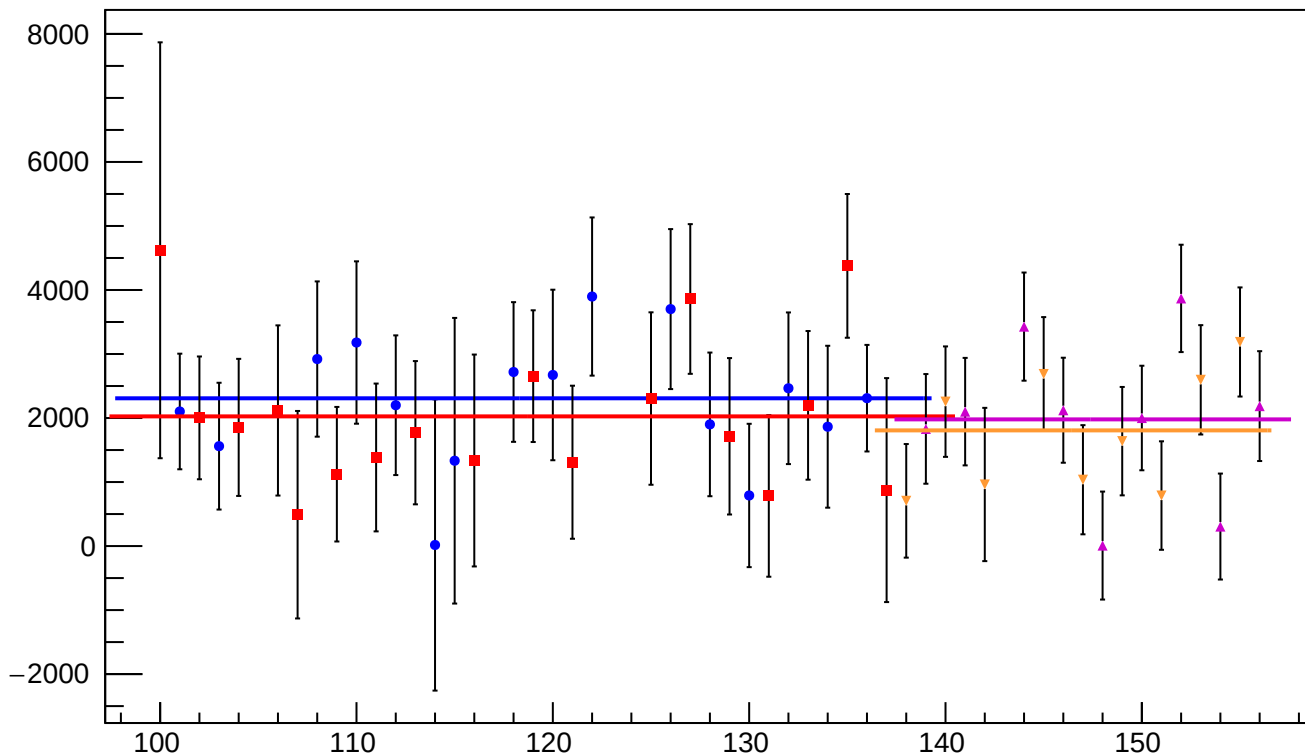


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431

Left Out: 1806.968+/-295.048

Right Out: 2025.627+/-289.797

Left In: 1978.781+/-279.326

χ^2/NDF : 7.8/15

χ^2/NDF : 9.1/8

χ^2/NDF : 11.9/17

χ^2/NDF : 17.7/8

Left: 1897.574+/-202.844

Right: 2166.582+/-205.141

In: 2137.050+/-201.325

Out: 1918.260+/-206.749

χ^2/NDF : 27.0/17

χ^2/NDF : 20.2/33

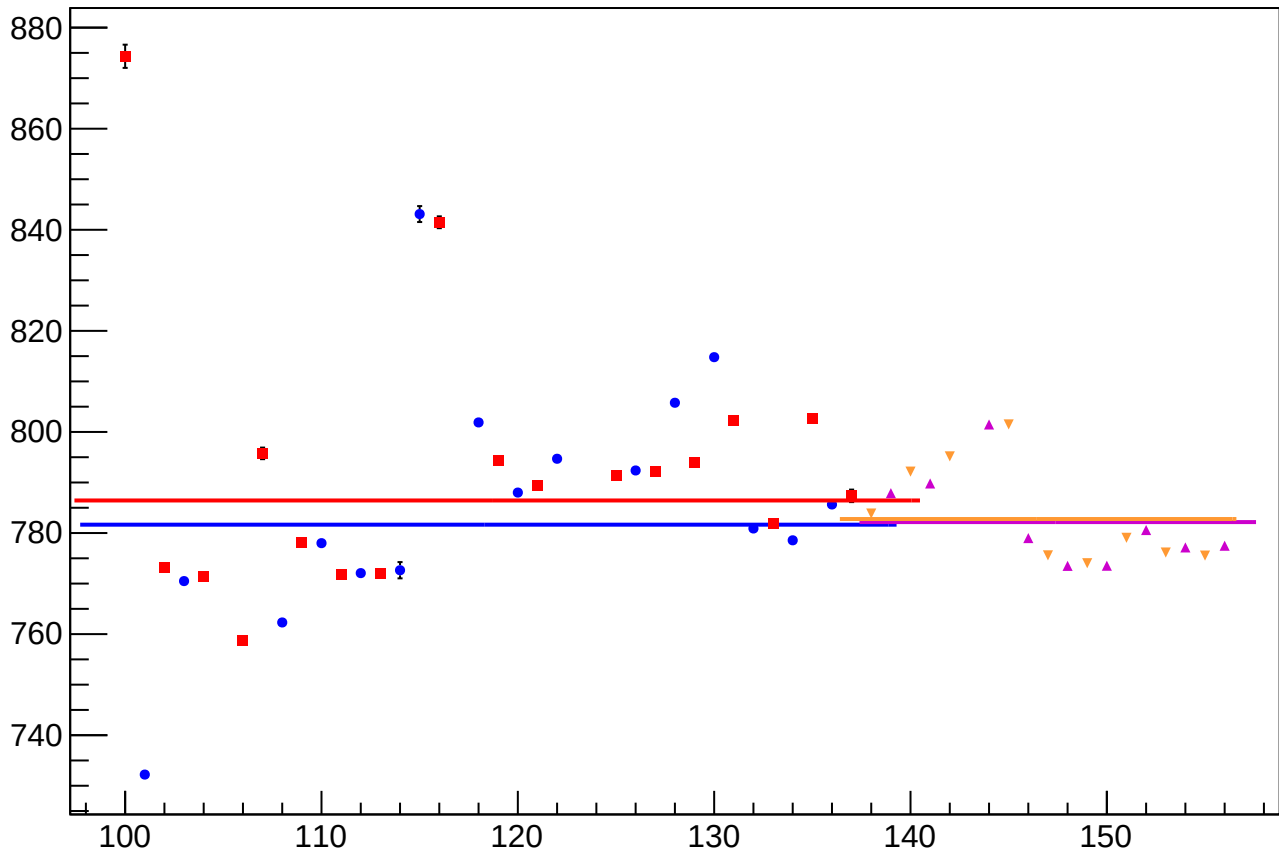
χ^2/NDF : 26.2/24

χ^2/NDF : 21.3/26

All: 2030.563+/-144.238

χ^2/NDF : 48.1/51

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 ± 0.205 $\chi^2/\text{NDF}: 12319.0/15$

Left Out: 782.771 ± 0.209 $\chi^2/\text{NDF}: 1998.7/8$

Right Out: 786.443 ± 0.205 $\chi^2/\text{NDF}: 7201.6/17$

Left In: 782.166 ± 0.198 $\chi^2/\text{NDF}: 1904.7/8$

Left: 782.452 ± 0.143 $\chi^2/\text{NDF}: 3907.9/17$

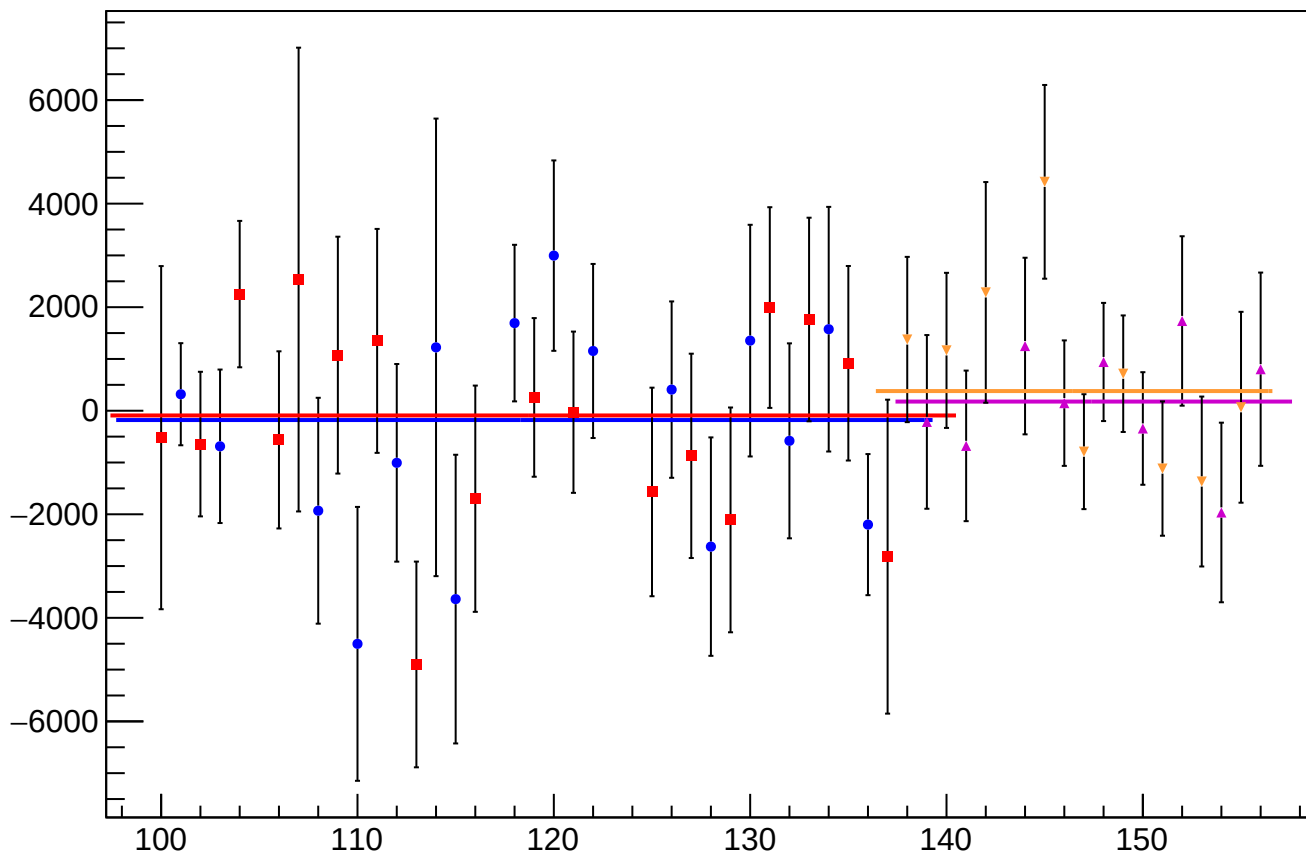
Right: 784.054 ± 0.145 $\chi^2/\text{NDF}: 19793.2/33$

In: 781.920 ± 0.142 $\chi^2/\text{NDF}: 14227.0/24$

Out: 784.640 ± 0.146 $\chi^2/\text{NDF}: 9358.0/26$

All: 783.244 ± 0.102 $\chi^2/\text{NDF}: 23762.7/51$

asym_us_avg_reg_correction_mean vs Slug, Sign Corrected



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

Left Out: 379.621+/-487.645 χ^2/NDF : 9.8/8

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

Left In: 176.962+/-473.515 χ^2/NDF : 4.0/8

Left: 275.313+/-339.711 χ^2/NDF : 13.9/17

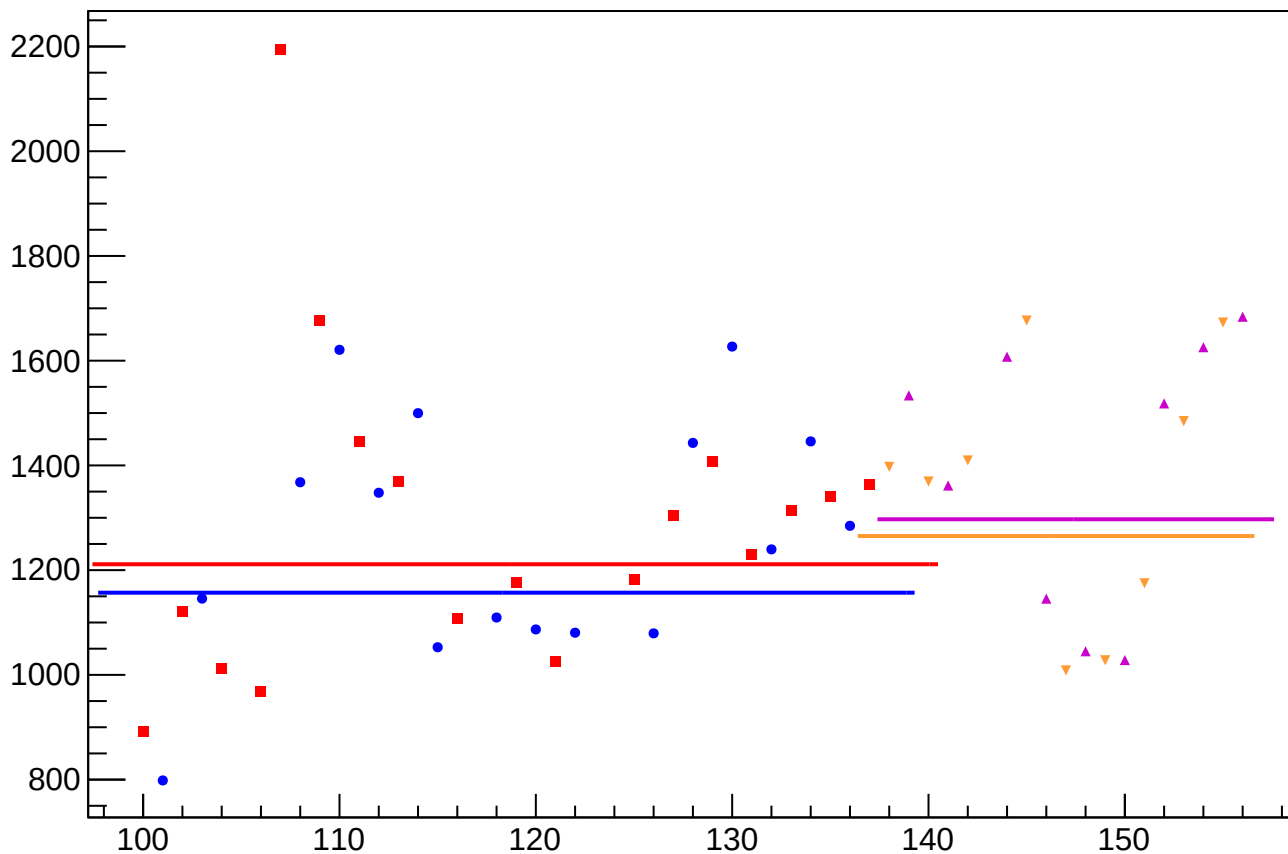
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -14.248+/-322.628 χ^2/NDF : 19.7/24

Out: 127.781+/-332.602 χ^2/NDF : 25.5/26

All: 54.605+/-231.578 χ^2/NDF : 45.3/51

asym_us_avg_reg_correction_rms vs Slug, Sign Corrected



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

Left Out: 1265.102 $\pm$ 0.345 χ^2 /NDF: 468494.3/8

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

Left In: 1297.133 $\pm$ 0.335 χ^2 /NDF: 555324.4/8

Left: 1281.588 $\pm$ 0.240 χ^2 /NDF: 1028260.1/17

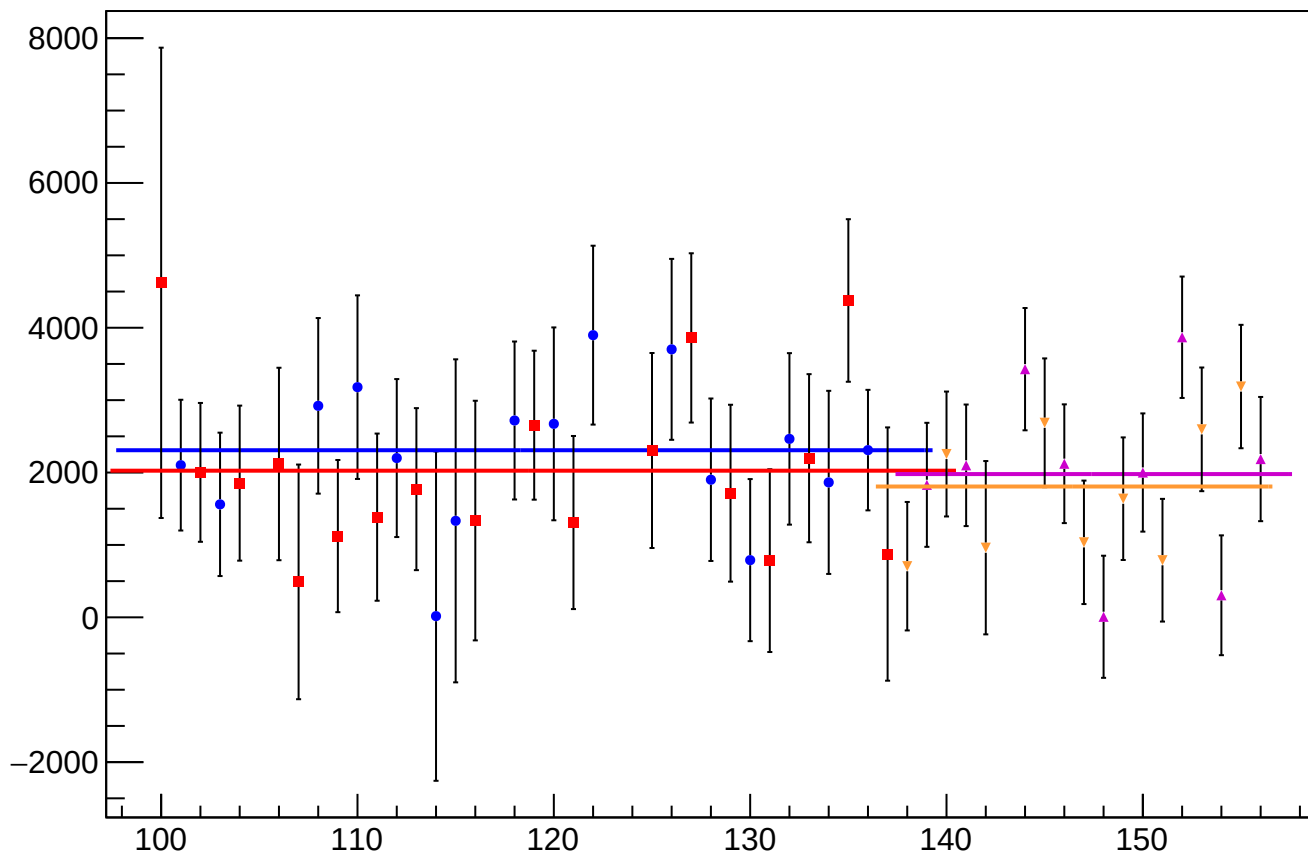
Right: 1183.255 $\pm$ 0.224 χ^2 /NDF: 981543.7/33

In: 1222.027 $\pm$ 0.228 χ^2 /NDF: 1218360.9/24

Out: 1236.309 $\pm$ 0.235 χ^2 /NDF: 879246.1/26

All: 1228.951 $\pm$ 0.164 χ^2 /NDF: 2099507.1/51

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1806.968+/-295.048 χ^2/NDF : 9.1/8

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

Left In: 1978.781+/-279.326 χ^2/NDF : 17.7/8

Left: 1897.574+/-202.844 χ^2/NDF : 27.0/17

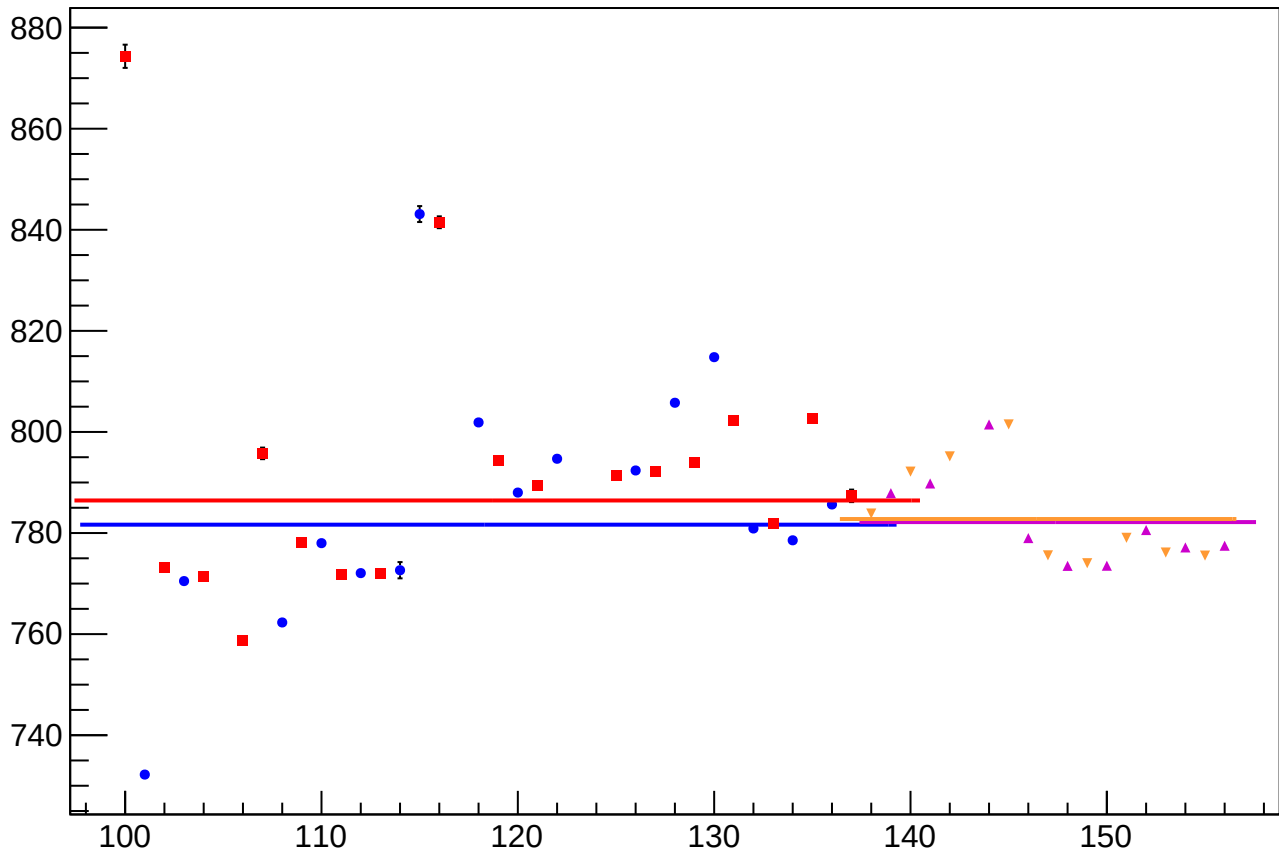
Right: 2166.582+/-205.141 χ^2/NDF : 20.2/33

In: 2137.050+/-201.325 χ^2/NDF : 26.2/24

Out: 1918.260+/-206.749 χ^2/NDF : 21.3/26

All: 2030.563+/-144.238 χ^2/NDF : 48.1/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

Left Out: 782.771 $\pm$ 0.209 χ^2 /NDF:1998.7/8

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

Left In: 782.166 $\pm$ 0.198 χ^2 /NDF:1904.7/8

Left: 782.452 $\pm$ 0.143 χ^2 /NDF: 3907.9/17

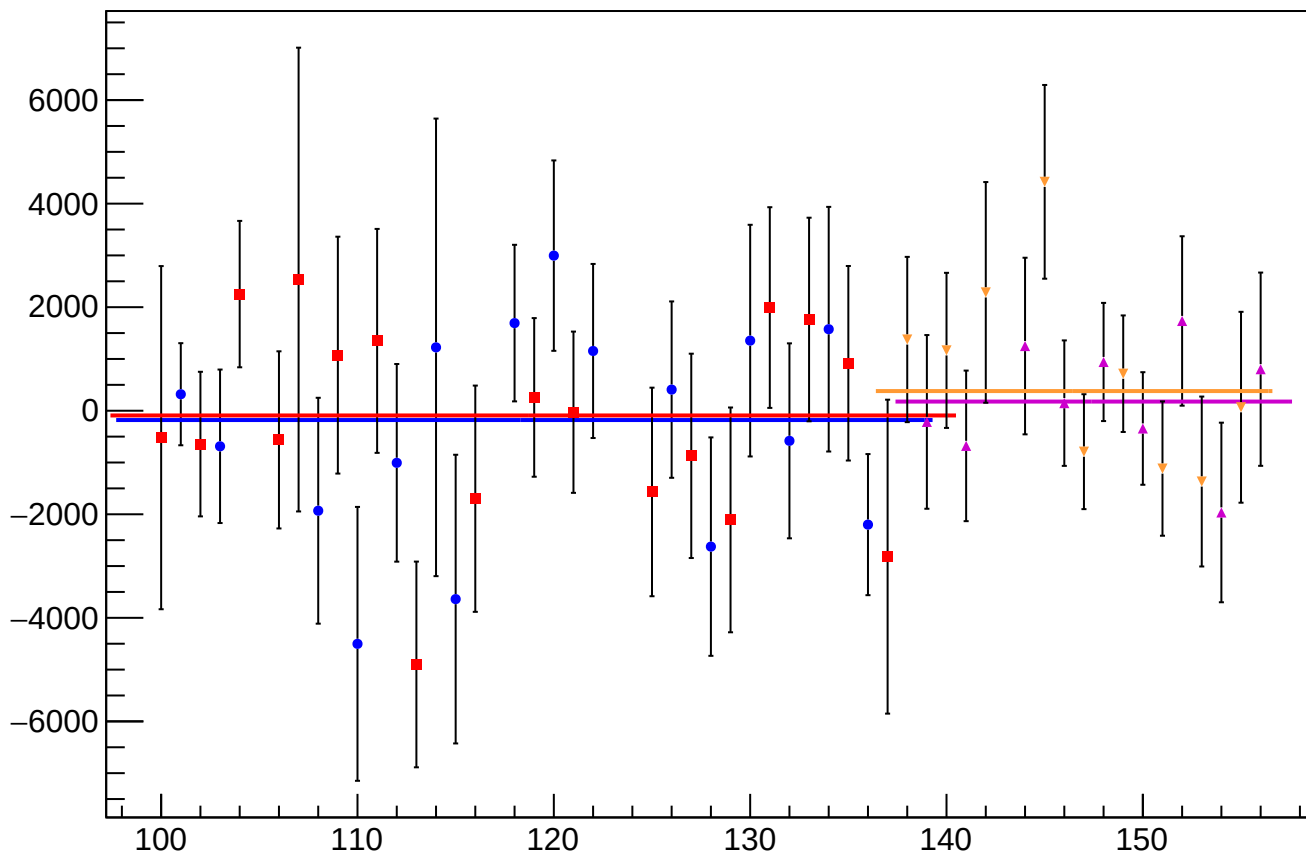
Right: 784.054 $\pm$ 0.145 χ^2 /NDF: 19793.2/33

In: 781.920 $\pm$ 0.142 χ^2 /NDF:14227.0/24

Out: 784.640 $\pm$ 0.146 χ^2 /NDF:9358.0/26

All: 783.244 $\pm$ 0.102 χ^2 /NDF: 23762.7/51

asym_us_avg_cor_correction_mean vs Slug, Sign Corrected



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

Left Out: 379.621+/-487.645 χ^2/NDF : 9.8/8

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

Left In: 176.962+/-473.515 χ^2/NDF : 4.0/8

Left: 275.313+/-339.711 χ^2/NDF : 13.9/17

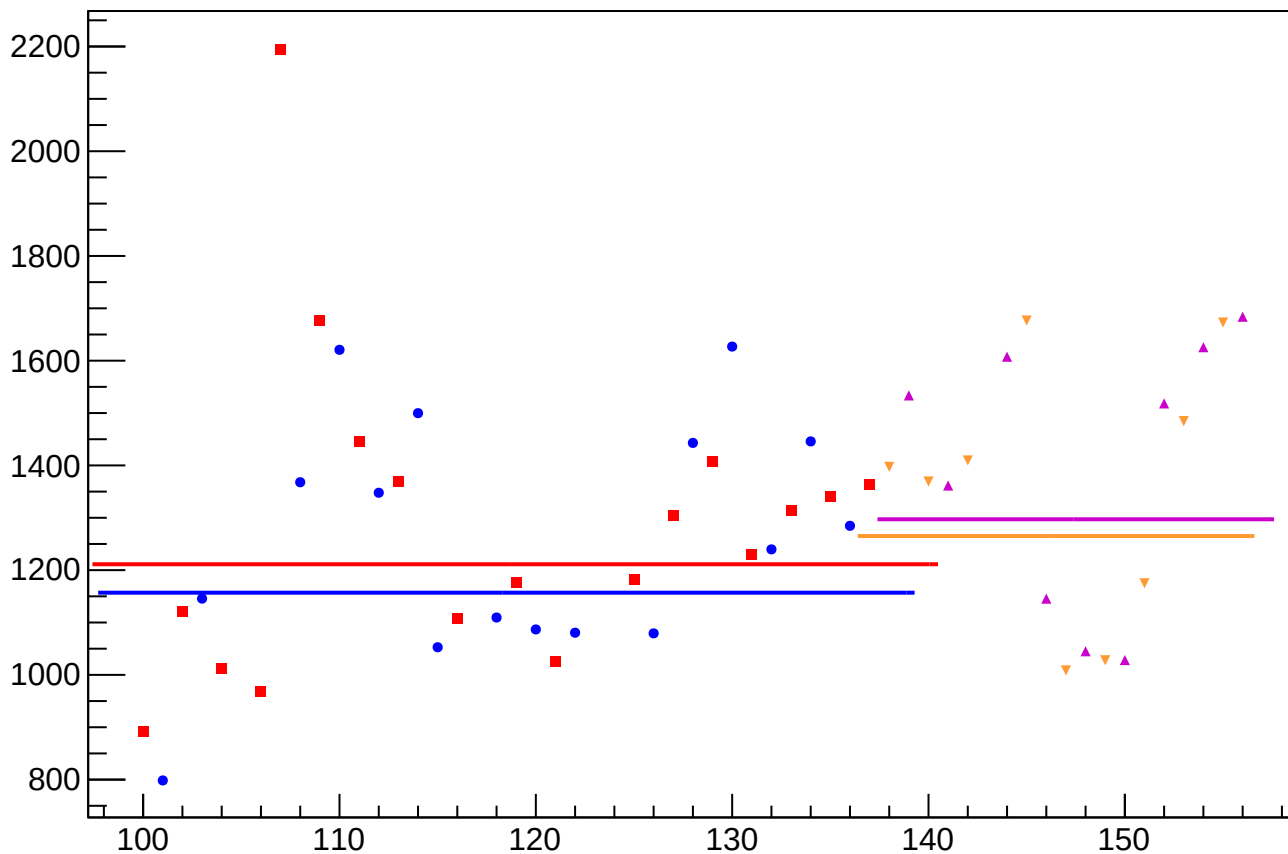
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -14.248+/-322.628 χ^2/NDF : 19.7/24

Out: 127.781+/-332.602 χ^2/NDF : 25.5/26

All: 54.605+/-231.578 χ^2/NDF : 45.3/51

asym_us_avg_cor_correction_rms vs Slug, Sign Corrected



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

Left Out: 1265.102+/-0.345 χ^2/NDF : 468494.3/8

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

Left In: 1297.133+/-0.335 χ^2/NDF : 555324.4/8

Left: 1281.588+/-0.240 χ^2/NDF : 1028260.1/17

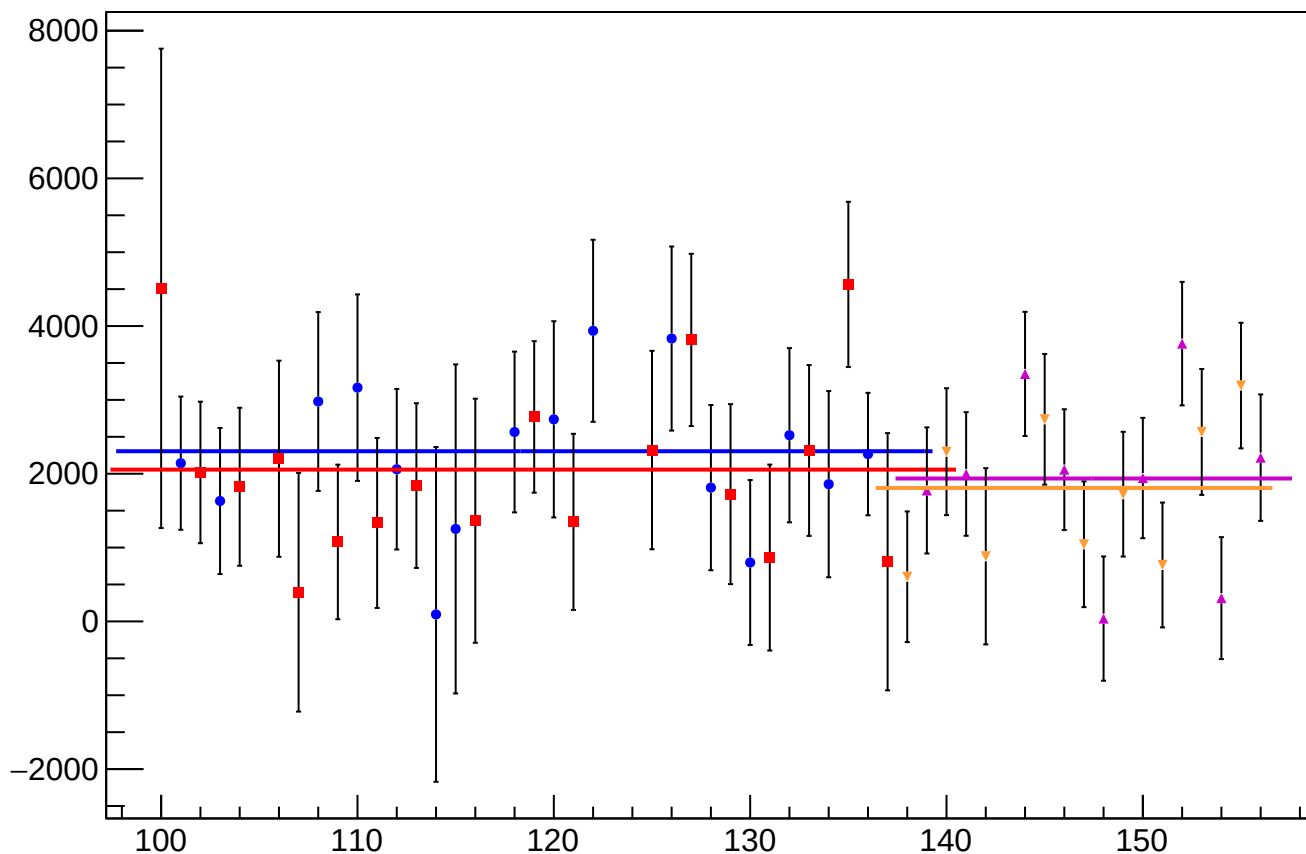
Right: 1183.255+/-0.224 χ^2/NDF : 981543.7/33

In: 1222.027+/-0.228 χ^2/NDF : 1218360.9/24

Out: 1236.309+/-0.235 χ^2/NDF : 879246.1/26

All: 1228.951+/-0.164 χ^2/NDF : 2099507.1/51

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: 1807.024 $\pm$ 294.216 χ^2 /NDF:9.7/8

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

Left In: 1935.369 $\pm$ 278.588 χ^2 /NDF:16.7/8

Left: 1874.695 $\pm$ 202.291 χ^2 /NDF: 26.5/17

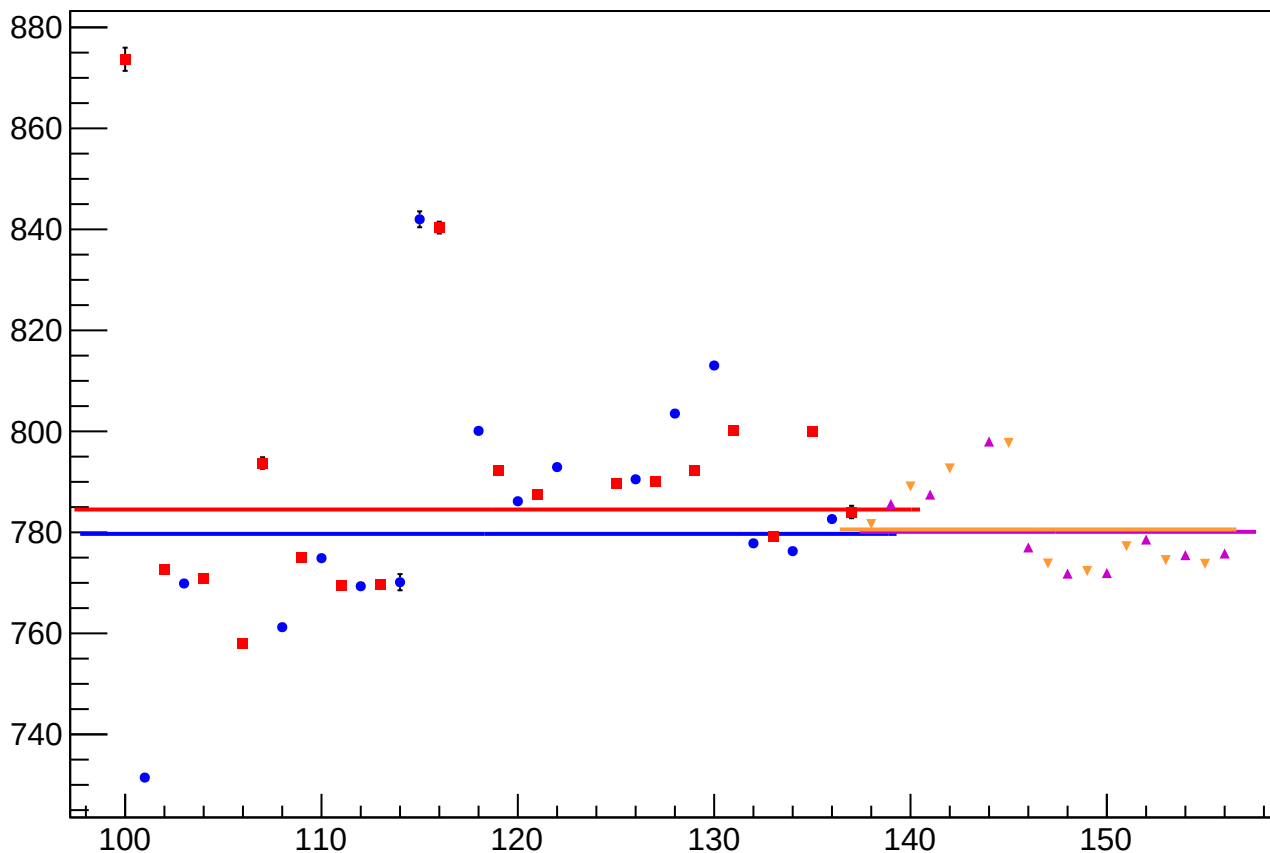
Right: 2179.995 $\pm$ 204.634 χ^2 /NDF: 21.3/33

In: 2112.886 $\pm$ 200.806 χ^2 /NDF:25.6/24

Out: 1933.530 $\pm$ 206.206 χ^2 /NDF:22.9/26

All: 2025.587 $\pm$ 143.862 χ^2 /NDF: 48.9/51

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: 780.573 $\pm$ 0.208 χ^2 /NDF:1729.9/8

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

Left In: 780.108 $\pm$ 0.197 χ^2 /NDF:1683.9/8

Left: 780.328 $\pm$ 0.143 χ^2 /NDF: 3416.5/17

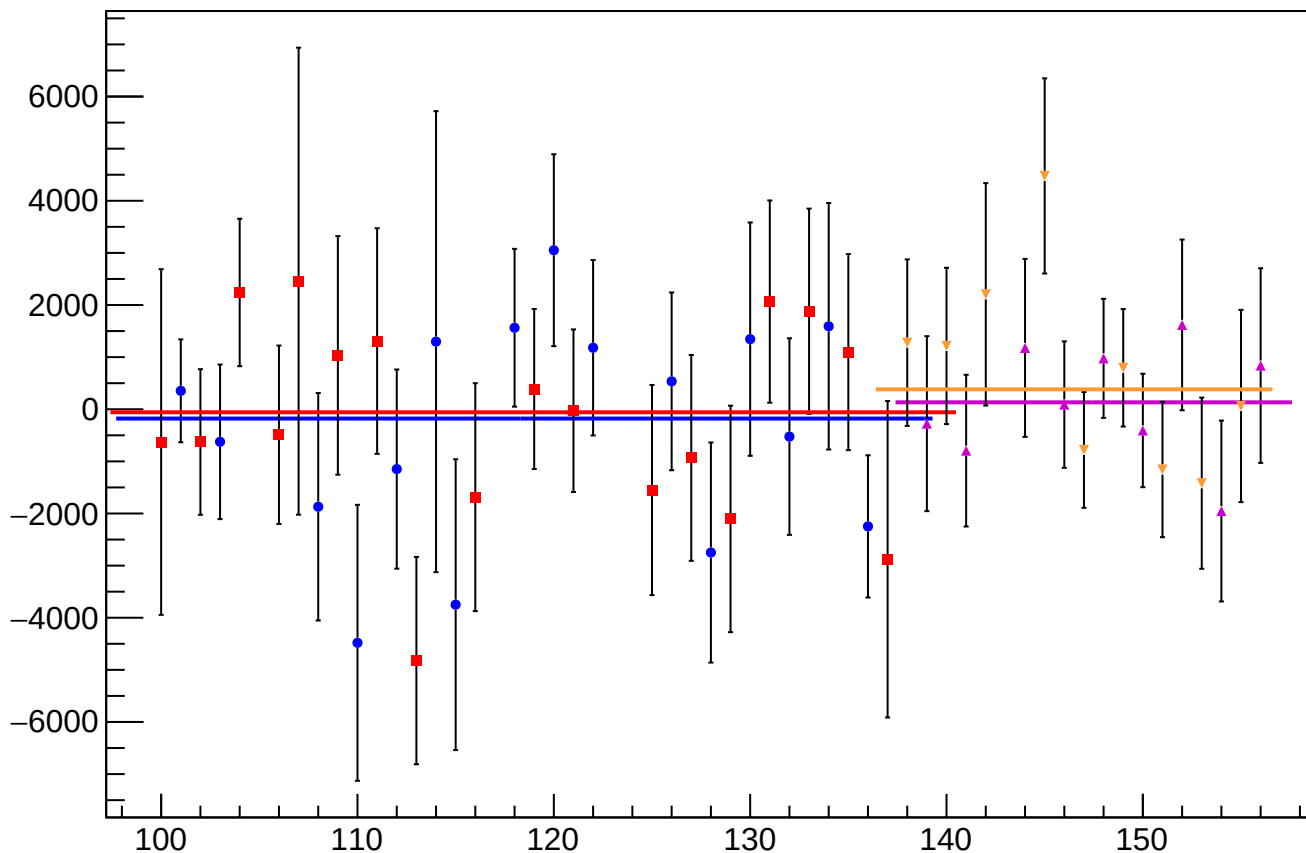
Right: 782.118 $\pm$ 0.145 χ^2 /NDF: 19498.0/33

In: 779.913 $\pm$ 0.142 χ^2 /NDF:13746.2/24

Out: 782.584 $\pm$ 0.146 χ^2 /NDF:9073.5/26

All: 781.213 $\pm$ 0.102 χ^2 /NDF: 22991.9/51

asym_us_avg_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -178.457 $\pm$ 441.218 χ^2 /NDF: 15.7/15

Left Out: 381.918 $\pm$ 488.168 χ^2 /NDF:10.0/8

Right Out: -58.040 $\pm$ 455.216 χ^2 /NDF: 15.3/17

Left In: 133.119 $\pm$ 473.972 χ^2 /NDF:4.0/8

Left: 253.848 $\pm$ 340.057 χ^2 /NDF: 14.2/17

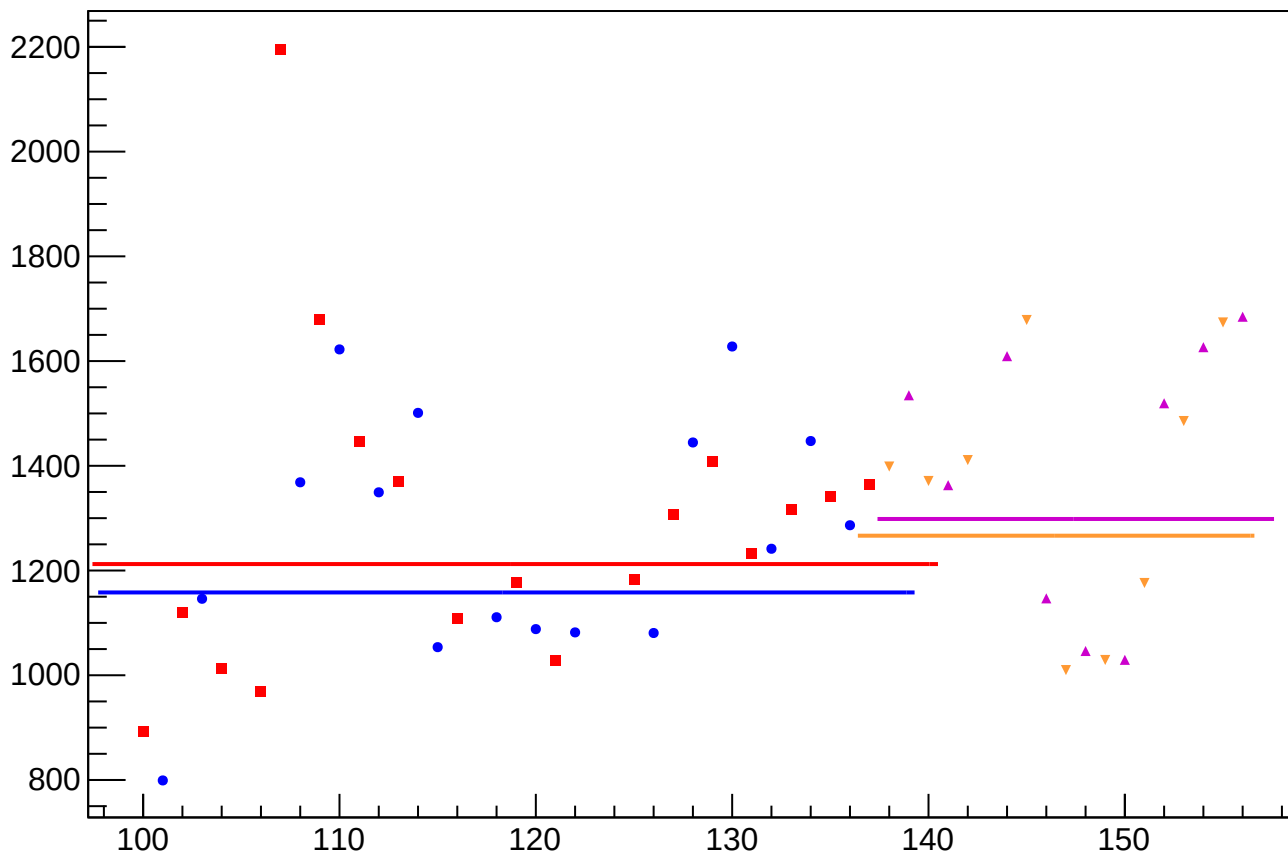
Right: -120.128 $\pm$ 316.821 χ^2 /NDF: 31.0/33

In: -33.806 $\pm$ 322.947 χ^2 /NDF:20.0/24

Out: 146.591 $\pm$ 332.927 χ^2 /NDF:25.7/26

All: 53.648 $\pm$ 231.806 χ^2 /NDF: 45.8/51

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: 1266.525 ± 0.345 χ^2/NDF : 467453.0/8

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

Left In: 1298.448 ± 0.335 χ^2/NDF : 554091.1/8

Left: 1282.957 ± 0.240 χ^2/NDF : 1025946.5/17

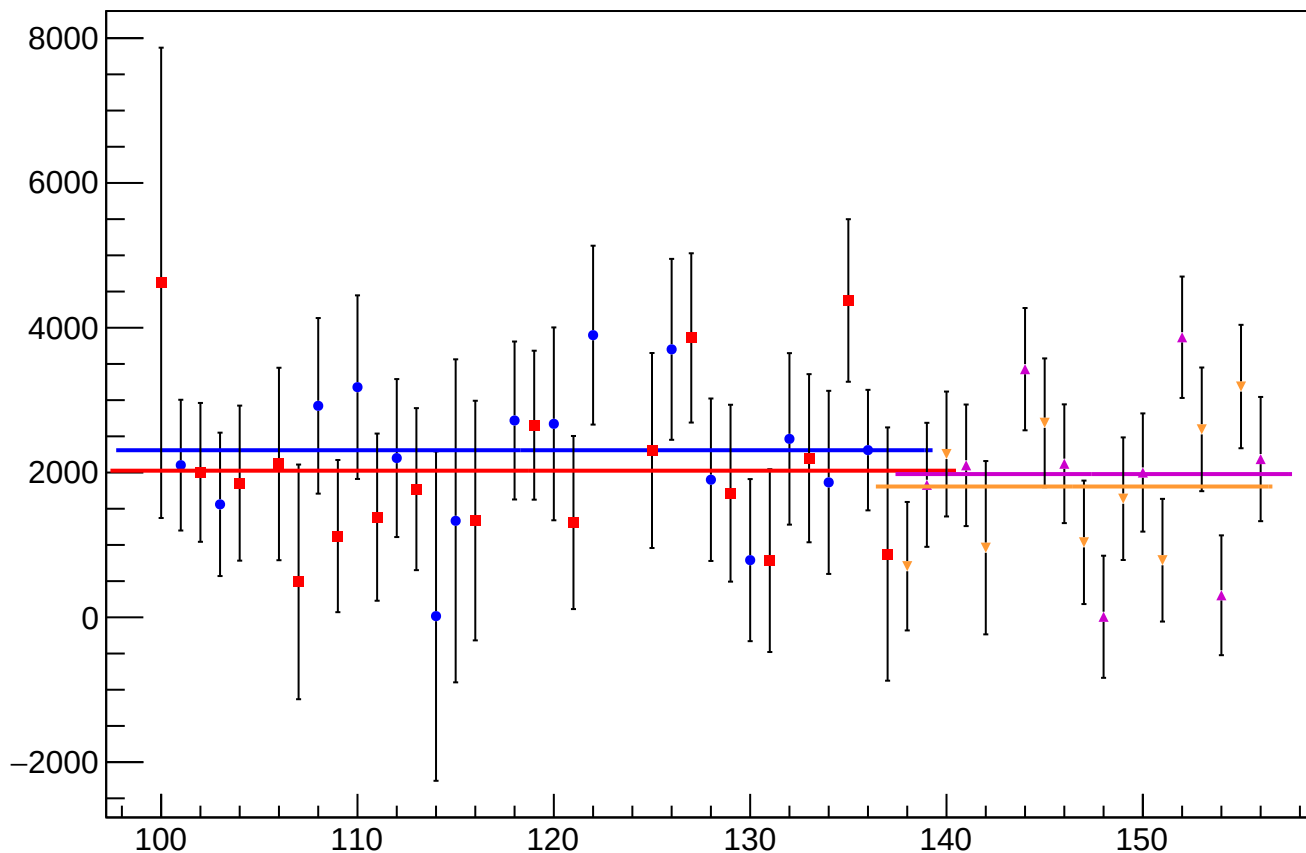
Right: 1184.394 ± 0.224 χ^2/NDF : 981708.9/33

In: 1223.275 ± 0.228 χ^2/NDF : 1217140.3/24

Out: 1237.546 ± 0.235 χ^2/NDF : 878567.7/26

All: 1230.193 ± 0.164 χ^2/NDF : 2097601.2/51

eigen_cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1806.968+/-295.048 χ^2/NDF : 9.1/8

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

Left In: 1978.781+/-279.326 χ^2/NDF : 17.7/8

Left: 1897.574+/-202.844 χ^2/NDF : 27.0/17

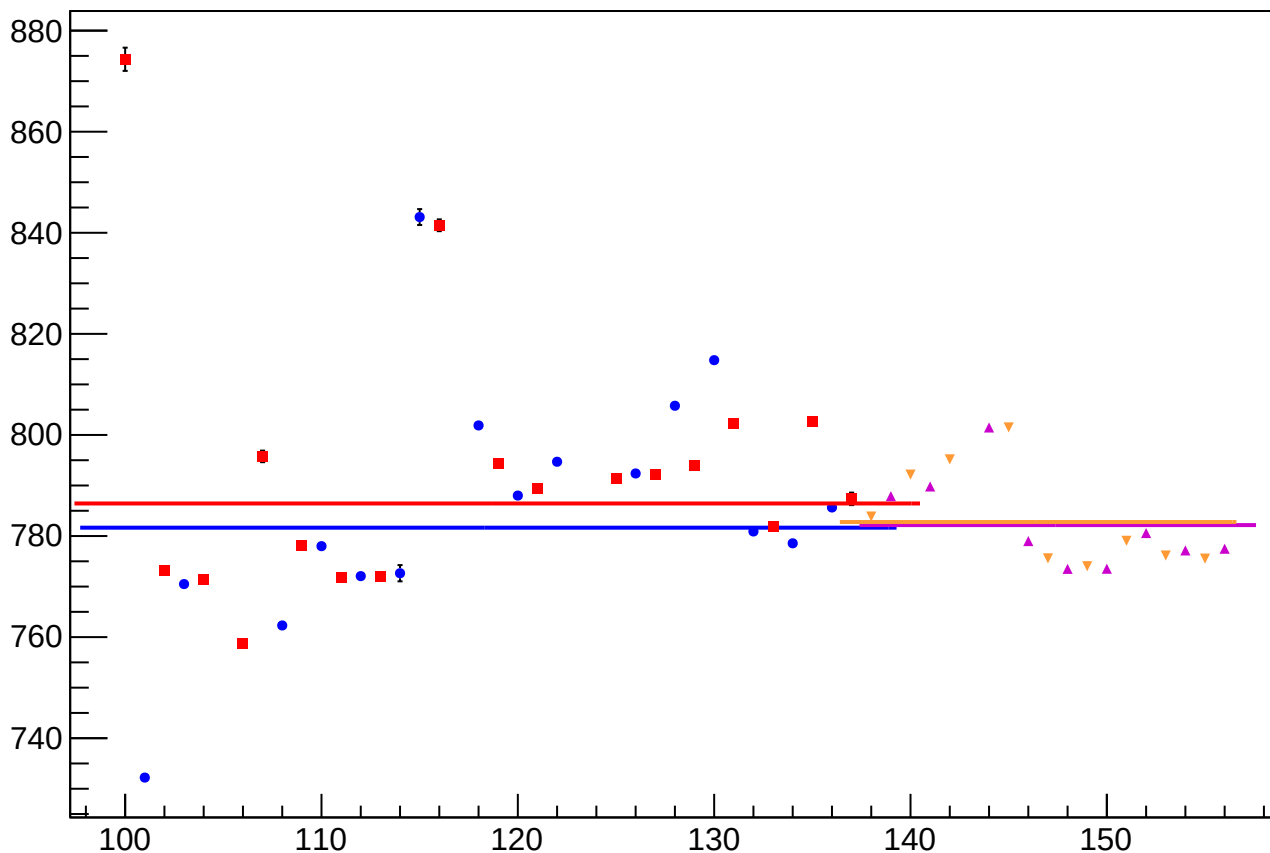
Right: 2166.582+/-205.141 χ^2/NDF : 20.2/33

In: 2137.050+/-201.325 χ^2/NDF : 26.2/24

Out: 1918.260+/-206.749 χ^2/NDF : 21.3/26

All: 2030.563+/-144.238 χ^2/NDF : 48.1/51

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: 782.771 $\pm$ 0.209 χ^2/NDF :1998.7/8

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

Left In: 782.166 $\pm$ 0.198 χ^2/NDF :1904.7/8

Left: 782.452 $\pm$ 0.143 χ^2/NDF : 3907.9/17

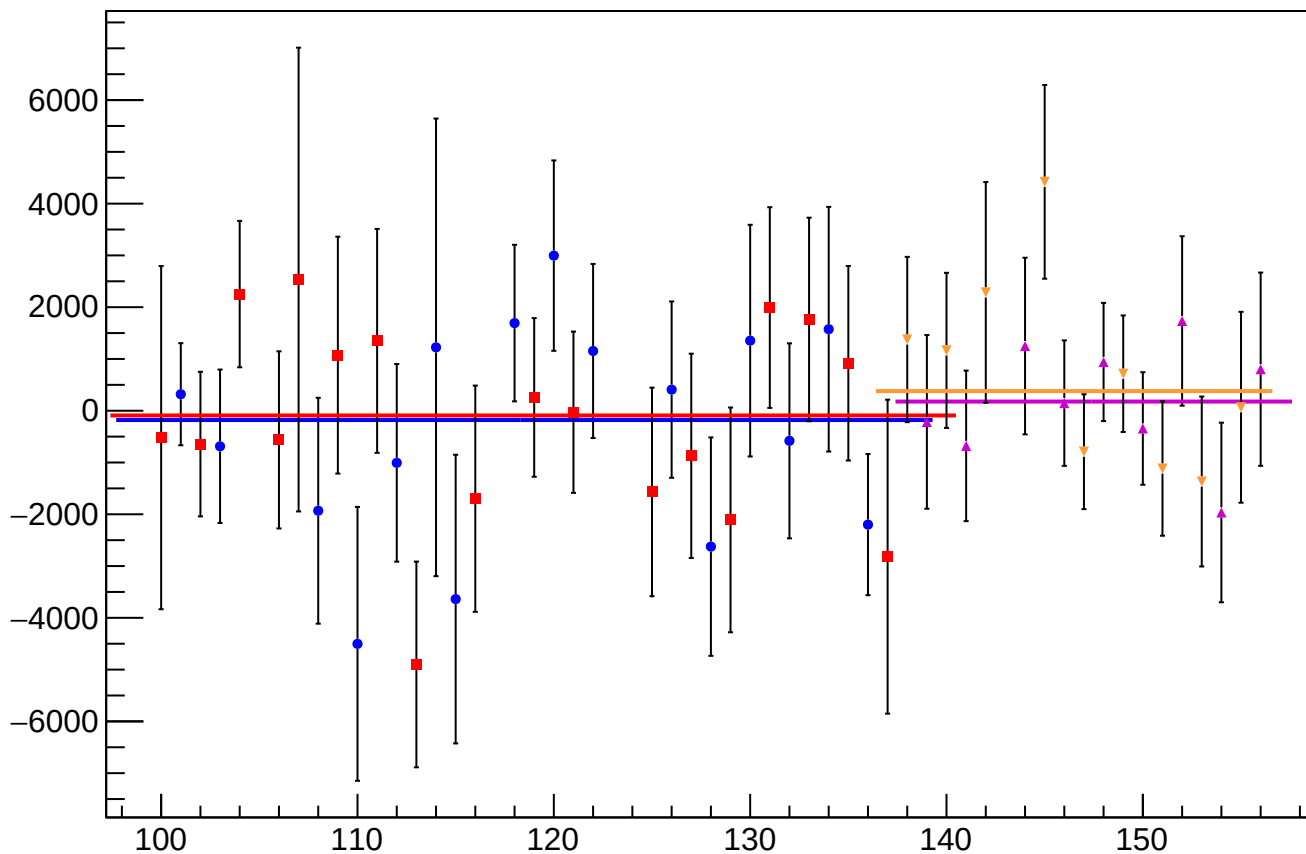
Right: 784.054 $\pm$ 0.145 χ^2/NDF : 19793.2/33

In: 781.920 $\pm$ 0.142 χ^2/NDF :14227.0/24

Out: 784.640 $\pm$ 0.146 χ^2/NDF :9358.0/26

All: 783.244 $\pm$ 0.102 χ^2/NDF : 23762.7/51

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: 379.621+/-487.645 χ^2/NDF : 9.8/8

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

Left In: 176.962+/-473.515 χ^2/NDF : 4.0/8

Left: 275.313+/-339.711 χ^2/NDF : 13.9/17

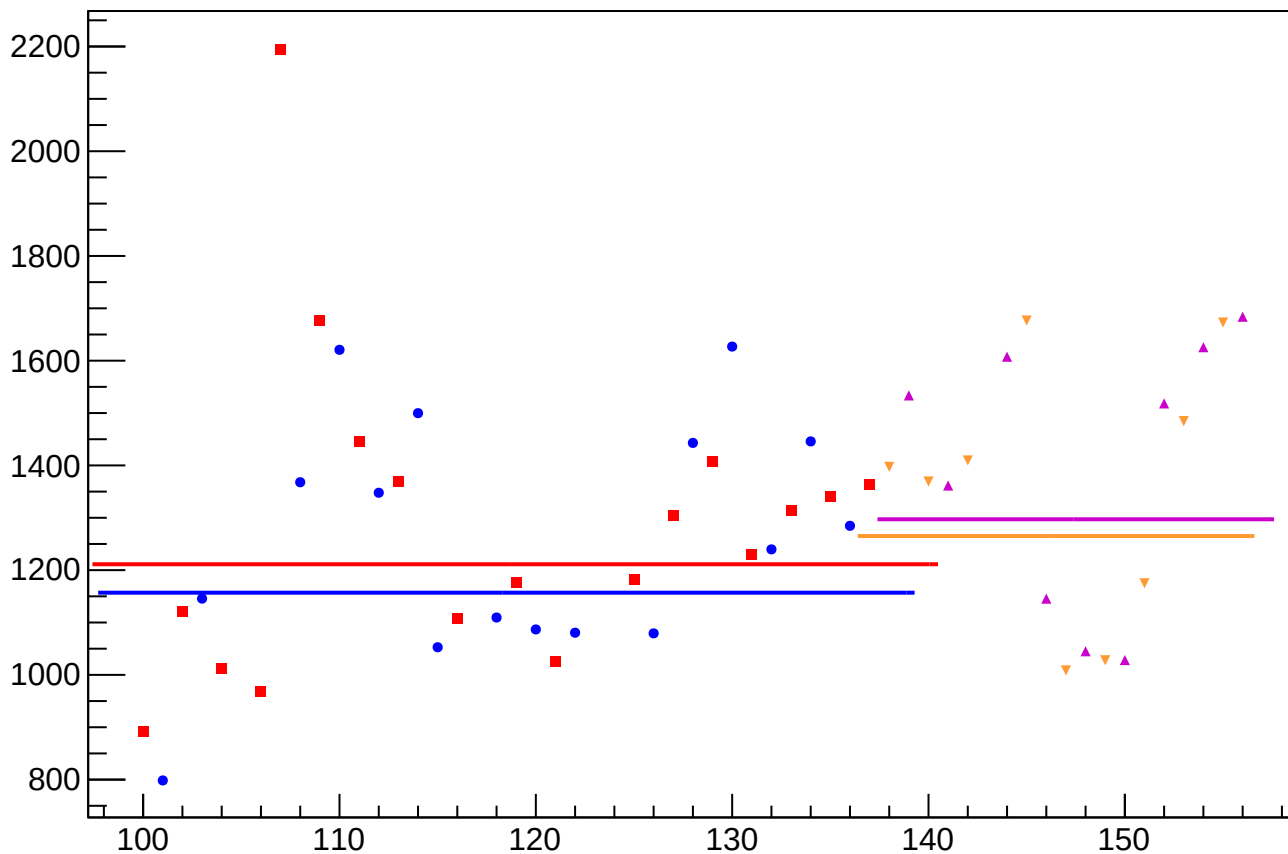
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -14.248+/-322.628 χ^2/NDF : 19.7/24

Out: 127.781+/-332.602 χ^2/NDF : 25.5/26

All: 54.605+/-231.578 χ^2/NDF : 45.3/51

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: 1265.102+/-0.345 χ^2/NDF : 468494.3/8

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

Left In: 1297.133+/-0.335 χ^2/NDF : 555324.4/8

Left: 1281.588+/-0.240 χ^2/NDF : 1028260.1/17

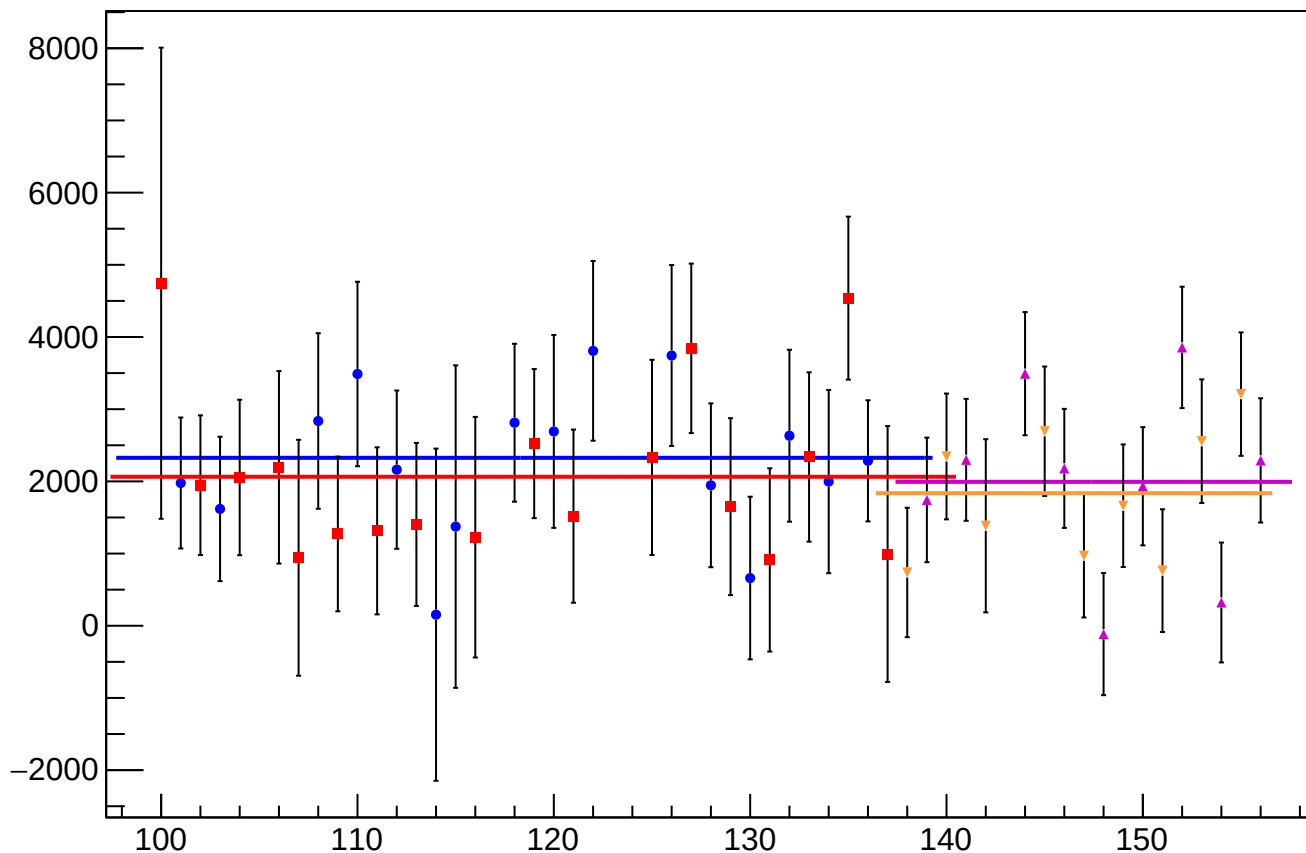
Right: 1183.255+/-0.224 χ^2/NDF : 981543.7/33

In: 1222.027+/-0.228 χ^2/NDF : 1218360.9/24

Out: 1236.309+/-0.235 χ^2/NDF : 879246.1/26

All: 1228.951+/-0.164 χ^2/NDF : 2099507.1/51

dit_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1836.765 ± 296.541 χ^2/NDF : 8.8/8

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

Left In: 1993.354 ± 280.660 χ^2/NDF : 18.7/8

Left: 1919.364 ± 203.840 χ^2/NDF : 27.6/17

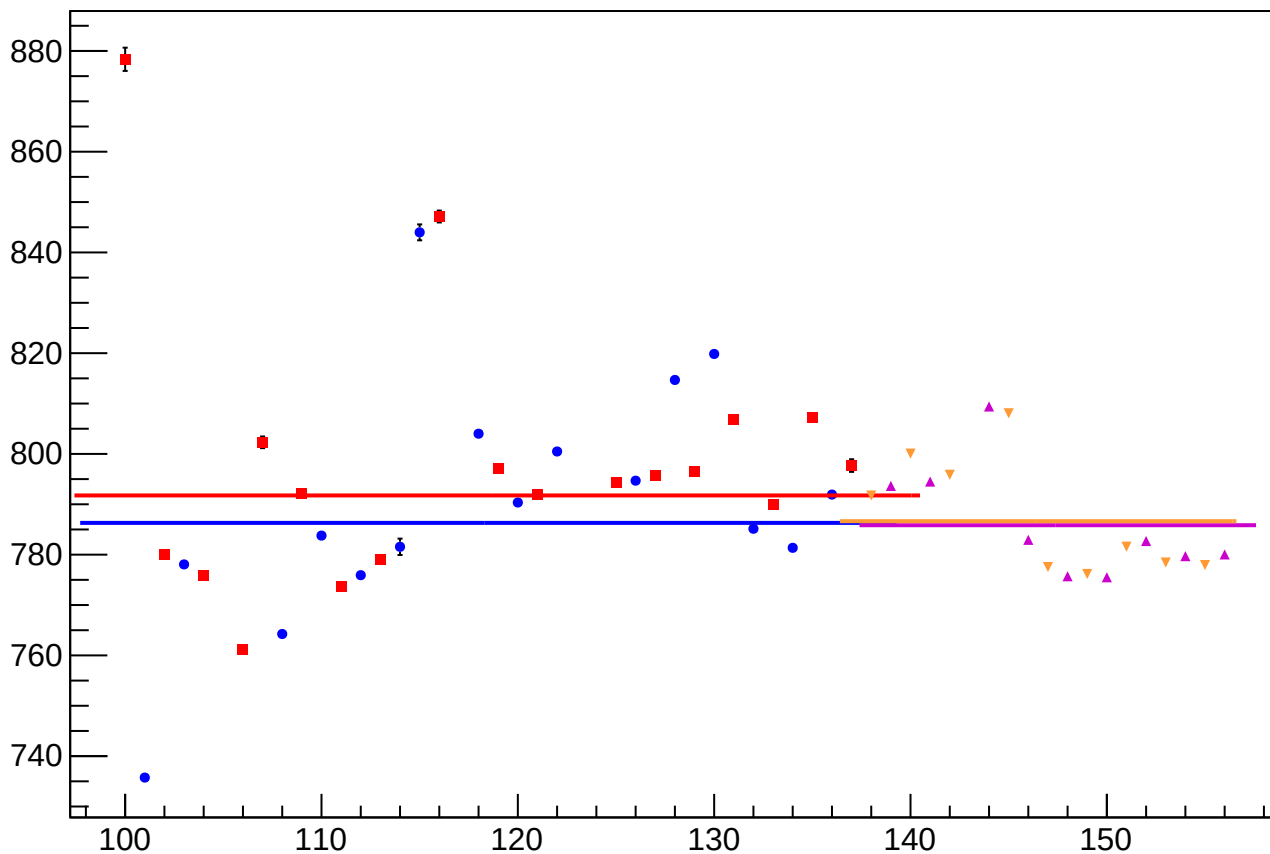
Right: 2195.030 ± 206.463 χ^2/NDF : 20.2/33

In: 2153.199 ± 202.405 χ^2/NDF : 27.5/24

Out: 1952.205 ± 207.986 χ^2/NDF : 20.8/26

All: 2055.435 ± 145.055 χ^2/NDF : 48.7/51

dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 ± 0.207 $\chi^2/\text{NDF}: 12571.1/15$

Left Out: 786.643 ± 0.210 $\chi^2/\text{NDF}: 2791.4/8$

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

Left In: 785.845 ± 0.198 $\chi^2/\text{NDF}: 2760.0/8$

Left: 786.222 ± 0.144 $\chi^2/\text{NDF}: 5559.0/17$

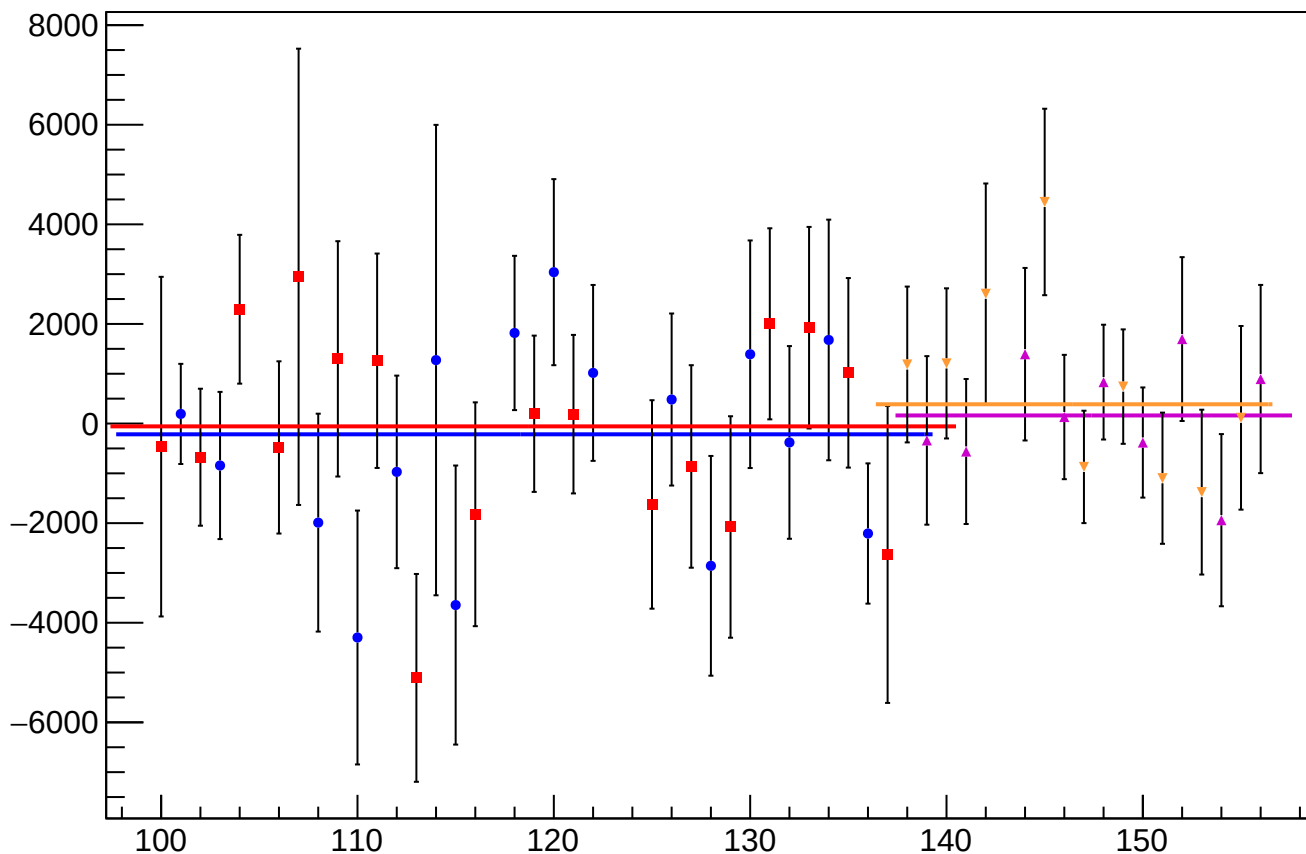
Right: 789.036 ± 0.146 $\chi^2/\text{NDF}: 19934.2/33$

In: 786.068 ± 0.143 $\chi^2/\text{NDF}: 15333.8/24$

Out: 789.241 ± 0.147 $\chi^2/\text{NDF}: 10108.6/26$

All: 787.611 ± 0.103 $\chi^2/\text{NDF}: 25681.4/51$

asym_us_avg_dit_correction_mean vs Slug, Sign Corrected



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

Left Out: 386.943+/-492.892 χ^2/NDF : 10.0/8

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

Left In: 162.537+/-479.438 χ^2/NDF : 3.9/8

Left: 271.635+/-343.672 χ^2/NDF : 14.1/17

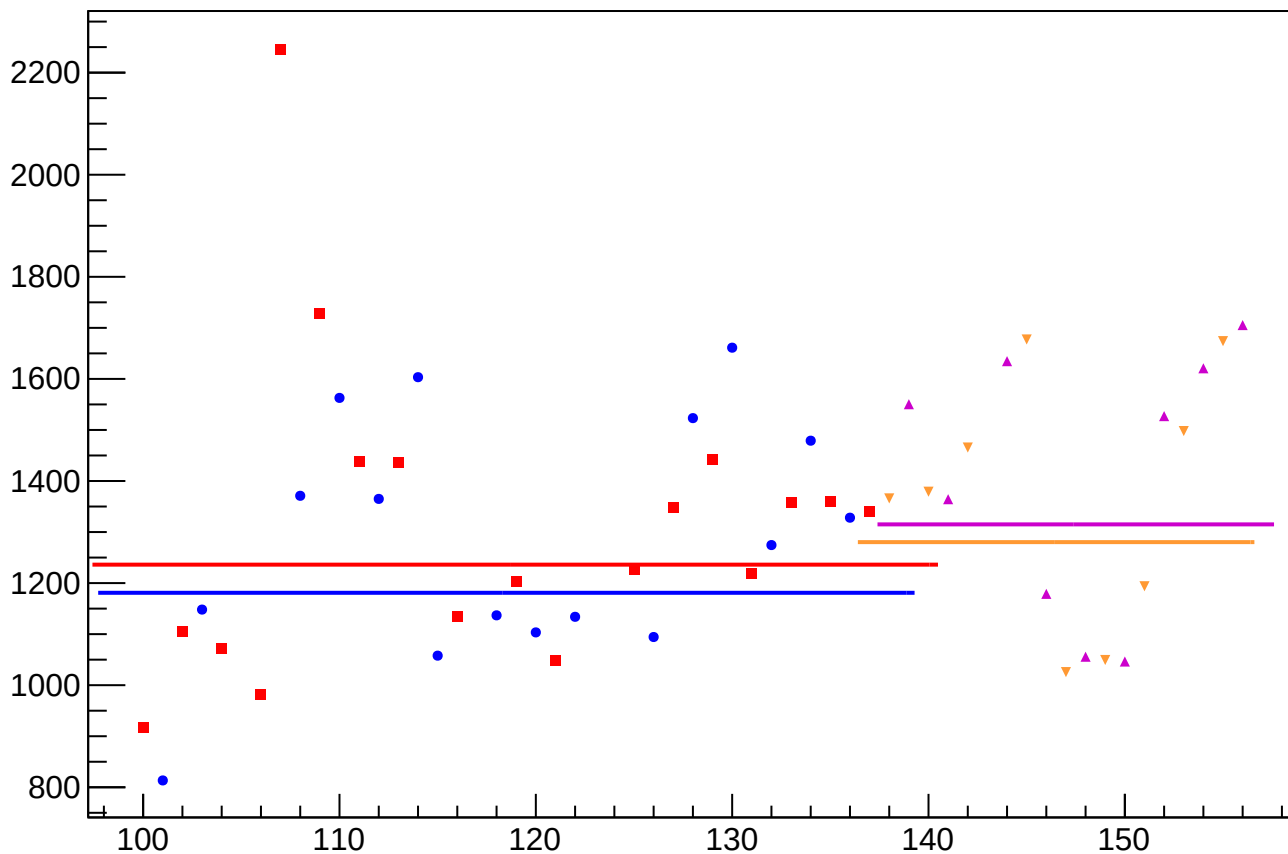
Right: -139.003+/-322.855 χ^2/NDF : 30.5/33

In: -39.001+/-327.932 χ^2/NDF : 19.5/24

Out: 151.683+/-337.842 χ^2/NDF : 25.6/26

All: 53.504+/-235.308 χ^2/NDF : 45.3/51

asym_us_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1180.998+/-0.318 χ^2/NDF : 571107.8/15

Left Out: 1280.264+/-0.349 χ^2/NDF : 435529.7/8

Right Out: 1236.134+/-0.328 χ^2/NDF : 397242.2/17

Left In: 1315.014+/-0.339 χ^2/NDF : 533293.9/8

Left: 1298.119+/-0.243 χ^2/NDF : 973931.8/17

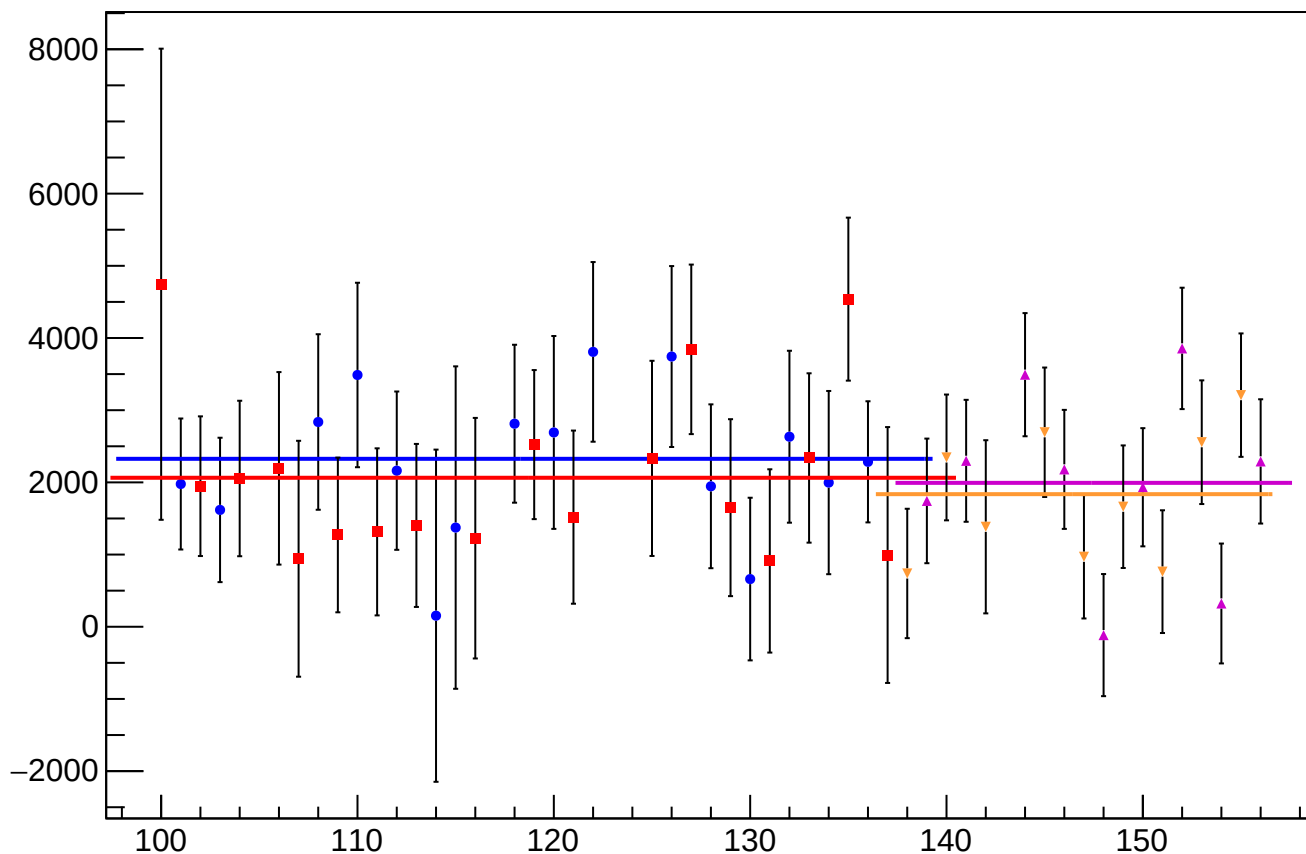
Right: 1207.695+/-0.228 χ^2/NDF : 982917.9/33

In: 1243.697+/-0.232 χ^2/NDF : 1187561.8/24

Out: 1256.867+/-0.239 χ^2/NDF : 841271.7/26

All: 1250.086+/-0.166 χ^2/NDF : 2030398.4/51

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: 1836.763 $\pm$ 296.541 χ^2 /NDF: 8.8/8

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

Left In: 1993.355 $\pm$ 280.660 χ^2 /NDF: 18.7/8

Left: 1919.364 $\pm$ 203.840 χ^2 /NDF: 27.6/17

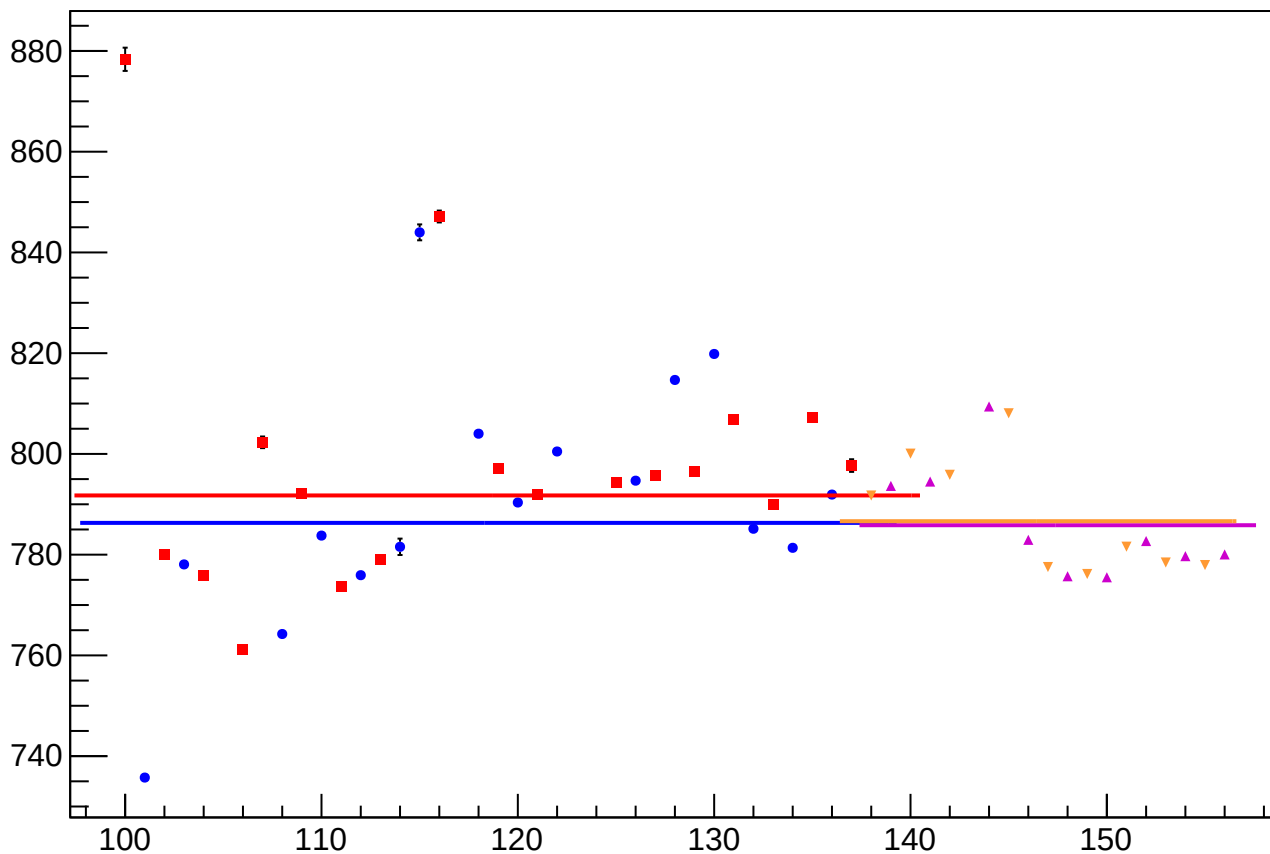
Right: 2195.029 $\pm$ 206.463 χ^2 /NDF: 20.2/33

In: 2153.199 $\pm$ 202.405 χ^2 /NDF: 27.5/24

Out: 1952.203 $\pm$ 207.986 χ^2 /NDF: 20.8/26

All: 2055.434 $\pm$ 145.055 χ^2 /NDF: 48.7/51

eigen_dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 $\pm$ 0.207 χ^2 /NDF: 12571.0/15

Left Out: 786.643 $\pm$ 0.210 χ^2 /NDF:2791.3/8

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

Left In: 785.845 $\pm$ 0.198 χ^2 /NDF:2760.0/8

Left: 786.222 $\pm$ 0.144 χ^2 /NDF: 5559.0/17

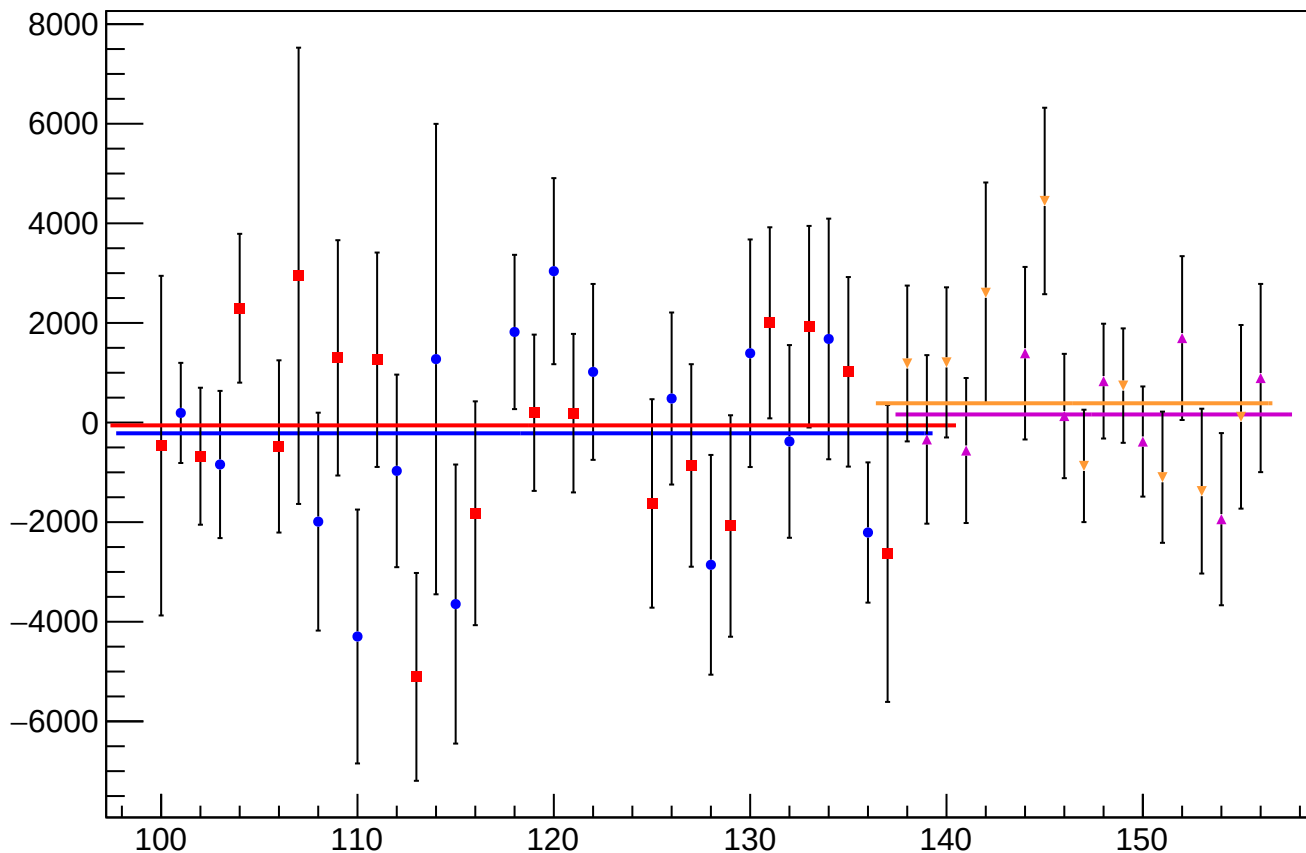
Right: 789.036 $\pm$ 0.146 χ^2 /NDF: 19934.1/33

In: 786.068 $\pm$ 0.143 χ^2 /NDF:15333.7/24

Out: 789.241 $\pm$ 0.147 χ^2 /NDF:10108.6/26

All: 787.611 $\pm$ 0.103 χ^2 /NDF: 25681.3/51

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: 386.939+/-492.893 χ^2/NDF : 10.0/8

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

Left In: 162.538+/-479.439 χ^2/NDF : 3.9/8

Left: 271.634+/-343.673 χ^2/NDF : 14.1/17

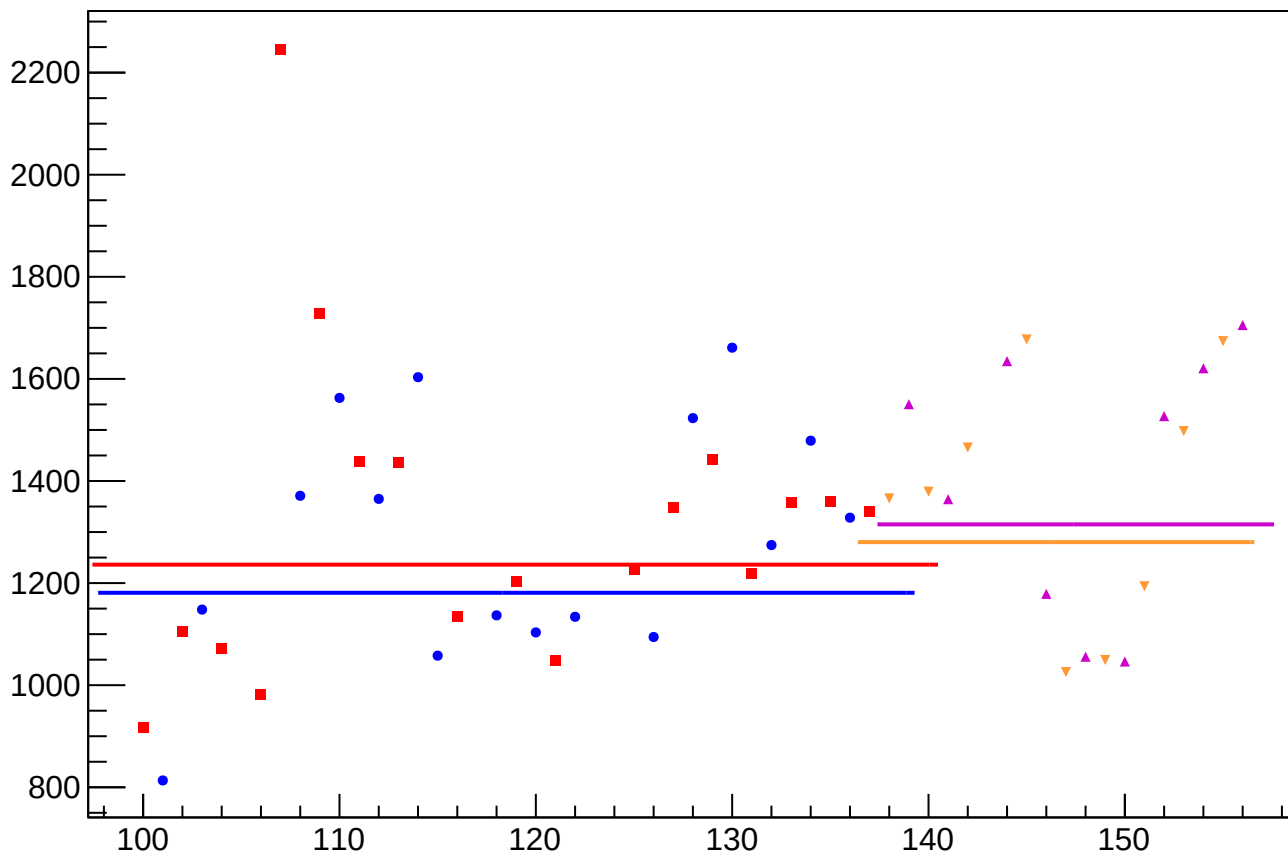
Right: -139.003+/-322.855 χ^2/NDF : 30.5/33

In: -39.001+/-327.932 χ^2/NDF : 19.5/24

Out: 151.681+/-337.842 χ^2/NDF : 25.6/26

All: 53.502+/-235.308 χ^2/NDF : 45.3/51

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: 1280.266+/-0.349 χ^2/NDF : 435531.6/8

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

Left In: 1315.016+/-0.339 χ^2/NDF : 533295.0/8

Left: 1298.122+/-0.243 χ^2/NDF : 973934.8/17

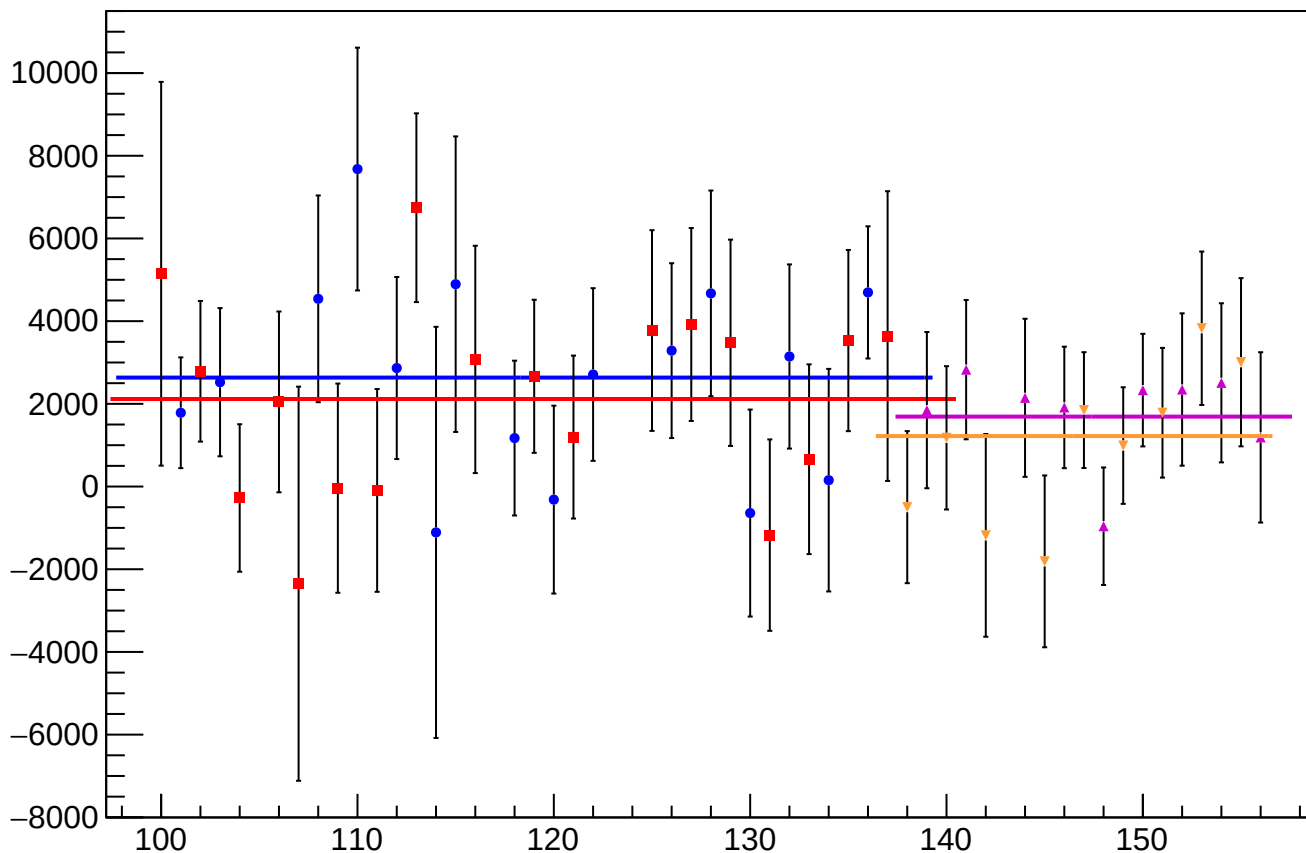
Right: 1207.692+/-0.228 χ^2/NDF : 982914.1/33

In: 1243.696+/-0.232 χ^2/NDF : 1187567.4/24

Out: 1256.866+/-0.239 χ^2/NDF : 841274.3/26

All: 1250.085+/-0.166 χ^2/NDF : 2030406.6/51

asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1220.425 $\pm$ 579.459 χ^2 /NDF: 7.1/8

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

Left In: 1691.354 $\pm$ 558.593 χ^2 /NDF: 4.6/8

Left: 1464.521 $\pm$ 402.159 χ^2 /NDF: 12.0/17

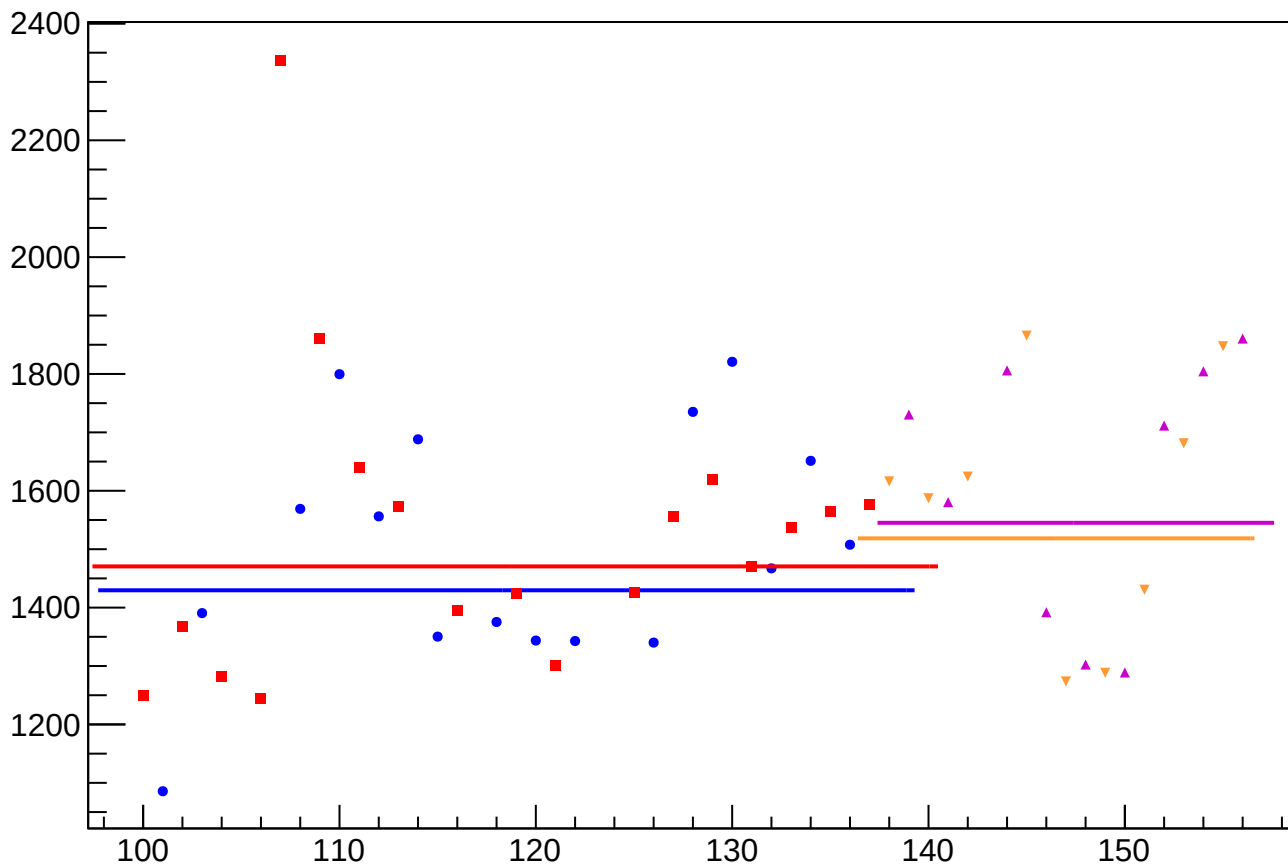
Right: 2380.790 $\pm$ 383.745 χ^2 /NDF: 26.4/33

In: 2181.067 $\pm$ 387.512 χ^2 /NDF: 18.3/24

Out: 1694.217 $\pm$ 397.953 χ^2 /NDF: 22.1/26

All: 1944.113 $\pm$ 277.630 χ^2 /NDF: 41.2/51

asym_us_avg_rms vs Slug, Sign Corrected



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

Left Out: 1518.558+/-0.410 χ^2/NDF : 256747.9/8

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

Left In: 1545.165+/-0.395 χ^2/NDF : 307844.8/8

Left: 1532.349+/-0.284 χ^2/NDF : 566778.4/17

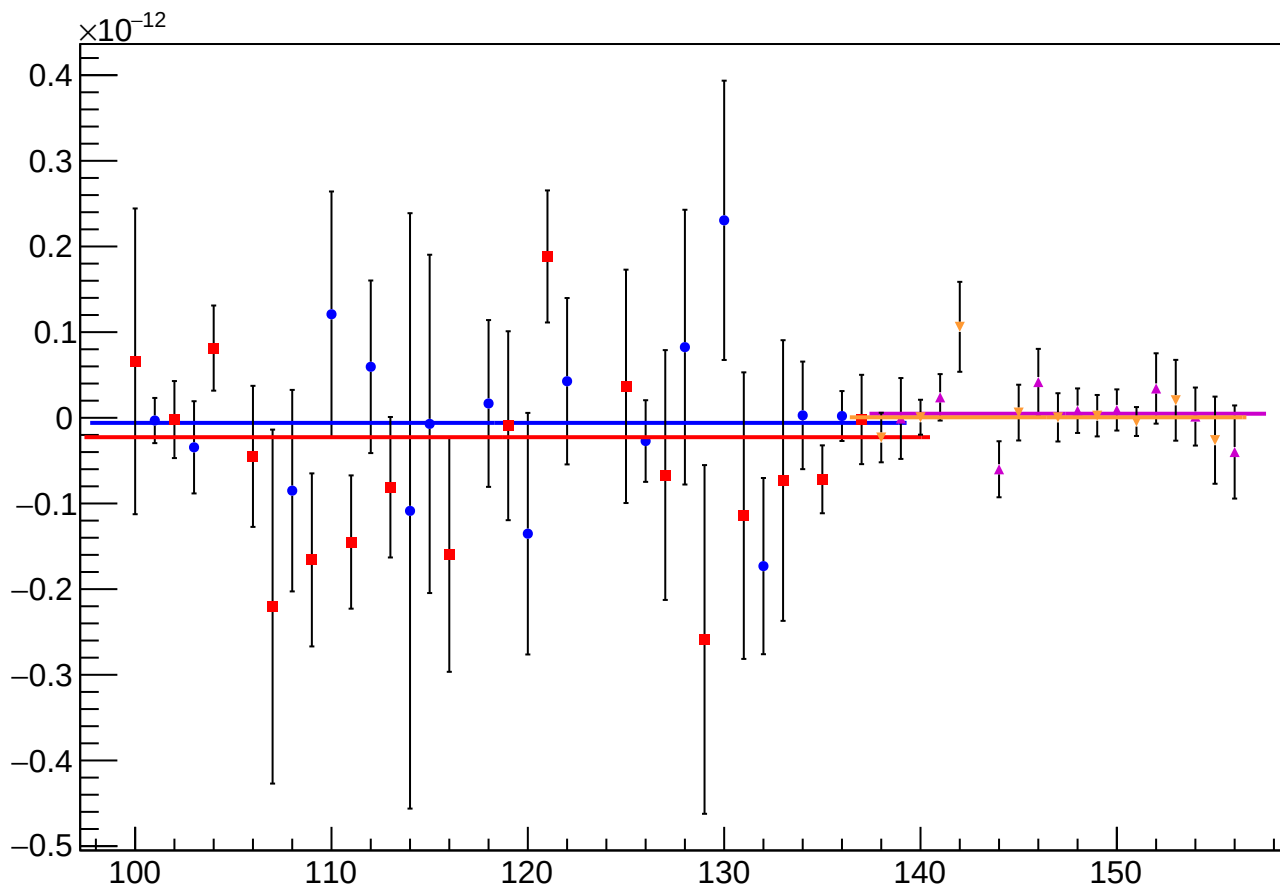
Right: 1449.753+/-0.271 χ^2/NDF : 517137.1/33

In: 1485.245+/-0.274 χ^2/NDF : 645598.3/24

Out: 1493.201+/-0.281 χ^2/NDF : 482064.0/26

All: 1489.117+/-0.196 χ^2/NDF : 1128072.6/51

asym_us_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 8.5/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 5.3/8$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 23.1/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6.6/8$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 12.0/17$

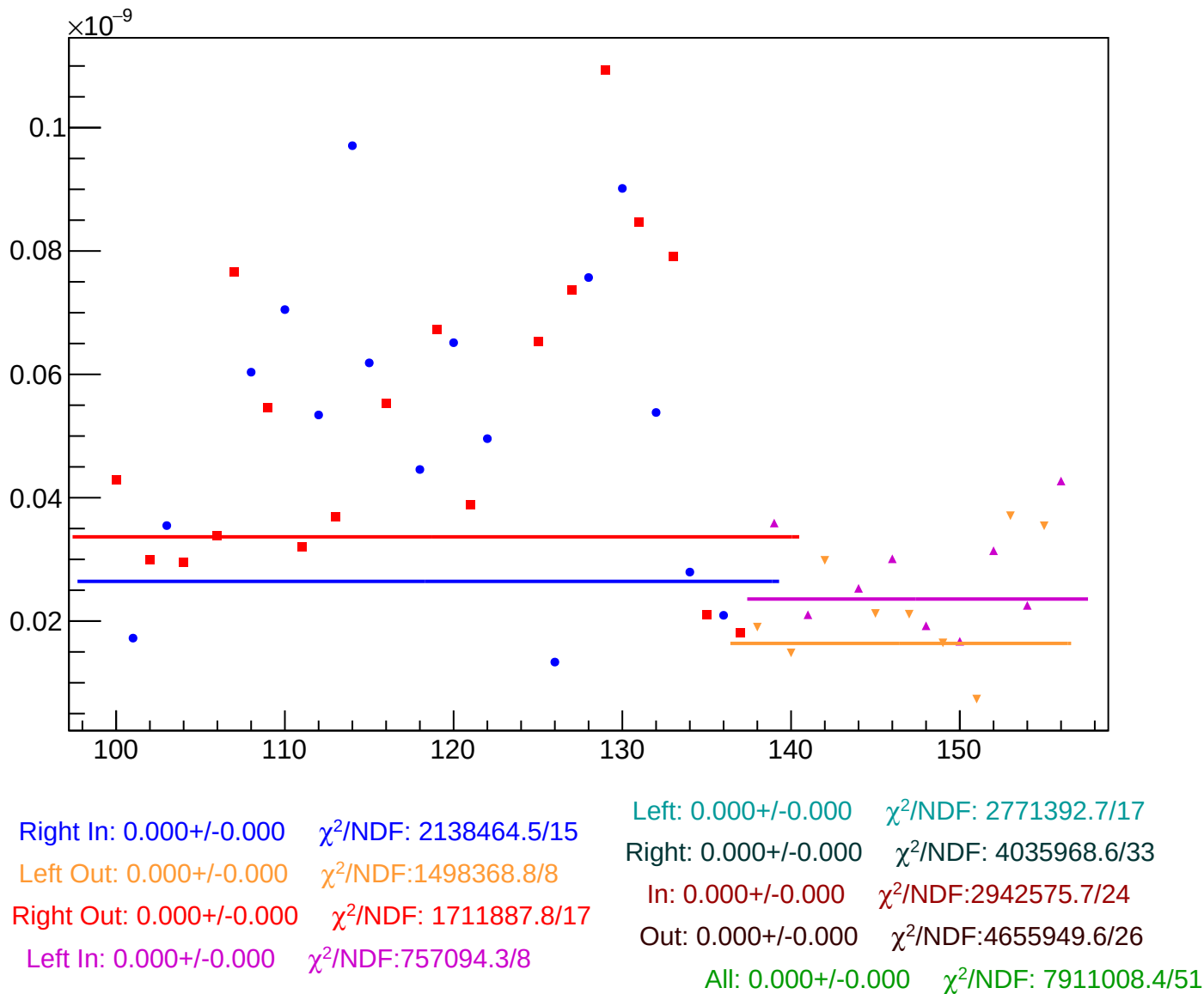
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 32.1/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 15.5/24$

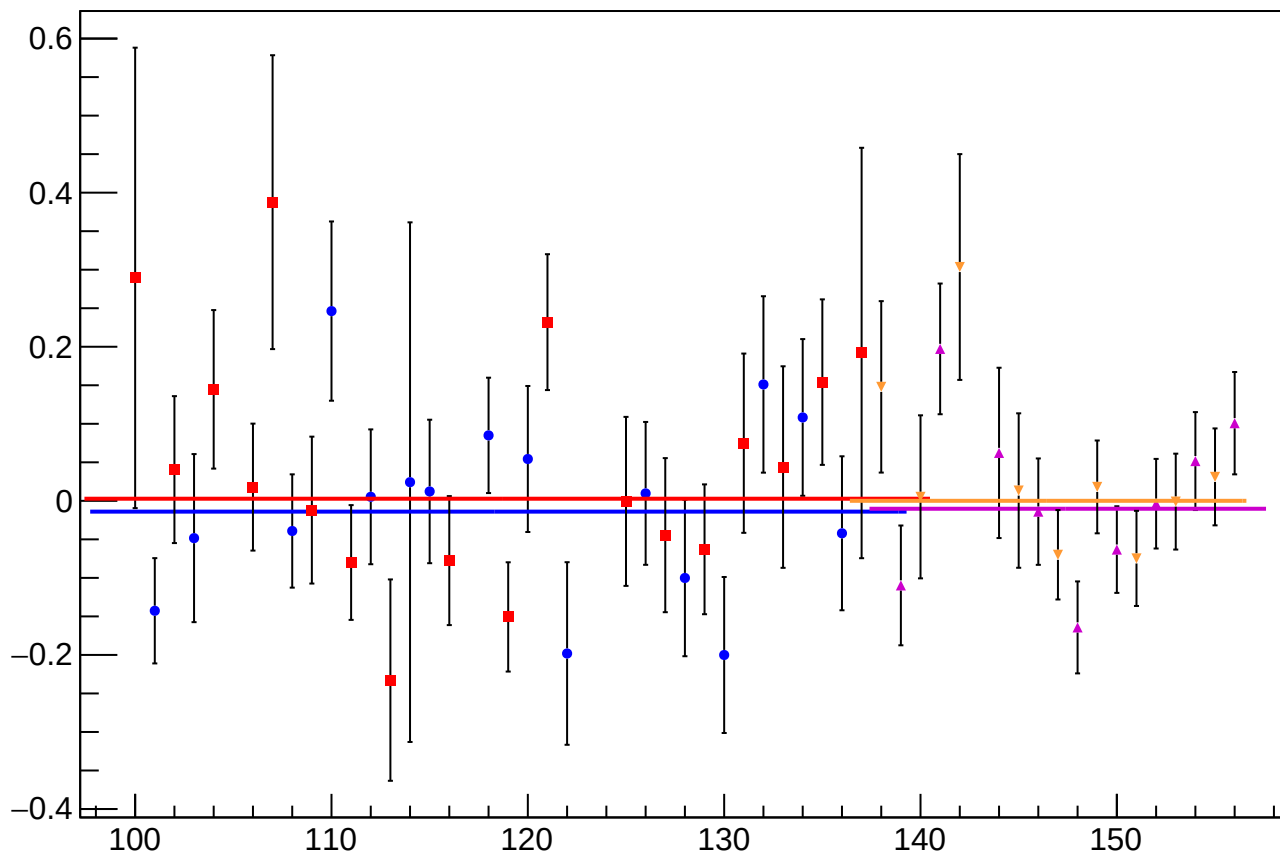
Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 29.7/26$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 45.3/51$

asym_us_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_us_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



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

Left Out: 0.000 ± 0.025 χ^2/NDF : 9.3/8

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

Left In: -0.010 ± 0.023 χ^2/NDF : 19.4/8

Left: -0.006 ± 0.017 χ^2/NDF : 28.8/17

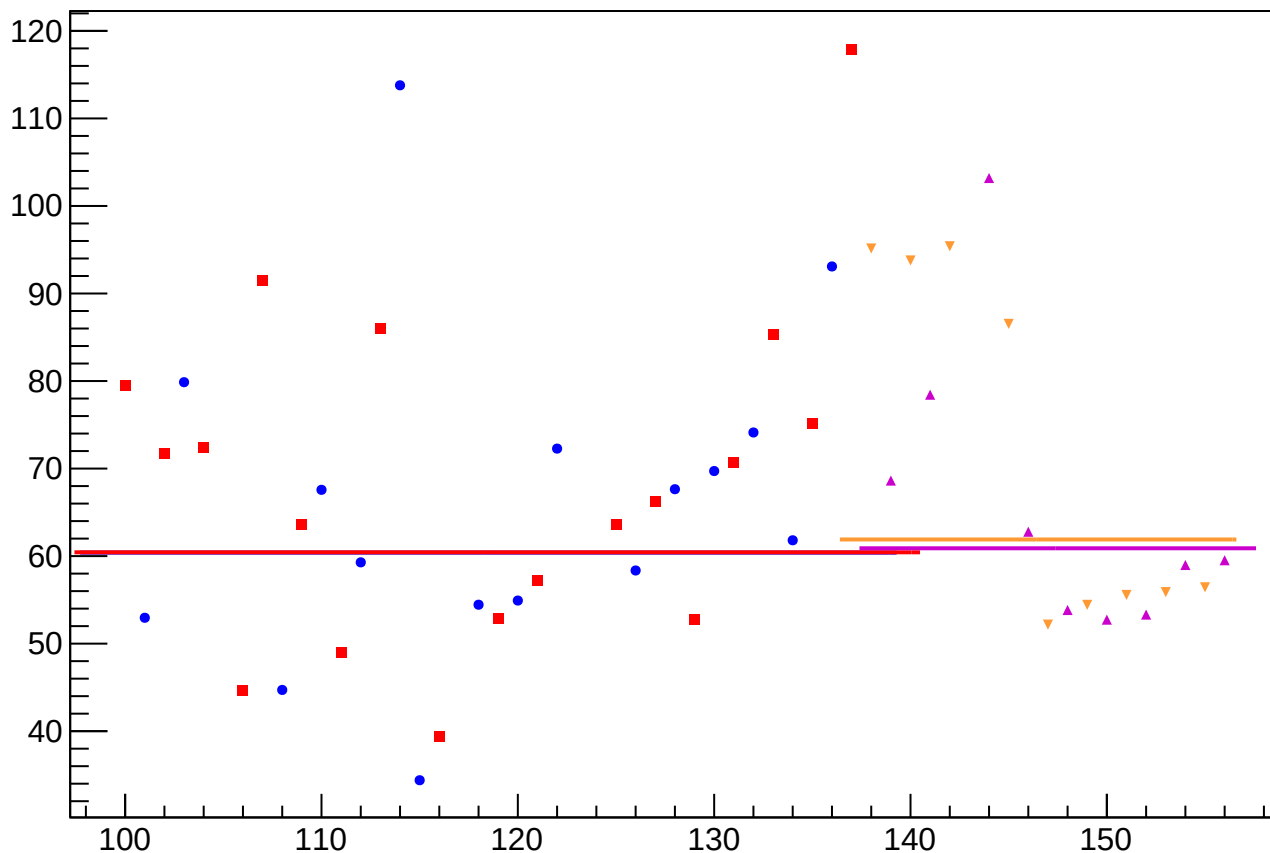
Right: -0.006 ± 0.017 χ^2/NDF : 49.4/33

In: -0.012 ± 0.016 χ^2/NDF : 40.7/24

Out: 0.001 ± 0.017 χ^2/NDF : 37.1/26

All: -0.006 ± 0.012 χ^2/NDF : 78.1/51

asym_us_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399 $\pm$ 0.017 χ^2 /NDF: 703157.1/15

Left Out: 61.900 $\pm$ 0.017 χ^2 /NDF: 727112.3/8

Right Out: 60.434 $\pm$ 0.017 χ^2 /NDF: 711093.4/17

Left In: 60.894 $\pm$ 0.016 χ^2 /NDF: 506358.0/8

Left: 61.355 $\pm$ 0.012 χ^2 /NDF: 1235293.2/17

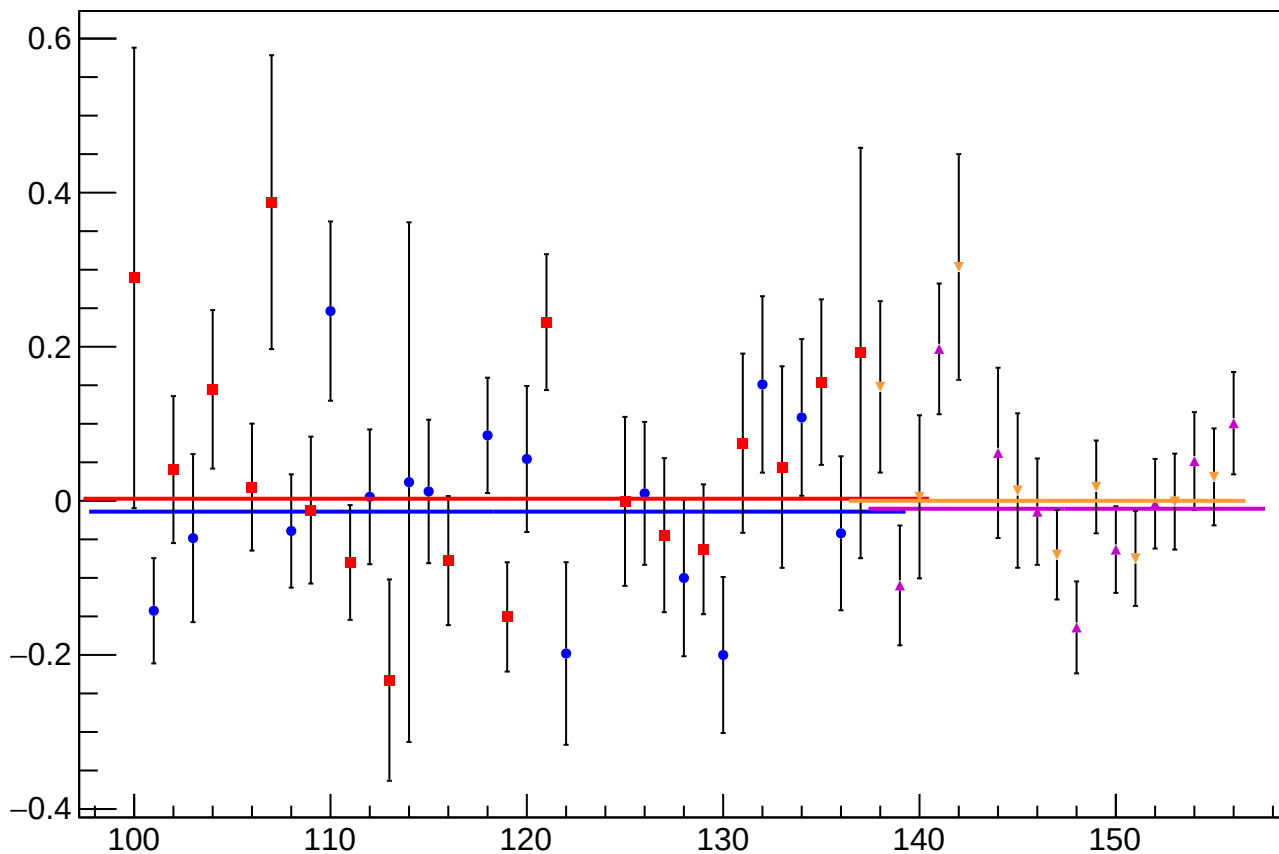
Right: 60.417 $\pm$ 0.012 χ^2 /NDF: 1414252.6/33

In: 60.660 $\pm$ 0.012 χ^2 /NDF: 1209967.8/24

Out: 61.145 $\pm$ 0.012 χ^2 /NDF: 1441885.6/26

All: 60.893 $\pm$ 0.008 χ^2 /NDF: 2652691.0/51

asym_us_avg_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: 0.000 ± 0.025 $\chi^2/\text{NDF}: 9.3/8$

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

Left In: -0.010 ± 0.023 $\chi^2/\text{NDF}: 19.4/8$

Left: -0.006 ± 0.017 $\chi^2/\text{NDF}: 28.8/17$

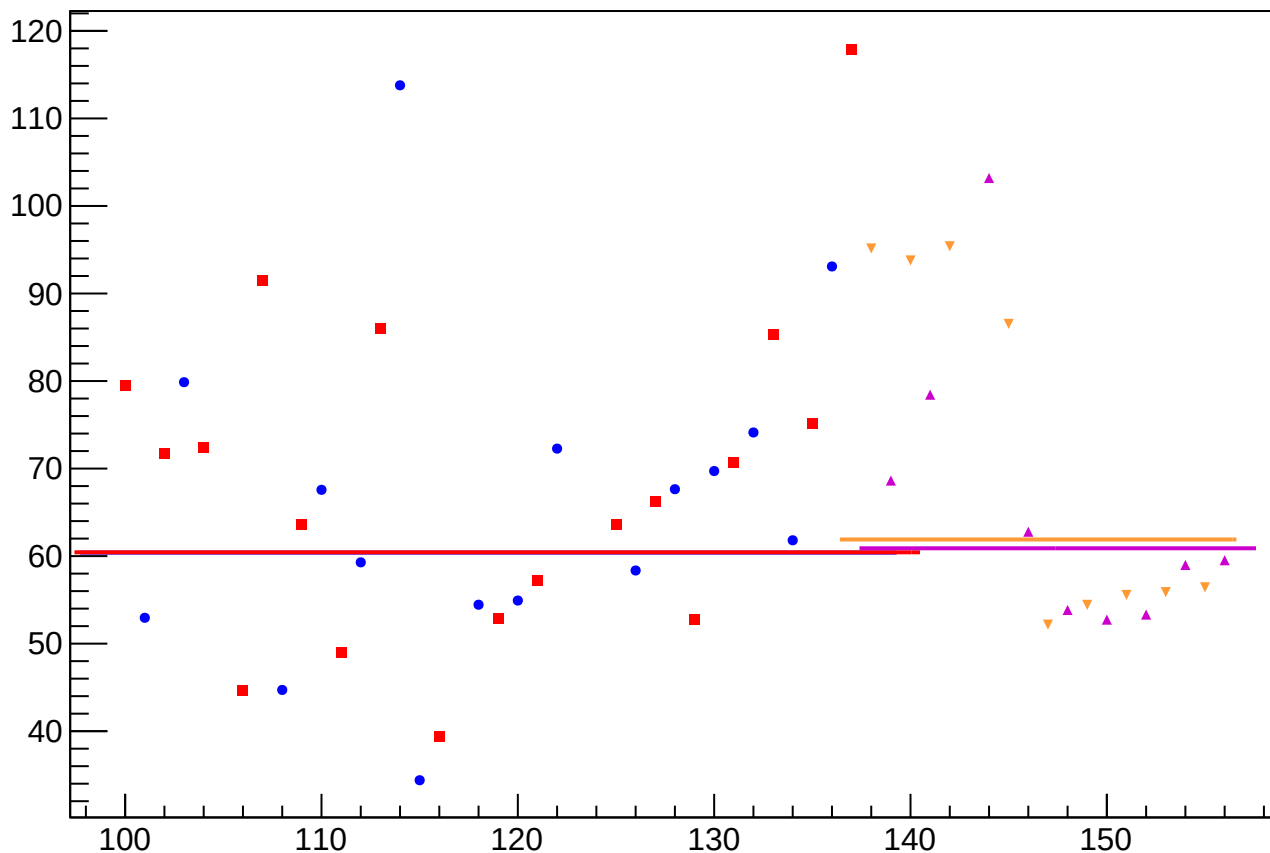
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.012 ± 0.016 $\chi^2/\text{NDF}: 40.7/24$

Out: 0.001 ± 0.017 $\chi^2/\text{NDF}: 37.1/26$

All: -0.006 ± 0.012 $\chi^2/\text{NDF}: 78.1/51$

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: 61.900+/-0.017 χ^2/NDF : 727112.3/8

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

Left In: 60.894+/-0.016 χ^2/NDF : 506358.0/8

Left: 61.355+/-0.012 χ^2/NDF : 1235293.2/17

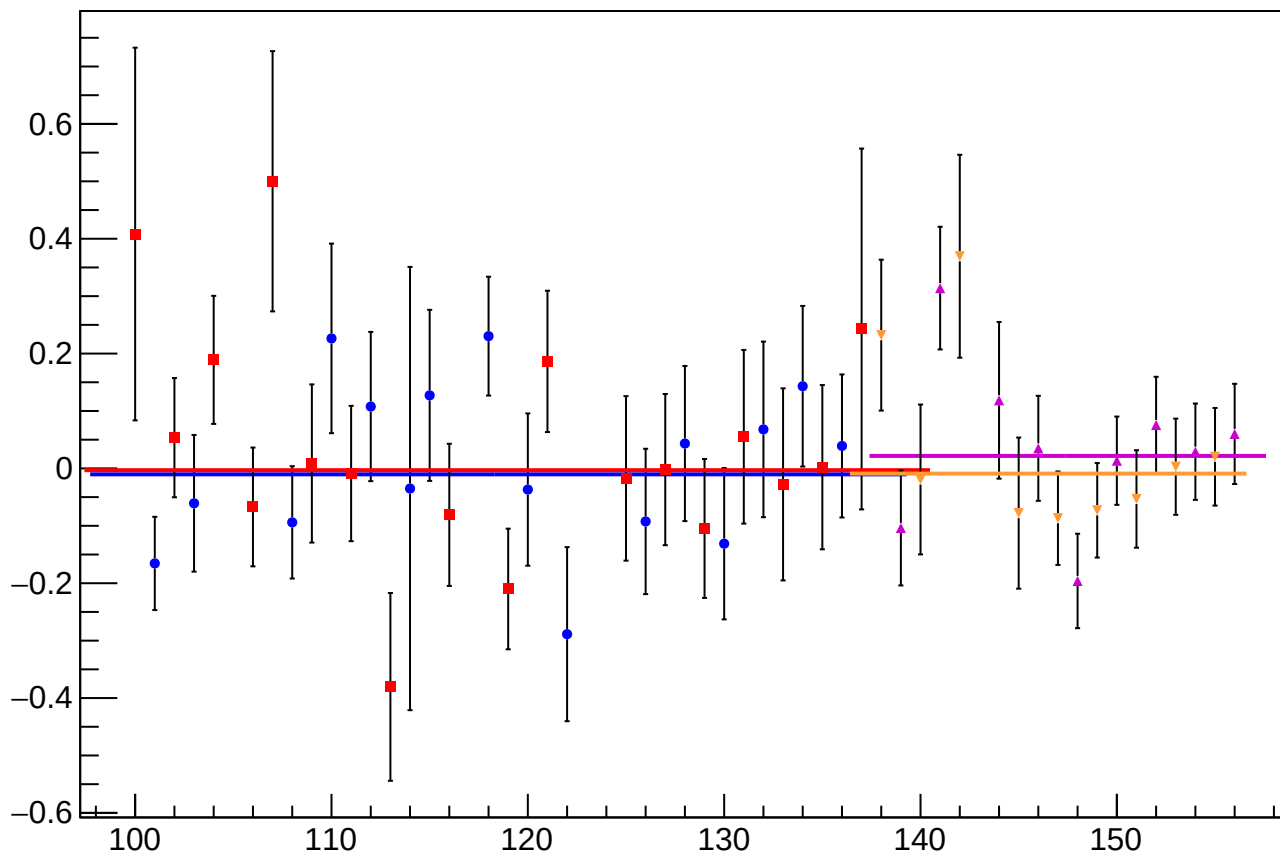
Right: 60.417+/-0.012 χ^2/NDF : 1414252.6/33

In: 60.660+/-0.012 χ^2/NDF : 1209967.8/24

Out: 61.145+/-0.012 χ^2/NDF : 1441885.6/26

All: 60.893+/-0.008 χ^2/NDF : 2652691.0/51

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: -0.009 ± 0.033 χ^2/NDF : 10.2/8

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

Left In: 0.022 ± 0.030 χ^2/NDF : 17.2/8

Left: 0.008 ± 0.022 χ^2/NDF : 27.9/17

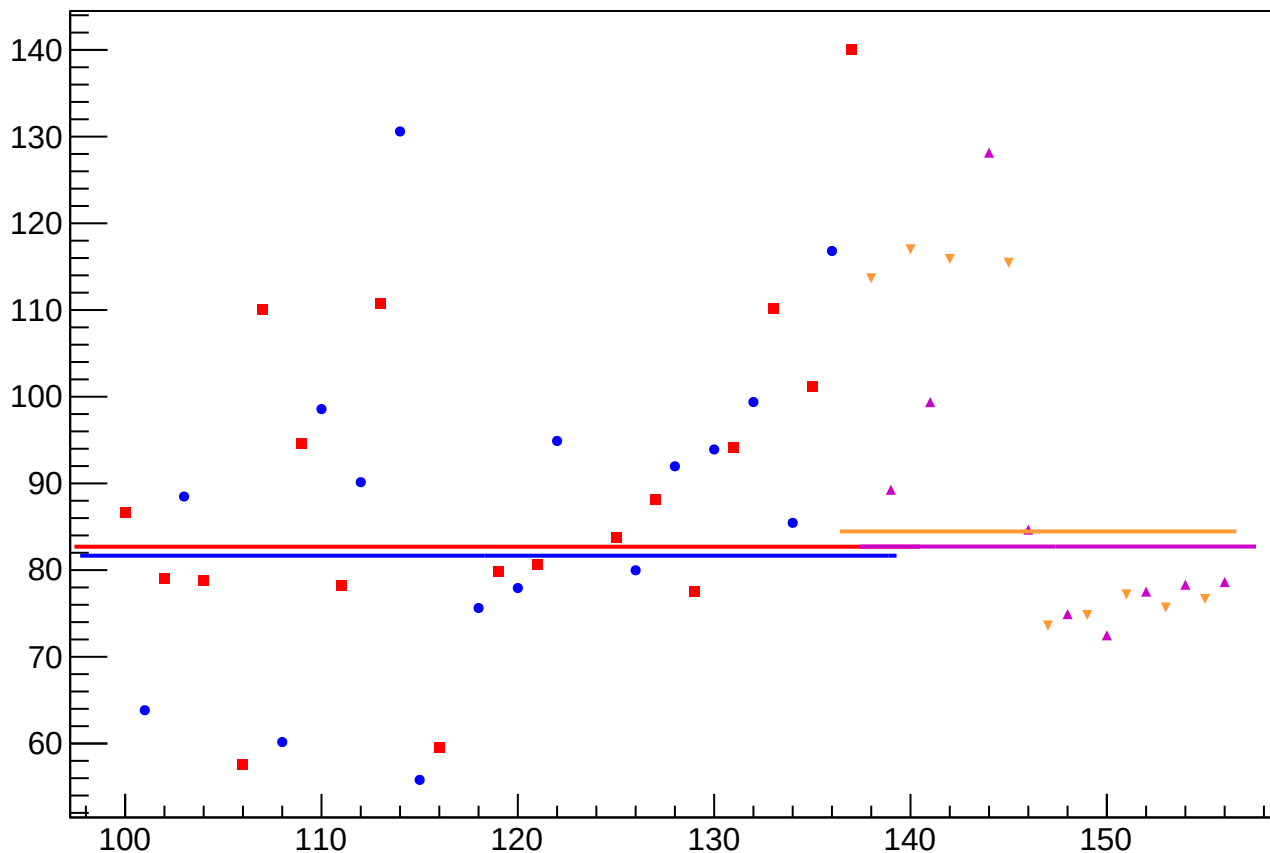
Right: -0.007 ± 0.022 χ^2/NDF : 43.8/33

In: 0.006 ± 0.022 χ^2/NDF : 37.9/24

Out: -0.006 ± 0.023 χ^2/NDF : 33.8/26

All: 0.000 ± 0.016 χ^2/NDF : 71.9/51

asym_us_avg_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 81.664 $\pm$ 0.022 χ^2 /NDF: 561848.8/15

Left Out: 84.460 $\pm$ 0.023 χ^2 /NDF: 513327.8/8

Right Out: 82.701 $\pm$ 0.022 χ^2 /NDF: 473065.7/17

Left In: 82.718 $\pm$ 0.021 χ^2 /NDF: 350826.7/8

Left: 83.516 $\pm$ 0.016 χ^2 /NDF: 867192.3/17

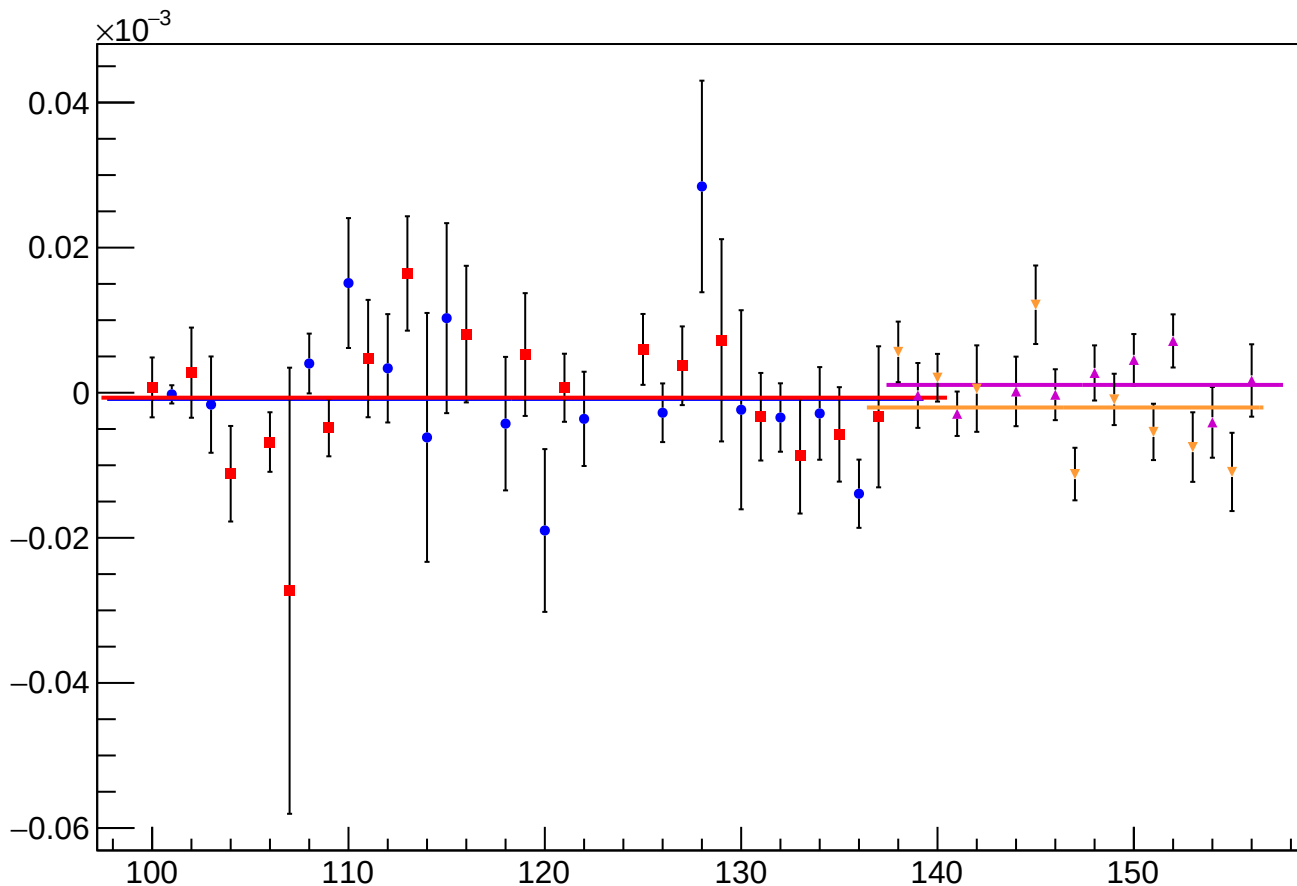
Right: 82.180 $\pm$ 0.016 χ^2 /NDF: 1035987.5/33

In: 82.214 $\pm$ 0.015 χ^2 /NDF: 913838.0/24

Out: 83.549 $\pm$ 0.016 χ^2 /NDF: 989354.1/26

All: 82.852 $\pm$ 0.011 χ^2 /NDF: 1906759.1/51

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 : 23.2/8

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

Left In: 0.000+/-0.000 χ^2/NDF : 7.0/8

Left: -0.000+/-0.000 χ^2/NDF : 32.9/17

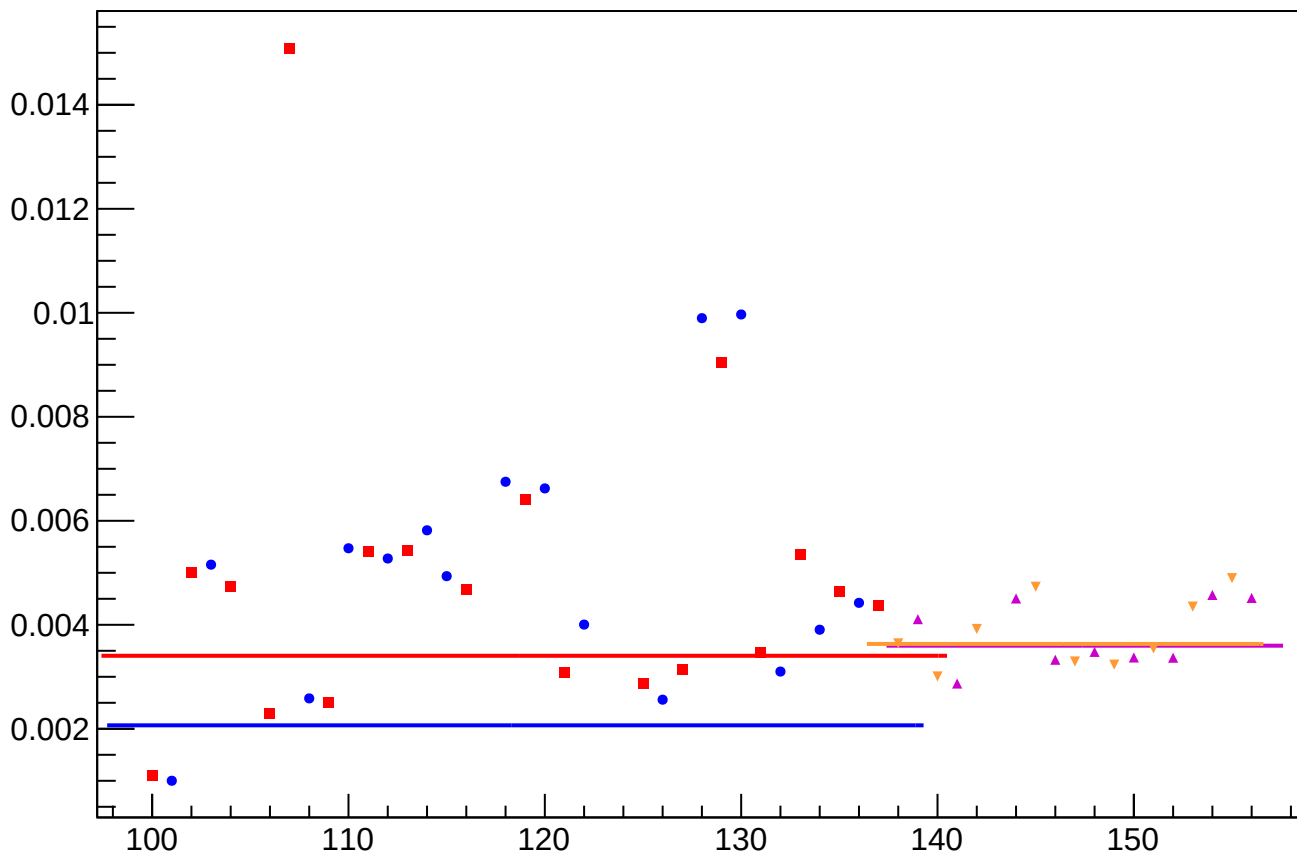
Right: -0.000+/-0.000 χ^2/NDF : 39.7/33

In: -0.000+/-0.000 χ^2/NDF : 29.7/24

Out: -0.000+/-0.000 χ^2/NDF : 42.0/26

All: -0.000+/-0.000 χ^2/NDF : 72.6/51

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: 0.004+/-0.000 χ^2/NDF : 357988.3/8

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

Left In: 0.004+/-0.000 χ^2/NDF : 388511.1/8

Left: 0.004+/-0.000 χ^2/NDF : 747112.2/17

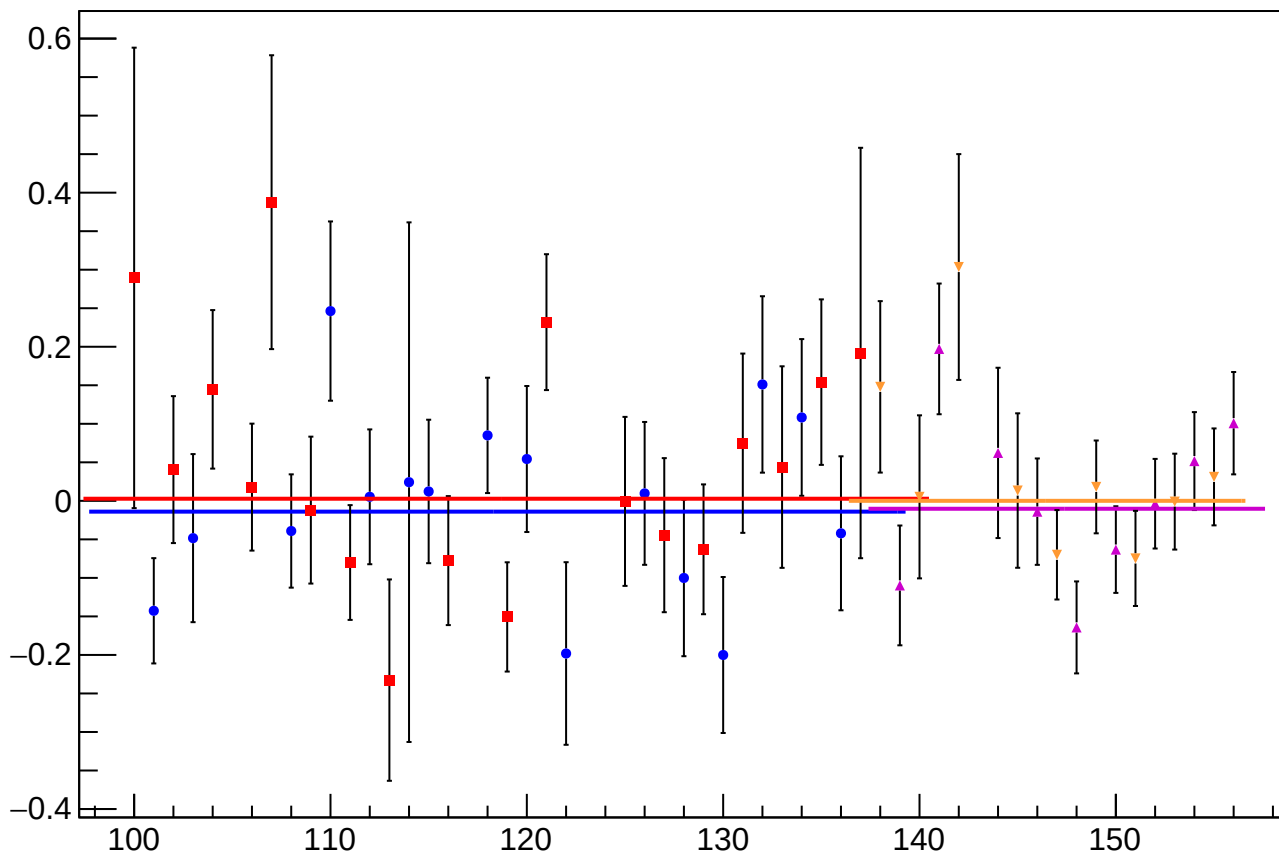
Right: 0.003+/-0.000 χ^2/NDF : 9479134.4/33

In: 0.003+/-0.000 χ^2/NDF : 7925176.0/24

Out: 0.004+/-0.000 χ^2/NDF : 2875286.5/26

All: 0.003+/-0.000 χ^2/NDF : 11752671.6/51

asym_us_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



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

Left Out: 0.000 ± 0.025 χ^2/NDF : 9.3/8

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

Left In: -0.010 ± 0.023 χ^2/NDF : 19.4/8

Left: -0.006 ± 0.017 χ^2/NDF : 28.8/17

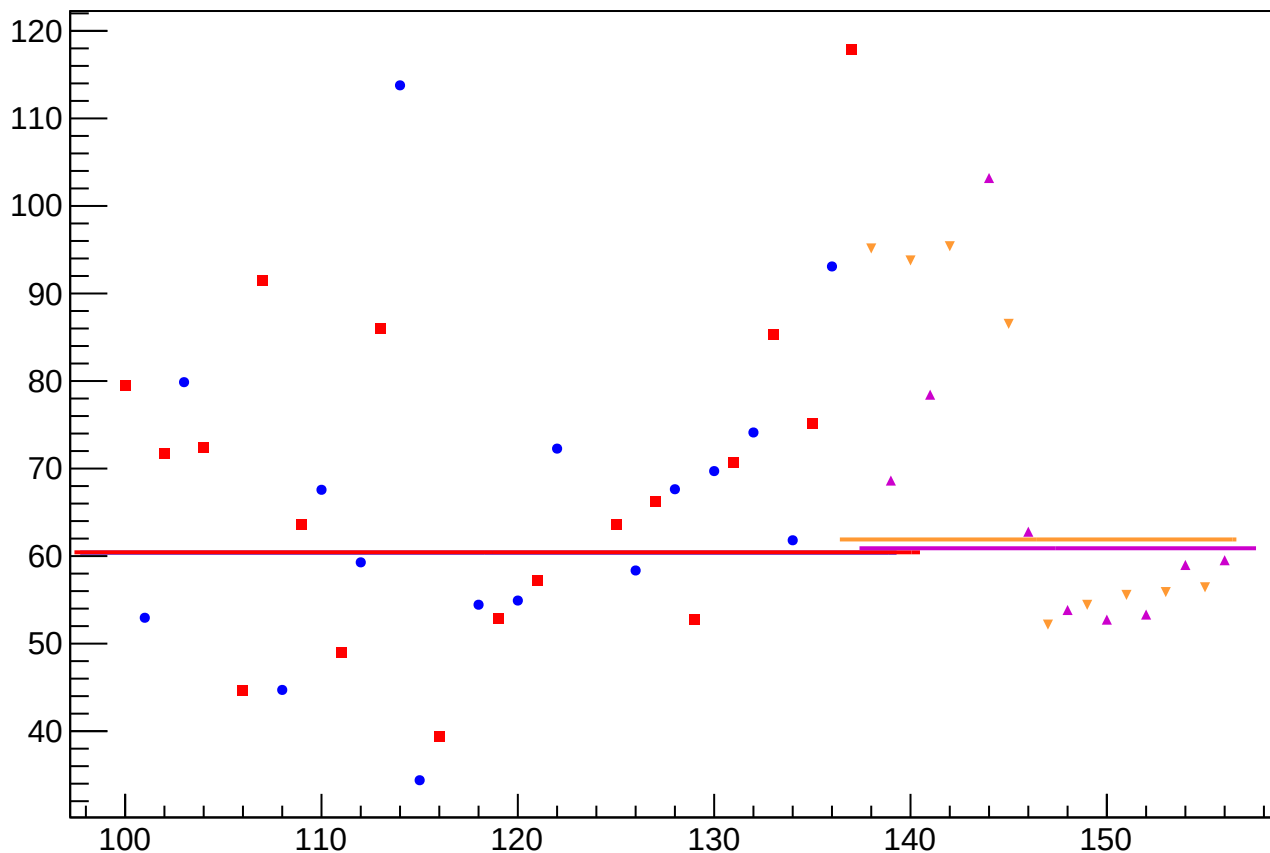
Right: -0.006 ± 0.017 χ^2/NDF : 49.4/33

In: -0.012 ± 0.016 χ^2/NDF : 40.7/24

Out: 0.001 ± 0.017 χ^2/NDF : 37.1/26

All: -0.006 ± 0.012 χ^2/NDF : 78.1/51

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: 61.900+/-0.017 χ^2/NDF : 727106.5/8

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

Left In: 60.894+/-0.016 χ^2/NDF : 506353.9/8

Left: 61.355+/-0.012 χ^2/NDF : 1235283.3/17

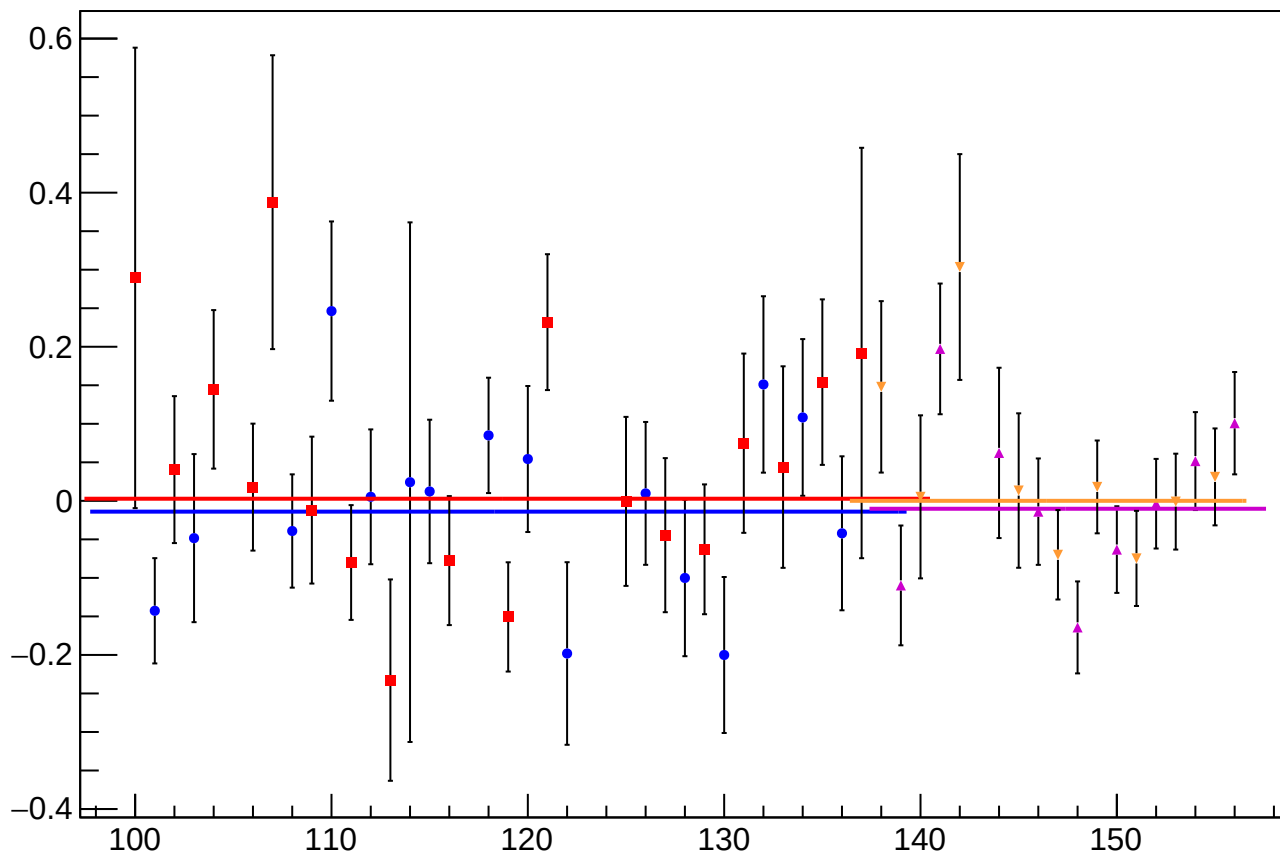
Right: 60.415+/-0.012 χ^2/NDF : 1414293.7/33

In: 60.660+/-0.012 χ^2/NDF : 1209978.8/24

Out: 61.144+/-0.012 χ^2/NDF : 1441918.4/26

All: 60.892+/-0.008 χ^2/NDF : 2652734.0/51

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: 0.000 ± 0.025 $\chi^2/\text{NDF}: 9.3/8$

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

Left In: -0.010 ± 0.023 $\chi^2/\text{NDF}: 19.4/8$

Left: -0.006 ± 0.017 $\chi^2/\text{NDF}: 28.8/17$

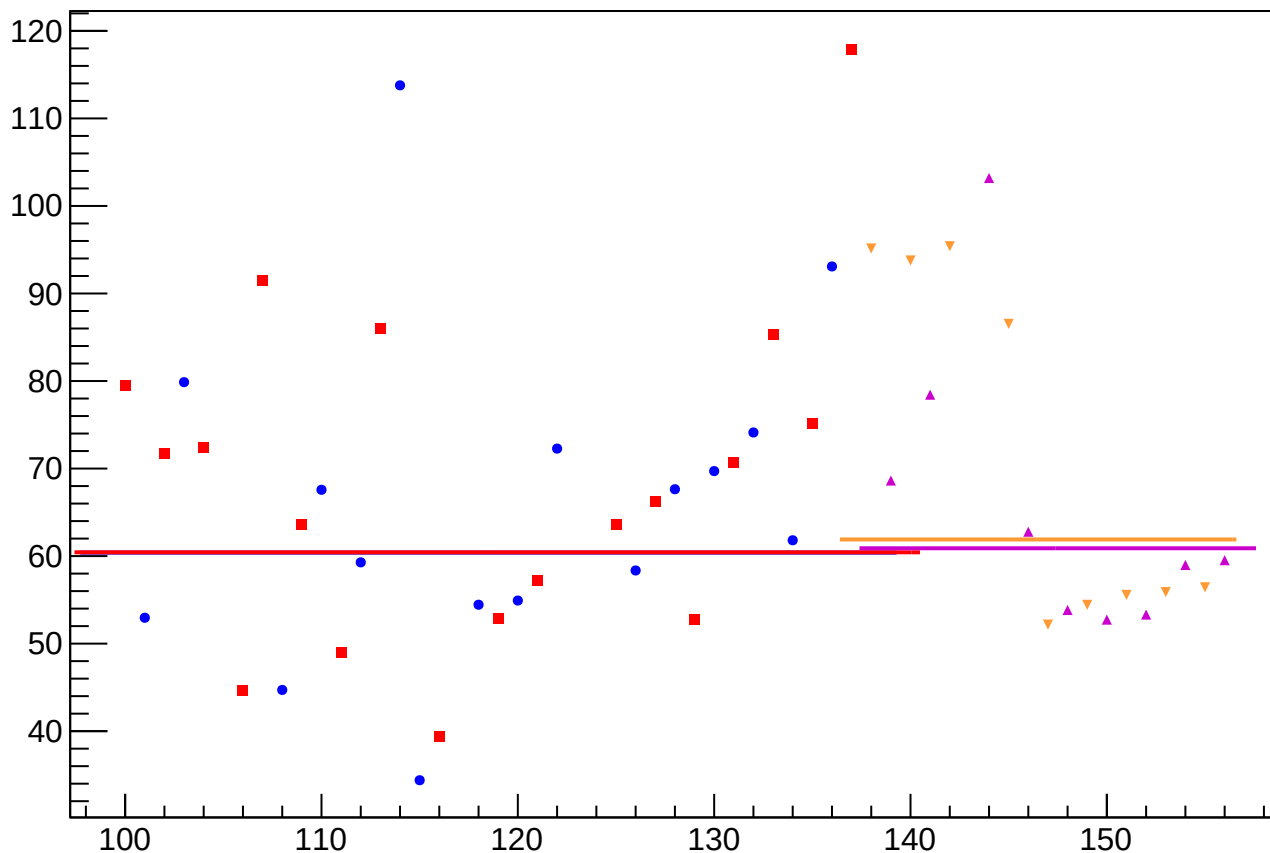
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.012 ± 0.016 $\chi^2/\text{NDF}: 40.7/24$

Out: 0.001 ± 0.017 $\chi^2/\text{NDF}: 37.1/26$

All: -0.006 ± 0.012 $\chi^2/\text{NDF}: 78.1/51$

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: 61.900+/-0.017 χ^2/NDF : 727106.5/8

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

Left In: 60.894+/-0.016 χ^2/NDF : 506353.9/8

Left: 61.355+/-0.012 χ^2/NDF : 1235283.3/17

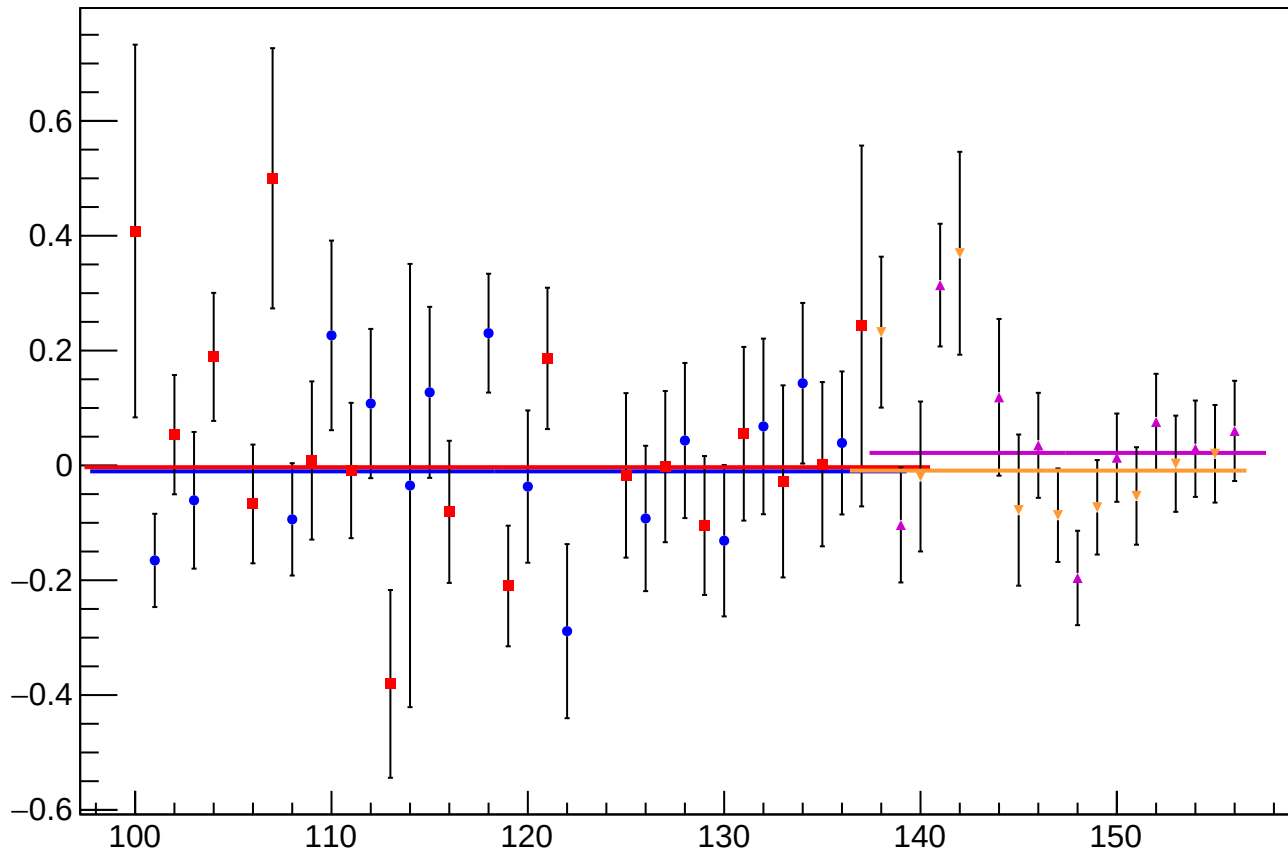
Right: 60.415+/-0.012 χ^2/NDF : 1414293.7/33

In: 60.660+/-0.012 χ^2/NDF : 1209978.8/24

Out: 61.144+/-0.012 χ^2/NDF : 1441918.4/26

All: 60.892+/-0.008 χ^2/NDF : 2652734.0/51

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: -0.009 ± 0.033 χ^2/NDF : 10.2/8

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

Left In: 0.022 ± 0.030 χ^2/NDF : 17.2/8

Left: 0.008 ± 0.022 χ^2/NDF : 27.9/17

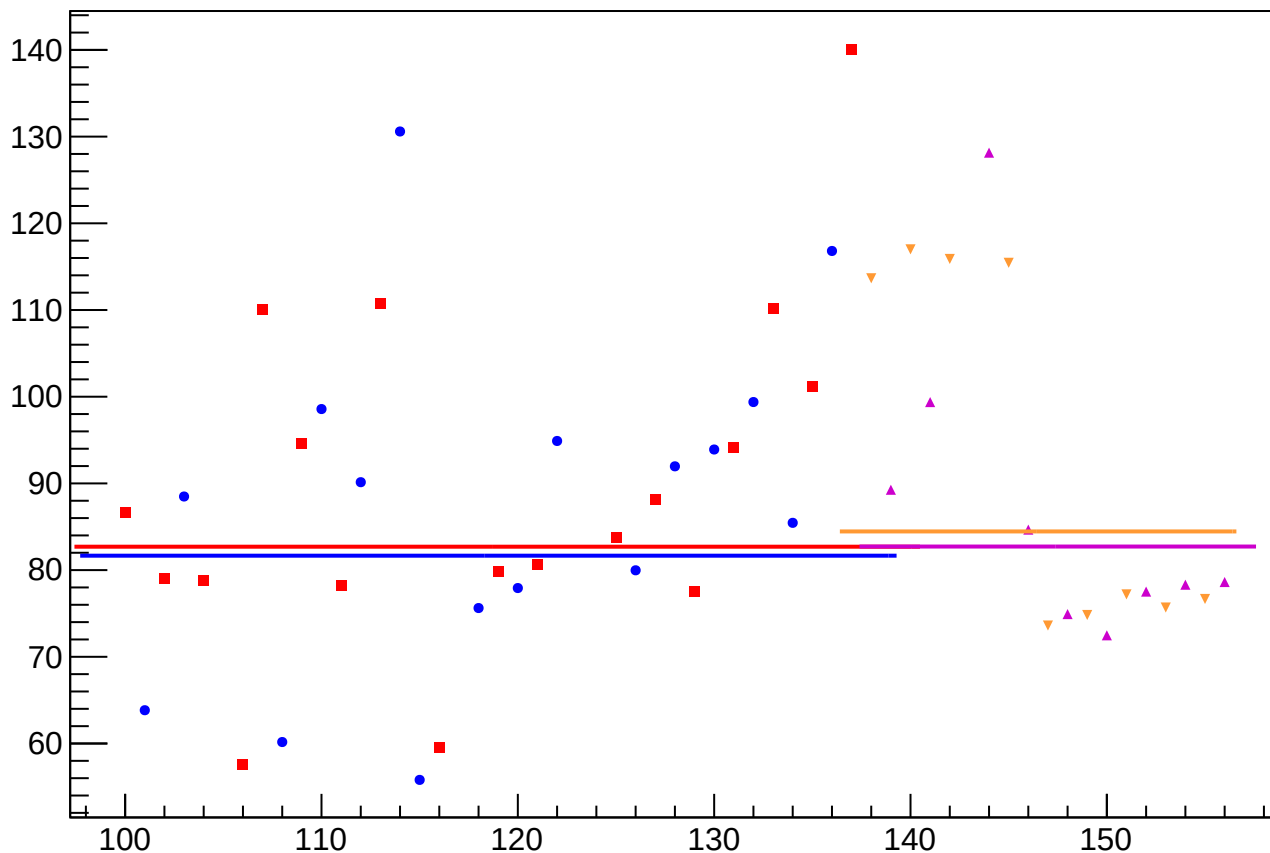
Right: -0.007 ± 0.022 χ^2/NDF : 43.8/33

In: 0.006 ± 0.022 χ^2/NDF : 37.9/24

Out: -0.006 ± 0.023 χ^2/NDF : 33.8/26

All: 0.000 ± 0.016 χ^2/NDF : 71.9/51

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: 84.460 $\pm$ 0.023 χ^2/NDF : 513324.9/8

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

Left In: 82.719 $\pm$ 0.021 χ^2/NDF : 350826.0/8

Left: 83.516 $\pm$ 0.016 χ^2/NDF : 867188.5/17

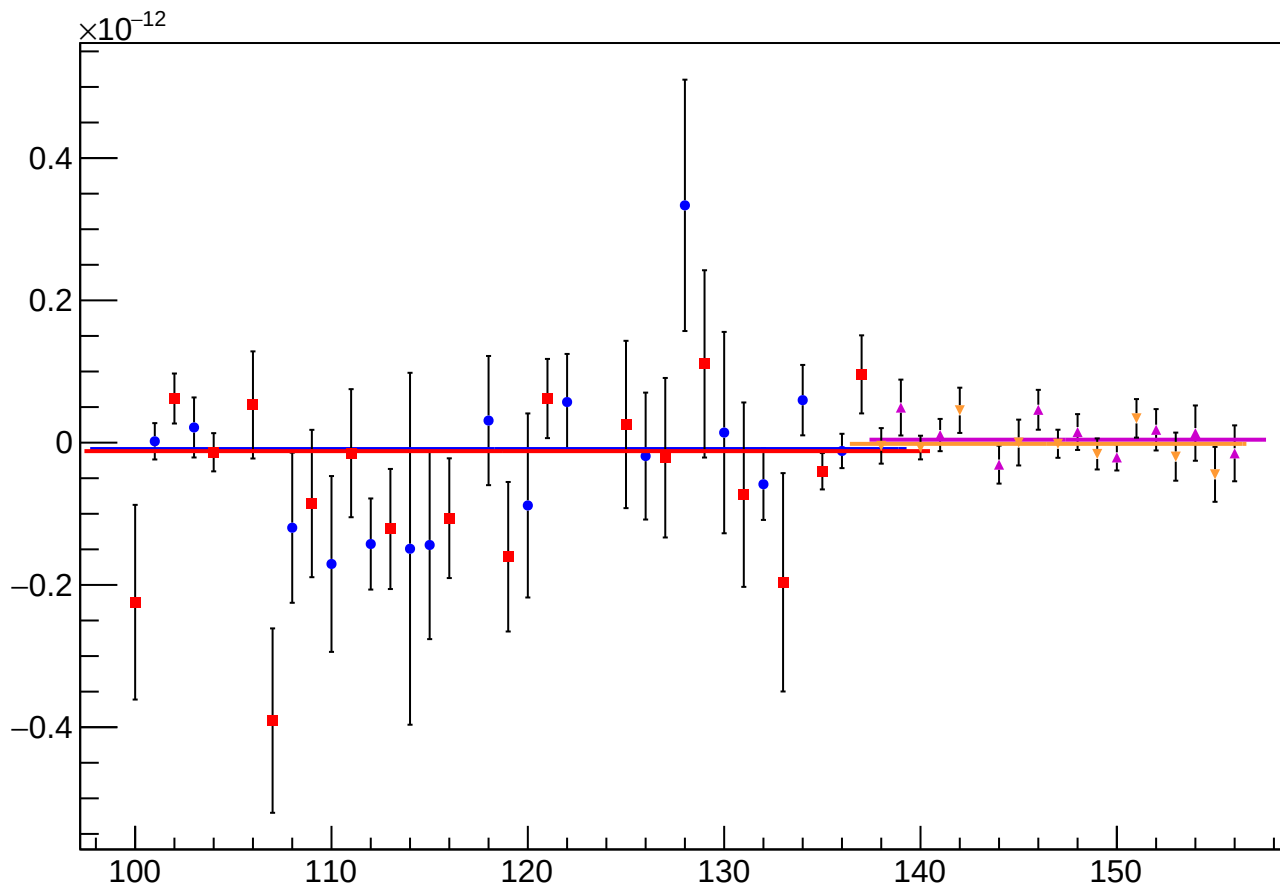
Right: 82.179 $\pm$ 0.016 χ^2/NDF : 1035971.3/33

In: 82.214 $\pm$ 0.015 χ^2/NDF : 913827.1/24

Out: 83.549 $\pm$ 0.016 χ^2/NDF : 989351.9/26

All: 82.852 $\pm$ 0.011 χ^2/NDF : 1906745.0/51

asym_us_avg_eigen_cor_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: 6.0/8

Right Out: -0.000+/-0.000 χ^2 /NDF: 31.1/17

Left In: 0.000+/-0.000 χ^2 /NDF: 7.9/8

Left: 0.000+/-0.000 χ^2 /NDF: 14.1/17

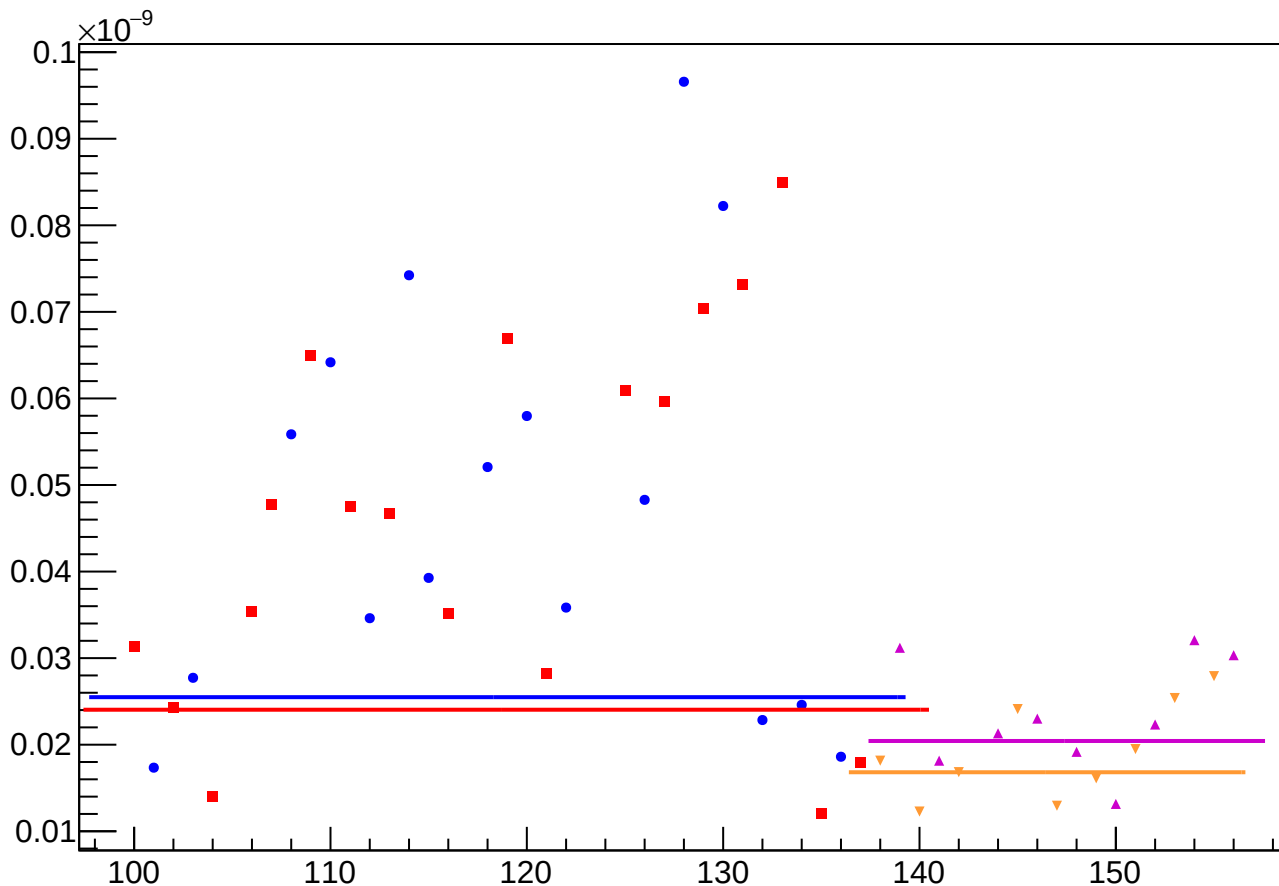
Right: -0.000+/-0.000 χ^2 /NDF: 48.5/33

In: -0.000+/-0.000 χ^2 /NDF: 26.0/24

Out: -0.000+/-0.000 χ^2 /NDF: 37.5/26

All: -0.000+/-0.000 χ^2 /NDF: 63.7/51

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 : 649618.6/8

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

Left In: 0.000+/-0.000 χ^2/NDF : 822704.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1647325.6/17

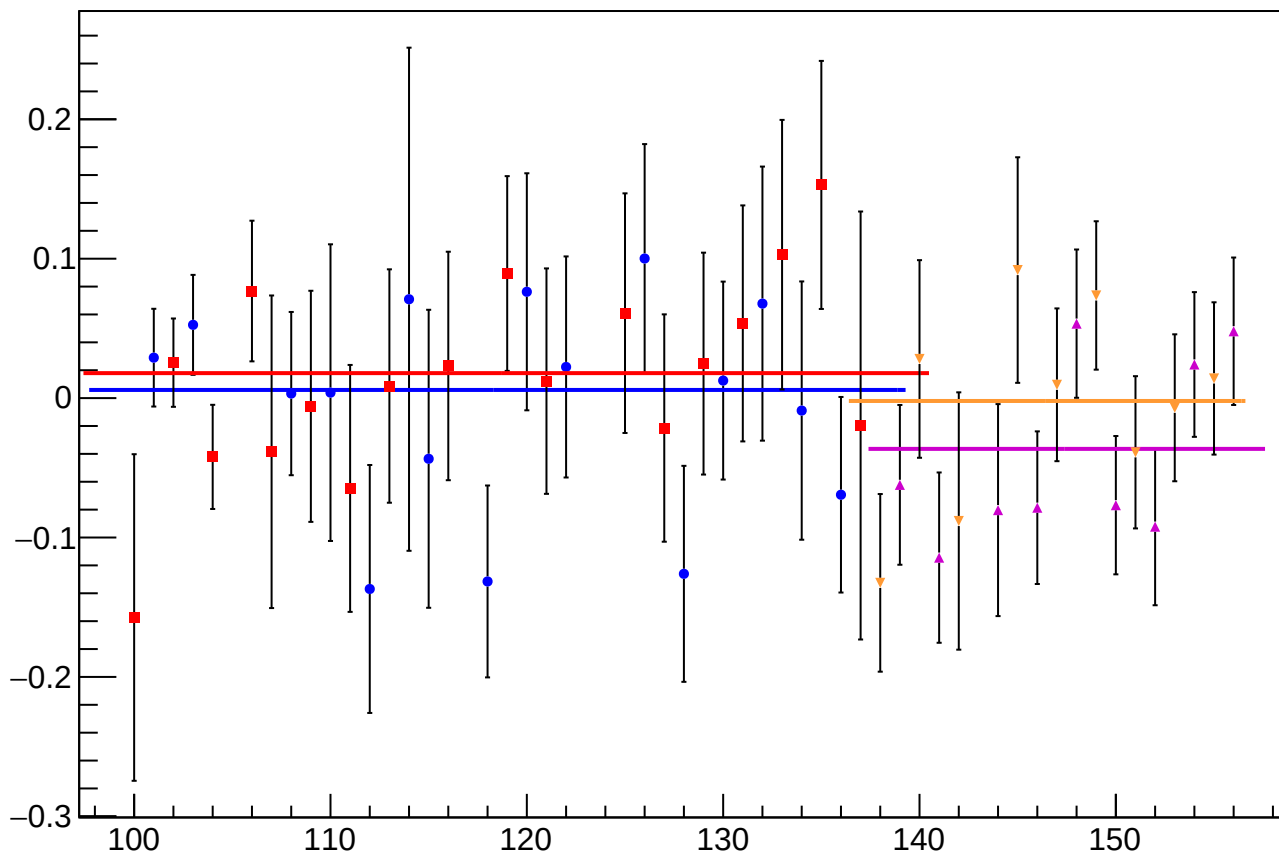
Right: 0.000+/-0.000 χ^2/NDF : 5096304.5/33

In: 0.000+/-0.000 χ^2/NDF : 3022105.0/24

Out: 0.000+/-0.000 χ^2/NDF : 4156119.1/26

All: 0.000+/-0.000 χ^2/NDF : 7377859.3/51

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: -0.002 ± 0.020 $\chi^2/\text{NDF}: 9.2/8$

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

Left In: -0.036 ± 0.019 $\chi^2/\text{NDF}: 11.2/8$

Left: -0.021 ± 0.014 $\chi^2/\text{NDF}: 21.9/17$

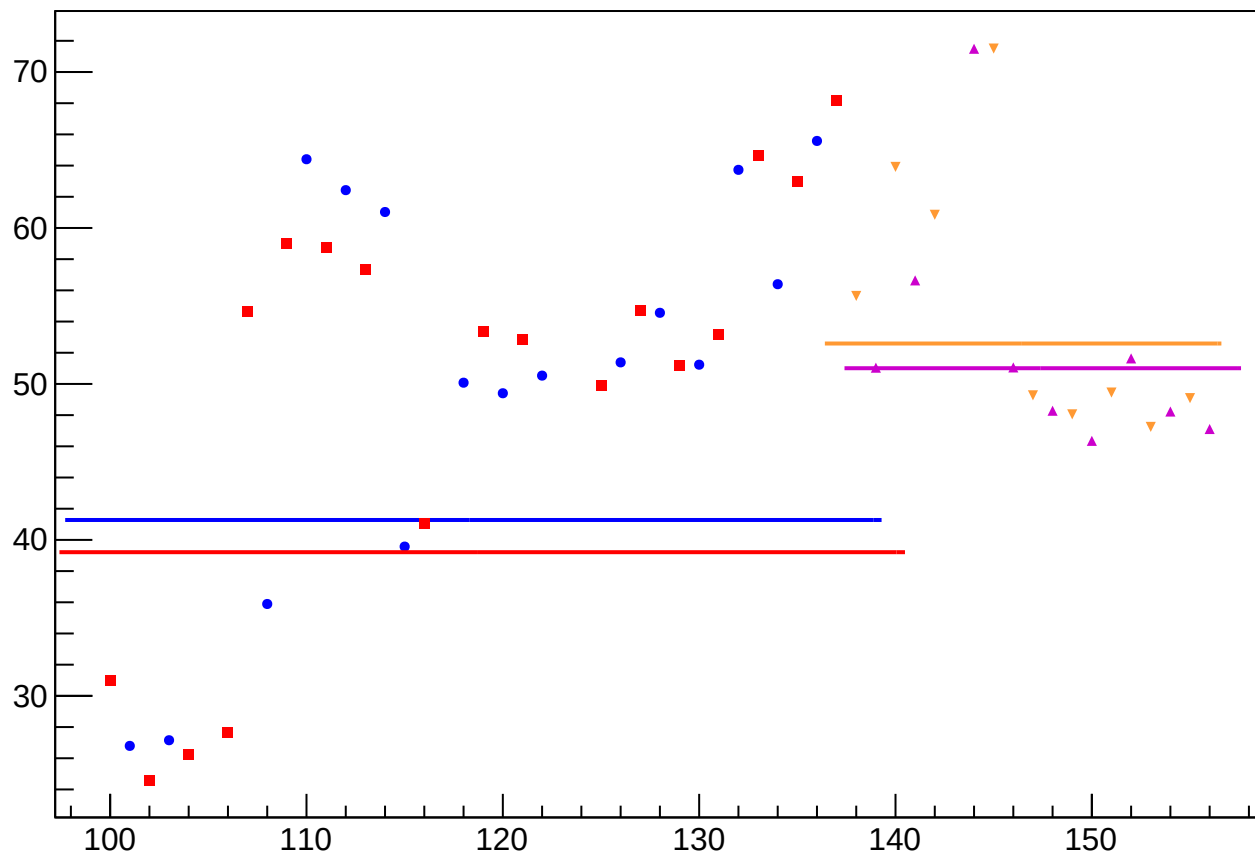
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.013 ± 0.012 $\chi^2/\text{NDF}: 29.6/24$

Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 22.1/26$

All: -0.001 ± 0.009 $\chi^2/\text{NDF}: 53.5/51$

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: 52.592 $\pm$ 0.014 χ^2/NDF : 238265.8/8

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

Left In: 51.008 $\pm$ 0.013 χ^2/NDF : 201871.5/8

Left: 51.733 $\pm$ 0.010 χ^2/NDF : 446758.6/17

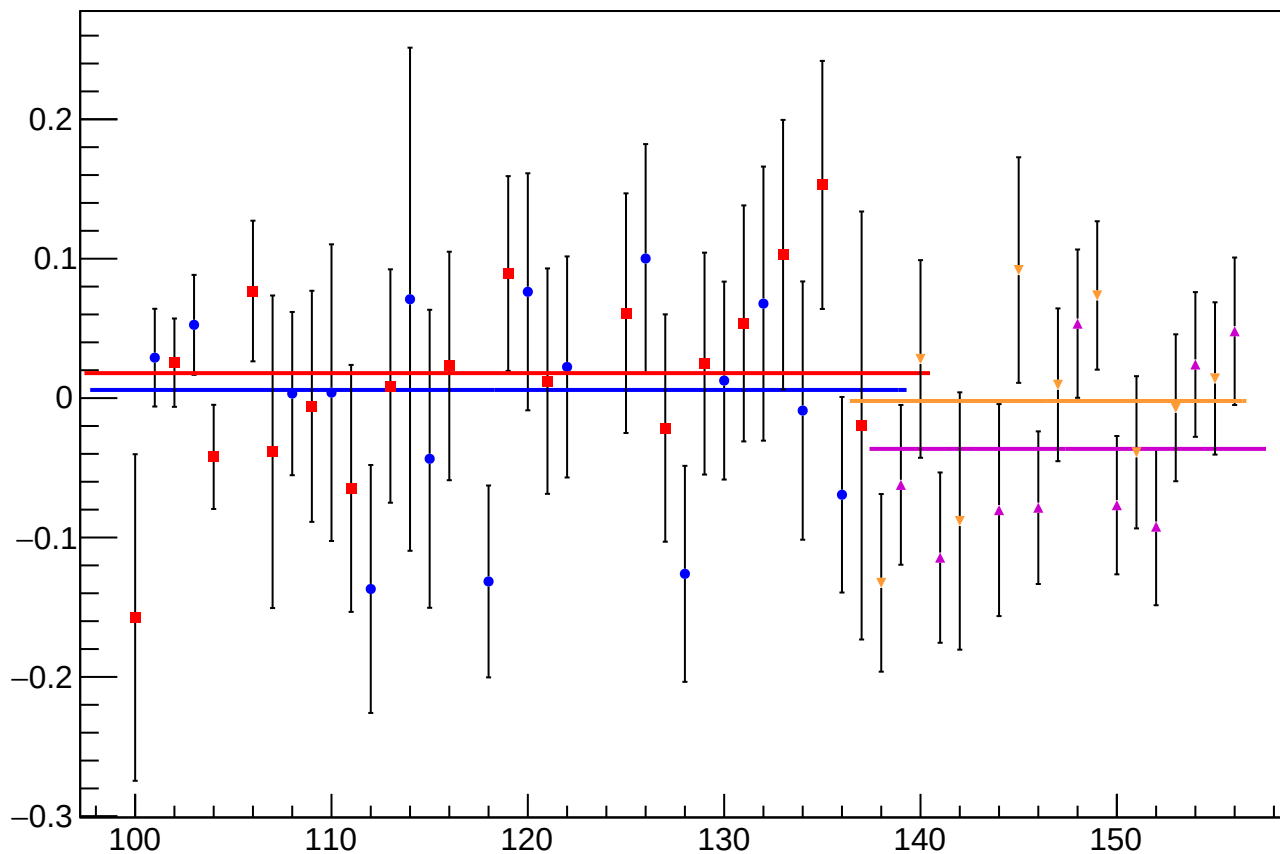
Right: 40.194 $\pm$ 0.008 χ^2/NDF : 3341542.4/33

In: 45.563 $\pm$ 0.009 χ^2/NDF : 2012555.6/24

Out: 44.241 $\pm$ 0.009 χ^2/NDF : 2601759.3/26

All: 44.905 $\pm$ 0.006 χ^2/NDF : 4625689.3/51

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: -0.002 ± 0.020 $\chi^2/\text{NDF}: 9.2/8$

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

Left In: -0.036 ± 0.019 $\chi^2/\text{NDF}: 11.2/8$

Left: -0.021 ± 0.014 $\chi^2/\text{NDF}: 21.9/17$

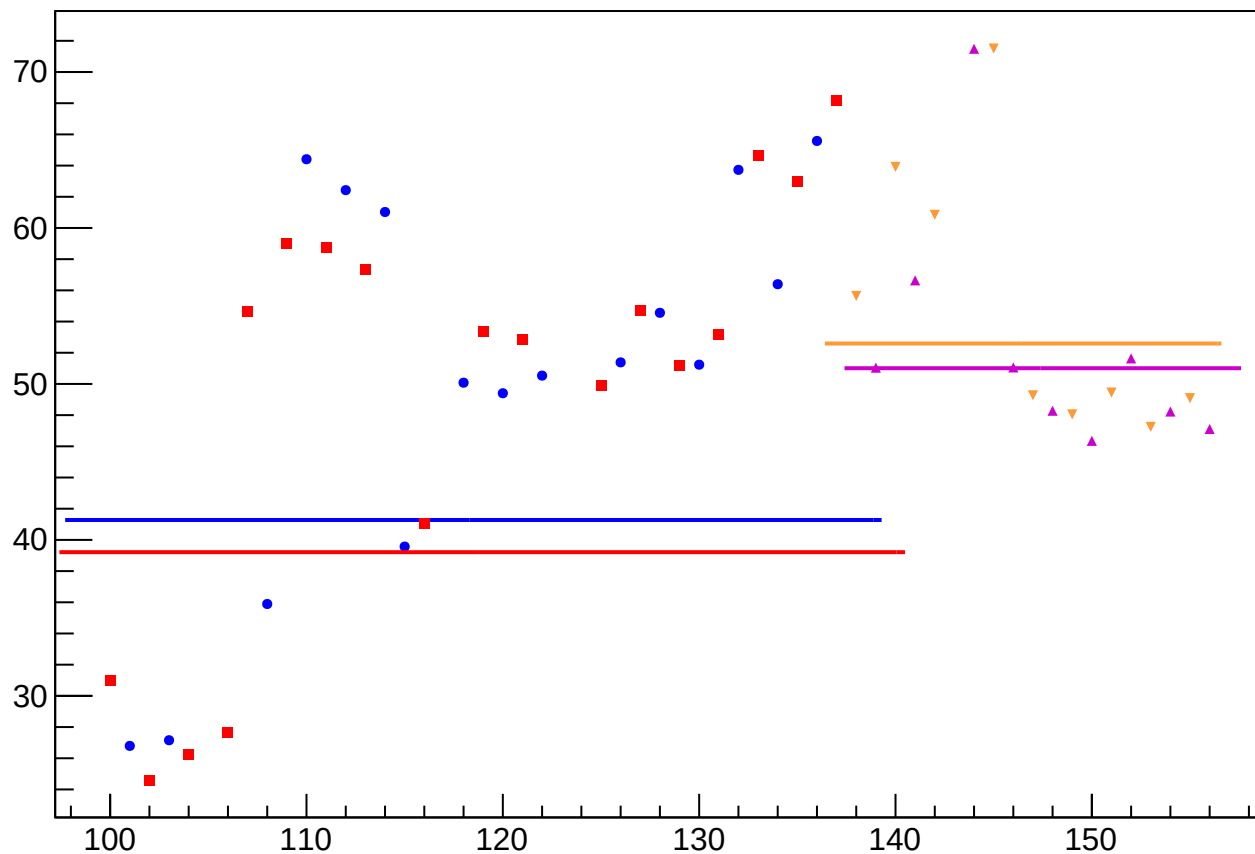
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.013 ± 0.012 $\chi^2/\text{NDF}: 29.6/24$

Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 22.1/26$

All: -0.001 ± 0.009 $\chi^2/\text{NDF}: 53.5/51$

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.277+/-0.012 χ^2/NDF : 1505245.8/15

Left Out: 52.592+/-0.014 χ^2/NDF : 238265.8/8

Right Out: 39.212+/-0.011 χ^2/NDF : 1819921.9/17

Left In: 51.008+/-0.013 χ^2/NDF : 201871.5/8

Left: 51.733+/-0.010 χ^2/NDF : 446758.6/17

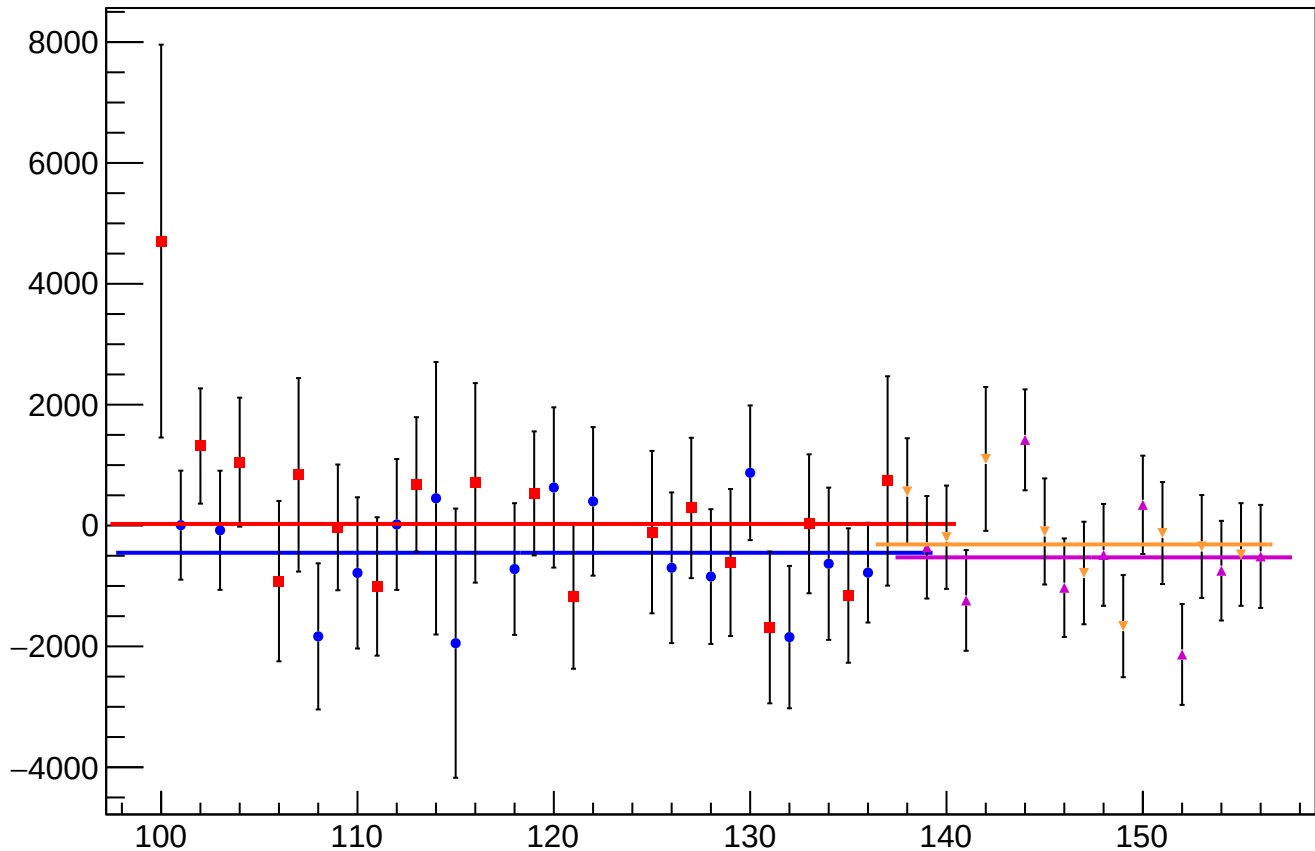
Right: 40.194+/-0.008 χ^2/NDF : 3341542.4/33

In: 45.563+/-0.009 χ^2/NDF : 2012555.6/24

Out: 44.241+/-0.009 χ^2/NDF : 2601759.3/26

All: 44.905+/-0.006 χ^2/NDF : 4625689.3/51

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 ± 288.950 $\chi^2/\text{NDF}: 6.9/15$

Left Out: -312.757 ± 293.388 $\chi^2/\text{NDF}: 5.4/8$

Right Out: 26.099 ± 288.079 $\chi^2/\text{NDF}: 11.7/17$

Left In: -527.075 ± 277.635 $\chi^2/\text{NDF}: 11.5/8$

Left: -425.824 ± 201.657 $\chi^2/\text{NDF}: 17.2/17$

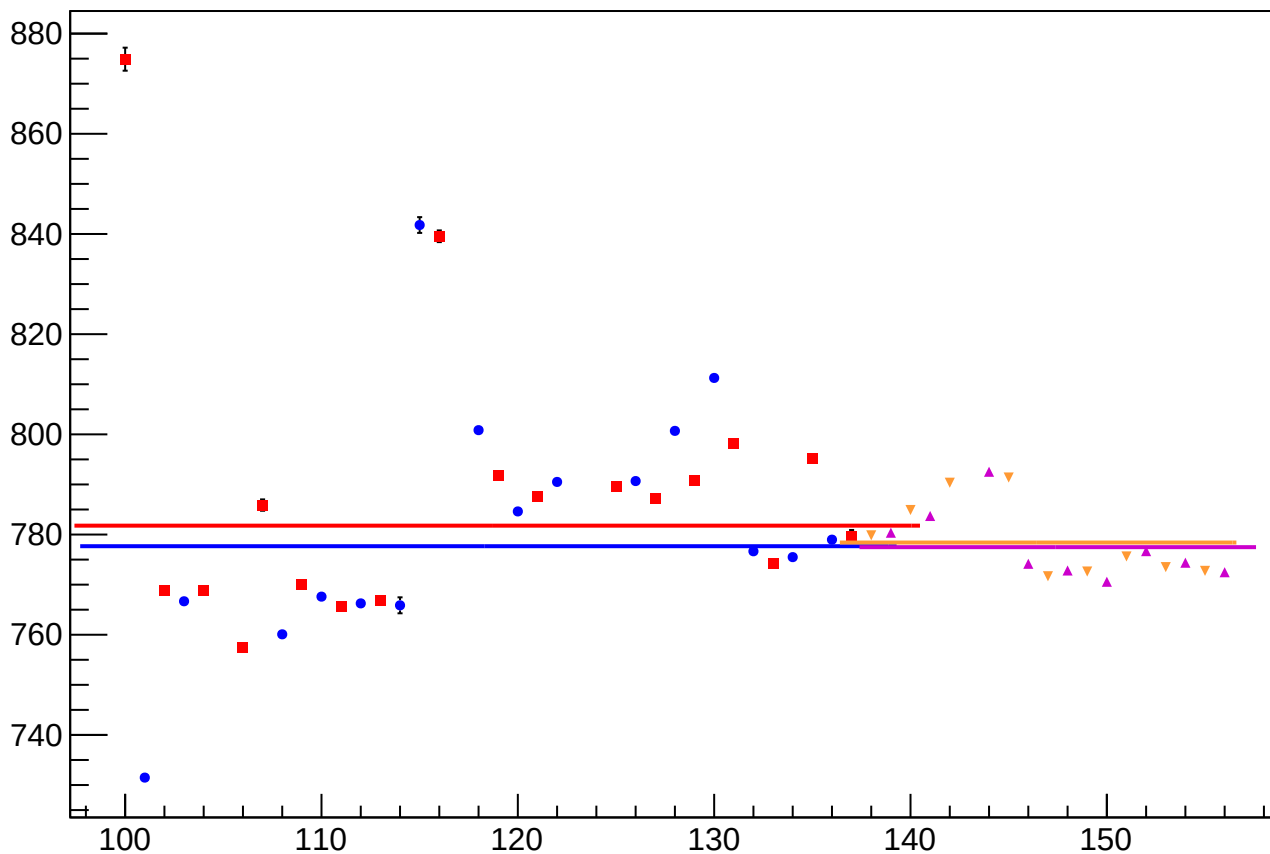
Right: -211.707 ± 204.010 $\chi^2/\text{NDF}: 20.0/33$

In: -490.534 ± 200.198 $\chi^2/\text{NDF}: 18.5/24$

Out: -140.235 ± 205.554 $\chi^2/\text{NDF}: 17.8/26$

All: -320.008 ± 143.418 $\chi^2/\text{NDF}: 37.8/51$

reg_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 778.408 $\pm$ 0.207 χ^2 /NDF:1156.1/8

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

Left In: 777.484 $\pm$ 0.196 χ^2 /NDF:1122.0/8

Left: 777.920 $\pm$ 0.143 χ^2 /NDF: 2288.6/17

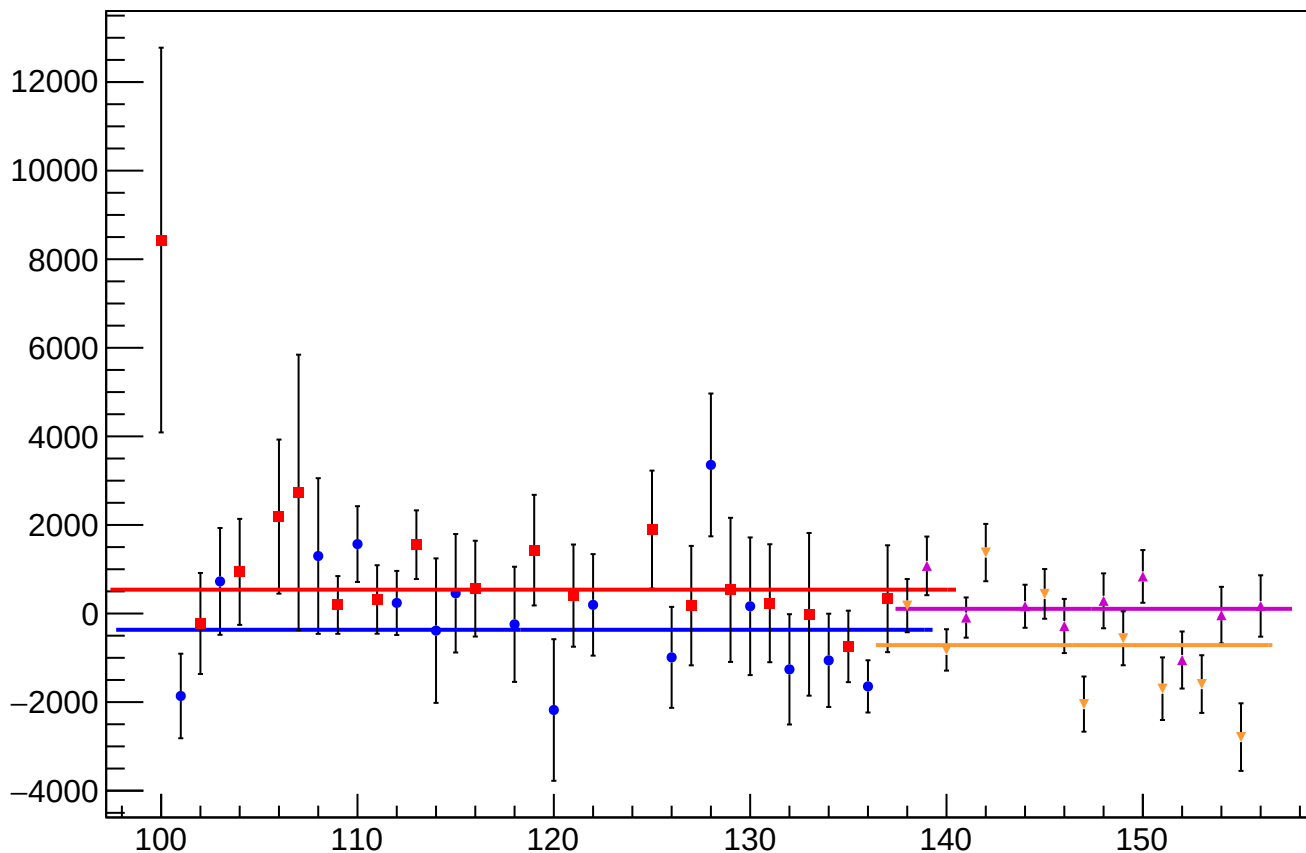
Right: 779.732 $\pm$ 0.144 χ^2 /NDF: 19883.9/33

In: 777.575 $\pm$ 0.142 χ^2 /NDF:13177.9/24

Out: 780.123 $\pm$ 0.145 χ^2 /NDF:8916.6/26

All: 778.816 $\pm$ 0.101 χ^2 /NDF: 22252.2/51

asym_us_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -367.008 $\pm$ 266.698 χ^2 /NDF: 23.3/15

Left Out: -713.052 $\pm$ 202.999 χ^2 /NDF:32.7/8

Right Out: 538.887 $\pm$ 262.907 χ^2 /NDF: 11.7/17

Left In: 106.312 $\pm$ 194.609 χ^2 /NDF:7.6/8

Left: -286.088 $\pm$ 140.482 χ^2 /NDF: 48.8/17

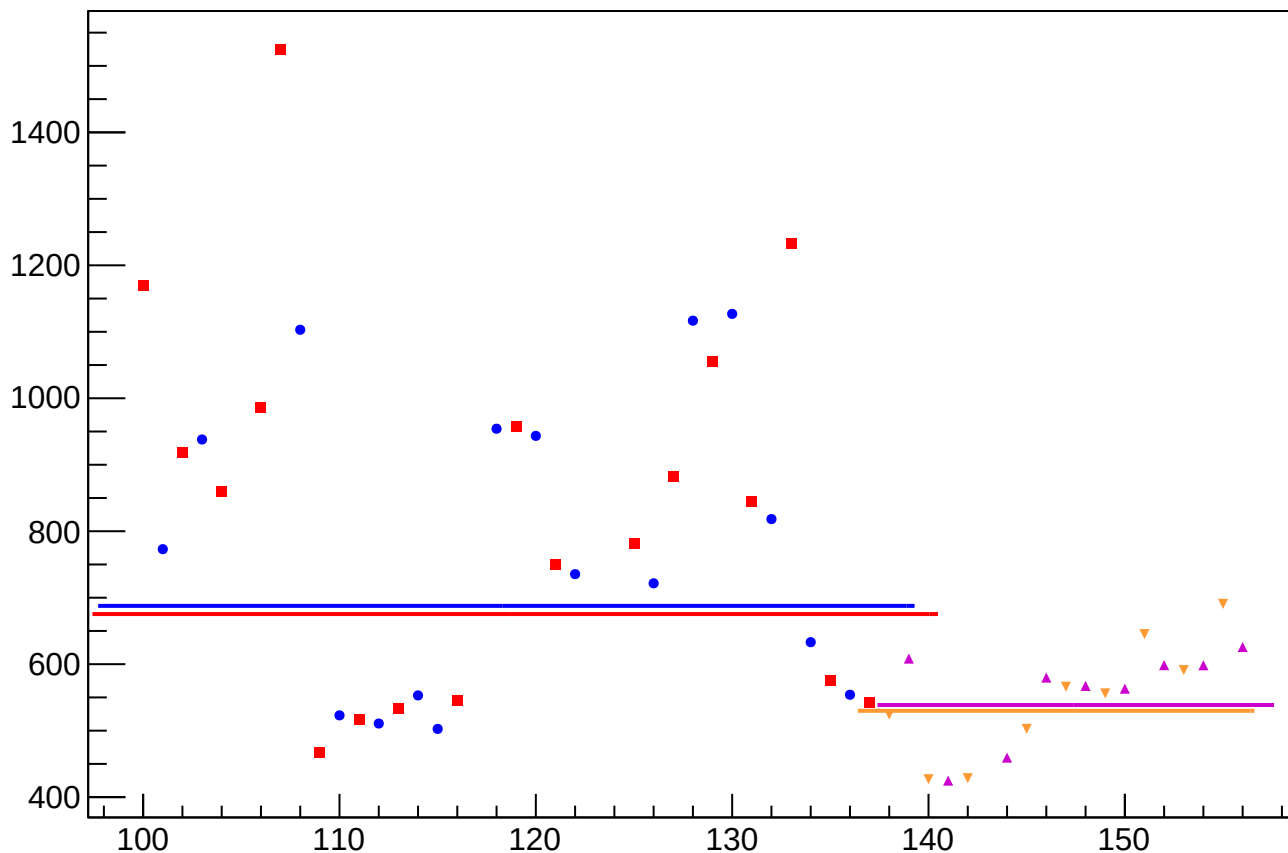
Right: 92.424 $\pm$ 187.229 χ^2 /NDF: 40.8/33

In: -58.145 $\pm$ 157.206 χ^2 /NDF:33.0/24

Out: -245.442 $\pm$ 160.676 χ^2 /NDF:58.6/26

All: -149.749 $\pm$ 112.368 χ^2 /NDF: 92.3/51

asym_us_dd_reg_correction_rms vs Slug, Sign Corrected



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

Left Out: 529.885+/-0.144 χ^2/NDF : 321232.7/8

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

Left In: 538.591+/-0.138 χ^2/NDF : 284086.8/8

Left: 534.422+/-0.099 χ^2/NDF : 607236.3/17

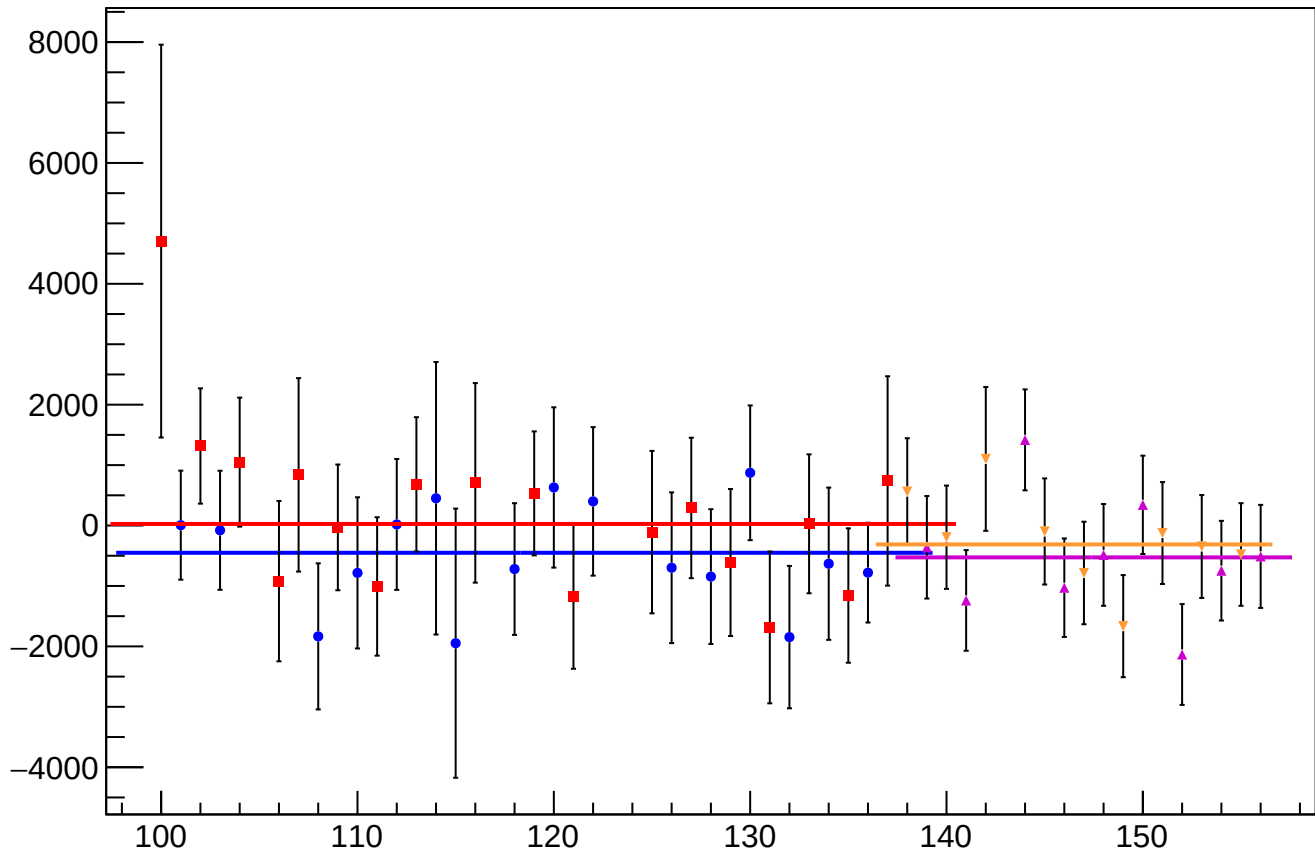
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 590.405+/-0.111 χ^2/NDF : 1724036.3/24

Out: 584.240+/-0.114 χ^2/NDF : 2018132.4/26

All: 587.390+/-0.079 χ^2/NDF : 3743673.3/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -312.757+/-293.388 χ^2/NDF : 5.4/8

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

Left In: -527.075+/-277.635 χ^2/NDF : 11.5/8

Left: -425.824+/-201.657 χ^2/NDF : 17.2/17

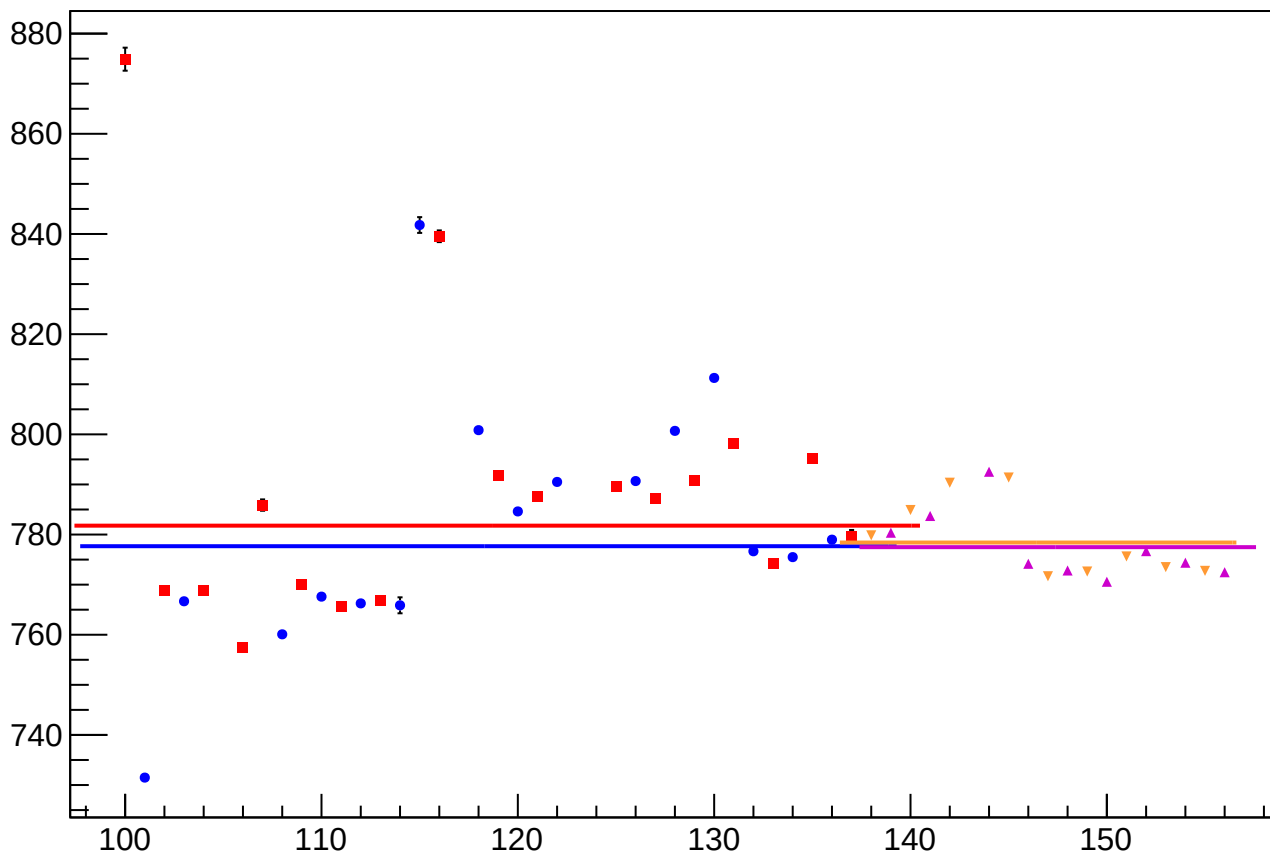
Right: -211.707+/-204.010 χ^2/NDF : 20.0/33

In: -490.534+/-200.198 χ^2/NDF : 18.5/24

Out: -140.235+/-205.554 χ^2/NDF : 17.8/26

All: -320.008+/-143.418 χ^2/NDF : 37.8/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 778.408 $\pm$ 0.207 χ^2 /NDF: 1156.1/8

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

Left In: 777.484 $\pm$ 0.196 χ^2 /NDF: 1122.0/8

Left: 777.920 $\pm$ 0.143 χ^2 /NDF: 2288.6/17

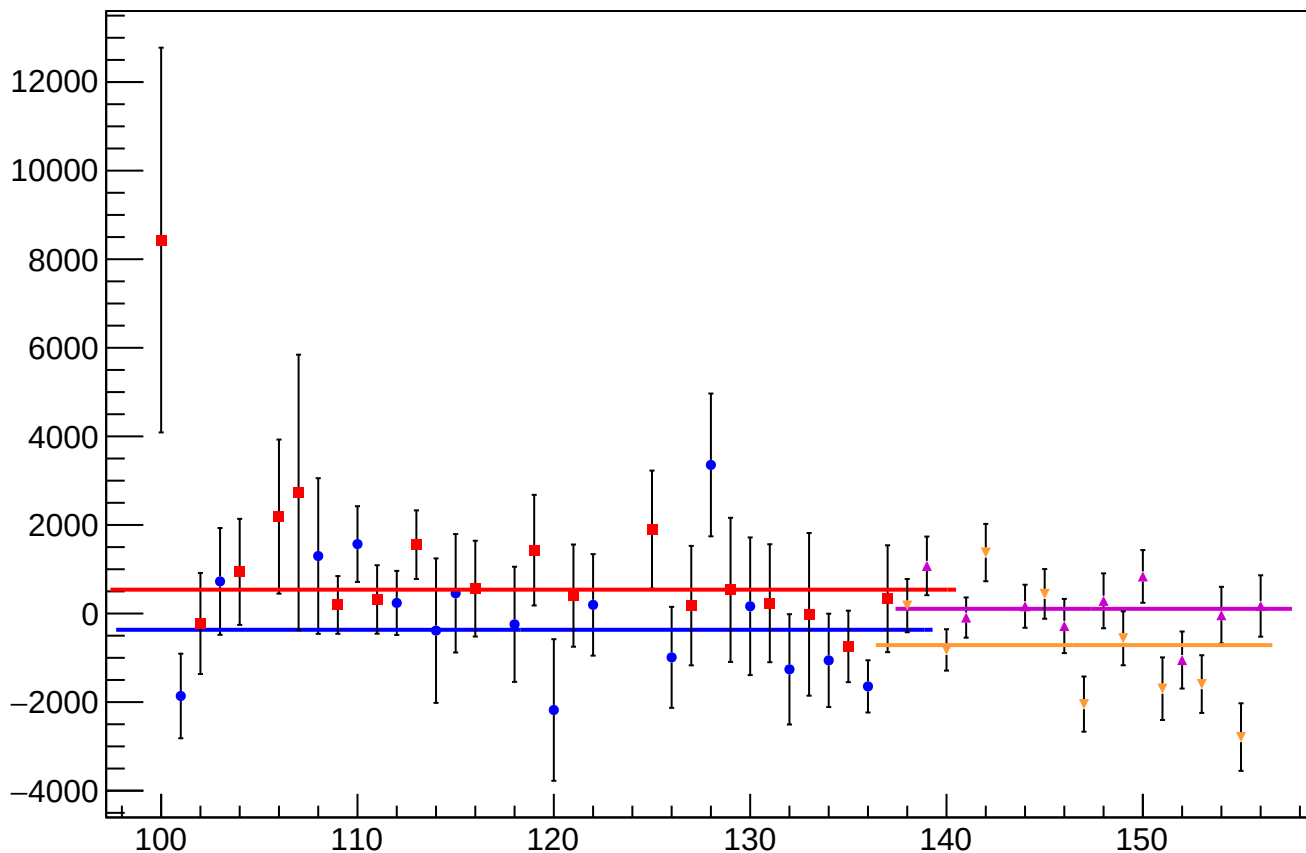
Right: 779.732 $\pm$ 0.144 χ^2 /NDF: 19883.9/33

In: 777.575 $\pm$ 0.142 χ^2 /NDF: 13177.9/24

Out: 780.123 $\pm$ 0.145 χ^2 /NDF: 8916.6/26

All: 778.816 $\pm$ 0.101 χ^2 /NDF: 22252.2/51

asym_us_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 $\pm$ 266.698 χ^2 /NDF: 23.3/15

Left Out: -713.052 $\pm$ 202.999 χ^2 /NDF:32.7/8

Right Out: 538.887 $\pm$ 262.907 χ^2 /NDF: 11.7/17

Left In: 106.312 $\pm$ 194.609 χ^2 /NDF:7.6/8

Left: -286.088 $\pm$ 140.482 χ^2 /NDF: 48.8/17

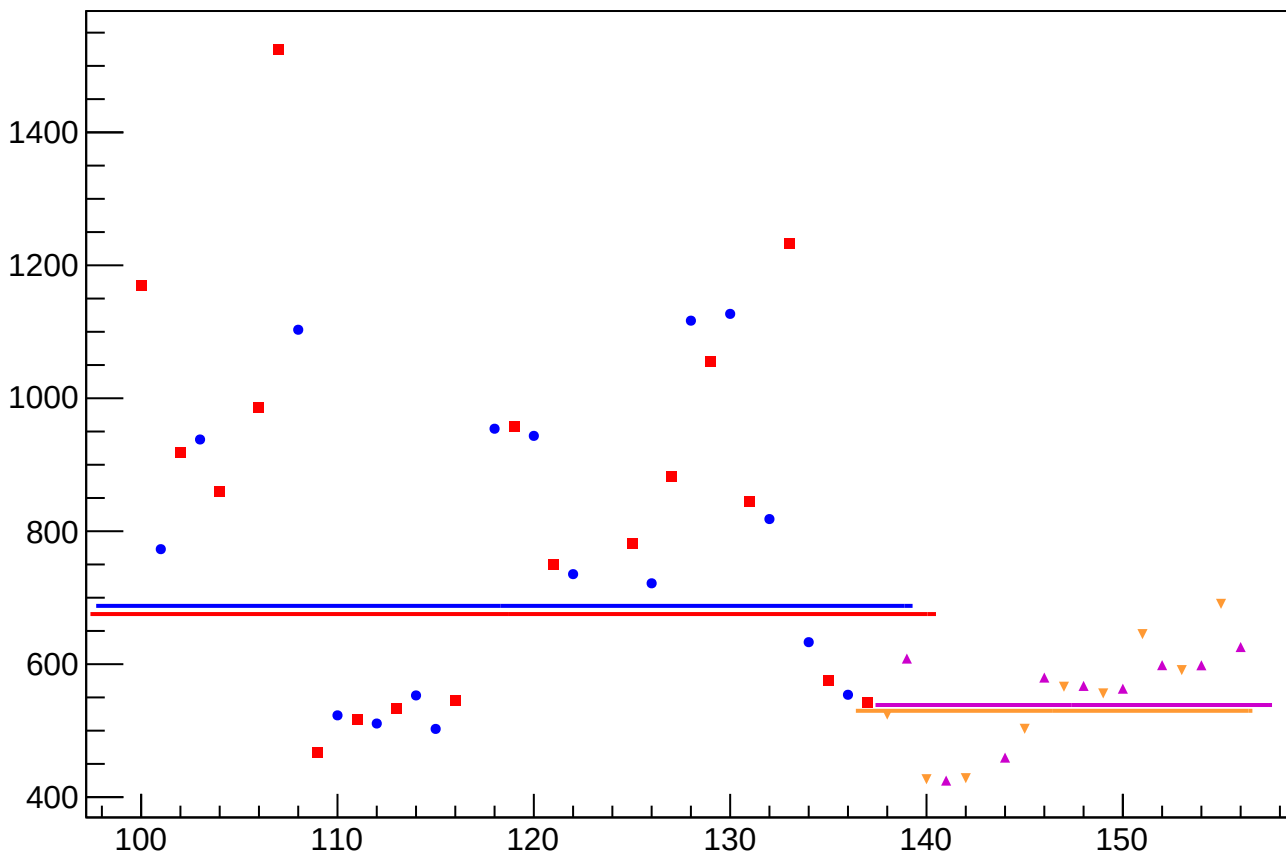
Right: 92.424 $\pm$ 187.229 χ^2 /NDF: 40.8/33

In: -58.145 $\pm$ 157.206 χ^2 /NDF:33.0/24

Out: -245.442 $\pm$ 160.676 χ^2 /NDF:58.6/26

All: -149.749 $\pm$ 112.368 χ^2 /NDF: 92.3/51

asym_us_dd_cor_correction_rms vs Slug, Sign Corrected



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

Left Out: 529.885 ± 0.144 χ^2/NDF : 321232.7/8

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

Left In: 538.591 ± 0.138 χ^2/NDF : 284086.8/8

Left: 534.422 ± 0.099 χ^2/NDF : 607236.3/17

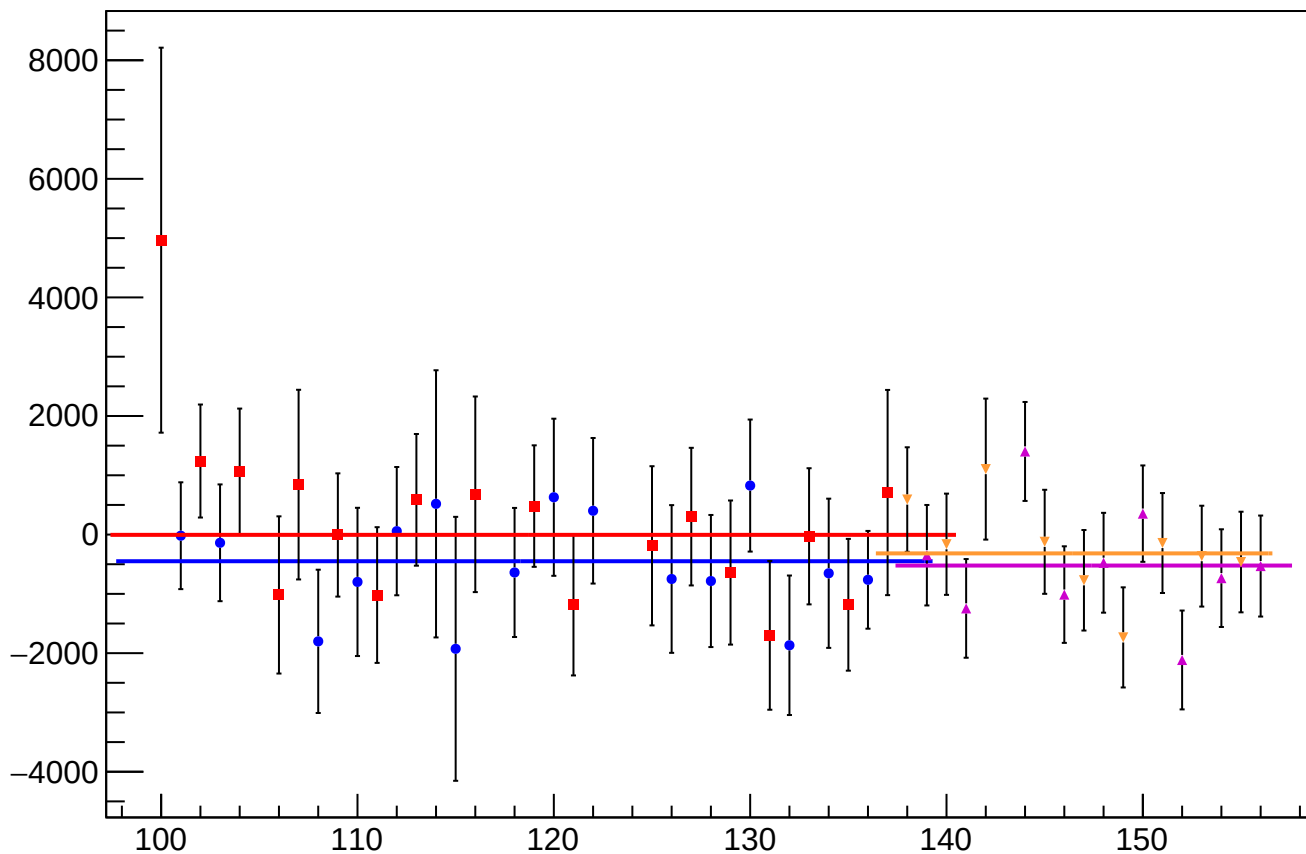
Right: 681.475 ± 0.132 χ^2/NDF : 2347071.2/33

In: 590.405 ± 0.111 χ^2/NDF : 1724036.3/24

Out: 584.240 ± 0.114 χ^2/NDF : 2018132.4/26

All: 587.390 ± 0.079 χ^2/NDF : 3743673.3/51

overload_cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -317.268+/-293.131 χ^2/NDF : 5.7/8

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

Left In: -522.378+/-277.411 χ^2/NDF : 11.4/8

Left: -425.470+/-201.488 χ^2/NDF : 17.4/17

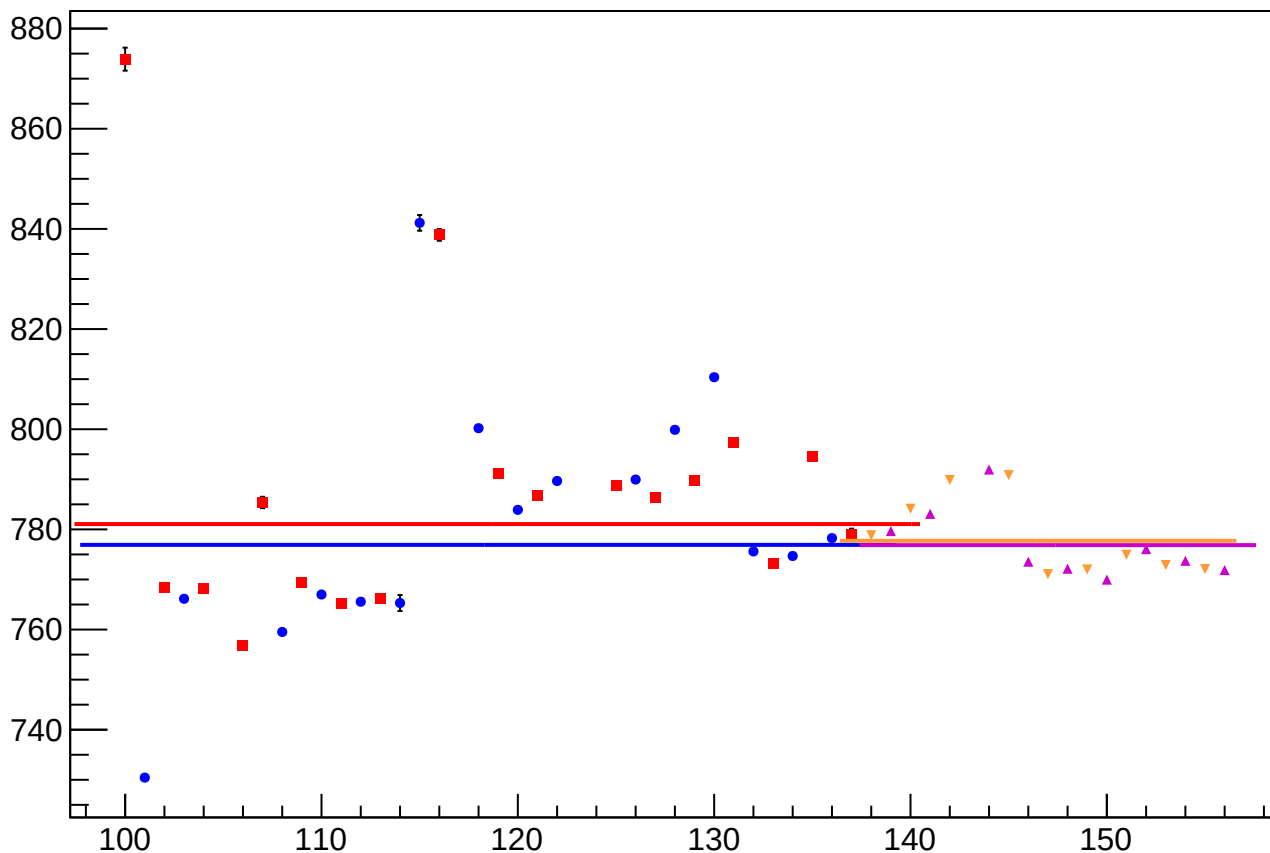
Right: -226.380+/-203.817 χ^2/NDF : 19.8/33

In: -487.354+/-200.021 χ^2/NDF : 18.1/24

Out: -158.097+/-205.370 χ^2/NDF : 18.2/26

All: -327.069+/-143.290 χ^2/NDF : 37.6/51

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: 777.726 $\pm$ 0.207 χ^2/NDF :1161.2/8

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

Left In: 776.857 $\pm$ 0.196 χ^2/NDF :1127.1/8

Left: 777.268 $\pm$ 0.142 χ^2/NDF : 2297.6/17

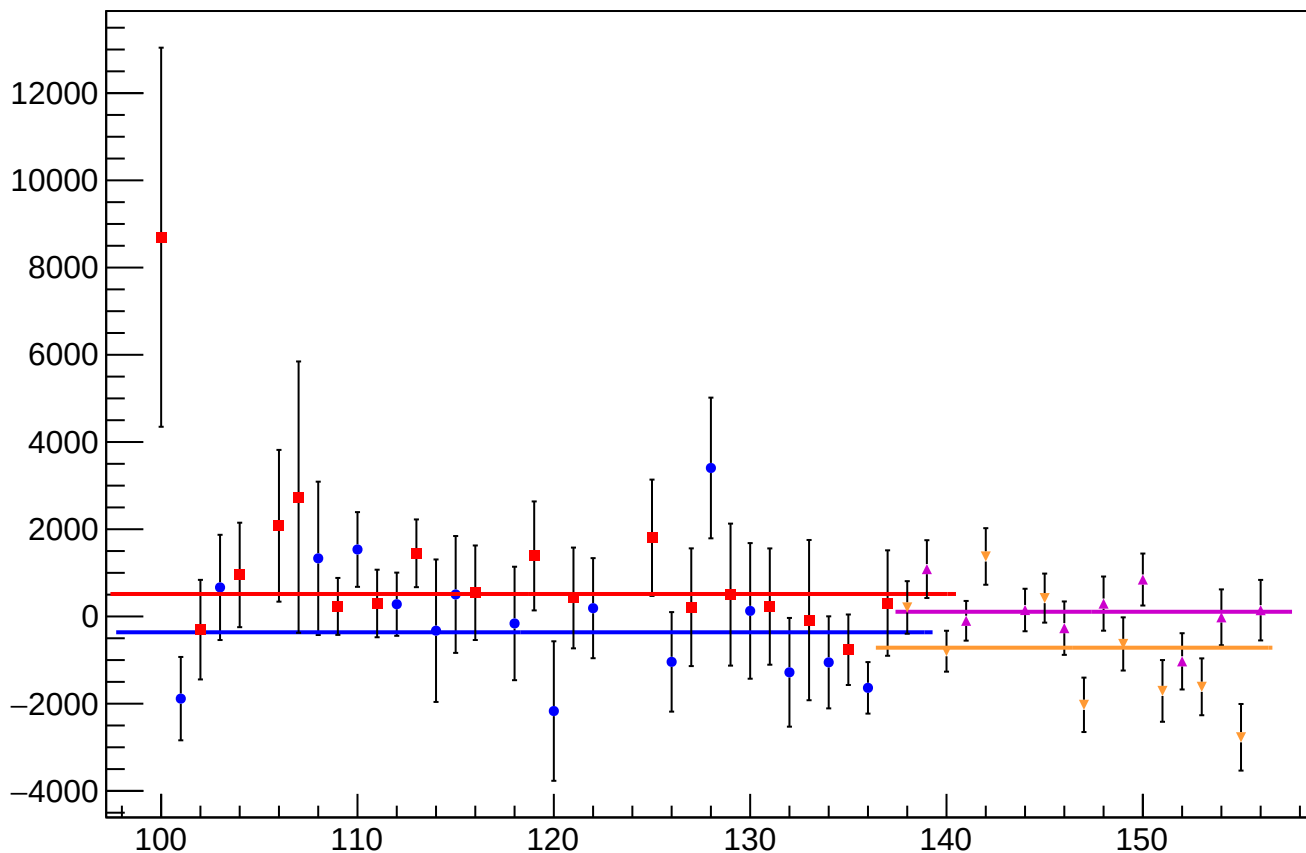
Right: 778.993 $\pm$ 0.144 χ^2/NDF : 19916.4/33

In: 776.884 $\pm$ 0.141 χ^2/NDF :13250.7/24

Out: 779.424 $\pm$ 0.145 χ^2/NDF :8878.8/26

All: 778.120 $\pm$ 0.101 χ^2/NDF : 22286.5/51

asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -362.811+/-267.086 χ^2/NDF : 23.4/15

Left Out: -716.363+/-203.421 χ^2/NDF : 32.4/8

Right Out: 515.295+/-263.302 χ^2/NDF : 11.4/17

Left In: 107.422+/-194.954 χ^2/NDF : 7.5/8

Left: -286.970+/-140.752 χ^2/NDF : 48.5/17

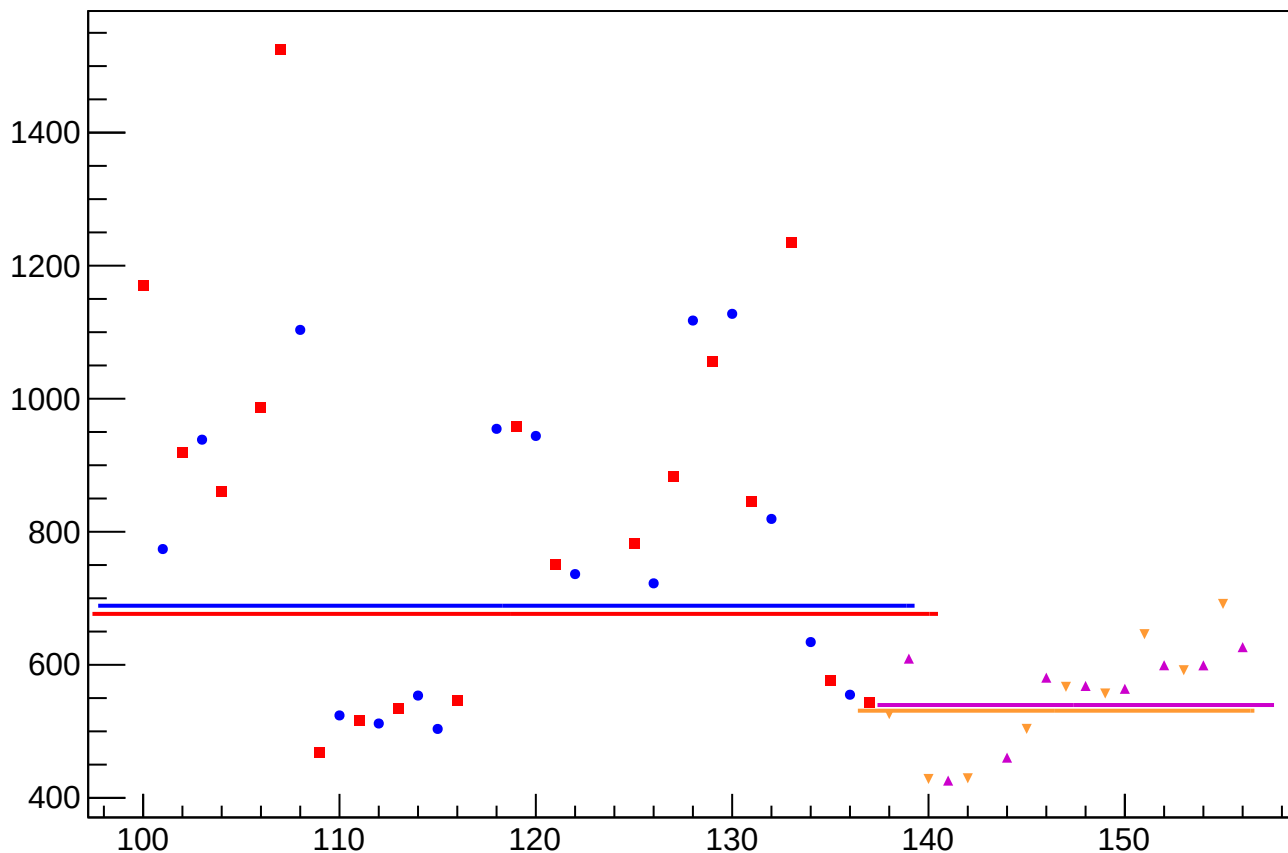
Right: 82.506+/-187.506 χ^2/NDF : 40.2/33

In: -56.031+/-157.467 χ^2/NDF : 32.9/24

Out: -255.997+/-160.976 χ^2/NDF : 57.5/26

All: -153.811+/-112.566 χ^2/NDF : 91.2/51

asym_us_dd_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 688.828 $\pm$ 0.189 χ^2 /NDF: 1028118.5/15

Left Out: 531.058 $\pm$ 0.144 χ^2 /NDF:318549.5/8

Right Out: 676.572 $\pm$ 0.186 χ^2 /NDF: 1308036.1/17

Left In: 539.590 $\pm$ 0.138 χ^2 /NDF:282096.2/8

Left: 535.505 $\pm$ 0.100 χ^2 /NDF: 602479.5/17

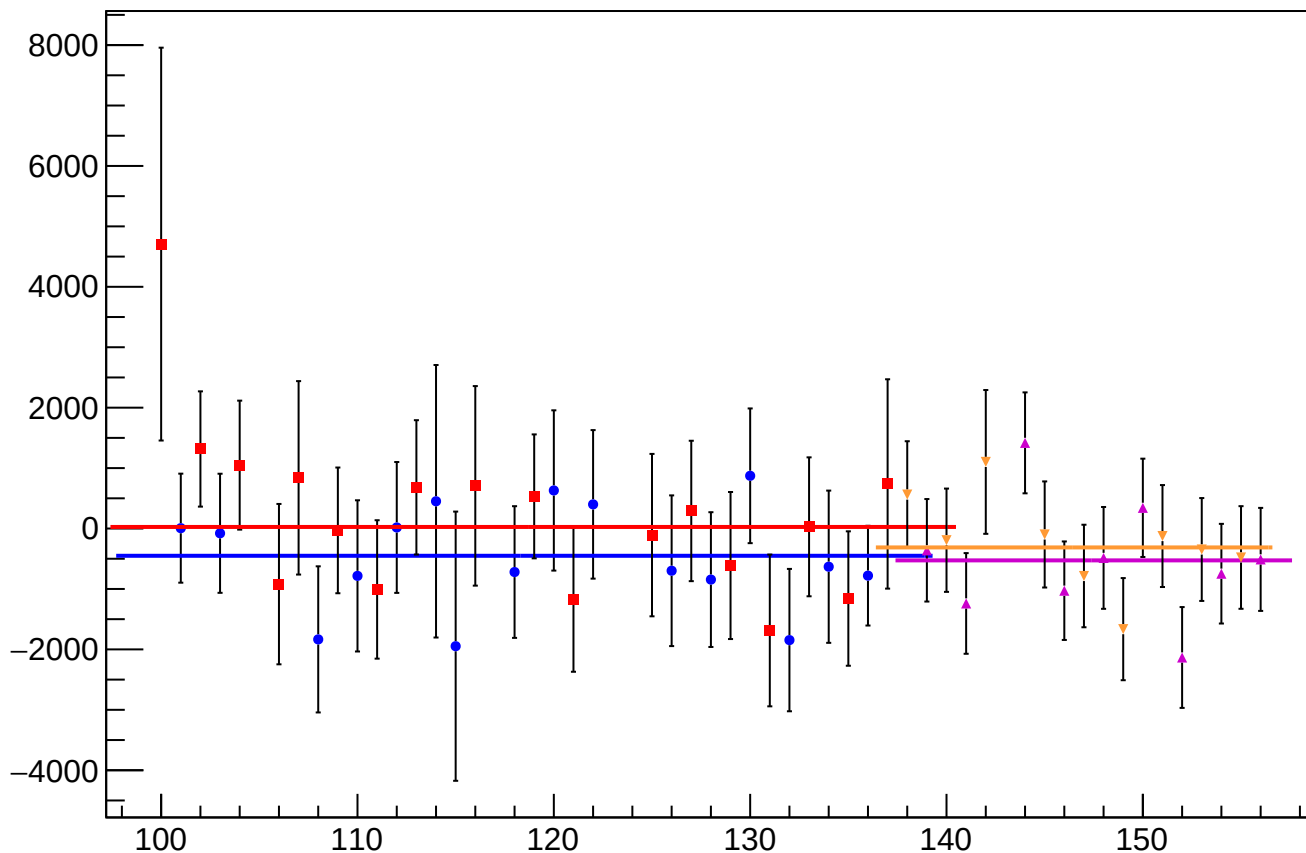
Right: 682.613 $\pm$ 0.133 χ^2 /NDF: 2338290.5/33

In: 591.465 $\pm$ 0.111 χ^2 /NDF:1717601.5/24

Out: 585.448 $\pm$ 0.114 χ^2 /NDF:2009110.3/26

All: 588.523 $\pm$ 0.080 χ^2 /NDF: 3728139.7/51

eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -312.757 ± 293.388 χ^2/NDF : 5.4/8

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

Left In: -527.075 ± 277.635 χ^2/NDF : 11.5/8

Left: -425.824 ± 201.657 χ^2/NDF : 17.2/17

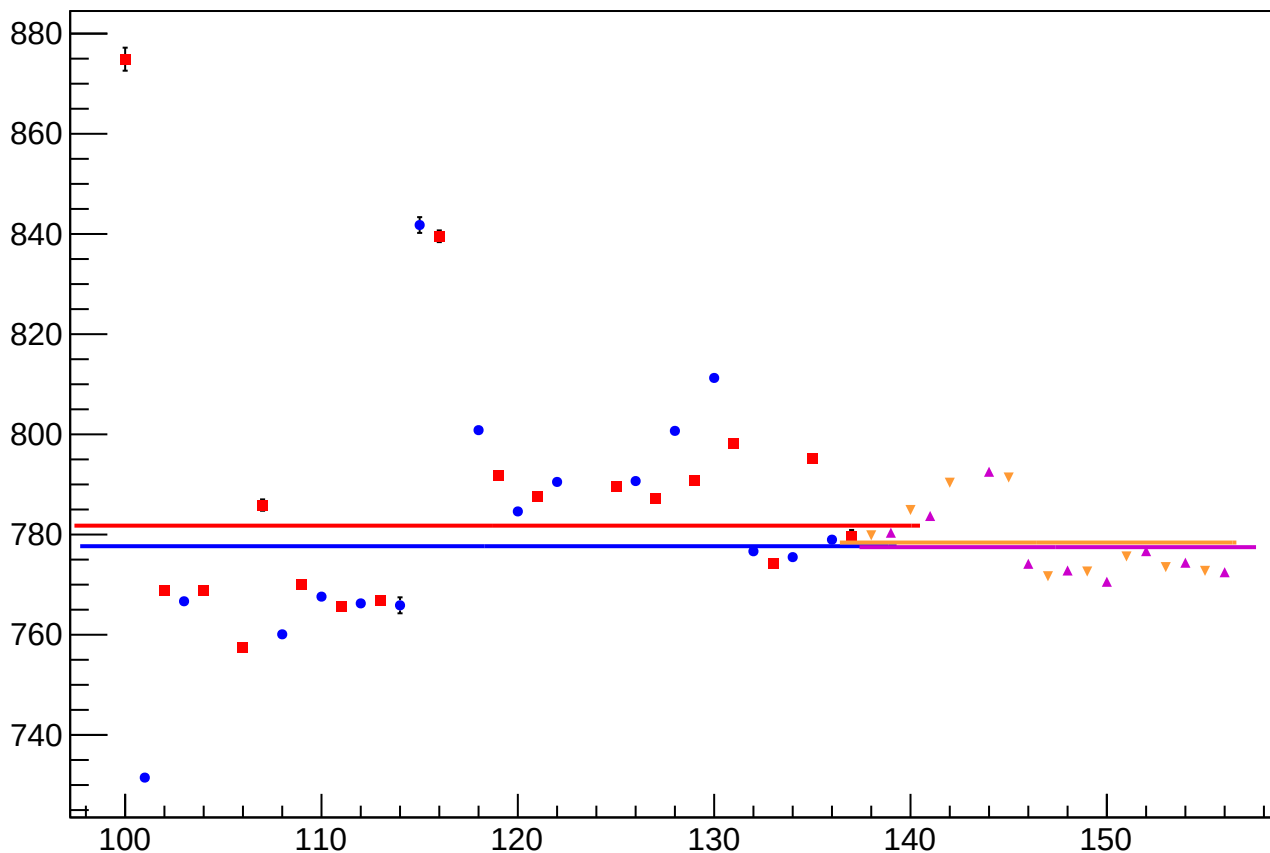
Right: -211.707 ± 204.010 χ^2/NDF : 20.0/33

In: -490.534 ± 200.198 χ^2/NDF : 18.5/24

Out: -140.235 ± 205.554 χ^2/NDF : 17.8/26

All: -320.008 ± 143.418 χ^2/NDF : 37.8/51

eigen_cor_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 778.408 +/- 0.207 χ^2/NDF : 1156.1/8

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

Left In: 777.484 +/- 0.196 χ^2/NDF : 1122.0/8

Left: 777.920 +/- 0.143 χ^2/NDF : 2288.6/17

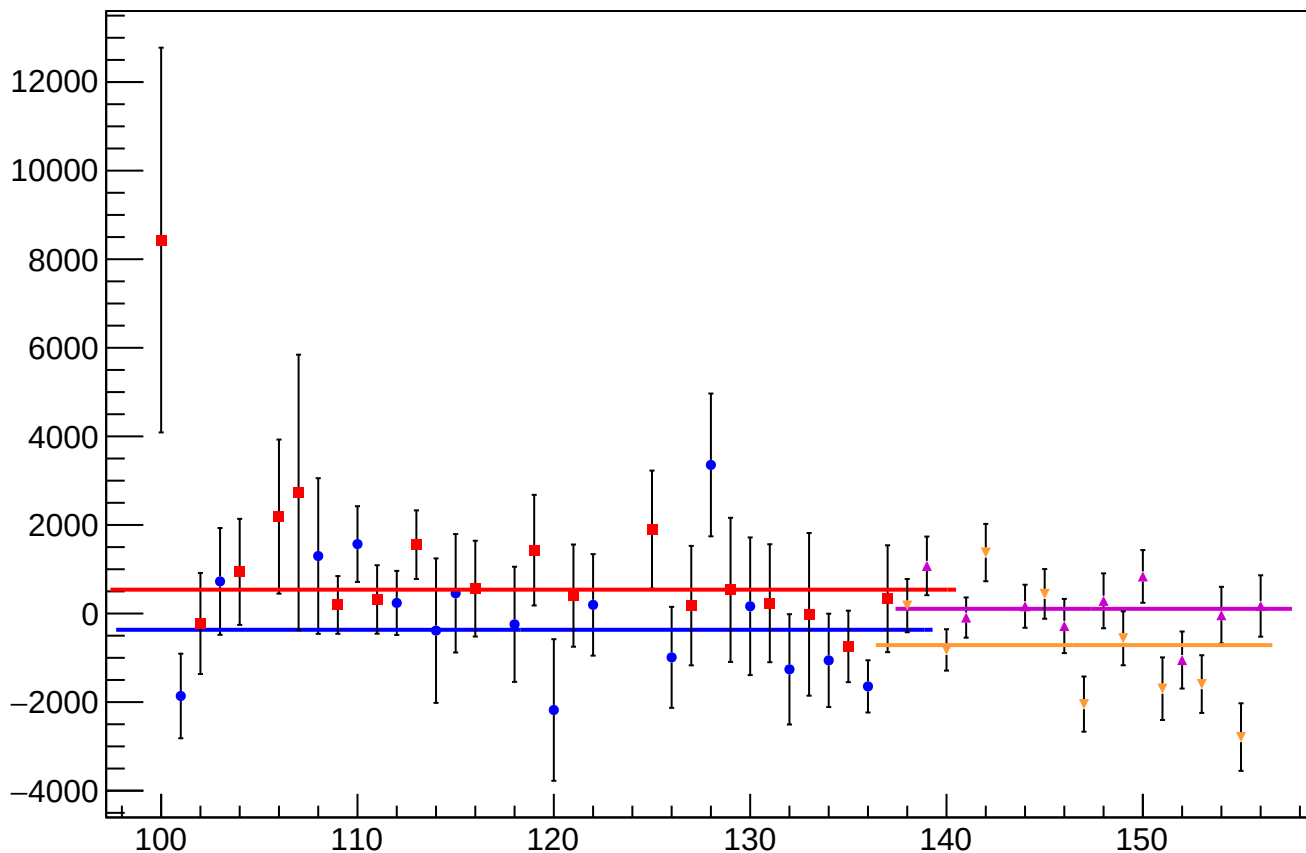
Right: 779.732 +/- 0.144 χ^2/NDF : 19883.9/33

In: 777.575 +/- 0.142 χ^2/NDF : 13177.9/24

Out: 780.123 +/- 0.145 χ^2/NDF : 8916.6/26

All: 778.816 +/- 0.101 χ^2/NDF : 22252.2/51

asym_us_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 $\pm$ 266.698 χ^2 /NDF: 23.3/15

Left Out: -713.052 $\pm$ 202.999 χ^2 /NDF:32.7/8

Right Out: 538.887 $\pm$ 262.907 χ^2 /NDF: 11.7/17

Left In: 106.312 $\pm$ 194.609 χ^2 /NDF:7.6/8

Left: -286.088 $\pm$ 140.482 χ^2 /NDF: 48.8/17

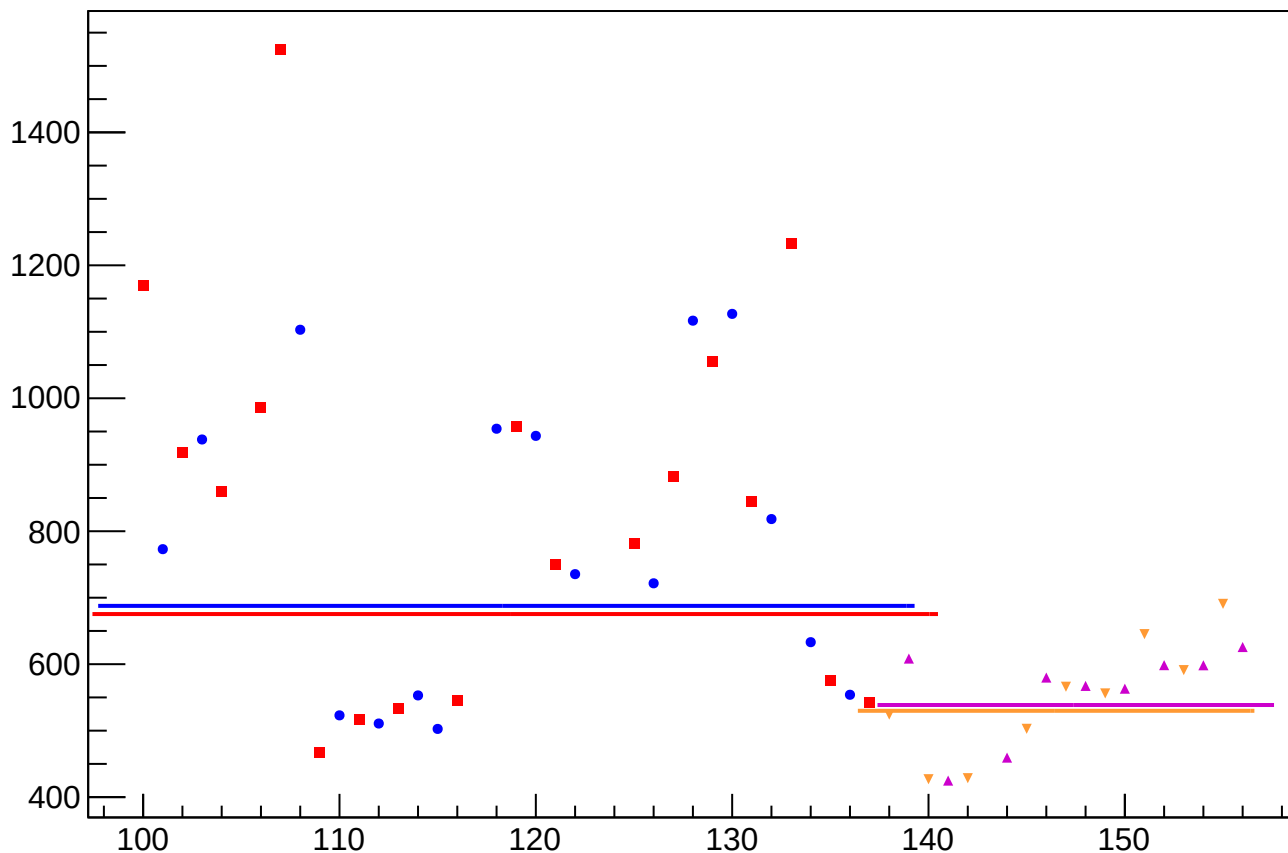
Right: 92.424 $\pm$ 187.229 χ^2 /NDF: 40.8/33

In: -58.145 $\pm$ 157.206 χ^2 /NDF:33.0/24

Out: -245.442 $\pm$ 160.676 χ^2 /NDF:58.6/26

All: -149.749 $\pm$ 112.368 χ^2 /NDF: 92.3/51

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: 529.885+/-0.144 χ^2/NDF : 321232.7/8

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

Left In: 538.591+/-0.138 χ^2/NDF : 284086.8/8

Left: 534.422+/-0.099 χ^2/NDF : 607236.3/17

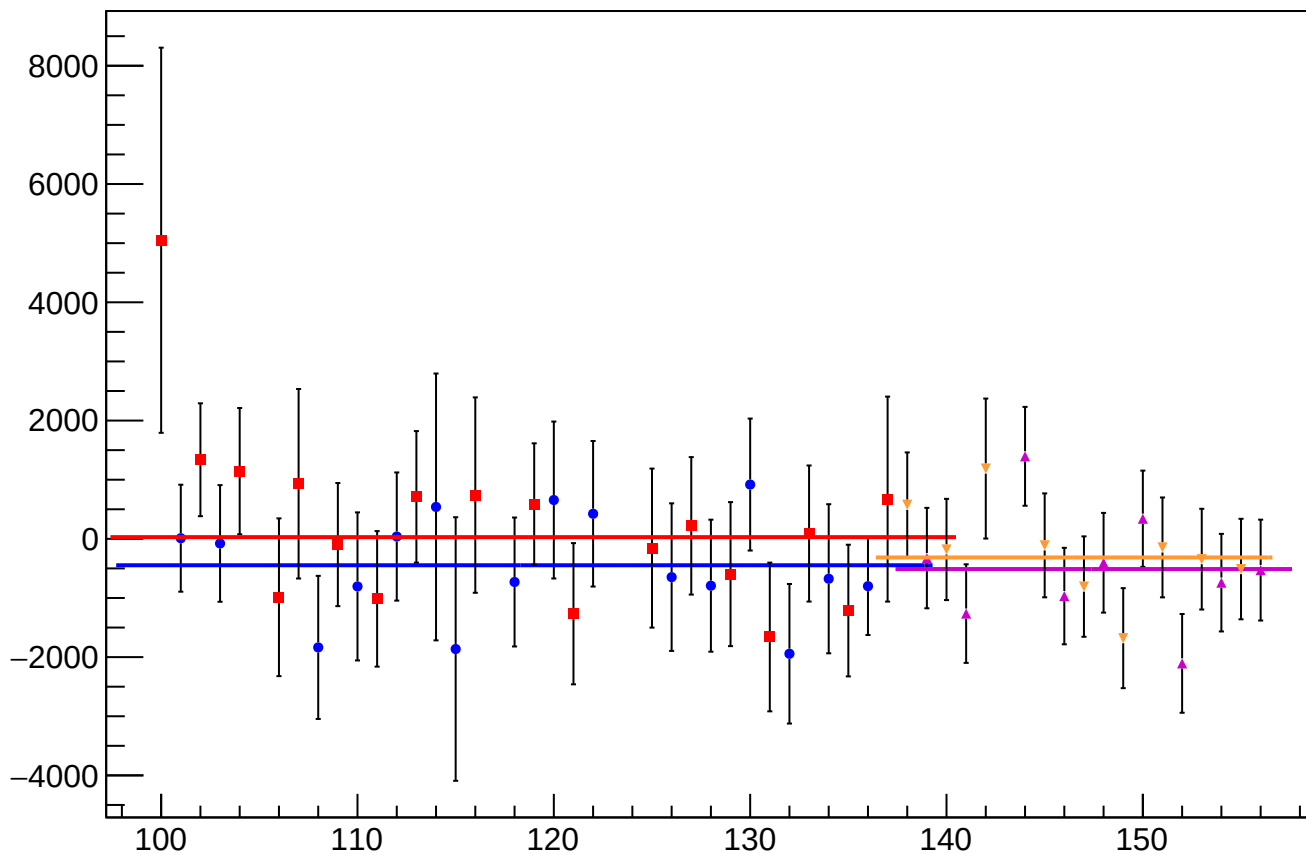
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 590.405+/-0.111 χ^2/NDF : 1724036.3/24

Out: 584.240+/-0.114 χ^2/NDF : 2018132.4/26

All: 587.390+/-0.079 χ^2/NDF : 3743673.3/51

dit_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -315.088 ± 293.576 χ^2/NDF : 5.7/8

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

Left In: -510.797 ± 277.847 χ^2/NDF : 11.2/8

Left: -418.325 ± 201.799 χ^2/NDF : 17.2/17

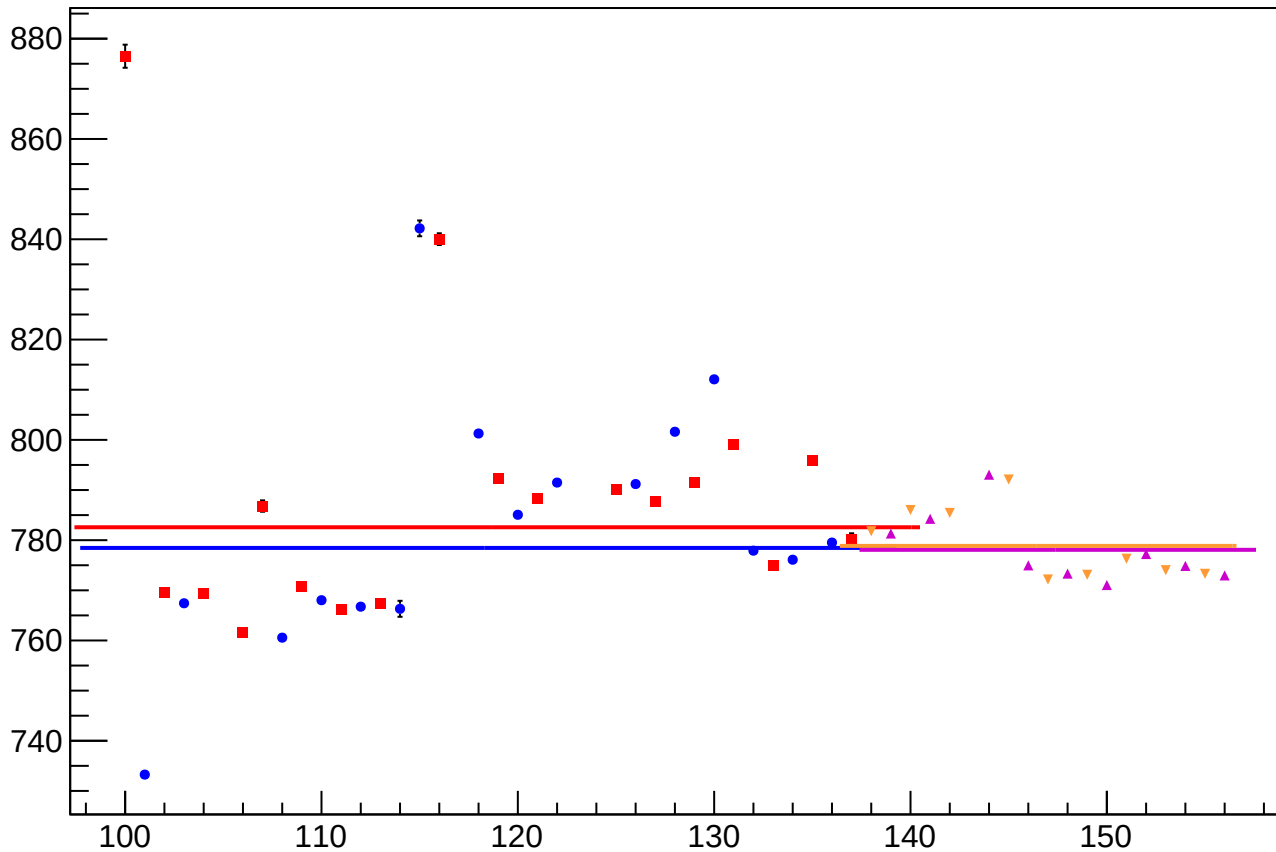
Right: -208.223 ± 204.216 χ^2/NDF : 21.3/33

In: -480.016 ± 200.374 χ^2/NDF : 18.5/24

Out: -140.076 ± 205.725 χ^2/NDF : 19.1/26

All: -314.524 ± 143.540 χ^2/NDF : 39.0/51

dit_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 778.860+/-0.208 χ^2/NDF : 1063.4/8

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

Left In: 778.078+/-0.196 χ^2/NDF : 1126.9/8

Left: 778.448+/-0.143 χ^2/NDF : 2197.8/17

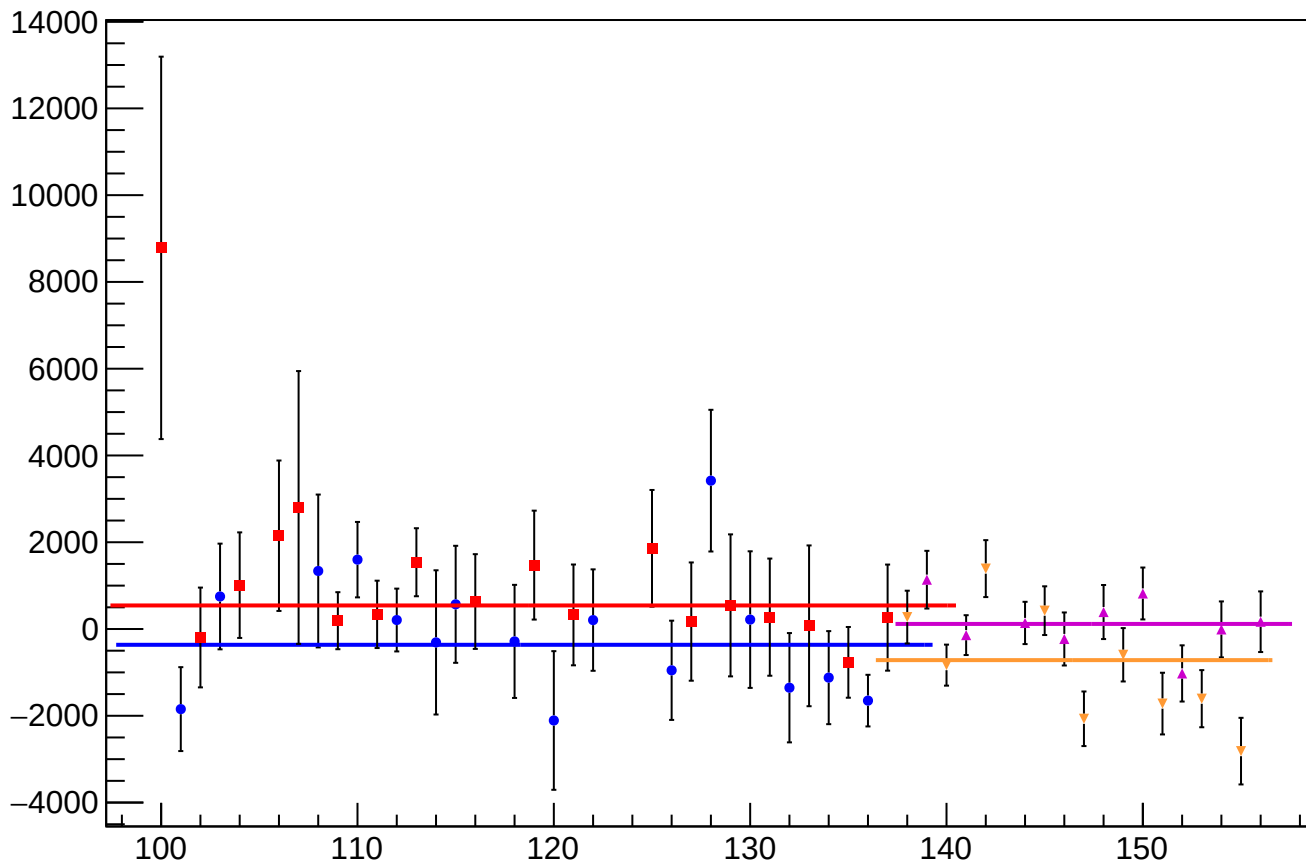
Right: 780.522+/-0.144 χ^2/NDF : 19480.1/33

In: 778.259+/-0.142 χ^2/NDF : 12923.9/24

Out: 780.751+/-0.145 χ^2/NDF : 8707.8/26

All: 779.472+/-0.101 χ^2/NDF : 21782.2/51

asym_us_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -363.977 $\pm$ 269.316 χ^2 /NDF: 23.3/15

Left Out: -717.366 $\pm$ 204.901 χ^2 /NDF:33.1/8

Right Out: 542.879 $\pm$ 265.273 χ^2 /NDF: 11.8/17

Left In: 116.946 $\pm$ 195.759 χ^2 /NDF:7.7/8

Left: -281.182 $\pm$ 141.544 χ^2 /NDF: 49.5/17

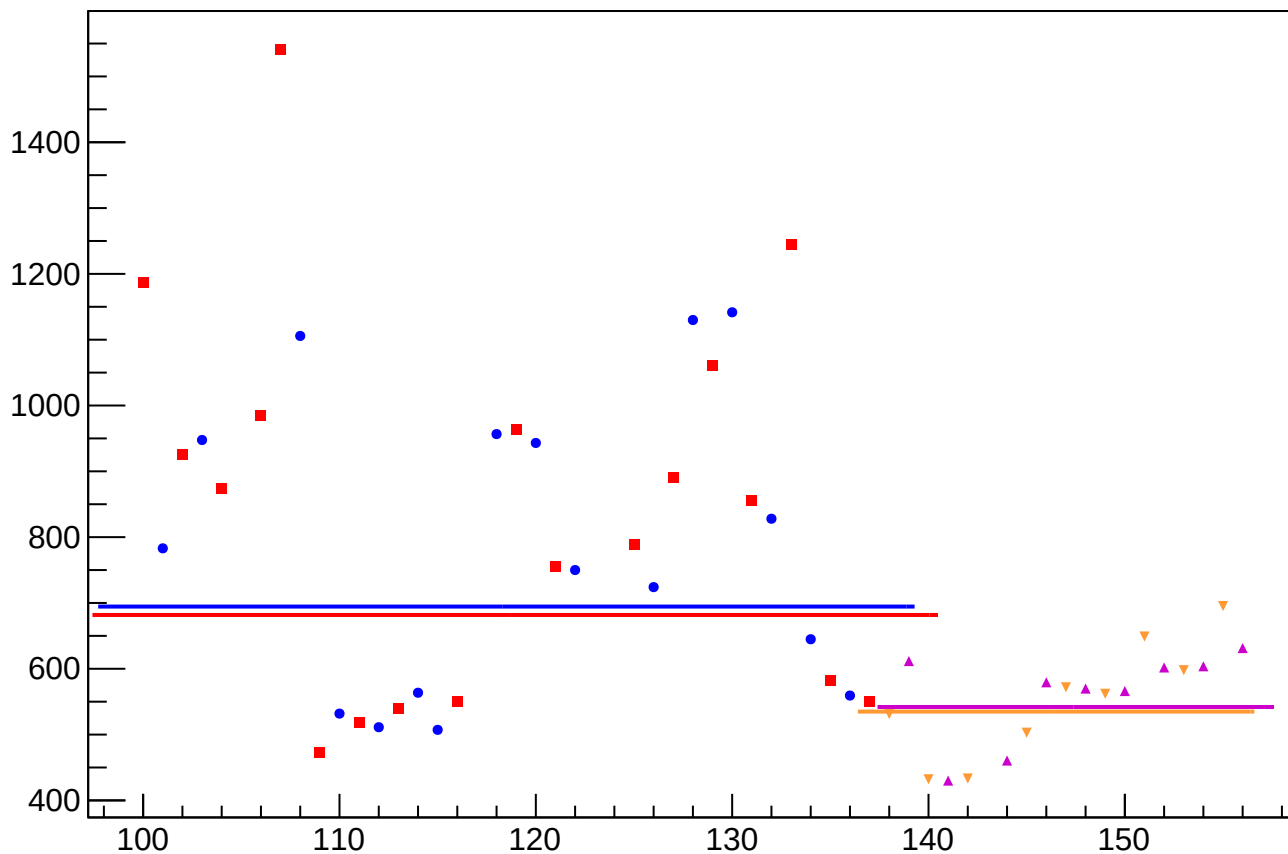
Right: 96.308 $\pm$ 188.989 χ^2 /NDF: 40.8/33

In: -49.308 $\pm$ 158.347 χ^2 /NDF:33.1/24

Out: -246.439 $\pm$ 162.160 χ^2 /NDF:59.0/26

All: -145.529 $\pm$ 113.292 χ^2 /NDF: 92.9/51

asym_us_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 694.522 ± 0.190 $\chi^2/\text{NDF}: 1029884.9/15$

Left Out: 534.933 ± 0.145 $\chi^2/\text{NDF}: 316962.1/8$

Right Out: 681.744 ± 0.188 $\chi^2/\text{NDF}: 1311322.6/17$

Left In: 541.936 ± 0.138 $\chi^2/\text{NDF}: 279673.9/8$

Left: 538.594 ± 0.100 $\chi^2/\text{NDF}: 597857.6/17$

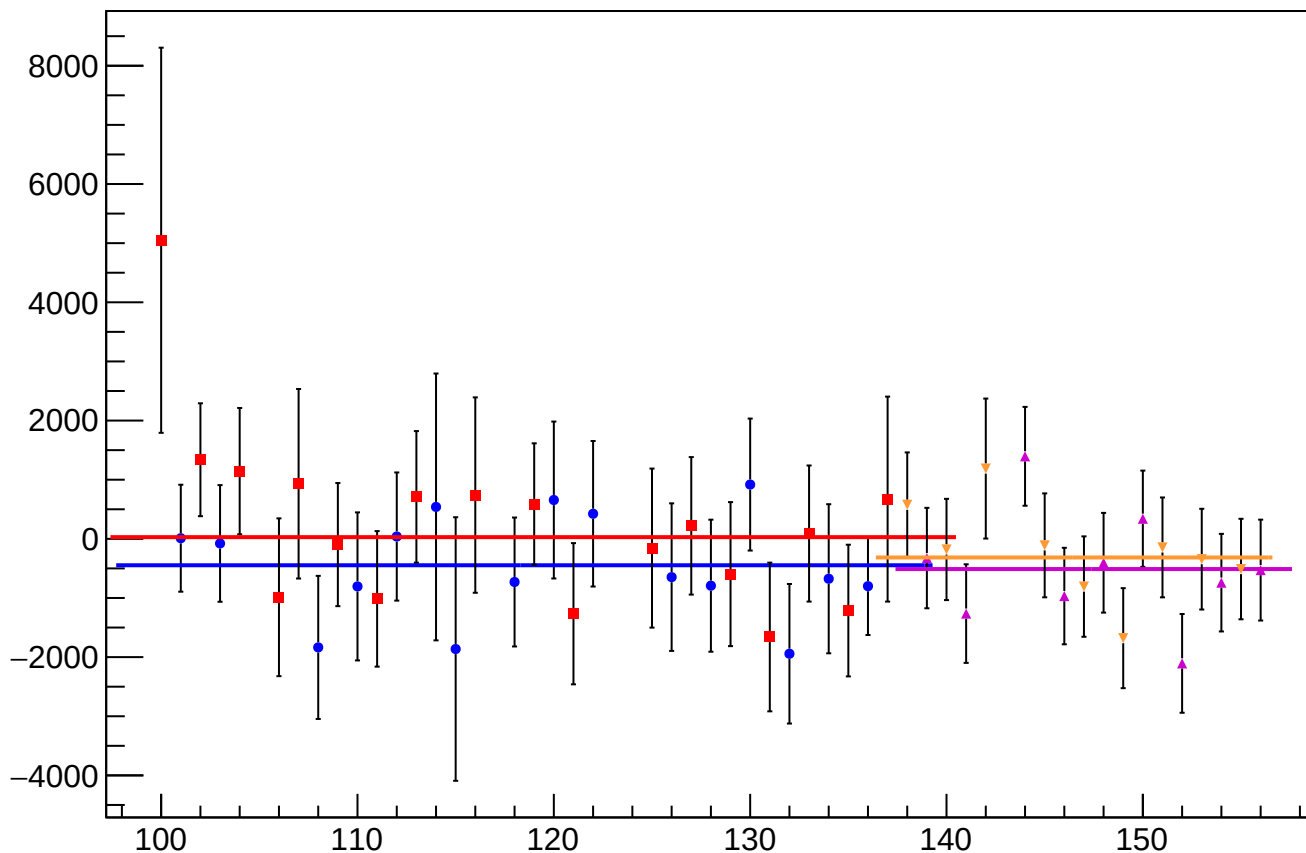
Right: 688.036 ± 0.134 $\chi^2/\text{NDF}: 2343492.9/33$

In: 594.685 ± 0.112 $\chi^2/\text{NDF}: 1729622.0/24$

Out: 589.793 ± 0.115 $\chi^2/\text{NDF}: 2011954.2/26$

All: 592.297 ± 0.080 $\chi^2/\text{NDF}: 3742508.0/51$

eigen_dit_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -315.091+/-293.576 χ^2/NDF : 5.7/8

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

Left In: -510.797+/-277.847 χ^2/NDF : 11.2/8

Left: -418.327+/-201.799 χ^2/NDF : 17.2/17

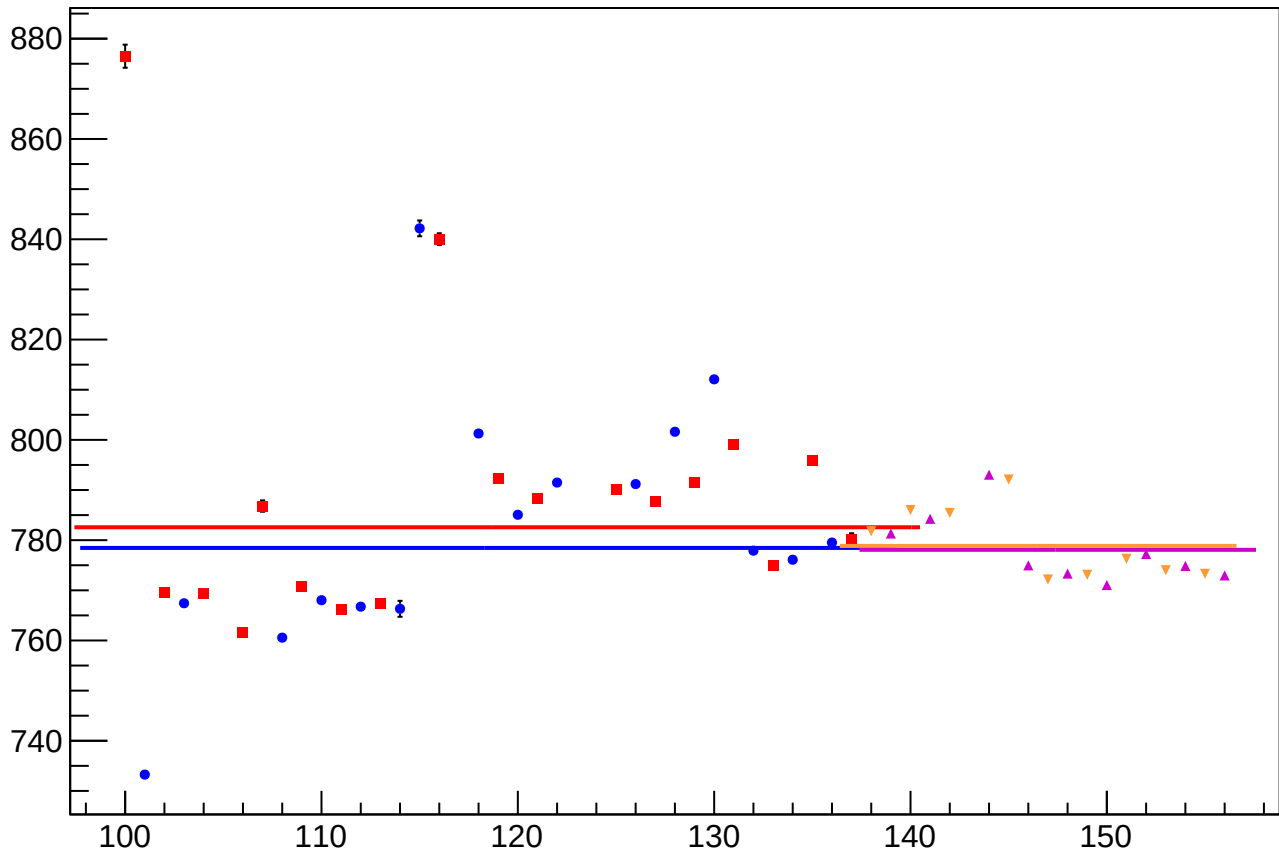
Right: -208.224+/-204.216 χ^2/NDF : 21.3/33

In: -480.015+/-200.374 χ^2/NDF : 18.5/24

Out: -140.078+/-205.725 χ^2/NDF : 19.1/26

All: -314.525+/-143.540 χ^2/NDF : 39.0/51

eigen_dit_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 778.860+/-0.208 χ^2/NDF : 1063.4/8

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

Left In: 778.078+/-0.196 χ^2/NDF : 1126.9/8

Left: 778.448+/-0.143 χ^2/NDF : 2197.8/17

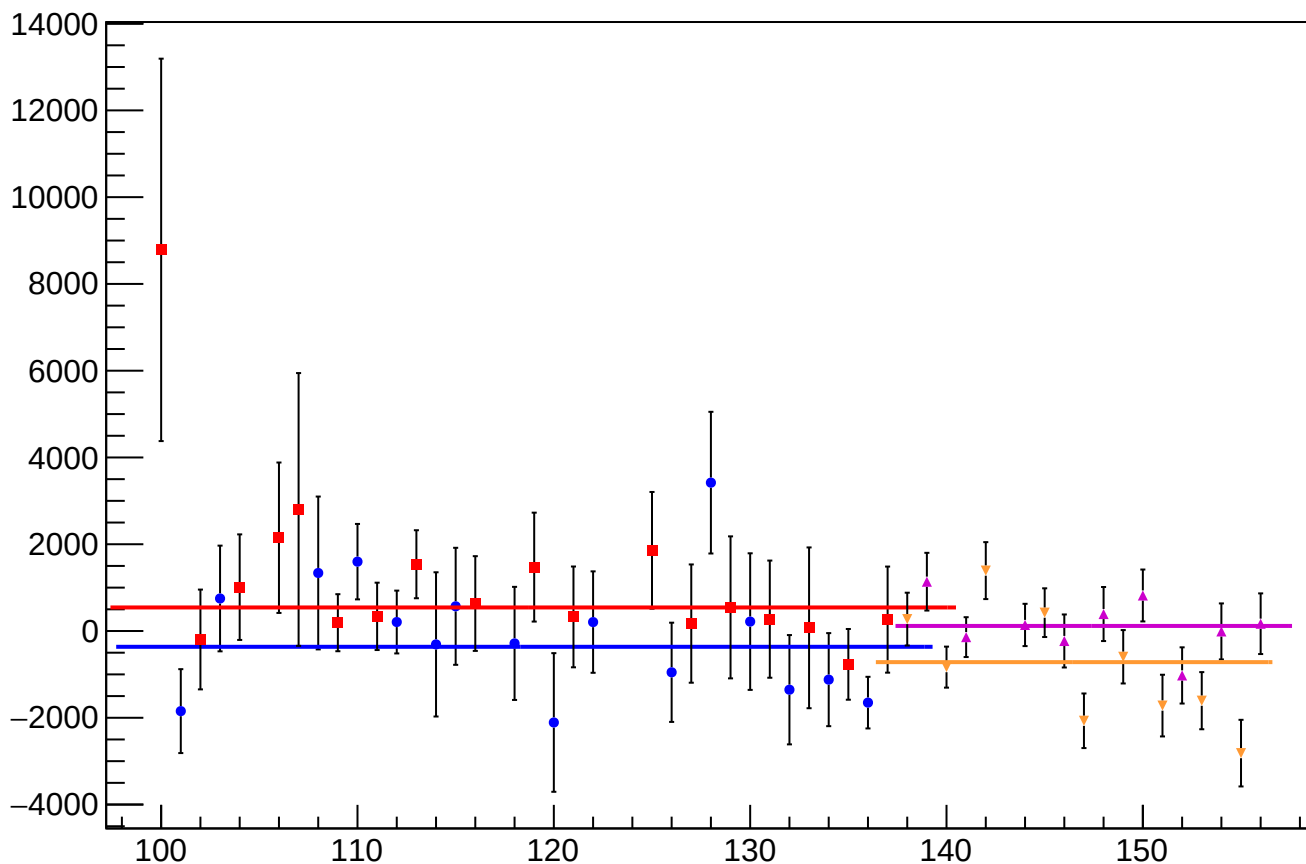
Right: 780.522+/-0.144 χ^2/NDF : 19480.0/33

In: 778.259+/-0.142 χ^2/NDF : 12923.8/24

Out: 780.751+/-0.145 χ^2/NDF : 8707.8/26

All: 779.472+/-0.101 χ^2/NDF : 21782.2/51

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: -717.366 ± 204.901 χ^2/NDF : 33.1/8

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

Left In: 116.946 ± 195.759 χ^2/NDF : 7.7/8

Left: -281.182 ± 141.544 χ^2/NDF : 49.5/17

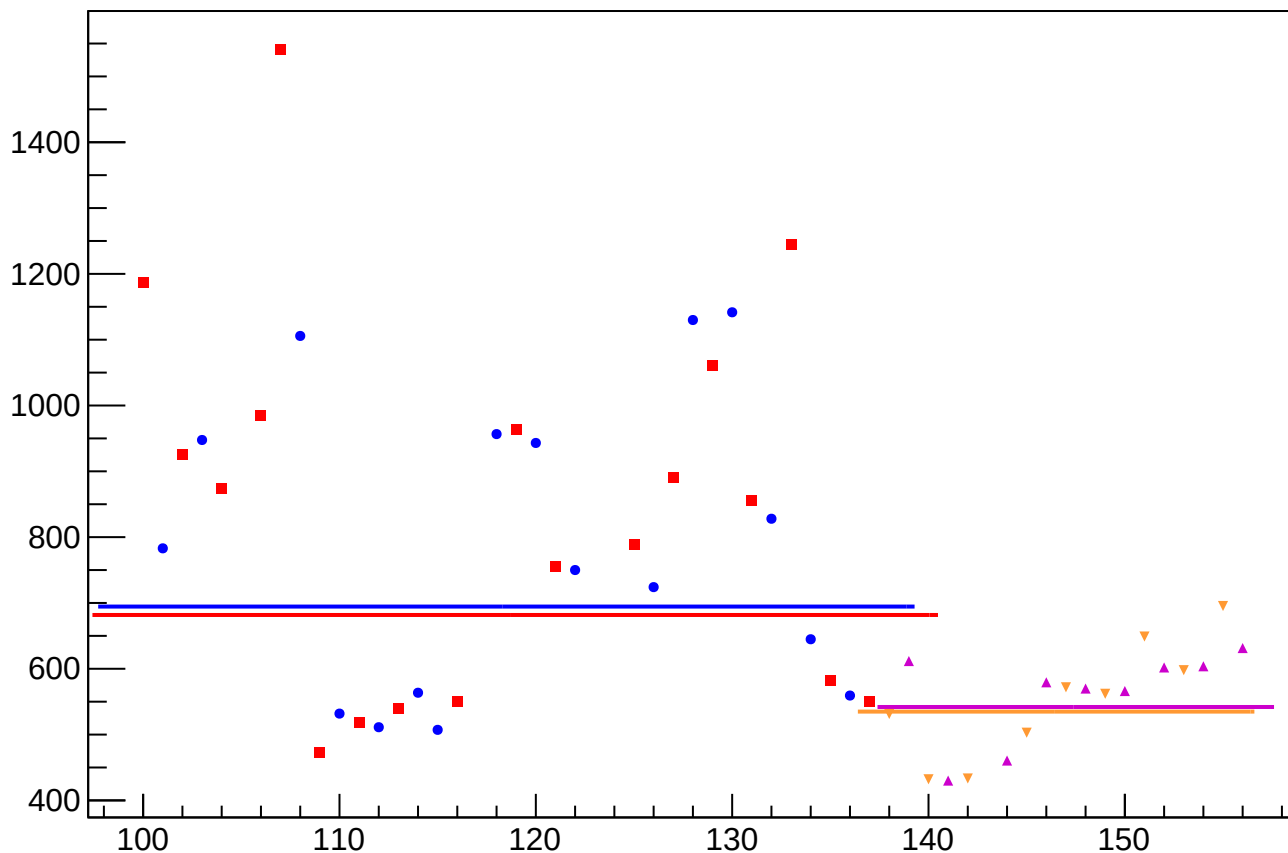
Right: 96.309 ± 188.989 χ^2/NDF : 40.8/33

In: -49.308 ± 158.347 χ^2/NDF : 33.1/24

Out: -246.436 ± 162.160 χ^2/NDF : 59.0/26

All: -145.527 ± 113.292 χ^2/NDF : 92.9/51

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: 534.933+/-0.145 χ^2/NDF : 316973.8/8

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

Left In: 541.937+/-0.138 χ^2/NDF : 279686.3/8

Left: 538.594+/-0.100 χ^2/NDF : 597881.9/17

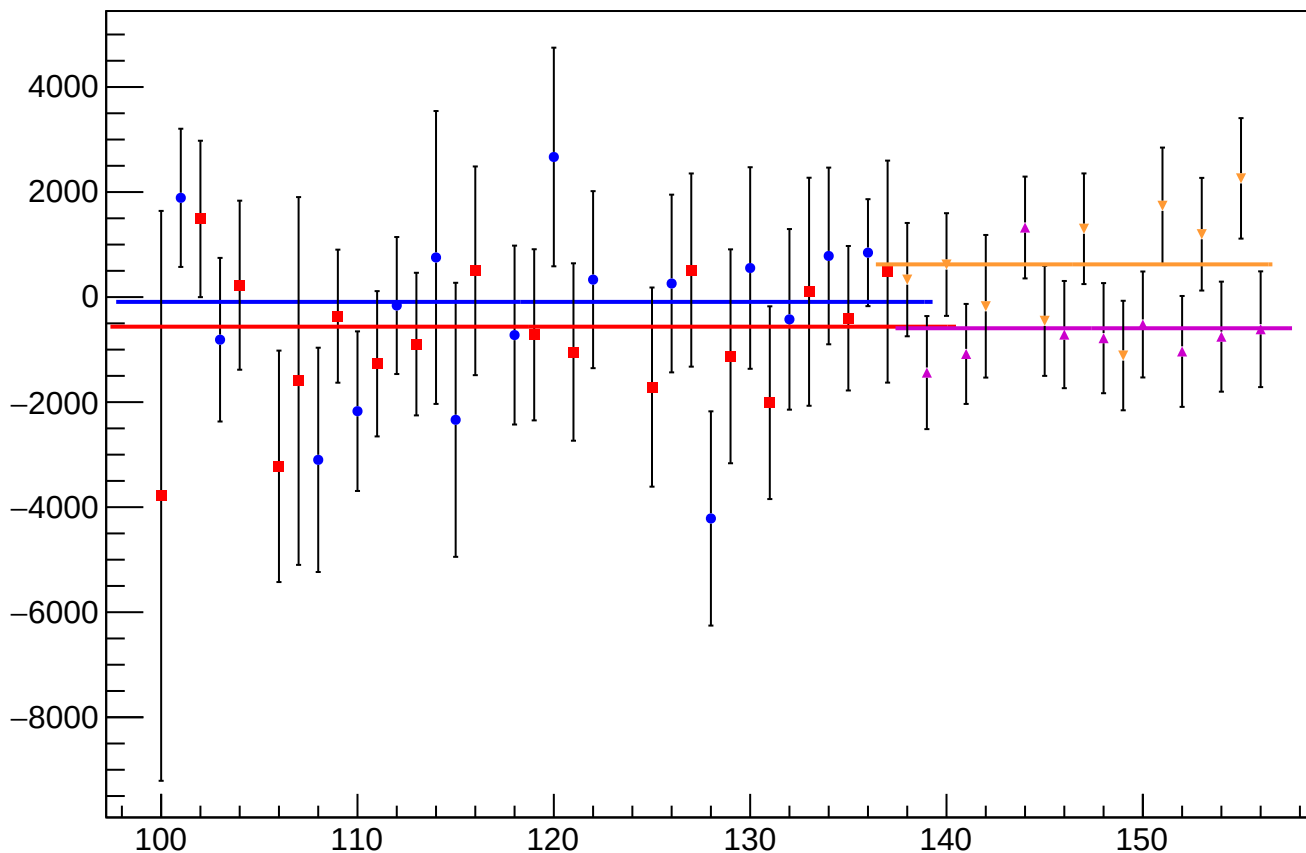
Right: 688.033+/-0.134 χ^2/NDF : 2343525.0/33

In: 594.684+/-0.112 χ^2/NDF : 1729627.9/24

Out: 589.792+/-0.115 χ^2/NDF : 2011970.6/26

All: 592.296+/-0.080 χ^2/NDF : 3742530.4/51

asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: 623.148 ± 362.233 $\chi^2/\text{NDF}: 8.0/8$

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

Left In: -593.346 ± 342.716 $\chi^2/\text{NDF}: 5.0/8$

Left: -18.752 ± 248.951 $\chi^2/\text{NDF}: 19.0/17$

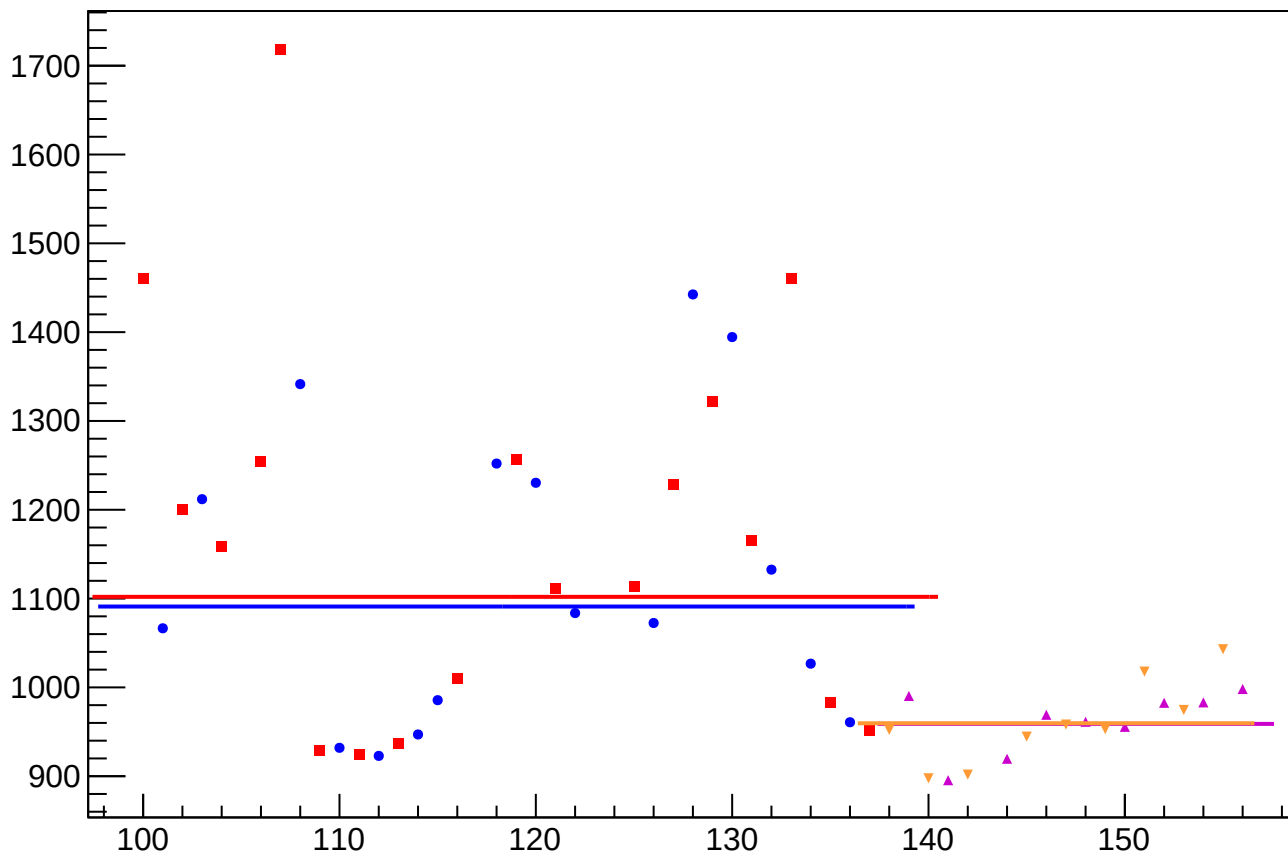
Right: -326.374 ± 290.450 $\chi^2/\text{NDF}: 21.7/33$

In: -386.820 ± 262.939 $\chi^2/\text{NDF}: 20.5/24$

Out: 105.261 ± 271.915 $\chi^2/\text{NDF}: 19.2/26$

All: -149.035 ± 189.019 $\chi^2/\text{NDF}: 41.3/51$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1091.041 ± 0.290 $\chi^2/\text{NDF}: 277304.9/15$

Left Out: 959.611 ± 0.256 $\chi^2/\text{NDF}: 28710.8/8$

Right Out: 1101.953 ± 0.291 $\chi^2/\text{NDF}: 328107.6/17$

Left In: 958.903 ± 0.242 $\chi^2/\text{NDF}: 18718.3/8$

Left: 959.237 ± 0.176 $\chi^2/\text{NDF}: 47433.1/17$

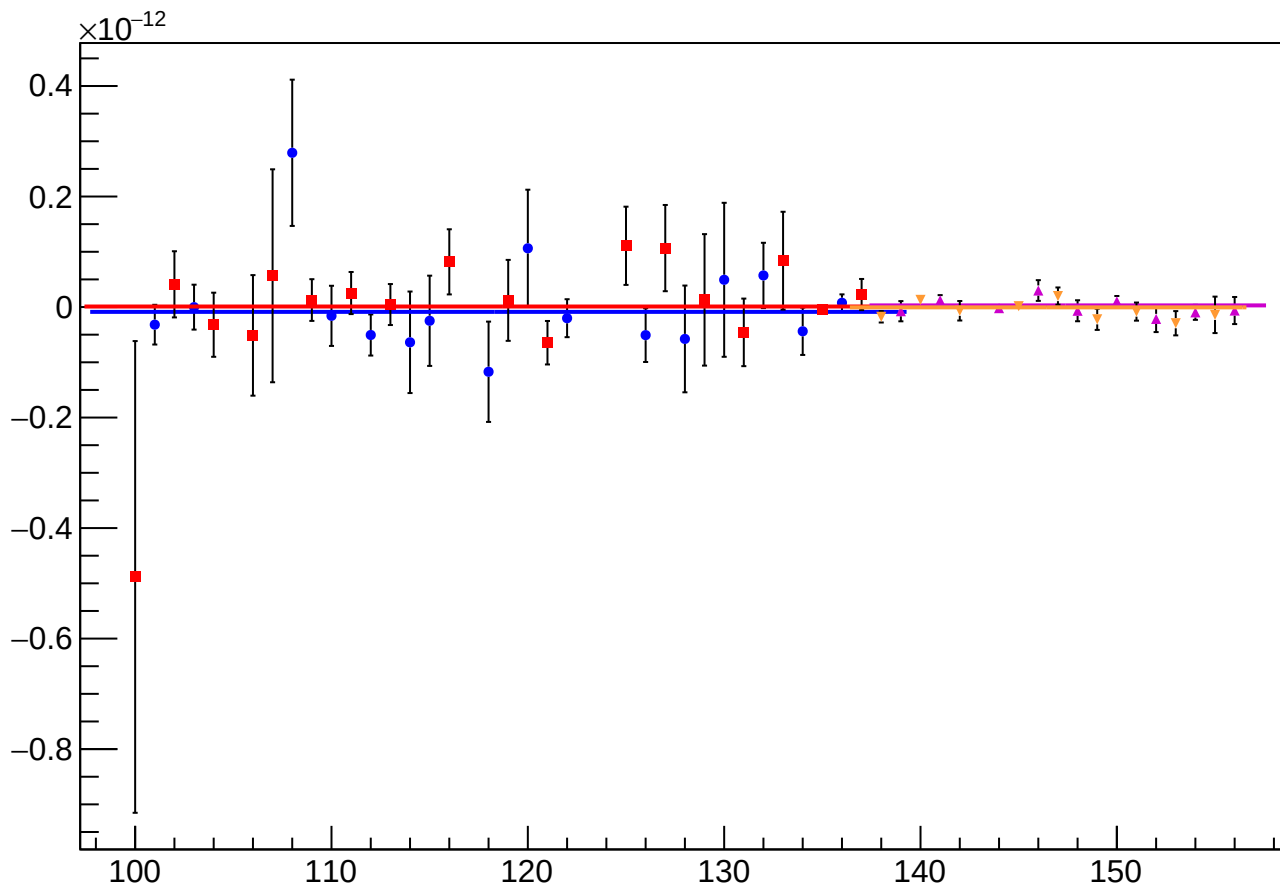
Right: 1096.476 ± 0.205 $\chi^2/\text{NDF}: 606118.2/33$

In: 1013.261 ± 0.186 $\chi^2/\text{NDF}: 418329.2/24$

Out: 1021.744 ± 0.192 $\chi^2/\text{NDF}: 491625.3/26$

All: 1017.360 ± 0.134 $\chi^2/\text{NDF}: 910960.3/51$

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 : 11.1/8

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

Left In: 0.000 ± 0.000 χ^2/NDF : 6.6/8

Left: 0.000 ± 0.000 χ^2/NDF : 18.1/17

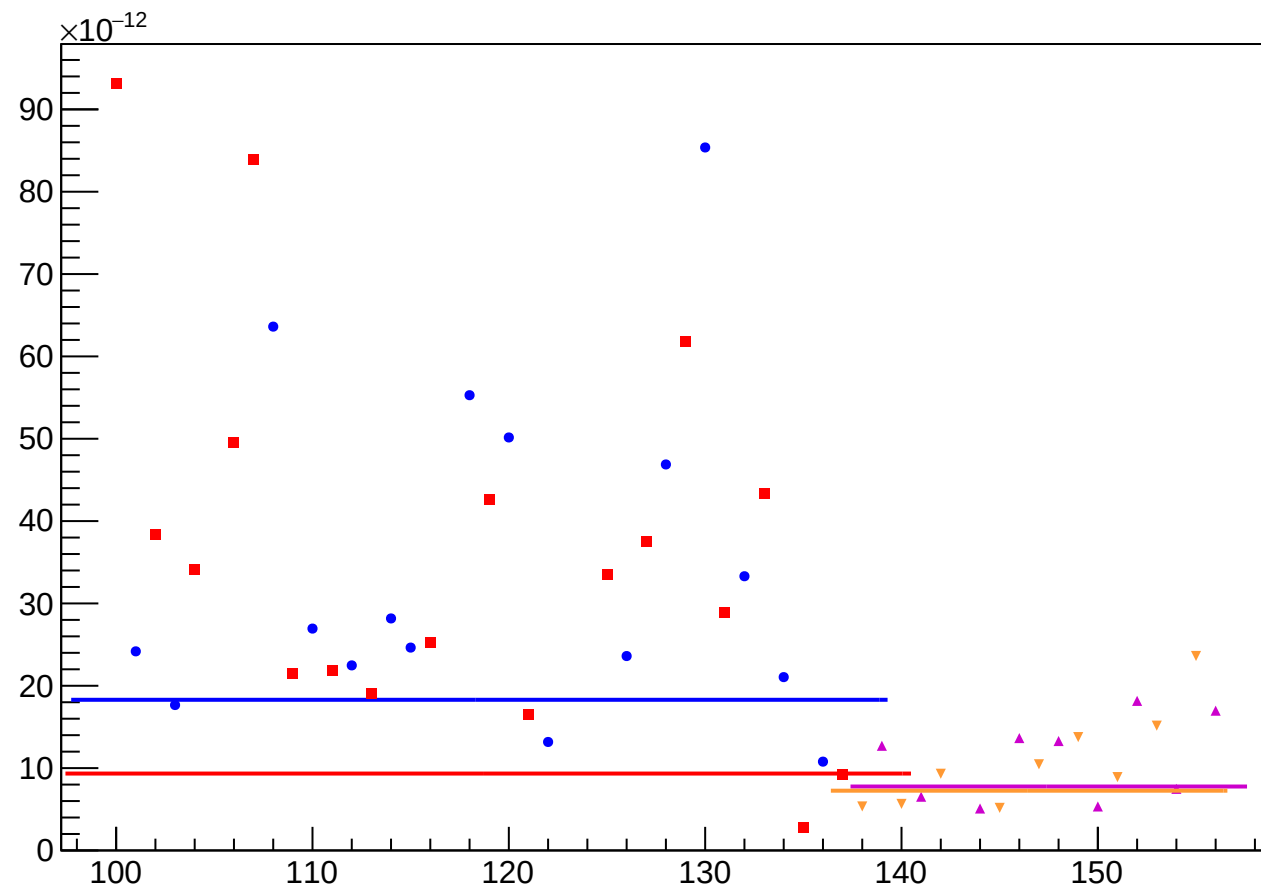
Right: -0.000 ± 0.000 χ^2/NDF : 28.8/33

In: 0.000 ± 0.000 χ^2/NDF : 21.6/24

Out: -0.000 ± 0.000 χ^2/NDF : 25.5/26

All: 0.000 ± 0.000 χ^2/NDF : 47.1/51

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 :1395249.3/8

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

Left In: 0.000+/-0.000 χ^2/NDF :1545797.5/8

Left: 0.000+/-0.000 χ^2/NDF : 2955410.6/17

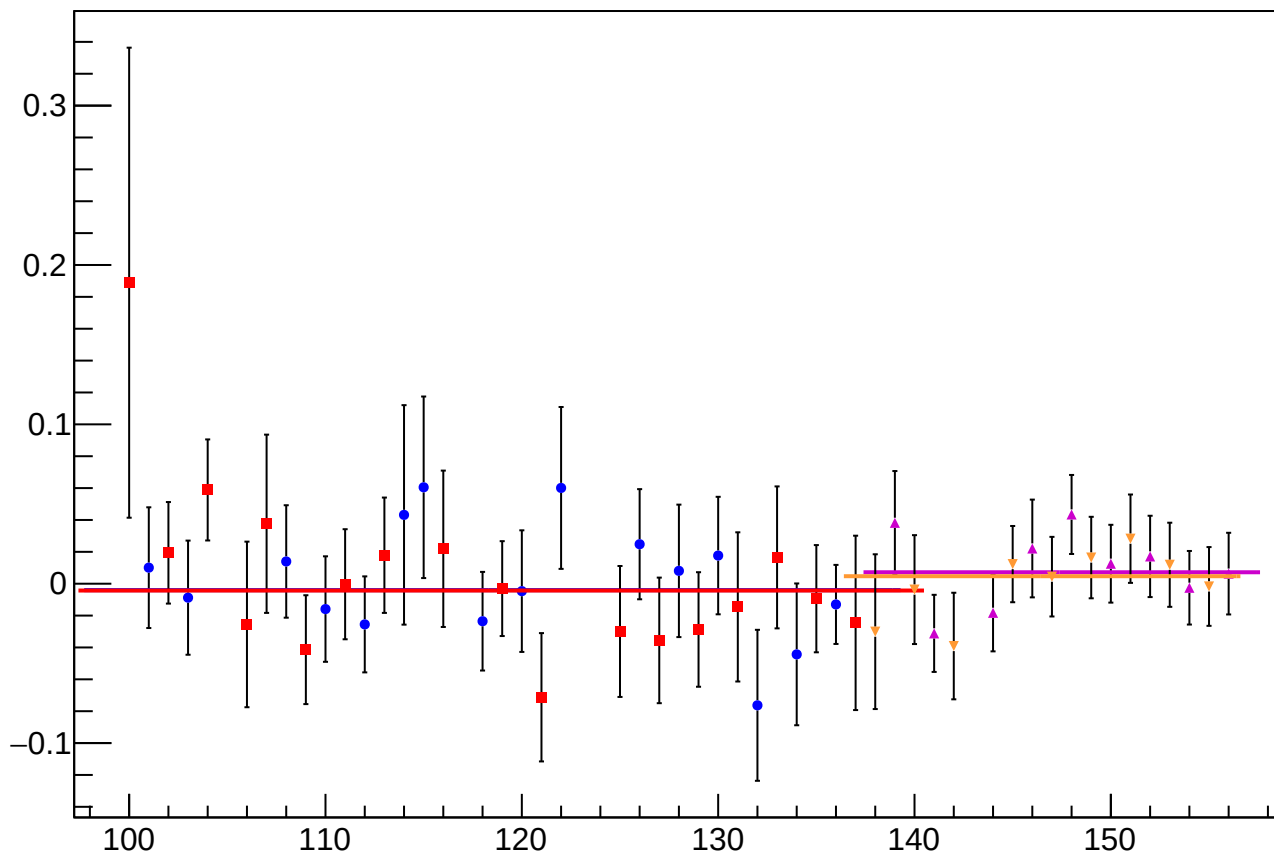
Right: 0.000+/-0.000 χ^2/NDF : 8399783.6/33

In: 0.000+/-0.000 χ^2/NDF :5588243.7/24

Out: 0.000+/-0.000 χ^2/NDF :6658649.6/26

All: 0.000+/-0.000 χ^2/NDF : 12418480.3/51

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: 0.005 ± 0.009 χ^2/NDF : 3.5/8

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

Left In: 0.007 ± 0.009 χ^2/NDF : 7.3/8

Left: 0.006 ± 0.006 χ^2/NDF : 10.8/17

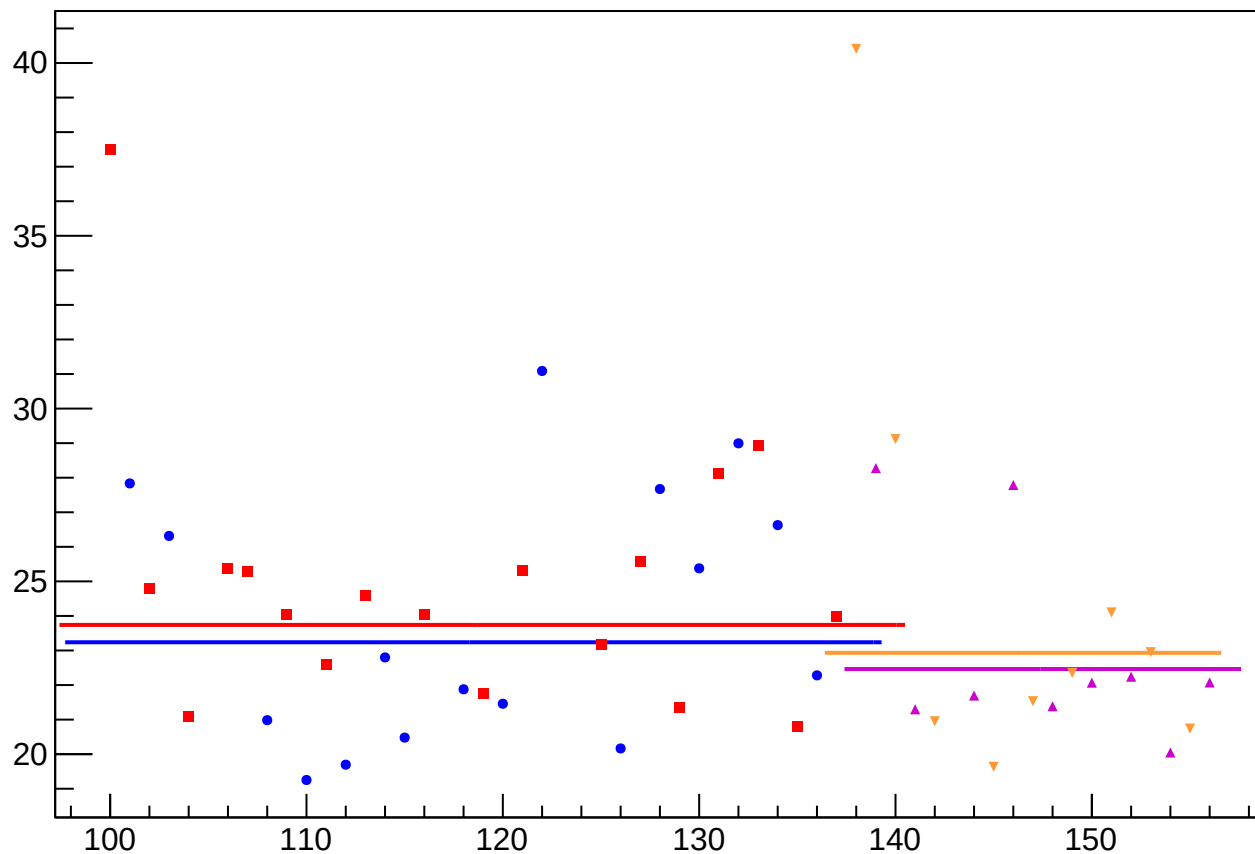
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: 0.002 ± 0.006 χ^2/NDF : 17.3/24

Out: 0.000 ± 0.007 χ^2/NDF : 17.4/26

All: 0.001 ± 0.005 χ^2/NDF : 34.7/51

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: 22.933 $\pm$ 0.007 χ^2/NDF :396236.9/8

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

Left In: 22.464 $\pm$ 0.006 χ^2/NDF :157819.7/8

Left: 22.677 $\pm$ 0.004 χ^2/NDF : 556796.4/17

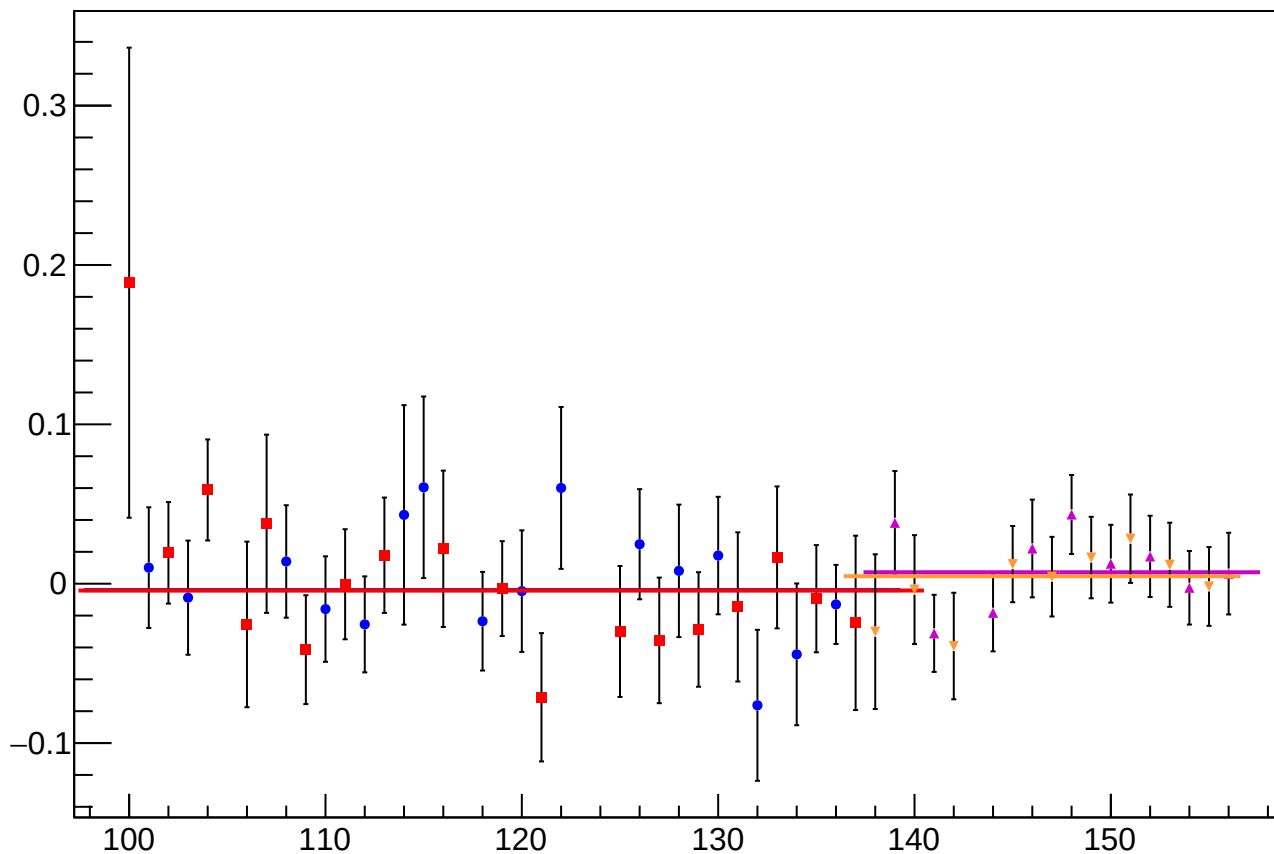
Right: 23.488 $\pm$ 0.005 χ^2/NDF : 388343.8/33

In: 22.820 $\pm$ 0.004 χ^2/NDF :424601.1/24

Out: 23.338 $\pm$ 0.005 χ^2/NDF :529904.1/26

All: 23.066 $\pm$ 0.003 χ^2/NDF : 960969.2/51

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: 0.005 ± 0.009 χ^2/NDF : 3.5/8

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

Left In: 0.007 ± 0.009 χ^2/NDF : 7.3/8

Left: 0.006 ± 0.006 χ^2/NDF : 10.8/17

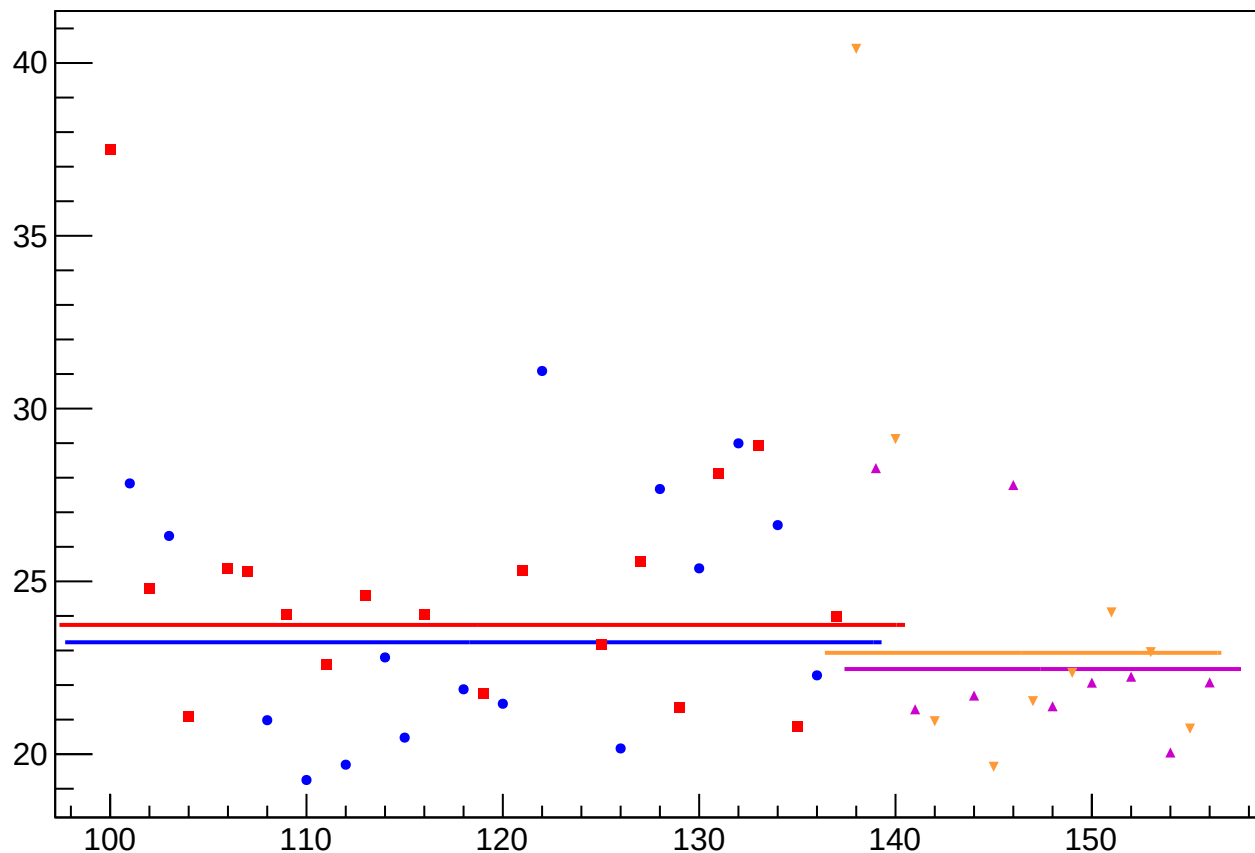
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: 0.002 ± 0.006 χ^2/NDF : 17.3/24

Out: 0.000 ± 0.007 χ^2/NDF : 17.4/26

All: 0.001 ± 0.005 χ^2/NDF : 34.7/51

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: 22.933 $\pm$ 0.007 χ^2 /NDF:396236.9/8

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

Left In: 22.464 $\pm$ 0.006 χ^2 /NDF:157819.7/8

Left: 22.677 $\pm$ 0.004 χ^2 /NDF: 556796.4/17

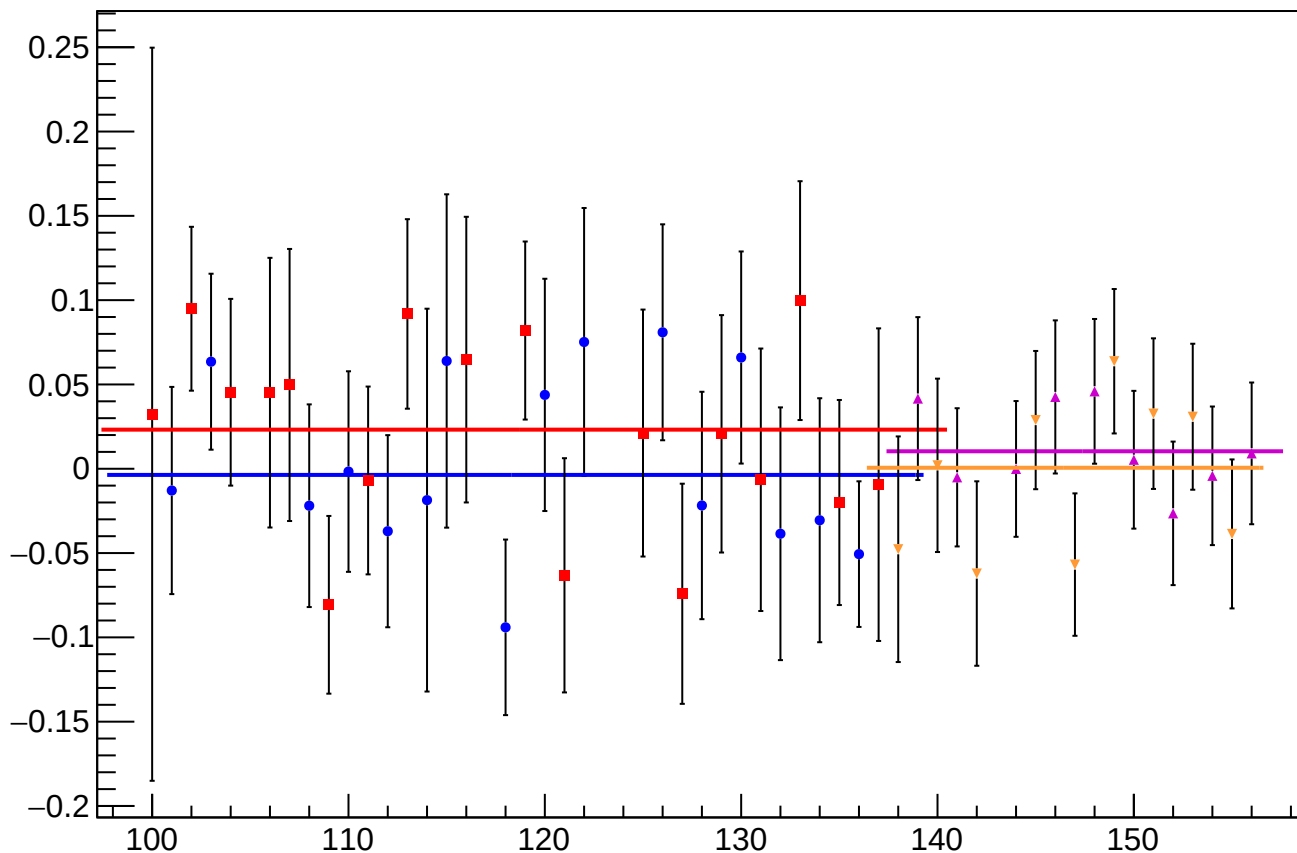
Right: 23.488 $\pm$ 0.005 χ^2 /NDF: 388343.8/33

In: 22.820 $\pm$ 0.004 χ^2 /NDF:424601.1/24

Out: 23.338 $\pm$ 0.005 χ^2 /NDF:529904.1/26

All: 23.066 $\pm$ 0.003 χ^2 /NDF: 960969.2/51

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: 0.001 ± 0.015 $\chi^2/\text{NDF}: 8.1/8$

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

Left In: 0.010 ± 0.014 $\chi^2/\text{NDF}: 2.7/8$

Left: 0.006 ± 0.010 $\chi^2/\text{NDF}: 11.1/17$

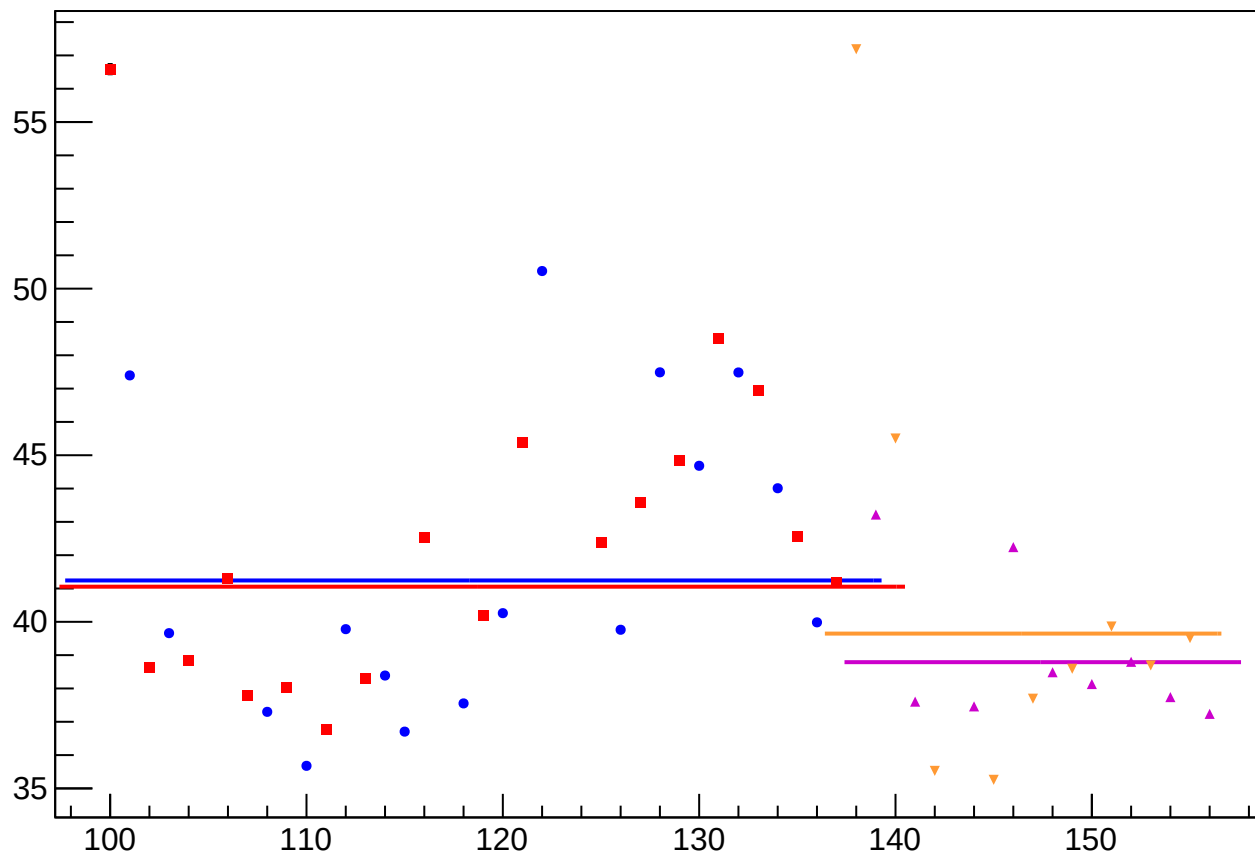
Right: 0.010 ± 0.011 $\chi^2/\text{NDF}: 28.5/33$

In: 0.004 ± 0.011 $\chi^2/\text{NDF}: 14.8/24$

Out: 0.012 ± 0.011 $\chi^2/\text{NDF}: 24.6/26$

All: 0.008 ± 0.008 $\chi^2/\text{NDF}: 39.6/51$

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: 39.647 $\pm$ 0.011 χ^2/NDF :204165.5/8

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

Left In: 38.789 $\pm$ 0.010 χ^2/NDF :36872.2/8

Left: 39.181 $\pm$ 0.007 χ^2/NDF : 244381.5/17

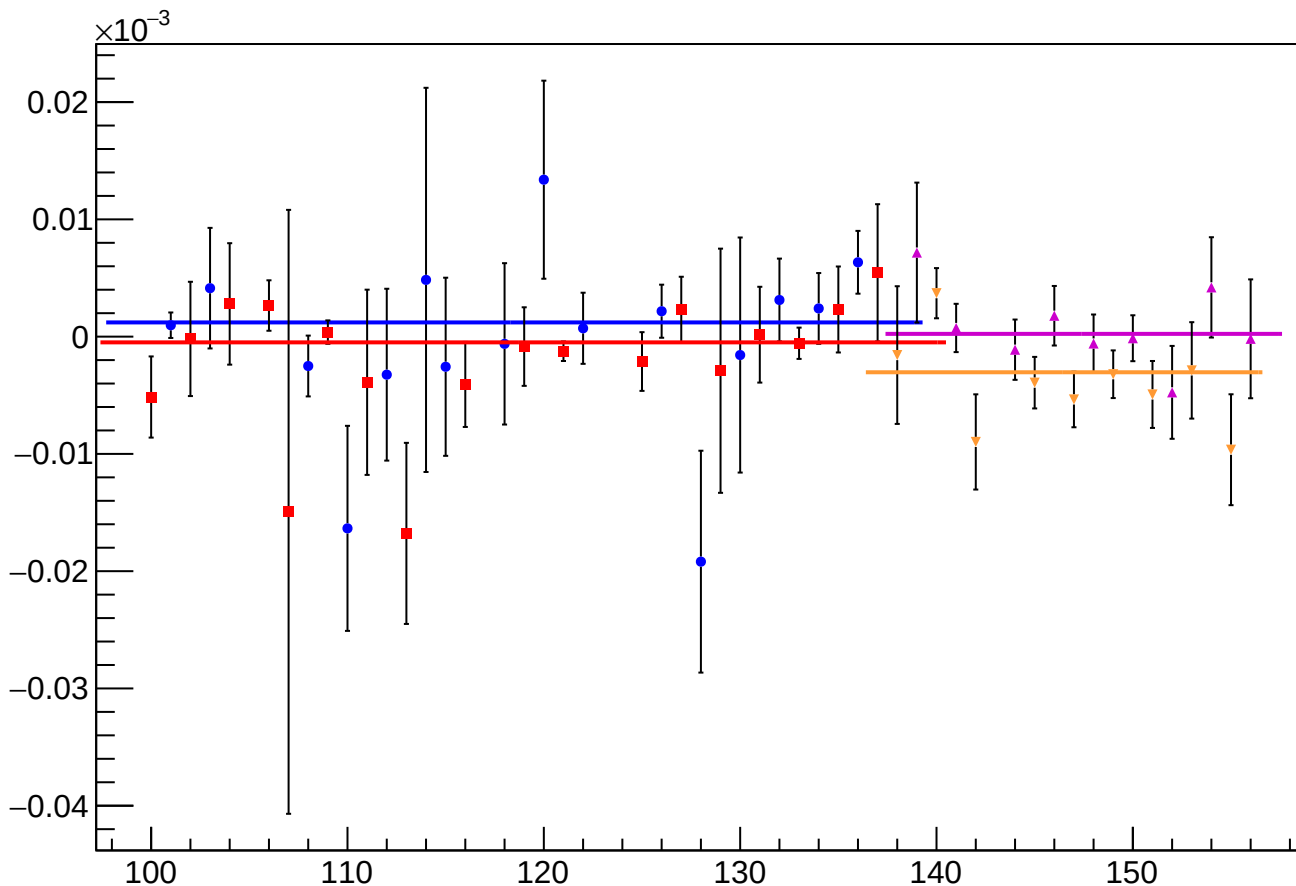
Right: 41.147 $\pm$ 0.008 χ^2/NDF : 231982.7/33

In: 39.888 $\pm$ 0.007 χ^2/NDF :198973.9/24

Out: 40.349 $\pm$ 0.008 χ^2/NDF :308994.8/26

All: 40.109 $\pm$ 0.005 χ^2/NDF : 509809.8/51

asym_us_dd_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 : 15.6/8

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 4.7/8

Left: -0.000+/-0.000 χ^2/NDF : 26.5/17

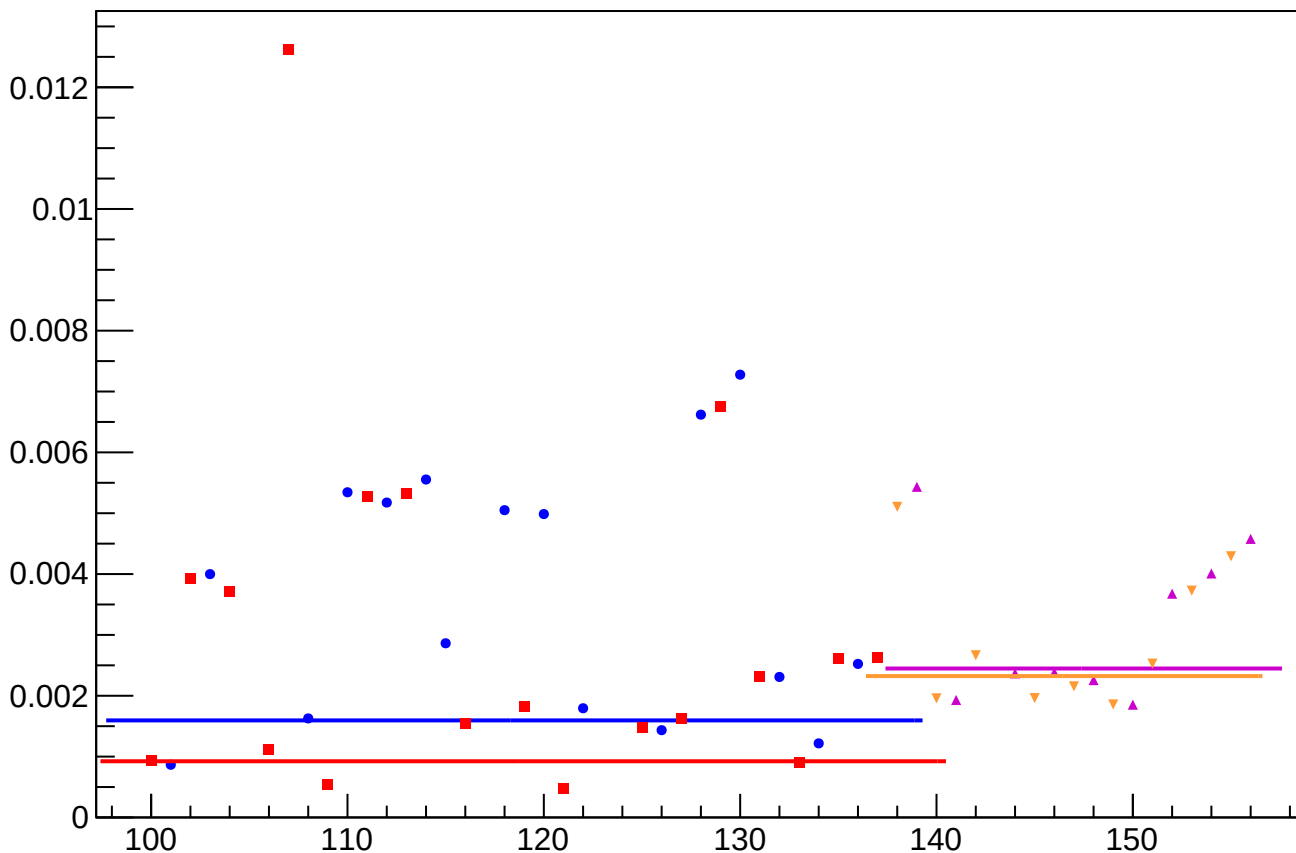
Right: 0.000+/-0.000 χ^2/NDF : 36.9/33

In: 0.000+/-0.000 χ^2/NDF : 23.6/24

Out: -0.000+/-0.000 χ^2/NDF : 36.5/26

All: -0.000+/-0.000 χ^2/NDF : 66.8/51

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 :1281459.2/8

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

Left In: 0.002+/-0.000 χ^2/NDF :1639603.3/8

Left: 0.002+/-0.000 χ^2/NDF : 2939008.7/17

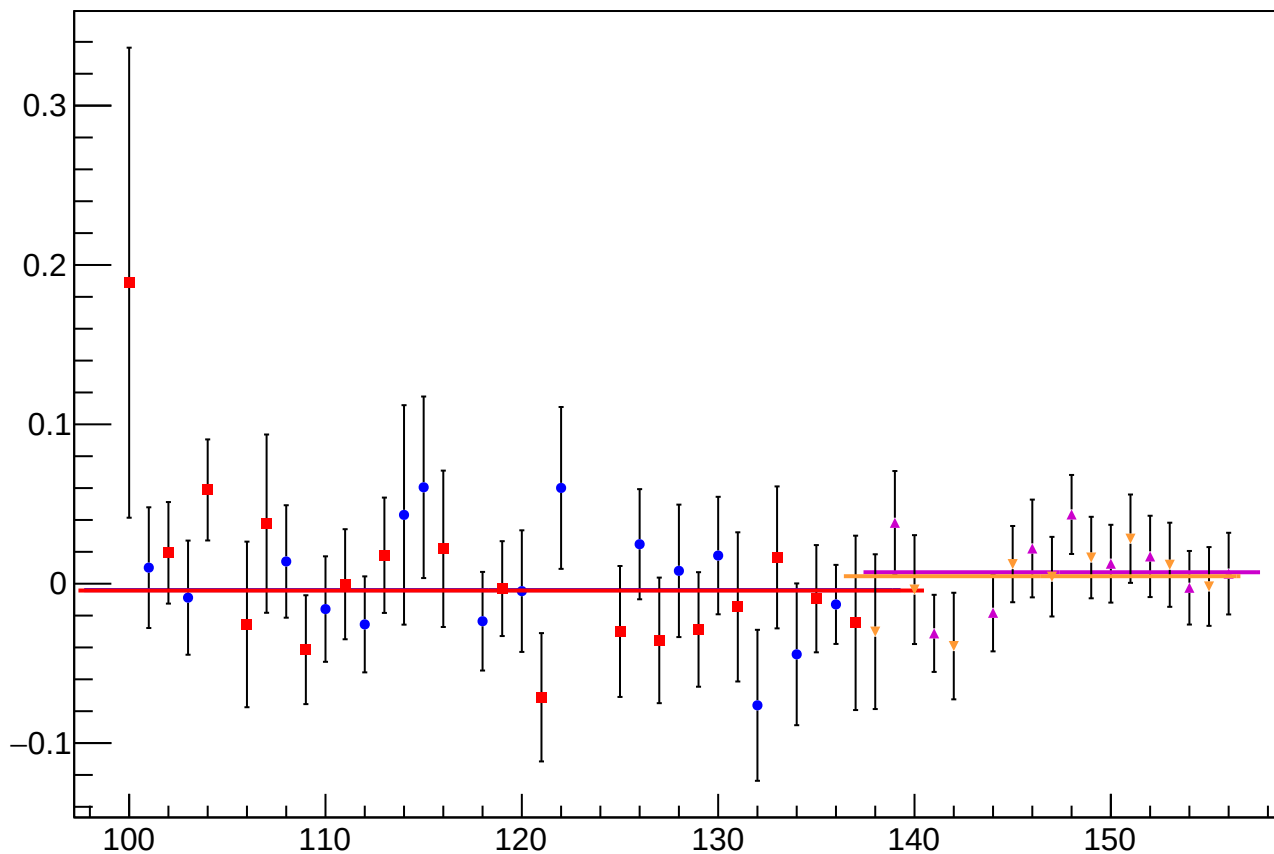
Right: 0.001+/-0.000 χ^2/NDF : 11655258.3/33

In: 0.002+/-0.000 χ^2/NDF :7418648.9/24

Out: 0.001+/-0.000 χ^2/NDF :10597928.1/26

All: 0.001+/-0.000 χ^2/NDF : 19826264.4/51

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: 0.005 ± 0.009 χ^2/NDF : 3.5/8

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

Left In: 0.007 ± 0.009 χ^2/NDF : 7.3/8

Left: 0.006 ± 0.006 χ^2/NDF : 10.8/17

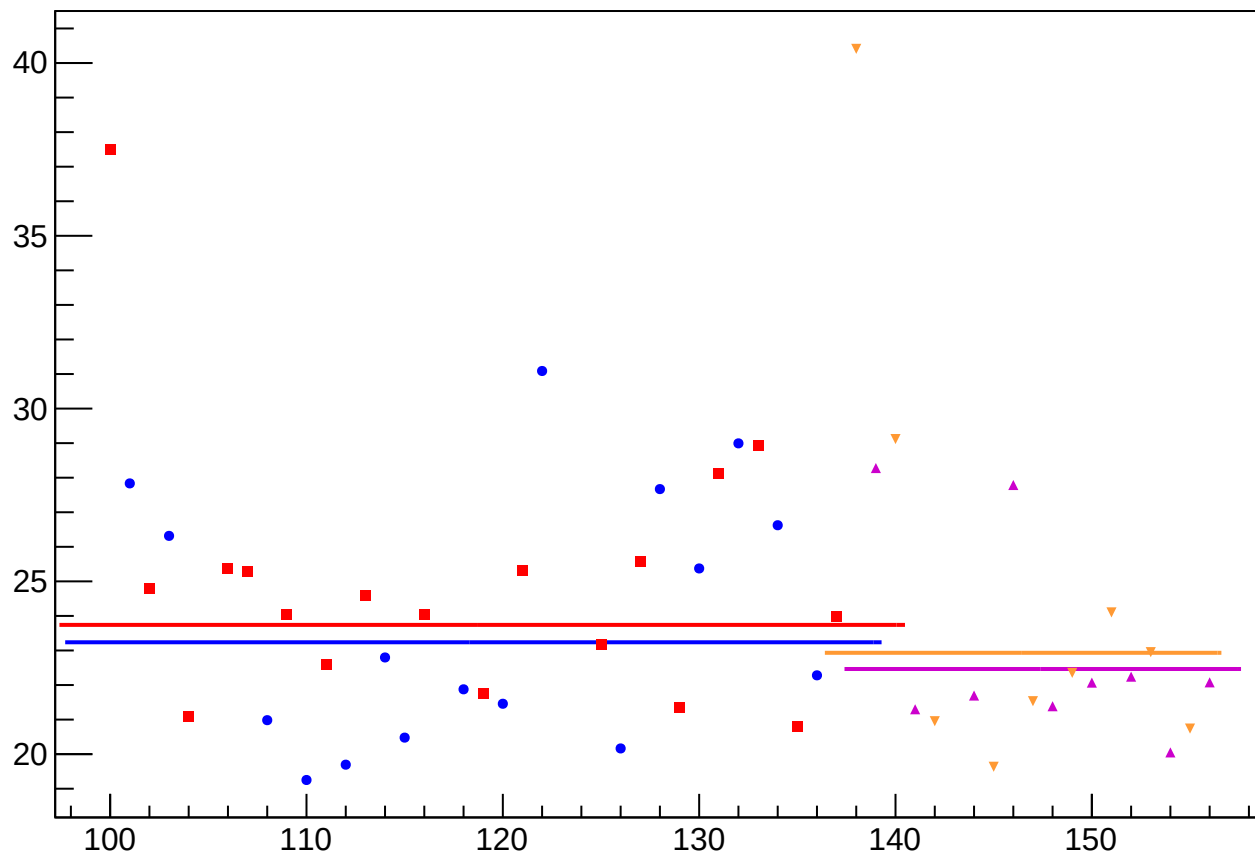
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: 0.002 ± 0.006 χ^2/NDF : 17.3/24

Out: 0.000 ± 0.007 χ^2/NDF : 17.4/26

All: 0.001 ± 0.005 χ^2/NDF : 34.7/51

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: 22.933 $\pm$ 0.007 χ^2 /NDF: 396232.7/8

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

Left In: 22.464 $\pm$ 0.006 χ^2 /NDF: 157795.8/8

Left: 22.678 $\pm$ 0.004 χ^2 /NDF: 556764.4/17

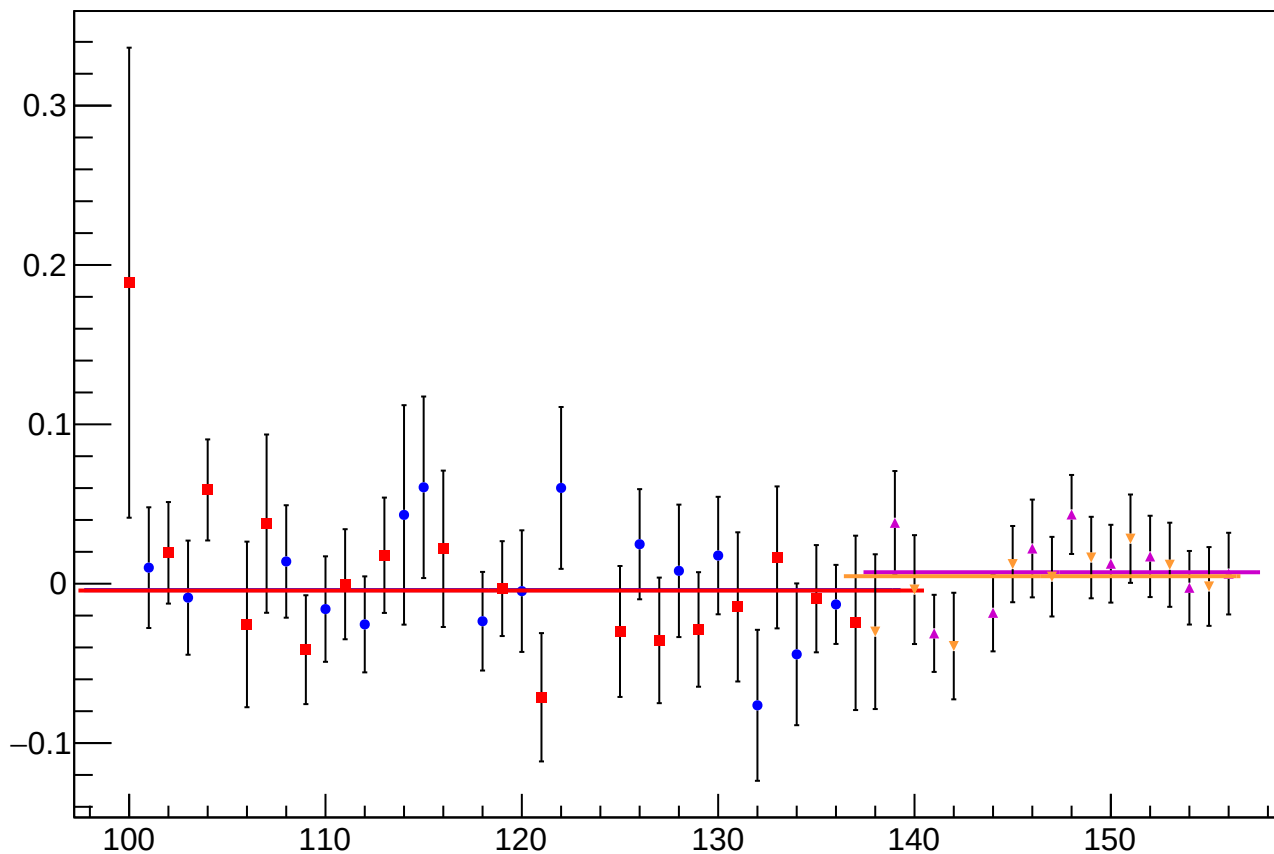
Right: 23.487 $\pm$ 0.005 χ^2 /NDF: 388292.2/33

In: 22.820 $\pm$ 0.004 χ^2 /NDF: 424544.2/24

Out: 23.338 $\pm$ 0.005 χ^2 /NDF: 529850.9/26

All: 23.067 $\pm$ 0.003 χ^2 /NDF: 960864.8/51

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: 0.005 ± 0.009 χ^2/NDF : 3.5/8

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

Left In: 0.007 ± 0.009 χ^2/NDF : 7.3/8

Left: 0.006 ± 0.006 χ^2/NDF : 10.8/17

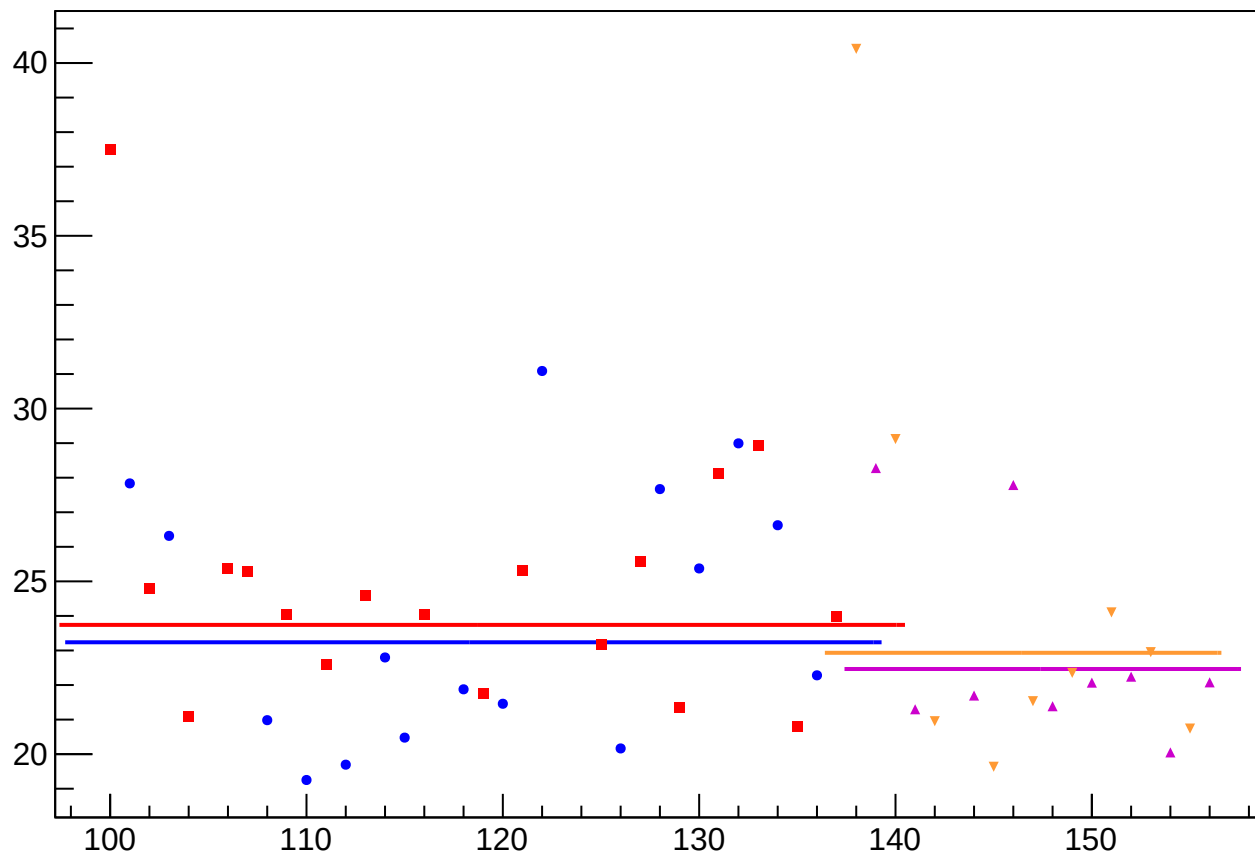
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: 0.002 ± 0.006 χ^2/NDF : 17.3/24

Out: 0.000 ± 0.007 χ^2/NDF : 17.4/26

All: 0.001 ± 0.005 χ^2/NDF : 34.7/51

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: 22.933 $\pm$ 0.007 χ^2/NDF : 396232.7/8

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

Left In: 22.464 $\pm$ 0.006 χ^2/NDF : 157795.8/8

Left: 22.678 $\pm$ 0.004 χ^2/NDF : 556764.4/17

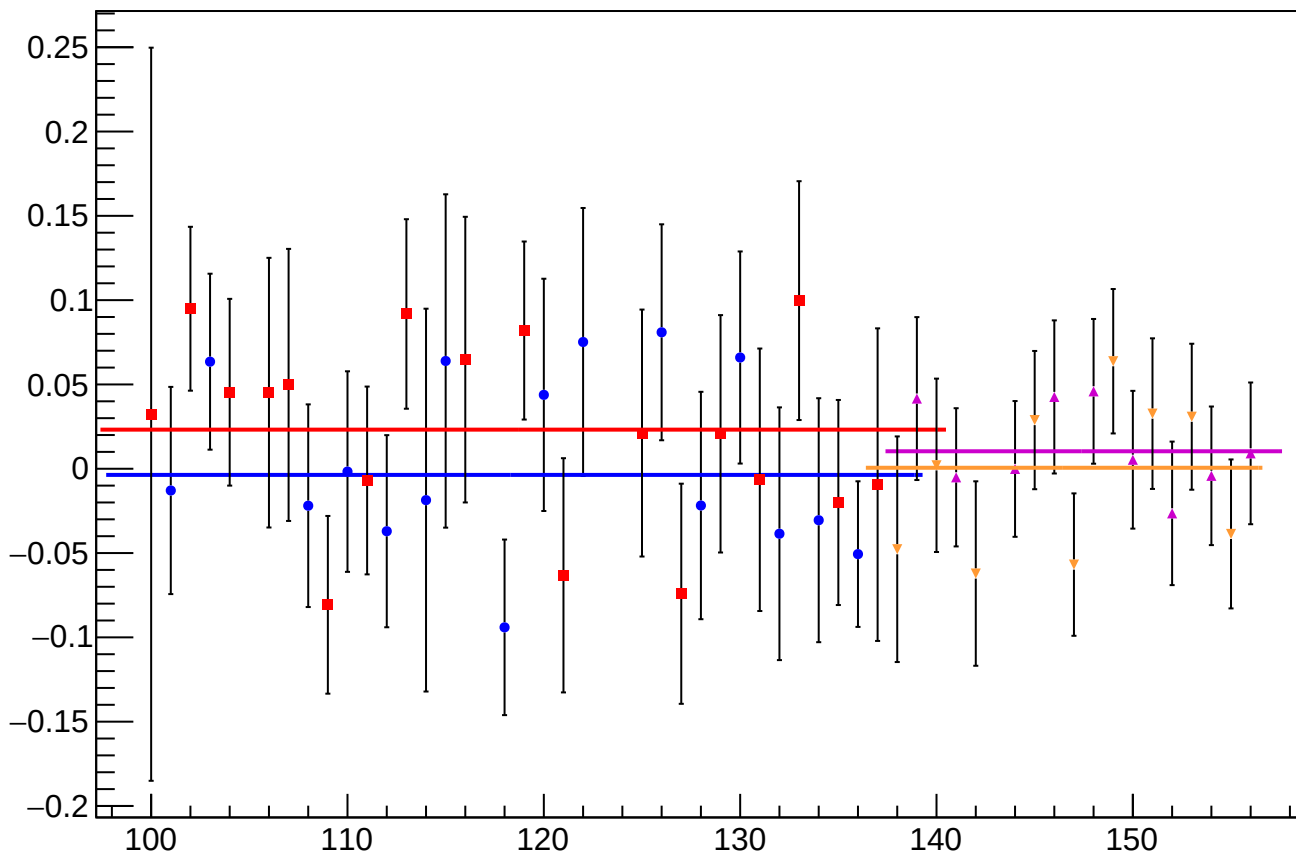
Right: 23.487 $\pm$ 0.005 χ^2/NDF : 388292.2/33

In: 22.820 $\pm$ 0.004 χ^2/NDF : 424544.2/24

Out: 23.338 $\pm$ 0.005 χ^2/NDF : 529850.9/26

All: 23.067 $\pm$ 0.003 χ^2/NDF : 960864.8/51

asym_us_dd_eigen_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: 0.001 ± 0.015 $\chi^2/\text{NDF}: 8.1/8$

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

Left In: 0.010 ± 0.014 $\chi^2/\text{NDF}: 2.7/8$

Left: 0.006 ± 0.010 $\chi^2/\text{NDF}: 11.1/17$

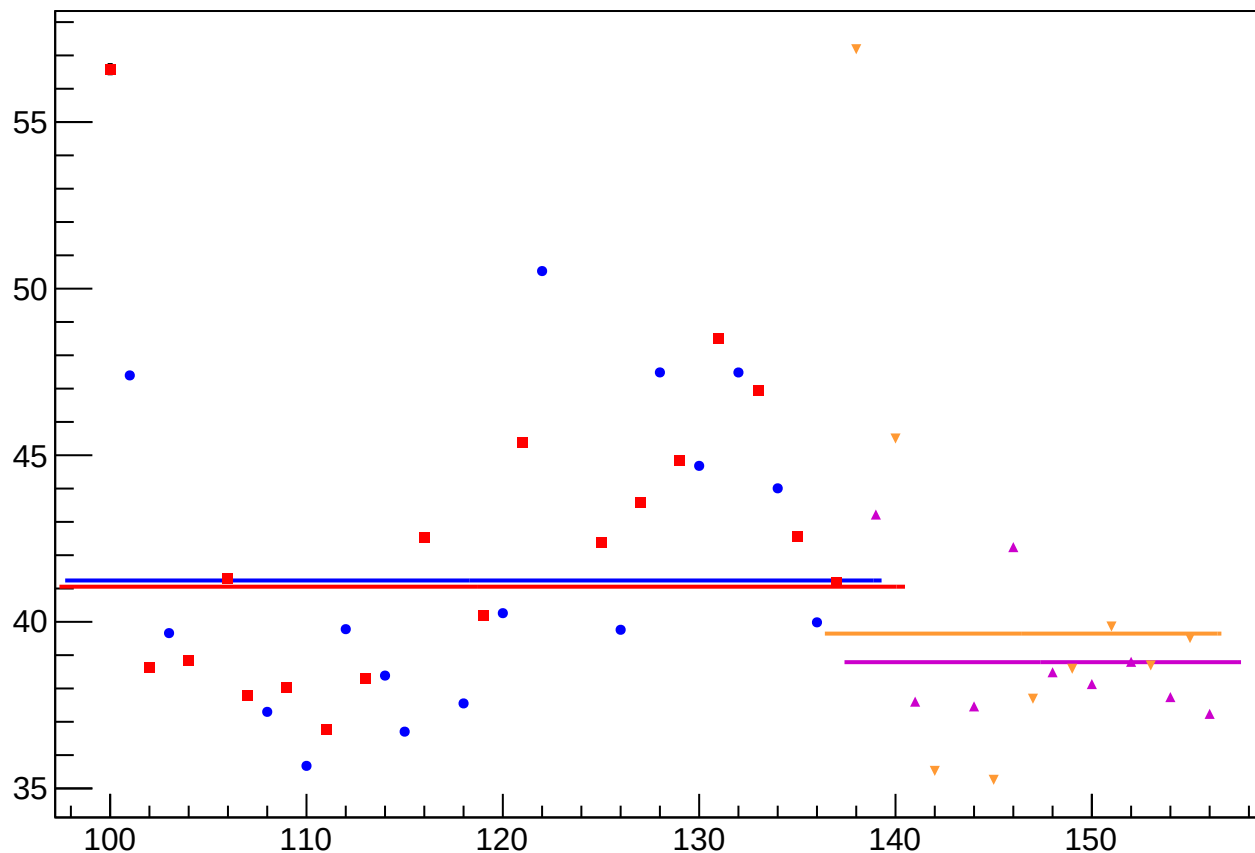
Right: 0.010 ± 0.011 $\chi^2/\text{NDF}: 28.5/33$

In: 0.004 ± 0.011 $\chi^2/\text{NDF}: 14.8/24$

Out: 0.012 ± 0.011 $\chi^2/\text{NDF}: 24.6/26$

All: 0.008 ± 0.008 $\chi^2/\text{NDF}: 39.6/51$

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: 39.647 $\pm$ 0.011 χ^2 /NDF:204164.9/8

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

Left In: 38.789 $\pm$ 0.010 χ^2 /NDF:36874.3/8

Left: 39.181 $\pm$ 0.007 χ^2 /NDF: 244382.3/17

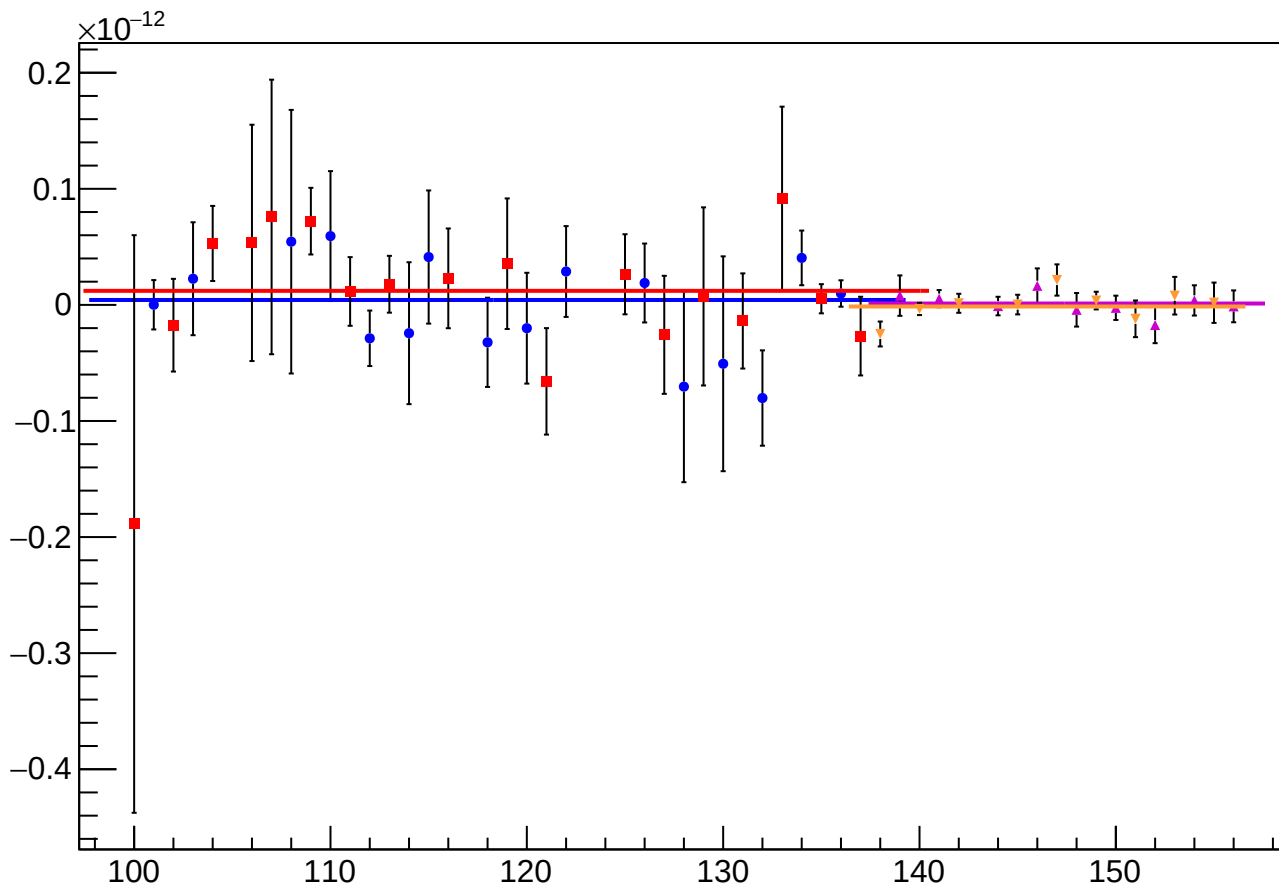
Right: 41.147 $\pm$ 0.008 χ^2 /NDF: 231949.1/33

In: 39.888 $\pm$ 0.007 χ^2 /NDF:198944.2/24

Out: 40.349 $\pm$ 0.008 χ^2 /NDF:308981.5/26

All: 40.109 $\pm$ 0.005 χ^2 /NDF: 509767.0/51

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 : 9.3/8

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

Left In: 0.000+/-0.000 χ^2/NDF : 3.3/8

Left: -0.000+/-0.000 χ^2/NDF : 12.9/17

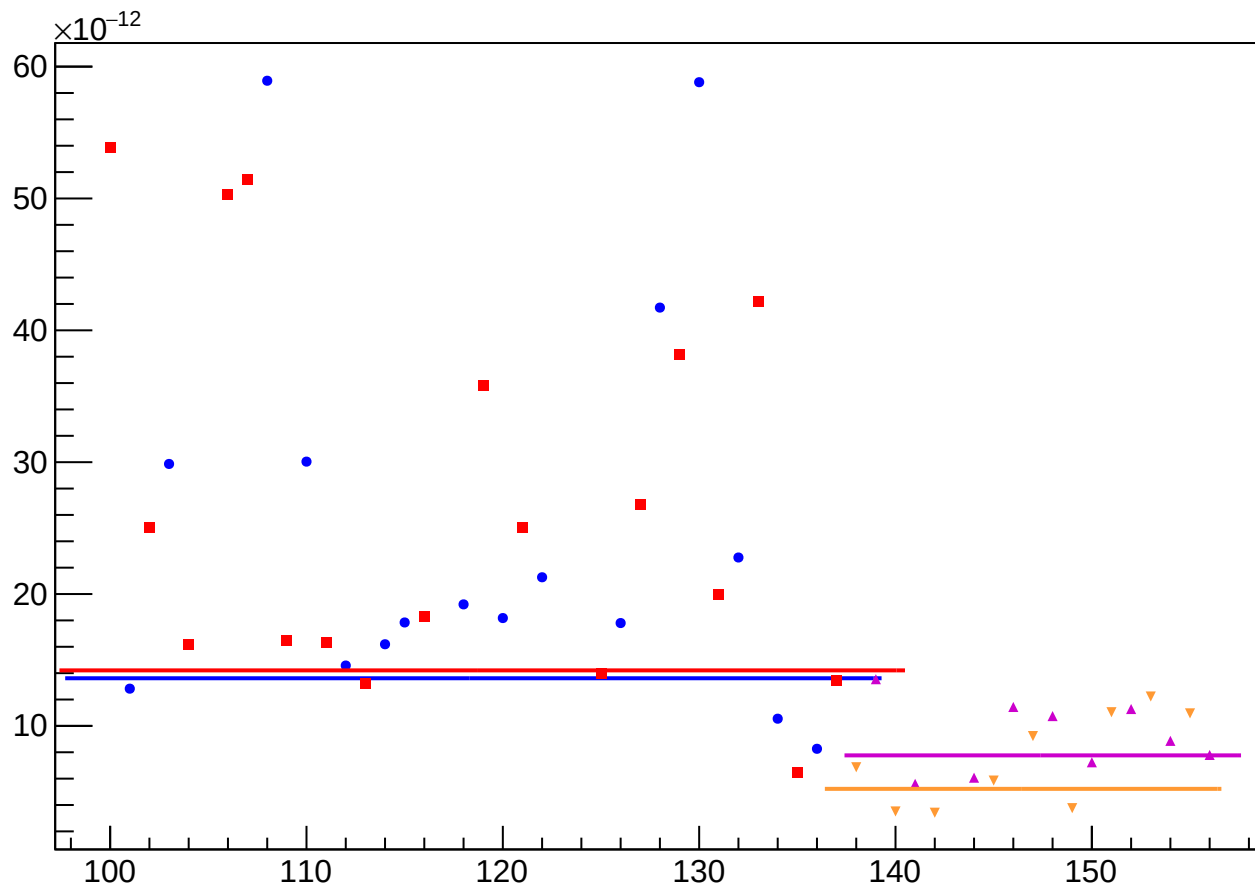
Right: 0.000+/-0.000 χ^2/NDF : 28.7/33

In: 0.000+/-0.000 χ^2/NDF : 17.1/24

Out: 0.000+/-0.000 χ^2/NDF : 26.5/26

All: 0.000+/-0.000 χ^2/NDF : 43.7/51

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 :1478466.4/8

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

Left In: 0.000+/-0.000 χ^2/NDF :805013.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2833962.2/17

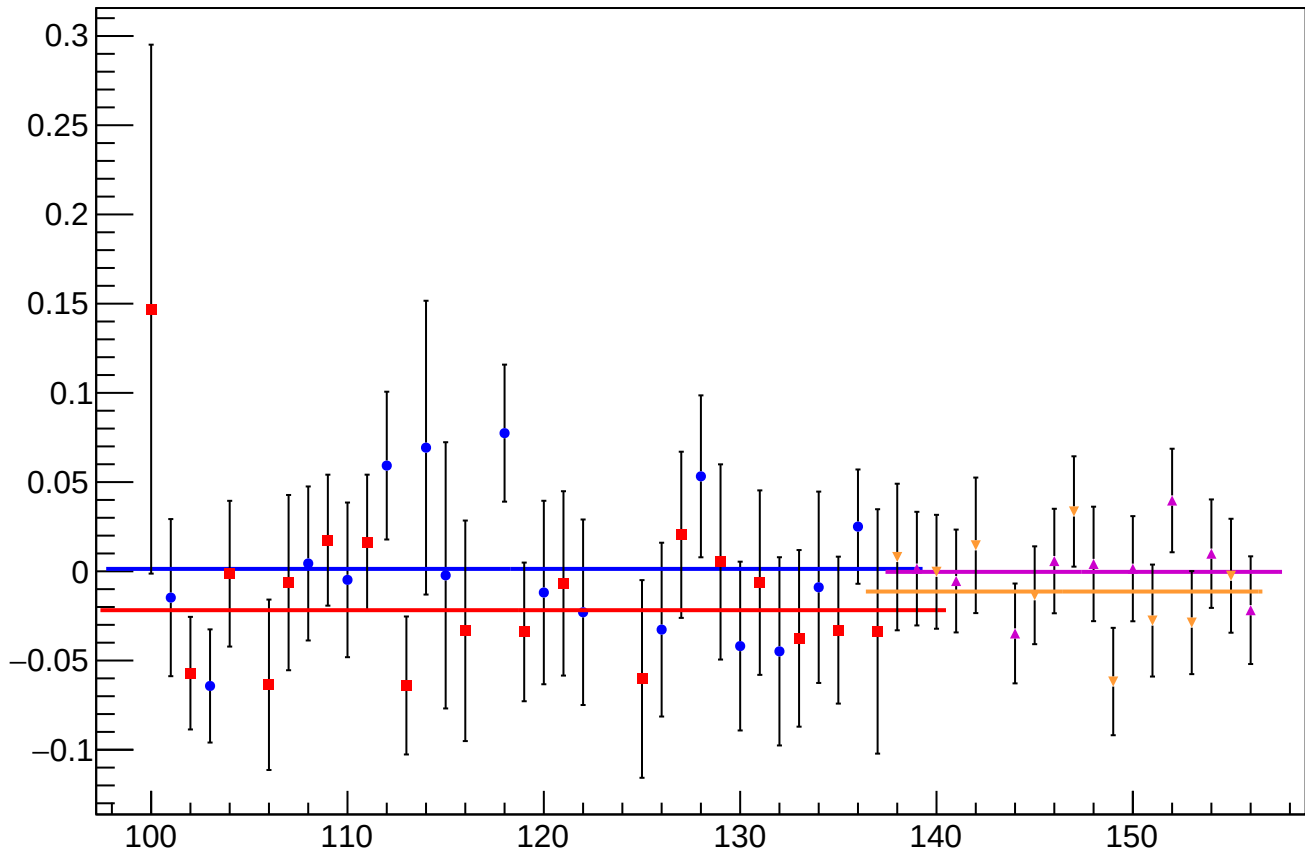
Right: 0.000+/-0.000 χ^2/NDF : 4666493.6/33

In: 0.000+/-0.000 χ^2/NDF :3991781.7/24

Out: 0.000+/-0.000 χ^2/NDF :6257207.0/26

All: 0.000+/-0.000 χ^2/NDF : 10922490.9/51

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -0.011 ± 0.011 $\chi^2/\text{NDF}: 6.4/8$

Right Out: -0.022 ± 0.011 $\chi^2/\text{NDF}: 9.0/17$

Left In: -0.000 ± 0.010 $\chi^2/\text{NDF}: 4.1/8$

Left: -0.005 ± 0.007 $\chi^2/\text{NDF}: 11.2/17$

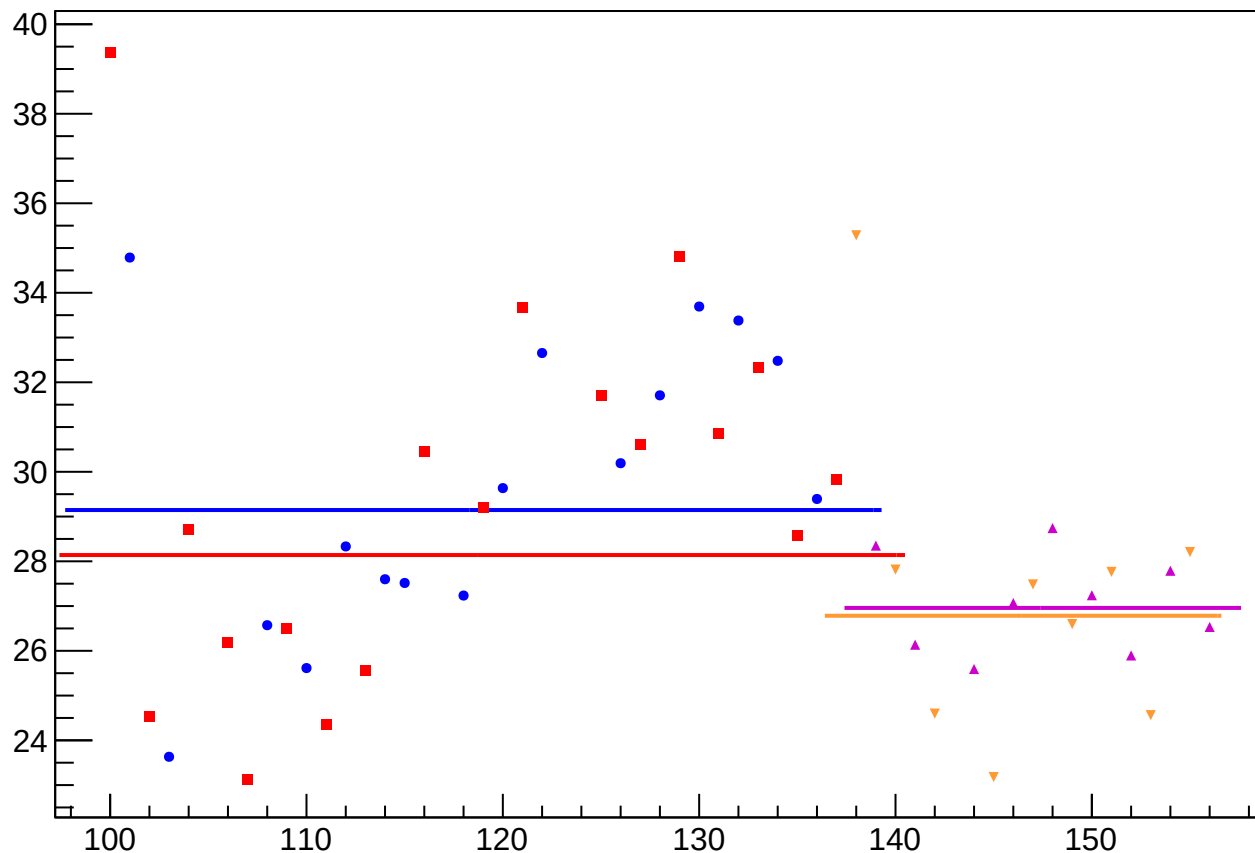
Right: -0.011 ± 0.008 $\chi^2/\text{NDF}: 26.5/33$

In: 0.000 ± 0.007 $\chi^2/\text{NDF}: 19.4/24$

Out: -0.016 ± 0.008 $\chi^2/\text{NDF}: 16.0/26$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 37.9/51$

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146+/-0.008 χ^2/NDF : 176889.4/15

Left Out: 26.783+/-0.007 χ^2/NDF : 147828.1/8

Right Out: 28.140+/-0.008 χ^2/NDF : 187103.8/17

Left In: 26.958+/-0.007 χ^2/NDF : 21177.1/8

Left: 26.876+/-0.005 χ^2/NDF : 169296.0/17

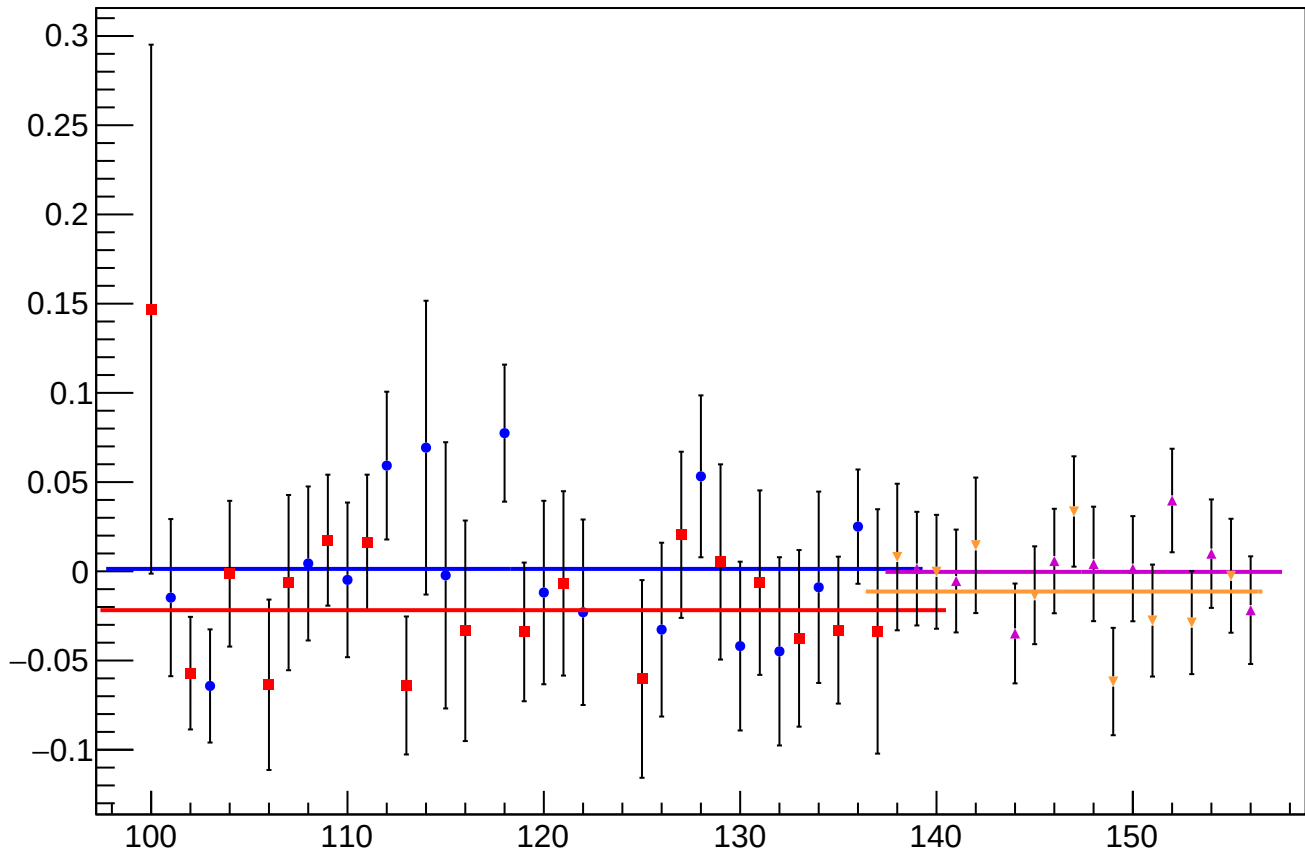
Right: 28.623+/-0.005 χ^2/NDF : 372352.6/33

In: 27.921+/-0.005 χ^2/NDF : 240688.1/24

Out: 27.449+/-0.005 χ^2/NDF : 351075.1/26

All: 27.688+/-0.004 χ^2/NDF : 595729.8/51

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -0.011 ± 0.011 $\chi^2/\text{NDF}: 6.4/8$

Right Out: -0.022 ± 0.011 $\chi^2/\text{NDF}: 9.0/17$

Left In: -0.000 ± 0.010 $\chi^2/\text{NDF}: 4.1/8$

Left: -0.005 ± 0.007 $\chi^2/\text{NDF}: 11.2/17$

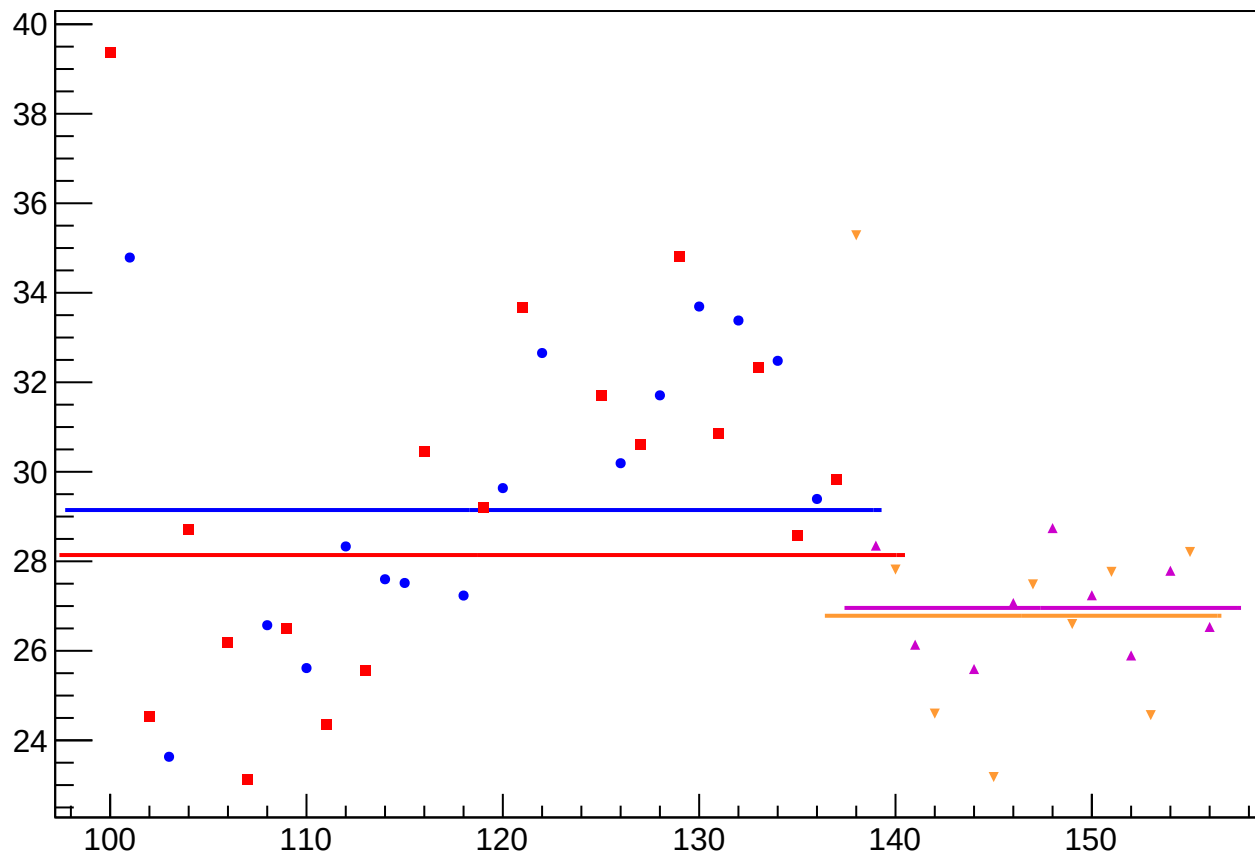
Right: -0.011 ± 0.008 $\chi^2/\text{NDF}: 26.5/33$

In: 0.000 ± 0.007 $\chi^2/\text{NDF}: 19.4/24$

Out: -0.016 ± 0.008 $\chi^2/\text{NDF}: 16.0/26$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 37.9/51$

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146+/-0.008 χ^2/NDF : 176889.4/15

Left Out: 26.783+/-0.007 χ^2/NDF : 147828.1/8

Right Out: 28.140+/-0.008 χ^2/NDF : 187103.8/17

Left In: 26.958+/-0.007 χ^2/NDF : 21177.1/8

Left: 26.876+/-0.005 χ^2/NDF : 169296.0/17

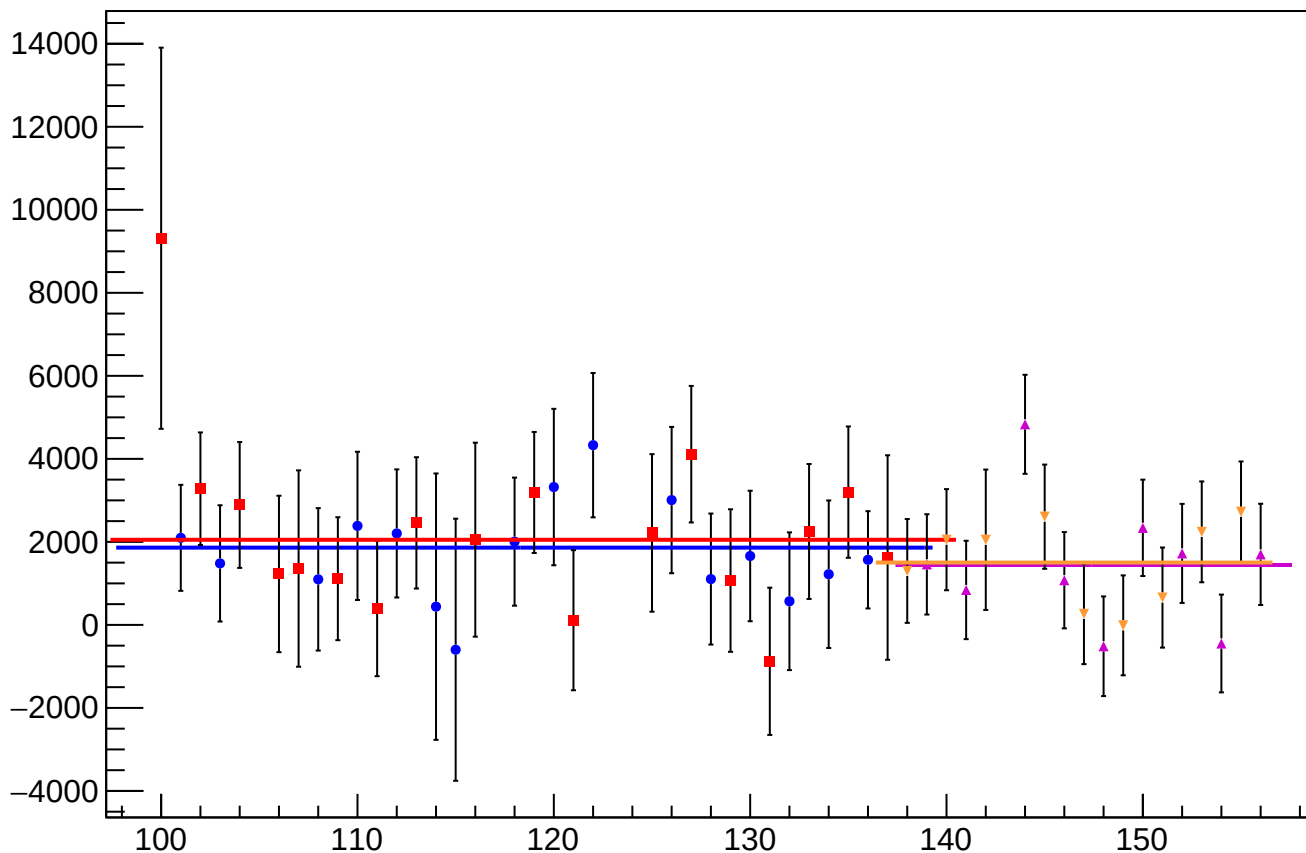
Right: 28.623+/-0.005 χ^2/NDF : 372352.6/33

In: 27.921+/-0.005 χ^2/NDF : 240688.1/24

Out: 27.449+/-0.005 χ^2/NDF : 351075.1/26

All: 27.688+/-0.004 χ^2/NDF : 595729.8/51

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1502.326 $\pm$ 418.262 χ^2 /NDF: 5.6/8

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1443.574 $\pm$ 396.106 χ^2 /NDF: 14.4/8

Left: 1471.353 $\pm$ 287.603 χ^2 /NDF: 20.0/17

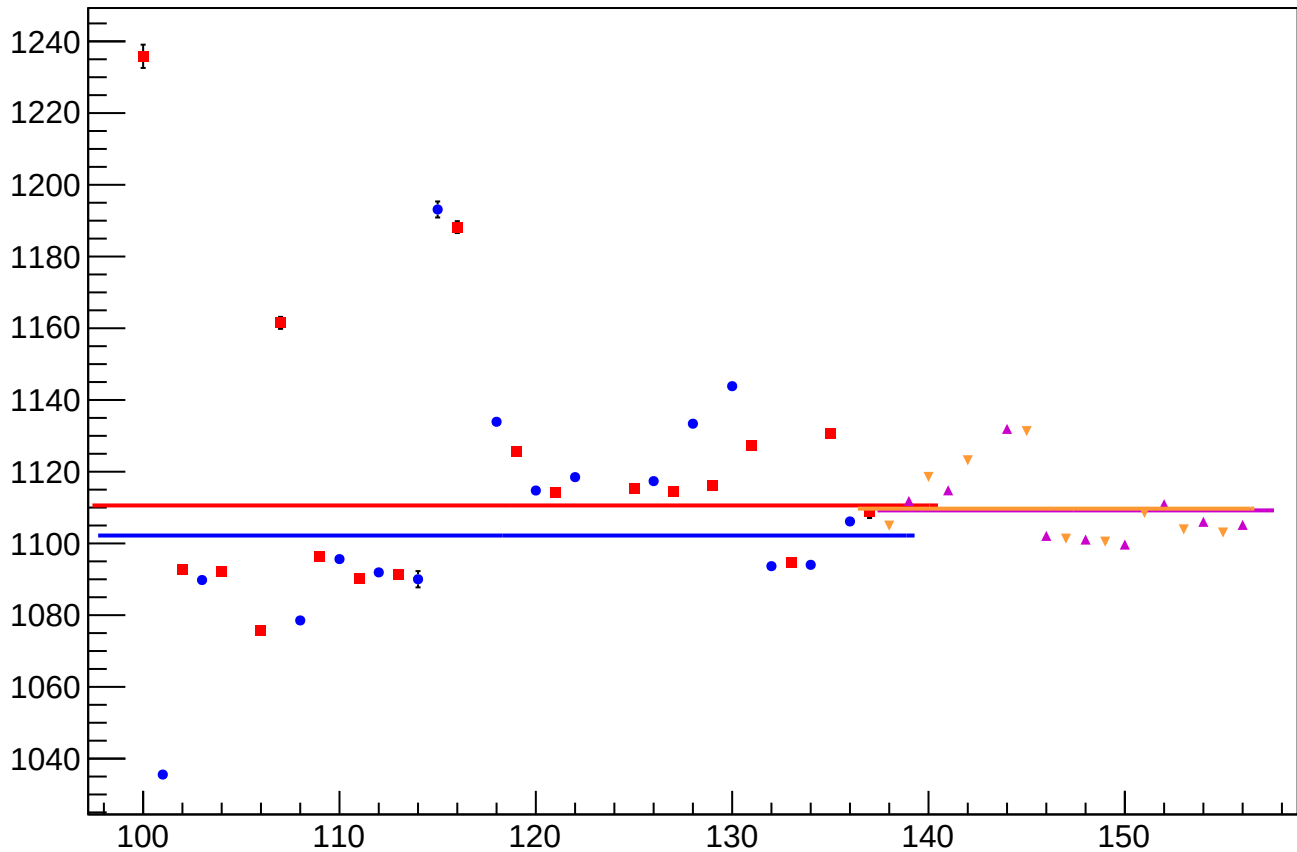
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1645.591 $\pm$ 284.715 χ^2 /NDF: 20.2/24

Out: 1782.558 $\pm$ 292.517 χ^2 /NDF: 19.0/26

All: 1712.223 $\pm$ 204.026 χ^2 /NDF: 39.4/51

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205 $\pm$ 0.290 χ^2 /NDF: 11348.9/15

Left Out: 1109.705 $\pm$ 0.296 χ^2 /NDF:1174.9/8

Right Out: 1110.592 $\pm$ 0.289 χ^2 /NDF: 7696.0/17

Left In: 1109.212 $\pm$ 0.280 χ^2 /NDF:1122.6/8

Left: 1109.445 $\pm$ 0.203 χ^2 /NDF: 2299.0/17

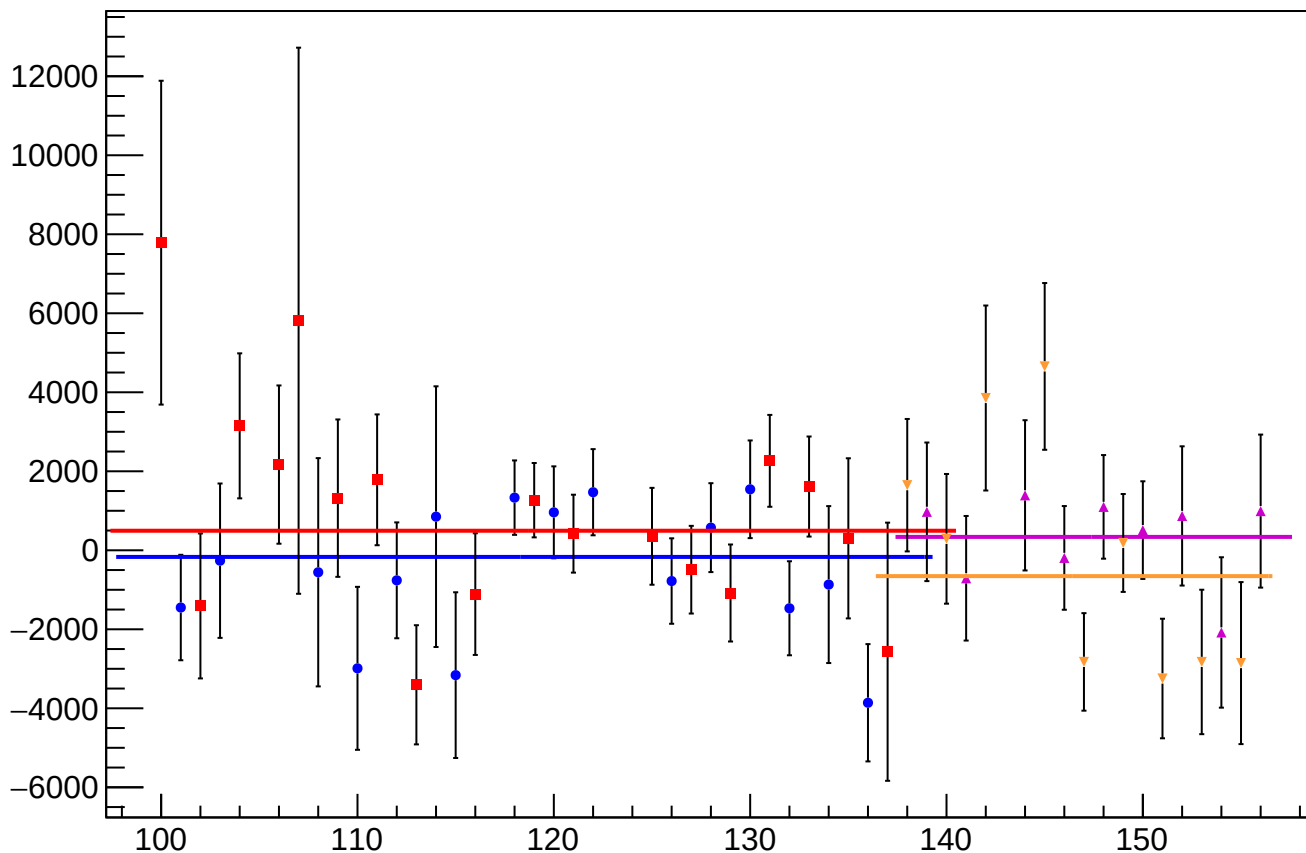
Right: 1106.401 $\pm$ 0.205 χ^2 /NDF: 19464.6/33

In: 1105.825 $\pm$ 0.201 χ^2 /NDF:12774.1/24

Out: 1110.158 $\pm$ 0.207 χ^2 /NDF:8875.6/26

All: 1107.933 $\pm$ 0.144 χ^2 /NDF: 21874.9/51

asym_usl_reg_correction_mean vs Slug, Sign Corrected



Right In: -167.891 ± 345.441 χ^2/NDF : 21.0/15

Left Out: -653.958 ± 541.139 χ^2/NDF : 21.3/8

Right Out: 495.172 ± 345.054 χ^2/NDF : 23.3/17

Left In: 338.926 ± 520.950 χ^2/NDF : 3.2/8

Left: -138.649 ± 375.301 χ^2/NDF : 26.3/17

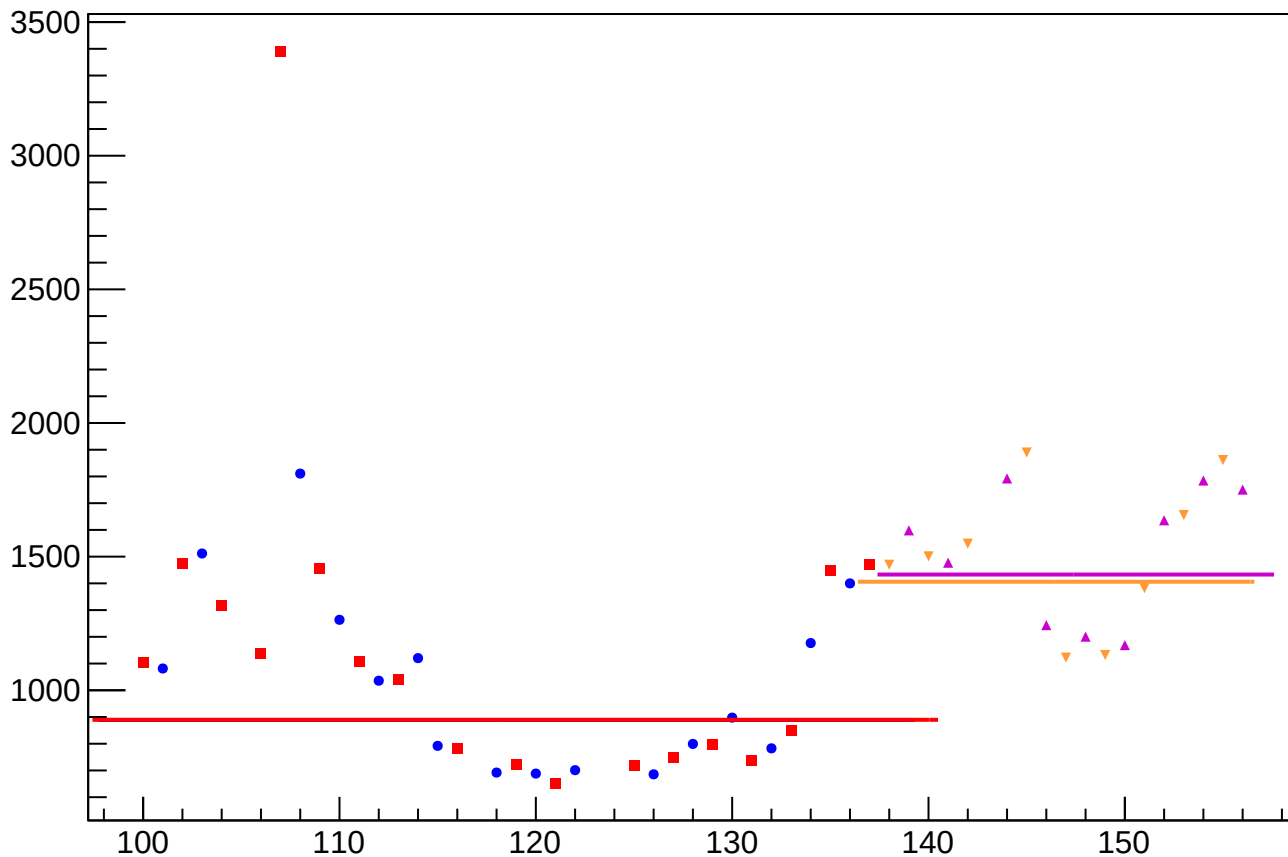
Right: 164.012 ± 244.127 χ^2/NDF : 46.1/33

In: -13.104 ± 287.898 χ^2/NDF : 24.9/24

Out: 163.003 ± 290.940 χ^2/NDF : 47.8/26

All: 74.024 ± 204.642 χ^2/NDF : 72.9/51

asym_usl_reg_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1406.107+/-0.383 χ^2/NDF : 461900.6/8

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1433.044+/-0.368 χ^2/NDF : 435218.0/8

Left: 1420.087+/-0.265 χ^2/NDF : 899690.6/17

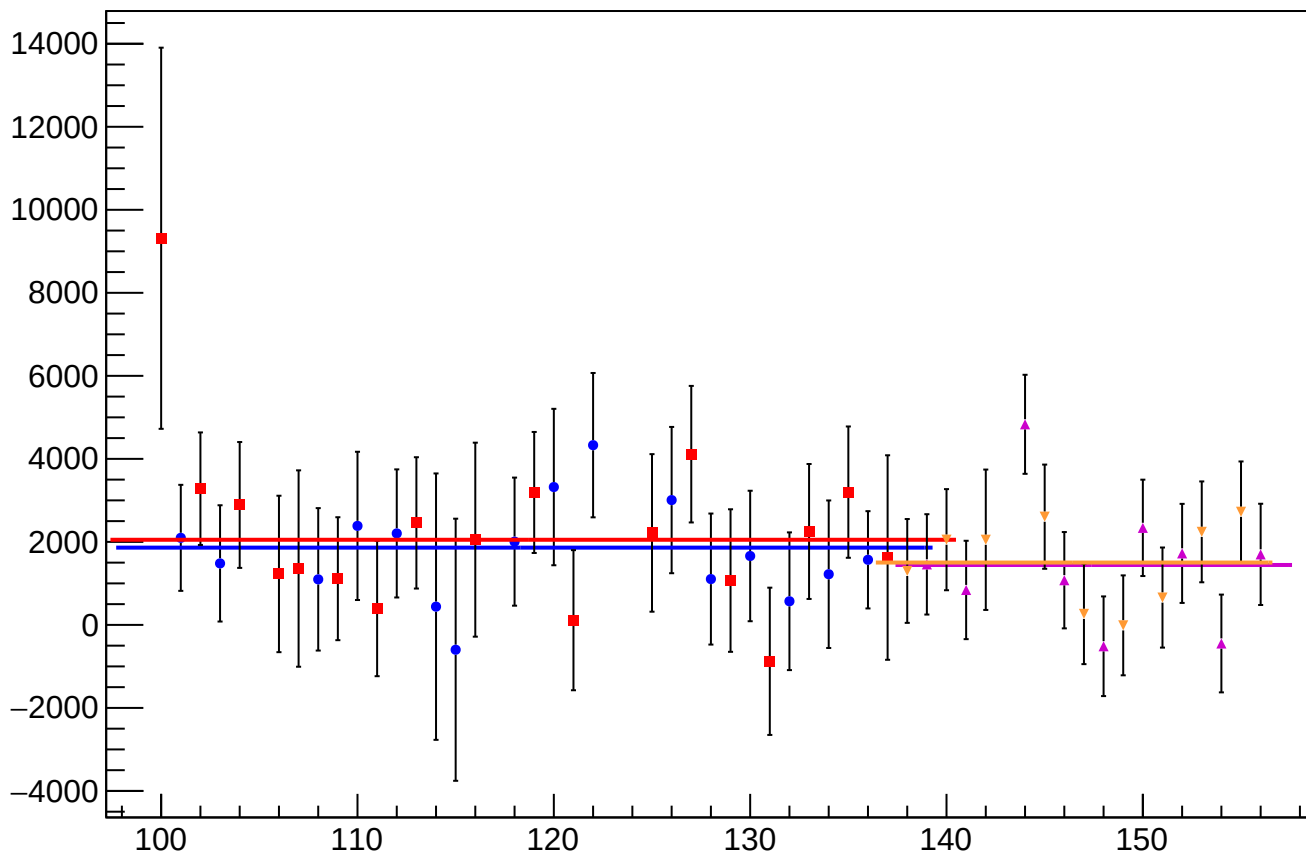
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1055.126+/-0.204 χ^2/NDF : 3083303.1/24

Out: 1038.815+/-0.206 χ^2/NDF : 3103643.8/26

All: 1047.057+/-0.145 χ^2/NDF : 6190123.1/51

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1502.326 $\pm$ 418.262 χ^2 /NDF: 5.6/8

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1443.574 $\pm$ 396.106 χ^2 /NDF: 14.4/8

Left: 1471.353 $\pm$ 287.603 χ^2 /NDF: 20.0/17

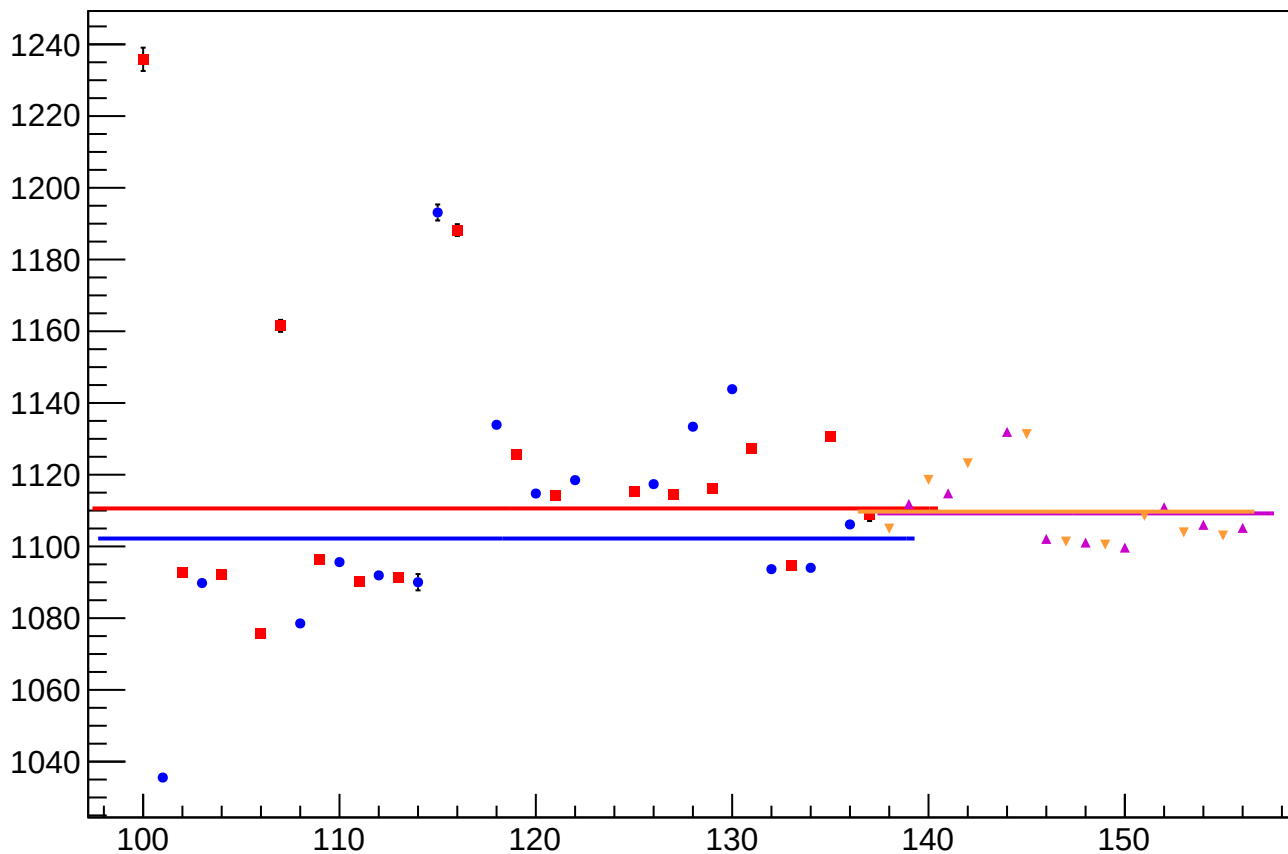
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1645.591 $\pm$ 284.715 χ^2 /NDF: 20.2/24

Out: 1782.558 $\pm$ 292.517 χ^2 /NDF: 19.0/26

All: 1712.223 $\pm$ 204.026 χ^2 /NDF: 39.4/51

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205+/-0.290 χ^2/NDF : 11348.9/15

Left Out: 1109.705+/-0.296 χ^2/NDF : 1174.9/8

Right Out: 1110.592+/-0.289 χ^2/NDF : 7696.0/17

Left In: 1109.212+/-0.280 χ^2/NDF : 1122.6/8

Left: 1109.445+/-0.203 χ^2/NDF : 2299.0/17

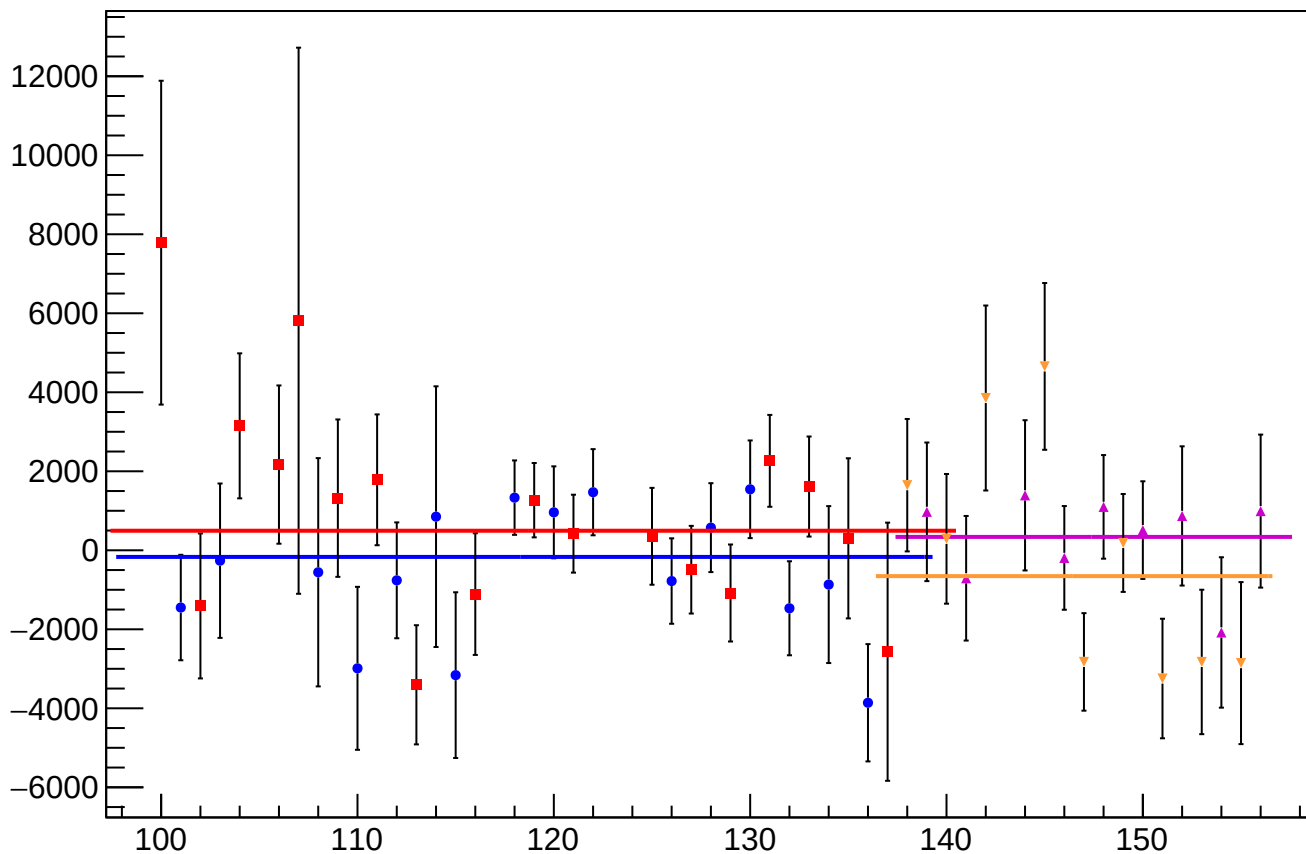
Right: 1106.401+/-0.205 χ^2/NDF : 19464.6/33

In: 1105.825+/-0.201 χ^2/NDF : 12774.1/24

Out: 1110.158+/-0.207 χ^2/NDF : 8875.6/26

All: 1107.933+/-0.144 χ^2/NDF : 21874.9/51

asym_usl_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891 $\pm$ 345.441 χ^2 /NDF: 21.0/15

Left Out: -653.958 $\pm$ 541.139 χ^2 /NDF:21.3/8

Right Out: 495.172 $\pm$ 345.054 χ^2 /NDF: 23.3/17

Left In: 338.926 $\pm$ 520.950 χ^2 /NDF:3.2/8

Left: -138.649 $\pm$ 375.301 χ^2 /NDF: 26.3/17

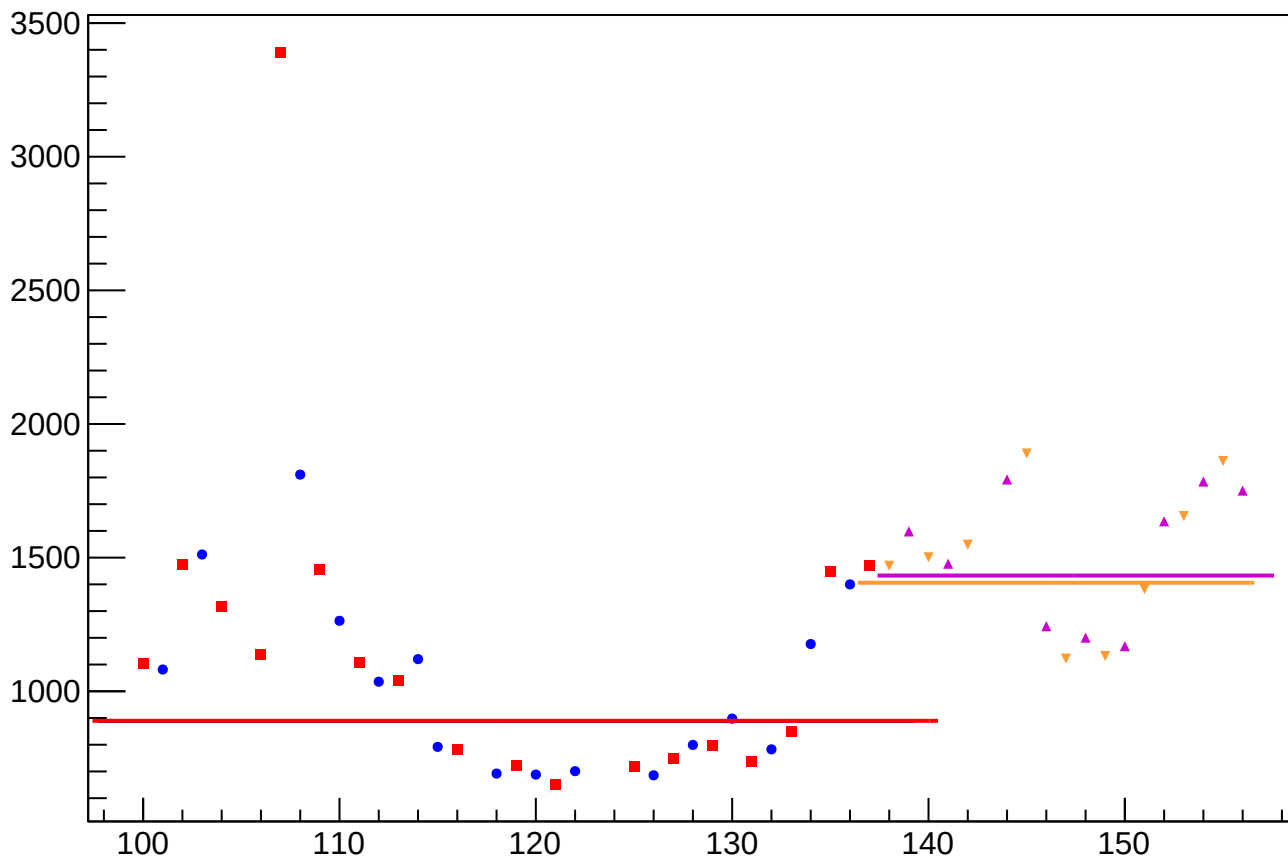
Right: 164.012 $\pm$ 244.127 χ^2 /NDF: 46.1/33

In: -13.104 $\pm$ 287.898 χ^2 /NDF:24.9/24

Out: 163.003 $\pm$ 290.940 χ^2 /NDF:47.8/26

All: 74.024 $\pm$ 204.642 χ^2 /NDF: 72.9/51

asym_usl_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1406.107+/-0.383 χ^2/NDF : 461900.6/8

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1433.044+/-0.368 χ^2/NDF : 435218.0/8

Left: 1420.087+/-0.265 χ^2/NDF : 899690.6/17

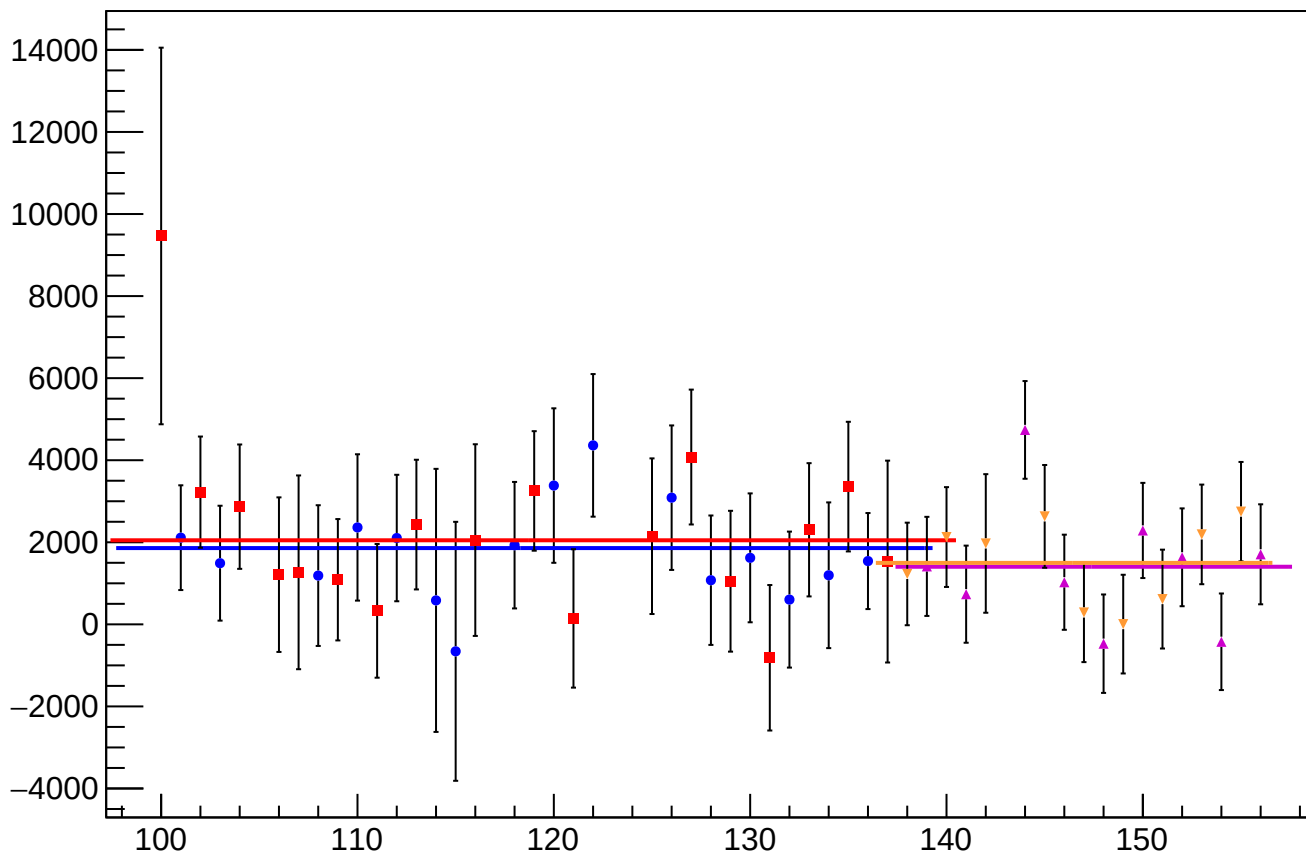
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1055.126+/-0.204 χ^2/NDF : 3083303.1/24

Out: 1038.815+/-0.206 χ^2/NDF : 3103643.8/26

All: 1047.057+/-0.145 χ^2/NDF : 6190123.1/51

overload_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1858.683 $\pm$ 409.170 χ^2 /NDF: 5.4/15

Left Out: 1497.736 $\pm$ 417.811 χ^2 /NDF:5.7/8

Right Out: 2048.674 $\pm$ 408.894 χ^2 /NDF: 12.7/17

Left In: 1403.824 $\pm$ 395.686 χ^2 /NDF:13.8/8

Left: 1448.228 $\pm$ 287.296 χ^2 /NDF: 19.5/17

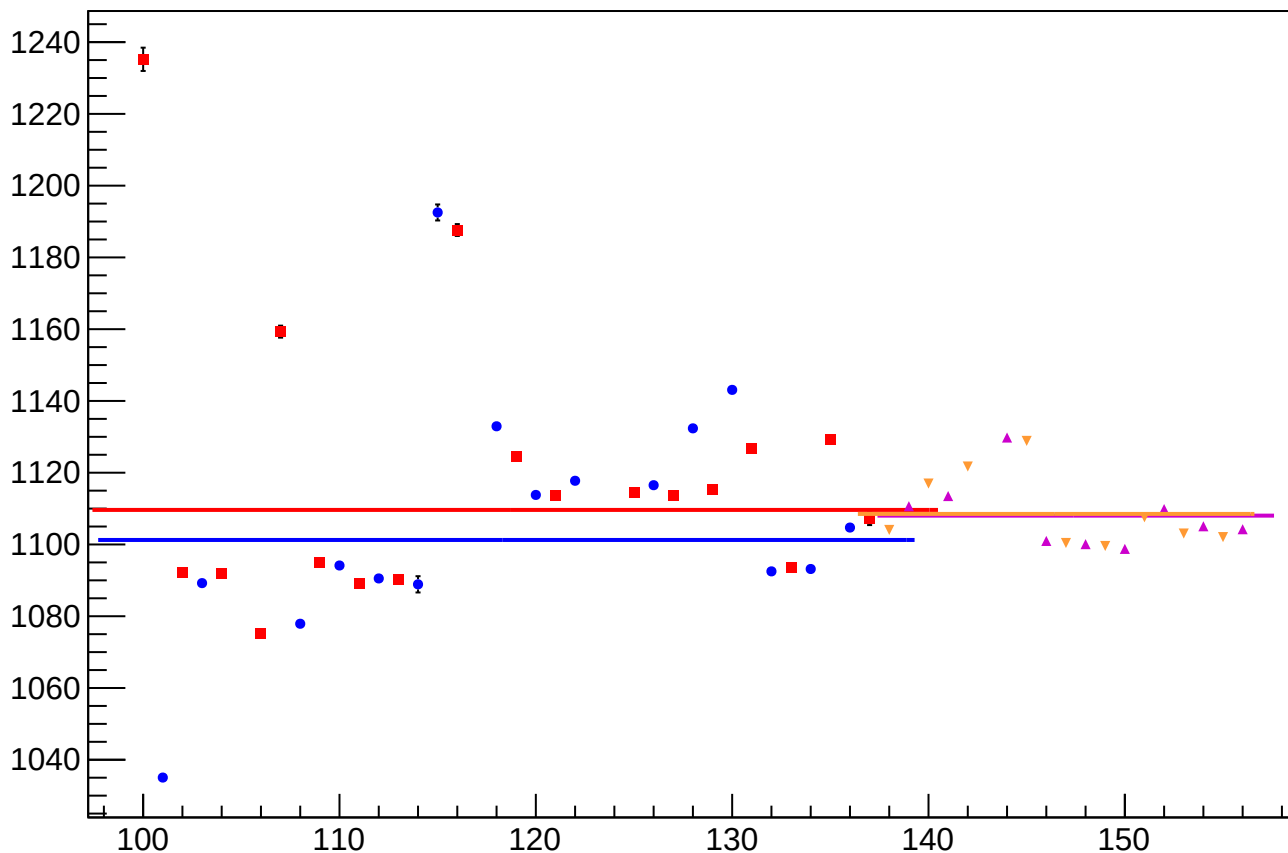
Right: 1953.743 $\pm$ 289.229 χ^2 /NDF: 18.3/33

In: 1623.635 $\pm$ 284.440 χ^2 /NDF:19.9/24

Out: 1779.147 $\pm$ 292.233 χ^2 /NDF:19.3/26

All: 1699.290 $\pm$ 203.829 χ^2 /NDF: 39.3/51

overload_cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1101.254+/-0.289 χ^2/NDF : 11308.3/15

Left Out: 1108.513+/-0.295 χ^2/NDF : 1071.5/8

Right Out: 1109.629+/-0.289 χ^2/NDF : 7673.1/17

Left In: 1108.037+/-0.280 χ^2/NDF : 1046.7/8

Left: 1108.262+/-0.203 χ^2/NDF : 2119.6/17

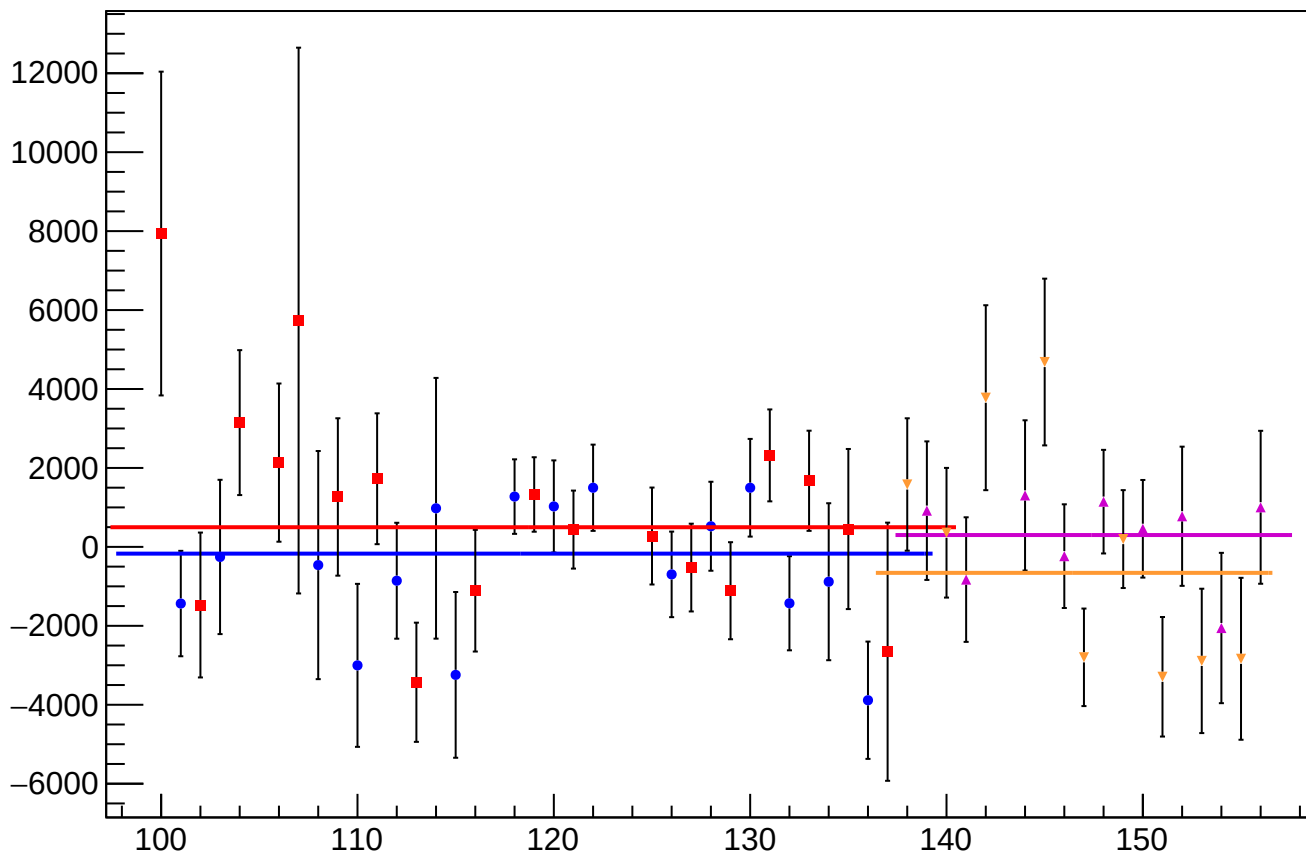
Right: 1105.444+/-0.205 χ^2/NDF : 19400.5/33

In: 1104.759+/-0.201 χ^2/NDF : 12638.9/24

Out: 1109.083+/-0.207 χ^2/NDF : 8751.9/26

All: 1106.863+/-0.144 χ^2/NDF : 21615.6/51

asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -170.930+/-345.980 χ^2/NDF : 20.9/15

Left Out: -658.075+/-541.491 χ^2/NDF : 21.3/8

Right Out: 497.957+/-345.565 χ^2/NDF : 23.9/17

Left In: 300.170+/-521.279 χ^2/NDF : 3.2/8

Left: -160.735+/-375.542 χ^2/NDF : 26.1/17

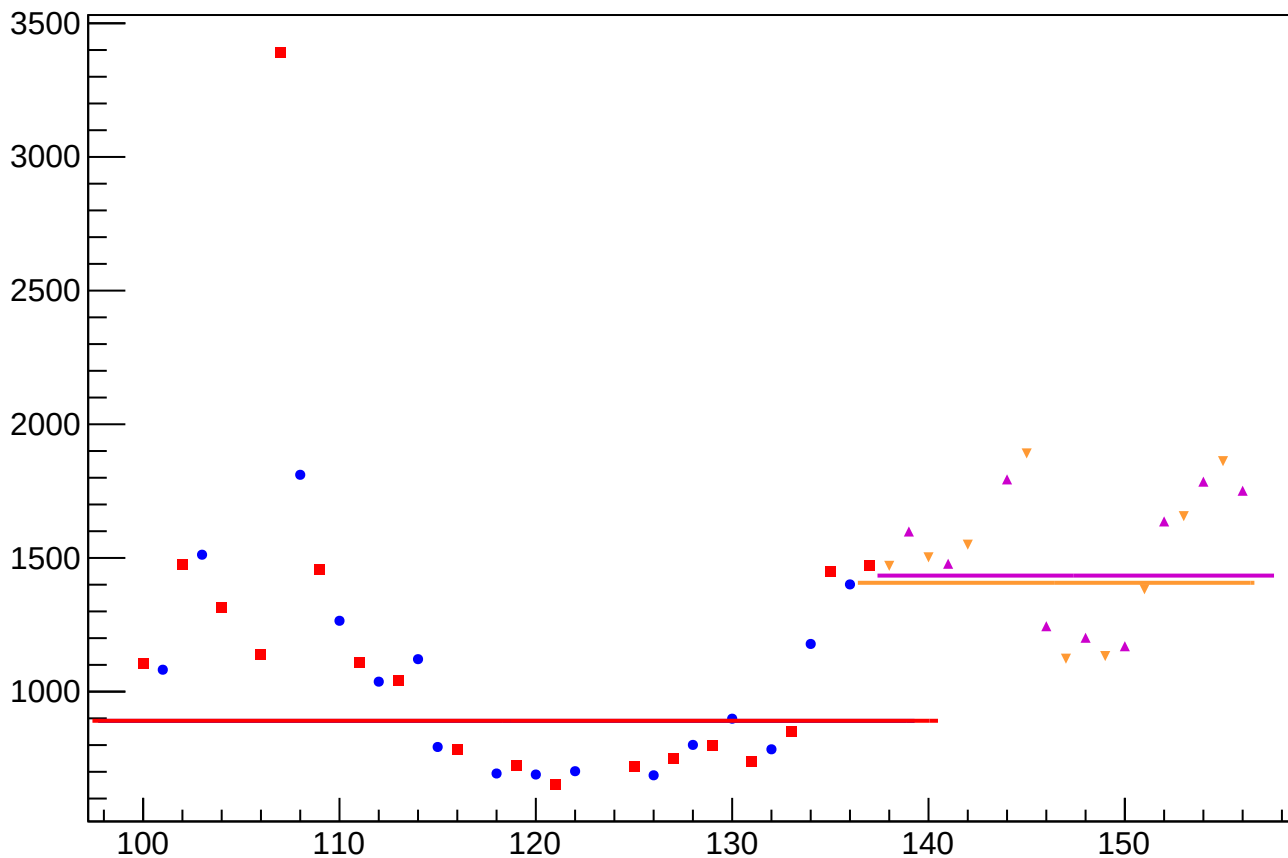
Right: 163.915+/-244.498 χ^2/NDF : 46.7/33

In: -26.865+/-288.265 χ^2/NDF : 24.7/24

Out: 163.399+/-291.301 χ^2/NDF : 48.4/26

All: 67.270+/-204.899 χ^2/NDF : 73.4/51

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 890.495 $\pm$ 0.245 χ^2/NDF : 1128739.3/15

Left Out: 1407.063 $\pm$ 0.383 χ^2/NDF : 461317.4/8

Right Out: 890.938 $\pm$ 0.244 χ^2/NDF : 1341804.2/17

Left In: 1433.986 $\pm$ 0.369 χ^2/NDF : 434589.4/8

Left: 1421.036 $\pm$ 0.266 χ^2/NDF : 898473.1/17

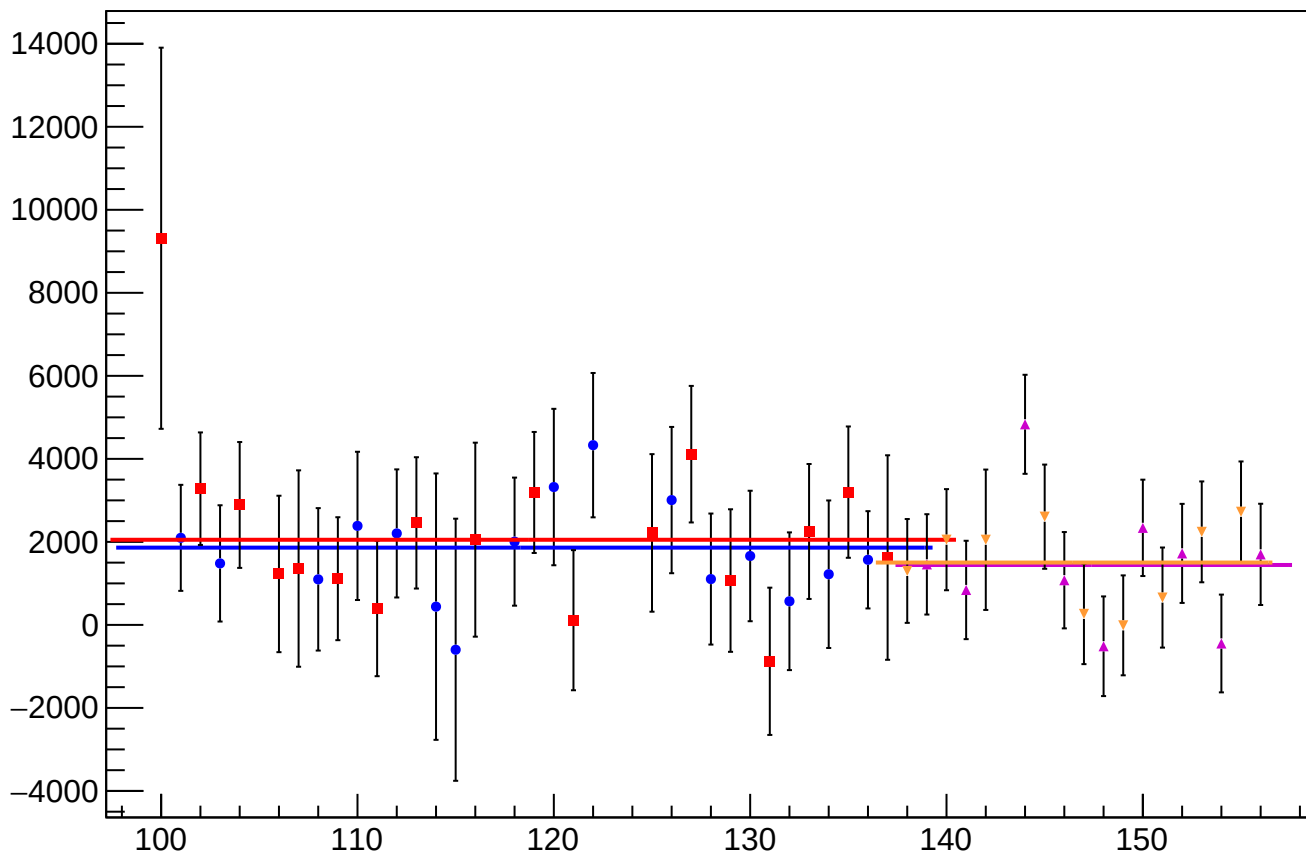
Right: 890.717 $\pm$ 0.173 χ^2/NDF : 2470545.1/33

In: 1056.697 $\pm$ 0.204 χ^2/NDF : 3072564.2/24

Out: 1040.306 $\pm$ 0.206 χ^2/NDF : 3094280.3/26

All: 1048.587 $\pm$ 0.145 χ^2/NDF : 6170043.8/51

eigen_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1502.326 $\pm$ 418.262 χ^2 /NDF: 5.6/8

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1443.574 $\pm$ 396.106 χ^2 /NDF: 14.4/8

Left: 1471.353 $\pm$ 287.603 χ^2 /NDF: 20.0/17

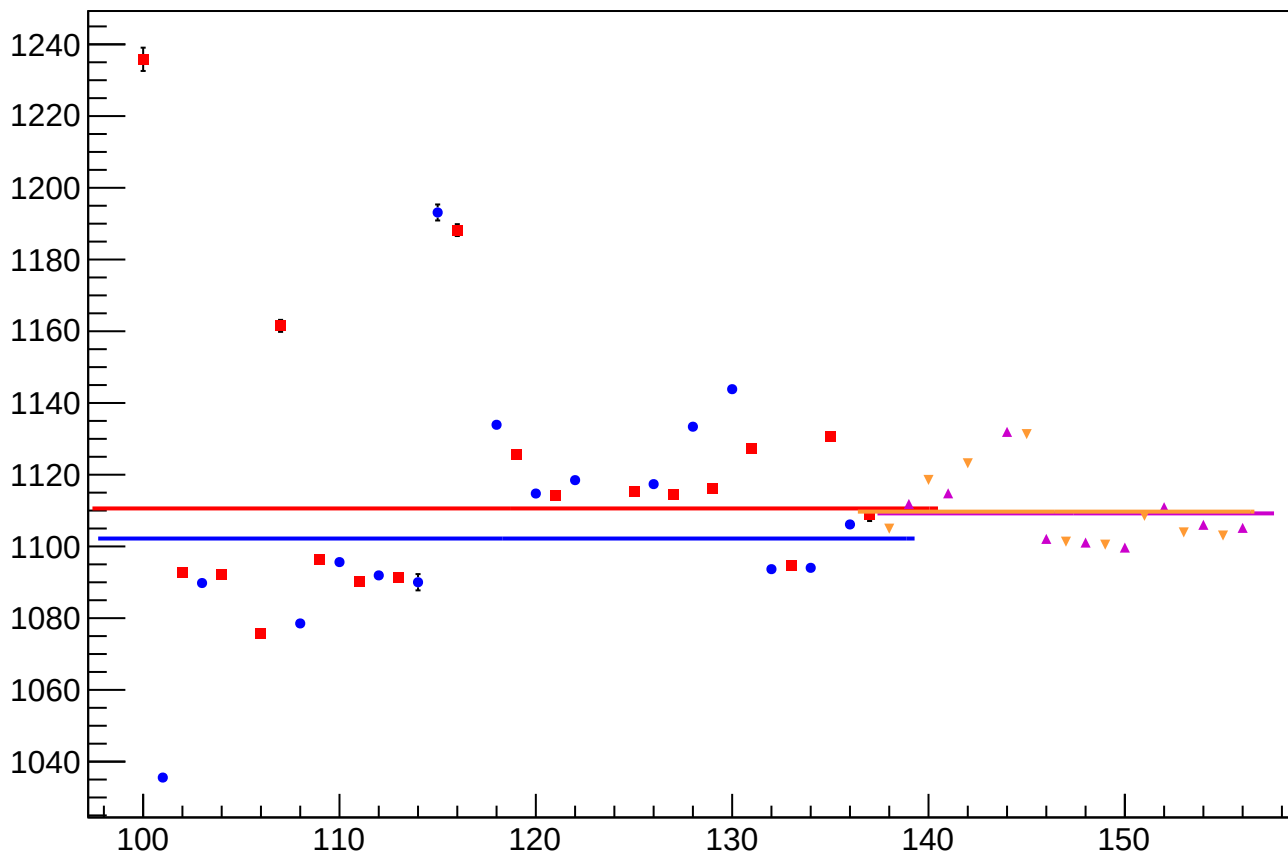
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1645.591 $\pm$ 284.715 χ^2 /NDF: 20.2/24

Out: 1782.558 $\pm$ 292.517 χ^2 /NDF: 19.0/26

All: 1712.223 $\pm$ 204.026 χ^2 /NDF: 39.4/51

eigen_cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205 $\pm$ 0.290 χ^2 /NDF: 11348.9/15

Left Out: 1109.705 $\pm$ 0.296 χ^2 /NDF:1174.9/8

Right Out: 1110.592 $\pm$ 0.289 χ^2 /NDF: 7696.0/17

Left In: 1109.212 $\pm$ 0.280 χ^2 /NDF:1122.6/8

Left: 1109.445 $\pm$ 0.203 χ^2 /NDF: 2299.0/17

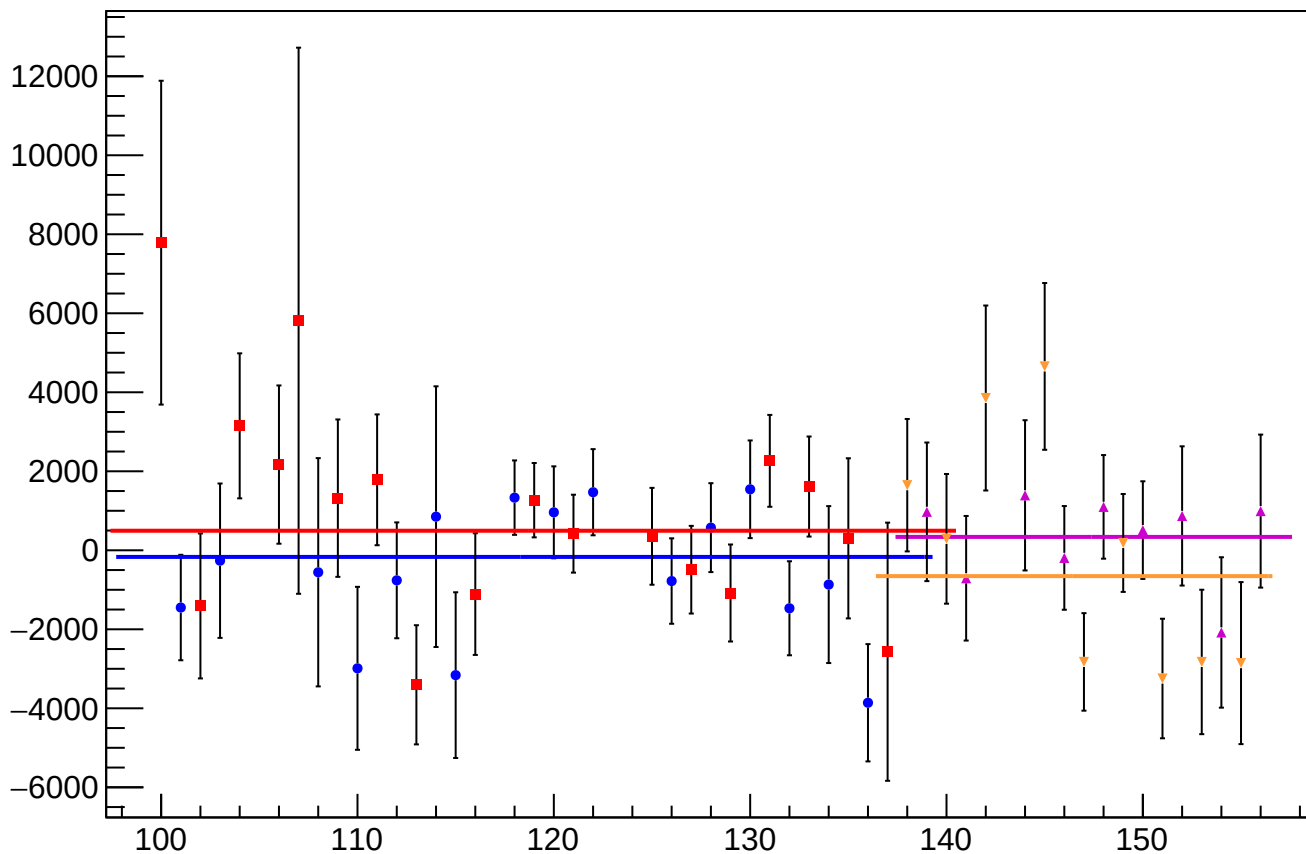
Right: 1106.401 $\pm$ 0.205 χ^2 /NDF: 19464.6/33

In: 1105.825 $\pm$ 0.201 χ^2 /NDF:12774.1/24

Out: 1110.158 $\pm$ 0.207 χ^2 /NDF:8875.6/26

All: 1107.933 $\pm$ 0.144 χ^2 /NDF: 21874.9/51

asym_usl_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891+/-345.441 χ^2/NDF : 21.0/15

Left Out: -653.958+/-541.139 χ^2/NDF : 21.3/8

Right Out: 495.172+/-345.054 χ^2/NDF : 23.3/17

Left In: 338.926+/-520.950 χ^2/NDF : 3.2/8

Left: -138.649+/-375.301 χ^2/NDF : 26.3/17

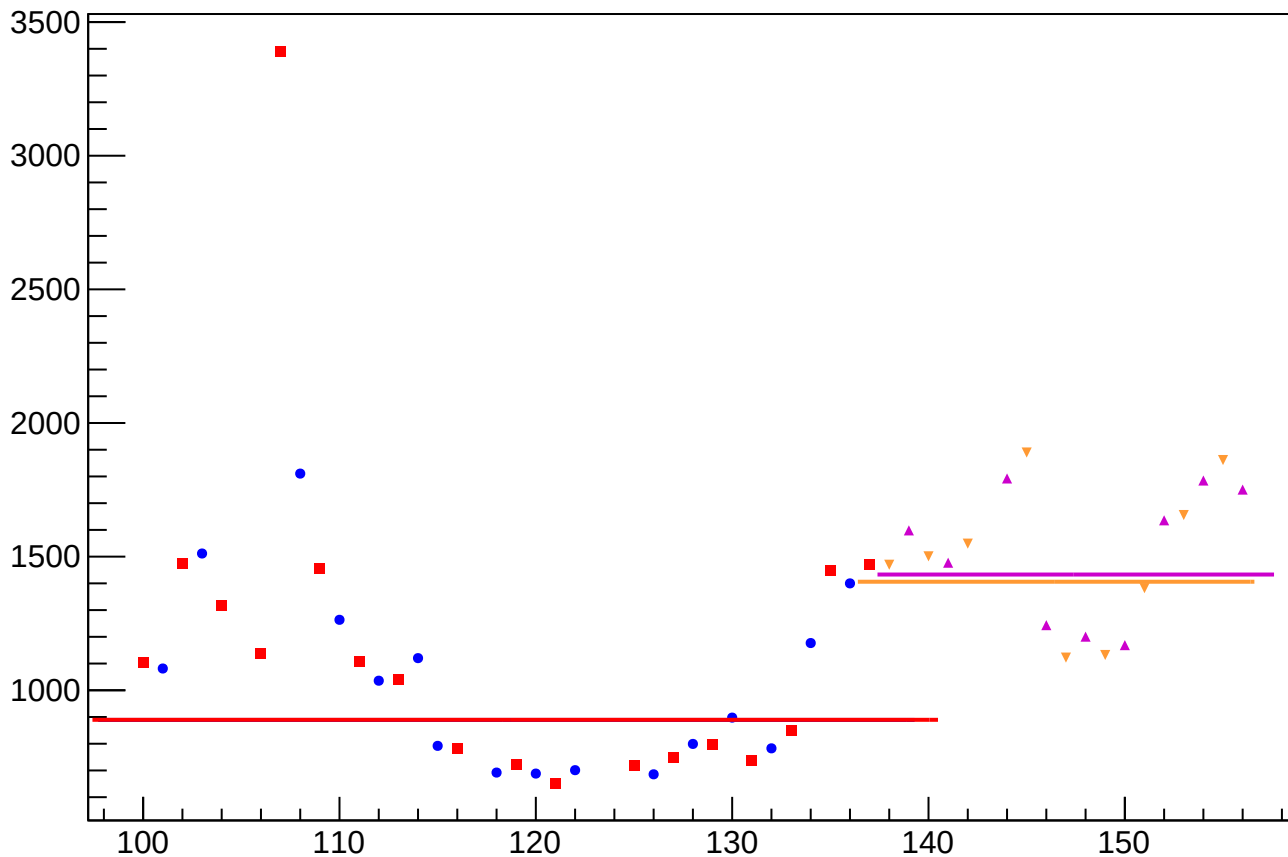
Right: 164.012+/-244.127 χ^2/NDF : 46.1/33

In: -13.104+/-287.898 χ^2/NDF : 24.9/24

Out: 163.003+/-290.940 χ^2/NDF : 47.8/26

All: 74.024+/-204.642 χ^2/NDF : 72.9/51

asym_usl_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1406.107+/-0.383 χ^2/NDF : 461900.6/8

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1433.044+/-0.368 χ^2/NDF : 435218.0/8

Left: 1420.087+/-0.265 χ^2/NDF : 899690.6/17

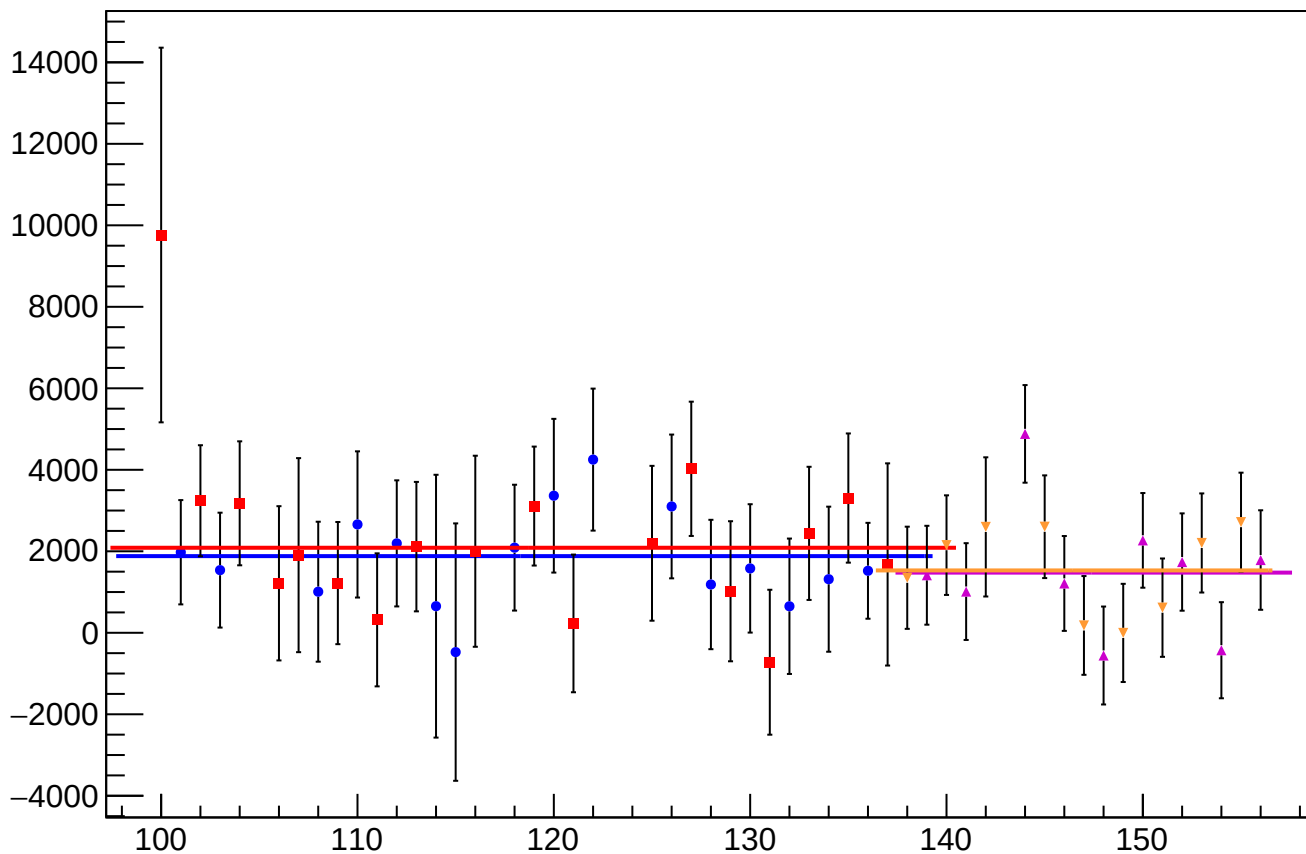
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1055.126+/-0.204 χ^2/NDF : 3083303.1/24

Out: 1038.815+/-0.206 χ^2/NDF : 3103643.8/26

All: 1047.057+/-0.145 χ^2/NDF : 6190123.1/51

dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.524+/-410.700 χ^2/NDF : 5.2/15

Left Out: 1530.452+/-419.229 χ^2/NDF : 6.1/8

Right Out: 2086.886+/-410.785 χ^2/NDF : 12.4/17

Left In: 1476.724+/-396.909 χ^2/NDF : 14.3/8

Left: 1502.120+/-288.225 χ^2/NDF : 20.4/17

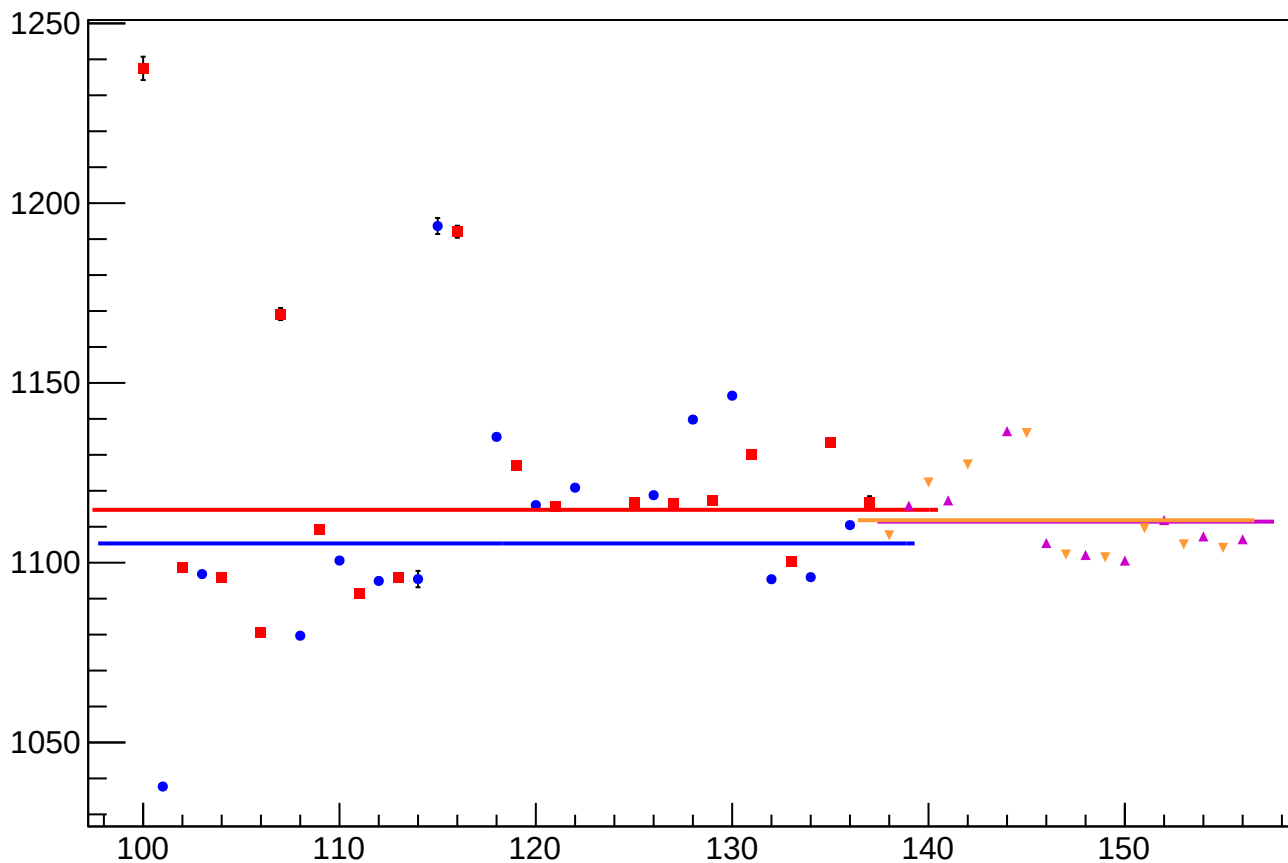
Right: 1984.184+/-290.439 χ^2/NDF : 17.7/33

In: 1672.213+/-285.408 χ^2/NDF : 20.0/24

Out: 1814.329+/-293.409 χ^2/NDF : 19.4/26

All: 1741.307+/-204.584 χ^2/NDF : 39.5/51

dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355 $\pm$ 0.290 χ^2 /NDF: 11330.9/15

Left Out: 1111.815 $\pm$ 0.296 χ^2 /NDF:1492.8/8

Right Out: 1114.705 $\pm$ 0.290 χ^2 /NDF: 7330.3/17

Left In: 1111.419 $\pm$ 0.281 χ^2 /NDF:1360.9/8

Left: 1111.606 $\pm$ 0.204 χ^2 /NDF: 2854.6/17

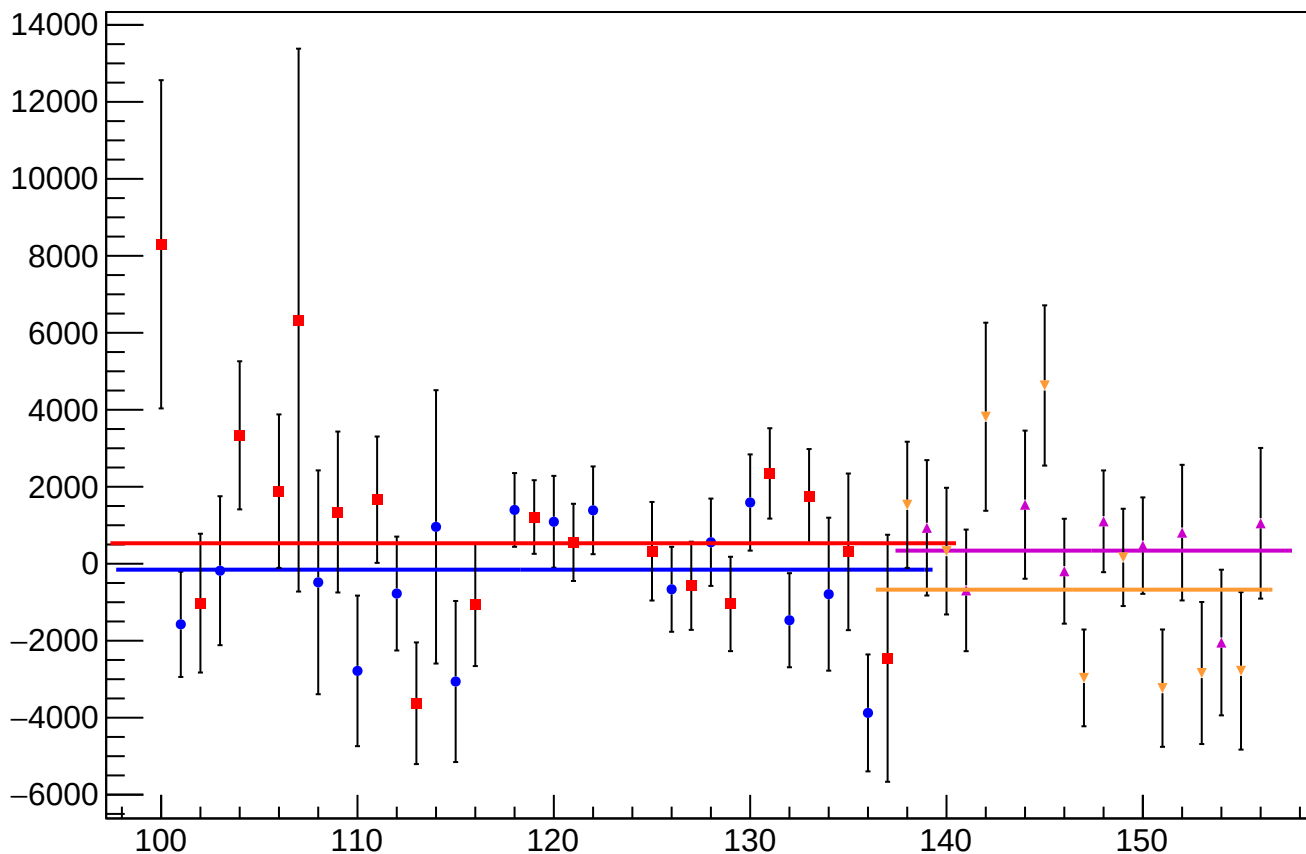
Right: 1110.029 $\pm$ 0.205 χ^2 /NDF: 19179.4/33

In: 1108.491 $\pm$ 0.202 χ^2 /NDF:12917.3/24

Out: 1113.289 $\pm$ 0.207 χ^2 /NDF:8871.6/26

All: 1110.824 $\pm$ 0.145 χ^2 /NDF: 22063.7/51

asym_usl_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.999 ± 351.318 $\chi^2/\text{NDF}: 20.5/15$

Left Out: -673.725 ± 545.423 $\chi^2/\text{NDF}: 21.1/8$

Right Out: 532.155 ± 350.407 $\chi^2/\text{NDF}: 23.2/17$

Left In: 340.677 ± 526.759 $\chi^2/\text{NDF}: 3.2/8$

Left: -148.872 ± 378.901 $\chi^2/\text{NDF}: 26.1/17$

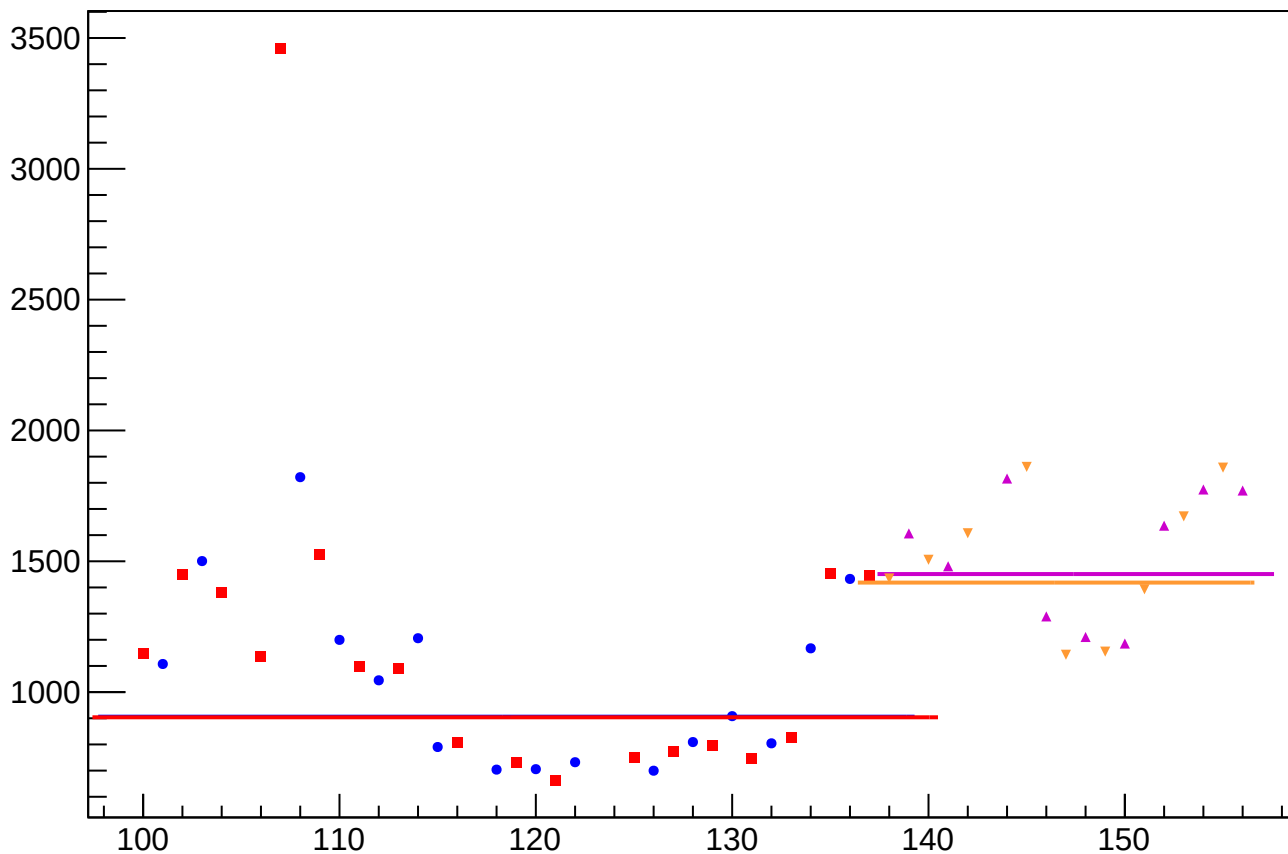
Right: 189.968 ± 248.097 $\chi^2/\text{NDF}: 45.6/33$

In: -1.704 ± 292.277 $\chi^2/\text{NDF}: 24.3/24$

Out: 179.849 ± 294.809 $\chi^2/\text{NDF}: 47.8/26$

All: 88.289 ± 207.561 $\chi^2/\text{NDF}: 72.2/51$

asym_usl_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.036 $\pm$ 0.248 χ^2 /NDF: 1079435.1/15

Left Out: 1418.609 $\pm$ 0.386 χ^2 /NDF: 421792.7/8

Right Out: 903.753 $\pm$ 0.248 χ^2 /NDF: 1339982.2/17

Left In: 1451.220 $\pm$ 0.372 χ^2 /NDF: 406128.2/8

Left: 1435.482 $\pm$ 0.268 χ^2 /NDF: 831620.3/17

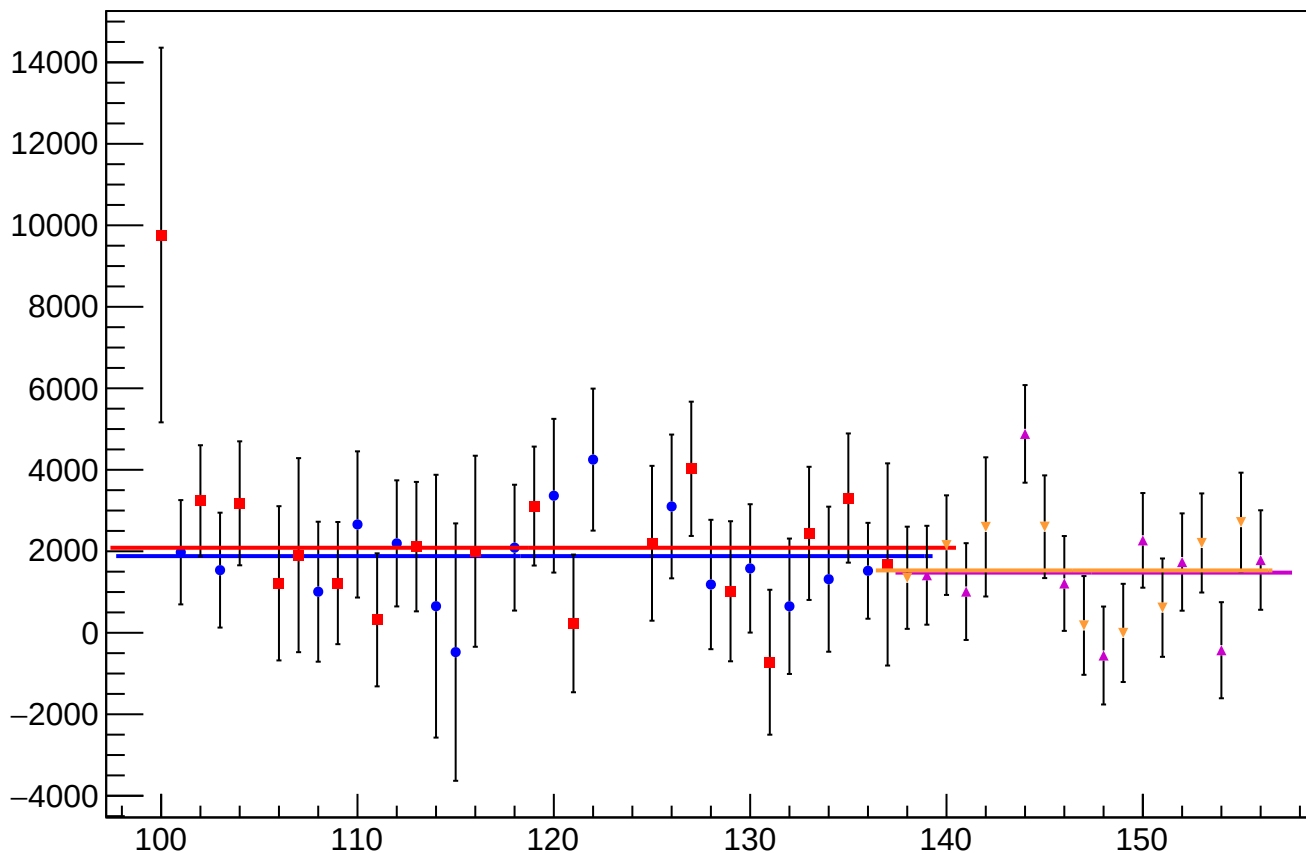
Right: 904.892 $\pm$ 0.175 χ^2 /NDF: 2419459.6/33

In: 1073.881 $\pm$ 0.207 χ^2 /NDF: 2968359.7/24

Out: 1054.172 $\pm$ 0.208 χ^2 /NDF: 3023230.6/26

All: 1064.111 $\pm$ 0.147 χ^2 /NDF: 5996098.2/51

eigen_dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.523+/-410.700 χ^2/NDF : 5.2/15

Left Out: 1530.446+/-419.229 χ^2/NDF : 6.1/8

Right Out: 2086.884+/-410.785 χ^2/NDF : 12.4/17

Left In: 1476.726+/-396.909 χ^2/NDF : 14.3/8

Left: 1502.118+/-288.225 χ^2/NDF : 20.4/17

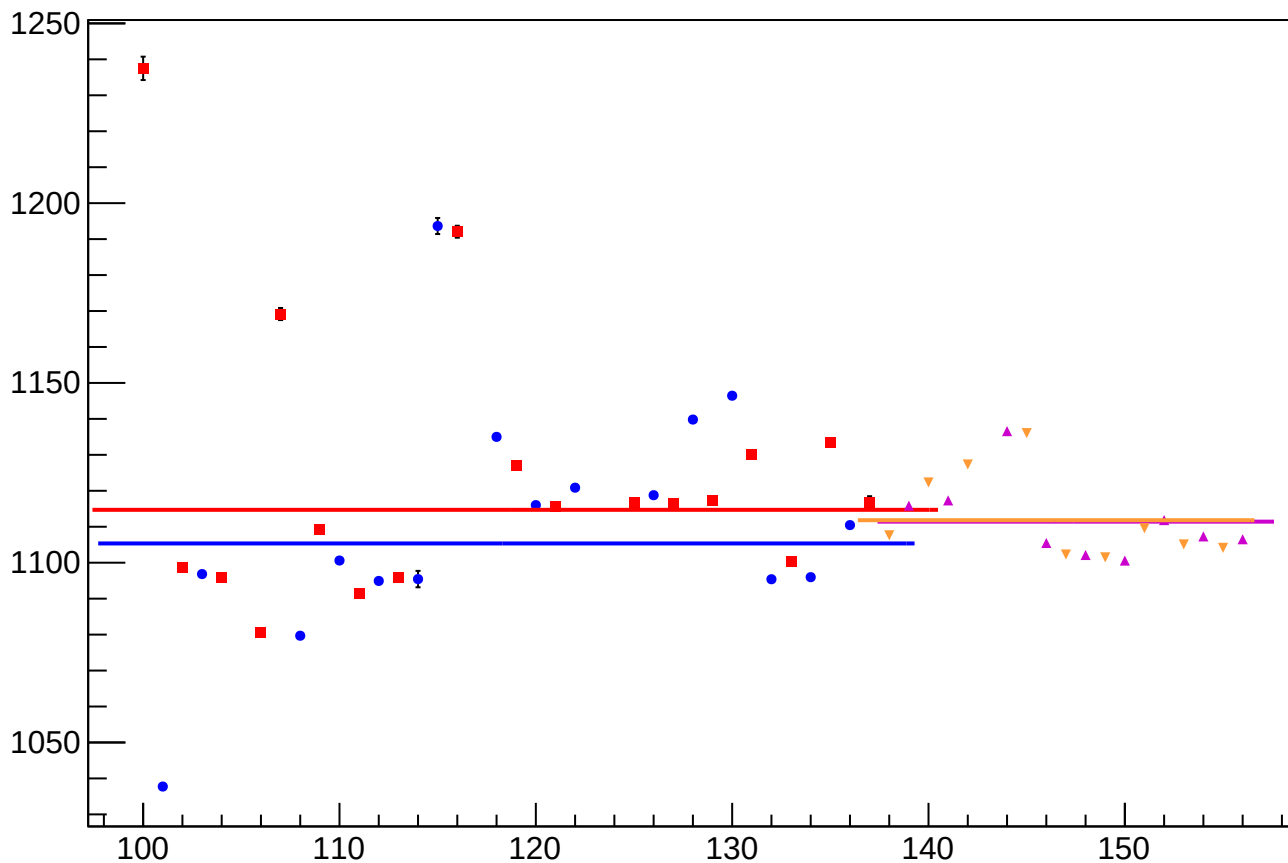
Right: 1984.182+/-290.439 χ^2/NDF : 17.7/33

In: 1672.214+/-285.408 χ^2/NDF : 20.0/24

Out: 1814.325+/-293.409 χ^2/NDF : 19.4/26

All: 1741.305+/-204.584 χ^2/NDF : 39.5/51

eigen_dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355+/-0.290 χ^2/NDF : 11330.9/15

Left Out: 1111.815+/-0.296 χ^2/NDF :1492.8/8

Right Out: 1114.705+/-0.290 χ^2/NDF : 7330.2/17

Left In: 1111.419+/-0.281 χ^2/NDF :1360.9/8

Left: 1111.606+/-0.204 χ^2/NDF : 2854.6/17

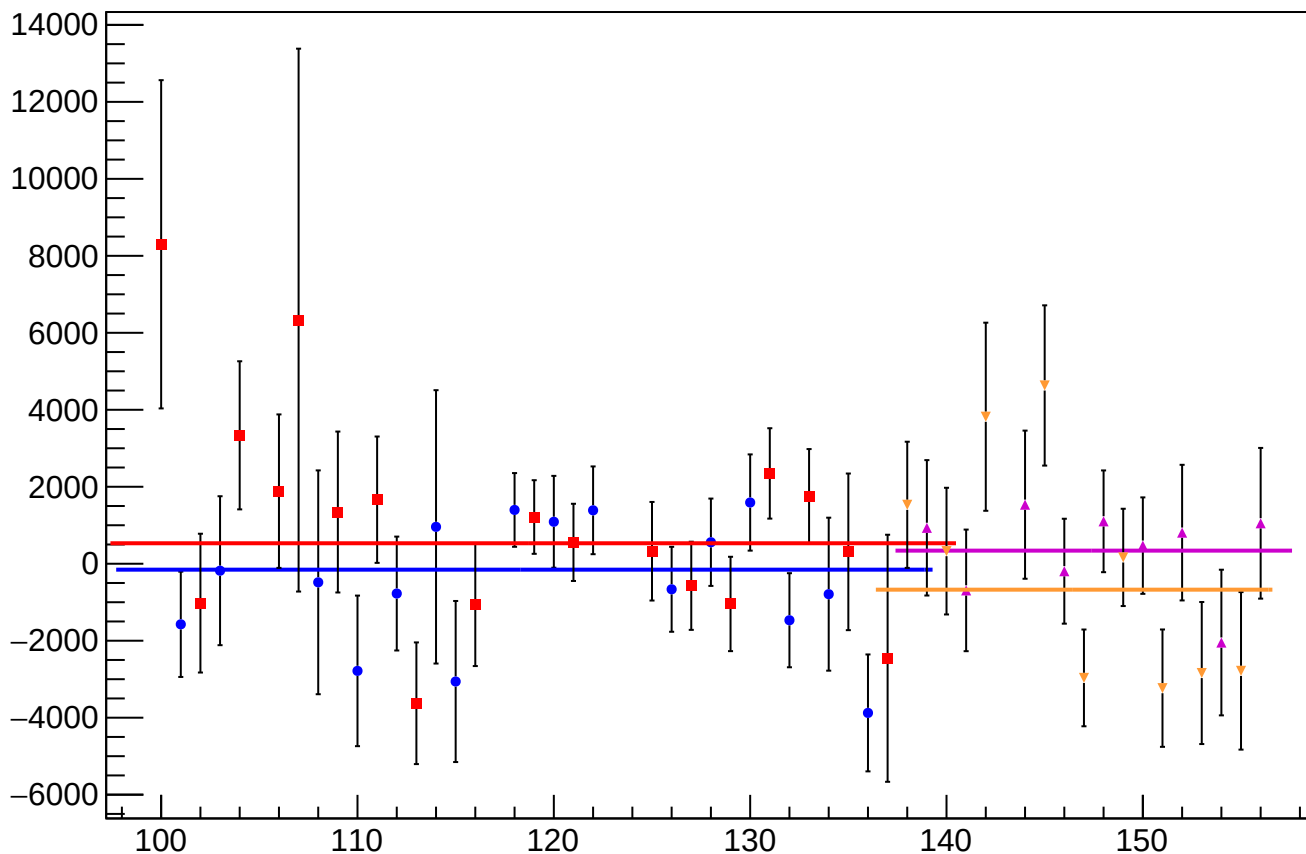
Right: 1110.029+/-0.205 χ^2/NDF : 19179.3/33

In: 1108.491+/-0.202 χ^2/NDF :12917.3/24

Out: 1113.289+/-0.207 χ^2/NDF :8871.5/26

All: 1110.824+/-0.145 χ^2/NDF : 22063.6/51

asym_usl_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.998+/-351.317 χ^2/NDF : 20.5/15

Left Out: -673.731+/-545.424 χ^2/NDF : 21.1/8

Right Out: 532.154+/-350.406 χ^2/NDF : 23.2/17

Left In: 340.679+/-526.760 χ^2/NDF : 3.2/8

Left: -148.873+/-378.902 χ^2/NDF : 26.1/17

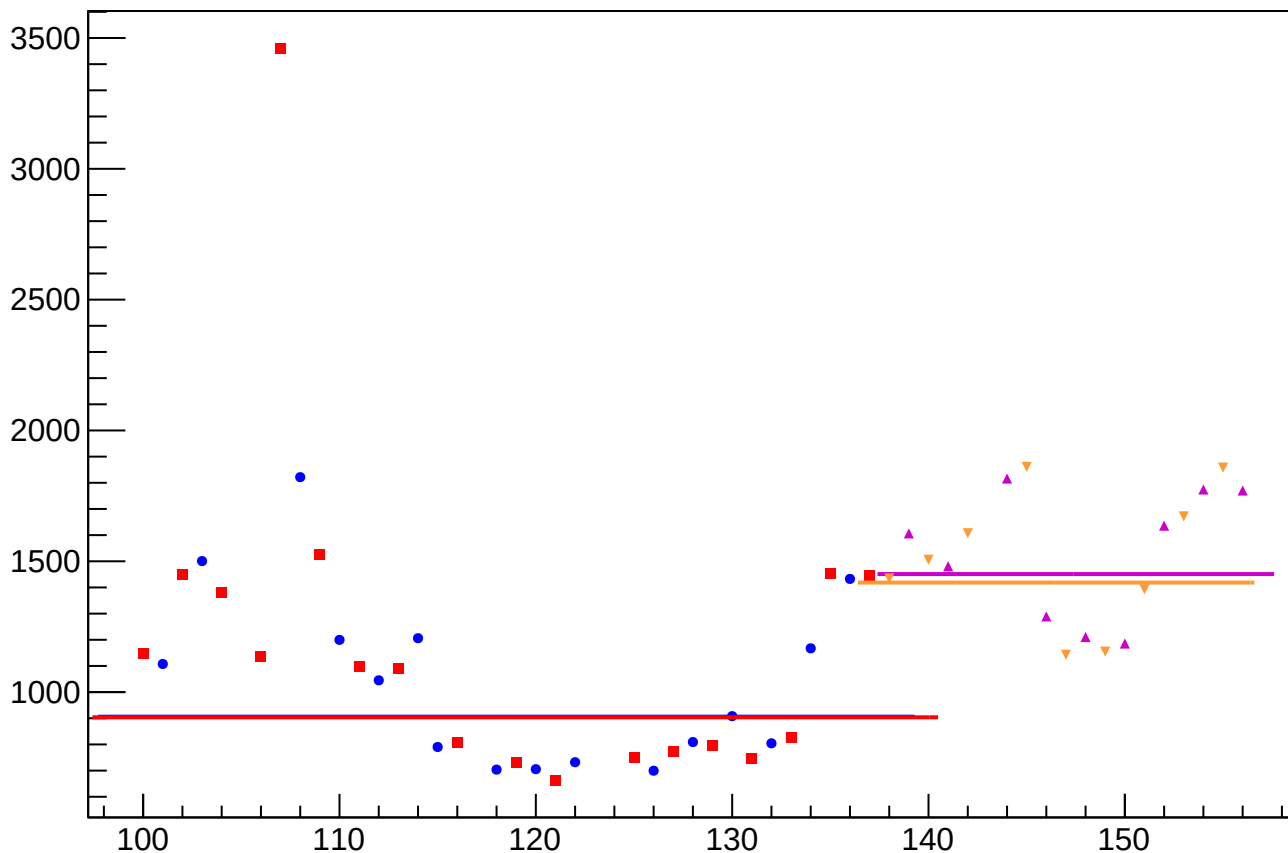
Right: 189.969+/-248.096 χ^2/NDF : 45.6/33

In: -1.704+/-292.277 χ^2/NDF : 24.3/24

Out: 179.849+/-294.809 χ^2/NDF : 47.8/26

All: 88.289+/-207.560 χ^2/NDF : 72.2/51

asym_usl_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.034 $\pm$ 0.248 χ^2 /NDF: 1079440.1/15

Left Out: 1418.612 $\pm$ 0.386 χ^2 /NDF: 421790.9/8

Right Out: 903.751 $\pm$ 0.248 χ^2 /NDF: 1339985.4/17

Left In: 1451.222 $\pm$ 0.372 χ^2 /NDF: 406125.3/8

Left: 1435.484 $\pm$ 0.268 χ^2 /NDF: 831615.5/17

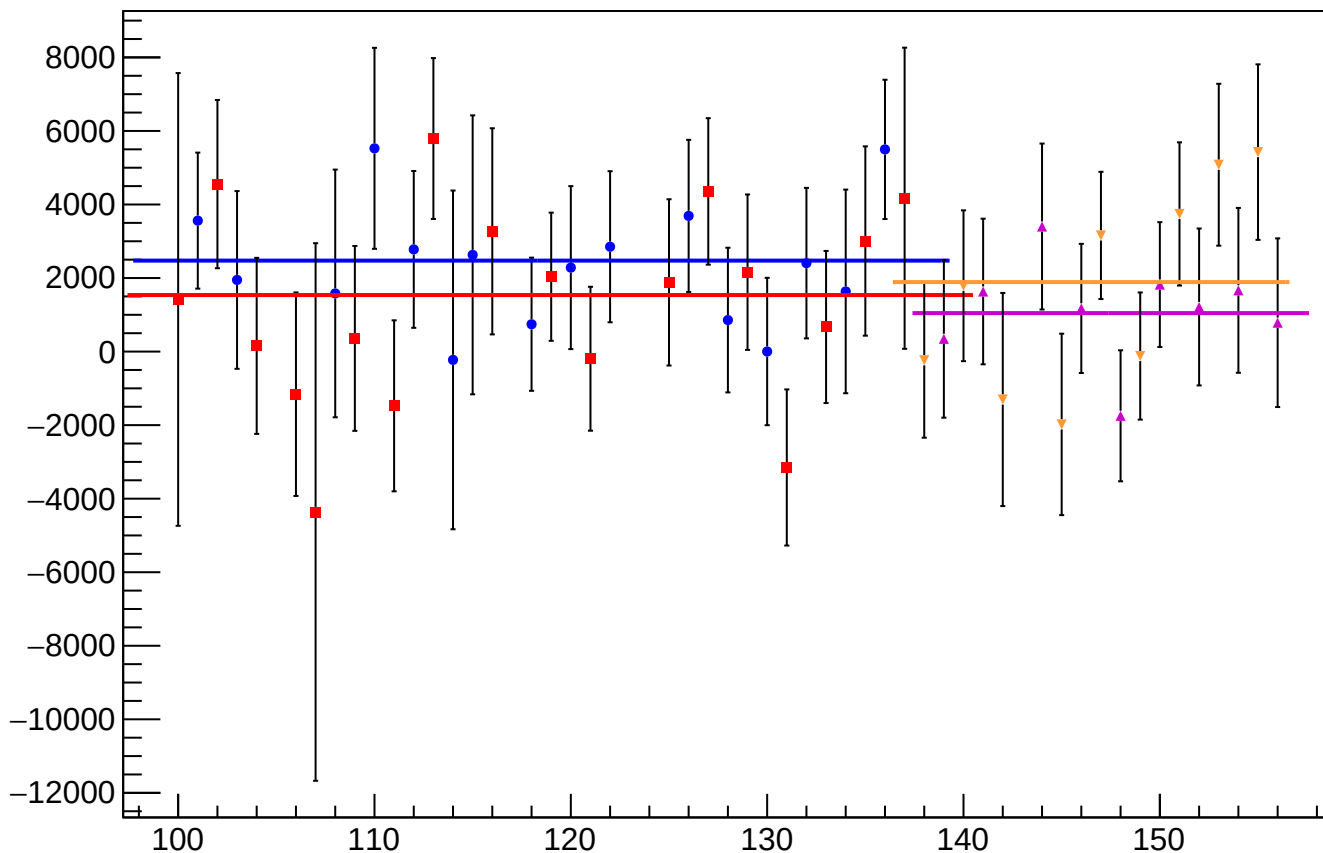
Right: 904.890 $\pm$ 0.175 χ^2 /NDF: 2419467.8/33

In: 1073.879 $\pm$ 0.207 χ^2 /NDF: 2968382.8/24

Out: 1054.170 $\pm$ 0.208 χ^2 /NDF: 3023252.4/26

All: 1064.110 $\pm$ 0.147 χ^2 /NDF: 5996143.1/51

asym_usl_mean vs Slug, Sign Corrected



Right In: 2474.066 $\pm$ 562.796 χ^2 /NDF: 8.2/15

Left Out: 1889.890 $\pm$ 696.625 χ^2 /NDF:11.8/8

Right Out: 1537.435 $\pm$ 563.556 χ^2 /NDF: 18.5/17

Left In: 1046.615 $\pm$ 664.603 χ^2 /NDF:4.1/8

Left: 1448.426 $\pm$ 480.868 χ^2 /NDF: 16.6/17

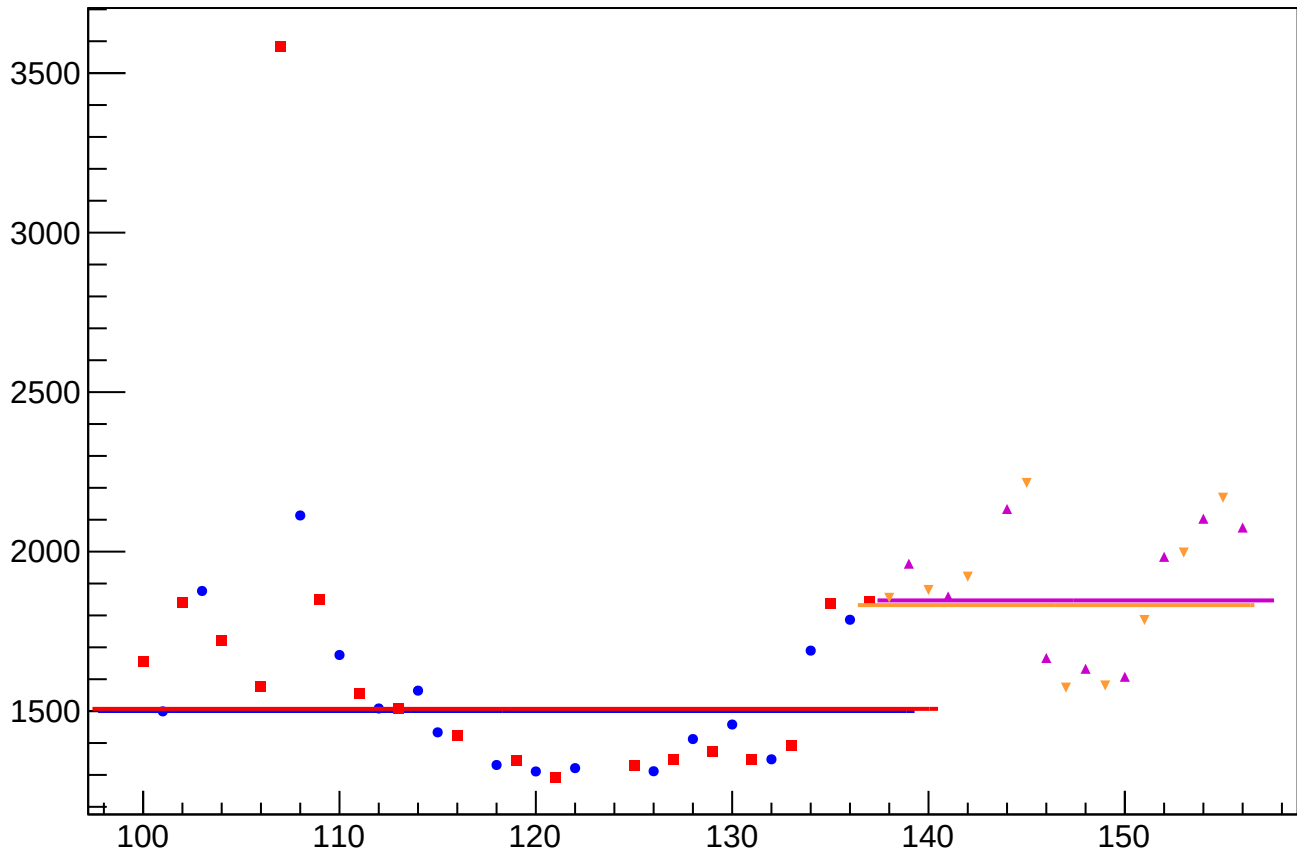
Right: 2006.383 $\pm$ 398.225 χ^2 /NDF: 28.1/33

In: 1877.932 $\pm$ 429.491 χ^2 /NDF:15.0/24

Out: 1676.856 $\pm$ 438.138 χ^2 /NDF:30.5/26

All: 1779.398 $\pm$ 306.707 χ^2 /NDF: 45.5/51

asym_usl_rms vs Slug, Sign Corrected



Right In: 1500.377+/-0.398 χ^2/NDF : 258792.8/15

Left Out: 1832.313+/-0.493 χ^2/NDF : 190707.6/8

Right Out: 1507.098+/-0.398 χ^2/NDF : 401227.7/17

Left In: 1847.032+/-0.470 χ^2/NDF : 182093.1/8

Left: 1840.019+/-0.340 χ^2/NDF : 373268.1/17

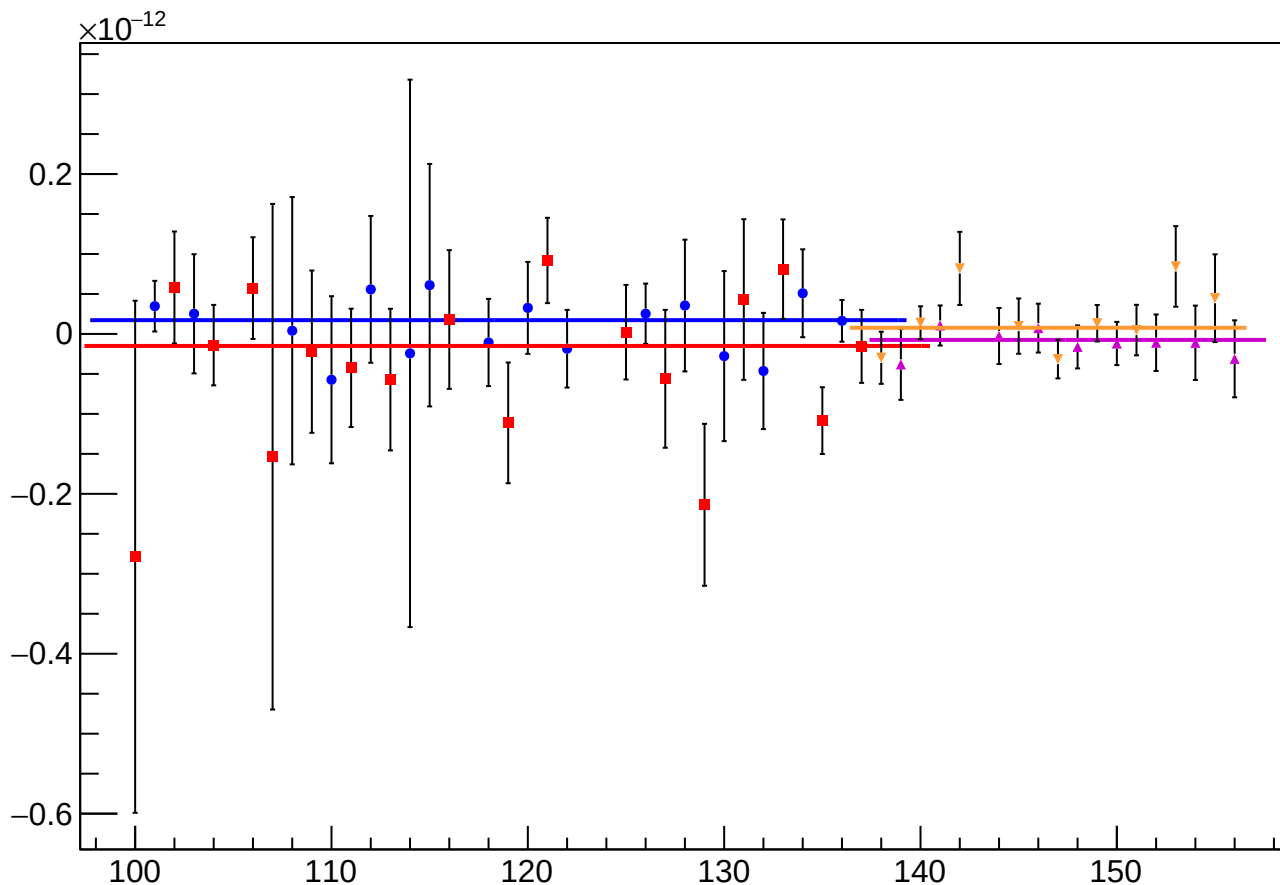
Right: 1503.733+/-0.282 χ^2/NDF : 660162.8/33

In: 1645.148+/-0.304 χ^2/NDF : 757774.0/24

Out: 1635.743+/-0.310 χ^2/NDF : 855398.7/26

All: 1640.539+/-0.217 χ^2/NDF : 1613642.6/51

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 : 9.5/8

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/17

Left In: -0.000+/-0.000 χ^2/NDF : 1.6/8

Left: 0.000+/-0.000 χ^2/NDF : 12.2/17

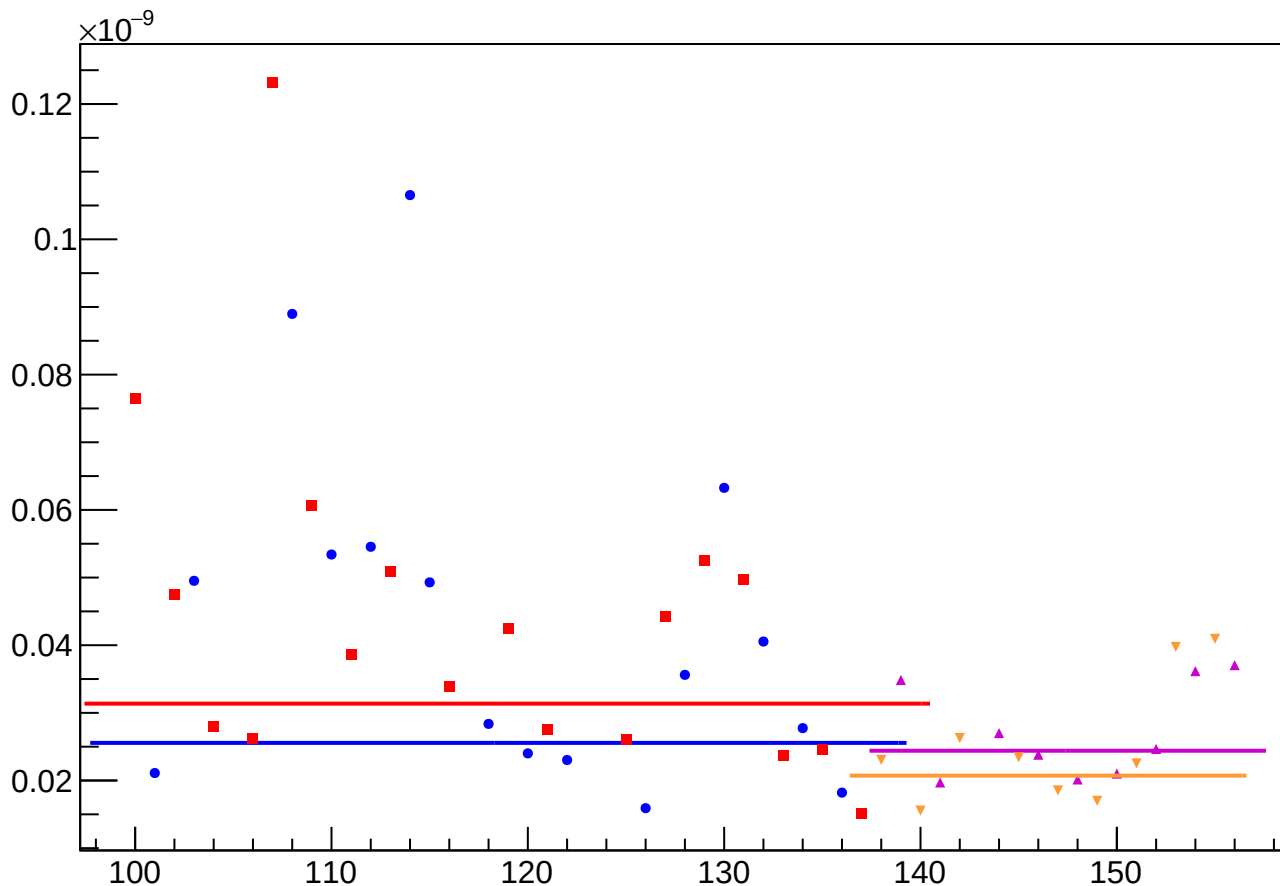
Right: 0.000+/-0.000 χ^2/NDF : 27.0/33

In: 0.000+/-0.000 χ^2/NDF : 7.1/24

Out: 0.000+/-0.000 χ^2/NDF : 32.3/26

All: 0.000+/-0.000 χ^2/NDF : 39.3/51

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 : 810558.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1228078.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 540170.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1474545.4/17

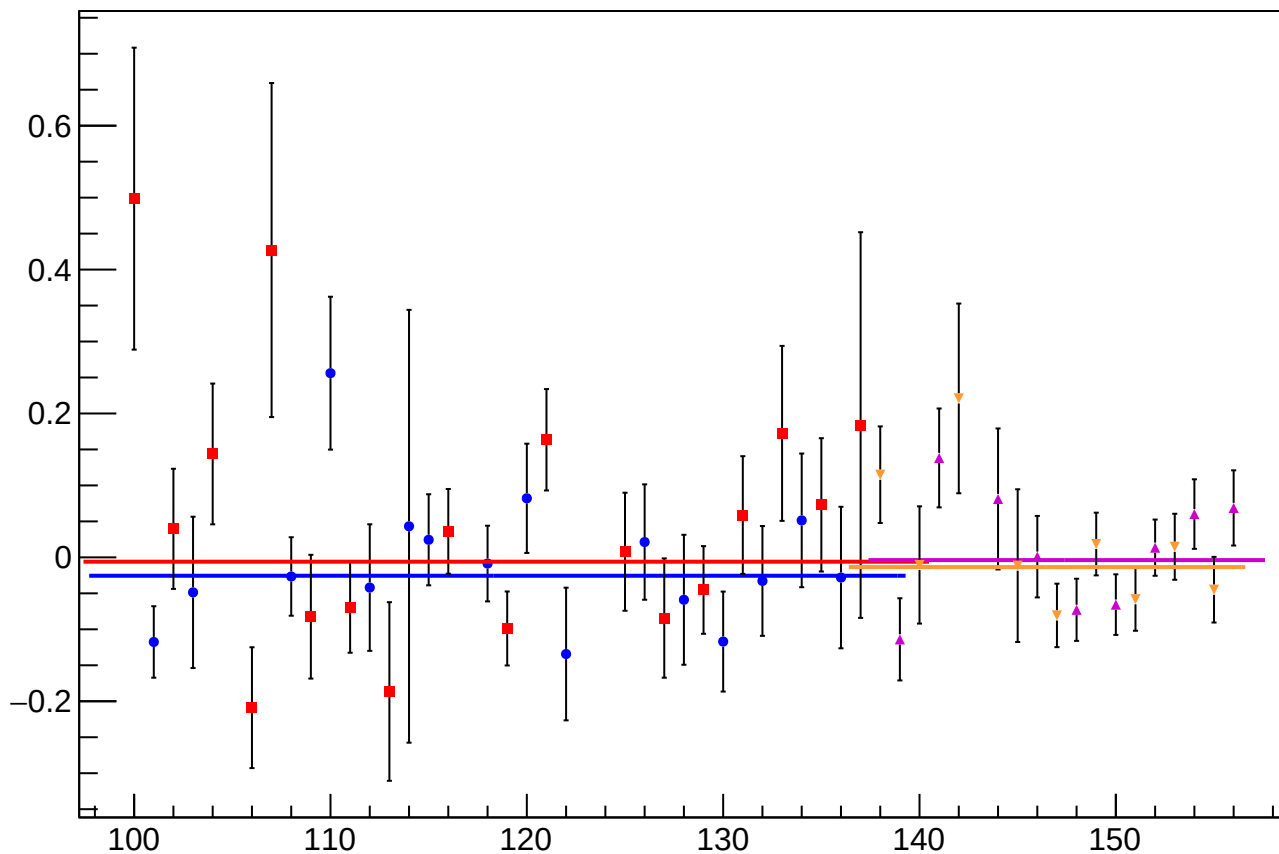
Right: 0.000+/-0.000 χ^2/NDF : 3088169.6/33

In: 0.000+/-0.000 χ^2/NDF : 2256907.3/24

Out: 0.000+/-0.000 χ^2/NDF : 2669174.6/26

All: 0.000+/-0.000 χ^2/NDF : 4945050.7/51

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: -0.013 ± 0.018 χ^2/NDF : 11.6/8

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.004 ± 0.017 χ^2/NDF : 17.3/8

Left: -0.008 ± 0.012 χ^2/NDF : 29.1/17

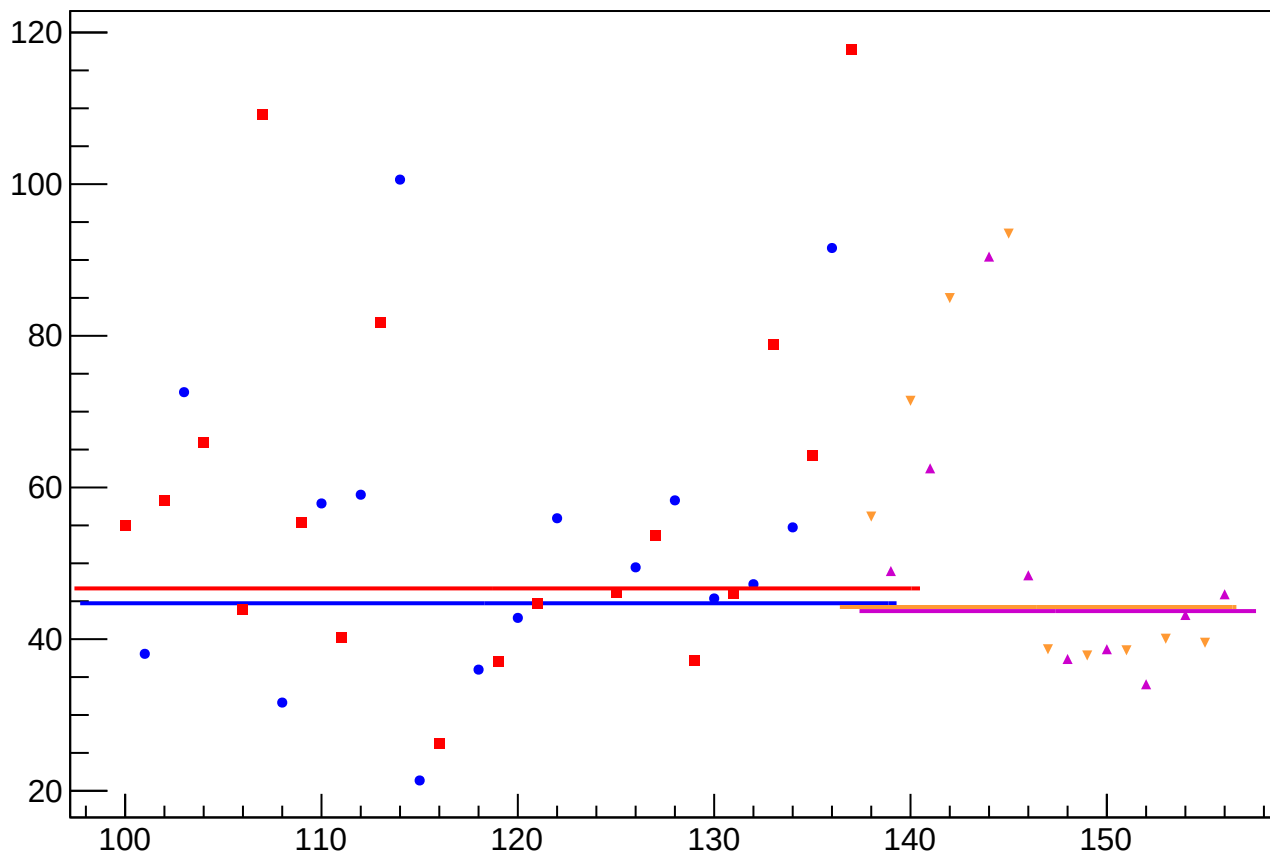
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.014 ± 0.013 χ^2/NDF : 35.7/24

Out: -0.010 ± 0.013 χ^2/NDF : 48.2/26

All: -0.012 ± 0.009 χ^2/NDF : 83.9/51

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: 44.240+/-0.013 χ^2/NDF : 1053907.7/8

Right Out: 46.691+/-0.014 χ^2/NDF : 1195464.6/17

Left In: 43.701+/-0.012 χ^2/NDF : 833267.2/8

Left: 43.952+/-0.009 χ^2/NDF : 1888118.1/17

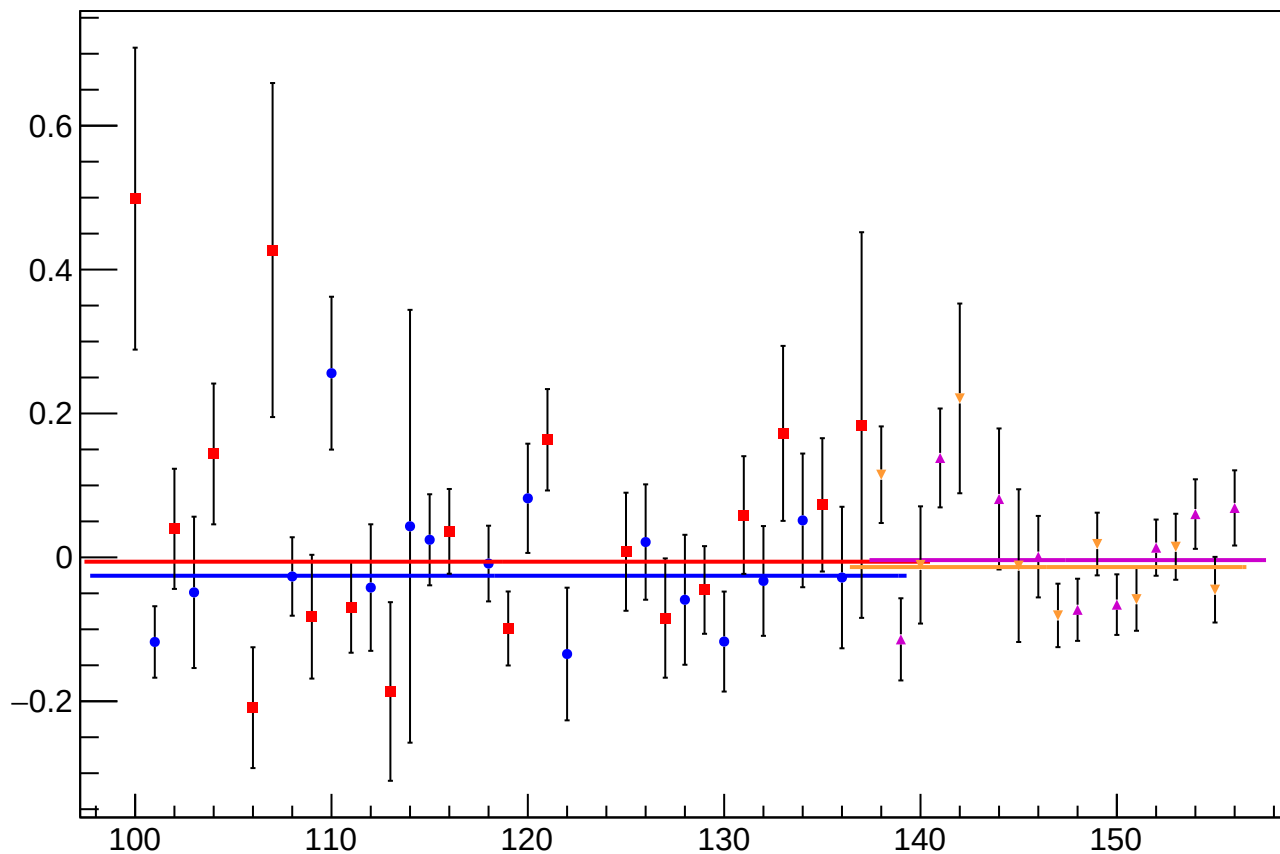
Right: 45.680+/-0.010 χ^2/NDF : 2540529.3/33

In: 44.164+/-0.009 χ^2/NDF : 2171144.4/24

Out: 45.384+/-0.009 χ^2/NDF : 2266397.1/26

All: 44.742+/-0.006 χ^2/NDF : 4446462.2/51

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: -0.013 ± 0.018 χ^2/NDF : 11.6/8

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.004 ± 0.017 χ^2/NDF : 17.3/8

Left: -0.008 ± 0.012 χ^2/NDF : 29.1/17

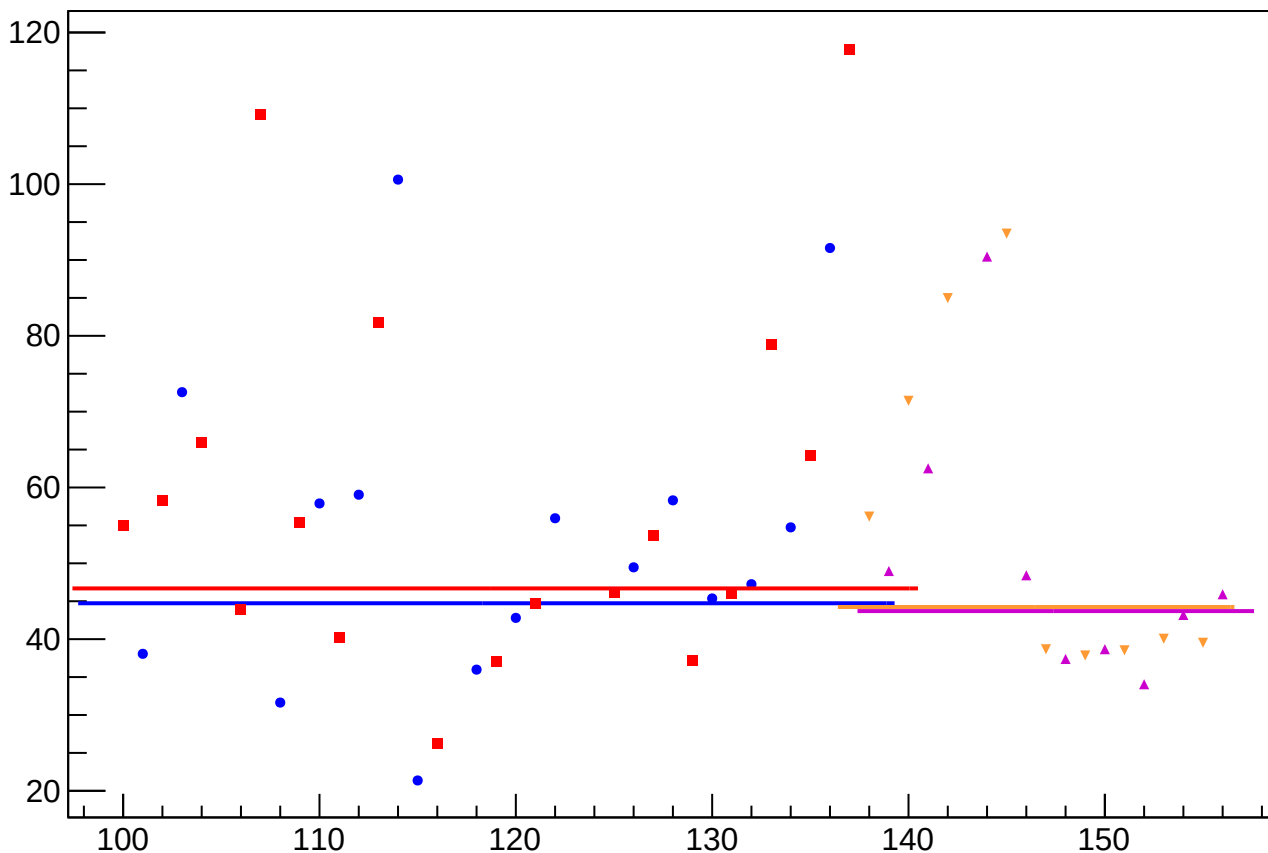
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.014 ± 0.013 χ^2/NDF : 35.7/24

Out: -0.010 ± 0.013 χ^2/NDF : 48.2/26

All: -0.012 ± 0.009 χ^2/NDF : 83.9/51

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: 44.240+/-0.013 χ^2/NDF : 1053907.7/8

Right Out: 46.691+/-0.014 χ^2/NDF : 1195464.6/17

Left In: 43.701+/-0.012 χ^2/NDF : 833267.2/8

Left: 43.952+/-0.009 χ^2/NDF : 1888118.1/17

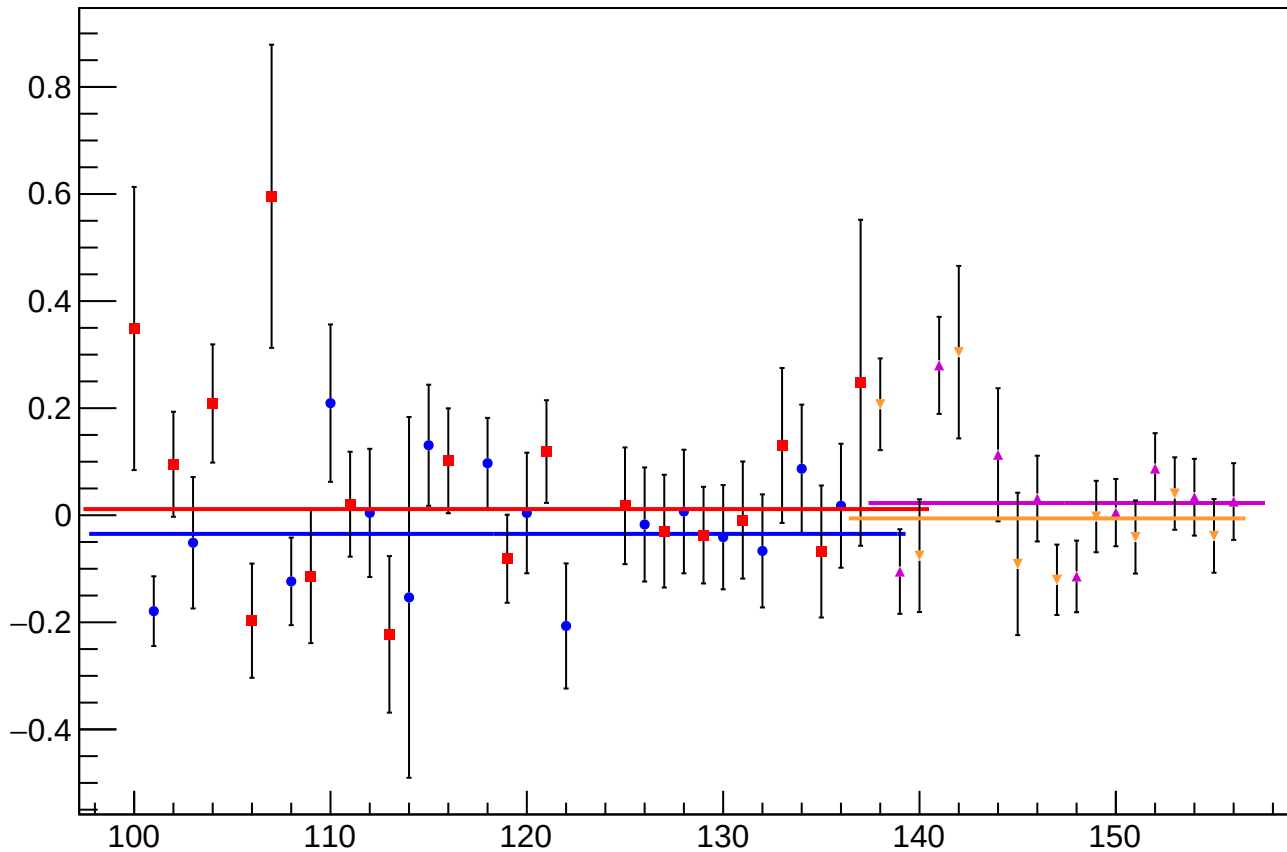
Right: 45.680+/-0.010 χ^2/NDF : 2540529.3/33

In: 44.164+/-0.009 χ^2/NDF : 2171144.4/24

Out: 45.384+/-0.009 χ^2/NDF : 2266397.1/26

All: 44.742+/-0.006 χ^2/NDF : 4446462.2/51

asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.026 χ^2/NDF : 17.4/15

Left Out: -0.006 ± 0.027 χ^2/NDF : 14.8/8

Right Out: 0.012 ± 0.027 χ^2/NDF : 22.8/17

Left In: 0.023 ± 0.025 χ^2/NDF : 16.4/8

Left: 0.009 ± 0.018 χ^2/NDF : 31.8/17

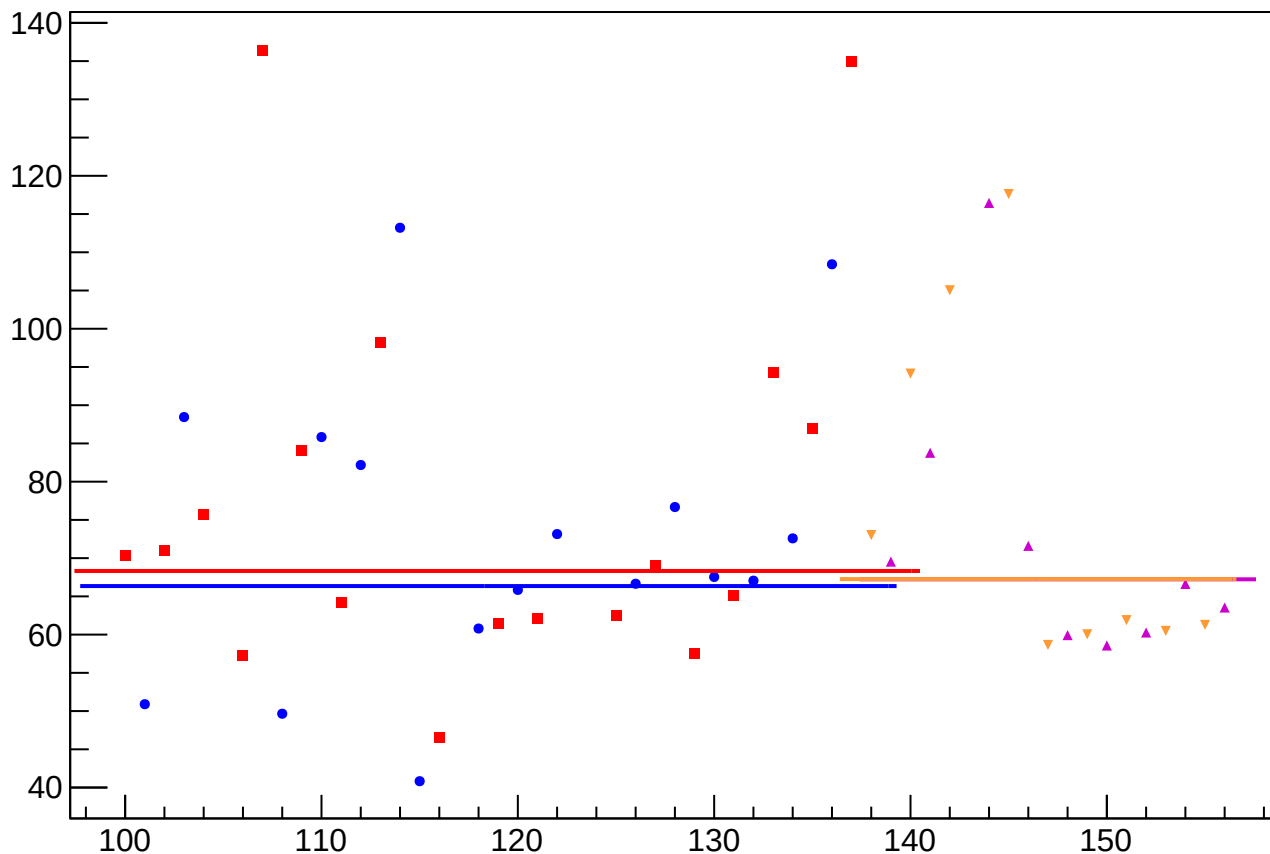
Right: -0.012 ± 0.019 χ^2/NDF : 41.7/33

In: -0.005 ± 0.018 χ^2/NDF : 36.4/24

Out: 0.003 ± 0.019 χ^2/NDF : 37.7/26

All: -0.001 ± 0.013 χ^2/NDF : 74.2/51

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: 67.261 $\pm$ 0.019 χ^2 /NDF: 641142.8/8

Right Out: 68.322 $\pm$ 0.019 χ^2 /NDF: 629670.0/17

Left In: 67.233 $\pm$ 0.018 χ^2 /NDF: 477249.3/8

Left: 67.246 $\pm$ 0.013 χ^2 /NDF: 1118393.2/17

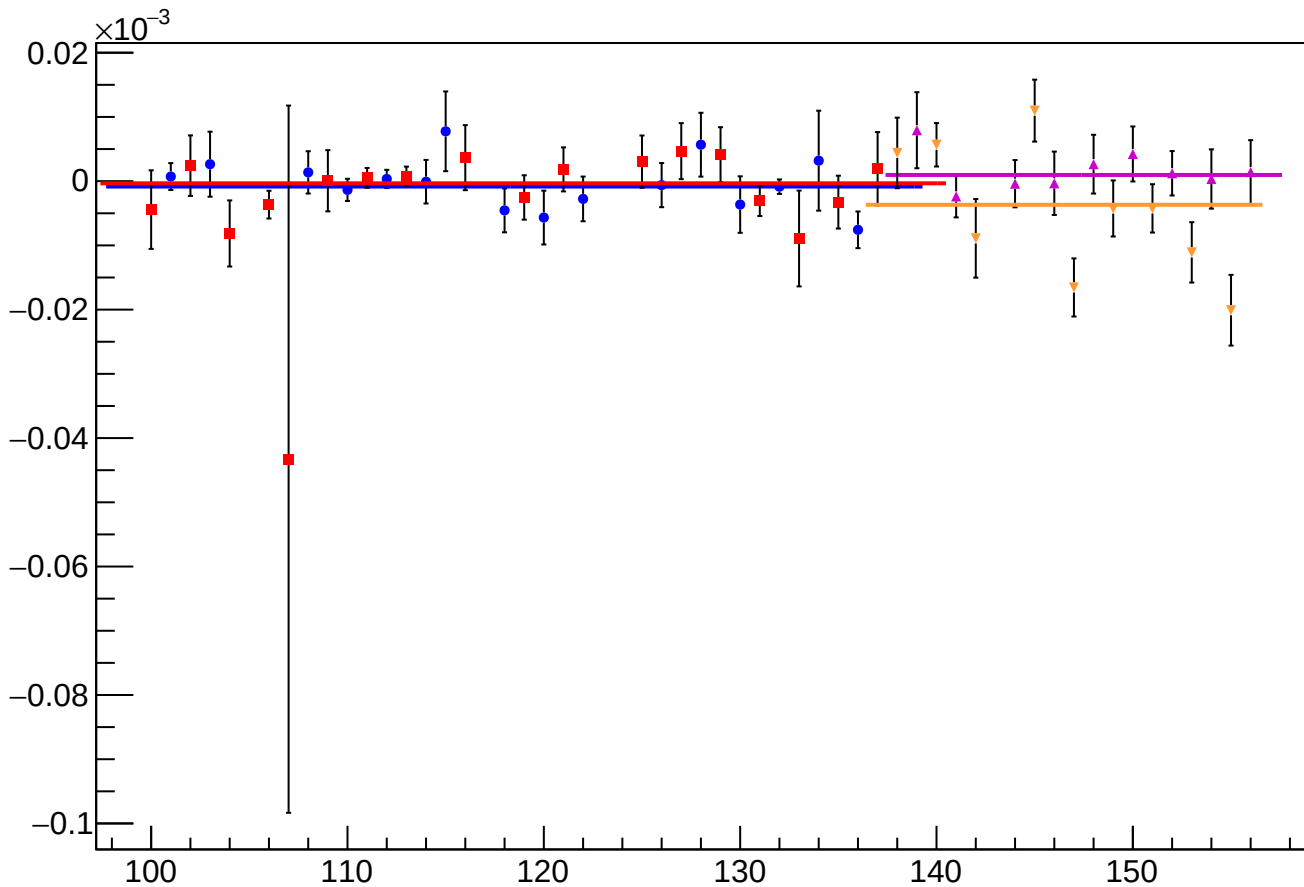
Right: 67.312 $\pm$ 0.013 χ^2 /NDF: 1407833.1/33

In: 66.812 $\pm$ 0.013 χ^2 /NDF: 1251092.1/24

Out: 67.784 $\pm$ 0.013 χ^2 /NDF: 1272391.1/26

All: 67.278 $\pm$ 0.009 χ^2 /NDF: 2526238.9/51

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:39.3/8

Right Out: -0.000+/-0.000 χ^2 /NDF: 14.8/17

Left In: 0.000+/-0.000 χ^2 /NDF:3.4/8

Left: -0.000+/-0.000 χ^2 /NDF: 47.8/17

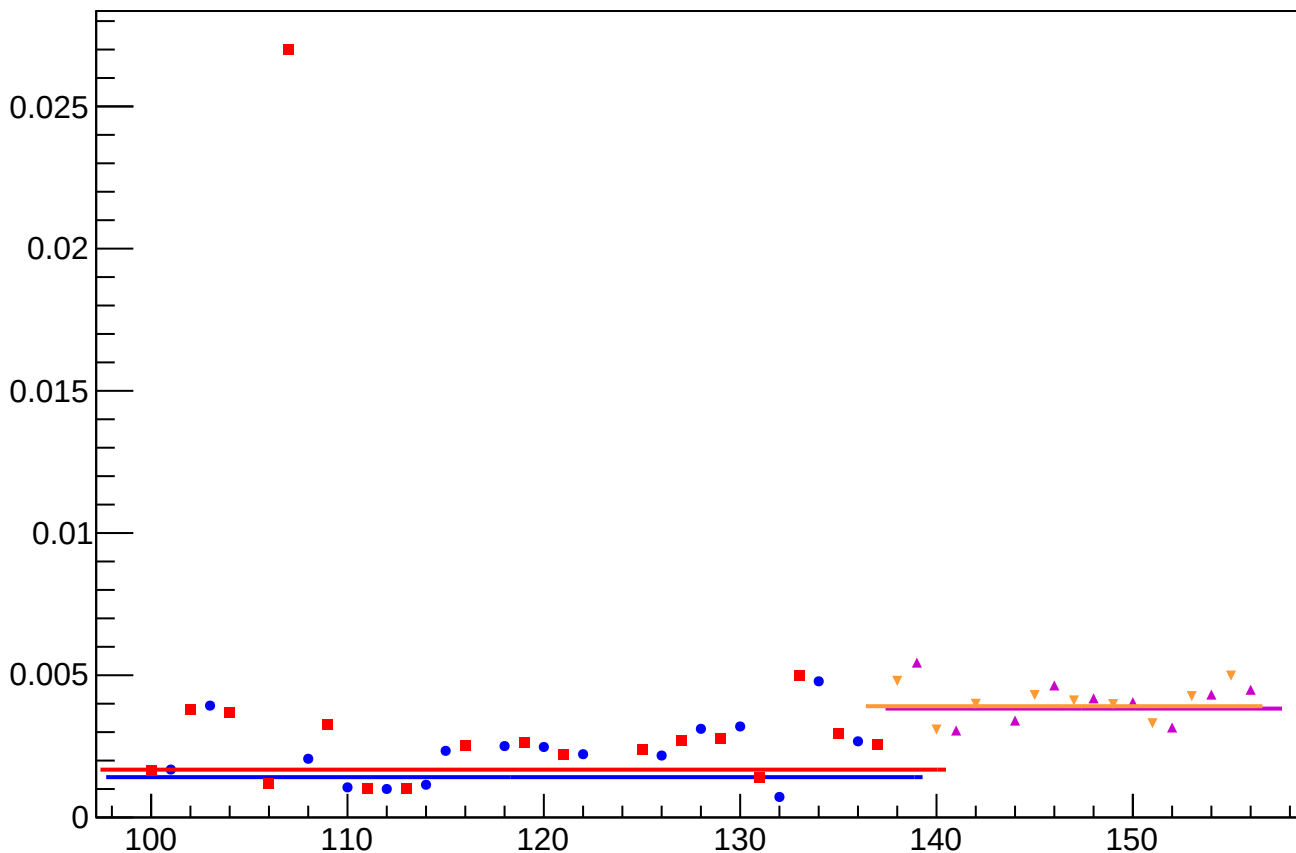
Right: -0.000+/-0.000 χ^2 /NDF: 30.1/33

In: -0.000+/-0.000 χ^2 /NDF:19.8/24

Out: -0.000+/-0.000 χ^2 /NDF:58.1/26

All: -0.000+/-0.000 χ^2 /NDF: 78.1/51

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 :327133.2/8

Right Out: 0.002+/-0.000 χ^2/NDF : 3427218.5/17

Left In: 0.004+/-0.000 χ^2/NDF :491330.2/8

Left: 0.004+/-0.000 χ^2/NDF : 821778.6/17

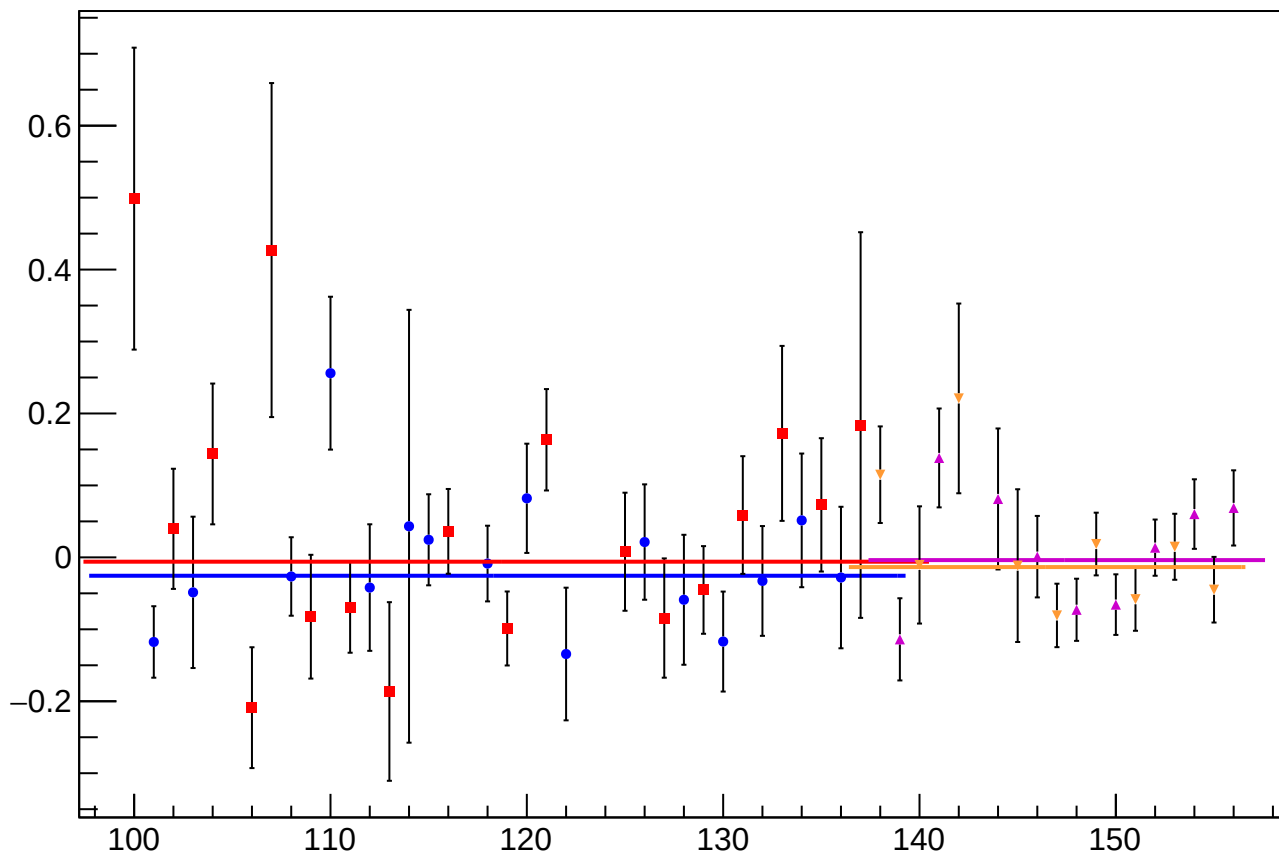
Right: 0.002+/-0.000 χ^2/NDF : 7128830.6/33

In: 0.002+/-0.000 χ^2/NDF :9010170.9/24

Out: 0.002+/-0.000 χ^2/NDF :7314684.3/26

All: 0.002+/-0.000 χ^2/NDF : 16553207.1/51

asym_usl_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 $\chi^2/\text{NDF}: 17.6/15$

Left Out: -0.013 ± 0.018 $\chi^2/\text{NDF}: 11.6/8$

Right Out: -0.006 ± 0.019 $\chi^2/\text{NDF}: 36.5/17$

Left In: -0.004 ± 0.017 $\chi^2/\text{NDF}: 17.3/8$

Left: -0.008 ± 0.012 $\chi^2/\text{NDF}: 29.1/17$

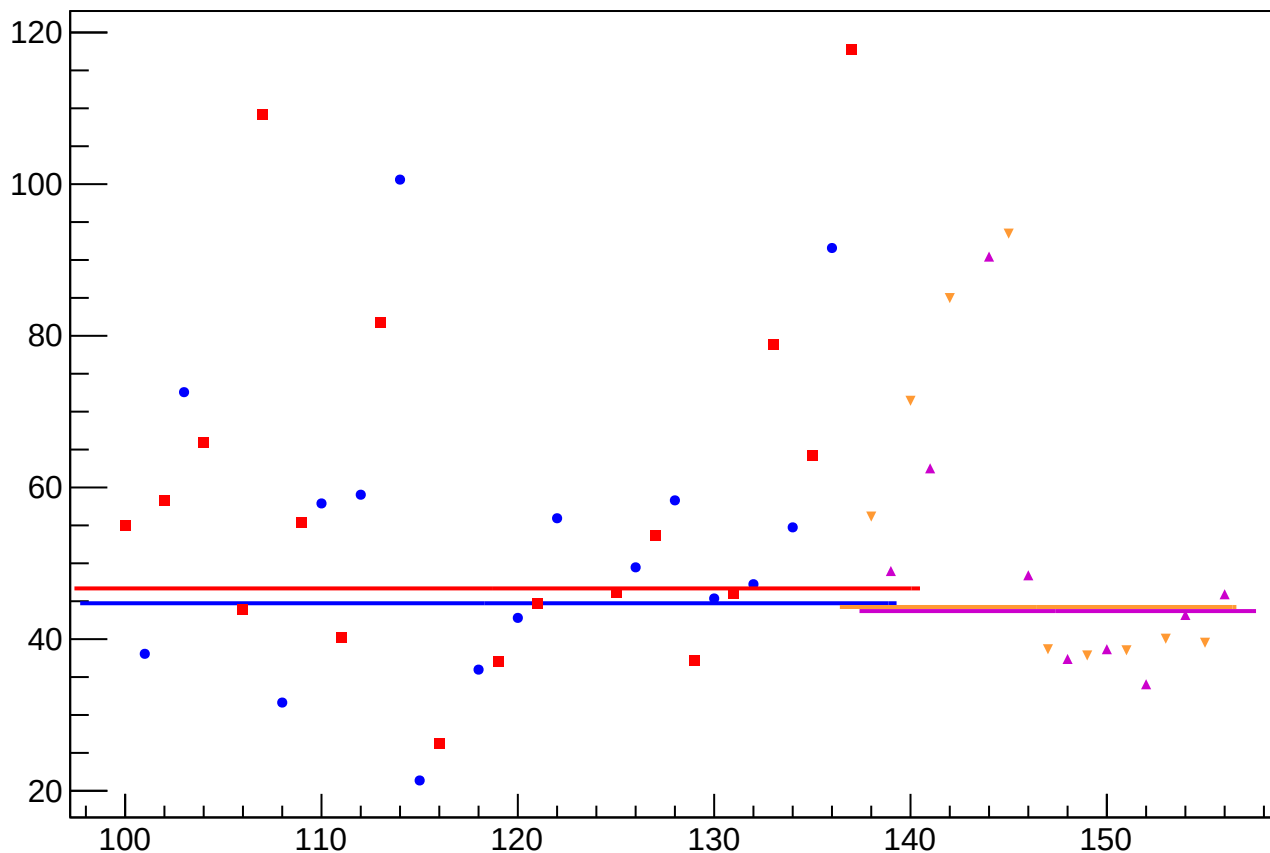
Right: -0.016 ± 0.013 $\chi^2/\text{NDF}: 54.7/33$

In: -0.014 ± 0.013 $\chi^2/\text{NDF}: 35.7/24$

Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 48.2/26$

All: -0.012 ± 0.009 $\chi^2/\text{NDF}: 83.9/51$

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: 44.240 ± 0.013 χ^2/NDF : 1053863.4/8

Right Out: 46.690 ± 0.014 χ^2/NDF : 1195504.1/17

Left In: 43.701 ± 0.012 χ^2/NDF : 833244.7/8

Left: 43.952 ± 0.009 χ^2/NDF : 1888051.5/17

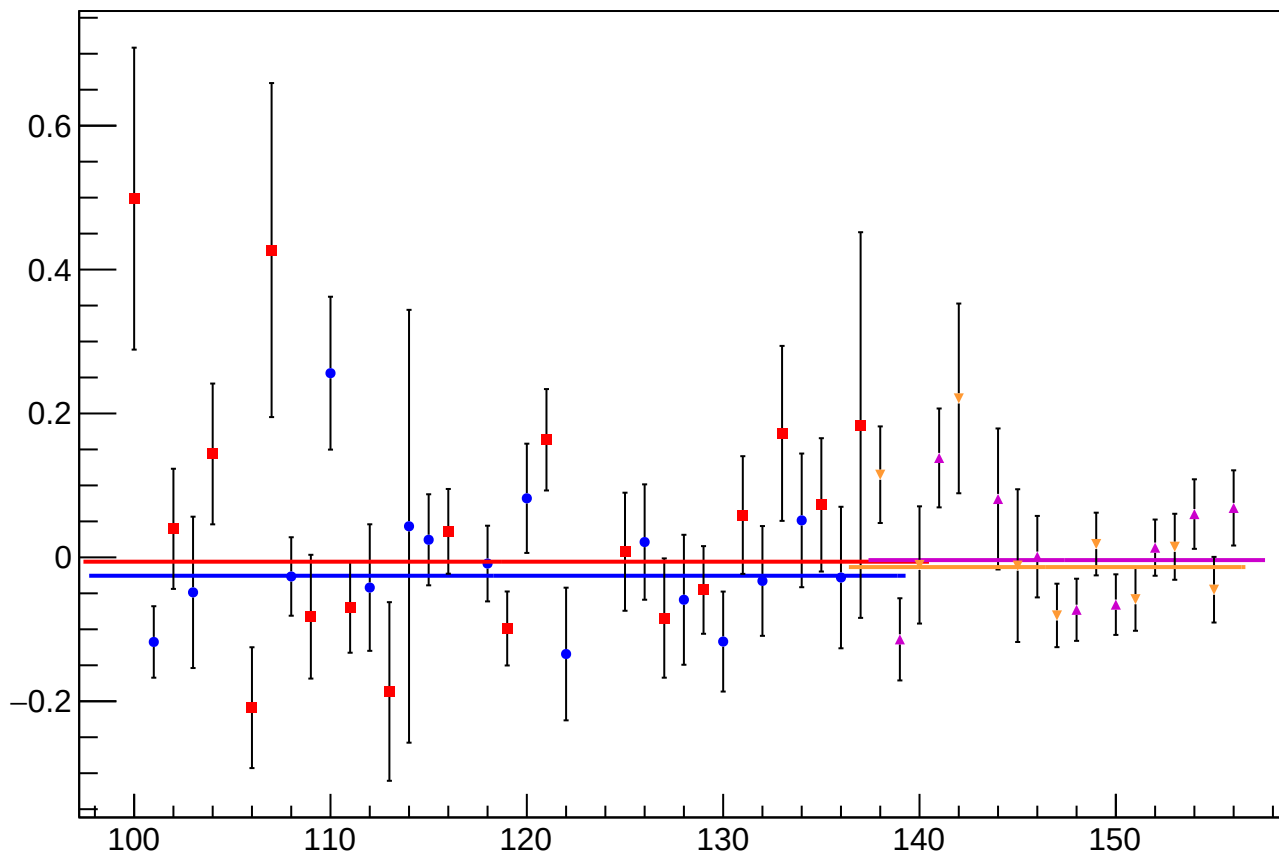
Right: 45.679 ± 0.010 χ^2/NDF : 2540631.2/33

In: 44.164 ± 0.009 χ^2/NDF : 2171175.6/24

Out: 45.384 ± 0.009 χ^2/NDF : 2266373.9/26

All: 44.742 ± 0.006 χ^2/NDF : 4446470.5/51

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: -0.013 ± 0.018 χ^2/NDF : 11.6/8

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.004 ± 0.017 χ^2/NDF : 17.3/8

Left: -0.008 ± 0.012 χ^2/NDF : 29.1/17

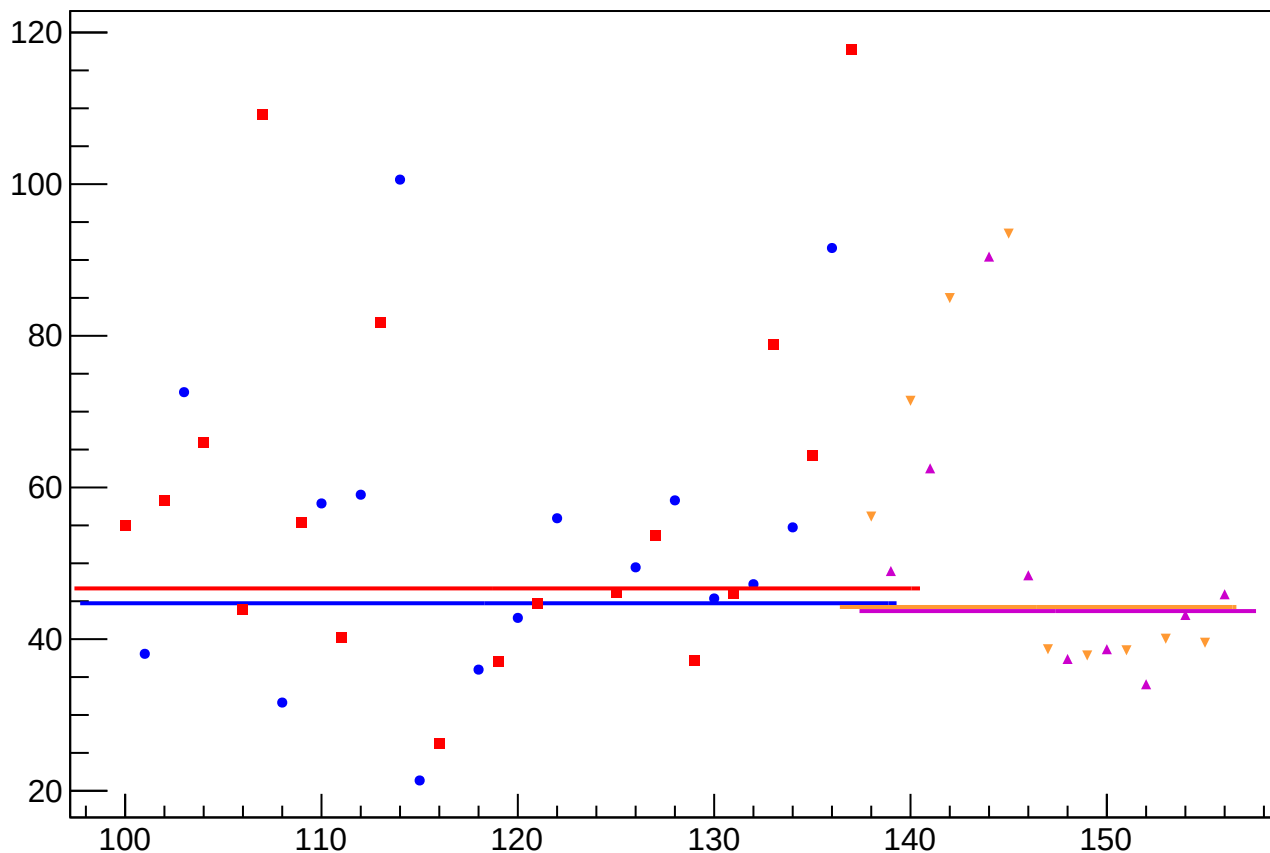
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.014 ± 0.013 χ^2/NDF : 35.7/24

Out: -0.010 ± 0.013 χ^2/NDF : 48.2/26

All: -0.012 ± 0.009 χ^2/NDF : 83.9/51

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.732 $\pm$ 0.013 χ^2 /NDF: 1334604.0/15

Left Out: 44.240 $\pm$ 0.013 χ^2 /NDF:1053863.4/8

Right Out: 46.690 $\pm$ 0.014 χ^2 /NDF: 1195504.1/17

Left In: 43.701 $\pm$ 0.012 χ^2 /NDF:833244.7/8

Left: 43.952 $\pm$ 0.009 χ^2 /NDF: 1888051.5/17

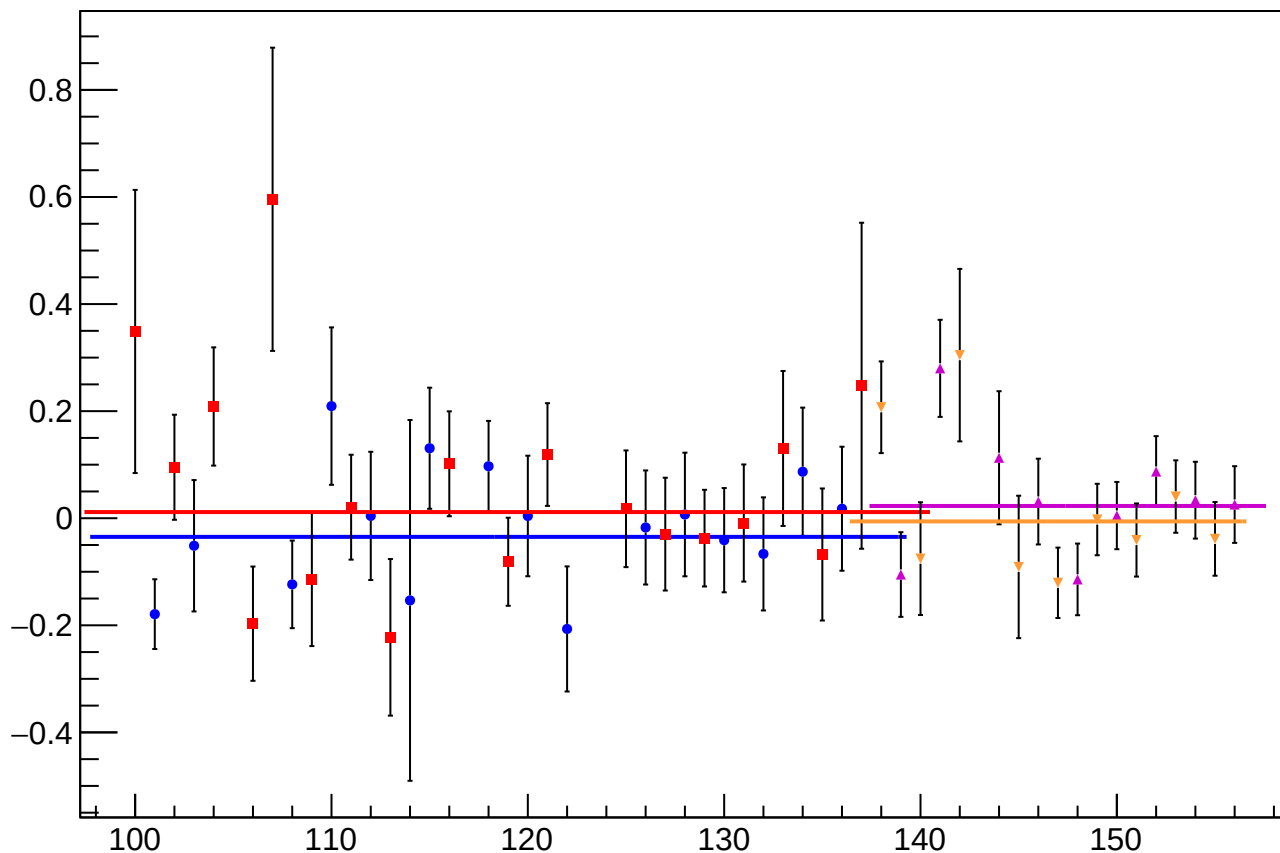
Right: 45.679 $\pm$ 0.010 χ^2 /NDF: 2540631.2/33

In: 44.164 $\pm$ 0.009 χ^2 /NDF:2171175.6/24

Out: 45.384 $\pm$ 0.009 χ^2 /NDF:2266373.9/26

All: 44.742 $\pm$ 0.006 χ^2 /NDF: 4446470.5/51

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: -0.006 ± 0.027 $\chi^2/\text{NDF}: 14.8/8$

Right Out: 0.012 ± 0.027 $\chi^2/\text{NDF}: 22.8/17$

Left In: 0.023 ± 0.025 $\chi^2/\text{NDF}: 16.4/8$

Left: 0.009 ± 0.018 $\chi^2/\text{NDF}: 31.8/17$

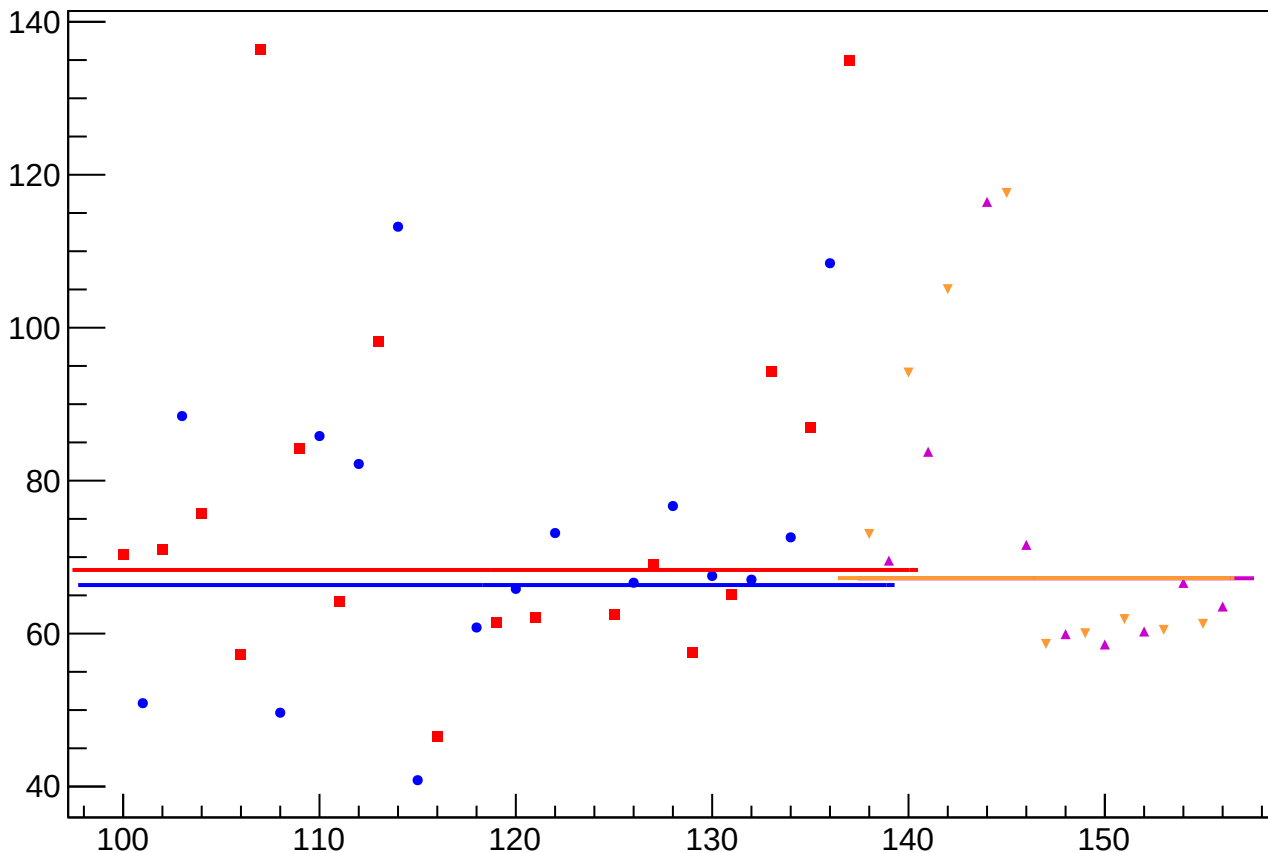
Right: -0.012 ± 0.019 $\chi^2/\text{NDF}: 41.7/33$

In: -0.005 ± 0.018 $\chi^2/\text{NDF}: 36.4/24$

Out: 0.003 ± 0.019 $\chi^2/\text{NDF}: 37.7/26$

All: -0.001 ± 0.013 $\chi^2/\text{NDF}: 74.2/51$

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: 67.261 $\pm$ 0.019 χ^2 /NDF: 641128.0/8

Right Out: 68.321 $\pm$ 0.019 χ^2 /NDF: 629665.7/17

Left In: 67.233 $\pm$ 0.018 χ^2 /NDF: 477239.3/8

Left: 67.246 $\pm$ 0.013 χ^2 /NDF: 1118368.4/17

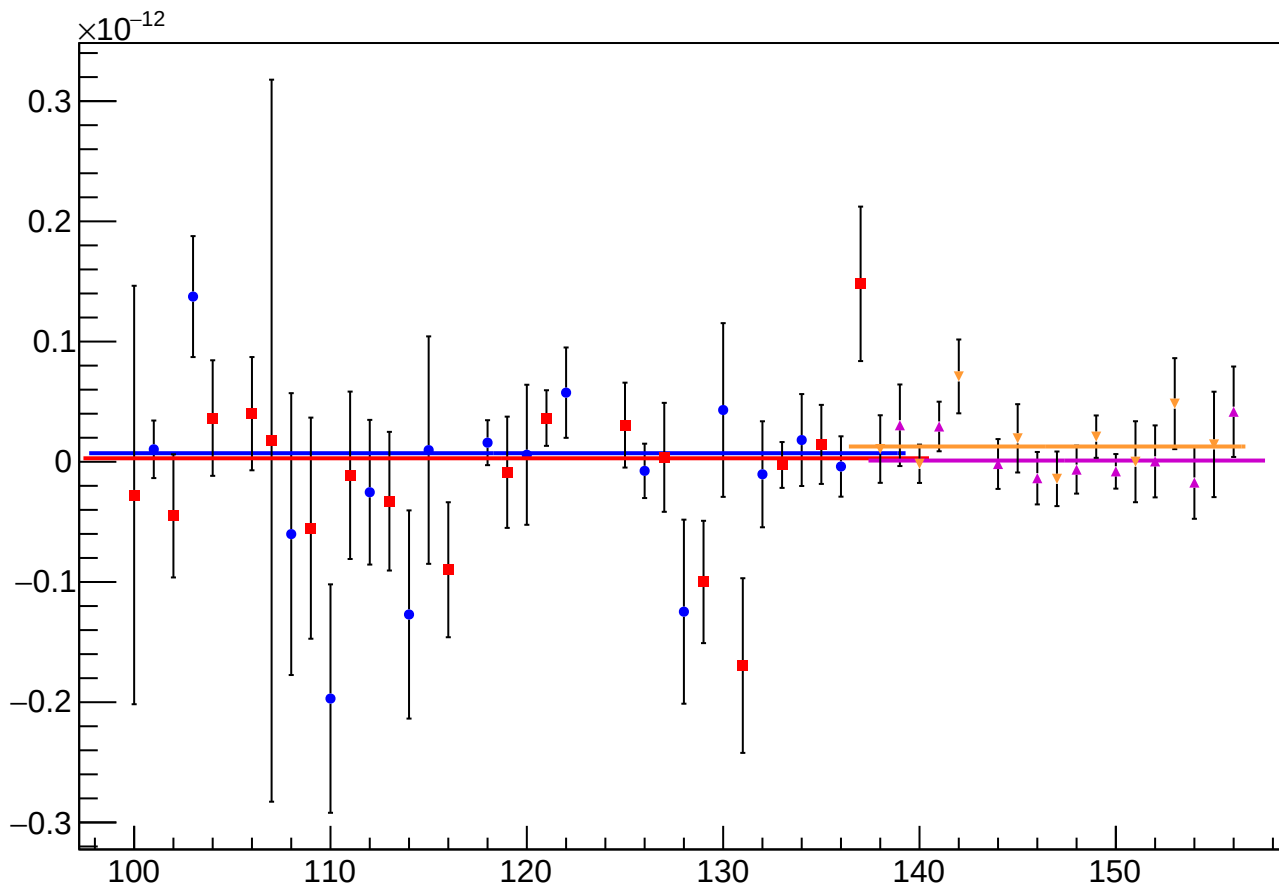
Right: 67.311 $\pm$ 0.013 χ^2 /NDF: 1407834.9/33

In: 66.812 $\pm$ 0.013 χ^2 /NDF: 1251091.1/24

Out: 67.784 $\pm$ 0.013 χ^2 /NDF: 1272369.4/26

All: 67.278 $\pm$ 0.009 χ^2 /NDF: 2526215.6/51

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 : 7.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 23.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 5.2/8

Left: 0.000+/-0.000 χ^2/NDF : 13.4/17

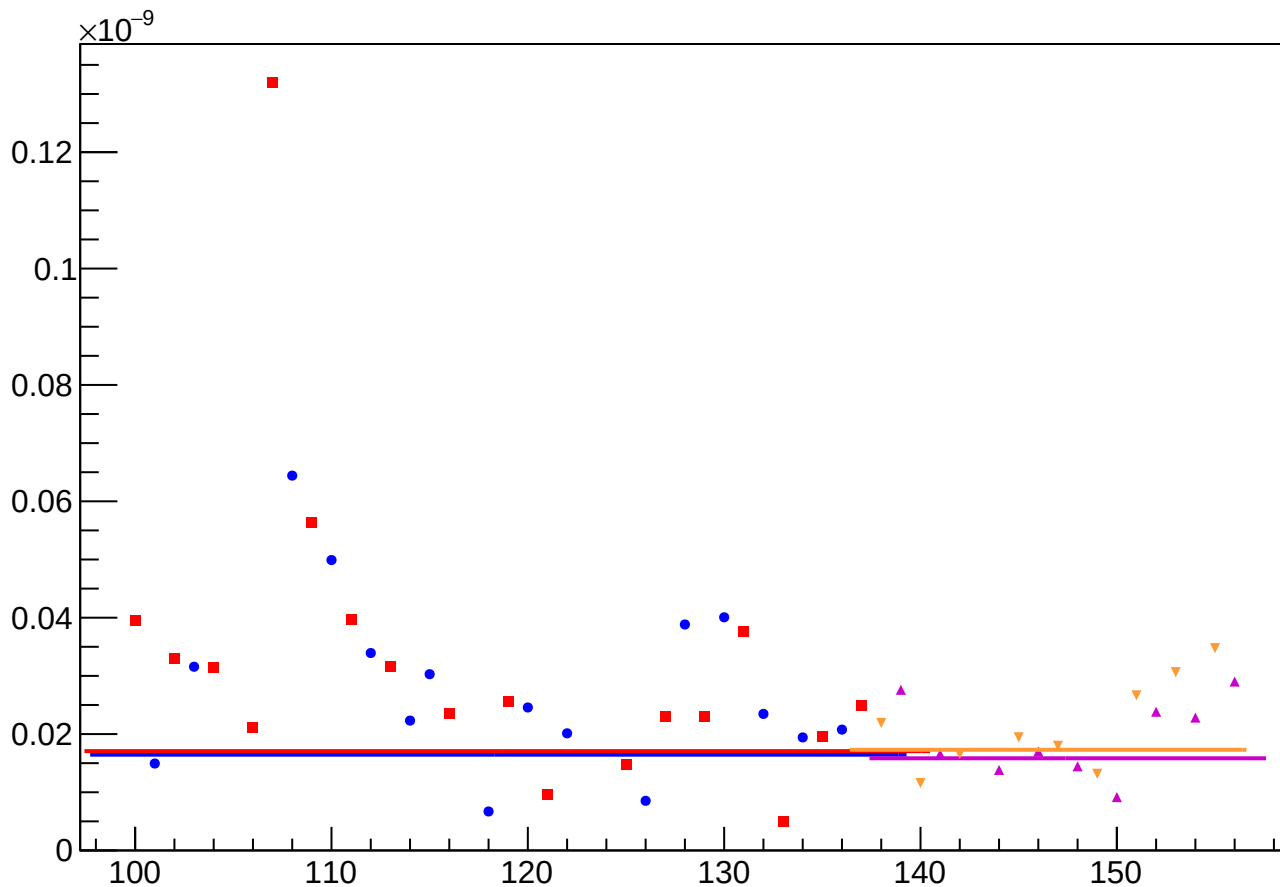
Right: 0.000+/-0.000 χ^2/NDF : 43.9/33

In: 0.000+/-0.000 χ^2/NDF : 25.9/24

Out: 0.000+/-0.000 χ^2/NDF : 31.1/26

All: 0.000+/-0.000 χ^2/NDF : 57.3/51

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 :1153658.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2791354.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1202593.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2390806.2/17

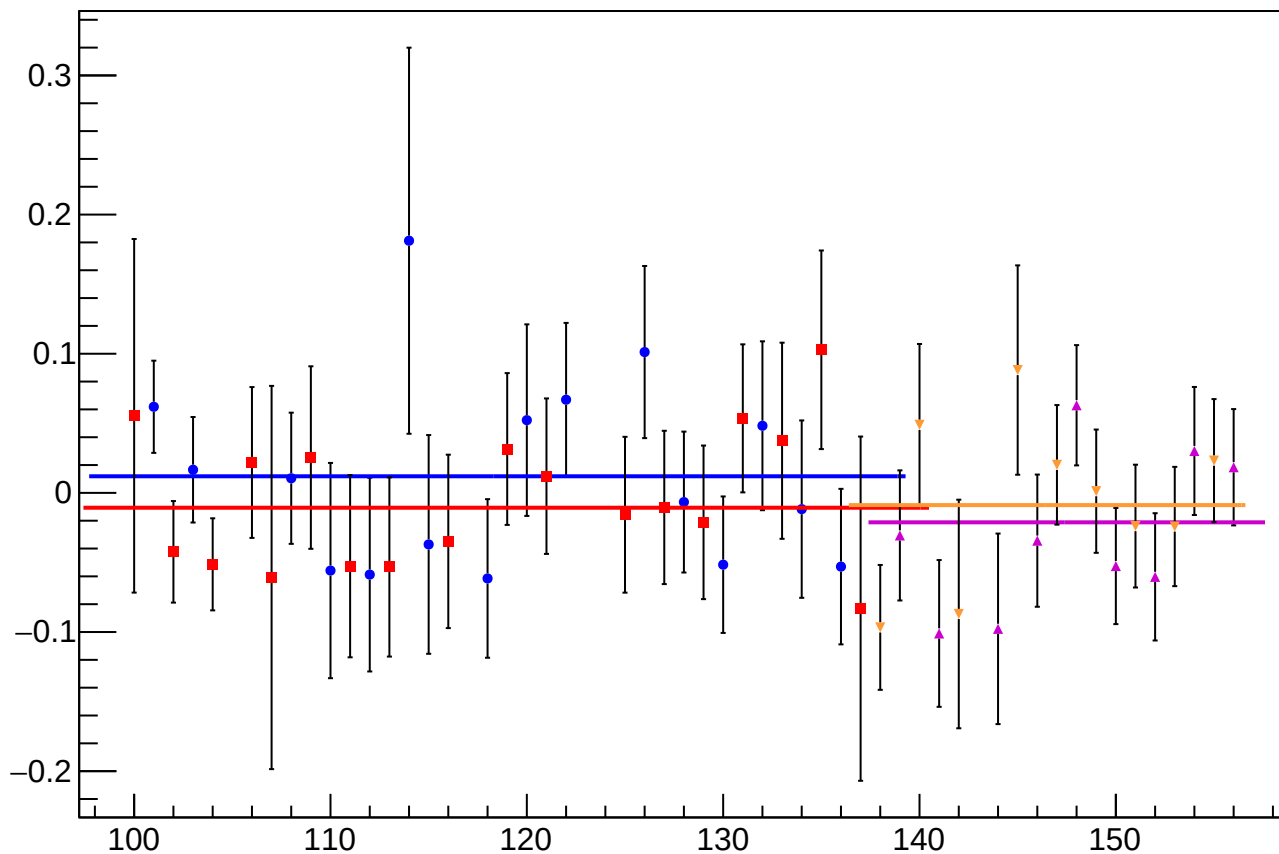
Right: 0.000+/-0.000 χ^2/NDF : 5141308.5/33

In: 0.000+/-0.000 χ^2/NDF :3554007.1/24

Out: 0.000+/-0.000 χ^2/NDF :3945666.4/26

All: 0.000+/-0.000 χ^2/NDF : 7533722.5/51

asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.014 $\chi^2/\text{NDF}: 14.7/15$

Left Out: -0.009 ± 0.016 $\chi^2/\text{NDF}: 8.7/8$

Right Out: -0.011 ± 0.013 $\chi^2/\text{NDF}: 9.9/17$

Left In: -0.021 ± 0.016 $\chi^2/\text{NDF}: 10.9/8$

Left: -0.015 ± 0.011 $\chi^2/\text{NDF}: 19.9/17$

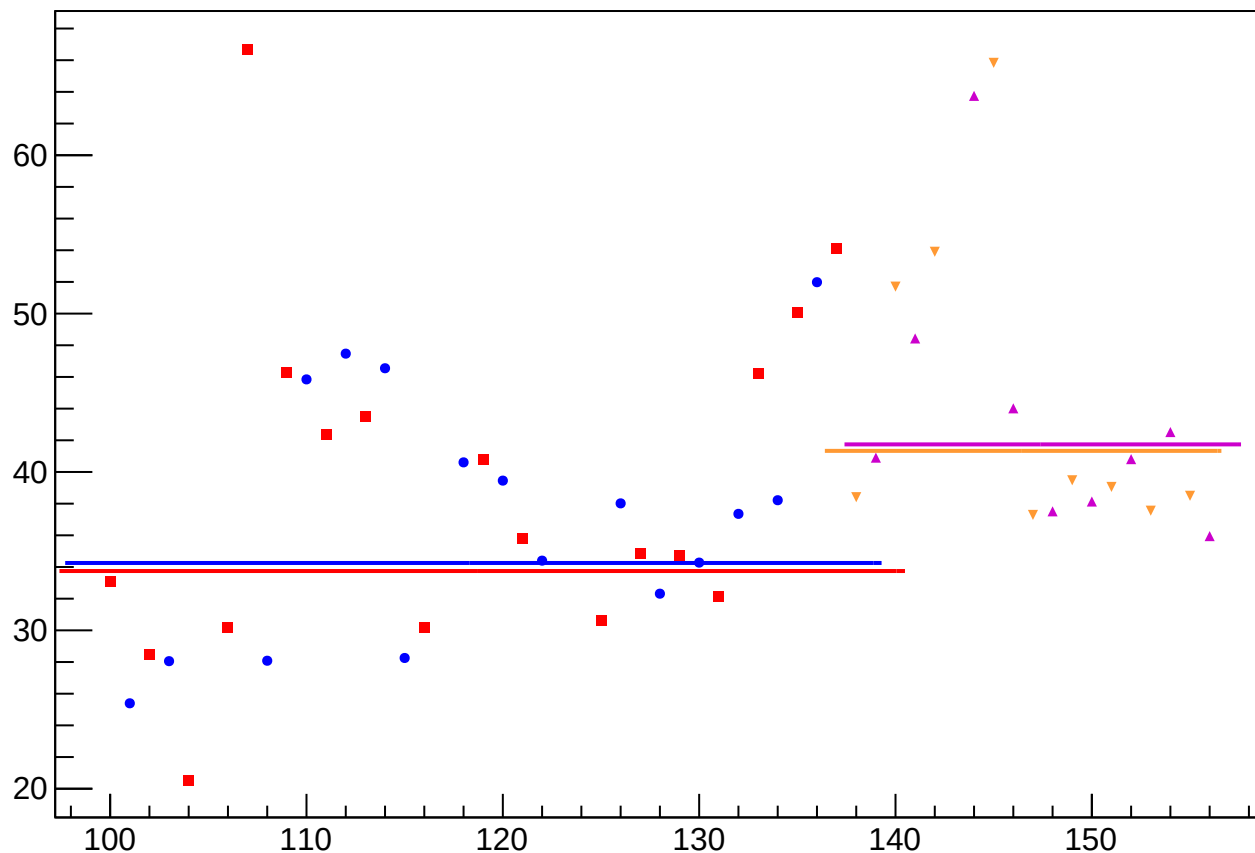
Right: 0.000 ± 0.010 $\chi^2/\text{NDF}: 26.0/33$

In: -0.002 ± 0.010 $\chi^2/\text{NDF}: 28.1/24$

Out: -0.010 ± 0.010 $\chi^2/\text{NDF}: 18.6/26$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 47.0/51$

asym_usl_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254 $\pm$ 0.010 χ^2/NDF : 636017.1/15

Left Out: 41.333 $\pm$ 0.012 χ^2/NDF : 381532.5/8

Right Out: 33.746 $\pm$ 0.010 χ^2/NDF : 911938.6/17

Left In: 41.742 $\pm$ 0.011 χ^2/NDF : 317890.6/8

Left: 41.547 $\pm$ 0.008 χ^2/NDF : 700078.3/17

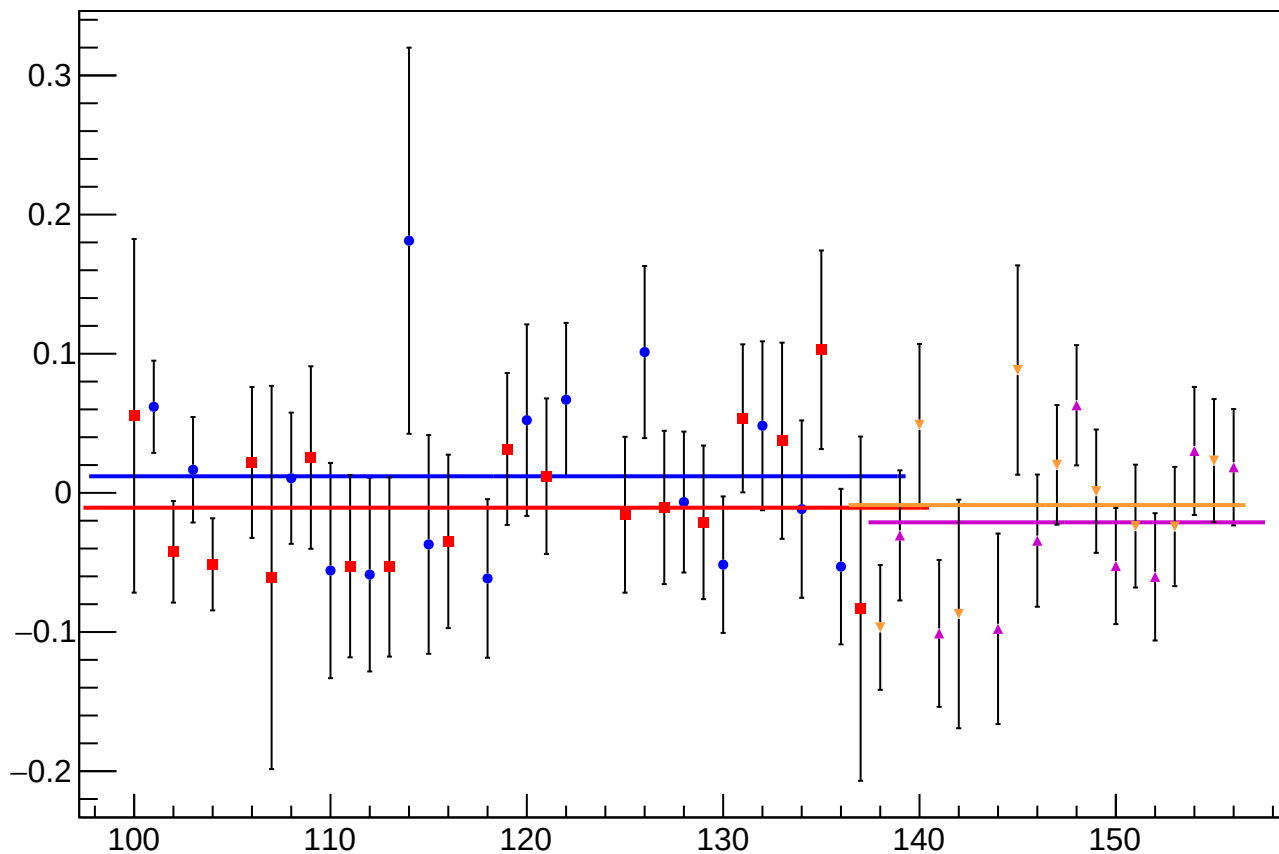
Right: 33.997 $\pm$ 0.007 χ^2/NDF : 1549368.8/33

In: 37.490 $\pm$ 0.007 χ^2/NDF : 1215329.3/24

Out: 36.805 $\pm$ 0.007 χ^2/NDF : 1550313.7/26

All: 37.151 $\pm$ 0.005 χ^2/NDF : 2770044.2/51

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: -0.009 ± 0.016 $\chi^2/\text{NDF}: 8.7/8$

Right Out: -0.011 ± 0.013 $\chi^2/\text{NDF}: 9.9/17$

Left In: -0.021 ± 0.016 $\chi^2/\text{NDF}: 10.9/8$

Left: -0.015 ± 0.011 $\chi^2/\text{NDF}: 19.9/17$

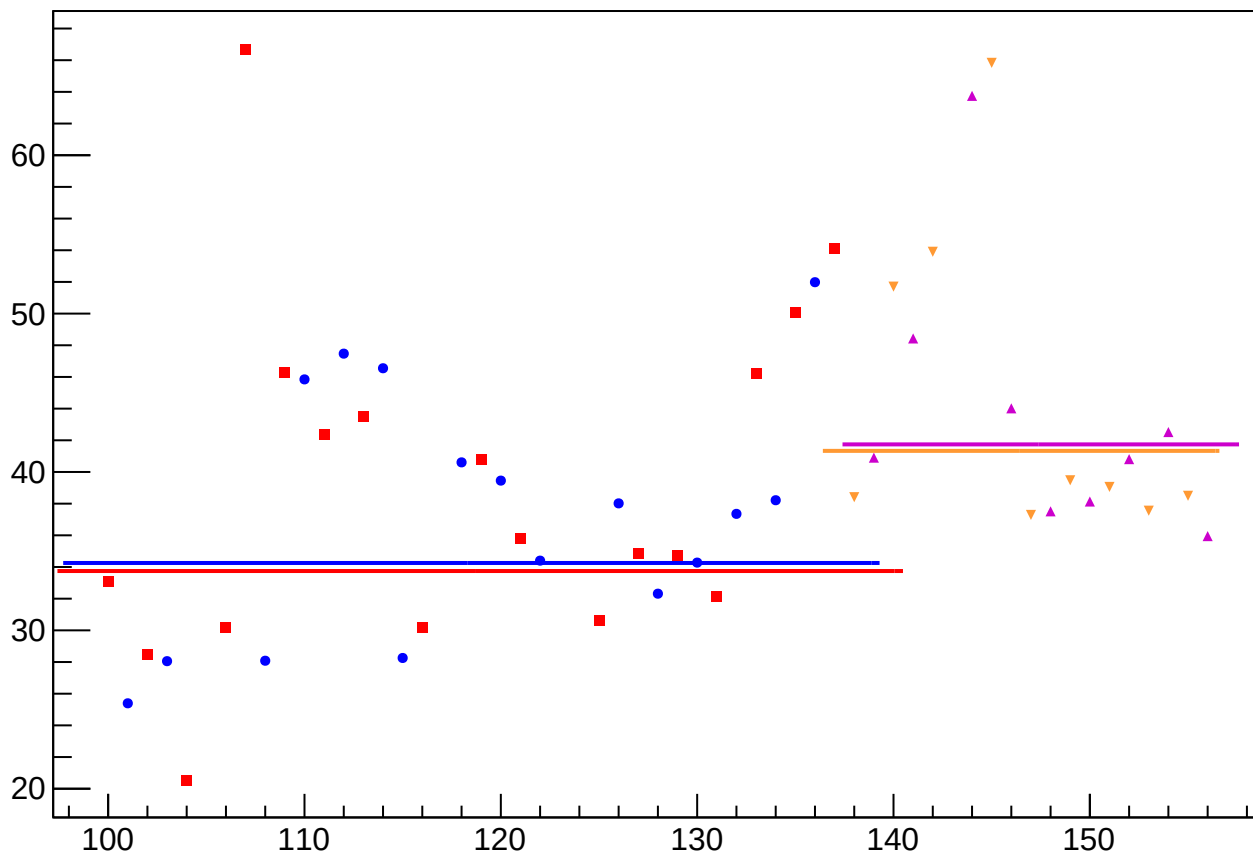
Right: 0.000 ± 0.010 $\chi^2/\text{NDF}: 26.0/33$

In: -0.002 ± 0.010 $\chi^2/\text{NDF}: 28.1/24$

Out: -0.010 ± 0.010 $\chi^2/\text{NDF}: 18.6/26$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 47.0/51$

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254 $\pm$ 0.010 χ^2 /NDF: 636017.1/15

Left Out: 41.333 $\pm$ 0.012 χ^2 /NDF: 381532.5/8

Right Out: 33.746 $\pm$ 0.010 χ^2 /NDF: 911938.6/17

Left In: 41.742 $\pm$ 0.011 χ^2 /NDF: 317890.6/8

Left: 41.547 $\pm$ 0.008 χ^2 /NDF: 700078.3/17

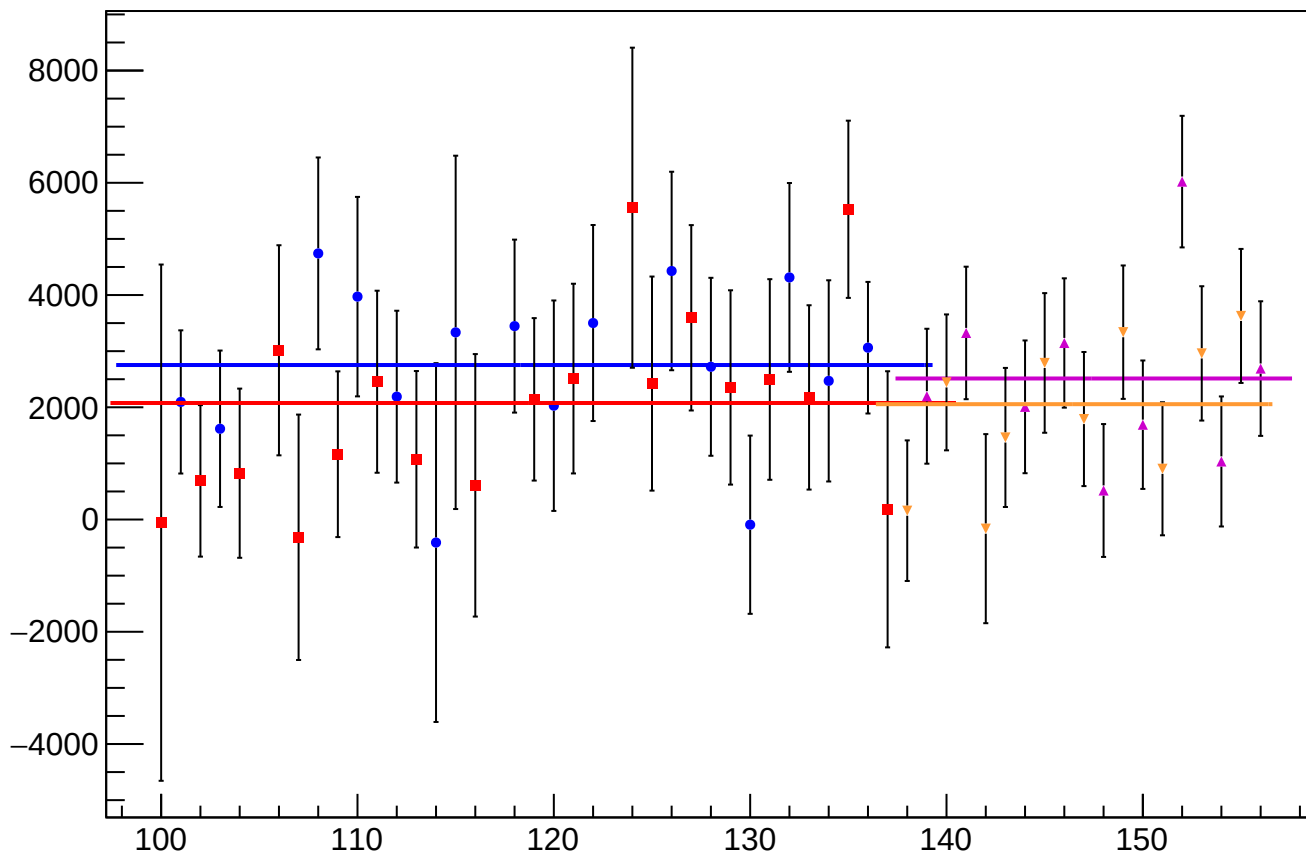
Right: 33.997 $\pm$ 0.007 χ^2 /NDF: 1549368.8/33

In: 37.490 $\pm$ 0.007 χ^2 /NDF: 1215329.3/24

Out: 36.805 $\pm$ 0.007 χ^2 /NDF: 1550313.7/26

All: 37.151 $\pm$ 0.005 χ^2 /NDF: 2770044.2/51

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123+/-409.837 χ^2/NDF : 9.5/15

Left Out: 2055.360+/-392.576 χ^2/NDF : 9.2/9

Right Out: 2076.471+/-403.796 χ^2/NDF : 12.5/18

Left In: 2513.074+/-391.544 χ^2/NDF : 15.0/8

Left: 2284.820+/-277.228 χ^2/NDF : 24.8/18

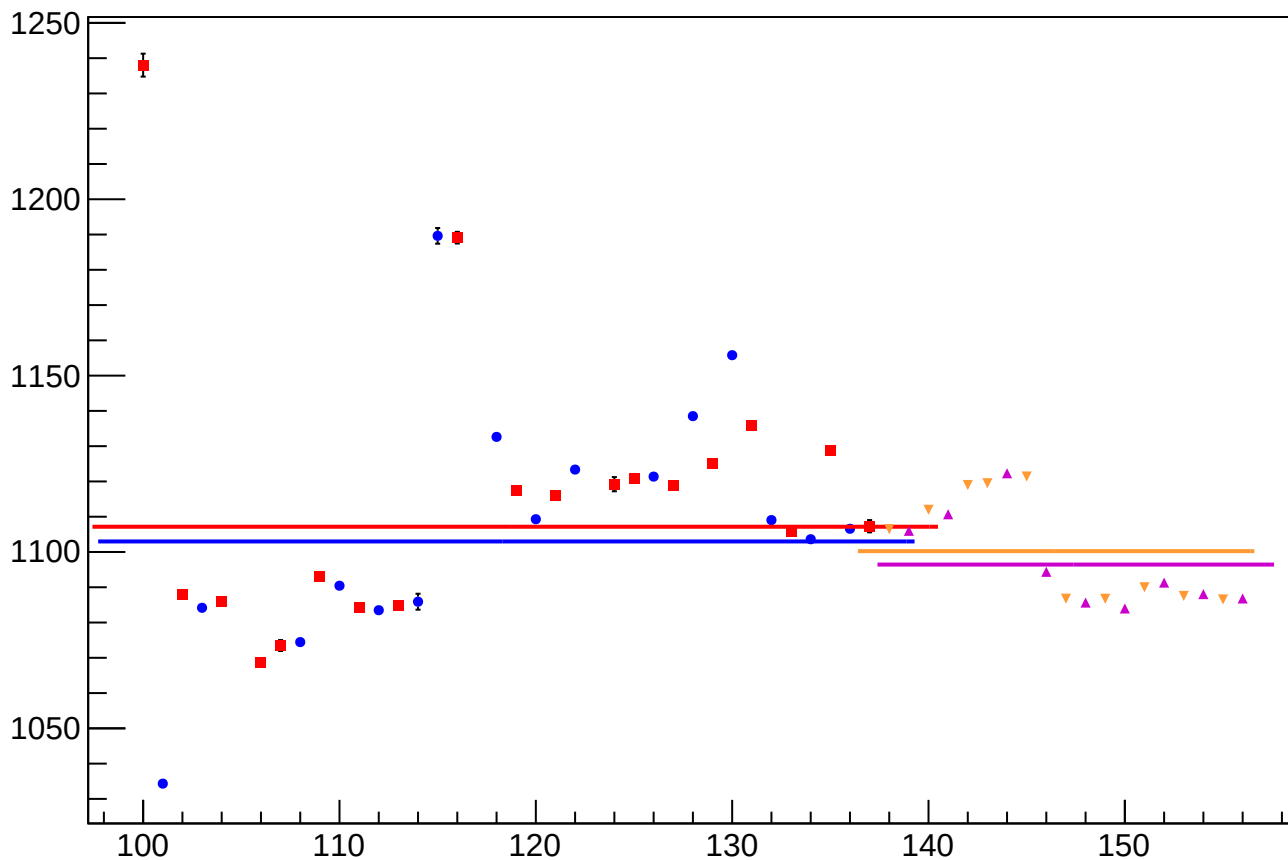
Right: 2409.773+/-287.639 χ^2/NDF : 23.4/34

In: 2627.622+/-283.110 χ^2/NDF : 24.7/24

Out: 2065.619+/-281.476 χ^2/NDF : 21.7/28

All: 2344.994+/-199.609 χ^2/NDF : 48.4/53

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1100.239 $\pm$ 0.278 χ^2 /NDF: 2696.3/9

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1096.434 $\pm$ 0.277 χ^2 /NDF: 2055.7/8

Left: 1098.331 $\pm$ 0.196 χ^2 /NDF: 4846.2/18

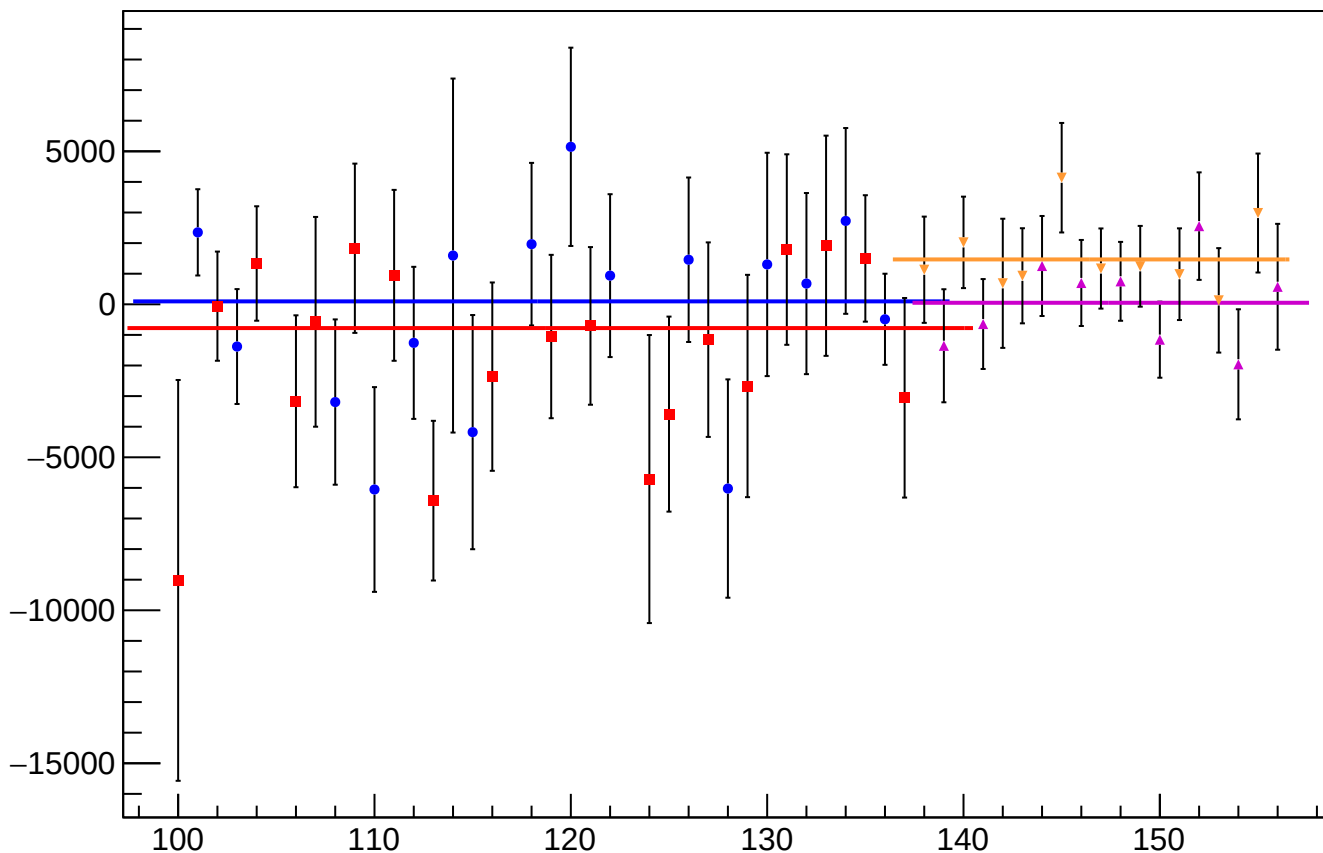
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1099.561 $\pm$ 0.200 χ^2 /NDF: 15546.9/24

Out: 1103.602 $\pm$ 0.199 χ^2 /NDF: 11681.6/28

All: 1101.593 $\pm$ 0.141 χ^2 /NDF: 27433.4/53

asym_usr_reg_correction_mean vs Slug, Sign Corrected



Right In: 95.955 $\pm$ 618.095 χ^2/NDF : 16.9/15

Left Out: 1466.657 $\pm$ 503.748 χ^2/NDF : 4.1/9

Right Out: -776.996 $\pm$ 636.966 χ^2/NDF : 15.1/18

Left In: 49.862 $\pm$ 516.102 χ^2/NDF : 6.1/8

Left: 775.421 $\pm$ 360.492 χ^2/NDF : 14.1/18

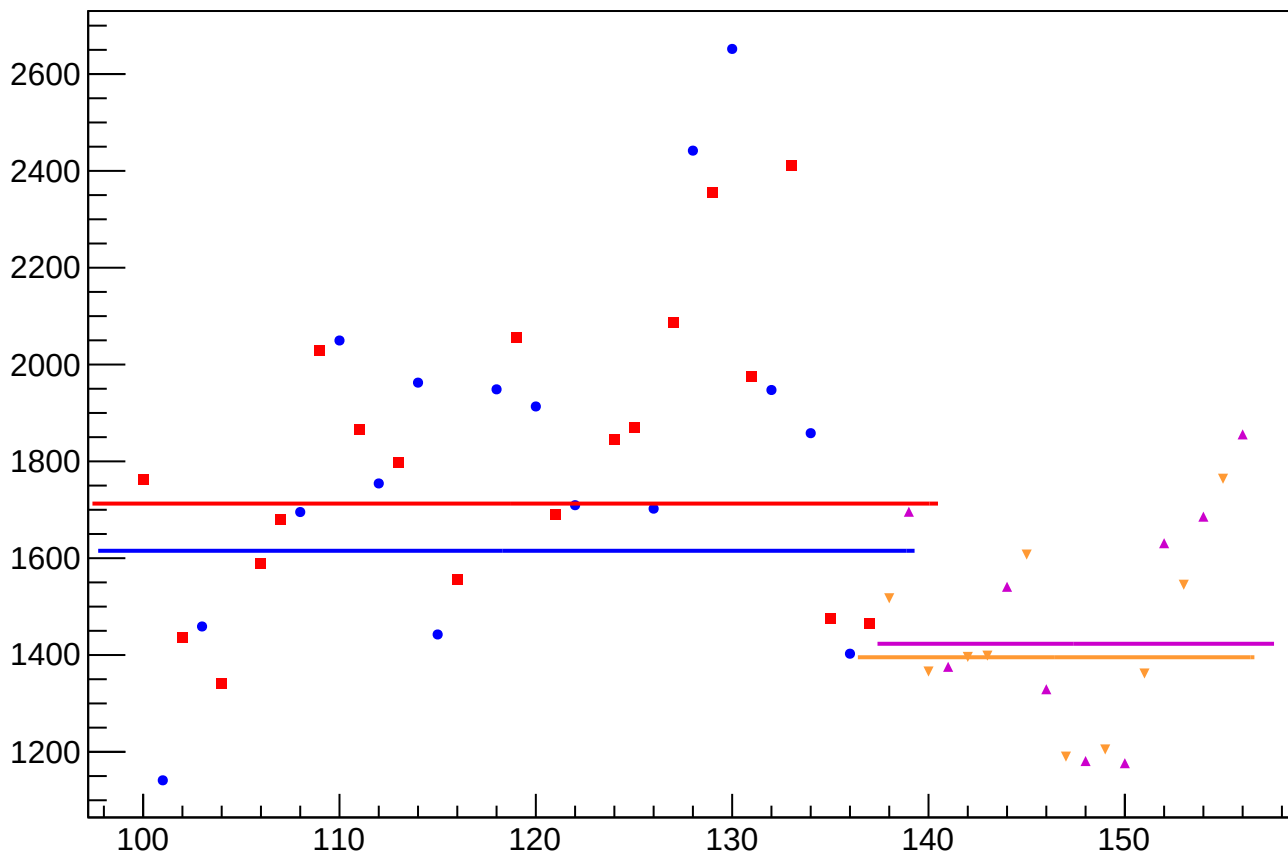
Right: -327.398 $\pm$ 443.581 χ^2/NDF : 33.0/34

In: 68.797 $\pm$ 396.158 χ^2/NDF : 23.1/24

Out: 603.331 $\pm$ 395.117 χ^2/NDF : 26.8/28

All: 336.767 $\pm$ 279.757 χ^2/NDF : 50.8/53

asym_usr_reg_correction_rms vs Slug, Sign Corrected



Right In: 1615.316 $\pm$ 0.437 χ^2/NDF : 693630.0/15

Left Out: 1395.392 $\pm$ 0.356 χ^2/NDF : 217846.2/9

Right Out: 1712.798 $\pm$ 0.450 χ^2/NDF : 428065.0/18

Left In: 1423.234 $\pm$ 0.365 χ^2/NDF : 373288.4/8

Left: 1408.976 $\pm$ 0.255 χ^2/NDF : 594115.3/18

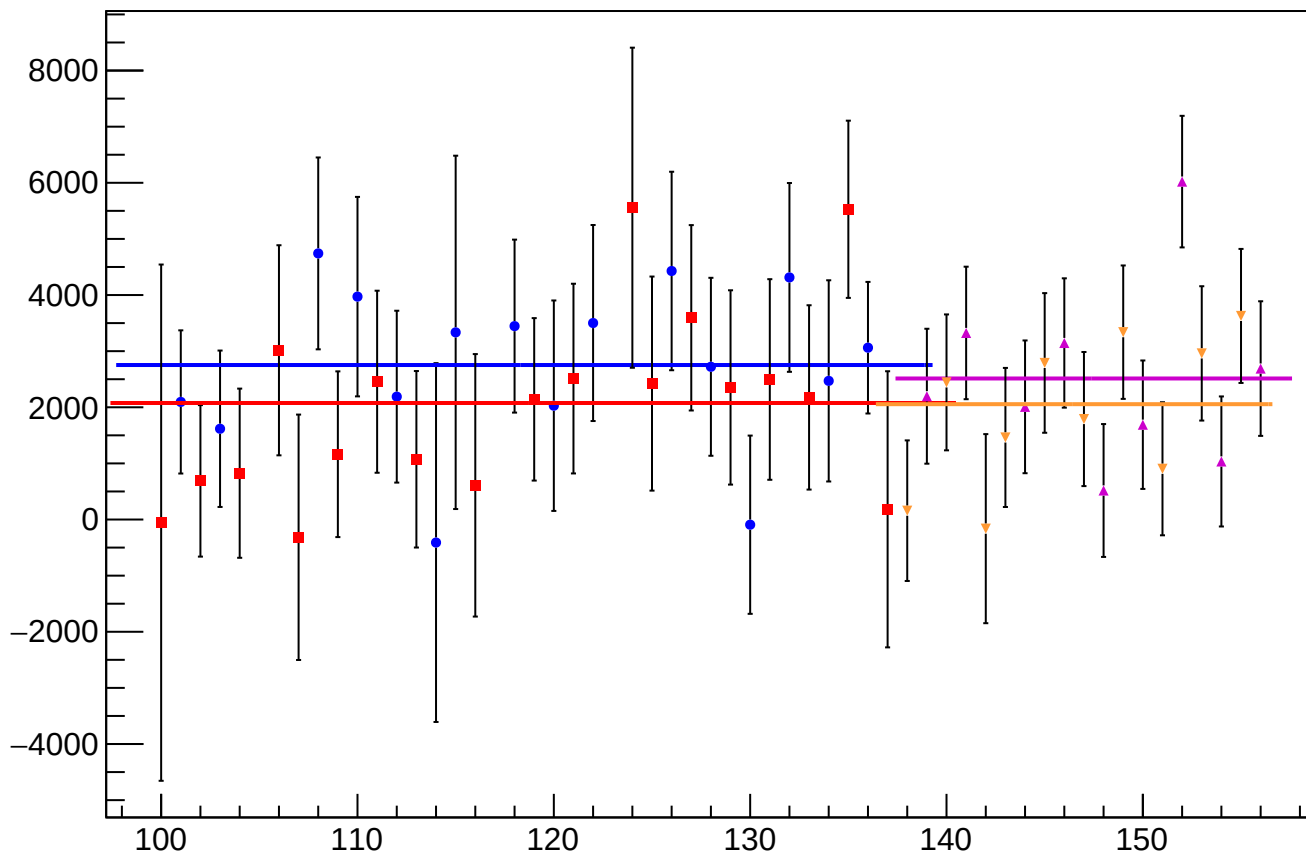
Right: 1662.591 $\pm$ 0.314 χ^2/NDF : 1145820.9/34

In: 1502.141 $\pm$ 0.280 χ^2/NDF : 1180721.6/24

Out: 1517.526 $\pm$ 0.279 χ^2/NDF : 951440.2/28

All: 1509.853 $\pm$ 0.198 χ^2/NDF : 2133673.9/53

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123+/-409.837 χ^2/NDF : 9.5/15

Left Out: 2055.360+/-392.576 χ^2/NDF : 9.2/9

Right Out: 2076.471+/-403.796 χ^2/NDF : 12.5/18

Left In: 2513.074+/-391.544 χ^2/NDF : 15.0/8

Left: 2284.820+/-277.228 χ^2/NDF : 24.8/18

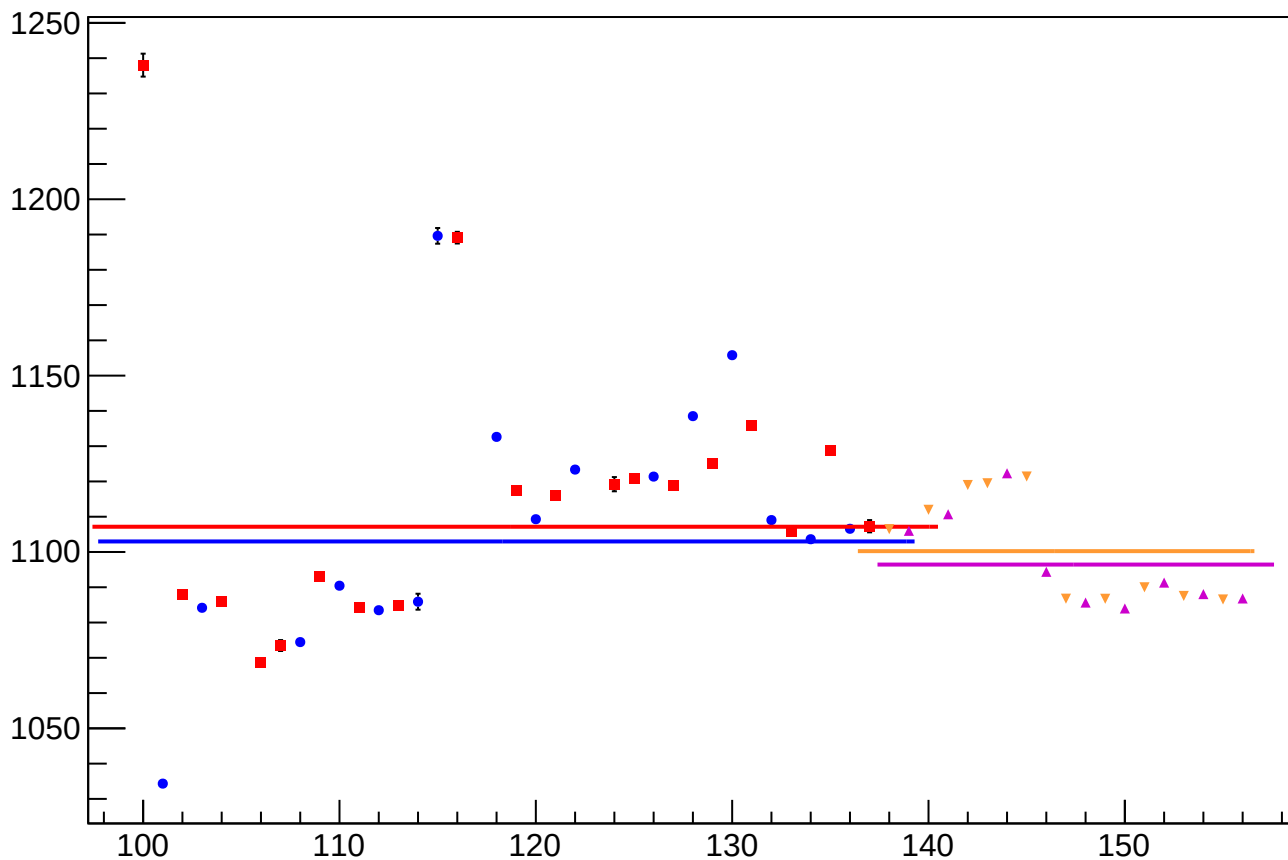
Right: 2409.773+/-287.639 χ^2/NDF : 23.4/34

In: 2627.622+/-283.110 χ^2/NDF : 24.7/24

Out: 2065.619+/-281.476 χ^2/NDF : 21.7/28

All: 2344.994+/-199.609 χ^2/NDF : 48.4/53

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 ± 0.290 $\chi^2/\text{NDF}: 13223.8/15$

Left Out: 1100.239 ± 0.278 $\chi^2/\text{NDF}: 2696.3/9$

Right Out: 1107.159 ± 0.286 $\chi^2/\text{NDF}: 8683.4/18$

Left In: 1096.434 ± 0.277 $\chi^2/\text{NDF}: 2055.7/8$

Left: 1098.331 ± 0.196 $\chi^2/\text{NDF}: 4846.2/18$

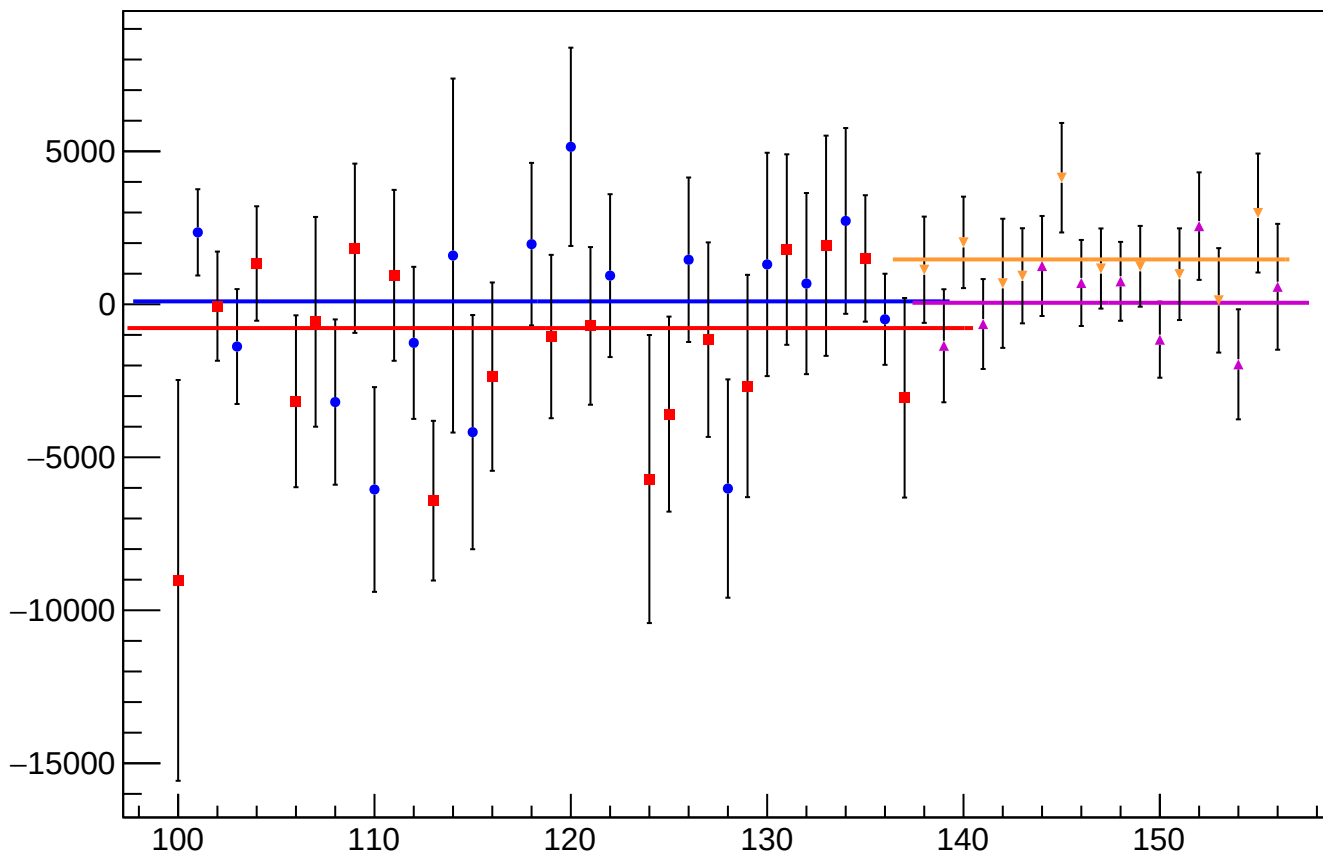
Right: 1105.104 ± 0.203 $\chi^2/\text{NDF}: 22012.3/34$

In: 1099.561 ± 0.200 $\chi^2/\text{NDF}: 15546.9/24$

Out: 1103.602 ± 0.199 $\chi^2/\text{NDF}: 11681.6/28$

All: 1101.593 ± 0.141 $\chi^2/\text{NDF}: 27433.4/53$

asym_usr_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 1466.657+/-503.748 χ^2/NDF : 4.1/9

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: 49.862+/-516.102 χ^2/NDF : 6.1/8

Left: 775.421+/-360.492 χ^2/NDF : 14.1/18

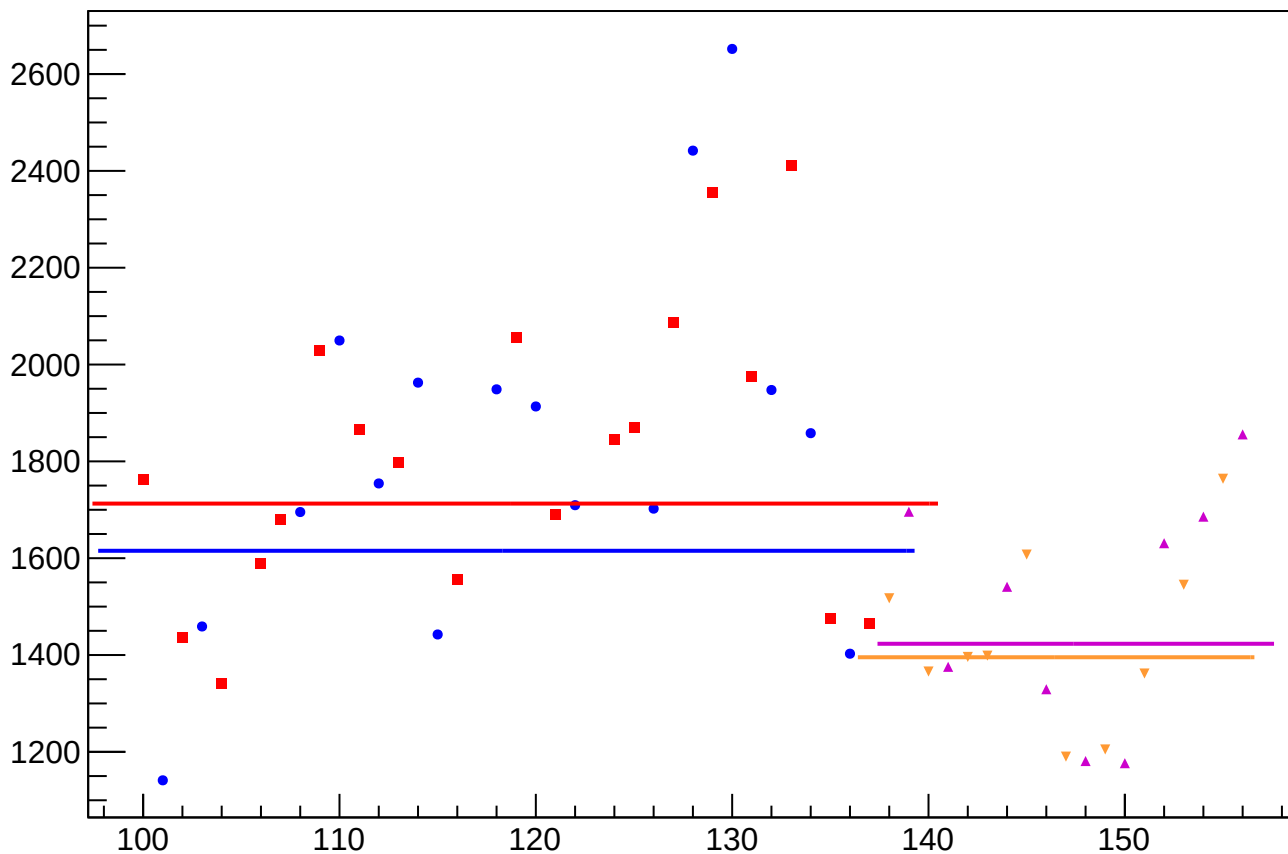
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: 68.797+/-396.158 χ^2/NDF : 23.1/24

Out: 603.331+/-395.117 χ^2/NDF : 26.8/28

All: 336.767+/-279.757 χ^2/NDF : 50.8/53

asym_usr_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316 $\pm$ 0.437 χ^2/NDF : 693630.0/15

Left Out: 1395.392 $\pm$ 0.356 χ^2/NDF : 217846.2/9

Right Out: 1712.798 $\pm$ 0.450 χ^2/NDF : 428065.0/18

Left In: 1423.234 $\pm$ 0.365 χ^2/NDF : 373288.4/8

Left: 1408.976 $\pm$ 0.255 χ^2/NDF : 594115.3/18

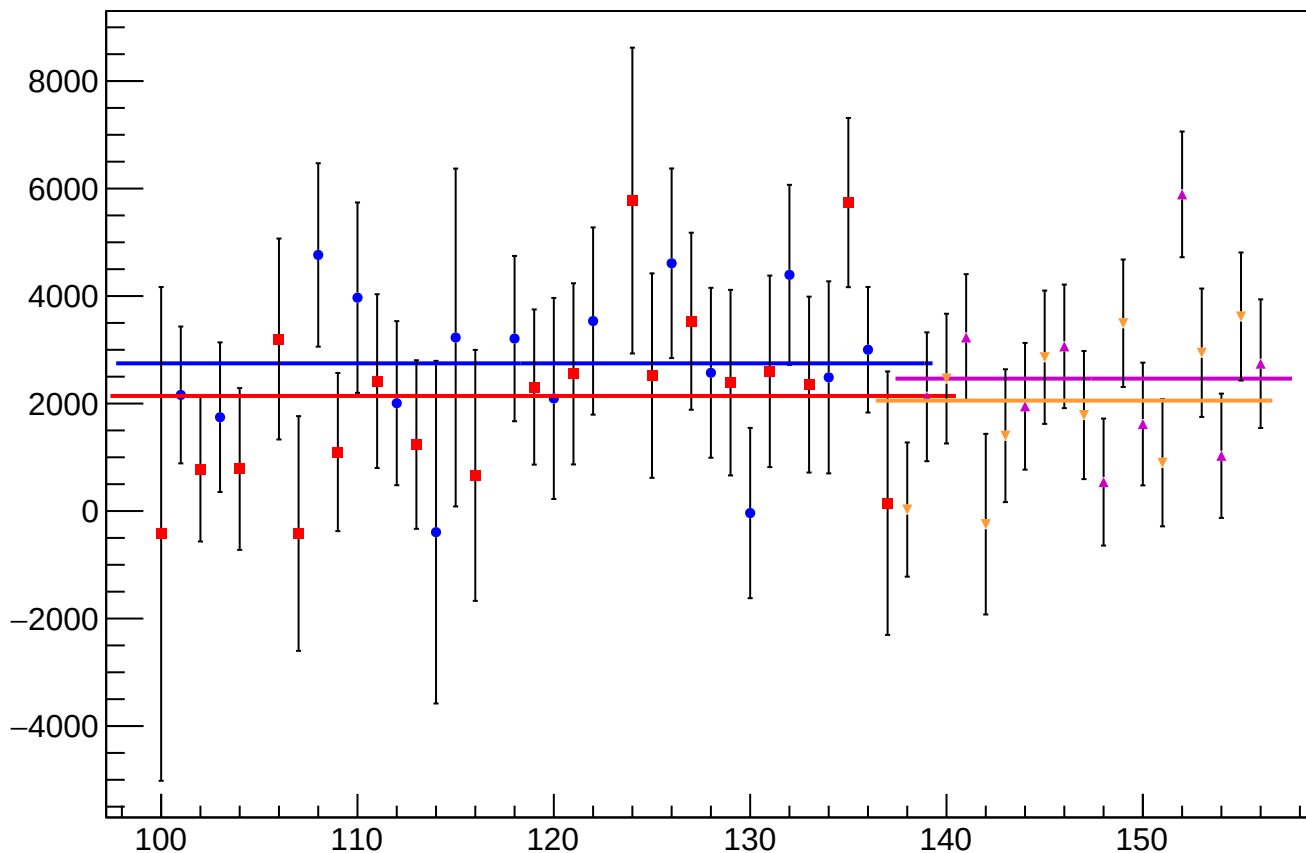
Right: 1662.591 $\pm$ 0.314 χ^2/NDF : 1145820.9/34

In: 1502.141 $\pm$ 0.280 χ^2/NDF : 1180721.6/24

Out: 1517.526 $\pm$ 0.279 χ^2/NDF : 951440.2/28

All: 1509.853 $\pm$ 0.198 χ^2/NDF : 2133673.9/53

overload_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2747.939 $\pm$ 408.759 χ^2 /NDF: 9.5/15

Left Out: 2054.399 $\pm$ 391.533 χ^2 /NDF:10.1/9

Right Out: 2141.169 $\pm$ 402.789 χ^2 /NDF: 13.6/18

Left In: 2463.952 $\pm$ 390.599 χ^2 /NDF:14.4/8

Left: 2259.665 $\pm$ 276.525 χ^2 /NDF: 25.0/18

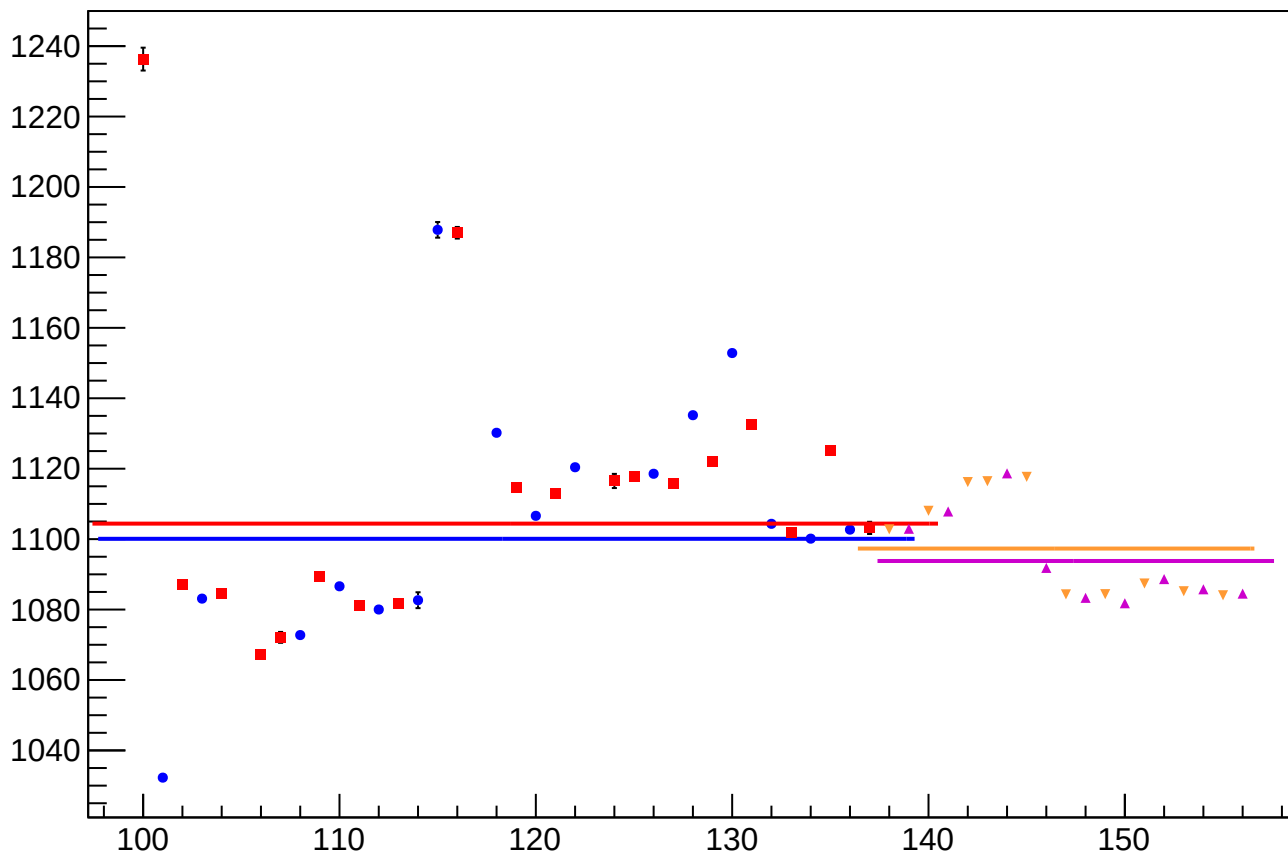
Right: 2440.090 $\pm$ 286.902 χ^2 /NDF: 24.2/34

In: 2599.497 $\pm$ 282.397 χ^2 /NDF:24.1/24

Out: 2096.555 $\pm$ 280.751 χ^2 /NDF:23.7/28

All: 2346.555 $\pm$ 199.100 χ^2 /NDF: 49.4/53

overload_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1100.090 $\pm$ 0.289 χ^2 /NDF: 13077.1/15

Left Out: 1097.324 $\pm$ 0.277 χ^2 /NDF:2538.4/9

Right Out: 1104.403 $\pm$ 0.285 χ^2 /NDF: 8543.5/18

Left In: 1093.792 $\pm$ 0.276 χ^2 /NDF:1931.6/8

Left: 1095.554 $\pm$ 0.196 χ^2 /NDF: 4551.5/18

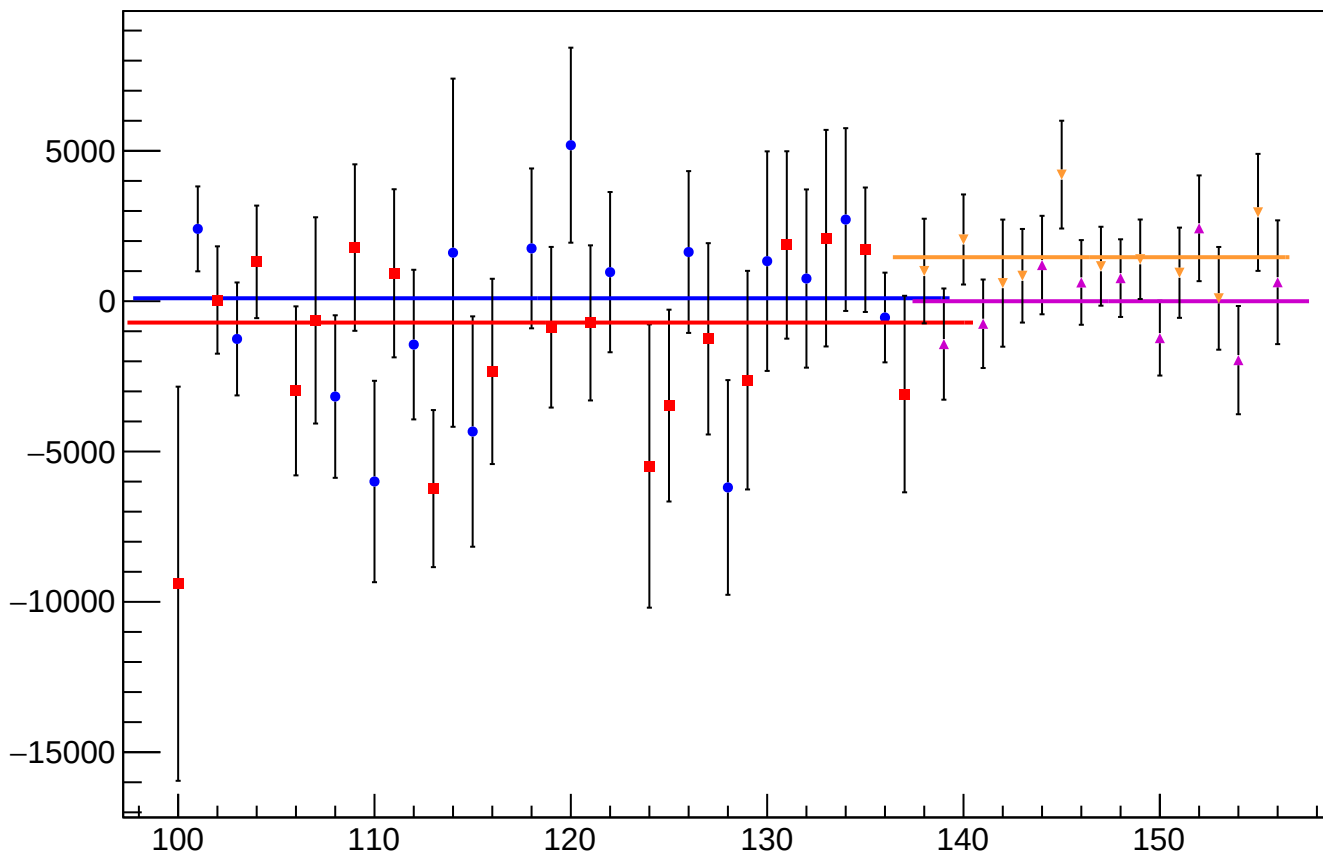
Right: 1102.278 $\pm$ 0.203 χ^2 /NDF: 21733.6/34

In: 1096.798 $\pm$ 0.200 χ^2 /NDF:15256.9/24

Out: 1100.763 $\pm$ 0.199 χ^2 /NDF:11399.6/28

All: 1098.792 $\pm$ 0.141 χ^2 /NDF: 26854.7/53

asym_usr_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: 97.435+/-618.876 χ^2/NDF : 17.2/15

Left Out: 1462.781+/-504.597 χ^2/NDF : 4.3/9

Right Out: -711.287+/-637.587 χ^2/NDF : 14.9/18

Left In: -1.292+/-516.868 χ^2/NDF : 6.1/8

Left: 748.331+/-361.064 χ^2/NDF : 14.5/18

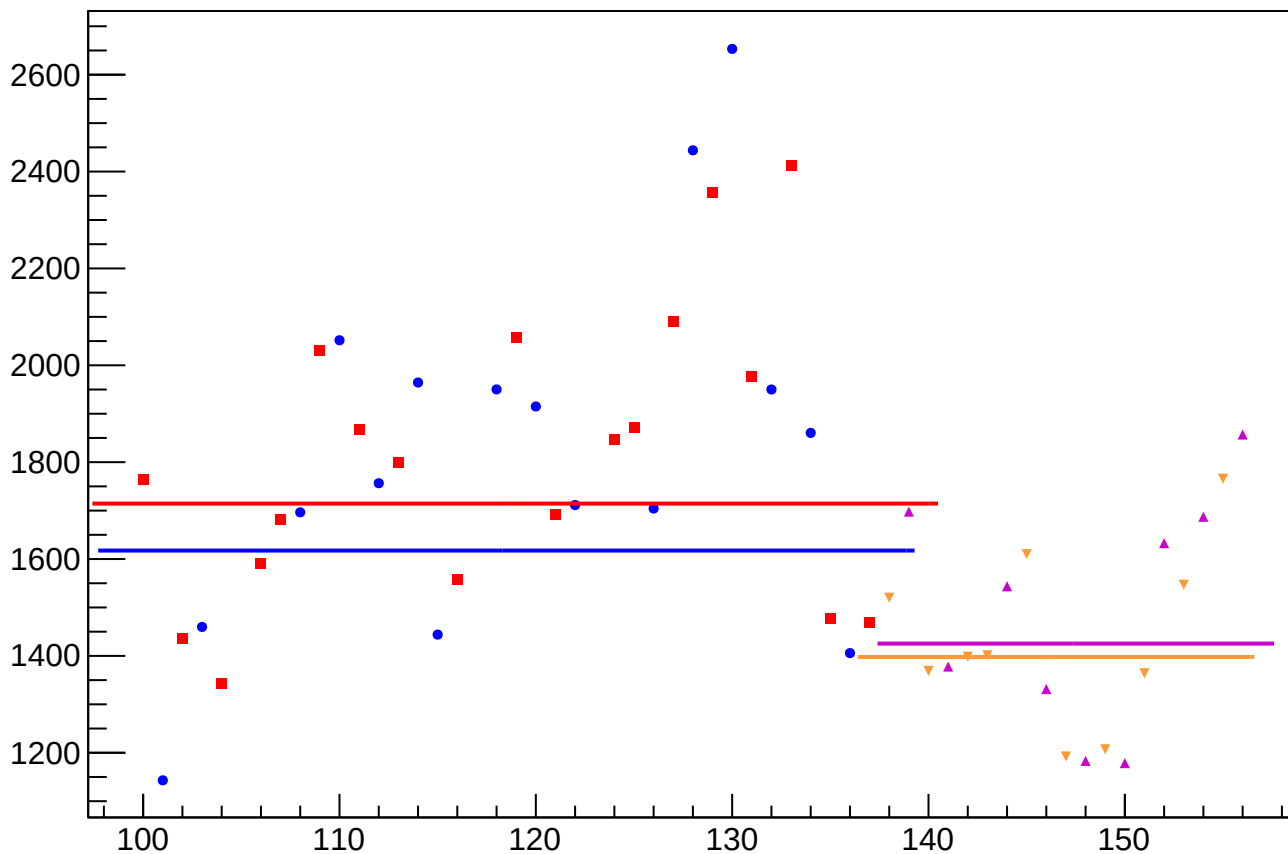
Right: -294.885+/-444.079 χ^2/NDF : 33.0/34

In: 39.275+/-396.710 χ^2/NDF : 23.3/24

Out: 625.499+/-395.675 χ^2/NDF : 26.4/28

All: 333.153+/-280.150 χ^2/NDF : 50.8/53

asym_usr_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 1617.491+/-0.438 χ^2/NDF : 691725.3/15

Left Out: 1397.814+/-0.357 χ^2/NDF : 217029.0/9

Right Out: 1714.508+/-0.451 χ^2/NDF : 427709.9/18

Left In: 1425.434+/-0.365 χ^2/NDF : 371815.4/8

Left: 1411.292+/-0.255 χ^2/NDF : 591768.6/18

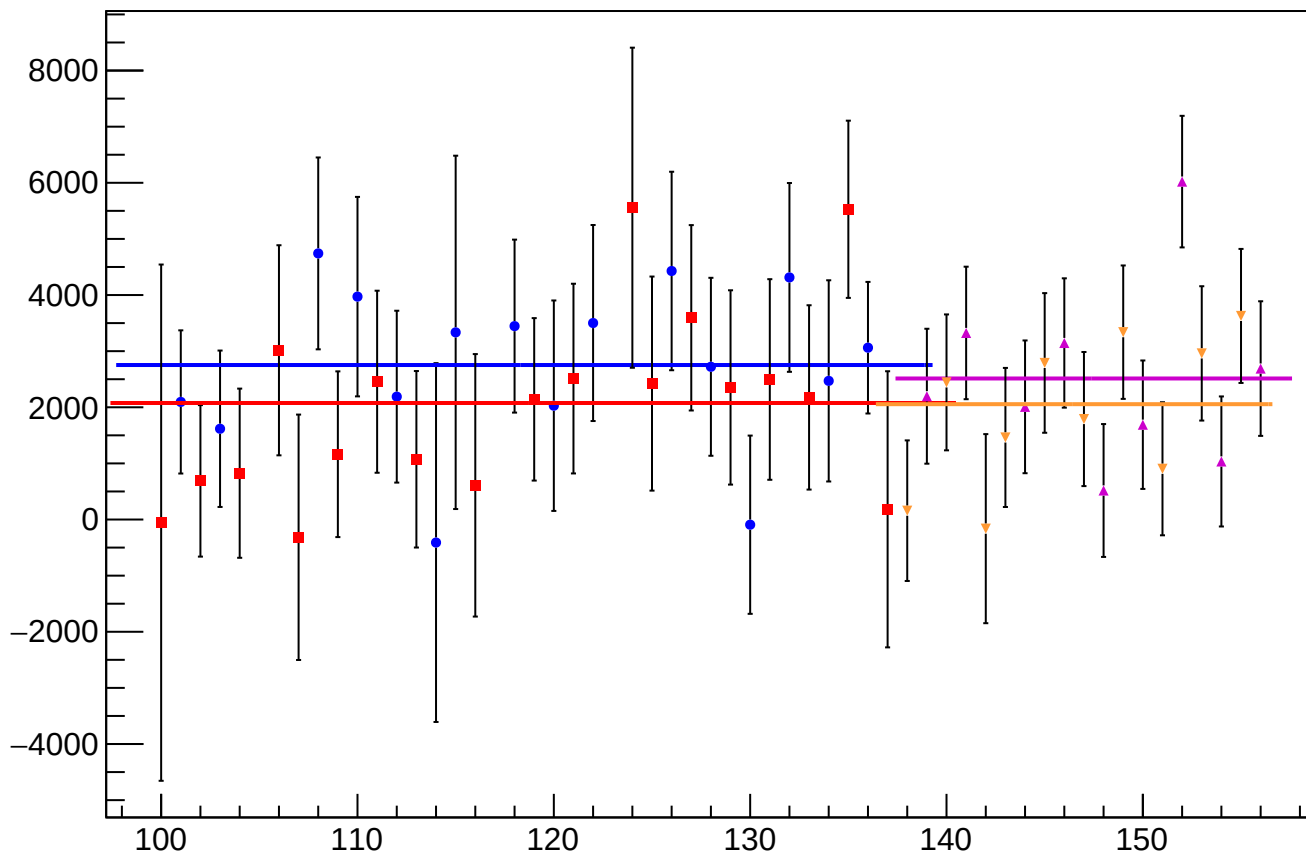
Right: 1664.555+/-0.314 χ^2/NDF : 1143278.0/34

In: 1504.351+/-0.281 χ^2/NDF : 1177007.3/24

Out: 1519.780+/-0.280 χ^2/NDF : 948140.5/28

All: 1512.086+/-0.198 χ^2/NDF : 2126664.3/53

eigen_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2/NDF : 9.5/15

Left Out: 2055.360 $\pm$ 392.576 χ^2/NDF : 9.2/9

Right Out: 2076.471 $\pm$ 403.796 χ^2/NDF : 12.5/18

Left In: 2513.074 $\pm$ 391.544 χ^2/NDF : 15.0/8

Left: 2284.820 $\pm$ 277.228 χ^2/NDF : 24.8/18

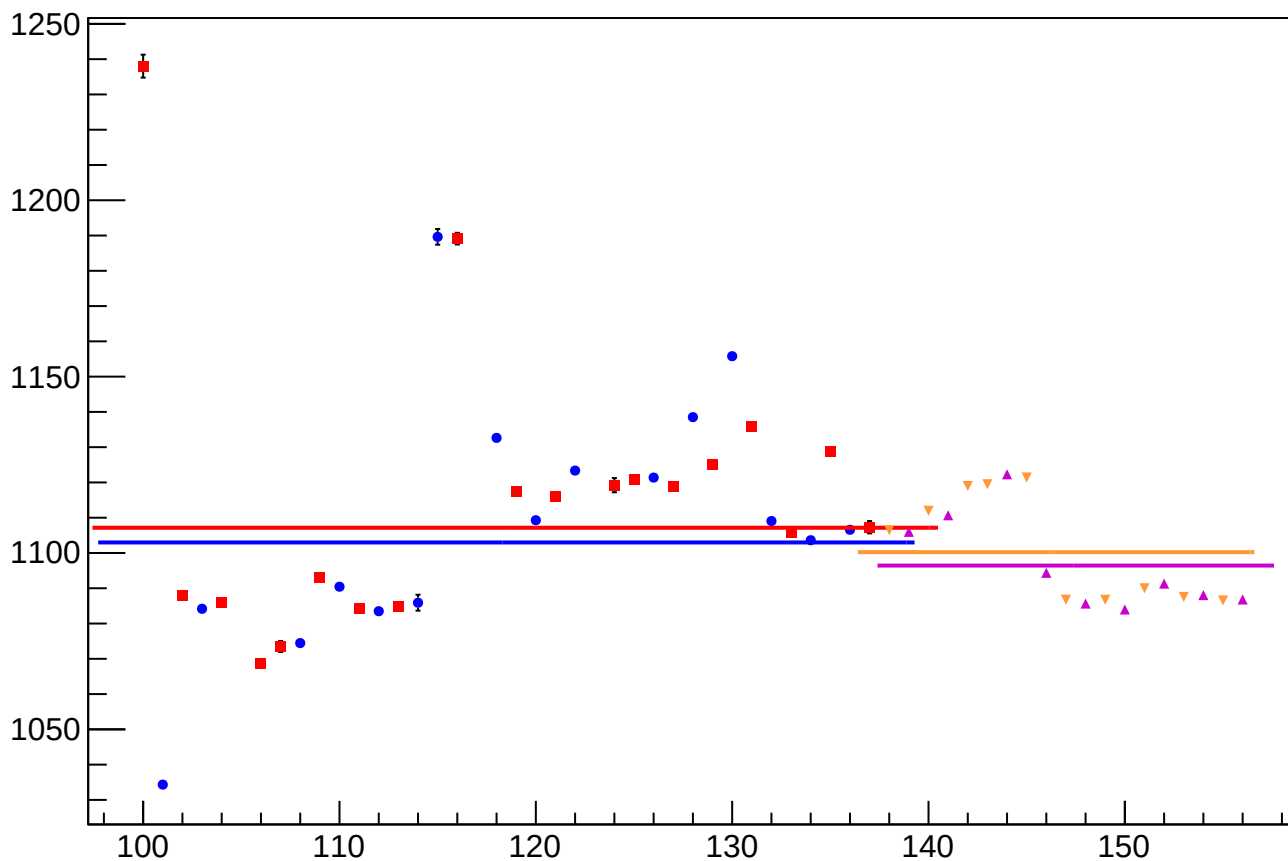
Right: 2409.773 $\pm$ 287.639 χ^2/NDF : 23.4/34

In: 2627.622 $\pm$ 283.110 χ^2/NDF : 24.7/24

Out: 2065.619 $\pm$ 281.476 χ^2/NDF : 21.7/28

All: 2344.994 $\pm$ 199.609 χ^2/NDF : 48.4/53

eigen_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1100.239 $\pm$ 0.278 χ^2 /NDF: 2696.3/9

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1096.434 $\pm$ 0.277 χ^2 /NDF: 2055.7/8

Left: 1098.331 $\pm$ 0.196 χ^2 /NDF: 4846.2/18

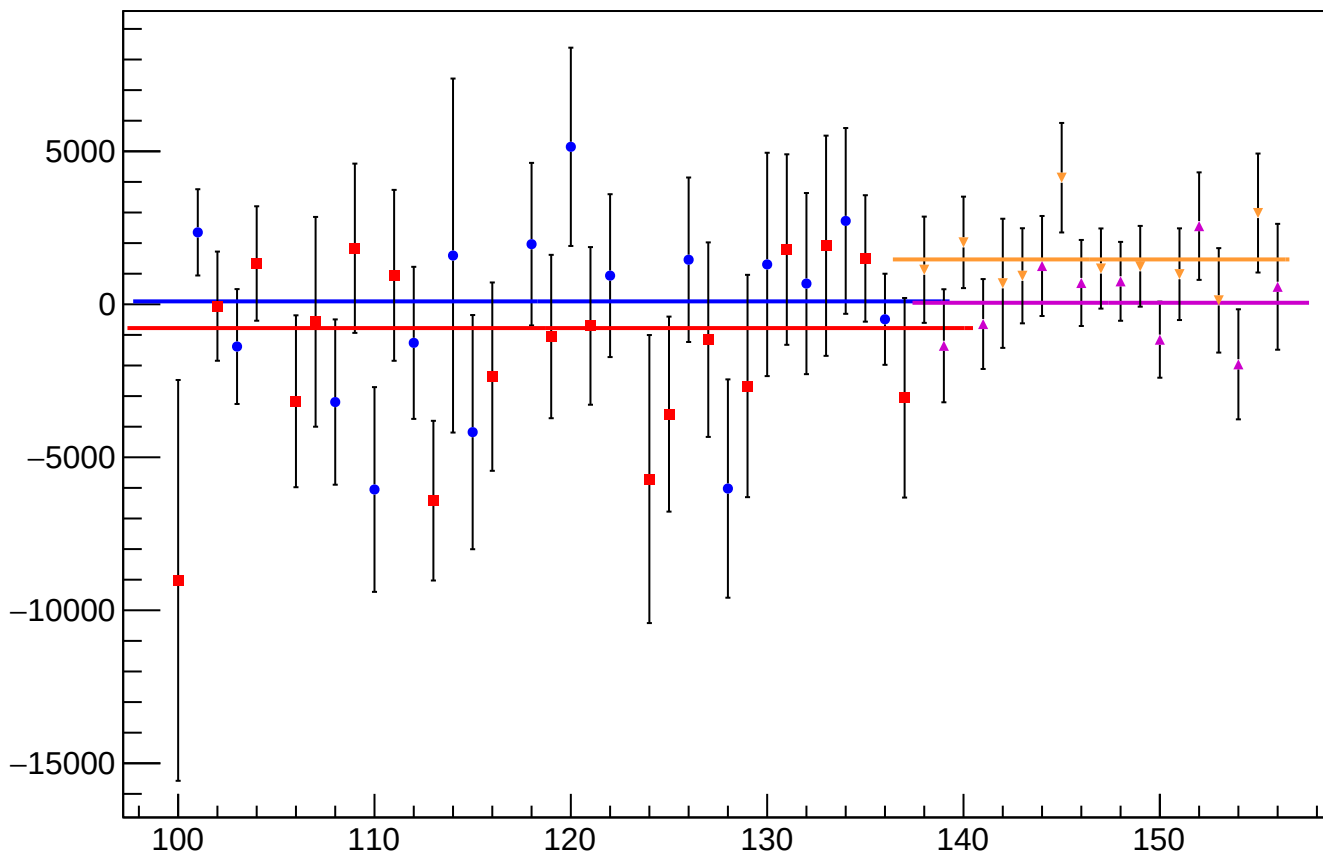
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1099.561 $\pm$ 0.200 χ^2 /NDF: 15546.9/24

Out: 1103.602 $\pm$ 0.199 χ^2 /NDF: 11681.6/28

All: 1101.593 $\pm$ 0.141 χ^2 /NDF: 27433.4/53

asym_usr_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 1466.657+/-503.748 χ^2/NDF : 4.1/9

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: 49.862+/-516.102 χ^2/NDF : 6.1/8

Left: 775.421+/-360.492 χ^2/NDF : 14.1/18

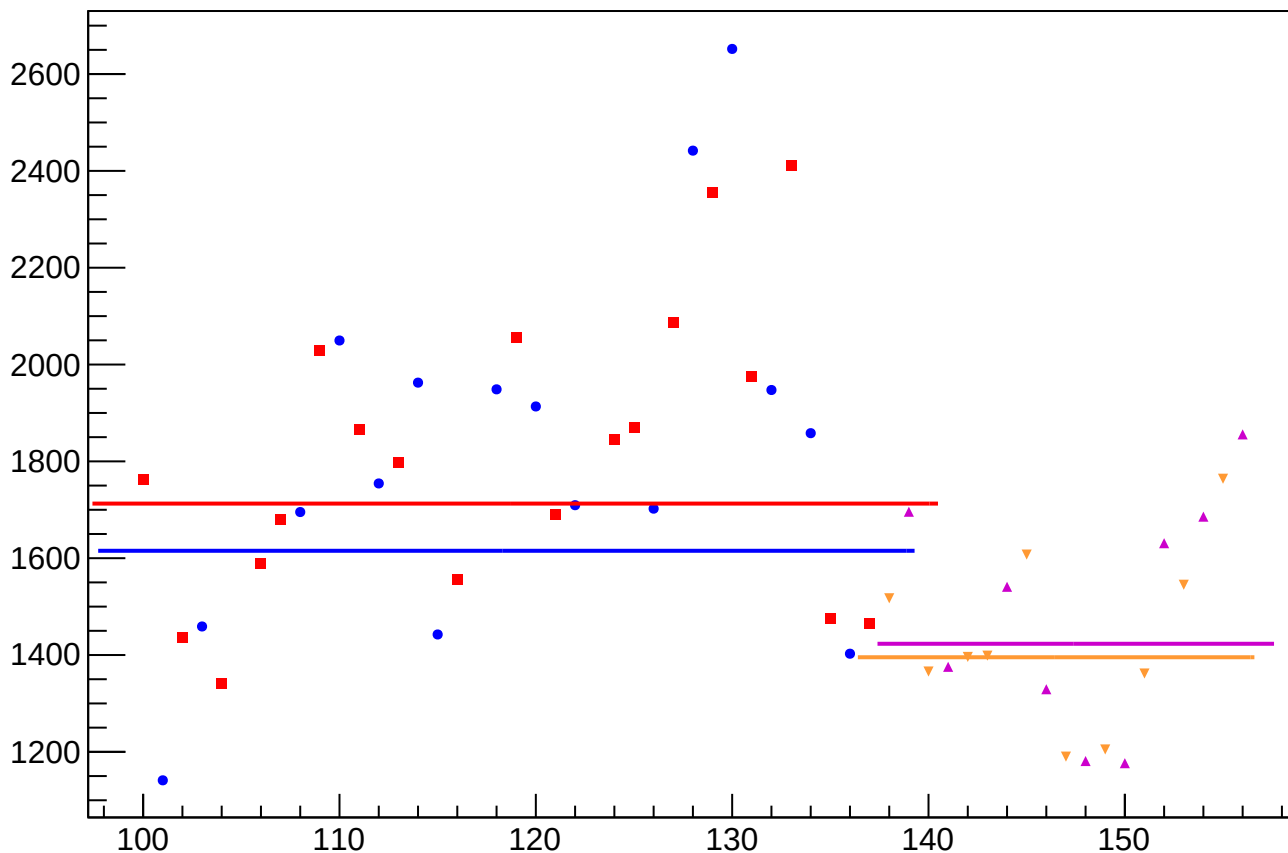
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: 68.797+/-396.158 χ^2/NDF : 23.1/24

Out: 603.331+/-395.117 χ^2/NDF : 26.8/28

All: 336.767+/-279.757 χ^2/NDF : 50.8/53

asym_usr_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316+/-0.437 χ^2/NDF : 693630.0/15

Left Out: 1395.392+/-0.356 χ^2/NDF : 217846.2/9

Right Out: 1712.798+/-0.450 χ^2/NDF : 428065.0/18

Left In: 1423.234+/-0.365 χ^2/NDF : 373288.4/8

Left: 1408.976+/-0.255 χ^2/NDF : 594115.3/18

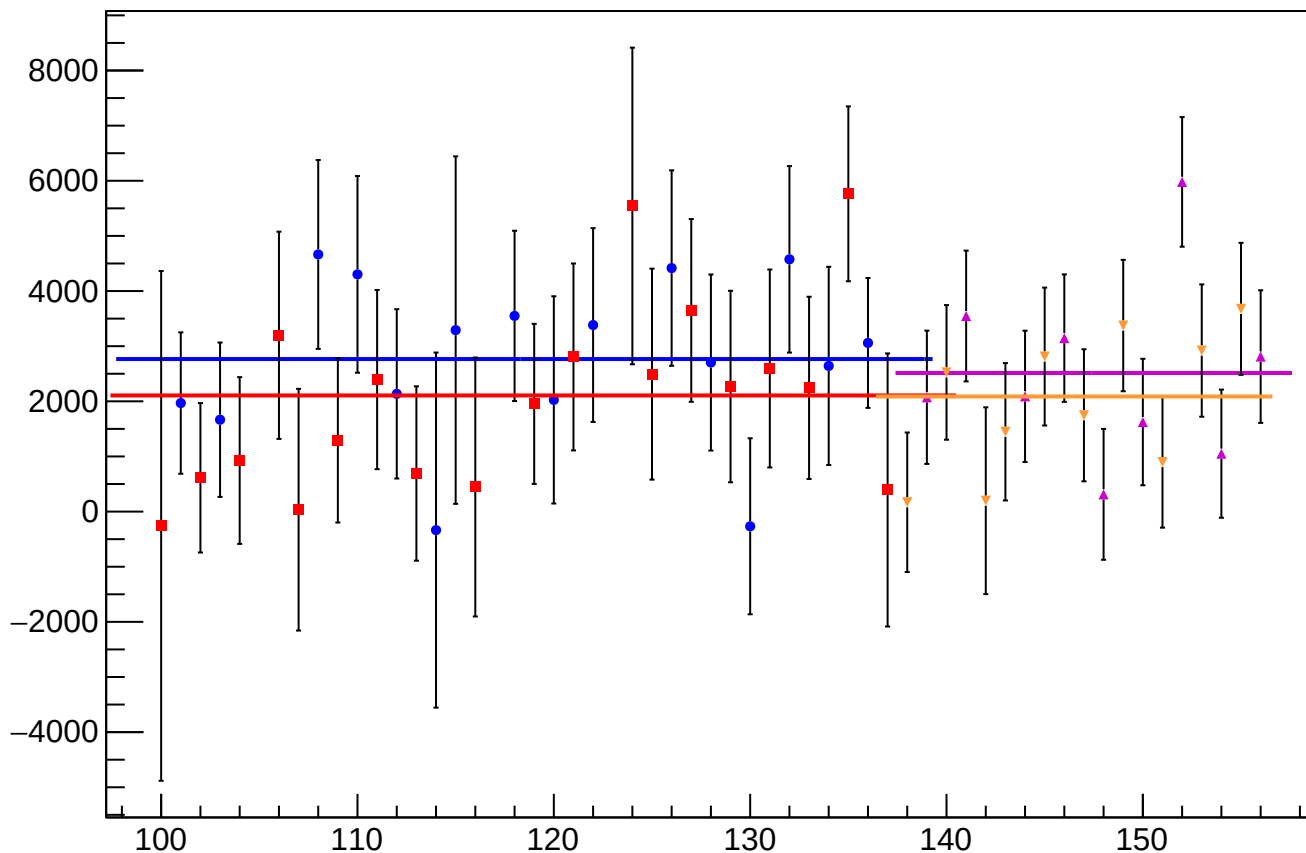
Right: 1662.591+/-0.314 χ^2/NDF : 1145820.9/34

In: 1502.141+/-0.280 χ^2/NDF : 1180721.6/24

Out: 1517.526+/-0.279 χ^2/NDF : 951440.2/28

All: 1509.853+/-0.198 χ^2/NDF : 2133673.9/53

dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.657 $\pm$ 411.563 χ^2/NDF : 10.3/15

Left Out: 2087.793 $\pm$ 394.417 χ^2/NDF : 8.8/9

Right Out: 2106.358 $\pm$ 405.586 χ^2/NDF : 13.4/18

Left In: 2513.703 $\pm$ 392.968 χ^2/NDF : 15.7/8

Left: 2301.532 $\pm$ 278.381 χ^2/NDF : 25.1/18

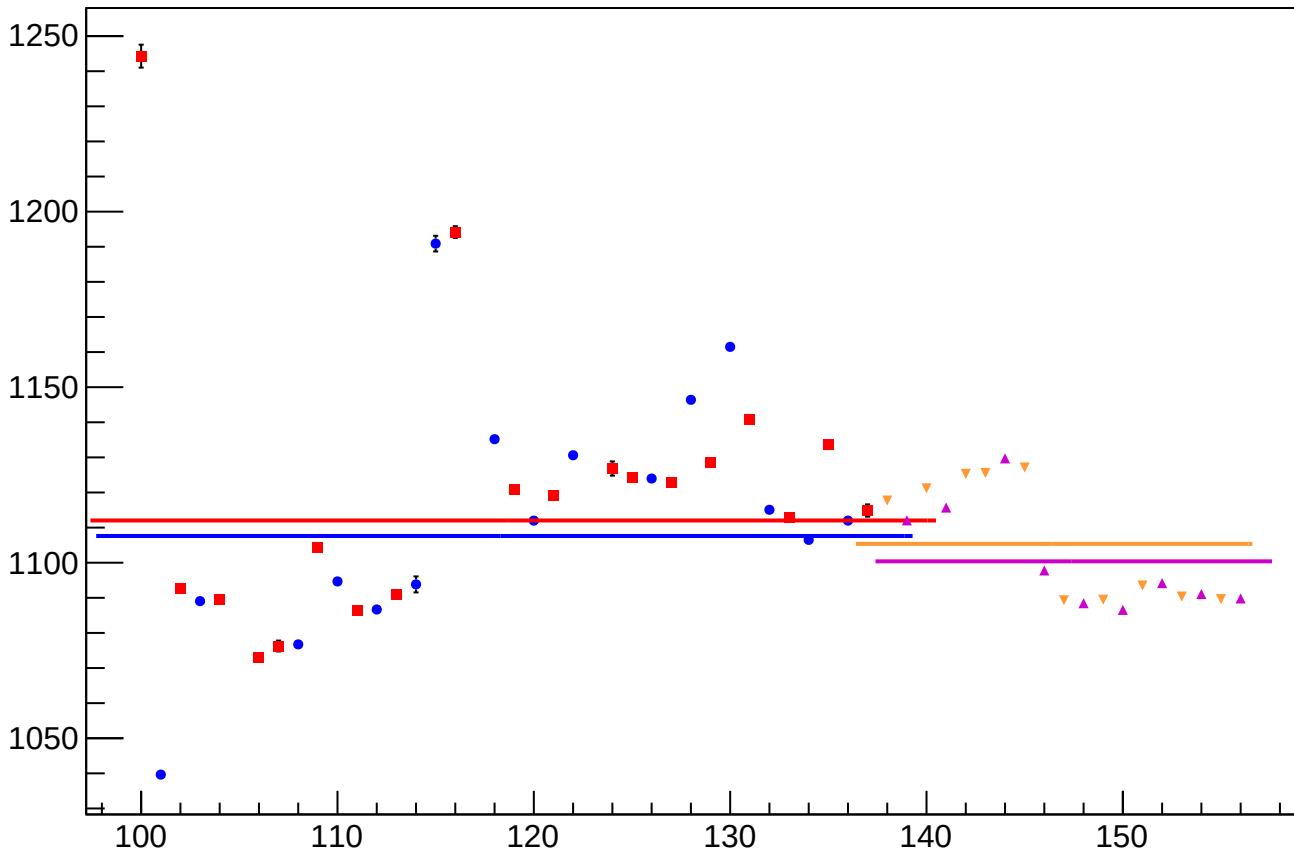
Right: 2431.678 $\pm$ 288.883 χ^2/NDF : 25.0/34

In: 2634.336 $\pm$ 284.217 χ^2/NDF : 26.2/24

Out: 2096.816 $\pm$ 282.761 χ^2/NDF : 22.1/28

All: 2364.196 $\pm$ 200.455 χ^2/NDF : 50.1/53

dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613+/-0.291 χ^2/NDF : 13220.8/15

Left Out: 1105.363+/-0.279 χ^2/NDF : 3506.4/9

Right Out: 1112.029+/-0.287 χ^2/NDF : 8653.5/18

Left In: 1100.389+/-0.278 χ^2/NDF : 2574.8/8

Left: 1102.867+/-0.197 χ^2/NDF : 6240.8/18

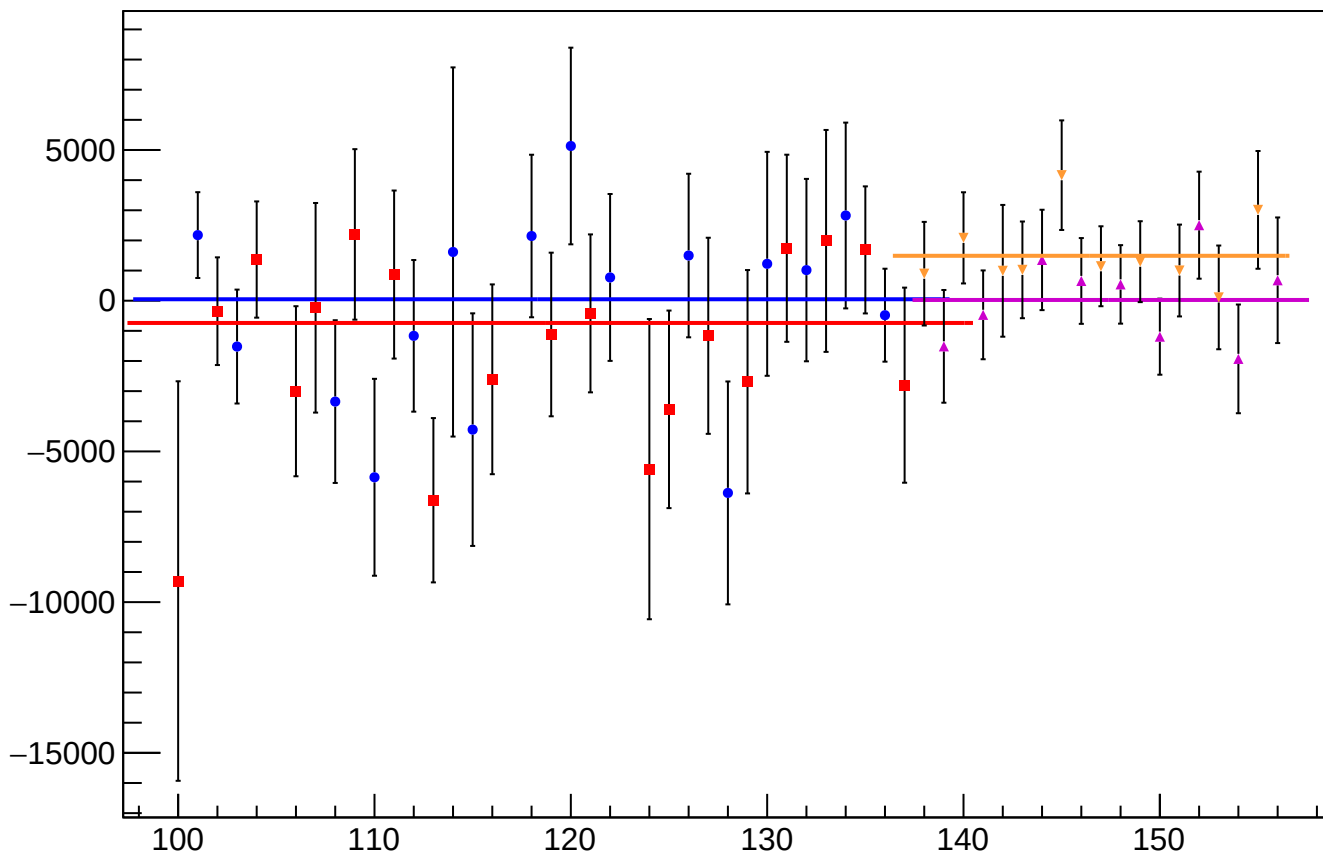
Right: 1109.854+/-0.204 χ^2/NDF : 21991.1/34

In: 1103.834+/-0.201 χ^2/NDF : 16118.0/24

Out: 1108.603+/-0.200 χ^2/NDF : 12437.5/28

All: 1106.231+/-0.142 χ^2/NDF : 28838.5/53

asym_usr_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.817+/-628.060 χ^2/NDF : 16.9/15

Left Out: 1489.894+/-510.909 χ^2/NDF : 4.0/9

Right Out: -738.185+/-647.795 χ^2/NDF : 14.9/18

Left In: 24.580+/-521.722 χ^2/NDF : 5.9/8

Left: 772.579+/-365.030 χ^2/NDF : 14.0/18

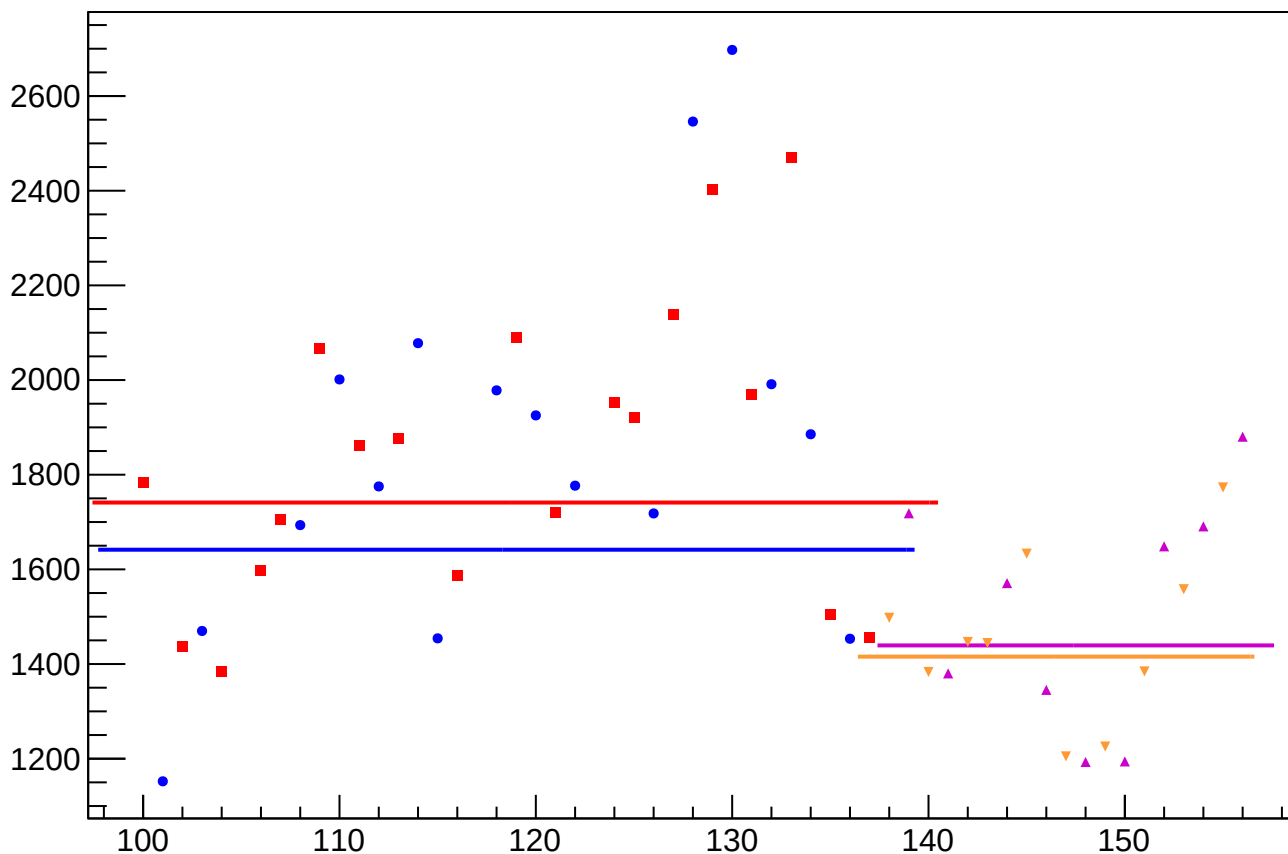
Right: -333.029+/-450.921 χ^2/NDF : 32.6/34

In: 34.068+/-401.320 χ^2/NDF : 22.8/24

Out: 635.451+/-401.157 χ^2/NDF : 26.3/28

All: 334.882+/-283.718 χ^2/NDF : 50.2/53

asym_usr_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.538 $\pm$ 0.444 χ^2 /NDF: 701311.4/15

Left Out: 1415.654 $\pm$ 0.361 χ^2 /NDF: 207304.4/9

Right Out: 1741.200 $\pm$ 0.458 χ^2 /NDF: 438336.6/18

Left In: 1439.343 $\pm$ 0.369 χ^2 /NDF: 372230.4/8

Left: 1427.251 $\pm$ 0.258 χ^2 /NDF: 581639.6/18

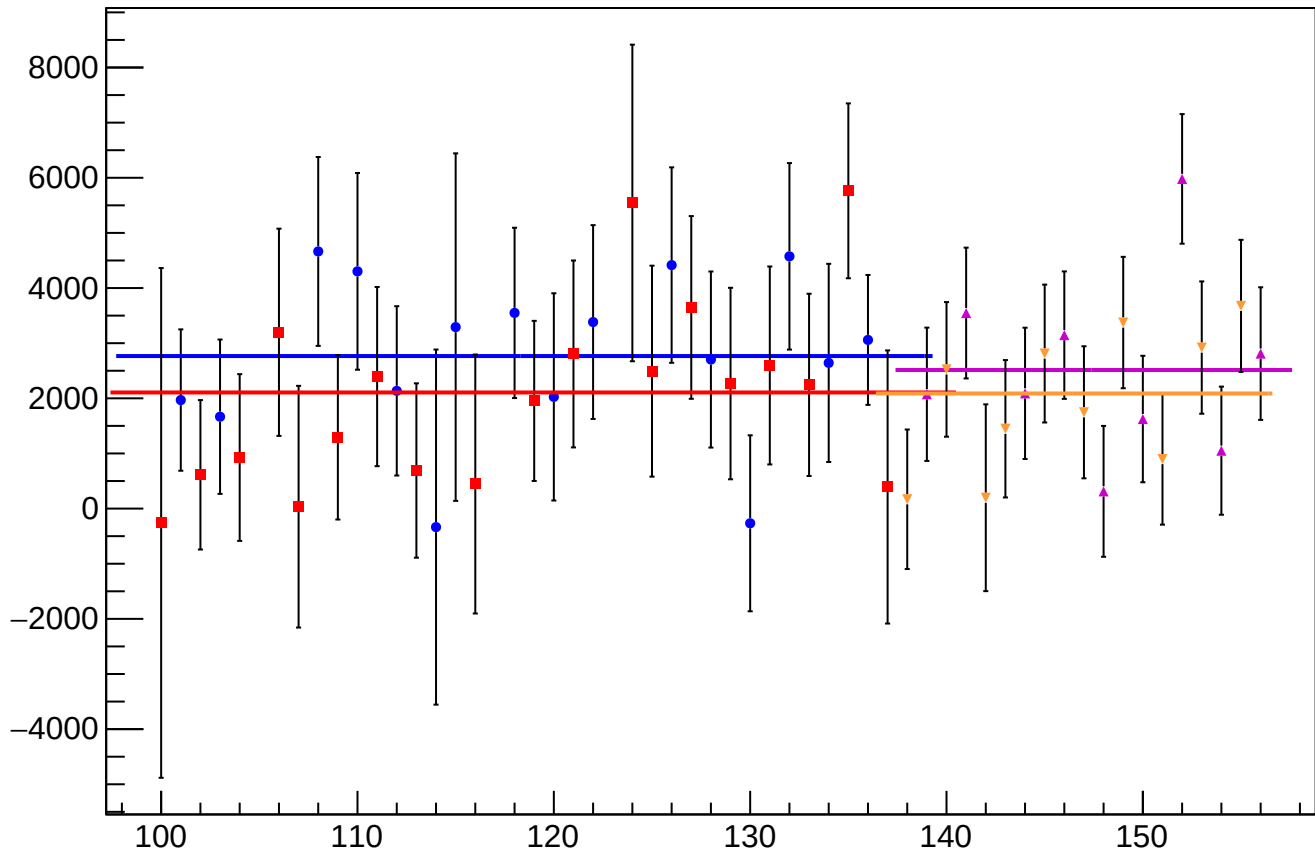
Right: 1689.828 $\pm$ 0.319 χ^2 /NDF: 1164049.3/34

In: 1521.899 $\pm$ 0.284 χ^2 /NDF: 1196192.4/24

Out: 1540.497 $\pm$ 0.284 χ^2 /NDF: 957041.3/28

All: 1531.202 $\pm$ 0.201 χ^2 /NDF: 2155382.3/53

eigen_dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.656 $\pm$ 411.563 χ^2/NDF : 10.3/15

Left Out: 2087.793 $\pm$ 394.417 χ^2/NDF : 8.8/9

Right Out: 2106.360 $\pm$ 405.586 χ^2/NDF : 13.4/18

Left In: 2513.703 $\pm$ 392.968 χ^2/NDF : 15.7/8

Left: 2301.532 $\pm$ 278.381 χ^2/NDF : 25.1/18

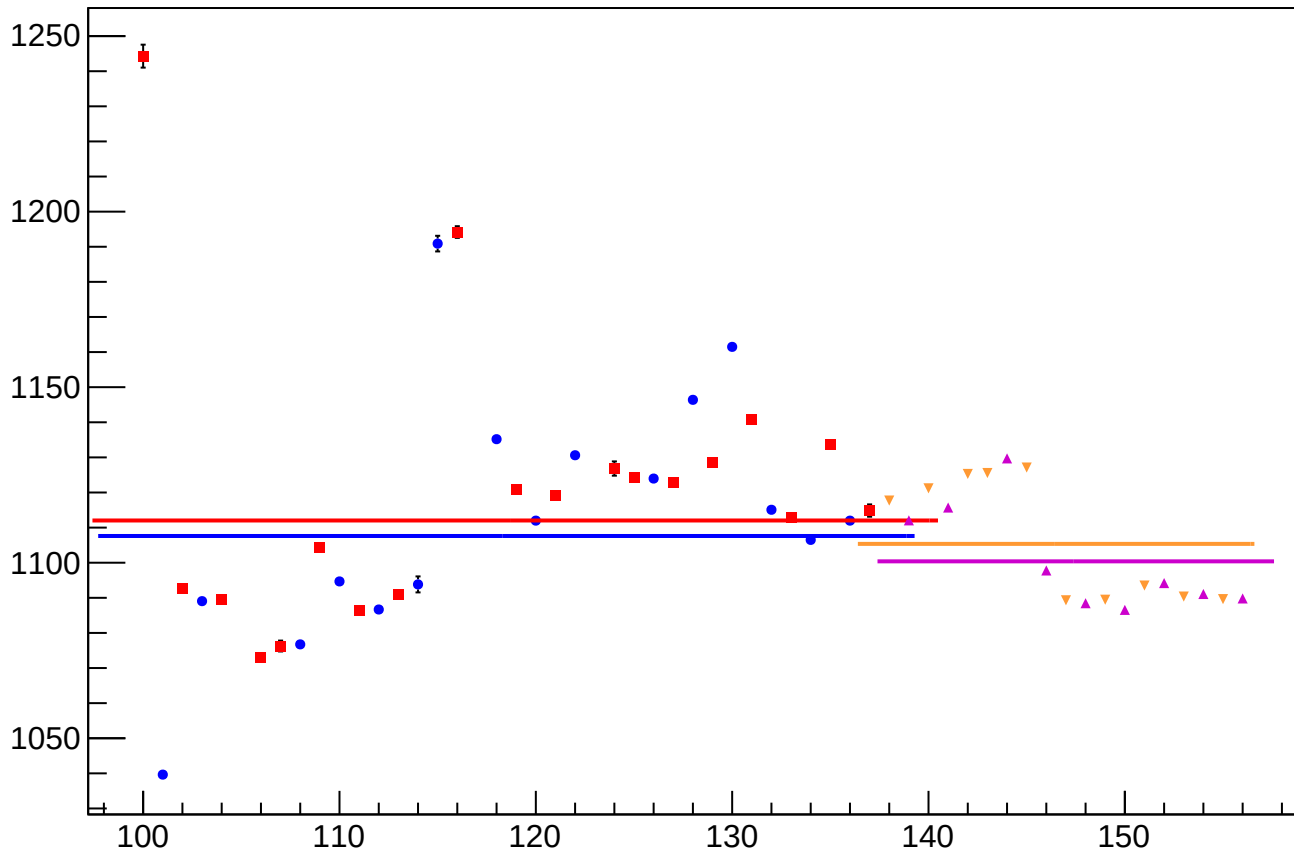
Right: 2431.678 $\pm$ 288.882 χ^2/NDF : 25.0/34

In: 2634.336 $\pm$ 284.217 χ^2/NDF : 26.2/24

Out: 2096.817 $\pm$ 282.761 χ^2/NDF : 22.1/28

All: 2364.197 $\pm$ 200.455 χ^2/NDF : 50.1/53

eigen_dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613 +/- 0.291 χ^2/NDF : 13220.7/15

Left Out: 1105.363 +/- 0.279 χ^2/NDF : 3506.4/9

Right Out: 1112.029 +/- 0.287 χ^2/NDF : 8653.5/18

Left In: 1100.389 +/- 0.278 χ^2/NDF : 2574.8/8

Left: 1102.867 +/- 0.197 χ^2/NDF : 6240.8/18

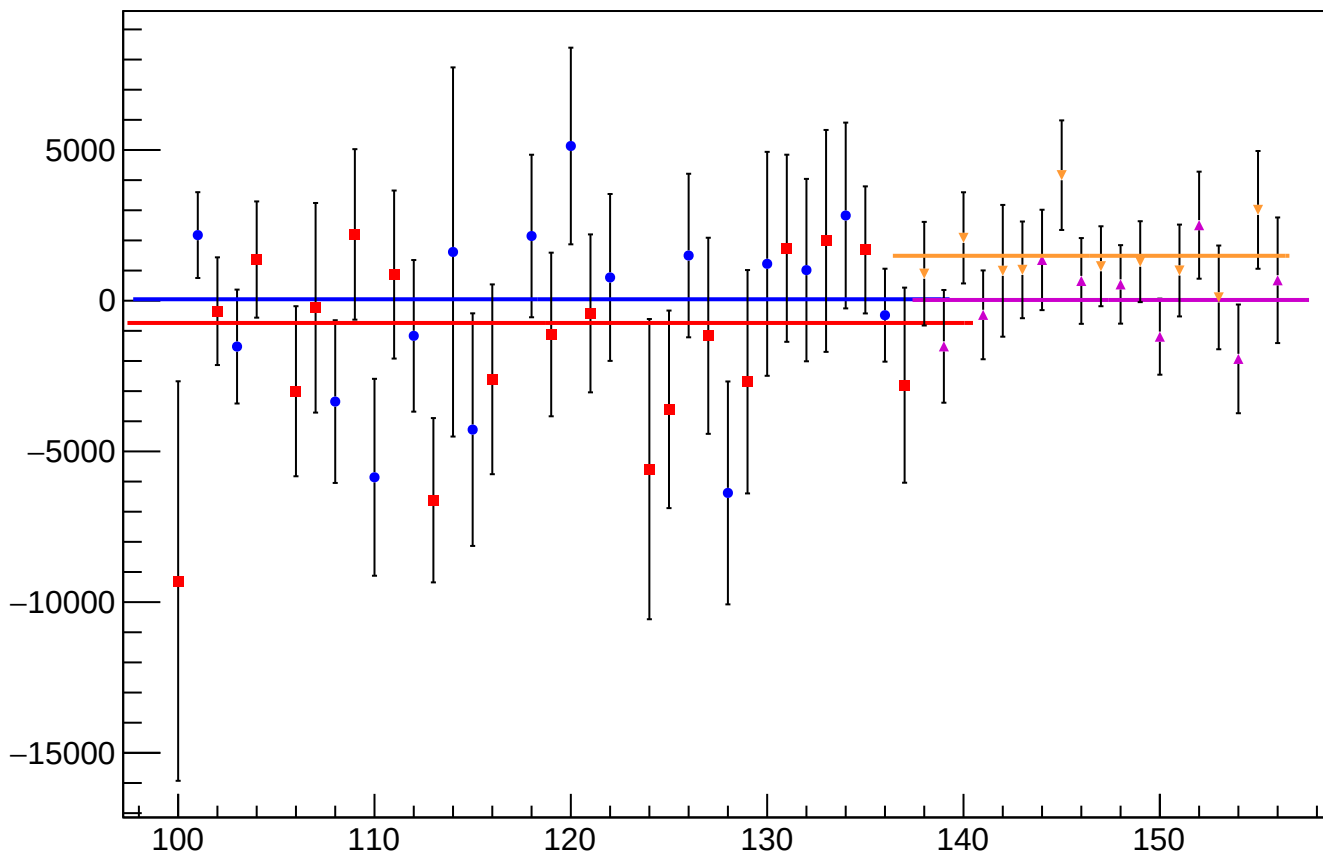
Right: 1109.853 +/- 0.204 χ^2/NDF : 21991.0/34

In: 1103.834 +/- 0.201 χ^2/NDF : 16117.9/24

Out: 1108.603 +/- 0.200 χ^2/NDF : 12437.5/28

All: 1106.231 +/- 0.142 χ^2/NDF : 28838.4/53

asym_usr_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.813+/-628.059 χ^2/NDF : 16.9/15

Left Out: 1489.894+/-510.910 χ^2/NDF : 4.0/9

Right Out: -738.188+/-647.795 χ^2/NDF : 14.9/18

Left In: 24.581+/-521.723 χ^2/NDF : 5.9/8

Left: 772.579+/-365.031 χ^2/NDF : 14.0/18

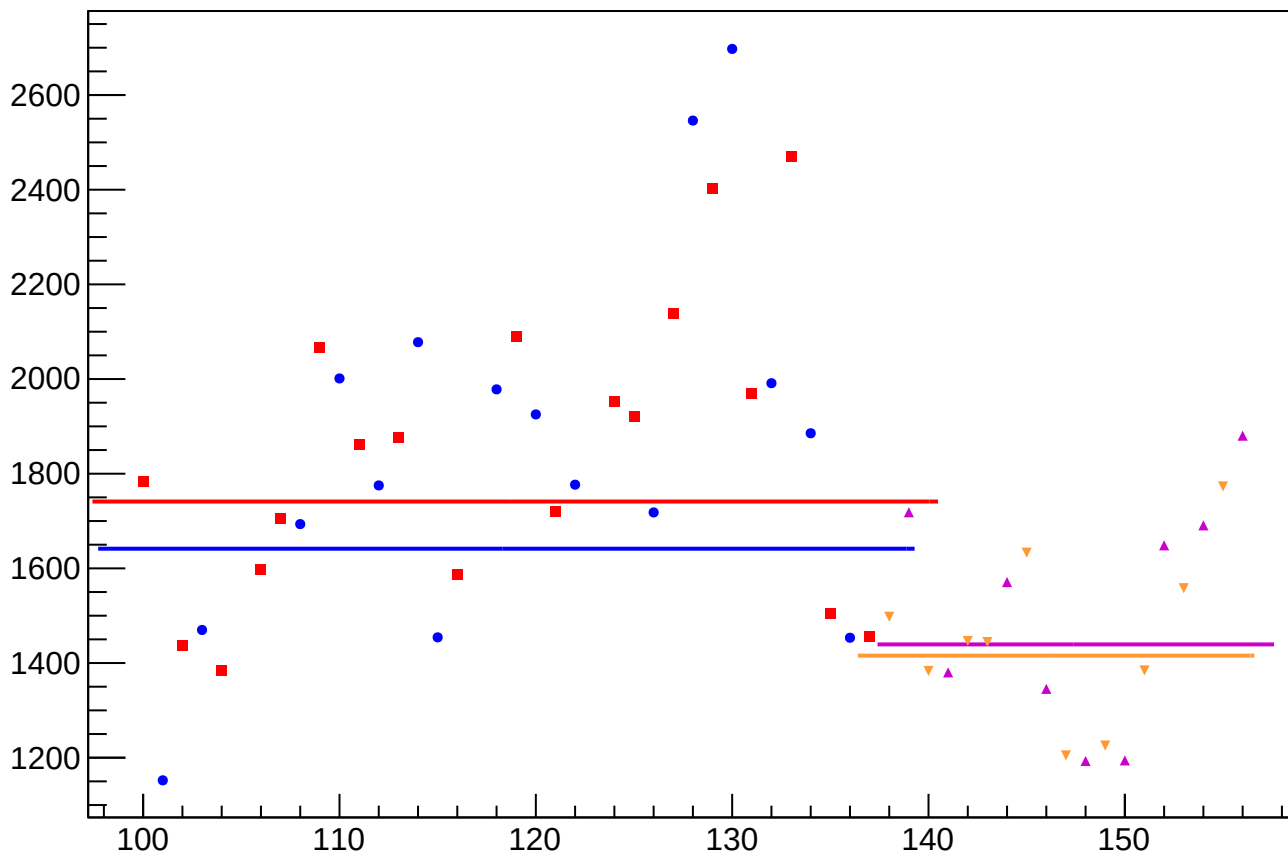
Right: -333.032+/-450.921 χ^2/NDF : 32.6/34

In: 34.066+/-401.320 χ^2/NDF : 22.8/24

Out: 635.446+/-401.157 χ^2/NDF : 26.3/28

All: 334.878+/-283.718 χ^2/NDF : 50.2/53

asym_usr_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.536 $\pm$ 0.444 χ^2/NDF : 701299.1/15

Left Out: 1415.657 $\pm$ 0.361 χ^2/NDF : 207307.8/9

Right Out: 1741.199 $\pm$ 0.458 χ^2/NDF : 438324.1/18

Left In: 1439.346 $\pm$ 0.369 χ^2/NDF : 372235.8/8

Left: 1427.254 $\pm$ 0.258 χ^2/NDF : 581648.4/18

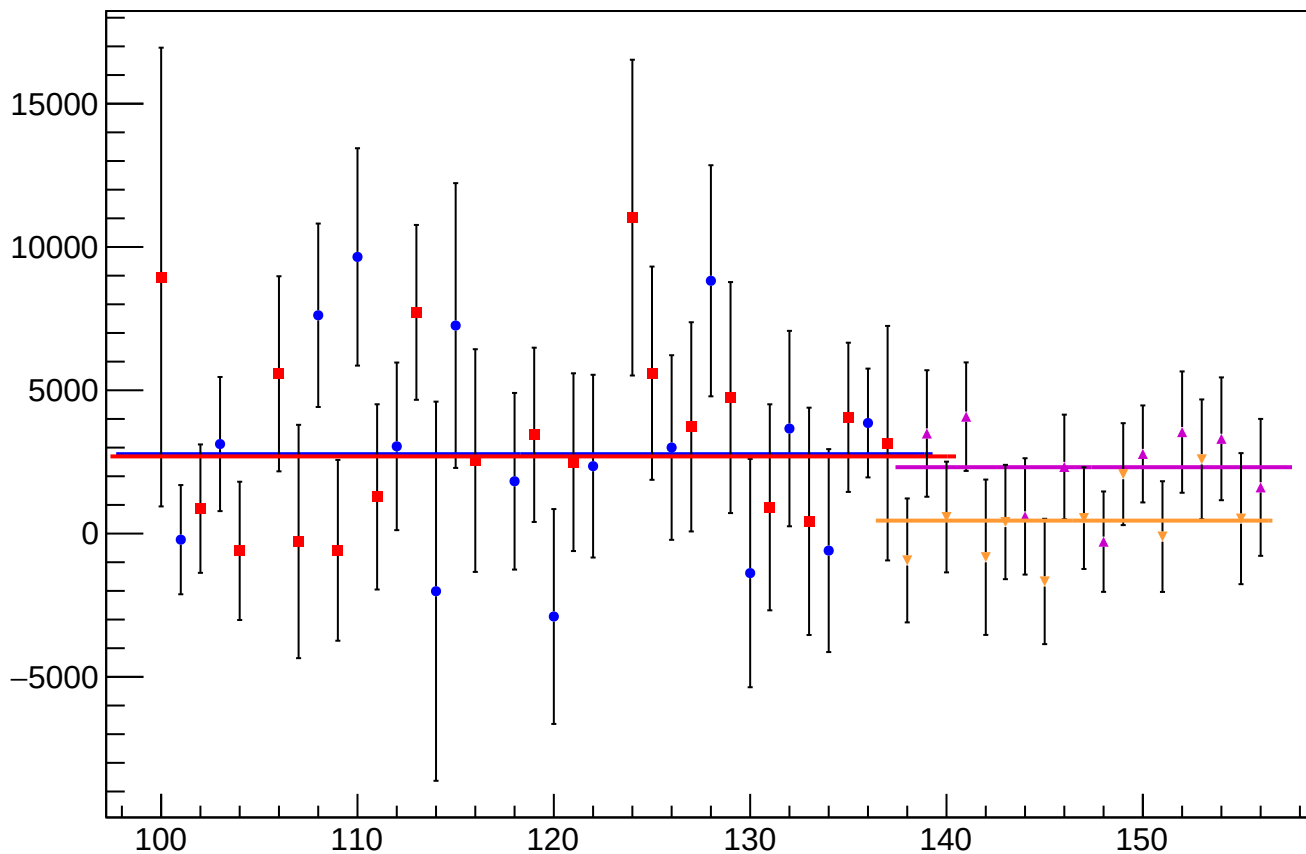
Right: 1689.826 $\pm$ 0.319 χ^2/NDF : 1164025.0/34

In: 1521.900 $\pm$ 0.284 χ^2/NDF : 1196179.2/24

Out: 1540.499 $\pm$ 0.284 χ^2/NDF : 957023.9/28

All: 1531.204 $\pm$ 0.201 χ^2/NDF : 2155351.9/53

asym_usr_mean vs Slug, Sign Corrected



Right In: 2769.952 $\pm$ 757.109 χ^2 /NDF: 16.4/15

Left Out: 452.208 $\pm$ 645.487 χ^2 /NDF: 3.5/9

Right Out: 2692.625 $\pm$ 765.754 χ^2 /NDF: 12.5/18

Left In: 2316.253 $\pm$ 656.790 χ^2 /NDF: 4.8/8

Left: 1368.052 $\pm$ 460.373 χ^2 /NDF: 12.4/18

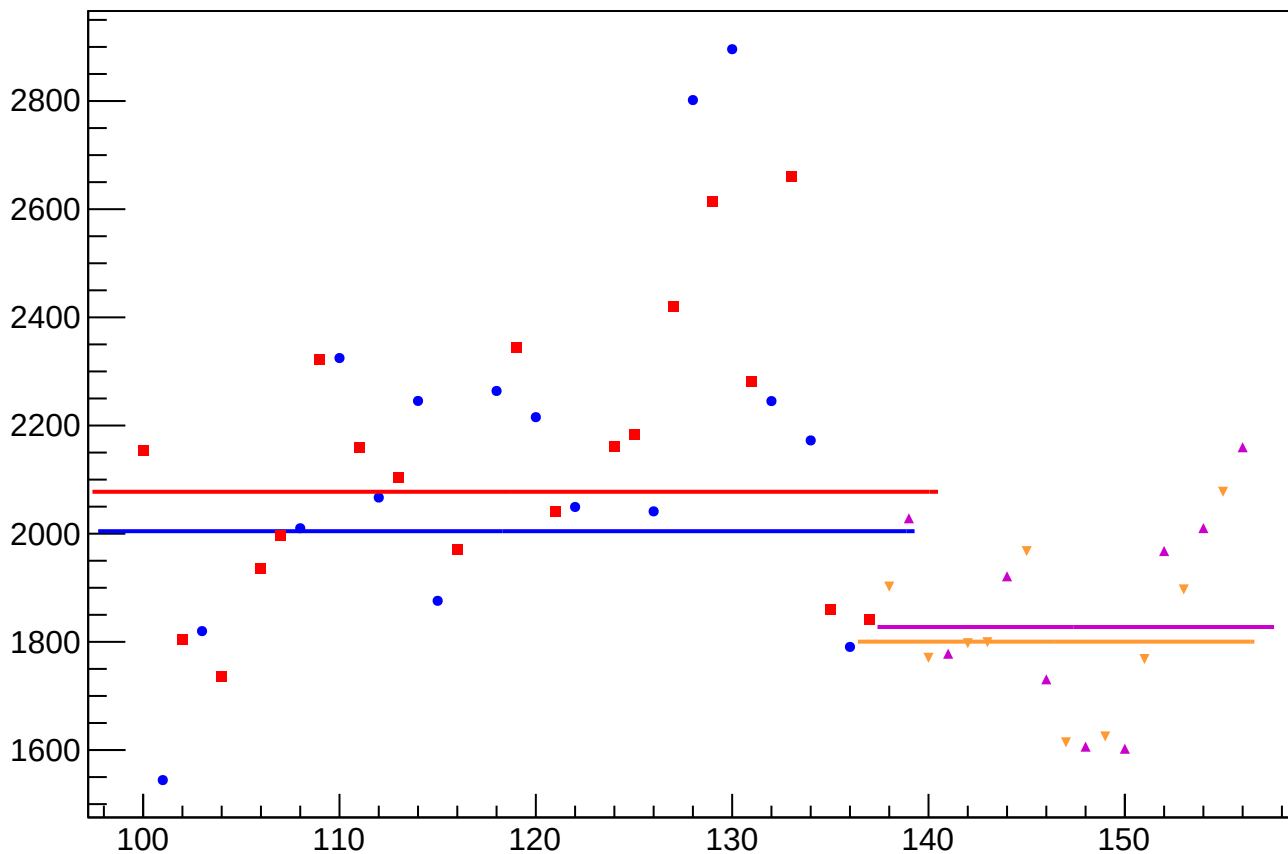
Right: 2731.727 $\pm$ 538.387 χ^2 /NDF: 29.0/34

In: 2511.073 $\pm$ 496.125 χ^2 /NDF: 21.4/24

Out: 1382.863 $\pm$ 493.536 χ^2 /NDF: 21.1/28

All: 1944.017 $\pm$ 349.895 χ^2 /NDF: 45.1/53

asym_usr_rms vs Slug, Sign Corrected



Right In: 2004.635 $\pm$ 0.535 χ^2 /NDF: 387567.3/15

Left Out: 1800.381 $\pm$ 0.456 χ^2 /NDF: 92277.8/9

Right Out: 2077.500 $\pm$ 0.541 χ^2 /NDF: 230482.0/18

Left In: 1827.476 $\pm$ 0.464 χ^2 /NDF: 157182.9/8

Left: 1813.694 $\pm$ 0.326 χ^2 /NDF: 251192.2/18

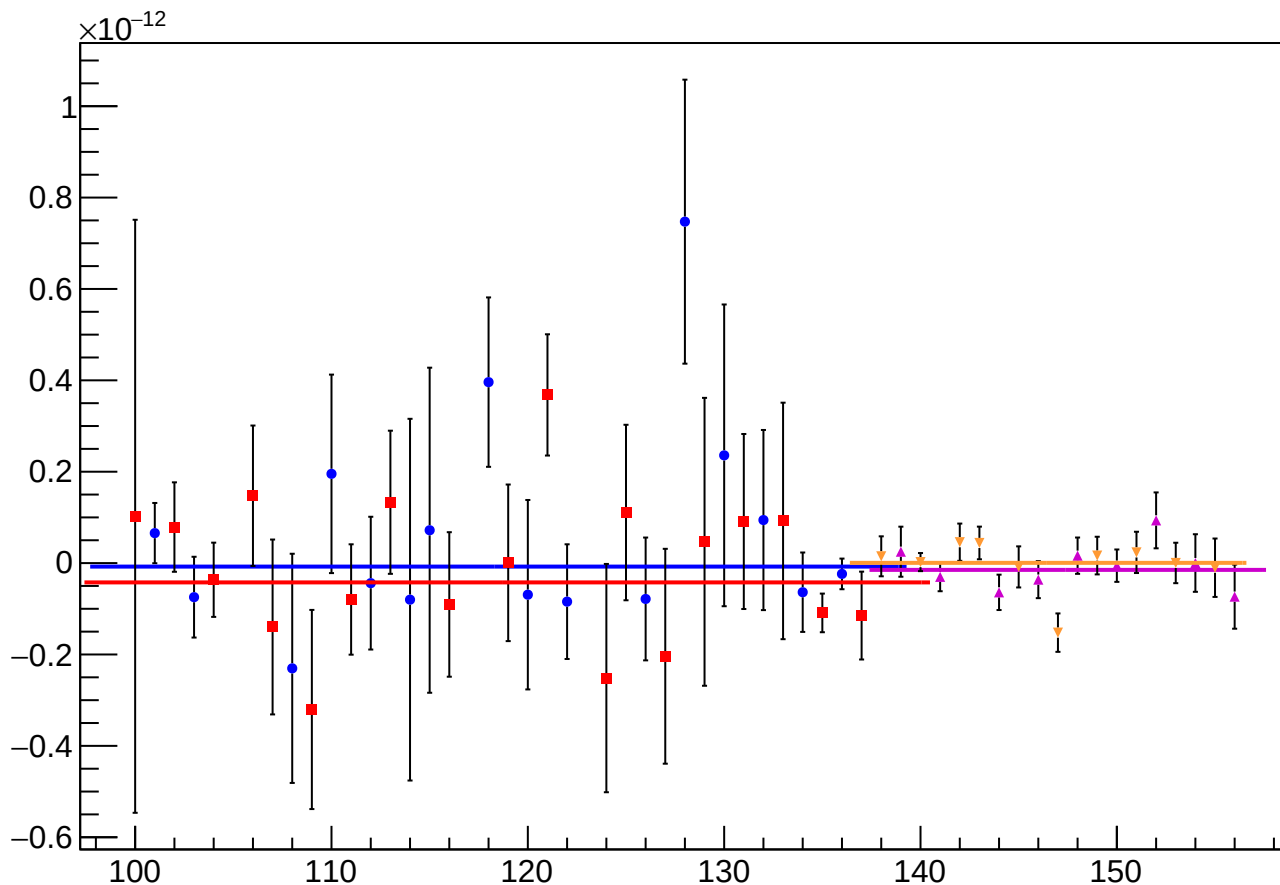
Right: 2040.654 $\pm$ 0.381 χ^2 /NDF: 627206.5/34

In: 1903.549 $\pm$ 0.351 χ^2 /NDF: 607234.0/24

Out: 1915.495 $\pm$ 0.349 χ^2 /NDF: 475885.4/28

All: 1909.553 $\pm$ 0.247 χ^2 /NDF: 1083702.2/53

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 : 16.5/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.8/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.2/8

Left: -0.000 ± 0.000 χ^2/NDF : 24.4/18

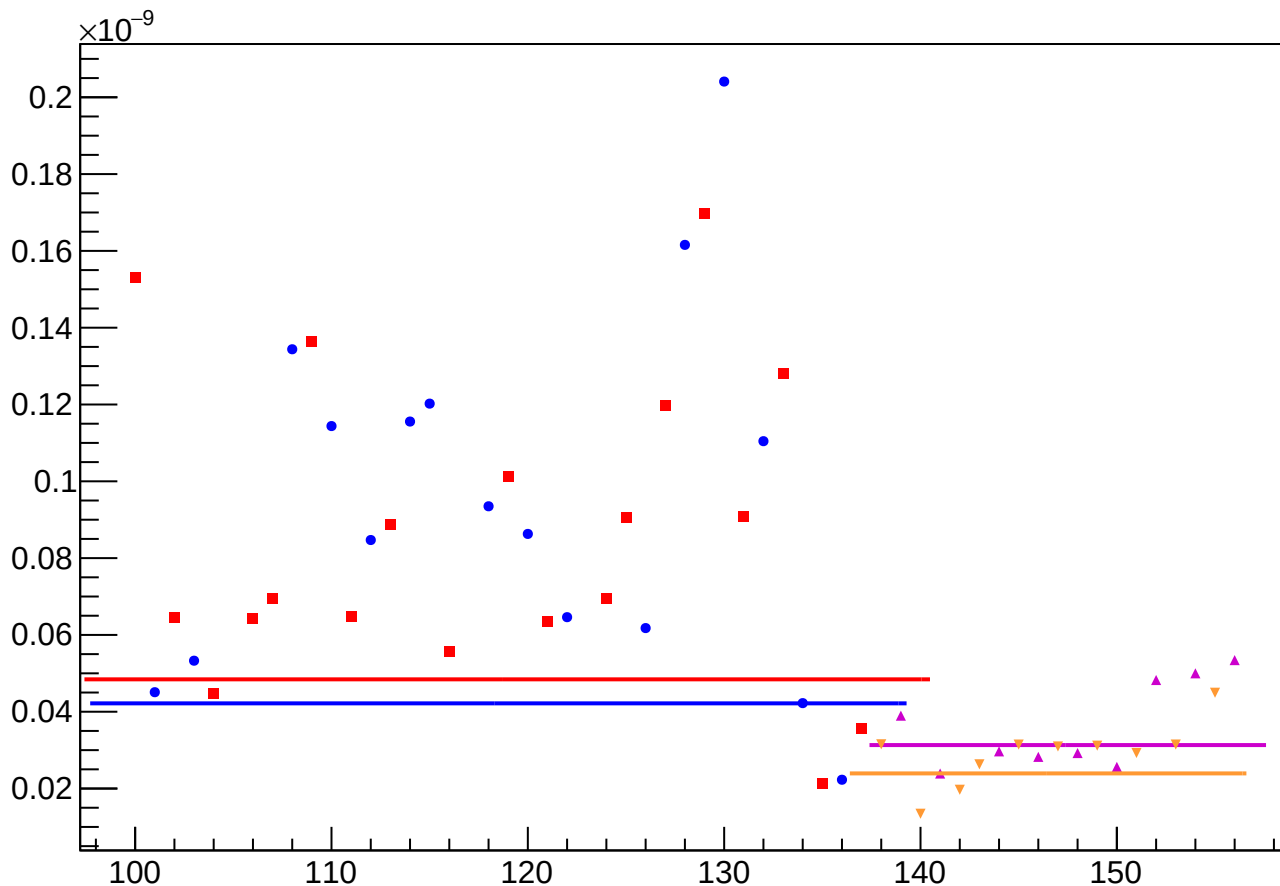
Right: -0.000 ± 0.000 χ^2/NDF : 39.1/34

In: -0.000 ± 0.000 χ^2/NDF : 23.7/24

Out: -0.000 ± 0.000 χ^2/NDF : 40.4/28

All: -0.000 ± 0.000 χ^2/NDF : 64.3/53

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 : 1127780.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2604483.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 749551.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2192436.1/18

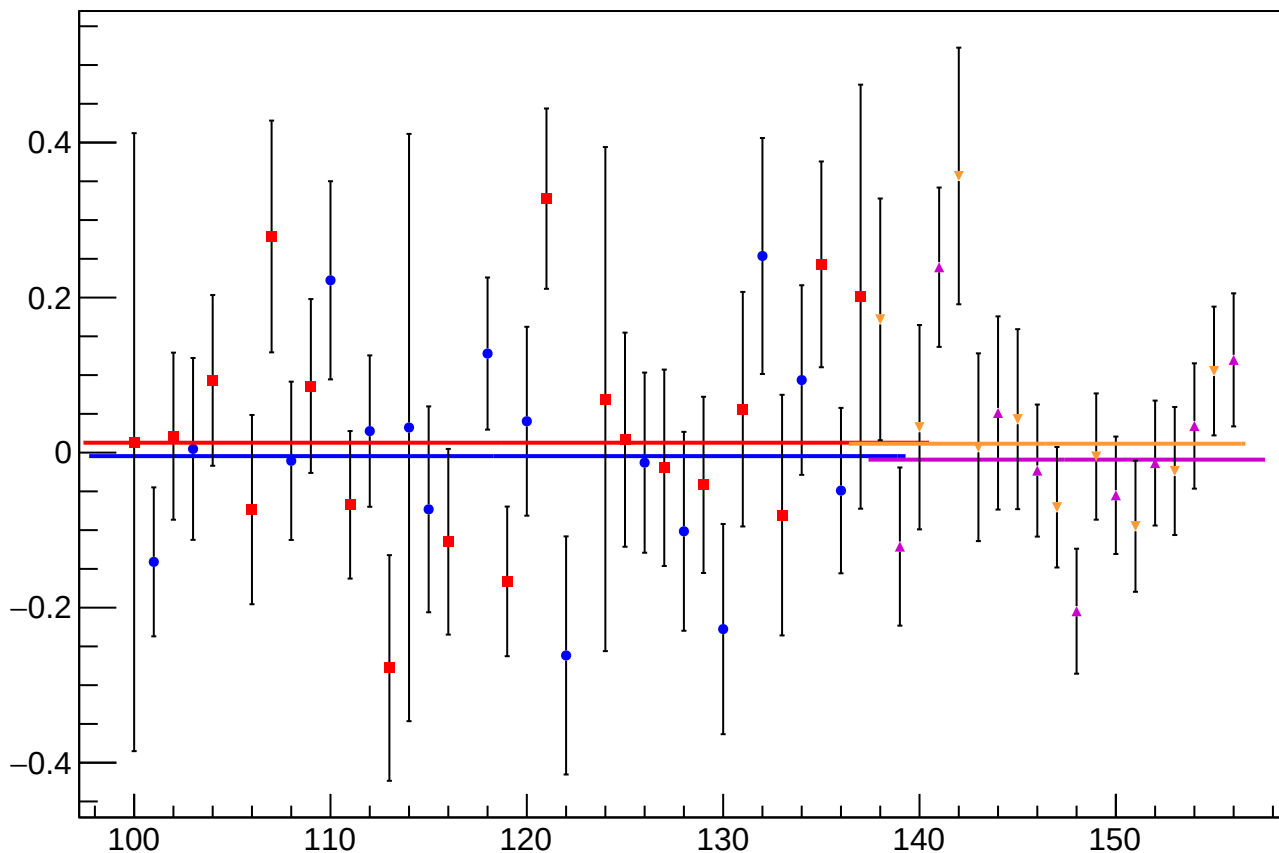
Right: 0.000+/-0.000 χ^2/NDF : 5597279.7/34

In: 0.000+/-0.000 χ^2/NDF : 3978305.2/24

Out: 0.000+/-0.000 χ^2/NDF : 5118249.8/28

All: 0.000+/-0.000 χ^2/NDF : 9398785.8/53

asym_usr_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.011 ± 0.031 χ^2/NDF : 9.7/9

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.009 ± 0.029 χ^2/NDF : 16.1/8

Left: 0.001 ± 0.021 χ^2/NDF : 26.0/18

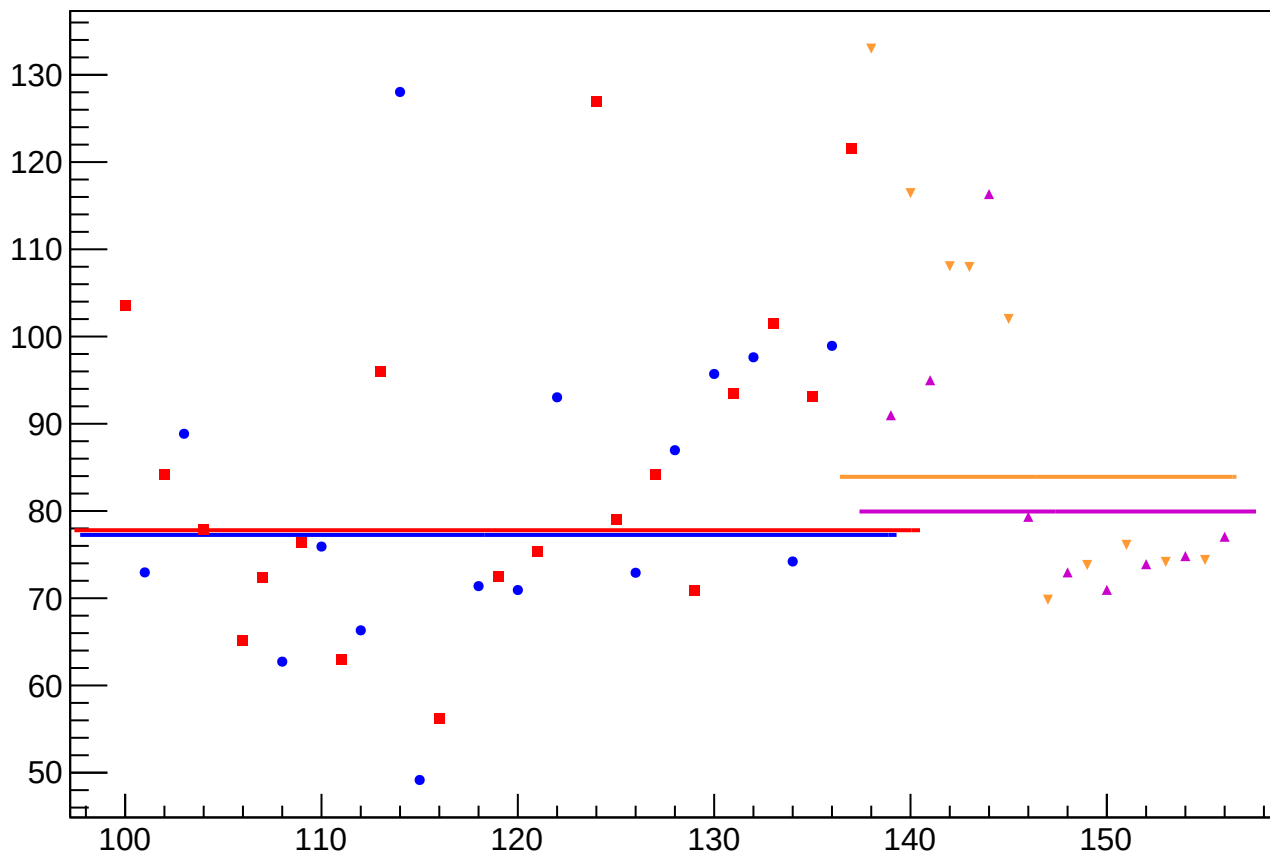
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.007 ± 0.021 χ^2/NDF : 33.4/24

Out: 0.012 ± 0.022 χ^2/NDF : 35.2/28

All: 0.002 ± 0.015 χ^2/NDF : 69.0/53

asym_usr_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.259 $\pm$ 0.021 χ^2/NDF : 419290.2/15

Left Out: 83.917 $\pm$ 0.022 χ^2/NDF : 657752.3/9

Right Out: 77.796 $\pm$ 0.021 χ^2/NDF : 396477.1/18

Left In: 79.943 $\pm$ 0.021 χ^2/NDF : 301549.3/8

Left: 81.804 $\pm$ 0.015 χ^2/NDF : 976514.6/18

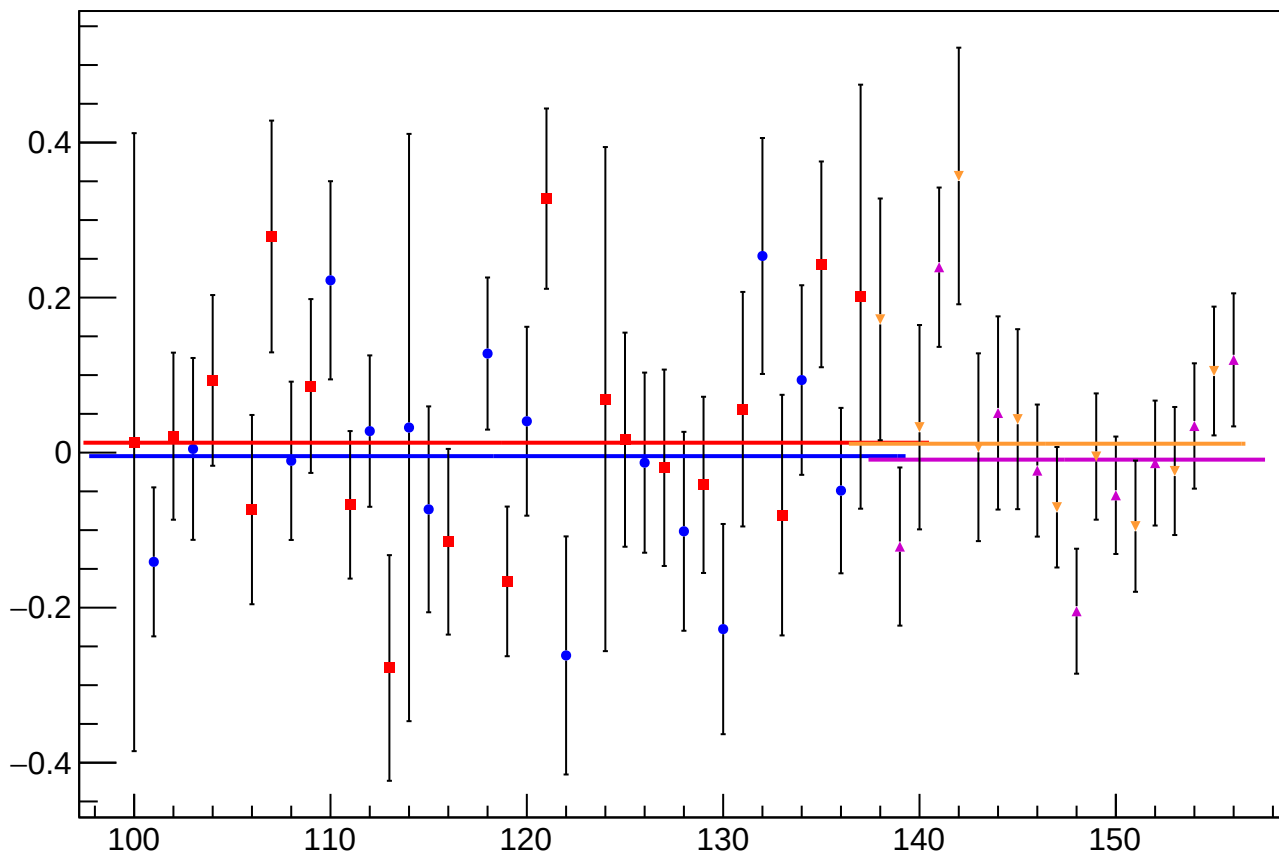
Right: 77.530 $\pm$ 0.015 χ^2/NDF : 816090.7/34

In: 78.634 $\pm$ 0.015 χ^2/NDF : 729017.7/24

Out: 80.705 $\pm$ 0.015 χ^2/NDF : 1094530.3/28

All: 79.643 $\pm$ 0.011 χ^2/NDF : 1833034.5/53

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: 0.011 ± 0.031 $\chi^2/\text{NDF}: 9.7/9$

Right Out: 0.013 ± 0.030 $\chi^2/\text{NDF}: 25.5/18$

Left In: -0.009 ± 0.029 $\chi^2/\text{NDF}: 16.1/8$

Left: 0.001 ± 0.021 $\chi^2/\text{NDF}: 26.0/18$

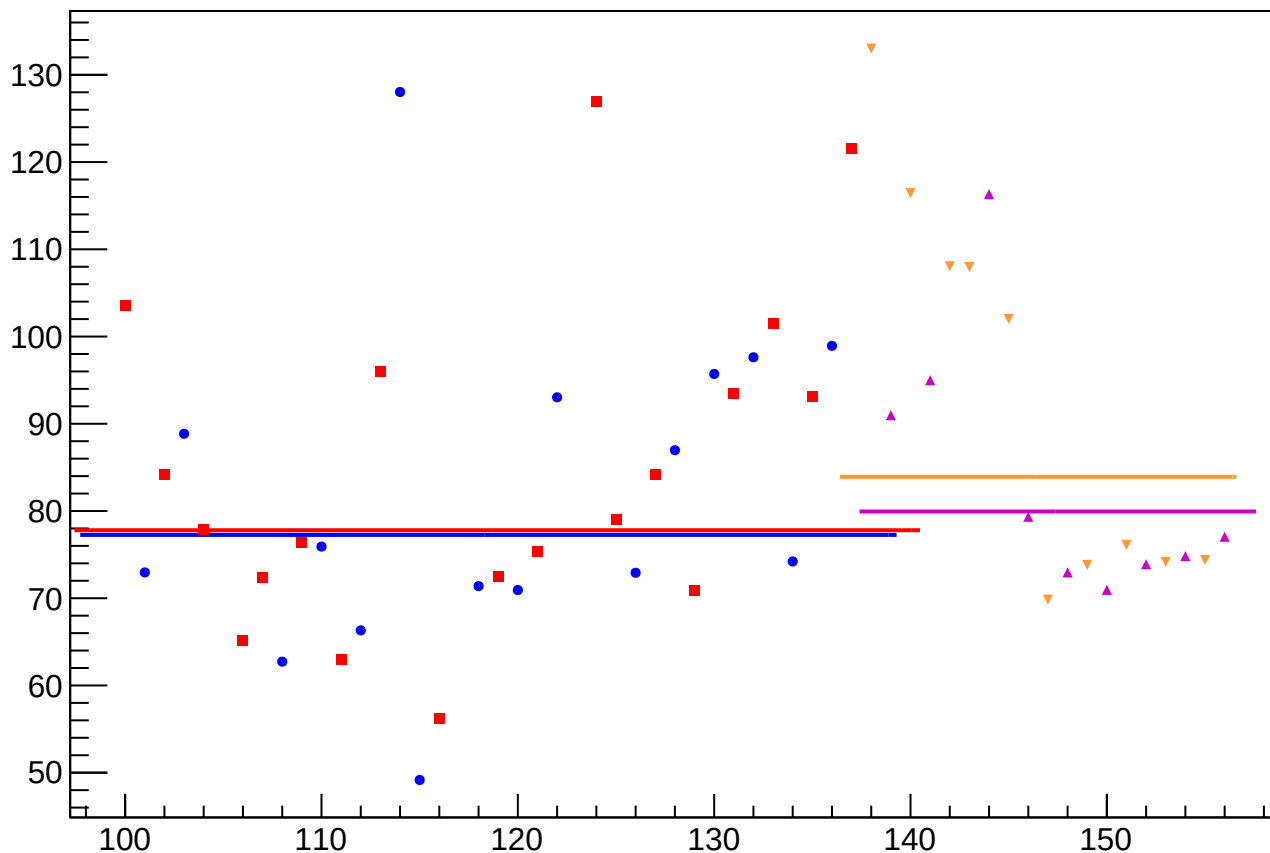
Right: 0.004 ± 0.021 $\chi^2/\text{NDF}: 42.9/34$

In: -0.007 ± 0.021 $\chi^2/\text{NDF}: 33.4/24$

Out: 0.012 ± 0.022 $\chi^2/\text{NDF}: 35.2/28$

All: 0.002 ± 0.015 $\chi^2/\text{NDF}: 69.0/53$

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: 83.917 $\pm$ 0.022 χ^2/NDF : 657752.3/9

Right Out: 77.796 $\pm$ 0.021 χ^2/NDF : 396477.1/18

Left In: 79.943 $\pm$ 0.021 χ^2/NDF : 301549.3/8

Left: 81.804 $\pm$ 0.015 χ^2/NDF : 976514.6/18

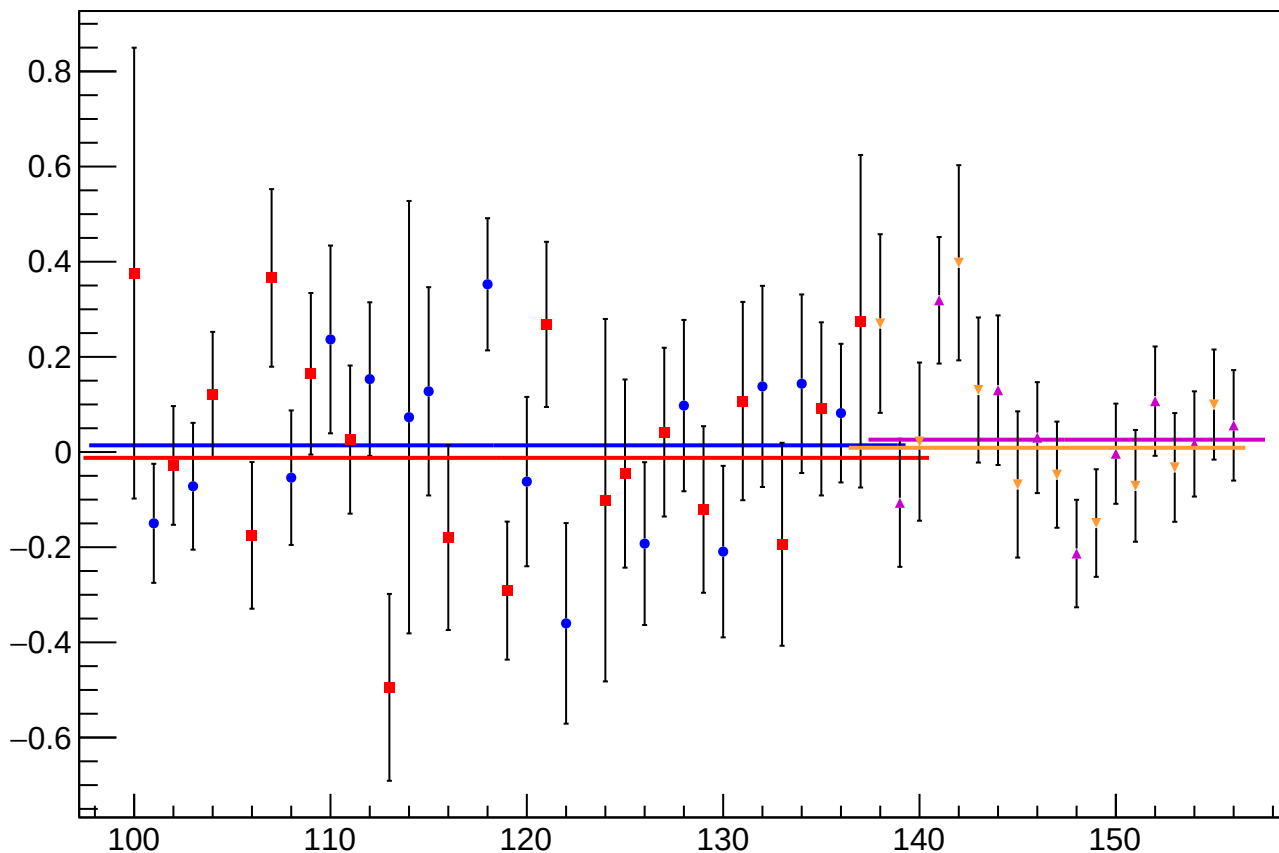
Right: 77.530 $\pm$ 0.015 χ^2/NDF : 816090.7/34

In: 78.634 $\pm$ 0.015 χ^2/NDF : 729017.7/24

Out: 80.705 $\pm$ 0.015 χ^2/NDF : 1094530.3/28

All: 79.643 $\pm$ 0.011 χ^2/NDF : 1833034.5/53

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: 0.009 $\pm$ 0.042 χ^2 /NDF:9.8/9

Right Out: -0.012 $\pm$ 0.041 χ^2 /NDF: 23.8/18

Left In: 0.026 $\pm$ 0.040 χ^2 /NDF:11.4/8

Left: 0.018 $\pm$ 0.029 χ^2 /NDF: 21.3/18

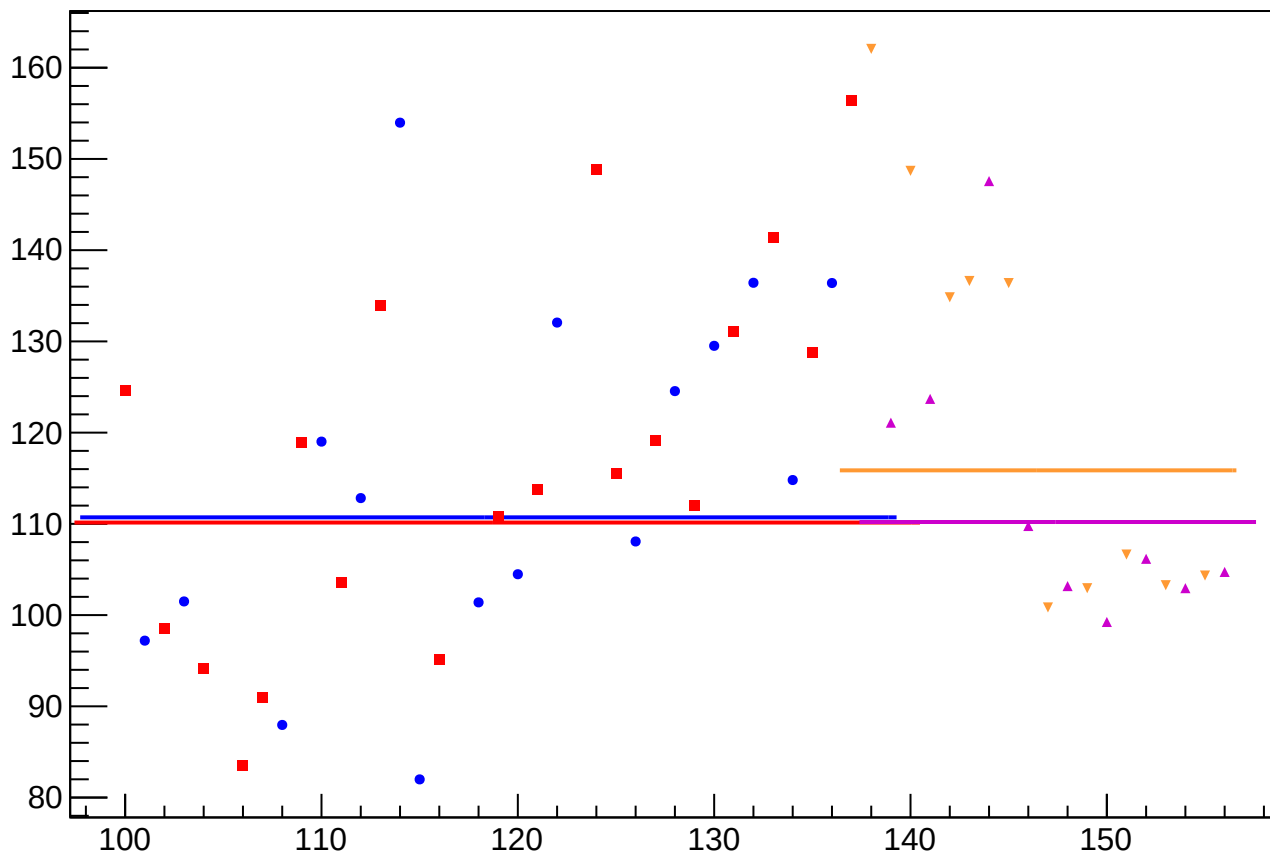
Right: 0.001 $\pm$ 0.030 χ^2 /NDF: 42.1/34

In: 0.020 $\pm$ 0.029 χ^2 /NDF:29.6/24

Out: -0.002 $\pm$ 0.030 χ^2 /NDF:33.7/28

All: 0.009 $\pm$ 0.021 χ^2 /NDF: 63.6/53

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: 115.865 $\pm$ 0.030 χ^2 /NDF: 407937.6/9

Right Out: 110.145 $\pm$ 0.029 χ^2 /NDF: 326726.5/18

Left In: 110.204 $\pm$ 0.028 χ^2 /NDF: 191575.7/8

Left: 112.867 $\pm$ 0.021 χ^2 /NDF: 618389.4/18

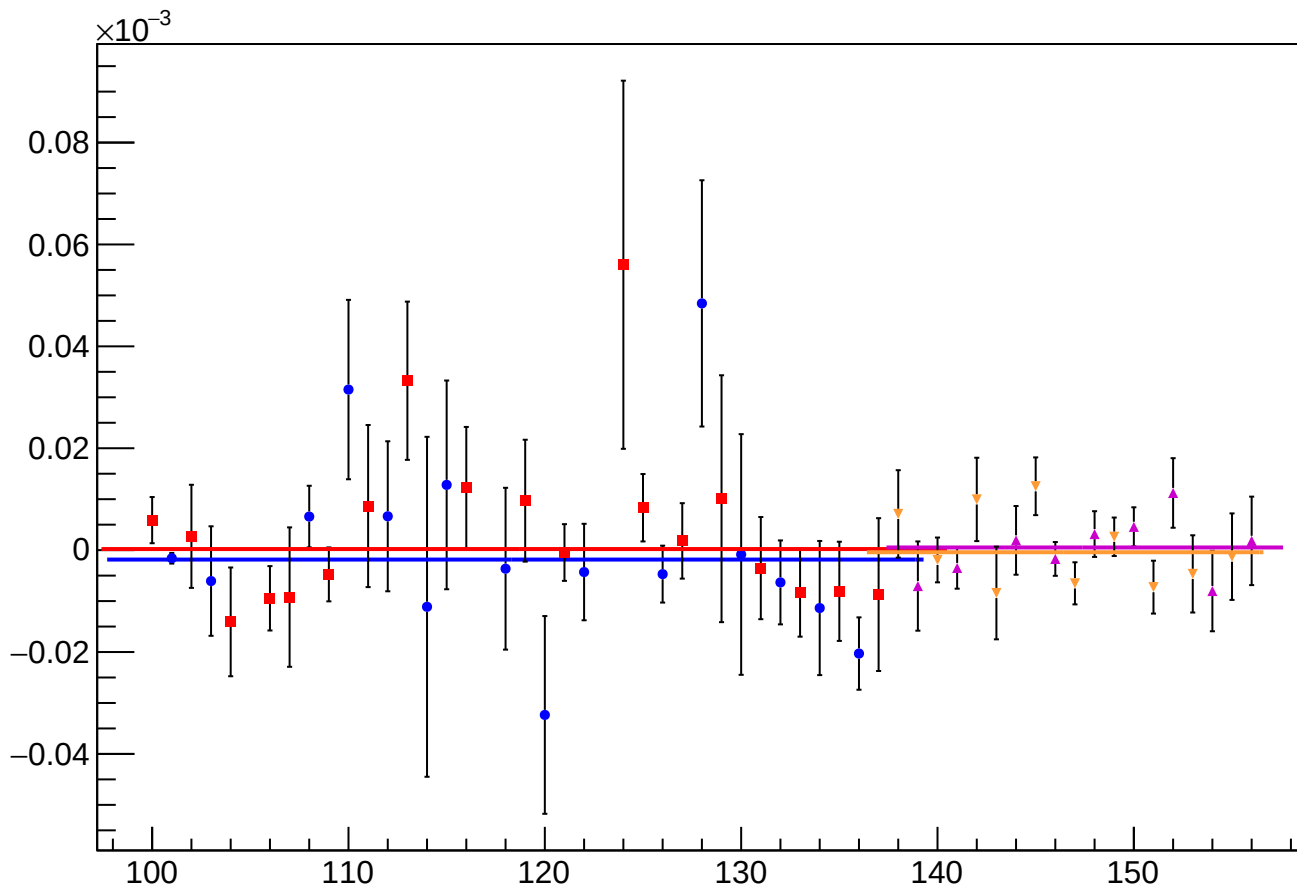
Right: 110.423 $\pm$ 0.021 χ^2 /NDF: 626885.1/34

In: 110.445 $\pm$ 0.021 χ^2 /NDF: 491702.5/24

Out: 112.930 $\pm$ 0.021 χ^2 /NDF: 753337.8/28

All: 111.664 $\pm$ 0.015 χ^2 /NDF: 1252226.1/53

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 : 13.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 7.3/8

Left: 0.000+/-0.000 χ^2/NDF : 20.9/18

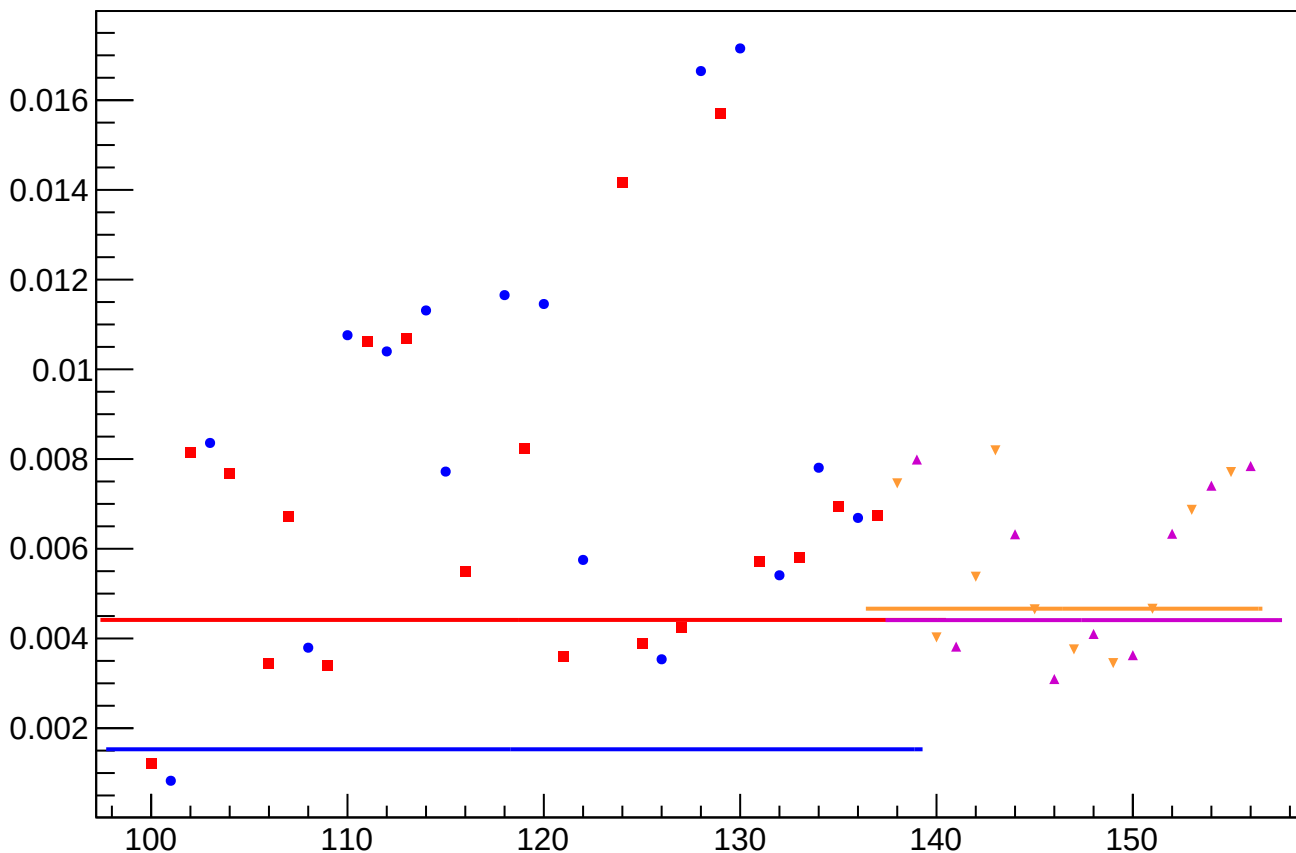
Right: -0.000+/-0.000 χ^2/NDF : 42.2/34

In: -0.000+/-0.000 χ^2/NDF : 30.2/24

Out: -0.000+/-0.000 χ^2/NDF : 33.3/28

All: -0.000+/-0.000 χ^2/NDF : 64.1/53

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 :1300548.4/9

Right Out: 0.004+/-0.000 χ^2/NDF : 3388069.5/18

Left In: 0.004+/-0.000 χ^2/NDF :1703830.3/8

Left: 0.005+/-0.000 χ^2/NDF : 3026259.9/18

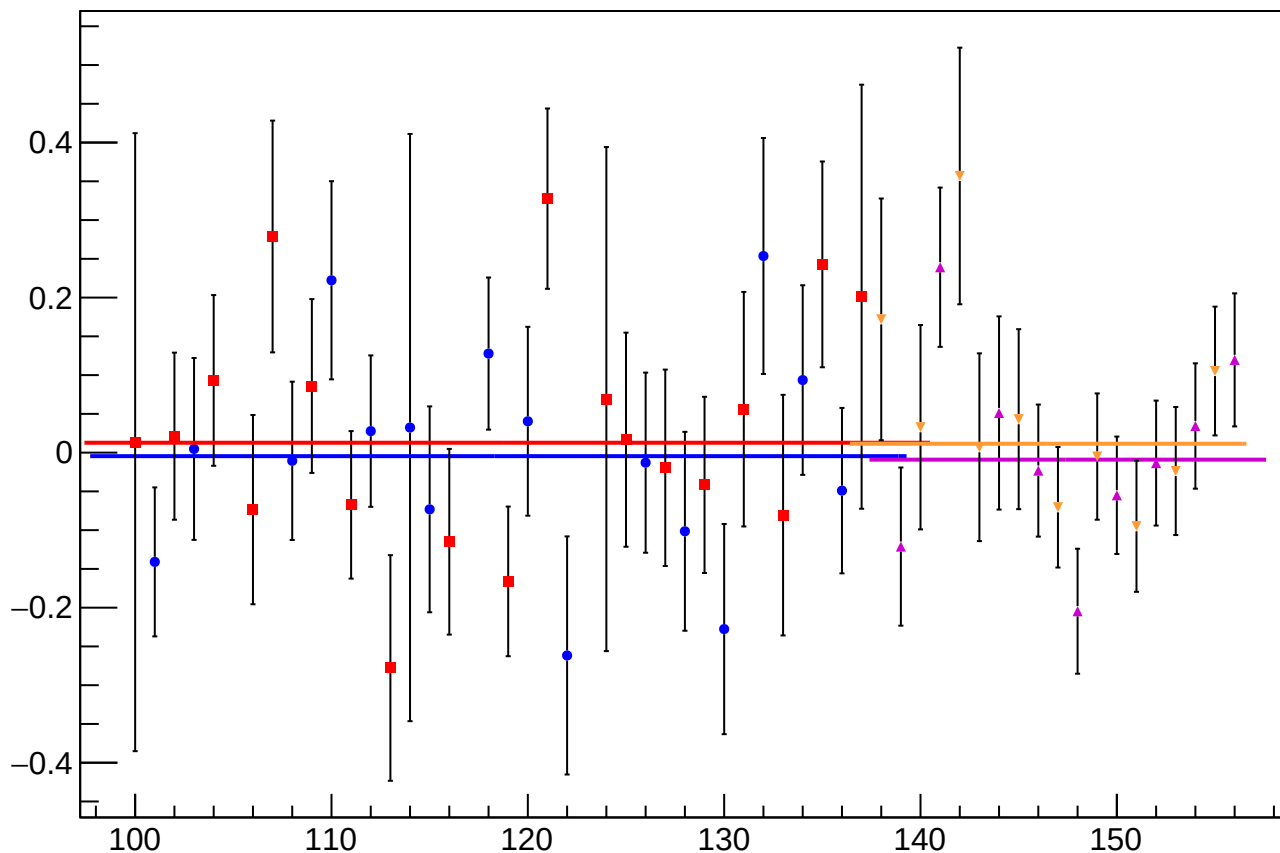
Right: 0.002+/-0.000 χ^2/NDF : 16183584.5/34

In: 0.002+/-0.000 χ^2/NDF :15333038.7/24

Out: 0.005+/-0.000 χ^2/NDF :4707000.8/28

All: 0.003+/-0.000 χ^2/NDF : 24427580.0/53

asym_usr_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.011 ± 0.031 χ^2/NDF : 9.7/9

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.009 ± 0.029 χ^2/NDF : 16.1/8

Left: 0.001 ± 0.021 χ^2/NDF : 26.0/18

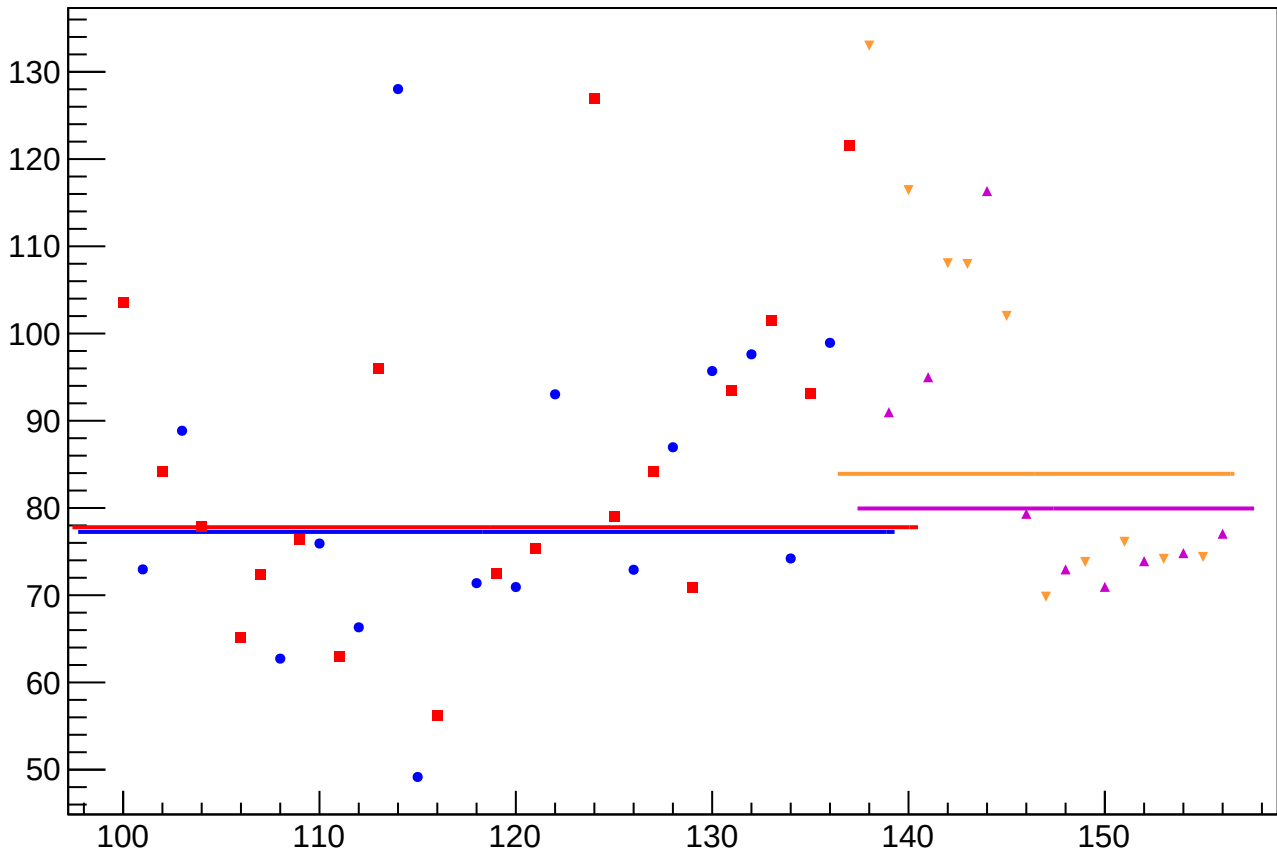
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.007 ± 0.021 χ^2/NDF : 33.4/24

Out: 0.012 ± 0.022 χ^2/NDF : 35.2/28

All: 0.002 ± 0.015 χ^2/NDF : 69.0/53

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: 83.917 $\pm$ 0.022 χ^2/NDF : 657759.2/9

Right Out: 77.795 $\pm$ 0.021 χ^2/NDF : 396473.9/18

Left In: 79.943 $\pm$ 0.021 χ^2/NDF : 301552.6/8

Left: 81.804 $\pm$ 0.015 χ^2/NDF : 976523.5/18

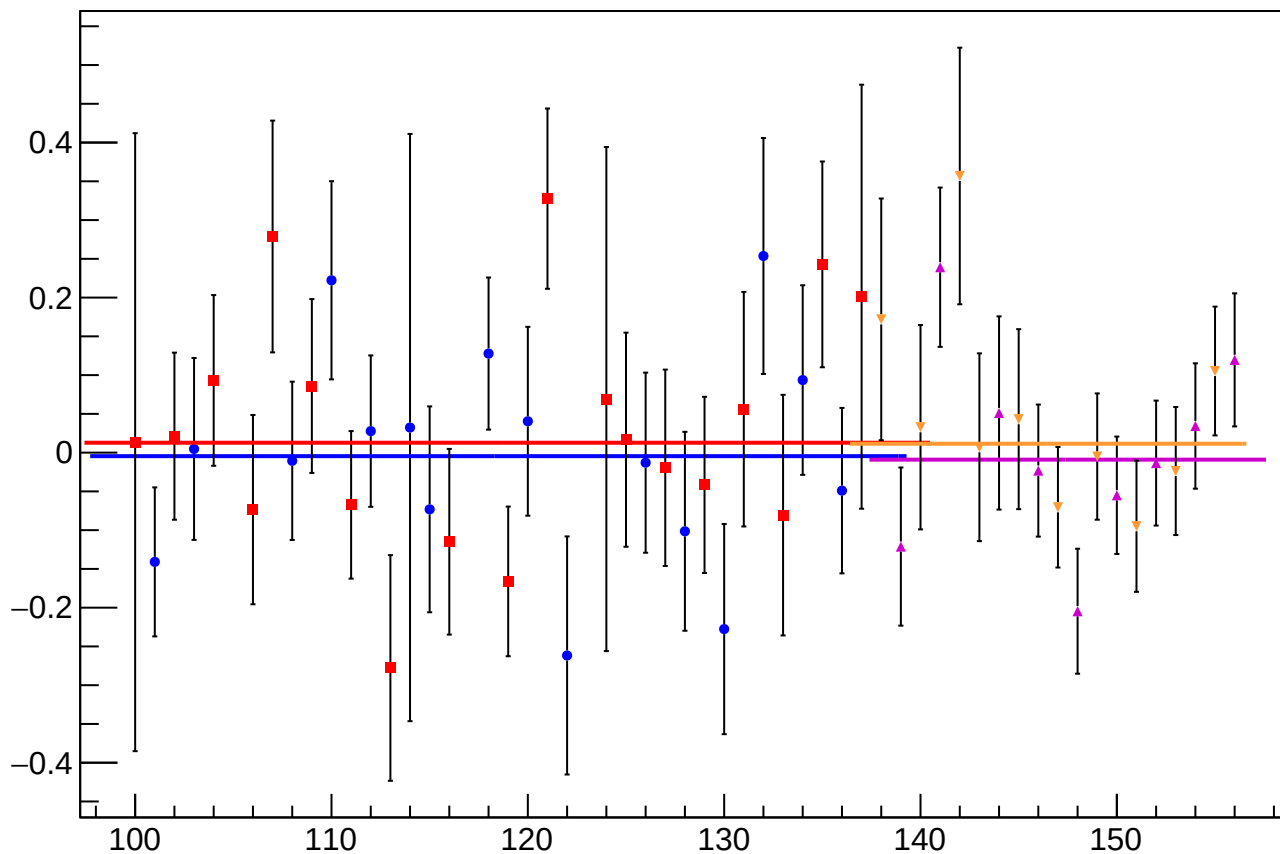
Right: 77.529 $\pm$ 0.015 χ^2/NDF : 816074.1/34

In: 78.634 $\pm$ 0.015 χ^2/NDF : 729019.3/24

Out: 80.704 $\pm$ 0.015 χ^2/NDF : 1094558.0/28

All: 79.642 $\pm$ 0.011 χ^2/NDF : 1833062.3/53

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.011 ± 0.031 χ^2/NDF : 9.7/9

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.009 ± 0.029 χ^2/NDF : 16.1/8

Left: 0.001 ± 0.021 χ^2/NDF : 26.0/18

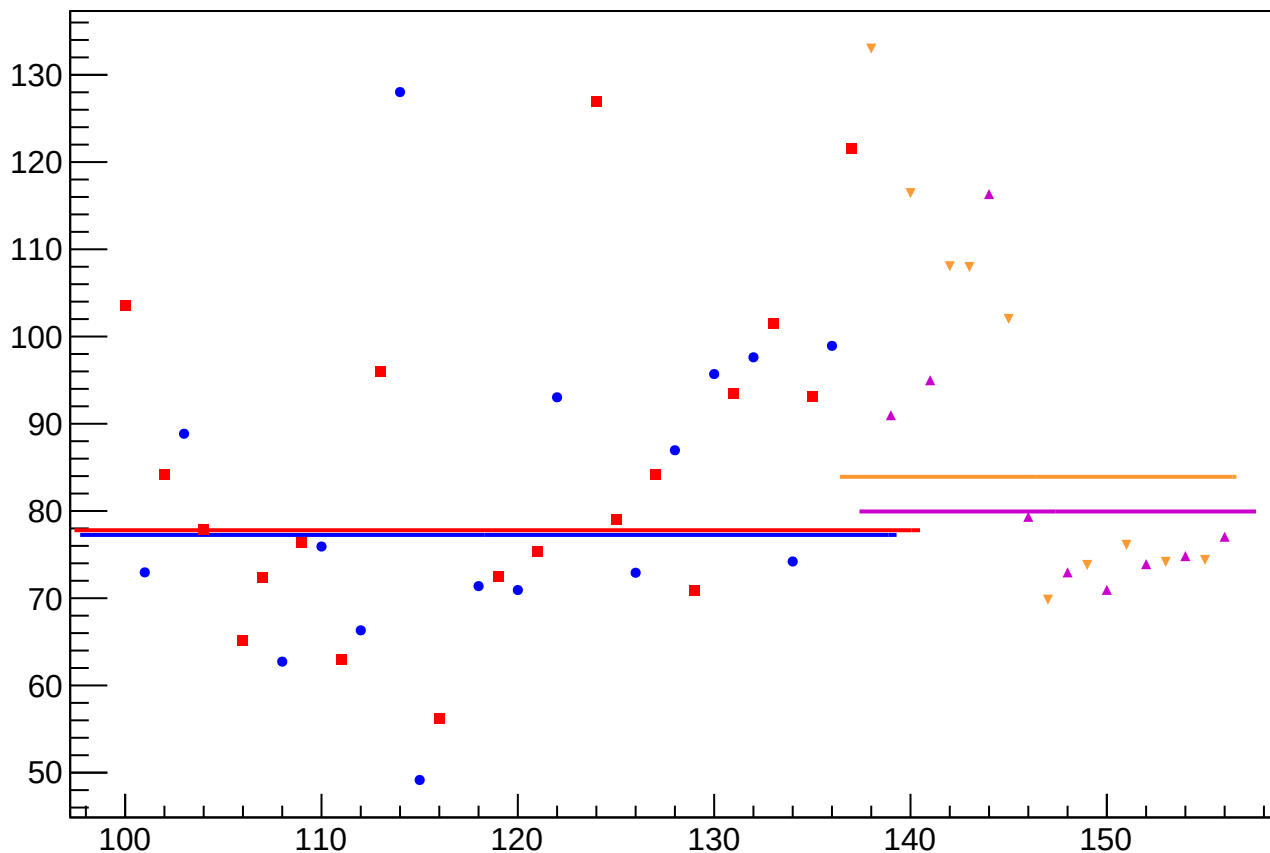
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.007 ± 0.021 χ^2/NDF : 33.4/24

Out: 0.012 ± 0.022 χ^2/NDF : 35.2/28

All: 0.002 ± 0.015 χ^2/NDF : 69.0/53

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: 83.917 $\pm$ 0.022 χ^2 /NDF: 657759.2/9

Right Out: 77.795 $\pm$ 0.021 χ^2 /NDF: 396473.9/18

Left In: 79.943 $\pm$ 0.021 χ^2 /NDF: 301552.6/8

Left: 81.804 $\pm$ 0.015 χ^2 /NDF: 976523.5/18

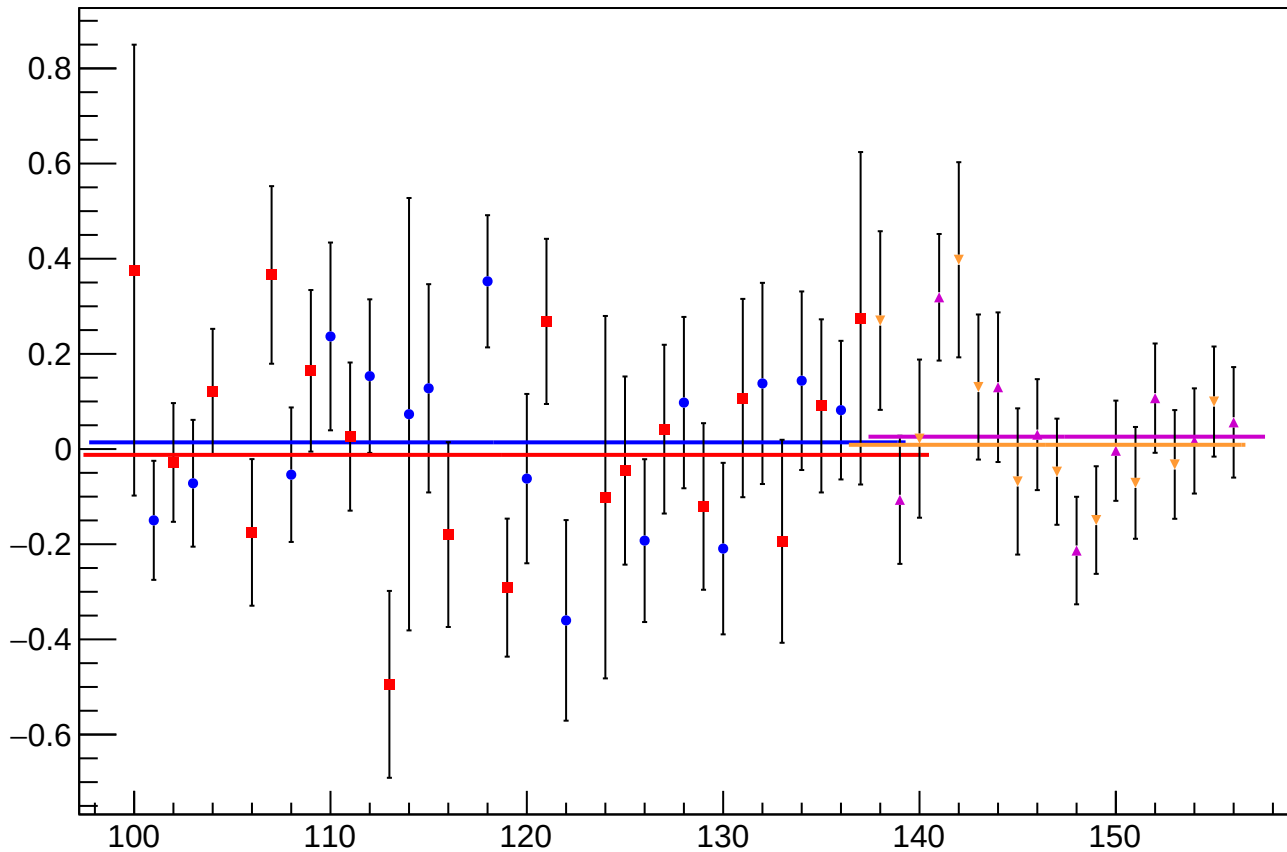
Right: 77.529 $\pm$ 0.015 χ^2 /NDF: 816074.1/34

In: 78.634 $\pm$ 0.015 χ^2 /NDF: 729019.3/24

Out: 80.704 $\pm$ 0.015 χ^2 /NDF: 1094558.0/28

All: 79.642 $\pm$ 0.011 χ^2 /NDF: 1833062.3/53

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 ± 0.042 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 0.009 ± 0.042 $\chi^2/\text{NDF}: 9.8/9$

Right Out: -0.012 ± 0.041 $\chi^2/\text{NDF}: 23.8/18$

Left In: 0.026 ± 0.040 $\chi^2/\text{NDF}: 11.4/8$

Left: 0.018 ± 0.029 $\chi^2/\text{NDF}: 21.3/18$

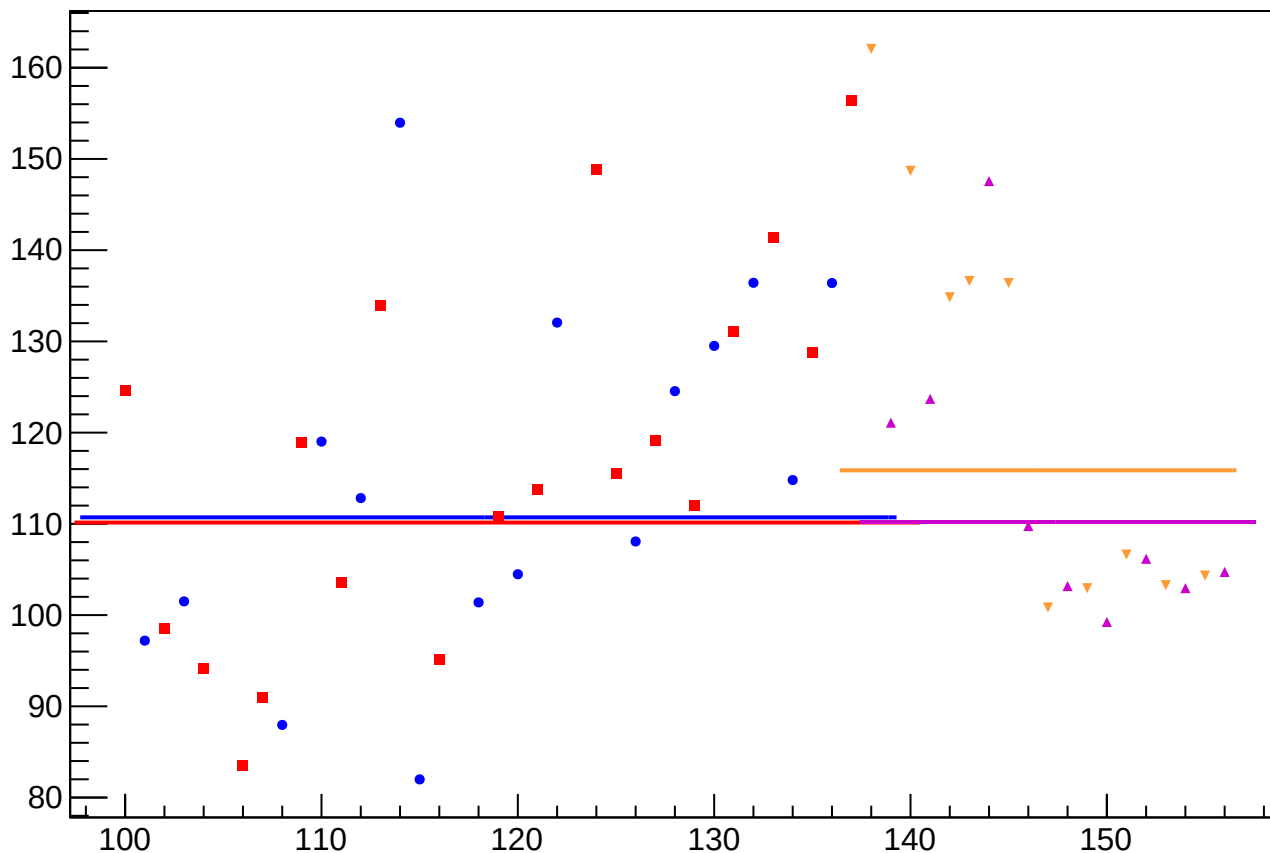
Right: 0.001 ± 0.030 $\chi^2/\text{NDF}: 42.1/34$

In: 0.020 ± 0.029 $\chi^2/\text{NDF}: 29.6/24$

Out: -0.002 ± 0.030 $\chi^2/\text{NDF}: 33.7/28$

All: 0.009 ± 0.021 $\chi^2/\text{NDF}: 63.6/53$

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: 115.865+/-0.030 χ^2/NDF :407939.2/9

Right Out: 110.144+/-0.029 χ^2/NDF : 326696.7/18

Left In: 110.204+/-0.028 χ^2/NDF :191578.2/8

Left: 112.868+/-0.021 χ^2/NDF : 618392.6/18

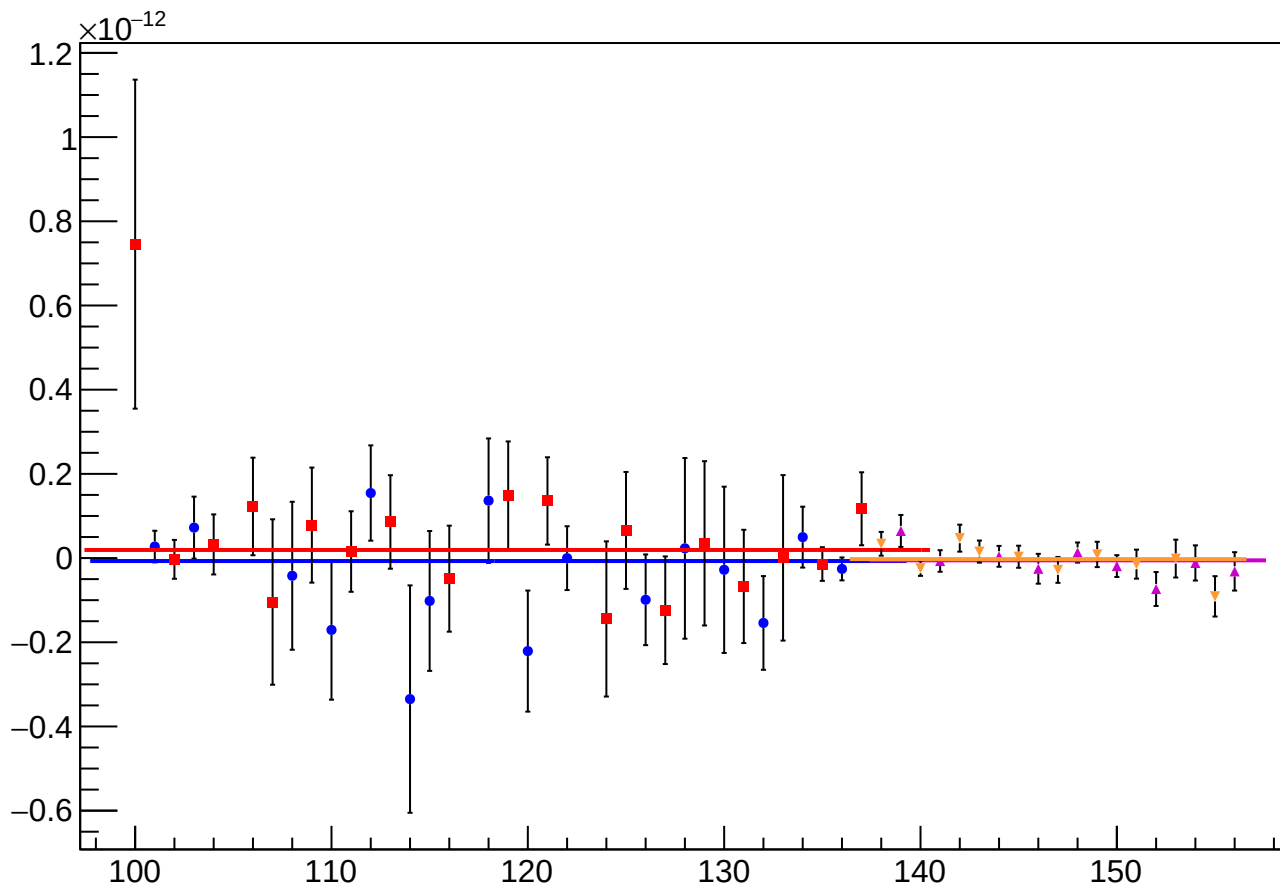
Right: 110.422+/-0.021 χ^2/NDF : 626830.6/34

In: 110.445+/-0.021 χ^2/NDF :491679.7/24

Out: 112.930+/-0.021 χ^2/NDF :753315.6/28

All: 111.664+/-0.015 χ^2/NDF : 1252180.8/53

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:10.4/9

Right Out: 0.000+/-0.000 χ^2 /NDF: 12.6/18

Left In: -0.000+/-0.000 χ^2 /NDF:7.9/8

Left: -0.000+/-0.000 χ^2 /NDF: 18.4/18

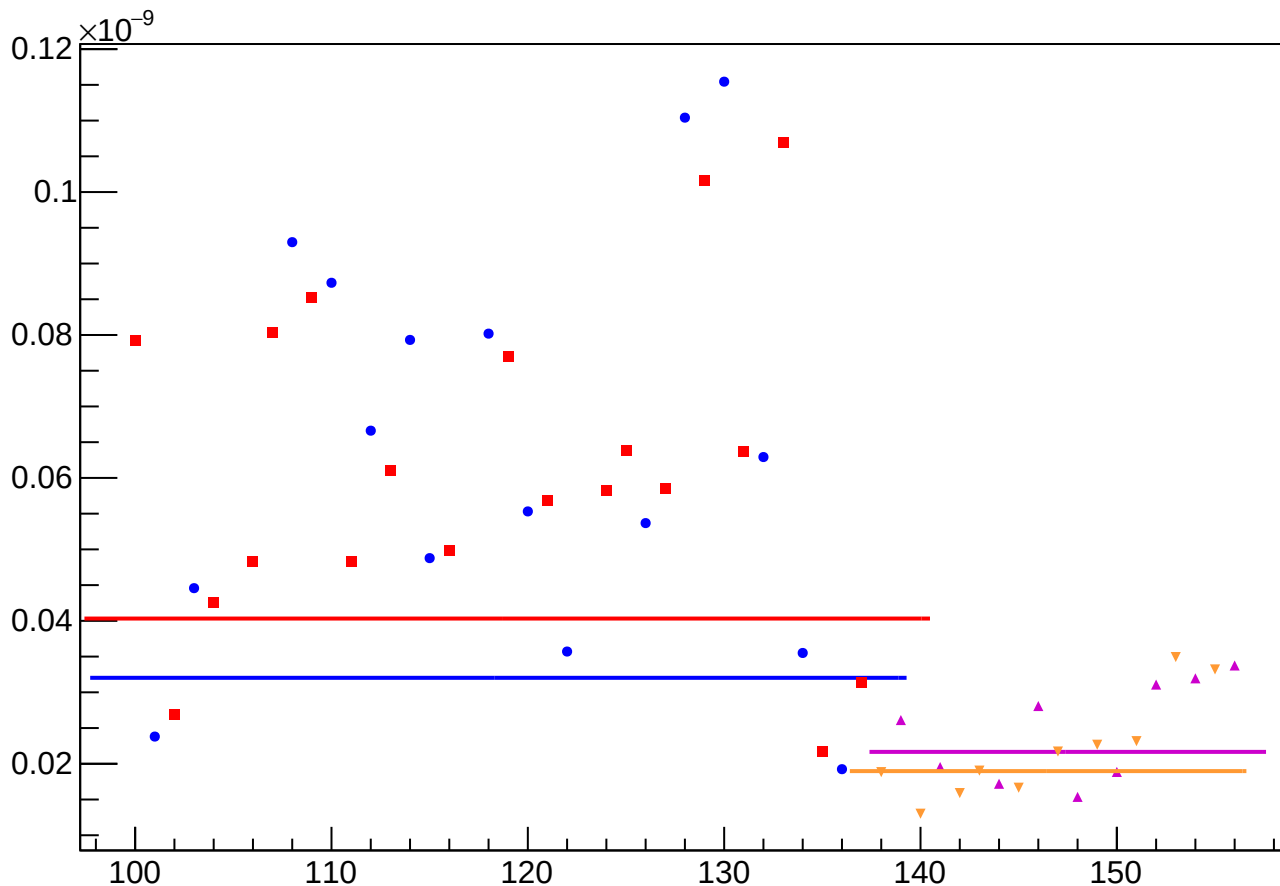
Right: 0.000+/-0.000 χ^2 /NDF: 27.1/34

In: -0.000+/-0.000 χ^2 /NDF:21.6/24

Out: 0.000+/-0.000 χ^2 /NDF:23.9/28

All: -0.000+/-0.000 χ^2 /NDF: 45.7/53

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 : 753910.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1866332.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 705391.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1536654.0/18

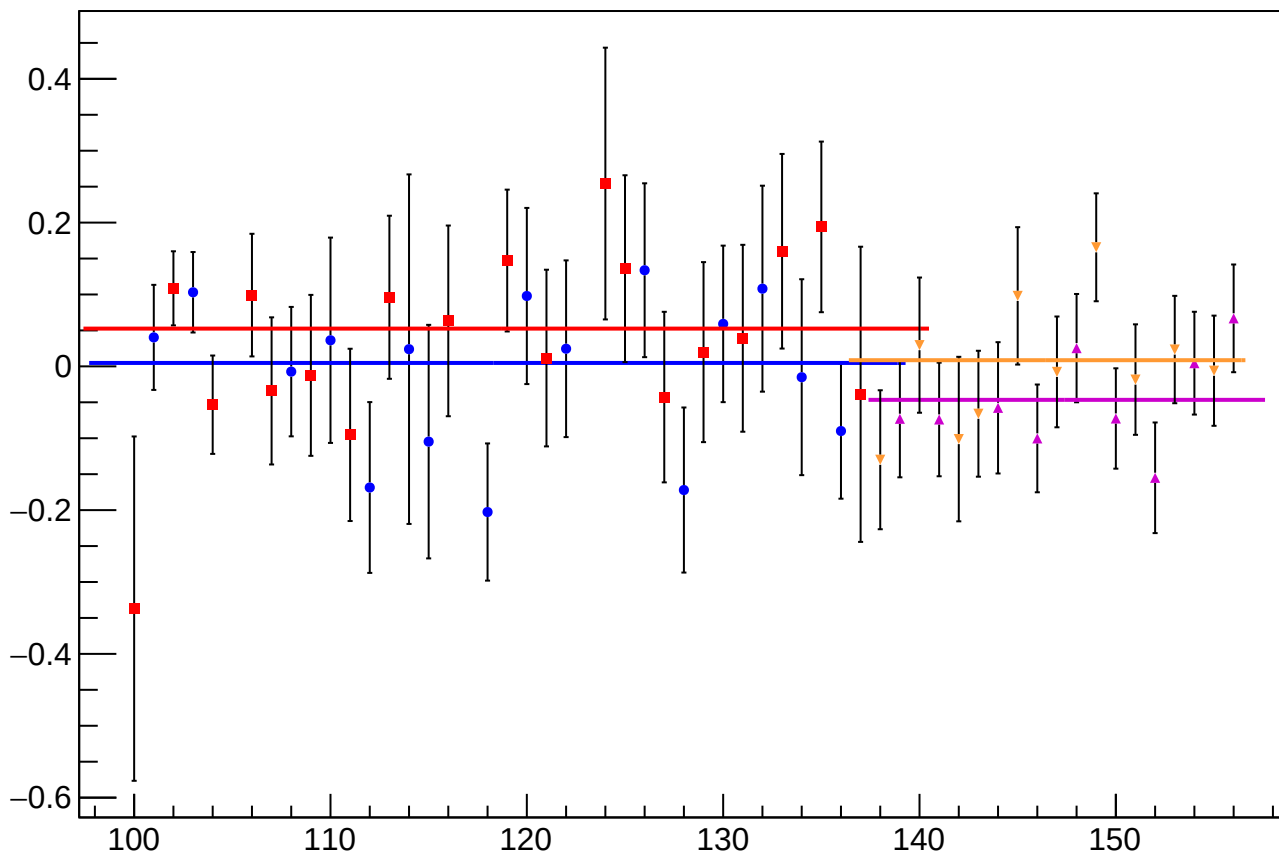
Right: 0.000+/-0.000 χ^2/NDF : 4504924.2/34

In: 0.000+/-0.000 χ^2/NDF : 3669424.5/24

Out: 0.000+/-0.000 χ^2/NDF : 4344548.0/28

All: 0.000+/-0.000 χ^2/NDF : 8062809.6/53

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: 0.009 $\pm$ 0.027 χ^2 /NDF: 9.2/9

Right Out: 0.053 $\pm$ 0.024 χ^2 /NDF: 14.8/18

Left In: -0.047 $\pm$ 0.026 χ^2 /NDF: 6.6/8

Left: -0.020 $\pm$ 0.018 χ^2 /NDF: 18.1/18

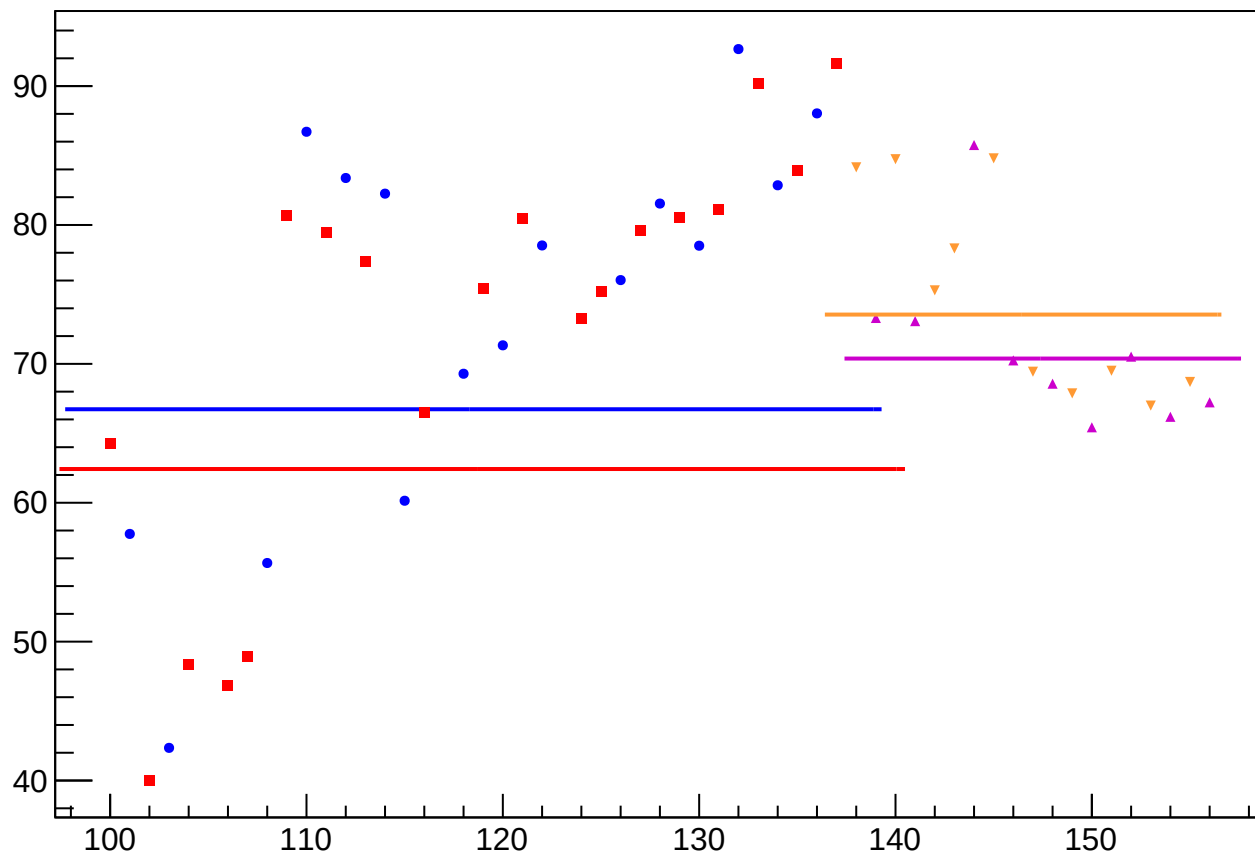
Right: 0.030 $\pm$ 0.018 χ^2 /NDF: 33.2/34

In: -0.021 $\pm$ 0.018 χ^2 /NDF: 25.2/24

Out: 0.033 $\pm$ 0.018 χ^2 /NDF: 25.5/28

All: 0.006 $\pm$ 0.013 χ^2 /NDF: 55.2/53

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: 73.549 $\pm$ 0.019 χ^2 /NDF:132484.8/9

Right Out: 62.429 $\pm$ 0.017 χ^2 /NDF: 1114078.0/18

Left In: 70.382 $\pm$ 0.018 χ^2 /NDF:83219.9/8

Left: 71.895 $\pm$ 0.013 χ^2 /NDF: 230383.1/18

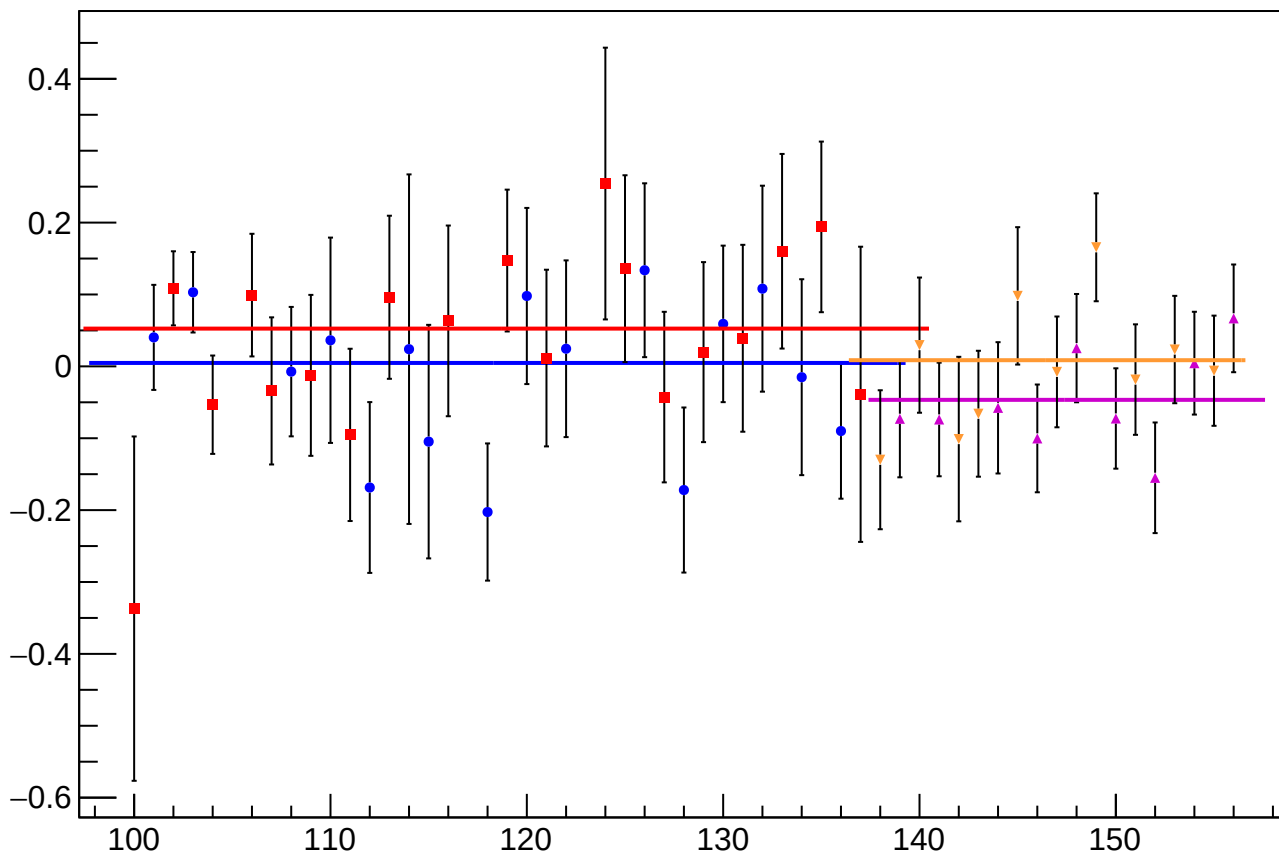
Right: 64.425 $\pm$ 0.012 χ^2 /NDF: 1960436.9/34

In: 68.583 $\pm$ 0.013 χ^2 /NDF:920111.1/24

Out: 67.415 $\pm$ 0.013 χ^2 /NDF:1437667.5/28

All: 67.989 $\pm$ 0.009 χ^2 /NDF: 2361969.2/53

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.026 $\chi^2/NDF: 16.6/15$

Left Out: 0.009 ± 0.027 $\chi^2/NDF: 9.2/9$

Right Out: 0.053 ± 0.024 $\chi^2/NDF: 14.8/18$

Left In: -0.047 ± 0.026 $\chi^2/NDF: 6.6/8$

Left: -0.020 ± 0.018 $\chi^2/NDF: 18.1/18$

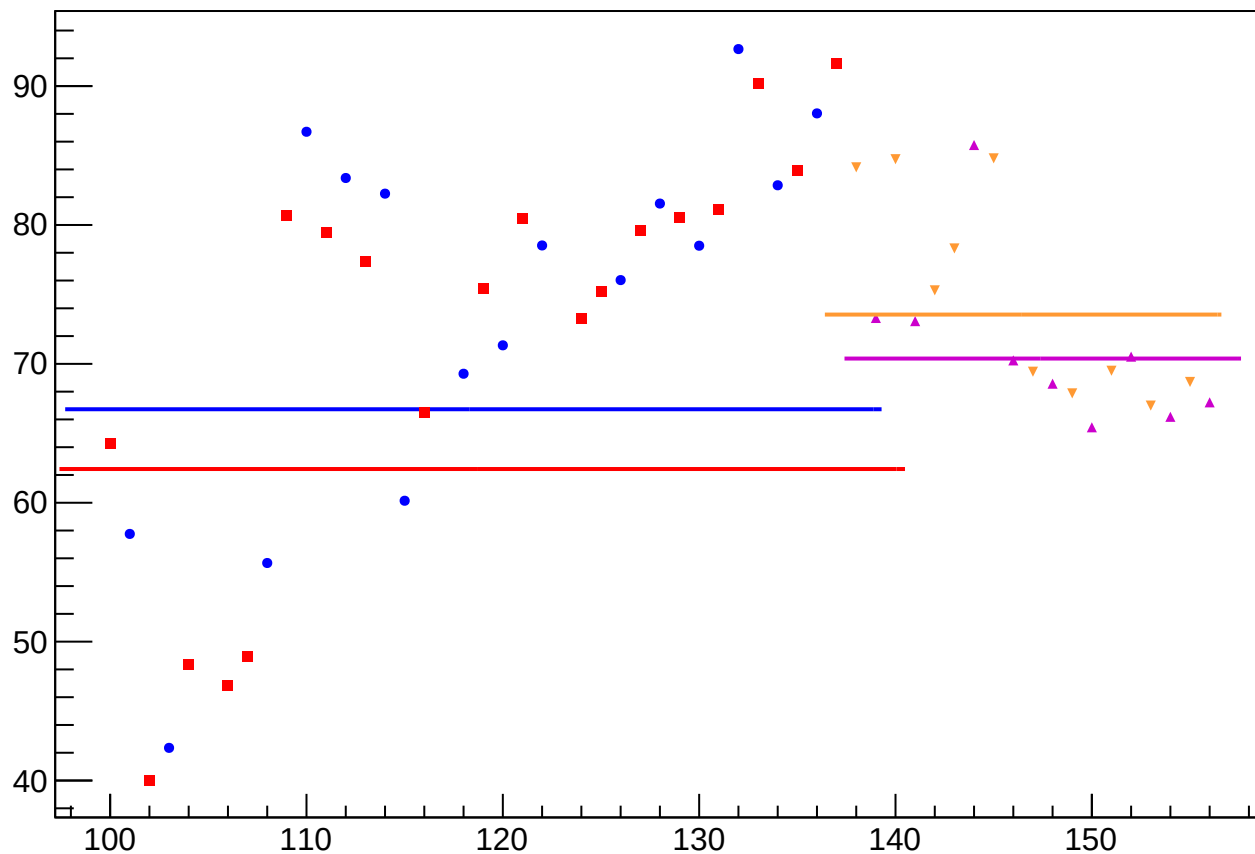
Right: 0.030 ± 0.018 $\chi^2/NDF: 33.2/34$

In: -0.021 ± 0.018 $\chi^2/NDF: 25.2/24$

Out: 0.033 ± 0.018 $\chi^2/NDF: 25.5/28$

All: 0.006 ± 0.013 $\chi^2/NDF: 55.2/53$

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.732+/-0.018 χ^2/NDF : 816752.6/15

Left Out: 73.549+/-0.019 χ^2/NDF :132484.8/9

Right Out: 62.429+/-0.017 χ^2/NDF : 1114078.0/18

Left In: 70.382+/-0.018 χ^2/NDF :83219.9/8

Left: 71.895+/-0.013 χ^2/NDF : 230383.1/18

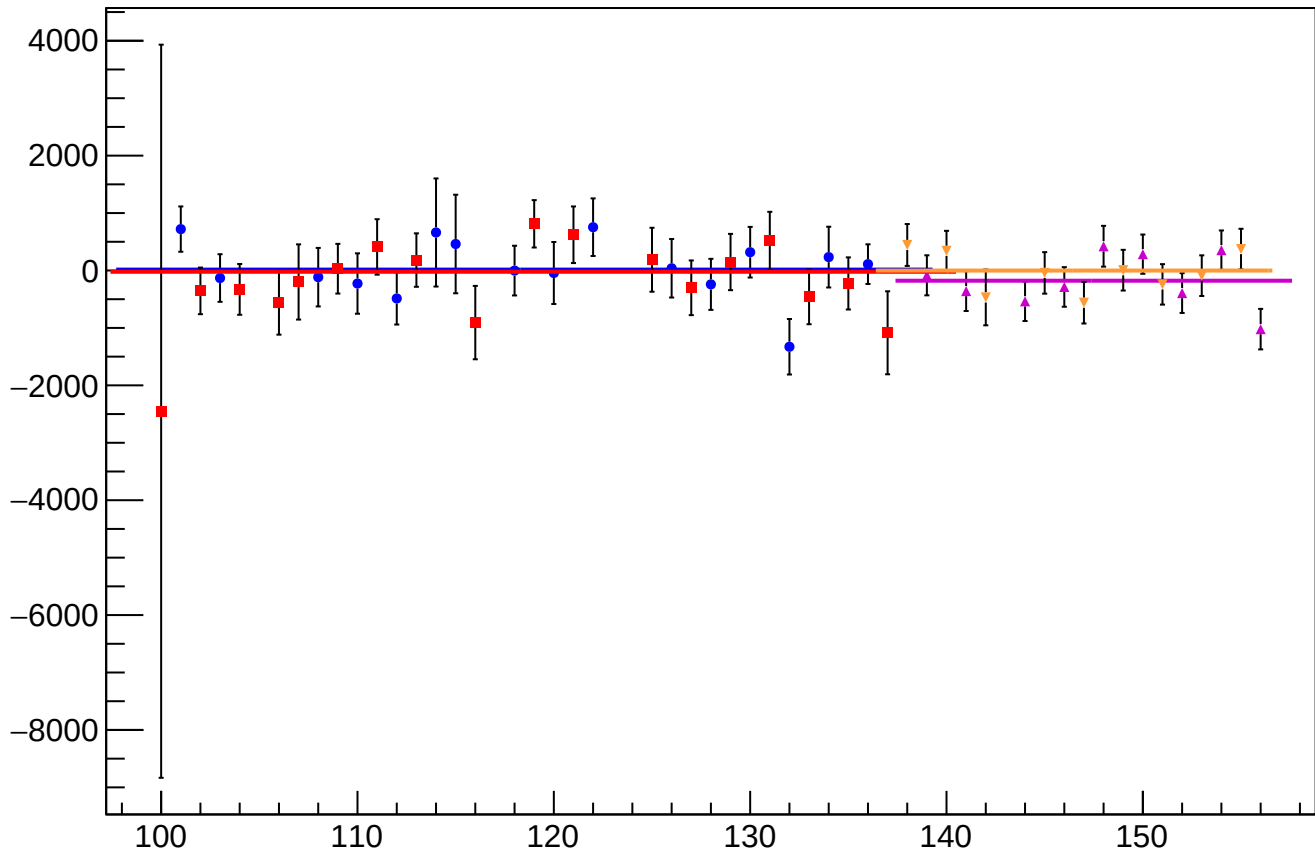
Right: 64.425+/-0.012 χ^2/NDF : 1960436.9/34

In: 68.583+/-0.013 χ^2/NDF :920111.1/24

Out: 67.415+/-0.013 χ^2/NDF :1437667.5/28

All: 67.989+/-0.009 χ^2/NDF : 2361969.2/53

asym_dsl_mean vs Slug, Sign Corrected



Right In: 15.517 ± 119.431 χ^2/NDF : 16.5/15

Left Out: -1.221 ± 121.906 χ^2/NDF : 7.4/8

Right Out: -22.145 ± 119.211 χ^2/NDF : 16.0/17

Left In: -177.976 ± 115.596 χ^2/NDF : 14.7/8

Left: -94.291 ± 83.881 χ^2/NDF : 23.3/17

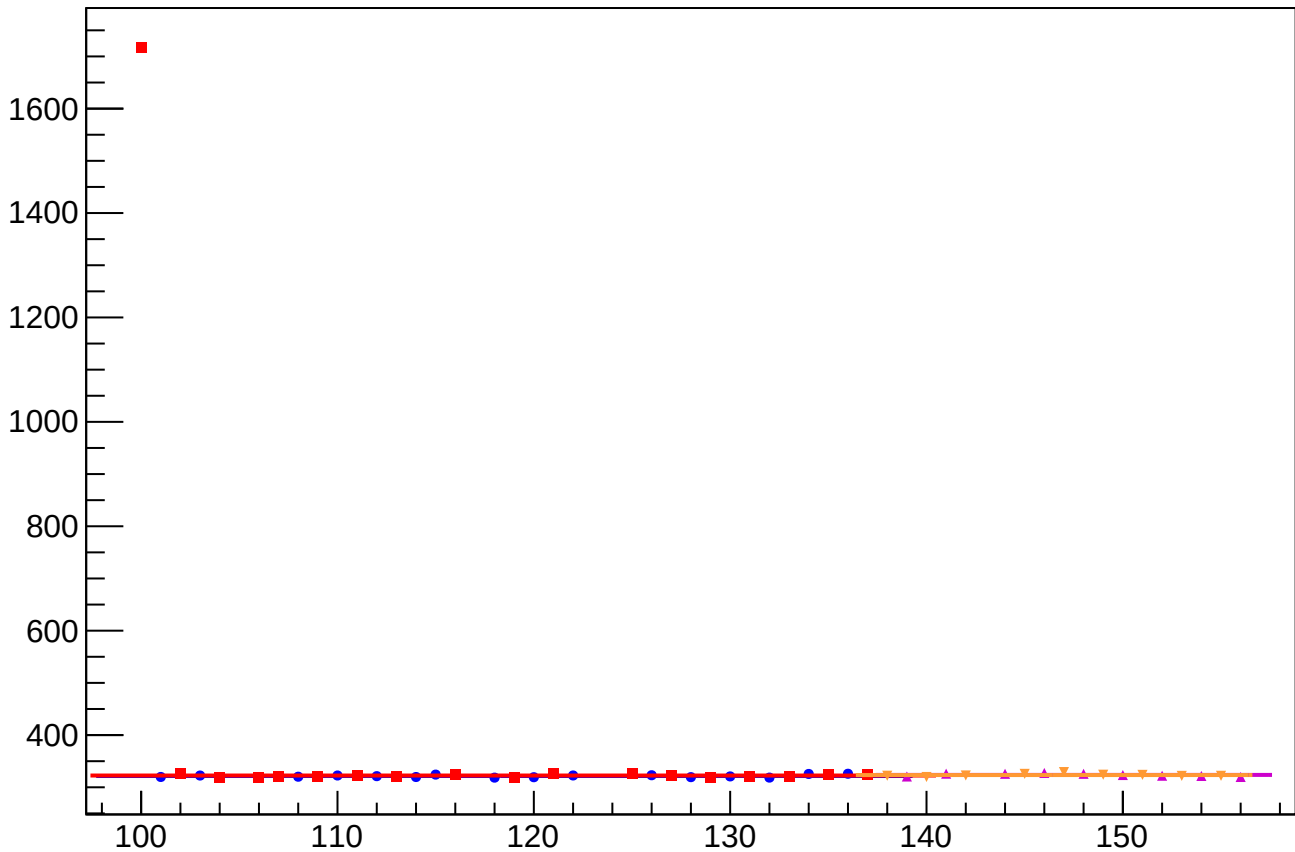
Right: -3.348 ± 84.373 χ^2/NDF : 32.6/33

In: -84.386 ± 83.061 χ^2/NDF : 32.6/24

Out: -11.916 ± 85.232 χ^2/NDF : 23.4/26

All: -49.086 ± 59.486 χ^2/NDF : 56.4/51

asym_dsl_rms vs Slug, Sign Corrected



Right In: 321.604 $\pm$ 0.084 χ^2 /NDF: 822.9/15

Left Out: 323.438 $\pm$ 0.086 χ^2 /NDF:915.8/8

Right Out: 322.553 $\pm$ 0.084 χ^2 /NDF: 96891.9/17

Left In: 323.713 $\pm$ 0.082 χ^2 /NDF:984.3/8

Left: 323.583 $\pm$ 0.059 χ^2 /NDF: 1905.4/17

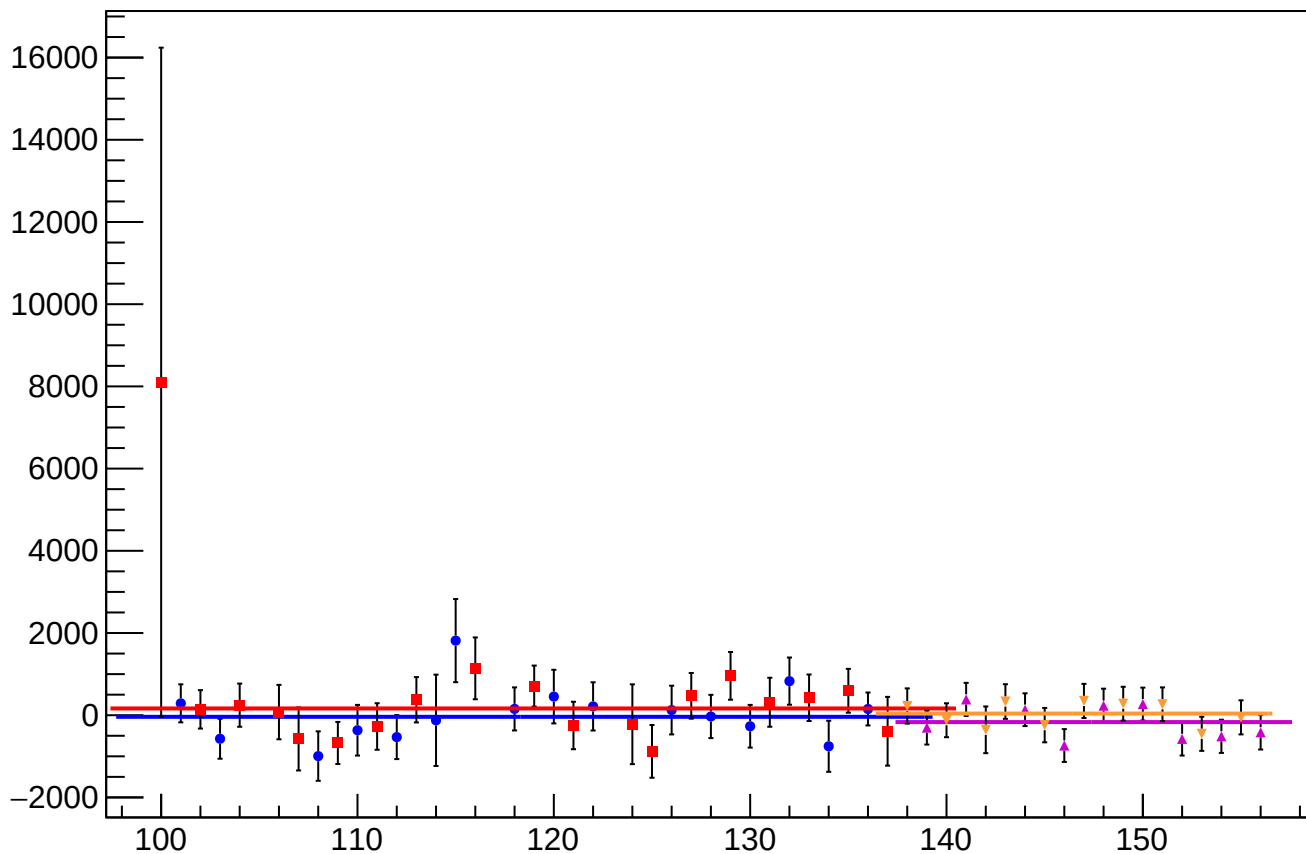
Right: 322.079 $\pm$ 0.060 χ^2 /NDF: 97778.0/33

In: 322.693 $\pm$ 0.059 χ^2 /NDF:2129.2/24

Out: 322.986 $\pm$ 0.060 χ^2 /NDF:97861.7/26

All: 322.836 $\pm$ 0.042 χ^2 /NDF: 100003.0/51

asym_dsr_mean vs Slug, Sign Corrected



Right In: -38.914 ± 140.720 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 40.372 ± 134.836 $\chi^2/\text{NDF}: 4.4/9$

Right Out: 164.639 ± 138.962 $\chi^2/\text{NDF}: 15.1/18$

Left In: -166.785 ± 135.252 $\chi^2/\text{NDF}: 8.8/8$

Left: -62.887 ± 95.490 $\chi^2/\text{NDF}: 14.4/18$

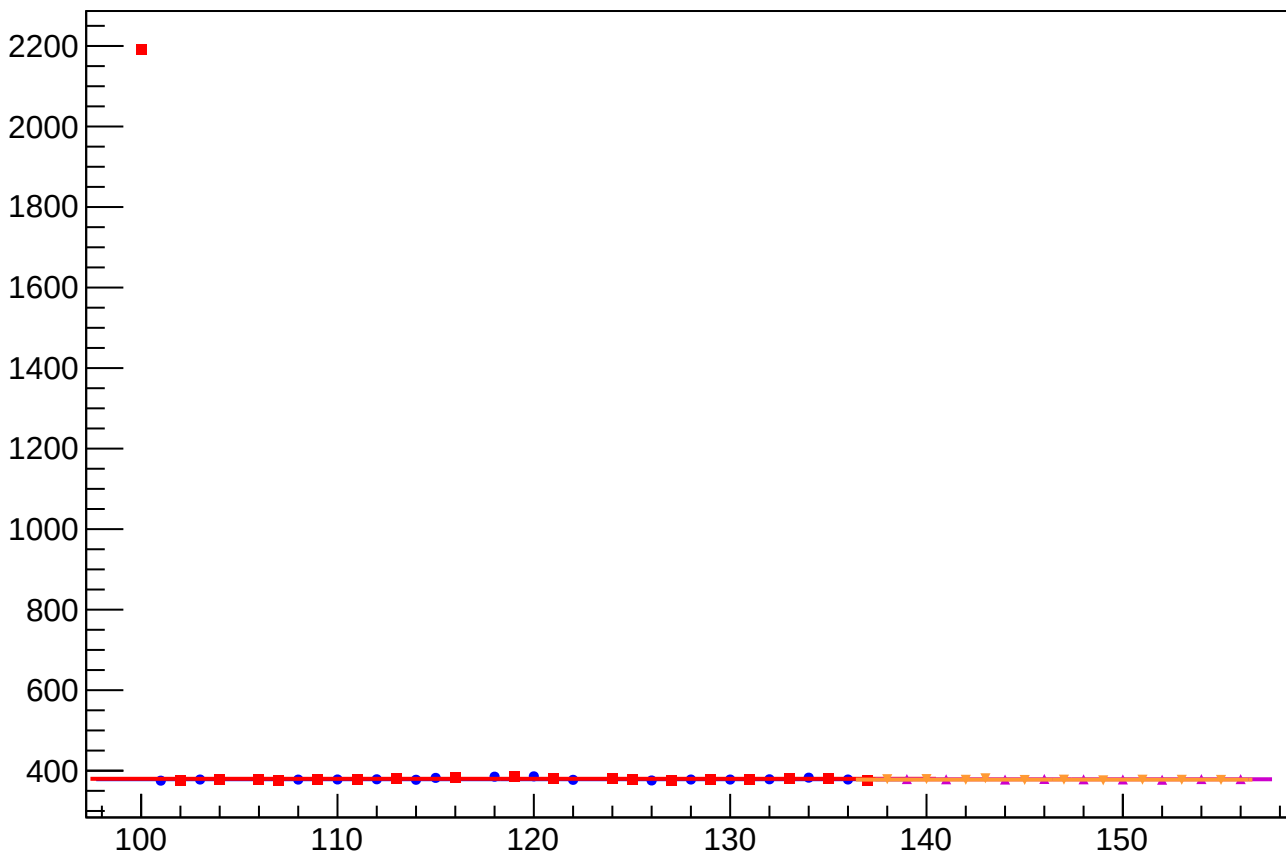
Right: 64.141 ± 98.877 $\chi^2/\text{NDF}: 29.9/34$

In: -105.382 ± 97.513 $\chi^2/\text{NDF}: 23.0/24$

Out: 100.633 ± 96.769 $\chi^2/\text{NDF}: 19.9/28$

All: -1.585 ± 68.688 $\chi^2/\text{NDF}: 45.2/53$

asym_dsr_rms vs Slug, Sign Corrected



Right In: 378.910 $\pm$ 0.100 χ^2 /NDF: 851.2/15

Left Out: 377.907 $\pm$ 0.095 χ^2 /NDF: 208.5/9

Right Out: 379.878 $\pm$ 0.098 χ^2 /NDF: 99621.5/18

Left In: 378.748 $\pm$ 0.096 χ^2 /NDF: 40.0/8

Left: 378.326 $\pm$ 0.068 χ^2 /NDF: 287.3/18

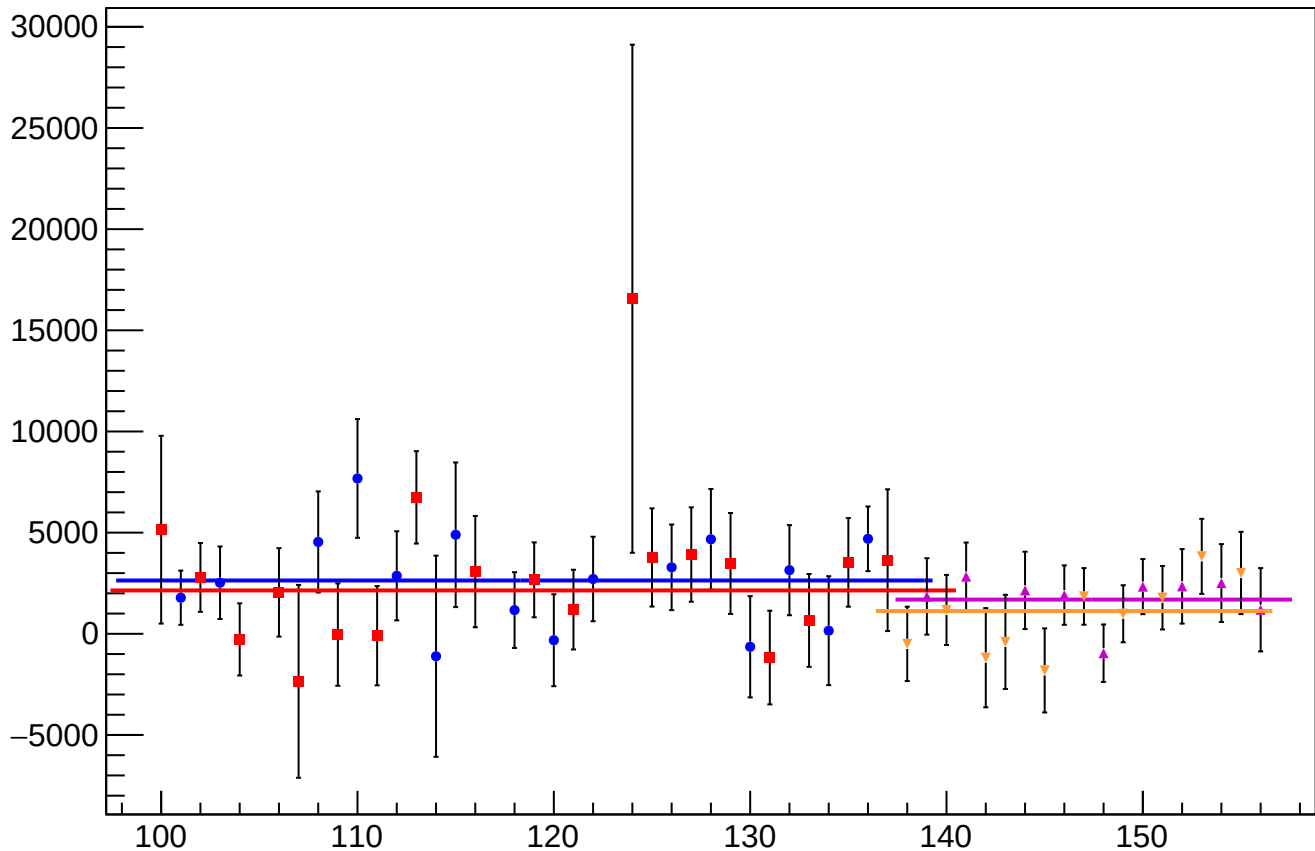
Right: 379.400 $\pm$ 0.070 χ^2 /NDF: 100520.6/34

In: 378.826 $\pm$ 0.069 χ^2 /NDF: 892.6/24

Out: 378.863 $\pm$ 0.068 χ^2 /NDF: 100037.2/28

All: 378.844 $\pm$ 0.049 χ^2 /NDF: 100929.9/53

asym_us_agg_avg_mean vs Slug, Sign Corrected



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

Left Out: 1125.779 $\pm$ 562.285 χ^2 /NDF: 7.5/9

Right Out: 2144.569 $\pm$ 546.963 χ^2 /NDF: 15.0/18

Left In: 1691.354 $\pm$ 558.593 χ^2 /NDF: 4.6/8

Left: 1410.429 $\pm$ 396.283 χ^2 /NDF: 12.6/18

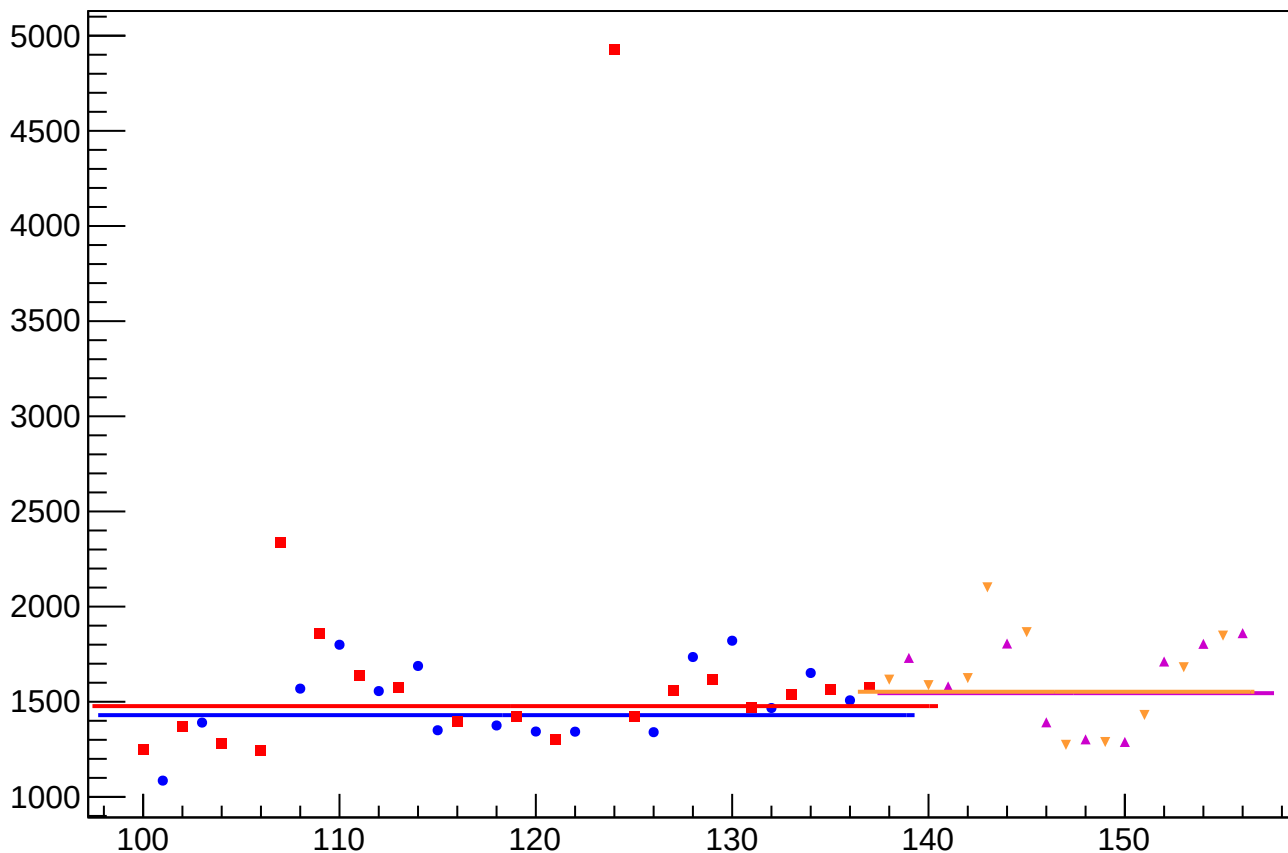
Right: 2394.022 $\pm$ 383.566 χ^2 /NDF: 27.7/34

In: 2181.067 $\pm$ 387.512 χ^2 /NDF: 18.3/24

Out: 1649.243 $\pm$ 392.066 χ^2 /NDF: 24.3/28

All: 1918.262 $\pm$ 275.608 χ^2 /NDF: 43.5/53

asym_us_agg_avg_rms vs Slug, Sign Corrected



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

Left Out: 1552.581+/-0.398 χ^2/NDF : 374813.9/9

Right Out: 1477.126+/-0.387 χ^2/NDF : 369430.6/18

Left In: 1545.165+/-0.395 χ^2/NDF : 307844.8/8

Left: 1548.849+/-0.280 χ^2/NDF : 682833.9/18

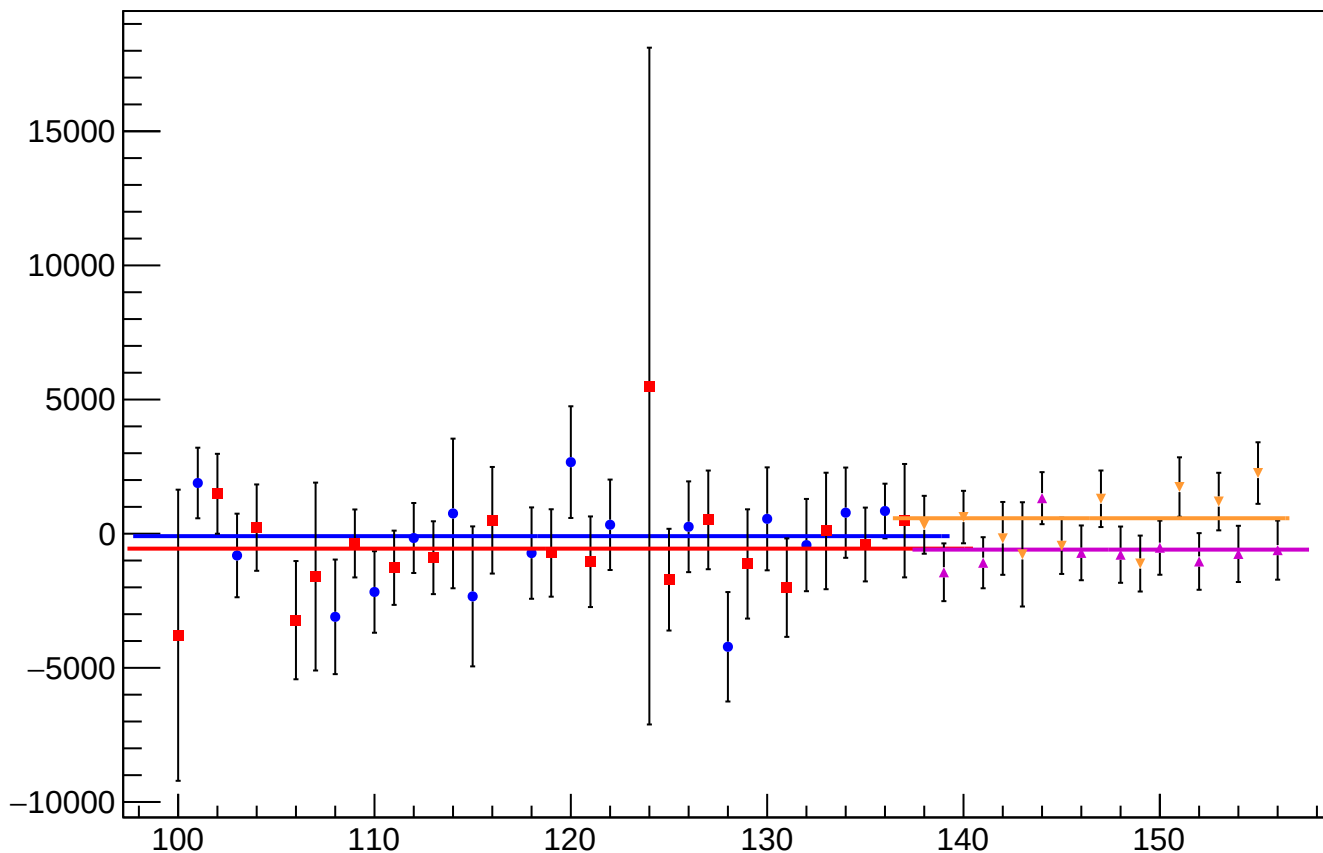
Right: 1452.999+/-0.271 χ^2/NDF : 670475.8/34

In: 1485.245+/-0.274 χ^2/NDF : 645598.3/24

Out: 1513.812+/-0.277 χ^2/NDF : 762750.1/28

All: 1499.361+/-0.195 χ^2/NDF : 1413719.2/53

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -91.305 $\pm$ 409.957 χ^2/NDF : 14.5/15

Left Out: 576.341 $\pm$ 356.099 χ^2/NDF : 8.5/9

Right Out: -556.840 $\pm$ 411.346 χ^2/NDF : 6.8/18

Left In: -593.346 $\pm$ 342.716 χ^2/NDF : 5.0/8

Left: -30.894 $\pm$ 246.932 χ^2/NDF : 19.1/18

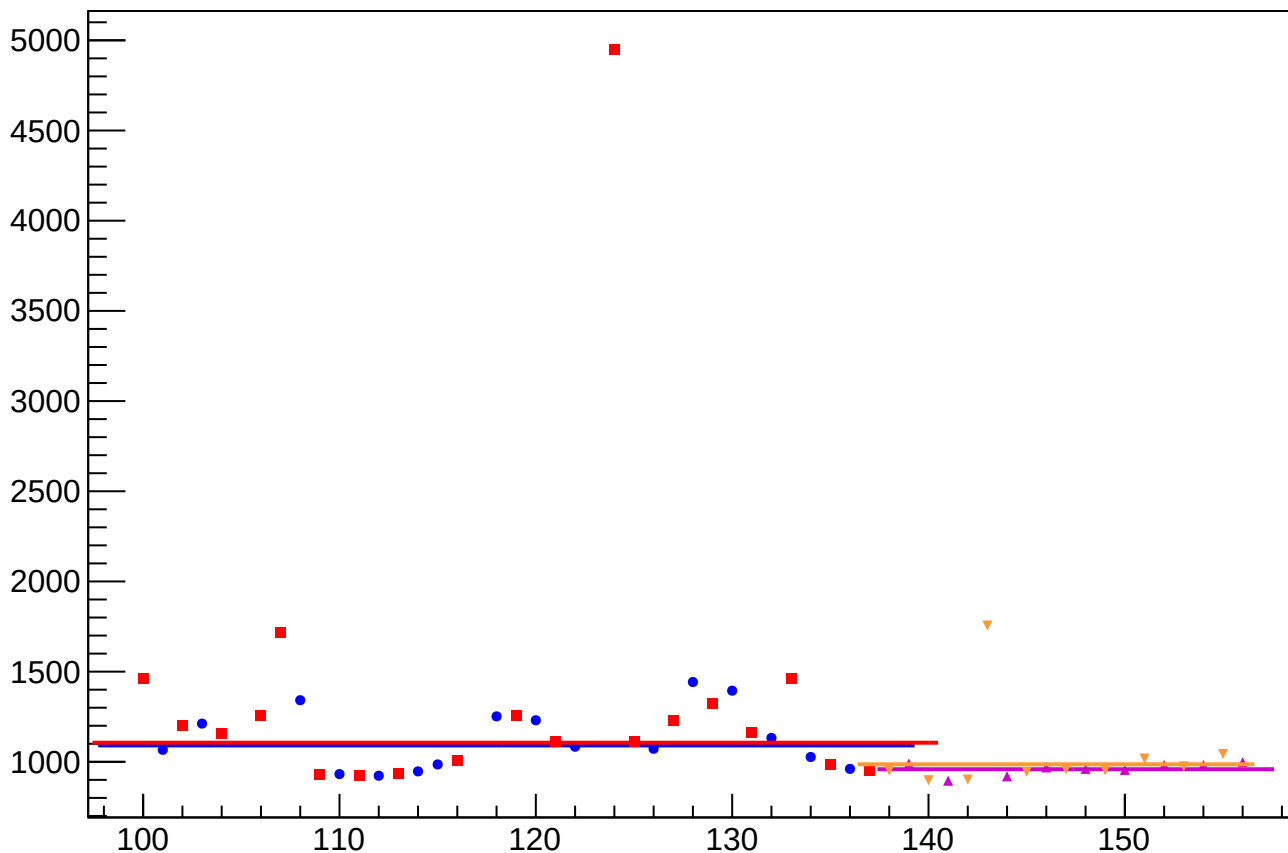
Right: -323.285 $\pm$ 290.373 χ^2/NDF : 21.9/34

In: -386.820 $\pm$ 262.939 χ^2/NDF : 20.5/24

Out: 90.906 $\pm$ 269.230 χ^2/NDF : 19.6/28

All: -153.604 $\pm$ 188.111 χ^2/NDF : 41.6/53

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1091.041 $\pm$ 0.290 χ^2/NDF : 277304.9/15

Left Out: 986.340 $\pm$ 0.252 χ^2/NDF : 352983.0/9

Right Out: 1106.046 $\pm$ 0.291 χ^2/NDF : 514097.9/18

Left In: 958.903 $\pm$ 0.242 χ^2/NDF : 18718.3/8

Left: 972.096 $\pm$ 0.175 χ^2/NDF : 377864.7/18

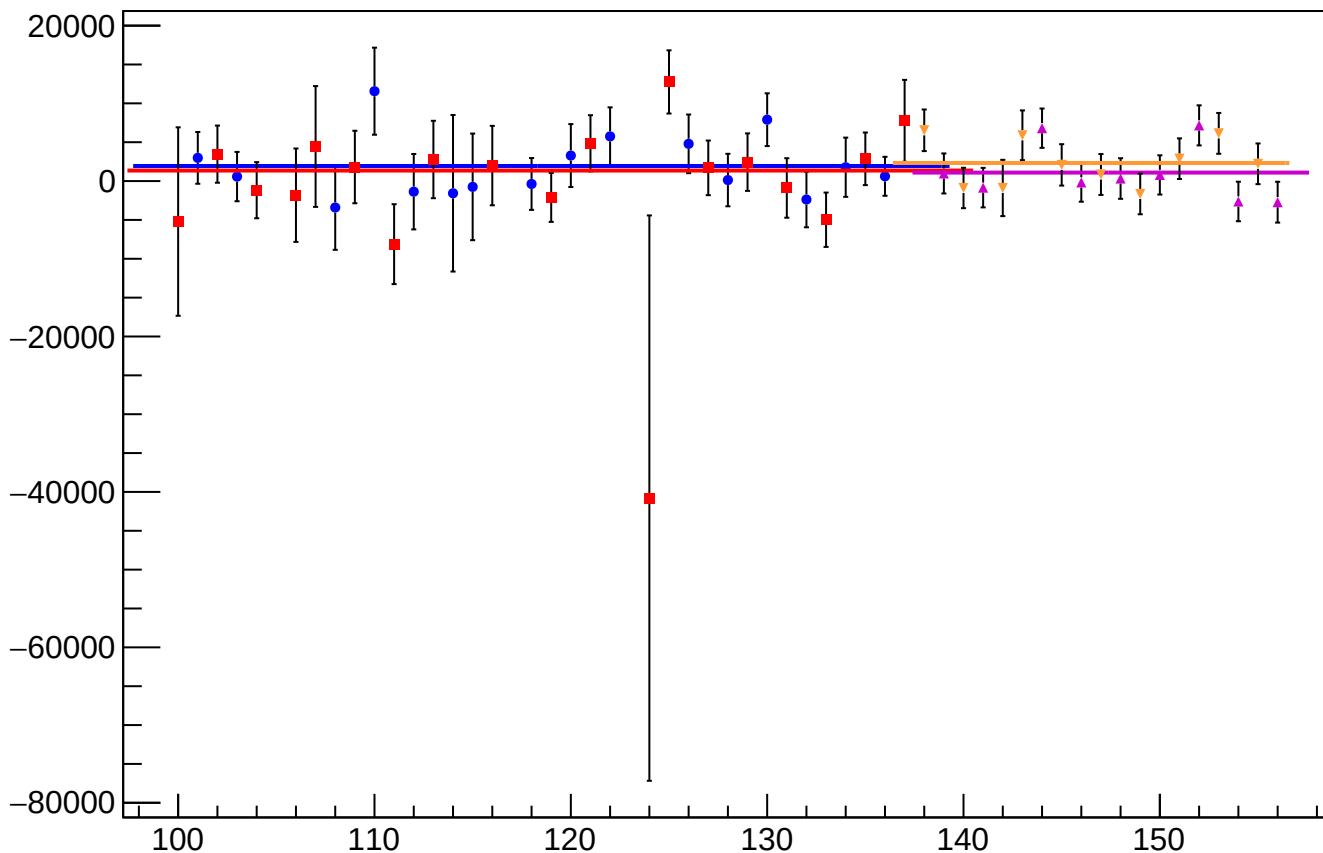
Right: 1098.518 $\pm$ 0.205 χ^2/NDF : 792737.9/34

In: 1013.261 $\pm$ 0.186 χ^2/NDF : 418329.2/24

Out: 1037.620 $\pm$ 0.190 χ^2/NDF : 963899.1/28

All: 1025.152 $\pm$ 0.133 χ^2/NDF : 1390607.6/53

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1939.656 $\pm$ 952.537 χ^2 /NDF: 12.2/15

Left Out: 2327.708 $\pm$ 866.948 χ^2 /NDF:10.8/9

Right Out: 1353.428 $\pm$ 985.119 χ^2 /NDF: 21.8/18

Left In: 1090.072 $\pm$ 852.025 χ^2 /NDF:15.8/8

Left: 1698.147 $\pm$ 607.680 χ^2 /NDF: 27.7/18

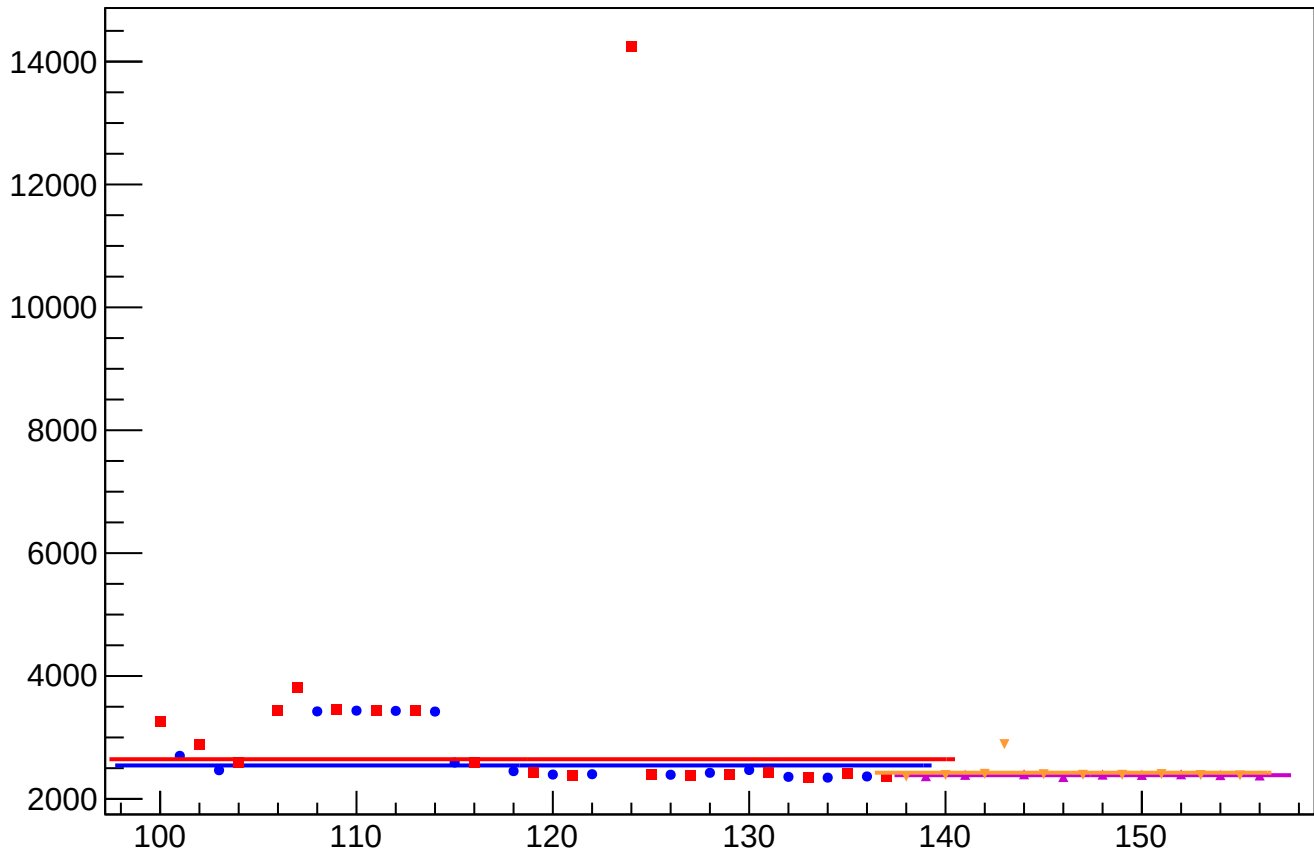
Right: 1656.397 $\pm$ 684.775 χ^2 /NDF: 34.2/34

In: 1467.690 $\pm$ 635.045 χ^2 /NDF:28.5/24

Out: 1902.480 $\pm$ 650.816 χ^2 /NDF:33.2/28

All: 1679.753 $\pm$ 454.518 χ^2 /NDF: 61.9/53

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416 $\pm$ 0.674 χ^2 /NDF: 225614.0/15

Left Out: 2426.407 $\pm$ 0.613 χ^2 /NDF: 45727.1/9

Right Out: 2645.647 $\pm$ 0.697 χ^2 /NDF: 536965.2/18

Left In: 2386.030 $\pm$ 0.602 χ^2 /NDF: 537.9/8

Left: 2405.868 $\pm$ 0.430 χ^2 /NDF: 48471.7/18

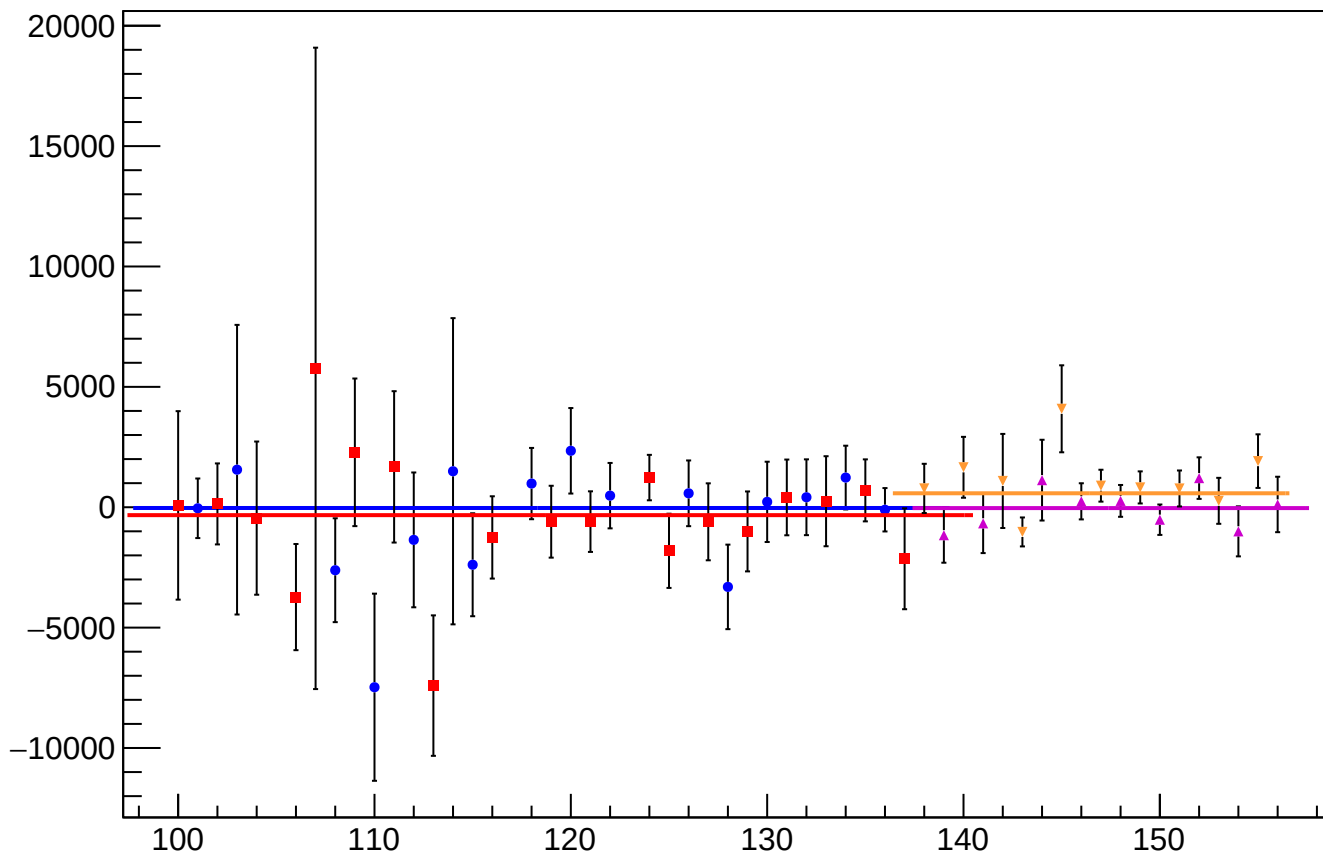
Right: 2593.330 $\pm$ 0.484 χ^2 /NDF: 773493.8/34

In: 2456.429 $\pm$ 0.449 χ^2 /NDF: 256870.5/24

Out: 2522.095 $\pm$ 0.460 χ^2 /NDF: 638516.0/28

All: 2488.457 $\pm$ 0.321 χ^2 /NDF: 905816.8/53

asym_atl1_reg_correction_mean vs Slug, Sign Corrected



Right In: -31.191 ± 405.726 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 579.802 ± 275.804 $\chi^2/\text{NDF}: 13.7/9$

Right Out: -328.475 ± 398.568 $\chi^2/\text{NDF}: 15.6/18$

Left In: -35.509 ± 296.554 $\chi^2/\text{NDF}: 5.6/8$

Left: 294.425 ± 201.961 $\chi^2/\text{NDF}: 21.6/18$

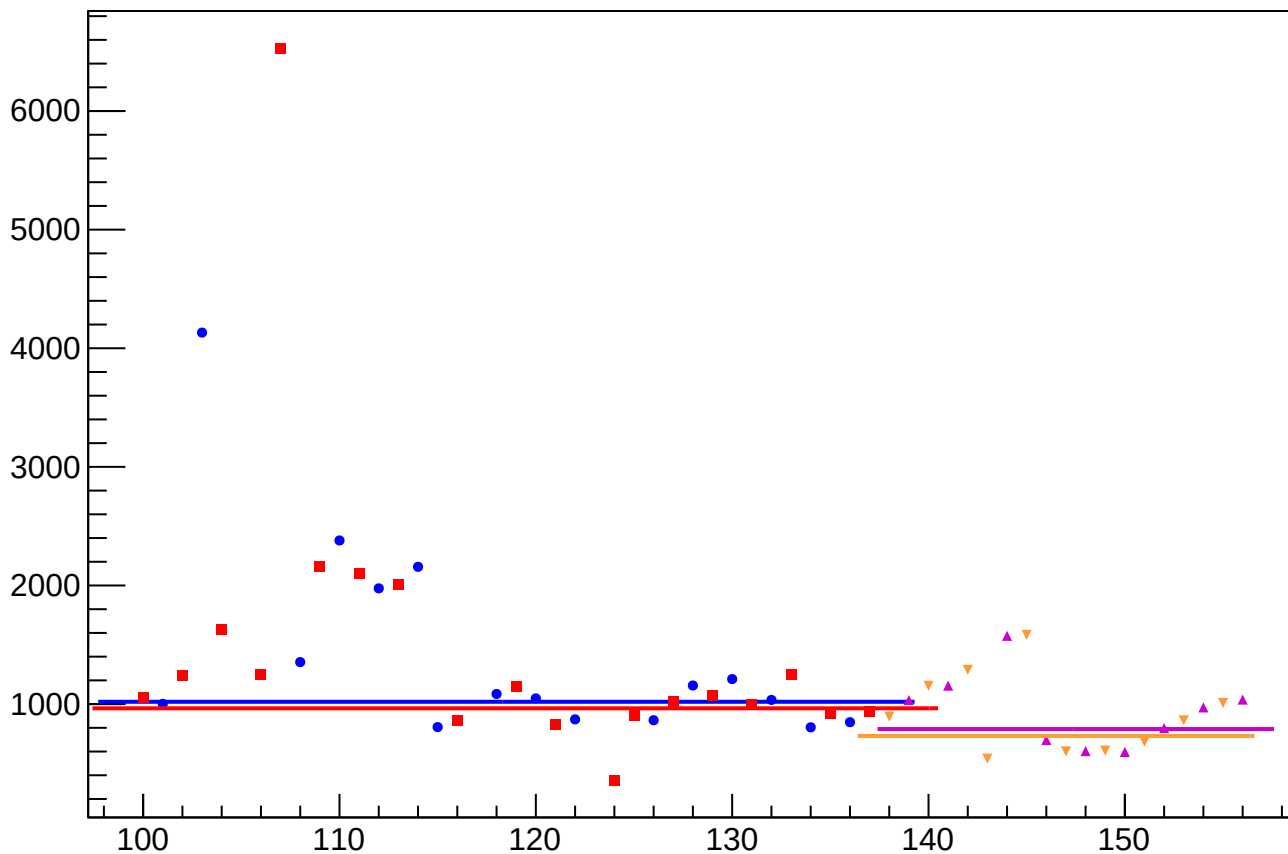
Right: -182.479 ± 284.327 $\chi^2/\text{NDF}: 29.7/34$

In: -34.005 ± 239.418 $\chi^2/\text{NDF}: 19.4/24$

Out: 285.705 ± 226.798 $\chi^2/\text{NDF}: 32.9/28$

All: 134.498 ± 164.651 $\chi^2/\text{NDF}: 53.2/53$

asym_atl1_reg_correction_rms vs Slug, Sign Corrected



Right In: 1019.523+/-0.287 χ^2/NDF : 1364745.9/15

Left Out: 731.790+/-0.195 χ^2/NDF :1402181.4/9

Right Out: 964.379+/-0.282 χ^2/NDF : 2309359.3/18

Left In: 789.779+/-0.210 χ^2/NDF :1235141.5/8

Left: 758.685+/-0.143 χ^2/NDF : 2678329.7/18

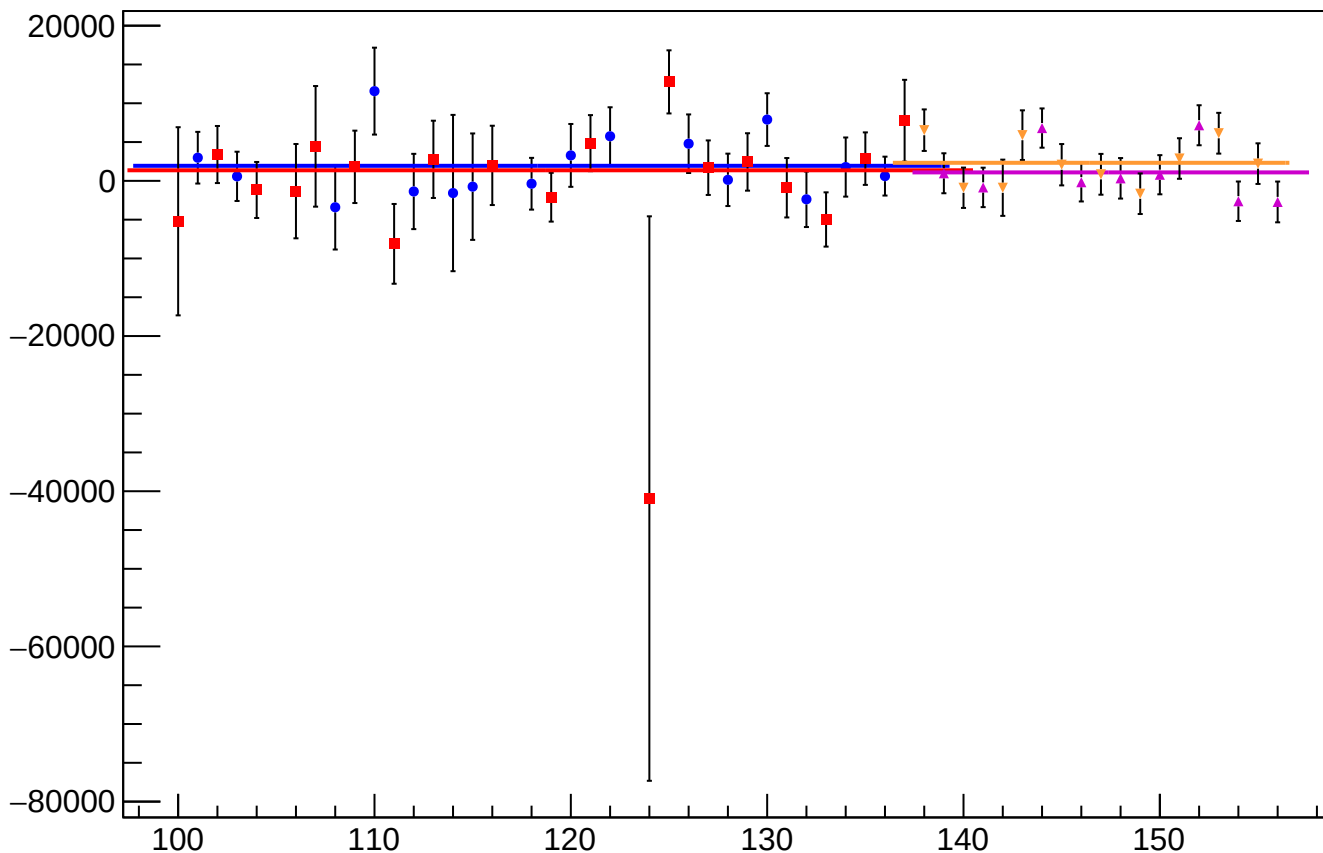
Right: 991.460+/-0.201 χ^2/NDF : 3692906.6/34

In: 869.779+/-0.169 χ^2/NDF :3017866.4/24

Out: 807.101+/-0.160 χ^2/NDF :4172096.0/28

All: 836.745+/-0.116 χ^2/NDF : 7262205.8/53

cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005+/-952.537 χ^2/NDF : 12.2/15

Left Out: 2327.569+/-866.948 χ^2/NDF : 10.8/9

Right Out: 1363.089+/-985.420 χ^2/NDF : 21.7/18

Left In: 1090.284+/-852.025 χ^2/NDF : 15.8/8

Left: 1698.186+/-607.680 χ^2/NDF : 27.7/18

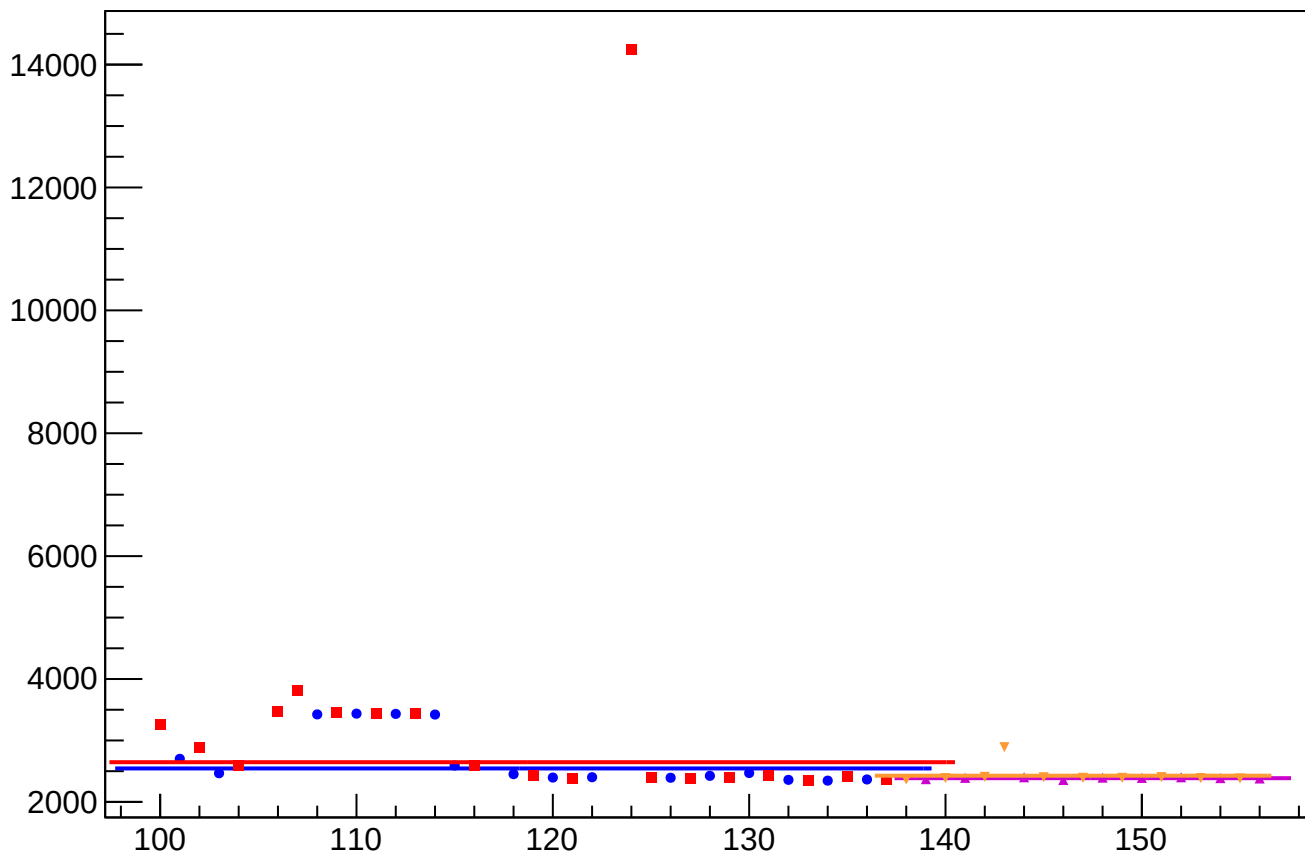
Right: 1661.333+/-684.876 χ^2/NDF : 34.1/34

In: 1467.962+/-635.045 χ^2/NDF : 28.5/24

Out: 1906.763+/-650.902 χ^2/NDF : 33.1/28

All: 1681.953+/-454.548 χ^2/NDF : 61.8/53

cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416 $\pm$ 0.674 χ^2 /NDF: 225614.0/15

Left Out: 2426.407 $\pm$ 0.613 χ^2 /NDF: 45727.1/9

Right Out: 2646.203 $\pm$ 0.697 χ^2 /NDF: 539546.8/18

Left In: 2386.030 $\pm$ 0.602 χ^2 /NDF: 537.9/8

Left: 2405.868 $\pm$ 0.430 χ^2 /NDF: 48471.7/18

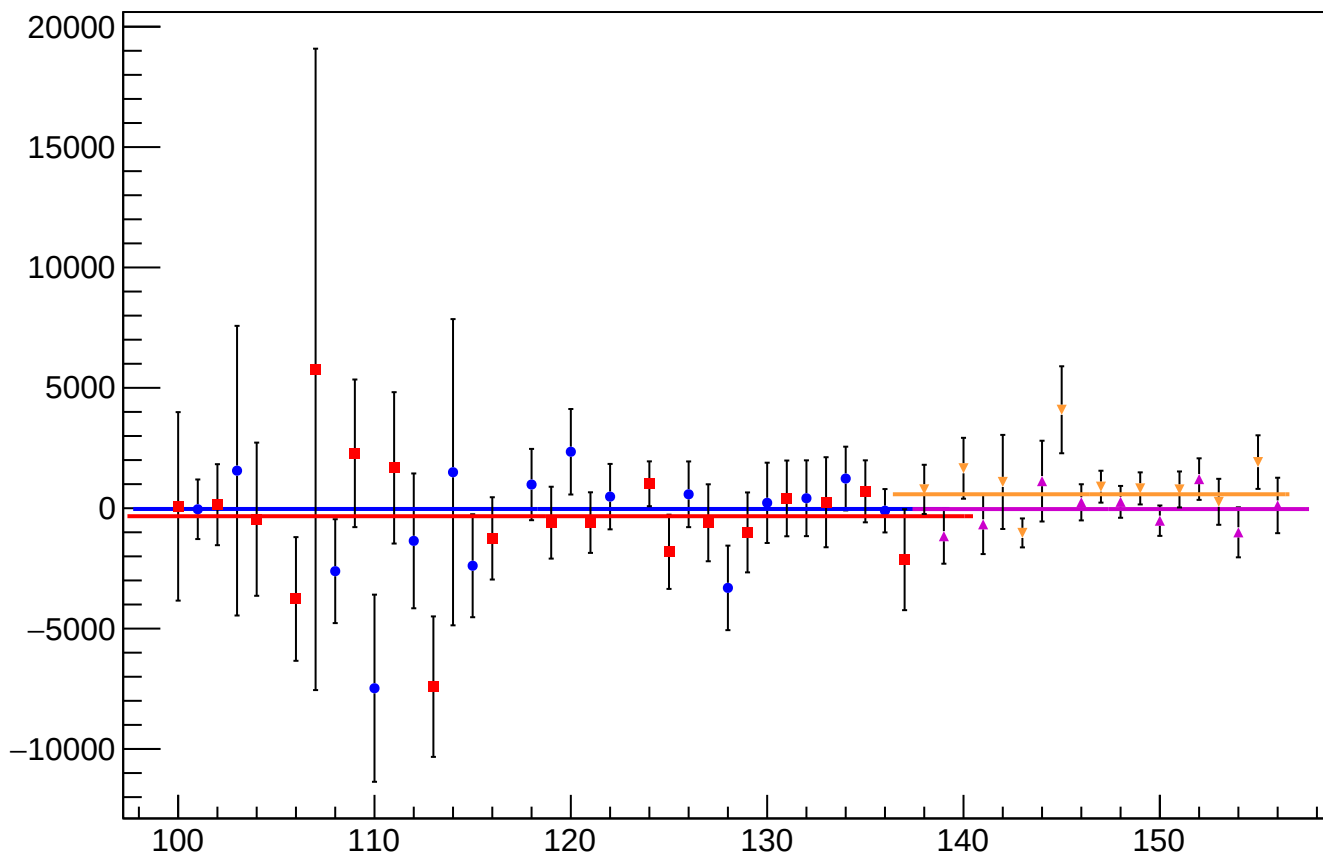
Right: 2593.583 $\pm$ 0.484 χ^2 /NDF: 776192.2/34

In: 2456.429 $\pm$ 0.449 χ^2 /NDF: 256870.5/24

Out: 2522.305 $\pm$ 0.460 χ^2 /NDF: 641362.0/28

All: 2488.555 $\pm$ 0.321 χ^2 /NDF: 908728.1/53

asym_atl1_cor_correction_mean vs Slug, Sign Corrected



Right In: -31.253 ± 405.723 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 579.721 ± 275.808 $\chi^2/\text{NDF}: 13.7/9$

Right Out: -331.962 ± 399.334 $\chi^2/\text{NDF}: 14.4/18$

Left In: -35.412 ± 296.553 $\chi^2/\text{NDF}: 5.6/8$

Left: 294.421 ± 201.962 $\chi^2/\text{NDF}: 21.6/18$

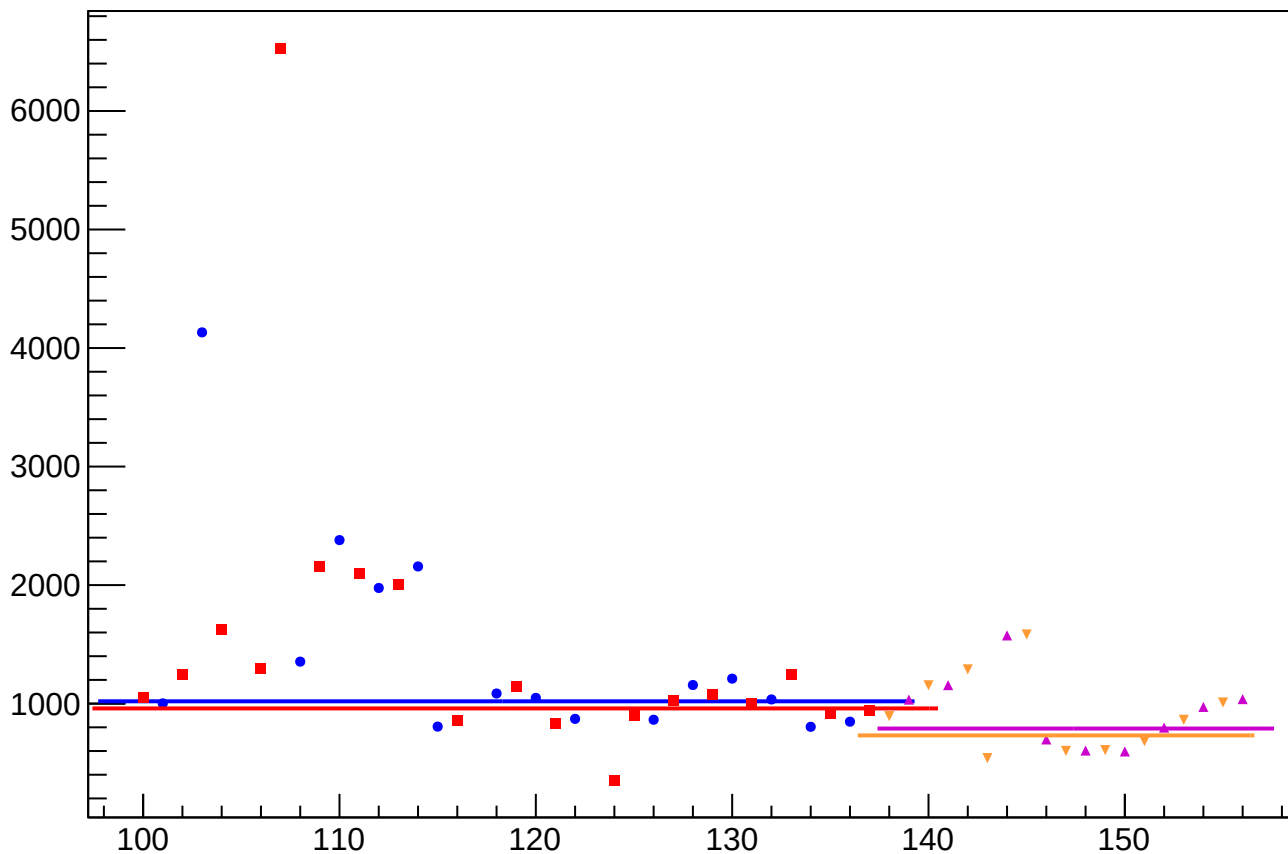
Right: -183.994 ± 284.604 $\chi^2/\text{NDF}: 28.5/34$

In: -33.964 ± 239.417 $\chi^2/\text{NDF}: 19.4/24$

Out: 285.281 ± 226.941 $\chi^2/\text{NDF}: 31.6/28$

All: 134.193 ± 164.705 $\chi^2/\text{NDF}: 52.0/53$

asym_atl1_cor_correction_rms vs Slug, Sign Corrected



Right In: 1019.514 $\pm$ 0.287 χ^2/NDF : 1364741.0/15

Left Out: 731.801 $\pm$ 0.195 χ^2/NDF : 1402118.0/9

Right Out: 959.344 $\pm$ 0.282 χ^2/NDF : 2344434.8/18

Left In: 789.773 $\pm$ 0.210 χ^2/NDF : 1235235.9/8

Left: 758.689 $\pm$ 0.143 χ^2/NDF : 2678335.6/18

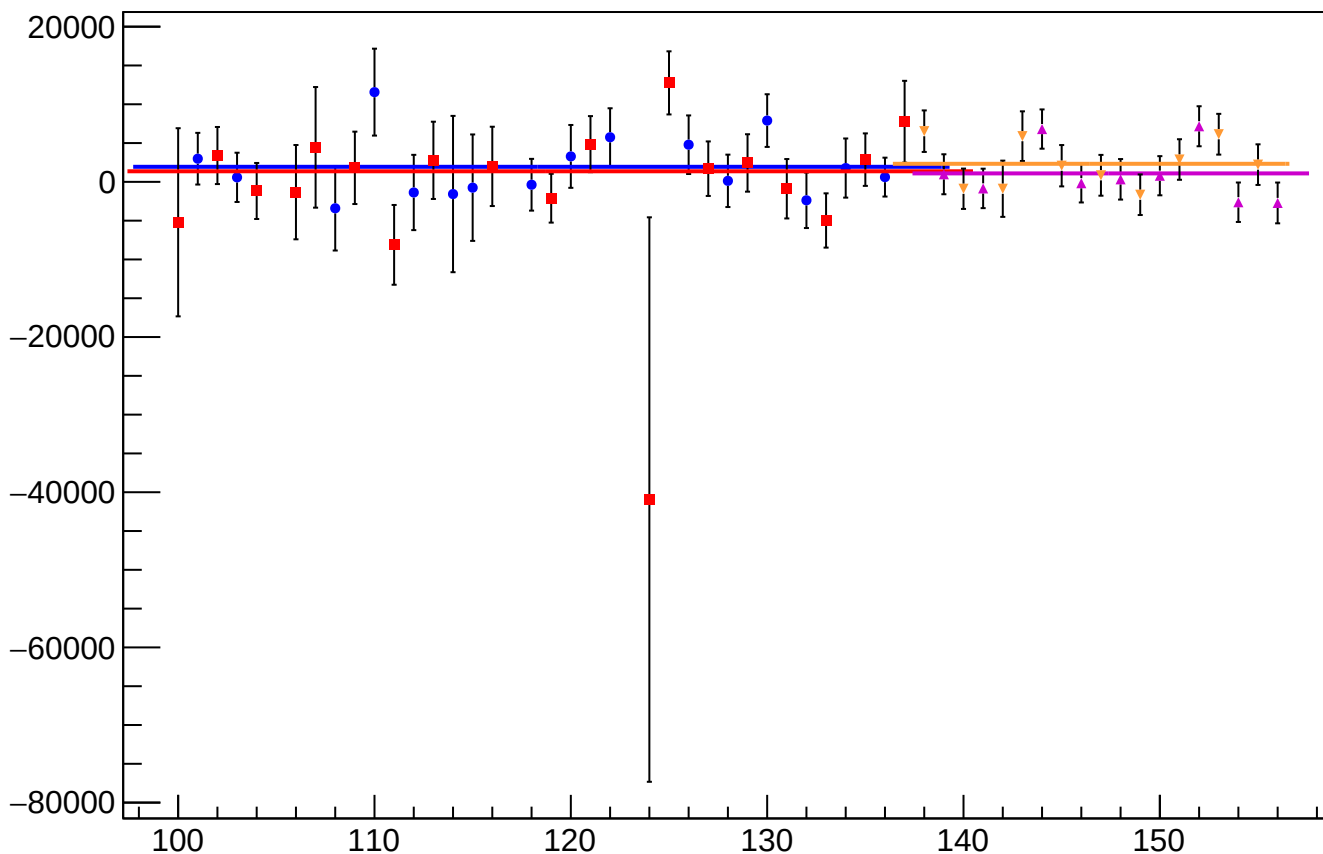
Right: 988.952 $\pm$ 0.201 χ^2/NDF : 3731518.7/34

In: 869.773 $\pm$ 0.169 χ^2/NDF : 3017951.3/24

Out: 805.289 $\pm$ 0.160 χ^2/NDF : 4186191.9/28

All: 835.807 $\pm$ 0.116 χ^2/NDF : 7280564.3/53

eigen_cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005+/-952.537 χ^2/NDF : 12.2/15

Left Out: 2327.569+/-866.948 χ^2/NDF : 10.8/9

Right Out: 1363.089+/-985.420 χ^2/NDF : 21.7/18

Left In: 1090.284+/-852.025 χ^2/NDF : 15.8/8

Left: 1698.186+/-607.680 χ^2/NDF : 27.7/18

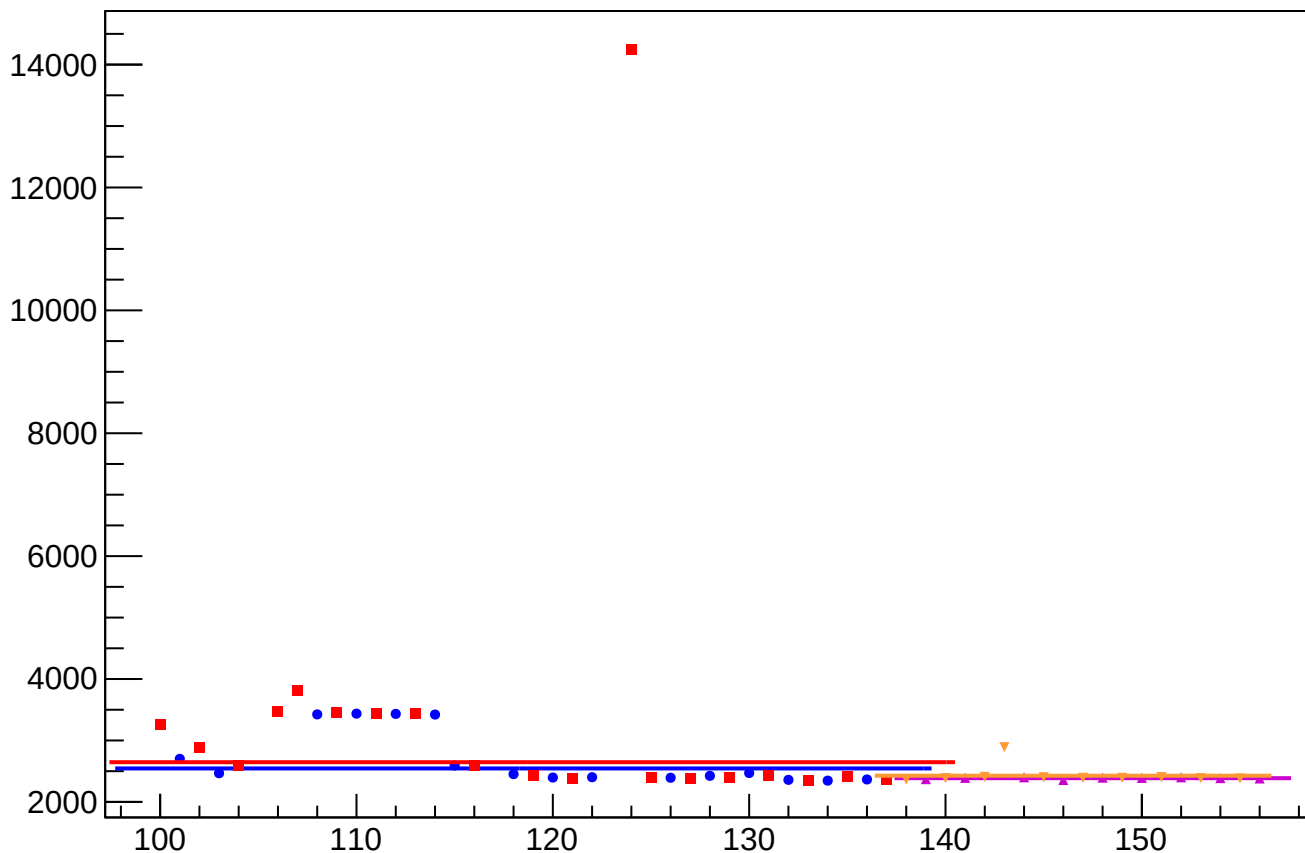
Right: 1661.333+/-684.876 χ^2/NDF : 34.1/34

In: 1467.962+/-635.045 χ^2/NDF : 28.5/24

Out: 1906.763+/-650.902 χ^2/NDF : 33.1/28

All: 1681.953+/-454.548 χ^2/NDF : 61.8/53

eigen_cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2426.407+/-0.613 χ^2/NDF : 45727.1/9

Right Out: 2646.203+/-0.697 χ^2/NDF : 539546.8/18

Left In: 2386.030+/-0.602 χ^2/NDF : 537.9/8

Left: 2405.868+/-0.430 χ^2/NDF : 48471.7/18

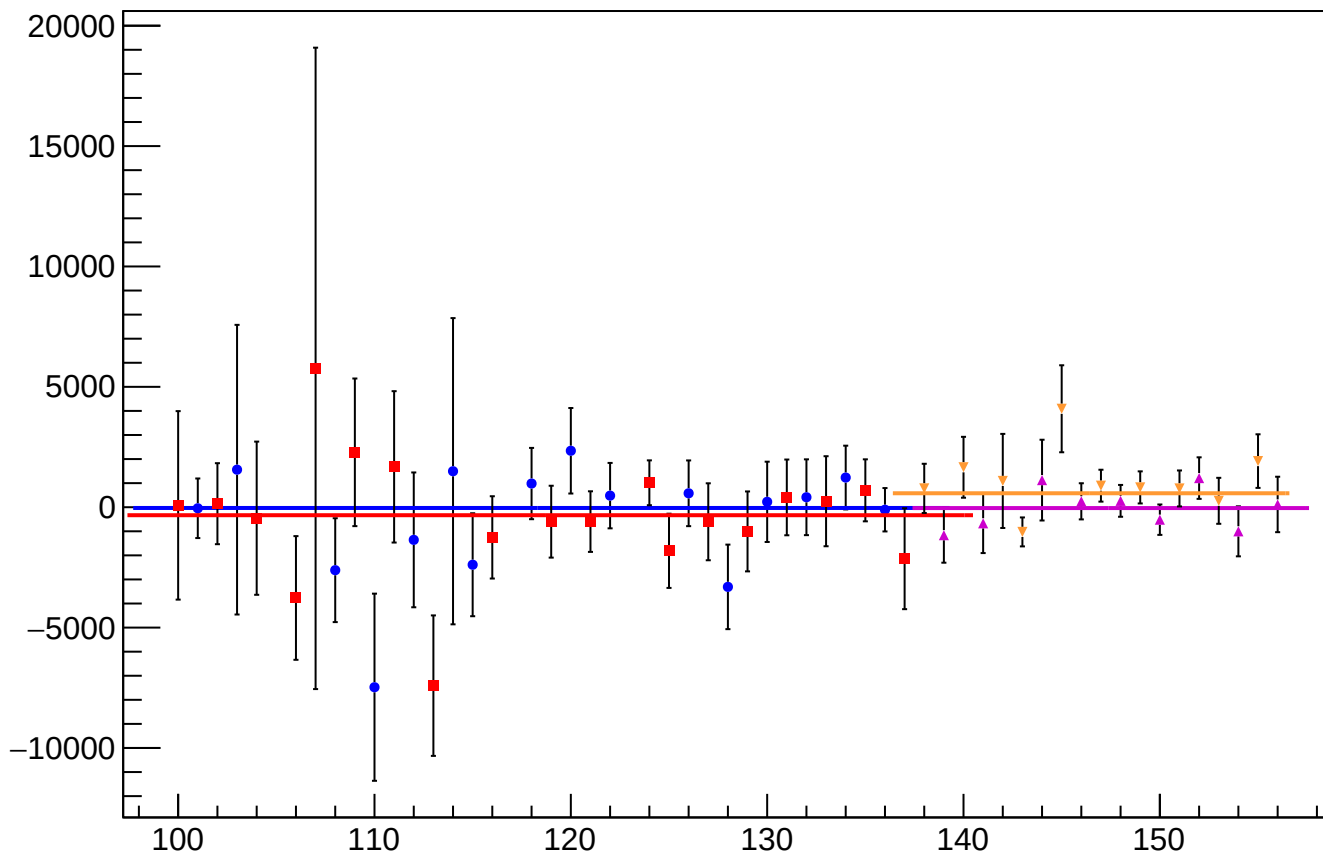
Right: 2593.583+/-0.484 χ^2/NDF : 776192.2/34

In: 2456.429+/-0.449 χ^2/NDF : 256870.5/24

Out: 2522.305+/-0.460 χ^2/NDF : 641362.0/28

All: 2488.555+/-0.321 χ^2/NDF : 908728.1/53

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: 579.721 ± 275.808 $\chi^2/\text{NDF}: 13.7/9$

Right Out: -331.962 ± 399.334 $\chi^2/\text{NDF}: 14.4/18$

Left In: -35.412 ± 296.553 $\chi^2/\text{NDF}: 5.6/8$

Left: 294.421 ± 201.962 $\chi^2/\text{NDF}: 21.6/18$

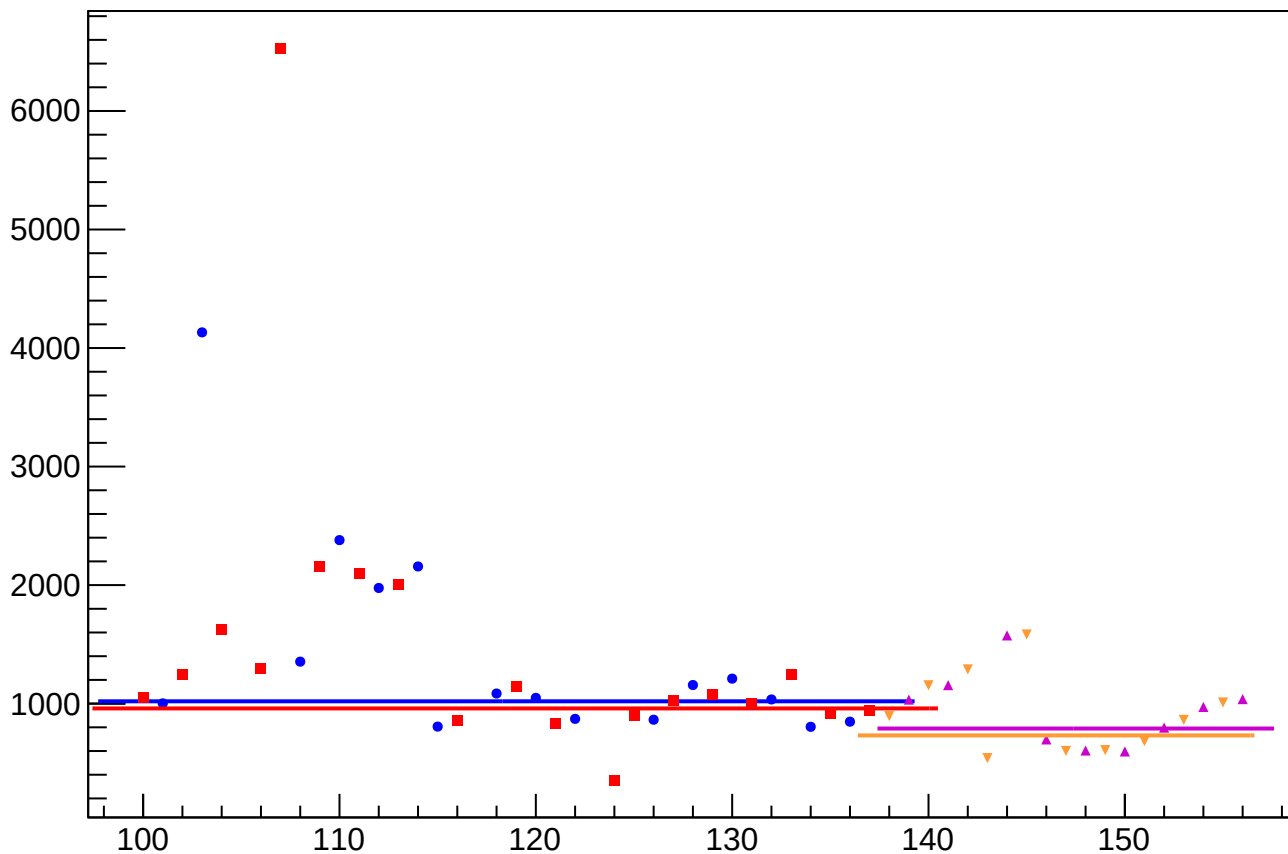
Right: -183.994 ± 284.604 $\chi^2/\text{NDF}: 28.5/34$

In: -33.964 ± 239.417 $\chi^2/\text{NDF}: 19.4/24$

Out: 285.281 ± 226.941 $\chi^2/\text{NDF}: 31.6/28$

All: 134.193 ± 164.705 $\chi^2/\text{NDF}: 52.0/53$

asym_atl1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1019.514+/-0.287 χ^2/NDF : 1364741.0/15

Left Out: 731.801+/-0.195 χ^2/NDF : 1402118.0/9

Right Out: 959.344+/-0.282 χ^2/NDF : 2344434.8/18

Left In: 789.773+/-0.210 χ^2/NDF : 1235235.9/8

Left: 758.689+/-0.143 χ^2/NDF : 2678335.6/18

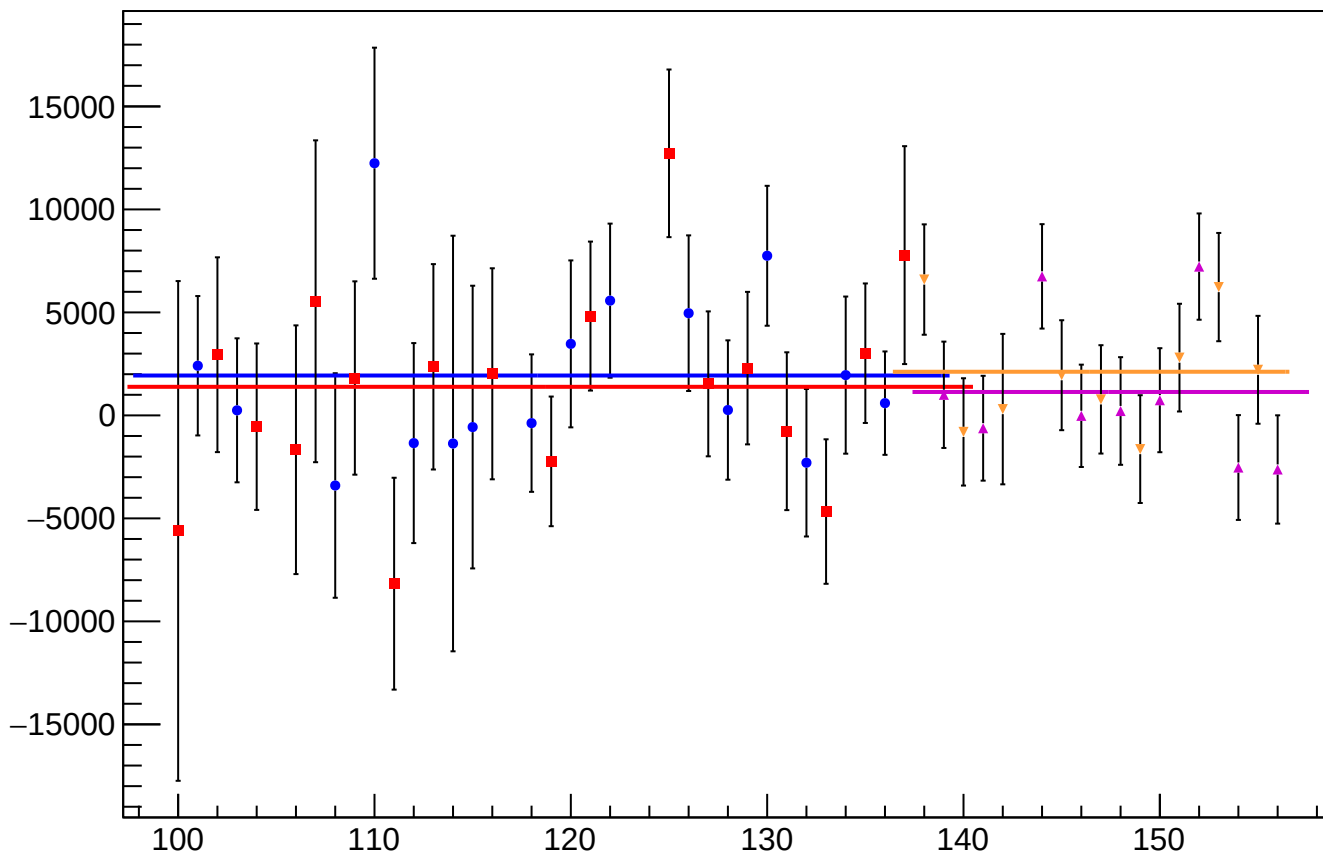
Right: 988.952+/-0.201 χ^2/NDF : 3731518.7/34

In: 869.773+/-0.169 χ^2/NDF : 3017951.3/24

Out: 805.289+/-0.160 χ^2/NDF : 4186191.9/28

All: 835.807+/-0.116 χ^2/NDF : 7280564.3/53

dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.992 $\pm$ 962.322 χ^2 /NDF: 12.4/15

Left Out: 2118.883 $\pm$ 901.889 χ^2 /NDF:9.1/8

Right Out: 1387.548 $\pm$ 1009.105 χ^2 /NDF: 19.8/17

Left In: 1136.603 $\pm$ 852.859 χ^2 /NDF:15.4/8

Left: 1600.318 $\pm$ 619.671 χ^2 /NDF: 25.2/17

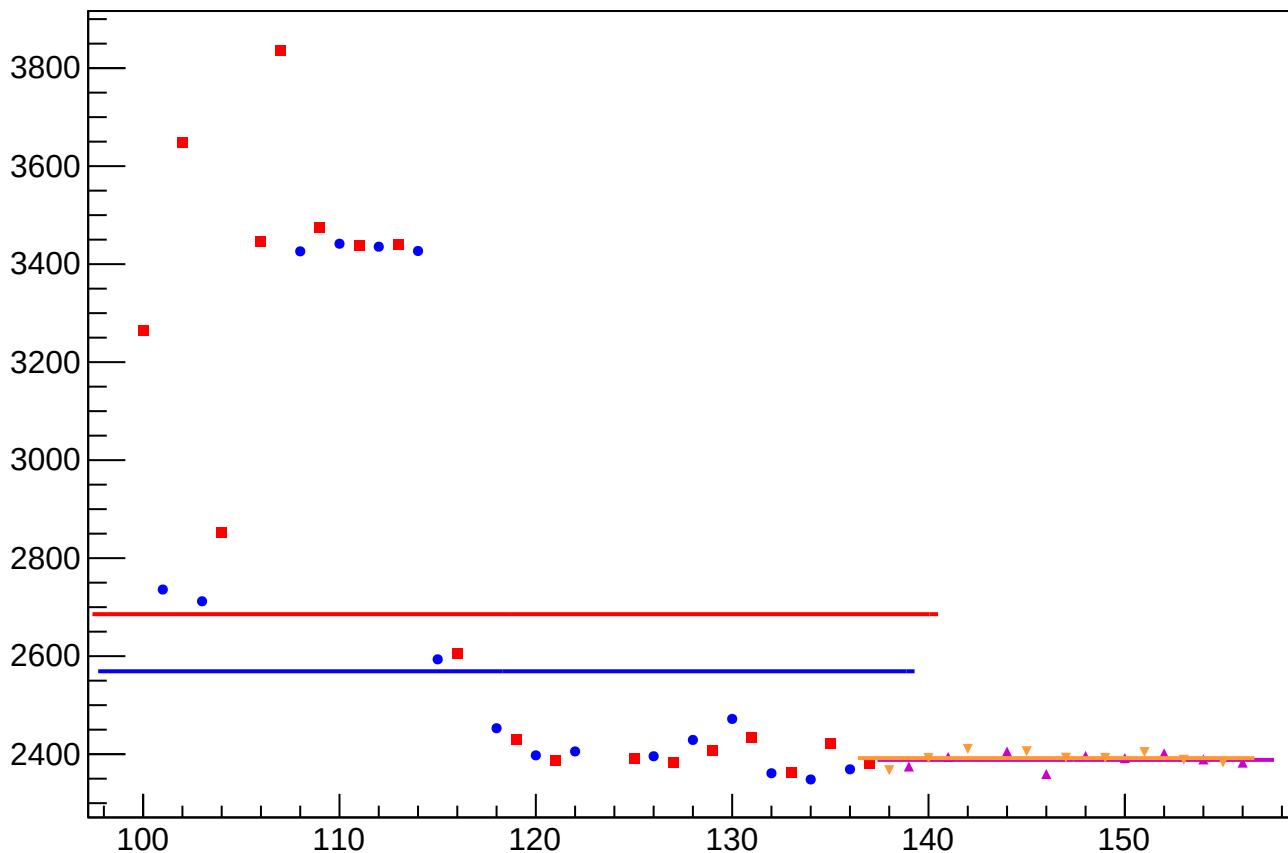
Right: 1674.777 $\pm$ 696.416 χ^2 /NDF: 32.3/33

In: 1488.266 $\pm$ 638.270 χ^2 /NDF:28.2/24

Out: 1794.118 $\pm$ 672.454 χ^2 /NDF:29.2/26

All: 1633.220 $\pm$ 462.938 χ^2 /NDF: 57.5/51

dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.5/15

Left Out: 2391.981+/-0.638 χ^2/NDF : 347.1/8

Right Out: 2685.675+/-0.714 χ^2/NDF : 419264.8/17

Left In: 2388.349+/-0.603 χ^2/NDF : 510.3/8

Left: 2390.064+/-0.438 χ^2/NDF : 874.5/17

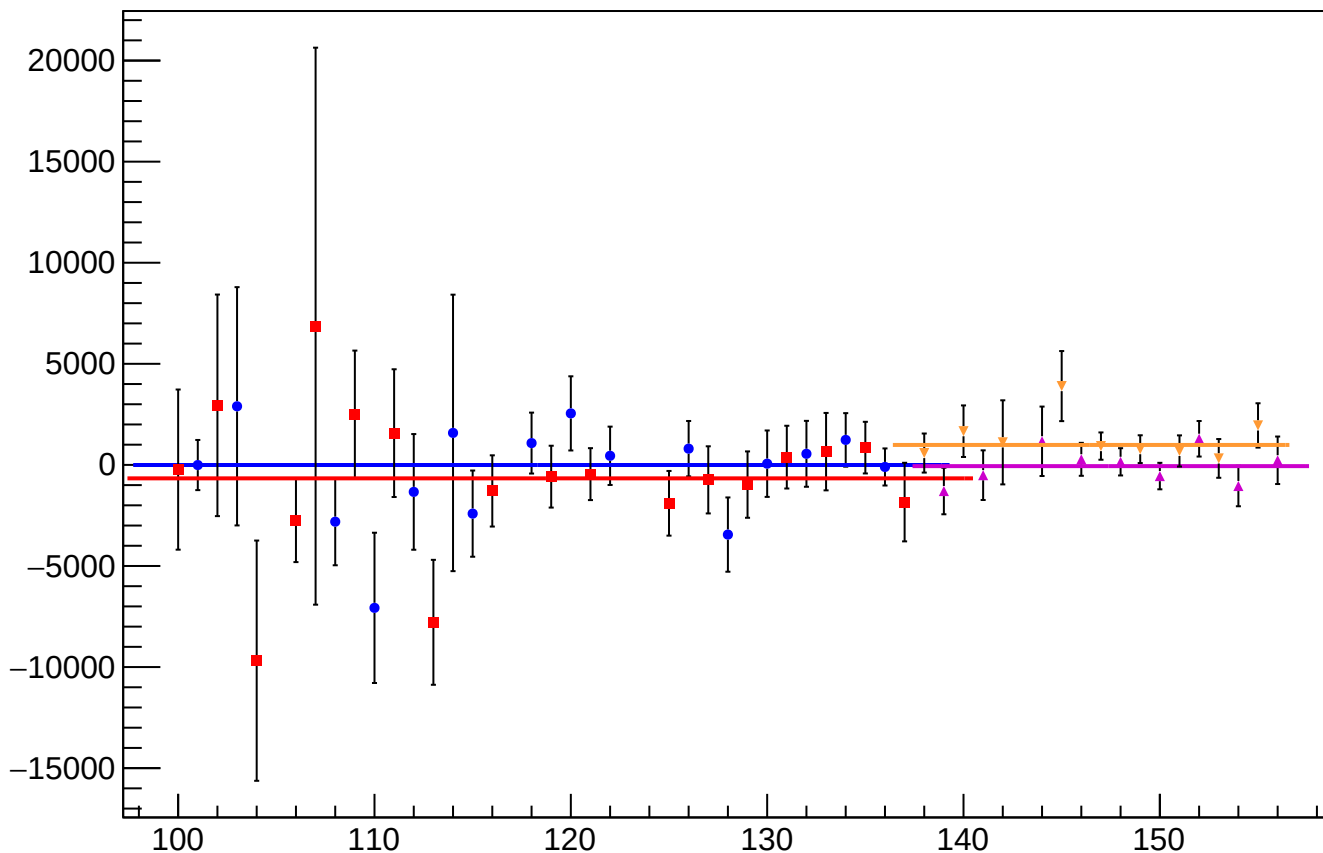
Right: 2624.638+/-0.492 χ^2/NDF : 662723.7/33

In: 2467.877+/-0.451 χ^2/NDF : 269529.6/24

Out: 2522.402+/-0.475 χ^2/NDF : 513793.3/26

All: 2493.719+/-0.327 χ^2/NDF : 790240.1/51

asym_atl1_dit_correction_mean vs Slug, Sign Corrected



Right In: -5.169 ± 412.248 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 986.948 ± 313.645 $\chi^2/\text{NDF}: 4.8/8$

Right Out: -665.952 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: -60.792 ± 304.202 $\chi^2/\text{NDF}: 6.0/8$

Left: 447.067 ± 218.365 $\chi^2/\text{NDF}: 16.6/17$

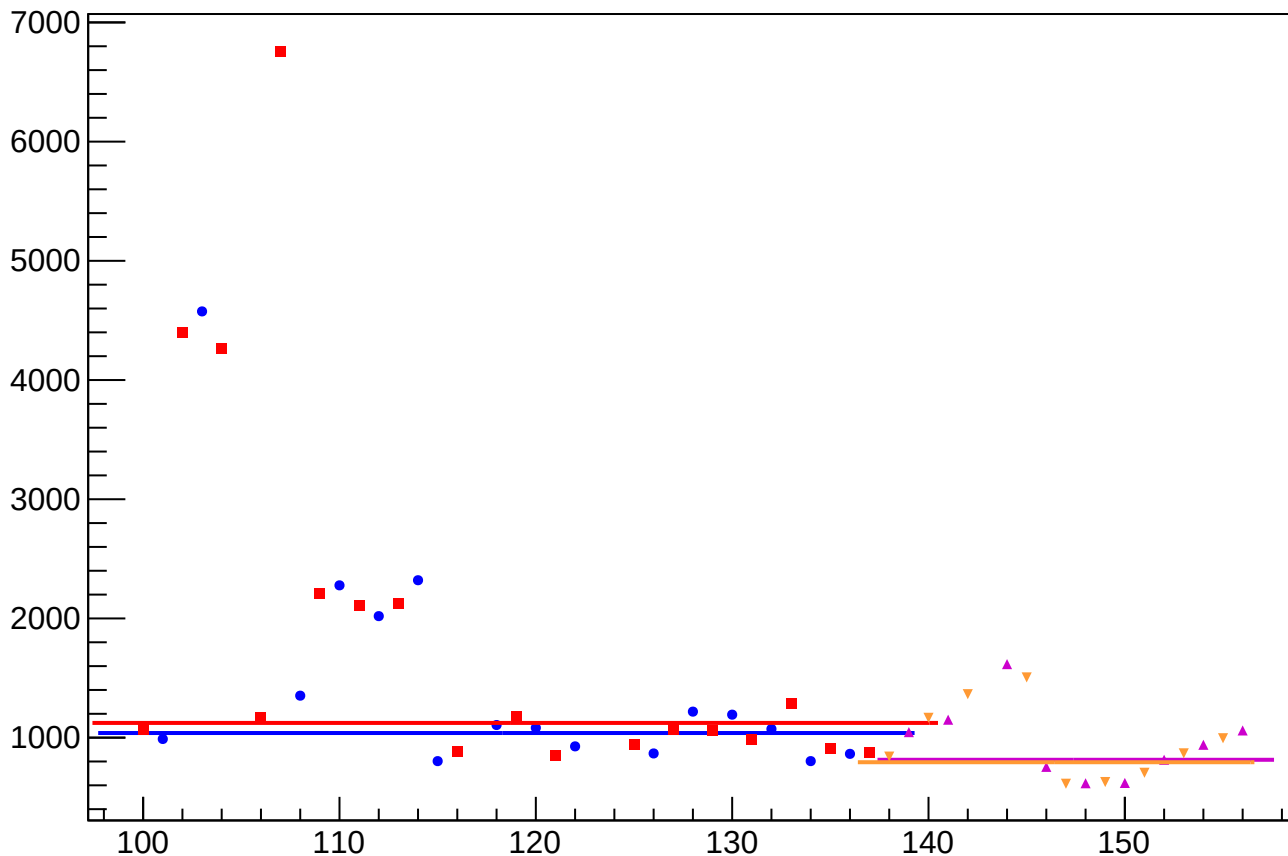
Right: -299.130 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: -41.183 ± 244.774 $\chi^2/\text{NDF}: 20.5/24$

Out: 463.180 ± 259.232 $\chi^2/\text{NDF}: 28.0/26$

All: 196.543 ± 177.973 $\chi^2/\text{NDF}: 50.5/51$

asym_atl1_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.803 ± 0.292 $\chi^2/\text{NDF}: 1539731.1/15$

Left Out: 793.804 ± 0.222 $\chi^2/\text{NDF}: 1028695.4/8$

Right Out: 1123.474 ± 0.326 $\chi^2/\text{NDF}: 2535511.7/17$

Left In: 814.274 ± 0.215 $\chi^2/\text{NDF}: 1144601.7/8$

Left: 804.352 ± 0.154 $\chi^2/\text{NDF}: 2177686.6/17$

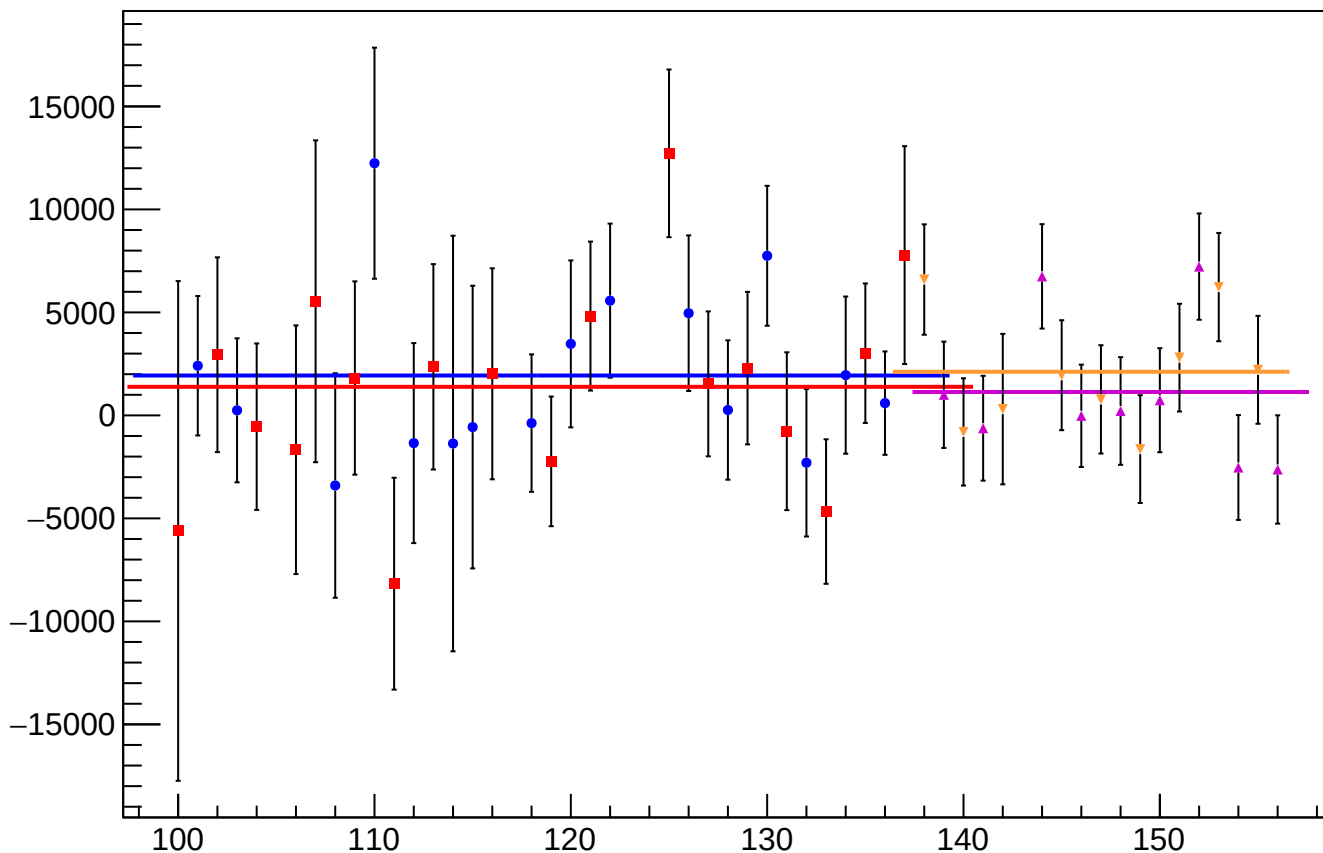
Right: 1076.470 ± 0.217 $\chi^2/\text{NDF}: 4112776.2/33$

In: 893.431 ± 0.173 $\chi^2/\text{NDF}: 3068452.1/24$

Out: 898.270 ± 0.183 $\chi^2/\text{NDF}: 4264376.5/26$

All: 895.712 ± 0.126 $\chi^2/\text{NDF}: 7333197.0/51$

eigen_dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.988+/-962.322 χ^2/NDF : 12.4/15

Left Out: 2118.885+/-901.889 χ^2/NDF : 9.1/8

Right Out: 1387.545+/-1009.105 χ^2/NDF : 19.8/17

Left In: 1136.602+/-852.859 χ^2/NDF : 15.4/8

Left: 1600.319+/-619.671 χ^2/NDF : 25.2/17

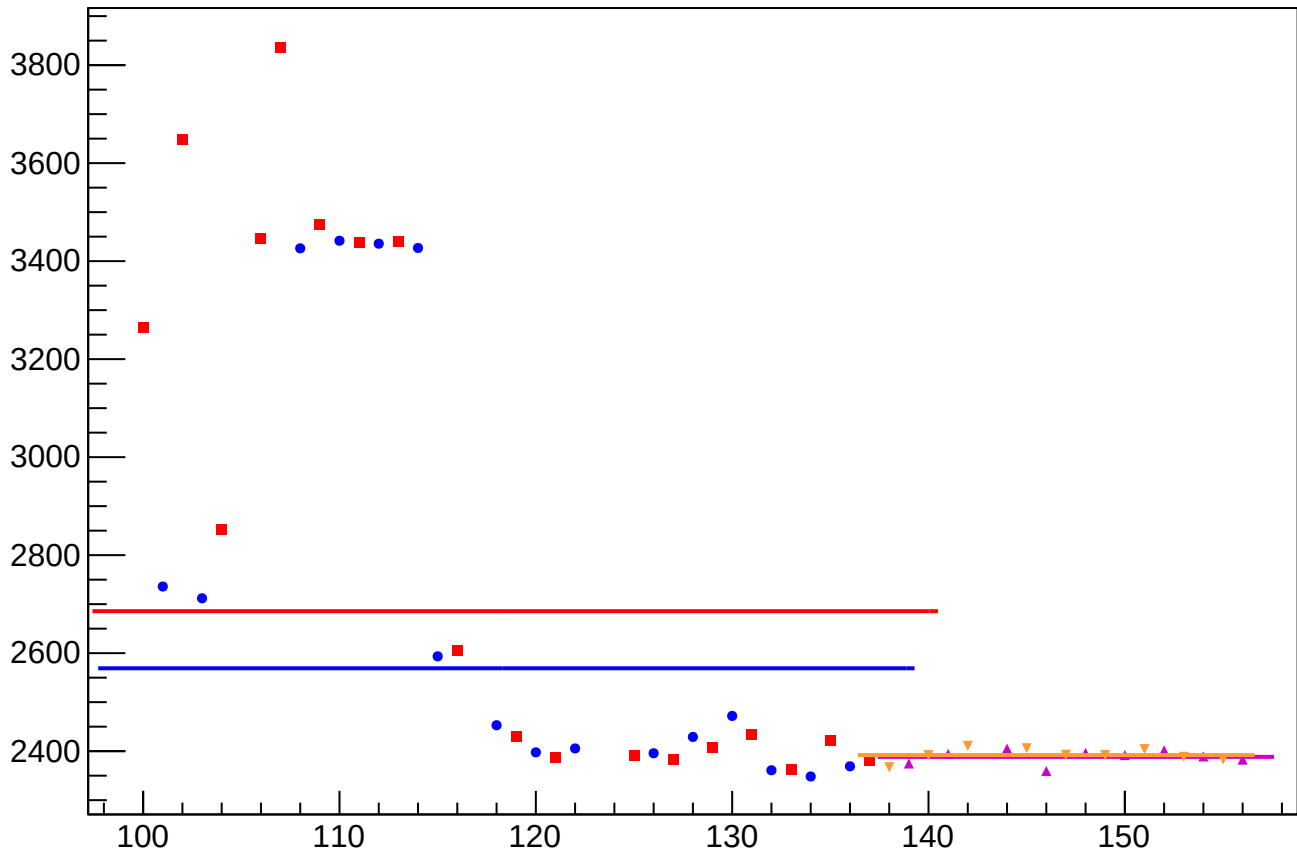
Right: 1674.774+/-696.416 χ^2/NDF : 32.3/33

In: 1488.264+/-638.270 χ^2/NDF : 28.2/24

Out: 1794.118+/-672.454 χ^2/NDF : 29.2/26

All: 1633.220+/-462.938 χ^2/NDF : 57.5/51

eigen_dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.3/15

Left Out: 2391.981+/-0.638 χ^2/NDF : 347.1/8

Right Out: 2685.674+/-0.714 χ^2/NDF : 419264.2/17

Left In: 2388.349+/-0.603 χ^2/NDF : 510.3/8

Left: 2390.064+/-0.438 χ^2/NDF : 874.5/17

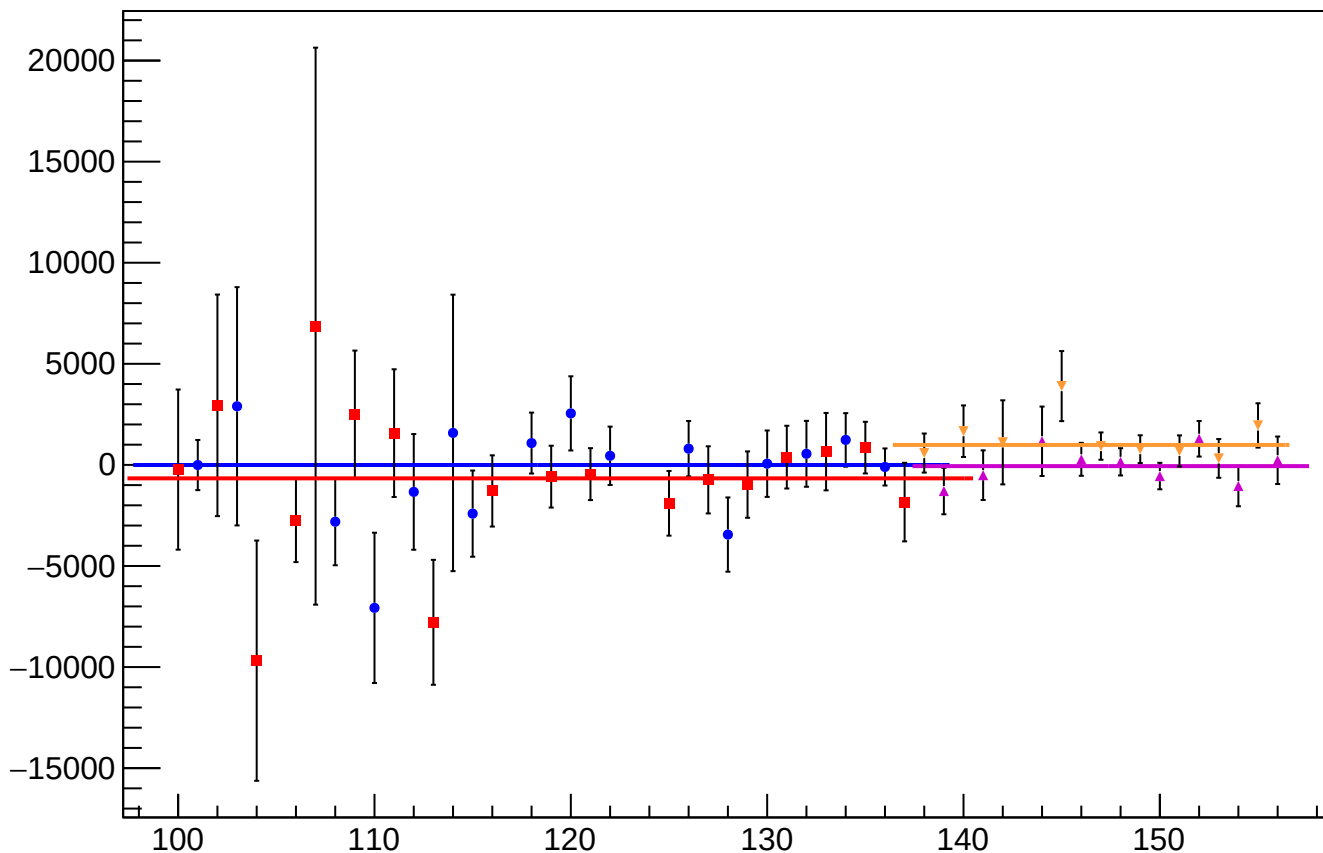
Right: 2624.638+/-0.492 χ^2/NDF : 662722.8/33

In: 2467.877+/-0.451 χ^2/NDF : 269529.2/24

Out: 2522.402+/-0.475 χ^2/NDF : 513792.5/26

All: 2493.718+/-0.327 χ^2/NDF : 790238.8/51

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: 986.949 ± 313.646 $\chi^2/\text{NDF}: 4.8/8$

Right Out: -665.953 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: -60.792 ± 304.202 $\chi^2/\text{NDF}: 6.0/8$

Left: 447.068 ± 218.366 $\chi^2/\text{NDF}: 16.6/17$

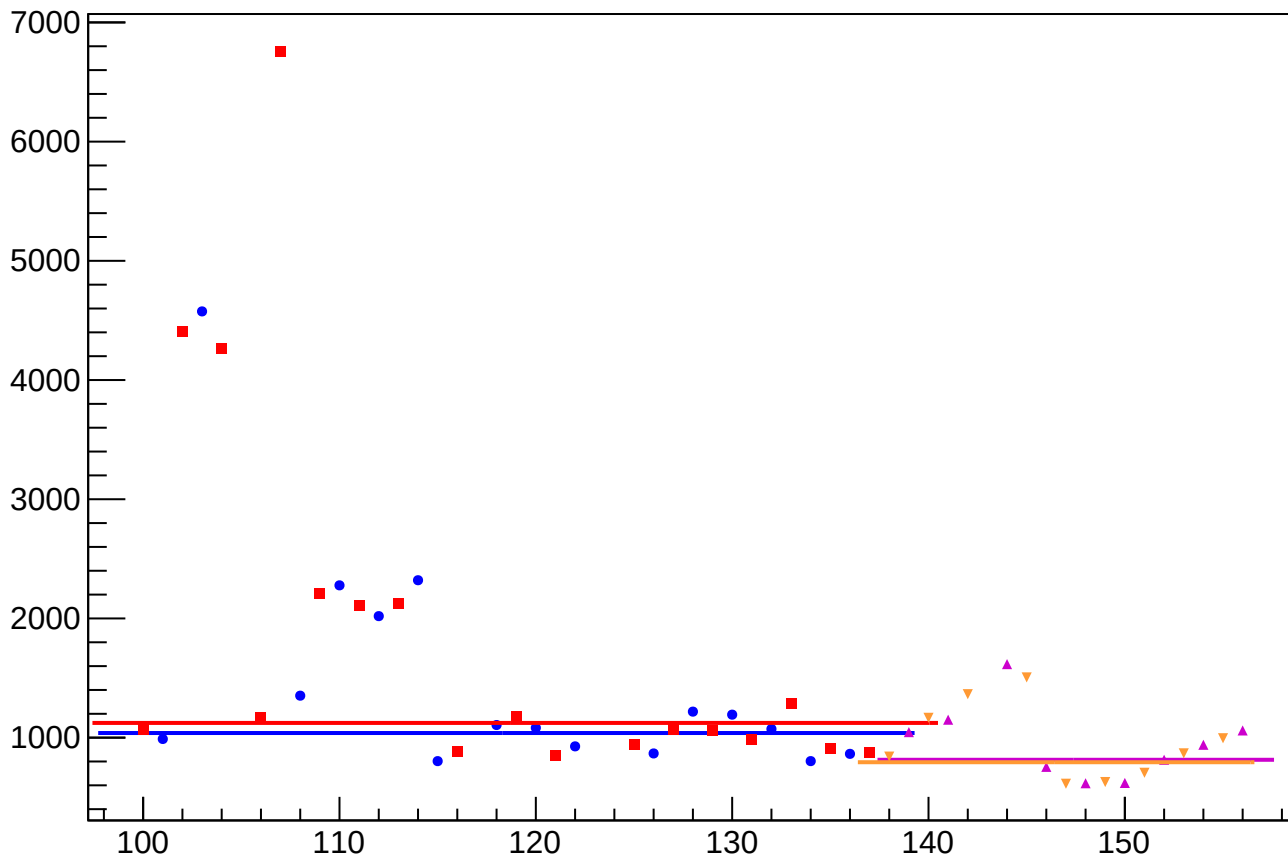
Right: -299.132 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: -41.183 ± 244.775 $\chi^2/\text{NDF}: 20.5/24$

Out: 463.179 ± 259.232 $\chi^2/\text{NDF}: 28.0/26$

All: 196.542 ± 177.973 $\chi^2/\text{NDF}: 50.5/51$

asym_atl1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.804+/-0.292 χ^2/NDF : 1539724.8/15

Left Out: 793.806+/-0.222 χ^2/NDF : 1028693.1/8

Right Out: 1123.474+/-0.326 χ^2/NDF : 2535509.9/17

Left In: 814.275+/-0.215 χ^2/NDF : 1144599.1/8

Left: 804.353+/-0.154 χ^2/NDF : 2177681.8/17

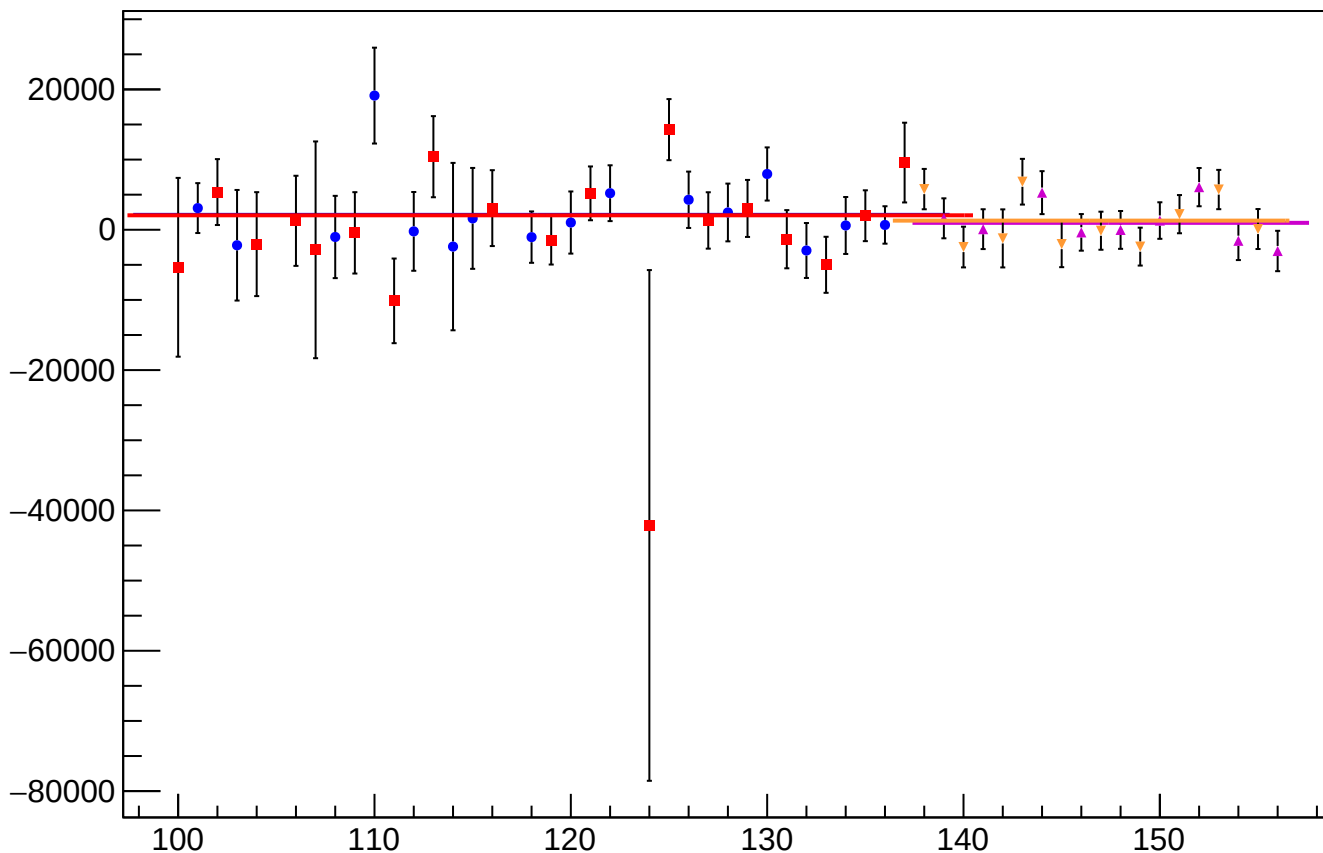
Right: 1076.471+/-0.217 χ^2/NDF : 4112767.4/33

In: 893.432+/-0.173 χ^2/NDF : 3068440.4/24

Out: 898.271+/-0.183 χ^2/NDF : 4264366.6/26

All: 895.713+/-0.126 χ^2/NDF : 7333175.4/51

asym_atl1_mean vs Slug, Sign Corrected



Right In: 2121.991 $\pm$ 1084.700 χ^2 /NDF: 13.4/15

Left Out: 1301.393 $\pm$ 935.294 χ^2 /NDF:13.4/9

Right Out: 2059.741 $\pm$ 1136.807 χ^2 /NDF: 24.3/18

Left In: 985.123 $\pm$ 923.143 χ^2 /NDF:8.8/8

Left: 1141.190 $\pm$ 657.015 χ^2 /NDF: 22.3/18

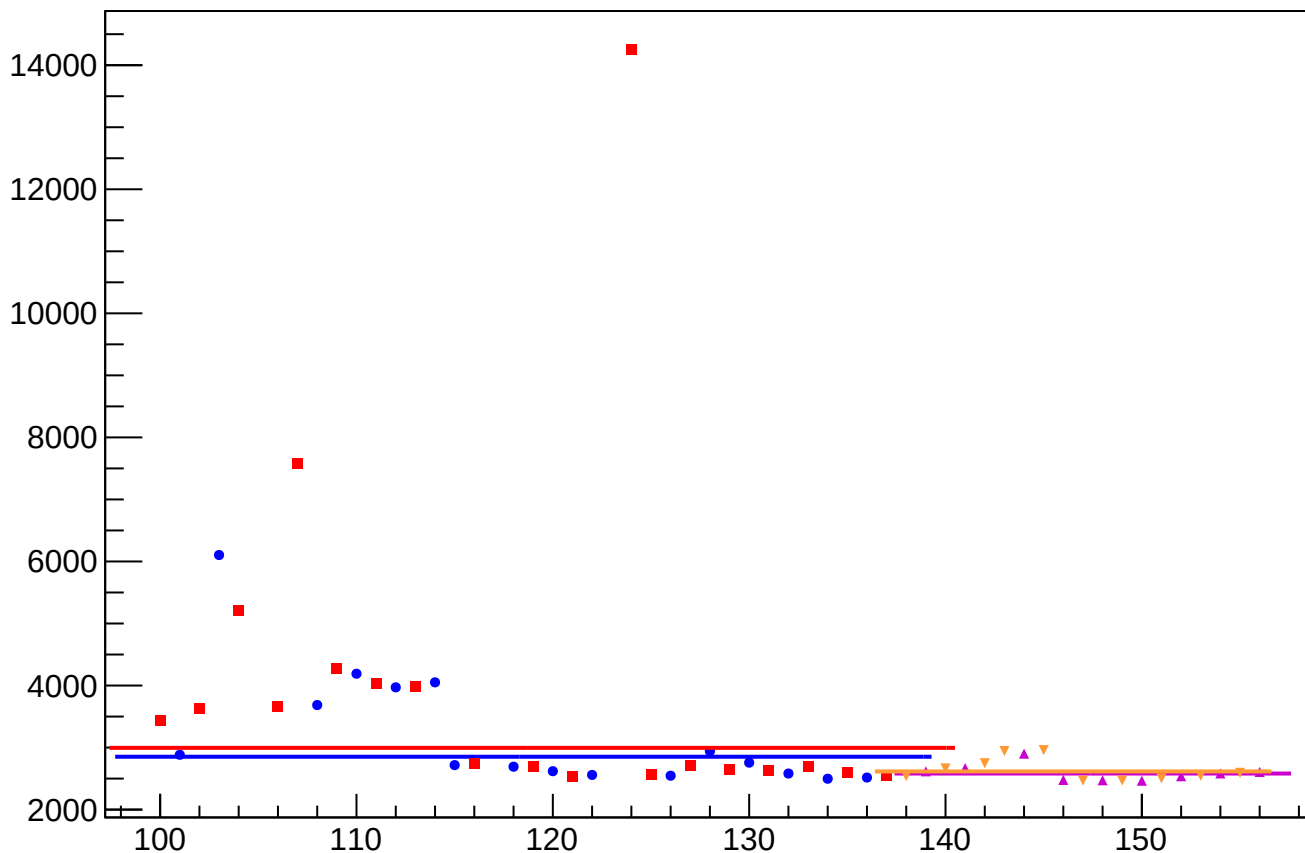
Right: 2092.326 $\pm$ 784.773 χ^2 /NDF: 37.7/34

In: 1462.670 $\pm$ 703.012 χ^2 /NDF:22.8/24

Out: 1607.508 $\pm$ 722.262 χ^2 /NDF:38.0/28

All: 1533.133 $\pm$ 503.773 χ^2 /NDF: 60.8/53

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2852.206+/-0.767 χ^2/NDF : 648715.2/15

Left Out: 2615.304+/-0.661 χ^2/NDF : 62653.9/9

Right Out: 2995.525+/-0.804 χ^2/NDF : 979168.6/18

Left In: 2581.478+/-0.653 χ^2/NDF : 35135.1/8

Left: 2598.170+/-0.465 χ^2/NDF : 99114.1/18

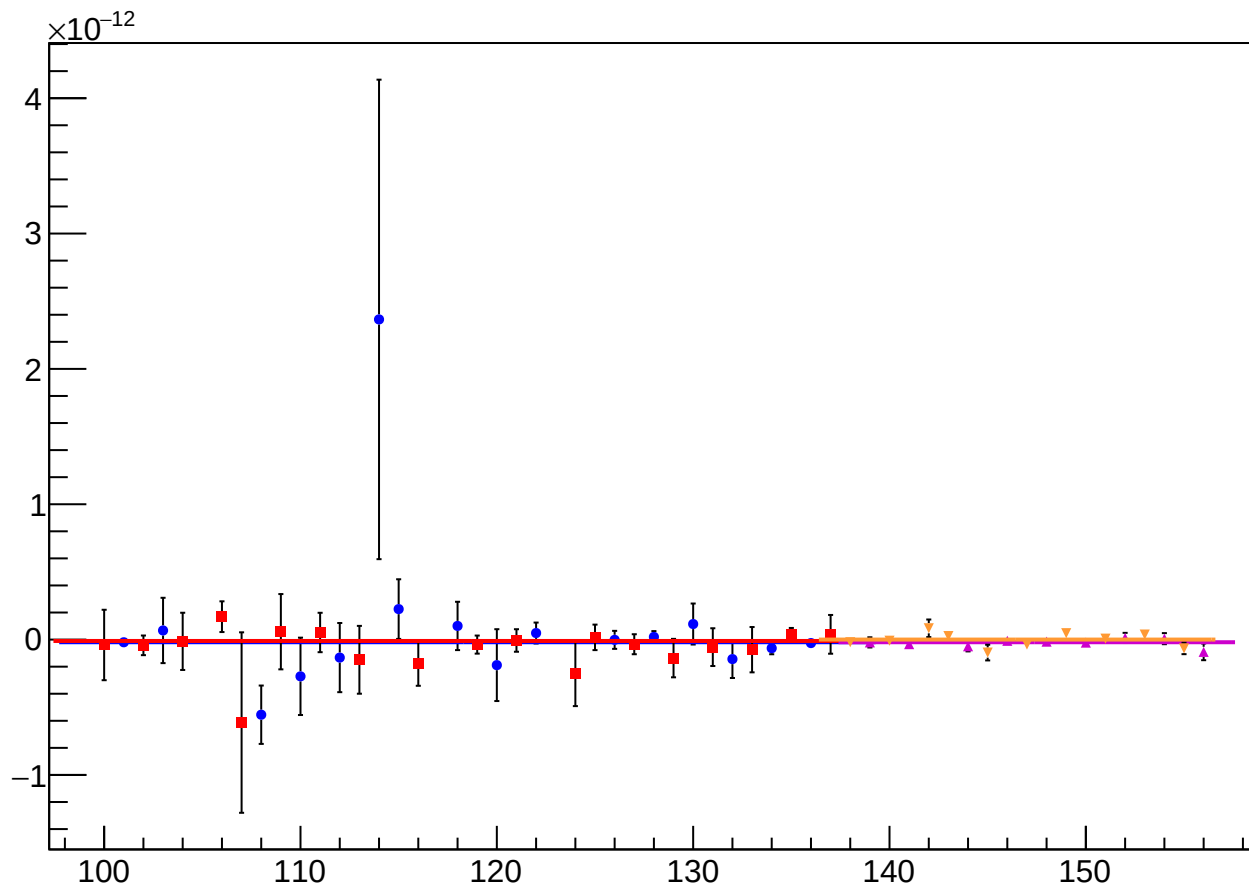
Right: 2920.506+/-0.555 χ^2/NDF : 1644523.2/34

In: 2695.198+/-0.497 χ^2/NDF : 756104.7/24

Out: 2768.784+/-0.511 χ^2/NDF : 1175243.5/28

All: 2730.997+/-0.356 χ^2/NDF : 1942008.5/53

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:15.8/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 8.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:3.5/8

Left: -0.000+/-0.000 χ^2 /NDF: 21.3/18

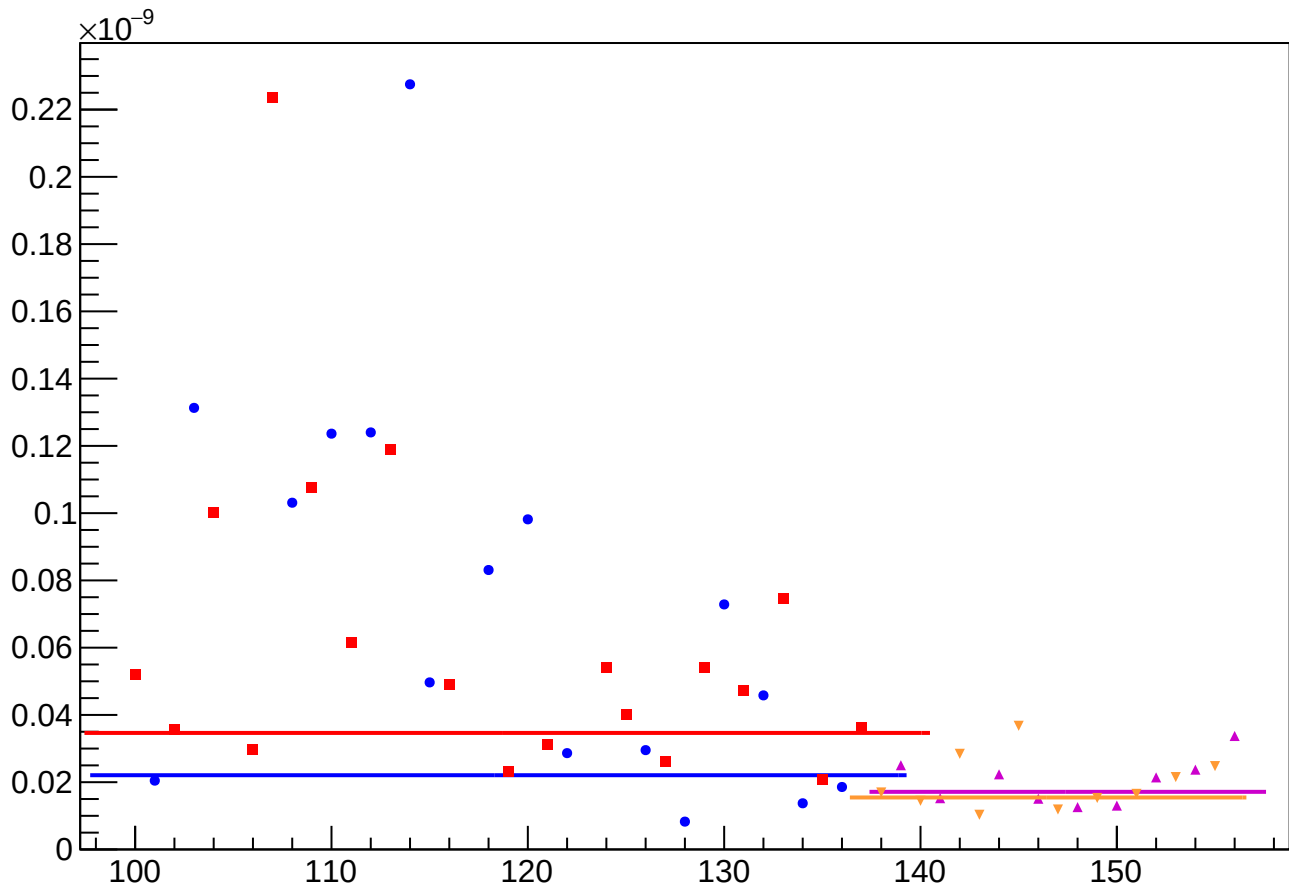
Right: -0.000+/-0.000 χ^2 /NDF: 23.8/34

In: -0.000+/-0.000 χ^2 /NDF:18.9/24

Out: -0.000+/-0.000 χ^2 /NDF:24.3/28

All: -0.000+/-0.000 χ^2 /NDF: 45.4/53

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 : 706609.3/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 1242991.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 505825.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 1241445.6/18

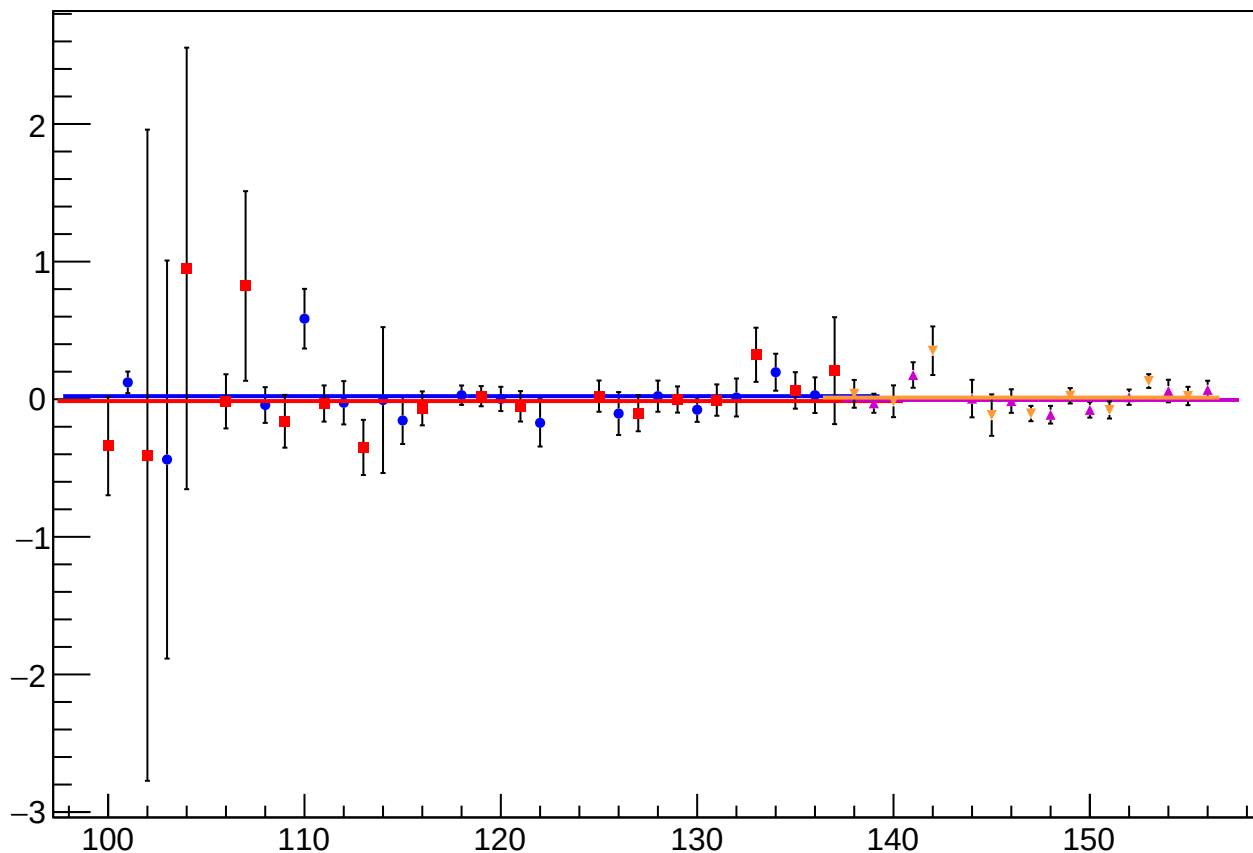
Right: 0.000 ± 0.000 χ^2/NDF : 3942150.2/34

In: 0.000 ± 0.000 χ^2/NDF : 2970848.2/24

Out: 0.000 ± 0.000 χ^2/NDF : 3032949.8/28

All: 0.000 ± 0.000 χ^2/NDF : 6009818.9/53

asym_atl1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.012 ± 0.024 $\chi^2/\text{NDF}: 16.8/8$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: -0.005 ± 0.024 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.003 ± 0.017 $\chi^2/\text{NDF}: 27.4/17$

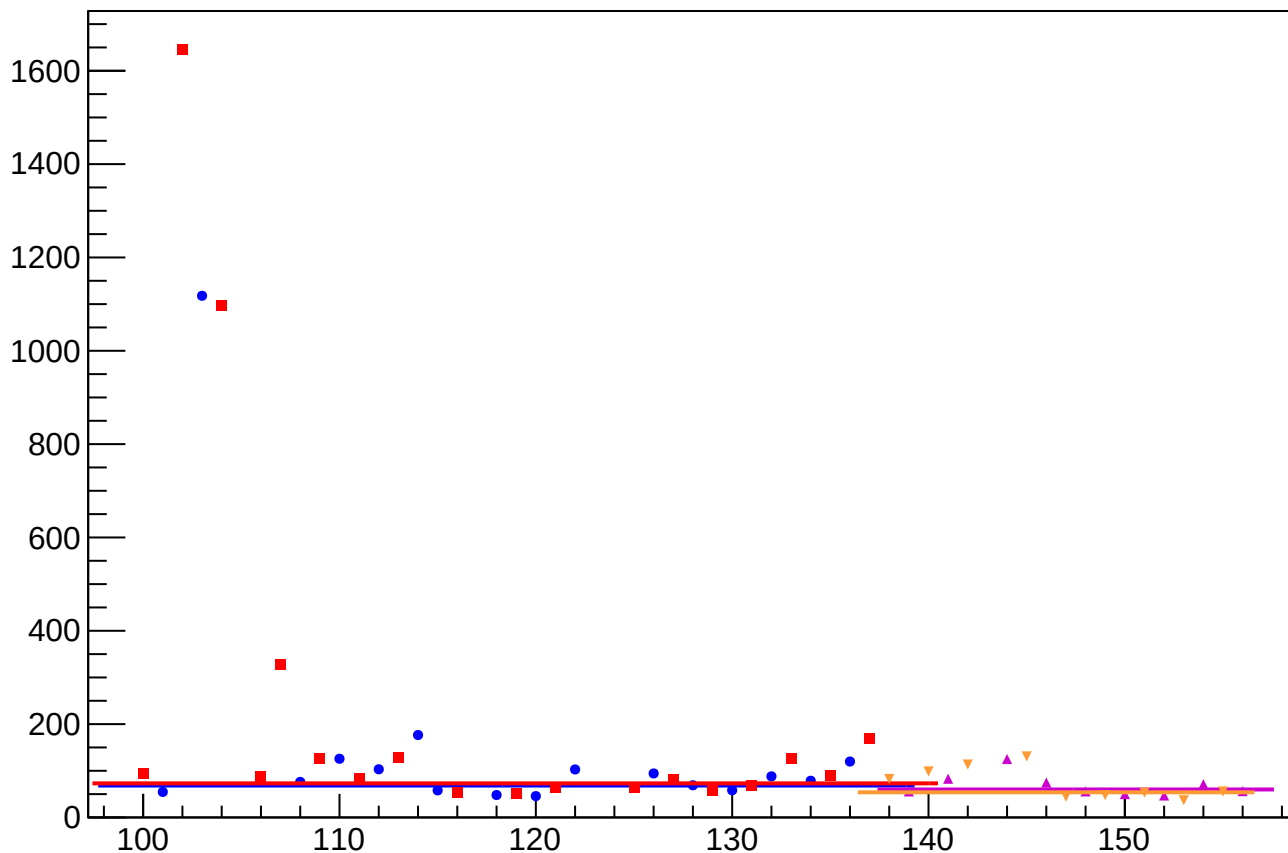
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.005 ± 0.019 $\chi^2/\text{NDF}: 25.7/24$

Out: 0.003 ± 0.019 $\chi^2/\text{NDF}: 28.0/26$

All: 0.004 ± 0.013 $\chi^2/\text{NDF}: 53.7/51$

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: 53.864 $\pm$ 0.017 χ^2 /NDF: 1517608.9/8

Right Out: 73.072 $\pm$ 0.024 χ^2 /NDF: 2913147.6/17

Left In: 59.968 $\pm$ 0.017 χ^2 /NDF: 871220.1/8

Left: 56.915 $\pm$ 0.012 χ^2 /NDF: 2454774.8/17

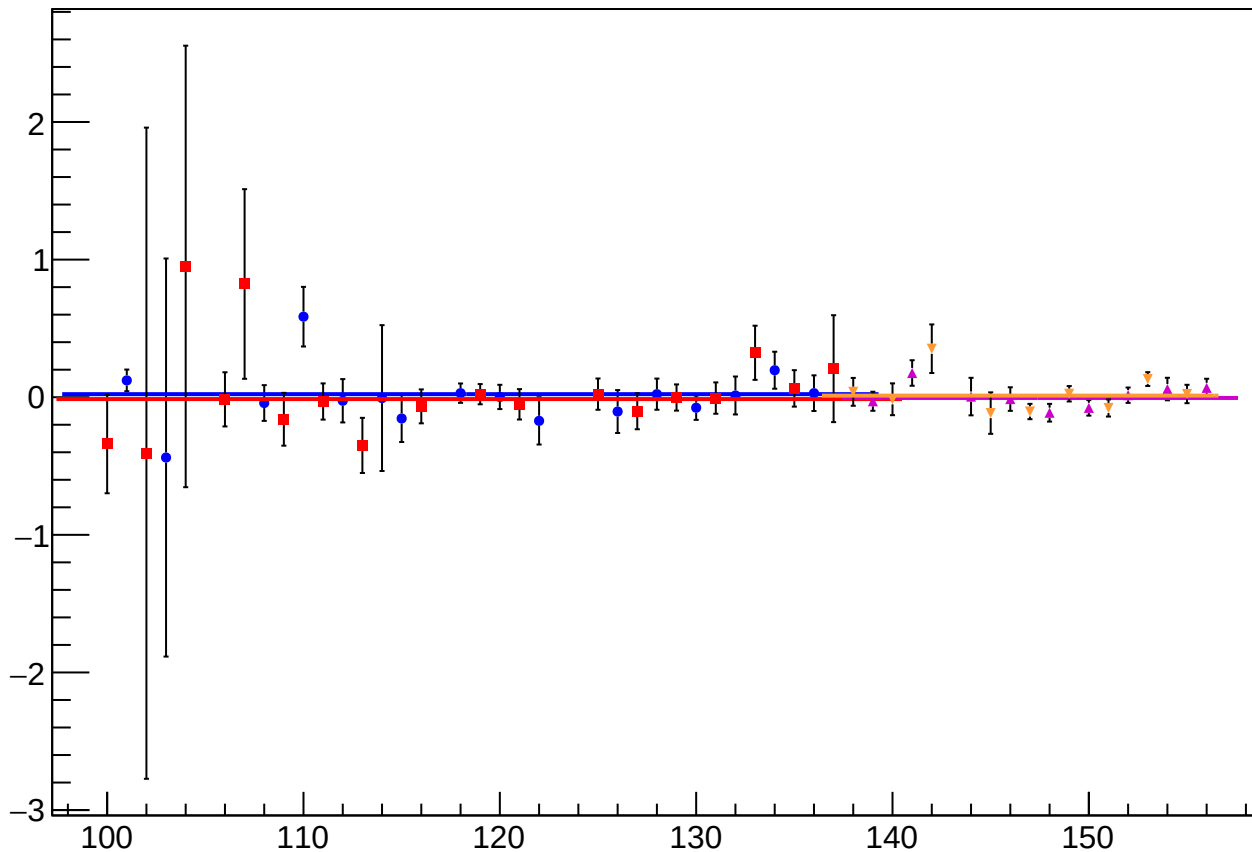
Right: 70.509 $\pm$ 0.016 χ^2 /NDF: 5212470.4/33

In: 63.212 $\pm$ 0.013 χ^2 /NDF: 3246440.8/24

Out: 60.299 $\pm$ 0.014 χ^2 /NDF: 4868549.6/26

All: 61.810 $\pm$ 0.010 χ^2 /NDF: 8138418.6/51

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.030 χ^2 /NDF: 14.8/15

Left Out: 0.012 $\pm$ 0.024 χ^2 /NDF:16.8/8

Right Out: -0.013 $\pm$ 0.033 χ^2 /NDF: 10.8/17

Left In: -0.005 $\pm$ 0.024 χ^2 /NDF:10.4/8

Left: 0.003 $\pm$ 0.017 χ^2 /NDF: 27.4/17

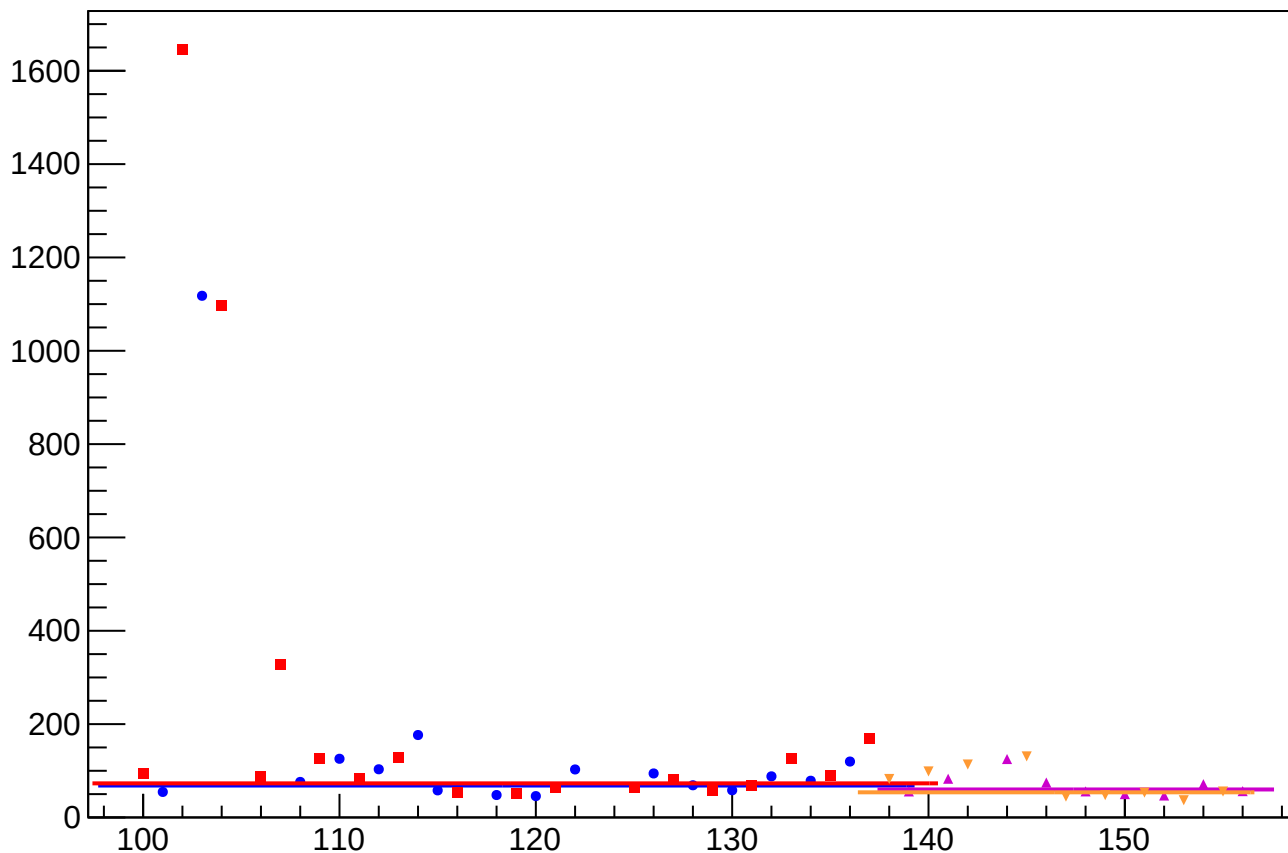
Right: 0.006 $\pm$ 0.022 χ^2 /NDF: 26.3/33

In: 0.005 $\pm$ 0.019 χ^2 /NDF:25.7/24

Out: 0.003 $\pm$ 0.019 χ^2 /NDF:28.0/26

All: 0.004 $\pm$ 0.013 χ^2 /NDF: 53.7/51

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: 53.864+/-0.017 χ^2/NDF : 1517608.9/8

Right Out: 73.072+/-0.024 χ^2/NDF : 2913147.6/17

Left In: 59.968+/-0.017 χ^2/NDF : 871220.1/8

Left: 56.915+/-0.012 χ^2/NDF : 2454774.8/17

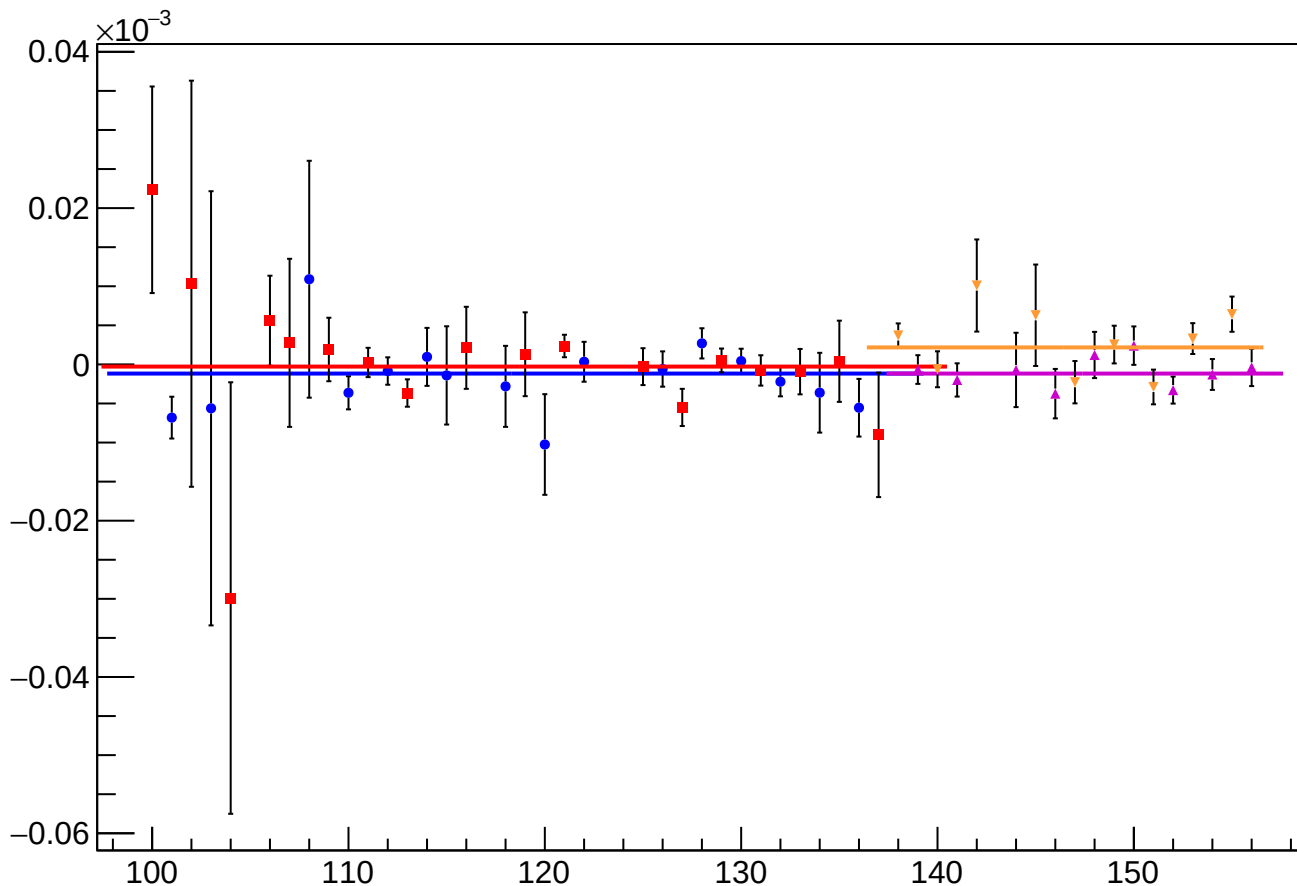
Right: 70.509+/-0.016 χ^2/NDF : 5212470.4/33

In: 63.212+/-0.013 χ^2/NDF : 3246440.8/24

Out: 60.299+/-0.014 χ^2/NDF : 4868549.6/26

All: 61.810+/-0.010 χ^2/NDF : 8138418.6/51

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 : 16.5/8

Right Out: -0.000 ± 0.000 χ^2/NDF : 19.5/17

Left In: -0.000 ± 0.000 χ^2/NDF : 5.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 31.1/17

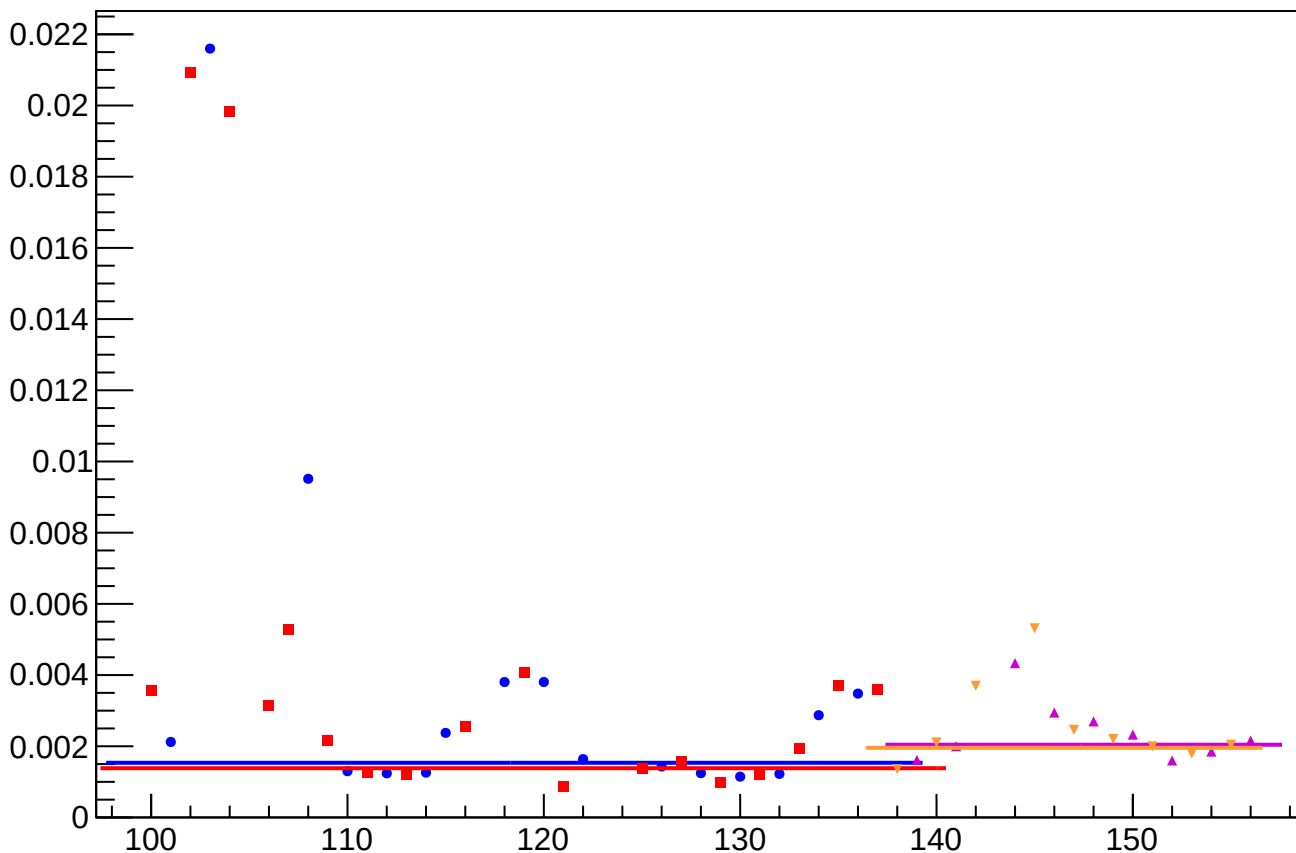
Right: -0.000 ± 0.000 χ^2/NDF : 36.8/33

In: -0.000 ± 0.000 χ^2/NDF : 21.6/24

Out: 0.000 ± 0.000 χ^2/NDF : 42.0/26

All: -0.000 ± 0.000 χ^2/NDF : 70.5/51

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 :1129066.8/8

Right Out: 0.001+/-0.000 χ^2/NDF : 4269081.2/17

Left In: 0.002+/-0.000 χ^2/NDF :1017452.6/8

Left: 0.002+/-0.000 χ^2/NDF : 2158998.4/17

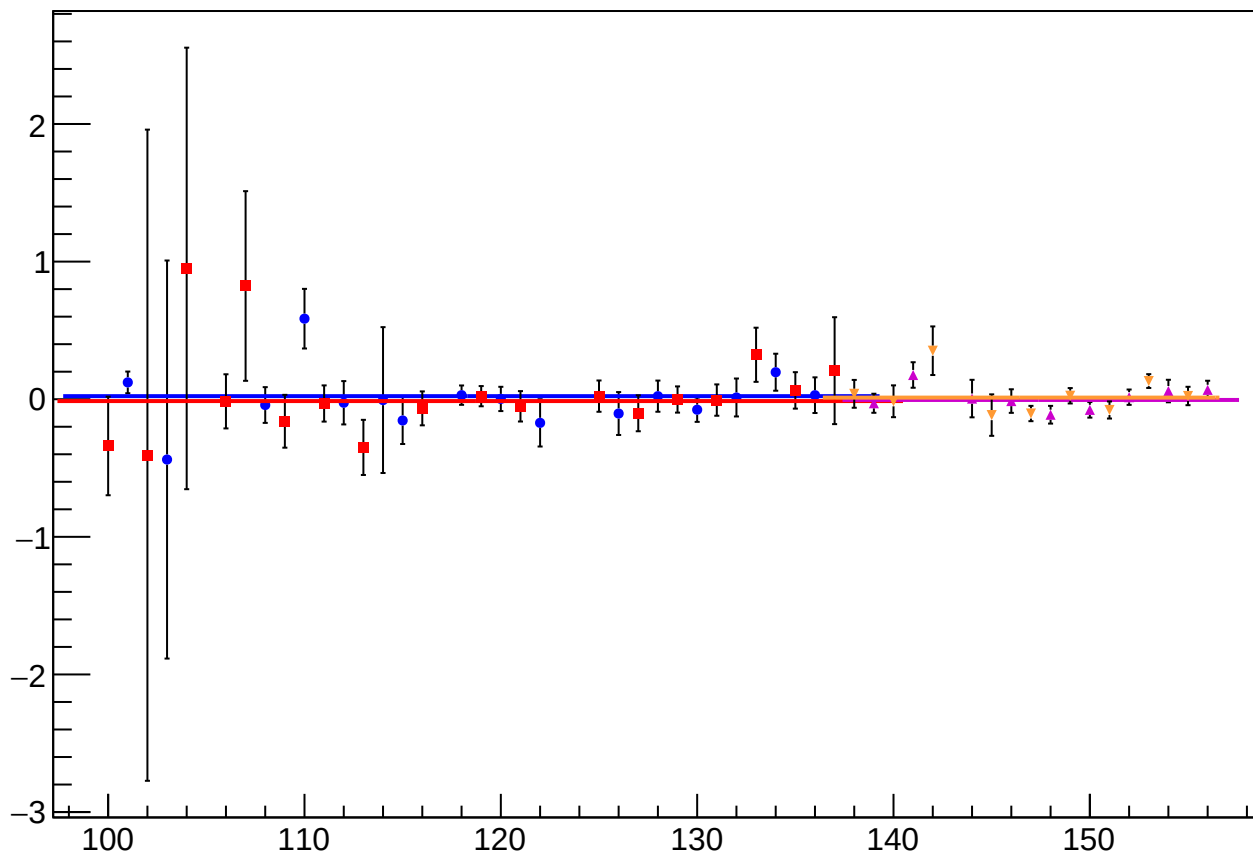
Right: 0.001+/-0.000 χ^2/NDF : 7697891.2/33

In: 0.002+/-0.000 χ^2/NDF :4892485.9/24

Out: 0.002+/-0.000 χ^2/NDF :6044139.2/26

All: 0.002+/-0.000 χ^2/NDF : 11020435.1/51

asym_atl1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.012 ± 0.024 $\chi^2/\text{NDF}: 16.8/8$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: -0.005 ± 0.024 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.003 ± 0.017 $\chi^2/\text{NDF}: 27.4/17$

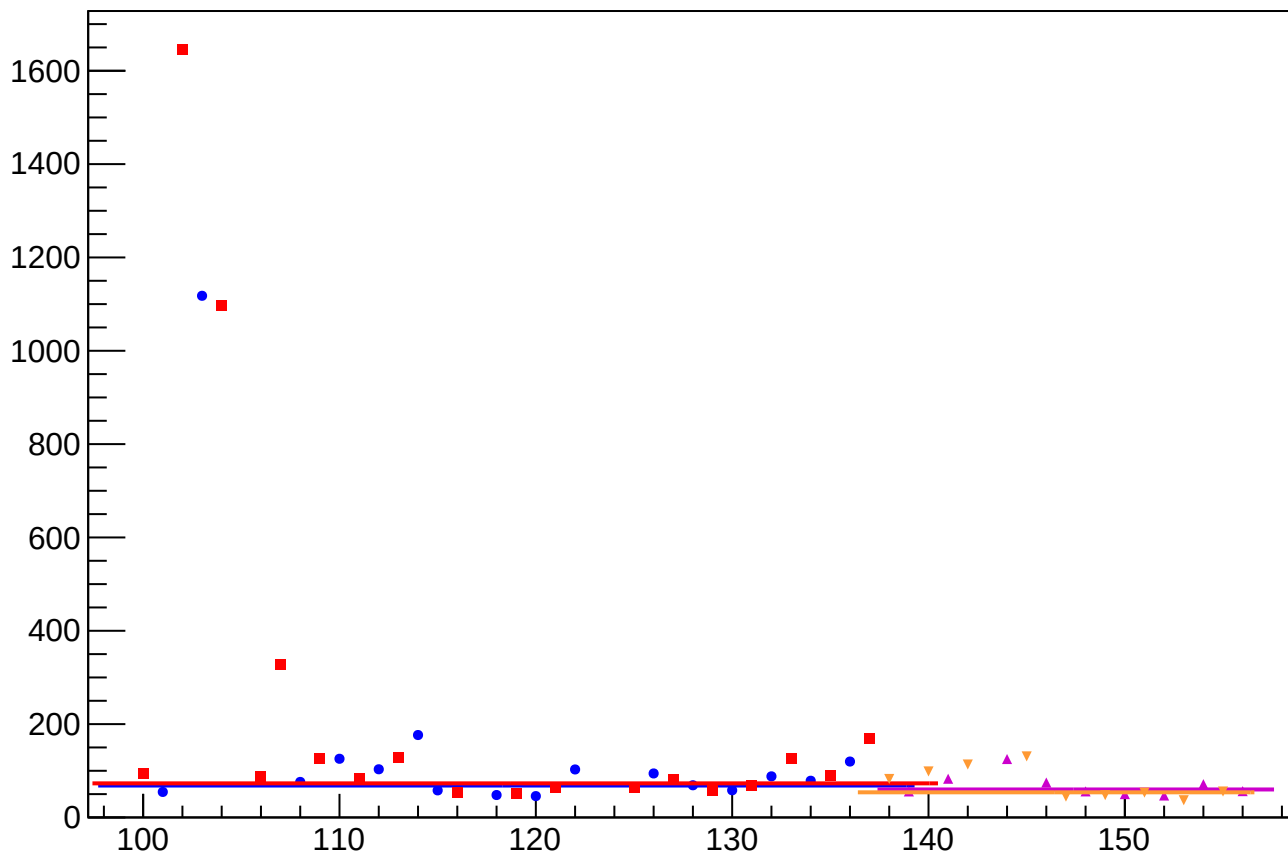
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.005 ± 0.019 $\chi^2/\text{NDF}: 25.7/24$

Out: 0.003 ± 0.019 $\chi^2/\text{NDF}: 28.0/26$

All: 0.004 ± 0.013 $\chi^2/\text{NDF}: 53.7/51$

asym_atl1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428+/-0.021 χ^2/NDF : 2278168.9/15

Left Out: 53.864+/-0.017 χ^2/NDF : 1517666.3/8

Right Out: 73.072+/-0.024 χ^2/NDF : 2913161.9/17

Left In: 59.968+/-0.017 χ^2/NDF : 871212.1/8

Left: 56.915+/-0.012 χ^2/NDF : 2454835.1/17

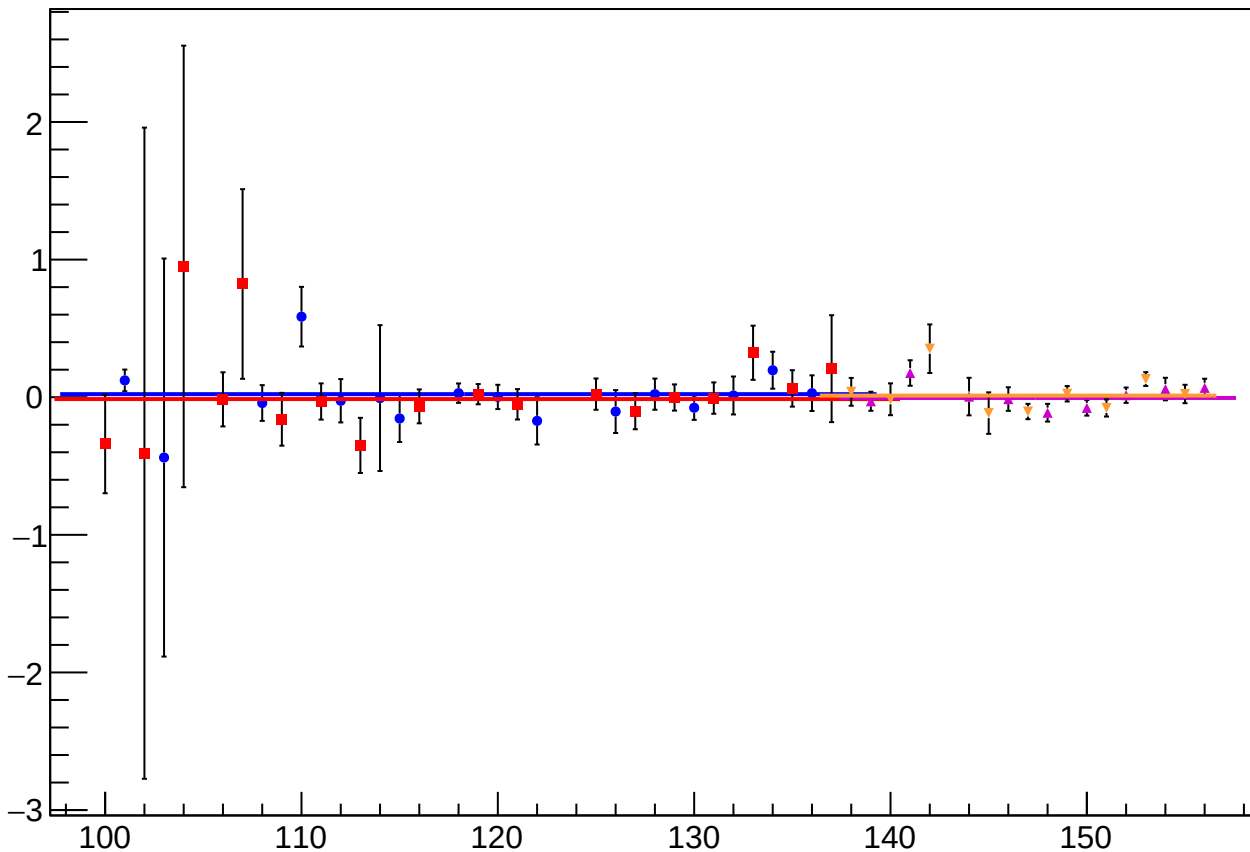
Right: 70.508+/-0.016 χ^2/NDF : 5212574.0/33

In: 63.211+/-0.013 χ^2/NDF : 3246494.4/24

Out: 60.299+/-0.014 χ^2/NDF : 4868619.1/26

All: 61.809+/-0.010 χ^2/NDF : 8138544.2/51

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.012 ± 0.024 $\chi^2/\text{NDF}: 16.8/8$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: -0.005 ± 0.024 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.003 ± 0.017 $\chi^2/\text{NDF}: 27.4/17$

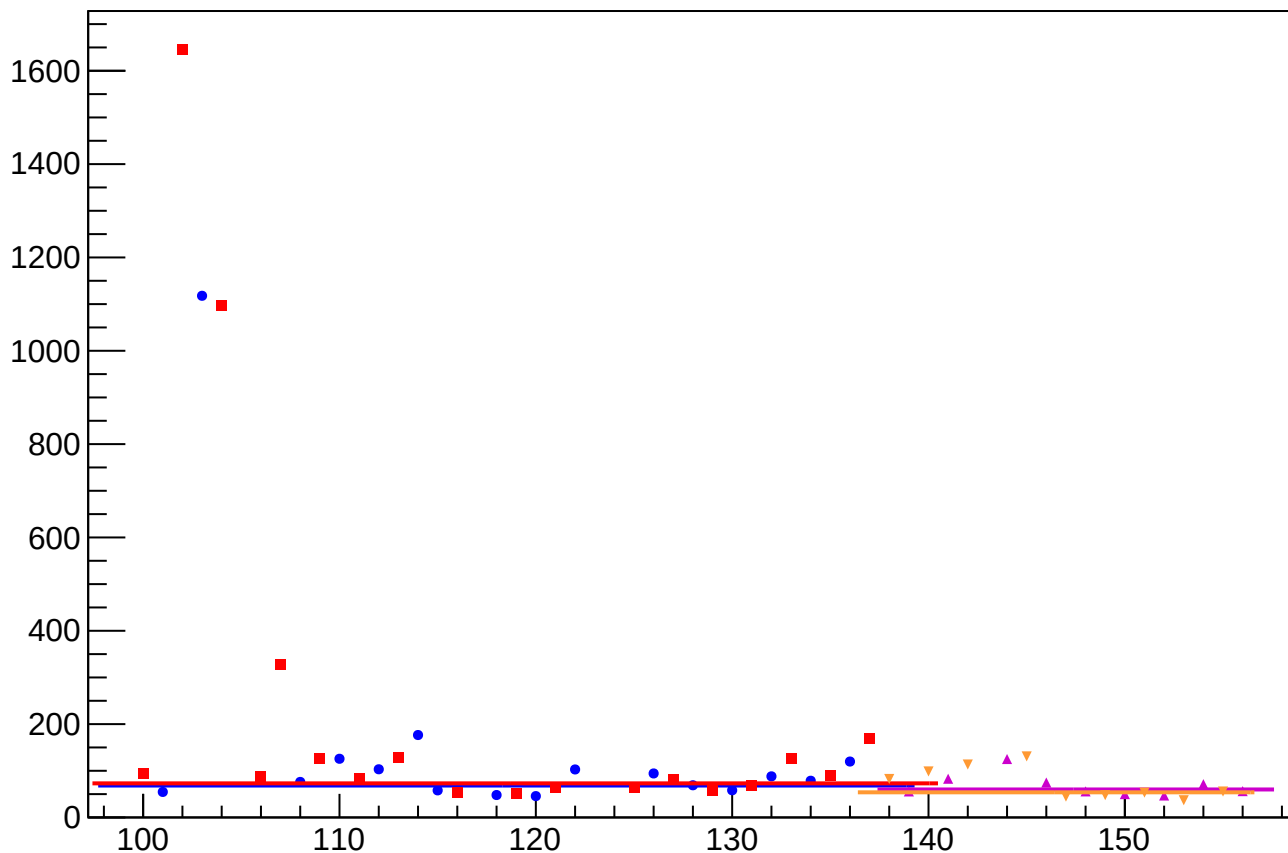
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.005 ± 0.019 $\chi^2/\text{NDF}: 25.7/24$

Out: 0.003 ± 0.019 $\chi^2/\text{NDF}: 28.0/26$

All: 0.004 ± 0.013 $\chi^2/\text{NDF}: 53.7/51$

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428+/-0.021 χ^2/NDF : 2278168.9/15

Left Out: 53.864+/-0.017 χ^2/NDF : 1517666.3/8

Right Out: 73.072+/-0.024 χ^2/NDF : 2913161.9/17

Left In: 59.968+/-0.017 χ^2/NDF : 871212.1/8

Left: 56.915+/-0.012 χ^2/NDF : 2454835.1/17

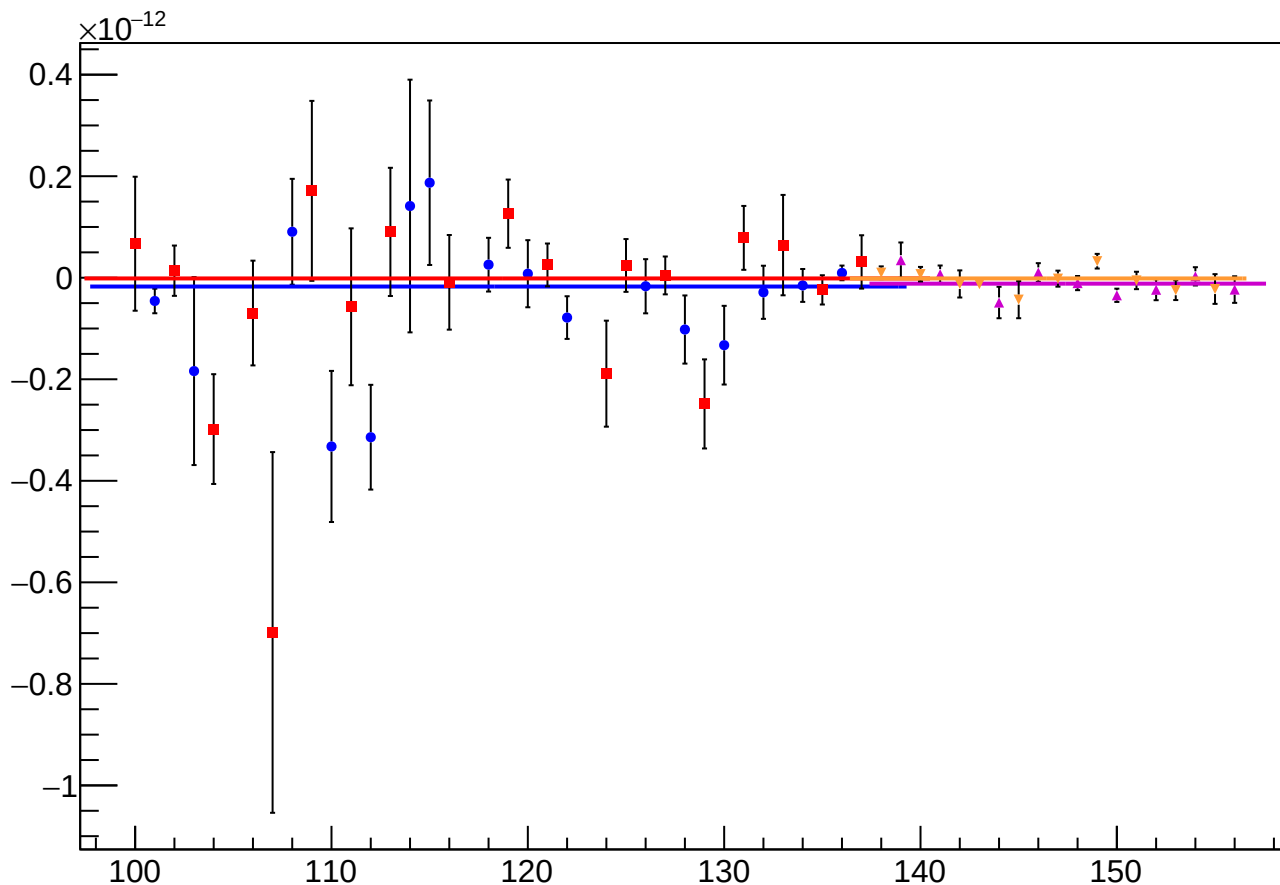
Right: 70.508+/-0.016 χ^2/NDF : 5212574.0/33

In: 63.211+/-0.013 χ^2/NDF : 3246494.4/24

Out: 60.299+/-0.014 χ^2/NDF : 4868619.1/26

All: 61.809+/-0.010 χ^2/NDF : 8138544.2/51

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 : 11.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 32.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 10.1/8

Left: -0.000+/-0.000 χ^2/NDF : 23.3/18

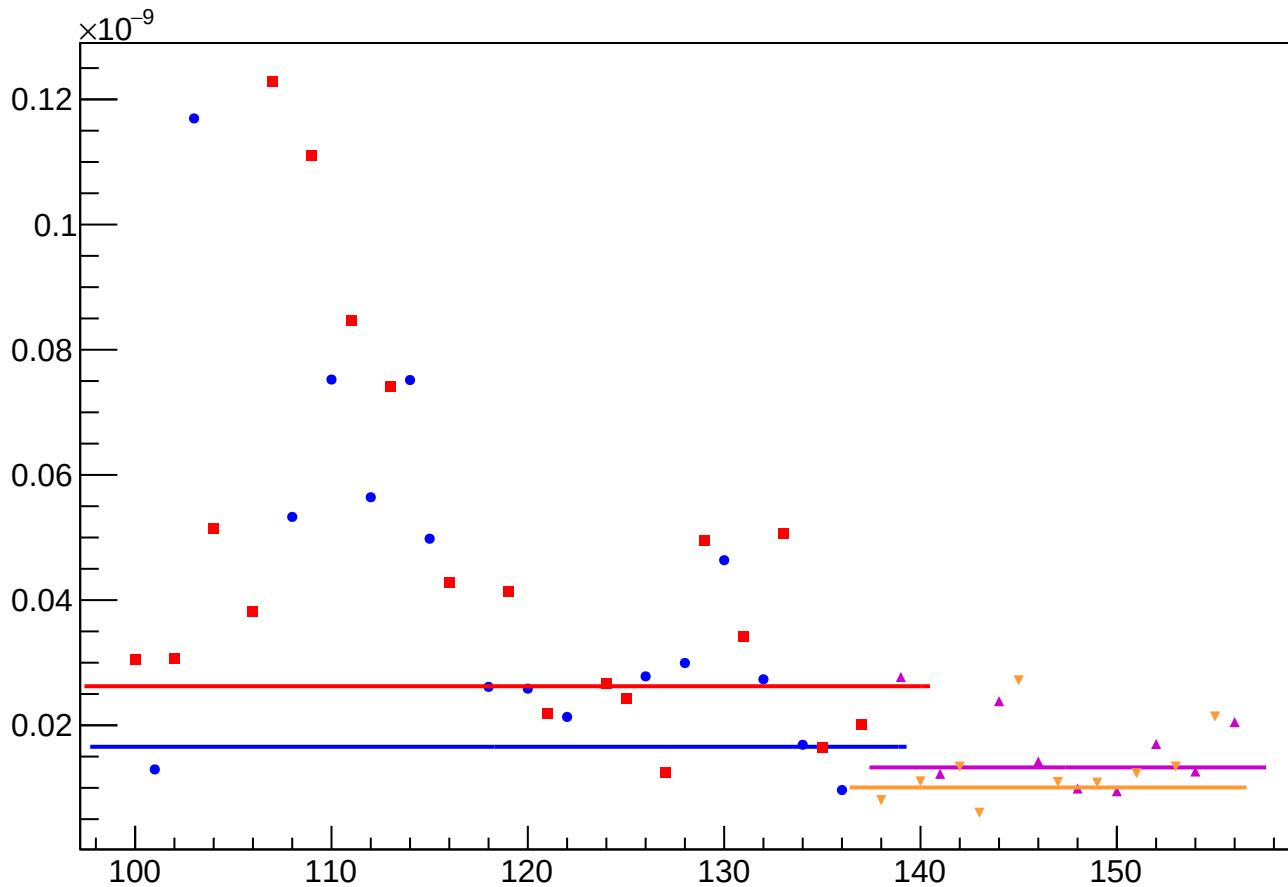
Right: -0.000+/-0.000 χ^2/NDF : 61.4/34

In: -0.000+/-0.000 χ^2/NDF : 38.6/24

Out: -0.000+/-0.000 χ^2/NDF : 43.8/28

All: -0.000+/-0.000 χ^2/NDF : 85.2/53

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 :1311200.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2346394.7/18

Left In: 0.000+/-0.000 χ^2/NDF :1097426.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2736509.7/18

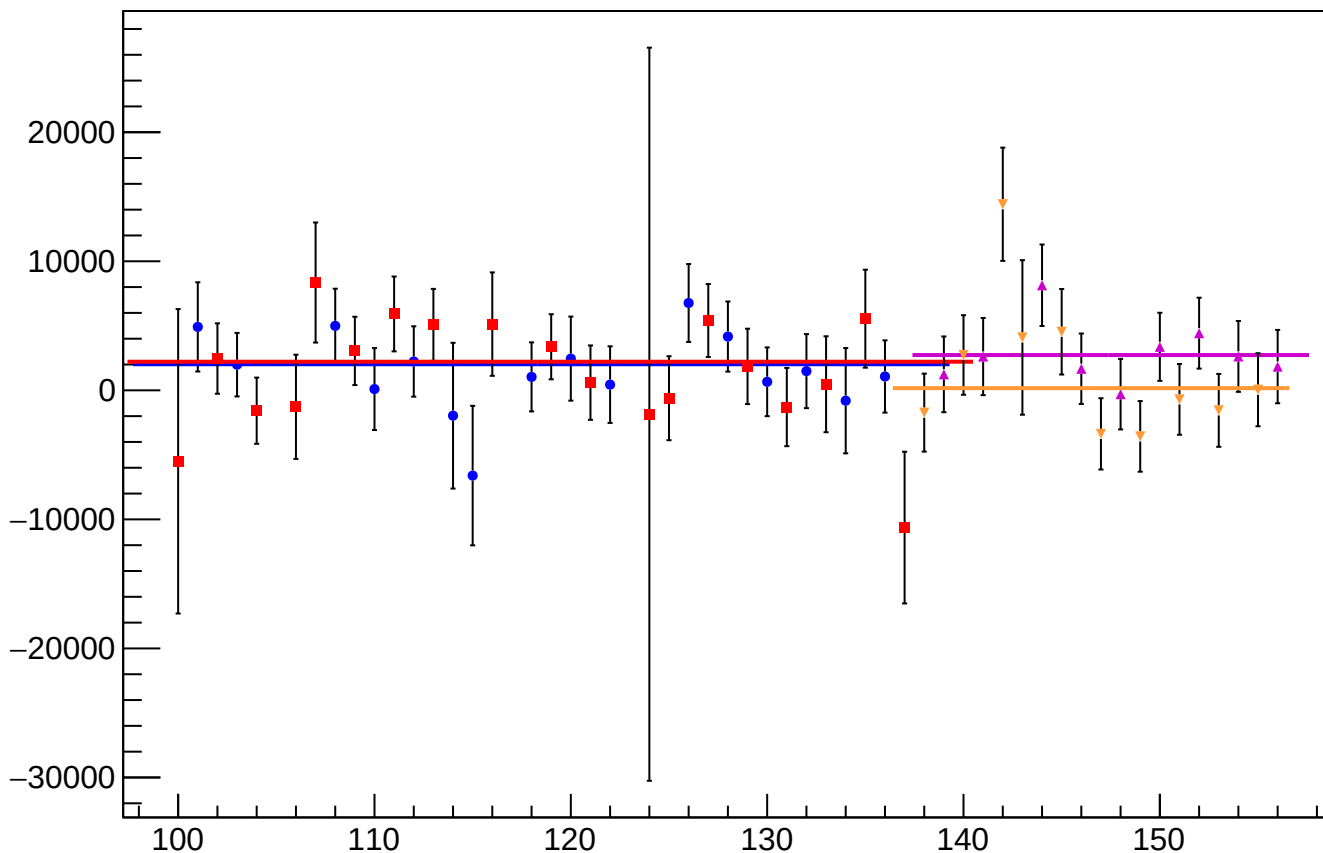
Right: 0.000+/-0.000 χ^2/NDF : 5786992.3/34

In: 0.000+/-0.000 χ^2/NDF :4078293.0/24

Out: 0.000+/-0.000 χ^2/NDF :5954700.1/28

All: 0.000+/-0.000 χ^2/NDF : 10262619.1/53

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.690+/-764.357 χ^2/NDF : 9.6/15

Left Out: 168.878+/-983.661 χ^2/NDF : 17.8/9

Right Out: 2217.261+/-756.139 χ^2/NDF : 18.1/18

Left In: 2732.828+/-941.143 χ^2/NDF : 5.1/8

Left: 1507.461+/-680.023 χ^2/NDF : 26.5/18

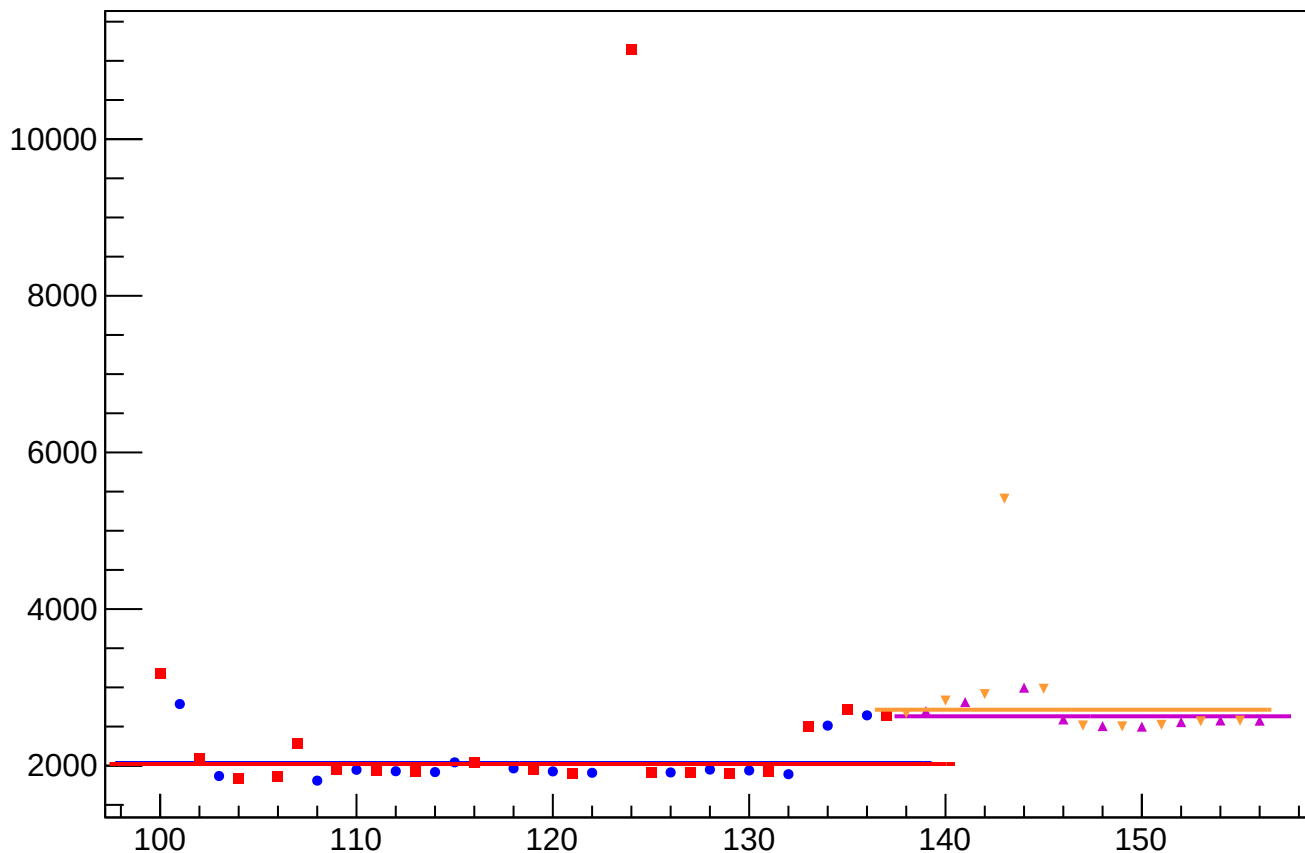
Right: 2121.027+/-537.553 χ^2/NDF : 27.8/34

In: 2304.931+/-593.327 χ^2/NDF : 15.1/24

Out: 1456.442+/-599.488 χ^2/NDF : 38.7/28

All: 1885.069+/-421.707 χ^2/NDF : 54.7/53

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.7/15

Left Out: 2715.211+/-0.696 χ^2/NDF : 468670.6/9

Right Out: 2021.545+/-0.535 χ^2/NDF : 390321.3/18

Left In: 2631.038+/-0.665 χ^2/NDF : 47751.2/8

Left: 2671.266+/-0.481 χ^2/NDF : 524067.6/18

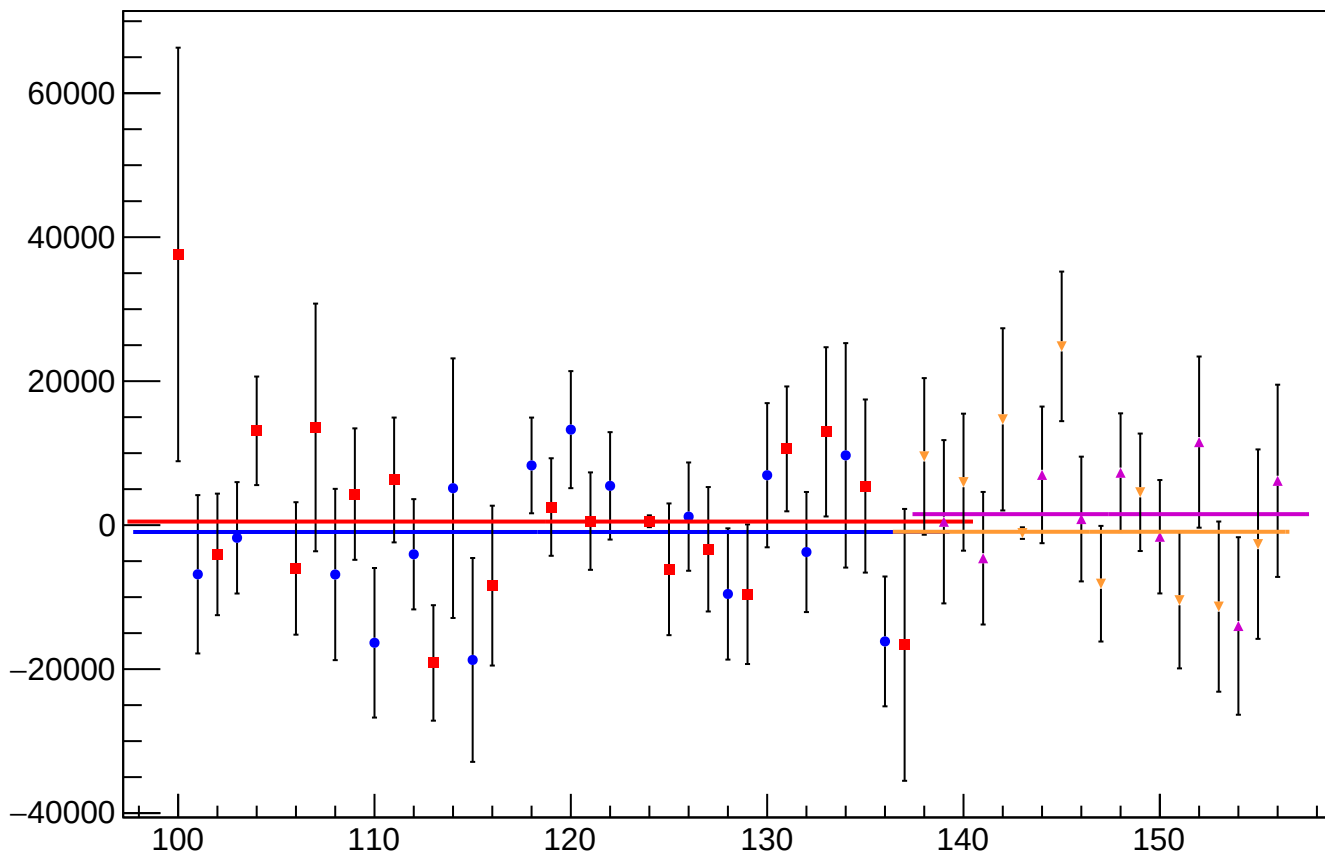
Right: 2027.784+/-0.380 χ^2/NDF : 653557.3/34

In: 2271.385+/-0.420 χ^2/NDF : 795427.7/24

Out: 2279.189+/-0.424 χ^2/NDF : 1484160.6/28

All: 2275.247+/-0.298 χ^2/NDF : 2279759.5/53

asym_atl2_reg_correction_mean vs Slug, Sign Corrected



Right In: -950.519 $\pm$ 2278.532 χ^2 /NDF: 15.3/15

Left Out: -920.343 $\pm$ 784.571 χ^2 /NDF:12.2/9

Right Out: 497.346 $\pm$ 768.286 χ^2 /NDF: 18.5/18

Left In: 1527.233 $\pm$ 3260.041 χ^2 /NDF:3.9/8

Left: -786.344 $\pm$ 762.792 χ^2 /NDF: 16.6/18

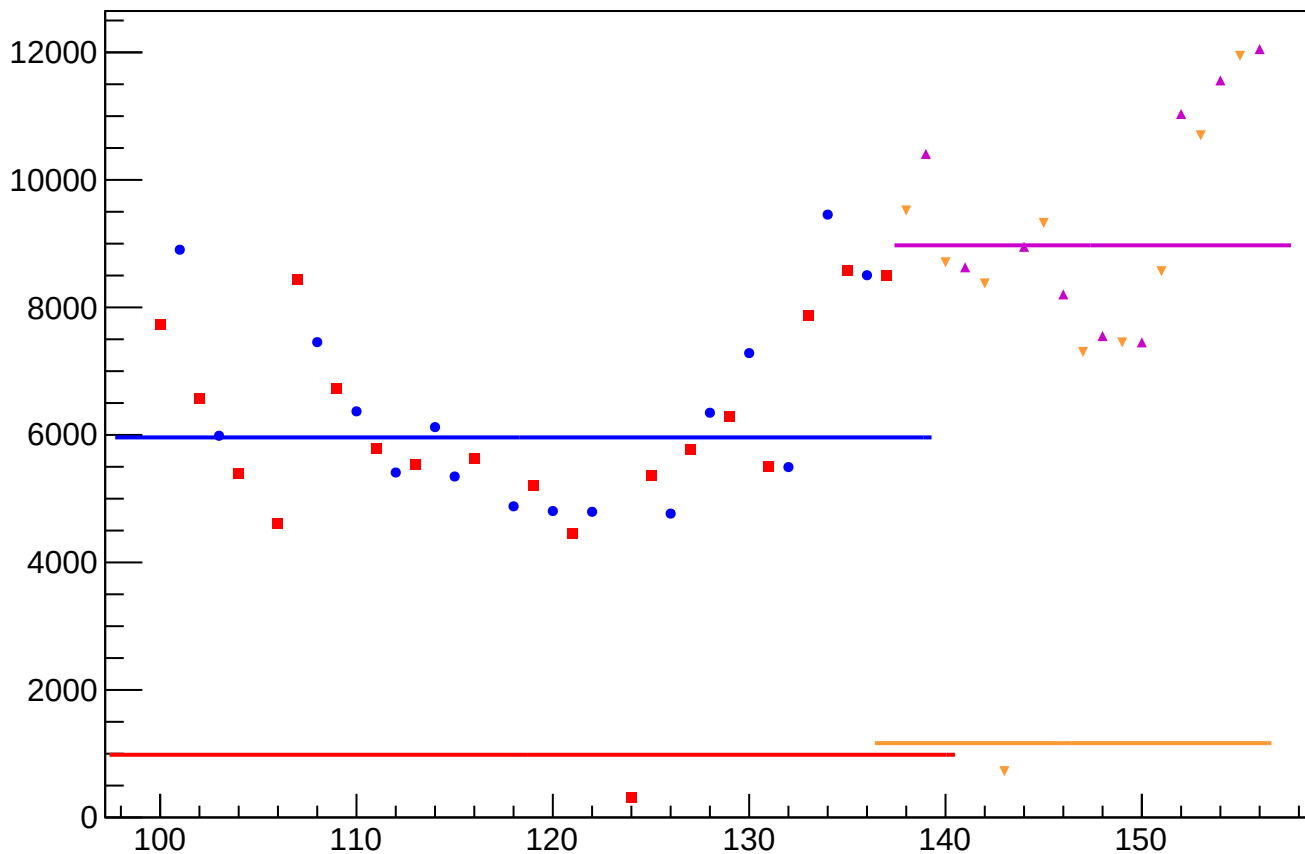
Right: 349.538 $\pm$ 728.015 χ^2 /NDF: 34.2/34

In: -137.364 $\pm$ 1867.587 χ^2 /NDF:19.6/24

Out: -196.633 $\pm$ 548.927 χ^2 /NDF:32.4/28

All: -191.920 $\pm$ 526.650 χ^2 /NDF: 51.9/53

asym_atl2_reg_correction_rms vs Slug, Sign Corrected



Right In: 5960.802 $\pm$ 1.611 χ^2 /NDF: 689267.6/15

Left Out: 1166.082 $\pm$ 0.555 χ^2 /NDF: 11134578.9/9

Right Out: 983.316 $\pm$ 0.543 χ^2 /NDF: 11416689.8/18

Left In: 8973.730 $\pm$ 2.305 χ^2 /NDF: 439146.3/8

Left: 1593.533 $\pm$ 0.539 χ^2 /NDF: 22417288.0/18

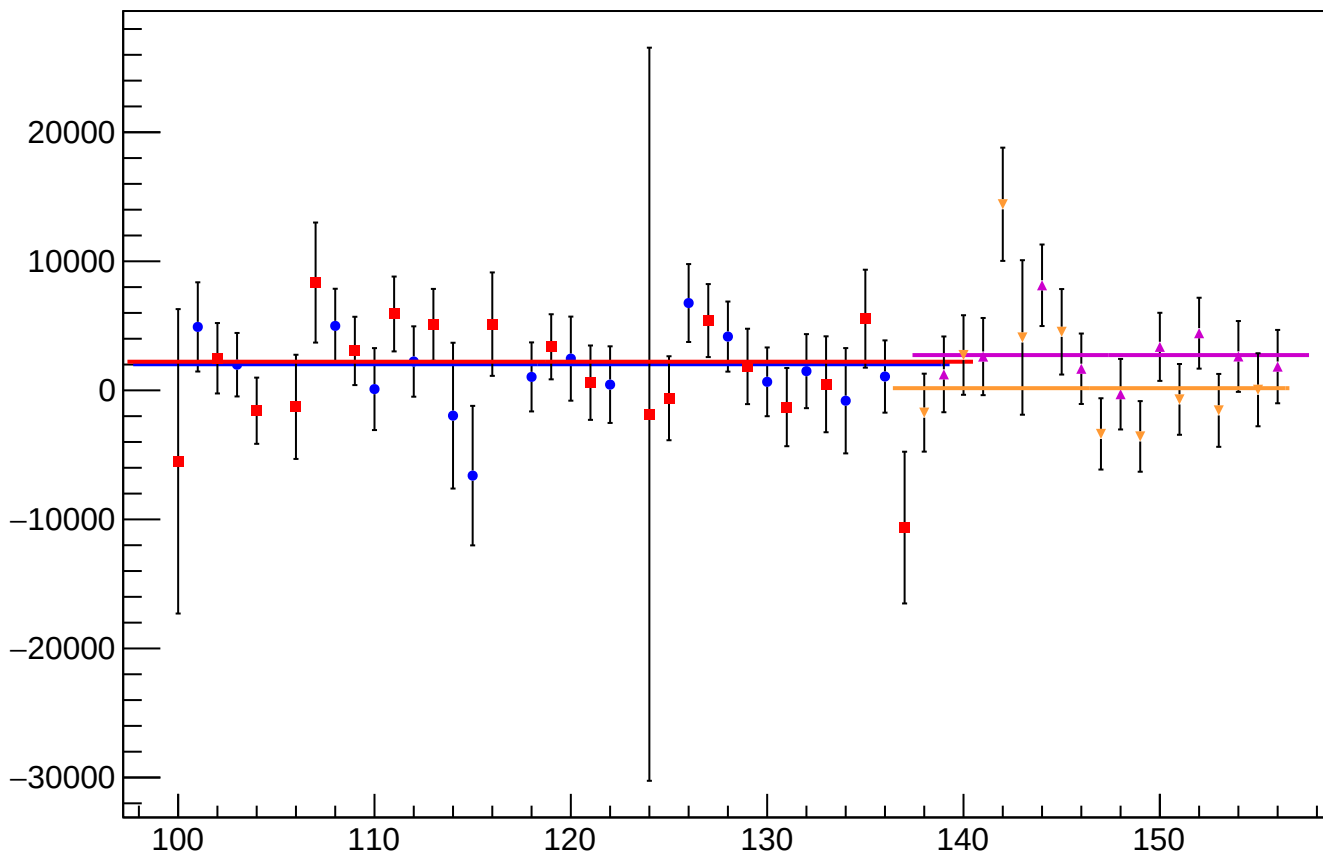
Right: 1491.453 $\pm$ 0.515 χ^2 /NDF: 20675824.3/34

In: 6949.592 $\pm$ 1.321 χ^2 /NDF: 2276072.9/24

Out: 1072.783 $\pm$ 0.388 χ^2 /NDF: 22606672.6/28

All: 1540.113 $\pm$ 0.372 χ^2 /NDF: 43111856.4/5

cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816+/-764.357 χ^2/NDF : 9.6/15

Left Out: 168.964+/-983.661 χ^2/NDF : 17.8/9

Right Out: 2219.099+/-756.147 χ^2/NDF : 18.1/18

Left In: 2733.016+/-941.143 χ^2/NDF : 5.1/8

Left: 1507.601+/-680.023 χ^2/NDF : 26.5/18

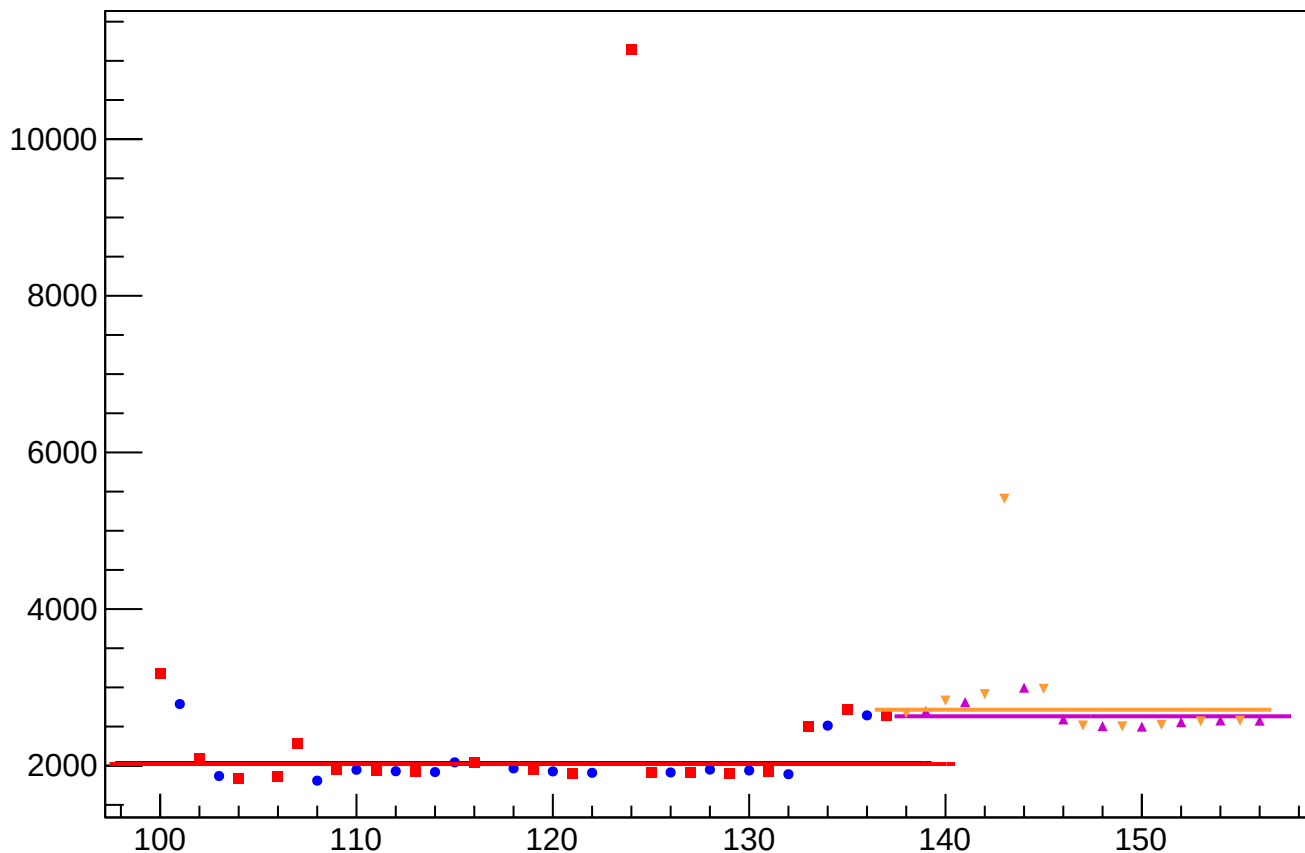
Right: 2122.018+/-537.556 χ^2/NDF : 27.8/34

In: 2305.082+/-593.327 χ^2/NDF : 15.1/24

Out: 1457.620+/-599.492 χ^2/NDF : 38.7/28

All: 1885.730+/-421.708 χ^2/NDF : 54.7/53

cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2715.211+/-0.696 χ^2/NDF : 468670.6/9

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2631.038+/-0.665 χ^2/NDF : 47751.2/8

Left: 2671.266+/-0.481 χ^2/NDF : 524067.6/18

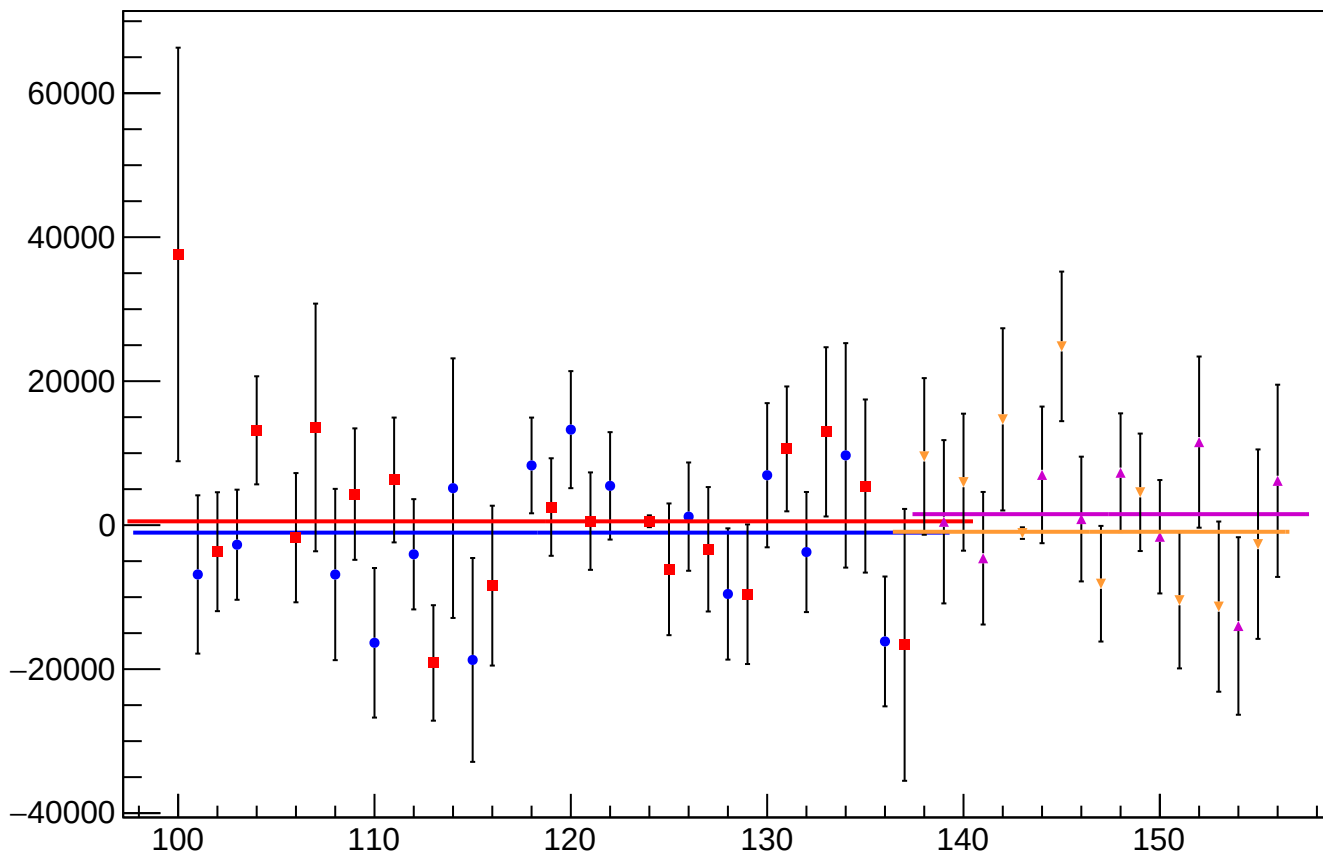
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2271.385+/-0.420 χ^2/NDF : 795427.8/24

Out: 2279.206+/-0.424 χ^2/NDF : 1484128.9/28

All: 2275.255+/-0.298 χ^2/NDF : 2279728.6/53

asym_atl2_cor_correction_mean vs Slug, Sign Corrected



Right In: -1037.942 ± 2276.180 $\chi^2/\text{NDF}: 15.4/15$

Left Out: -920.127 ± 784.499 $\chi^2/\text{NDF}: 12.2/9$

Right Out: 530.662 ± 767.947 $\chi^2/\text{NDF}: 18.0/18$

Left In: 1527.423 ± 3260.038 $\chi^2/\text{NDF}: 3.9/8$

Left: -786.152 ± 762.726 $\chi^2/\text{NDF}: 16.6/18$

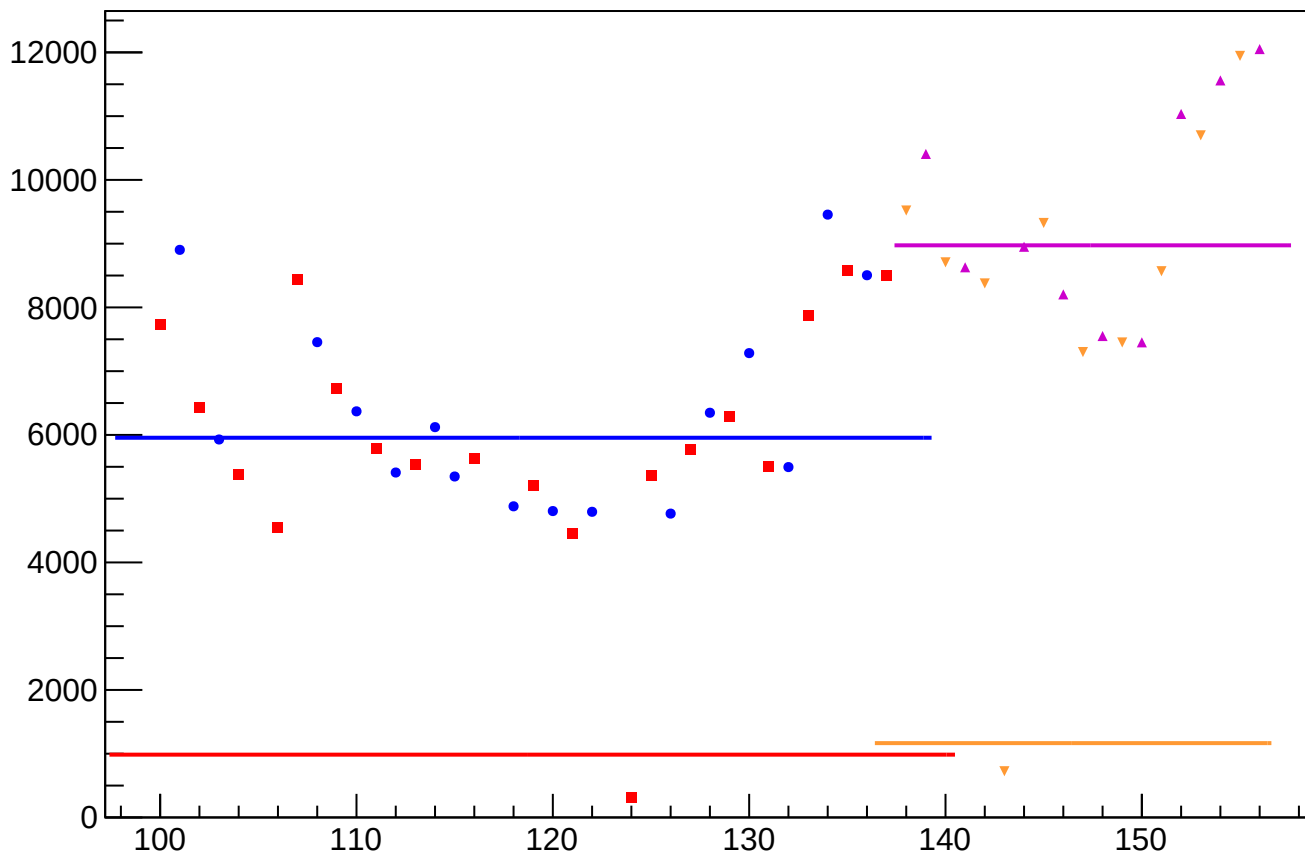
Right: 370.358 ± 727.649 $\chi^2/\text{NDF}: 33.8/34$

In: -197.201 ± 1866.291 $\chi^2/\text{NDF}: 19.6/24$

Out: -179.266 ± 548.779 $\chi^2/\text{NDF}: 32.0/28$

All: -180.694 ± 526.490 $\chi^2/\text{NDF}: 51.7/53$

asym_atl2_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638+/-1.610

χ^2/NDF : 689141.5/15

Left: 1593.322+/-0.539

χ^2/NDF : 22418097.8/18

Left Out: 1165.937+/-0.555

χ^2/NDF : 11134879.5/9

Right: 1493.016+/-0.515

χ^2/NDF : 20664769.2/34

Right Out: 985.045+/-0.543

χ^2/NDF : 11412843.1/18

In: 6944.748+/-1.320

χ^2/NDF : 2280660.7/24

Out: 1073.562+/-0.388

χ^2/NDF : 22602024.9/28

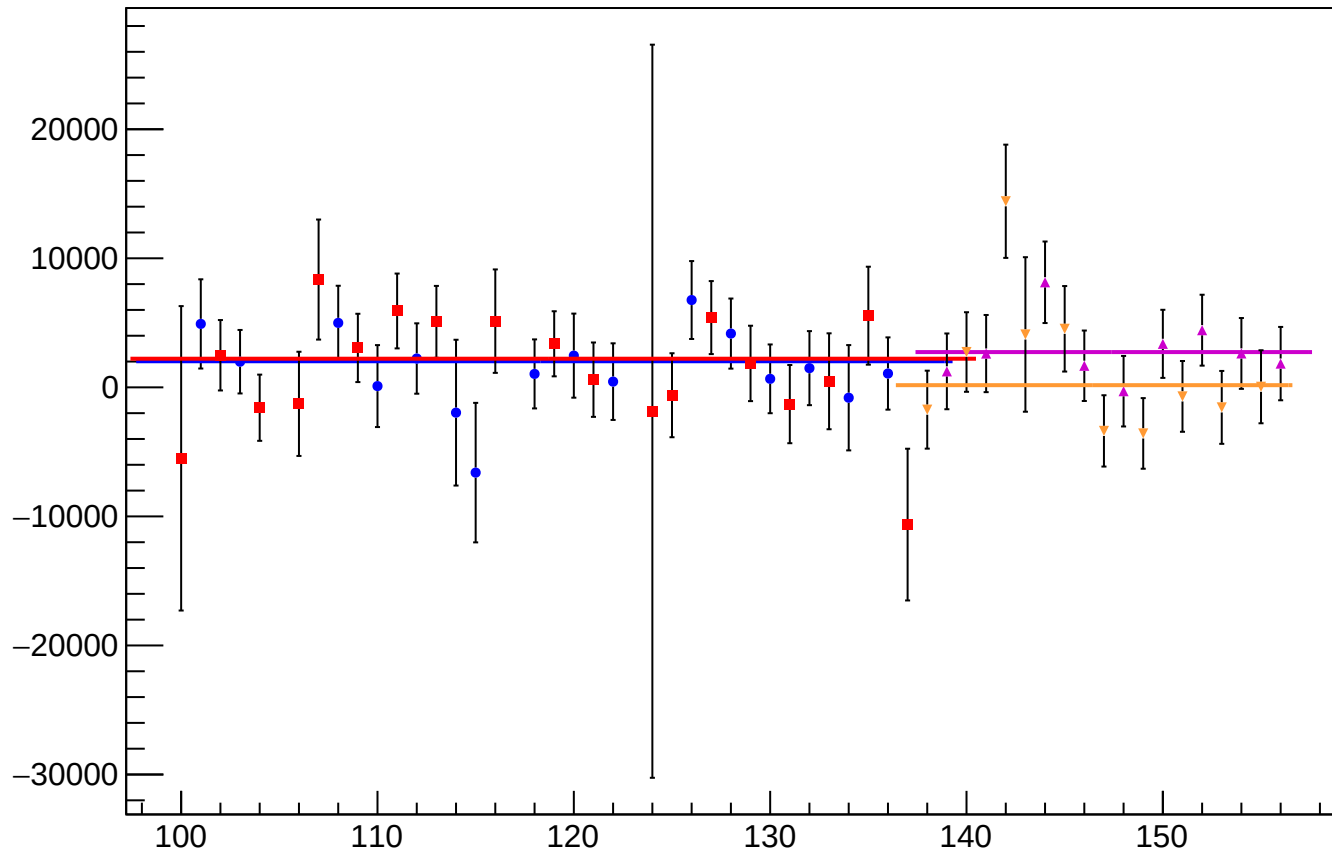
Left In: 8973.720+/-2.305

χ^2/NDF : 439149.3/8

All: 1540.810+/-0.372

χ^2/NDF : 43100975.5/5

eigen_cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816+/-764.357 χ^2/NDF : 9.6/15

Left Out: 168.964+/-983.661 χ^2/NDF : 17.8/9

Right Out: 2219.099+/-756.147 χ^2/NDF : 18.1/18

Left In: 2733.016+/-941.143 χ^2/NDF : 5.1/8

Left: 1507.601+/-680.023 χ^2/NDF : 26.5/18

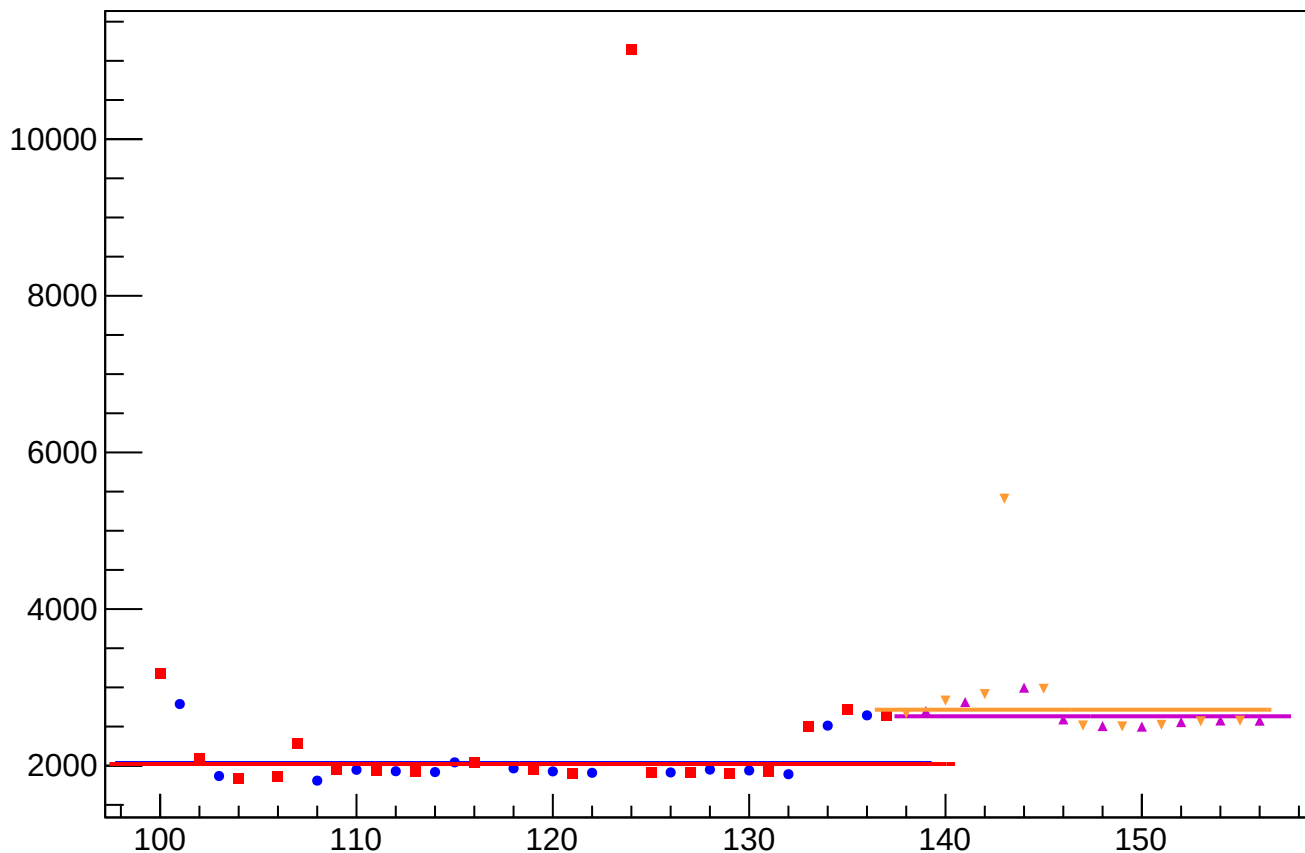
Right: 2122.018+/-537.556 χ^2/NDF : 27.8/34

In: 2305.082+/-593.327 χ^2/NDF : 15.1/24

Out: 1457.620+/-599.492 χ^2/NDF : 38.7/28

All: 1885.730+/-421.708 χ^2/NDF : 54.7/53

eigen_cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2715.211+/-0.696 χ^2/NDF : 468670.6/9

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2631.038+/-0.665 χ^2/NDF : 47751.2/8

Left: 2671.266+/-0.481 χ^2/NDF : 524067.6/18

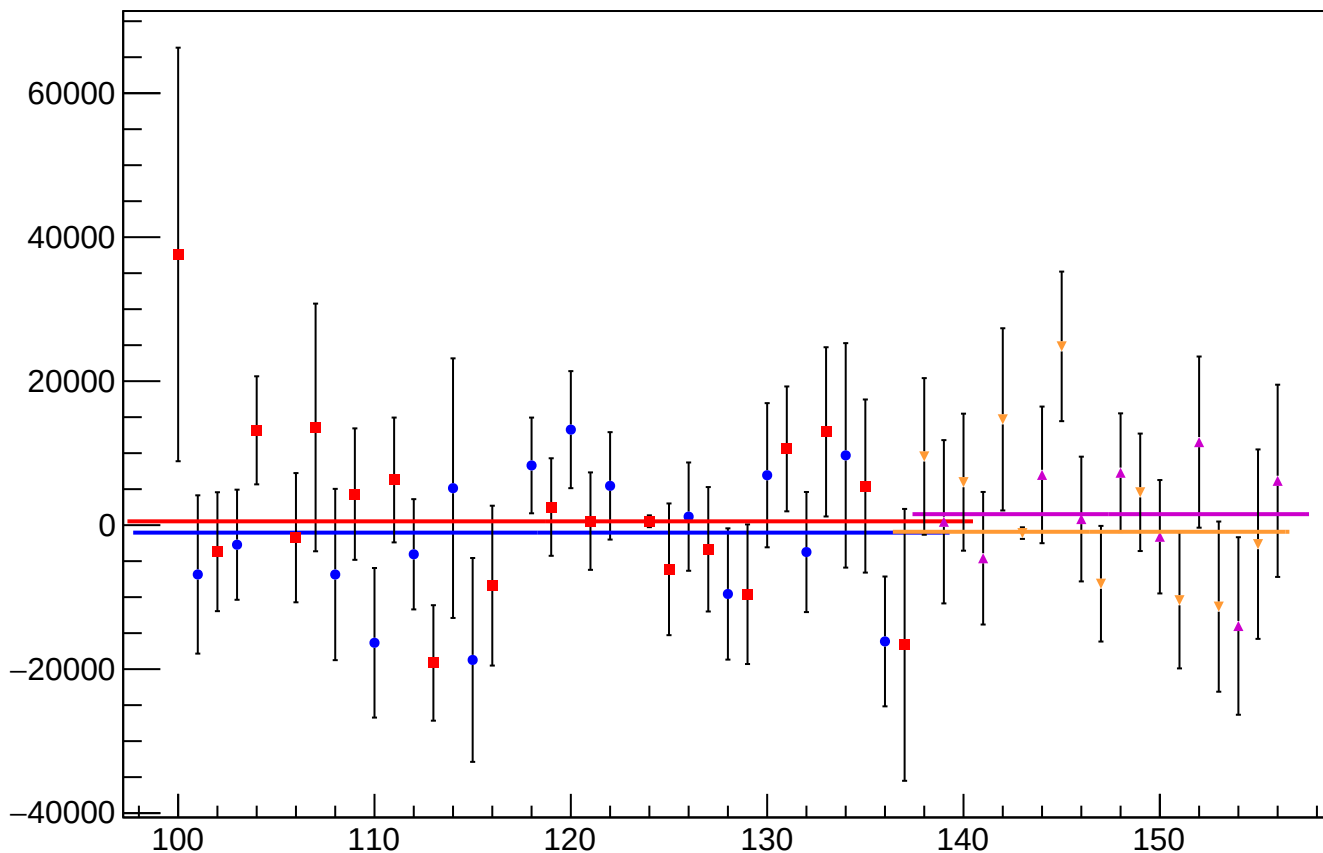
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2271.385+/-0.420 χ^2/NDF : 795427.8/24

Out: 2279.206+/-0.424 χ^2/NDF : 1484128.9/28

All: 2275.255+/-0.298 χ^2/NDF : 2279728.6/53

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: -920.127 ± 784.499 $\chi^2/\text{NDF}: 12.2/9$

Right Out: 530.662 ± 767.947 $\chi^2/\text{NDF}: 18.0/18$

Left In: 1527.423 ± 3260.038 $\chi^2/\text{NDF}: 3.9/8$

Left: -786.152 ± 762.726 $\chi^2/\text{NDF}: 16.6/18$

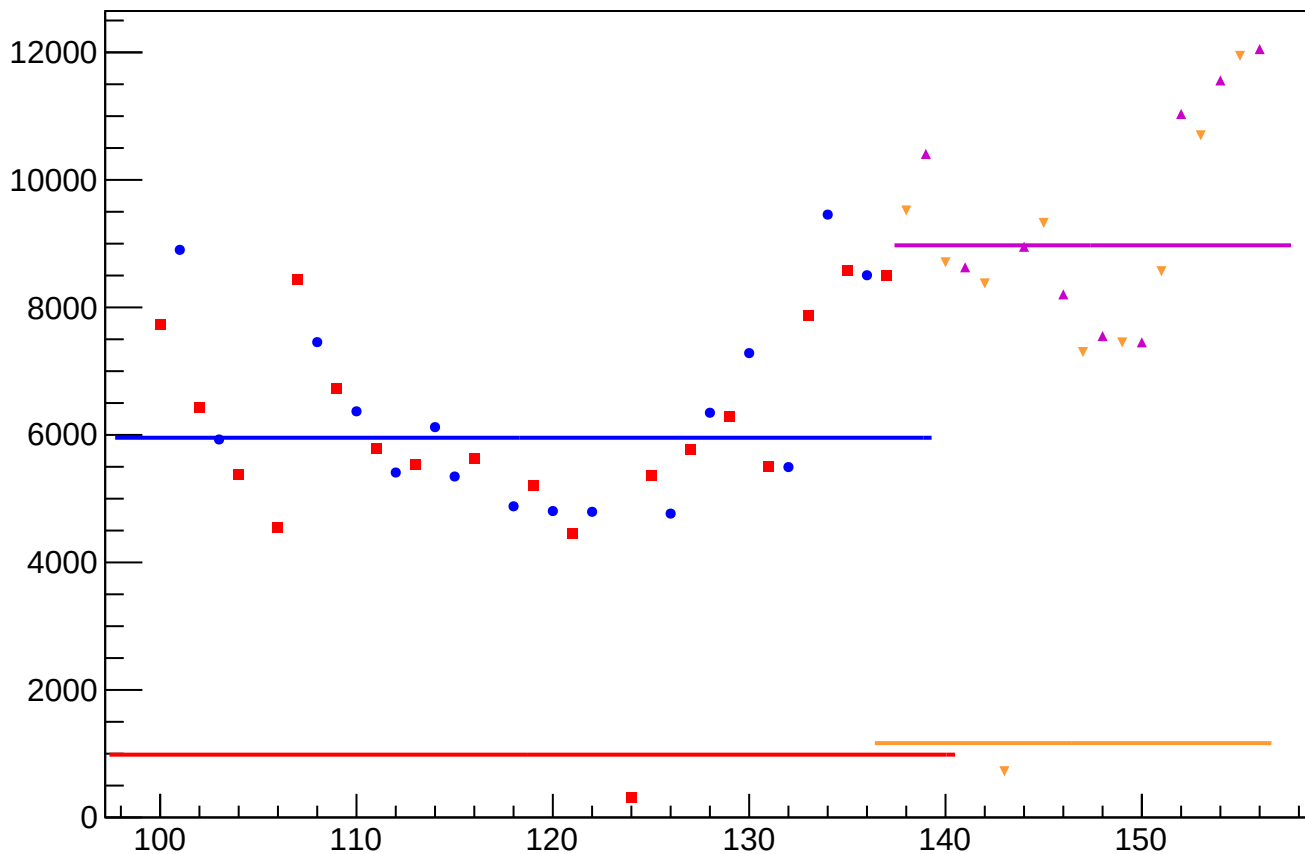
Right: 370.358 ± 727.649 $\chi^2/\text{NDF}: 33.8/34$

In: -197.201 ± 1866.291 $\chi^2/\text{NDF}: 19.6/24$

Out: -179.266 ± 548.779 $\chi^2/\text{NDF}: 32.0/28$

All: -180.694 ± 526.490 $\chi^2/\text{NDF}: 51.7/53$

asym_atl2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638 $\pm$ 1.610

χ^2 /NDF: 689141.5/15

Left: 1593.322 $\pm$ 0.539

χ^2 /NDF: 22418097.8/18

Left Out: 1165.937 $\pm$ 0.555

χ^2 /NDF: 11134879.5/9

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: 6944.748 $\pm$ 1.320

χ^2 /NDF: 2280660.7/24

Out: 1073.562 $\pm$ 0.388

χ^2 /NDF: 22602024.9/28

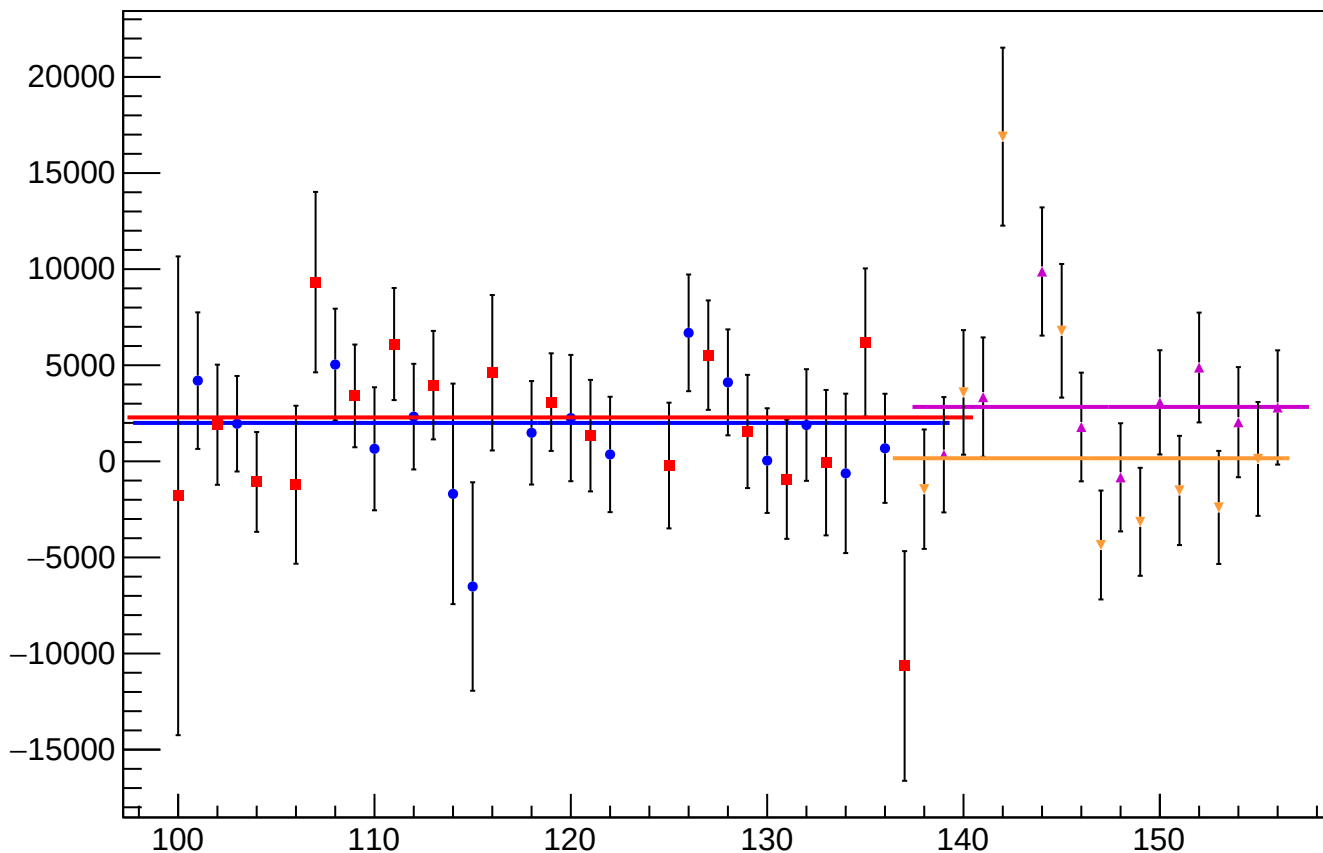
Left In: 8973.720 $\pm$ 2.305

χ^2 /NDF: 439149.3/8

All: 1540.810 $\pm$ 0.372

χ^2 /NDF: 43100975.5/5

dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.214+/-773.538 χ^2/NDF : 9.0/15

Left Out: 160.809+/-1035.467 χ^2/NDF : 23.1/8

Right Out: 2285.899+/-771.299 χ^2/NDF : 16.7/17

Left In: 2831.056+/-976.228 χ^2/NDF : 7.6/8

Left: 1574.495+/-710.317 χ^2/NDF : 34.2/17

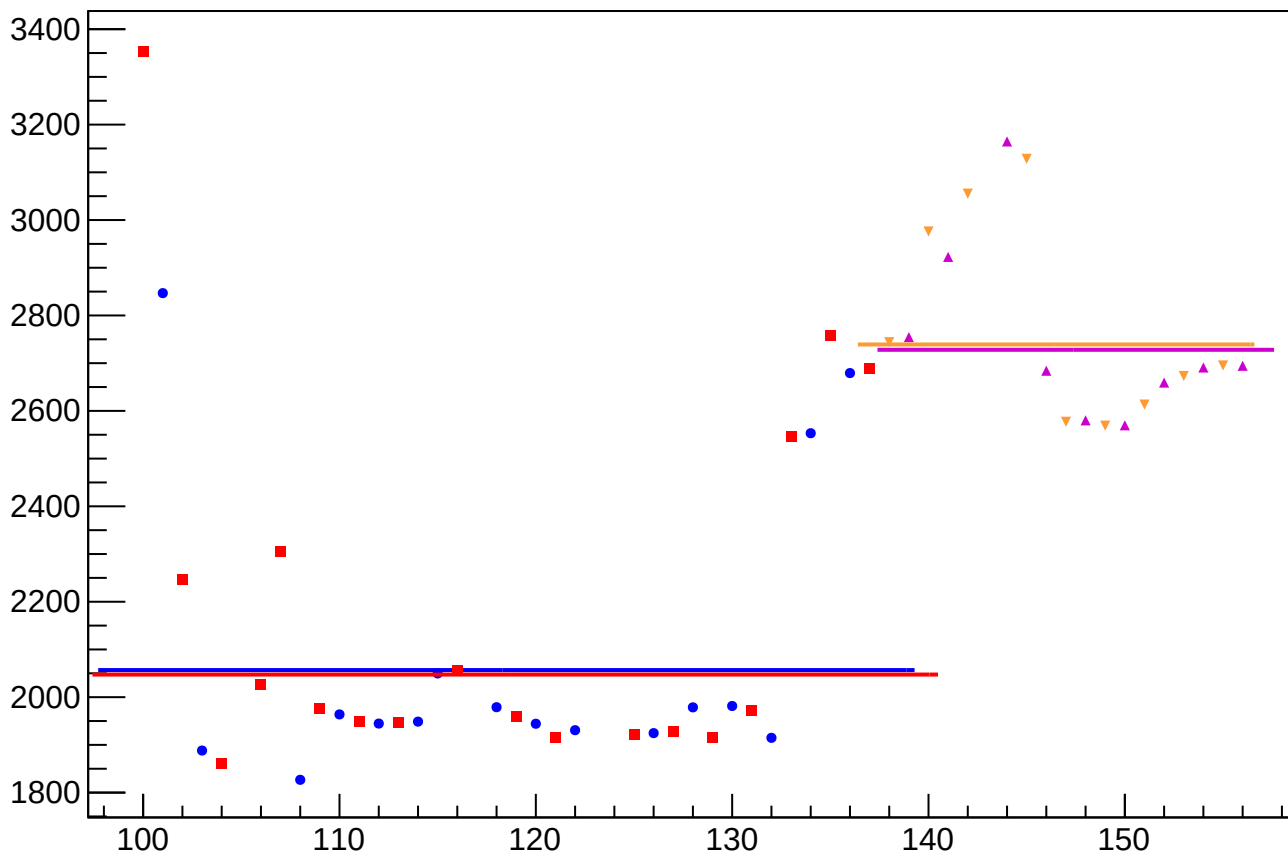
Right: 2142.972+/-546.180 χ^2/NDF : 25.7/33

In: 2320.051+/-606.280 χ^2/NDF : 17.0/24

Out: 1527.561+/-618.556 χ^2/NDF : 42.5/26

All: 1931.748+/-432.980 χ^2/NDF : 60.4/51

dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2 /NDF: 270454.5/15

Left Out: 2739.201 $\pm$ 0.732 χ^2 /NDF: 64290.7/8

Right Out: 2047.400 $\pm$ 0.545 χ^2 /NDF: 196523.0/17

Left In: 2728.039 $\pm$ 0.690 χ^2 /NDF: 56837.7/8

Left: 2733.292 $\pm$ 0.502 χ^2 /NDF: 121251.5/17

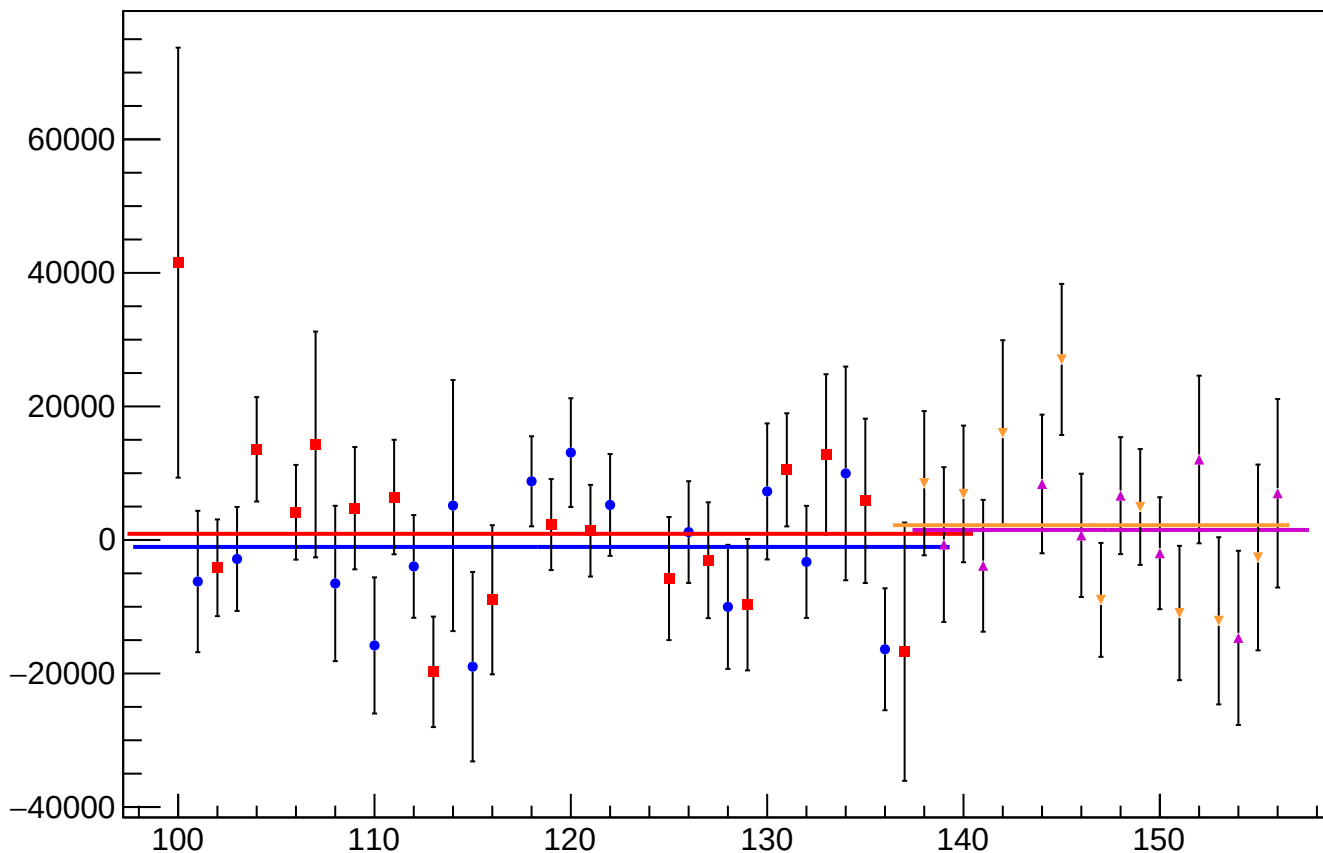
Right: 2052.077 $\pm$ 0.386 χ^2 /NDF: 467125.7/33

In: 2315.691 $\pm$ 0.429 χ^2 /NDF: 908152.3/24

Out: 2293.790 $\pm$ 0.437 χ^2 /NDF: 835591.6/26

All: 2304.949 $\pm$ 0.306 χ^2 /NDF: 1745024.0/51

asym_atl2_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.515 $\pm$ 2294.607 χ^2 /NDF: 15.3/15

Left Out: 2213.931 $\pm$ 3545.216 χ^2 /NDF:11.3/8

Right Out: 919.663 $\pm$ 2150.895 χ^2 /NDF: 18.4/17

Left In: 1500.159 $\pm$ 3466.785 χ^2 /NDF:3.7/8

Left: 1849.062 $\pm$ 2478.651 χ^2 /NDF: 15.0/17

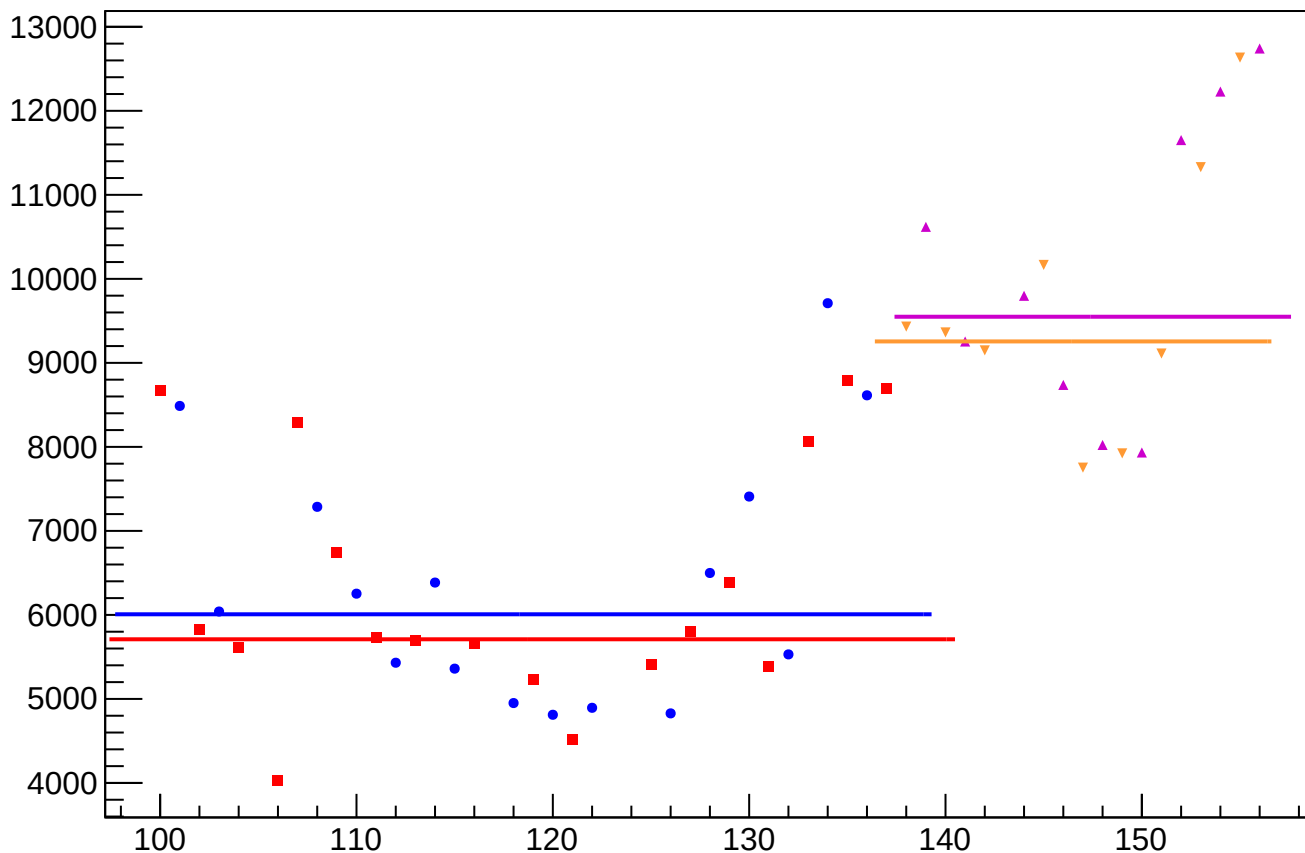
Right: 1.940 $\pm$ 1569.260 χ^2 /NDF: 34.1/33

In: -267.933 $\pm$ 1913.442 χ^2 /NDF:19.4/24

Out: 1267.890 $\pm$ 1838.916 χ^2 /NDF:29.8/26

All: 530.470 $\pm$ 1325.874 χ^2 /NDF: 49.5/51

asym_atl2_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.425+/-1.623 χ^2/NDF : 653996.7/15

Left Out: 9255.270+/-2.507 χ^2/NDF : 296256.6/8

Right Out: 5709.903+/-1.521 χ^2/NDF : 535926.2/17

Left In: 9549.081+/-2.451 χ^2/NDF : 413308.5/8

Left: 9405.461+/-1.753 χ^2/NDF : 716587.0/17

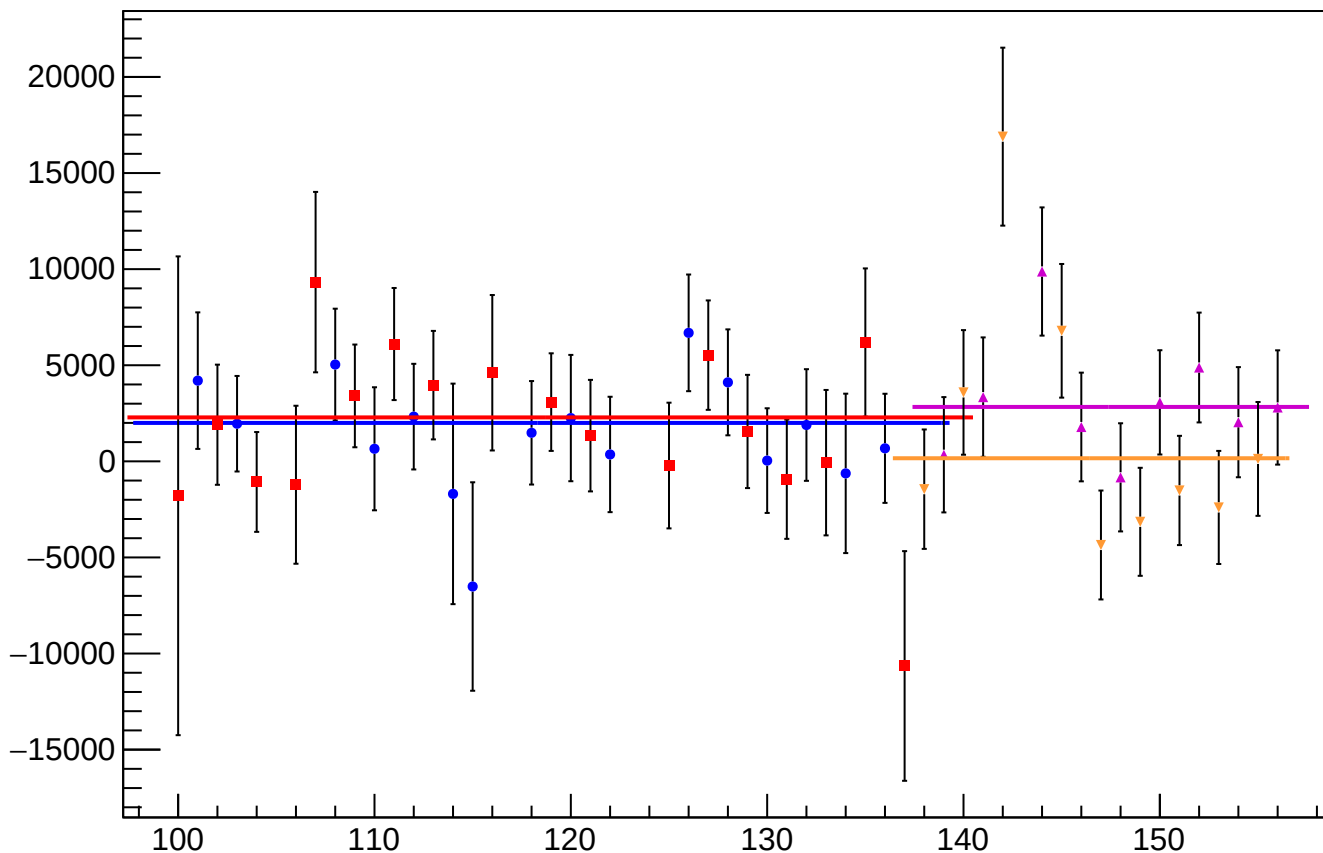
Right: 5849.056+/-1.110 χ^2/NDF : 1207820.8/33

In: 7086.330+/-1.353 χ^2/NDF : 2518758.5/24

Out: 6663.796+/-1.300 χ^2/NDF : 2294201.1/26

All: 6866.674+/-0.938 χ^2/NDF : 4863659.1/51

eigen_dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.218 $\pm$ 773.538 χ^2/NDF : 9.0/15

Left Out: 160.814 $\pm$ 1035.467 χ^2/NDF : 23.1/8

Right Out: 2285.903 $\pm$ 771.299 χ^2/NDF : 16.7/17

Left In: 2831.057 $\pm$ 976.229 χ^2/NDF : 7.6/8

Left: 1574.497 $\pm$ 710.318 χ^2/NDF : 34.2/17

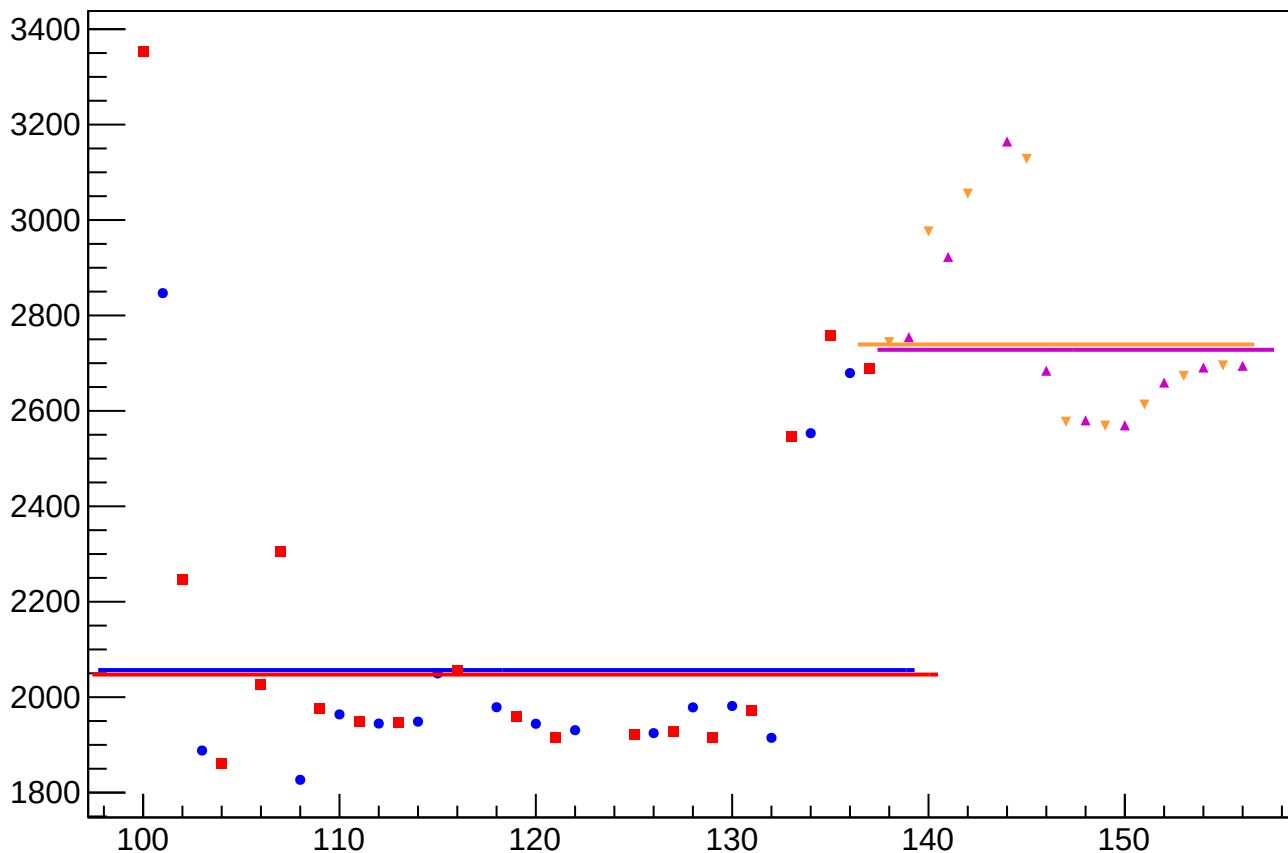
Right: 2142.976 $\pm$ 546.180 χ^2/NDF : 25.7/33

In: 2320.054 $\pm$ 606.281 χ^2/NDF : 17.0/24

Out: 1527.566 $\pm$ 618.556 χ^2/NDF : 42.5/26

All: 1931.752 $\pm$ 432.980 χ^2/NDF : 60.4/51

eigen_dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2 /NDF: 270454.5/15

Left Out: 2739.203 $\pm$ 0.732 χ^2 /NDF: 64291.8/8

Right Out: 2047.400 $\pm$ 0.545 χ^2 /NDF: 196523.3/17

Left In: 2728.042 $\pm$ 0.690 χ^2 /NDF: 56838.3/8

Left: 2733.294 $\pm$ 0.502 χ^2 /NDF: 121253.2/17

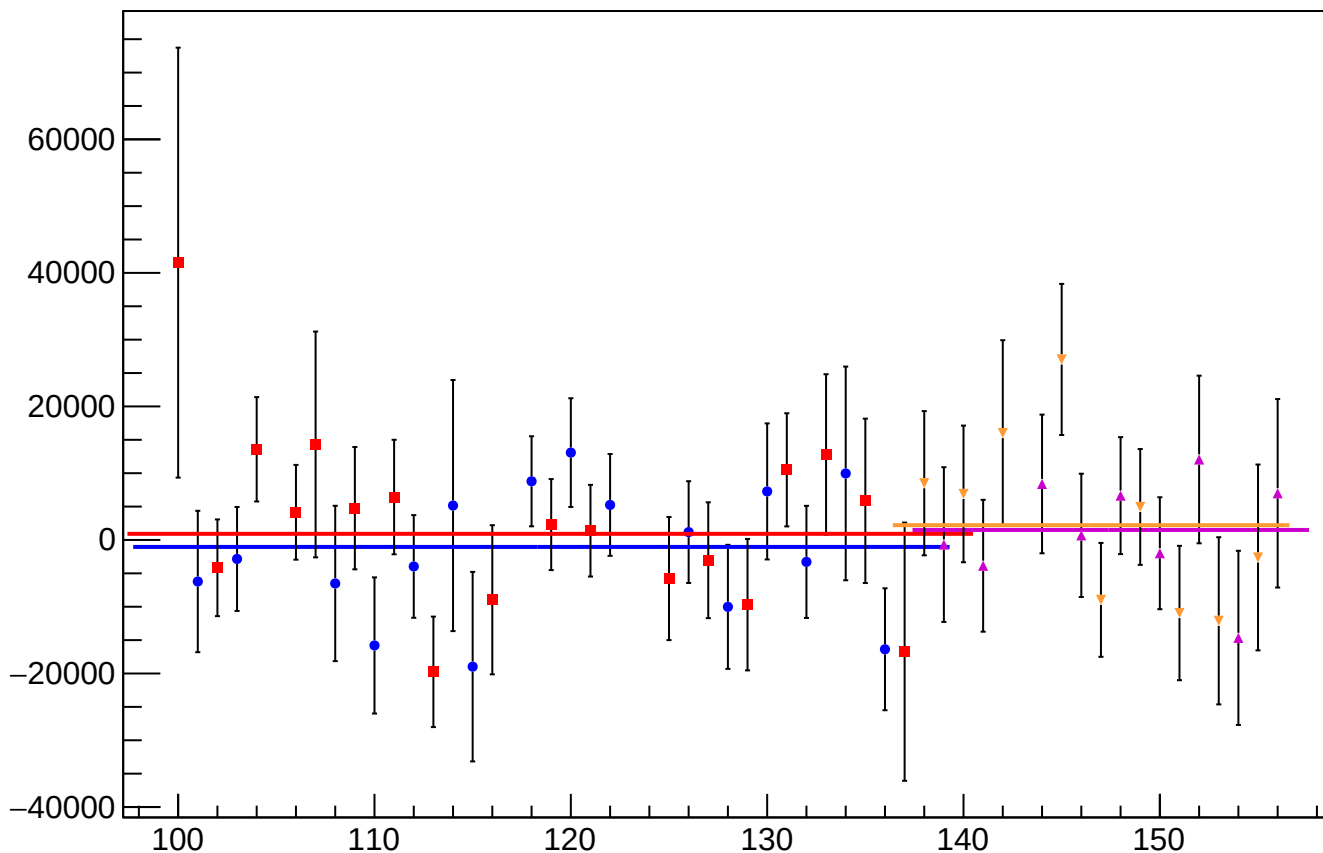
Right: 2052.077 $\pm$ 0.386 χ^2 /NDF: 467125.9/33

In: 2315.692 $\pm$ 0.429 χ^2 /NDF: 908156.7/24

Out: 2293.790 $\pm$ 0.437 χ^2 /NDF: 835596.5/26

All: 2304.950 $\pm$ 0.306 χ^2 /NDF: 1745033.3/51

asym_atl2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.503 $\pm$ 2294.600 χ^2 /NDF: 15.3/15

Left Out: 2213.925 $\pm$ 3545.221 χ^2 /NDF:11.3/8

Right Out: 919.667 $\pm$ 2150.889 χ^2 /NDF: 18.4/17

Left In: 1500.161 $\pm$ 3466.789 χ^2 /NDF:3.7/8

Left: 1849.060 $\pm$ 2478.655 χ^2 /NDF: 15.0/17

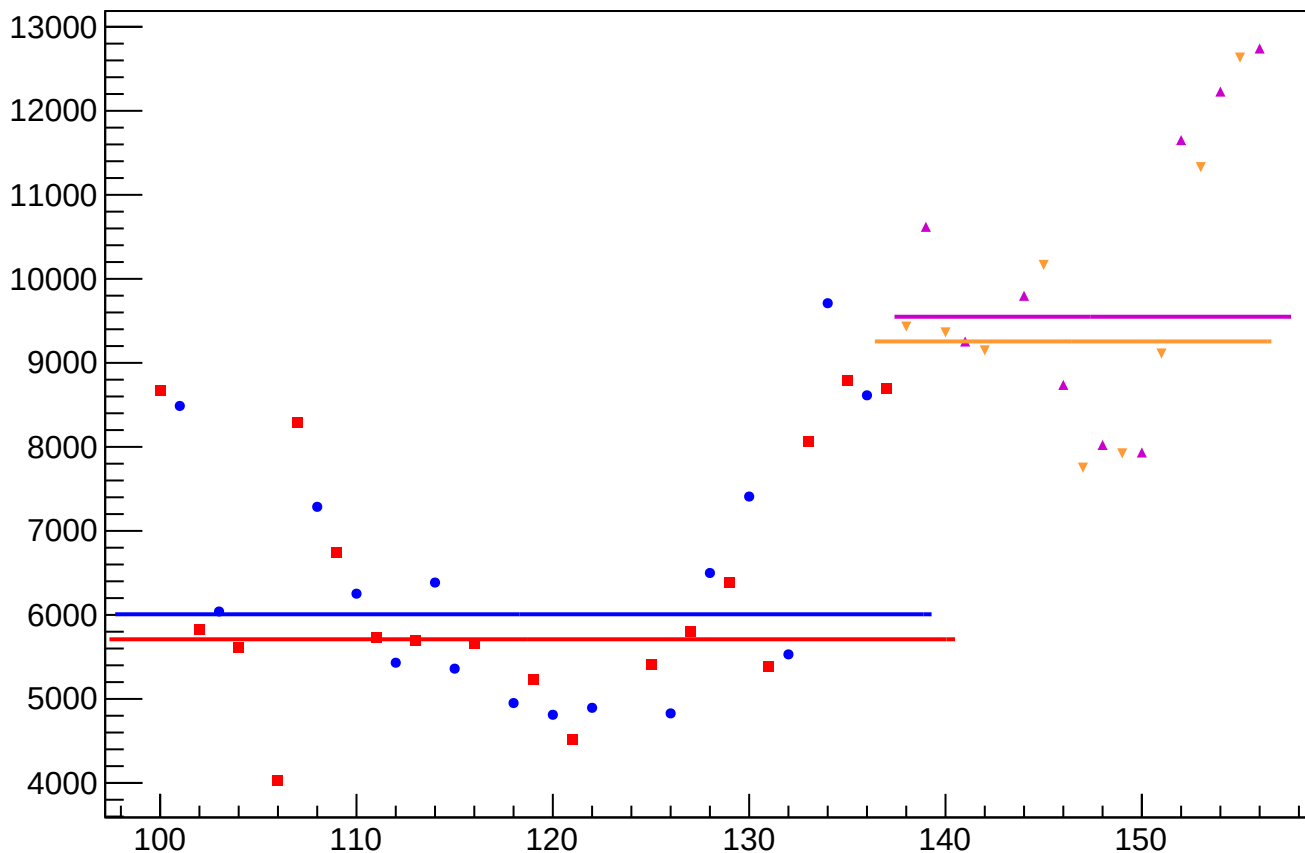
Right: 1.948 $\pm$ 1569.255 χ^2 /NDF: 34.1/33

In: -267.928 $\pm$ 1913.439 χ^2 /NDF:19.4/24

Out: 1267.889 $\pm$ 1838.913 χ^2 /NDF:29.8/26

All: 530.471 $\pm$ 1325.872 χ^2 /NDF: 49.5/51

asym_atl2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.405+/-1.623 χ^2/NDF : 654004.9/15

Left Out: 9255.282+/-2.507 χ^2/NDF : 296259.3/8

Right Out: 5709.885+/-1.521 χ^2/NDF : 535929.9/17

Left In: 9549.091+/-2.451 χ^2/NDF : 413311.6/8

Left: 9405.473+/-1.753 χ^2/NDF : 716592.7/17

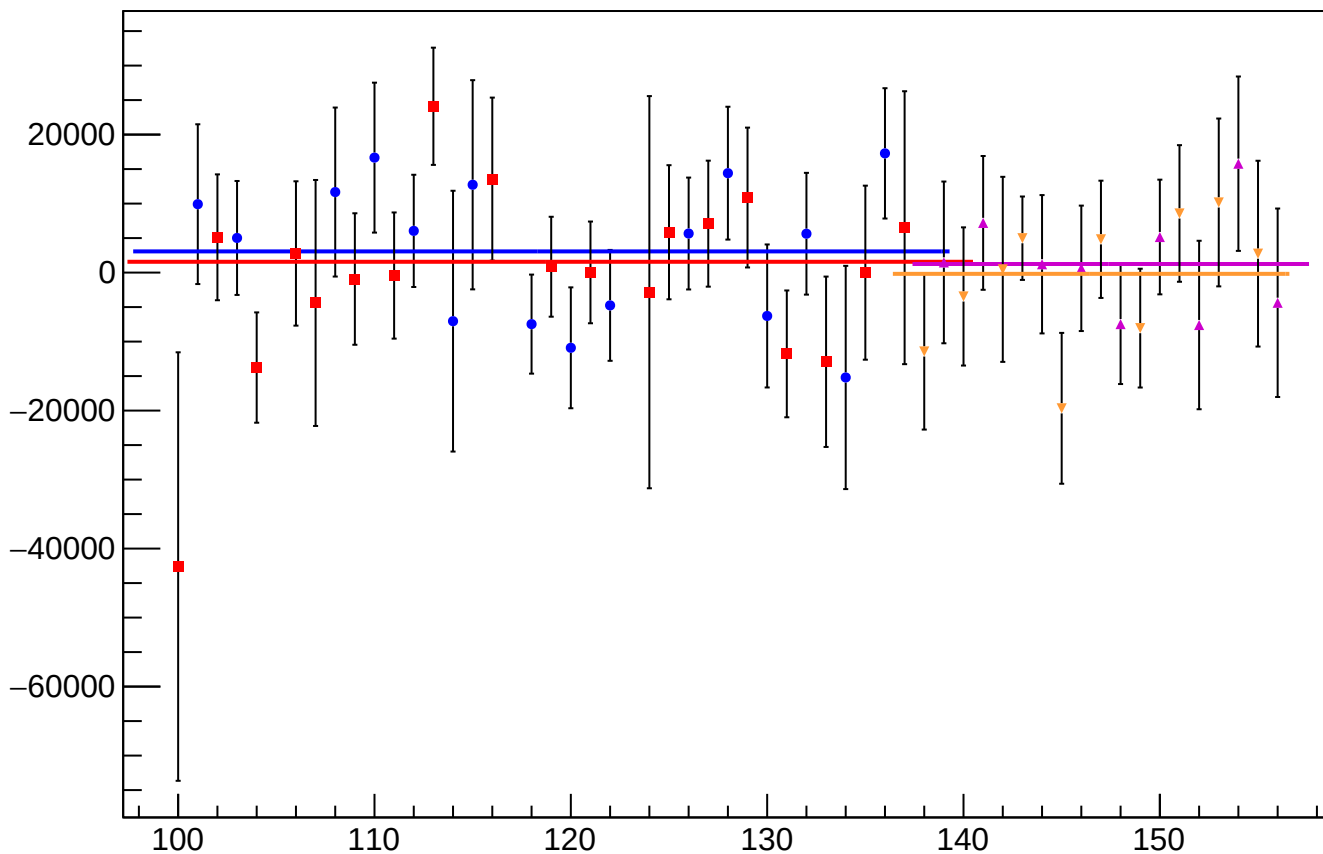
Right: 5849.037+/-1.110 χ^2/NDF : 1207832.6/33

In: 7086.313+/-1.353 χ^2/NDF : 2518795.2/24

Out: 6663.781+/-1.300 χ^2/NDF : 2294230.4/26

All: 6866.658+/-0.938 χ^2/NDF : 4863724.9/51

asym_atl2_mean vs Slug, Sign Corrected



Right In: 3070.293+/-2420.721 χ^2/NDF : 14.9/15

Left Out: -182.386+/-3030.174 χ^2/NDF : 7.7/9

Right Out: 1567.088+/-2335.884 χ^2/NDF : 19.2/18

Left In: 1244.624+/-3409.381 χ^2/NDF : 3.6/8

Left: 447.377+/-2264.908 χ^2/NDF : 11.5/18

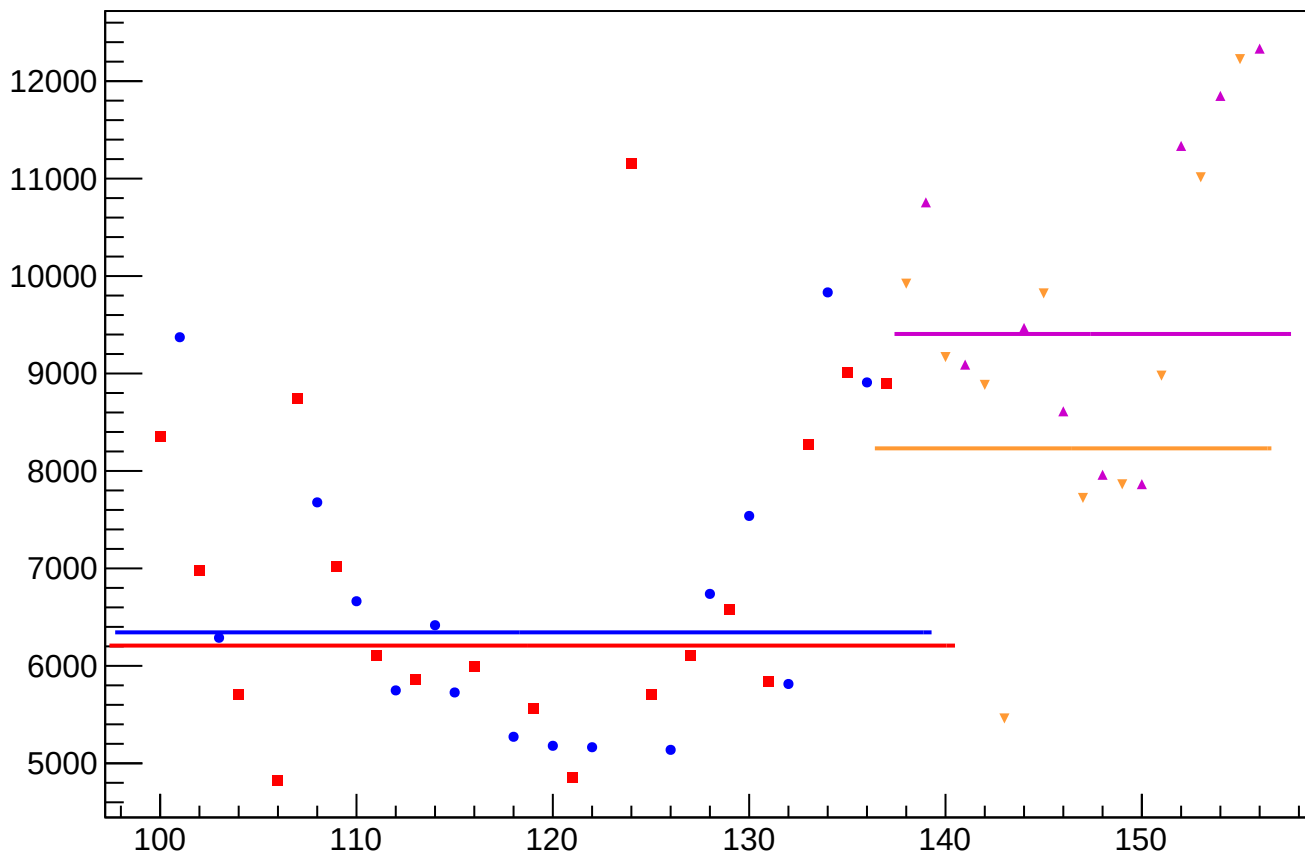
Right: 2291.888+/-1680.911 χ^2/NDF : 34.3/34

In: 2458.399+/-1973.798 χ^2/NDF : 18.7/24

Out: 914.980+/-1850.007 χ^2/NDF : 27.2/28

All: 1636.776+/-1349.795 χ^2/NDF : 46.2/53

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6343.796+/-1.712 χ^2/NDF : 621240.2/15

Left Out: 8231.853+/-2.143 χ^2/NDF : 832455.5/9

Right Out: 6208.099+/-1.652 χ^2/NDF : 471840.9/18

Left In: 9405.692+/-2.411 χ^2/NDF : 384671.4/8

Left: 8749.887+/-1.602 χ^2/NDF : 1349579.8/18

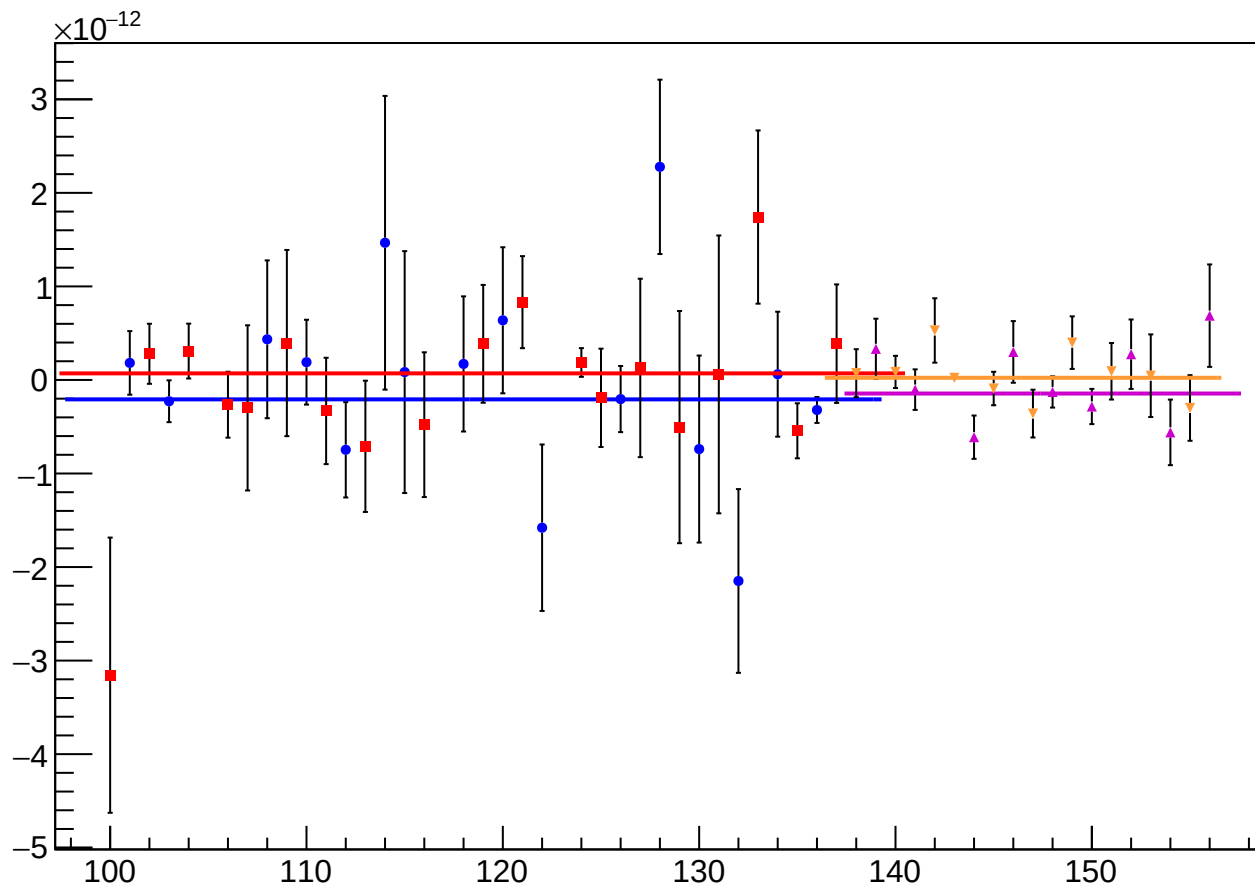
Right: 6273.528+/-1.189 χ^2/NDF : 1096335.5/34

In: 7370.024+/-1.396 χ^2/NDF : 2078359.3/24

Out: 6962.440+/-1.308 χ^2/NDF : 1863867.6/28

All: 7153.051+/-0.954 χ^2/NDF : 3987626.2/53

asym_atl2_reg_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 : 7.7/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 20.9/18

Left In: -0.000 ± 0.000 χ^2/NDF : 13.7/8

Left: 0.000 ± 0.000 χ^2/NDF : 24.8/18

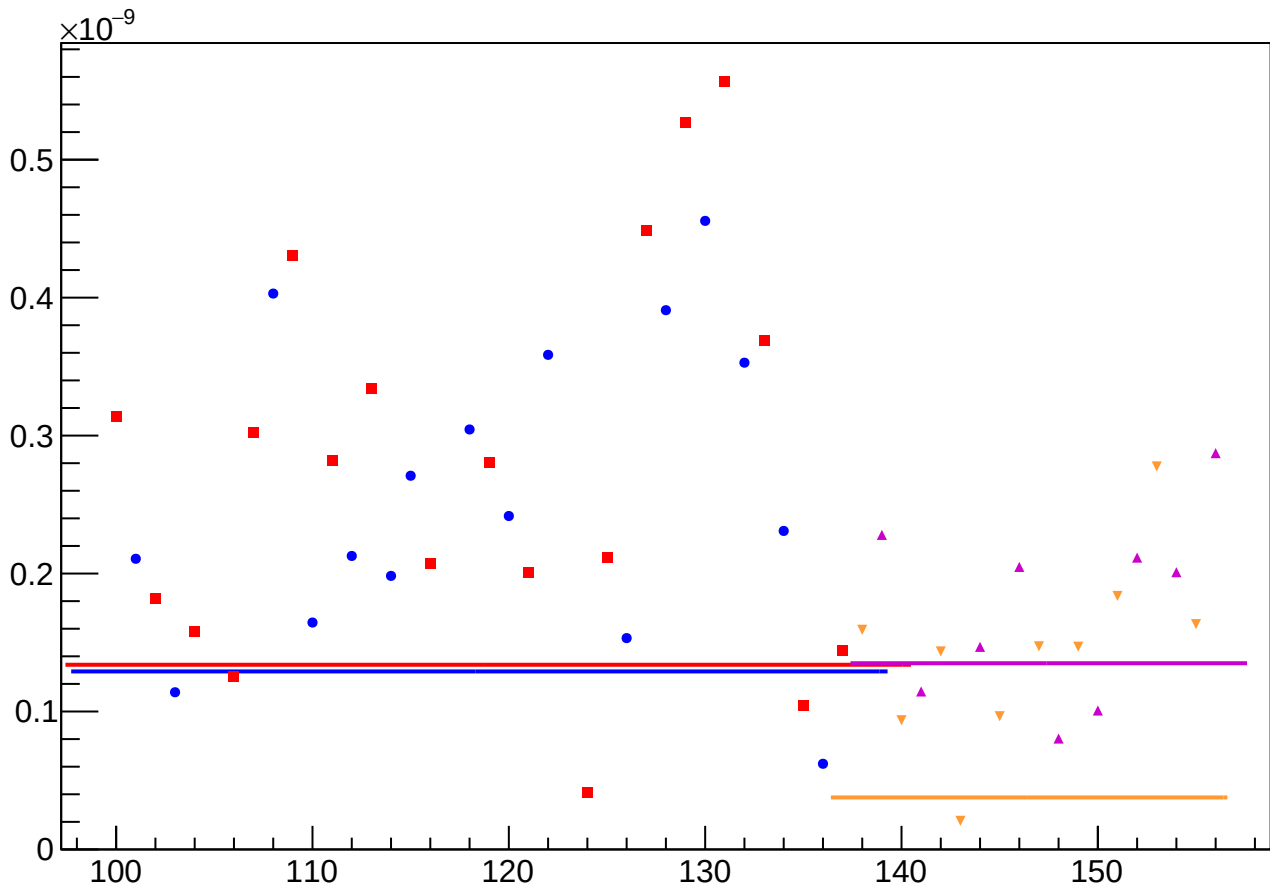
Right: -0.000 ± 0.000 χ^2/NDF : 46.0/34

In: -0.000 ± 0.000 χ^2/NDF : 34.8/24

Out: 0.000 ± 0.000 χ^2/NDF : 28.8/28

All: -0.000 ± 0.000 χ^2/NDF : 71.8/53

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 : 3505330.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2304489.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 870078.5/8

Left: 0.000+/-0.000 χ^2/NDF : 6702578.0/18

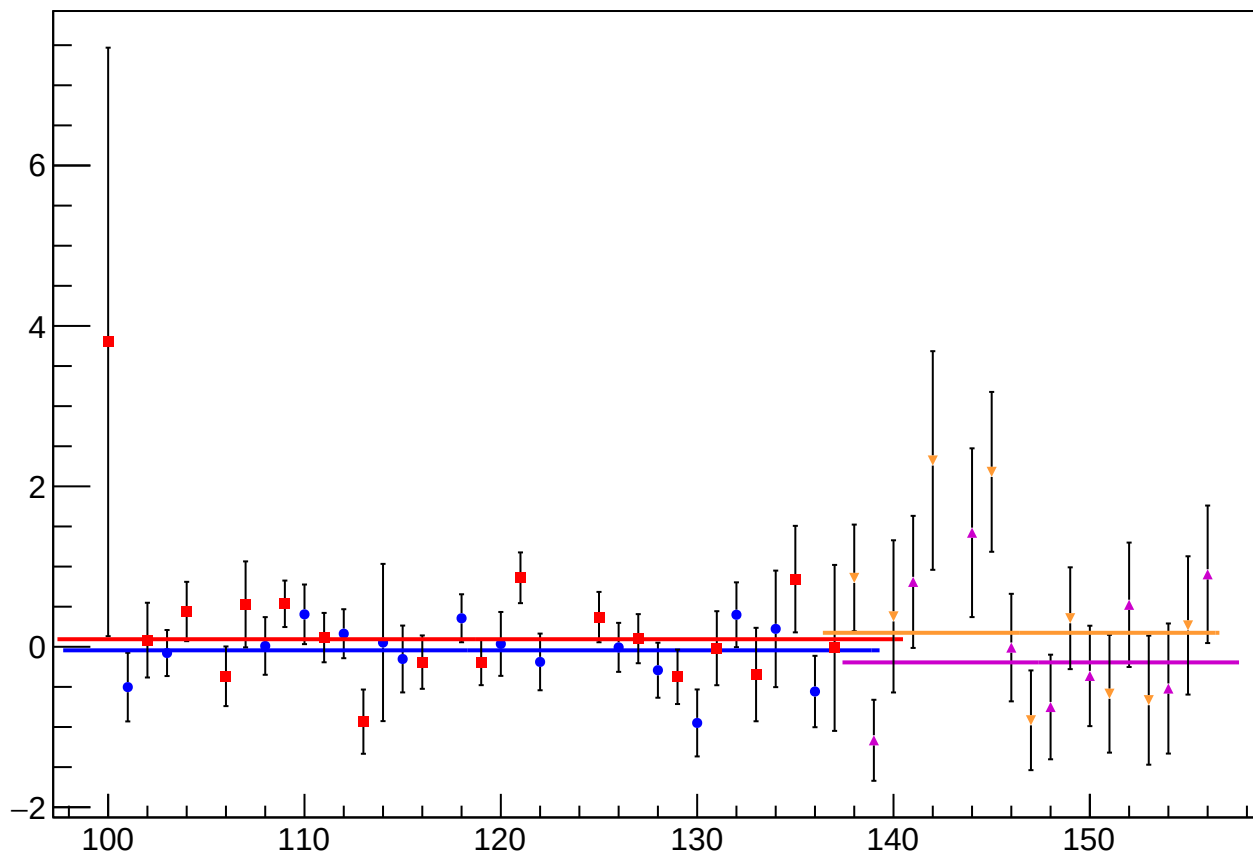
Right: 0.000+/-0.000 χ^2/NDF : 4027379.9/34

In: 0.000+/-0.000 χ^2/NDF : 2594780.3/24

Out: 0.000+/-0.000 χ^2/NDF : 7617496.7/28

All: 0.000+/-0.000 χ^2/NDF : 13114526.9/53

asym_atl2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: 0.174 ± 0.261 χ^2/NDF : 13.0/8

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.195 ± 0.236 χ^2/NDF : 11.1/8

Left: -0.028 ± 0.175 χ^2/NDF : 25.2/17

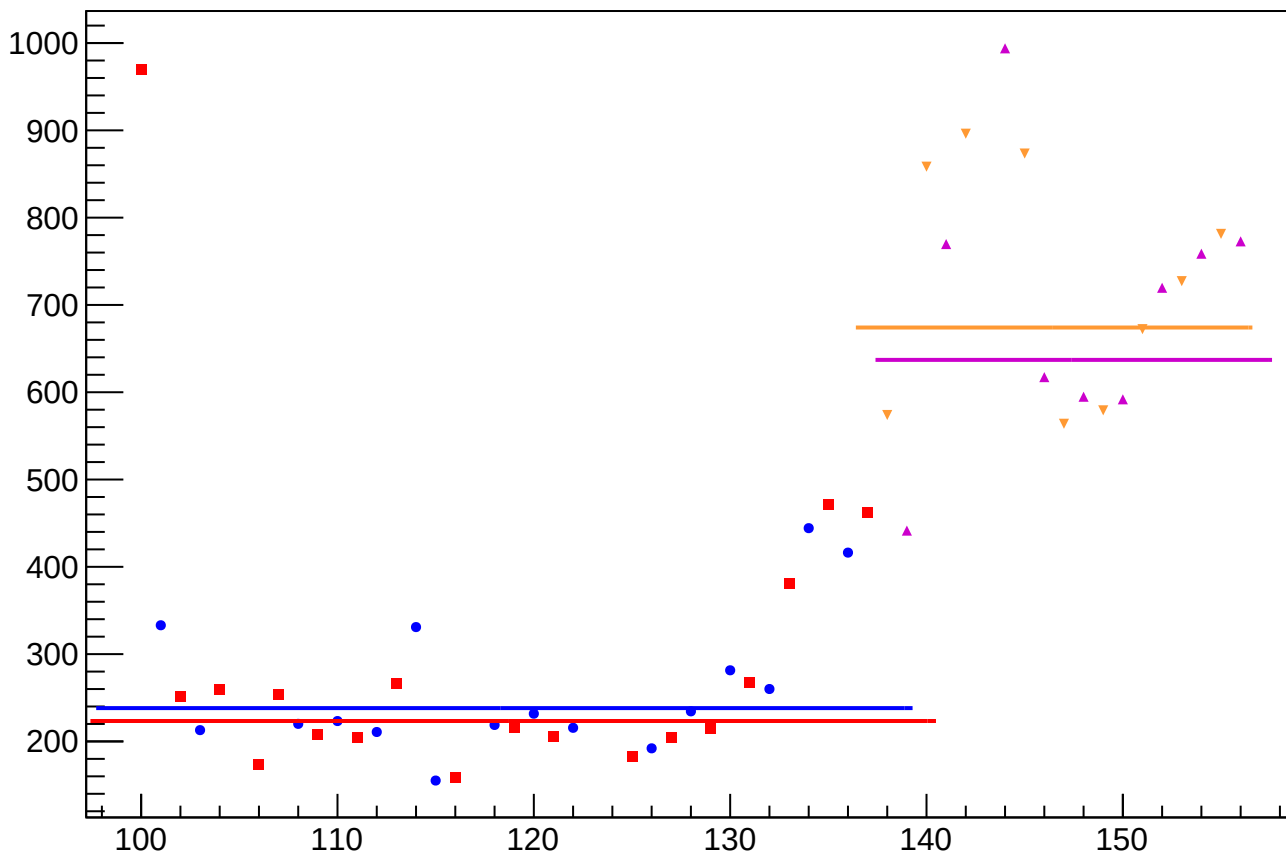
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.065 ± 0.087 χ^2/NDF : 24.5/24

Out: 0.103 ± 0.085 χ^2/NDF : 38.3/26

All: 0.021 ± 0.061 χ^2/NDF : 64.7/51

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: 674.137+/-0.184 χ^2/NDF : 401306.2/8

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 637.063+/-0.167 χ^2/NDF : 720588.9/8

Left: 653.763+/-0.124 χ^2/NDF : 1144154.9/17

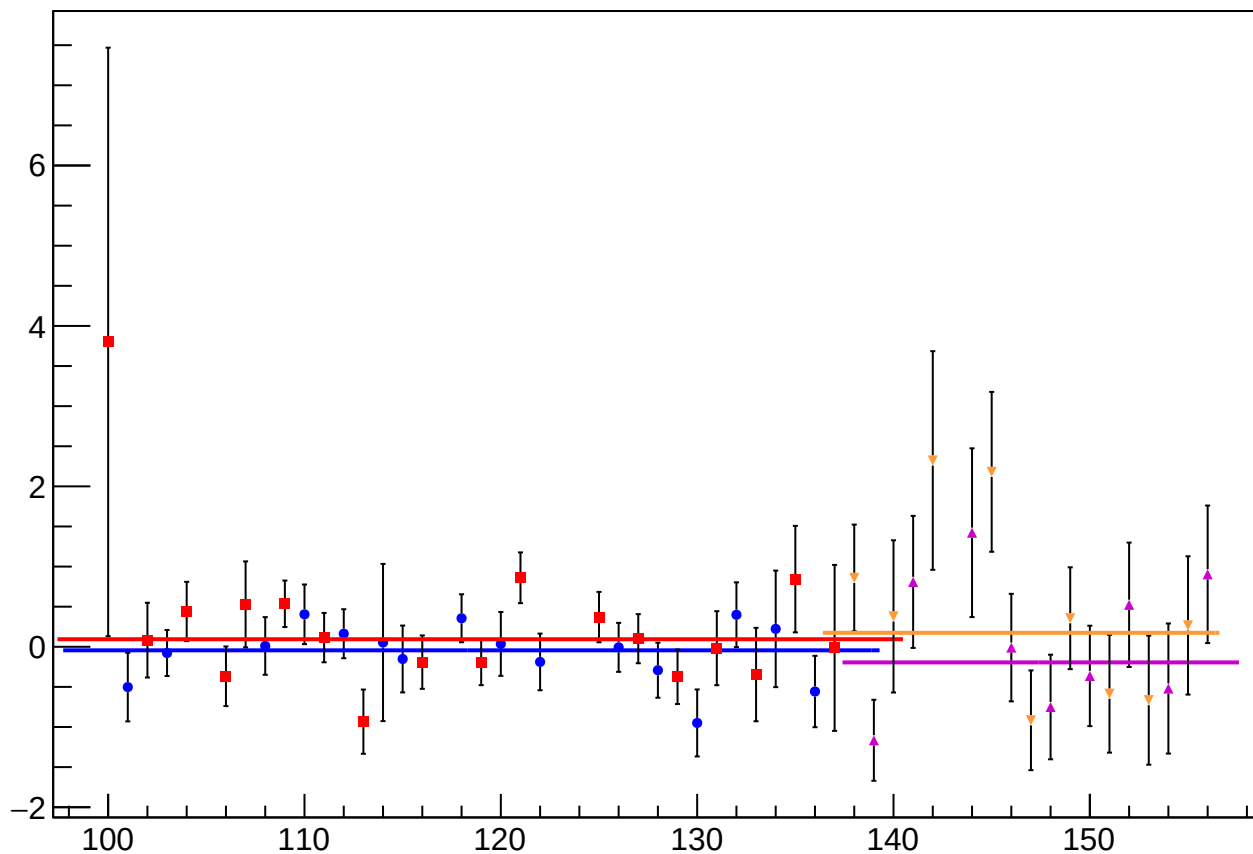
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 292.639+/-0.062 χ^2/NDF : 6467298.3/24

Out: 271.484+/-0.060 χ^2/NDF : 6612551.5/26

All: 281.808+/-0.043 χ^2/NDF : 13140169.9/51

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: 0.174 ± 0.261 χ^2/NDF : 13.0/8

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.195 ± 0.236 χ^2/NDF : 11.1/8

Left: -0.028 ± 0.175 χ^2/NDF : 25.2/17

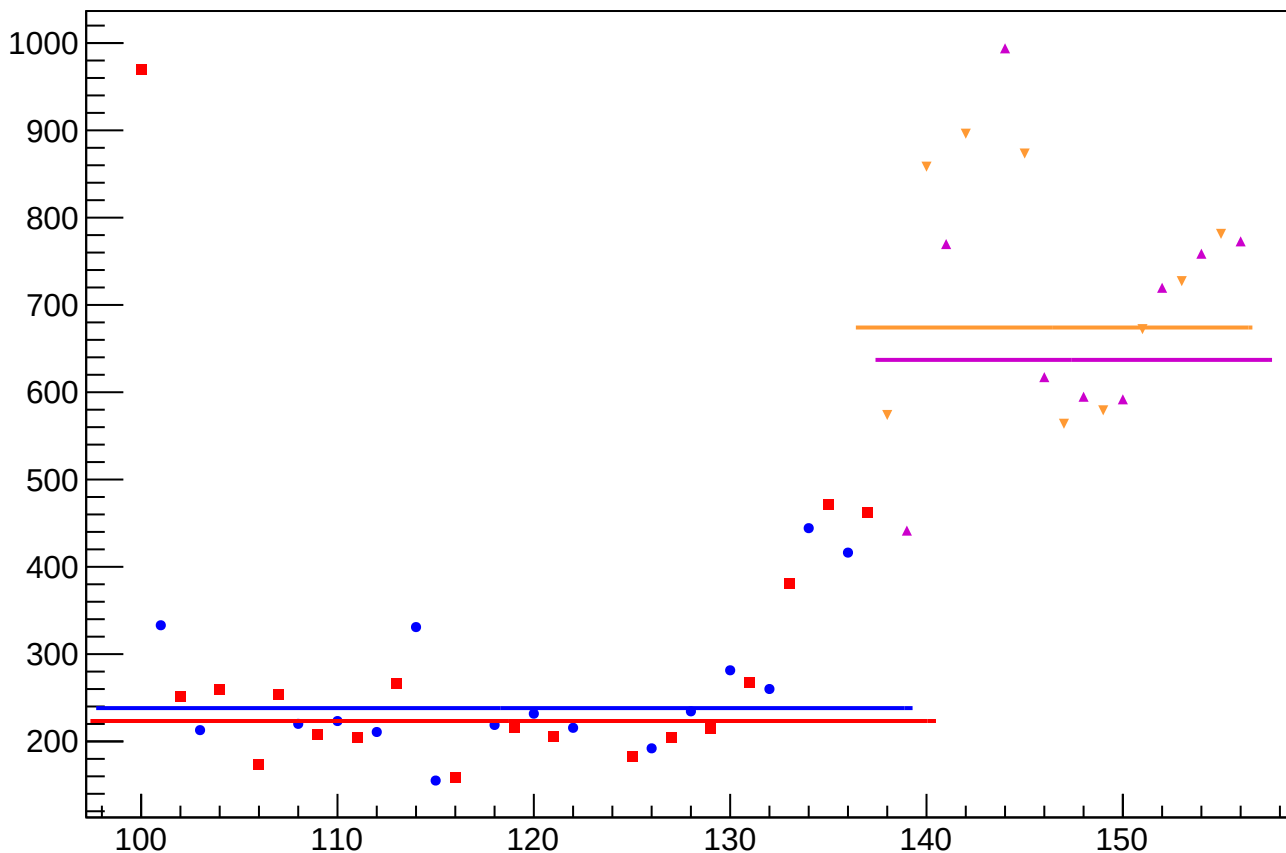
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.065 ± 0.087 χ^2/NDF : 24.5/24

Out: 0.103 ± 0.085 χ^2/NDF : 38.3/26

All: 0.021 ± 0.061 χ^2/NDF : 64.7/51

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: 674.137+/-0.184 χ^2/NDF : 401306.2/8

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 637.063+/-0.167 χ^2/NDF : 720588.9/8

Left: 653.763+/-0.124 χ^2/NDF : 1144154.9/17

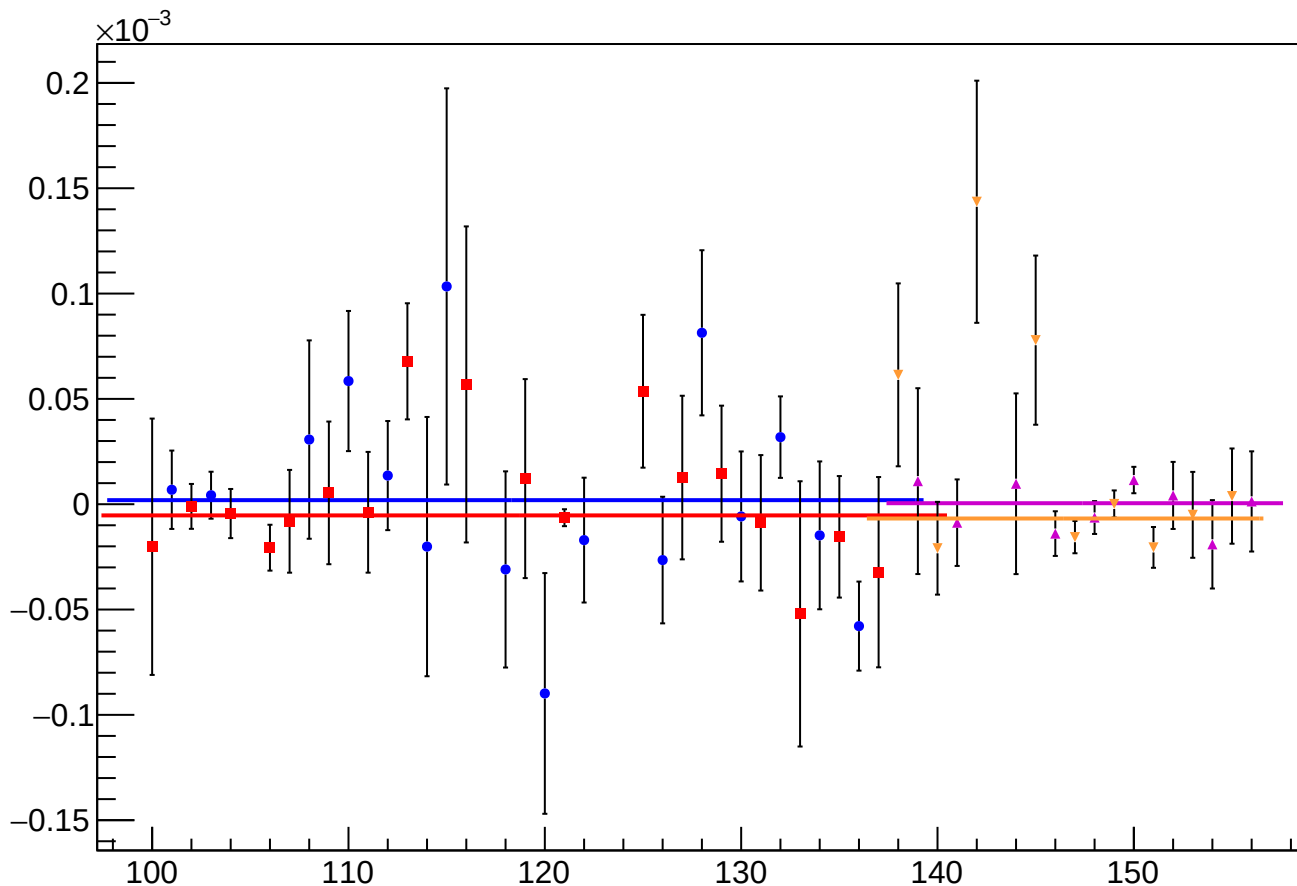
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 292.639+/-0.062 χ^2/NDF : 6467298.3/24

Out: 271.484+/-0.060 χ^2/NDF : 6612551.5/26

All: 281.808+/-0.043 χ^2/NDF : 13140169.9/51

asym_atl2_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 : 18.9/8

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

Left In: 0.000+/-0.000 χ^2/NDF : 6.9/8

Left: -0.000+/-0.000 χ^2/NDF : 27.4/17

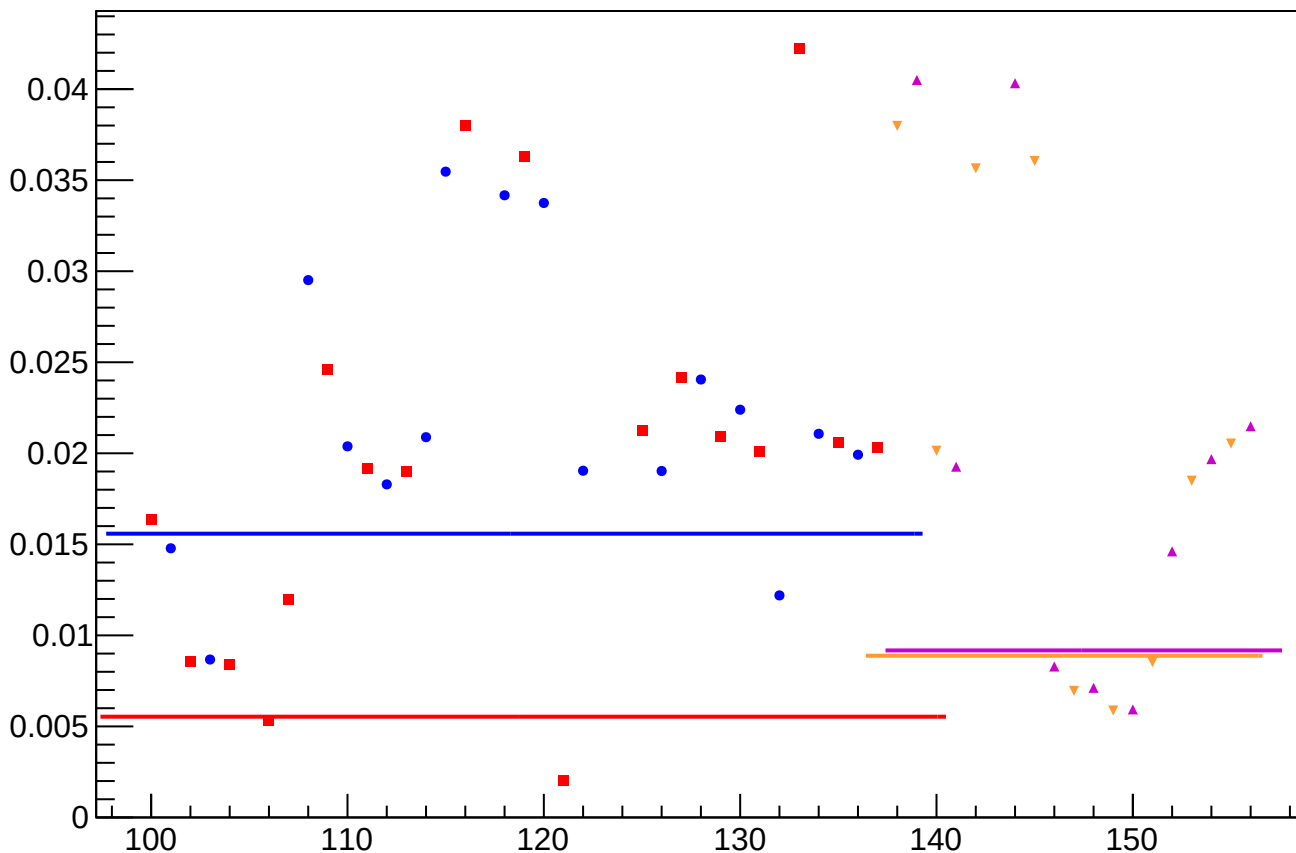
Right: -0.000+/-0.000 χ^2/NDF : 39.6/33

In: 0.000+/-0.000 χ^2/NDF : 31.0/24

Out: -0.000+/-0.000 χ^2/NDF : 33.5/26

All: -0.000+/-0.000 χ^2/NDF : 67.1/51

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: 0.009+/-0.000 χ^2/NDF : 4314424.1/8

Right Out: 0.006+/-0.000 χ^2/NDF : 7954965.8/17

Left In: 0.009+/-0.000 χ^2/NDF : 4504430.1/8

Left: 0.009+/-0.000 χ^2/NDF : 8824068.4/17

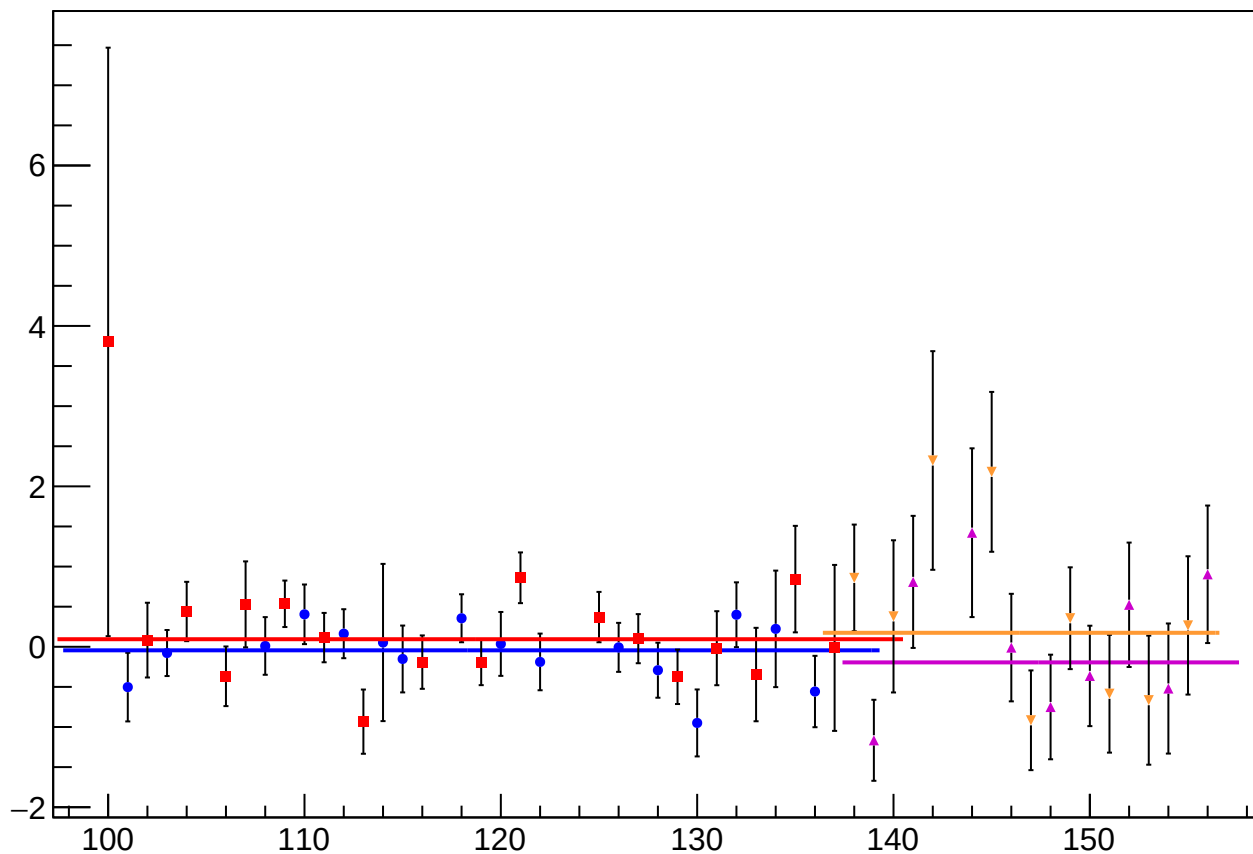
Right: 0.008+/-0.000 χ^2/NDF : 13999634.8/33

In: 0.011+/-0.000 χ^2/NDF : 8028037.2/24

Out: 0.007+/-0.000 χ^2/NDF : 13100700.8/26

All: 0.008+/-0.000 χ^2/NDF : 23089601.4/51

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: 0.174 ± 0.261 χ^2/NDF : 13.0/8

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.195 ± 0.236 χ^2/NDF : 11.1/8

Left: -0.028 ± 0.175 χ^2/NDF : 25.2/17

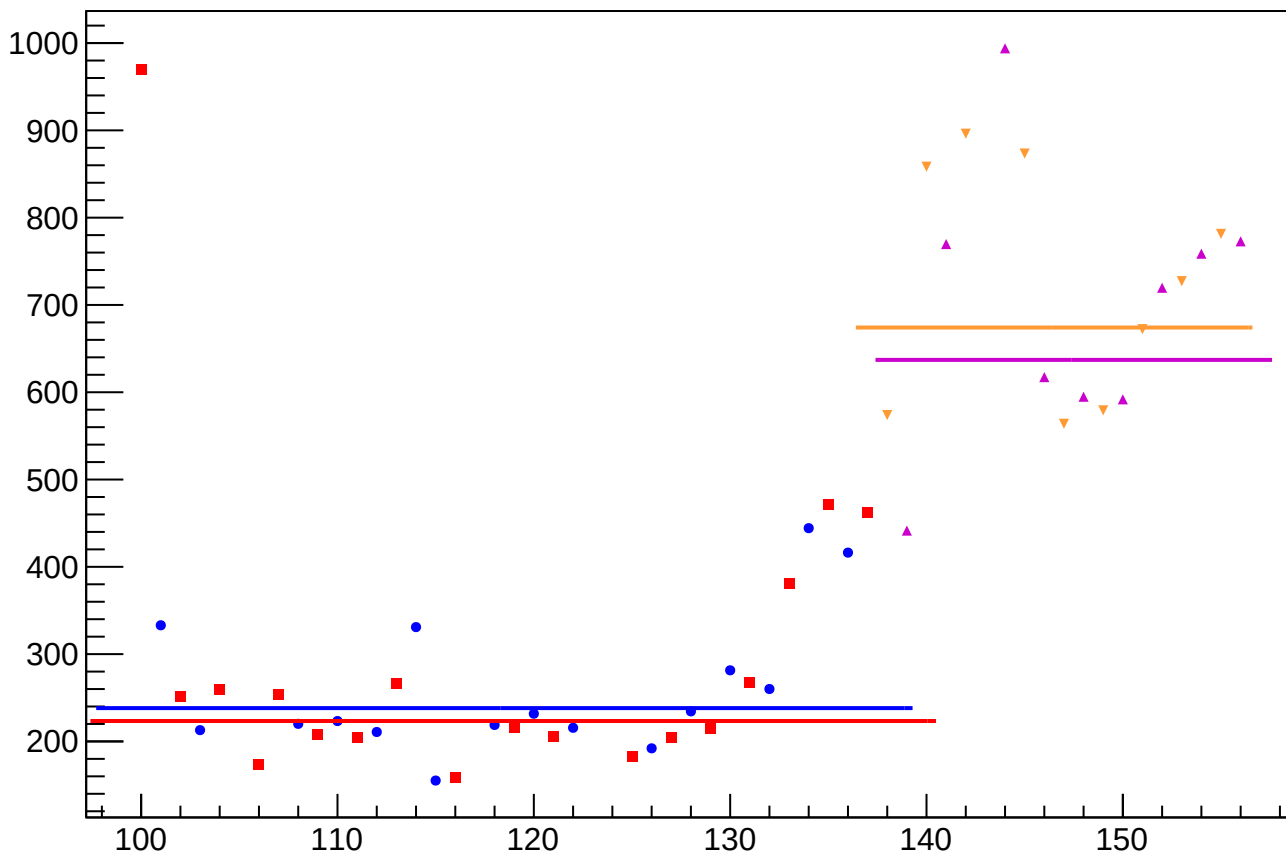
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.065 ± 0.087 χ^2/NDF : 24.5/24

Out: 0.103 ± 0.085 χ^2/NDF : 38.3/26

All: 0.021 ± 0.061 χ^2/NDF : 64.8/51

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: 674.142+/-0.184 χ^2/NDF : 401344.0/8

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 637.072+/-0.167 χ^2/NDF : 720576.9/8

Left: 653.771+/-0.124 χ^2/NDF : 1144175.9/17

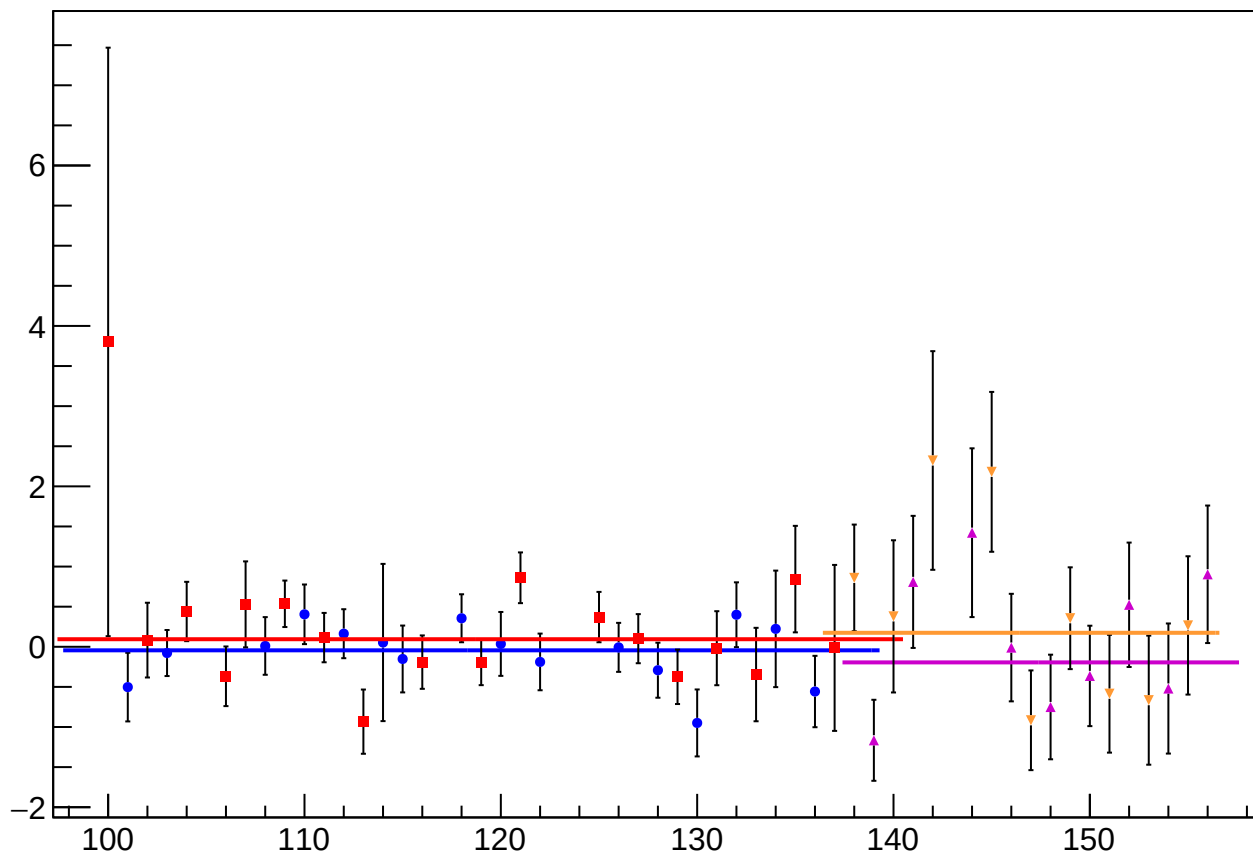
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 292.639+/-0.062 χ^2/NDF : 6467339.4/24

Out: 271.486+/-0.060 χ^2/NDF : 6612533.1/26

All: 281.809+/-0.043 χ^2/NDF : 13140187.7/51

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 $\chi^2/\text{NDF}: 13.1/15$

Left Out: 0.174 ± 0.261 $\chi^2/\text{NDF}: 13.0/8$

Right Out: 0.094 ± 0.090 $\chi^2/\text{NDF}: 25.3/17$

Left In: -0.195 ± 0.236 $\chi^2/\text{NDF}: 11.1/8$

Left: -0.028 ± 0.175 $\chi^2/\text{NDF}: 25.2/17$

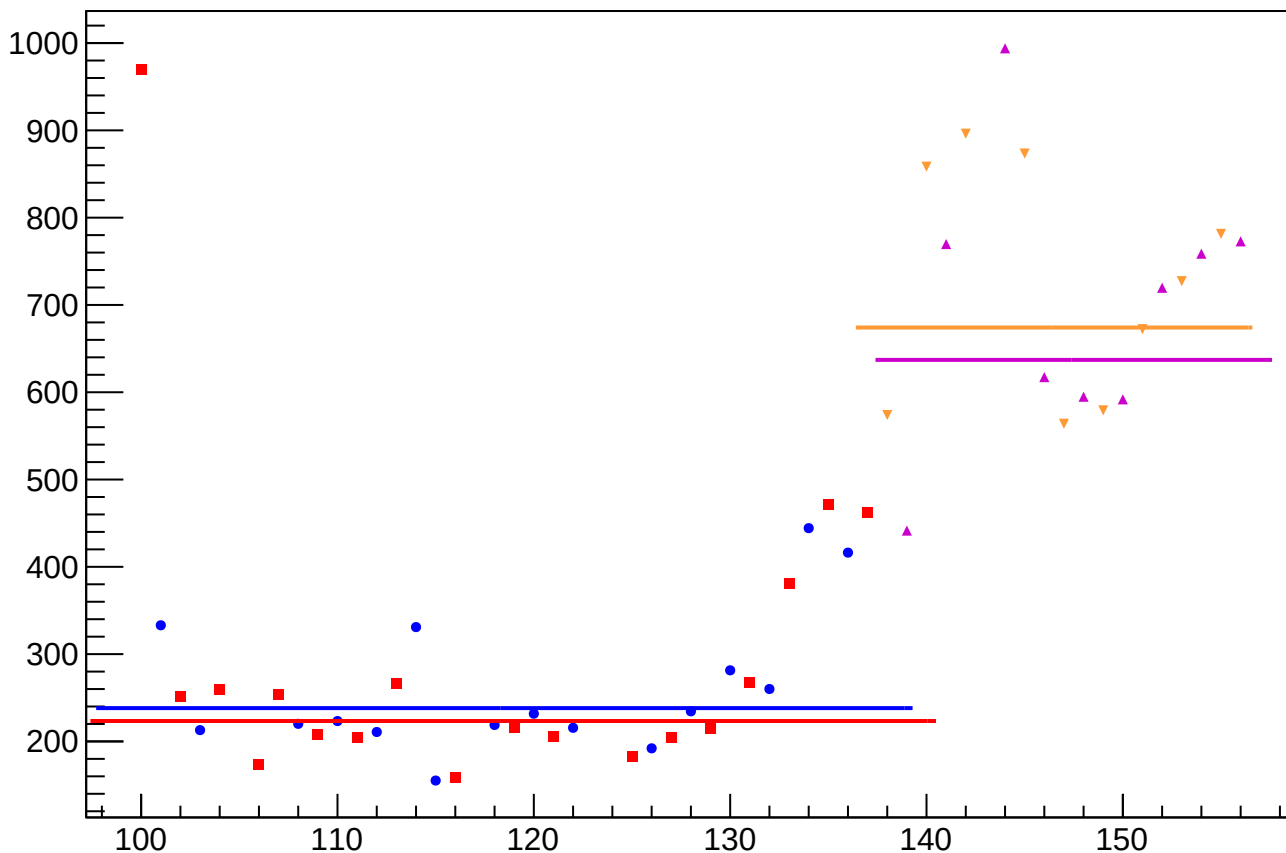
Right: 0.028 ± 0.065 $\chi^2/\text{NDF}: 39.5/33$

In: -0.065 ± 0.087 $\chi^2/\text{NDF}: 24.5/24$

Out: 0.103 ± 0.085 $\chi^2/\text{NDF}: 38.3/26$

All: 0.021 ± 0.061 $\chi^2/\text{NDF}: 64.8/51$

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: 674.142+/-0.184 χ^2/NDF : 401344.0/8

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 637.072+/-0.167 χ^2/NDF : 720576.9/8

Left: 653.771+/-0.124 χ^2/NDF : 1144175.9/17

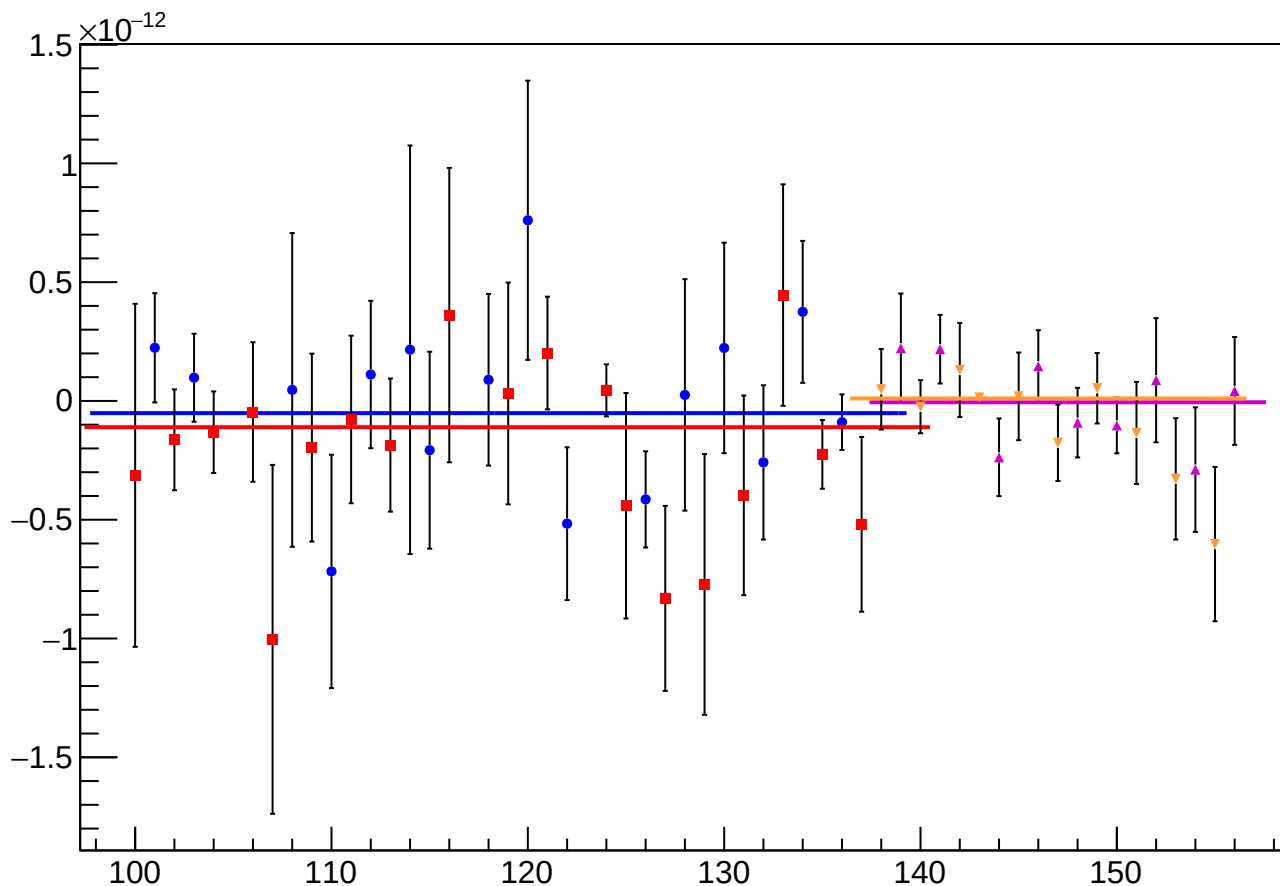
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 292.639+/-0.062 χ^2/NDF : 6467339.4/24

Out: 271.486+/-0.060 χ^2/NDF : 6612533.1/26

All: 281.809+/-0.043 χ^2/NDF : 13140187.7/51

asym_atl2_eigen_cor_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 : 7.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.8/8

Left: 0.000+/-0.000 χ^2/NDF : 16.6/18

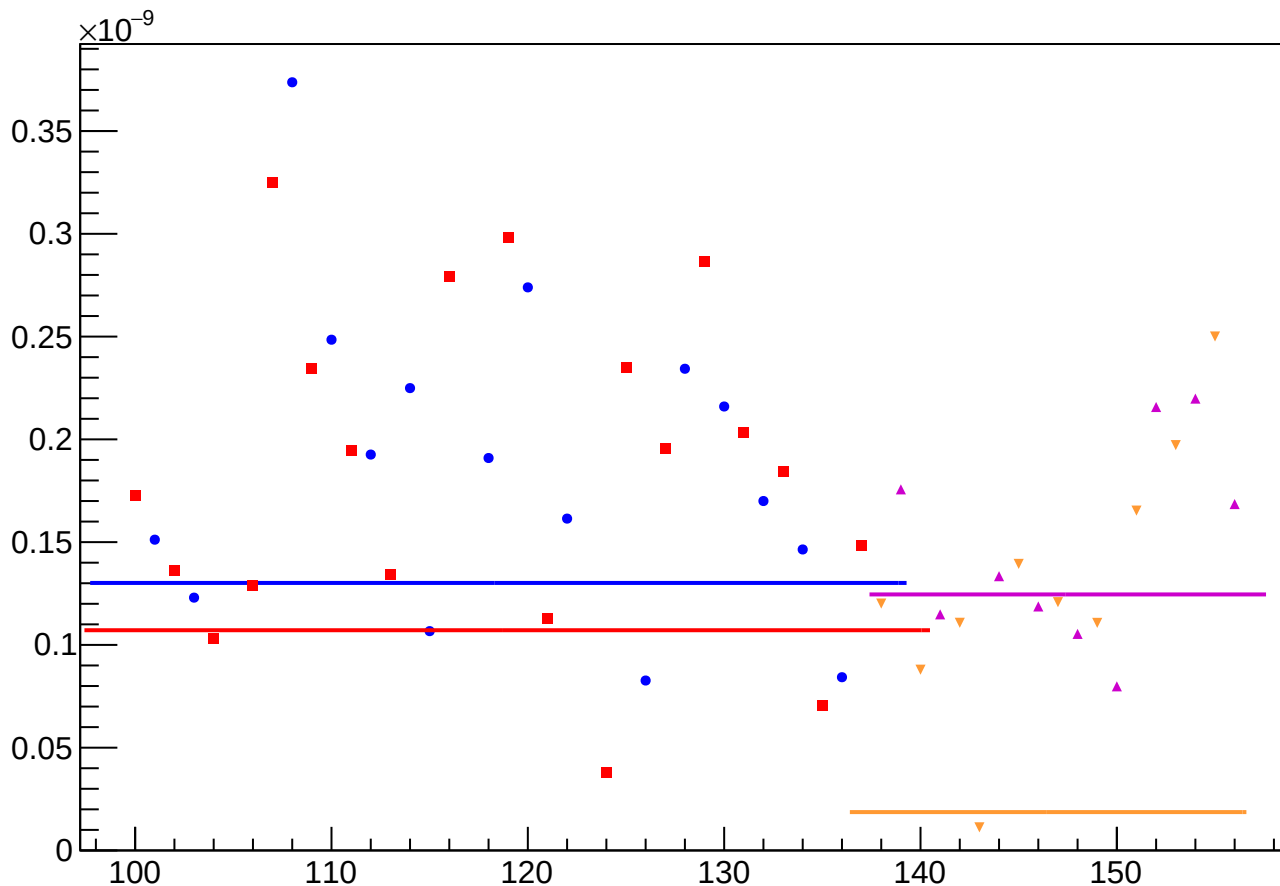
Right: -0.000+/-0.000 χ^2/NDF : 30.6/34

In: -0.000+/-0.000 χ^2/NDF : 23.8/24

Out: 0.000+/-0.000 χ^2/NDF : 27.1/28

All: 0.000+/-0.000 χ^2/NDF : 51.3/53

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 : 7739576.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2656168.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1024164.2/8

Left: 0.000+/-0.000 χ^2/NDF : 15382913.3/18

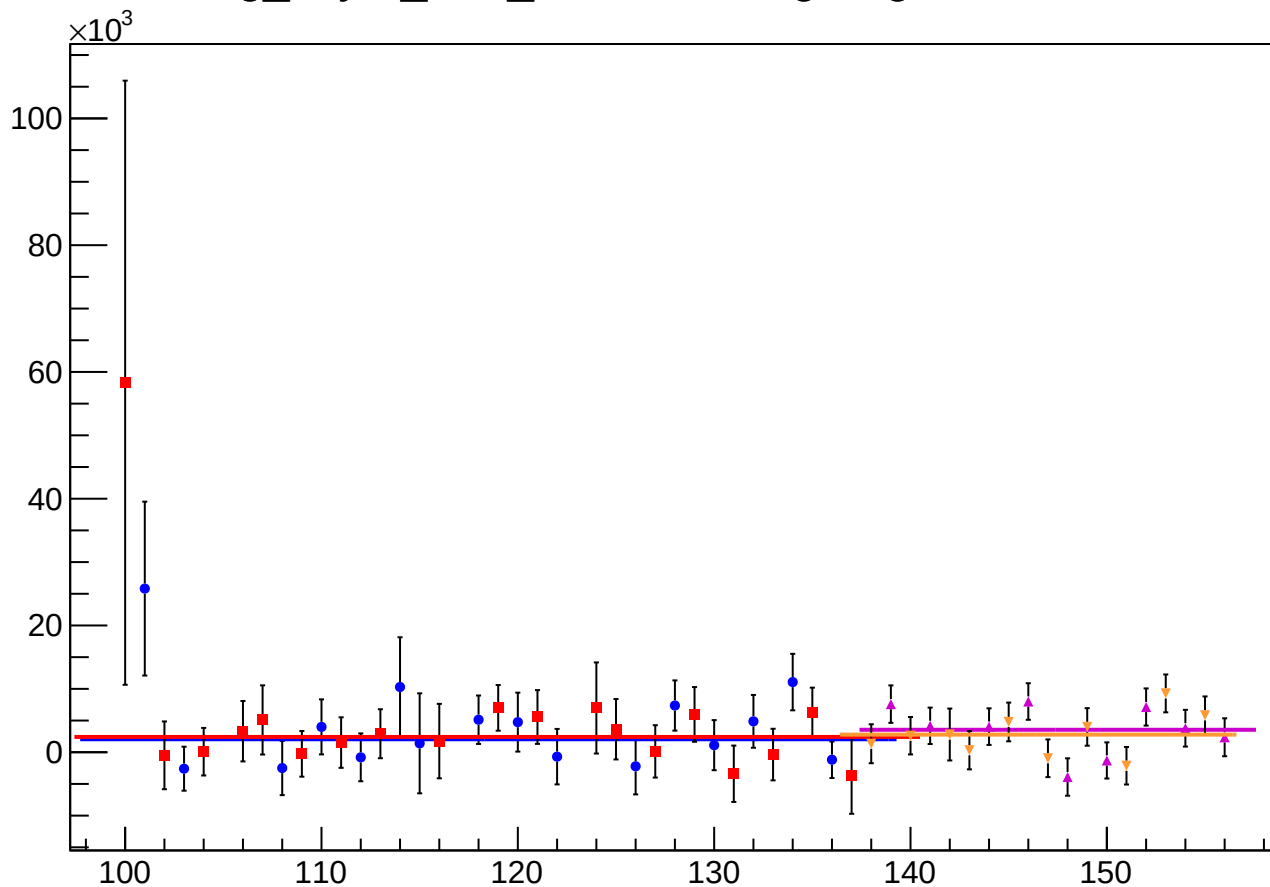
Right: 0.000+/-0.000 χ^2/NDF : 4122173.2/34

In: 0.000+/-0.000 χ^2/NDF : 2366530.2/24

Out: 0.000+/-0.000 χ^2/NDF : 14620386.3/28

All: 0.000+/-0.000 χ^2/NDF : 27184460.0/53

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2049.493 $\pm$ 1070.395 χ^2 /NDF: 17.8/15

Left Out: 2779.099 $\pm$ 969.908 χ^2 /NDF:11.6/9

Right Out: 2411.858 $\pm$ 1035.471 χ^2 /NDF: 10.8/18

Left In: 3544.269 $\pm$ 971.122 χ^2 /NDF:15.3/8

Left: 3161.205 $\pm$ 686.257 χ^2 /NDF: 27.2/18

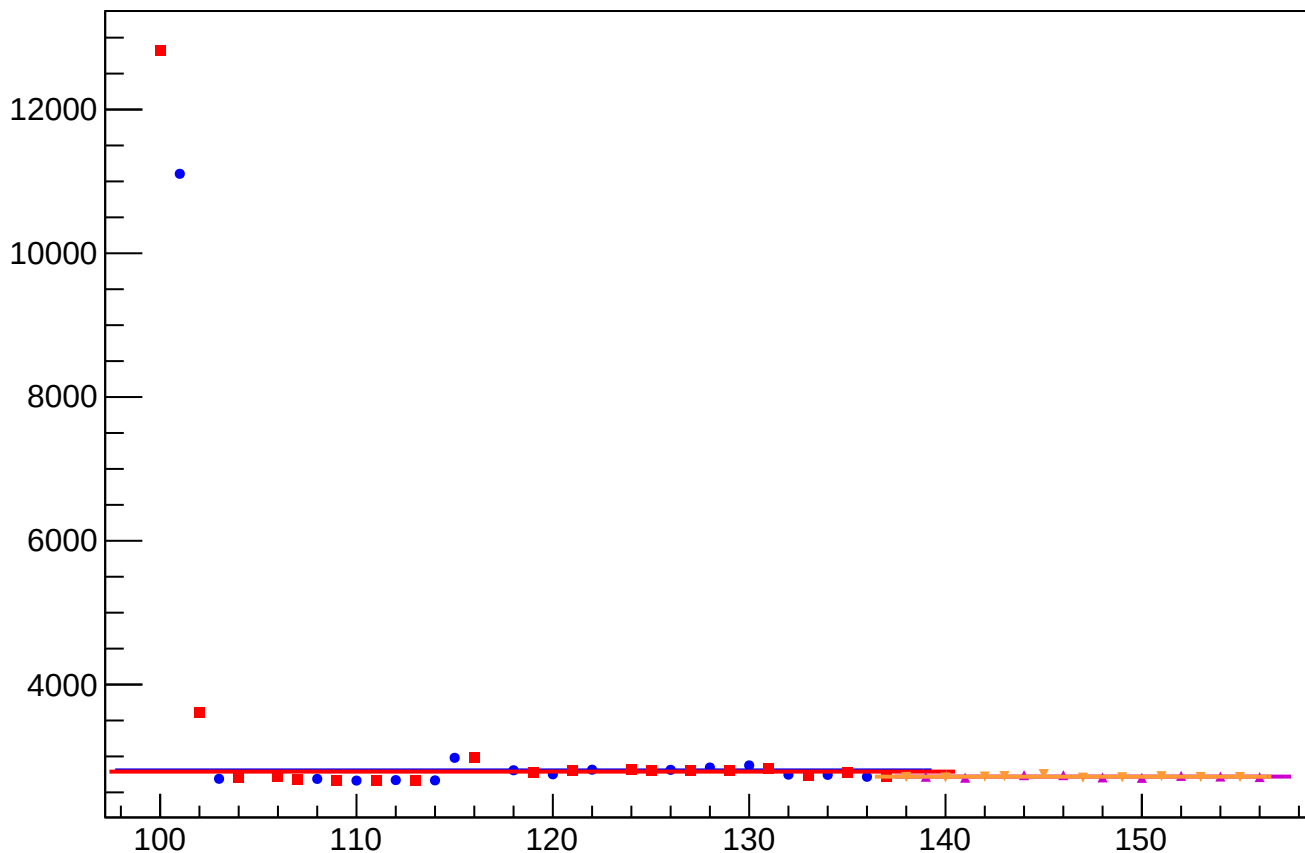
Right: 2236.684 $\pm$ 744.229 χ^2 /NDF: 28.6/34

In: 2869.396 $\pm$ 719.229 χ^2 /NDF:34.1/24

Out: 2607.472 $\pm$ 707.872 χ^2 /NDF:22.4/28

All: 2736.350 $\pm$ 504.508 χ^2 /NDF: 56.6/53

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746240.6/15

Left Out: 2718.498+/-0.686 χ^2/NDF : 384.8/9

Right Out: 2788.820+/-0.732 χ^2/NDF : 146998.3/18

Left In: 2719.580+/-0.687 χ^2/NDF : 383.7/8

Left: 2719.039+/-0.485 χ^2/NDF : 769.8/18

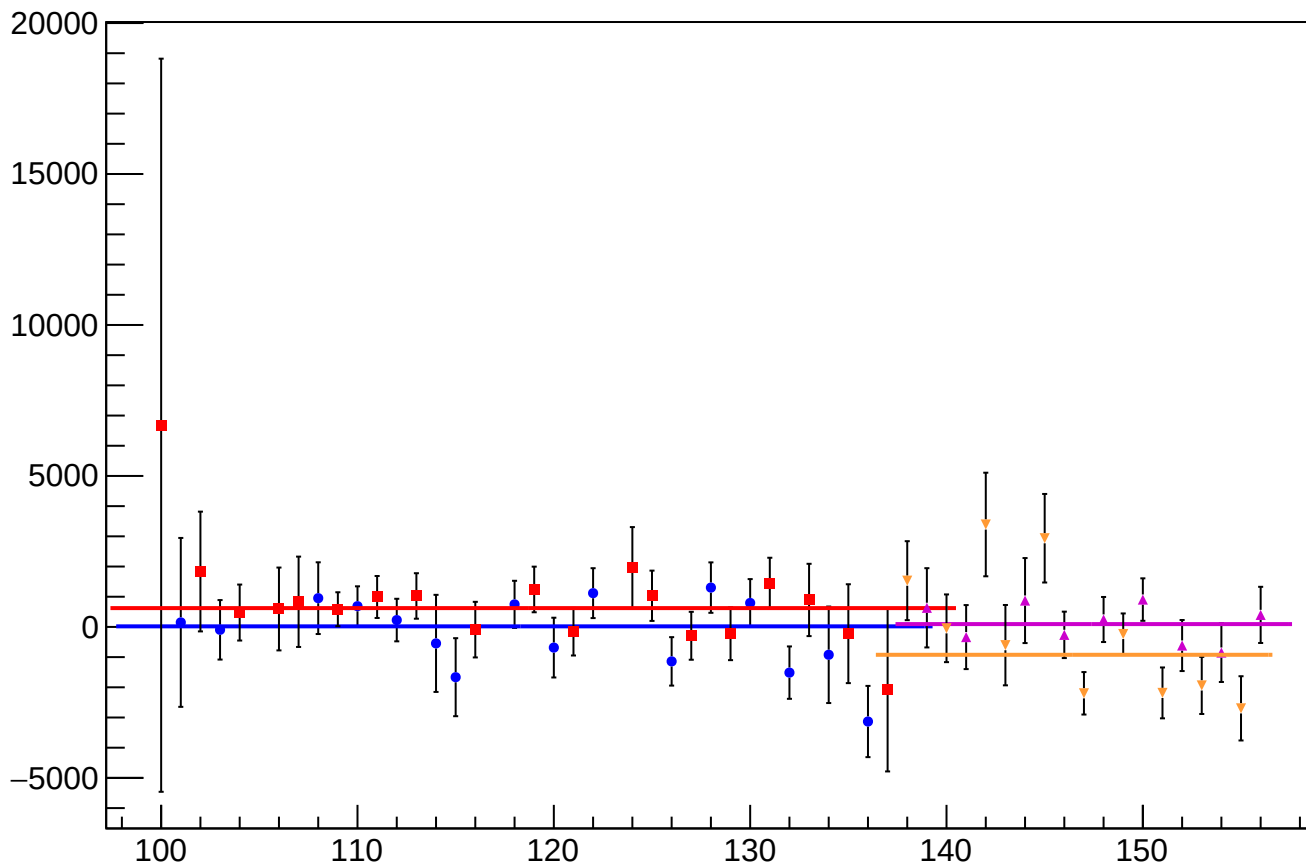
Right: 2796.857+/-0.526 χ^2/NDF : 893488.2/34

In: 2758.347+/-0.509 χ^2/NDF : 753683.7/24

Out: 2751.363+/-0.501 χ^2/NDF : 152296.5/28

All: 2754.800+/-0.357 χ^2/NDF : 906076.0/53

asym_atr1_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.981 ± 233.483 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -922.971 ± 310.998 $\chi^2/\text{NDF}: 27.9/9$

Right Out: 623.107 ± 215.948 $\chi^2/\text{NDF}: 9.3/18$

Left In: 93.705 ± 300.216 $\chi^2/\text{NDF}: 4.0/8$

Left: -396.703 ± 215.996 $\chi^2/\text{NDF}: 37.5/18$

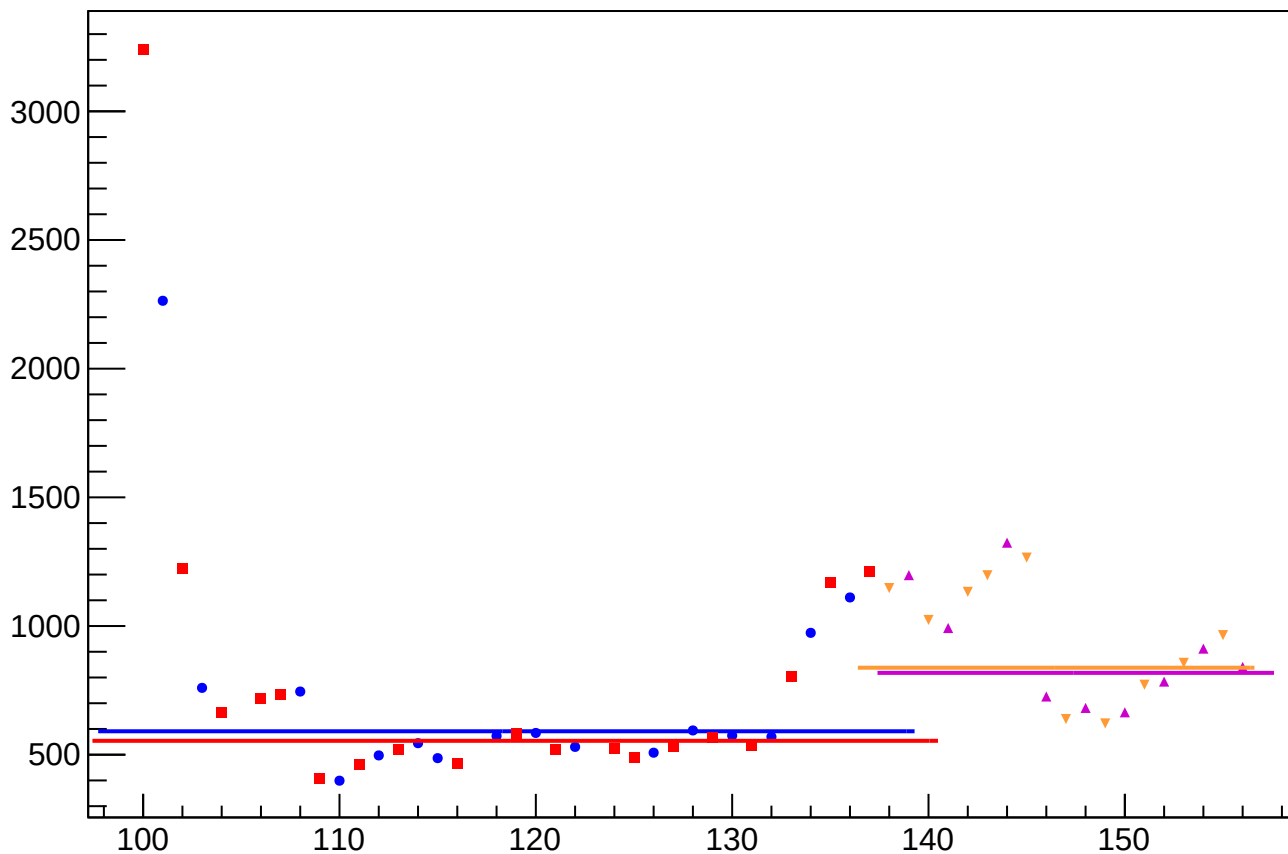
Right: 344.579 ± 158.535 $\chi^2/\text{NDF}: 35.6/34$

In: 47.144 ± 184.306 $\chi^2/\text{NDF}: 26.8/24$

Out: 120.161 ± 177.379 $\chi^2/\text{NDF}: 53.9/28$

All: 85.050 ± 127.805 $\chi^2/\text{NDF}: 80.7/53$

asym_atr1_reg_correction_rms vs Slug, Sign Corrected



Right In: 591.041+/-0.165 χ^2/NDF : 1567663.5/15

Left Out: 838.053+/-0.220 χ^2/NDF :946393.2/9

Right Out: 553.982+/-0.153 χ^2/NDF : 1116915.2/18

Left In: 817.973+/-0.212 χ^2/NDF :693069.2/8

Left: 827.659+/-0.153 χ^2/NDF : 1643778.3/18

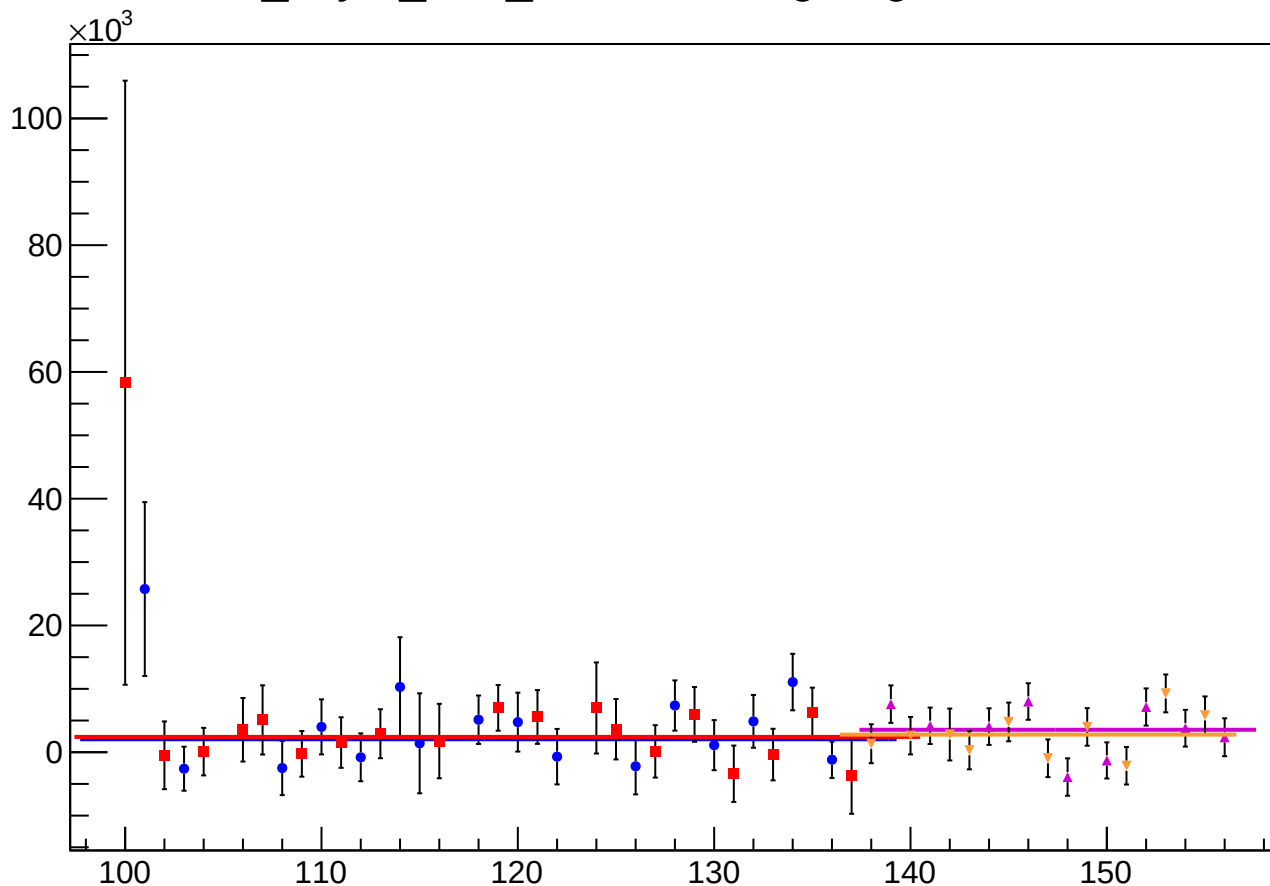
Right: 571.068+/-0.112 χ^2/NDF : 2711735.0/34

In: 676.569+/-0.130 χ^2/NDF :2972799.7/24

Out: 646.391+/-0.125 χ^2/NDF :3189146.2/28

All: 660.902+/-0.090 χ^2/NDF : 6189781.1/53

cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688 $\pm$ 1070.395 χ^2 /NDF: 17.8/15

Left Out: 2779.122 $\pm$ 969.908 χ^2 /NDF:11.6/9

Right Out: 2417.909 $\pm$ 1037.856 χ^2 /NDF: 10.8/18

Left In: 3544.445 $\pm$ 971.122 χ^2 /NDF:15.3/8

Left: 3161.305 $\pm$ 686.257 χ^2 /NDF: 27.2/18

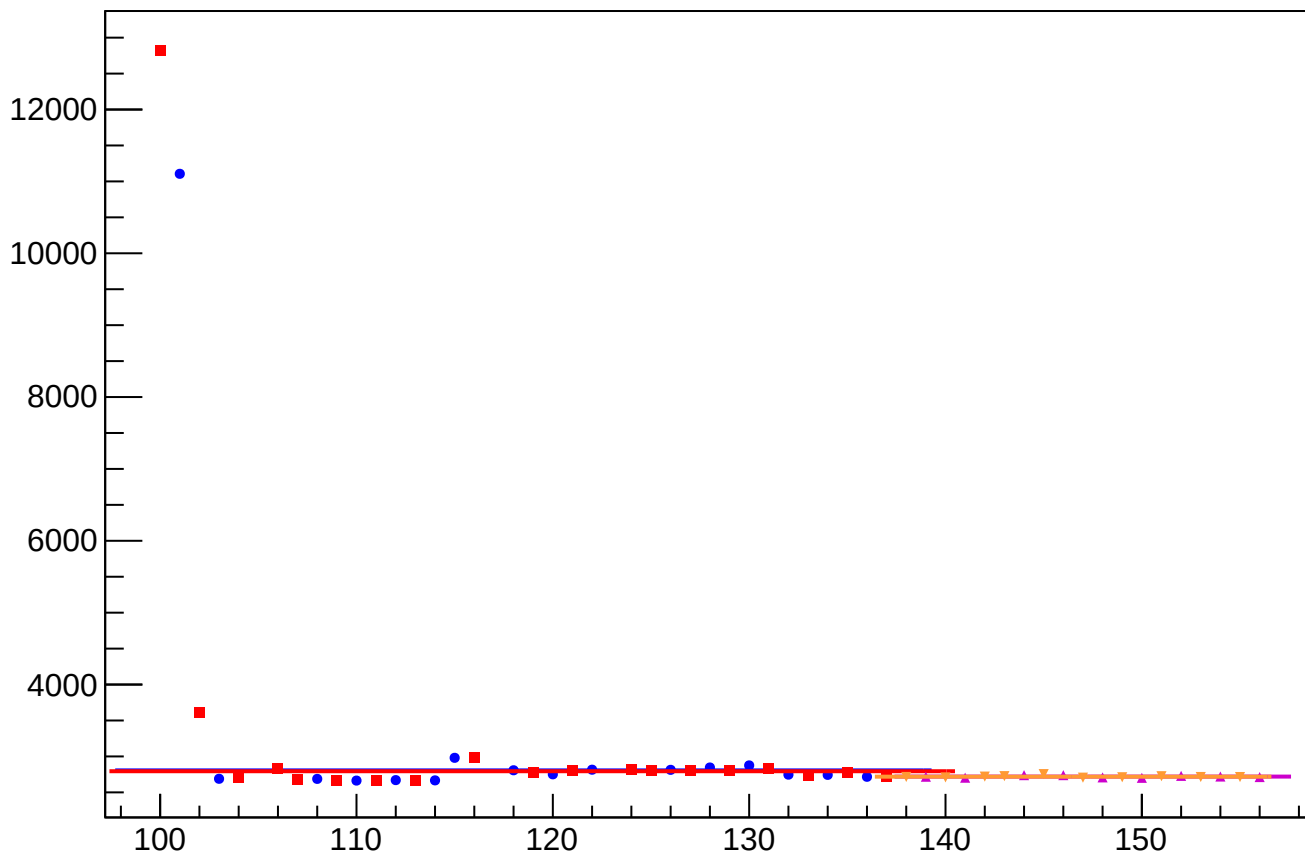
Right: 2238.996 $\pm$ 745.113 χ^2 /NDF: 28.6/34

In: 2869.129 $\pm$ 719.229 χ^2 /NDF:34.1/24

Out: 2610.726 $\pm$ 708.633 χ^2 /NDF:22.4/28

All: 2738.010 $\pm$ 504.784 χ^2 /NDF: 56.6/53

cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746239.8/15

Left Out: 2718.498+/-0.686 χ^2/NDF : 384.8/9

Right Out: 2794.157+/-0.734 χ^2/NDF : 146744.3/18

Left In: 2719.580+/-0.687 χ^2/NDF : 383.7/8

Left: 2719.039+/-0.485 χ^2/NDF : 769.8/18

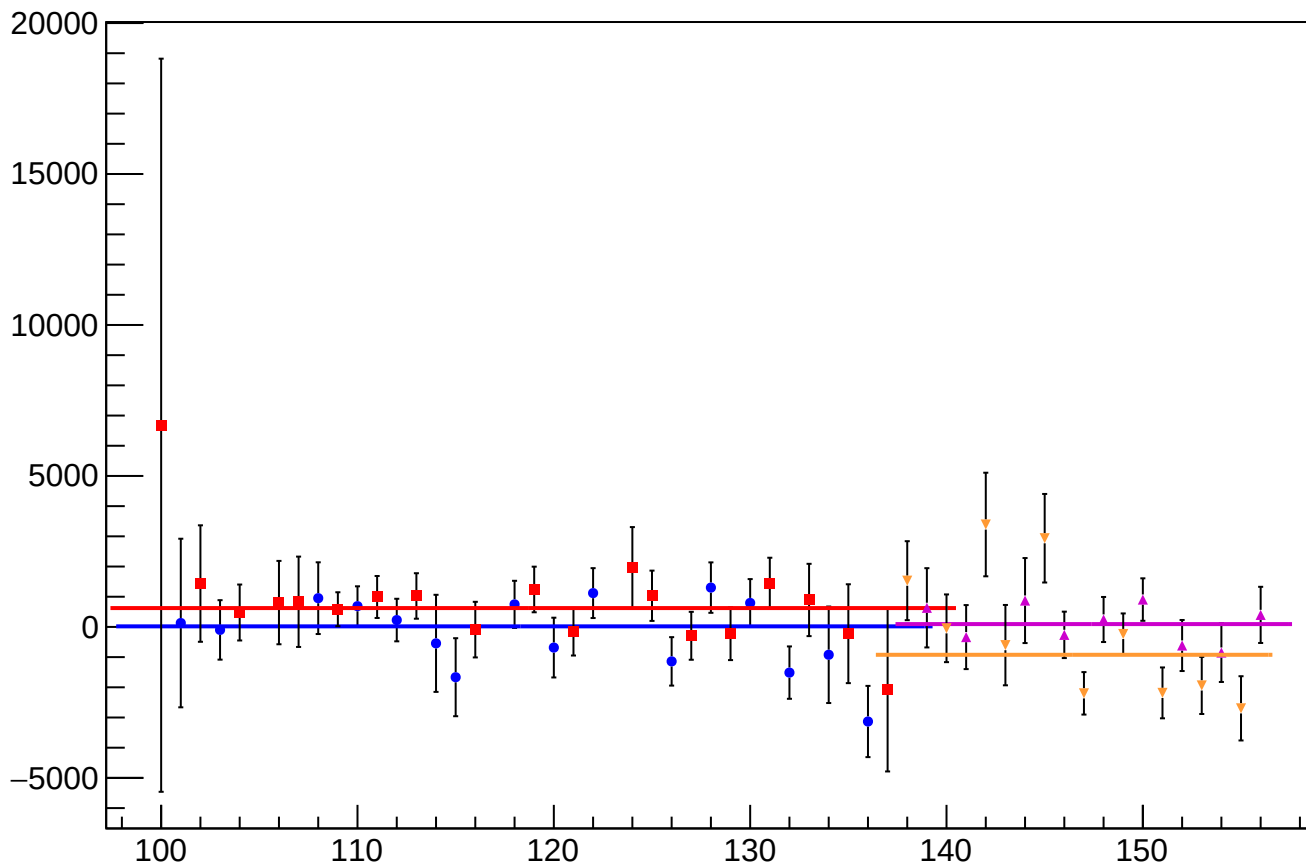
Right: 2799.627+/-0.527 χ^2/NDF : 893098.7/34

In: 2758.347+/-0.509 χ^2/NDF : 753682.8/24

Out: 2753.770+/-0.501 χ^2/NDF : 152802.6/28

All: 2756.025+/-0.357 χ^2/NDF : 906526.5/53

asym_atr1_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940 $\pm$ 233.471 χ^2/NDF : 22.8/15

Left Out: -922.932 $\pm$ 310.996 χ^2/NDF : 27.9/9

Right Out: 624.217 $\pm$ 215.902 χ^2/NDF : 9.1/18

Left In: 93.948 $\pm$ 300.215 χ^2/NDF : 4.0/8

Left: -396.561 $\pm$ 215.995 χ^2/NDF : 37.5/18

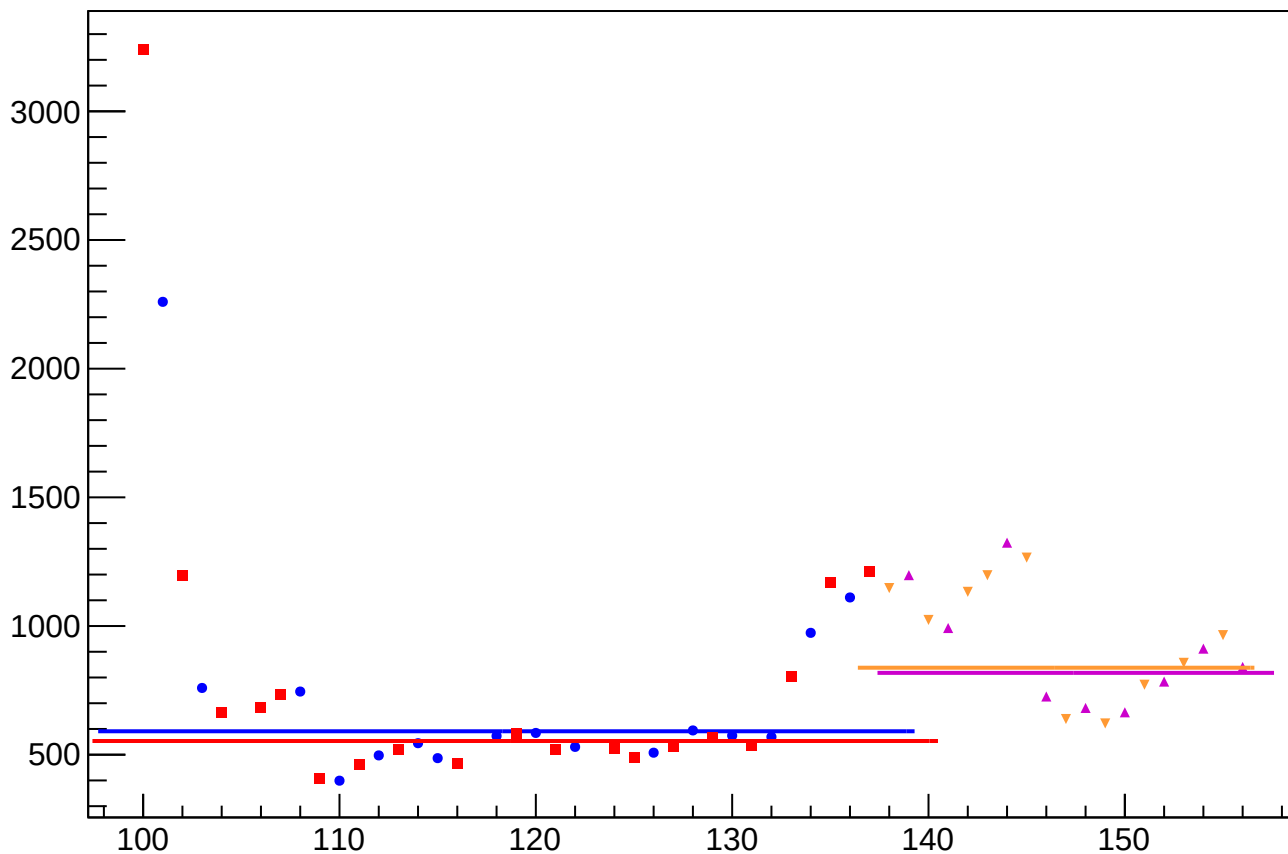
Right: 345.208 $\pm$ 158.513 χ^2/NDF : 35.5/34

In: 47.208 $\pm$ 184.300 χ^2/NDF : 26.8/24

Out: 121.064 $\pm$ 177.353 χ^2/NDF : 53.7/28

All: 85.554 $\pm$ 127.793 χ^2/NDF : 80.6/53

asym_atr1_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039 $\pm$ 0.165 χ^2/NDF : 156635.0/15

Left Out: 838.046 $\pm$ 0.220 χ^2/NDF :946402.3/9

Right Out: 553.233 $\pm$ 0.153 χ^2/NDF : 1101651.0/18

Left In: 817.970 $\pm$ 0.212 χ^2/NDF :693050.8/8

Left: 827.654 $\pm$ 0.153 χ^2/NDF : 1643767.2/18

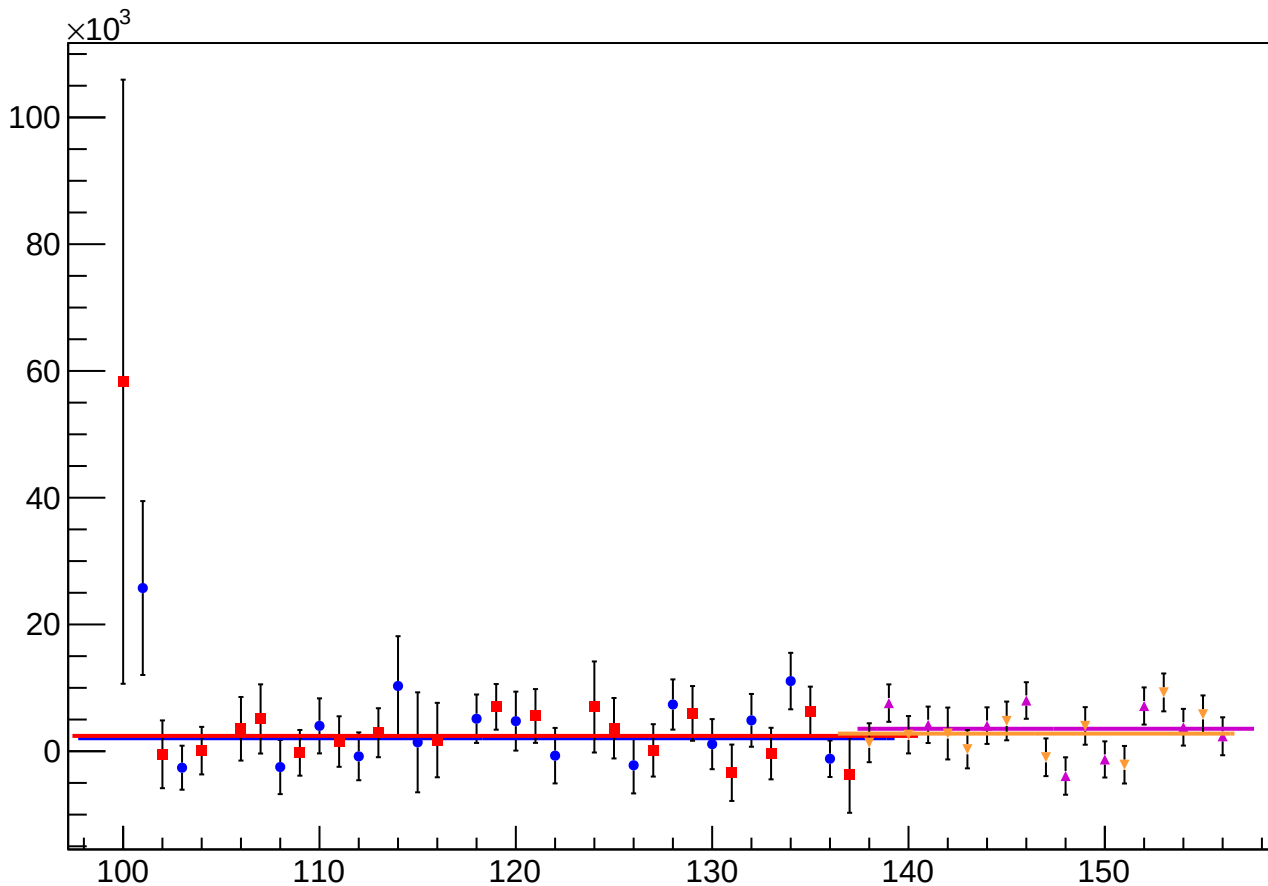
Right: 570.660 $\pm$ 0.112 χ^2/NDF : 2696555.4/34

In: 676.562 $\pm$ 0.130 χ^2/NDF :2971776.8/24

Out: 645.858 $\pm$ 0.125 χ^2/NDF :3179948.0/28

All: 660.620 $\pm$ 0.090 χ^2/NDF : 6180545.0/53

eigen_cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688 $\pm$ 1070.395 χ^2 /NDF: 17.8/15

Left Out: 2779.122 $\pm$ 969.908 χ^2 /NDF:11.6/9

Right Out: 2417.909 $\pm$ 1037.856 χ^2 /NDF: 10.8/18

Left In: 3544.445 $\pm$ 971.122 χ^2 /NDF:15.3/8

Left: 3161.305 $\pm$ 686.257 χ^2 /NDF: 27.2/18

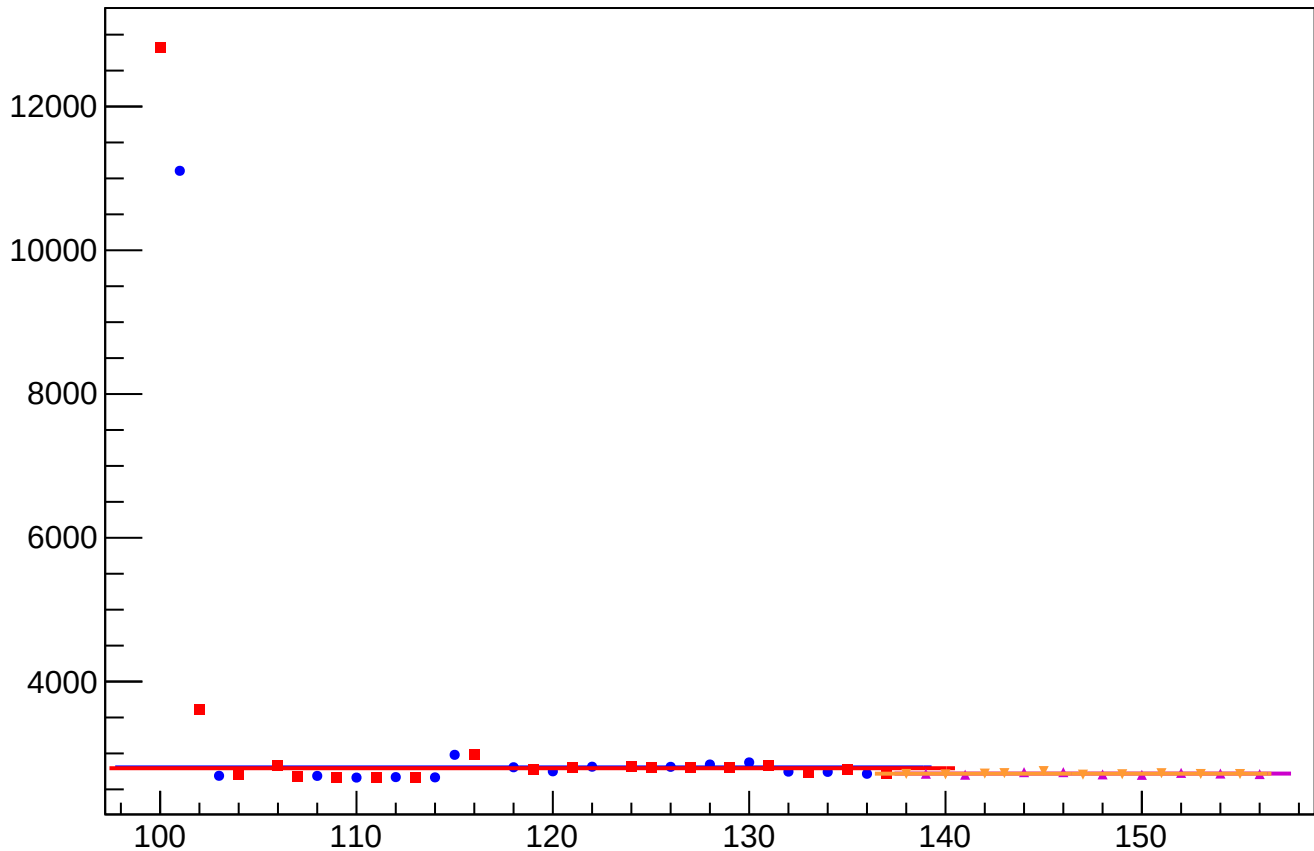
Right: 2238.996 $\pm$ 745.113 χ^2 /NDF: 28.6/34

In: 2869.129 $\pm$ 719.229 χ^2 /NDF:34.1/24

Out: 2610.726 $\pm$ 708.633 χ^2 /NDF:22.4/28

All: 2738.010 $\pm$ 504.784 χ^2 /NDF: 56.6/53

eigen_cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746239.8/15

Left Out: 2718.498+/-0.686 χ^2/NDF :384.8/9

Right Out: 2794.157+/-0.734 χ^2/NDF : 146744.3/18

Left In: 2719.580+/-0.687 χ^2/NDF :383.7/8

Left: 2719.039+/-0.485 χ^2/NDF : 769.8/18

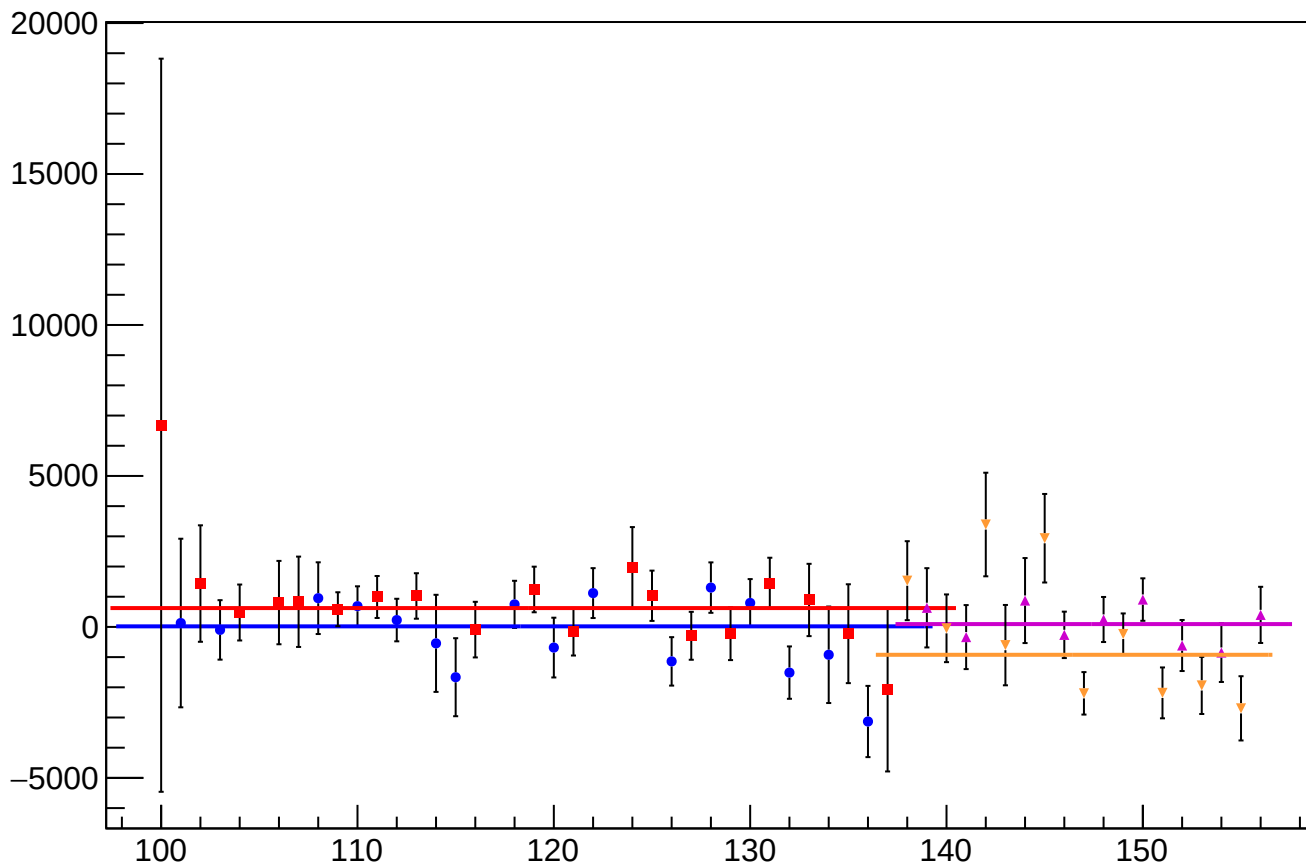
Right: 2799.627+/-0.527 χ^2/NDF : 893098.7/34

In: 2758.347+/-0.509 χ^2/NDF :753682.8/24

Out: 2753.770+/-0.501 χ^2/NDF :152802.6/28

All: 2756.025+/-0.357 χ^2/NDF : 906526.5/53

asym_atr1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940 ± 233.471 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -922.932 ± 310.996 $\chi^2/\text{NDF}: 27.9/9$

Right Out: 624.217 ± 215.902 $\chi^2/\text{NDF}: 9.1/18$

Left In: 93.948 ± 300.215 $\chi^2/\text{NDF}: 4.0/8$

Left: -396.561 ± 215.995 $\chi^2/\text{NDF}: 37.5/18$

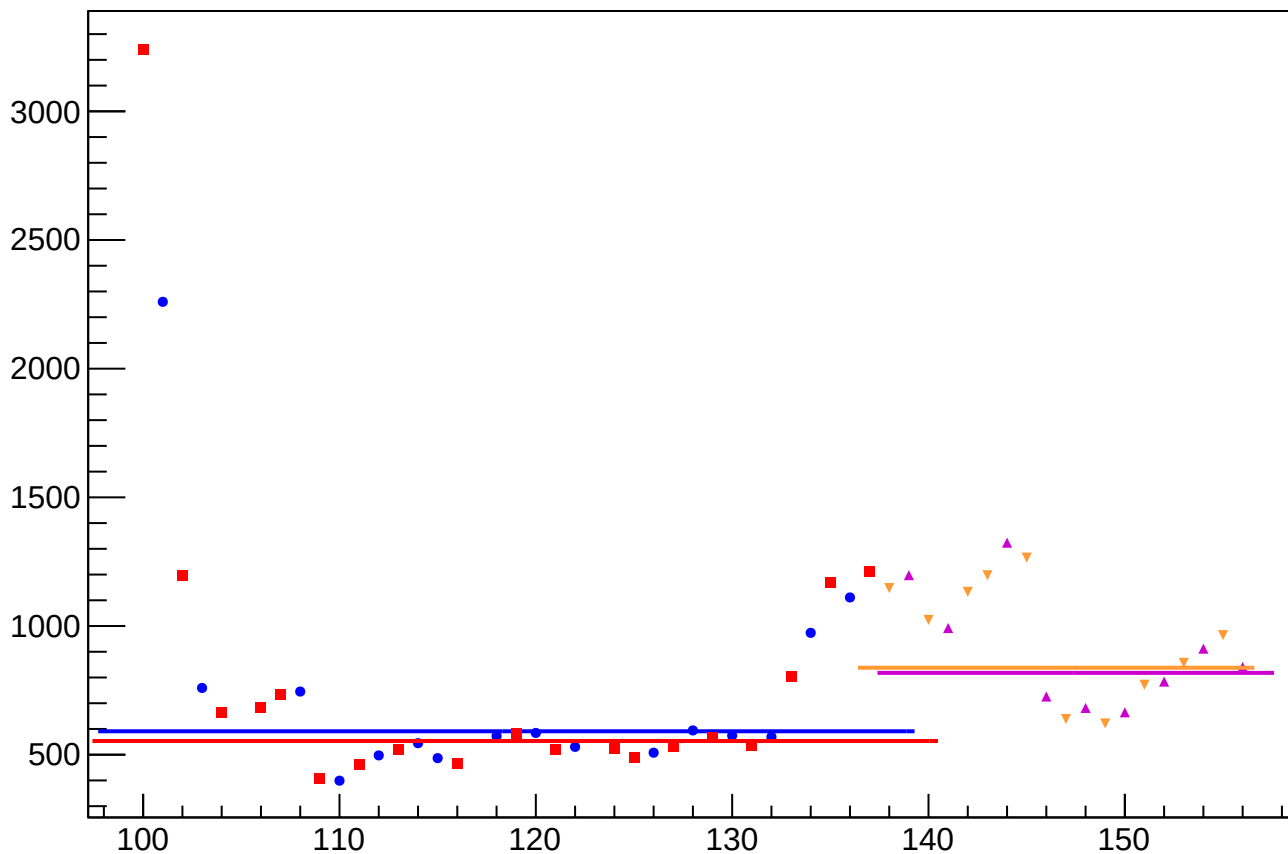
Right: 345.208 ± 158.513 $\chi^2/\text{NDF}: 35.5/34$

In: 47.208 ± 184.300 $\chi^2/\text{NDF}: 26.8/24$

Out: 121.064 ± 177.353 $\chi^2/\text{NDF}: 53.7/28$

All: 85.554 ± 127.793 $\chi^2/\text{NDF}: 80.6/53$

asym_atr1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039+/-0.165 χ^2/NDF : 1566635.0/15

Left Out: 838.046+/-0.220 χ^2/NDF : 946402.3/9

Right Out: 553.233+/-0.153 χ^2/NDF : 1101651.0/18

Left In: 817.970+/-0.212 χ^2/NDF : 693050.8/8

Left: 827.654+/-0.153 χ^2/NDF : 1643767.2/18

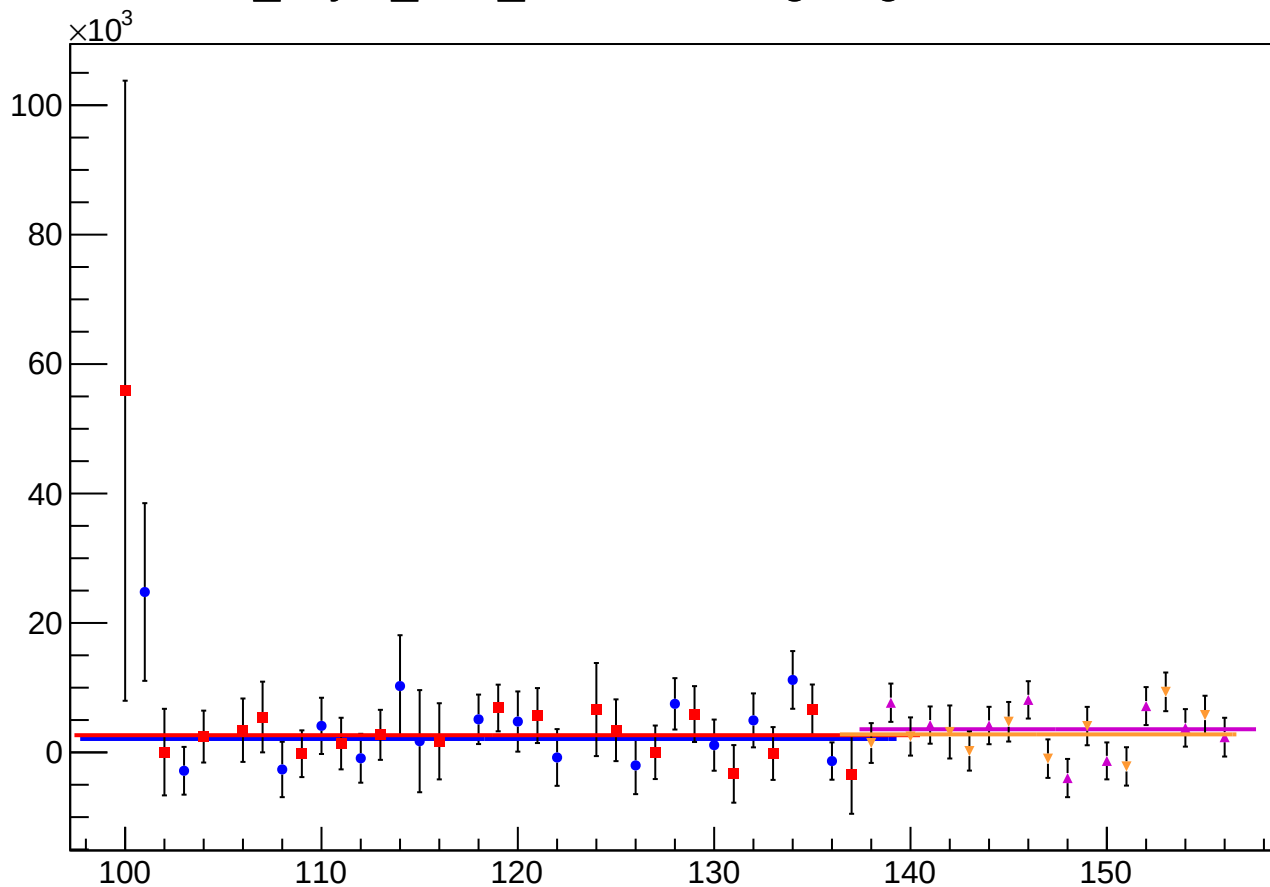
Right: 570.660+/-0.112 χ^2/NDF : 2696555.4/34

In: 676.562+/-0.130 χ^2/NDF : 2971776.8/24

Out: 645.858+/-0.125 χ^2/NDF : 3179948.0/28

All: 660.620+/-0.090 χ^2/NDF : 6180545.0/53

dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766+/-1077.182 χ^2/NDF : 17.9/15

Left Out: 2784.246+/-970.579 χ^2/NDF : 11.8/9

Right Out: 2657.301+/-1049.868 χ^2/NDF : 9.9/18

Left In: 3577.379+/-971.762 χ^2/NDF : 15.6/8

Left: 3180.329+/-686.721 χ^2/NDF : 27.7/18

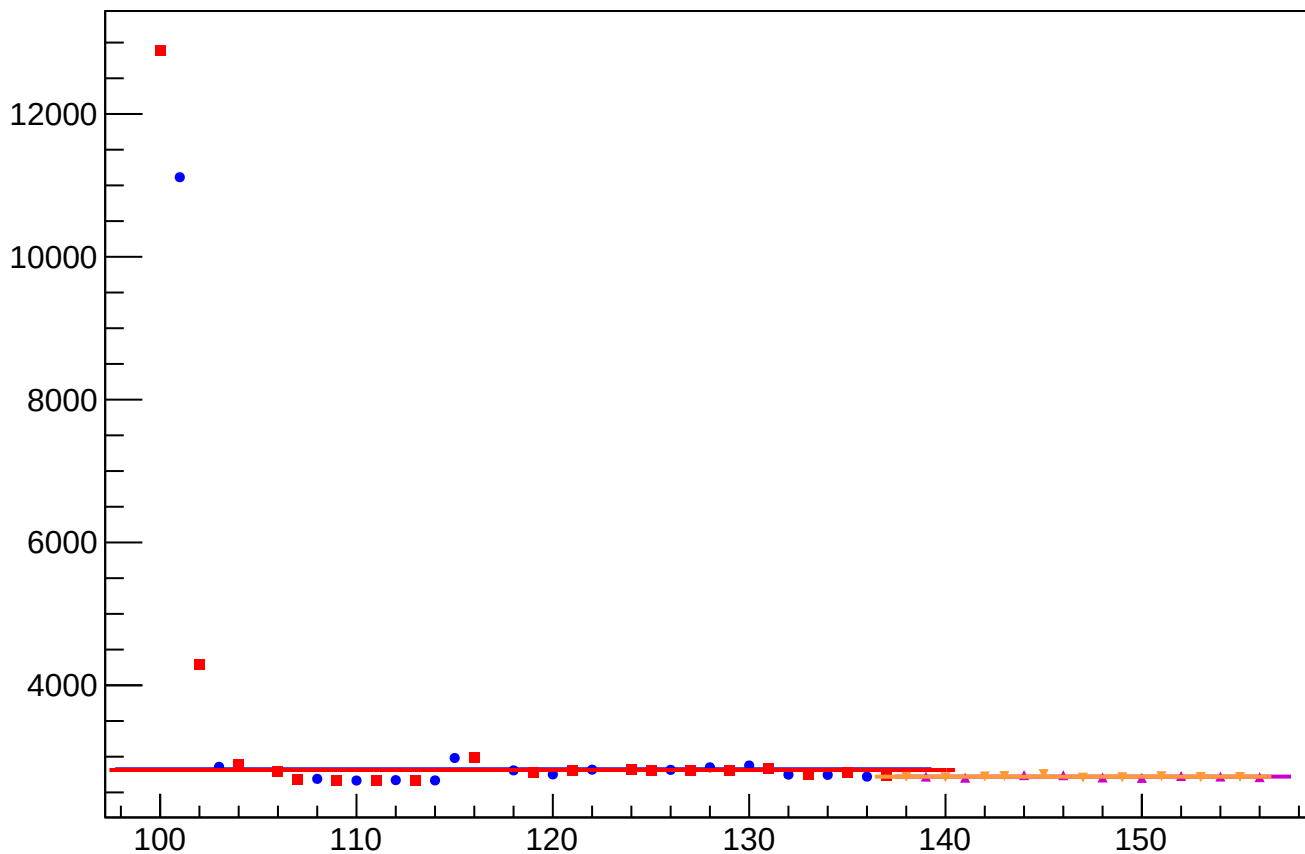
Right: 2373.513+/-751.840 χ^2/NDF : 28.0/34

In: 2903.179+/-721.539 χ^2/NDF : 34.5/24

Out: 2725.748+/-712.687 χ^2/NDF : 21.7/28

All: 2813.368+/-507.047 χ^2/NDF : 56.3/53

dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2720.375+/-0.686 χ^2/NDF : 404.1/9

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.9/18

Left In: 2721.360+/-0.687 χ^2/NDF : 400.7/8

Left: 2720.866+/-0.486 χ^2/NDF : 805.9/18

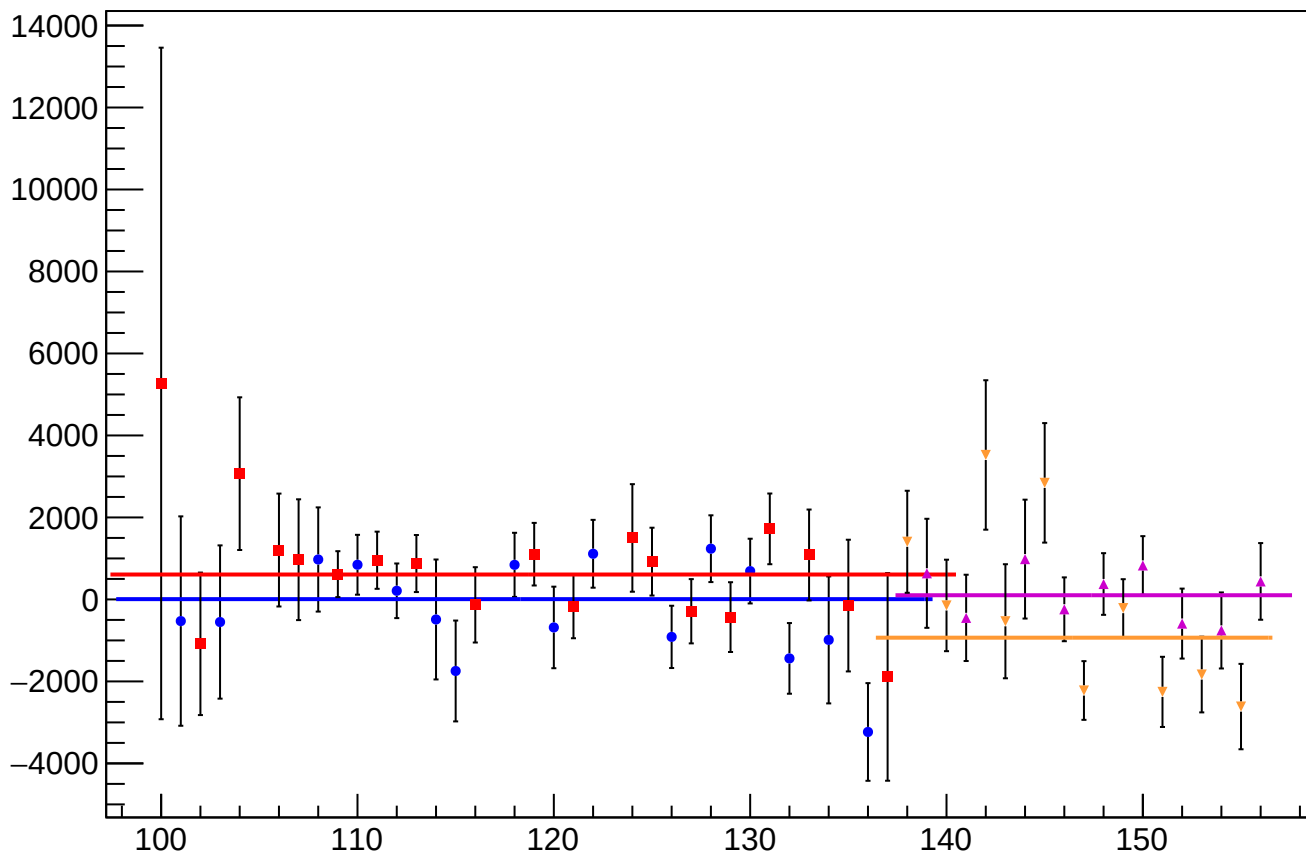
Right: 2818.511+/-0.532 χ^2/NDF : 944509.9/34

In: 2767.165+/-0.510 χ^2/NDF : 754220.7/24

Out: 2763.437+/-0.504 χ^2/NDF : 209459.3/28

All: 2765.278+/-0.359 χ^2/NDF : 963707.1/53

asym_atr1_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.048 $\pm$ 237.455 χ^2 /NDF: 22.8/15

Left Out: -933.303 $\pm$ 313.763 χ^2 /NDF:27.0/9

Right Out: 607.647 $\pm$ 217.093 χ^2 /NDF: 12.2/18

Left In: 102.228 $\pm$ 301.567 χ^2 /NDF:3.8/8

Left: -395.022 $\pm$ 217.424 χ^2 /NDF: 36.5/18

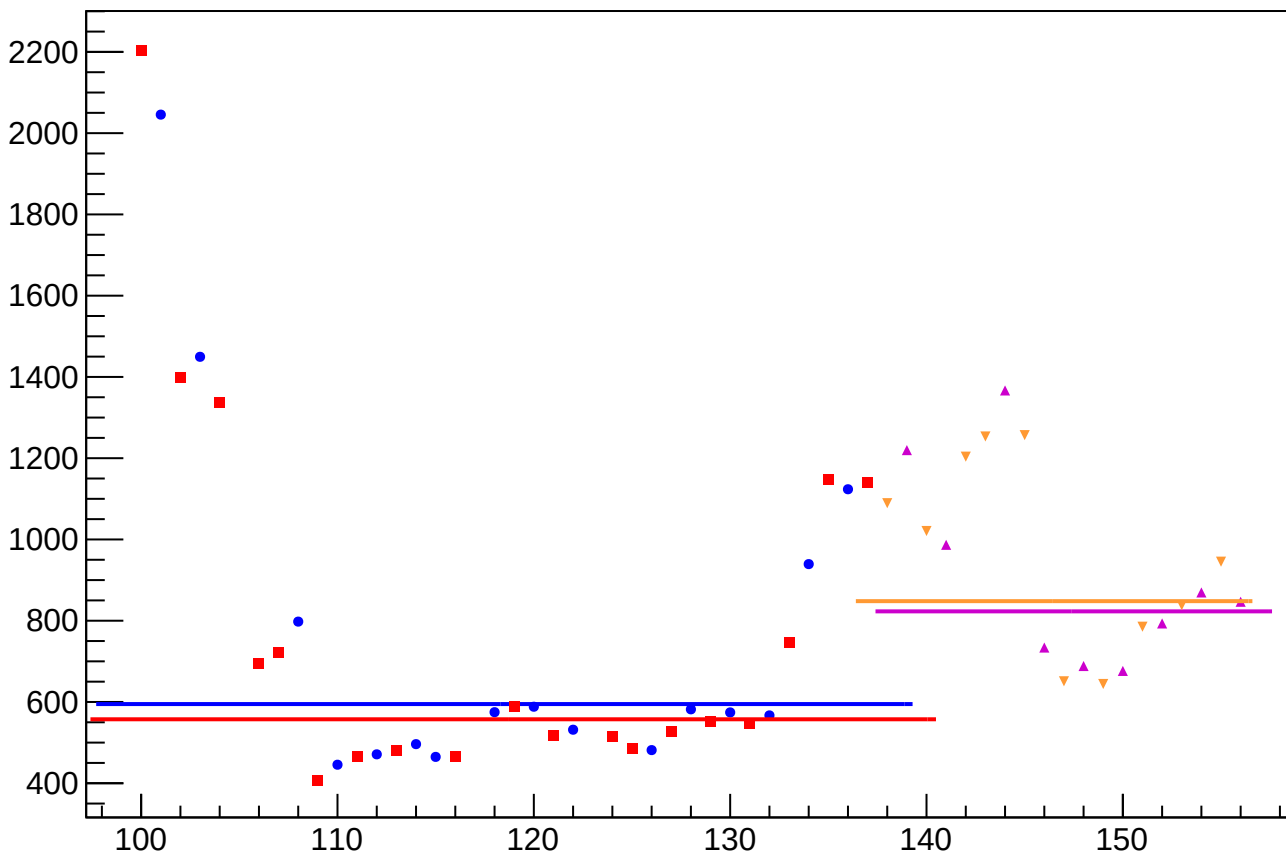
Right: 334.198 $\pm$ 160.224 χ^2 /NDF: 38.5/34

In: 43.475 $\pm$ 186.562 χ^2 /NDF:26.7/24

Out: 108.774 $\pm$ 178.526 χ^2 /NDF:55.5/28

All: 77.561 $\pm$ 128.984 χ^2 /NDF: 82.2/53

asym_atr1_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858+/-0.168 χ^2/NDF : 1852655.3/15

Left Out: 848.154+/-0.222 χ^2/NDF : 873444.5/9

Right Out: 557.397+/-0.154 χ^2/NDF : 1631309.6/18

Left In: 823.014+/-0.213 χ^2/NDF : 690692.7/8

Left: 835.086+/-0.154 χ^2/NDF : 1570811.5/18

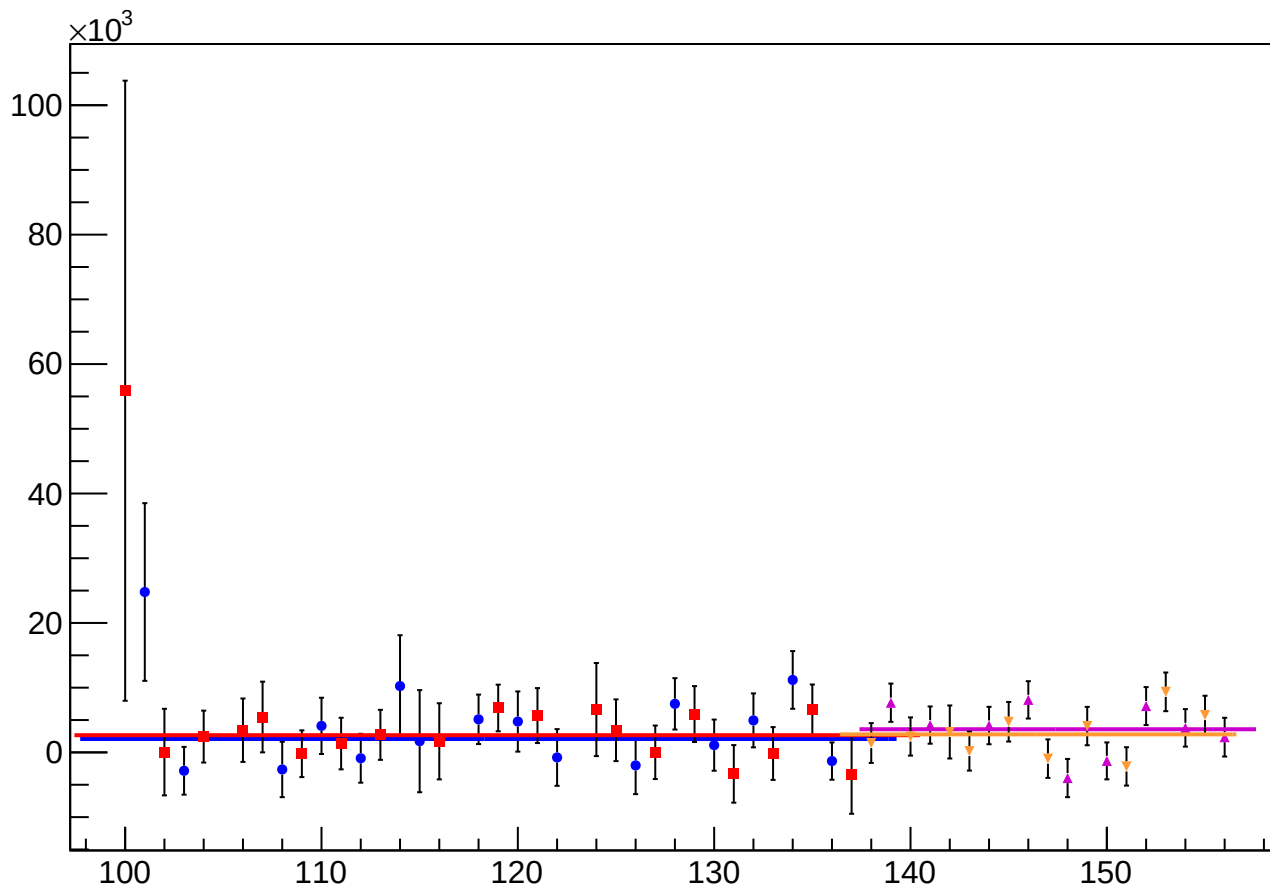
Right: 574.453+/-0.113 χ^2/NDF : 3511078.0/34

In: 682.177+/-0.132 χ^2/NDF : 3250005.9/24

Out: 651.528+/-0.126 χ^2/NDF : 3666197.0/28

All: 666.178+/-0.091 χ^2/NDF : 6944379.7/53

eigen_dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766 $\pm$ 1077.182 χ^2 /NDF: 17.9/15

Left Out: 2784.246 $\pm$ 970.579 χ^2 /NDF:11.8/9

Right Out: 2657.300 $\pm$ 1049.868 χ^2 /NDF: 9.9/18

Left In: 3577.380 $\pm$ 971.762 χ^2 /NDF:15.6/8

Left: 3180.330 $\pm$ 686.721 χ^2 /NDF: 27.7/18

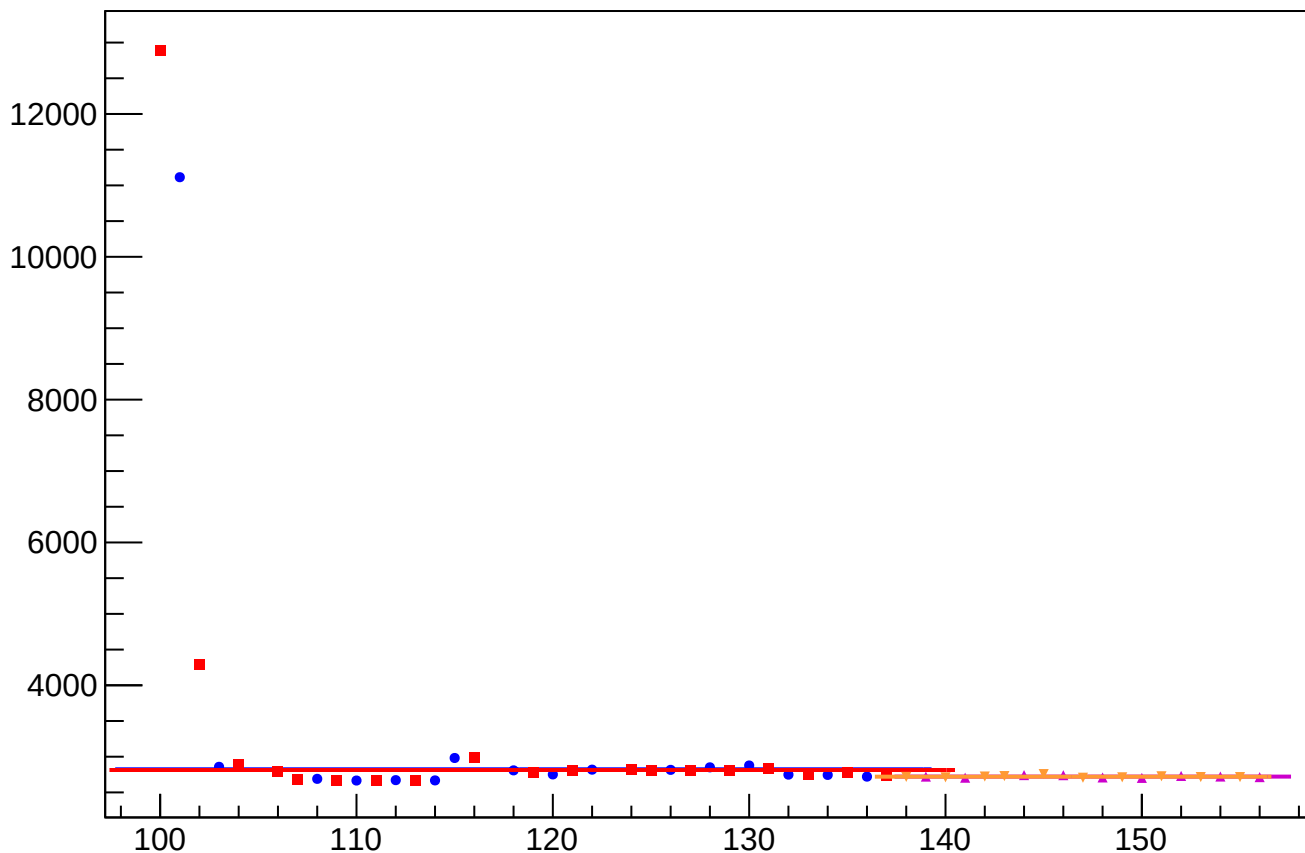
Right: 2373.512 $\pm$ 751.840 χ^2 /NDF: 28.0/34

In: 2903.179 $\pm$ 721.539 χ^2 /NDF:34.5/24

Out: 2725.747 $\pm$ 712.687 χ^2 /NDF:21.7/28

All: 2813.368 $\pm$ 507.047 χ^2 /NDF: 56.3/53

eigen_dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2720.375+/-0.686 χ^2/NDF :404.1/9

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.7/18

Left In: 2721.360+/-0.687 χ^2/NDF :400.7/8

Left: 2720.866+/-0.486 χ^2/NDF : 805.9/18

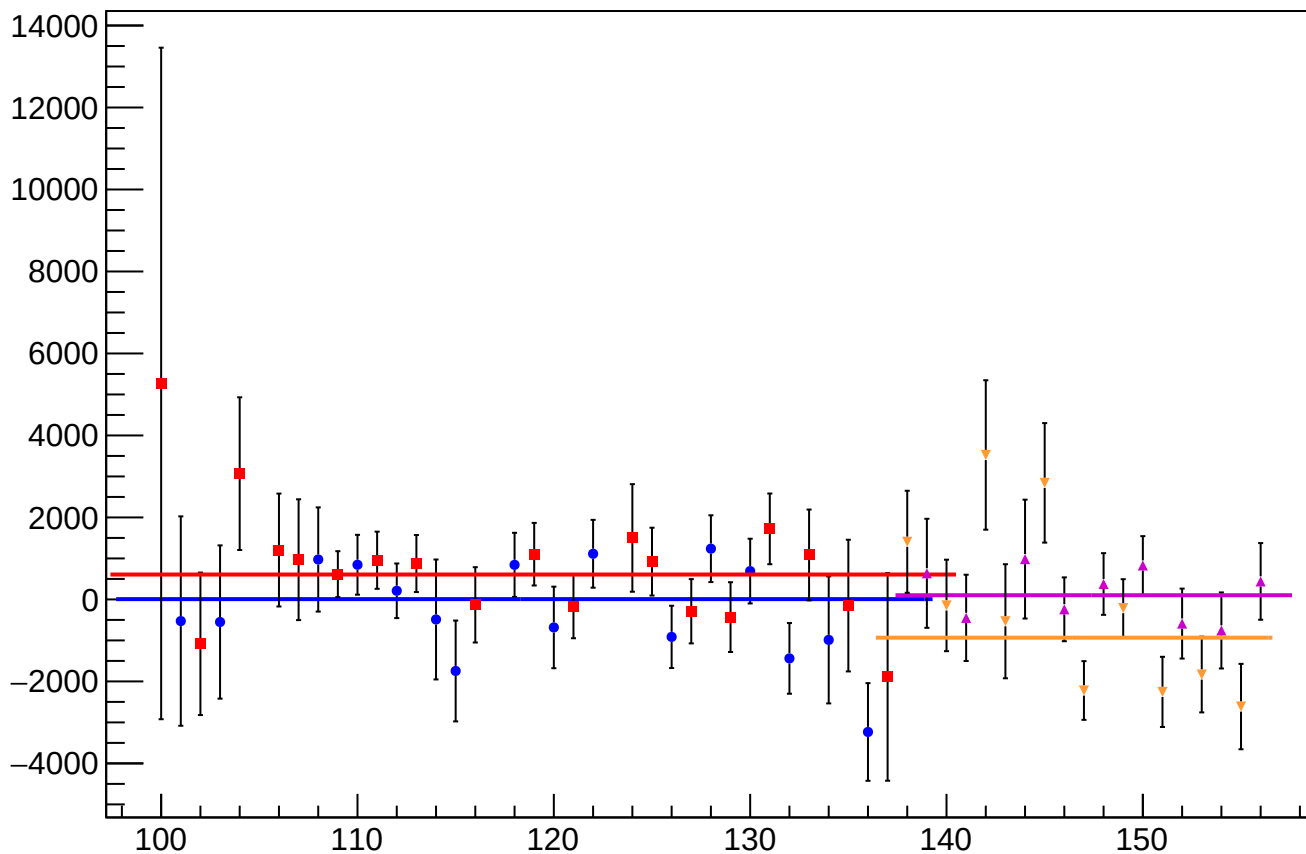
Right: 2818.511+/-0.532 χ^2/NDF : 944509.7/34

In: 2767.165+/-0.510 χ^2/NDF :754220.7/24

Out: 2763.436+/-0.504 χ^2/NDF :209459.1/28

All: 2765.278+/-0.359 χ^2/NDF : 963706.8/53

asym_atr1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.049 ± 237.455 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -933.304 ± 313.763 $\chi^2/\text{NDF}: 27.0/9$

Right Out: 607.647 ± 217.094 $\chi^2/\text{NDF}: 12.2/18$

Left In: 102.229 ± 301.567 $\chi^2/\text{NDF}: 3.8/8$

Left: -395.022 ± 217.424 $\chi^2/\text{NDF}: 36.5/18$

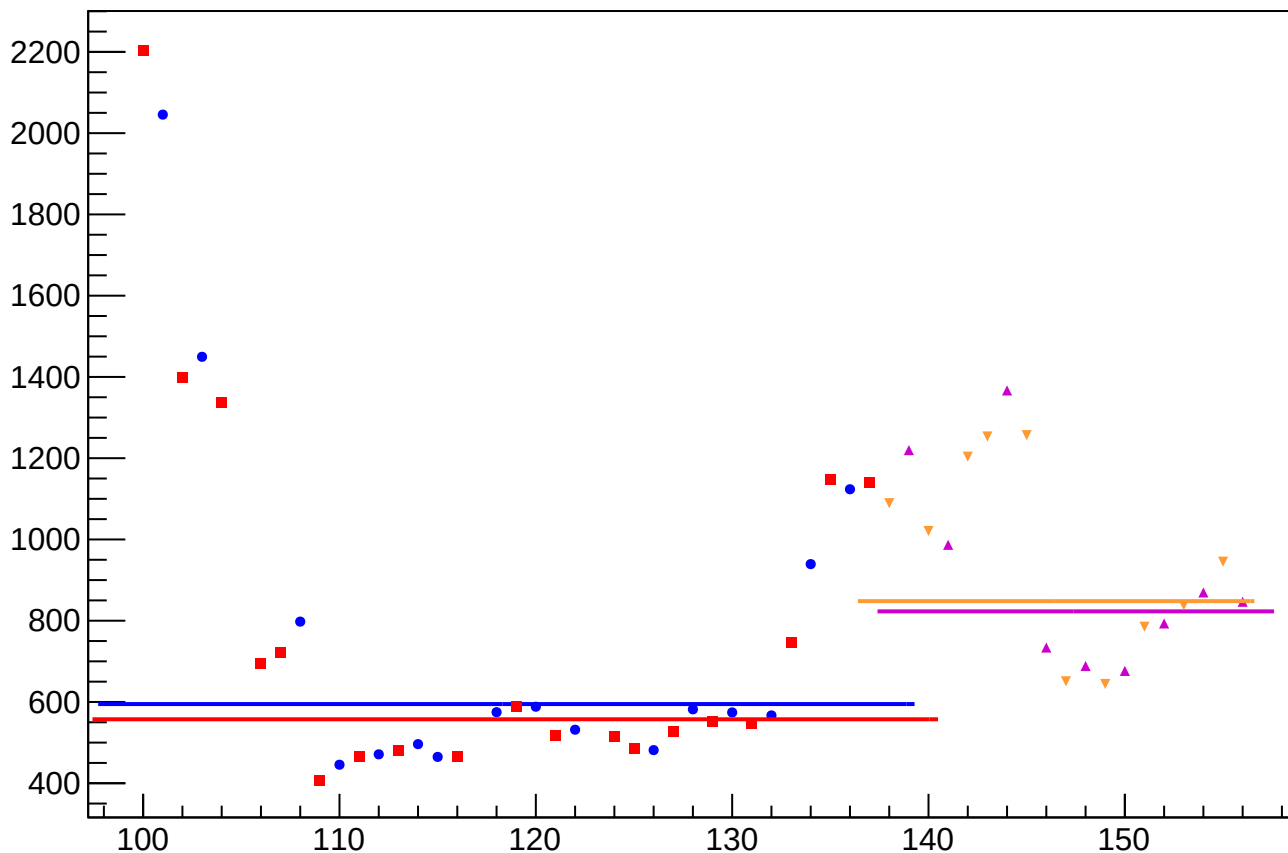
Right: 334.198 ± 160.224 $\chi^2/\text{NDF}: 38.5/34$

In: 43.476 ± 186.562 $\chi^2/\text{NDF}: 26.7/24$

Out: 108.773 ± 178.526 $\chi^2/\text{NDF}: 55.5/28$

All: 77.561 ± 128.985 $\chi^2/\text{NDF}: 82.2/53$

asym_atr1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858+/-0.168 χ^2/NDF : 1852649.9/15

Left Out: 848.154+/-0.222 χ^2/NDF : 873445.1/9

Right Out: 557.397+/-0.154 χ^2/NDF : 1631307.0/18

Left In: 823.014+/-0.213 χ^2/NDF : 690692.6/8

Left: 835.086+/-0.154 χ^2/NDF : 1570812.0/18

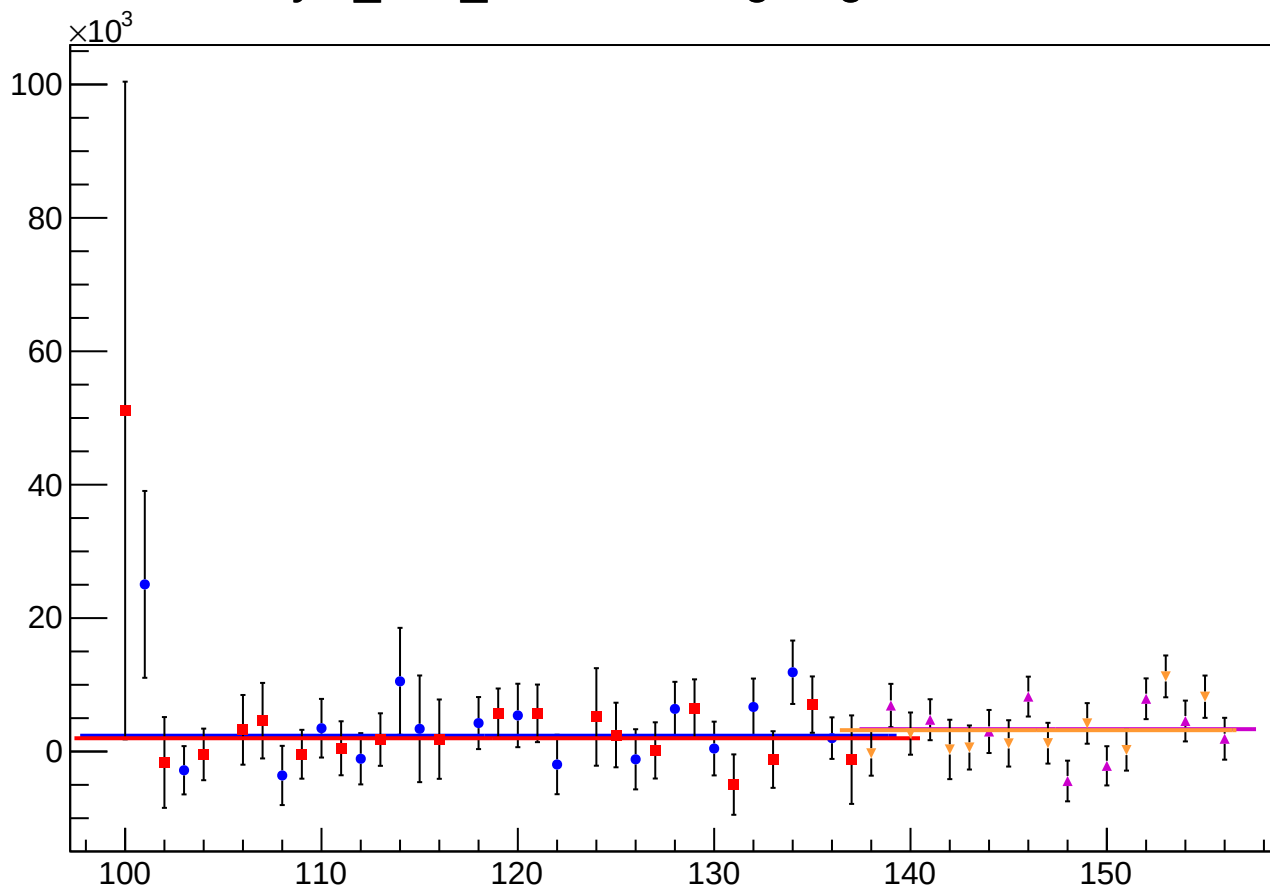
Right: 574.453+/-0.113 χ^2/NDF : 3511070.4/34

In: 682.177+/-0.132 χ^2/NDF : 3249998.9/24

Out: 651.528+/-0.126 χ^2/NDF : 3666195.5/28

All: 666.178+/-0.091 χ^2/NDF : 6944371.6/53

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2367.173+/-1106.203 χ^2/NDF : 16.8/15

Left Out: 3197.373+/-1034.045 χ^2/NDF :13.0/9

Right Out: 1987.039+/-1075.310 χ^2/NDF : 10.3/18

Left In: 3350.376+/-1027.278 χ^2/NDF :16.7/8

Left: 3274.377+/-728.776 χ^2/NDF : 29.7/18

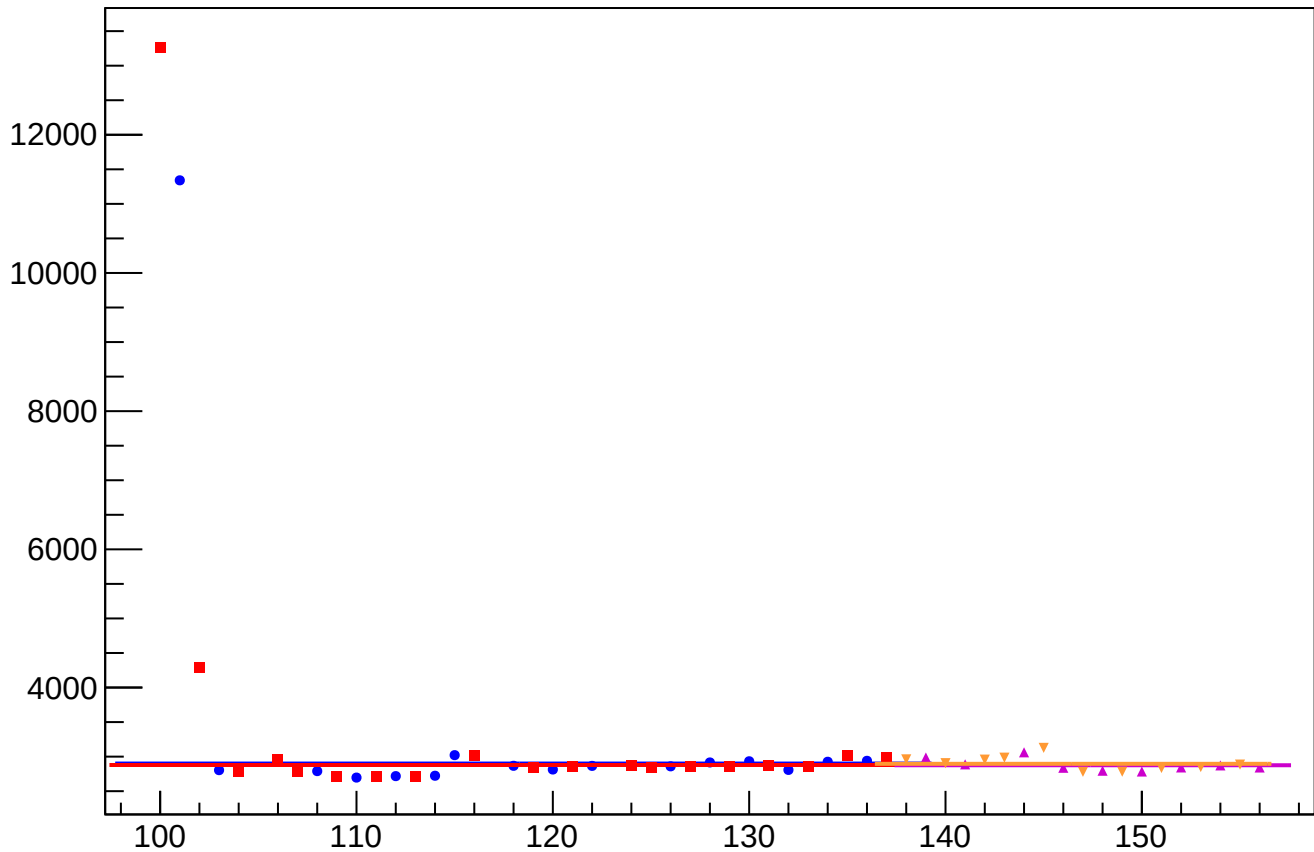
Right: 2171.724+/-771.049 χ^2/NDF : 27.2/34

In: 2895.097+/-752.752 χ^2/NDF :33.9/24

Out: 2615.875+/-745.342 χ^2/NDF :24.0/28

All: 2754.105+/-529.637 χ^2/NDF : 58.0/53

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2899.827+/-0.782 χ^2/NDF : 741818.2/15

Left Out: 2895.941+/-0.731 χ^2/NDF : 18347.4/9

Right Out: 2878.957+/-0.760 χ^2/NDF : 193282.4/18

Left In: 2875.320+/-0.726 χ^2/NDF : 13111.2/8

Left: 2885.563+/-0.515 χ^2/NDF : 31859.0/18

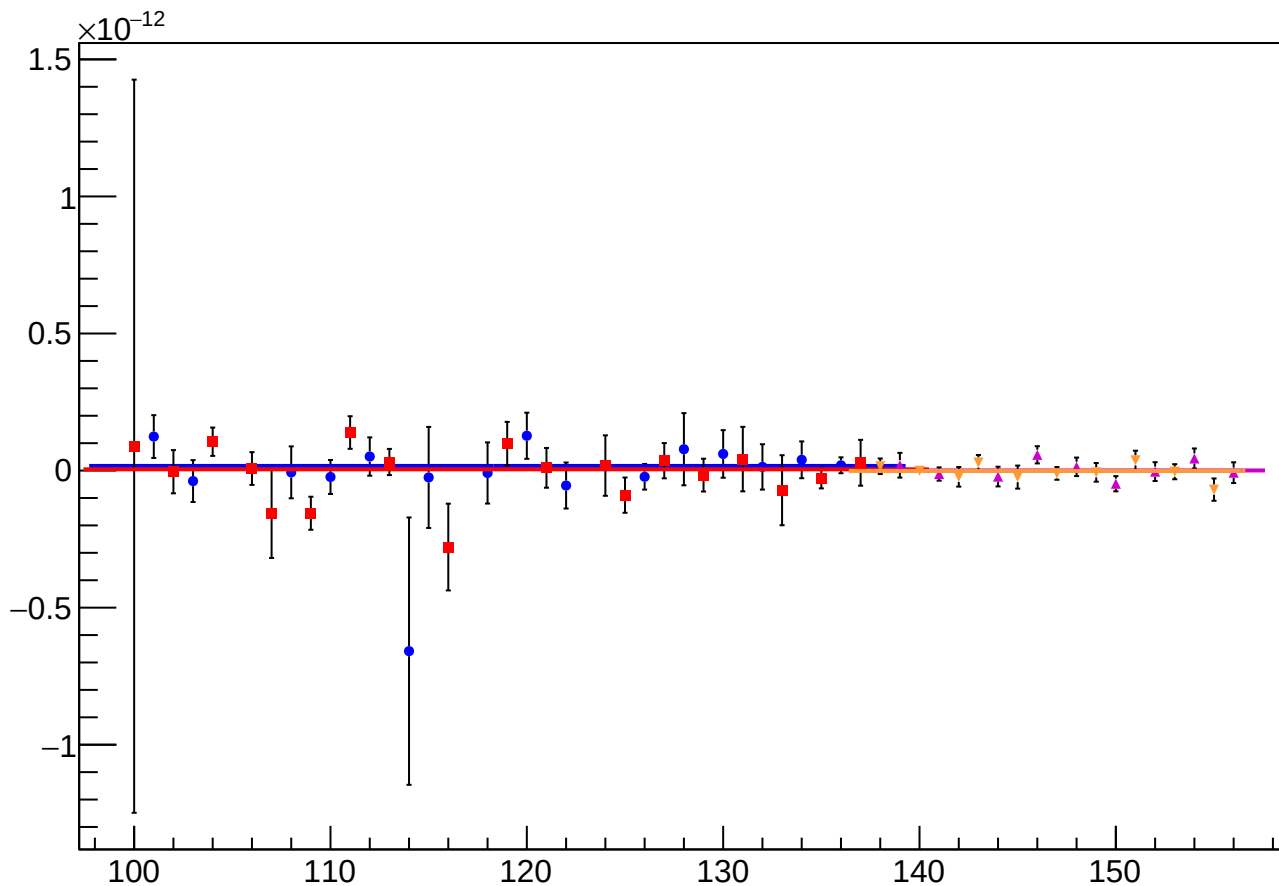
Right: 2889.097+/-0.545 χ^2/NDF : 935466.6/34

In: 2886.668+/-0.532 χ^2/NDF : 755456.5/24

Out: 2887.781+/-0.527 χ^2/NDF : 211889.1/28

All: 2887.230+/-0.375 χ^2/NDF : 967347.8/53

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 : 6.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.9/8

Left: -0.000+/-0.000 χ^2/NDF : 15.3/18

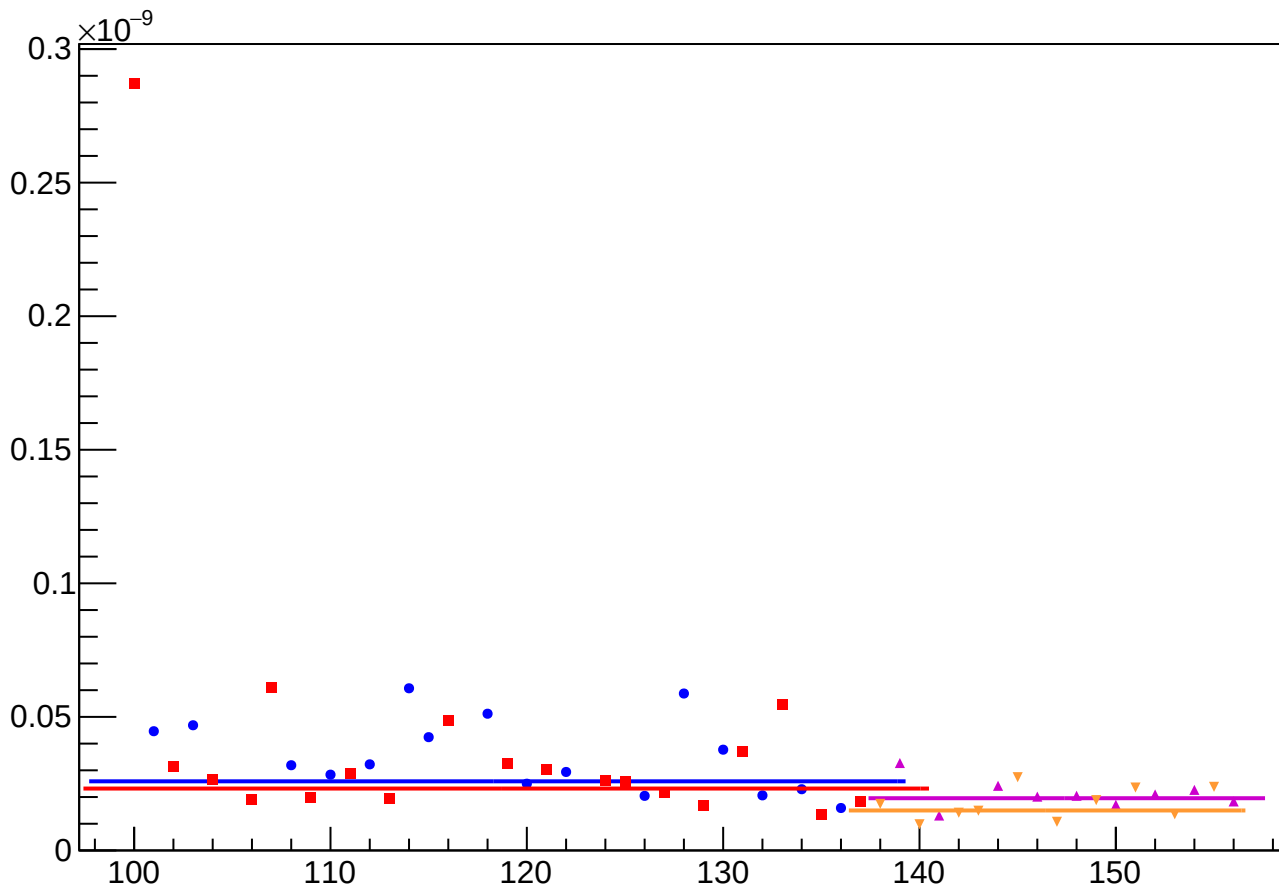
Right: 0.000+/-0.000 χ^2/NDF : 34.9/34

In: 0.000+/-0.000 χ^2/NDF : 18.4/24

Out: 0.000+/-0.000 χ^2/NDF : 32.3/28

All: 0.000+/-0.000 χ^2/NDF : 50.9/53

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 : 660694.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 688853.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 384983.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1256444.3/18

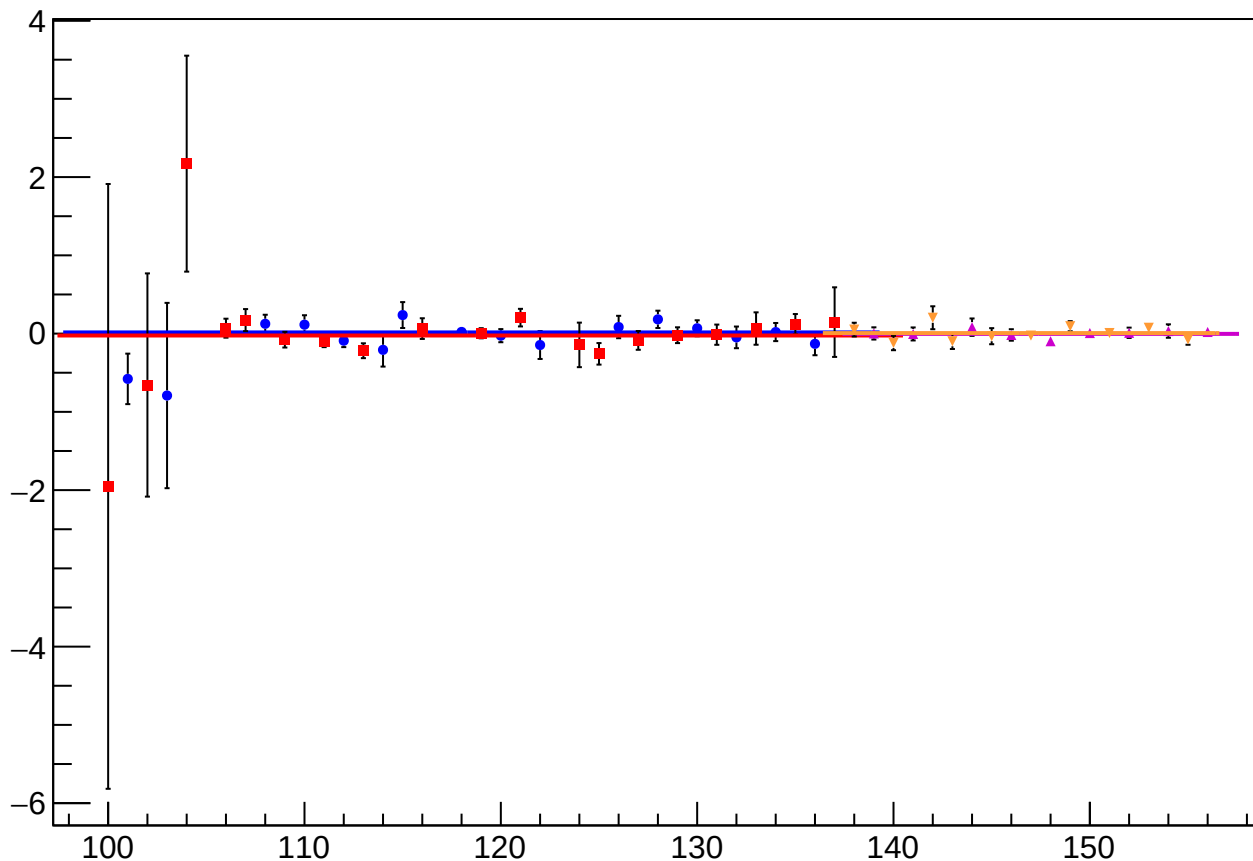
Right: 0.000+/-0.000 χ^2/NDF : 1581998.9/34

In: 0.000+/-0.000 χ^2/NDF : 1449305.6/24

Out: 0.000+/-0.000 χ^2/NDF : 1760812.8/28

All: 0.000+/-0.000 χ^2/NDF : 3478424.3/53

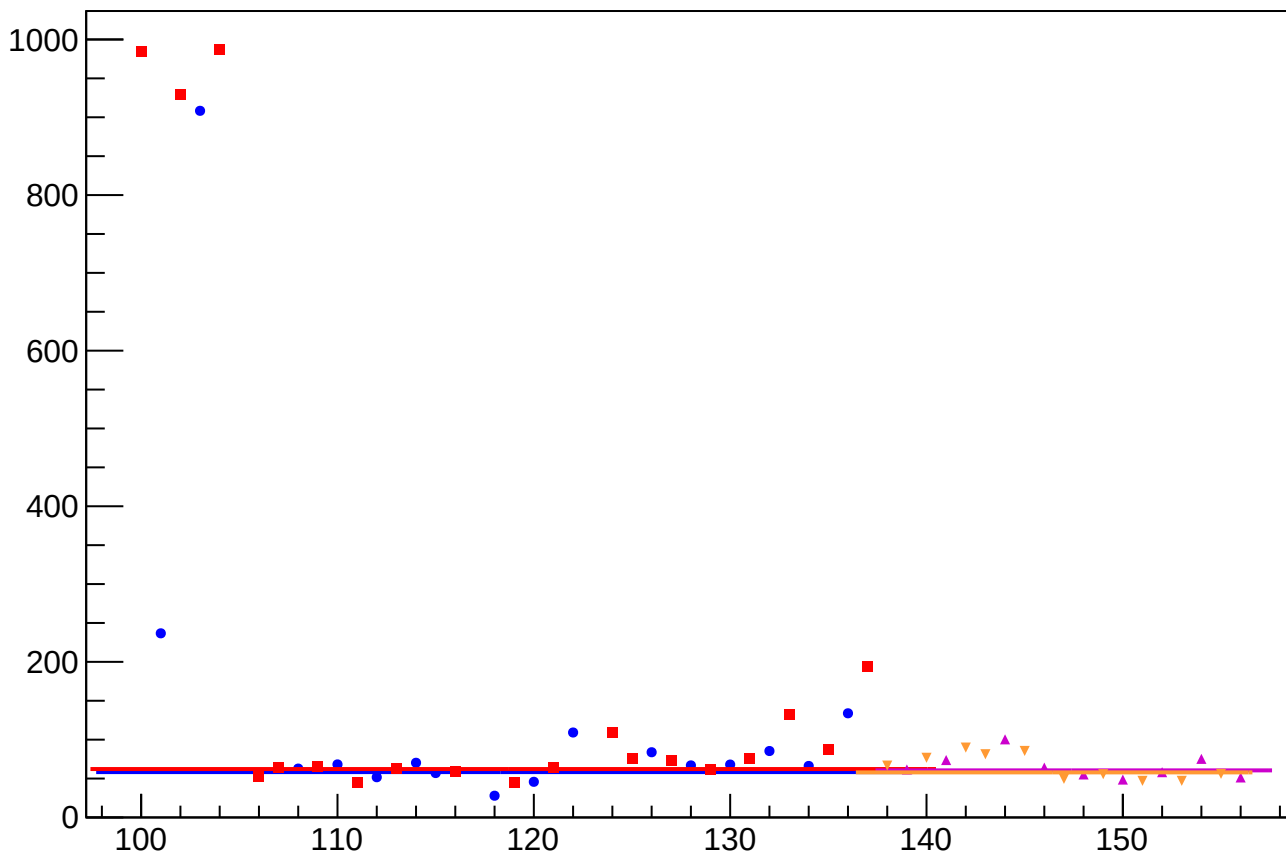
asym_atr1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.028 $\chi^2/\text{NDF}: 15.0/15$
 Left Out: 0.006 ± 0.023 $\chi^2/\text{NDF}: 10.2/9$
 Right Out: -0.024 ± 0.028 $\chi^2/\text{NDF}: 20.8/18$
 Left In: -0.004 ± 0.024 $\chi^2/\text{NDF}: 3.2/8$

Left: 0.002 ± 0.017 $\chi^2/\text{NDF}: 13.5/18$
 Right: -0.004 ± 0.020 $\chi^2/\text{NDF}: 36.8/34$
 In: 0.004 ± 0.018 $\chi^2/\text{NDF}: 18.5/24$
 Out: -0.006 ± 0.018 $\chi^2/\text{NDF}: 31.7/28$
 All: -0.001 ± 0.013 $\chi^2/\text{NDF}: 50.4/53$

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: 57.935 $\pm$ 0.017 χ^2 /NDF: 636648.2/9

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627030.1/18

Left In: 60.515 $\pm$ 0.017 χ^2 /NDF: 521458.8/8

Left: 59.203 $\pm$ 0.012 χ^2 /NDF: 1170101.1/18

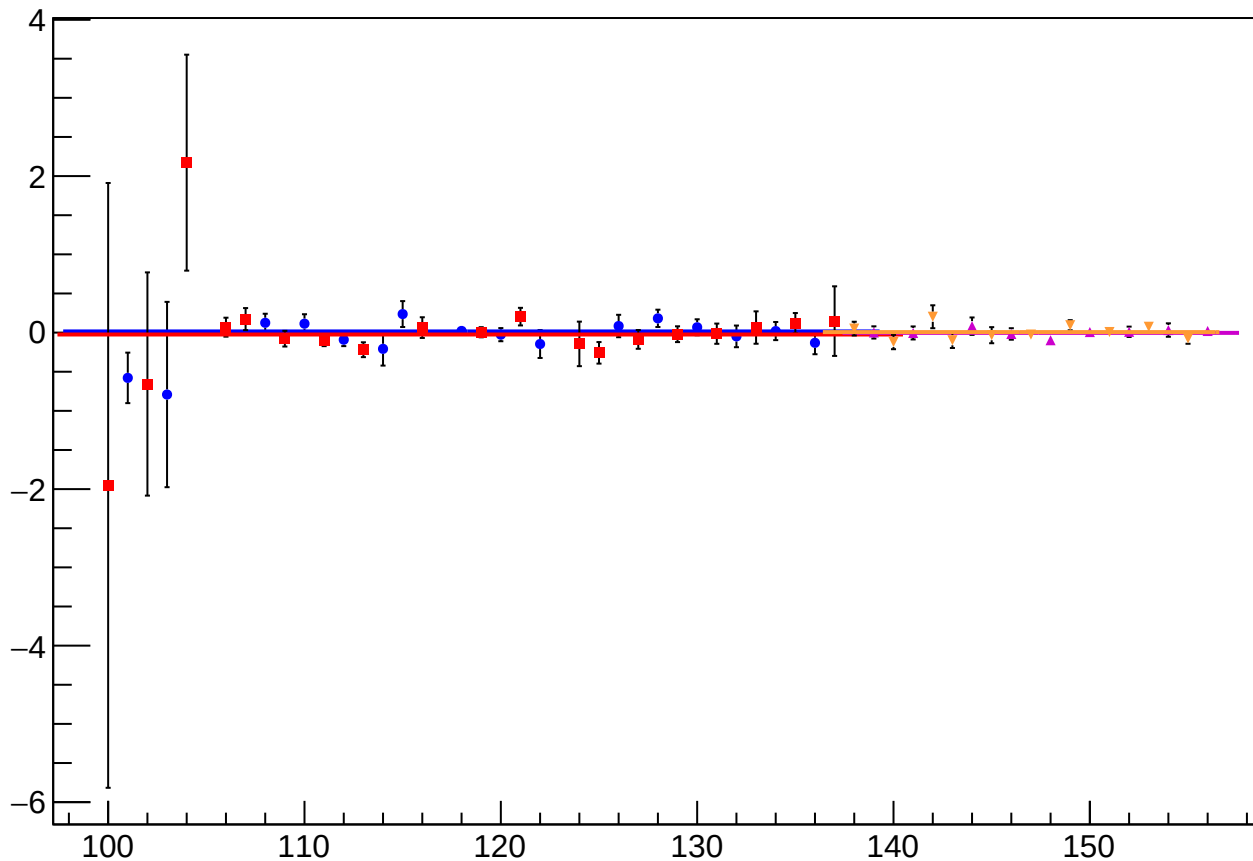
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907159.6/34

In: 59.587 $\pm$ 0.013 χ^2 /NDF: 3789107.9/24

Out: 59.697 $\pm$ 0.013 χ^2 /NDF: 3291462.9/28

All: 59.643 $\pm$ 0.009 χ^2 /NDF: 7080608.3/53

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 $\pm$ 0.023 χ^2 /NDF:10.2/9

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: -0.004 $\pm$ 0.024 χ^2 /NDF:3.2/8

Left: 0.002 $\pm$ 0.017 χ^2 /NDF: 13.5/18

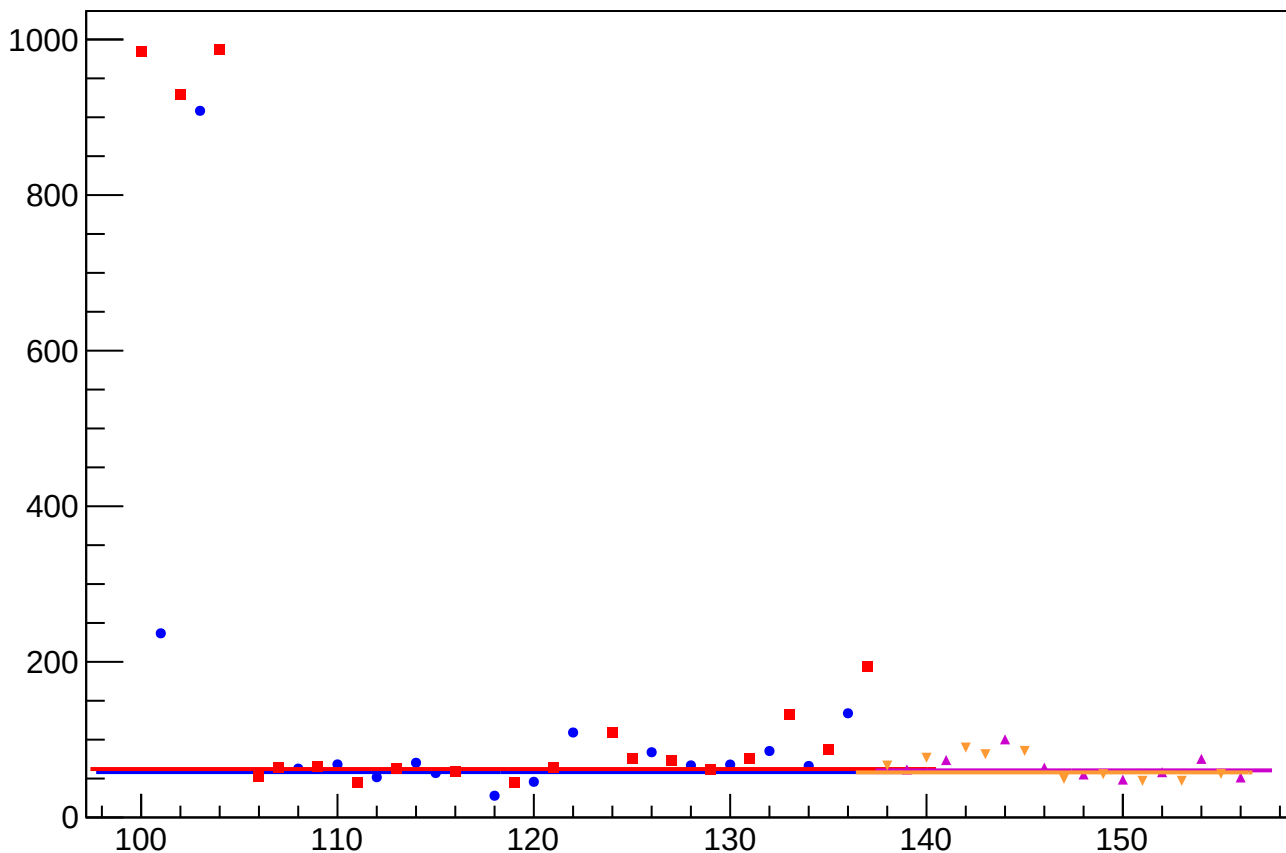
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.004 $\pm$ 0.018 χ^2 /NDF:18.5/24

Out: -0.006 $\pm$ 0.018 χ^2 /NDF:31.7/28

All: -0.001 $\pm$ 0.013 χ^2 /NDF: 50.4/53

asym_atr1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.313+/-0.020 χ^2/NDF : 3260404.3/15

Left Out: 57.935+/-0.017 χ^2/NDF : 636648.2/9

Right Out: 62.235+/-0.020 χ^2/NDF : 2627030.1/18

Left In: 60.515+/-0.017 χ^2/NDF : 521458.8/8

Left: 59.203+/-0.012 χ^2/NDF : 1170101.1/18

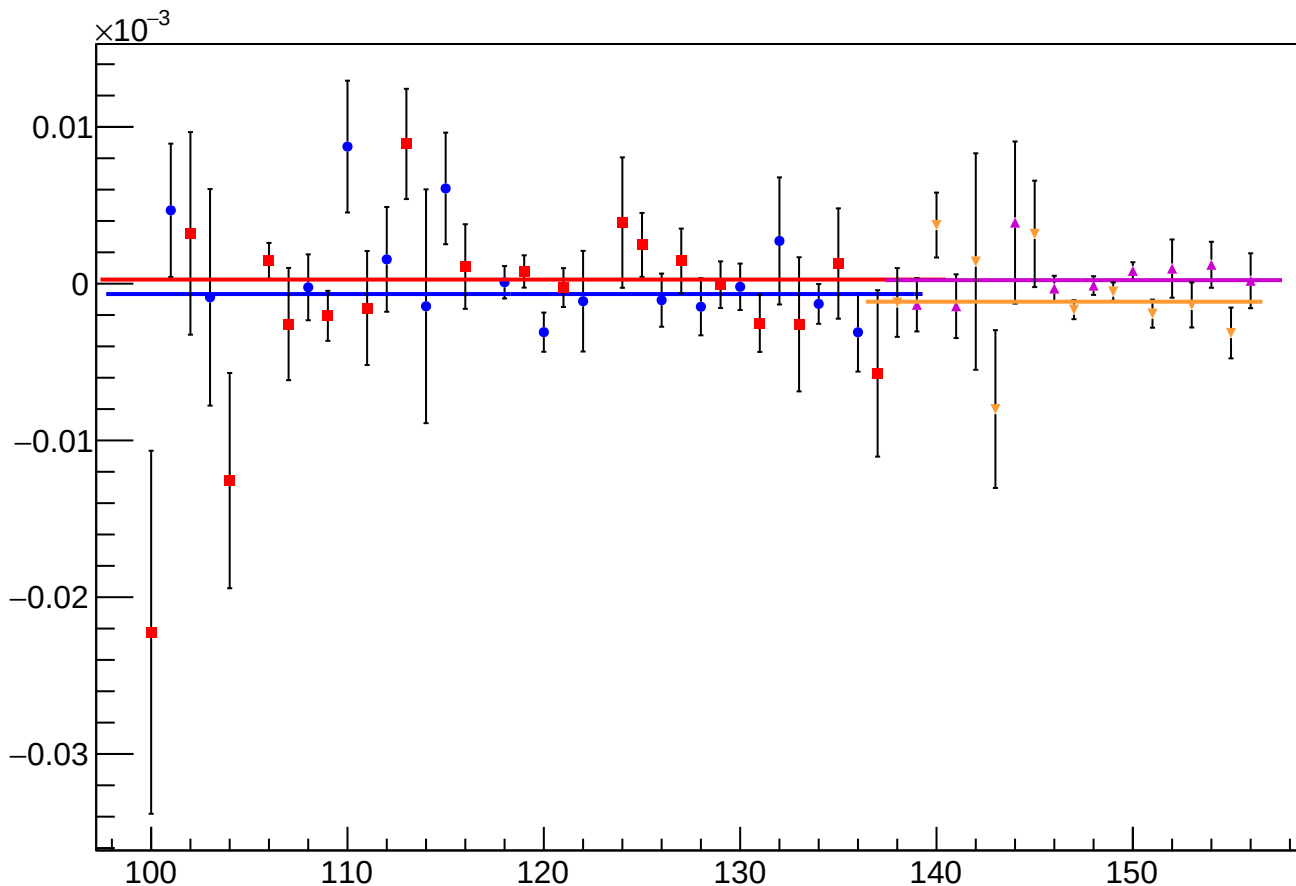
Right: 60.260+/-0.014 χ^2/NDF : 5907159.6/34

In: 59.587+/-0.013 χ^2/NDF : 3789107.9/24

Out: 59.697+/-0.013 χ^2/NDF : 3291462.9/28

All: 59.643+/-0.009 χ^2/NDF : 7080608.3/53

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 : 13.4/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 24.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 4.5/8

Left: -0.000 ± 0.000 χ^2/NDF : 26.3/18

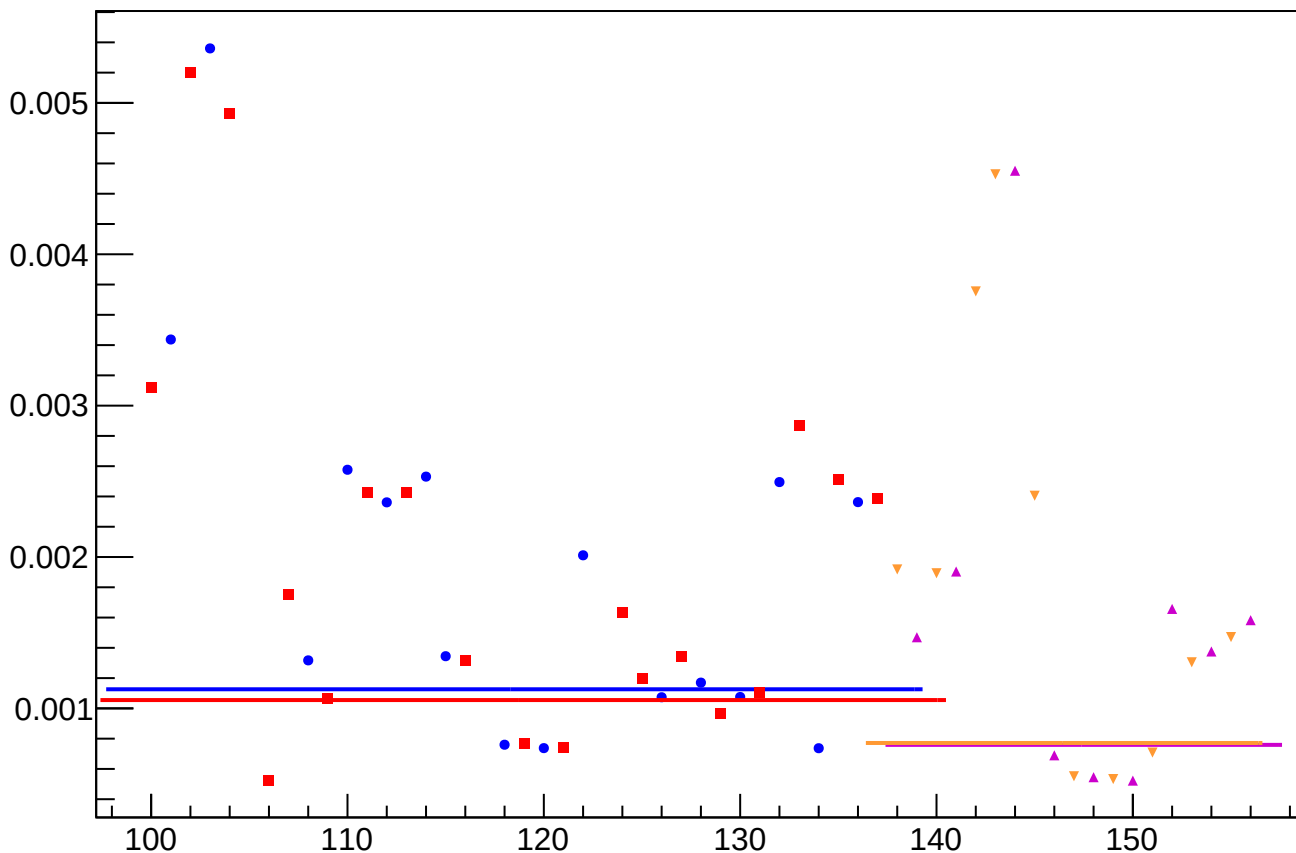
Right: -0.000 ± 0.000 χ^2/NDF : 43.7/34

In: -0.000 ± 0.000 χ^2/NDF : 24.0/24

Out: -0.000 ± 0.000 χ^2/NDF : 43.9/28

All: -0.000 ± 0.000 χ^2/NDF : 70.3/53

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: 0.001+/-0.000 χ^2/NDF :4337303.9/9

Right Out: 0.001+/-0.000 χ^2/NDF : 3848500.2/18

Left In: 0.001+/-0.000 χ^2/NDF :3961031.5/8

Left: 0.001+/-0.000 χ^2/NDF : 8299719.3/18

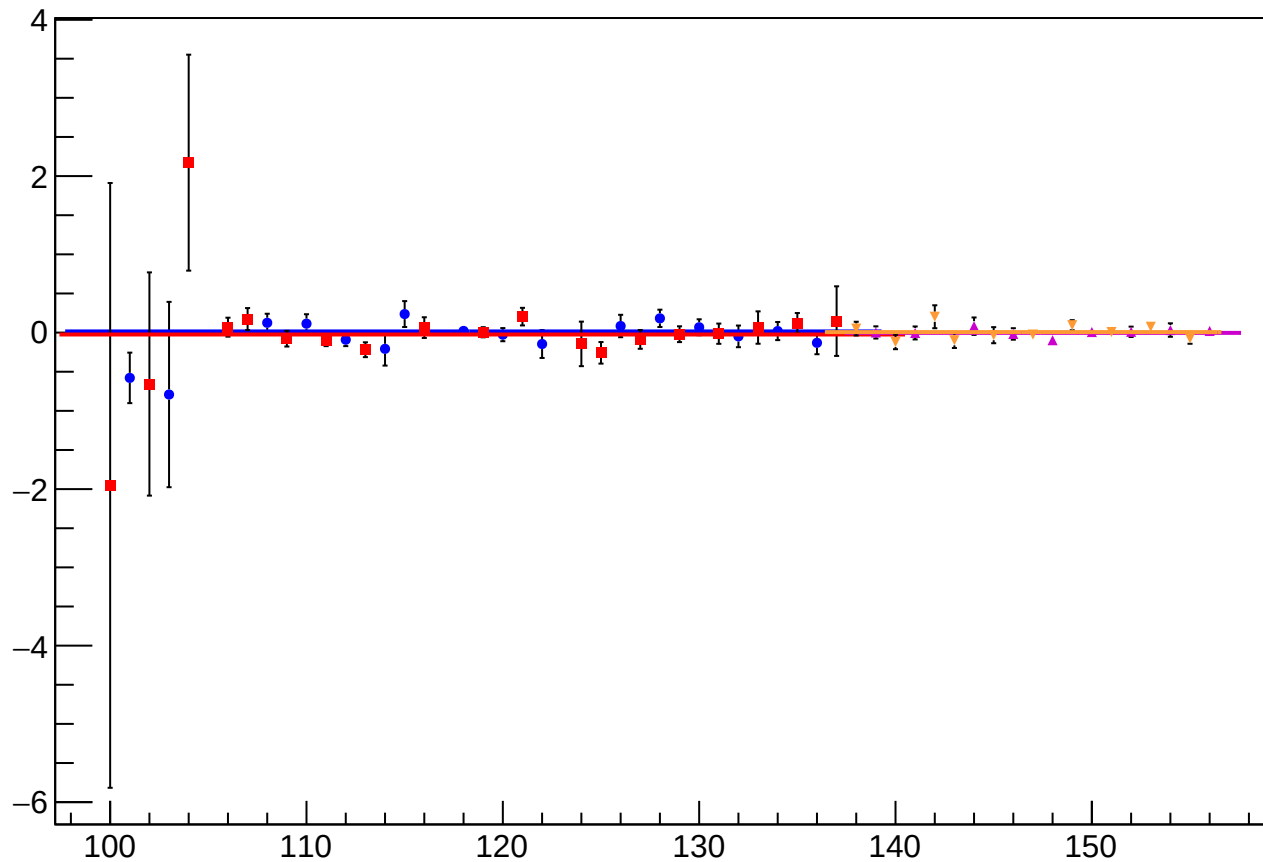
Right: 0.001+/-0.000 χ^2/NDF : 7323820.3/34

In: 0.001+/-0.000 χ^2/NDF :8190529.3/24

Out: 0.001+/-0.000 χ^2/NDF :8664556.1/28

All: 0.001+/-0.000 χ^2/NDF : 16855086.2/53

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 $\pm$ 0.023 χ^2 /NDF:10.2/9

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: -0.004 $\pm$ 0.024 χ^2 /NDF:3.2/8

Left: 0.002 $\pm$ 0.017 χ^2 /NDF: 13.5/18

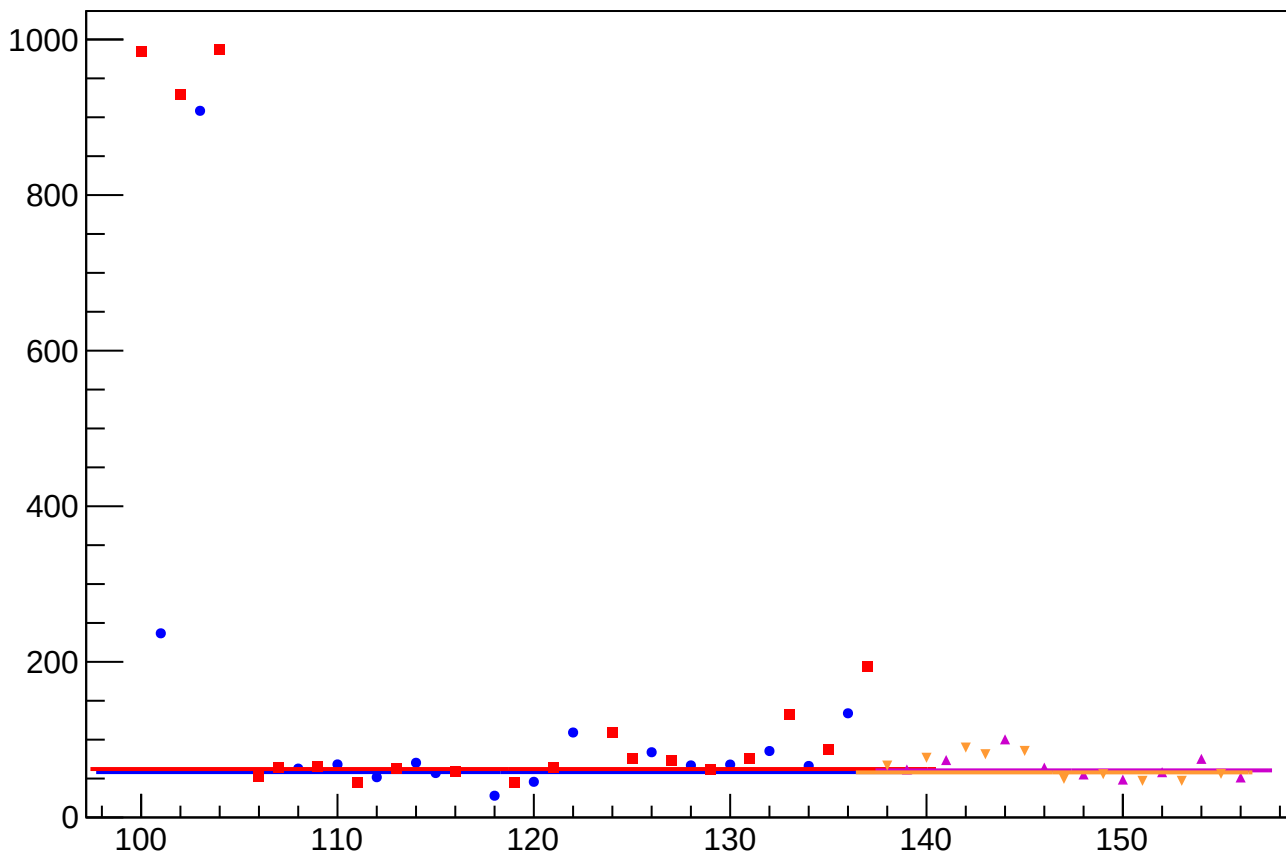
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.004 $\pm$ 0.018 χ^2 /NDF:18.5/24

Out: -0.006 $\pm$ 0.018 χ^2 /NDF:31.7/28

All: -0.001 $\pm$ 0.013 χ^2 /NDF: 50.4/53

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: 57.935 $\pm$ 0.017 χ^2 /NDF: 636640.3/9

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627022.3/18

Left In: 60.515 $\pm$ 0.017 χ^2 /NDF: 521479.1/8

Left: 59.203 $\pm$ 0.012 χ^2 /NDF: 1170117.1/18

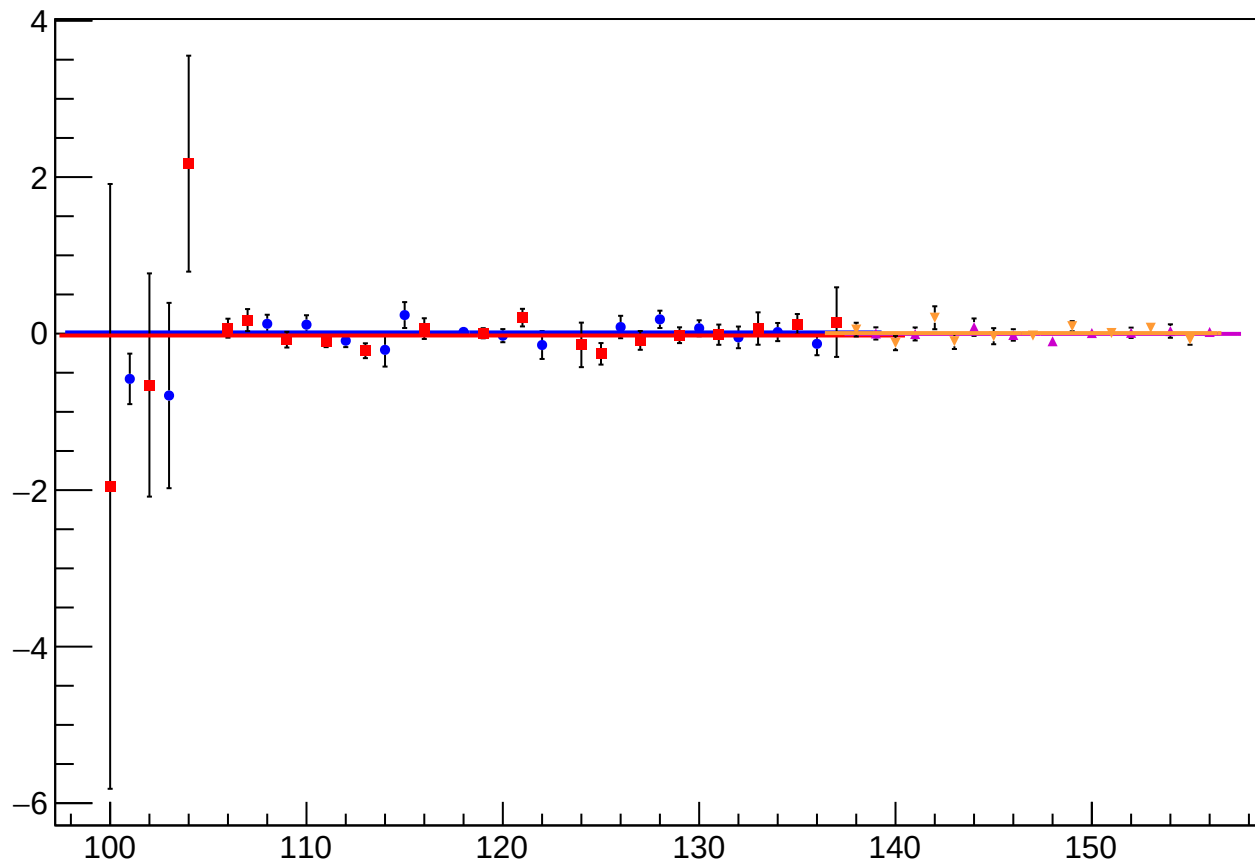
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907238.5/34

In: 59.587 $\pm$ 0.013 χ^2 /NDF: 3789214.4/24

Out: 59.697 $\pm$ 0.013 χ^2 /NDF: 3291448.5/28

All: 59.642 $\pm$ 0.009 χ^2 /NDF: 7080700.5/53

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 $\pm$ 0.023 χ^2 /NDF:10.2/9

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: -0.004 $\pm$ 0.024 χ^2 /NDF:3.2/8

Left: 0.002 $\pm$ 0.017 χ^2 /NDF: 13.5/18

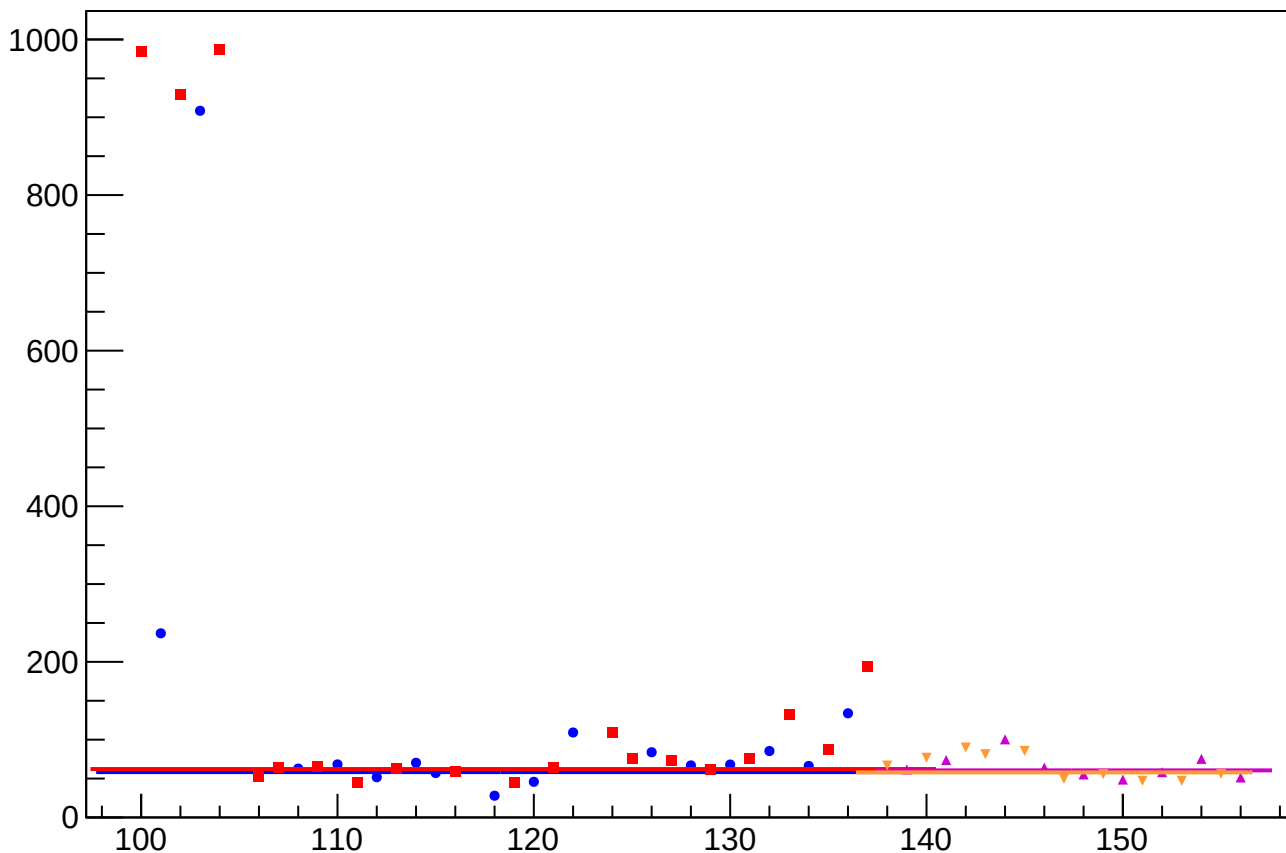
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.004 $\pm$ 0.018 χ^2 /NDF:18.5/24

Out: -0.006 $\pm$ 0.018 χ^2 /NDF:31.7/28

All: -0.001 $\pm$ 0.013 χ^2 /NDF: 50.4/53

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.312+/-0.020 χ^2/NDF : 3260484.2/15

Left Out: 57.935+/-0.017 χ^2/NDF : 636640.3/9

Right Out: 62.235+/-0.020 χ^2/NDF : 2627022.3/18

Left In: 60.515+/-0.017 χ^2/NDF : 521479.1/8

Left: 59.203+/-0.012 χ^2/NDF : 1170117.1/18

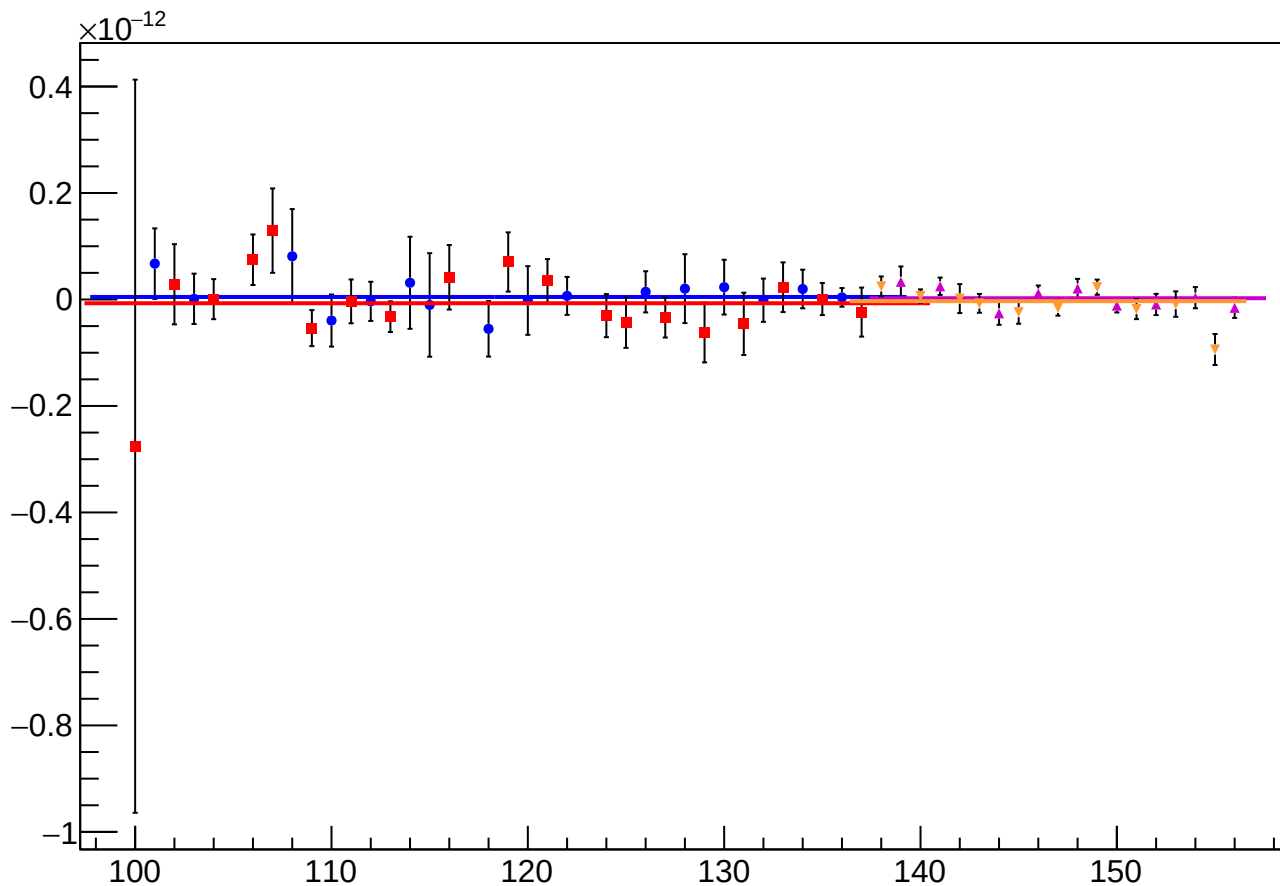
Right: 60.260+/-0.014 χ^2/NDF : 5907238.5/34

In: 59.587+/-0.013 χ^2/NDF : 3789214.4/24

Out: 59.697+/-0.013 χ^2/NDF : 3291448.5/28

All: 59.642+/-0.009 χ^2/NDF : 7080700.5/53

asym_atr1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 18.3/9

Right Out: -0.000+/-0.000 χ^2/NDF : 16.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.5/8

Left: -0.000+/-0.000 χ^2/NDF : 27.3/18

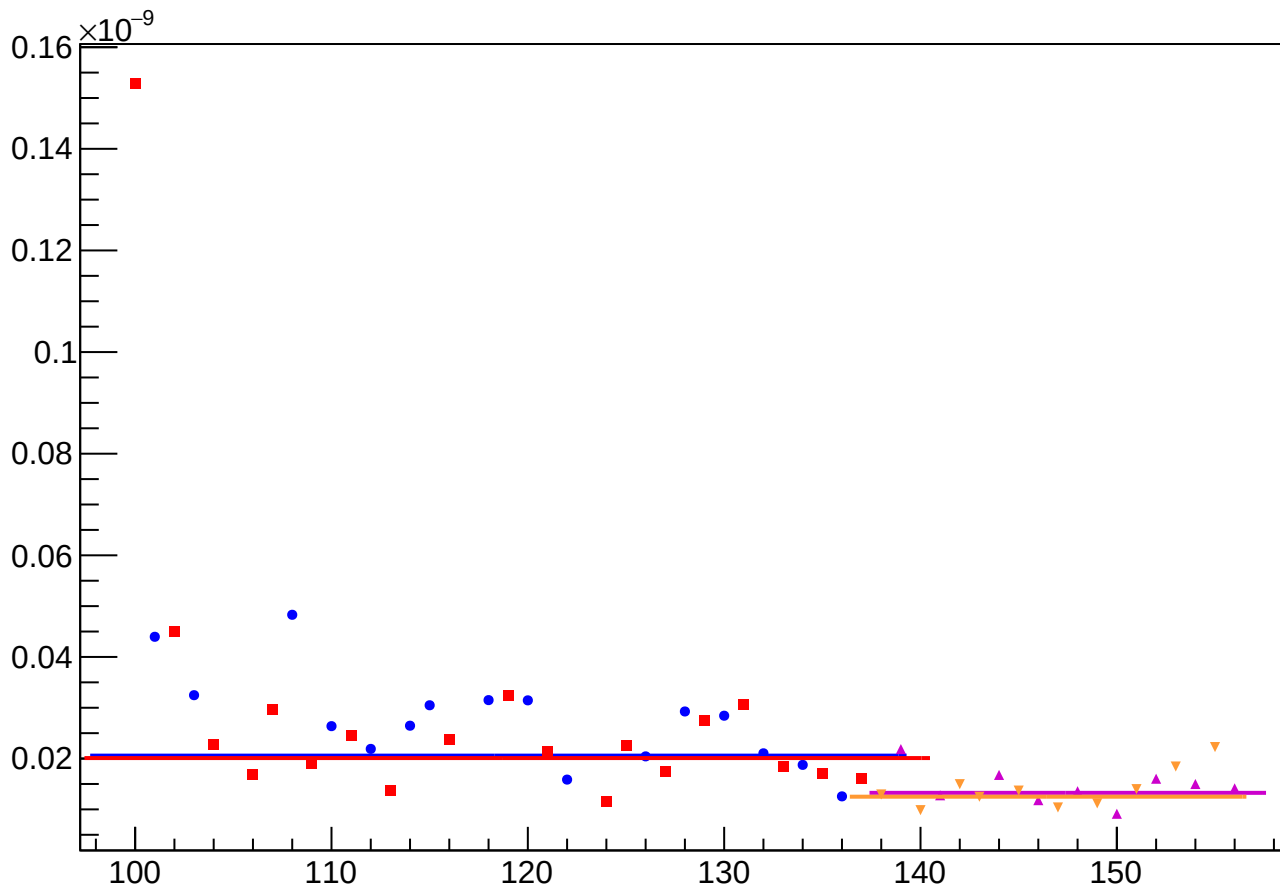
Right: -0.000+/-0.000 χ^2/NDF : 21.2/34

In: 0.000+/-0.000 χ^2/NDF : 13.0/24

Out: -0.000+/-0.000 χ^2/NDF : 34.5/28

All: -0.000+/-0.000 χ^2/NDF : 48.5/53

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 : 531779.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 812191.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 511722.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1060568.9/18

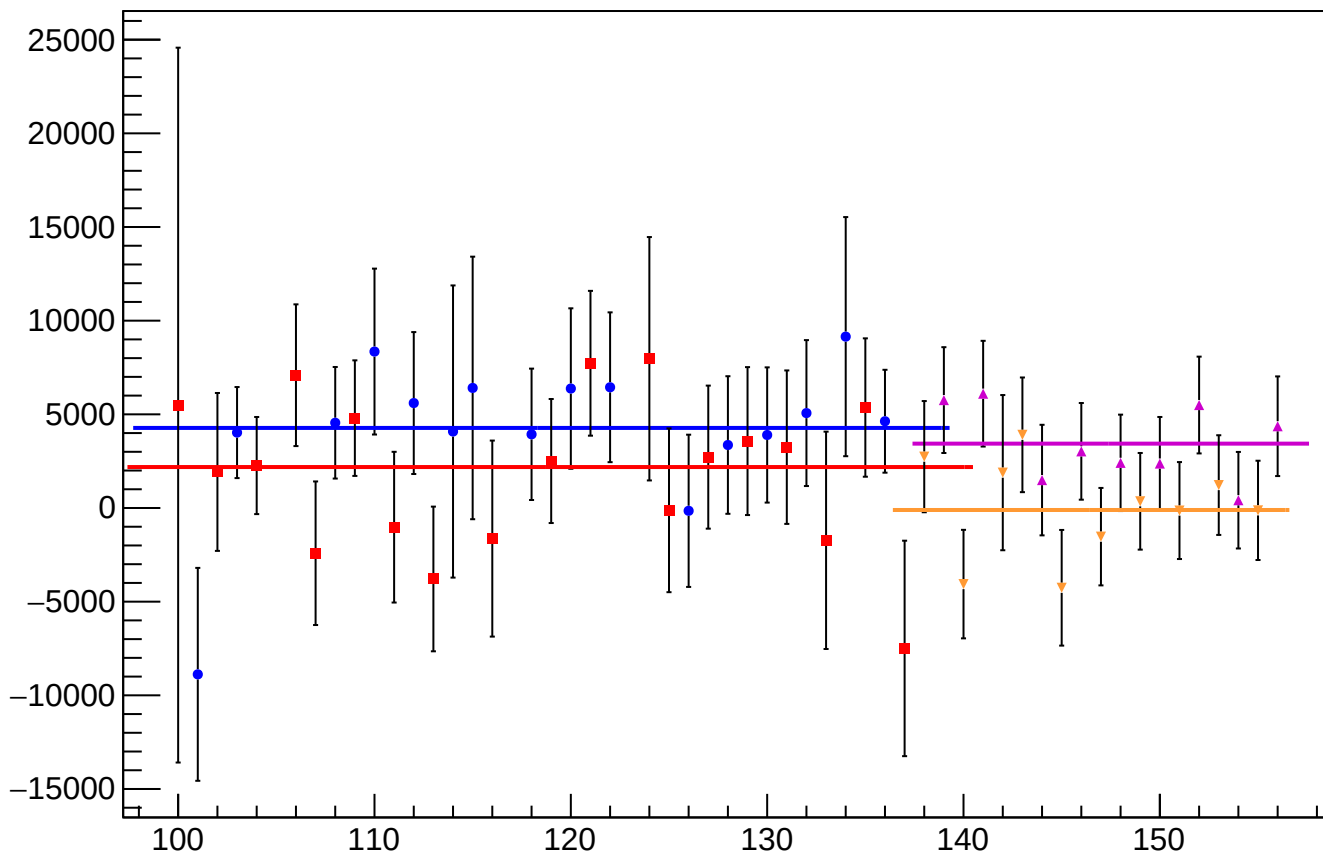
Right: 0.000+/-0.000 χ^2/NDF : 2134051.1/34

In: 0.000+/-0.000 χ^2/NDF : 2596310.4/24

Out: 0.000+/-0.000 χ^2/NDF : 2203236.2/28

All: 0.000+/-0.000 χ^2/NDF : 4823451.3/53

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4274.393 $\pm$ 951.956 χ^2 /NDF: 8.9/15

Left Out: -106.265 $\pm$ 900.308 χ^2 /NDF: 7.1/9

Right Out: 2186.264 $\pm$ 922.104 χ^2 /NDF: 14.8/18

Left In: 3435.549 $\pm$ 887.170 χ^2 /NDF: 4.5/8

Left: 1690.674 $\pm$ 631.918 χ^2 /NDF: 19.5/18

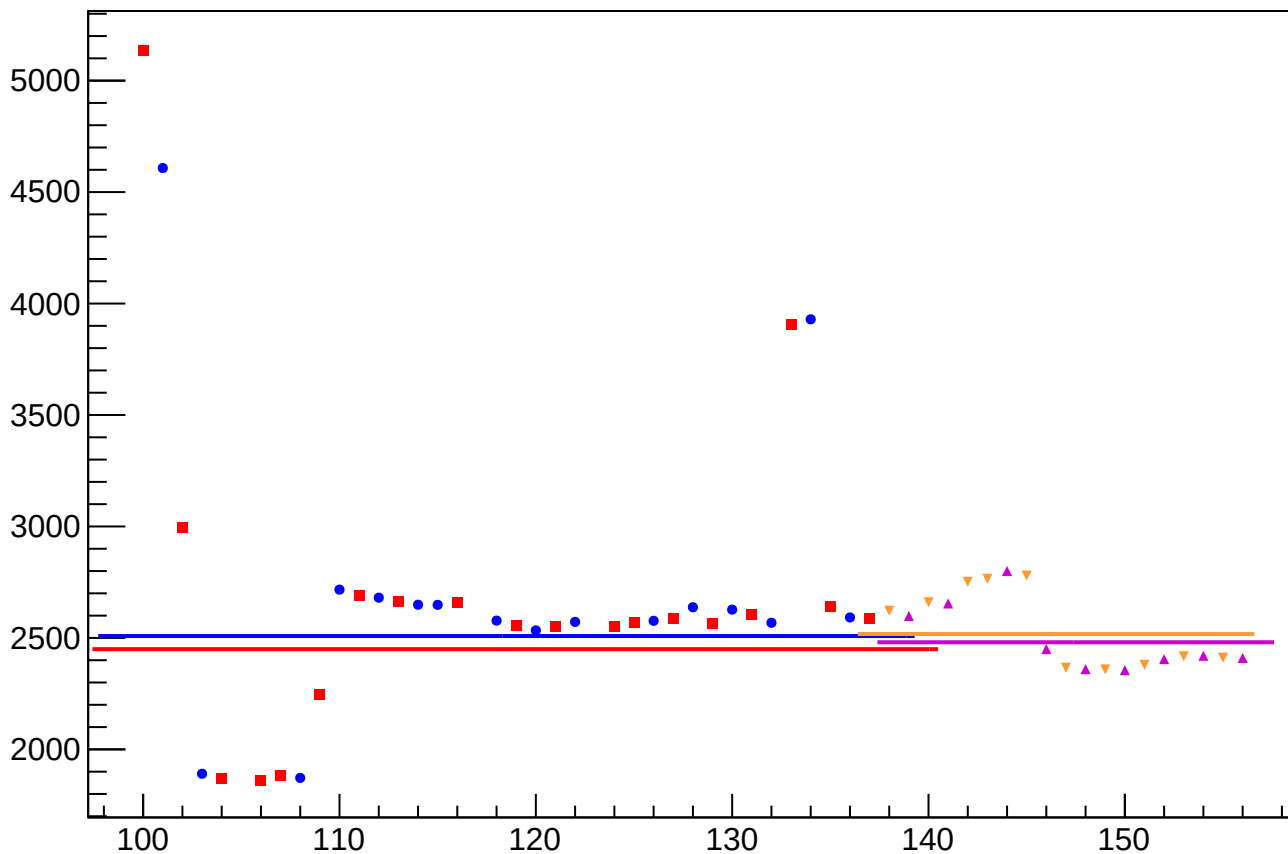
Right: 3197.075 $\pm$ 662.328 χ^2 /NDF: 26.2/34

In: 3825.458 $\pm$ 649.020 χ^2 /NDF: 13.8/24

Out: 1012.585 $\pm$ 644.182 χ^2 /NDF: 25.1/28

All: 2408.499 $\pm$ 457.206 χ^2 /NDF: 48.4/53

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.466 $\pm$ 0.673 χ^2 /NDF: 611589.6/15

Left Out: 2517.692 $\pm$ 0.637 χ^2 /NDF: 67320.1/9

Right Out: 2449.623 $\pm$ 0.652 χ^2 /NDF: 436901.0/18

Left In: 2480.503 $\pm$ 0.627 χ^2 /NDF: 48513.5/8

Left: 2498.824 $\pm$ 0.447 χ^2 /NDF: 117565.0/18

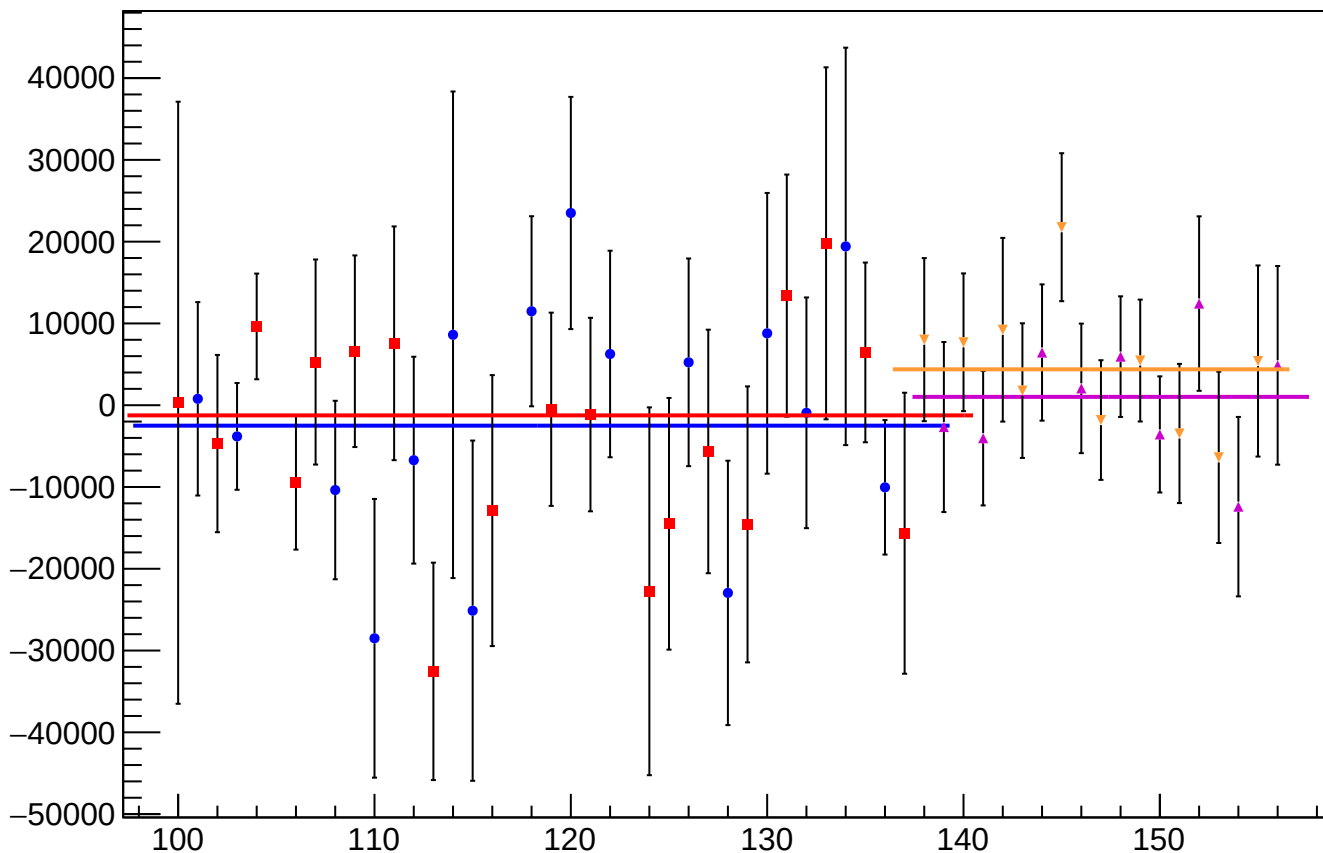
Right: 2478.107 $\pm$ 0.468 χ^2 /NDF: 1052433.3/34

In: 2493.501 $\pm$ 0.459 χ^2 /NDF: 661026.8/24

Out: 2484.471 $\pm$ 0.456 χ^2 /NDF: 509800.8/28

All: 2488.952 $\pm$ 0.323 χ^2 /NDF: 1171022.6/53

asym_atr2_reg_correction_mean vs Slug, Sign Corrected



Right In: -2500.602 ± 3075.580 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 4388.385 ± 2817.481 $\chi^2/\text{NDF}: 6.9/9$

Right Out: -1244.352 ± 2852.739 $\chi^2/\text{NDF}: 16.6/18$

Left In: 1019.292 ± 2930.006 $\chi^2/\text{NDF}: 4.5/8$

Left: 2769.773 ± 2030.876 $\chi^2/\text{NDF}: 12.2/18$

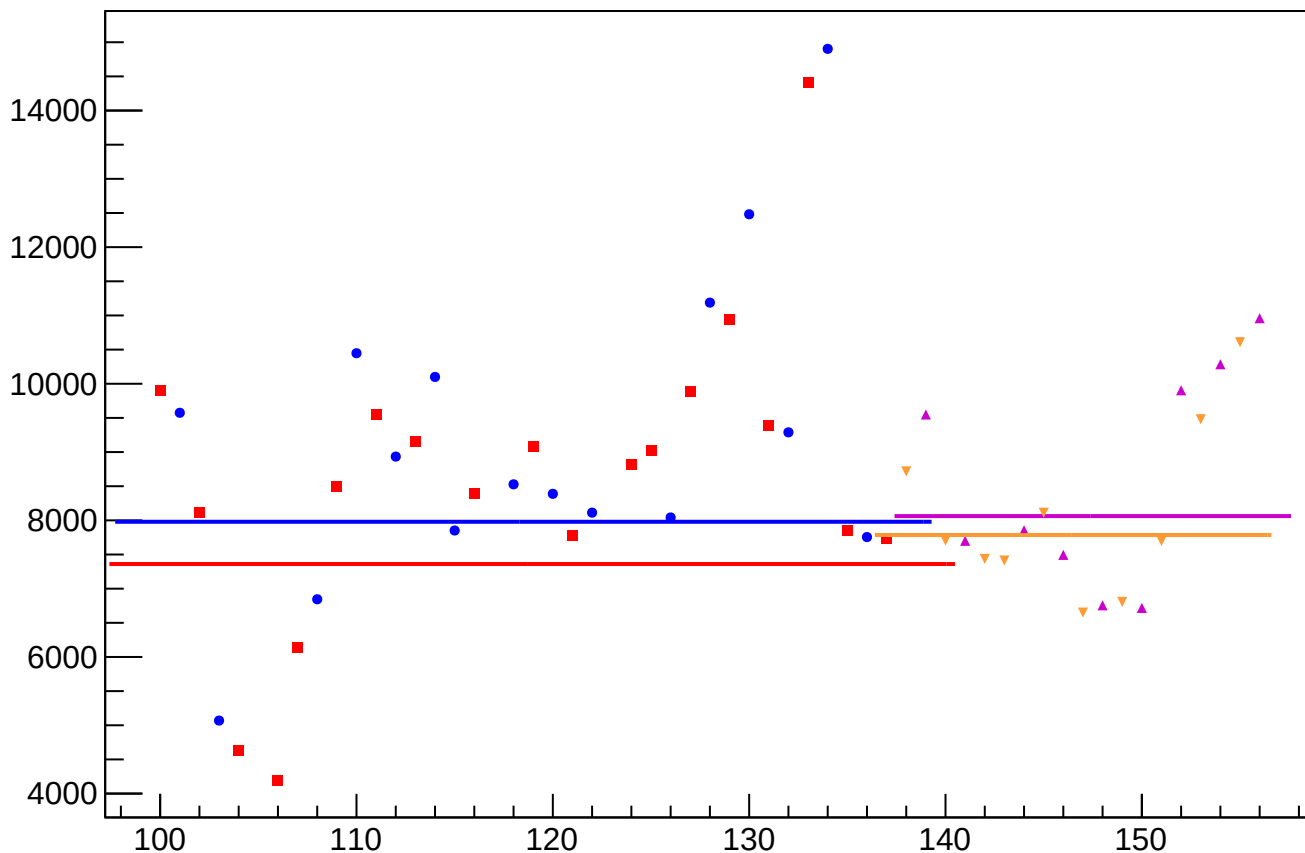
Right: -1825.322 ± 2091.539 $\chi^2/\text{NDF}: 30.4/34$

In: -655.384 ± 2121.425 $\chi^2/\text{NDF}: 19.0/24$

Out: 1607.039 ± 2004.609 $\chi^2/\text{NDF}: 25.5/28$

All: 539.830 ± 1457.020 $\chi^2/\text{NDF}: 45.1/53$

asym_atr2_reg_correction_rms vs Slug, Sign Corrected



Right In: 7979.488+/-2.175 χ^2/NDF : 923083.9/15

Left Out: 7785.552+/-1.992 χ^2/NDF : 278252.9/9

Right Out: 7360.741+/-2.017 χ^2/NDF : 1286008.5/18

Left In: 8062.515+/-2.072 χ^2/NDF : 446235.6/8

Left: 7918.613+/-1.436 χ^2/NDF : 733773.4/18

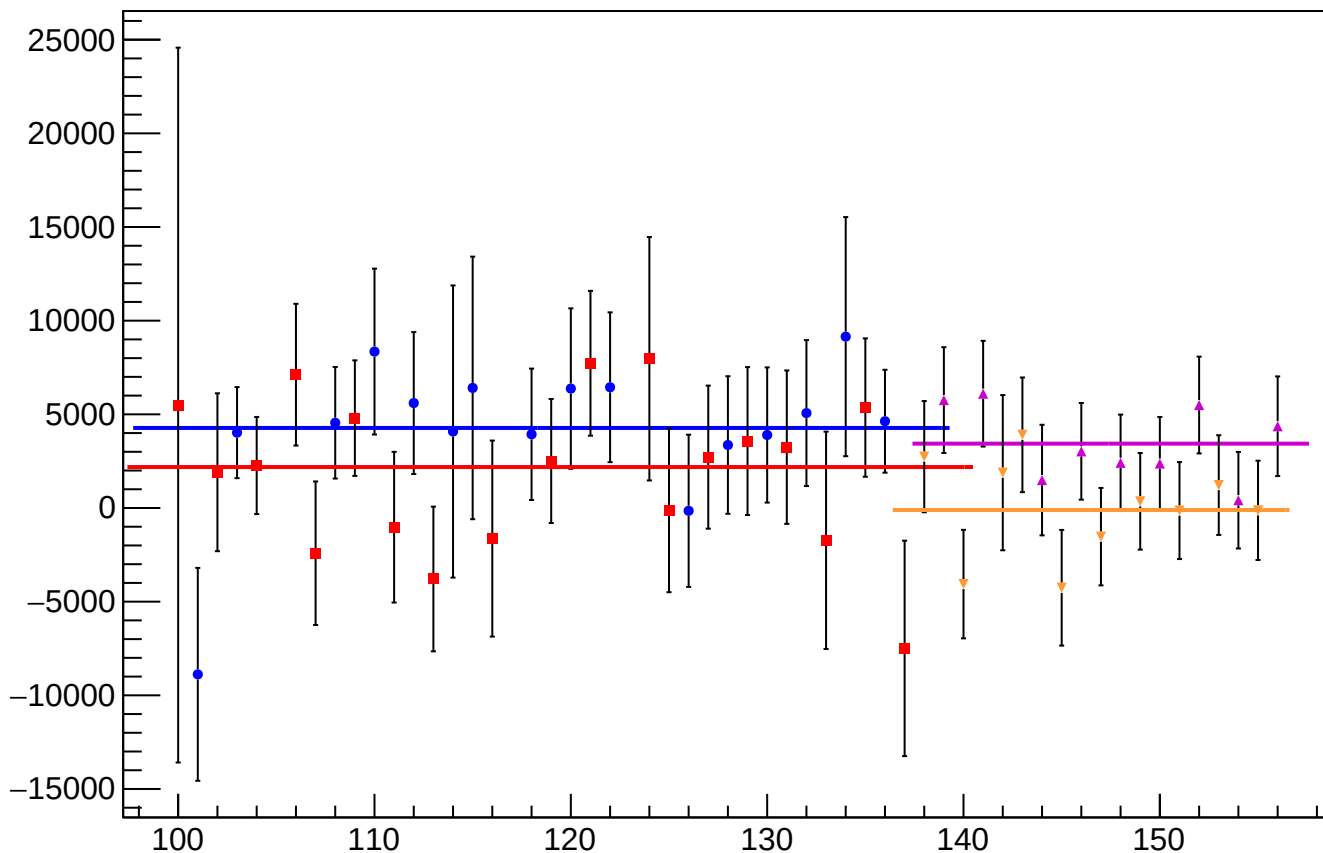
Right: 7646.889+/-1.479 χ^2/NDF : 2252604.4/34

In: 8023.013+/-1.500 χ^2/NDF : 1370083.5/24

Out: 7575.788+/-1.417 χ^2/NDF : 1586712.3/28

All: 7786.749+/-1.030 χ^2/NDF : 3003752.6/53

cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903 $\pm$ 951.956 χ^2/NDF : 8.9/15

Left Out: -106.369 $\pm$ 900.308 χ^2/NDF : 7.1/9

Right Out: 2186.887 $\pm$ 922.111 χ^2/NDF : 14.8/18

Left In: 3435.650 $\pm$ 887.170 χ^2/NDF : 4.5/8

Left: 1690.673 $\pm$ 631.918 χ^2/NDF : 19.5/18

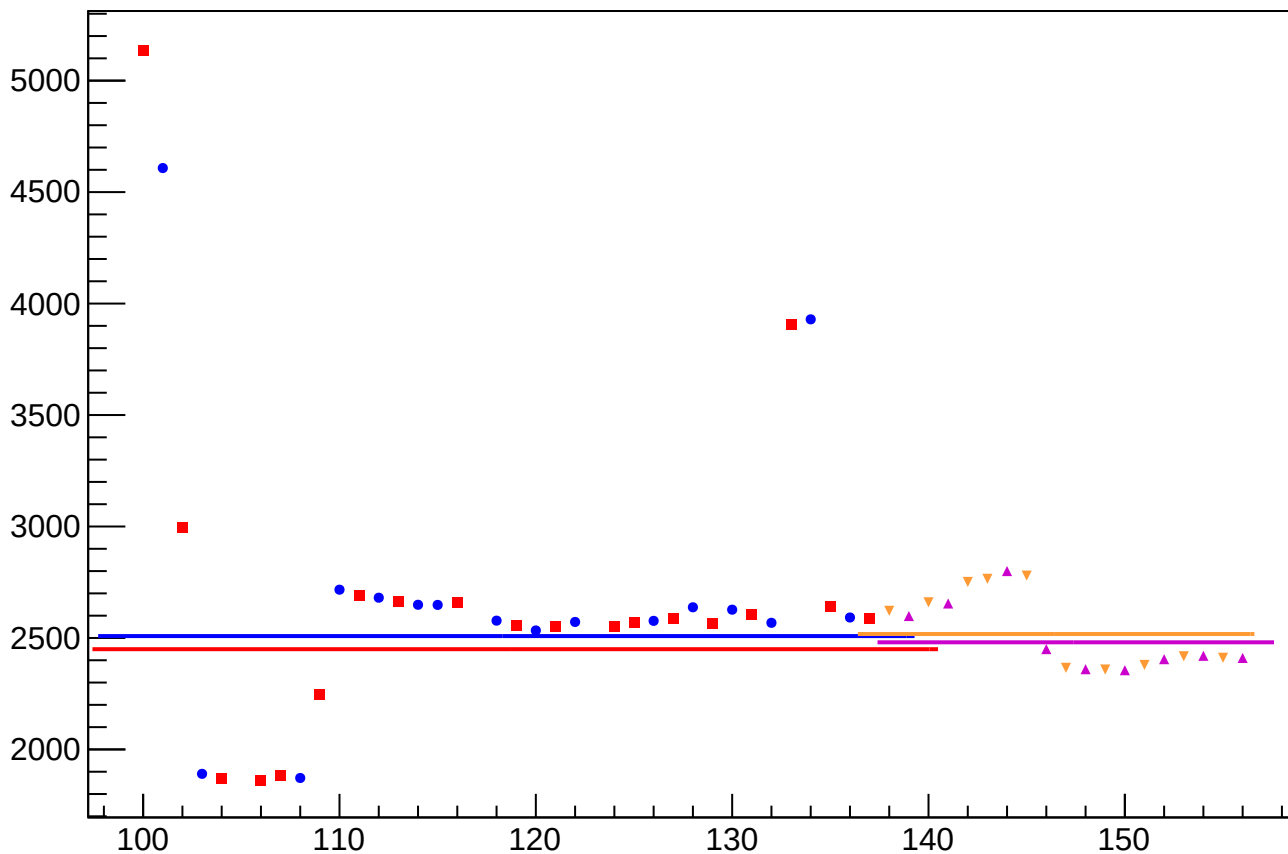
Right: 3197.167 $\pm$ 662.331 χ^2/NDF : 26.2/34

In: 3825.284 $\pm$ 649.020 χ^2/NDF : 13.8/24

Out: 1012.827 $\pm$ 644.184 χ^2/NDF : 25.1/28

All: 2408.539 $\pm$ 457.207 χ^2/NDF : 48.4/53

cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467 $\pm$ 0.673 χ^2 /NDF: 611587.4/15

Left Out: 2517.692 $\pm$ 0.637 χ^2 /NDF: 67320.1/9

Right Out: 2449.647 $\pm$ 0.652 χ^2 /NDF: 436846.6/18

Left In: 2480.503 $\pm$ 0.627 χ^2 /NDF: 48513.5/8

Left: 2498.824 $\pm$ 0.447 χ^2 /NDF: 117565.0/18

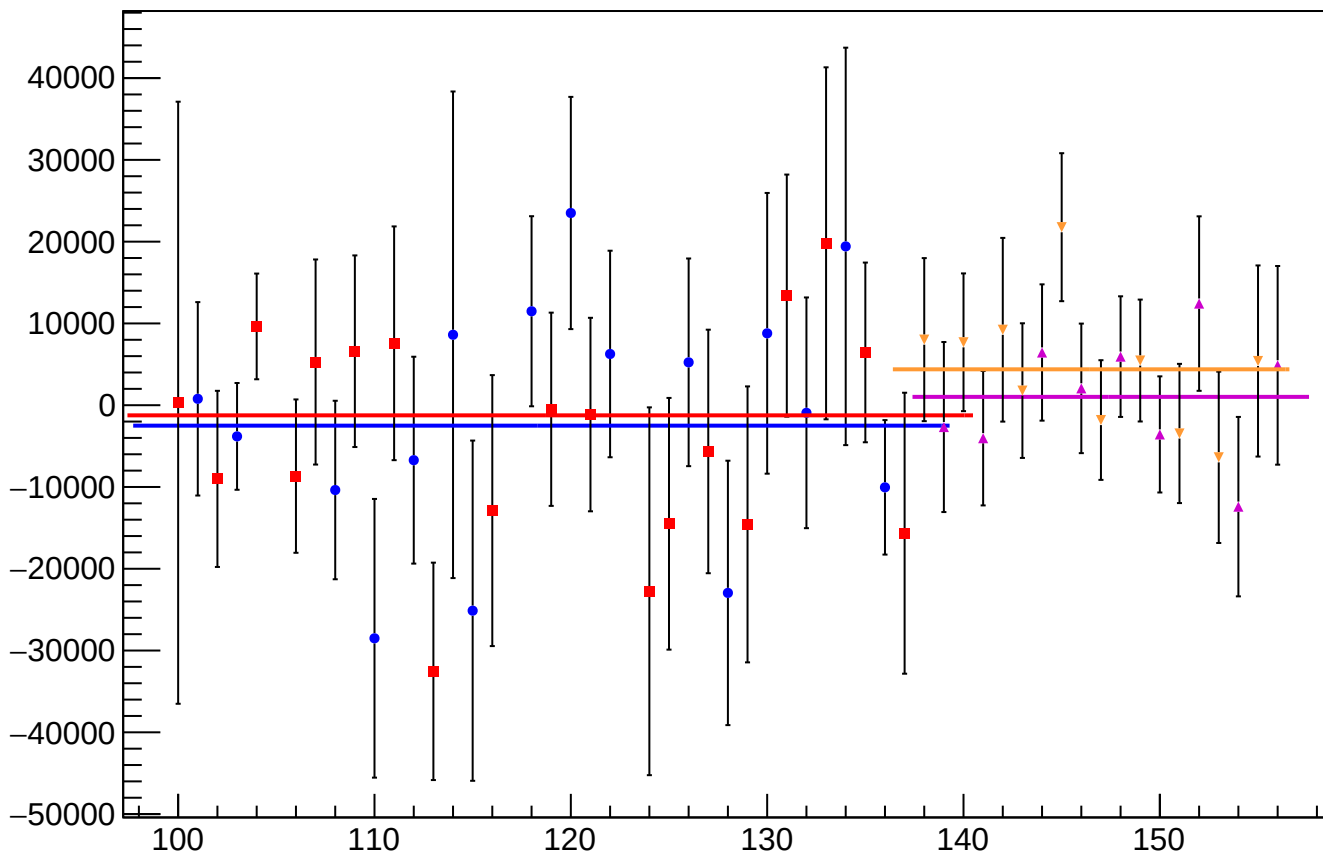
Right: 2478.121 $\pm$ 0.468 χ^2 /NDF: 1052373.5/34

In: 2493.501 $\pm$ 0.459 χ^2 /NDF: 661024.6/24

Out: 2484.483 $\pm$ 0.456 χ^2 /NDF: 509742.4/28

All: 2488.959 $\pm$ 0.323 χ^2 /NDF: 1170961.5/53

asym_atr2_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380+/-3075.668 χ^2/NDF : 13.8/15

Left Out: 4388.349+/-2817.477 χ^2/NDF : 6.9/9

Right Out: -1239.896+/-2893.464 χ^2/NDF : 16.6/18

Left In: 1019.478+/-2930.006 χ^2/NDF : 4.5/8

Left: 2769.847+/-2030.874 χ^2/NDF : 12.2/18

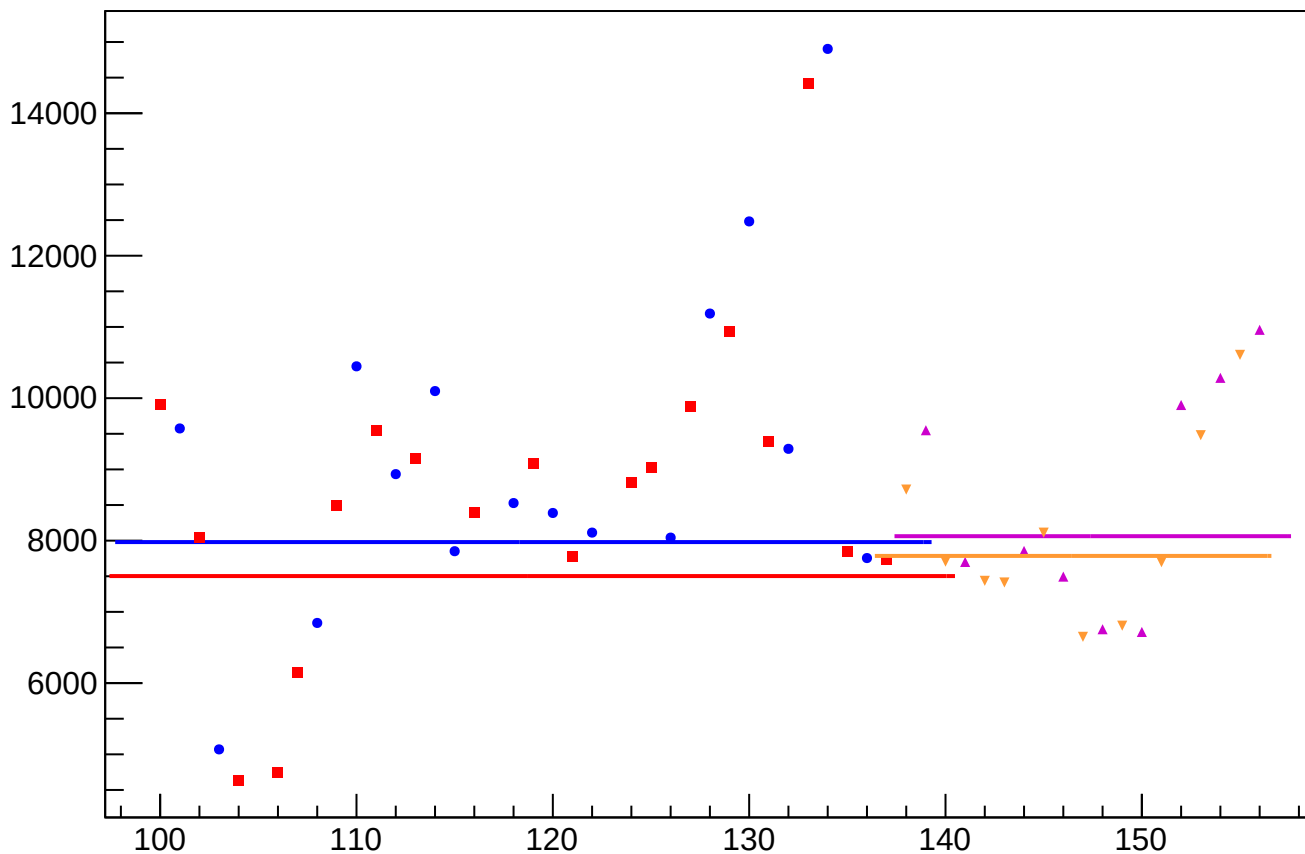
Right: -1831.698+/-2107.459 χ^2/NDF : 30.5/34

In: -655.130+/-2121.453 χ^2/NDF : 19.0/24

Out: 1649.101+/-2018.586 χ^2/NDF : 25.5/28

All: 554.203+/-1462.370 χ^2/NDF : 45.1/53

asym_atr2_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812 $\pm$ 2.175 χ^2 /NDF: 922785.4/15

Left Out: 7785.537 $\pm$ 1.992 χ^2 /NDF: 278259.5/9

Right Out: 7502.685 $\pm$ 2.046 χ^2 /NDF: 1135523.5/18

Left In: 8062.513 $\pm$ 2.072 χ^2 /NDF: 446237.3/8

Left: 7918.604 $\pm$ 1.436 χ^2 /NDF: 733782.7/18

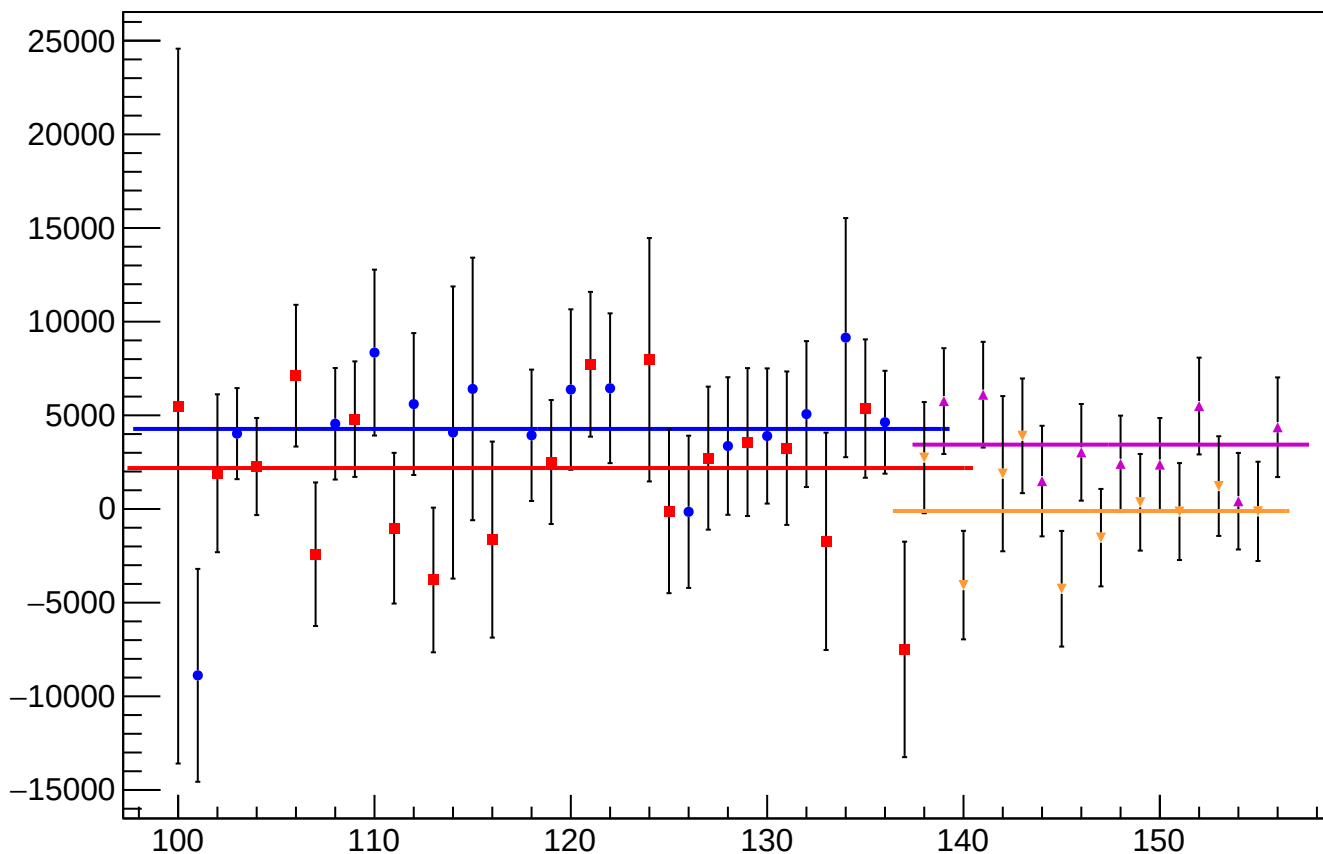
Right: 7726.698 $\pm$ 1.490 χ^2 /NDF: 2083841.8/34

In: 8023.167 $\pm$ 1.500 χ^2 /NDF: 1369780.8/24

Out: 7647.874 $\pm$ 1.427 χ^2 /NDF: 1423593.4/28

All: 7826.201 $\pm$ 1.034 χ^2 /NDF: 2826223.3/53

eigen_cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903+/-951.956 χ^2/NDF : 8.9/15

Left Out: -106.369+/-900.308 χ^2/NDF : 7.1/9

Right Out: 2186.887+/-922.111 χ^2/NDF : 14.8/18

Left In: 3435.650+/-887.170 χ^2/NDF : 4.5/8

Left: 1690.673+/-631.918 χ^2/NDF : 19.5/18

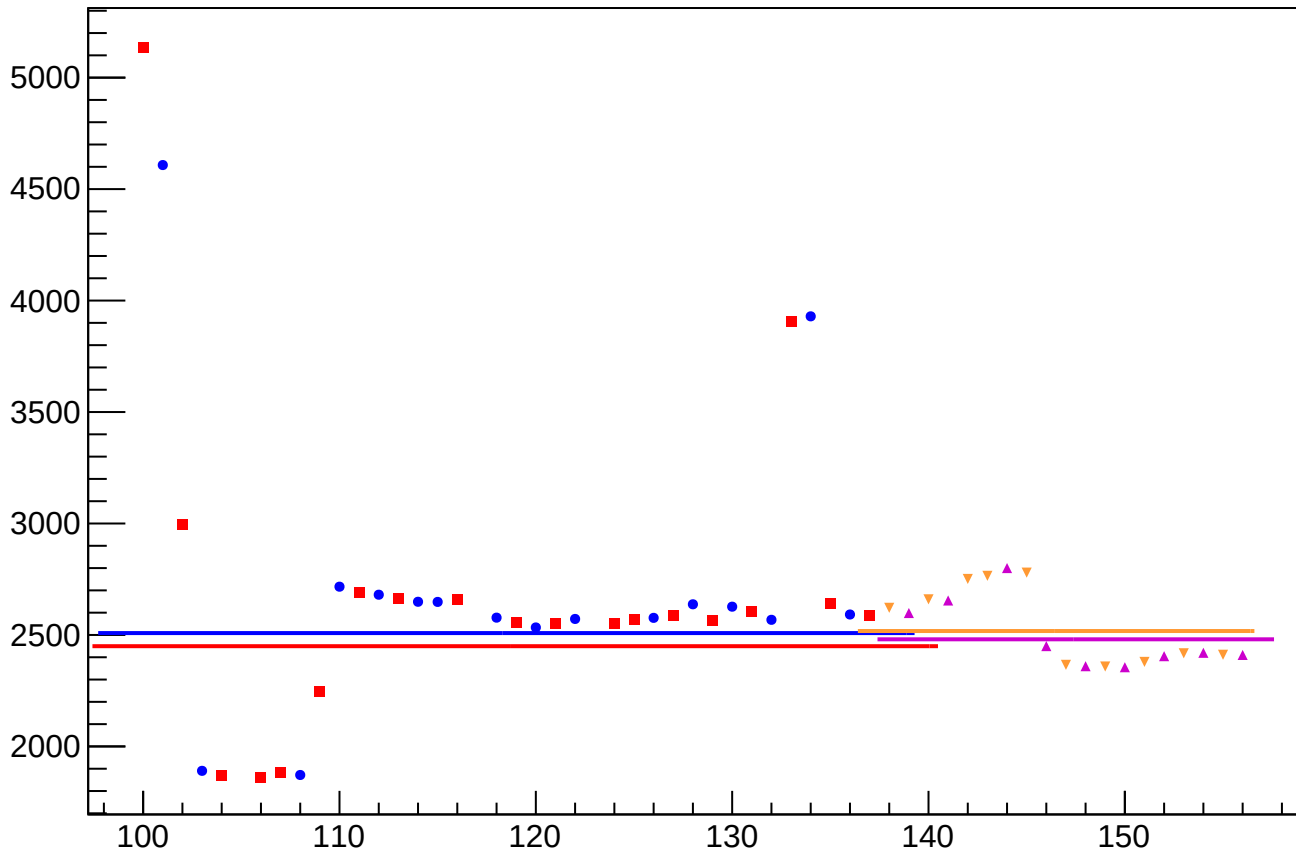
Right: 3197.167+/-662.331 χ^2/NDF : 26.2/34

In: 3825.284+/-649.020 χ^2/NDF : 13.8/24

Out: 1012.827+/-644.184 χ^2/NDF : 25.1/28

All: 2408.539+/-457.207 χ^2/NDF : 48.4/53

eigen_cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467 $\pm$ 0.673 χ^2/NDF : 611587.4/15

Left Out: 2517.692 $\pm$ 0.637 χ^2/NDF : 67320.1/9

Right Out: 2449.647 $\pm$ 0.652 χ^2/NDF : 436846.6/18

Left In: 2480.503 $\pm$ 0.627 χ^2/NDF : 48513.5/8

Left: 2498.824 $\pm$ 0.447 χ^2/NDF : 117565.0/18

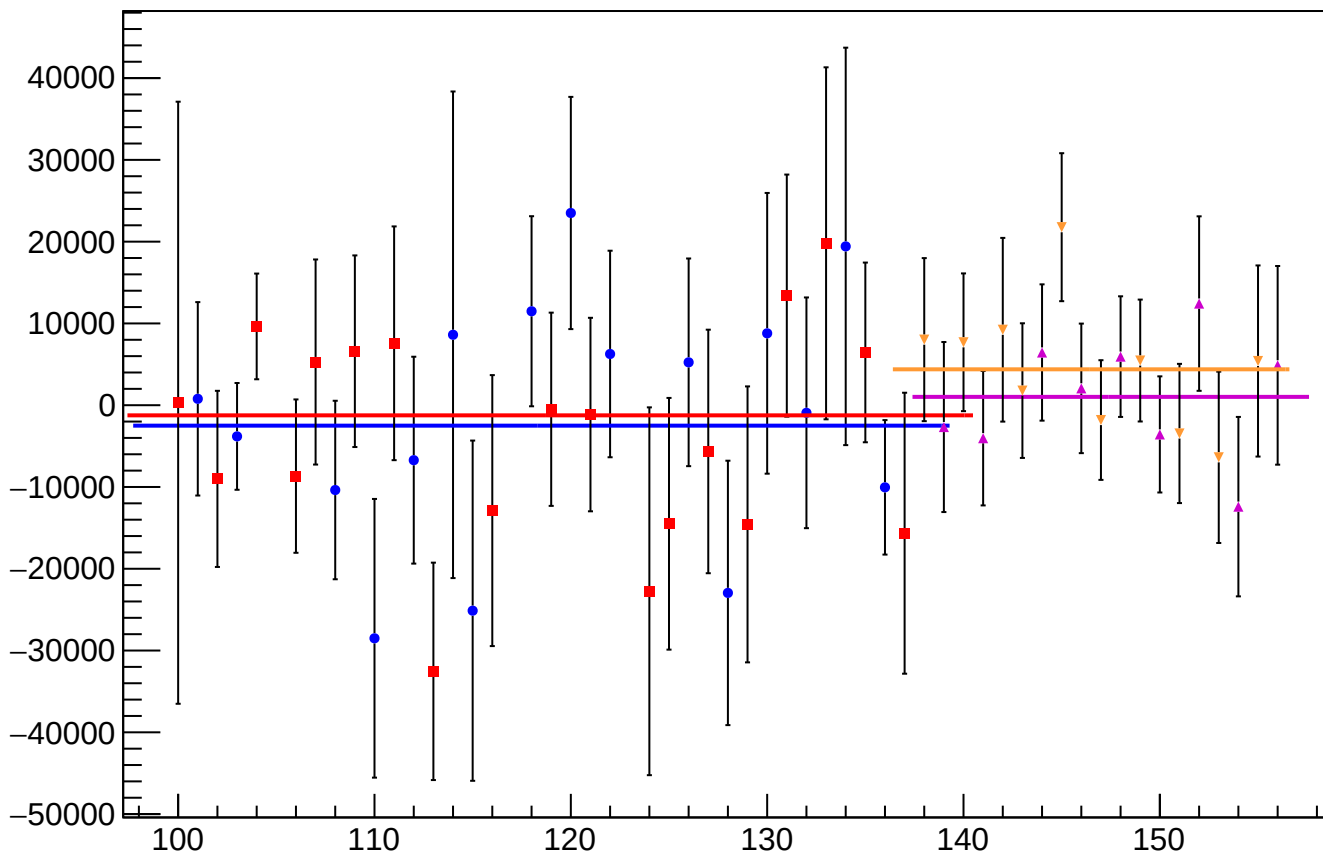
Right: 2478.121 $\pm$ 0.468 χ^2/NDF : 1052373.5/34

In: 2493.501 $\pm$ 0.459 χ^2/NDF : 661024.6/24

Out: 2484.483 $\pm$ 0.456 χ^2/NDF : 509742.4/28

All: 2488.959 $\pm$ 0.323 χ^2/NDF : 1170961.5/53

asym_atr2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380 $\pm$ 3075.668 χ^2 /NDF: 13.8/15

Left Out: 4388.349 $\pm$ 2817.477 χ^2 /NDF: 6.9/9

Right Out: -1239.896 $\pm$ 2893.464 χ^2 /NDF: 16.6/18

Left In: 1019.478 $\pm$ 2930.006 χ^2 /NDF: 4.5/8

Left: 2769.847 $\pm$ 2030.874 χ^2 /NDF: 12.2/18

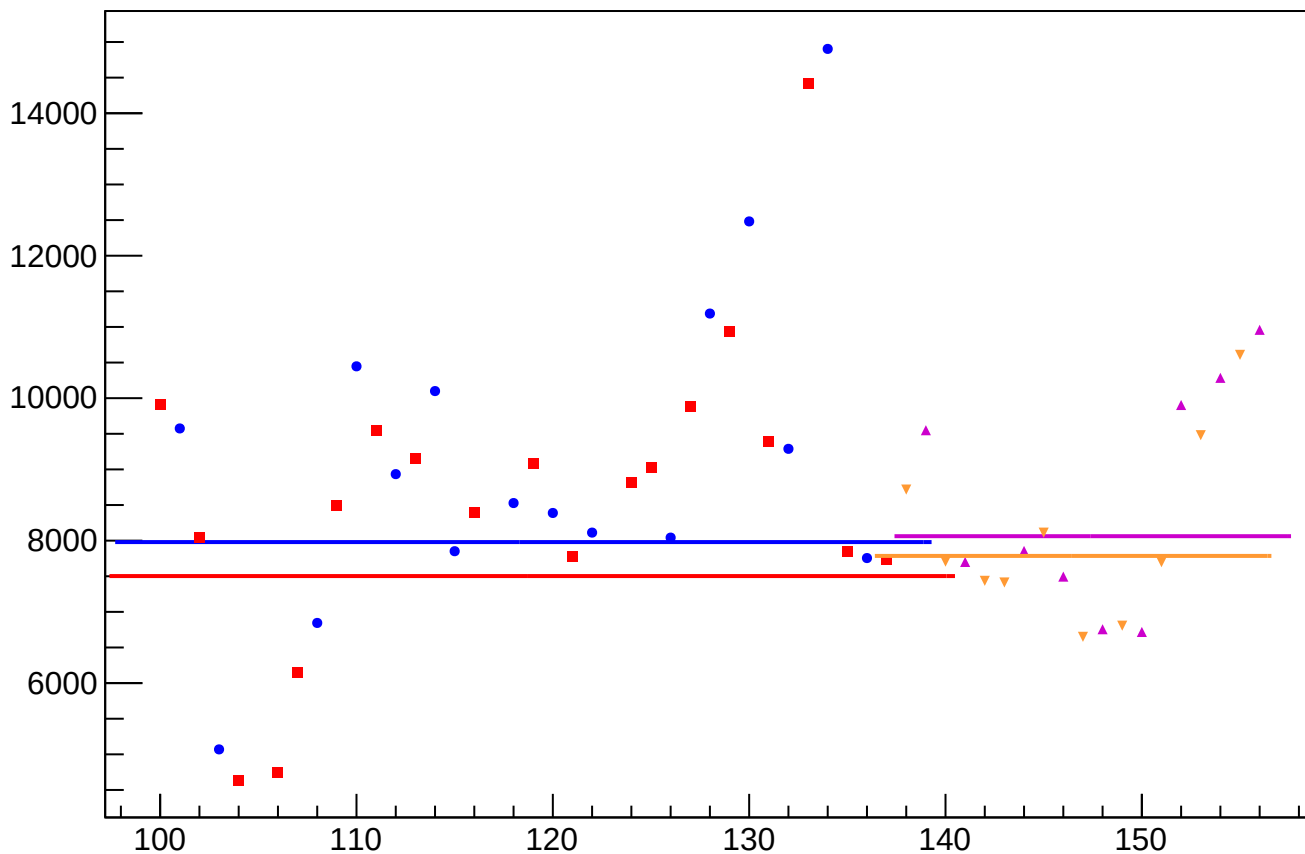
Right: -1831.698 $\pm$ 2107.459 χ^2 /NDF: 30.5/34

In: -655.130 $\pm$ 2121.453 χ^2 /NDF: 19.0/24

Out: 1649.101 $\pm$ 2018.586 χ^2 /NDF: 25.5/28

All: 554.203 $\pm$ 1462.370 χ^2 /NDF: 45.1/53

asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812 $\pm$ 2.175 χ^2 /NDF: 922785.4/15

Left Out: 7785.537 $\pm$ 1.992 χ^2 /NDF: 278259.5/9

Right Out: 7502.685 $\pm$ 2.046 χ^2 /NDF: 1135523.5/18

Left In: 8062.513 $\pm$ 2.072 χ^2 /NDF: 446237.3/8

Left: 7918.604 $\pm$ 1.436 χ^2 /NDF: 733782.7/18

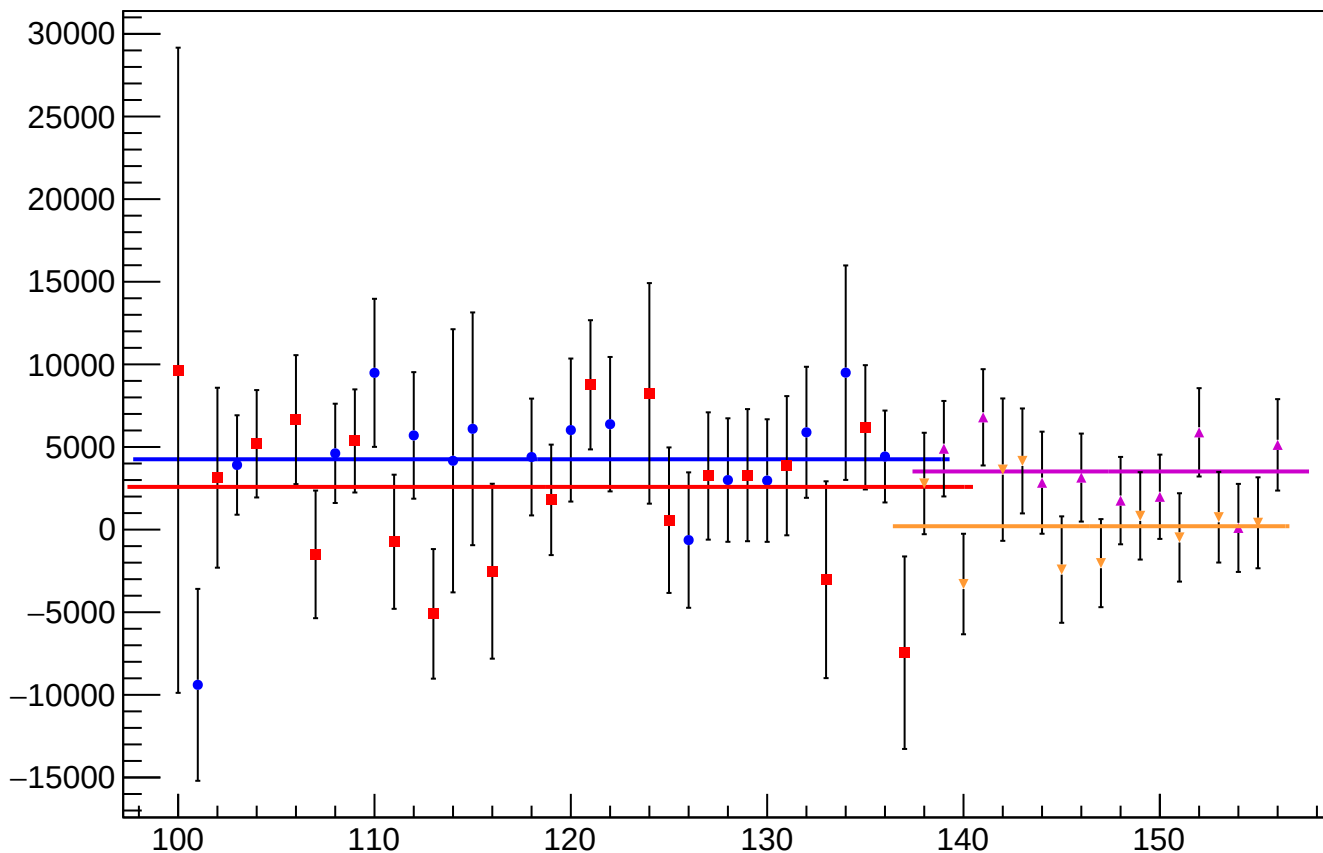
Right: 7726.698 $\pm$ 1.490 χ^2 /NDF: 2083841.8/34

In: 8023.167 $\pm$ 1.500 χ^2 /NDF: 1369780.8/24

Out: 7647.874 $\pm$ 1.427 χ^2 /NDF: 1423593.4/28

All: 7826.201 $\pm$ 1.034 χ^2 /NDF: 2826223.3/53

dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.977 $\pm$ 990.542 χ^2 /NDF: 10.1/15

Left Out: 204.876 $\pm$ 931.660 χ^2 /NDF:5.7/9

Right Out: 2584.689 $\pm$ 966.049 χ^2 /NDF: 17.6/18

Left In: 3519.020 $\pm$ 916.054 χ^2 /NDF:5.1/8

Left: 1889.938 $\pm$ 653.196 χ^2 /NDF: 17.3/18

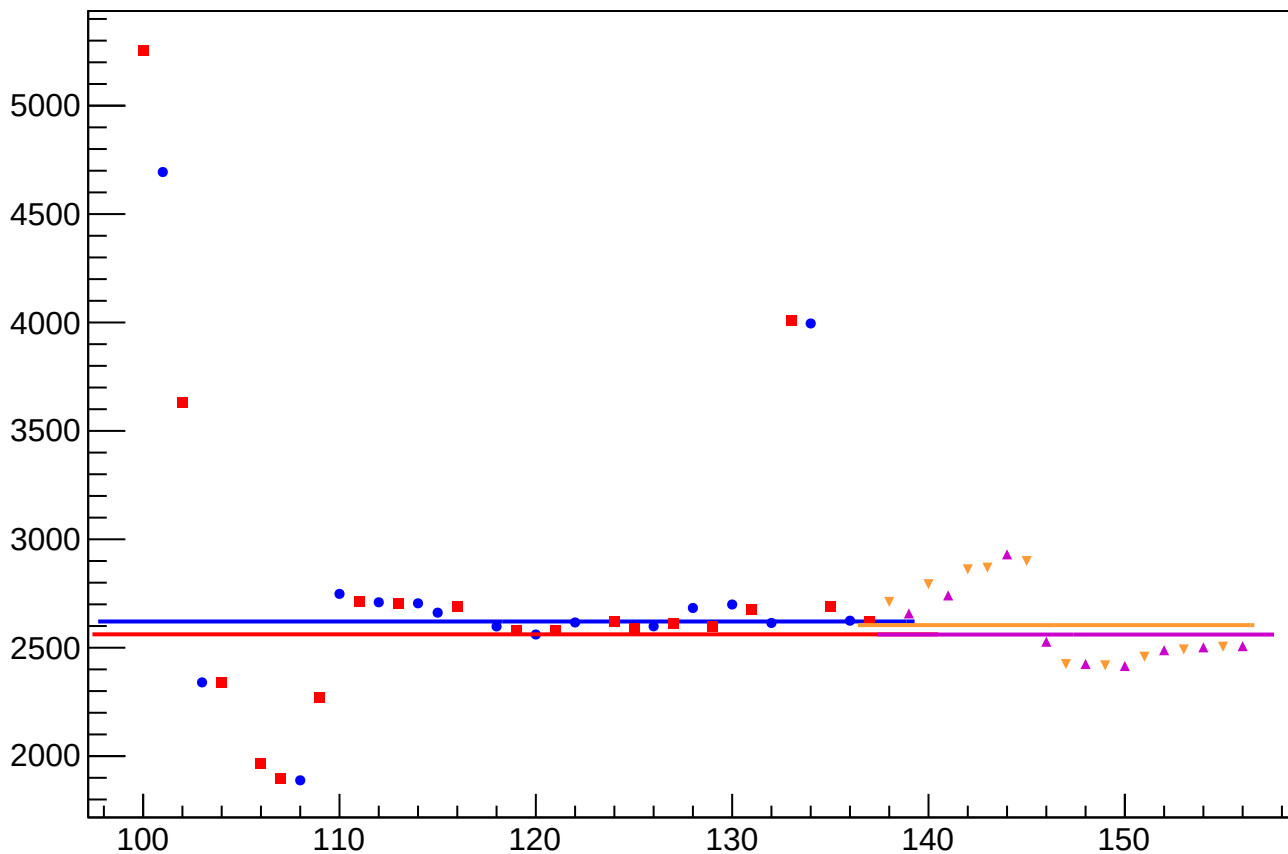
Right: 3399.902 $\pm$ 691.597 χ^2 /NDF: 29.1/34

In: 3859.211 $\pm$ 672.541 χ^2 /NDF:15.5/24

Out: 1351.672 $\pm$ 670.611 χ^2 /NDF:26.5/28

All: 2601.838 $\pm$ 474.875 χ^2 /NDF: 49.0/53

dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.964 $\pm$ 0.700 χ^2 /NDF: 485914.1/15

Left Out: 2604.222 $\pm$ 0.659 χ^2 /NDF: 78856.9/9

Right Out: 2561.718 $\pm$ 0.683 χ^2 /NDF: 378259.5/18

Left In: 2560.695 $\pm$ 0.648 χ^2 /NDF: 53882.1/8

Left: 2582.091 $\pm$ 0.462 χ^2 /NDF: 134958.6/18

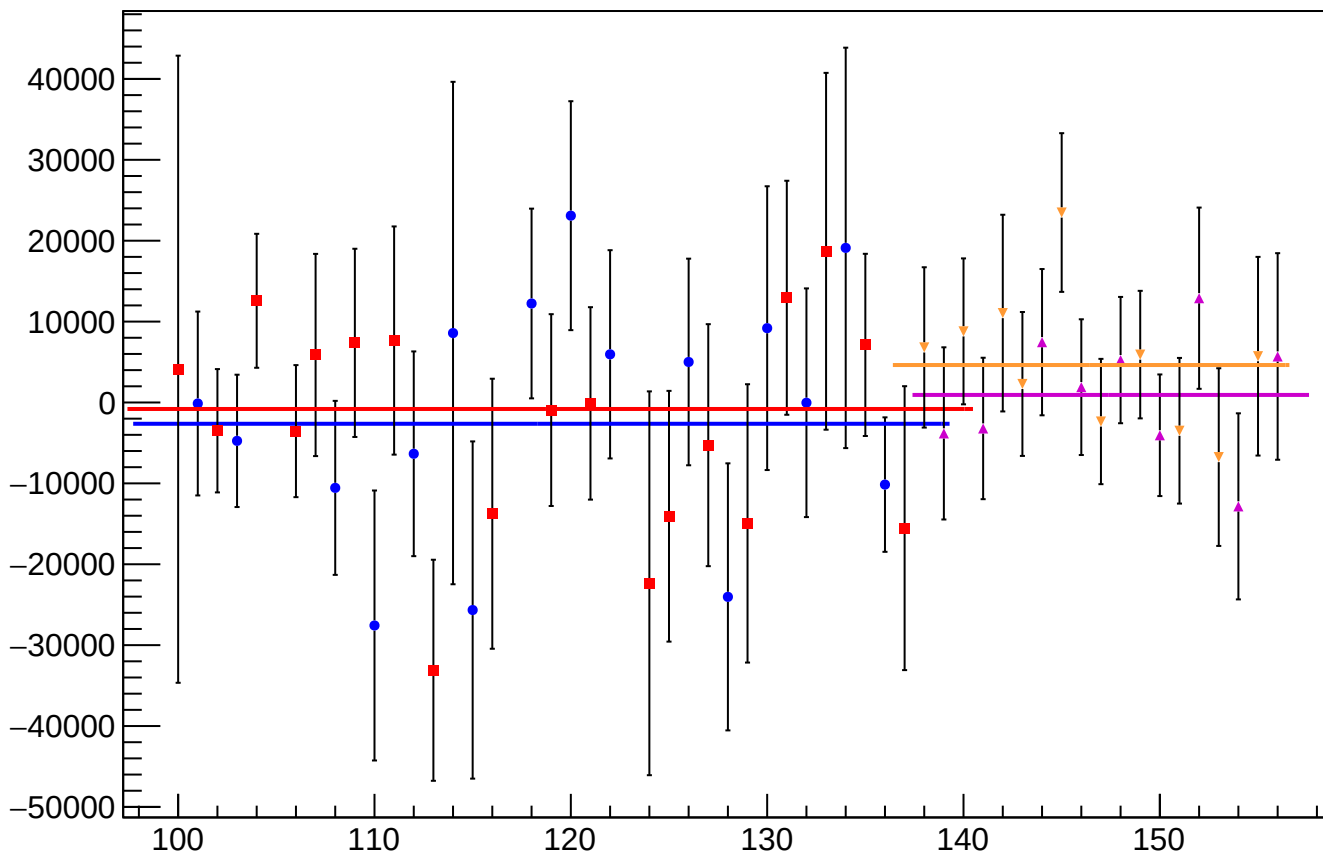
Right: 2590.582 $\pm$ 0.489 χ^2 /NDF: 867842.6/34

In: 2588.478 $\pm$ 0.476 χ^2 /NDF: 543787.0/24

Out: 2583.728 $\pm$ 0.474 χ^2 /NDF: 459123.5/28

All: 2586.095 $\pm$ 0.336 χ^2 /NDF: 1002960.6/53

asym_atr2_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.921 ± 3211.506 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 4630.517 ± 2984.332 $\chi^2/\text{NDF}: 7.0/9$

Right Out: -802.880 ± 2872.934 $\chi^2/\text{NDF}: 15.4/18$

Left In: 933.413 ± 3099.296 $\chi^2/\text{NDF}: 4.4/8$

Left: 2851.805 ± 2149.736 $\chi^2/\text{NDF}: 12.2/18$

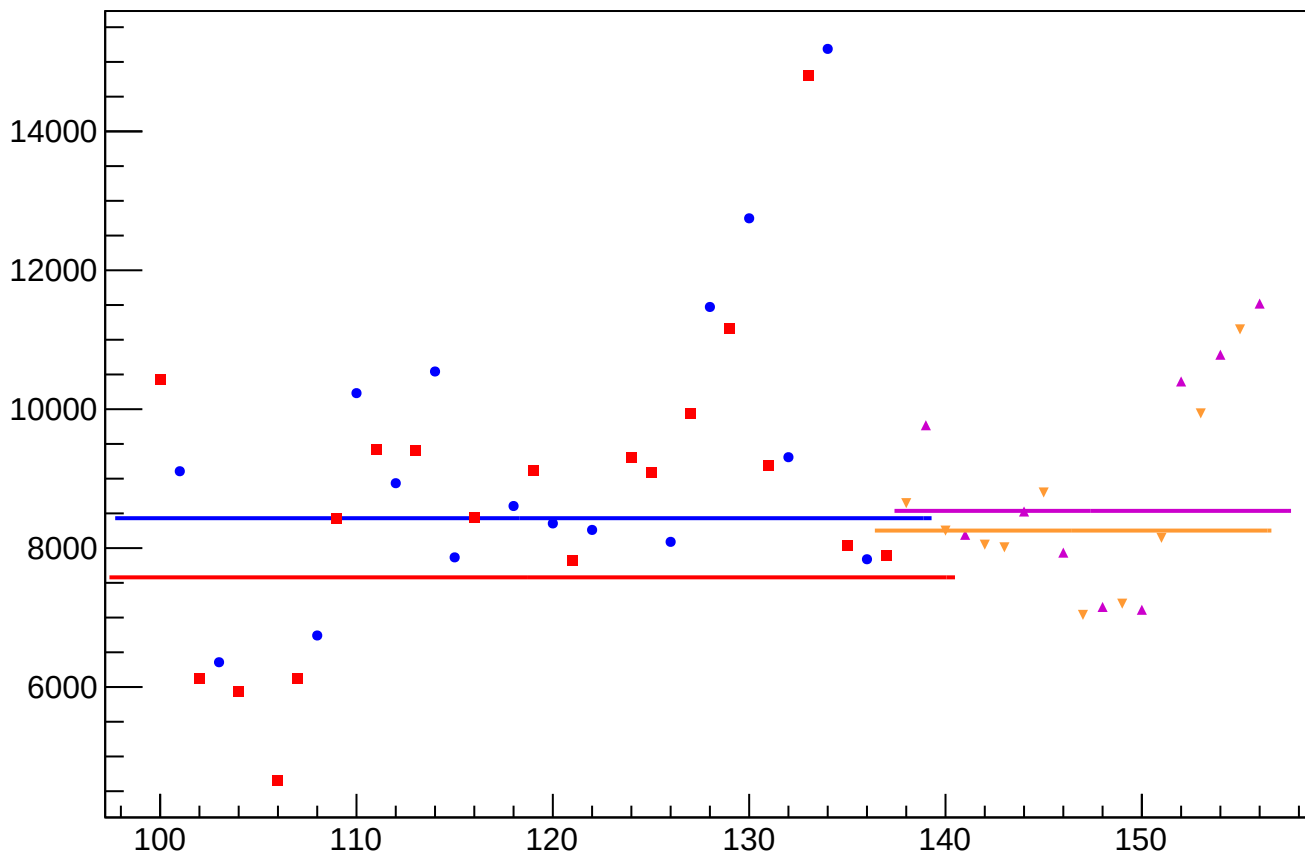
Right: -1615.936 ± 2141.201 $\chi^2/\text{NDF}: 29.4/34$

In: -785.880 ± 2230.148 $\chi^2/\text{NDF}: 18.9/24$

Out: 1810.519 ± 2069.733 $\chi^2/\text{NDF}: 24.2/28$

All: 609.048 ± 1517.066 $\chi^2/\text{NDF}: 43.7/53$

asym_atr2_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.768 $\pm$ 2.271 χ^2 /NDF: 580295.1/15

Left Out: 8252.555 $\pm$ 2.110 χ^2 /NDF: 254957.7/9

Right Out: 7579.112 $\pm$ 2.031 χ^2 /NDF: 974126.9/18

Left In: 8536.144 $\pm$ 2.192 χ^2 /NDF: 415723.5/8

Left: 8388.993 $\pm$ 1.520 χ^2 /NDF: 679370.0/18

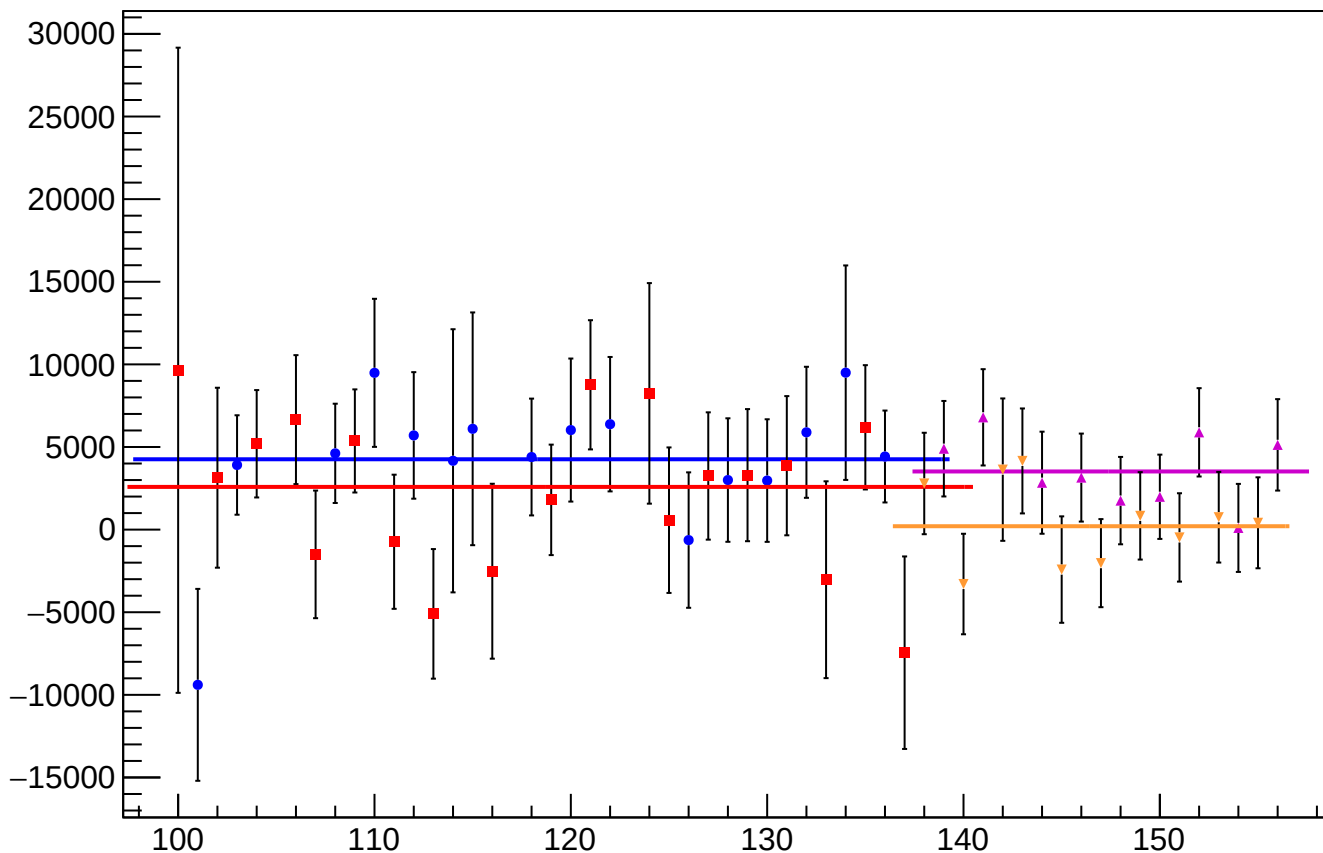
Right: 7957.695 $\pm$ 1.514 χ^2 /NDF: 1632549.6/34

In: 8485.329 $\pm$ 1.577 χ^2 /NDF: 997133.4/24

Out: 7903.030 $\pm$ 1.464 χ^2 /NDF: 1281943.1/28

All: 8172.486 $\pm$ 1.073 χ^2 /NDF: 2352331.2/53

eigen_dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.984 $\pm$ 990.541 χ^2 /NDF: 10.1/15

Left Out: 204.864 $\pm$ 931.661 χ^2 /NDF: 5.7/9

Right Out: 2584.699 $\pm$ 966.048 χ^2 /NDF: 17.6/18

Left In: 3519.014 $\pm$ 916.054 χ^2 /NDF: 5.1/8

Left: 1889.930 $\pm$ 653.196 χ^2 /NDF: 17.3/18

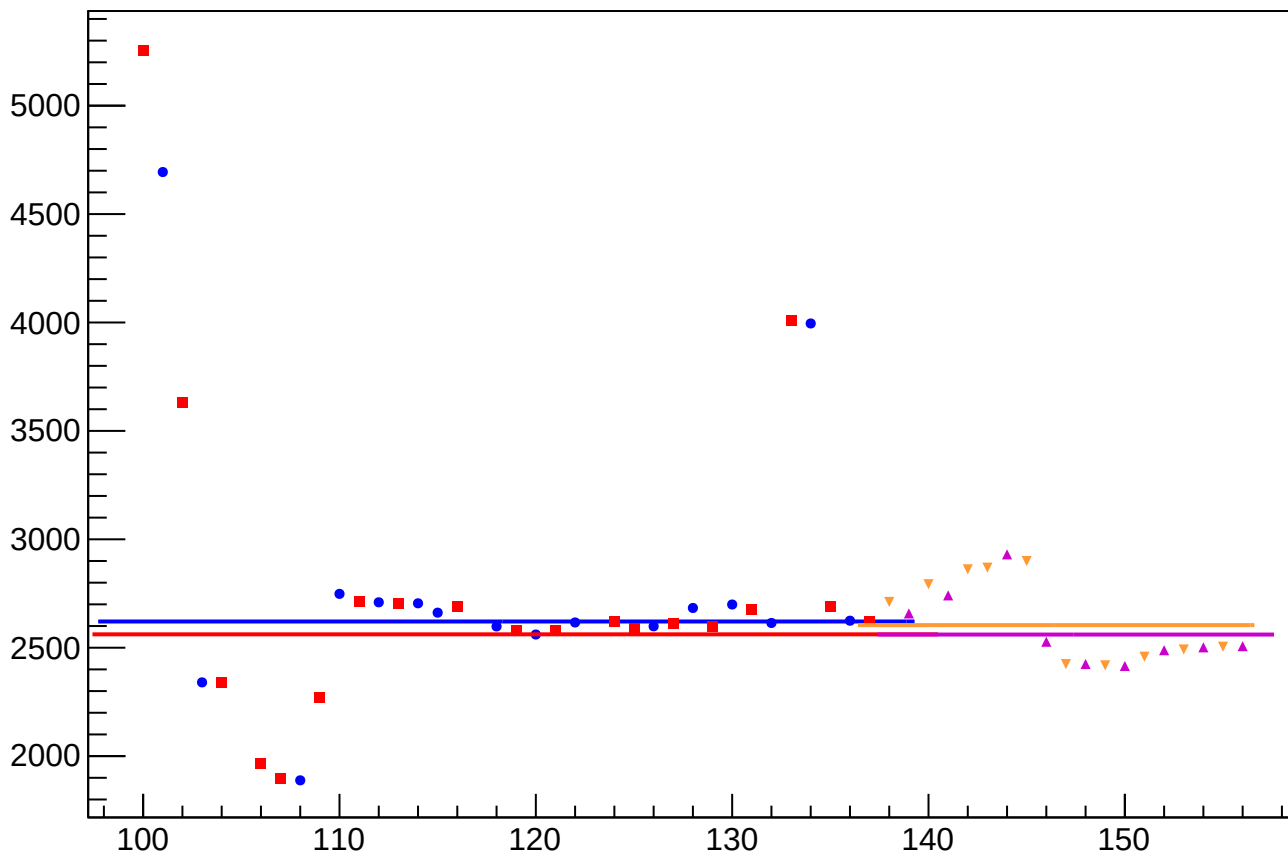
Right: 3399.911 $\pm$ 691.596 χ^2 /NDF: 29.1/34

In: 3859.212 $\pm$ 672.542 χ^2 /NDF: 15.5/24

Out: 1351.672 $\pm$ 670.611 χ^2 /NDF: 26.5/28

All: 2601.838 $\pm$ 474.875 χ^2 /NDF: 49.0/53

eigen_dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.963 $\pm$ 0.700 χ^2 /NDF: 485914.3/15

Left Out: 2604.223 $\pm$ 0.659 χ^2 /NDF: 78857.2/9

Right Out: 2561.718 $\pm$ 0.683 χ^2 /NDF: 378258.9/18

Left In: 2560.696 $\pm$ 0.648 χ^2 /NDF: 53881.9/8

Left: 2582.092 $\pm$ 0.462 χ^2 /NDF: 134958.7/18

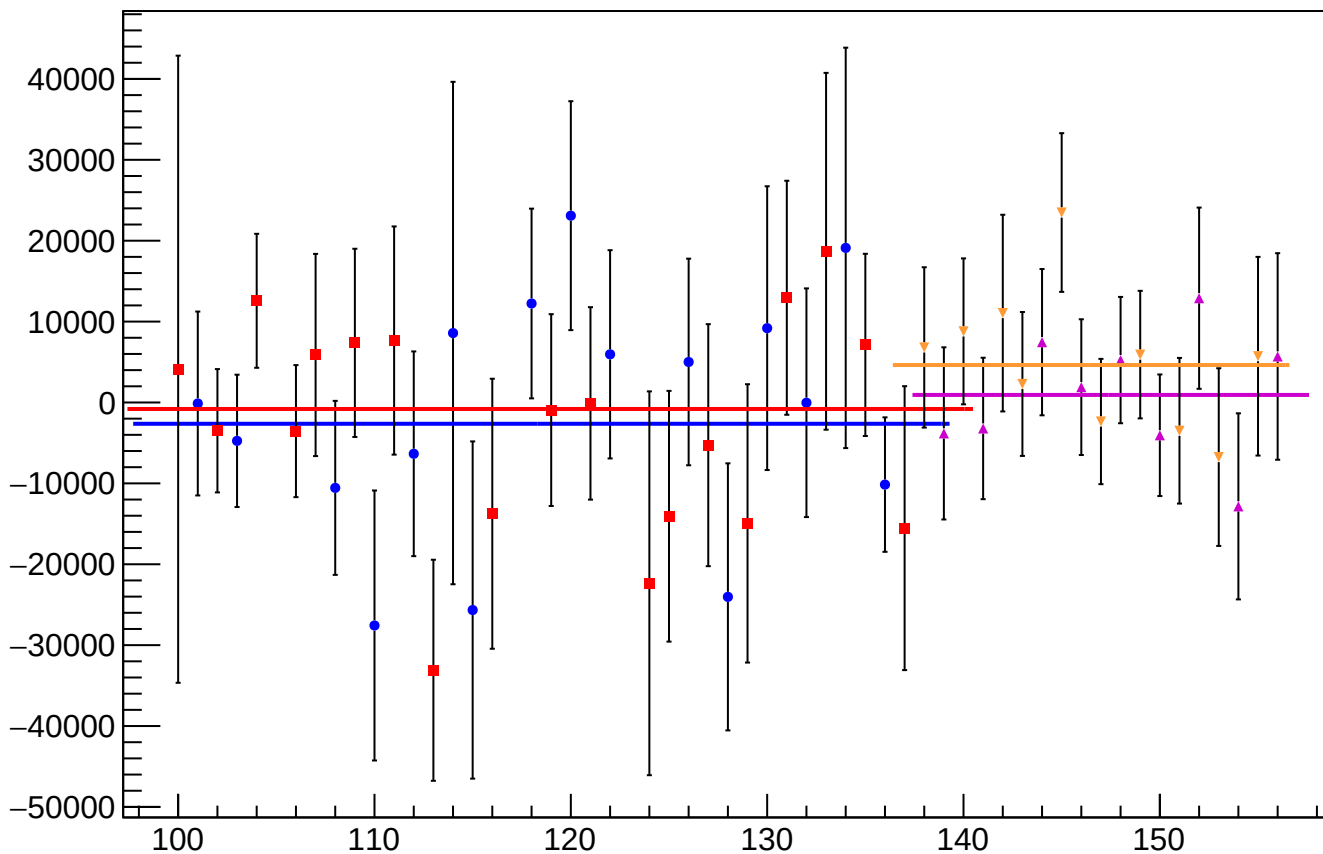
Right: 2590.582 $\pm$ 0.489 χ^2 /NDF: 867842.2/34

In: 2588.479 $\pm$ 0.476 χ^2 /NDF: 543786.8/24

Out: 2583.728 $\pm$ 0.474 χ^2 /NDF: 459123.3/28

All: 2586.096 $\pm$ 0.336 χ^2 /NDF: 1002960.2/53

asym_atr2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.887 ± 3211.501 χ^2/NDF : 13.8/15

Left Out: 4630.511 ± 2984.336 χ^2/NDF : 7.0/9

Right Out: -802.875 ± 2872.930 χ^2/NDF : 15.4/18

Left In: 933.406 ± 3099.300 χ^2/NDF : 4.4/8

Left: 2851.799 ± 2149.738 χ^2/NDF : 12.2/18

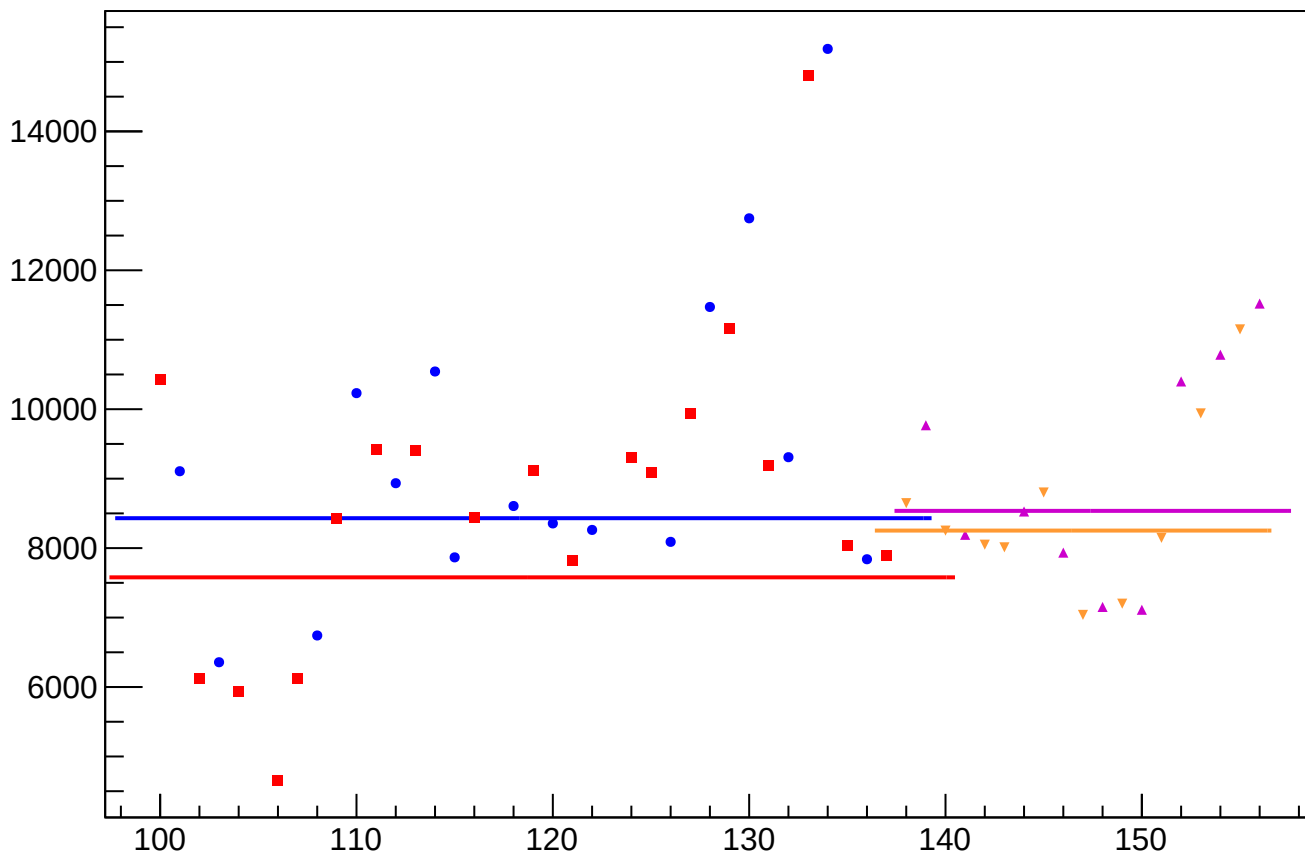
Right: -1615.919 ± 2141.198 χ^2/NDF : 29.4/34

In: -785.872 ± 2230.147 χ^2/NDF : 18.9/24

Out: 1810.511 ± 2069.733 χ^2/NDF : 24.2/28

All: 609.048 ± 1517.066 χ^2/NDF : 43.7/53

asym_atr2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.758+/-2.271 χ^2/NDF : 580289.4/15

Left Out: 8252.566+/-2.110 χ^2/NDF : 254956.7/9

Right Out: 7579.100+/-2.031 χ^2/NDF : 974123.2/18

Left In: 8536.156+/-2.192 χ^2/NDF : 415721.3/8

Left: 8389.004+/-1.520 χ^2/NDF : 679366.7/18

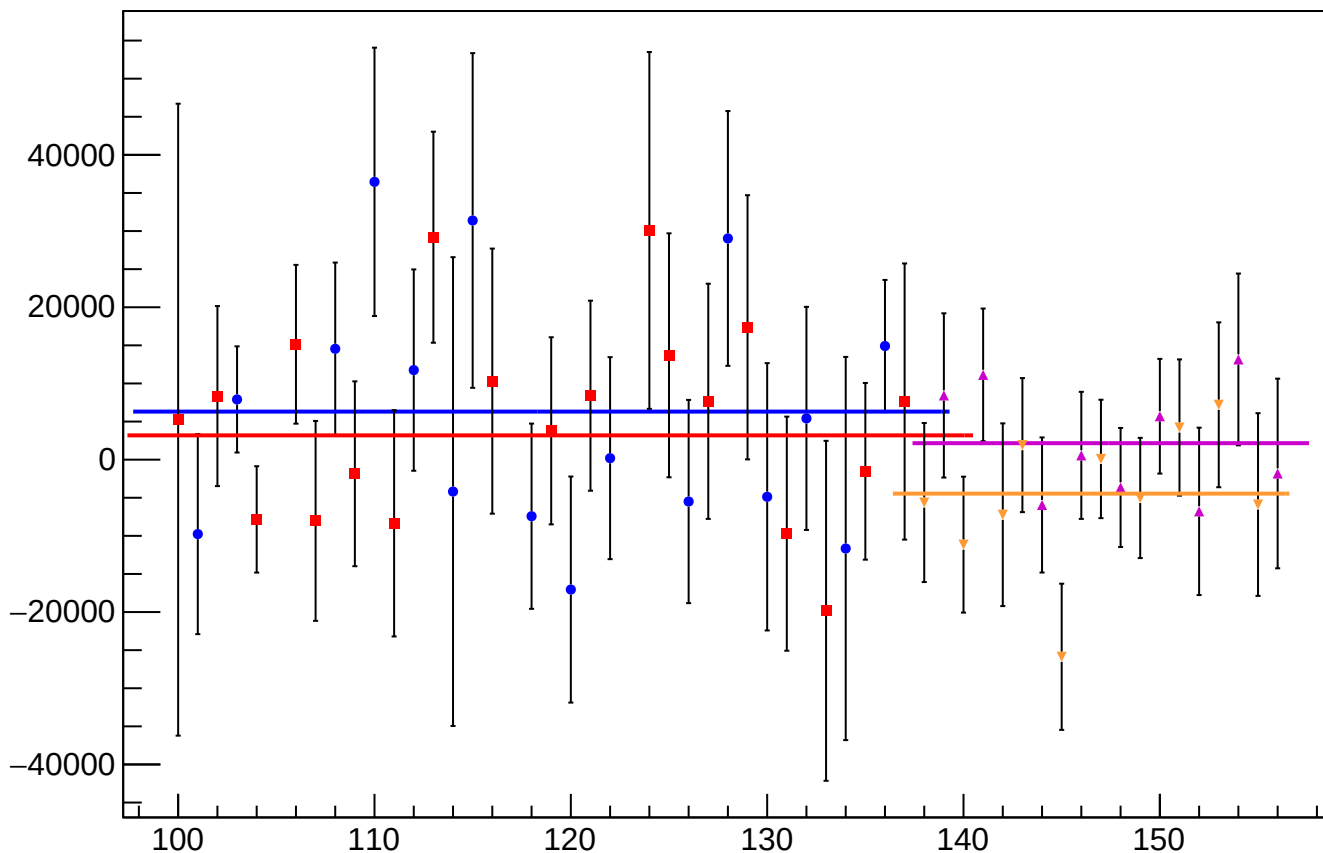
Right: 7957.685+/-1.514 χ^2/NDF : 1632540.7/34

In: 8485.330+/-1.577 χ^2/NDF : 997126.0/24

Out: 7903.029+/-1.464 χ^2/NDF : 1281941.9/28

All: 8172.486+/-1.073 χ^2/NDF : 2352323.3/53

asym_atr2_mean vs Slug, Sign Corrected



Right In: 6307.034+/-3239.703 χ^2/NDF : 15.1/15

Left Out: -4458.634+/-2972.851 χ^2/NDF : 8.6/9

Right Out: 3189.356+/-3068.645 χ^2/NDF : 13.9/18

Left In: 2162.237+/-3077.965 χ^2/NDF : 4.8/8

Left: -1263.181+/-2138.318 χ^2/NDF : 15.8/18

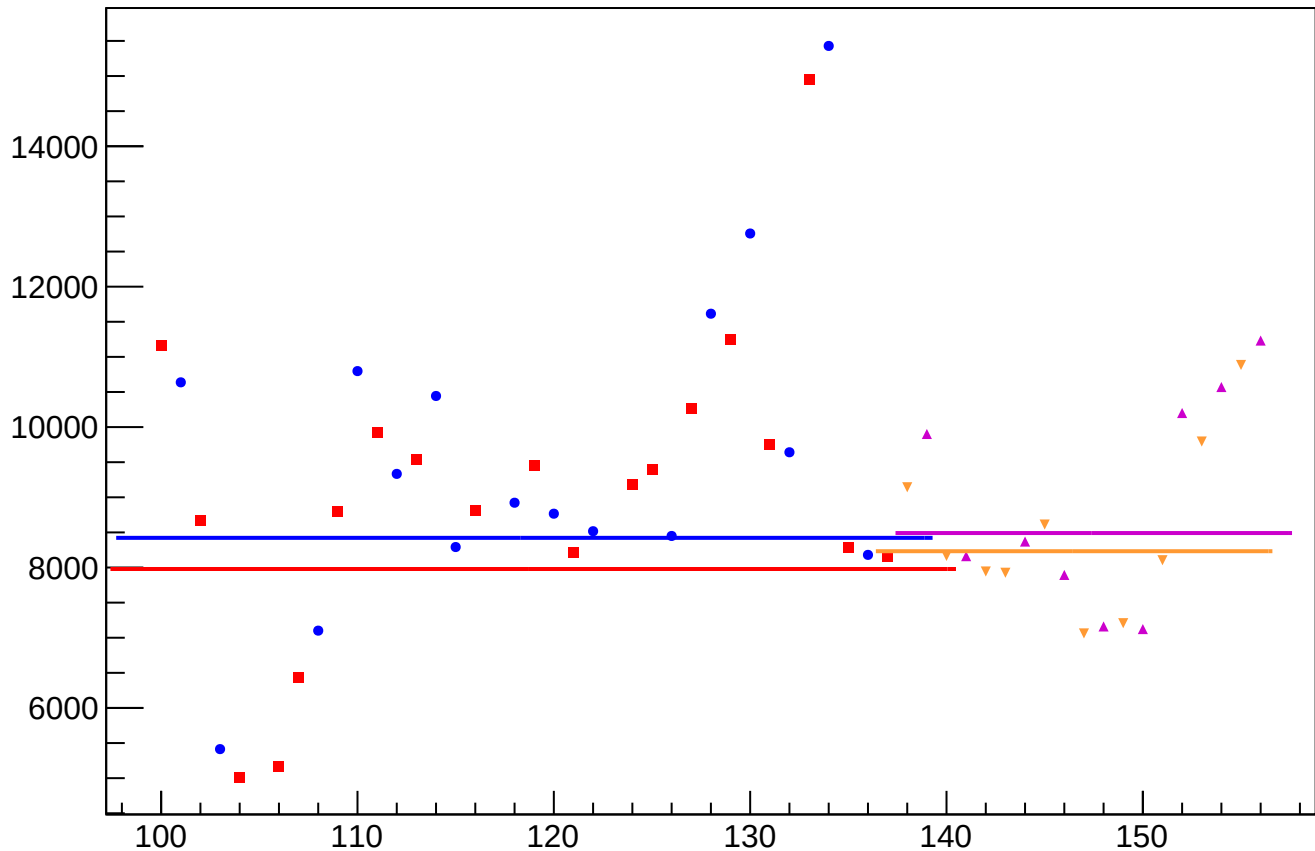
Right: 4663.718+/-2227.879 χ^2/NDF : 29.5/34

In: 4128.595+/-2231.438 χ^2/NDF : 20.7/24

Out: -755.876+/-2135.186 χ^2/NDF : 25.7/28

All: 1578.745+/-1542.710 χ^2/NDF : 48.9/53

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8422.717 $\pm$ 2.291 χ^2/NDF : 881833.9/15

Left Out: 8232.210 $\pm$ 2.102 χ^2/NDF : 241315.1/9

Right Out: 7978.997 $\pm$ 2.170 χ^2/NDF : 1016019.0/18

Left In: 8491.020 $\pm$ 2.176 χ^2/NDF : 385294.0/8

Left: 8357.120 $\pm$ 1.512 χ^2/NDF : 633924.9/18

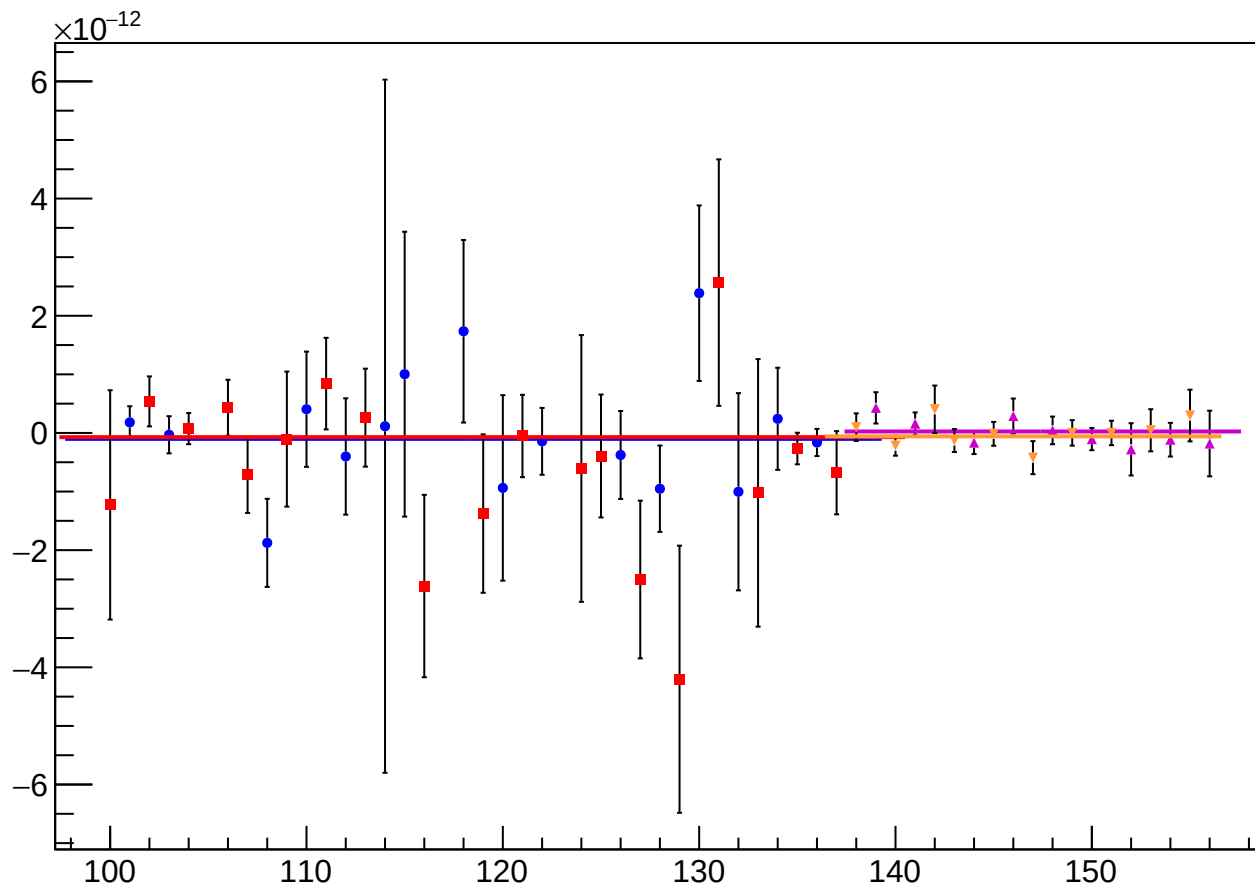
Right: 8188.830 $\pm$ 1.575 χ^2/NDF : 1917628.8/34

In: 8458.616 $\pm$ 1.578 χ^2/NDF : 1267595.1/24

Out: 8109.615 $\pm$ 1.510 χ^2/NDF : 1264359.1/28

All: 8276.425 $\pm$ 1.091 χ^2/NDF : 2557493.8/53

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 : 5.3/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 19.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 5.8/8

Left: -0.000 ± 0.000 χ^2/NDF : 11.7/18

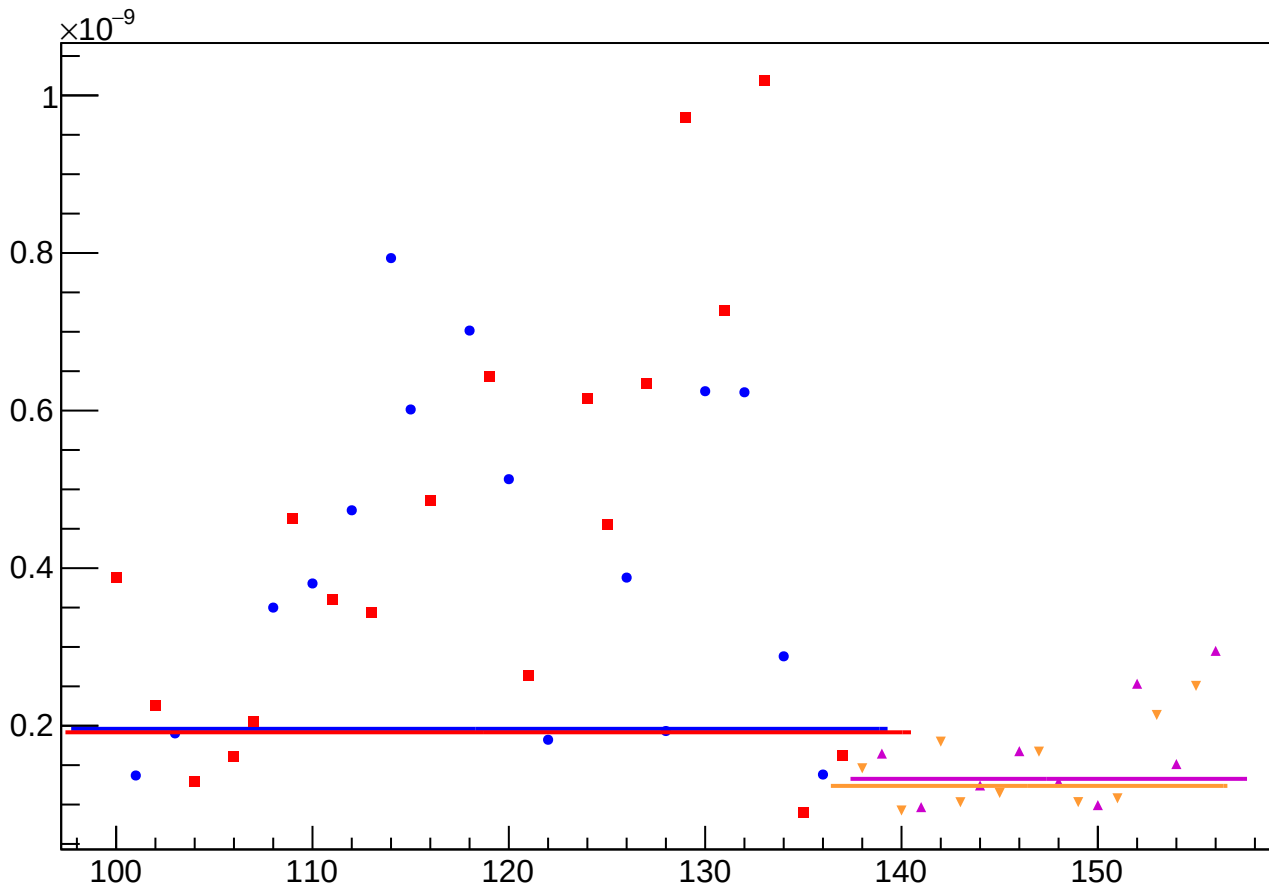
Right: -0.000 ± 0.000 χ^2/NDF : 33.3/34

In: -0.000 ± 0.000 χ^2/NDF : 20.1/24

Out: -0.000 ± 0.000 χ^2/NDF : 25.0/28

All: -0.000 ± 0.000 χ^2/NDF : 45.3/53

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 : 517942.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2066454.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 516102.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1046788.9/18

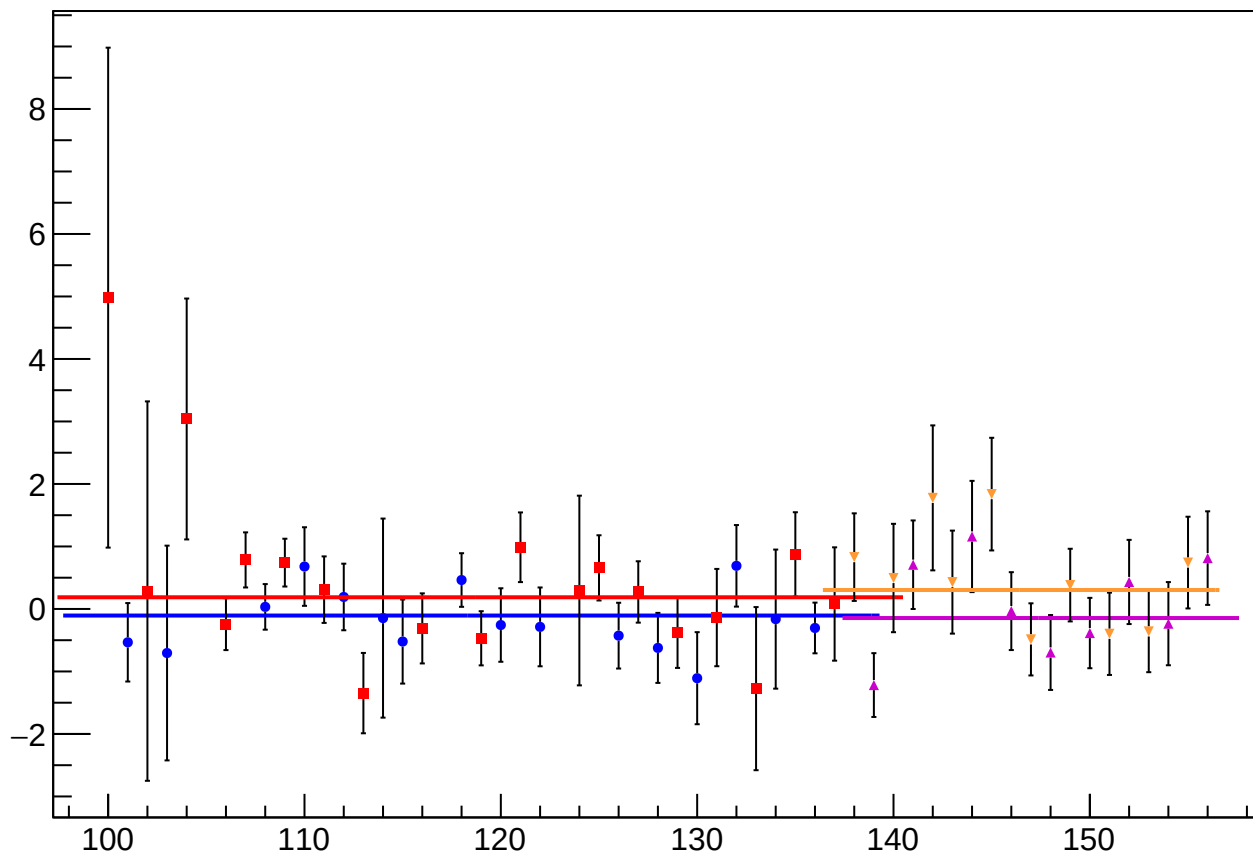
Right: 0.000+/-0.000 χ^2/NDF : 3409753.0/34

In: 0.000+/-0.000 χ^2/NDF : 2181517.4/24

Out: 0.000+/-0.000 χ^2/NDF : 2954070.6/28

All: 0.000+/-0.000 χ^2/NDF : 5162652.5/53

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: 0.303 ± 0.228 χ^2/NDF : 9.6/9

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.145 ± 0.214 χ^2/NDF : 11.5/8

Left: 0.065 ± 0.156 χ^2/NDF : 23.1/18

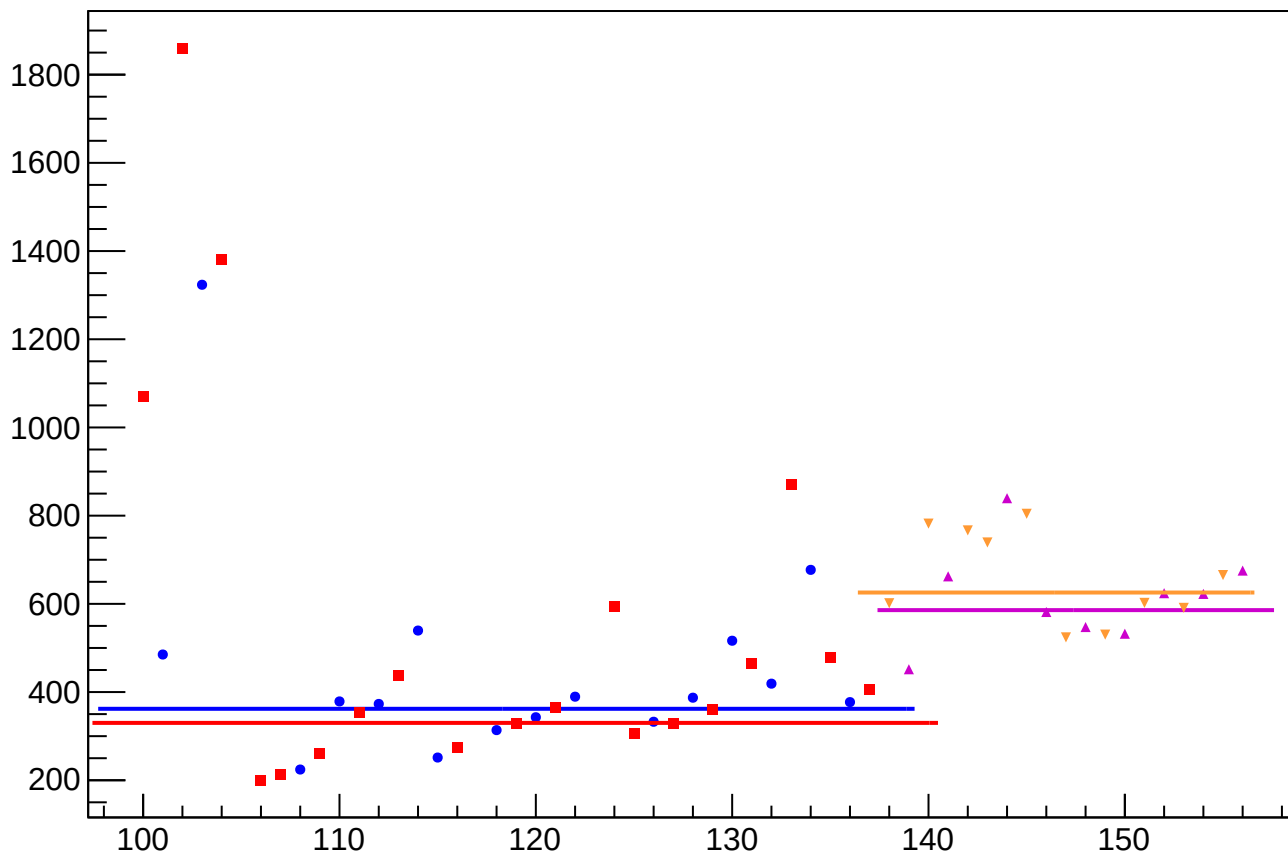
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.118 ± 0.120 χ^2/NDF : 21.2/24

Out: 0.218 ± 0.118 χ^2/NDF : 33.6/28

All: 0.053 ± 0.084 χ^2/NDF : 58.8/53

asym_atr2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.037 ± 0.102 $\chi^2/\text{NDF}: 1377330.2/15$

Left Out: 625.701 ± 0.161 $\chi^2/\text{NDF}: 343392.1/9$

Right Out: 330.084 ± 0.097 $\chi^2/\text{NDF}: 2246513.0/18$

Left In: 585.789 ± 0.151 $\chi^2/\text{NDF}: 391641.2/8$

Left: 604.496 ± 0.110 $\chi^2/\text{NDF}: 767676.9/18$

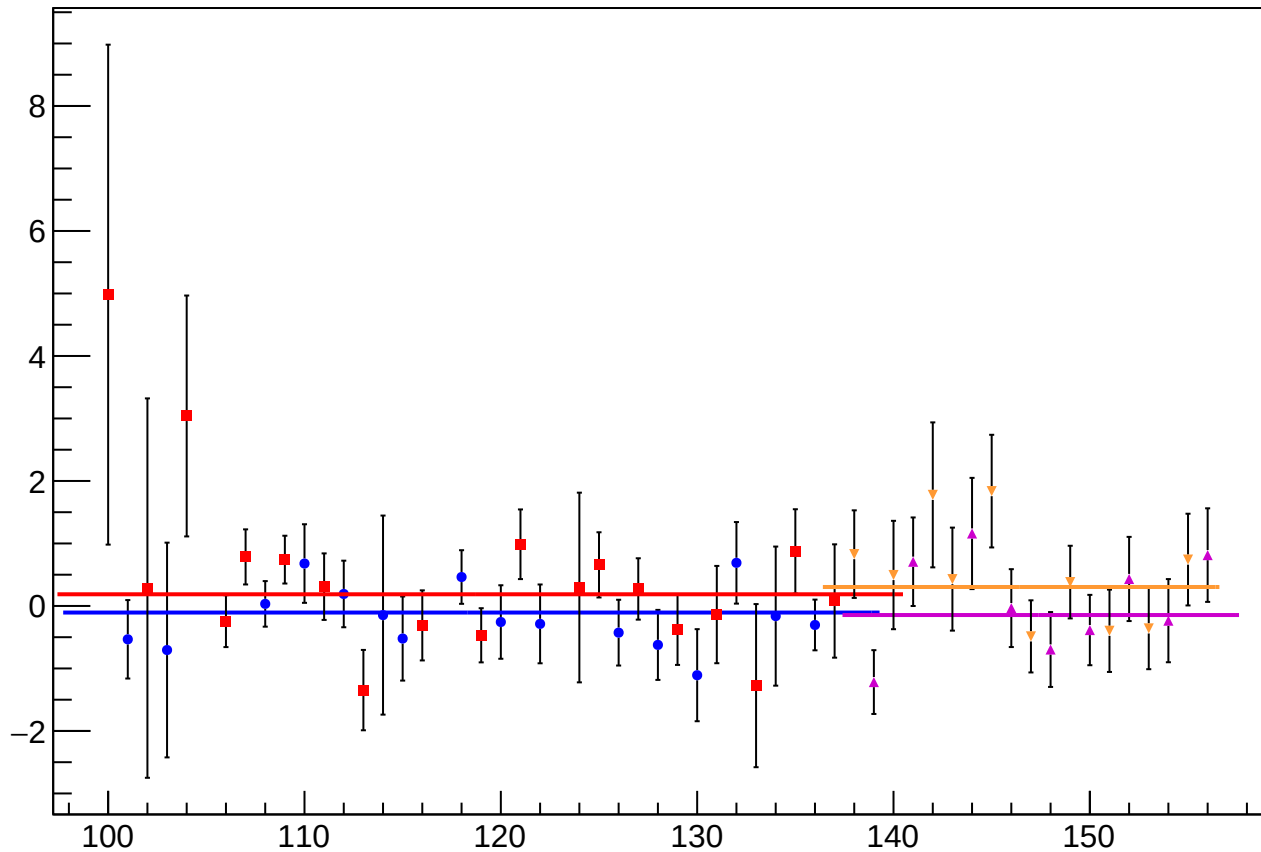
Right: 345.237 ± 0.070 $\chi^2/\text{NDF}: 3675129.8/34$

In: 432.283 ± 0.085 $\chi^2/\text{NDF}: 3270640.2/24$

Out: 408.996 ± 0.083 $\chi^2/\text{NDF}: 5060802.4/28$

All: 420.425 ± 0.059 $\chi^2/\text{NDF}: 8369898.9/53$

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: 0.303 ± 0.228 χ^2/NDF : 9.6/9

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.145 ± 0.214 χ^2/NDF : 11.5/8

Left: 0.065 ± 0.156 χ^2/NDF : 23.1/18

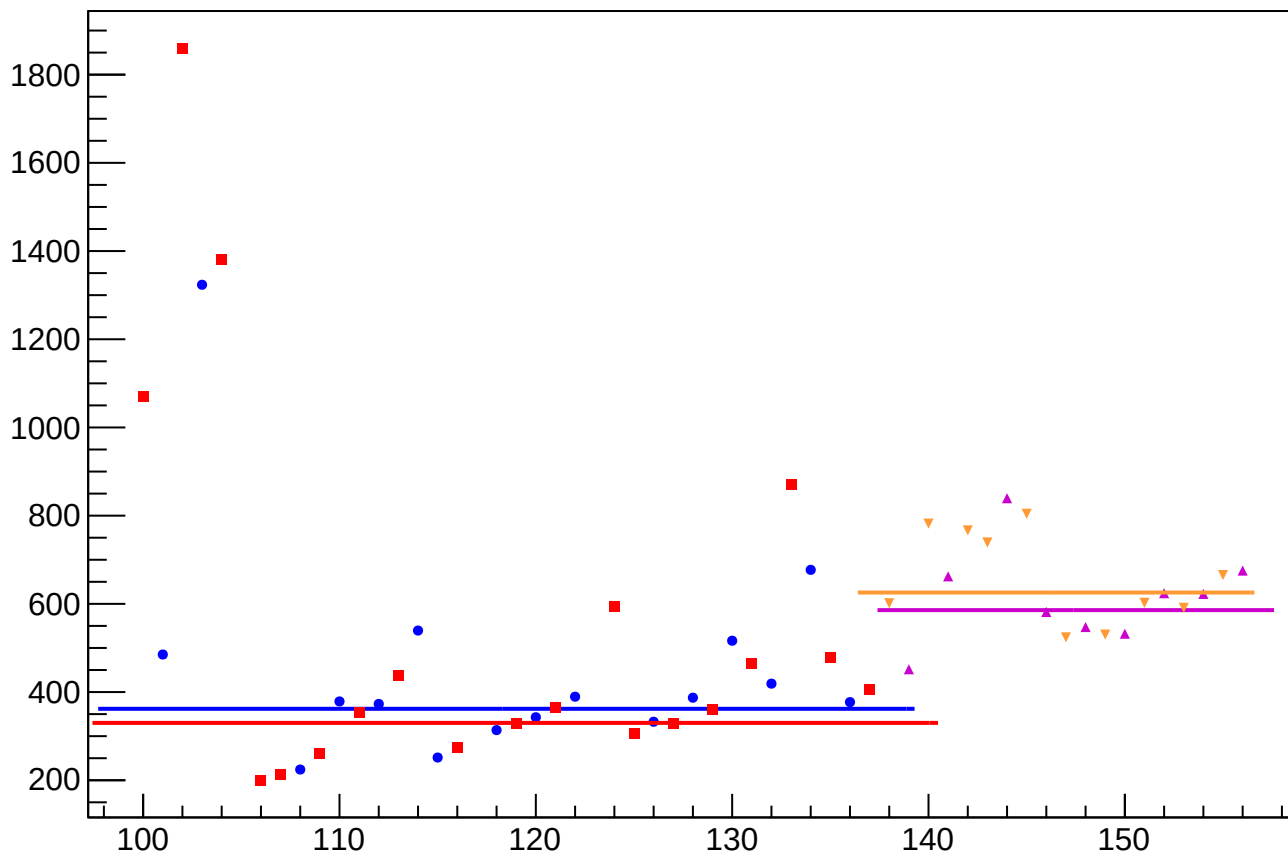
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.118 ± 0.120 χ^2/NDF : 21.2/24

Out: 0.218 ± 0.118 χ^2/NDF : 33.6/28

All: 0.053 ± 0.084 χ^2/NDF : 58.8/53

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: 625.701+/-0.161 χ^2/NDF : 343392.1/9

Right Out: 330.084+/-0.097 χ^2/NDF : 2246513.0/18

Left In: 585.789+/-0.151 χ^2/NDF : 391641.2/8

Left: 604.496+/-0.110 χ^2/NDF : 767676.9/18

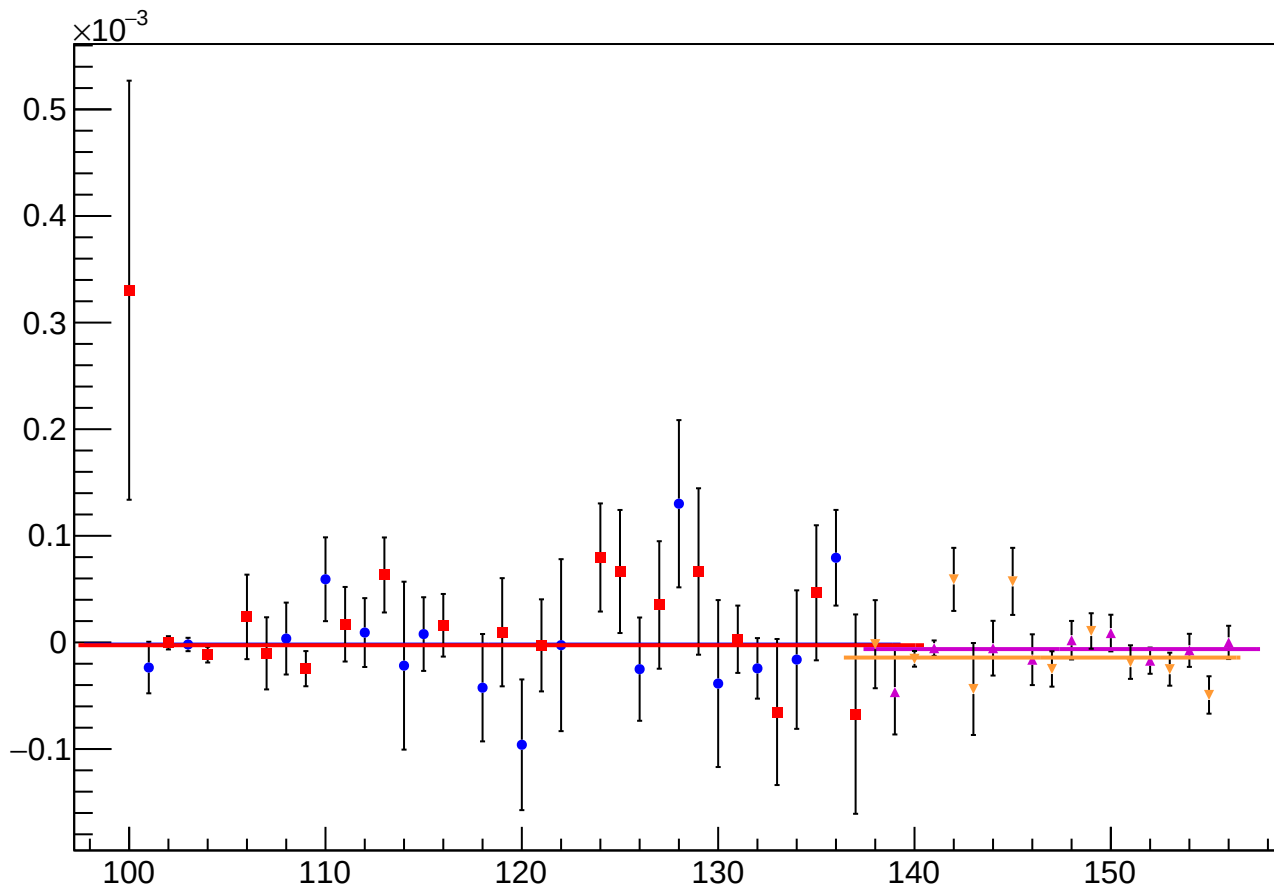
Right: 345.237+/-0.070 χ^2/NDF : 3675129.8/34

In: 432.283+/-0.085 χ^2/NDF : 3270640.2/24

Out: 408.996+/-0.083 χ^2/NDF : 5060802.4/28

All: 420.425+/-0.059 χ^2/NDF : 8369898.9/53

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 : 19.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.1/8

Left: -0.000+/-0.000 χ^2/NDF : 23.6/18

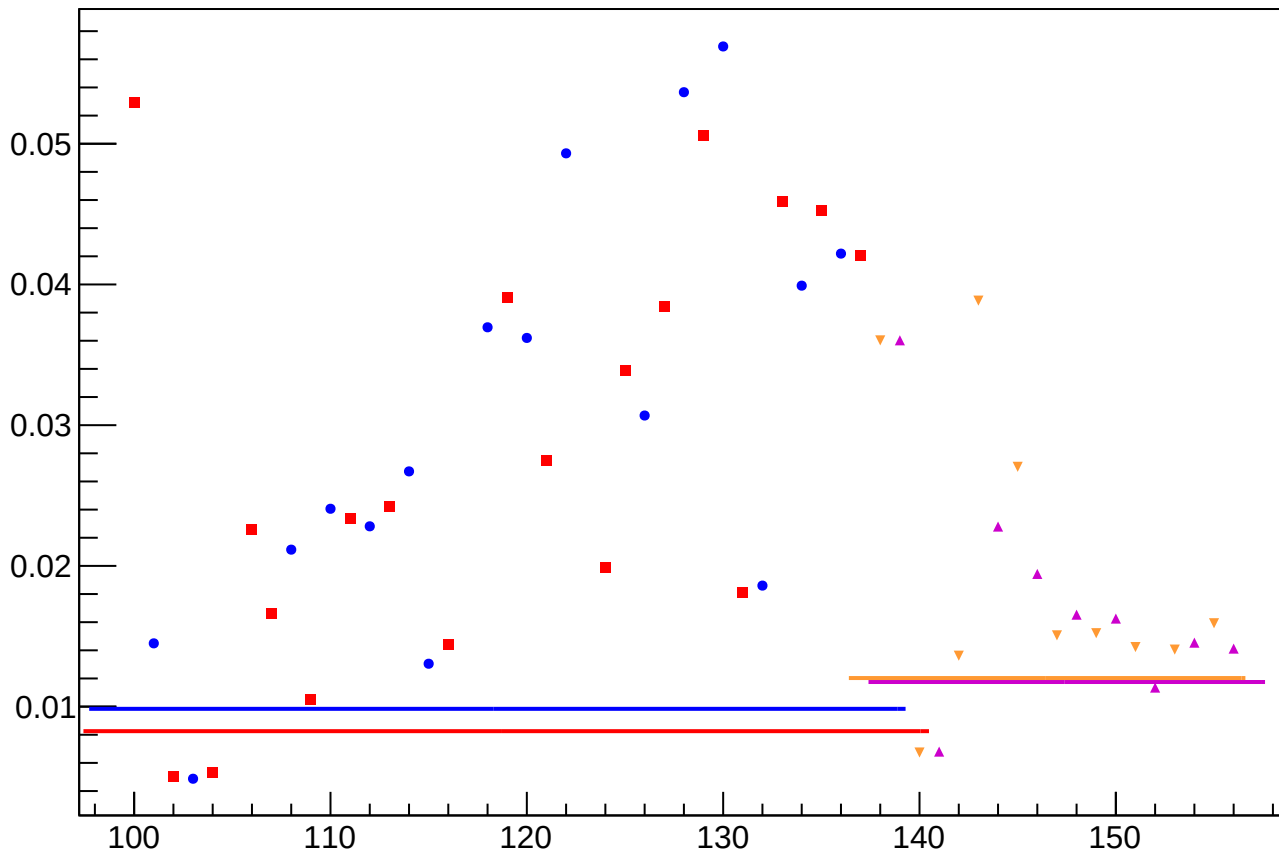
Right: -0.000+/-0.000 χ^2/NDF : 32.0/34

In: -0.000+/-0.000 χ^2/NDF : 17.2/24

Out: -0.000+/-0.000 χ^2/NDF : 40.5/28

All: -0.000+/-0.000 χ^2/NDF : 58.1/53

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: 0.012+/-0.000 χ^2/NDF : 3257662.0/9

Right Out: 0.008+/-0.000 χ^2/NDF : 6740964.7/18

Left In: 0.012+/-0.000 χ^2/NDF : 2648090.8/8

Left: 0.012+/-0.000 χ^2/NDF : 5909103.7/18

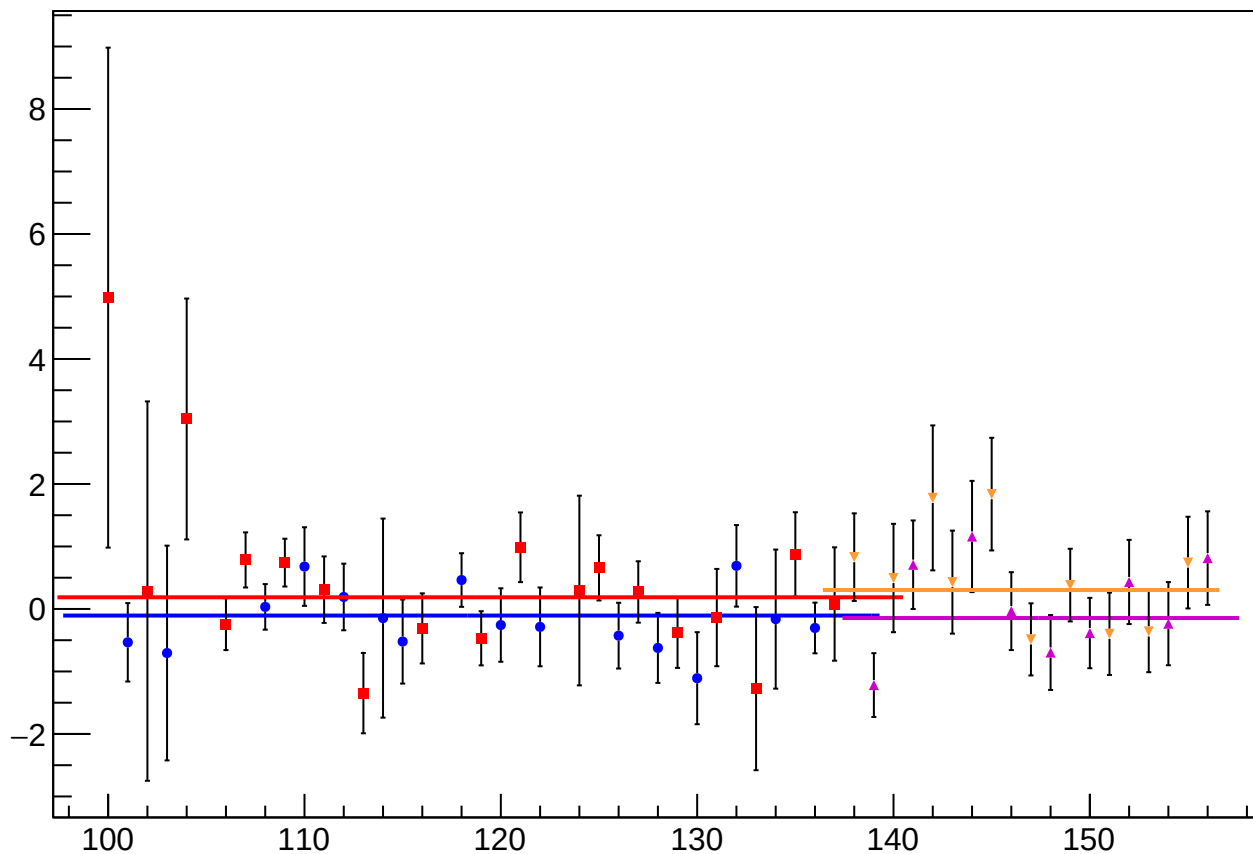
Right: 0.009+/-0.000 χ^2/NDF : 13900238.9/34

In: 0.011+/-0.000 χ^2/NDF : 9840786.6/24

Out: 0.010+/-0.000 χ^2/NDF : 10668241.0/28

All: 0.010+/-0.000 χ^2/NDF : 20609742.0/53

asym_atr2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 $\chi^2/\text{NDF}: 9.7/15$

Left Out: 0.303 ± 0.228 $\chi^2/\text{NDF}: 9.6/9$

Right Out: 0.187 ± 0.137 $\chi^2/\text{NDF}: 23.9/18$

Left In: -0.145 ± 0.214 $\chi^2/\text{NDF}: 11.5/8$

Left: 0.065 ± 0.156 $\chi^2/\text{NDF}: 23.1/18$

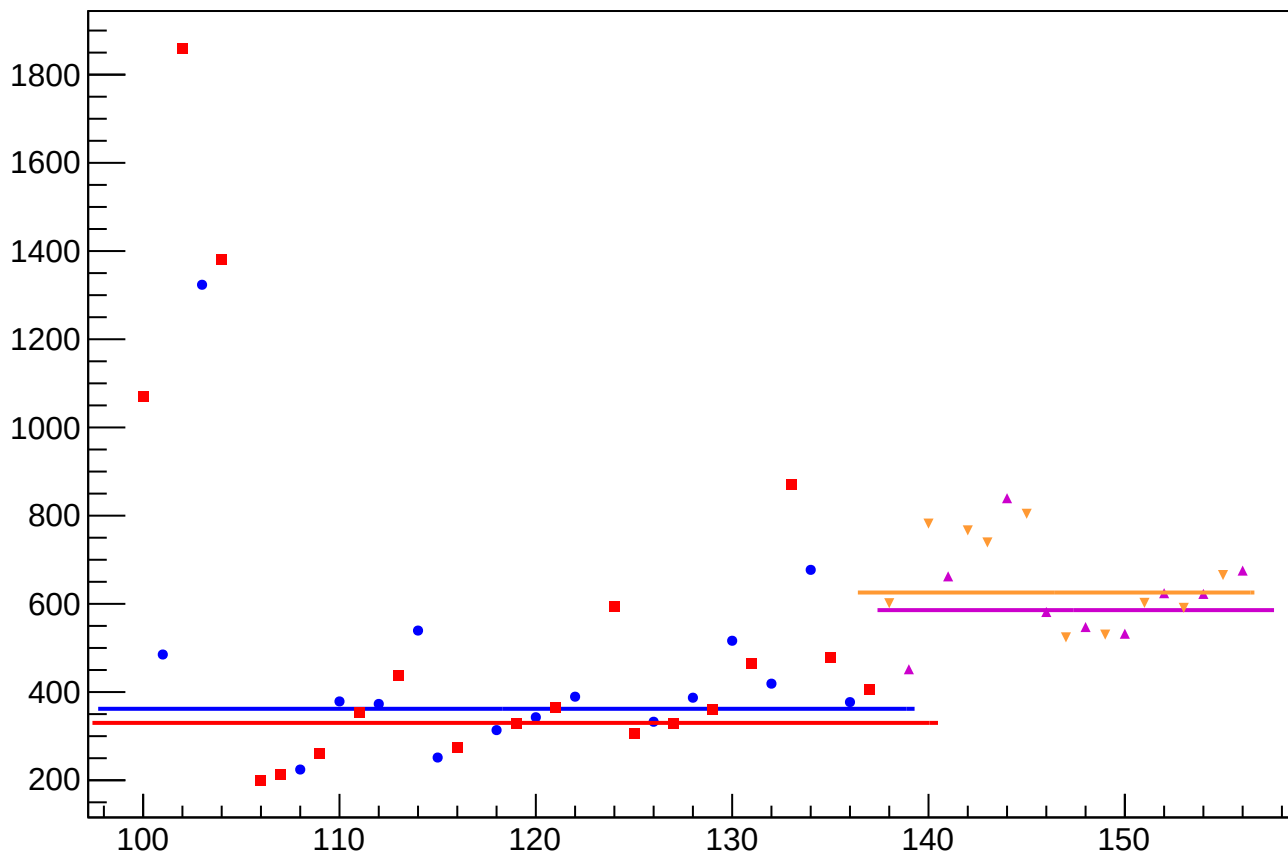
Right: 0.048 ± 0.100 $\chi^2/\text{NDF}: 35.7/34$

In: -0.118 ± 0.120 $\chi^2/\text{NDF}: 21.2/24$

Out: 0.218 ± 0.118 $\chi^2/\text{NDF}: 33.6/28$

All: 0.053 ± 0.084 $\chi^2/\text{NDF}: 58.8/53$

asym_atr2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.034 ± 0.102 $\chi^2/\text{NDF}: 1377333.3/15$

Left Out: 625.709 ± 0.161 $\chi^2/\text{NDF}: 343378.7/9$

Right Out: 330.082 ± 0.097 $\chi^2/\text{NDF}: 2246503.8/18$

Left In: 585.796 ± 0.151 $\chi^2/\text{NDF}: 391614.9/8$

Left: 604.503 ± 0.110 $\chi^2/\text{NDF}: 767637.2/18$

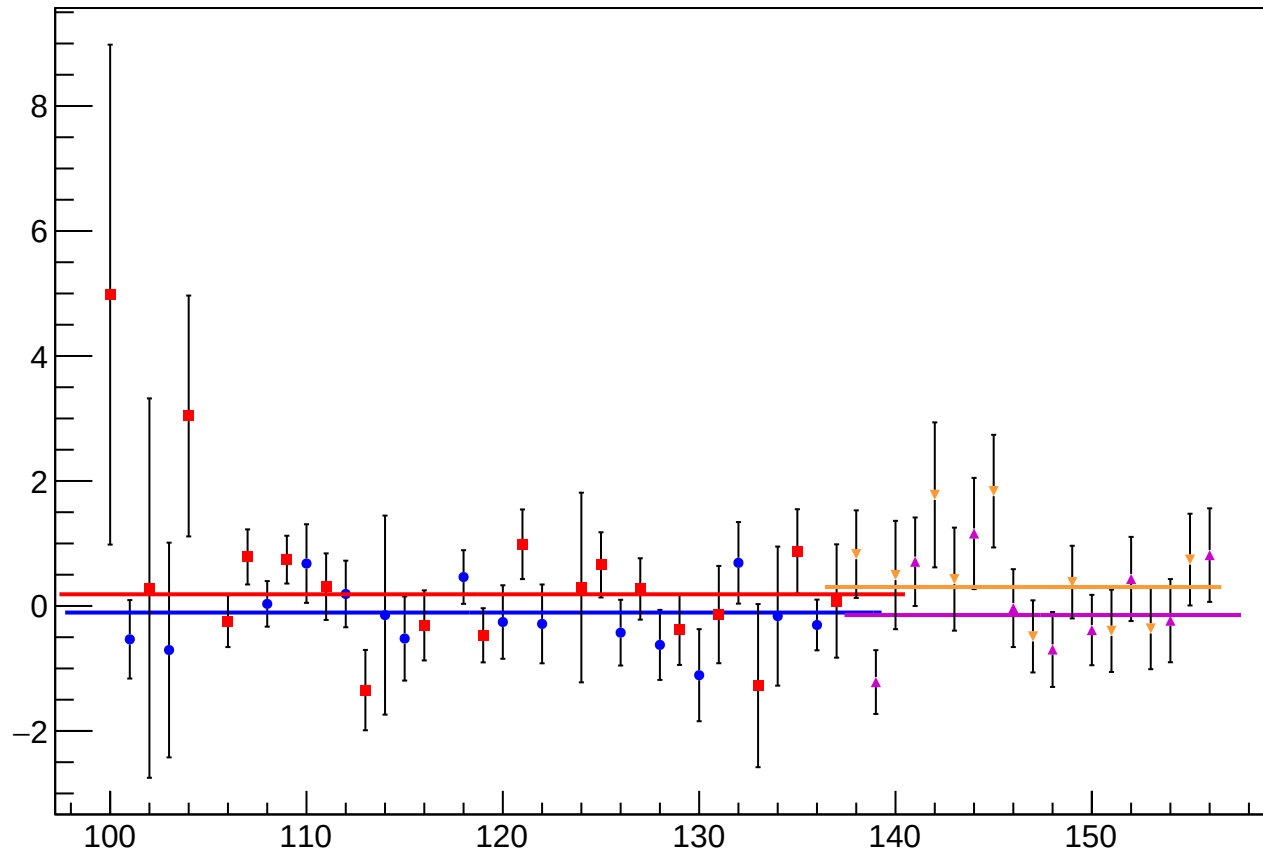
Right: 345.235 ± 0.070 $\chi^2/\text{NDF}: 3675120.0/34$

In: 432.282 ± 0.085 $\chi^2/\text{NDF}: 3270732.8/24$

Out: 408.995 ± 0.083 $\chi^2/\text{NDF}: 5060893.1/28$

All: 420.424 ± 0.059 $\chi^2/\text{NDF}: 8370080.3/53$

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: 0.303 ± 0.228 χ^2/NDF : 9.6/9

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.145 ± 0.214 χ^2/NDF : 11.5/8

Left: 0.065 ± 0.156 χ^2/NDF : 23.1/18

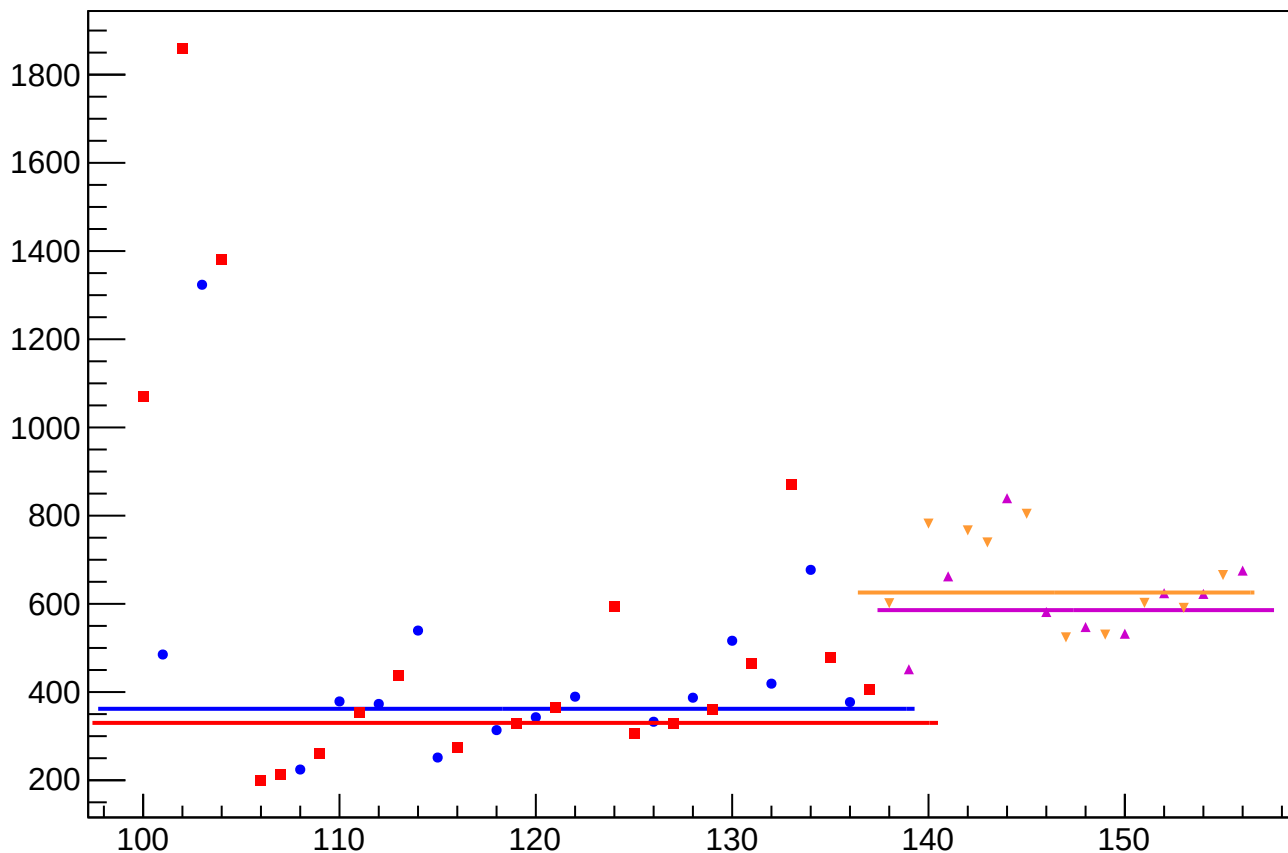
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.118 ± 0.120 χ^2/NDF : 21.2/24

Out: 0.218 ± 0.118 χ^2/NDF : 33.6/28

All: 0.053 ± 0.084 χ^2/NDF : 58.8/53

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: 625.709 ± 0.161 $\chi^2/\text{NDF}: 343378.7/9$

Right Out: 330.082 ± 0.097 $\chi^2/\text{NDF}: 2246503.8/18$

Left In: 585.796 ± 0.151 $\chi^2/\text{NDF}: 391614.9/8$

Left: 604.503 ± 0.110 $\chi^2/\text{NDF}: 767637.2/18$

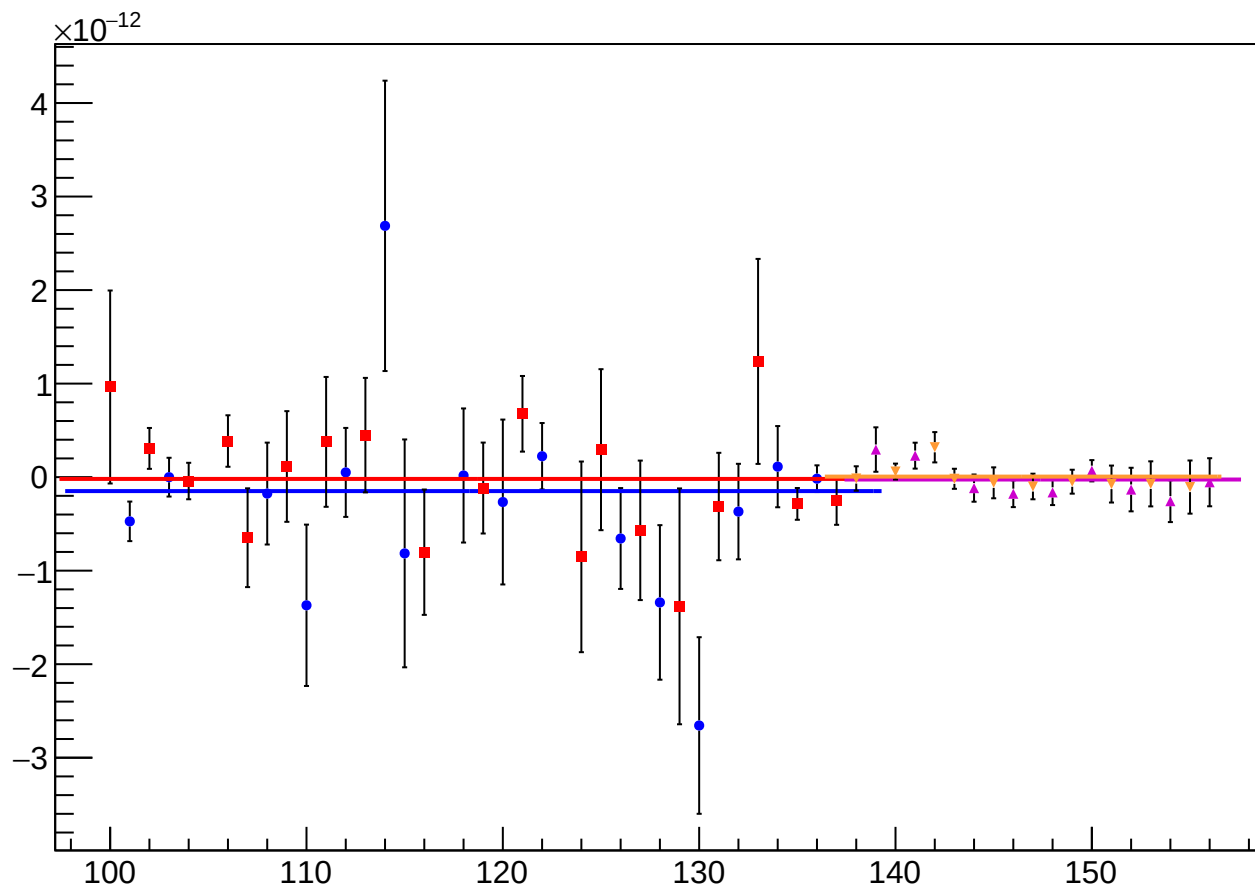
Right: 345.235 ± 0.070 $\chi^2/\text{NDF}: 3675120.0/34$

In: 432.282 ± 0.085 $\chi^2/\text{NDF}: 3270732.8/24$

Out: 408.995 ± 0.083 $\chi^2/\text{NDF}: 5060893.1/28$

All: 420.424 ± 0.059 $\chi^2/\text{NDF}: 8370080.3/53$

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 : 5.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 19.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.7/8

Left: -0.000+/-0.000 χ^2/NDF : 15.5/18

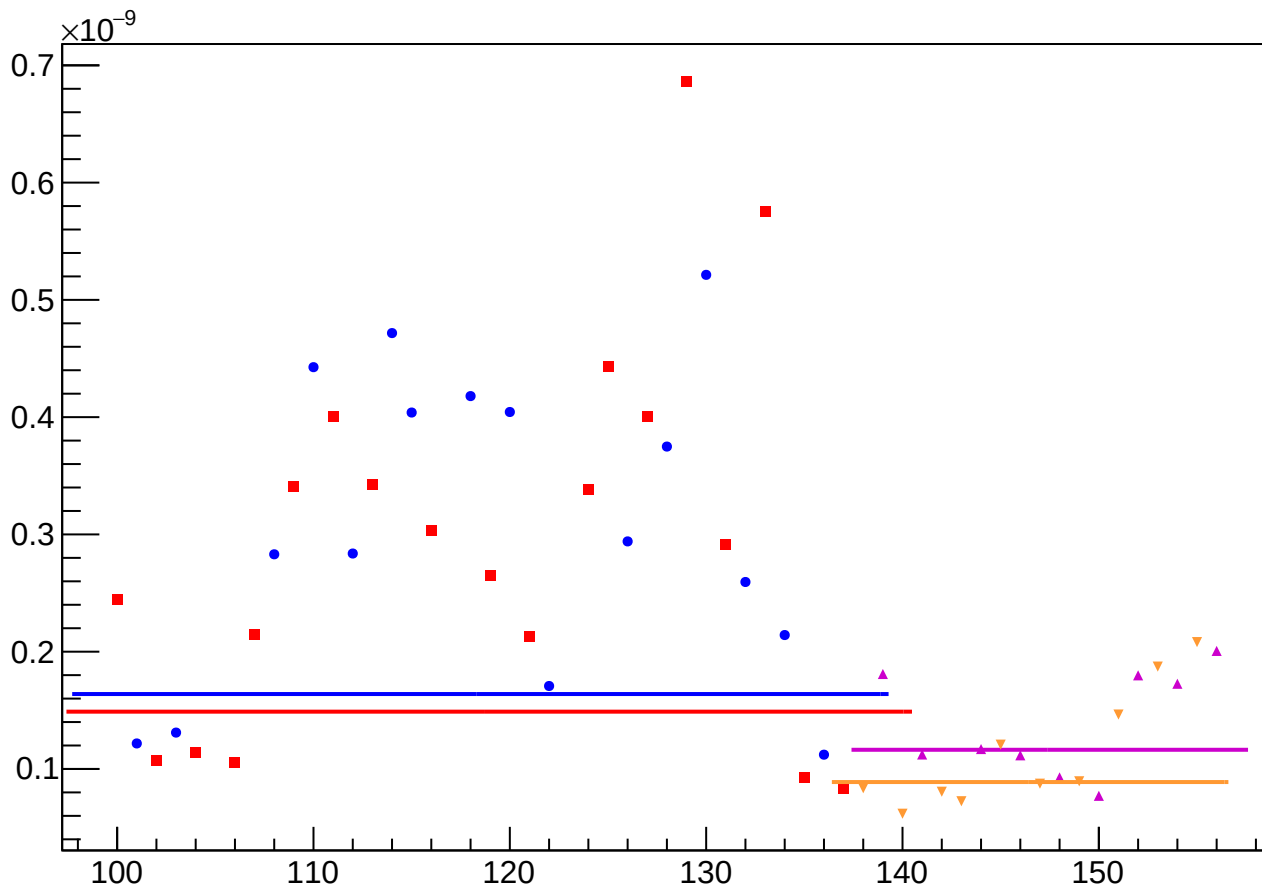
Right: -0.000+/-0.000 χ^2/NDF : 41.9/34

In: -0.000+/-0.000 χ^2/NDF : 32.5/24

Out: 0.000+/-0.000 χ^2/NDF : 25.1/28

All: -0.000+/-0.000 χ^2/NDF : 58.5/53

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 :1187918.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2846265.5/18

Left In: 0.000+/-0.000 χ^2/NDF :940097.8/8

Left: 0.000+/-0.000 χ^2/NDF : 2446969.6/18

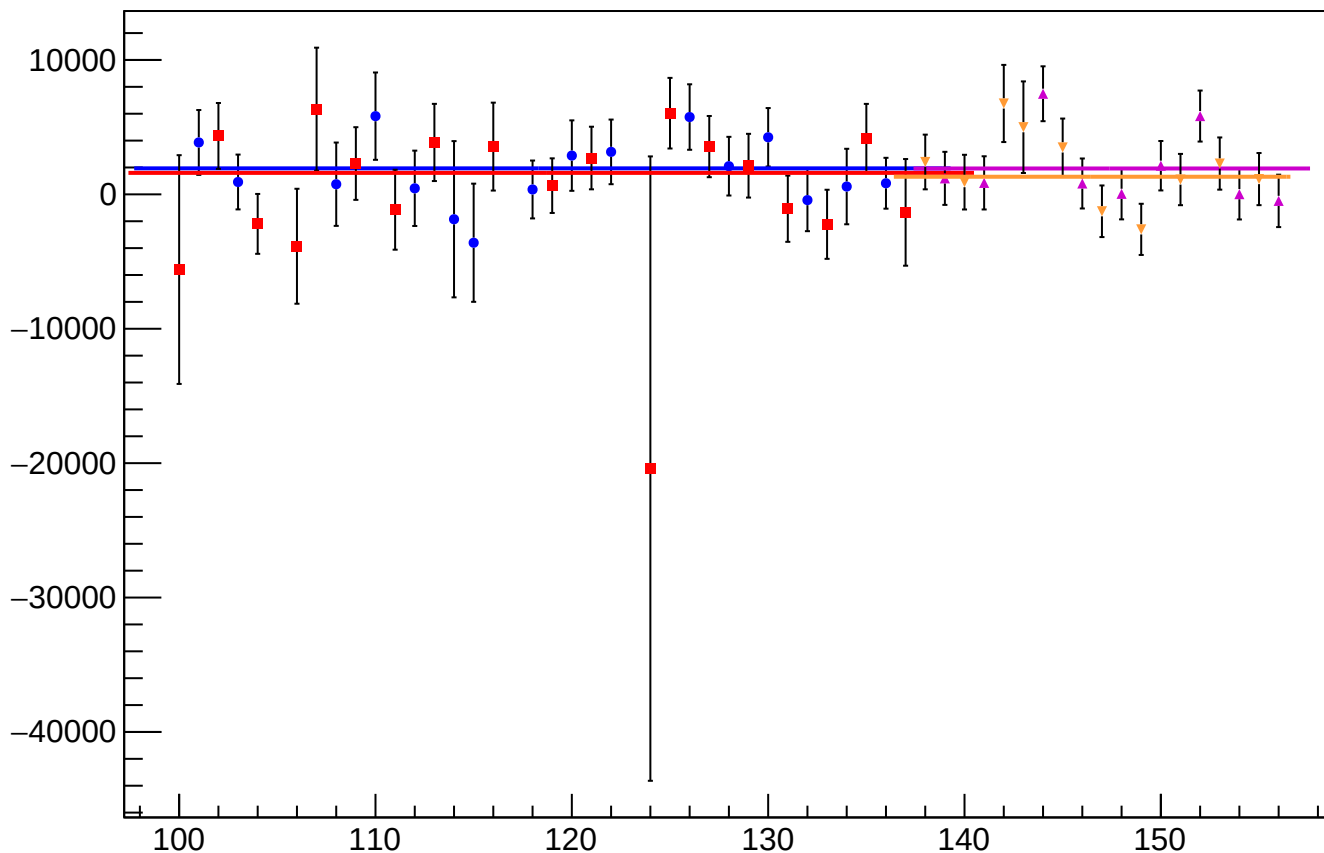
Right: 0.000+/-0.000 χ^2/NDF : 4888401.8/34

In: 0.000+/-0.000 χ^2/NDF :3382825.4/24

Out: 0.000+/-0.000 χ^2/NDF :4846319.7/28

All: 0.000+/-0.000 χ^2/NDF : 8657853.1/53

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.755+/-627.874 χ^2/NDF : 10.9/15

Left Out: 1310.333+/-665.196 χ^2/NDF :12.4/9

Right Out: 1597.959+/-642.207 χ^2/NDF : 19.4/18

Left In: 1925.199+/-640.774 χ^2/NDF :16.0/8

Left: 1629.260+/-461.488 χ^2/NDF : 28.9/18

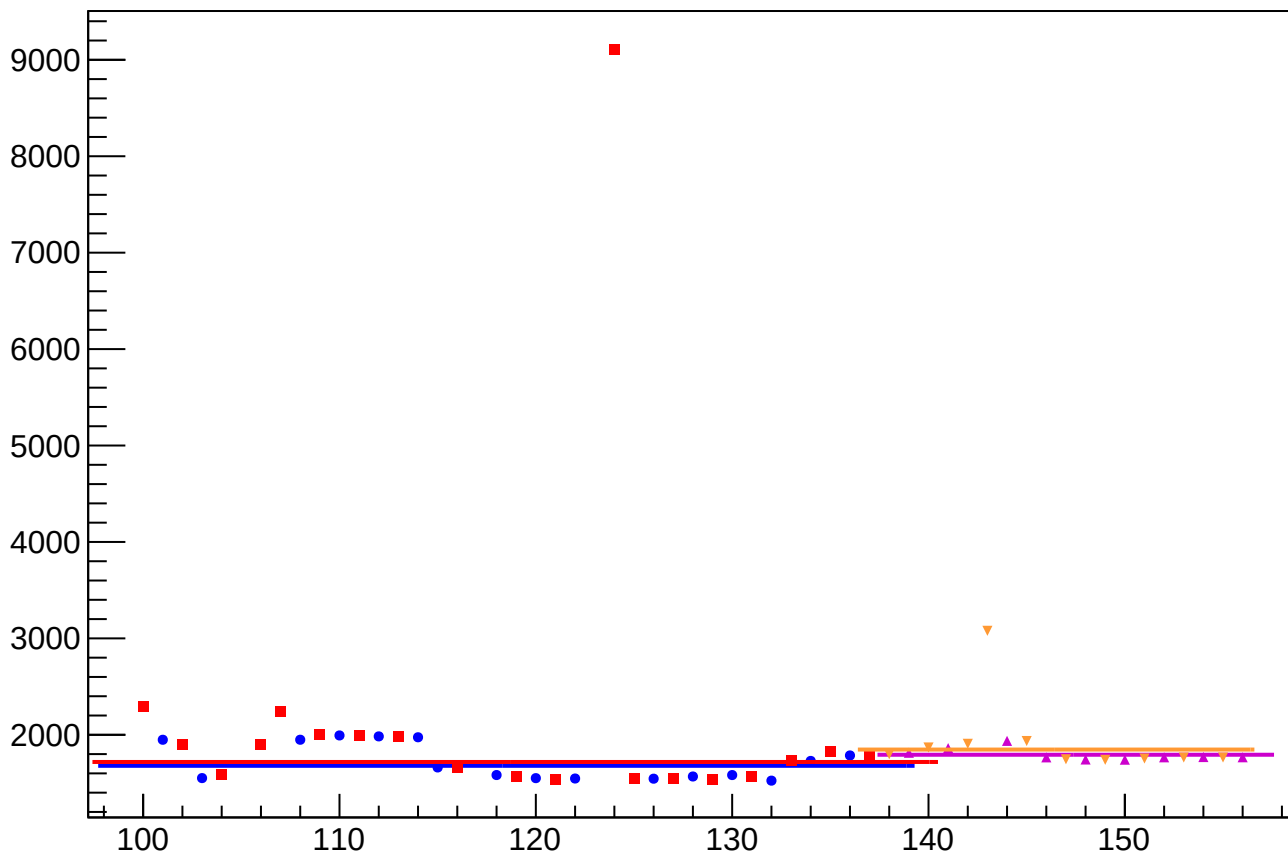
Right: 1770.157+/-448.956 χ^2/NDF : 30.4/34

In: 1930.074+/-448.465 χ^2/NDF :26.9/24

Out: 1459.202+/-462.022 χ^2/NDF :31.9/28

All: 1701.648+/-321.799 χ^2/NDF : 59.3/53

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.6/15

Left Out: 1847.027+/-0.470 χ^2/NDF : 290509.7/9

Right Out: 1718.312+/-0.452 χ^2/NDF : 383179.3/18

Left In: 1793.237+/-0.453 χ^2/NDF : 16956.8/8

Left: 1819.126+/-0.326 χ^2/NDF : 314249.9/18

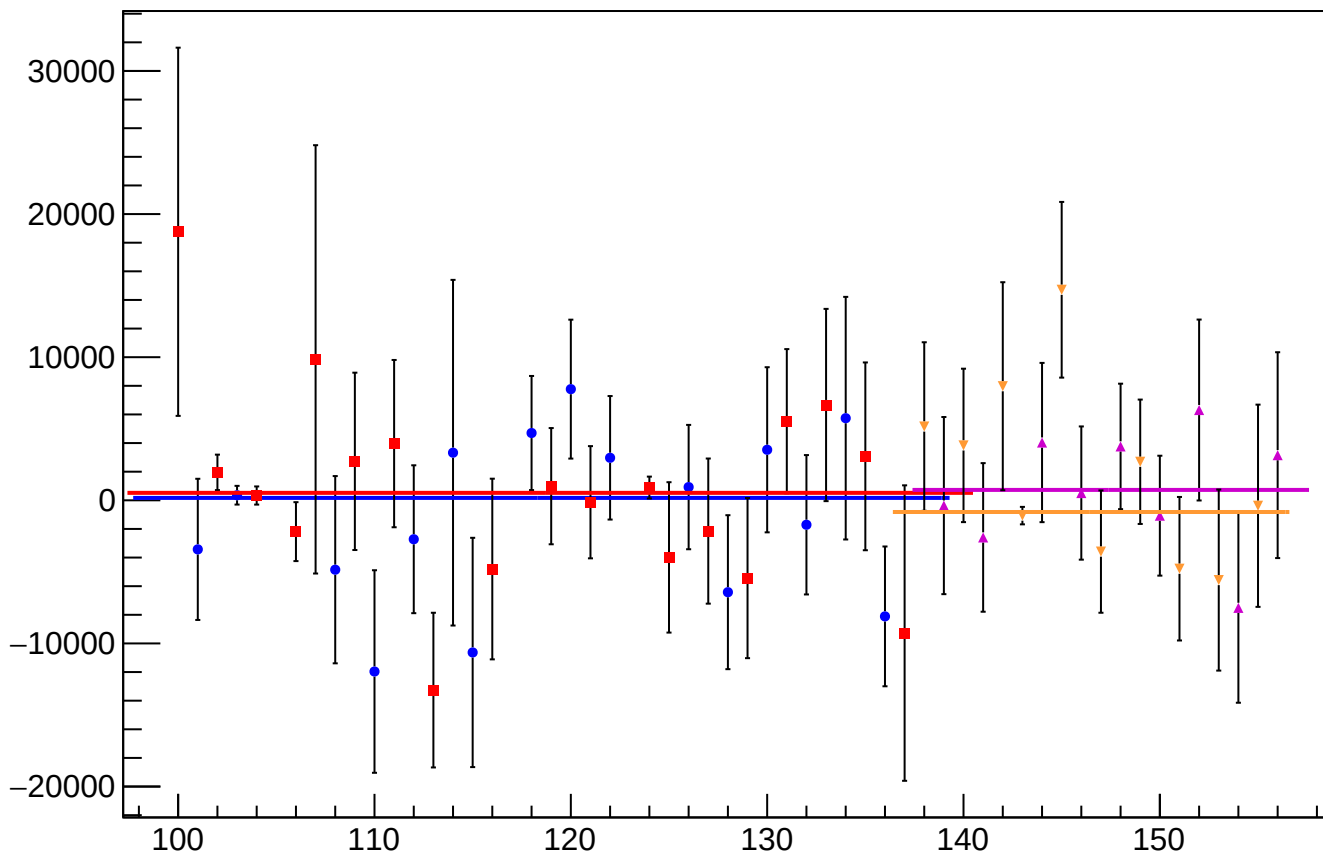
Right: 1698.073+/-0.317 χ^2/NDF : 528602.3/34

In: 1734.724+/-0.317 χ^2/NDF : 191129.4/24

Out: 1780.103+/-0.326 χ^2/NDF : 712624.4/28

All: 1756.793+/-0.227 χ^2/NDF : 913712.9/53

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: -816.560 $\pm$ 578.734 χ^2 /NDF:12.1/9

Right Out: 521.080 $\pm$ 424.783 χ^2 /NDF: 18.5/18

Left In: 726.564 $\pm$ 1773.815 χ^2 /NDF:3.9/8

Left: -668.099 $\pm$ 550.191 χ^2 /NDF: 16.7/18

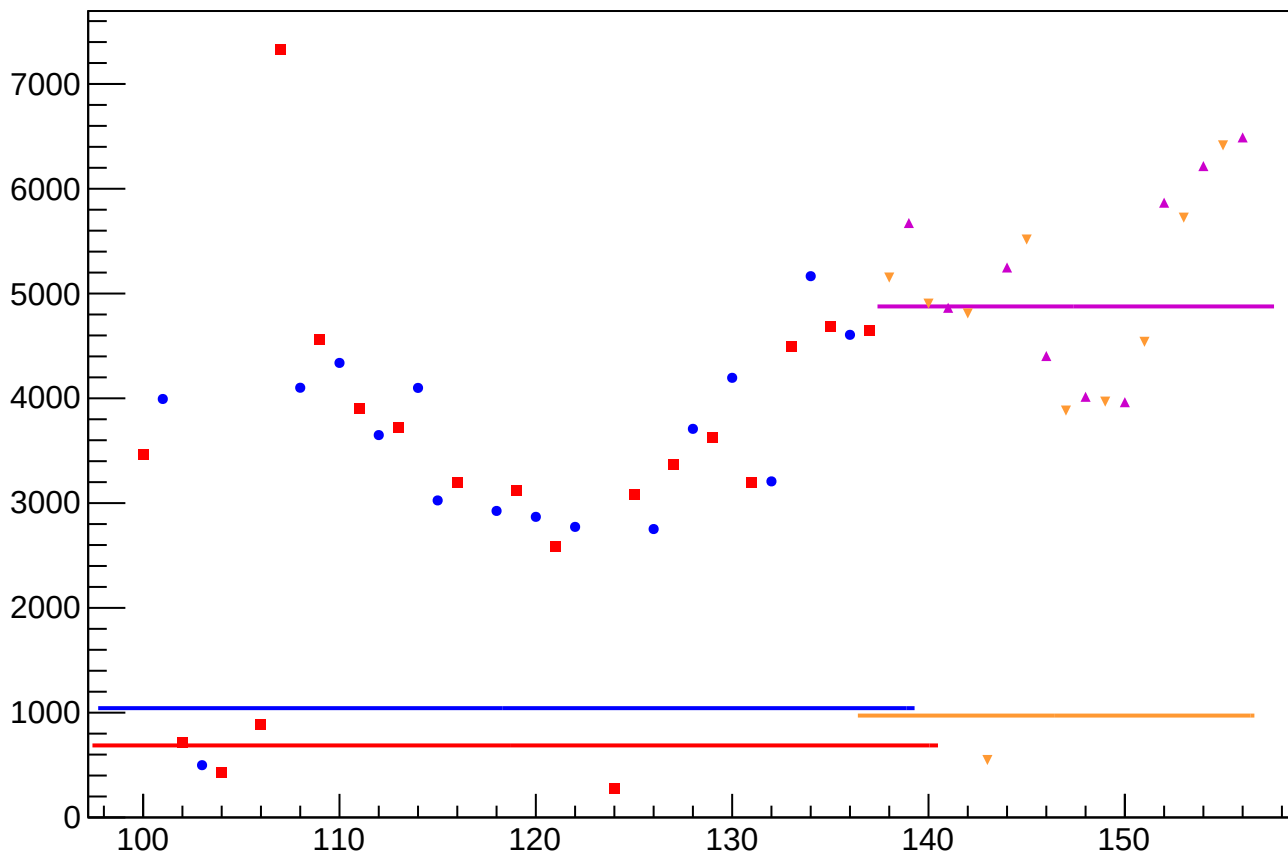
Right: 401.068 $\pm$ 345.050 χ^2 /NDF: 34.6/34

In: 224.168 $\pm$ 561.216 χ^2 /NDF:19.8/24

Out: 52.752 $\pm$ 342.440 χ^2 /NDF:34.1/28

All: 99.258 $\pm$ 292.320 χ^2 /NDF: 54.0/53

asym_atl_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1043.117+/-0.418

χ^2/NDF : 8111897.6/15

Left Out: 972.320+/-0.409

χ^2/NDF : 9909275.1/9

Right Out: 687.329+/-0.300

χ^2/NDF : 8631529.6/18

Left In: 4876.890+/-1.254

χ^2/NDF : 466617.1/8

Left: 1347.970+/-0.389

χ^2/NDF : 19134361.7/18

Right: 808.358+/-0.244

χ^2/NDF : 17220710.7/34

In: 1426.885+/-0.397

χ^2/NDF : 16985866.9/24

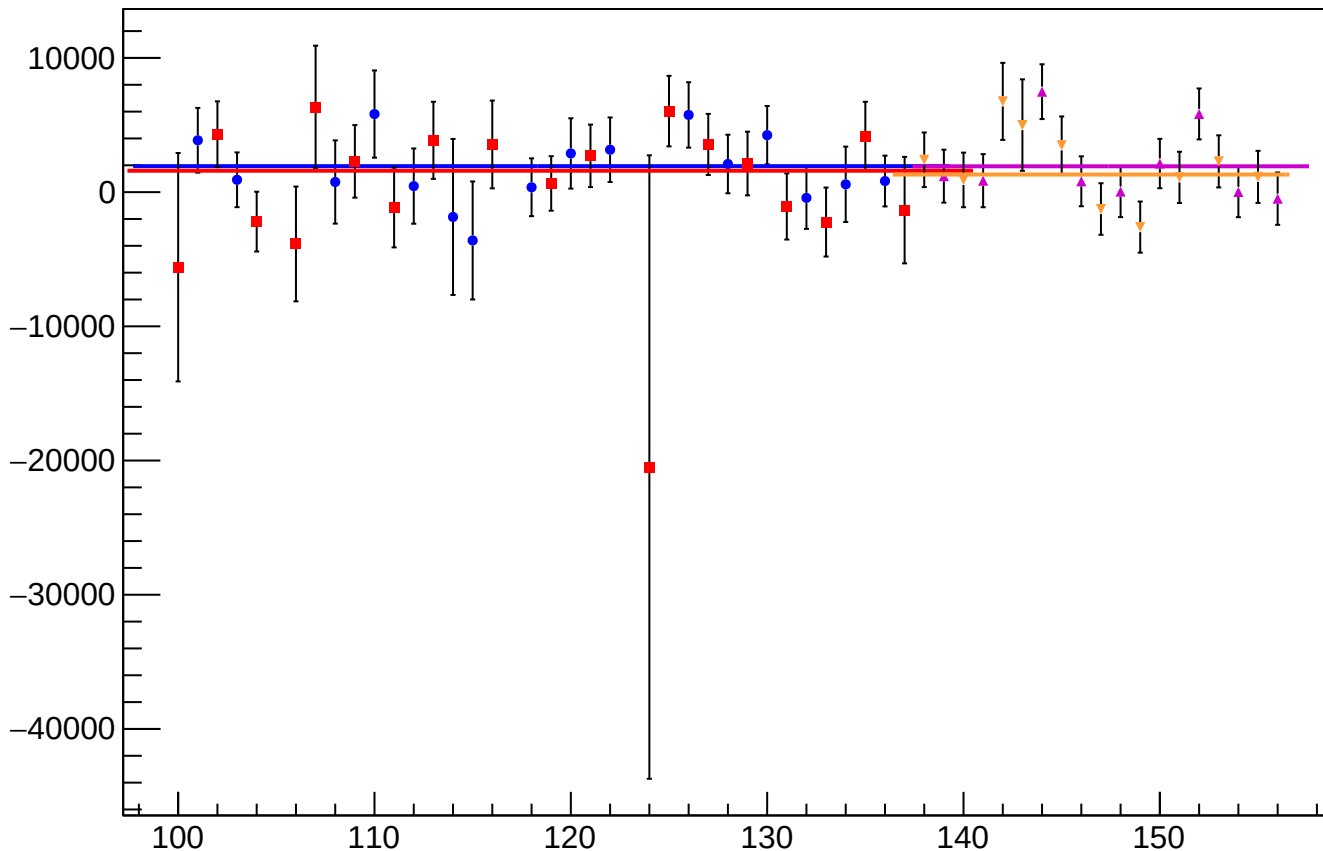
Out: 787.109+/-0.242

χ^2/NDF : 18855991.6/28

All: 960.683+/-0.207

χ^2/NDF : 37735829.2/53

cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871+/-627.874 χ^2/NDF : 10.9/15

Left Out: 1310.293+/-665.196 χ^2/NDF :12.4/9

Right Out: 1595.521+/-642.212 χ^2/NDF : 19.4/18

Left In: 1925.402+/-640.774 χ^2/NDF :16.0/8

Left: 1629.346+/-461.488 χ^2/NDF : 28.9/18

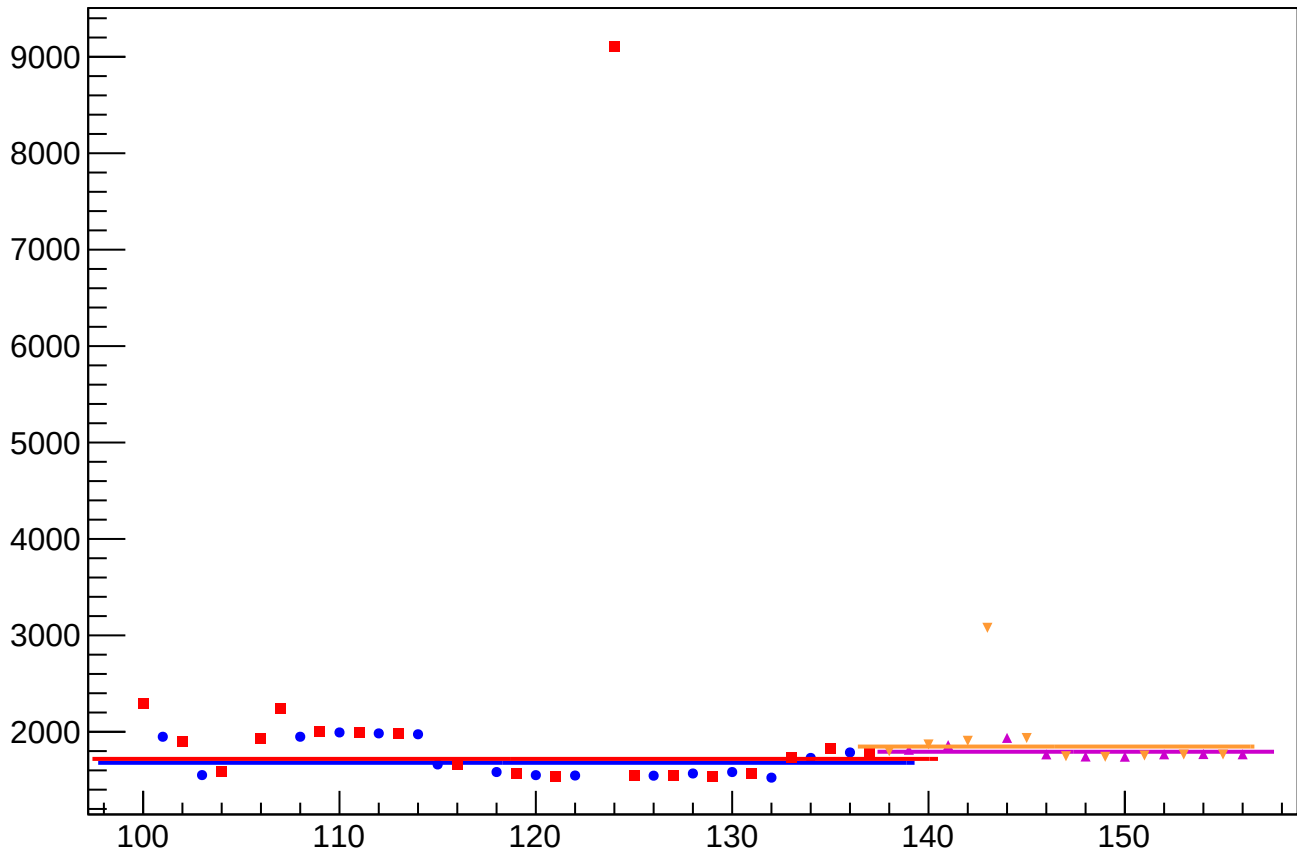
Right: 1769.026+/-448.957 χ^2/NDF : 30.4/34

In: 1930.233+/-448.465 χ^2/NDF :26.9/24

Out: 1457.920+/-462.024 χ^2/NDF :31.9/28

All: 1701.108+/-321.800 χ^2/NDF : 59.3/53

cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.7/15

Left Out: 1847.027+/-0.470 χ^2/NDF : 290509.7/9

Right Out: 1719.146+/-0.452 χ^2/NDF : 384922.3/18

Left In: 1793.237+/-0.453 χ^2/NDF : 16956.8/8

Left: 1819.126+/-0.326 χ^2/NDF : 314249.9/18

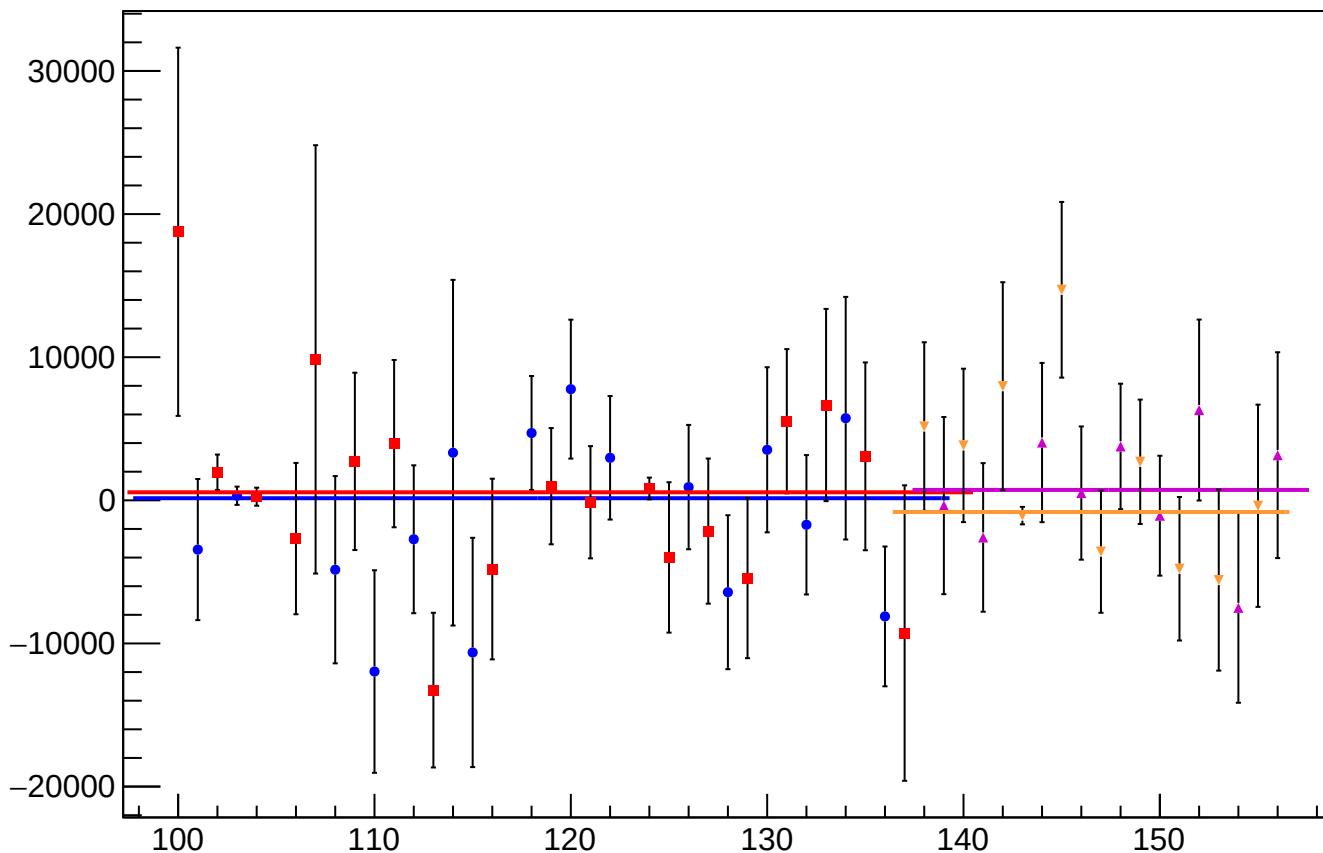
Right: 1698.473+/-0.317 χ^2/NDF : 530510.4/34

In: 1734.724+/-0.317 χ^2/NDF : 191129.6/24

Out: 1780.568+/-0.326 χ^2/NDF : 713846.1/28

All: 1757.014+/-0.227 χ^2/NDF : 915137.4/53

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: -816.214 $\pm$ 578.713 χ^2 /NDF:12.1/9

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: 726.704 $\pm$ 1773.813 χ^2 /NDF:3.9/8

Left: -667.783 $\pm$ 550.173 χ^2 /NDF: 16.7/18

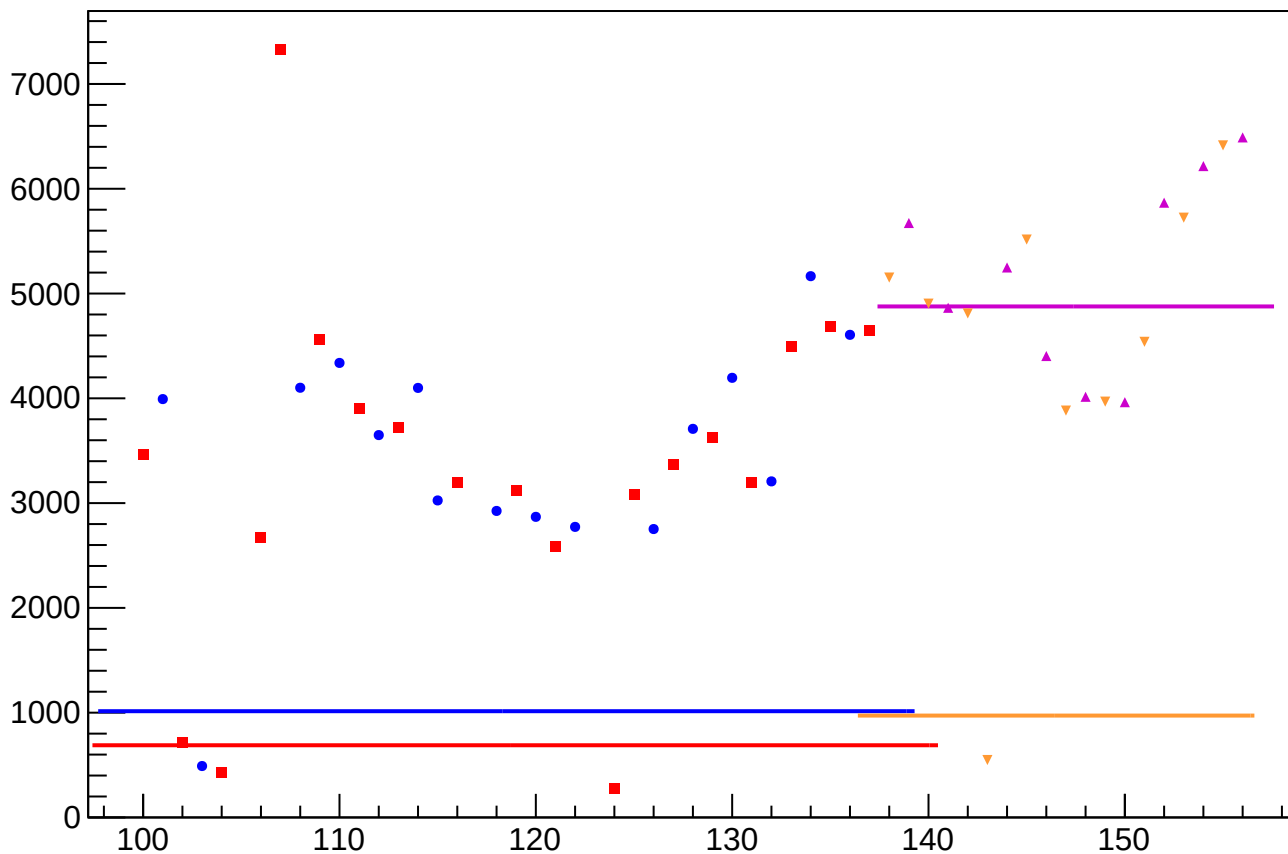
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 202.472 $\pm$ 550.725 χ^2 /NDF:19.8/24

Out: 70.495 $\pm$ 345.473 χ^2 /NDF:32.9/28

All: 107.764 $\pm$ 292.657 χ^2 /NDF: 52.8/53

asym_atl_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1014.094+/-0.410

χ^2/NDF : 8223017.6/15

Left Out: 972.269+/-0.409

χ^2/NDF : 9909457.5/9

Right Out: 689.055+/-0.304

χ^2/NDF : 8910364.4/18

Left In: 4876.883+/-1.254

χ^2/NDF : 466627.8/8

Left: 1347.899+/-0.389

χ^2/NDF : 19134833.1/18

Right: 804.723+/-0.244

χ^2/NDF : 17538883.1/34

In: 1386.448+/-0.389

χ^2/NDF : 17259918.3/24

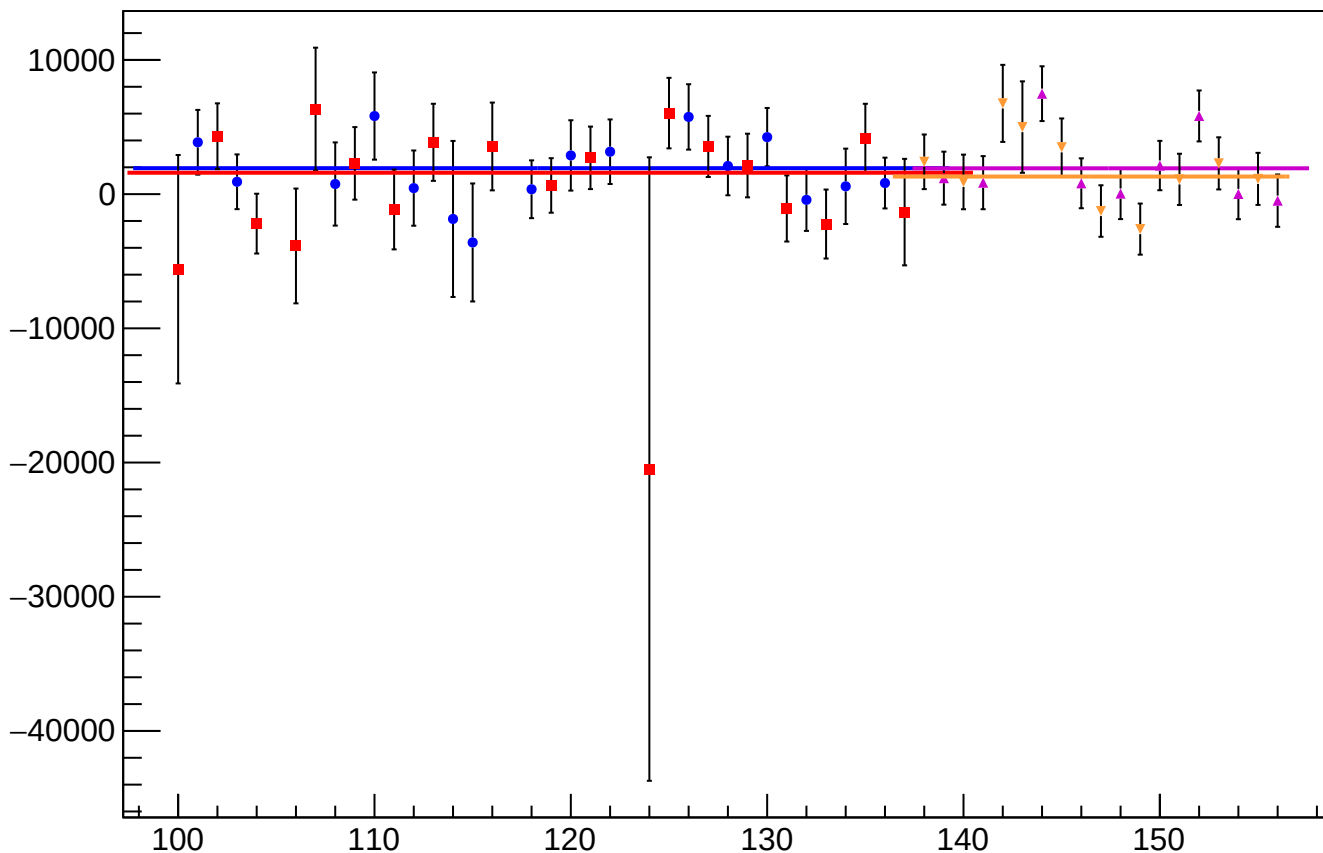
Out: 789.984+/-0.244

χ^2/NDF : 19128119.0/28

All: 958.418+/-0.207

χ^2/NDF : 38071556.5/53

eigen_cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871+/-627.874 χ^2/NDF : 10.9/15

Left Out: 1310.293+/-665.196 χ^2/NDF :12.4/9

Right Out: 1595.521+/-642.212 χ^2/NDF : 19.4/18

Left In: 1925.402+/-640.774 χ^2/NDF :16.0/8

Left: 1629.346+/-461.488 χ^2/NDF : 28.9/18

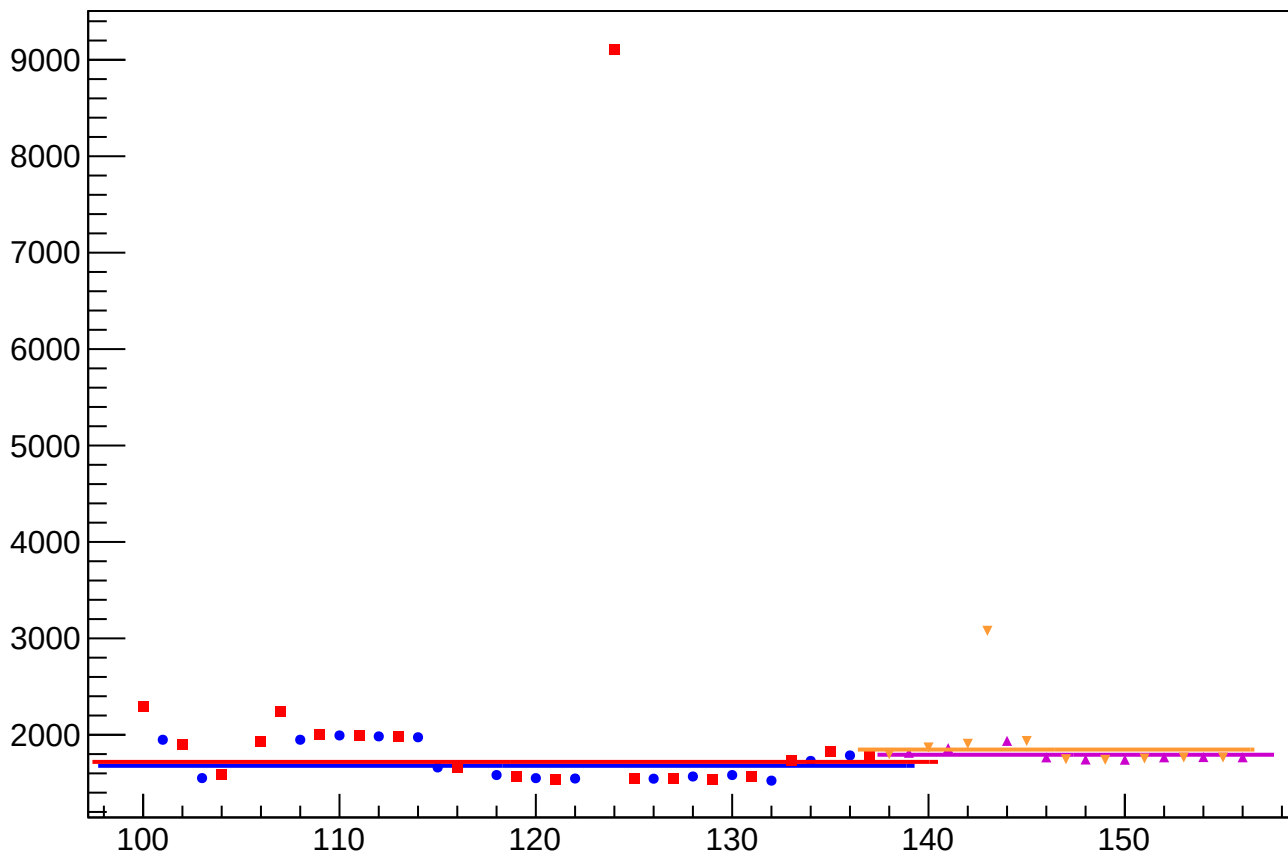
Right: 1769.026+/-448.957 χ^2/NDF : 30.4/34

In: 1930.233+/-448.465 χ^2/NDF :26.9/24

Out: 1457.920+/-462.024 χ^2/NDF :31.9/28

All: 1701.108+/-321.800 χ^2/NDF : 59.3/53

eigen_cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.7/15

Left Out: 1847.027+/-0.470 χ^2/NDF : 290509.7/9

Right Out: 1719.146+/-0.452 χ^2/NDF : 384922.3/18

Left In: 1793.237+/-0.453 χ^2/NDF : 16956.8/8

Left: 1819.126+/-0.326 χ^2/NDF : 314249.9/18

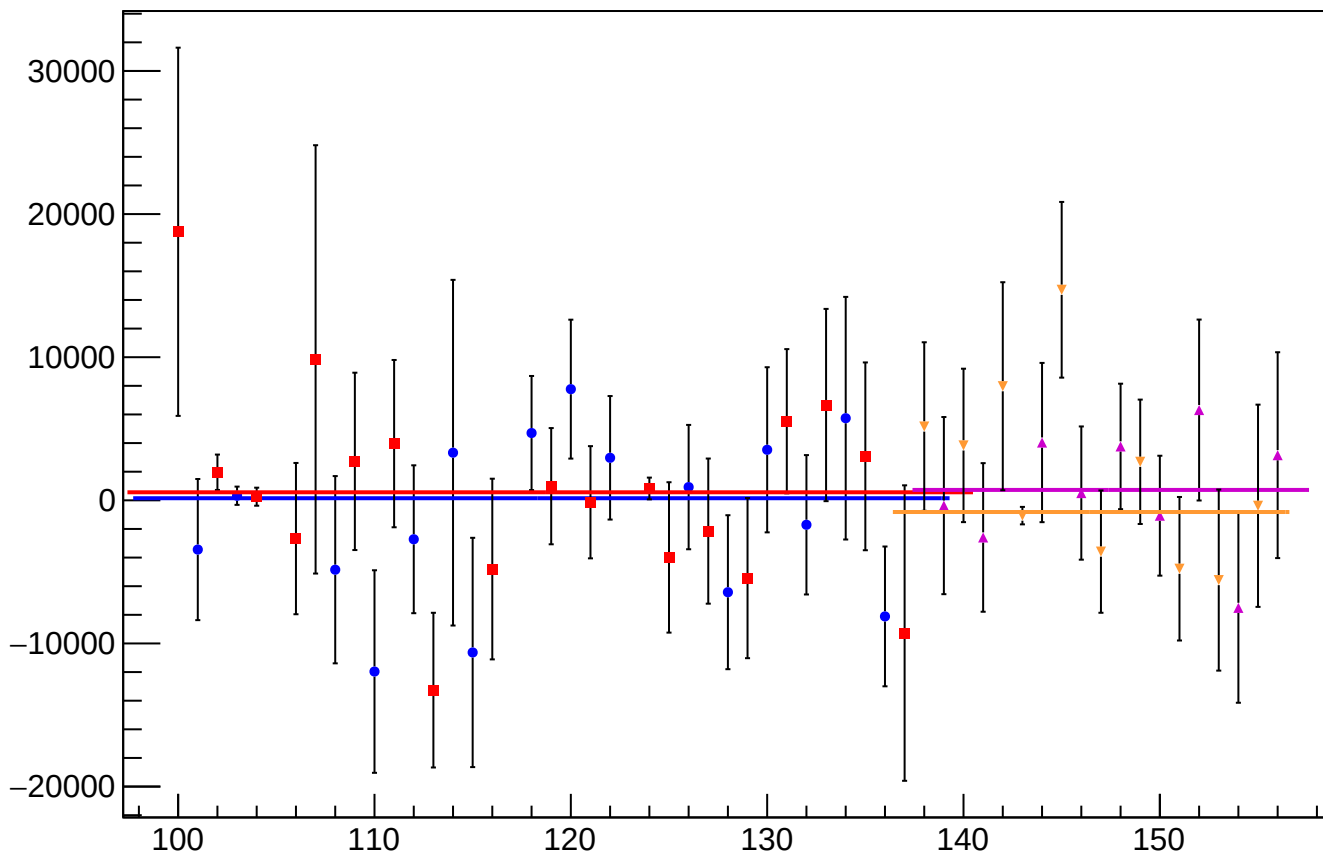
Right: 1698.473+/-0.317 χ^2/NDF : 530510.4/34

In: 1734.724+/-0.317 χ^2/NDF : 191129.6/24

Out: 1780.568+/-0.326 χ^2/NDF : 713846.1/28

All: 1757.014+/-0.227 χ^2/NDF : 915137.4/53

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: -816.214 $\pm$ 578.713 χ^2 /NDF:12.1/9

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: 726.704 $\pm$ 1773.813 χ^2 /NDF:3.9/8

Left: -667.783 $\pm$ 550.173 χ^2 /NDF: 16.7/18

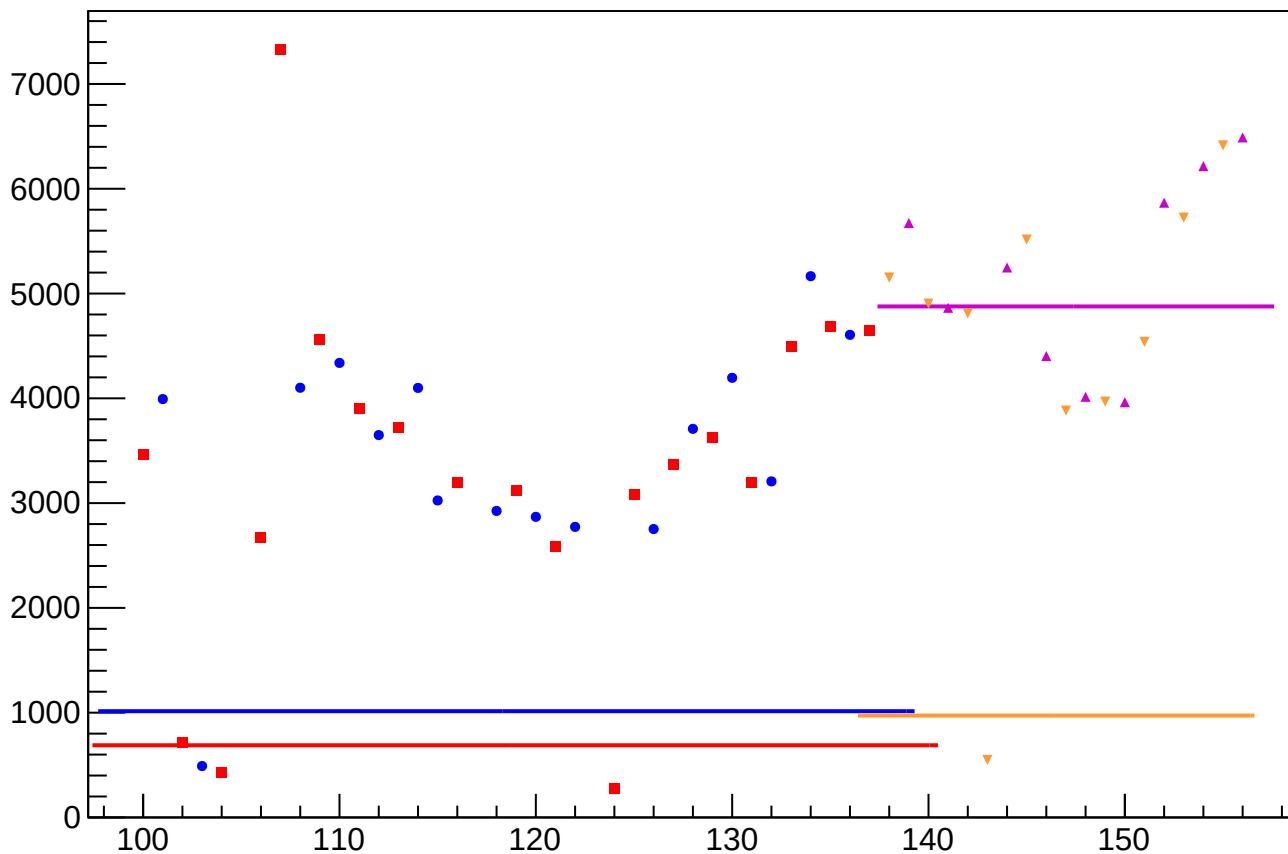
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 202.472 $\pm$ 550.725 χ^2 /NDF:19.8/24

Out: 70.495 $\pm$ 345.473 χ^2 /NDF:32.9/28

All: 107.764 $\pm$ 292.657 χ^2 /NDF: 52.8/53

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: 972.269+/-0.409 χ^2/NDF : 9909457.5/9

Right Out: 689.055+/-0.304 χ^2/NDF : 8910364.4/18

Left In: 4876.883+/-1.254 χ^2/NDF : 466627.8/8

Left: 1347.899+/-0.389 χ^2/NDF : 19134833.1/18

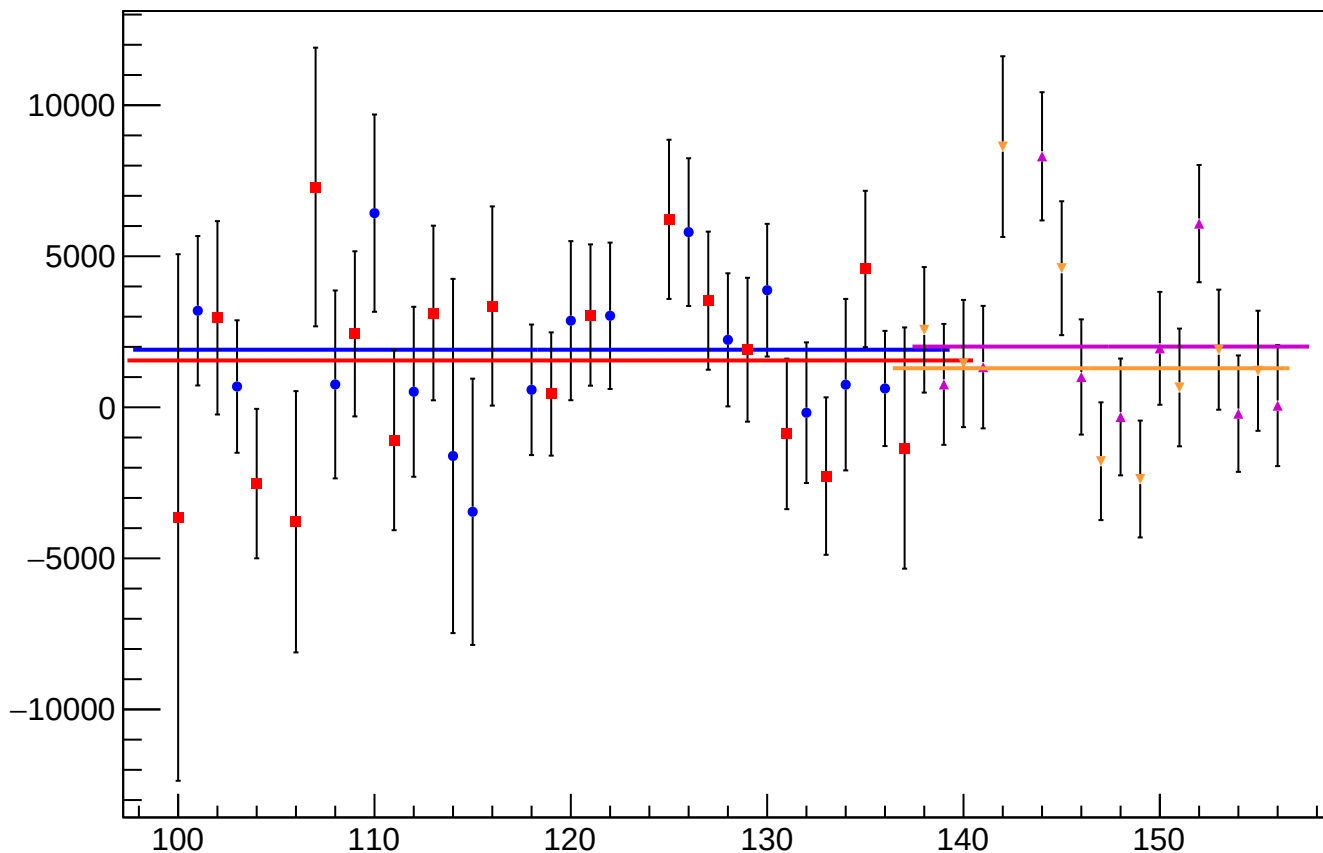
Right: 804.723+/-0.244 χ^2/NDF : 17538883.1/34

In: 1386.448+/-0.389 χ^2/NDF : 17259918.3/24

Out: 789.984+/-0.244 χ^2/NDF : 19128119.0/28

All: 958.418+/-0.207 χ^2/NDF : 38071556.5/53

dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.205+/-636.433 χ^2/NDF : 10.2/15

Left Out: 1293.028+/-694.492 χ^2/NDF :14.9/8

Right Out: 1550.986+/-661.054 χ^2/NDF : 17.5/17

Left In: 2010.151+/-655.382 χ^2/NDF :17.7/8

Left: 1672.349+/-476.652 χ^2/NDF : 33.2/17

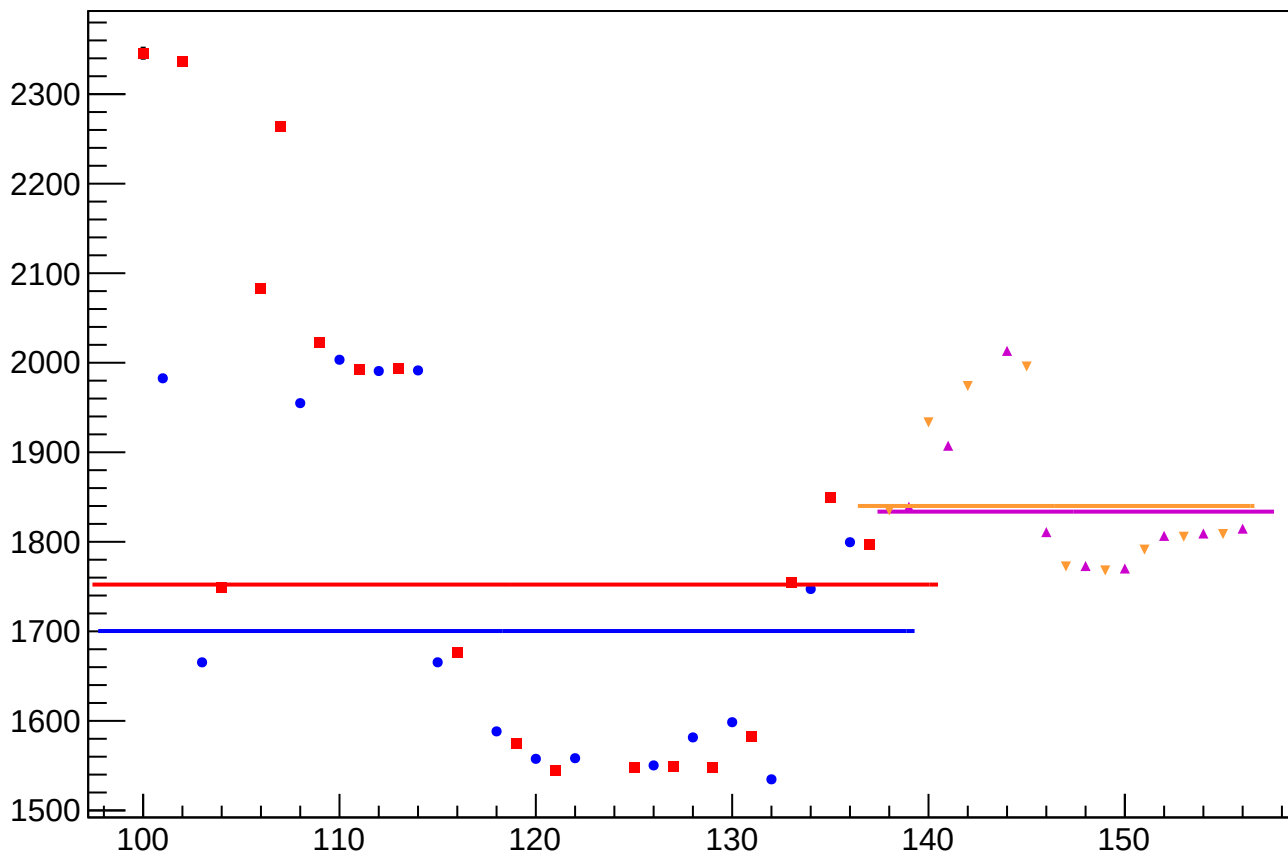
Right: 1735.334+/-458.483 χ^2/NDF : 27.8/33

In: 1956.653+/-456.578 χ^2/NDF :28.0/24

Out: 1428.367+/-478.820 χ^2/NDF :32.4/26

All: 1705.065+/-330.433 χ^2/NDF : 61.1/51

dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357 $\pm$ 0.450 χ^2/NDF : 135419.2/15

Left Out: 1840.034 $\pm$ 0.491 χ^2/NDF :25362.9/8

Right Out: 1752.239 $\pm$ 0.466 χ^2/NDF : 247952.8/17

Left In: 1833.684 $\pm$ 0.463 χ^2/NDF :22434.3/8

Left: 1836.675 $\pm$ 0.337 χ^2/NDF : 47885.6/17

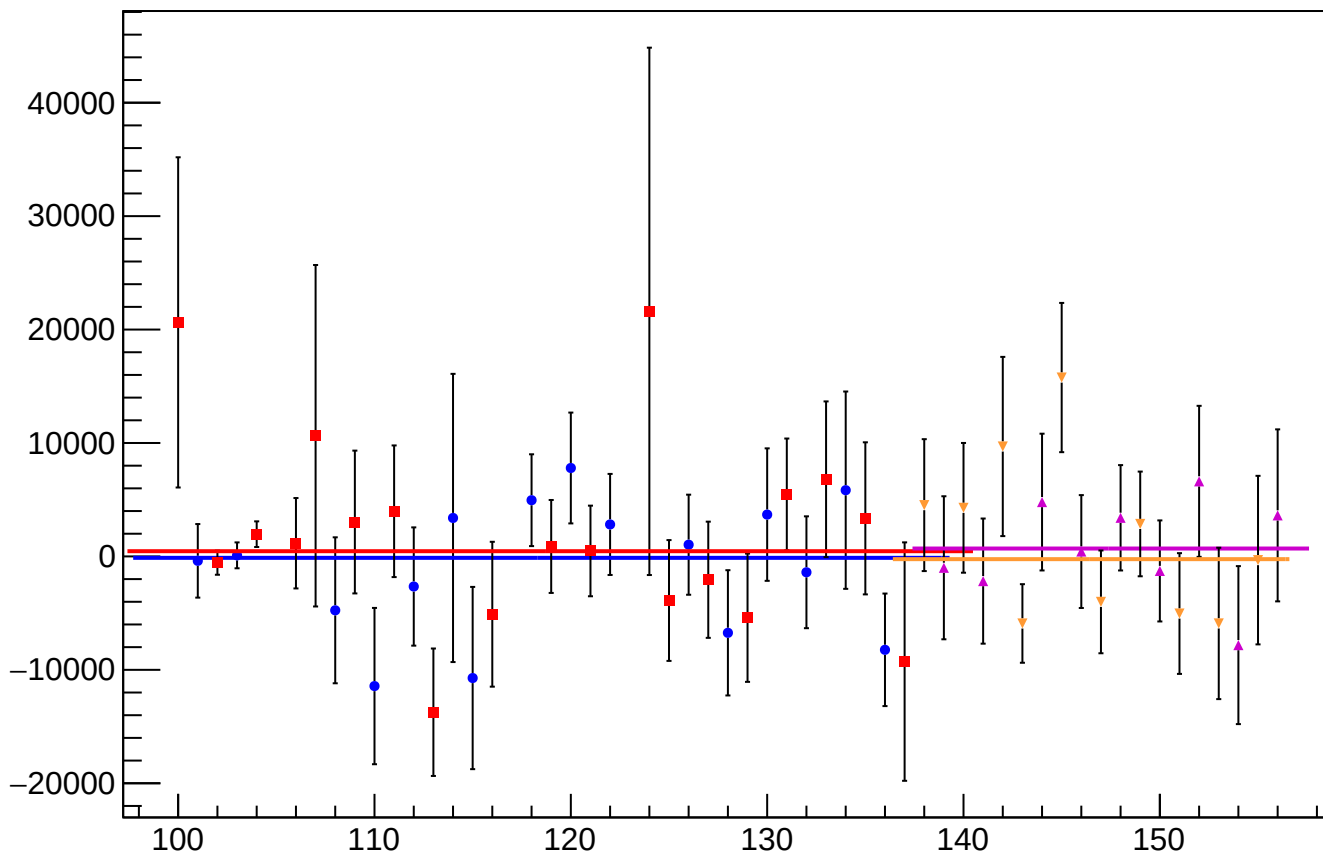
Right: 1725.373 $\pm$ 0.324 χ^2/NDF : 389780.4/33

In: 1765.065 $\pm$ 0.323 χ^2/NDF :200452.9/24

Out: 1793.872 $\pm$ 0.338 χ^2/NDF :290121.0/26

All: 1778.801 $\pm$ 0.234 χ^2/NDF : 494370.1/51

asym_atl_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.468+/-867.645 χ^2/NDF : 15.1/15

Left Out: -241.509+/-1680.404 χ^2/NDF : 14.2/9

Right Out: 459.431+/-679.157 χ^2/NDF : 18.5/18

Left In: 694.972+/-1878.929 χ^2/NDF : 3.8/8

Left: 174.660+/-1252.553 χ^2/NDF : 18.1/18

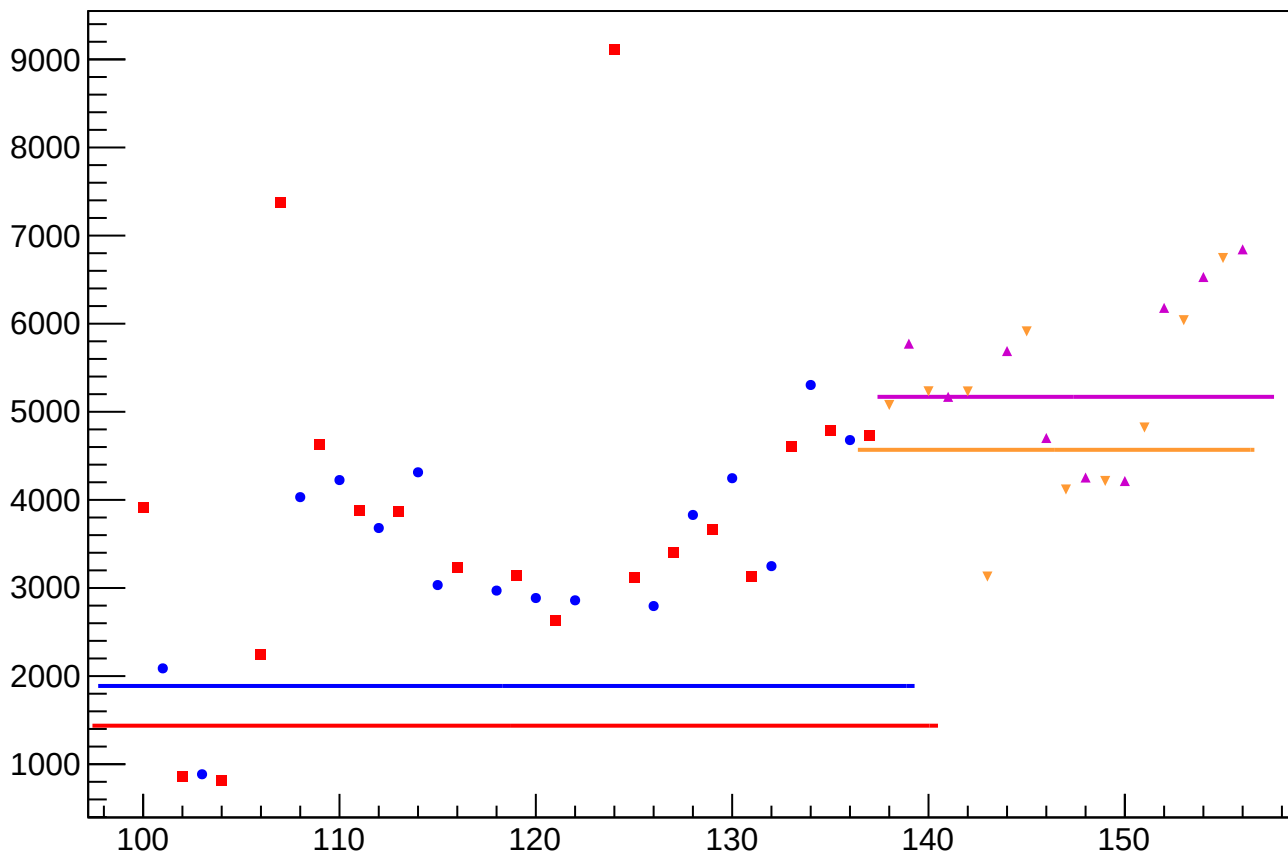
Right: 237.213+/-534.800 χ^2/NDF : 33.9/34

In: 18.732+/-787.715 χ^2/NDF : 19.0/24

Out: 361.011+/-629.673 χ^2/NDF : 32.8/28

All: 227.568+/-491.844 χ^2/NDF : 51.9/53

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: 4568.364 $\pm$ 1.188 χ^2 /NDF: 789674.8/9

Right Out: 1437.108 $\pm$ 0.480 χ^2 /NDF: 5964193.5/18

Left In: 5169.731 $\pm$ 1.329 χ^2 /NDF: 440403.7/8

Left: 4835.609 $\pm$ 0.886 χ^2 /NDF: 1343907.5/18

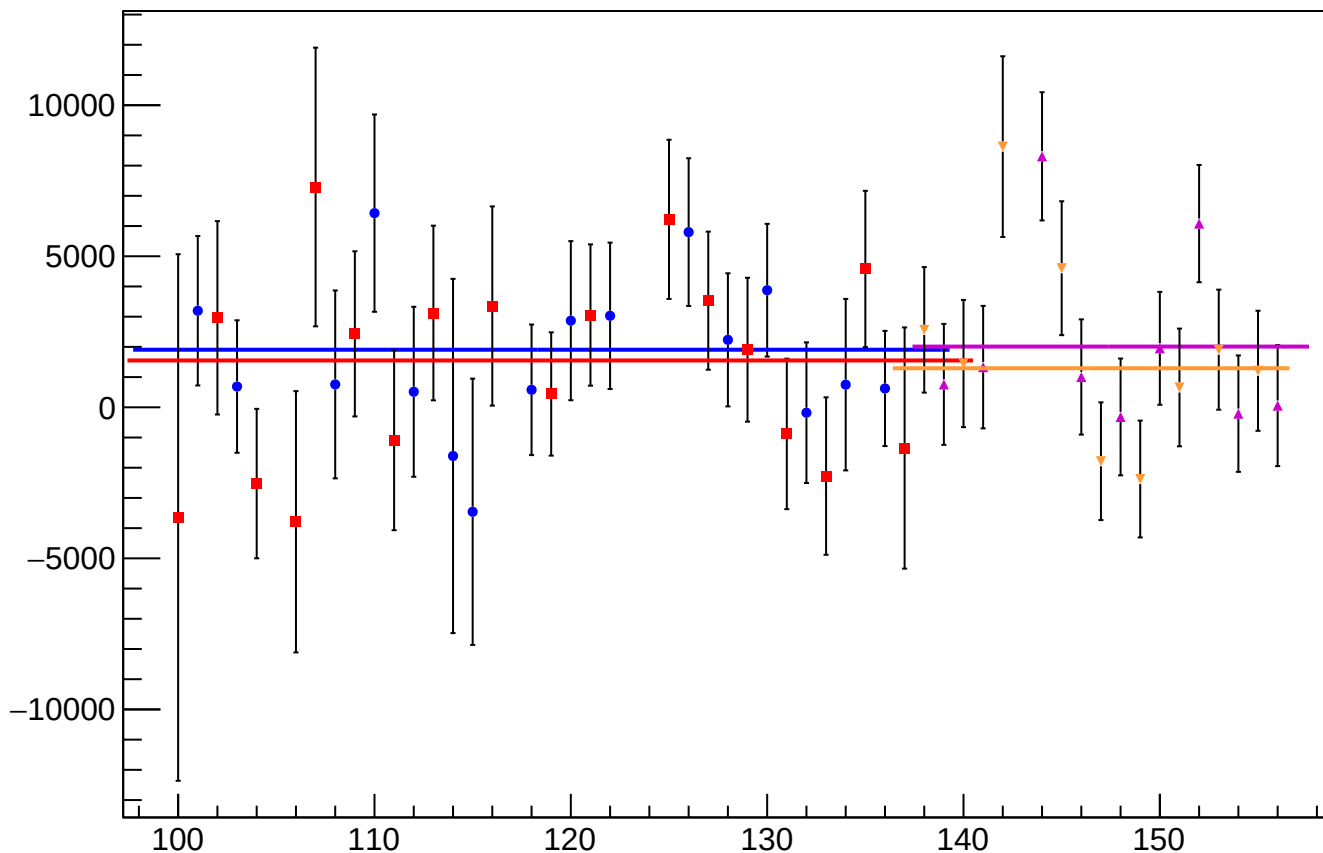
Right: 1608.413 $\pm$ 0.378 χ^2 /NDF: 10724797.8/34

In: 2464.793 $\pm$ 0.557 χ^2 /NDF: 9894955.6/24

Out: 1876.773 $\pm$ 0.445 χ^2 /NDF: 12723263.0/28

All: 2106.023 $\pm$ 0.348 χ^2 /NDF: 23298204.1/5

eigen_dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.203+/-636.433 χ^2/NDF : 10.2/15

Left Out: 1293.034+/-694.492 χ^2/NDF :14.9/8

Right Out: 1550.983+/-661.054 χ^2/NDF : 17.5/17

Left In: 2010.151+/-655.382 χ^2/NDF :17.7/8

Left: 1672.352+/-476.652 χ^2/NDF : 33.2/17

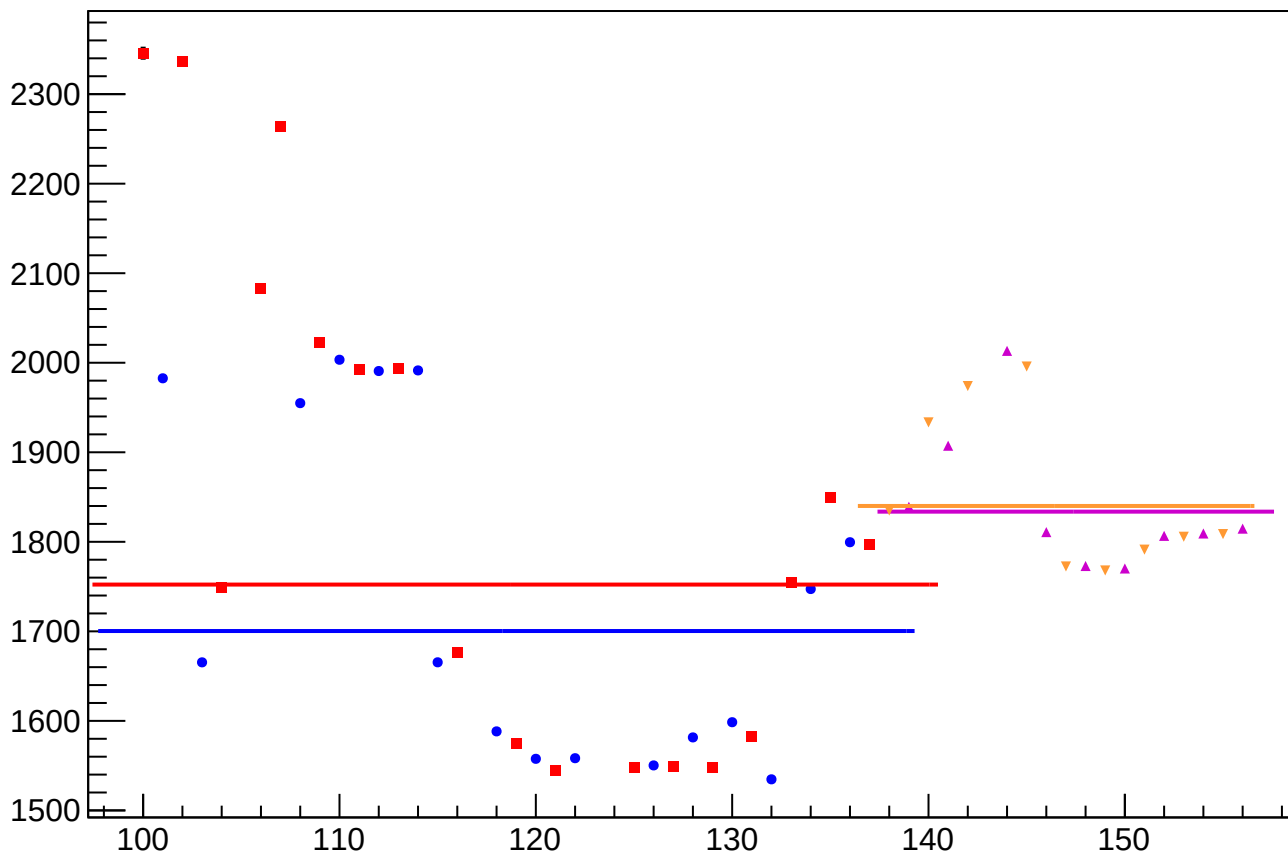
Right: 1735.331+/-458.483 χ^2/NDF : 27.8/33

In: 1956.653+/-456.578 χ^2/NDF :28.0/24

Out: 1428.368+/-478.821 χ^2/NDF :32.4/26

All: 1705.065+/-330.433 χ^2/NDF : 61.1/51

eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357+/-0.450 χ^2/NDF : 135419.5/15

Left Out: 1840.035+/-0.491 χ^2/NDF : 25363.3/8

Right Out: 1752.238+/-0.466 χ^2/NDF : 247952.3/17

Left In: 1833.685+/-0.463 χ^2/NDF : 22434.6/8

Left: 1836.676+/-0.337 χ^2/NDF : 47886.3/17

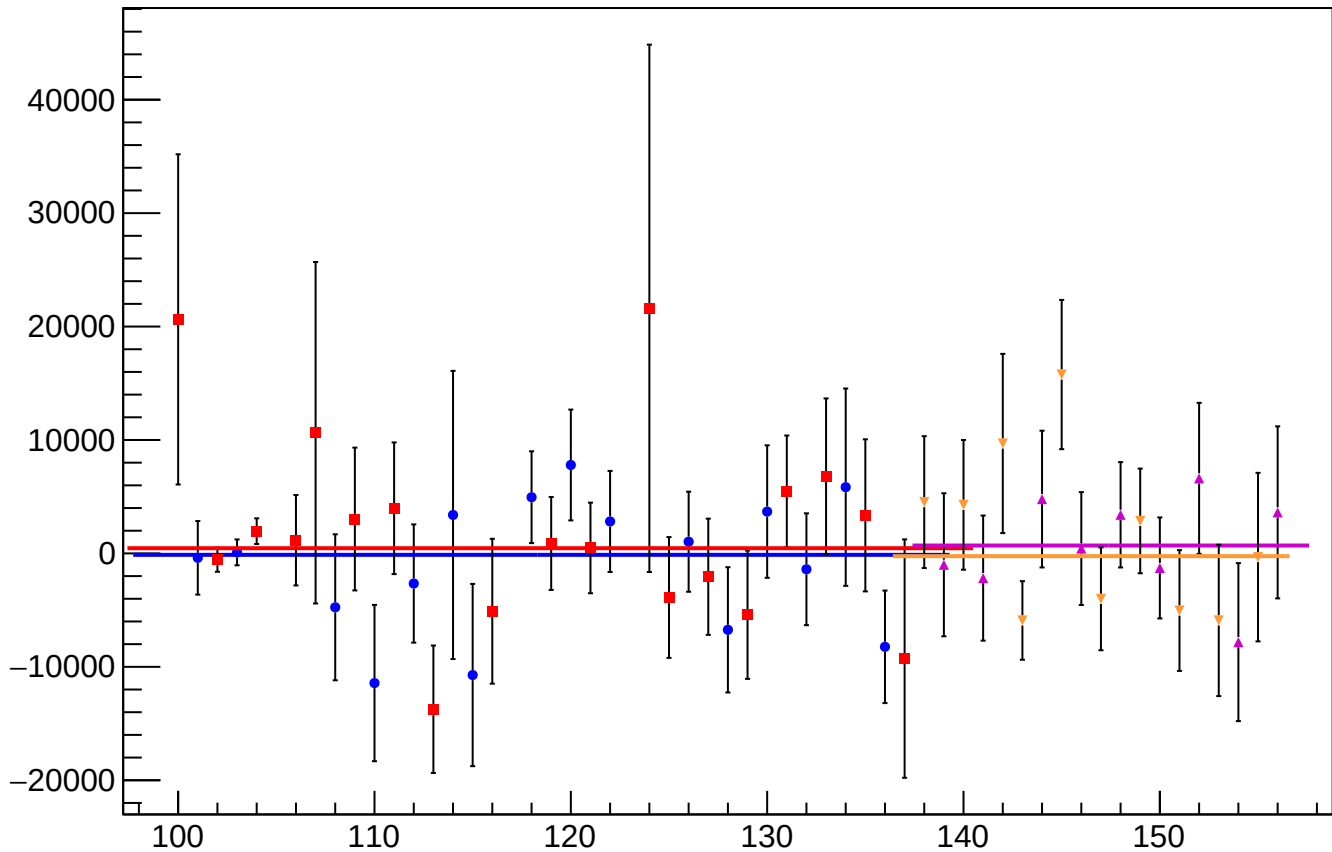
Right: 1725.372+/-0.324 χ^2/NDF : 389780.1/33

In: 1765.066+/-0.323 χ^2/NDF : 200454.3/24

Out: 1793.872+/-0.338 χ^2/NDF : 290121.5/26

All: 1778.802+/-0.234 χ^2/NDF : 494372.1/51

asym_atl_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.464 $\pm$ 867.639 χ^2 /NDF: 15.1/15

Left Out: -241.514 $\pm$ 1680.405 χ^2 /NDF:14.2/9

Right Out: 459.430 $\pm$ 679.152 χ^2 /NDF: 18.5/18

Left In: 694.972 $\pm$ 1878.932 χ^2 /NDF:3.8/8

Left: 174.657 $\pm$ 1252.554 χ^2 /NDF: 18.1/18

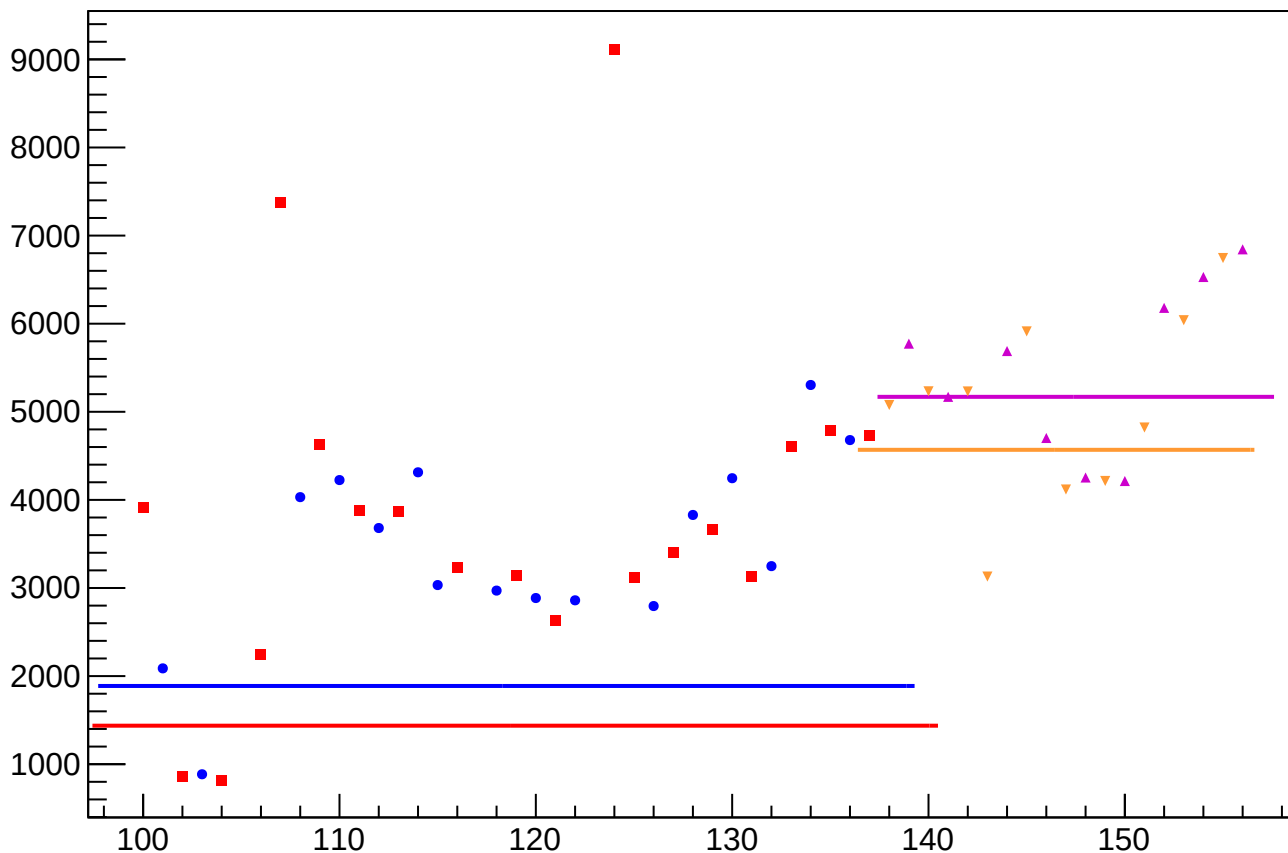
Right: 237.214 $\pm$ 534.797 χ^2 /NDF: 33.9/34

In: 18.734 $\pm$ 787.711 χ^2 /NDF:19.0/24

Out: 361.011 $\pm$ 629.669 χ^2 /NDF:32.8/28

All: 227.568 $\pm$ 491.841 χ^2 /NDF: 51.9/53

asym_atl_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1887.982 $\pm$ 0.614 χ^2 /NDF: 4425728.6/15

Left Out: 4568.368 $\pm$ 1.188 χ^2 /NDF: 789680.4/9

Right Out: 1437.095 $\pm$ 0.480 χ^2 /NDF: 5964228.2/18

Left In: 5169.737 $\pm$ 1.329 χ^2 /NDF: 440406.9/8

Left: 4835.614 $\pm$ 0.886 χ^2 /NDF: 1343916.8/18

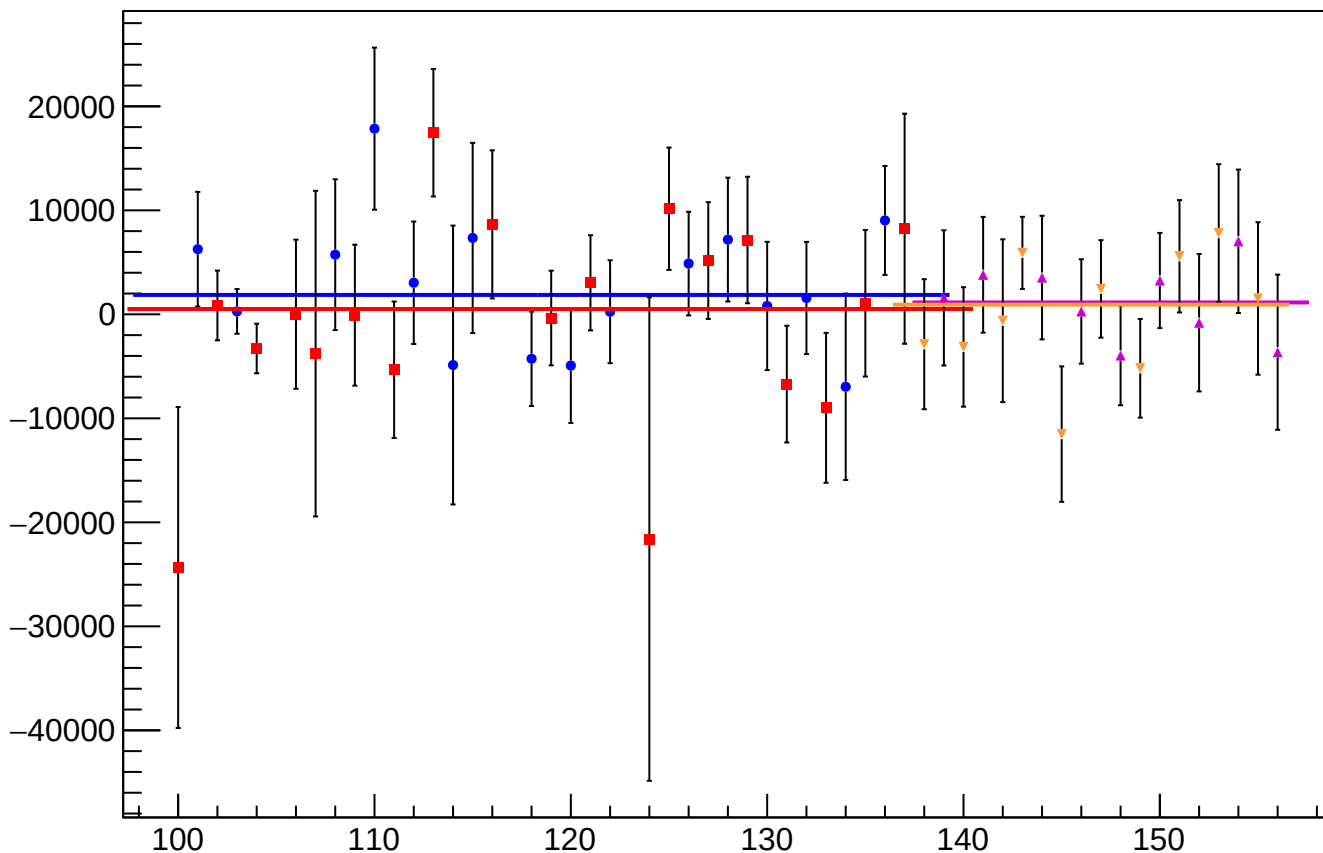
Right: 1608.398 $\pm$ 0.378 χ^2 /NDF: 10724869.8/34

In: 2464.773 $\pm$ 0.557 χ^2 /NDF: 9895065.6/24

Out: 1876.755 $\pm$ 0.445 χ^2 /NDF: 12723371.3/28

All: 2106.004 $\pm$ 0.348 χ^2 /NDF: 23298424.3/5

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1866.618 $\pm$ 1259.187 χ^2 /NDF: 13.8/15

Left Out: 931.934 $\pm$ 1703.259 χ^2 /NDF:10.2/9

Right Out: 512.528 $\pm$ 1241.513 χ^2 /NDF: 24.7/18

Left In: 1142.879 $\pm$ 1898.920 χ^2 /NDF:3.0/8

Left: 1025.982 $\pm$ 1267.936 χ^2 /NDF: 13.2/18

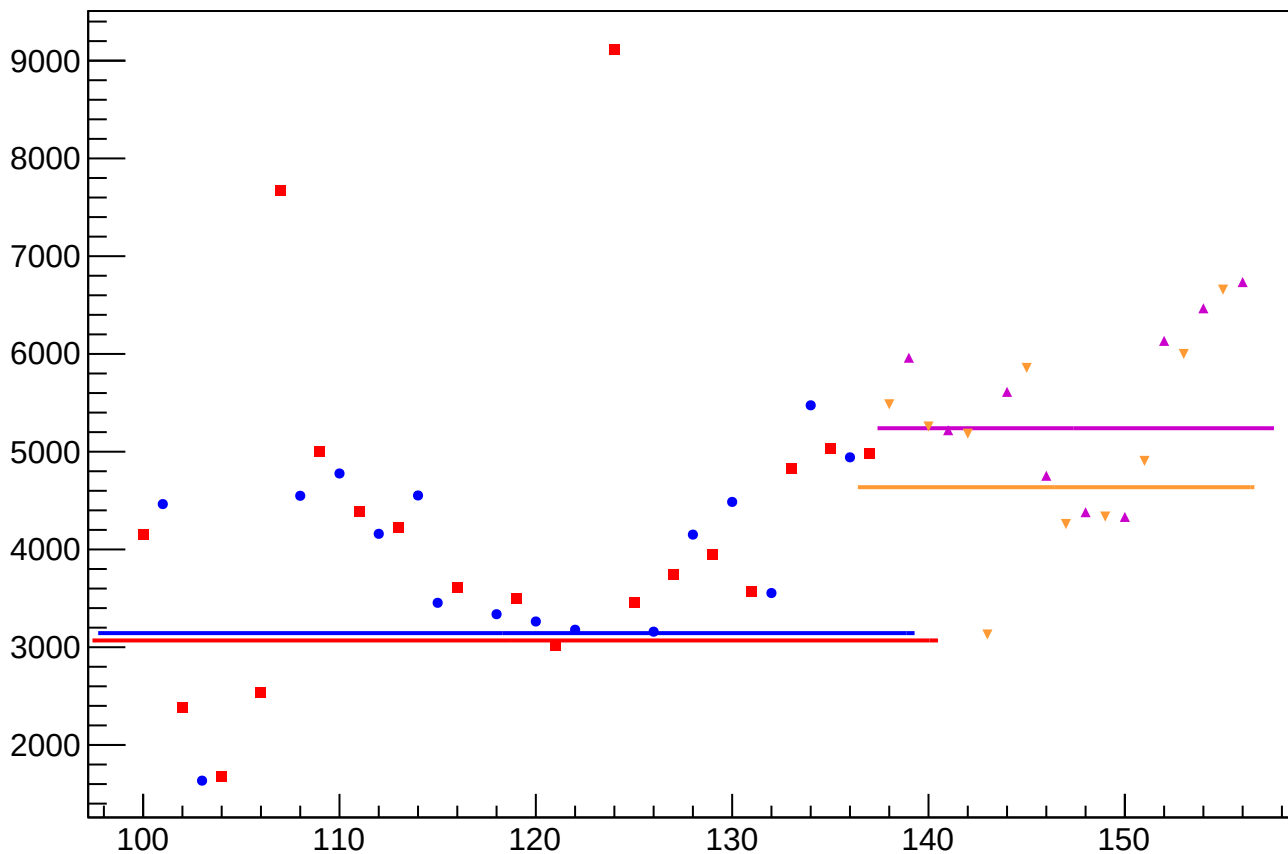
Right: 1180.003 $\pm$ 884.065 χ^2 /NDF: 39.1/34

In: 1645.576 $\pm$ 1049.428 χ^2 /NDF:16.9/24

Out: 658.046 $\pm$ 1003.277 χ^2 /NDF:34.9/28

All: 1129.620 $\pm$ 725.191 χ^2 /NDF: 52.3/53

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3144.136 $\pm$ 0.890 χ^2/NDF : 1883139.2/15

Left Out: 4636.876 $\pm$ 1.204 χ^2/NDF : 781104.1/9

Right Out: 3069.098 $\pm$ 0.864 χ^2/NDF : 1881644.6/18

Left In: 5240.100 $\pm$ 1.343 χ^2/NDF : 374599.7/8

Left: 4905.819 $\pm$ 0.897 χ^2/NDF : 1267546.4/18

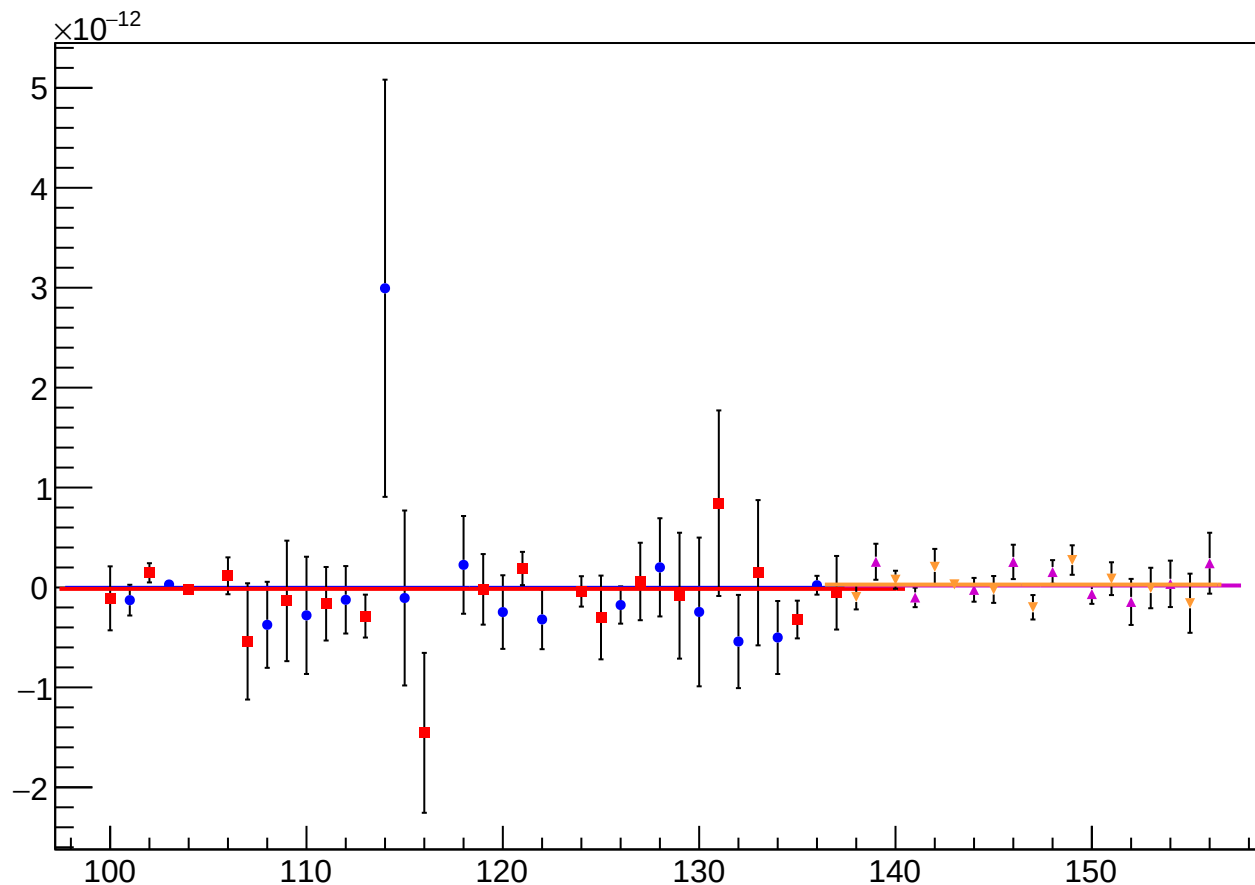
Right: 3105.498 $\pm$ 0.620 χ^2/NDF : 3768440.9/34

In: 3784.276 $\pm$ 0.742 χ^2/NDF : 3950164.4/24

Out: 3601.953 $\pm$ 0.702 χ^2/NDF : 3781313.5/28

All: 3688.080 $\pm$ 0.510 χ^2/NDF : 7763328.8/53

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 : 9.2/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 8.4/8

Left: 0.000 ± 0.000 χ^2/NDF : 17.6/18

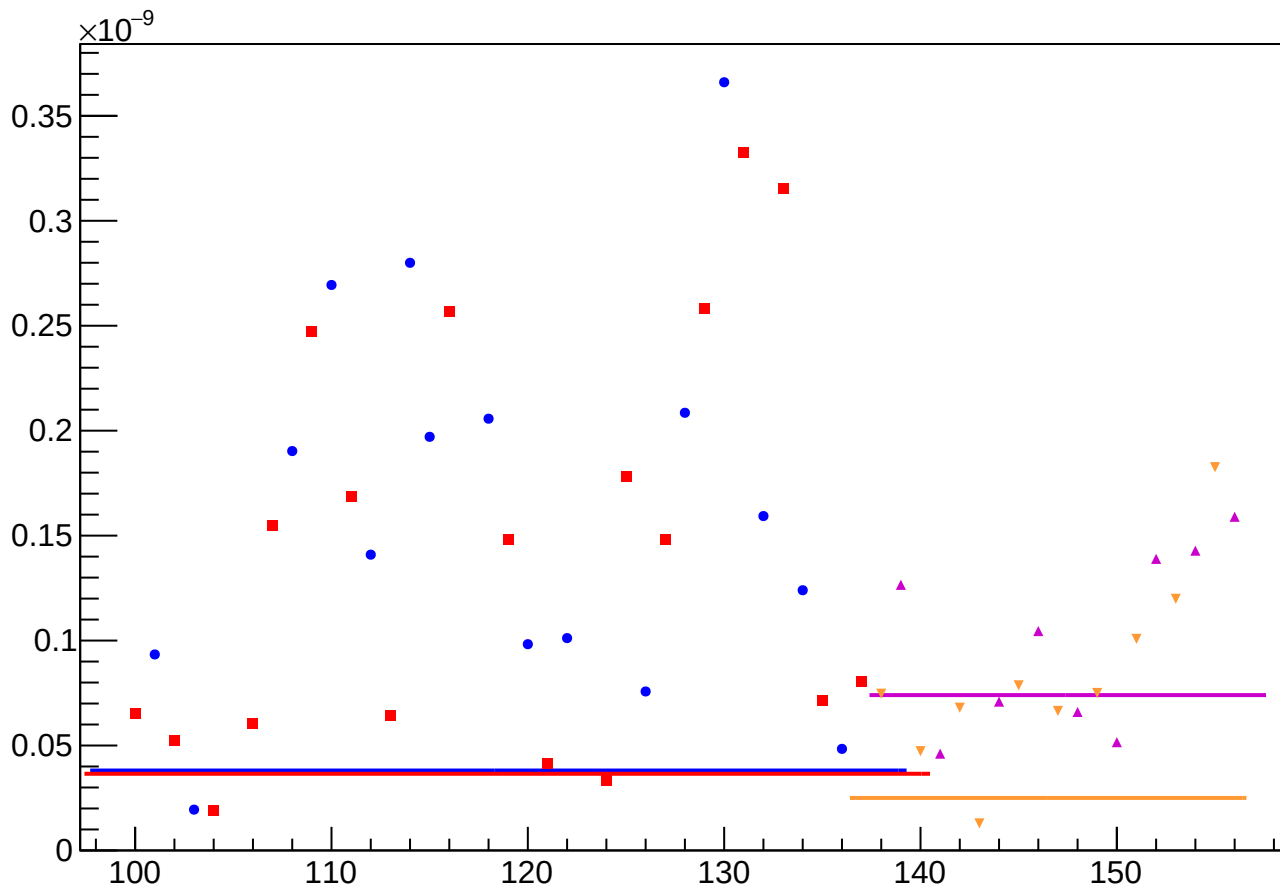
Right: -0.000 ± 0.000 χ^2/NDF : 25.6/34

In: 0.000 ± 0.000 χ^2/NDF : 19.2/24

Out: 0.000 ± 0.000 χ^2/NDF : 25.3/28

All: 0.000 ± 0.000 χ^2/NDF : 44.6/53

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 :3303216.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2683451.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1001648.9/8

Left: 0.000+/-0.000 χ^2/NDF : 6156525.5/18

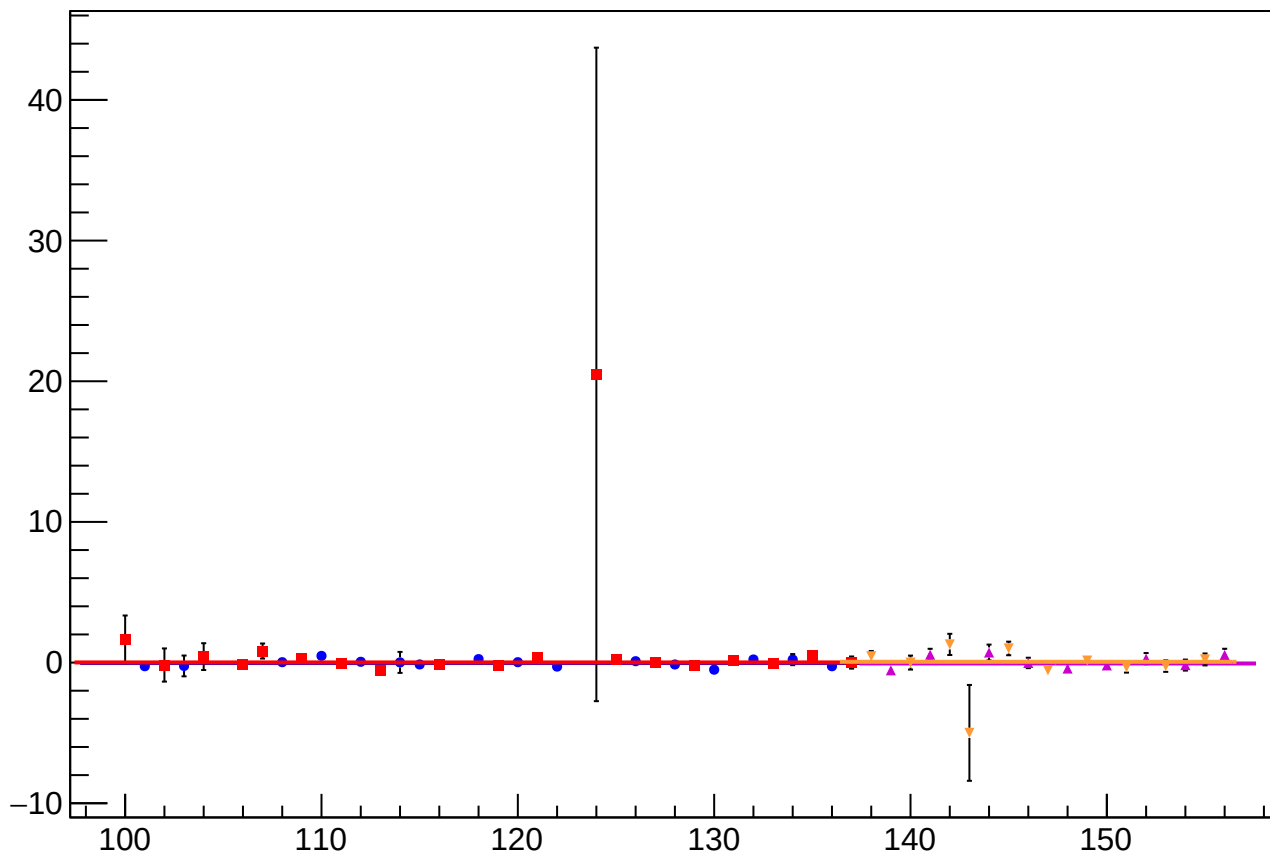
Right: 0.000+/-0.000 χ^2/NDF : 5574117.1/34

In: 0.000+/-0.000 χ^2/NDF :4670041.2/24

Out: 0.000+/-0.000 χ^2/NDF :6164055.4/28

All: 0.000+/-0.000 χ^2/NDF : 11765963.5/53

asym_atl_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 $\chi^2/\text{NDF}: 17.2/15$

Left Out: 0.056 ± 0.136 $\chi^2/\text{NDF}: 15.0/9$

Right Out: 0.011 ± 0.057 $\chi^2/\text{NDF}: 21.8/18$

Left In: -0.065 ± 0.124 $\chi^2/\text{NDF}: 11.3/8$

Left: -0.010 ± 0.091 $\chi^2/\text{NDF}: 26.8/18$

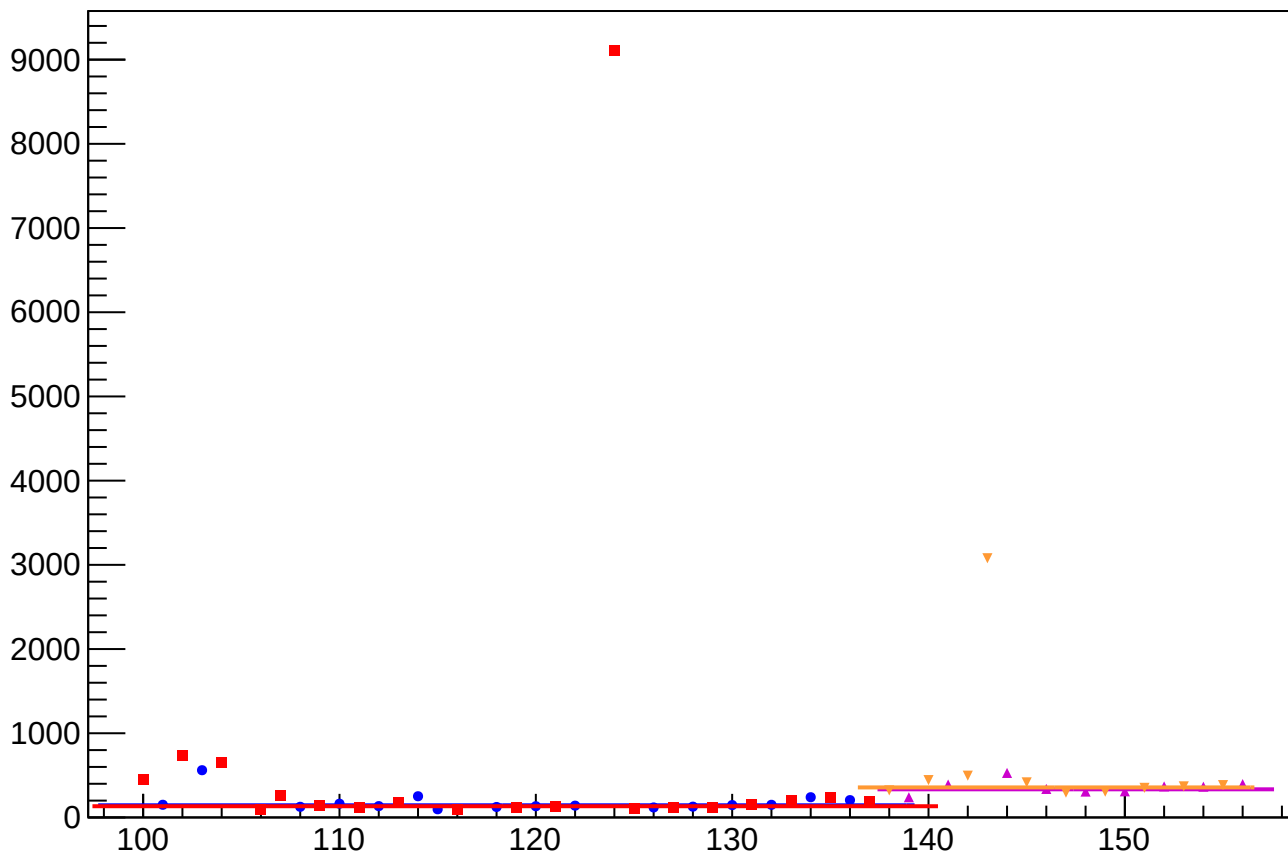
Right: -0.009 ± 0.040 $\chi^2/\text{NDF}: 39.3/34$

In: -0.035 ± 0.052 $\chi^2/\text{NDF}: 28.6/24$

Out: 0.017 ± 0.052 $\chi^2/\text{NDF}: 36.9/28$

All: -0.009 ± 0.037 $\chi^2/\text{NDF}: 66.0/53$

asym_atl_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.291+/-0.041 χ^2/NDF : 1128779.2/15

Left Out: 356.660+/-0.096 χ^2/NDF : 1582694.2/9

Right Out: 133.253+/-0.040 χ^2/NDF : 2220645.6/18

Left In: 334.170+/-0.087 χ^2/NDF : 607680.7/8

Left: 344.320+/-0.065 χ^2/NDF : 2220296.3/18

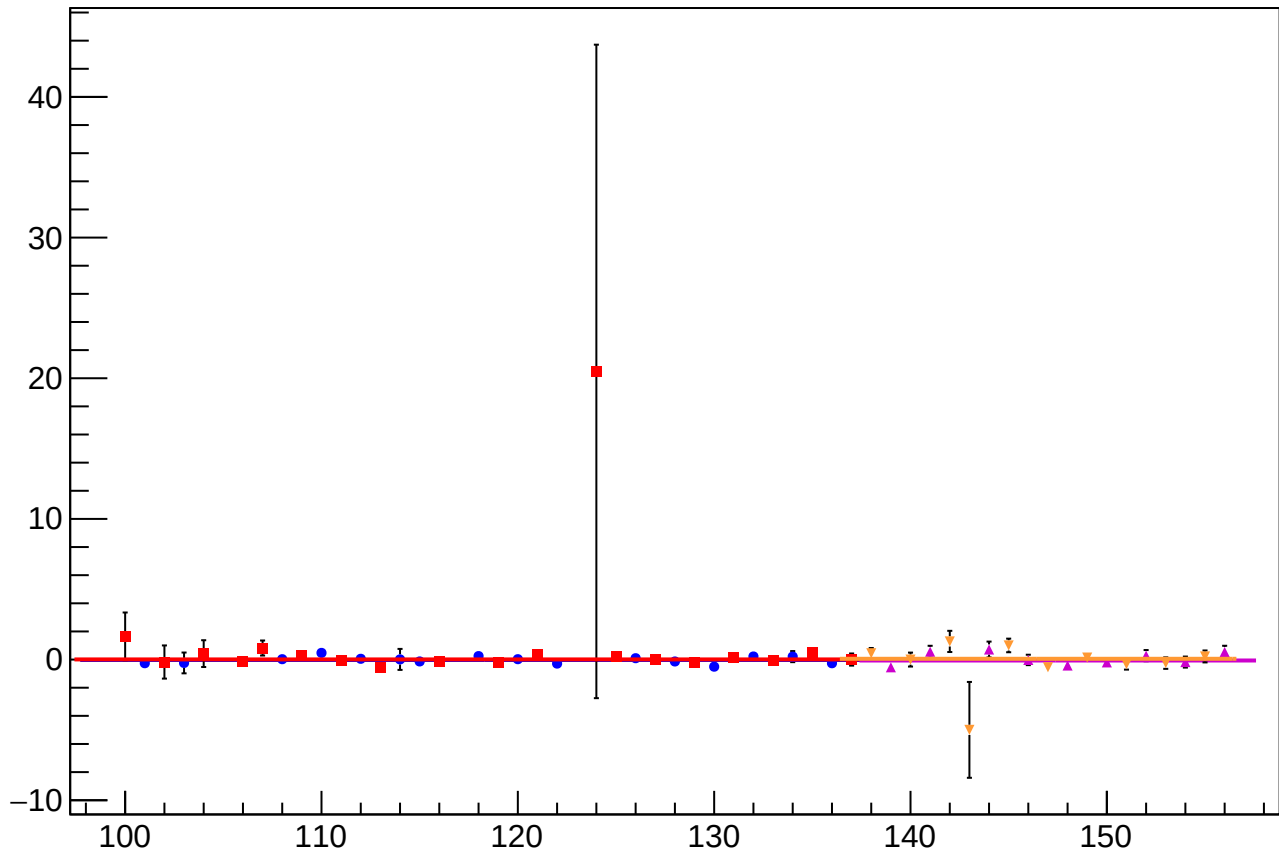
Right: 138.645+/-0.029 χ^2/NDF : 3386693.8/34

In: 178.423+/-0.037 χ^2/NDF : 5612628.6/24

Out: 166.067+/-0.037 χ^2/NDF : 8394227.5/28

All: 172.224+/-0.026 χ^2/NDF : 14062704.0/53

asym_atl_avg_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: 0.056 ± 0.136 $\chi^2/\text{NDF}: 15.0/9$

Right Out: 0.011 ± 0.057 $\chi^2/\text{NDF}: 21.8/18$

Left In: -0.065 ± 0.124 $\chi^2/\text{NDF}: 11.3/8$

Left: -0.010 ± 0.091 $\chi^2/\text{NDF}: 26.8/18$

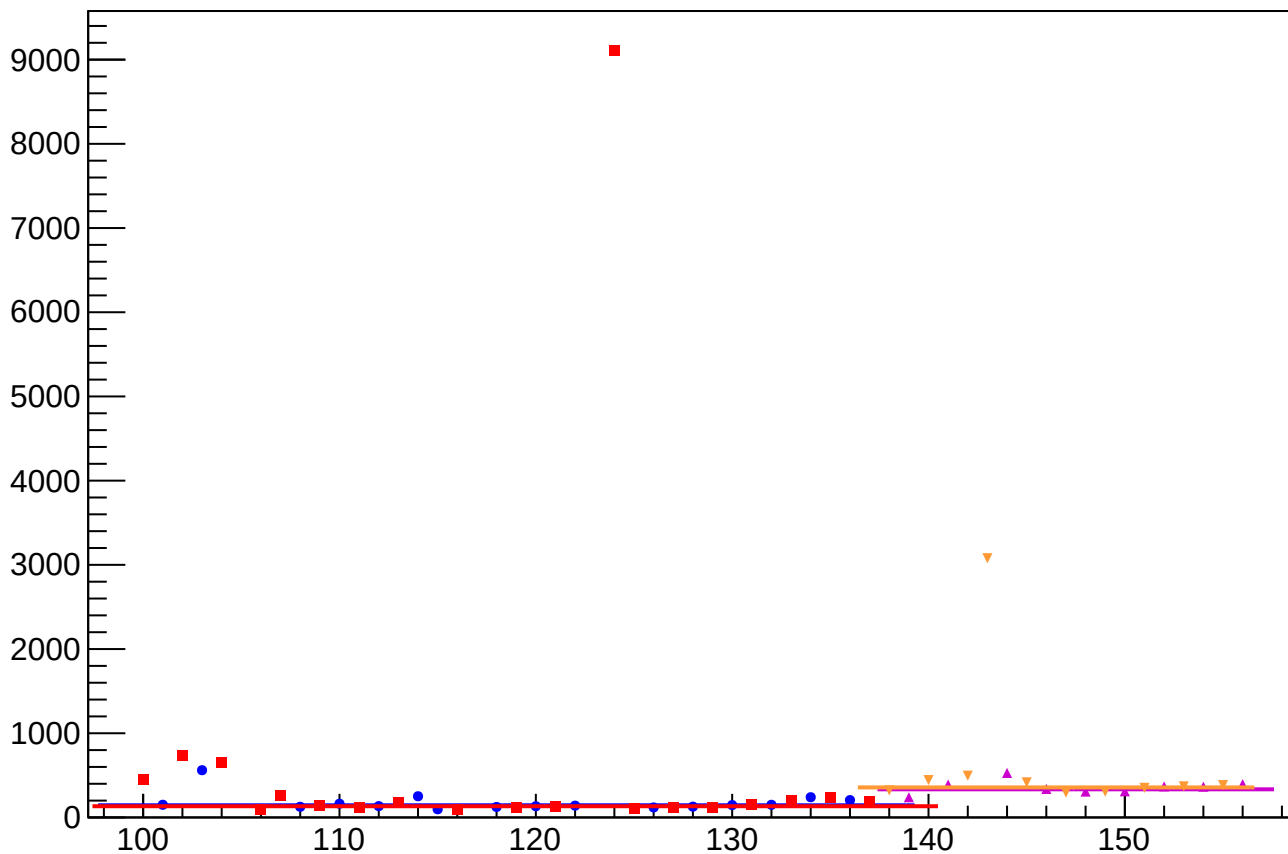
Right: -0.009 ± 0.040 $\chi^2/\text{NDF}: 39.3/34$

In: -0.035 ± 0.052 $\chi^2/\text{NDF}: 28.6/24$

Out: 0.017 ± 0.052 $\chi^2/\text{NDF}: 36.9/28$

All: -0.009 ± 0.037 $\chi^2/\text{NDF}: 66.0/53$

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: 356.660+/-0.096 χ^2/NDF : 1582694.2/9

Right Out: 133.253+/-0.040 χ^2/NDF : 2220645.6/18

Left In: 334.170+/-0.087 χ^2/NDF : 607680.7/8

Left: 344.320+/-0.065 χ^2/NDF : 2220296.3/18

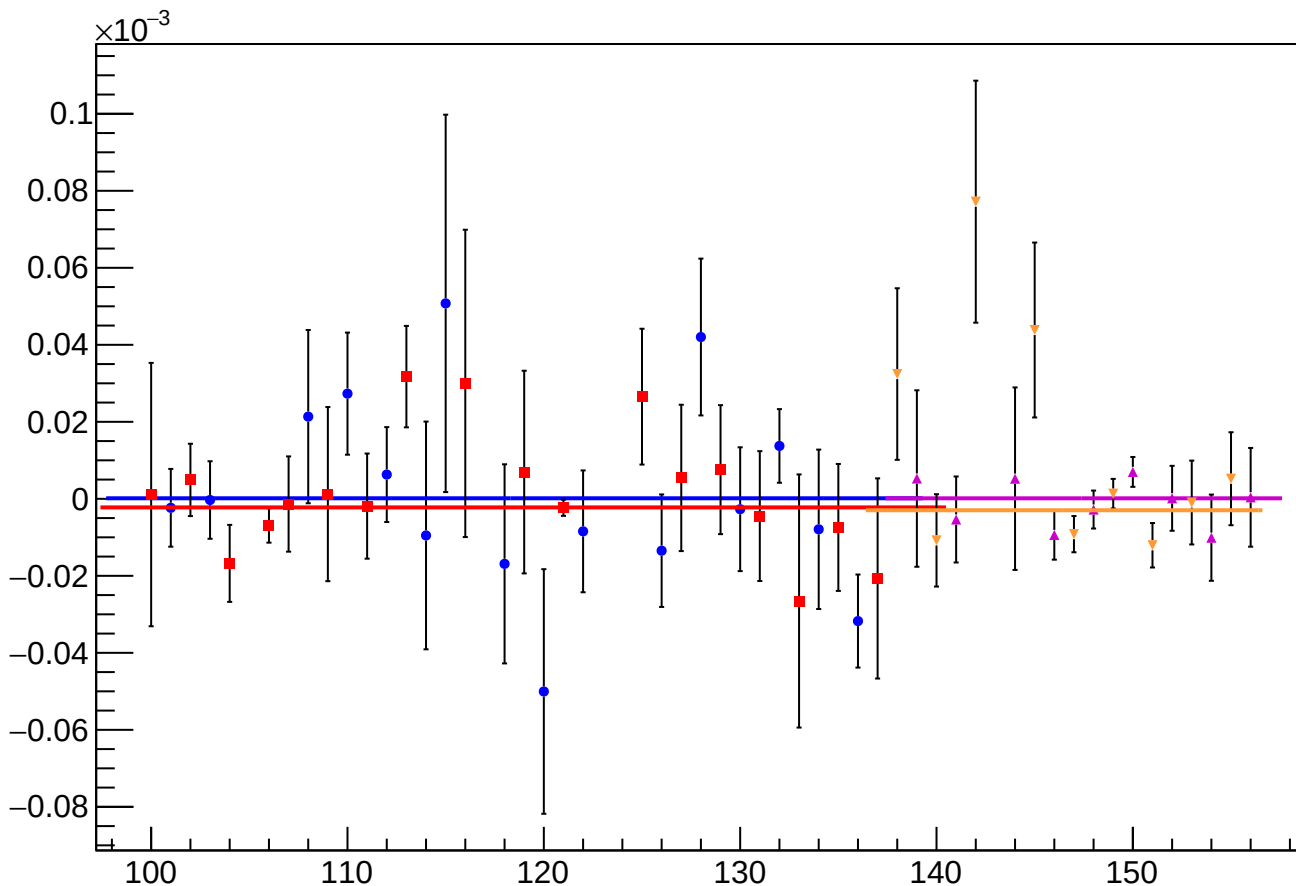
Right: 138.645+/-0.029 χ^2/NDF : 3386693.8/34

In: 178.423+/-0.037 χ^2/NDF : 5612628.6/24

Out: 166.067+/-0.037 χ^2/NDF : 8394227.5/28

All: 172.224+/-0.026 χ^2/NDF : 14062704.0/53

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 19.7/8$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.6/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6.9/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 27.3/17$

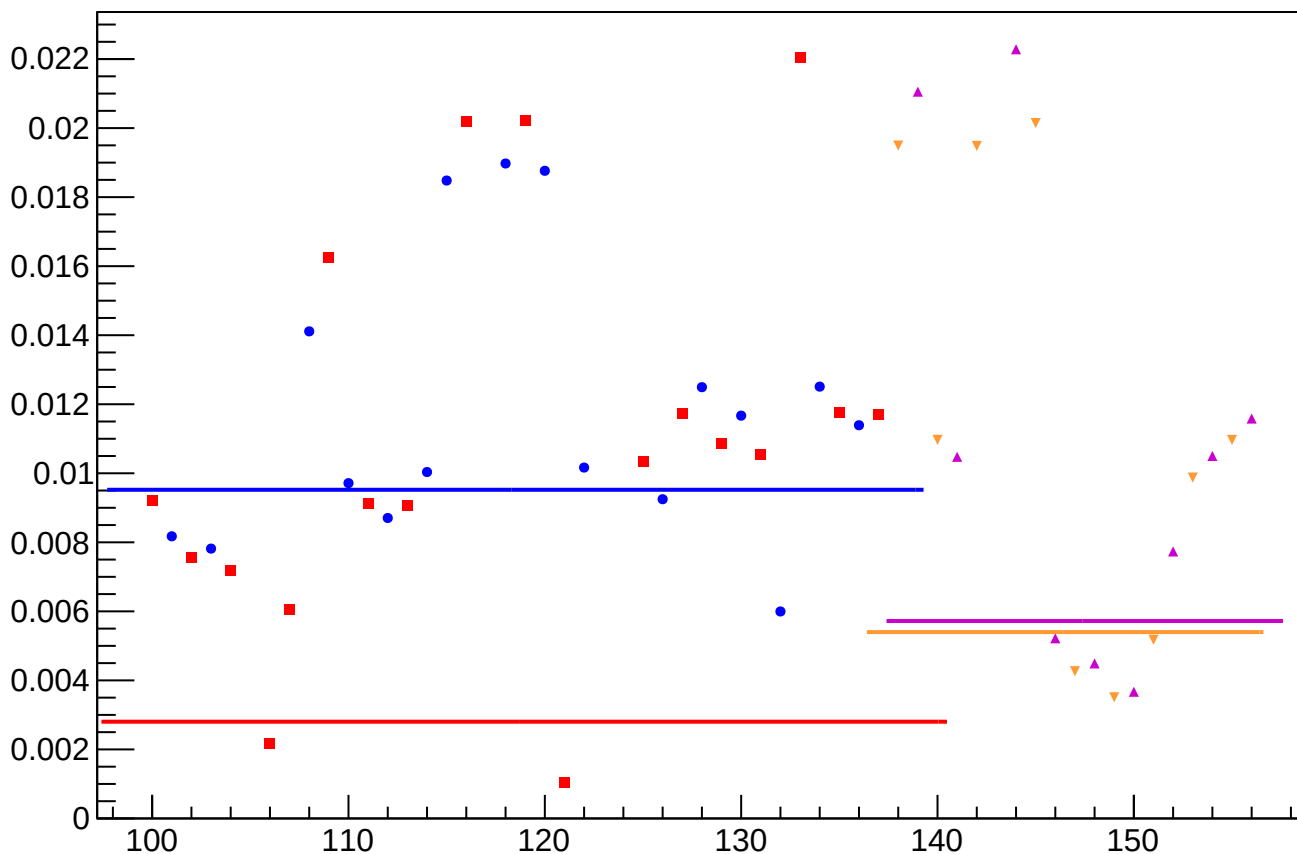
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 38.7/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 29.7/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 35.3/26$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 66.1/51$

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: 0.005+/-0.000 χ^2/NDF : 3843198.1/8

Right Out: 0.003+/-0.000 χ^2/NDF : 8568874.3/17

Left In: 0.006+/-0.000 χ^2/NDF : 3827631.8/8

Left: 0.006+/-0.000 χ^2/NDF : 7688568.7/17

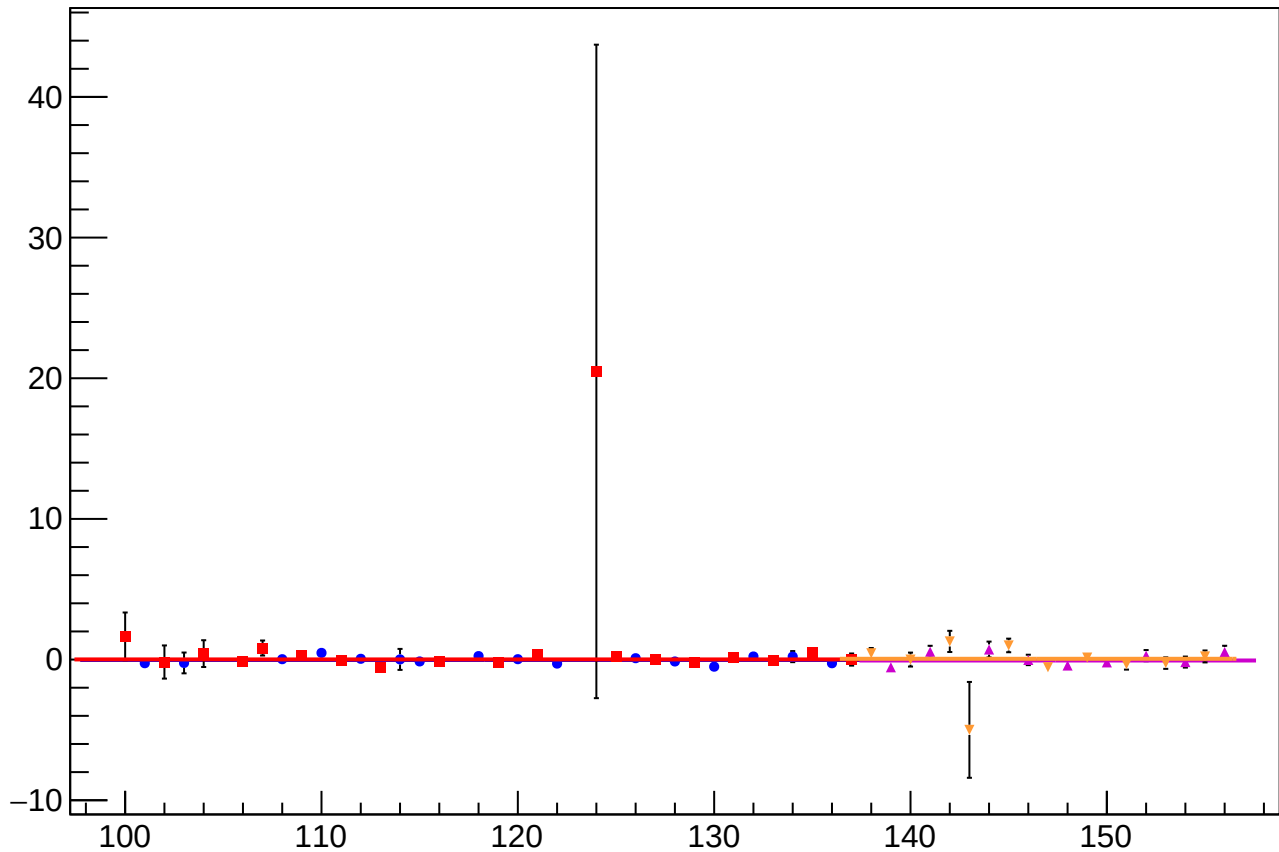
Right: 0.004+/-0.000 χ^2/NDF : 15020072.2/33

In: 0.007+/-0.000 χ^2/NDF : 6417545.5/24

Out: 0.004+/-0.000 χ^2/NDF : 13937393.5/26

All: 0.005+/-0.000 χ^2/NDF : 23646458.1/51

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: 0.056 ± 0.136 χ^2/NDF : 15.0/9

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.065 ± 0.124 χ^2/NDF : 11.3/8

Left: -0.010 ± 0.092 χ^2/NDF : 26.8/18

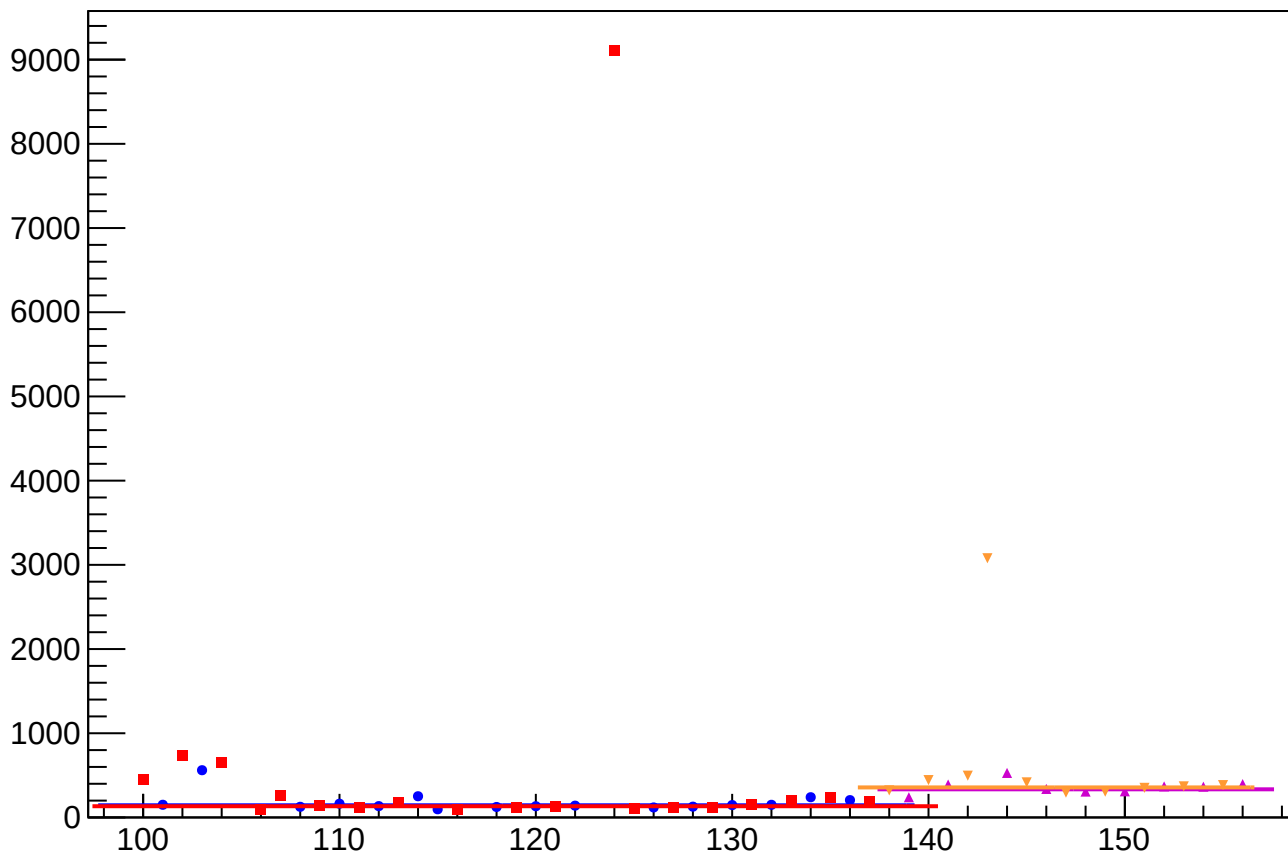
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.035 ± 0.052 χ^2/NDF : 28.6/24

Out: 0.017 ± 0.052 χ^2/NDF : 36.9/28

All: -0.009 ± 0.037 χ^2/NDF : 66.0/53

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: 356.663+/-0.096 χ^2/NDF : 1582720.1/9

Right Out: 133.253+/-0.040 χ^2/NDF : 2220606.0/18

Left In: 334.175+/-0.087 χ^2/NDF : 607672.4/8

Left: 344.325+/-0.065 χ^2/NDF : 2220309.5/18

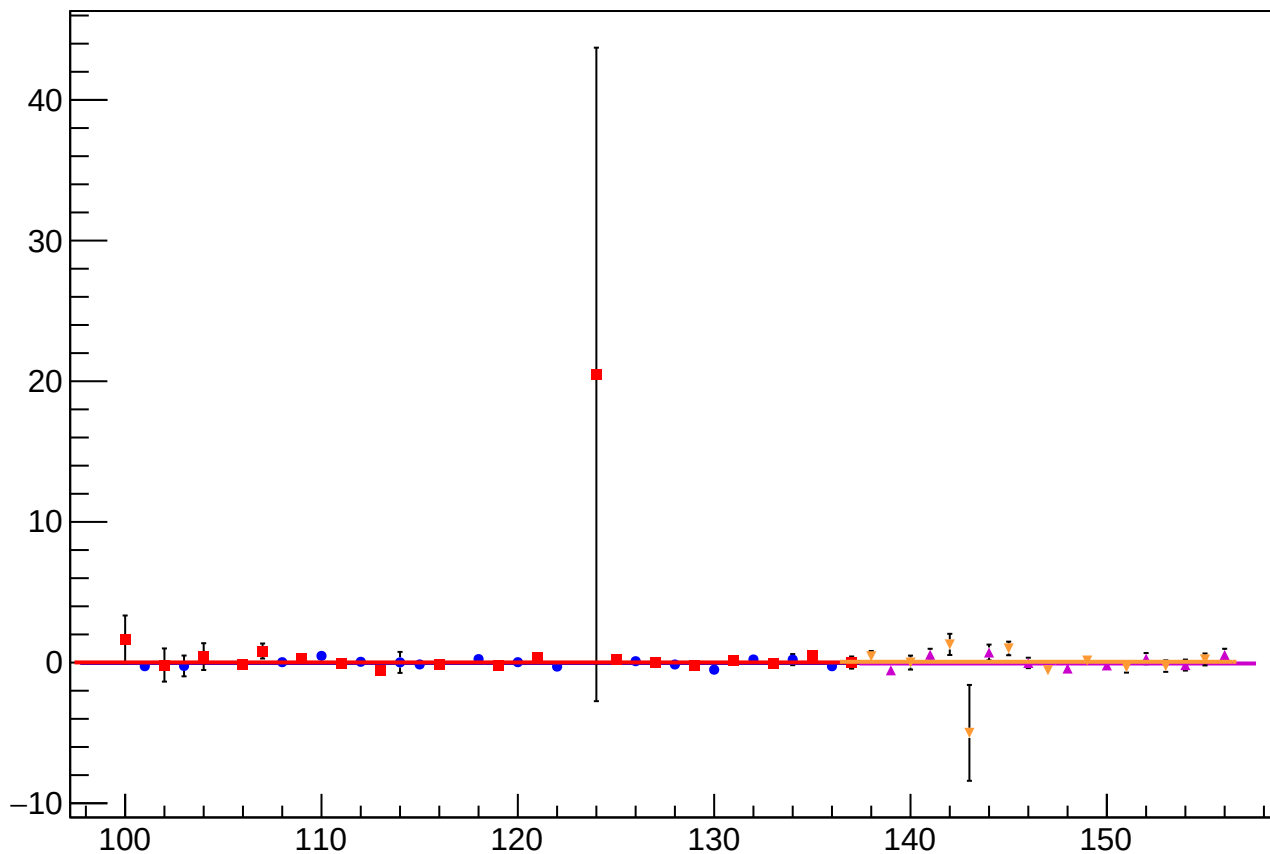
Right: 138.644+/-0.029 χ^2/NDF : 3386673.9/34

In: 178.421+/-0.037 χ^2/NDF : 5612825.0/24

Out: 166.066+/-0.037 χ^2/NDF : 8394310.7/28

All: 172.223+/-0.026 χ^2/NDF : 14062977.9/53

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: 0.056 ± 0.136 $\chi^2/\text{NDF}: 15.0/9$

Right Out: 0.011 ± 0.057 $\chi^2/\text{NDF}: 21.8/18$

Left In: -0.065 ± 0.124 $\chi^2/\text{NDF}: 11.3/8$

Left: -0.010 ± 0.092 $\chi^2/\text{NDF}: 26.8/18$

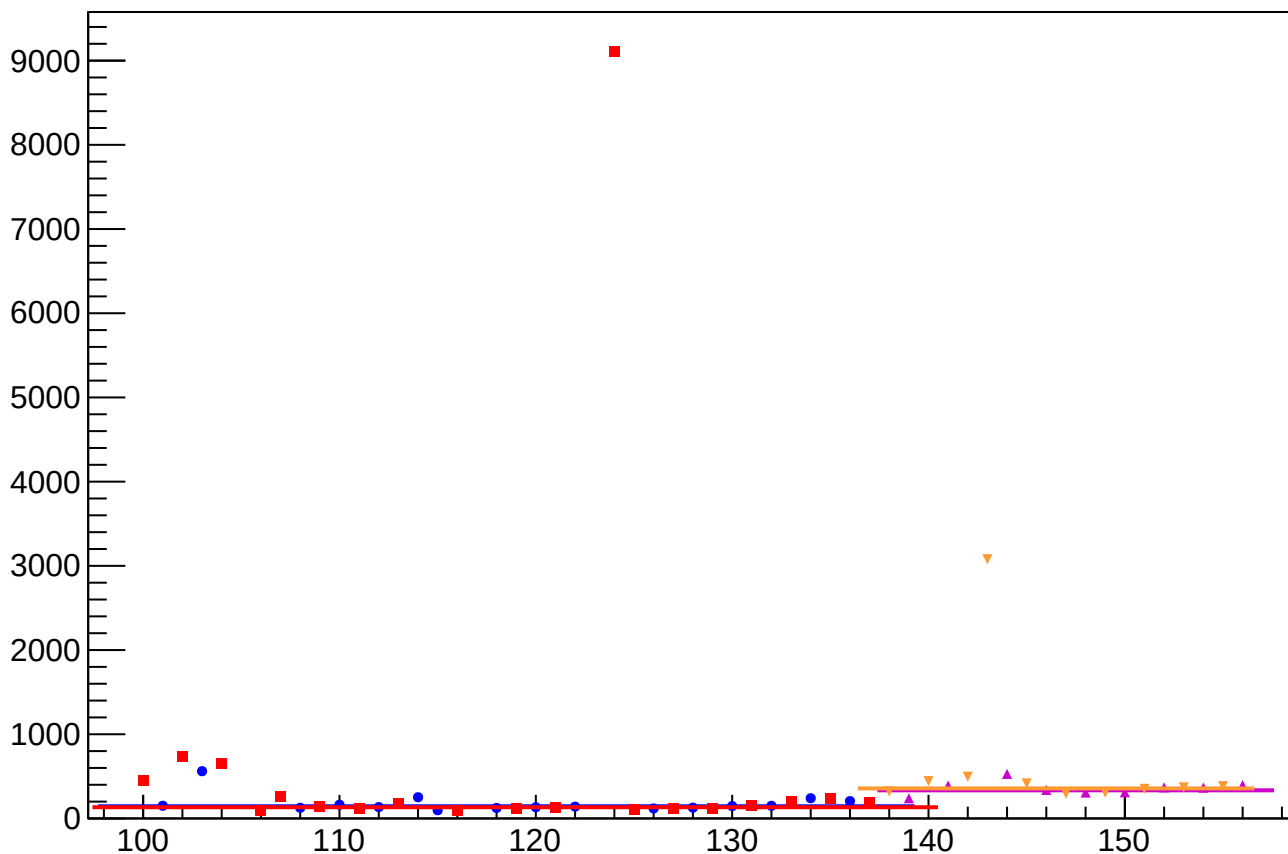
Right: -0.009 ± 0.040 $\chi^2/\text{NDF}: 39.3/34$

In: -0.035 ± 0.052 $\chi^2/\text{NDF}: 28.6/24$

Out: 0.017 ± 0.052 $\chi^2/\text{NDF}: 36.9/28$

All: -0.009 ± 0.037 $\chi^2/\text{NDF}: 66.0/53$

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.289 $\pm$ 0.041 χ^2 /NDF: 1128804.3/15

Left Out: 356.663 $\pm$ 0.096 χ^2 /NDF: 1582720.1/9

Right Out: 133.253 $\pm$ 0.040 χ^2 /NDF: 2220606.0/18

Left In: 334.175 $\pm$ 0.087 χ^2 /NDF: 607672.4/8

Left: 344.325 $\pm$ 0.065 χ^2 /NDF: 2220309.5/18

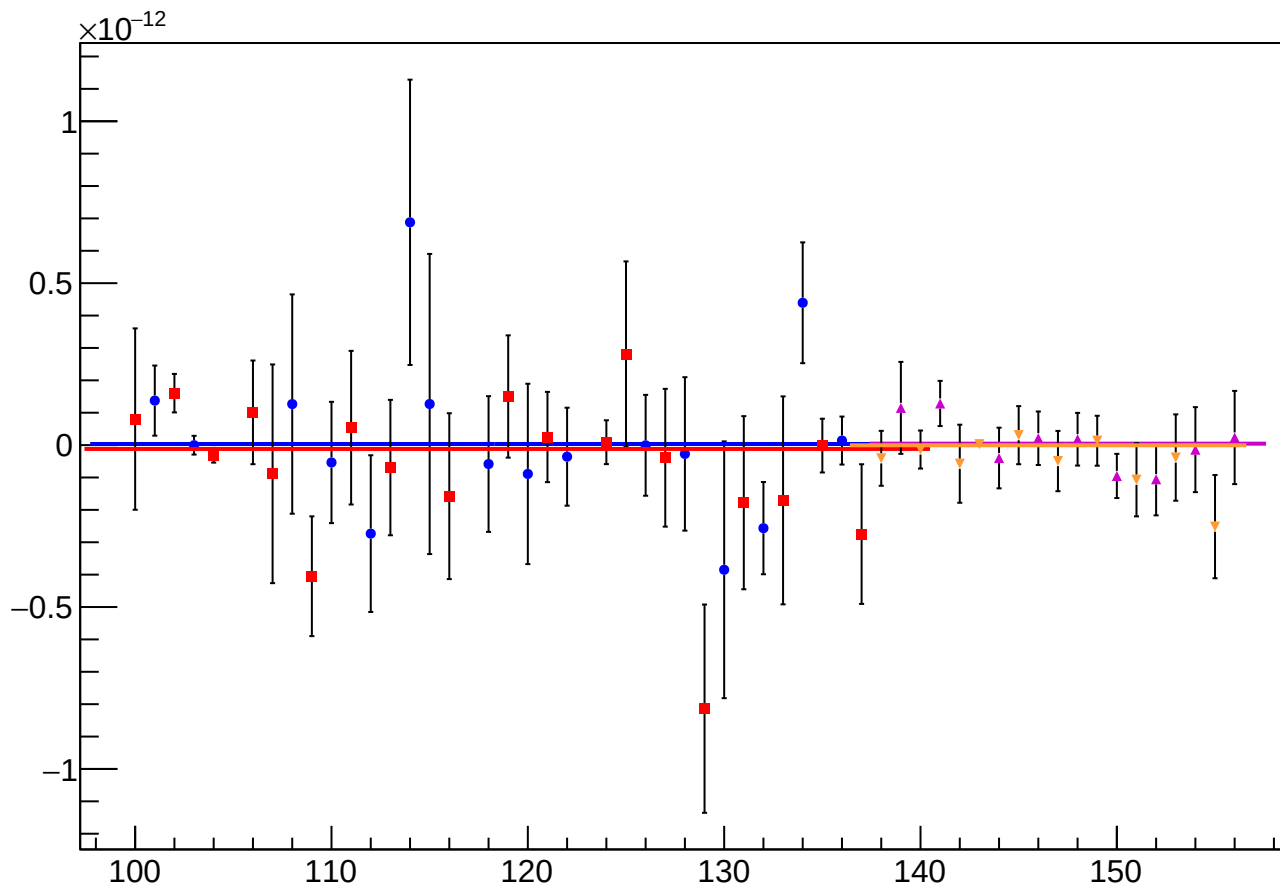
Right: 138.644 $\pm$ 0.029 χ^2 /NDF: 3386673.9/34

In: 178.421 $\pm$ 0.037 χ^2 /NDF: 5612825.0/24

Out: 166.066 $\pm$ 0.037 χ^2 /NDF: 8394310.7/28

All: 172.223 $\pm$ 0.026 χ^2 /NDF: 14062977.9/53

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 : 4.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 25.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 7.2/8

Left: -0.000+/-0.000 χ^2/NDF : 11.7/18

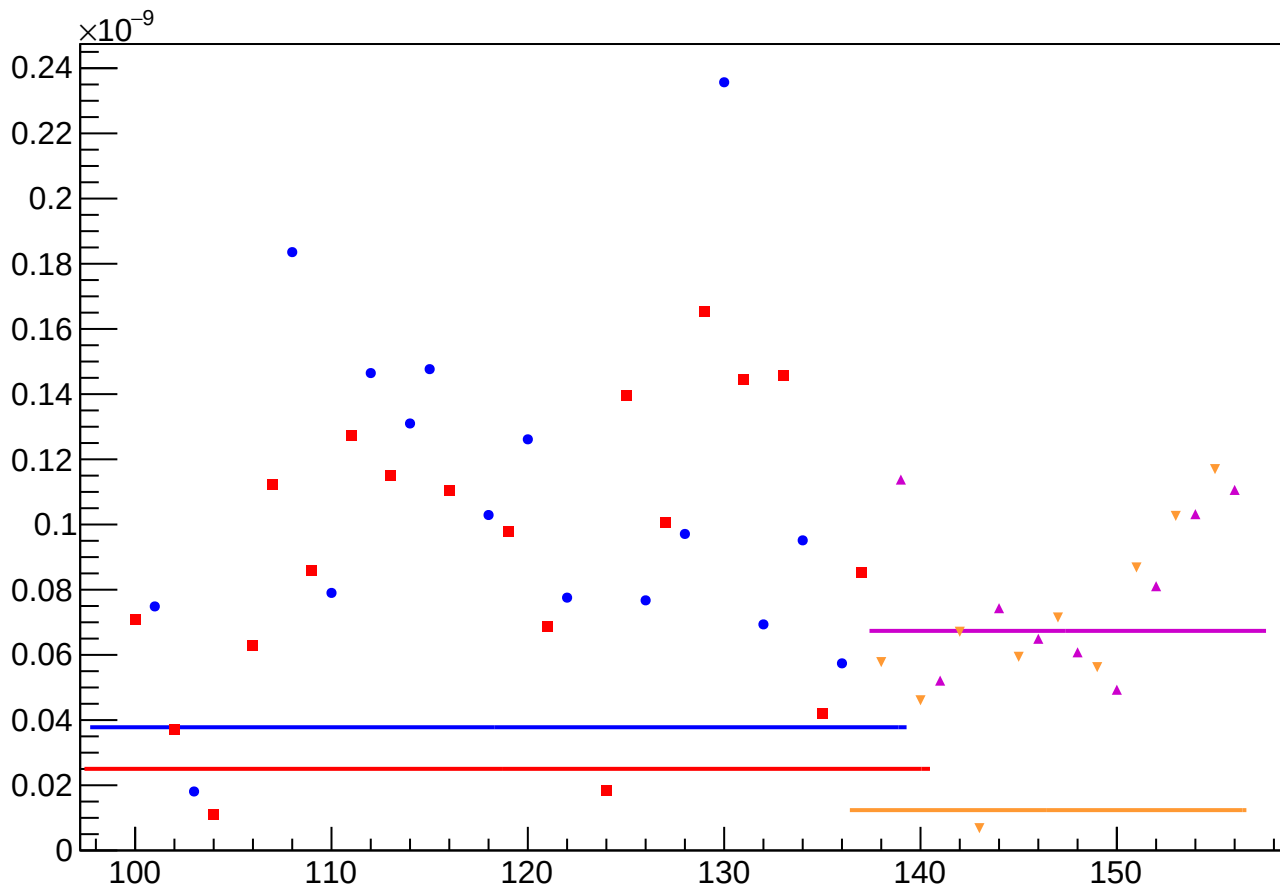
Right: -0.000+/-0.000 χ^2/NDF : 41.0/34

In: 0.000+/-0.000 χ^2/NDF : 22.8/24

Out: -0.000+/-0.000 χ^2/NDF : 29.9/28

All: -0.000+/-0.000 χ^2/NDF : 52.8/53

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 : 6903143.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4701757.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 835028.2/8

Left: 0.000+/-0.000 χ^2/NDF : 13627032.5/18

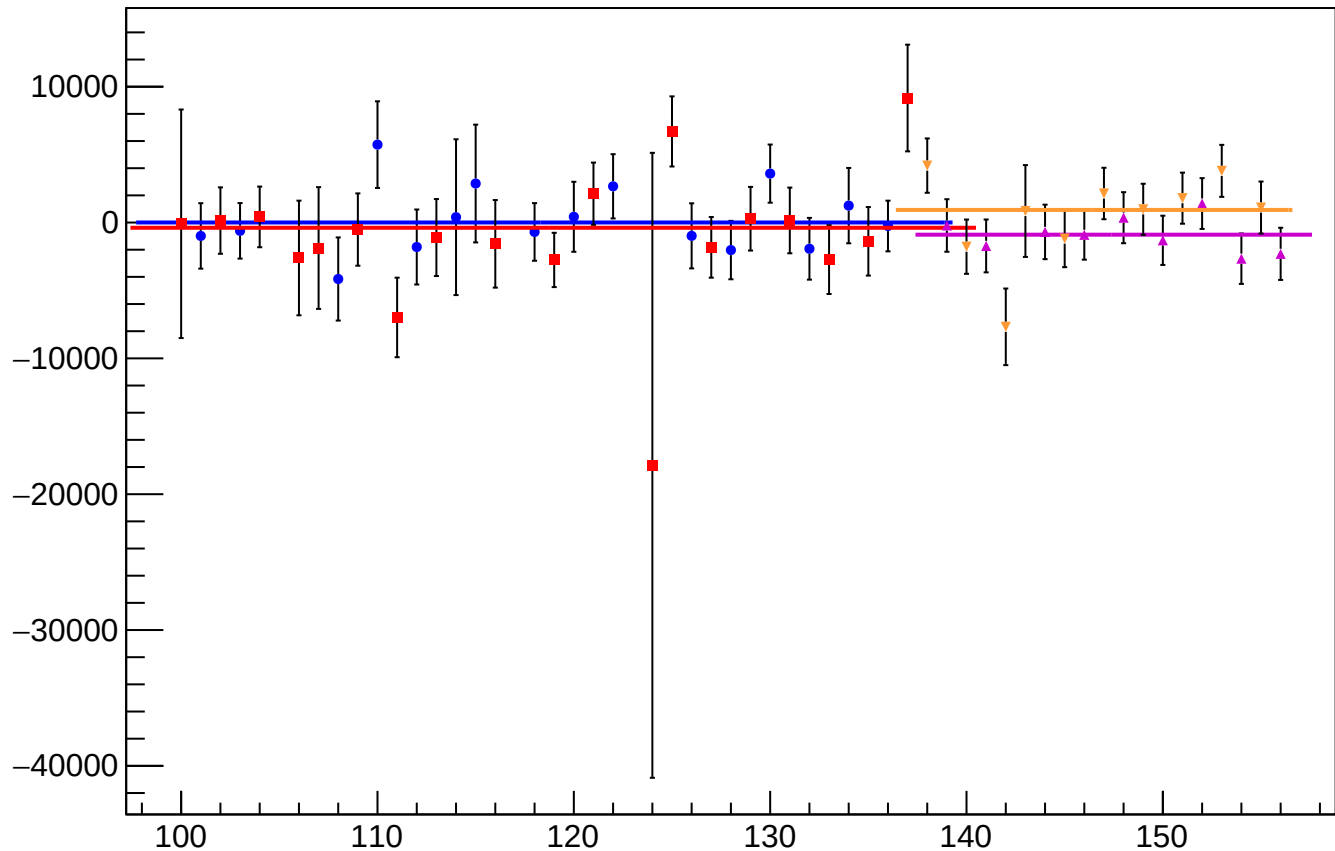
Right: 0.000+/-0.000 χ^2/NDF : 8999957.7/34

In: 0.000+/-0.000 χ^2/NDF : 5936778.5/24

Out: 0.000+/-0.000 χ^2/NDF : 12342782.9/28

All: 0.000+/-0.000 χ^2/NDF : 23691631.9/53

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.373 ± 619.905 χ^2/NDF : 12.4/15

Left Out: 928.491 ± 655.358 χ^2/NDF : 17.7/9

Right Out: -384.758 ± 633.682 χ^2/NDF : 24.1/18

Left In: -894.438 ± 630.745 χ^2/NDF : 3.8/8

Left: -17.847 ± 454.457 χ^2/NDF : 25.5/18

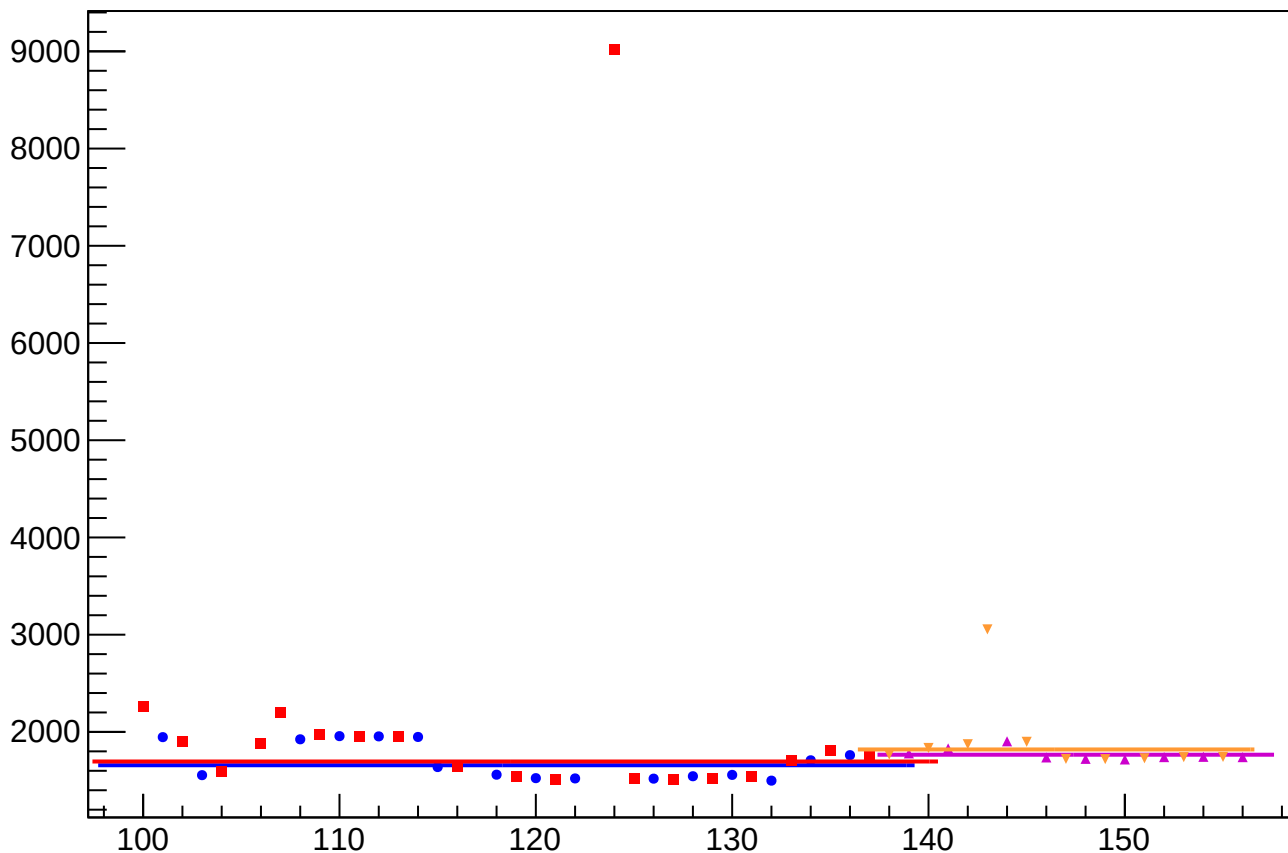
Right: -185.916 ± 443.130 χ^2/NDF : 36.7/34

In: -437.243 ± 442.122 χ^2/NDF : 17.2/24

Out: 249.790 ± 455.551 χ^2/NDF : 43.8/28

All: -104.002 ± 317.269 χ^2/NDF : 62.2/53

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.4/15

Left Out: 1819.506+/-0.463 χ^2/NDF : 293957.8/9

Right Out: 1695.649+/-0.446 χ^2/NDF : 386216.2/18

Left In: 1765.394+/-0.446 χ^2/NDF : 15651.5/8

Left: 1791.415+/-0.321 χ^2/NDF : 316687.8/18

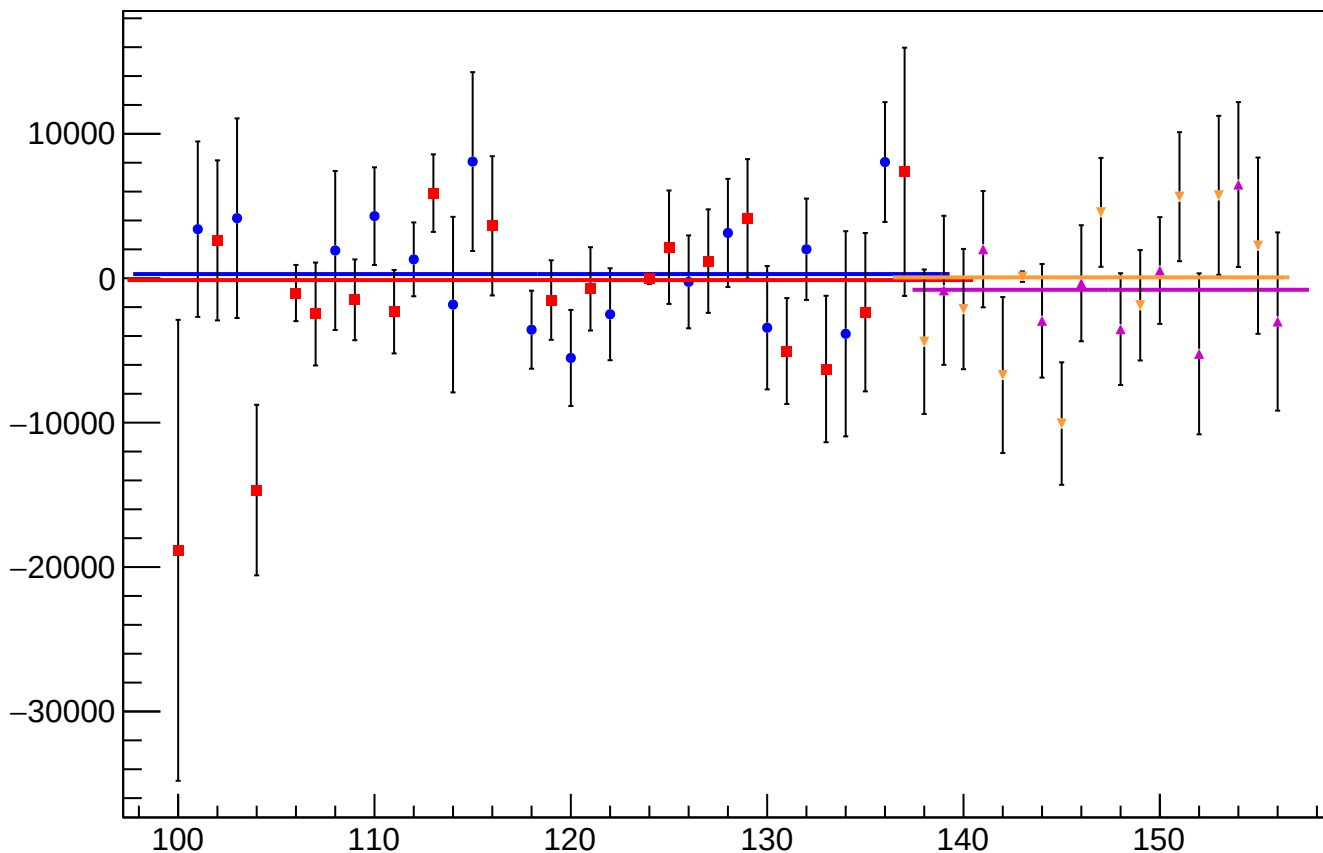
Right: 1676.049+/-0.313 χ^2/NDF : 533994.7/34

In: 1710.318+/-0.313 χ^2/NDF : 189612.6/24

Out: 1755.210+/-0.321 χ^2/NDF : 717257.4/28

All: 1732.146+/-0.224 χ^2/NDF : 916896.2/53

asym_atl_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 289.262 ± 961.071 $\chi^2/\text{NDF}: 15.2/15$

Left Out: 59.194 ± 354.032 $\chi^2/\text{NDF}: 12.8/9$

Right Out: -125.586 ± 323.715 $\chi^2/\text{NDF}: 20.8/18$

Left In: -798.738 ± 1482.753 $\chi^2/\text{NDF}: 3.8/8$

Left: 12.922 ± 344.352 $\chi^2/\text{NDF}: 16.9/18$

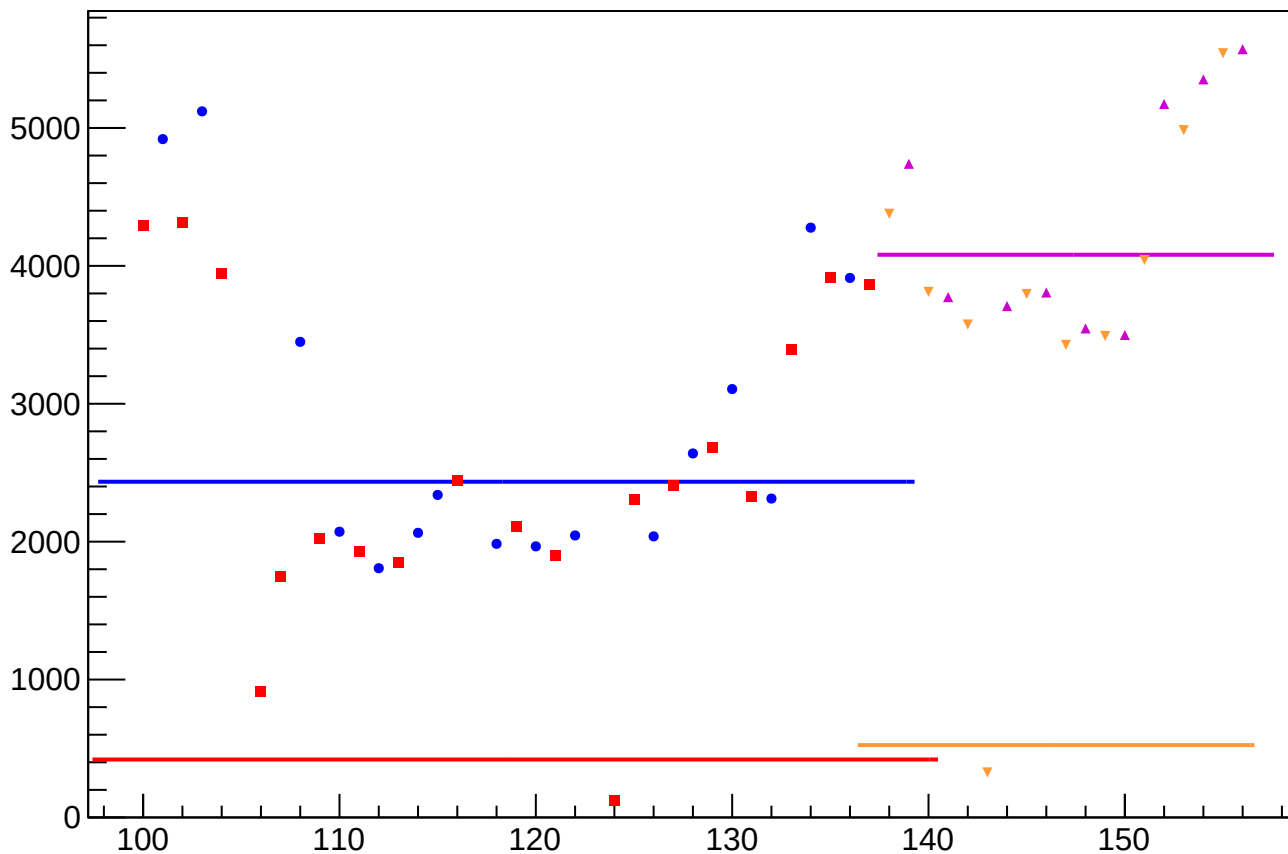
Right: -83.316 ± 306.780 $\chi^2/\text{NDF}: 36.2/34$

In: -32.606 ± 806.479 $\chi^2/\text{NDF}: 19.4/24$

Out: -41.445 ± 238.901 $\chi^2/\text{NDF}: 33.8/28$

All: -40.732 ± 229.062 $\chi^2/\text{NDF}: 53.2/53$

asym_atl_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2434.593 $\pm$ 0.680 χ^2/NDF : 1457721.5/15

Left Out: 524.822 $\pm$ 0.250 χ^2/NDF : 11144521.5/9

Right Out: 420.292 $\pm$ 0.229 χ^2/NDF : 11063973.9/18

Left In: 4080.553 $\pm$ 1.048 χ^2/NDF : 452115.3/8

Left: 716.599 $\pm$ 0.243 χ^2/NDF : 22477704.8/18

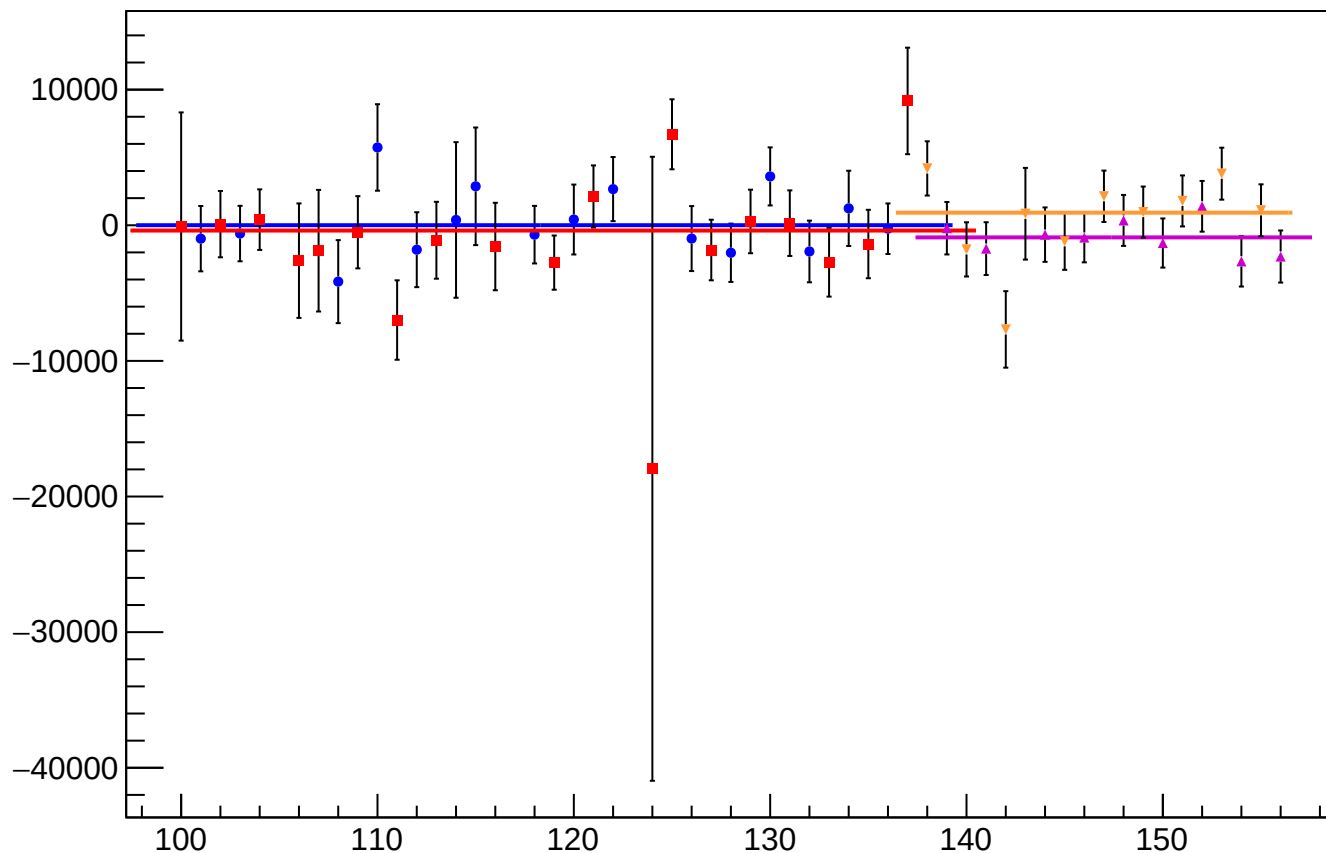
Right: 625.534 $\pm$ 0.217 χ^2/NDF : 20412045.5/34

In: 2921.524 $\pm$ 0.570 χ^2/NDF : 3645263.0/24

Out: 467.891 $\pm$ 0.169 χ^2/NDF : 22303454.8/28

All: 665.829 $\pm$ 0.162 χ^2/NDF : 42967730.0/53

cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 ± 619.905 χ^2/NDF : 12.4/15

Left Out: 928.359 ± 655.358 χ^2/NDF : 17.7/9

Right Out: -389.054 ± 633.688 χ^2/NDF : 24.0/18

Left In: -894.426 ± 630.746 χ^2/NDF : 3.8/8

Left: -17.904 ± 454.457 χ^2/NDF : 25.5/18

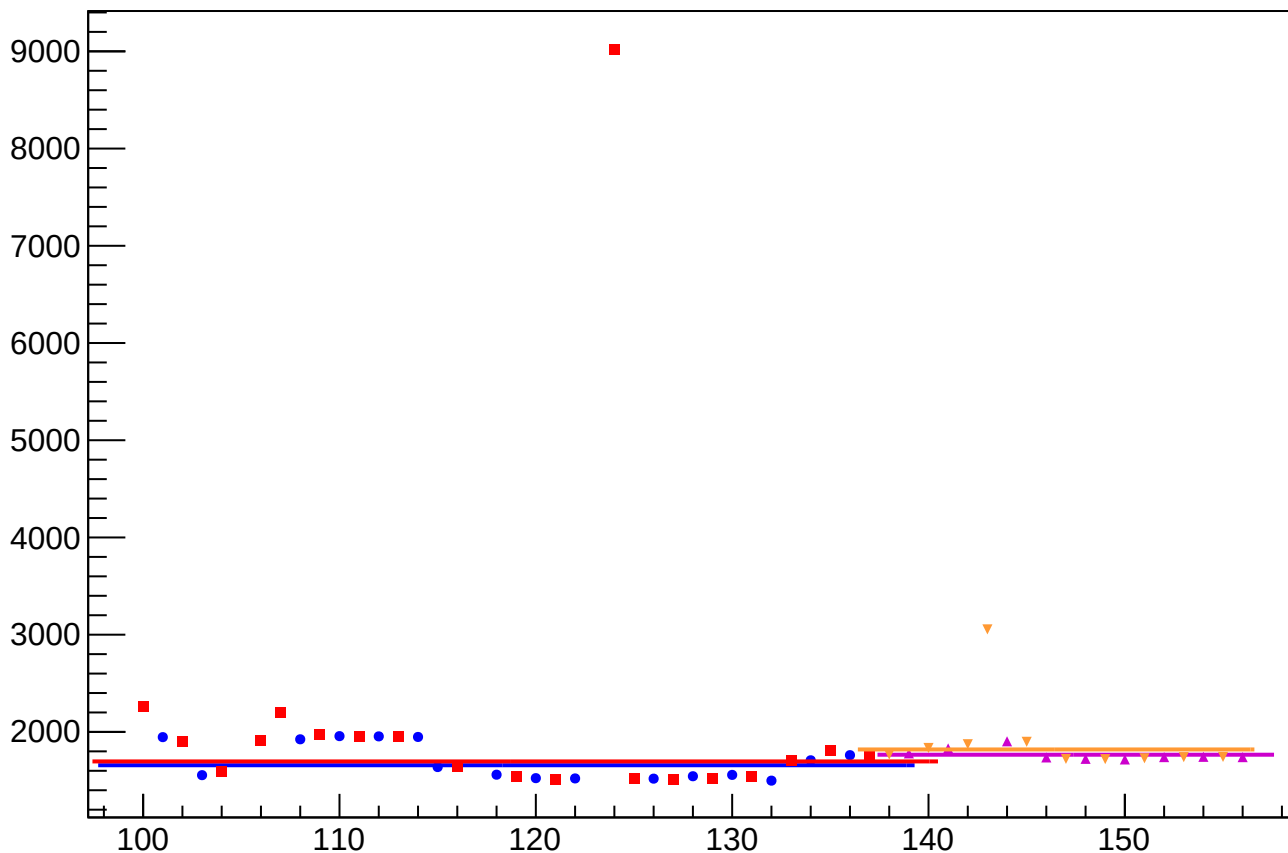
Right: -188.056 ± 443.132 χ^2/NDF : 36.7/34

In: -437.276 ± 442.122 χ^2/NDF : 17.2/24

Out: 247.512 ± 455.554 χ^2/NDF : 43.8/28

All: -105.126 ± 317.270 χ^2/NDF : 62.2/53

cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119 $\pm$ 0.438 χ^2 /NDF: 143982.5/15

Left Out: 1819.506 $\pm$ 0.463 χ^2 /NDF: 293957.8/9

Right Out: 1696.442 $\pm$ 0.446 χ^2 /NDF: 387974.4/18

Left In: 1765.394 $\pm$ 0.446 χ^2 /NDF: 15651.5/8

Left: 1791.415 $\pm$ 0.321 χ^2 /NDF: 316687.8/18

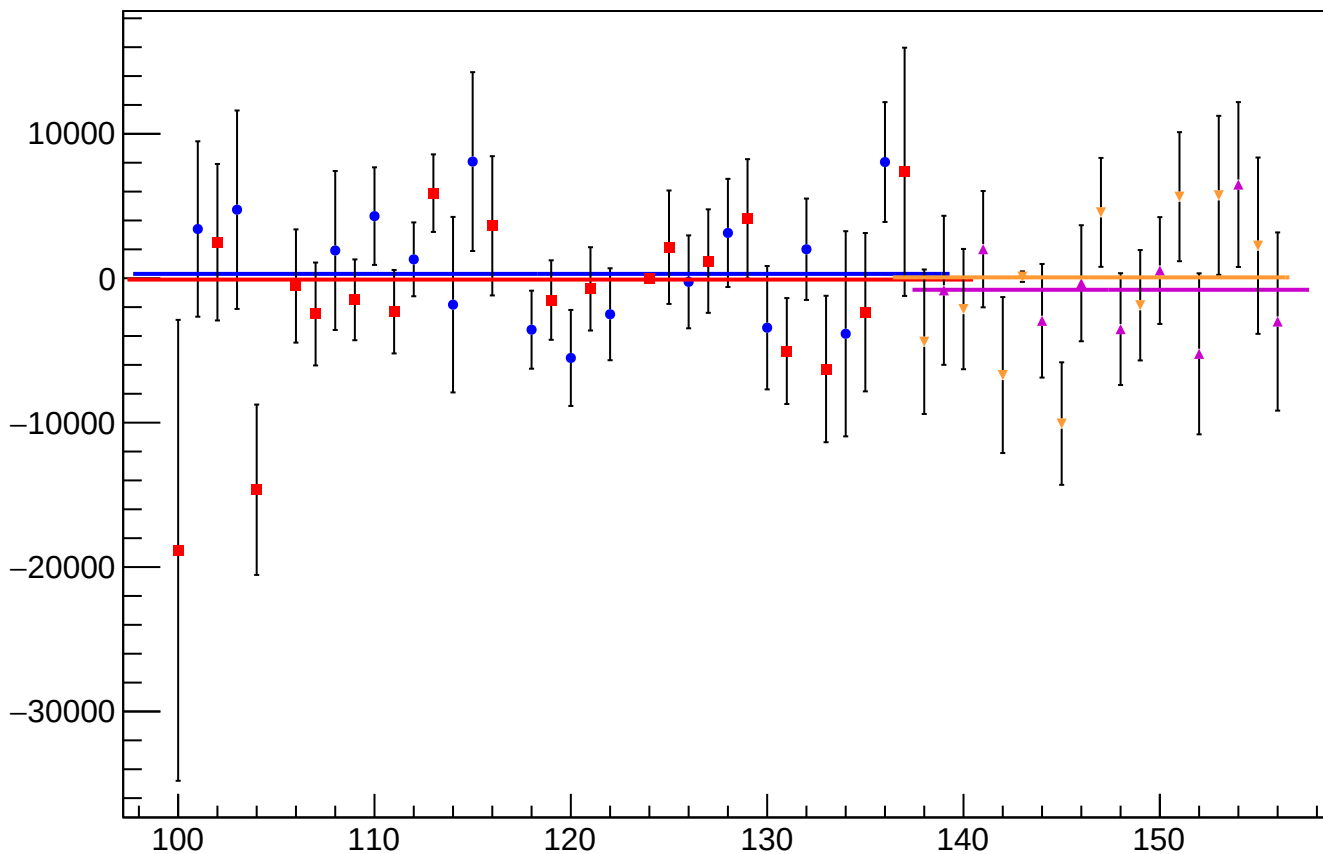
Right: 1676.430 $\pm$ 0.313 χ^2 /NDF: 535909.0/34

In: 1710.318 $\pm$ 0.313 χ^2 /NDF: 189612.7/24

Out: 1755.652 $\pm$ 0.321 χ^2 /NDF: 718525.1/28

All: 1732.355 $\pm$ 0.224 χ^2 /NDF: 918359.5/53

asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839 $\pm$ 960.952 χ^2 /NDF: 15.3/15

Left Out: 59.643 $\pm$ 354.005 χ^2 /NDF:12.8/9

Right Out: -92.243 $\pm$ 315.757 χ^2 /NDF: 20.6/18

Left In: -798.791 $\pm$ 1482.751 χ^2 /NDF:3.8/8

Left: 13.350 $\pm$ 344.328 χ^2 /NDF: 16.9/18

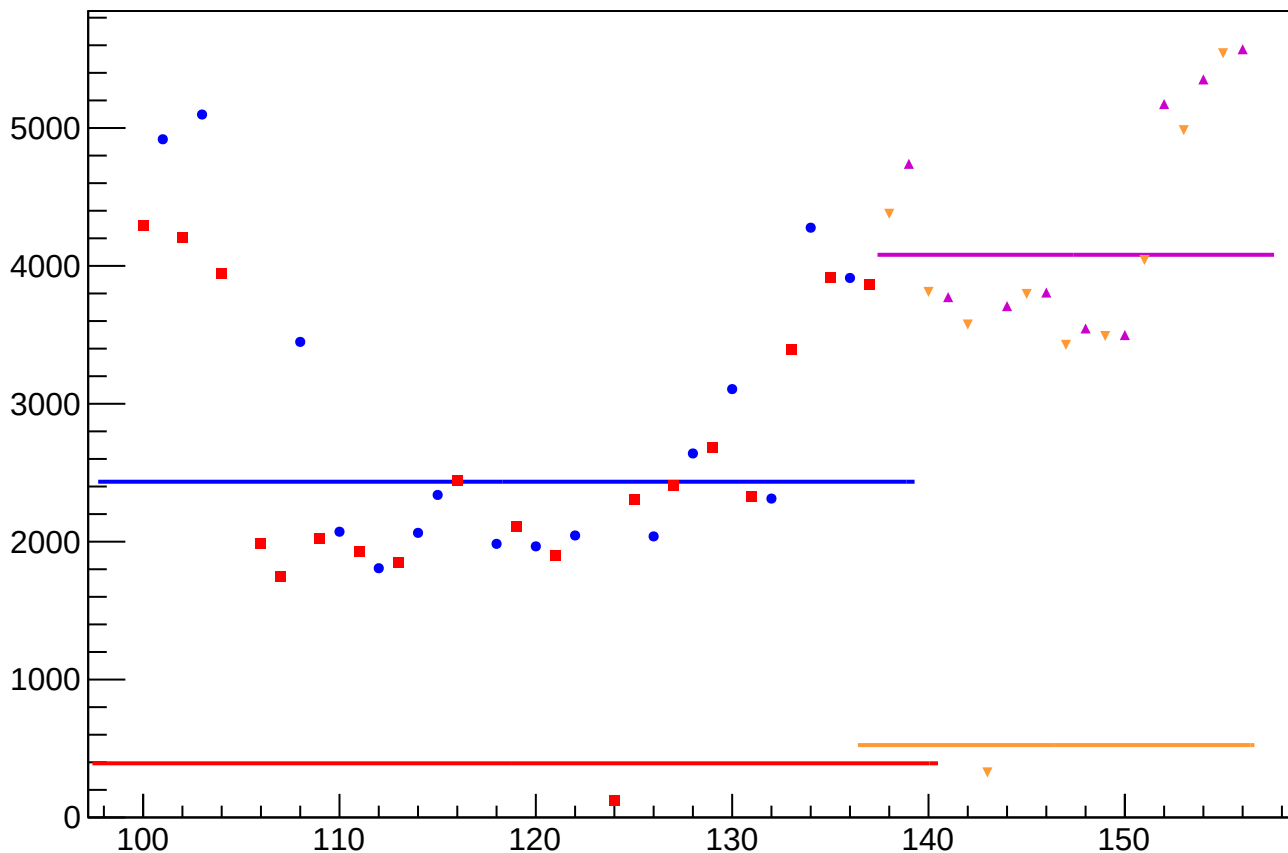
Right: -53.840 $\pm$ 299.978 χ^2 /NDF: 36.1/34

In: -23.709 $\pm$ 806.408 χ^2 /NDF:19.5/24

Out: -24.946 $\pm$ 235.641 χ^2 /NDF:33.5/28

All: -24.848 $\pm$ 226.182 χ^2 /NDF: 53.1/53

asym_atl_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2434.758 $\pm$ 0.679 χ^2 /NDF: 1456027.7/15

Left Out: 524.765 $\pm$ 0.250 χ^2 /NDF: 11144783.7/9

Right Out: 392.666 $\pm$ 0.223 χ^2 /NDF: 11408006.3/18

Left In: 4080.550 $\pm$ 1.048 χ^2 /NDF: 452108.4/8

Left: 716.518 $\pm$ 0.243 χ^2 /NDF: 22478398.8/18

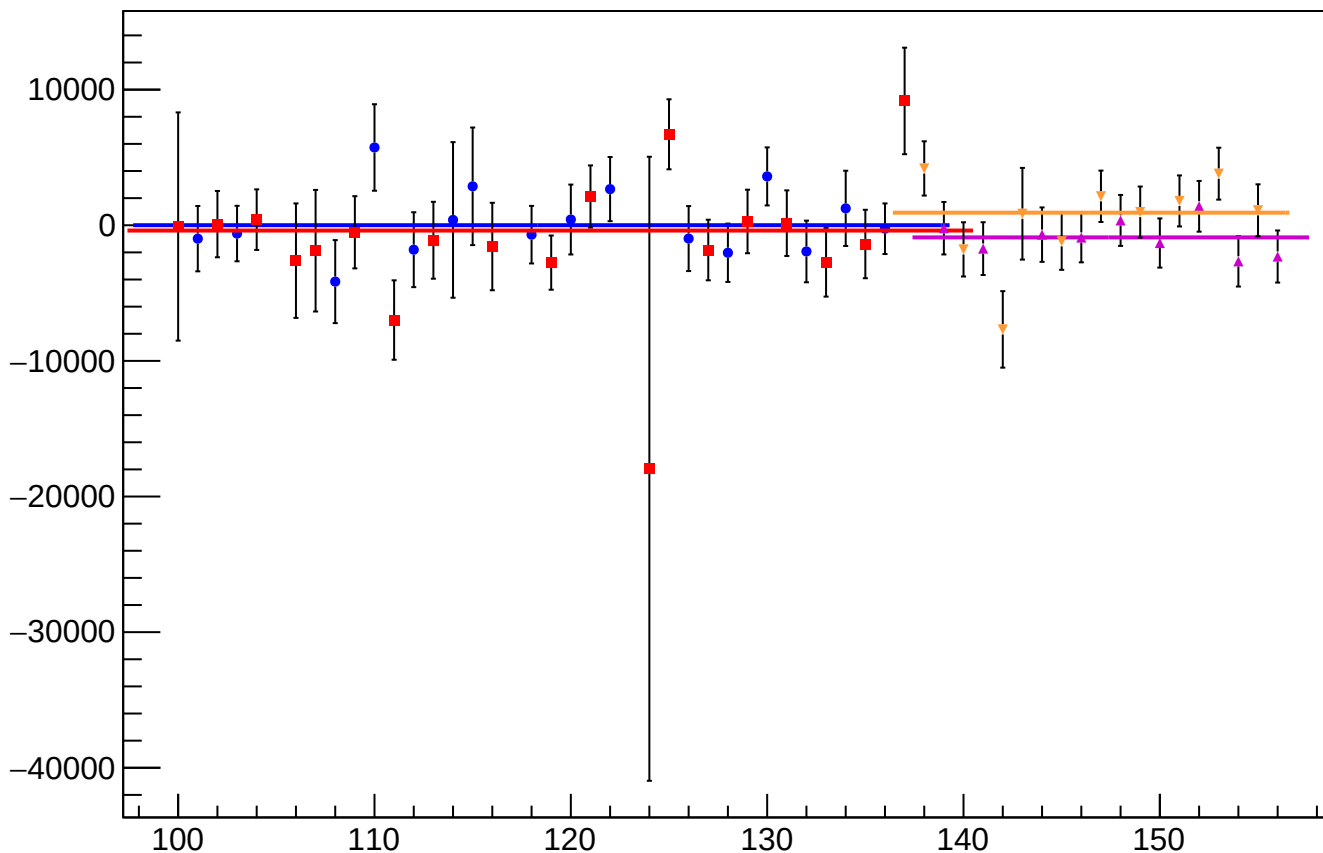
Right: 591.664 $\pm$ 0.212 χ^2 /NDF: 21015754.2/34

In: 2921.556 $\pm$ 0.570 χ^2 /NDF: 3643336.1/24

Out: 451.196 $\pm$ 0.167 χ^2 /NDF: 22707888.5/28

All: 645.538 $\pm$ 0.160 χ^2 /NDF: 43643648.8/53

eigen_cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 ± 619.905 $\chi^2/\text{NDF}: 12.4/15$

Left Out: 928.359 ± 655.358 $\chi^2/\text{NDF}: 17.7/9$

Right Out: -389.054 ± 633.688 $\chi^2/\text{NDF}: 24.0/18$

Left In: -894.426 ± 630.746 $\chi^2/\text{NDF}: 3.8/8$

Left: -17.904 ± 454.457 $\chi^2/\text{NDF}: 25.5/18$

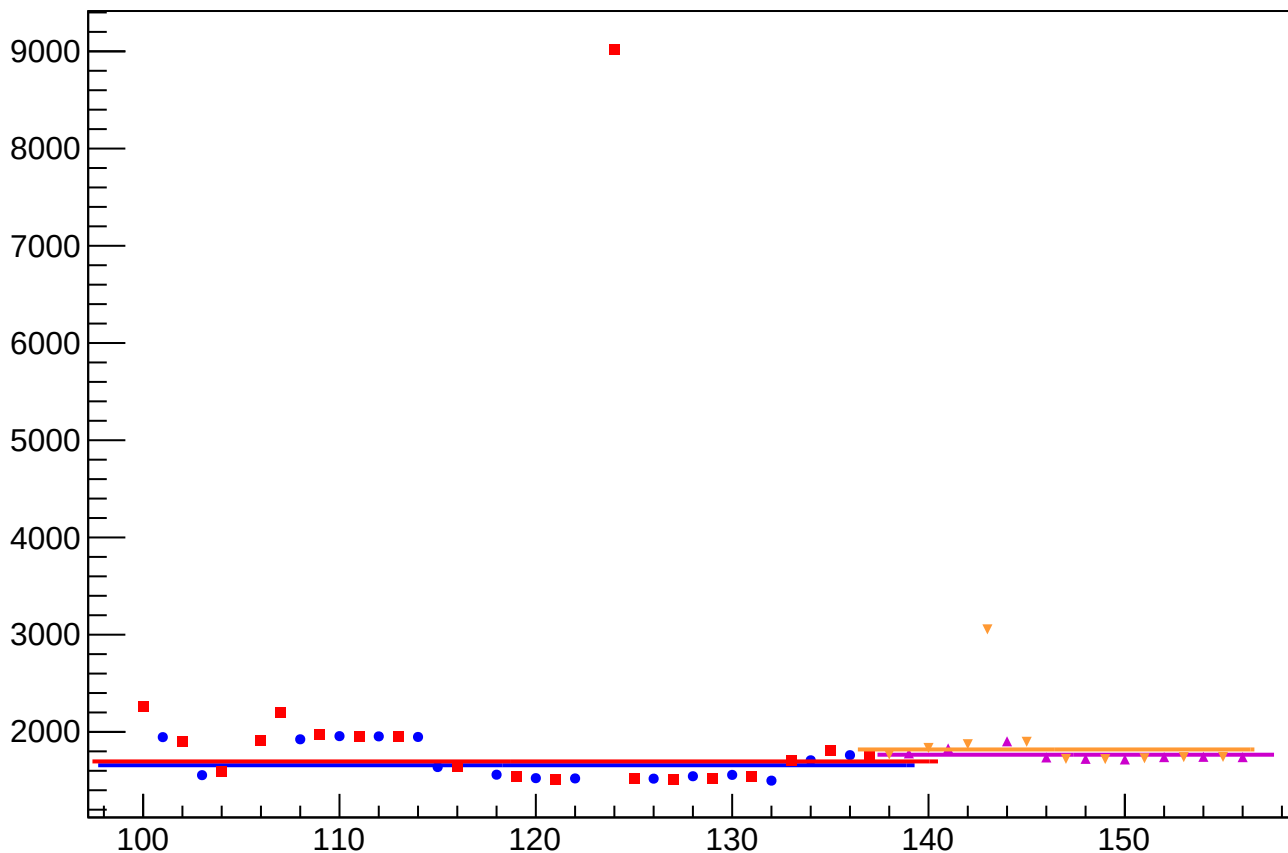
Right: -188.056 ± 443.132 $\chi^2/\text{NDF}: 36.7/34$

In: -437.276 ± 442.122 $\chi^2/\text{NDF}: 17.2/24$

Out: 247.512 ± 455.554 $\chi^2/\text{NDF}: 43.8/28$

All: -105.126 ± 317.270 $\chi^2/\text{NDF}: 62.2/53$

eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.5/15

Left Out: 1819.506+/-0.463 χ^2/NDF : 293957.8/9

Right Out: 1696.442+/-0.446 χ^2/NDF : 387974.4/18

Left In: 1765.394+/-0.446 χ^2/NDF : 15651.5/8

Left: 1791.415+/-0.321 χ^2/NDF : 316687.8/18

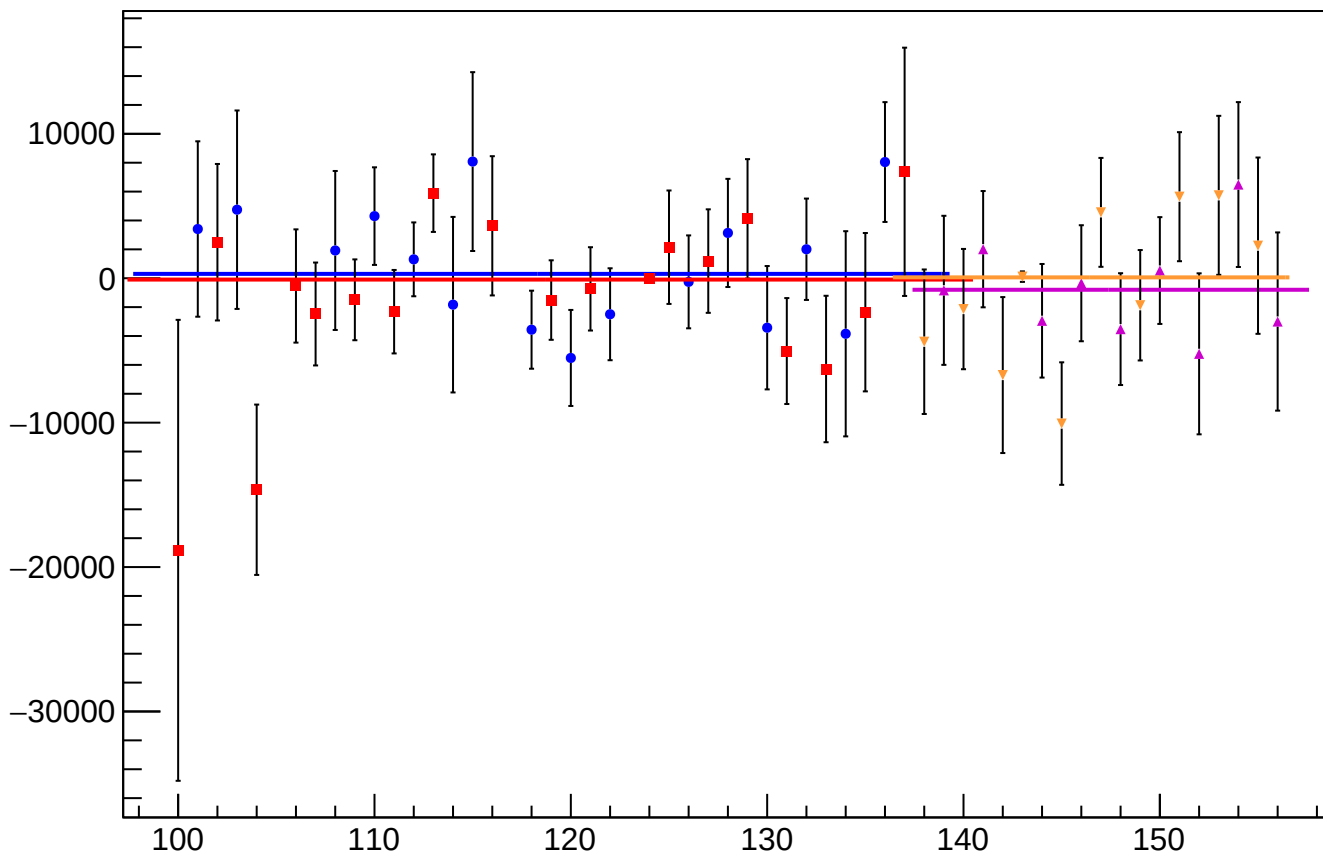
Right: 1676.430+/-0.313 χ^2/NDF : 535909.0/34

In: 1710.318+/-0.313 χ^2/NDF : 189612.7/24

Out: 1755.652+/-0.321 χ^2/NDF : 718525.1/28

All: 1732.355+/-0.224 χ^2/NDF : 918359.5/53

asym_atl_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839 $\pm$ 960.952 χ^2 /NDF: 15.3/15

Left Out: 59.643 $\pm$ 354.005 χ^2 /NDF:12.8/9

Right Out: -92.243 $\pm$ 315.757 χ^2 /NDF: 20.6/18

Left In: -798.791 $\pm$ 1482.751 χ^2 /NDF:3.8/8

Left: 13.350 $\pm$ 344.328 χ^2 /NDF: 16.9/18

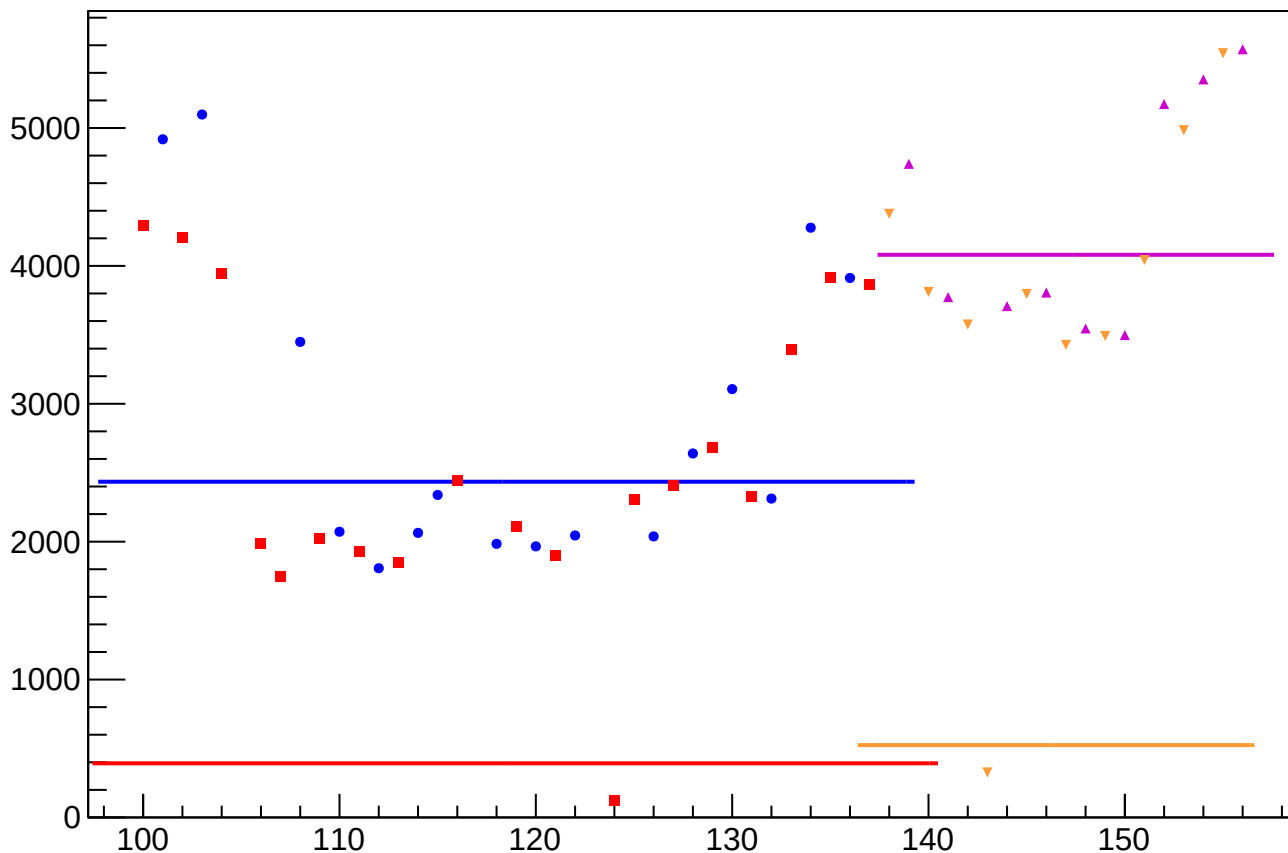
Right: -53.840 $\pm$ 299.978 χ^2 /NDF: 36.1/34

In: -23.709 $\pm$ 806.408 χ^2 /NDF:19.5/24

Out: -24.946 $\pm$ 235.641 χ^2 /NDF:33.5/28

All: -24.848 $\pm$ 226.182 χ^2 /NDF: 53.1/53

asym_atl_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2434.758+/-0.679 χ^2/NDF : 1456027.7/15

Left Out: 524.765+/-0.250 χ^2/NDF : 11144783.7/9

Right Out: 392.666+/-0.223 χ^2/NDF : 11408006.3/18

Left In: 4080.550+/-1.048 χ^2/NDF : 452108.4/8

Left: 716.518+/-0.243 χ^2/NDF : 22478398.8/18

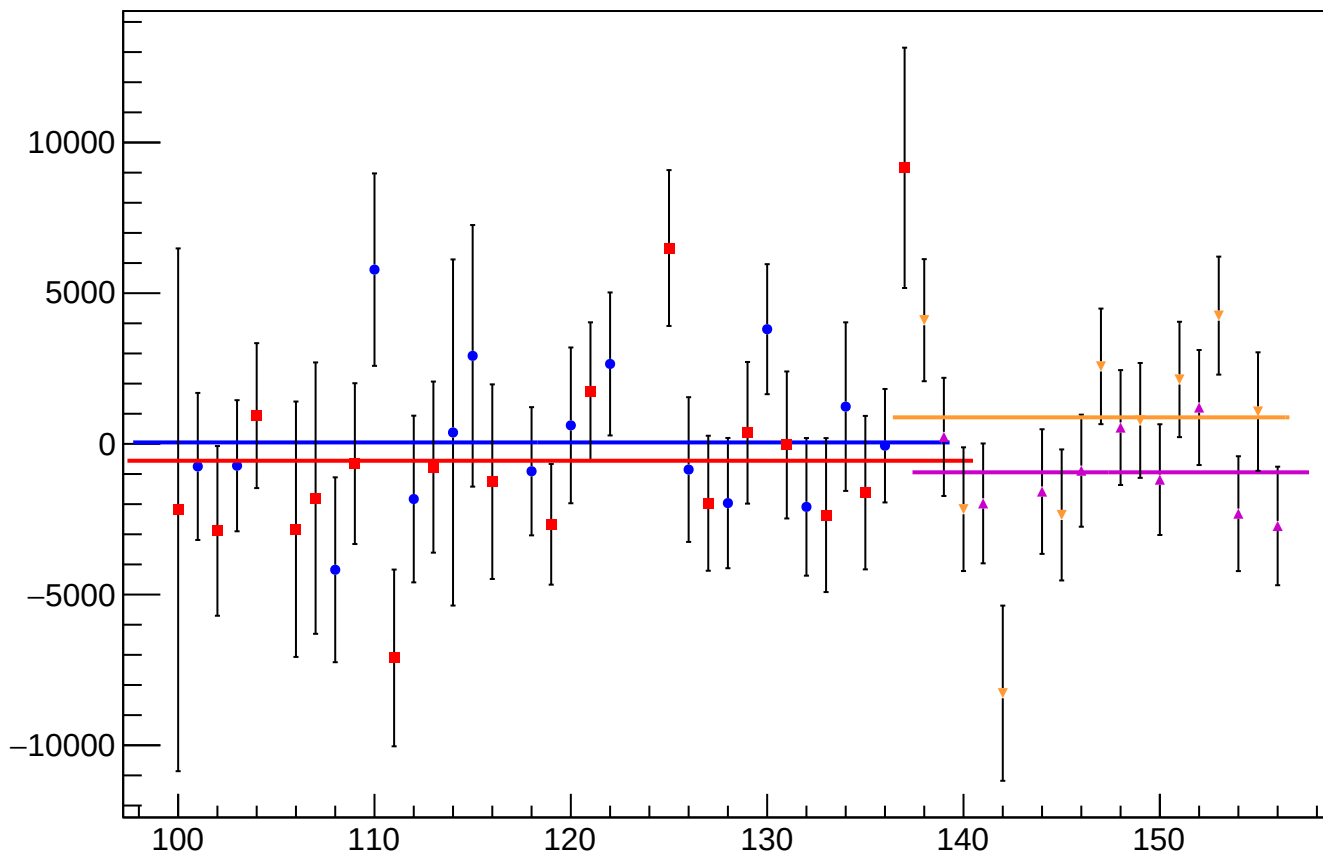
Right: 591.664+/-0.212 χ^2/NDF : 21015754.2/34

In: 2921.556+/-0.570 χ^2/NDF : 3643336.1/24

Out: 451.196+/-0.167 χ^2/NDF : 22707888.5/28

All: 645.538+/-0.160 χ^2/NDF : 43643648.8/53

dit_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 48.331 ± 626.151 $\chi^2/\text{NDF}: 12.8/15$

Left Out: 880.146 ± 681.831 $\chi^2/\text{NDF}: 21.1/8$

Right Out: -559.598 ± 645.291 $\chi^2/\text{NDF}: 23.3/17$

Left In: -943.556 ± 643.297 $\chi^2/\text{NDF}: 4.0/8$

Left: -84.693 ± 467.910 $\chi^2/\text{NDF}: 28.8/17$

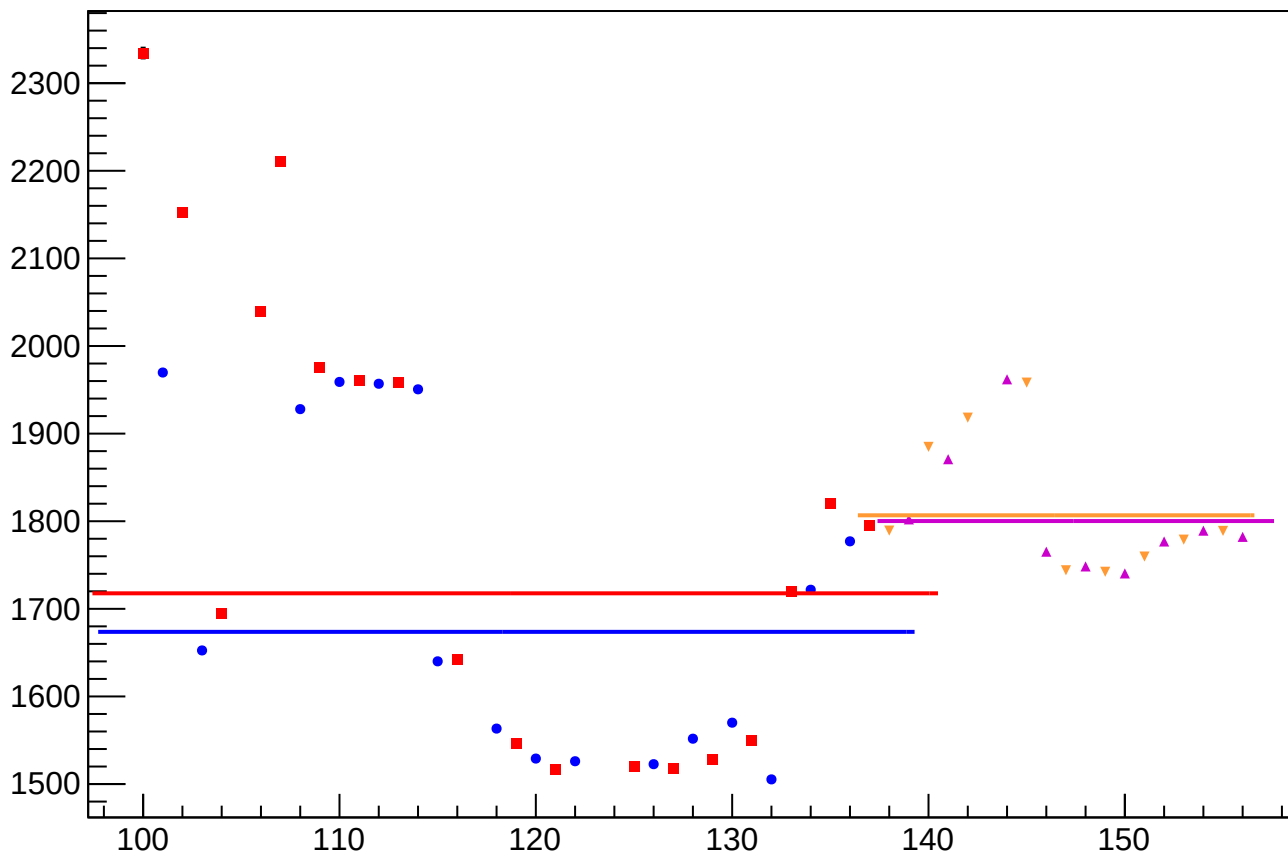
Right: -246.484 ± 449.370 $\chi^2/\text{NDF}: 36.5/33$

In: -434.218 ± 448.695 $\chi^2/\text{NDF}: 18.0/24$

Out: 120.663 ± 468.675 $\chi^2/\text{NDF}: 46.7/26$

All: -168.857 ± 324.109 $\chi^2/\text{NDF}: 65.4/51$

dit_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1673.729 +/- 0.443 χ^2/NDF : 140873.1/15

Left Out: 1806.763 +/- 0.482 χ^2/NDF : 21901.9/8

Right Out: 1717.713 +/- 0.455 χ^2/NDF : 227642.0/17

Left In: 1800.213 +/- 0.455 χ^2/NDF : 19601.9/8

Left: 1803.297 +/- 0.331 χ^2/NDF : 41601.4/17

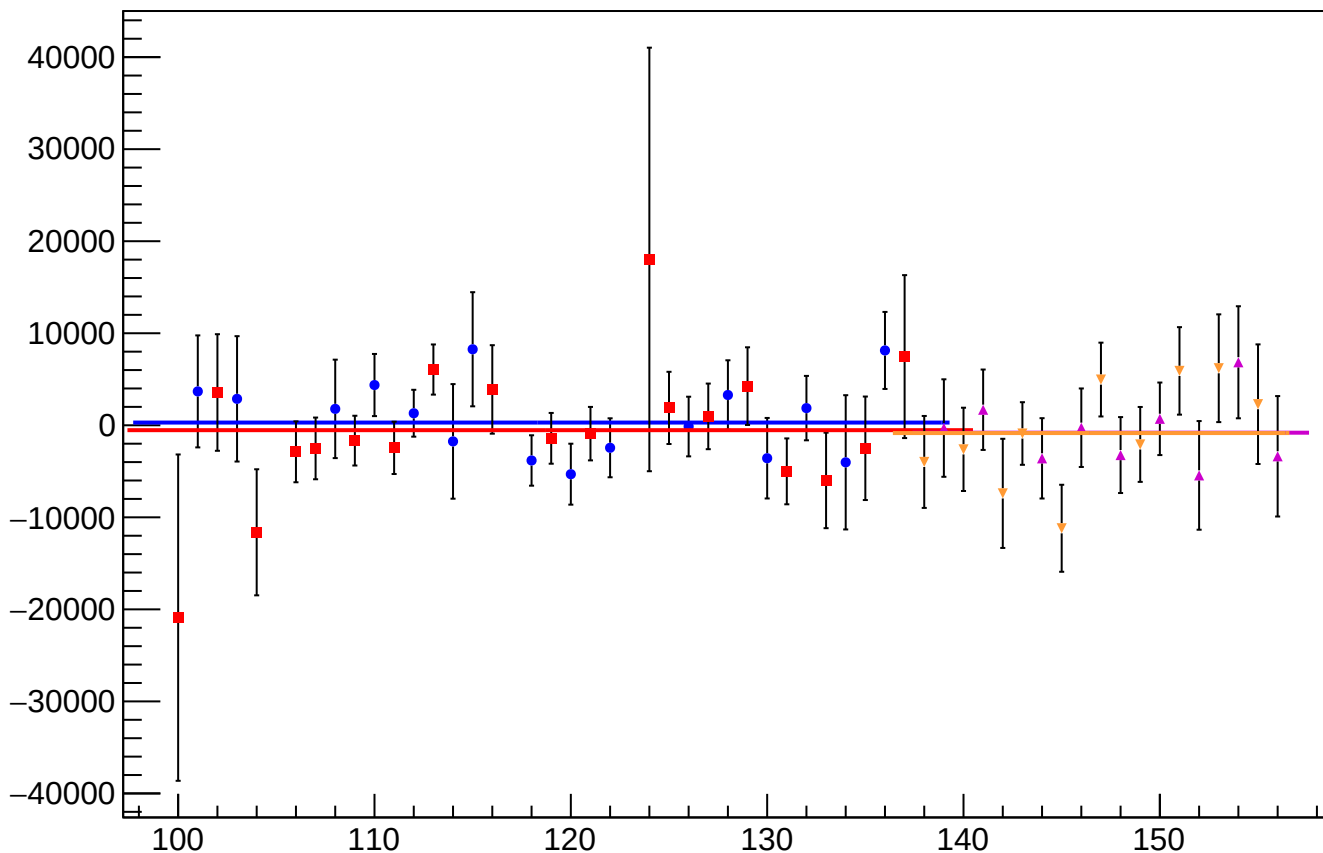
Right: 1695.110 +/- 0.317 χ^2/NDF : 373312.6/33

In: 1735.262 +/- 0.317 χ^2/NDF : 200177.9/24

Out: 1759.685 +/- 0.331 χ^2/NDF : 267579.1/26

All: 1746.957 +/- 0.229 χ^2/NDF : 470594.4/51

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: -845.020 $\pm$ 1461.364 χ^2 /NDF:12.5/9

Right Out: -531.007 $\pm$ 883.969 χ^2 /NDF: 18.8/18

Left In: -805.102 $\pm$ 1585.618 χ^2 /NDF:3.6/8

Left: -826.686 $\pm$ 1074.586 χ^2 /NDF: 16.1/18

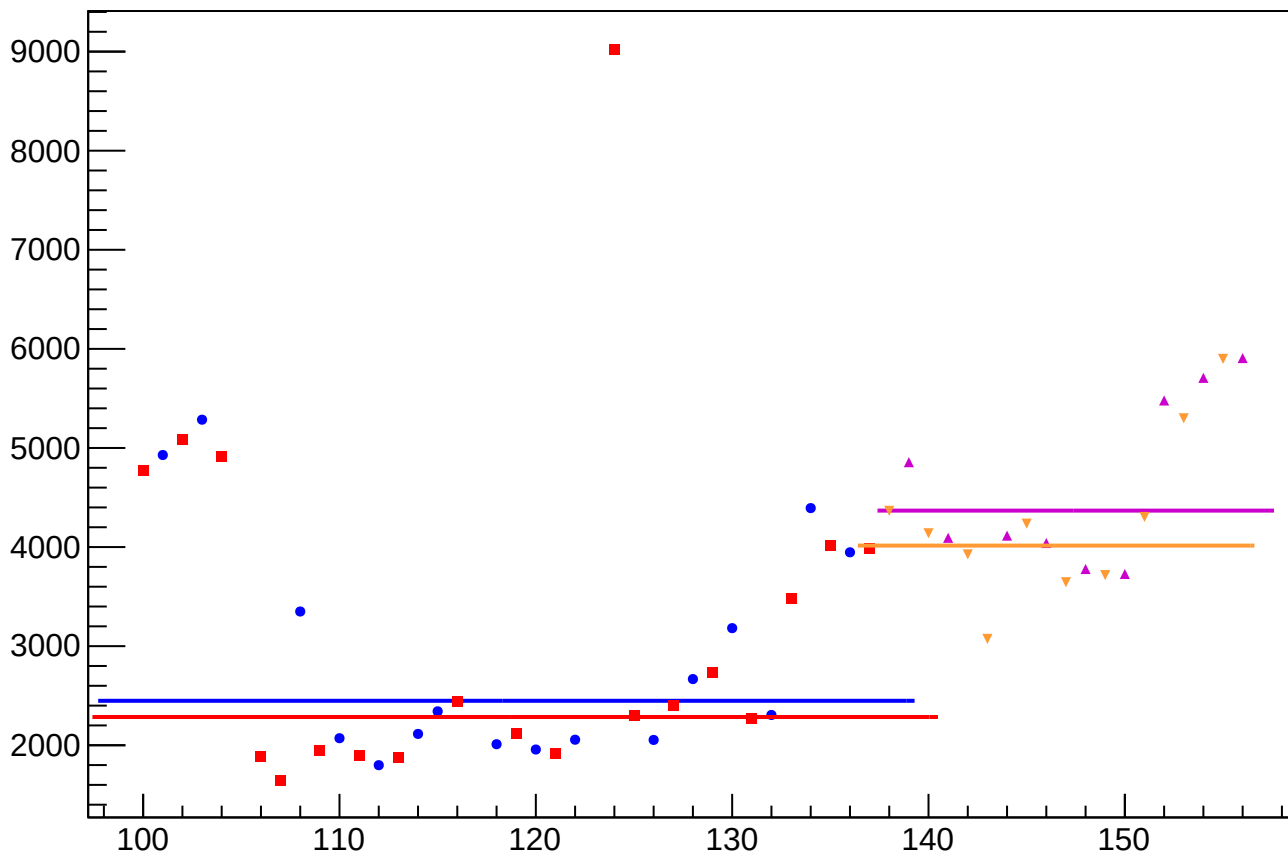
Right: -153.305 $\pm$ 651.728 χ^2 /NDF: 34.4/34

In: -1.083 $\pm$ 824.137 χ^2 /NDF:19.2/24

Out: -615.124 $\pm$ 756.359 χ^2 /NDF:31.3/28

All: -334.388 $\pm$ 557.250 χ^2 /NDF: 50.8/53

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: 4014.875 $\pm$ 1.033 χ^2/NDF : 469017.8/9

Right Out: 2285.075 $\pm$ 0.625 χ^2/NDF : 1548819.2/18

Left In: 4367.918 $\pm$ 1.121 χ^2/NDF : 415345.6/8

Left: 4177.024 $\pm$ 0.760 χ^2/NDF : 937974.3/18

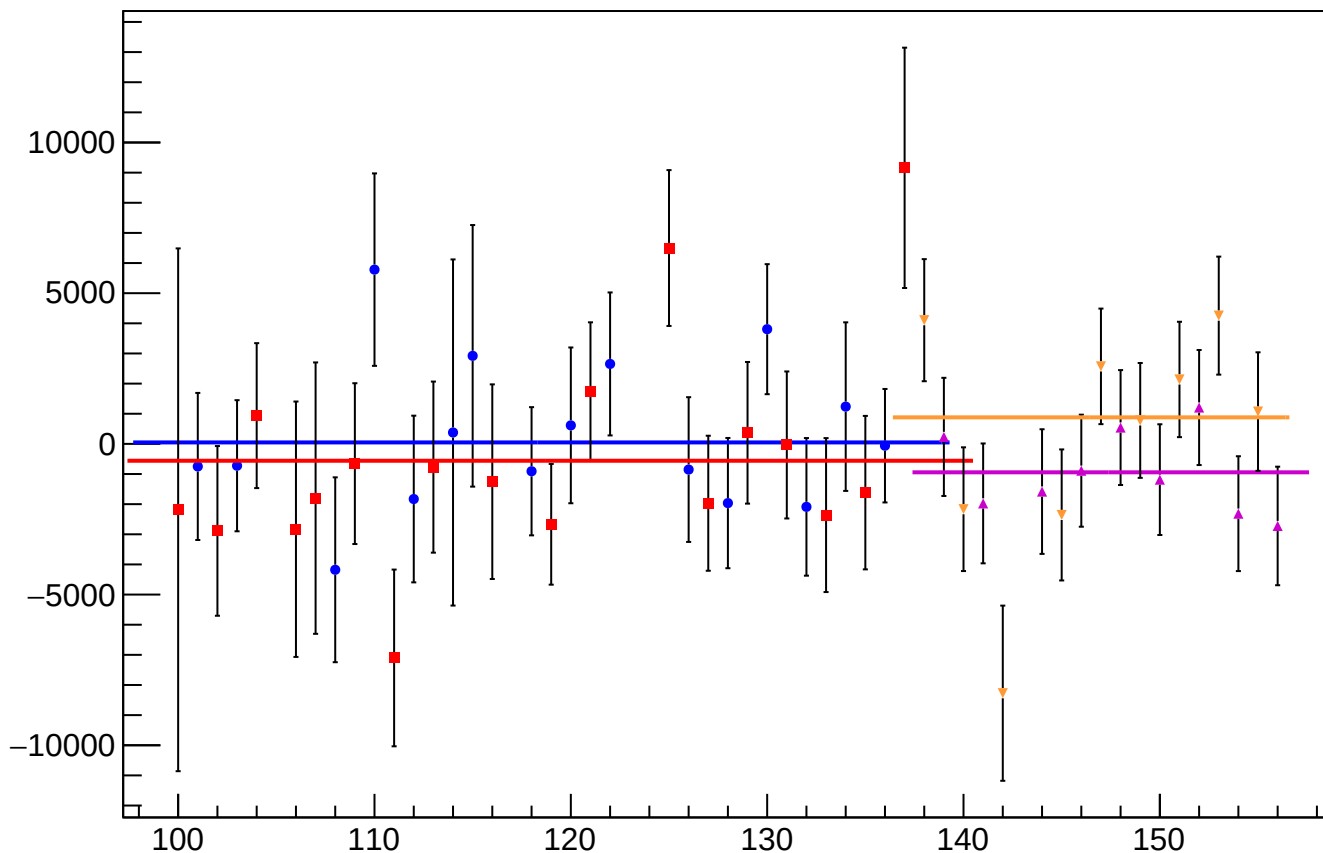
Right: 2359.711 $\pm$ 0.461 χ^2/NDF : 3097643.0/34

In: 2967.099 $\pm$ 0.583 χ^2/NDF : 4071693.8/24

Out: 2748.453 $\pm$ 0.535 χ^2/NDF : 4069413.0/28

All: 2848.417 $\pm$ 0.394 χ^2/NDF : 8217518.1/53

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: 880.142 ± 681.832 $\chi^2/\text{NDF}: 21.1/8$

Right Out: -559.600 ± 645.291 $\chi^2/\text{NDF}: 23.3/17$

Left In: -943.557 ± 643.297 $\chi^2/\text{NDF}: 4.0/8$

Left: -84.696 ± 467.910 $\chi^2/\text{NDF}: 28.8/17$

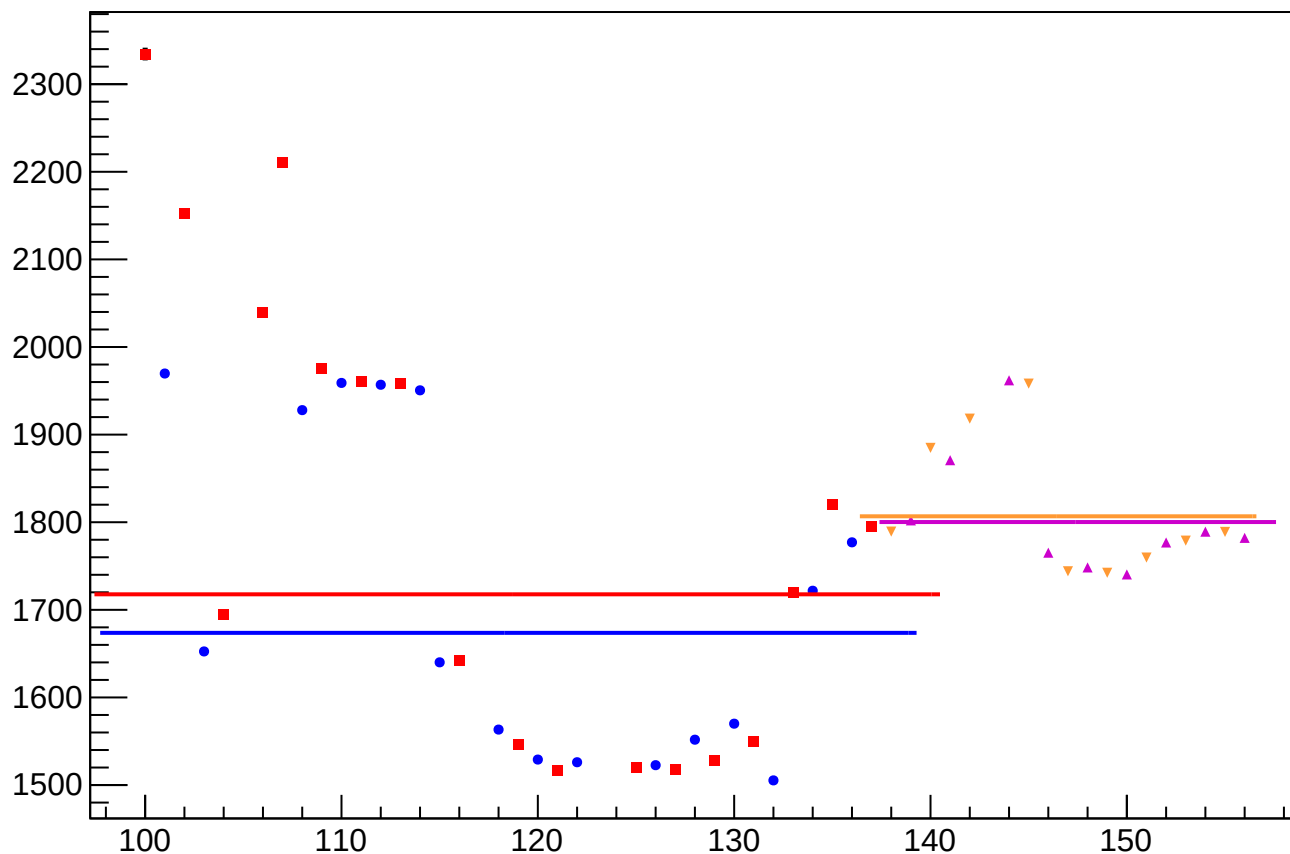
Right: -246.486 ± 449.370 $\chi^2/\text{NDF}: 36.5/33$

In: -434.219 ± 448.695 $\chi^2/\text{NDF}: 18.0/24$

Out: 120.660 ± 468.675 $\chi^2/\text{NDF}: 46.7/26$

All: -168.859 ± 324.109 $\chi^2/\text{NDF}: 65.4/51$

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: 1806.764 $\pm$ 0.482 χ^2/NDF :21902.4/8

Right Out: 1717.713 $\pm$ 0.455 χ^2/NDF : 227641.3/17

Left In: 1800.214 $\pm$ 0.455 χ^2/NDF :19602.1/8

Left: 1803.298 $\pm$ 0.331 χ^2/NDF : 41602.1/17

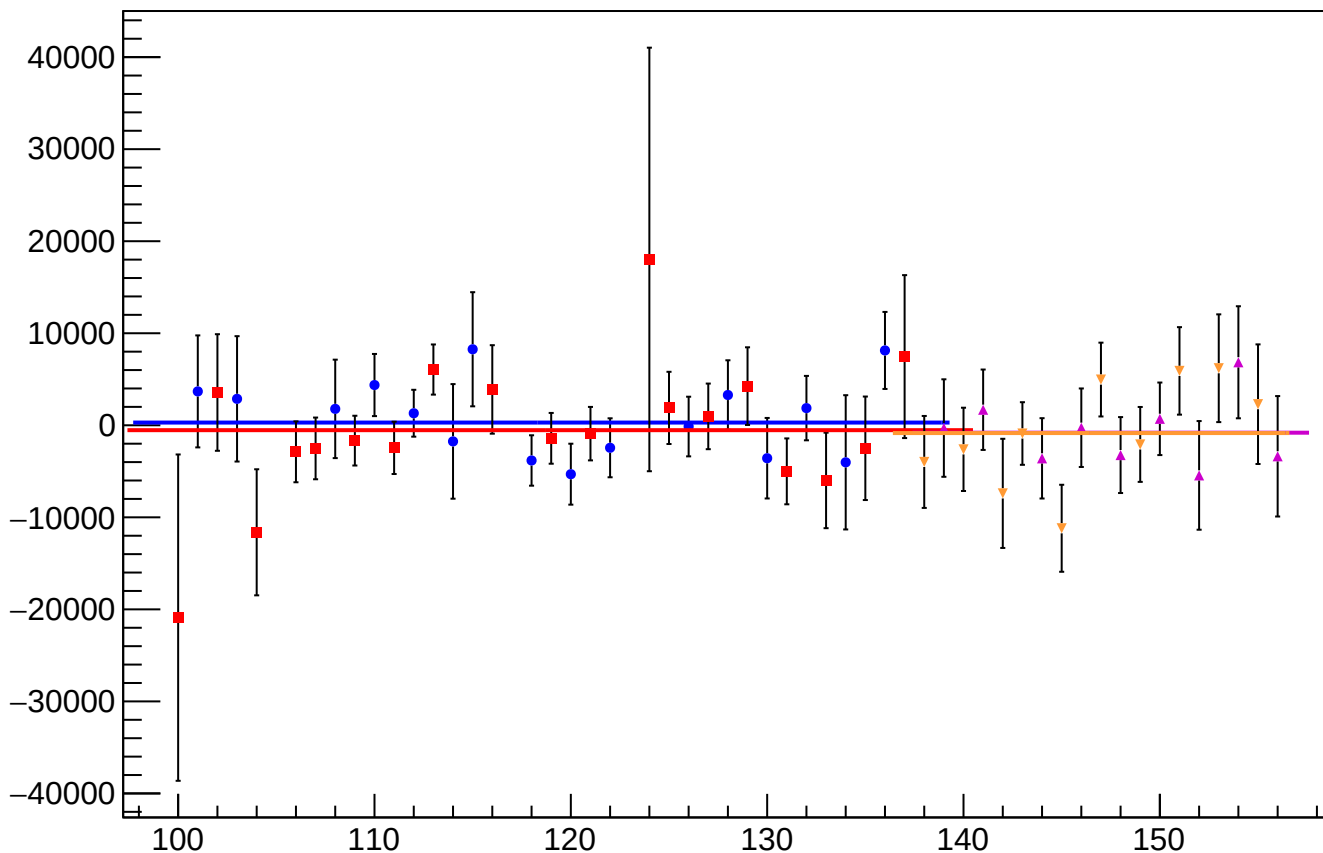
Right: 1695.110 $\pm$ 0.317 χ^2/NDF : 373311.9/33

In: 1735.263 $\pm$ 0.317 χ^2/NDF :200178.9/24

Out: 1759.686 $\pm$ 0.331 χ^2/NDF :267579.2/26

All: 1746.957 $\pm$ 0.229 χ^2/NDF : 470595.4/51

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: -845.016+/-1461.366 χ^2/NDF :12.5/9

Right Out: -531.009+/-883.966 χ^2/NDF : 18.8/18

Left In: -805.103+/-1585.620 χ^2/NDF :3.6/8

Left: -826.684+/-1074.588 χ^2/NDF : 16.1/18

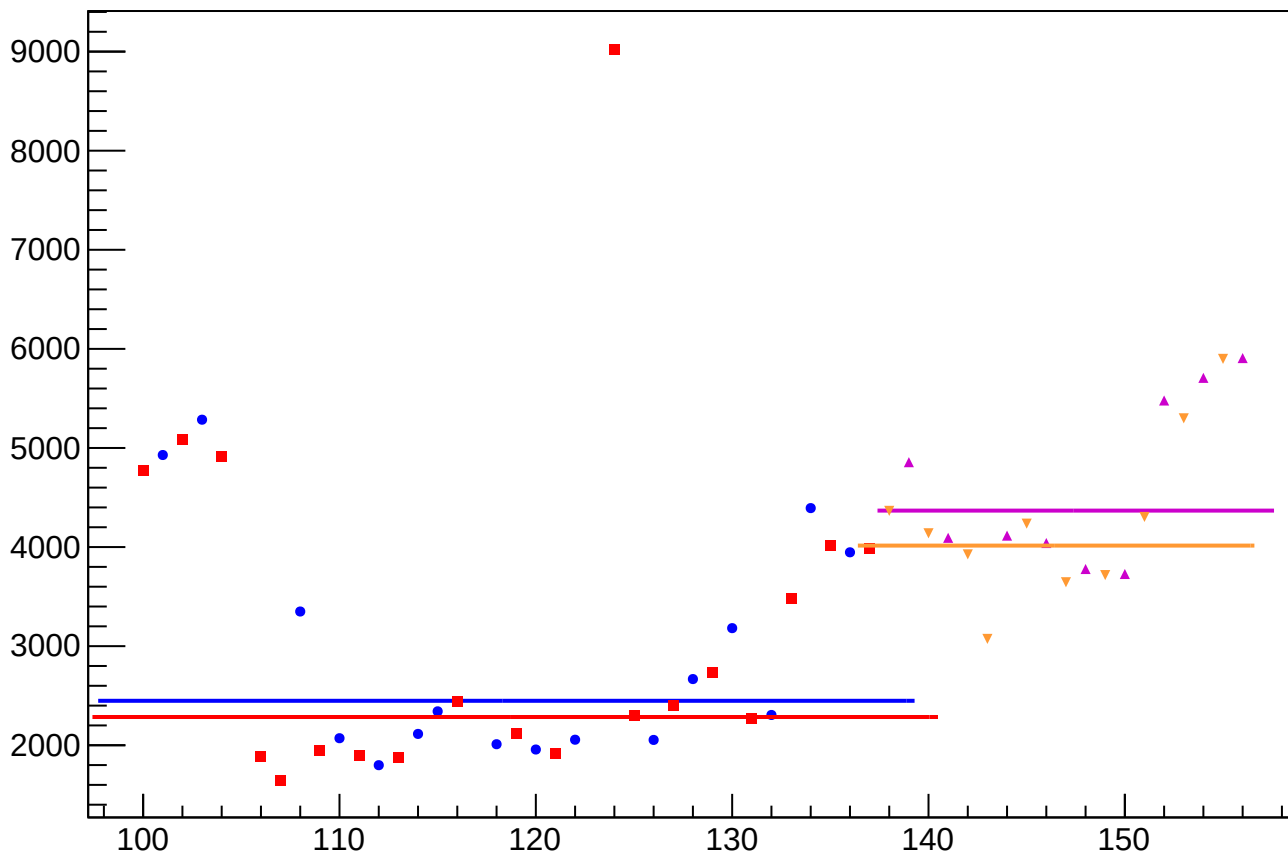
Right: -153.308+/-651.726 χ^2/NDF : 34.4/34

In: -1.086+/-824.135 χ^2/NDF :19.2/24

Out: -615.124+/-756.358 χ^2/NDF :31.3/28

All: -334.389+/-557.249 χ^2/NDF : 50.8/53

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: 4014.879 $\pm$ 1.033 χ^2 /NDF: 469021.3/9

Right Out: 2285.066 $\pm$ 0.625 χ^2 /NDF: 1548827.3/18

Left In: 4367.923 $\pm$ 1.121 χ^2 /NDF: 415348.3/8

Left: 4177.028 $\pm$ 0.760 χ^2 /NDF: 937980.7/18

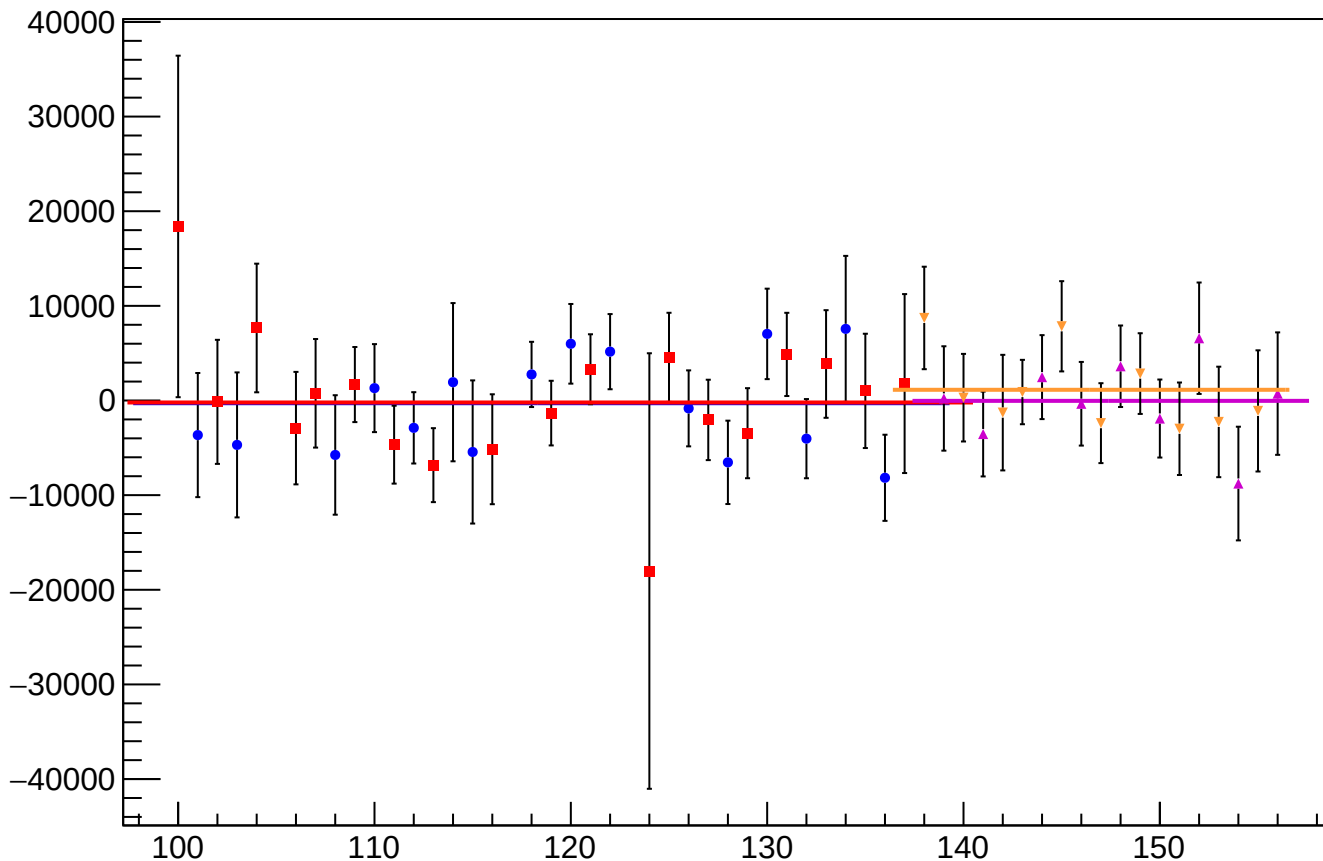
Right: 2359.701 $\pm$ 0.461 χ^2 /NDF: 3097663.3/34

In: 2967.088 $\pm$ 0.583 χ^2 /NDF: 4071745.3/24

Out: 2748.444 $\pm$ 0.535 χ^2 /NDF: 4069455.3/28

All: 2848.407 $\pm$ 0.394 χ^2 /NDF: 8217610.9/53

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -287.276+/-1197.339 χ^2/NDF : 16.6/15

Left Out: 1131.171+/-1499.374 χ^2/NDF : 6.2/9

Right Out: -209.473+/-1153.742 χ^2/NDF : 12.9/18

Left In: -38.338+/-1626.592 χ^2/NDF : 5.3/8

Left: 593.934+/-1102.453 χ^2/NDF : 11.7/18

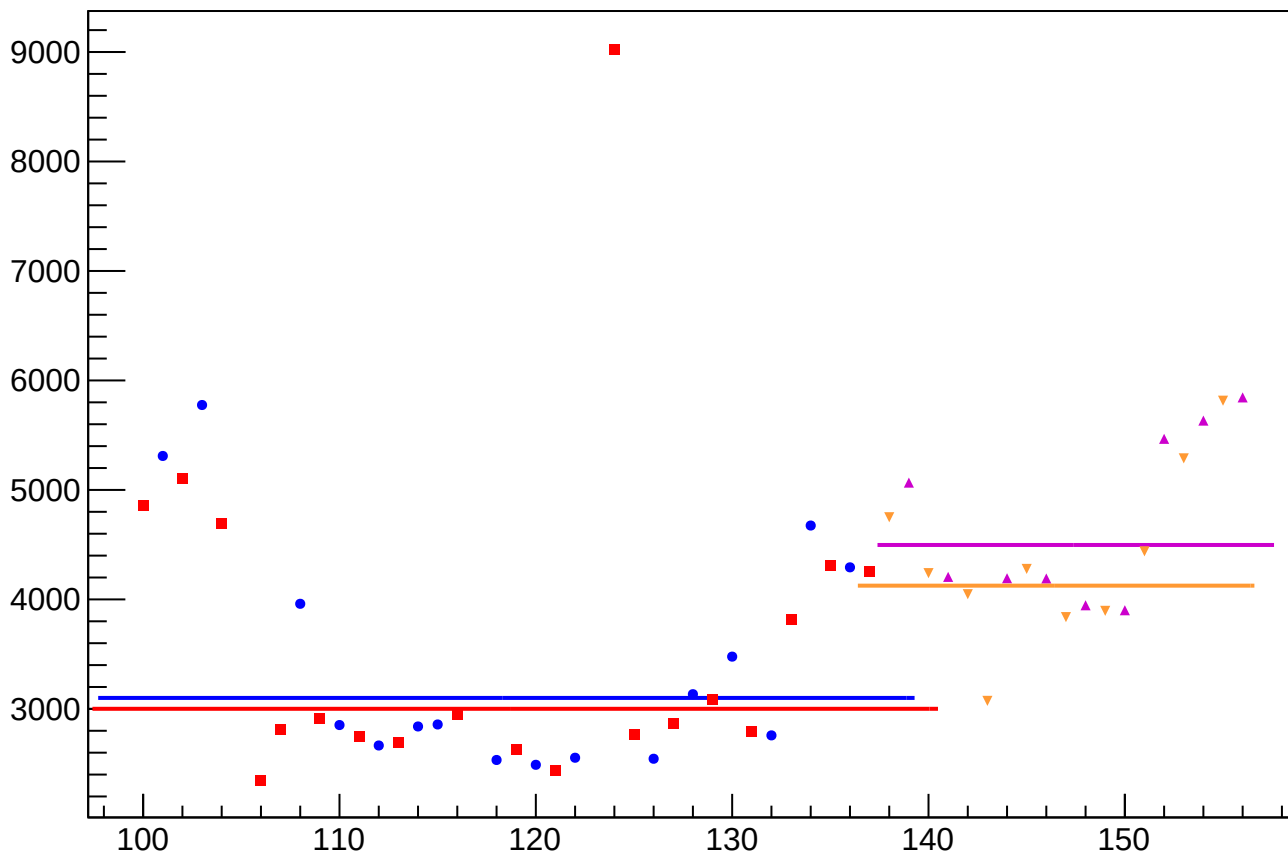
Right: -246.932+/-830.804 χ^2/NDF : 29.4/34

In: -199.792+/-964.265 χ^2/NDF : 21.8/24

Out: 289.113+/-914.372 χ^2/NDF : 19.5/28

All: 57.635+/-663.496 χ^2/NDF : 41.5/53

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3100.135+/-0.847 χ^2/NDF : 963669.6/15

Left Out: 4125.603+/-1.060 χ^2/NDF : 463649.6/9

Right Out: 3000.750+/-0.805 χ^2/NDF : 806601.4/18

Left In: 4497.185+/-1.150 χ^2/NDF : 335981.9/8

Left: 4296.297+/-0.780 χ^2/NDF : 856058.0/18

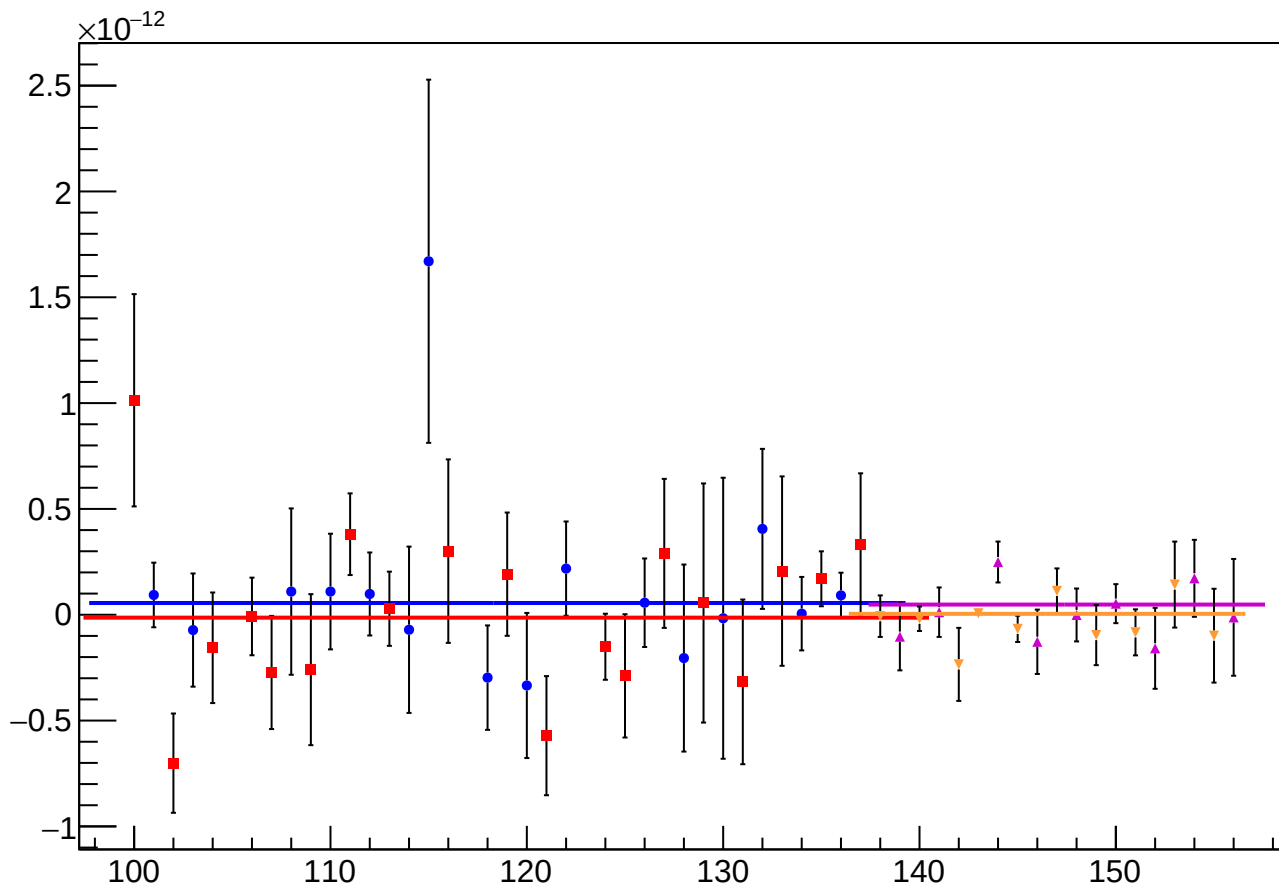
Right: 3047.926+/-0.583 χ^2/NDF : 1777509.7/34

In: 3591.095+/-0.682 χ^2/NDF : 2256528.0/24

Out: 3411.966+/-0.641 χ^2/NDF : 1984390.3/28

All: 3496.011+/-0.467 χ^2/NDF : 4277554.9/53

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 : 6.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 30.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.5/8

Left: 0.000+/-0.000 χ^2/NDF : 15.8/18

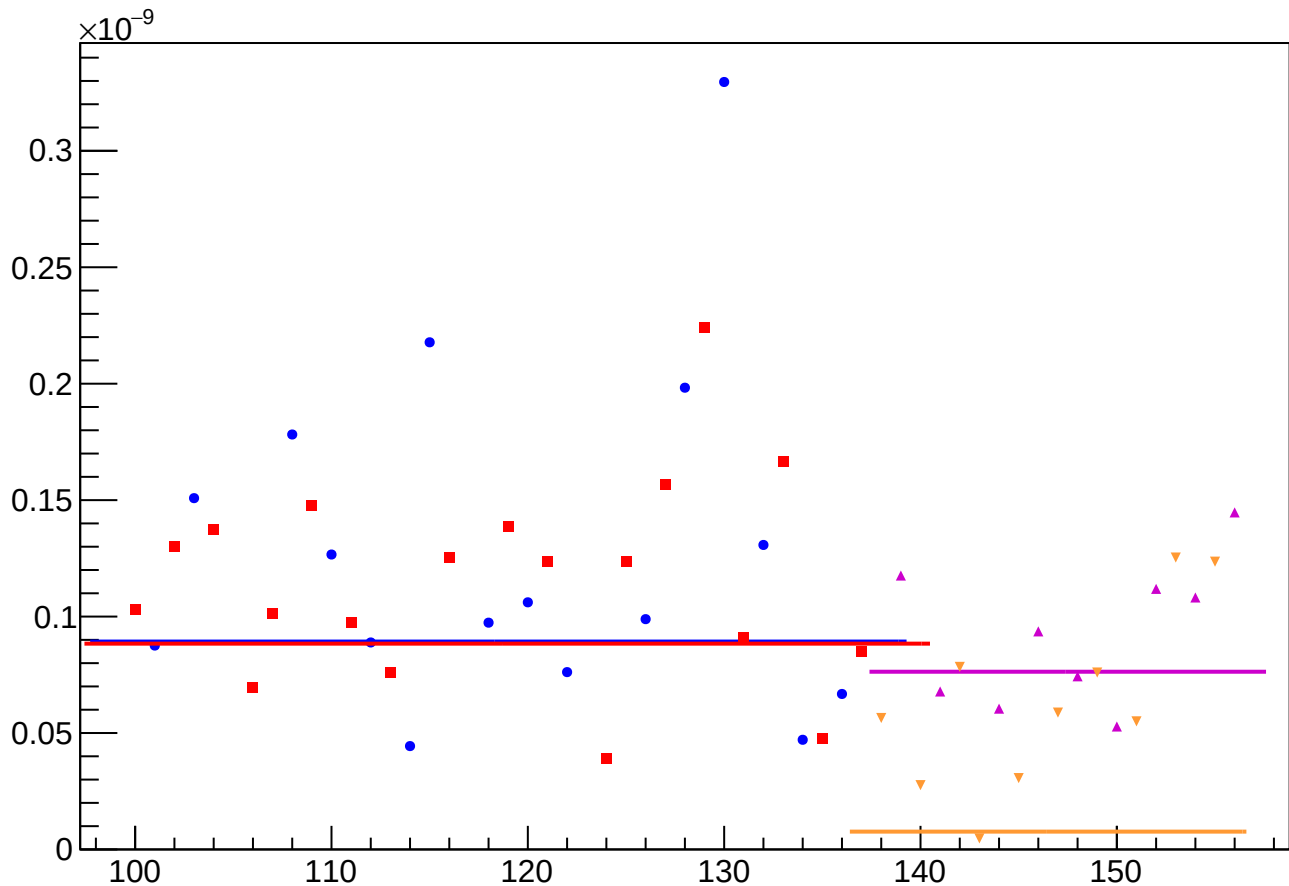
Right: 0.000+/-0.000 χ^2/NDF : 40.1/34

In: 0.000+/-0.000 χ^2/NDF : 17.8/24

Out: 0.000+/-0.000 χ^2/NDF : 36.5/28

All: 0.000+/-0.000 χ^2/NDF : 56.1/53

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 : 4077330.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1013814.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 609155.8/8

Left: 0.000+/-0.000 χ^2/NDF : 9365669.0/18

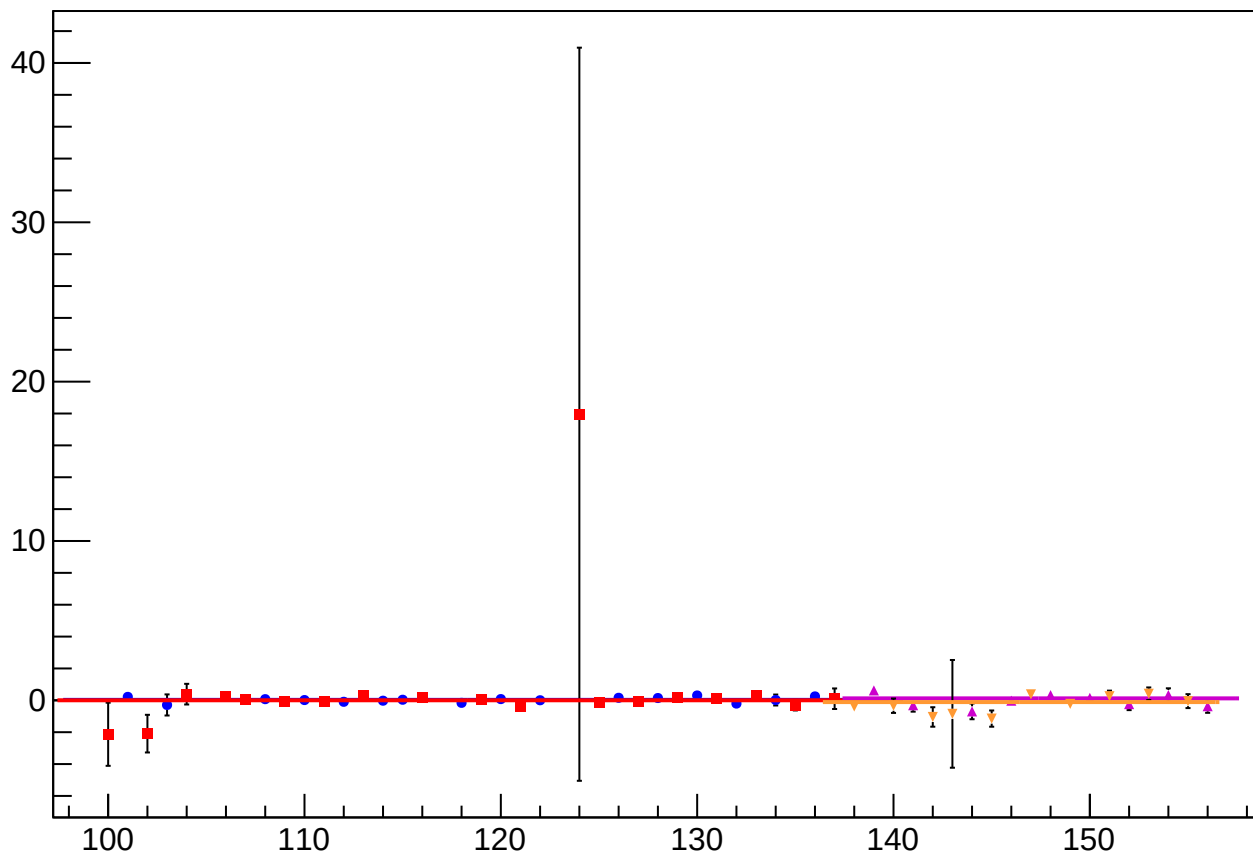
Right: 0.000+/-0.000 χ^2/NDF : 1963677.1/34

In: 0.000+/-0.000 χ^2/NDF : 1624175.6/24

Out: 0.000+/-0.000 χ^2/NDF : 9183198.8/28

All: 0.000+/-0.000 χ^2/NDF : 18838992.0/53

asym_atl_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.045 $\chi^2/\text{NDF}: 8.9/15$

Left Out: -0.110 ± 0.124 $\chi^2/\text{NDF}: 13.4/9$

Right Out: 0.003 ± 0.043 $\chi^2/\text{NDF}: 22.4/18$

Left In: 0.122 ± 0.112 $\chi^2/\text{NDF}: 11.7/8$

Left: 0.018 ± 0.083 $\chi^2/\text{NDF}: 27.0/18$

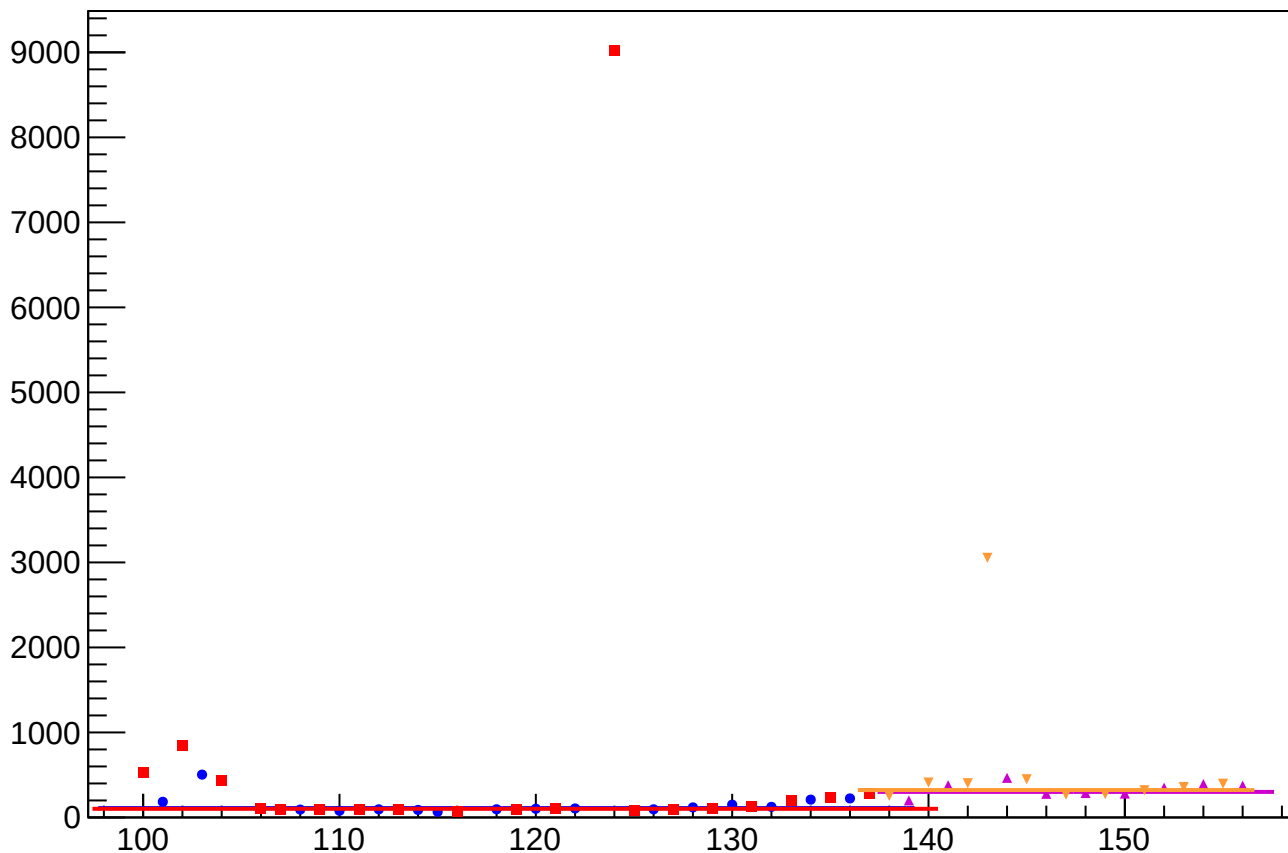
Right: 0.015 ± 0.031 $\chi^2/\text{NDF}: 31.4/34$

In: 0.041 ± 0.042 $\chi^2/\text{NDF}: 21.2/24$

Out: -0.009 ± 0.041 $\chi^2/\text{NDF}: 36.5/28$

All: 0.016 ± 0.029 $\chi^2/\text{NDF}: 58.5/53$

asym_atl_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988 $\pm$ 0.032 χ^2 /NDF: 1930558.2/15

Left Out: 322.339 $\pm$ 0.087 χ^2 /NDF: 1848482.9/9

Right Out: 101.852 $\pm$ 0.031 χ^2 /NDF: 2589792.8/18

Left In: 300.642 $\pm$ 0.079 χ^2 /NDF: 892083.8/8

Left: 310.433 $\pm$ 0.059 χ^2 /NDF: 2774416.0/18

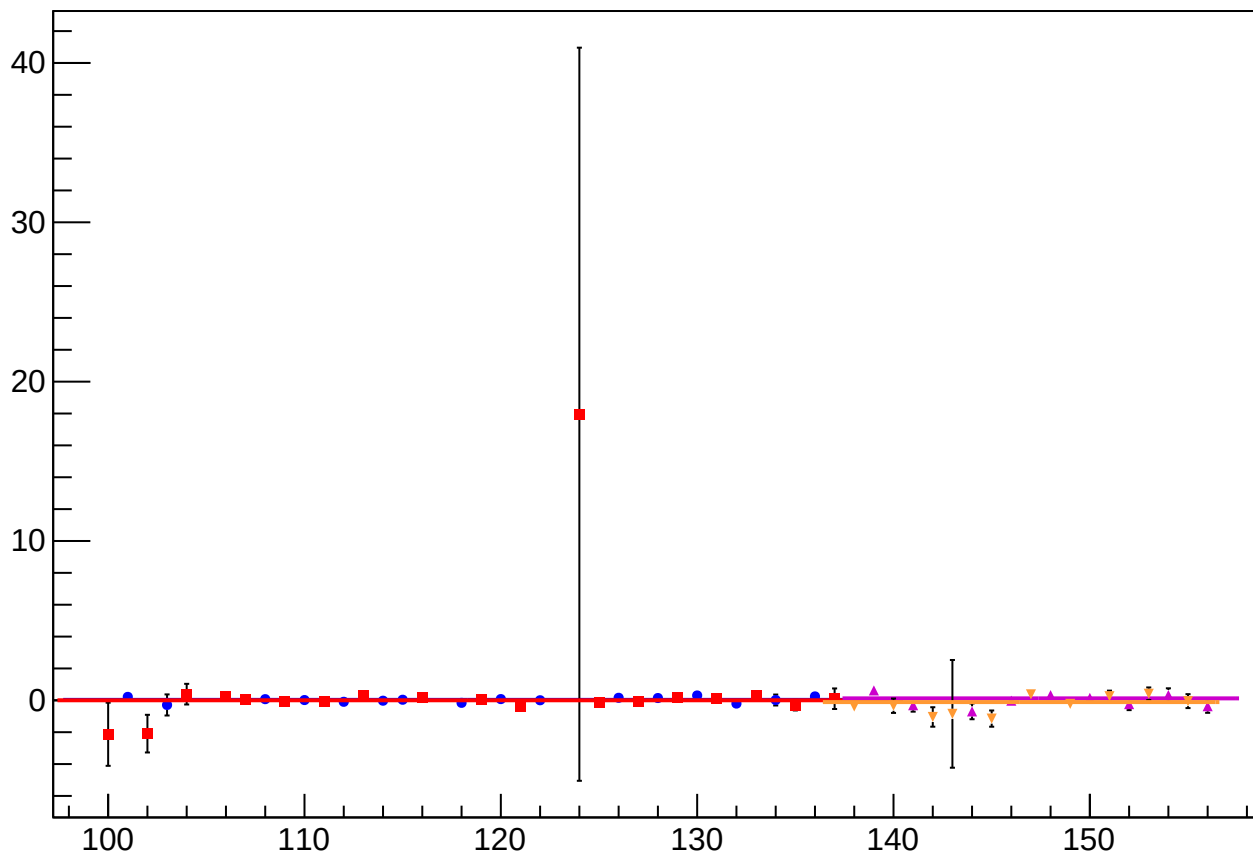
Right: 105.743 $\pm$ 0.022 χ^2 /NDF: 4554008.7/34

In: 136.780 $\pm$ 0.030 χ^2 /NDF: 7800886.3/24

Out: 126.046 $\pm$ 0.029 χ^2 /NDF: 10109927.9/28

All: 131.274 $\pm$ 0.021 χ^2 /NDF: 17977842.4/53

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.045 $\chi^2/\text{NDF}: 8.9/15$

Left Out: -0.110 ± 0.124 $\chi^2/\text{NDF}: 13.4/9$

Right Out: 0.003 ± 0.043 $\chi^2/\text{NDF}: 22.4/18$

Left In: 0.122 ± 0.112 $\chi^2/\text{NDF}: 11.7/8$

Left: 0.018 ± 0.083 $\chi^2/\text{NDF}: 27.0/18$

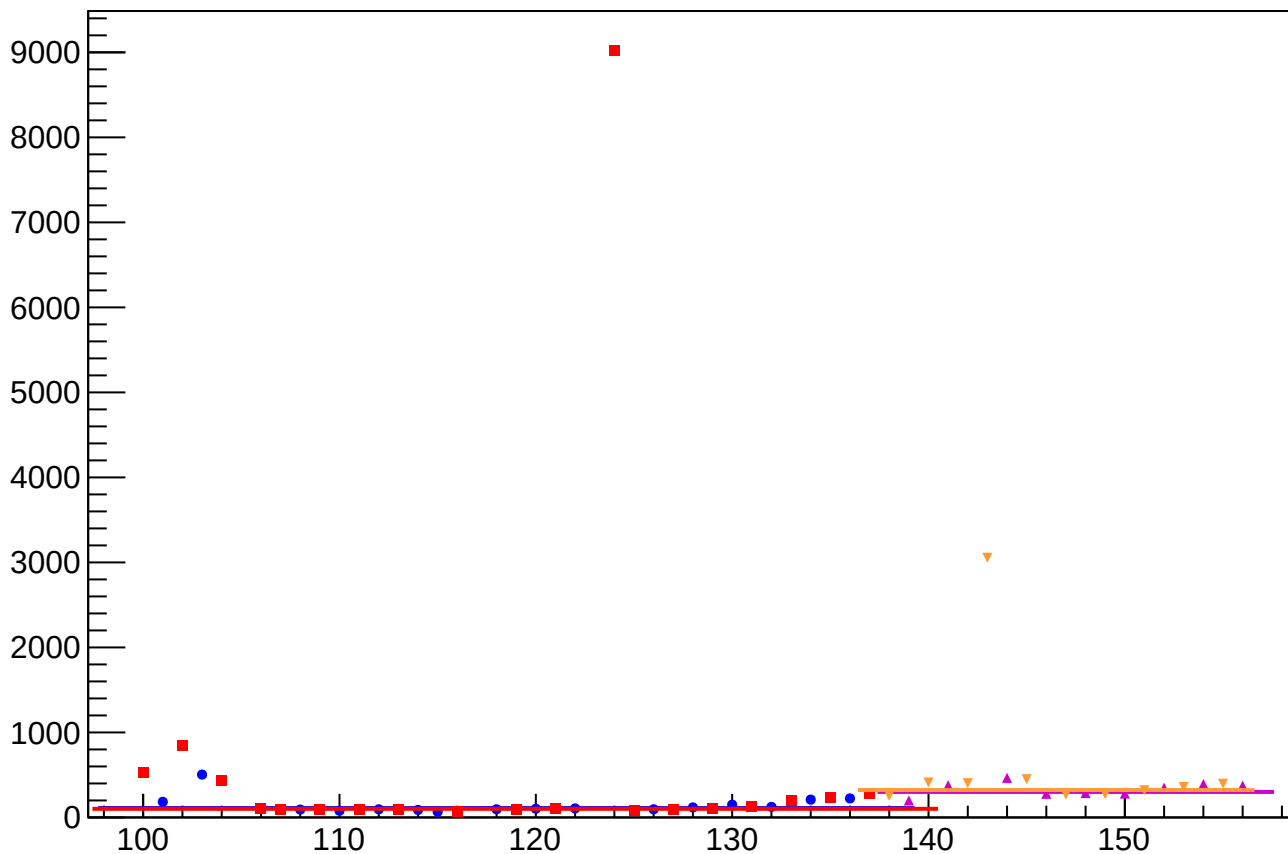
Right: 0.015 ± 0.031 $\chi^2/\text{NDF}: 31.4/34$

In: 0.041 ± 0.042 $\chi^2/\text{NDF}: 21.2/24$

Out: -0.009 ± 0.041 $\chi^2/\text{NDF}: 36.5/28$

All: 0.016 ± 0.029 $\chi^2/\text{NDF}: 58.5/53$

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988 $\pm$ 0.032 χ^2 /NDF: 1930558.2/15

Left Out: 322.339 $\pm$ 0.087 χ^2 /NDF: 1848482.9/9

Right Out: 101.852 $\pm$ 0.031 χ^2 /NDF: 2589792.8/18

Left In: 300.642 $\pm$ 0.079 χ^2 /NDF: 892083.8/8

Left: 310.433 $\pm$ 0.059 χ^2 /NDF: 2774416.0/18

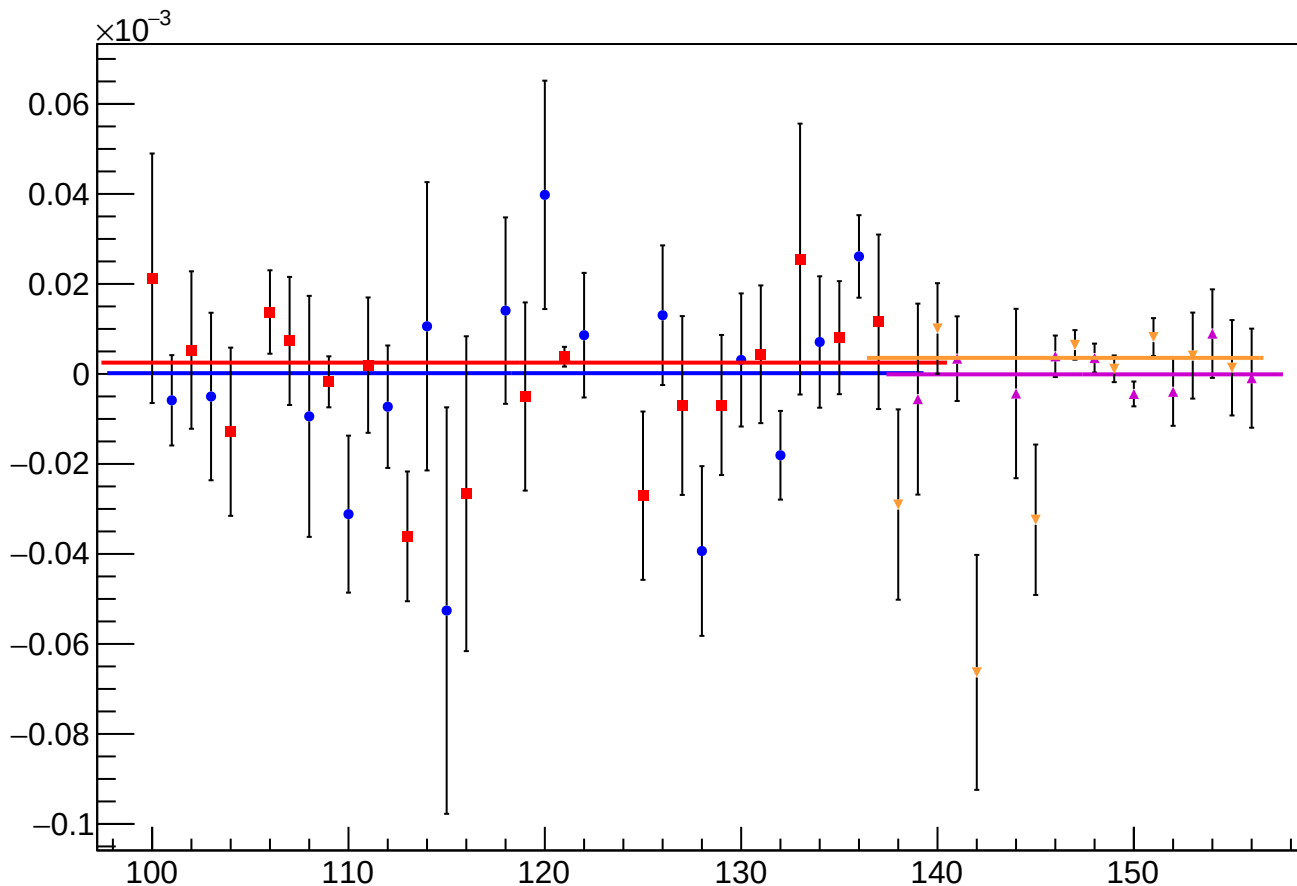
Right: 105.743 $\pm$ 0.022 χ^2 /NDF: 4554008.7/34

In: 136.780 $\pm$ 0.030 χ^2 /NDF: 7800886.3/24

Out: 126.046 $\pm$ 0.029 χ^2 /NDF: 10109927.9/28

All: 131.274 $\pm$ 0.021 χ^2 /NDF: 17977842.4/53

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:17.3/8

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.8/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:5.9/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.3/17

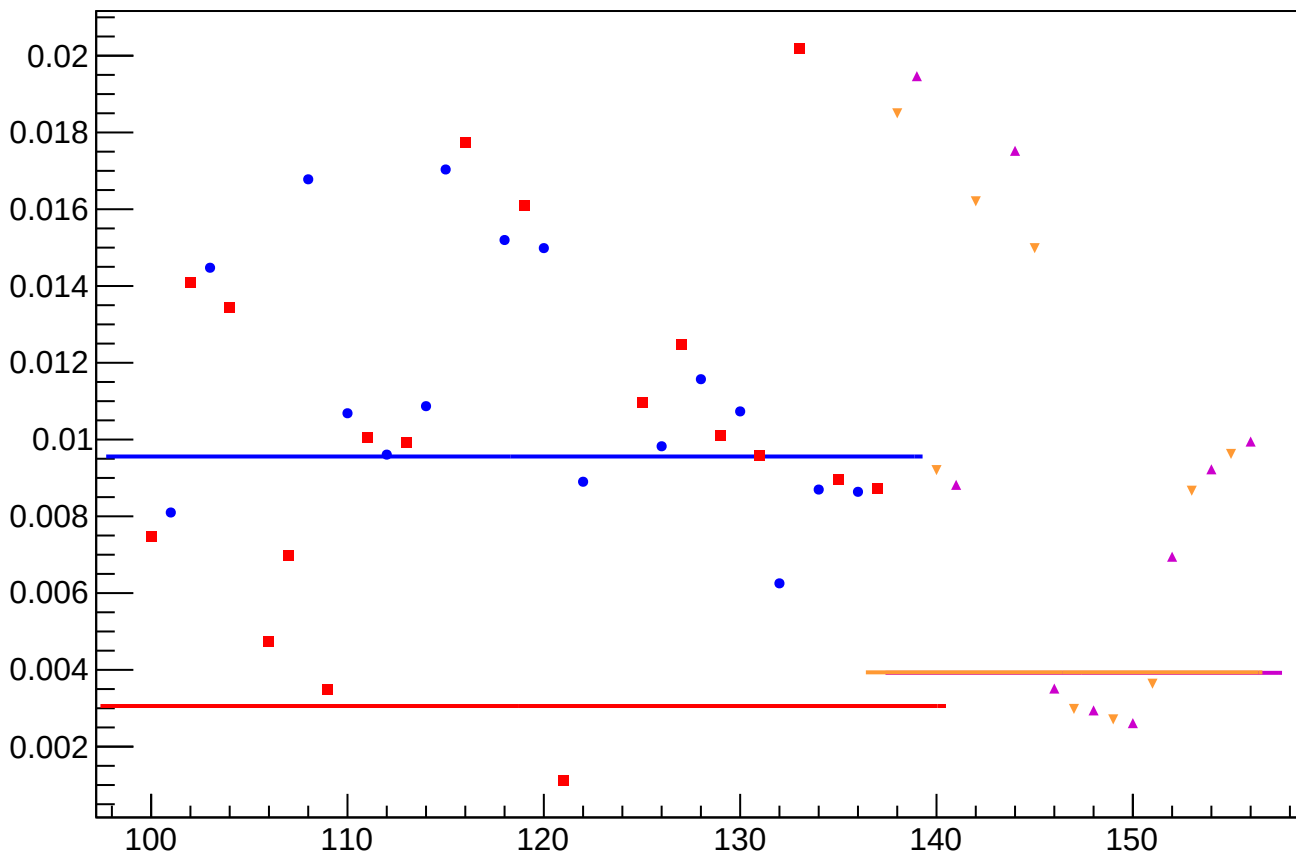
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 41.7/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:31.5/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:33.2/26

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 67.0/51

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 926018.8/15

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:4399660.1/8

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 8122378.4/17

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:4812055.9/8

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 9211766.4/17

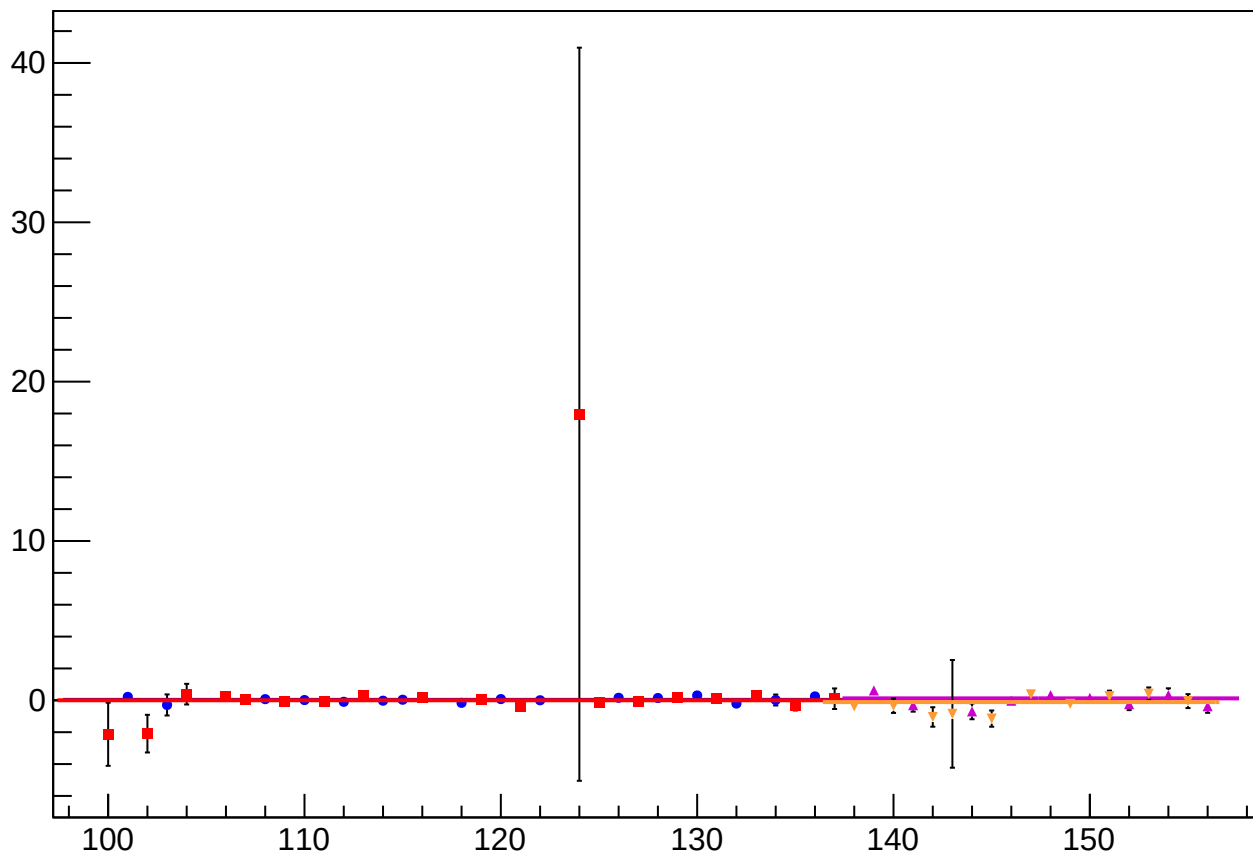
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 13944710.4/33

In: 0.005 $\pm$ 0.000 χ^2 /NDF:9481446.0/24

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:12752475.5/26

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 23227055.7/51

asym_atl_dd_eigen_dit_vs_Slug, Sign Corrected



Right In: 0.028 ± 0.045 $\chi^2/\text{NDF}: 8.9/15$

Left Out: -0.110 ± 0.124 $\chi^2/\text{NDF}: 13.4/9$

Right Out: 0.003 ± 0.043 $\chi^2/\text{NDF}: 22.4/18$

Left In: 0.122 ± 0.112 $\chi^2/\text{NDF}: 11.7/8$

Left: 0.018 ± 0.083 $\chi^2/\text{NDF}: 27.0/18$

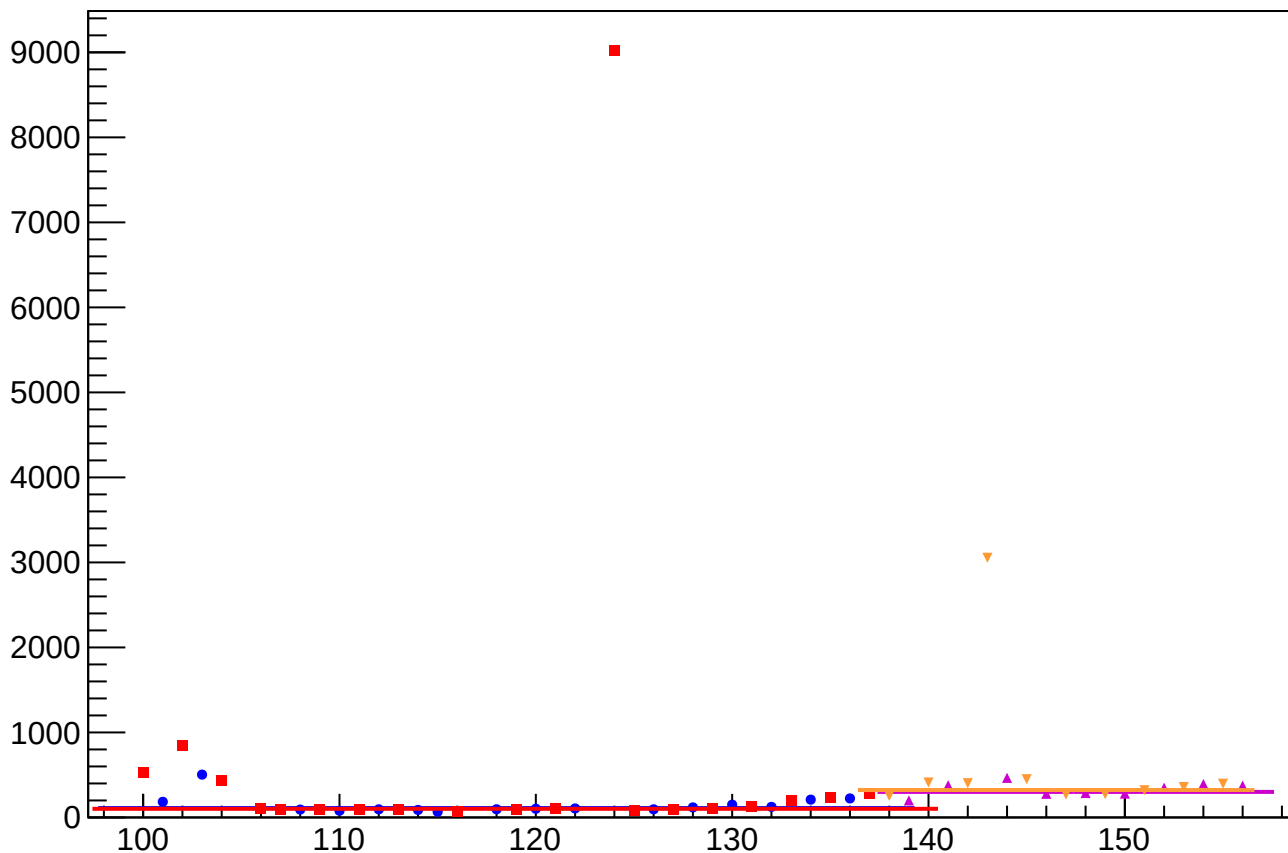
Right: 0.015 ± 0.031 $\chi^2/\text{NDF}: 31.4/34$

In: 0.041 ± 0.042 $\chi^2/\text{NDF}: 21.2/24$

Out: -0.009 ± 0.041 $\chi^2/\text{NDF}: 36.5/28$

All: 0.016 ± 0.029 $\chi^2/\text{NDF}: 58.5/53$

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989+/-0.032 χ^2/NDF : 1930489.2/15

Left Out: 322.341+/-0.087 χ^2/NDF :1848520.0/9

Right Out: 101.853+/-0.031 χ^2/NDF : 2589710.5/18

Left In: 300.647+/-0.079 χ^2/NDF :892065.2/8

Left: 310.437+/-0.059 χ^2/NDF : 2774427.7/18

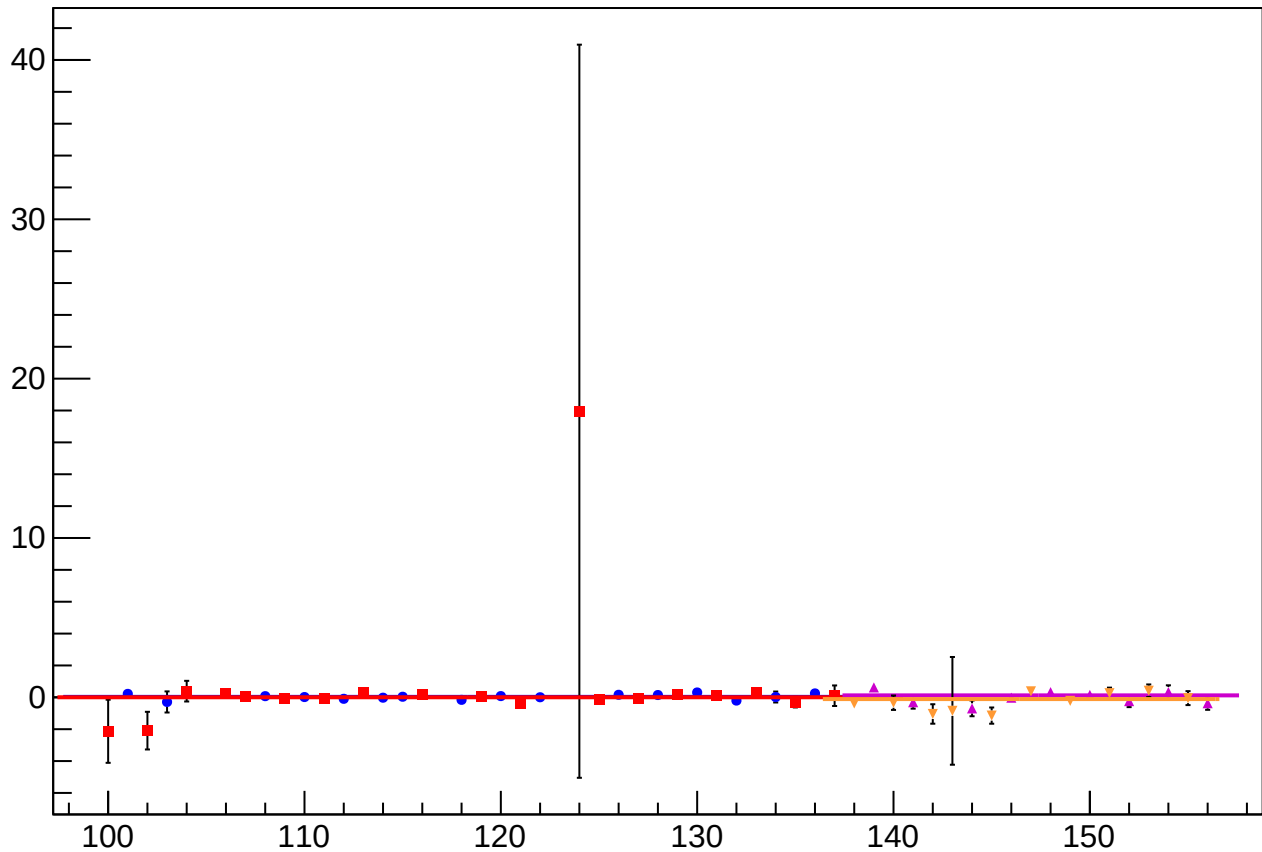
Right: 105.744+/-0.022 χ^2/NDF : 4553853.6/34

In: 136.781+/-0.030 χ^2/NDF :7800853.7/24

Out: 126.047+/-0.029 χ^2/NDF :10109847.3/28

All: 131.275+/-0.021 χ^2/NDF : 17977723.2/53

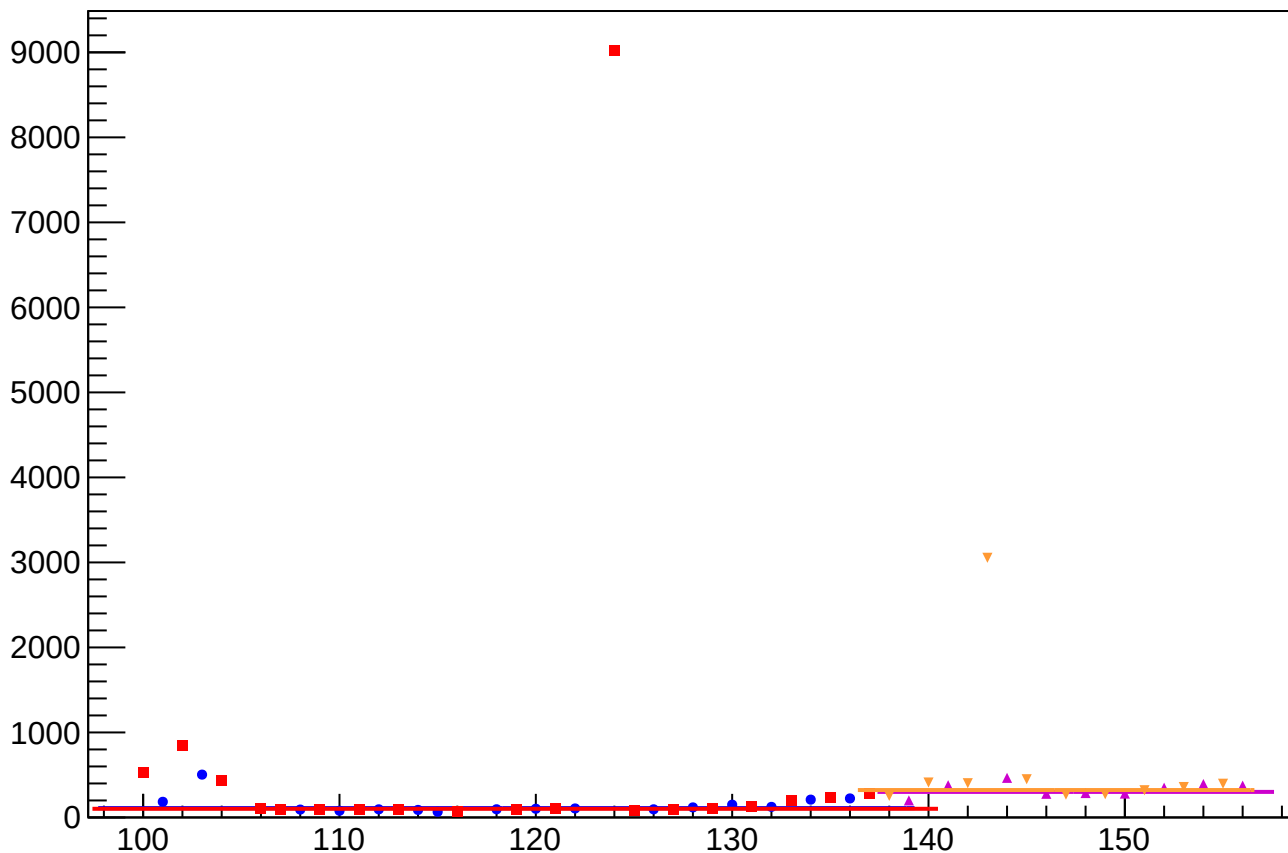
asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.045 $\chi^2/\text{NDF}: 8.9/15$
 Left Out: -0.110 ± 0.124 $\chi^2/\text{NDF}: 13.4/9$
 Right Out: 0.003 ± 0.043 $\chi^2/\text{NDF}: 22.4/18$
 Left In: 0.122 ± 0.112 $\chi^2/\text{NDF}: 11.7/8$

Left: 0.018 ± 0.083 $\chi^2/\text{NDF}: 27.0/18$
 Right: 0.015 ± 0.031 $\chi^2/\text{NDF}: 31.4/34$
 In: 0.041 ± 0.042 $\chi^2/\text{NDF}: 21.2/24$
 Out: -0.009 ± 0.041 $\chi^2/\text{NDF}: 36.5/28$
 All: 0.016 ± 0.029 $\chi^2/\text{NDF}: 58.5/53$

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989 $\pm$ 0.032 χ^2 /NDF: 1930489.2/15

Left Out: 322.341 $\pm$ 0.087 χ^2 /NDF:1848520.0/9

Right Out: 101.853 $\pm$ 0.031 χ^2 /NDF: 2589710.5/18

Left In: 300.647 $\pm$ 0.079 χ^2 /NDF:892065.2/8

Left: 310.437 $\pm$ 0.059 χ^2 /NDF: 2774427.7/18

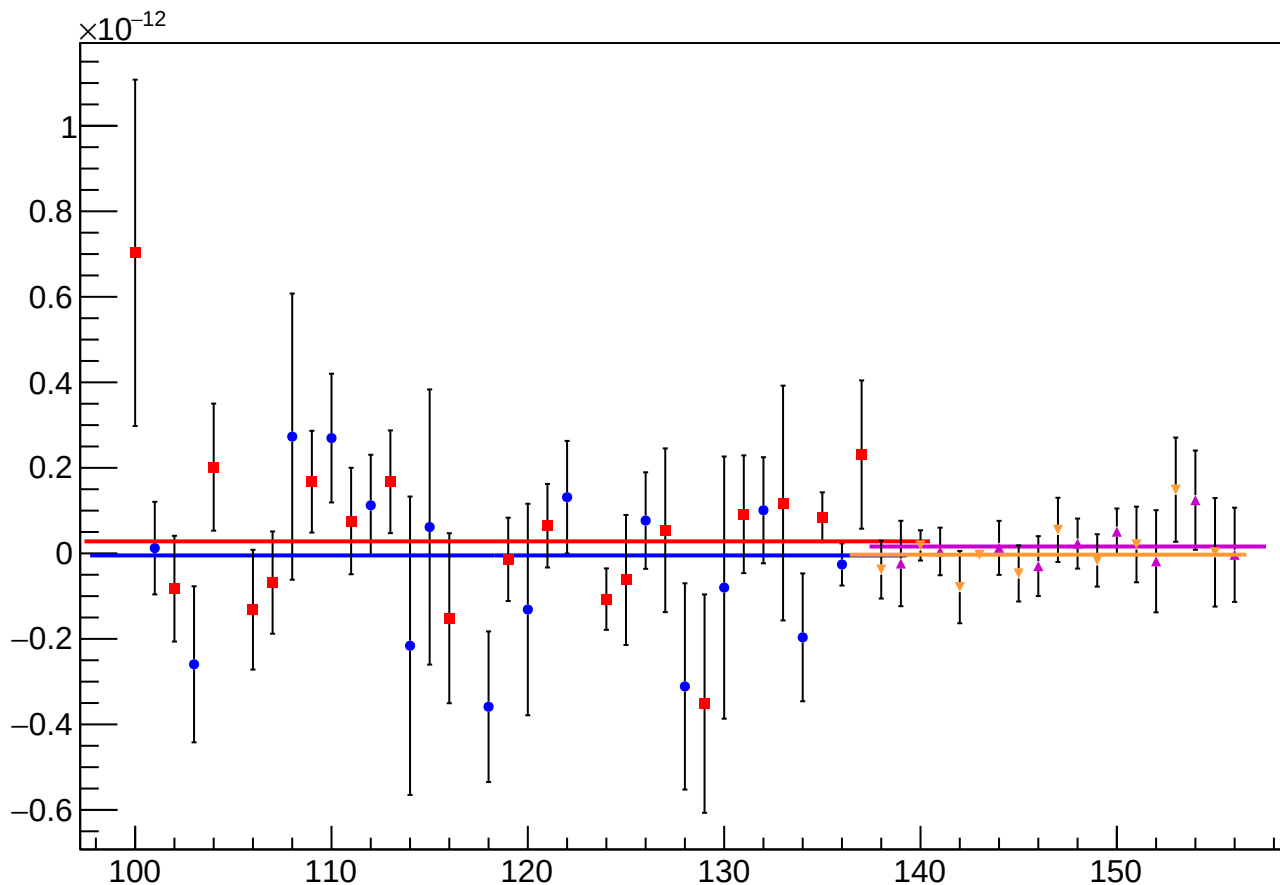
Right: 105.744 $\pm$ 0.022 χ^2 /NDF: 4553853.6/34

In: 136.781 $\pm$ 0.030 χ^2 /NDF:7800853.7/24

Out: 126.047 $\pm$ 0.029 χ^2 /NDF:10109847.3/28

All: 131.275 $\pm$ 0.021 χ^2 /NDF: 17977723.2/53

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 : 4.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.0/8

Left: -0.000+/-0.000 χ^2/NDF : 6.8/18

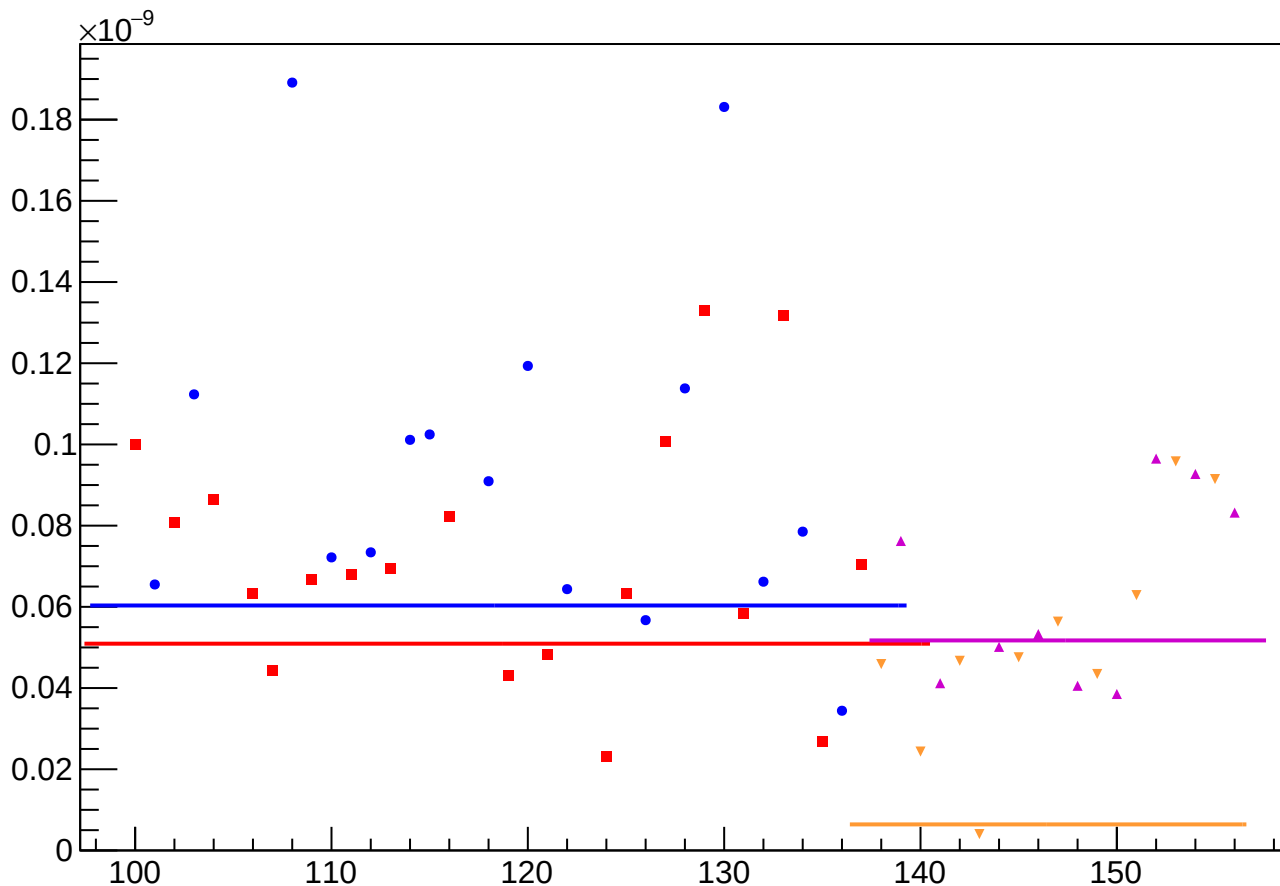
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: 0.000+/-0.000 χ^2/NDF : 19.8/24

Out: -0.000+/-0.000 χ^2/NDF : 25.1/28

All: -0.000+/-0.000 χ^2/NDF : 45.2/53

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 : 7200951.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1667004.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1079475.3/8

Left: 0.000+/-0.000 χ^2/NDF : 15063052.5/18

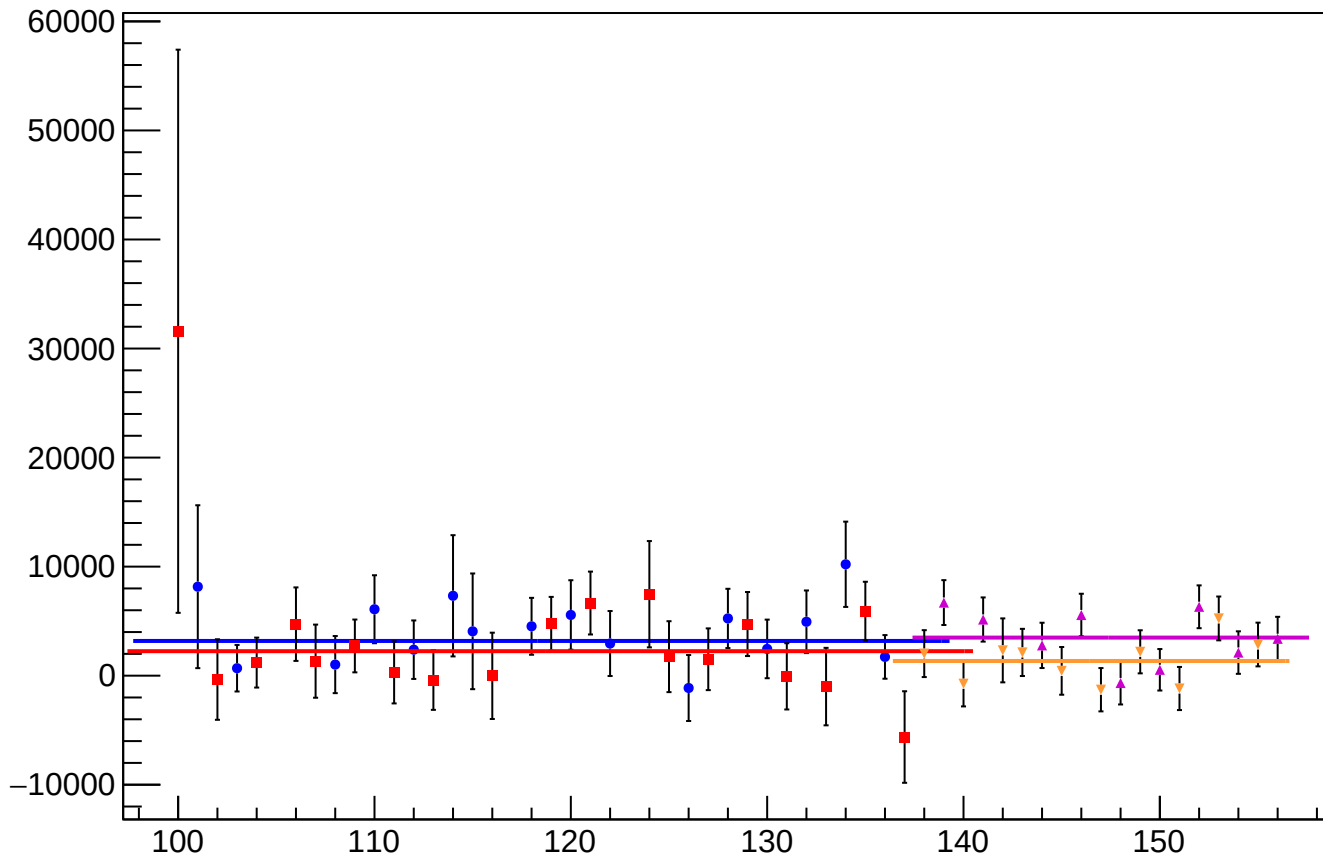
Right: 0.000+/-0.000 χ^2/NDF : 3514375.8/34

In: 0.000+/-0.000 χ^2/NDF : 2919099.0/24

Out: 0.000+/-0.000 χ^2/NDF : 14017390.8/28

All: 0.000+/-0.000 χ^2/NDF : 27993165.3/53

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3183.705 $\pm$ 731.133 χ^2 /NDF: 11.7/15

Left Out: 1346.612 $\pm$ 666.900 χ^2 /NDF:9.4/9

Right Out: 2246.057 $\pm$ 710.912 χ^2 /NDF: 16.5/18

Left In: 3491.022 $\pm$ 662.430 χ^2 /NDF:13.8/8

Left: 2426.028 $\pm$ 469.981 χ^2 /NDF: 28.4/18

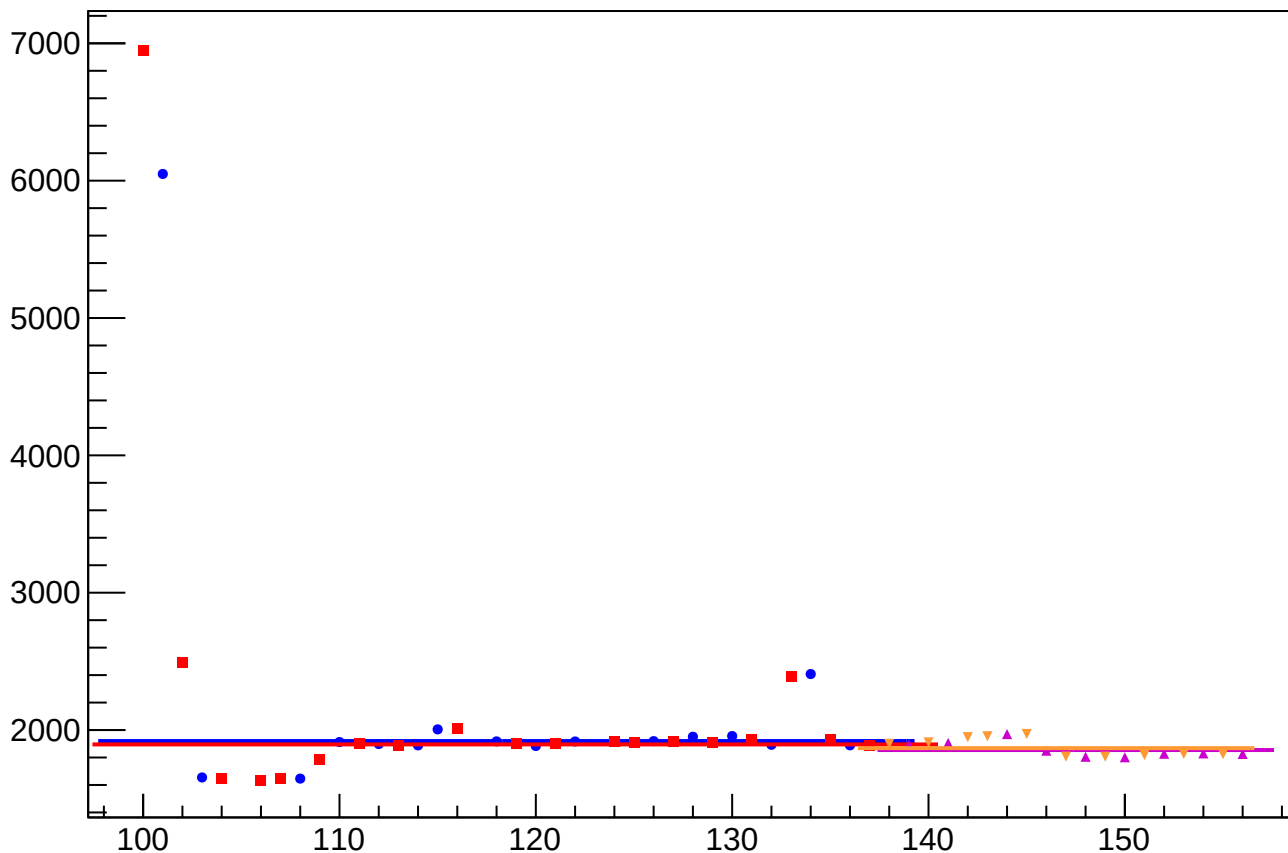
Right: 2701.735 $\pm$ 509.689 χ^2 /NDF: 29.1/34

In: 3352.477 $\pm$ 490.905 χ^2 /NDF:25.6/24

Out: 1767.633 $\pm$ 486.385 χ^2 /NDF:26.8/28

All: 2552.725 $\pm$ 345.513 χ^2 /NDF: 57.7/53

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697331.5/15

Left Out: 1868.133+/-0.472 χ^2/NDF :17381.5/9

Right Out: 1895.361+/-0.501 χ^2/NDF : 222273.9/18

Left In: 1854.359+/-0.468 χ^2/NDF :12116.8/8

Left: 1861.200+/-0.332 χ^2/NDF : 29927.8/18

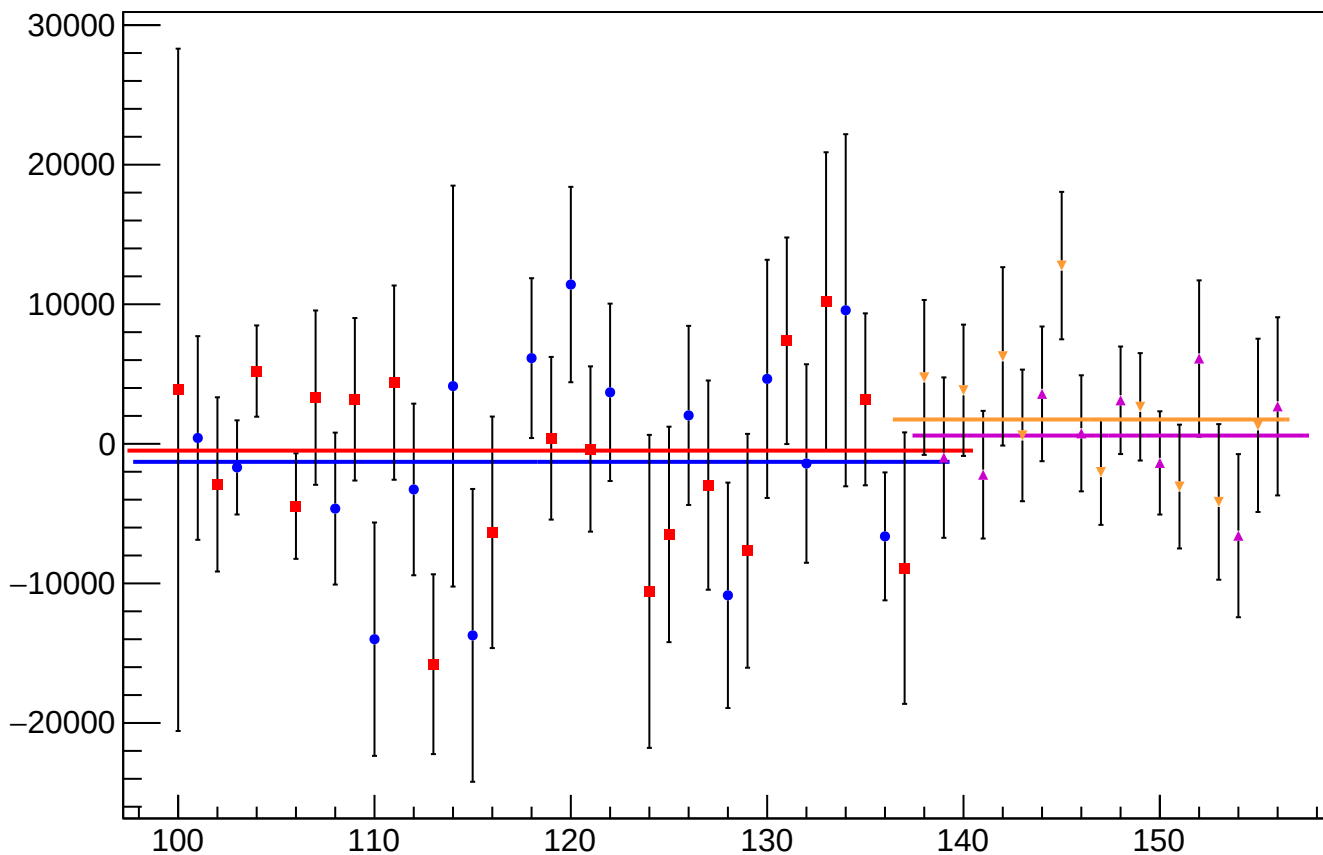
Right: 1907.209+/-0.360 χ^2/NDF : 920760.5/34

In: 1883.873+/-0.347 χ^2/NDF :718254.9/24

Out: 1880.925+/-0.343 χ^2/NDF :241221.7/28

All: 1882.383+/-0.244 χ^2/NDF : 959513.1/53

asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1290.495 $\pm$ 1585.432 χ^2 /NDF: 14.3/15

Left Out: 1744.183 $\pm$ 1526.097 χ^2 /NDF:8.8/9

Right Out: -485.214 $\pm$ 1437.465 χ^2 /NDF: 17.2/18

Left In: 592.981 $\pm$ 1571.063 χ^2 /NDF:4.1/8

Left: 1185.292 $\pm$ 1094.665 χ^2 /NDF: 13.2/18

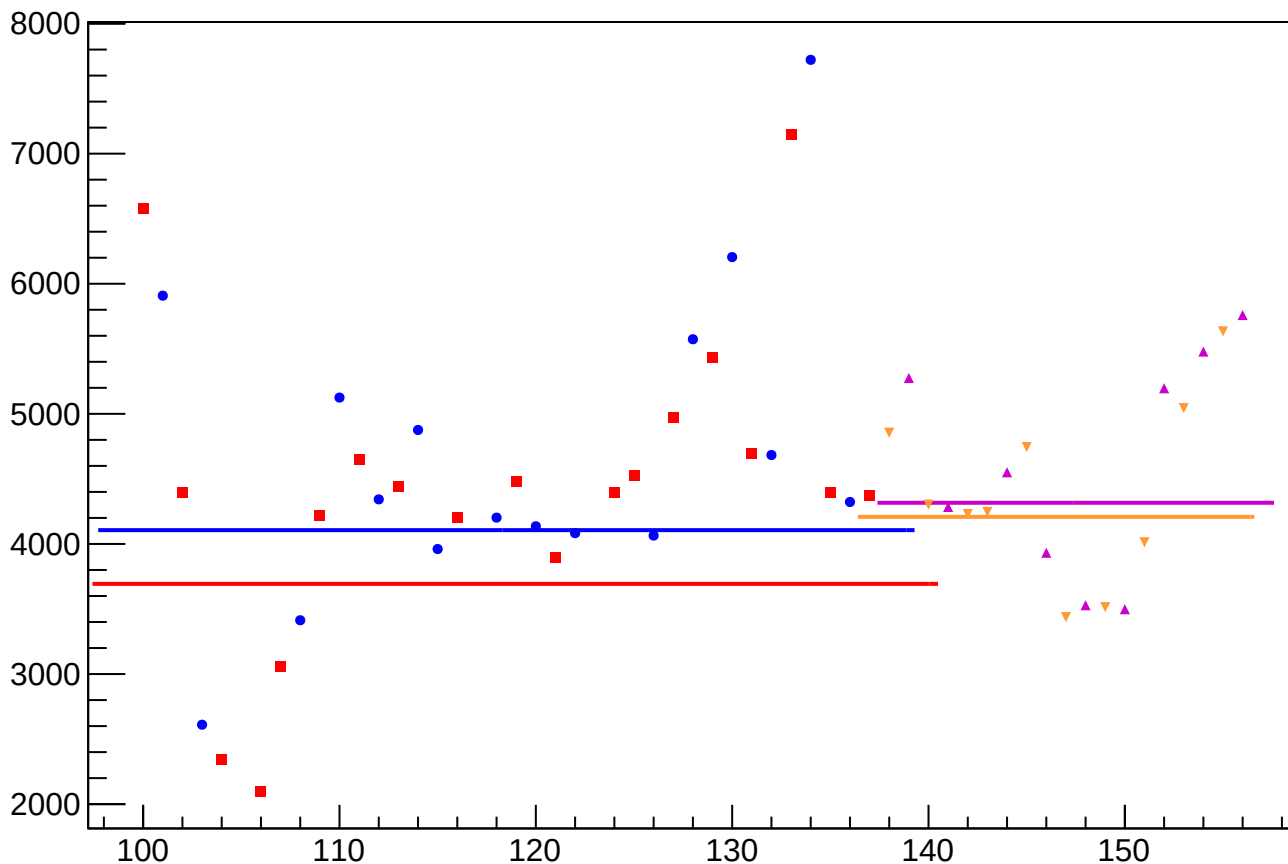
Right: -848.531 $\pm$ 1064.920 χ^2 /NDF: 31.6/34

In: -340.183 $\pm$ 1115.955 χ^2 /NDF:19.1/24

Out: 562.869 $\pm$ 1046.372 χ^2 /NDF:27.1/28

All: 140.373 $\pm$ 763.311 χ^2 /NDF: 46.6/53

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: 4208.207 $\pm$ 1.079 χ^2 /NDF: 351195.5/9

Right Out: 3693.266 $\pm$ 1.016 χ^2 /NDF: 1356643.3/18

Left In: 4316.515 $\pm$ 1.111 χ^2 /NDF: 489865.3/8

Left: 4260.789 $\pm$ 0.774 χ^2 /NDF: 845951.4/18

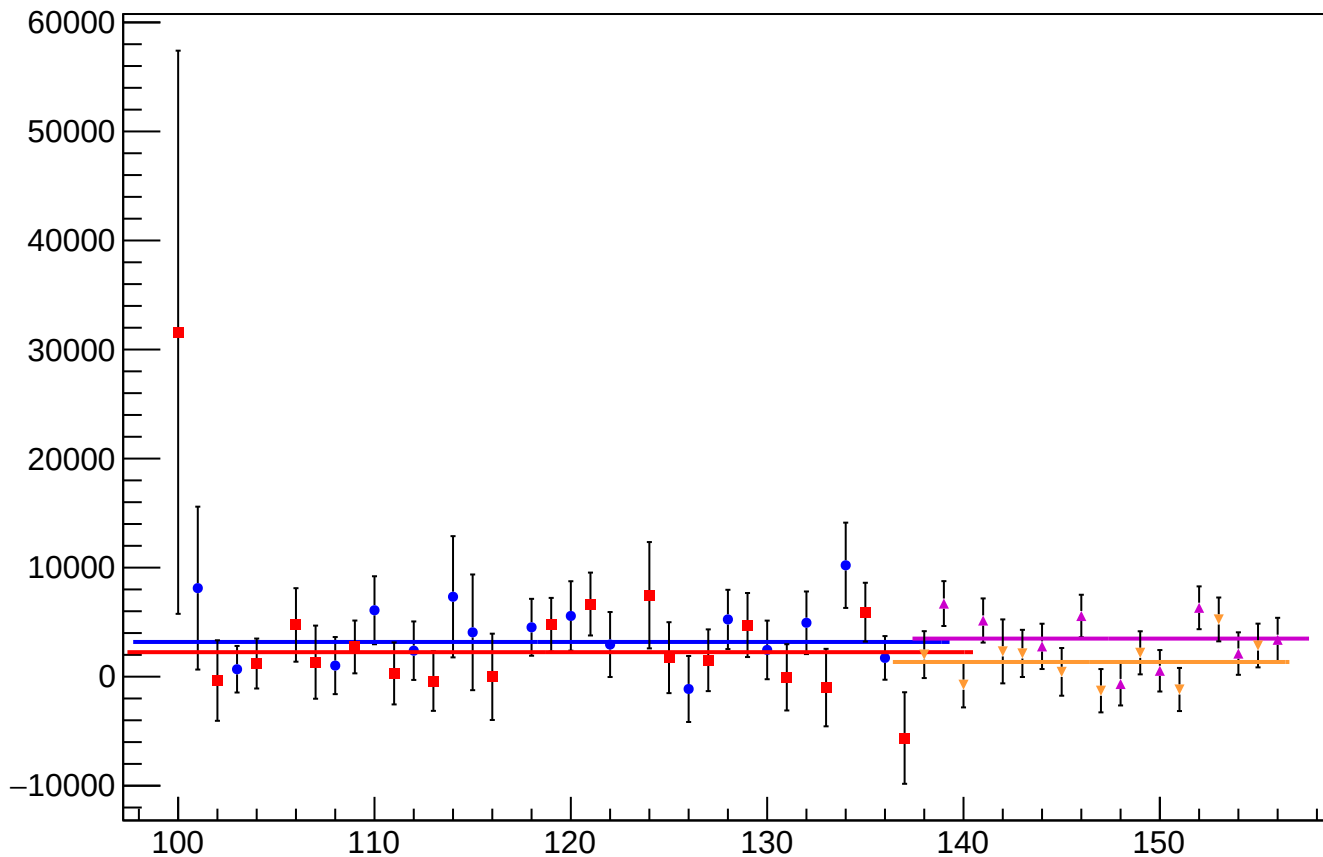
Right: 3879.542 $\pm$ 0.753 χ^2 /NDF: 2387214.5/34

In: 4212.286 $\pm$ 0.789 χ^2 /NDF: 1463763.1/24

Out: 3935.350 $\pm$ 0.740 χ^2 /NDF: 1828497.2/28

All: 4064.915 $\pm$ 0.540 χ^2 /NDF: 3357803.3/53

cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973+/-731.133 χ^2/NDF : 11.7/15

Left Out: 1346.562+/-666.900 χ^2/NDF : 9.4/9

Right Out: 2247.193+/-710.916 χ^2/NDF : 16.5/18

Left In: 3491.161+/-662.430 χ^2/NDF : 13.8/8

Left: 2426.074+/-469.981 χ^2/NDF : 28.4/18

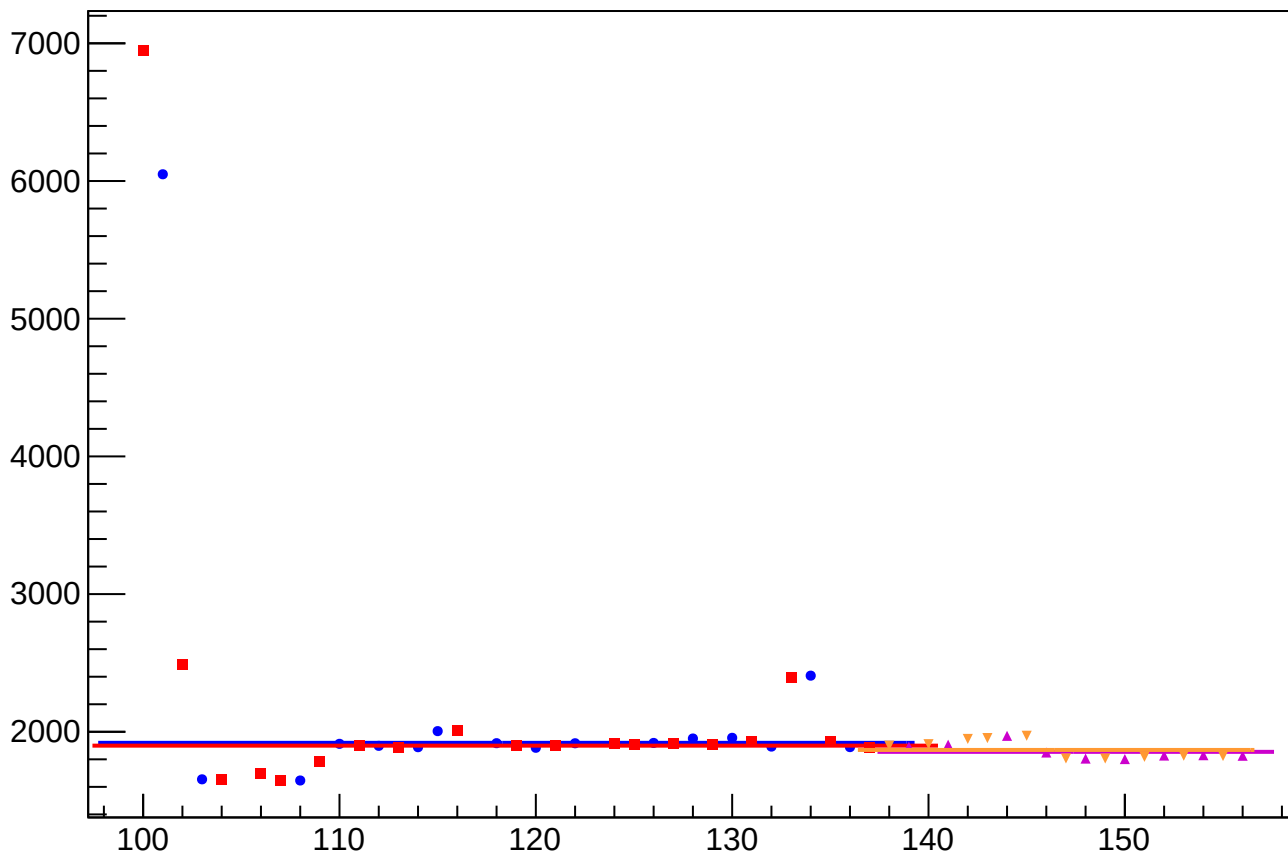
Right: 2701.966+/-509.691 χ^2/NDF : 29.1/34

In: 3352.224+/-490.905 χ^2/NDF : 25.6/24

Out: 1768.136+/-486.386 χ^2/NDF : 26.8/28

All: 2552.855+/-345.514 χ^2/NDF : 57.7/53

cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697330.6/15

Left Out: 1868.133+/-0.472 χ^2/NDF : 17381.5/9

Right Out: 1899.364+/-0.502 χ^2/NDF : 215654.1/18

Left In: 1854.359+/-0.468 χ^2/NDF : 12116.8/8

Left: 1861.200+/-0.332 χ^2/NDF : 29927.8/18

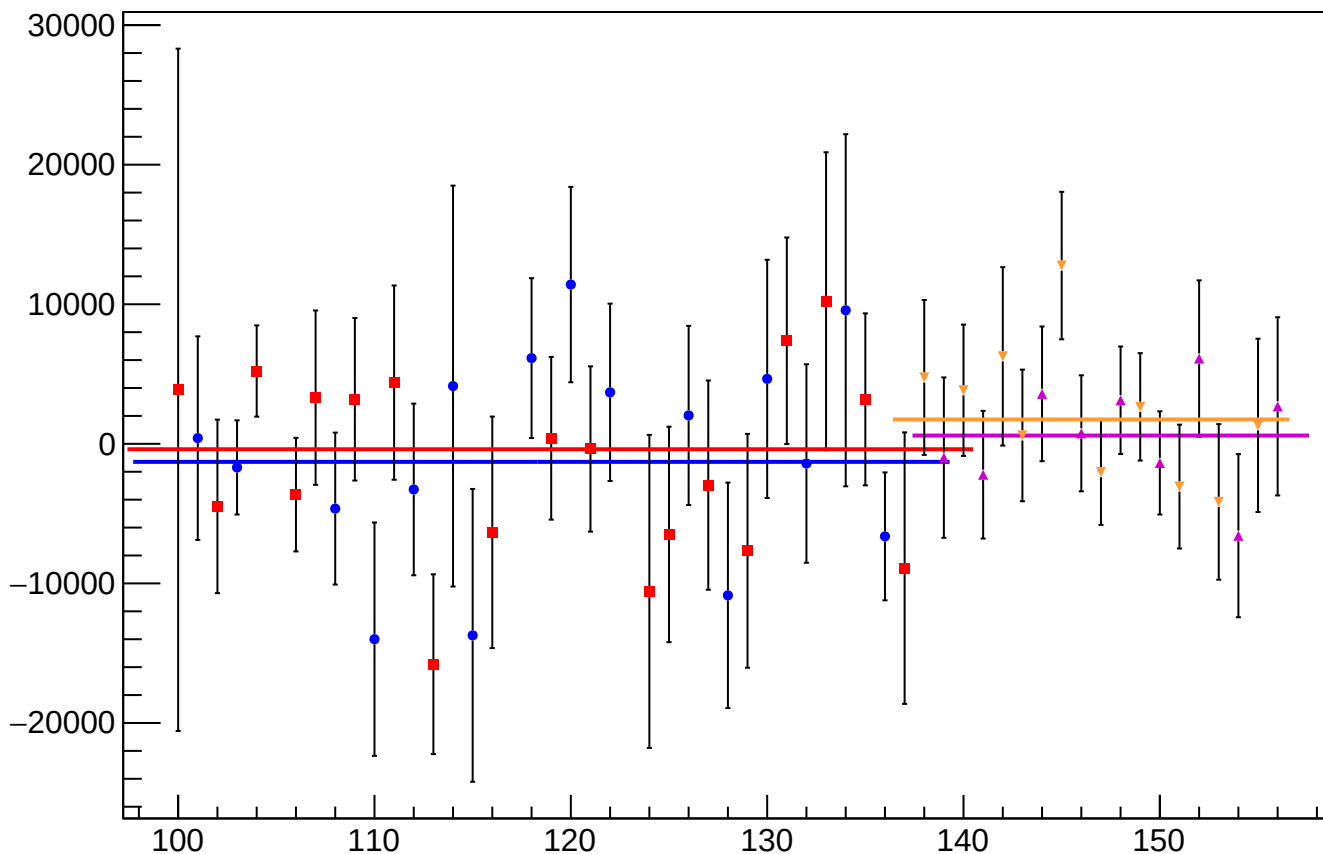
Right: 1909.293+/-0.360 χ^2/NDF : 913791.4/34

In: 1883.874+/-0.347 χ^2/NDF : 718254.2/24

Out: 1882.776+/-0.344 χ^2/NDF : 235092.1/28

All: 1883.320+/-0.244 χ^2/NDF : 953351.3/53

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: 1744.132 $\pm$ 1526.092 χ^2 /NDF:8.8/9

Right Out: -387.626 $\pm$ 1451.530 χ^2 /NDF: 17.0/18

Left In: 593.050 $\pm$ 1571.065 χ^2 /NDF:4.1/8

Left: 1185.302 $\pm$ 1094.664 χ^2 /NDF: 13.2/18

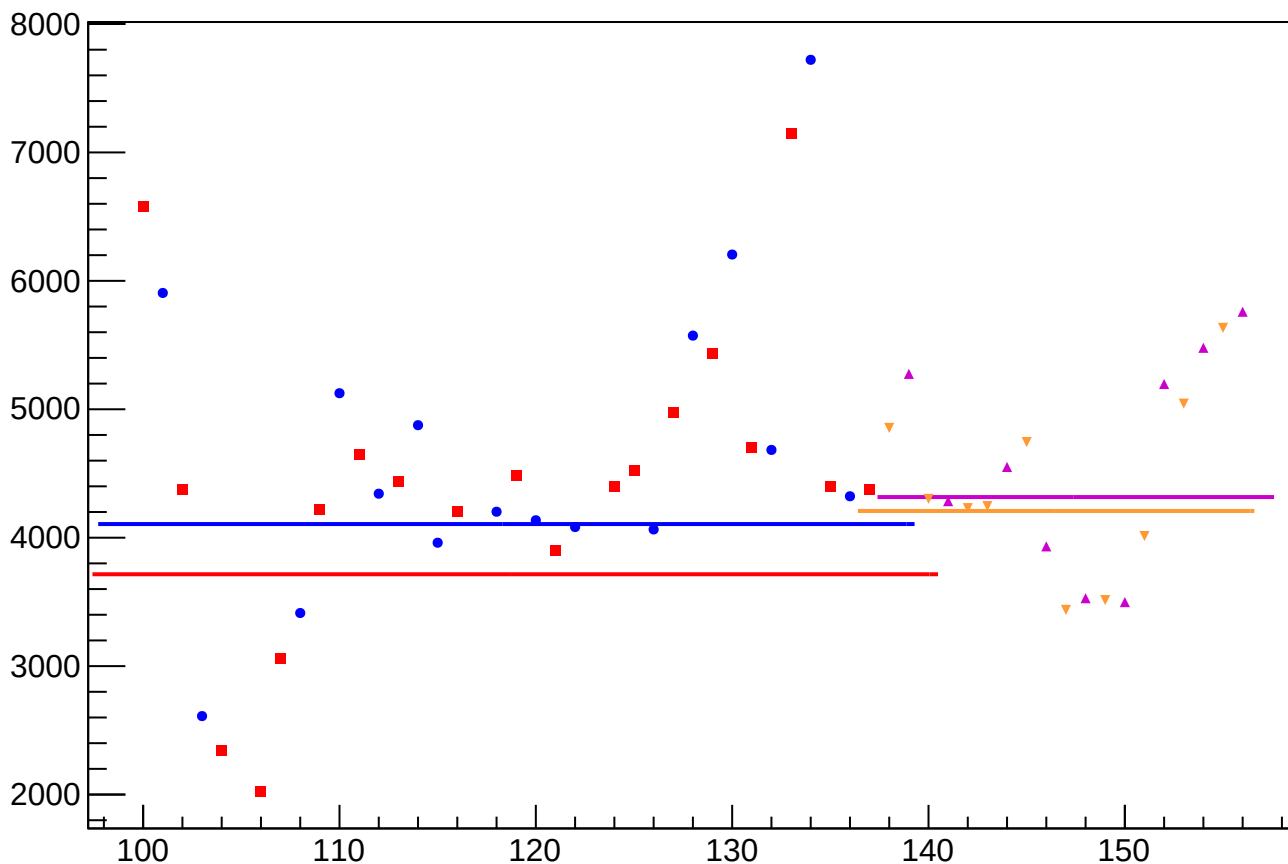
Right: -799.497 $\pm$ 1070.602 χ^2 /NDF: 31.4/34

In: -340.330 $\pm$ 1115.957 χ^2 /NDF:19.1/24

Out: 624.906 $\pm$ 1051.759 χ^2 /NDF:26.8/28

All: 170.849 $\pm$ 765.395 χ^2 /NDF: 46.3/53

asym_atr_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4106.234+/-1.121 χ^2/NDF : 955631.2/15

Left Out: 4208.191+/-1.079 χ^2/NDF : 351203.5/9

Right Out: 3715.202+/-1.026 χ^2/NDF : 1335100.7/18

Left In: 4316.521+/-1.111 χ^2/NDF : 489860.1/8

Left: 4260.783+/-0.774 χ^2/NDF : 845956.2/18

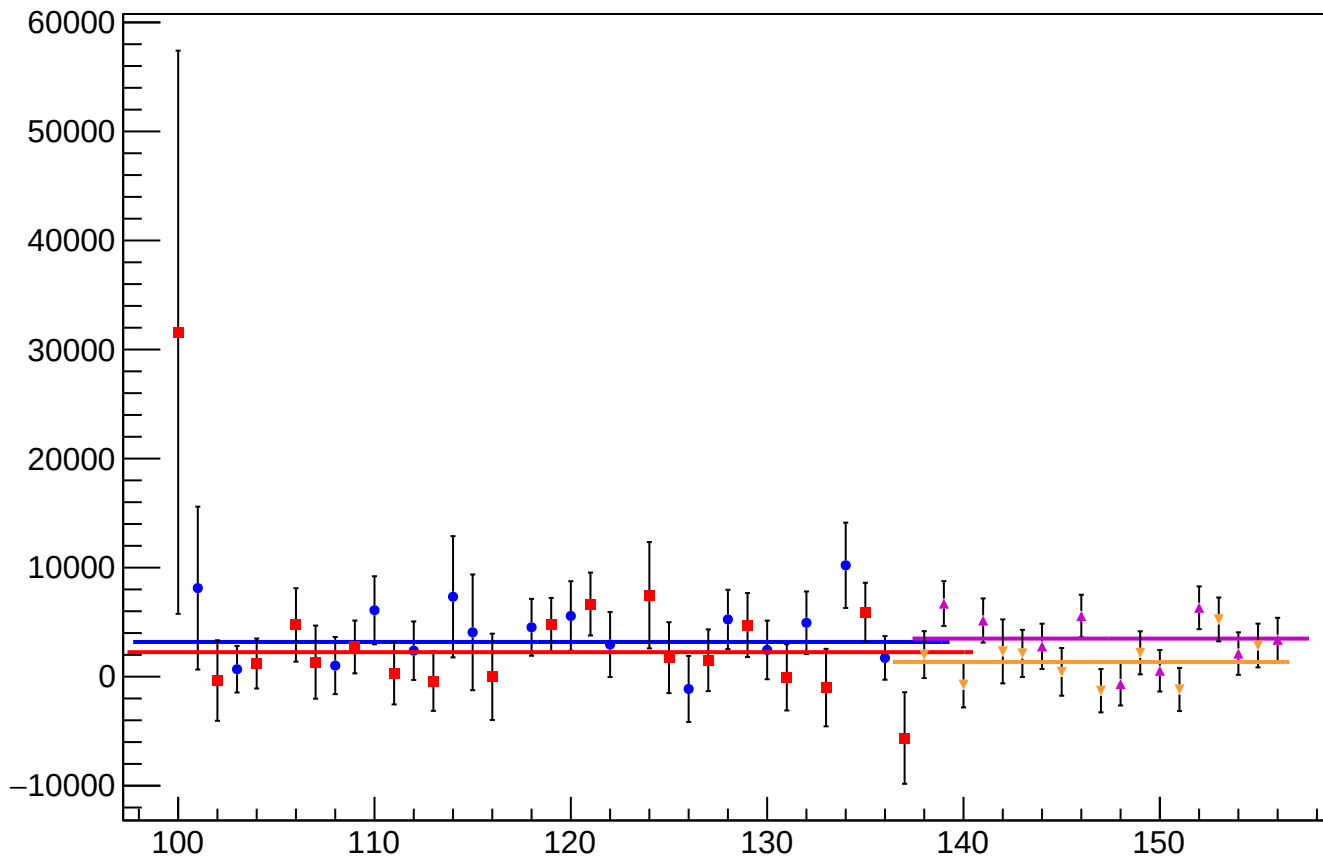
Right: 3893.510+/-0.757 χ^2/NDF : 2356917.1/34

In: 4212.335+/-0.789 χ^2/NDF : 1463244.0/24

Out: 3949.360+/-0.744 χ^2/NDF : 1795881.9/28

All: 4073.066+/-0.541 χ^2/NDF : 3317943.2/53

eigen_cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973+/-731.133 χ^2/NDF : 11.7/15

Left Out: 1346.562+/-666.900 χ^2/NDF : 9.4/9

Right Out: 2247.193+/-710.916 χ^2/NDF : 16.5/18

Left In: 3491.161+/-662.430 χ^2/NDF : 13.8/8

Left: 2426.074+/-469.981 χ^2/NDF : 28.4/18

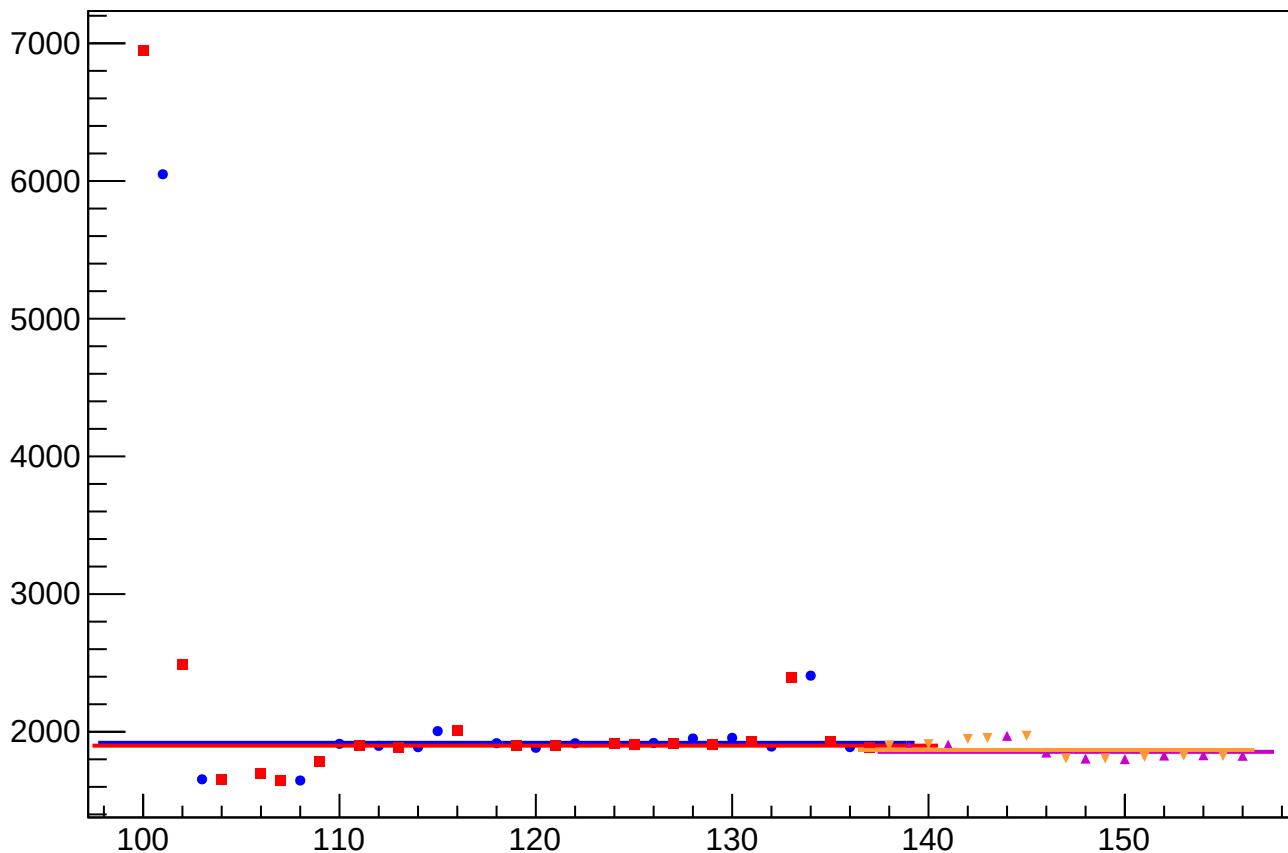
Right: 2701.966+/-509.691 χ^2/NDF : 29.1/34

In: 3352.224+/-490.905 χ^2/NDF : 25.6/24

Out: 1768.136+/-486.386 χ^2/NDF : 26.8/28

All: 2552.855+/-345.514 χ^2/NDF : 57.7/53

eigen_cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697330.6/15

Left Out: 1868.133+/-0.472 χ^2/NDF : 17381.5/9

Right Out: 1899.364+/-0.502 χ^2/NDF : 215654.1/18

Left In: 1854.359+/-0.468 χ^2/NDF : 12116.8/8

Left: 1861.200+/-0.332 χ^2/NDF : 29927.8/18

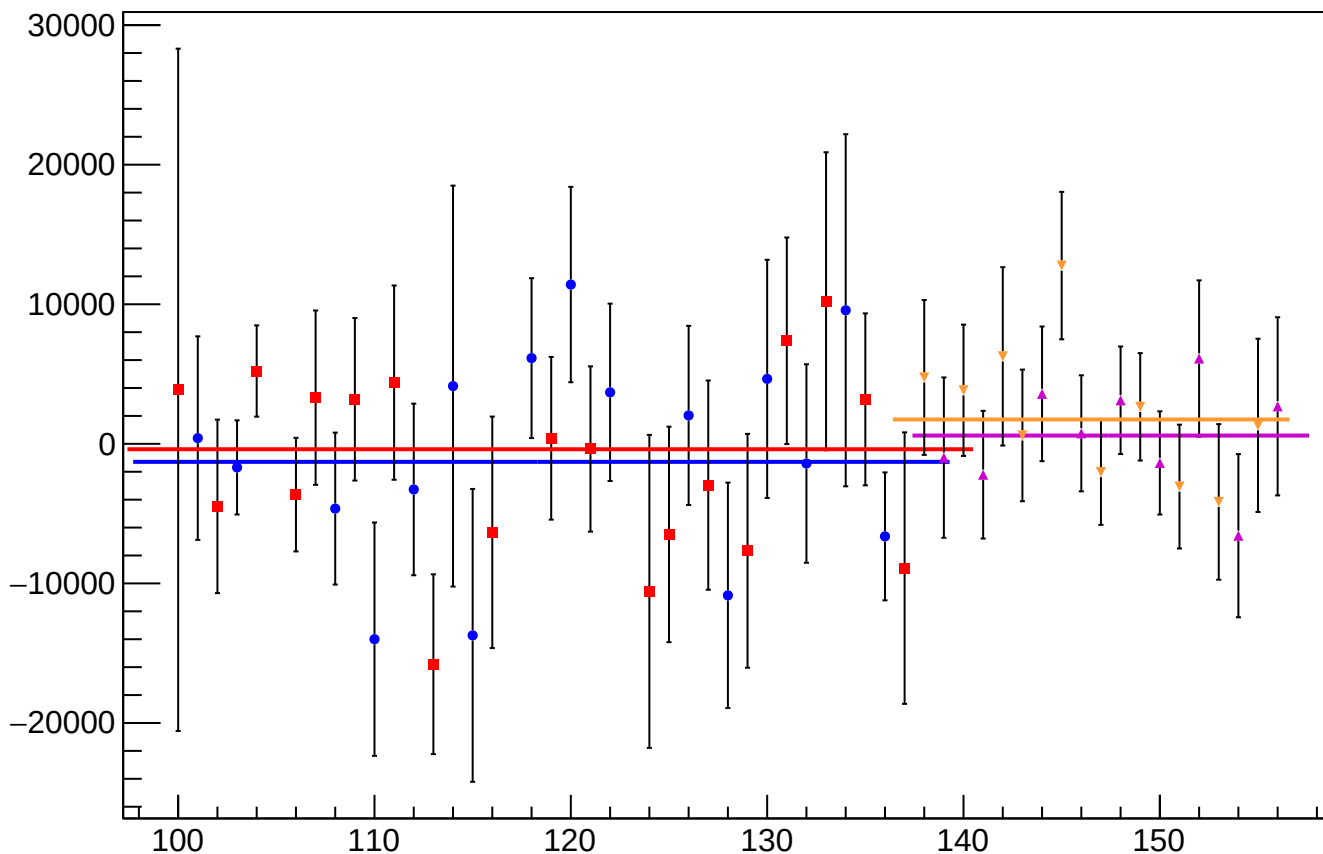
Right: 1909.293+/-0.360 χ^2/NDF : 913791.4/34

In: 1883.874+/-0.347 χ^2/NDF : 718254.2/24

Out: 1882.776+/-0.344 χ^2/NDF : 235092.1/28

All: 1883.320+/-0.244 χ^2/NDF : 953351.3/53

asym_atr_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1290.862 $\pm$ 1585.435 χ^2 /NDF: 14.3/15

Left Out: 1744.132 $\pm$ 1526.092 χ^2 /NDF:8.8/9

Right Out: -387.626 $\pm$ 1451.530 χ^2 /NDF: 17.0/18

Left In: 593.050 $\pm$ 1571.065 χ^2 /NDF:4.1/8

Left: 1185.302 $\pm$ 1094.664 χ^2 /NDF: 13.2/18

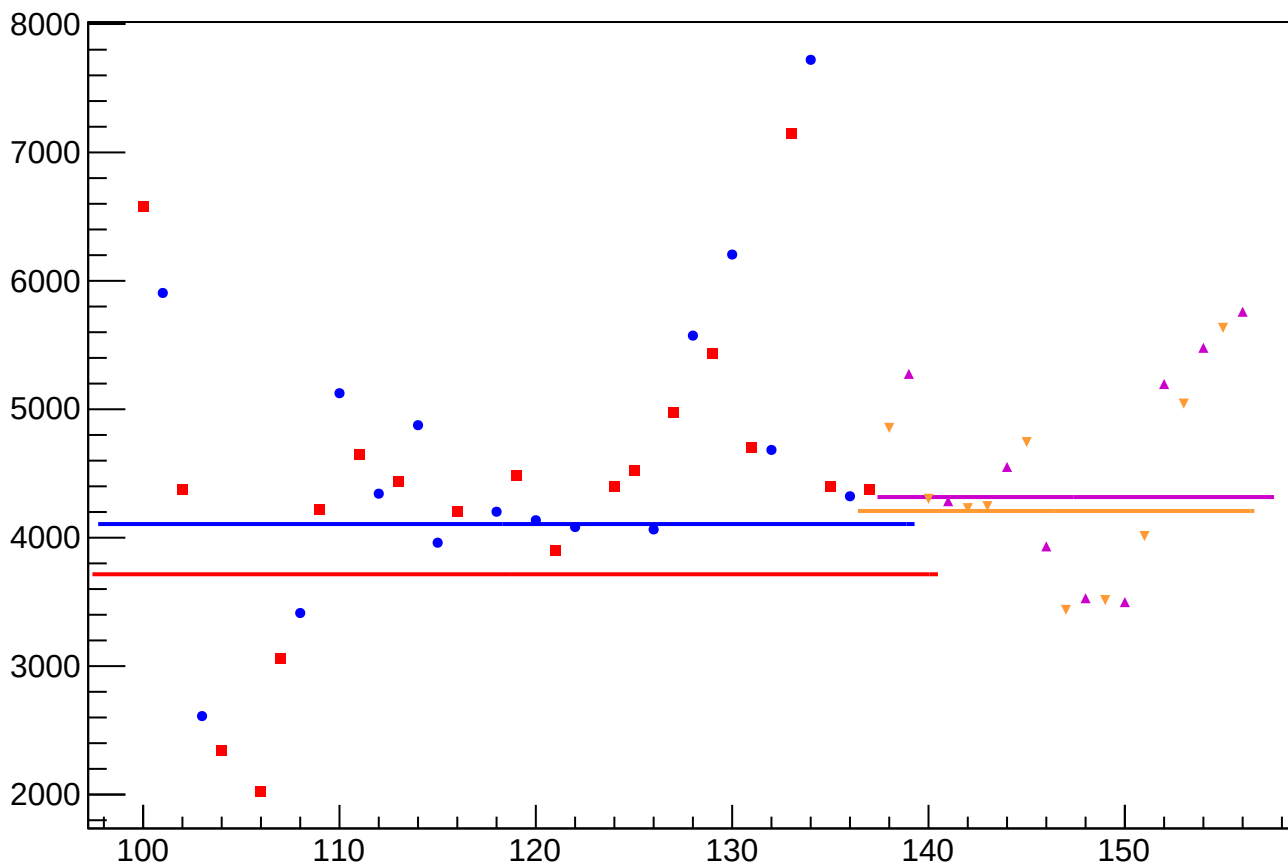
Right: -799.497 $\pm$ 1070.602 χ^2 /NDF: 31.4/34

In: -340.330 $\pm$ 1115.957 χ^2 /NDF:19.1/24

Out: 624.906 $\pm$ 1051.759 χ^2 /NDF:26.8/28

All: 170.849 $\pm$ 765.395 χ^2 /NDF: 46.3/53

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: 4208.191+/-1.079 χ^2/NDF : 351203.5/9

Right Out: 3715.202+/-1.026 χ^2/NDF : 1335100.7/18

Left In: 4316.521+/-1.111 χ^2/NDF : 489860.1/8

Left: 4260.783+/-0.774 χ^2/NDF : 845956.2/18

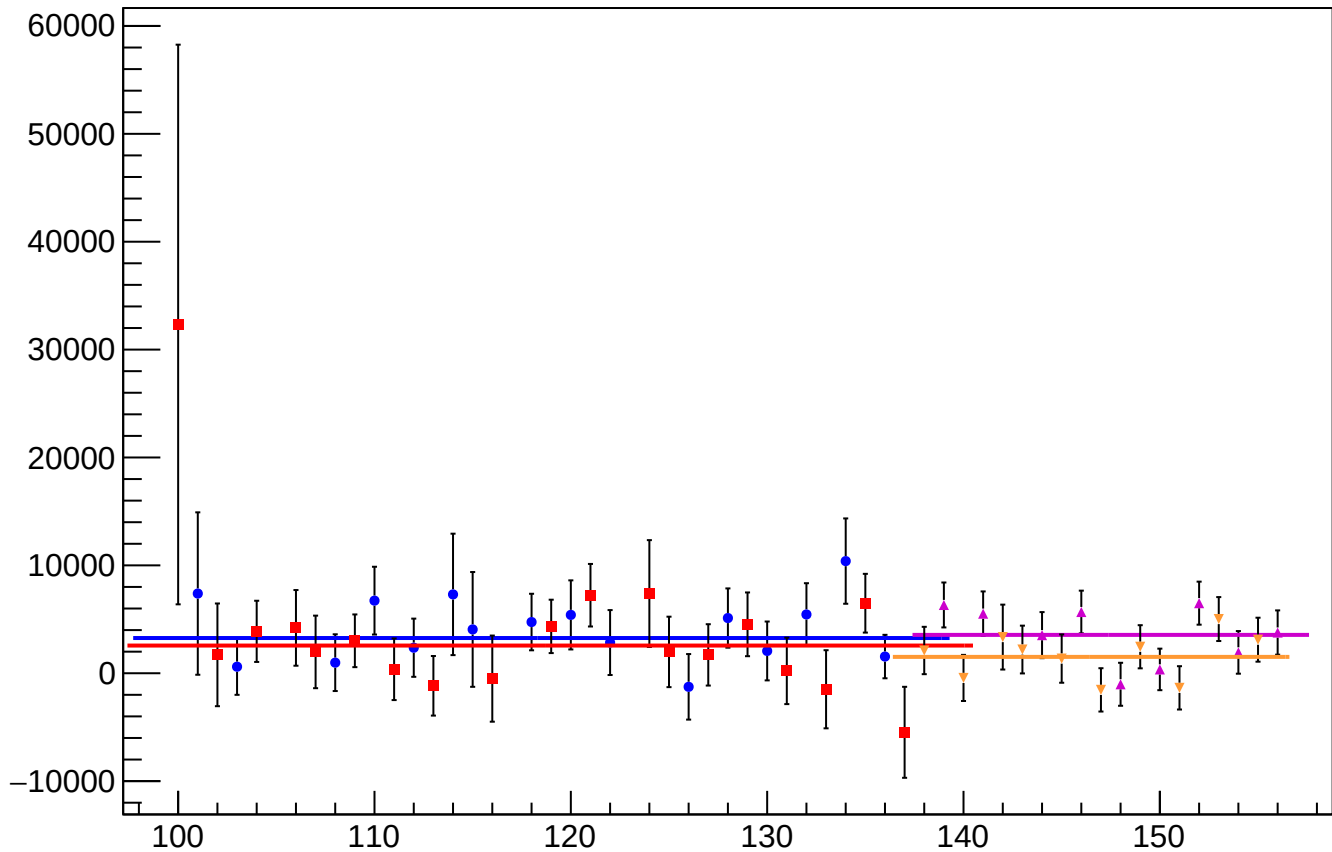
Right: 3893.510+/-0.757 χ^2/NDF : 2356917.1/34

In: 4212.335+/-0.789 χ^2/NDF : 1463244.0/24

Out: 3949.360+/-0.744 χ^2/NDF : 1795881.9/28

All: 4073.066+/-0.541 χ^2/NDF : 3317943.2/53

dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.639 ± 750.865 χ^2/NDF : 12.2/15

Left Out: 1516.292 ± 679.084 χ^2/NDF : 9.5/9

Right Out: 2566.683 ± 734.876 χ^2/NDF : 17.0/18

Left In: 3555.002 ± 673.019 χ^2/NDF : 14.7/8

Left: 2544.791 ± 478.026 χ^2/NDF : 28.8/18

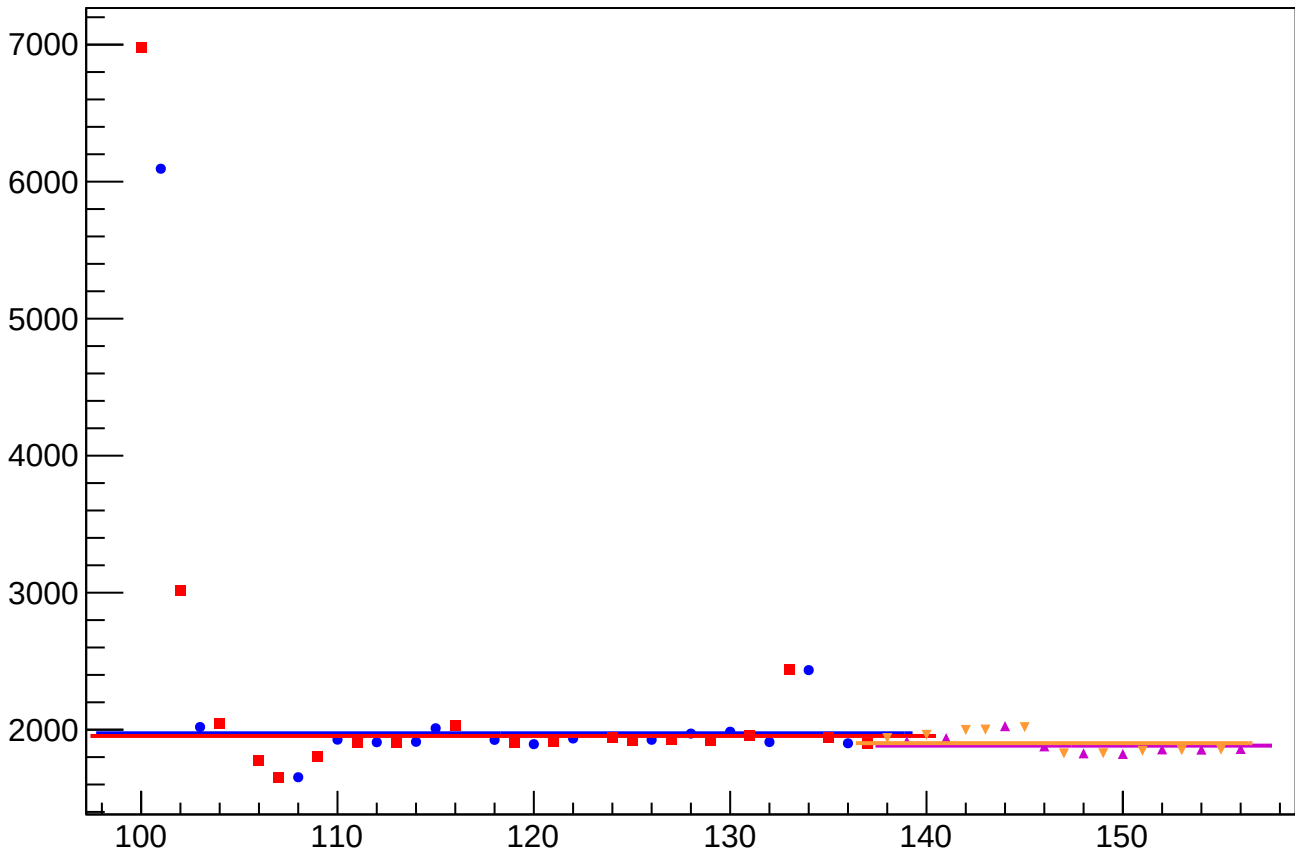
Right: 2908.151 ± 525.197 χ^2/NDF : 29.6/34

In: 3425.648 ± 501.166 χ^2/NDF : 27.0/24

Out: 2000.106 ± 498.744 χ^2/NDF : 27.7/28

All: 2709.423 ± 353.518 χ^2/NDF : 58.7/53

dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748 $\pm$ 0.531 χ^2 /NDF: 665124.2/15

Left Out: 1901.866 $\pm$ 0.480 χ^2 /NDF: 23003.1/9

Right Out: 1954.339 $\pm$ 0.519 χ^2 /NDF: 246211.3/18

Left In: 1883.761 $\pm$ 0.476 χ^2 /NDF: 15419.2/8

Left: 1892.732 $\pm$ 0.338 χ^2 /NDF: 39139.4/18

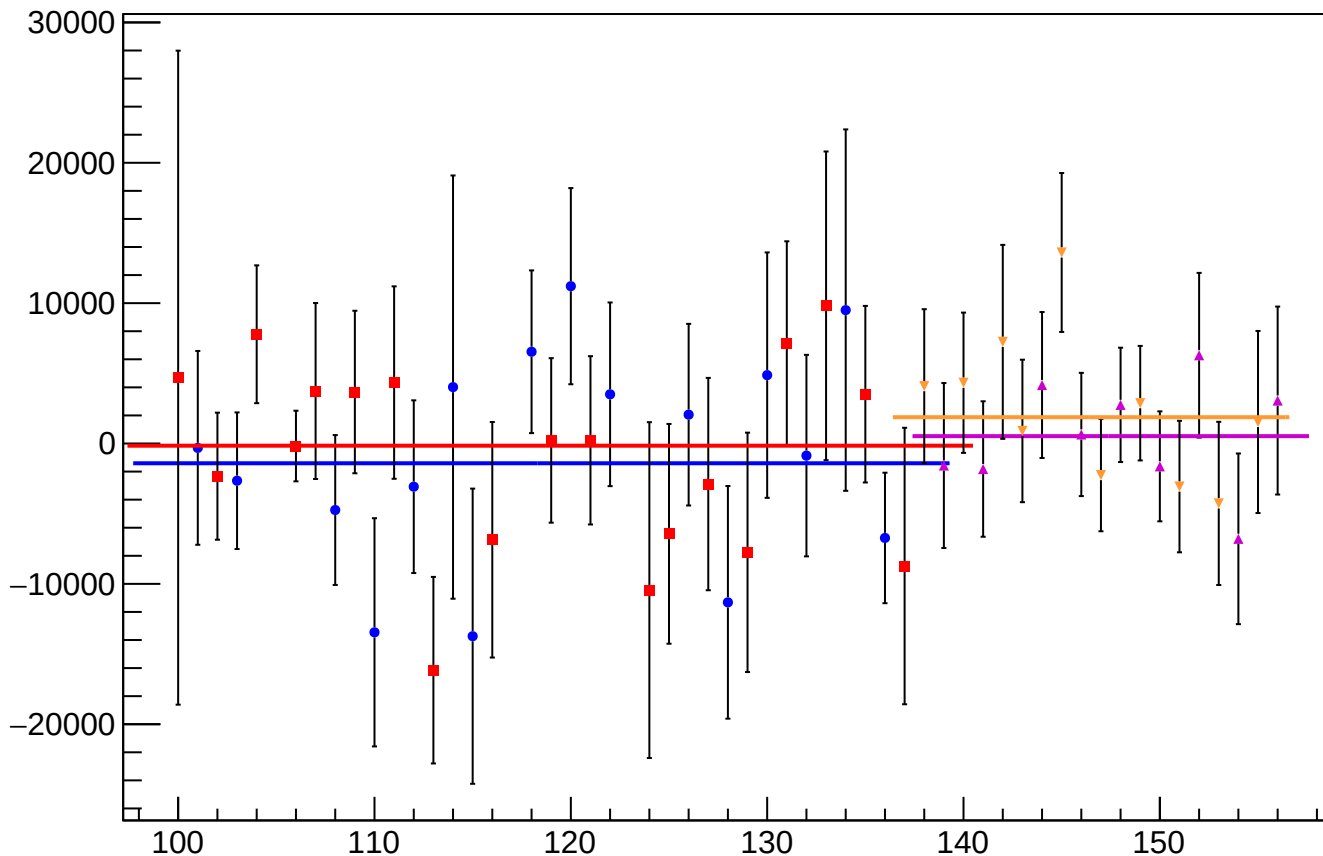
Right: 1963.826 $\pm$ 0.371 χ^2 /NDF: 912018.7/34

In: 1923.850 $\pm$ 0.354 χ^2 /NDF: 696471.9/24

Out: 1926.058 $\pm$ 0.353 χ^2 /NDF: 274719.9/28

All: 1924.960 $\pm$ 0.250 χ^2 /NDF: 971211.3/53

asym_atr_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.382 $\pm$ 1689.989 χ^2 /NDF: 14.2/15

Left Out: 1874.541 $\pm$ 1610.127 χ^2 /NDF:8.7/9

Right Out: -155.271 $\pm$ 1363.642 χ^2 /NDF: 15.8/18

Left In: 524.704 $\pm$ 1656.133 χ^2 /NDF:4.0/8

Left: 1218.631 $\pm$ 1154.454 χ^2 /NDF: 13.0/18

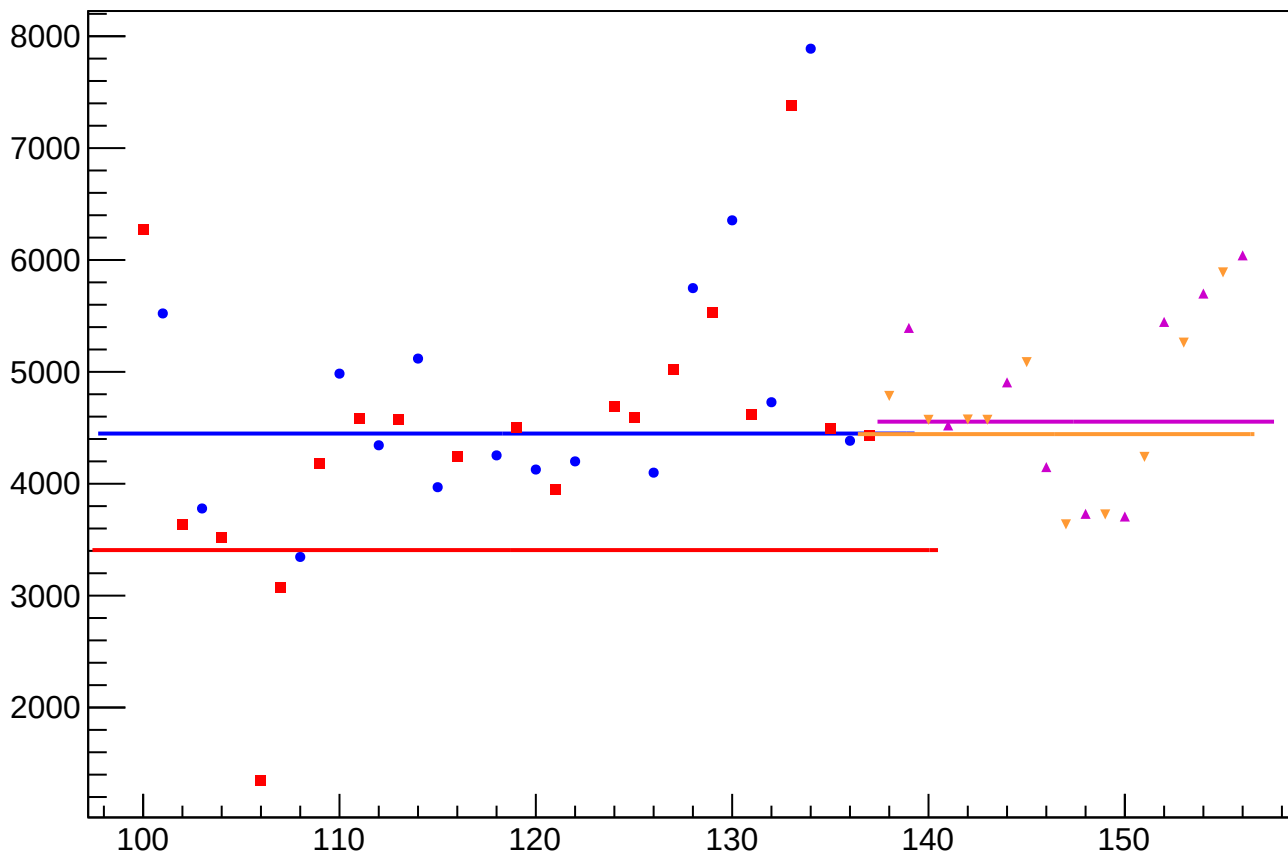
Right: -649.023 $\pm$ 1061.247 χ^2 /NDF: 30.4/34

In: -421.792 $\pm$ 1182.851 χ^2 /NDF:18.9/24

Out: 692.539 $\pm$ 1040.595 χ^2 /NDF:25.4/28

All: 206.378 $\pm$ 781.291 χ^2 /NDF: 44.8/53

asym_atr_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4448.711+/-1.195 χ^2/NDF : 494613.5/15

Left Out: 4443.647+/-1.139 χ^2/NDF : 322666.8/9

Right Out: 3407.128+/-0.964 χ^2/NDF : 2326060.4/18

Left In: 4554.894+/-1.171 χ^2/NDF : 458129.6/8

Left: 4497.704+/-0.816 χ^2/NDF : 785435.7/18

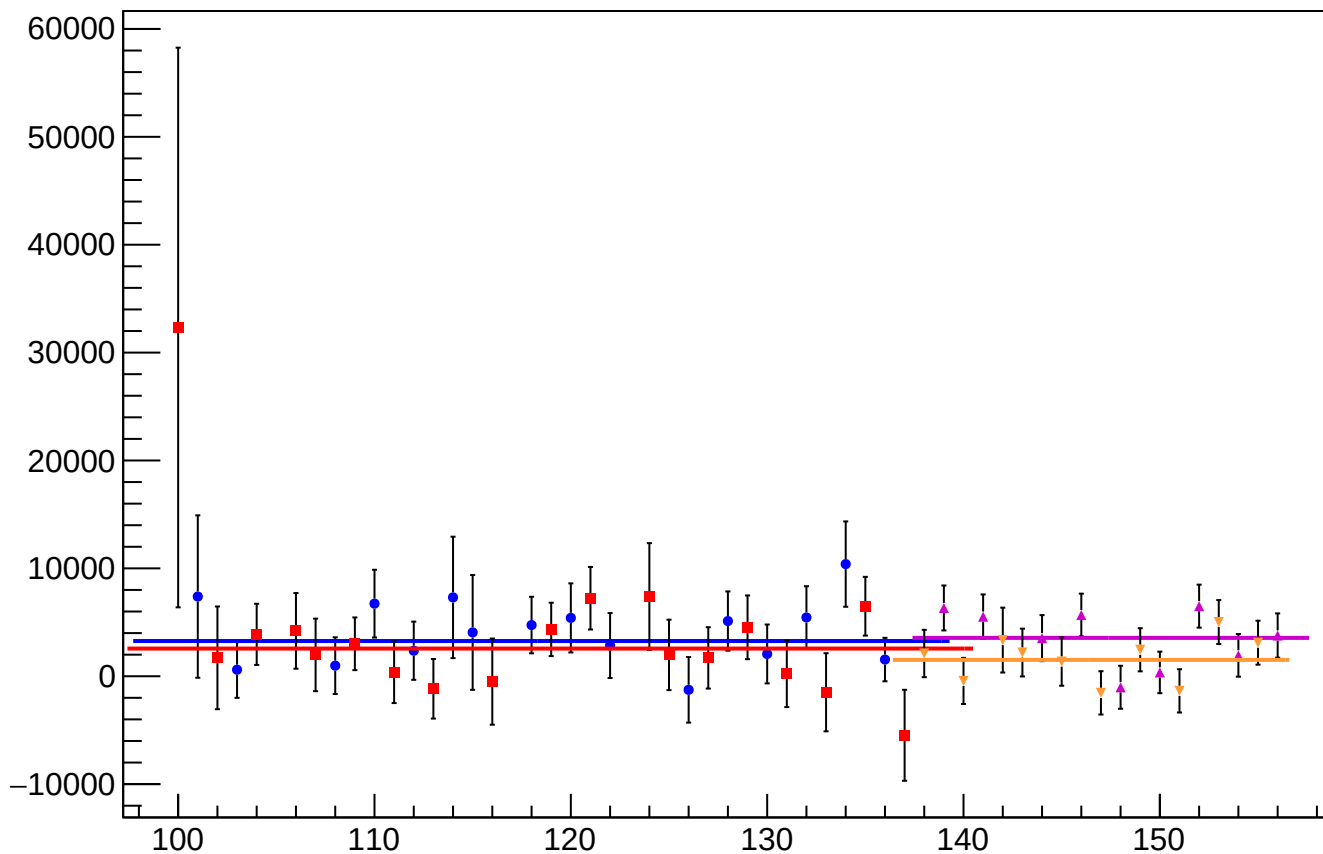
Right: 3817.861+/-0.750 χ^2/NDF : 3280806.0/34

In: 4502.877+/-0.836 χ^2/NDF : 956770.7/24

Out: 3840.060+/-0.736 χ^2/NDF : 3131371.1/28

All: 4129.234+/-0.552 χ^2/NDF : 4442154.9/53

eigen_dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.644+/-750.865 χ^2/NDF : 12.2/15

Left Out: 1516.288+/-679.084 χ^2/NDF : 9.5/9

Right Out: 2566.689+/-734.875 χ^2/NDF : 17.0/18

Left In: 3554.999+/-673.019 χ^2/NDF : 14.7/8

Left: 2544.787+/-478.026 χ^2/NDF : 28.8/18

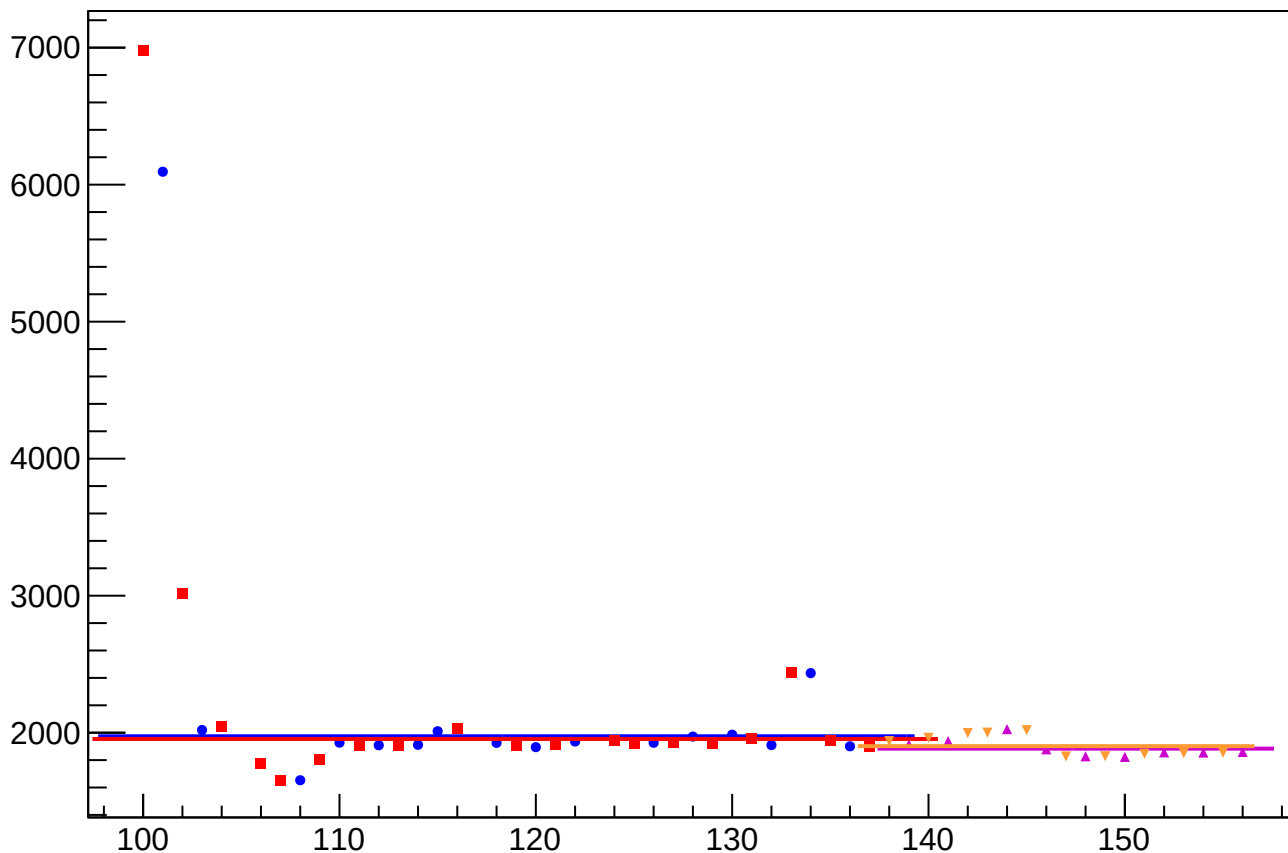
Right: 2908.156+/-525.197 χ^2/NDF : 29.6/34

In: 3425.648+/-501.166 χ^2/NDF : 27.0/24

Out: 2000.107+/-498.744 χ^2/NDF : 27.7/28

All: 2709.424+/-353.518 χ^2/NDF : 58.7/53

eigen_dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748+/-0.531 χ^2/NDF : 665124.2/15

Left Out: 1901.866+/-0.480 χ^2/NDF : 23003.2/9

Right Out: 1954.339+/-0.519 χ^2/NDF : 246210.8/18

Left In: 1883.762+/-0.476 χ^2/NDF : 15419.2/8

Left: 1892.733+/-0.338 χ^2/NDF : 39139.6/18

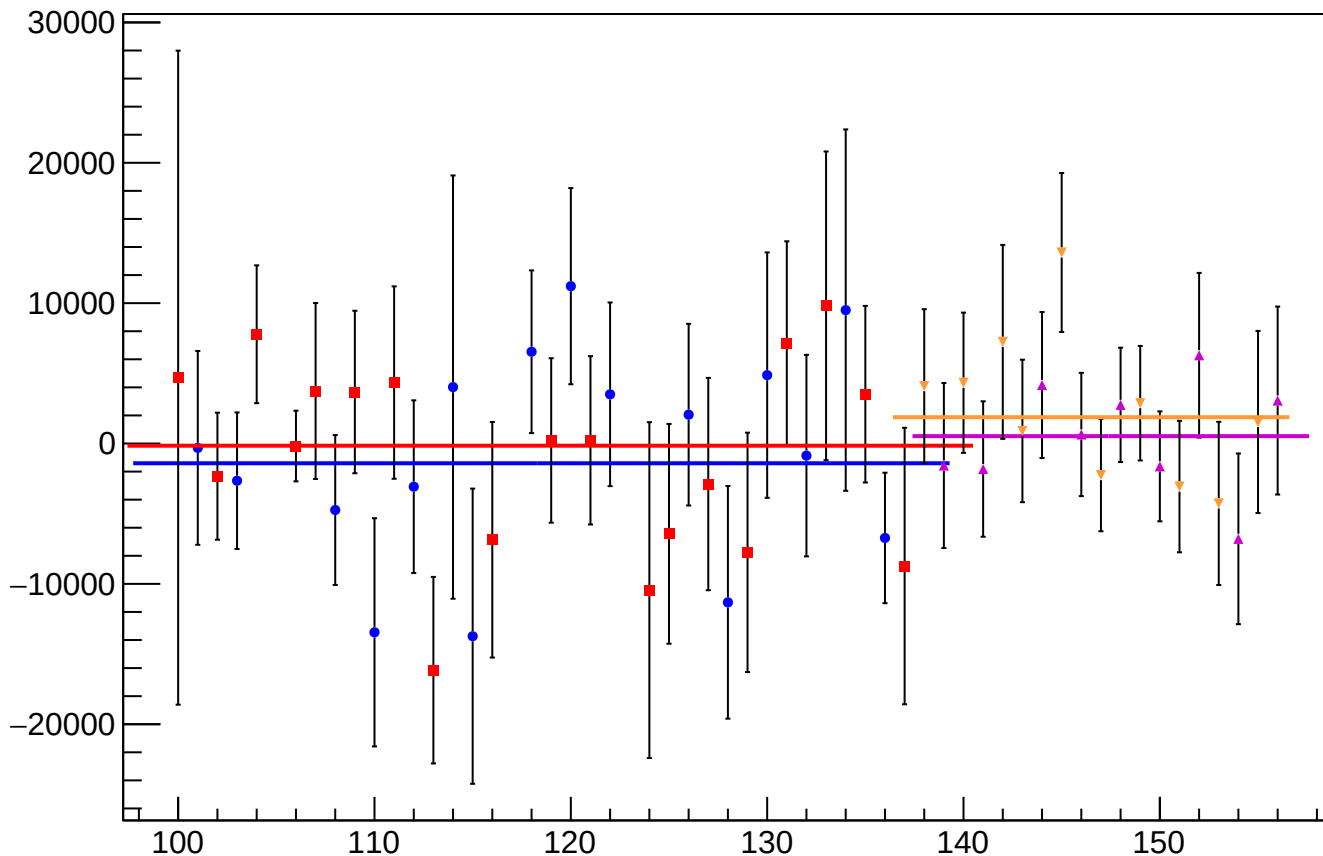
Right: 1963.826+/-0.371 χ^2/NDF : 912018.2/34

In: 1923.850+/-0.354 χ^2/NDF : 696471.6/24

Out: 1926.058+/-0.353 χ^2/NDF : 274719.3/28

All: 1924.960+/-0.250 χ^2/NDF : 971210.5/53

asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.363 $\pm$ 1689.986 χ^2 /NDF: 14.2/15

Left Out: 1874.537 $\pm$ 1610.130 χ^2 /NDF:8.7/9

Right Out: -155.272 $\pm$ 1363.639 χ^2 /NDF: 15.8/18

Left In: 524.700 $\pm$ 1656.135 χ^2 /NDF:4.0/8

Left: 1218.628 $\pm$ 1154.455 χ^2 /NDF: 13.0/18

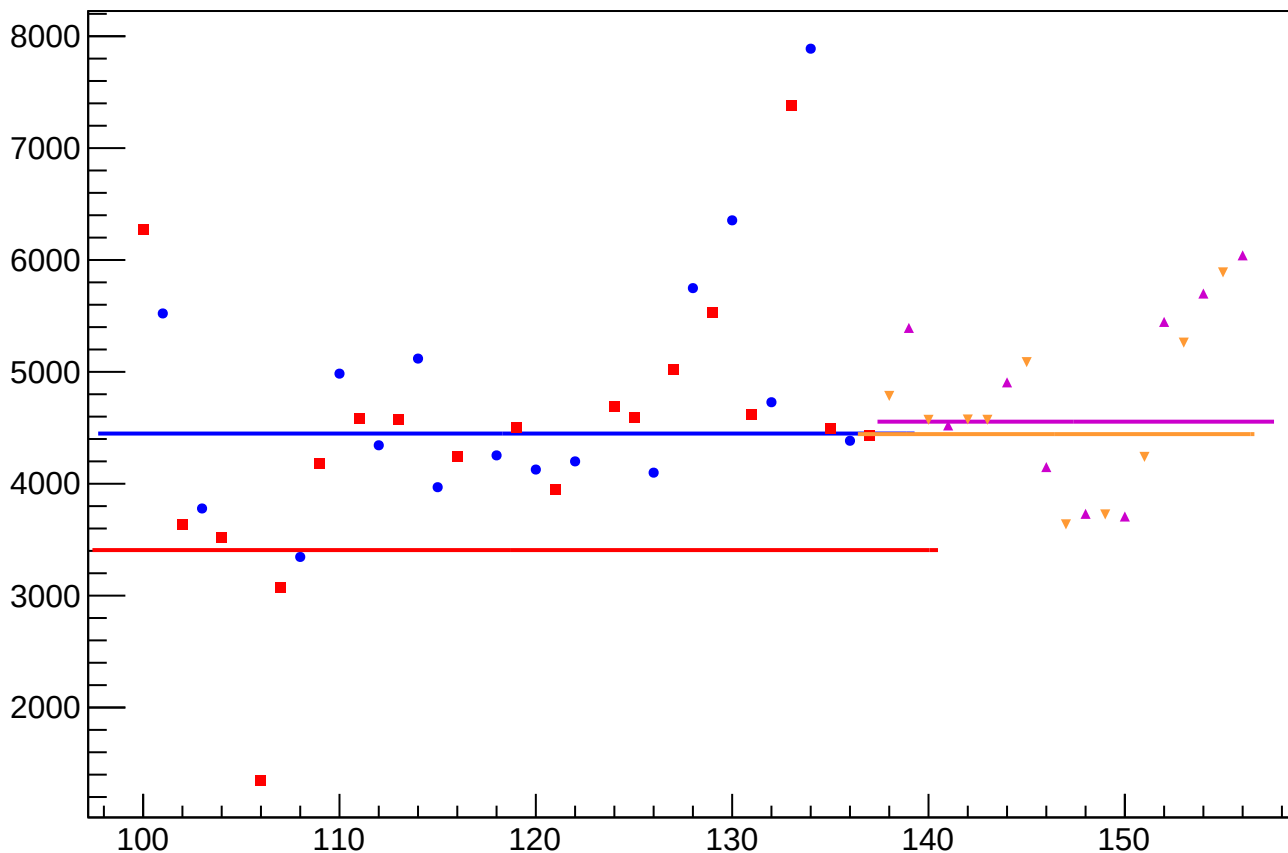
Right: -649.016 $\pm$ 1061.245 χ^2 /NDF: 30.4/34

In: -421.788 $\pm$ 1182.851 χ^2 /NDF:18.9/24

Out: 692.533 $\pm$ 1040.594 χ^2 /NDF:25.4/28

All: 206.377 $\pm$ 781.291 χ^2 /NDF: 44.8/53

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: 4443.653 ± 1.139 χ^2/NDF : 322665.8/9

Right Out: 3407.120 ± 0.964 χ^2/NDF : 2326064.2/18

Left In: 4554.901 ± 1.171 χ^2/NDF : 458126.9/8

Left: 4497.710 ± 0.816 χ^2/NDF : 785431.9/18

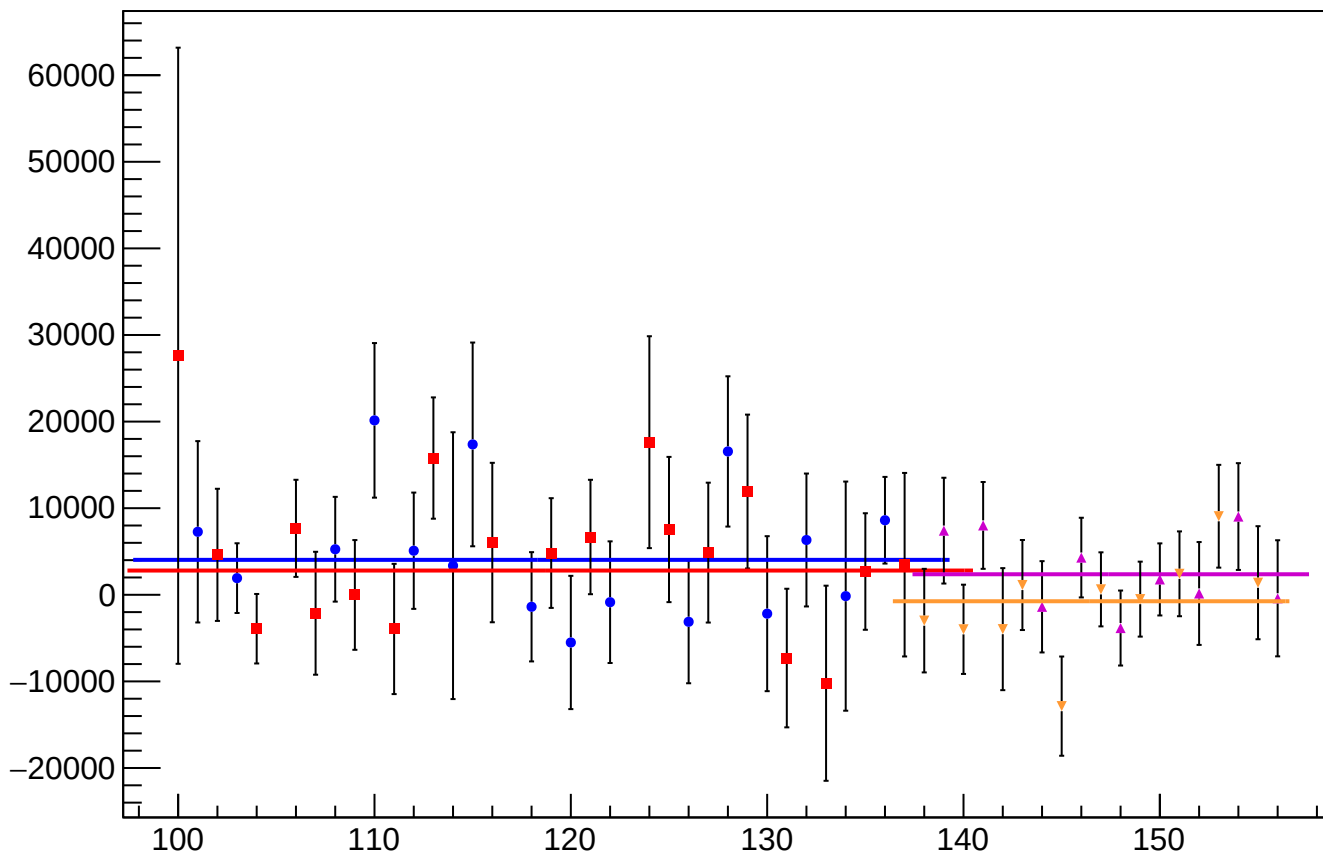
Right: 3817.853 ± 0.750 χ^2/NDF : 3280809.4/34

In: 4502.876 ± 0.836 χ^2/NDF : 956766.1/24

Out: 3840.056 ± 0.736 χ^2/NDF : 3131387.3/28

All: 4129.232 ± 0.552 χ^2/NDF : 4442170.5/53

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 4034.572 $\pm$ 1782.030 χ^2 /NDF: 12.3/15

Left Out: -745.314 $\pm$ 1678.648 χ^2 /NDF:8.7/9

Right Out: 2800.547 $\pm$ 1671.877 χ^2 /NDF: 15.4/18

Left In: 2371.291 $\pm$ 1720.499 χ^2 /NDF:6.2/8

Left: 774.622 $\pm$ 1201.507 χ^2 /NDF: 16.6/18

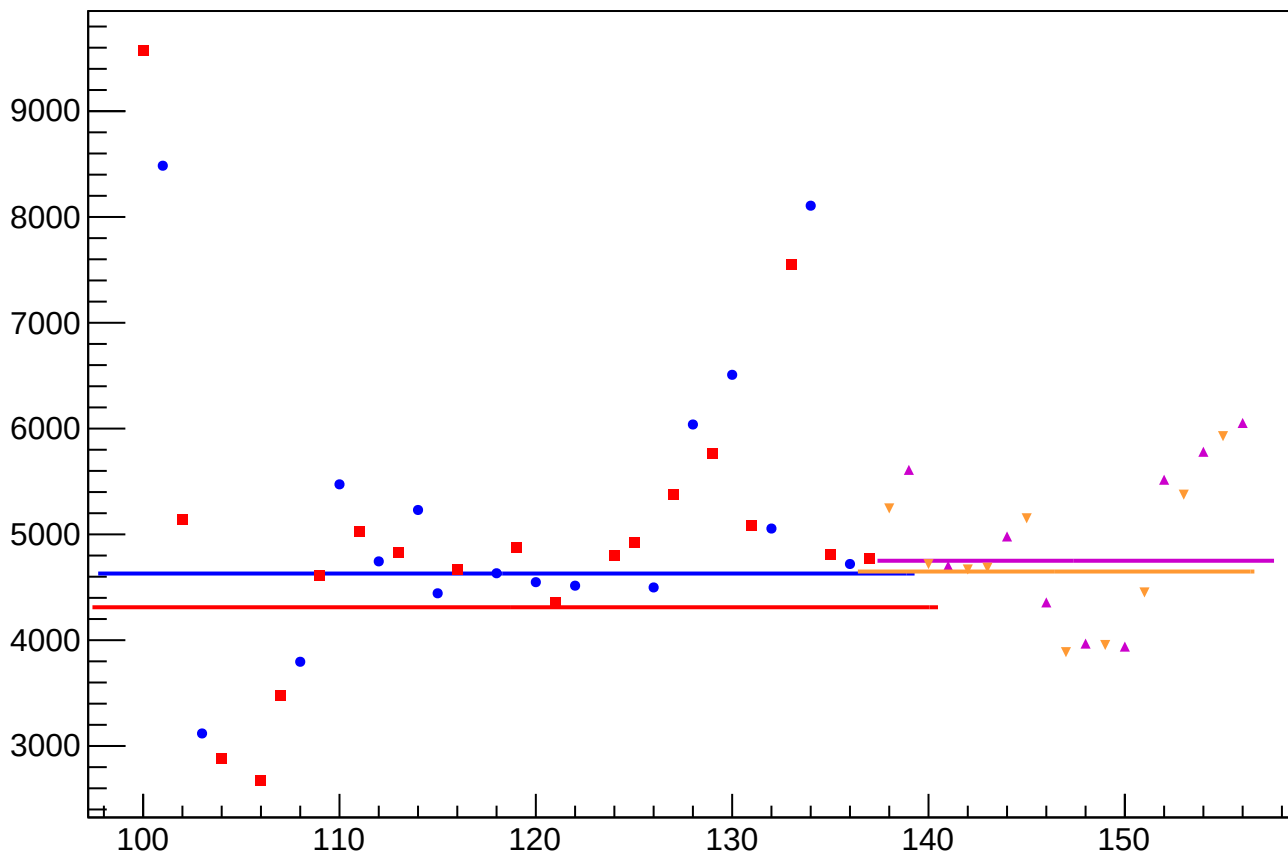
Right: 3378.243 $\pm$ 1219.278 χ^2 /NDF: 28.0/34

In: 3173.721 $\pm$ 1237.758 χ^2 /NDF:19.0/24

Out: 1034.782 $\pm$ 1184.582 χ^2 /NDF:26.4/28

All: 2057.320 $\pm$ 855.808 χ^2 /NDF: 46.9/53

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4629.967 ± 1.260 $\chi^2/\text{NDF}: 900246.3/15$

Left Out: 4648.932 ± 1.187 $\chi^2/\text{NDF}: 260909.1/9$

Right Out: 4311.218 ± 1.172 $\chi^2/\text{NDF}: 904737.2/18$

Left In: 4750.754 ± 1.217 $\chi^2/\text{NDF}: 364179.6/8$

Left: 4698.590 ± 0.850 $\chi^2/\text{NDF}: 628677.3/18$

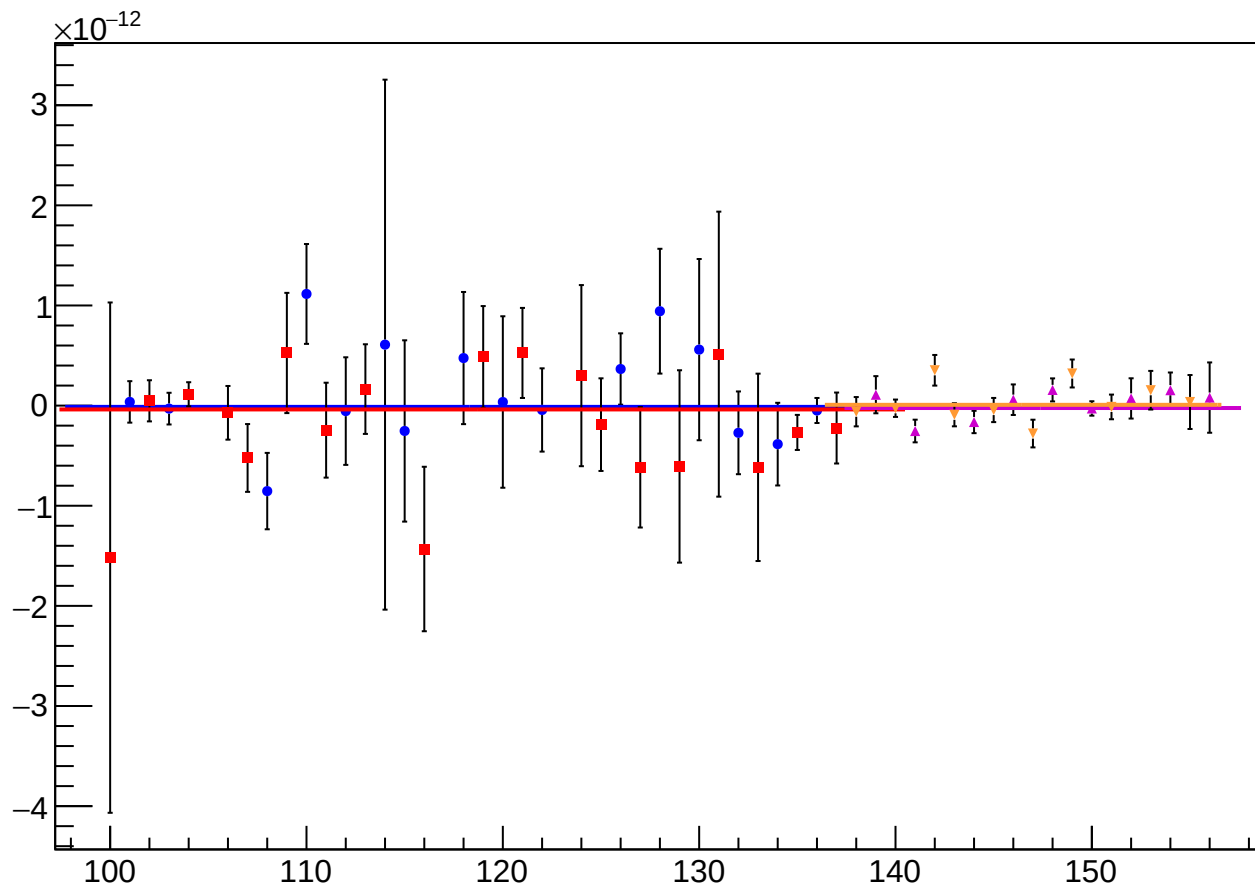
Right: 4459.059 ± 0.858 $\chi^2/\text{NDF}: 1839292.8/34$

In: 4692.482 ± 0.875 $\chi^2/\text{NDF}: 1269181.5/24$

Out: 4477.926 ± 0.834 $\chi^2/\text{NDF}: 1206635.8/28$

All: 4580.027 ± 0.604 $\chi^2/\text{NDF}: 2507315.0/53$

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 :16.3/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/18

Left In: -0.000+/-0.000 χ^2/NDF :10.3/8

Left: -0.000+/-0.000 χ^2/NDF : 26.9/18

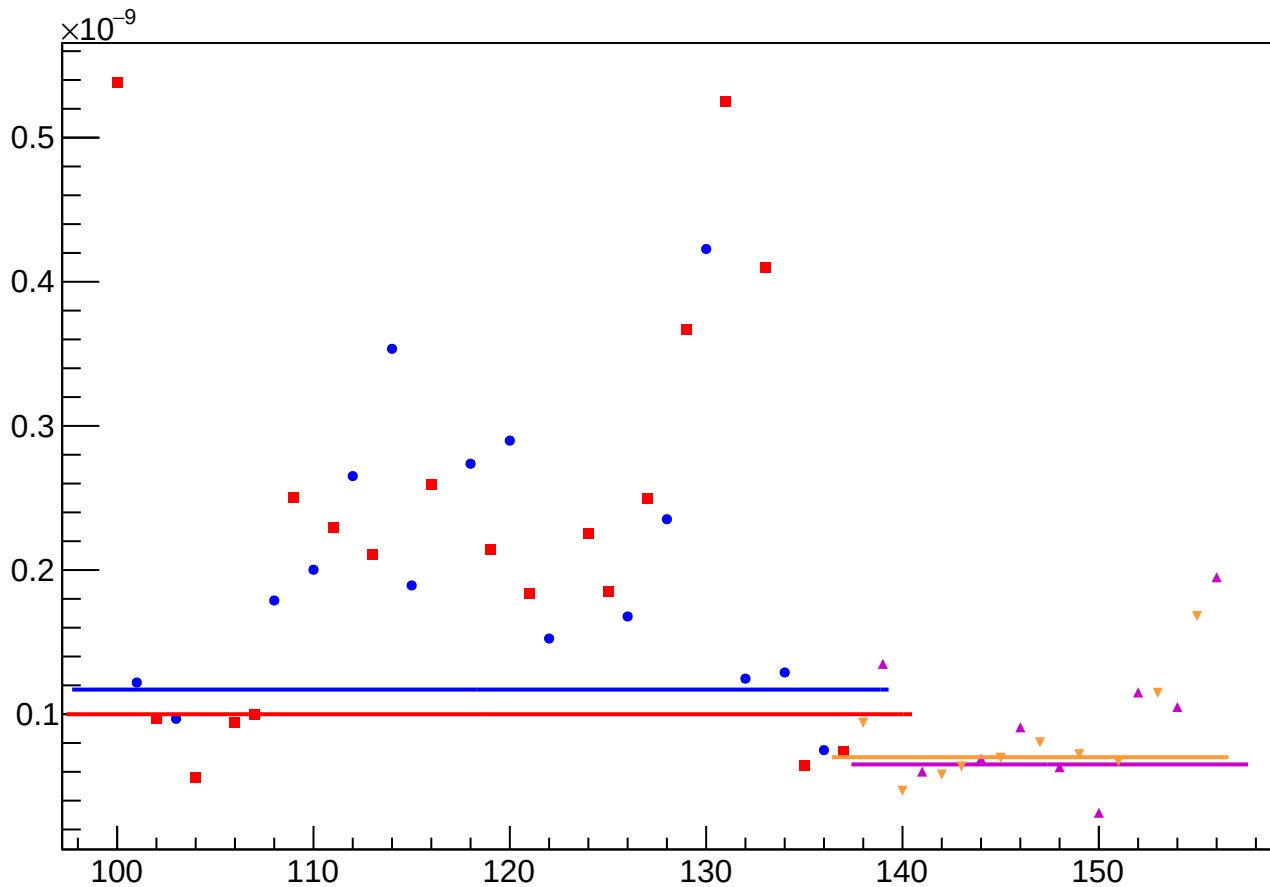
Right: -0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF :26.2/24

Out: -0.000+/-0.000 χ^2/NDF :31.6/28

All: -0.000+/-0.000 χ^2/NDF : 57.9/53

asym_atr_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1100462.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 599511.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1844111.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1280519.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1894413.6/18

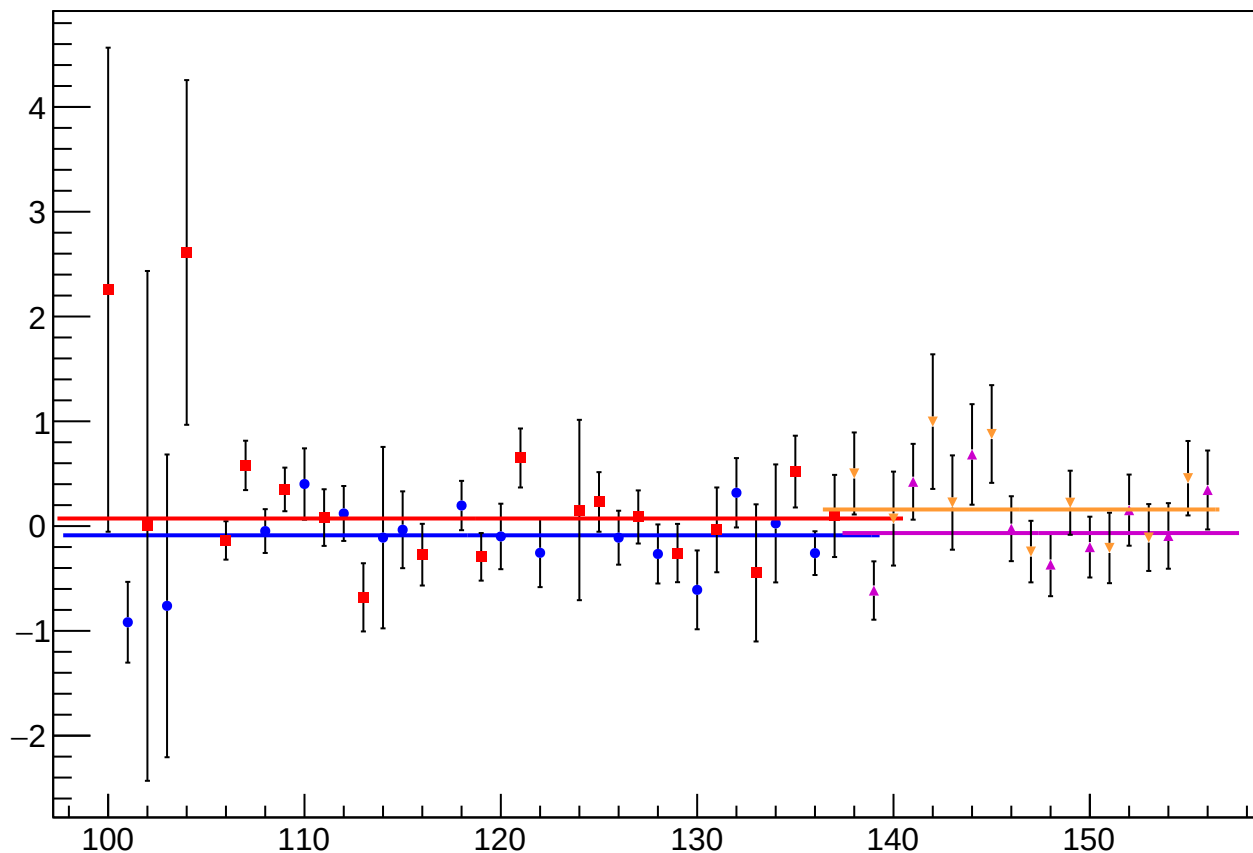
Right: 0.000+/-0.000 χ^2/NDF : 2997940.6/34

In: 0.000+/-0.000 χ^2/NDF : 3103972.9/24

Out: 0.000+/-0.000 χ^2/NDF : 2696779.7/28

All: 0.000+/-0.000 χ^2/NDF : 5800755.4/53

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: 0.159 ± 0.118 $\chi^2/\text{NDF}: 9.4/9$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.067 ± 0.109 $\chi^2/\text{NDF}: 11.0/8$

Left: 0.038 ± 0.080 $\chi^2/\text{NDF}: 22.4/18$

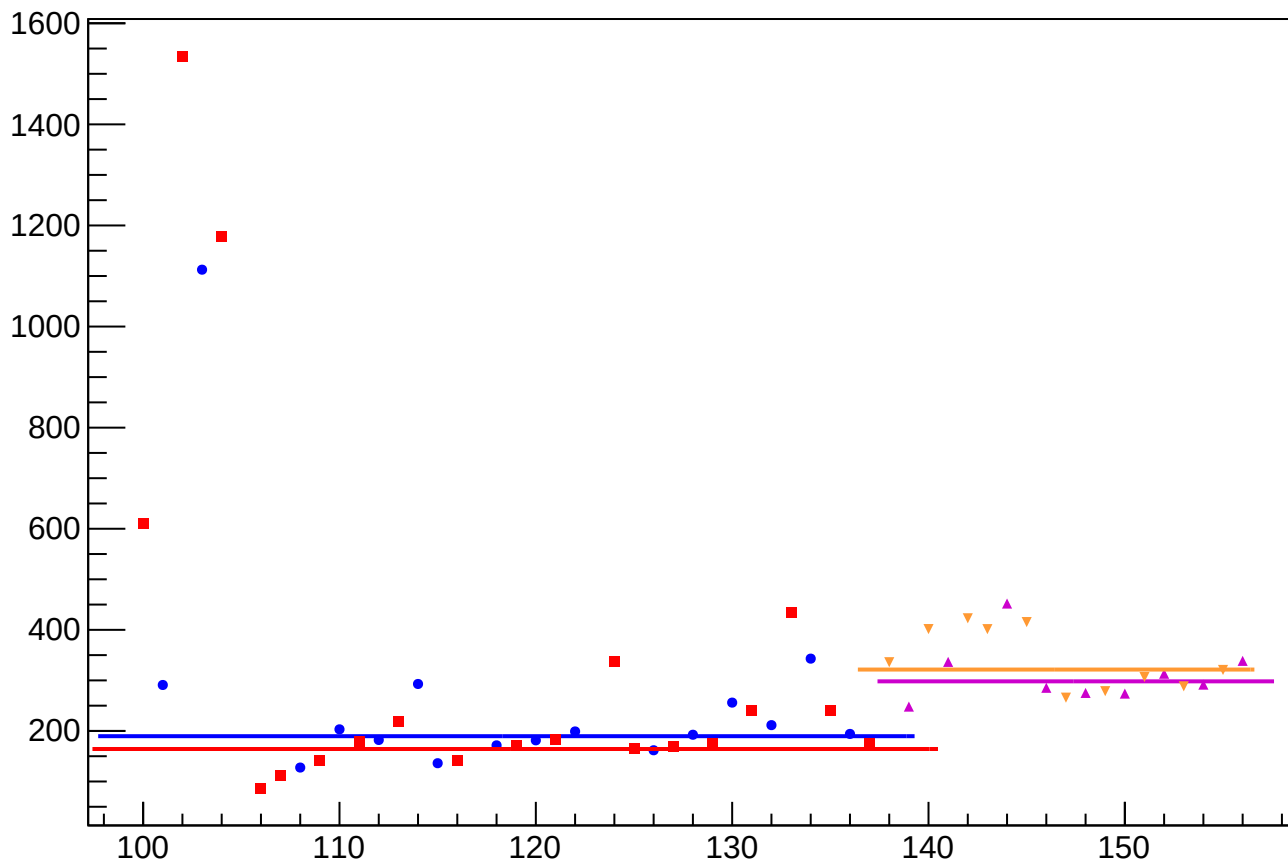
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.081 ± 0.063 $\chi^2/\text{NDF}: 24.9/24$

Out: 0.095 ± 0.060 $\chi^2/\text{NDF}: 38.5/28$

All: 0.011 ± 0.043 $\chi^2/\text{NDF}: 67.5/53$

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: 321.445+/-0.083 χ^2/NDF : 396909.4/9

Right Out: 164.287+/-0.050 χ^2/NDF : 2643490.2/18

Left In: 298.110+/-0.077 χ^2/NDF : 349657.5/8

Left: 308.901+/-0.057 χ^2/NDF : 788913.4/18

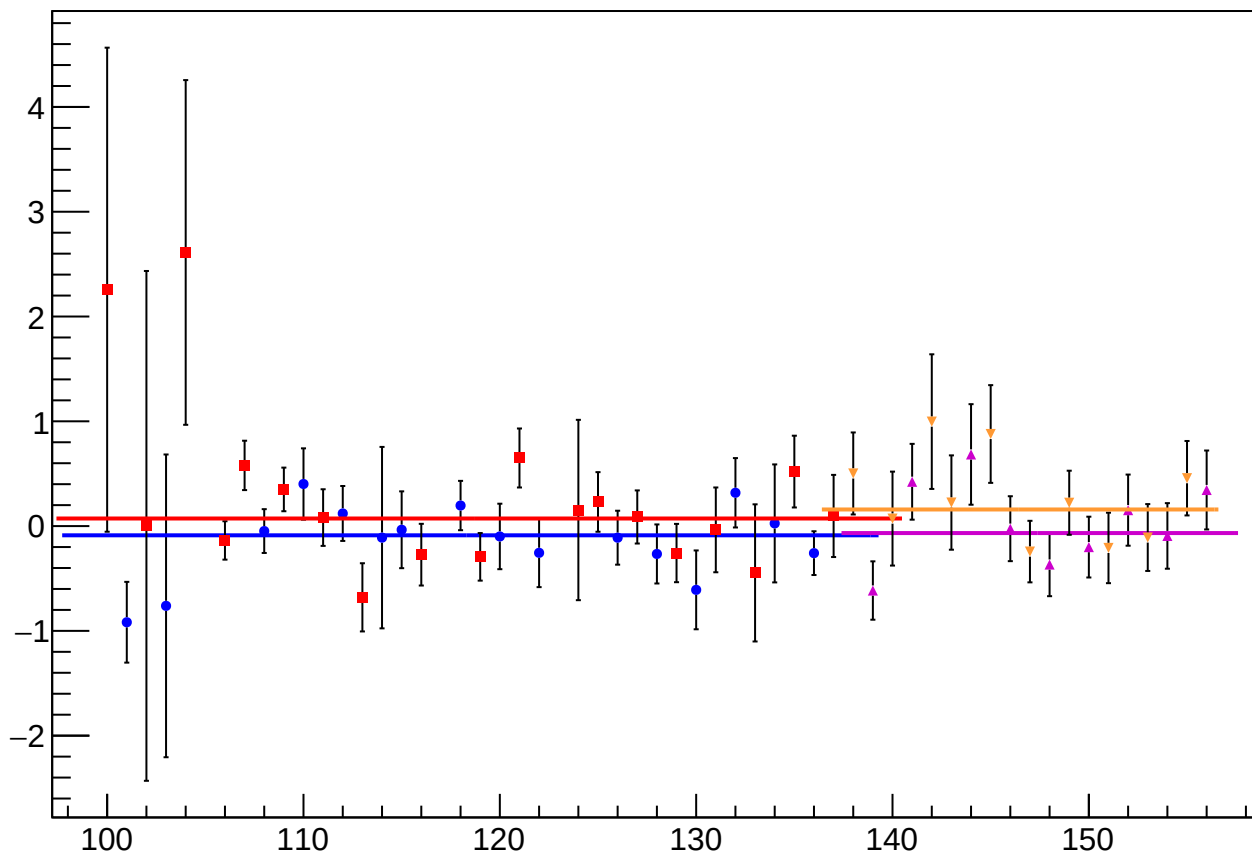
Right: 175.794+/-0.037 χ^2/NDF : 4227942.3/34

In: 225.574+/-0.044 χ^2/NDF : 3138455.8/24

Out: 205.427+/-0.043 χ^2/NDF : 5678318.3/28

All: 215.071+/-0.031 χ^2/NDF : 8924165.9/53

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 χ^2/NDF : 13.9/15

Left Out: 0.159 ± 0.118 χ^2/NDF : 9.4/9

Right Out: 0.072 ± 0.070 χ^2/NDF : 28.7/18

Left In: -0.067 ± 0.109 χ^2/NDF : 11.0/8

Left: 0.038 ± 0.080 χ^2/NDF : 22.4/18

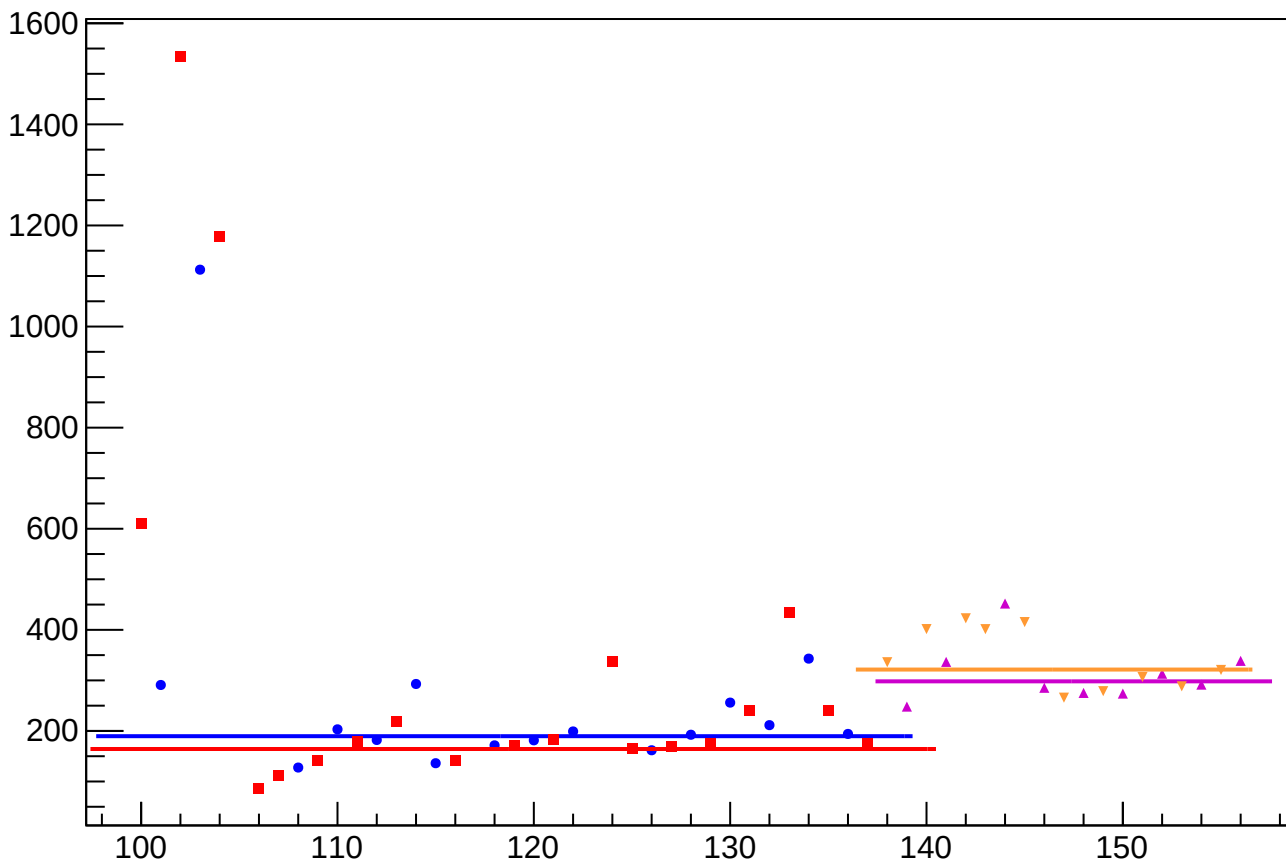
Right: -0.000 ± 0.052 χ^2/NDF : 44.9/34

In: -0.081 ± 0.063 χ^2/NDF : 24.9/24

Out: 0.095 ± 0.060 χ^2/NDF : 38.5/28

All: 0.011 ± 0.043 χ^2/NDF : 67.5/53

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465476.9/15

Left Out: 321.445+/-0.083 χ^2/NDF :396909.4/9

Right Out: 164.287+/-0.050 χ^2/NDF : 2643490.2/18

Left In: 298.110+/-0.077 χ^2/NDF :349657.5/8

Left: 308.901+/-0.057 χ^2/NDF : 788913.4/18

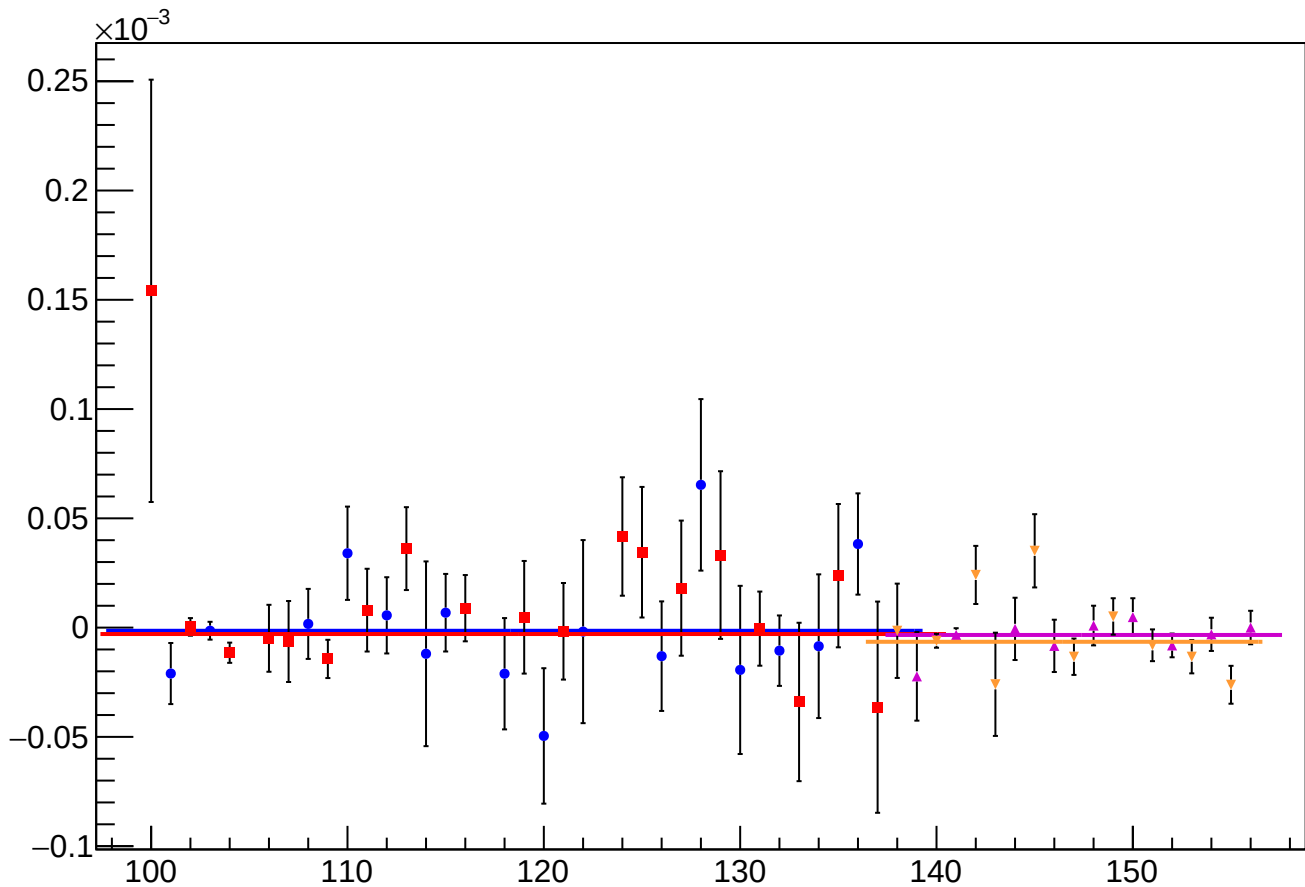
Right: 175.794+/-0.037 χ^2/NDF : 4227942.3/34

In: 225.574+/-0.044 χ^2/NDF :3138455.8/24

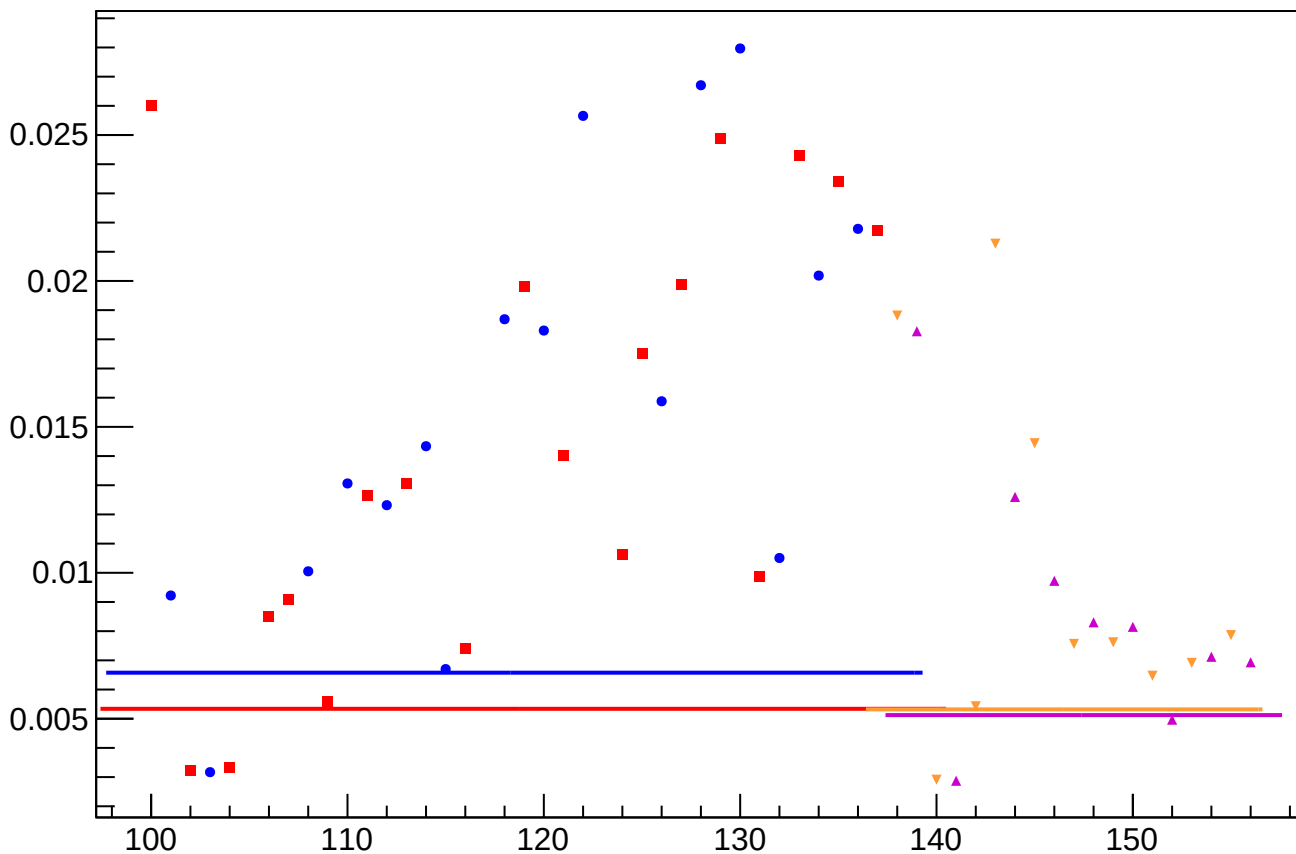
Out: 205.427+/-0.043 χ^2/NDF :5678318.3/28

All: 215.071+/-0.031 χ^2/NDF : 8924165.9/53

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



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: 0.005+/-0.000 χ^2/NDF : 4048123.2/9

Right Out: 0.005+/-0.000 χ^2/NDF : 5685915.4/18

Left In: 0.005+/-0.000 χ^2/NDF : 3512966.9/8

Left: 0.005+/-0.000 χ^2/NDF : 7568810.2/18

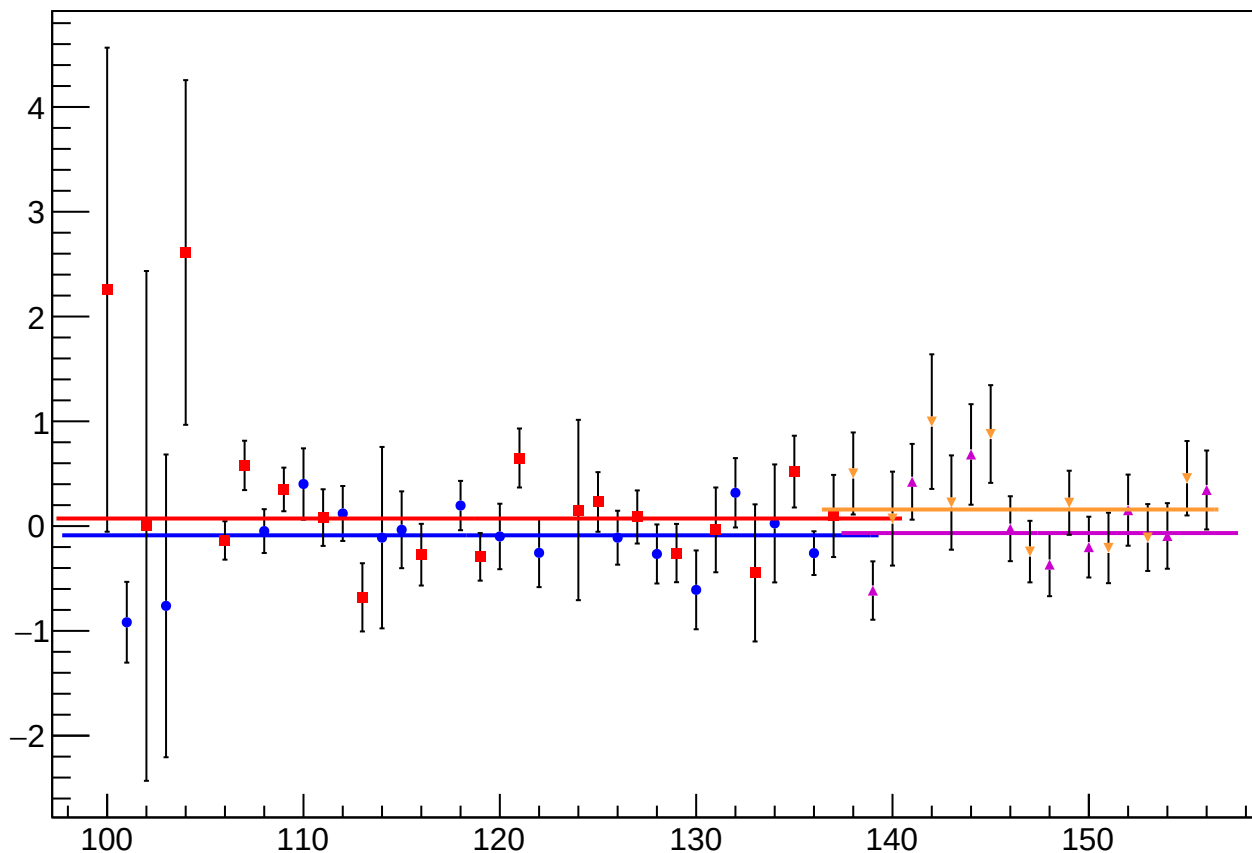
Right: 0.006+/-0.000 χ^2/NDF : 11788382.8/34

In: 0.006+/-0.000 χ^2/NDF : 9711195.8/24

Out: 0.005+/-0.000 χ^2/NDF : 9734107.7/28

All: 0.005+/-0.000 χ^2/NDF : 19462115.0/53

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 χ^2/NDF : 13.9/15

Left Out: 0.159 ± 0.118 χ^2/NDF : 9.4/9

Right Out: 0.072 ± 0.070 χ^2/NDF : 28.7/18

Left In: -0.067 ± 0.109 χ^2/NDF : 11.0/8

Left: 0.038 ± 0.080 χ^2/NDF : 22.4/18

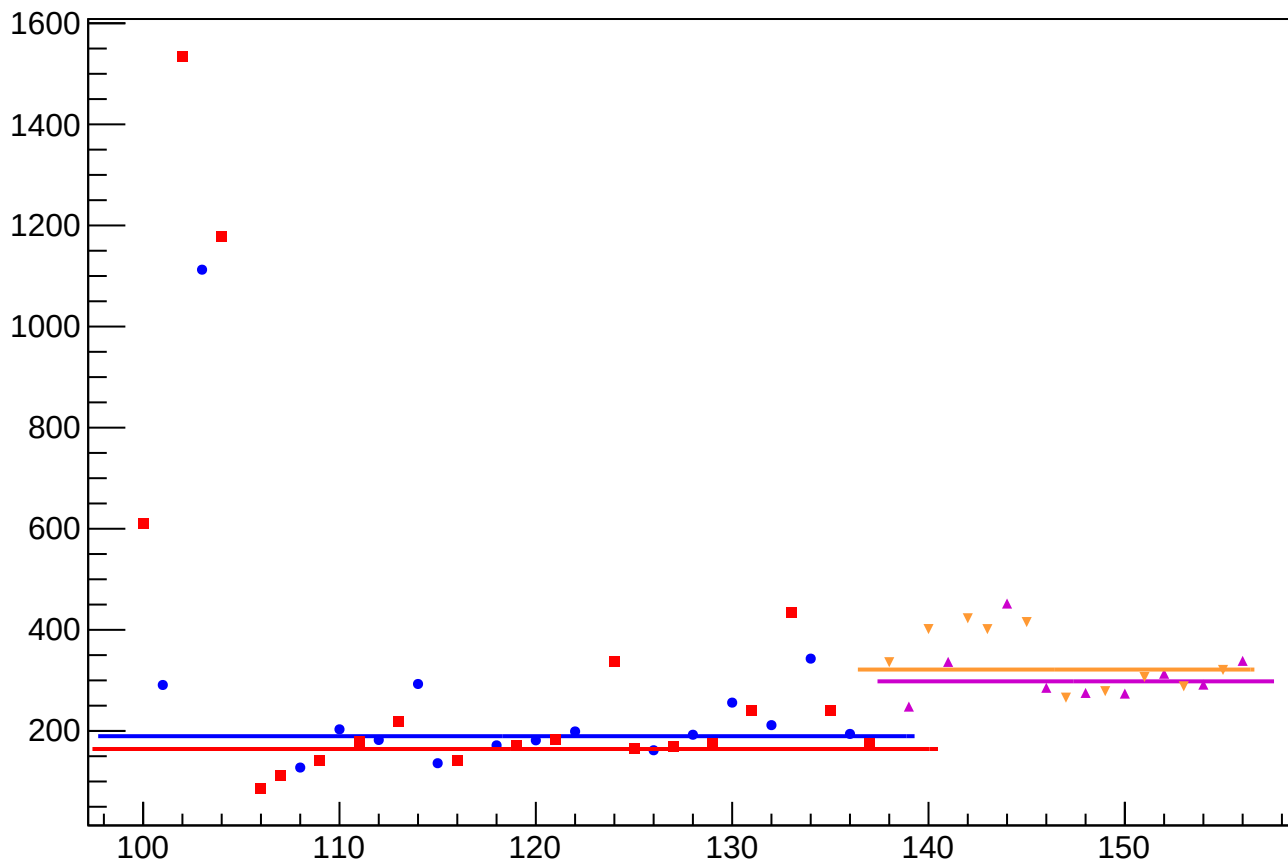
Right: -0.000 ± 0.052 χ^2/NDF : 44.9/34

In: -0.081 ± 0.063 χ^2/NDF : 24.9/24

Out: 0.095 ± 0.060 χ^2/NDF : 38.5/28

All: 0.011 ± 0.043 χ^2/NDF : 67.5/53

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465464.1/15

Left Out: 321.449+/-0.083 χ^2/NDF : 396900.6/9

Right Out: 164.286+/-0.050 χ^2/NDF : 2643465.6/18

Left In: 298.114+/-0.077 χ^2/NDF : 349637.6/8

Left: 308.905+/-0.057 χ^2/NDF : 788884.4/18

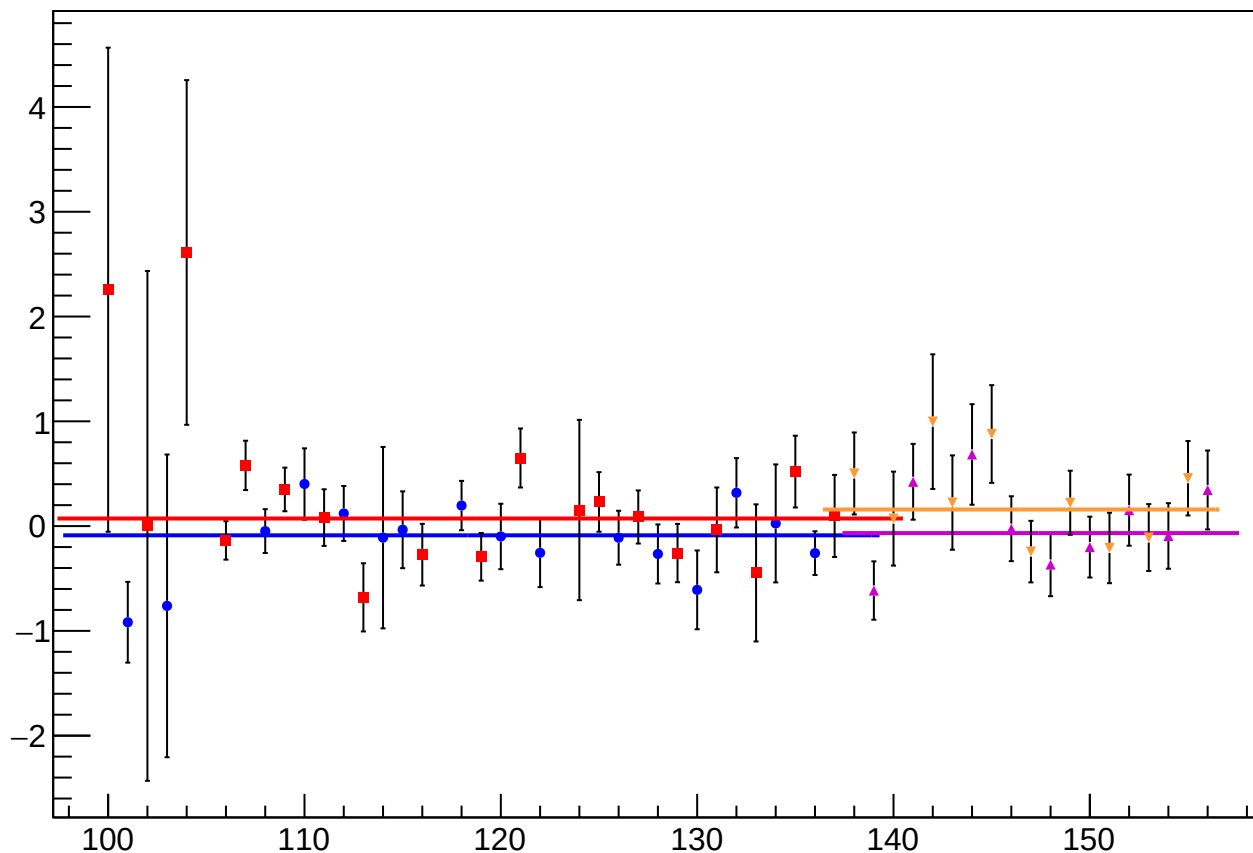
Right: 175.793+/-0.037 χ^2/NDF : 4227906.3/34

In: 225.574+/-0.044 χ^2/NDF : 3138510.2/24

Out: 205.426+/-0.043 χ^2/NDF : 5678398.2/28

All: 215.071+/-0.031 χ^2/NDF : 8924306.0/53

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: 0.159 ± 0.118 $\chi^2/\text{NDF}: 9.4/9$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.067 ± 0.109 $\chi^2/\text{NDF}: 11.0/8$

Left: 0.038 ± 0.080 $\chi^2/\text{NDF}: 22.4/18$

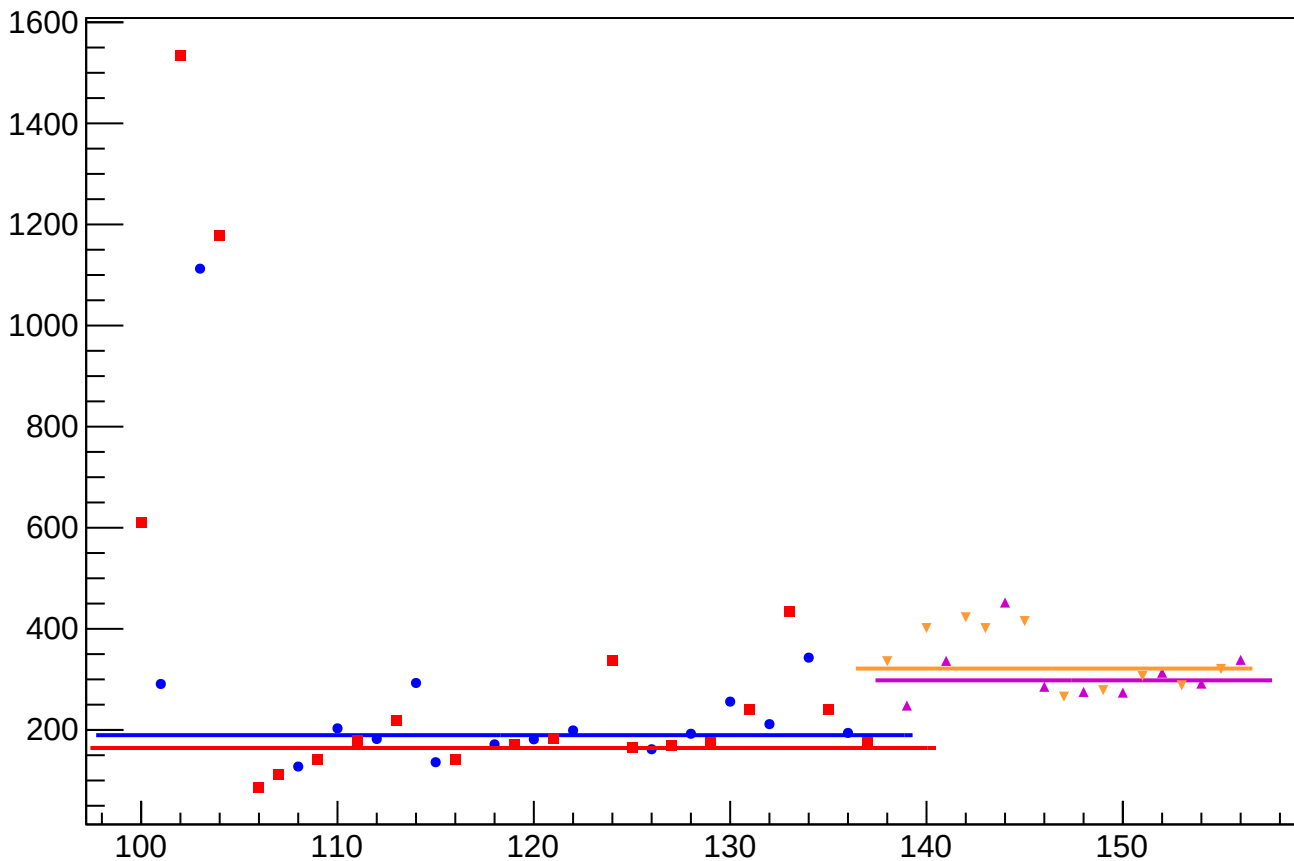
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.081 ± 0.063 $\chi^2/\text{NDF}: 24.9/24$

Out: 0.095 ± 0.060 $\chi^2/\text{NDF}: 38.5/28$

All: 0.011 ± 0.043 $\chi^2/\text{NDF}: 67.5/53$

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628 ± 0.054 χ^2/NDF : 1465464.1/15

Left Out: 321.449 ± 0.083 χ^2/NDF : 396900.6/9

Right Out: 164.286 ± 0.050 χ^2/NDF : 2643465.6/18

Left In: 298.114 ± 0.077 χ^2/NDF : 349637.6/8

Left: 308.905 ± 0.057 χ^2/NDF : 788884.4/18

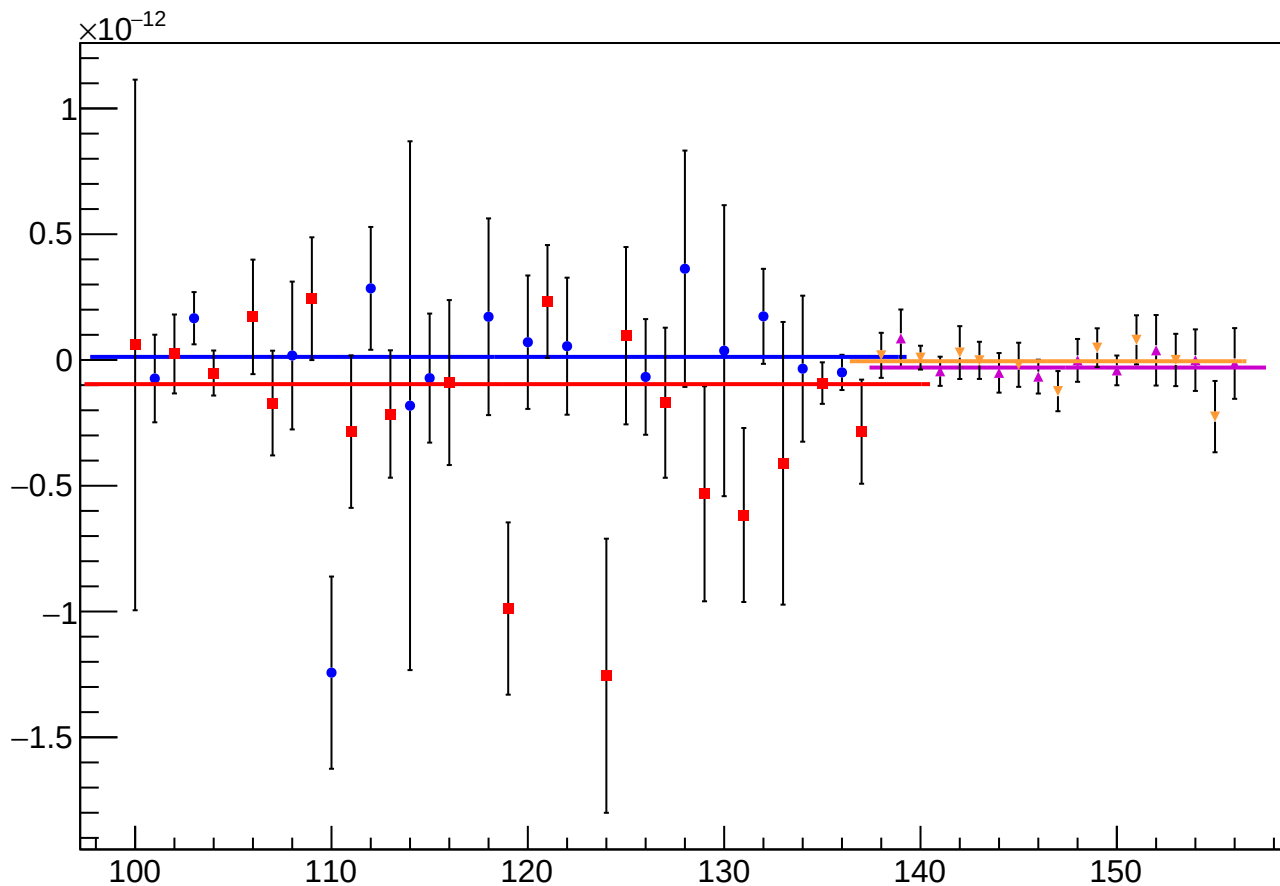
Right: 175.793 ± 0.037 χ^2/NDF : 4227906.3/34

In: 225.574 ± 0.044 χ^2/NDF : 3138510.2/24

Out: 205.426 ± 0.043 χ^2/NDF : 5678398.2/28

All: 215.071 ± 0.031 χ^2/NDF : 8924306.0/53

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 : 6.2/9

Right Out: -0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.9/8

Left: -0.000+/-0.000 χ^2/NDF : 8.5/18

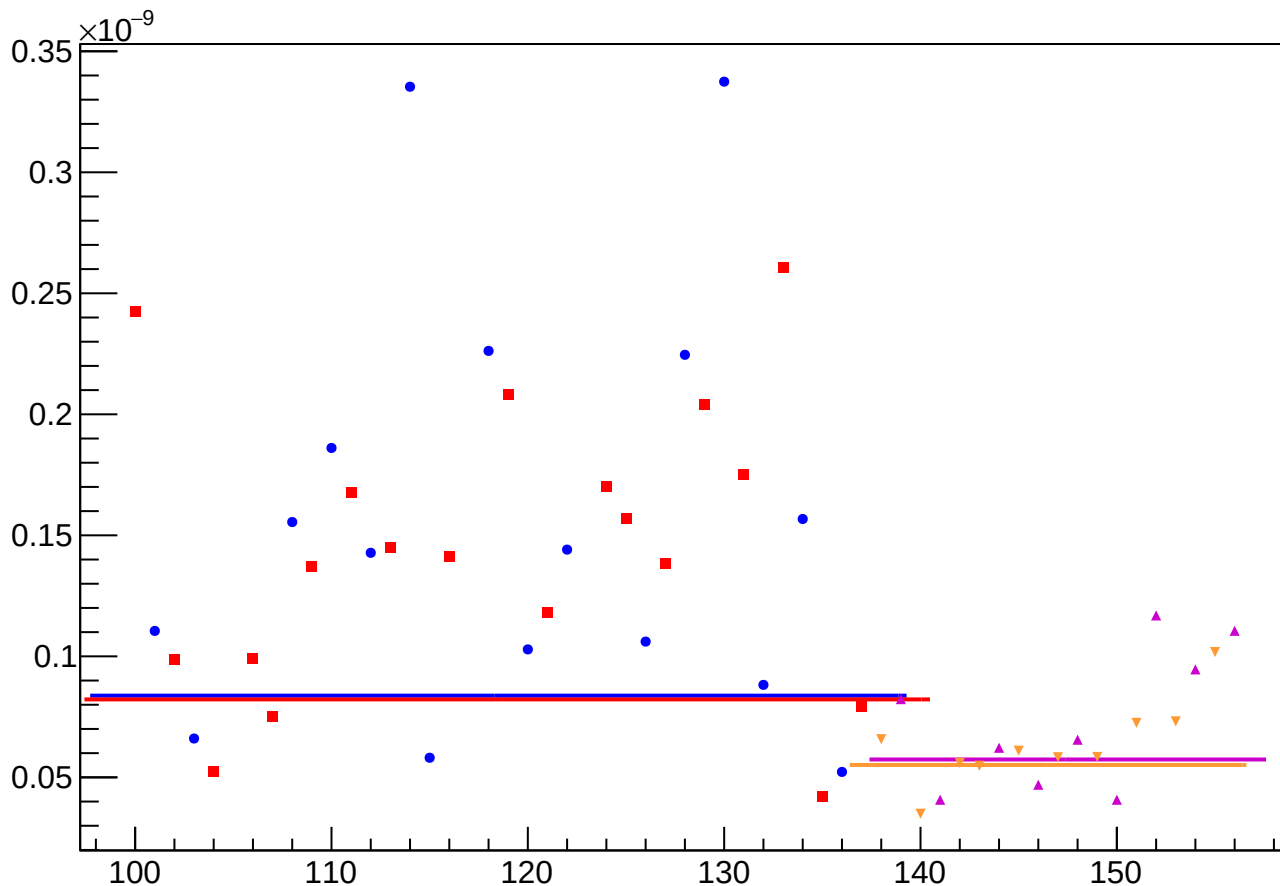
Right: -0.000+/-0.000 χ^2/NDF : 43.1/34

In: -0.000+/-0.000 χ^2/NDF : 19.6/24

Out: -0.000+/-0.000 χ^2/NDF : 32.5/28

All: -0.000+/-0.000 χ^2/NDF : 52.2/53

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 : 745830.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2271900.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1322940.9/8

Left: 0.000+/-0.000 χ^2/NDF : 2076139.6/18

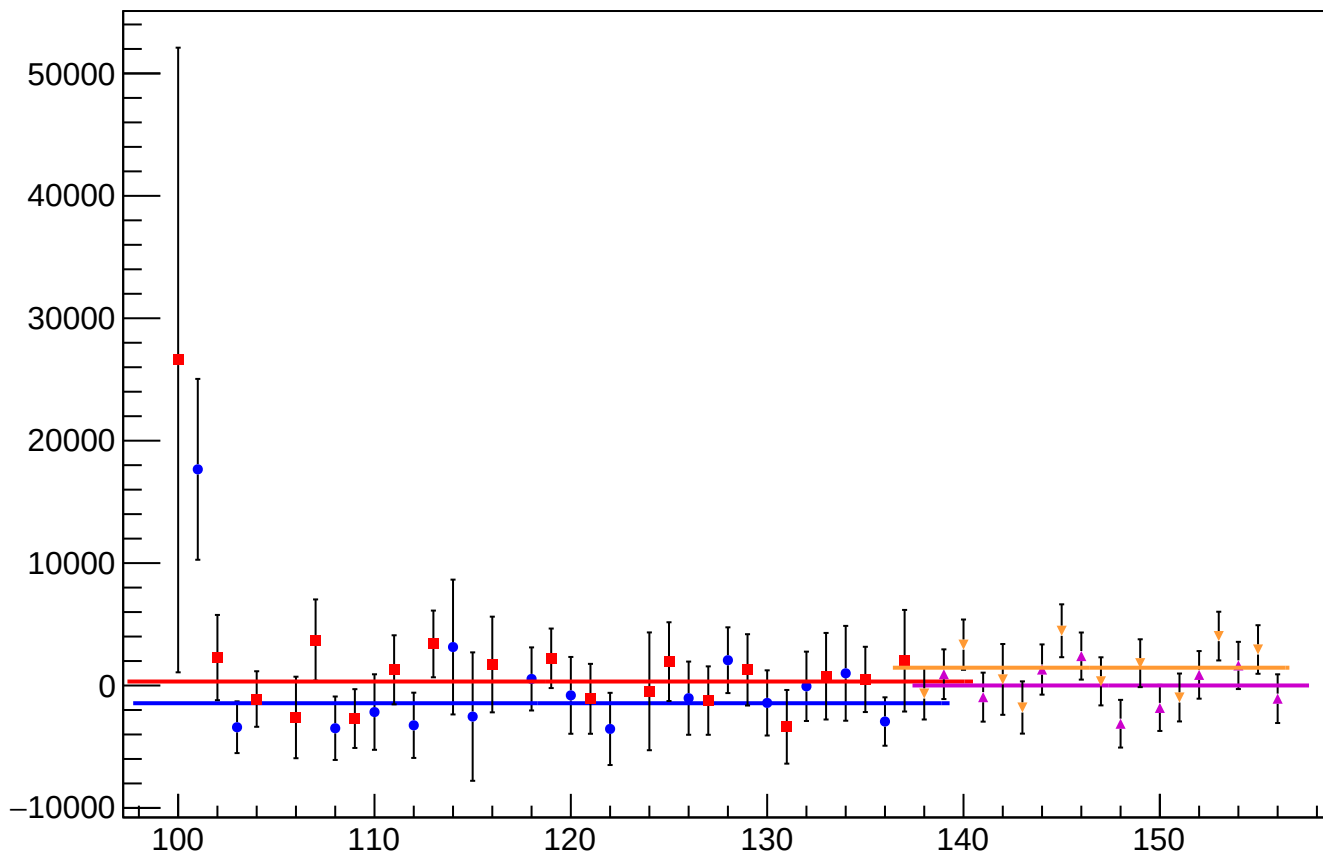
Right: 0.000+/-0.000 χ^2/NDF : 4382137.4/34

In: 0.000+/-0.000 χ^2/NDF : 3925324.5/24

Out: 0.000+/-0.000 χ^2/NDF : 3571508.9/28

All: 0.000+/-0.000 χ^2/NDF : 7509823.0/53

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.547 $\pm$ 723.140 χ^2/NDF : 13.5/15

Left Out: 1454.386 $\pm$ 659.189 χ^2/NDF :10.4/9

Right Out: 325.908 $\pm$ 702.648 χ^2/NDF : 9.9/18

Left In: 3.398 $\pm$ 654.884 χ^2/NDF :7.1/8

Left: 724.138 $\pm$ 464.587 χ^2/NDF : 19.9/18

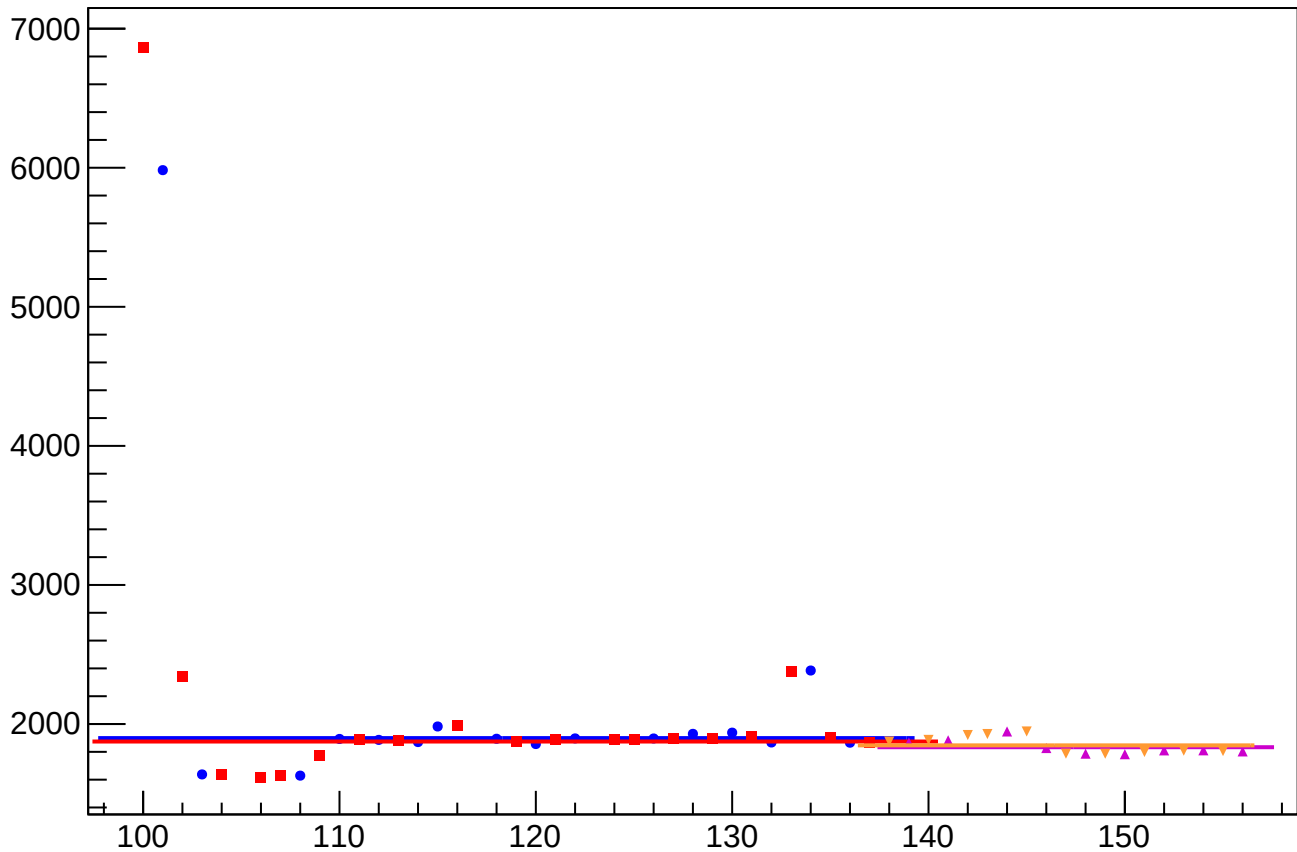
Right: -534.850 $\pm$ 503.936 χ^2/NDF : 26.5/34

In: -649.931 $\pm$ 485.415 χ^2/NDF :22.8/24

Out: 926.122 $\pm$ 480.747 χ^2/NDF :21.7/28

All: 145.709 $\pm$ 341.578 χ^2/NDF : 49.8/53

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.2/15

Left Out: 1846.606+/-0.466 χ^2/NDF : 16081.3/9

Right Out: 1874.251+/-0.495 χ^2/NDF : 207657.7/18

Left In: 1833.309+/-0.463 χ^2/NDF : 11485.9/8

Left: 1839.914+/-0.329 χ^2/NDF : 27976.7/18

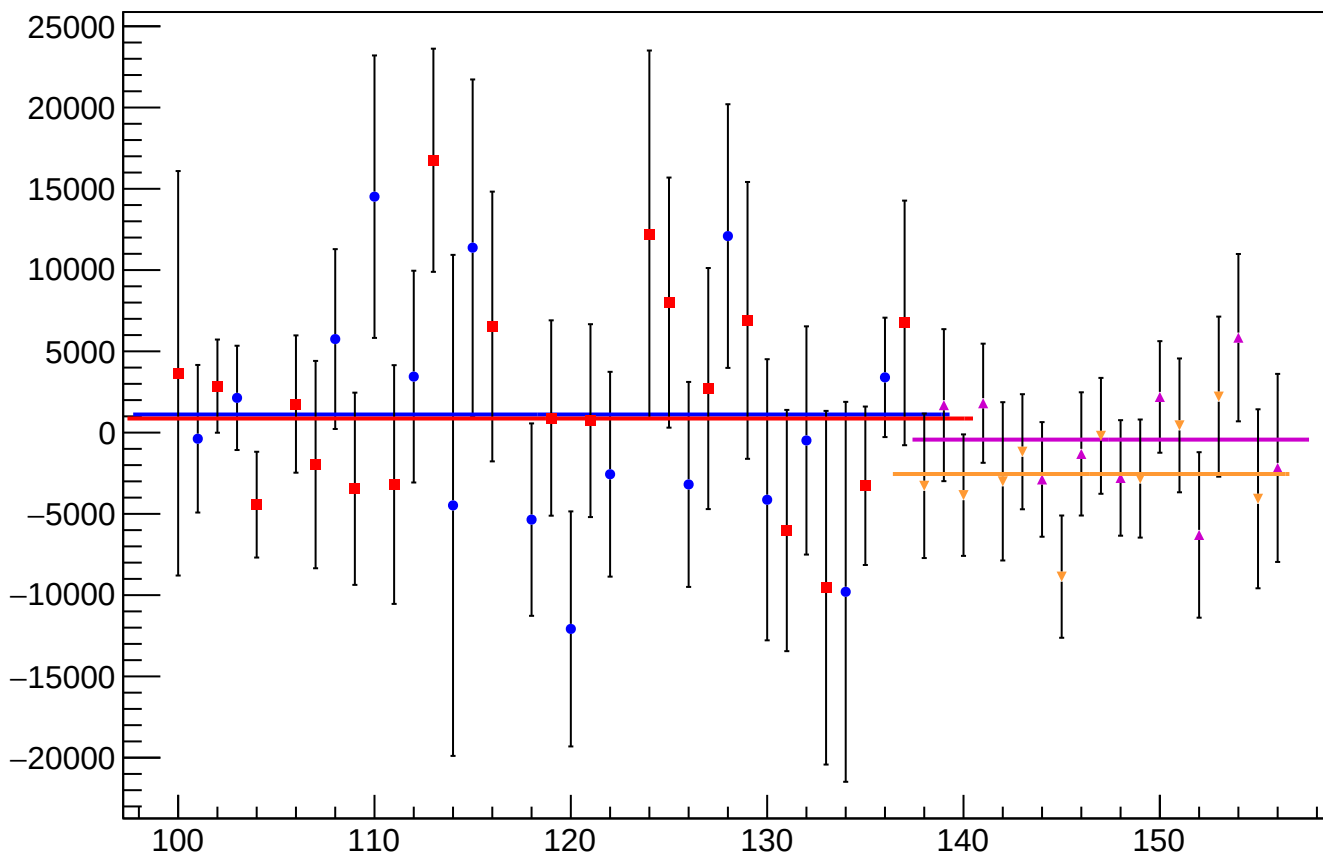
Right: 1886.144+/-0.356 χ^2/NDF : 906364.0/34

In: 1862.830+/-0.343 χ^2/NDF : 718019.7/24

Out: 1859.594+/-0.339 χ^2/NDF : 225391.6/28

All: 1861.194+/-0.241 χ^2/NDF : 943456.3/53

asym_atr_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1112.704+/-1479.265 χ^2/NDF : 13.4/15

Left Out: -2546.948+/-1288.305 χ^2/NDF : 5.1/9

Right Out: 866.976+/-1307.223 χ^2/NDF : 15.6/18

Left In: -431.293+/-1360.280 χ^2/NDF : 5.0/8

Left: -1546.571+/-935.380 χ^2/NDF : 11.4/18

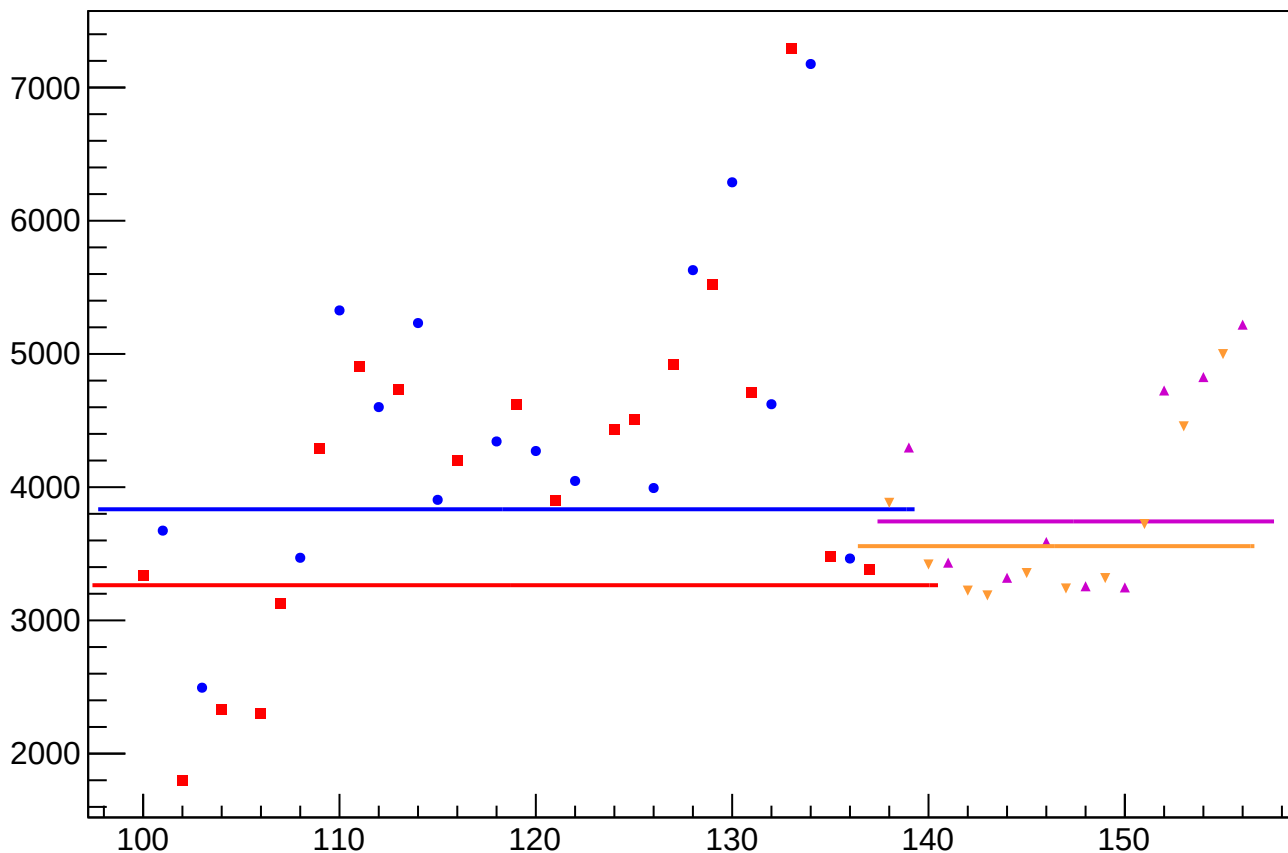
Right: 974.726+/-979.552 χ^2/NDF : 29.0/34

In: 276.121+/-1001.289 χ^2/NDF : 19.0/24

Out: -864.868+/-917.585 χ^2/NDF : 24.2/28

All: -344.051+/-676.490 χ^2/NDF : 43.9/53

asym_atr_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3834.164+/-1.046 χ^2/NDF : 956775.6/15

Left Out: 3557.335+/-0.911 χ^2/NDF : 282029.0/9

Right Out: 3264.110+/-0.924 χ^2/NDF : 1864241.4/18

Left In: 3742.901+/-0.962 χ^2/NDF : 447187.0/8

Left: 3645.079+/-0.661 χ^2/NDF : 748836.4/18

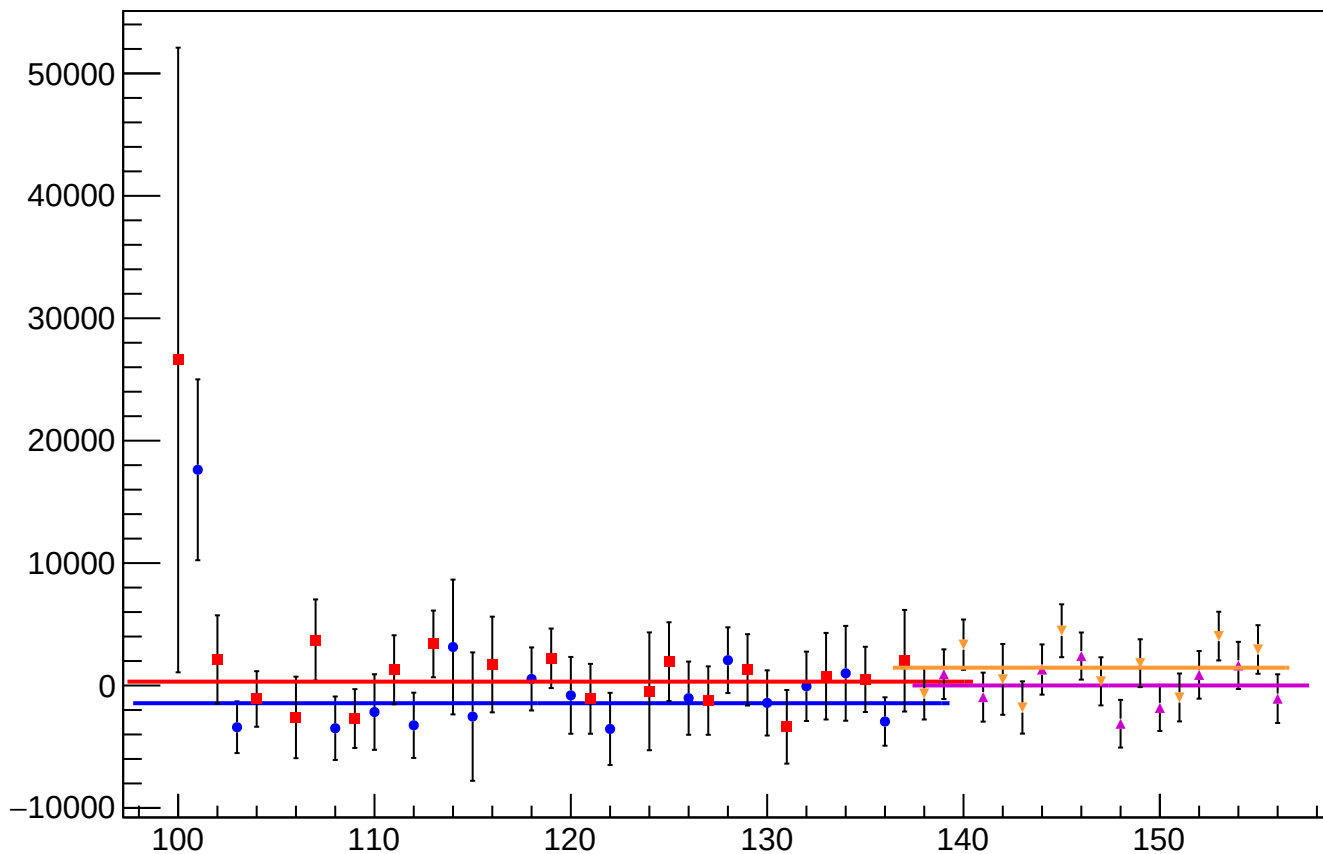
Right: 3514.075+/-0.693 χ^2/NDF : 2987789.5/34

In: 3784.715+/-0.708 χ^2/NDF : 1408087.2/24

Out: 3412.860+/-0.649 χ^2/NDF : 2197319.2/28

All: 3582.597+/-0.478 χ^2/NDF : 3755336.7/53

cor_asym_atr_dd_mean vs Slug, Sign Corrected



Left: 724.178 ± 464.587 $\chi^2/\text{NDF}: 19.9/18$

Right: -541.597 ± 504.285 $\chi^2/\text{NDF}: 26.4/34$

In: -650.089 ± 485.415 $\chi^2/\text{NDF}: 22.8/24$

Out: 922.024 ± 481.050 $\chi^2/\text{NDF}: 21.6/28$

All: 143.067 ± 341.686 $\chi^2/\text{NDF}: 49.7/53$

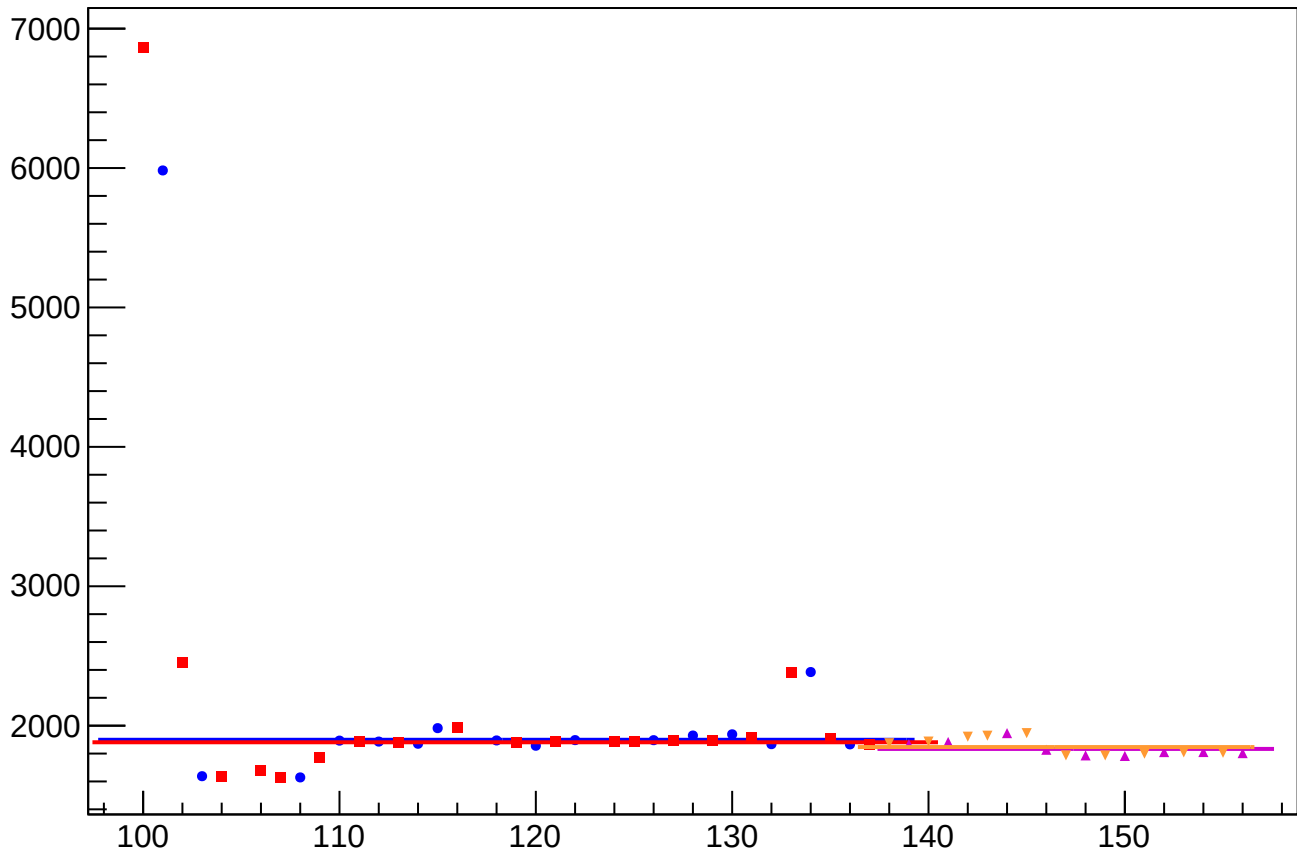
Right In: -1446.933 ± 723.140 $\chi^2/\text{NDF}: 13.5/15$

Left Out: 1454.436 ± 659.189 $\chi^2/\text{NDF}: 10.4/9$

Right Out: 315.462 ± 703.596 $\chi^2/\text{NDF}: 9.9/18$

Left In: 3.428 ± 654.884 $\chi^2/\text{NDF}: 7.1/8$

cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.4/15

Left Out: 1846.606+/-0.466 χ^2/NDF : 16081.3/9

Right Out: 1881.007+/-0.497 χ^2/NDF : 216564.4/18

Left In: 1833.309+/-0.463 χ^2/NDF : 11485.9/8

Left: 1839.914+/-0.329 χ^2/NDF : 27976.7/18

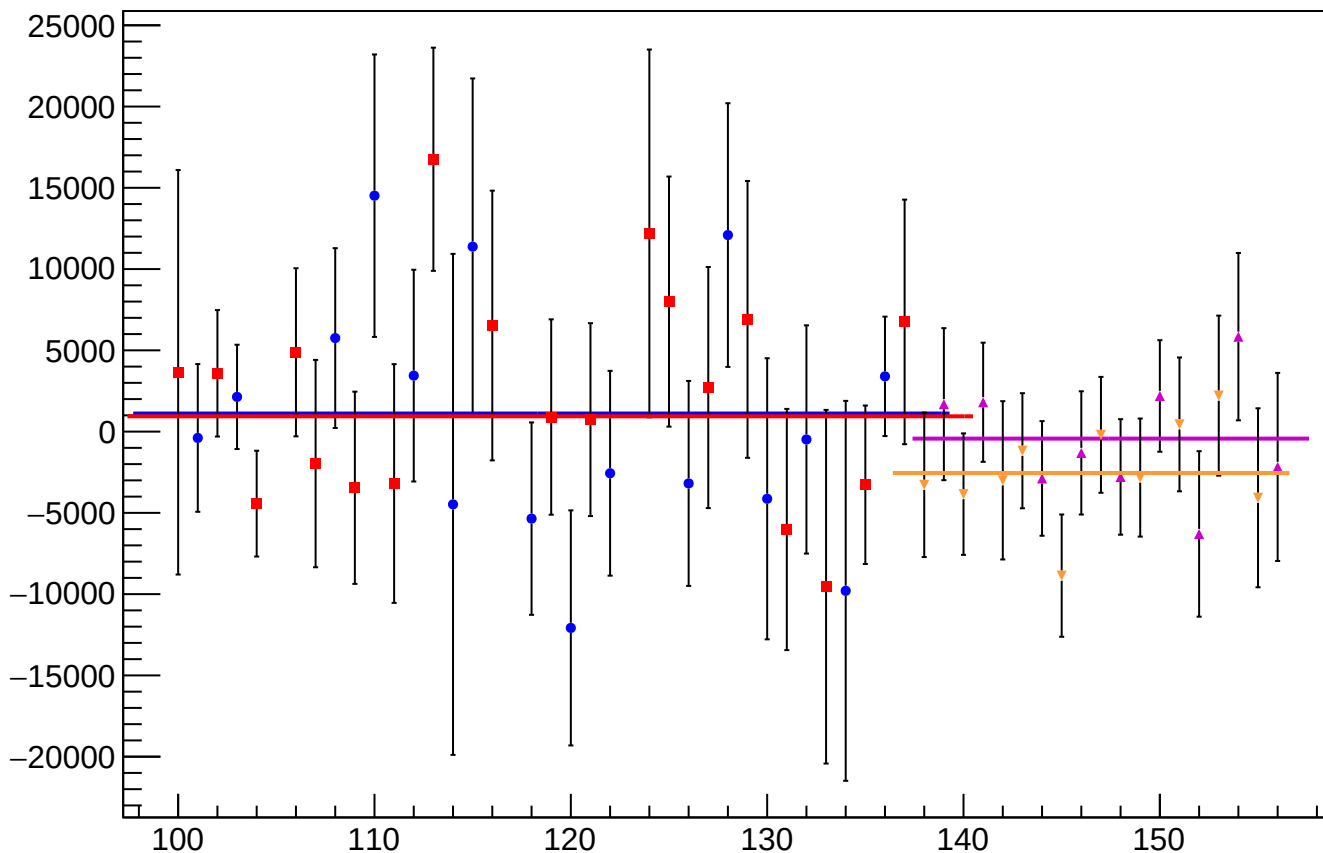
Right: 1889.658+/-0.356 χ^2/NDF : 914703.5/34

In: 1862.830+/-0.343 χ^2/NDF : 718019.8/24

Out: 1862.713+/-0.340 χ^2/NDF : 235196.0/28

All: 1862.771+/-0.242 χ^2/NDF : 953215.8/53

asym_atr_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1111.533+/-1479.438 χ^2/NDF : 13.4/15

Left Out: -2546.911+/-1288.305 χ^2/NDF : 5.1/9

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: -431.421+/-1360.278 χ^2/NDF : 5.0/8

Left: -1546.610+/-935.379 χ^2/NDF : 11.4/18

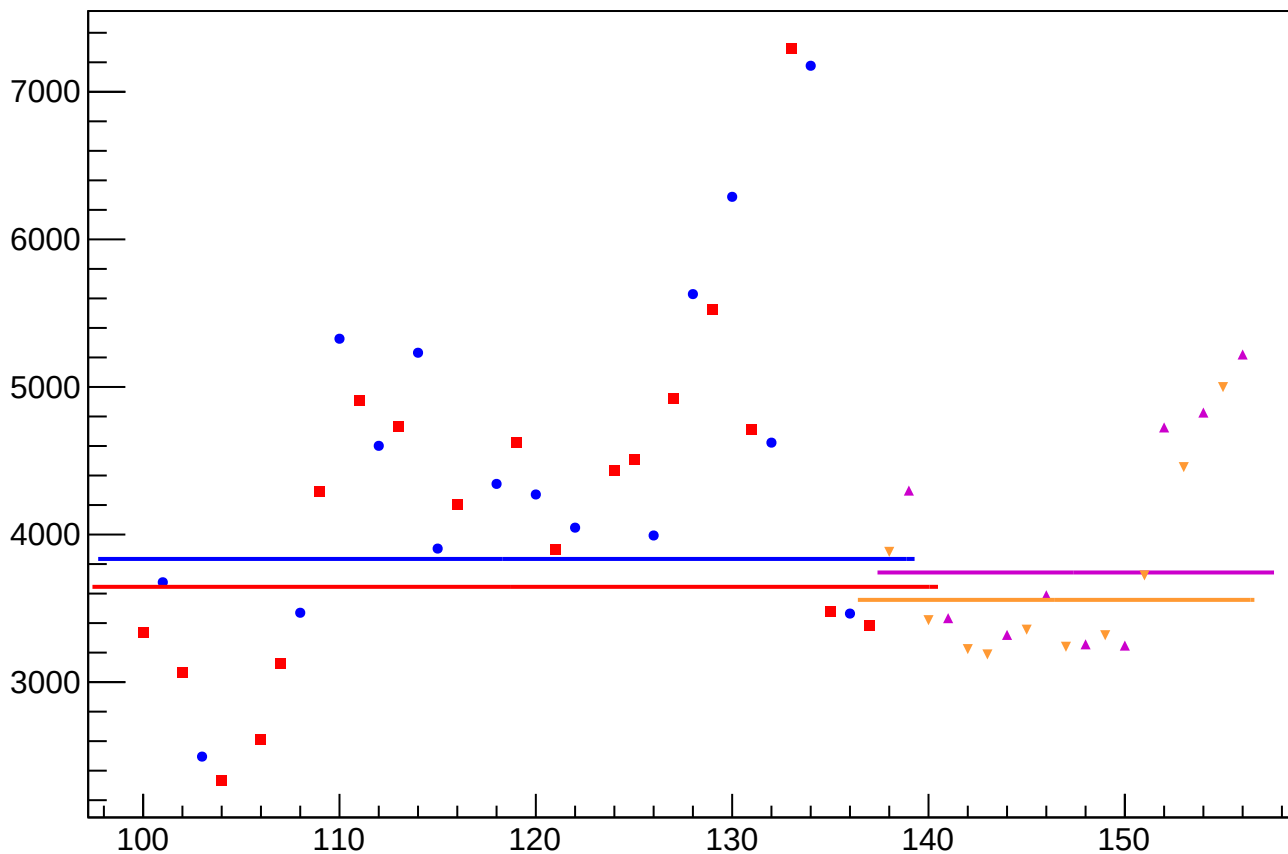
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: 275.425+/-1001.342 χ^2/NDF : 19.0/24

Out: -946.508+/-947.688 χ^2/NDF : 24.6/28

All: -369.155+/-688.303 χ^2/NDF : 44.4/53

asym_atr_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3834.690+/-1.046 χ^2/NDF : 956312.2/15

Left Out: 3557.334+/-0.911 χ^2/NDF : 282037.4/9

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3742.892+/-0.962 χ^2/NDF : 447196.6/8

Left: 3645.075+/-0.661 χ^2/NDF : 748852.7/18

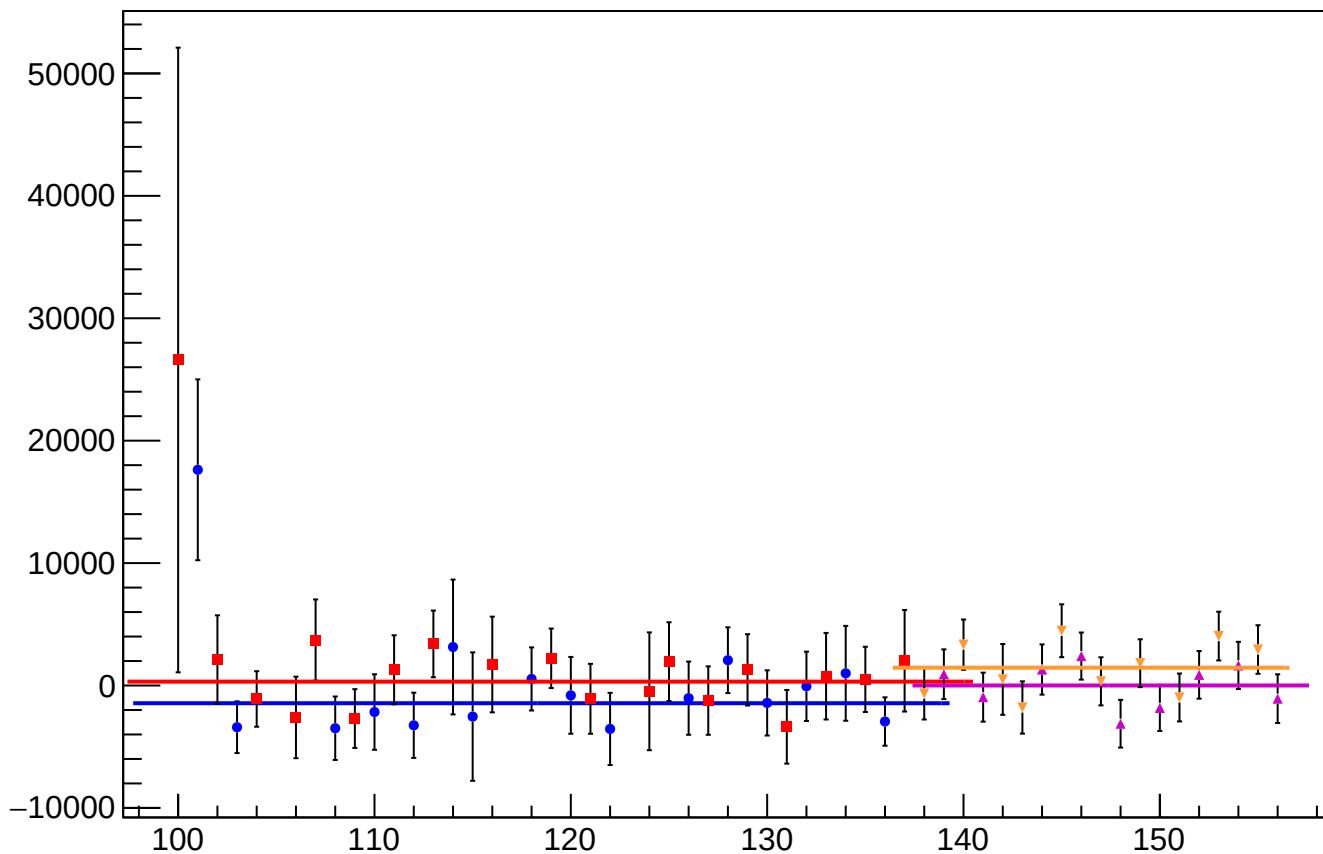
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3784.946+/-0.708 χ^2/NDF : 1407681.4/24

Out: 3597.879+/-0.670 χ^2/NDF : 1411335.5/28

All: 3686.266+/-0.487 χ^2/NDF : 2855837.3/53

eigen_cor_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.933 $\pm$ 723.140 χ^2 /NDF: 13.5/15

Left Out: 1454.436 $\pm$ 659.189 χ^2 /NDF:10.4/9

Right Out: 315.462 $\pm$ 703.596 χ^2 /NDF: 9.9/18

Left In: 3.428 $\pm$ 654.884 χ^2 /NDF:7.1/8

Left: 724.178 $\pm$ 464.587 χ^2 /NDF: 19.9/18

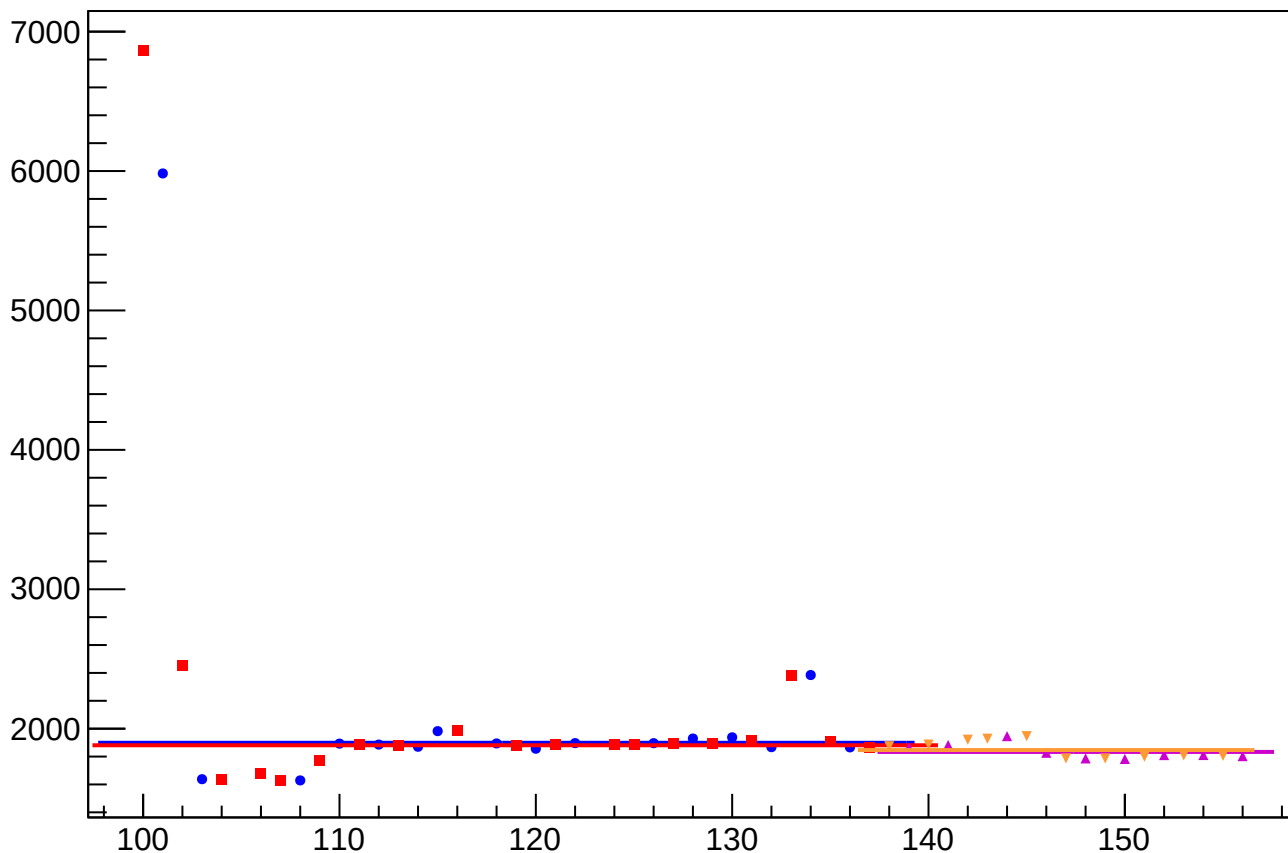
Right: -541.597 $\pm$ 504.285 χ^2 /NDF: 26.4/34

In: -650.089 $\pm$ 485.415 χ^2 /NDF:22.8/24

Out: 922.024 $\pm$ 481.050 χ^2 /NDF:21.6/28

All: 143.067 $\pm$ 341.686 χ^2 /NDF: 49.7/53

eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.4/15

Left Out: 1846.606+/-0.466 χ^2/NDF : 16081.3/9

Right Out: 1881.007+/-0.497 χ^2/NDF : 216564.4/18

Left In: 1833.309+/-0.463 χ^2/NDF : 11485.9/8

Left: 1839.914+/-0.329 χ^2/NDF : 27976.7/18

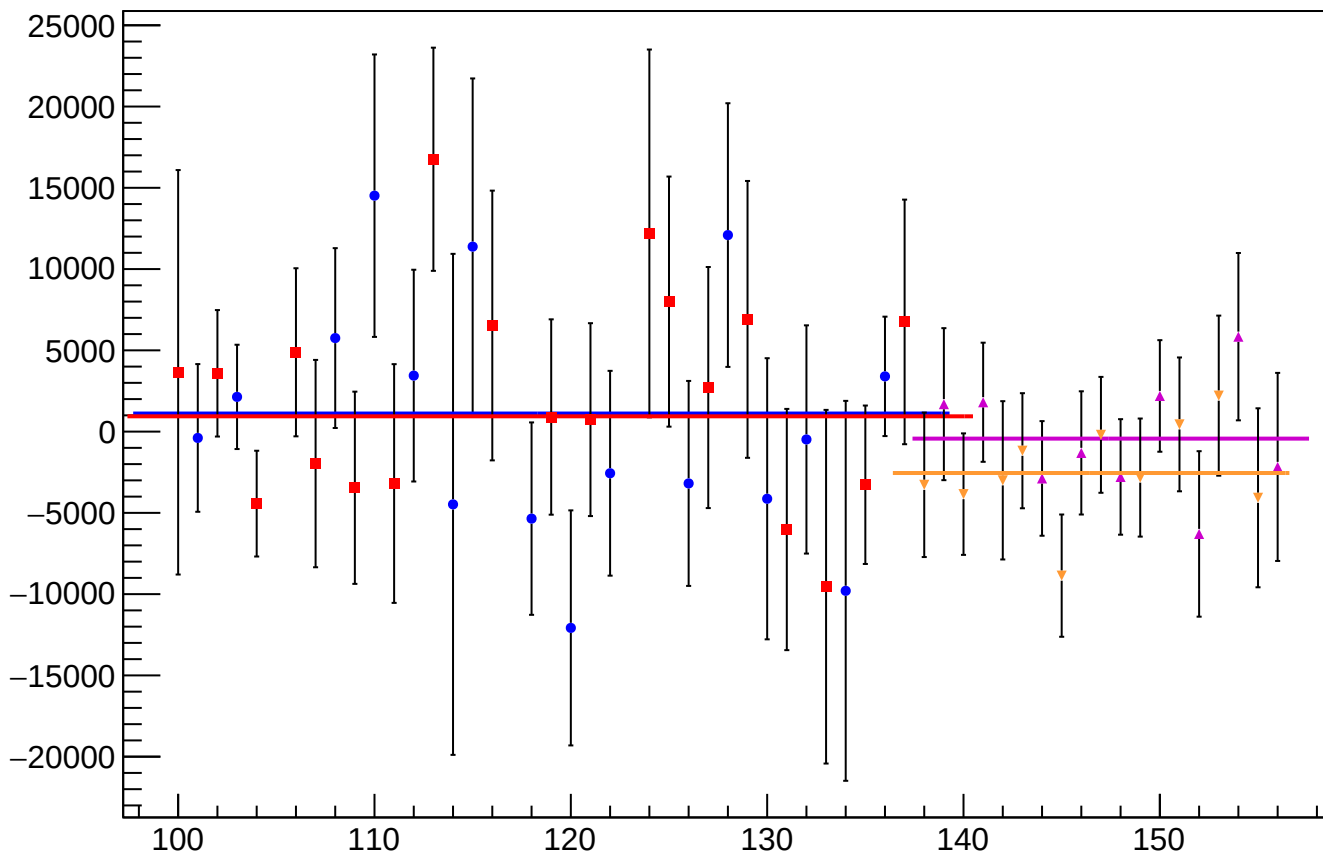
Right: 1889.658+/-0.356 χ^2/NDF : 914703.5/34

In: 1862.830+/-0.343 χ^2/NDF : 718019.8/24

Out: 1862.713+/-0.340 χ^2/NDF : 235196.0/28

All: 1862.771+/-0.242 χ^2/NDF : 953215.8/53

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: -2546.911+/-1288.305 χ^2/NDF : 5.1/9

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: -431.421+/-1360.278 χ^2/NDF : 5.0/8

Left: -1546.610+/-935.379 χ^2/NDF : 11.4/18

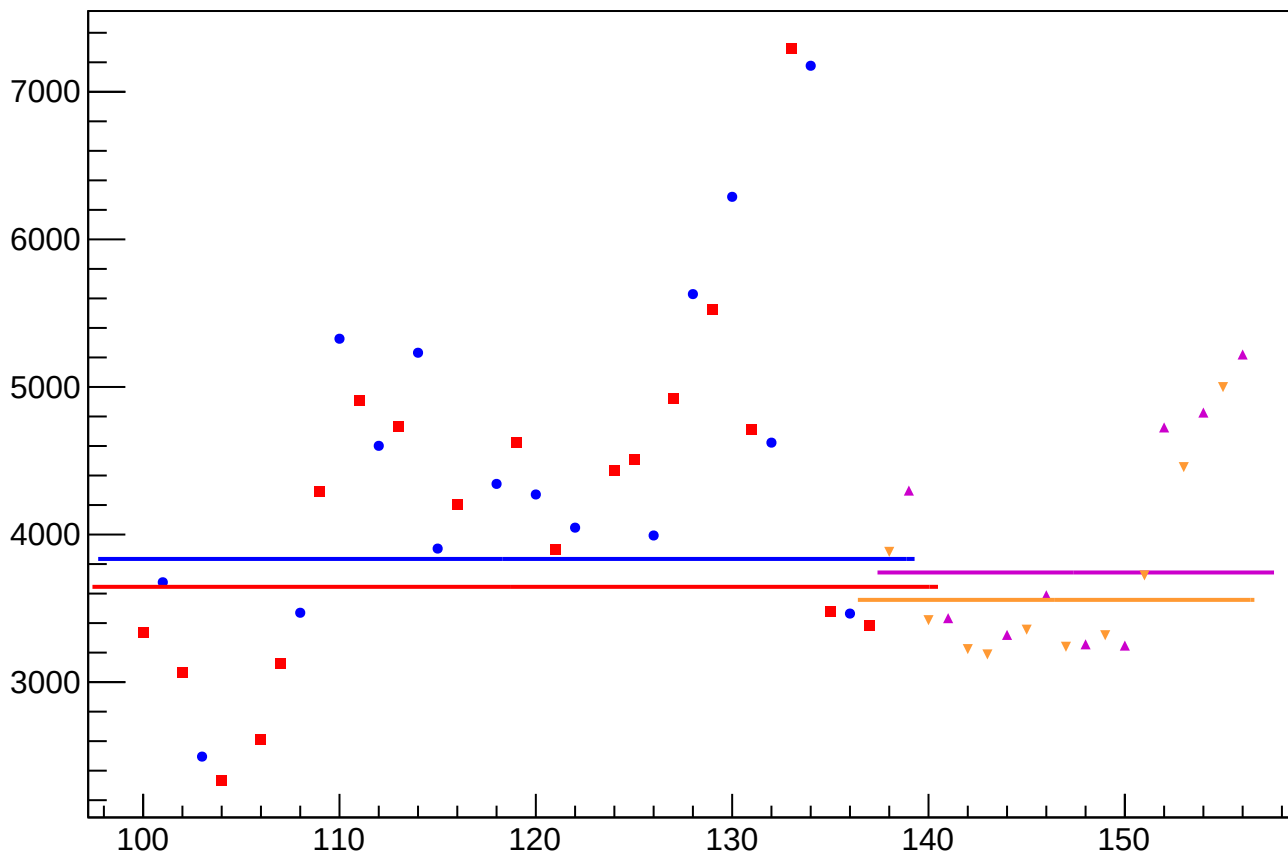
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: 275.425+/-1001.342 χ^2/NDF : 19.0/24

Out: -946.508+/-947.688 χ^2/NDF : 24.6/28

All: -369.155+/-688.303 χ^2/NDF : 44.4/53

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: 3557.334+/-0.911 χ^2/NDF : 282037.4/9

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3742.892+/-0.962 χ^2/NDF : 447196.6/8

Left: 3645.075+/-0.661 χ^2/NDF : 748852.7/18

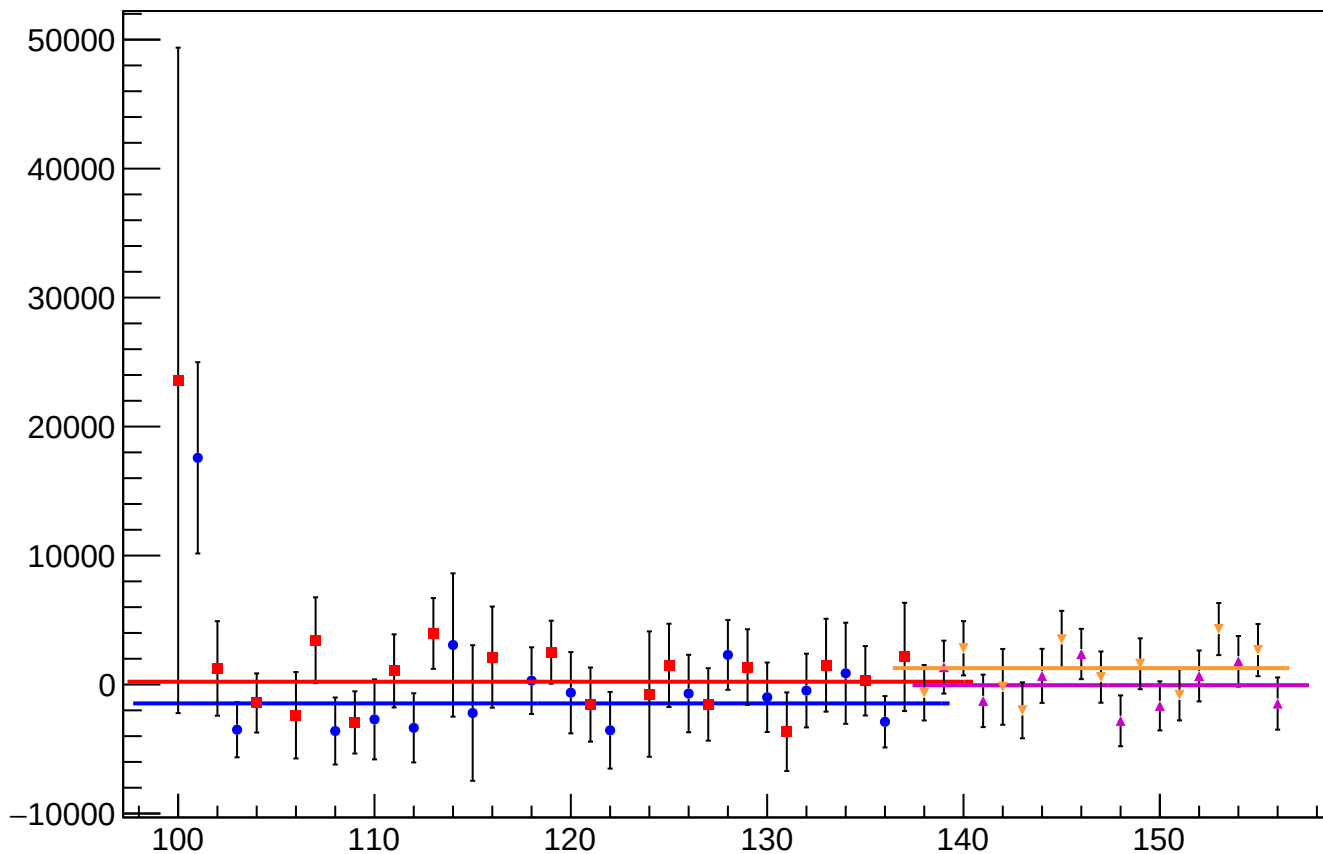
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3784.946+/-0.708 χ^2/NDF : 1407681.4/24

Out: 3597.879+/-0.670 χ^2/NDF : 1411335.5/28

All: 3686.266+/-0.487 χ^2/NDF : 2855837.3/53

dit_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1462.640 ± 728.274 $\chi^2/\text{NDF}: 13.6/15$

Left Out: 1272.827 ± 669.566 $\chi^2/\text{NDF}: 8.8/9$

Right Out: 219.726 ± 708.852 $\chi^2/\text{NDF}: 10.8/18$

Left In: -49.100 ± 664.684 $\chi^2/\text{NDF}: 6.7/8$

Left: 607.027 ± 471.719 $\chi^2/\text{NDF}: 17.5/18$

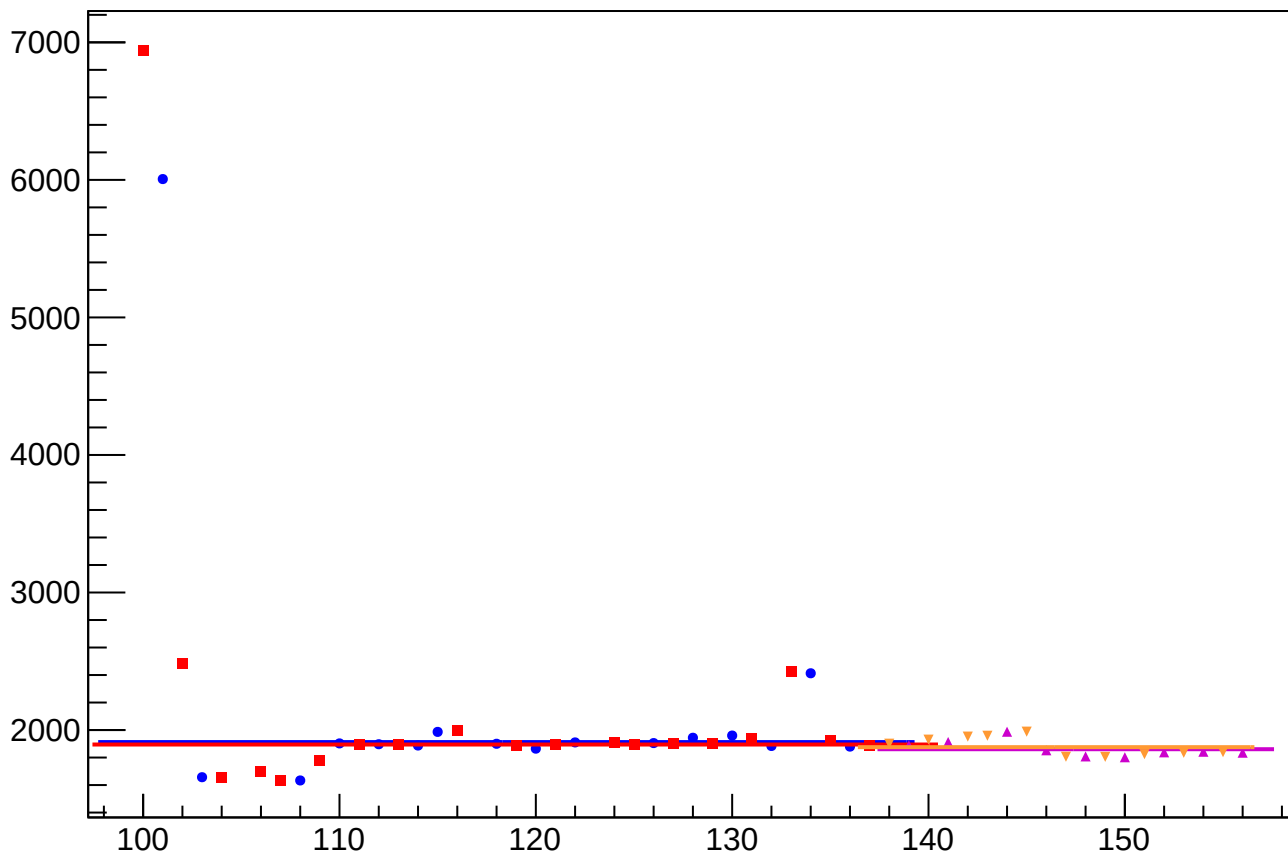
Right: -598.725 ± 507.962 $\chi^2/\text{NDF}: 27.1/34$

In: -691.475 ± 490.948 $\chi^2/\text{NDF}: 22.3/24$

Out: 776.266 ± 486.751 $\chi^2/\text{NDF}: 20.8/28$

All: 48.695 ± 345.659 $\chi^2/\text{NDF}: 47.6/53$

dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.3/15

Left Out: 1875.462+/-0.473 χ^2/NDF : 18920.1/9

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1860.629+/-0.470 χ^2/NDF : 13139.2/8

Left: 1867.991+/-0.334 χ^2/NDF : 32553.7/18

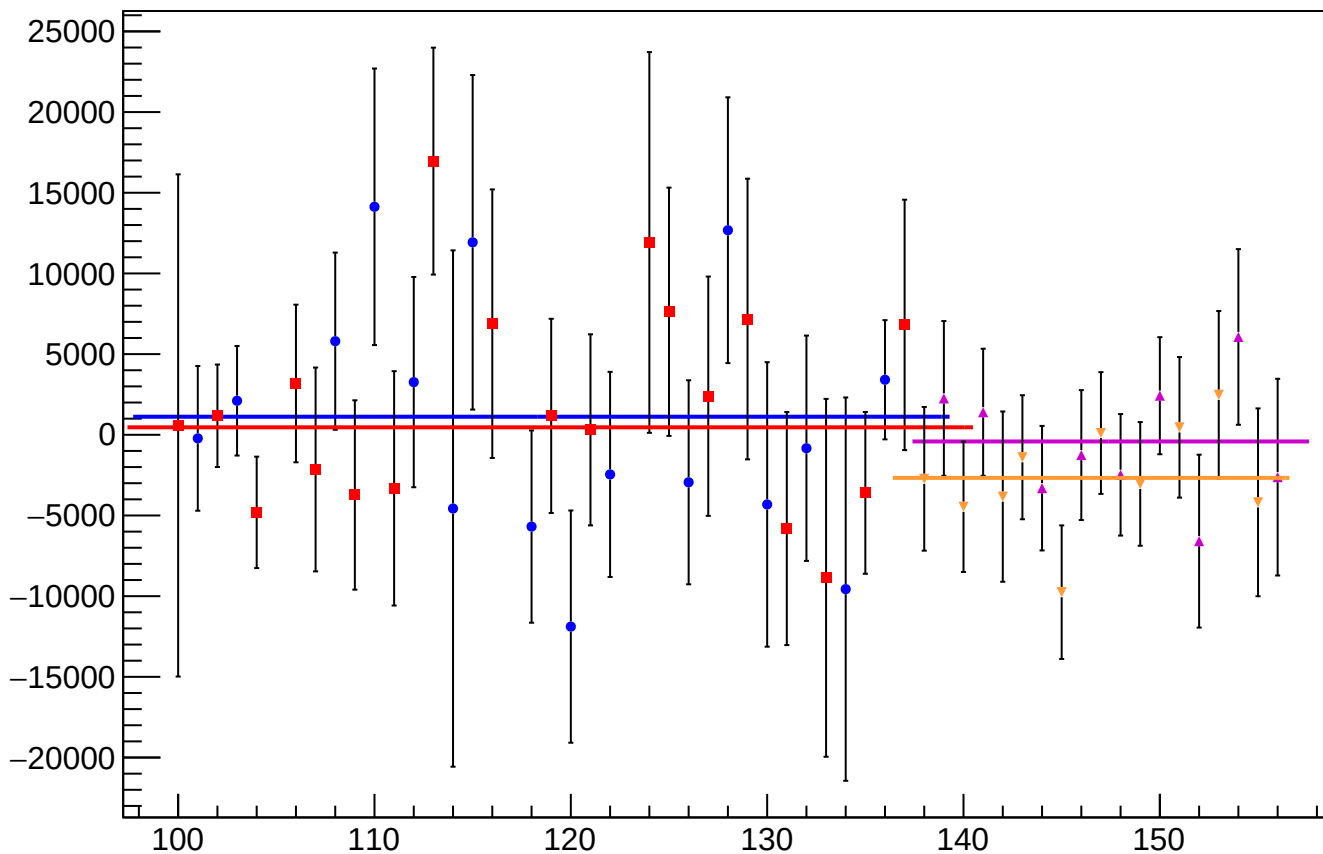
Right: 1903.324+/-0.359 χ^2/NDF : 916603.1/34

In: 1884.146+/-0.347 χ^2/NDF : 714868.7/24

Out: 1884.574+/-0.344 χ^2/NDF : 239486.3/28

All: 1884.362+/-0.244 χ^2/NDF : 954355.7/53

asym_atr_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.173 $\pm$ 1497.671 χ^2 /NDF: 13.5/15

Left Out: -2669.672 $\pm$ 1371.912 χ^2 /NDF: 5.4/9

Right Out: 464.368 $\pm$ 1370.818 χ^2 /NDF: 15.0/18

Left In: -412.748 $\pm$ 1444.882 χ^2 /NDF: 4.9/8

Left: -1599.637 $\pm$ 994.885 χ^2 /NDF: 11.6/18

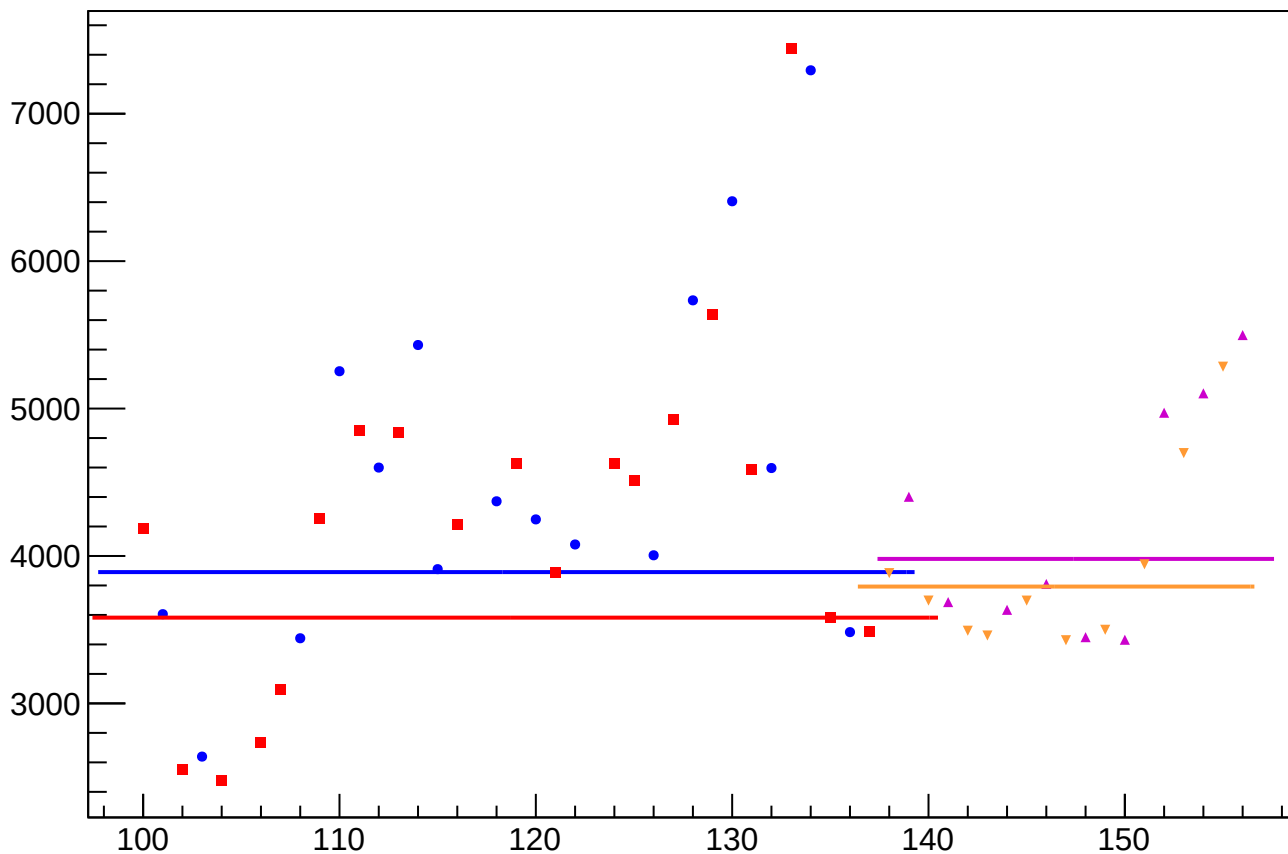
Right: 763.326 $\pm$ 1011.192 χ^2 /NDF: 28.6/34

In: 326.221 $\pm$ 1039.847 χ^2 /NDF: 18.9/24

Out: -1101.402 $\pm$ 969.701 χ^2 /NDF: 23.0/28

All: -437.363 $\pm$ 709.185 χ^2 /NDF: 43.0/53

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: 3792.557 $\pm$ 0.970 χ^2 /NDF: 249257.6/9

Right Out: 3581.780 $\pm$ 0.969 χ^2 /NDF: 1221855.2/18

Left In: 3980.165 $\pm$ 1.022 χ^2 /NDF: 409403.9/8

Left: 3881.504 $\pm$ 0.703 χ^2 /NDF: 676393.7/18

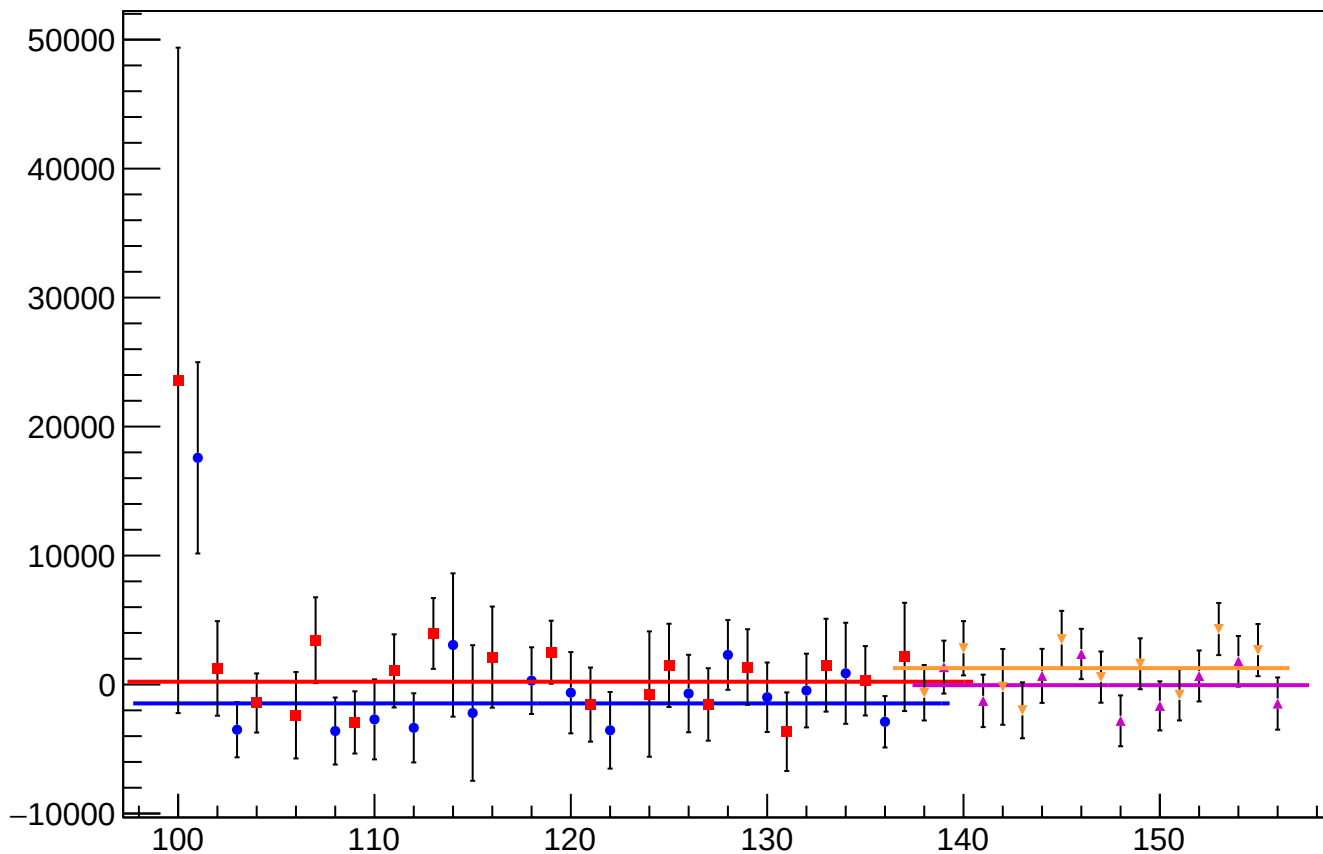
Right: 3722.609 $\pm$ 0.715 χ^2 /NDF: 2146577.5/34

In: 3937.041 $\pm$ 0.735 χ^2 /NDF: 1291517.8/24

Out: 3687.084 $\pm$ 0.686 χ^2 /NDF: 1494736.0/28

All: 3803.348 $\pm$ 0.501 χ^2 /NDF: 2848064.3/53

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: 1272.831 $\pm$ 669.567 χ^2 /NDF: 8.8/9

Right Out: 219.720 $\pm$ 708.852 χ^2 /NDF: 10.8/18

Left In: -49.096 $\pm$ 664.685 χ^2 /NDF: 6.7/8

Left: 607.031 $\pm$ 471.720 χ^2 /NDF: 17.5/18

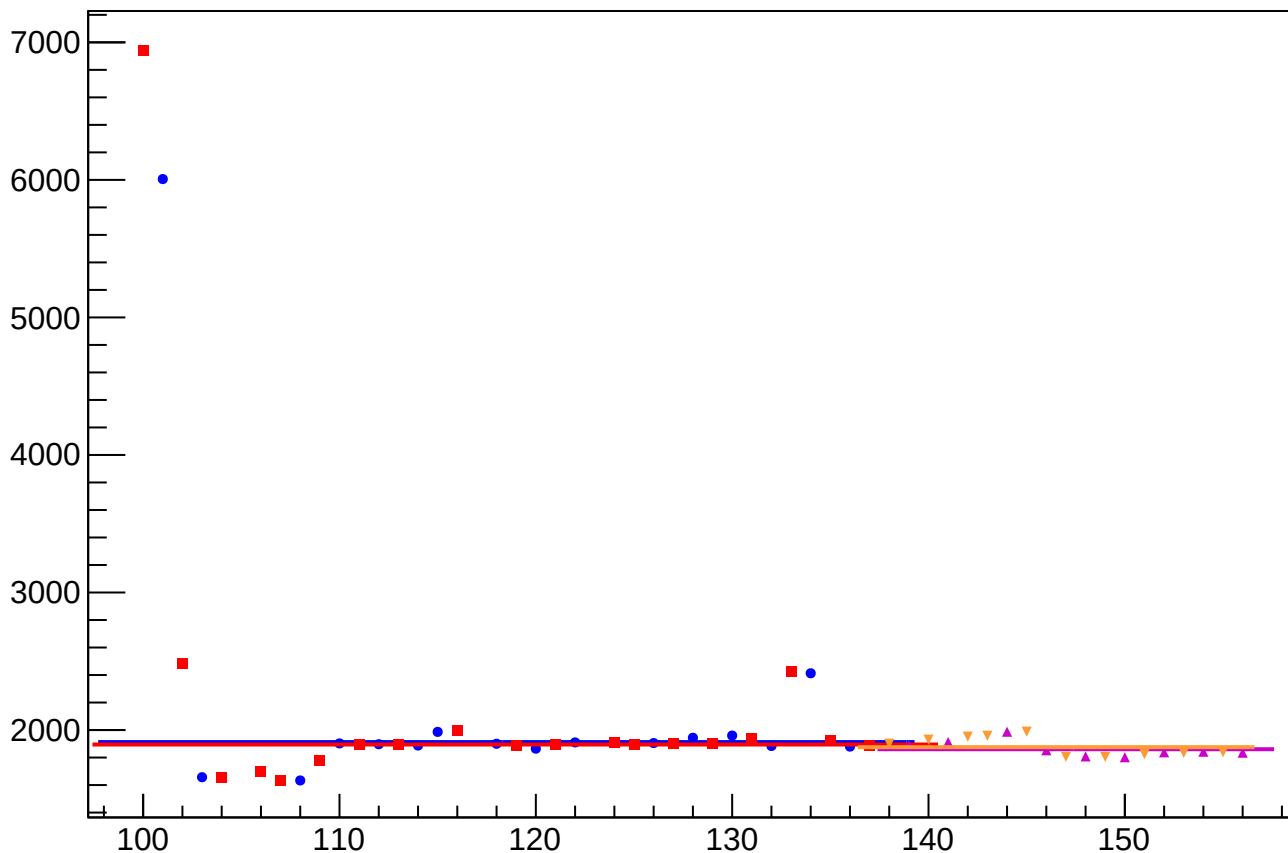
Right: -598.730 $\pm$ 507.962 χ^2 /NDF: 27.1/34

In: -691.475 $\pm$ 490.948 χ^2 /NDF: 22.3/24

Out: 776.265 $\pm$ 486.751 χ^2 /NDF: 20.8/28

All: 48.695 $\pm$ 345.659 χ^2 /NDF: 47.6/53

eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.1/15

Left Out: 1875.463+/-0.473 χ^2/NDF : 18920.2/9

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1860.629+/-0.470 χ^2/NDF : 13139.2/8

Left: 1867.992+/-0.334 χ^2/NDF : 32553.8/18

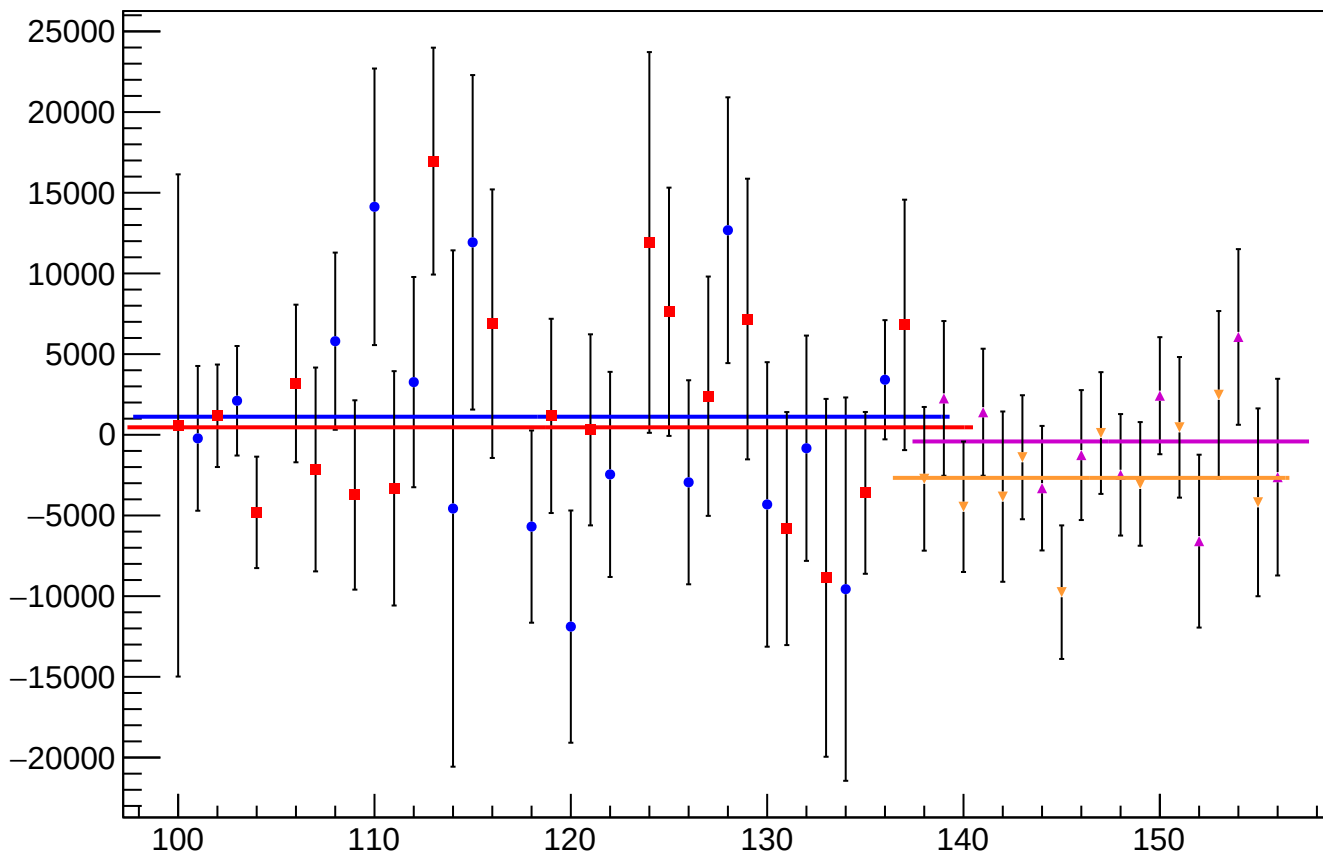
Right: 1903.324+/-0.359 χ^2/NDF : 916602.9/34

In: 1884.146+/-0.347 χ^2/NDF : 714868.4/24

Out: 1884.574+/-0.344 χ^2/NDF : 239486.3/28

All: 1884.362+/-0.244 χ^2/NDF : 954355.5/53

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.159 $\pm$ 1497.669 χ^2 /NDF: 13.5/15

Left Out: -2669.671 $\pm$ 1371.914 χ^2 /NDF: 5.4/9

Right Out: 464.367 $\pm$ 1370.817 χ^2 /NDF: 15.0/18

Left In: -412.746 $\pm$ 1444.883 χ^2 /NDF: 4.9/8

Left: -1599.635 $\pm$ 994.886 χ^2 /NDF: 11.6/18

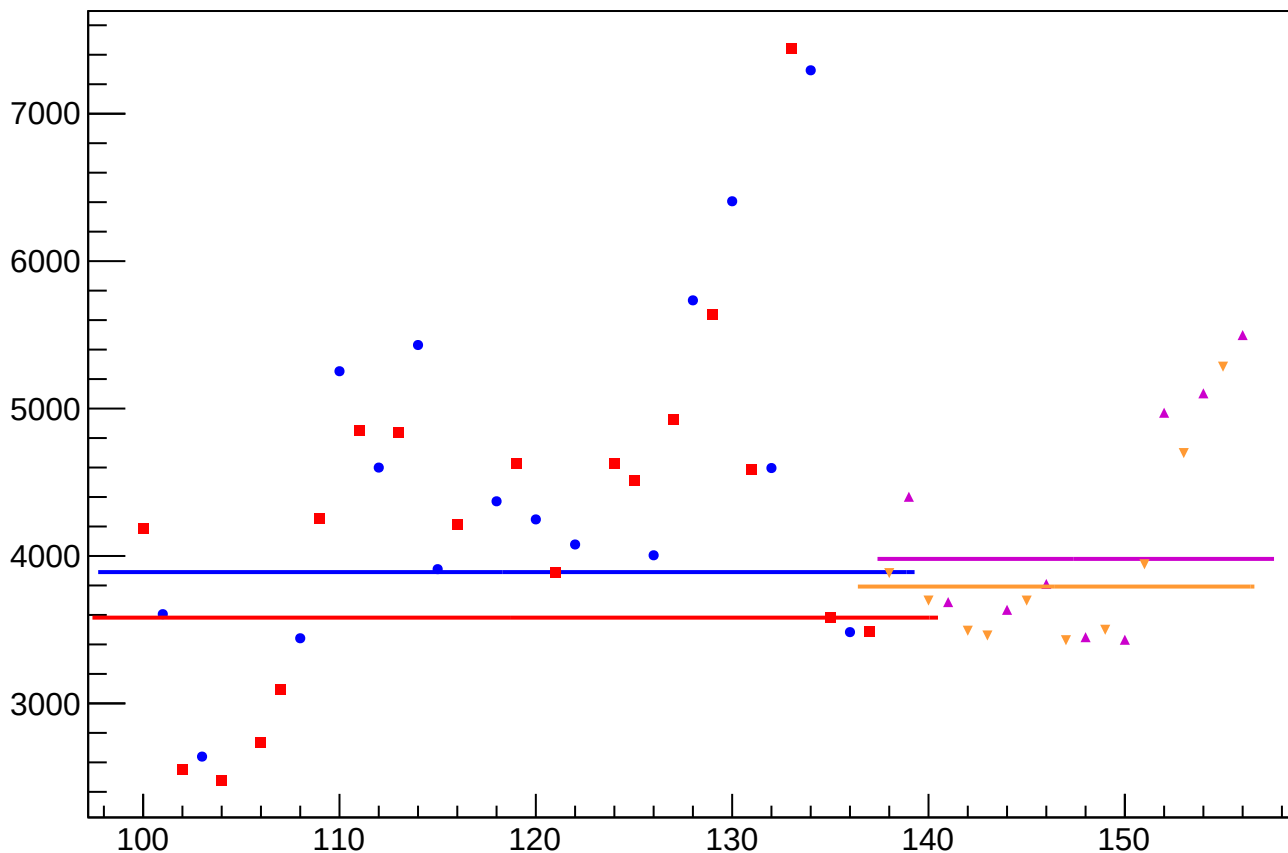
Right: 763.319 $\pm$ 1011.191 χ^2 /NDF: 28.6/34

In: 326.217 $\pm$ 1039.847 χ^2 /NDF: 18.9/24

Out: -1101.398 $\pm$ 969.701 χ^2 /NDF: 23.0/28

All: -437.363 $\pm$ 709.185 χ^2 /NDF: 43.0/53

asym_atr_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3890.705 $\pm$ 1.059 χ^2 /NDF: 878409.2/15

Left Out: 3792.562 $\pm$ 0.970 χ^2 /NDF:249256.7/9

Right Out: 3581.777 $\pm$ 0.969 χ^2 /NDF: 1221846.6/18

Left In: 3980.169 $\pm$ 1.022 χ^2 /NDF:409402.6/8

Left: 3881.509 $\pm$ 0.703 χ^2 /NDF: 676391.3/18

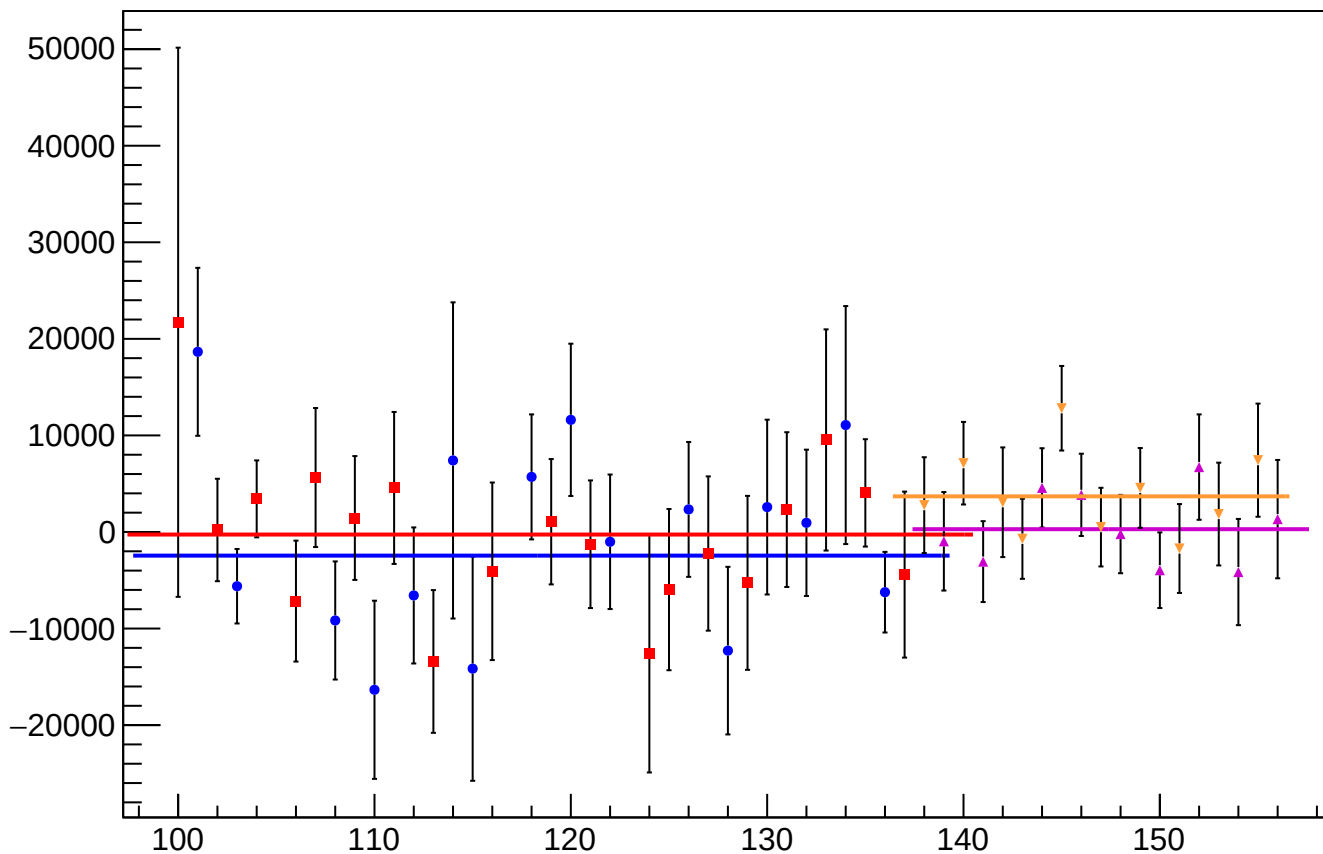
Right: 3722.606 $\pm$ 0.715 χ^2 /NDF: 2146560.1/34

In: 3937.042 $\pm$ 0.735 χ^2 /NDF:1291508.2/24

Out: 3687.085 $\pm$ 0.686 χ^2 /NDF:1494728.2/28

All: 3803.349 $\pm$ 0.501 χ^2 /NDF: 2848047.0/53

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2448.262 ± 1719.694 χ^2/NDF : 20.9/15

Left Out: 3691.105 ± 1462.863 χ^2/NDF : 8.7/9

Right Out: -265.886 ± 1622.574 χ^2/NDF : 10.7/18

Left In: 289.025 ± 1526.649 χ^2/NDF : 5.7/8

Left: 2062.620 ± 1056.231 χ^2/NDF : 17.1/18

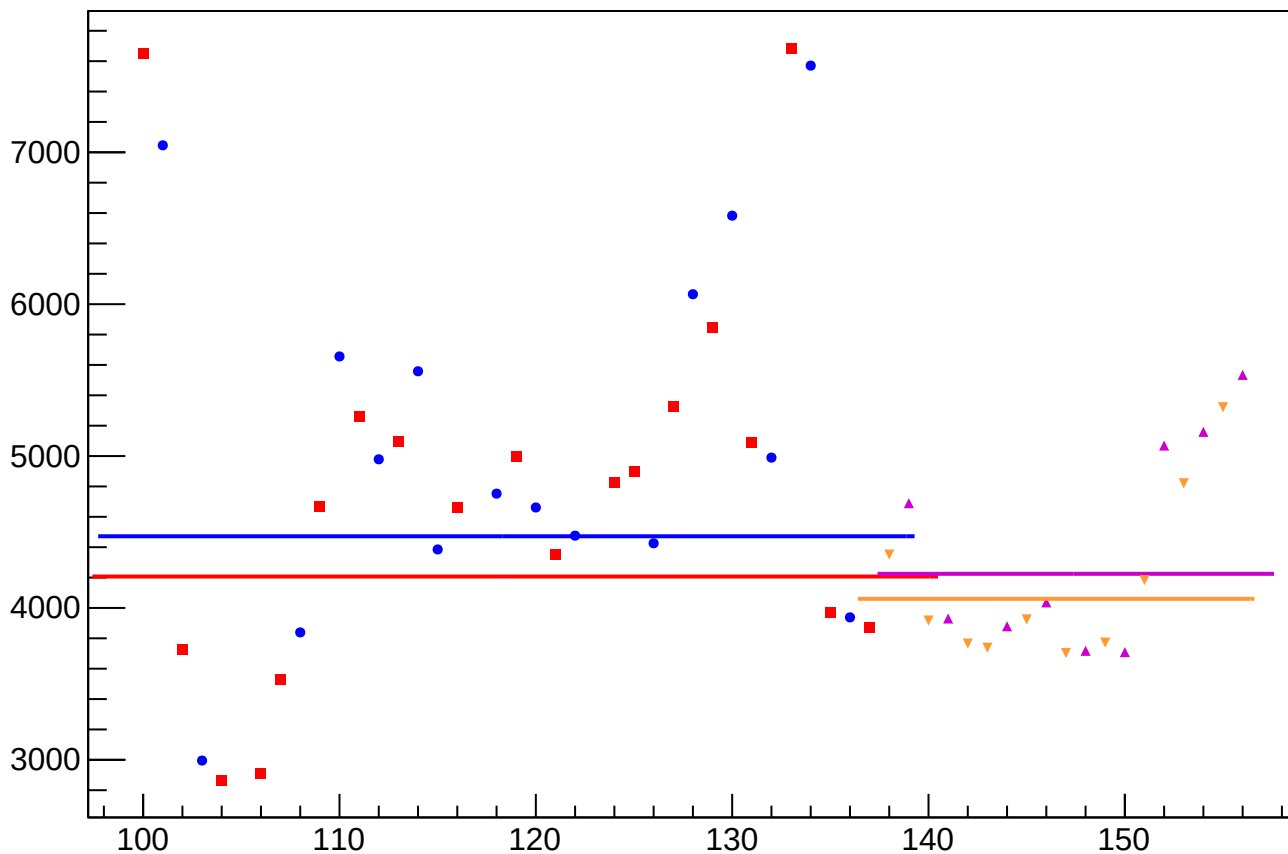
Right: -1293.712 ± 1180.174 χ^2/NDF : 32.4/34

In: -917.419 ± 1141.680 χ^2/NDF : 28.0/24

Out: 1916.887 ± 1086.490 χ^2/NDF : 22.7/28

All: 569.895 ± 787.052 χ^2/NDF : 54.0/53

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4471.904+/-1.216 χ^2/NDF : 891678.4/15

Left Out: 4060.213+/-1.034 χ^2/NDF : 188601.7/9

Right Out: 4206.907+/-1.138 χ^2/NDF : 846525.2/18

Left In: 4224.692+/-1.080 χ^2/NDF : 307419.7/8

Left: 4138.945+/-0.747 χ^2/NDF : 508124.3/18

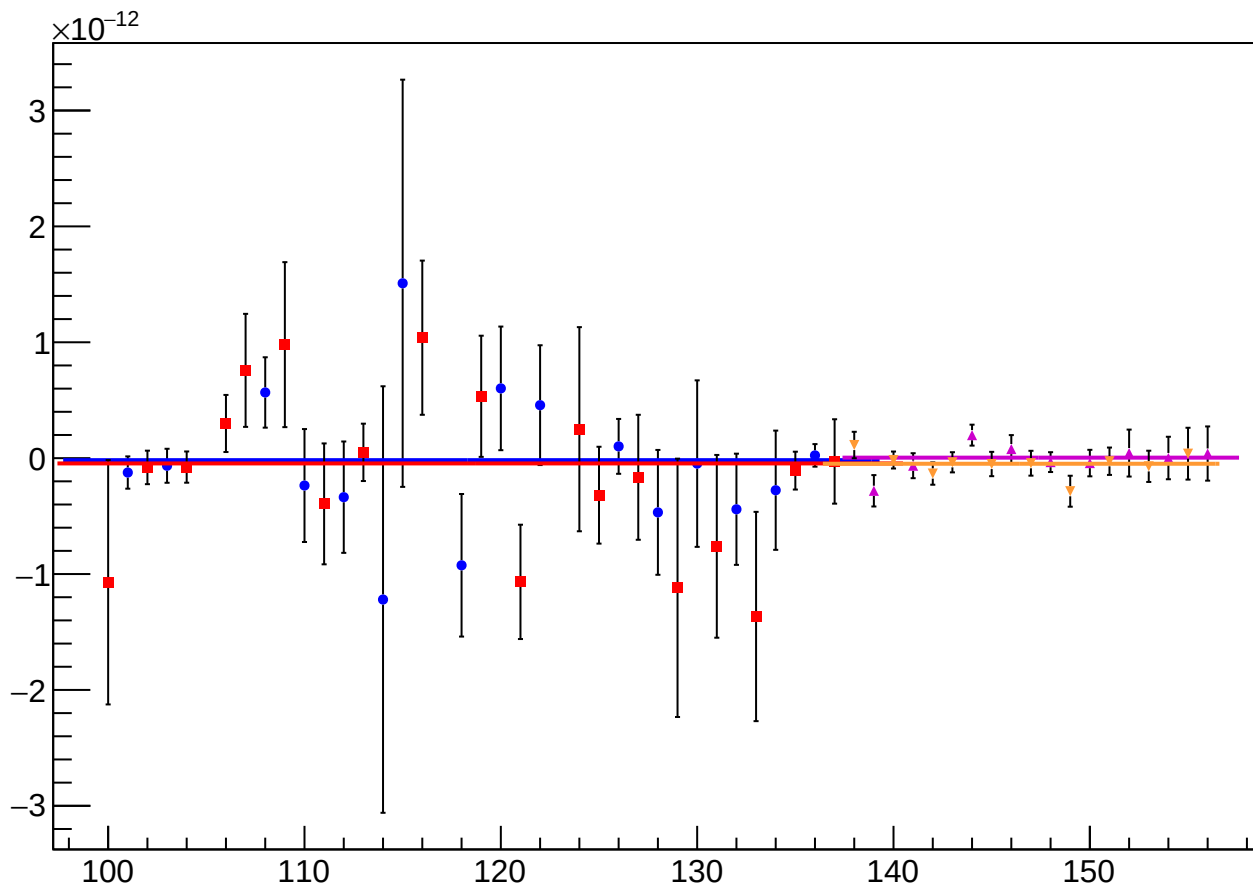
Right: 4330.631+/-0.831 χ^2/NDF : 1763521.7/34

In: 4333.650+/-0.807 χ^2/NDF : 1222212.2/24

Out: 4126.582+/-0.765 χ^2/NDF : 1044226.1/28

All: 4224.609+/-0.555 χ^2/NDF : 2301083.4/53

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 : 6.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.3/8

Left: -0.000+/-0.000 χ^2/NDF : 17.7/18

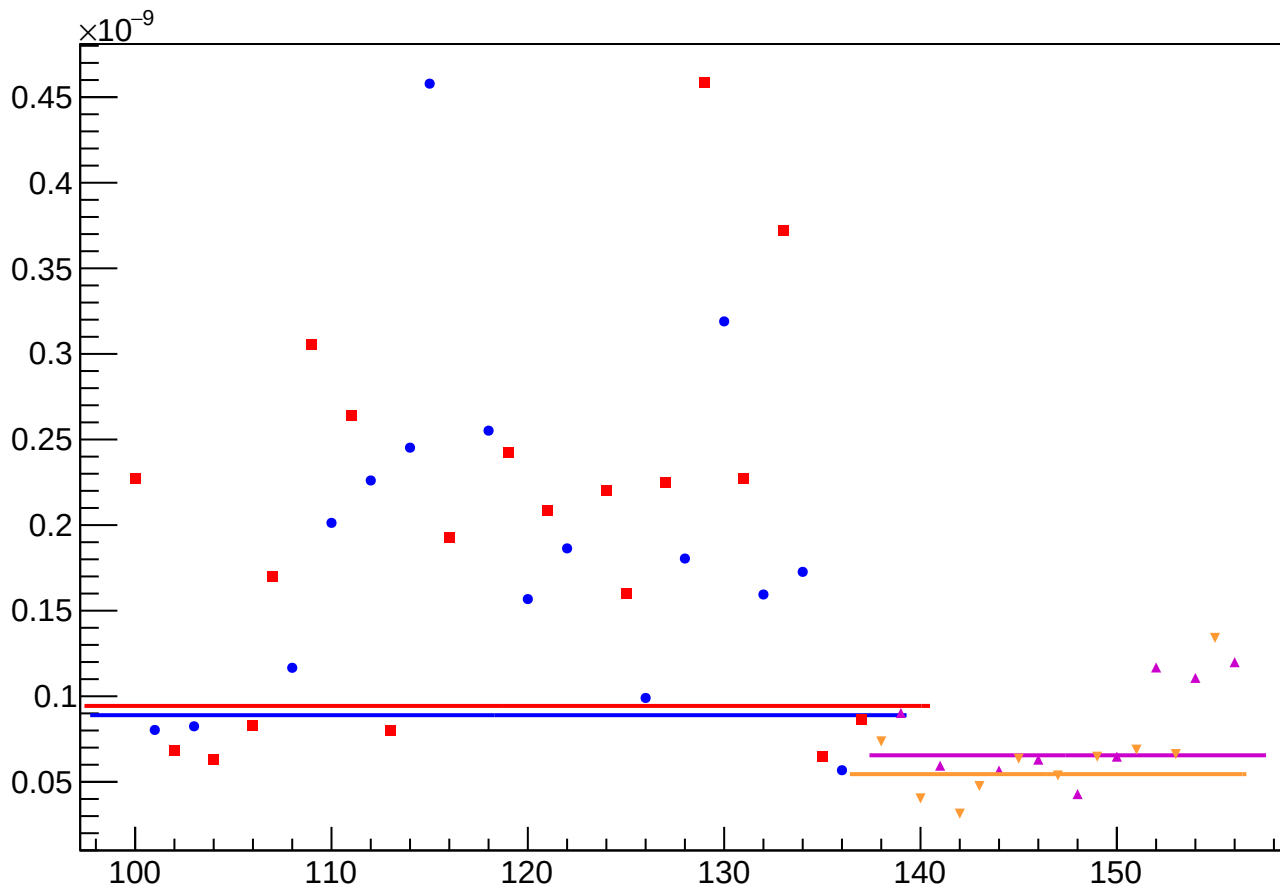
Right: -0.000+/-0.000 χ^2/NDF : 34.1/34

In: -0.000+/-0.000 χ^2/NDF : 23.1/24

Out: -0.000+/-0.000 χ^2/NDF : 27.6/28

All: -0.000+/-0.000 χ^2/NDF : 51.7/53

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 : 583195.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1695078.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 591725.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1263046.1/18

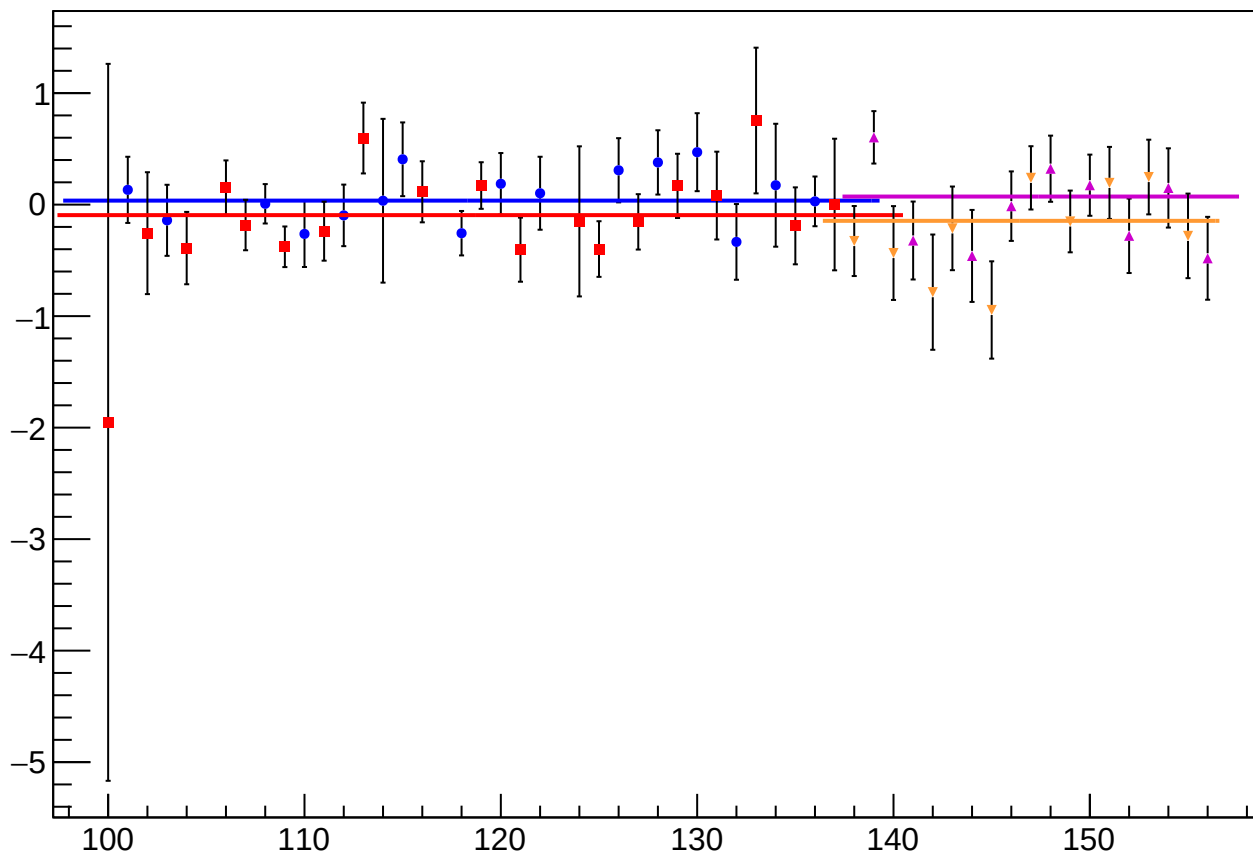
Right: 0.000+/-0.000 χ^2/NDF : 2932262.7/34

In: 0.000+/-0.000 χ^2/NDF : 2025408.4/24

Out: 0.000+/-0.000 χ^2/NDF : 2828958.9/28

All: 0.000+/-0.000 χ^2/NDF : 4956750.7/53

asym_atr_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.145 ± 0.110 $\chi^2/\text{NDF}: 10.2/9$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.072 ± 0.105 $\chi^2/\text{NDF}: 12.3/8$

Left: -0.031 ± 0.076 $\chi^2/\text{NDF}: 24.6/18$

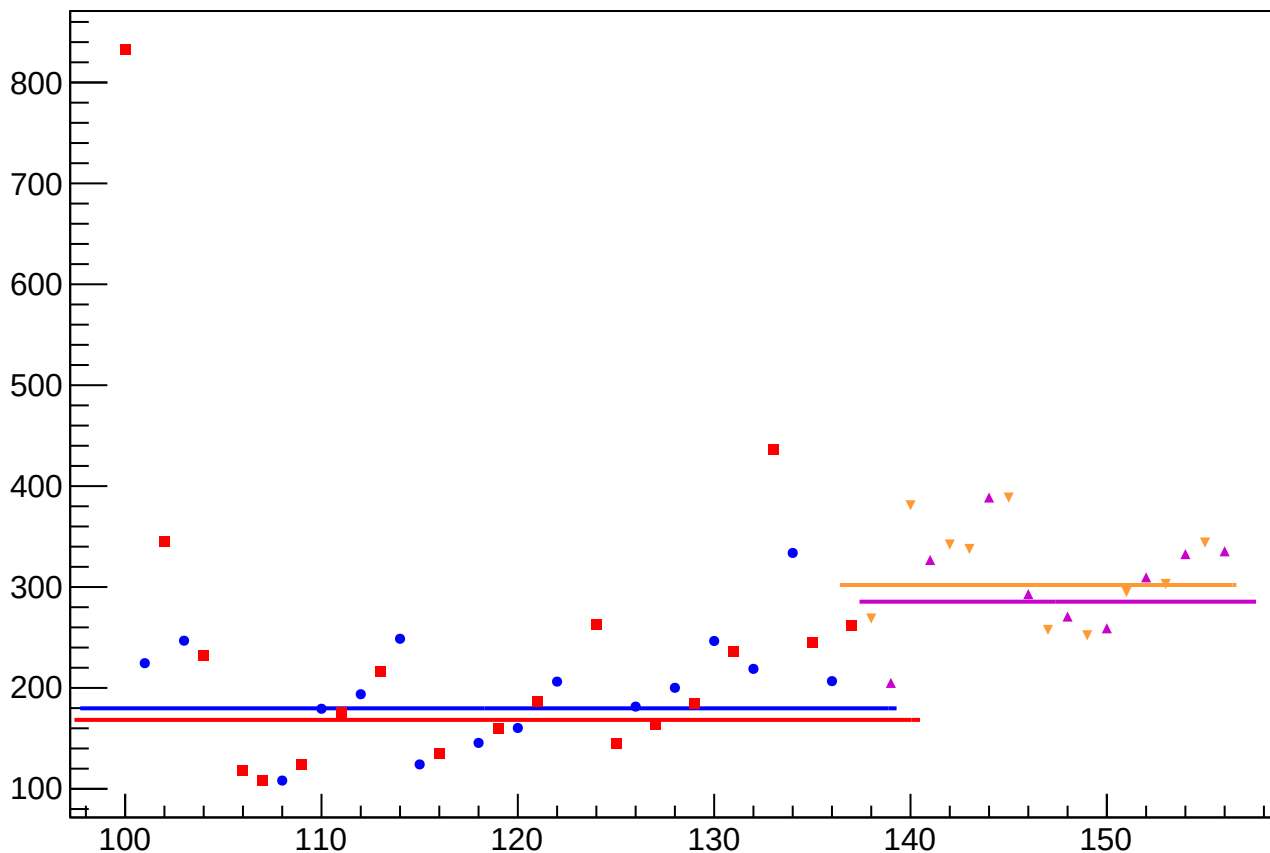
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.047 ± 0.059 $\chi^2/\text{NDF}: 23.0/24$

Out: -0.108 ± 0.058 $\chi^2/\text{NDF}: 28.0/28$

All: -0.032 ± 0.041 $\chi^2/\text{NDF}: 54.5/53$

asym_atr_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.796 $\pm$ 0.050 χ^2 /NDF: 918536.0/15

Left Out: 302.012 $\pm$ 0.078 χ^2 /NDF: 341506.0/9

Right Out: 168.334 $\pm$ 0.048 χ^2 /NDF: 1409290.2/18

Left In: 285.474 $\pm$ 0.074 χ^2 /NDF: 493997.1/8

Left: 293.342 $\pm$ 0.054 χ^2 /NDF: 859249.0/18

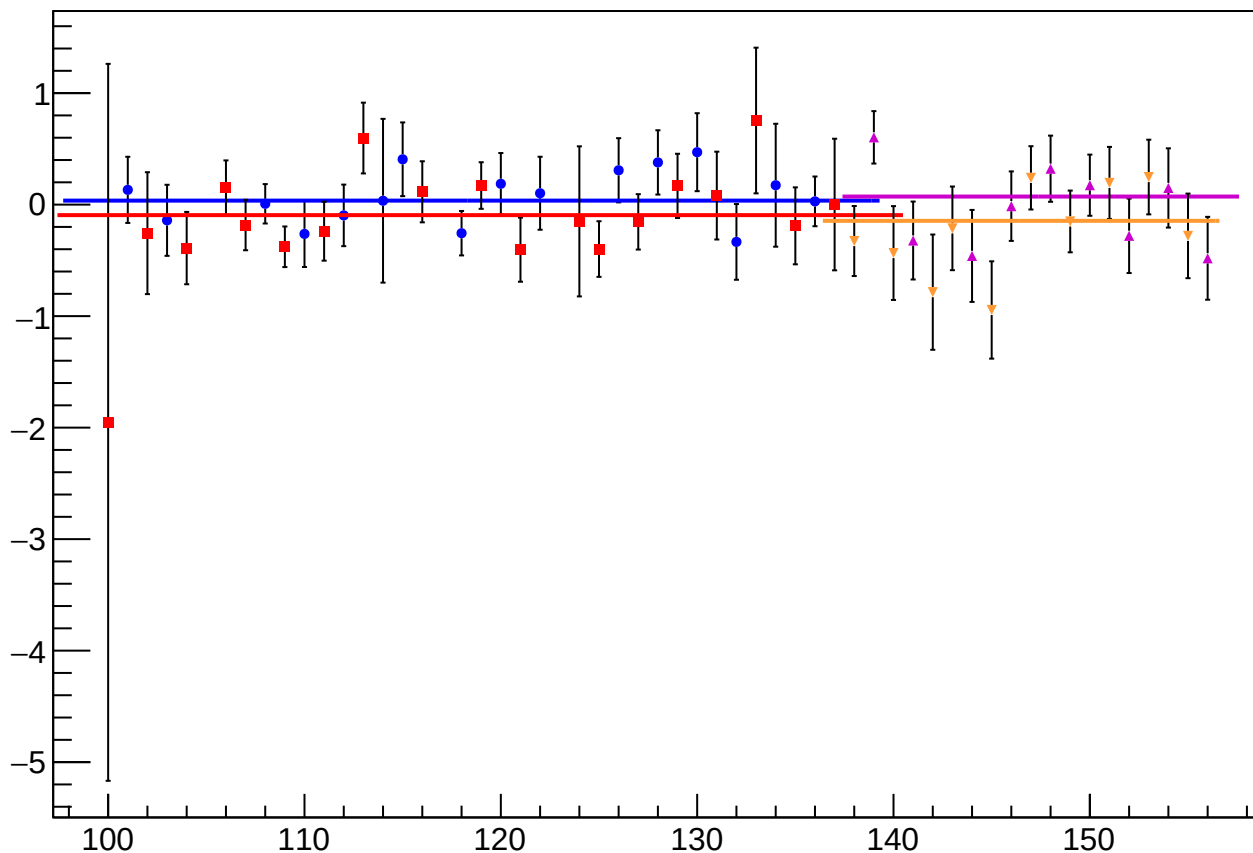
Right: 173.821 $\pm$ 0.035 χ^2 /NDF: 2355323.0/34

In: 212.818 $\pm$ 0.041 χ^2 /NDF: 2813625.5/24

Out: 205.058 $\pm$ 0.041 χ^2 /NDF: 3897220.1/28

All: 208.877 $\pm$ 0.029 χ^2 /NDF: 6728706.2/53

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: -0.145 ± 0.110 $\chi^2/\text{NDF}: 10.2/9$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.072 ± 0.105 $\chi^2/\text{NDF}: 12.3/8$

Left: -0.031 ± 0.076 $\chi^2/\text{NDF}: 24.6/18$

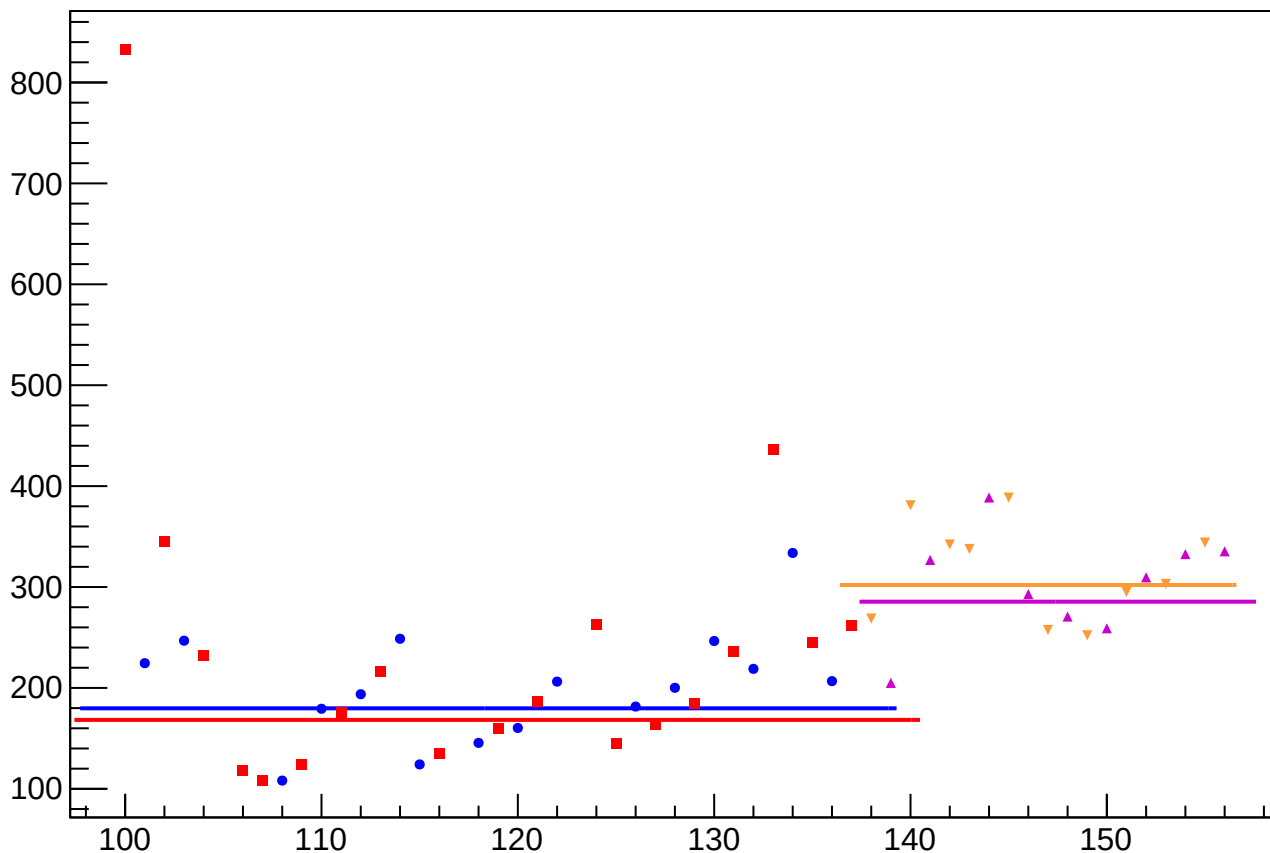
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.047 ± 0.059 $\chi^2/\text{NDF}: 23.0/24$

Out: -0.108 ± 0.058 $\chi^2/\text{NDF}: 28.0/28$

All: -0.032 ± 0.041 $\chi^2/\text{NDF}: 54.5/53$

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: 302.012+/-0.078 χ^2/NDF : 341506.0/9

Right Out: 168.334+/-0.048 χ^2/NDF : 1409290.2/18

Left In: 285.474+/-0.074 χ^2/NDF : 493997.1/8

Left: 293.342+/-0.054 χ^2/NDF : 859249.0/18

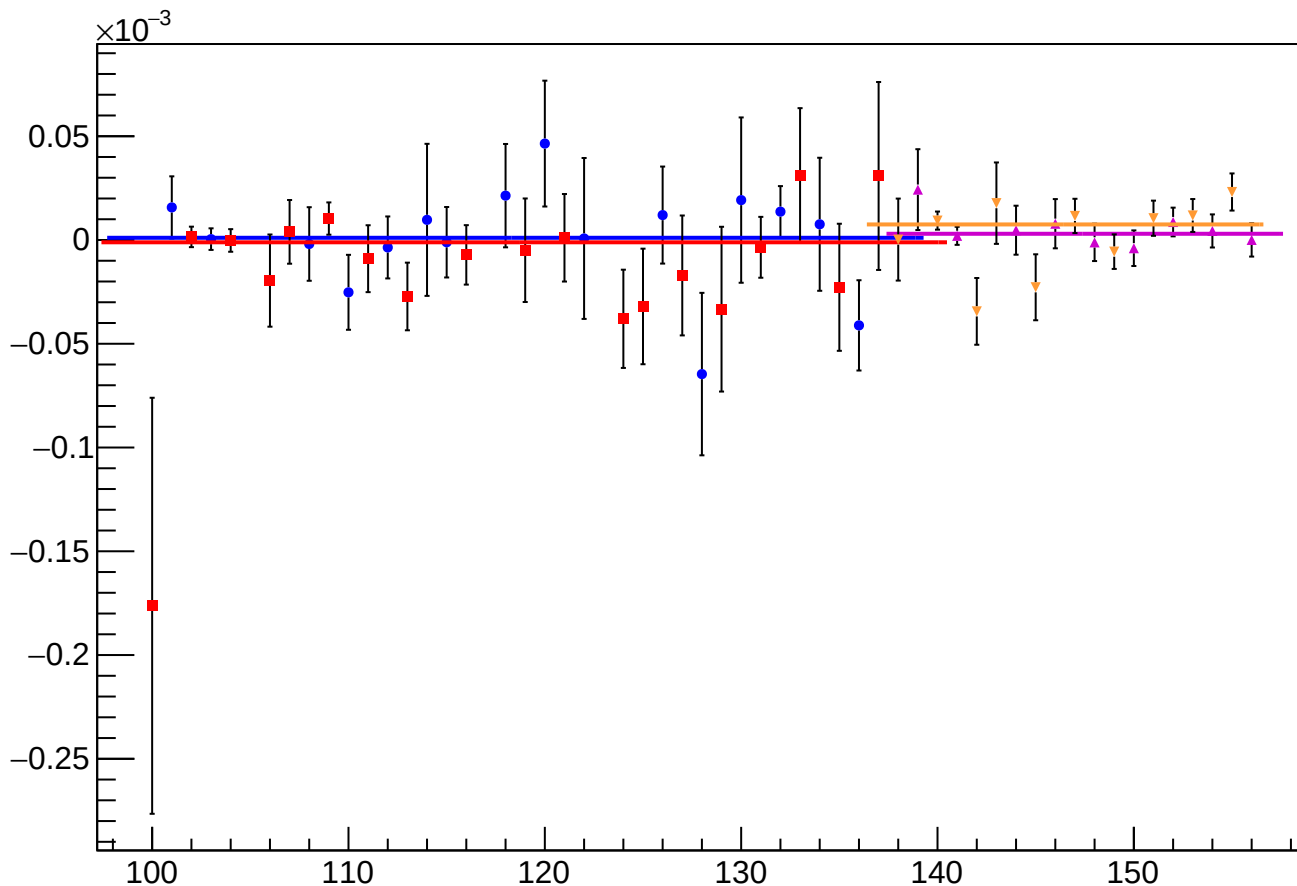
Right: 173.821+/-0.035 χ^2/NDF : 2355323.0/34

In: 212.818+/-0.041 χ^2/NDF : 2813625.5/24

Out: 205.058+/-0.041 χ^2/NDF : 3897220.1/28

All: 208.877+/-0.029 χ^2/NDF : 6728706.2/53

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 : 17.2/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 3.1/8

Left: 0.000 ± 0.000 χ^2/NDF : 21.8/18

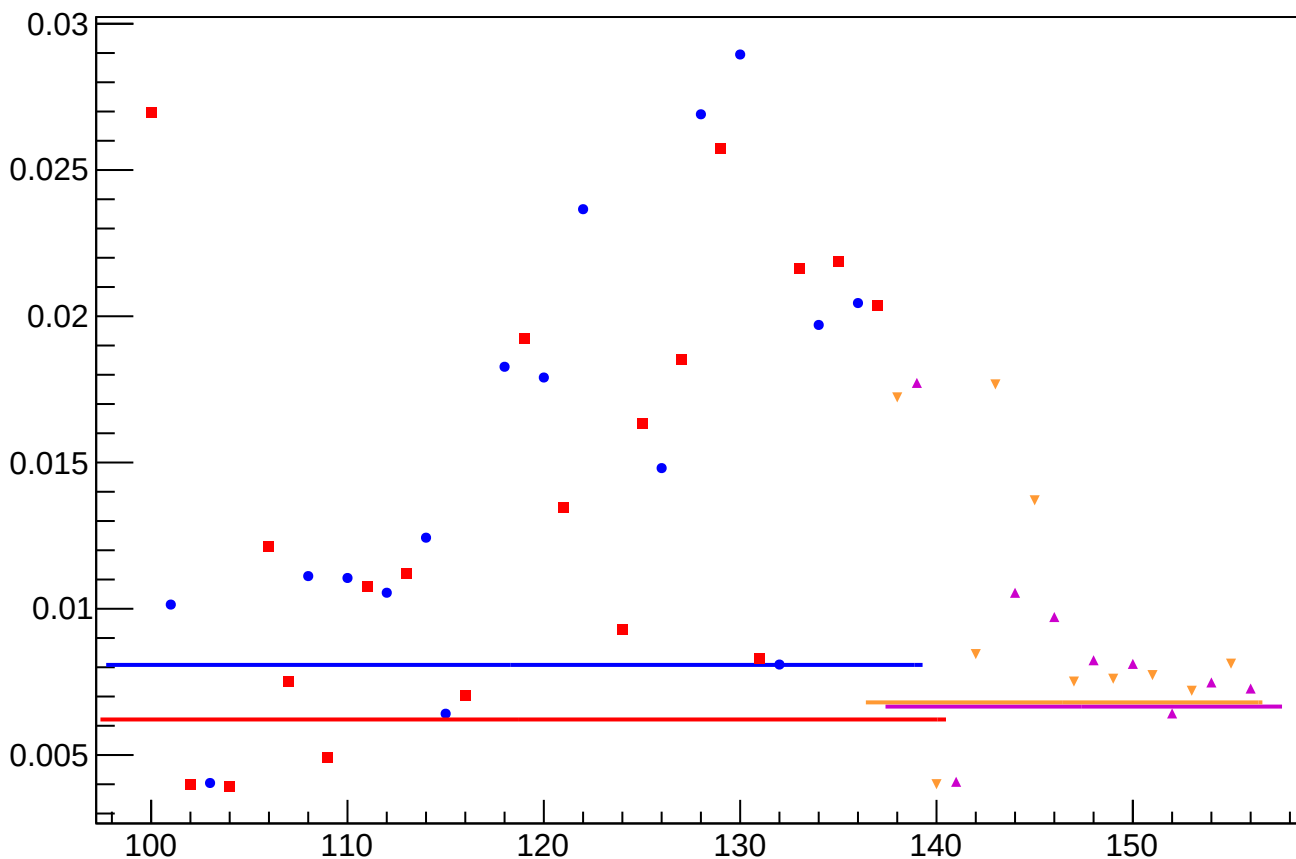
Right: -0.000 ± 0.000 χ^2/NDF : 30.5/34

In: 0.000 ± 0.000 χ^2/NDF : 17.6/24

Out: 0.000 ± 0.000 χ^2/NDF : 38.1/28

All: 0.000 ± 0.000 χ^2/NDF : 55.8/53

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: 0.007+/-0.000 χ^2/NDF :2497142.2/9

Right Out: 0.006+/-0.000 χ^2/NDF : 4560988.3/18

Left In: 0.007+/-0.000 χ^2/NDF :1849893.4/8

Left: 0.007+/-0.000 χ^2/NDF : 4349945.4/18

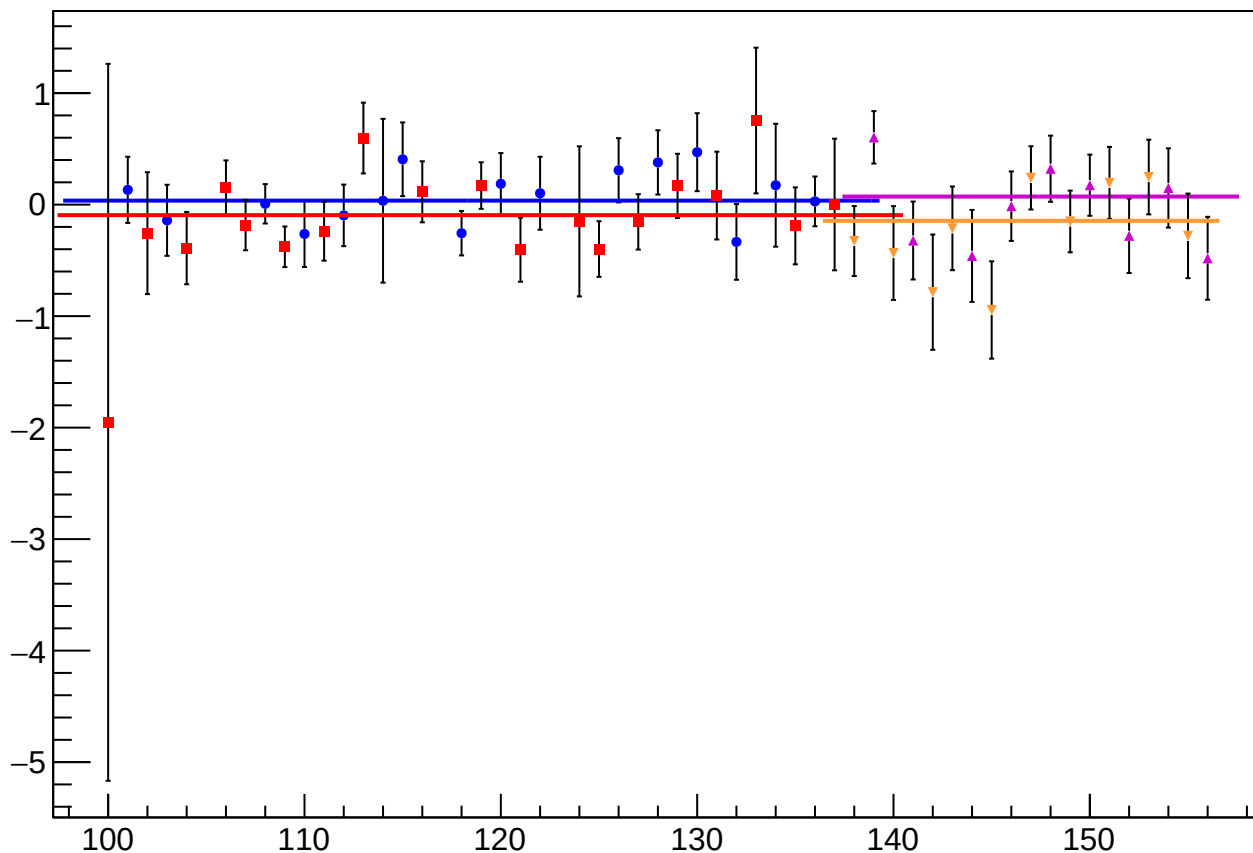
Right: 0.007+/-0.000 χ^2/NDF : 9295058.4/34

In: 0.007+/-0.000 χ^2/NDF :6460818.6/24

Out: 0.007+/-0.000 χ^2/NDF :7102945.9/28

All: 0.007+/-0.000 χ^2/NDF : 13651867.4/53

asym_atr_dd_eigen_dit_vs_Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.145 ± 0.110 $\chi^2/\text{NDF}: 10.2/9$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.072 ± 0.105 $\chi^2/\text{NDF}: 12.3/8$

Left: -0.031 ± 0.076 $\chi^2/\text{NDF}: 24.6/18$

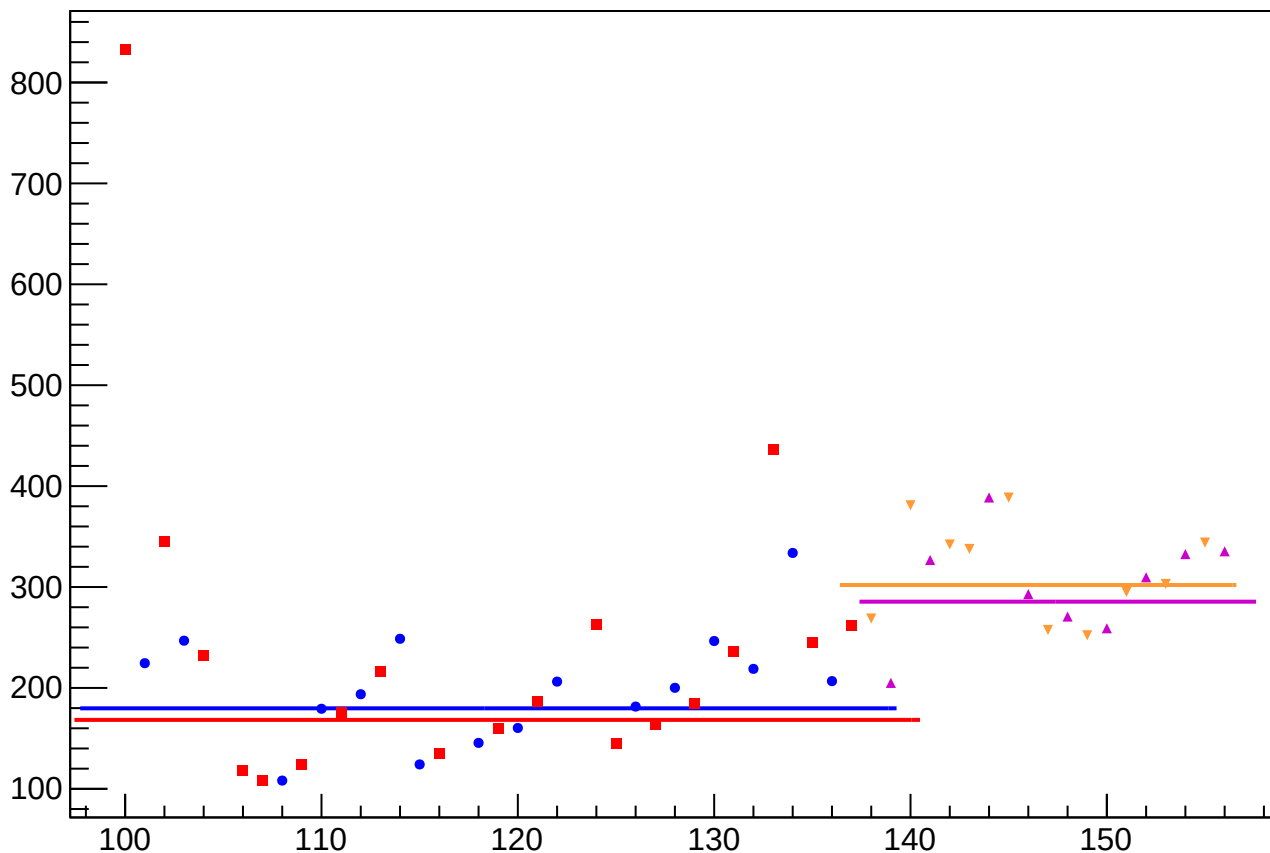
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.047 ± 0.059 $\chi^2/\text{NDF}: 23.0/24$

Out: -0.108 ± 0.058 $\chi^2/\text{NDF}: 28.0/28$

All: -0.032 ± 0.041 $\chi^2/\text{NDF}: 54.5/53$

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: 302.016+/-0.078 χ^2/NDF : 341487.1/9

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 285.477+/-0.074 χ^2/NDF : 493964.6/8

Left: 293.346+/-0.054 χ^2/NDF : 859197.8/18

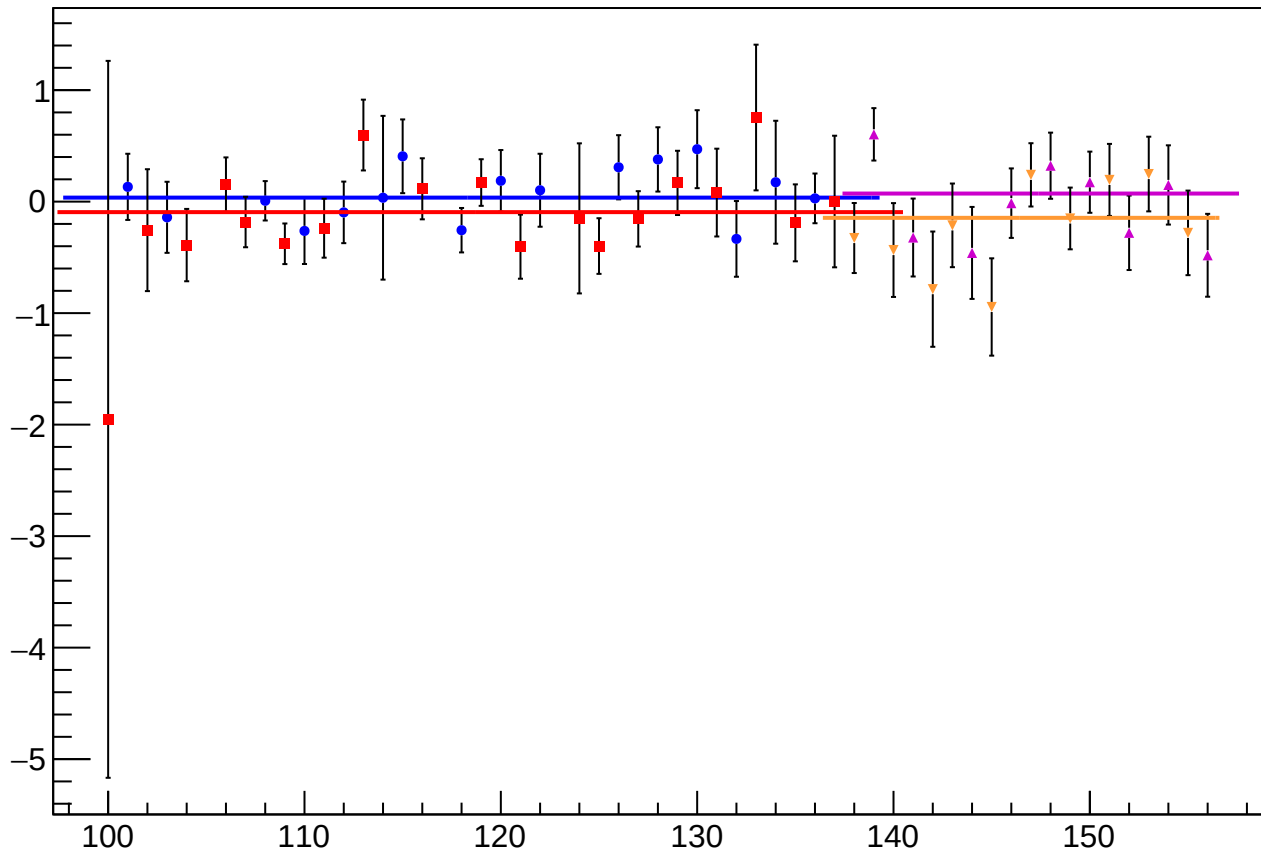
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 212.816+/-0.041 χ^2/NDF : 2813792.7/24

Out: 205.059+/-0.041 χ^2/NDF : 3897292.2/28

All: 208.876+/-0.029 χ^2/NDF : 6728936.4/53

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: -0.145 ± 0.110 $\chi^2/\text{NDF}: 10.2/9$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.072 ± 0.105 $\chi^2/\text{NDF}: 12.3/8$

Left: -0.031 ± 0.076 $\chi^2/\text{NDF}: 24.6/18$

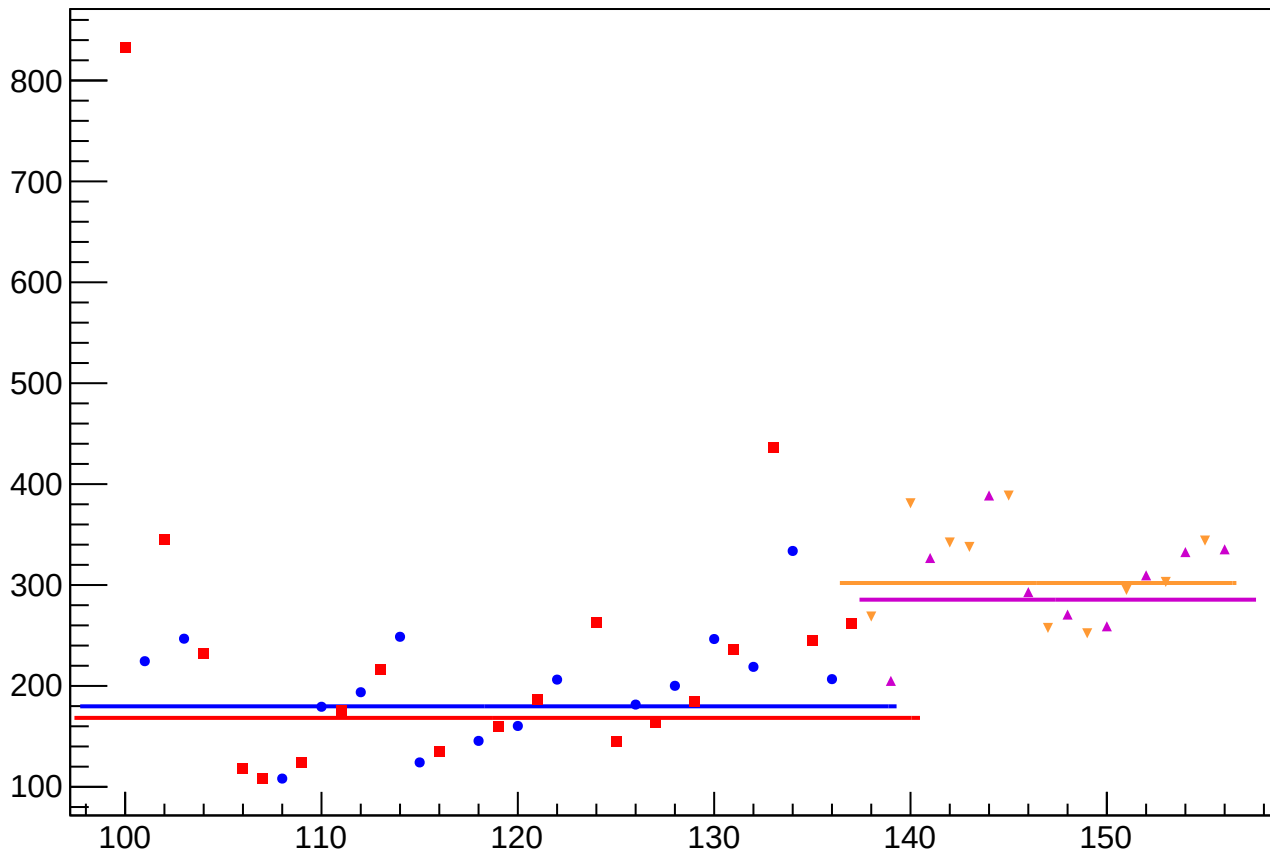
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.047 ± 0.059 $\chi^2/\text{NDF}: 23.0/24$

Out: -0.108 ± 0.058 $\chi^2/\text{NDF}: 28.0/28$

All: -0.032 ± 0.041 $\chi^2/\text{NDF}: 54.5/53$

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: 302.016+/-0.078 χ^2/NDF : 341487.1/9

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 285.477+/-0.074 χ^2/NDF : 493964.6/8

Left: 293.346+/-0.054 χ^2/NDF : 859197.8/18

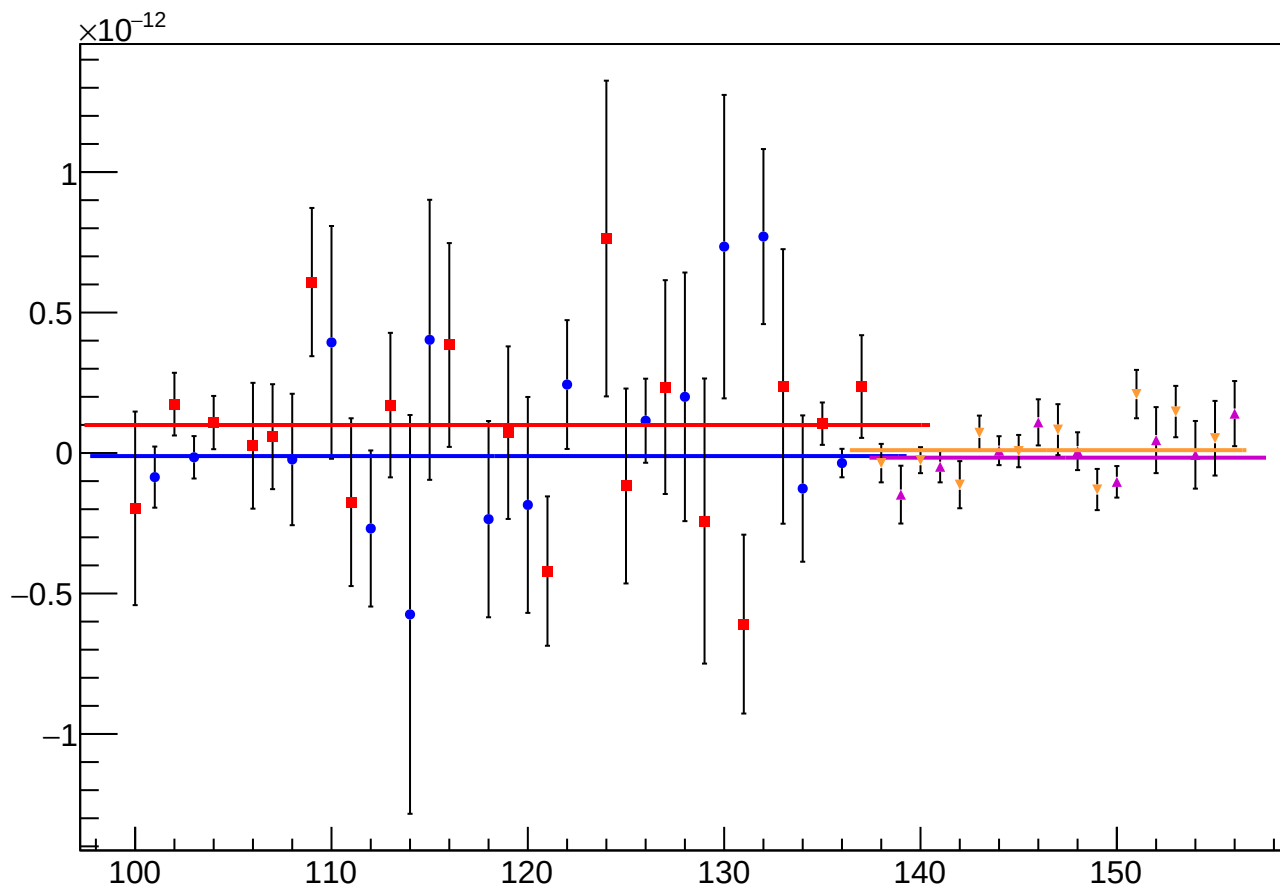
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 212.816+/-0.041 χ^2/NDF : 2813792.7/24

Out: 205.059+/-0.041 χ^2/NDF : 3897292.2/28

All: 208.876+/-0.029 χ^2/NDF : 6728936.4/53

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 : 16.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.1/8

Left: -0.000+/-0.000 χ^2/NDF : 26.0/18

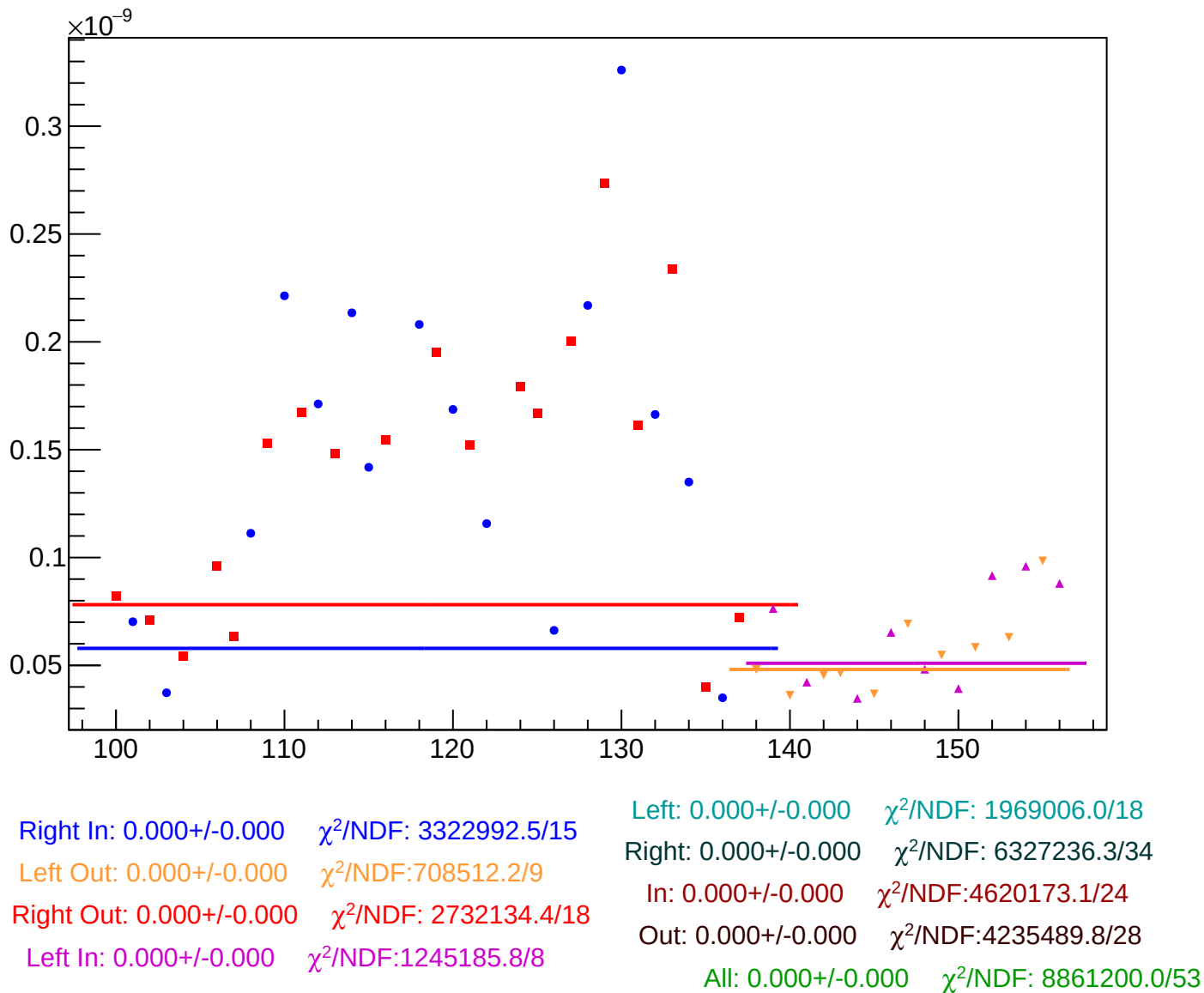
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: -0.000+/-0.000 χ^2/NDF : 24.2/24

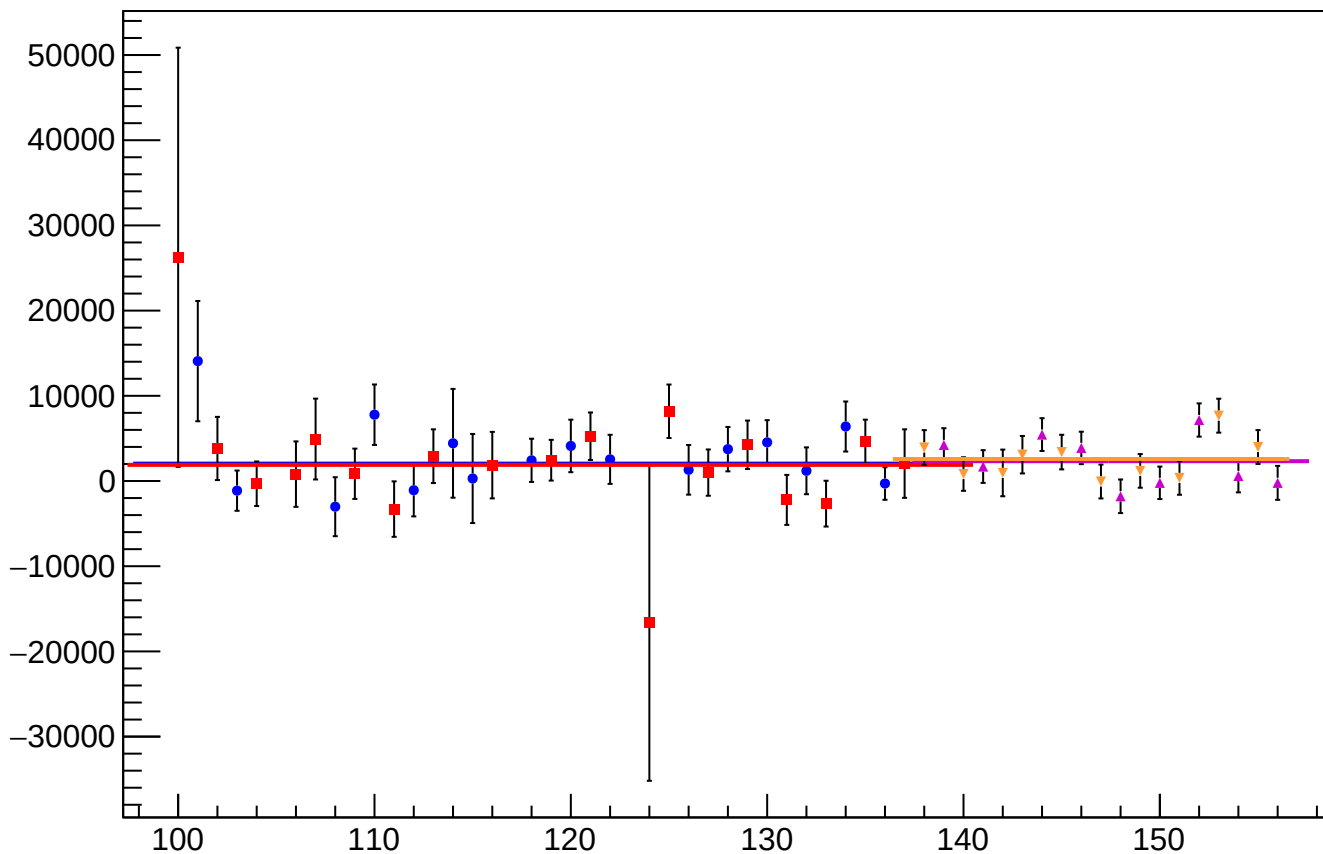
Out: 0.000+/-0.000 χ^2/NDF : 38.2/28

All: 0.000+/-0.000 χ^2/NDF : 64.9/53

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2039.211+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2582.980+/-651.966 χ^2/NDF :12.4/9

Right Out: 1895.242+/-736.762 χ^2/NDF : 18.5/18

Left In: 2327.381+/-646.471 χ^2/NDF :19.0/8

Left: 2454.099+/-459.055 χ^2/NDF : 31.5/18

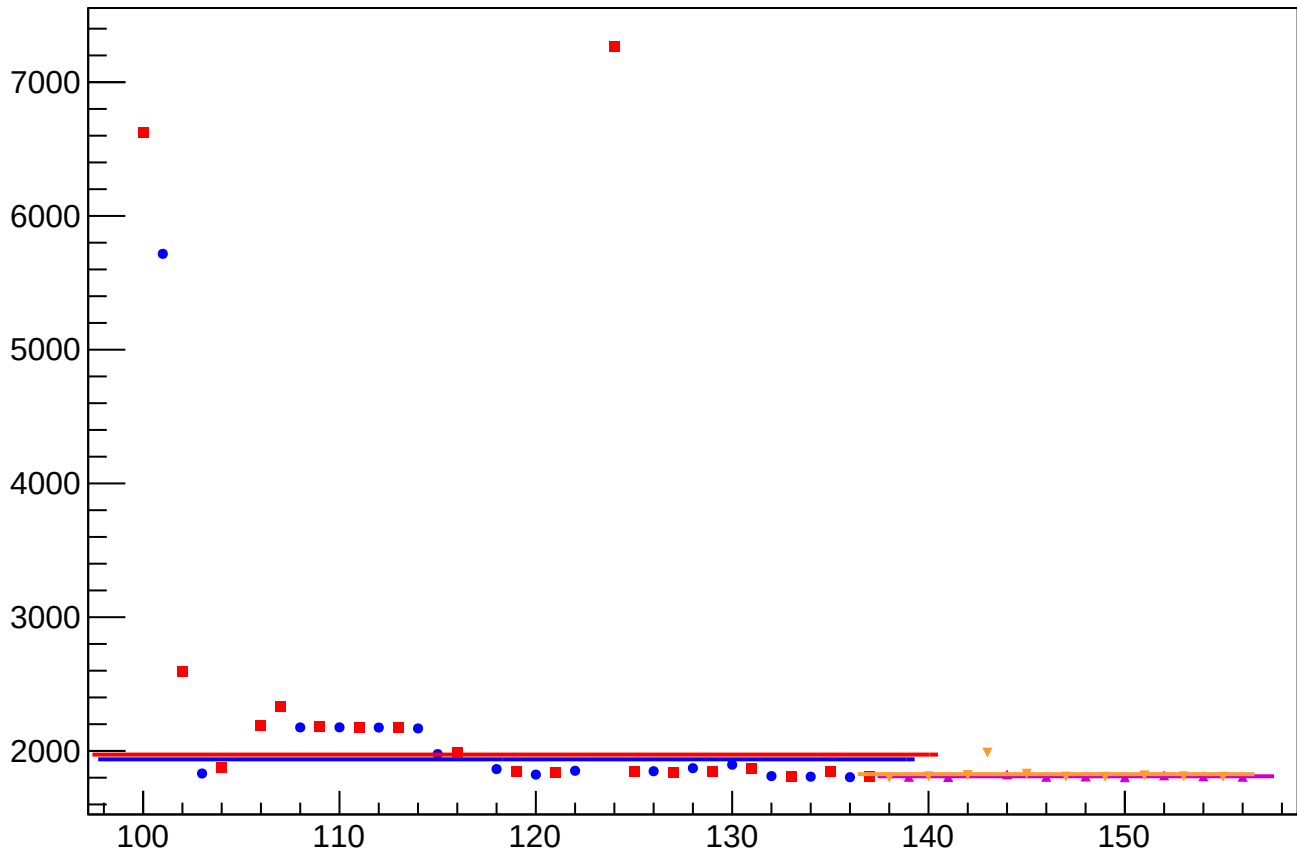
Right: 1967.281+/-520.774 χ^2/NDF : 35.0/34

In: 2201.921+/-485.771 χ^2/NDF :35.6/24

Out: 2280.949+/-488.250 χ^2/NDF :31.4/28

All: 2241.234+/-344.365 χ^2/NDF : 67.0/53

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1826.681+/-0.461 χ^2/NDF :11916.6/9

Right Out: 1972.760+/-0.521 χ^2/NDF : 377537.1/18

Left In: 1810.400+/-0.457 χ^2/NDF :200.0/8

Left: 1818.471+/-0.325 χ^2/NDF : 12745.5/18

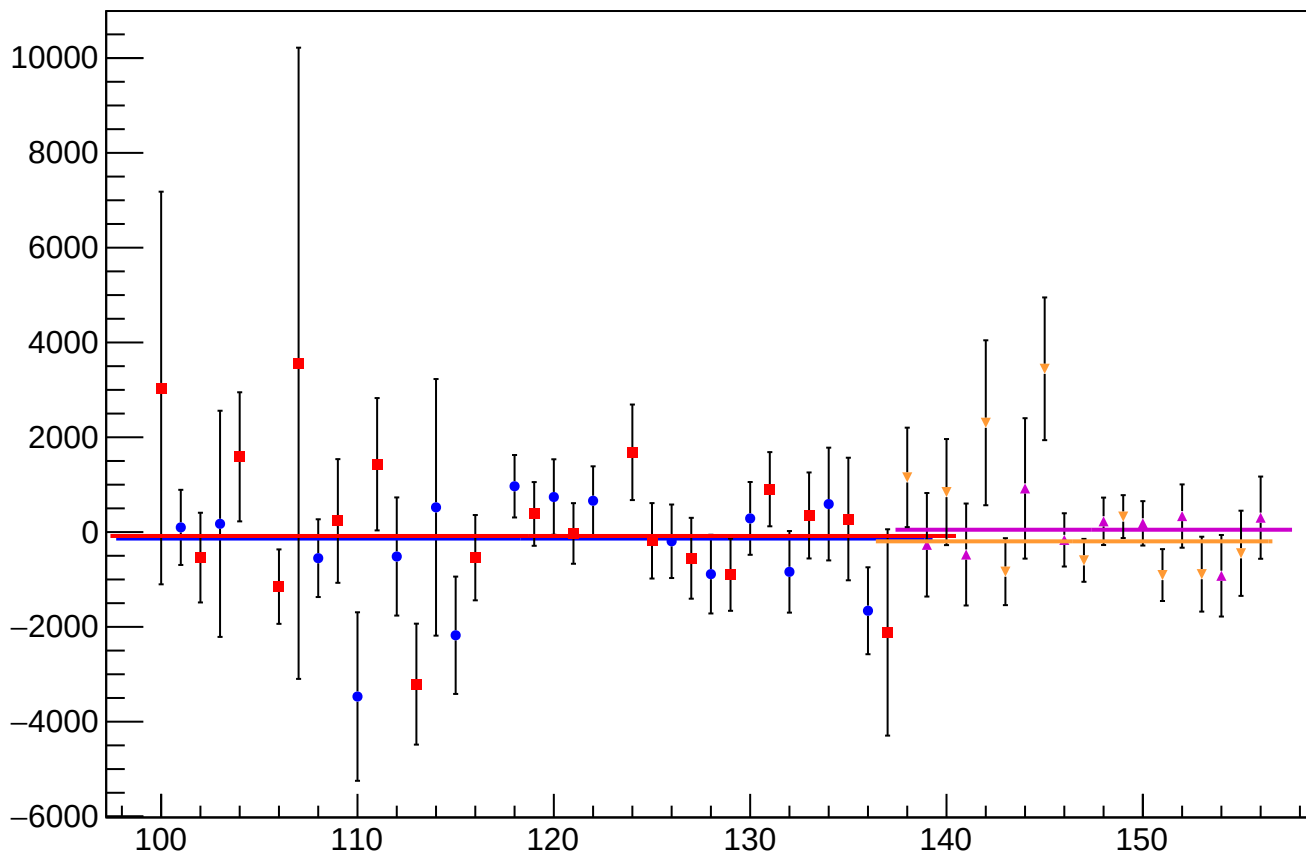
Right: 1954.992+/-0.368 χ^2/NDF : 1017954.2/34

In: 1865.627+/-0.343 χ^2/NDF :671818.5/24

Out: 1890.834+/-0.345 χ^2/NDF :433548.7/28

All: 1878.166+/-0.244 χ^2/NDF : 1108046.1/53

asym_at1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -136.643+/-230.431 χ^2/NDF : 16.9/15

Left Out: -195.460+/-221.222 χ^2/NDF :15.9/9

Right Out: -82.296+/-222.019 χ^2/NDF : 19.7/18

Left In: 49.270+/-230.607 χ^2/NDF :2.6/8

Left: -78.176+/-159.642 χ^2/NDF : 19.1/18

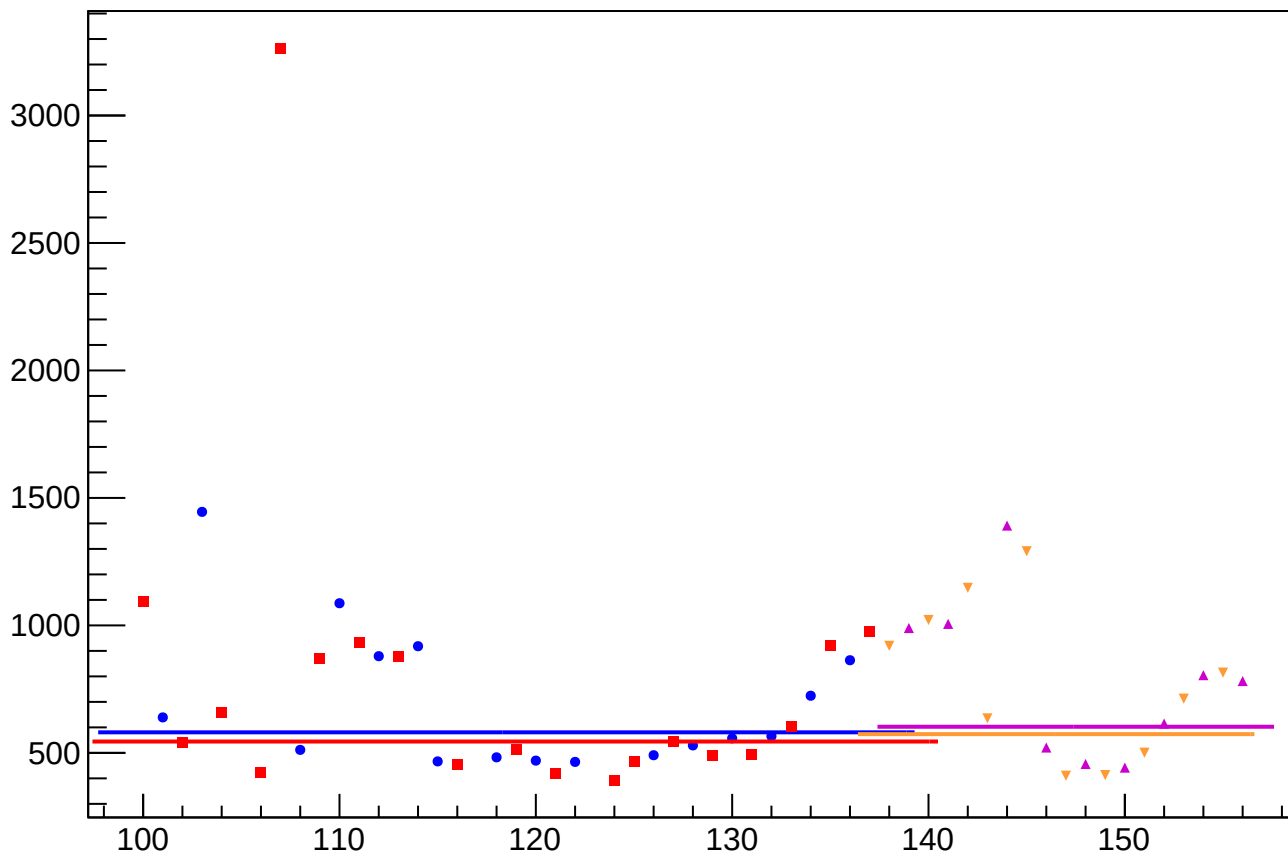
Right: -108.459+/-159.882 χ^2/NDF : 36.7/34

In: -43.757+/-163.001 χ^2/NDF :19.8/24

Out: -139.082+/-156.708 χ^2/NDF :35.8/28

All: -93.295+/-112.969 χ^2/NDF : 55.7/53

asym_at1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 580.611+/-0.163 χ^2/NDF : 1003410.8/15

Left Out: 573.487+/-0.156 χ^2/NDF :1978962.2/9

Right Out: 544.530+/-0.157 χ^2/NDF : 1287643.0/18

Left In: 602.493+/-0.163 χ^2/NDF :1743976.8/8

Left: 587.388+/-0.113 χ^2/NDF : 3739416.8/18

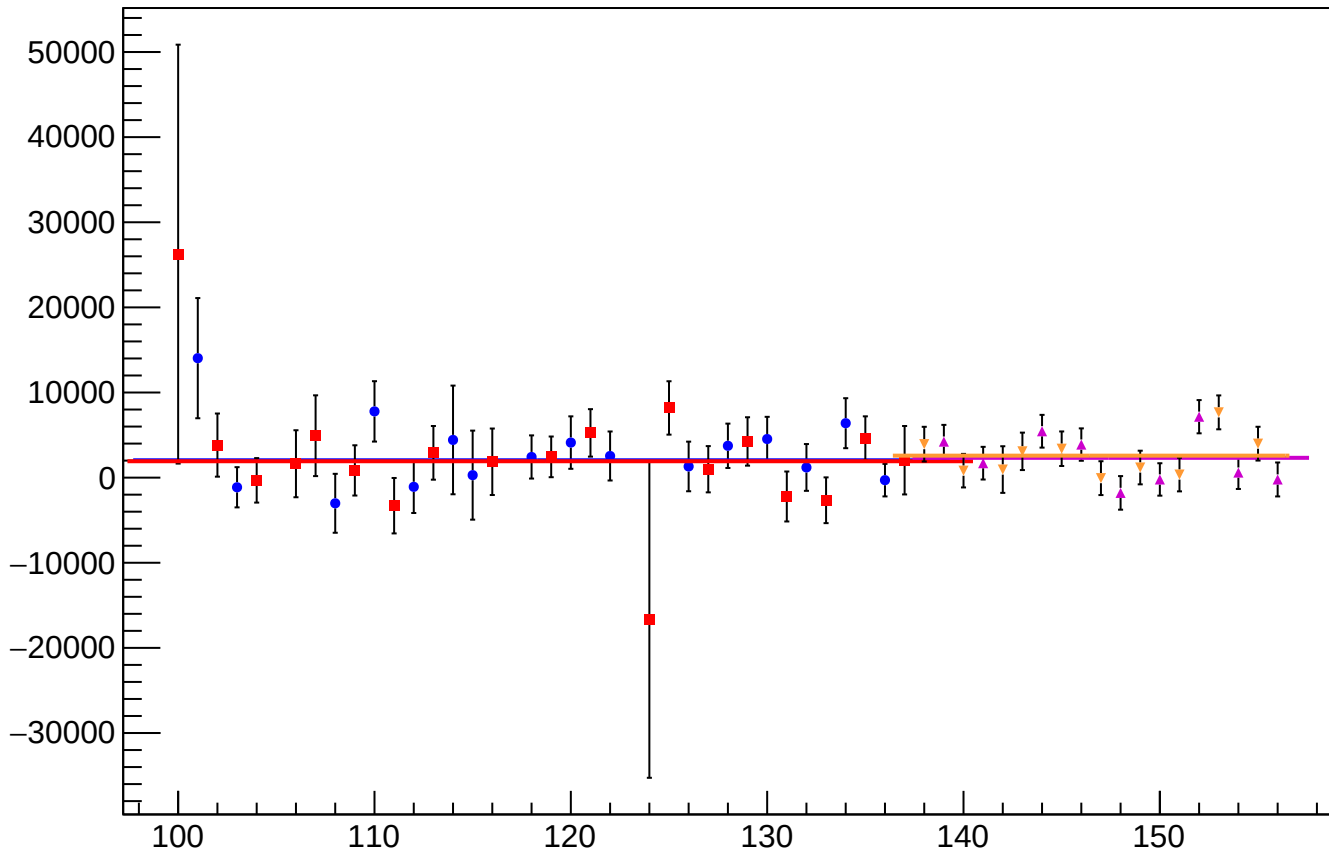
Right: 561.900+/-0.113 χ^2/NDF : 2316481.8/34

In: 591.544+/-0.115 χ^2/NDF :2756398.8/24

Out: 559.061+/-0.111 χ^2/NDF :3283677.5/28

All: 574.663+/-0.080 χ^2/NDF : 6081351.1/53

cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2582.915+/-651.966 χ^2/NDF : 12.4/9

Right Out: 1926.264+/-737.411 χ^2/NDF : 18.4/18

Left In: 2327.575+/-646.471 χ^2/NDF : 19.0/8

Left: 2454.165+/-459.055 χ^2/NDF : 31.5/18

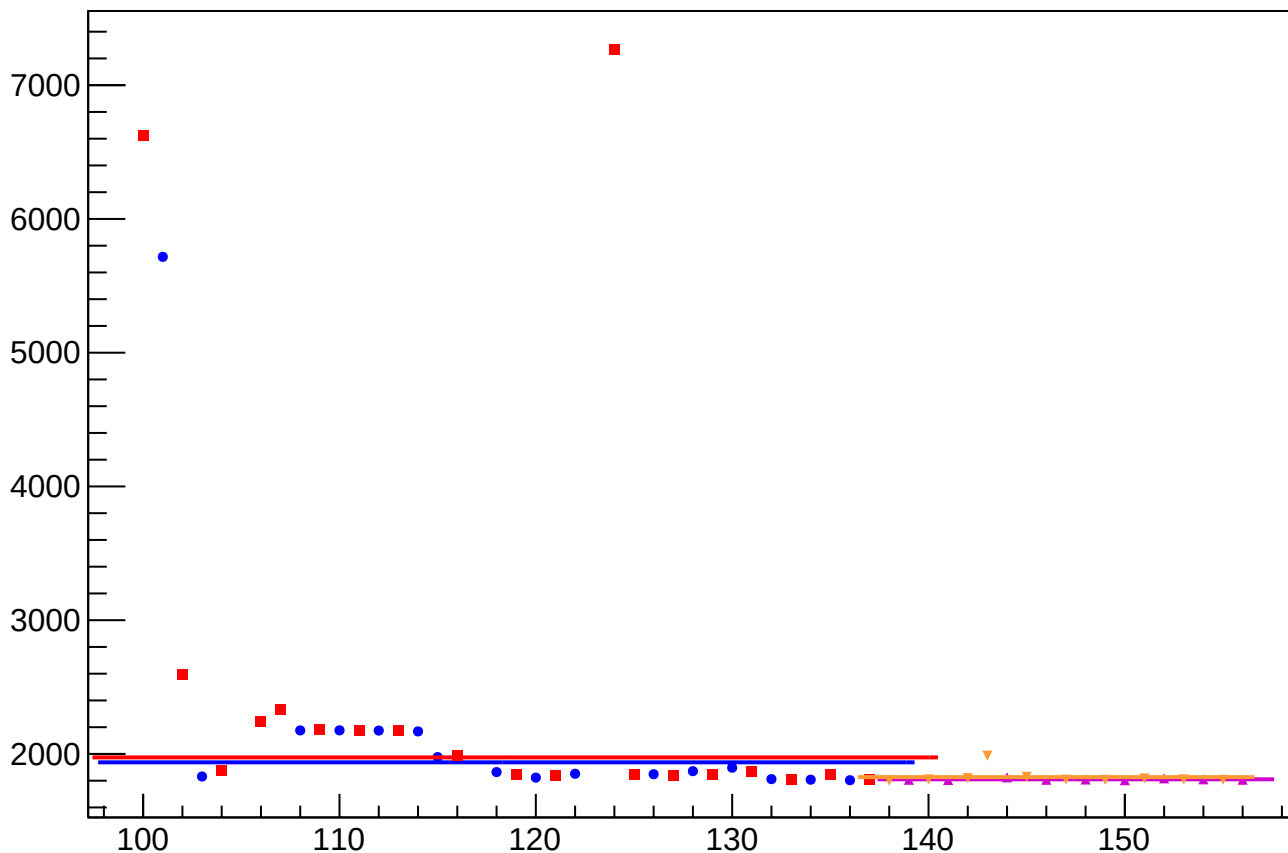
Right: 1982.645+/-521.003 χ^2/NDF : 34.9/34

In: 2201.869+/-485.771 χ^2/NDF : 35.6/24

Out: 2294.820+/-488.438 χ^2/NDF : 31.2/28

All: 2248.090+/-344.431 χ^2/NDF : 66.8/53

cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1826.681+/-0.461 χ^2/NDF :11916.6/9

Right Out: 1974.155+/-0.521 χ^2/NDF : 380430.7/18

Left In: 1810.400+/-0.457 χ^2/NDF :200.0/8

Left: 1818.471+/-0.325 χ^2/NDF : 12745.5/18

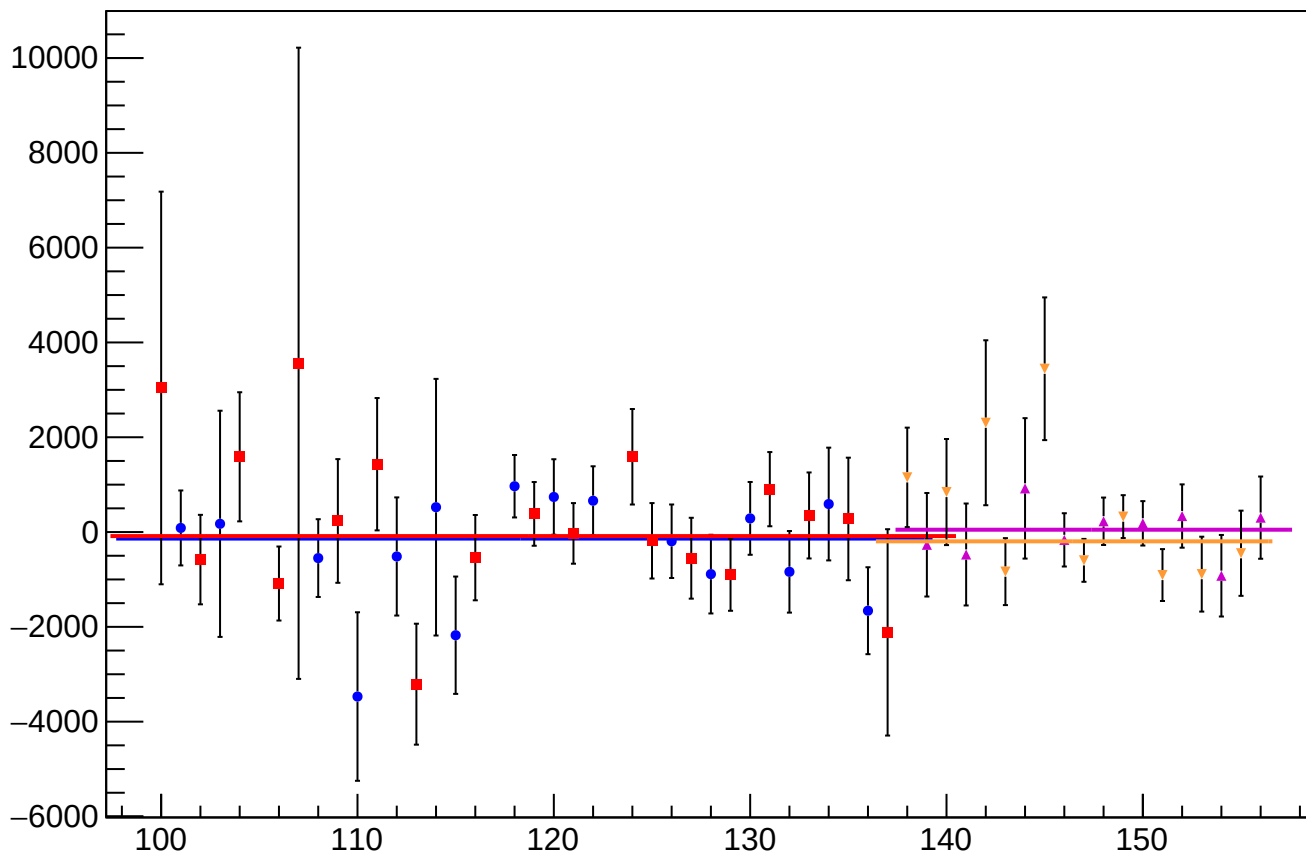
Right: 1955.673+/-0.368 χ^2/NDF : 1021031.8/34

In: 1865.627+/-0.343 χ^2/NDF :671818.4/24

Out: 1891.383+/-0.345 χ^2/NDF :437243.9/28

All: 1878.434+/-0.244 χ^2/NDF : 1111858.1/53

asym_at1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -137.491+/-230.382 χ^2/NDF : 16.9/15

Left Out: -195.738+/-221.221 χ^2/NDF : 15.9/9

Right Out: -84.947+/-221.881 χ^2/NDF : 19.3/18

Left In: 49.294+/-230.608 χ^2/NDF : 2.6/8

Left: -78.311+/-159.642 χ^2/NDF : 19.1/18

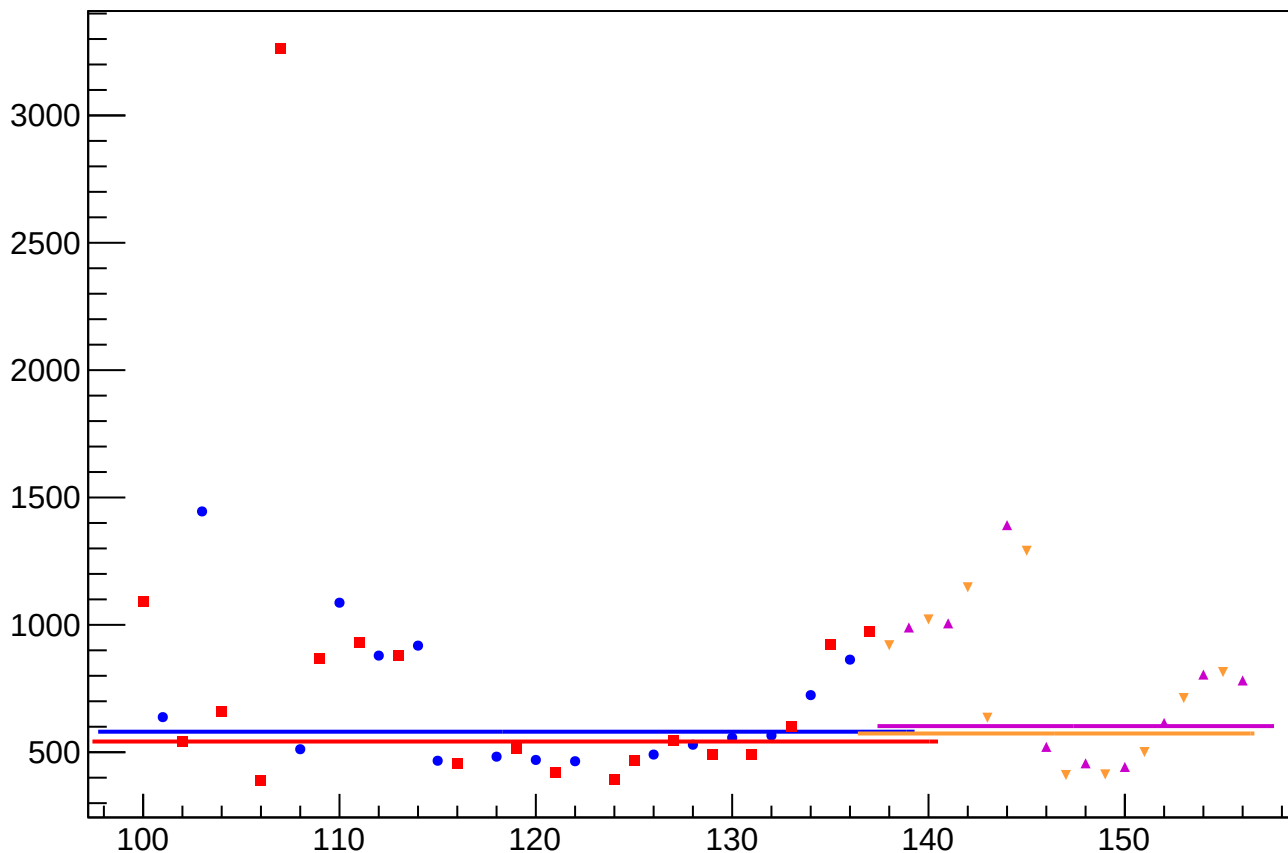
Right: -110.232+/-159.814 χ^2/NDF : 36.2/34

In: -44.190+/-162.985 χ^2/NDF : 19.8/24

Out: -140.508+/-156.659 χ^2/NDF : 35.3/28

All: -94.254+/-112.945 χ^2/NDF : 55.3/53

asym_at1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 580.519+/-0.163 χ^2/NDF : 1002900.5/15

Left Out: 573.484+/-0.156 χ^2/NDF :1978964.7/9

Right Out: 541.939+/-0.157 χ^2/NDF : 1318850.5/18

Left In: 602.497+/-0.163 χ^2/NDF :1743993.2/8

Left: 587.388+/-0.113 χ^2/NDF : 3739443.4/18

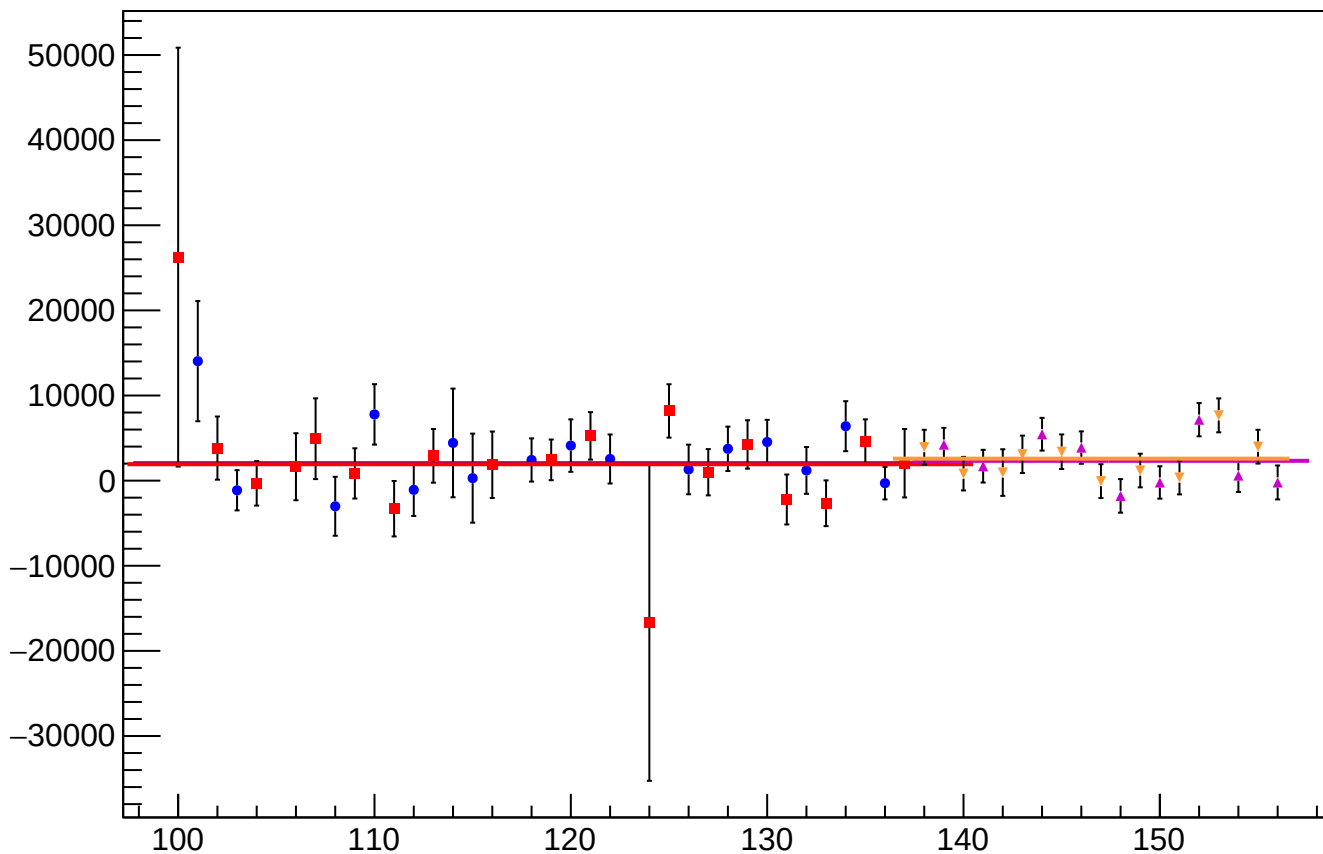
Right: 560.504+/-0.113 χ^2/NDF : 2350848.1/34

In: 591.497+/-0.115 χ^2/NDF :2755985.4/24

Out: 557.758+/-0.111 χ^2/NDF :3318088.2/28

All: 573.960+/-0.080 χ^2/NDF : 6118619.9/53

eigen_cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842 $\pm$ 736.211 χ^2 /NDF: 16.4/15

Left Out: 2582.915 $\pm$ 651.966 χ^2 /NDF:12.4/9

Right Out: 1926.264 $\pm$ 737.411 χ^2 /NDF: 18.4/18

Left In: 2327.575 $\pm$ 646.471 χ^2 /NDF:19.0/8

Left: 2454.165 $\pm$ 459.055 χ^2 /NDF: 31.5/18

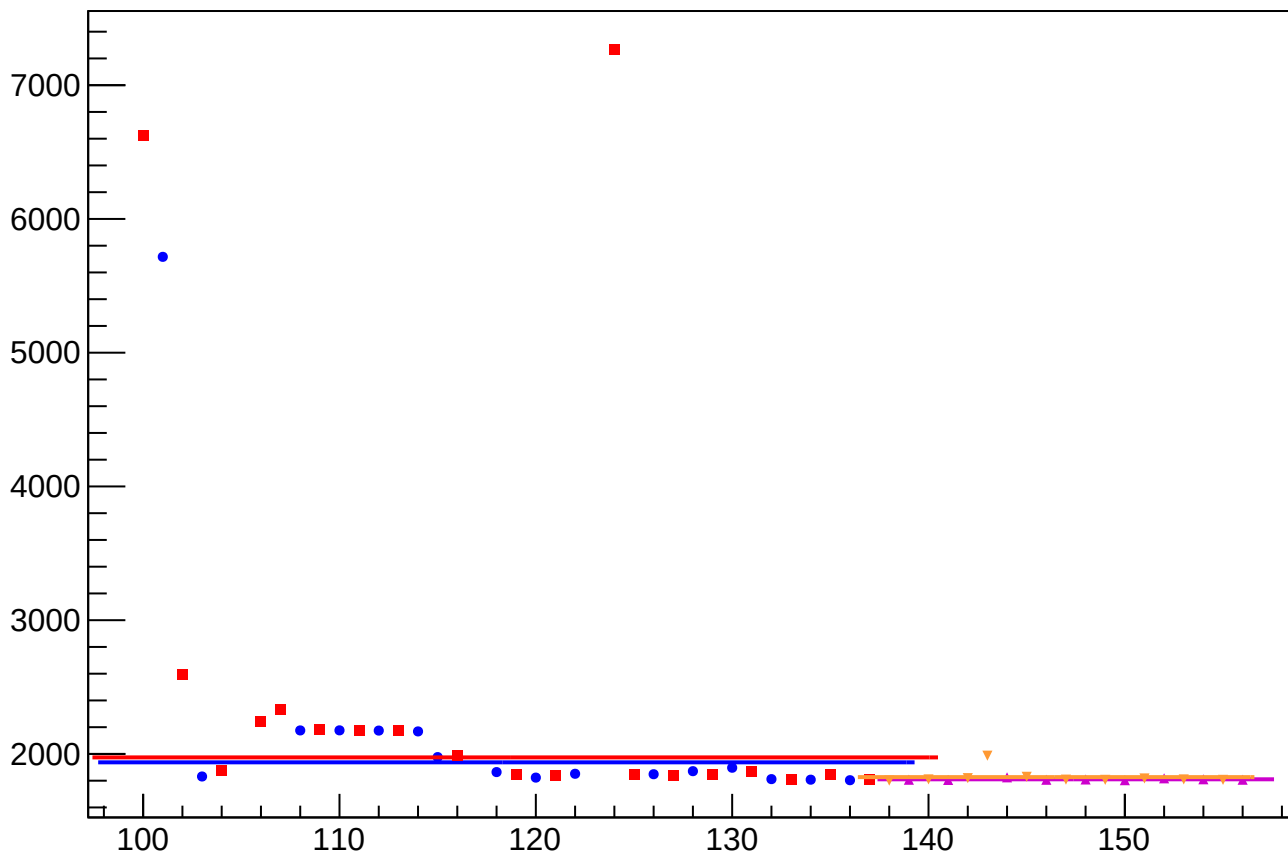
Right: 1982.645 $\pm$ 521.003 χ^2 /NDF: 34.9/34

In: 2201.869 $\pm$ 485.771 χ^2 /NDF:35.6/24

Out: 2294.820 $\pm$ 488.438 χ^2 /NDF:31.2/28

All: 2248.090 $\pm$ 344.431 χ^2 /NDF: 66.8/53

eigen_cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1826.681+/-0.461 χ^2/NDF :11916.6/9

Right Out: 1974.155+/-0.521 χ^2/NDF : 380430.7/18

Left In: 1810.400+/-0.457 χ^2/NDF :200.0/8

Left: 1818.471+/-0.325 χ^2/NDF : 12745.5/18

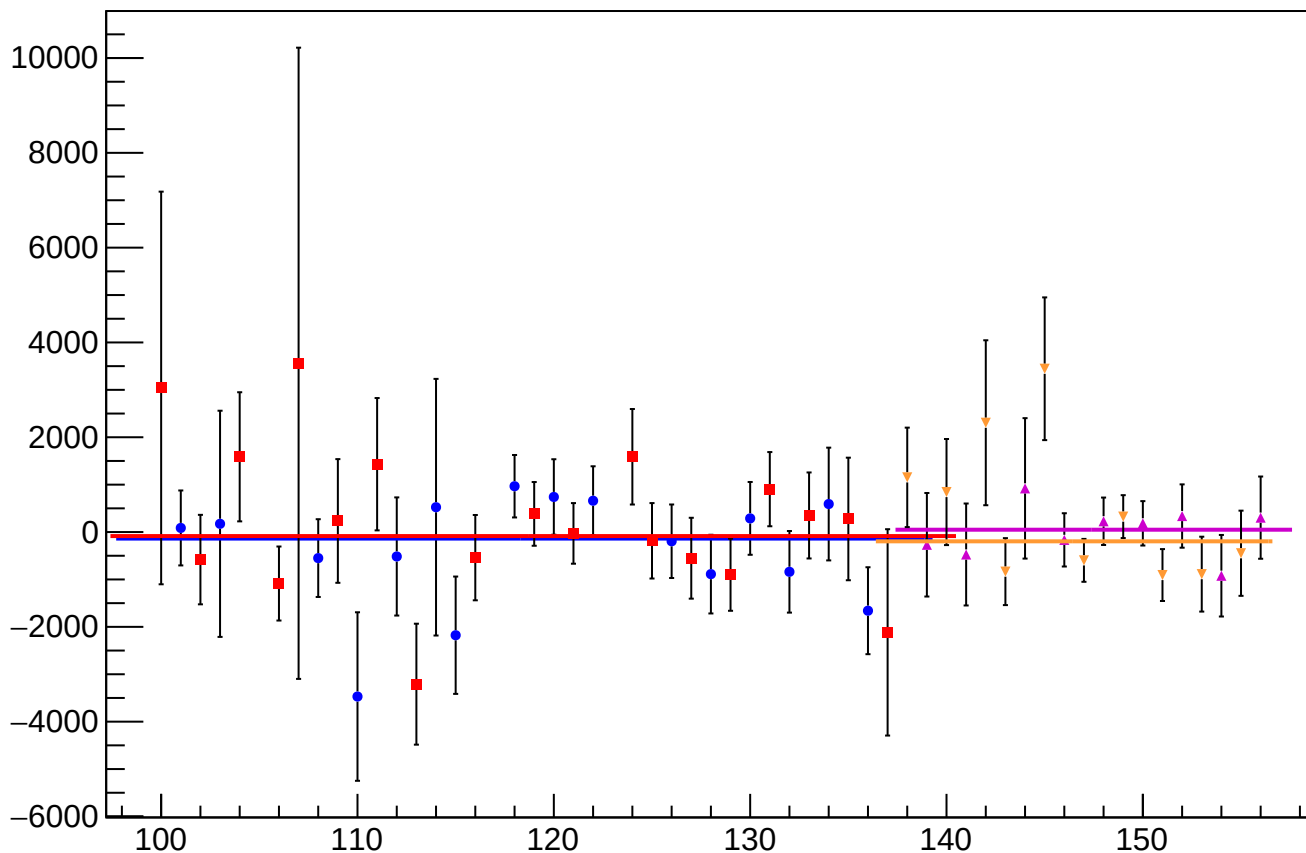
Right: 1955.673+/-0.368 χ^2/NDF : 1021031.8/34

In: 1865.627+/-0.343 χ^2/NDF :671818.4/24

Out: 1891.383+/-0.345 χ^2/NDF :437243.9/28

All: 1878.434+/-0.244 χ^2/NDF : 1111858.1/53

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: -195.738+/-221.221 χ^2/NDF : 15.9/9

Right Out: -84.947+/-221.881 χ^2/NDF : 19.3/18

Left In: 49.294+/-230.608 χ^2/NDF : 2.6/8

Left: -78.311+/-159.642 χ^2/NDF : 19.1/18

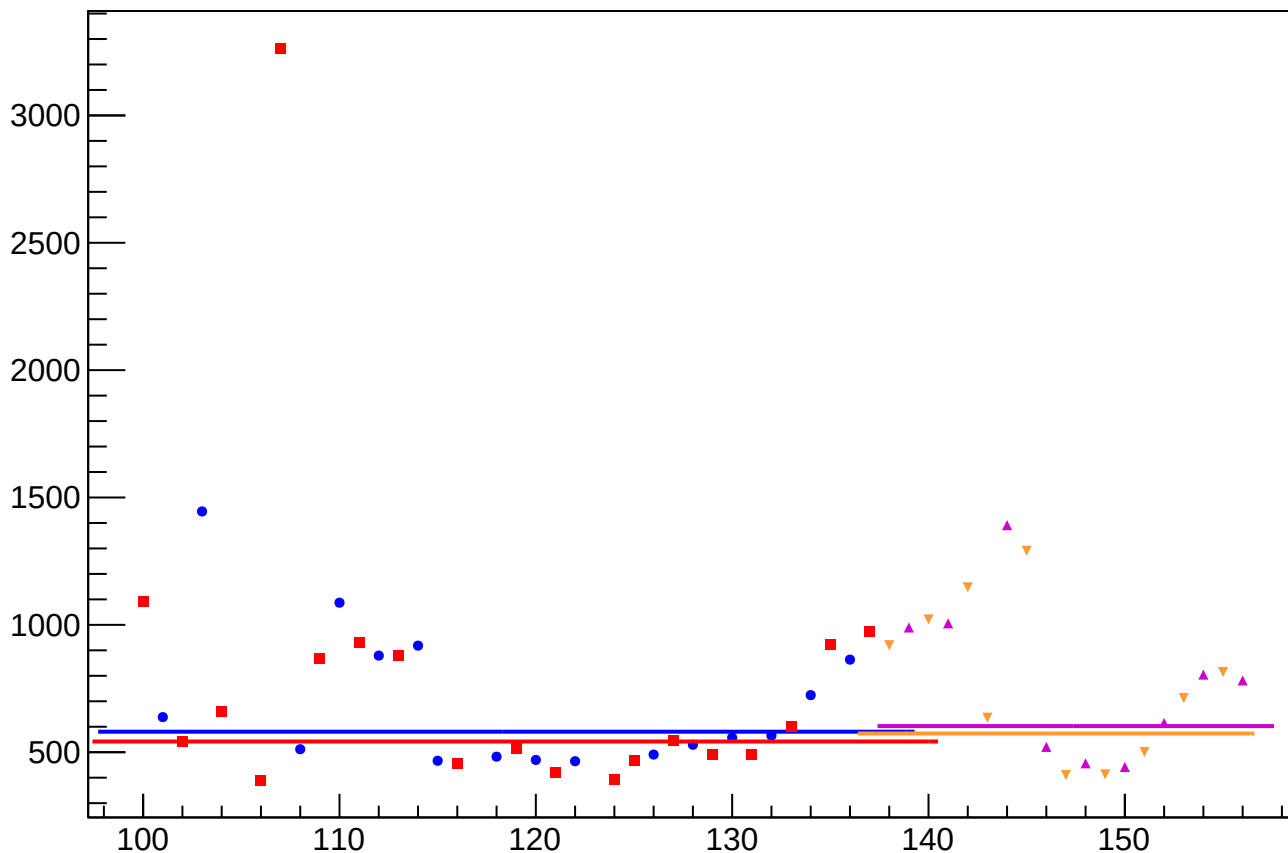
Right: -110.232+/-159.814 χ^2/NDF : 36.2/34

In: -44.190+/-162.985 χ^2/NDF : 19.8/24

Out: -140.508+/-156.659 χ^2/NDF : 35.3/28

All: -94.254+/-112.945 χ^2/NDF : 55.3/53

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: 573.484 $\pm$ 0.156 χ^2/NDF : 1978964.7/9

Right Out: 541.939 $\pm$ 0.157 χ^2/NDF : 1318850.5/18

Left In: 602.497 $\pm$ 0.163 χ^2/NDF : 1743993.2/8

Left: 587.388 $\pm$ 0.113 χ^2/NDF : 3739443.4/18

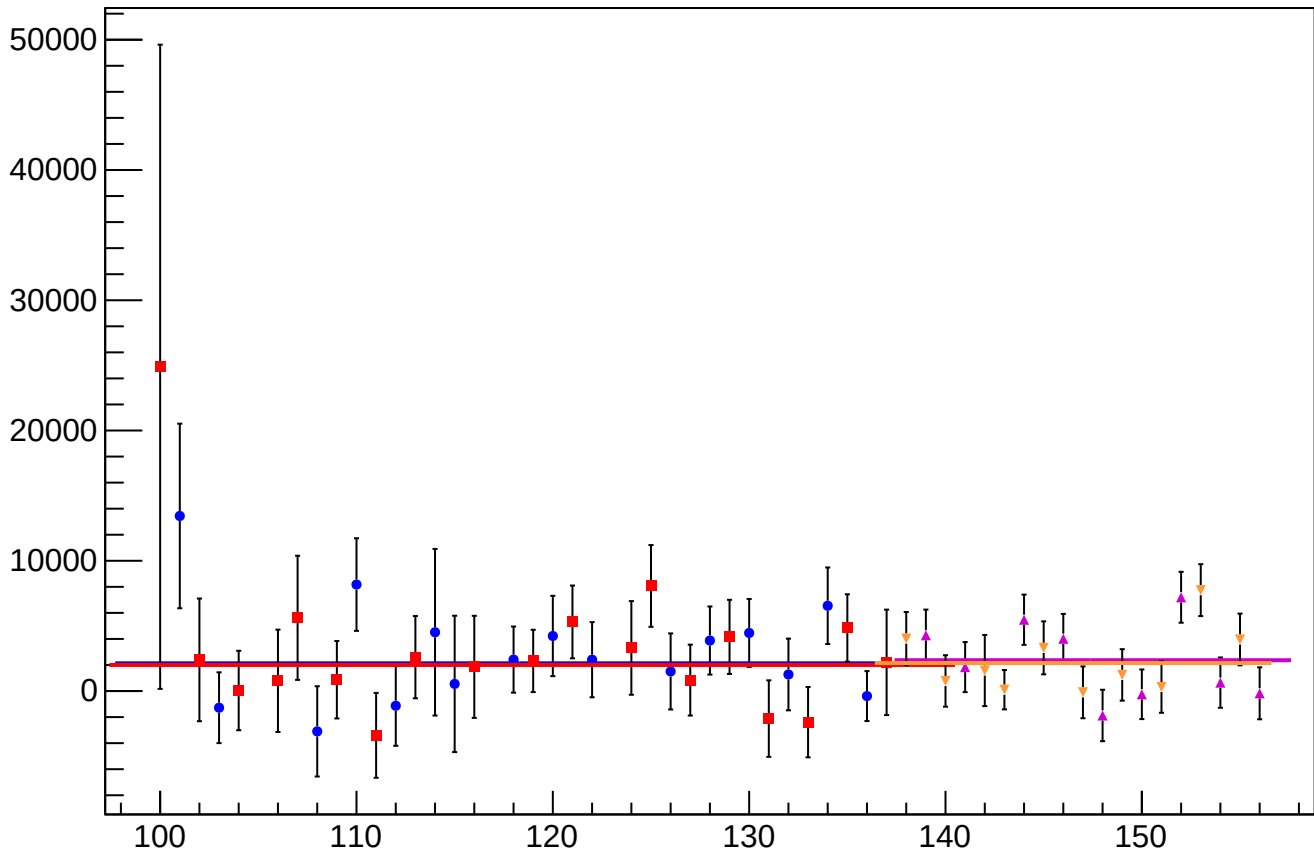
Right: 560.504 $\pm$ 0.113 χ^2/NDF : 2350848.1/34

In: 591.497 $\pm$ 0.115 χ^2/NDF : 2755985.4/24

Out: 557.758 $\pm$ 0.111 χ^2/NDF : 3318088.2/28

All: 573.960 $\pm$ 0.080 χ^2/NDF : 6118619.9/53

dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.748 $\pm$ 746.242 χ^2 /NDF: 16.5/15

Left Out: 2149.346 $\pm$ 622.535 χ^2 /NDF: 14.6/9

Right Out: 2002.220 $\pm$ 737.195 χ^2 /NDF: 16.7/18

Left In: 2365.918 $\pm$ 647.266 χ^2 /NDF: 19.4/8

Left: 2253.415 $\pm$ 448.687 χ^2 /NDF: 34.1/18

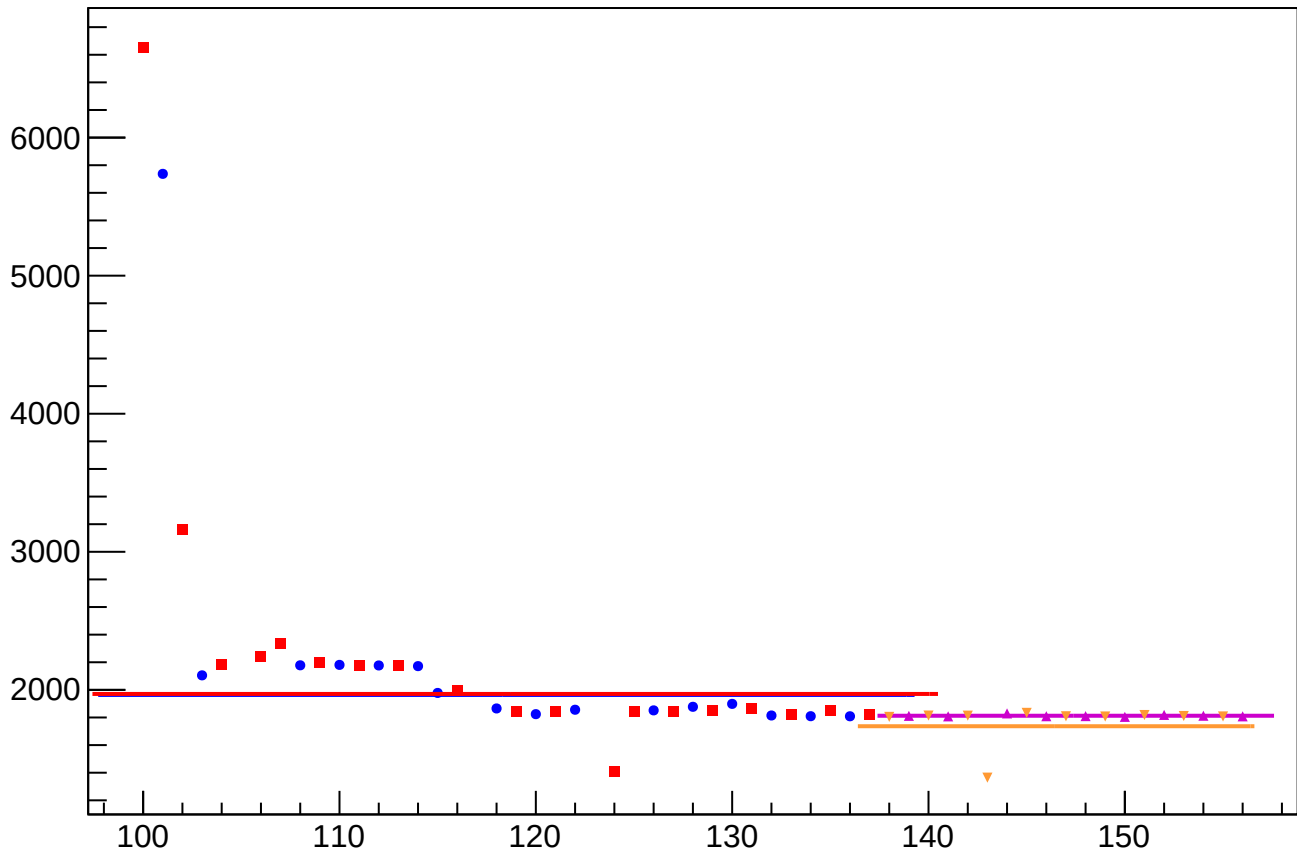
Right: 2064.712 $\pm$ 524.445 χ^2 /NDF: 33.3/34

In: 2264.094 $\pm$ 488.962 χ^2 /NDF: 36.0/24

Out: 2088.102 $\pm$ 475.631 χ^2 /NDF: 31.4/28

All: 2173.666 $\pm$ 340.938 χ^2 /NDF: 67.4/53

dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640254.1/15

Left Out: 1736.637+/-0.440 χ^2/NDF :146867.3/9

Right Out: 1970.459+/-0.521 χ^2/NDF : 345133.0/18

Left In: 1812.591+/-0.458 χ^2/NDF :241.2/8

Left: 1773.135+/-0.317 χ^2/NDF : 161414.9/18

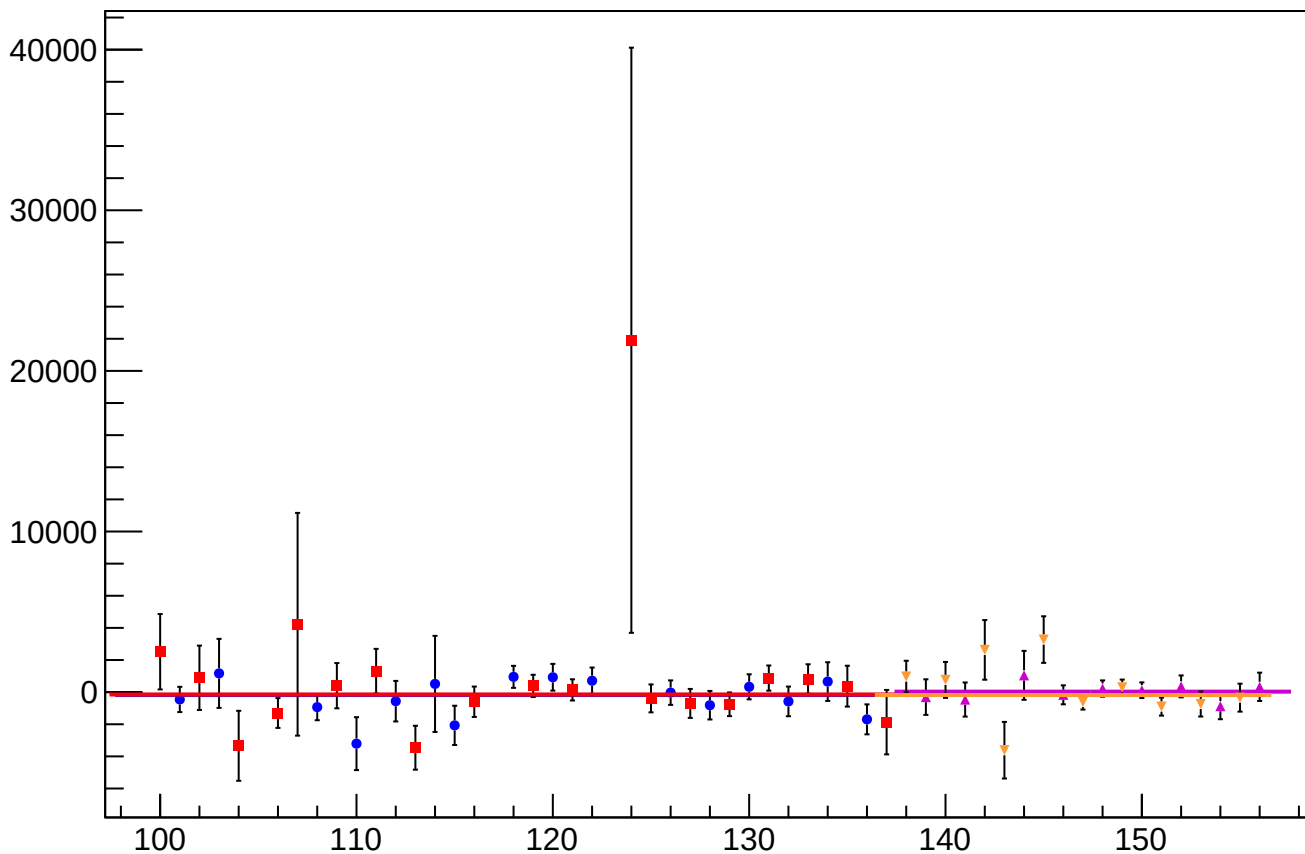
Right: 1966.980+/-0.371 χ^2/NDF : 985477.3/34

In: 1877.344+/-0.346 χ^2/NDF :687117.8/24

Out: 1833.970+/-0.336 χ^2/NDF :609449.8/28

All: 1855.058+/-0.241 χ^2/NDF : 1304653.9/53

asym_at1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.774 ± 236.912 χ^2/NDF : 17.2/15

Left Out: -180.556 ± 236.454 χ^2/NDF : 17.9/9

Right Out: -147.489 ± 242.848 χ^2/NDF : 20.1/18

Left In: 30.839 ± 235.171 χ^2/NDF : 2.6/8

Left: -74.284 ± 166.743 χ^2/NDF : 20.9/18

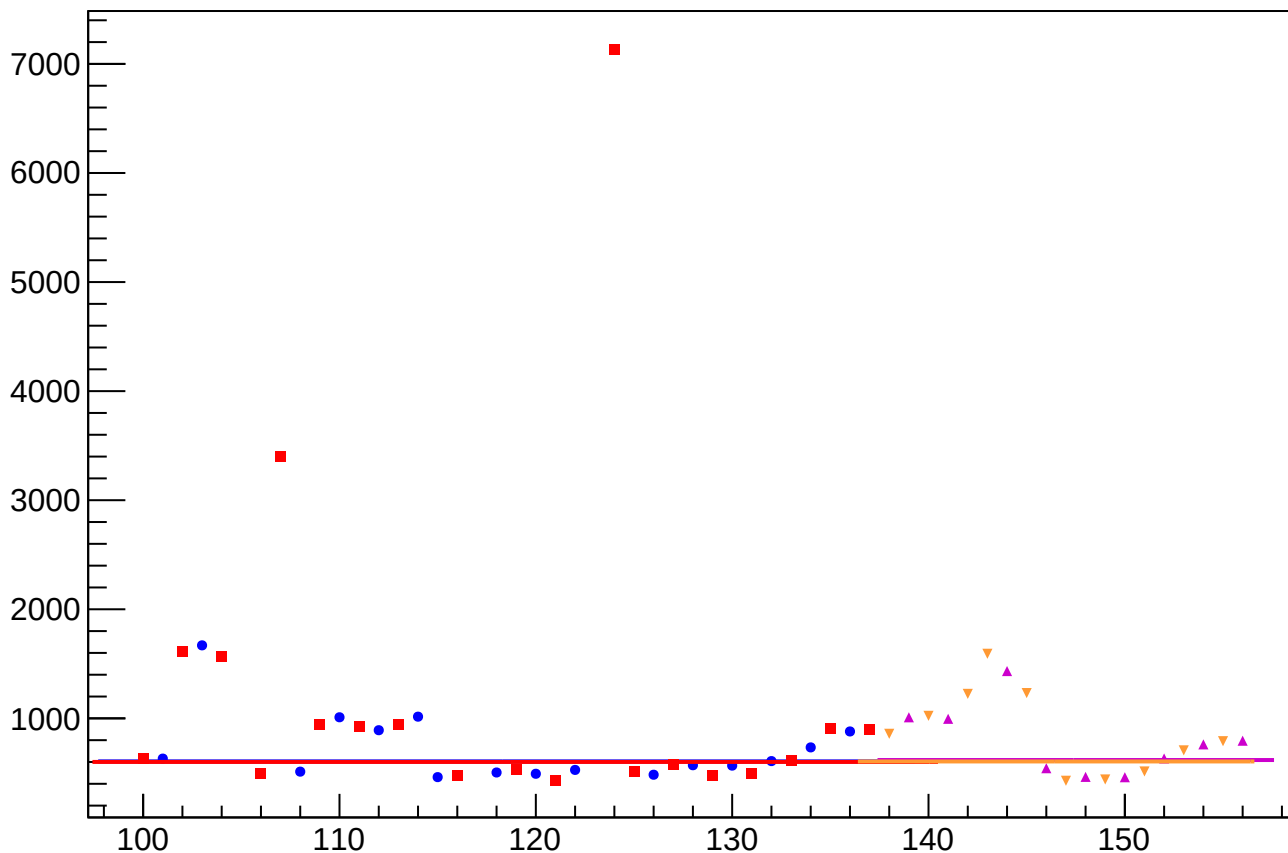
Right: -159.420 ± 169.582 χ^2/NDF : 37.3/34

In: -69.224 ± 166.903 χ^2/NDF : 20.2/24

Out: -164.464 ± 169.413 χ^2/NDF : 38.0/28

All: -116.133 ± 118.896 χ^2/NDF : 58.4/53

asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 605.430+/-0.168 χ^2/NDF : 1162454.5/15

Left Out: 604.951+/-0.167 χ^2/NDF : 2332948.3/9

Right Out: 600.447+/-0.172 χ^2/NDF : 2328523.8/18

Left In: 617.886+/-0.166 χ^2/NDF : 1650526.6/8

Left: 611.454+/-0.118 χ^2/NDF : 3986483.7/18

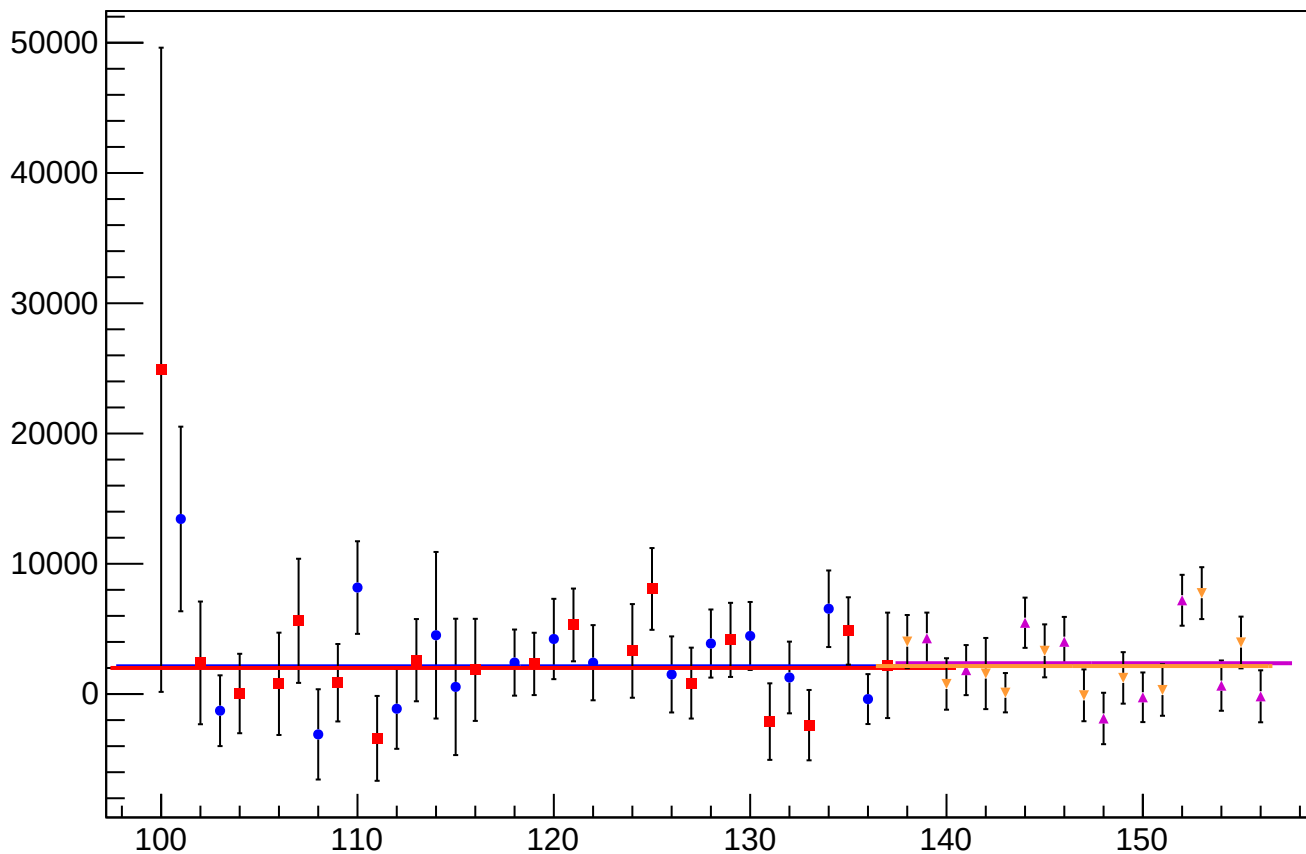
Right: 603.000+/-0.120 χ^2/NDF : 3491409.7/34

In: 611.704+/-0.118 χ^2/NDF : 2815766.1/24

Out: 602.759+/-0.120 χ^2/NDF : 4661825.4/28

All: 607.298+/-0.084 χ^2/NDF : 7480420.7/53

eigen_dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.746 $\pm$ 746.242 χ^2 /NDF: 16.5/15

Left Out: 2149.347 $\pm$ 622.535 χ^2 /NDF:14.6/9

Right Out: 2002.218 $\pm$ 737.195 χ^2 /NDF: 16.7/18

Left In: 2365.918 $\pm$ 647.266 χ^2 /NDF:19.4/8

Left: 2253.416 $\pm$ 448.687 χ^2 /NDF: 34.1/18

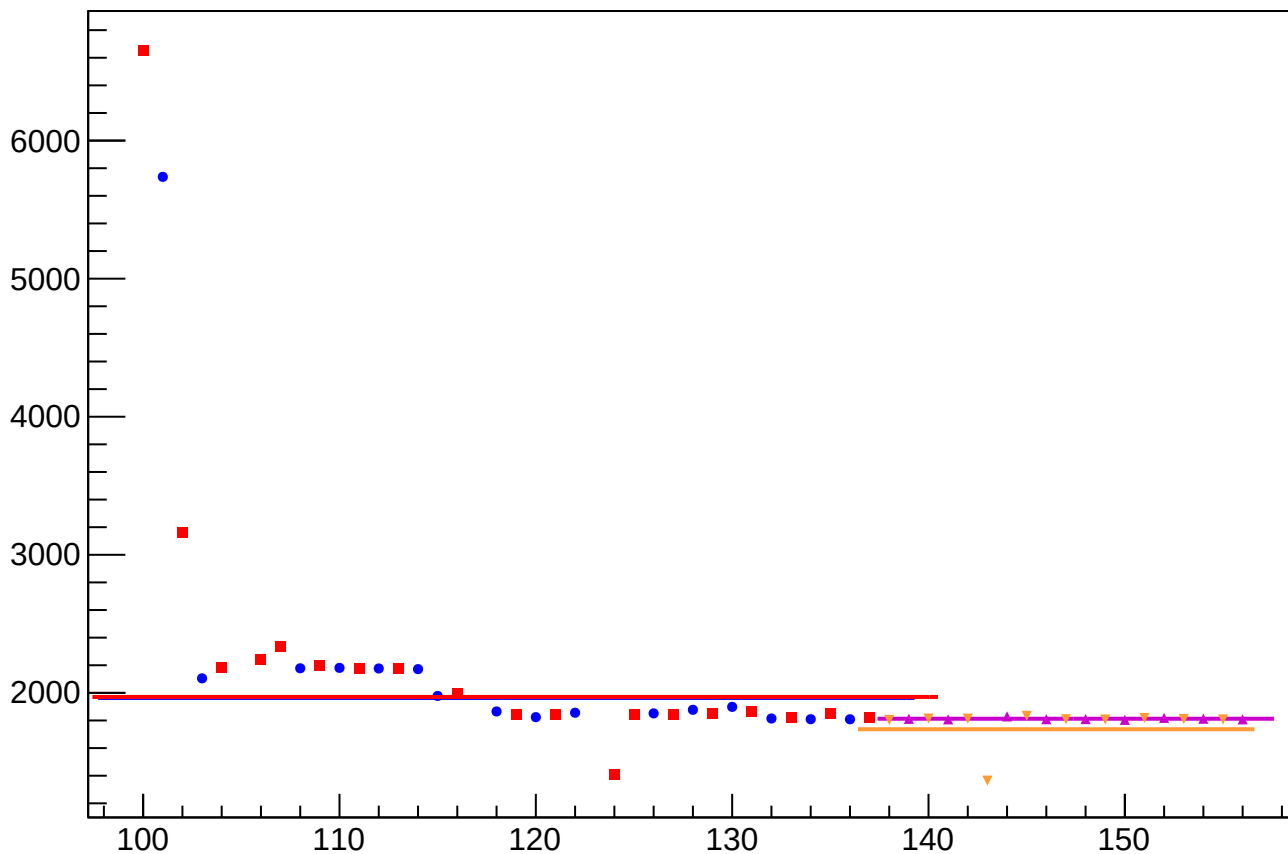
Right: 2064.710 $\pm$ 524.445 χ^2 /NDF: 33.3/34

In: 2264.093 $\pm$ 488.962 χ^2 /NDF:36.0/24

Out: 2088.102 $\pm$ 475.631 χ^2 /NDF:31.4/28

All: 2173.665 $\pm$ 340.938 χ^2 /NDF: 67.4/53

eigen_dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640253.8/15

Left Out: 1736.637+/-0.440 χ^2/NDF : 146867.3/9

Right Out: 1970.459+/-0.521 χ^2/NDF : 345131.7/18

Left In: 1812.591+/-0.458 χ^2/NDF : 241.2/8

Left: 1773.135+/-0.317 χ^2/NDF : 161414.9/18

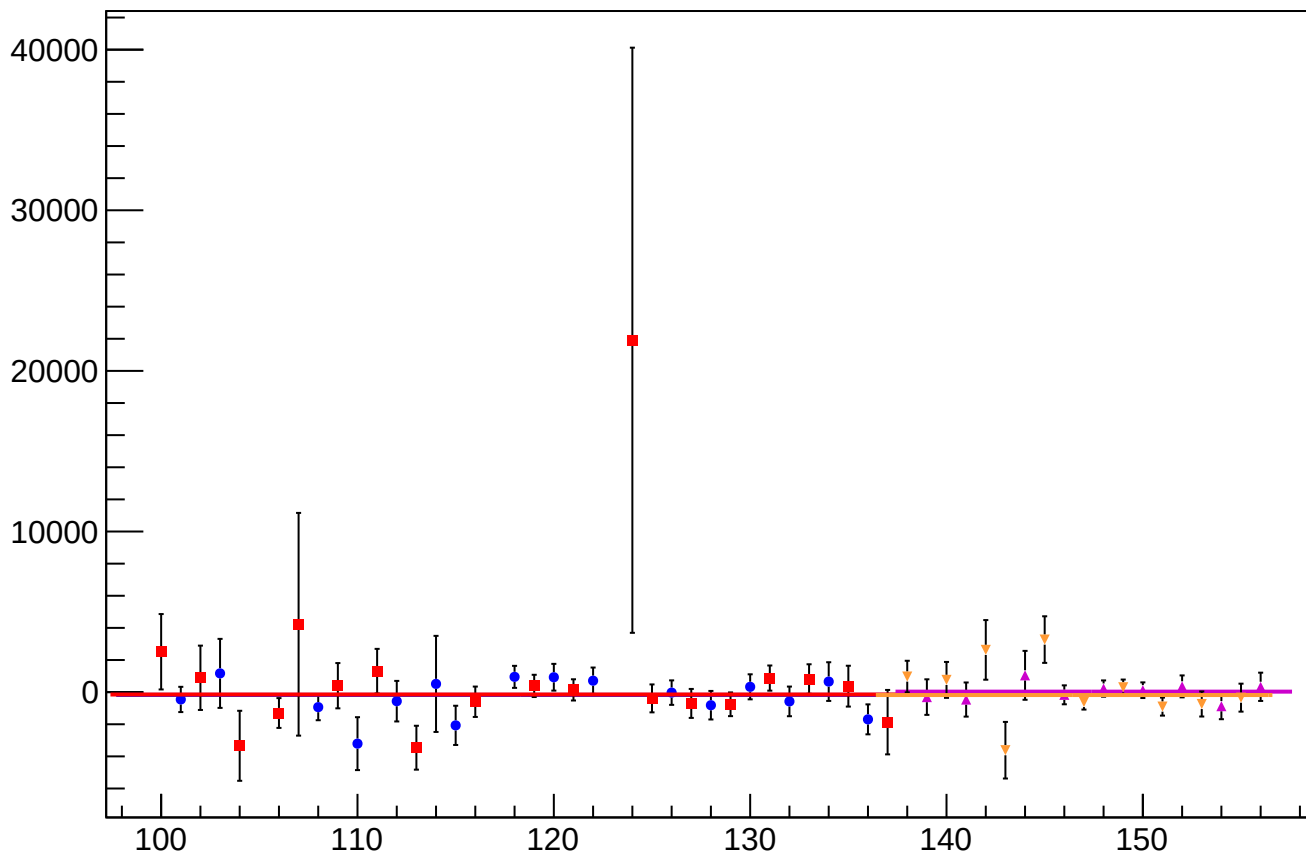
Right: 1966.980+/-0.371 χ^2/NDF : 985475.7/34

In: 1877.344+/-0.346 χ^2/NDF : 687117.3/24

Out: 1833.970+/-0.336 χ^2/NDF : 609448.2/28

All: 1855.058+/-0.241 χ^2/NDF : 1304651.9/53

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.773 ± 236.912 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -180.556 ± 236.454 $\chi^2/\text{NDF}: 17.9/9$

Right Out: -147.489 ± 242.847 $\chi^2/\text{NDF}: 20.1/18$

Left In: 30.839 ± 235.172 $\chi^2/\text{NDF}: 2.6/8$

Left: -74.284 ± 166.743 $\chi^2/\text{NDF}: 20.9/18$

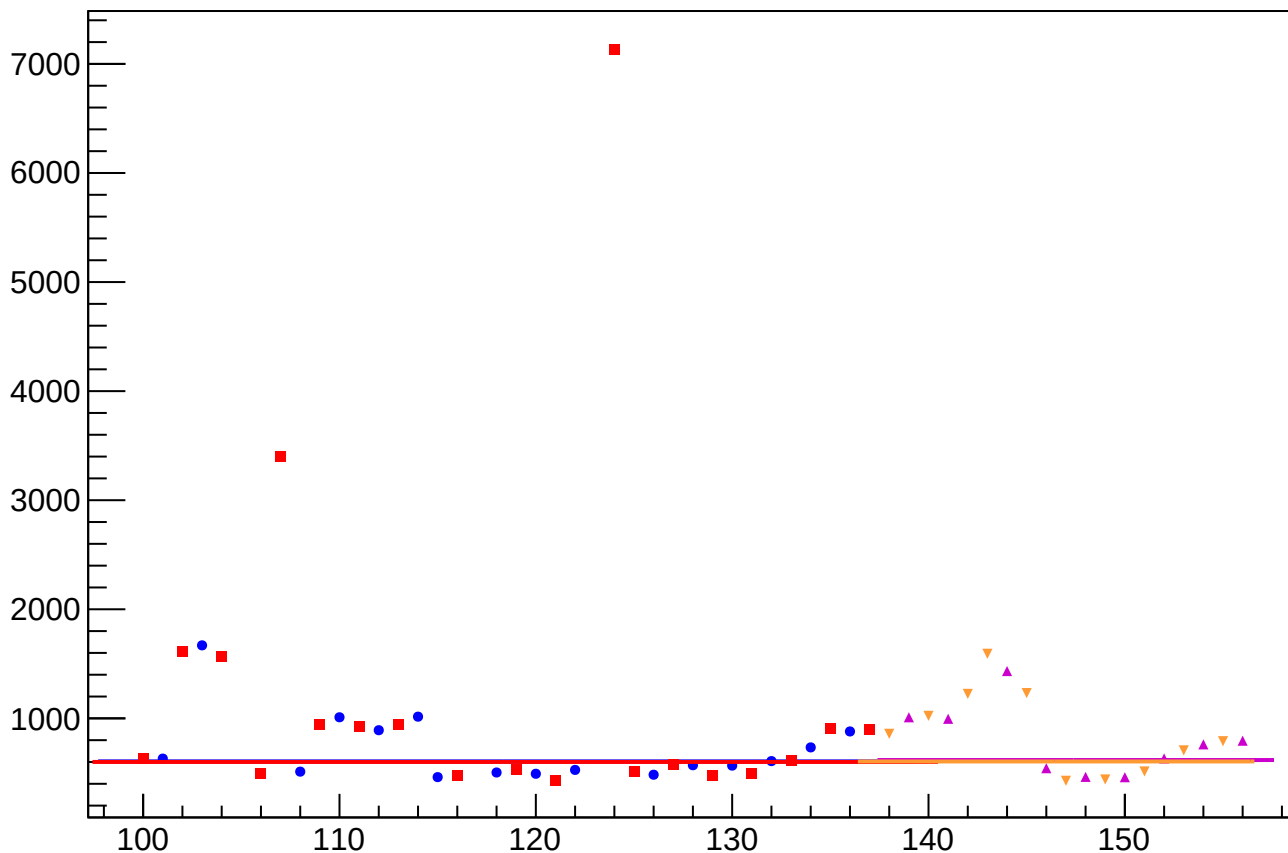
Right: -159.419 ± 169.581 $\chi^2/\text{NDF}: 37.3/34$

In: -69.224 ± 166.903 $\chi^2/\text{NDF}: 20.2/24$

Out: -164.463 ± 169.414 $\chi^2/\text{NDF}: 38.0/28$

All: -116.133 ± 118.896 $\chi^2/\text{NDF}: 58.4/53$

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: 604.953+/-0.167 χ^2/NDF : 2332941.2/9

Right Out: 600.446+/-0.172 χ^2/NDF : 2328531.9/18

Left In: 617.887+/-0.166 χ^2/NDF : 1650521.2/8

Left: 611.455+/-0.118 χ^2/NDF : 3986471.2/18

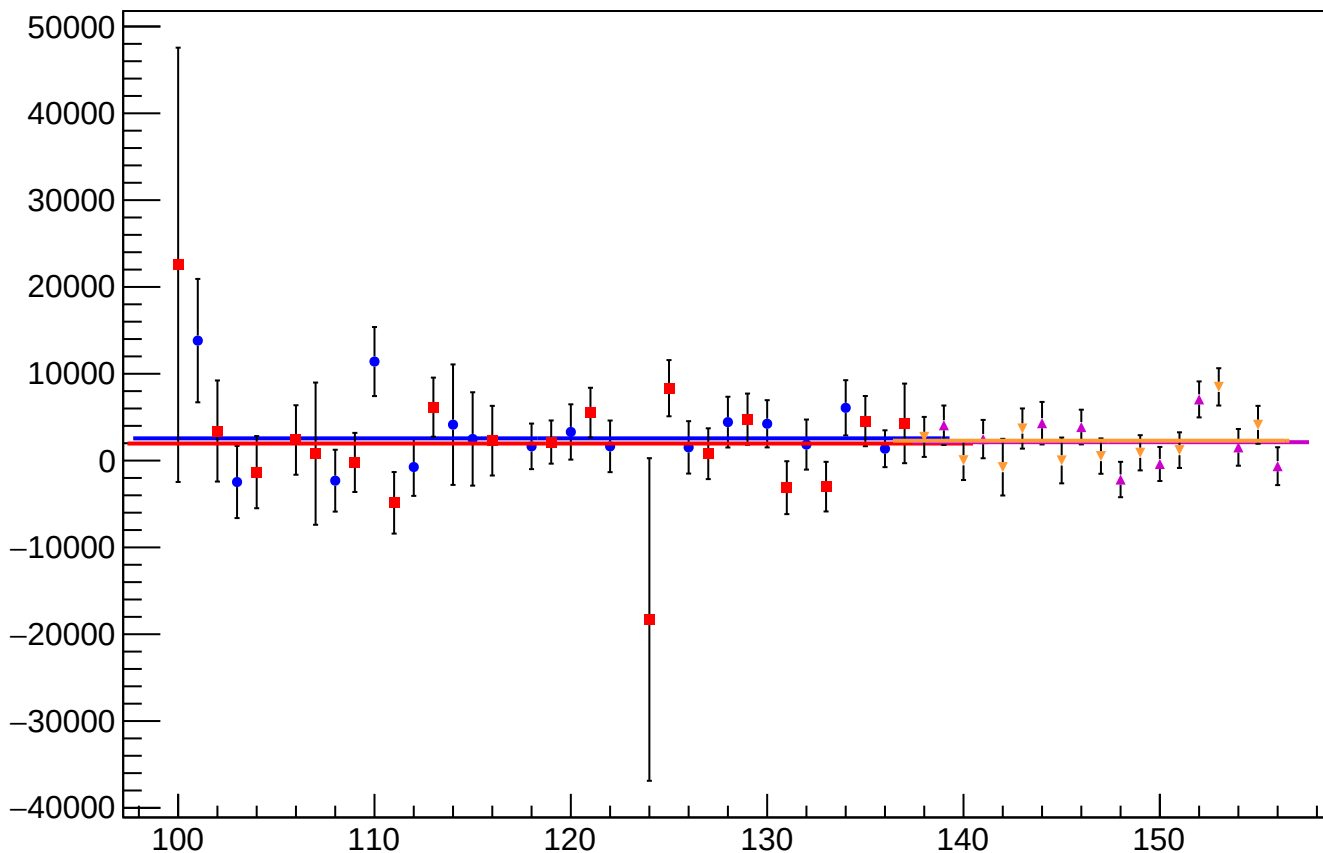
Right: 602.999+/-0.120 χ^2/NDF : 3491425.6/34

In: 611.704+/-0.118 χ^2/NDF : 2815769.6/24

Out: 602.759+/-0.120 χ^2/NDF : 4661826.6/28

All: 607.298+/-0.084 χ^2/NDF : 7480425.4/53

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2560.971+/-809.658 χ^2/NDF : 14.6/15

Left Out: 2290.668+/-715.545 χ^2/NDF :13.5/9

Right Out: 1966.731+/-818.839 χ^2/NDF : 21.6/18

Left In: 2119.009+/-710.241 χ^2/NDF :15.8/8

Left: 2204.200+/-504.081 χ^2/NDF : 29.3/18

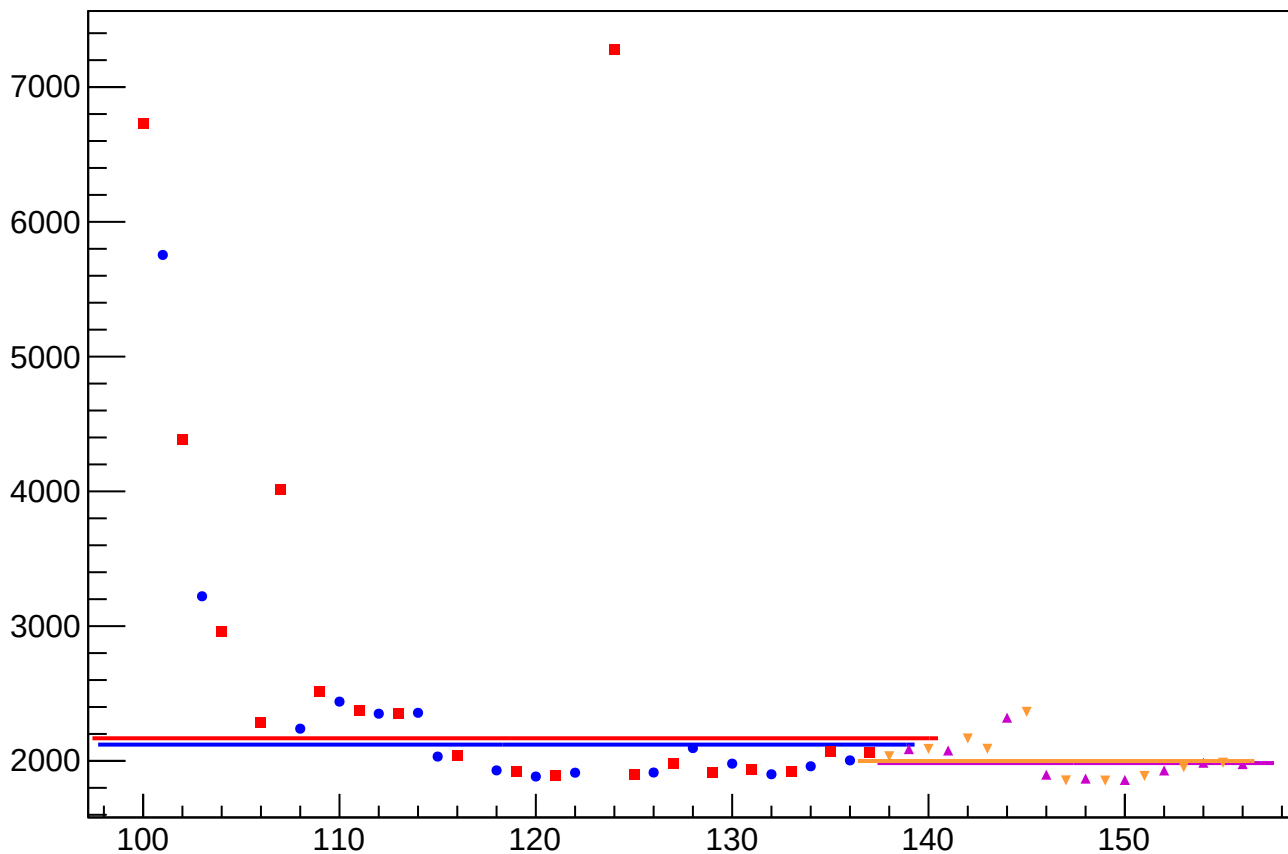
Right: 2267.201+/-575.733 χ^2/NDF : 36.5/34

In: 2311.204+/-533.925 χ^2/NDF :30.5/24

Out: 2150.409+/-538.809 χ^2/NDF :35.2/28

All: 2231.539+/-379.257 χ^2/NDF : 65.8/53

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2120.778 $\pm$ 0.573 χ^2 /NDF: 759969.1/15

Left Out: 1999.081 $\pm$ 0.506 χ^2 /NDF: 77298.0/9

Right Out: 2167.840 $\pm$ 0.579 χ^2 /NDF: 823925.5/18

Left In: 1983.847 $\pm$ 0.502 χ^2 /NDF: 65210.5/8

Left: 1991.408 $\pm$ 0.356 χ^2 /NDF: 142965.2/18

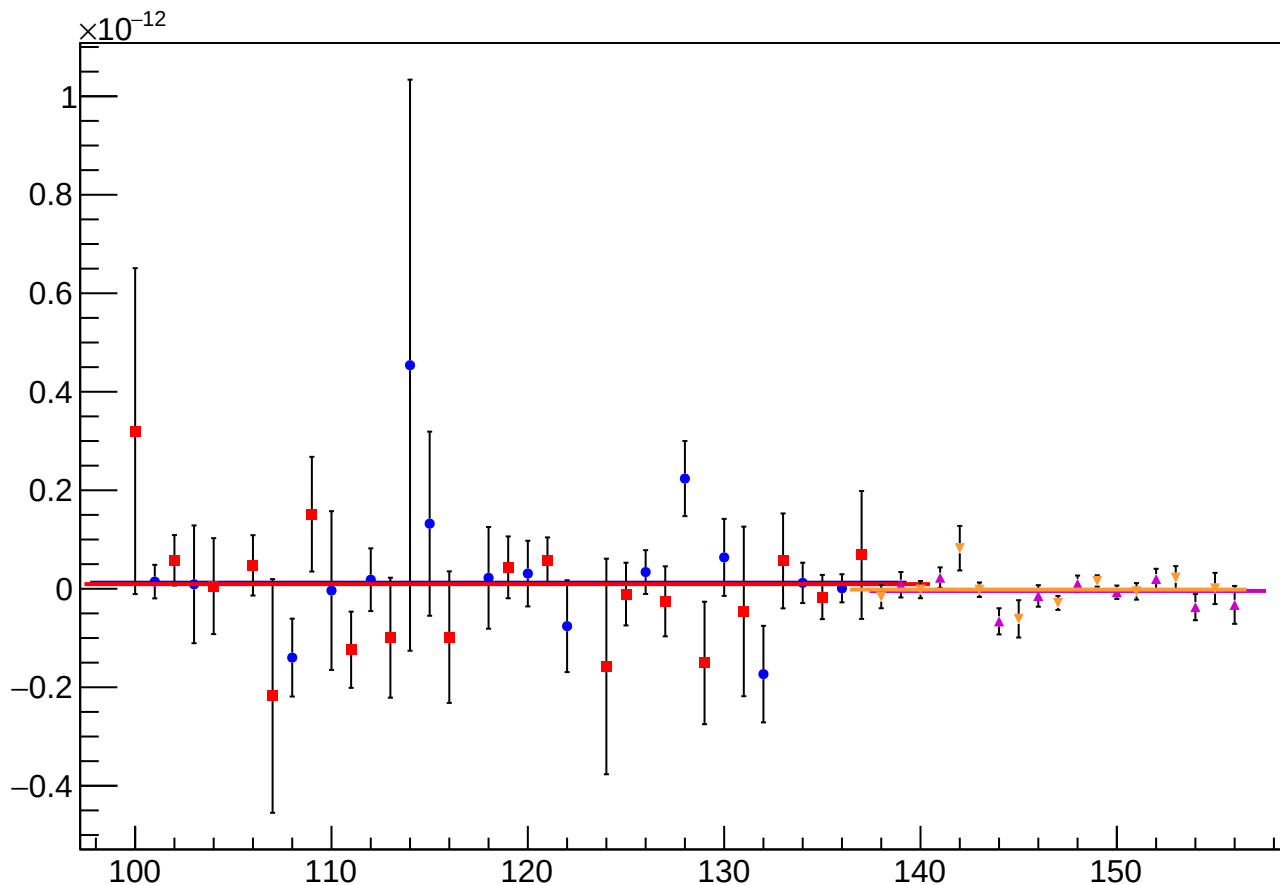
Right: 2144.044 $\pm$ 0.407 χ^2 /NDF: 1587235.2/34

In: 2043.394 $\pm$ 0.378 χ^2 /NDF: 857507.6/24

Out: 2072.151 $\pm$ 0.381 χ^2 /NDF: 949391.8/28

All: 2057.642 $\pm$ 0.268 χ^2 /NDF: 1809773.9/53

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 : 13.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 13.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.7/8

Left: -0.000+/-0.000 χ^2/NDF : 25.1/18

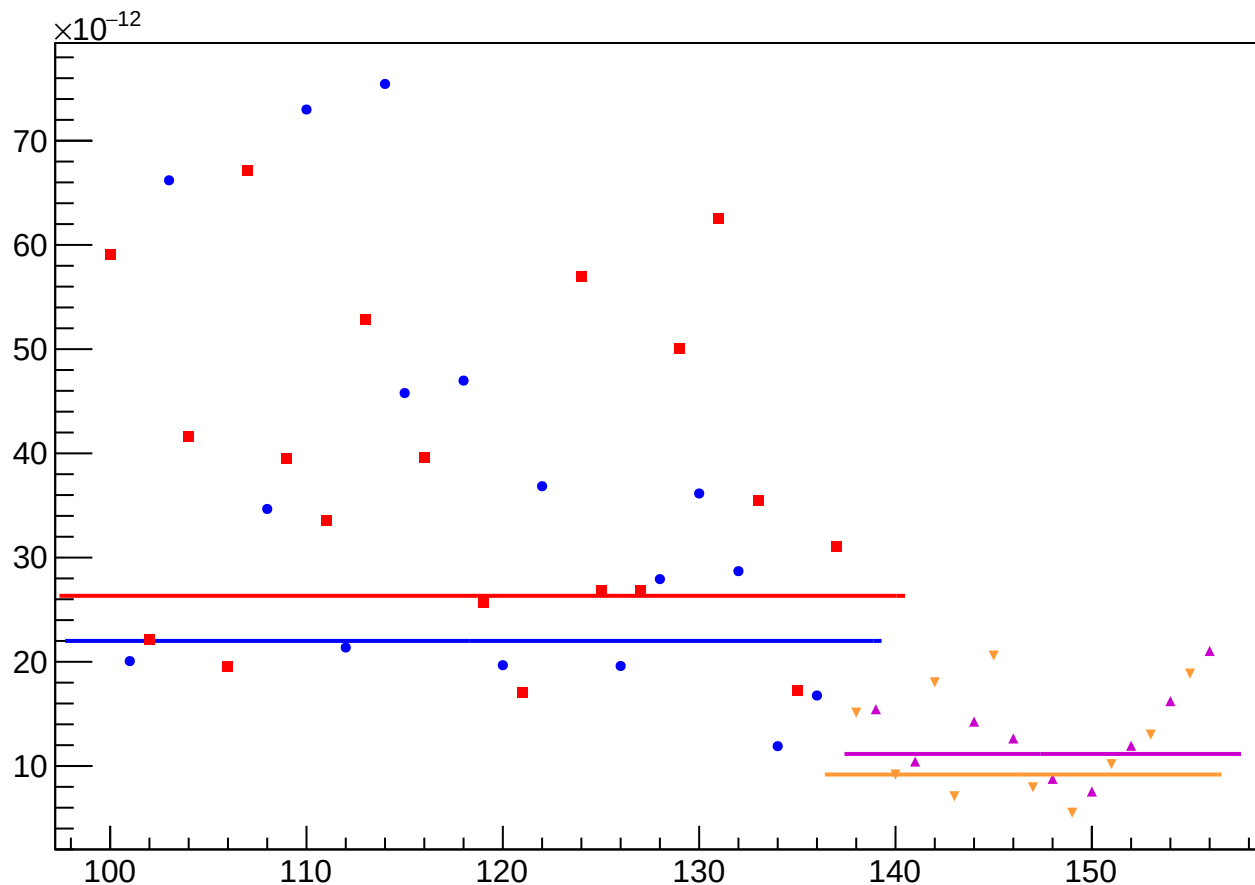
Right: 0.000+/-0.000 χ^2/NDF : 31.6/34

In: -0.000+/-0.000 χ^2/NDF : 30.6/24

Out: -0.000+/-0.000 χ^2/NDF : 27.4/28

All: -0.000+/-0.000 χ^2/NDF : 58.0/53

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 : 886339.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 705211.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 481862.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1463017.4/18

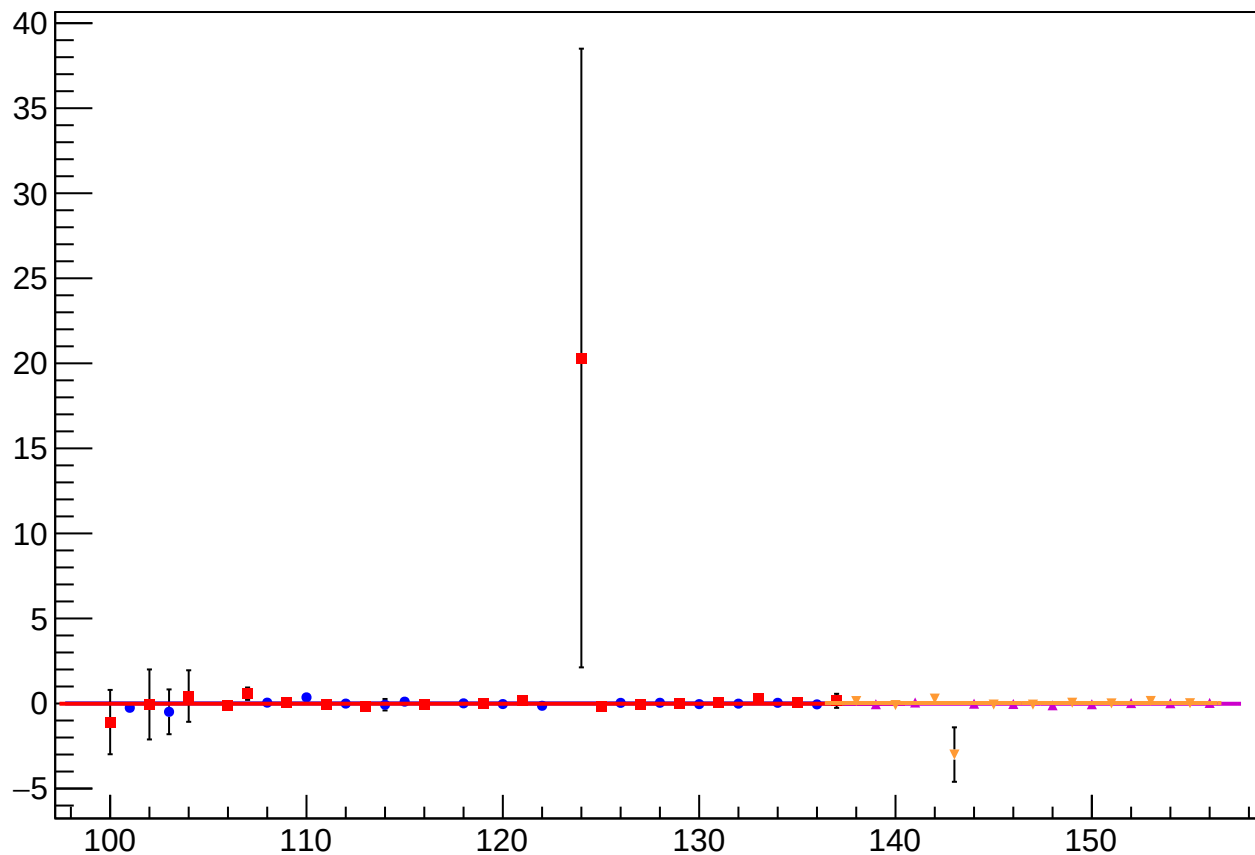
Right: 0.000+/-0.000 χ^2/NDF : 1806874.5/34

In: 0.000+/-0.000 χ^2/NDF : 2400781.9/24

Out: 0.000+/-0.000 χ^2/NDF : 3229595.6/28

All: 0.000+/-0.000 χ^2/NDF : 5786592.1/53

asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004+/-0.027 χ^2/NDF : 11.4/15

Left Out: 0.030+/-0.021 χ^2/NDF : 20.6/9

Right Out: -0.013+/-0.026 χ^2/NDF : 17.6/18

Left In: -0.015+/-0.019 χ^2/NDF : 7.5/8

Left: 0.005+/-0.014 χ^2/NDF : 30.7/18

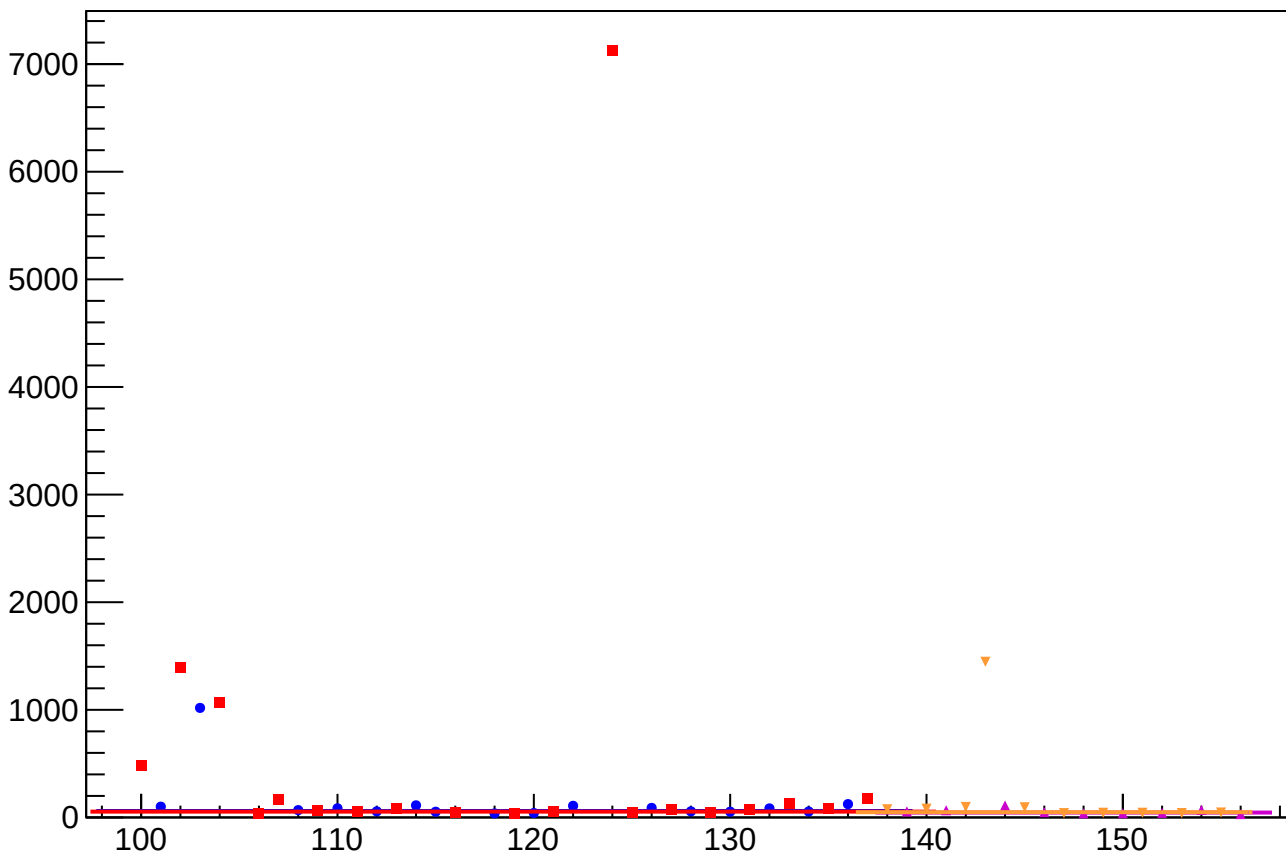
Right: -0.005+/-0.019 χ^2/NDF : 29.2/34

In: -0.009+/-0.015 χ^2/NDF : 19.2/24

Out: 0.013+/-0.016 χ^2/NDF : 39.8/28

All: 0.001+/-0.011 χ^2/NDF : 60.1/53

asym_at1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.840 $\pm$ 0.019 χ^2 /NDF: 2538867.4/15

Left Out: 48.955 $\pm$ 0.015 χ^2 /NDF: 2620968.0/9

Right Out: 54.249 $\pm$ 0.018 χ^2 /NDF: 3521580.5/18

Left In: 45.431 $\pm$ 0.013 χ^2 /NDF: 1326110.0/8

Left: 46.997 $\pm$ 0.010 χ^2 /NDF: 3979181.3/18

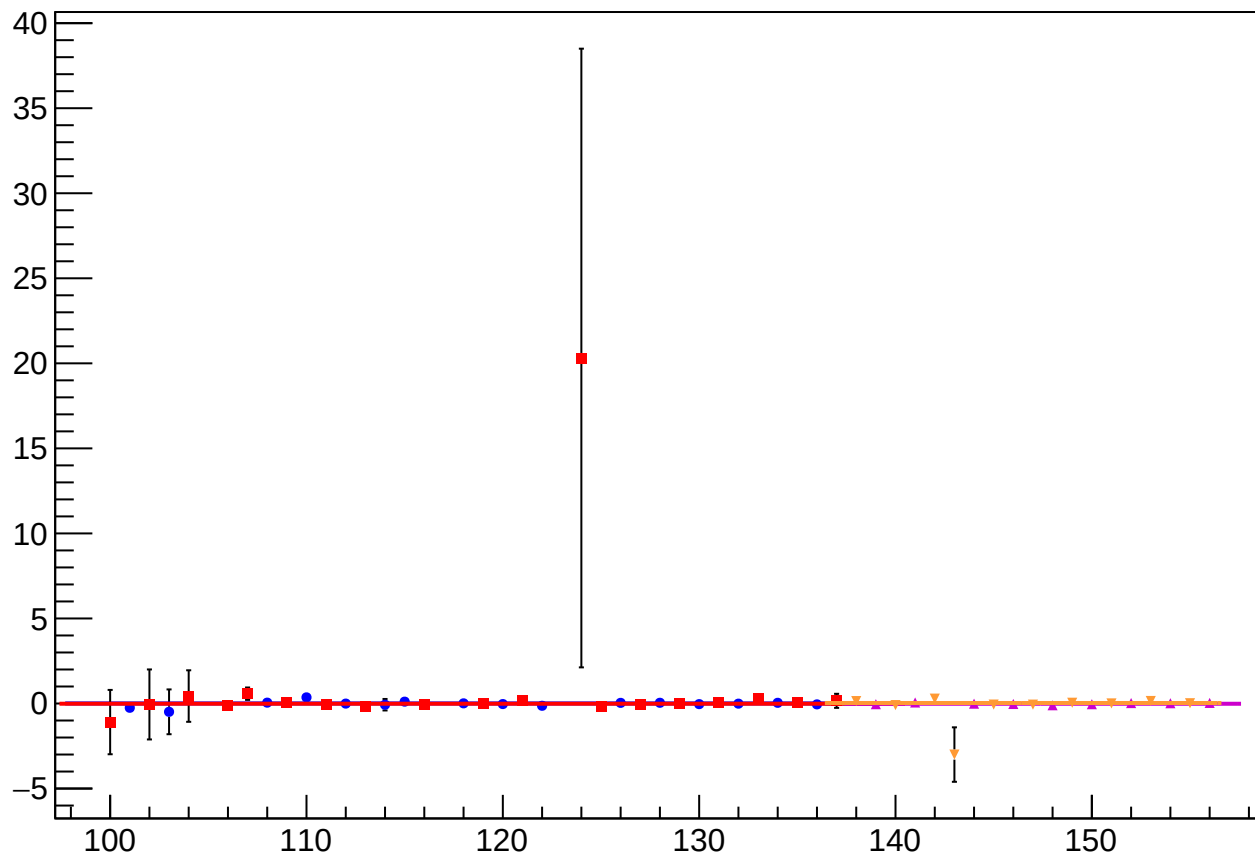
Right: 56.948 $\pm$ 0.013 χ^2 /NDF: 6105751.4/34

In: 50.114 $\pm$ 0.011 χ^2 /NDF: 4257578.9/24

Out: 51.030 $\pm$ 0.011 χ^2 /NDF: 6193701.8/28

All: 50.545 $\pm$ 0.008 χ^2 /NDF: 10454683.5/53

asym_at1_avg_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: 0.030 $\pm$ 0.021 χ^2 /NDF: 20.6/9

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: -0.015 $\pm$ 0.019 χ^2 /NDF: 7.5/8

Left: 0.005 $\pm$ 0.014 χ^2 /NDF: 30.7/18

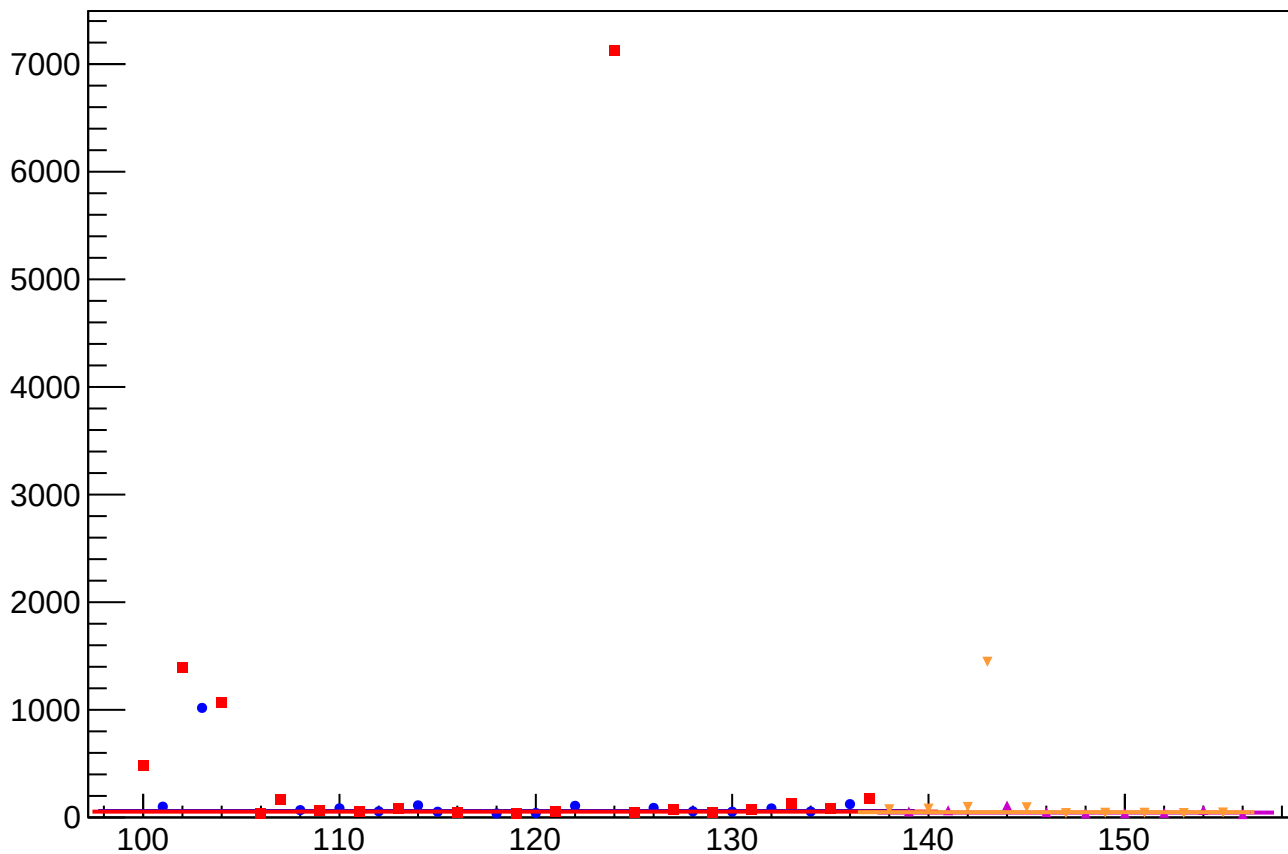
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: -0.009 $\pm$ 0.015 χ^2 /NDF: 19.2/24

Out: 0.013 $\pm$ 0.016 χ^2 /NDF: 39.8/28

All: 0.001 $\pm$ 0.011 χ^2 /NDF: 60.1/53

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: 48.955+/-0.015 χ^2/NDF : 2620968.0/9

Right Out: 54.249+/-0.018 χ^2/NDF : 3521580.5/18

Left In: 45.431+/-0.013 χ^2/NDF : 1326110.0/8

Left: 46.997+/-0.010 χ^2/NDF : 3979181.3/18

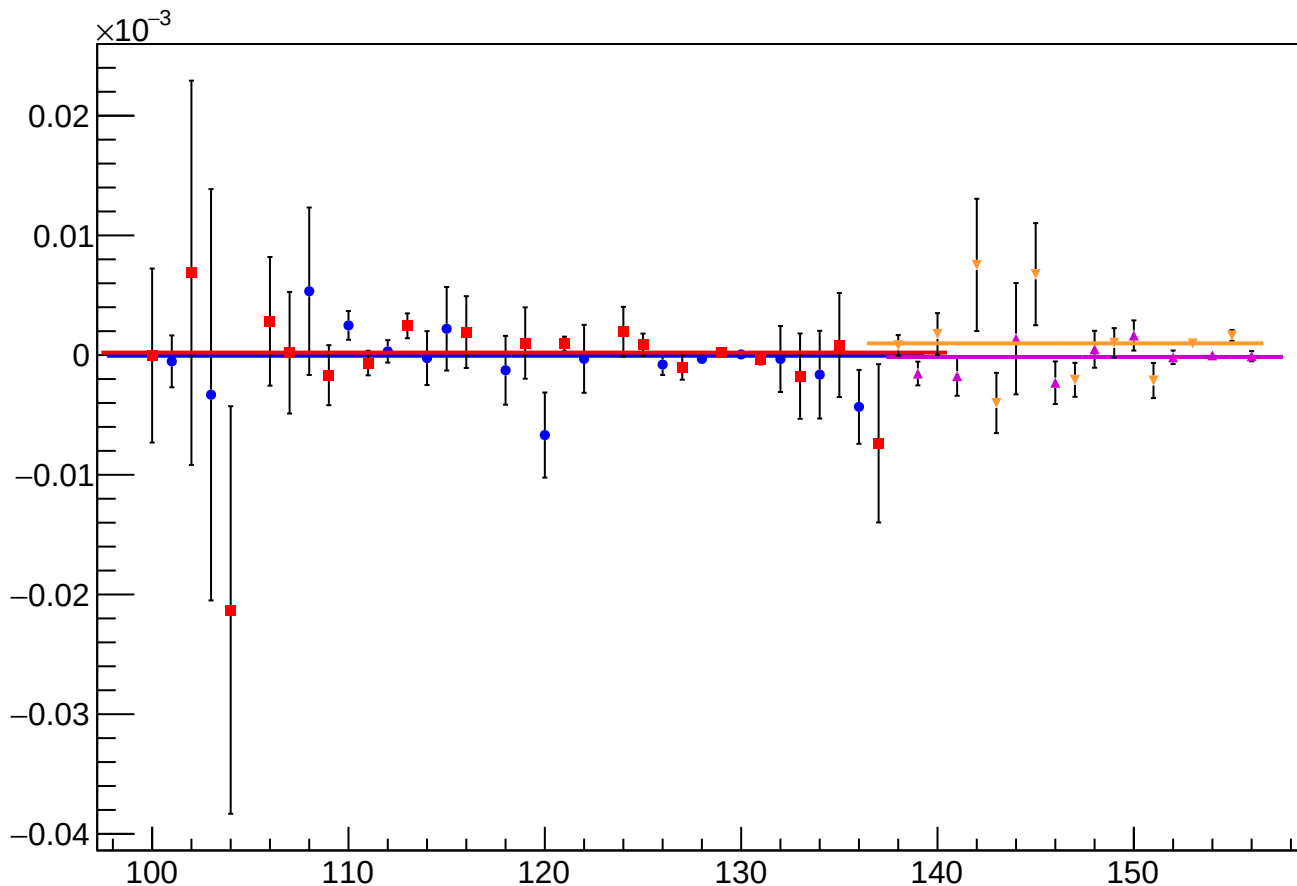
Right: 56.948+/-0.013 χ^2/NDF : 6105751.4/34

In: 50.114+/-0.011 χ^2/NDF : 4257578.9/24

Out: 51.030+/-0.011 χ^2/NDF : 6193701.8/28

All: 50.545+/-0.008 χ^2/NDF : 10454683.5/53

asym_at1_avg_eigen_dit_vs_dit_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 : 18.6/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.6/18

Left In: -0.000 ± 0.000 χ^2/NDF : 6.8/8

Left: 0.000 ± 0.000 χ^2/NDF : 36.1/18

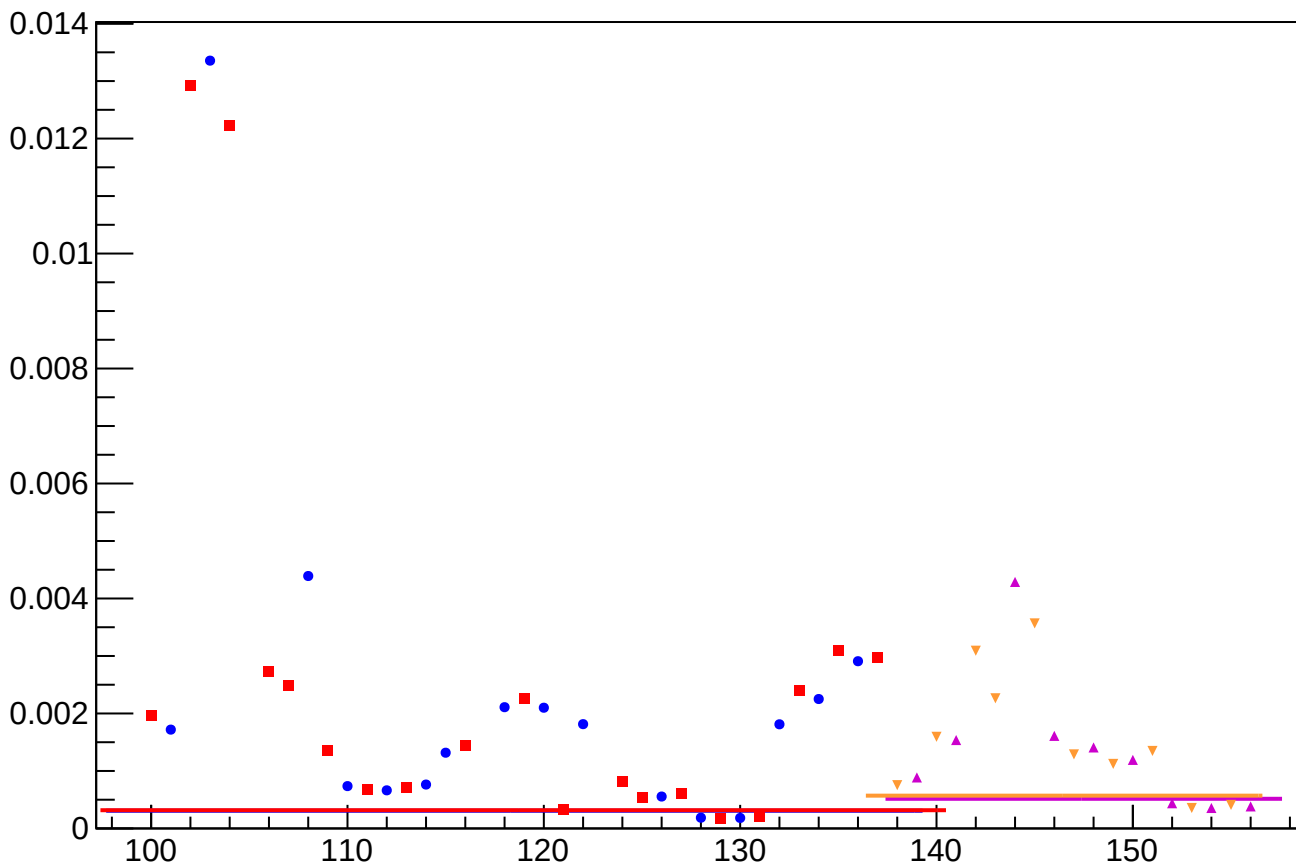
Right: 0.000 ± 0.000 χ^2/NDF : 29.4/34

In: -0.000 ± 0.000 χ^2/NDF : 19.8/24

Out: 0.000 ± 0.000 χ^2/NDF : 40.0/28

All: 0.000 ± 0.000 χ^2/NDF : 67.1/53

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 :5417337.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 8015537.3/18

Left In: 0.001+/-0.000 χ^2/NDF :4958375.9/8

Left: 0.001+/-0.000 χ^2/NDF : 10424982.9/18

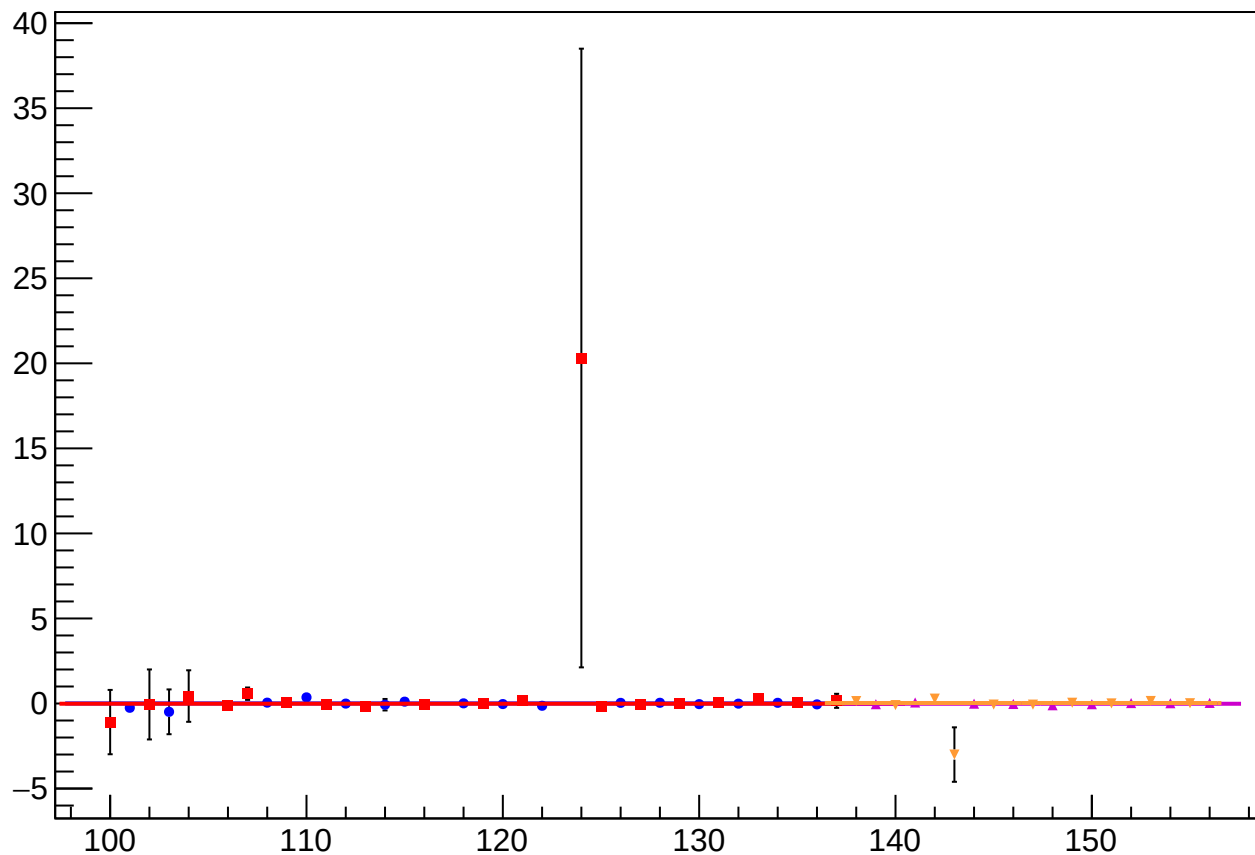
Right: 0.000+/-0.000 χ^2/NDF : 16773891.5/34

In: 0.000+/-0.000 χ^2/NDF :14652150.0/24

Out: 0.000+/-0.000 χ^2/NDF :14666554.2/28

All: 0.000+/-0.000 χ^2/NDF : 29328245.8/53

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 ± 0.027 $\chi^2/\text{NDF}: 11.4/15$

Left Out: 0.030 ± 0.021 $\chi^2/\text{NDF}: 20.6/9$

Right Out: -0.013 ± 0.026 $\chi^2/\text{NDF}: 17.6/18$

Left In: -0.015 ± 0.019 $\chi^2/\text{NDF}: 7.5/8$

Left: 0.005 ± 0.014 $\chi^2/\text{NDF}: 30.7/18$

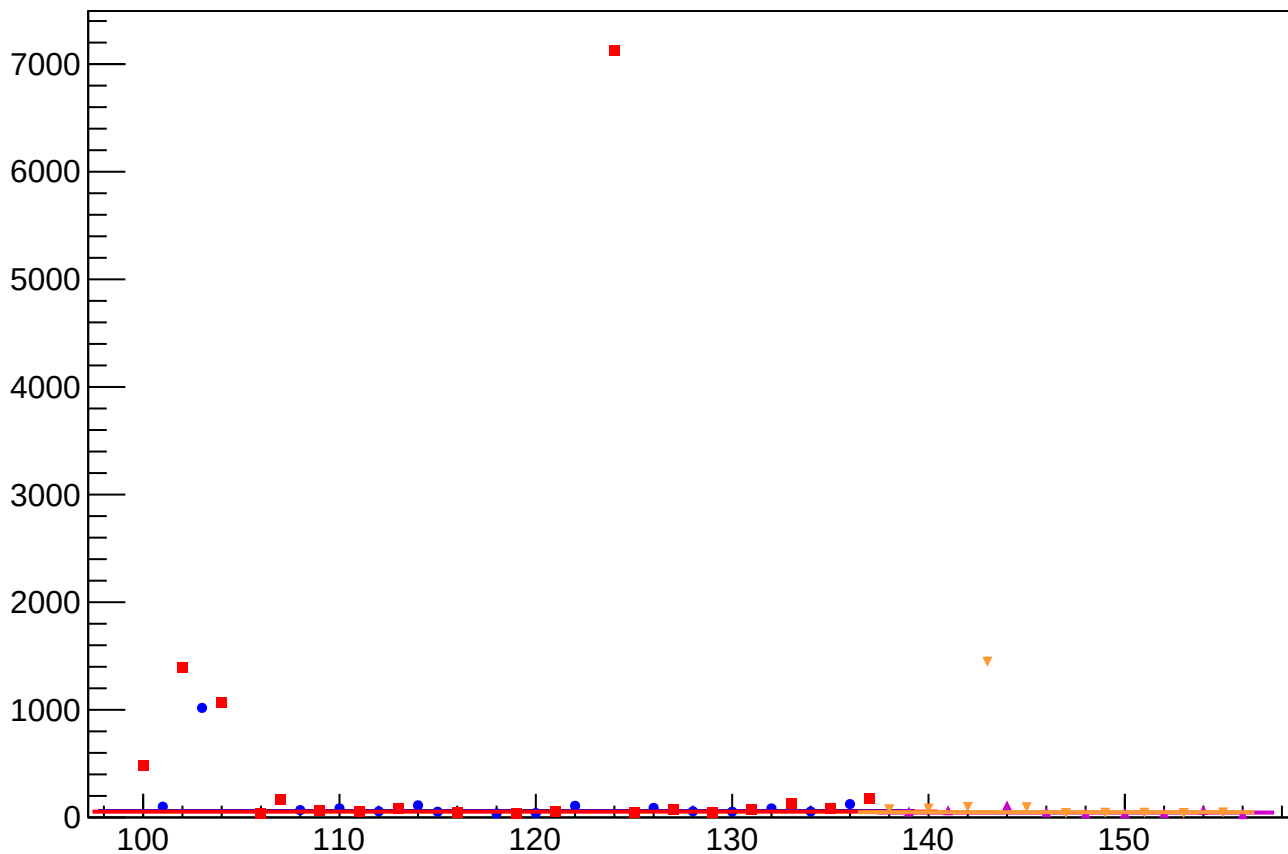
Right: -0.005 ± 0.019 $\chi^2/\text{NDF}: 29.2/34$

In: -0.009 ± 0.015 $\chi^2/\text{NDF}: 19.2/24$

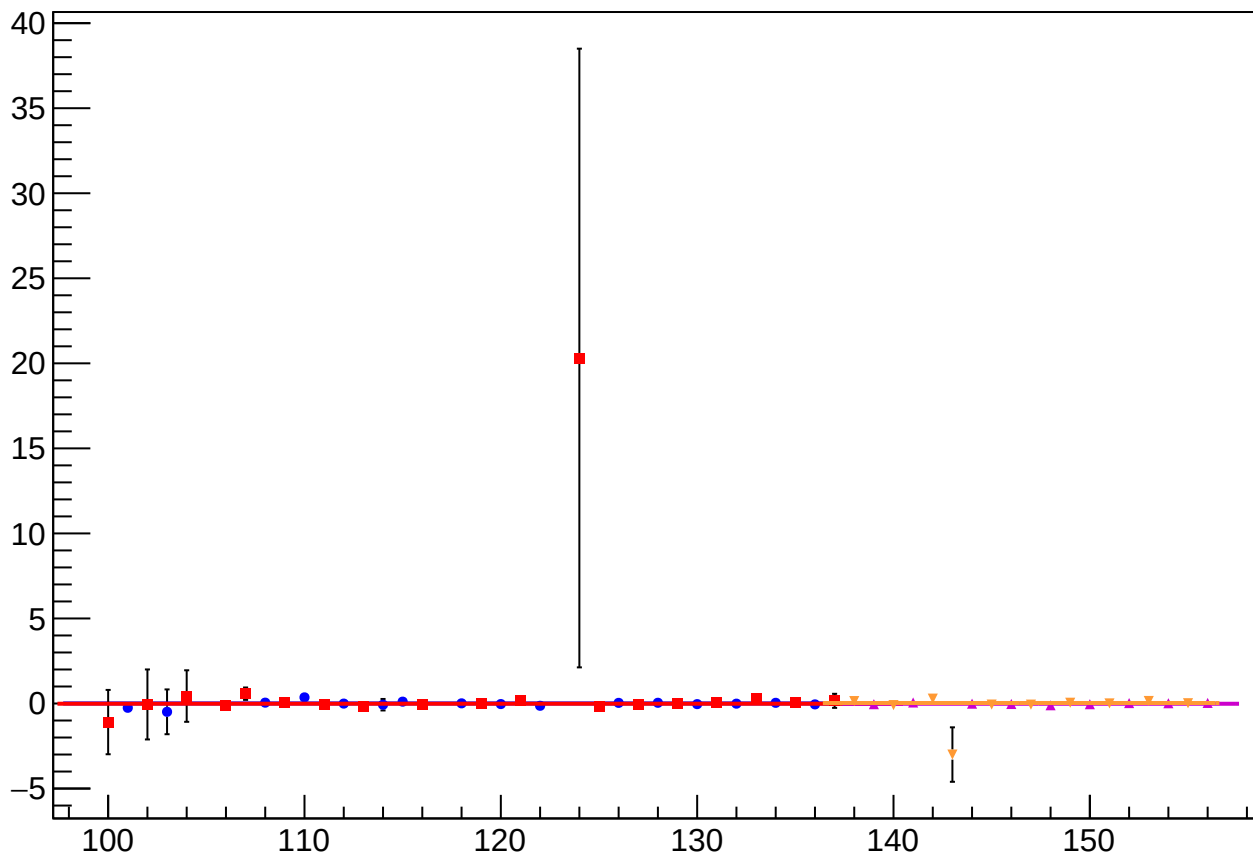
Out: 0.013 ± 0.016 $\chi^2/\text{NDF}: 39.8/28$

All: 0.001 ± 0.011 $\chi^2/\text{NDF}: 60.1/53$

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.030 $\pm$ 0.021 χ^2 /NDF: 20.6/9

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: -0.015 $\pm$ 0.019 χ^2 /NDF: 7.5/8

Left: 0.005 $\pm$ 0.014 χ^2 /NDF: 30.7/18

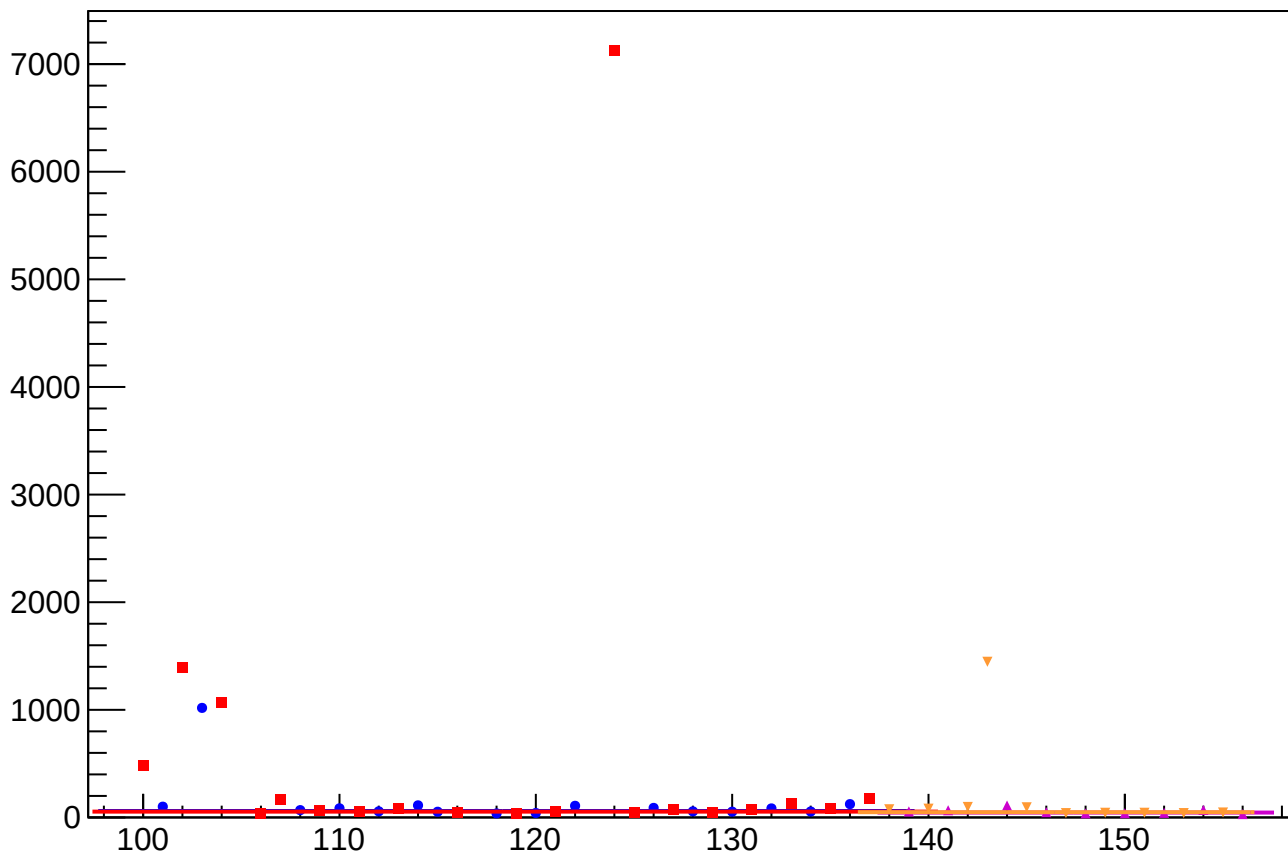
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: -0.009 $\pm$ 0.015 χ^2 /NDF: 19.2/24

Out: 0.013 $\pm$ 0.016 χ^2 /NDF: 39.8/28

All: 0.001 $\pm$ 0.011 χ^2 /NDF: 60.1/53

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: 48.955+/-0.015 χ^2/NDF :2620951.8/9

Right Out: 54.248 $\pm$ 0.018 χ^2 /NDF: 3521640.4/18

Left In: 45.431+/-0.013 χ^2/NDF :1326126.2/8

Left: 46.997 ± 0.010 $\chi^2/\text{NDF}: 3979186.8/18$

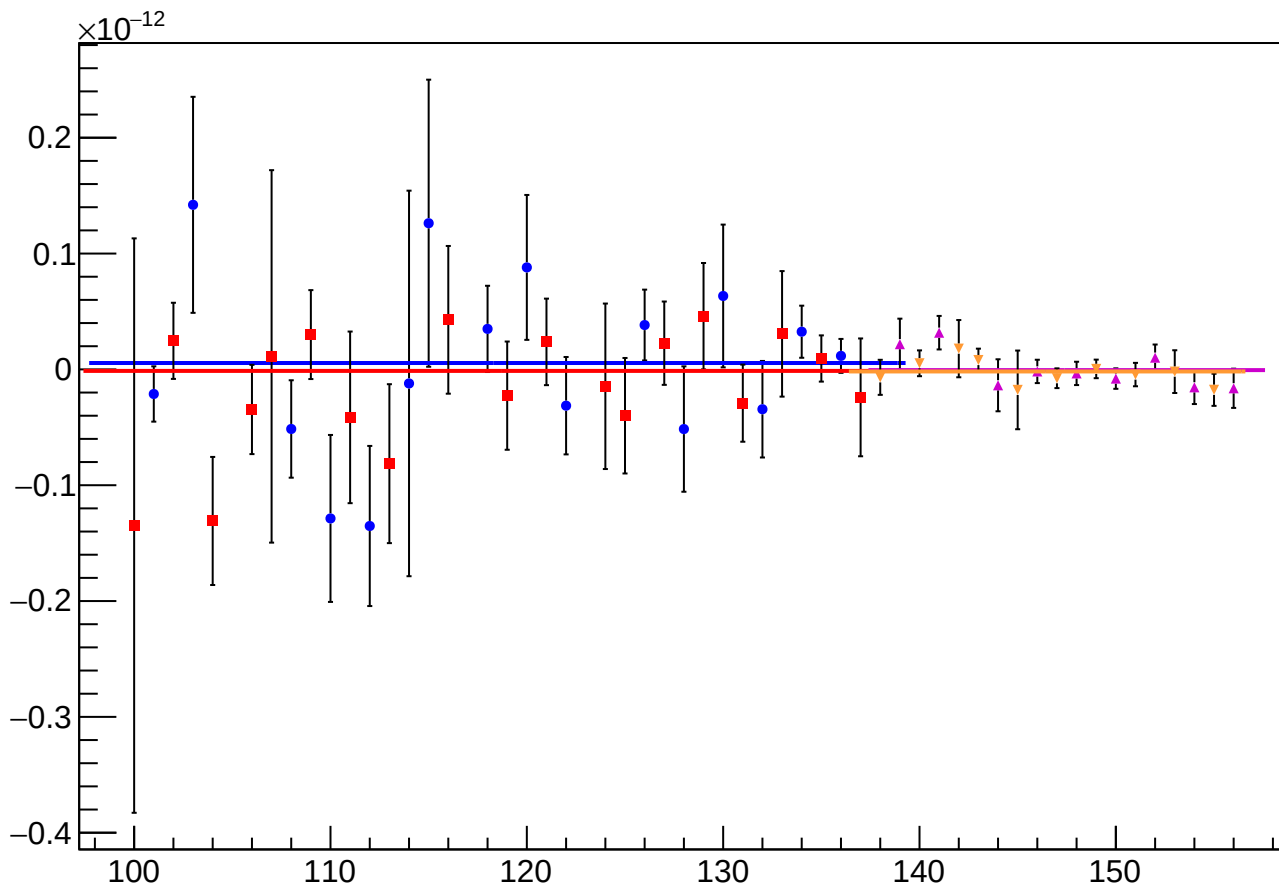
Right: 56.947+/-0.013 χ^2/NDF : 6105839.5/34

In: 50.114+/-0.011 χ^2/NDF :4257605.6/24

Out: 51.030+/-0.011 χ^2/NDF :6193722.0/28

All: 50.545+/-0.008 χ^2/NDF : 10454729.5/53

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 4.3/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 14.3/18$

Left In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 10.0/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 14.3/18$

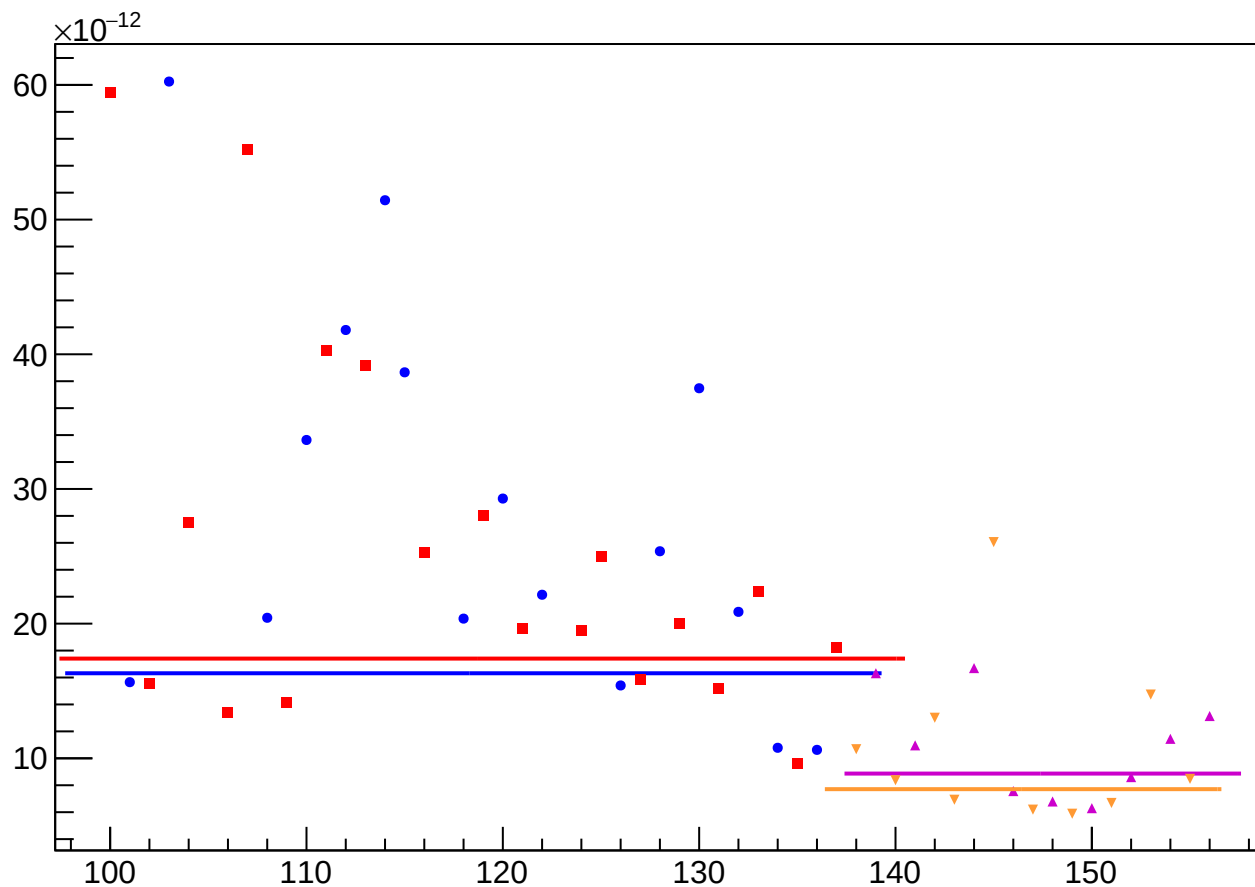
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 37.2/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 33.0/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 18.6/28$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 51.8/53$

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1895019.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1255958.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1197059.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 993668.2/8

Left: 0.000+/-0.000 χ^2/NDF : 2335427.3/18

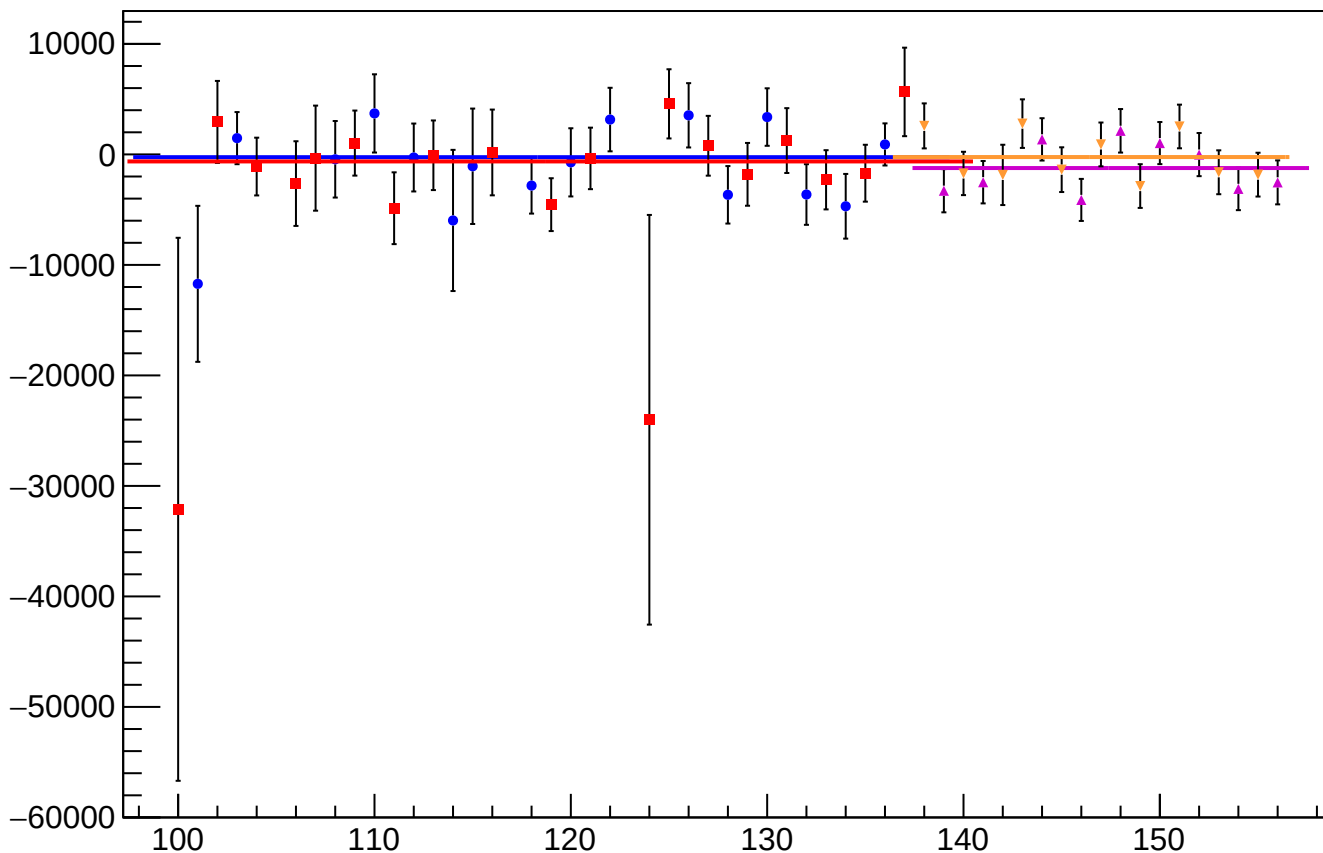
Right: 0.000+/-0.000 χ^2/NDF : 3106014.7/34

In: 0.000+/-0.000 χ^2/NDF : 4092238.4/24

Out: 0.000+/-0.000 χ^2/NDF : 4171939.9/28

All: 0.000+/-0.000 χ^2/NDF : 8402027.9/53

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -251.297+/-735.111 χ^2/NDF : 17.3/15

Left Out: -239.828+/-650.756 χ^2/NDF :10.2/9

Right Out: -636.082+/-735.477 χ^2/NDF : 15.9/18

Left In: -1234.777+/-645.473 χ^2/NDF :11.8/8

Left: -741.358+/-458.275 χ^2/NDF : 23.2/18

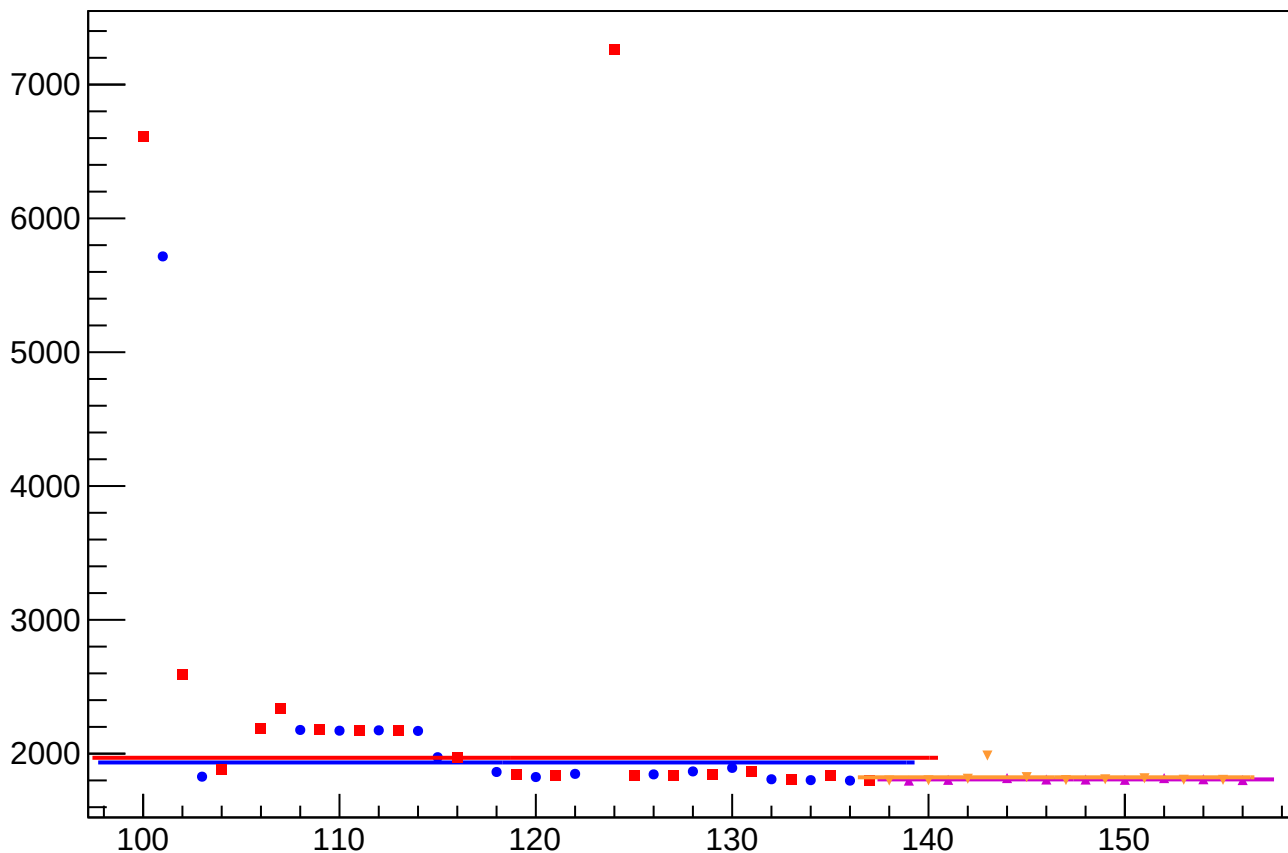
Right: -443.594+/-519.932 χ^2/NDF : 33.3/34

In: -806.624+/-485.031 χ^2/NDF :30.1/24

Out: -413.828+/-487.368 χ^2/NDF :26.3/28

All: -611.170+/-343.792 χ^2/NDF : 56.7/53

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217 $\pm$ 0.520 χ^2 /NDF: 639920.0/15

Left Out: 1823.282 $\pm$ 0.460 χ^2 /NDF:12254.3/9

Right Out: 1969.204 $\pm$ 0.520 χ^2 /NDF: 378378.8/18

Left In: 1807.641 $\pm$ 0.456 χ^2 /NDF:171.6/8

Left: 1815.398 $\pm$ 0.324 χ^2 /NDF: 13008.3/18

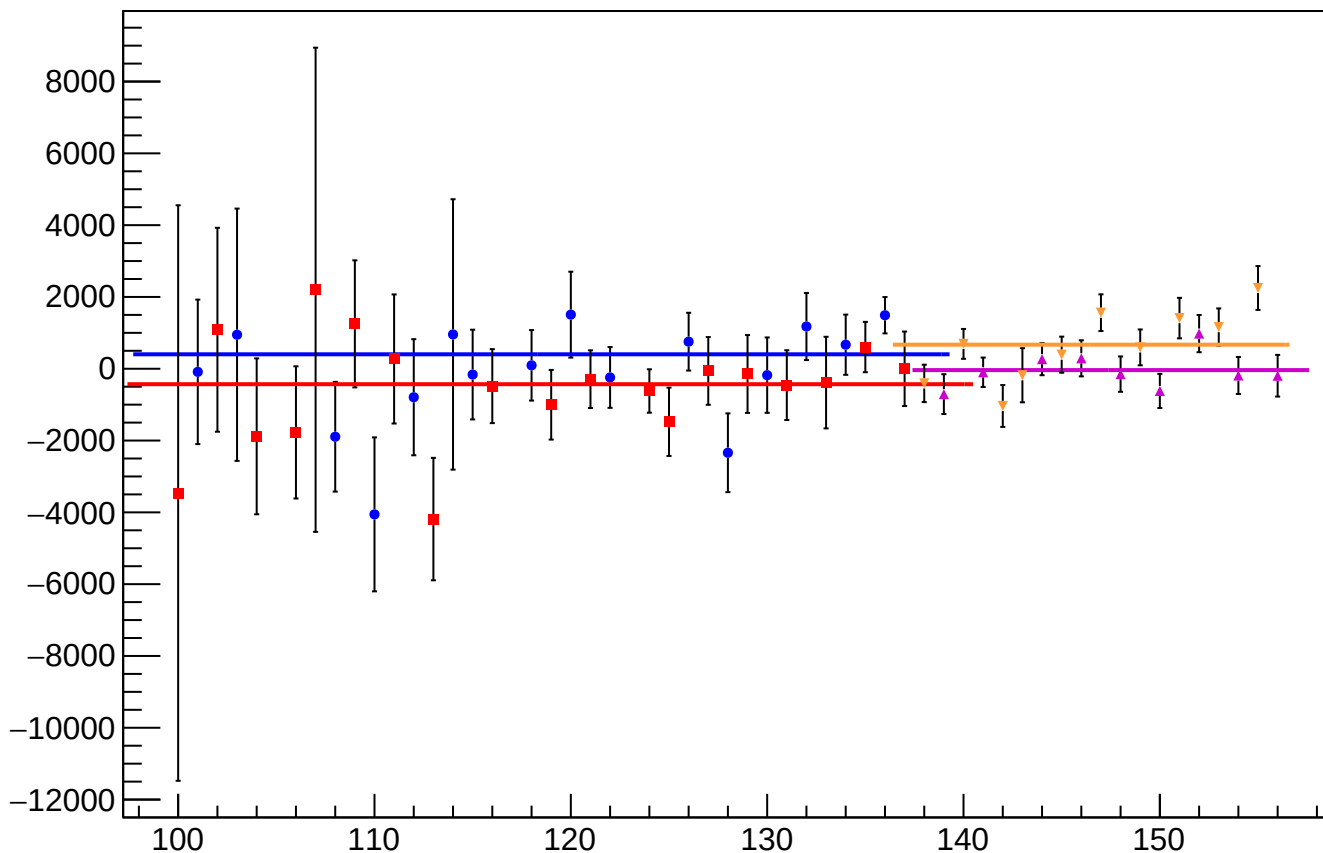
Right: 1951.702 $\pm$ 0.368 χ^2 /NDF: 1020563.0/34

In: 1862.745 $\pm$ 0.343 χ^2 /NDF:673573.2/24

Out: 1887.358 $\pm$ 0.345 χ^2 /NDF:434791.1/28

All: 1874.993 $\pm$ 0.243 χ^2 /NDF: 1110927.1/53

asym_at1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 402.626+/-258.574 χ^2/NDF : 21.1/15

Left Out: 670.645+/-167.859 χ^2/NDF : 26.8/9

Right Out: -430.066+/-252.823 χ^2/NDF : 11.7/18

Left In: -37.199+/-164.072 χ^2/NDF : 7.9/8

Left: 308.648+/-117.333 χ^2/NDF : 43.8/18

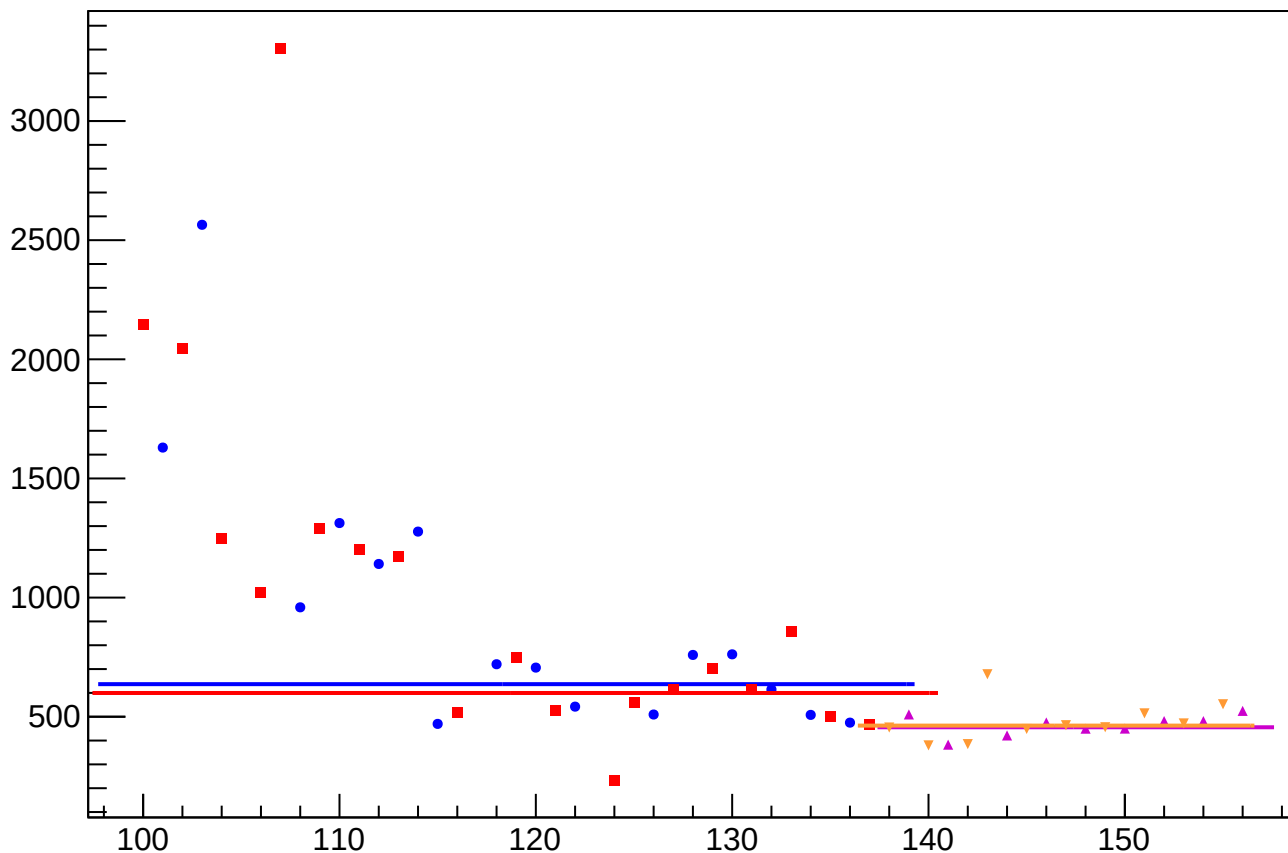
Right: -23.083+/-180.772 χ^2/NDF : 38.2/34

In: 89.053+/-138.537 χ^2/NDF : 31.1/24

Out: 333.884+/-139.843 χ^2/NDF : 51.7/28

All: 210.319+/-98.419 χ^2/NDF : 84.4/53

asym_at1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 636.700 $\pm$ 0.183 χ^2 /NDF: 2066891.4/15

Left Out: 462.729 $\pm$ 0.119 χ^2 /NDF:341433.6/9

Right Out: 599.631 $\pm$ 0.179 χ^2 /NDF: 2944100.6/18

Left In: 455.729 $\pm$ 0.116 χ^2 /NDF:136067.1/8

Left: 459.149 $\pm$ 0.083 χ^2 /NDF: 479279.5/18

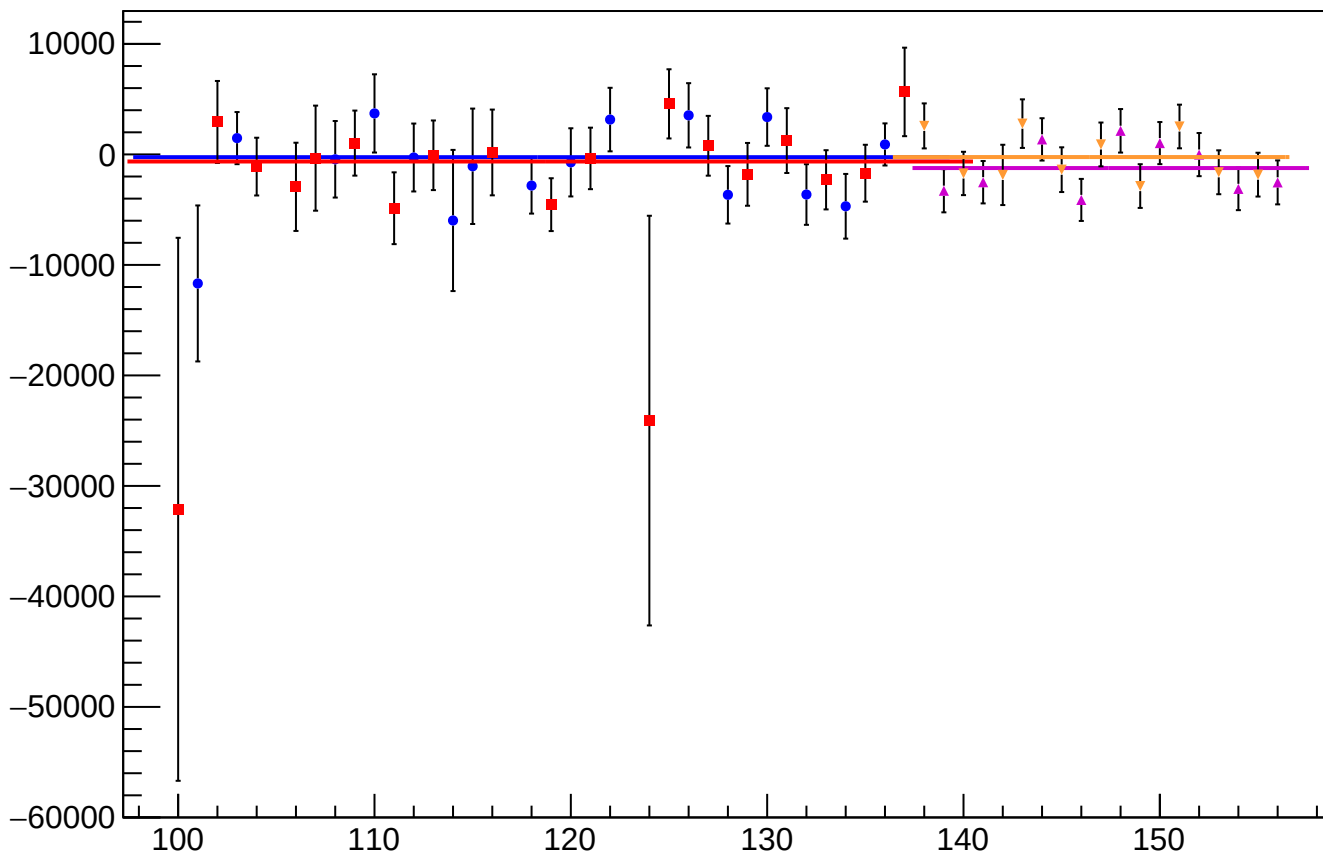
Right: 617.749 $\pm$ 0.128 χ^2 /NDF: 5032005.8/34

In: 507.677 $\pm$ 0.098 χ^2 /NDF:2901409.6/24

Out: 504.614 $\pm$ 0.099 χ^2 /NDF:3692546.0/28

All: 506.160 $\pm$ 0.070 χ^2 /NDF: 6594439.8/53

cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487+/-735.112 χ^2/NDF : 17.2/15

Left Out: -239.903+/-650.756 χ^2/NDF : 10.2/9

Right Out: -640.865+/-736.549 χ^2/NDF : 16.0/18

Left In: -1234.759+/-645.473 χ^2/NDF : 11.8/8

Left: -741.386+/-458.275 χ^2/NDF : 23.2/18

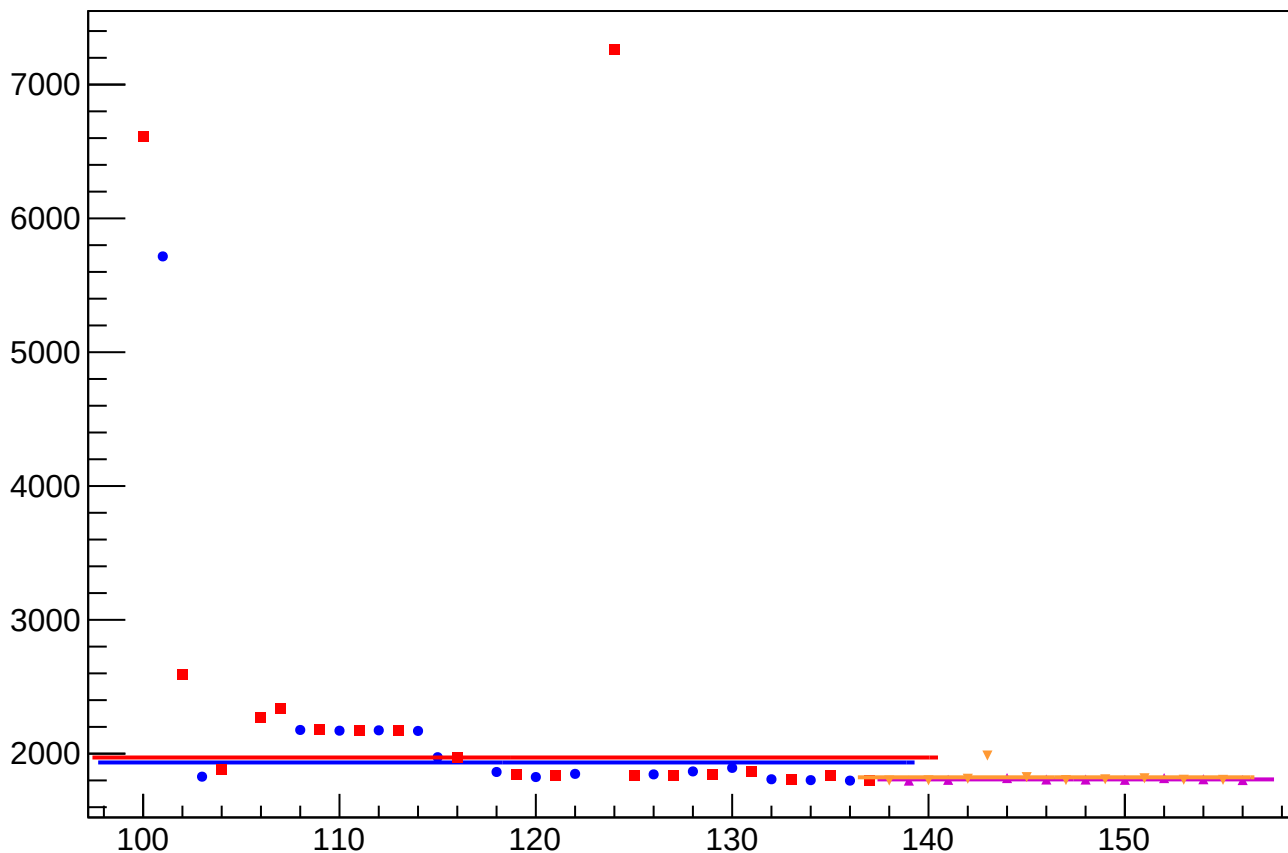
Right: -445.295+/-520.310 χ^2/NDF : 33.3/34

In: -806.262+/-485.031 χ^2/NDF : 30.0/24

Out: -415.682+/-487.679 χ^2/NDF : 26.4/28

All: -612.035+/-343.901 χ^2/NDF : 56.7/53

cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1823.282+/-0.460 χ^2/NDF :12254.3/9

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1807.641+/-0.456 χ^2/NDF :171.6/8

Left: 1815.398+/-0.324 χ^2/NDF : 13008.3/18

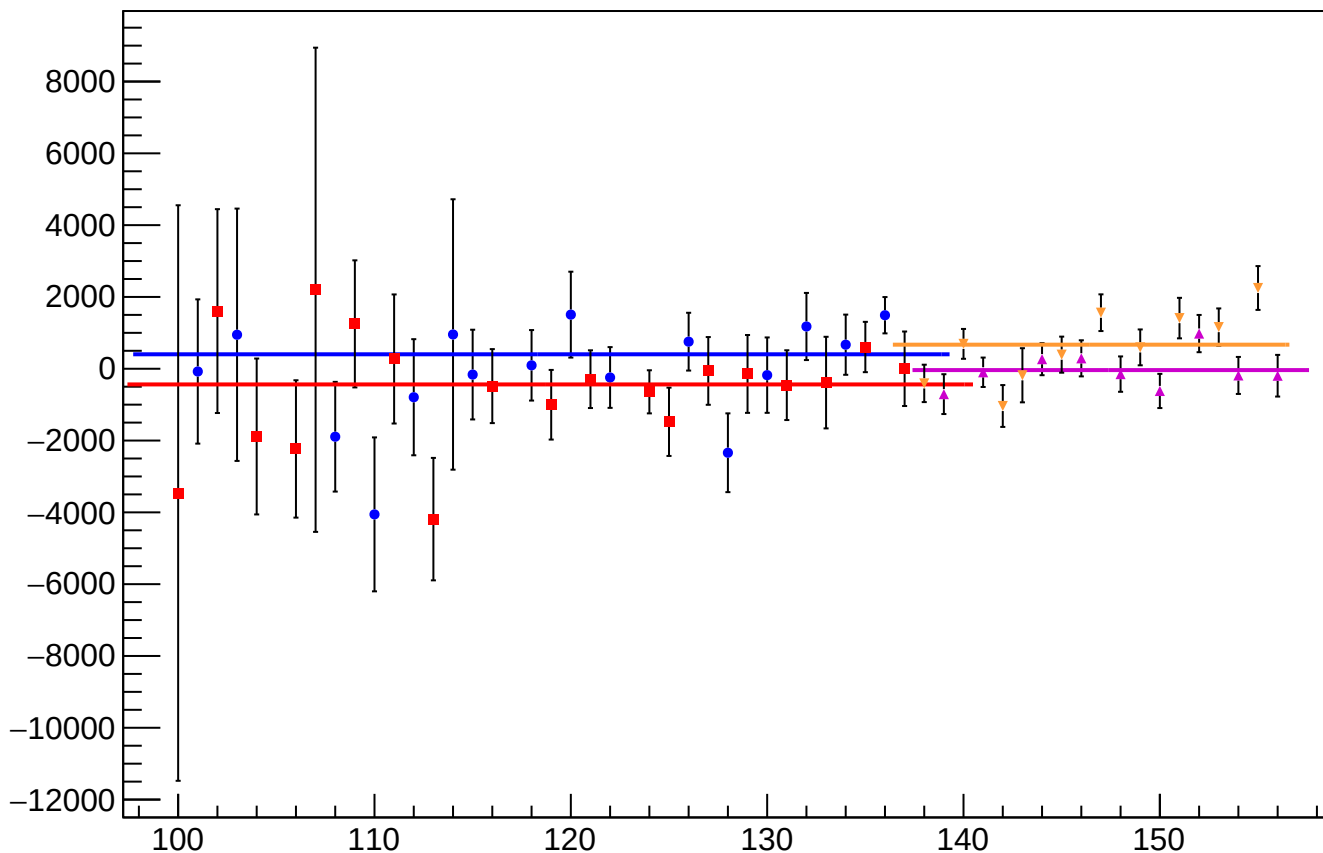
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1862.745+/-0.343 χ^2/NDF :673573.1/24

Out: 1888.198+/-0.345 χ^2/NDF :440827.1/28

All: 1875.402+/-0.243 χ^2/NDF : 1117139.0/53

asym_at1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 402.701 ± 258.564 χ^2/NDF : 21.1/15

Left Out: 670.583 ± 167.861 χ^2/NDF : 26.8/9

Right Out: -436.691 ± 252.672 χ^2/NDF : 12.4/18

Left In: -37.209 ± 164.070 χ^2/NDF : 7.9/8

Left: 308.604 ± 117.332 χ^2/NDF : 43.8/18

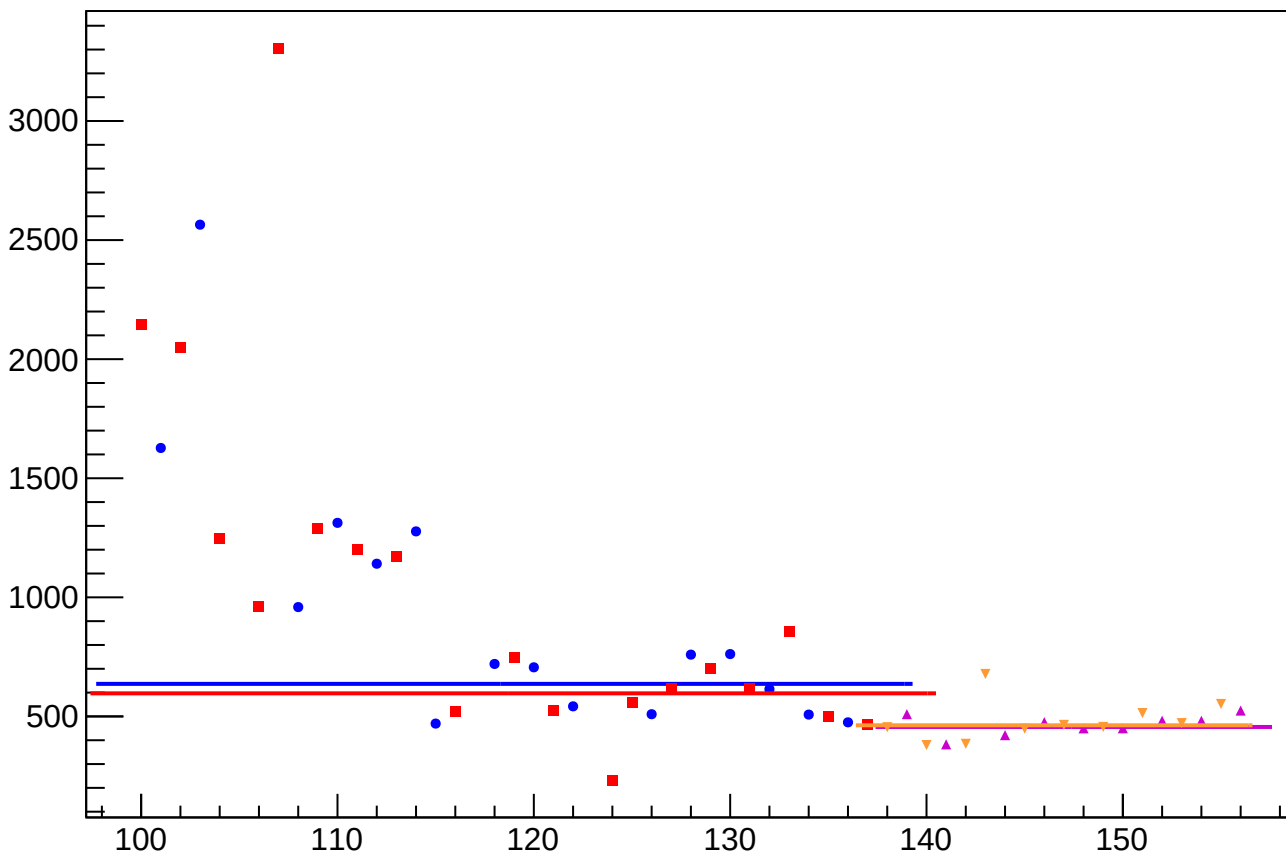
Right: -26.666 ± 180.713 χ^2/NDF : 38.9/34

In: 89.072 ± 138.533 χ^2/NDF : 31.1/24

Out: 331.528 ± 139.819 χ^2/NDF : 52.5/28

All: 209.181 ± 98.409 χ^2/NDF : 85.1/53

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: 462.735 $\pm$ 0.119 χ^2 /NDF: 341375.8/9

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 455.722 $\pm$ 0.116 χ^2 /NDF: 136083.3/8

Left: 459.148 $\pm$ 0.083 χ^2 /NDF: 479244.2/18

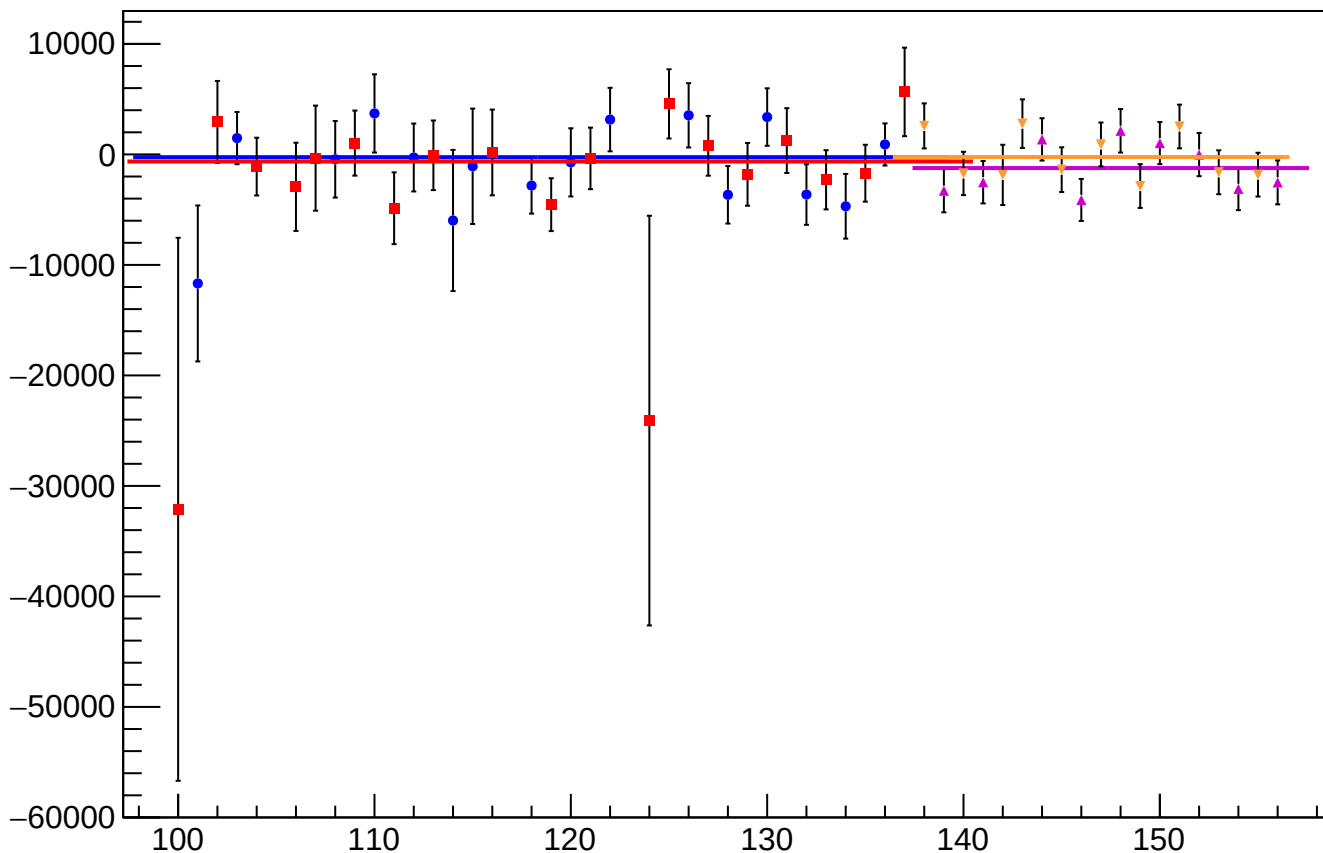
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 507.673 $\pm$ 0.098 χ^2 /NDF: 2900642.3/24

Out: 503.805 $\pm$ 0.099 χ^2 /NDF: 3662821.0/28

All: 505.757 $\pm$ 0.070 χ^2 /NDF: 6564235.6/53

eigen_cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487+/-735.112 χ^2/NDF : 17.2/15

Left Out: -239.903+/-650.756 χ^2/NDF :10.2/9

Right Out: -640.865+/-736.549 χ^2/NDF : 16.0/18

Left In: -1234.759+/-645.473 χ^2/NDF :11.8/8

Left: -741.386+/-458.275 χ^2/NDF : 23.2/18

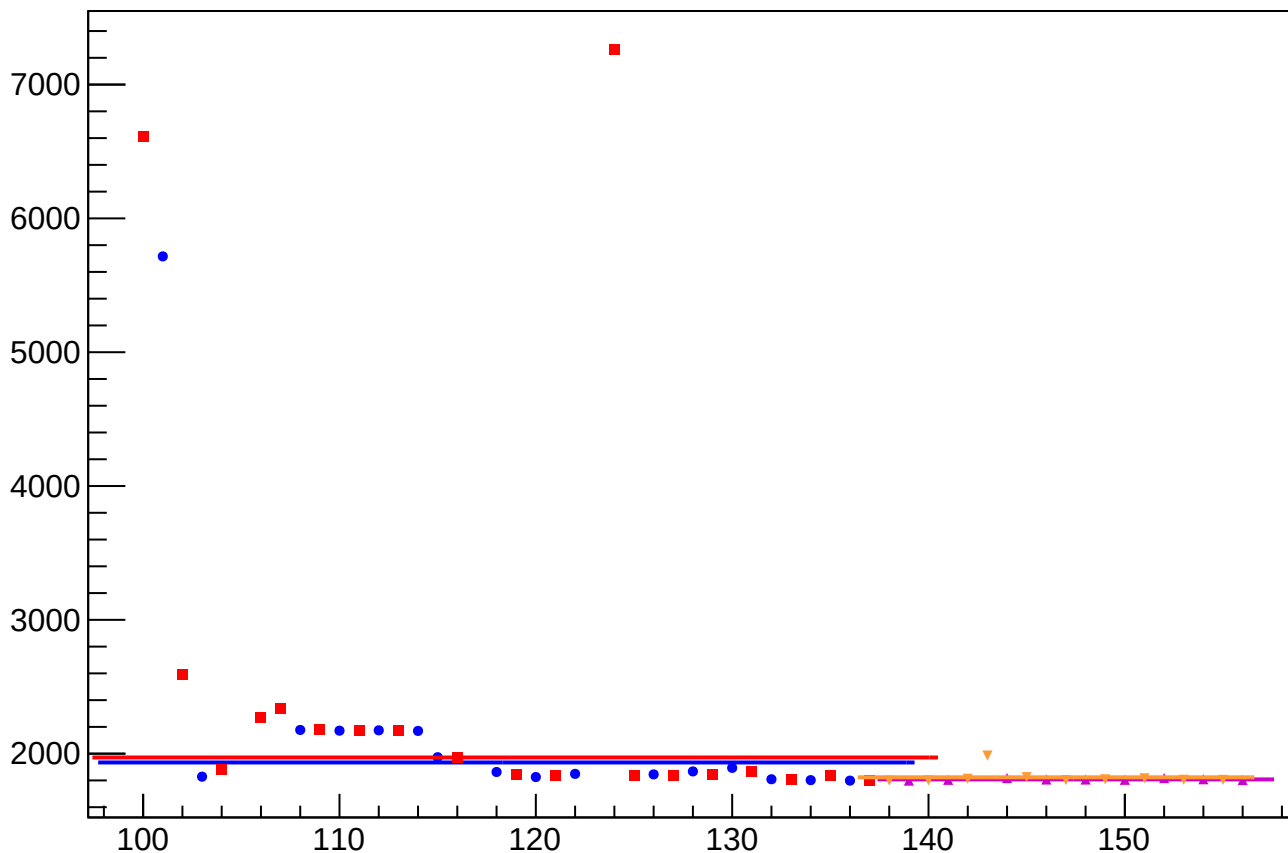
Right: -445.295+/-520.310 χ^2/NDF : 33.3/34

In: -806.262+/-485.031 χ^2/NDF :30.0/24

Out: -415.682+/-487.679 χ^2/NDF :26.4/28

All: -612.035+/-343.901 χ^2/NDF : 56.7/53

eigen_cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1823.282+/-0.460 χ^2/NDF :12254.3/9

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1807.641+/-0.456 χ^2/NDF :171.6/8

Left: 1815.398+/-0.324 χ^2/NDF : 13008.3/18

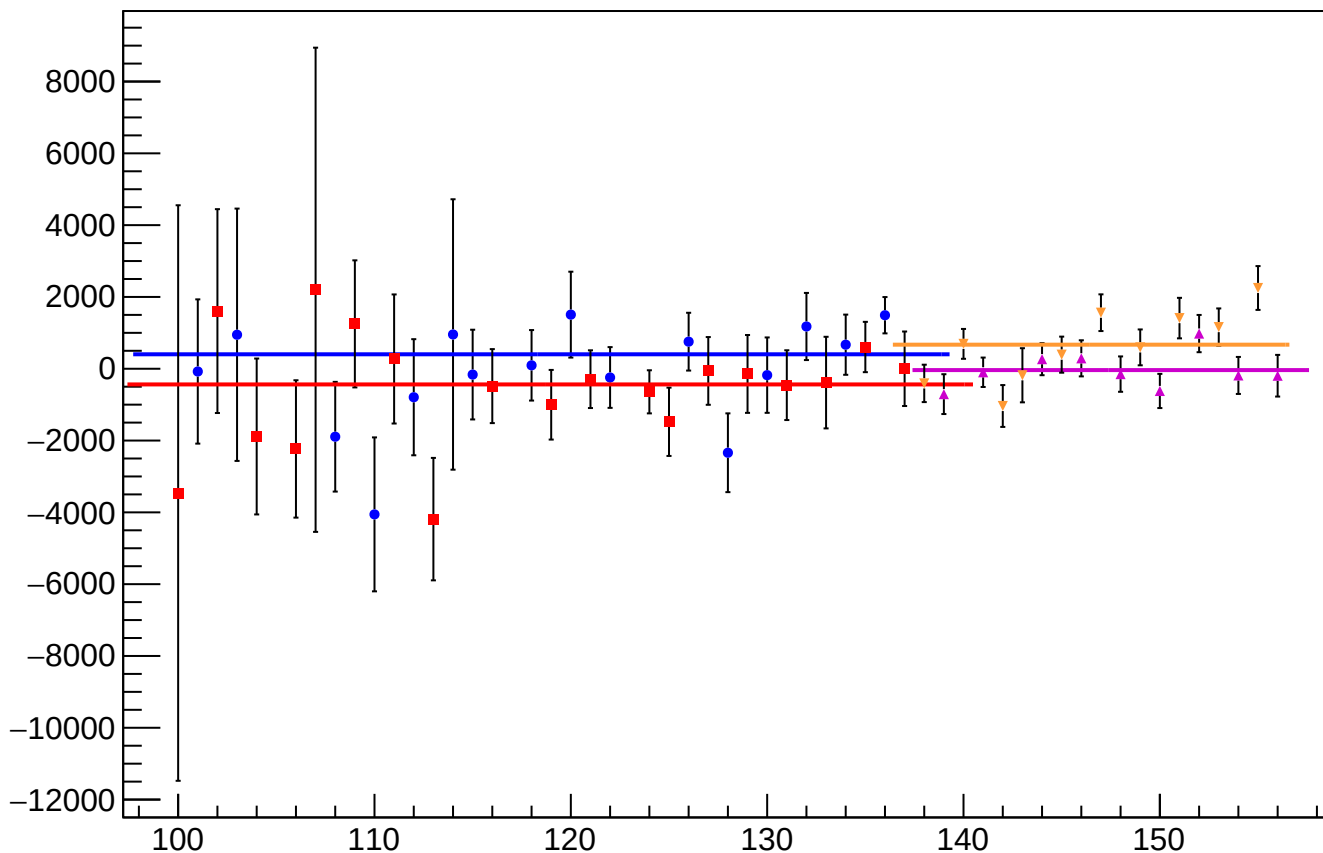
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1862.745+/-0.343 χ^2/NDF :673573.1/24

Out: 1888.198+/-0.345 χ^2/NDF :440827.1/28

All: 1875.402+/-0.243 χ^2/NDF : 1117139.0/53

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: 670.583+/-167.861 χ^2/NDF :26.8/9

Right Out: -436.691+/-252.672 χ^2/NDF : 12.4/18

Left In: -37.209+/-164.070 χ^2/NDF :7.9/8

Left: 308.604+/-117.332 χ^2/NDF : 43.8/18

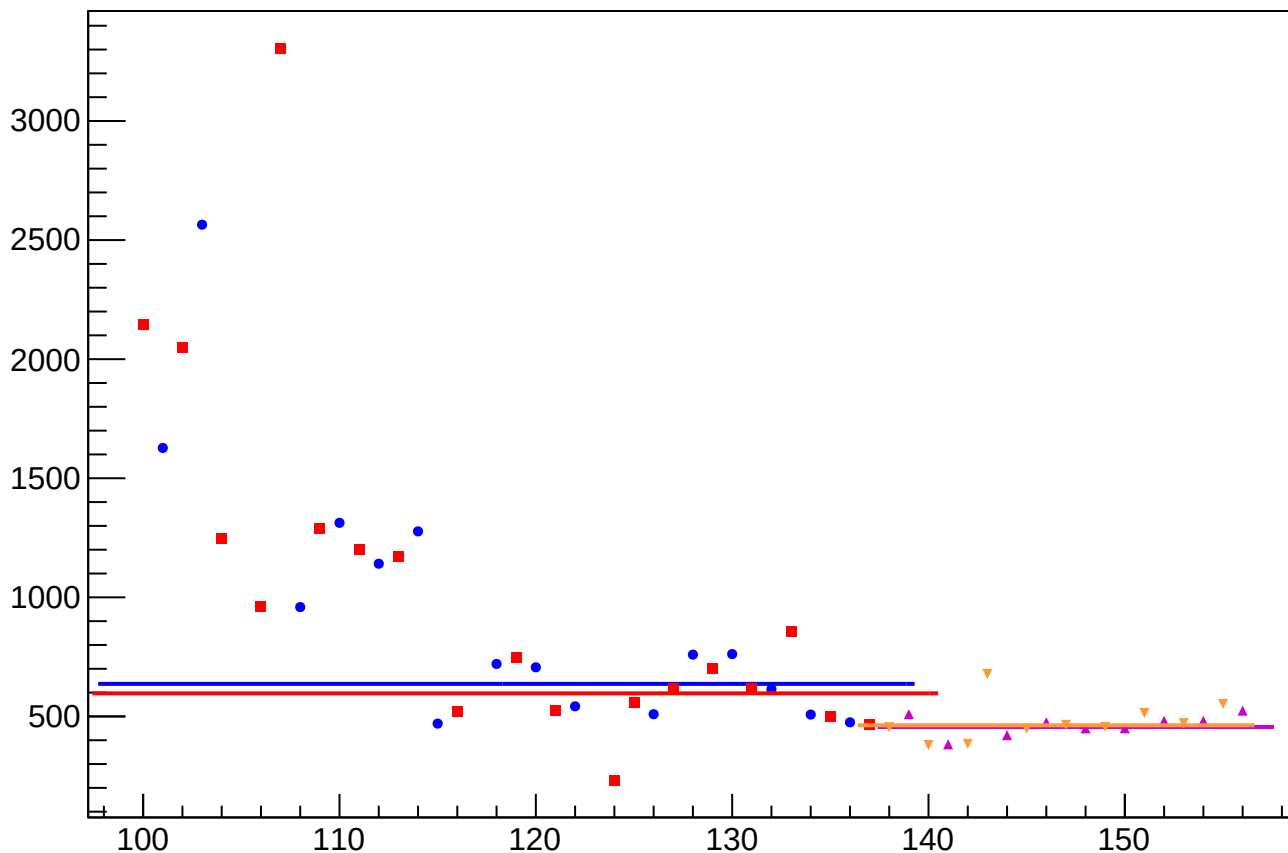
Right: -26.666+/-180.713 χ^2/NDF : 38.9/34

In: 89.072+/-138.533 χ^2/NDF :31.1/24

Out: 331.528+/-139.819 χ^2/NDF :52.5/28

All: 209.181+/-98.409 χ^2/NDF : 85.1/53

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: 462.735 $\pm$ 0.119 χ^2 /NDF:341375.8/9

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 455.722 $\pm$ 0.116 χ^2 /NDF:136083.3/8

Left: 459.148 $\pm$ 0.083 χ^2 /NDF: 479244.2/18

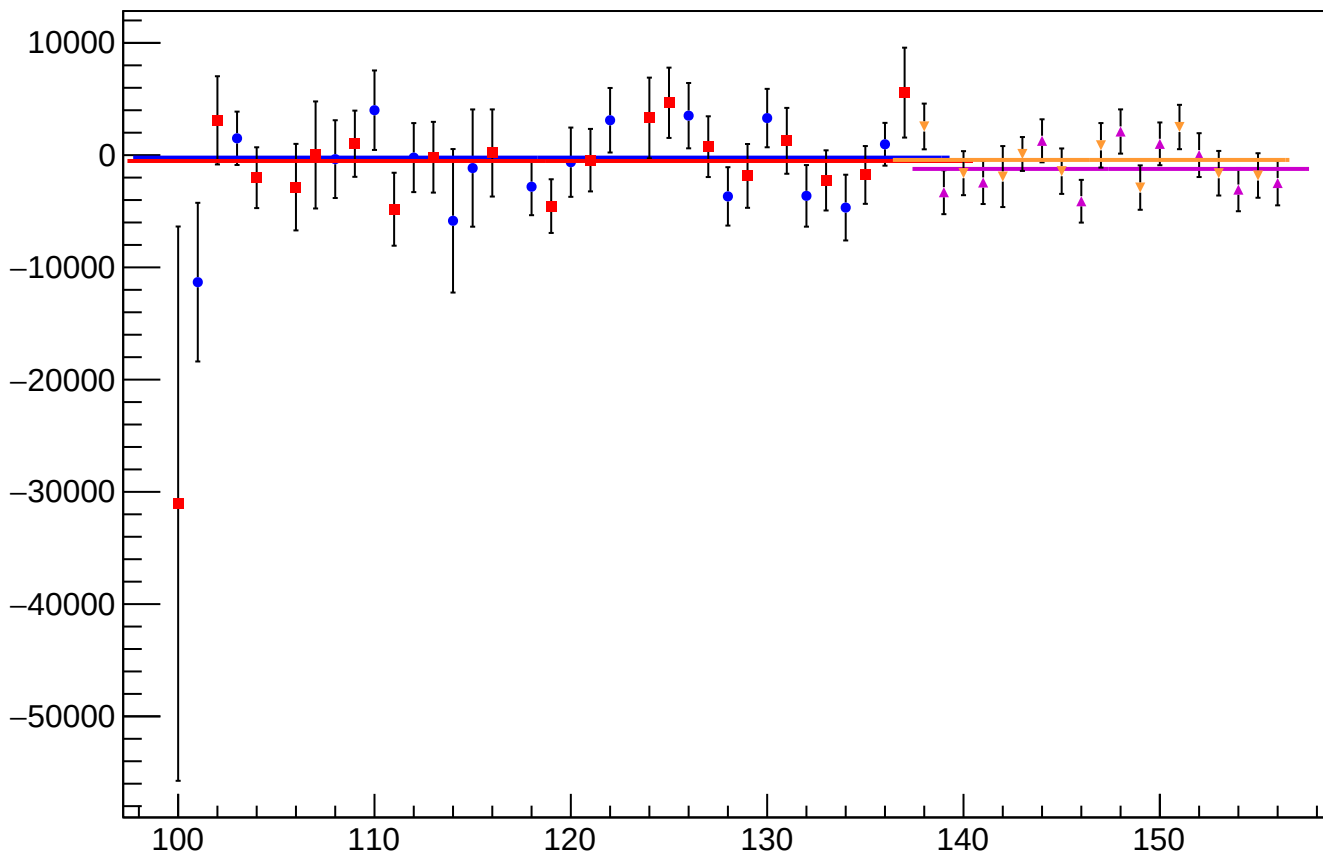
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 507.673 $\pm$ 0.098 χ^2 /NDF:2900642.3/24

Out: 503.805 $\pm$ 0.099 χ^2 /NDF:3662821.0/28

All: 505.757 $\pm$ 0.070 χ^2 /NDF: 6564235.6/53

dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -426.485+/-621.031 χ^2/NDF : 8.2/9

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -1227.826+/-645.687 χ^2/NDF : 11.5/8

Left: -811.564+/-447.598 χ^2/NDF : 20.5/18

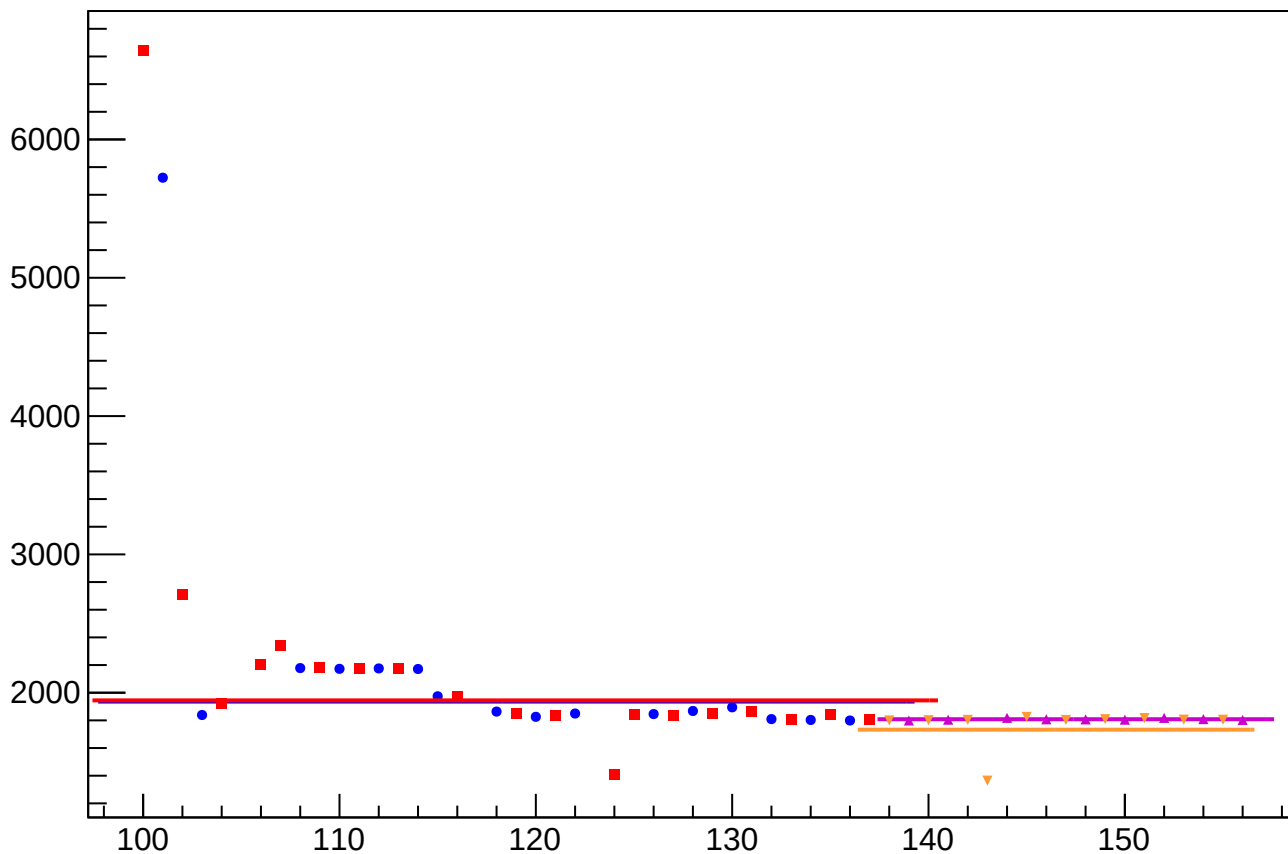
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -789.604+/-485.345 χ^2/NDF : 29.6/24

Out: -466.175+/-471.644 χ^2/NDF : 23.8/28

All: -623.260+/-338.243 χ^2/NDF : 53.7/53

dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974 $\pm$ 0.520 χ^2 /NDF: 639808.0/15

Left Out: 1732.645 $\pm$ 0.439 χ^2 /NDF:143574.6/9

Right Out: 1944.495 $\pm$ 0.513 χ^2 /NDF: 276223.6/18

Left In: 1808.241 $\pm$ 0.457 χ^2 /NDF:171.1/8

Left: 1768.972 $\pm$ 0.316 χ^2 /NDF: 157986.4/18

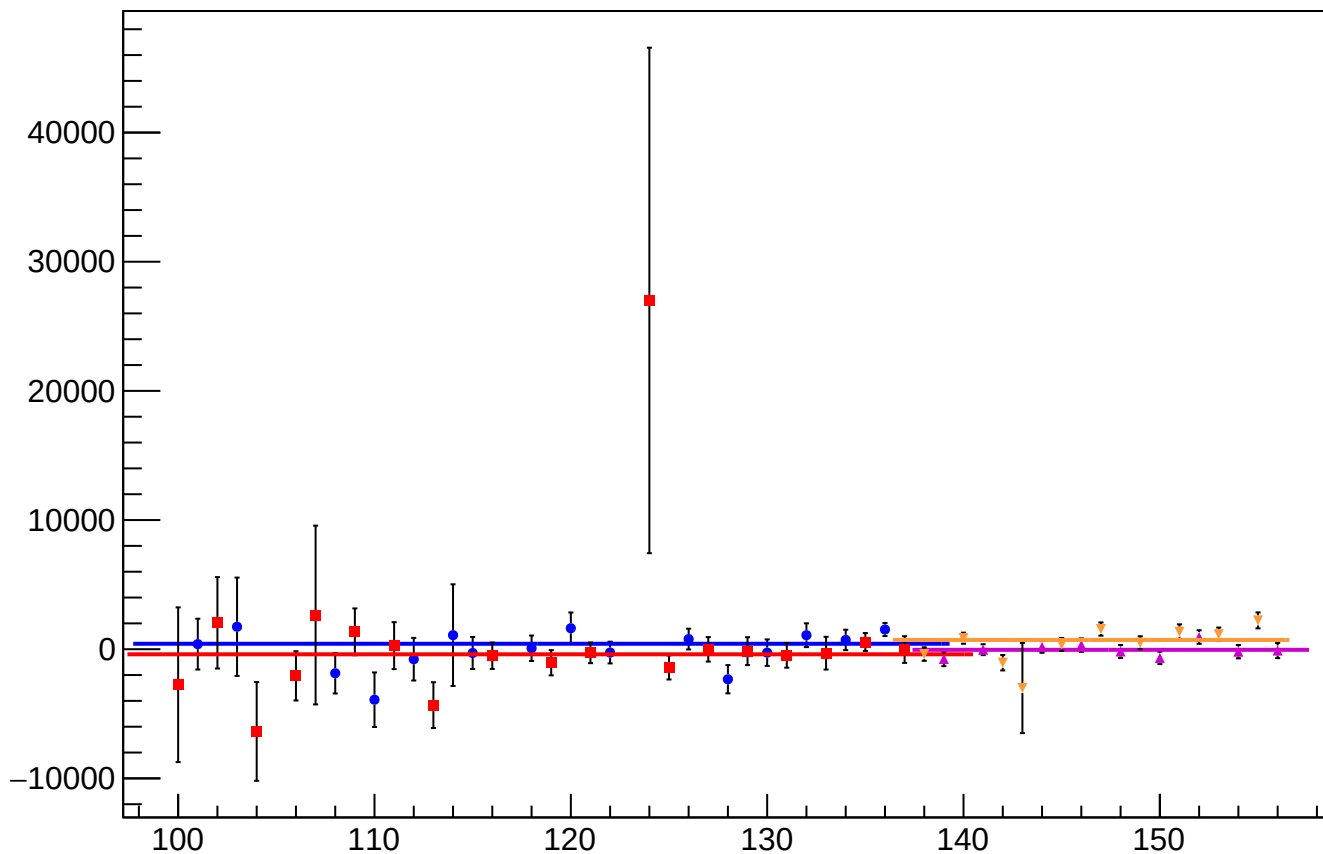
Right: 1940.298 $\pm$ 0.365 χ^2 /NDF: 916167.7/34

In: 1863.803 $\pm$ 0.343 χ^2 /NDF:674025.7/24

Out: 1822.306 $\pm$ 0.334 χ^2 /NDF:518298.6/28

All: 1842.461 $\pm$ 0.239 χ^2 /NDF: 1199843.8/53

asym_at1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 421.145 ± 256.749 χ^2/NDF : 21.5/15

Left Out: 716.219 ± 174.092 χ^2/NDF : 25.6/9

Right Out: -393.590 ± 279.562 χ^2/NDF : 15.9/18

Left In: -48.089 ± 167.084 χ^2/NDF : 7.7/8

Left: 318.372 ± 120.547 χ^2/NDF : 43.3/18

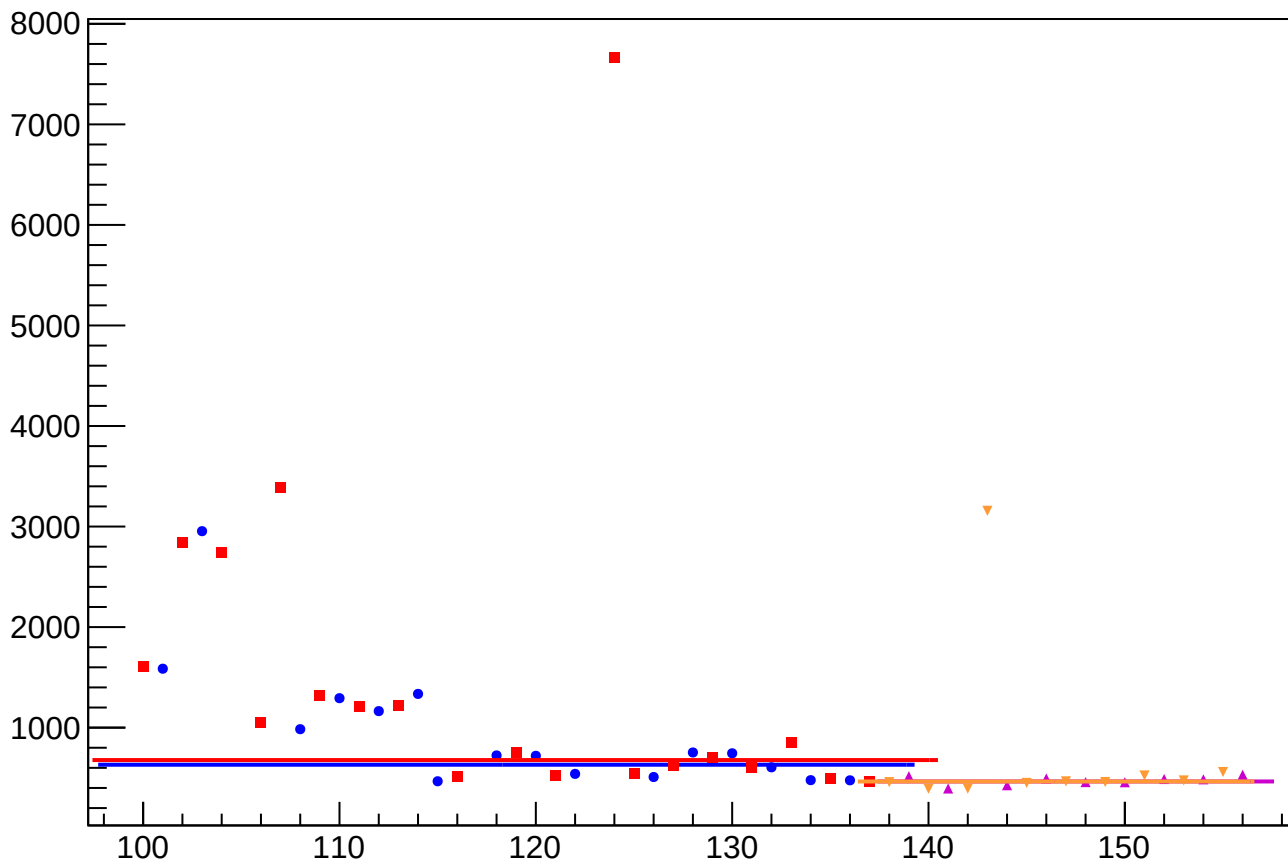
Right: 48.371 ± 189.101 χ^2/NDF : 41.9/34

In: 91.510 ± 140.041 χ^2/NDF : 31.5/24

Out: 406.104 ± 147.780 χ^2/NDF : 52.8/28

All: 240.354 ± 101.650 χ^2/NDF : 86.7/53

asym_at1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 631.140+/-0.182 χ^2/NDF : 2234480.1/15

Left Out: 464.441+/-0.123 χ^2/NDF :1344089.0/9

Right Out: 677.438+/-0.198 χ^2/NDF : 3081569.8/18

Left In: 464.682+/-0.118 χ^2/NDF :126648.1/8

Left: 464.567+/-0.085 χ^2/NDF : 1470739.1/18

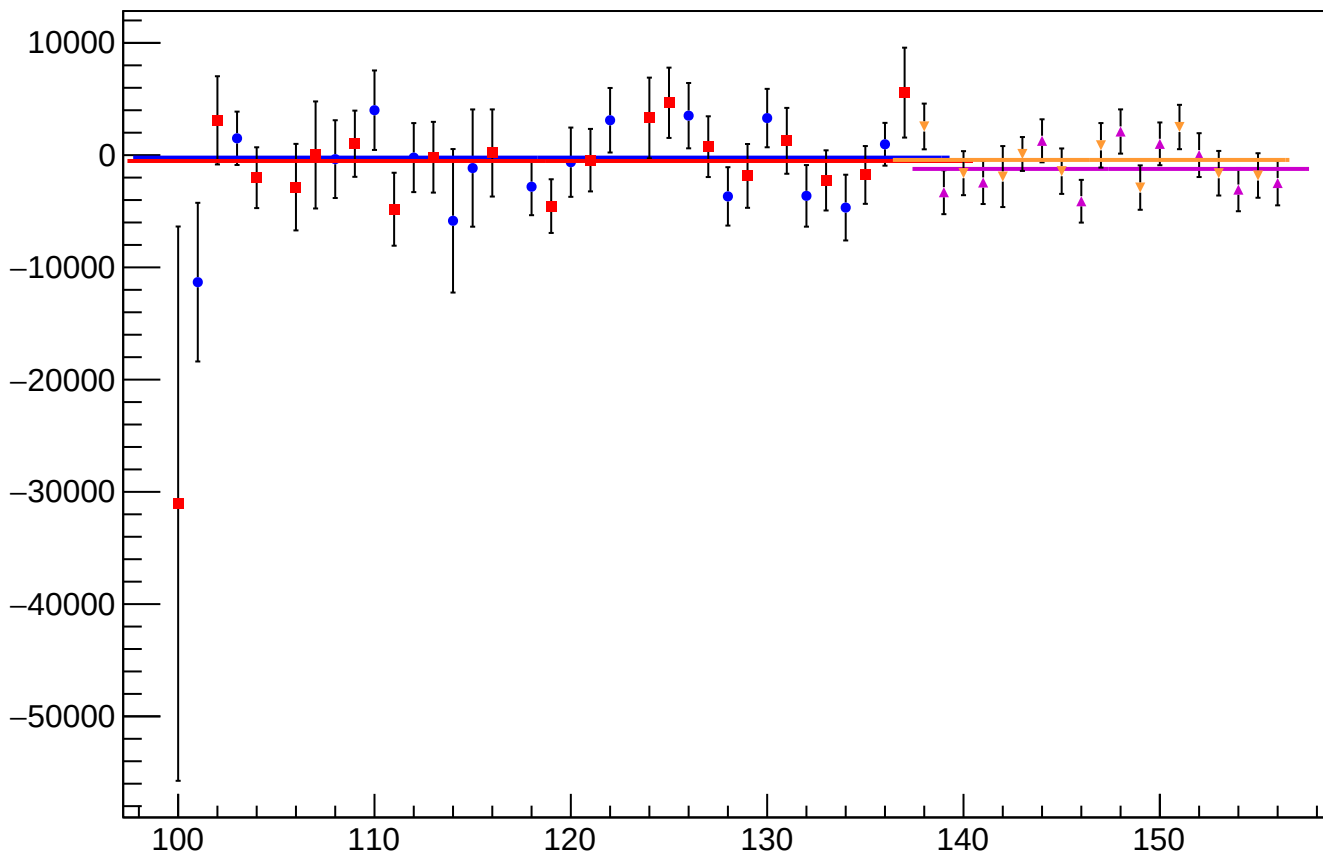
Right: 652.323+/-0.134 χ^2/NDF : 5345805.1/34

In: 514.204+/-0.099 χ^2/NDF :2951684.1/24

Out: 523.959+/-0.104 χ^2/NDF :5262212.6/28

All: 518.819+/-0.072 χ^2/NDF : 8218487.9/53

eigen_dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -426.485+/-621.031 χ^2/NDF : 8.2/9

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -1227.826+/-645.687 χ^2/NDF : 11.5/8

Left: -811.564+/-447.598 χ^2/NDF : 20.5/18

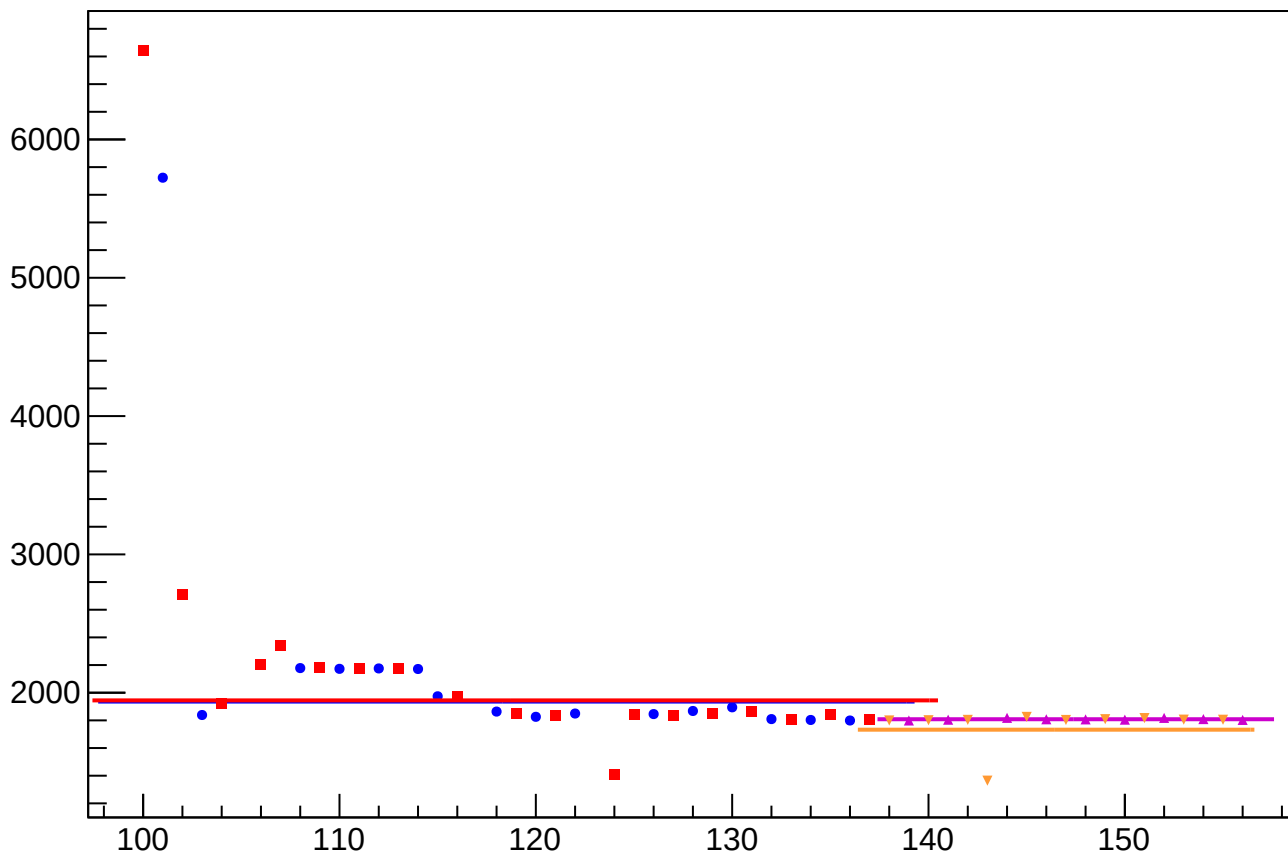
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -789.605+/-485.345 χ^2/NDF : 29.6/24

Out: -466.176+/-471.644 χ^2/NDF : 23.8/28

All: -623.261+/-338.243 χ^2/NDF : 53.7/53

eigen_dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974+/-0.520 χ^2/NDF : 639808.0/15

Left Out: 1732.645+/-0.439 χ^2/NDF :143574.6/9

Right Out: 1944.495+/-0.513 χ^2/NDF : 276223.5/18

Left In: 1808.241+/-0.457 χ^2/NDF :171.1/8

Left: 1768.972+/-0.316 χ^2/NDF : 157986.4/18

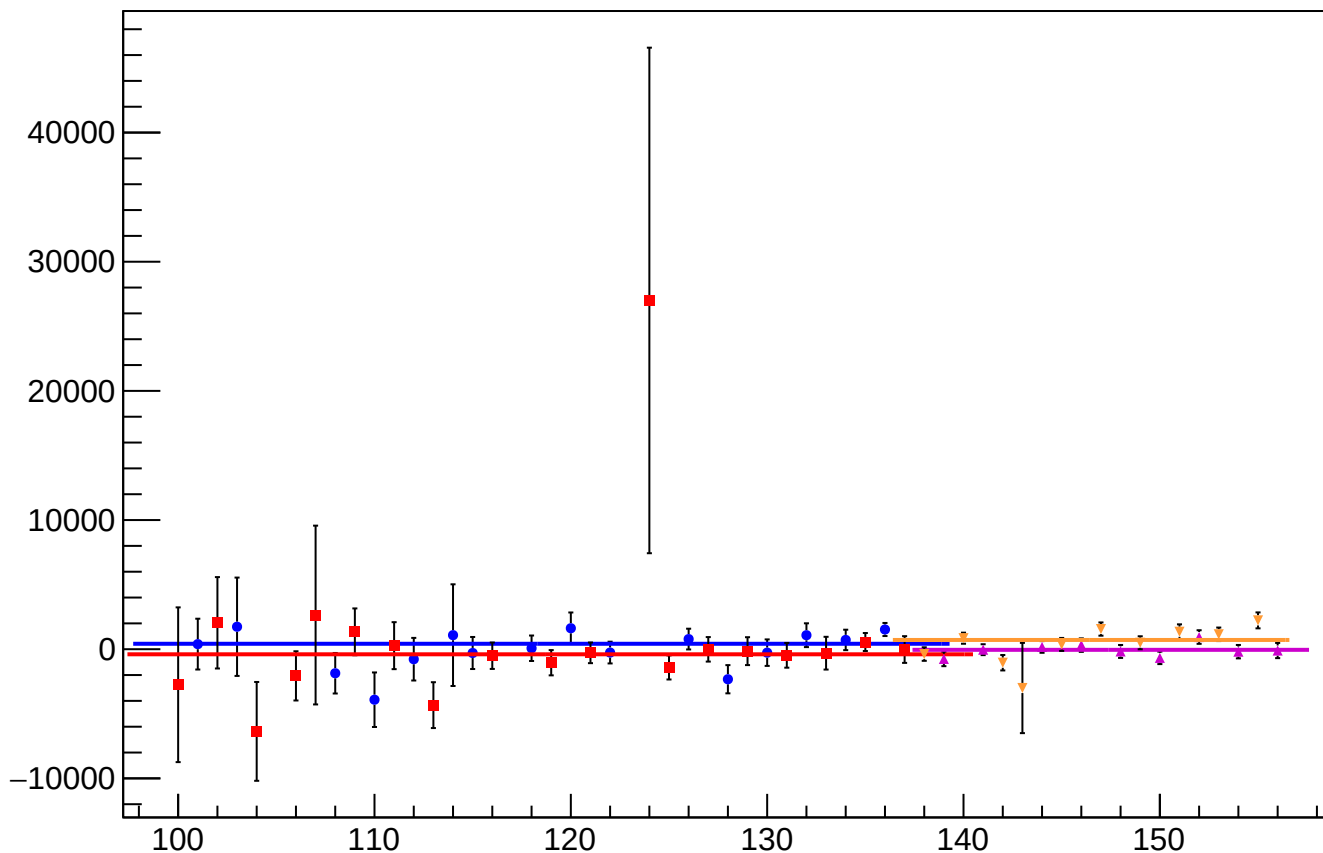
Right: 1940.298+/-0.365 χ^2/NDF : 916167.5/34

In: 1863.803+/-0.343 χ^2/NDF :674025.7/24

Out: 1822.306+/-0.334 χ^2/NDF :518298.4/28

All: 1842.461+/-0.239 χ^2/NDF : 1199843.6/53

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: 716.218+/-174.092 χ^2/NDF :25.6/9

Right Out: -393.591+/-279.562 χ^2/NDF : 15.9/18

Left In: -48.089+/-167.084 χ^2/NDF :7.7/8

Left: 318.372+/-120.547 χ^2/NDF : 43.3/18

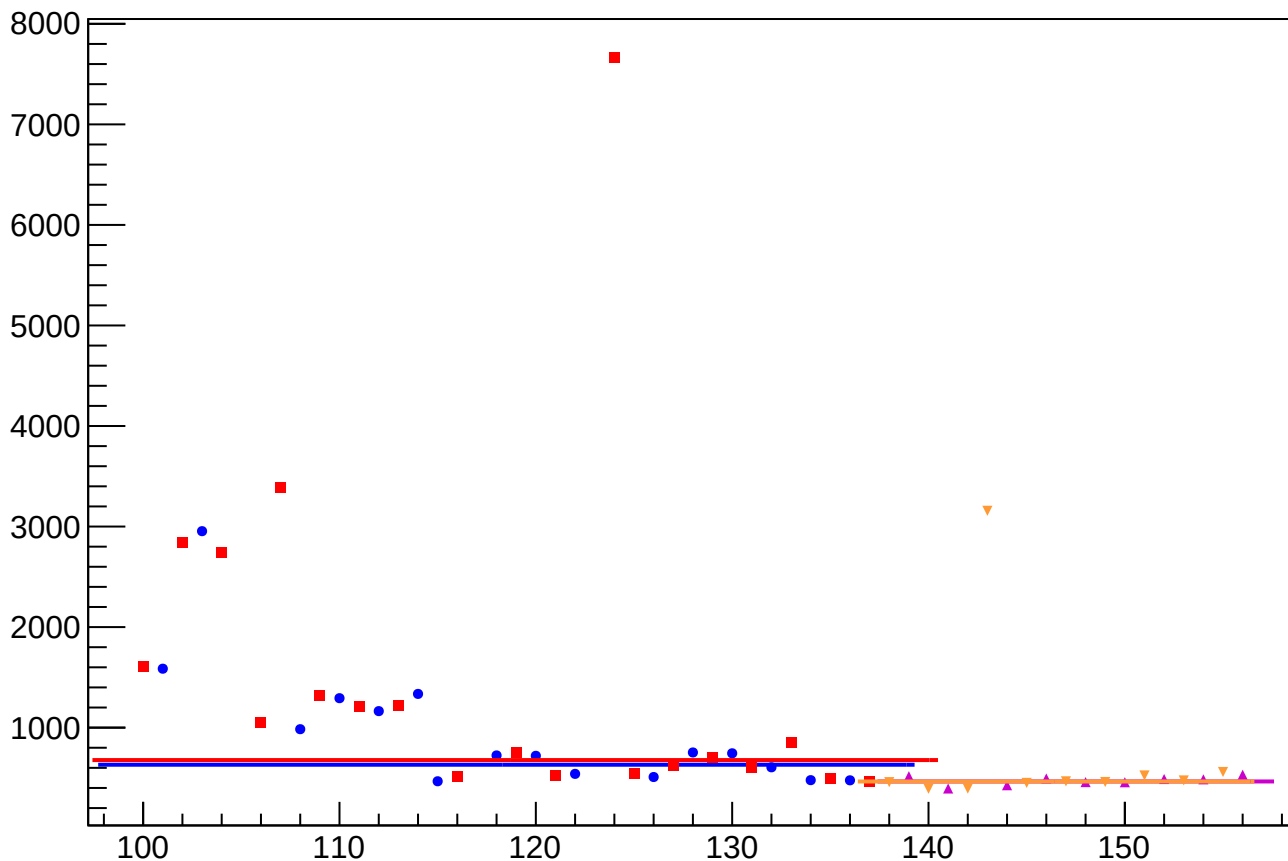
Right: 48.371+/-189.101 χ^2/NDF : 41.9/34

In: 91.510+/-140.041 χ^2/NDF :31.5/24

Out: 406.104+/-147.780 χ^2/NDF :52.8/28

All: 240.354+/-101.650 χ^2/NDF : 86.7/53

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: 464.440+/-0.123 χ^2/NDF :1344090.9/9

Right Out: 677.437+/-0.198 χ^2/NDF : 3081570.5/18

Left In: 464.682+/-0.118 χ^2/NDF :126650.6/8

Left: 464.566+/-0.085 χ^2/NDF : 1470743.5/18

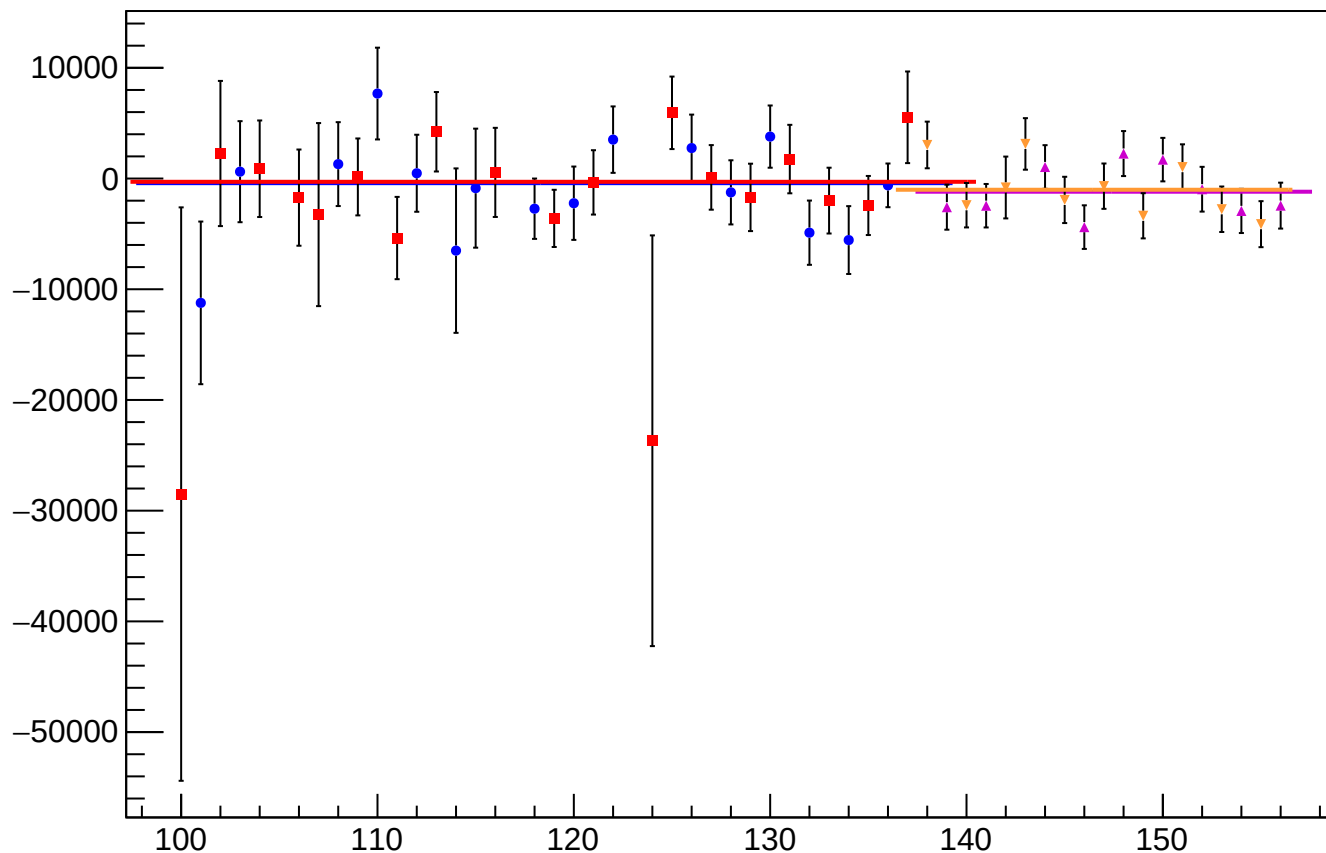
Right: 652.323+/-0.134 χ^2/NDF : 5345804.8/34

In: 514.204+/-0.099 χ^2/NDF :2951685.0/24

Out: 523.958+/-0.104 χ^2/NDF :5262218.4/28

All: 518.819+/-0.072 χ^2/NDF : 8218494.2/53

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -417.662 ± 815.370 $\chi^2/\text{NDF}: 18.3/15$

Left Out: -1013.075 ± 674.437 $\chi^2/\text{NDF}: 12.8/9$

Right Out: -294.527 ± 831.610 $\chi^2/\text{NDF}: 15.6/18$

Left In: -1190.963 ± 667.228 $\chi^2/\text{NDF}: 11.0/8$

Left: -1102.975 ± 474.330 $\chi^2/\text{NDF}: 23.9/18$

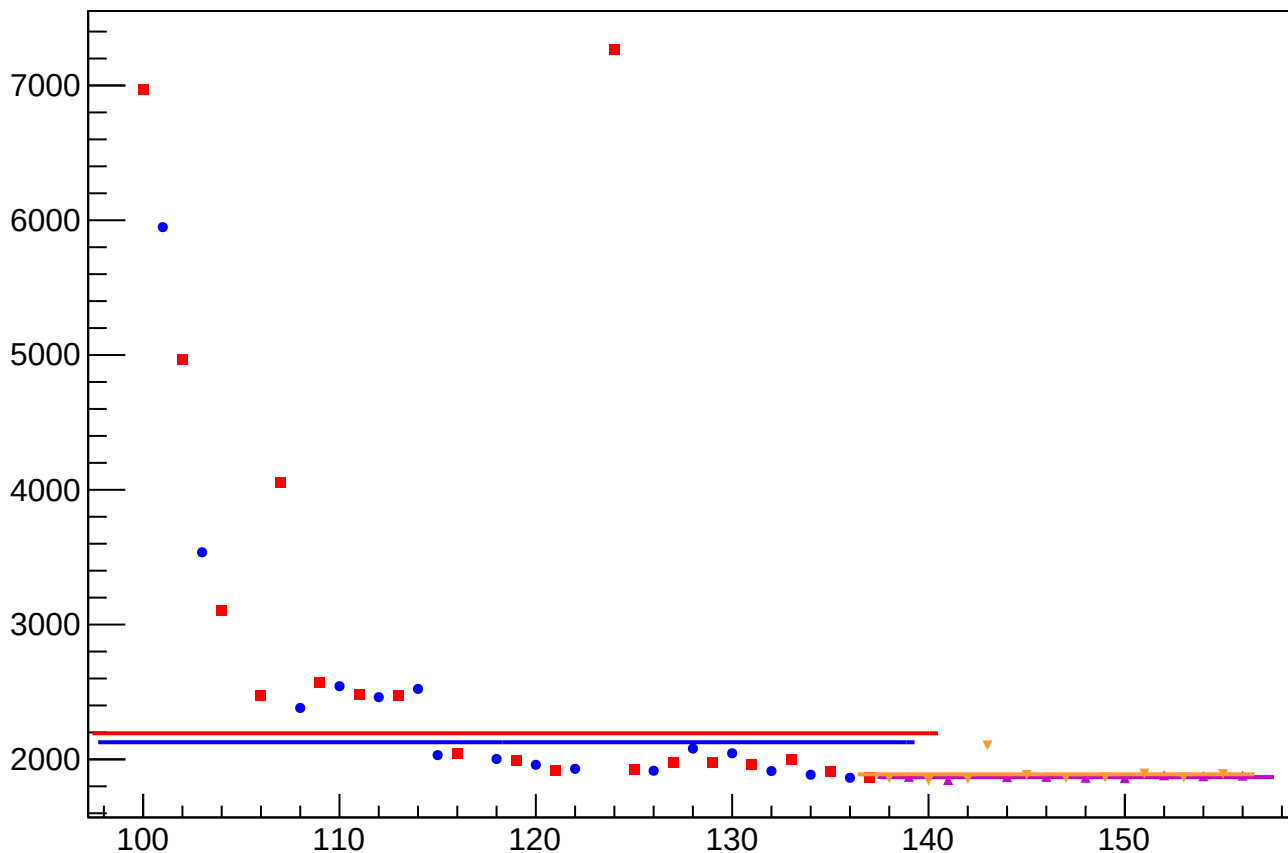
Right: -357.308 ± 582.210 $\chi^2/\text{NDF}: 34.0/34$

In: -880.817 ± 516.373 $\chi^2/\text{NDF}: 29.9/24$

Out: -727.981 ± 523.824 $\chi^2/\text{NDF}: 28.9/28$

All: -805.494 ± 367.737 $\chi^2/\text{NDF}: 58.8/53$

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2127.041+/-0.577 χ^2/NDF : 875078.1/15

Left Out: 1889.156+/-0.477 χ^2/NDF :19465.6/9

Right Out: 2193.560+/-0.588 χ^2/NDF : 942581.2/18

Left In: 1868.526+/-0.472 χ^2/NDF :443.8/8

Left: 1878.731+/-0.335 χ^2/NDF : 20855.1/18

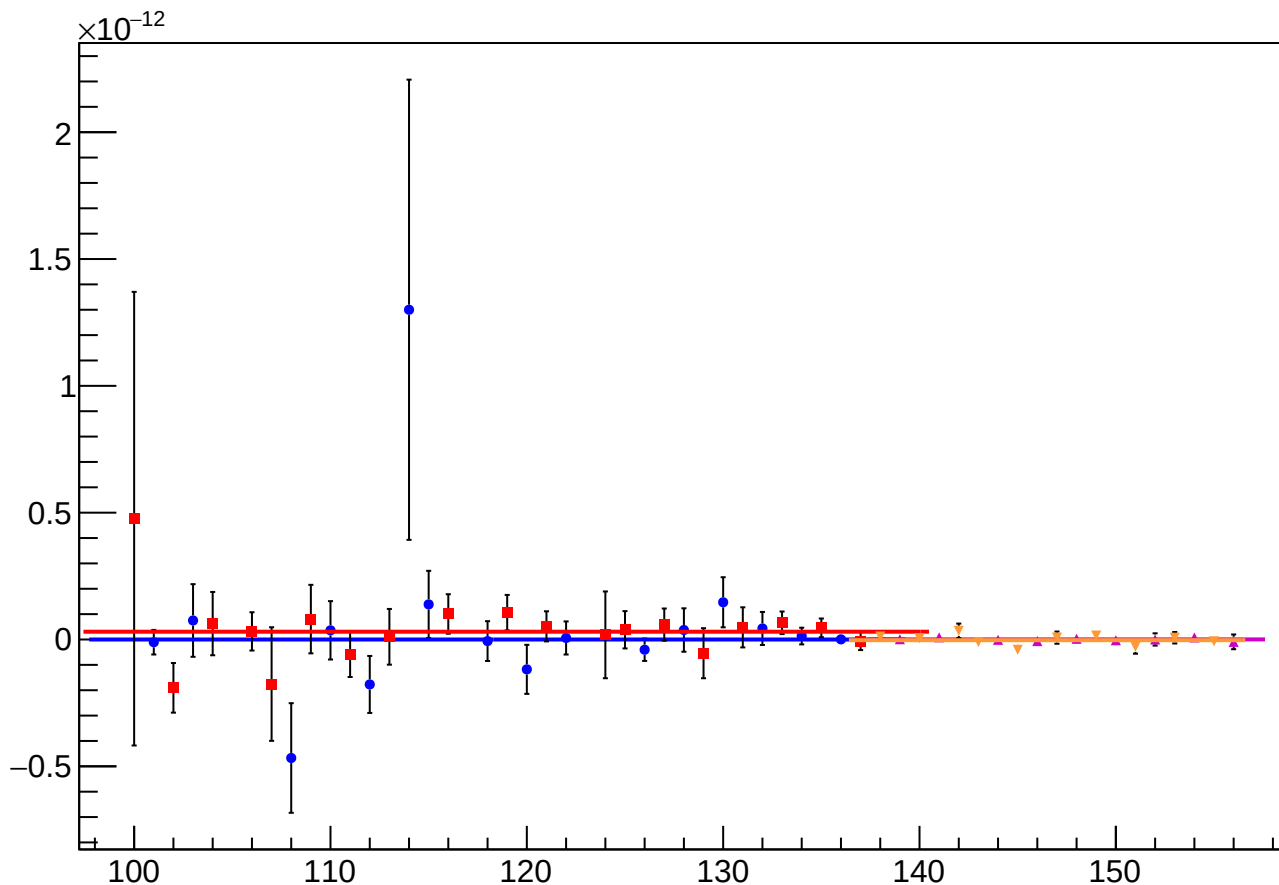
Right: 2159.645+/-0.412 χ^2/NDF : 1824183.5/34

In: 1972.208+/-0.365 χ^2/NDF :995934.0/24

Out: 2009.933+/-0.370 χ^2/NDF :1123698.1/28

All: 1990.800+/-0.260 χ^2/NDF : 2124892.9/53

asym_at1_dd_reg_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 : 10.6/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 12.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 1.3/8

Left: -0.000 ± 0.000 χ^2/NDF : 12.1/18

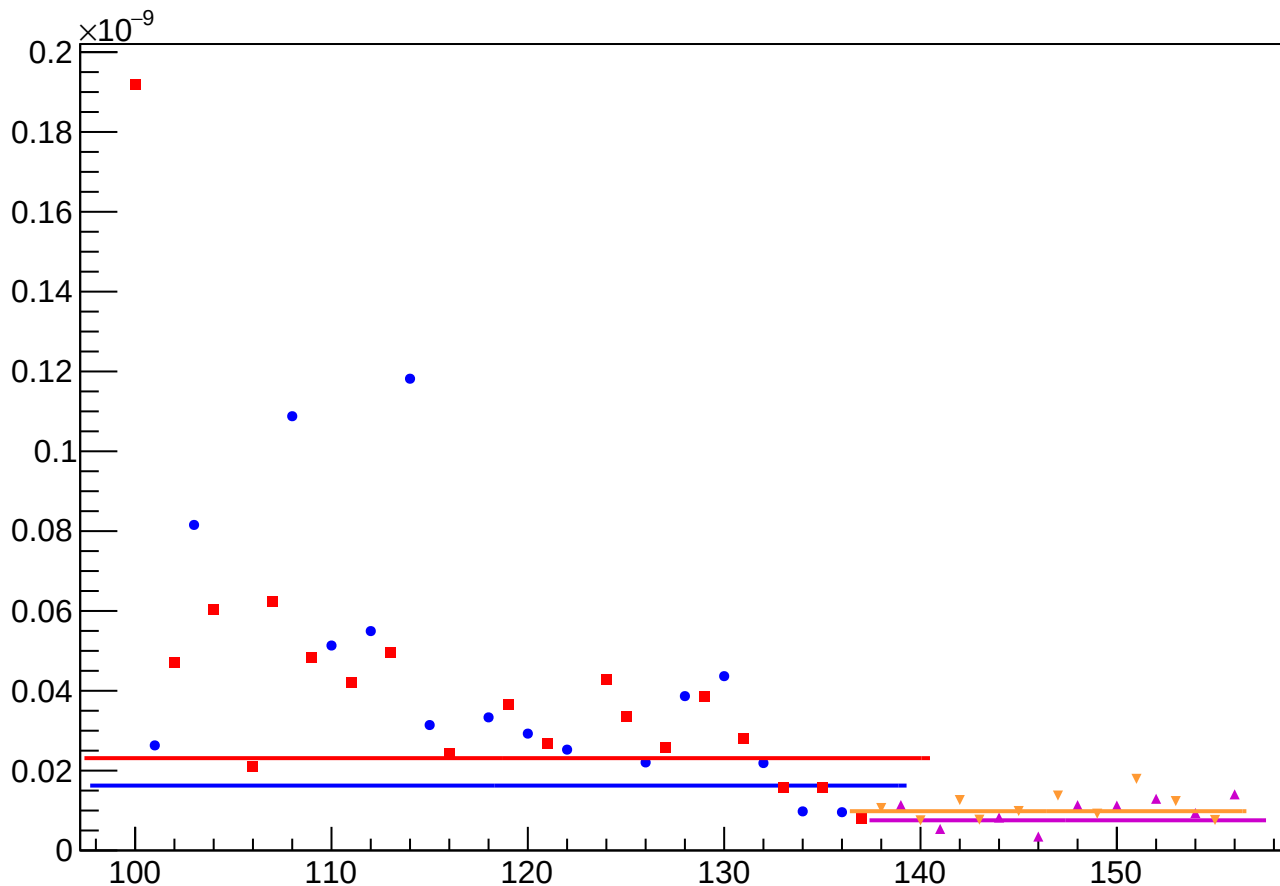
Right: 0.000 ± 0.000 χ^2/NDF : 30.9/34

In: 0.000 ± 0.000 χ^2/NDF : 17.4/24

Out: 0.000 ± 0.000 χ^2/NDF : 27.0/28

All: 0.000 ± 0.000 χ^2/NDF : 44.4/53

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 : 405490.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1411720.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 871522.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1446170.2/18

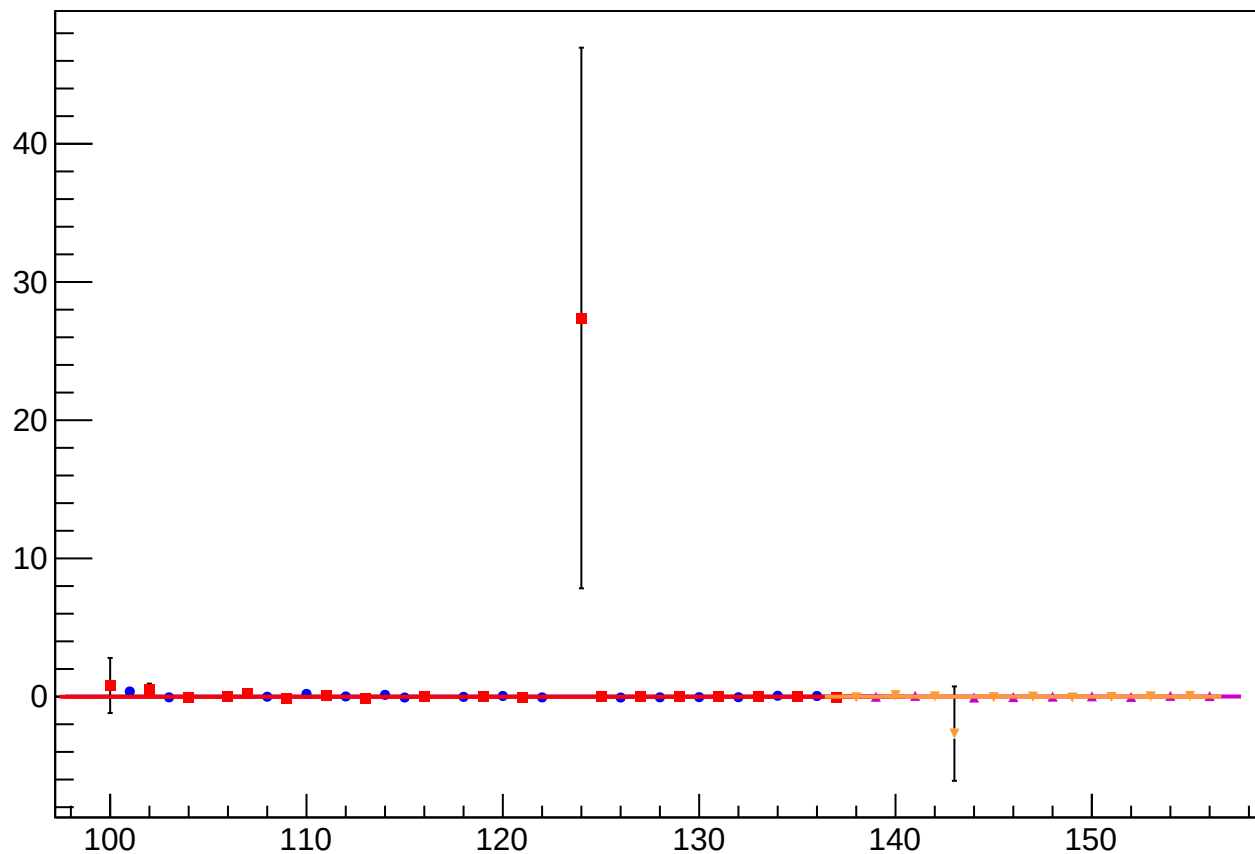
Right: 0.000+/-0.000 χ^2/NDF : 3942397.7/34

In: 0.000+/-0.000 χ^2/NDF : 4064245.7/24

Out: 0.000+/-0.000 χ^2/NDF : 3070249.0/28

All: 0.000+/-0.000 χ^2/NDF : 7378508.6/53

asym_at1_dd_dit_vs_Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15

Left Out: -0.003 $\pm$ 0.013 χ^2 /NDF:14.4/9

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.010 $\pm$ 0.013 χ^2 /NDF:10.2/8

Left: 0.004 $\pm$ 0.009 χ^2 /NDF: 25.0/18

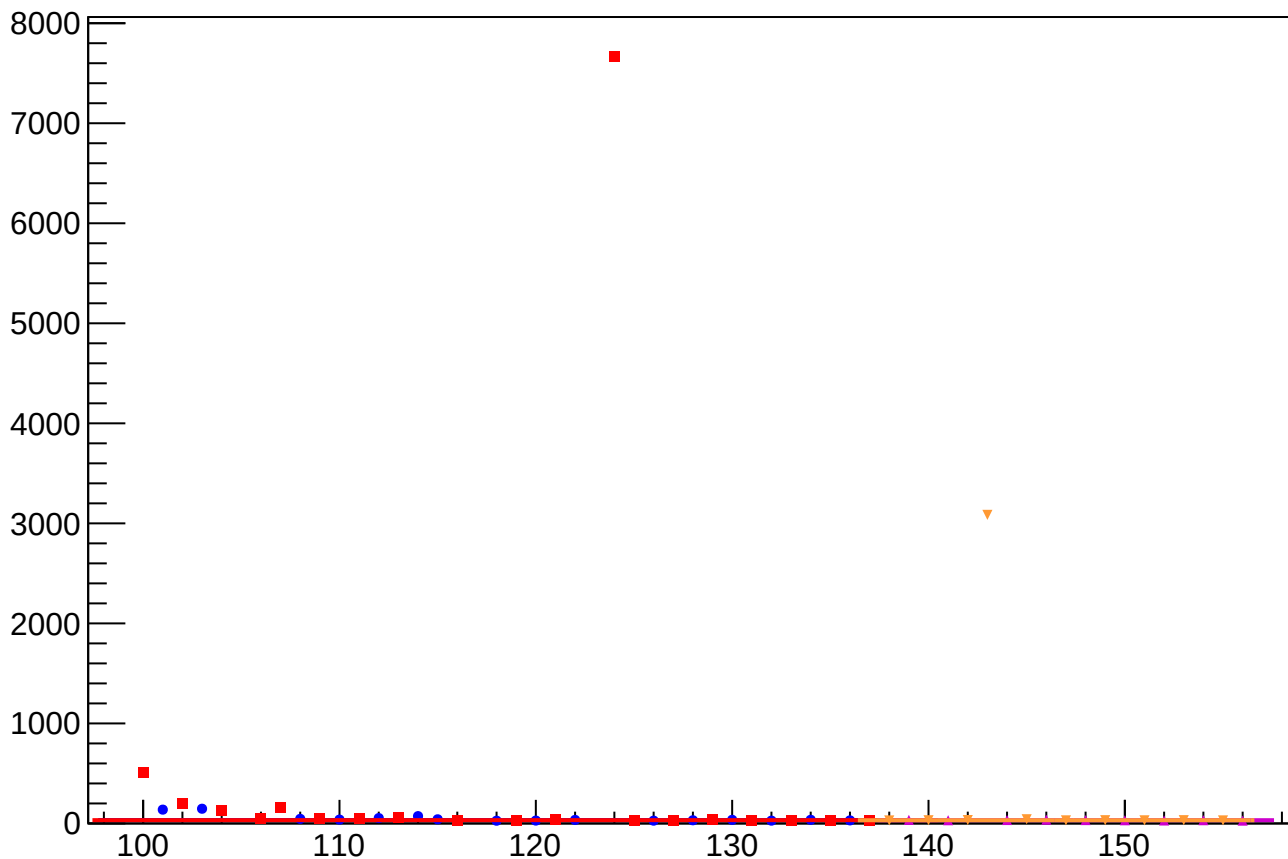
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.006 $\pm$ 0.010 χ^2 /NDF:31.4/24

Out: -0.007 $\pm$ 0.010 χ^2 /NDF:28.8/28

All: 0.000 $\pm$ 0.007 χ^2 /NDF: 61.1/53

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: 32.394+/-0.009 χ^2/NDF : 1695353.8/9

Right Out: 33.084+/-0.011 χ^2/NDF : 2075124.6/18

Left In: 32.609+/-0.009 χ^2/NDF : 84658.6/8

Left: 32.506+/-0.006 χ^2/NDF : 1780287.8/18

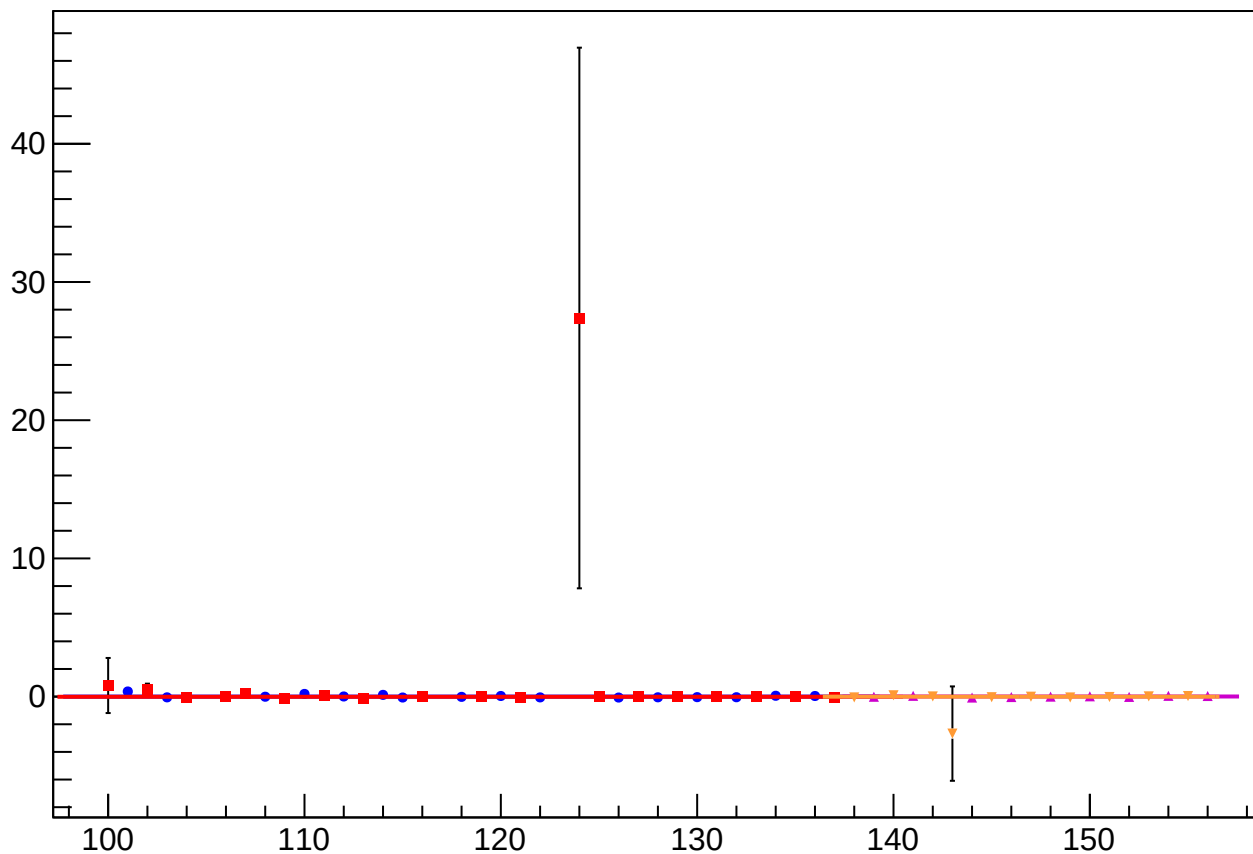
Right: 33.573+/-0.007 χ^2/NDF : 3796696.6/34

In: 33.221+/-0.007 χ^2/NDF : 1813014.2/24

Out: 32.698+/-0.007 χ^2/NDF : 3772883.9/28

All: 32.967+/-0.005 χ^2/NDF : 5588781.5/53

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: -0.003 $\pm$ 0.013 χ^2 /NDF:14.4/9

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.010 $\pm$ 0.013 χ^2 /NDF:10.2/8

Left: 0.004 $\pm$ 0.009 χ^2 /NDF: 25.0/18

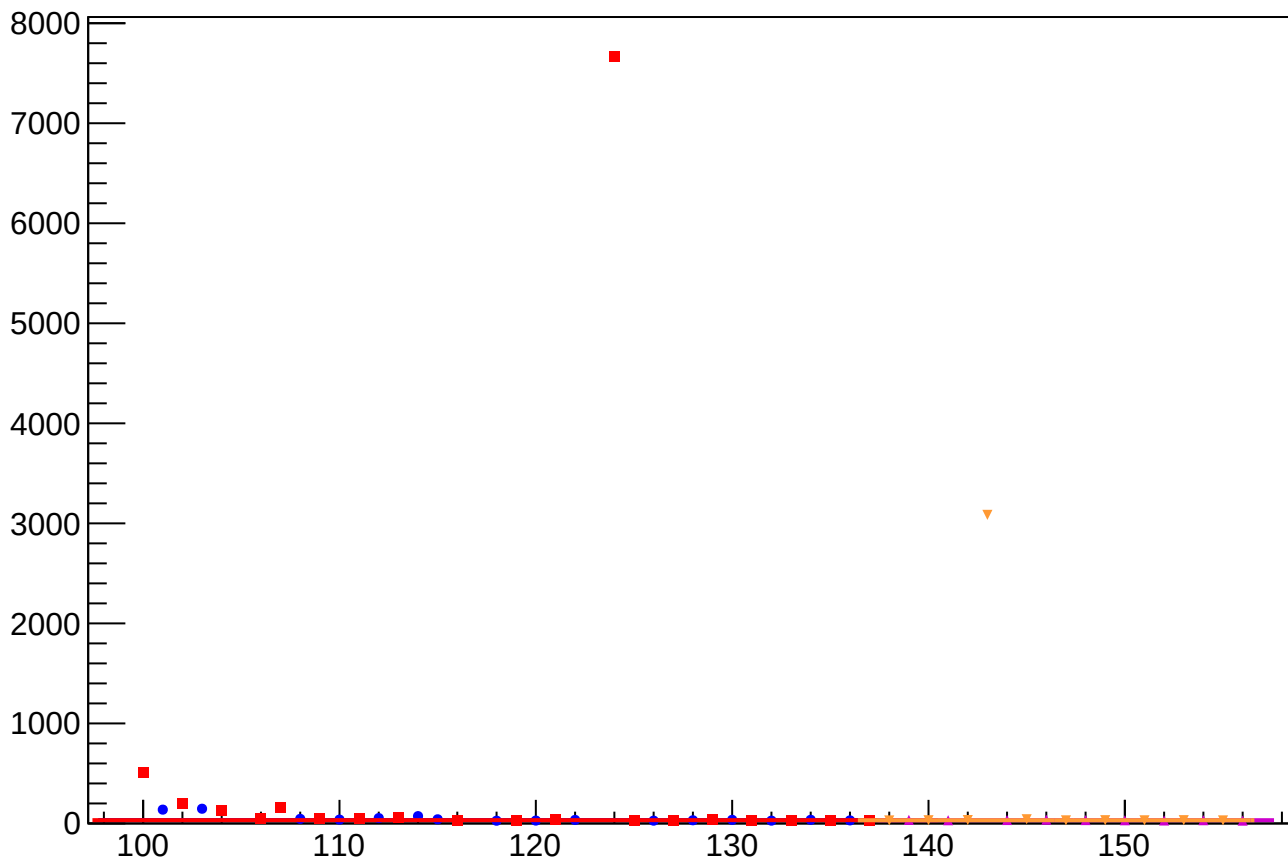
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.006 $\pm$ 0.010 χ^2 /NDF:31.4/24

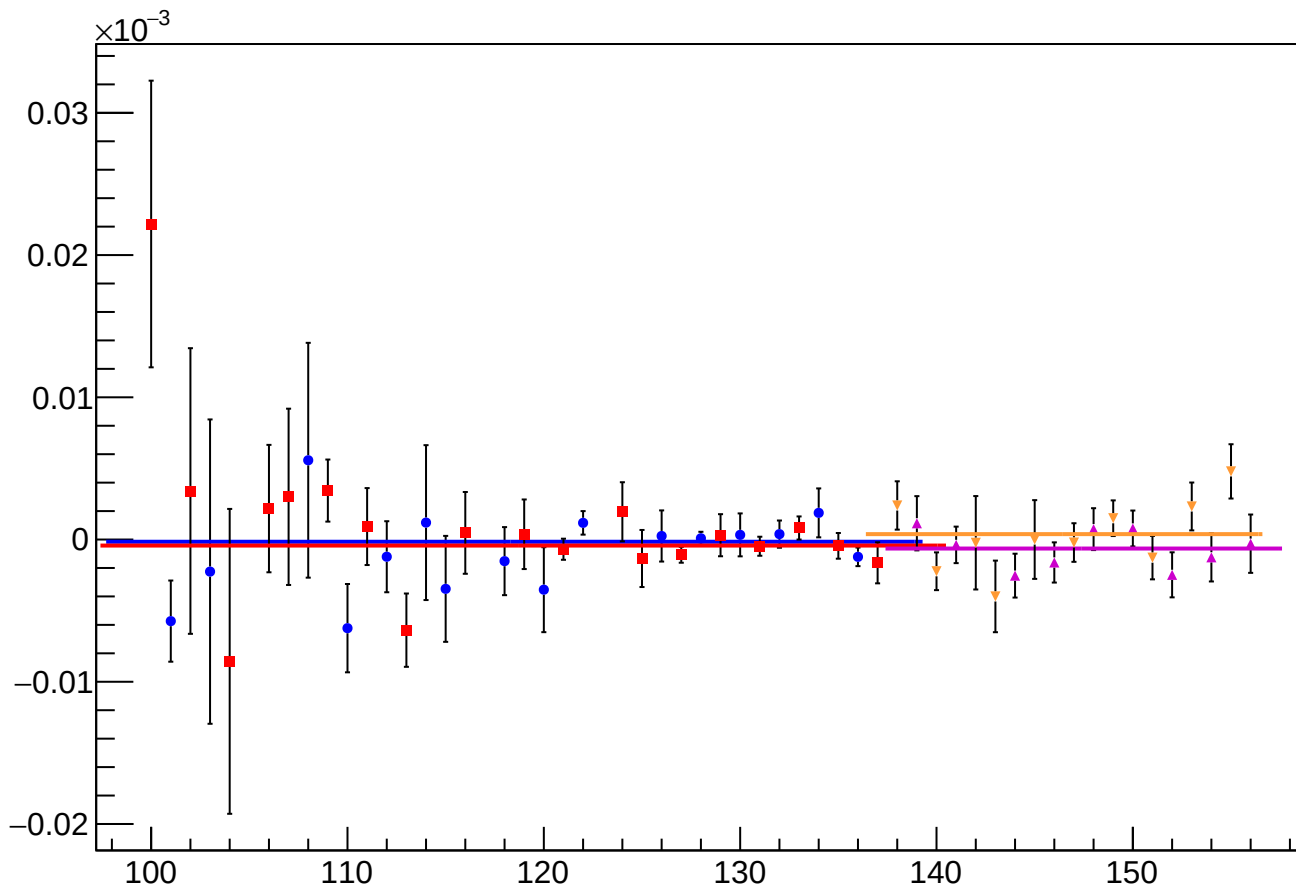
Out: -0.007 $\pm$ 0.010 χ^2 /NDF:28.8/28

All: 0.000 $\pm$ 0.007 χ^2 /NDF: 61.1/53

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



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 :17.2/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.6/18

Left In: -0.000+/-0.000 χ^2/NDF :6.5/8

Left: -0.000+/-0.000 χ^2/NDF : 25.6/18

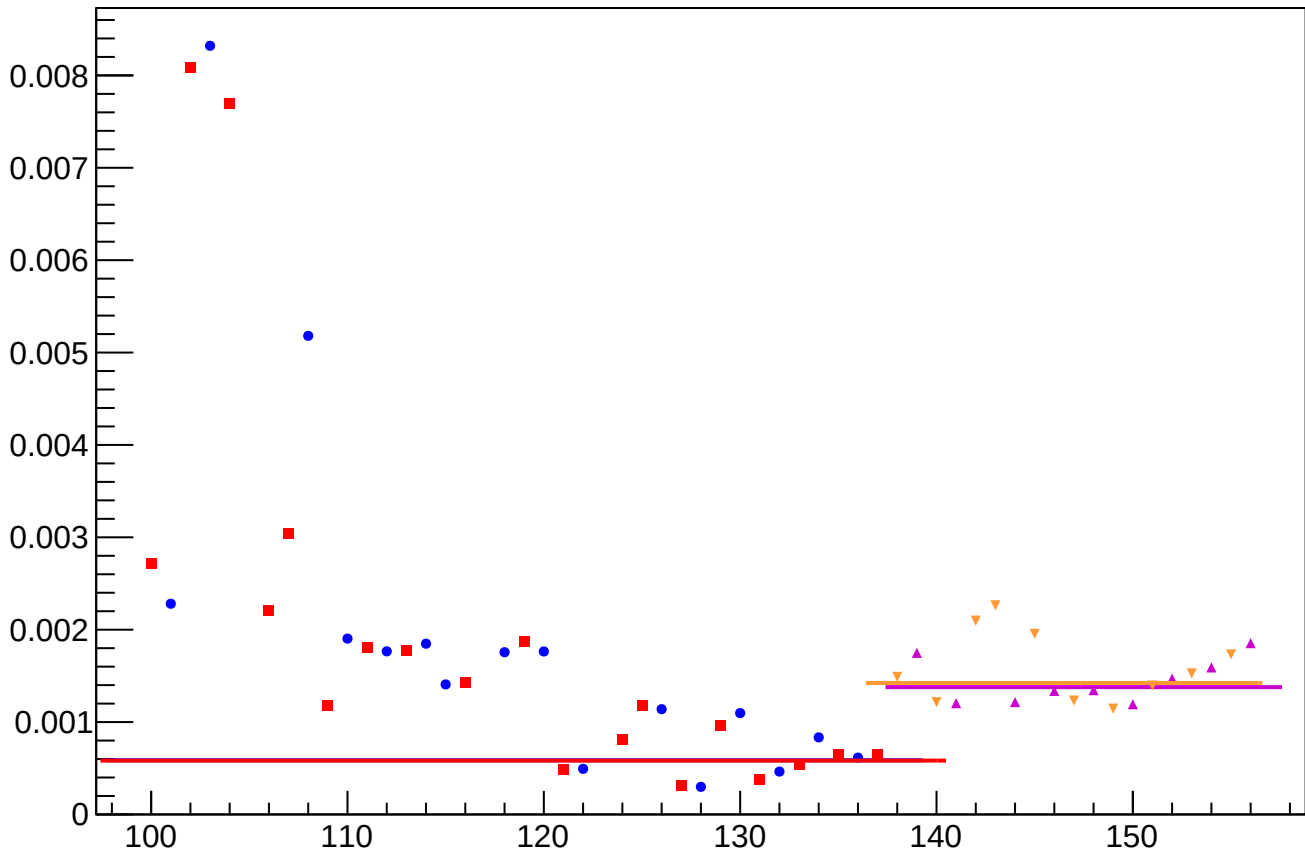
Right: -0.000+/-0.000 χ^2/NDF : 40.2/34

In: -0.000+/-0.000 χ^2/NDF :25.4/24

Out: -0.000+/-0.000 χ^2/NDF :40.5/28

All: -0.000+/-0.000 χ^2/NDF : 65.9/53

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 :632137.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 5431787.1/18

Left In: 0.001+/-0.000 χ^2/NDF :326505.4/8

Left: 0.001+/-0.000 χ^2/NDF : 966003.8/18

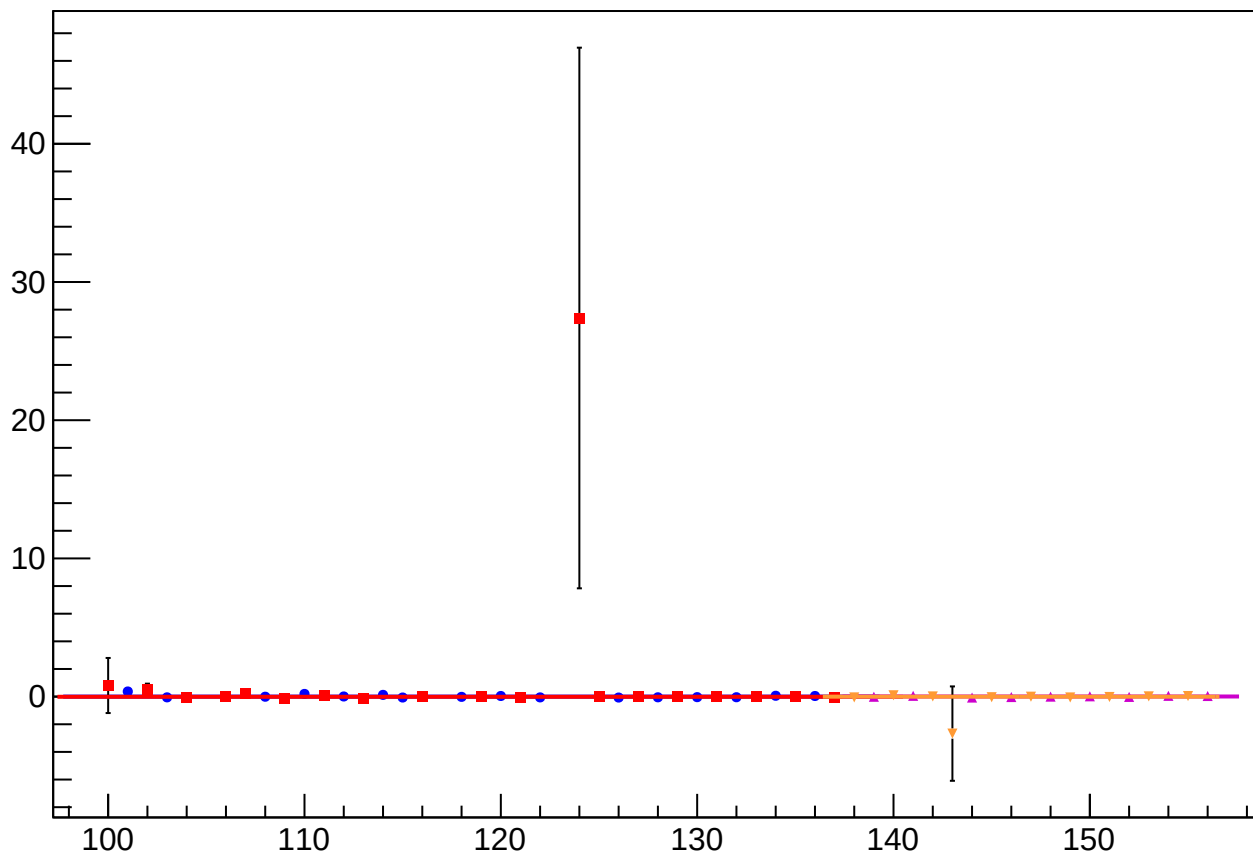
Right: 0.001+/-0.000 χ^2/NDF : 10917885.2/34

In: 0.001+/-0.000 χ^2/NDF :9455741.3/24

Out: 0.001+/-0.000 χ^2/NDF :9936749.1/28

All: 0.001+/-0.000 χ^2/NDF : 19395926.3/53

asym_at1_dd_eigen_dit_vs_Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15

Left Out: -0.003 $\pm$ 0.013 χ^2 /NDF:14.4/9

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.010 $\pm$ 0.013 χ^2 /NDF:10.2/8

Left: 0.004 $\pm$ 0.009 χ^2 /NDF: 25.0/18

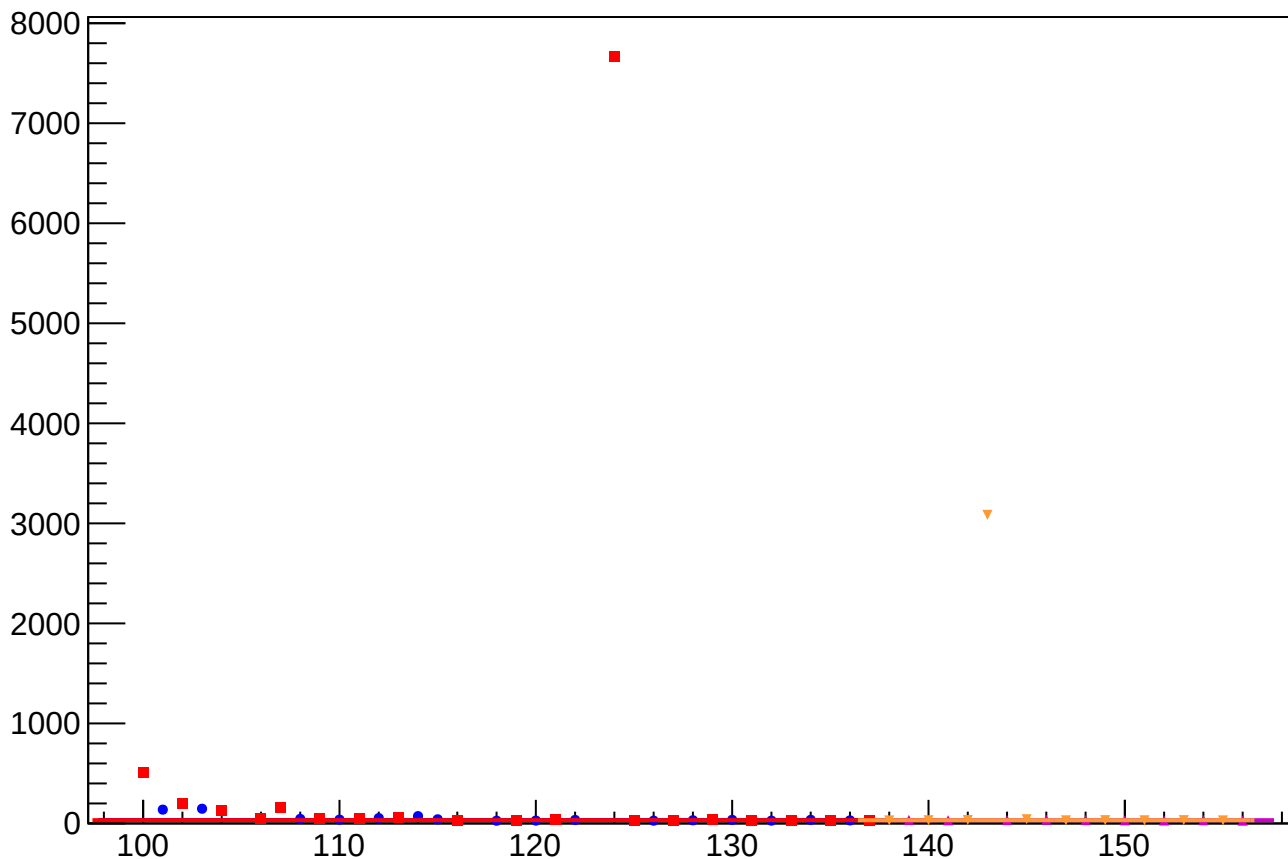
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.006 $\pm$ 0.010 χ^2 /NDF:31.4/24

Out: -0.007 $\pm$ 0.010 χ^2 /NDF:28.8/28

All: 0.000 $\pm$ 0.007 χ^2 /NDF: 61.1/53

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055 $\pm$ 0.010 χ^2 /NDF: 1717254.5/15

Left Out: 32.394 $\pm$ 0.009 χ^2 /NDF:1695356.7/9

Right Out: 33.083 $\pm$ 0.011 χ^2 /NDF: 2075105.8/18

Left In: 32.609 $\pm$ 0.009 χ^2 /NDF:84650.3/8

Left: 32.506 $\pm$ 0.006 χ^2 /NDF: 1780283.1/18

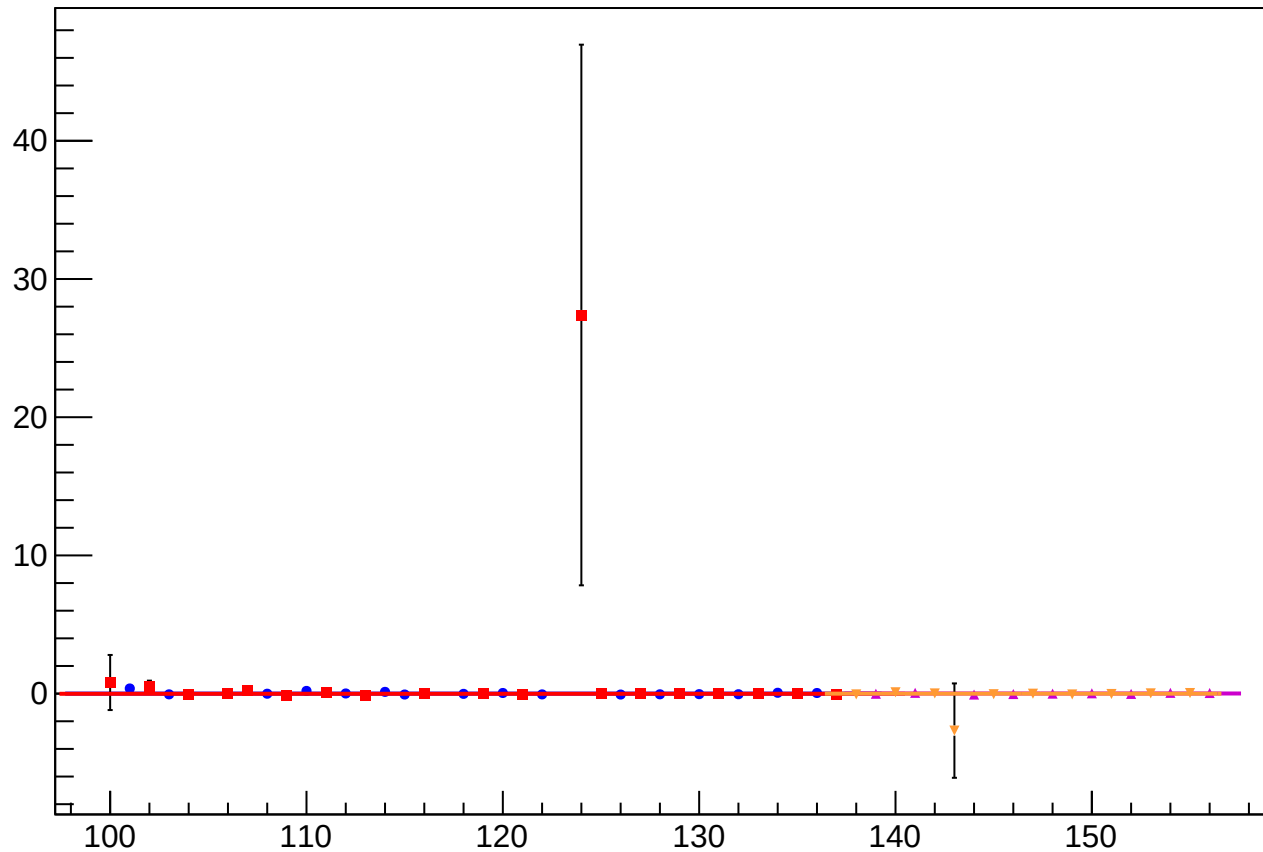
Right: 33.573 $\pm$ 0.007 χ^2 /NDF: 3796667.3/34

In: 33.221 $\pm$ 0.007 χ^2 /NDF:1812992.7/24

Out: 32.698 $\pm$ 0.007 χ^2 /NDF:3772868.4/28

All: 32.967 $\pm$ 0.005 χ^2 /NDF: 5588746.8/53

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002+/-0.015 χ^2/NDF : 21.0/15

Left Out: -0.003+/-0.013 χ^2/NDF : 14.4/9

Right Out: -0.012+/-0.015 χ^2/NDF : 14.2/18

Left In: 0.010+/-0.013 χ^2/NDF : 10.2/8

Left: 0.004+/-0.009 χ^2/NDF : 25.0/18

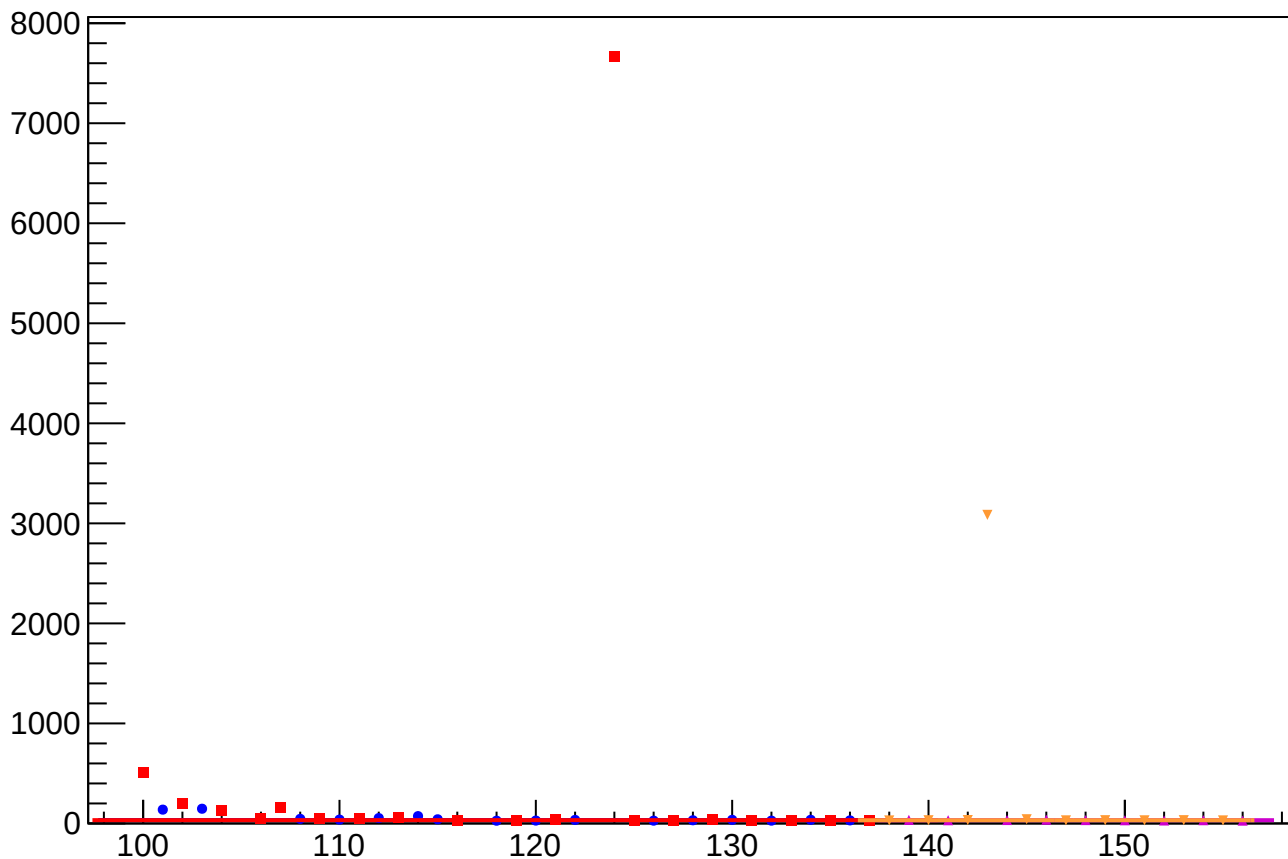
Right: -0.005+/-0.010 χ^2/NDF : 35.6/34

In: 0.006+/-0.010 χ^2/NDF : 31.4/24

Out: -0.007+/-0.010 χ^2/NDF : 28.8/28

All: 0.000+/-0.007 χ^2/NDF : 61.1/53

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: 32.394+/-0.009 χ^2/NDF : 1695356.7/9

Right Out: 33.083+/-0.011 χ^2/NDF : 2075105.8/18

Left In: 32.609+/-0.009 χ^2/NDF : 84650.3/8

Left: 32.506+/-0.006 χ^2/NDF : 1780283.1/18

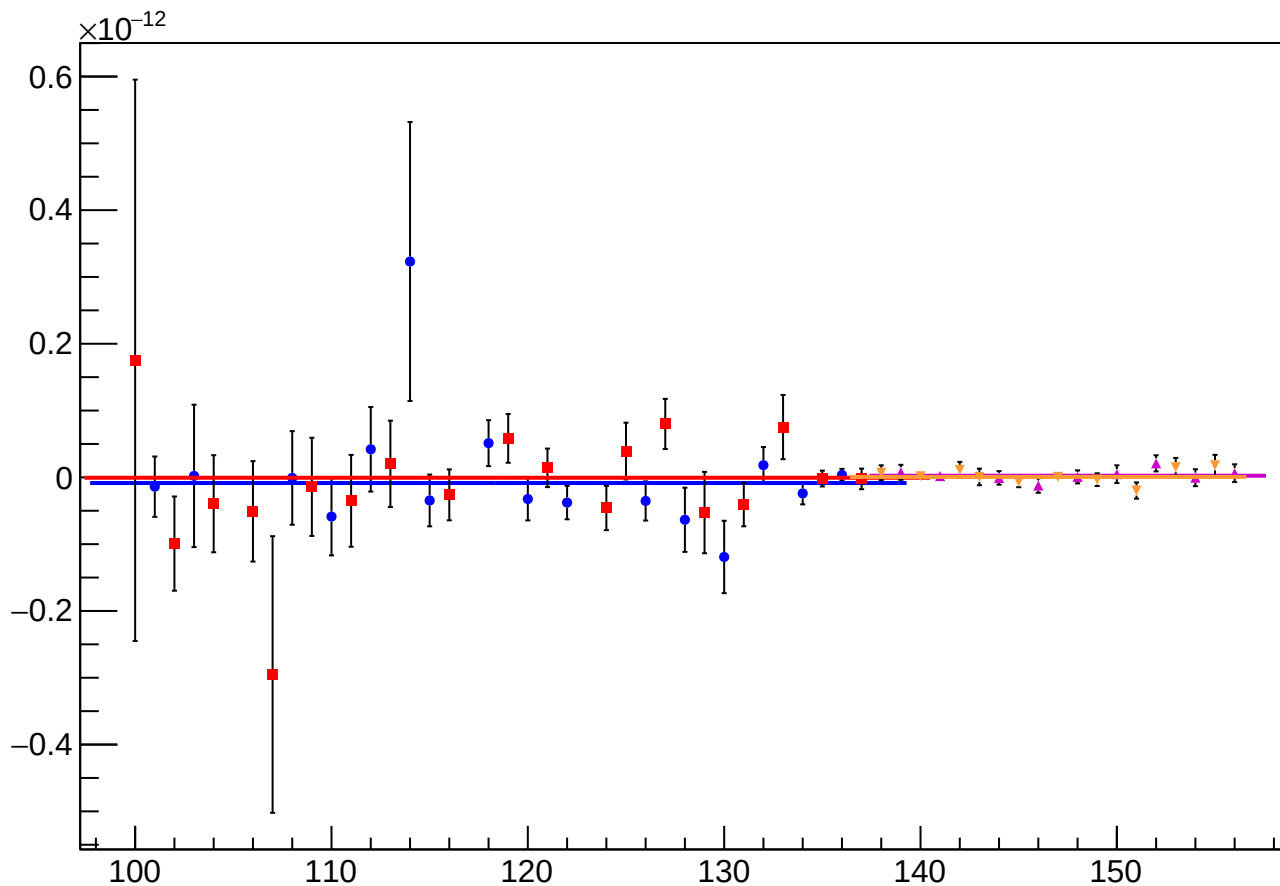
Right: 33.573+/-0.007 χ^2/NDF : 3796667.3/34

In: 33.221+/-0.007 χ^2/NDF : 1812992.7/24

Out: 32.698+/-0.007 χ^2/NDF : 3772868.4/28

All: 32.967+/-0.005 χ^2/NDF : 5588746.8/53

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:7.2/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 20.8/18

Left In: 0.000+/-0.000 χ^2 /NDF:4.7/8

Left: 0.000+/-0.000 χ^2 /NDF: 12.0/18

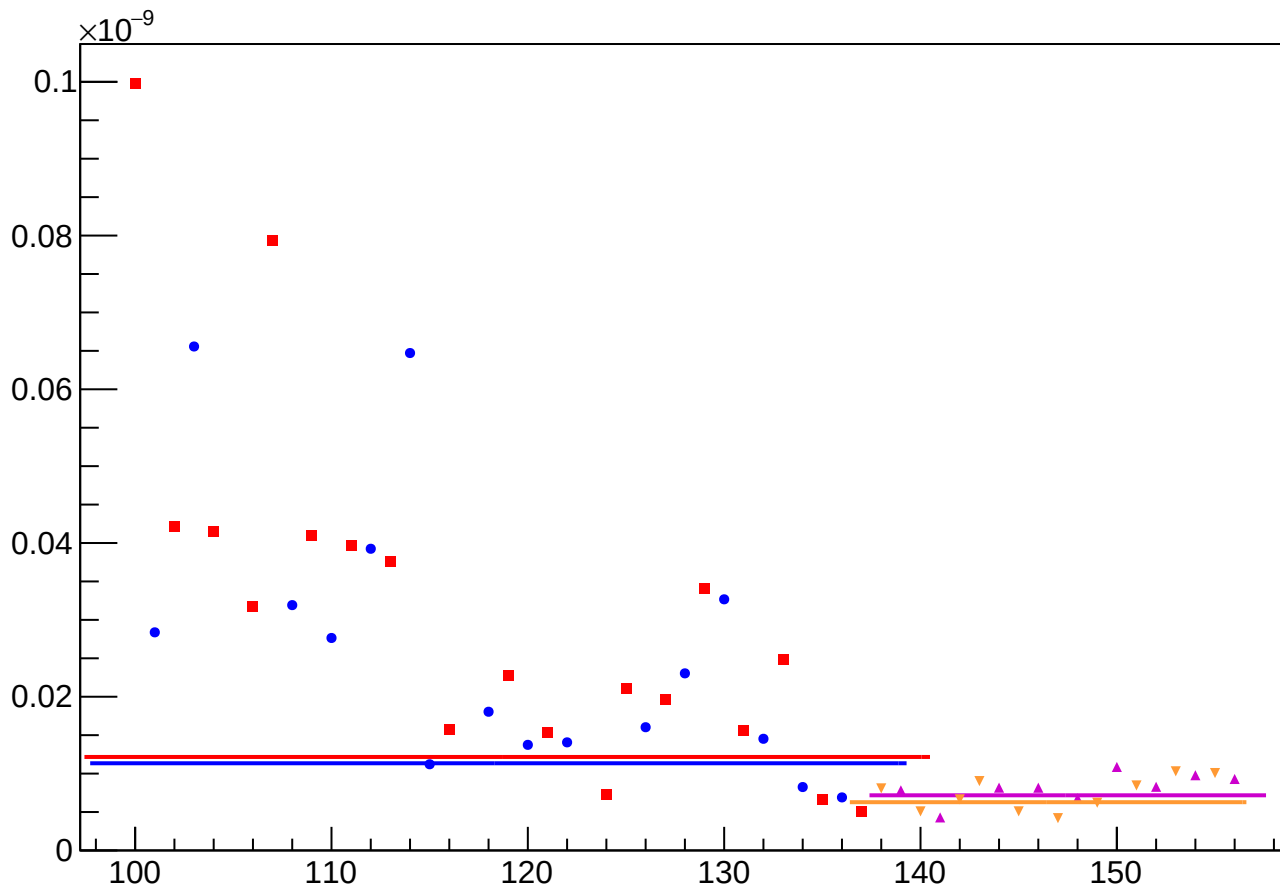
Right: -0.000+/-0.000 χ^2 /NDF: 40.7/34

In: 0.000+/-0.000 χ^2 /NDF:26.2/24

Out: 0.000+/-0.000 χ^2 /NDF:28.0/28

All: 0.000+/-0.000 χ^2 /NDF: 54.2/53

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2813598.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 768542.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3757412.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 791647.4/8

Left: 0.000+/-0.000 χ^2/NDF : 1637314.6/18

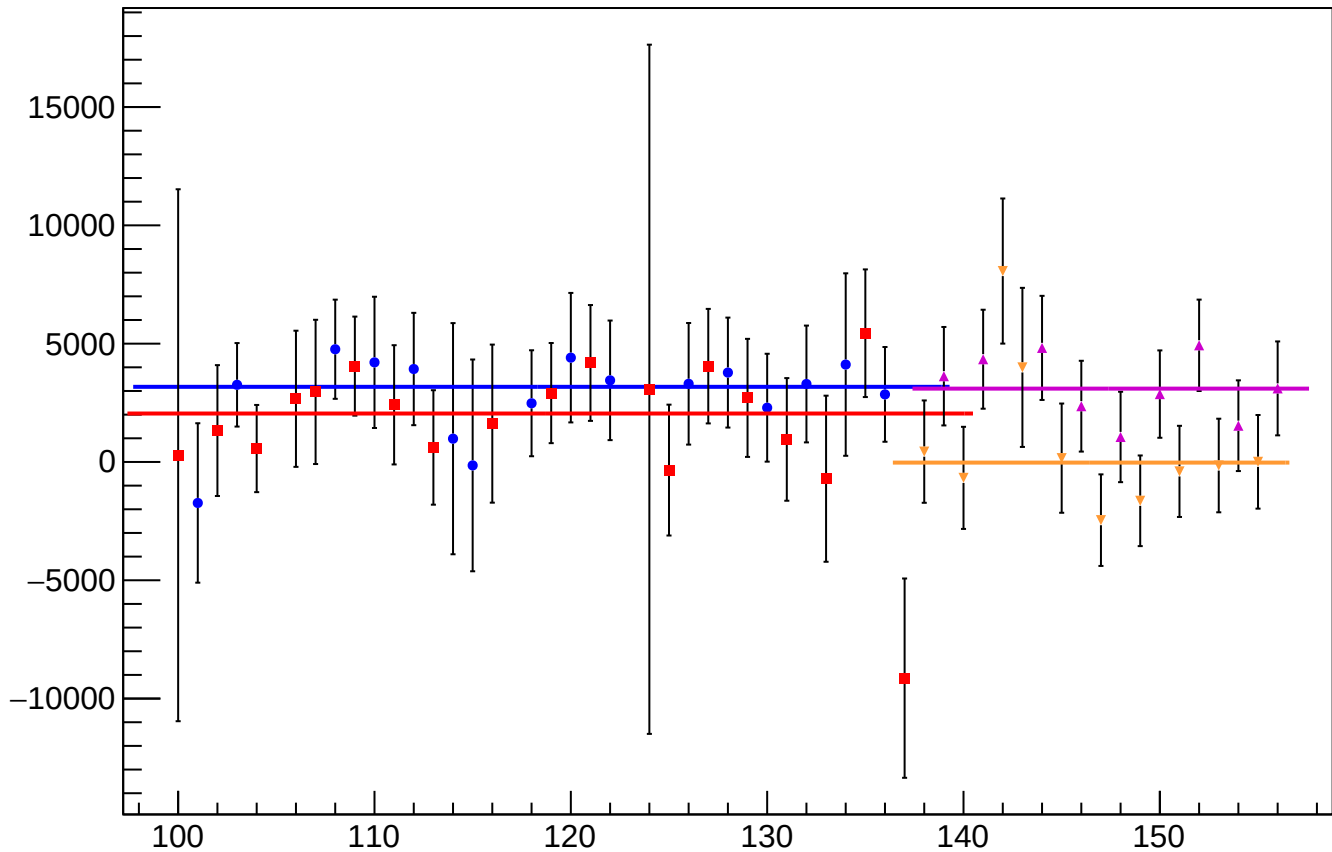
Right: 0.000+/-0.000 χ^2/NDF : 6585389.8/34

In: 0.000+/-0.000 χ^2/NDF : 4267979.2/24

Out: 0.000+/-0.000 χ^2/NDF : 5642399.3/28

All: 0.000+/-0.000 χ^2/NDF : 10008430.9/53

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.599+/-627.992 χ^2/NDF : 4.3/15

Left Out: -26.879+/-685.001 χ^2/NDF : 10.9/9

Right Out: 2047.403+/-621.498 χ^2/NDF : 14.0/18

Left In: 3099.420+/-659.491 χ^2/NDF : 3.9/8

Left: 1595.566+/-475.093 χ^2/NDF : 25.6/18

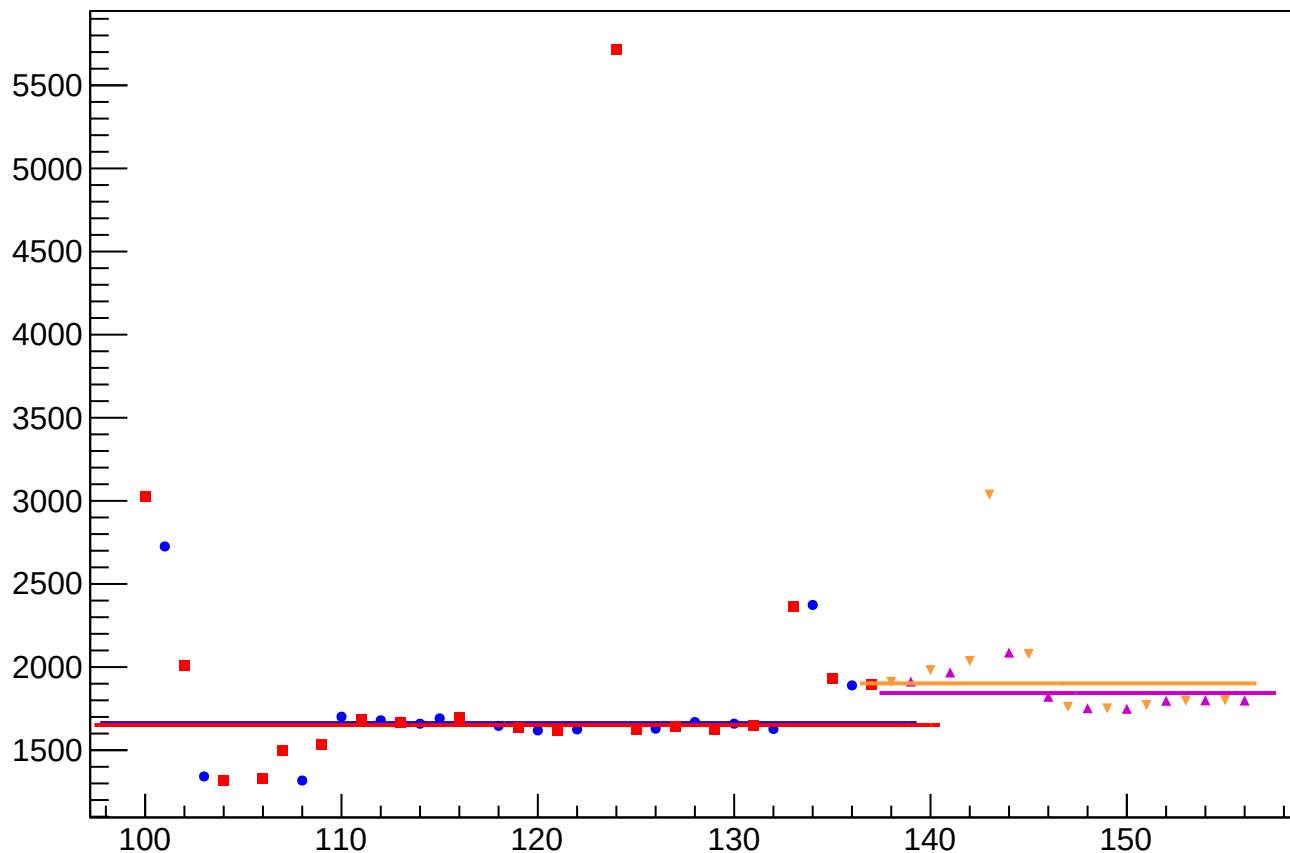
Right: 2605.638+/-441.744 χ^2/NDF : 20.0/34

In: 3139.372+/-454.785 χ^2/NDF : 8.2/24

Out: 1110.845+/-460.282 χ^2/NDF : 29.9/28

All: 2137.294+/-323.508 χ^2/NDF : 48.0/53

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415630.7/15

Left Out: 1901.926+/-0.484 χ^2/NDF : 289642.9/9

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.1/18

Left In: 1843.826+/-0.466 χ^2/NDF : 47044.4/8

Left: 1871.774+/-0.336 χ^2/NDF : 344154.2/18

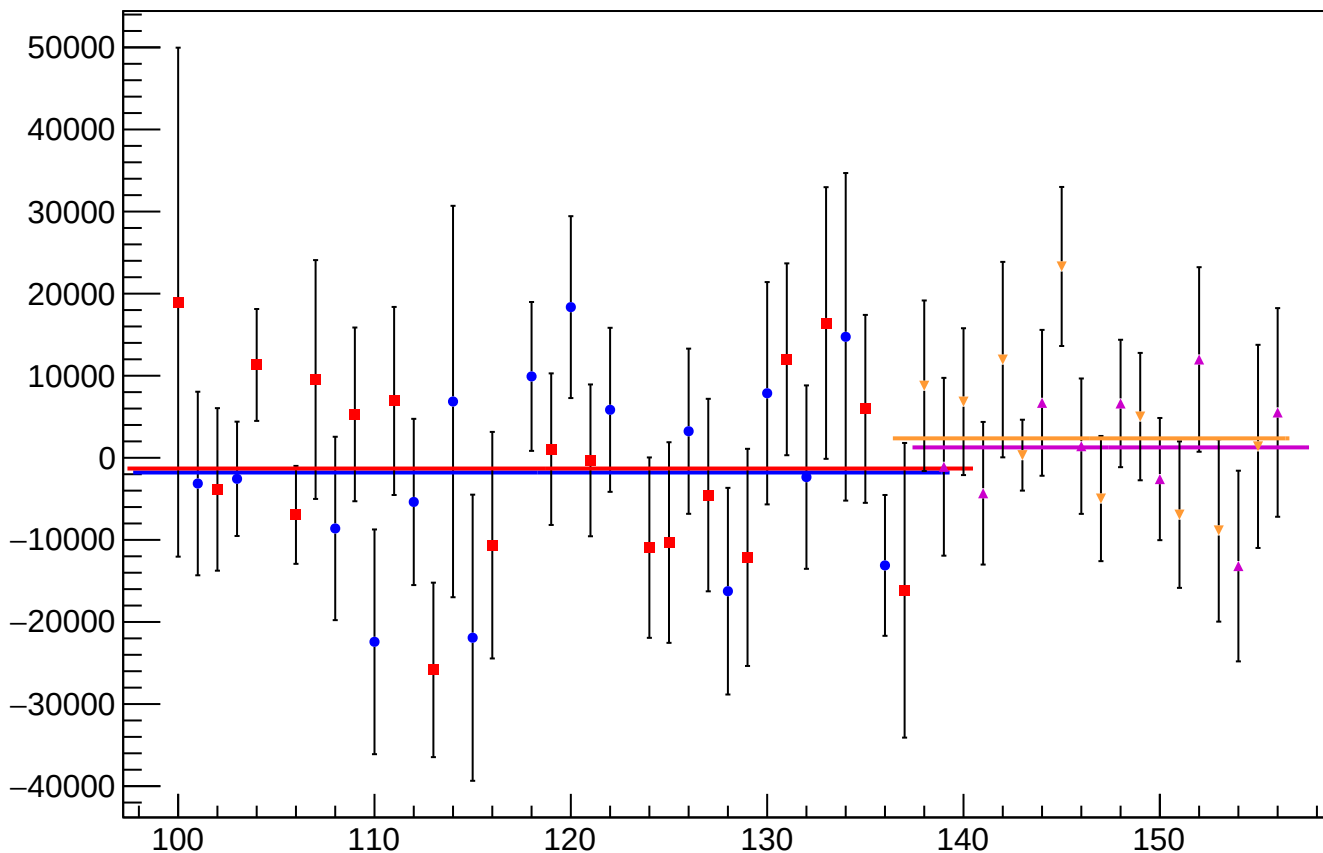
Right: 1657.052+/-0.312 χ^2/NDF : 847939.4/34

In: 1748.940+/-0.322 χ^2/NDF : 541617.7/24

Out: 1764.472+/-0.325 χ^2/NDF : 868430.9/28

All: 1756.612+/-0.229 χ^2/NDF : 1411201.0/53

asym_at2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1791.030 $\pm$ 2743.617 χ^2 /NDF: 14.3/15

Left Out: 2370.171 $\pm$ 2547.505 χ^2 /NDF: 9.3/9

Right Out: -1306.311 $\pm$ 2430.063 χ^2 /NDF: 17.7/18

Left In: 1268.220 $\pm$ 3081.572 χ^2 /NDF: 4.1/8

Left: 1922.812 $\pm$ 1963.447 χ^2 /NDF: 13.6/18

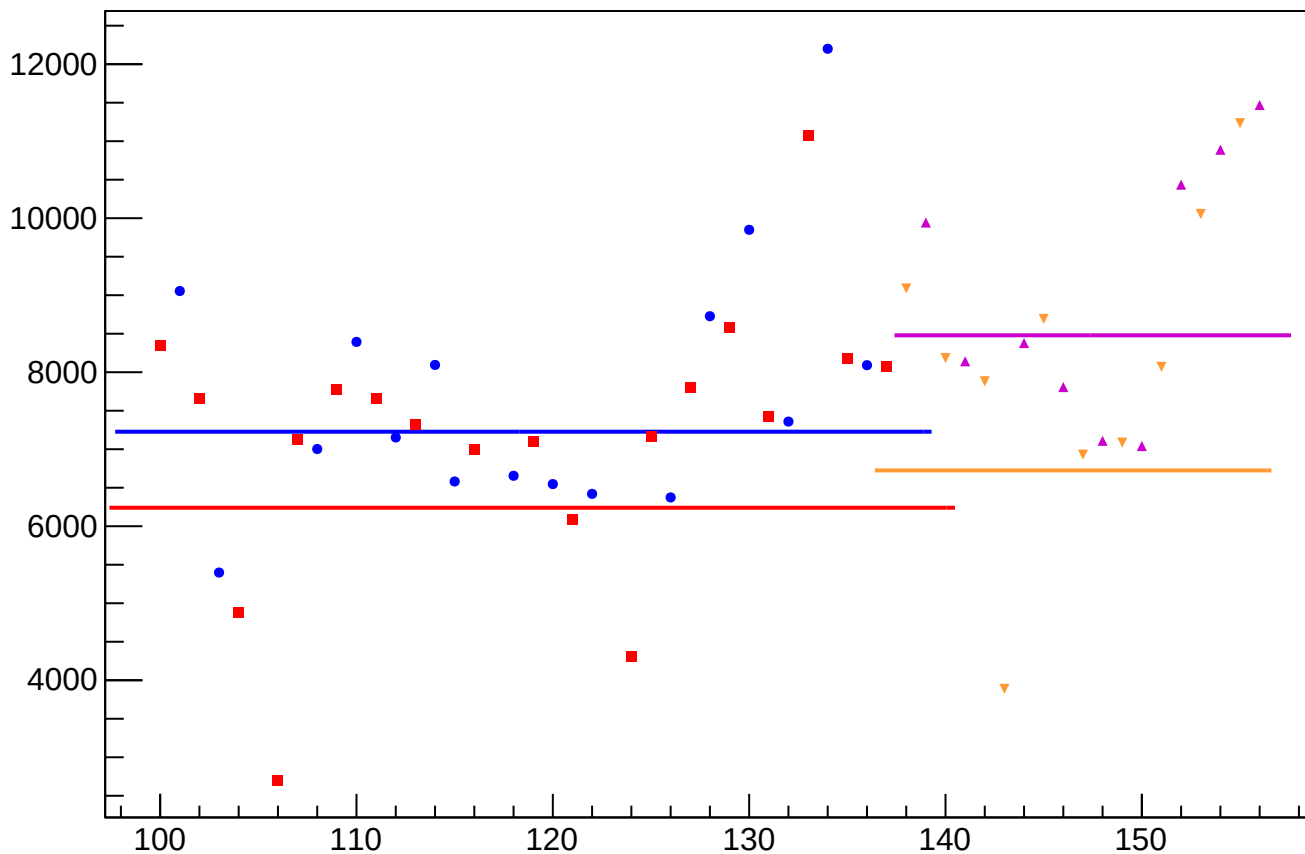
Right: -1519.402 $\pm$ 1819.116 χ^2 /NDF: 32.1/34

In: -438.295 $\pm$ 2049.138 χ^2 /NDF: 19.0/24

Out: 445.235 $\pm$ 1758.367 χ^2 /NDF: 28.1/28

All: 70.552 $\pm$ 1334.420 χ^2 /NDF: 47.3/53

asym_at2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 7227.590+/-1.940 χ^2/NDF : 503260.9/15

Left Out: 6724.843+/-1.801 χ^2/NDF : 1617281.0/9

Right Out: 6240.557+/-1.718 χ^2/NDF : 1399077.4/18

Left In: 8479.619+/-2.179 χ^2/NDF : 447521.4/8

Left: 7437.229+/-1.388 χ^2/NDF : 2450047.2/18

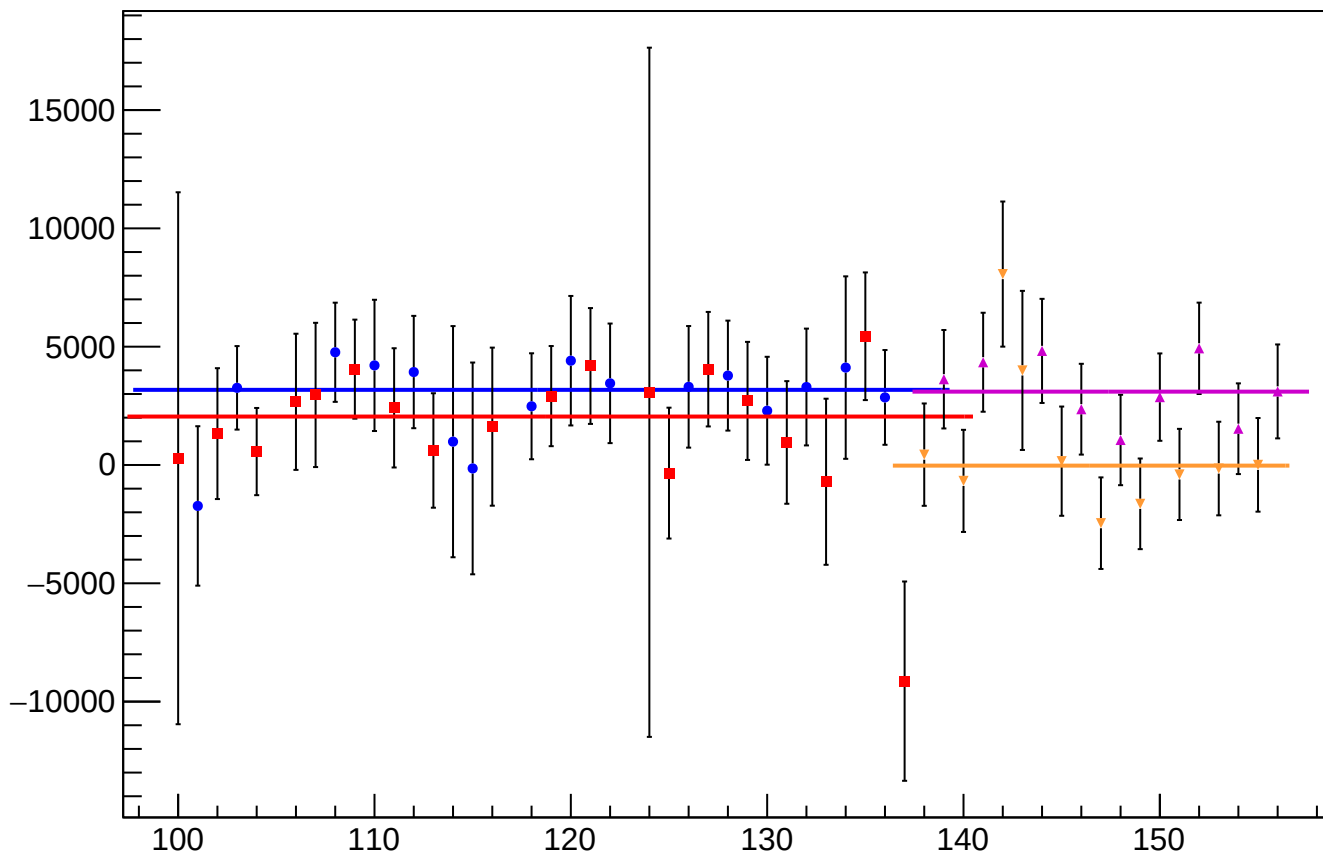
Right: 6674.473+/-1.286 χ^2/NDF : 2047393.1/34

In: 7781.210+/-1.449 χ^2/NDF : 1134948.1/24

Out: 6471.280+/-1.243 χ^2/NDF : 3054201.7/28

All: 7026.789+/-0.944 χ^2/NDF : 4659855.9/53

cor_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.689 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: -26.892 $\pm$ 685.001 χ^2 /NDF:10.9/9

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3099.569 $\pm$ 659.491 χ^2 /NDF:3.9/8

Left: 1595.637 $\pm$ 475.093 χ^2 /NDF: 25.6/18

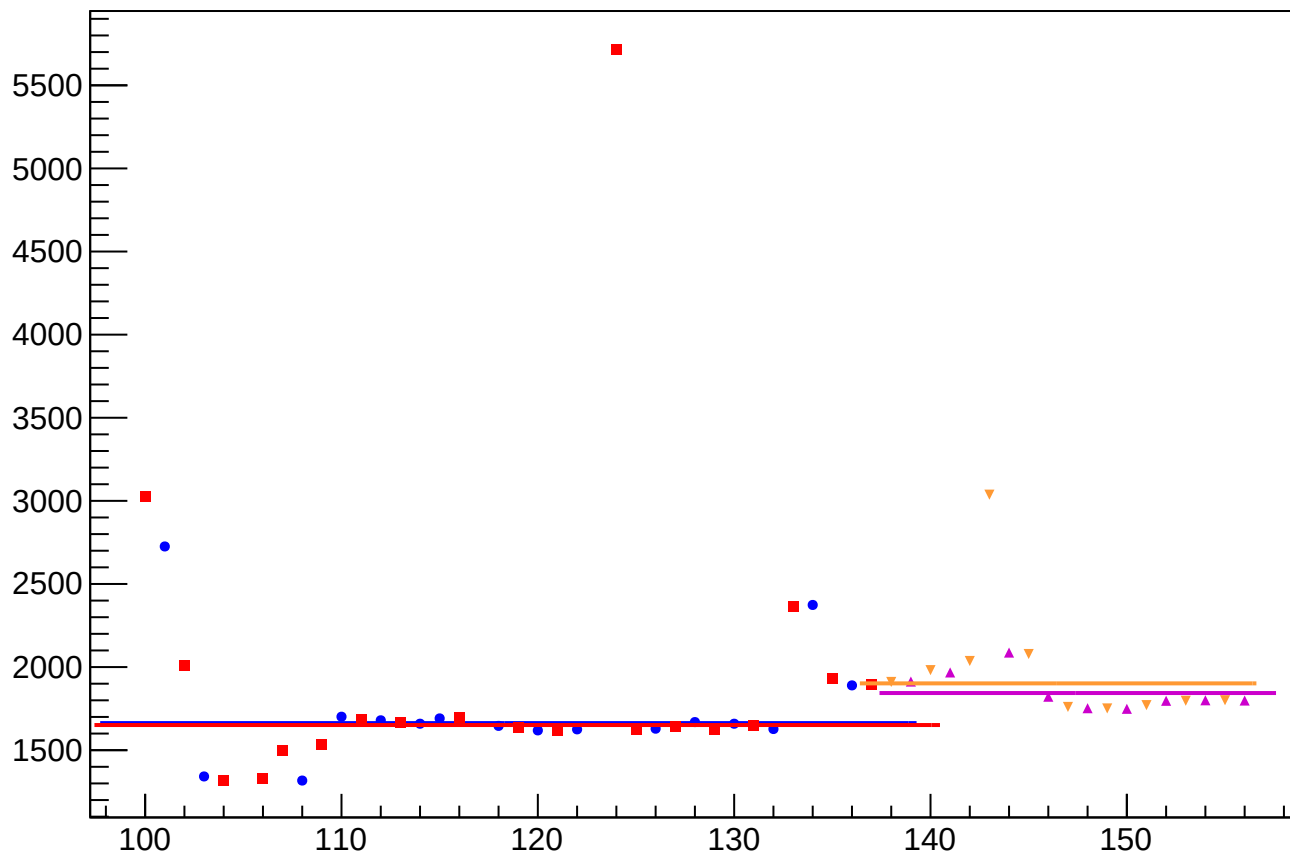
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3139.490 $\pm$ 454.785 χ^2 /NDF:8.2/24

Out: 1110.733 $\pm$ 460.282 χ^2 /NDF:29.9/28

All: 2137.298 $\pm$ 323.508 χ^2 /NDF: 48.0/53

cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415631.0/15

Left Out: 1901.926+/-0.484 χ^2/NDF : 289642.9/9

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.2/18

Left In: 1843.826+/-0.466 χ^2/NDF : 47044.4/8

Left: 1871.774+/-0.336 χ^2/NDF : 344154.2/18

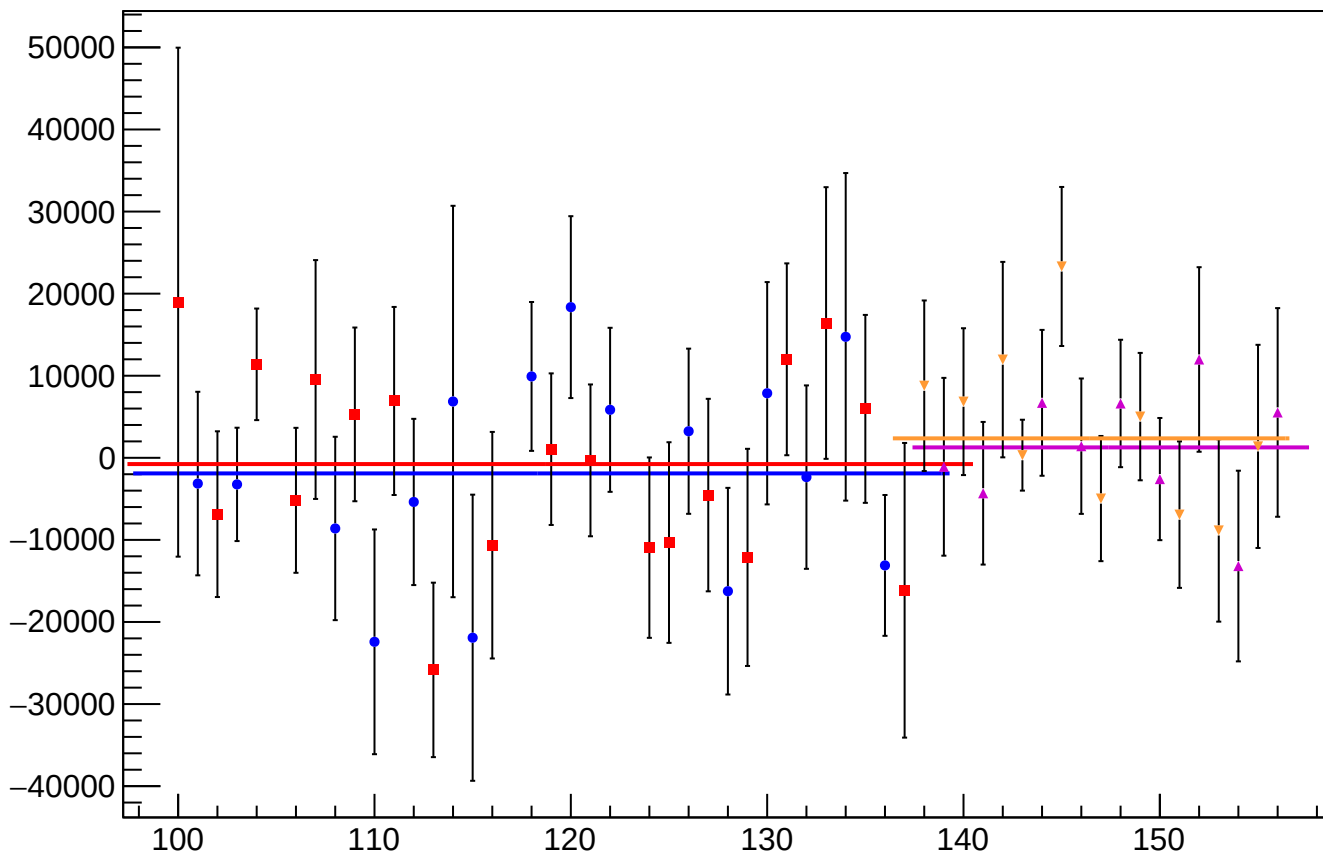
Right: 1657.051+/-0.312 χ^2/NDF : 847939.7/34

In: 1748.940+/-0.322 χ^2/NDF : 541618.2/24

Out: 1764.472+/-0.325 χ^2/NDF : 868431.2/28

All: 1756.612+/-0.229 χ^2/NDF : 1411201.7/53

asym_at2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1900.125 $\pm$ 2739.954 χ^2 /NDF: 14.4/15

Left Out: 2370.078 $\pm$ 2547.494 χ^2 /NDF: 9.3/9

Right Out: -762.513 $\pm$ 2549.943 χ^2 /NDF: 17.3/18

Left In: 1268.390 $\pm$ 3081.570 χ^2 /NDF: 4.1/8

Left: 1922.828 $\pm$ 1963.442 χ^2 /NDF: 13.6/18

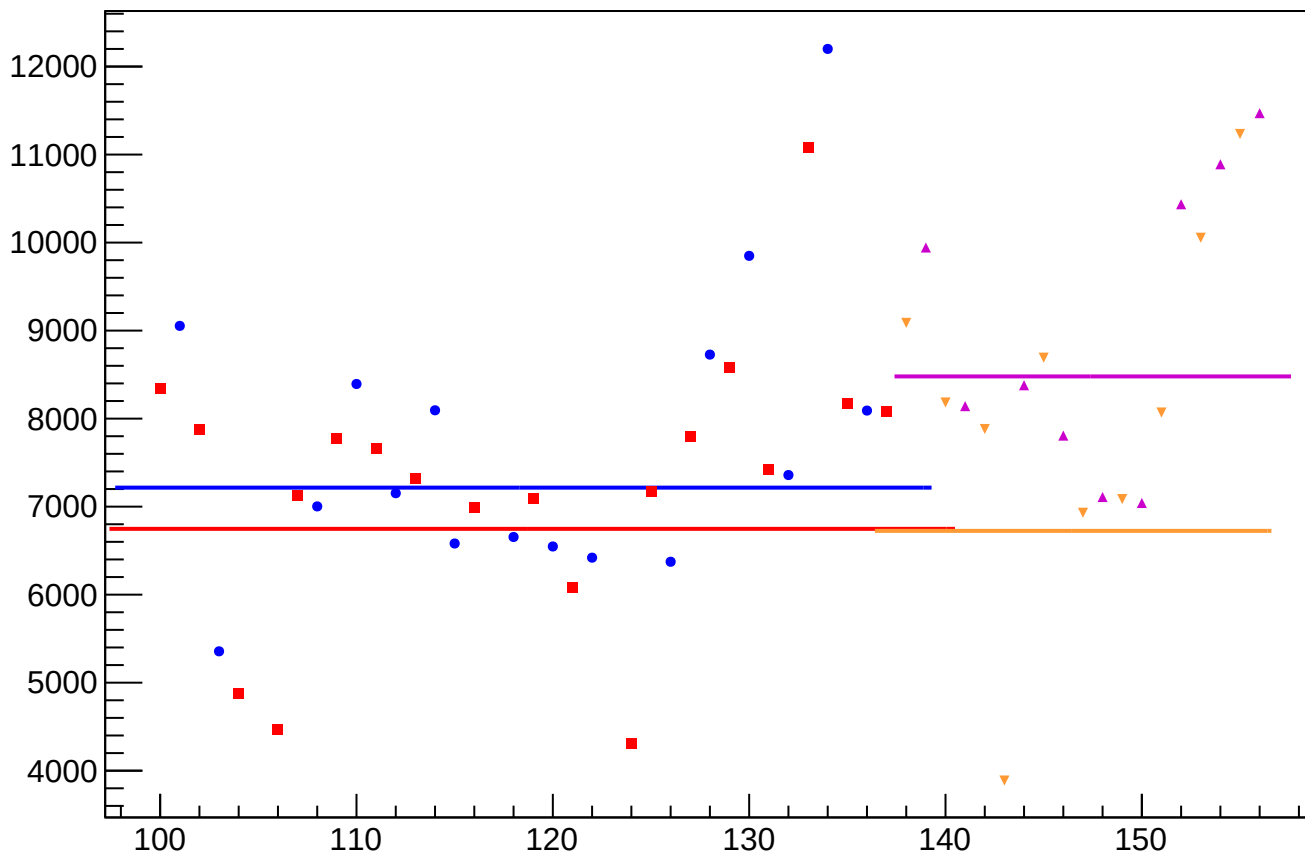
Right: -1290.509 $\pm$ 1866.644 χ^2 /NDF: 31.7/34

In: -501.163 $\pm$ 2047.610 χ^2 /NDF: 19.1/24

Out: 805.288 $\pm$ 1802.216 χ^2 /NDF: 27.4/28

All: 235.001 $\pm$ 1352.843 χ^2 /NDF: 46.7/53

asym_at2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029 $\pm$ 1.937 χ^2 /NDF: 512126.4/15

Left Out: 6724.805 $\pm$ 1.801 χ^2 /NDF:1617324.0/9

Right Out: 6747.736 $\pm$ 1.803 χ^2 /NDF: 708793.3/18

Left In: 8479.613 $\pm$ 2.179 χ^2 /NDF:447523.5/8

Left: 7437.201 $\pm$ 1.388 χ^2 /NDF: 2450108.1/18

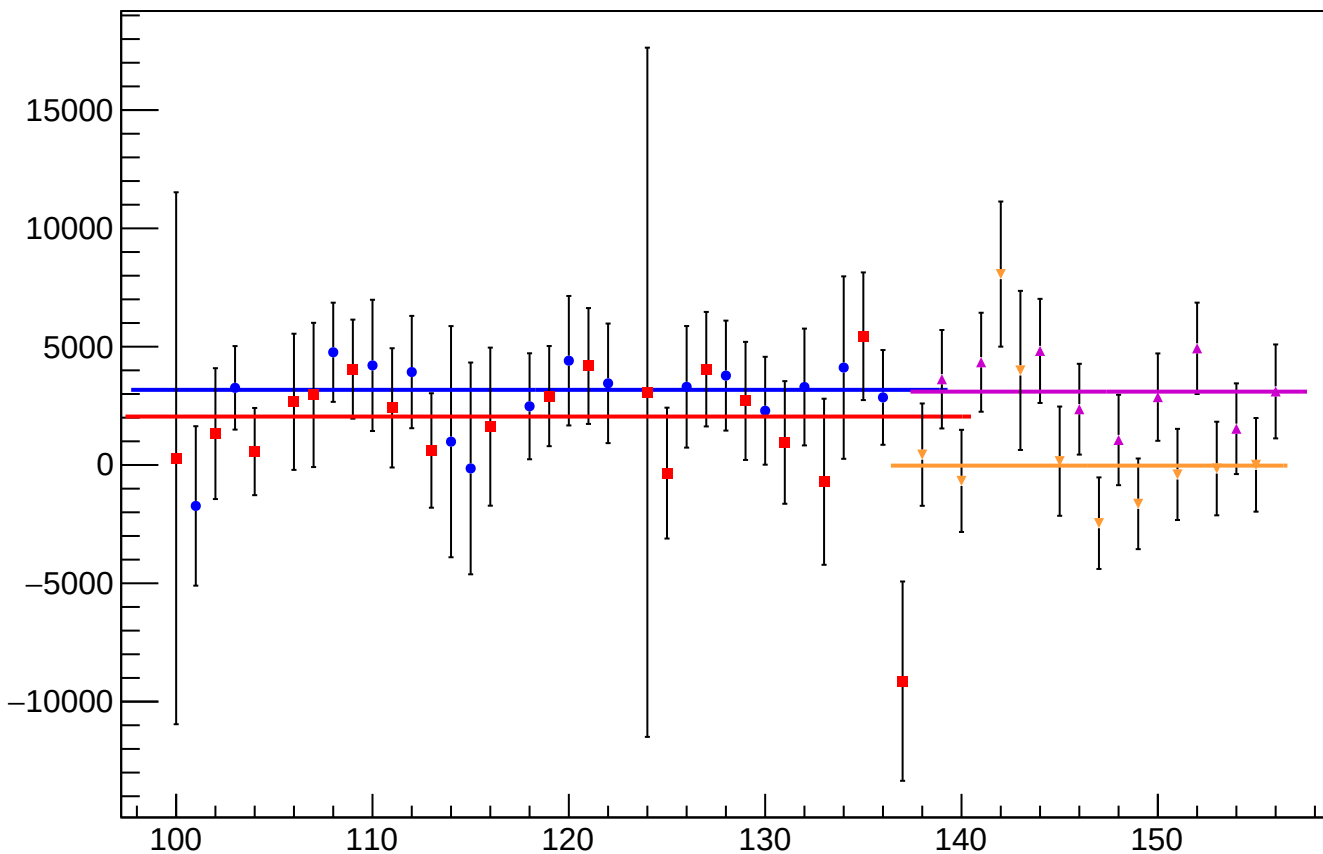
Right: 6965.084 $\pm$ 1.320 χ^2 /NDF: 1252226.6/34

In: 7773.927 $\pm$ 1.448 χ^2 /NDF:1147452.4/24

Out: 6736.260 $\pm$ 1.274 χ^2 /NDF:2326198.3/28

All: 7189.218 $\pm$ 0.957 χ^2 /NDF: 3763073.5/53

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: -26.892 $\pm$ 685.001 χ^2 /NDF:10.9/9

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3099.569 $\pm$ 659.491 χ^2 /NDF:3.9/8

Left: 1595.637 $\pm$ 475.093 χ^2 /NDF: 25.6/18

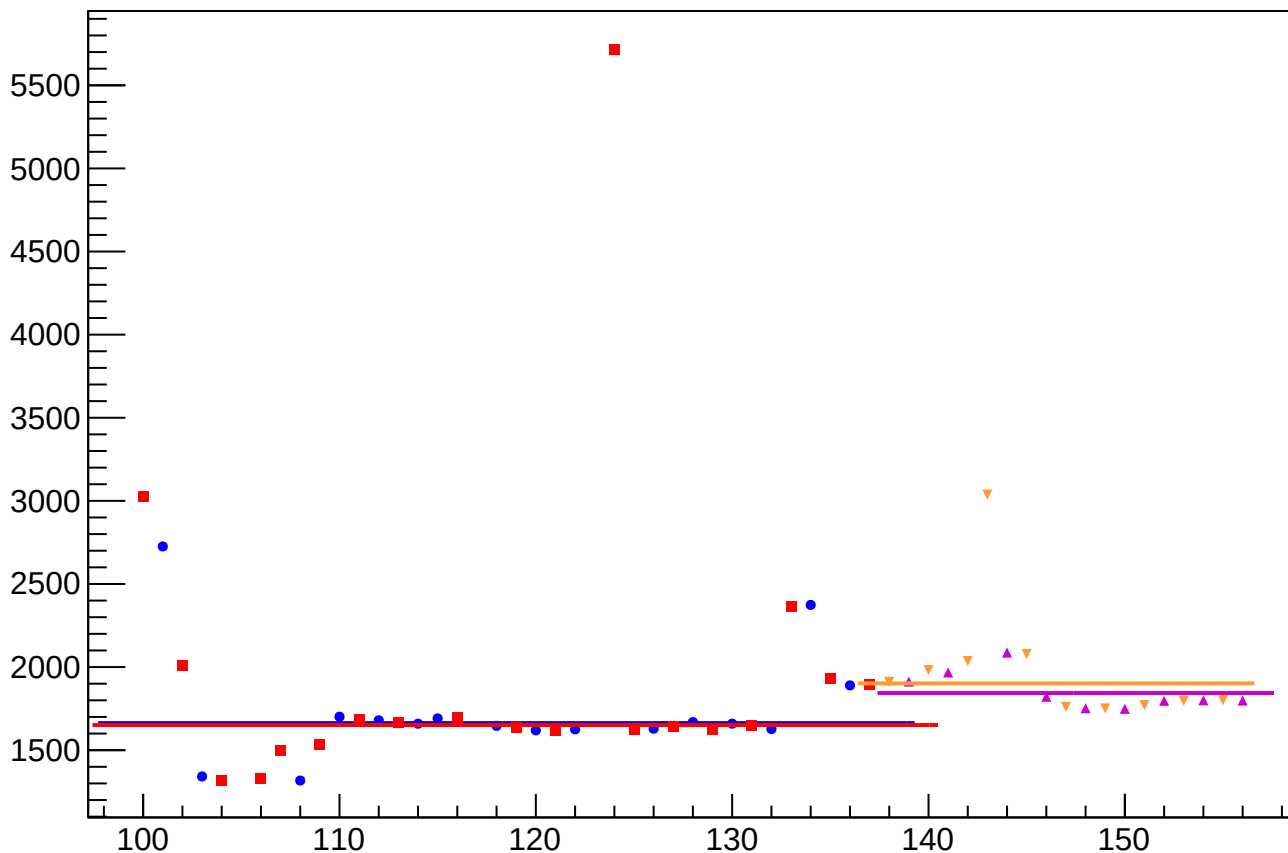
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3139.490 $\pm$ 454.785 χ^2 /NDF:8.2/24

Out: 1110.733 $\pm$ 460.282 χ^2 /NDF:29.9/28

All: 2137.298 $\pm$ 323.508 χ^2 /NDF: 48.0/53

eigen_cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901 $\pm$ 0.444 χ^2 /NDF: 415631.0/15

Left Out: 1901.926 $\pm$ 0.484 χ^2 /NDF: 289642.9/9

Right Out: 1651.322 $\pm$ 0.439 χ^2 /NDF: 431965.2/18

Left In: 1843.826 $\pm$ 0.466 χ^2 /NDF: 47044.4/8

Left: 1871.774 $\pm$ 0.336 χ^2 /NDF: 344154.2/18

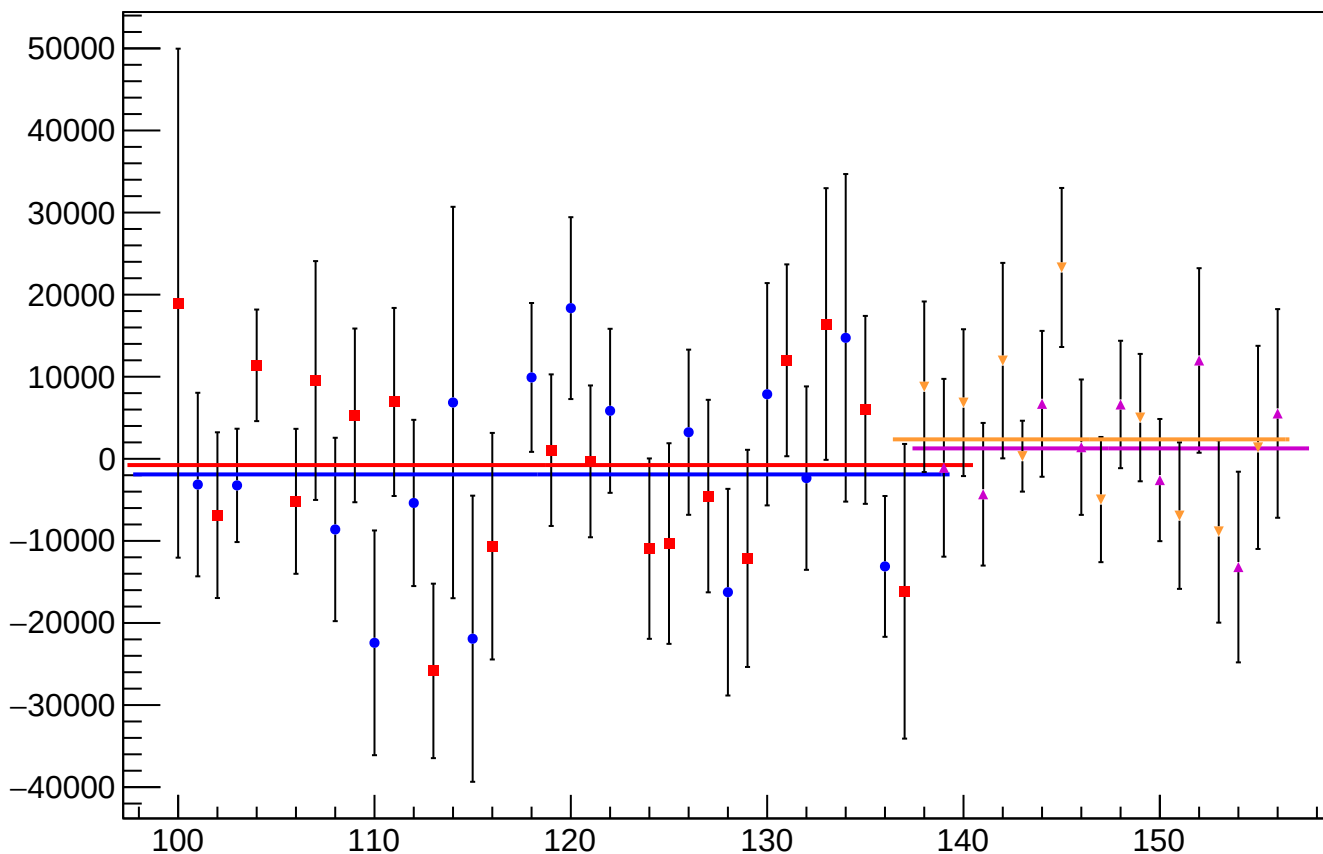
Right: 1657.051 $\pm$ 0.312 χ^2 /NDF: 847939.7/34

In: 1748.940 $\pm$ 0.322 χ^2 /NDF: 541618.2/24

Out: 1764.472 $\pm$ 0.325 χ^2 /NDF: 868431.2/28

All: 1756.612 $\pm$ 0.229 χ^2 /NDF: 1411201.7/53

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: 2370.078+/-2547.494 χ^2/NDF : 9.3/9

Right Out: -762.513+/-2549.943 χ^2/NDF : 17.3/18

Left In: 1268.390+/-3081.570 χ^2/NDF : 4.1/8

Left: 1922.828+/-1963.442 χ^2/NDF : 13.6/18

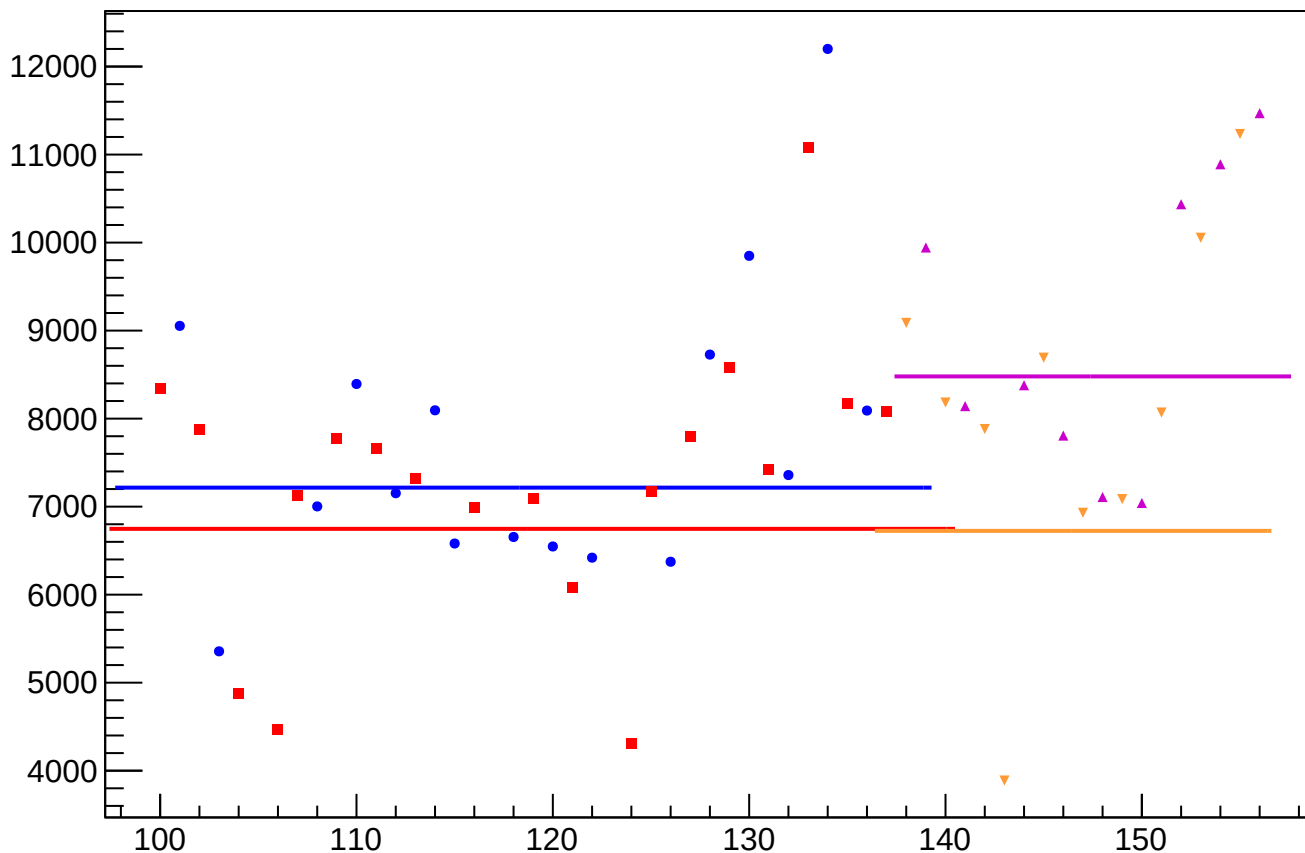
Right: -1290.509+/-1866.644 χ^2/NDF : 31.7/34

In: -501.163+/-2047.610 χ^2/NDF : 19.1/24

Out: 805.288+/-1802.216 χ^2/NDF : 27.4/28

All: 235.001+/-1352.843 χ^2/NDF : 46.7/53

asym_at2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029 $\pm$ 1.937 χ^2 /NDF: 512126.4/15

Left Out: 6724.805 $\pm$ 1.801 χ^2 /NDF:1617324.0/9

Right Out: 6747.736 $\pm$ 1.803 χ^2 /NDF: 708793.3/18

Left In: 8479.613 $\pm$ 2.179 χ^2 /NDF:447523.5/8

Left: 7437.201 $\pm$ 1.388 χ^2 /NDF: 2450108.1/18

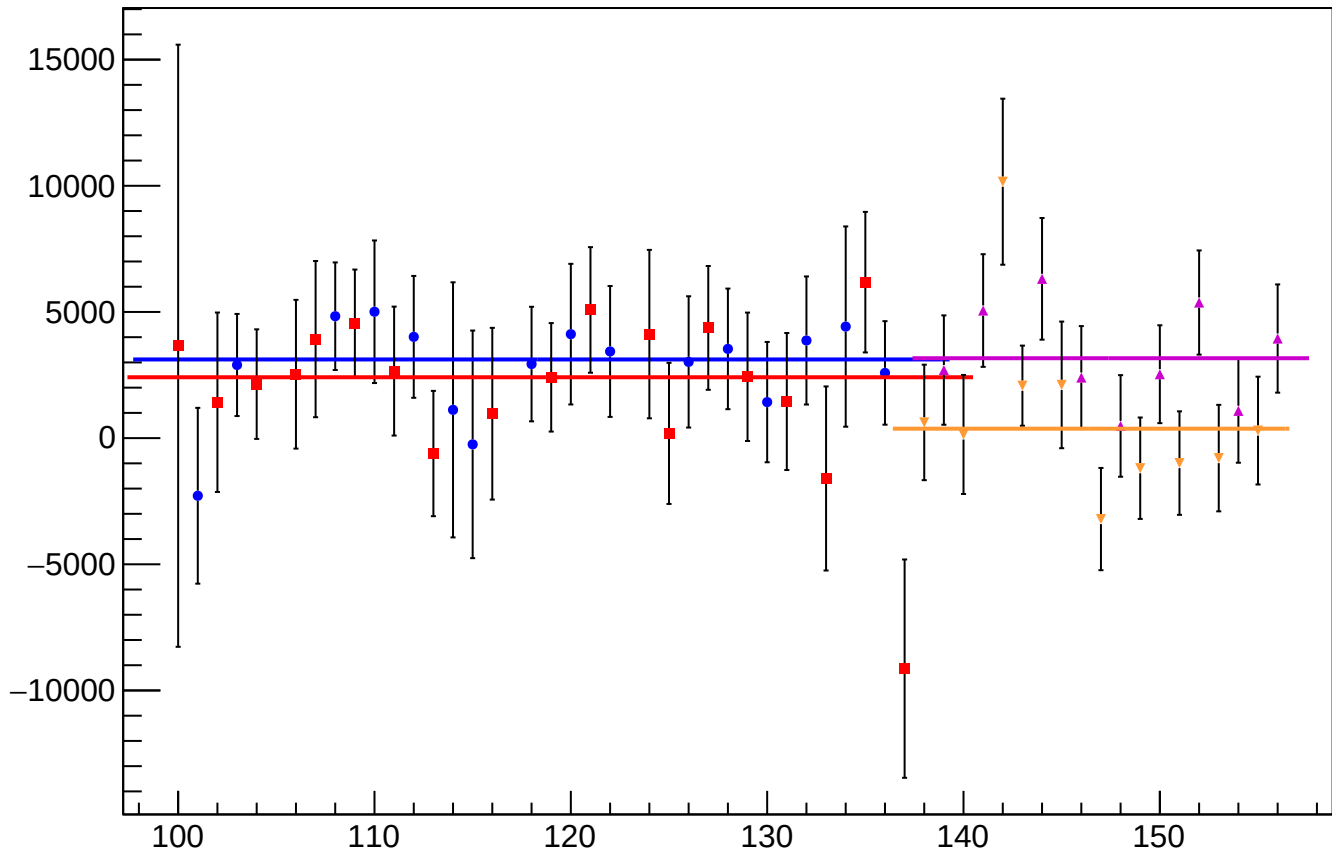
Right: 6965.084 $\pm$ 1.320 χ^2 /NDF: 1252226.6/34

In: 7773.927 $\pm$ 1.448 χ^2 /NDF:1147452.4/24

Out: 6736.260 $\pm$ 1.274 χ^2 /NDF:2326198.3/28

All: 7189.218 $\pm$ 0.957 χ^2 /NDF: 3763073.5/53

dit_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3117.878+/-651.119 χ^2/NDF : 5.3/15

Left Out: 373.664+/-675.562 χ^2/NDF : 15.0/9

Right Out: 2412.473+/-639.018 χ^2/NDF : 16.0/18

Left In: 3166.485+/-702.300 χ^2/NDF : 6.8/8

Left: 1715.899+/-486.873 χ^2/NDF : 30.0/18

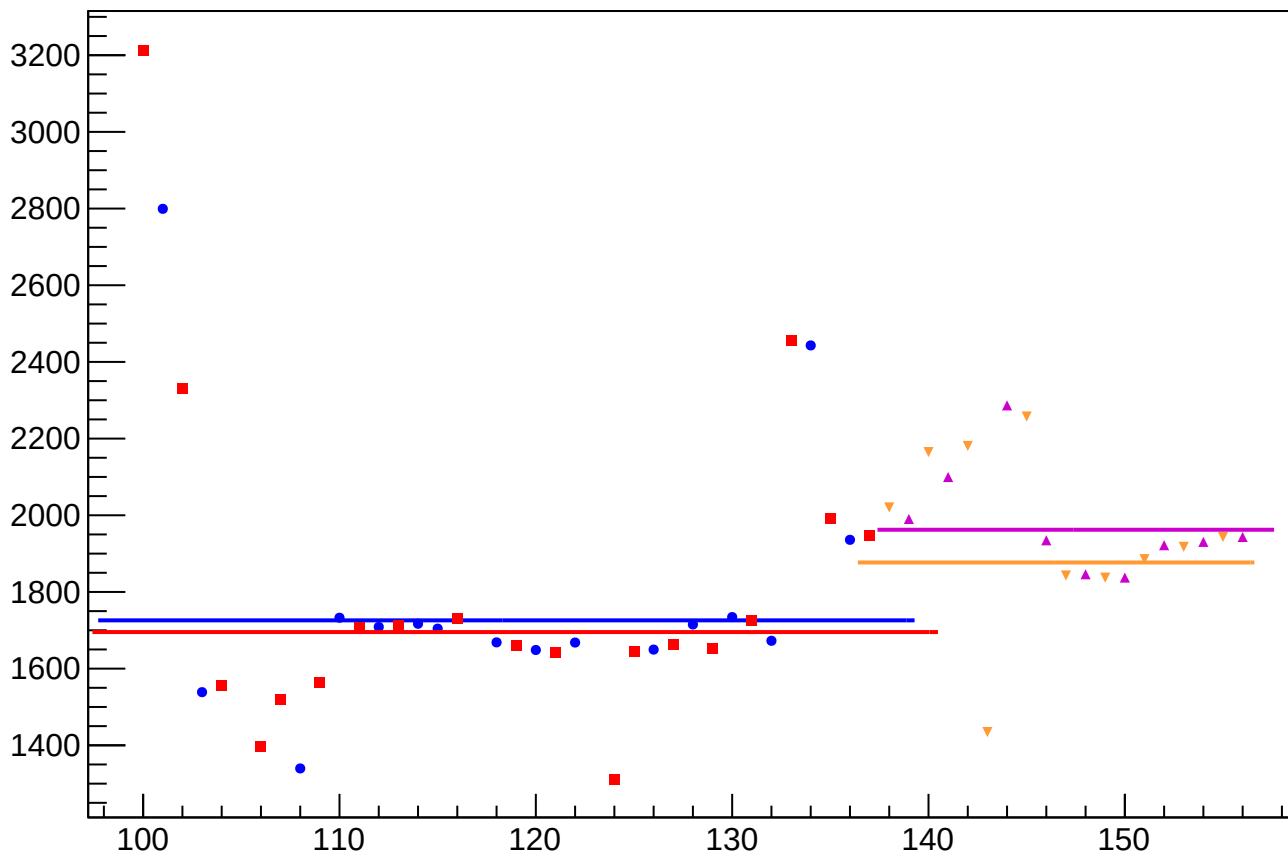
Right: 2758.560+/-456.072 χ^2/NDF : 21.9/34

In: 3140.346+/-477.480 χ^2/NDF : 12.1/24

Out: 1449.702+/-464.236 χ^2/NDF : 35.8/28

All: 2271.251+/-332.848 χ^2/NDF : 54.3/53

dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.911+/-0.460 χ^2/NDF : 365638.9/15

Left Out: 1876.890+/-0.478 χ^2/NDF : 259983.5/9

Right Out: 1695.387+/-0.452 χ^2/NDF : 285622.0/18

Left In: 1962.229+/-0.497 χ^2/NDF : 60829.4/8

Left: 1917.904+/-0.344 χ^2/NDF : 336151.2/18

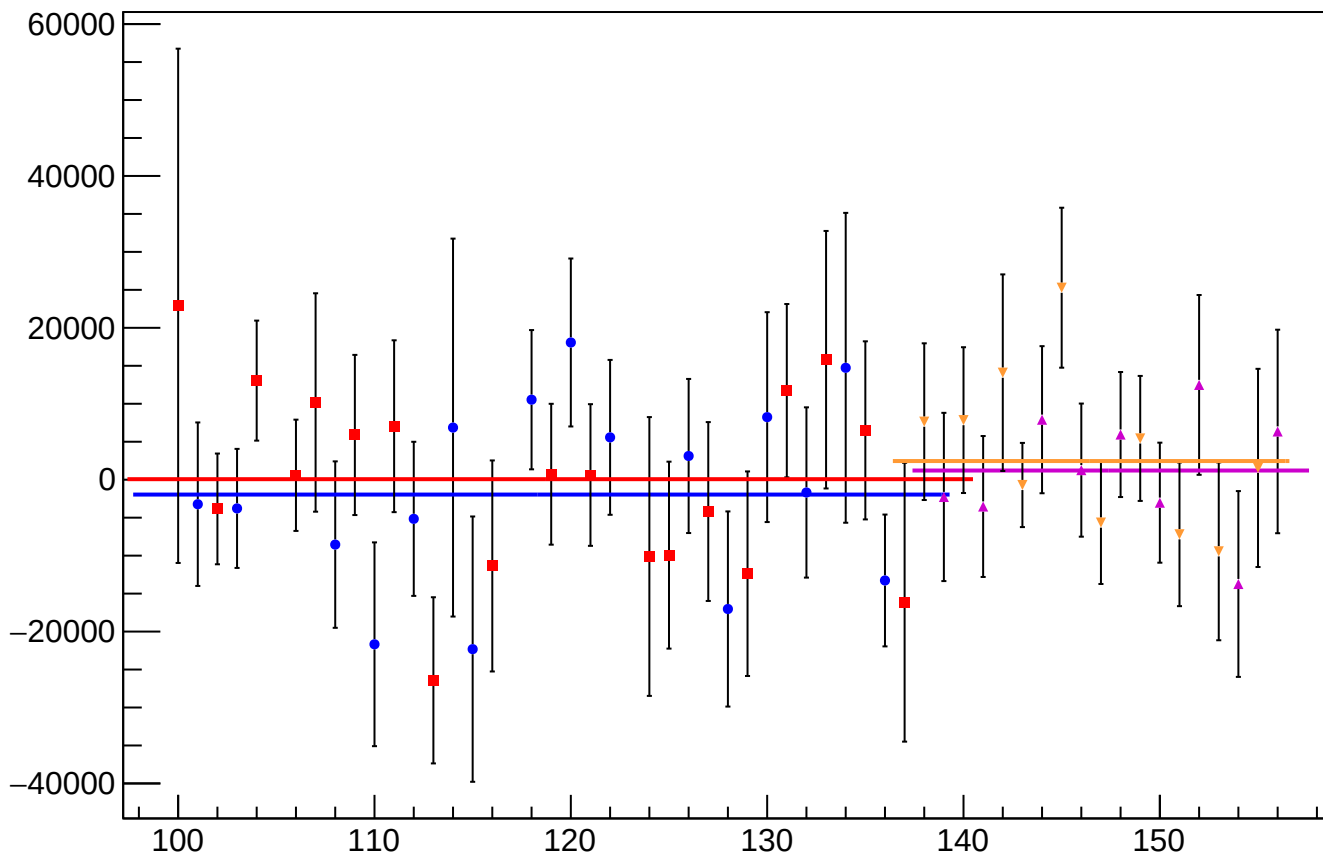
Right: 1710.357+/-0.322 χ^2/NDF : 653500.6/34

In: 1835.146+/-0.338 χ^2/NDF : 548246.7/24

Out: 1781.063+/-0.328 χ^2/NDF : 621825.9/28

All: 1807.339+/-0.235 χ^2/NDF : 1183265.2/53

asym_at2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1958.559 $\pm$ 2798.309 χ^2 /NDF: 14.4/15

Left Out: 2455.830 $\pm$ 2861.194 χ^2 /NDF:9.6/9

Right Out: 68.156 $\pm$ 2529.527 χ^2 /NDF: 16.1/18

Left In: 1208.490 $\pm$ 3268.932 χ^2 /NDF:4.0/8

Left: 1914.760 $\pm$ 2152.981 χ^2 /NDF: 13.7/18

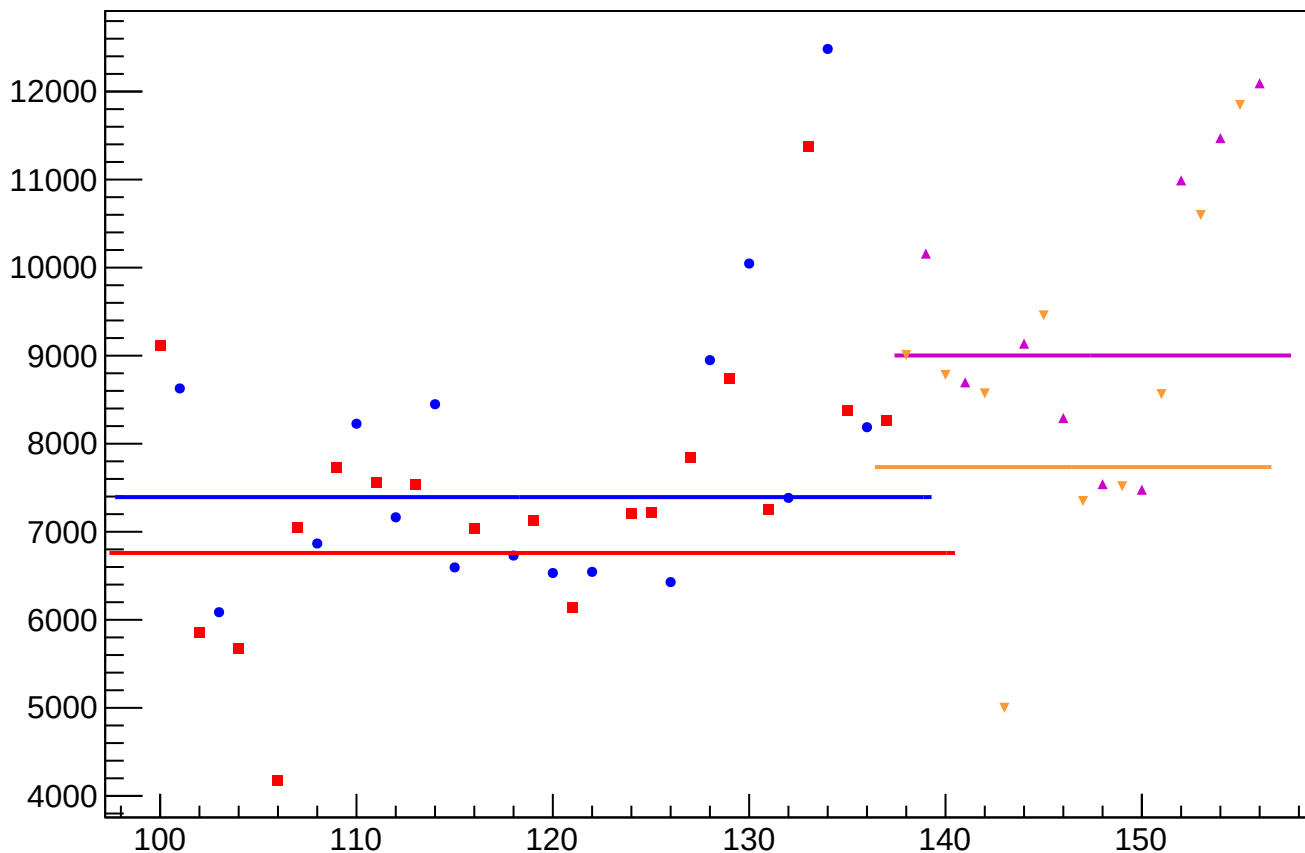
Right: -843.216 $\pm$ 1876.494 χ^2 /NDF: 30.8/34

In: -619.227 $\pm$ 2125.801 χ^2 /NDF:18.9/24

Out: 1115.644 $\pm$ 1895.109 χ^2 /NDF:26.1/28

All: 347.417 $\pm$ 1414.601 χ^2 /NDF: 45.4/53

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: 7734.880 $\pm$ 2.023 χ^2 /NDF: 942019.7/9

Right Out: 6759.428 $\pm$ 1.789 χ^2 /NDF: 644290.9/18

Left In: 9002.220 $\pm$ 2.311 χ^2 /NDF: 419252.5/8

Left: 8284.626 $\pm$ 1.522 χ^2 /NDF: 1531484.4/18

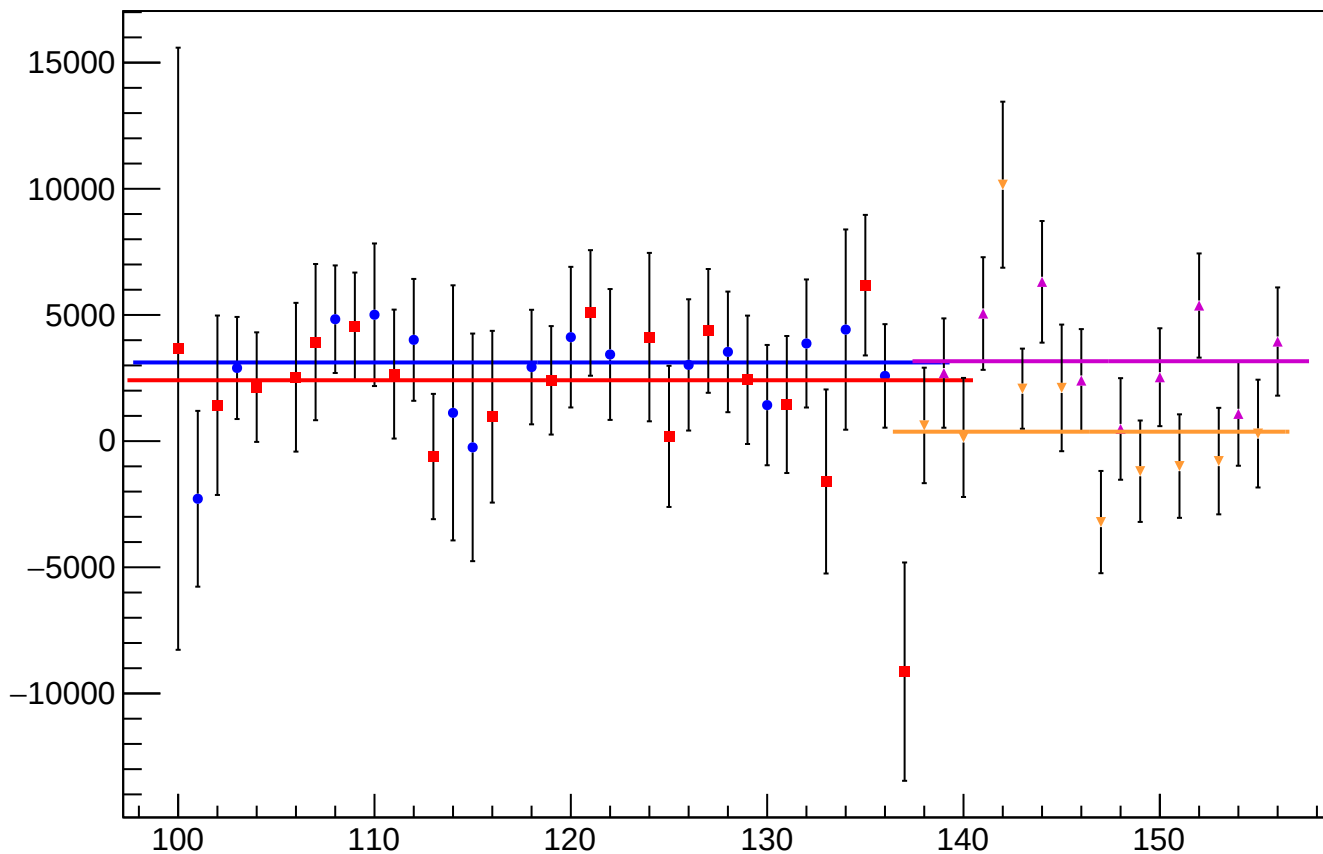
Right: 7044.612 $\pm$ 1.327 χ^2 /NDF: 1102650.4/34

In: 8073.892 $\pm$ 1.503 χ^2 /NDF: 1100570.0/24

Out: 7187.365 $\pm$ 1.340 χ^2 /NDF: 1716788.8/28

All: 7579.933 $\pm$ 1.000 χ^2 /NDF: 3011165.1/53

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: 373.660 $\pm$ 675.563 χ^2/NDF : 15.0/9

Right Out: 2412.481 $\pm$ 639.018 χ^2/NDF : 16.0/18

Left In: 3166.481 $\pm$ 702.301 χ^2/NDF : 6.8/8

Left: 1715.894 $\pm$ 486.874 χ^2/NDF : 30.0/18

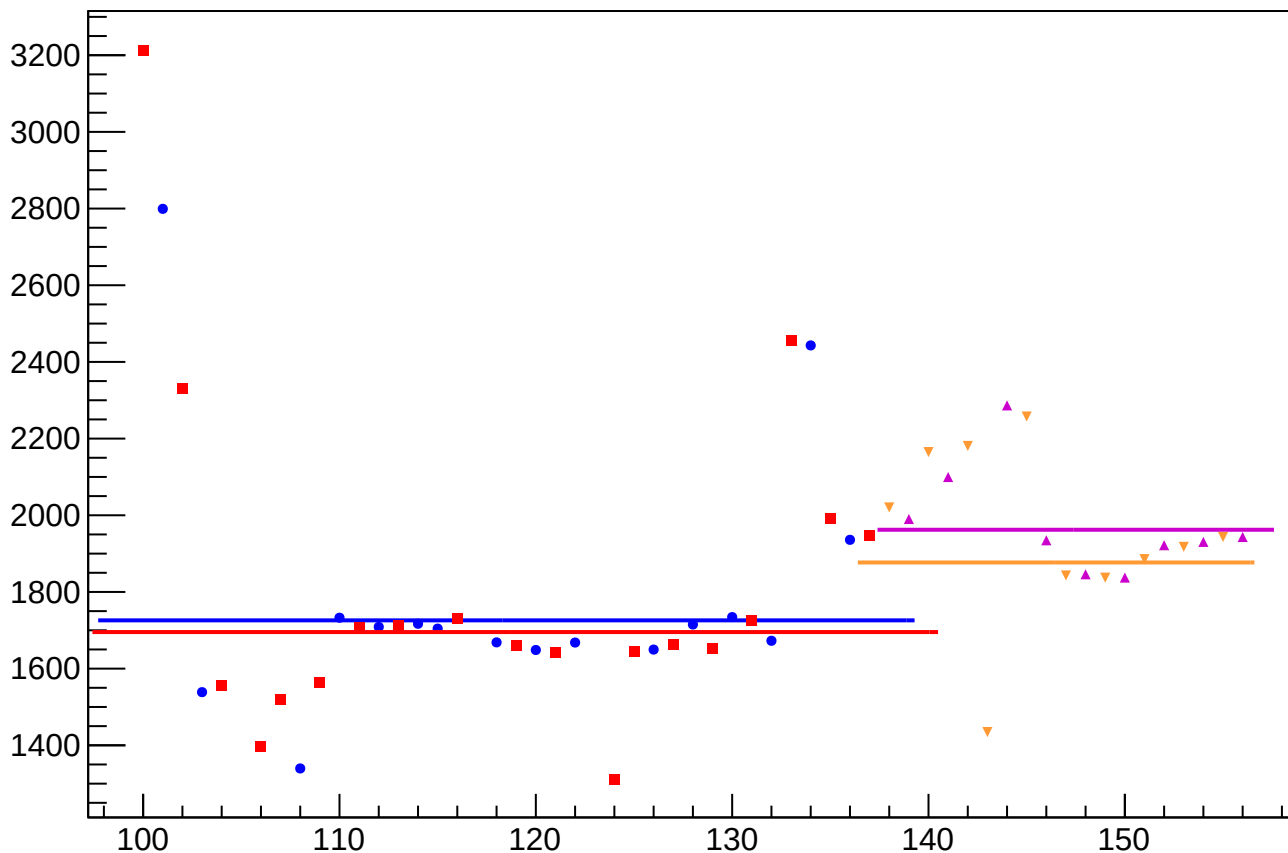
Right: 2758.566 $\pm$ 456.072 χ^2/NDF : 21.9/34

In: 3140.346 $\pm$ 477.481 χ^2/NDF : 12.1/24

Out: 1449.706 $\pm$ 464.236 χ^2/NDF : 35.8/28

All: 2271.253 $\pm$ 332.848 χ^2/NDF : 54.3/53

eigen_dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.910 $\pm$ 0.460 χ^2 /NDF: 365639.0/15

Left Out: 1876.893 $\pm$ 0.478 χ^2 /NDF: 259984.0/9

Right Out: 1695.387 $\pm$ 0.452 χ^2 /NDF: 285622.3/18

Left In: 1962.232 $\pm$ 0.497 χ^2 /NDF: 60829.7/8

Left: 1917.907 $\pm$ 0.344 χ^2 /NDF: 336152.1/18

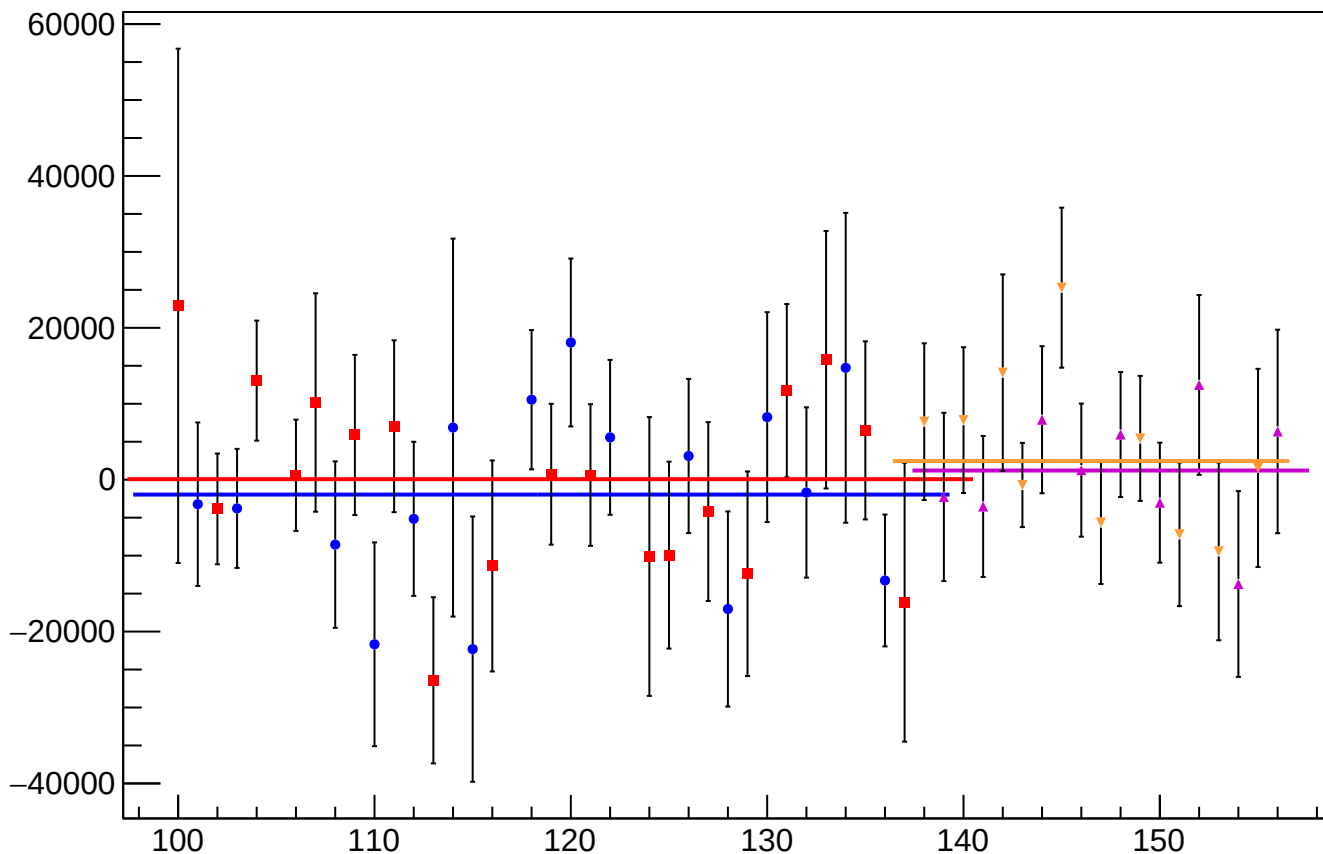
Right: 1710.357 $\pm$ 0.322 χ^2 /NDF: 653500.9/34

In: 1835.147 $\pm$ 0.338 χ^2 /NDF: 548250.3/24

Out: 1781.064 $\pm$ 0.328 χ^2 /NDF: 621828.9/28

All: 1807.340 $\pm$ 0.235 χ^2 /NDF: 1183271.8/53

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: 2455.824 $\pm$ 2861.198 χ^2 /NDF: 9.6/9

Right Out: 68.163 $\pm$ 2529.521 χ^2 /NDF: 16.1/18

Left In: 1208.486 $\pm$ 3268.936 χ^2 /NDF: 4.0/8

Left: 1914.755 $\pm$ 2152.984 χ^2 /NDF: 13.7/18

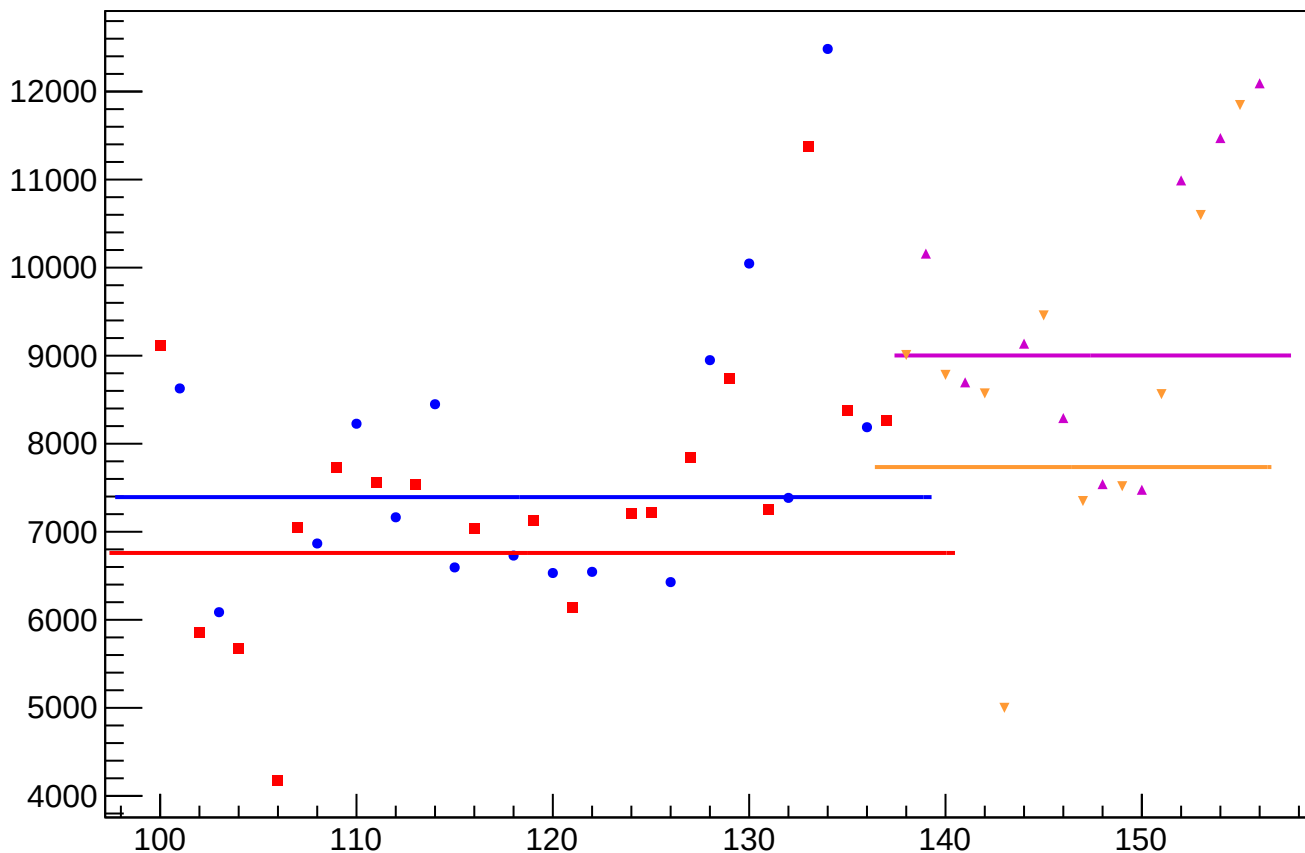
Right: -843.203 $\pm$ 1876.490 χ^2 /NDF: 30.8/34

In: -619.222 $\pm$ 2125.800 χ^2 /NDF: 18.9/24

Out: 1115.641 $\pm$ 1895.108 χ^2 /NDF: 26.1/28

All: 347.417 $\pm$ 1414.600 χ^2 /NDF: 45.4/53

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: 7734.892 $\pm$ 2.023 χ^2 /NDF: 942019.1/9

Right Out: 6759.413 $\pm$ 1.789 χ^2 /NDF: 644289.7/18

Left In: 9002.232 $\pm$ 2.311 χ^2 /NDF: 419253.0/8

Left: 8284.637 $\pm$ 1.522 χ^2 /NDF: 1531483.8/18

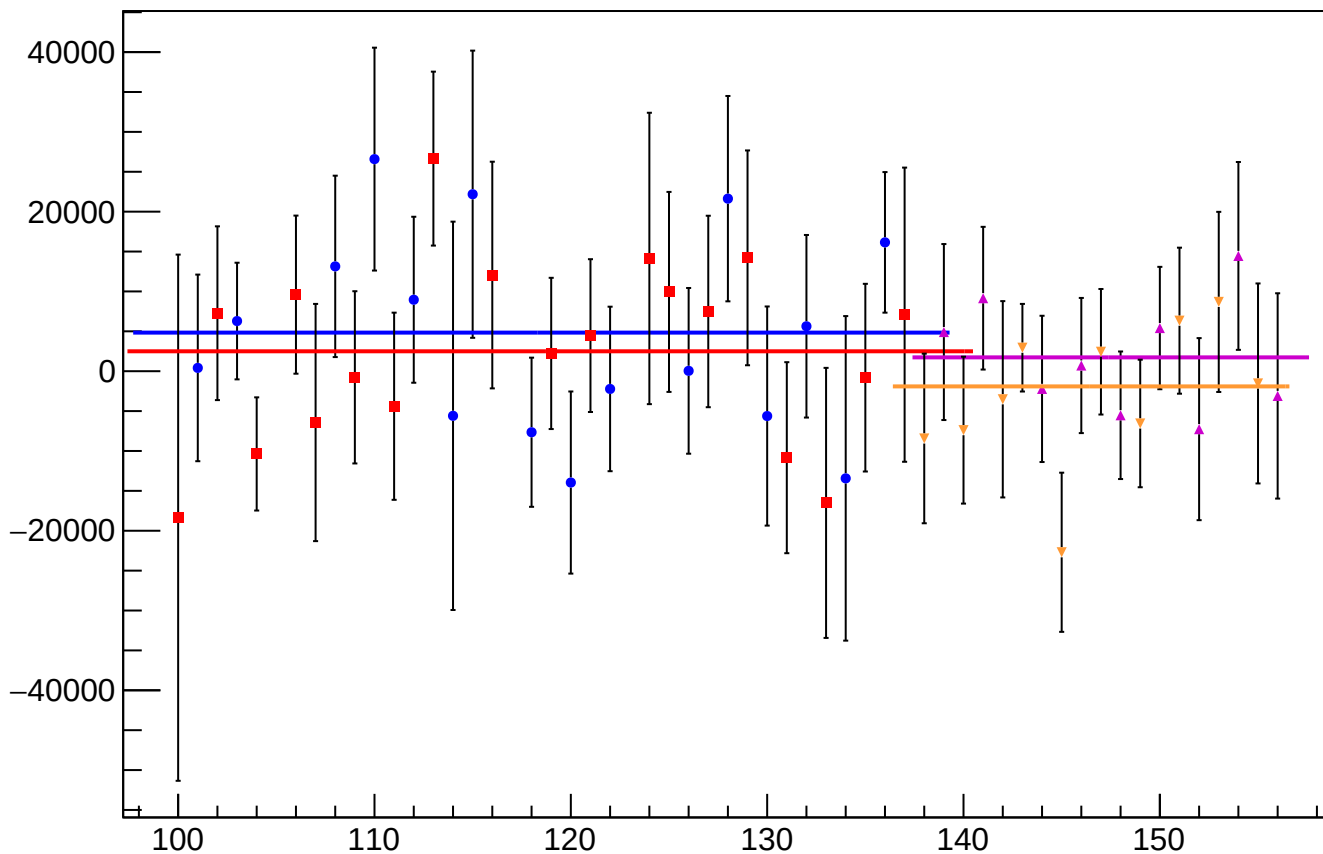
Right: 7044.596 $\pm$ 1.327 χ^2 /NDF: 1102651.2/34

In: 8073.884 $\pm$ 1.503 χ^2 /NDF: 1100582.8/24

Out: 7187.360 $\pm$ 1.340 χ^2 /NDF: 1716793.9/28

All: 7579.927 $\pm$ 1.000 χ^2 /NDF: 3011181.9/53

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4837.820+/-2828.918 χ^2/NDF : 14.3/15

Left Out: -1905.438+/-2790.562 χ^2/NDF : 8.2/9

Right Out: 2495.844+/-2695.530 χ^2/NDF : 14.9/18

Left In: 1733.509+/-3160.327 χ^2/NDF : 4.0/8

Left: -311.205+/-2091.799 χ^2/NDF : 12.9/18

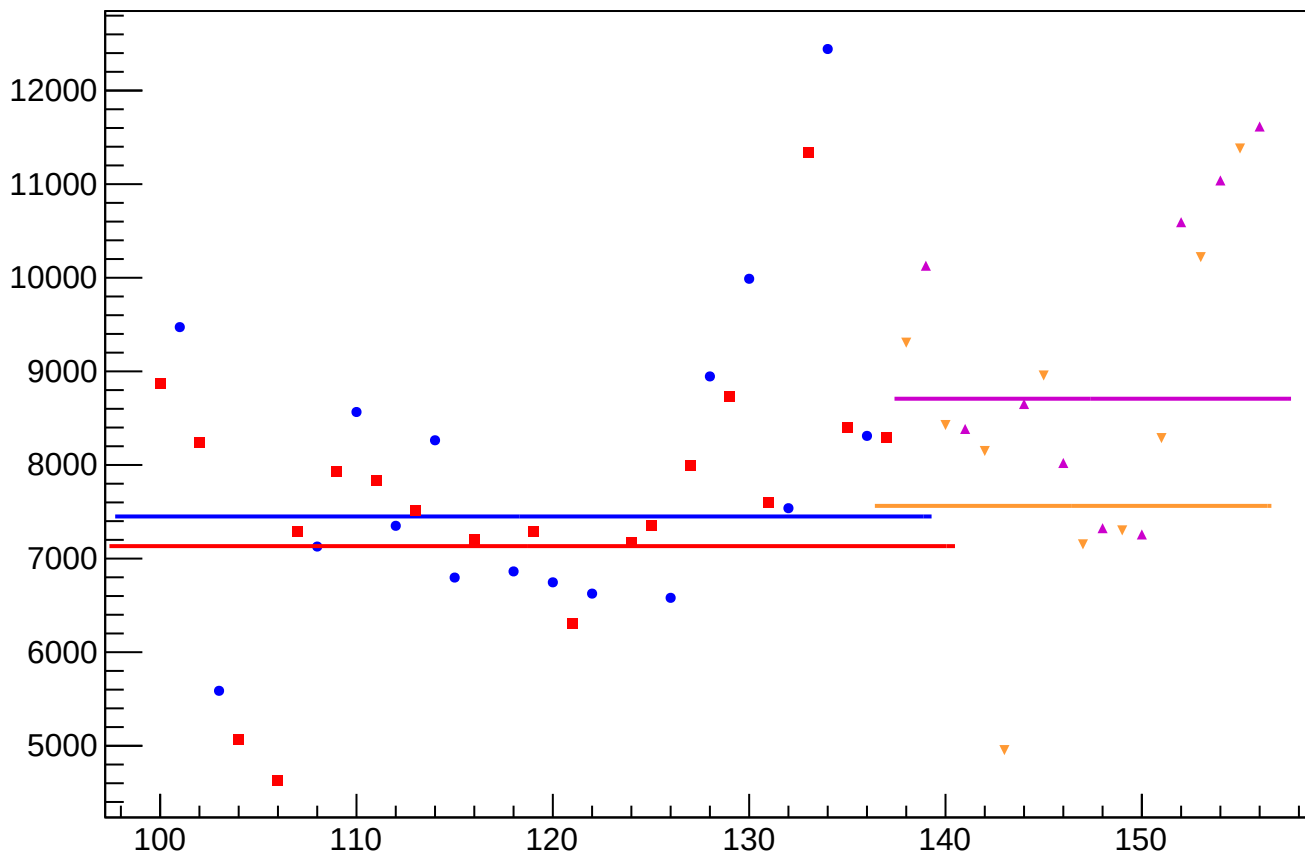
Right: 3610.318+/-1951.480 χ^2/NDF : 29.6/34

In: 3456.915+/-2107.810 χ^2/NDF : 18.8/24

Out: 371.420+/-1938.754 χ^2/NDF : 24.4/28

All: 1785.487+/-1426.934 χ^2/NDF : 44.4/53

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7449.985 $\pm$ 2.000 χ^2 /NDF: 486427.7/15

Left Out: 7563.041 $\pm$ 1.973 χ^2 /NDF: 882937.6/9

Right Out: 7133.115 $\pm$ 1.906 χ^2 /NDF: 556993.0/18

Left In: 8707.773 $\pm$ 2.235 χ^2 /NDF: 415505.2/8

Left: 8064.551 $\pm$ 1.479 χ^2 /NDF: 1445888.0/18

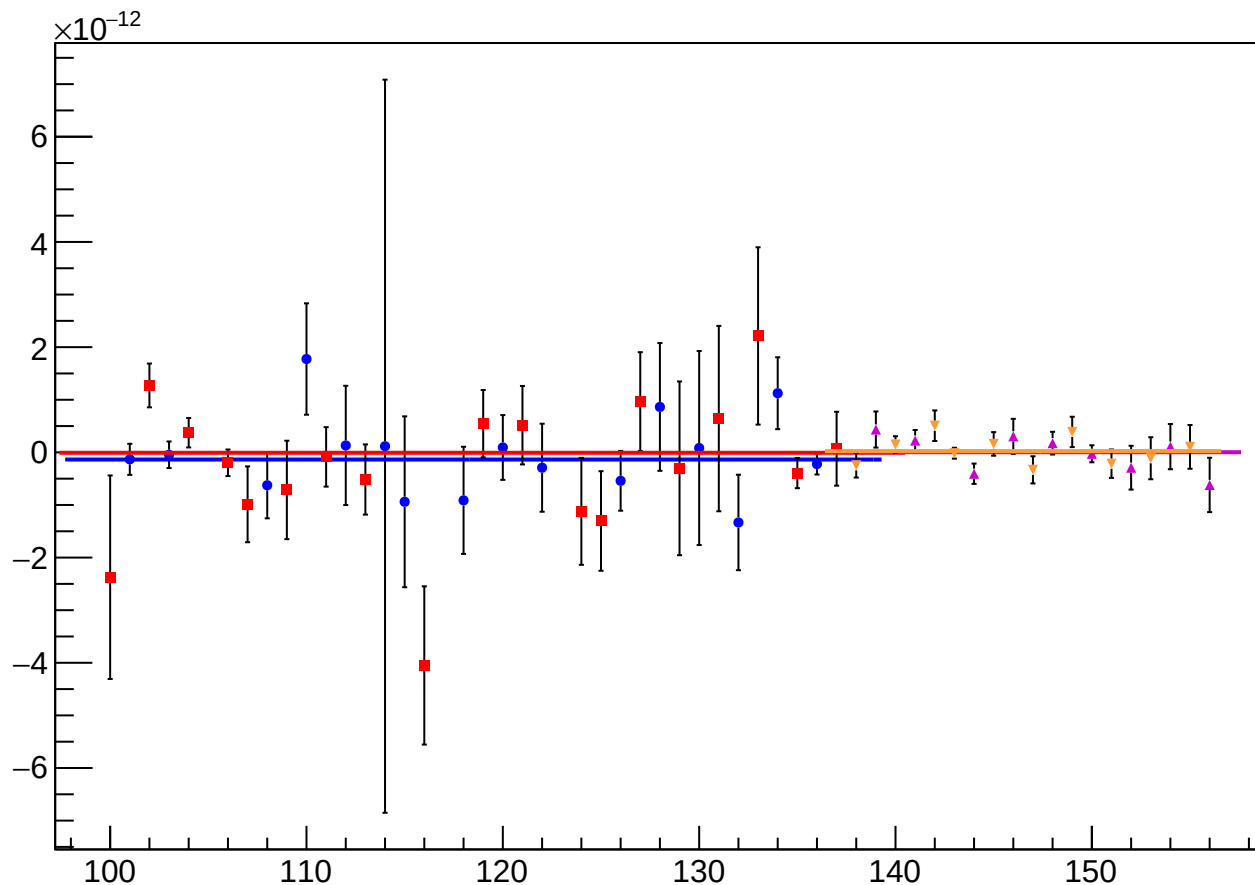
Right: 7283.894 $\pm$ 1.380 χ^2 /NDF: 1056573.7/34

In: 8009.488 $\pm$ 1.490 χ^2 /NDF: 1077808.8/24

Out: 7340.618 $\pm$ 1.371 χ^2 /NDF: 1464490.1/28

All: 7647.147 $\pm$ 1.009 χ^2 /NDF: 2651400.3/53

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 : 9.6/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 32.8/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.8/8

Left: 0.000 ± 0.000 χ^2/NDF : 20.5/18

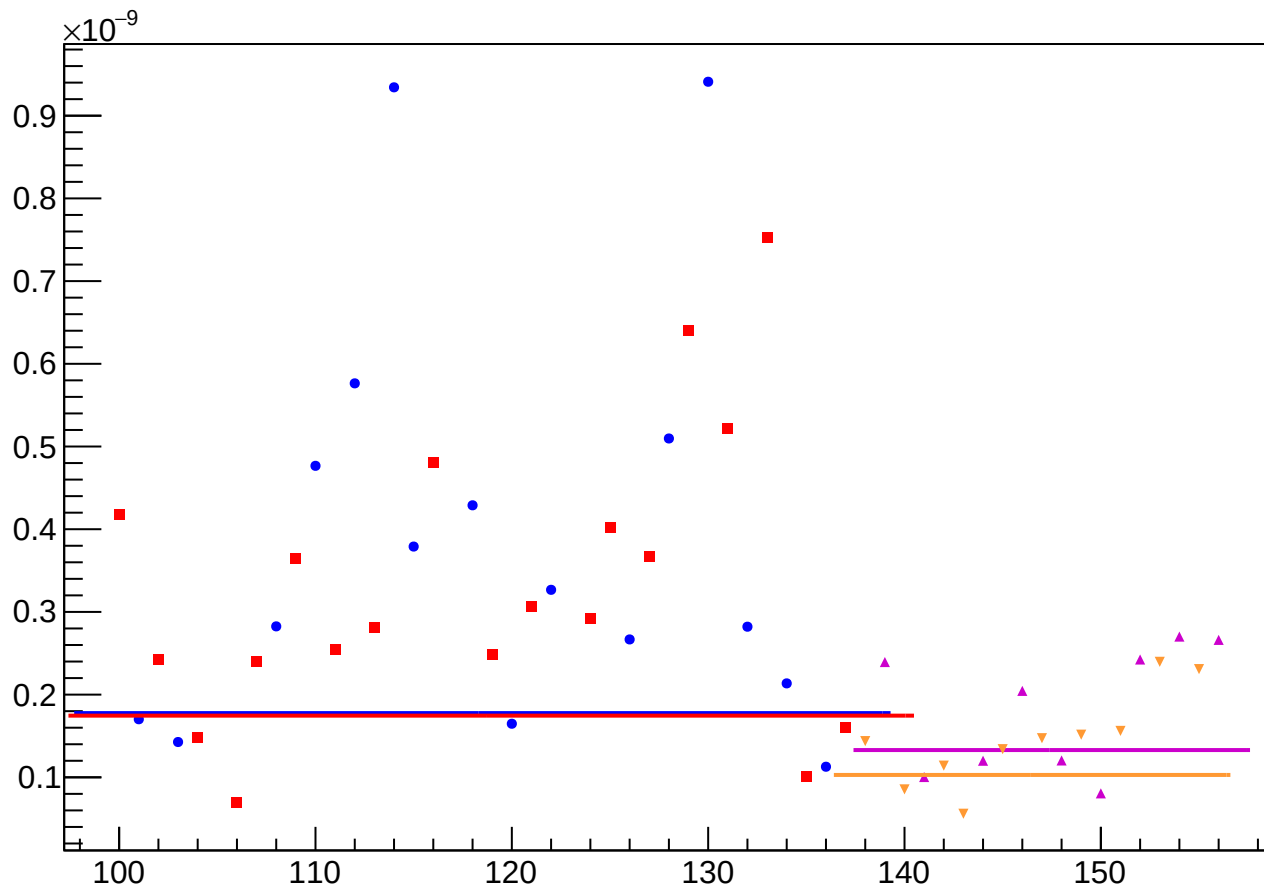
Right: -0.000 ± 0.000 χ^2/NDF : 44.9/34

In: -0.000 ± 0.000 χ^2/NDF : 23.3/24

Out: 0.000 ± 0.000 χ^2/NDF : 42.4/28

All: -0.000 ± 0.000 χ^2/NDF : 66.2/53

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 : 1156967.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1641366.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1037382.2/8

Left: 0.000+/-0.000 χ^2/NDF : 2355970.3/18

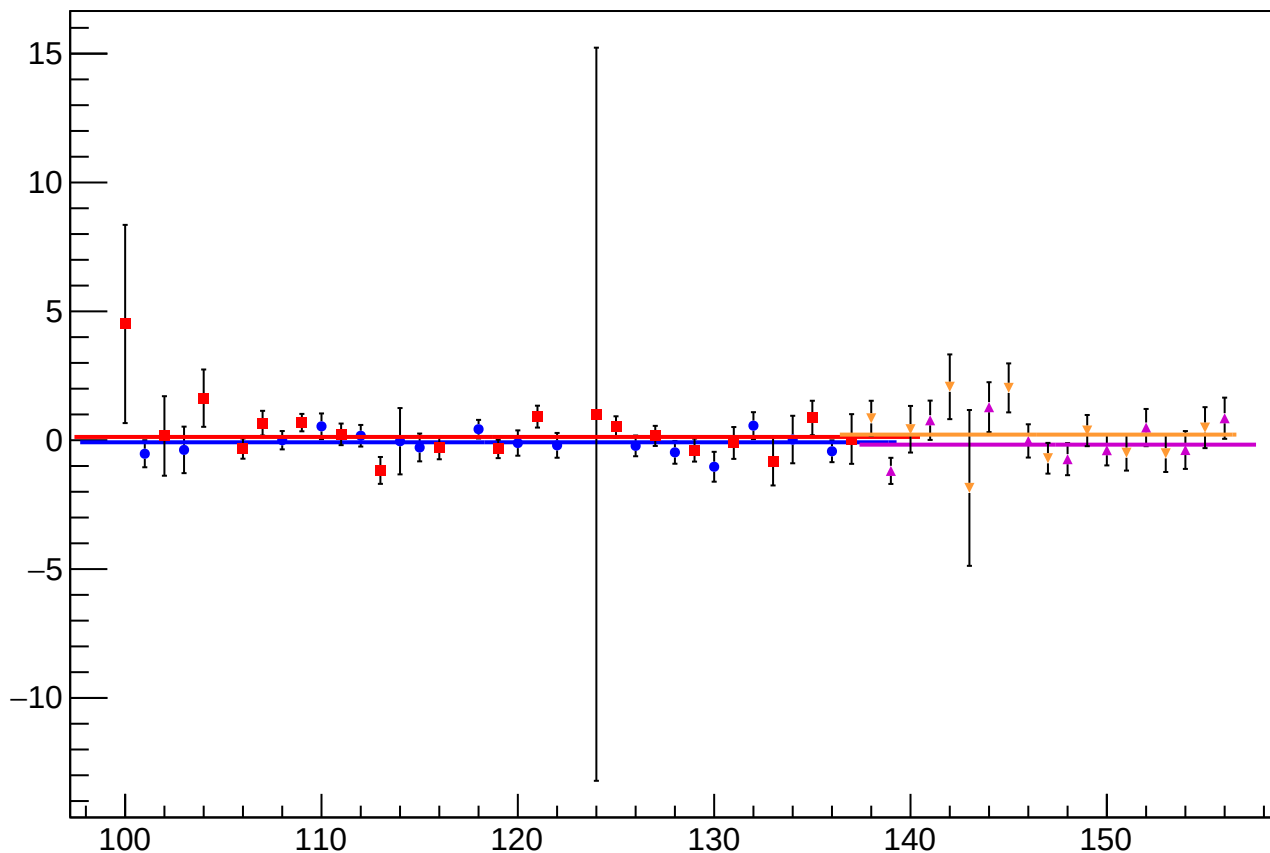
Right: 0.000+/-0.000 χ^2/NDF : 3172068.5/34

In: 0.000+/-0.000 χ^2/NDF : 2754625.1/24

Out: 0.000+/-0.000 χ^2/NDF : 3329006.6/28

All: 0.000+/-0.000 χ^2/NDF : 6293638.6/53

asym_at2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 $\chi^2/\text{NDF}: 10.8/15$

Left Out: 0.218 ± 0.247 $\chi^2/\text{NDF}: 11.8/9$

Right Out: 0.128 ± 0.117 $\chi^2/\text{NDF}: 25.3/18$

Left In: -0.172 ± 0.224 $\chi^2/\text{NDF}: 11.4/8$

Left: 0.004 ± 0.166 $\chi^2/\text{NDF}: 24.5/18$

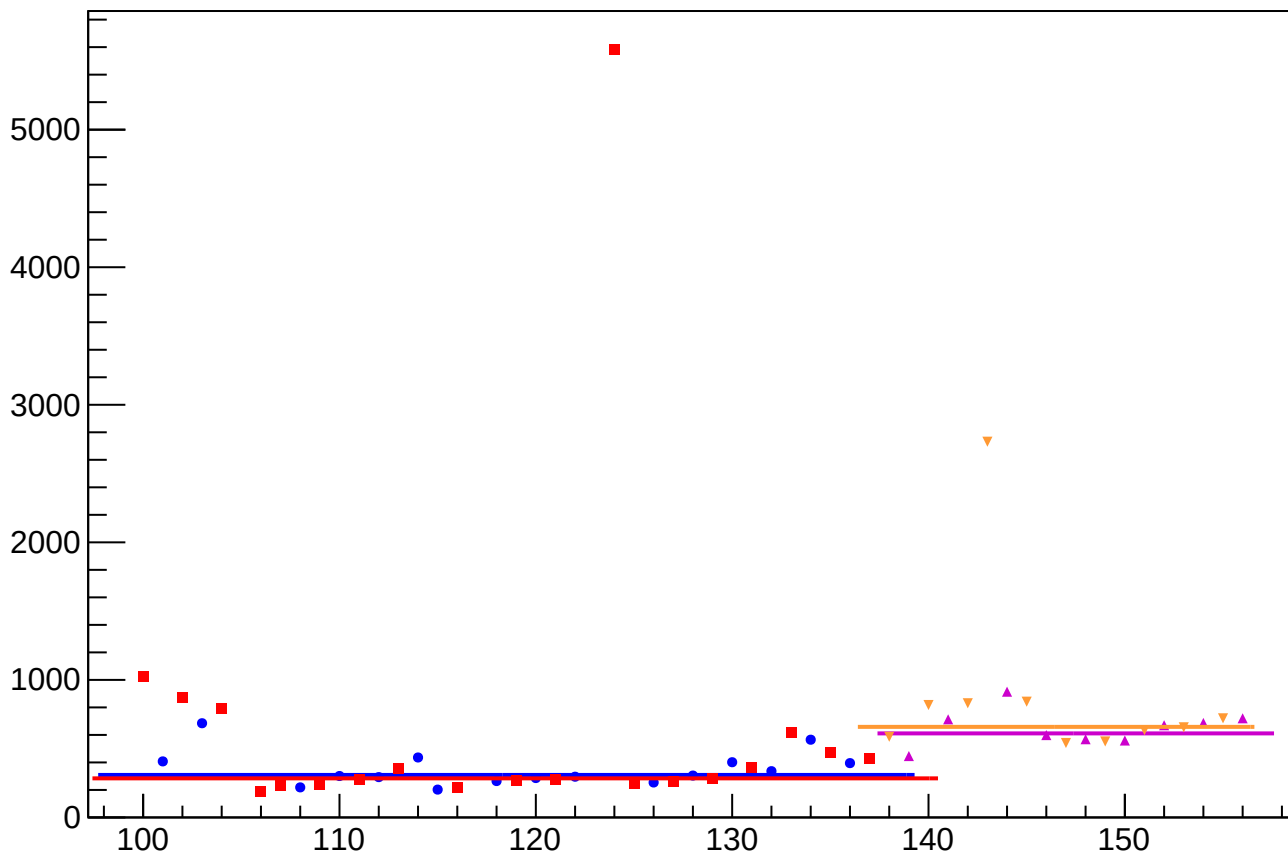
Right: 0.028 ± 0.084 $\chi^2/\text{NDF}: 37.5/34$

In: -0.101 ± 0.107 $\chi^2/\text{NDF}: 22.3/24$

Out: 0.144 ± 0.106 $\chi^2/\text{NDF}: 37.2/28$

All: 0.023 ± 0.075 $\chi^2/\text{NDF}: 62.1/53$

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: 658.552+/-0.175 χ^2/NDF : 1289105.9/9

Right Out: 284.189+/-0.083 χ^2/NDF : 1856451.4/18

Left In: 611.086+/-0.159 χ^2/NDF : 541118.3/8

Left: 632.517+/-0.118 χ^2/NDF : 1870616.4/18

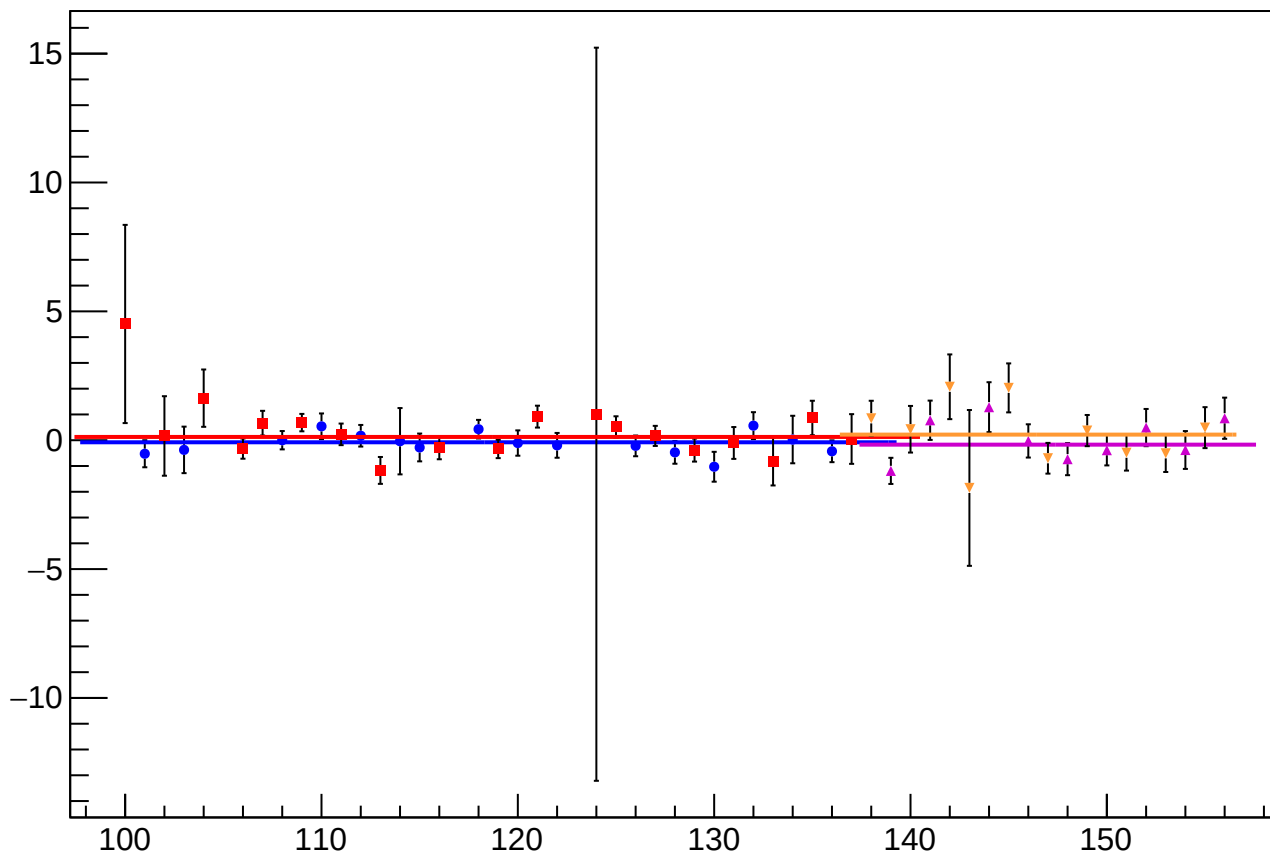
Right: 296.124+/-0.060 χ^2/NDF : 2914551.5/34

In: 377.862+/-0.076 χ^2/NDF : 4352447.4/24

Out: 352.543+/-0.075 χ^2/NDF : 6889971.3/28

All: 365.037+/-0.053 χ^2/NDF : 11299040.5/53

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: 0.218 ± 0.247 χ^2/NDF : 11.8/9

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.172 ± 0.224 χ^2/NDF : 11.4/8

Left: 0.004 ± 0.166 χ^2/NDF : 24.5/18

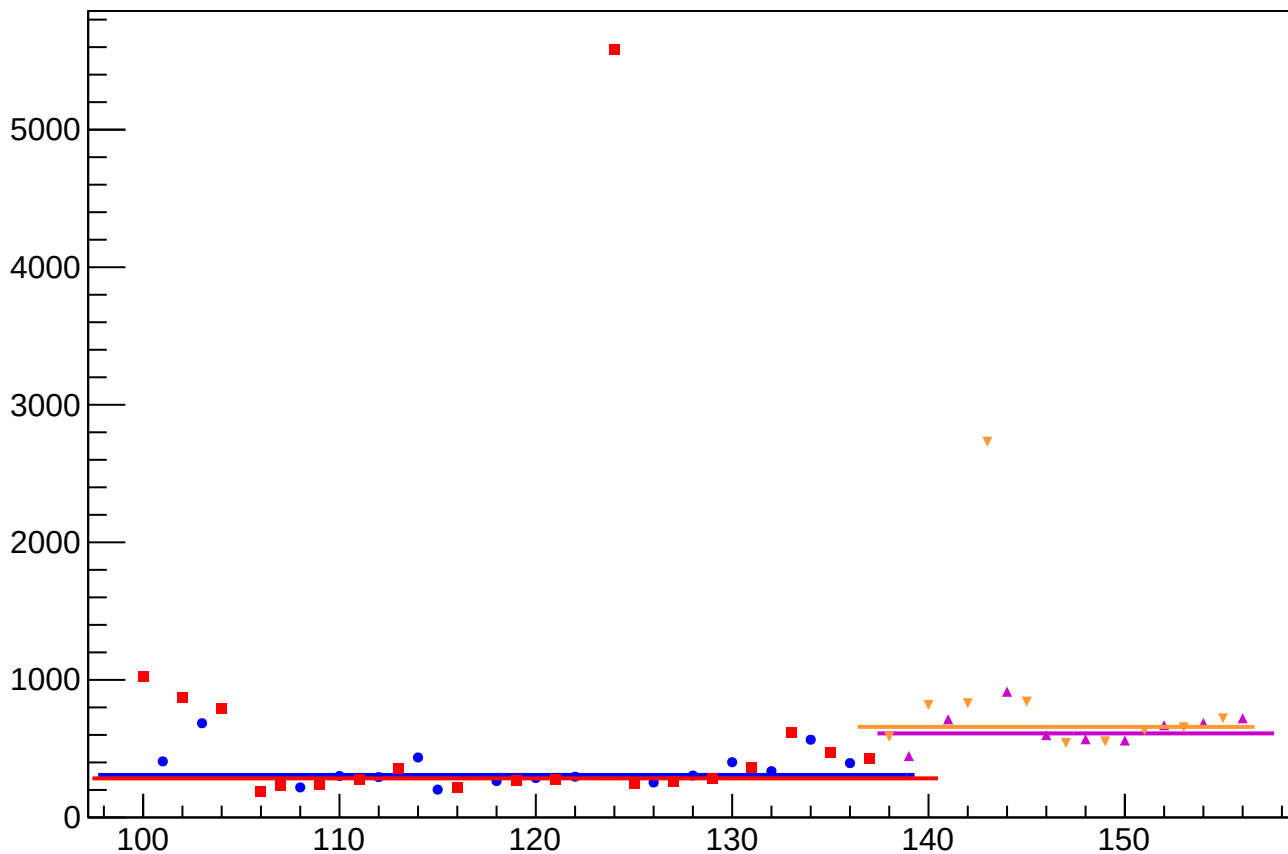
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.101 ± 0.107 χ^2/NDF : 22.3/24

Out: 0.144 ± 0.106 χ^2/NDF : 37.2/28

All: 0.023 ± 0.075 χ^2/NDF : 62.1/53

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093 $\pm$ 0.086 χ^2/NDF : 1014604.9/15

Left Out: 658.552 $\pm$ 0.175 χ^2/NDF : 1289105.9/9

Right Out: 284.189 $\pm$ 0.083 χ^2/NDF : 1856451.4/18

Left In: 611.086 $\pm$ 0.159 χ^2/NDF : 541118.3/8

Left: 632.517 $\pm$ 0.118 χ^2/NDF : 1870616.4/18

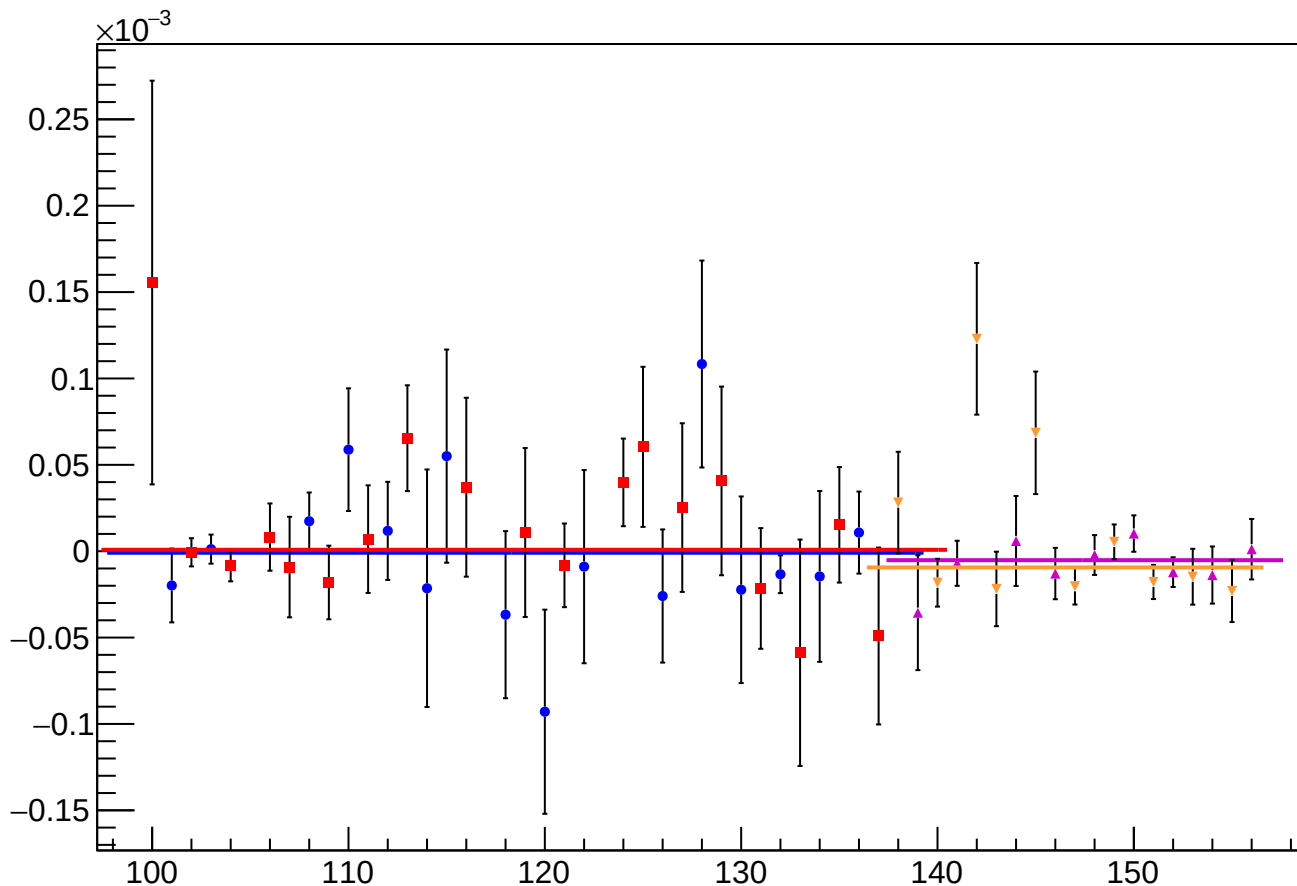
Right: 296.124 $\pm$ 0.060 χ^2/NDF : 2914551.5/34

In: 377.862 $\pm$ 0.076 χ^2/NDF : 4352447.4/24

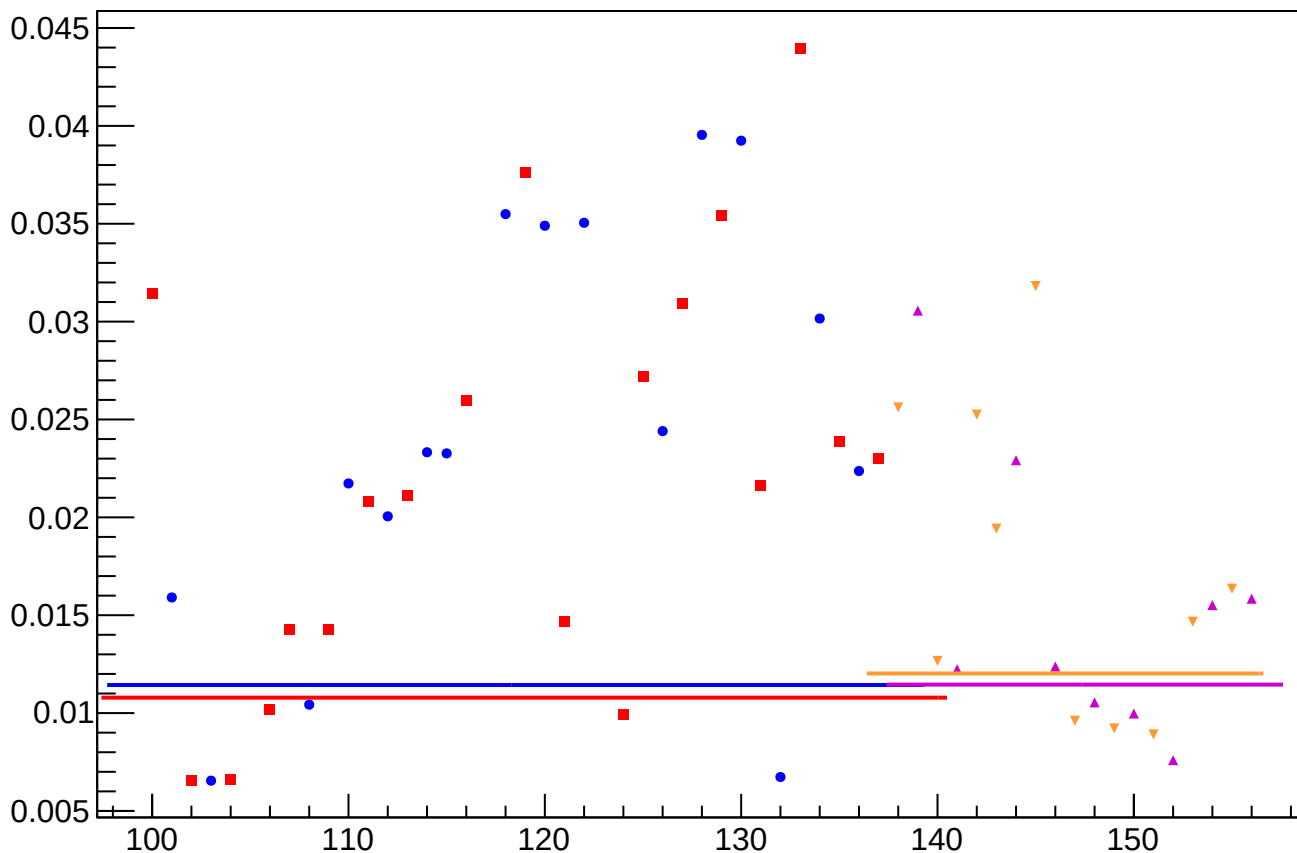
Out: 352.543 $\pm$ 0.075 χ^2/NDF : 6889971.3/28

All: 365.037 $\pm$ 0.053 χ^2/NDF : 11299040.5/53

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



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: 0.012+/-0.000 χ^2/NDF :2098222.6/9

Right Out: 0.011+/-0.000 χ^2/NDF : 4473688.9/18

Left In: 0.011+/-0.000 χ^2/NDF :1762669.5/8

Left: 0.012+/-0.000 χ^2/NDF : 3876348.5/18

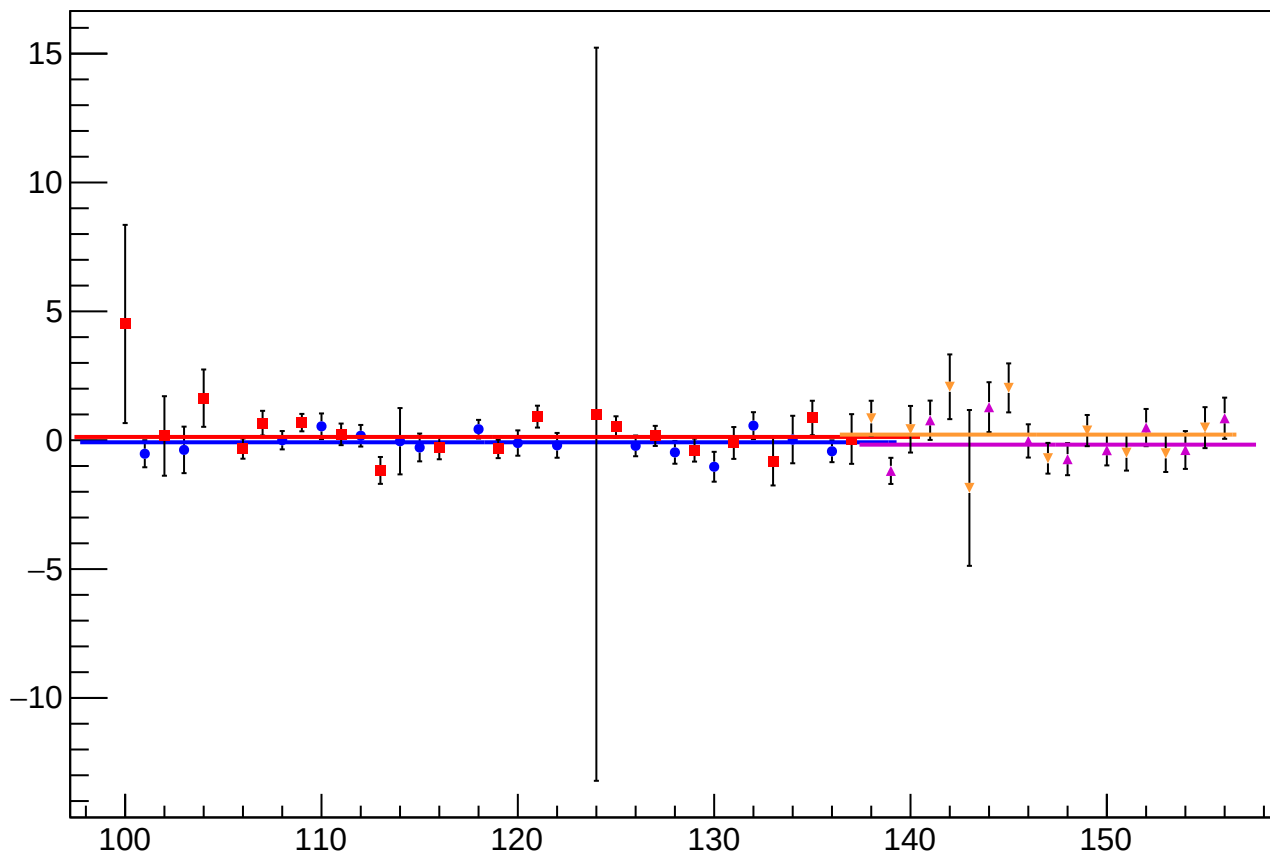
Right: 0.011+/-0.000 χ^2/NDF : 9189725.1/34

In: 0.011+/-0.000 χ^2/NDF :6462623.7/24

Out: 0.011+/-0.000 χ^2/NDF :6639214.6/28

All: 0.011+/-0.000 χ^2/NDF : 13101866.0/53

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 $\chi^2/\text{NDF}: 10.8/15$

Left Out: 0.218 ± 0.247 $\chi^2/\text{NDF}: 11.8/9$

Right Out: 0.128 ± 0.117 $\chi^2/\text{NDF}: 25.3/18$

Left In: -0.172 ± 0.224 $\chi^2/\text{NDF}: 11.4/8$

Left: 0.004 ± 0.166 $\chi^2/\text{NDF}: 24.5/18$

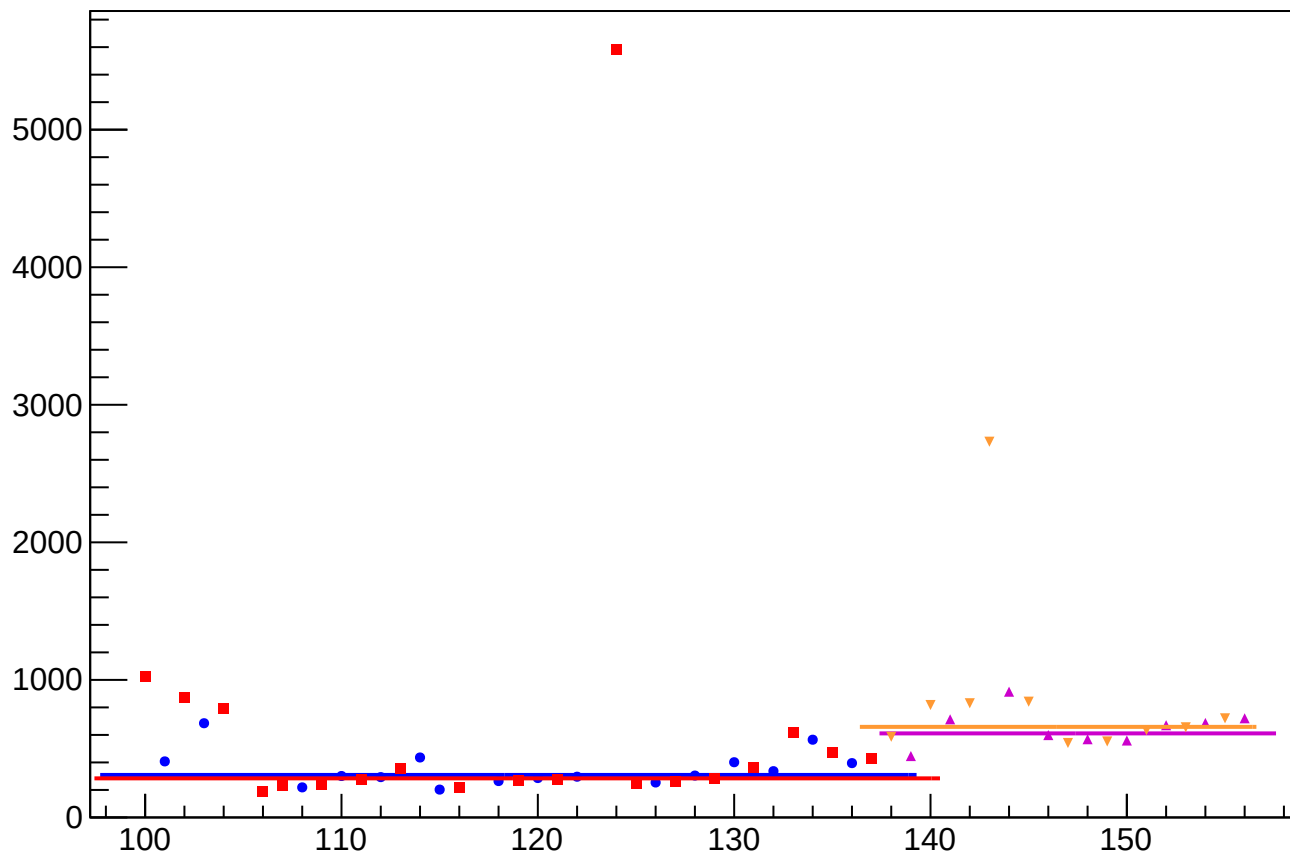
Right: 0.028 ± 0.084 $\chi^2/\text{NDF}: 37.5/34$

In: -0.101 ± 0.107 $\chi^2/\text{NDF}: 22.3/24$

Out: 0.144 ± 0.106 $\chi^2/\text{NDF}: 37.2/28$

All: 0.023 ± 0.075 $\chi^2/\text{NDF}: 62.1/53$

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: 658.559+/-0.175 χ^2/NDF :1289106.5/9

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 611.095+/-0.159 χ^2/NDF :541100.4/8

Left: 632.525+/-0.118 χ^2/NDF : 1870595.7/18

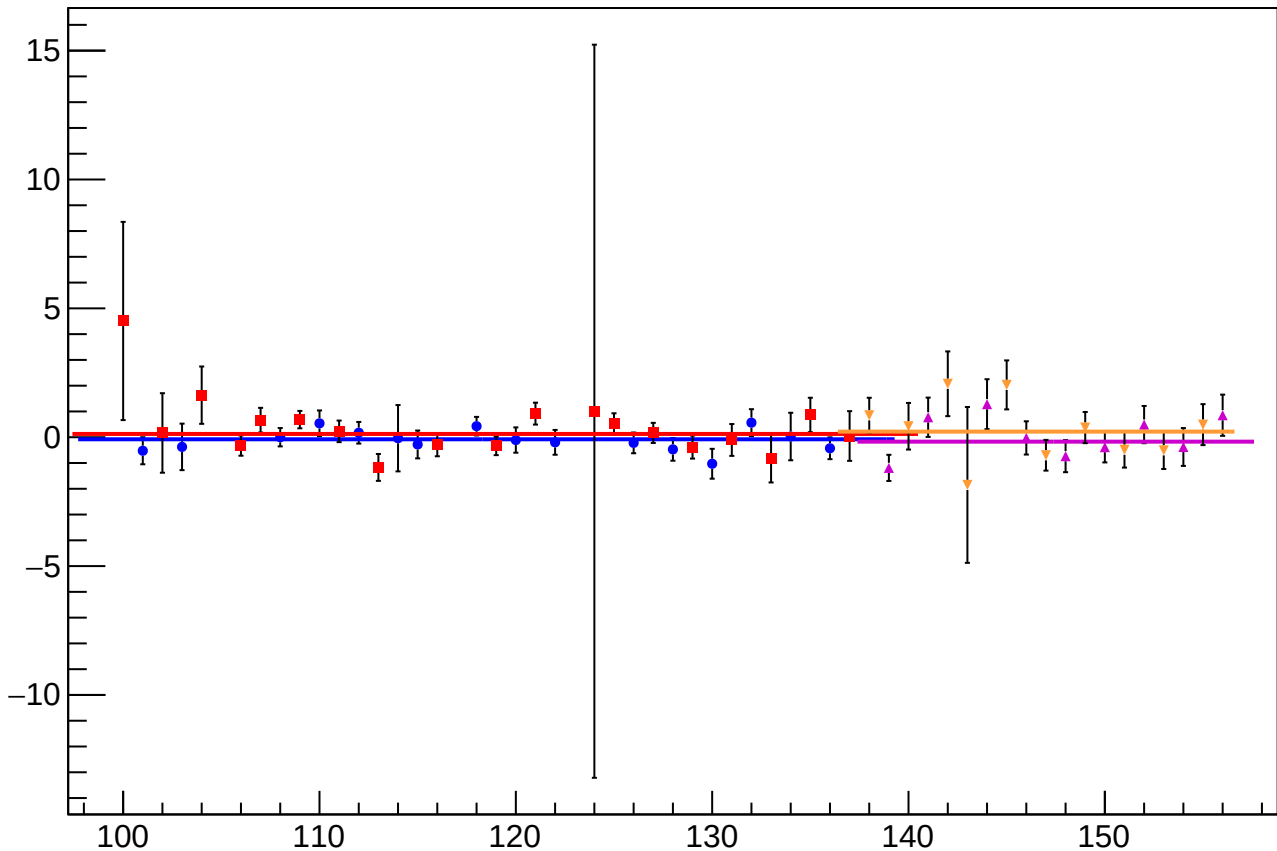
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 377.861+/-0.076 χ^2/NDF :4352515.0/24

Out: 352.543+/-0.075 χ^2/NDF :6890048.2/28

All: 365.036+/-0.053 χ^2/NDF : 11299186.4/53

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: 0.218 ± 0.247 χ^2/NDF : 11.8/9

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.172 ± 0.224 χ^2/NDF : 11.4/8

Left: 0.004 ± 0.166 χ^2/NDF : 24.5/18

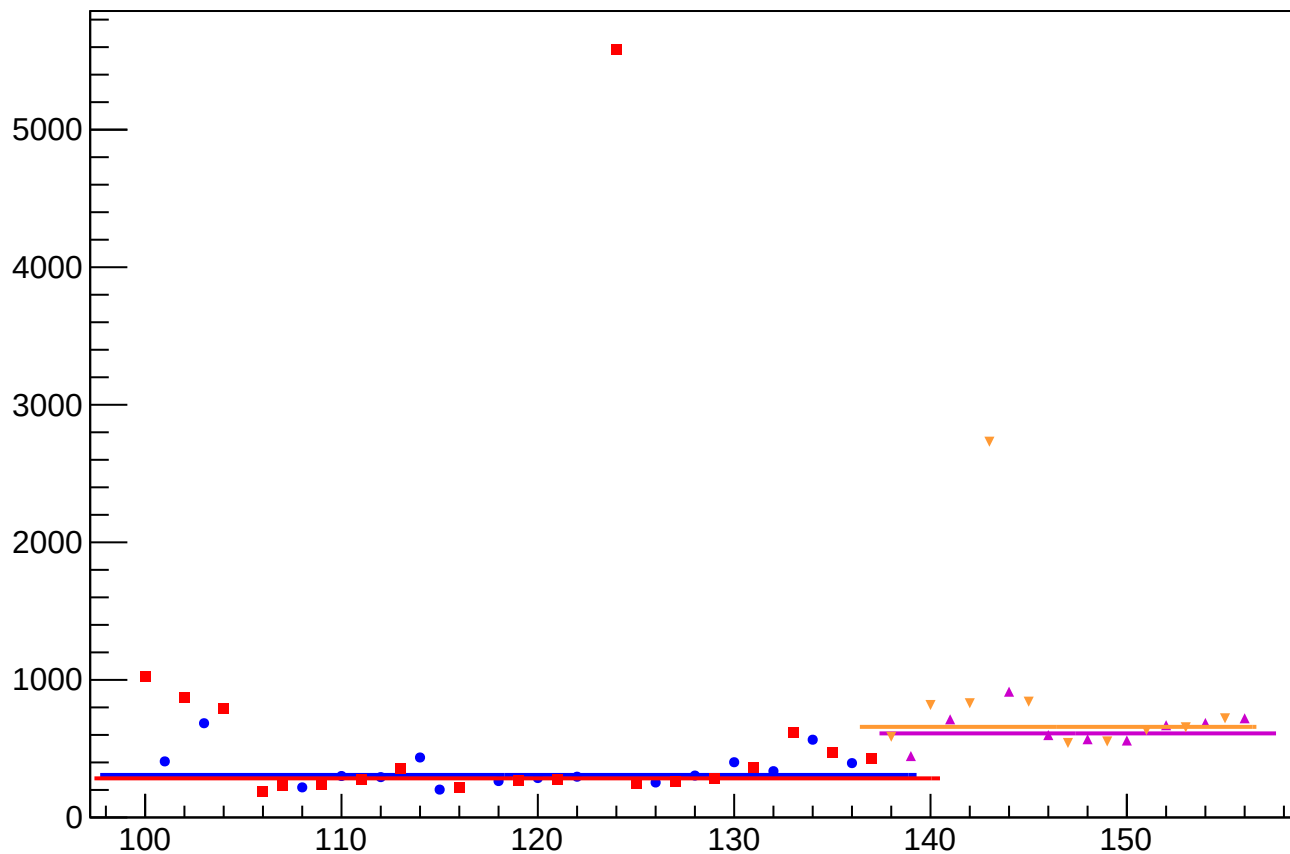
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.101 ± 0.107 χ^2/NDF : 22.3/24

Out: 0.144 ± 0.106 χ^2/NDF : 37.2/28

All: 0.023 ± 0.075 χ^2/NDF : 62.1/53

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: 658.559+/-0.175 χ^2/NDF :1289106.5/9

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 611.095+/-0.159 χ^2/NDF :541100.4/8

Left: 632.525+/-0.118 χ^2/NDF : 1870595.7/18

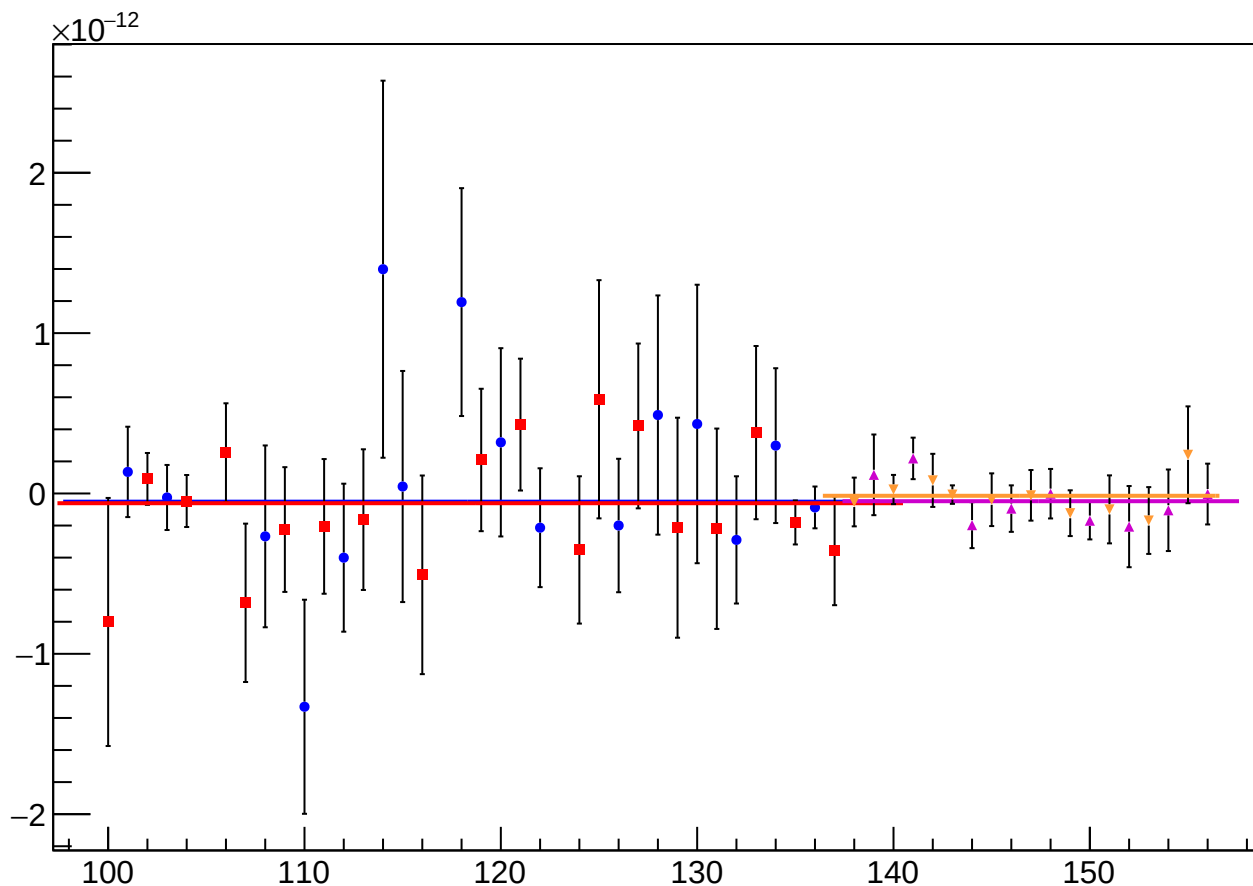
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 377.861+/-0.076 χ^2/NDF :4352515.0/24

Out: 352.543+/-0.075 χ^2/NDF :6890048.2/28

All: 365.036+/-0.053 χ^2/NDF : 11299186.4/53

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 : 2.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 11.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 7.5/8

Left: -0.000+/-0.000 χ^2/NDF : 10.4/18

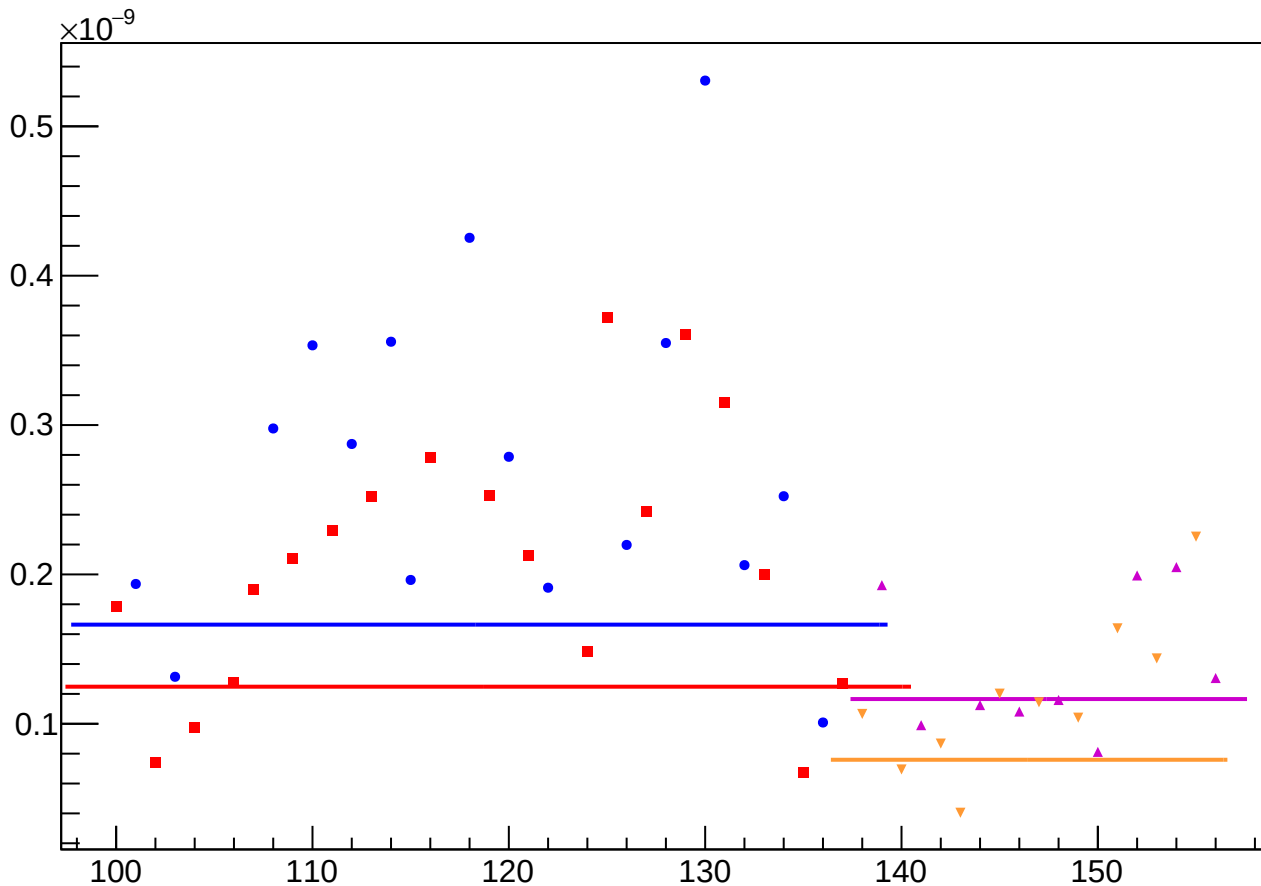
Right: -0.000+/-0.000 χ^2/NDF : 23.4/34

In: -0.000+/-0.000 χ^2/NDF : 19.5/24

Out: -0.000+/-0.000 χ^2/NDF : 14.4/28

All: -0.000+/-0.000 χ^2/NDF : 34.1/53

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 χ^2/NDF : 2244425.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2209554.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 877907.2/8

Left: 0.000+/-0.000 χ^2/NDF : 3881200.4/18

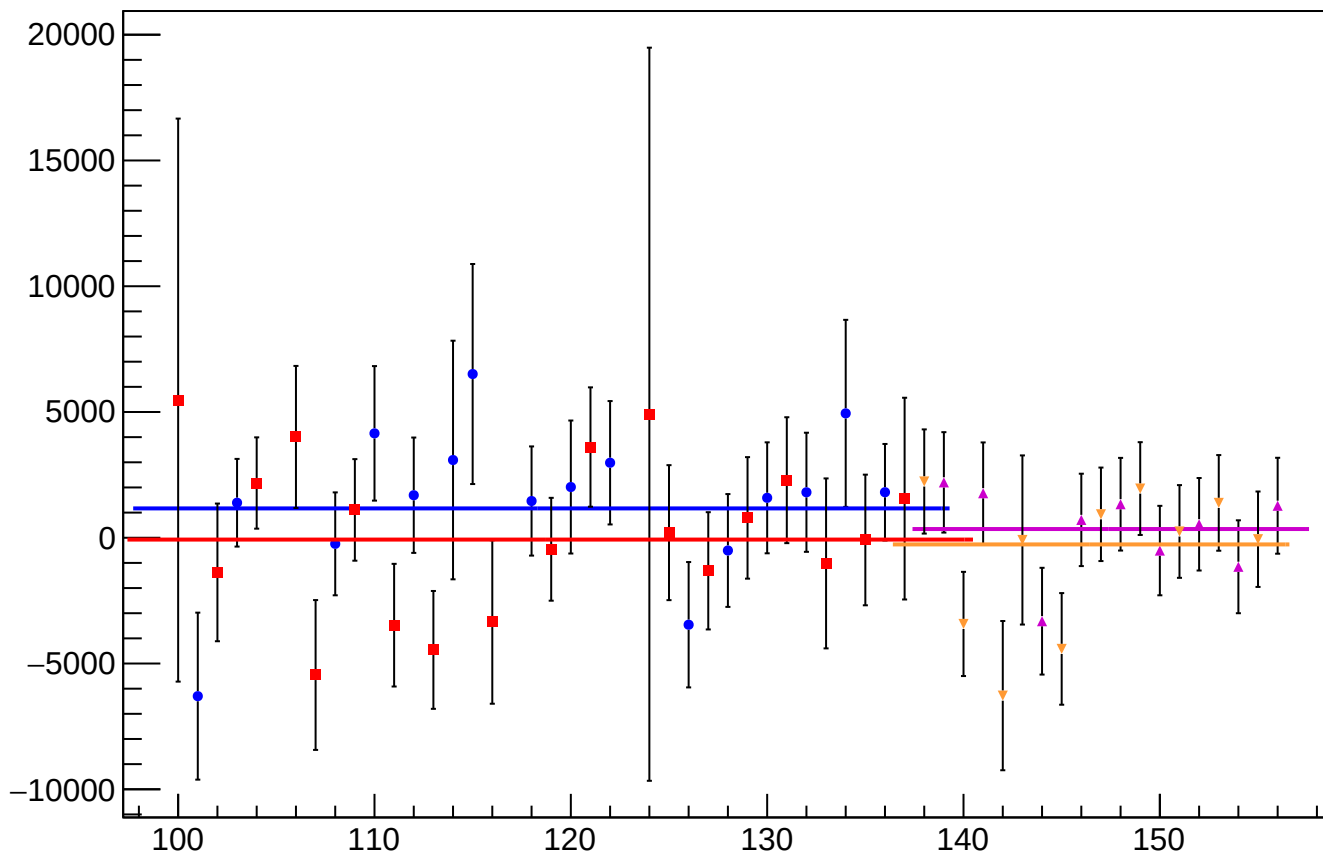
Right: 0.000+/-0.000 χ^2/NDF : 4480530.9/34

In: 0.000+/-0.000 χ^2/NDF : 3357286.0/24

Out: 0.000+/-0.000 χ^2/NDF : 5205616.1/28

All: 0.000+/-0.000 χ^2/NDF : 9766436.4/53

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.862 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: -264.969 $\pm$ 658.882 χ^2 /NDF:14.1/9

Right Out: -72.181 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 347.037 $\pm$ 633.789 χ^2 /NDF:5.8/8

Left: 52.910 $\pm$ 456.770 χ^2 /NDF: 20.4/18

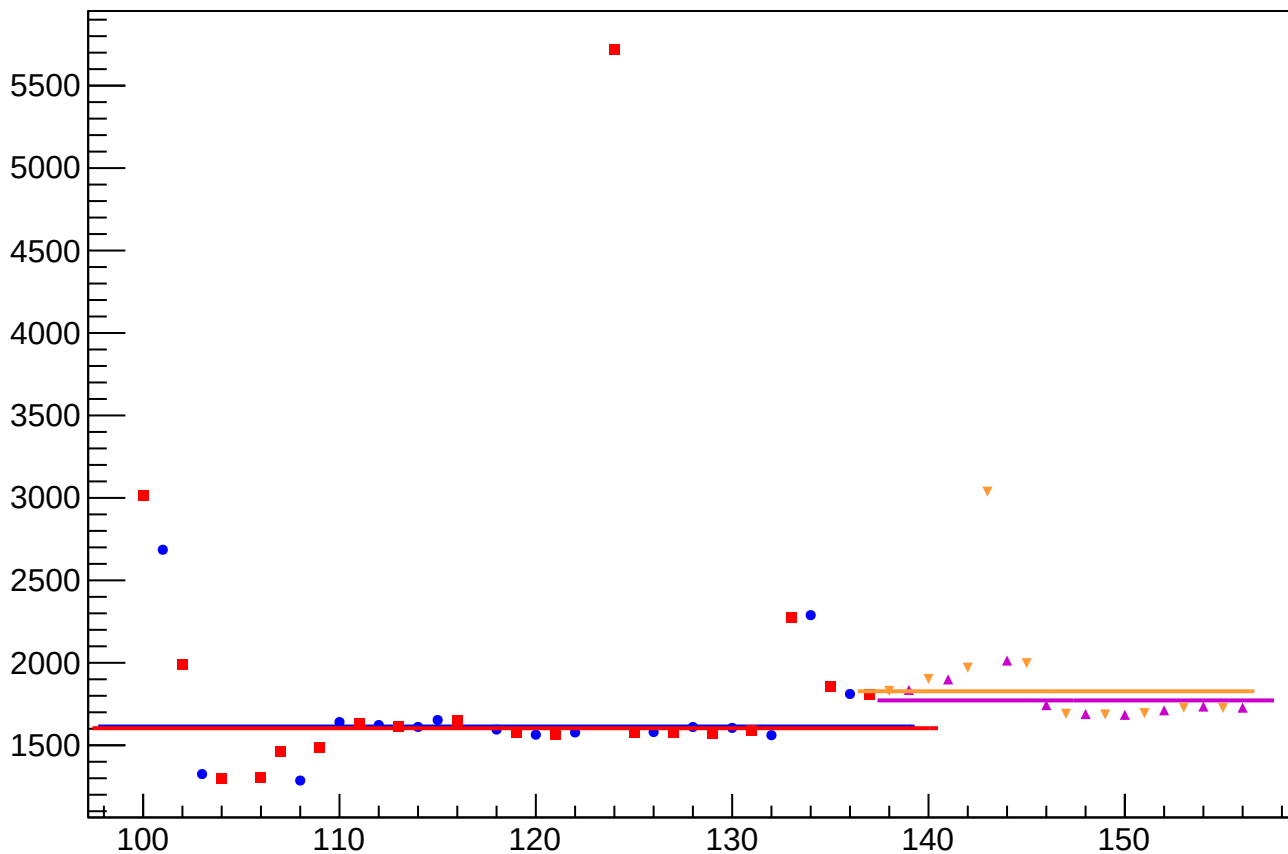
Right: 541.404 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 773.181 $\pm$ 439.194 χ^2 /NDF:21.1/24

Out: -160.111 $\pm$ 444.977 χ^2 /NDF:32.4/28

All: 312.638 $\pm$ 312.582 χ^2 /NDF: 55.8/53

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674 ± 0.431 $\chi^2/\text{NDF}: 404688.5/15$

Left Out: 1827.422 ± 0.466 $\chi^2/\text{NDF}: 322173.1/9$

Right Out: 1603.464 ± 0.427 $\chi^2/\text{NDF}: 425793.5/18$

Left In: 1771.922 ± 0.448 $\chi^2/\text{NDF}: 49284.4/8$

Left: 1798.595 ± 0.323 $\chi^2/\text{NDF}: 378828.3/18$

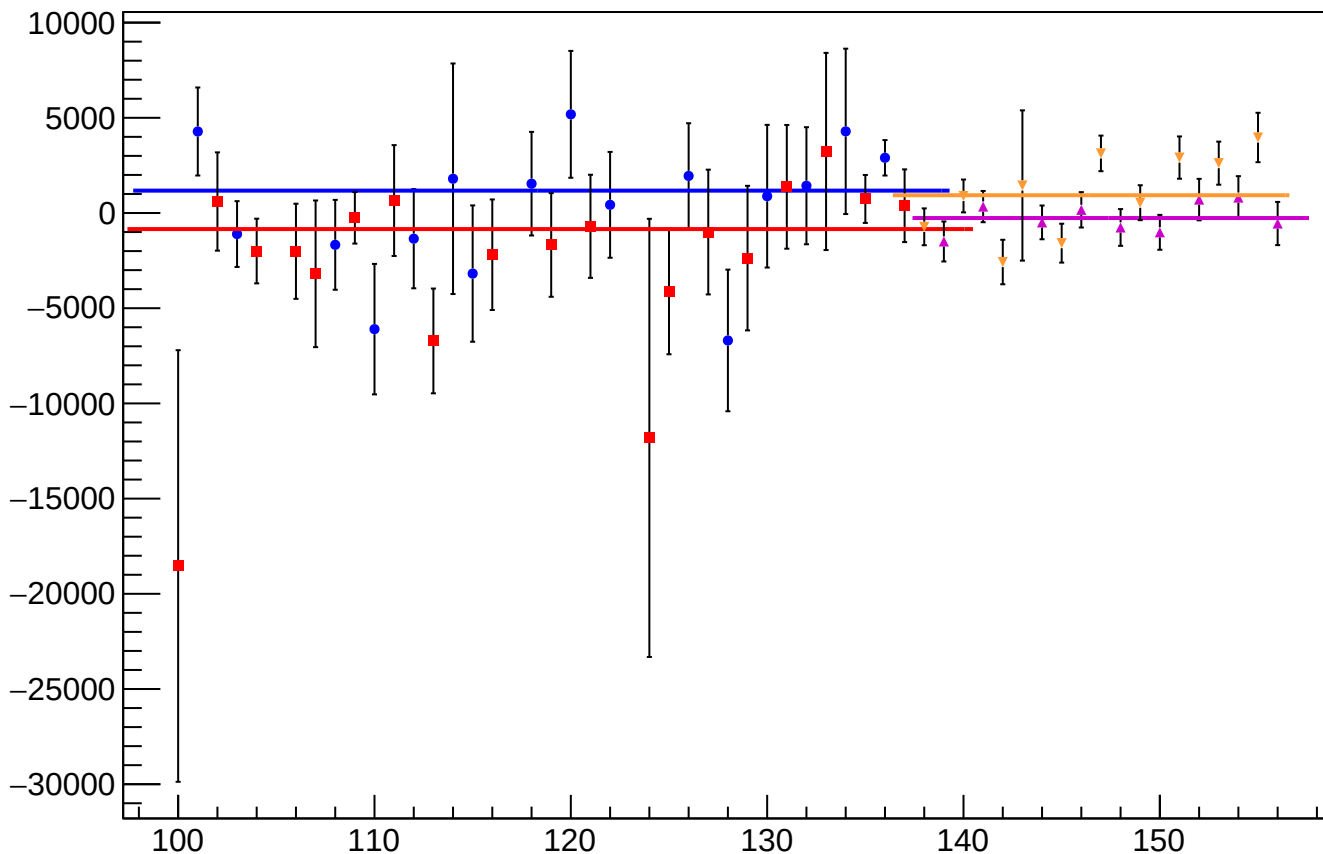
Right: 1608.520 ± 0.303 $\chi^2/\text{NDF}: 830765.6/34$

In: 1689.665 ± 0.311 $\chi^2/\text{NDF}: 518784.3/24$

Out: 1705.611 ± 0.315 $\chi^2/\text{NDF}: 873646.8/28$

All: 1697.533 ± 0.221 $\chi^2/\text{NDF}: 1393732.1/53$

asym_at2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.479+/-579.062 χ^2/NDF : 22.0/15

Left Out: 933.416+/-339.211 χ^2/NDF : 34.6/9

Right Out: -843.857+/-557.438 χ^2/NDF : 14.3/18

Left In: -264.107+/-324.450 χ^2/NDF : 4.9/8

Left: 308.031+/-234.465 χ^2/NDF : 46.0/18

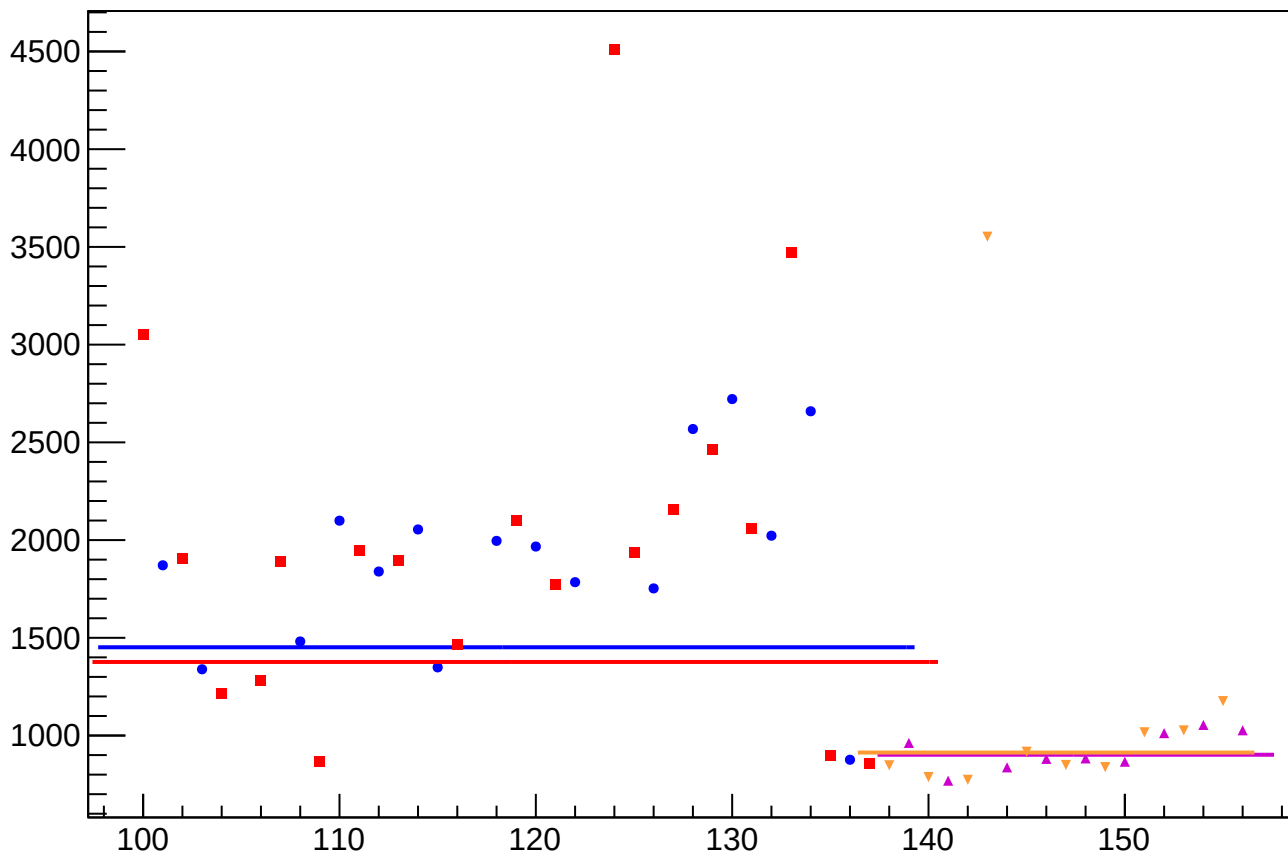
Right: 127.404+/-401.596 χ^2/NDF : 42.6/34

In: 79.851+/-283.048 χ^2/NDF : 31.6/24

Out: 453.145+/-289.777 χ^2/NDF : 56.3/28

All: 262.114+/-202.482 χ^2/NDF : 88.7/53

asym_at2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1451.631 $\pm$ 0.409 χ^2 /NDF: 1790839.5/15

Left Out: 913.063 $\pm$ 0.240 χ^2 /NDF: 1117311.9/9

Right Out: 1376.470 $\pm$ 0.394 χ^2 /NDF: 2132051.1/18

Left In: 901.676 $\pm$ 0.229 χ^2 /NDF: 155990.3/8

Left: 907.117 $\pm$ 0.166 χ^2 /NDF: 1274479.2/18

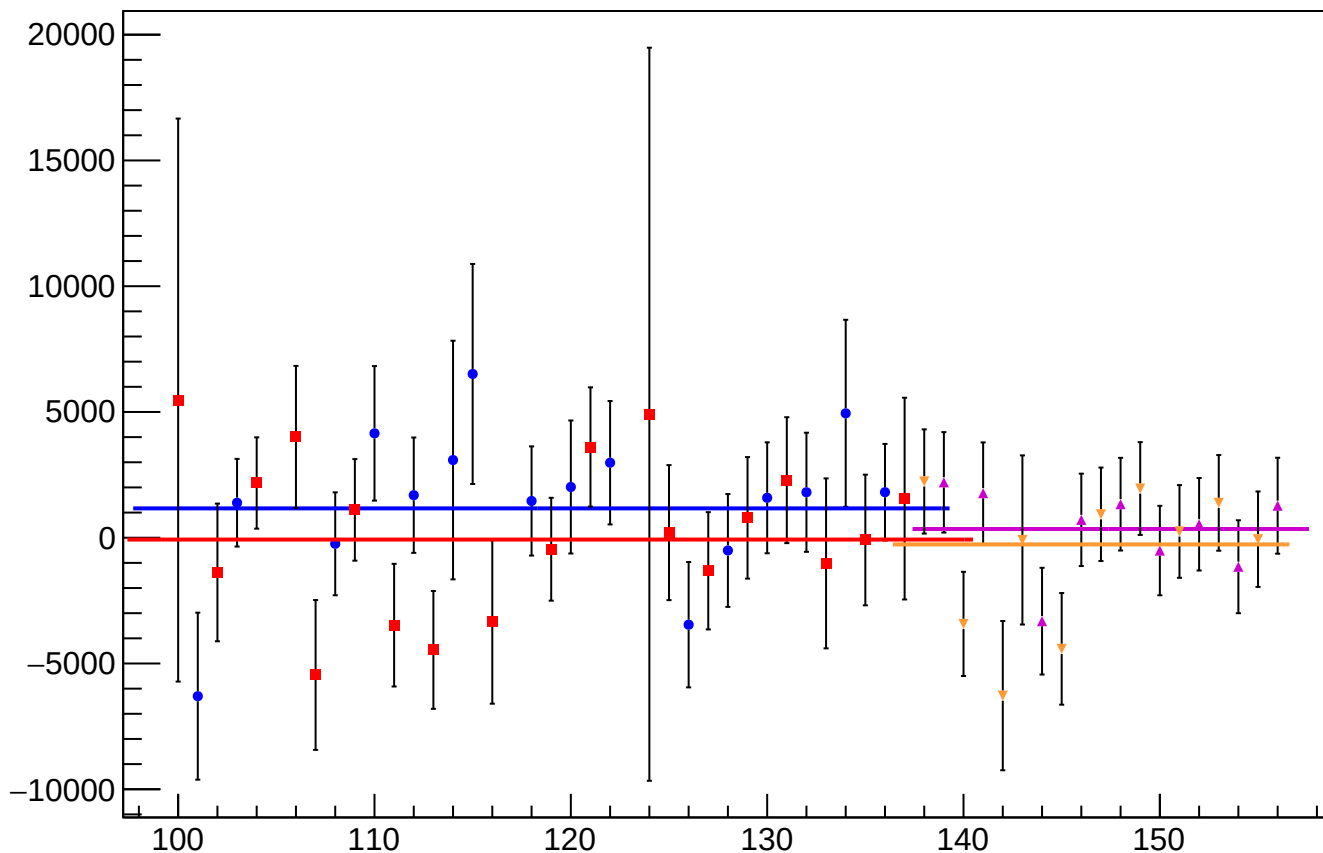
Right: 1412.621 $\pm$ 0.284 χ^2 /NDF: 3940379.2/34

In: 1033.077 $\pm$ 0.200 χ^2 /NDF: 3319792.5/24

Out: 1038.290 $\pm$ 0.205 χ^2 /NDF: 4258027.2/28

All: 1035.622 $\pm$ 0.143 χ^2 /NDF: 7578150.9/53

cor_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.769 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: -265.064 $\pm$ 658.882 χ^2 /NDF:14.1/9

Right Out: -72.499 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 346.992 $\pm$ 633.789 χ^2 /NDF:5.8/8

Left: 52.841 $\pm$ 456.770 χ^2 /NDF: 20.4/18

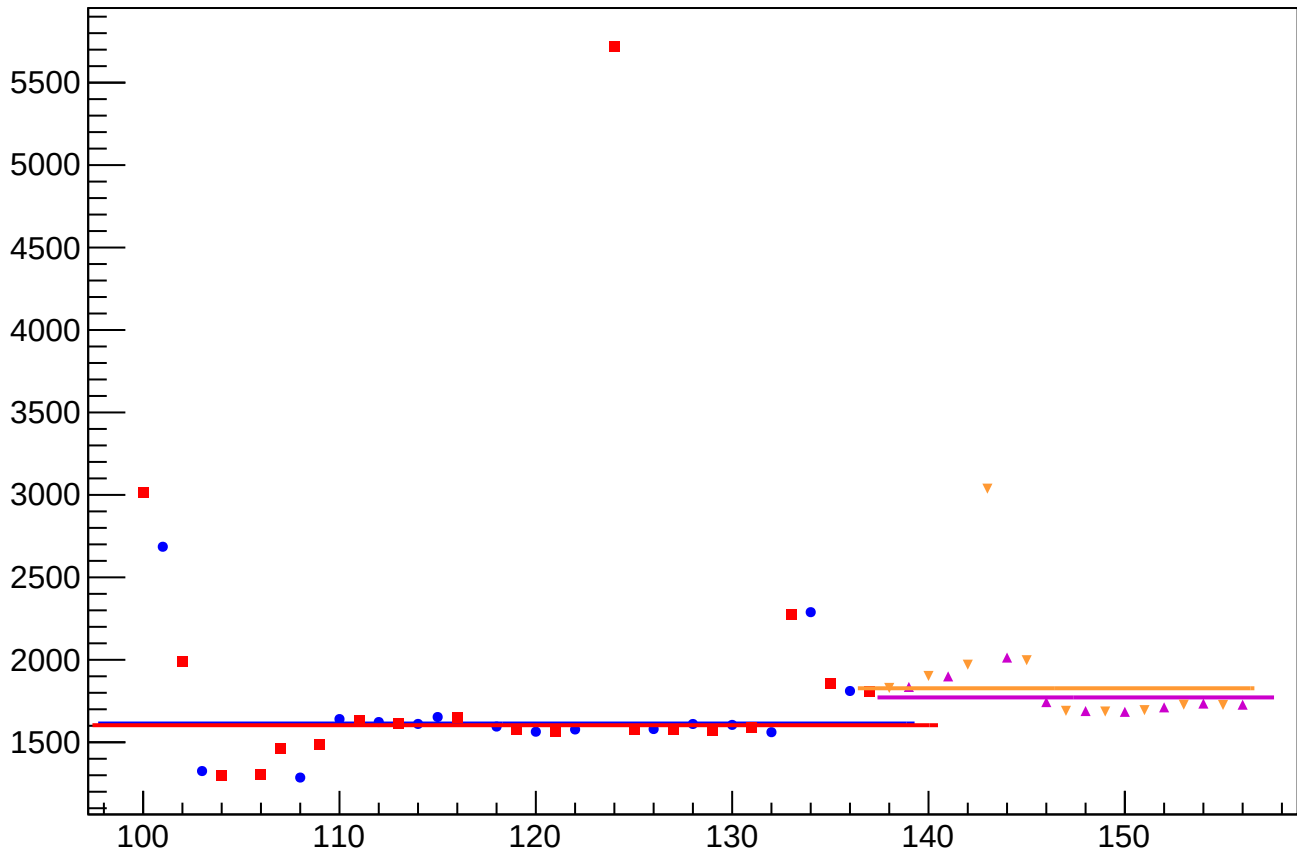
Right: 541.197 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 773.111 $\pm$ 439.194 χ^2 /NDF:21.1/24

Out: -160.328 $\pm$ 444.977 χ^2 /NDF:32.4/28

All: 312.496 $\pm$ 312.582 χ^2 /NDF: 55.8/53

cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674 $\pm$ 0.431 χ^2 /NDF: 404688.8/15

Left Out: 1827.422 $\pm$ 0.466 χ^2 /NDF: 322173.1/9

Right Out: 1603.464 $\pm$ 0.427 χ^2 /NDF: 425793.4/18

Left In: 1771.922 $\pm$ 0.448 χ^2 /NDF: 49284.4/8

Left: 1798.595 $\pm$ 0.323 χ^2 /NDF: 378828.3/18

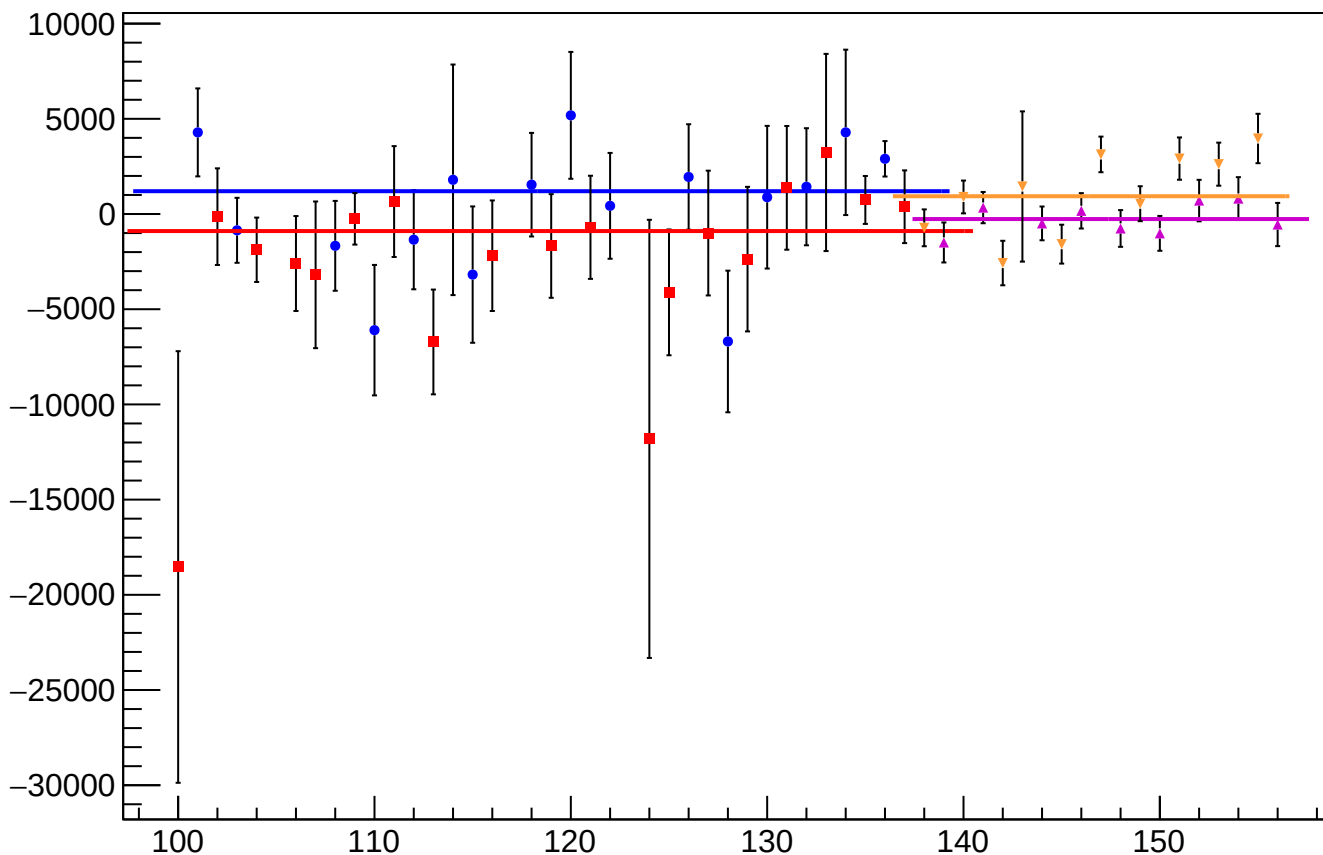
Right: 1608.520 $\pm$ 0.303 χ^2 /NDF: 830765.8/34

In: 1689.665 $\pm$ 0.311 χ^2 /NDF: 518784.6/24

Out: 1705.611 $\pm$ 0.315 χ^2 /NDF: 873647.0/28

All: 1697.533 $\pm$ 0.221 χ^2 /NDF: 1393732.6/53

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: 933.451 $\pm$ 339.216 χ^2 /NDF:34.6/9

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -264.103 $\pm$ 324.449 χ^2 /NDF:4.9/8

Left: 308.040 $\pm$ 234.467 χ^2 /NDF: 46.0/18

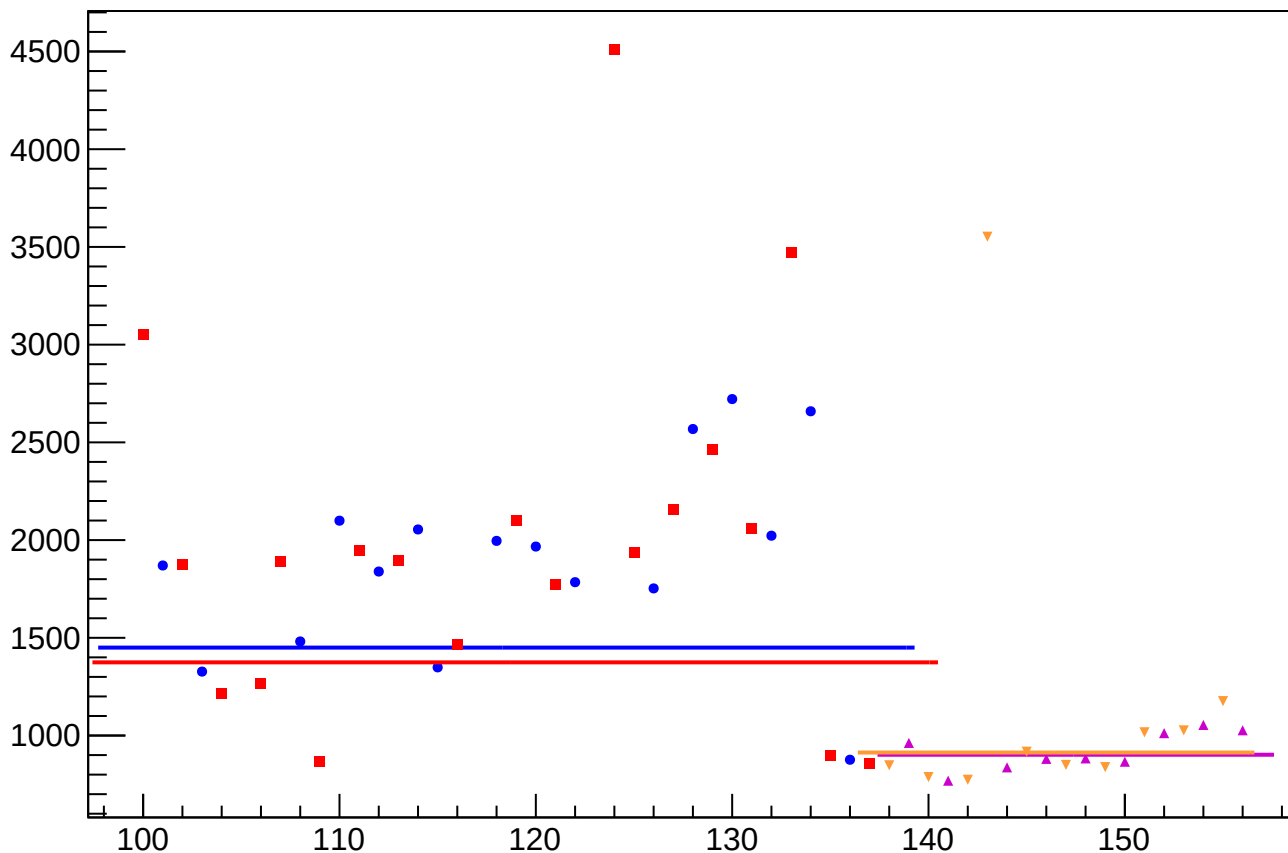
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 86.071 $\pm$ 282.951 χ^2 /NDF:31.4/24

Out: 438.214 $\pm$ 289.671 χ^2 /NDF:56.7/28

All: 258.011 $\pm$ 202.411 χ^2 /NDF: 88.9/53

asym_at2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939 $\pm$ 0.409 χ^2 /NDF: 1792673.2/15

Left Out: 913.079 $\pm$ 0.240 χ^2 /NDF: 1117235.4/9

Right Out: 1374.438 $\pm$ 0.394 χ^2 /NDF: 2127695.6/18

Left In: 901.673 $\pm$ 0.229 χ^2 /NDF: 156024.4/8

Left: 907.122 $\pm$ 0.166 χ^2 /NDF: 1274440.8/18

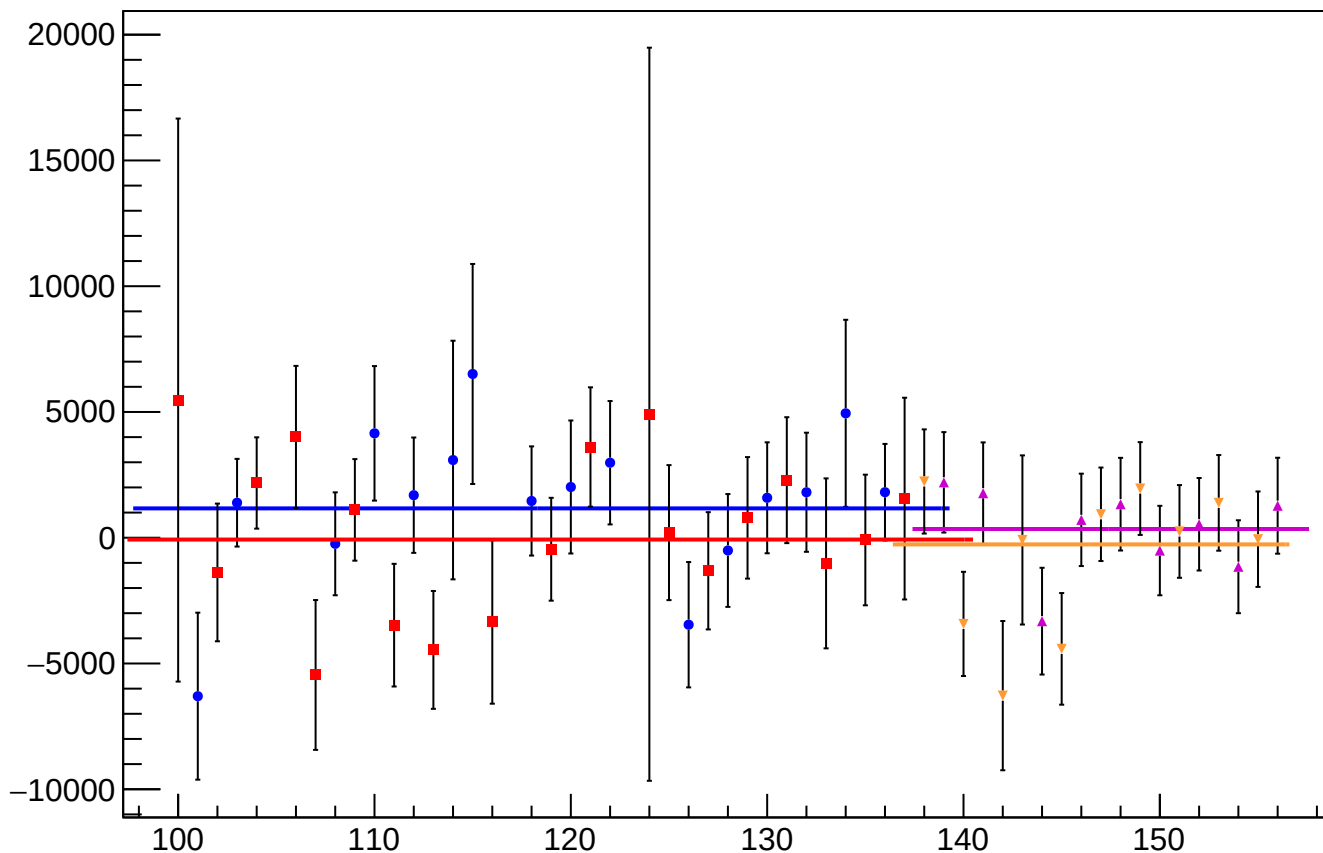
Right: 1410.753 $\pm$ 0.284 χ^2 /NDF: 3938065.4/34

In: 1032.953 $\pm$ 0.200 χ^2 /NDF: 3316191.8/24

Out: 1038.007 $\pm$ 0.205 χ^2 /NDF: 4246715.4/28

All: 1035.420 $\pm$ 0.143 χ^2 /NDF: 7563218.8/53

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: -265.064 $\pm$ 658.882 χ^2 /NDF:14.1/9

Right Out: -72.499 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 346.992 $\pm$ 633.789 χ^2 /NDF:5.8/8

Left: 52.841 $\pm$ 456.770 χ^2 /NDF: 20.4/18

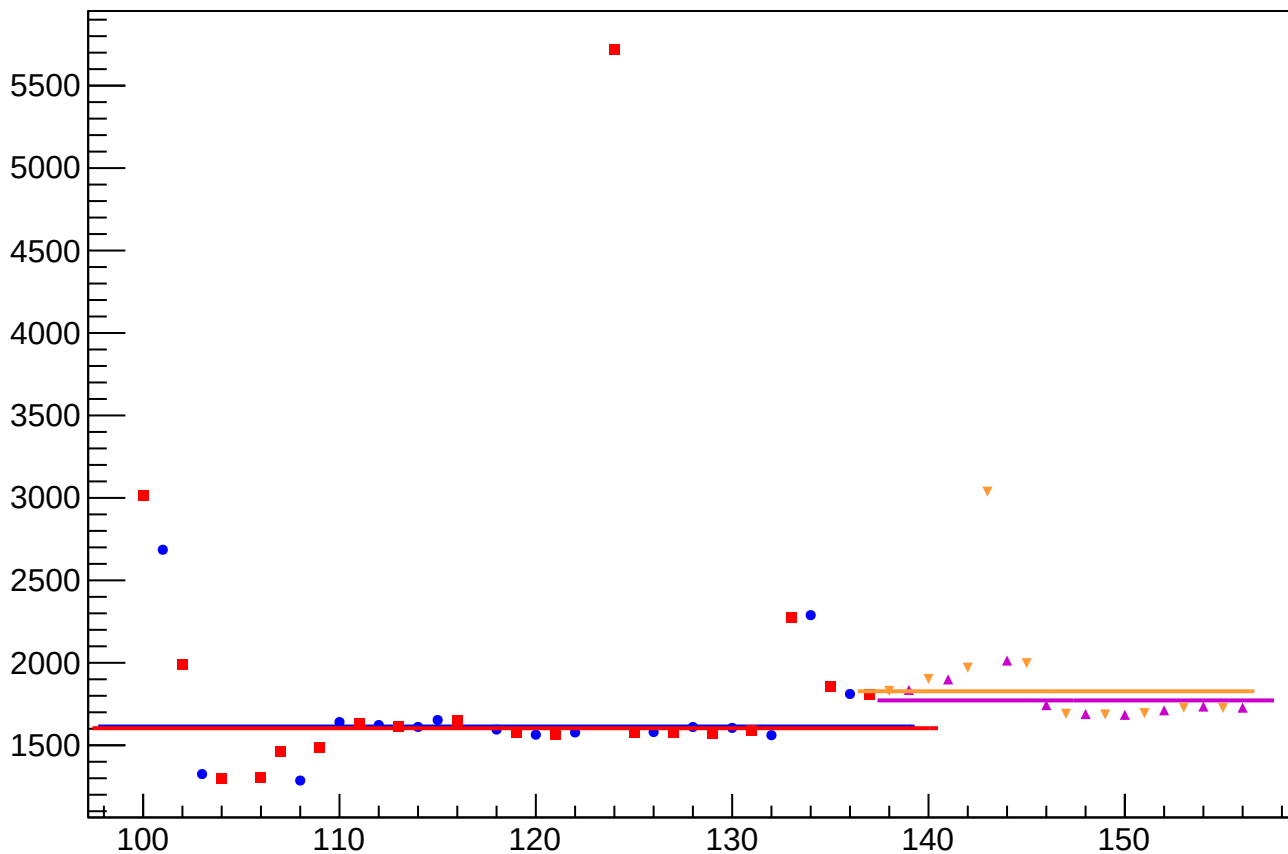
Right: 541.197 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 773.111 $\pm$ 439.194 χ^2 /NDF:21.1/24

Out: -160.328 $\pm$ 444.977 χ^2 /NDF:32.4/28

All: 312.496 $\pm$ 312.582 χ^2 /NDF: 55.8/53

eigen_cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674+/-0.431 χ^2/NDF : 404688.8/15

Left Out: 1827.422+/-0.466 χ^2/NDF : 322173.1/9

Right Out: 1603.464+/-0.427 χ^2/NDF : 425793.4/18

Left In: 1771.922+/-0.448 χ^2/NDF : 49284.4/8

Left: 1798.595+/-0.323 χ^2/NDF : 378828.3/18

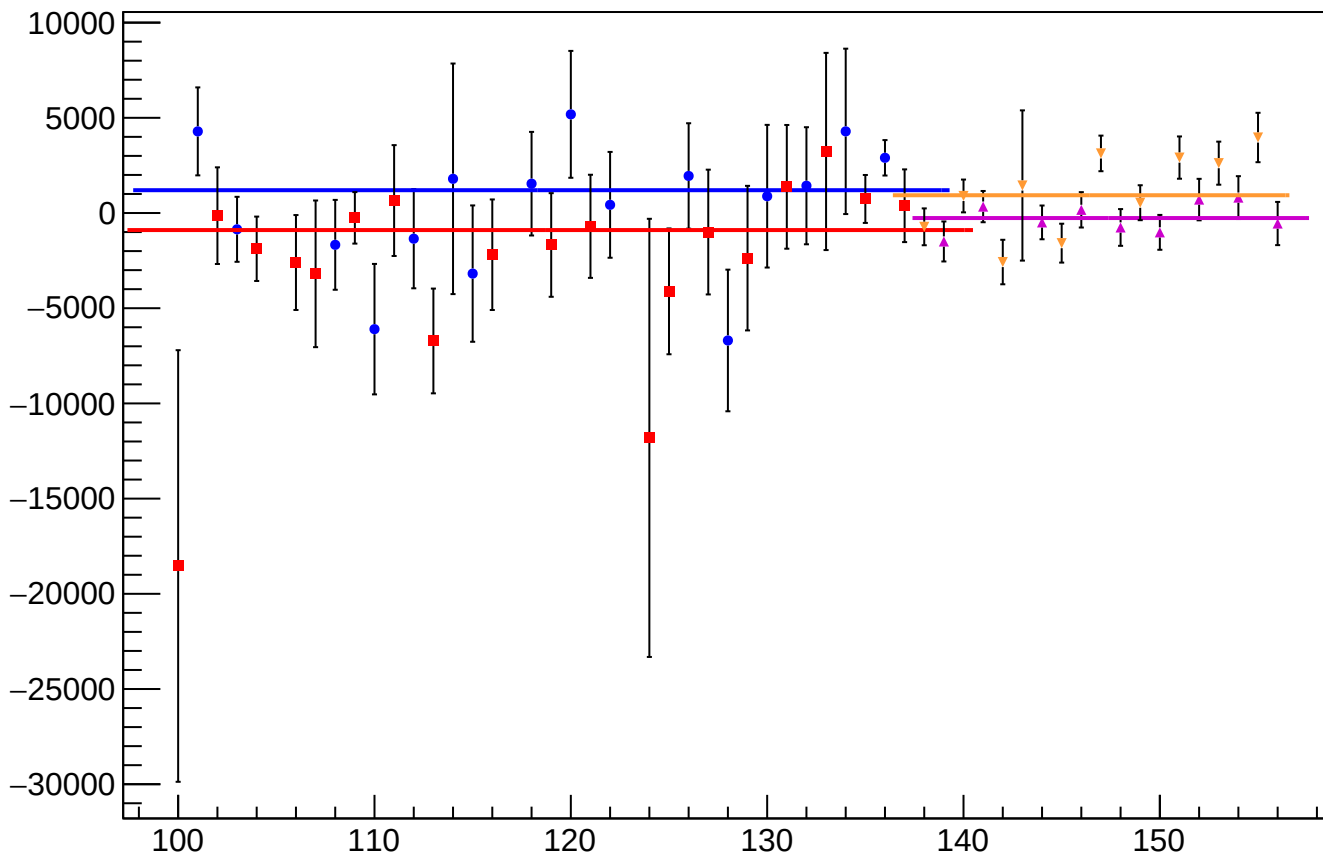
Right: 1608.520+/-0.303 χ^2/NDF : 830765.8/34

In: 1689.665+/-0.311 χ^2/NDF : 518784.6/24

Out: 1705.611+/-0.315 χ^2/NDF : 873647.0/28

All: 1697.533+/-0.221 χ^2/NDF : 1393732.6/53

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: 933.451 $\pm$ 339.216 χ^2 /NDF:34.6/9

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -264.103 $\pm$ 324.449 χ^2 /NDF:4.9/8

Left: 308.040 $\pm$ 234.467 χ^2 /NDF: 46.0/18

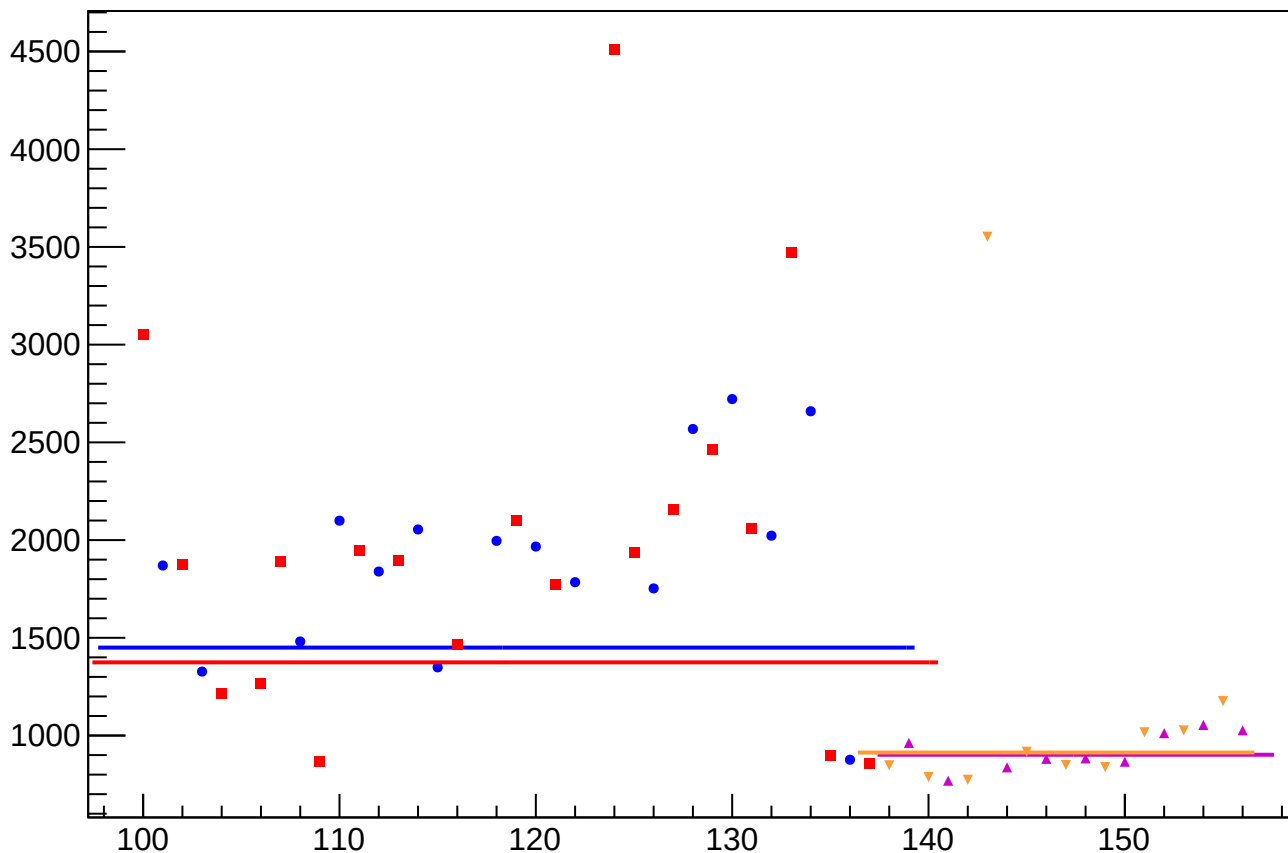
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 86.071 $\pm$ 282.951 χ^2 /NDF:31.4/24

Out: 438.214 $\pm$ 289.671 χ^2 /NDF:56.7/28

All: 258.011 $\pm$ 202.411 χ^2 /NDF: 88.9/53

asym_at2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939 $\pm$ 0.409 χ^2/NDF : 1792673.2/15

Left Out: 913.079 $\pm$ 0.240 χ^2/NDF : 1117235.4/9

Right Out: 1374.438 $\pm$ 0.394 χ^2/NDF : 2127695.6/18

Left In: 901.673 $\pm$ 0.229 χ^2/NDF : 156024.4/8

Left: 907.122 $\pm$ 0.166 χ^2/NDF : 1274440.8/18

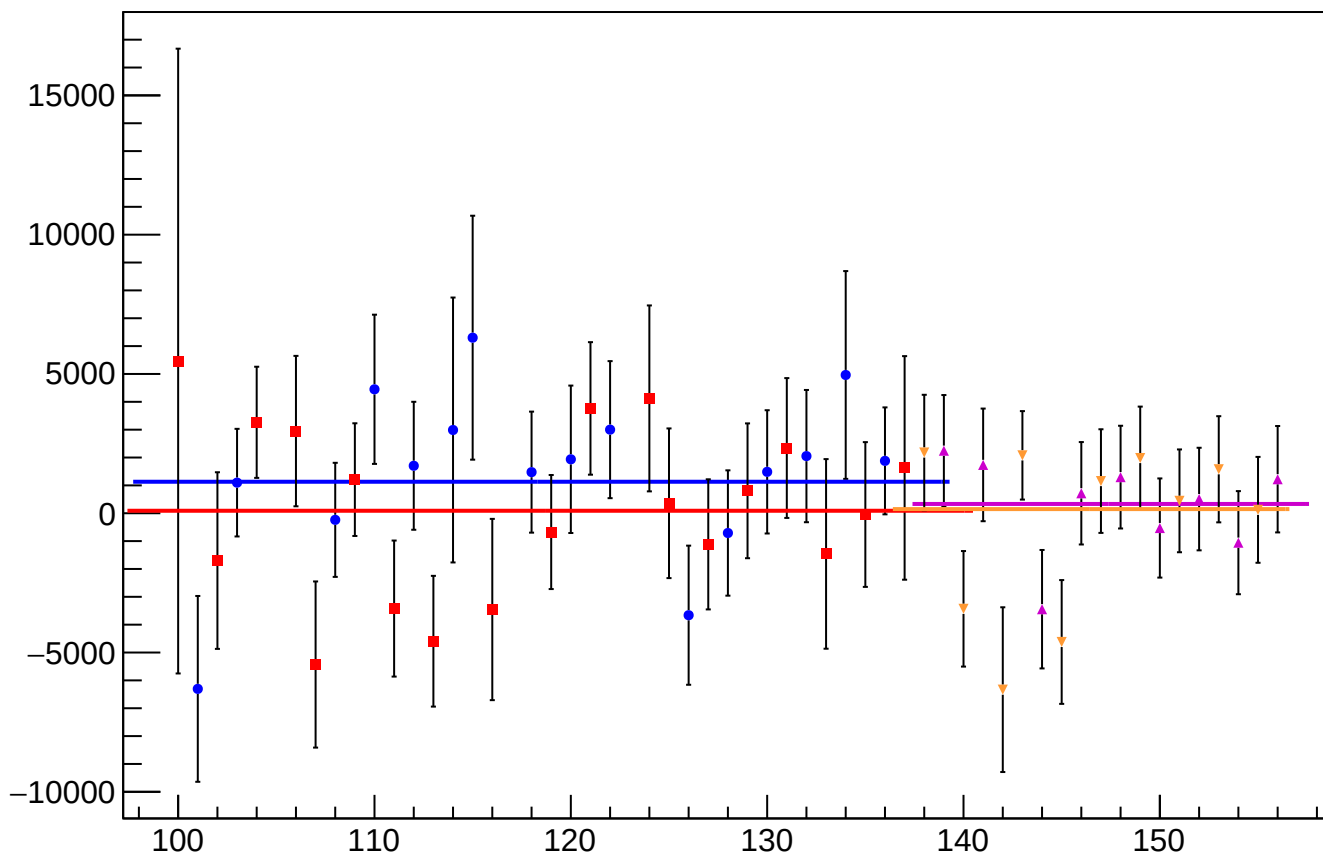
Right: 1410.753 $\pm$ 0.284 χ^2/NDF : 3938065.4/34

In: 1032.953 $\pm$ 0.200 χ^2/NDF : 3316191.8/24

Out: 1038.007 $\pm$ 0.205 χ^2/NDF : 4246715.4/28

All: 1035.420 $\pm$ 0.143 χ^2/NDF : 7563218.8/53

dit_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1130.726 $\pm$ 617.236 χ^2 /NDF: 15.0/15

Left Out: 148.923 $\pm$ 619.313 χ^2 /NDF:16.7/9

Right Out: 89.220 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 333.470 $\pm$ 634.591 χ^2 /NDF:5.9/8

Left: 238.948 $\pm$ 443.223 χ^2 /NDF: 22.6/18

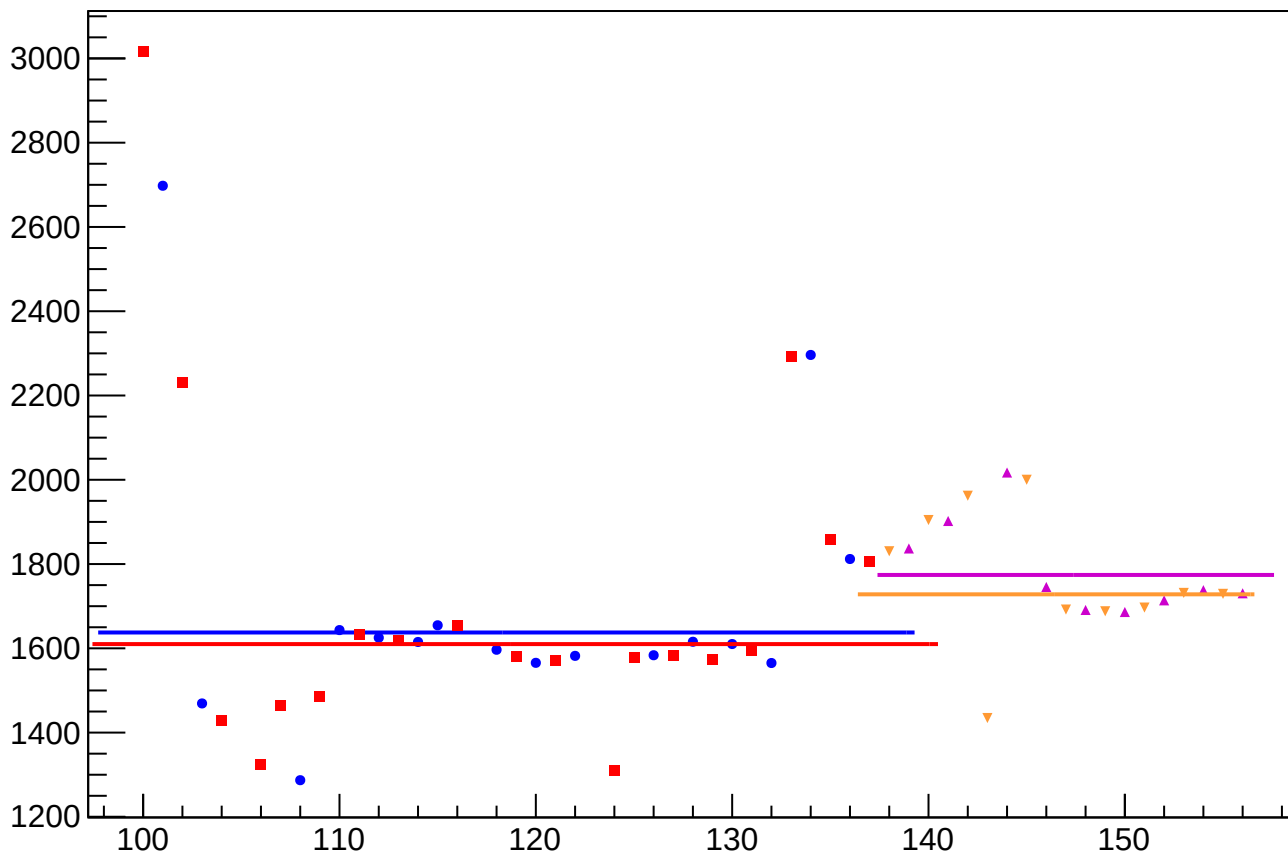
Right: 597.886 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 743.149 $\pm$ 442.460 χ^2 /NDF:21.7/24

Out: 118.278 $\pm$ 432.064 χ^2 /NDF:37.4/28

All: 423.286 $\pm$ 309.125 χ^2 /NDF: 60.1/53

dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574 ± 0.436 $\chi^2/\text{NDF}: 361417.0/15$

Left Out: 1728.143 ± 0.438 $\chi^2/\text{NDF}: 132442.6/9$

Right Out: 1610.043 ± 0.426 $\chi^2/\text{NDF}: 280812.5/18$

Left In: 1774.141 ± 0.449 $\chi^2/\text{NDF}: 49511.3/8$

Left: 1750.581 ± 0.313 $\chi^2/\text{NDF}: 187335.9/18$

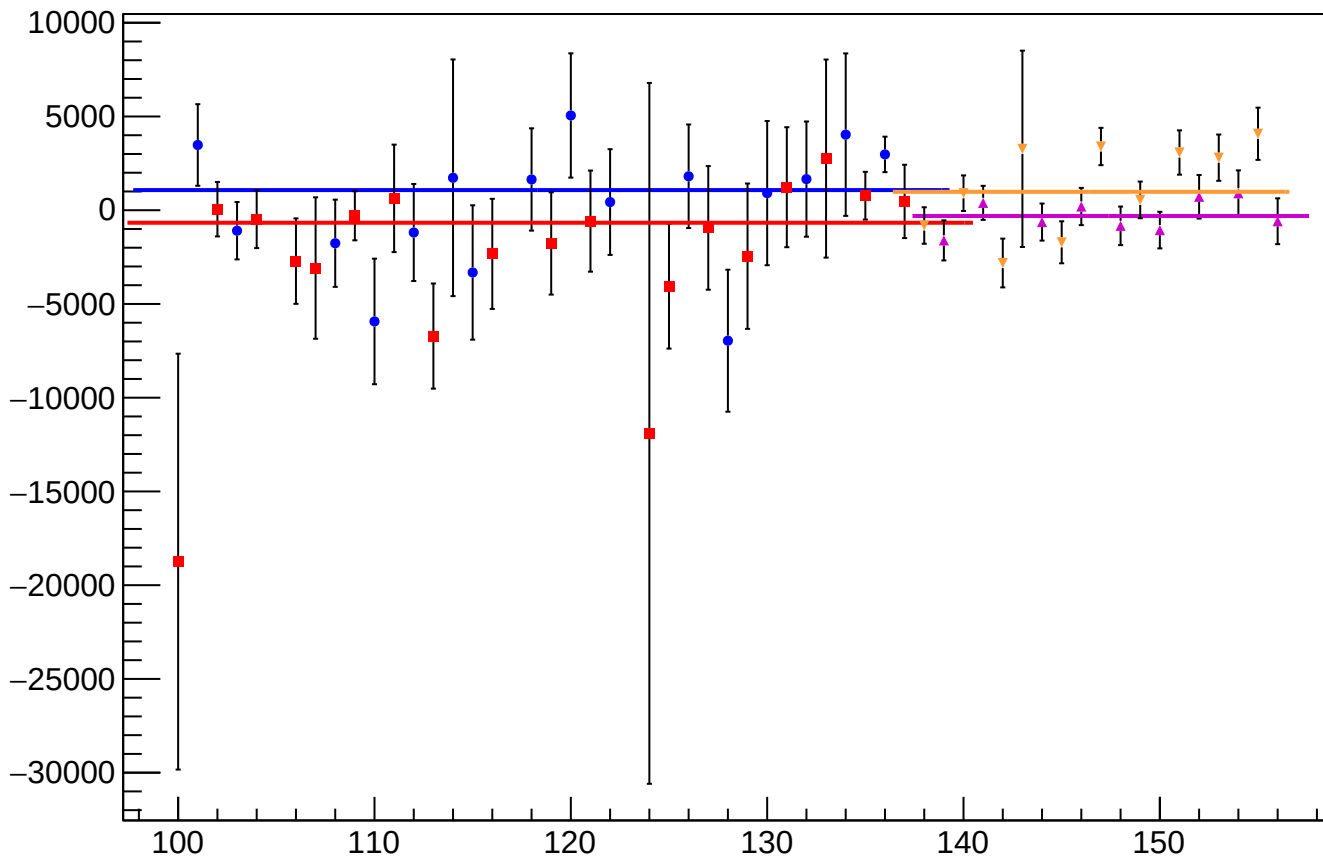
Right: 1623.489 ± 0.305 $\chi^2/\text{NDF}: 644265.1/34$

In: 1703.964 ± 0.313 $\chi^2/\text{NDF}: 458525.2/24$

Out: 1667.524 ± 0.306 $\chi^2/\text{NDF}: 450585.5/28$

All: 1685.311 ± 0.219 $\chi^2/\text{NDF}: 916054.9/53$

asym_at2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.600 $\pm$ 571.609 χ^2/NDF : 22.0/15

Left Out: 982.219 $\pm$ 364.220 χ^2/NDF : 34.3/9

Right Out: -667.777 $\pm$ 523.477 χ^2/NDF : 13.6/18

Left In: -308.815 $\pm$ 349.185 χ^2/NDF : 5.1/8

Left: 309.505 $\pm$ 252.059 χ^2/NDF : 45.9/18

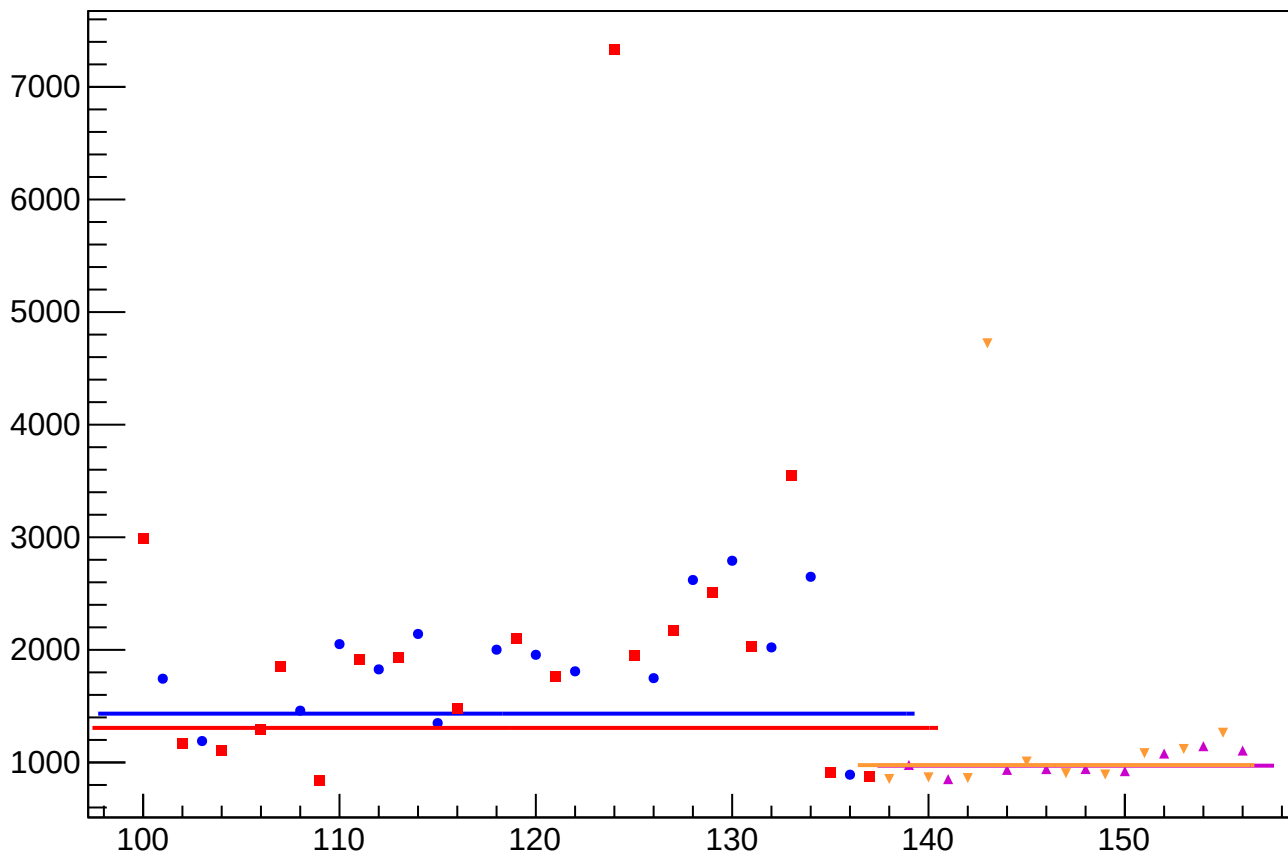
Right: 126.521 $\pm$ 386.051 χ^2/NDF : 40.6/34

In: 66.871 $\pm$ 297.984 χ^2/NDF : 31.4/24

Out: 444.008 $\pm$ 298.973 χ^2/NDF : 54.5/28

All: 254.814 $\pm$ 211.055 χ^2/NDF : 86.7/53

asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1433.477+/-0.404 χ^2/NDF : 1763491.8/15

Left Out: 976.344+/-0.258 χ^2/NDF :1252883.4/9

Right Out: 1306.866+/-0.370 χ^2/NDF : 2183906.3/18

Left In: 971.376+/-0.247 χ^2/NDF :127468.2/8

Left: 973.755+/-0.178 χ^2/NDF : 1380545.6/18

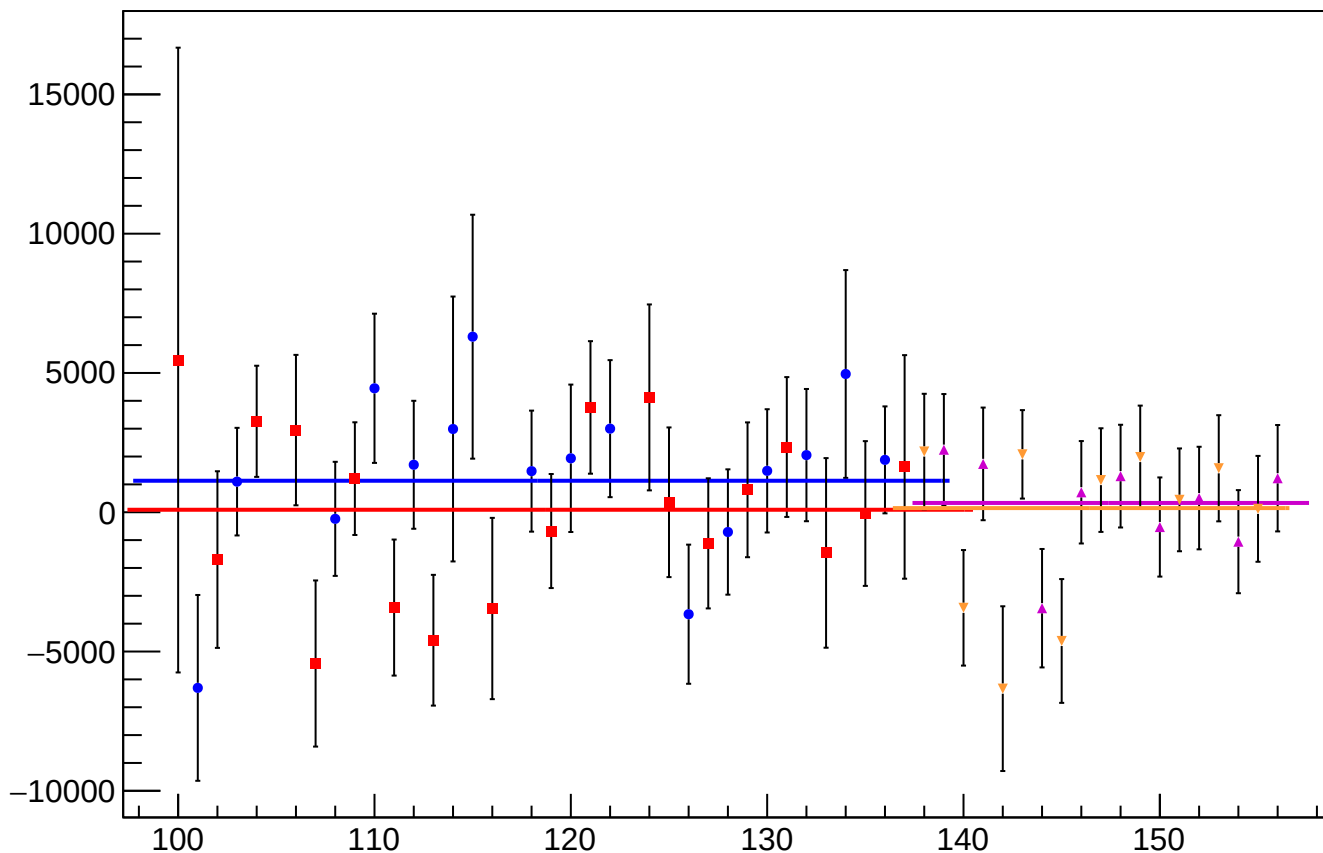
Right: 1364.618+/-0.273 χ^2/NDF : 4000764.0/34

In: 1096.957+/-0.211 χ^2/NDF :2842836.0/24

Out: 1084.157+/-0.211 χ^2/NDF :3974036.0/28

All: 1090.578+/-0.149 χ^2/NDF : 6818710.9/53

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: 148.911 $\pm$ 619.313 χ^2 /NDF:16.7/9

Right Out: 89.225 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 333.464 $\pm$ 634.591 χ^2 /NDF:5.9/8

Left: 238.940 $\pm$ 443.223 χ^2 /NDF: 22.6/18

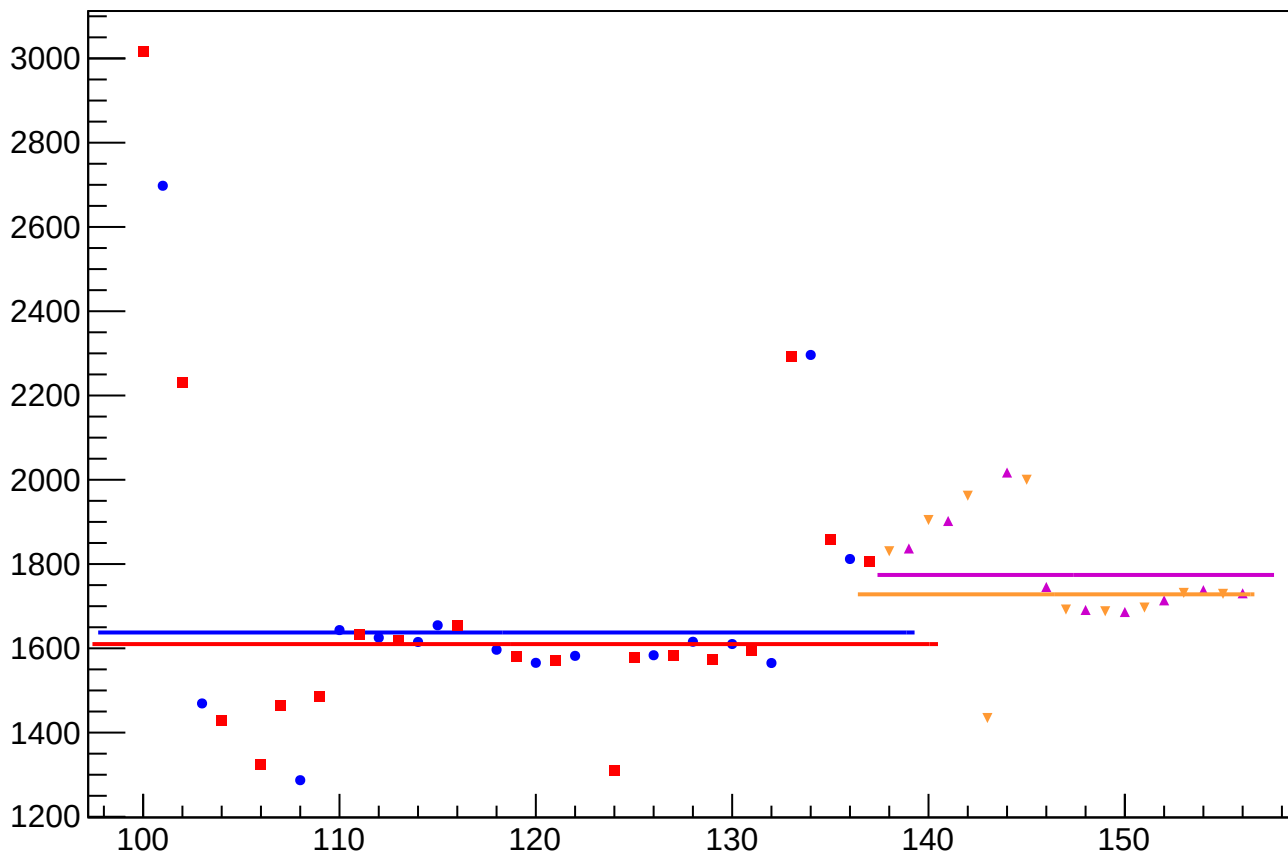
Right: 597.890 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 743.147 $\pm$ 442.460 χ^2 /NDF:21.7/24

Out: 118.276 $\pm$ 432.064 χ^2 /NDF:37.4/28

All: 423.284 $\pm$ 309.125 χ^2 /NDF: 60.1/53

eigen_dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574+/-0.436 χ^2/NDF : 361416.8/15

Left Out: 1728.143+/-0.438 χ^2/NDF : 132441.5/9

Right Out: 1610.043+/-0.426 χ^2/NDF : 280812.7/18

Left In: 1774.141+/-0.449 χ^2/NDF : 49511.4/8

Left: 1750.581+/-0.313 χ^2/NDF : 187334.8/18

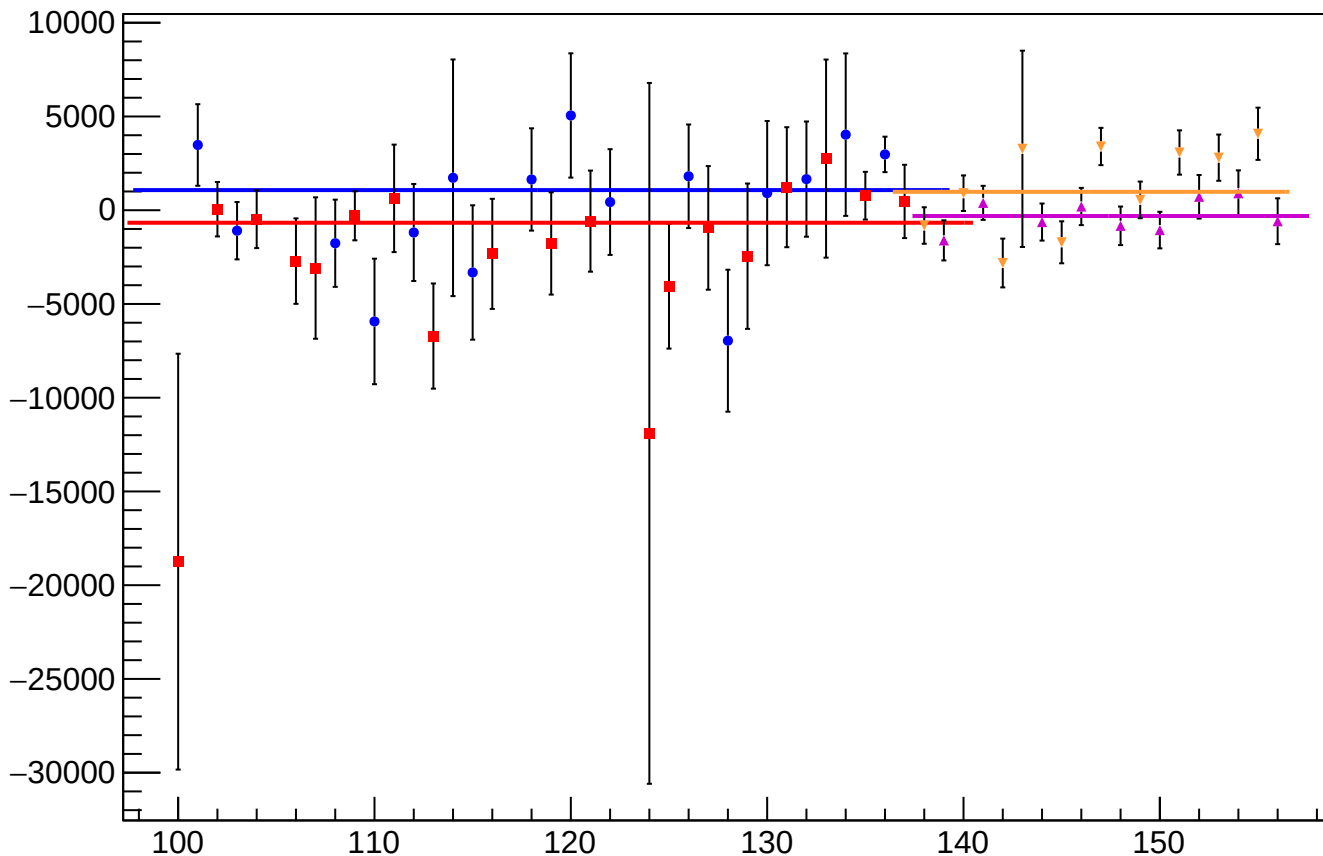
Right: 1623.489+/-0.305 χ^2/NDF : 644265.1/34

In: 1703.964+/-0.313 χ^2/NDF : 458525.2/24

Out: 1667.524+/-0.306 χ^2/NDF : 450585.0/28

All: 1685.311+/-0.219 χ^2/NDF : 916054.3/53

asym_at2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.589 $\pm$ 571.613 χ^2 /NDF: 22.0/15

Left Out: 982.234 $\pm$ 364.222 χ^2 /NDF:34.3/9

Right Out: -667.789 $\pm$ 523.481 χ^2 /NDF: 13.6/18

Left In: -308.817 $\pm$ 349.185 χ^2 /NDF:5.1/8

Left: 309.510 $\pm$ 252.059 χ^2 /NDF: 45.9/18

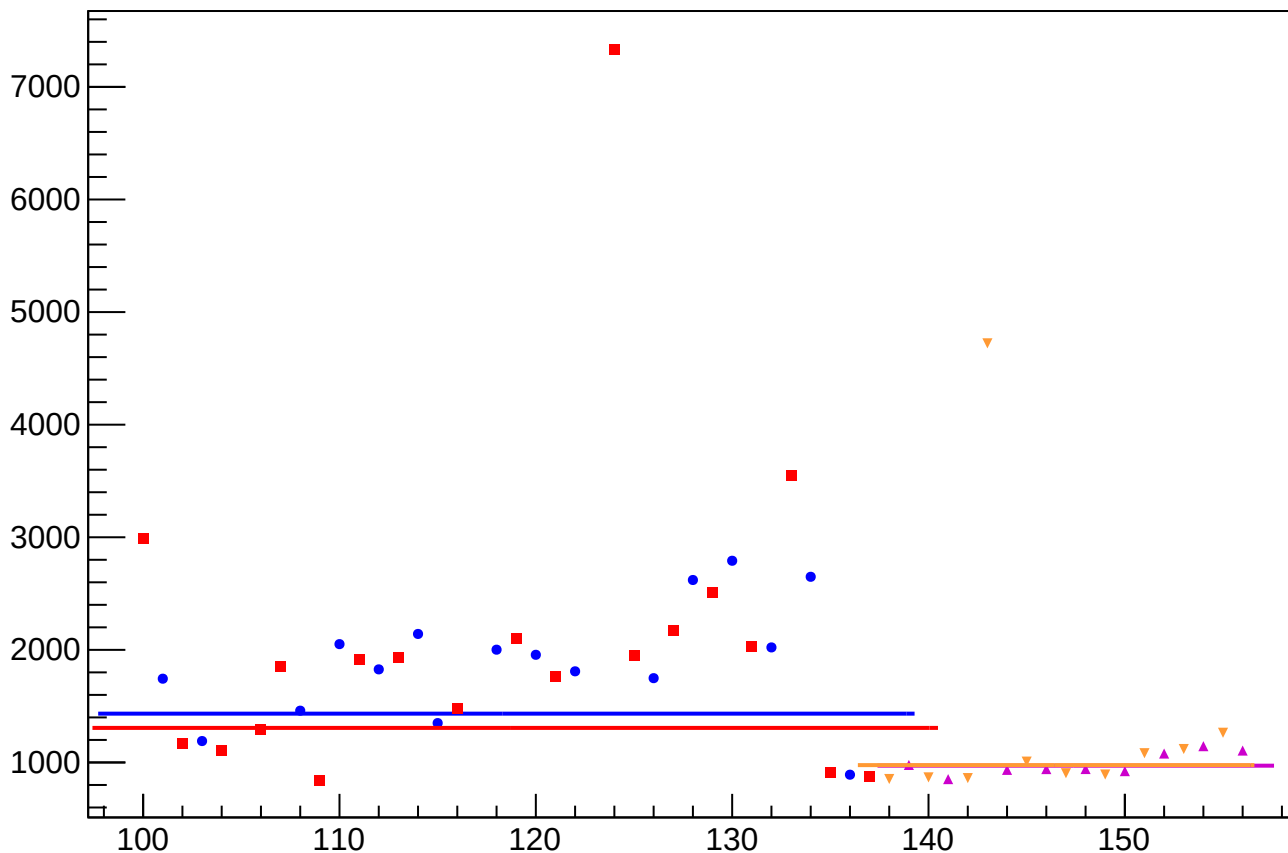
Right: 126.509 $\pm$ 386.053 χ^2 /NDF: 40.6/34

In: 66.864 $\pm$ 297.984 χ^2 /NDF:31.4/24

Out: 444.016 $\pm$ 298.975 χ^2 /NDF:54.5/28

All: 254.814 $\pm$ 211.056 χ^2 /NDF: 86.7/53

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: 976.350+/-0.258 χ^2/NDF :1252863.6/9

Right Out: 1306.880+/-0.370 χ^2/NDF : 2183835.0/18

Left In: 971.377+/-0.247 χ^2/NDF :127467.8/8

Left: 973.758+/-0.178 χ^2/NDF : 1380525.7/18

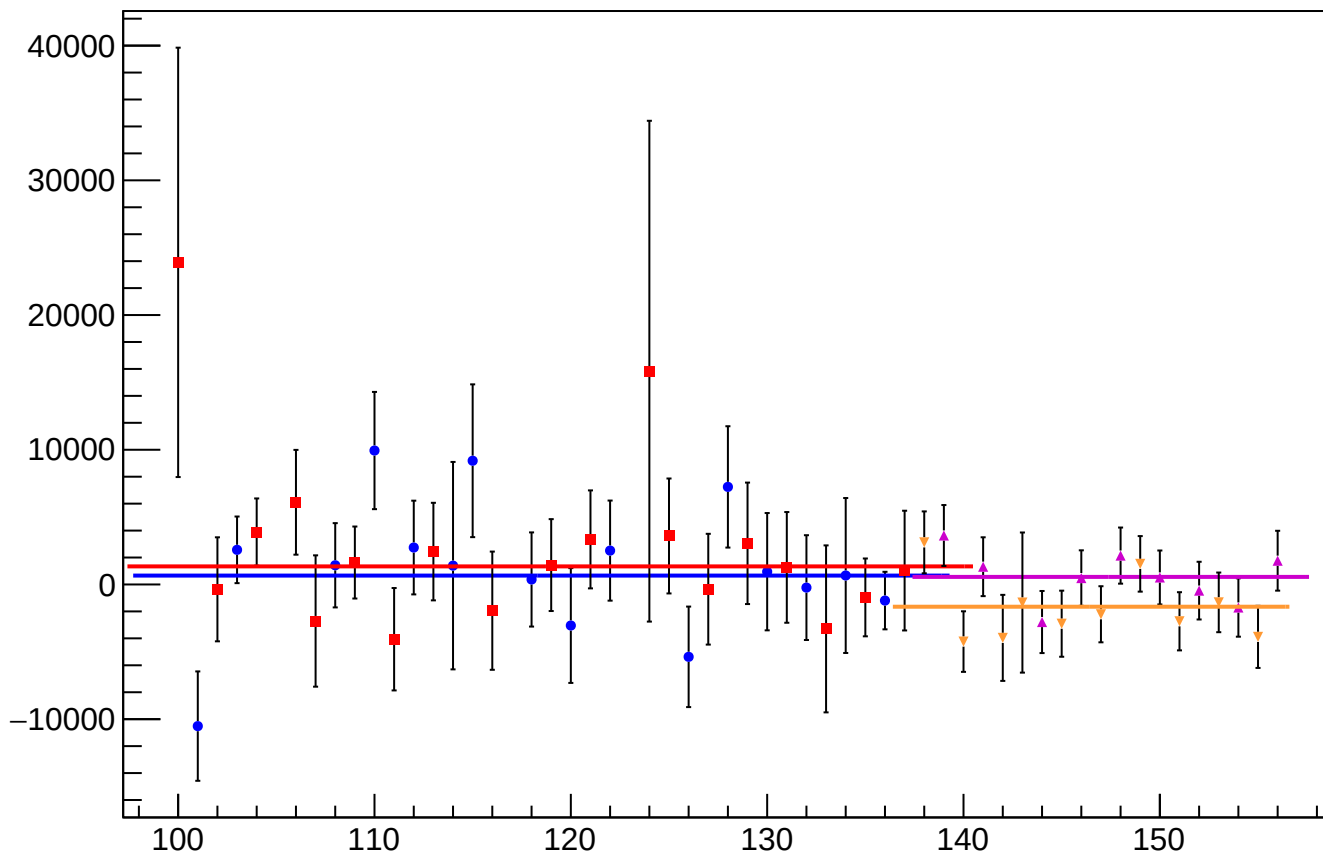
Right: 1364.632+/-0.273 χ^2/NDF : 4000599.5/34

In: 1096.961+/-0.211 χ^2/NDF :2842790.4/24

Out: 1084.165+/-0.211 χ^2/NDF :3973963.9/28

All: 1090.584+/-0.149 χ^2/NDF : 6818592.1/53

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 659.458+/-909.570 χ^2/NDF : 22.0/15

Left Out: -1652.039+/-753.542 χ^2/NDF :10.1/9

Right Out: 1341.998+/-890.576 χ^2/NDF : 10.8/18

Left In: 561.805+/-717.479 χ^2/NDF :6.3/8

Left: -490.875+/-519.616 χ^2/NDF : 20.9/18

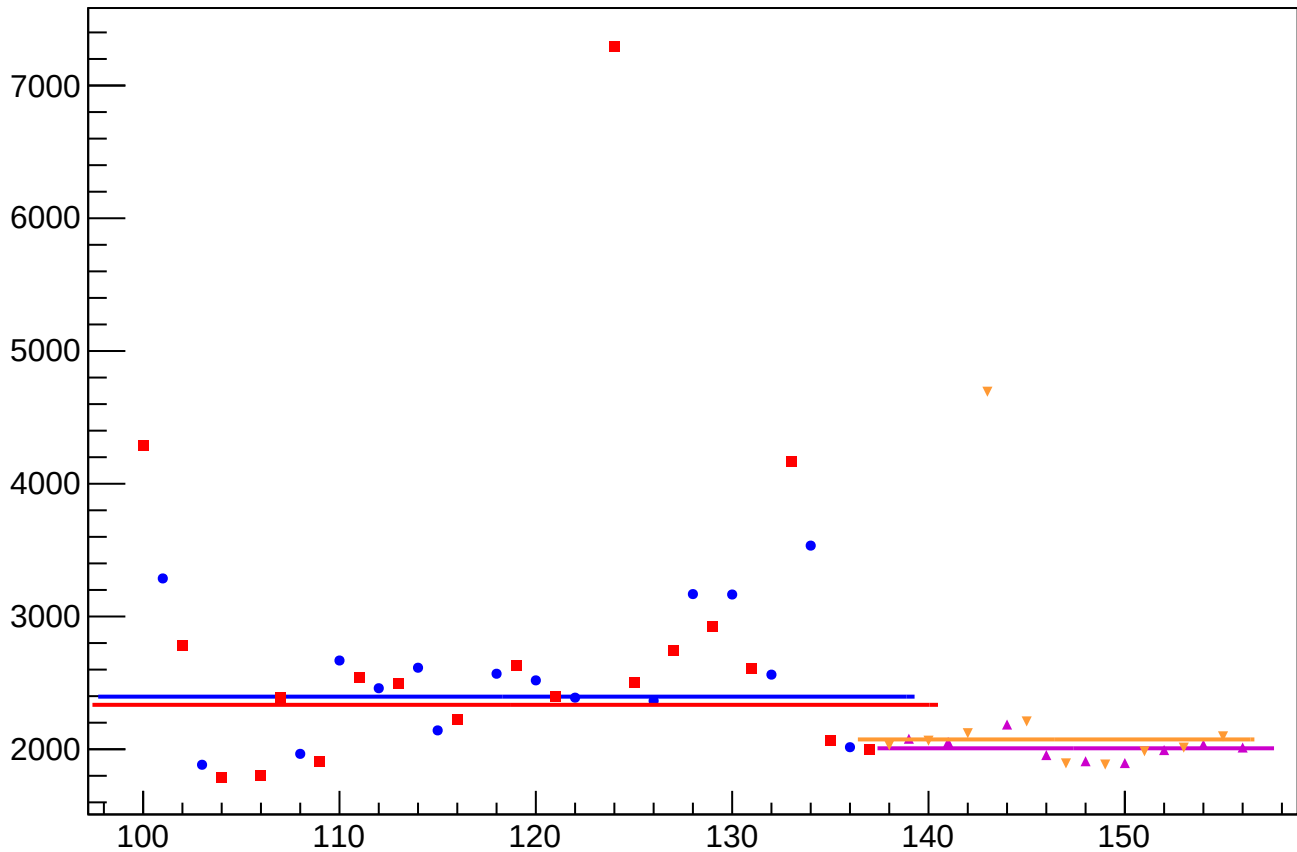
Right: 1007.929+/-636.341 χ^2/NDF : 33.1/34

In: 599.261+/-563.318 χ^2/NDF :28.3/24

Out: -402.845+/-575.251 χ^2/NDF :27.5/28

All: 108.709+/-402.479 χ^2/NDF : 57.3/53

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2396.276 $\pm$ 0.643 χ^2 /NDF: 507897.2/15

Left Out: 2073.982 $\pm$ 0.533 χ^2 /NDF: 551606.6/9

Right Out: 2334.592 $\pm$ 0.630 χ^2 /NDF: 681568.6/18

Left In: 2007.113 $\pm$ 0.507 χ^2 /NDF: 27224.4/8

Left: 2038.909 $\pm$ 0.367 χ^2 /NDF: 587091.7/18

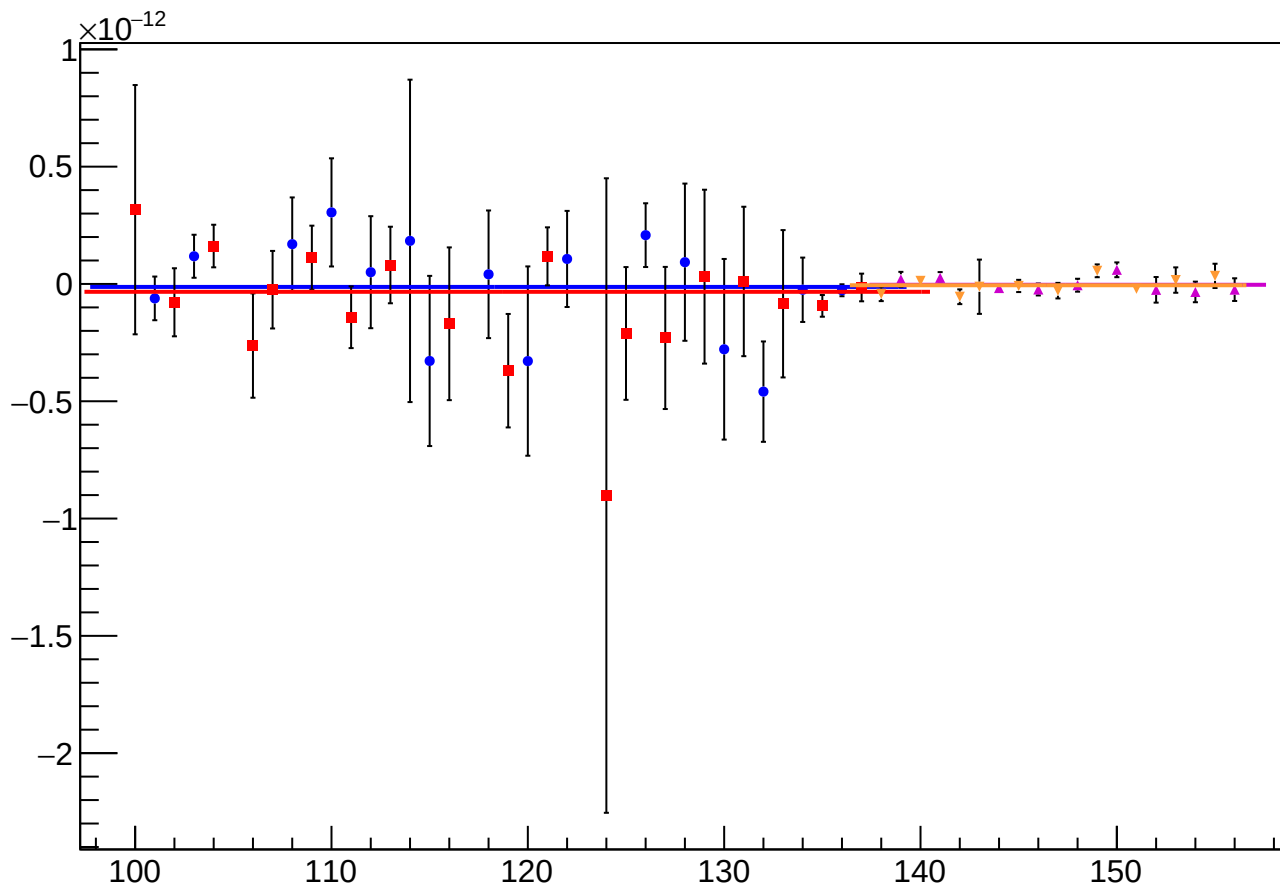
Right: 2364.783 $\pm$ 0.450 χ^2 /NDF: 1194162.0/34

In: 2156.381 $\pm$ 0.398 χ^2 /NDF: 760810.8/24

Out: 2182.717 $\pm$ 0.407 χ^2 /NDF: 1332985.2/28

All: 2169.273 $\pm$ 0.285 χ^2 /NDF: 2095935.8/53

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 : 11.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.6/8

Left: -0.000+/-0.000 χ^2/NDF : 20.4/18

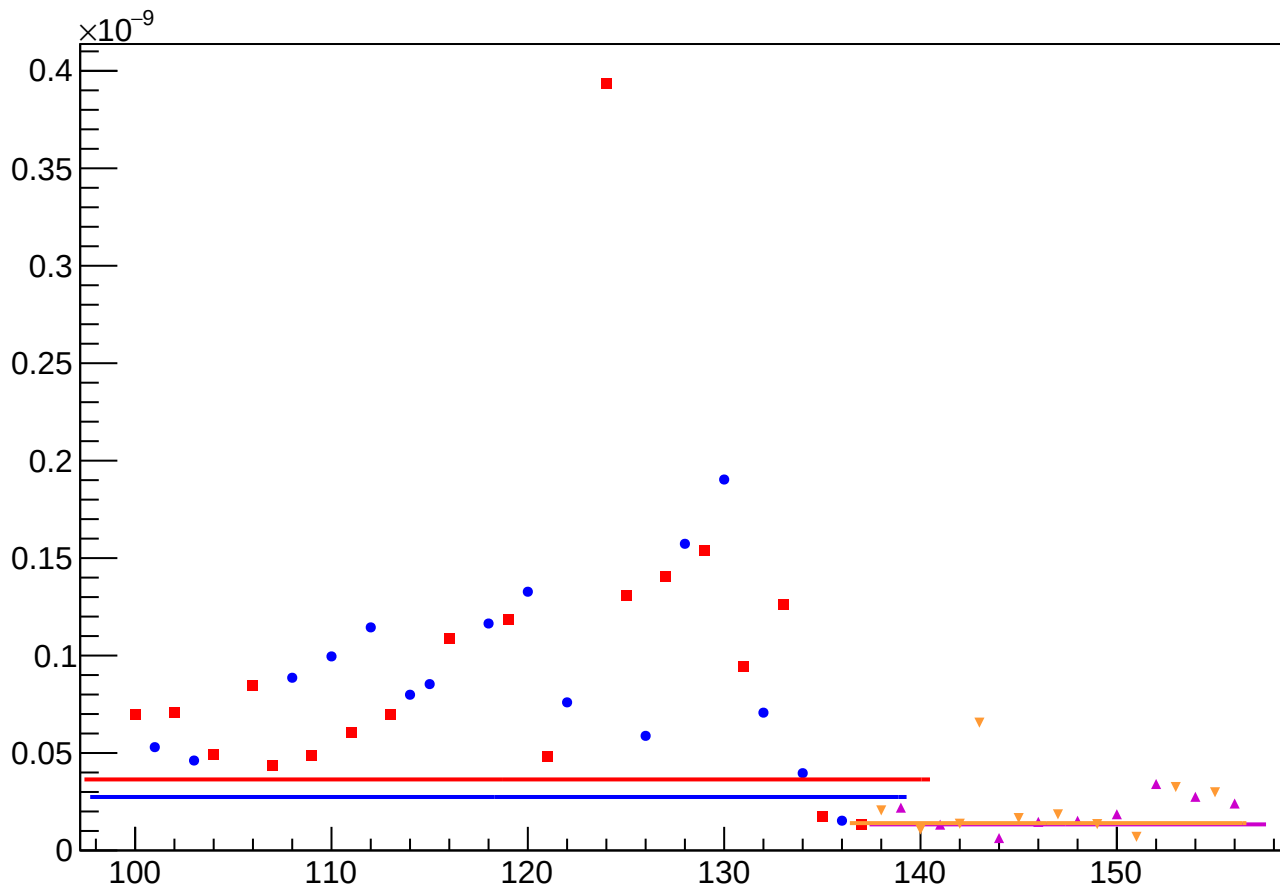
Right: -0.000+/-0.000 χ^2/NDF : 30.4/34

In: -0.000+/-0.000 χ^2/NDF : 23.5/24

Out: -0.000+/-0.000 χ^2/NDF : 27.9/28

All: -0.000+/-0.000 χ^2/NDF : 51.5/53

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 : 1313897.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2442395.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1325034.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2644271.1/18

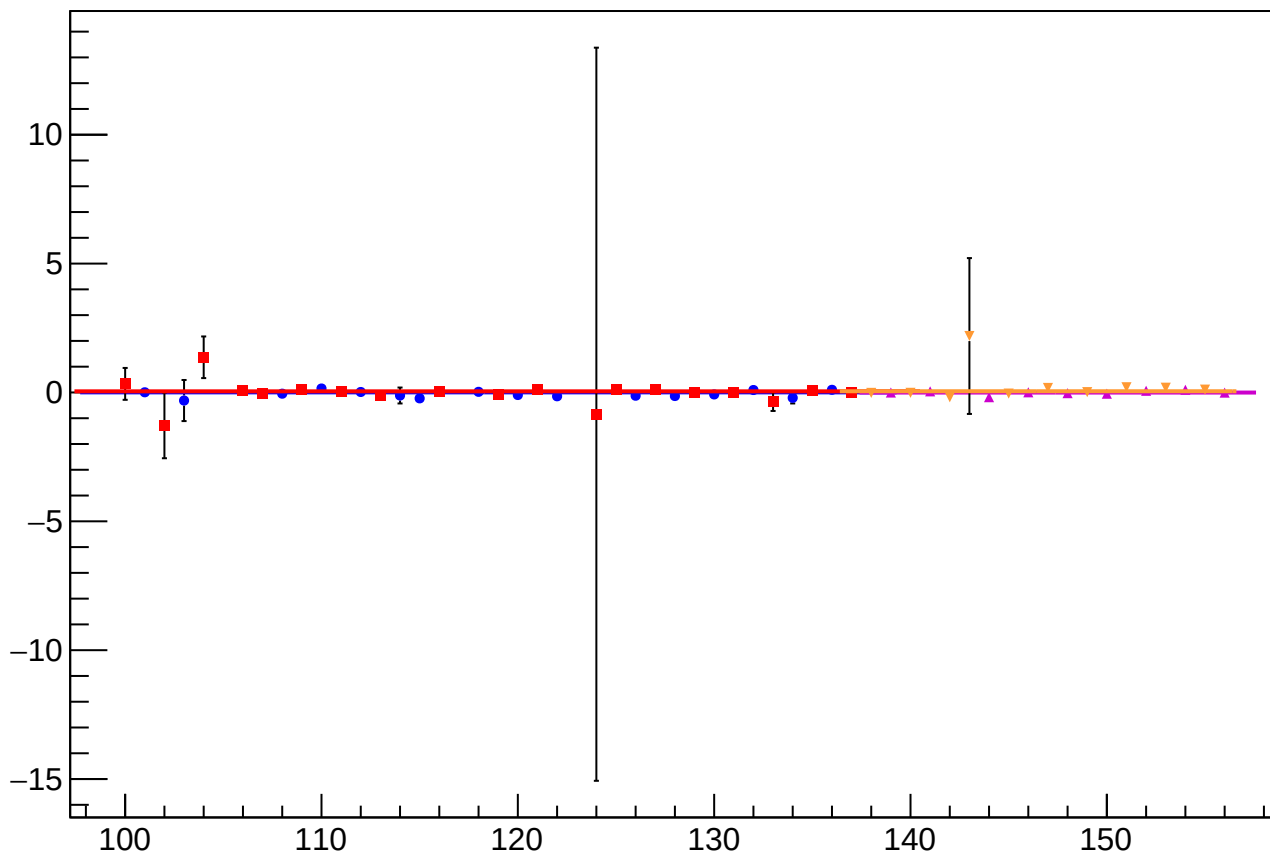
Right: 0.000+/-0.000 χ^2/NDF : 5297550.6/34

In: 0.000+/-0.000 χ^2/NDF : 4747898.7/24

Out: 0.000+/-0.000 χ^2/NDF : 4917517.4/28

All: 0.000+/-0.000 χ^2/NDF : 9676240.4/53

asym_at2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.047 $\pm$ 0.025 χ^2 /NDF:16.6/9

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.004 $\pm$ 0.025 χ^2 /NDF:5.3/8

Left: 0.021 $\pm$ 0.017 χ^2 /NDF: 24.0/18

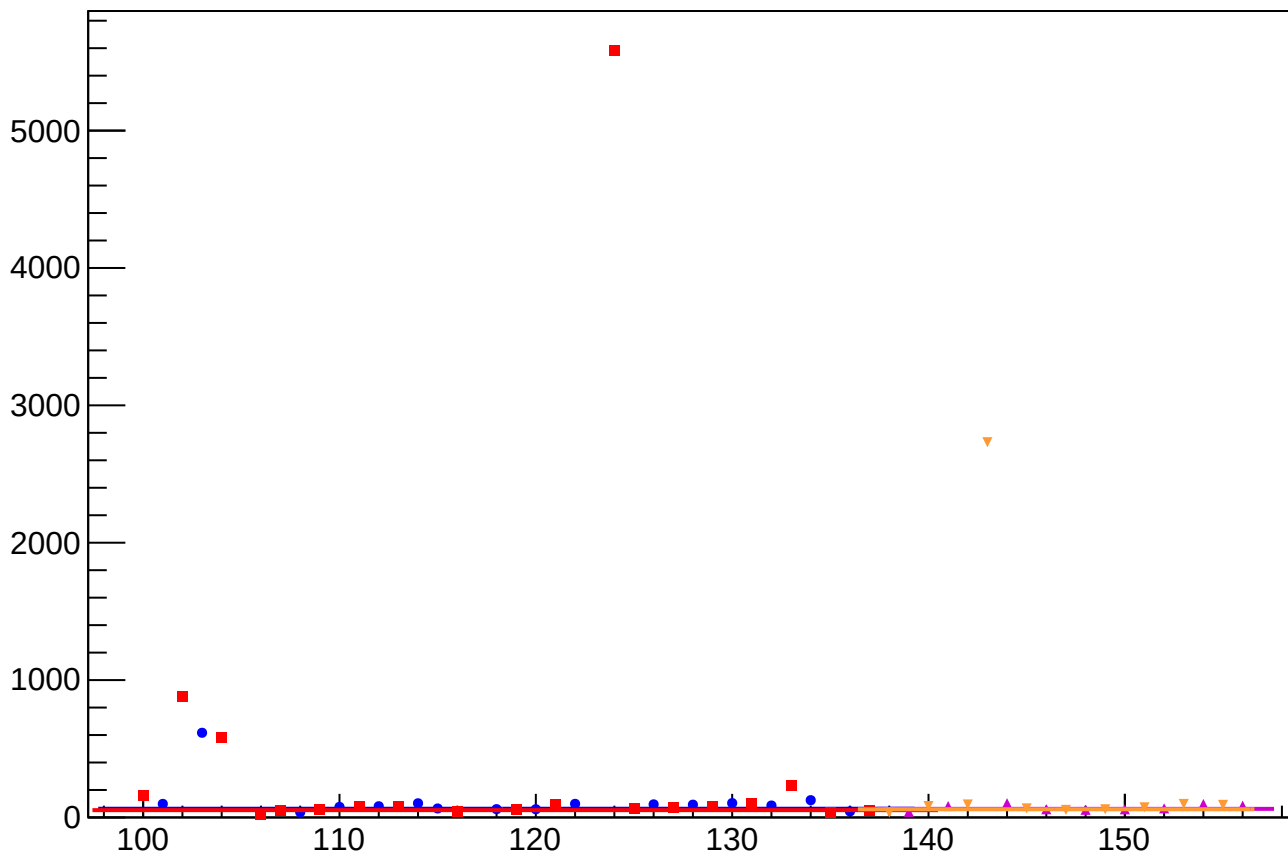
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.001 $\pm$ 0.018 χ^2 /NDF:18.6/24

Out: 0.045 $\pm$ 0.018 χ^2 /NDF:29.2/28

All: 0.023 $\pm$ 0.013 χ^2 /NDF: 51.2/53

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: 59.544+/-0.018 χ^2/NDF : 2943044.4/9

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 62.617+/-0.017 χ^2/NDF : 1135621.2/8

Left: 61.101+/-0.012 χ^2/NDF : 4094101.6/18

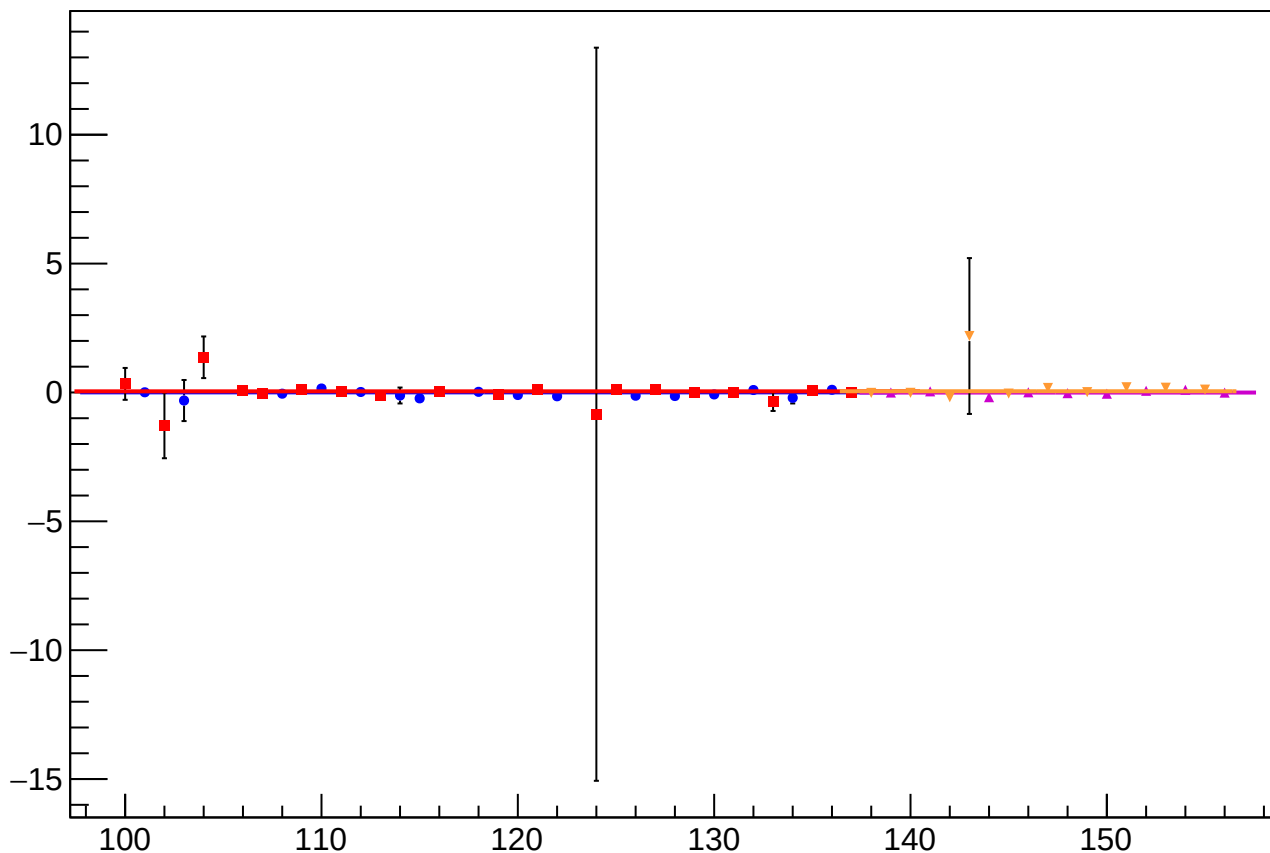
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 62.993+/-0.013 χ^2/NDF : 3581918.5/24

Out: 56.368+/-0.012 χ^2/NDF : 6953791.8/28

All: 59.560+/-0.009 χ^2/NDF : 10672508.9/53

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.047 $\pm$ 0.025 χ^2 /NDF:16.6/9

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.004 $\pm$ 0.025 χ^2 /NDF:5.3/8

Left: 0.021 $\pm$ 0.017 χ^2 /NDF: 24.0/18

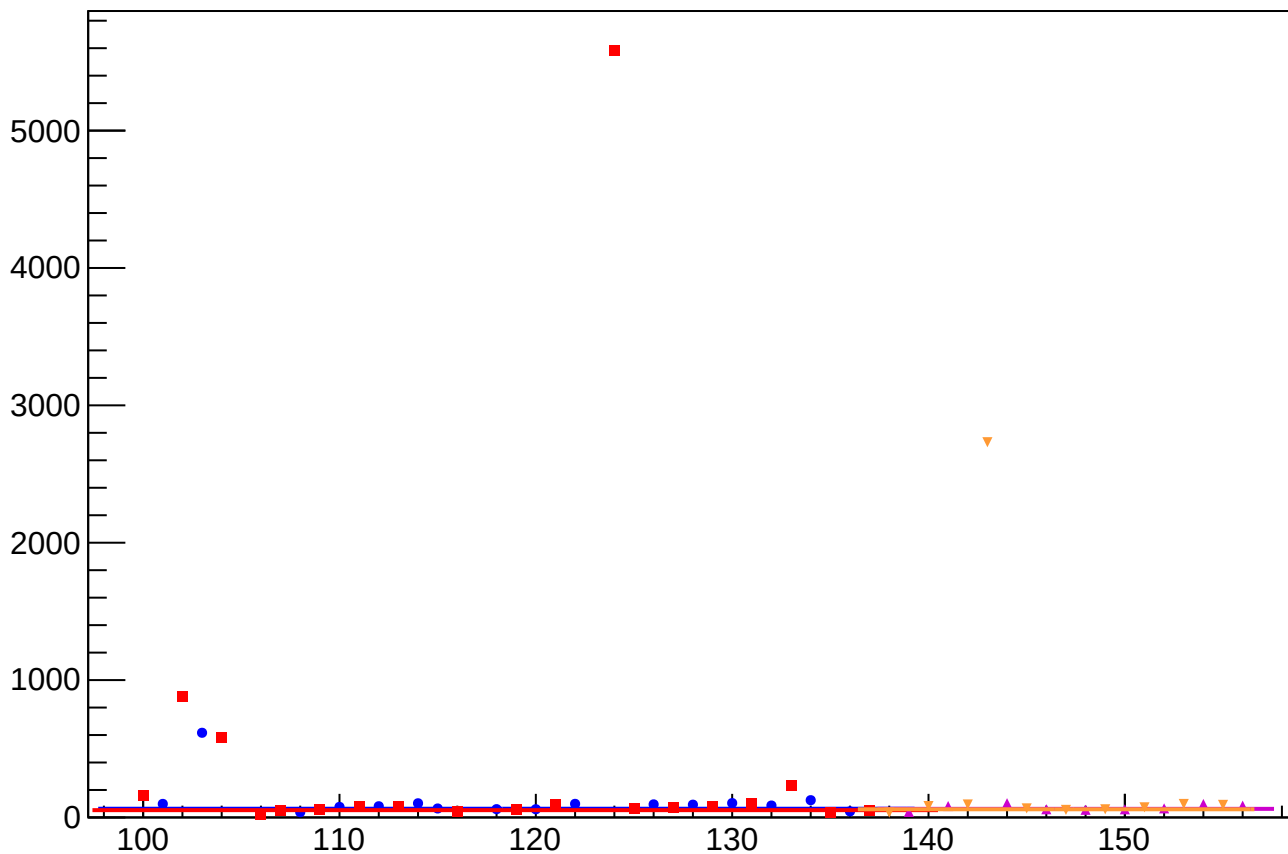
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.001 $\pm$ 0.018 χ^2 /NDF:18.6/24

Out: 0.045 $\pm$ 0.018 χ^2 /NDF:29.2/28

All: 0.023 $\pm$ 0.013 χ^2 /NDF: 51.2/53

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: 59.544+/-0.018 χ^2/NDF : 2943044.4/9

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 62.617+/-0.017 χ^2/NDF : 1135621.2/8

Left: 61.101+/-0.012 χ^2/NDF : 4094101.6/18

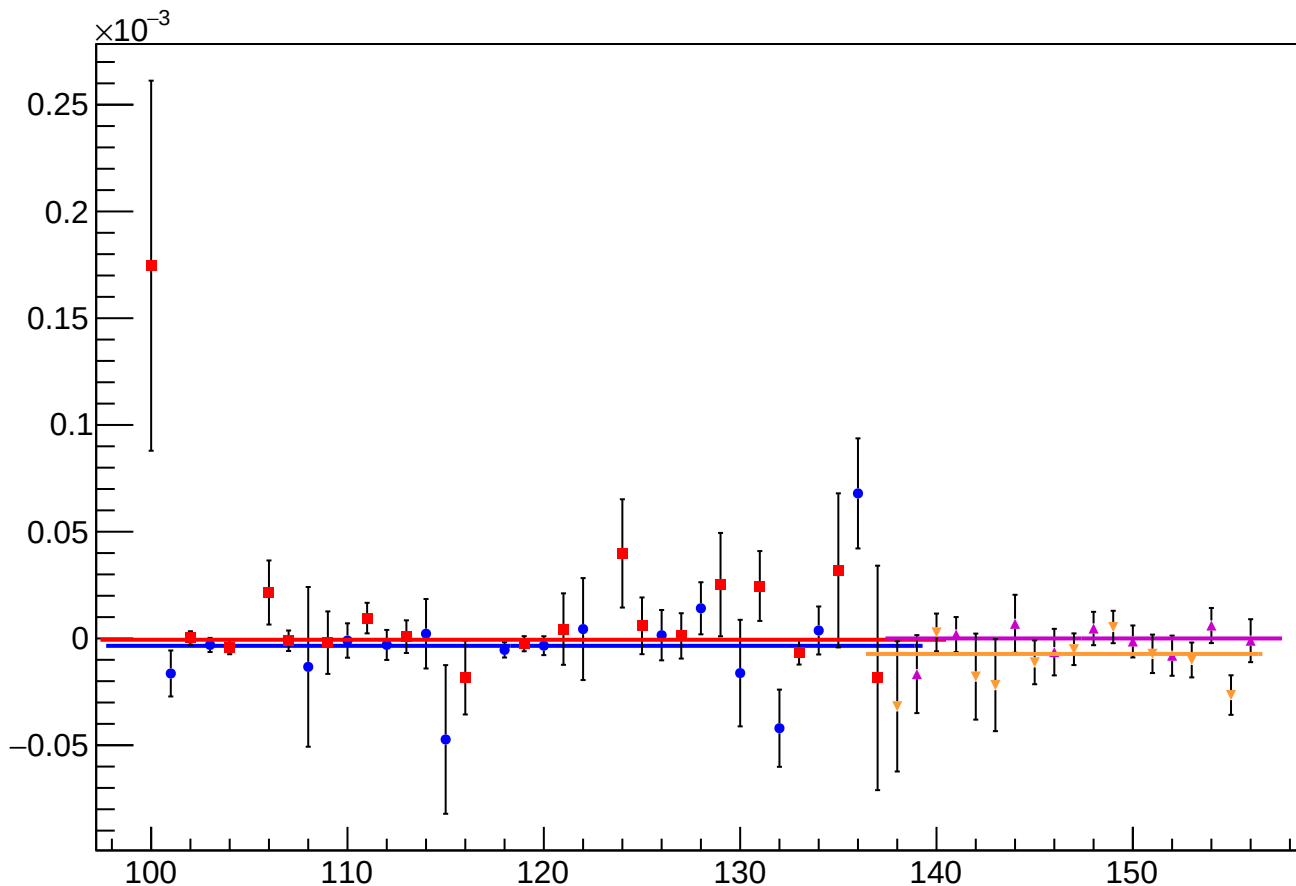
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 62.993+/-0.013 χ^2/NDF : 3581918.5/24

Out: 56.368+/-0.012 χ^2/NDF : 6953791.8/28

All: 59.560+/-0.009 χ^2/NDF : 10672508.9/53

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:10.1/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 19.2/18

Left In: 0.000+/-0.000 χ^2 /NDF:3.2/8

Left: -0.000+/-0.000 χ^2 /NDF: 16.0/18

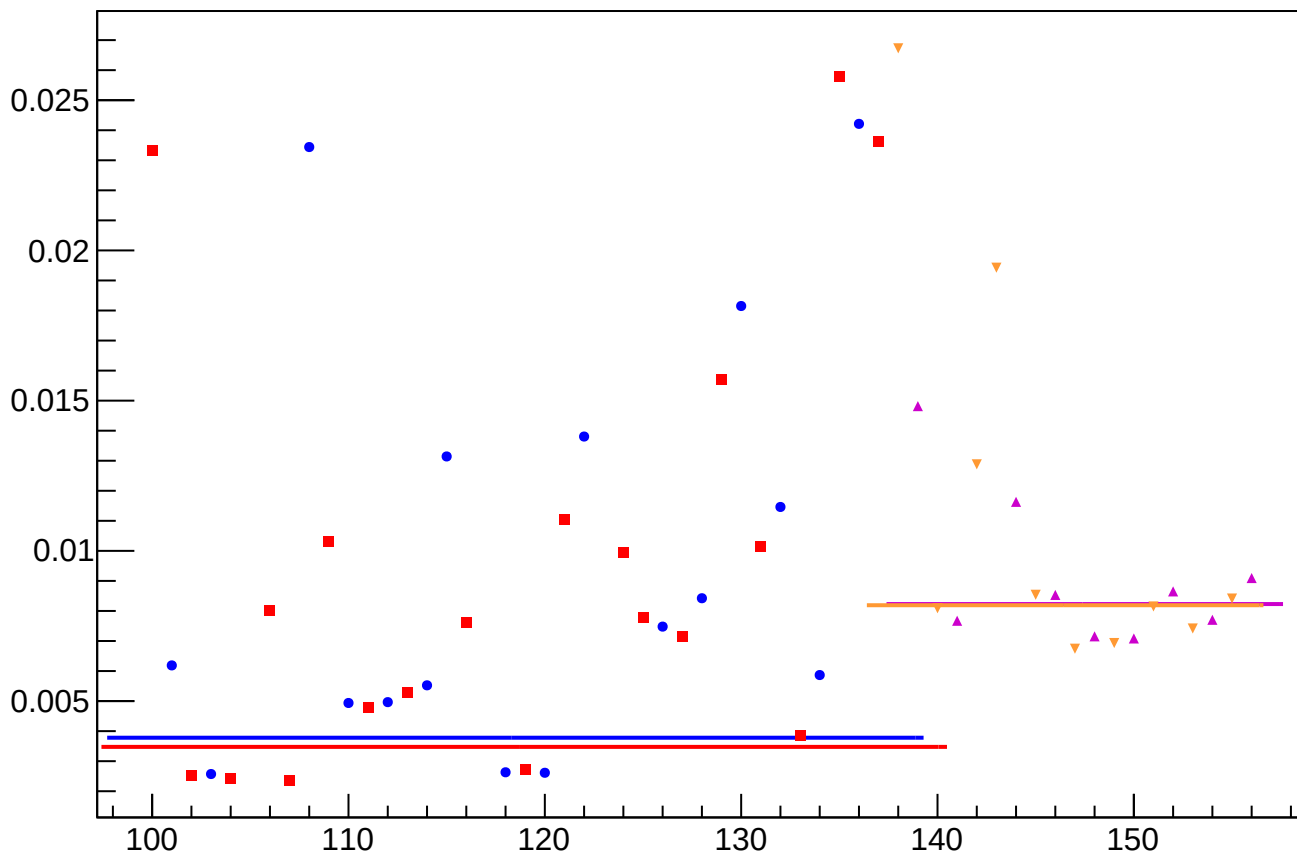
Right: -0.000+/-0.000 χ^2 /NDF: 39.5/34

In: -0.000+/-0.000 χ^2 /NDF:23.0/24

Out: -0.000+/-0.000 χ^2 /NDF:32.9/28

All: -0.000+/-0.000 χ^2 /NDF: 56.0/53

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 4719536.5/15

Left Out: 0.008+/-0.000 χ^2/NDF :1541859.0/9

Right Out: 0.003+/-0.000 χ^2/NDF : 4495340.7/18

Left In: 0.008+/-0.000 χ^2/NDF :508088.3/8

Left: 0.008+/-0.000 χ^2/NDF : 2050106.4/18

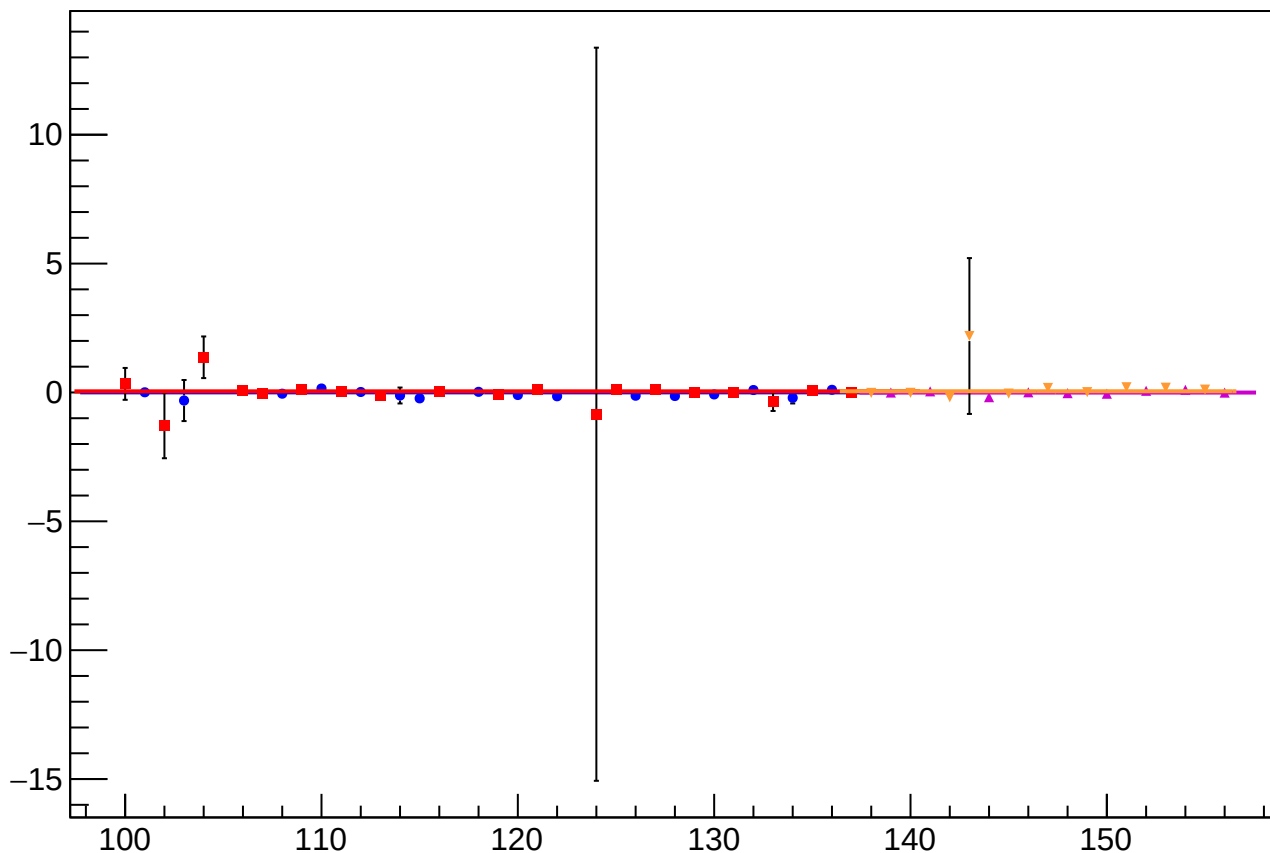
Right: 0.004+/-0.000 χ^2/NDF : 9247440.2/34

In: 0.005+/-0.000 χ^2/NDF :8240083.2/24

Out: 0.004+/-0.000 χ^2/NDF :9696844.8/28

All: 0.005+/-0.000 χ^2/NDF : 18054058.5/53

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.047 $\pm$ 0.025 χ^2 /NDF:16.6/9

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.004 $\pm$ 0.025 χ^2 /NDF:5.3/8

Left: 0.021 $\pm$ 0.017 χ^2 /NDF: 24.0/18

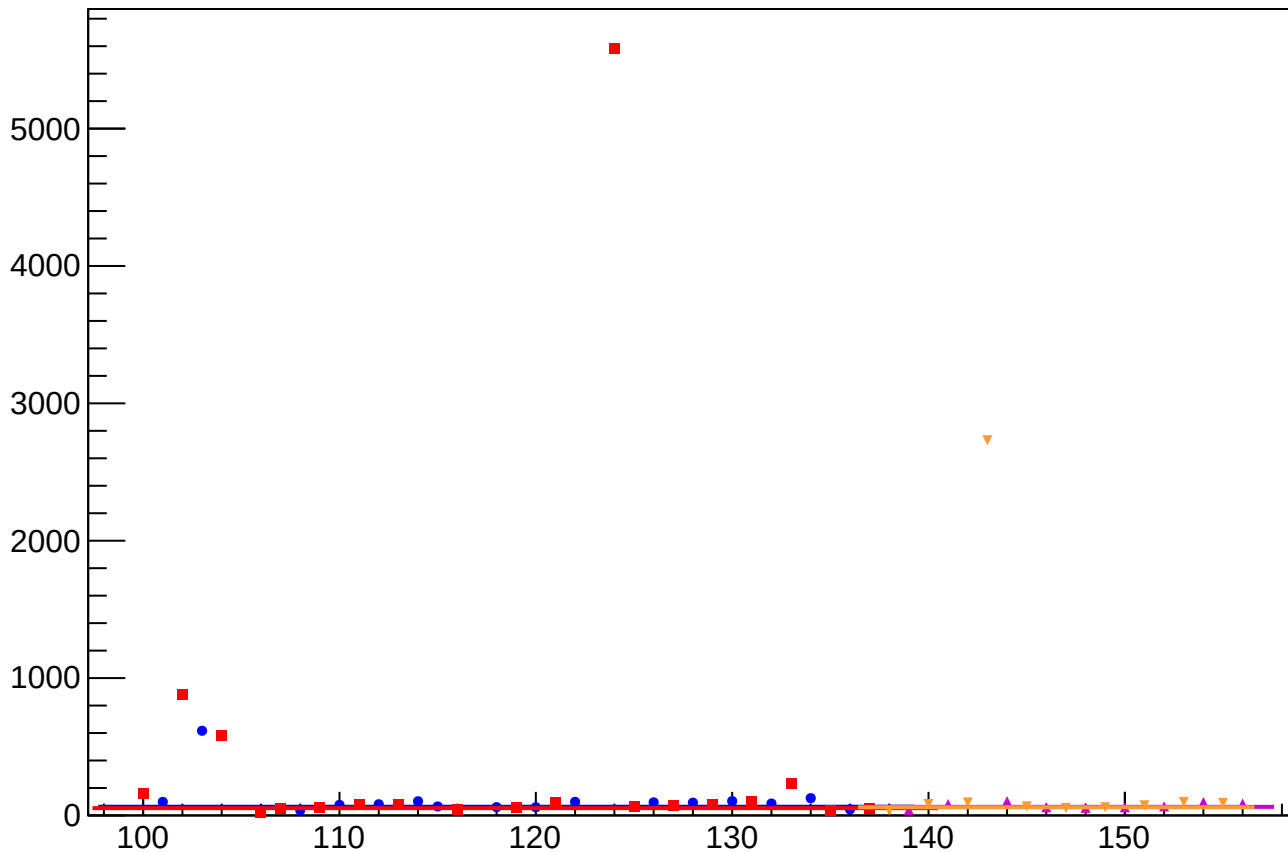
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.001 $\pm$ 0.018 χ^2 /NDF:18.6/24

Out: 0.045 $\pm$ 0.018 χ^2 /NDF:29.2/28

All: 0.023 $\pm$ 0.013 χ^2 /NDF: 51.2/53

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: 59.542+/-0.018 χ^2/NDF : 2943041.8/9

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 62.621+/-0.017 χ^2/NDF : 1135230.1/8

Left: 61.102+/-0.012 χ^2/NDF : 4093764.4/18

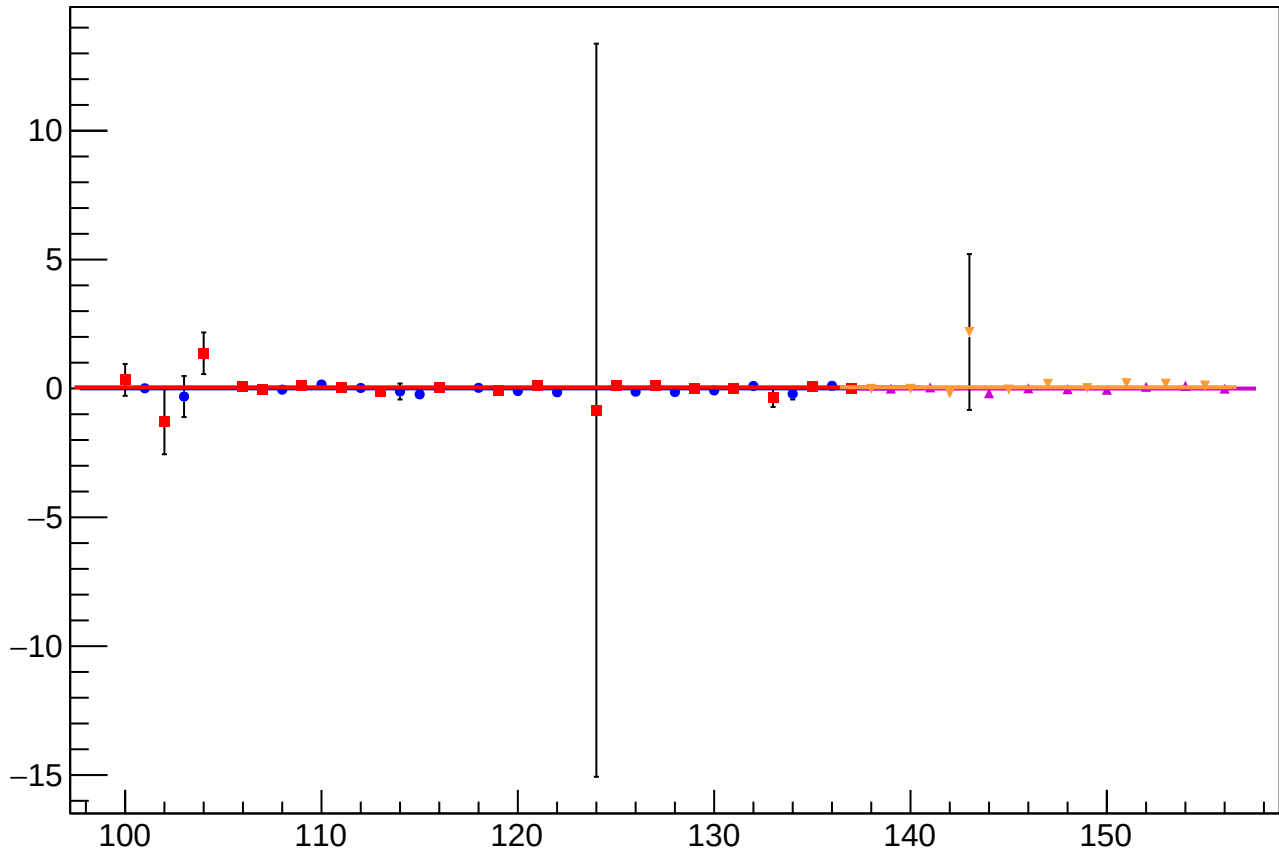
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 62.999+/-0.013 χ^2/NDF : 3580643.1/24

Out: 56.364+/-0.012 χ^2/NDF : 6954403.7/28

All: 59.560+/-0.009 χ^2/NDF : 10672239.1/53

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.047 $\pm$ 0.025 χ^2 /NDF:16.6/9

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.004 $\pm$ 0.025 χ^2 /NDF:5.3/8

Left: 0.021 $\pm$ 0.017 χ^2 /NDF: 24.0/18

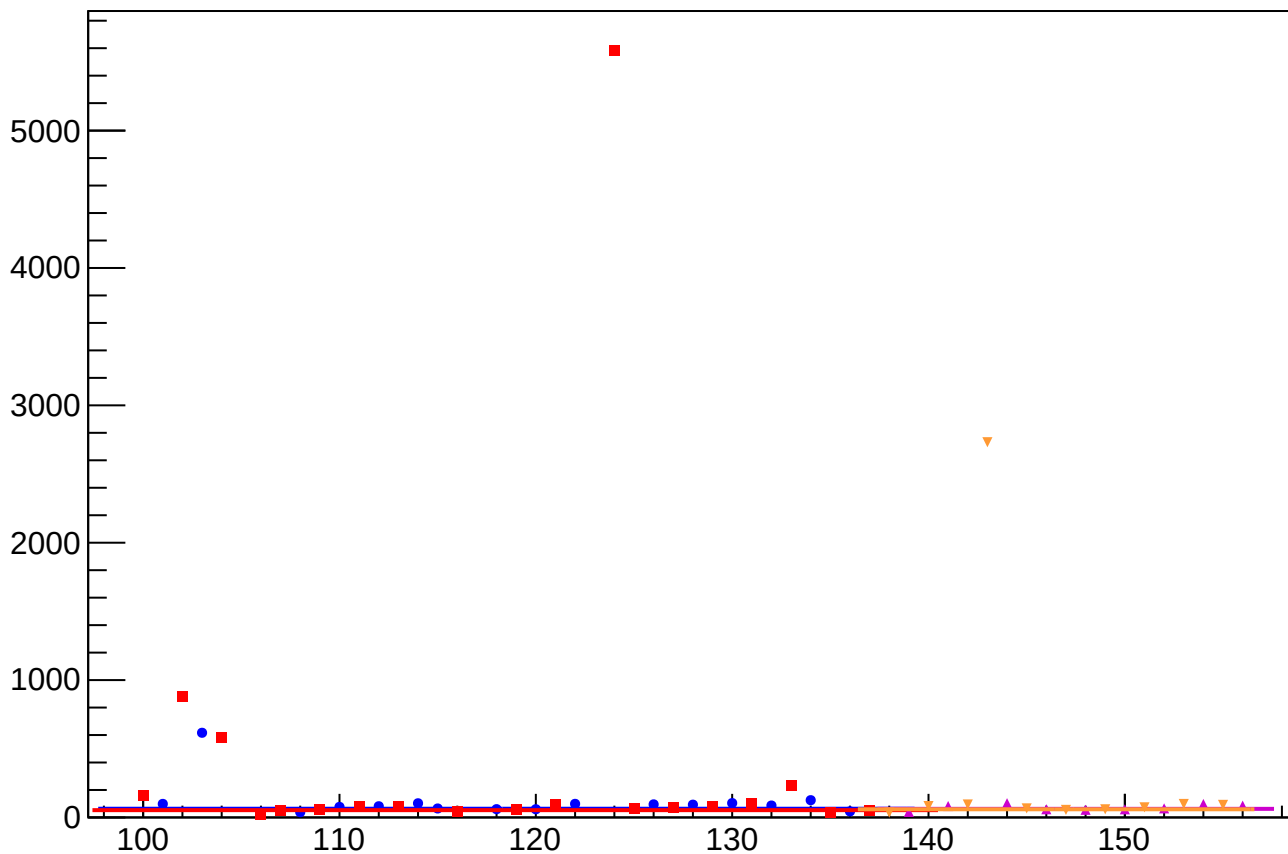
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.001 $\pm$ 0.018 χ^2 /NDF:18.6/24

Out: 0.045 $\pm$ 0.018 χ^2 /NDF:29.2/28

All: 0.023 $\pm$ 0.013 χ^2 /NDF: 51.2/53

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: 59.542+/-0.018 χ^2/NDF : 2943041.8/9

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 62.621+/-0.017 χ^2/NDF : 1135230.1/8

Left: 61.102+/-0.012 χ^2/NDF : 4093764.4/18

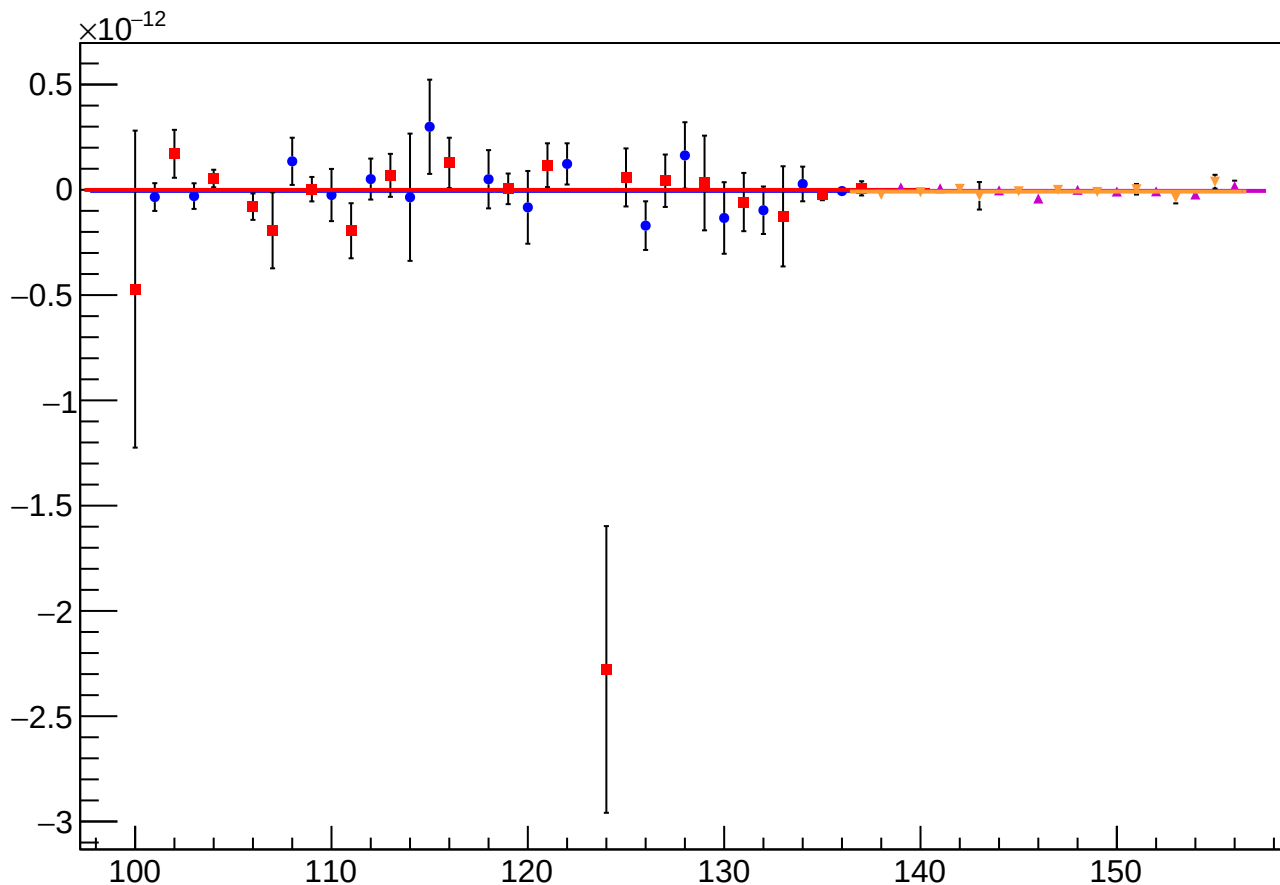
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 62.999+/-0.013 χ^2/NDF : 3580643.1/24

Out: 56.364+/-0.012 χ^2/NDF : 6954403.7/28

All: 59.560+/-0.009 χ^2/NDF : 10672239.1/53

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:5.3/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 25.1/18

Left In: -0.000+/-0.000 χ^2 /NDF:8.3/8

Left: -0.000+/-0.000 χ^2 /NDF: 13.8/18

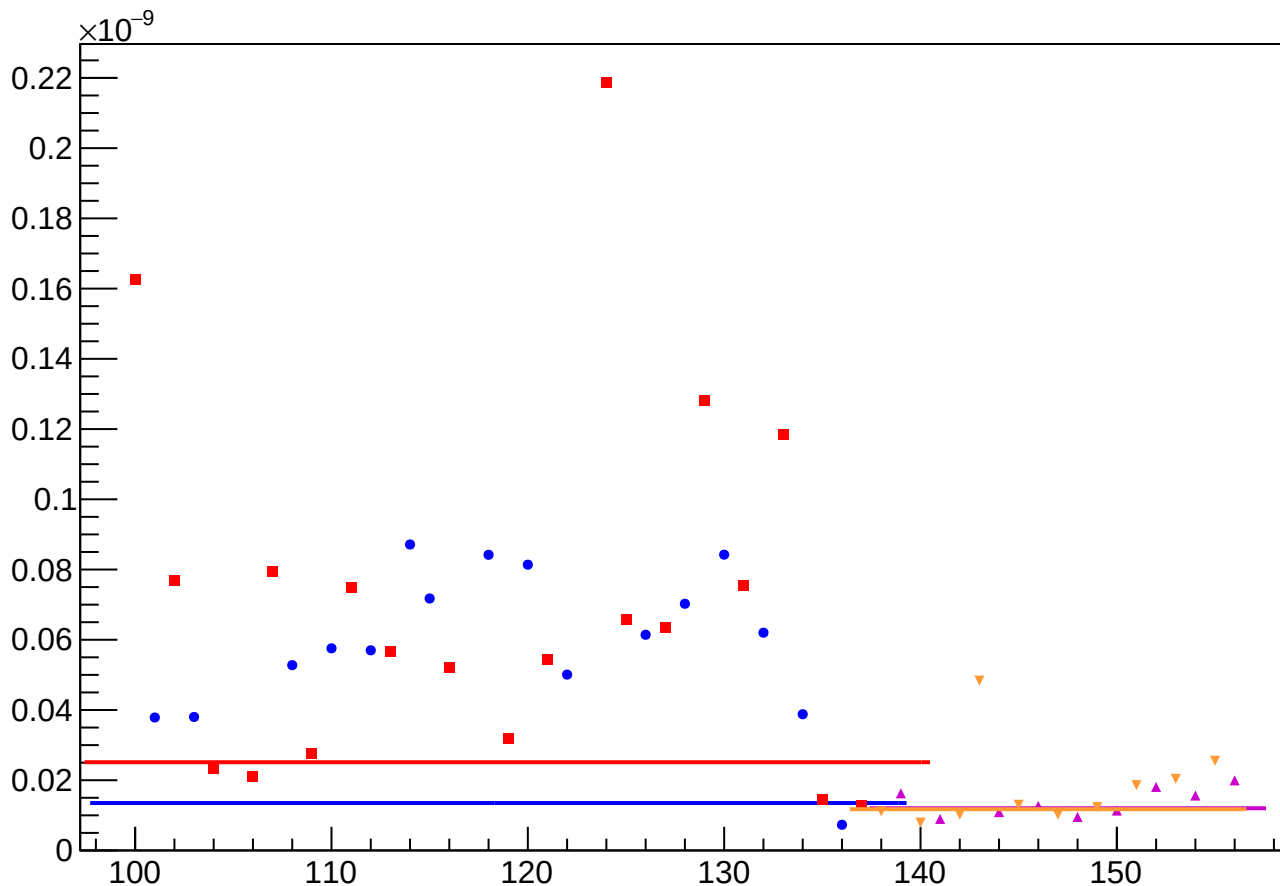
Right: -0.000+/-0.000 χ^2 /NDF: 36.0/34

In: -0.000+/-0.000 χ^2 /NDF:19.1/24

Out: -0.000+/-0.000 χ^2 /NDF:30.7/28

All: -0.000+/-0.000 χ^2 /NDF: 49.9/53

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 :1662012.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3578472.9/18

Left In: 0.000+/-0.000 χ^2/NDF :670425.4/8

Left: 0.000+/-0.000 χ^2/NDF : 2334738.7/18

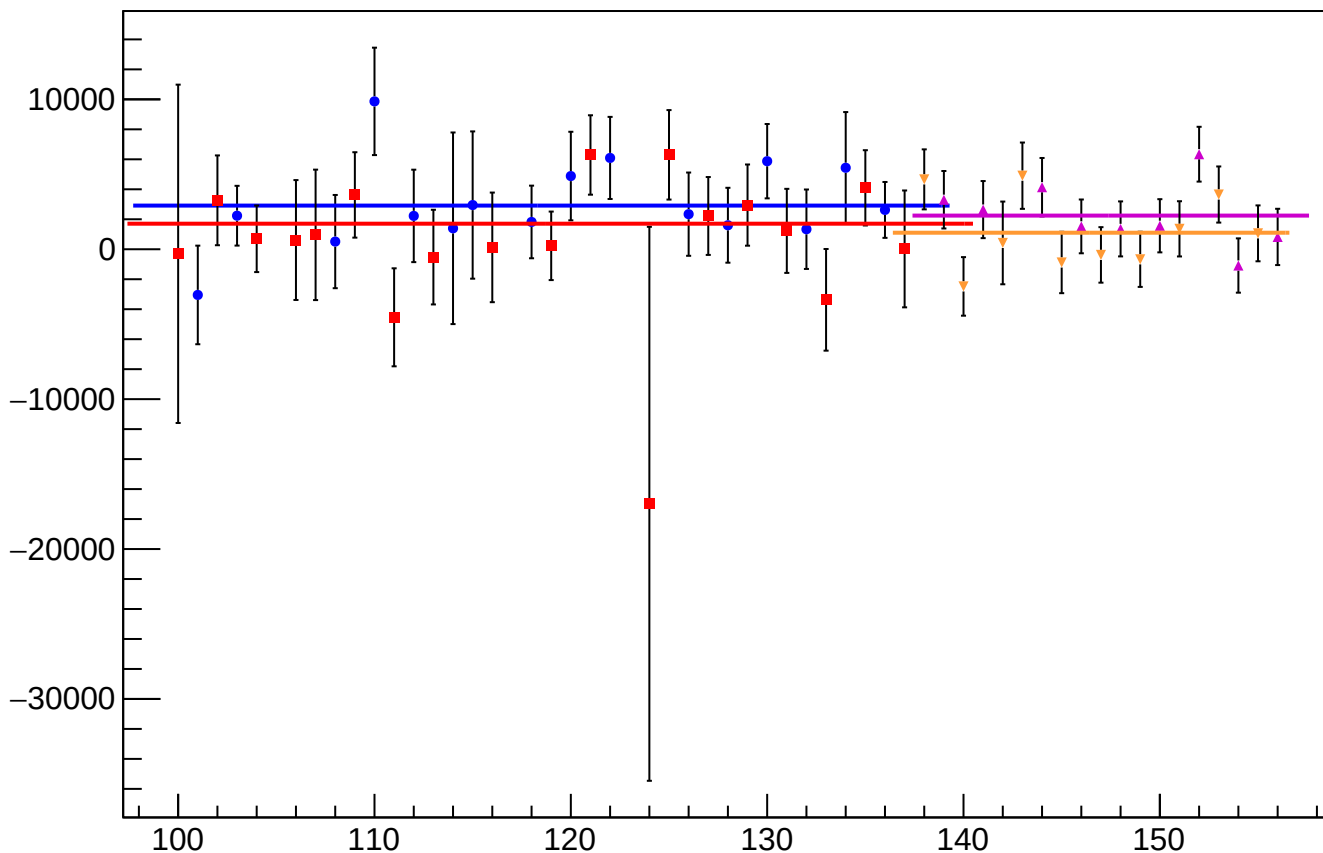
Right: 0.000+/-0.000 χ^2/NDF : 9384983.4/34

In: 0.000+/-0.000 χ^2/NDF :5696550.1/24

Out: 0.000+/-0.000 χ^2/NDF :6631762.2/28

All: 0.000+/-0.000 χ^2/NDF : 12367593.4/53

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2912.991 $\pm$ 695.062 χ^2 /NDF: 12.4/15

Left Out: 1102.796 $\pm$ 627.364 χ^2 /NDF:13.9/9

Right Out: 1704.904 $\pm$ 706.846 χ^2 /NDF: 15.8/18

Left In: 2245.506 $\pm$ 617.296 χ^2 /NDF:10.8/8

Left: 1683.394 $\pm$ 440.010 χ^2 /NDF: 26.4/18

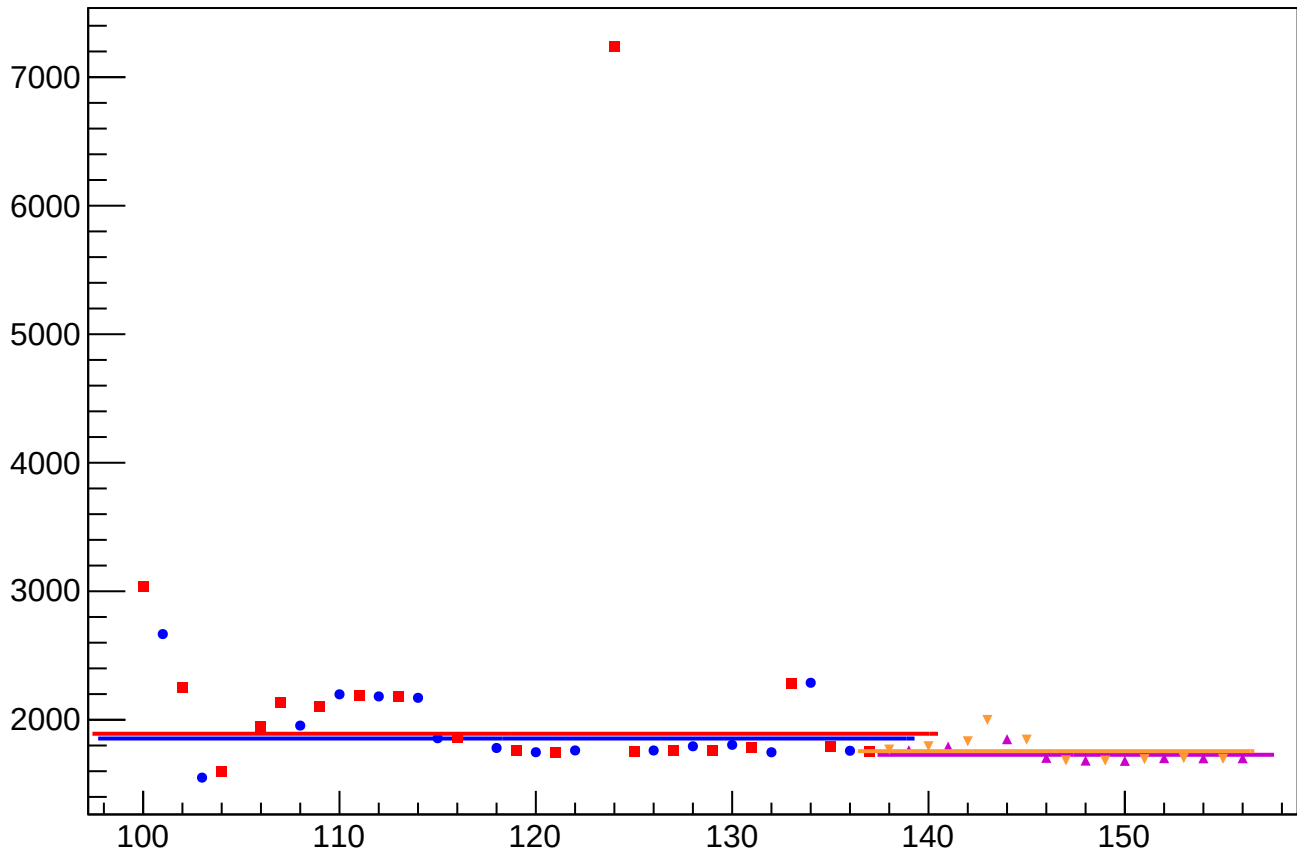
Right: 2319.102 $\pm$ 495.597 χ^2 /NDF: 29.8/34

In: 2539.833 $\pm$ 461.550 χ^2 /NDF:23.8/24

Out: 1368.108 $\pm$ 469.209 χ^2 /NDF:30.2/28

All: 1963.612 $\pm$ 329.039 χ^2 /NDF: 57.1/53

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314 ± 0.491 χ^2/NDF : 263322.7/15

Left Out: 1755.950 ± 0.444 χ^2/NDF : 42535.6/9

Right Out: 1891.469 ± 0.499 χ^2/NDF : 364050.6/18

Left In: 1727.852 ± 0.436 χ^2/NDF : 14910.4/8

Left: 1741.674 ± 0.311 χ^2/NDF : 59484.3/18

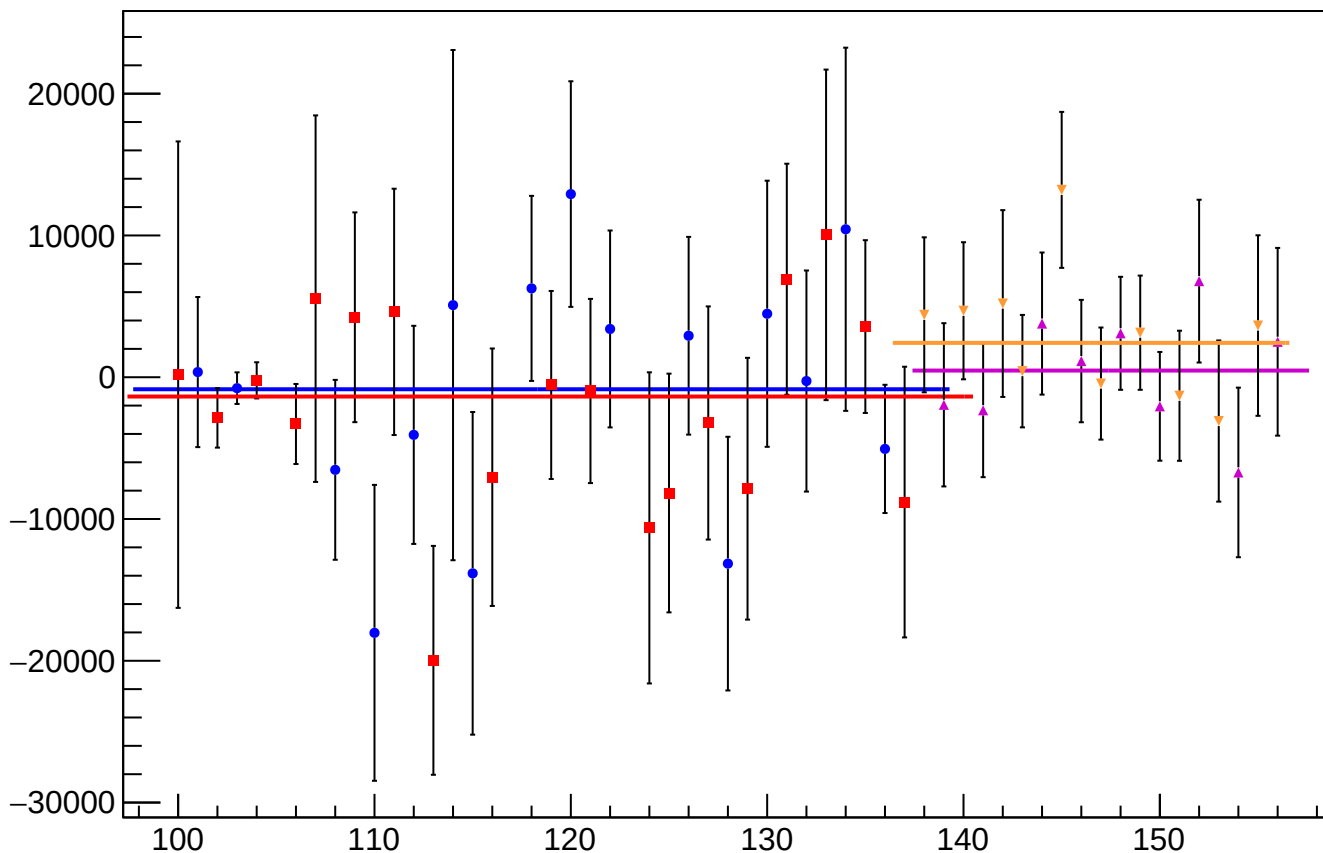
Right: 1872.622 ± 0.350 χ^2/NDF : 630189.4/34

In: 1783.615 ± 0.326 χ^2/NDF : 315245.5/24

Out: 1815.820 ± 0.331 χ^2/NDF : 447814.8/28

All: 1799.469 ± 0.233 χ^2/NDF : 767853.7/53

asym_atl1r2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -847.977+/-962.920 χ^2/NDF : 13.9/15

Left Out: 2423.130+/-1534.550 χ^2/NDF : 6.8/9

Right Out: -1361.523+/-915.925 χ^2/NDF : 14.0/18

Left In: 470.725+/-1620.819 χ^2/NDF : 4.6/8

Left: 1500.267+/-1114.341 χ^2/NDF : 12.2/18

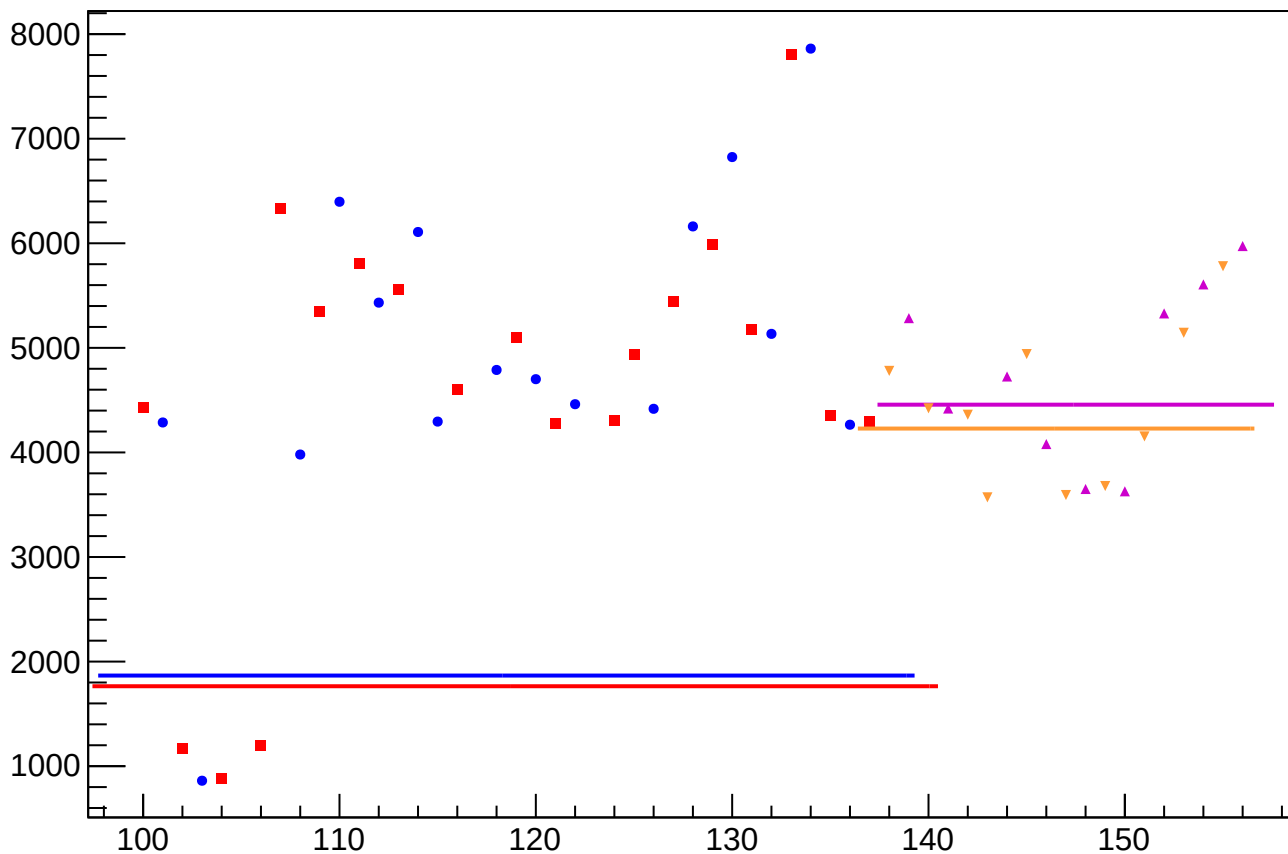
Right: -1117.587+/-663.649 χ^2/NDF : 28.0/34

In: -503.962+/-827.846 χ^2/NDF : 19.0/24

Out: -367.393+/-786.483 χ^2/NDF : 25.3/28

All: -432.181+/-570.190 χ^2/NDF : 44.3/53

asym_atl1r2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1866.405+/-0.681 χ^2/NDF : 6849638.3/15

Left Out: 4228.341+/-1.085 χ^2/NDF : 373112.3/9

Right Out: 1764.281+/-0.648 χ^2/NDF : 6434807.7/18

Left In: 4456.658+/-1.146 χ^2/NDF : 462705.8/8

Left: 4336.262+/-0.788 χ^2/NDF : 856745.4/18

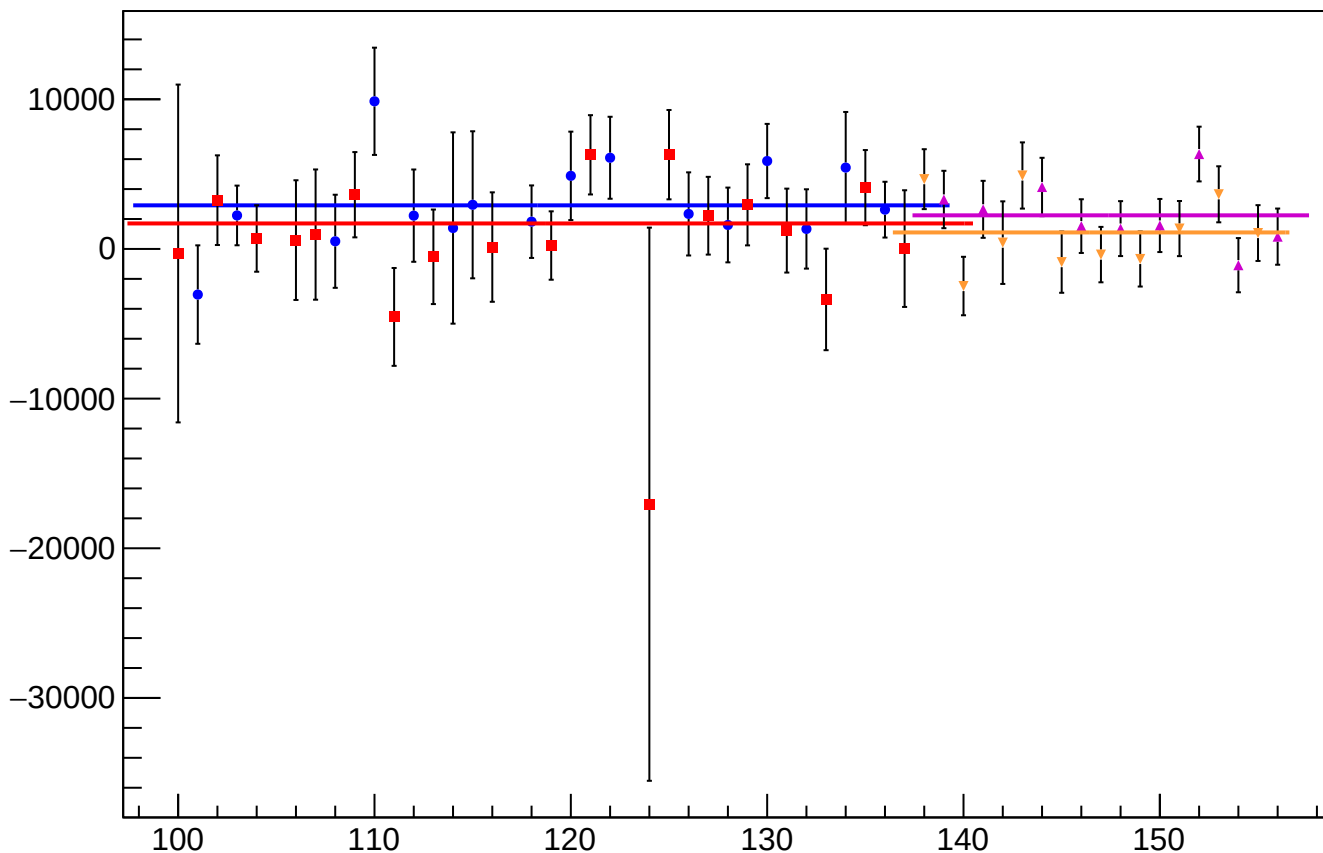
Right: 1812.790+/-0.469 χ^2/NDF : 13296256.2/34

In: 2542.133+/-0.585 χ^2/NDF : 11087756.2/24

Out: 2411.526+/-0.556 χ^2/NDF : 10610074.4/28

All: 2473.485+/-0.403 χ^2/NDF : 21723996.1/5

cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091 $\pm$ 695.062 χ^2 /NDF: 12.4/15

Left Out: 1102.671 $\pm$ 627.364 χ^2 /NDF:13.9/9

Right Out: 1703.523 $\pm$ 706.847 χ^2 /NDF: 15.8/18

Left In: 2245.667 $\pm$ 617.296 χ^2 /NDF:10.8/8

Left: 1683.414 $\pm$ 440.010 χ^2 /NDF: 26.4/18

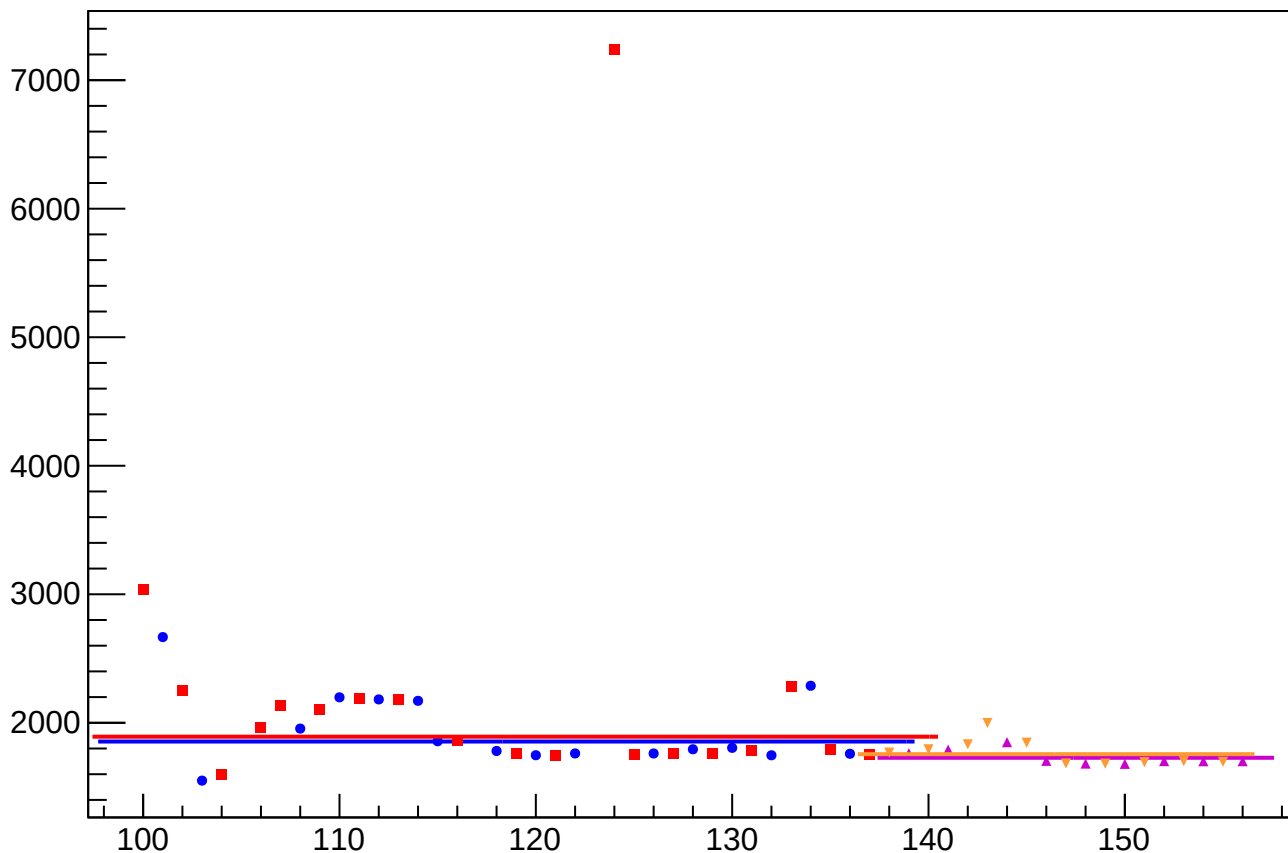
Right: 2318.475 $\pm$ 495.597 χ^2 /NDF: 29.8/34

In: 2539.968 $\pm$ 461.550 χ^2 /NDF:23.8/24

Out: 1367.429 $\pm$ 469.209 χ^2 /NDF:30.2/28

All: 1963.347 $\pm$ 329.039 χ^2 /NDF: 57.1/53

cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1755.950+/-0.444 χ^2/NDF : 42535.6/9

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1727.852+/-0.436 χ^2/NDF : 14910.4/8

Left: 1741.674+/-0.311 χ^2/NDF : 59484.3/18

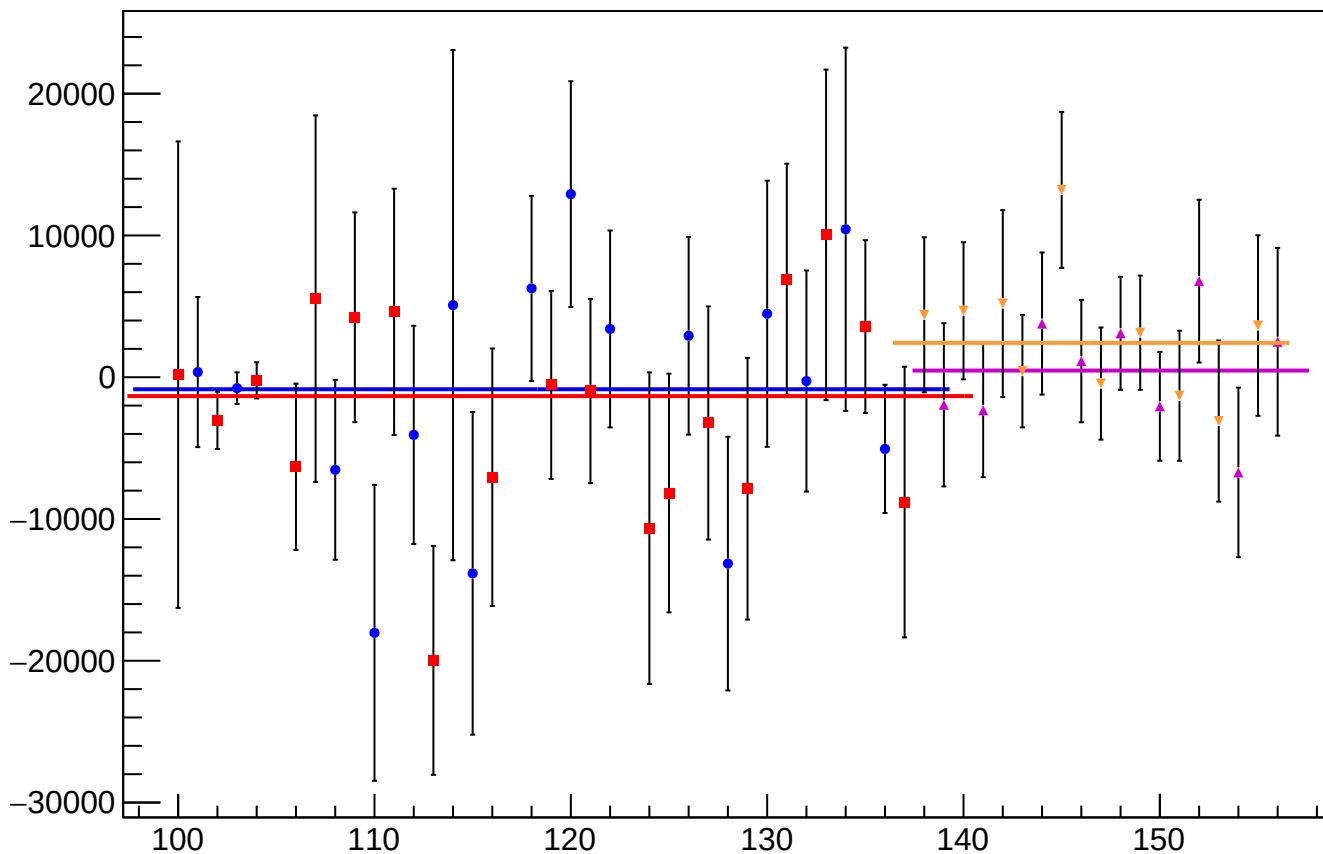
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1783.615+/-0.326 χ^2/NDF : 315245.4/24

Out: 1816.007+/-0.331 χ^2/NDF : 448325.2/28

All: 1799.560+/-0.233 χ^2/NDF : 768419.4/53

asym_atl1r2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -847.504 $\pm$ 962.866 χ^2 /NDF: 13.9/15

Left Out: 2423.033 $\pm$ 1534.548 χ^2 /NDF:6.8/9

Right Out: -1331.371 $\pm$ 948.163 χ^2 /NDF: 14.4/18

Left In: 470.874 $\pm$ 1620.819 χ^2 /NDF:4.6/8

Left: 1500.287 $\pm$ 1114.340 χ^2 /NDF: 12.2/18

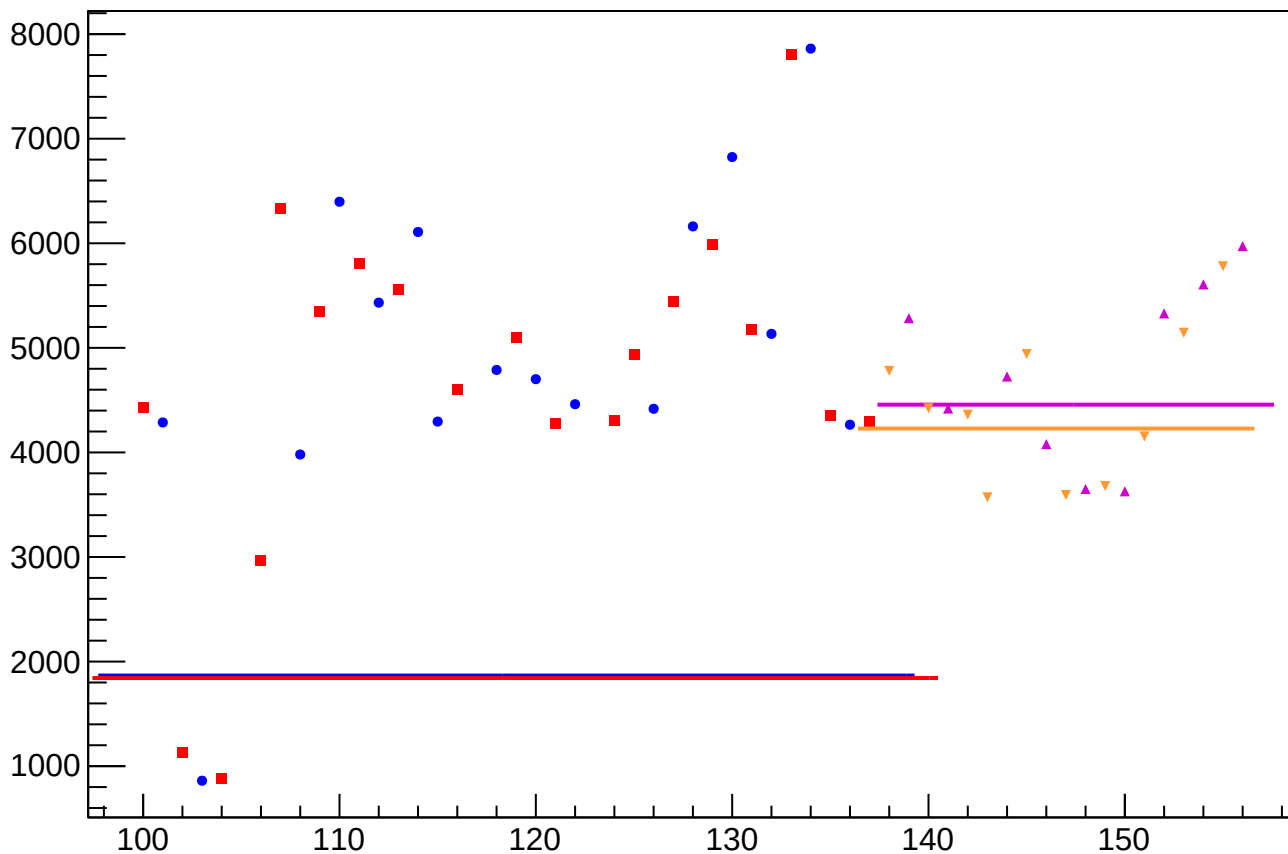
Right: -1093.160 $\pm$ 675.591 χ^2 /NDF: 28.4/34

In: -503.602 $\pm$ 827.812 χ^2 /NDF:19.0/24

Out: -294.059 $\pm$ 806.612 χ^2 /NDF:25.6/28

All: -396.113 $\pm$ 577.710 χ^2 /NDF: 44.6/53

asym_atl1r2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1866.251+/-0.681 χ^2/NDF : 6850061.4/15

Left Out: 4228.334+/-1.085 χ^2/NDF : 373120.2/9

Right Out: 1842.882+/-0.670 χ^2/NDF : 6458456.4/18

Left In: 4456.656+/-1.146 χ^2/NDF : 462714.4/8

Left: 4336.257+/-0.788 χ^2/NDF : 856762.7/18

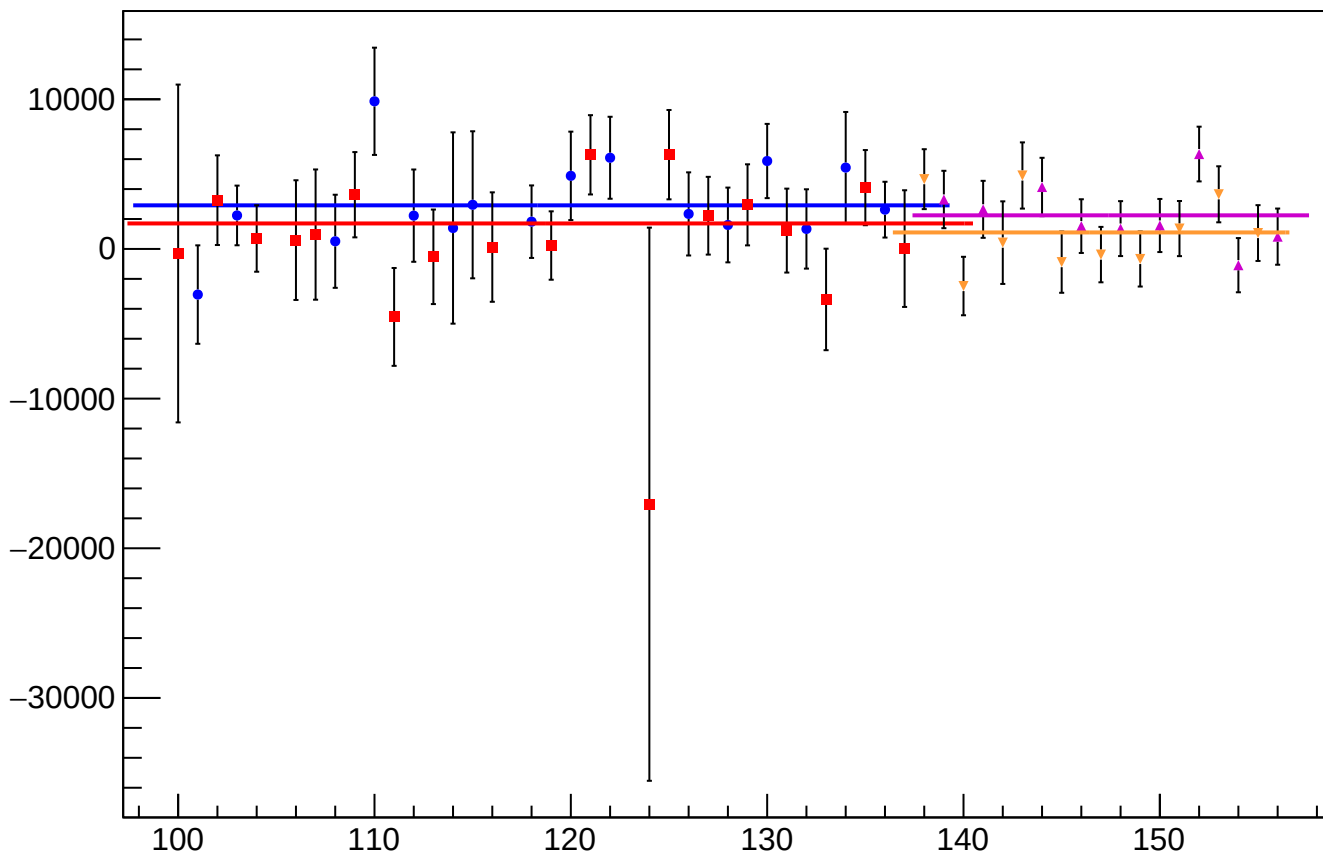
Right: 1854.387+/-0.478 χ^2/NDF : 13309116.0/34

In: 2541.964+/-0.585 χ^2/NDF : 11088738.9/24

Out: 2501.963+/-0.570 χ^2/NDF : 10329206.1/28

All: 2521.445+/-0.409 χ^2/NDF : 21420340.4/5

eigen_cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091 $\pm$ 695.062 χ^2 /NDF: 12.4/15

Left Out: 1102.671 $\pm$ 627.364 χ^2 /NDF:13.9/9

Right Out: 1703.523 $\pm$ 706.847 χ^2 /NDF: 15.8/18

Left In: 2245.667 $\pm$ 617.296 χ^2 /NDF:10.8/8

Left: 1683.414 $\pm$ 440.010 χ^2 /NDF: 26.4/18

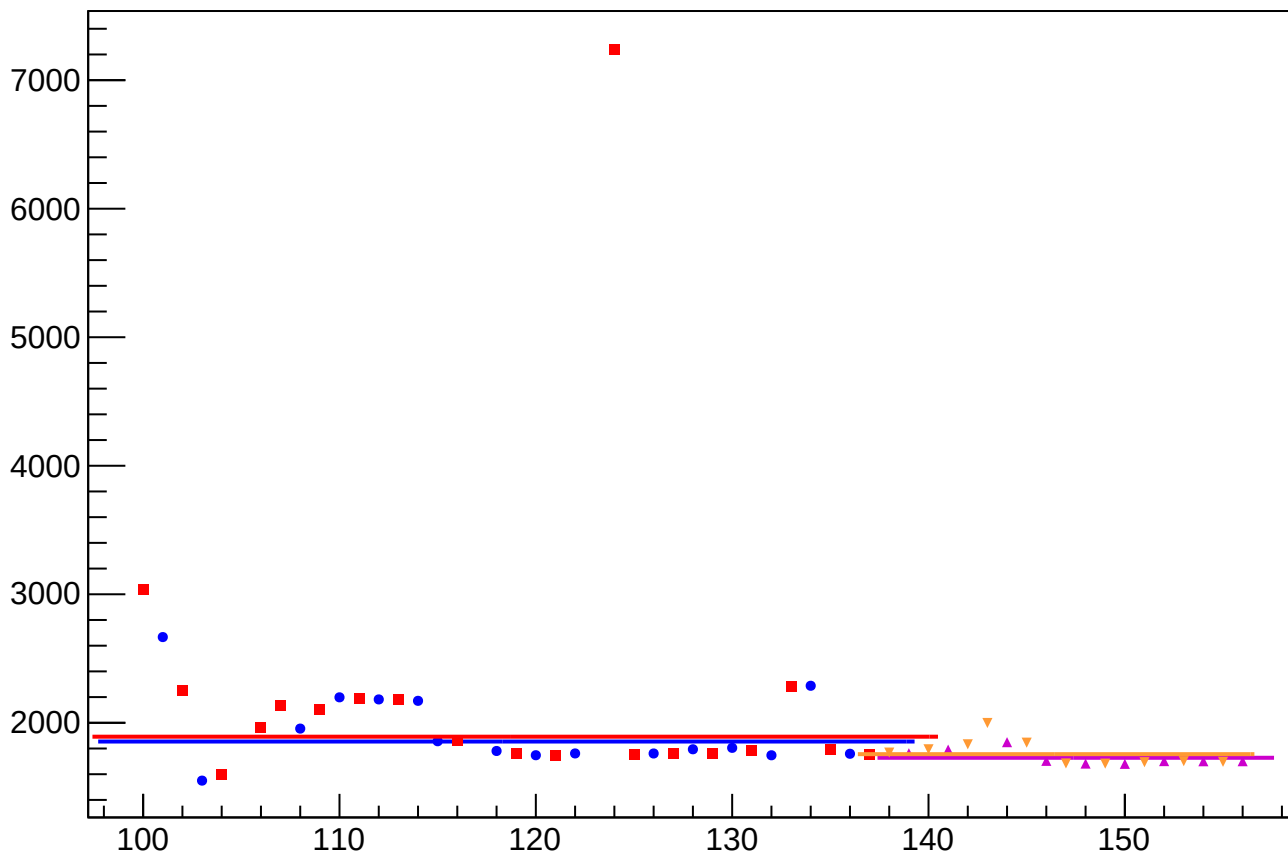
Right: 2318.475 $\pm$ 495.597 χ^2 /NDF: 29.8/34

In: 2539.968 $\pm$ 461.550 χ^2 /NDF:23.8/24

Out: 1367.429 $\pm$ 469.209 χ^2 /NDF:30.2/28

All: 1963.347 $\pm$ 329.039 χ^2 /NDF: 57.1/53

eigen_cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1755.950+/-0.444 χ^2/NDF : 42535.6/9

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1727.852+/-0.436 χ^2/NDF : 14910.4/8

Left: 1741.674+/-0.311 χ^2/NDF : 59484.3/18

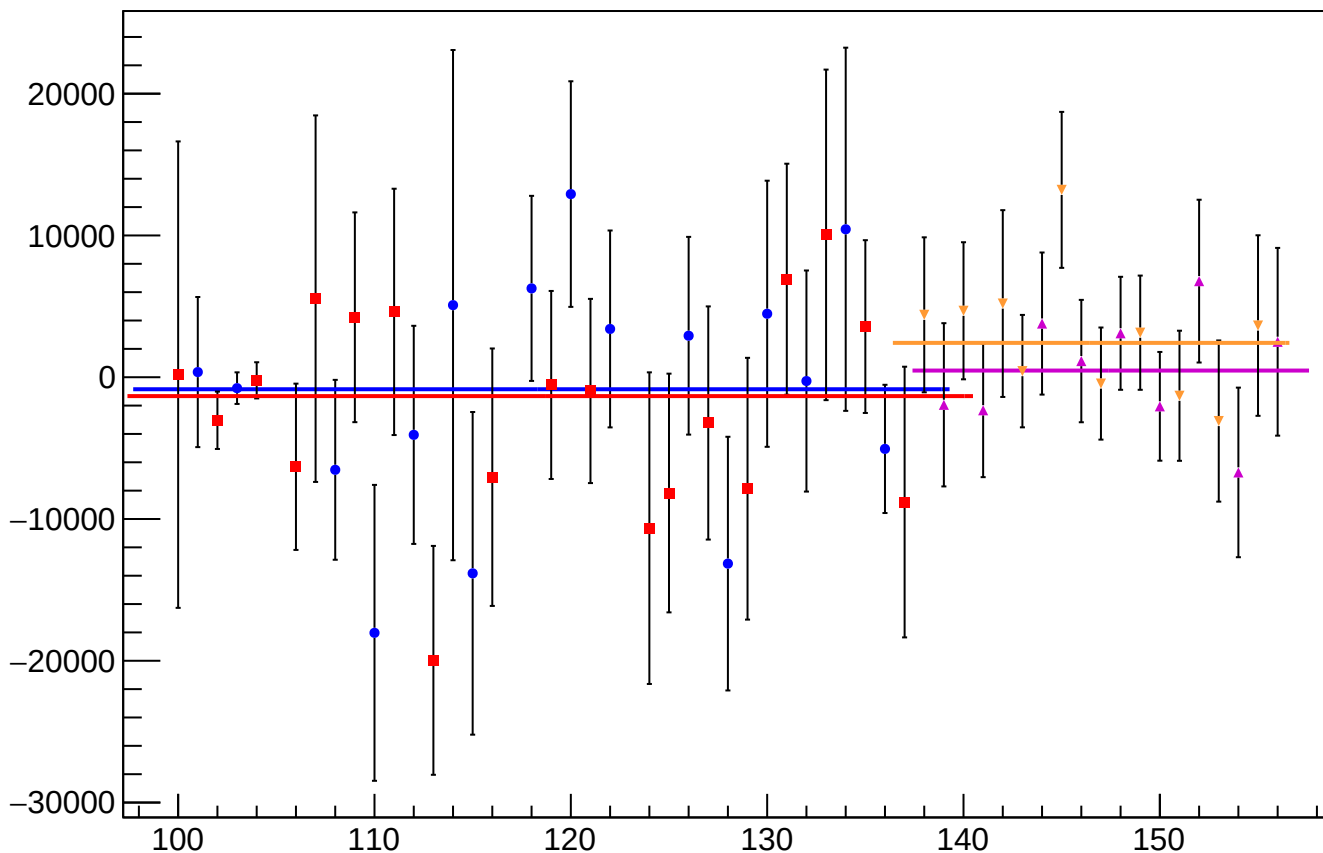
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1783.615+/-0.326 χ^2/NDF : 315245.4/24

Out: 1816.007+/-0.331 χ^2/NDF : 448325.2/28

All: 1799.560+/-0.233 χ^2/NDF : 768419.4/53

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: 2423.033+/-1534.548 χ^2/NDF : 6.8/9

Right Out: -1331.371+/-948.163 χ^2/NDF : 14.4/18

Left In: 470.874+/-1620.819 χ^2/NDF : 4.6/8

Left: 1500.287+/-1114.340 χ^2/NDF : 12.2/18

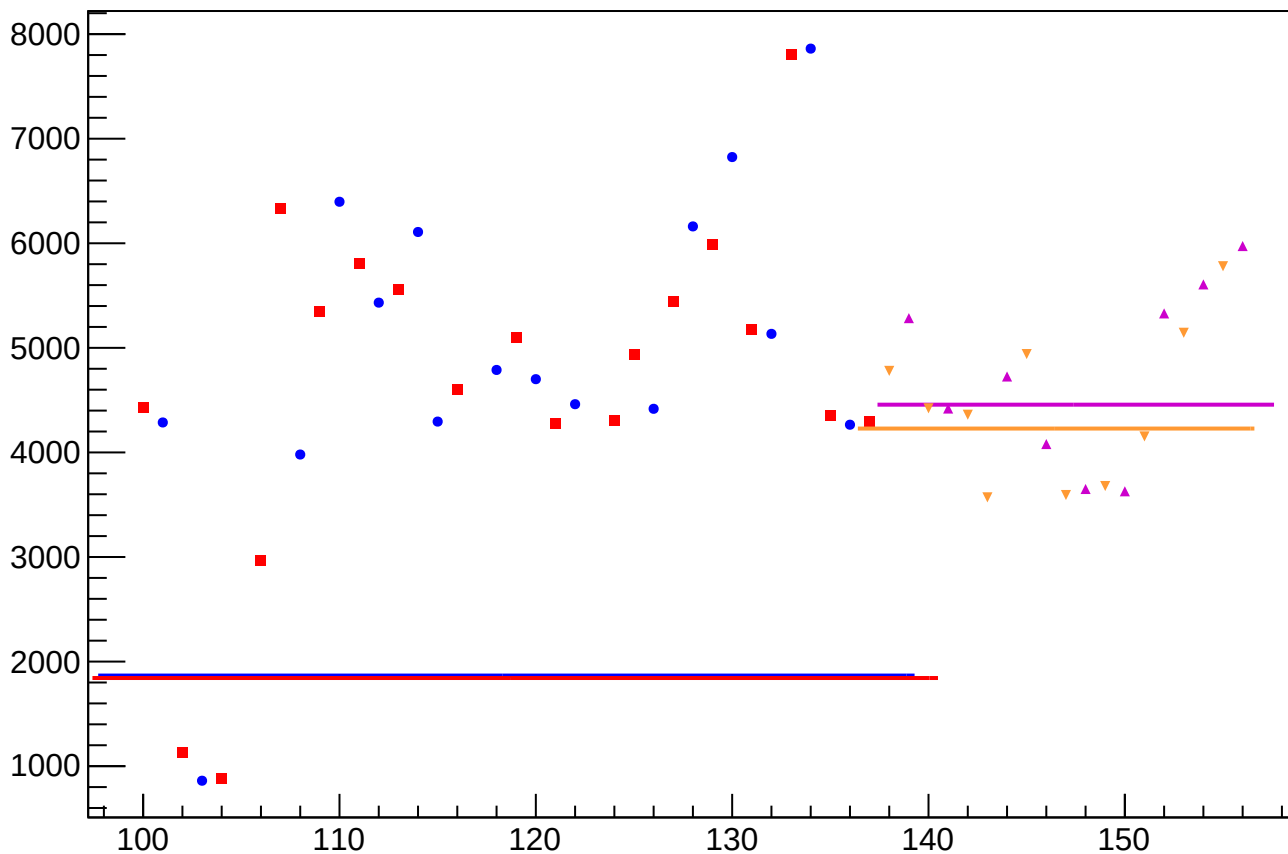
Right: -1093.160+/-675.591 χ^2/NDF : 28.4/34

In: -503.602+/-827.812 χ^2/NDF : 19.0/24

Out: -294.059+/-806.612 χ^2/NDF : 25.6/28

All: -396.113+/-577.710 χ^2/NDF : 44.6/53

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: 4228.334+/-1.085 χ^2/NDF : 373120.2/9

Right Out: 1842.882+/-0.670 χ^2/NDF : 6458456.4/18

Left In: 4456.656+/-1.146 χ^2/NDF : 462714.4/8

Left: 4336.257+/-0.788 χ^2/NDF : 856762.7/18

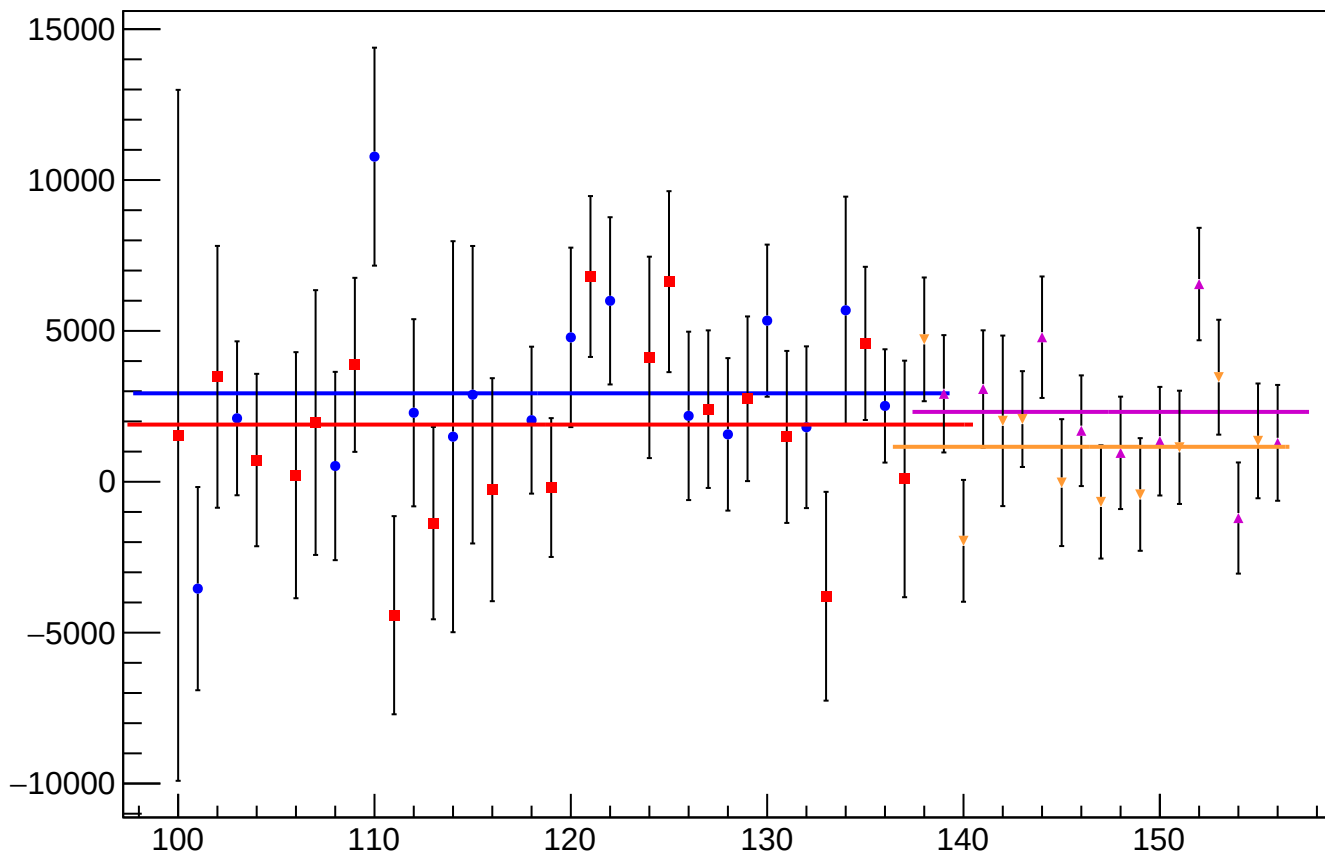
Right: 1854.387+/-0.478 χ^2/NDF : 13309116.0/34

In: 2541.964+/-0.585 χ^2/NDF : 11088738.9/24

Out: 2501.963+/-0.570 χ^2/NDF : 10329206.1/28

All: 2521.445+/-0.409 χ^2/NDF : 21420340.4/5

dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.691+/-718.305 χ^2/NDF : 13.0/15

Left Out: 1159.174+/-615.639 χ^2/NDF : 9.3/9

Right Out: 1895.503+/-721.954 χ^2/NDF : 17.4/18

Left In: 2315.809+/-629.343 χ^2/NDF : 11.8/8

Left: 1724.761+/-440.087 χ^2/NDF : 22.8/18

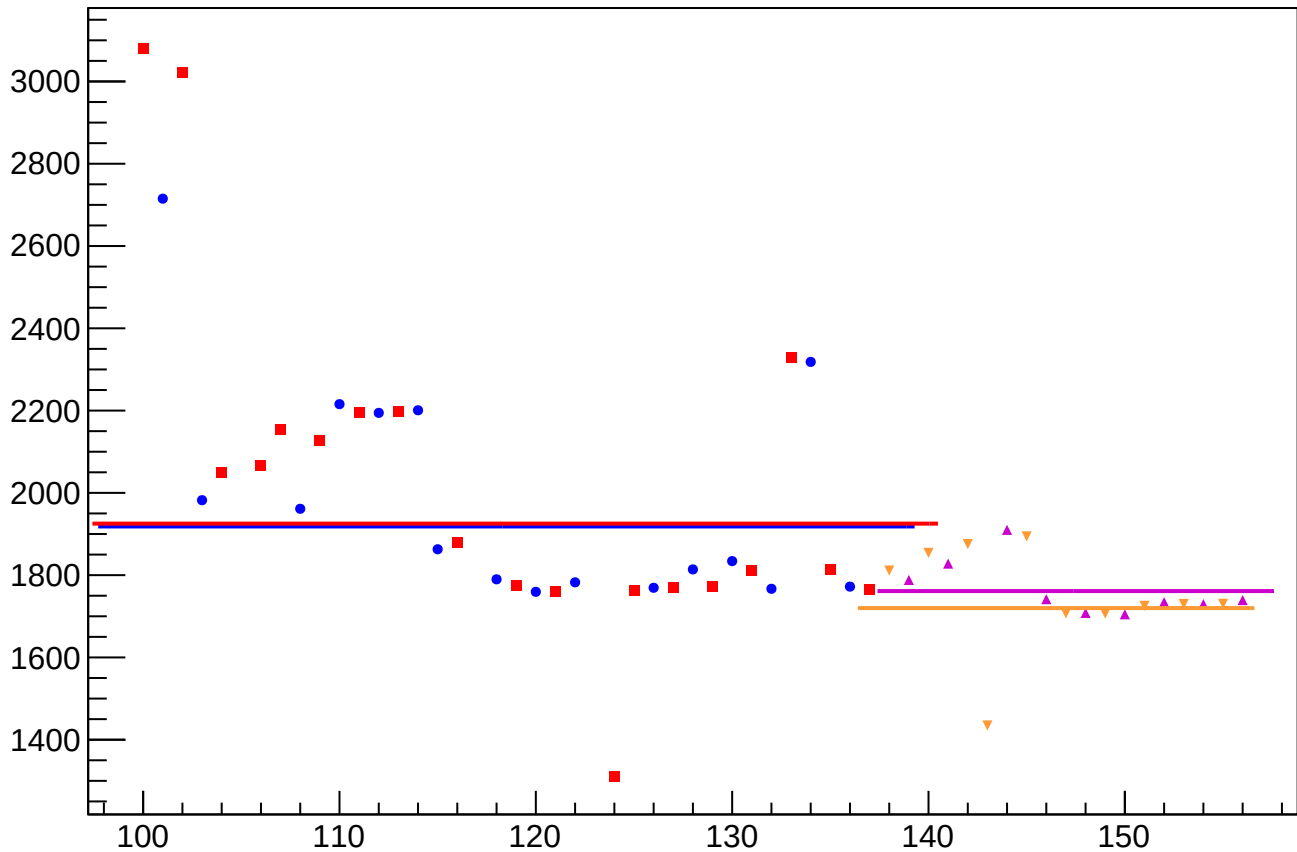
Right: 2416.221+/-509.204 χ^2/NDF : 31.4/34

In: 2583.270+/-473.359 χ^2/NDF : 25.2/24

Out: 1469.180+/-468.445 χ^2/NDF : 27.3/28

All: 2020.413+/-332.965 χ^2/NDF : 55.3/53

dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1918.367+/-0.508 χ^2/NDF : 215592.7/15

Left Out: 1719.959+/-0.435 χ^2/NDF : 97506.1/9

Right Out: 1925.260+/-0.510 χ^2/NDF : 339095.4/18

Left In: 1761.287+/-0.445 χ^2/NDF : 18760.0/8

Left: 1740.168+/-0.311 χ^2/NDF : 120673.3/18

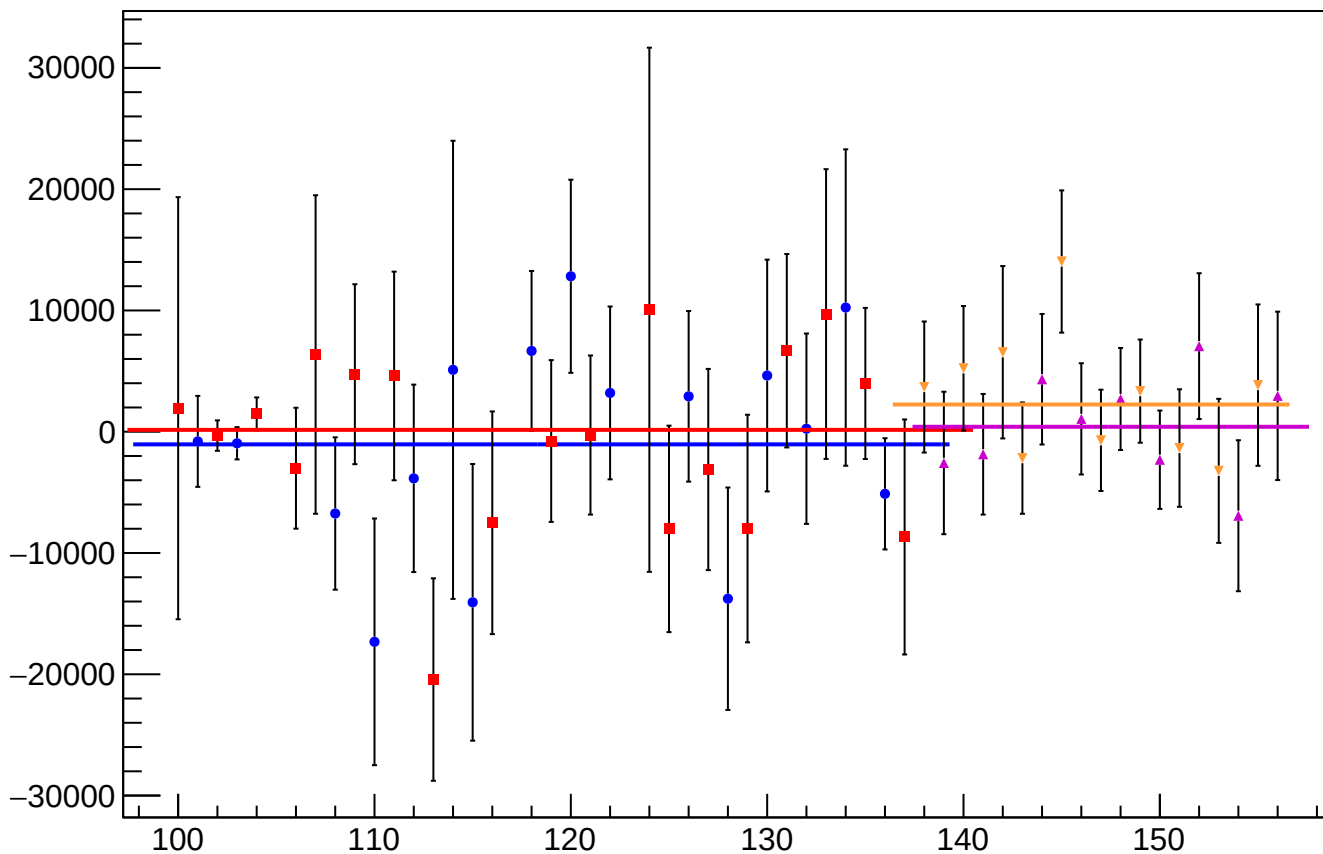
Right: 1921.799+/-0.360 χ^2/NDF : 554779.7/34

In: 1829.503+/-0.335 χ^2/NDF : 288460.7/24

Out: 1806.476+/-0.331 χ^2/NDF : 530329.5/28

All: 1817.866+/-0.235 χ^2/NDF : 821182.1/53

asym_atl1r2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.908 ± 1072.406 χ^2/NDF : 13.8/15

Left Out: 2246.530 ± 1633.924 χ^2/NDF : 7.8/9

Right Out: 153.619 ± 835.656 χ^2/NDF : 13.7/18

Left In: 408.567 ± 1707.572 χ^2/NDF : 4.5/8

Left: 1368.039 ± 1180.537 χ^2/NDF : 12.9/18

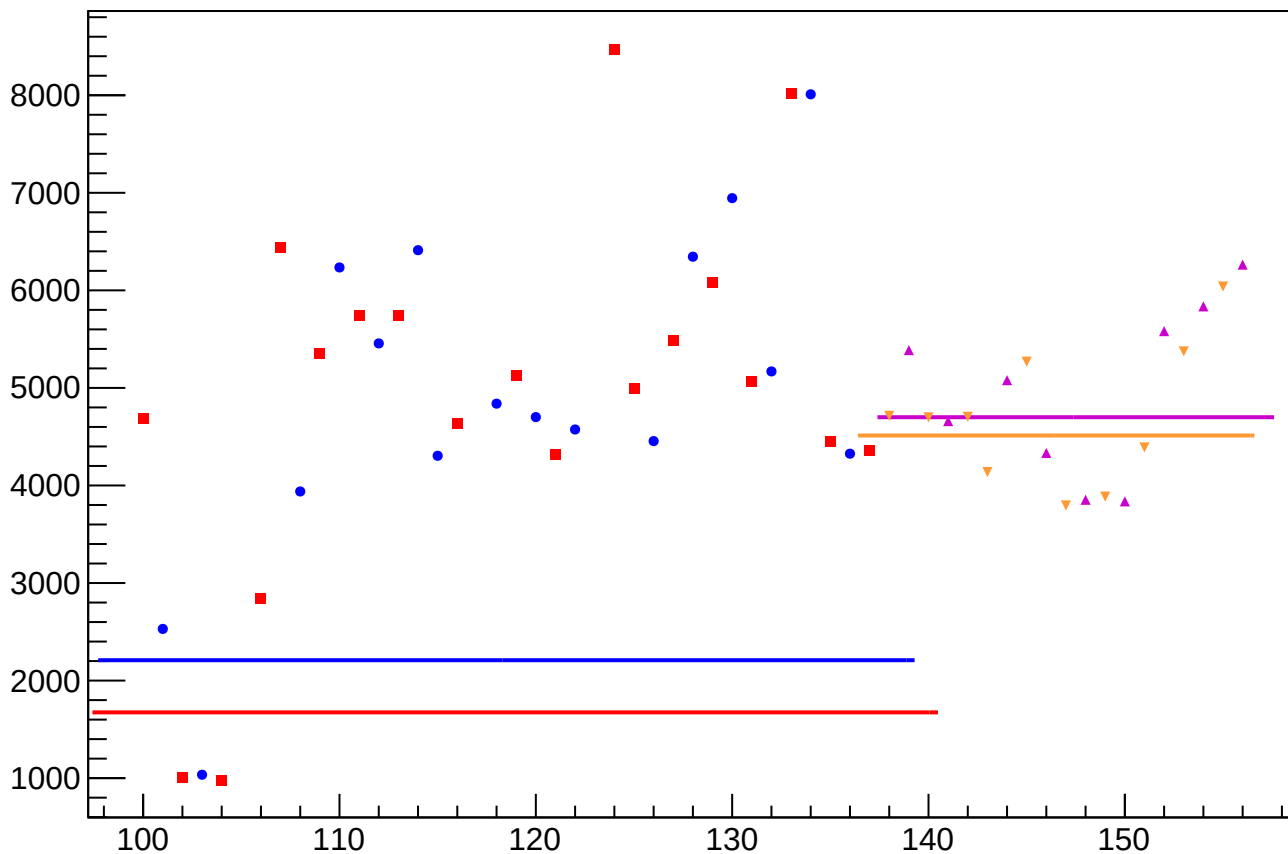
Right: -298.053 ± 659.161 χ^2/NDF : 28.3/34

In: -631.631 ± 908.160 χ^2/NDF : 18.9/24

Out: 587.560 ± 743.997 χ^2/NDF : 22.8/28

All: 97.922 ± 575.525 χ^2/NDF : 42.8/53

asym_atl1r2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 2208.912 $\pm$ 0.758 χ^2 /NDF: 5499011.4/15

Left Out: 4512.275 $\pm$ 1.155 χ^2 /NDF:304705.3/9

Right Out: 1674.162 $\pm$ 0.591 χ^2 /NDF: 6853212.9/18

Left In: 4699.702 $\pm$ 1.207 χ^2 /NDF:432842.2/8

Left: 4601.859 $\pm$ 0.835 χ^2 /NDF: 750126.1/18

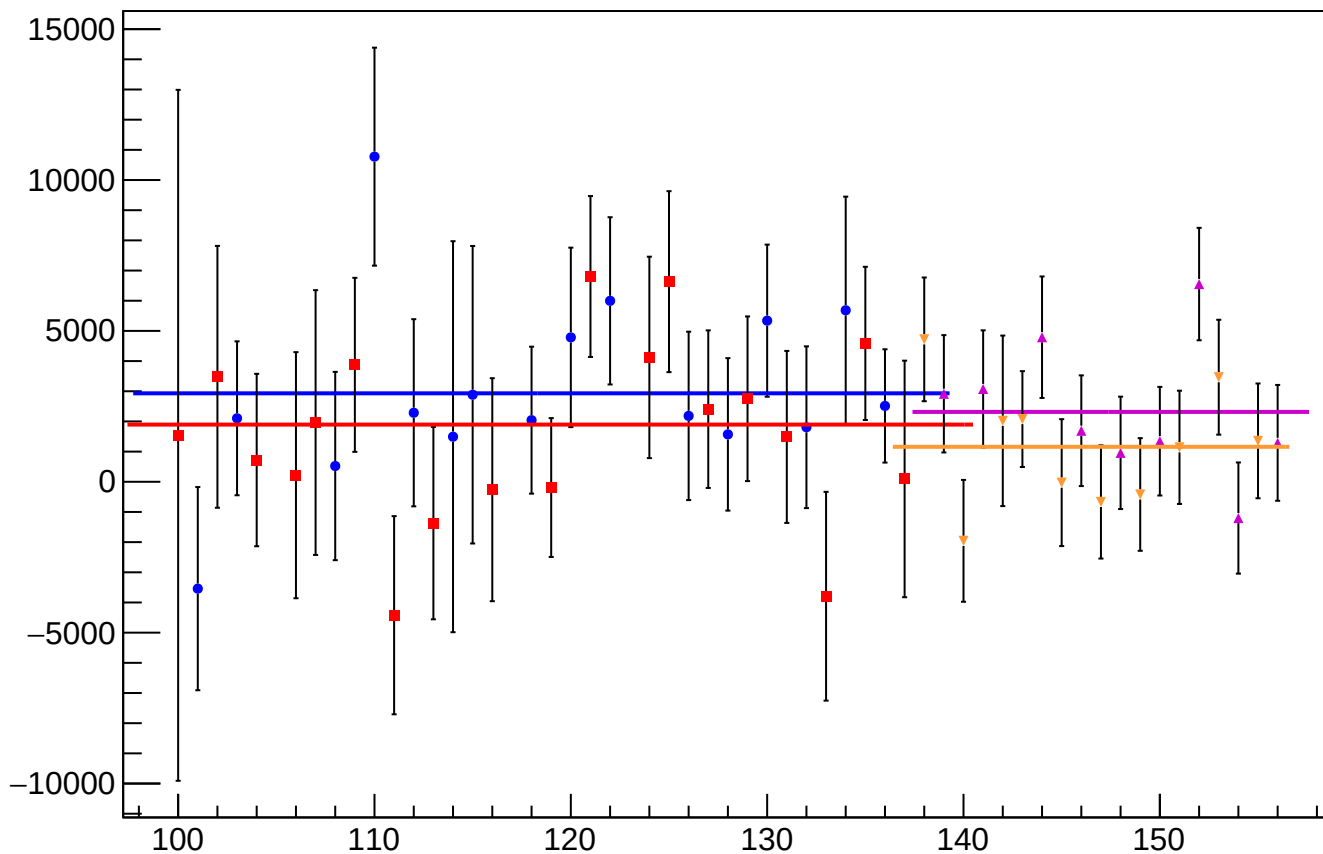
Right: 1876.192 $\pm$ 0.466 χ^2 /NDF: 12661639.3/34

In: 2913.449 $\pm$ 0.642 χ^2 /NDF:8983626.2/24

Out: 2262.611 $\pm$ 0.526 χ^2 /NDF:11941065.8/28

All: 2523.993 $\pm$ 0.407 χ^2 /NDF: 21539353.6/5

eigen_dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.693+/-718.305 χ^2/NDF : 13.0/15

Left Out: 1159.169+/-615.639 χ^2/NDF : 9.3/9

Right Out: 1895.508+/-721.953 χ^2/NDF : 17.4/18

Left In: 2315.805+/-629.343 χ^2/NDF : 11.8/8

Left: 1724.757+/-440.088 χ^2/NDF : 22.8/18

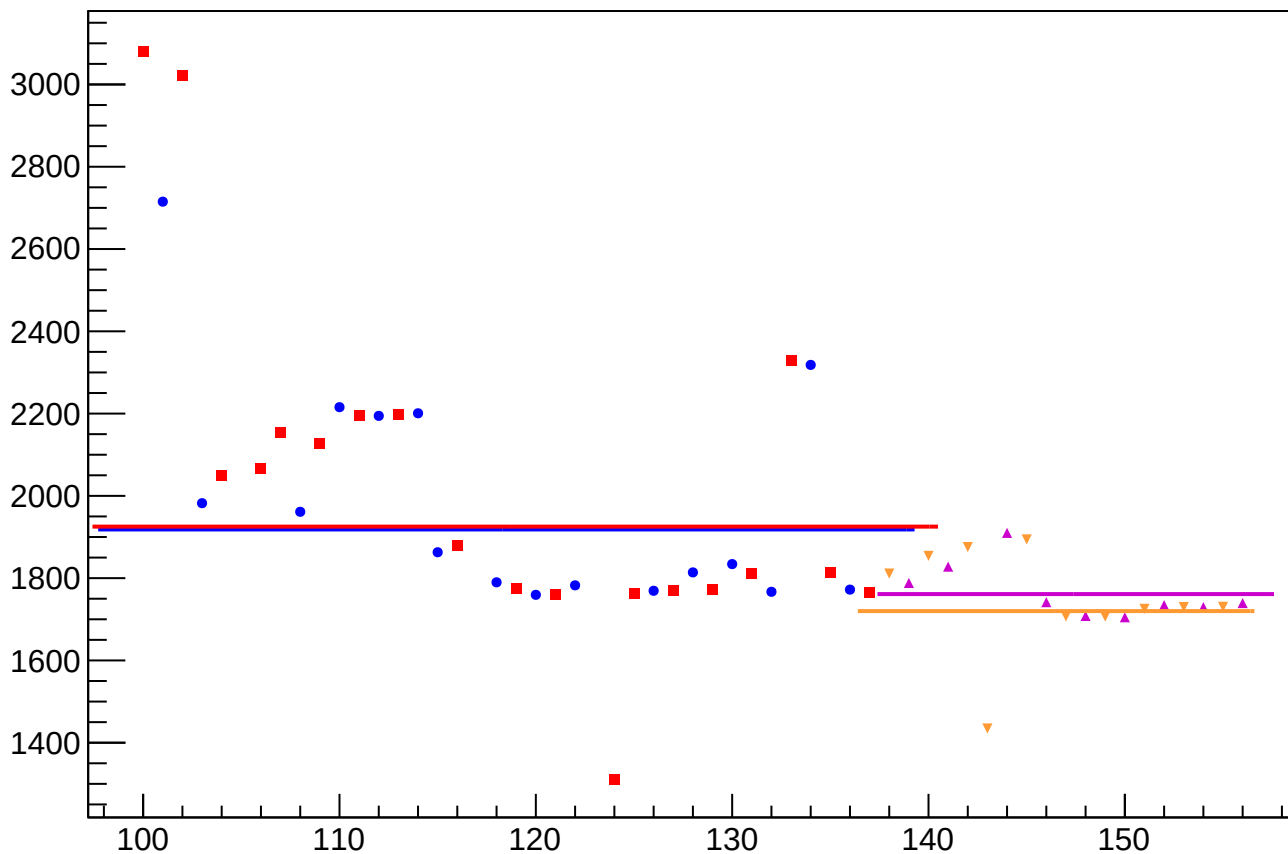
Right: 2416.225+/-509.203 χ^2/NDF : 31.4/34

In: 2583.269+/-473.359 χ^2/NDF : 25.2/24

Out: 1469.181+/-468.445 χ^2/NDF : 27.3/28

All: 2020.412+/-332.965 χ^2/NDF : 55.3/53

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: 1719.960 $\pm$ 0.435 χ^2 /NDF: 97505.2/9

Right Out: 1925.259 $\pm$ 0.510 χ^2 /NDF: 339094.4/18

Left In: 1761.288 $\pm$ 0.445 χ^2 /NDF: 18760.0/8

Left: 1740.169 $\pm$ 0.311 χ^2 /NDF: 120672.3/18

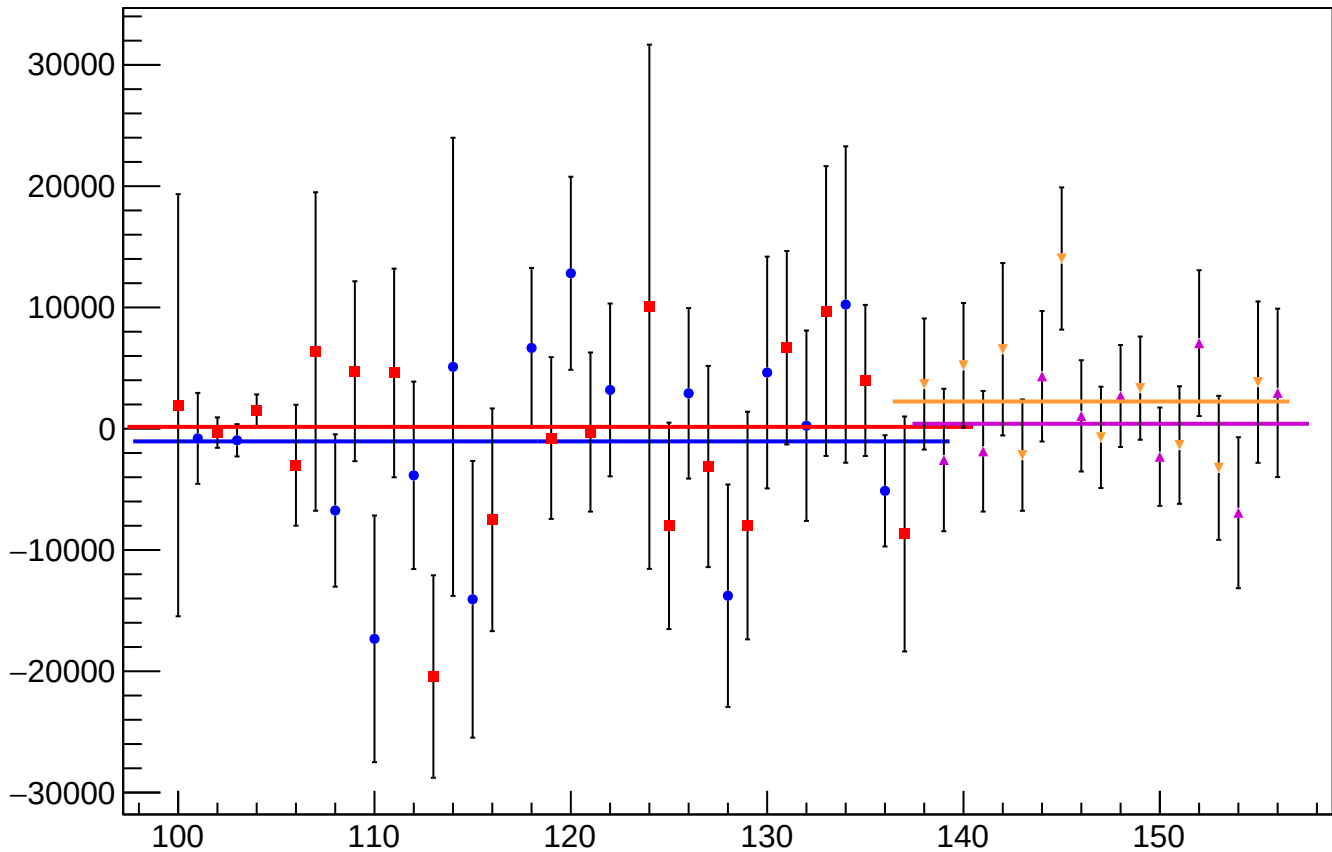
Right: 1921.798 $\pm$ 0.360 χ^2 /NDF: 554778.8/34

In: 1829.503 $\pm$ 0.335 χ^2 /NDF: 288459.9/24

Out: 1806.477 $\pm$ 0.331 χ^2 /NDF: 530326.2/28

All: 1817.866 $\pm$ 0.235 χ^2 /NDF: 821177.8/53

asym_atl1r2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.906 ± 1072.405 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 2246.529 ± 1633.926 $\chi^2/\text{NDF}: 7.8/9$

Right Out: 153.614 ± 835.655 $\chi^2/\text{NDF}: 13.7/18$

Left In: 408.564 ± 1707.574 $\chi^2/\text{NDF}: 4.5/8$

Left: 1368.037 ± 1180.538 $\chi^2/\text{NDF}: 12.9/18$

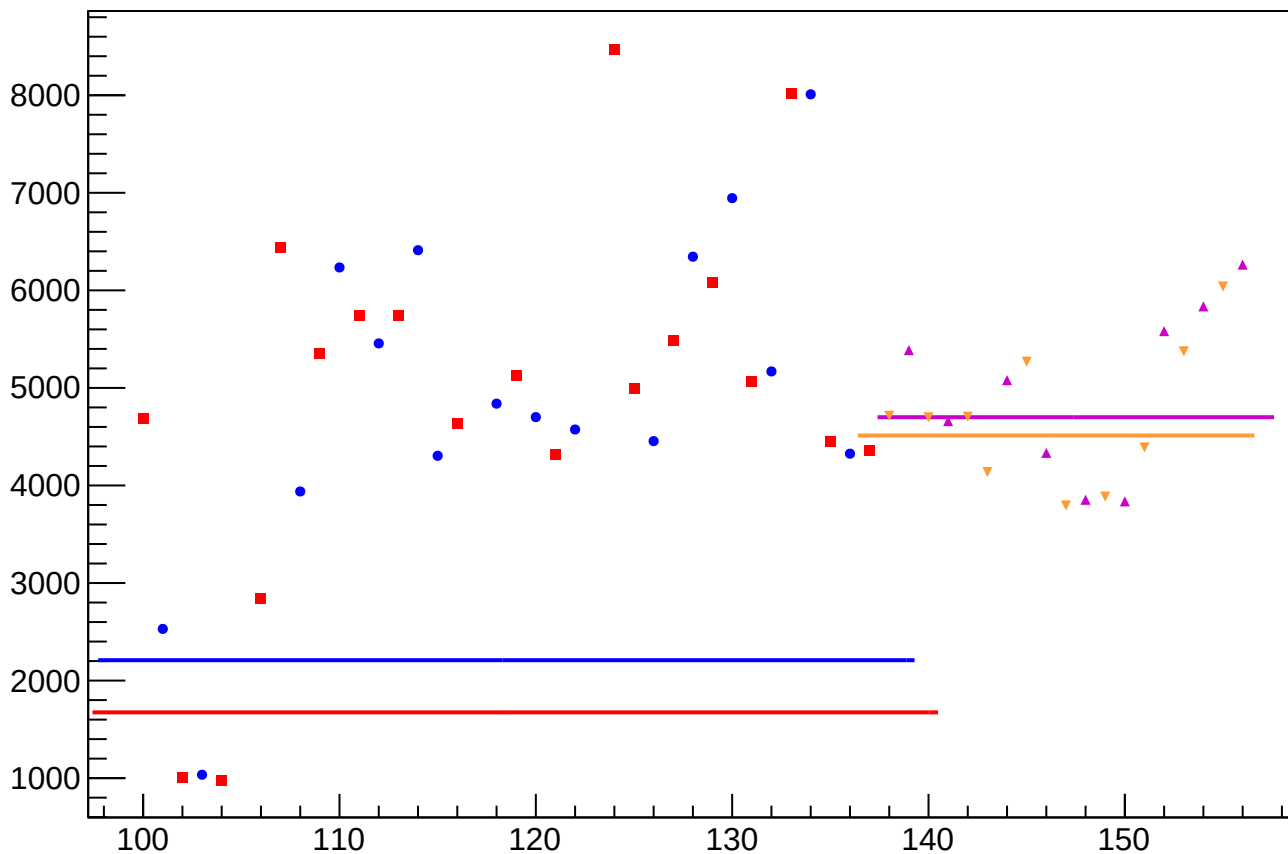
Right: -298.056 ± 659.161 $\chi^2/\text{NDF}: 28.3/34$

In: -631.632 ± 908.160 $\chi^2/\text{NDF}: 18.9/24$

Out: 587.554 ± 743.997 $\chi^2/\text{NDF}: 22.8/28$

All: 97.918 ± 575.524 $\chi^2/\text{NDF}: 42.8/53$

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: 4512.281+/-1.155 χ^2/NDF : 304703.9/9

Right Out: 1674.162+/-0.591 χ^2/NDF : 6853204.8/18

Left In: 4699.709+/-1.207 χ^2/NDF : 432839.7/8

Left: 4601.866+/-0.835 χ^2/NDF : 750122.1/18

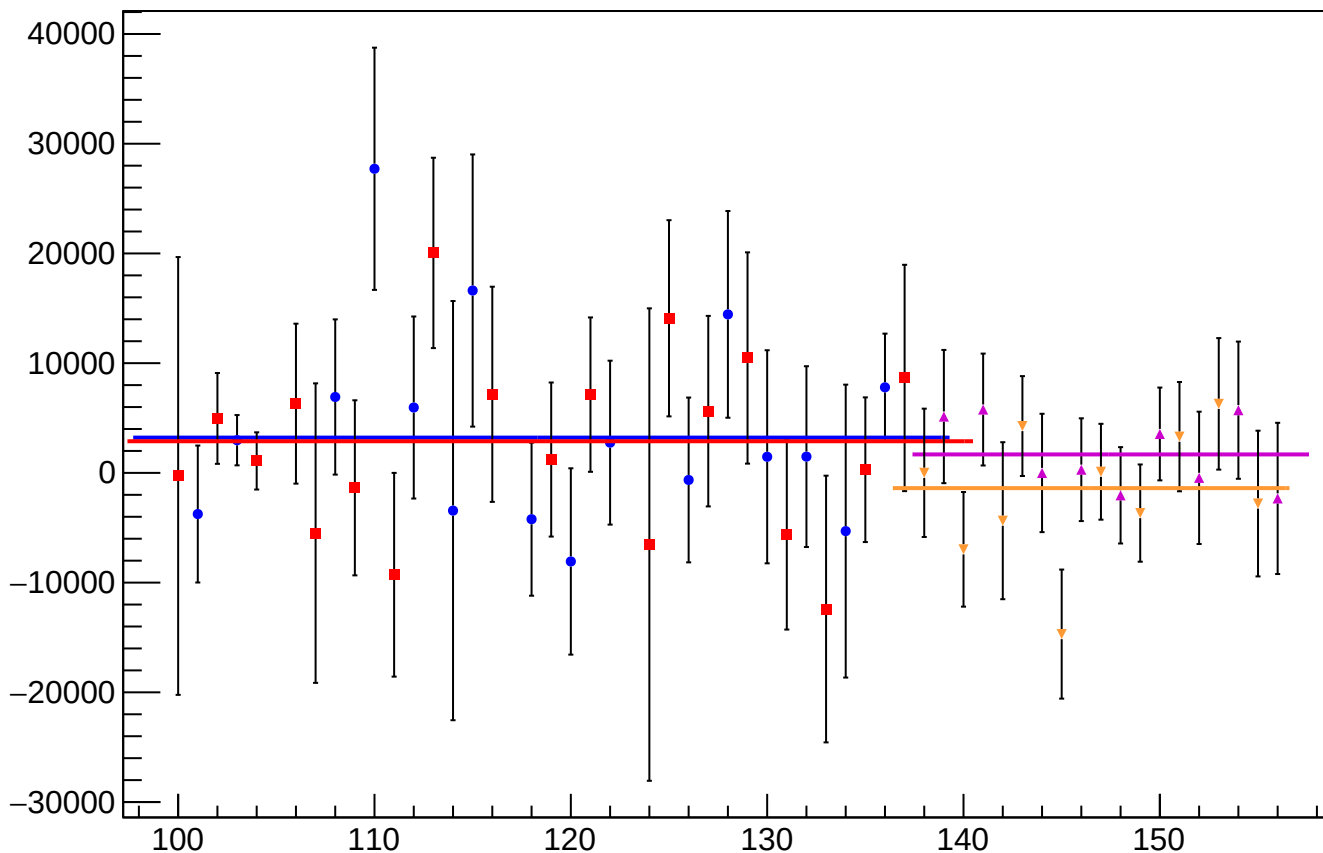
Right: 1876.191+/-0.466 χ^2/NDF : 12661624.0/34

In: 2913.448+/-0.642 χ^2/NDF : 8983629.6/24

Out: 2262.610+/-0.526 χ^2/NDF : 11941069.7/28

All: 2523.992+/-0.407 χ^2/NDF : 21539361.0/5

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 3215.695+/-1539.262 χ^2/NDF : 13.8/15

Left Out: -1388.156+/-1674.194 χ^2/NDF : 11.0/9

Right Out: 2883.411+/-1552.120 χ^2/NDF : 13.4/18

Left In: 1683.702+/-1747.406 χ^2/NDF : 2.9/8

Left: 82.074+/-1208.888 χ^2/NDF : 15.5/18

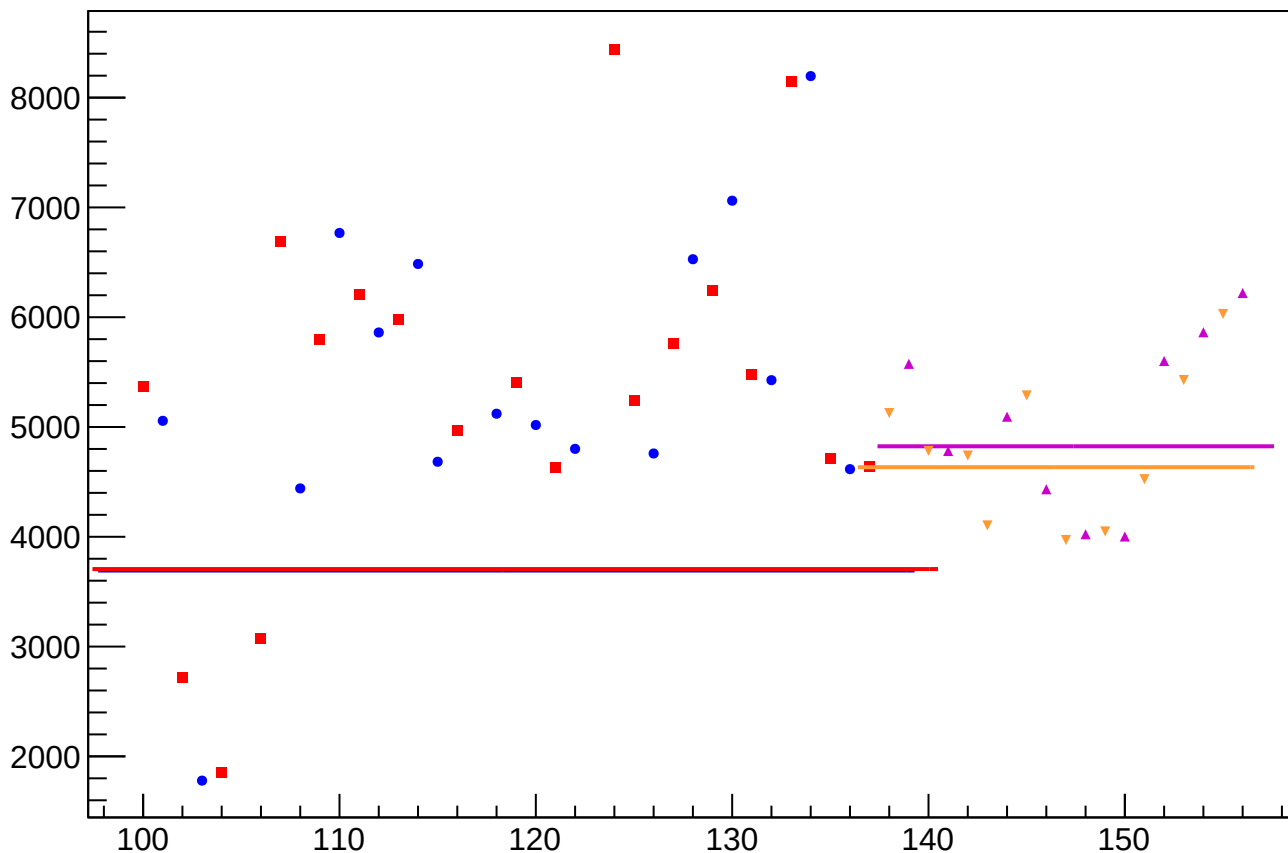
Right: 3050.935+/-1092.940 χ^2/NDF : 27.2/34

In: 2546.332+/-1155.038 χ^2/NDF : 17.2/24

Out: 909.019+/-1138.227 χ^2/NDF : 27.9/28

All: 1715.673+/-810.726 χ^2/NDF : 46.1/53

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3692.815 $\pm$ 1.088 χ^2 /NDF: 2885658.0/15

Left Out: 4634.011 $\pm$ 1.184 χ^2 /NDF: 273558.0/9

Right Out: 3706.081 $\pm$ 1.087 χ^2 /NDF: 2684528.0/18

Left In: 4824.244 $\pm$ 1.236 χ^2 /NDF: 362290.7/8

Left: 4725.059 $\pm$ 0.855 χ^2 /NDF: 648207.5/18

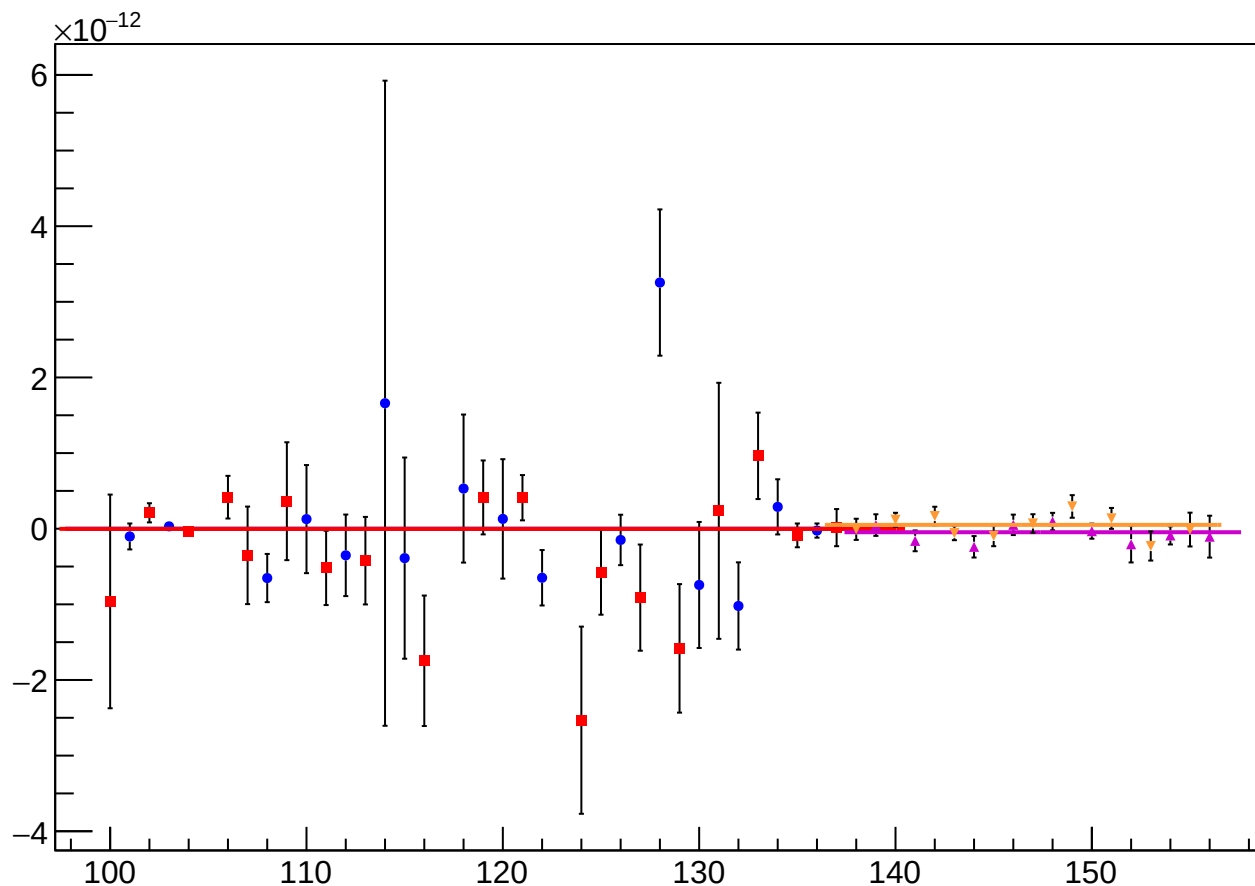
Right: 3699.460 $\pm$ 0.769 χ^2 /NDF: 5570260.4/34

In: 4187.163 $\pm$ 0.817 χ^2 /NDF: 3720082.0/24

Out: 4130.362 $\pm$ 0.800 χ^2 /NDF: 3291559.9/28

All: 4158.192 $\pm$ 0.572 χ^2 /NDF: 7014108.8/53

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 : 9.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.6/8

Left: 0.000+/-0.000 χ^2/NDF : 17.5/18

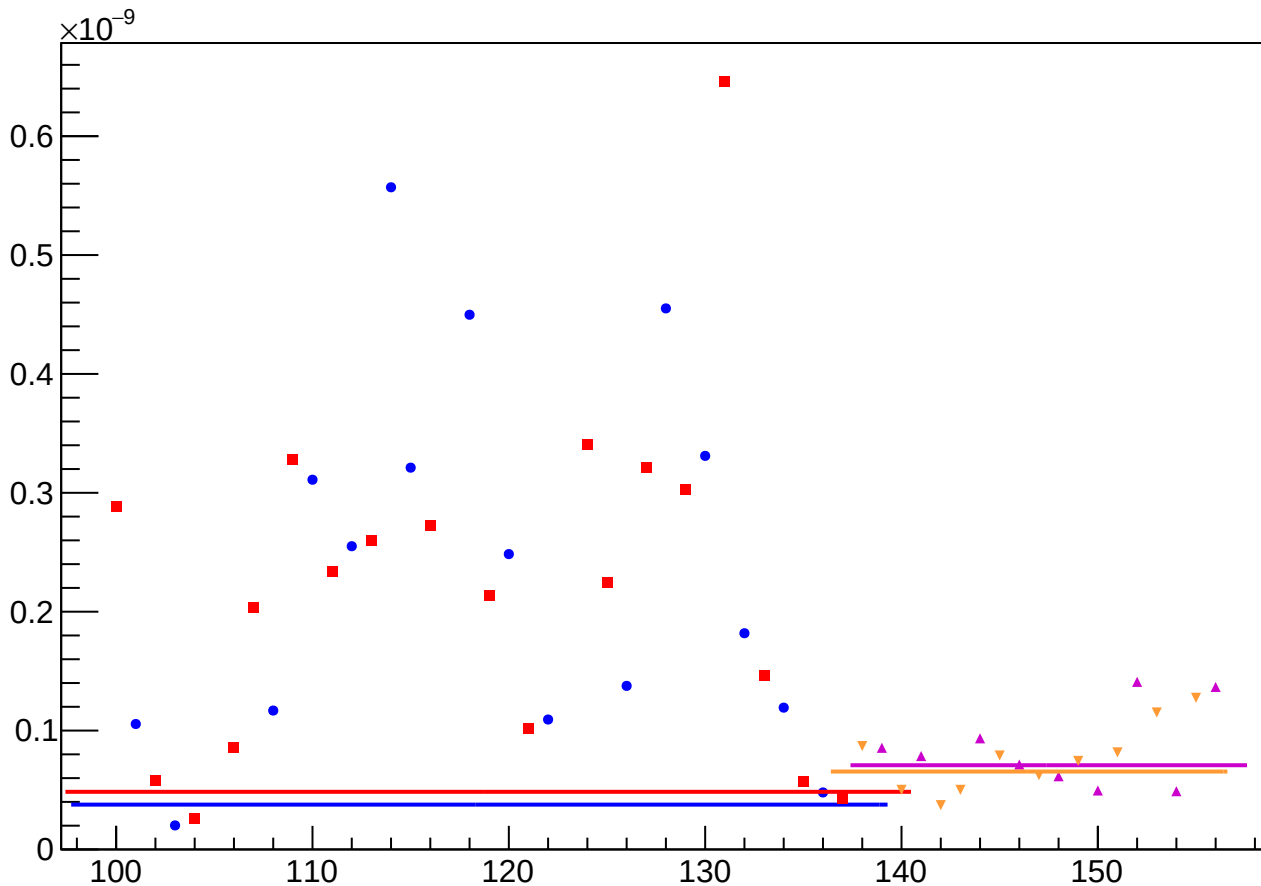
Right: -0.000+/-0.000 χ^2/NDF : 53.6/34

In: -0.000+/-0.000 χ^2/NDF : 31.6/24

Out: 0.000+/-0.000 χ^2/NDF : 38.4/28

All: 0.000+/-0.000 χ^2/NDF : 71.2/53

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 : 604592.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2895431.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 530924.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1150727.9/18

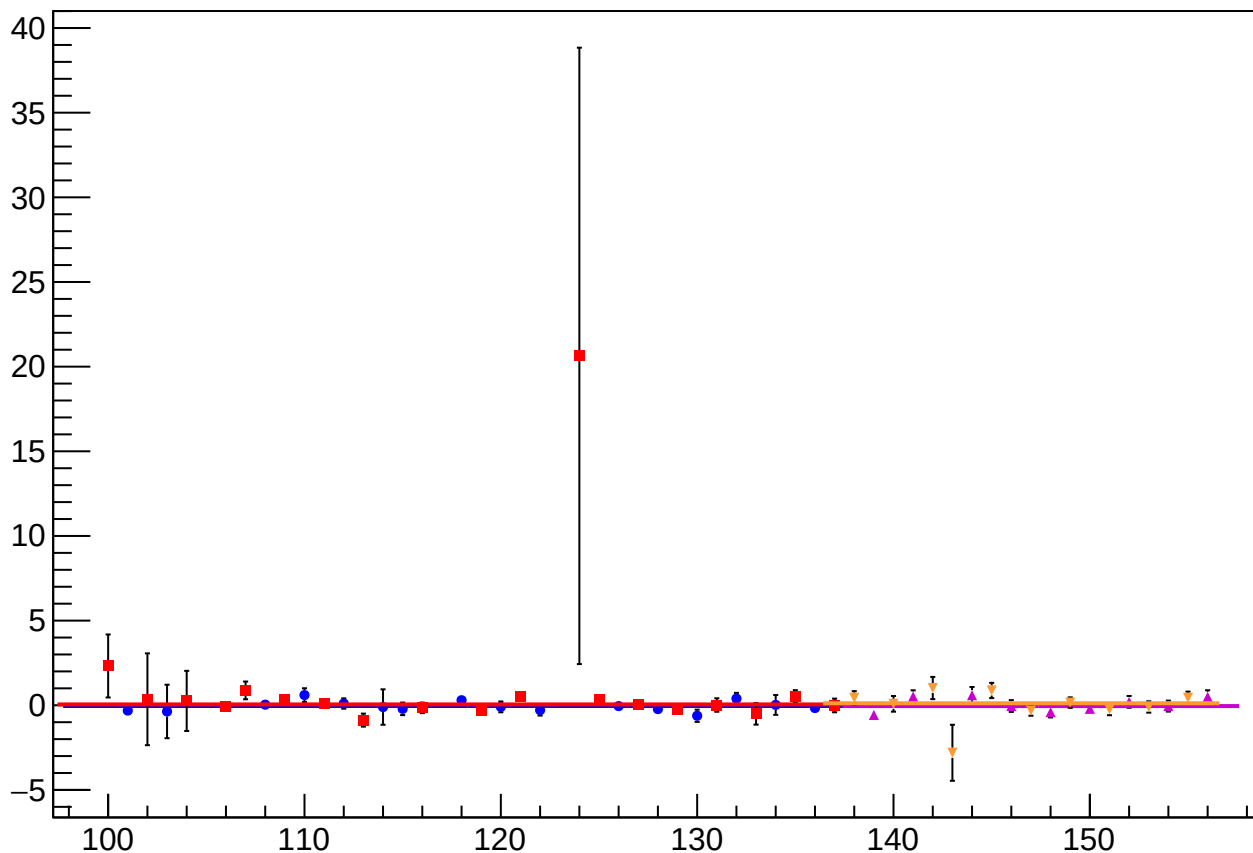
Right: 0.000+/-0.000 χ^2/NDF : 6105820.7/34

In: 0.000+/-0.000 χ^2/NDF : 4318848.5/24

Out: 0.000+/-0.000 χ^2/NDF : 3659991.1/28

All: 0.000+/-0.000 χ^2/NDF : 8041749.4/53

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: 0.118 ± 0.124 χ^2/NDF : 12.8/9

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.048 ± 0.112 χ^2/NDF : 11.8/8

Left: 0.027 ± 0.083 χ^2/NDF : 25.6/18

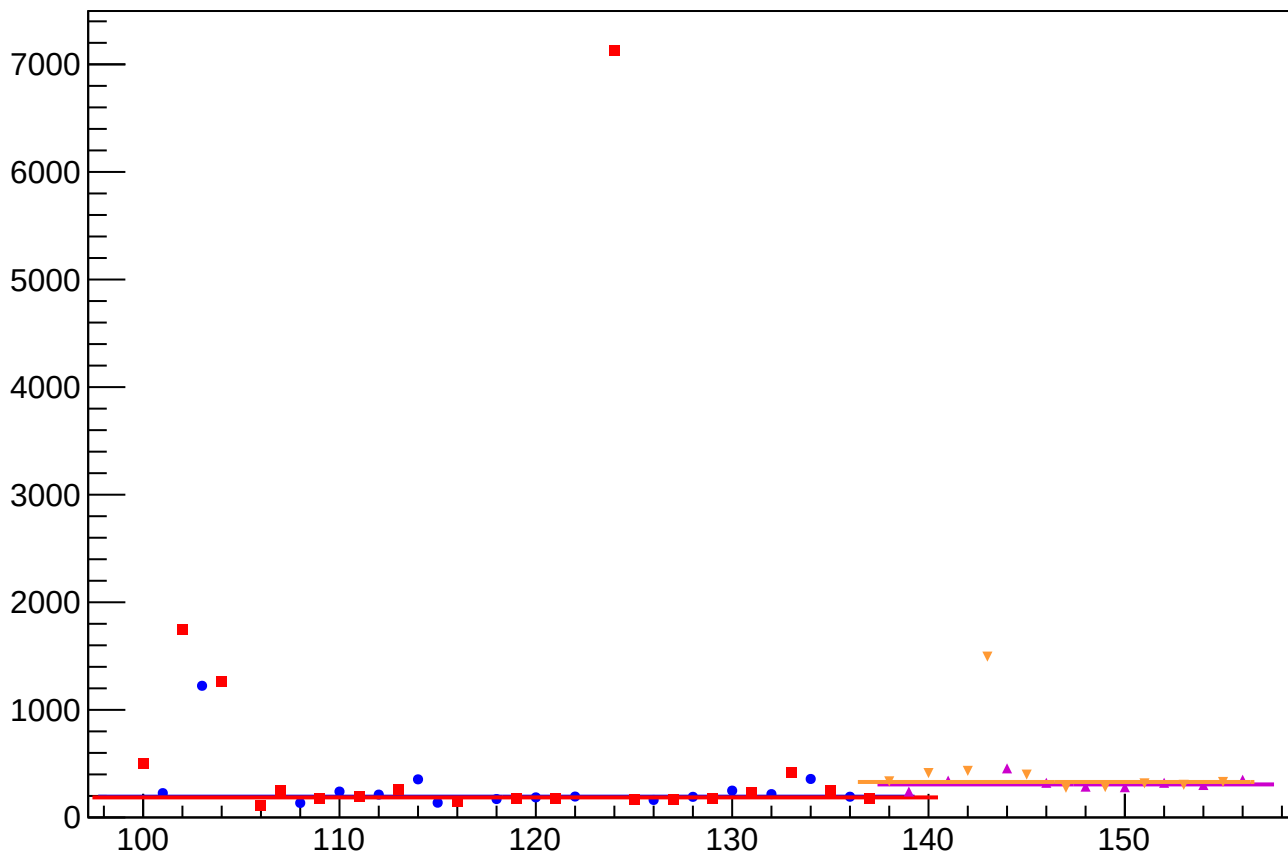
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.043 ± 0.064 χ^2/NDF : 23.6/24

Out: 0.069 ± 0.067 χ^2/NDF : 36.0/28

All: 0.011 ± 0.046 χ^2/NDF : 61.1/53

asym_atl1r2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.248 $\pm$ 0.055 χ^2/NDF : 1408397.0/15

Left Out: 329.781 $\pm$ 0.088 χ^2/NDF : 1277691.5/9

Right Out: 186.379 $\pm$ 0.056 χ^2/NDF : 2479083.9/18

Left In: 307.087 $\pm$ 0.079 χ^2/NDF : 382307.1/8

Left: 317.296 $\pm$ 0.059 χ^2/NDF : 1696659.5/18

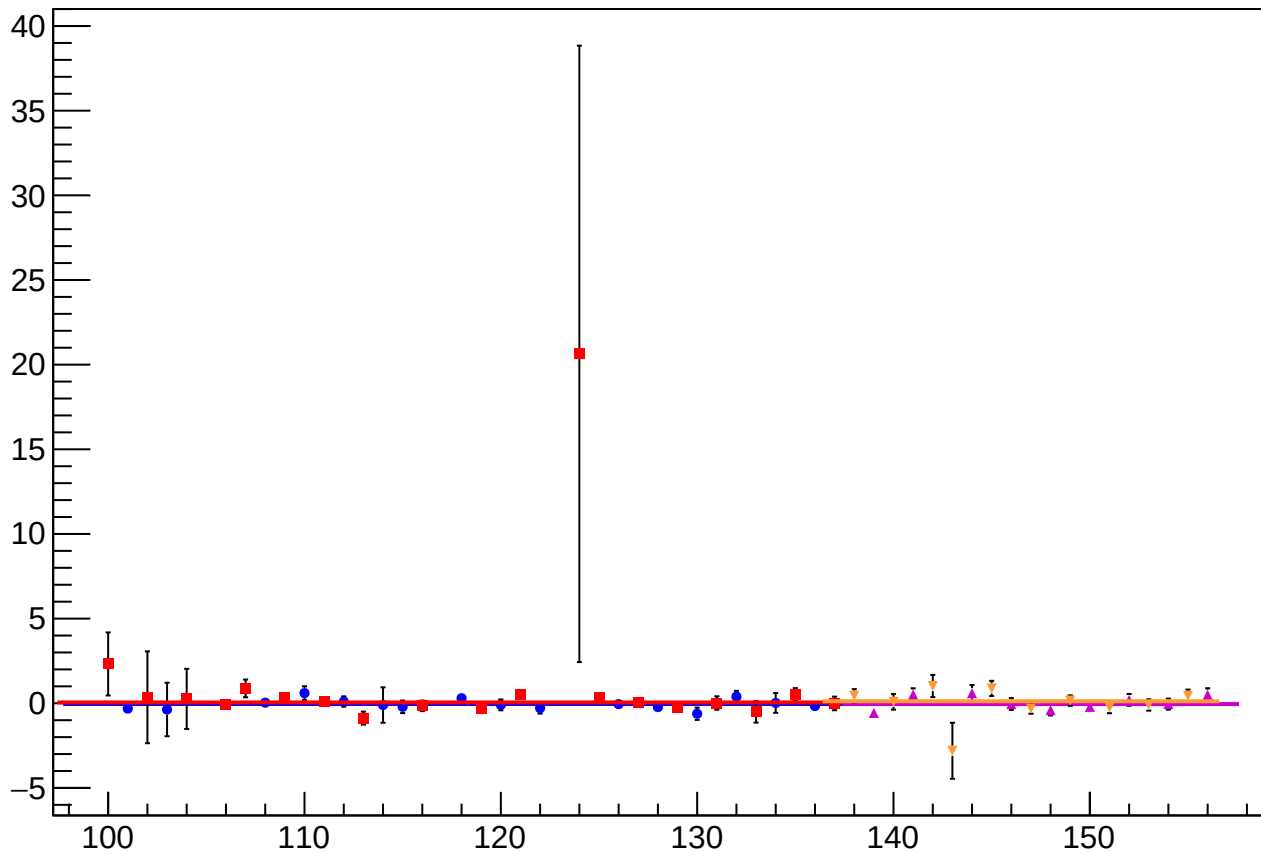
Right: 189.859 $\pm$ 0.039 χ^2/NDF : 3895183.9/34

In: 230.085 $\pm$ 0.045 χ^2/NDF : 3177932.4/24

Out: 227.469 $\pm$ 0.047 χ^2/NDF : 5655101.7/28

All: 228.829 $\pm$ 0.033 χ^2/NDF : 8834641.0/53

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: 0.118 ± 0.124 χ^2/NDF : 12.8/9

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.048 ± 0.112 χ^2/NDF : 11.8/8

Left: 0.027 ± 0.083 χ^2/NDF : 25.6/18

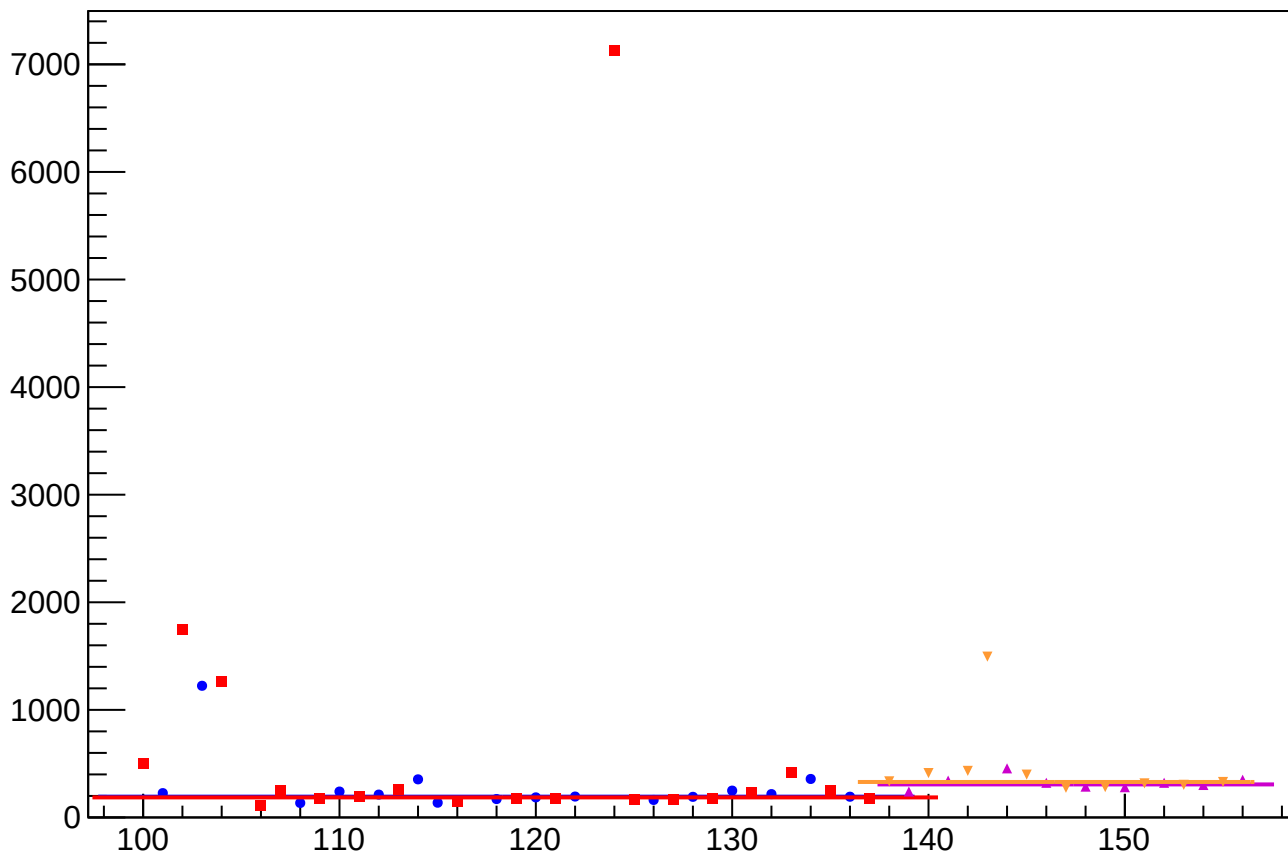
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.043 ± 0.064 χ^2/NDF : 23.6/24

Out: 0.069 ± 0.067 χ^2/NDF : 36.0/28

All: 0.011 ± 0.046 χ^2/NDF : 61.1/53

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: 329.781+/-0.088 χ^2/NDF : 1277691.5/9

Right Out: 186.379+/-0.056 χ^2/NDF : 2479083.9/18

Left In: 307.087+/-0.079 χ^2/NDF : 382307.1/8

Left: 317.296+/-0.059 χ^2/NDF : 1696659.5/18

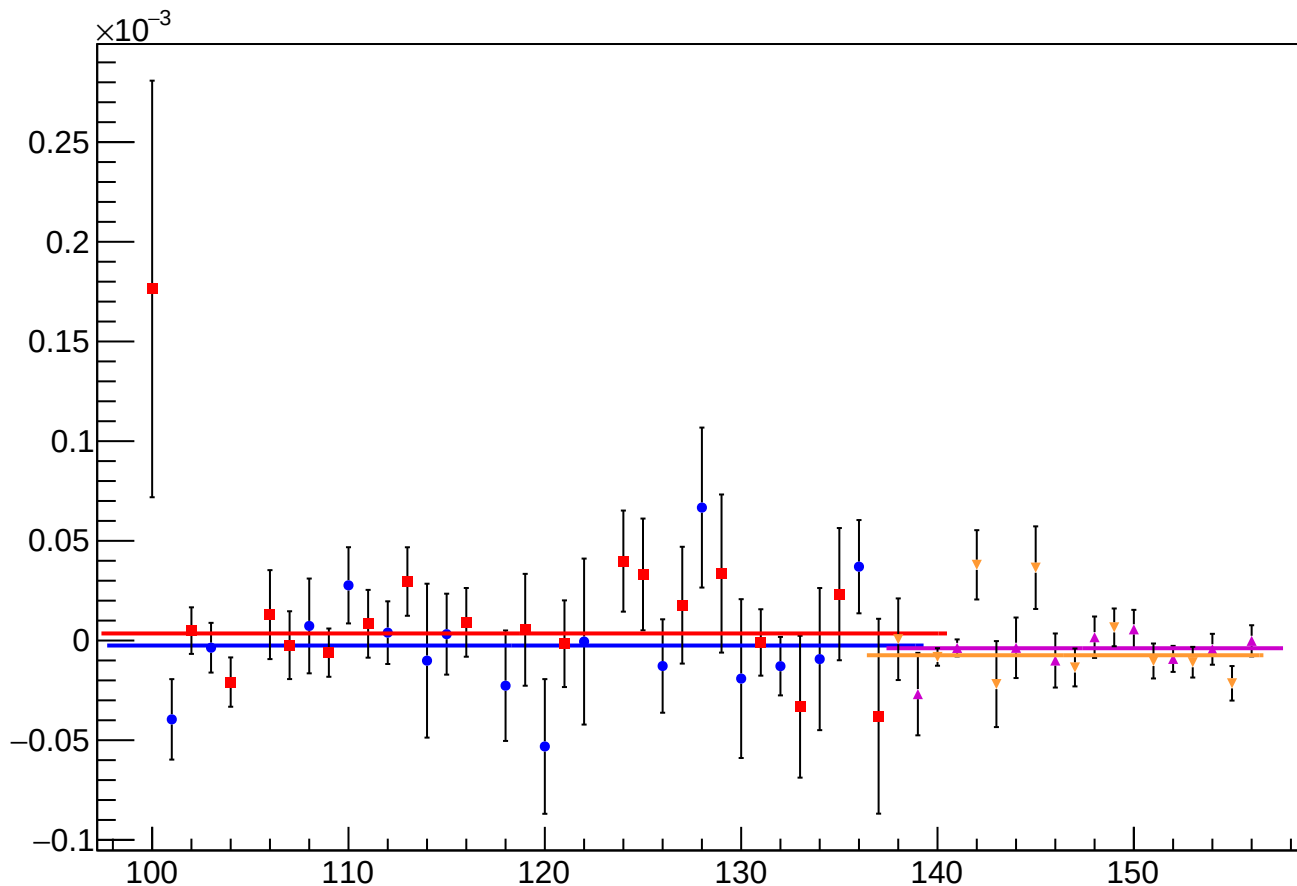
Right: 189.859+/-0.039 χ^2/NDF : 3895183.9/34

In: 230.085+/-0.045 χ^2/NDF : 3177932.4/24

Out: 227.469+/-0.047 χ^2/NDF : 5655101.7/28

All: 228.829+/-0.033 χ^2/NDF : 8834641.0/53

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 : 17.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 16.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.6/8

Left: -0.000+/-0.000 χ^2/NDF : 21.9/18

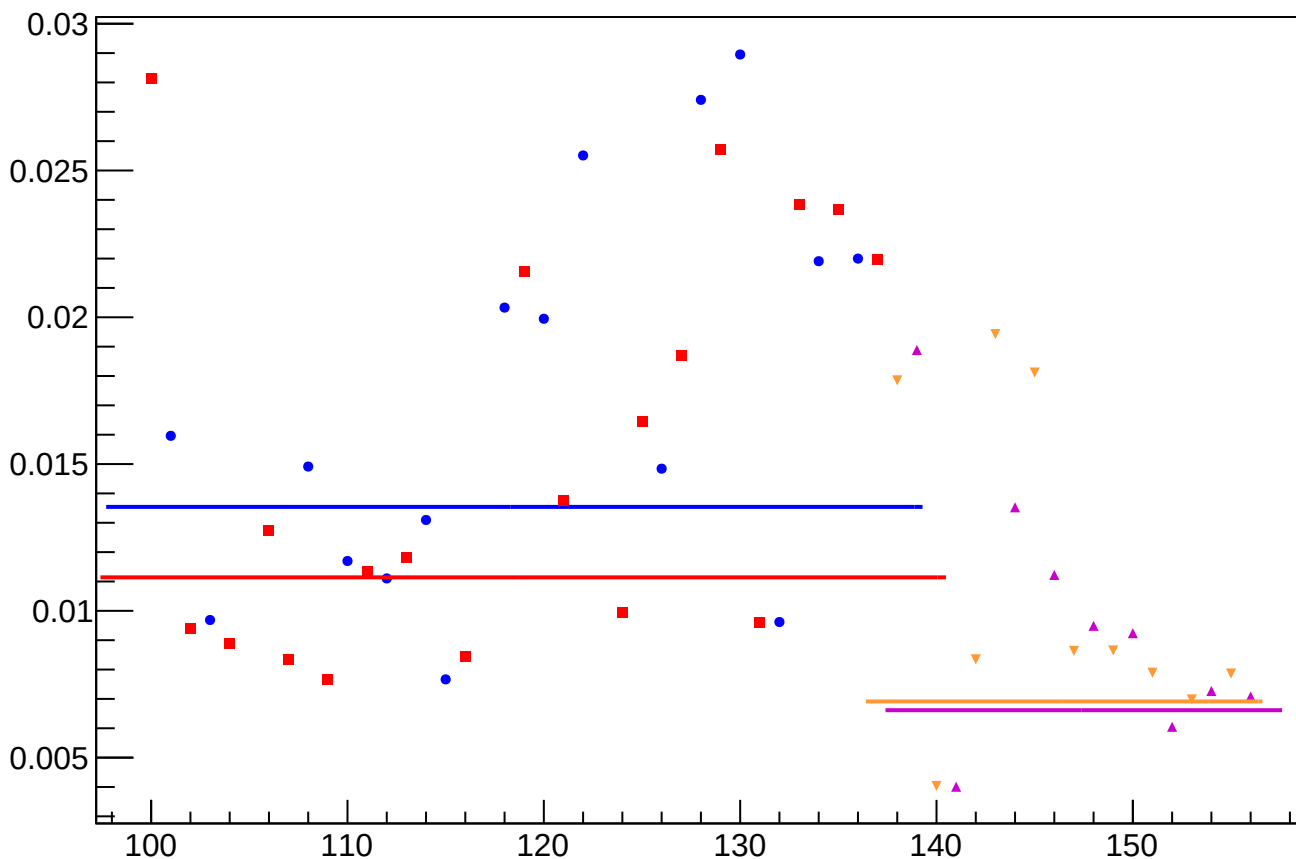
Right: 0.000+/-0.000 χ^2/NDF : 32.9/34

In: -0.000+/-0.000 χ^2/NDF : 19.5/24

Out: -0.000+/-0.000 χ^2/NDF : 38.1/28

All: -0.000+/-0.000 χ^2/NDF : 57.6/53

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: 0.007+/-0.000 χ^2/NDF : 2881929.6/9

Right Out: 0.011+/-0.000 χ^2/NDF : 1887740.8/18

Left In: 0.007+/-0.000 χ^2/NDF : 2430397.6/8

Left: 0.007+/-0.000 χ^2/NDF : 5324328.6/18

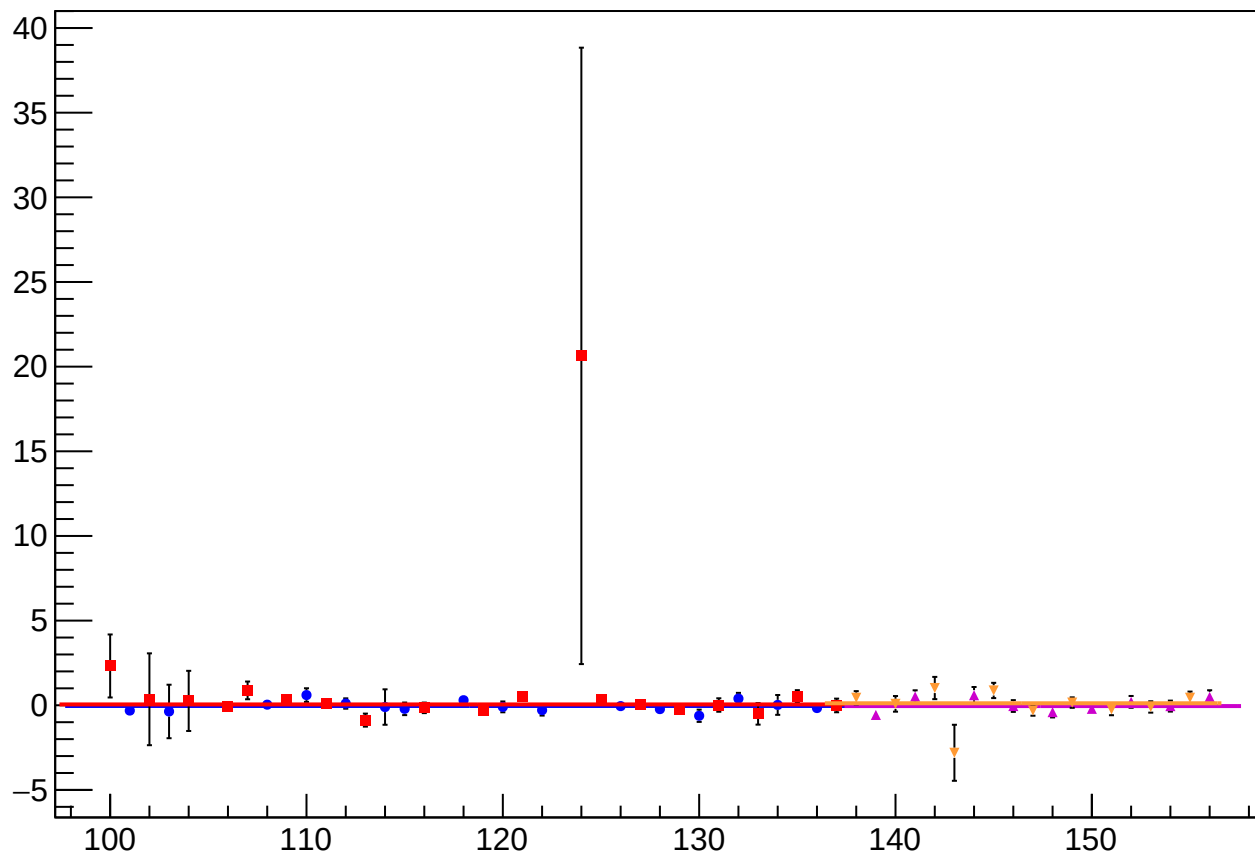
Right: 0.012+/-0.000 χ^2/NDF : 3997435.7/34

In: 0.008+/-0.000 χ^2/NDF : 6921127.5/24

Out: 0.008+/-0.000 χ^2/NDF : 6056286.3/28

All: 0.008+/-0.000 χ^2/NDF : 12982955.0/53

asym_atl1r2_avg_eigen_dit_vs_Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.118 ± 0.124 χ^2/NDF : 12.8/9

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.048 ± 0.112 χ^2/NDF : 11.8/8

Left: 0.027 ± 0.083 χ^2/NDF : 25.6/18

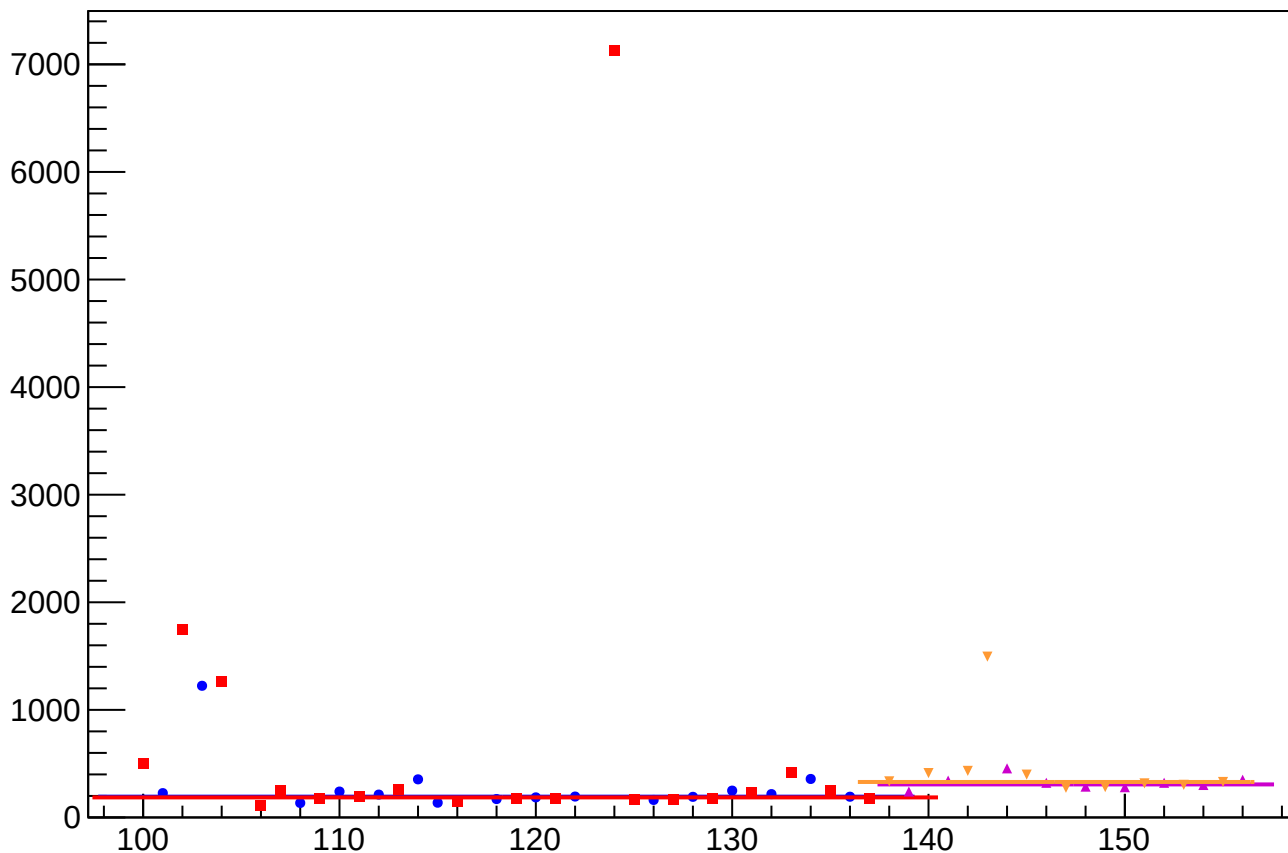
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.043 ± 0.064 χ^2/NDF : 23.6/24

Out: 0.069 ± 0.067 χ^2/NDF : 36.0/28

All: 0.011 ± 0.046 χ^2/NDF : 61.1/53

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: 329.785+/-0.088 χ^2/NDF : 1277665.5/9

Right Out: 186.376+/-0.056 χ^2/NDF : 2479113.1/18

Left In: 307.091+/-0.079 χ^2/NDF : 382283.1/8

Left: 317.299+/-0.059 χ^2/NDF : 1696607.9/18

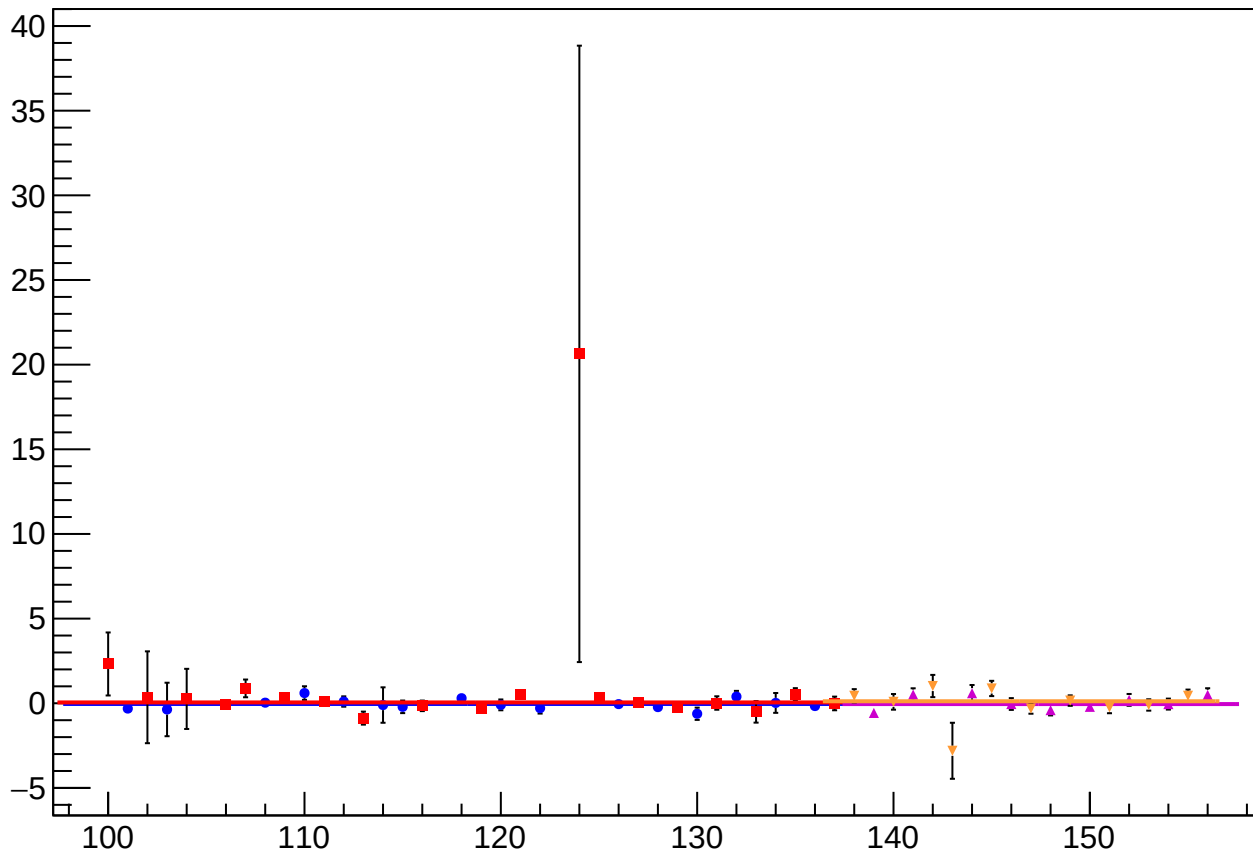
Right: 189.857+/-0.039 χ^2/NDF : 3895208.3/34

In: 230.084+/-0.045 χ^2/NDF : 3178017.5/24

Out: 227.467+/-0.047 χ^2/NDF : 5655242.7/28

All: 228.828+/-0.033 χ^2/NDF : 8834868.4/53

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: 0.118 ± 0.124 χ^2/NDF : 12.8/9

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.048 ± 0.112 χ^2/NDF : 11.8/8

Left: 0.027 ± 0.083 χ^2/NDF : 25.6/18

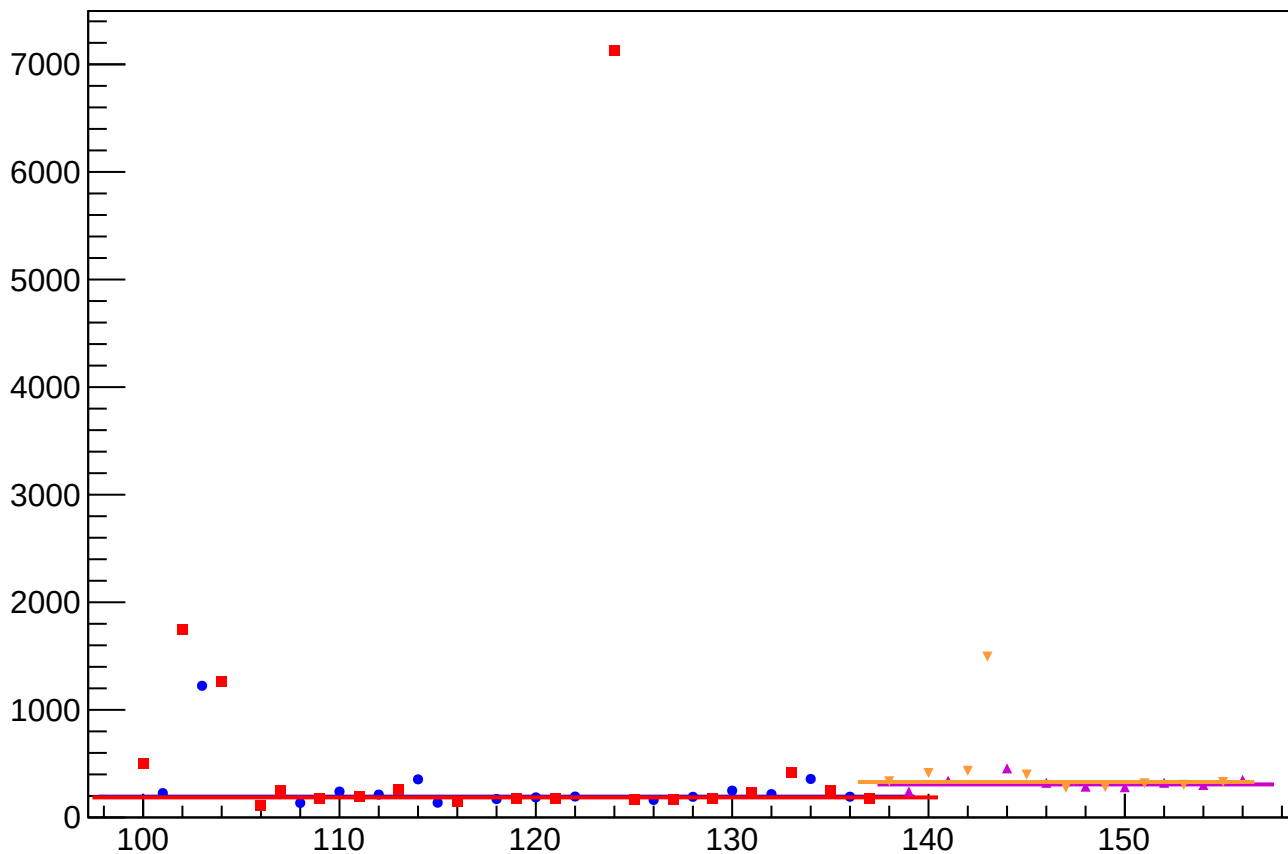
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.043 ± 0.064 χ^2/NDF : 23.6/24

Out: 0.069 ± 0.067 χ^2/NDF : 36.0/28

All: 0.011 ± 0.046 χ^2/NDF : 61.1/53

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: 329.785+/-0.088 χ^2/NDF : 1277665.5/9

Right Out: 186.376+/-0.056 χ^2/NDF : 2479113.1/18

Left In: 307.091+/-0.079 χ^2/NDF : 382283.1/8

Left: 317.299+/-0.059 χ^2/NDF : 1696607.9/18

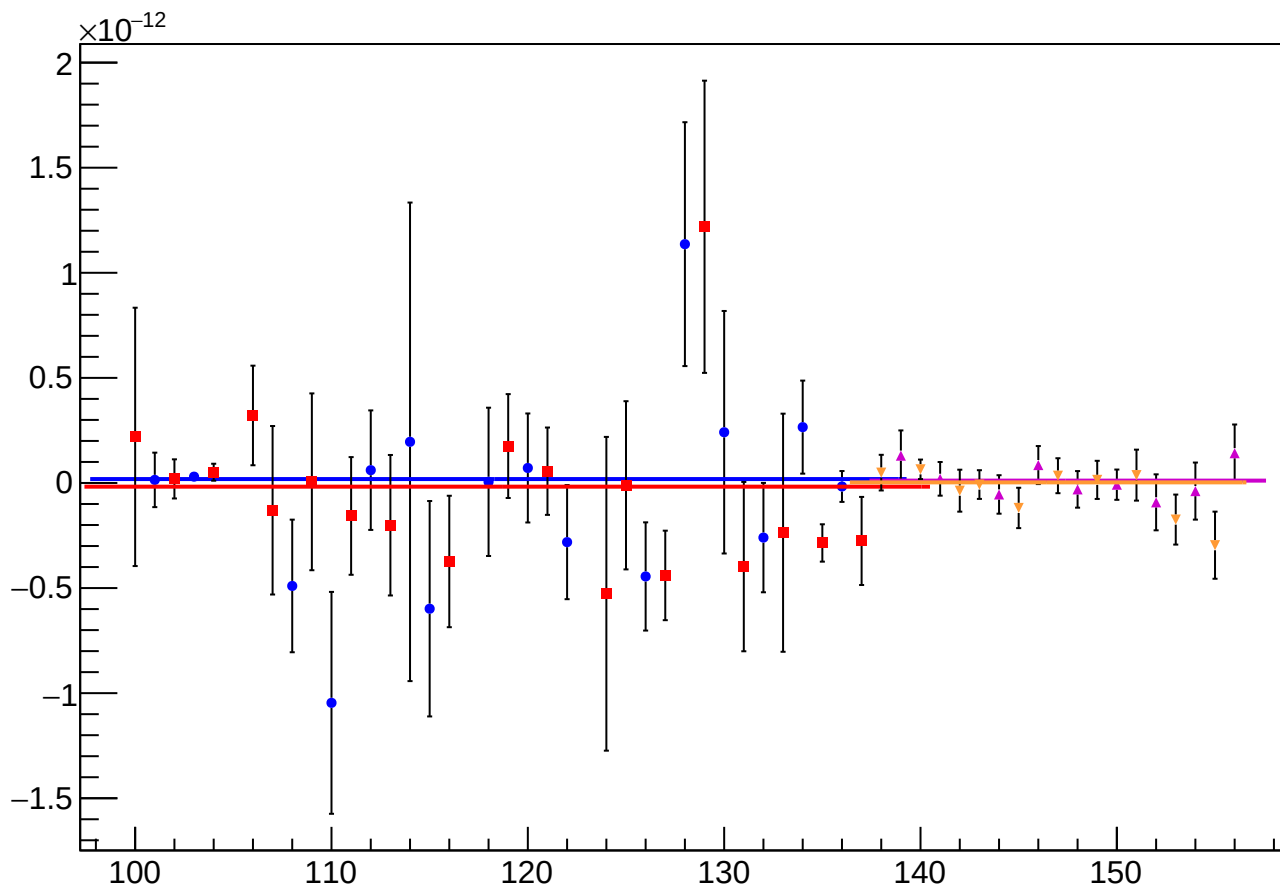
Right: 189.857+/-0.039 χ^2/NDF : 3895208.3/34

In: 230.084+/-0.045 χ^2/NDF : 3178017.5/24

Out: 227.467+/-0.047 χ^2/NDF : 5655242.7/28

All: 228.828+/-0.033 χ^2/NDF : 8834868.4/53

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 : 9.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 27.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.1/8

Left: 0.000+/-0.000 χ^2/NDF : 14.0/18

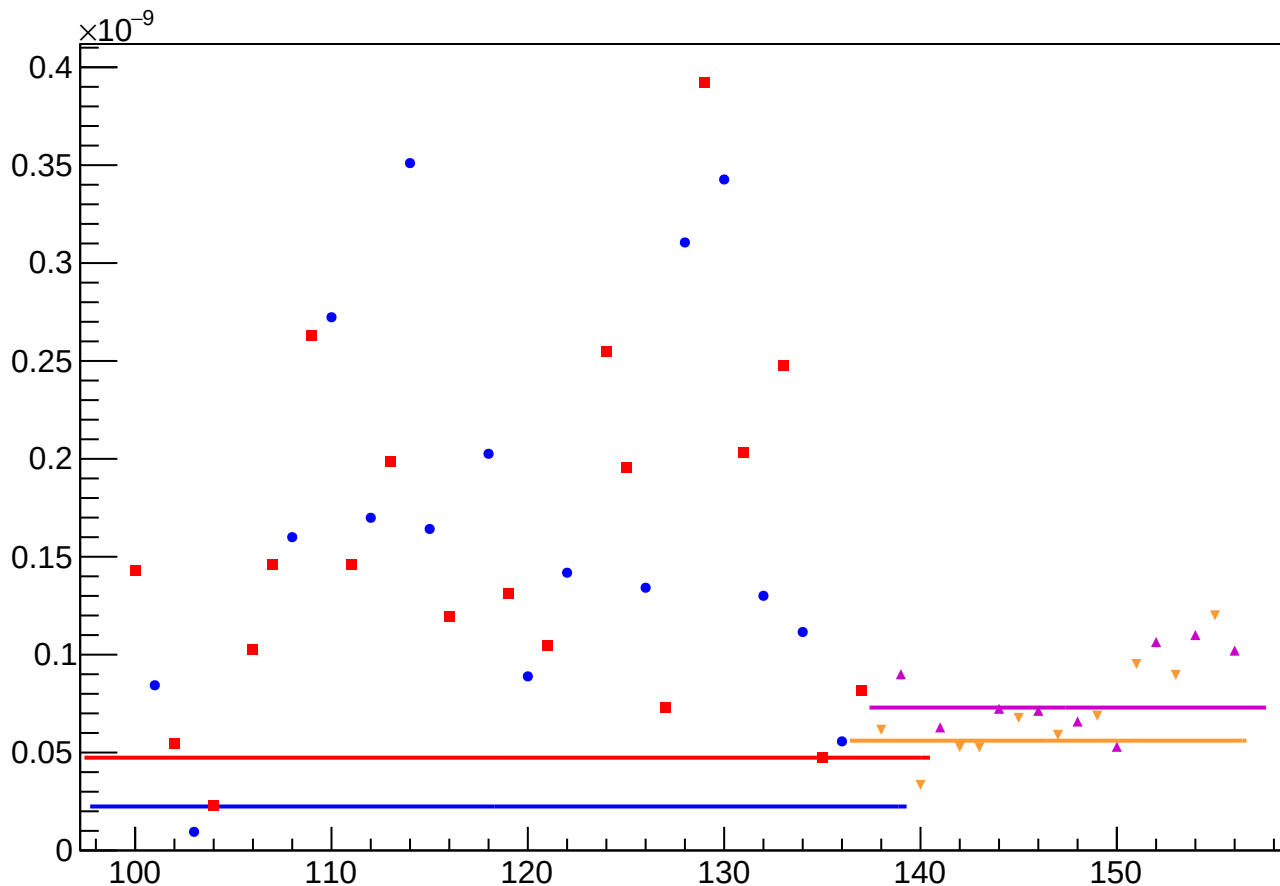
Right: 0.000+/-0.000 χ^2/NDF : 47.5/34

In: 0.000+/-0.000 χ^2/NDF : 23.6/24

Out: -0.000+/-0.000 χ^2/NDF : 37.2/28

All: 0.000+/-0.000 χ^2/NDF : 61.5/53

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 : 1251457.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4236050.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 607048.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2189625.5/18

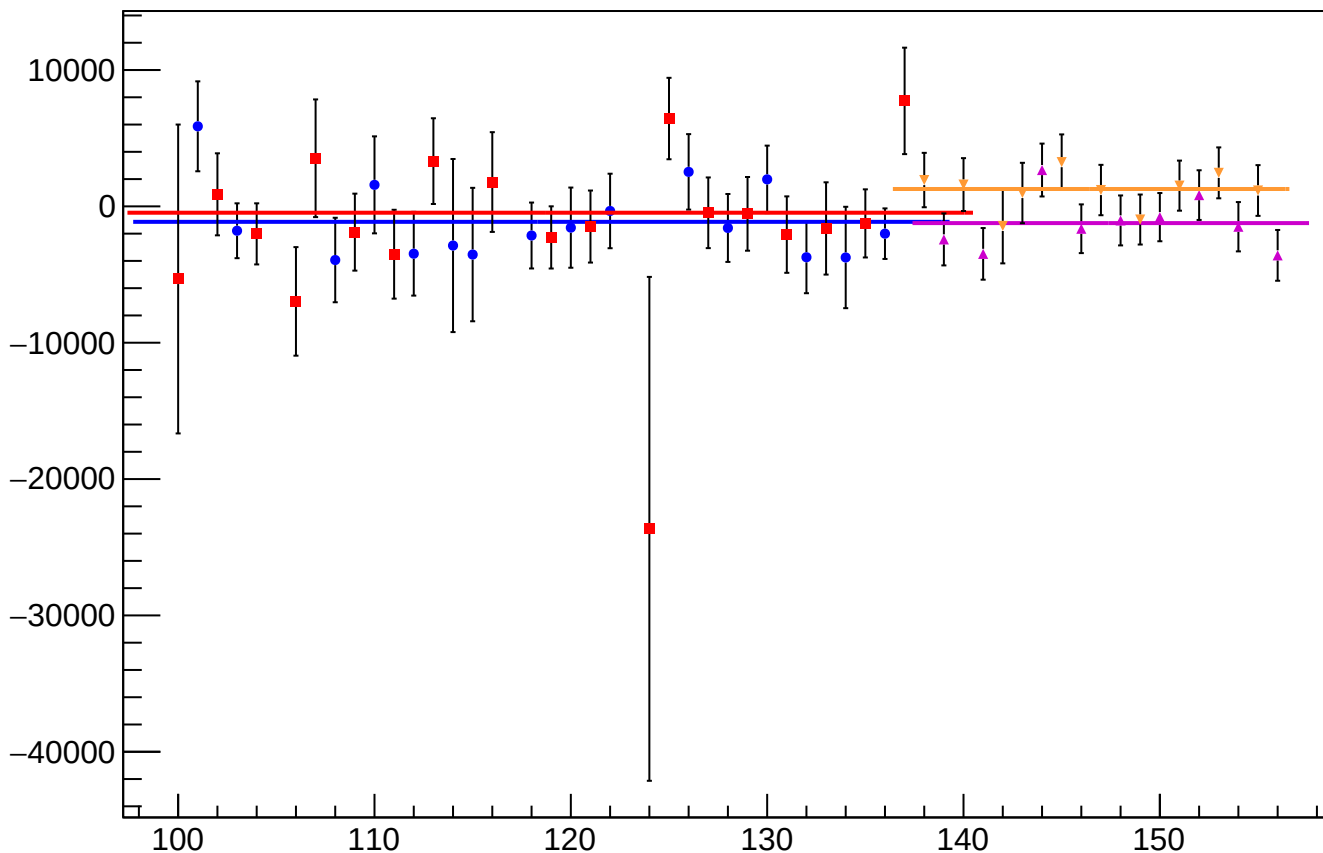
Right: 0.000+/-0.000 χ^2/NDF : 11534651.4/34

In: 0.000+/-0.000 χ^2/NDF : 10488527.5/24

Out: 0.000+/-0.000 χ^2/NDF : 5578499.8/28

All: 0.000+/-0.000 χ^2/NDF : 16748549.4/53

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.630 $\pm$ 693.782 χ^2 /NDF: 12.2/15

Left Out: 1274.203 $\pm$ 625.162 χ^2 /NDF: 4.0/9

Right Out: -465.519 $\pm$ 705.926 χ^2 /NDF: 20.0/18

Left In: -1226.850 $\pm$ 614.697 χ^2 /NDF: 8.9/8

Left: 2.569 $\pm$ 438.309 χ^2 /NDF: 21.0/18

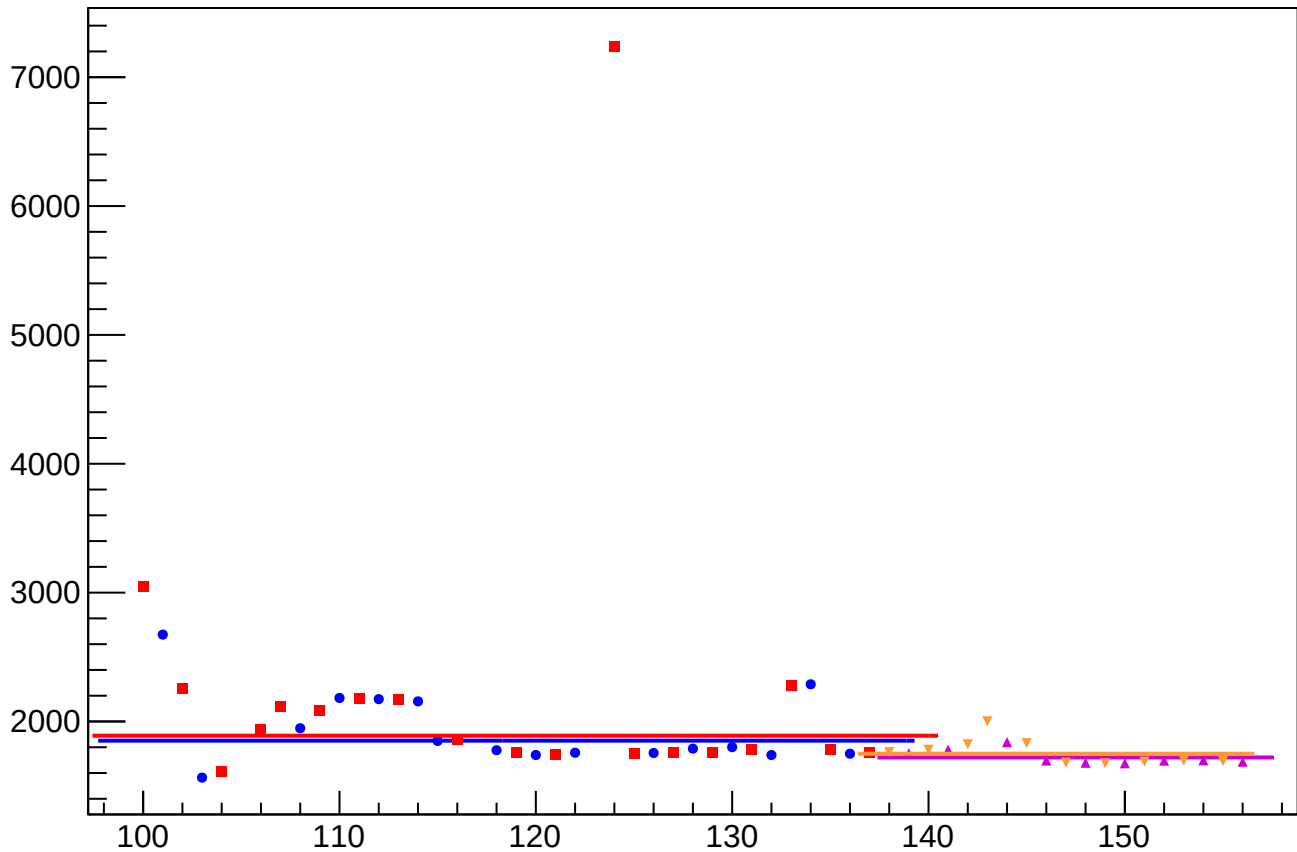
Right: -805.879 $\pm$ 494.815 χ^2 /NDF: 32.7/34

In: -1186.293 $\pm$ 460.088 χ^2 /NDF: 21.1/24

Out: 509.513 $\pm$ 468.017 χ^2 /NDF: 27.4/28

All: -352.878 $\pm$ 328.099 χ^2 /NDF: 55.2/53

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.130+/-0.491 χ^2/NDF : 259981.6/15

Left Out: 1749.772+/-0.442 χ^2/NDF : 42898.9/9

Right Out: 1889.528+/-0.498 χ^2/NDF : 358902.6/18

Left In: 1720.654+/-0.435 χ^2/NDF : 14131.7/8

Left: 1734.968+/-0.310 χ^2/NDF : 59236.7/18

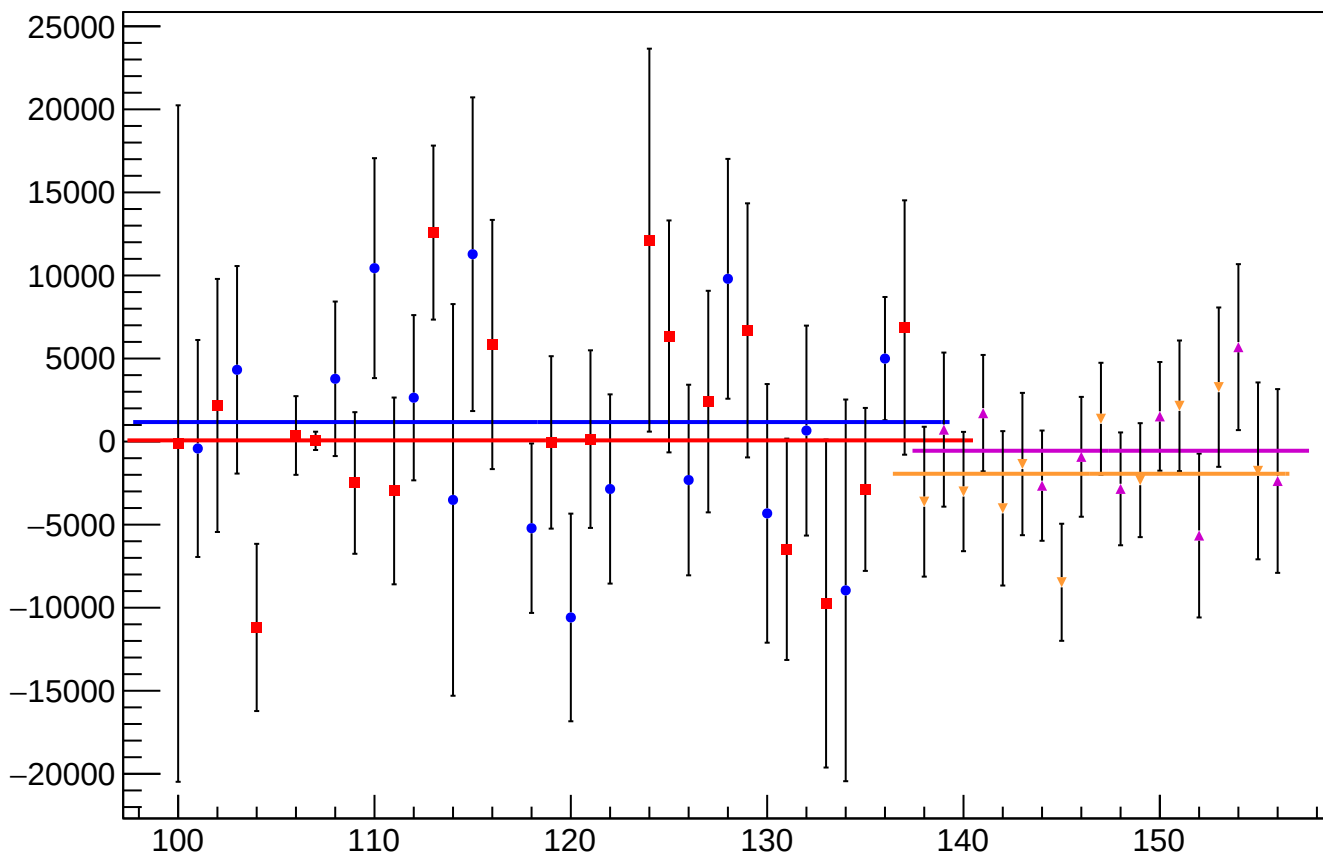
Right: 1870.040+/-0.349 χ^2/NDF : 621901.2/34

In: 1778.035+/-0.325 χ^2/NDF : 313741.5/24

Out: 1811.361+/-0.331 χ^2/NDF : 445848.4/28

All: 1794.430+/-0.232 χ^2/NDF : 764752.3/53

asym_atl1r2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.430+/-1502.128 χ^2/NDF : 13.7/15

Left Out: -1937.336+/-1265.435 χ^2/NDF : 7.1/9

Right Out: 72.681+/-505.693 χ^2/NDF : 17.9/18

Left In: -551.910+/-1302.339 χ^2/NDF : 4.5/8

Left: -1264.530+/-907.564 χ^2/NDF : 12.2/18

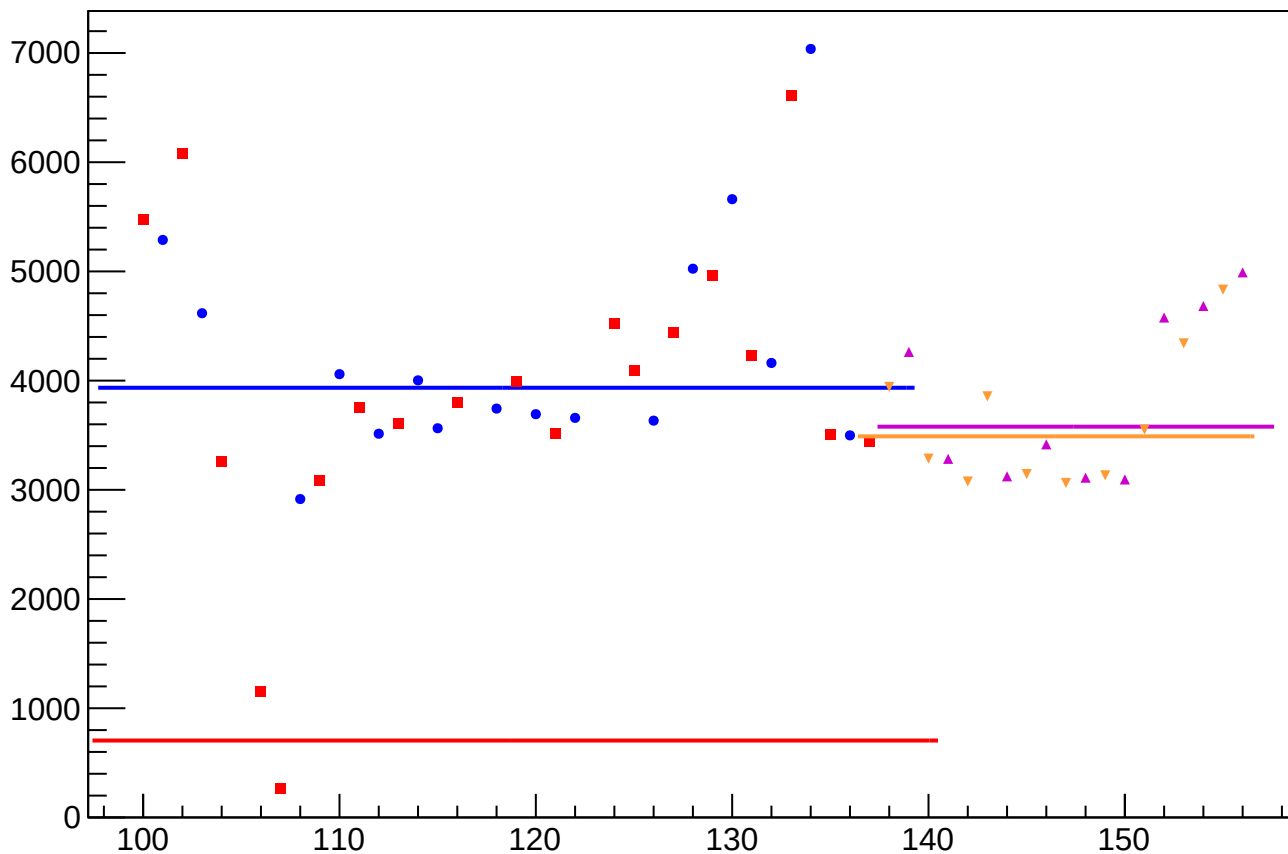
Right: 184.938+/-479.263 χ^2/NDF : 32.1/34

In: 189.326+/-984.003 χ^2/NDF : 19.0/24

Out: -204.109+/-469.586 χ^2/NDF : 27.2/28

All: -131.129+/-423.801 χ^2/NDF : 46.3/53

asym_atl1r2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3934.718 $\pm$ 1.062

χ^2 /NDF: 560125.6/15

Left Out: 3489.753 $\pm$ 0.895

χ^2 /NDF: 321004.2/9

Right Out: 704.385 $\pm$ 0.358

χ^2 /NDF: 10618643.5/18

Left In: 3578.444 $\pm$ 0.921

χ^2 /NDF: 491251.7/8

Left: 3532.824 $\pm$ 0.642 χ^2 /NDF: 817026.9/18

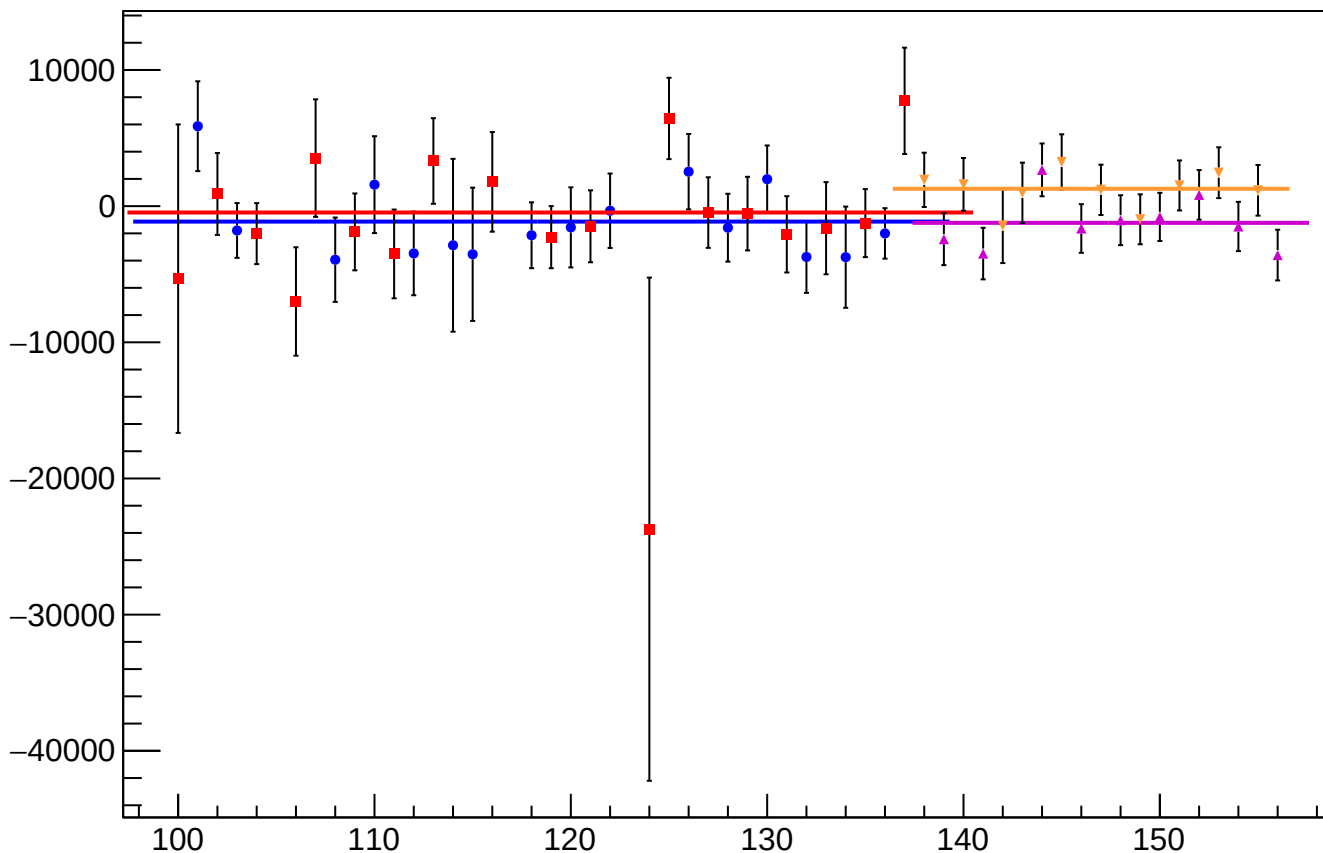
Right: 1033.223 $\pm$ 0.339 χ^2 /NDF: 19486549.2/34

In: 3731.328 $\pm$ 0.696 χ^2 /NDF: 1115606.2/24

Out: 1087.945 $\pm$ 0.332 χ^2 /NDF: 19295129.2/28

All: 1578.278 $\pm$ 0.300 χ^2 /NDF: 32166515.9/5

cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203+/-693.782 χ^2/NDF : 12.2/15

Left Out: 1274.176+/-625.162 χ^2/NDF : 4.0/9

Right Out: -465.899+/-705.928 χ^2/NDF : 20.0/18

Left In: -1226.798+/-614.697 χ^2/NDF : 8.9/8

Left: 2.582+/-438.309 χ^2/NDF : 21.0/18

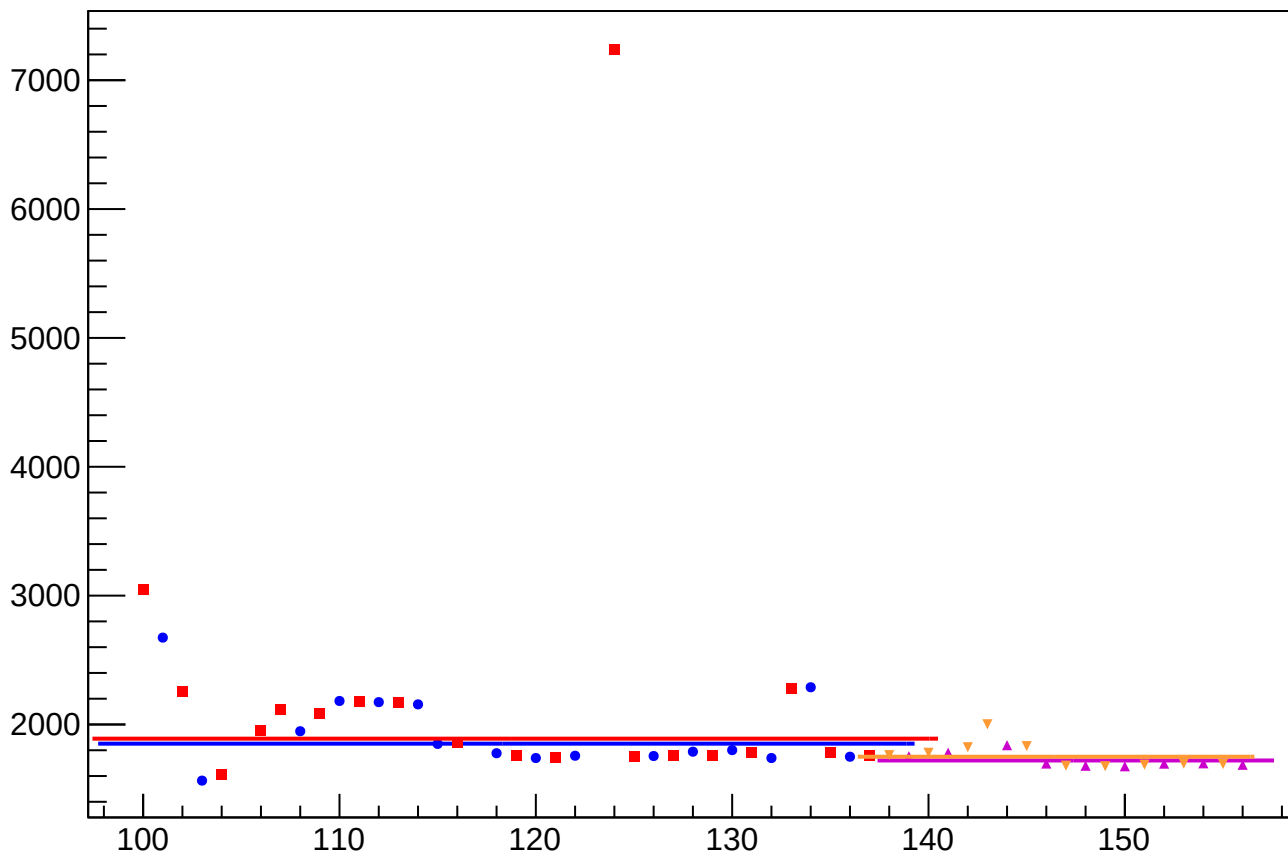
Right: -805.849+/-494.816 χ^2/NDF : 32.7/34

In: -1186.076+/-460.088 χ^2/NDF : 21.1/24

Out: 509.333+/-468.018 χ^2/NDF : 27.4/28

All: -352.857+/-328.099 χ^2/NDF : 55.2/53

cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131+/-0.491 χ^2/NDF : 259980.7/15

Left Out: 1749.772+/-0.442 χ^2/NDF : 42898.9/9

Right Out: 1889.986+/-0.498 χ^2/NDF : 359122.3/18

Left In: 1720.654+/-0.435 χ^2/NDF : 14131.7/8

Left: 1734.968+/-0.310 χ^2/NDF : 59236.7/18

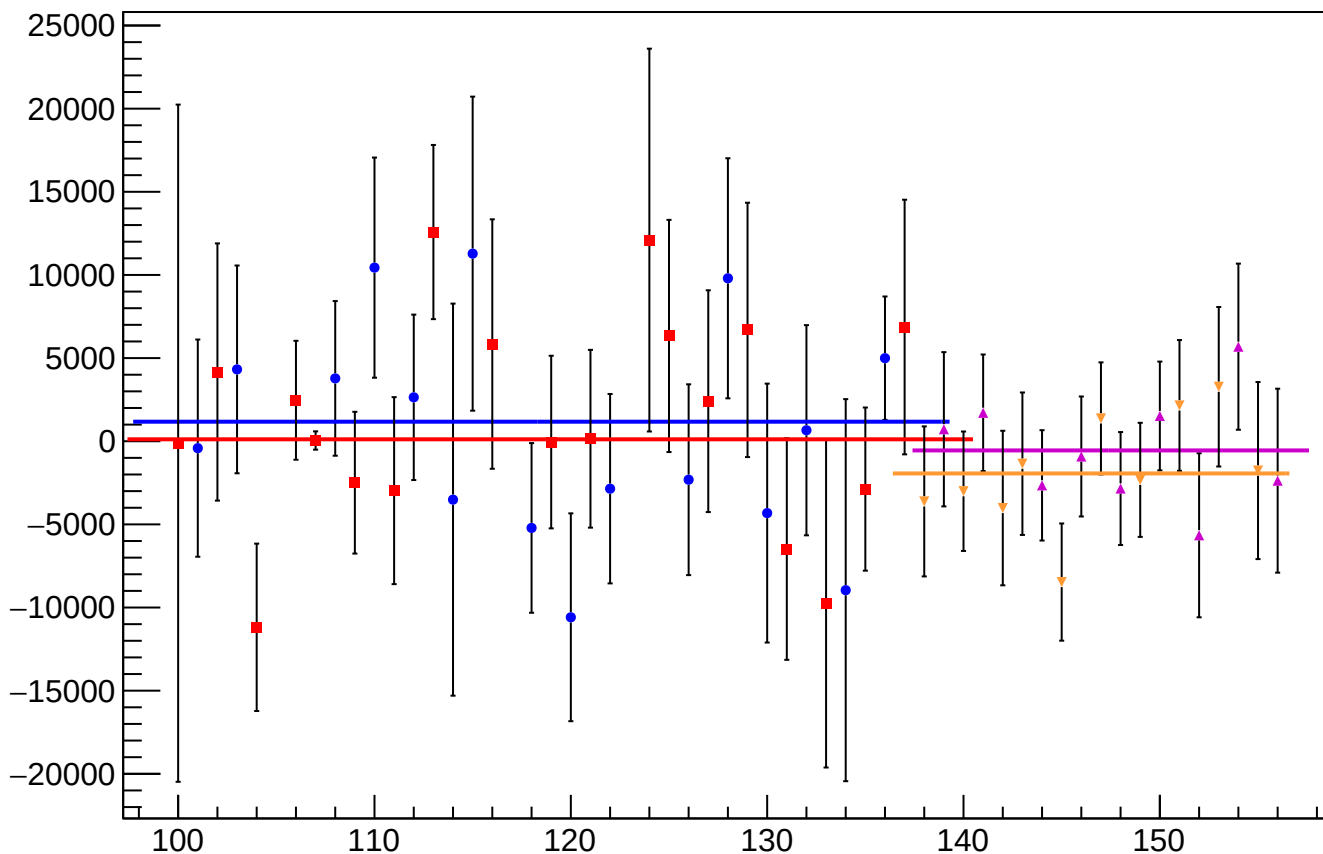
Right: 1870.262+/-0.350 χ^2/NDF : 622191.7/34

In: 1778.035+/-0.325 χ^2/NDF : 313740.9/24

Out: 1811.547+/-0.331 χ^2/NDF : 446346.2/28

All: 1794.520+/-0.232 χ^2/NDF : 765306.8/53

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: -1937.390 $\pm$ 1265.431 χ^2 /NDF: 7.1/9

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: -551.944 $\pm$ 1302.338 χ^2 /NDF: 4.5/8

Left: -1264.576 $\pm$ 907.562 χ^2 /NDF: 12.2/18

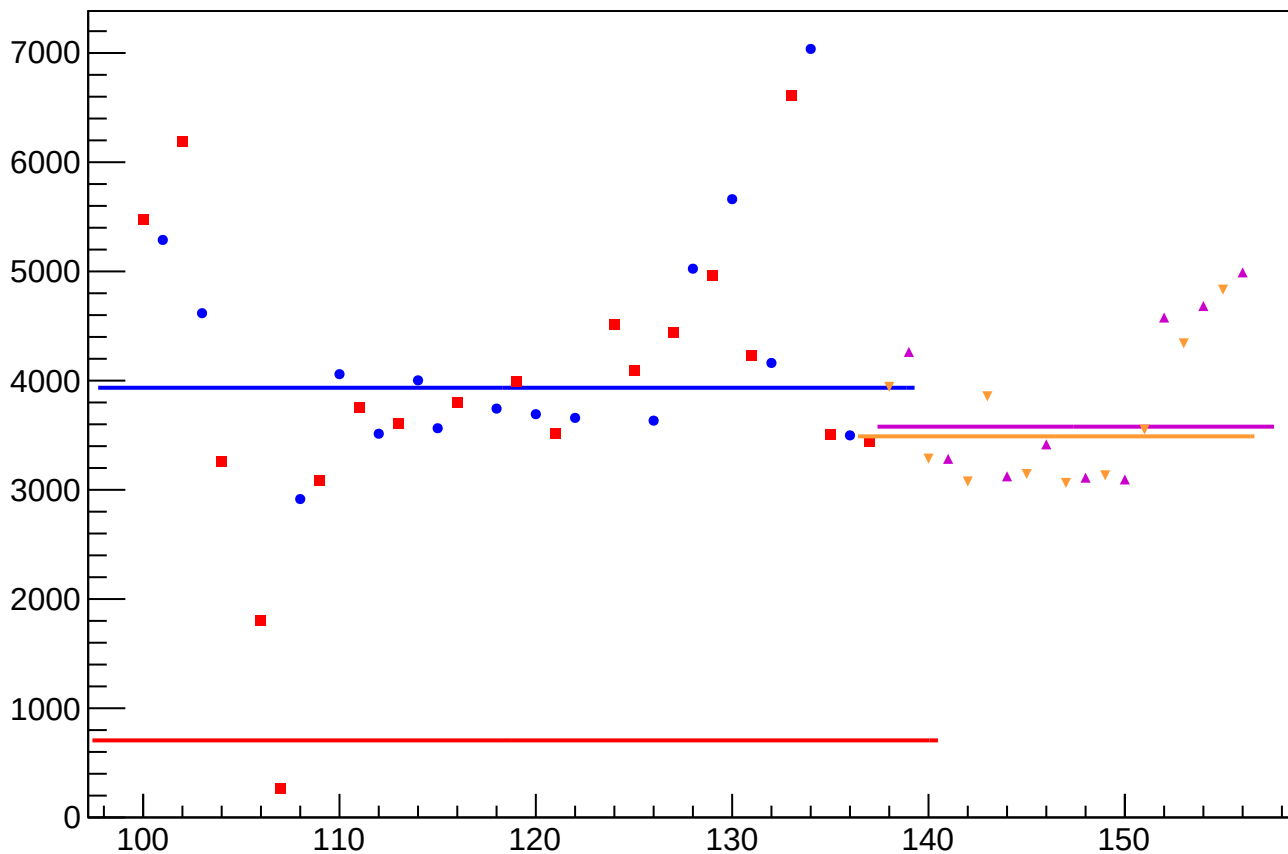
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: 189.293 $\pm$ 984.004 χ^2 /NDF: 19.0/24

Out: -173.214 $\pm$ 474.853 χ^2 /NDF: 27.9/28

All: -104.741 $\pm$ 427.661 χ^2 /NDF: 47.0/53

asym_atl1r2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3934.727+/-1.062

χ^2/NDF : 560149.8/15

Left Out: 3489.742+/-0.895

χ^2/NDF : 321015.6/9

Right Out: 705.620+/-0.362

χ^2/NDF : 10747208.1/18

Left In: 3578.444+/-0.921

χ^2/NDF : 491244.2/8

Left: 3532.819+/-0.642 χ^2/NDF : 817032.1/18

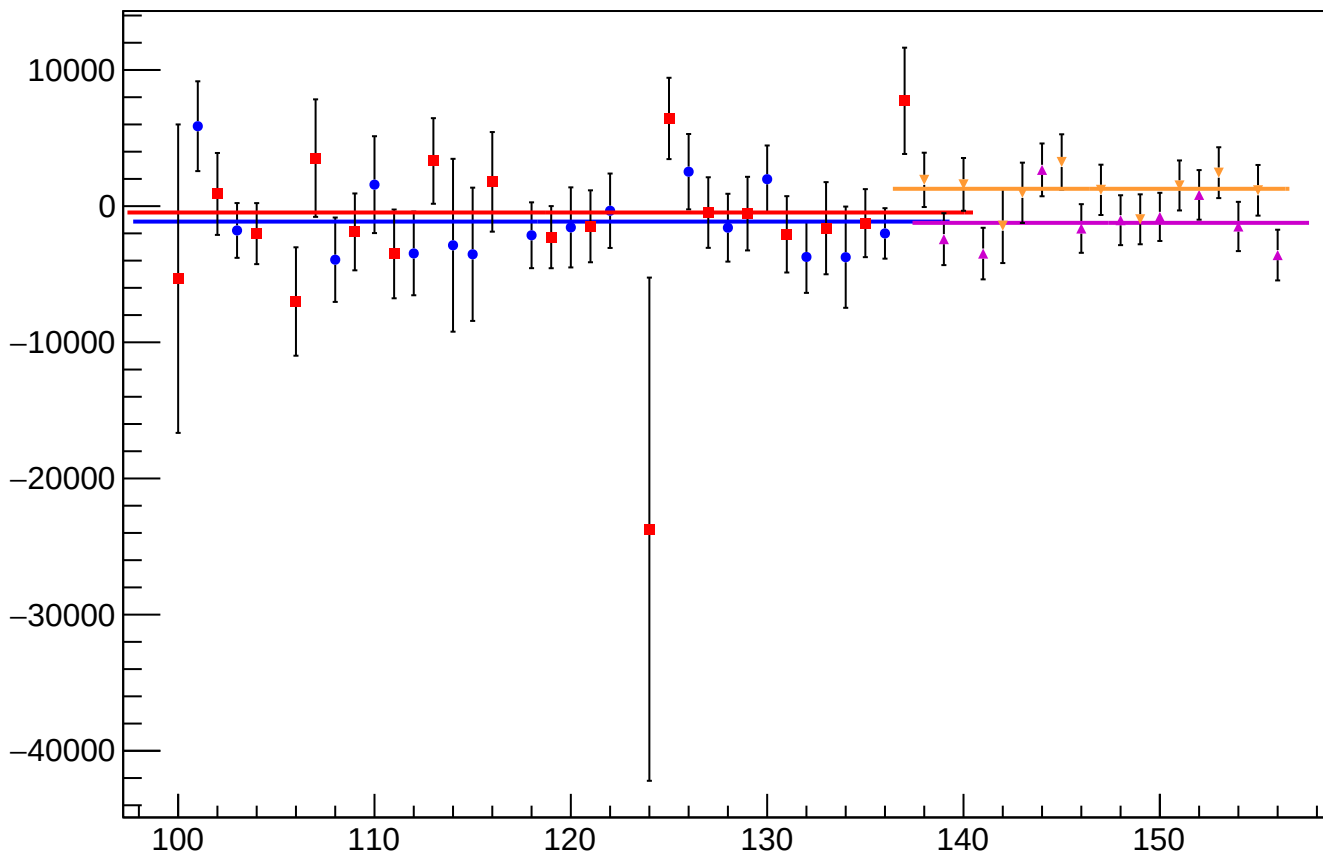
Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

In: 3731.332+/-0.696 χ^2/NDF : 1115625.5/24

Out: 1097.659+/-0.336 χ^2/NDF : 19386196.9/28

All: 1595.129+/-0.302 χ^2/NDF : 32122731.8/5

eigen_cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203 $\pm$ 693.782 χ^2 /NDF: 12.2/15

Left Out: 1274.176 $\pm$ 625.162 χ^2 /NDF: 4.0/9

Right Out: -465.899 $\pm$ 705.928 χ^2 /NDF: 20.0/18

Left In: -1226.798 $\pm$ 614.697 χ^2 /NDF: 8.9/8

Left: 2.582 $\pm$ 438.309 χ^2 /NDF: 21.0/18

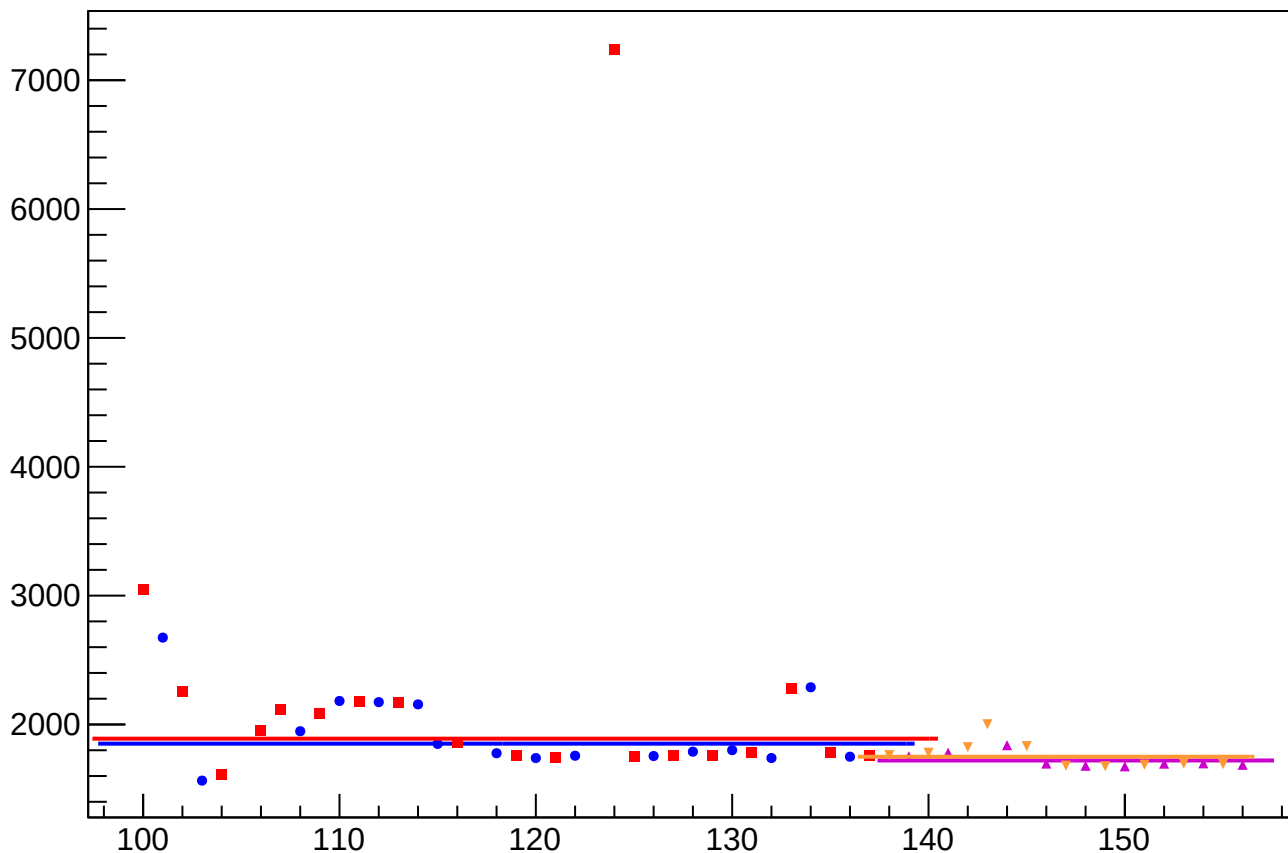
Right: -805.849 $\pm$ 494.816 χ^2 /NDF: 32.7/34

In: -1186.076 $\pm$ 460.088 χ^2 /NDF: 21.1/24

Out: 509.333 $\pm$ 468.018 χ^2 /NDF: 27.4/28

All: -352.857 $\pm$ 328.099 χ^2 /NDF: 55.2/53

eigen_cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131 ± 0.491 $\chi^2/\text{NDF}: 259980.7/15$

Left Out: 1749.772 ± 0.442 $\chi^2/\text{NDF}: 42898.9/9$

Right Out: 1889.986 ± 0.498 $\chi^2/\text{NDF}: 359122.3/18$

Left In: 1720.654 ± 0.435 $\chi^2/\text{NDF}: 14131.7/8$

Left: 1734.968 ± 0.310 $\chi^2/\text{NDF}: 59236.7/18$

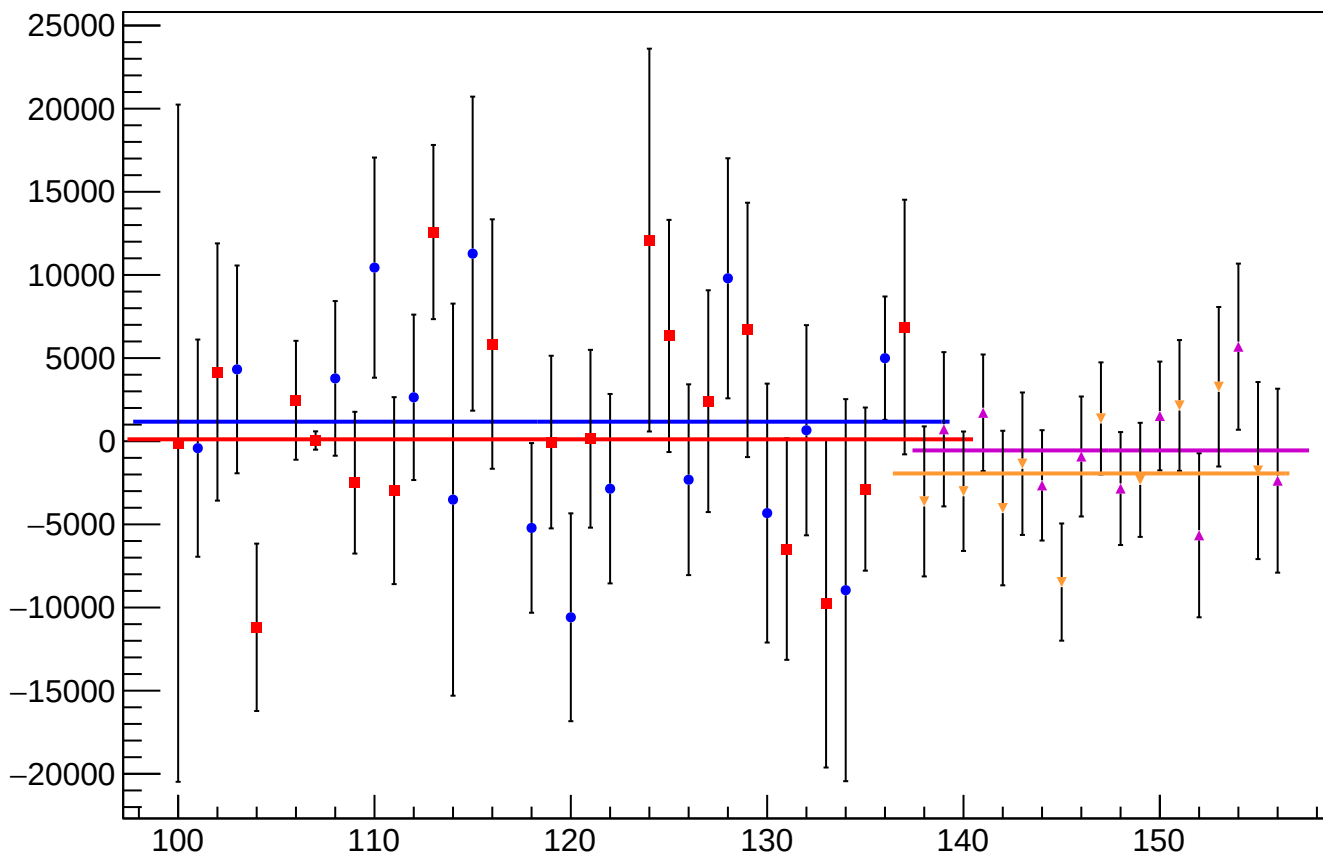
Right: 1870.262 ± 0.350 $\chi^2/\text{NDF}: 622191.7/34$

In: 1778.035 ± 0.325 $\chi^2/\text{NDF}: 313740.9/24$

Out: 1811.547 ± 0.331 $\chi^2/\text{NDF}: 446346.2/28$

All: 1794.520 ± 0.232 $\chi^2/\text{NDF}: 765306.8/53$

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: -1937.390 $\pm$ 1265.431 χ^2 /NDF: 7.1/9

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: -551.944 $\pm$ 1302.338 χ^2 /NDF: 4.5/8

Left: -1264.576 $\pm$ 907.562 χ^2 /NDF: 12.2/18

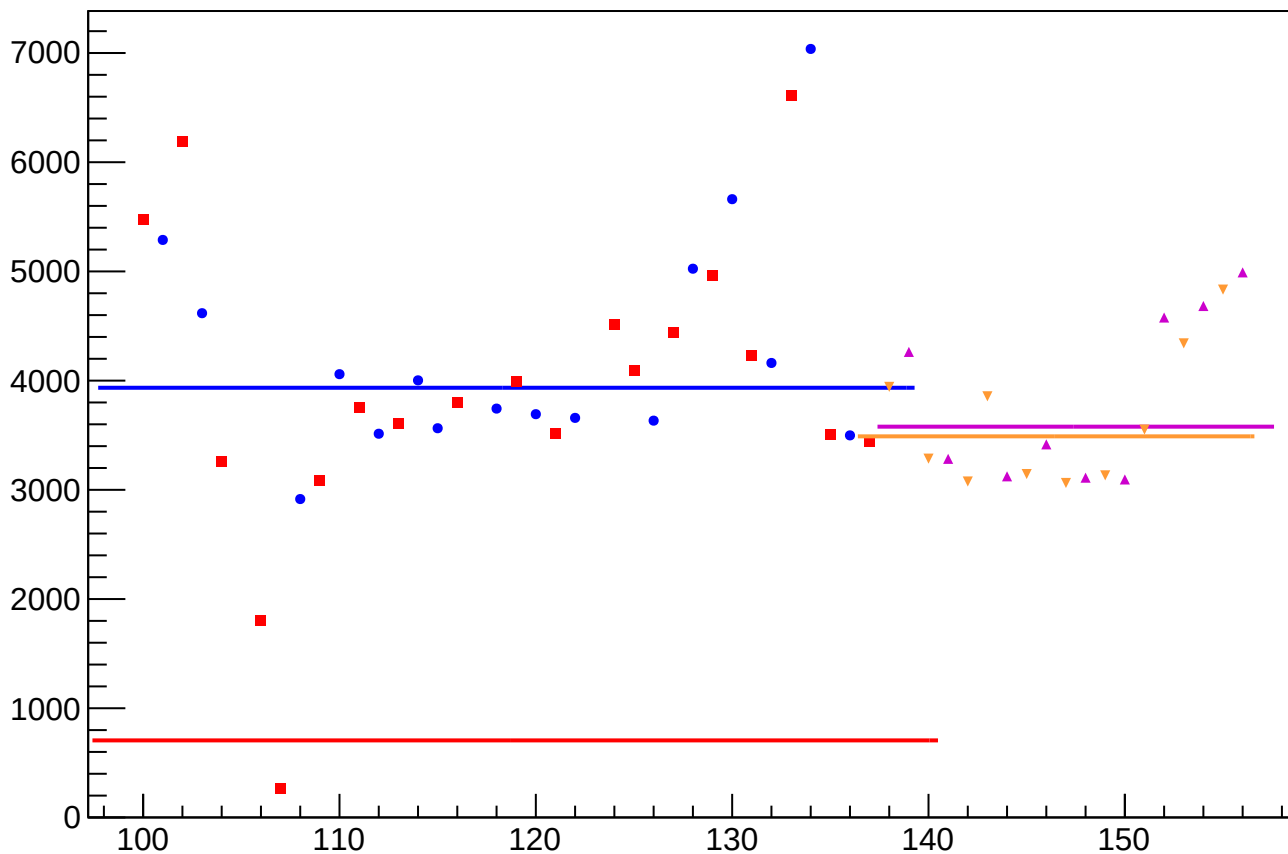
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: 189.293 $\pm$ 984.004 χ^2 /NDF: 19.0/24

Out: -173.214 $\pm$ 474.853 χ^2 /NDF: 27.9/28

All: -104.741 $\pm$ 427.661 χ^2 /NDF: 47.0/53

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: 3489.742+/-0.895 χ^2/NDF : 321015.6/9

Right Out: 705.620+/-0.362 χ^2/NDF : 10747208.1/18

Left In: 3578.444+/-0.921 χ^2/NDF : 491244.2/8

Left: 3532.819+/-0.642 χ^2/NDF : 817032.1/18

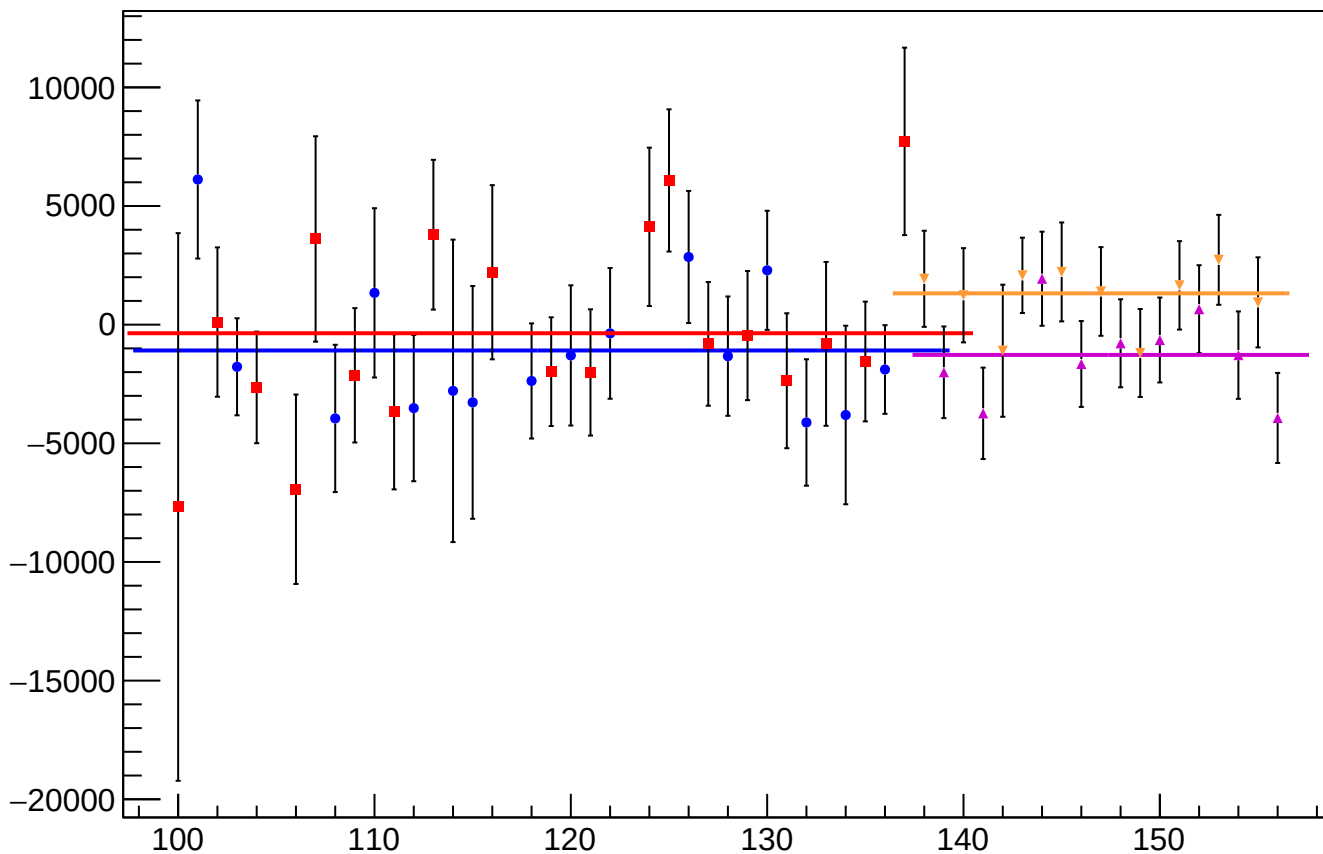
Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

In: 3731.332+/-0.696 χ^2/NDF : 1115625.5/24

Out: 1097.659+/-0.336 χ^2/NDF : 19386196.9/28

All: 1595.129+/-0.302 χ^2/NDF : 32122731.8/5

dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1087.731 $\pm$ 699.579 χ^2/NDF : 13.2/15

Left Out: 1320.401 $\pm$ 611.429 χ^2/NDF : 3.7/9

Right Out: -361.218 $\pm$ 699.665 χ^2/NDF : 20.8/18

Left In: -1274.884 $\pm$ 624.406 χ^2/NDF : 7.7/8

Left: 50.007 $\pm$ 436.861 χ^2/NDF : 20.2/18

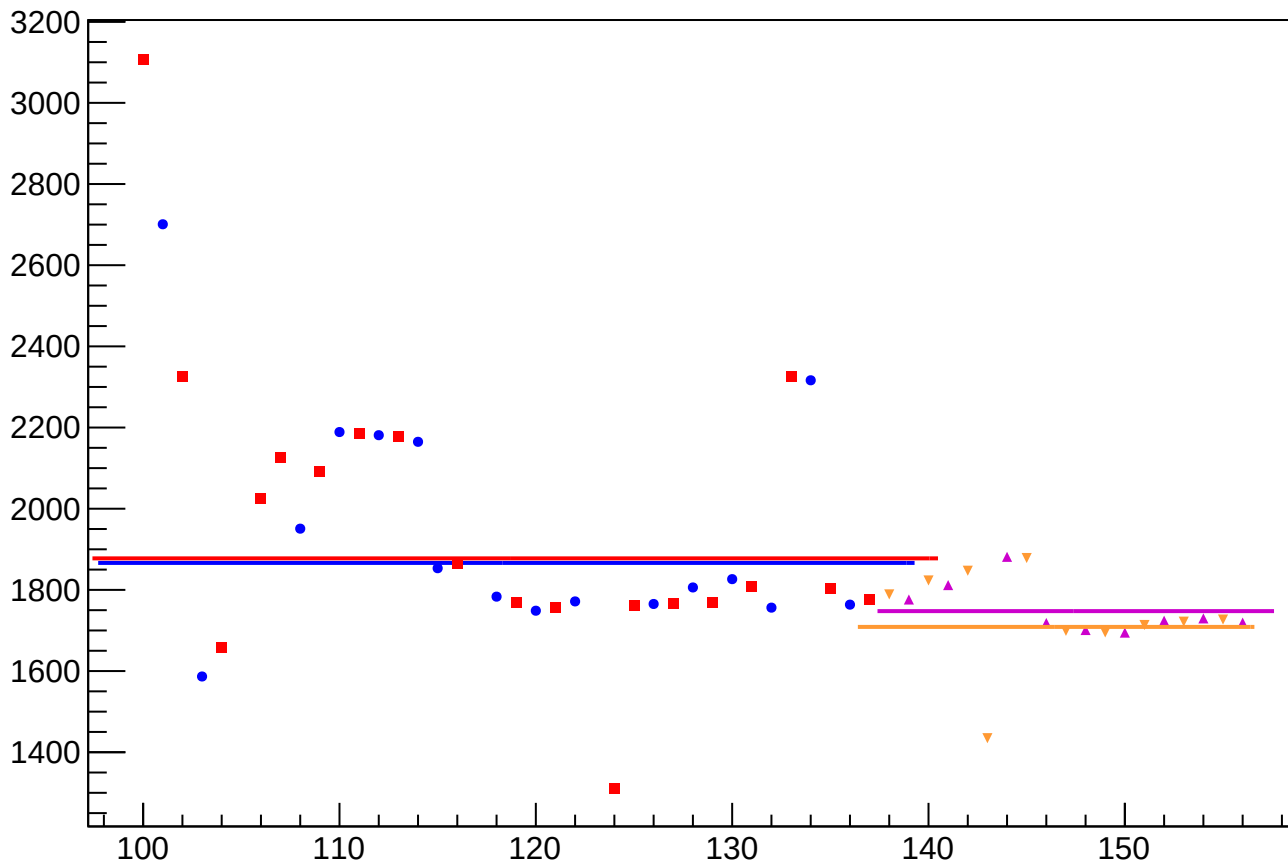
Right: -724.519 $\pm$ 494.707 χ^2/NDF : 34.5/34

In: -1191.900 $\pm$ 465.840 χ^2/NDF : 20.9/24

Out: 592.253 $\pm$ 460.401 χ^2/NDF : 27.8/28

All: -289.346 $\pm$ 327.459 χ^2/NDF : 56.2/53

dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456+/-0.495 χ^2/NDF : 256262.4/15

Left Out: 1708.781+/-0.432 χ^2/NDF : 88056.0/9

Right Out: 1877.659+/-0.494 χ^2/NDF : 251850.5/18

Left In: 1747.689+/-0.442 χ^2/NDF : 16254.0/8

Left: 1727.827+/-0.309 χ^2/NDF : 108274.3/18

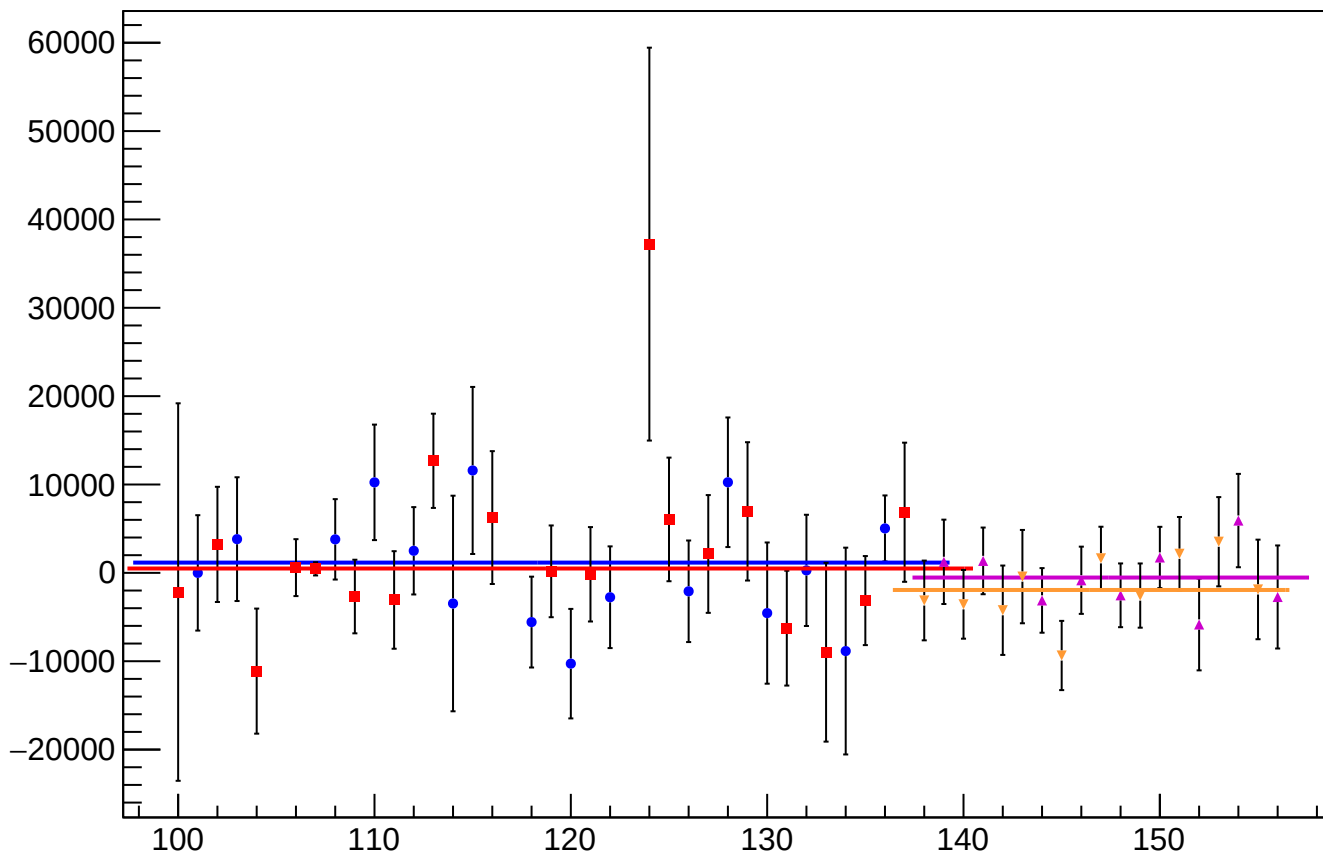
Right: 1872.061+/-0.350 χ^2/NDF : 508369.5/34

In: 1800.351+/-0.329 χ^2/NDF : 304600.2/24

Out: 1781.974+/-0.325 χ^2/NDF : 406033.9/28

All: 1791.051+/-0.232 χ^2/NDF : 712209.0/53

asym_atl1r2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.124+/-1512.225 χ^2/NDF : 13.7/15

Left Out: -1936.371+/-1363.829 χ^2/NDF : 7.3/9

Right Out: 492.907+/-658.510 χ^2/NDF : 16.9/18

Left In: -530.391+/-1386.298 χ^2/NDF : 4.3/8

Left: -1244.867+/-972.219 χ^2/NDF : 12.1/18

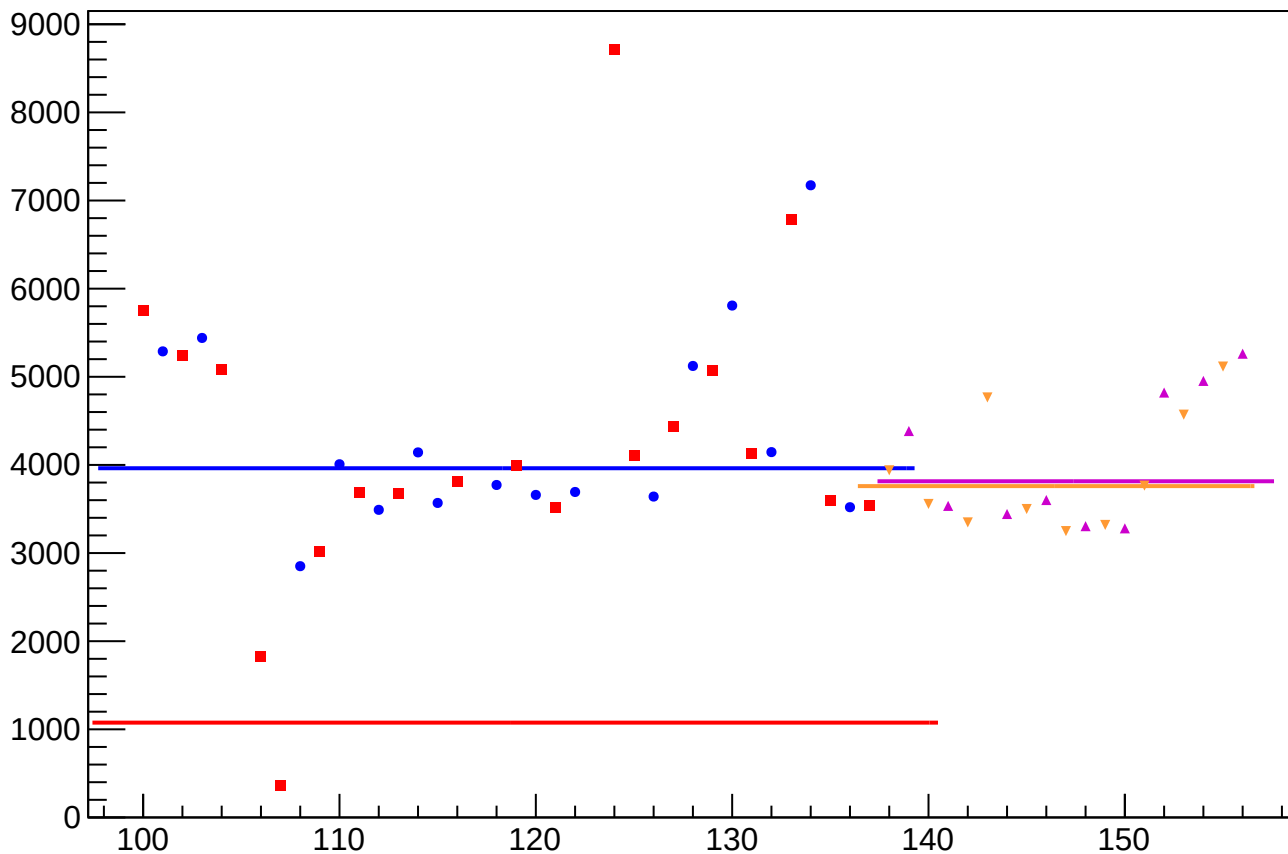
Right: 599.419+/-603.751 χ^2/NDF : 30.8/34

In: 242.016+/-1021.884 χ^2/NDF : 18.6/24

Out: 33.632+/-593.004 χ^2/NDF : 26.8/28

All: 86.128+/-512.899 χ^2/NDF : 45.5/53

asym_atl1r2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3962.368+/-1.069 χ^2/NDF : 668339.6/15

Left Out: 3759.560+/-0.964 χ^2/NDF : 340781.4/9

Right Out: 1075.957+/-0.466 χ^2/NDF : 9558372.9/18

Left In: 3814.618+/-0.980 χ^2/NDF : 444922.3/8

Left: 3786.639+/-0.687 χ^2/NDF : 787306.9/18

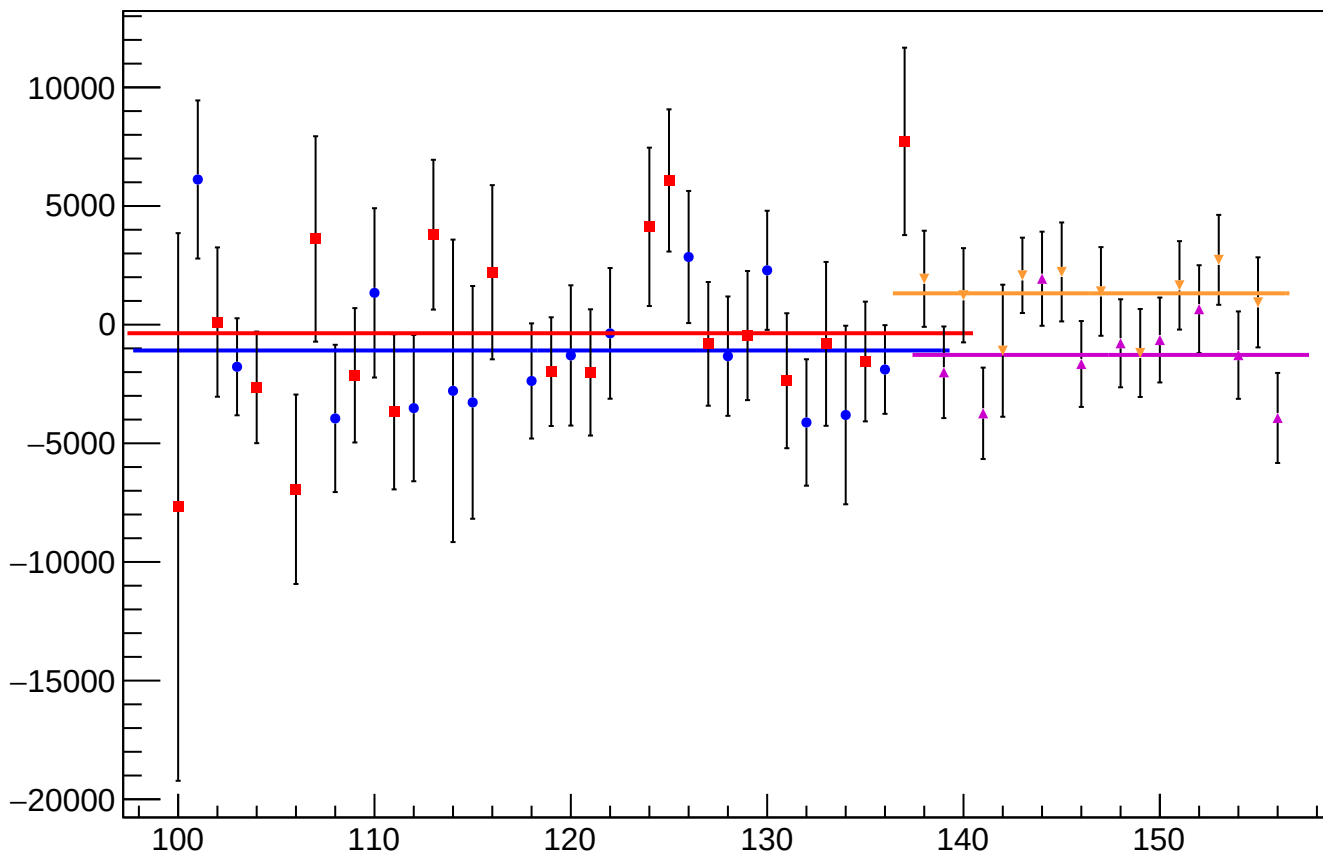
Right: 1536.045+/-0.427 χ^2/NDF : 16351680.6/34

In: 3882.086+/-0.723 χ^2/NDF : 1123635.8/24

Out: 1583.314+/-0.419 χ^2/NDF : 16178822.8/28

All: 2162.418+/-0.363 χ^2/NDF : 24873700.3/5

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: 1320.401 $\pm$ 611.429 χ^2 /NDF: 3.7/9

Right Out: -361.223 $\pm$ 699.665 χ^2 /NDF: 20.8/18

Left In: -1274.881 $\pm$ 624.406 χ^2 /NDF: 7.7/8

Left: 50.008 $\pm$ 436.861 χ^2 /NDF: 20.2/18

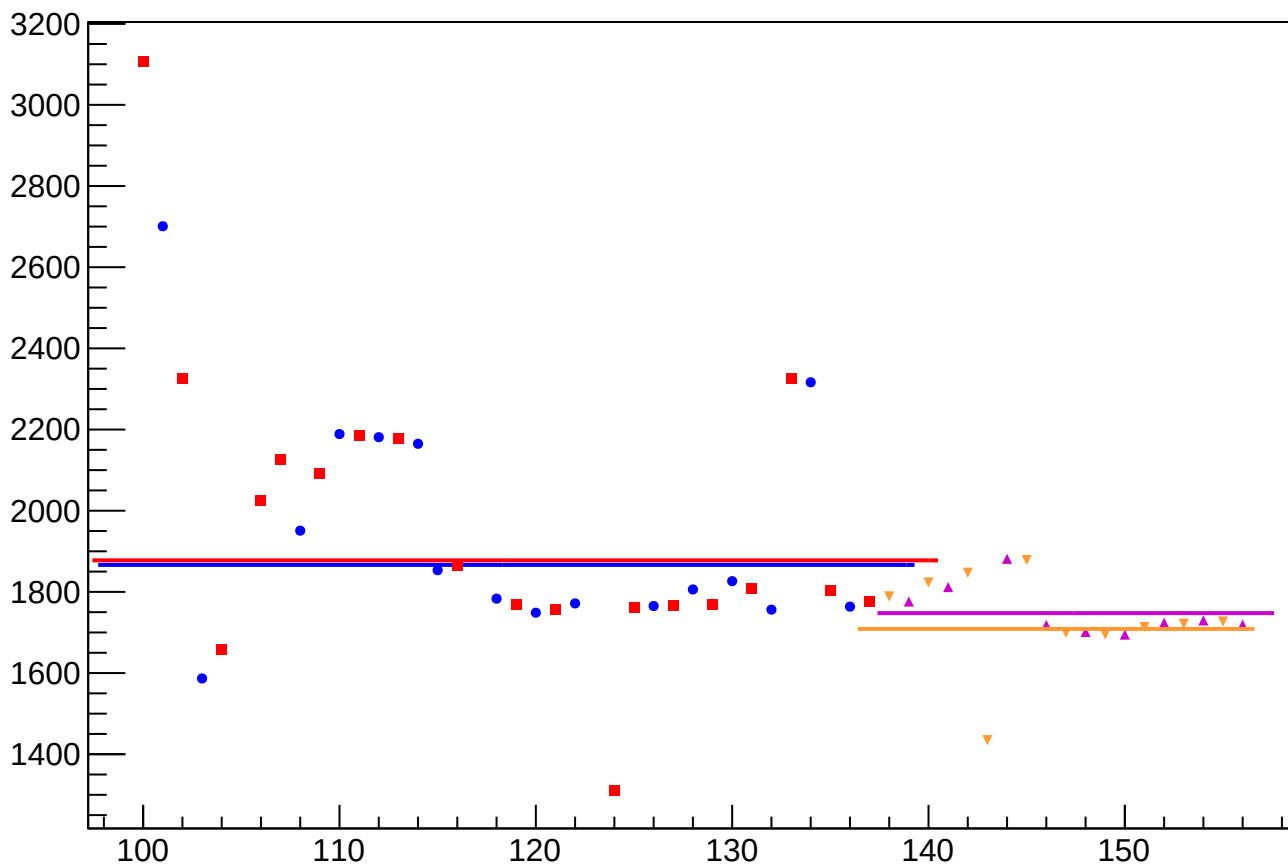
Right: -724.524 $\pm$ 494.707 χ^2 /NDF: 34.5/34

In: -1191.900 $\pm$ 465.840 χ^2 /NDF: 20.9/24

Out: 592.251 $\pm$ 460.401 χ^2 /NDF: 27.8/28

All: -289.348 $\pm$ 327.459 χ^2 /NDF: 56.2/53

eigen_dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456 $\pm$ 0.495 χ^2 /NDF: 256262.3/15

Left Out: 1708.782 $\pm$ 0.432 χ^2 /NDF: 88055.1/9

Right Out: 1877.659 $\pm$ 0.494 χ^2 /NDF: 251850.8/18

Left In: 1747.689 $\pm$ 0.442 χ^2 /NDF: 16253.9/8

Left: 1727.827 $\pm$ 0.309 χ^2 /NDF: 108273.2/18

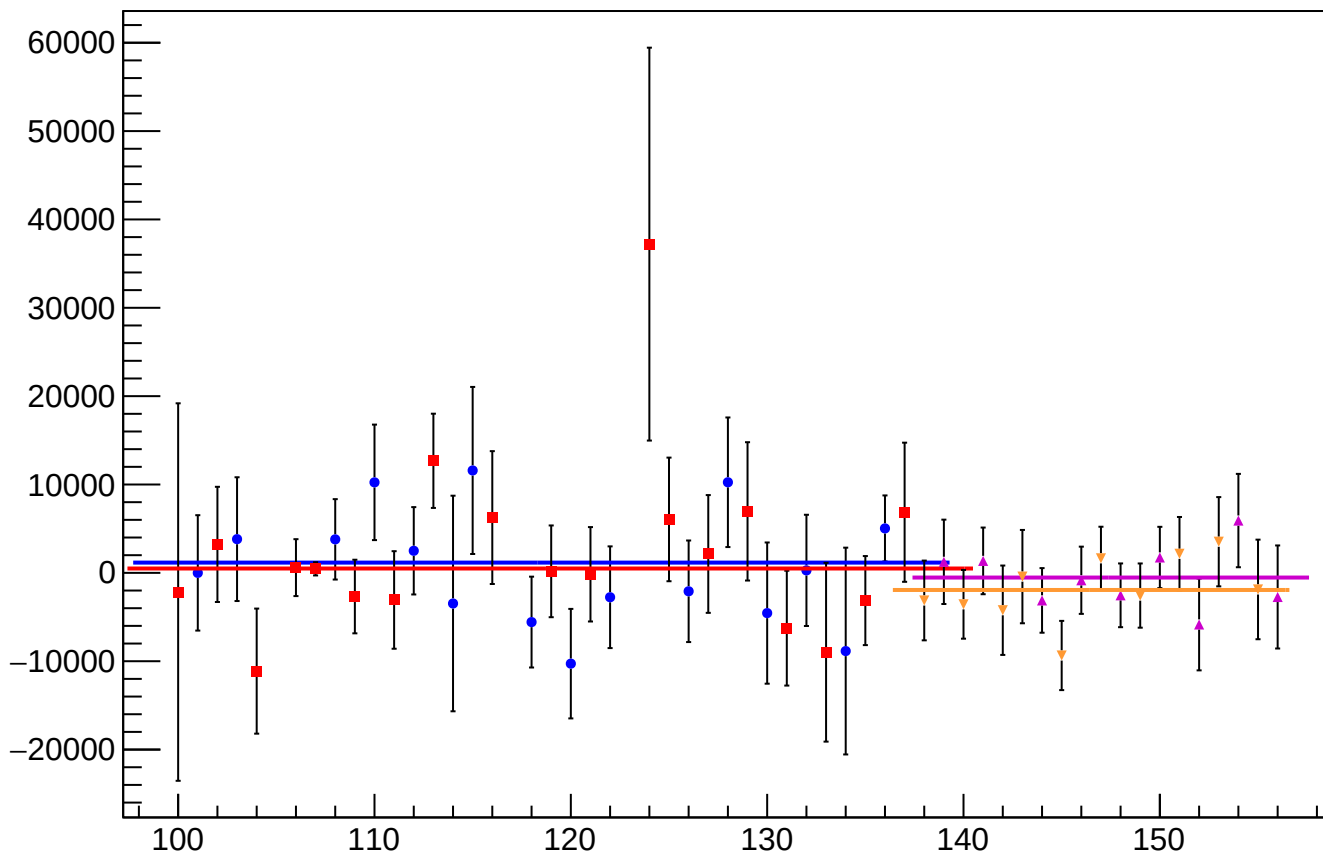
Right: 1872.061 $\pm$ 0.350 χ^2 /NDF: 508369.7/34

In: 1800.351 $\pm$ 0.329 χ^2 /NDF: 304599.7/24

Out: 1781.975 $\pm$ 0.325 χ^2 /NDF: 406032.6/28

All: 1791.052 $\pm$ 0.232 χ^2 /NDF: 712207.2/53

asym_atl1r2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.104 $\pm$ 1512.222 χ^2 /NDF: 13.7/15

Left Out: -1936.370 $\pm$ 1363.830 χ^2 /NDF: 7.3/9

Right Out: 492.914 $\pm$ 658.521 χ^2 /NDF: 16.9/18

Left In: -530.388 $\pm$ 1386.299 χ^2 /NDF: 4.3/8

Left: -1244.866 $\pm$ 972.220 χ^2 /NDF: 12.1/18

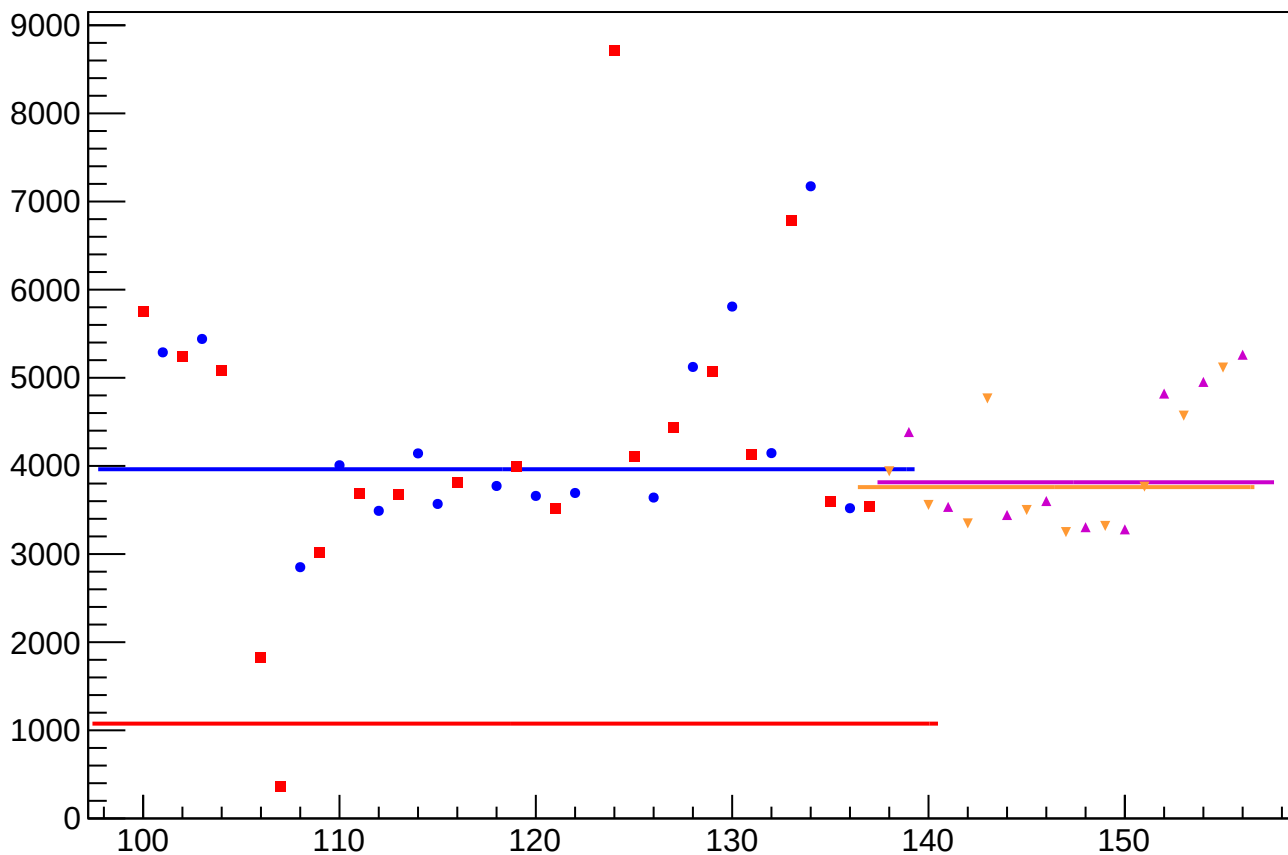
Right: 599.426 $\pm$ 603.759 χ^2 /NDF: 30.8/34

In: 242.011 $\pm$ 1021.884 χ^2 /NDF: 18.6/24

Out: 33.627 $\pm$ 593.012 χ^2 /NDF: 26.8/28

All: 86.124 $\pm$ 512.904 χ^2 /NDF: 45.5/53

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: 3759.564+/-0.964 χ^2/NDF : 340779.3/9

Right Out: 1075.988+/-0.466 χ^2/NDF : 9558243.3/18

Left In: 3814.623+/-0.980 χ^2/NDF : 444920.7/8

Left: 3786.644+/-0.687 χ^2/NDF : 787303.2/18

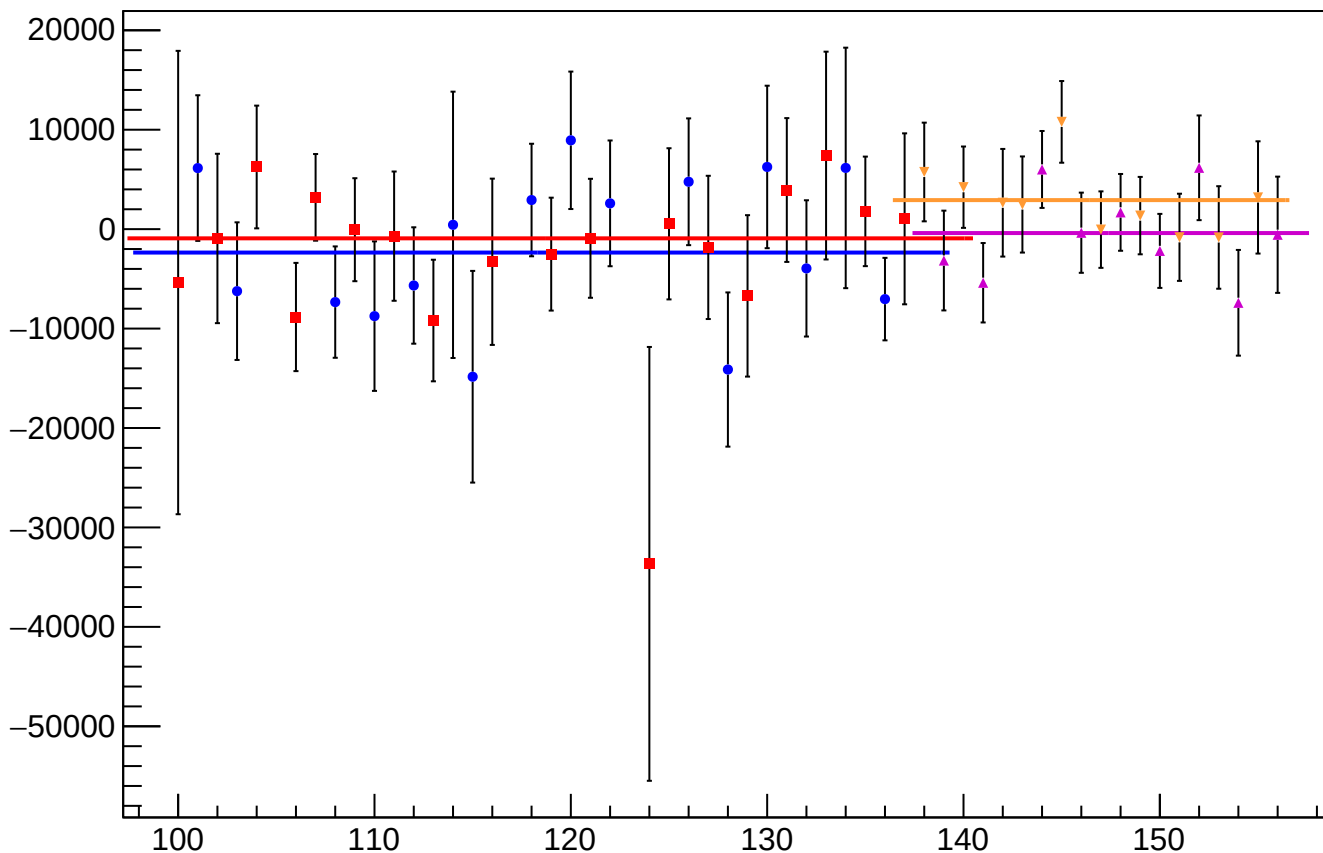
Right: 1536.084+/-0.427 χ^2/NDF : 16351375.7/34

In: 3882.086+/-0.723 χ^2/NDF : 1123628.9/24

Out: 1583.353+/-0.419 χ^2/NDF : 16178516.9/28

All: 2162.458+/-0.363 χ^2/NDF : 24873084.0/5

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2354.851 $\pm$ 1684.784 χ^2/NDF : 15.5/15

Left Out: 2919.786 $\pm$ 1426.792 χ^2/NDF : 6.1/9

Right Out: -924.896 $\pm$ 1546.889 χ^2/NDF : 10.6/18

Left In: -393.110 $\pm$ 1457.597 χ^2/NDF : 8.4/8

Left: 1298.716 $\pm$ 1019.611 χ^2/NDF : 17.2/18

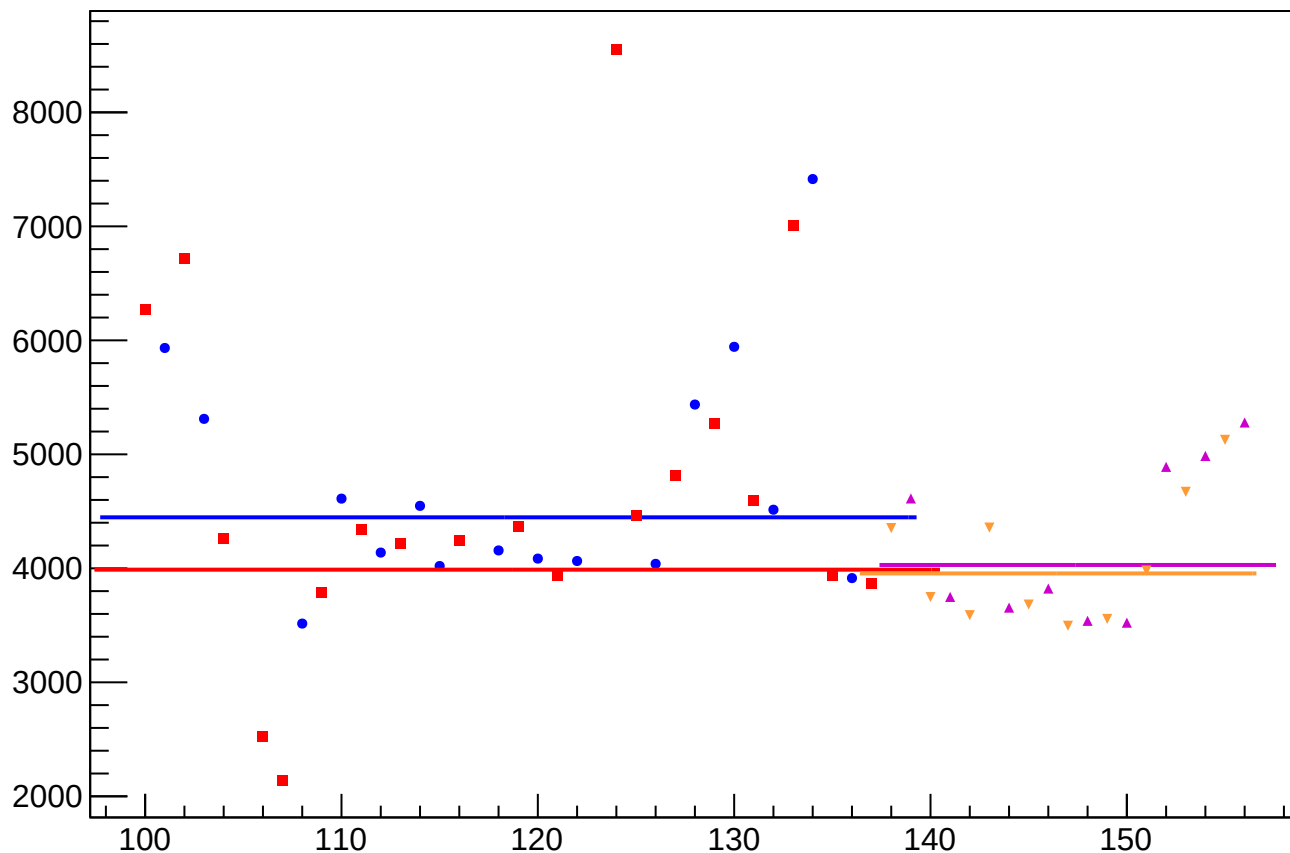
Right: -1578.969 $\pm$ 1139.452 χ^2/NDF : 26.5/34

In: -1232.888 $\pm$ 1102.315 χ^2/NDF : 24.7/24

Out: 1152.467 $\pm$ 1048.785 χ^2/NDF : 20.1/28

All: 19.112 $\pm$ 759.823 χ^2/NDF : 47.3/53

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4447.424+/-1.191 χ^2/NDF : 458251.2/15

Left Out: 3955.140+/-1.009 χ^2/NDF : 224153.1/9

Right Out: 3988.249+/-1.083 χ^2/NDF : 1143932.4/18

Left In: 4029.454+/-1.031 χ^2/NDF : 339670.9/8

Left: 3991.504+/-0.721 χ^2/NDF : 566478.9/18

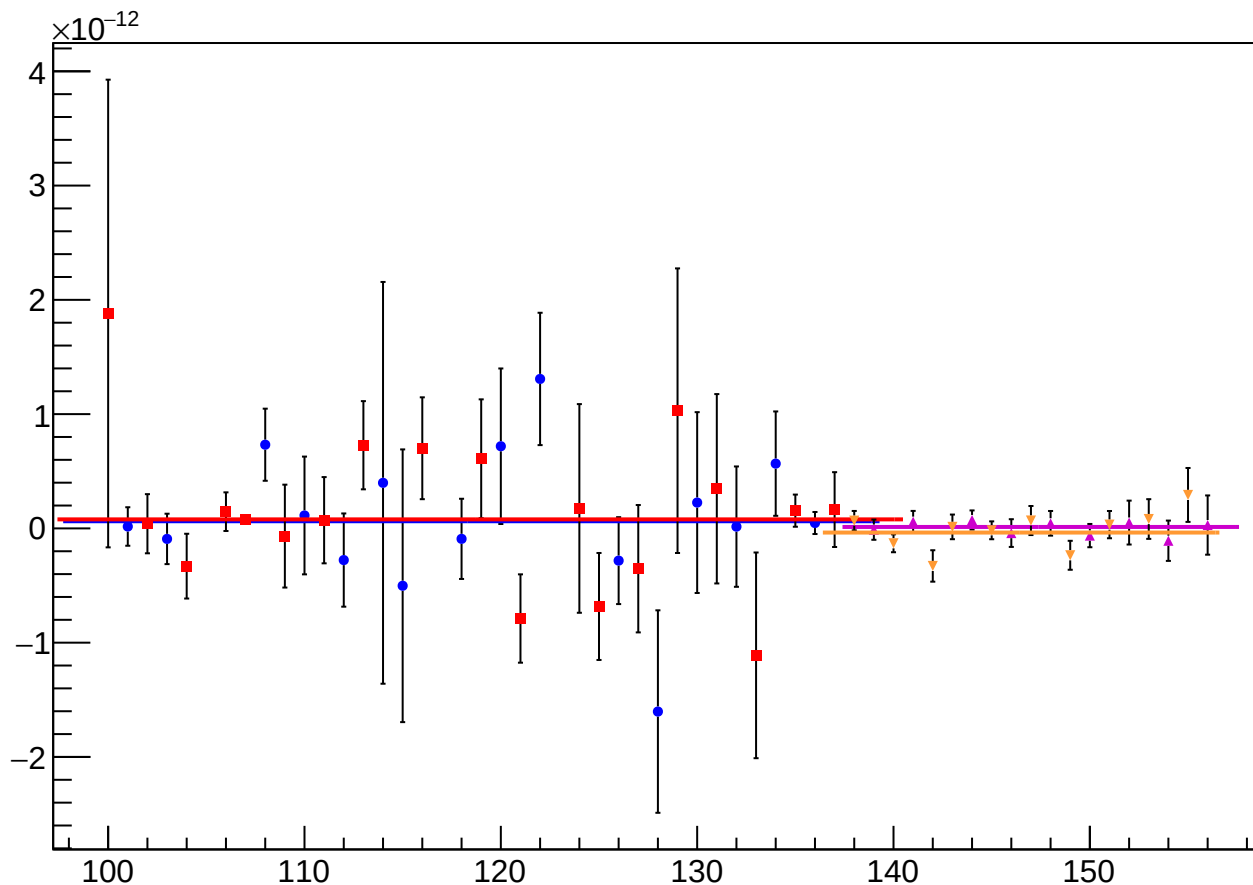
Right: 4196.010+/-0.801 χ^2/NDF : 1683524.5/34

In: 4208.378+/-0.779 χ^2/NDF : 868321.2/24

Out: 3970.523+/-0.738 χ^2/NDF : 1368585.8/28

All: 4082.989+/-0.536 χ^2/NDF : 2285996.5/53

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 : 13.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 20.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.2/8

Left: -0.000+/-0.000 χ^2/NDF : 16.8/18

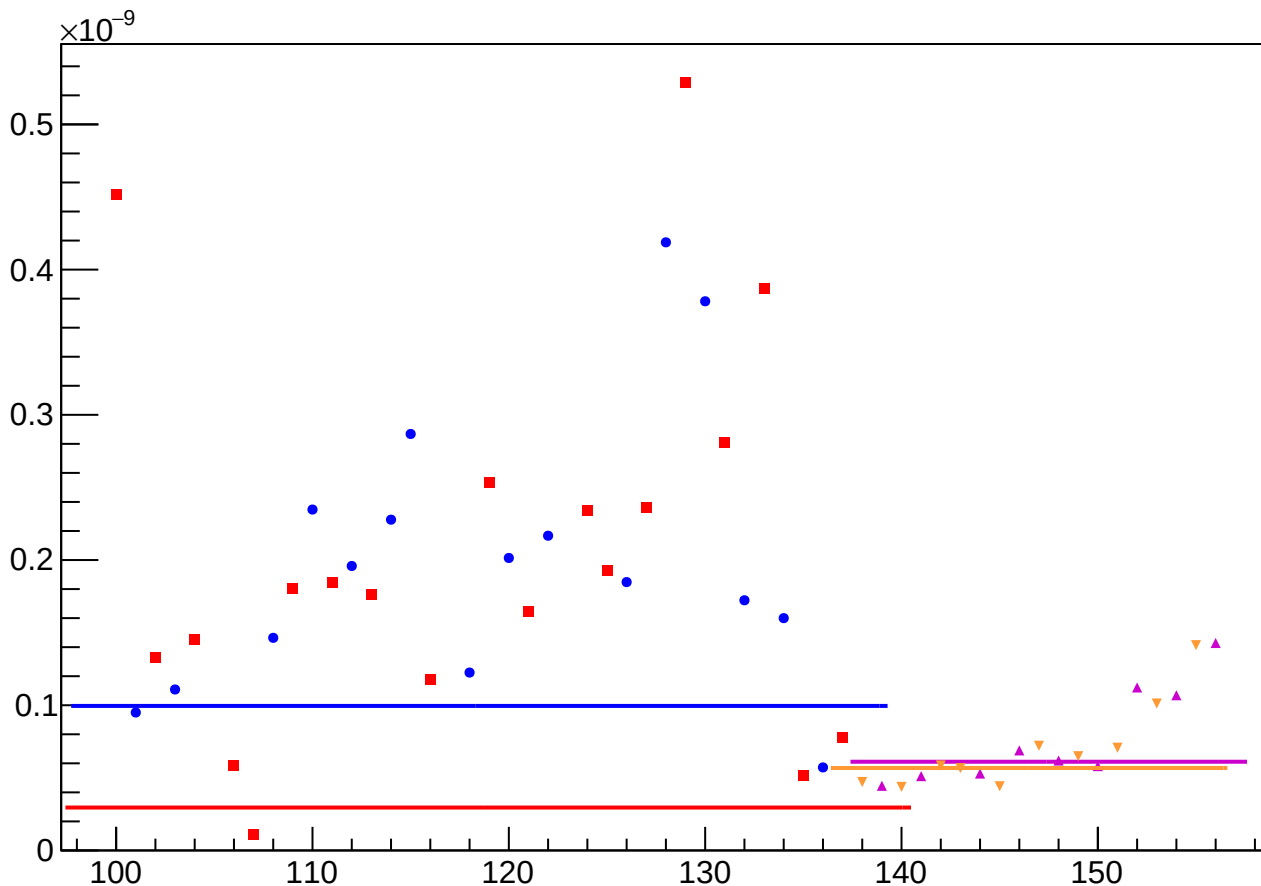
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: 0.000+/-0.000 χ^2/NDF : 20.0/24

Out: 0.000+/-0.000 χ^2/NDF : 39.5/28

All: 0.000+/-0.000 χ^2/NDF : 59.6/53

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 : 585633.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4363474.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 596886.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1196934.9/18

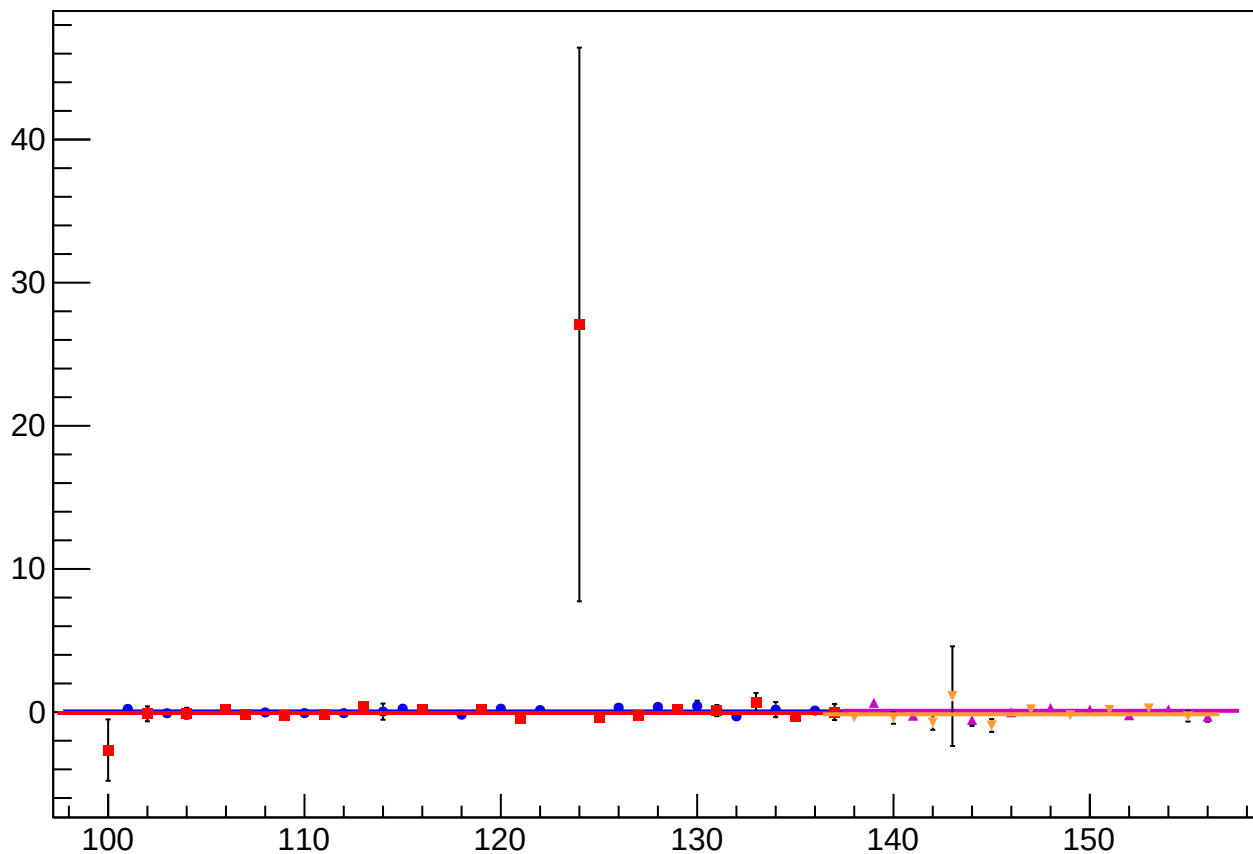
Right: 0.000+/-0.000 χ^2/NDF : 7631581.8/34

In: 0.000+/-0.000 χ^2/NDF : 2648233.4/24

Out: 0.000+/-0.000 χ^2/NDF : 5598094.4/28

All: 0.000+/-0.000 χ^2/NDF : 9149247.6/53

asym_atl1r2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048+/-0.066 χ^2/NDF : 7.6/15

Left Out: -0.155+/-0.112 χ^2/NDF : 9.6/9

Right Out: -0.061+/-0.064 χ^2/NDF : 18.4/18

Left In: 0.090+/-0.101 χ^2/NDF : 11.9/8

Left: -0.020+/-0.075 χ^2/NDF : 24.1/18

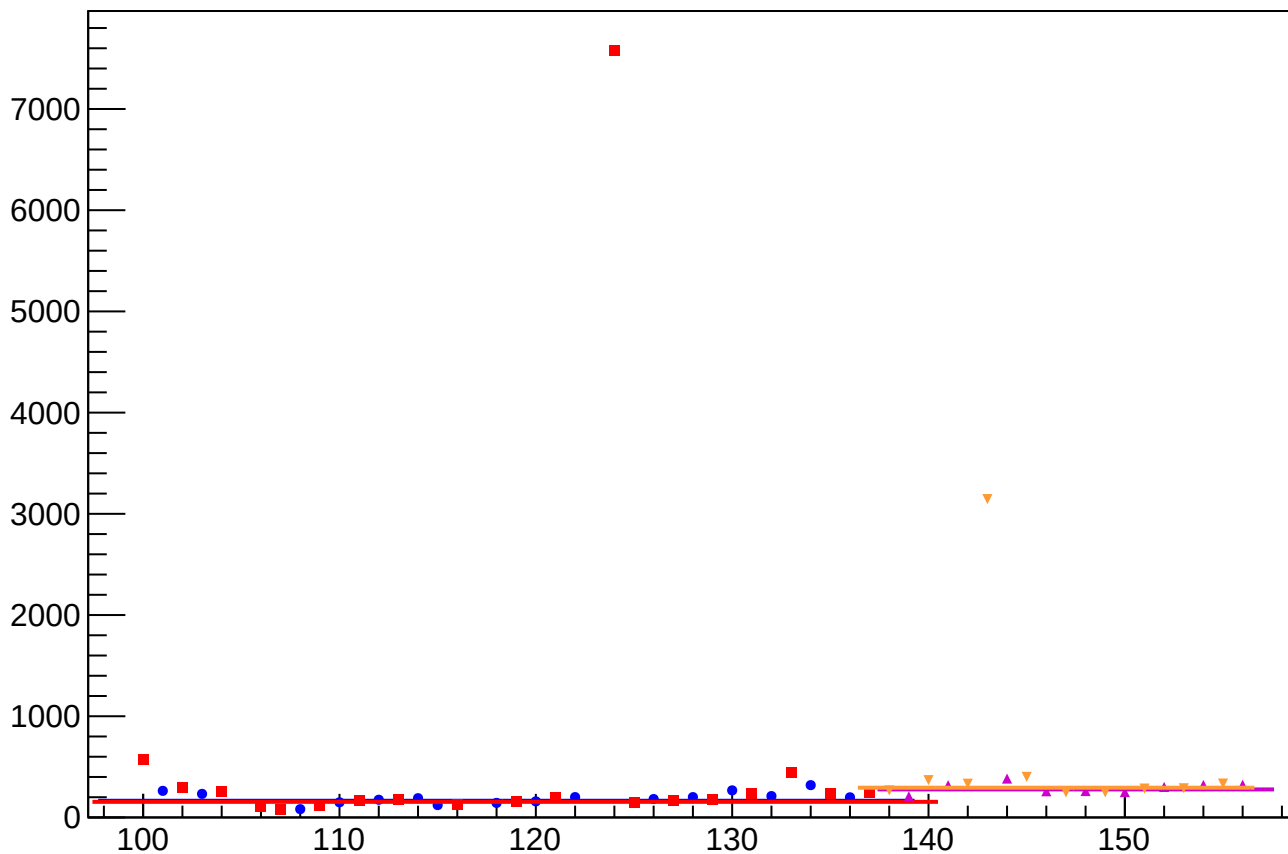
Right: -0.008+/-0.046 χ^2/NDF : 27.4/34

In: 0.061+/-0.056 χ^2/NDF : 19.6/24

Out: -0.085+/-0.056 χ^2/NDF : 28.5/28

All: -0.012+/-0.039 χ^2/NDF : 51.6/53

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: 294.100 $\pm$ 0.079 χ^2 /NDF:1690130.5/9

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921322.6/18

Left In: 276.918 $\pm$ 0.072 χ^2 /NDF:441188.4/8

Left: 284.653 $\pm$ 0.053 χ^2 /NDF: 2157190.2/18

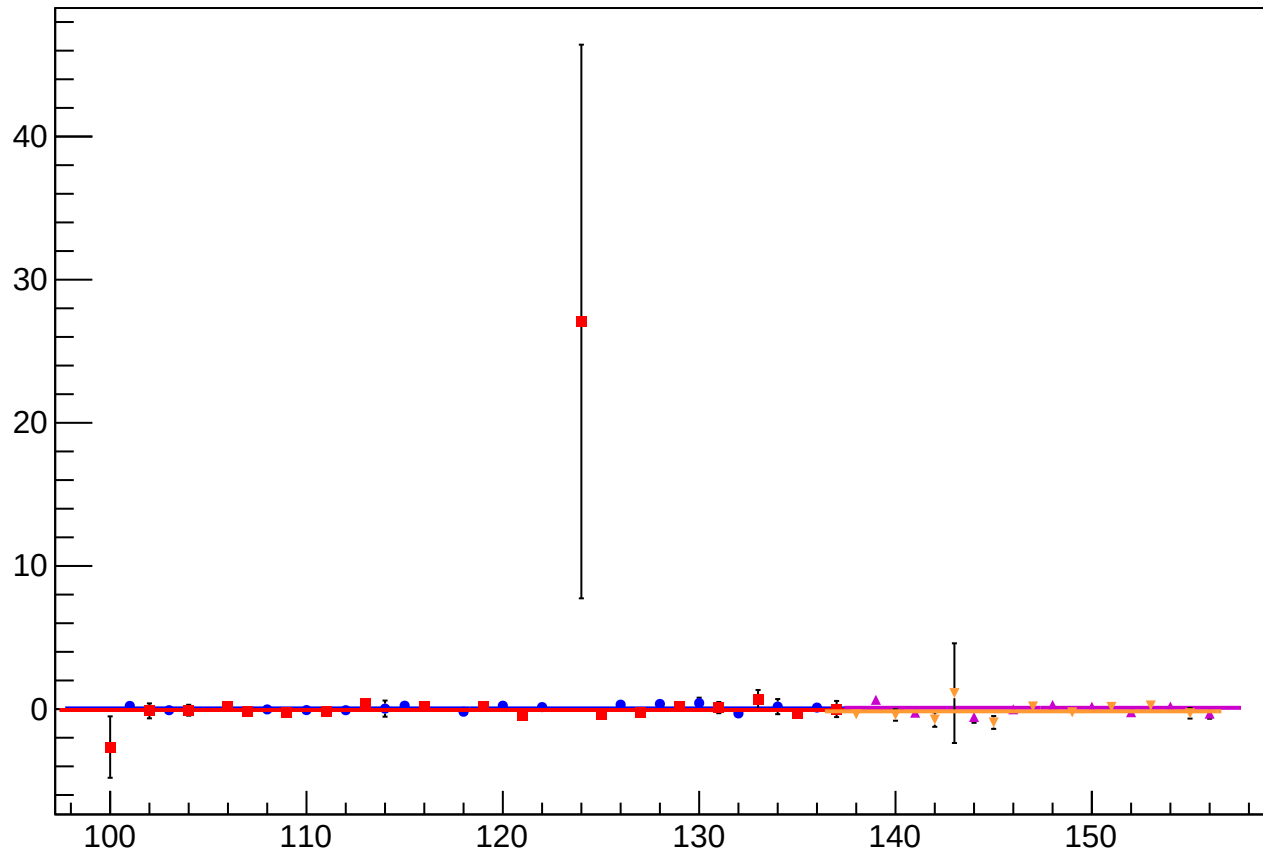
Right: 159.465 $\pm$ 0.033 χ^2 /NDF: 3421679.3/34

In: 198.514 $\pm$ 0.039 χ^2 /NDF:3626125.3/24

Out: 189.096 $\pm$ 0.039 χ^2 /NDF:5949652.6/28

All: 193.829 $\pm$ 0.028 χ^2 /NDF: 9604374.5/53

asym_atl1r2_dd_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: -0.155 ± 0.112 $\chi^2/\text{NDF}: 9.6/9$

Right Out: -0.061 ± 0.064 $\chi^2/\text{NDF}: 18.4/18$

Left In: 0.090 ± 0.101 $\chi^2/\text{NDF}: 11.9/8$

Left: -0.020 ± 0.075 $\chi^2/\text{NDF}: 24.1/18$

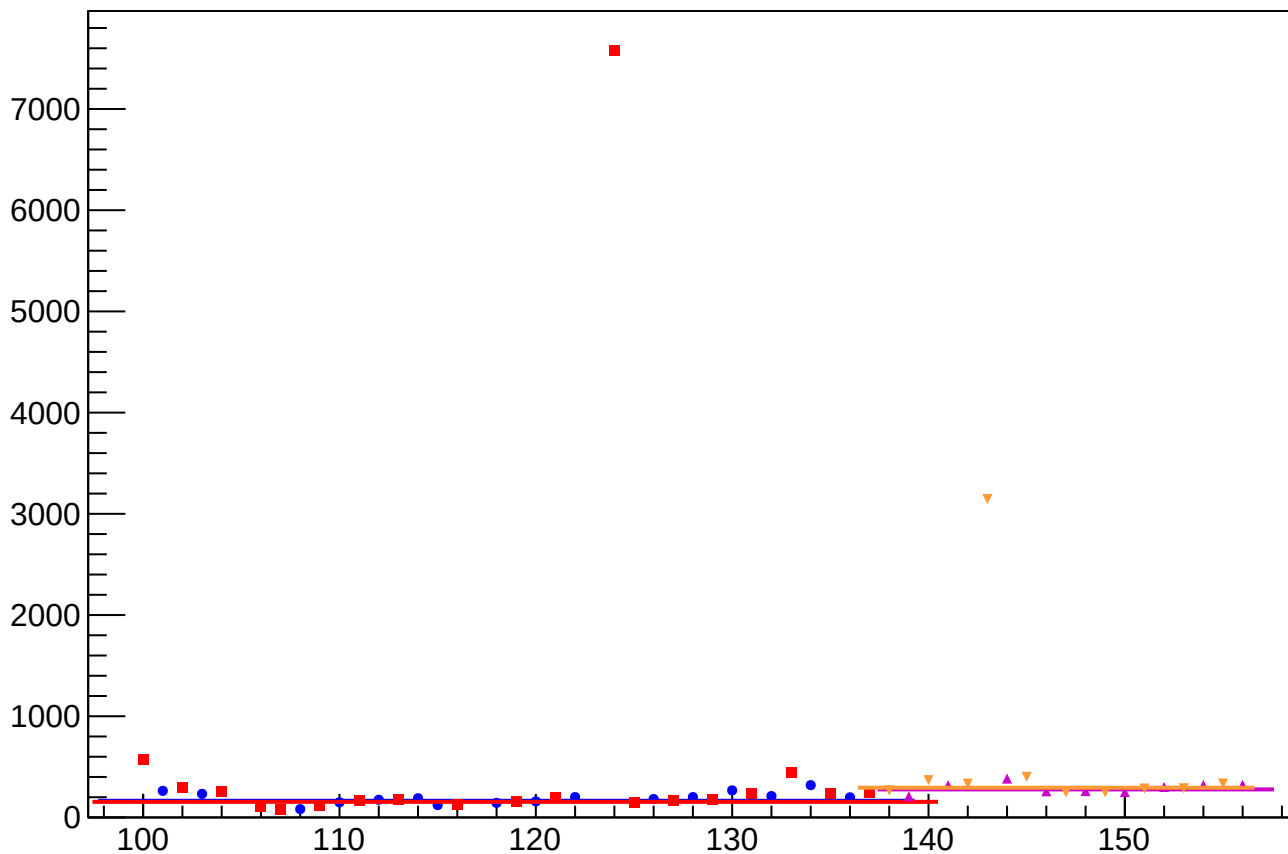
Right: -0.008 ± 0.046 $\chi^2/\text{NDF}: 27.4/34$

In: 0.061 ± 0.056 $\chi^2/\text{NDF}: 19.6/24$

Out: -0.085 ± 0.056 $\chi^2/\text{NDF}: 28.5/28$

All: -0.012 ± 0.039 $\chi^2/\text{NDF}: 51.6/53$

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474718.1/15

Left Out: 294.100 $\pm$ 0.079 χ^2 /NDF:1690130.5/9

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921322.6/18

Left In: 276.918 $\pm$ 0.072 χ^2 /NDF:441188.4/8

Left: 284.653 $\pm$ 0.053 χ^2 /NDF: 2157190.2/18

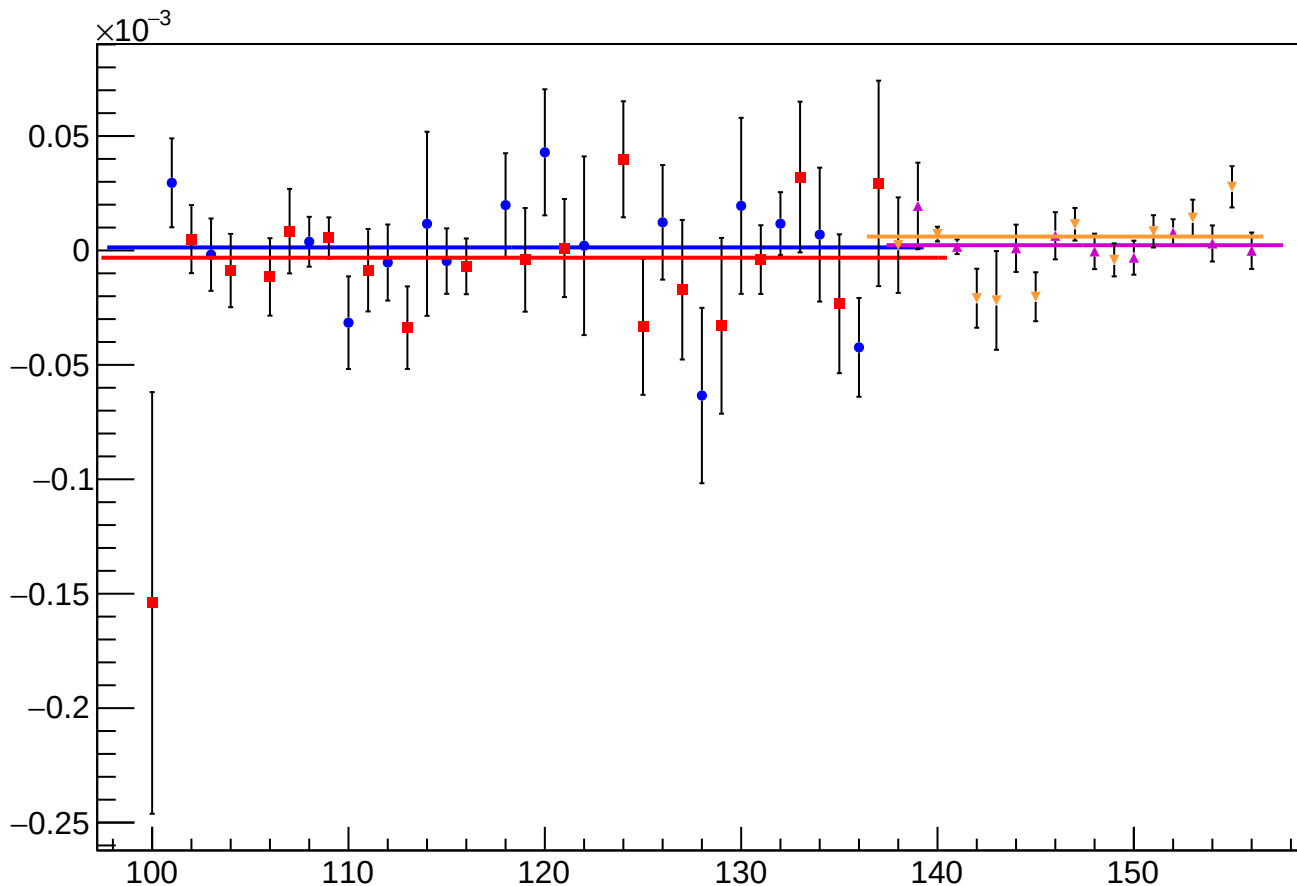
Right: 159.465 $\pm$ 0.033 χ^2 /NDF: 3421679.3/34

In: 198.514 $\pm$ 0.039 χ^2 /NDF:3626125.3/24

Out: 189.096 $\pm$ 0.039 χ^2 /NDF:5949652.6/28

All: 193.829 $\pm$ 0.028 χ^2 /NDF: 9604374.5/53

asym_atl1r2_dd_eigen_dit_vs_dit_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 : 21.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 14.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.7/8

Left: 0.000+/-0.000 χ^2/NDF : 26.0/18

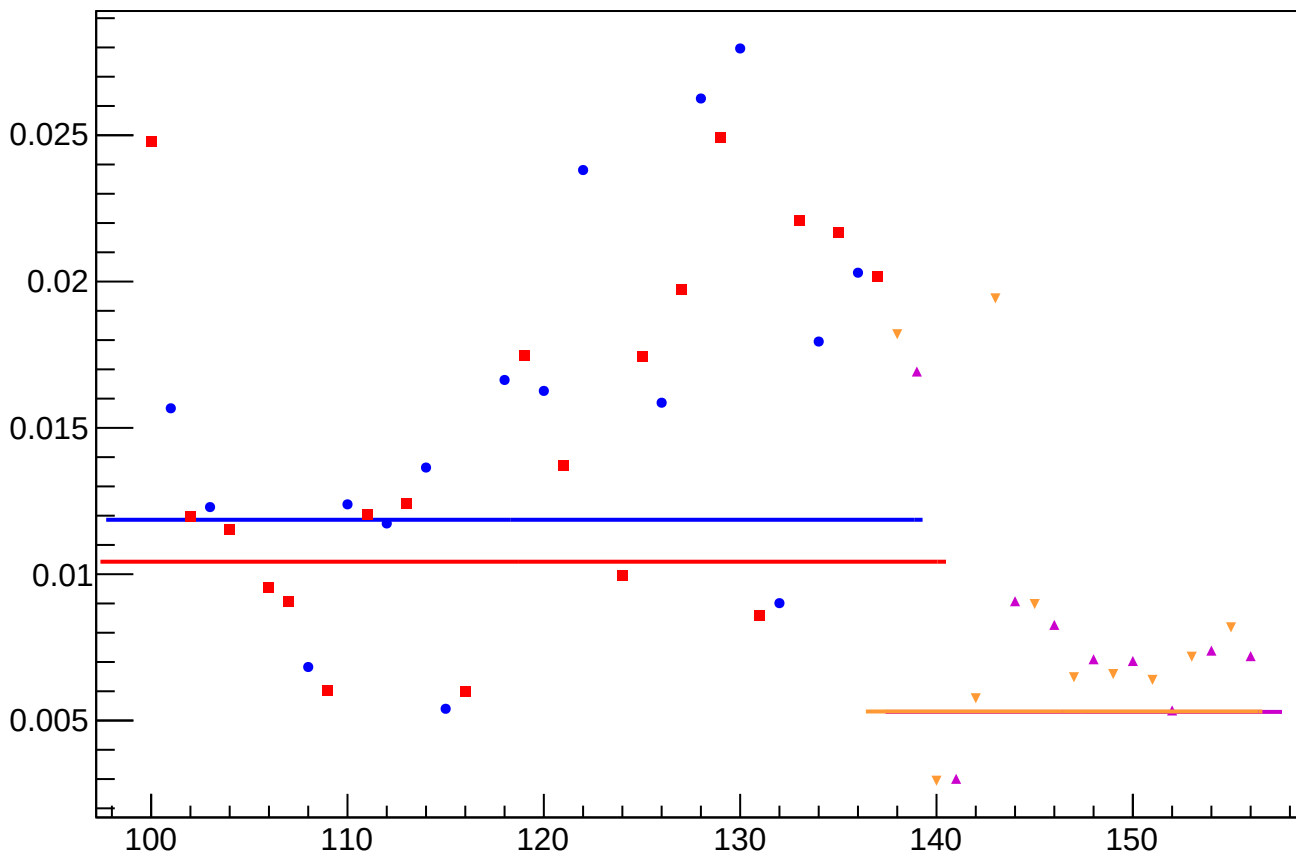
Right: -0.000+/-0.000 χ^2/NDF : 31.2/34

In: 0.000+/-0.000 χ^2/NDF : 18.9/24

Out: 0.000+/-0.000 χ^2/NDF : 40.1/28

All: 0.000+/-0.000 χ^2/NDF : 59.5/53

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: 0.005 $\pm$ 0.000 χ^2 /NDF:3422087.8/9

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 2355101.8/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2681648.5/8

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 6103778.4/18

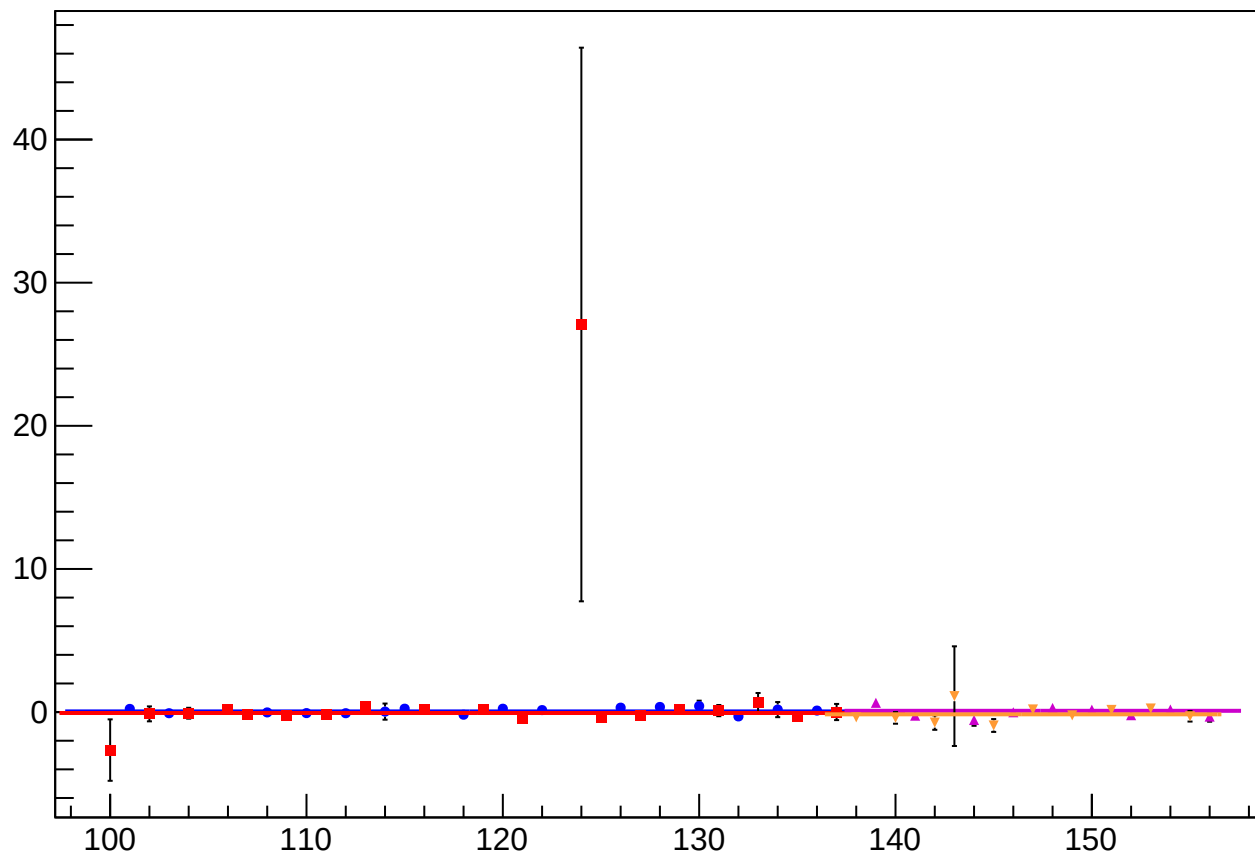
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 4860752.3/34

In: 0.006 $\pm$ 0.000 χ^2 /NDF:8123564.8/24

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8067468.9/28

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 16191419.6/53

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 ± 0.066 $\chi^2/\text{NDF}: 7.6/15$

Left Out: -0.155 ± 0.112 $\chi^2/\text{NDF}: 9.6/9$

Right Out: -0.061 ± 0.064 $\chi^2/\text{NDF}: 18.4/18$

Left In: 0.090 ± 0.101 $\chi^2/\text{NDF}: 11.9/8$

Left: -0.020 ± 0.075 $\chi^2/\text{NDF}: 24.1/18$

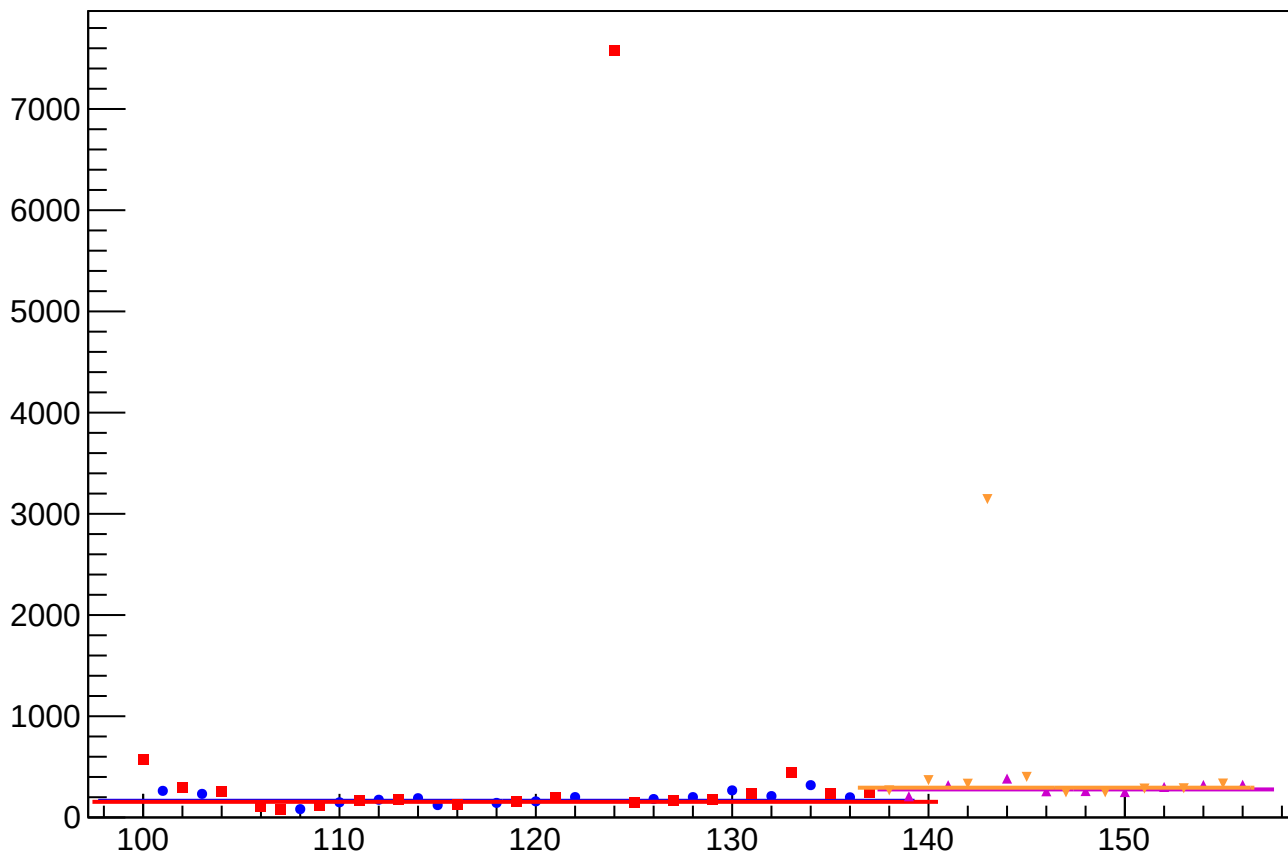
Right: -0.008 ± 0.046 $\chi^2/\text{NDF}: 27.4/34$

In: 0.061 ± 0.056 $\chi^2/\text{NDF}: 19.6/24$

Out: -0.085 ± 0.056 $\chi^2/\text{NDF}: 28.5/28$

All: -0.012 ± 0.039 $\chi^2/\text{NDF}: 51.6/53$

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474692.6/15

Left Out: 294.103 $\pm$ 0.079 χ^2 /NDF:1690108.2/9

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921346.3/18

Left In: 276.921 $\pm$ 0.072 χ^2 /NDF:441159.1/8

Left: 284.656 $\pm$ 0.053 χ^2 /NDF: 2157138.5/18

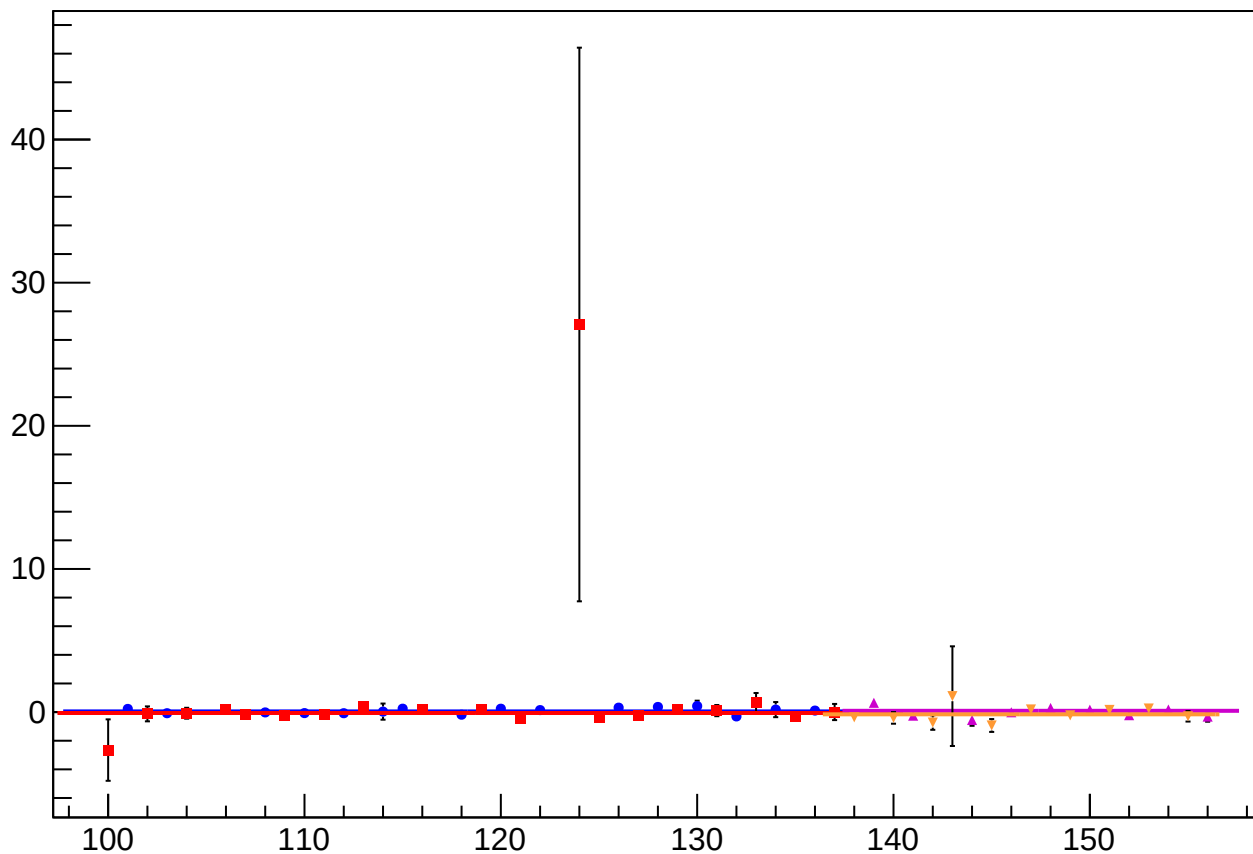
Right: 159.464 $\pm$ 0.033 χ^2 /NDF: 3421678.1/34

In: 198.514 $\pm$ 0.039 χ^2 /NDF:3626152.6/24

Out: 189.096 $\pm$ 0.039 χ^2 /NDF:5949742.6/28

All: 193.829 $\pm$ 0.028 χ^2 /NDF: 9604492.7/53

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: -0.155 ± 0.112 $\chi^2/\text{NDF}: 9.6/9$

Right Out: -0.061 ± 0.064 $\chi^2/\text{NDF}: 18.4/18$

Left In: 0.090 ± 0.101 $\chi^2/\text{NDF}: 11.9/8$

Left: -0.020 ± 0.075 $\chi^2/\text{NDF}: 24.1/18$

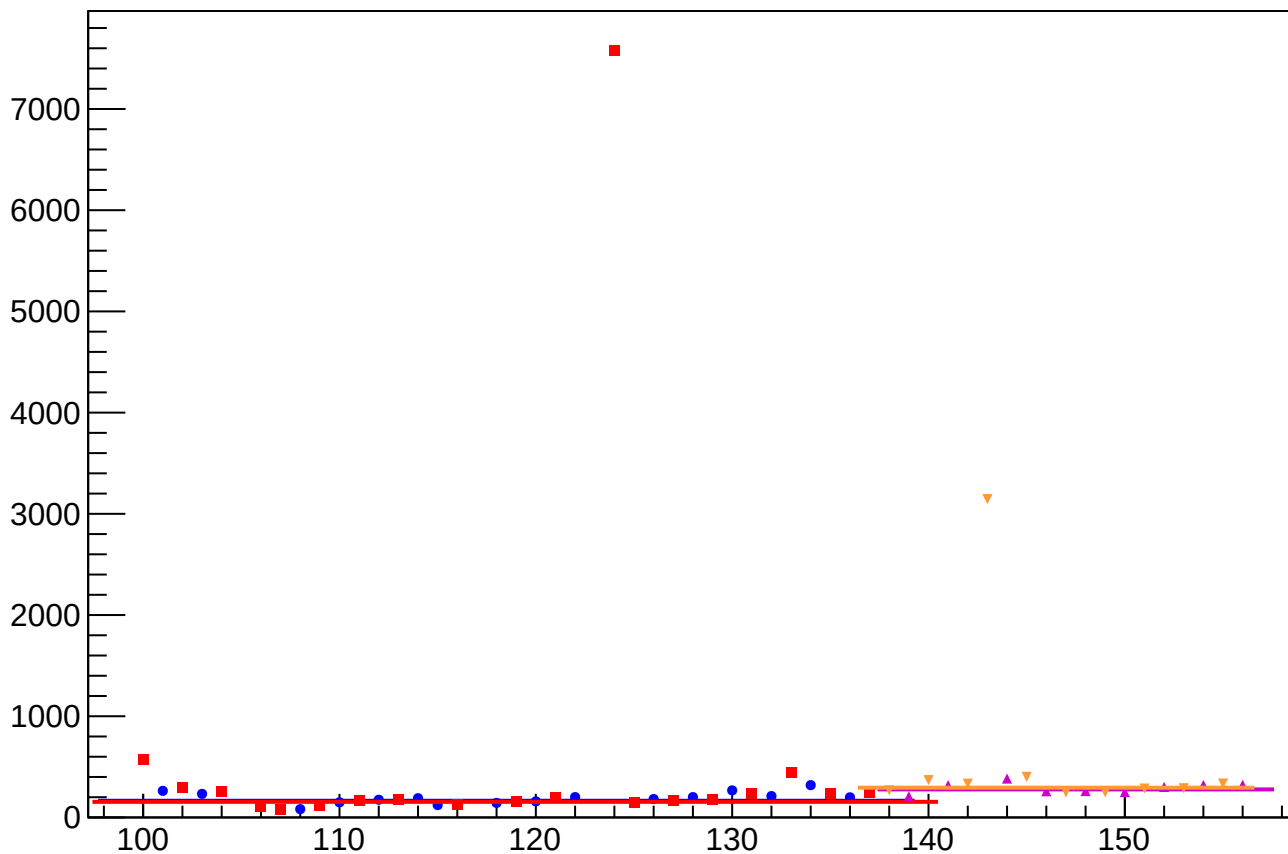
Right: -0.008 ± 0.046 $\chi^2/\text{NDF}: 27.4/34$

In: 0.061 ± 0.056 $\chi^2/\text{NDF}: 19.6/24$

Out: -0.085 ± 0.056 $\chi^2/\text{NDF}: 28.5/28$

All: -0.012 ± 0.039 $\chi^2/\text{NDF}: 51.6/53$

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474692.6/15

Left Out: 294.103 $\pm$ 0.079 χ^2 /NDF:1690108.2/9

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921346.3/18

Left In: 276.921 $\pm$ 0.072 χ^2 /NDF:441159.1/8

Left: 284.656 $\pm$ 0.053 χ^2 /NDF: 2157138.5/18

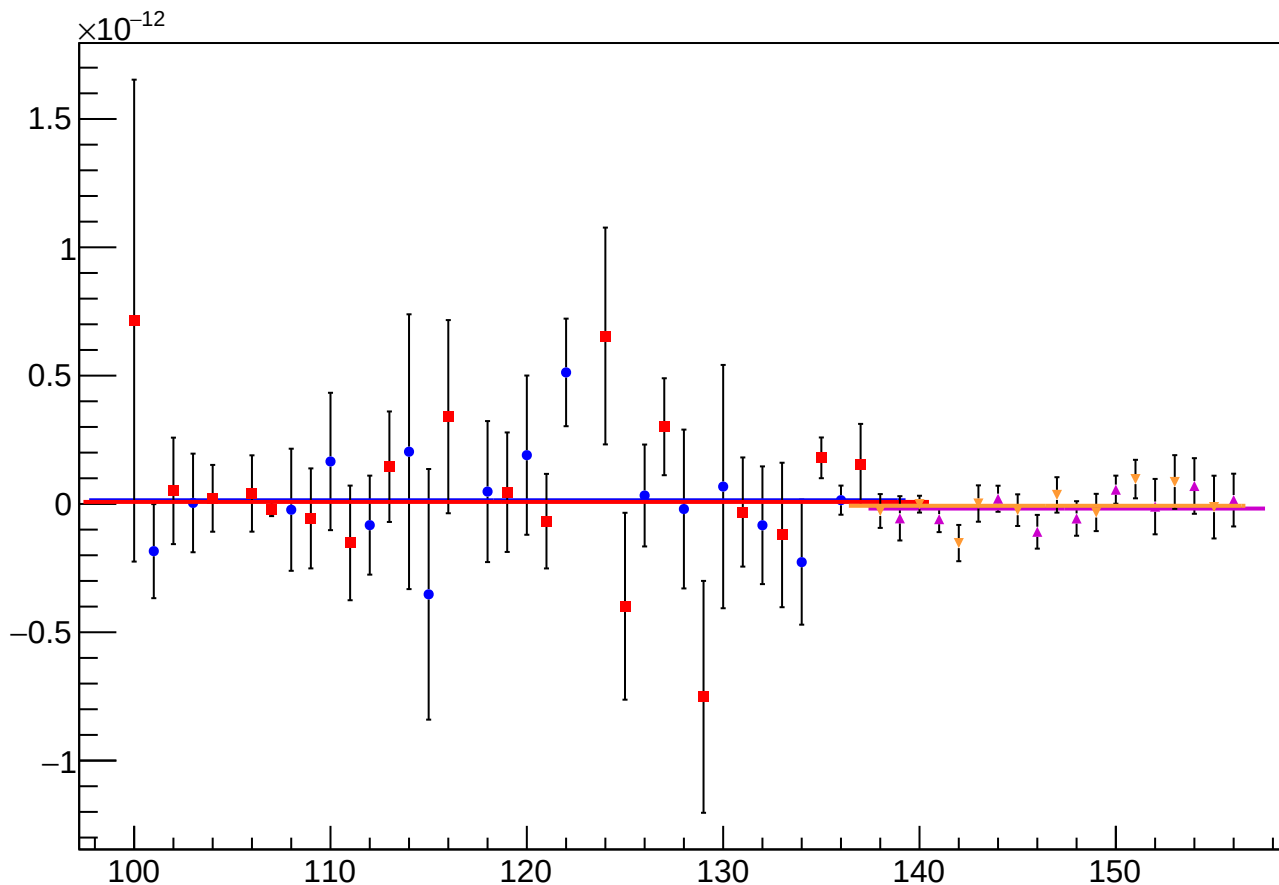
Right: 159.464 $\pm$ 0.033 χ^2 /NDF: 3421678.1/34

In: 198.514 $\pm$ 0.039 χ^2 /NDF:3626152.6/24

Out: 189.096 $\pm$ 0.039 χ^2 /NDF:5949742.6/28

All: 193.829 $\pm$ 0.028 χ^2 /NDF: 9604492.7/53

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 7.7/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.4/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 6.2/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.0/18

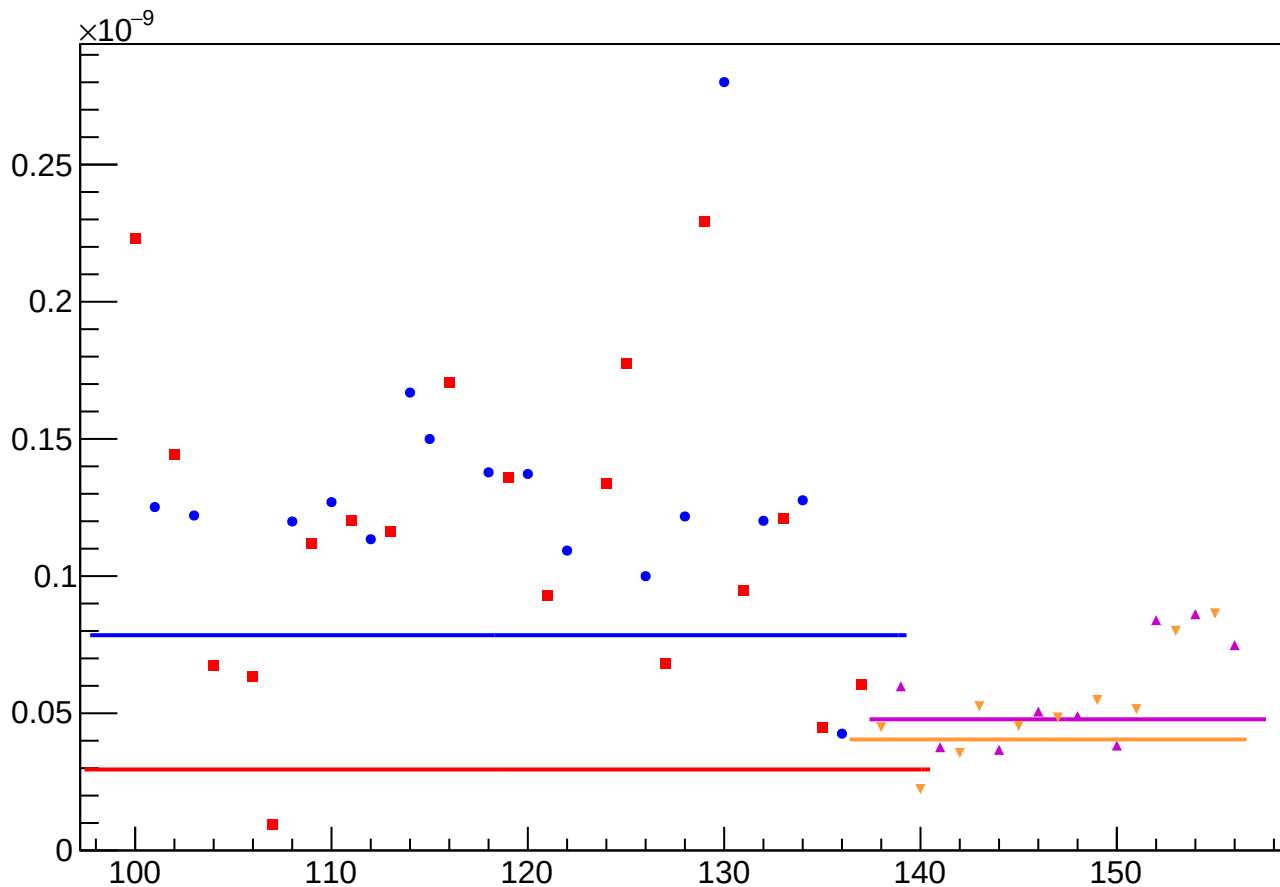
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 28.0/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.3/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 26.3/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 42.7/53

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 : 1415527.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 5487361.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 894199.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2429675.6/18

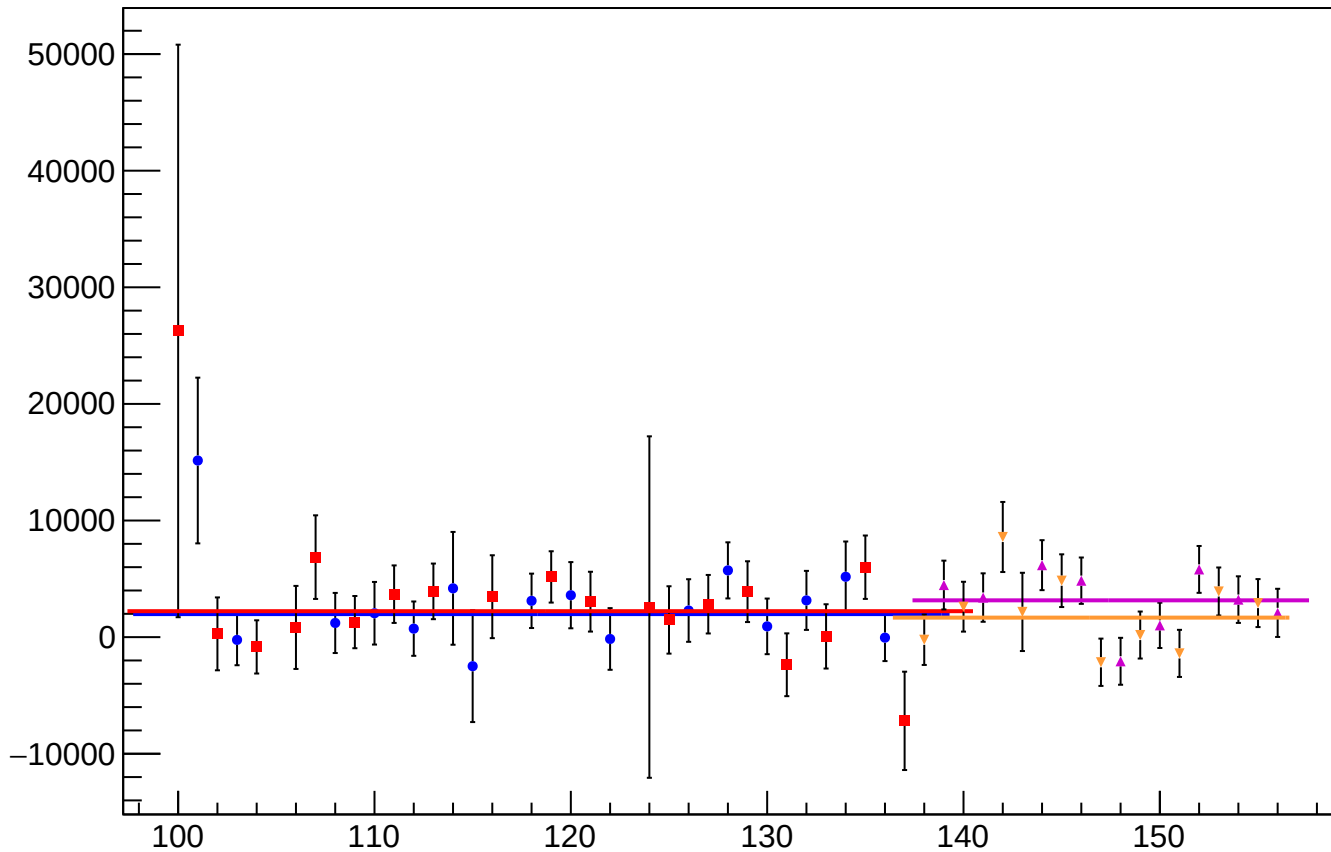
Right: 0.000+/-0.000 χ^2/NDF : 9651358.8/34

In: 0.000+/-0.000 χ^2/NDF : 3812056.7/24

Out: 0.000+/-0.000 χ^2/NDF : 7163664.0/28

All: 0.000+/-0.000 χ^2/NDF : 12110653.5/53

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1976.299+/-667.710 χ^2/NDF : 12.1/15

Left Out: 1673.865+/-700.910 χ^2/NDF : 16.2/9

Right Out: 2226.171+/-656.286 χ^2/NDF : 19.0/18

Left In: 3156.340+/-677.969 χ^2/NDF : 13.1/8

Left: 2439.760+/-487.305 χ^2/NDF : 31.6/18

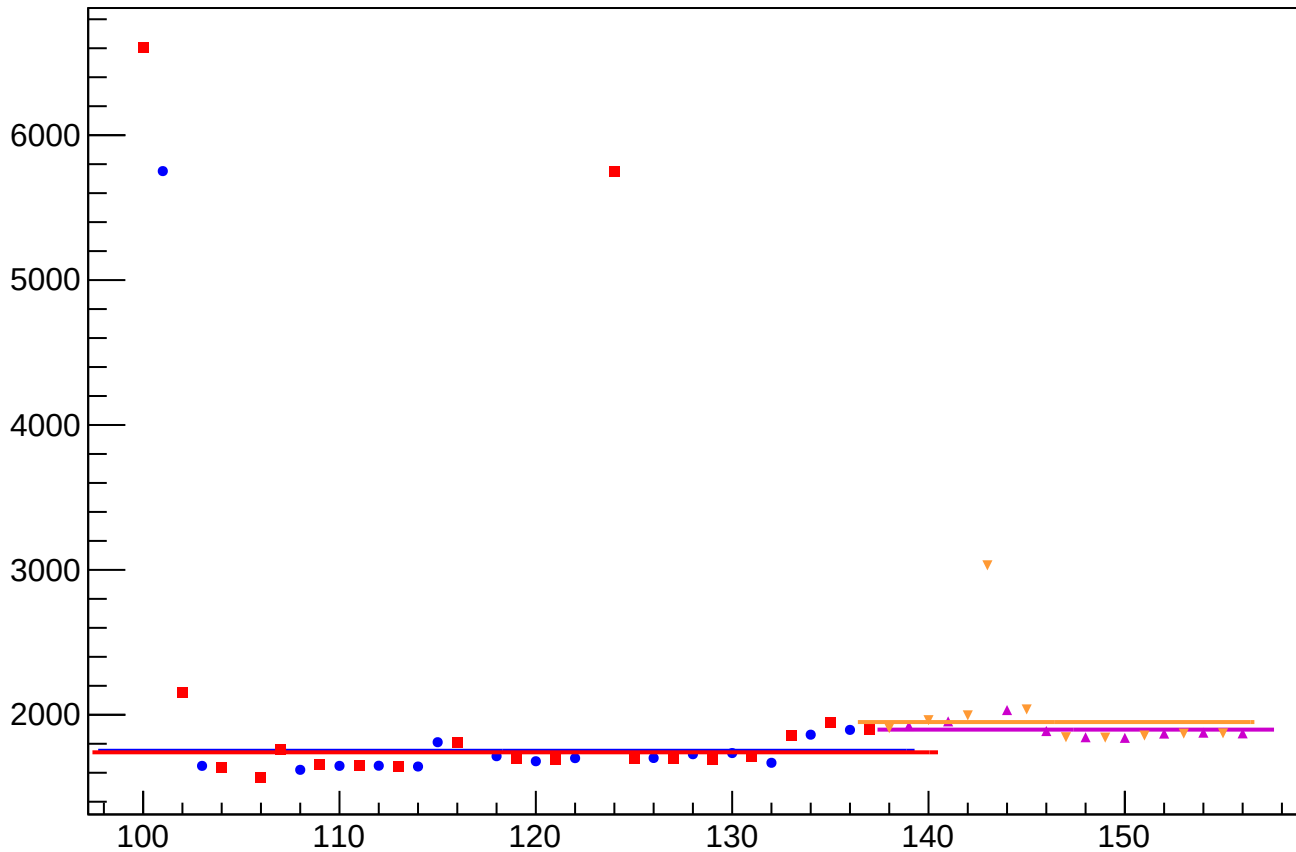
Right: 2103.390+/-468.051 χ^2/NDF : 31.2/34

In: 2557.323+/-475.728 χ^2/NDF : 26.7/24

Out: 1968.157+/-479.064 χ^2/NDF : 35.5/28

All: 2264.799+/-337.564 χ^2/NDF : 63.0/53

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.607 $\pm$ 0.472 χ^2 /NDF: 670651.4/15

Left Out: 1949.832 $\pm$ 0.496 χ^2 /NDF: 233204.1/9

Right Out: 1741.052 $\pm$ 0.461 χ^2 /NDF: 304655.0/18

Left In: 1897.618 $\pm$ 0.479 χ^2 /NDF: 13750.4/8

Left: 1922.857 $\pm$ 0.345 χ^2 /NDF: 252688.5/18

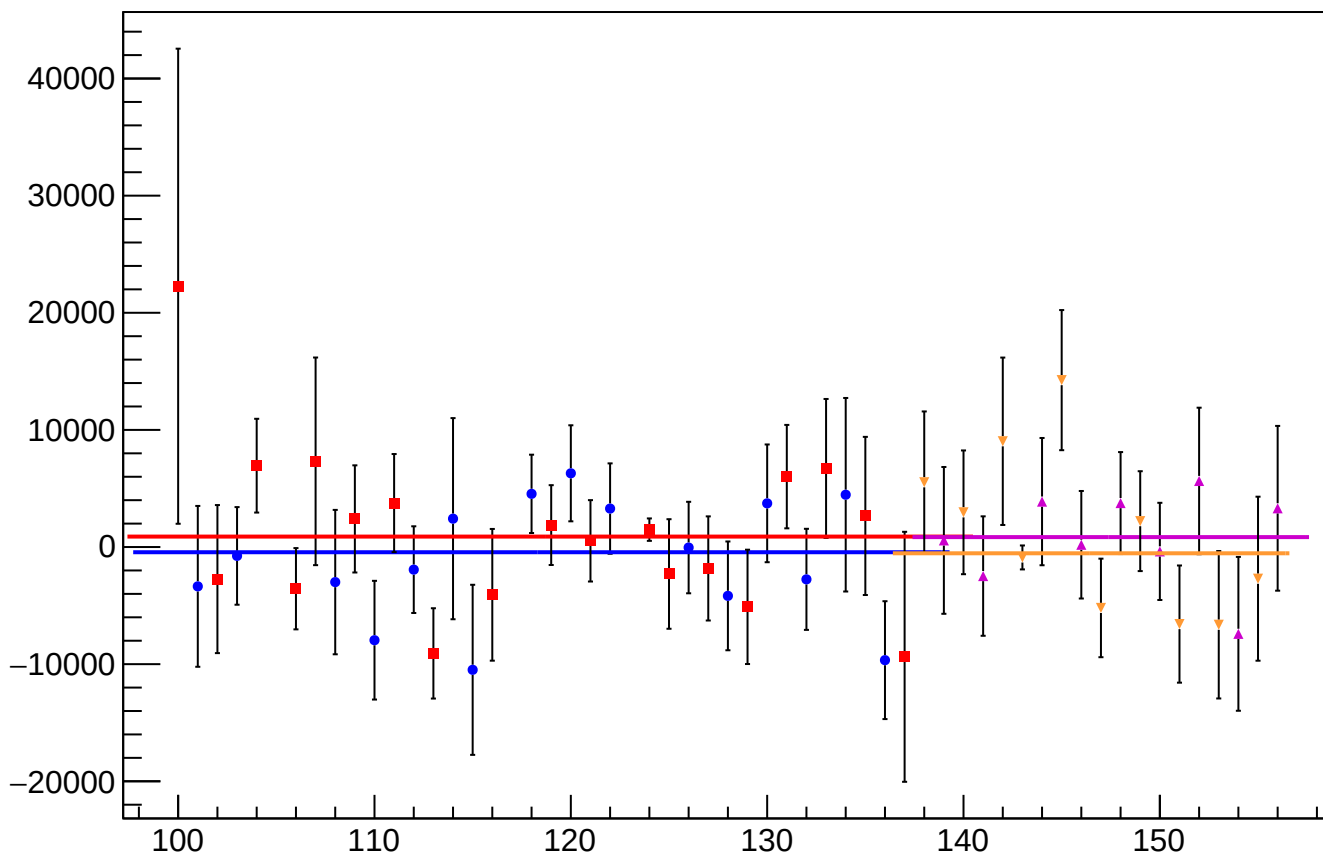
Right: 1746.199 $\pm$ 0.330 χ^2 /NDF: 975562.4/34

In: 1823.499 $\pm$ 0.336 χ^2 /NDF: 731491.5/24

Out: 1837.818 $\pm$ 0.337 χ^2 /NDF: 633065.8/28

All: 1830.637 $\pm$ 0.238 χ^2 /NDF: 1365460.5/53

asym_atr12_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -444.273+/-1174.448 χ^2/NDF : 15.9/15

Left Out: -534.167+/-889.284 χ^2/NDF : 13.6/9

Right Out: 892.237+/-725.737 χ^2/NDF : 20.1/18

Left In: 847.622+/-1753.829 χ^2/NDF : 3.6/8

Left: -251.563+/-793.149 χ^2/NDF : 17.7/18

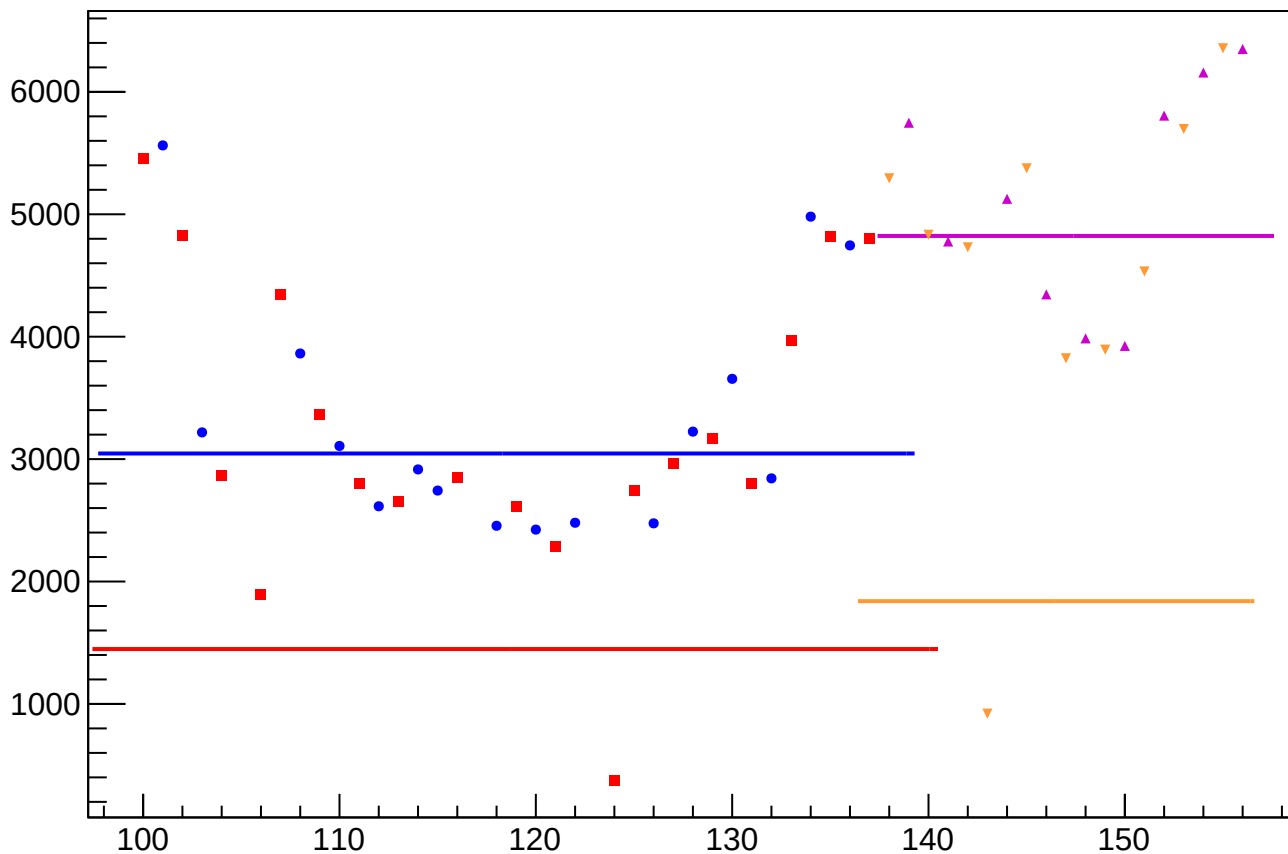
Right: 522.917+/-617.375 χ^2/NDF : 36.9/34

In: -44.307+/-975.855 χ^2/NDF : 19.9/24

Out: 322.015+/-562.265 χ^2/NDF : 35.2/28

All: 230.714+/-487.183 χ^2/NDF : 55.2/53

asym_atr1l2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3045.917 $\pm$ 0.830 χ^2 /NDF: 907385.5/15

Left Out: 1839.616 $\pm$ 0.629 χ^2 /NDF: 7010097.9/9

Right Out: 1448.519 $\pm$ 0.513 χ^2 /NDF: 6786925.8/18

Left In: 4823.150 $\pm$ 1.240 χ^2 /NDF: 465634.9/8

Left: 2449.808 $\pm$ 0.561 χ^2 /NDF: 12079854.9/18

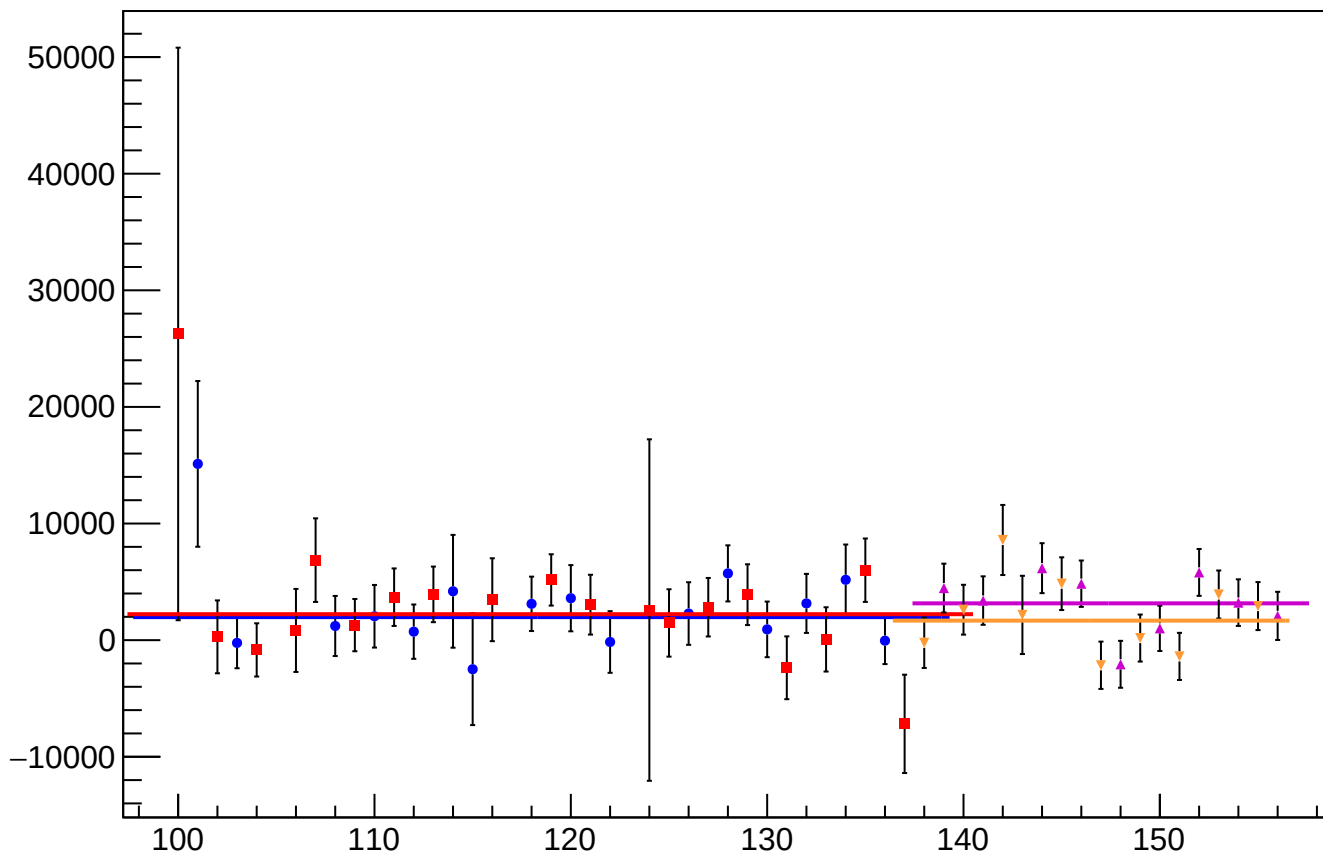
Right: 1889.931 $\pm$ 0.437 χ^2 /NDF: 10371803.4/34

In: 3596.143 $\pm$ 0.690 χ^2 /NDF: 2790925.1/24

Out: 1604.865 $\pm$ 0.398 χ^2 /NDF: 14029212.8/28

All: 2101.167 $\pm$ 0.344 χ^2 /NDF: 23072231.6/5

cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946 $\pm$ 667.710 χ^2 /NDF: 12.1/15

Left Out: 1673.889 $\pm$ 700.910 χ^2 /NDF:16.2/9

Right Out: 2226.267 $\pm$ 656.286 χ^2 /NDF: 19.0/18

Left In: 3156.521 $\pm$ 677.969 χ^2 /NDF:13.1/8

Left: 2439.865 $\pm$ 487.305 χ^2 /NDF: 31.6/18

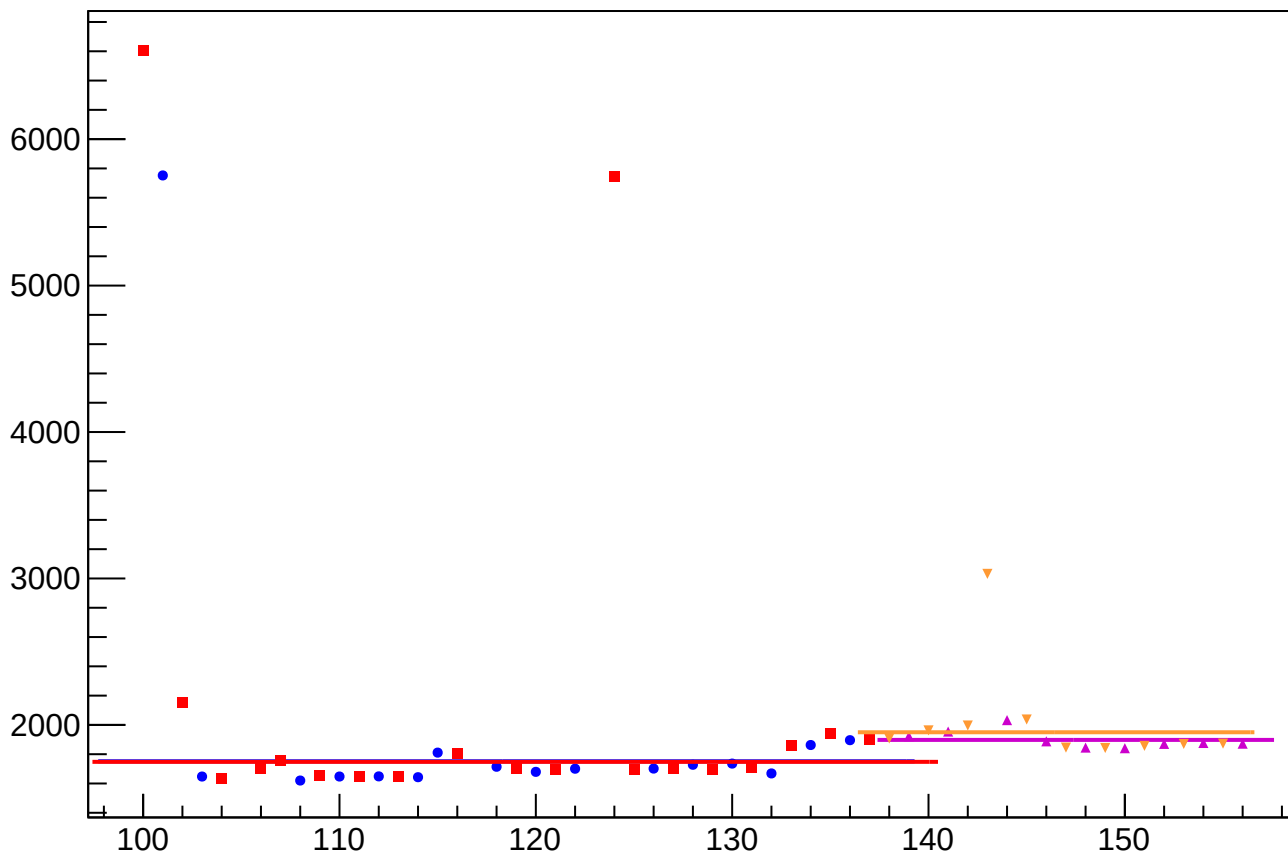
Right: 2103.266 $\pm$ 468.051 χ^2 /NDF: 31.1/34

In: 2557.233 $\pm$ 475.728 χ^2 /NDF:26.7/24

Out: 1968.220 $\pm$ 479.064 χ^2 /NDF:35.5/28

All: 2264.784 $\pm$ 337.564 χ^2 /NDF: 63.0/53

cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606 $\pm$ 0.472 χ^2 /NDF: 670651.6/15

Left Out: 1949.832 $\pm$ 0.496 χ^2 /NDF: 233204.1/9

Right Out: 1747.786 $\pm$ 0.462 χ^2 /NDF: 297917.6/18

Left In: 1897.618 $\pm$ 0.479 χ^2 /NDF: 13750.4/8

Left: 1922.857 $\pm$ 0.345 χ^2 /NDF: 252688.5/18

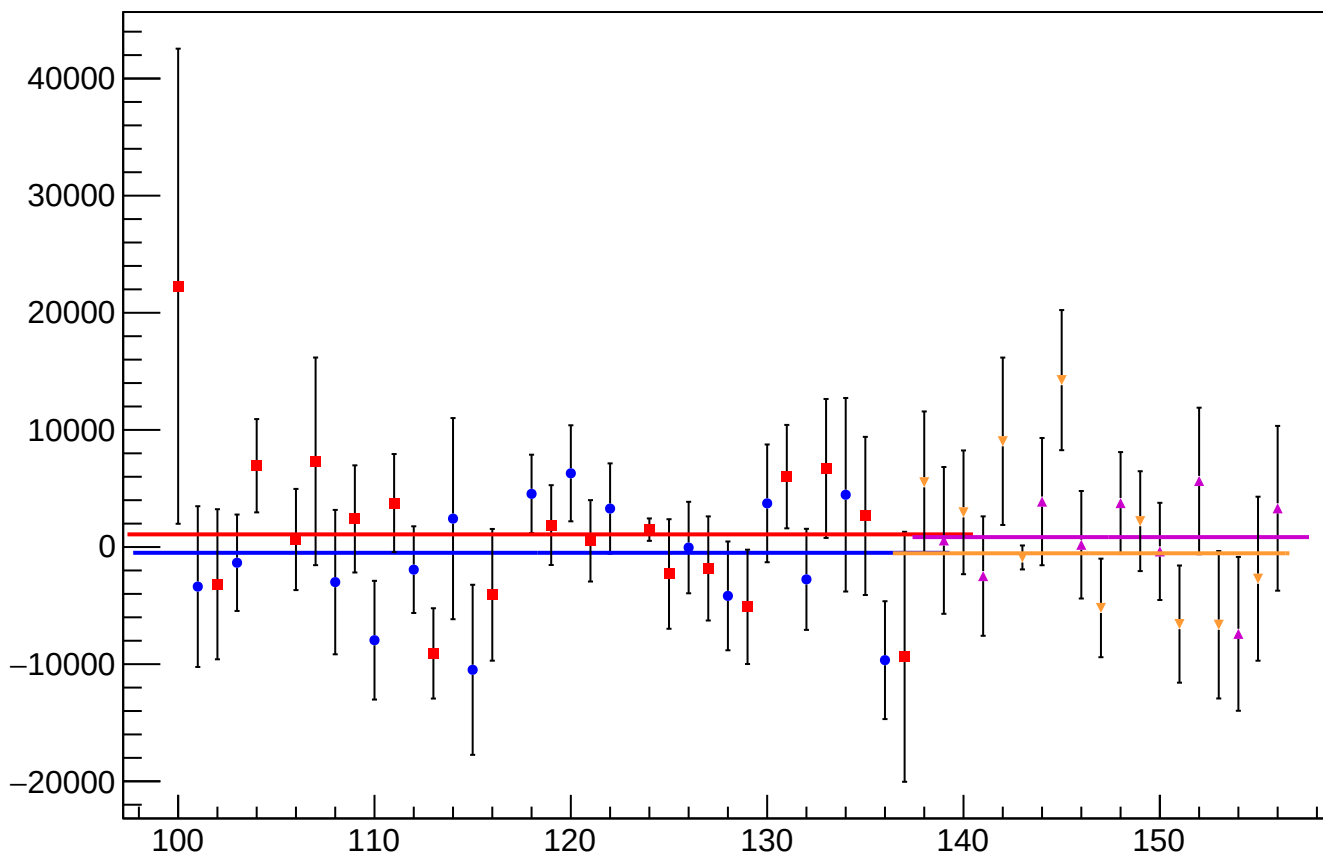
Right: 1749.656 $\pm$ 0.330 χ^2 /NDF: 968602.6/34

In: 1823.499 $\pm$ 0.336 χ^2 /NDF: 731492.0/24

Out: 1841.796 $\pm$ 0.338 χ^2 /NDF: 619985.6/28

All: 1832.602 $\pm$ 0.238 χ^2 /NDF: 1352949.4/53

asym_atr1l2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -492.916+/-1173.239 χ^2/NDF : 16.0/15

Left Out: -533.983+/-889.256 χ^2/NDF : 13.6/9

Right Out: 1080.924+/-731.458 χ^2/NDF : 18.5/18

Left In: 847.724+/-1753.828 χ^2/NDF : 3.6/8

Left: -251.410+/-793.130 χ^2/NDF : 17.7/18

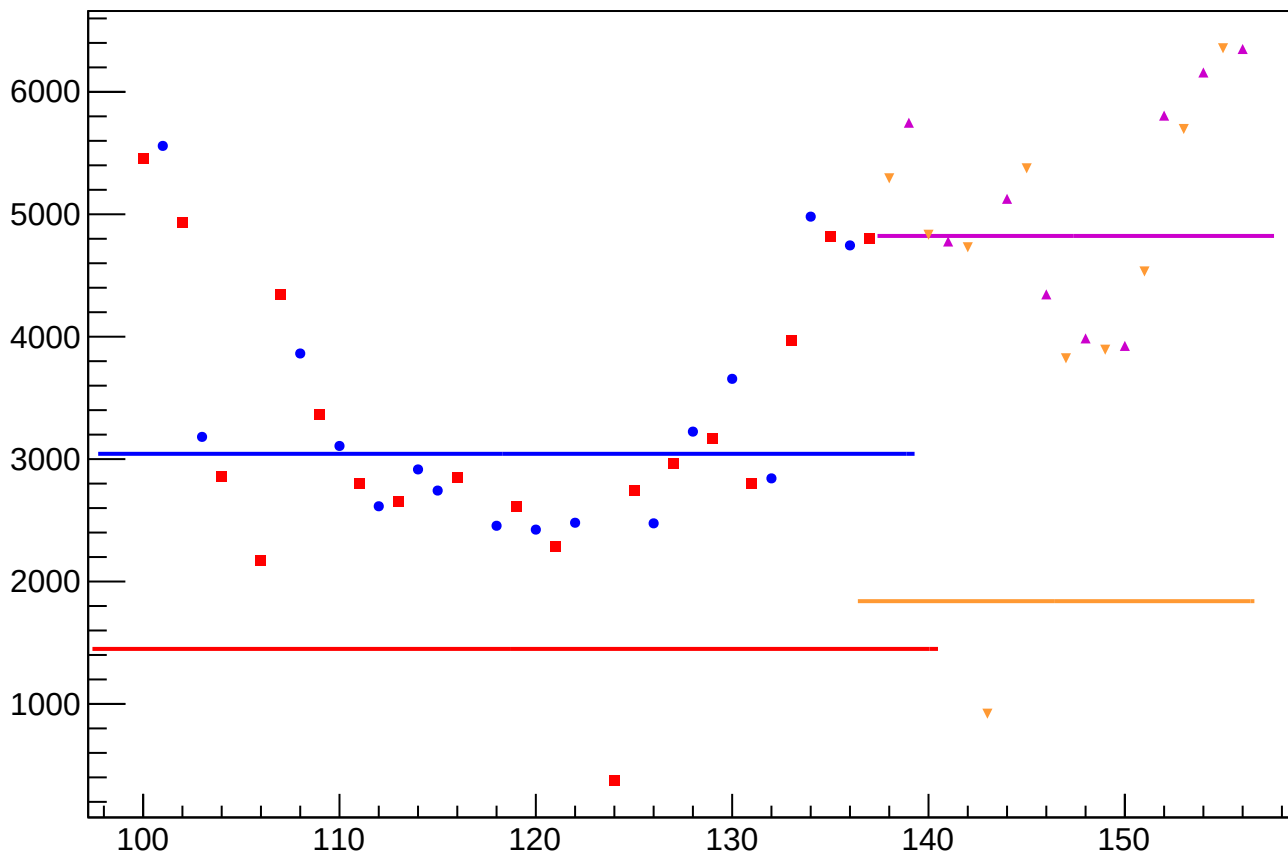
Right: 640.409+/-620.707 χ^2/NDF : 35.7/34

In: -78.448+/-975.161 χ^2/NDF : 20.0/24

Out: 429.227+/-564.906 χ^2/NDF : 34.0/28

All: 301.667+/-488.811 χ^2/NDF : 54.2/53

asym_atr1l2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3043.270+/-0.830 χ^2/NDF : 905659.7/15

Left Out: 1839.531+/-0.629 χ^2/NDF : 7010351.8/9

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 4823.149+/-1.240 χ^2/NDF : 465633.1/8

Left: 2449.710+/-0.561 χ^2/NDF : 12080429.2/18

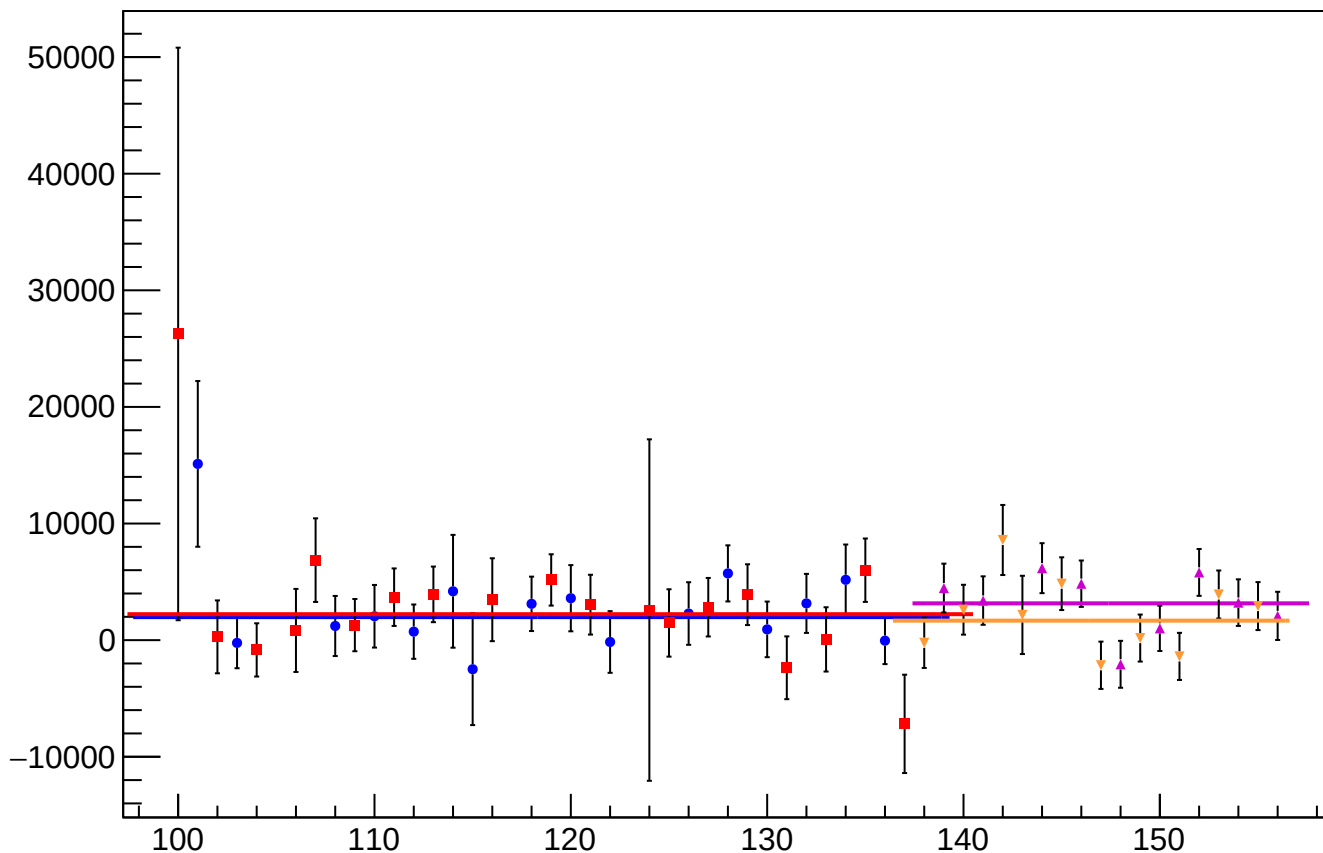
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3593.532+/-0.690 χ^2/NDF : 2794331.1/24

Out: 1606.907+/-0.399 χ^2/NDF : 14065531.2/28

All: 2106.072+/-0.346 χ^2/NDF : 23074820.8/5

eigen_cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946+/-667.710 χ^2/NDF : 12.1/15

Left Out: 1673.889+/-700.910 χ^2/NDF : 16.2/9

Right Out: 2226.267+/-656.286 χ^2/NDF : 19.0/18

Left In: 3156.521+/-677.969 χ^2/NDF : 13.1/8

Left: 2439.865+/-487.305 χ^2/NDF : 31.6/18

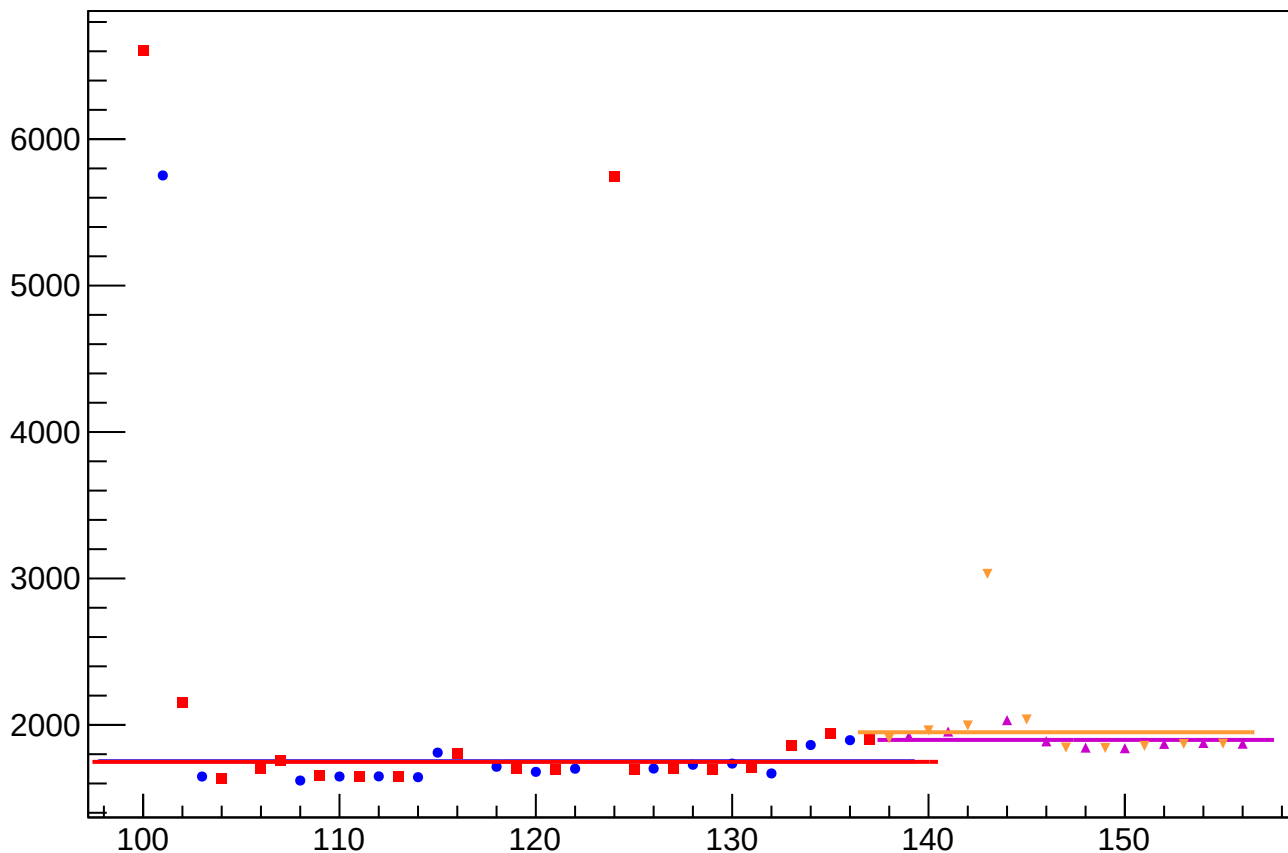
Right: 2103.266+/-468.051 χ^2/NDF : 31.1/34

In: 2557.233+/-475.728 χ^2/NDF : 26.7/24

Out: 1968.220+/-479.064 χ^2/NDF : 35.5/28

All: 2264.784+/-337.564 χ^2/NDF : 63.0/53

eigen_cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606 $\pm$ 0.472 χ^2 /NDF: 670651.6/15

Left Out: 1949.832 $\pm$ 0.496 χ^2 /NDF: 233204.1/9

Right Out: 1747.786 $\pm$ 0.462 χ^2 /NDF: 297917.6/18

Left In: 1897.618 $\pm$ 0.479 χ^2 /NDF: 13750.4/8

Left: 1922.857 $\pm$ 0.345 χ^2 /NDF: 252688.5/18

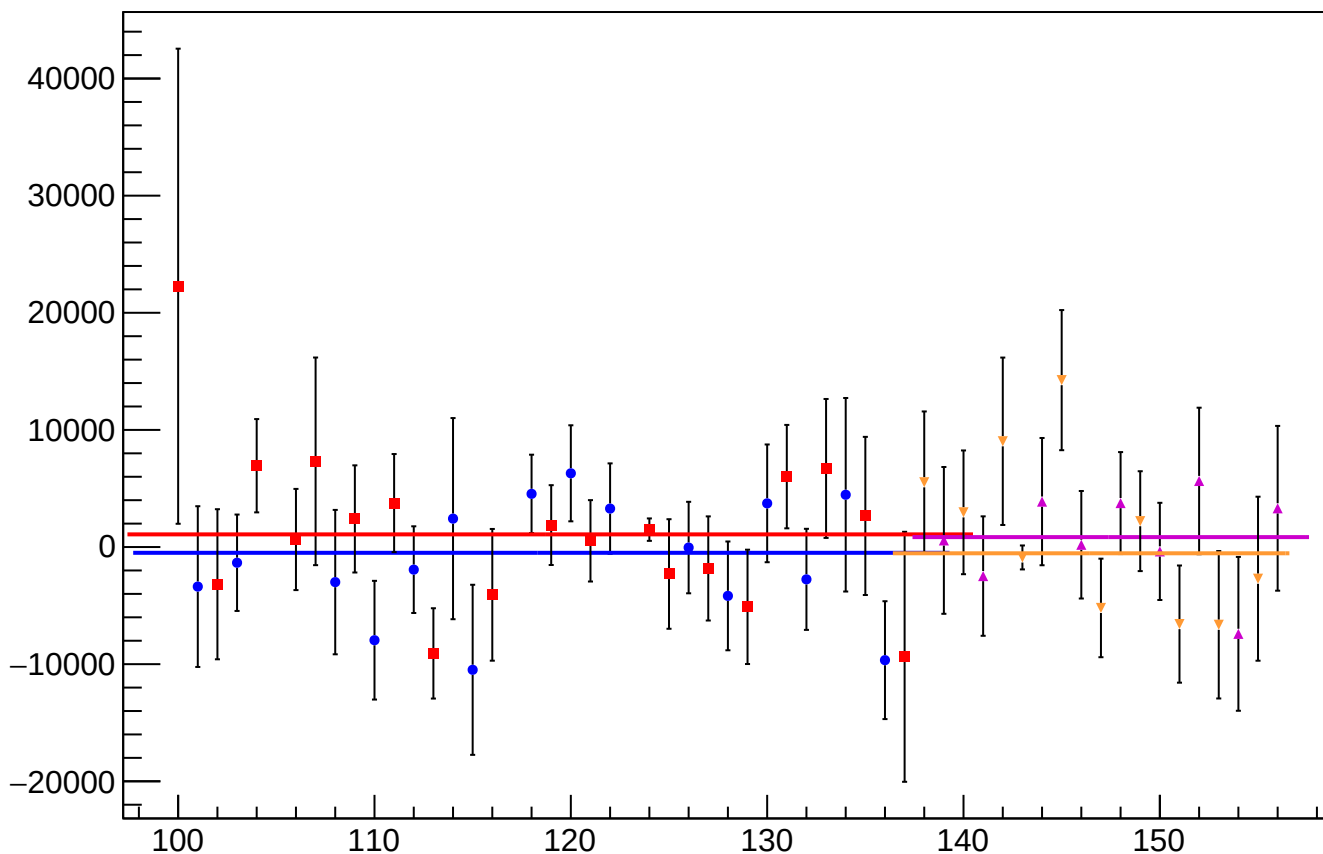
Right: 1749.656 $\pm$ 0.330 χ^2 /NDF: 968602.6/34

In: 1823.499 $\pm$ 0.336 χ^2 /NDF: 731492.0/24

Out: 1841.796 $\pm$ 0.338 χ^2 /NDF: 619985.6/28

All: 1832.602 $\pm$ 0.238 χ^2 /NDF: 1352949.4/53

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: -533.983+/-889.256 χ^2/NDF : 13.6/9

Right Out: 1080.924+/-731.458 χ^2/NDF : 18.5/18

Left In: 847.724+/-1753.828 χ^2/NDF : 3.6/8

Left: -251.410+/-793.130 χ^2/NDF : 17.7/18

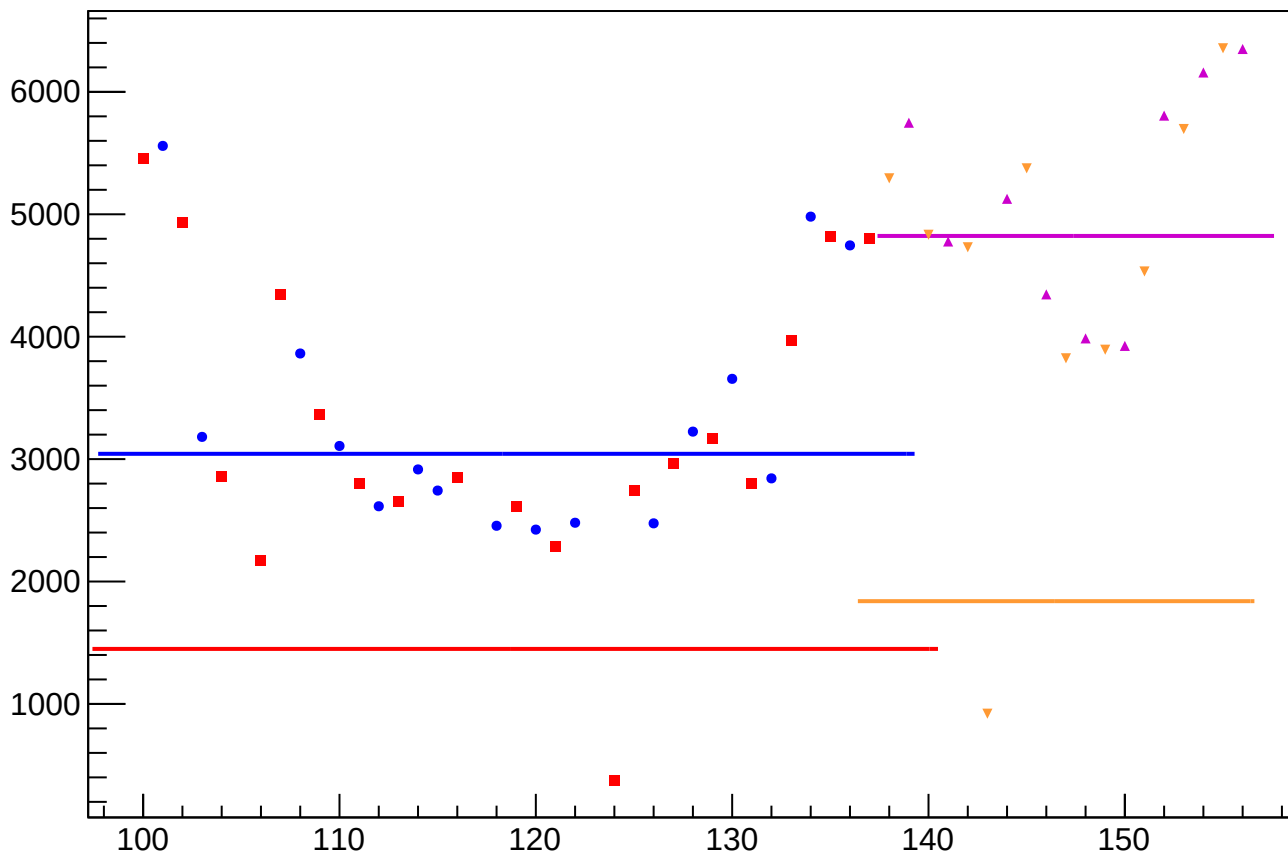
Right: 640.409+/-620.707 χ^2/NDF : 35.7/34

In: -78.448+/-975.161 χ^2/NDF : 20.0/24

Out: 429.227+/-564.906 χ^2/NDF : 34.0/28

All: 301.667+/-488.811 χ^2/NDF : 54.2/53

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: 1839.531+/-0.629 χ^2/NDF : 7010351.8/9

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 4823.149+/-1.240 χ^2/NDF : 465633.1/8

Left: 2449.710+/-0.561 χ^2/NDF : 12080429.2/18

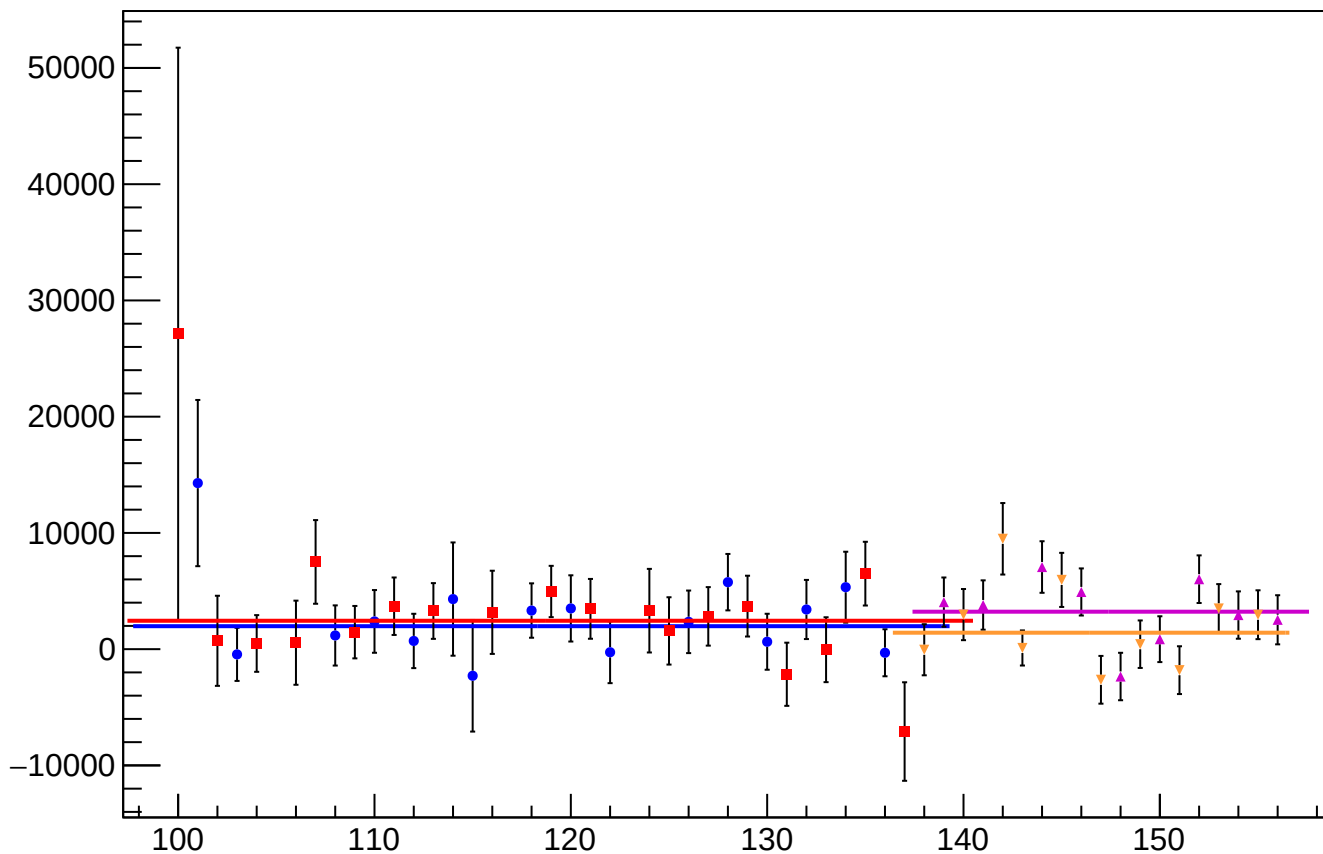
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3593.532+/-0.690 χ^2/NDF : 2794331.1/24

Out: 1606.907+/-0.399 χ^2/NDF : 14065531.2/28

All: 2106.072+/-0.346 χ^2/NDF : 23074820.8/5

dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.804 $\pm$ 674.086 χ^2 /NDF: 12.4/15

Left Out: 1415.695 $\pm$ 658.035 χ^2 /NDF: 20.5/9

Right Out: 2444.199 $\pm$ 657.682 χ^2 /NDF: 17.5/18

Left In: 3222.786 $\pm$ 691.188 χ^2 /NDF: 14.8/8

Left: 2274.864 $\pm$ 476.591 χ^2 /NDF: 38.9/18

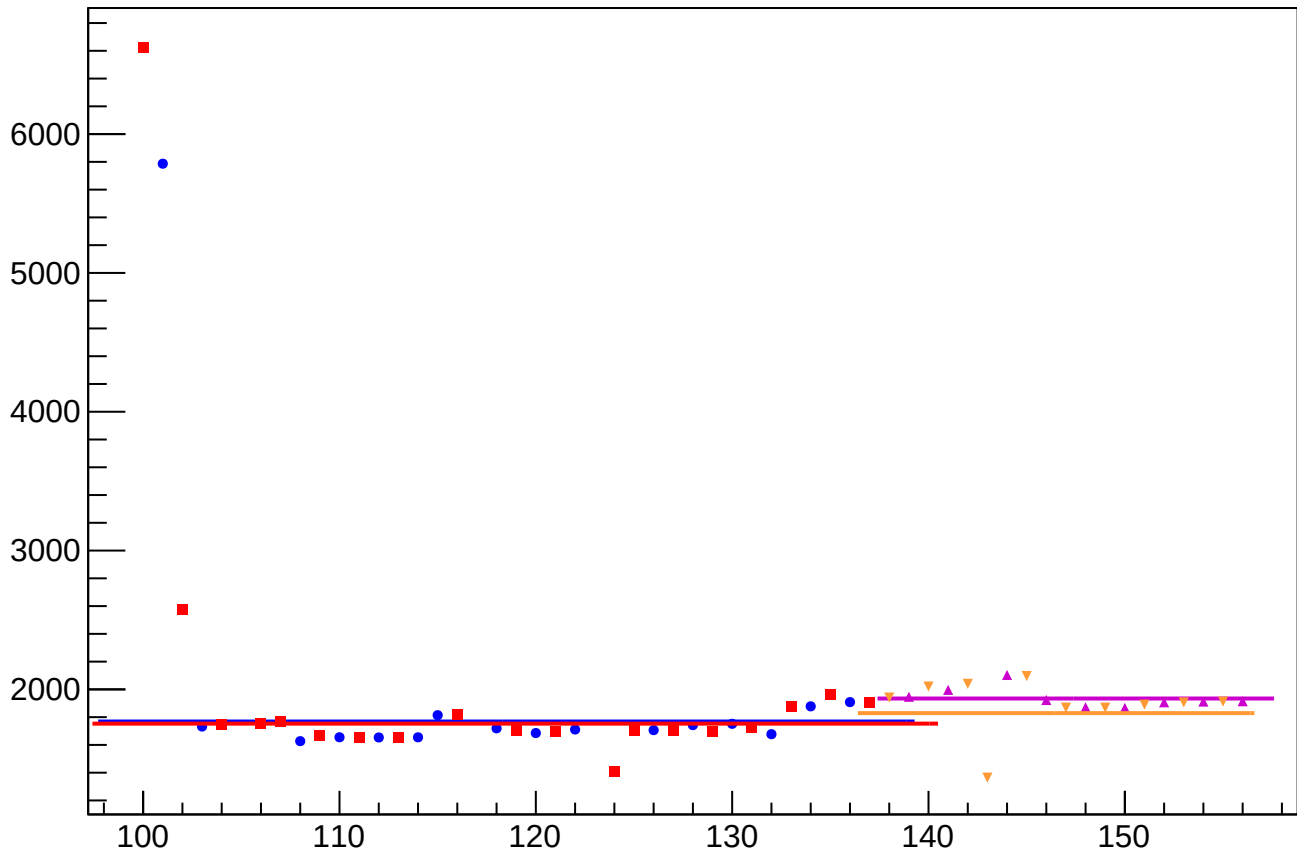
Right: 2215.770 $\pm$ 470.744 χ^2 /NDF: 30.1/34

In: 2583.678 $\pm$ 482.584 χ^2 /NDF: 28.9/24

Out: 1930.223 $\pm$ 465.176 χ^2 /NDF: 39.2/28

All: 2244.952 $\pm$ 334.914 χ^2 /NDF: 69.1/53

dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1829.049+/-0.465 χ^2/NDF : 254696.3/9

Right Out: 1753.383+/-0.464 χ^2/NDF : 218864.4/18

Left In: 1934.245+/-0.489 χ^2/NDF : 18560.4/8

Left: 1879.064+/-0.337 χ^2/NDF : 297557.8/18

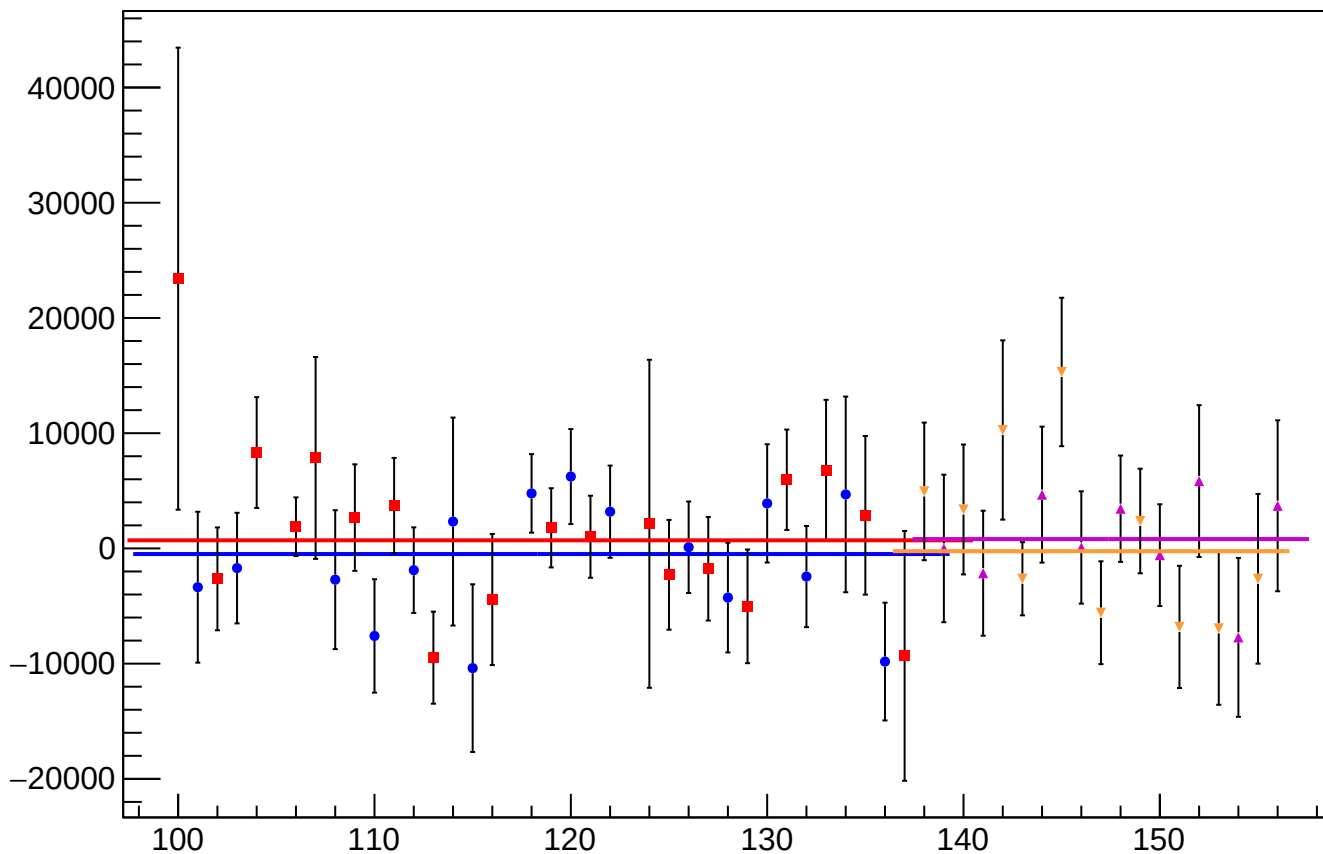
Right: 1760.725+/-0.332 χ^2/NDF : 886747.1/34

In: 1849.286+/-0.341 χ^2/NDF : 744884.9/24

Out: 1791.095+/-0.328 χ^2/NDF : 486825.2/28

All: 1819.083+/-0.237 χ^2/NDF : 1246803.6/53

asym_atr1l2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.104+/-1198.506 χ^2/NDF : 15.8/15

Left Out: -240.201+/-1633.372 χ^2/NDF :13.8/9

Right Out: 703.324+/-1069.467 χ^2/NDF : 18.8/18

Left In: 813.114+/-1857.789 χ^2/NDF :3.5/8

Left: 219.027+/-1226.680 χ^2/NDF : 17.5/18

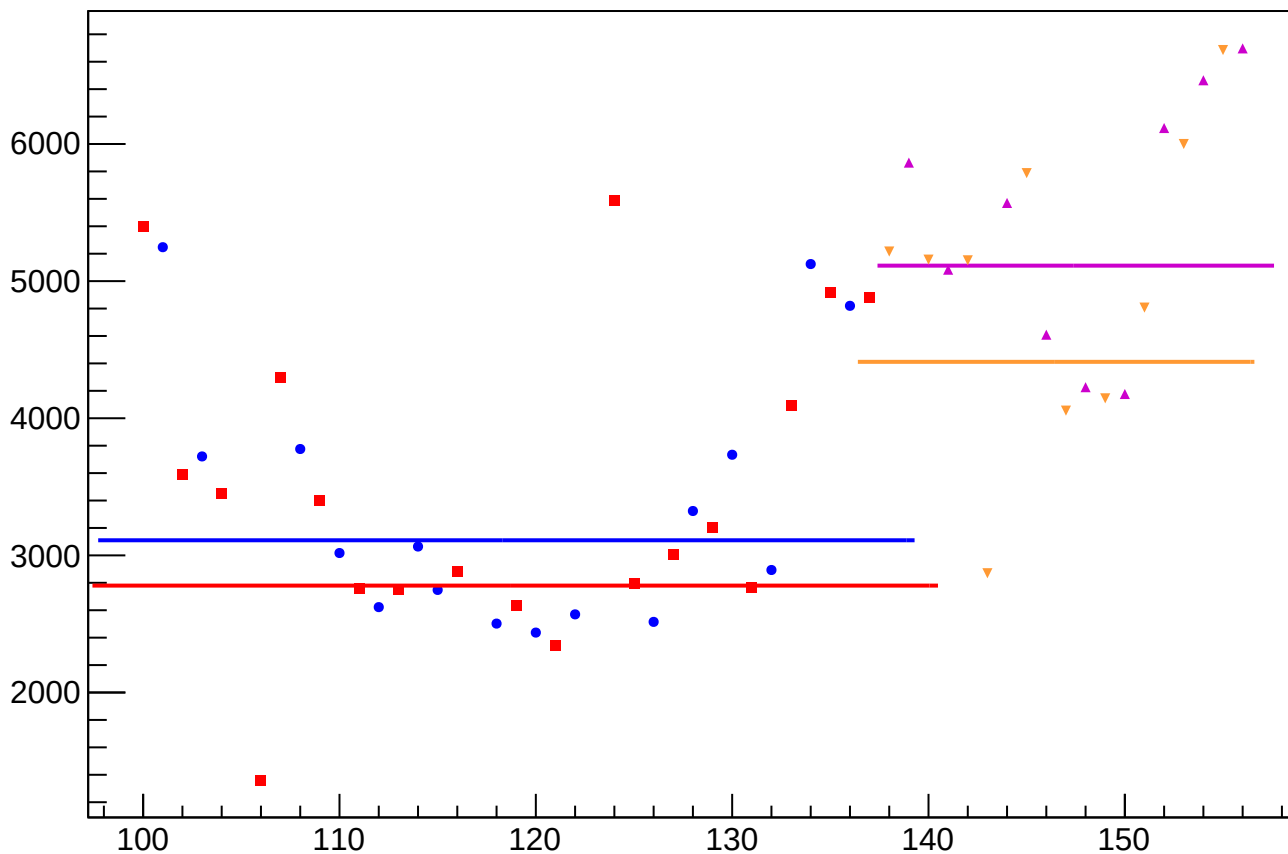
Right: 175.178+/-797.963 χ^2/NDF : 35.1/34

In: -105.705+/-1007.117 χ^2/NDF :19.6/24

Out: 420.202+/-894.737 χ^2/NDF :32.9/28

All: 188.216+/-668.892 χ^2/NDF : 52.6/53

asym_atr1l2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3110.133+/-0.847 χ^2/NDF : 883262.4/15

Left Out: 4411.443+/-1.155 χ^2/NDF : 988170.6/9

Right Out: 2779.630+/-0.756 χ^2/NDF : 1348141.7/18

Left In: 5112.910+/-1.314 χ^2/NDF : 439207.7/8

Left: 4717.271+/-0.867 χ^2/NDF : 1588200.0/18

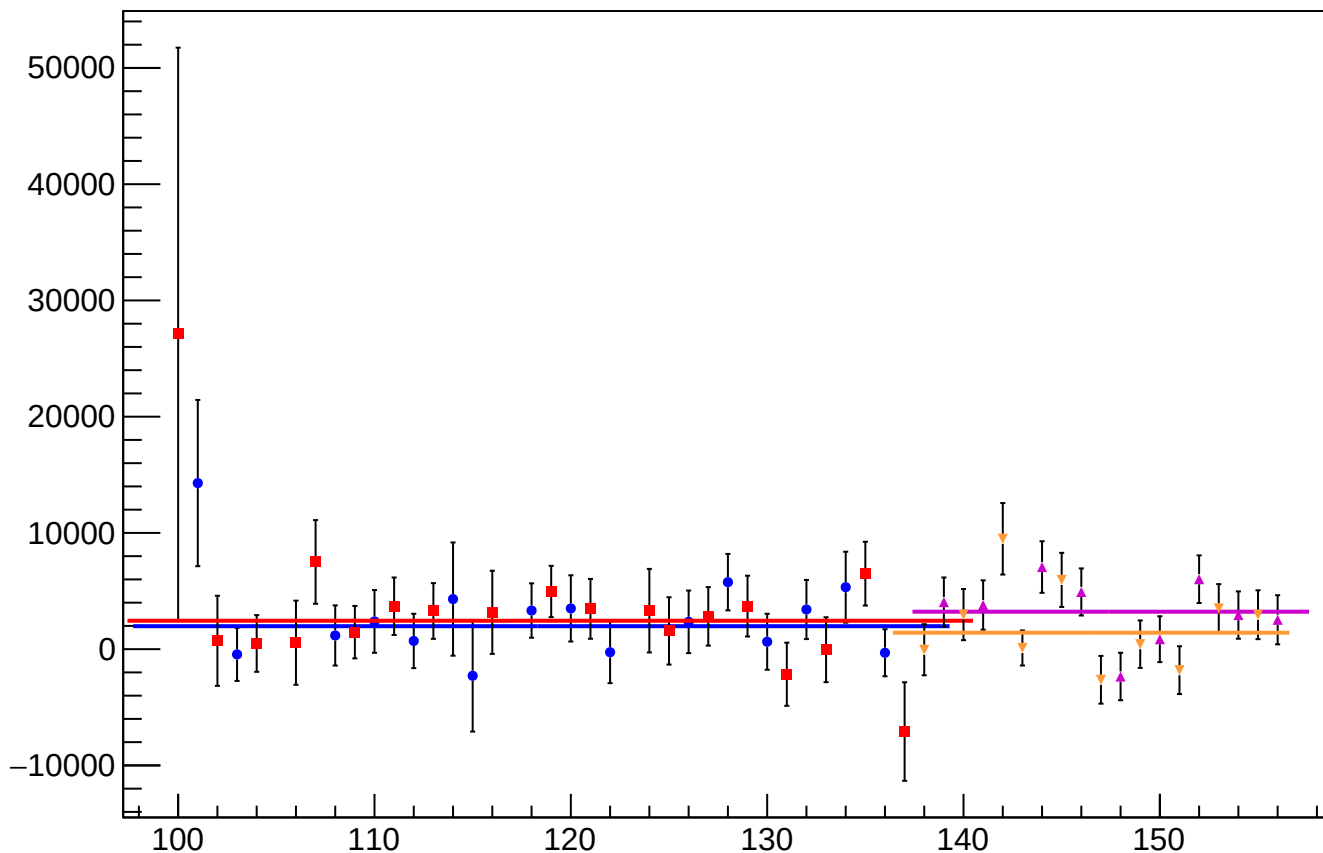
Right: 2926.138+/-0.564 χ^2/NDF : 2316074.2/34

In: 3698.705+/-0.712 χ^2/NDF : 2963749.6/24

Out: 3269.285+/-0.633 χ^2/NDF : 3733503.7/28

All: 3458.709+/-0.473 χ^2/NDF : 6900468.2/53

eigen_dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.805+/-674.086 χ^2/NDF : 12.4/15

Left Out: 1415.697+/-658.036 χ^2/NDF : 20.5/9

Right Out: 2444.199+/-657.682 χ^2/NDF : 17.5/18

Left In: 3222.786+/-691.189 χ^2/NDF : 14.8/8

Left: 2274.864+/-476.591 χ^2/NDF : 38.9/18

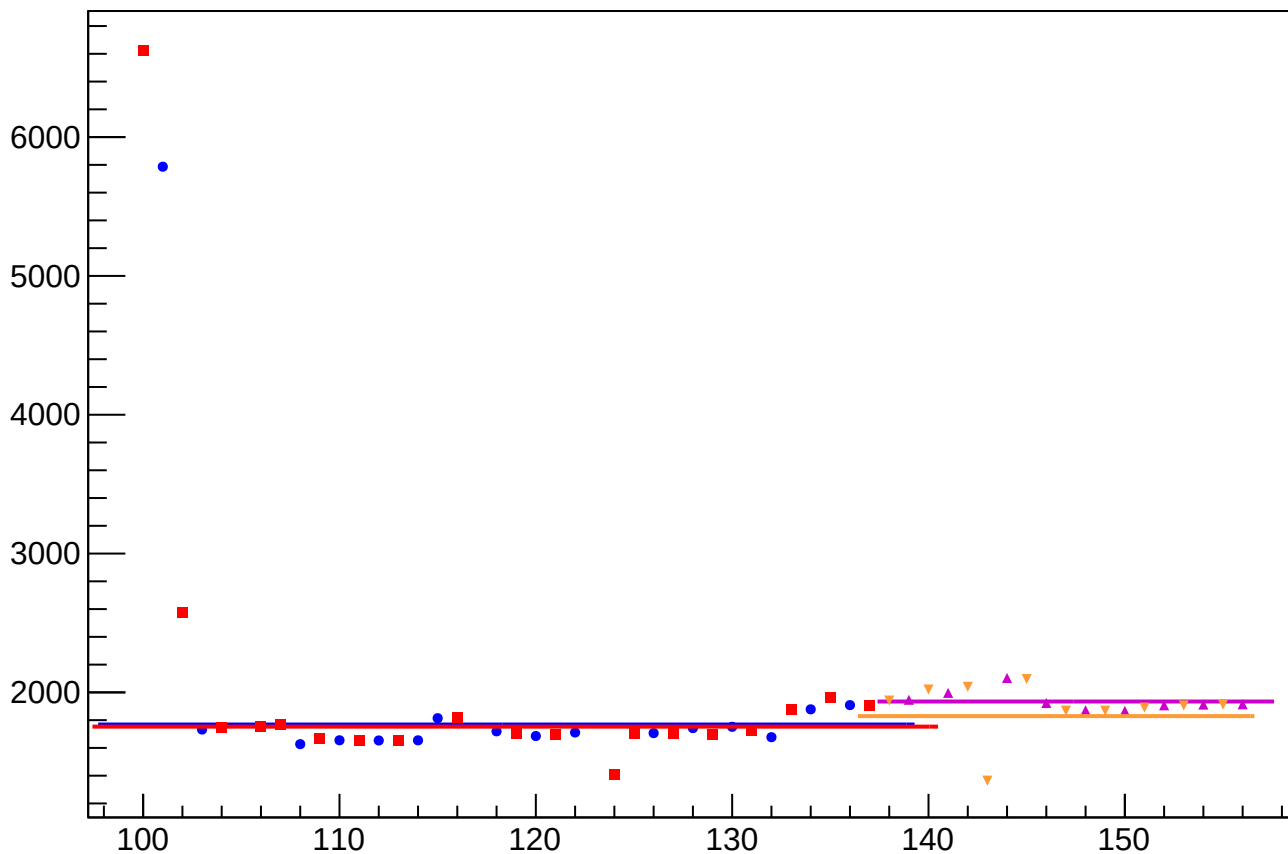
Right: 2215.771+/-470.744 χ^2/NDF : 30.1/34

In: 2583.677+/-482.584 χ^2/NDF : 28.9/24

Out: 1930.224+/-465.177 χ^2/NDF : 39.2/28

All: 2244.953+/-334.914 χ^2/NDF : 69.1/53

eigen_dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1829.050+/-0.465 χ^2/NDF : 254697.4/9

Right Out: 1753.382+/-0.464 χ^2/NDF : 218864.3/18

Left In: 1934.246+/-0.489 χ^2/NDF : 18560.7/8

Left: 1879.064+/-0.337 χ^2/NDF : 297559.3/18

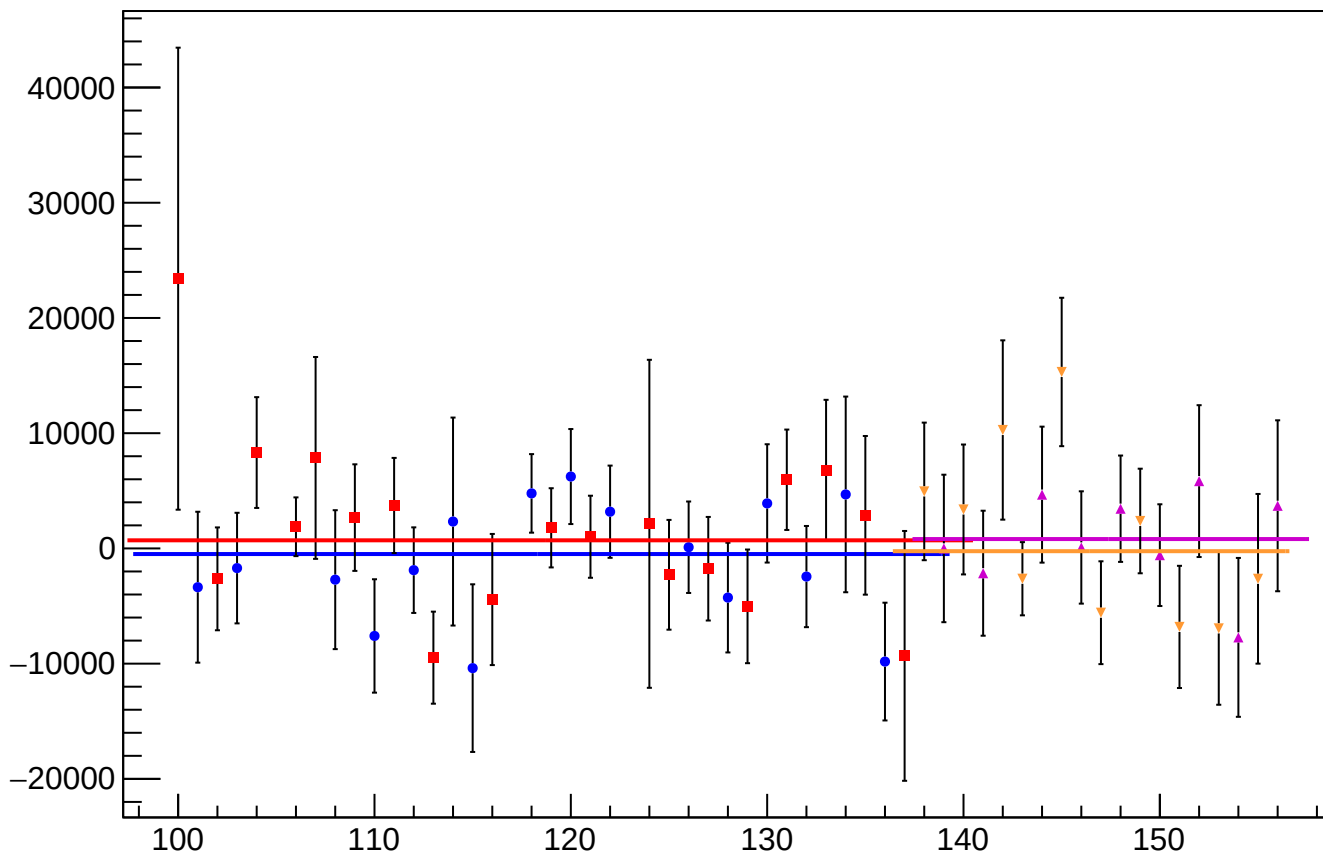
Right: 1760.725+/-0.332 χ^2/NDF : 886747.0/34

In: 1849.287+/-0.341 χ^2/NDF : 744885.9/24

Out: 1791.095+/-0.328 χ^2/NDF : 486826.6/28

All: 1819.084+/-0.237 χ^2/NDF : 1246806.1/53

asym_atr1l2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.098+/-1198.502 χ^2/NDF : 15.8/15

Left Out: -240.206+/-1633.374 χ^2/NDF :13.8/9

Right Out: 703.325+/-1069.463 χ^2/NDF : 18.8/18

Left In: 813.115+/-1857.791 χ^2/NDF :3.5/8

Left: 219.024+/-1226.681 χ^2/NDF : 17.5/18

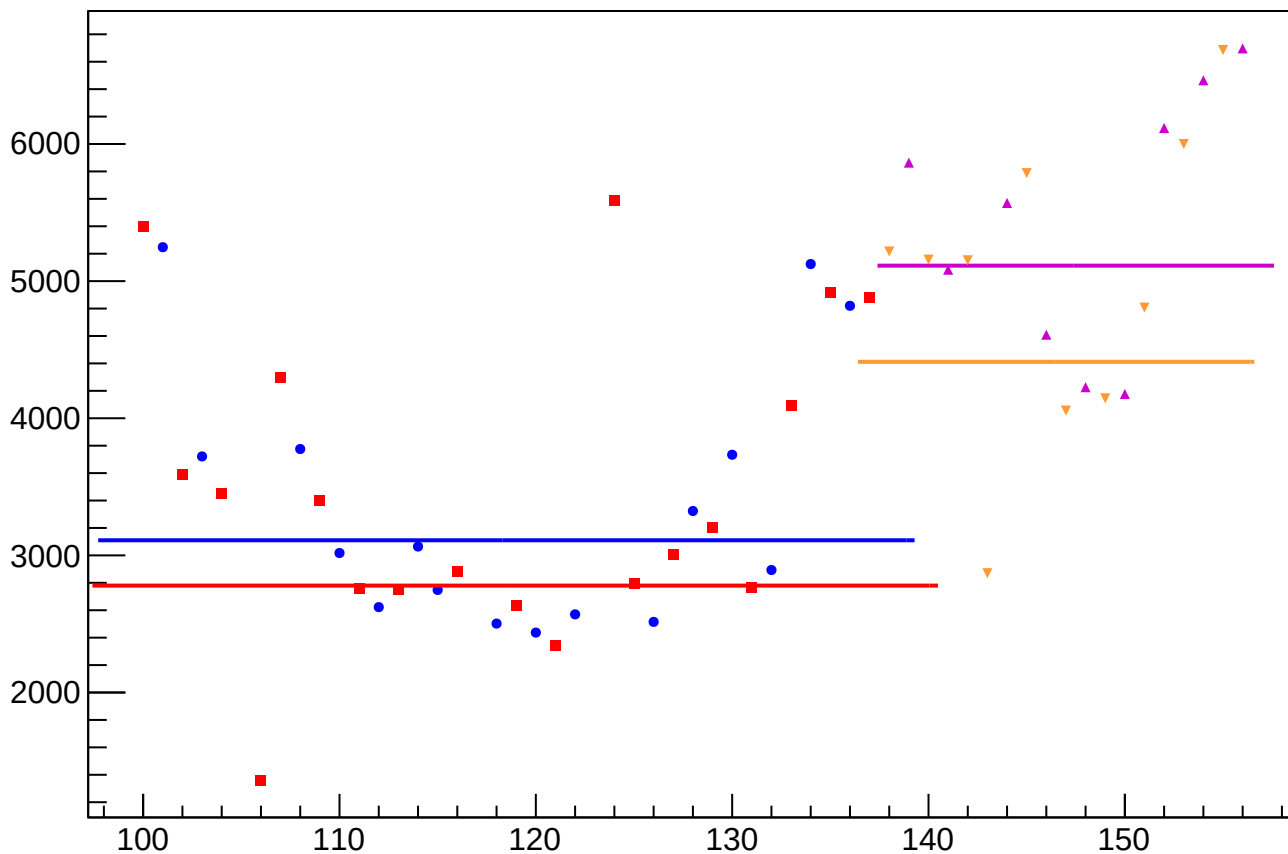
Right: 175.182+/-797.960 χ^2/NDF : 35.1/34

In: -105.702+/-1007.115 χ^2/NDF :19.6/24

Out: 420.203+/-894.735 χ^2/NDF :32.9/28

All: 188.218+/-668.891 χ^2/NDF : 52.6/53

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: 4411.446+/-1.155 χ^2/NDF : 988176.4/9

Right Out: 2779.617+/-0.756 χ^2/NDF : 1348160.7/18

Left In: 5112.916+/-1.314 χ^2/NDF : 439211.1/8

Left: 4717.275+/-0.867 χ^2/NDF : 1588209.9/18

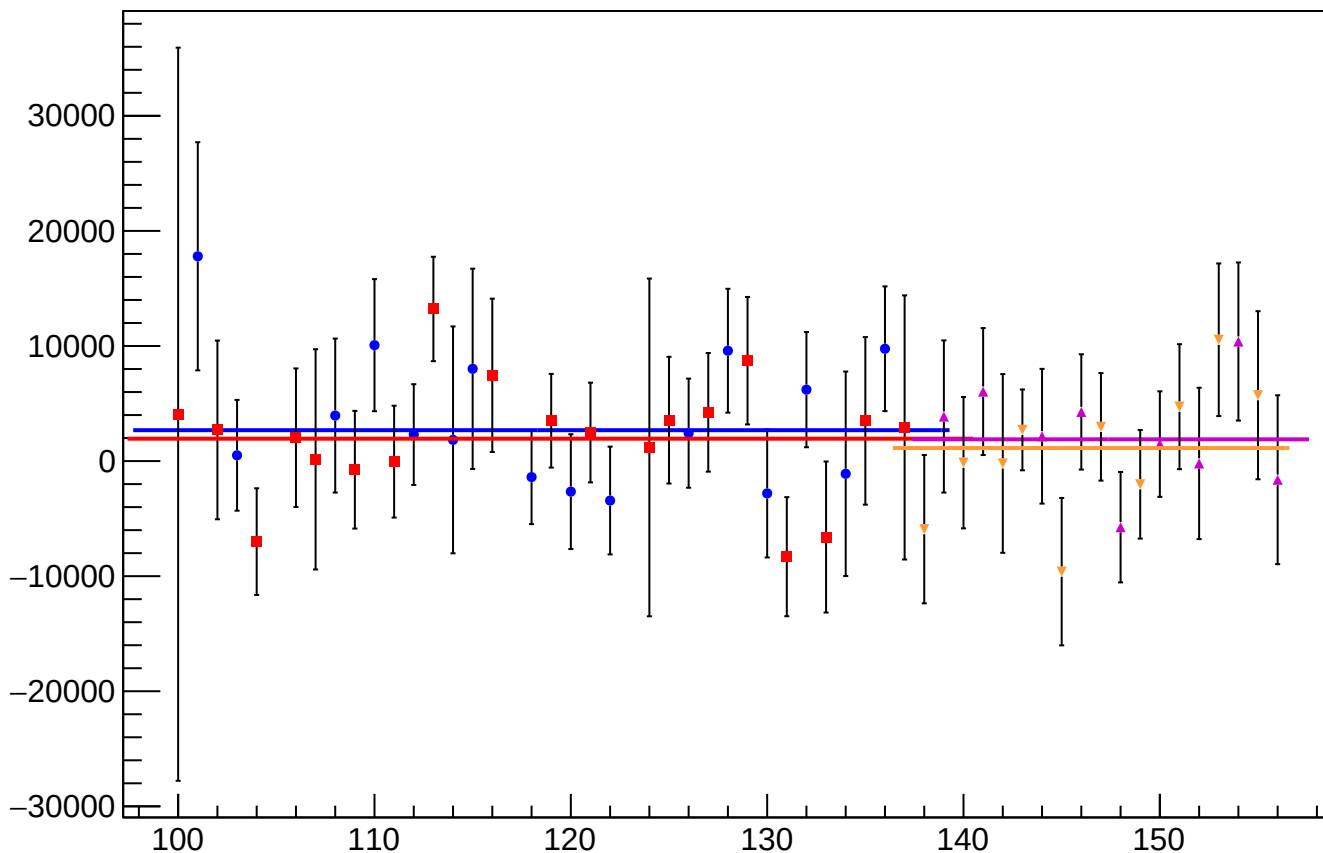
Right: 2926.126+/-0.564 χ^2/NDF : 2316104.6/34

In: 3698.695+/-0.712 χ^2/NDF : 2963790.2/24

Out: 3269.274+/-0.633 χ^2/NDF : 3733557.5/28

All: 3458.698+/-0.473 χ^2/NDF : 6900564.9/53

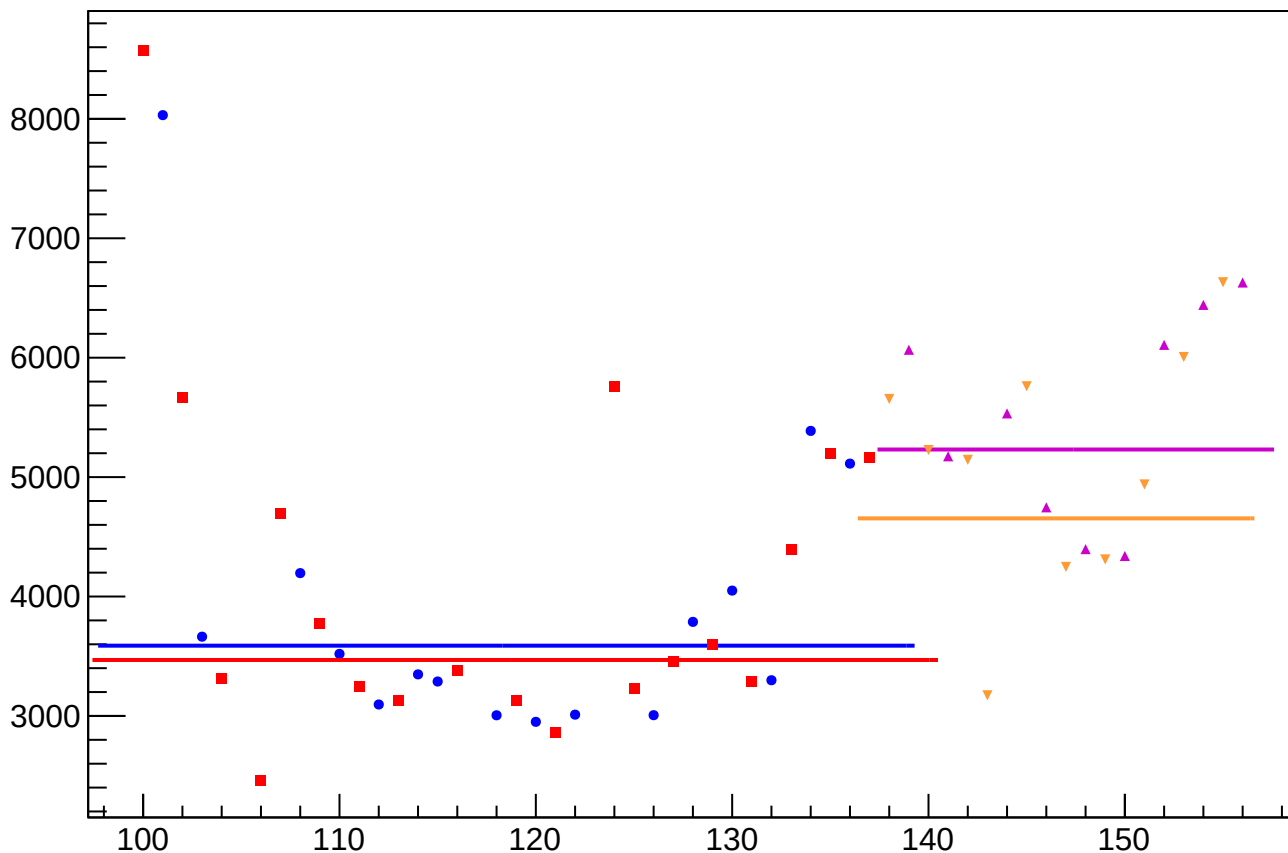
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2685.414 $\pm$ 1379.907 χ^2 /NDF: 13.5/15
 Left Out: 1132.607 $\pm$ 1707.658 χ^2 /NDF: 7.7/9
 Right Out: 1945.685 $\pm$ 1332.986 χ^2 /NDF: 18.7/18
 Left In: 1890.102 $\pm$ 1894.443 χ^2 /NDF: 5.3/8

Left: 1472.180 $\pm$ 1268.406 χ^2 /NDF: 13.1/18
 Right: 2302.760 $\pm$ 958.722 χ^2 /NDF: 32.3/34
 In: 2409.723 $\pm$ 1115.384 χ^2 /NDF: 18.9/24
 Out: 1637.836 $\pm$ 1050.760 χ^2 /NDF: 26.6/28
 All: 2000.772 $\pm$ 764.826 χ^2 /NDF: 45.7/53

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3588.430+/-0.976 χ^2/NDF : 845218.6/15

Left Out: 4654.458+/-1.207 χ^2/NDF : 752931.0/9

Right Out: 3468.624+/-0.928 χ^2/NDF : 666541.5/18

Left In: 5231.151+/-1.340 χ^2/NDF : 362561.3/8

Left: 4912.981+/-0.897 χ^2/NDF : 1217744.0/18

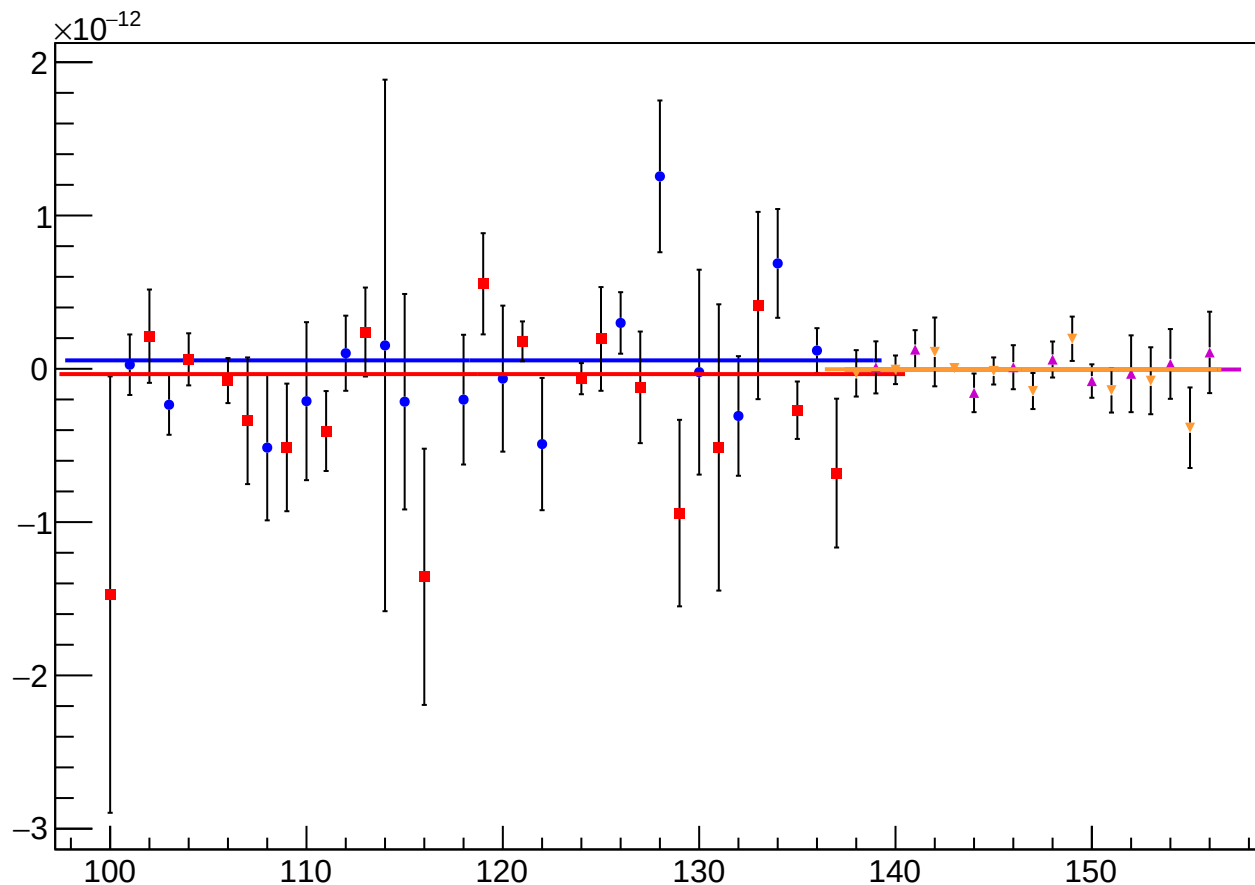
Right: 3525.541+/-0.673 χ^2/NDF : 1519674.0/34

In: 4157.870+/-0.789 χ^2/NDF : 2190305.5/24

Out: 3909.100+/-0.736 χ^2/NDF : 2025674.4/28

All: 4024.886+/-0.538 χ^2/NDF : 4269164.0/53

asym_atr1l2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 17.7/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 6.9/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 22.3/18$

Left In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 3.5/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 10.4/18$

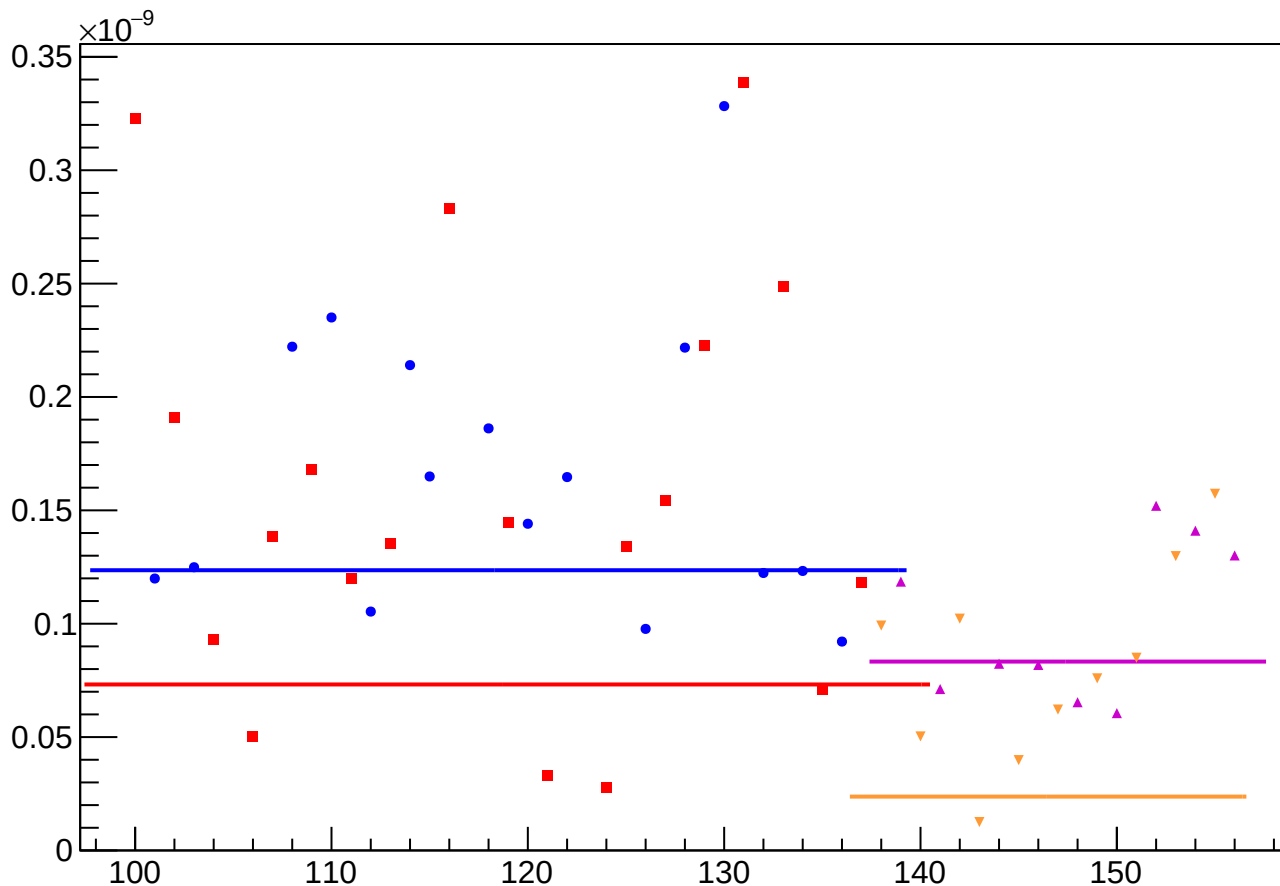
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 41.0/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 21.7/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 29.4/28$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 51.4/53$

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 :3286251.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2188857.9/18

Left In: 0.000+/-0.000 χ^2/NDF :579709.1/8

Left: 0.000+/-0.000 χ^2/NDF : 6387353.8/18

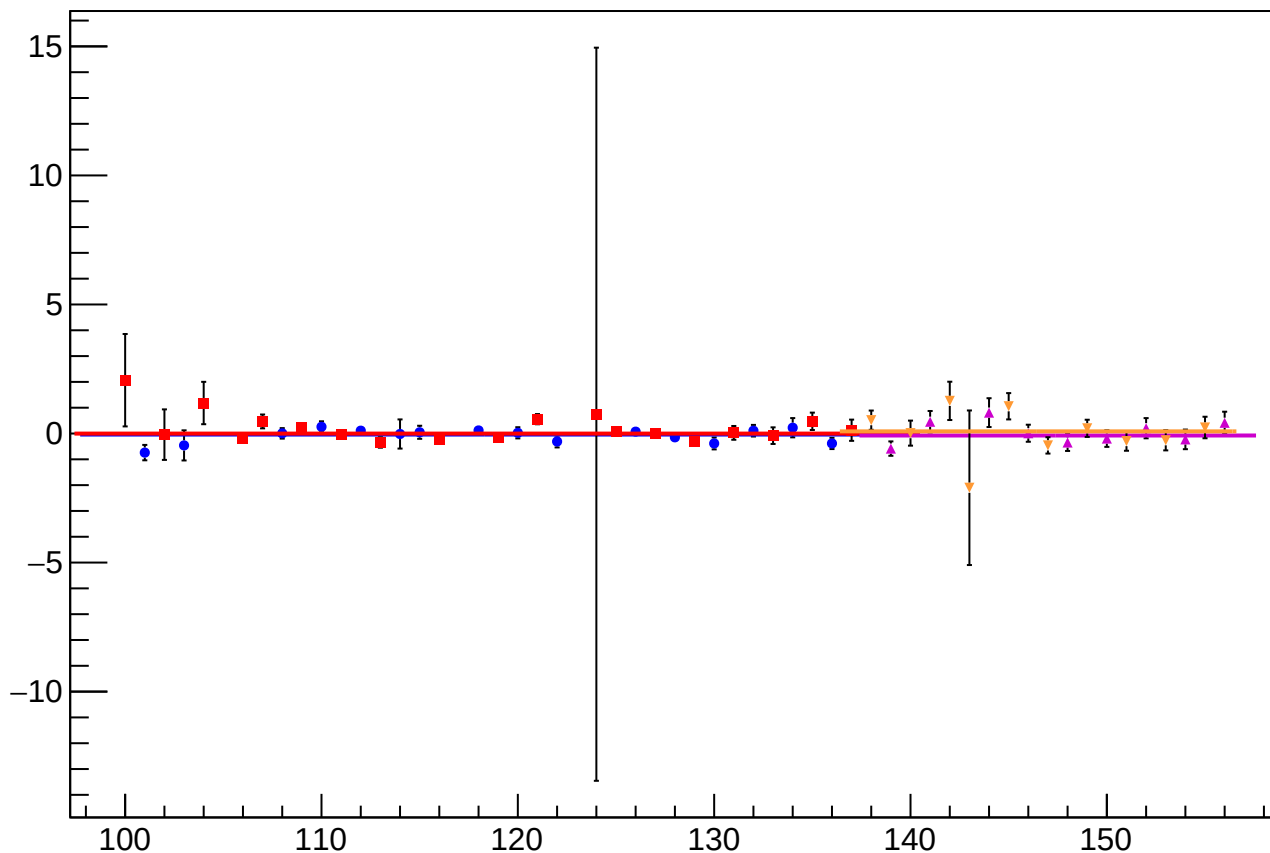
Right: 0.000+/-0.000 χ^2/NDF : 3471325.1/34

In: 0.000+/-0.000 χ^2/NDF :1660090.3/24

Out: 0.000+/-0.000 χ^2/NDF :6987323.3/28

All: 0.000+/-0.000 χ^2/NDF : 12965475.4/53

asym_atr1l2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 0.083 ± 0.134 $\chi^2/\text{NDF}: 13.1/9$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.077 ± 0.121 $\chi^2/\text{NDF}: 10.4/8$

Left: -0.005 ± 0.090 $\chi^2/\text{NDF}: 24.2/18$

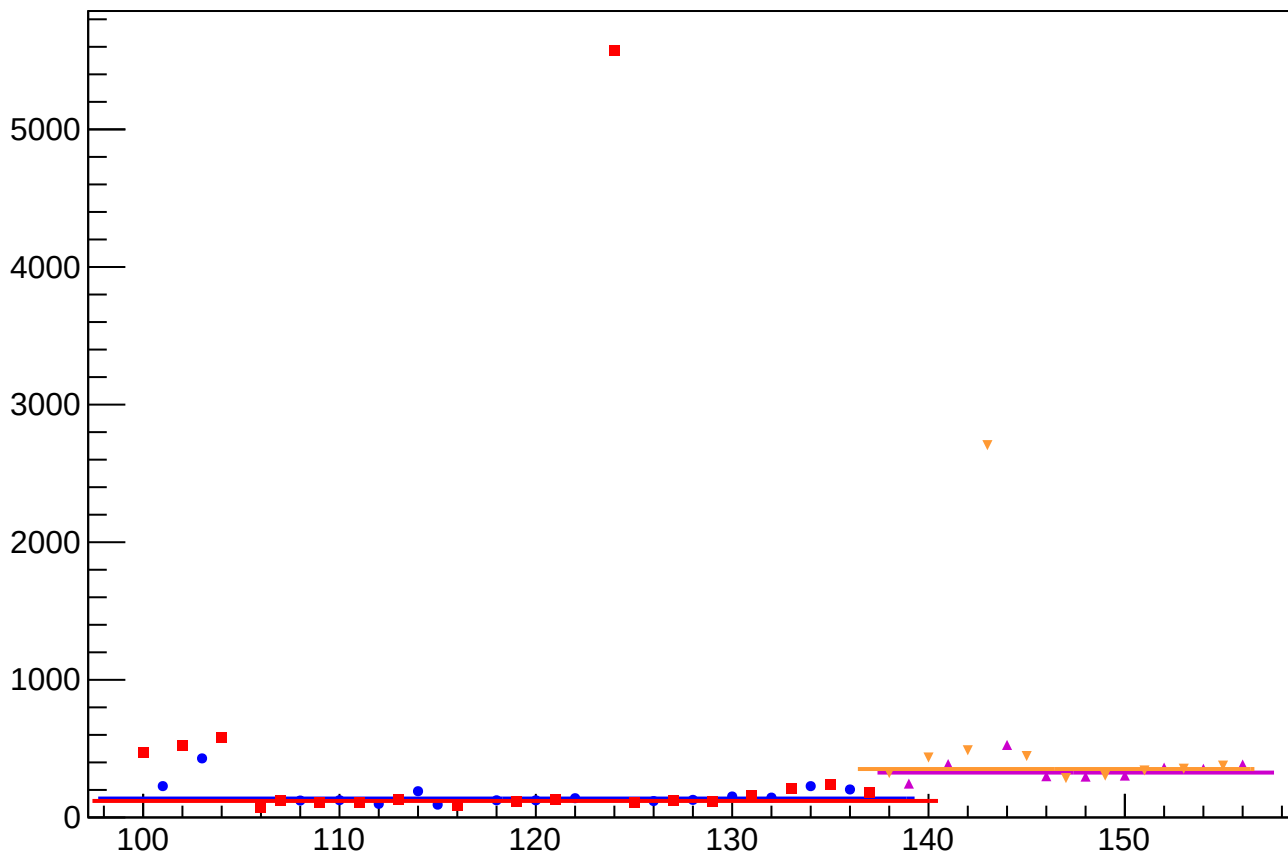
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.046 ± 0.051 $\chi^2/\text{NDF}: 28.4/24$

Out: 0.008 ± 0.048 $\chi^2/\text{NDF}: 42.2/28$

All: -0.017 ± 0.035 $\chi^2/\text{NDF}: 71.1/53$

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: 351.940 $\pm$ 0.095 χ^2 /NDF: 1580936.8/9

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139894.0/18

Left In: 326.093 $\pm$ 0.085 χ^2 /NDF: 571167.0/8

Left: 337.640 $\pm$ 0.063 χ^2 /NDF: 2193211.0/18

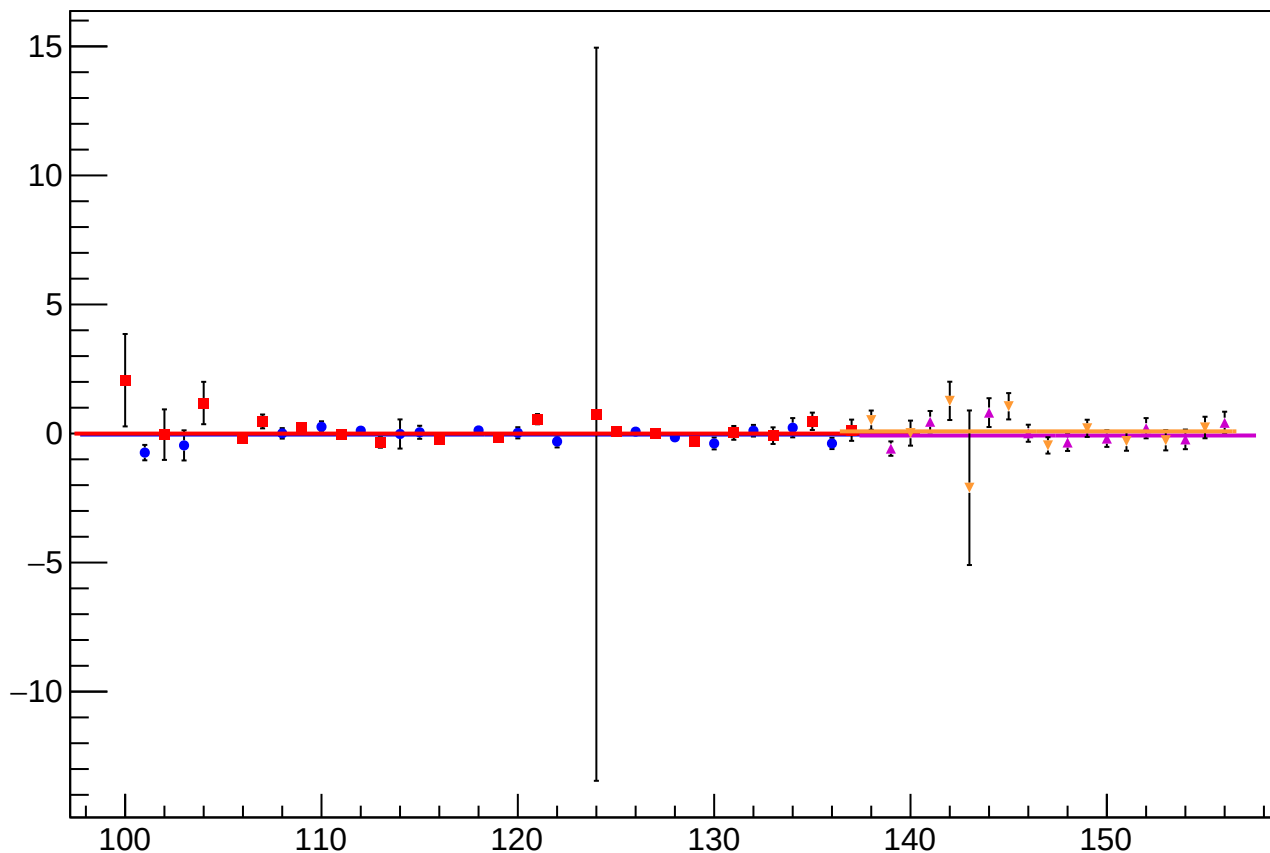
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514127.8/34

In: 170.737 $\pm$ 0.036 χ^2 /NDF: 5877049.3/24

Out: 149.238 $\pm$ 0.034 χ^2 /NDF: 8949276.7/28

All: 159.322 $\pm$ 0.025 χ^2 /NDF: 15017628.9/53

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: 0.083 ± 0.134 $\chi^2/\text{NDF}: 13.1/9$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.077 ± 0.121 $\chi^2/\text{NDF}: 10.4/8$

Left: -0.005 ± 0.090 $\chi^2/\text{NDF}: 24.2/18$

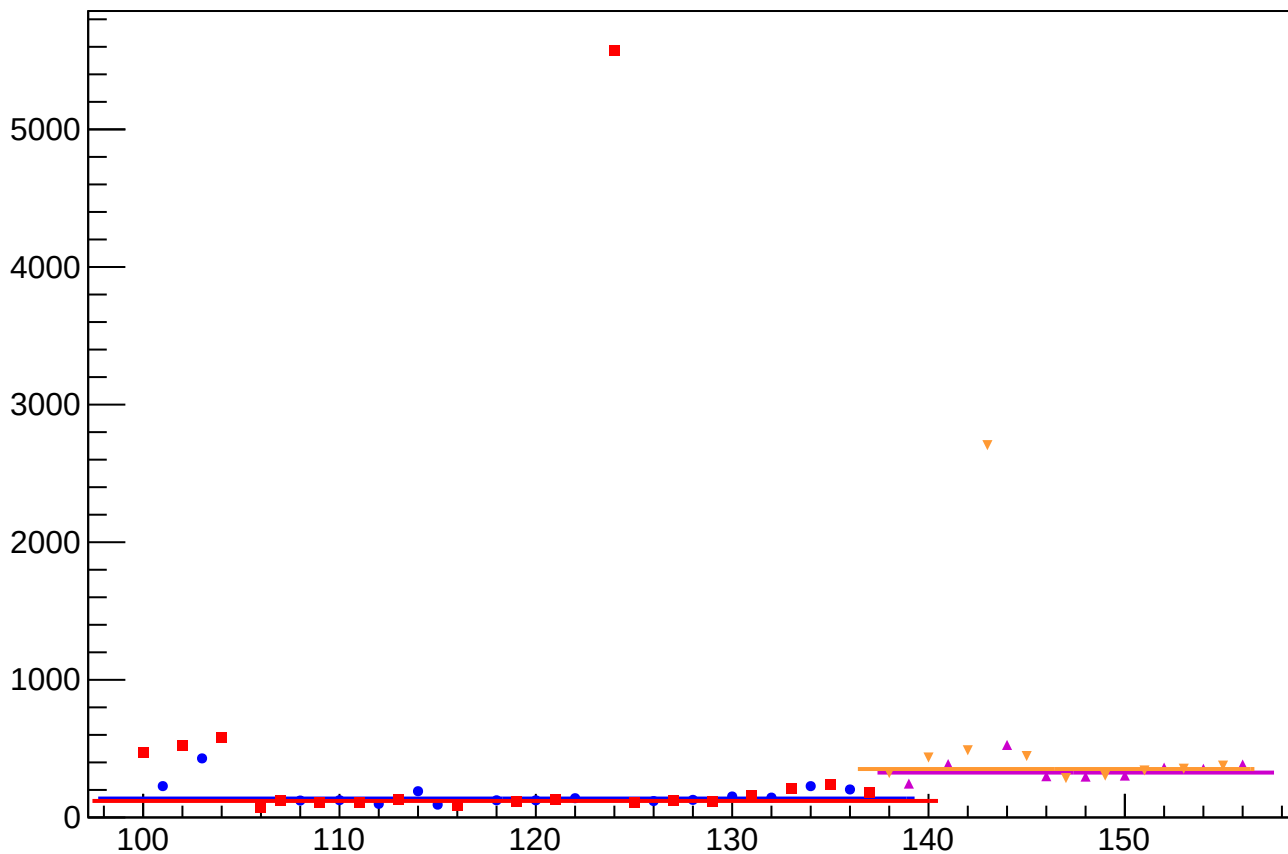
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.046 ± 0.051 $\chi^2/\text{NDF}: 28.4/24$

Out: 0.008 ± 0.048 $\chi^2/\text{NDF}: 42.2/28$

All: -0.017 ± 0.035 $\chi^2/\text{NDF}: 71.1/53$

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.399 $\pm$ 0.039 χ^2 /NDF: 1268257.0/15

Left Out: 351.940 $\pm$ 0.095 χ^2 /NDF: 1580936.8/9

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139894.0/18

Left In: 326.093 $\pm$ 0.085 χ^2 /NDF: 571167.0/8

Left: 337.640 $\pm$ 0.063 χ^2 /NDF: 2193211.0/18

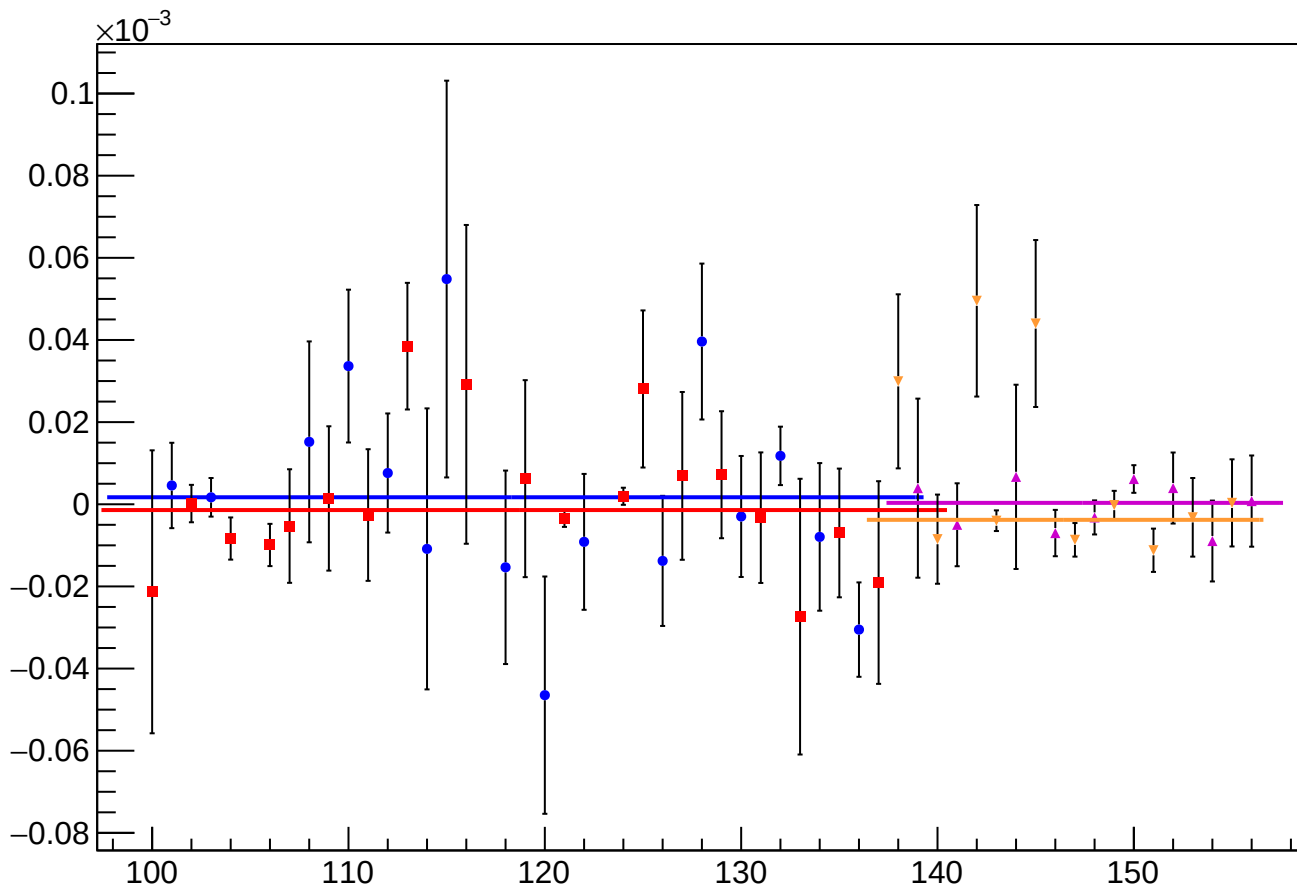
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514127.8/34

In: 170.737 $\pm$ 0.036 χ^2 /NDF: 5877049.3/24

Out: 149.238 $\pm$ 0.034 χ^2 /NDF: 8949276.7/28

All: 159.322 $\pm$ 0.025 χ^2 /NDF: 15017628.9/53

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 : 18.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 20.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 6.9/8

Left: -0.000+/-0.000 χ^2/NDF : 27.4/18

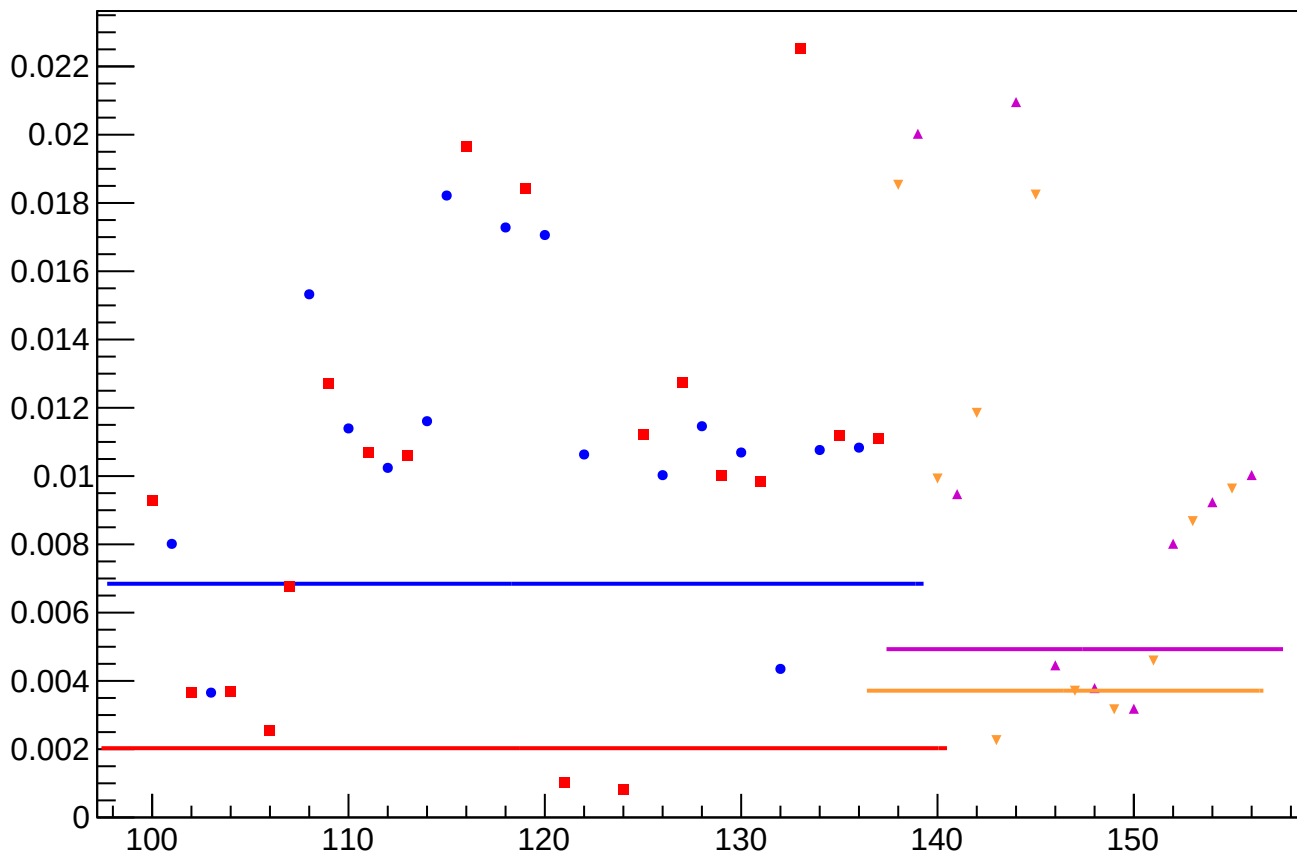
Right: -0.000+/-0.000 χ^2/NDF : 45.0/34

In: 0.000+/-0.000 χ^2/NDF : 30.8/24

Out: -0.000+/-0.000 χ^2/NDF : 39.7/28

All: -0.000+/-0.000 χ^2/NDF : 72.9/53

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: 0.004+/-0.000 χ^2/NDF : 4830241.9/9

Right Out: 0.002+/-0.000 χ^2/NDF : 9007527.0/18

Left In: 0.005+/-0.000 χ^2/NDF : 4147283.0/8

Left: 0.004+/-0.000 χ^2/NDF : 9390641.7/18

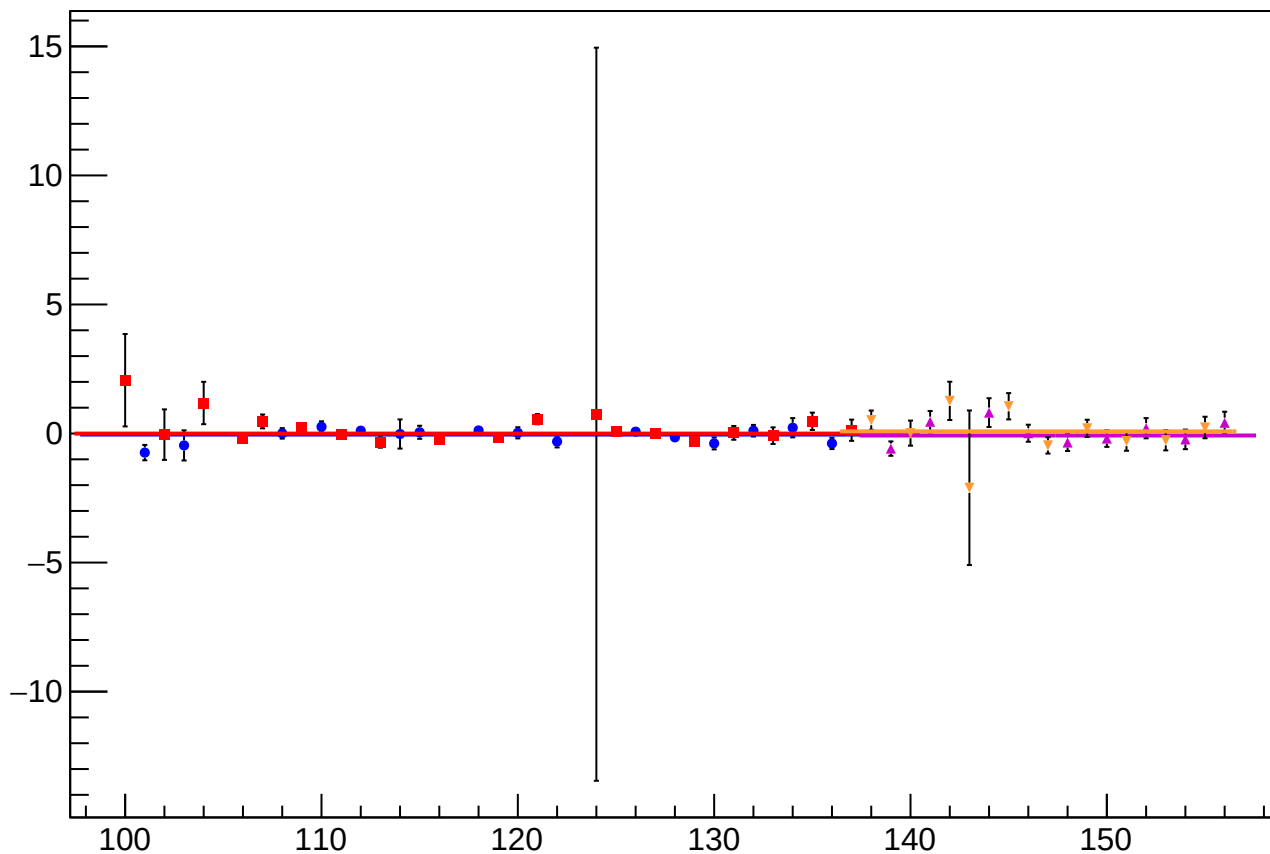
Right: 0.003+/-0.000 χ^2/NDF : 16707172.2/34

In: 0.006+/-0.000 χ^2/NDF : 7930043.7/24

Out: 0.003+/-0.000 χ^2/NDF : 15168244.4/28

All: 0.003+/-0.000 χ^2/NDF : 27414298.0/53

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 0.083 ± 0.134 $\chi^2/\text{NDF}: 13.1/9$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.077 ± 0.121 $\chi^2/\text{NDF}: 10.4/8$

Left: -0.005 ± 0.090 $\chi^2/\text{NDF}: 24.2/18$

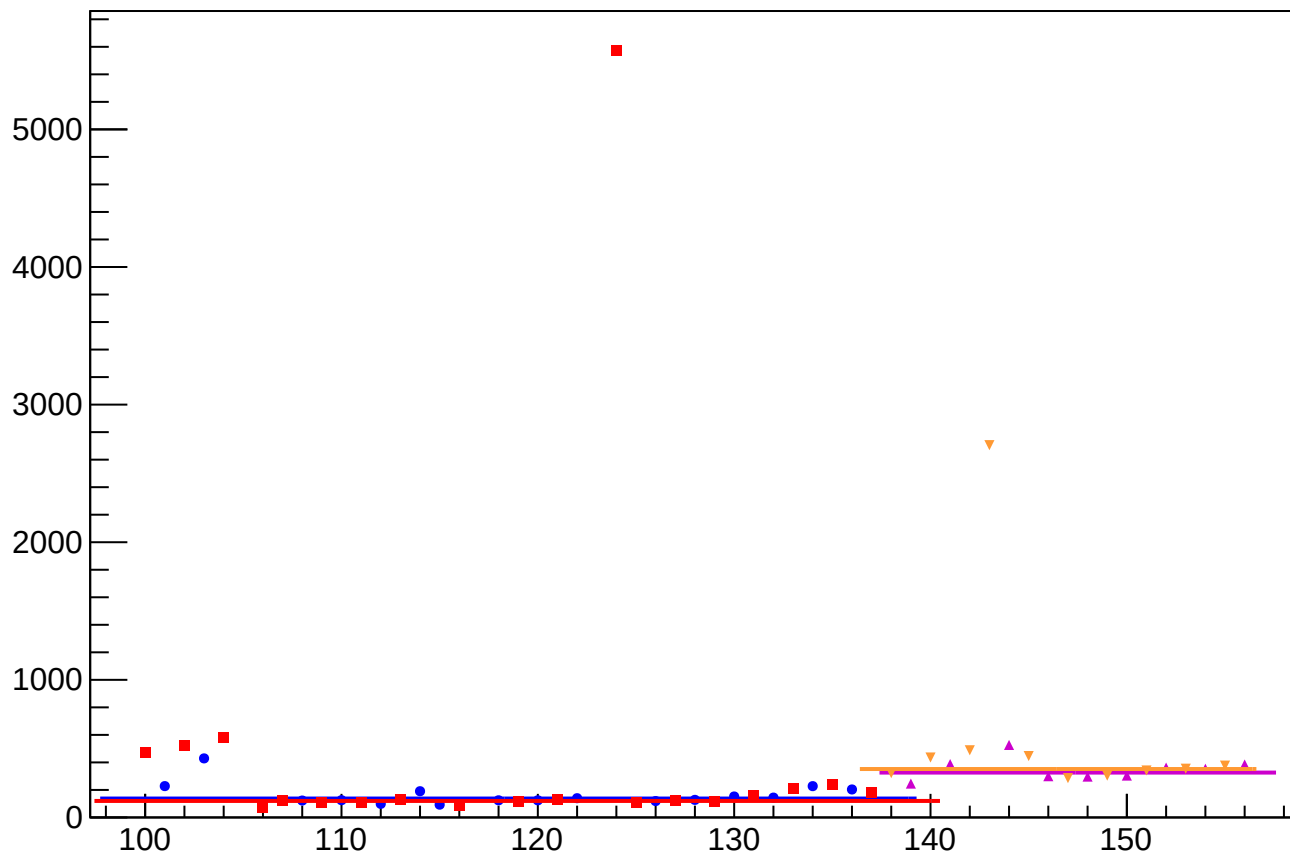
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.046 ± 0.051 $\chi^2/\text{NDF}: 28.4/24$

Out: 0.008 ± 0.048 $\chi^2/\text{NDF}: 42.2/28$

All: -0.017 ± 0.035 $\chi^2/\text{NDF}: 71.1/53$

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400 $\pm$ 0.039 χ^2 /NDF: 1268197.9/15

Left Out: 351.943 $\pm$ 0.095 χ^2 /NDF:1580967.4/9

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139820.8/18

Left In: 326.097 $\pm$ 0.085 χ^2 /NDF:571162.1/8

Left: 337.644 $\pm$ 0.063 χ^2 /NDF: 2193230.8/18

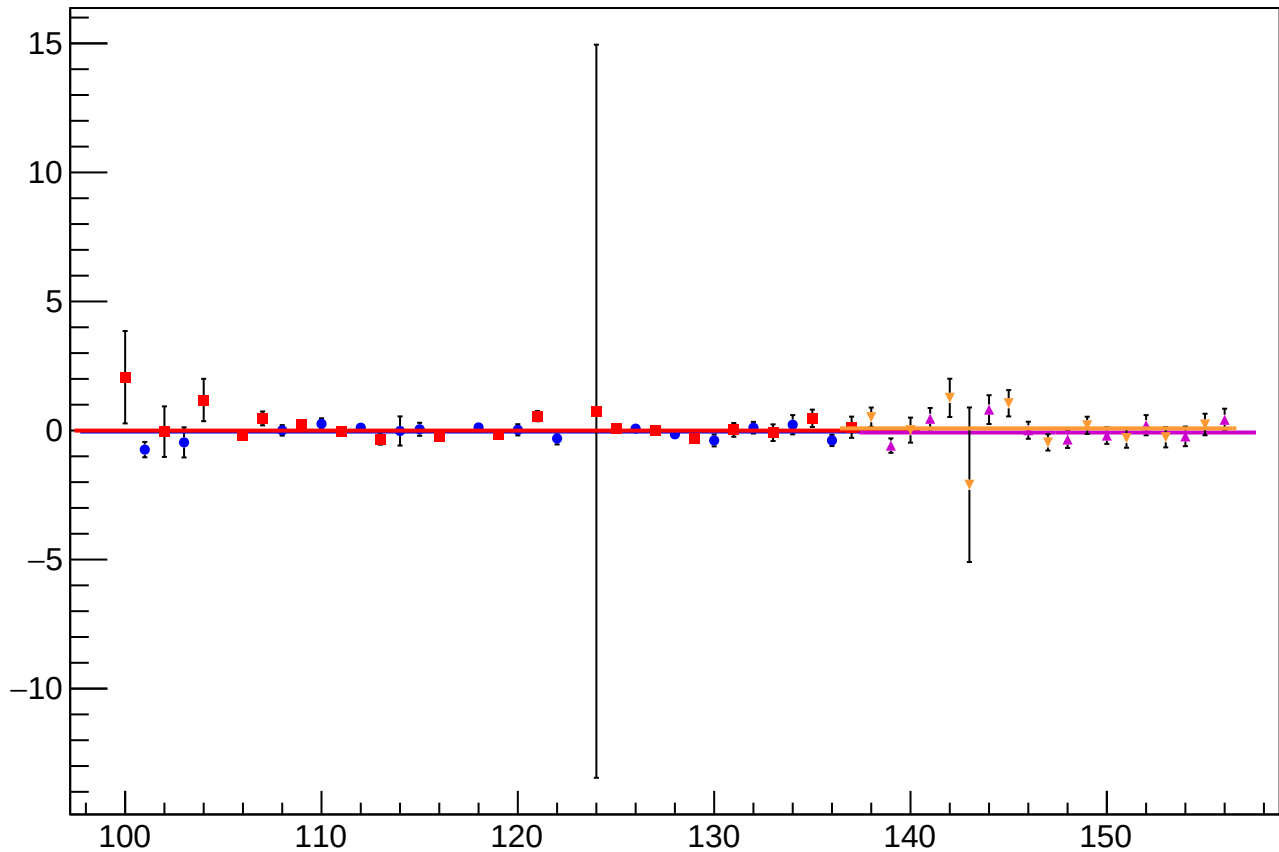
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514005.7/34

In: 170.738 $\pm$ 0.036 χ^2 /NDF:5877041.0/24

Out: 149.238 $\pm$ 0.034 χ^2 /NDF:8949285.0/28

All: 159.323 $\pm$ 0.025 χ^2 /NDF: 15017649.5/53

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: 0.083 ± 0.134 $\chi^2/\text{NDF}: 13.1/9$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.077 ± 0.121 $\chi^2/\text{NDF}: 10.4/8$

Left: -0.005 ± 0.090 $\chi^2/\text{NDF}: 24.2/18$

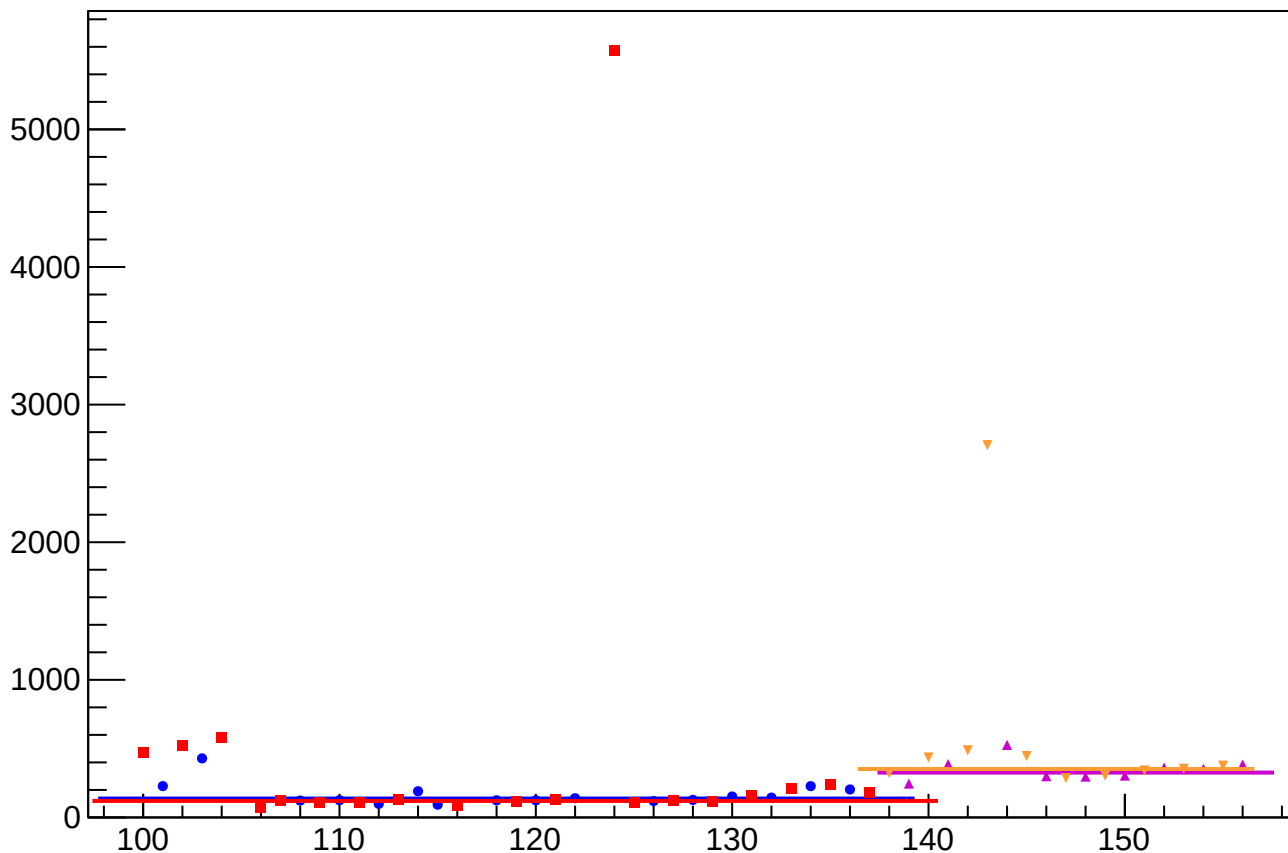
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.046 ± 0.051 $\chi^2/\text{NDF}: 28.4/24$

Out: 0.008 ± 0.048 $\chi^2/\text{NDF}: 42.2/28$

All: -0.017 ± 0.035 $\chi^2/\text{NDF}: 71.1/53$

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400 $\pm$ 0.039 χ^2 /NDF: 1268197.9/15

Left Out: 351.943 $\pm$ 0.095 χ^2 /NDF: 1580967.4/9

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139820.8/18

Left In: 326.097 $\pm$ 0.085 χ^2 /NDF: 571162.1/8

Left: 337.644 $\pm$ 0.063 χ^2 /NDF: 2193230.8/18

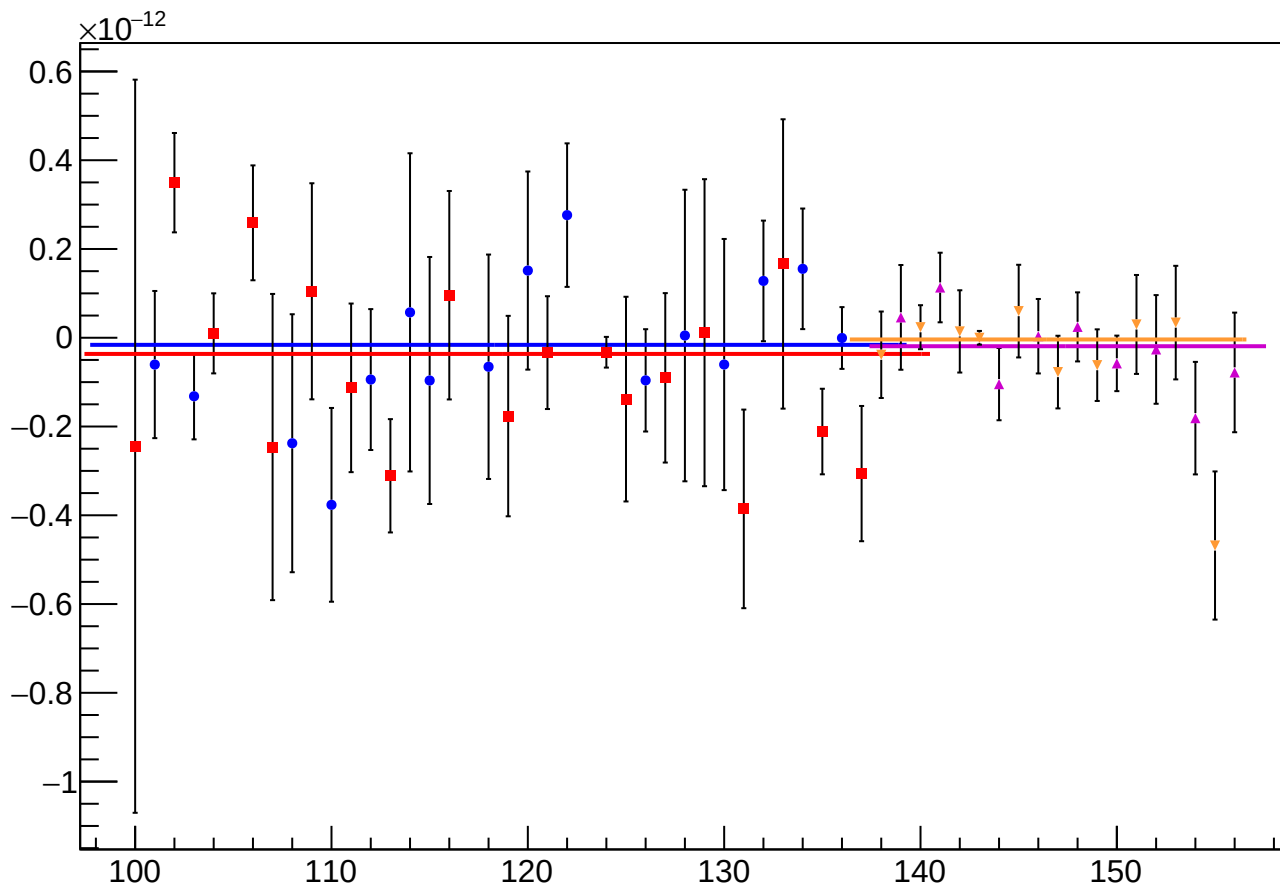
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514005.7/34

In: 170.738 $\pm$ 0.036 χ^2 /NDF: 5877041.0/24

Out: 149.238 $\pm$ 0.034 χ^2 /NDF: 8949285.0/28

All: 159.323 $\pm$ 0.025 χ^2 /NDF: 15017649.5/53

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 : 10.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 33.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.8/8

Left: -0.000+/-0.000 χ^2/NDF : 17.2/18

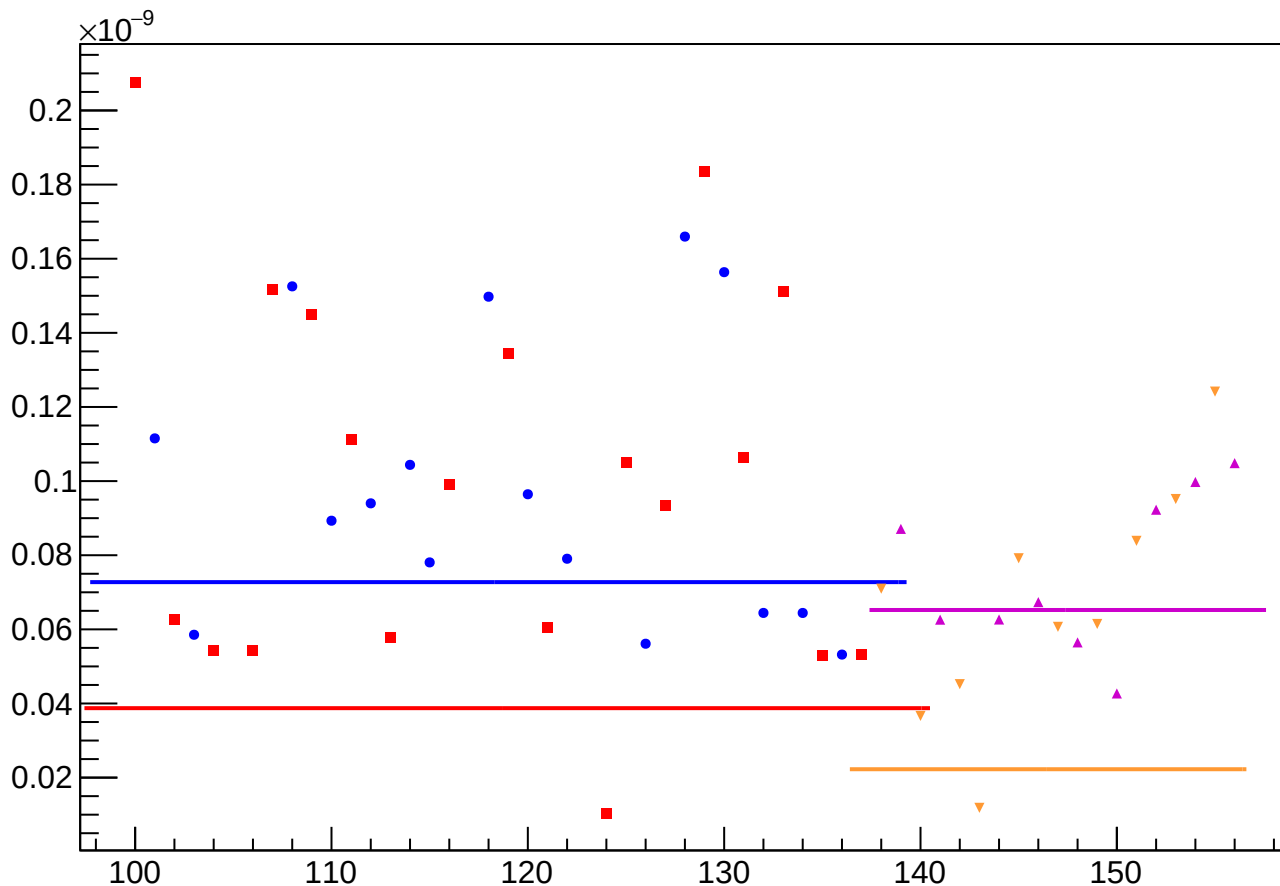
Right: -0.000+/-0.000 χ^2/NDF : 45.7/34

In: -0.000+/-0.000 χ^2/NDF : 19.2/24

Out: -0.000+/-0.000 χ^2/NDF : 44.6/28

All: -0.000+/-0.000 χ^2/NDF : 63.8/53

asym_atr1l2_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 : 5213736.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4266020.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 777724.9/8

Left: 0.000+/-0.000 χ^2/NDF : 9446538.6/18

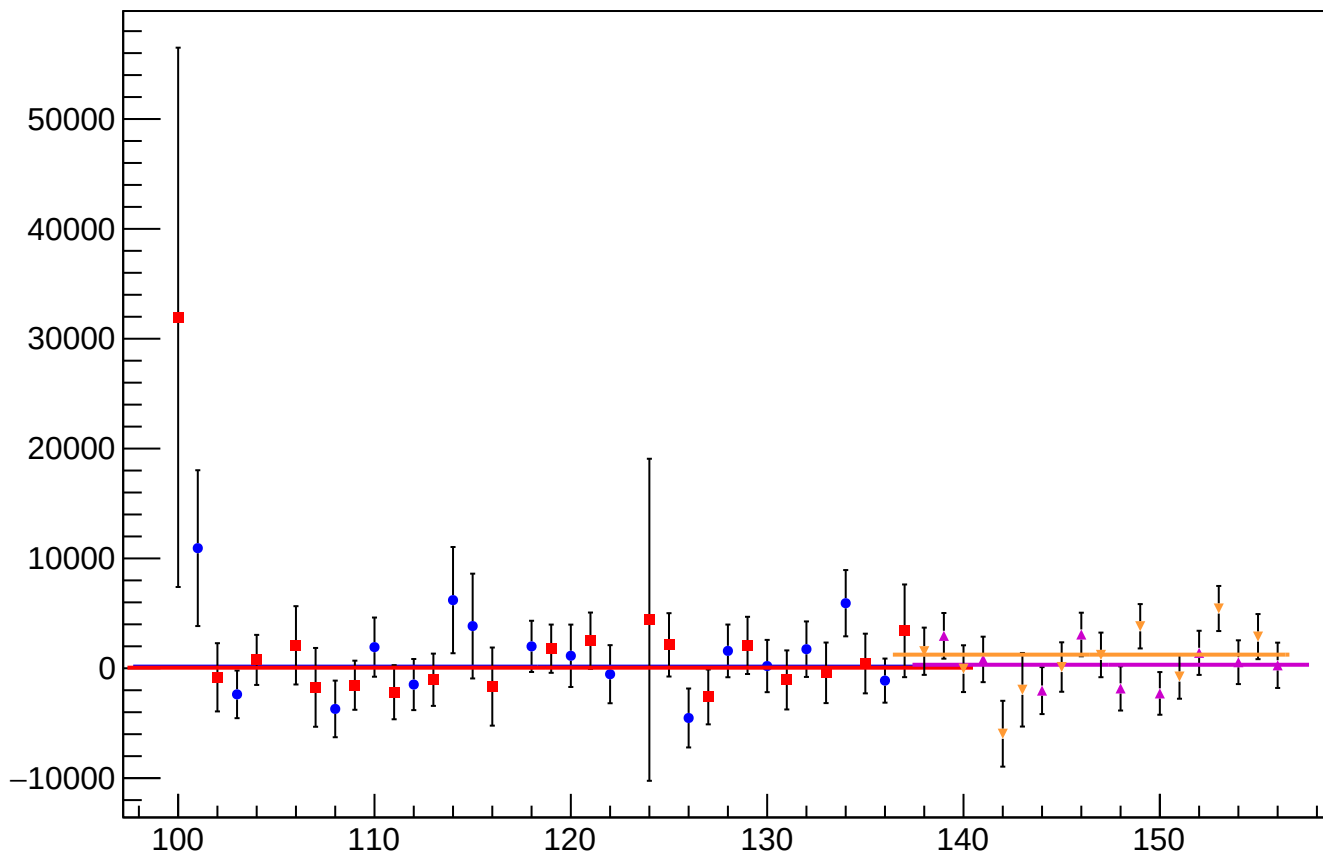
Right: 0.000+/-0.000 χ^2/NDF : 6532086.1/34

In: 0.000+/-0.000 χ^2/NDF : 1955557.7/24

Out: 0.000+/-0.000 χ^2/NDF : 10132939.9/28

All: 0.000+/-0.000 χ^2/NDF : 17303684.6/53

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.722 $\pm$ 667.029 χ^2 /NDF: 17.7/15

Left Out: 1241.167 $\pm$ 699.658 χ^2 /NDF:14.8/9

Right Out: 54.106 $\pm$ 655.266 χ^2 /NDF: 9.0/18

Left In: 320.312 $\pm$ 676.572 χ^2 /NDF:8.1/8

Left: 765.296 $\pm$ 486.366 χ^2 /NDF: 23.7/18

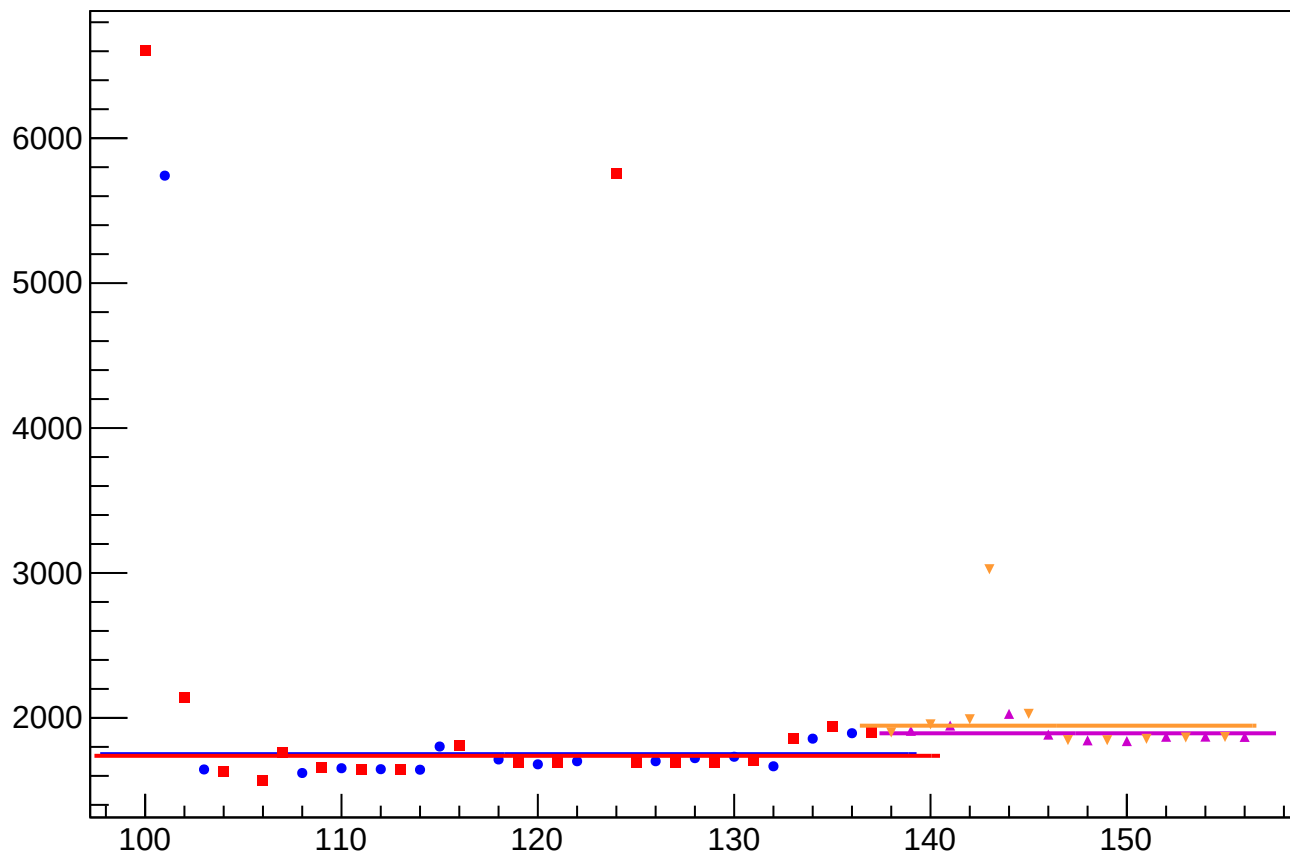
Right: 101.554 $\pm$ 467.446 χ^2 /NDF: 26.6/34

In: 234.312 $\pm$ 474.999 χ^2 /NDF:25.7/24

Out: 608.785 $\pm$ 478.267 χ^2 /NDF:25.3/28

All: 420.265 $\pm$ 337.024 χ^2 /NDF: 51.3/53

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.0/15

Left Out: 1946.451+/-0.495 χ^2/NDF : 231646.8/9

Right Out: 1738.493+/-0.460 χ^2/NDF : 304493.3/18

Left In: 1893.819+/-0.478 χ^2/NDF : 12927.1/8

Left: 1919.252+/-0.344 χ^2/NDF : 250422.6/18

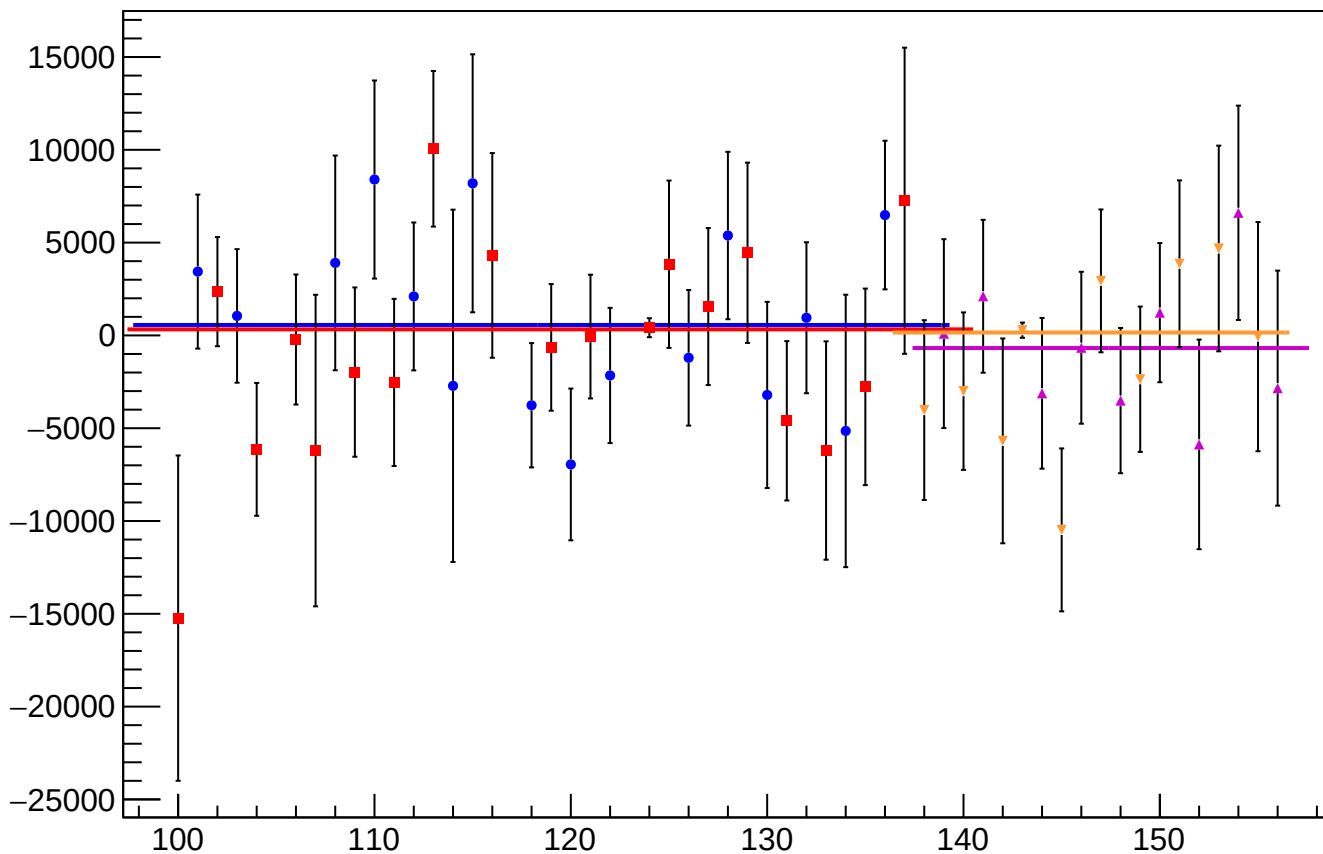
Right: 1744.036+/-0.329 χ^2/NDF : 974367.2/34

In: 1820.819+/-0.336 χ^2/NDF : 728417.5/24

Out: 1834.904+/-0.337 χ^2/NDF : 630914.5/28

All: 1827.841+/-0.238 χ^2/NDF : 1360208.7/53

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: 155.854 $\pm$ 395.310 χ^2 /NDF:10.7/9

Right Out: 325.567 $\pm$ 457.948 χ^2 /NDF: 19.2/18

Left In: -680.290 $\pm$ 1506.419 χ^2 /NDF:4.2/8

Left: 101.984 $\pm$ 382.364 χ^2 /NDF: 15.1/18

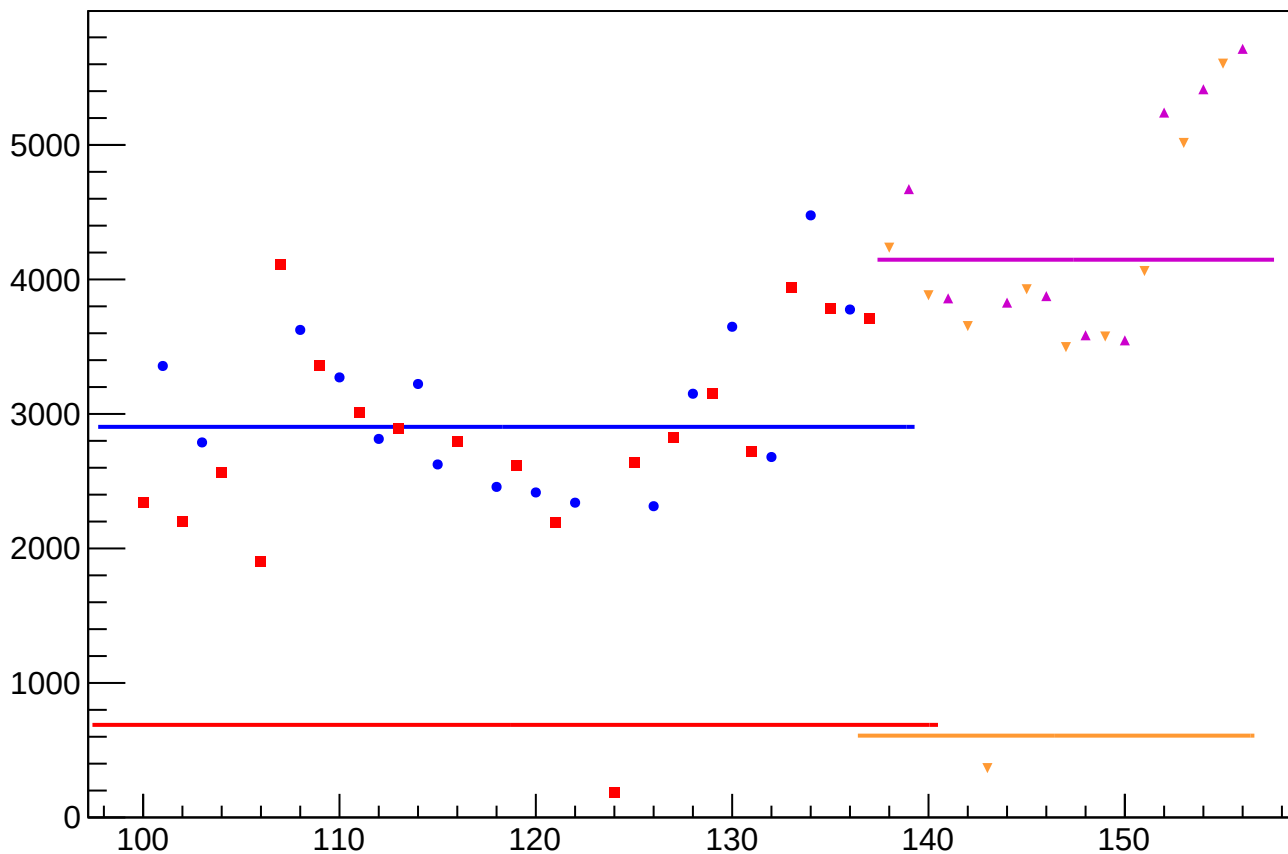
Right: 360.479 $\pm$ 422.840 χ^2 /NDF: 34.1/34

In: 129.593 $\pm$ 888.980 χ^2 /NDF:19.4/24

Out: 228.318 $\pm$ 299.241 χ^2 /NDF:30.0/28

All: 218.270 $\pm$ 283.605 χ^2 /NDF: 49.4/53

asym_atr1l2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2904.059 $\pm$ 0.779 χ^2 /NDF: 479774.3/15

Left Out: 608.283 $\pm$ 0.280 χ^2 /NDF: 10794589.0/9

Right Out: 688.319 $\pm$ 0.324 χ^2 /NDF: 10148914.1/18

Left In: 4146.693 $\pm$ 1.065 χ^2 /NDF: 438497.5/8

Left: 836.249 $\pm$ 0.270 χ^2 /NDF: 21556720.6/18

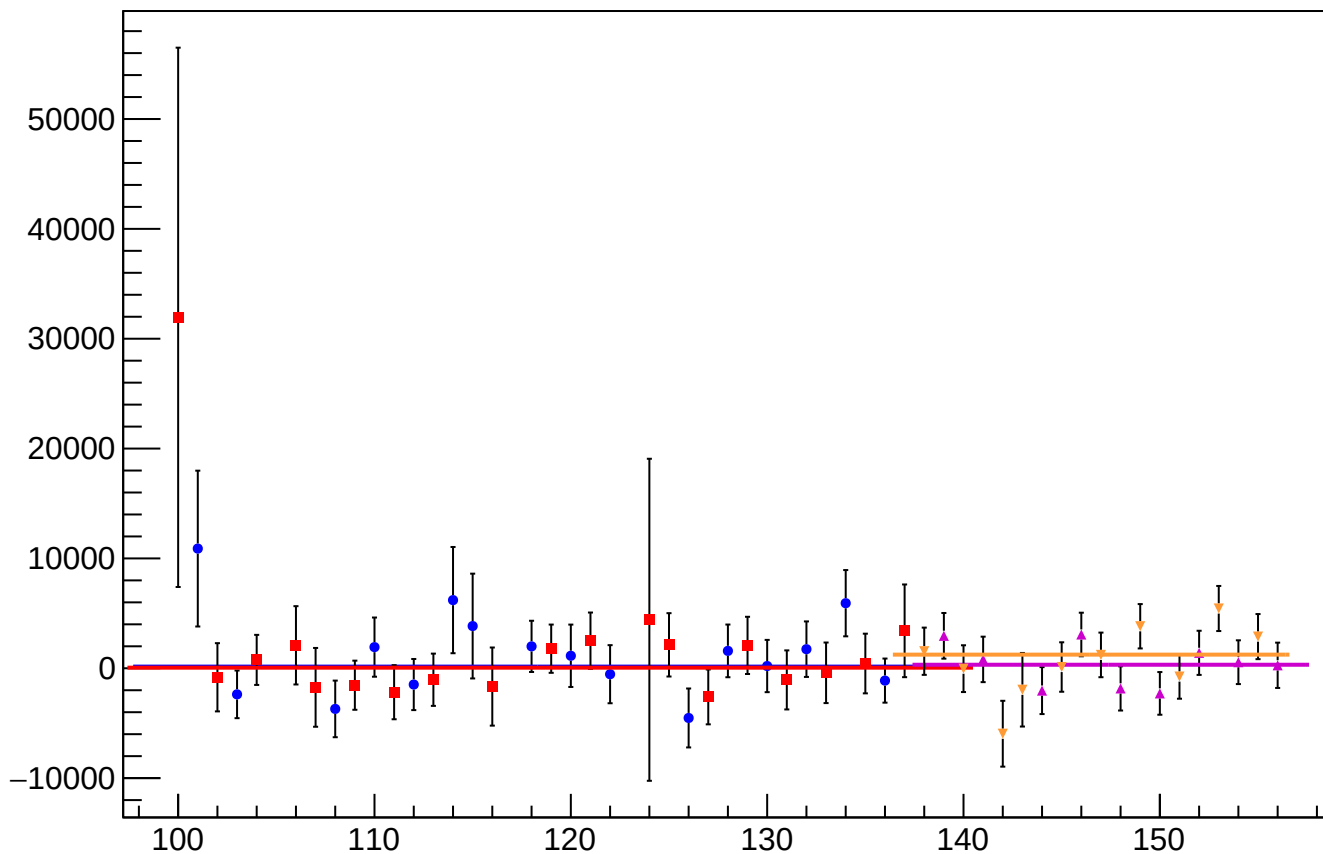
Right: 1015.033 $\pm$ 0.299 χ^2 /NDF: 17532420.1/34

In: 3336.807 $\pm$ 0.629 χ^2 /NDF: 1805233.9/24

Out: 642.457 $\pm$ 0.212 χ^2 /NDF: 20978508.3/28

All: 916.677 $\pm$ 0.201 χ^2 /NDF: 39285842.3/53

cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254+/-667.029 χ^2/NDF : 17.6/15

Left Out: 1241.105+/-699.658 χ^2/NDF : 14.8/9

Right Out: 54.158+/-655.266 χ^2/NDF : 9.0/18

Left In: 320.303+/-676.572 χ^2/NDF : 8.1/8

Left: 765.262+/-486.366 χ^2/NDF : 23.7/18

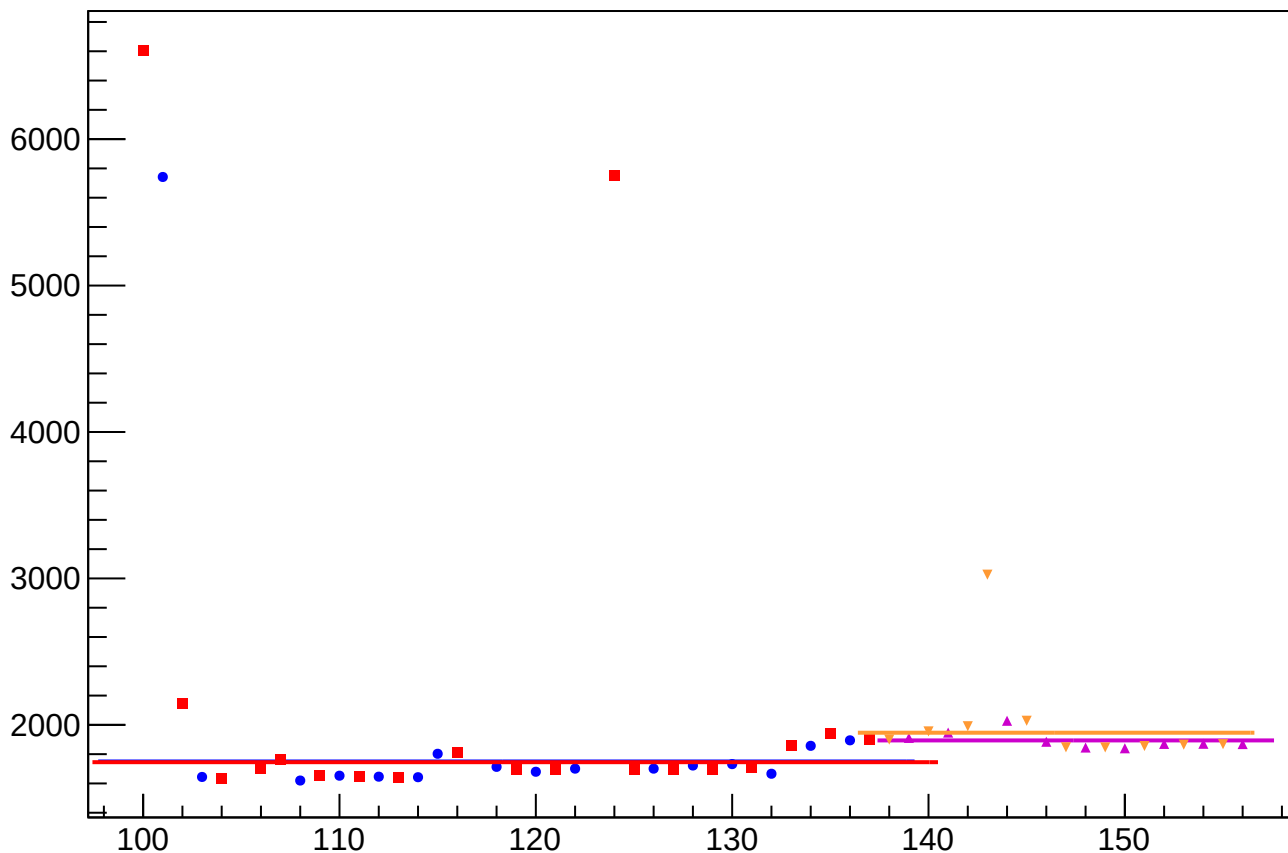
Right: 101.351+/-467.446 χ^2/NDF : 26.6/34

In: 234.071+/-474.999 χ^2/NDF : 25.7/24

Out: 608.784+/-478.267 χ^2/NDF : 25.2/28

All: 420.143+/-337.024 χ^2/NDF : 51.3/53

cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.1/15

Left Out: 1946.451+/-0.495 χ^2/NDF : 231646.8/9

Right Out: 1745.188+/-0.462 χ^2/NDF : 297979.0/18

Left In: 1893.819+/-0.478 χ^2/NDF : 12927.1/8

Left: 1919.252+/-0.344 χ^2/NDF : 250422.6/18

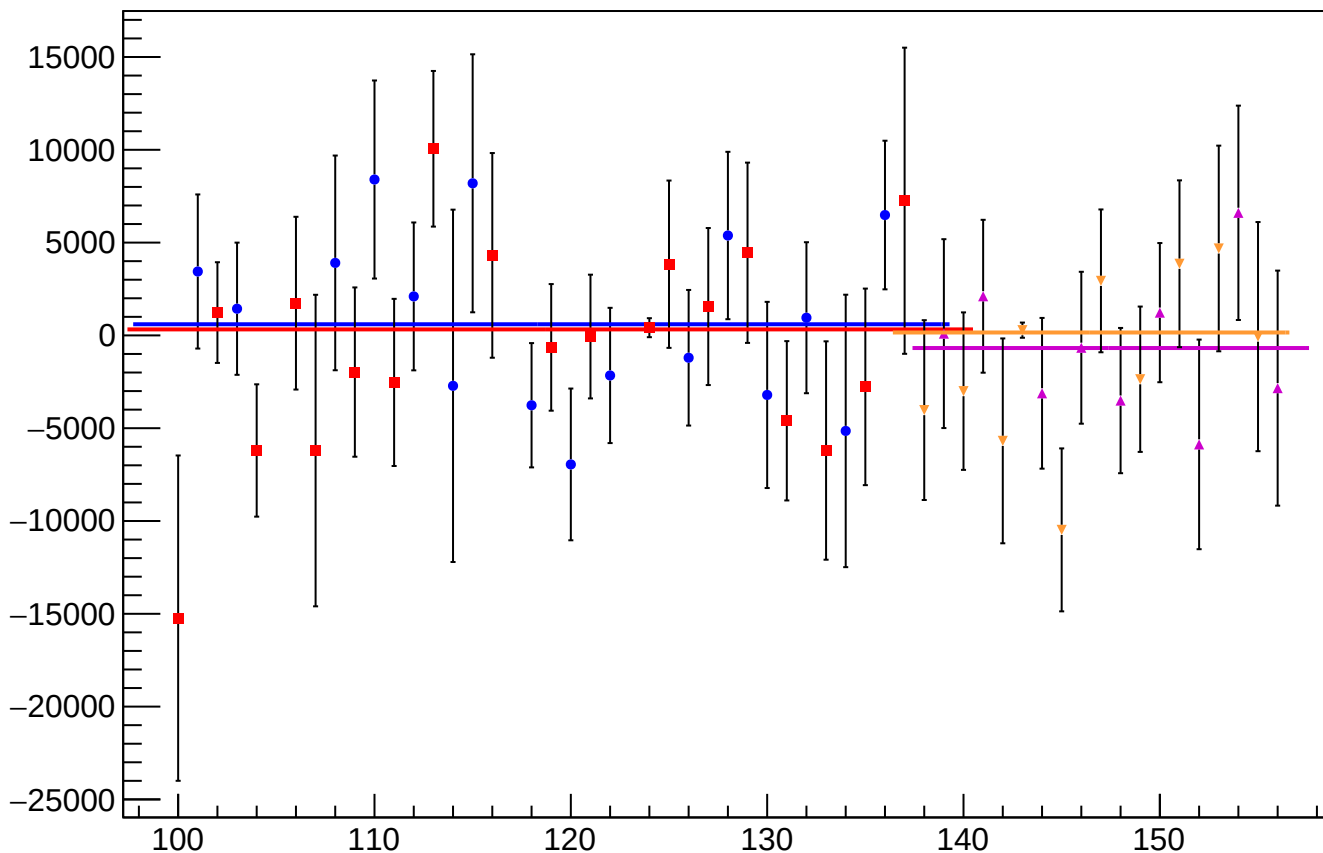
Right: 1747.476+/-0.330 χ^2/NDF : 967605.3/34

In: 1820.819+/-0.336 χ^2/NDF : 728417.9/24

Out: 1838.858+/-0.338 χ^2/NDF : 618098.3/28

All: 1829.795+/-0.238 χ^2/NDF : 1347951.4/53

asym_atr1l2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 ± 1100.125 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 156.809 ± 395.343 $\chi^2/\text{NDF}: 10.7/9$

Right Out: 323.164 ± 458.862 $\chi^2/\text{NDF}: 19.0/18$

Left In: -680.387 ± 1506.416 $\chi^2/\text{NDF}: 4.2/8$

Left: 102.863 ± 382.394 $\chi^2/\text{NDF}: 15.1/18$

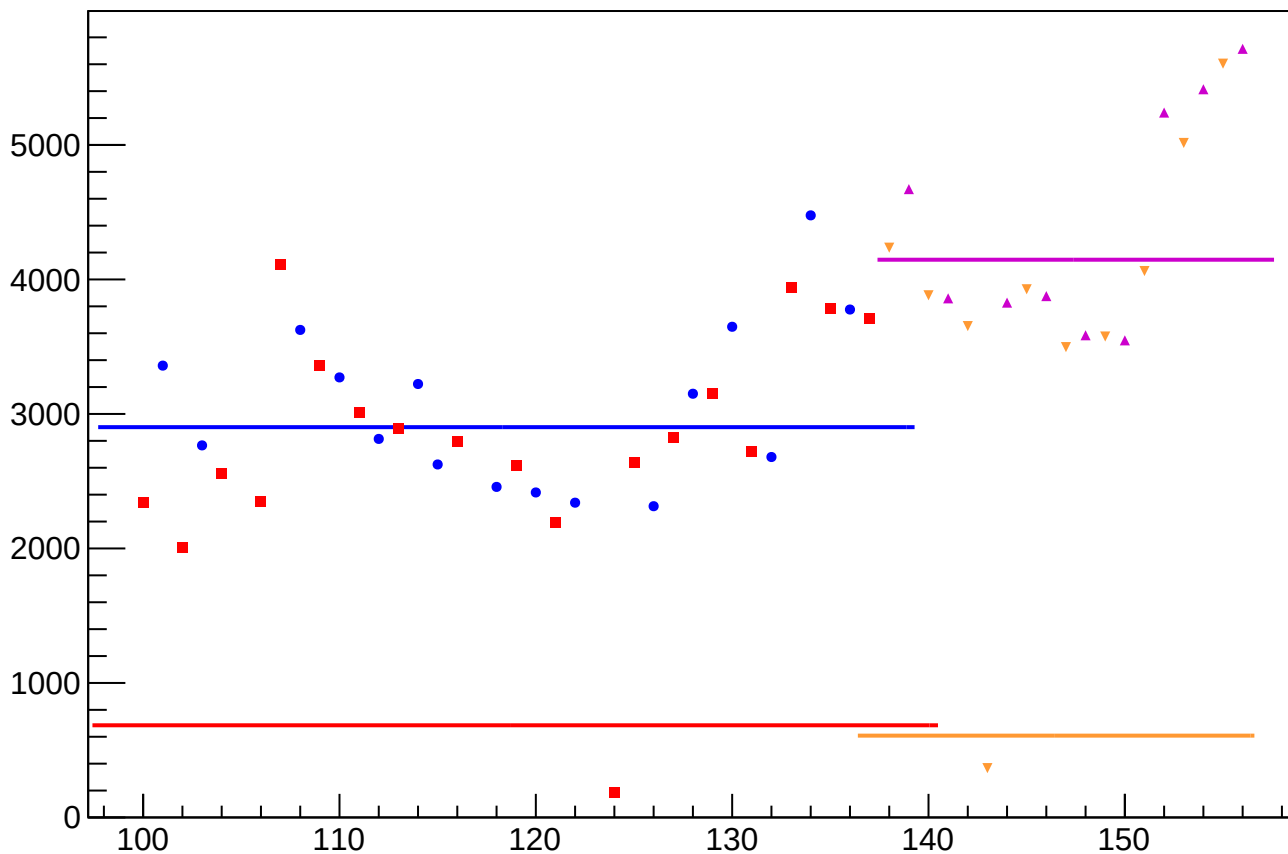
Right: 364.218 ± 423.500 $\chi^2/\text{NDF}: 33.9/34$

In: 154.782 ± 888.433 $\chi^2/\text{NDF}: 19.5/24$

Out: 227.684 ± 299.510 $\chi^2/\text{NDF}: 29.8/28$

All: 220.245 ± 283.816 $\chi^2/\text{NDF}: 49.3/53$

asym_atr1l2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2901.861+/-0.778 χ^2/NDF : 480934.2/15

Left Out: 608.362+/-0.280 χ^2/NDF : 10794237.1/9

Right Out: 685.257+/-0.324 χ^2/NDF : 10105797.4/18

Left In: 4146.682+/-1.065 χ^2/NDF : 438505.6/8

Left: 836.358+/-0.270 χ^2/NDF : 21555792.8/18

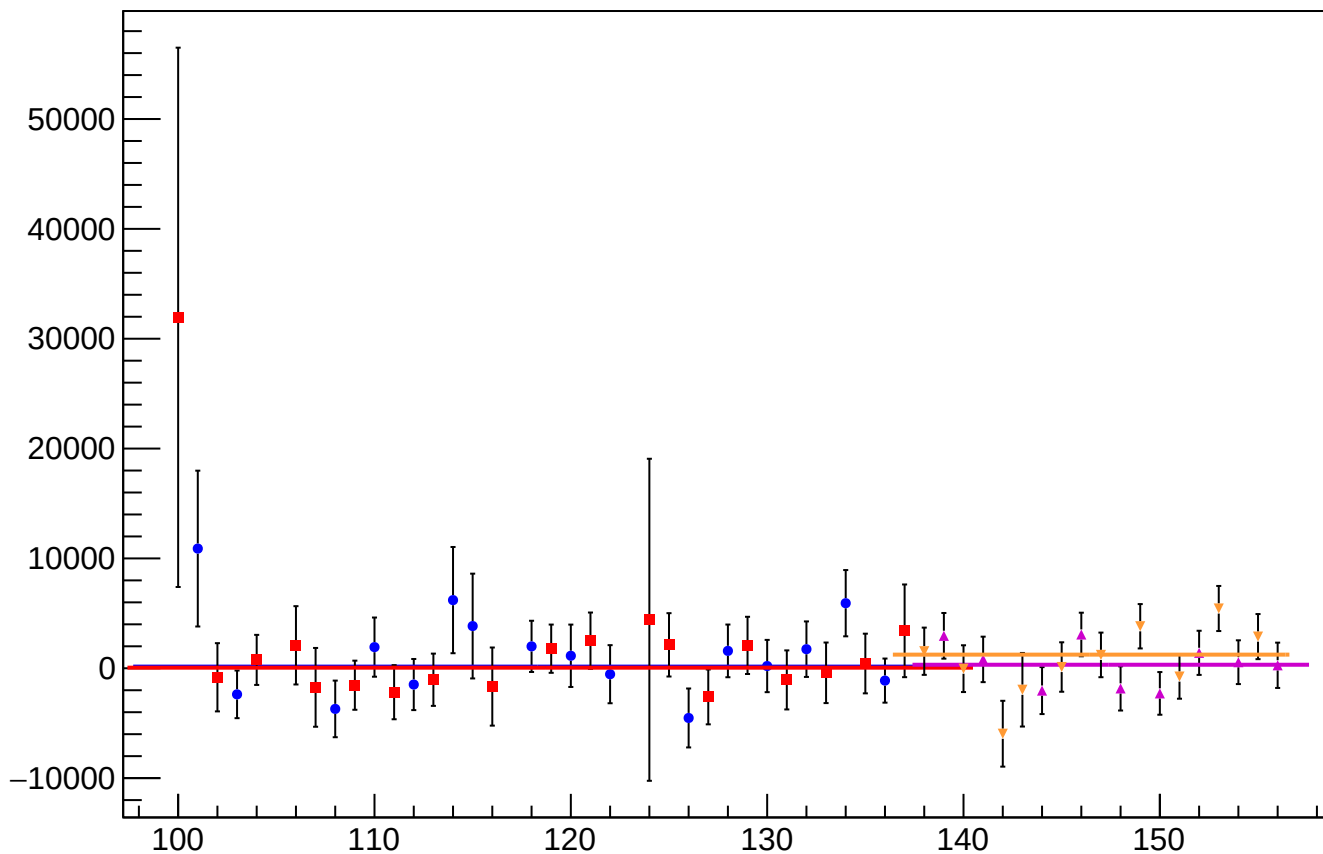
Right: 1013.738+/-0.299 χ^2/NDF : 17502877.4/34

In: 3334.840+/-0.628 χ^2/NDF : 1810114.1/24

Out: 641.123+/-0.212 χ^2/NDF : 20932270.4/28

All: 916.024+/-0.201 χ^2/NDF : 39251949.4/53

eigen_cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254+/-667.029 χ^2/NDF : 17.6/15

Left Out: 1241.105+/-699.658 χ^2/NDF : 14.8/9

Right Out: 54.158+/-655.266 χ^2/NDF : 9.0/18

Left In: 320.303+/-676.572 χ^2/NDF : 8.1/8

Left: 765.262+/-486.366 χ^2/NDF : 23.7/18

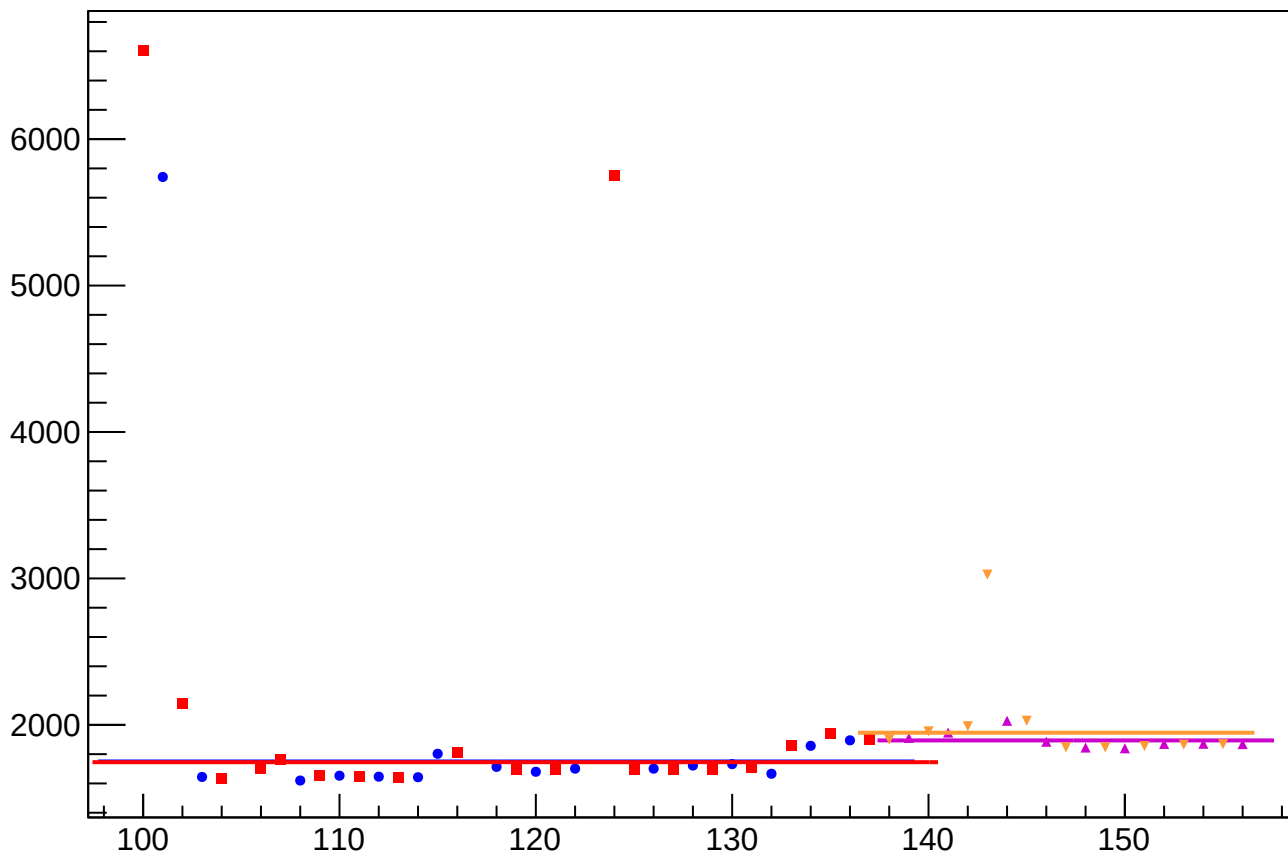
Right: 101.351+/-467.446 χ^2/NDF : 26.6/34

In: 234.071+/-474.999 χ^2/NDF : 25.7/24

Out: 608.784+/-478.267 χ^2/NDF : 25.2/28

All: 420.143+/-337.024 χ^2/NDF : 51.3/53

eigen_cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864 $\pm$ 0.472 χ^2/NDF : 669576.1/15

Left Out: 1946.451 $\pm$ 0.495 χ^2/NDF :231646.8/9

Right Out: 1745.188 $\pm$ 0.462 χ^2/NDF : 297979.0/18

Left In: 1893.819 $\pm$ 0.478 χ^2/NDF :12927.1/8

Left: 1919.252 $\pm$ 0.344 χ^2/NDF : 250422.6/18

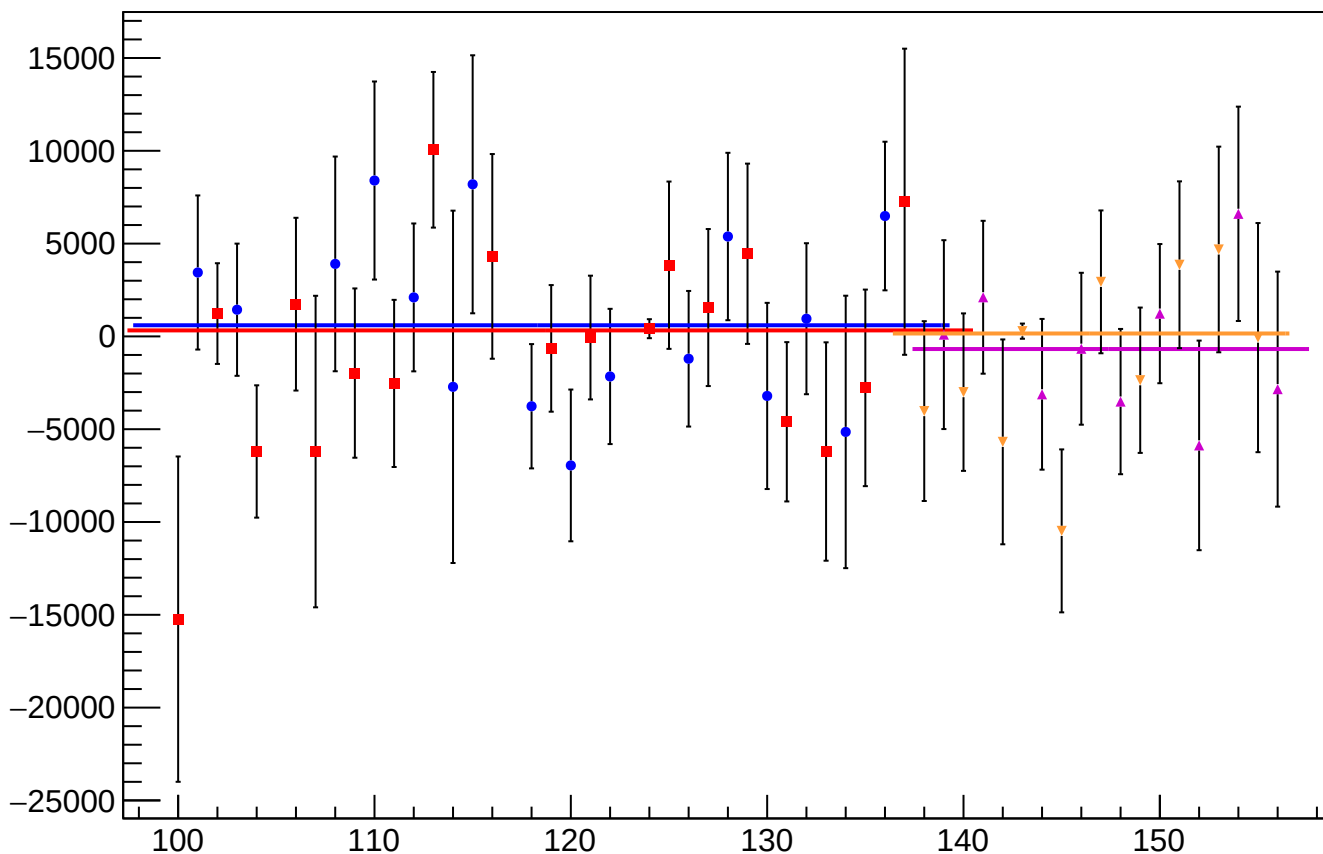
Right: 1747.476 $\pm$ 0.330 χ^2/NDF : 967605.3/34

In: 1820.819 $\pm$ 0.336 χ^2/NDF :728417.9/24

Out: 1838.858 $\pm$ 0.338 χ^2/NDF :618098.3/28

All: 1829.795 $\pm$ 0.238 χ^2/NDF : 1347951.4/53

asym_atr1l2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 ± 1100.125 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 156.809 ± 395.343 $\chi^2/\text{NDF}: 10.7/9$

Right Out: 323.164 ± 458.862 $\chi^2/\text{NDF}: 19.0/18$

Left In: -680.387 ± 1506.416 $\chi^2/\text{NDF}: 4.2/8$

Left: 102.863 ± 382.394 $\chi^2/\text{NDF}: 15.1/18$

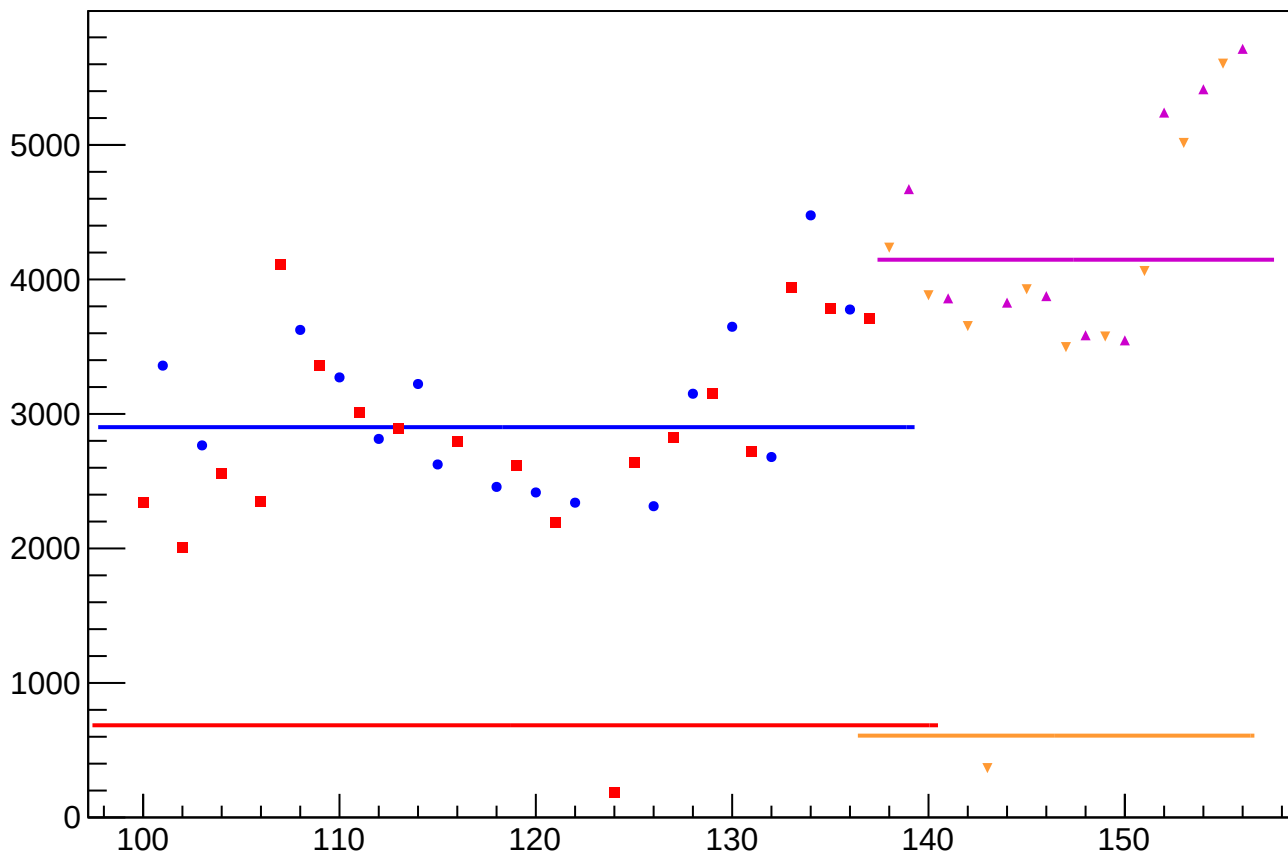
Right: 364.218 ± 423.500 $\chi^2/\text{NDF}: 33.9/34$

In: 154.782 ± 888.433 $\chi^2/\text{NDF}: 19.5/24$

Out: 227.684 ± 299.510 $\chi^2/\text{NDF}: 29.8/28$

All: 220.245 ± 283.816 $\chi^2/\text{NDF}: 49.3/53$

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: 608.362+/-0.280 χ^2/NDF : 10794237.1/9

Right Out: 685.257+/-0.324 χ^2/NDF : 10105797.4/18

Left In: 4146.682+/-1.065 χ^2/NDF : 438505.6/8

Left: 836.358+/-0.270 χ^2/NDF : 21555792.8/18

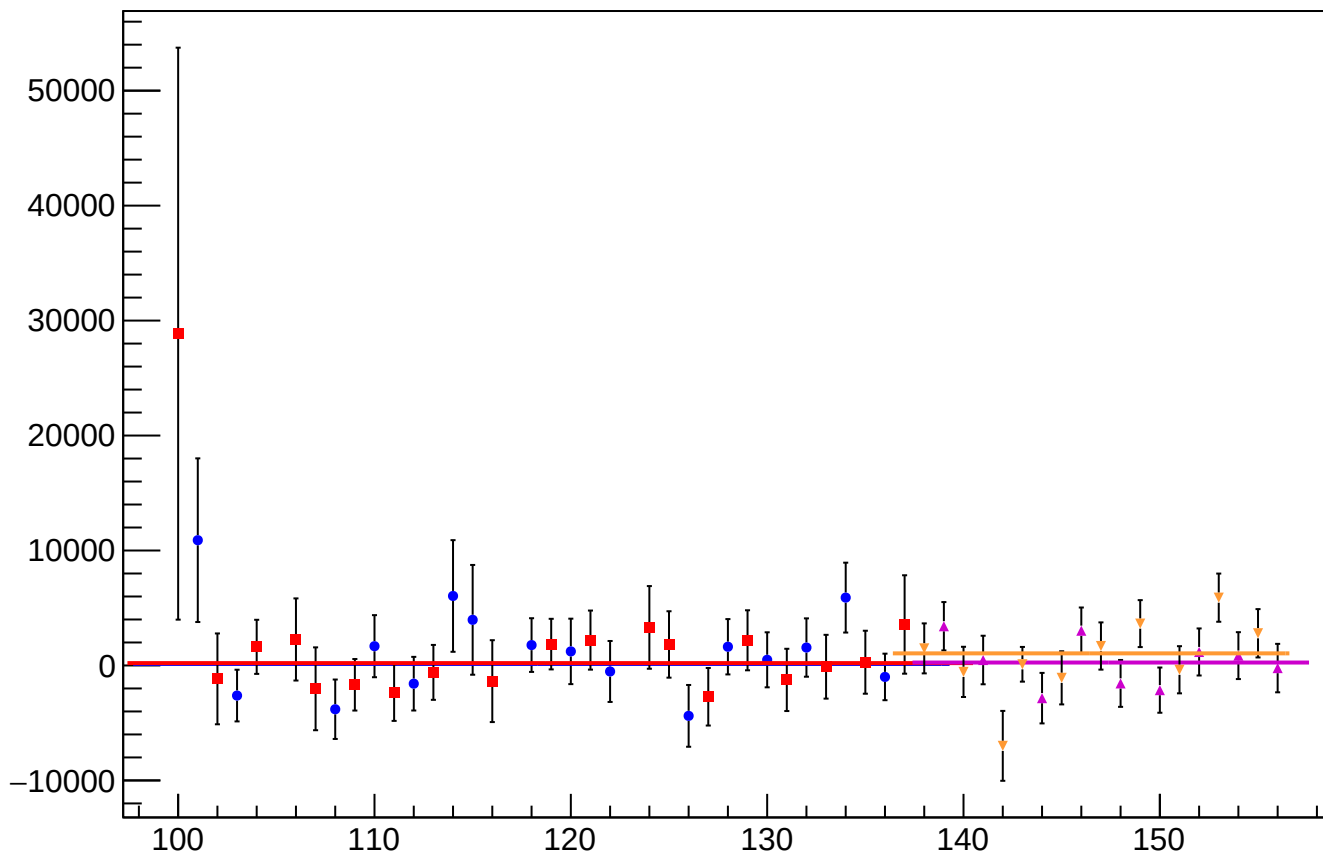
Right: 1013.738+/-0.299 χ^2/NDF : 17502877.4/34

In: 3334.840+/-0.628 χ^2/NDF : 1810114.1/24

Out: 641.123+/-0.212 χ^2/NDF : 20932270.4/28

All: 916.024+/-0.201 χ^2/NDF : 39251949.4/53

dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.838 $\pm$ 671.621 χ^2 /NDF: 17.3/15

Left Out: 1053.187 $\pm$ 656.016 χ^2 /NDF: 17.1/9

Right Out: 205.424 $\pm$ 654.444 χ^2 /NDF: 9.7/18

Left In: 255.307 $\pm$ 688.965 χ^2 /NDF: 8.8/8

Left: 673.782 $\pm$ 475.095 χ^2 /NDF: 26.5/18

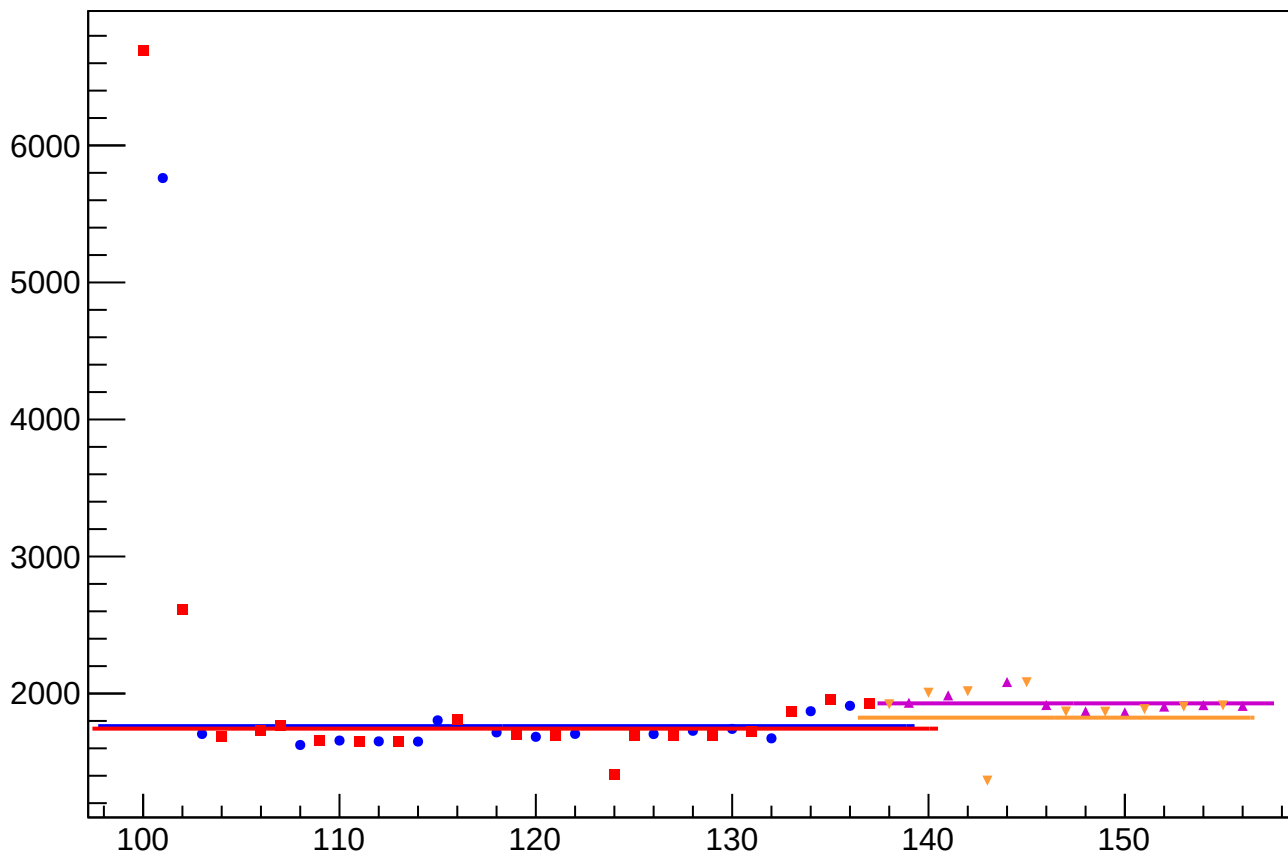
Right: 170.558 $\pm$ 468.717 χ^2 /NDF: 27.0/34

In: 193.024 $\pm$ 480.922 χ^2 /NDF: 26.1/24

Out: 628.289 $\pm$ 463.317 χ^2 /NDF: 27.6/28

All: 418.769 $\pm$ 333.665 χ^2 /NDF: 54.1/53

dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052 +/- 0.475 χ^2/NDF : 667696.6/15

Left Out: 1823.957 +/- 0.464 χ^2/NDF : 246320.6/9

Right Out: 1743.723 +/- 0.461 χ^2/NDF : 227762.1/18

Left In: 1928.246 +/- 0.487 χ^2/NDF : 15970.1/8

Left: 1873.549 +/- 0.336 χ^2/NDF : 286325.8/18

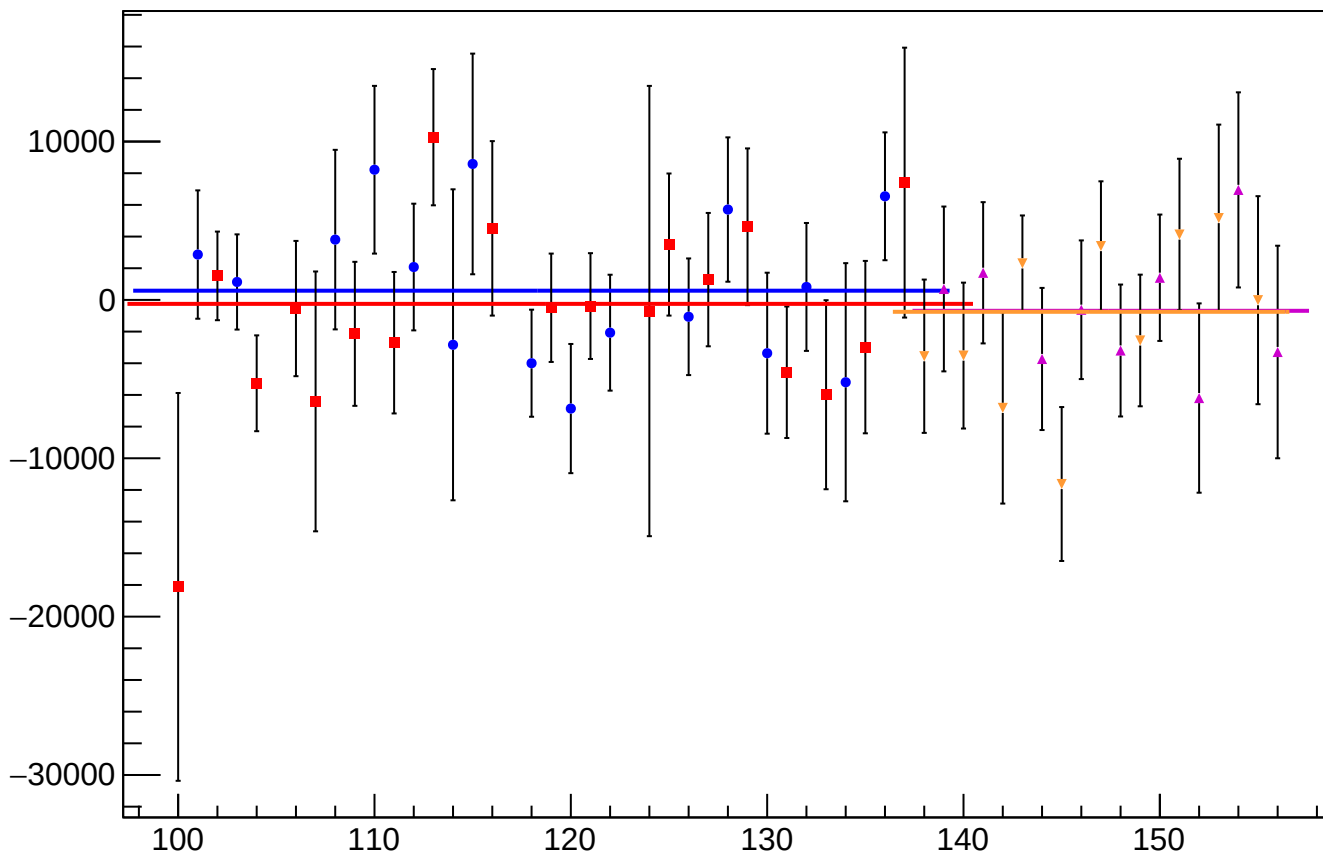
Right: 1752.624 +/- 0.331 χ^2/NDF : 896224.9/34

In: 1843.031 +/- 0.340 χ^2/NDF : 743338.8/24

Out: 1783.628 +/- 0.327 χ^2/NDF : 489120.2/28

All: 1812.179 +/- 0.236 χ^2/NDF : 1248306.5/53

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: -750.622 $\pm$ 1440.514 χ^2 /NDF:11.0/9

Right Out: -250.224 $\pm$ 1021.012 χ^2 /NDF: 17.9/18

Left In: -688.180 $\pm$ 1609.512 χ^2 /NDF:4.0/8

Left: -722.850 $\pm$ 1073.390 χ^2 /NDF: 15.0/18

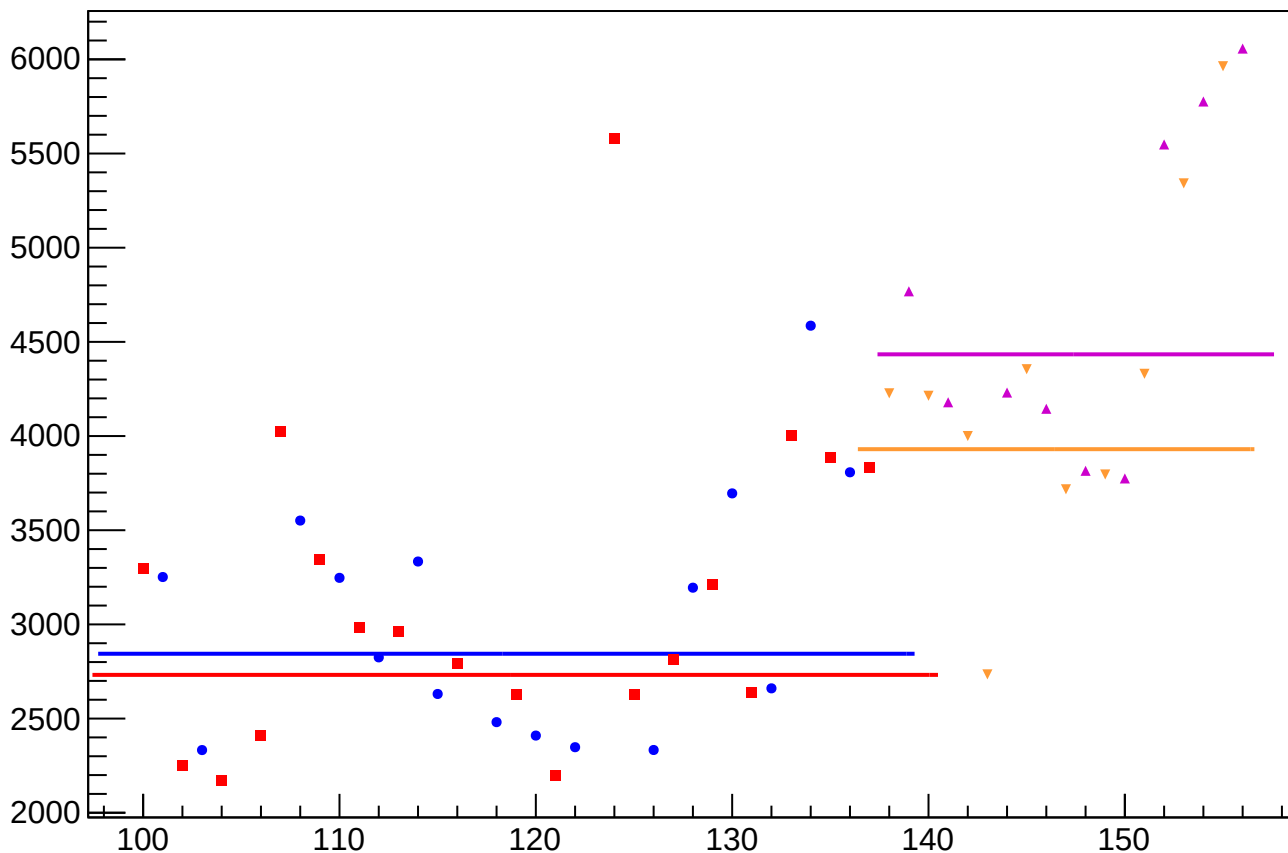
Right: 142.078 $\pm$ 742.422 χ^2 /NDF: 33.1/34

In: 187.060 $\pm$ 897.660 χ^2 /NDF:19.3/24

Out: -417.551 $\pm$ 832.994 χ^2 /NDF:29.0/28

All: -137.805 $\pm$ 610.598 χ^2 /NDF: 48.5/53

asym_atr1l2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.153 $\pm$ 0.765 χ^2 /NDF: 542032.5/15

Left Out: 3930.283 $\pm$ 1.019 χ^2 /NDF: 670147.9/9

Right Out: 2731.978 $\pm$ 0.722 χ^2 /NDF: 611275.1/18

Left In: 4433.840 $\pm$ 1.138 χ^2 /NDF: 407675.7/8

Left: 4154.246 $\pm$ 0.759 χ^2 /NDF: 1186521.0/18

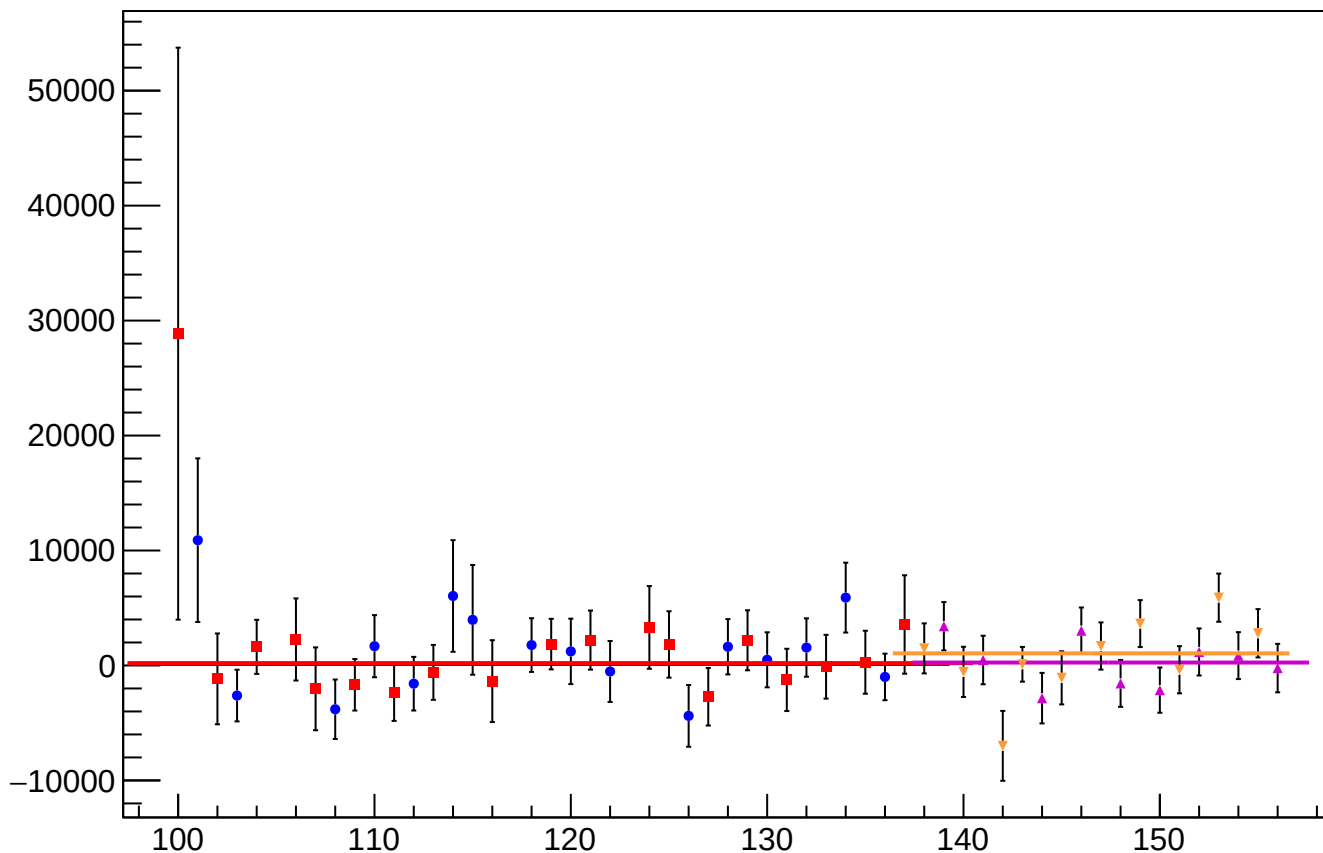
Right: 2784.841 $\pm$ 0.525 χ^2 /NDF: 1164684.5/34

In: 3338.630 $\pm$ 0.635 χ^2 /NDF: 2293867.3/24

Out: 3132.675 $\pm$ 0.589 χ^2 /NDF: 2202619.5/28

All: 3227.968 $\pm$ 0.432 χ^2 /NDF: 4553055.9/53

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: 1053.181 $\pm$ 656.016 χ^2 /NDF: 17.1/9

Right Out: 205.422 $\pm$ 654.444 χ^2 /NDF: 9.7/18

Left In: 255.305 $\pm$ 688.965 χ^2 /NDF: 8.8/8

Left: 673.778 $\pm$ 475.095 χ^2 /NDF: 26.5/18

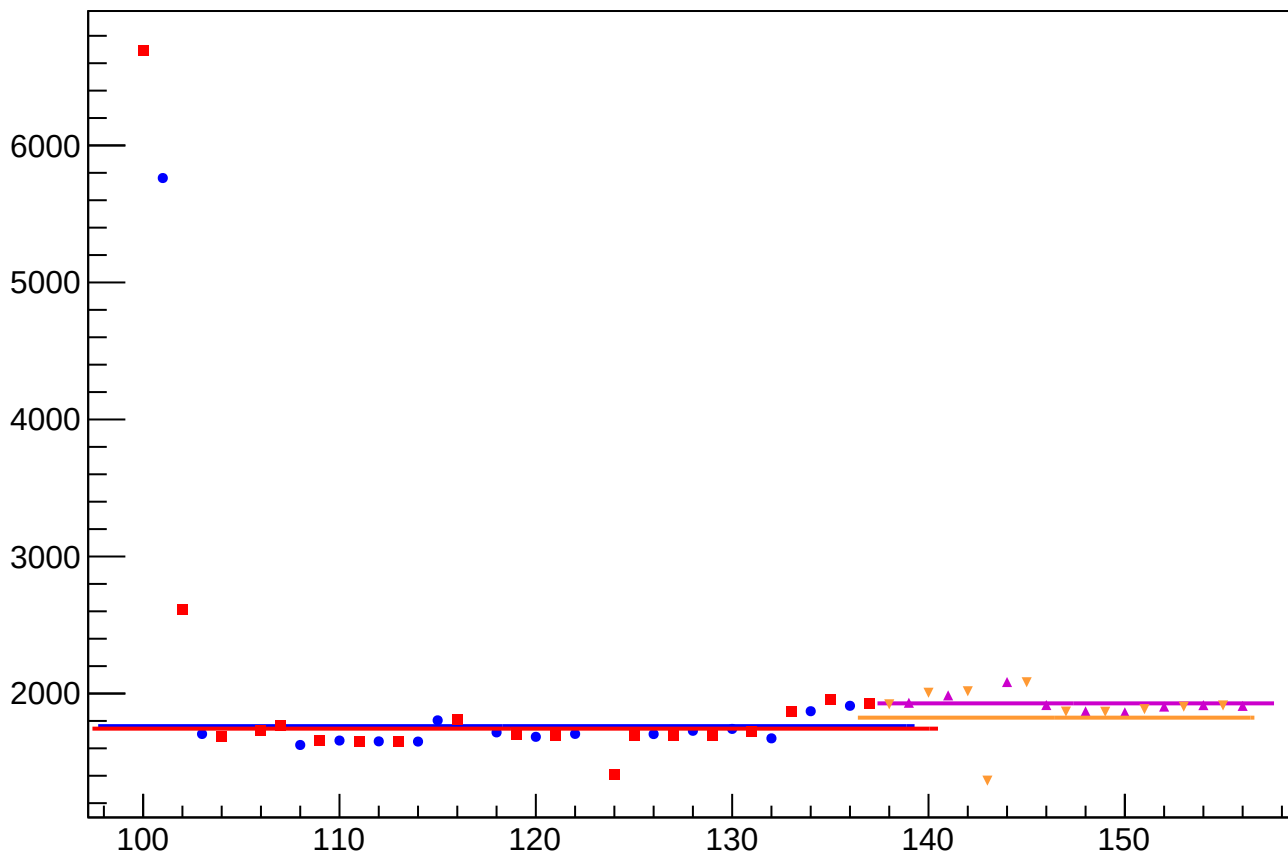
Right: 170.557 $\pm$ 468.717 χ^2 /NDF: 27.0/34

In: 193.022 $\pm$ 480.922 χ^2 /NDF: 26.1/24

Out: 628.285 $\pm$ 463.317 χ^2 /NDF: 27.6/28

All: 418.767 $\pm$ 333.665 χ^2 /NDF: 54.1/53

eigen_dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052+/-0.475 χ^2/NDF : 667696.6/15

Left Out: 1823.958+/-0.464 χ^2/NDF : 246321.6/9

Right Out: 1743.723+/-0.461 χ^2/NDF : 227762.1/18

Left In: 1928.247+/-0.487 χ^2/NDF : 15970.3/8

Left: 1873.549+/-0.336 χ^2/NDF : 286327.1/18

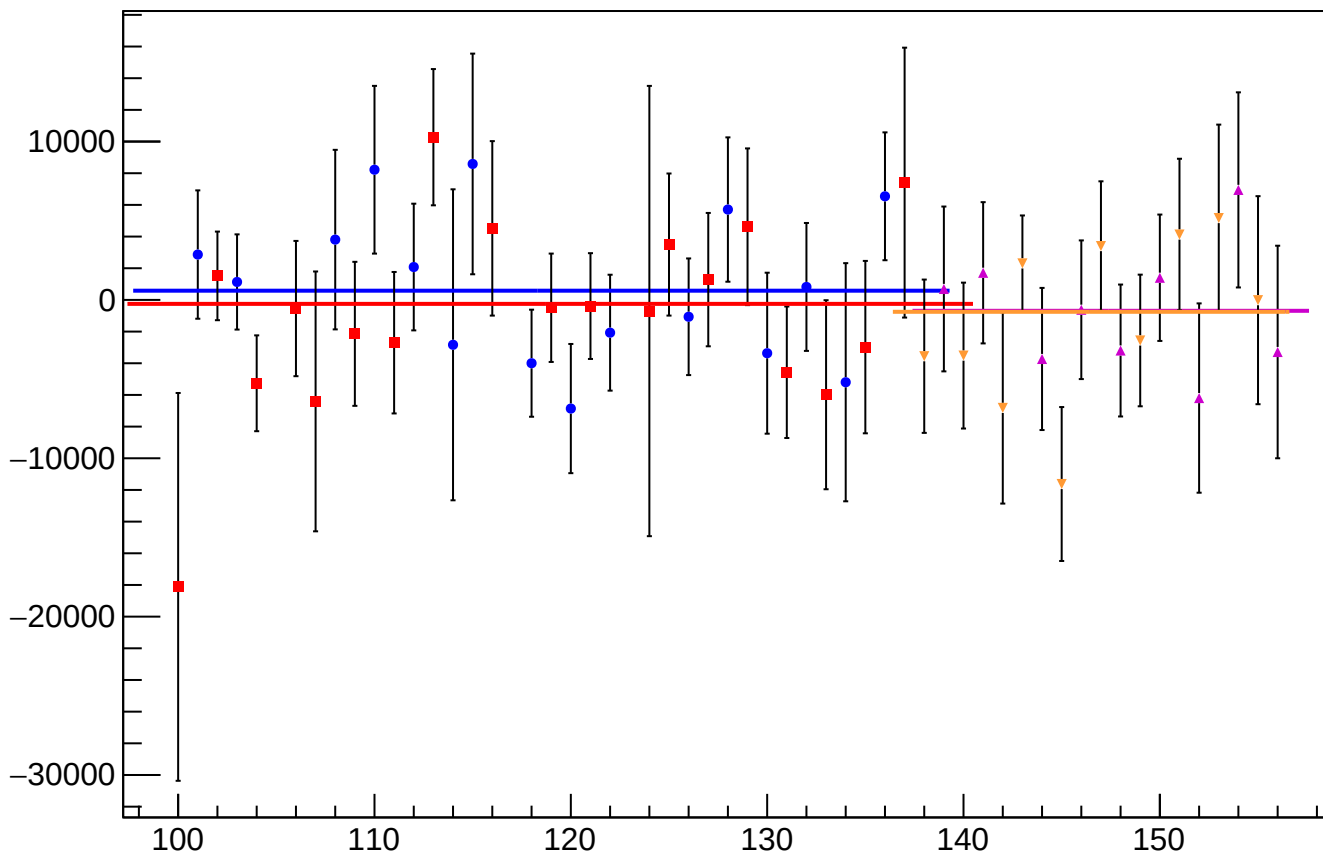
Right: 1752.624+/-0.331 χ^2/NDF : 896224.9/34

In: 1843.031+/-0.340 χ^2/NDF : 743339.6/24

Out: 1783.629+/-0.327 χ^2/NDF : 489121.5/28

All: 1812.180+/-0.236 χ^2/NDF : 1248308.7/53

asym_atr1l2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 582.219 ± 1081.478 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -750.620 ± 1440.516 $\chi^2/\text{NDF}: 11.0/9$

Right Out: -250.225 ± 1021.010 $\chi^2/\text{NDF}: 17.9/18$

Left In: -688.180 ± 1609.514 $\chi^2/\text{NDF}: 4.0/8$

Left: -722.849 ± 1073.391 $\chi^2/\text{NDF}: 15.0/18$

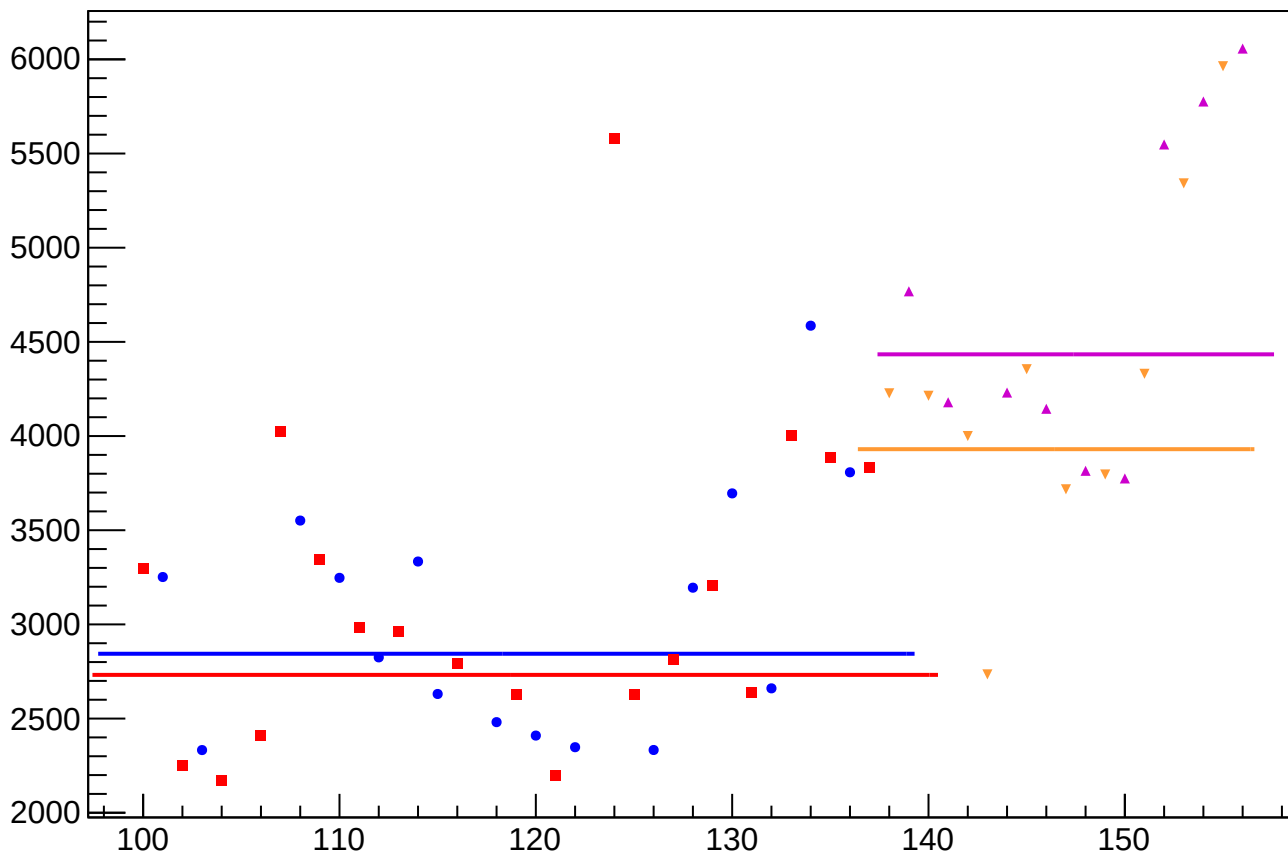
Right: 142.075 ± 742.420 $\chi^2/\text{NDF}: 33.1/34$

In: 187.059 ± 897.658 $\chi^2/\text{NDF}: 19.3/24$

Out: -417.550 ± 832.993 $\chi^2/\text{NDF}: 29.0/28$

All: -137.805 ± 610.597 $\chi^2/\text{NDF}: 48.5/53$

asym_atr1l2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.145 $\pm$ 0.765 χ^2 /NDF: 542036.2/15

Left Out: 3930.287 $\pm$ 1.019 χ^2 /NDF: 670152.4/9

Right Out: 2731.972 $\pm$ 0.722 χ^2 /NDF: 611272.5/18

Left In: 4433.846 $\pm$ 1.138 χ^2 /NDF: 407678.3/8

Left: 4154.250 $\pm$ 0.759 χ^2 /NDF: 1186528.5/18

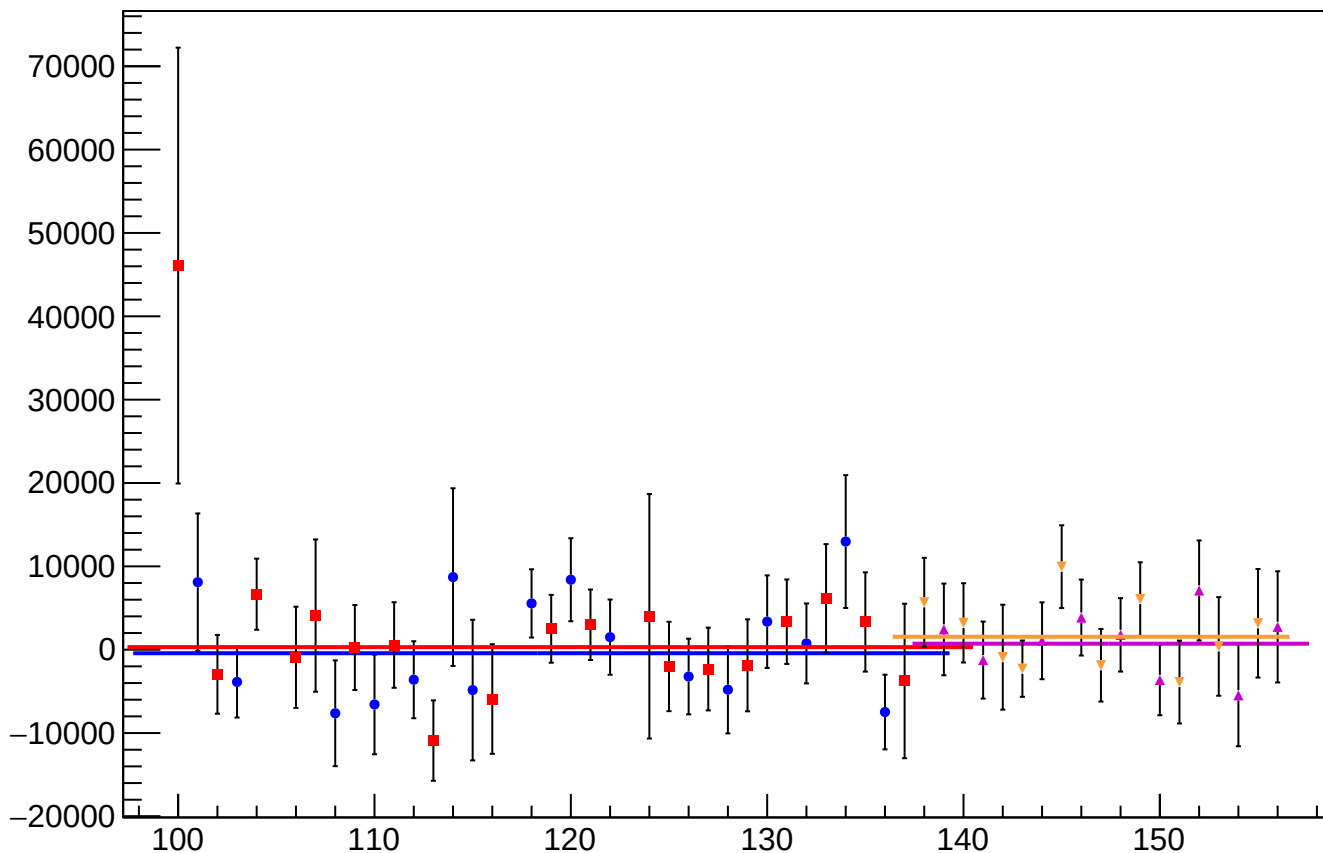
Right: 2784.835 $\pm$ 0.525 χ^2 /NDF: 1164685.2/34

In: 3338.624 $\pm$ 0.635 χ^2 /NDF: 2293895.7/24

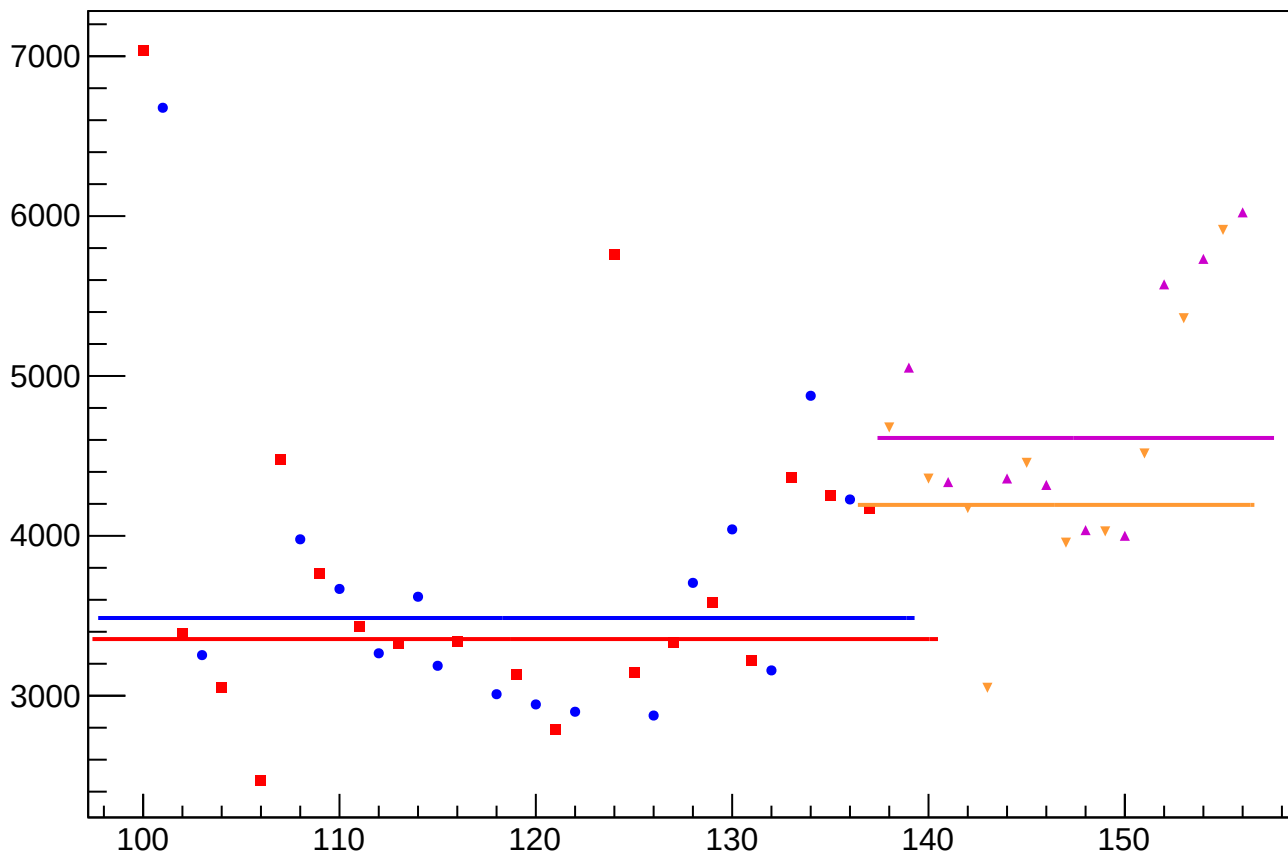
Out: 3132.671 $\pm$ 0.589 χ^2 /NDF: 2202635.9/28

All: 3227.963 $\pm$ 0.432 χ^2 /NDF: 4553099.7/53

asym_atr1l2_dd_mean vs Slug, Sign Corrected



asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3486.167+/-0.939 χ^2/NDF : 595790.9/15

Left Out: 4193.687+/-1.079 χ^2/NDF : 488697.1/9

Right Out: 3354.426+/-0.889 χ^2/NDF : 376426.3/18

Left In: 4612.310+/-1.179 χ^2/NDF : 318457.4/8

Left: 4384.421+/-0.796 χ^2/NDF : 875778.9/18

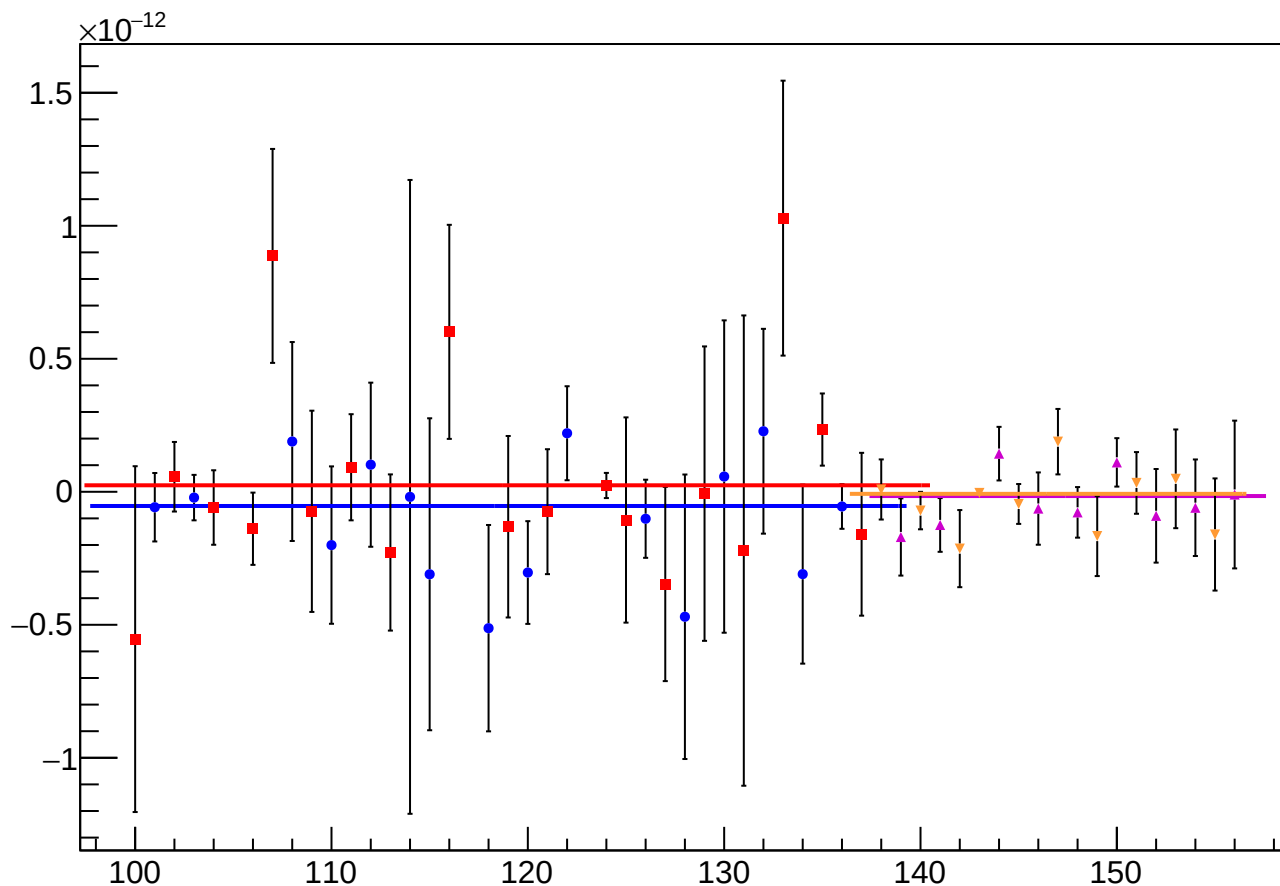
Right: 3416.767+/-0.646 χ^2/NDF : 982597.4/34

In: 3922.945+/-0.734 χ^2/NDF : 1472686.8/24

Out: 3694.129+/-0.686 χ^2/NDF : 1225461.4/28

All: 3800.809+/-0.501 χ^2/NDF : 2749980.1/53

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 : 7.6/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 18.4/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.5/8

Left: -0.000 ± 0.000 χ^2/NDF : 15.1/18

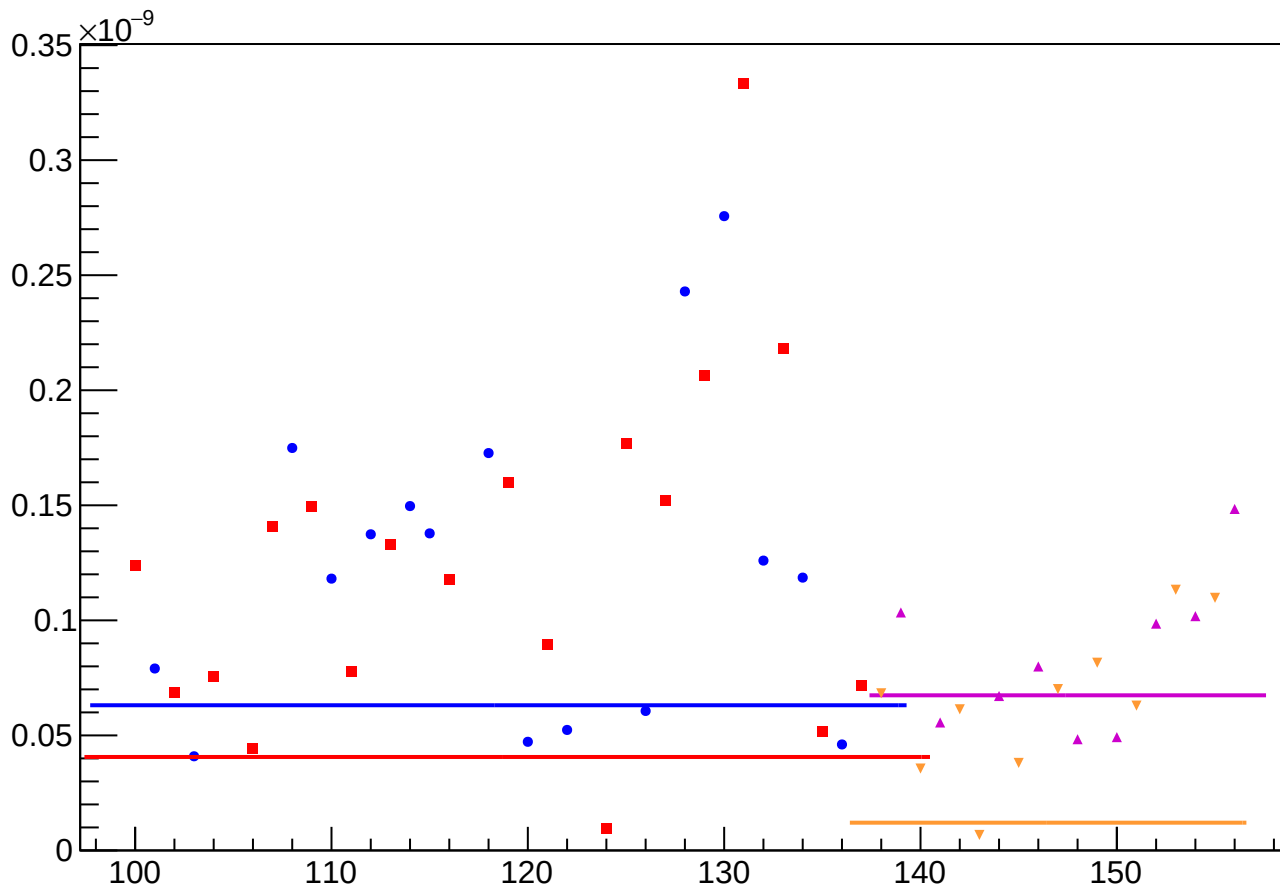
Right: -0.000 ± 0.000 χ^2/NDF : 28.8/34

In: -0.000 ± 0.000 χ^2/NDF : 16.5/24

Out: -0.000 ± 0.000 χ^2/NDF : 26.7/28

All: -0.000 ± 0.000 χ^2/NDF : 43.9/53

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 : 3813118.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3172346.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 632278.7/8

Left: 0.000+/-0.000 χ^2/NDF : 7847979.1/18

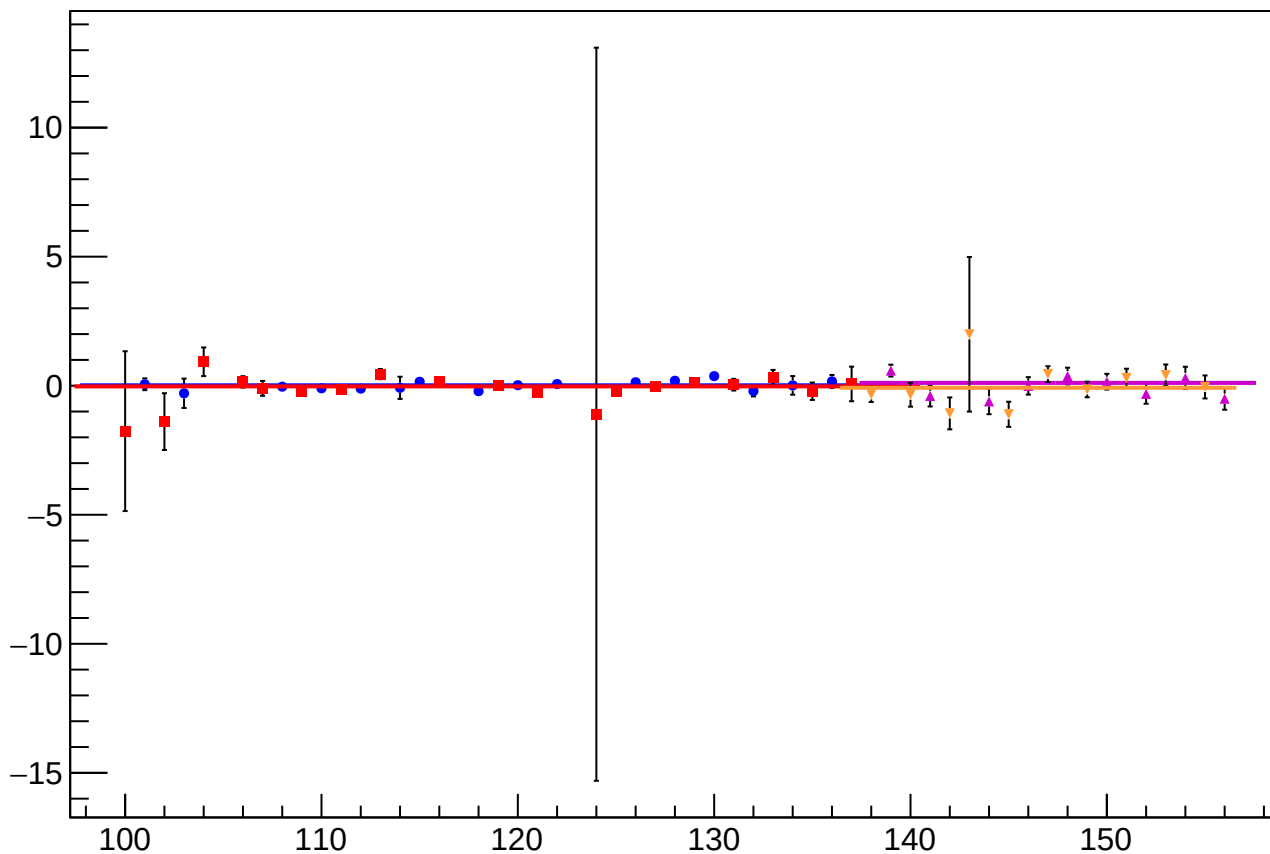
Right: 0.000+/-0.000 χ^2/NDF : 4914964.6/34

In: 0.000+/-0.000 χ^2/NDF : 2074574.4/24

Out: 0.000+/-0.000 χ^2/NDF : 8129792.6/28

All: 0.000+/-0.000 χ^2/NDF : 15124653.3/53

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: -0.080 ± 0.126 χ^2/NDF : 14.1/9

Right Out: -0.026 ± 0.047 χ^2/NDF : 22.1/18

Left In: 0.109 ± 0.115 χ^2/NDF : 12.2/8

Left: 0.023 ± 0.085 χ^2/NDF : 27.6/18

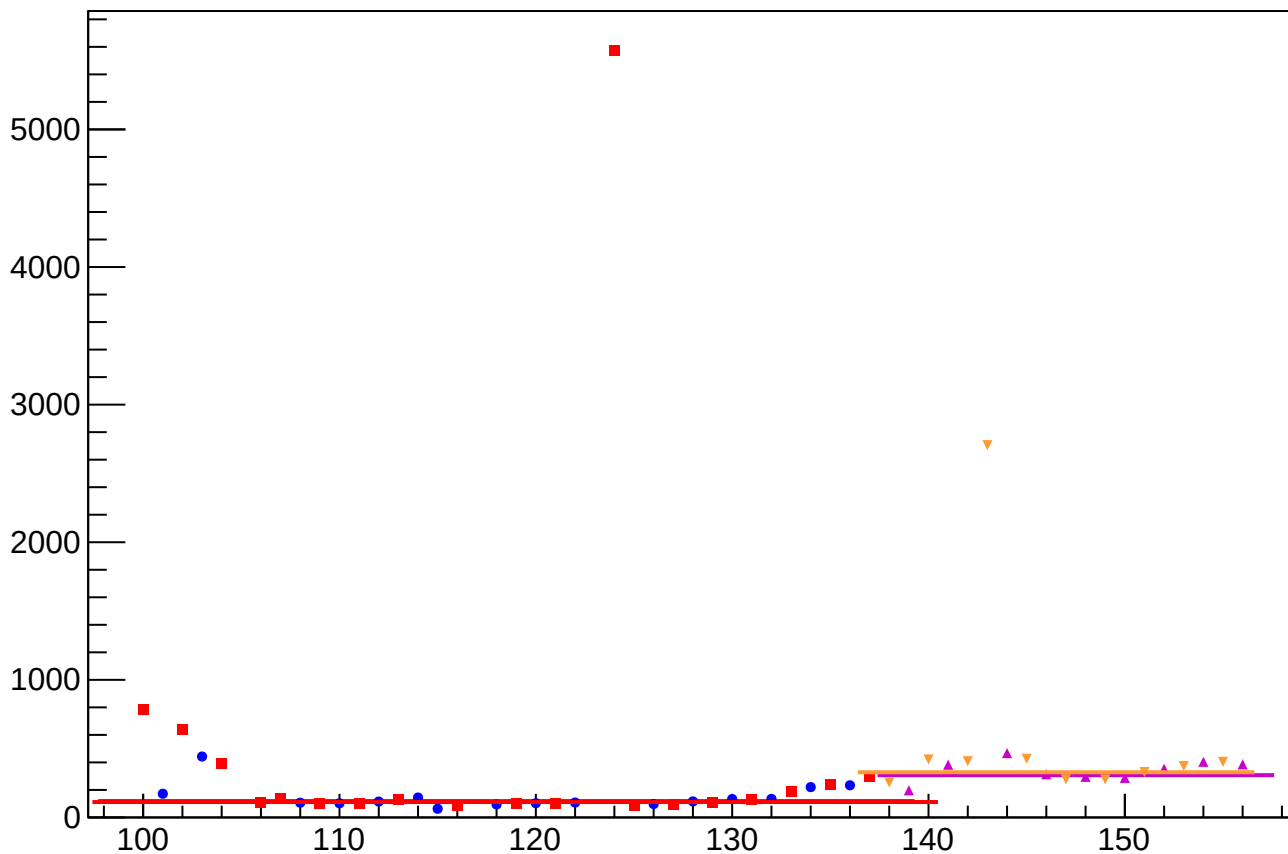
Right: -0.006 ± 0.033 χ^2/NDF : 34.3/34

In: 0.029 ± 0.044 χ^2/NDF : 24.6/24

Out: -0.032 ± 0.044 χ^2/NDF : 36.4/28

All: -0.002 ± 0.031 χ^2/NDF : 62.0/53

asym_atr1l2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722401.0/15

Left Out: 328.474 $\pm$ 0.089 χ^2 /NDF:1778539.0/9

Right Out: 112.124 $\pm$ 0.033 χ^2 /NDF: 2186364.8/18

Left In: 307.501 $\pm$ 0.081 χ^2 /NDF:952122.8/8

Left: 317.039 $\pm$ 0.060 χ^2 /NDF: 2761006.8/18

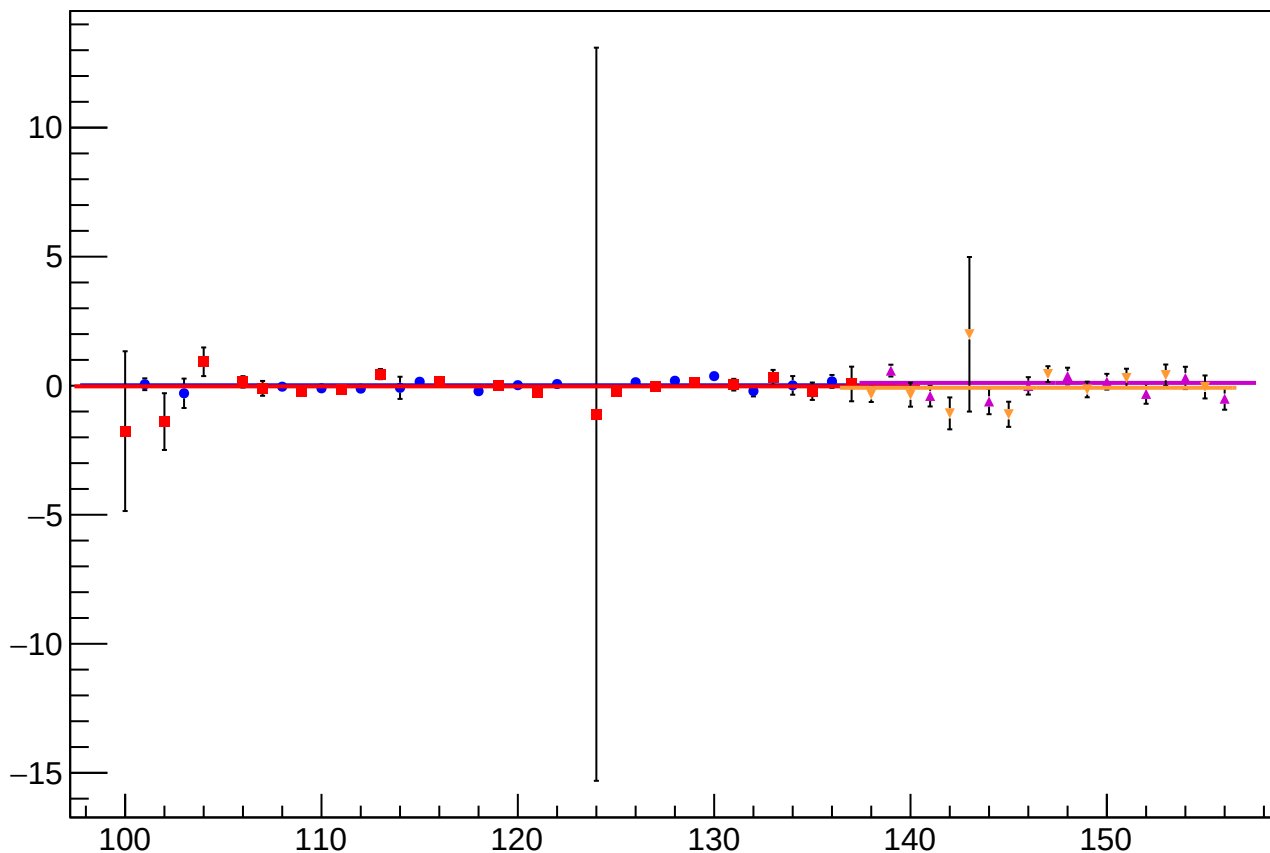
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922369.6/34

In: 145.785 $\pm$ 0.031 χ^2 /NDF:7331980.0/24

Out: 138.496 $\pm$ 0.031 χ^2 /NDF:9165493.0/28

All: 142.115 $\pm$ 0.022 χ^2 /NDF: 16524852.4/53

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: -0.080 ± 0.126 χ^2/NDF : 14.1/9

Right Out: -0.026 ± 0.047 χ^2/NDF : 22.1/18

Left In: 0.109 ± 0.115 χ^2/NDF : 12.2/8

Left: 0.023 ± 0.085 χ^2/NDF : 27.6/18

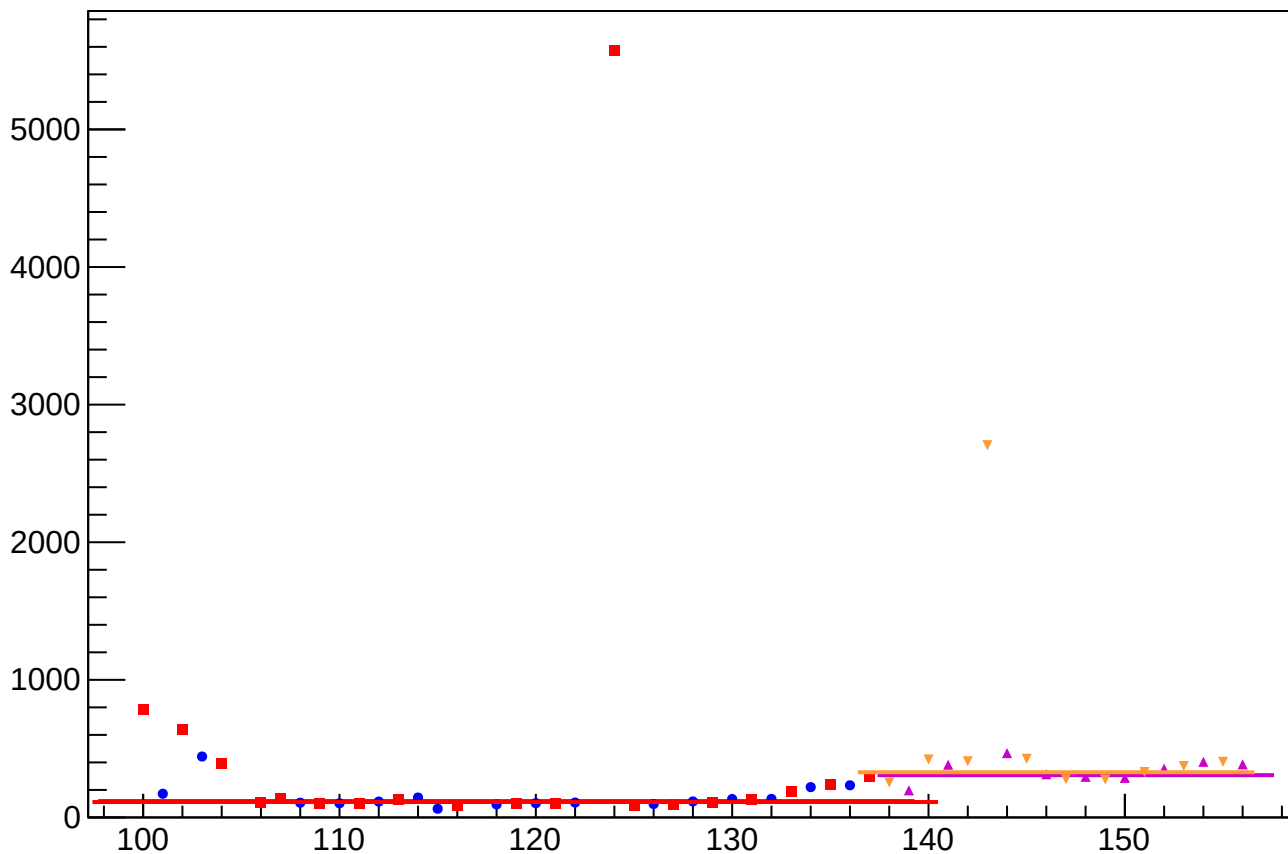
Right: -0.006 ± 0.033 χ^2/NDF : 34.3/34

In: 0.029 ± 0.044 χ^2/NDF : 24.6/24

Out: -0.032 ± 0.044 χ^2/NDF : 36.4/28

All: -0.002 ± 0.031 χ^2/NDF : 62.0/53

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649+/-0.034 χ^2/NDF : 1722401.0/15

Left Out: 328.474+/-0.089 χ^2/NDF : 1778539.0/9

Right Out: 112.124+/-0.033 χ^2/NDF : 2186364.8/18

Left In: 307.501+/-0.081 χ^2/NDF : 952122.8/8

Left: 317.039+/-0.060 χ^2/NDF : 2761006.8/18

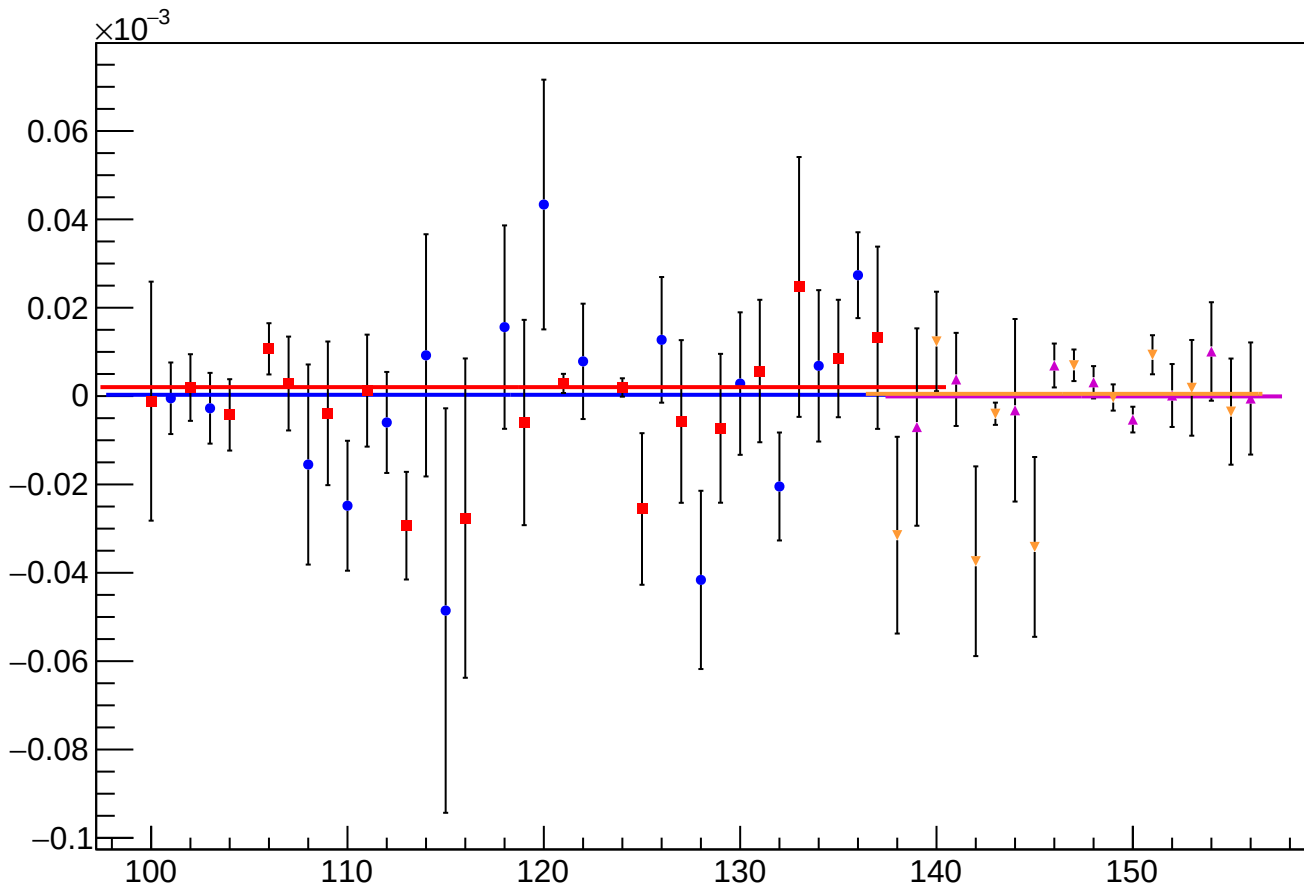
Right: 114.826+/-0.024 χ^2/NDF : 3922369.6/34

In: 145.785+/-0.031 χ^2/NDF : 7331980.0/24

Out: 138.496+/-0.031 χ^2/NDF : 9165493.0/28

All: 142.115+/-0.022 χ^2/NDF : 16524852.4/53

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 : 19.9/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 14.8/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.1/8

Left: 0.000 ± 0.000 χ^2/NDF : 27.0/18

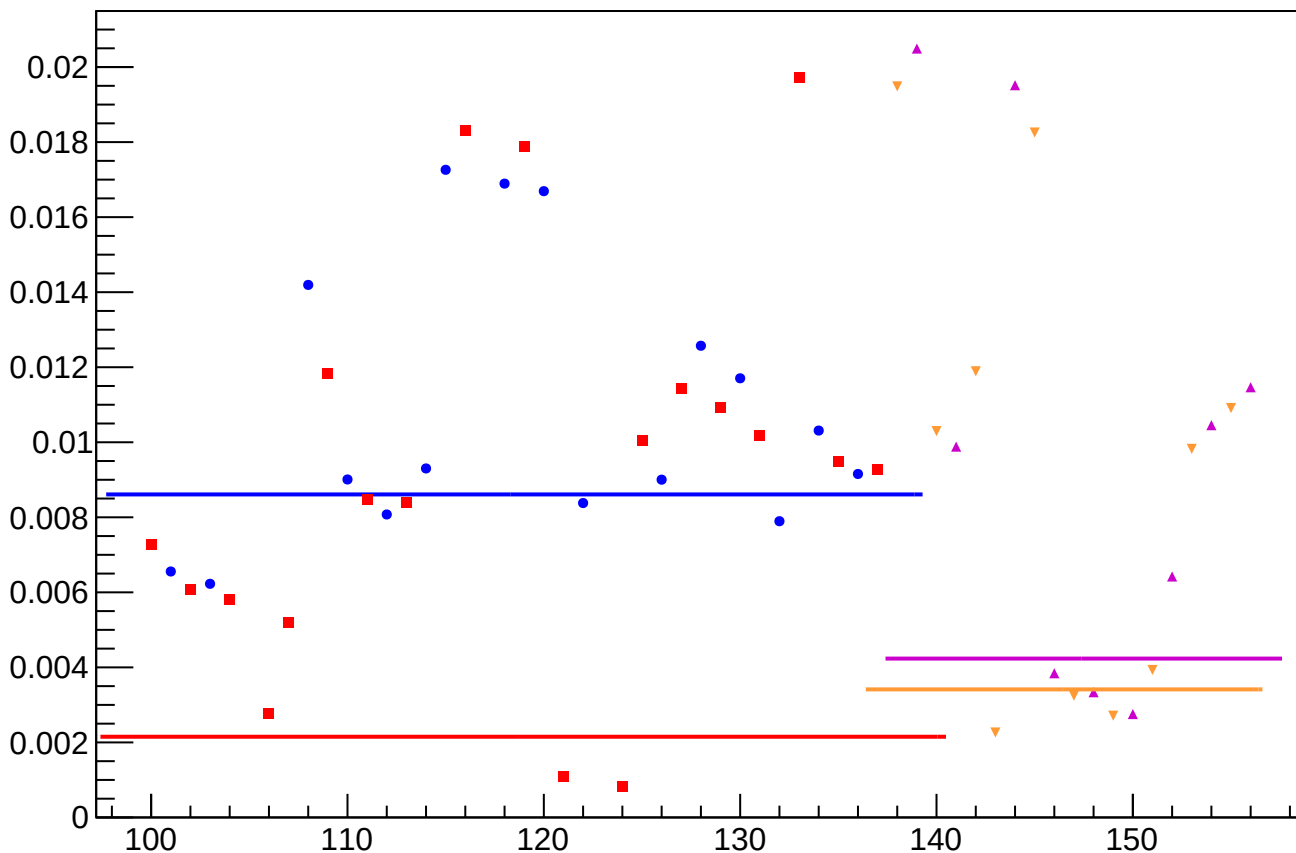
Right: 0.000 ± 0.000 χ^2/NDF : 39.1/34

In: 0.000 ± 0.000 χ^2/NDF : 31.2/24

Out: 0.000 ± 0.000 χ^2/NDF : 35.2/28

All: 0.000 ± 0.000 χ^2/NDF : 66.9/53

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1114251.2/15

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:5204888.0/9

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 9086978.1/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:4838070.6/8

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 10272115.3/18

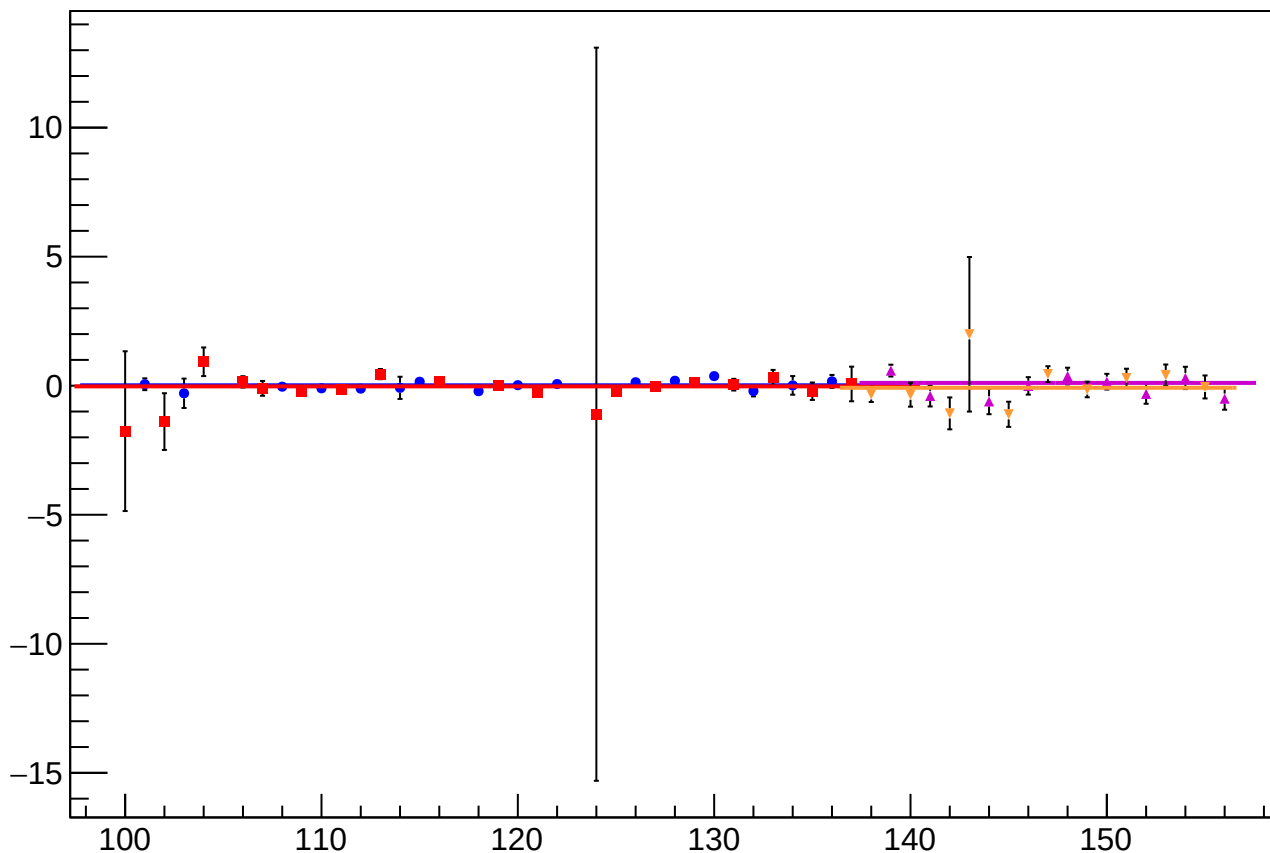
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 16533209.6/34

In: 0.005 $\pm$ 0.000 χ^2 /NDF:8513370.9/24

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:15066579.4/28

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 27146108.6/53

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: -0.080 ± 0.126 χ^2/NDF : 14.1/9

Right Out: -0.026 ± 0.047 χ^2/NDF : 22.1/18

Left In: 0.109 ± 0.115 χ^2/NDF : 12.2/8

Left: 0.023 ± 0.085 χ^2/NDF : 27.6/18

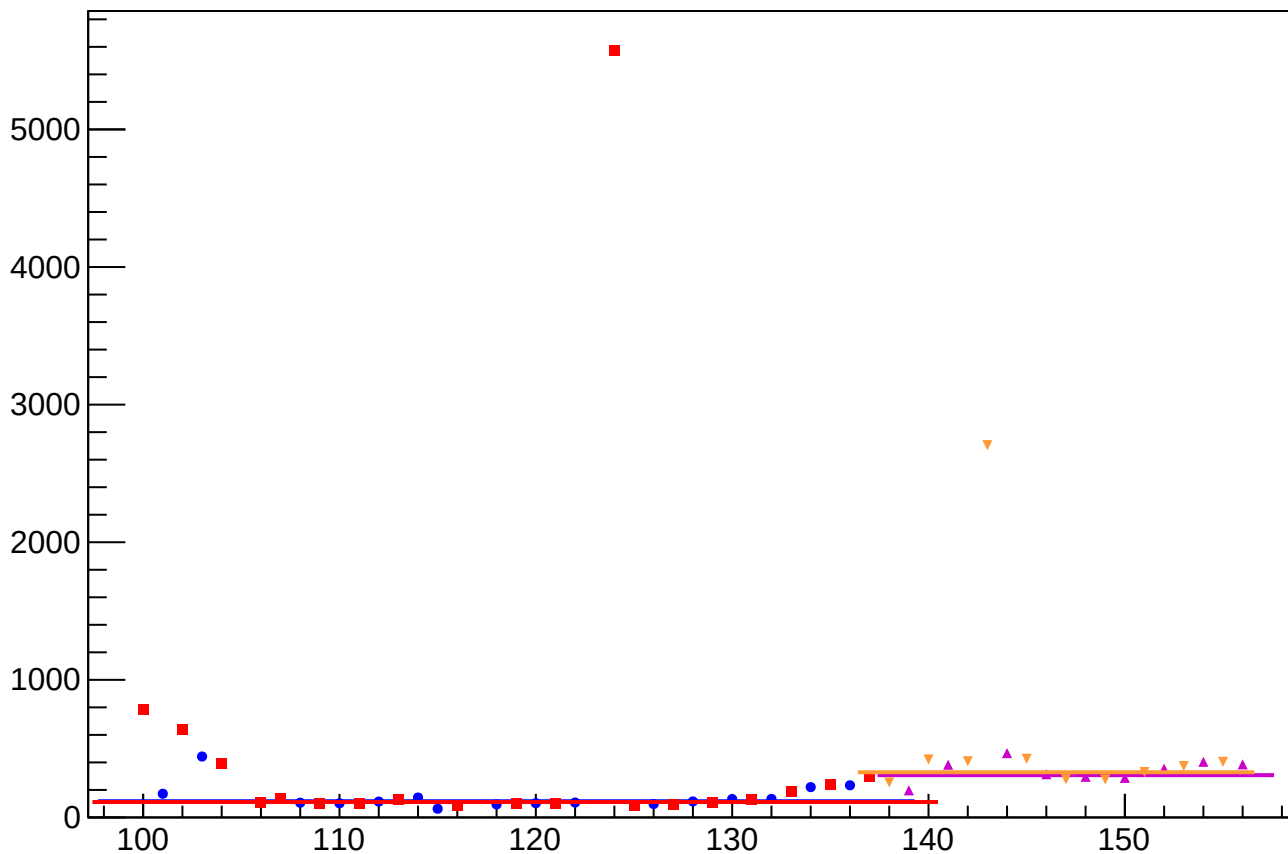
Right: -0.006 ± 0.033 χ^2/NDF : 34.3/34

In: 0.029 ± 0.044 χ^2/NDF : 24.6/24

Out: -0.032 ± 0.044 χ^2/NDF : 36.4/28

All: -0.002 ± 0.031 χ^2/NDF : 62.0/53

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: 328.477 $\pm$ 0.089 χ^2 /NDF:1778572.3/9

Right Out: 112.126 $\pm$ 0.033 χ^2 /NDF: 2186296.2/18

Left In: 307.505 $\pm$ 0.081 χ^2 /NDF:952120.2/8

Left: 317.042 $\pm$ 0.060 χ^2 /NDF: 2761033.8/18

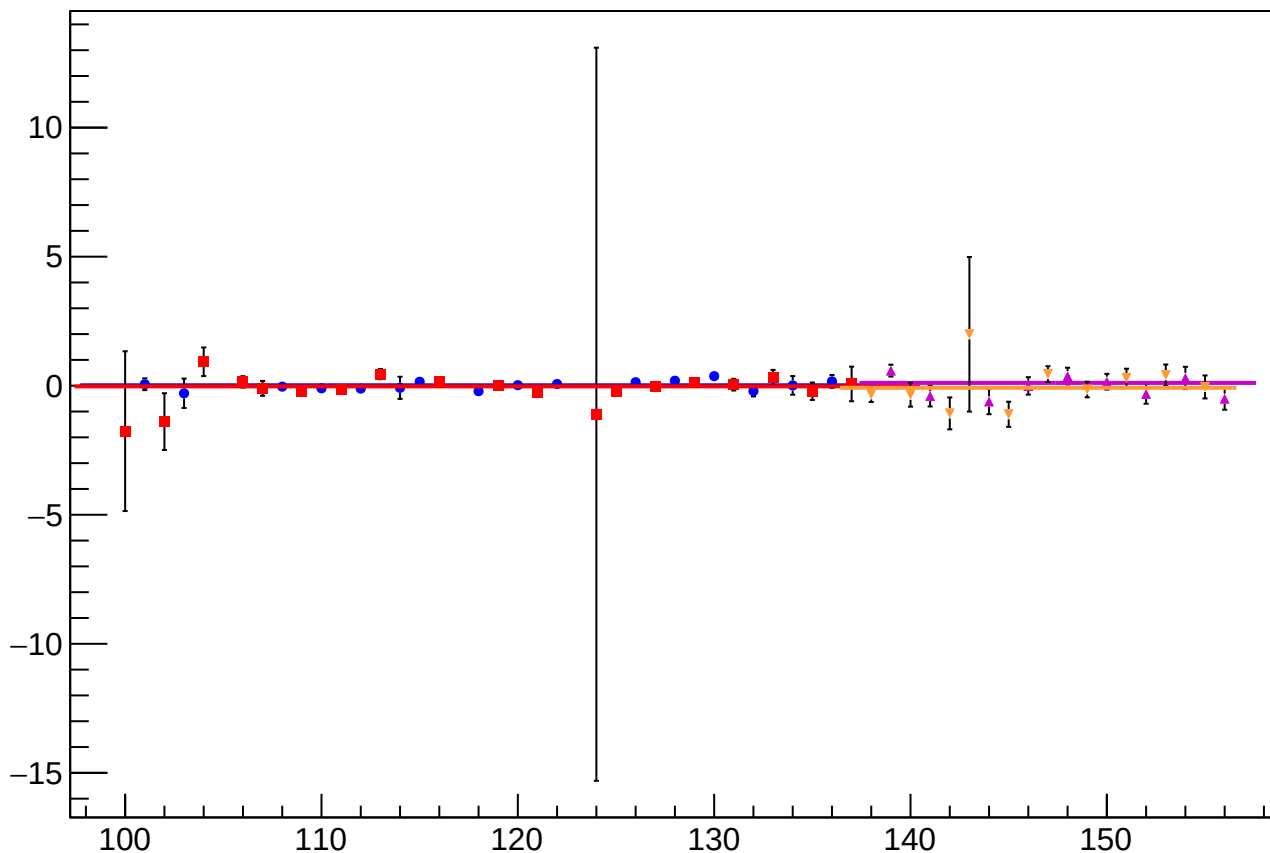
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922259.7/34

In: 145.785 $\pm$ 0.031 χ^2 /NDF:7332032.5/24

Out: 138.498 $\pm$ 0.031 χ^2 /NDF:9165414.4/28

All: 142.116 $\pm$ 0.022 χ^2 /NDF: 16524812.0/53

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.048 $\chi^2/\text{NDF}: 11.8/15$

Left Out: -0.080 ± 0.126 $\chi^2/\text{NDF}: 14.1/9$

Right Out: -0.026 ± 0.047 $\chi^2/\text{NDF}: 22.1/18$

Left In: 0.109 ± 0.115 $\chi^2/\text{NDF}: 12.2/8$

Left: 0.023 ± 0.085 $\chi^2/\text{NDF}: 27.6/18$

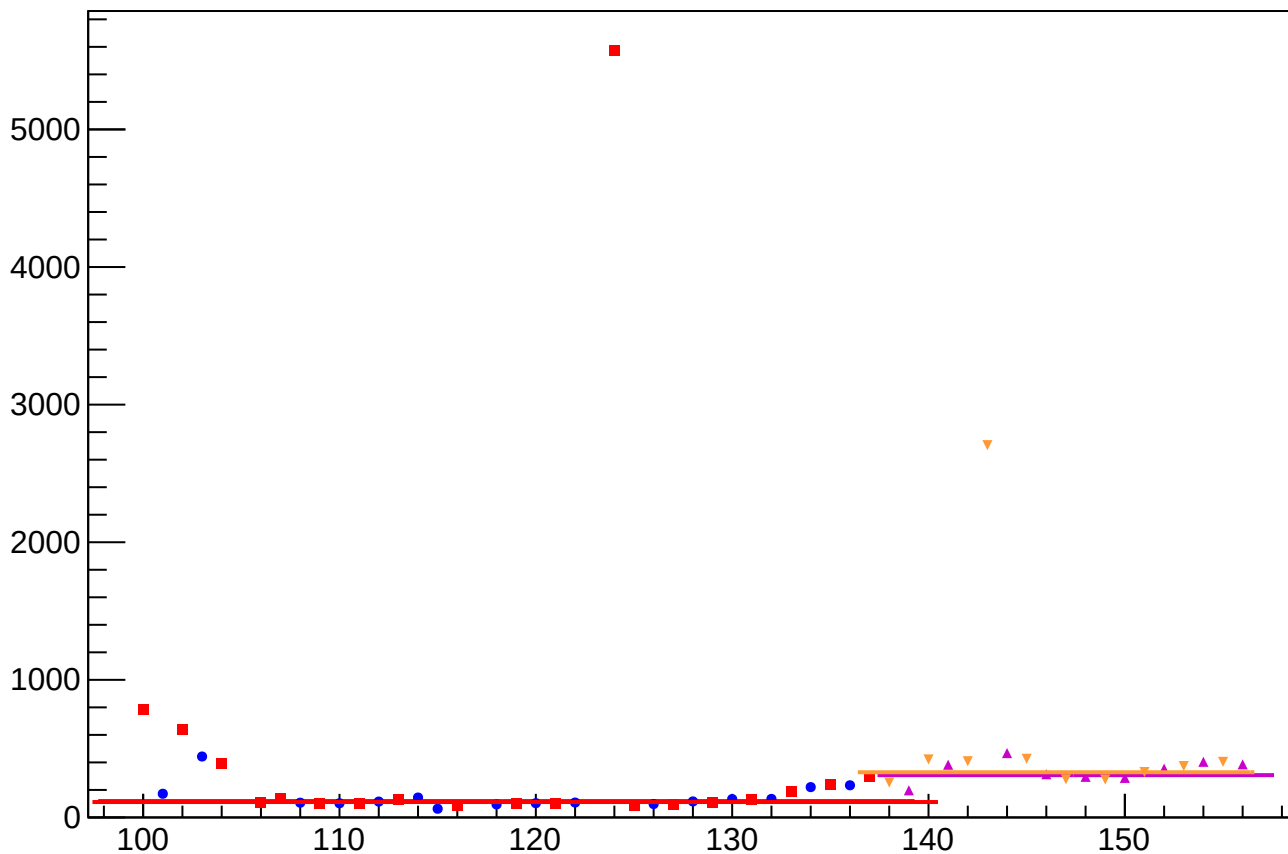
Right: -0.006 ± 0.033 $\chi^2/\text{NDF}: 34.3/34$

In: 0.029 ± 0.044 $\chi^2/\text{NDF}: 24.6/24$

Out: -0.032 ± 0.044 $\chi^2/\text{NDF}: 36.4/28$

All: -0.002 ± 0.031 $\chi^2/\text{NDF}: 62.0/53$

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722367.8/15

Left Out: 328.477 $\pm$ 0.089 χ^2 /NDF:1778572.3/9

Right Out: 112.126 $\pm$ 0.033 χ^2 /NDF: 2186296.2/18

Left In: 307.505 $\pm$ 0.081 χ^2 /NDF:952120.2/8

Left: 317.042 $\pm$ 0.060 χ^2 /NDF: 2761033.8/18

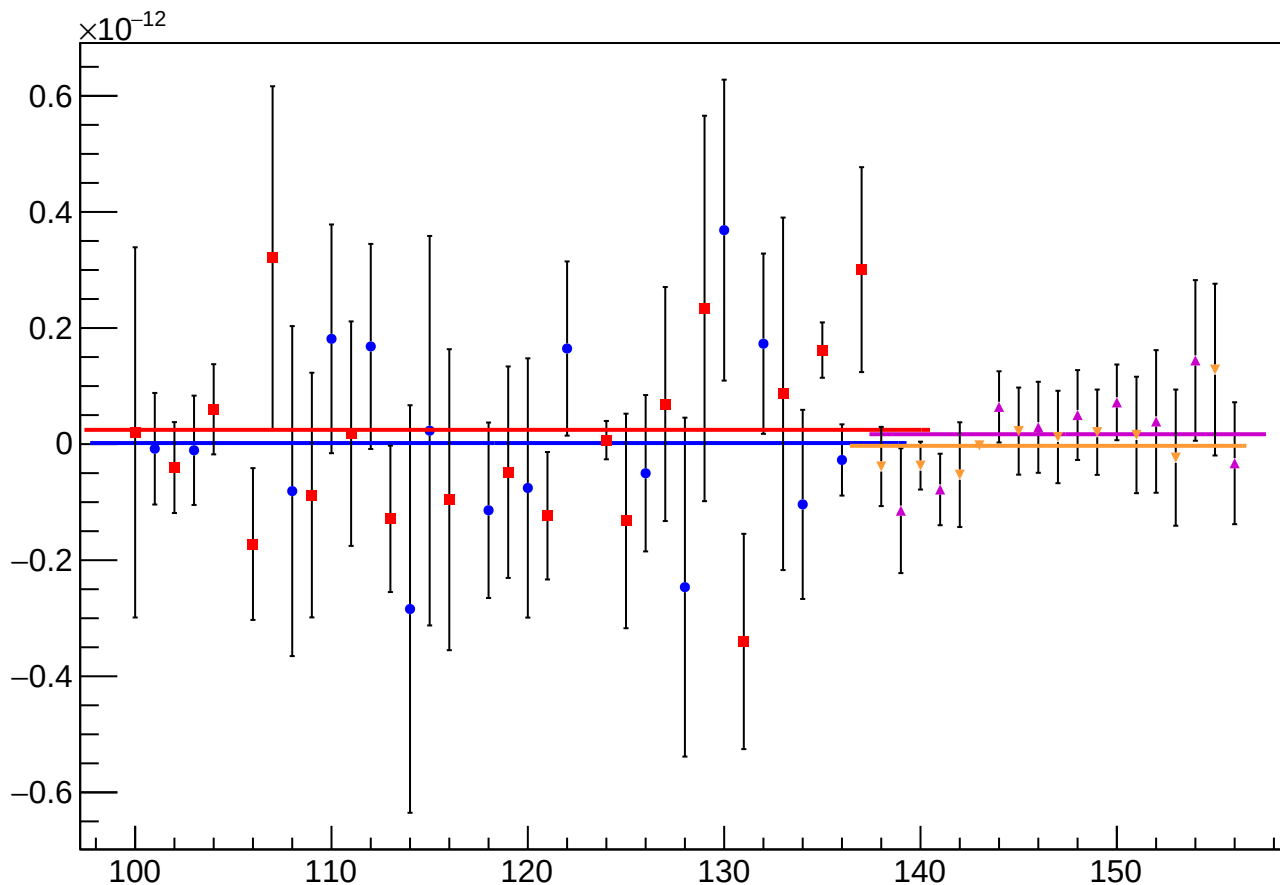
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922259.7/34

In: 145.785 $\pm$ 0.031 χ^2 /NDF:7332032.5/24

Out: 138.498 $\pm$ 0.031 χ^2 /NDF:9165414.4/28

All: 142.116 $\pm$ 0.022 χ^2 /NDF: 16524812.0/53

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 9.1/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 2.4/9$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 24.2/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6.5/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 9.4/18$

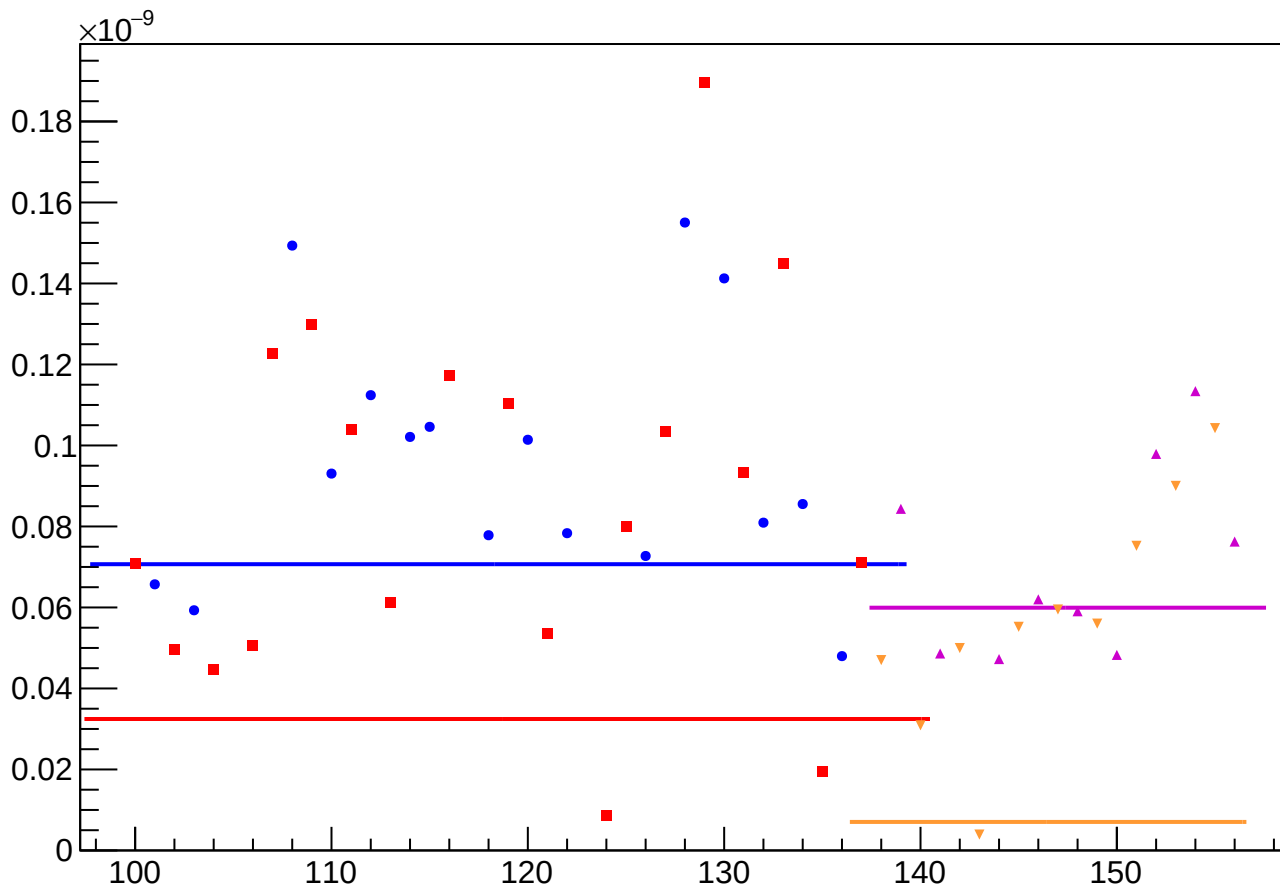
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 33.7/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 15.7/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 28.1/28$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 44.1/53$

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 : 7619060.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4449161.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 859728.7/8

Left: 0.000+/-0.000 χ^2/NDF : 15838131.6/18

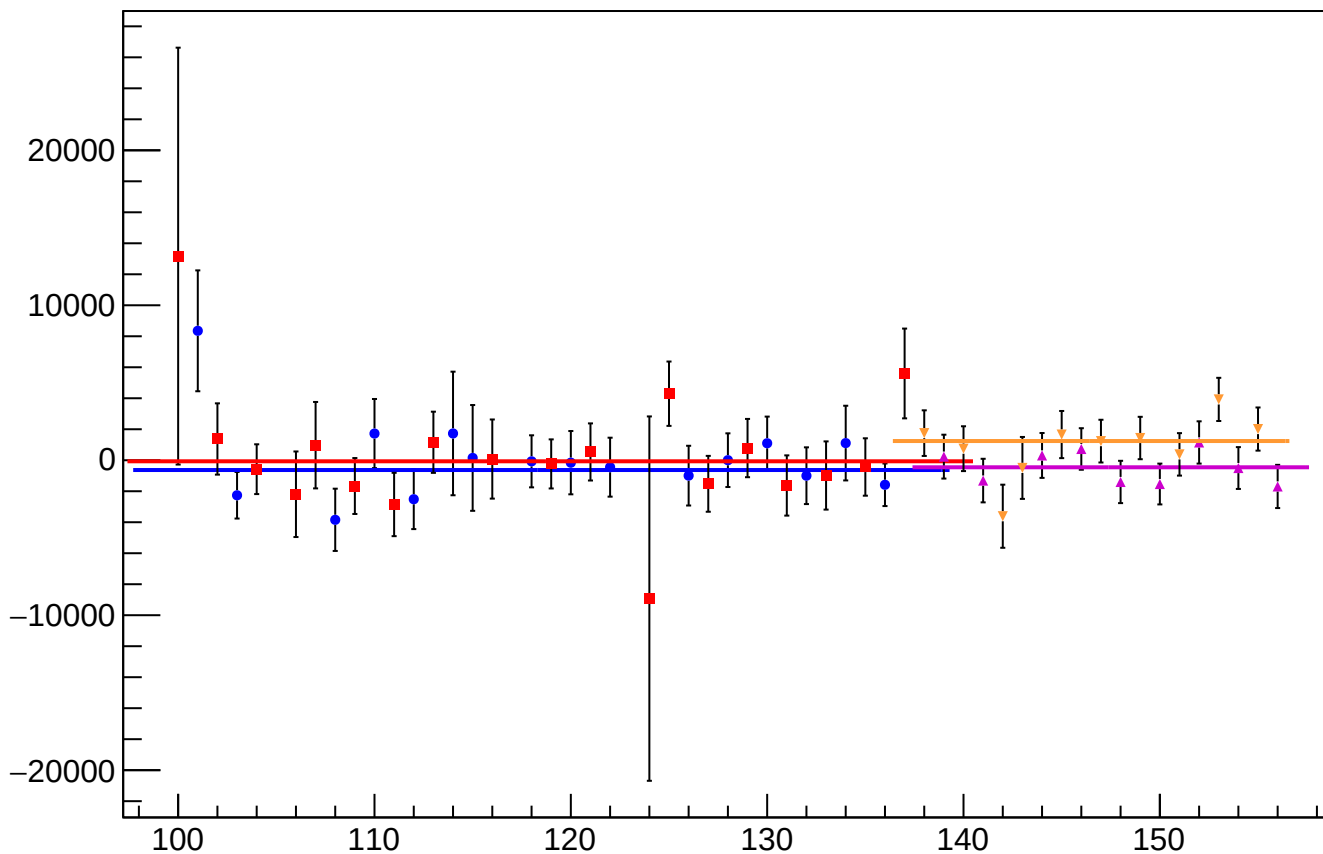
Right: 0.000+/-0.000 χ^2/NDF : 7239318.8/34

In: 0.000+/-0.000 χ^2/NDF : 2004516.7/24

Out: 0.000+/-0.000 χ^2/NDF : 14608701.8/28

All: 0.000+/-0.000 χ^2/NDF : 29034503.6/53

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.041 $\pm$ 488.663 χ^2 /NDF: 13.9/15

Left Out: 1239.494 $\pm$ 472.044 χ^2 /NDF: 11.2/9

Right Out: -67.642 $\pm$ 487.761 χ^2 /NDF: 15.9/18

Left In: -454.527 $\pm$ 458.666 χ^2 /NDF: 5.0/8

Left: 368.137 $\pm$ 328.954 χ^2 /NDF: 22.8/18

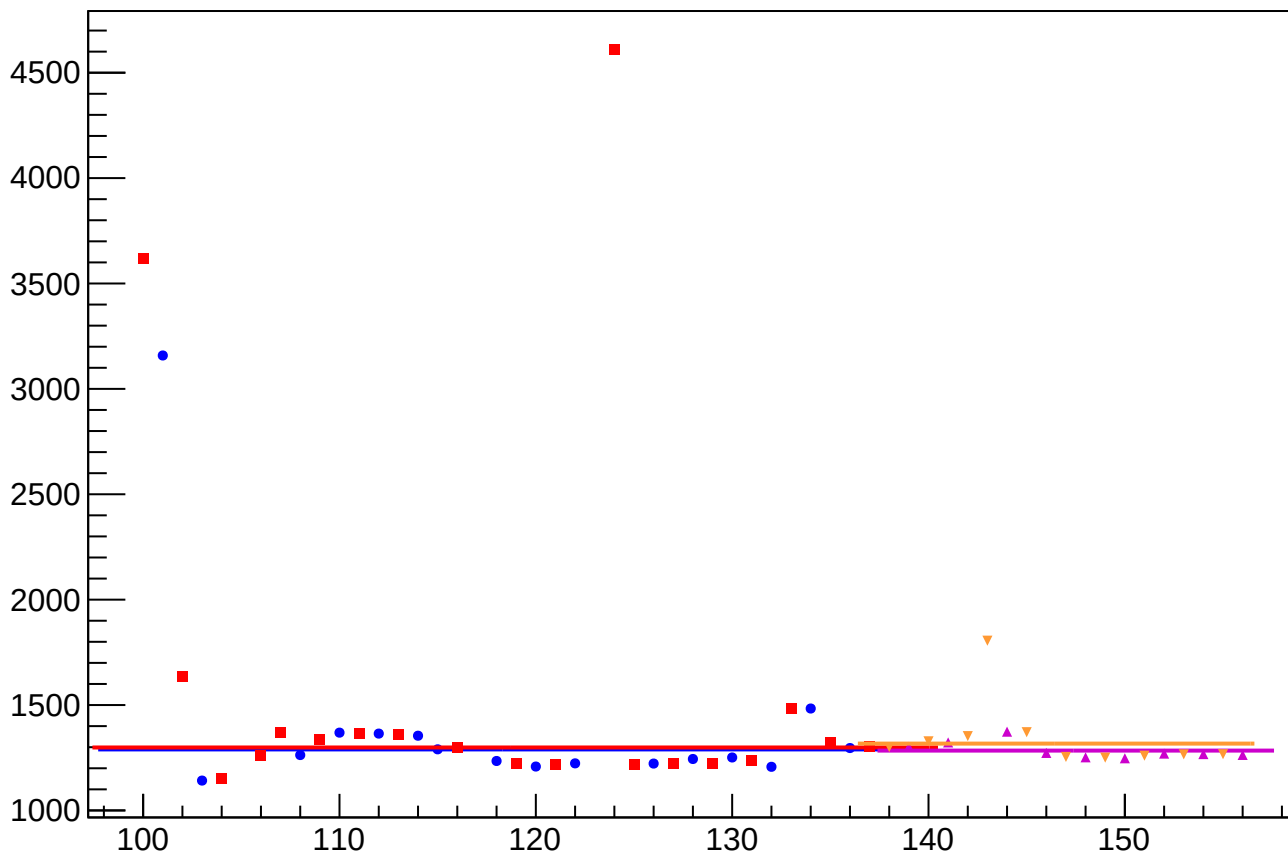
Right: -348.821 $\pm$ 345.217 χ^2 /NDF: 30.4/34

In: -537.200 $\pm$ 334.428 χ^2 /NDF: 19.0/24

Out: 607.324 $\pm$ 339.206 χ^2 /NDF: 30.8/28

All: 26.944 $\pm$ 238.147 χ^2 /NDF: 55.5/53

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514675.0/15

Left Out: 1317.078 $\pm$ 0.334 χ^2 /NDF: 140622.0/9

Right Out: 1298.656 $\pm$ 0.344 χ^2 /NDF: 319374.9/18

Left In: 1283.902 $\pm$ 0.324 χ^2 /NDF: 13252.2/8

Left: 1300.013 $\pm$ 0.233 χ^2 /NDF: 158955.5/18

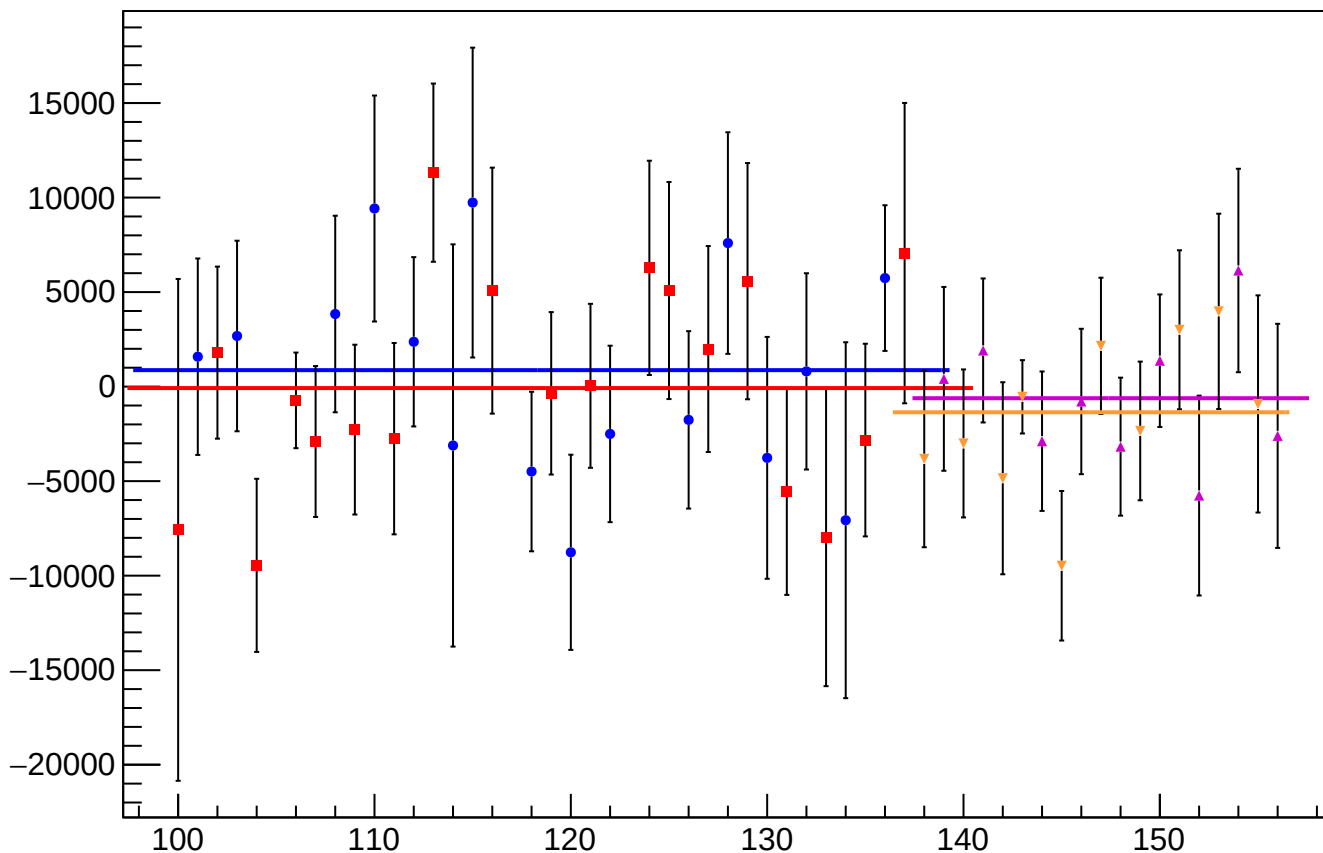
Right: 1294.081 $\pm$ 0.244 χ^2 /NDF: 834405.1/34

In: 1286.508 $\pm$ 0.236 χ^2 /NDF: 528065.1/24

Out: 1308.144 $\pm$ 0.240 χ^2 /NDF: 461474.0/28

All: 1297.186 $\pm$ 0.168 χ^2 /NDF: 993670.6/53

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: -1357.908 ± 1150.718 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -77.323 ± 1111.074 $\chi^2/\text{NDF}: 18.4/18$

Left In: -613.837 ± 1403.529 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.804 ± 889.868 $\chi^2/\text{NDF}: 13.0/18$

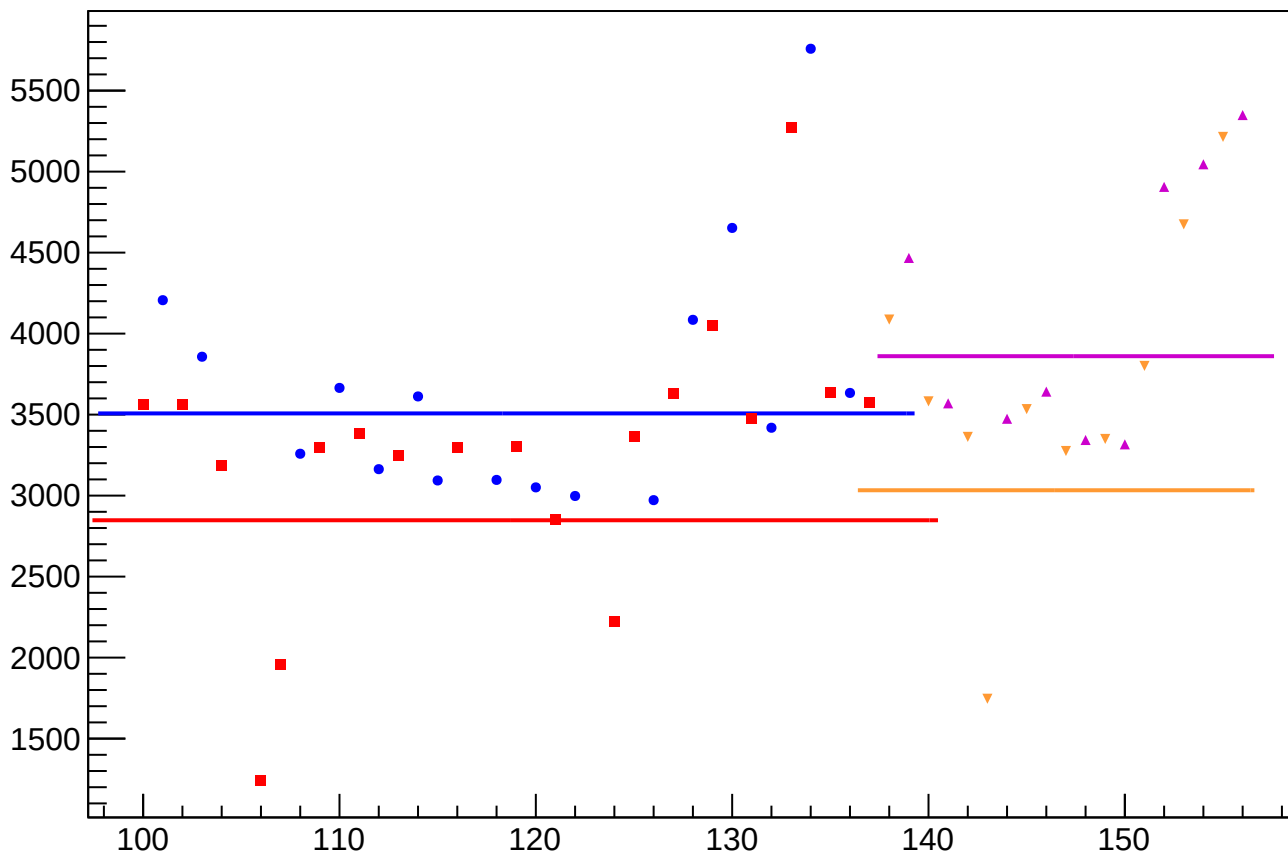
Right: 313.810 ± 851.438 $\chi^2/\text{NDF}: 32.7/34$

In: 170.753 ± 963.590 $\chi^2/\text{NDF}: 18.9/24$

Out: -695.177 ± 799.296 $\chi^2/\text{NDF}: 27.5/28$

All: -342.218 ± 615.195 $\chi^2/\text{NDF}: 46.9/53$

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: 3033.033+/-0.814 χ^2/NDF : 1643086.7/9

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 3860.635+/-0.992 χ^2/NDF : 460841.9/8

Left: 3365.715+/-0.629 χ^2/NDF : 2519785.1/18

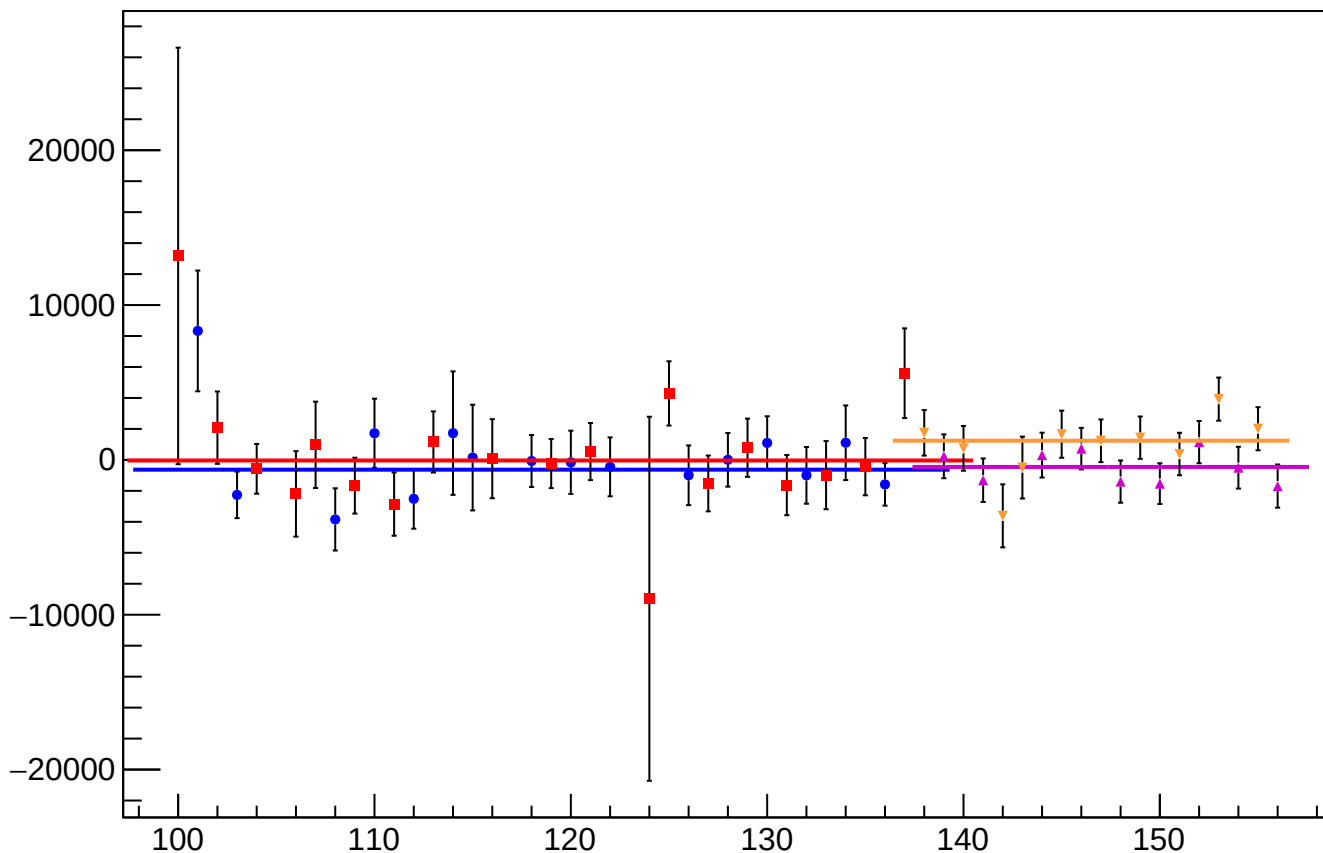
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3673.895+/-0.681 χ^2/NDF : 881792.8/24

Out: 2937.188+/-0.565 χ^2/NDF : 3169270.6/28

All: 3237.474+/-0.435 χ^2/NDF : 4743605.1/53

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

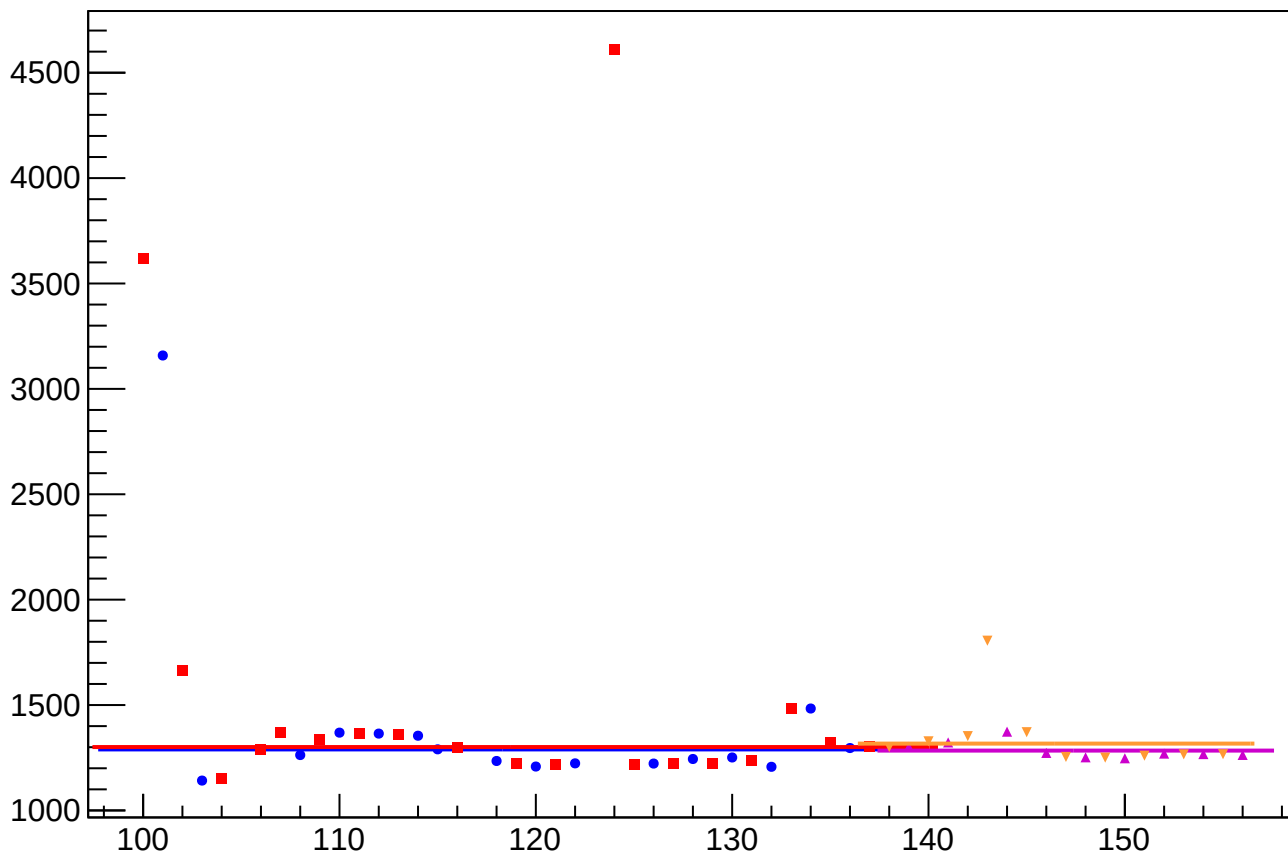
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

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: 1317.078+/-0.334 χ^2/NDF : 140622.0/9

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1283.902+/-0.324 χ^2/NDF : 13252.2/8

Left: 1300.013+/-0.233 χ^2/NDF : 158955.5/18

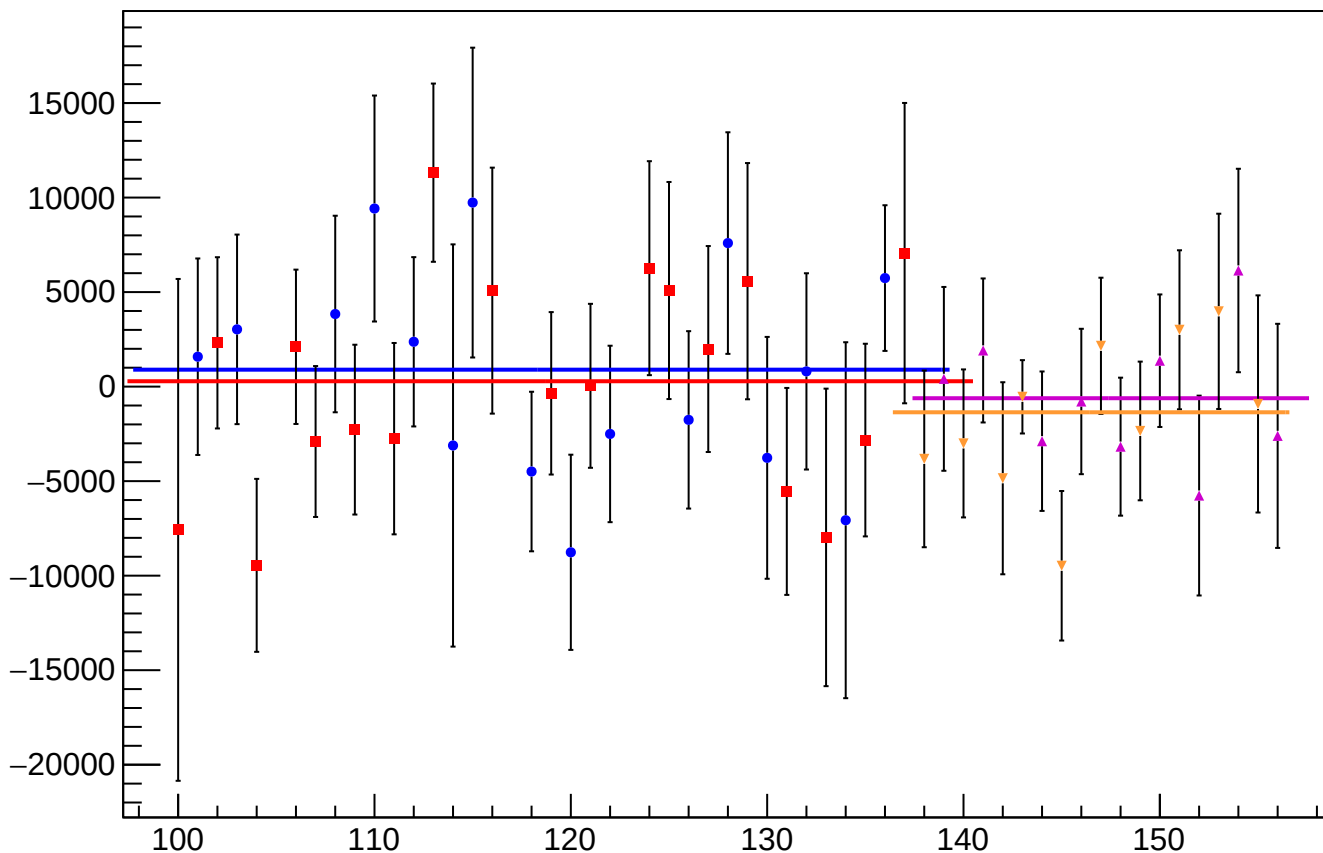
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1286.508+/-0.236 χ^2/NDF : 528066.5/24

Out: 1309.140+/-0.240 χ^2/NDF : 467697.7/28

All: 1297.670+/-0.168 χ^2/NDF : 1000281.5/53

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: -1357.832 ± 1150.716 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: -613.900 ± 1403.527 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.784 ± 889.866 $\chi^2/\text{NDF}: 13.0/18$

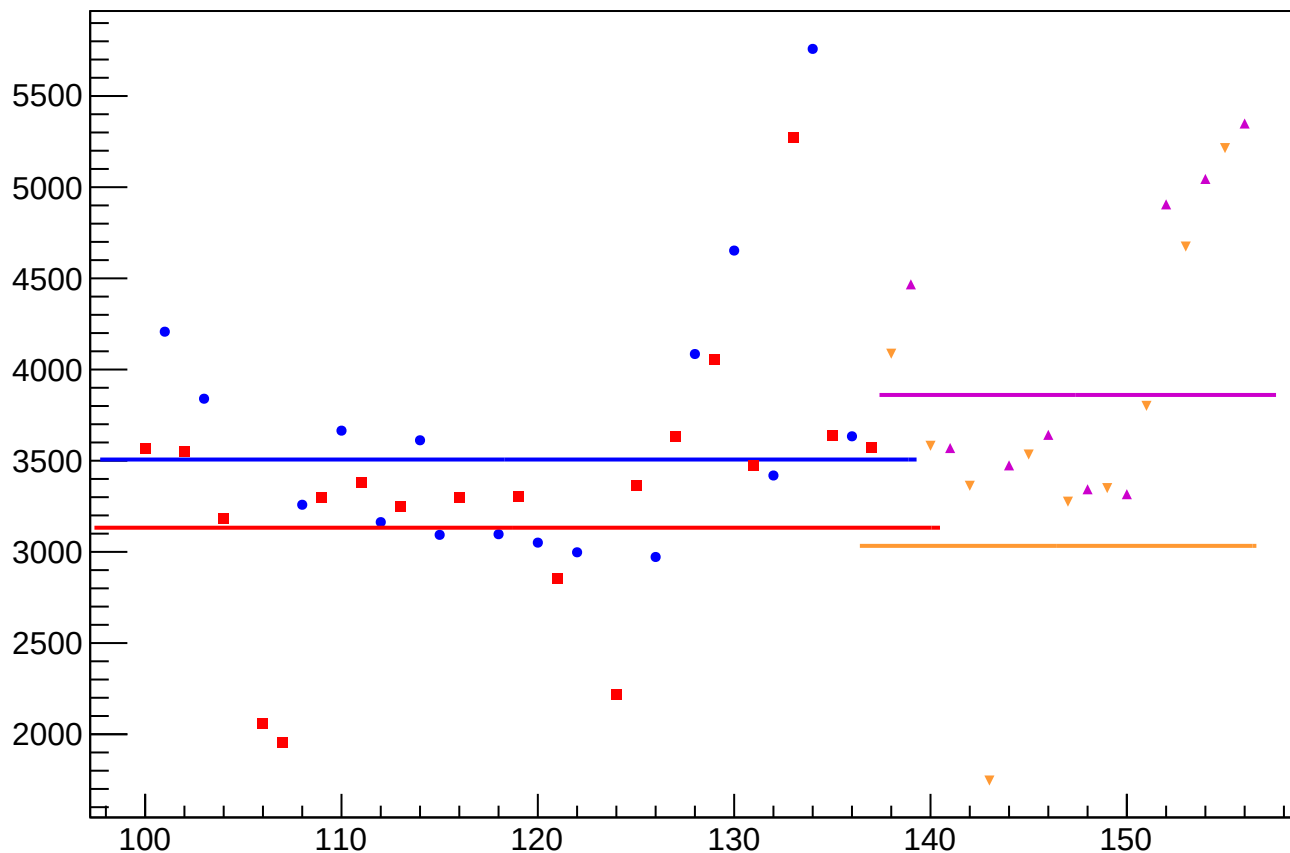
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 184.578 ± 963.414 $\chi^2/\text{NDF}: 19.0/24$

Out: -559.761 ± 824.914 $\chi^2/\text{NDF}: 28.1/28$

All: -244.894 ± 626.601 $\chi^2/\text{NDF}: 47.5/53$

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: 3033.023+/-0.814 χ^2/NDF : 1643113.7/9

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3860.630+/-0.992 χ^2/NDF : 460842.4/8

Left: 3365.707+/-0.629 χ^2/NDF : 2519818.7/18

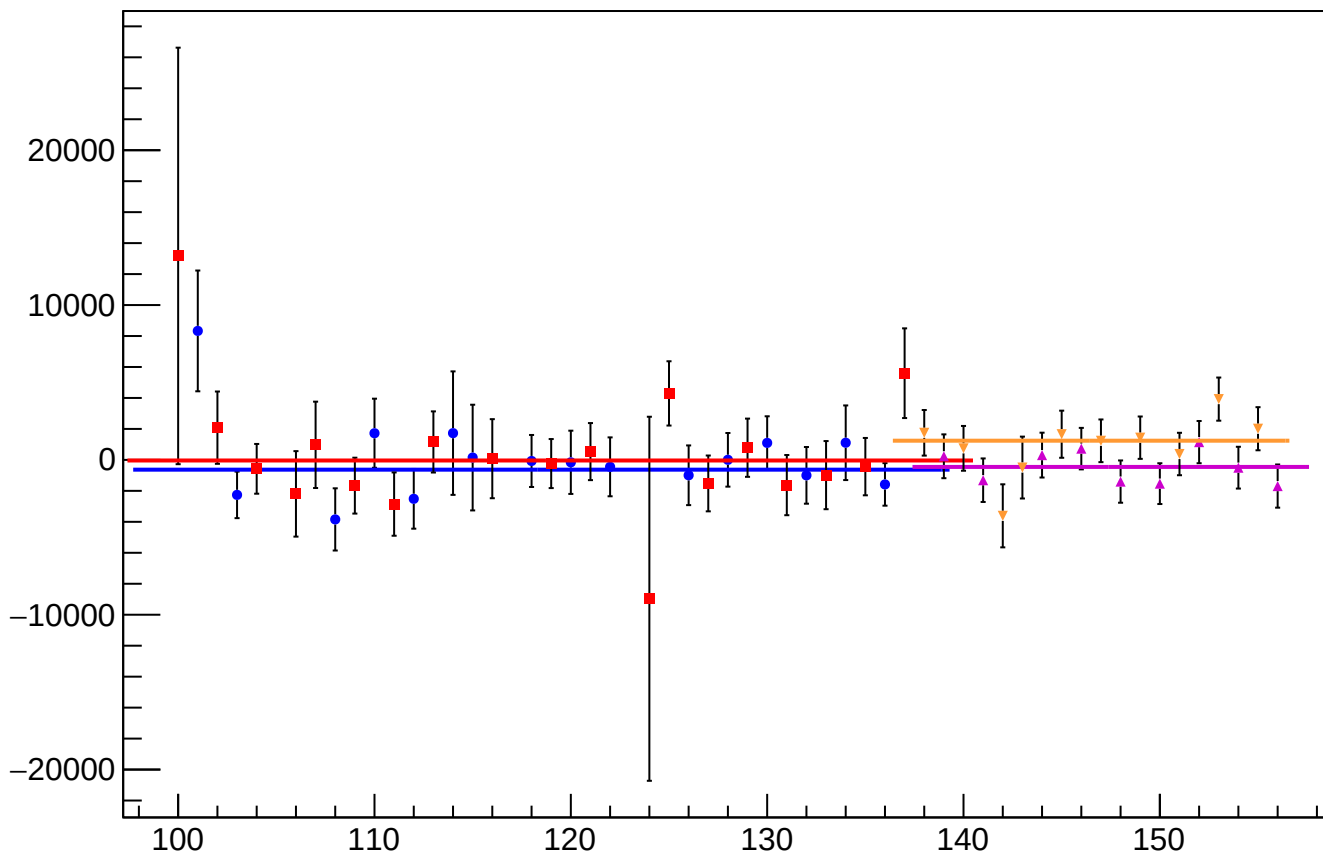
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3673.349+/-0.681 χ^2/NDF : 881418.4/24

Out: 3081.420+/-0.583 χ^2/NDF : 2300002.9/28

All: 3331.815+/-0.443 χ^2/NDF : 3617041.1/53

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

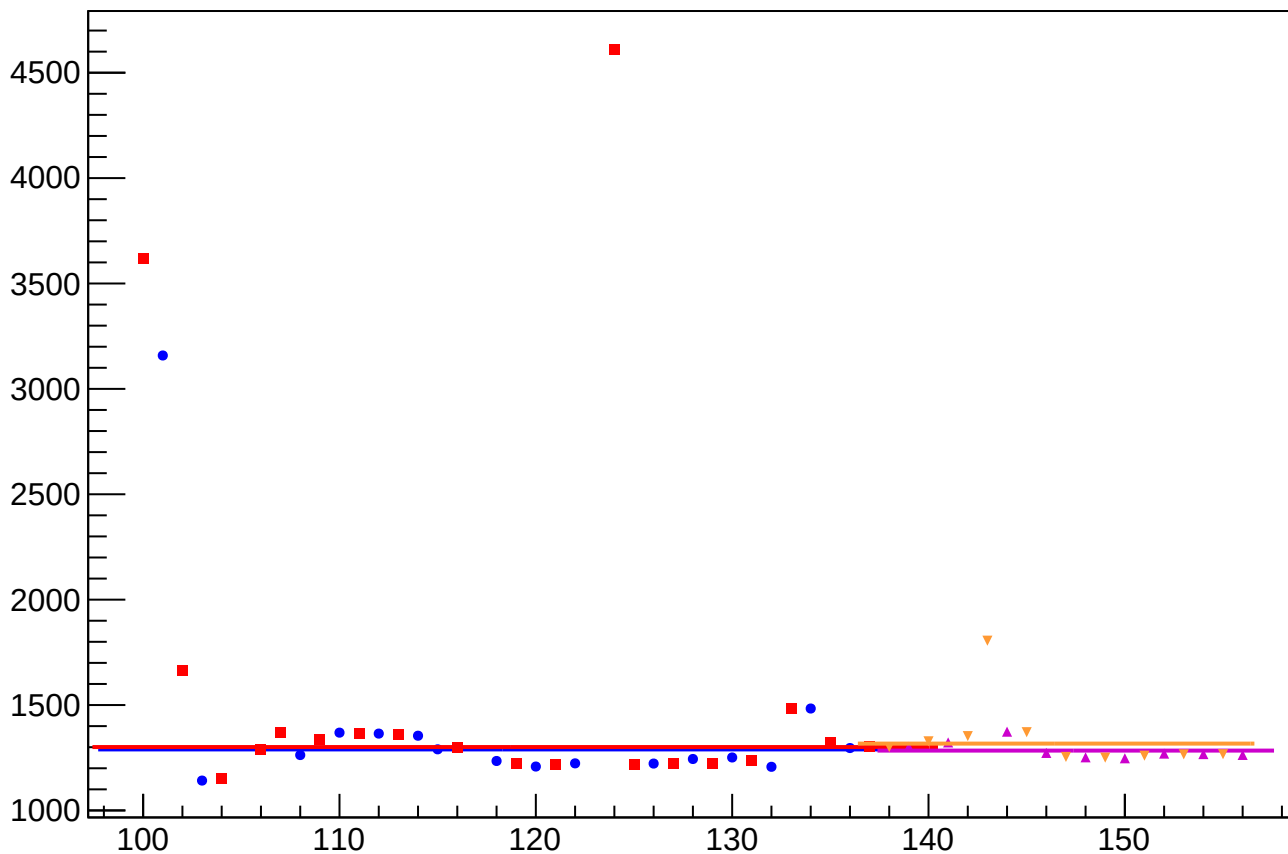
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

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: 1317.078+/-0.334 χ^2/NDF : 140622.0/9

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1283.902+/-0.324 χ^2/NDF : 13252.2/8

Left: 1300.013+/-0.233 χ^2/NDF : 158955.5/18

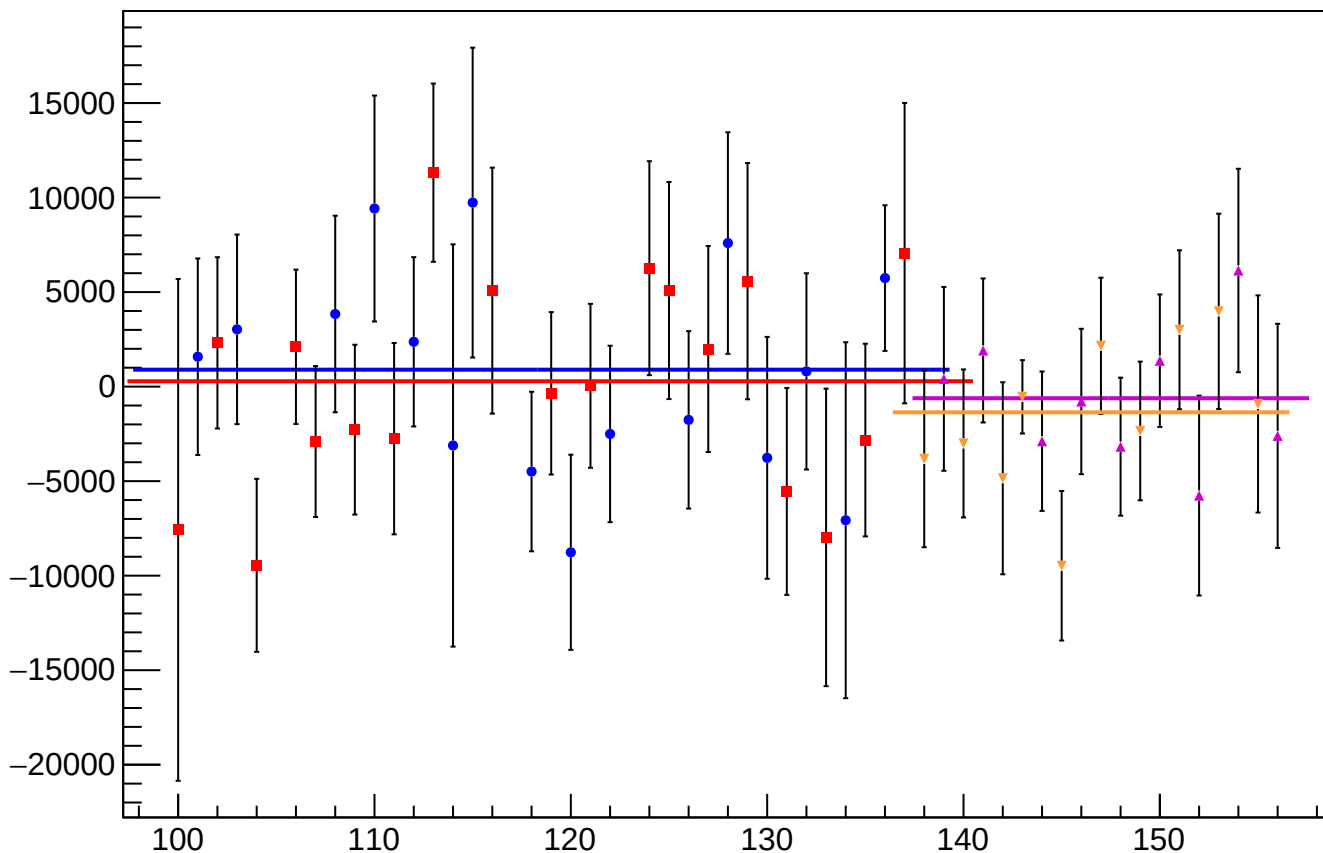
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1286.508+/-0.236 χ^2/NDF : 528066.5/24

Out: 1309.140+/-0.240 χ^2/NDF : 467697.7/28

All: 1297.670+/-0.168 χ^2/NDF : 1000281.5/53

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 ± 1324.823 χ^2/NDF : 14.1/15

Left Out: -1357.832 ± 1150.716 χ^2/NDF : 8.5/9

Right Out: 283.963 ± 1183.171 χ^2/NDF : 18.6/18

Left In: -613.900 ± 1403.527 χ^2/NDF : 4.3/8

Left: -1058.784 ± 889.866 χ^2/NDF : 13.0/18

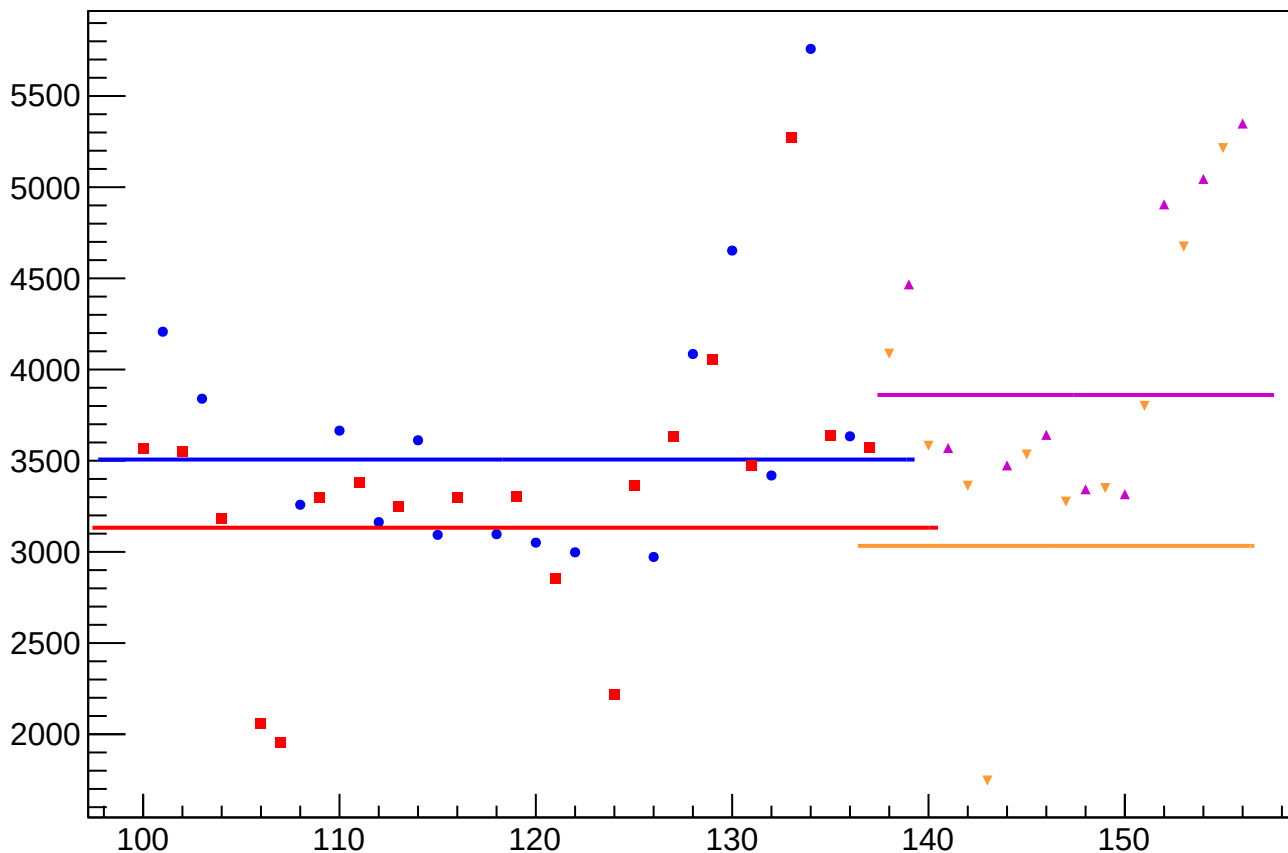
Right: 555.531 ± 882.475 χ^2/NDF : 32.8/34

In: 184.578 ± 963.414 χ^2/NDF : 19.0/24

Out: -559.761 ± 824.914 χ^2/NDF : 28.1/28

All: -244.894 ± 626.601 χ^2/NDF : 47.5/53

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3033.023+/-0.814 χ^2/NDF : 1643113.7/9

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3860.630+/-0.992 χ^2/NDF : 460842.4/8

Left: 3365.707+/-0.629 χ^2/NDF : 2519818.7/18

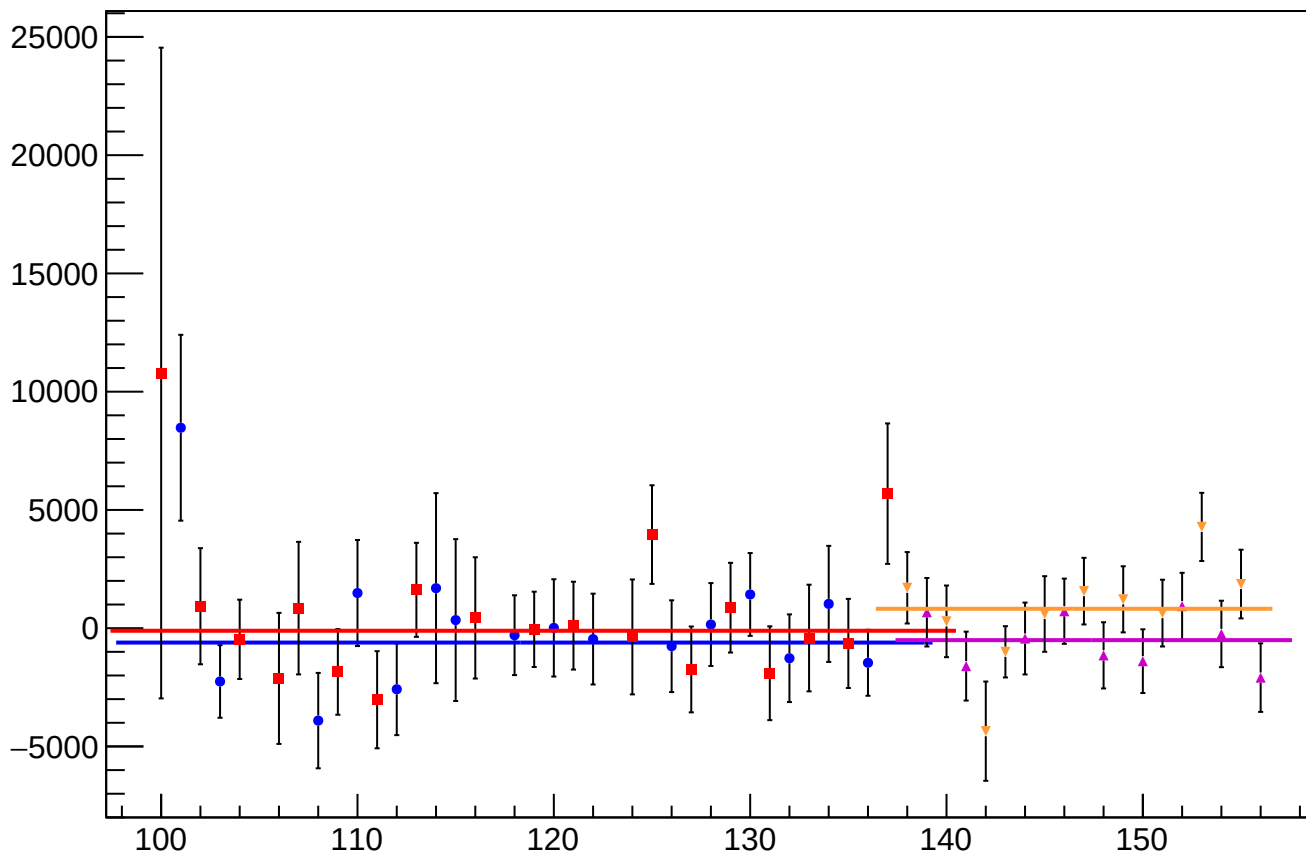
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3673.349+/-0.681 χ^2/NDF : 881418.4/24

Out: 3081.420+/-0.583 χ^2/NDF : 2300002.9/28

All: 3331.815+/-0.443 χ^2/NDF : 3617041.1/53

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: 820.470+/-455.608 χ^2/NDF :16.0/9

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -505.192+/-473.786 χ^2/NDF :4.9/8

Left: 183.559+/-328.402 χ^2/NDF : 25.1/18

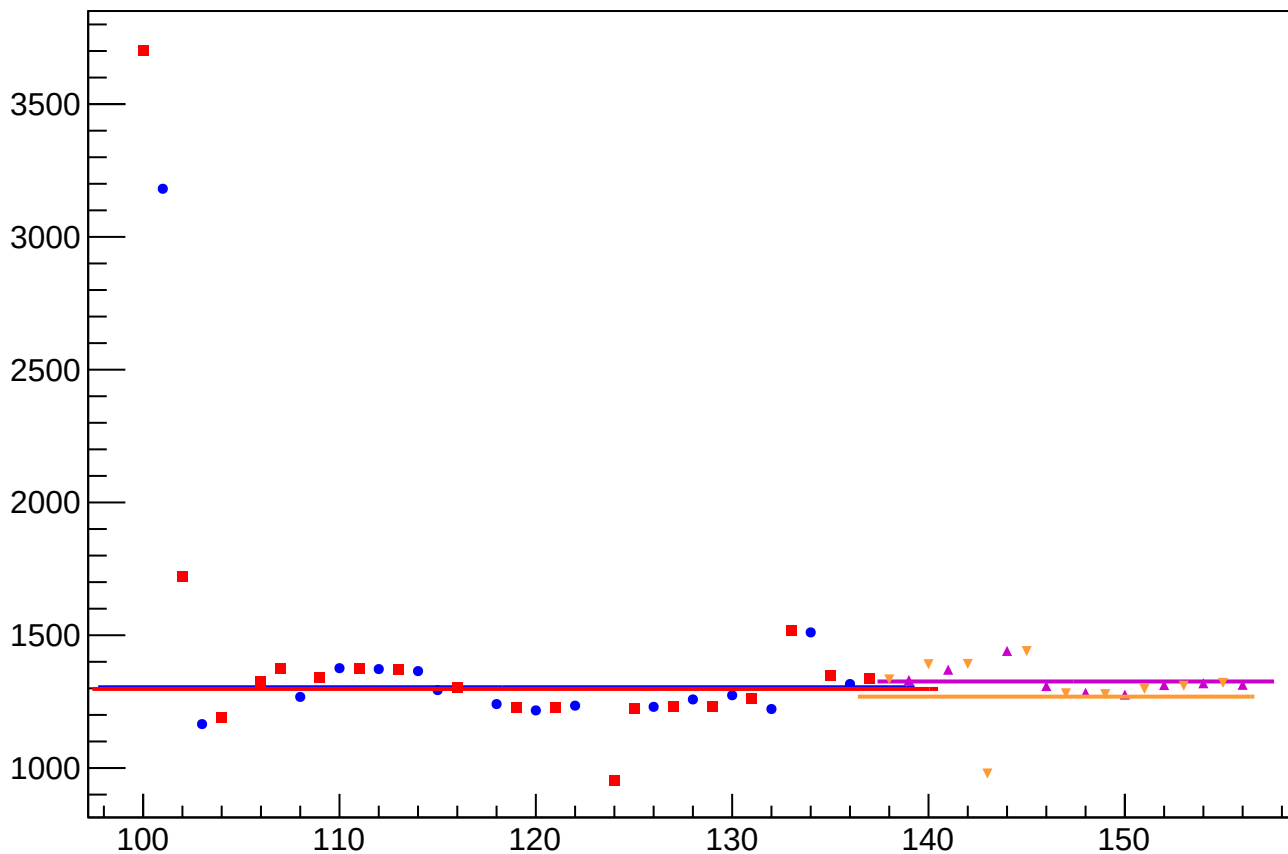
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -554.350+/-342.001 χ^2/NDF :19.1/24

Out: 385.459+/-332.245 χ^2/NDF :32.9/28

All: -70.851+/-238.307 χ^2/NDF : 55.8/53

dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102 ± 0.349 $\chi^2/\text{NDF}: 510589.4/15$

Left Out: 1268.816 ± 0.322 $\chi^2/\text{NDF}: 194521.7/9$

Right Out: 1297.796 ± 0.343 $\chi^2/\text{NDF}: 213096.9/18$

Left In: 1325.912 ± 0.335 $\chi^2/\text{NDF}: 18549.3/8$

Left: 1296.248 ± 0.232 $\chi^2/\text{NDF}: 228161.6/18$

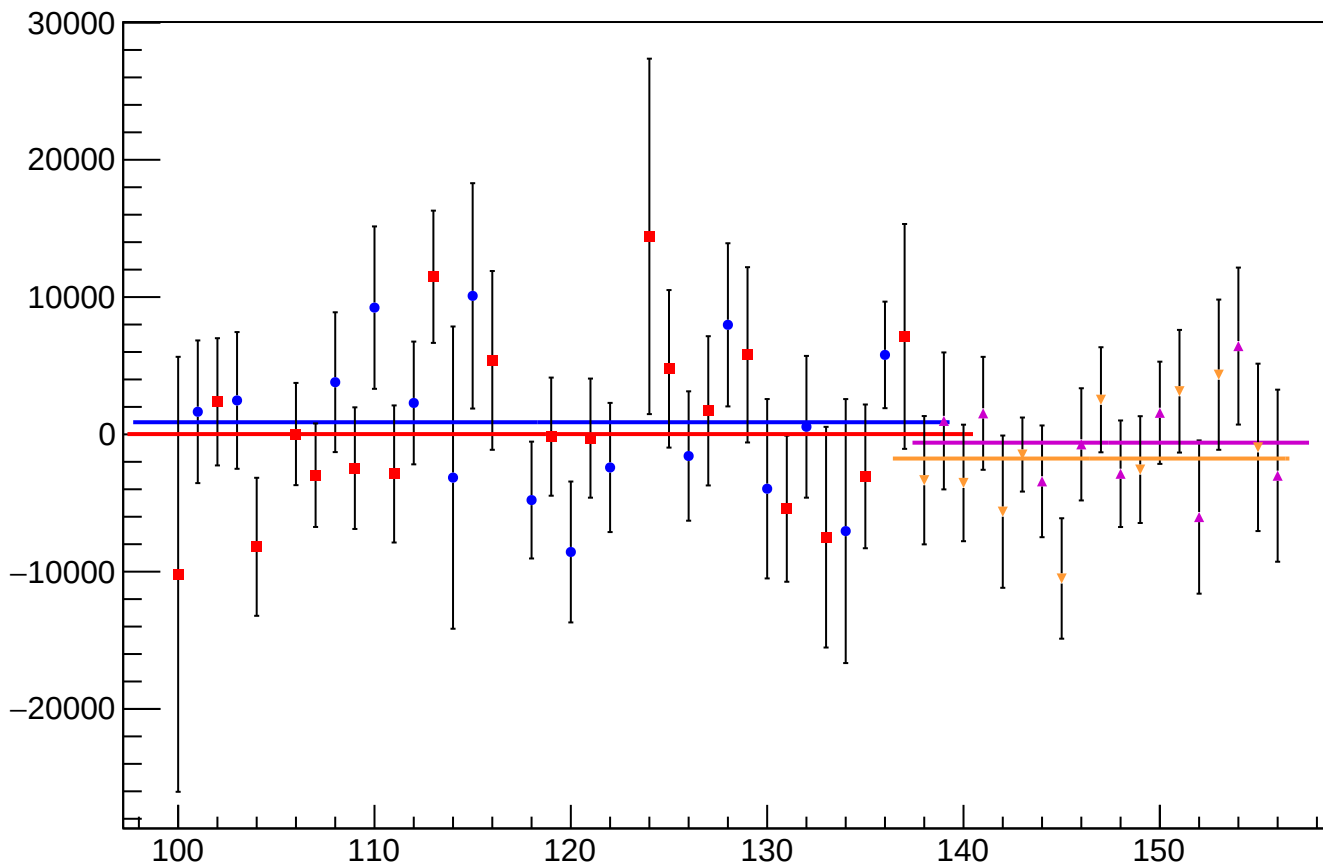
Right: 1300.891 ± 0.245 $\chi^2/\text{NDF}: 723852.1/34$

In: 1315.466 ± 0.242 $\chi^2/\text{NDF}: 531168.5/24$

Out: 1282.396 ± 0.235 $\chi^2/\text{NDF}: 411410.3/28$

All: 1298.447 ± 0.168 $\chi^2/\text{NDF}: 952203.1/53$

asym_atl_dd_atr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 ± 1327.399 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -1760.925 ± 1326.844 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 20.681 ± 1200.015 $\chi^2/\text{NDF}: 16.8/18$

Left In: -605.876 ± 1496.897 $\chi^2/\text{NDF}: 4.1/8$

Left: -1252.709 ± 992.924 $\chi^2/\text{NDF}: 13.0/18$

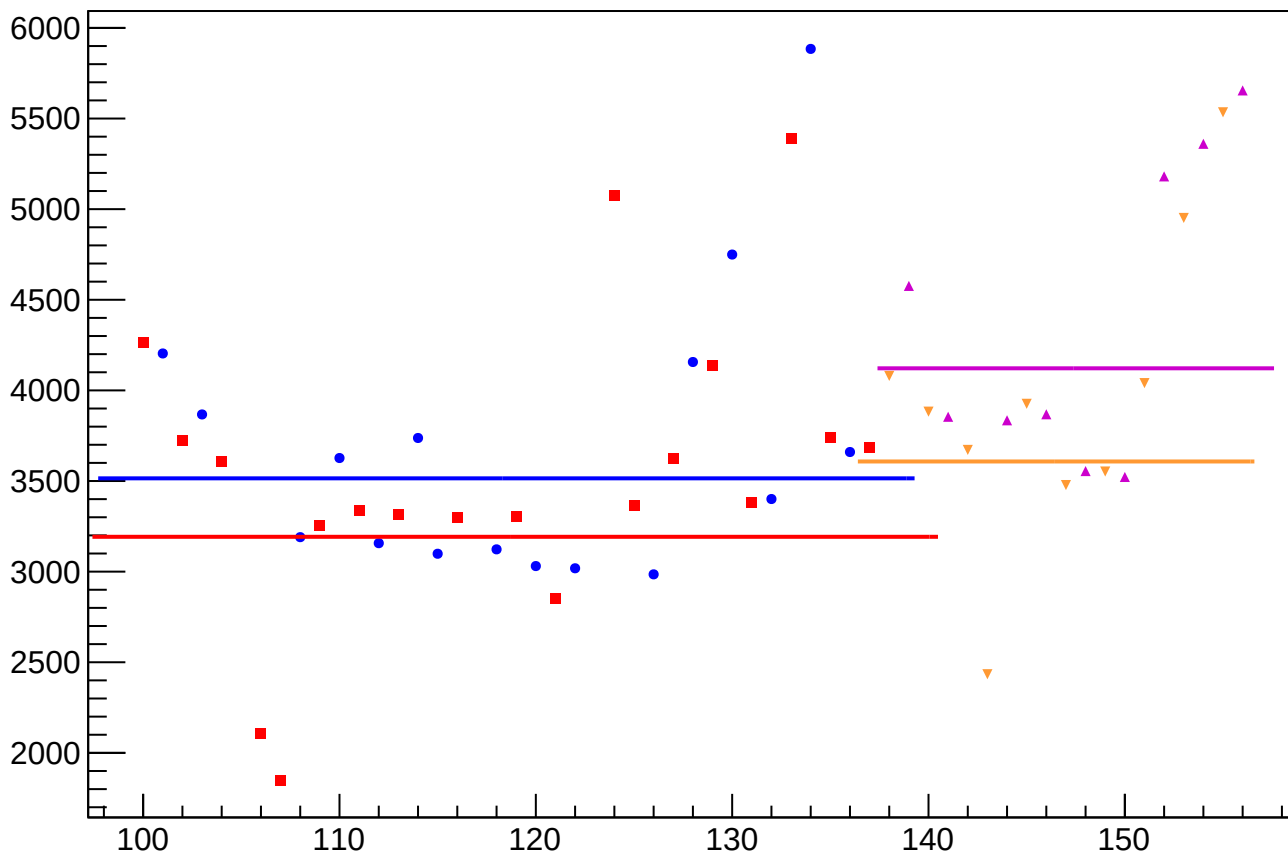
Right: 408.965 ± 890.176 $\chi^2/\text{NDF}: 31.2/34$

In: 228.187 ± 993.156 $\chi^2/\text{NDF}: 18.8/24$

Out: -780.923 ± 890.009 $\chi^2/\text{NDF}: 26.3/28$

All: -331.475 ± 662.808 $\chi^2/\text{NDF}: 45.7/53$

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: 3607.808 $\pm$ 0.938 χ^2 /NDF: 760158.3/9

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4121.849 $\pm$ 1.058 χ^2 /NDF: 422854.0/8

Left: 3833.983 $\pm$ 0.702 χ^2 /NDF: 1315090.8/18

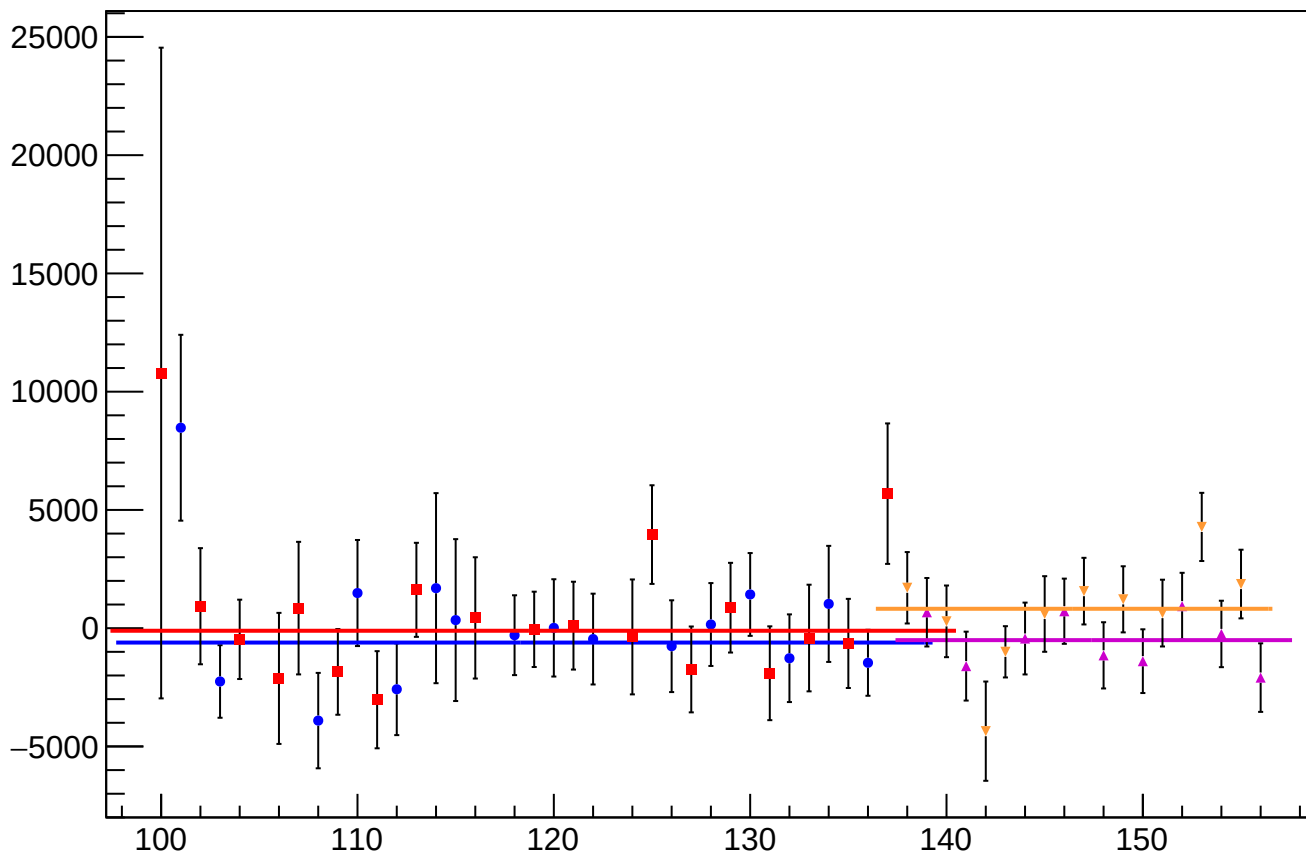
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3781.993 $\pm$ 0.702 χ^2 /NDF: 982095.8/24

Out: 3379.198 $\pm$ 0.629 χ^2 /NDF: 1640589.9/28

All: 3558.599 $\pm$ 0.469 χ^2 /NDF: 2805138.5/53

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: 820.470+/-455.608 χ^2/NDF :16.0/9

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -505.191+/-473.787 χ^2/NDF :4.9/8

Left: 183.559+/-328.402 χ^2/NDF : 25.1/18

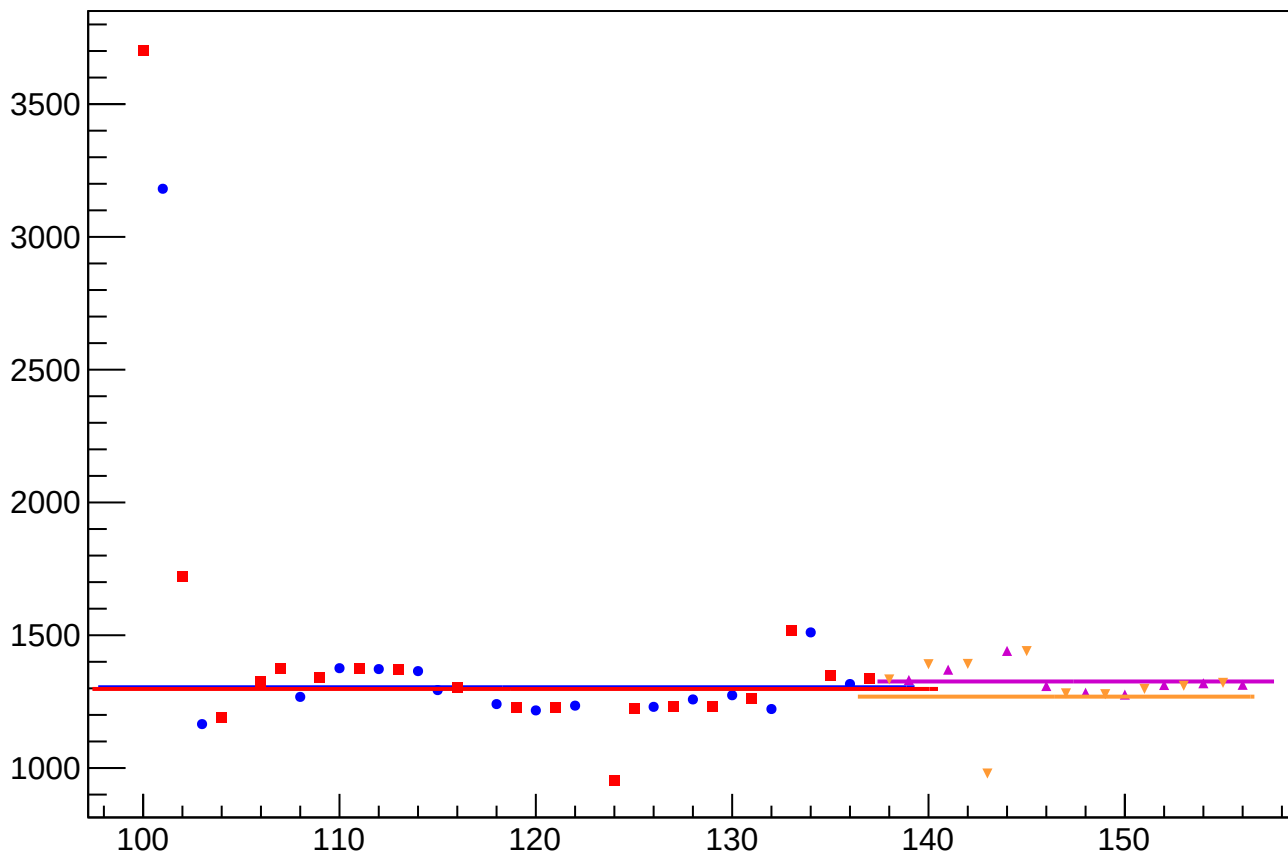
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -554.351+/-342.001 χ^2/NDF :19.1/24

Out: 385.456+/-332.245 χ^2/NDF :32.9/28

All: -70.853+/-238.307 χ^2/NDF : 55.8/53

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.6/15

Left Out: 1268.817 $\pm$ 0.322 χ^2 /NDF:194522.0/9

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213097.0/18

Left In: 1325.913 $\pm$ 0.335 χ^2 /NDF:18549.4/8

Left: 1296.249 $\pm$ 0.232 χ^2 /NDF: 228162.0/18

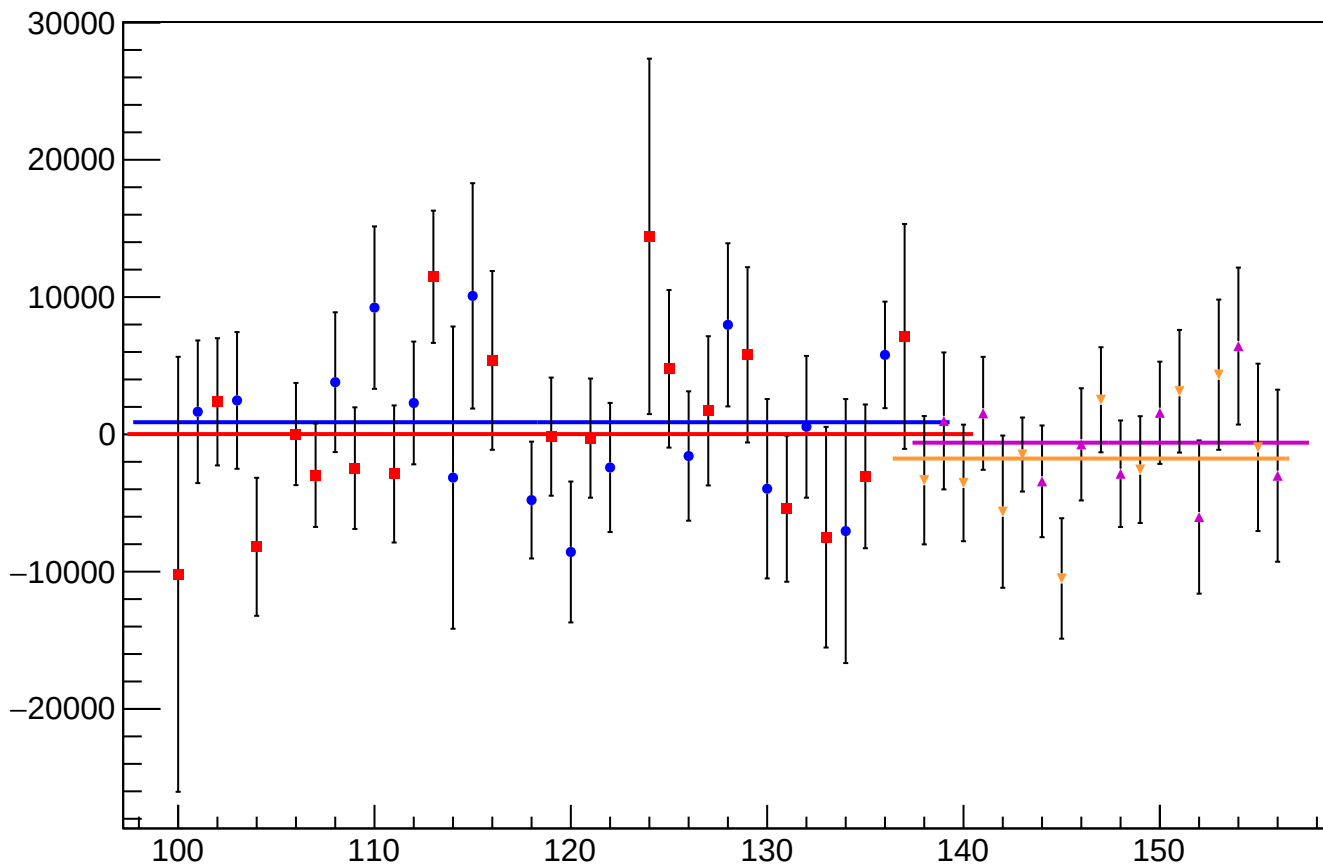
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.4/34

In: 1315.467 $\pm$ 0.242 χ^2 /NDF:531168.9/24

Out: 1282.396 $\pm$ 0.235 χ^2 /NDF:411410.5/28

All: 1298.447 $\pm$ 0.168 χ^2 /NDF: 952203.7/53

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047+/-1327.396 χ^2/NDF : 14.1/15

Left Out: -1760.923+/-1326.846 χ^2/NDF : 8.5/9

Right Out: 20.677+/-1200.012 χ^2/NDF : 16.8/18

Left In: -605.875+/-1496.899 χ^2/NDF : 4.1/8

Left: -1252.707+/-992.925 χ^2/NDF : 13.0/18

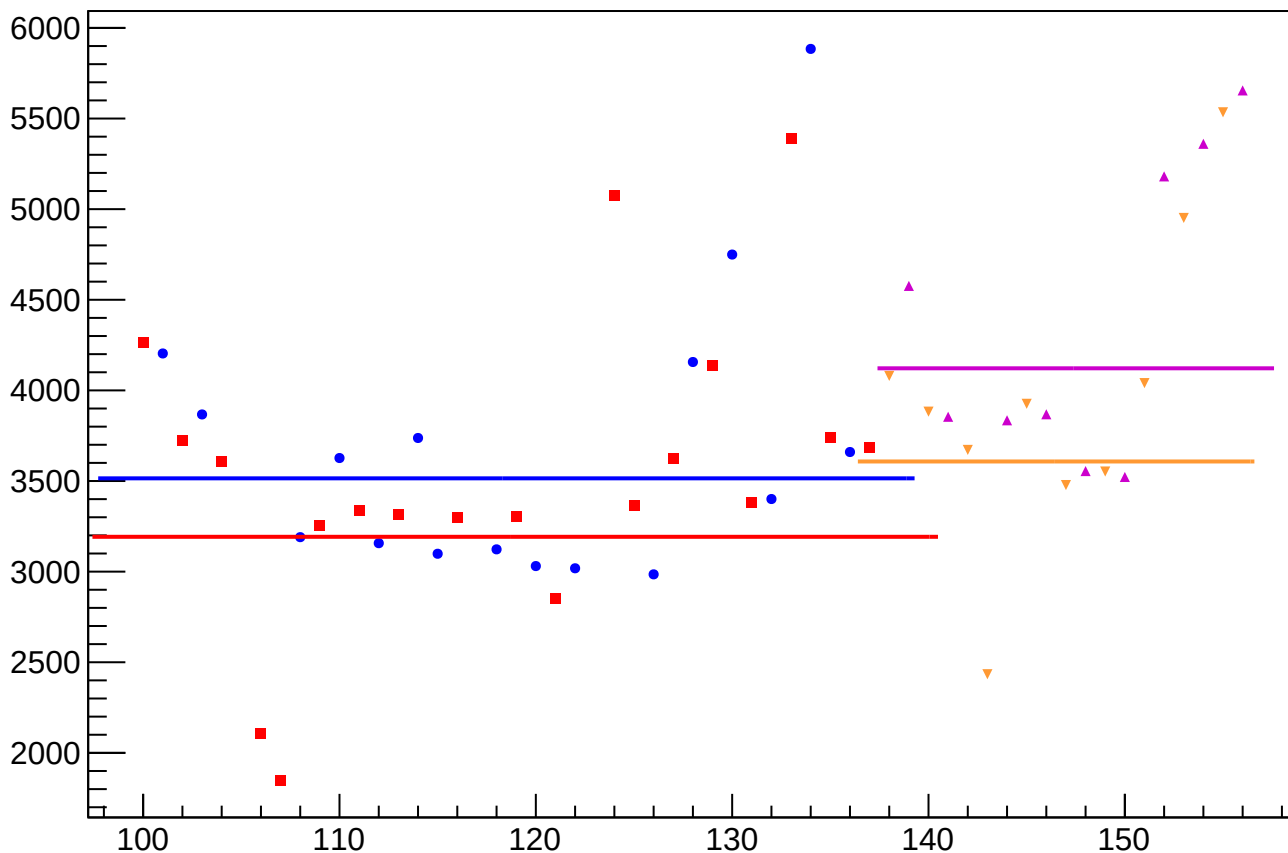
Right: 408.958+/-890.174 χ^2/NDF : 31.2/34

In: 228.185+/-993.155 χ^2/NDF : 18.8/24

Out: -780.921+/-890.008 χ^2/NDF : 26.3/28

All: -331.475+/-662.808 χ^2/NDF : 45.7/53

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: 3607.813 $\pm$ 0.938 χ^2 /NDF: 760158.4/9

Right Out: 3192.196 $\pm$ 0.849 χ^2 /NDF: 772497.9/18

Left In: 4121.854 $\pm$ 1.058 χ^2 /NDF: 422854.5/8

Left: 3833.988 $\pm$ 0.702 χ^2 /NDF: 1315091.3/18

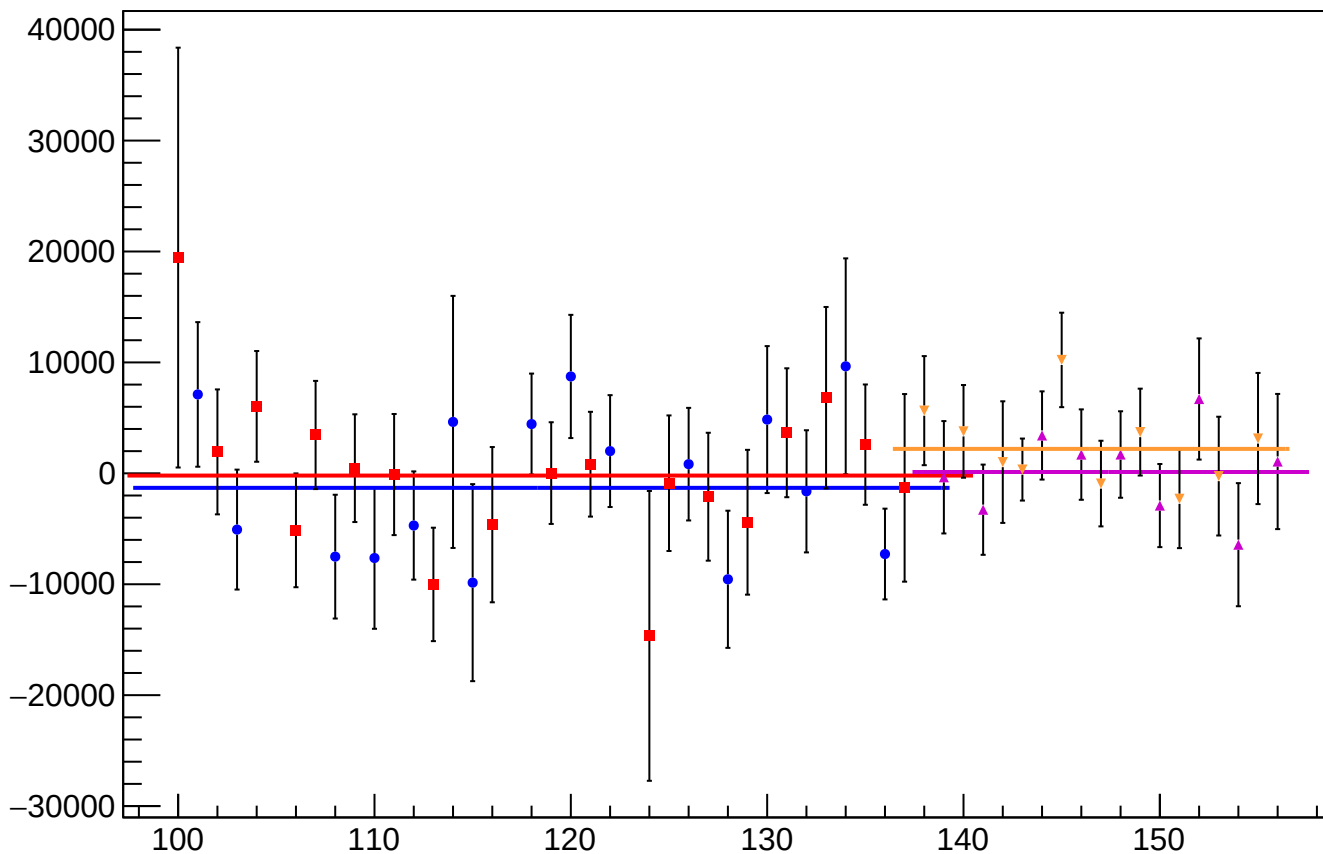
Right: 3337.251 $\pm$ 0.629 χ^2 /NDF: 1212560.4/34

In: 3781.989 $\pm$ 0.702 χ^2 /NDF: 982109.3/24

Out: 3379.195 $\pm$ 0.629 χ^2 /NDF: 1640599.0/28

All: 3558.596 $\pm$ 0.469 χ^2 /NDF: 2805160.3/53

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1309.349 ± 1431.624 $\chi^2/\text{NDF}: 17.6/15$

Left Out: 2203.166 ± 1334.679 $\chi^2/\text{NDF}: 6.7/9$

Right Out: -201.593 ± 1336.062 $\chi^2/\text{NDF}: 11.6/18$

Left In: 120.099 ± 1486.086 $\chi^2/\text{NDF}: 5.2/8$

Left: 1273.122 ± 992.988 $\chi^2/\text{NDF}: 13.1/18$

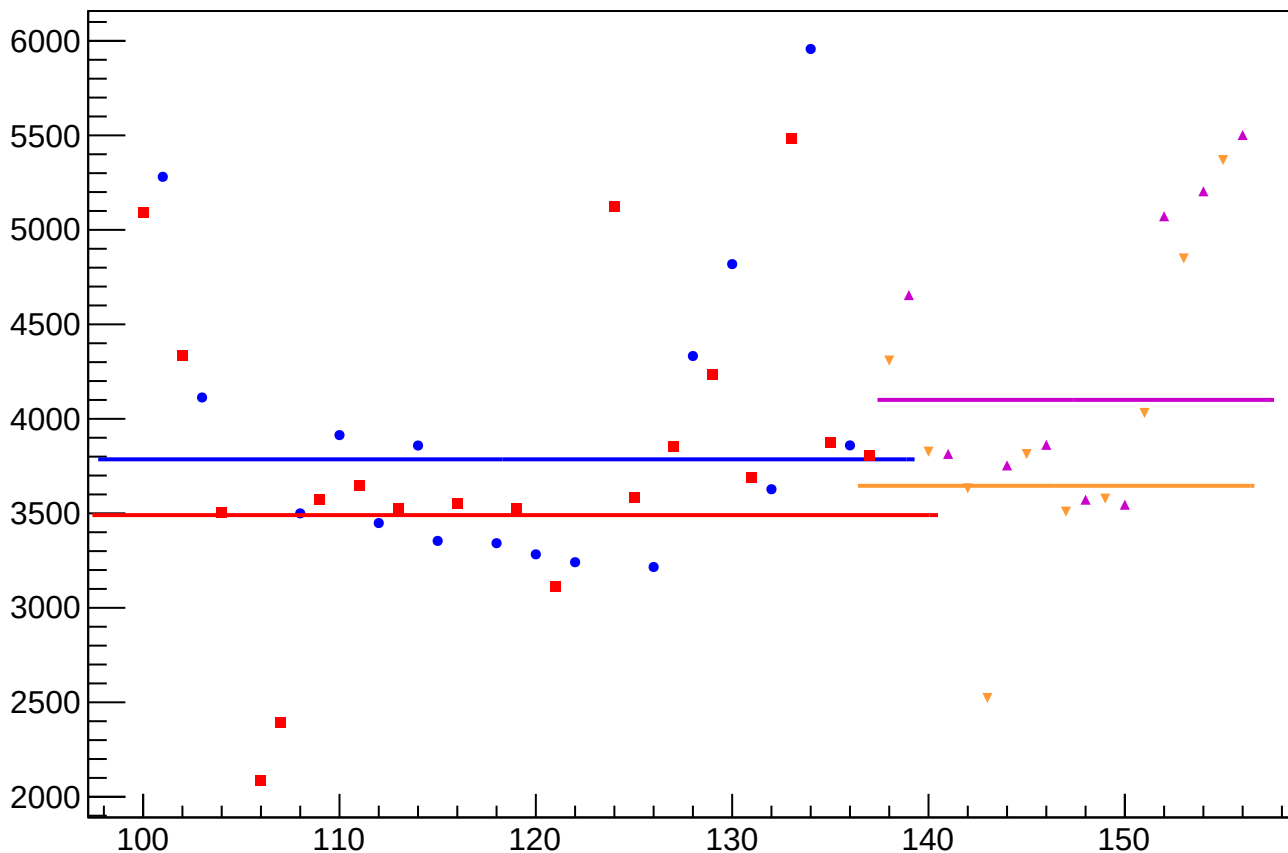
Right: -717.269 ± 976.776 $\chi^2/\text{NDF}: 29.5/34$

In: -621.298 ± 1031.027 $\chi^2/\text{NDF}: 23.3/24$

Out: 1002.032 ± 944.249 $\chi^2/\text{NDF}: 20.0/28$

All: 261.546 ± 696.346 $\chi^2/\text{NDF}: 44.6/53$

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: 3645.649+/-0.944 χ^2/NDF : 654864.0/9

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4100.386+/-1.051 χ^2/NDF : 384587.9/8

Left: 3848.679+/-0.702 χ^2/NDF : 1143108.7/18

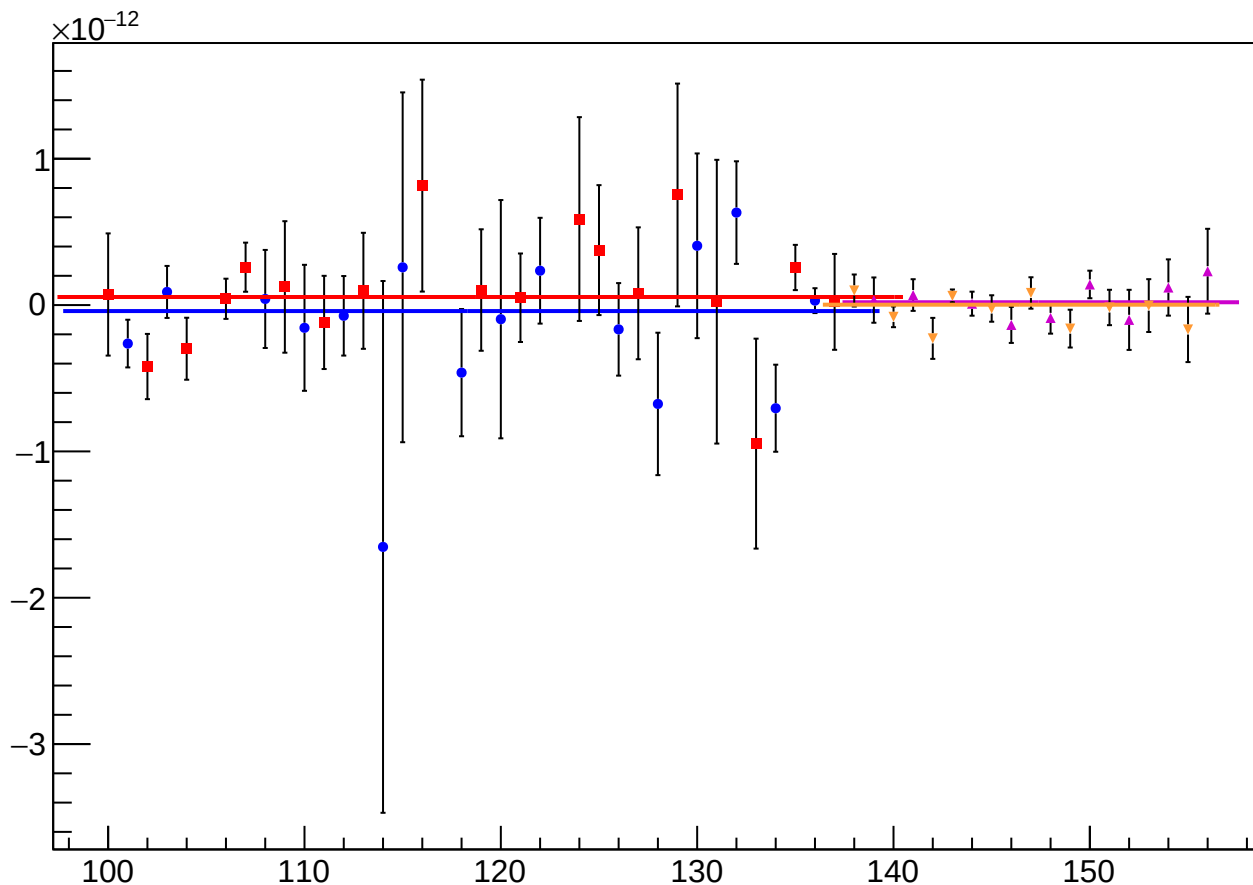
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3937.208+/-0.729 χ^2/NDF : 814072.9/24

Out: 3567.147+/-0.663 χ^2/NDF : 1255243.3/28

All: 3734.686+/-0.491 χ^2/NDF : 2210322.8/53

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 : 9.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.6/8

Left: 0.000+/-0.000 χ^2/NDF : 15.3/18

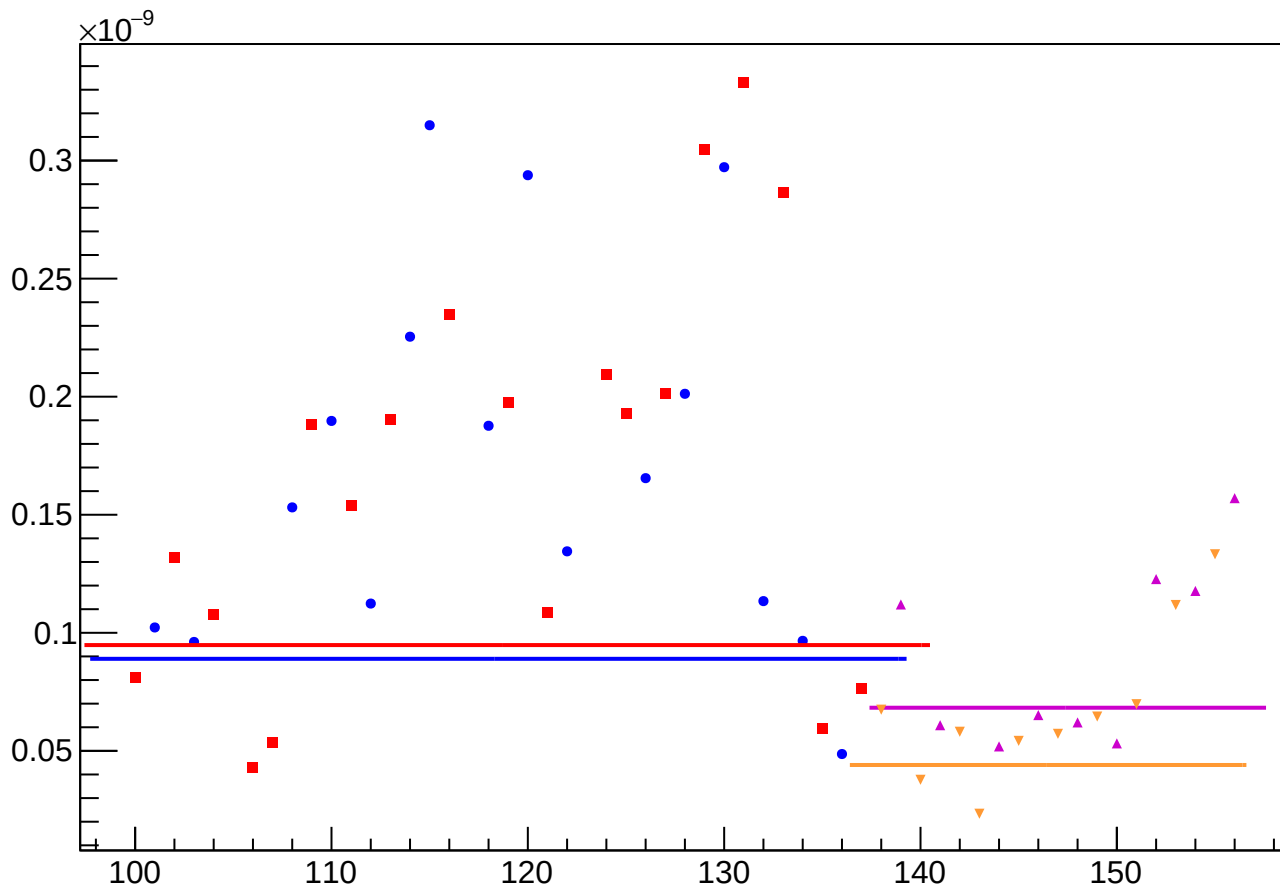
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF : 23.0/24

Out: 0.000+/-0.000 χ^2/NDF : 26.0/28

All: 0.000+/-0.000 χ^2/NDF : 49.1/53

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 :1367936.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000 χ^2/NDF :768824.6/8

Left: 0.000+/-0.000 χ^2/NDF : 2614313.6/18

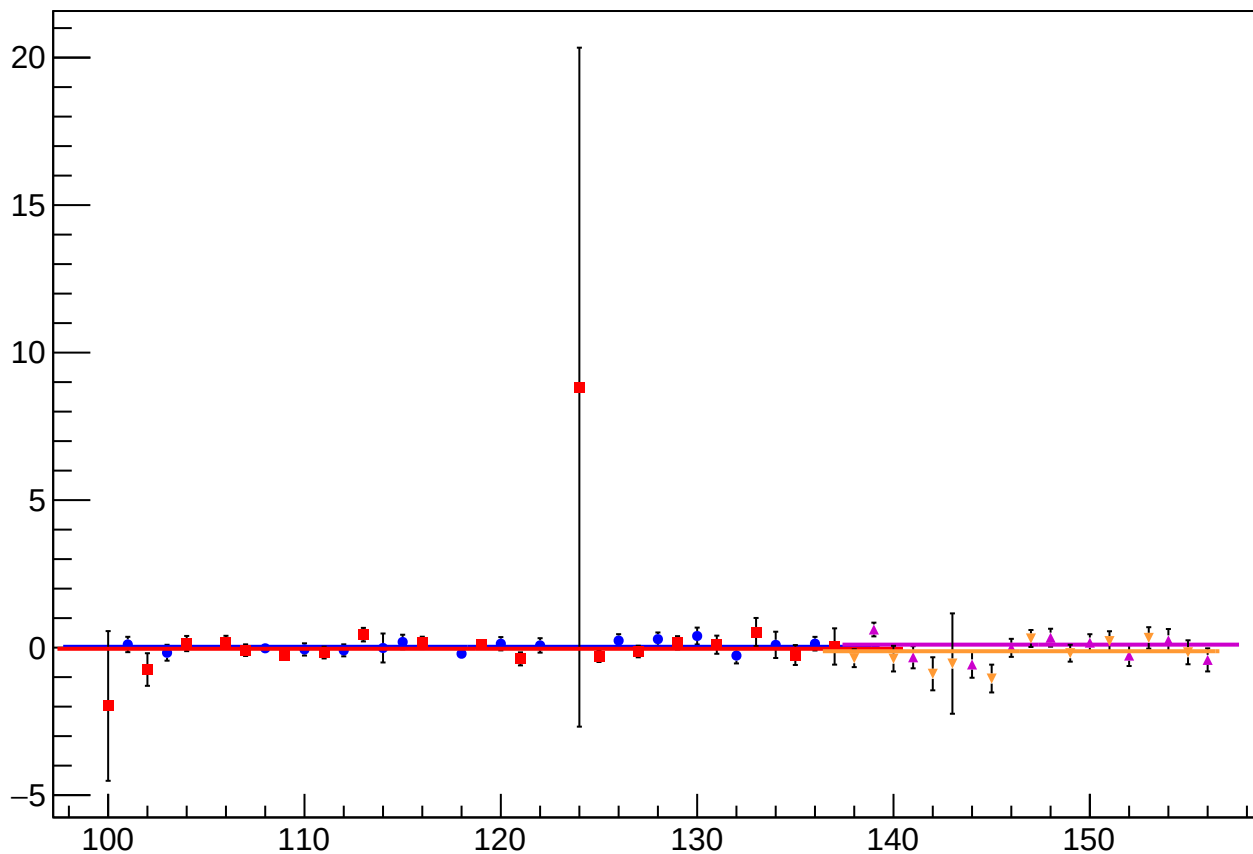
Right: 0.000+/-0.000 χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000 χ^2/NDF :2396588.4/24

Out: 0.000+/-0.000 χ^2/NDF :4155699.5/28

All: 0.000+/-0.000 χ^2/NDF : 7119329.1/53

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 χ^2/NDF : 9.4/15

Left Out: -0.122 ± 0.119 χ^2/NDF : 11.6/9

Right Out: -0.039 ± 0.055 χ^2/NDF : 20.0/18

Left In: 0.101 ± 0.108 χ^2/NDF : 12.1/8

Left: -0.000 ± 0.080 χ^2/NDF : 25.7/18

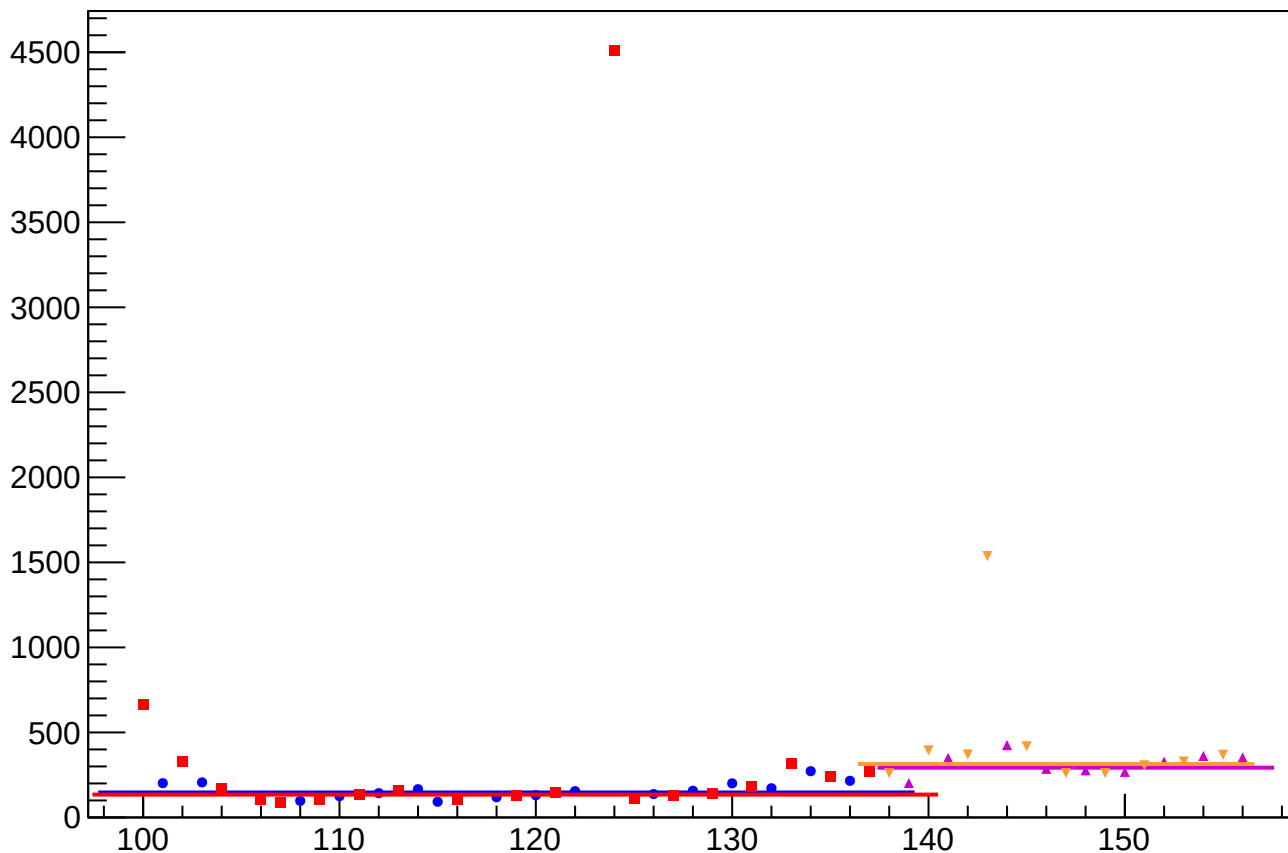
Right: -0.007 ± 0.040 χ^2/NDF : 30.2/34

In: 0.044 ± 0.051 χ^2/NDF : 22.0/24

Out: -0.054 ± 0.050 χ^2/NDF : 32.0/28

All: -0.006 ± 0.036 χ^2/NDF : 55.9/53

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: 314.096+/-0.084 χ^2/NDF : 1457813.7/9

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 292.722+/-0.076 χ^2/NDF : 676176.2/8

Left: 302.413+/-0.056 χ^2/NDF : 2169500.3/18

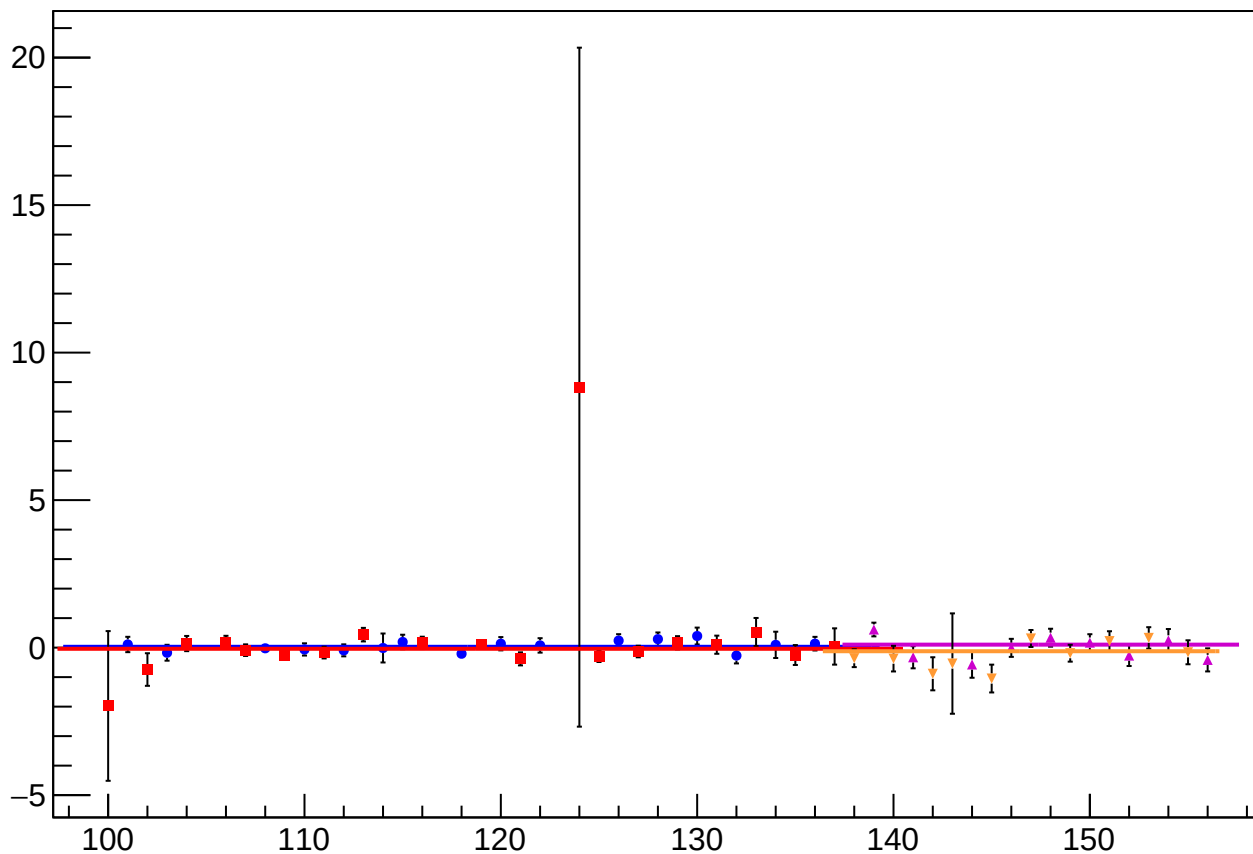
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 179.223+/-0.036 χ^2/NDF : 4513737.9/24

Out: 166.085+/-0.035 χ^2/NDF : 6844354.8/28

All: 172.502+/-0.025 χ^2/NDF : 11426269.5/53

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.122+/-0.119 χ^2/NDF : 11.6/9

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.101+/-0.108 χ^2/NDF : 12.1/8

Left: -0.000+/-0.080 χ^2/NDF : 25.7/18

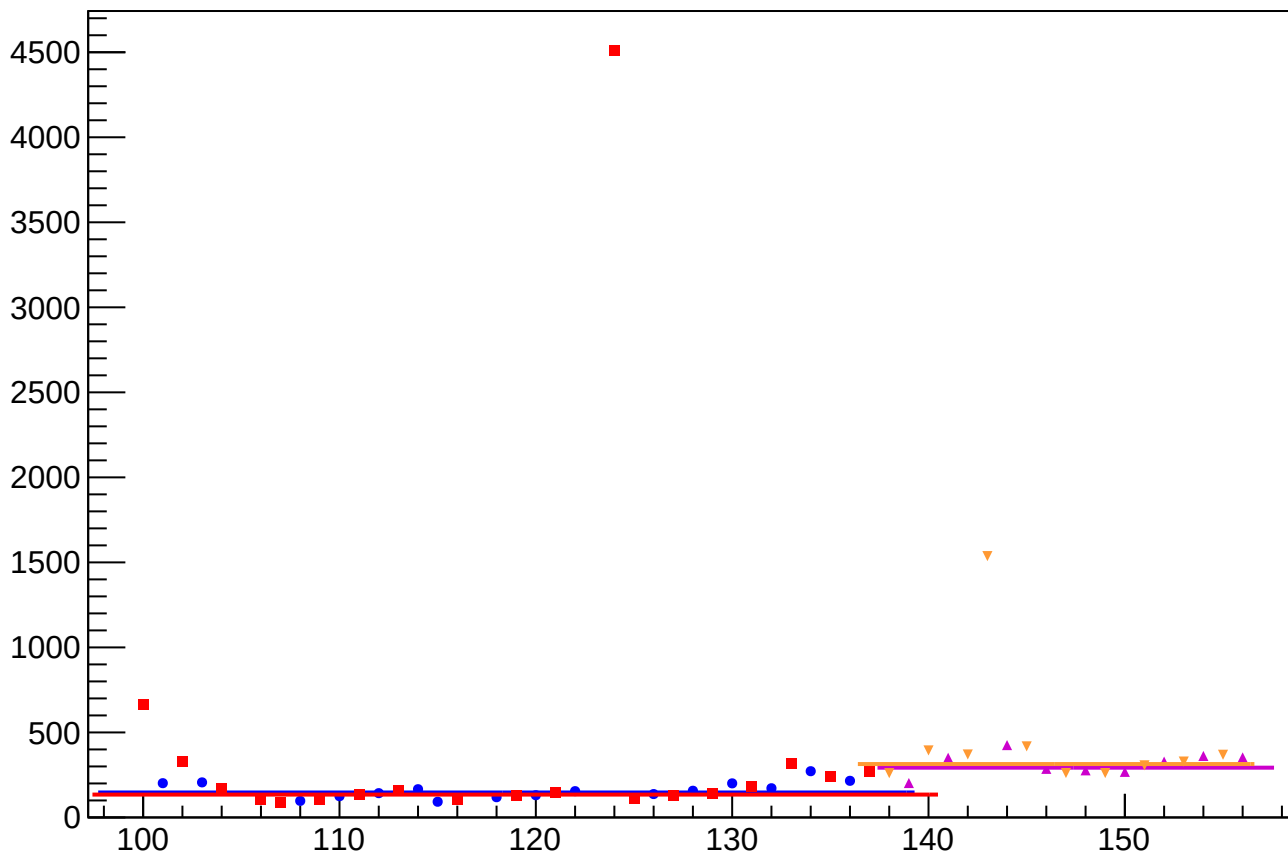
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.044+/-0.051 χ^2/NDF : 22.0/24

Out: -0.054+/-0.050 χ^2/NDF : 32.0/28

All: -0.006+/-0.036 χ^2/NDF : 55.9/53

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: 314.096+/-0.084 χ^2/NDF : 1457813.7/9

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 292.722+/-0.076 χ^2/NDF : 676176.2/8

Left: 302.413+/-0.056 χ^2/NDF : 2169500.3/18

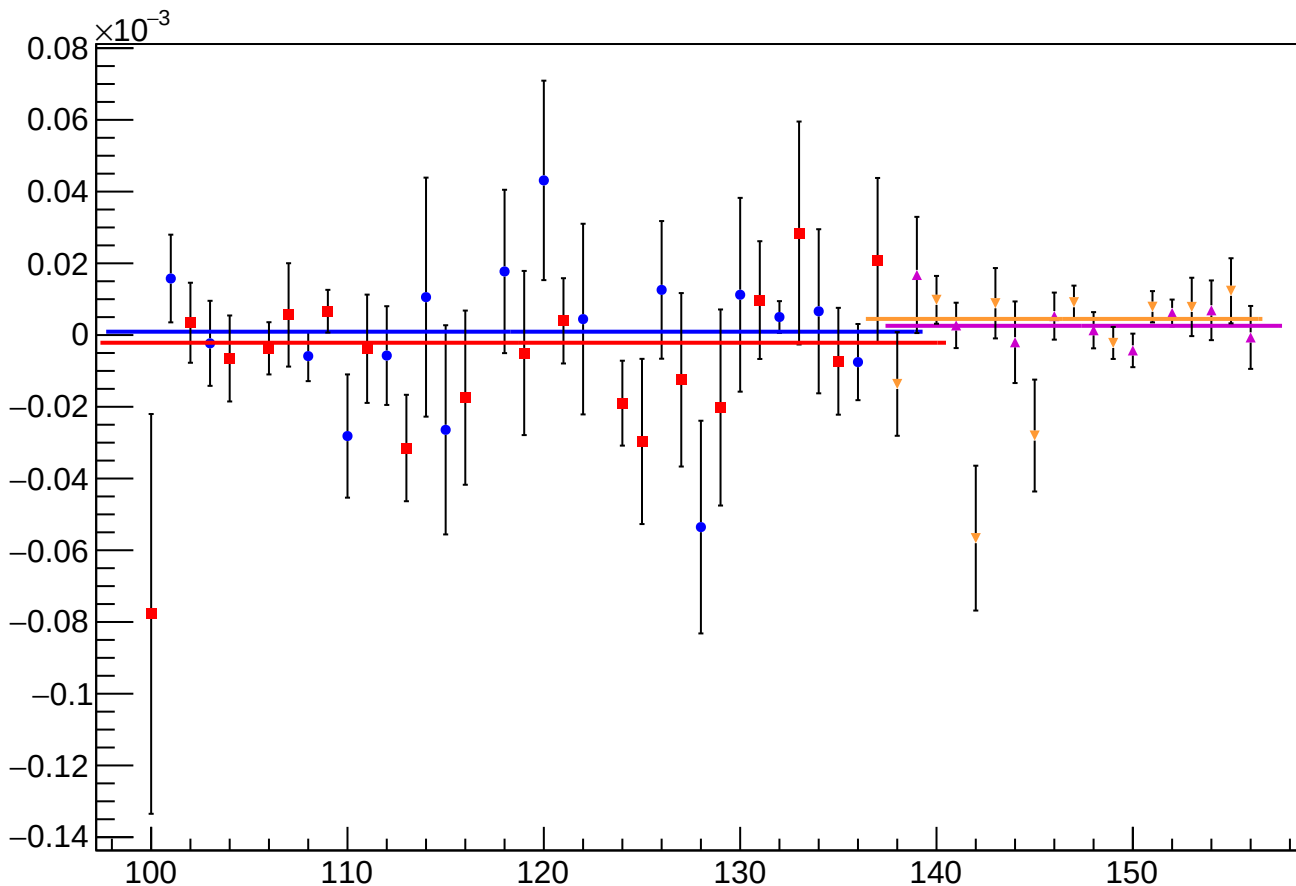
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 179.223+/-0.036 χ^2/NDF : 4513737.9/24

Out: 166.085+/-0.035 χ^2/NDF : 6844354.8/28

All: 172.502+/-0.025 χ^2/NDF : 11426269.5/53

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 : 20.7/9

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.6/8

Left: 0.000+/-0.000 χ^2/NDF : 25.8/18

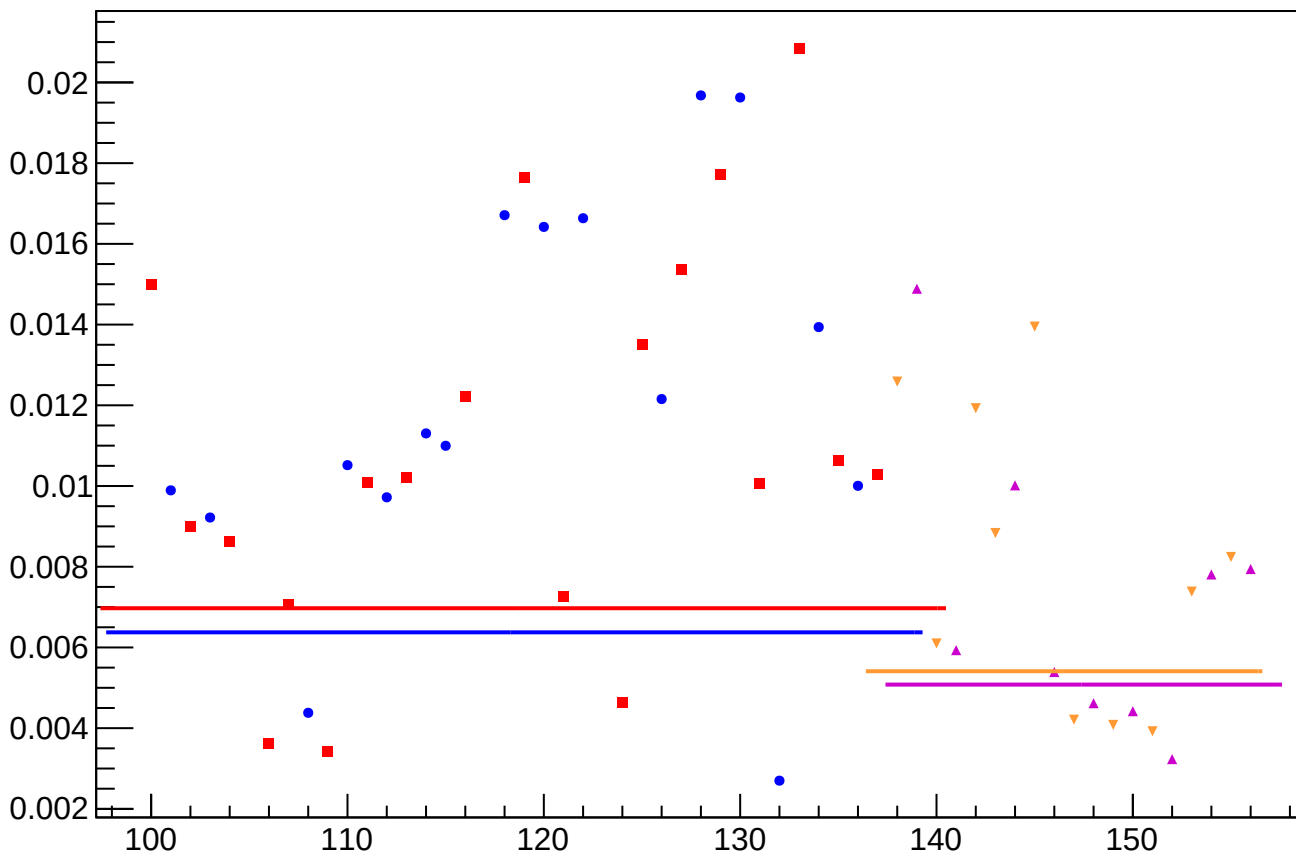
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF : 19.7/24

Out: 0.000+/-0.000 χ^2/NDF : 40.0/28

All: 0.000+/-0.000 χ^2/NDF : 59.7/53

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: 0.005+/-0.000 χ^2/NDF : 2422742.1/9

Right Out: 0.007+/-0.000 χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000 χ^2/NDF : 2124835.7/8

Left: 0.005+/-0.000 χ^2/NDF : 4572924.6/18

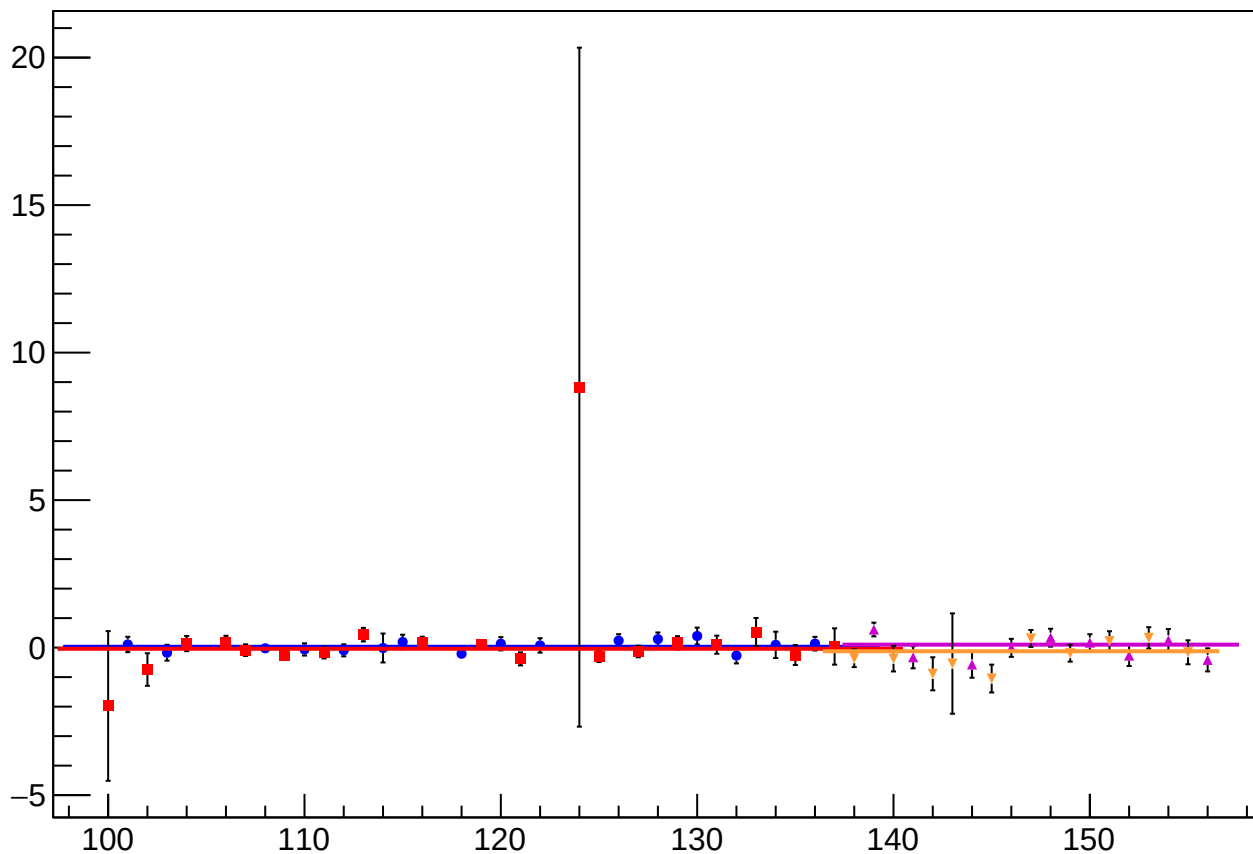
Right: 0.007+/-0.000 χ^2/NDF : 8090163.7/34

In: 0.005+/-0.000 χ^2/NDF : 7029294.8/24

Out: 0.006+/-0.000 χ^2/NDF : 6190932.1/28

All: 0.006+/-0.000 χ^2/NDF : 13284405.7/53

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.122+/-0.119 χ^2/NDF : 11.6/9

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.101+/-0.108 χ^2/NDF : 12.1/8

Left: -0.000+/-0.080 χ^2/NDF : 25.7/18

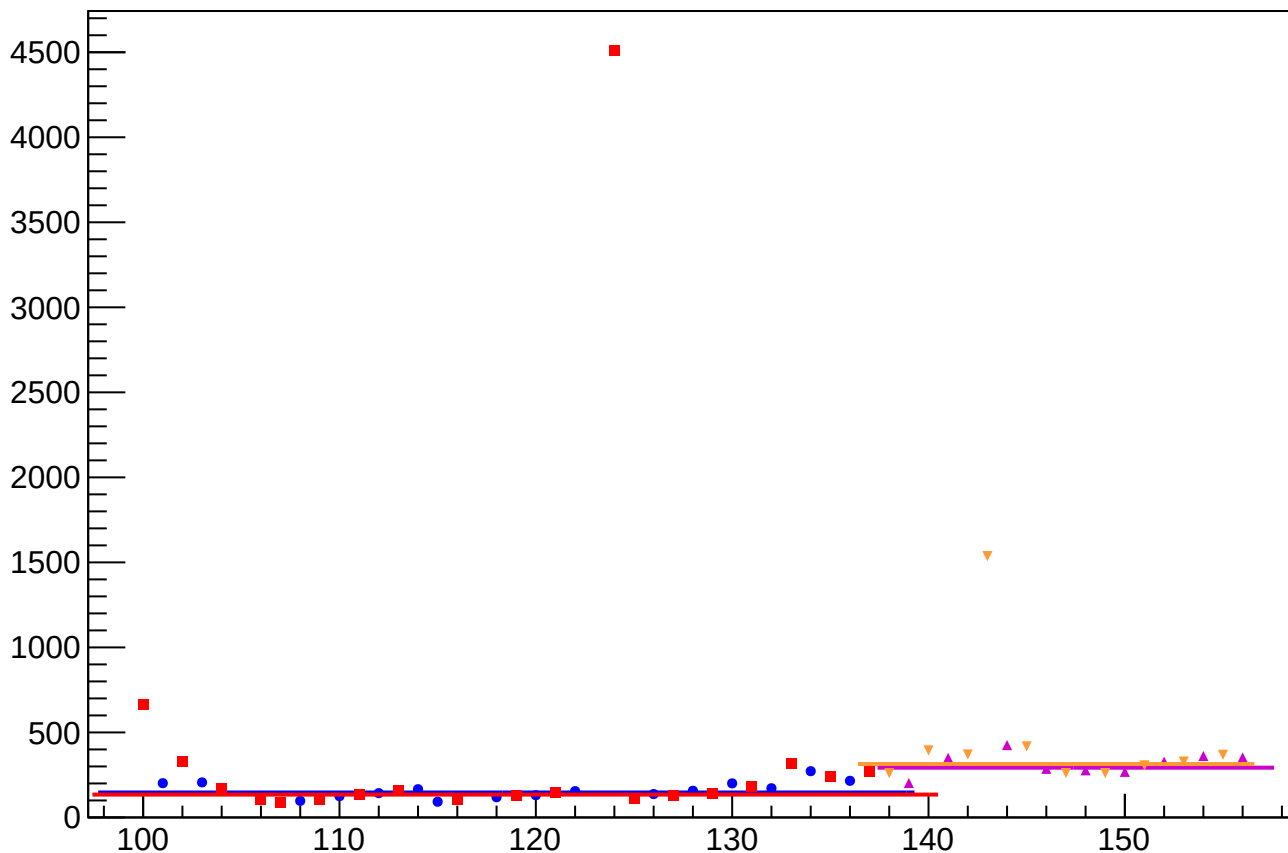
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.044+/-0.051 χ^2/NDF : 22.0/24

Out: -0.054+/-0.050 χ^2/NDF : 32.0/28

All: -0.006+/-0.036 χ^2/NDF : 55.9/53

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: 314.099+/-0.084 χ^2/NDF : 1457814.6/9

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 292.726+/-0.076 χ^2/NDF : 676155.9/8

Left: 302.417+/-0.056 χ^2/NDF : 2169478.0/18

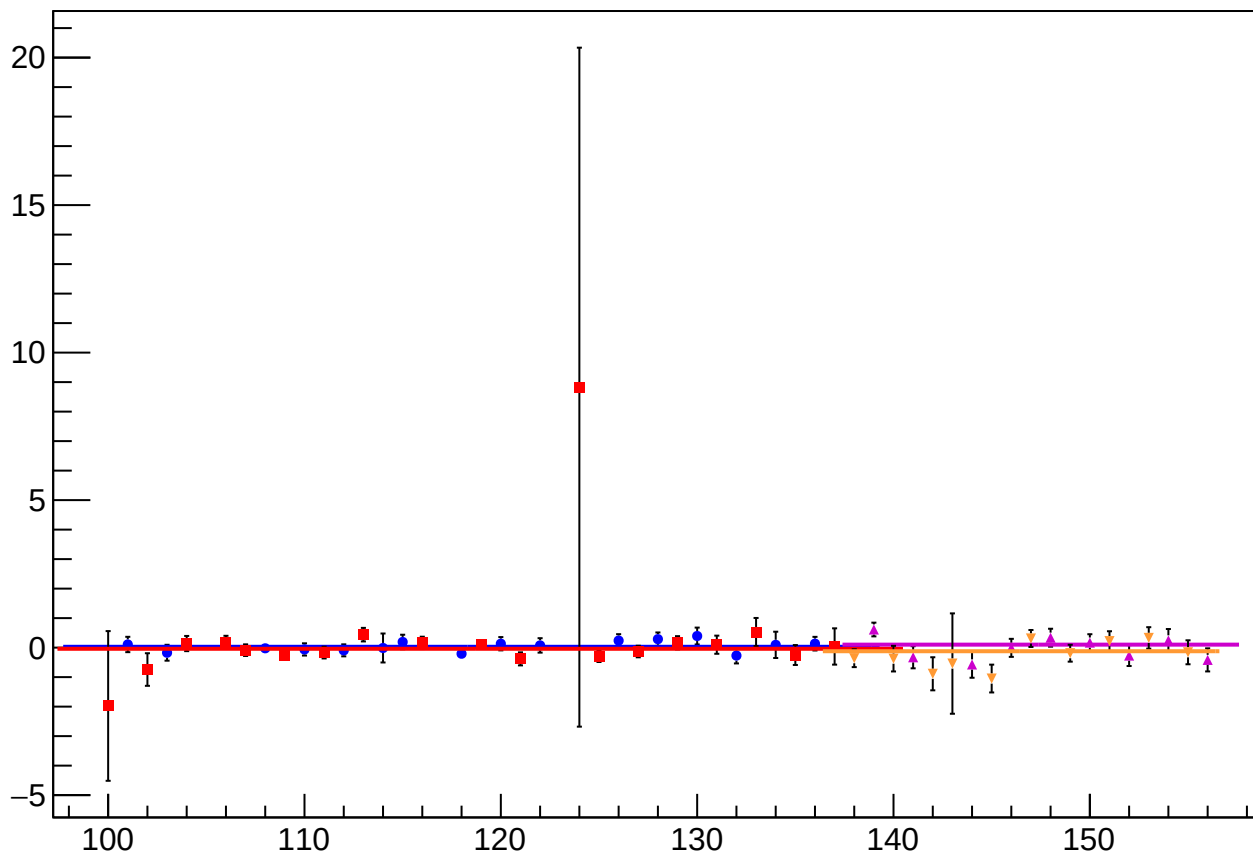
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 179.223+/-0.036 χ^2/NDF : 4513761.5/24

Out: 166.087+/-0.035 χ^2/NDF : 6844296.6/28

All: 172.503+/-0.025 χ^2/NDF : 11426220.3/53

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.122+/-0.119 χ^2/NDF : 11.6/9

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.101+/-0.108 χ^2/NDF : 12.1/8

Left: -0.000+/-0.080 χ^2/NDF : 25.7/18

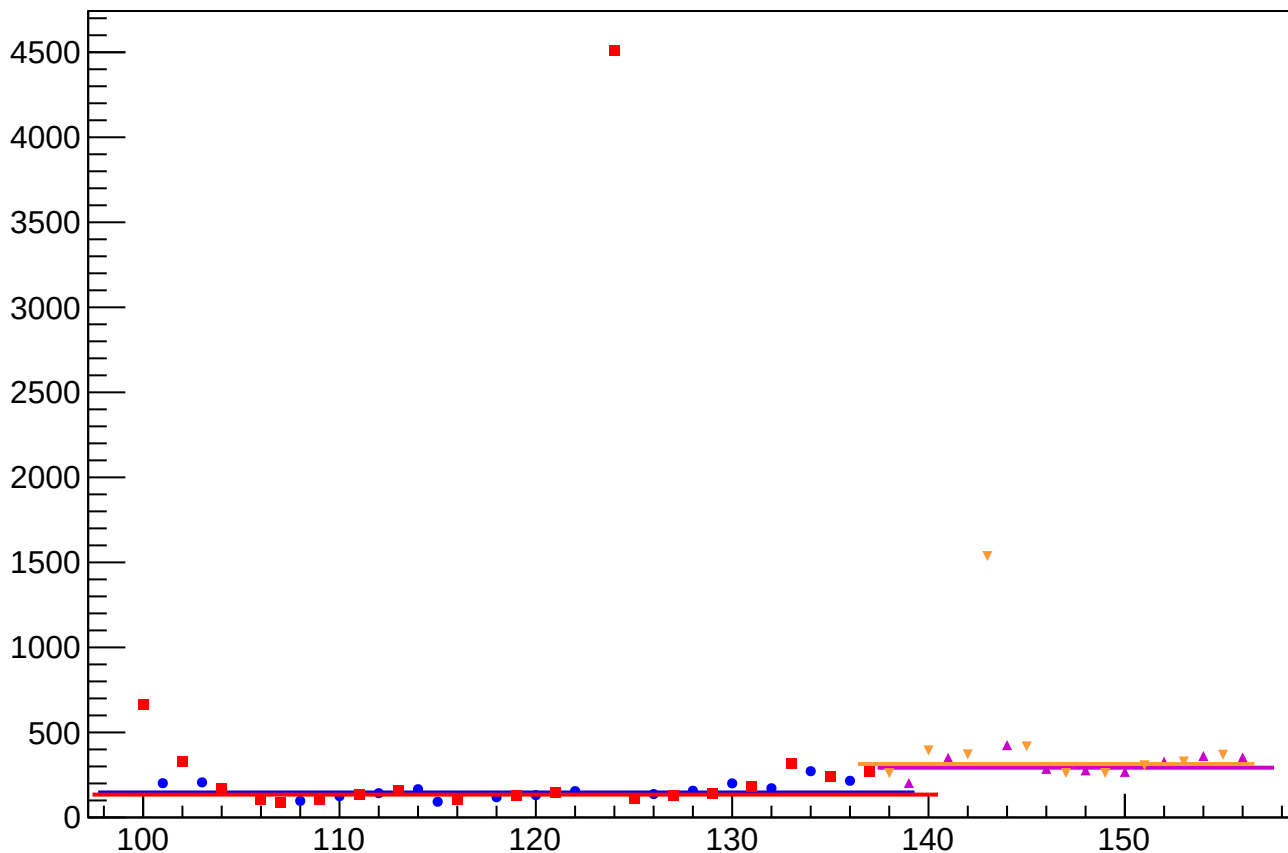
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.044+/-0.051 χ^2/NDF : 22.0/24

Out: -0.054+/-0.050 χ^2/NDF : 32.0/28

All: -0.006+/-0.036 χ^2/NDF : 55.9/53

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: 314.099+/-0.084 χ^2/NDF : 1457814.6/9

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 292.726+/-0.076 χ^2/NDF : 676155.9/8

Left: 302.417+/-0.056 χ^2/NDF : 2169478.0/18

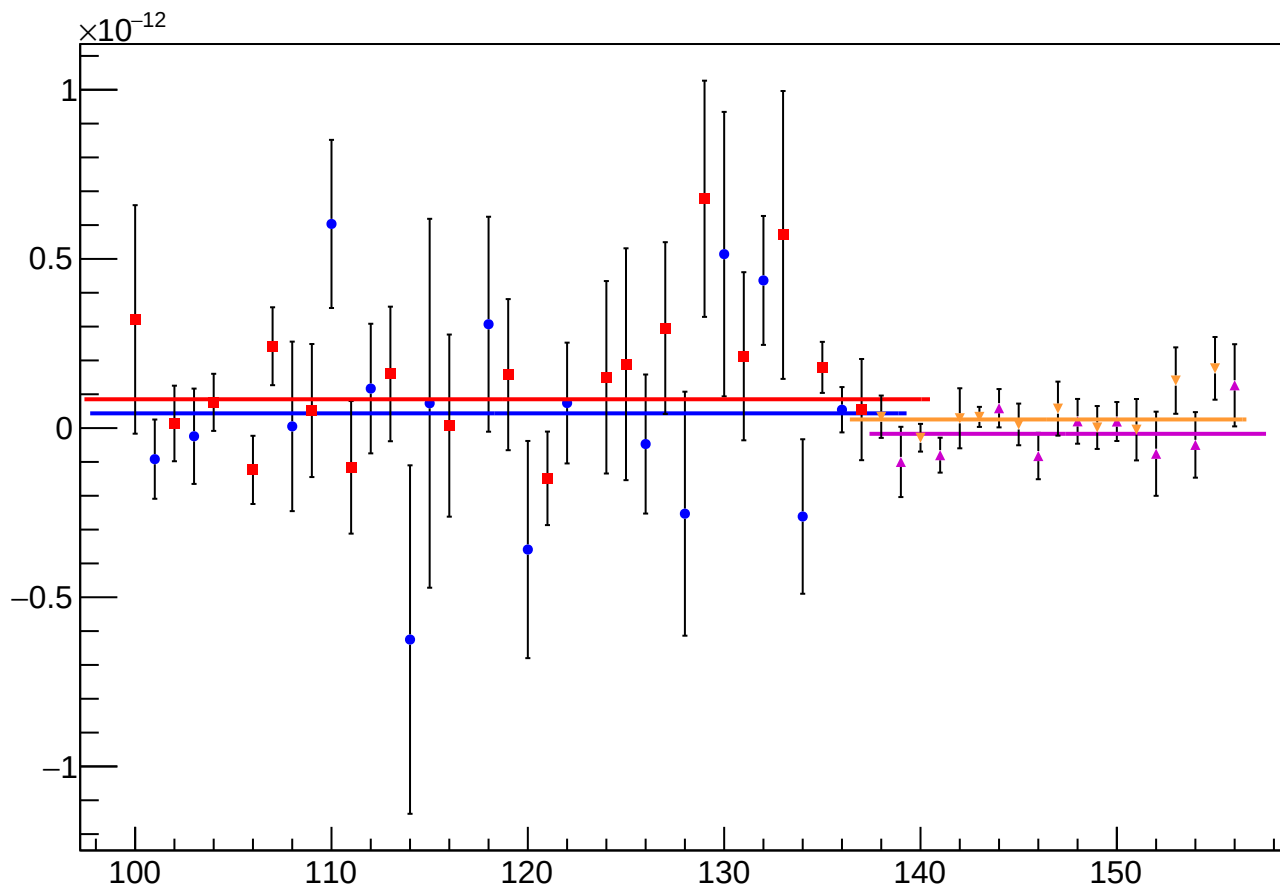
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 179.223+/-0.036 χ^2/NDF : 4513761.5/24

Out: 166.087+/-0.035 χ^2/NDF : 6844296.6/28

All: 172.503+/-0.025 χ^2/NDF : 11426220.3/53

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.0/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:6.3/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.2/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:7.3/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.6/18

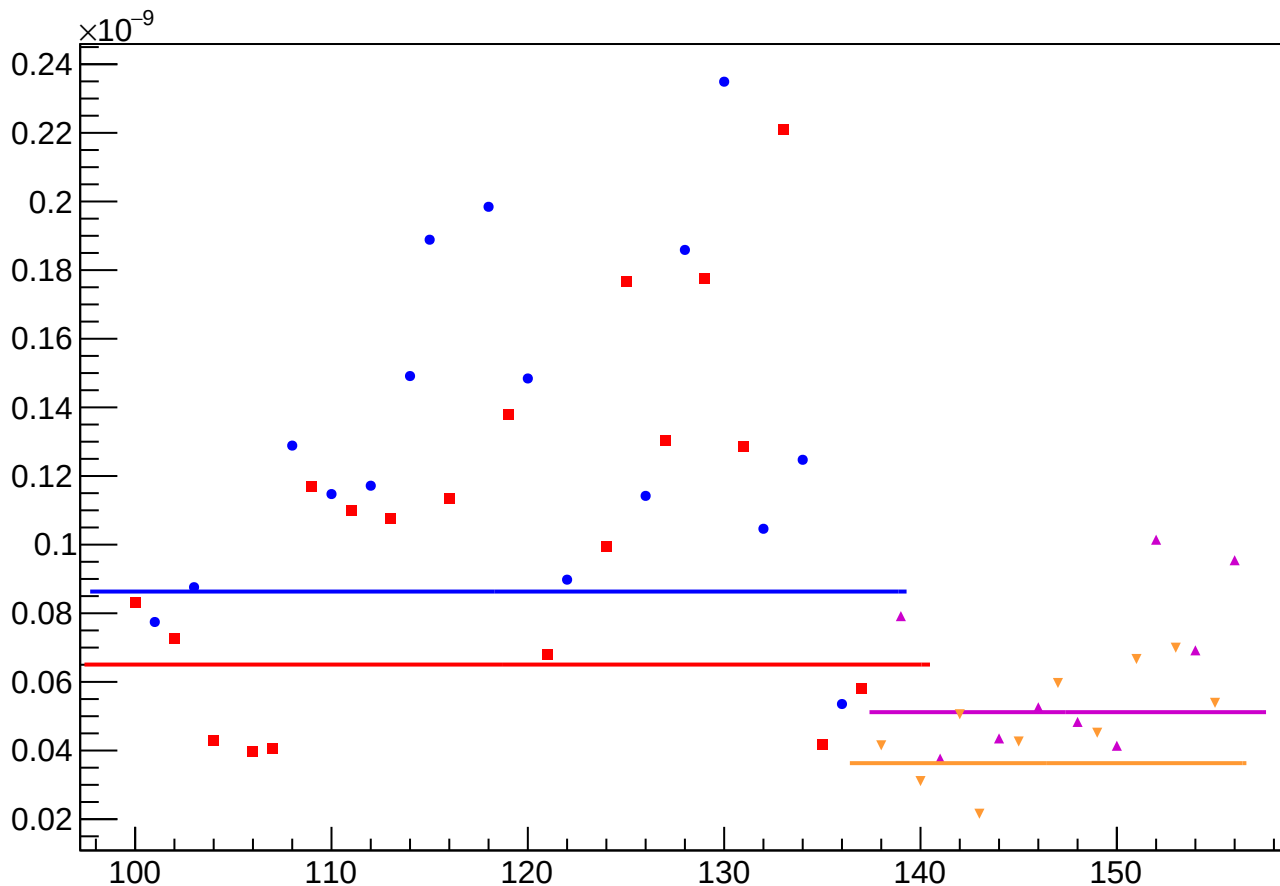
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.8/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:27.8/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:26.9/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 57.2/53

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 :1354172.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1043638.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2895747.6/18

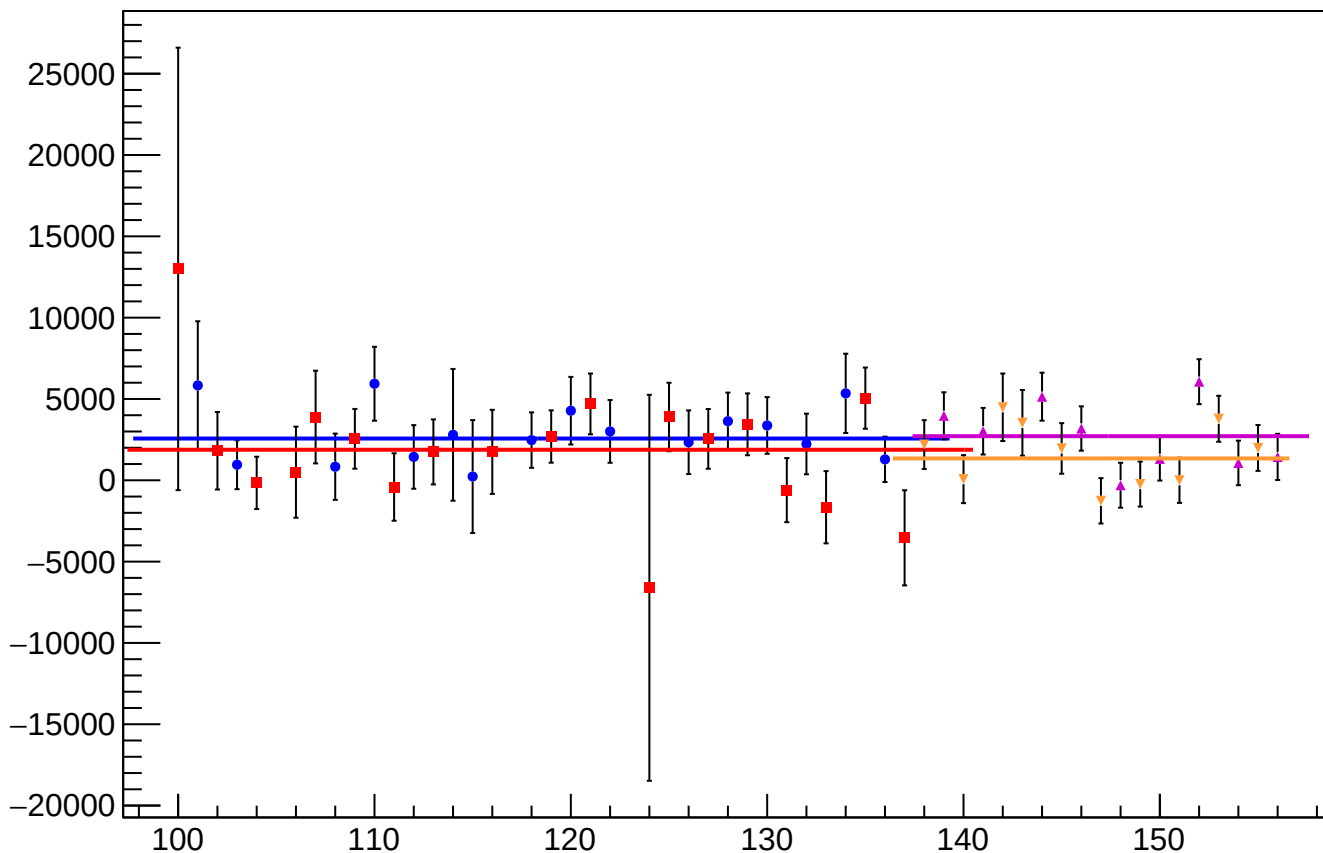
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF :3641414.7/24

Out: 0.000+/-0.000 χ^2/NDF :4620015.8/28

All: 0.000+/-0.000 χ^2/NDF : 9109676.7/53

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.460+/-495.364 χ^2/NDF : 9.0/15

Left Out: 1345.093+/-479.363 χ^2/NDF :13.6/9

Right Out: 1878.030+/-494.719 χ^2/NDF : 19.5/18

Left In: 2712.374+/-466.157 χ^2/NDF :17.6/8

Left: 2047.827+/-334.194 χ^2/NDF : 35.4/18

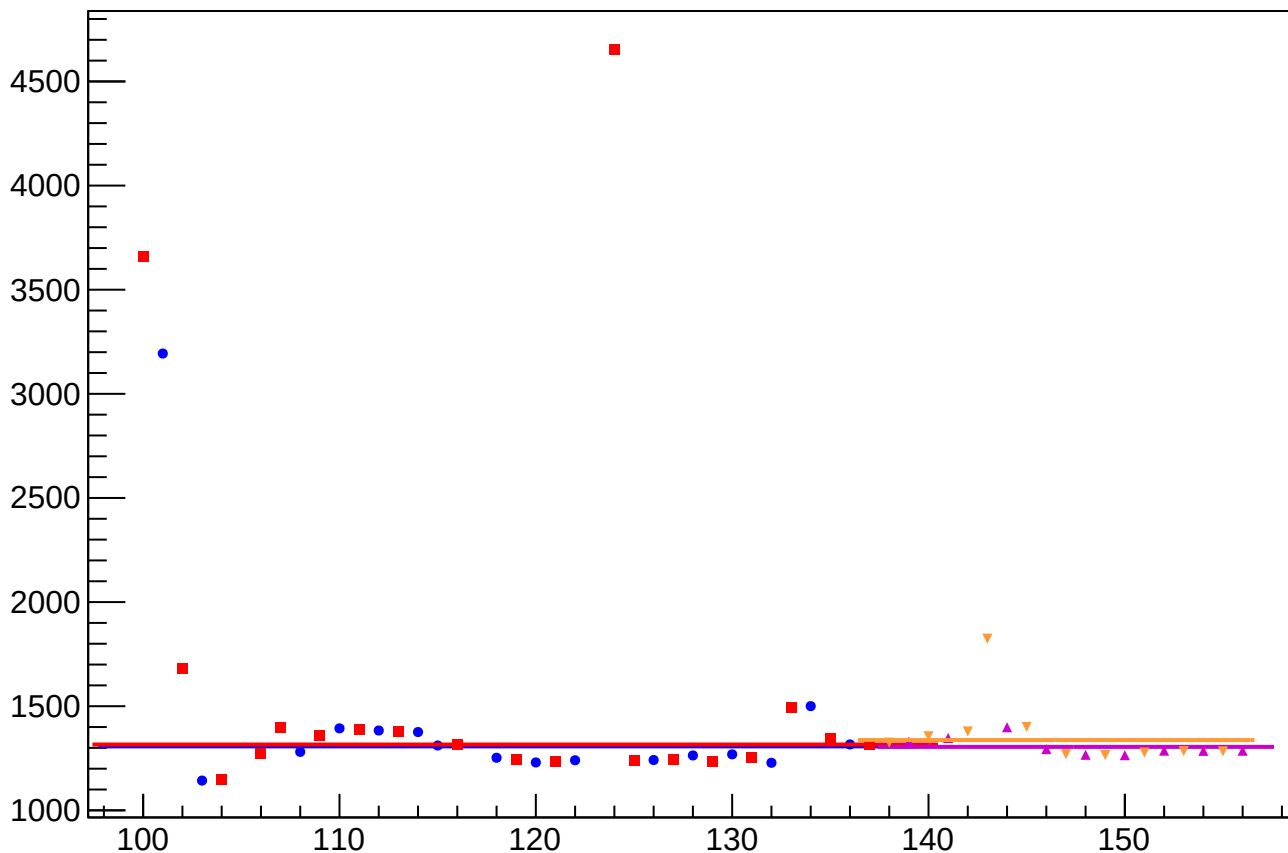
Right: 2222.296+/-350.047 χ^2/NDF : 29.6/34

In: 2644.315+/-339.479 χ^2/NDF :26.7/24

Out: 1603.162+/-344.262 χ^2/NDF :33.7/28

All: 2131.021+/-241.721 χ^2/NDF : 65.1/53

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: 1337.513+/-0.339 χ^2/NDF :140375.3/9

Right Out: 1315.999+/-0.349 χ^2/NDF : 326420.0/18

Left In: 1304.688+/-0.330 χ^2/NDF :15037.3/8

Left: 1320.642+/-0.236 χ^2/NDF : 160232.4/18

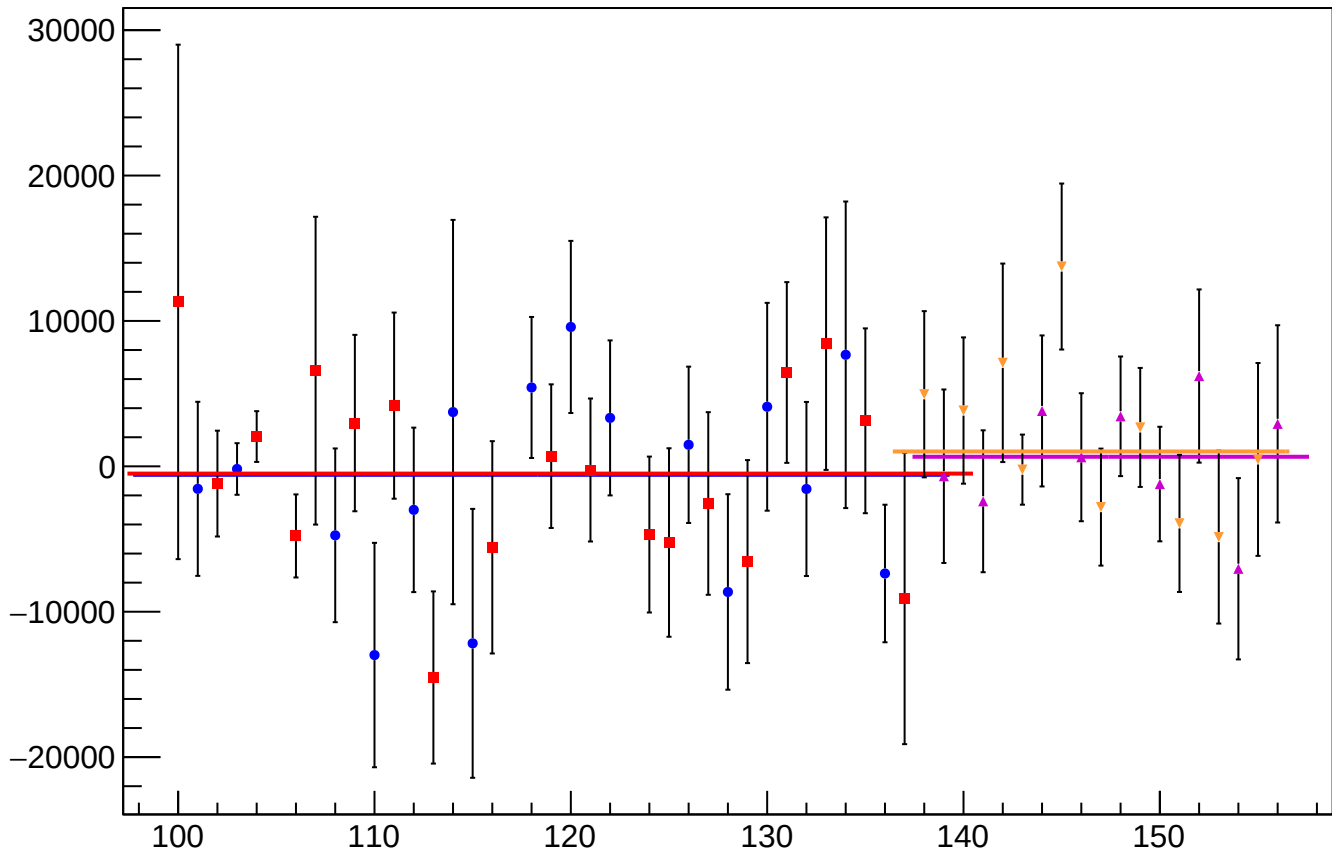
Right: 1311.551+/-0.247 χ^2/NDF : 842995.4/34

In: 1305.806+/-0.240 χ^2/NDF :531310.8/24

Out: 1327.066+/-0.243 χ^2/NDF :468751.6/28

All: 1316.301+/-0.171 χ^2/NDF : 1003934.5/53

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: 1020.683+/-1397.895 χ^2/NDF : 10.0/9

Right Out: -500.098+/-1055.434 χ^2/NDF : 17.7/18

Left In: 658.181+/-1671.478 χ^2/NDF : 4.0/8

Left: 871.488+/-1072.314 χ^2/NDF : 14.0/18

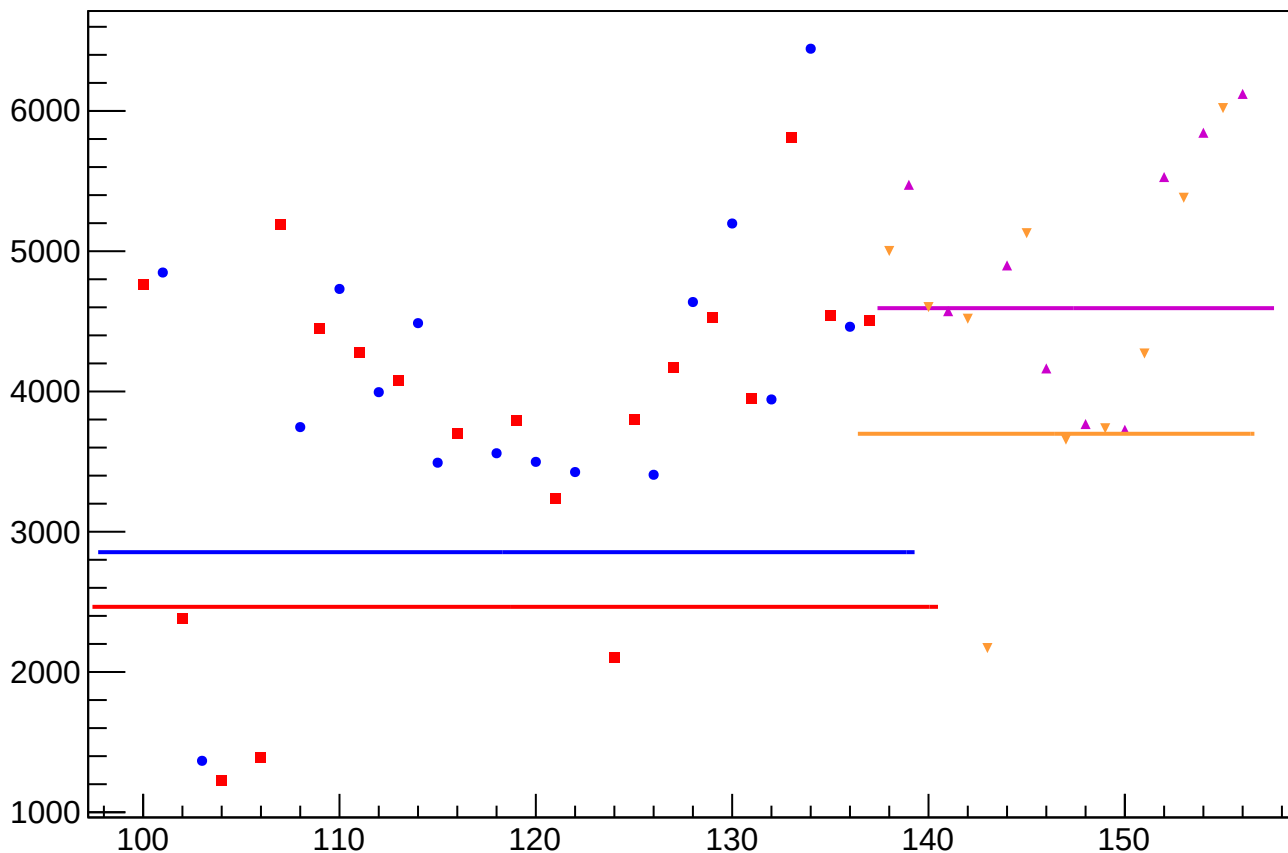
Right: -535.969+/-790.447 χ^2/NDF : 32.4/34

In: -163.369+/-970.960 χ^2/NDF : 19.1/24

Out: 52.064+/-842.314 χ^2/NDF : 28.4/28

All: -40.445+/-636.263 χ^2/NDF : 47.6/53

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: 3698.455+/-0.988 χ^2/NDF : 1561217.3/9

Right Out: 2464.593+/-0.746 χ^2/NDF : 3355947.0/18

Left In: 4594.026+/-1.182 χ^2/NDF : 478185.4/8

Left: 4067.045+/-0.758 χ^2/NDF : 2377253.1/18

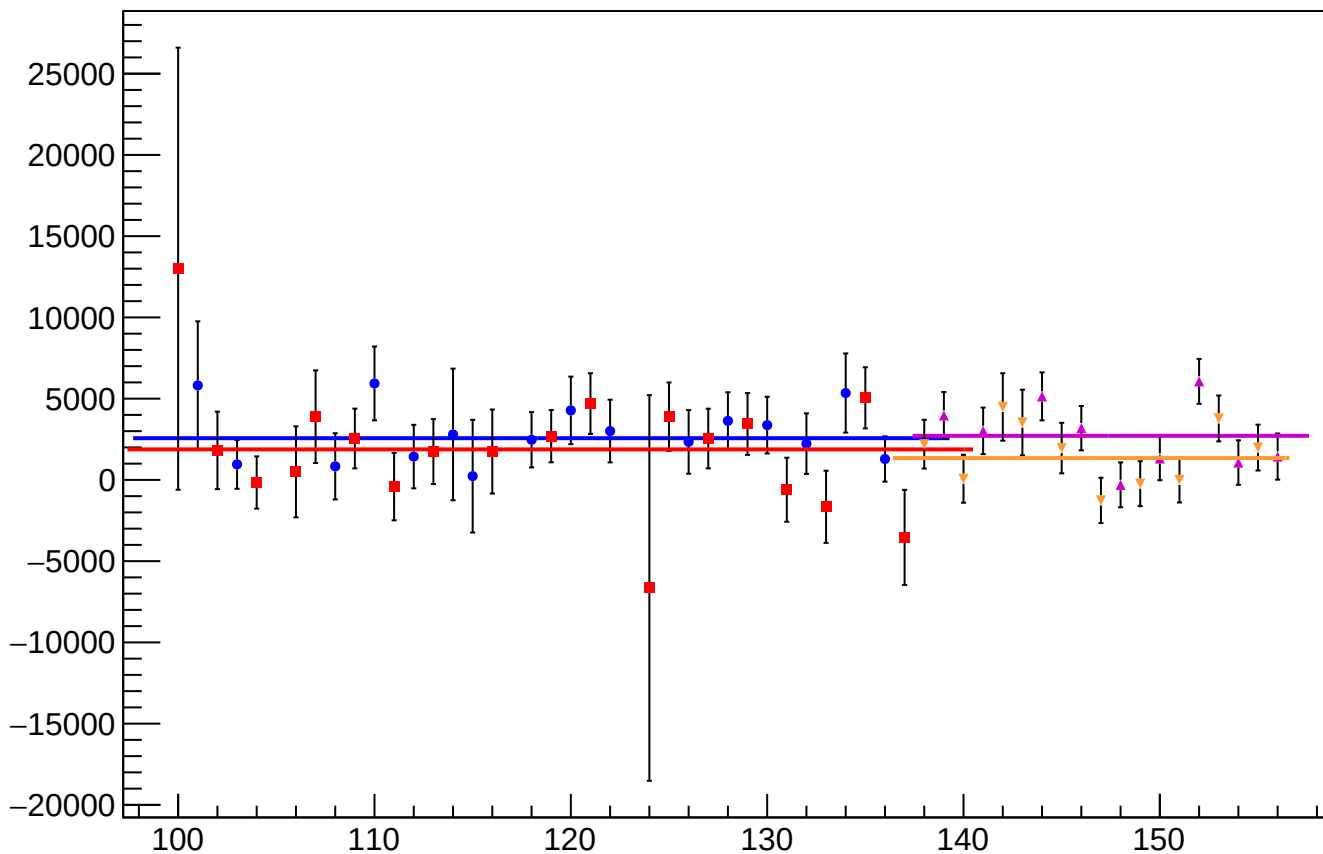
Right: 2635.714+/-0.559 χ^2/NDF : 6380500.9/34

In: 3441.360+/-0.687 χ^2/NDF : 4818541.2/24

Out: 2912.581+/-0.596 χ^2/NDF : 5909596.6/28

All: 3139.643+/-0.450 χ^2/NDF : 11066592.5/5

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: 1345.039+/-479.363 χ^2/NDF :13.6/9

Right Out: 1877.774+/-494.719 χ^2/NDF : 19.5/18

Left In: 2712.547+/-466.157 χ^2/NDF :17.6/8

Left: 2047.889+/-334.194 χ^2/NDF : 35.4/18

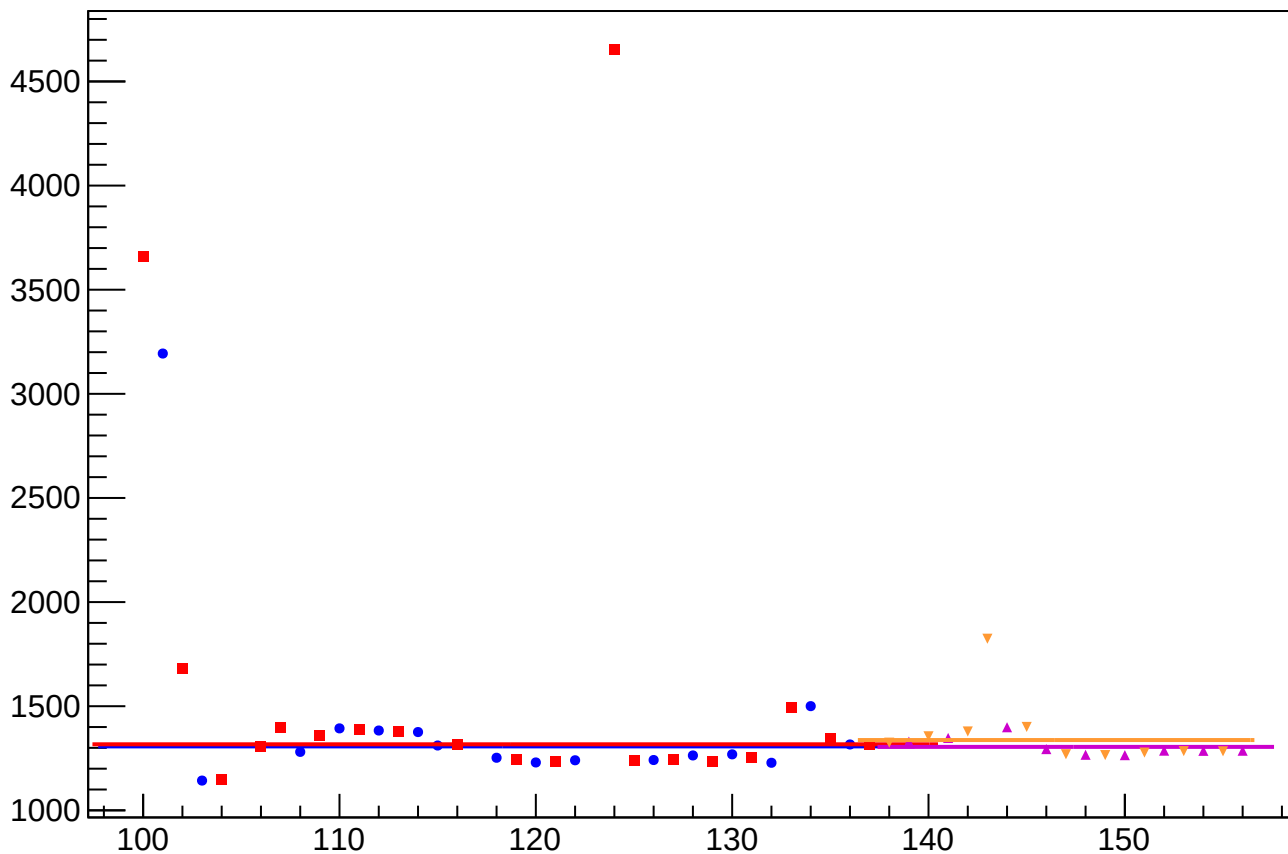
Right: 2222.028+/-350.047 χ^2/NDF : 29.6/34

In: 2644.275+/-339.479 χ^2/NDF :26.7/24

Out: 1603.010+/-344.262 χ^2/NDF :33.7/28

All: 2130.926+/-241.721 χ^2/NDF : 65.1/53

cor_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068 $\pm$ 0.350 χ^2 /NDF: 516250.6/15

Left Out: 1337.513 $\pm$ 0.339 χ^2 /NDF:140375.3/9

Right Out: 1317.128 $\pm$ 0.349 χ^2 /NDF: 325926.8/18

Left In: 1304.688 $\pm$ 0.330 χ^2 /NDF:15037.3/8

Left: 1320.642 $\pm$ 0.236 χ^2 /NDF: 160232.4/18

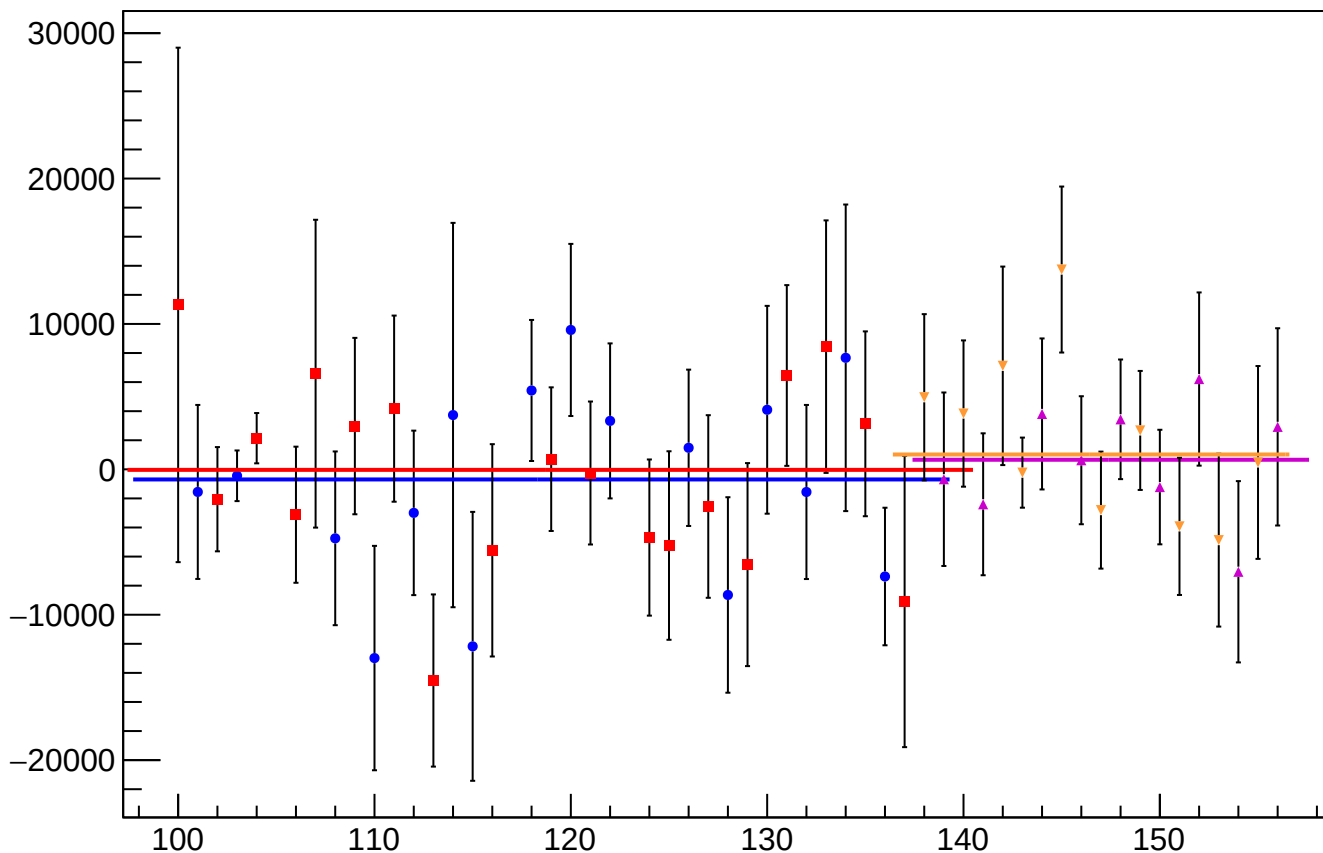
Right: 1312.114 $\pm$ 0.247 χ^2 /NDF: 842591.1/34

In: 1305.806 $\pm$ 0.240 χ^2 /NDF:531312.3/24

Out: 1327.622 $\pm$ 0.243 χ^2 /NDF:468056.9/28

All: 1316.572 $\pm$ 0.171 χ^2 /NDF: 1003445.2/53

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: 1020.641+/-1397.887 χ^2/NDF : 10.0/9

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: 658.284+/-1671.478 χ^2/NDF : 4.0/8

Left: 871.507+/-1072.311 χ^2/NDF : 14.0/18

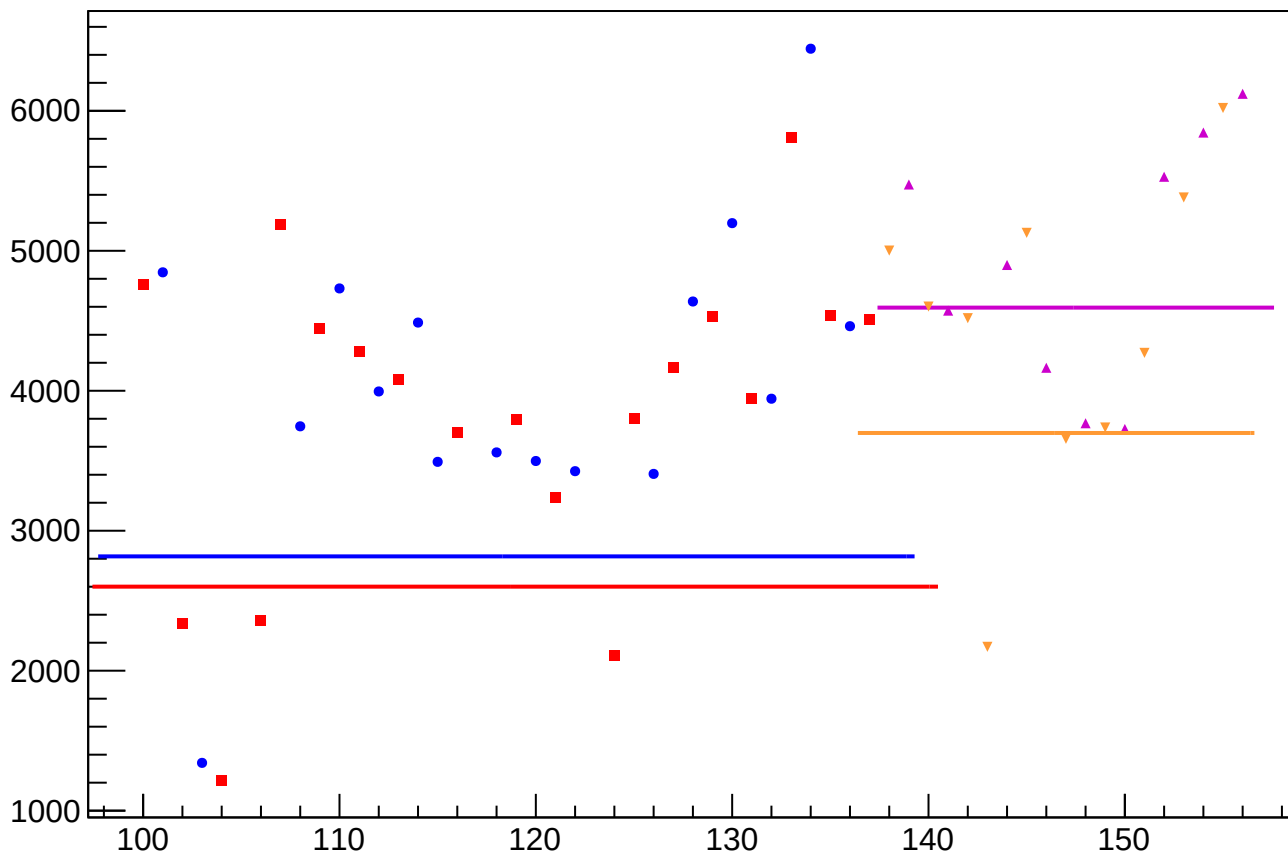
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: -243.807+/-965.311 χ^2/NDF : 19.1/24

Out: 367.192+/-863.580 χ^2/NDF : 26.3/28

All: 95.574+/-643.615 χ^2/NDF : 45.6/53

asym_atl_avg_atr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784 $\pm$ 0.836 χ^2 /NDF: 3007570.0/15

Left Out: 3698.430 $\pm$ 0.988 χ^2 /NDF: 1561266.5/9

Right Out: 2600.524 $\pm$ 0.777 χ^2 /NDF: 3080771.9/18

Left In: 4594.026 $\pm$ 1.182 χ^2 /NDF: 478188.5/8

Left: 4067.027 $\pm$ 0.758 χ^2 /NDF: 2377325.5/18

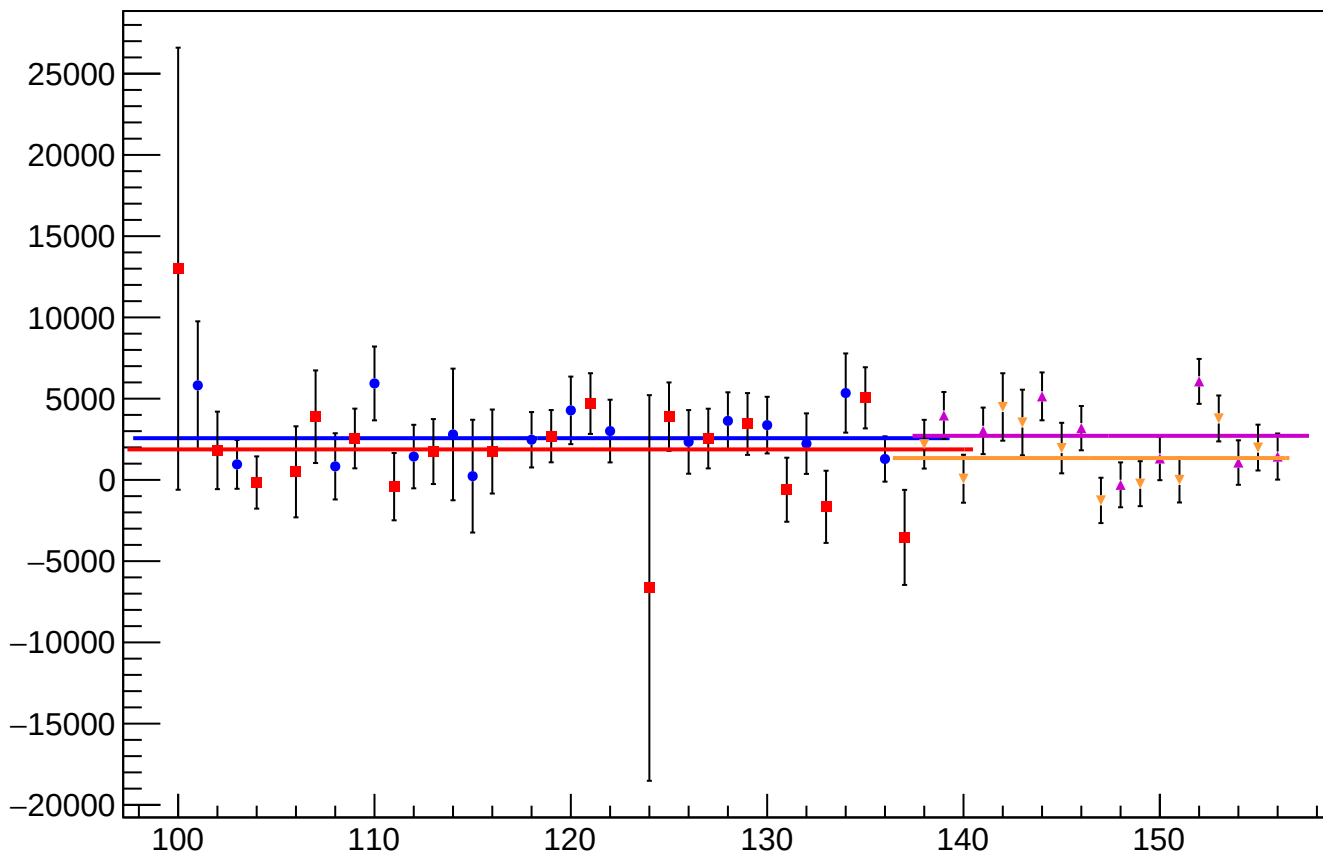
Right: 2700.678 $\pm$ 0.569 χ^2 /NDF: 6124259.3/34

In: 3409.545 $\pm$ 0.683 χ^2 /NDF: 4992724.2/24

Out: 3019.536 $\pm$ 0.611 χ^2 /NDF: 5404911.9/28

All: 3192.913 $\pm$ 0.455 χ^2 /NDF: 10578975.4/5

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.180 $\pm$ 495.364 χ^2 /NDF: 9.0/15

Left Out: 1345.039 $\pm$ 479.363 χ^2 /NDF:13.6/9

Right Out: 1877.774 $\pm$ 494.719 χ^2 /NDF: 19.5/18

Left In: 2712.547 $\pm$ 466.157 χ^2 /NDF:17.6/8

Left: 2047.889 $\pm$ 334.194 χ^2 /NDF: 35.4/18

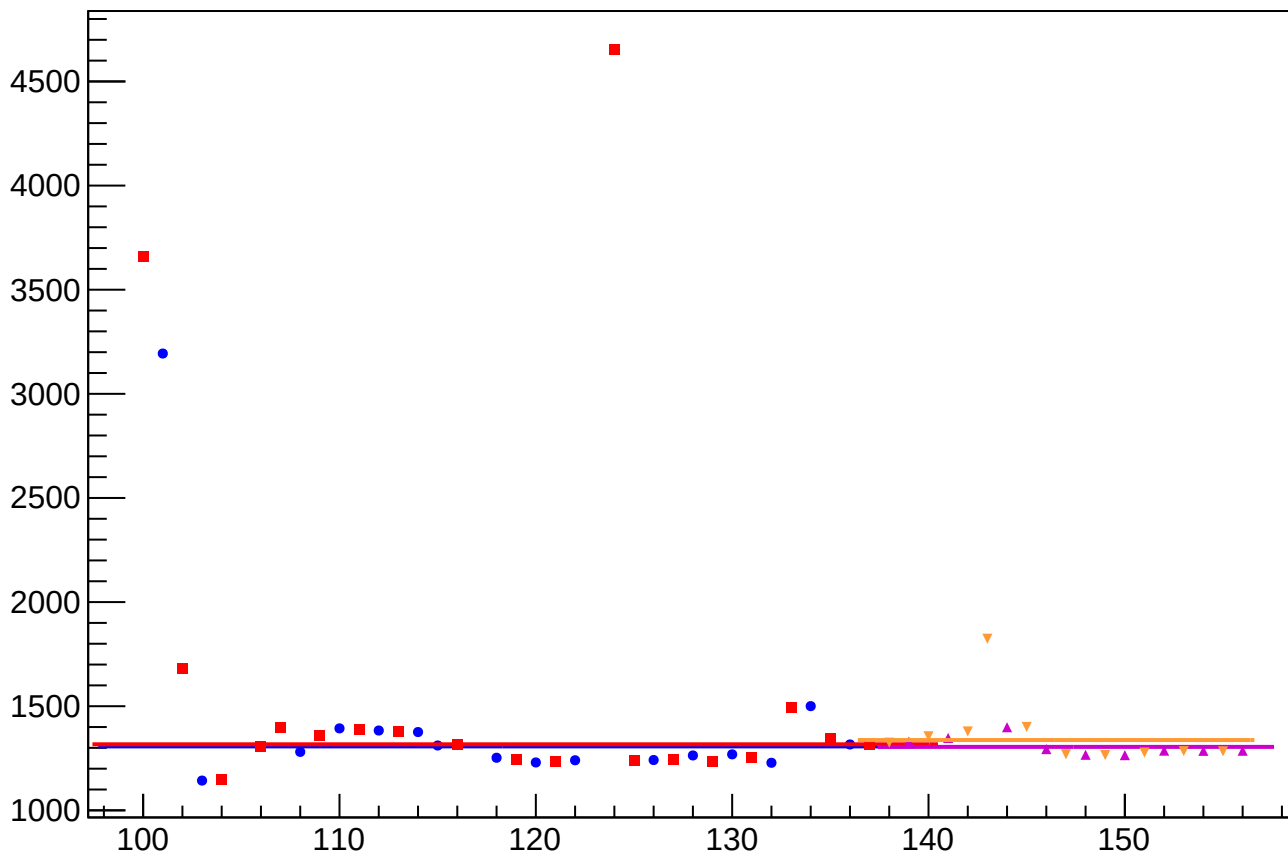
Right: 2222.028 $\pm$ 350.047 χ^2 /NDF: 29.6/34

In: 2644.275 $\pm$ 339.479 χ^2 /NDF:26.7/24

Out: 1603.010 $\pm$ 344.262 χ^2 /NDF:33.7/28

All: 2130.926 $\pm$ 241.721 χ^2 /NDF: 65.1/53

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: 1337.513+/-0.339 χ^2/NDF :140375.3/9

Right Out: 1317.128+/-0.349 χ^2/NDF : 325926.8/18

Left In: 1304.688+/-0.330 χ^2/NDF :15037.3/8

Left: 1320.642+/-0.236 χ^2/NDF : 160232.4/18

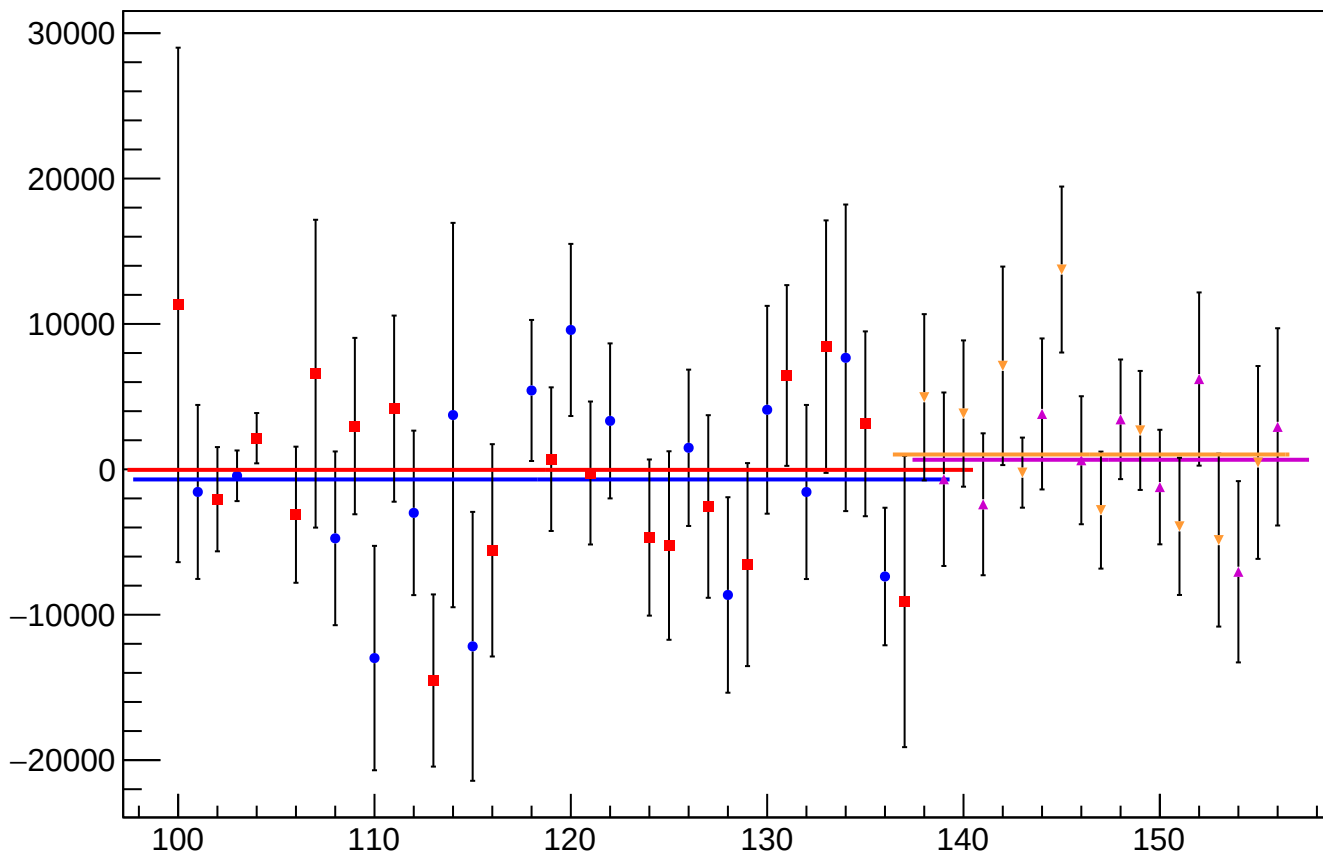
Right: 1312.114+/-0.247 χ^2/NDF : 842591.1/34

In: 1305.806+/-0.240 χ^2/NDF :531312.3/24

Out: 1327.622+/-0.243 χ^2/NDF :468056.9/28

All: 1316.572+/-0.171 χ^2/NDF : 1003445.2/53

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: 1020.641+/-1397.887 χ^2/NDF :10.0/9

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: 658.284+/-1671.478 χ^2/NDF :4.0/8

Left: 871.507+/-1072.311 χ^2/NDF : 14.0/18

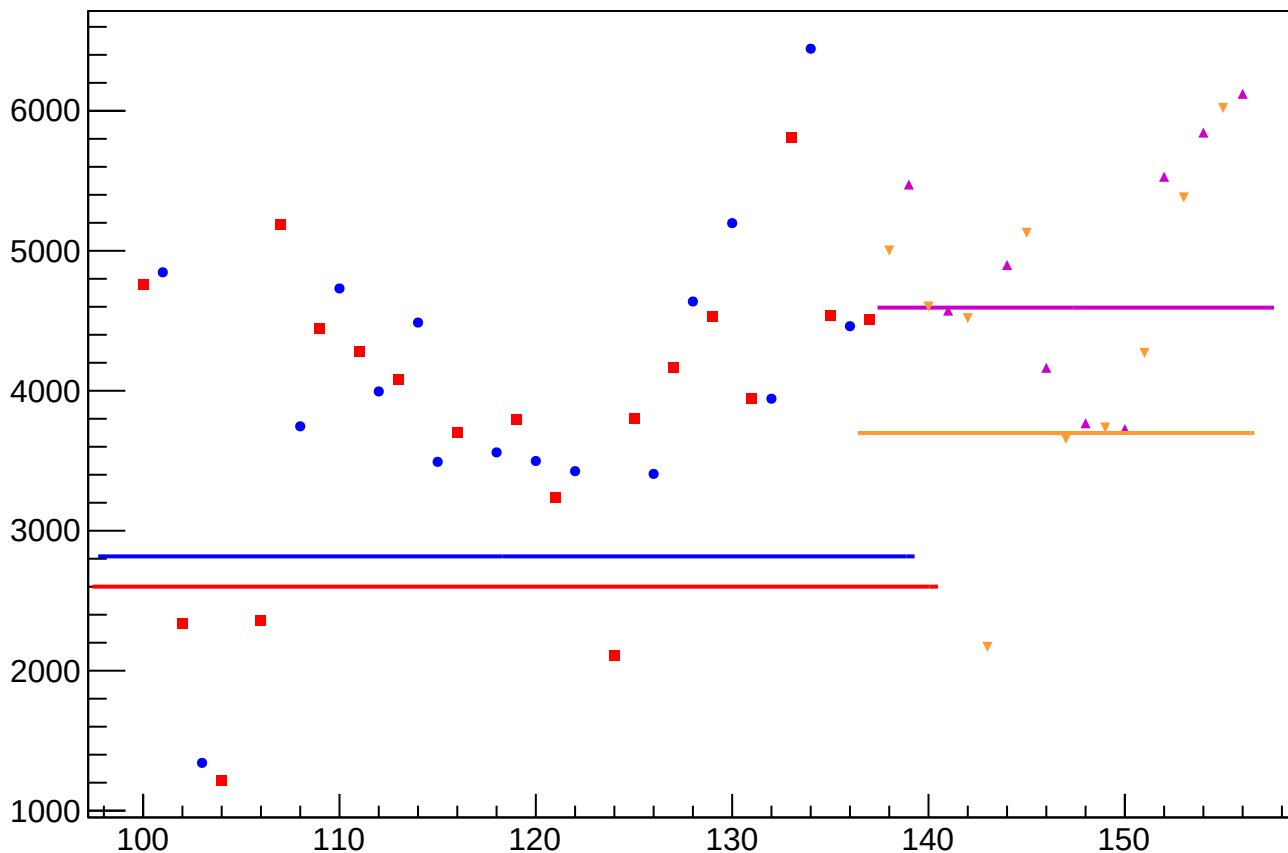
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: -243.807+/-965.311 χ^2/NDF :19.1/24

Out: 367.192+/-863.580 χ^2/NDF :26.3/28

All: 95.574+/-643.615 χ^2/NDF : 45.6/53

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784 $\pm$ 0.836 χ^2 /NDF: 3007570.0/15

Left Out: 3698.430 $\pm$ 0.988 χ^2 /NDF:1561266.5/9

Right Out: 2600.524 $\pm$ 0.777 χ^2 /NDF: 3080771.9/18

Left In: 4594.026 $\pm$ 1.182 χ^2 /NDF:478188.5/8

Left: 4067.027 $\pm$ 0.758 χ^2 /NDF: 2377325.5/18

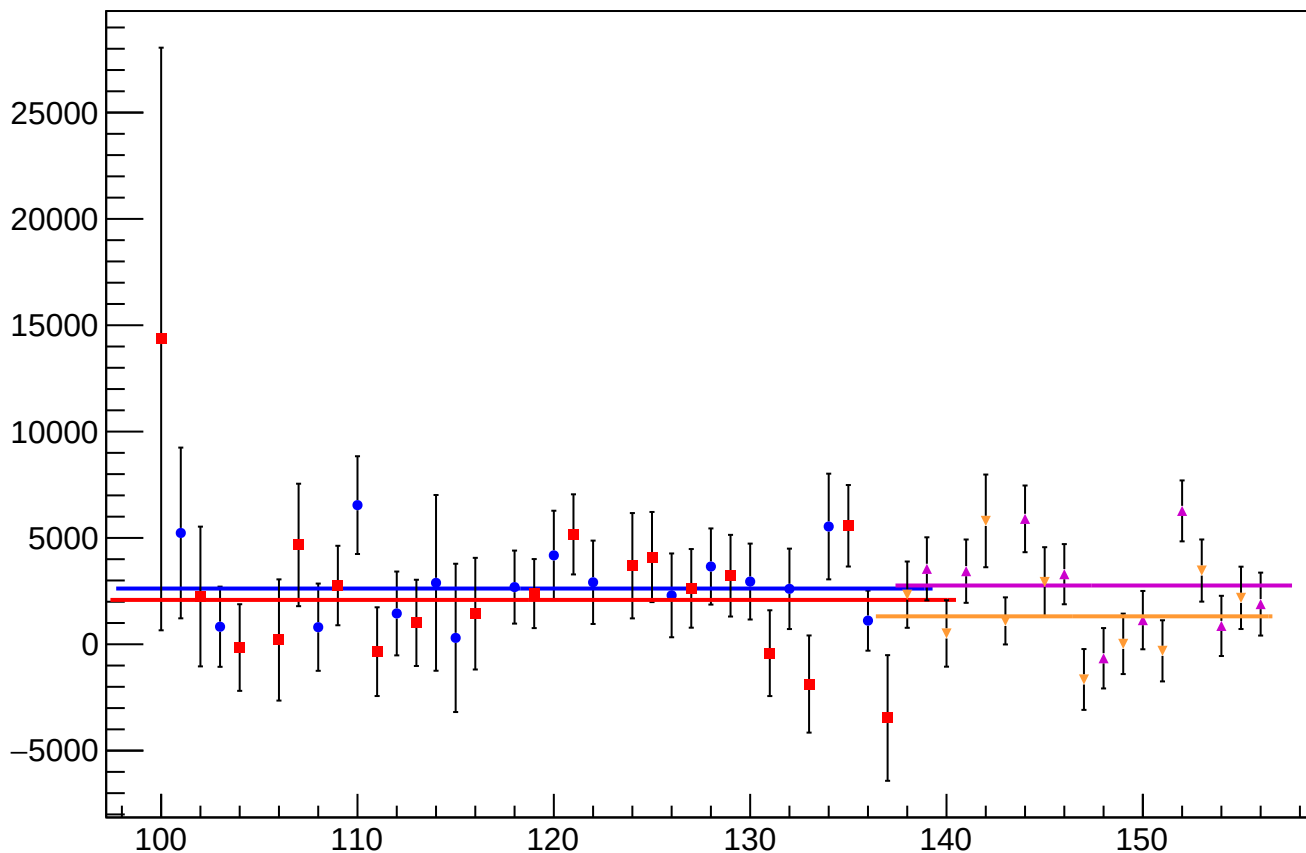
Right: 2700.678 $\pm$ 0.569 χ^2 /NDF: 6124259.3/34

In: 3409.545 $\pm$ 0.683 χ^2 /NDF:4992724.2/24

Out: 3019.536 $\pm$ 0.611 χ^2 /NDF:5404911.9/28

All: 3192.913 $\pm$ 0.455 χ^2 /NDF: 10578975.4/5

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: 1313.545 $\pm$ 465.045 χ^2 /NDF:14.9/9

Right Out: 2085.606 $\pm$ 504.873 χ^2 /NDF: 20.9/18

Left In: 2763.425 $\pm$ 483.117 χ^2 /NDF:20.0/8

Left: 2010.861 $\pm$ 335.043 χ^2 /NDF: 39.5/18

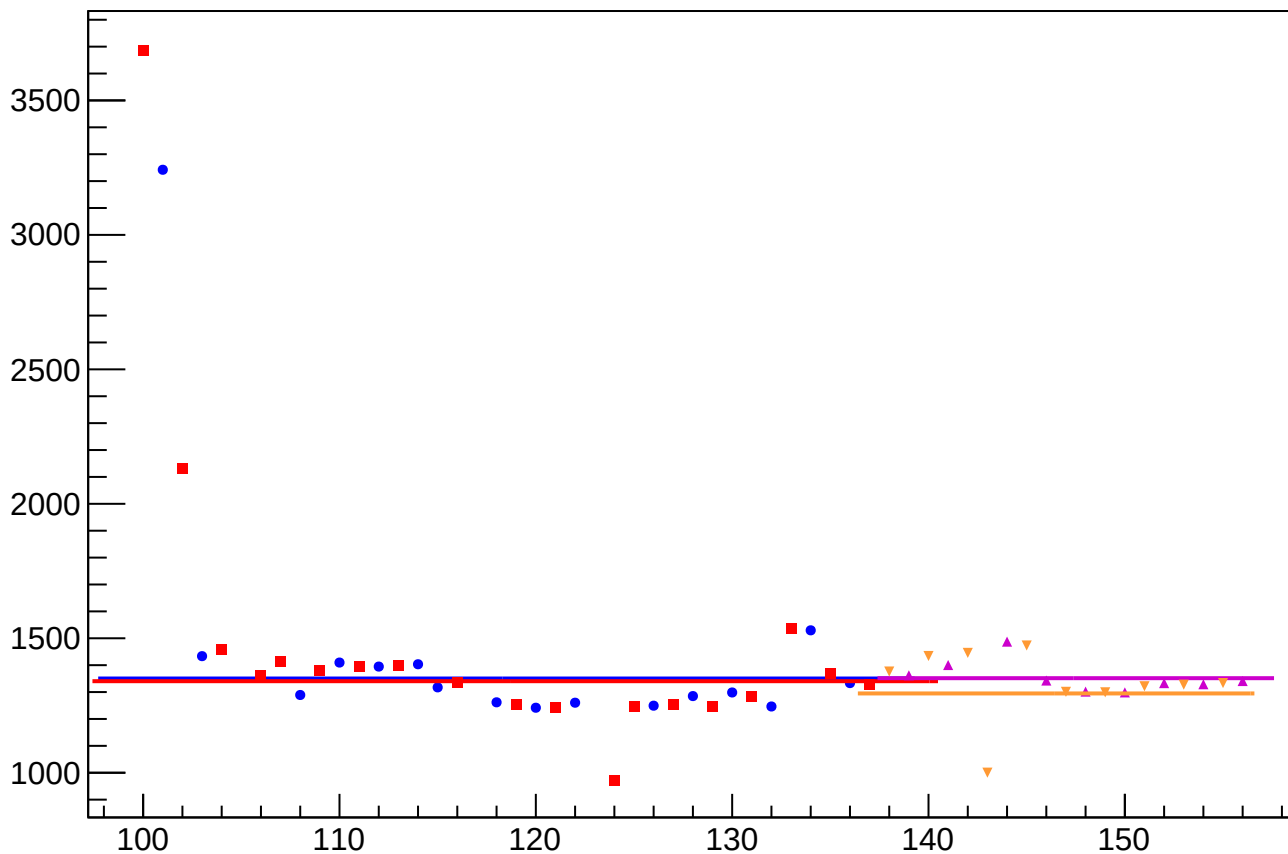
Right: 2349.577 $\pm$ 359.323 χ^2 /NDF: 30.8/34

In: 2696.056 $\pm$ 351.224 χ^2 /NDF:29.3/24

Out: 1667.926 $\pm$ 342.051 χ^2 /NDF:37.1/28

All: 2168.390 $\pm$ 245.046 χ^2 /NDF: 70.8/53

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: 1294.863+/-0.329 χ^2/NDF :199409.0/9

Right Out: 1340.429+/-0.357 χ^2/NDF : 272183.5/18

Left In: 1351.628+/-0.342 χ^2/NDF :23750.7/8

Left: 1322.164+/-0.237 χ^2/NDF : 237491.2/18

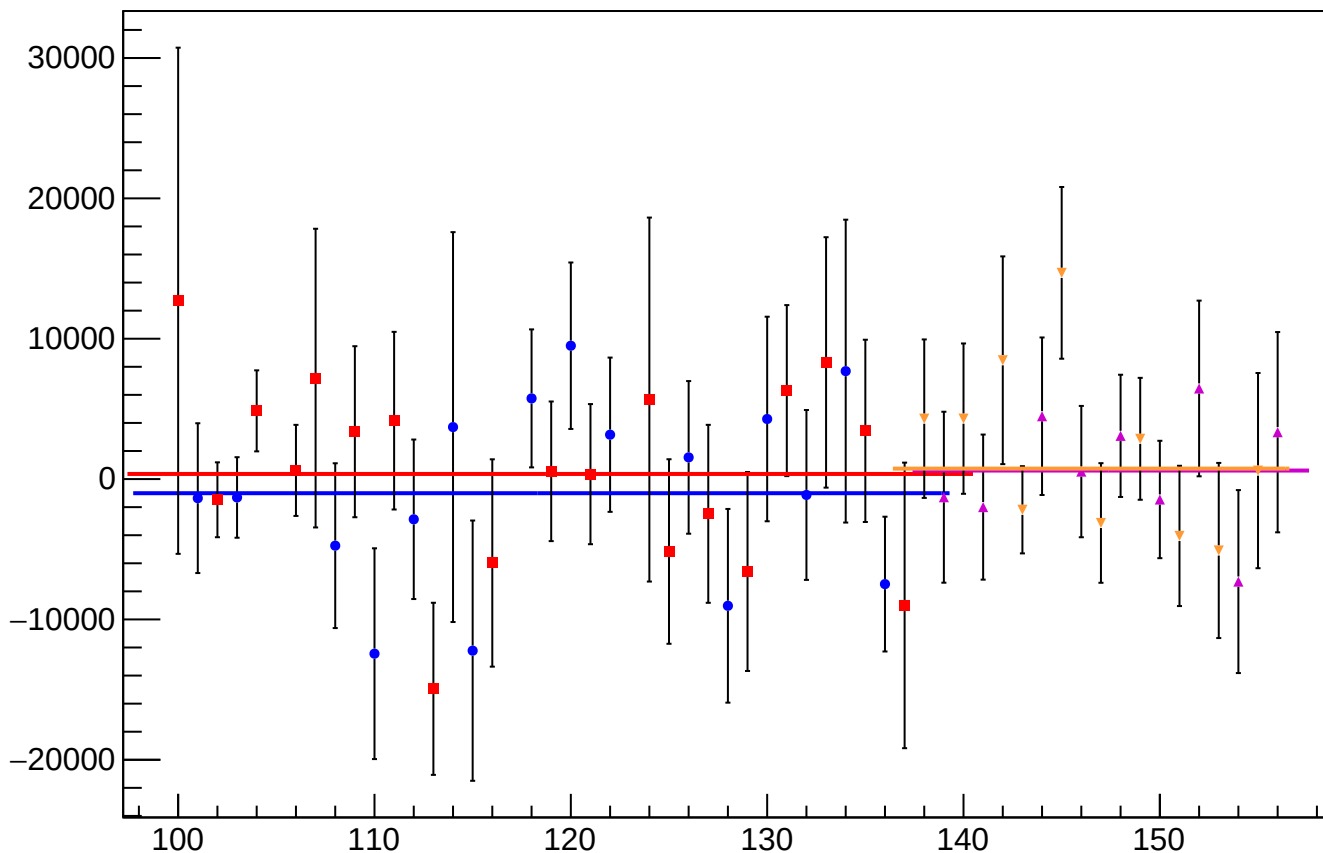
Right: 1345.331+/-0.254 χ^2/NDF : 766617.4/34

In: 1351.034+/-0.248 χ^2/NDF :517808.1/24

Out: 1315.792+/-0.242 χ^2/NDF :480411.7/28

All: 1332.942+/-0.173 χ^2/NDF : 1008557.4/53

asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.752 ± 1404.458 χ^2/NDF : 14.6/15

Left Out: 745.162 ± 1563.063 χ^2/NDF : 10.9/9

Right Out: 364.493 ± 1202.498 χ^2/NDF : 16.2/18

Left In: 607.753 ± 1766.460 χ^2/NDF : 3.9/8

Left: 684.820 ± 1170.589 χ^2/NDF : 14.8/18

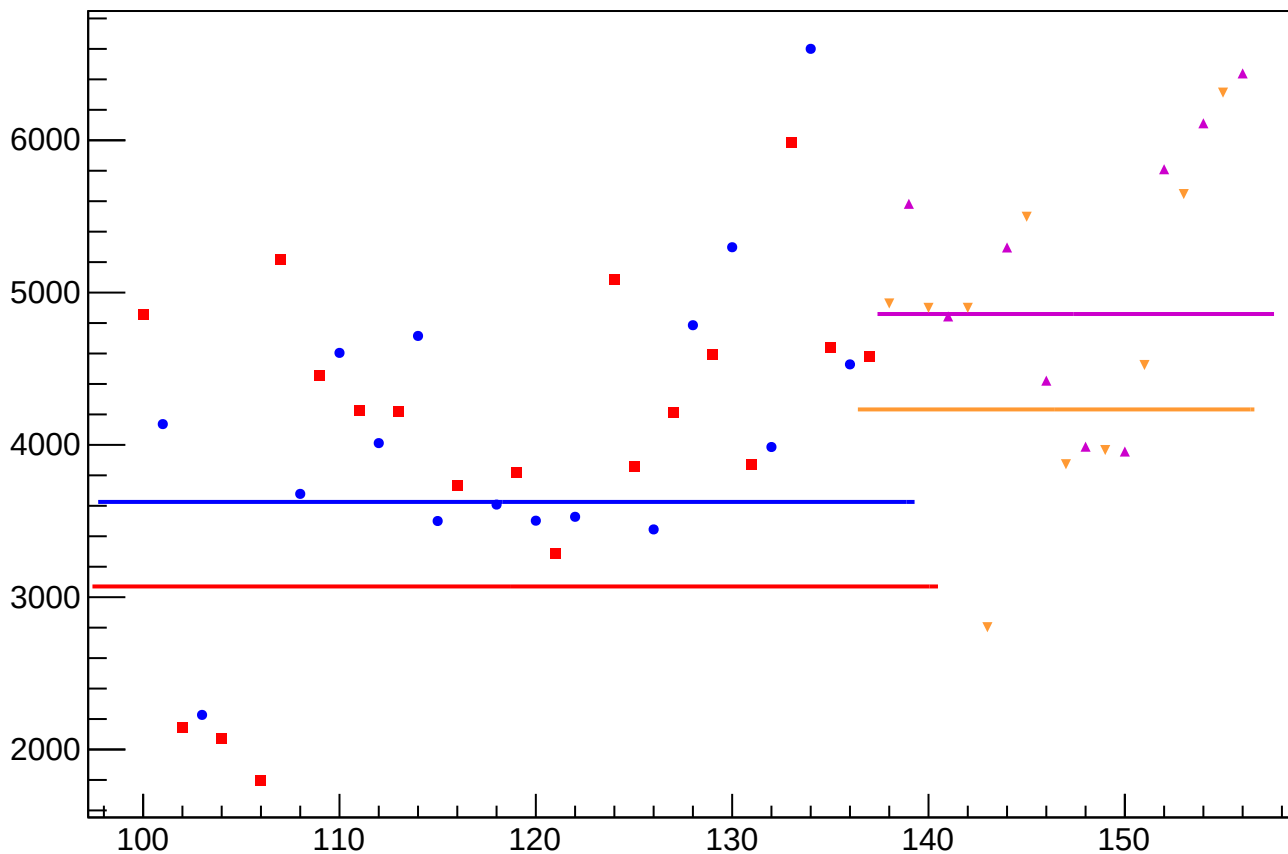
Right: -215.533 ± 913.430 χ^2/NDF : 31.4/34

In: -381.445 ± 1099.337 χ^2/NDF : 19.0/24

Out: 506.027 ± 953.087 χ^2/NDF : 27.1/28

All: 125.210 ± 720.131 χ^2/NDF : 46.5/53

asym_atl_avg_atr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.512 $\pm$ 0.993 χ^2 /NDF: 944905.4/15

Left Out: 4232.776 $\pm$ 1.105 χ^2 /NDF: 897105.8/9

Right Out: 3070.442 $\pm$ 0.850 χ^2 /NDF: 1838659.1/18

Left In: 4859.352 $\pm$ 1.249 χ^2 /NDF: 449163.1/8

Left: 4507.930 $\pm$ 0.828 χ^2 /NDF: 1487401.0/18

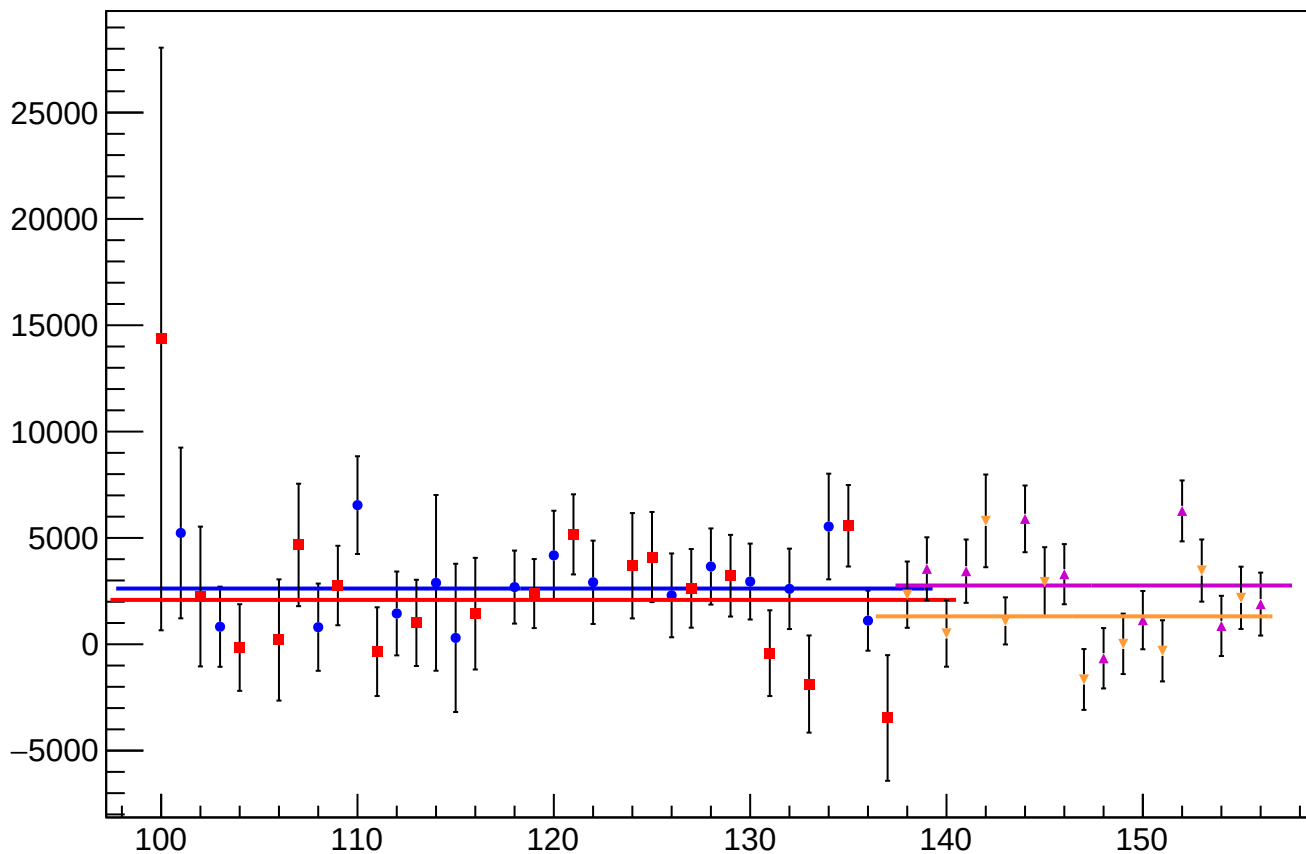
Right: 3305.233 $\pm$ 0.646 χ^2 /NDF: 2963820.1/34

In: 4103.385 $\pm$ 0.777 χ^2 /NDF: 1991907.4/24

Out: 3502.601 $\pm$ 0.674 χ^2 /NDF: 3430525.4/28

All: 3760.399 $\pm$ 0.509 χ^2 /NDF: 5763440.2/53

eigen_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: 1313.544 $\pm$ 465.046 χ^2 /NDF:14.9/9

Right Out: 2085.608 $\pm$ 504.873 χ^2 /NDF: 20.9/18

Left In: 2763.423 $\pm$ 483.117 χ^2 /NDF:20.0/8

Left: 2010.860 $\pm$ 335.044 χ^2 /NDF: 39.5/18

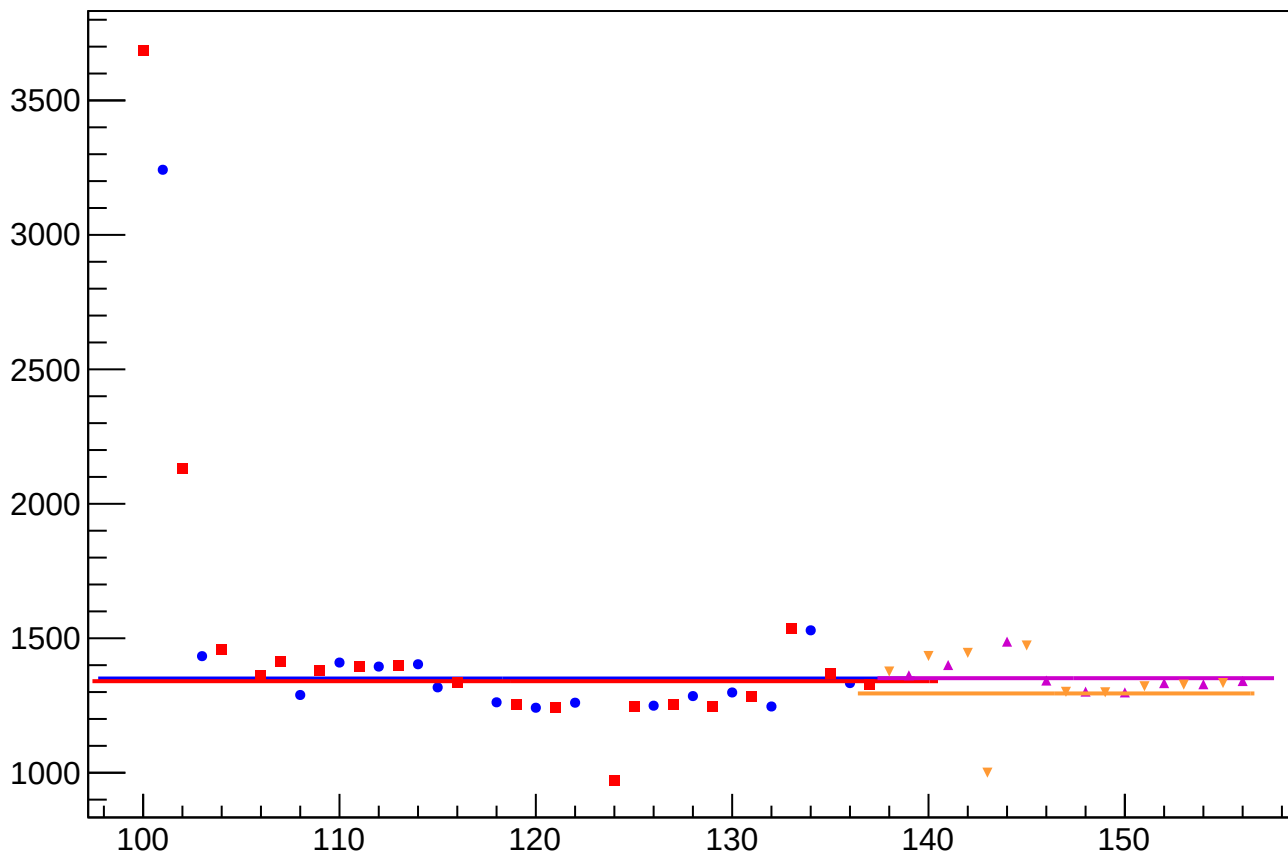
Right: 2349.579 $\pm$ 359.323 χ^2 /NDF: 30.8/34

In: 2696.054 $\pm$ 351.224 χ^2 /NDF:29.3/24

Out: 1667.927 $\pm$ 342.052 χ^2 /NDF:37.1/28

All: 2168.390 $\pm$ 245.046 χ^2 /NDF: 70.8/53

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: 1294.864+/-0.329 χ^2/NDF :199409.3/9

Right Out: 1340.428+/-0.357 χ^2/NDF : 272182.5/18

Left In: 1351.629+/-0.342 χ^2/NDF :23750.9/8

Left: 1322.165+/-0.237 χ^2/NDF : 237491.7/18

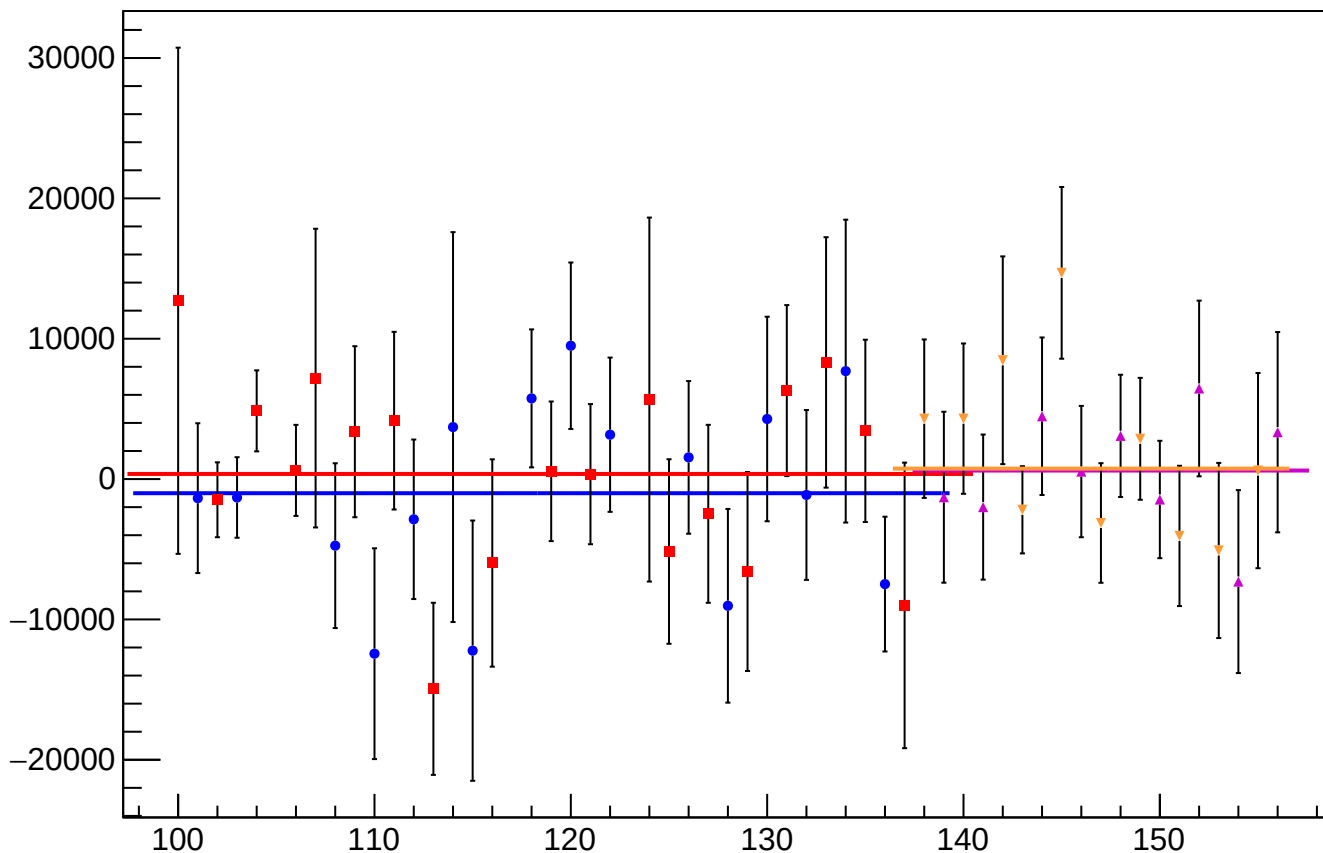
Right: 1345.330+/-0.254 χ^2/NDF : 766616.6/34

In: 1351.035+/-0.248 χ^2/NDF :517808.5/24

Out: 1315.792+/-0.242 χ^2/NDF :480410.4/28

All: 1332.942+/-0.173 χ^2/NDF : 1008556.5/53

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.742 ± 1404.455 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 745.158 ± 1563.065 $\chi^2/\text{NDF}: 10.9/9$

Right Out: 364.495 ± 1202.495 $\chi^2/\text{NDF}: 16.2/18$

Left In: 607.751 ± 1766.462 $\chi^2/\text{NDF}: 3.9/8$

Left: 684.818 ± 1170.591 $\chi^2/\text{NDF}: 14.8/18$

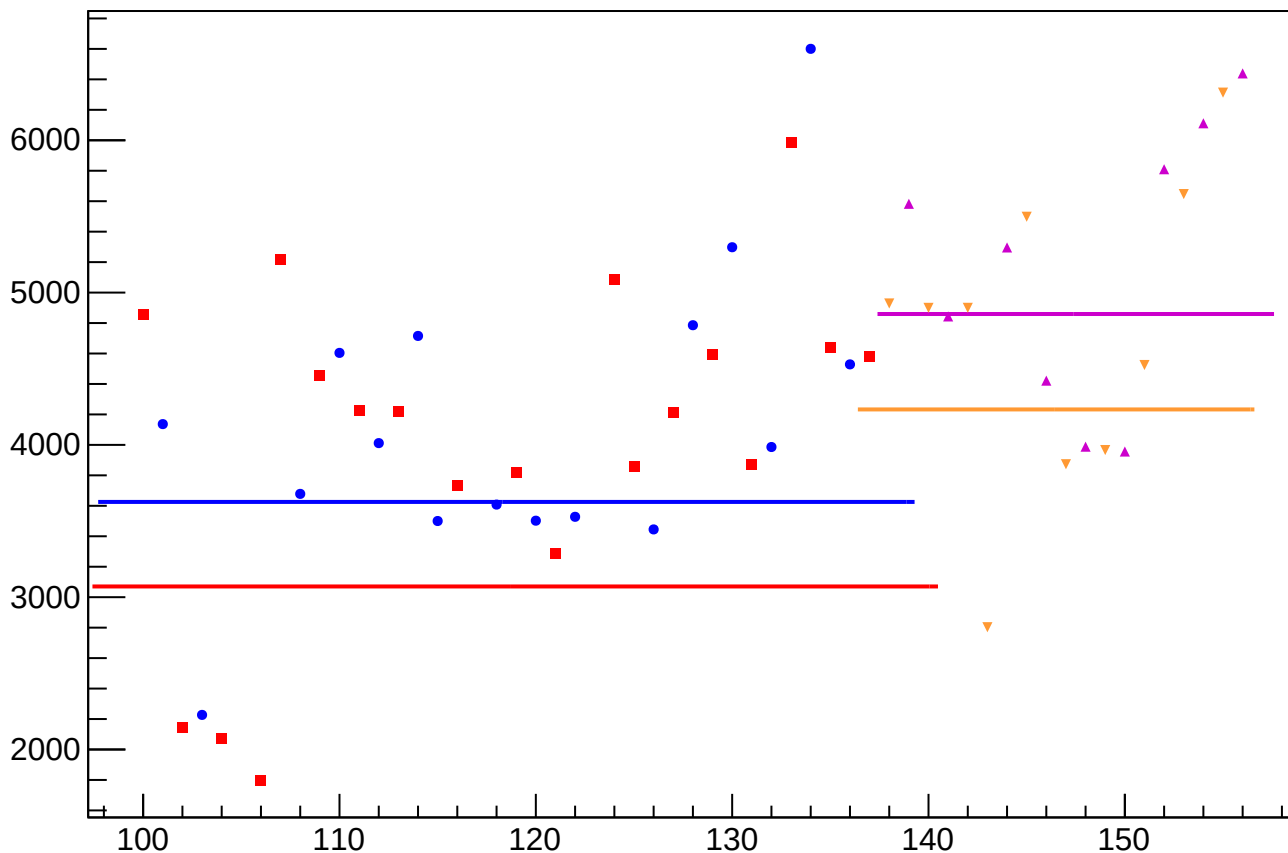
Right: -215.528 ± 913.428 $\chi^2/\text{NDF}: 31.4/34$

In: -381.442 ± 1099.336 $\chi^2/\text{NDF}: 19.0/24$

Out: 506.026 ± 953.086 $\chi^2/\text{NDF}: 27.1/28$

All: 125.210 ± 720.130 $\chi^2/\text{NDF}: 46.5/53$

asym_atl_avg_atr_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.503 $\pm$ 0.993 χ^2 /NDF: 944907.6/15

Left Out: 4232.782 $\pm$ 1.105 χ^2 /NDF: 897105.3/9

Right Out: 3070.434 $\pm$ 0.850 χ^2 /NDF: 183862.0/18

Left In: 4859.358 $\pm$ 1.249 χ^2 /NDF: 449163.5/8

Left: 4507.936 $\pm$ 0.828 χ^2 /NDF: 1487400.6/18

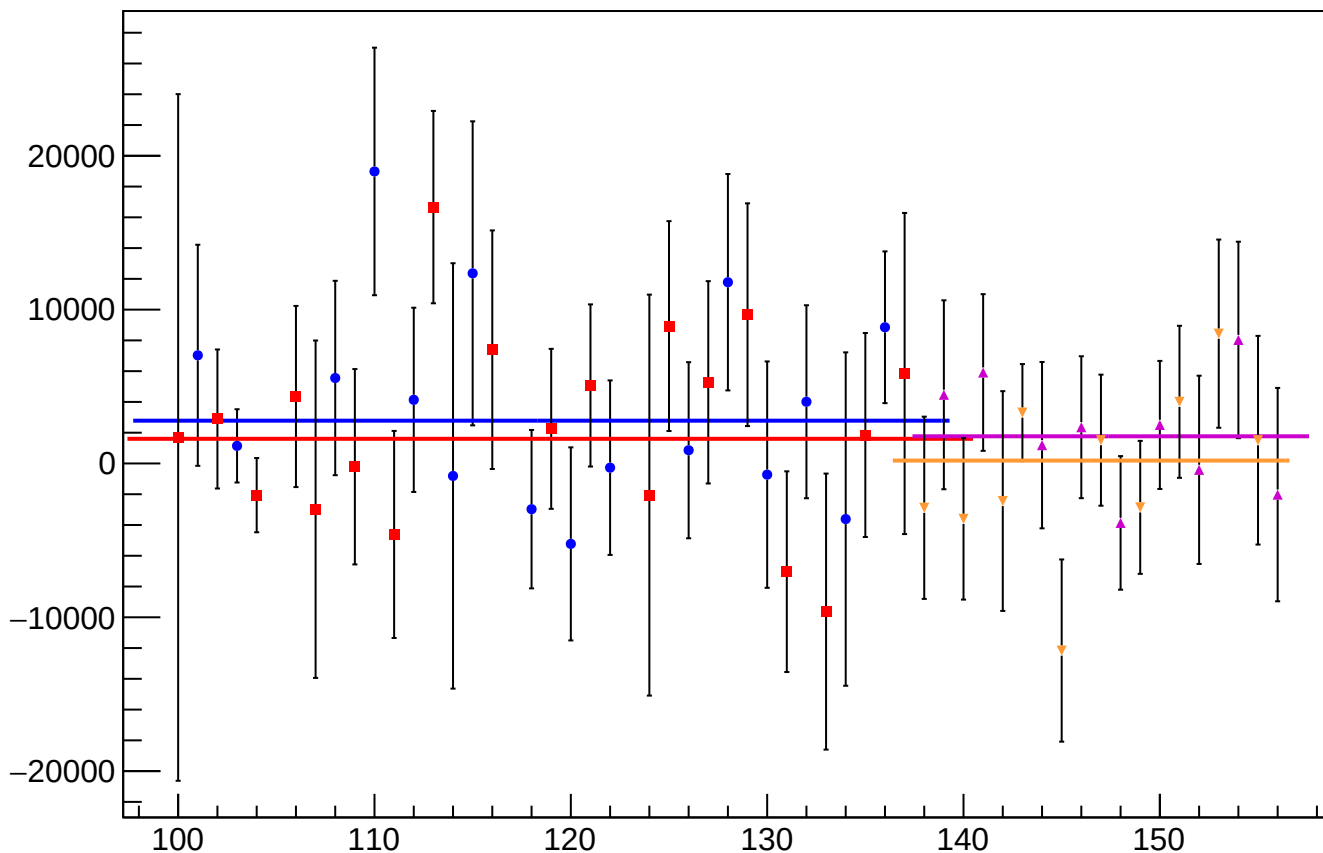
Right: 3305.224 $\pm$ 0.646 χ^2 /NDF: 2963825.9/34

In: 4103.380 $\pm$ 0.777 χ^2 /NDF: 1991924.8/24

Out: 3502.595 $\pm$ 0.674 χ^2 /NDF: 3430545.4/28

All: 3760.394 $\pm$ 0.509 χ^2 /NDF: 5763478.4/53

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: 188.557+/-1558.995 χ^2/NDF : 9.3/9

Right Out: 1602.626+/-1337.018 χ^2/NDF : 16.8/18

Left In: 1766.071+/-1743.150 χ^2/NDF : 4.0/8

Left: 889.612+/-1162.048 χ^2/NDF : 13.7/18

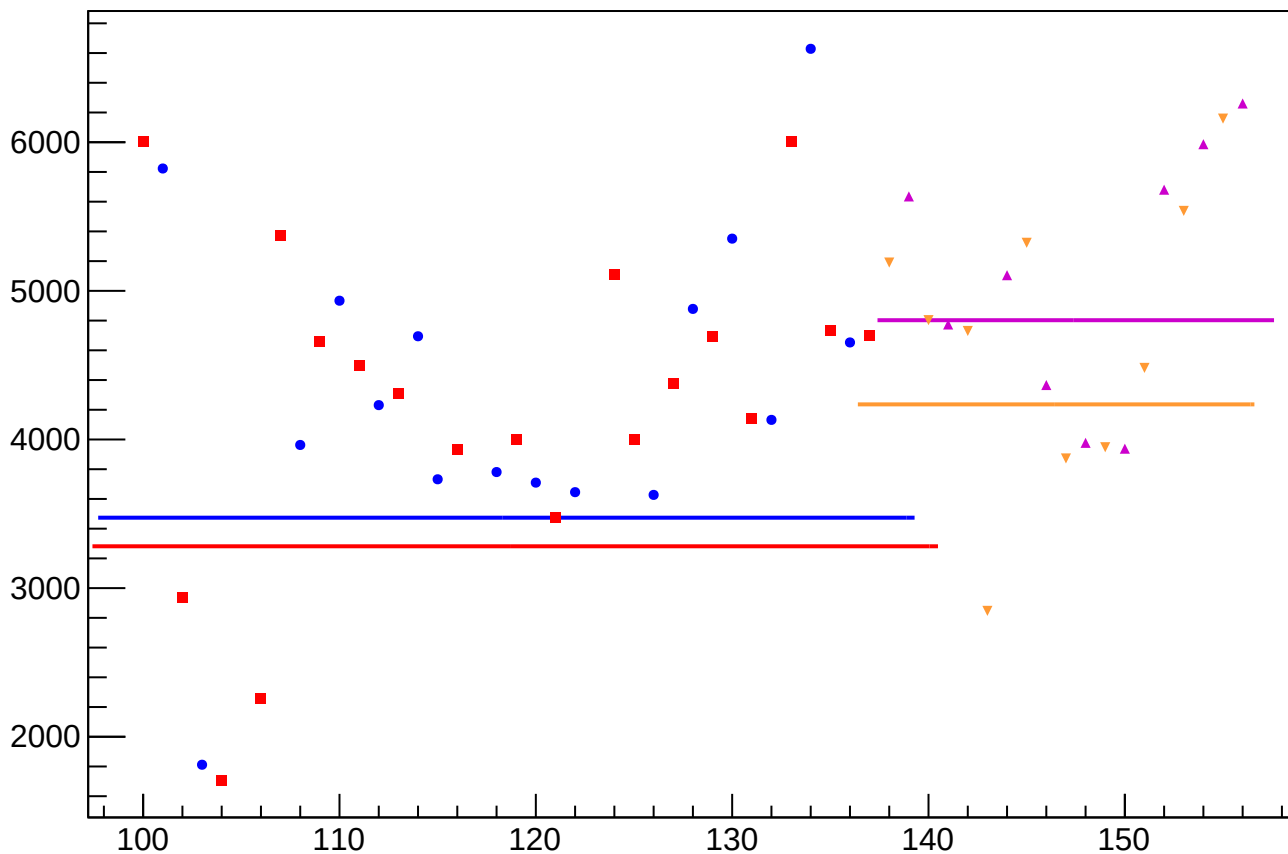
Right: 2169.106+/-963.414 χ^2/NDF : 30.3/34

In: 2386.617+/-1086.513 χ^2/NDF : 17.4/24

Out: 1003.346+/-1014.903 χ^2/NDF : 26.6/28

All: 1647.898+/-741.669 χ^2/NDF : 44.8/53

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3473.898 $\pm$ 0.982 χ^2 /NDF: 1843964.2/15

Left Out: 4236.232 $\pm$ 1.102 χ^2 /NDF: 819739.1/9

Right Out: 3281.478 $\pm$ 0.932 χ^2 /NDF: 1875493.9/18

Left In: 4802.545 $\pm$ 1.233 χ^2 /NDF: 417879.8/8

Left: 4487.904 $\pm$ 0.822 χ^2 /NDF: 1354901.4/18

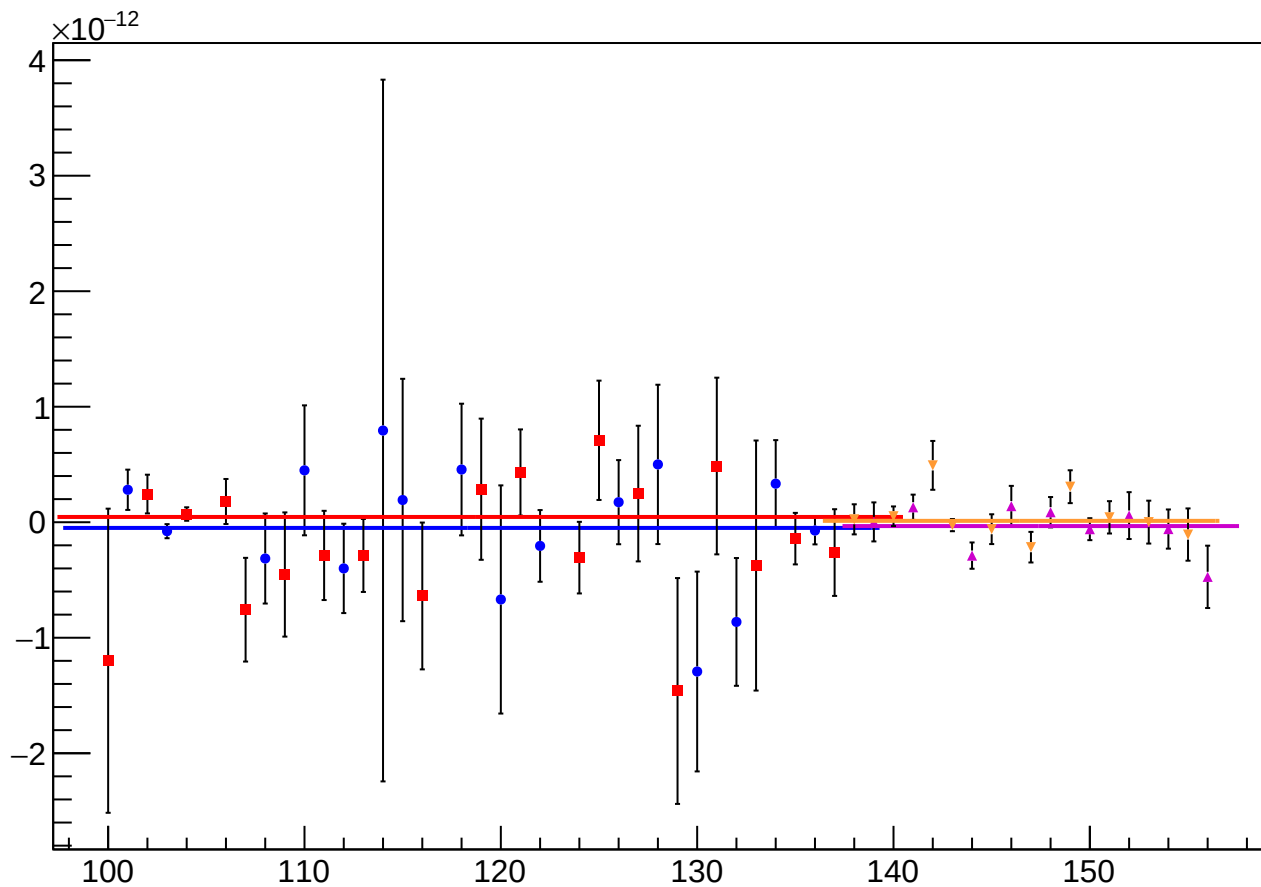
Right: 3372.669 $\pm$ 0.676 χ^2 /NDF: 3739637.8/34

In: 3990.083 $\pm$ 0.768 χ^2 /NDF: 2972359.1/24

Out: 3679.699 $\pm$ 0.712 χ^2 /NDF: 3132476.2/28

All: 3823.096 $\pm$ 0.522 χ^2 /NDF: 6192646.4/53

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 :13.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 18.5/18

Left In: -0.000+/-0.000 χ^2/NDF :12.1/8

Left: -0.000+/-0.000 χ^2/NDF : 26.5/18

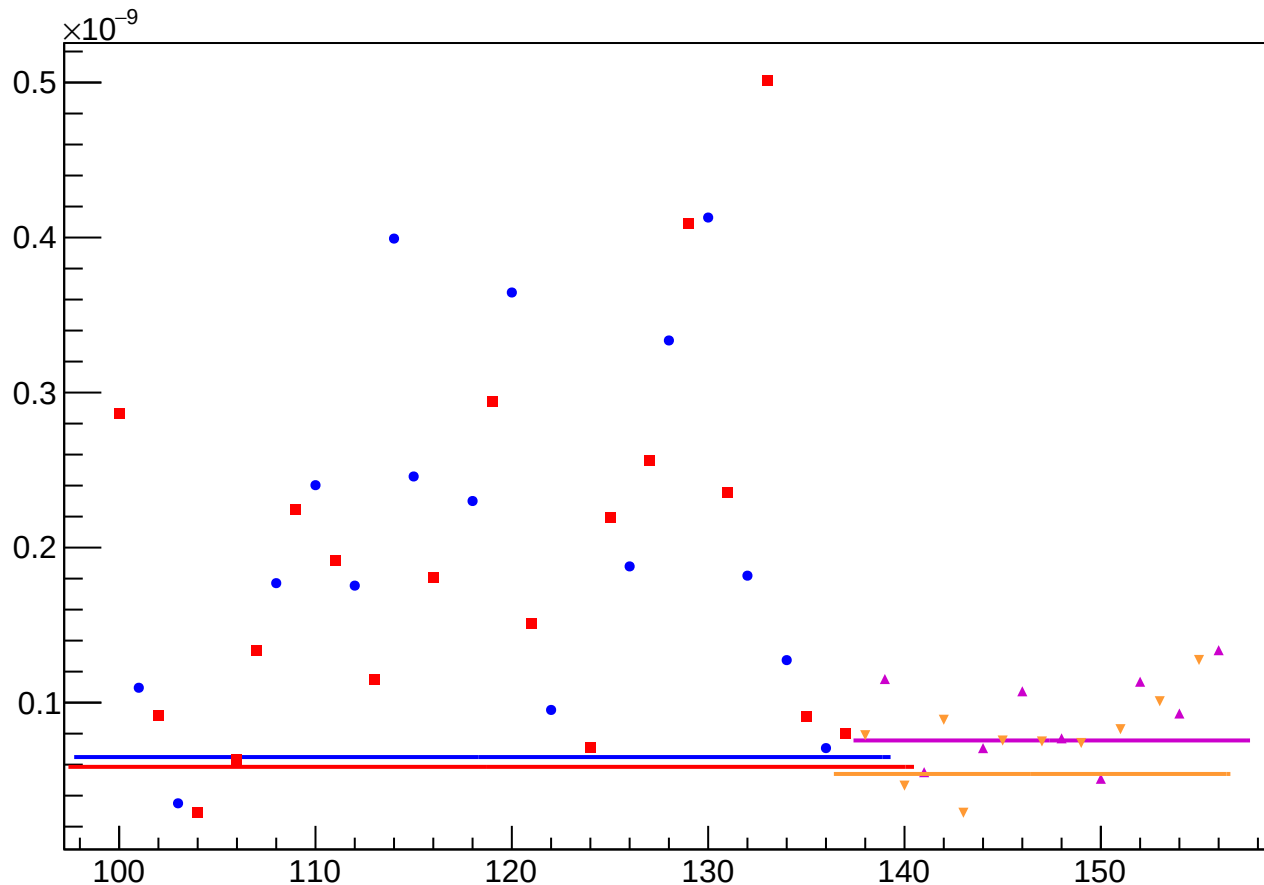
Right: -0.000+/-0.000 χ^2/NDF : 34.2/34

In: -0.000+/-0.000 χ^2/NDF :25.9/24

Out: 0.000+/-0.000 χ^2/NDF :32.7/28

All: -0.000+/-0.000 χ^2/NDF : 60.7/53

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 :1161344.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2855105.2/18

Left In: 0.000+/-0.000 χ^2/NDF :568549.6/8

Left: 0.000+/-0.000 χ^2/NDF : 2011661.1/18

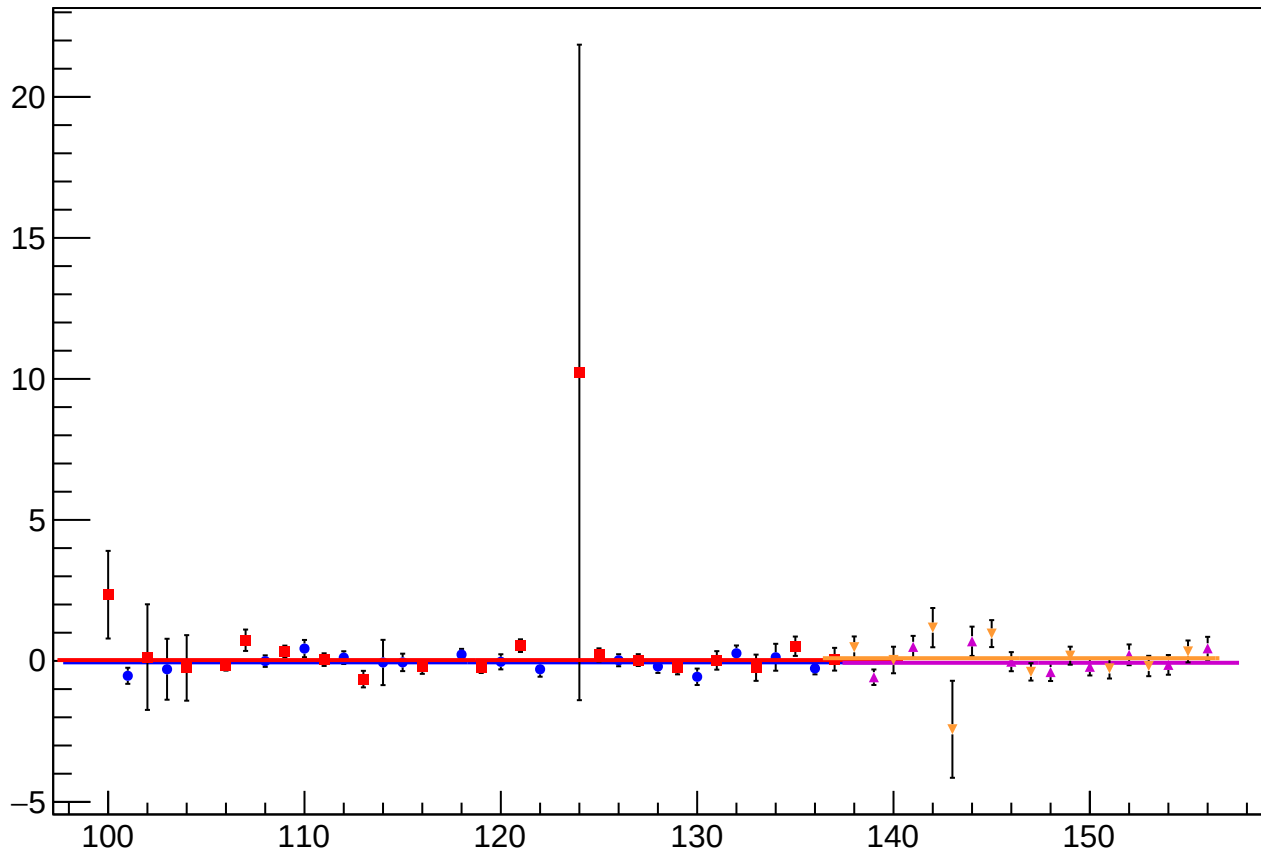
Right: 0.000+/-0.000 χ^2/NDF : 5465312.1/34

In: 0.000+/-0.000 χ^2/NDF :3212647.1/24

Out: 0.000+/-0.000 χ^2/NDF :4028601.4/28

All: 0.000+/-0.000 χ^2/NDF : 7476976.4/53

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 χ^2/NDF : 14.9/15

Left Out: 0.096 ± 0.129 χ^2/NDF : 13.5/9

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.067 ± 0.116 χ^2/NDF : 11.2/8

Left: 0.006 ± 0.086 χ^2/NDF : 25.6/18

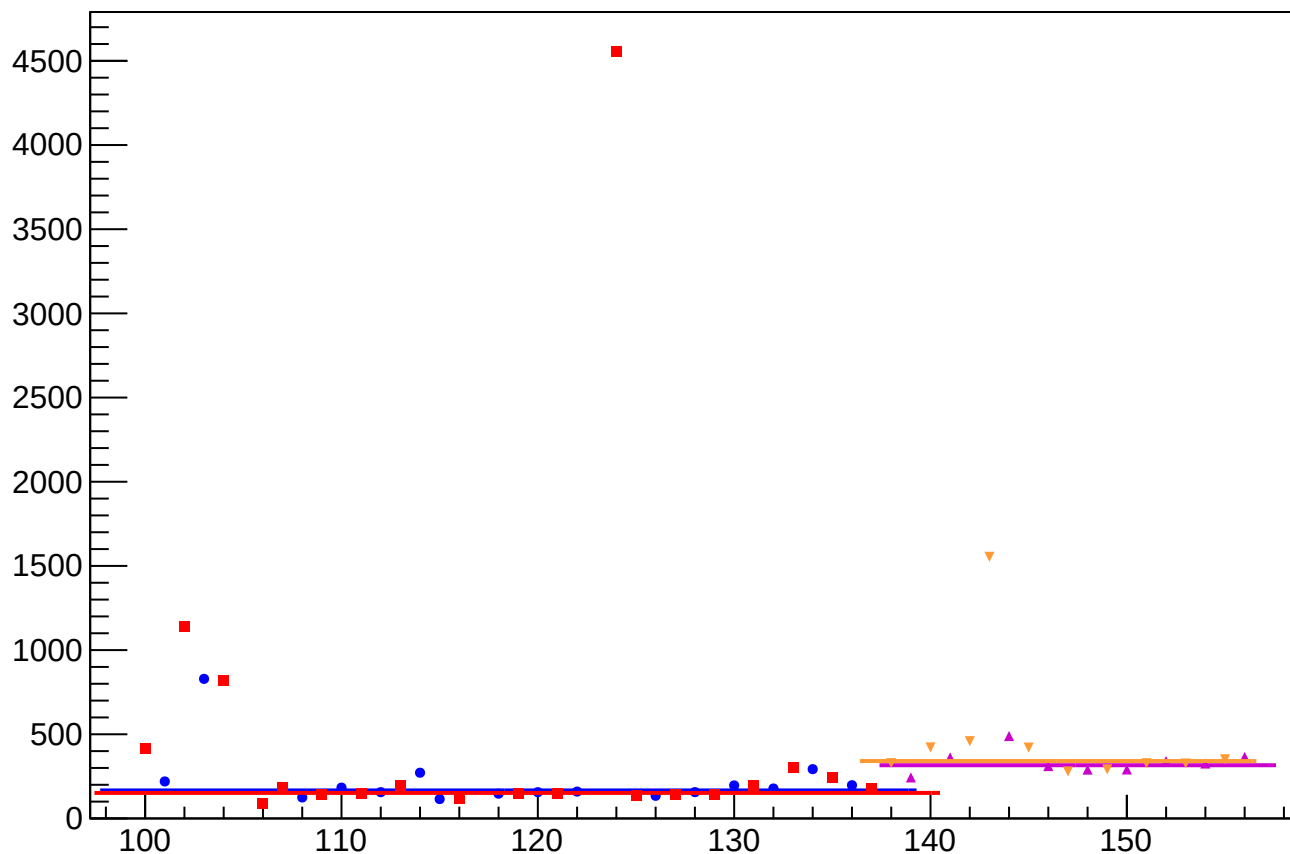
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.055 ± 0.058 χ^2/NDF : 26.1/24

Out: 0.042 ± 0.057 χ^2/NDF : 41.2/28

All: -0.006 ± 0.041 χ^2/NDF : 68.8/53

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: 341.016+/-0.091 χ^2/NDF :1303674.2/9

Right Out: 151.791+/-0.045 χ^2/NDF : 2315638.8/18

Left In: 316.161+/-0.082 χ^2/NDF :457735.1/8

Left: 327.323+/-0.061 χ^2/NDF : 1802584.2/18

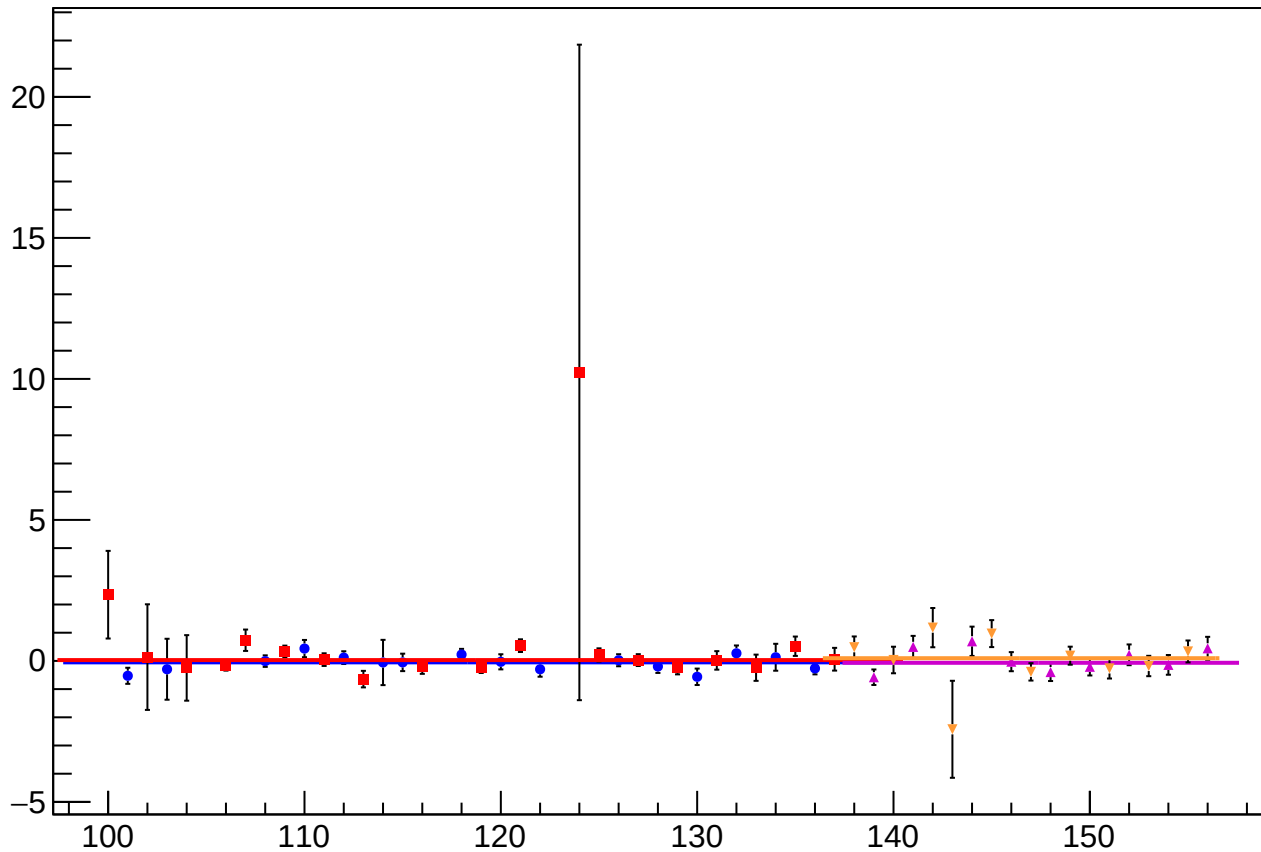
Right: 158.774+/-0.033 χ^2/NDF : 3648009.6/34

In: 203.565+/-0.041 χ^2/NDF :4243889.3/24

Out: 189.388+/-0.041 χ^2/NDF :7090597.8/28

All: 196.410+/-0.029 χ^2/NDF : 11395110.9/53

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: 0.096 ± 0.129 χ^2/NDF : 13.5/9

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.067 ± 0.116 χ^2/NDF : 11.2/8

Left: 0.006 ± 0.086 χ^2/NDF : 25.6/18

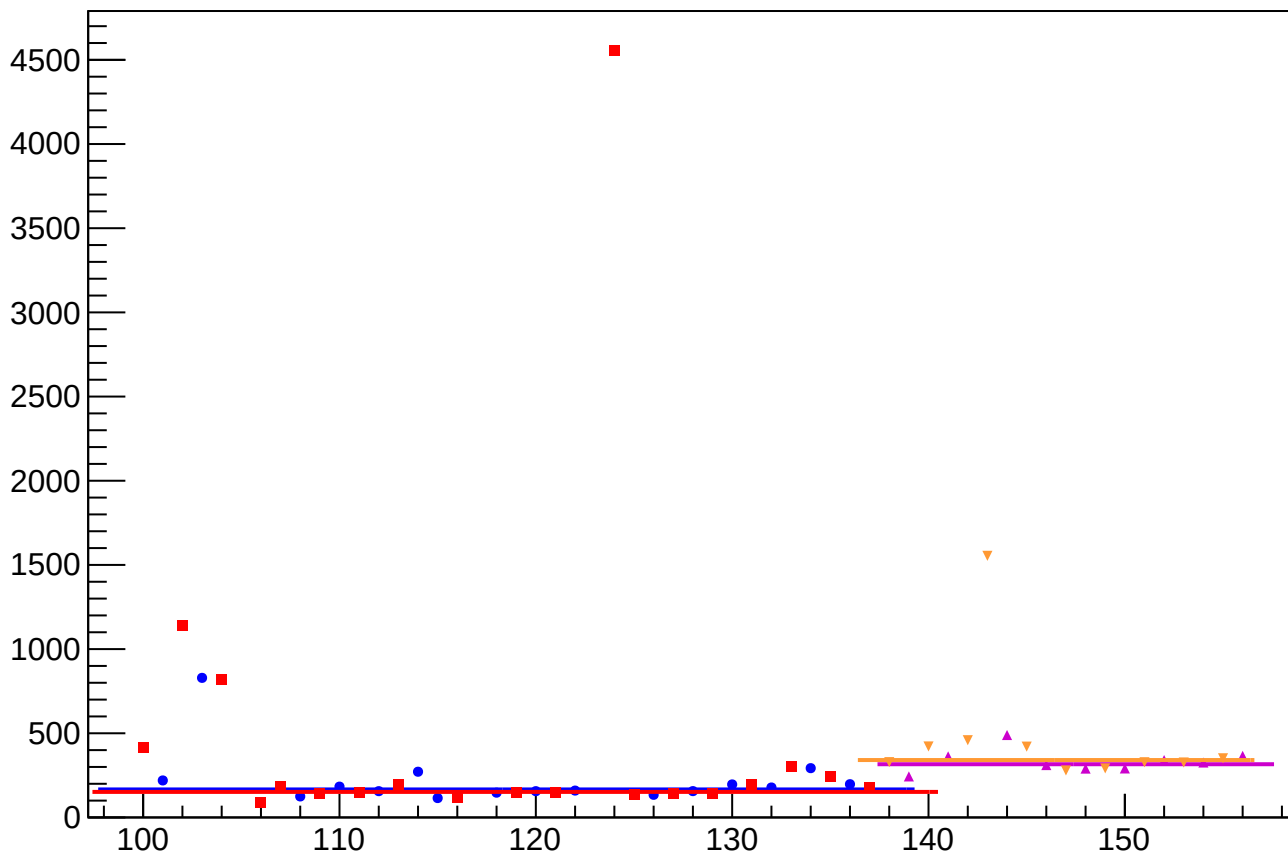
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.055 ± 0.058 χ^2/NDF : 26.1/24

Out: 0.042 ± 0.057 χ^2/NDF : 41.2/28

All: -0.006 ± 0.041 χ^2/NDF : 68.8/53

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: 341.016+/-0.091 χ^2/NDF :1303674.2/9

Right Out: 151.791+/-0.045 χ^2/NDF : 2315638.8/18

Left In: 316.161+/-0.082 χ^2/NDF :457735.1/8

Left: 327.323+/-0.061 χ^2/NDF : 1802584.2/18

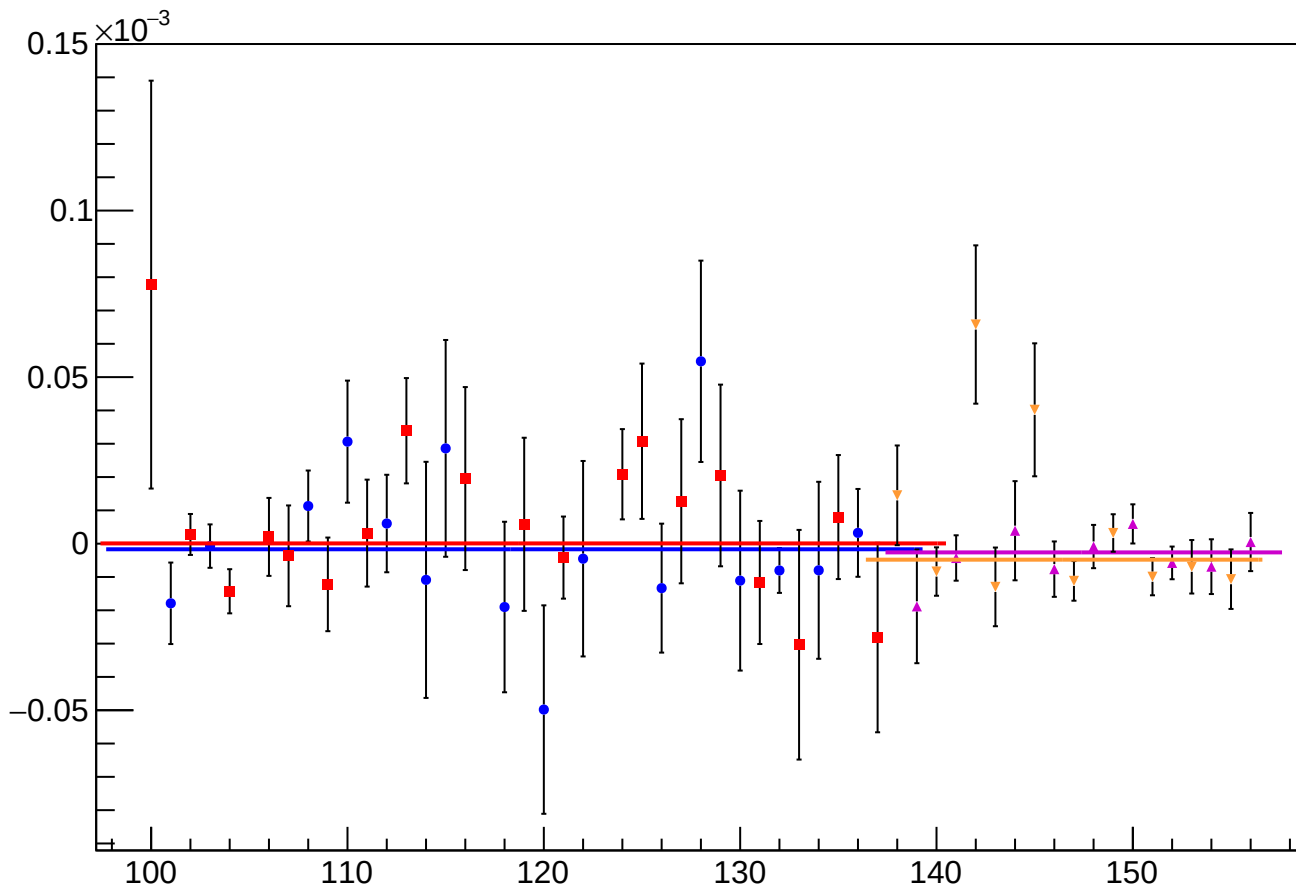
Right: 158.774+/-0.033 χ^2/NDF : 3648009.6/34

In: 203.565+/-0.041 χ^2/NDF :4243889.3/24

Out: 189.388+/-0.041 χ^2/NDF :7090597.8/28

All: 196.410+/-0.029 χ^2/NDF : 11395110.9/53

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 : 20.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.5/8

Left: -0.000+/-0.000 χ^2/NDF : 25.7/18

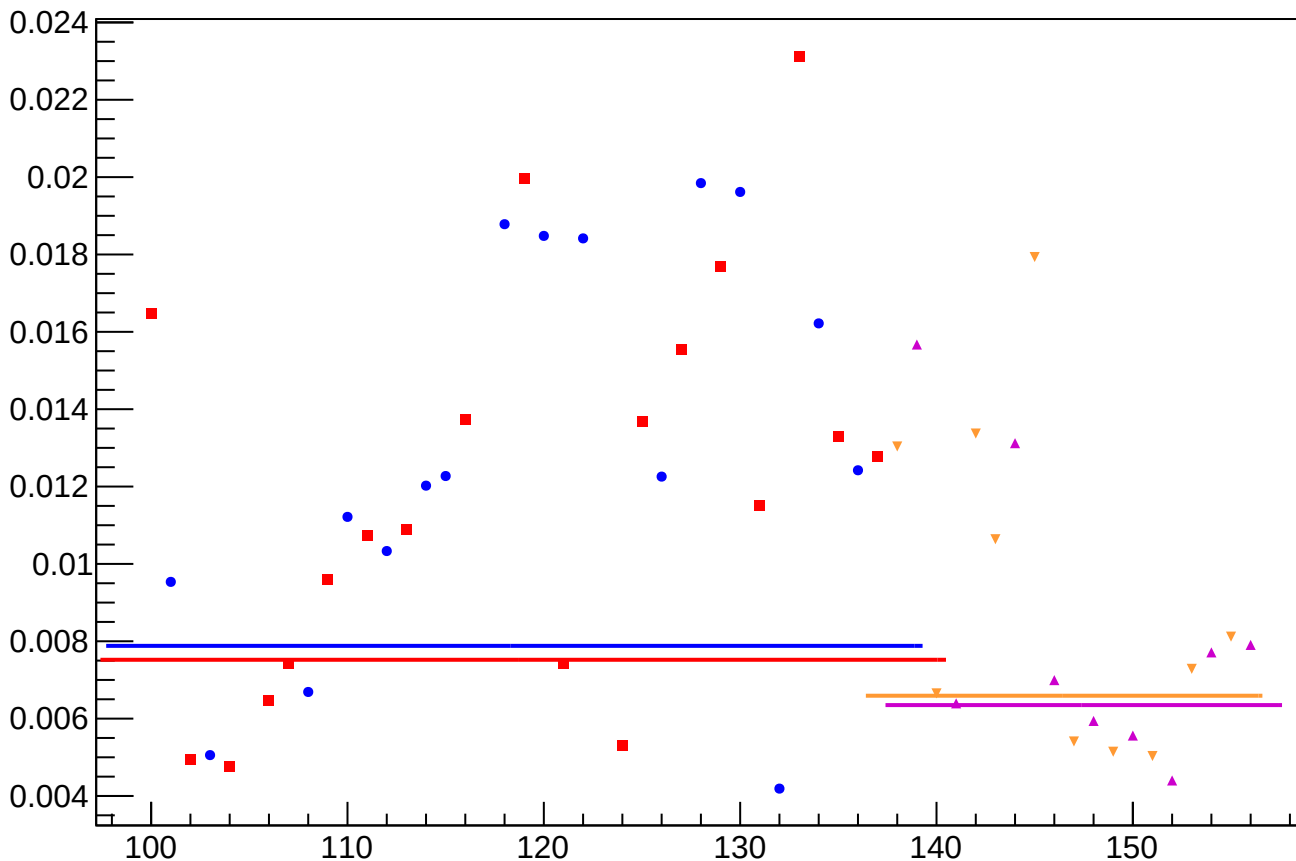
Right: -0.000+/-0.000 χ^2/NDF : 35.5/34

In: -0.000+/-0.000 χ^2/NDF : 20.0/24

Out: -0.000+/-0.000 χ^2/NDF : 42.2/28

All: -0.000+/-0.000 χ^2/NDF : 62.2/53

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: 0.007+/-0.000 χ^2/NDF :1855329.6/9

Right Out: 0.008+/-0.000 χ^2/NDF : 2975331.6/18

Left In: 0.006+/-0.000 χ^2/NDF :1501094.5/8

Left: 0.006+/-0.000 χ^2/NDF : 3365826.0/18

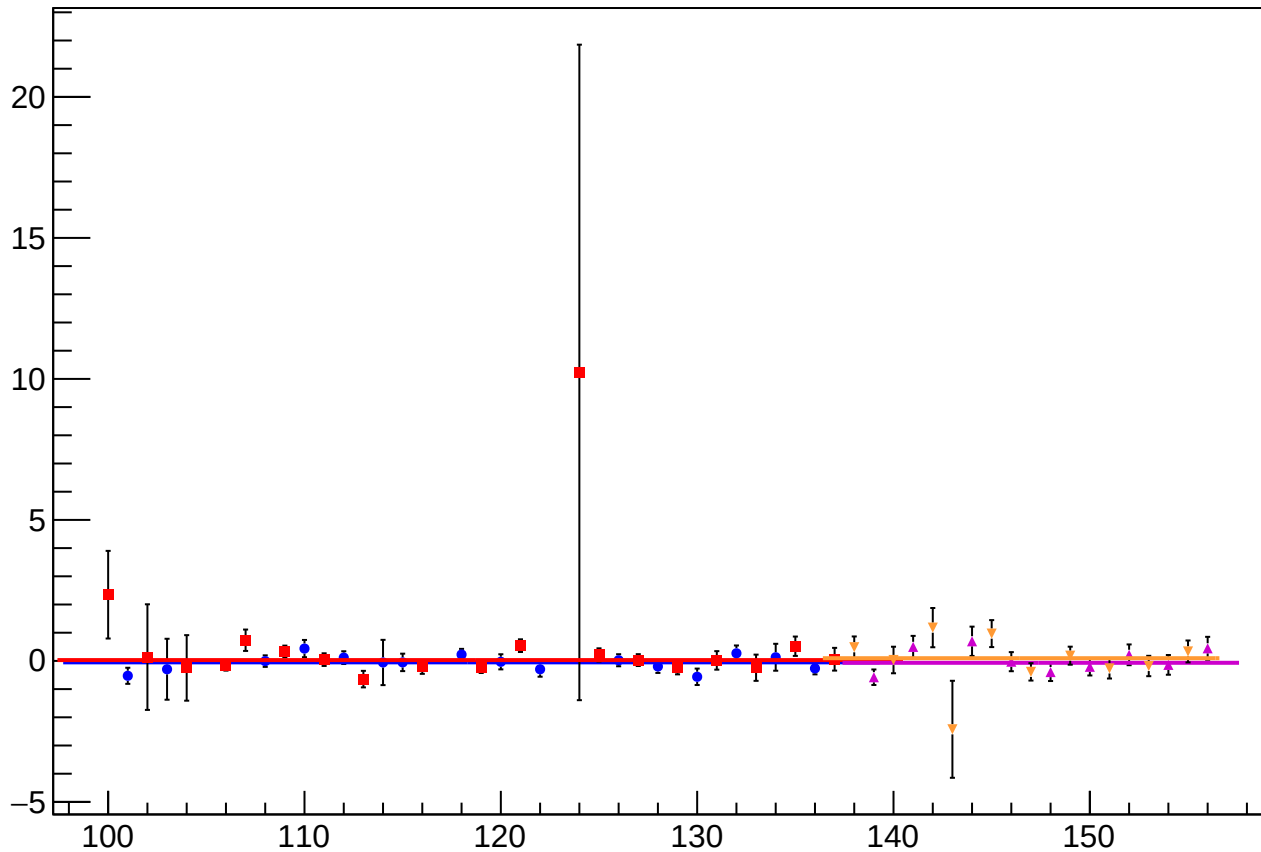
Right: 0.008+/-0.000 χ^2/NDF : 6289175.2/34

In: 0.007+/-0.000 χ^2/NDF :5069551.8/24

Out: 0.007+/-0.000 χ^2/NDF :4936644.0/28

All: 0.007+/-0.000 χ^2/NDF : 10008078.7/53

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 χ^2/NDF : 14.9/15

Left Out: 0.096 ± 0.129 χ^2/NDF : 13.5/9

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.067 ± 0.116 χ^2/NDF : 11.2/8

Left: 0.006 ± 0.086 χ^2/NDF : 25.6/18

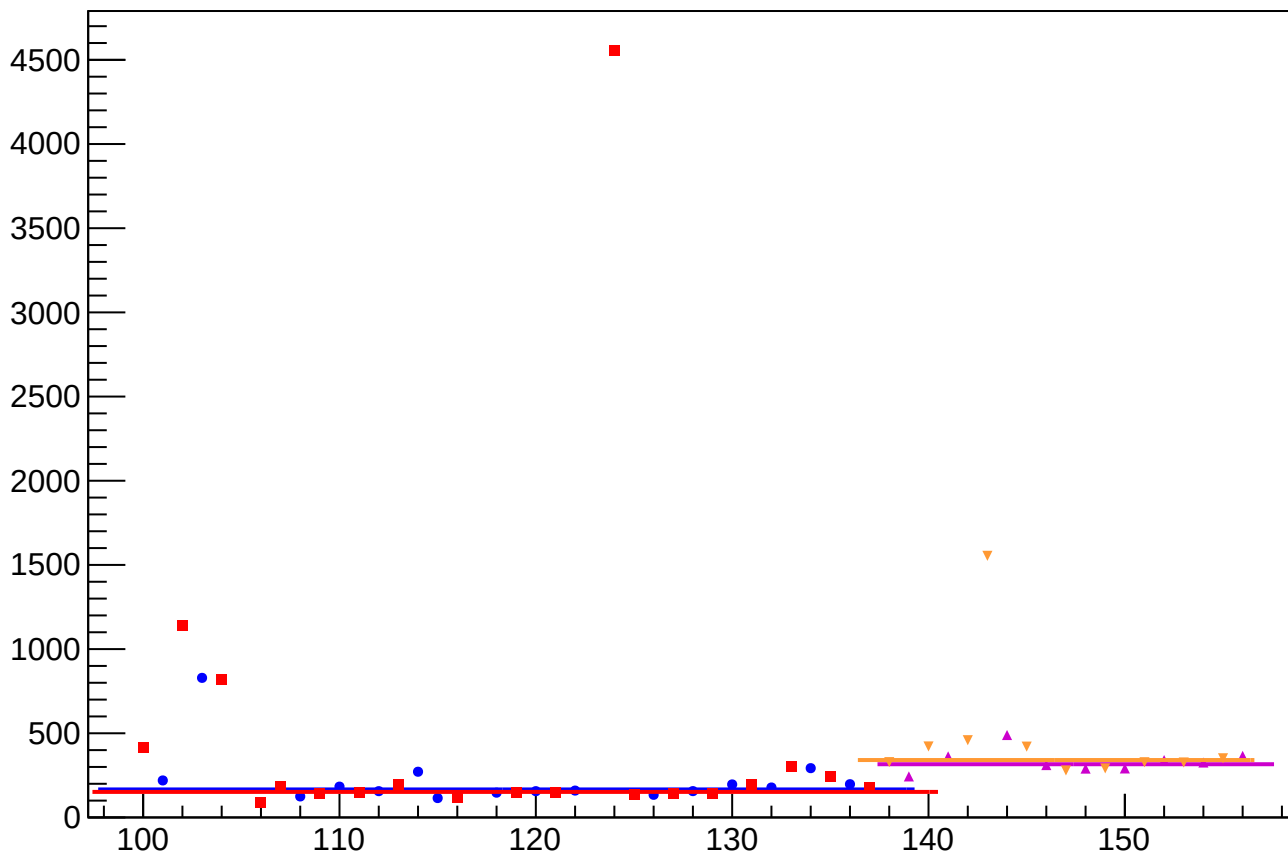
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.055 ± 0.058 χ^2/NDF : 26.1/24

Out: 0.042 ± 0.057 χ^2/NDF : 41.2/28

All: -0.006 ± 0.041 χ^2/NDF : 68.8/53

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: 341.020+/-0.091 χ^2/NDF :1303671.9/9

Right Out: 151.790+/-0.045 χ^2/NDF : 2315641.8/18

Left In: 316.166+/-0.082 χ^2/NDF :457720.3/8

Left: 327.327+/-0.061 χ^2/NDF : 1802563.9/18

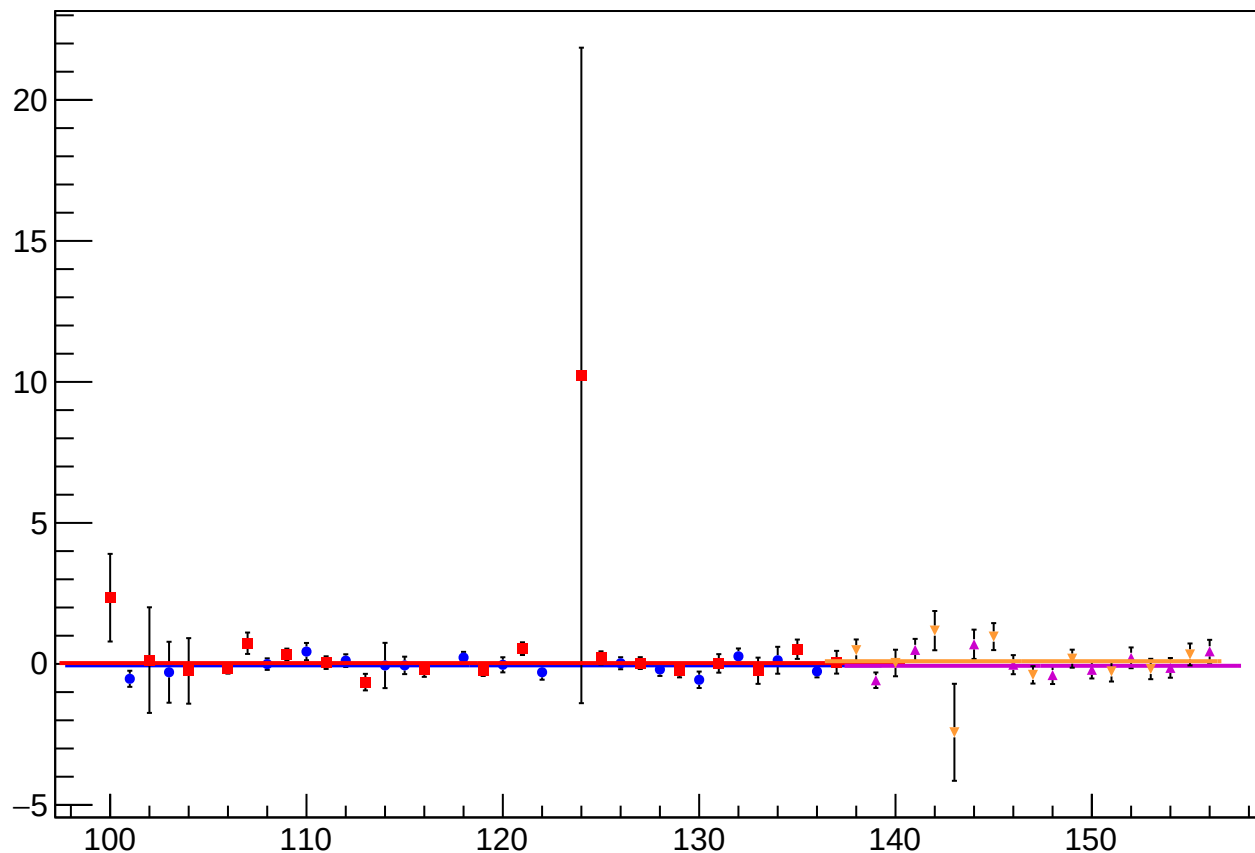
Right: 158.773+/-0.033 χ^2/NDF : 3648012.6/34

In: 203.565+/-0.041 χ^2/NDF :4243997.2/24

Out: 189.386+/-0.041 χ^2/NDF :7090735.6/28

All: 196.409+/-0.029 χ^2/NDF : 11395365.3/53

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: 0.096 ± 0.129 χ^2/NDF : 13.5/9

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.067 ± 0.116 χ^2/NDF : 11.2/8

Left: 0.006 ± 0.086 χ^2/NDF : 25.6/18

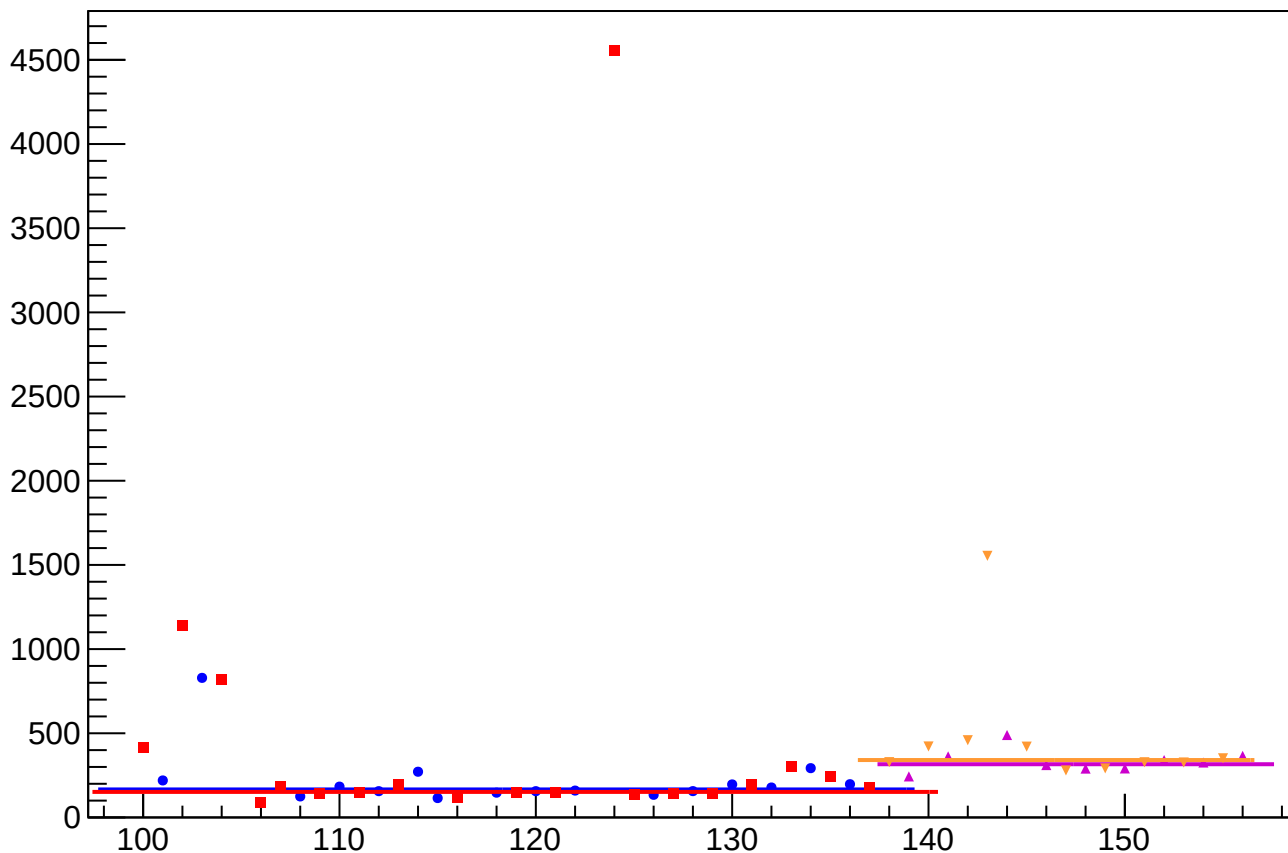
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.055 ± 0.058 χ^2/NDF : 26.1/24

Out: 0.042 ± 0.057 χ^2/NDF : 41.2/28

All: -0.006 ± 0.041 χ^2/NDF : 68.8/53

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: 341.020+/-0.091 χ^2/NDF :1303671.9/9

Right Out: 151.790+/-0.045 χ^2/NDF : 2315641.8/18

Left In: 316.166+/-0.082 χ^2/NDF :457720.3/8

Left: 327.327+/-0.061 χ^2/NDF : 1802563.9/18

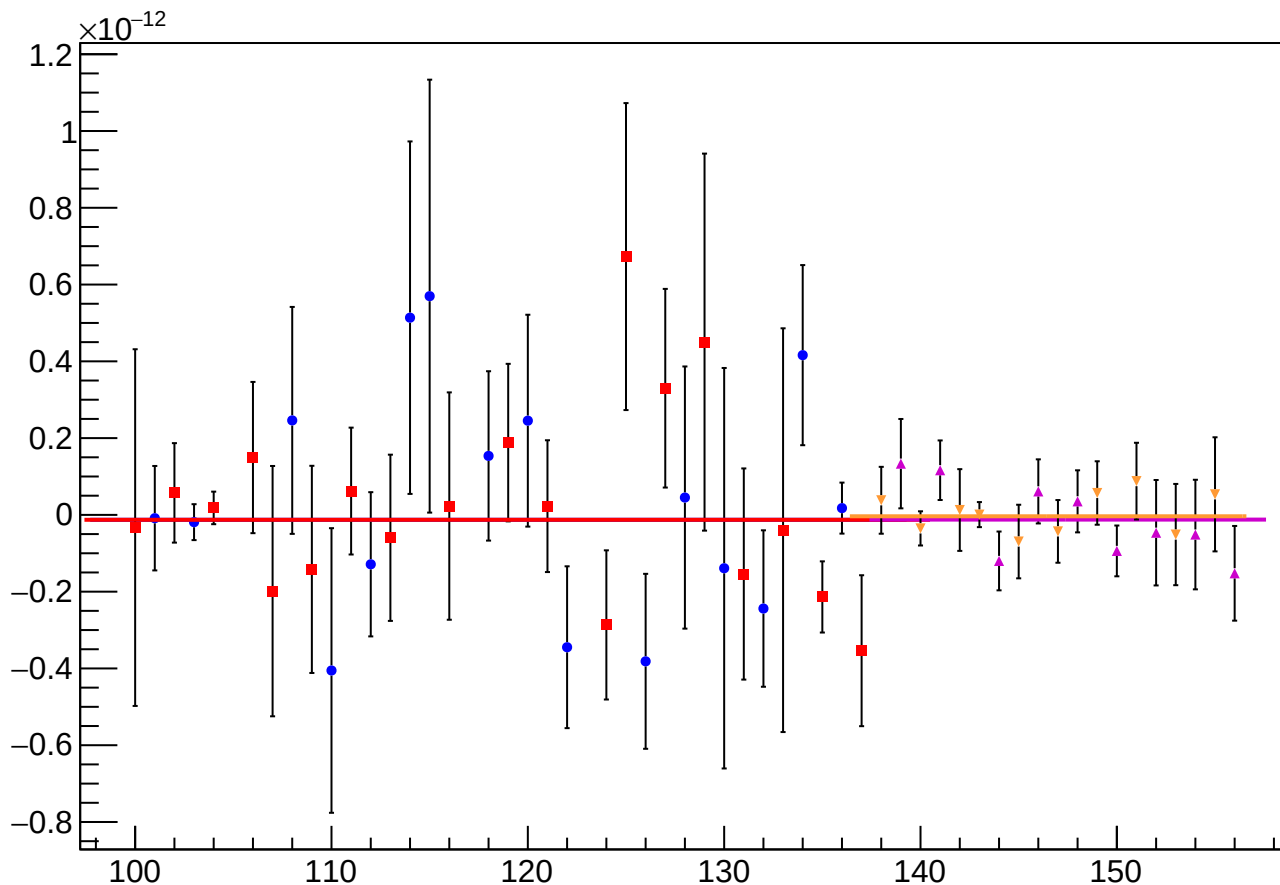
Right: 158.773+/-0.033 χ^2/NDF : 3648012.6/34

In: 203.565+/-0.041 χ^2/NDF :4243997.2/24

Out: 189.386+/-0.041 χ^2/NDF :7090735.6/28

All: 196.409+/-0.029 χ^2/NDF : 11395365.3/53

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 : 3.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 10.4/8

Left: -0.000+/-0.000 χ^2/NDF : 13.5/18

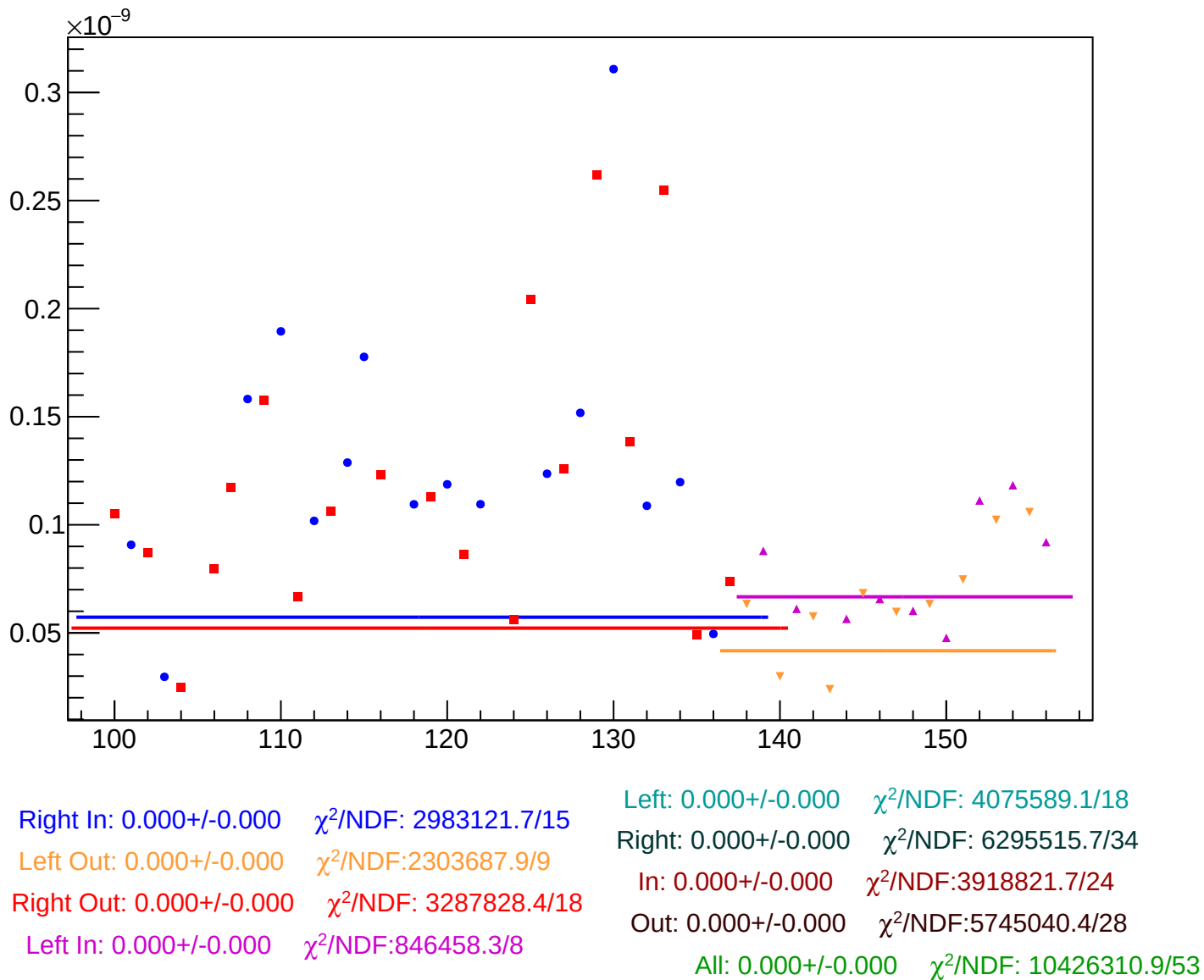
Right: -0.000+/-0.000 χ^2/NDF : 35.0/34

In: -0.000+/-0.000 χ^2/NDF : 26.5/24

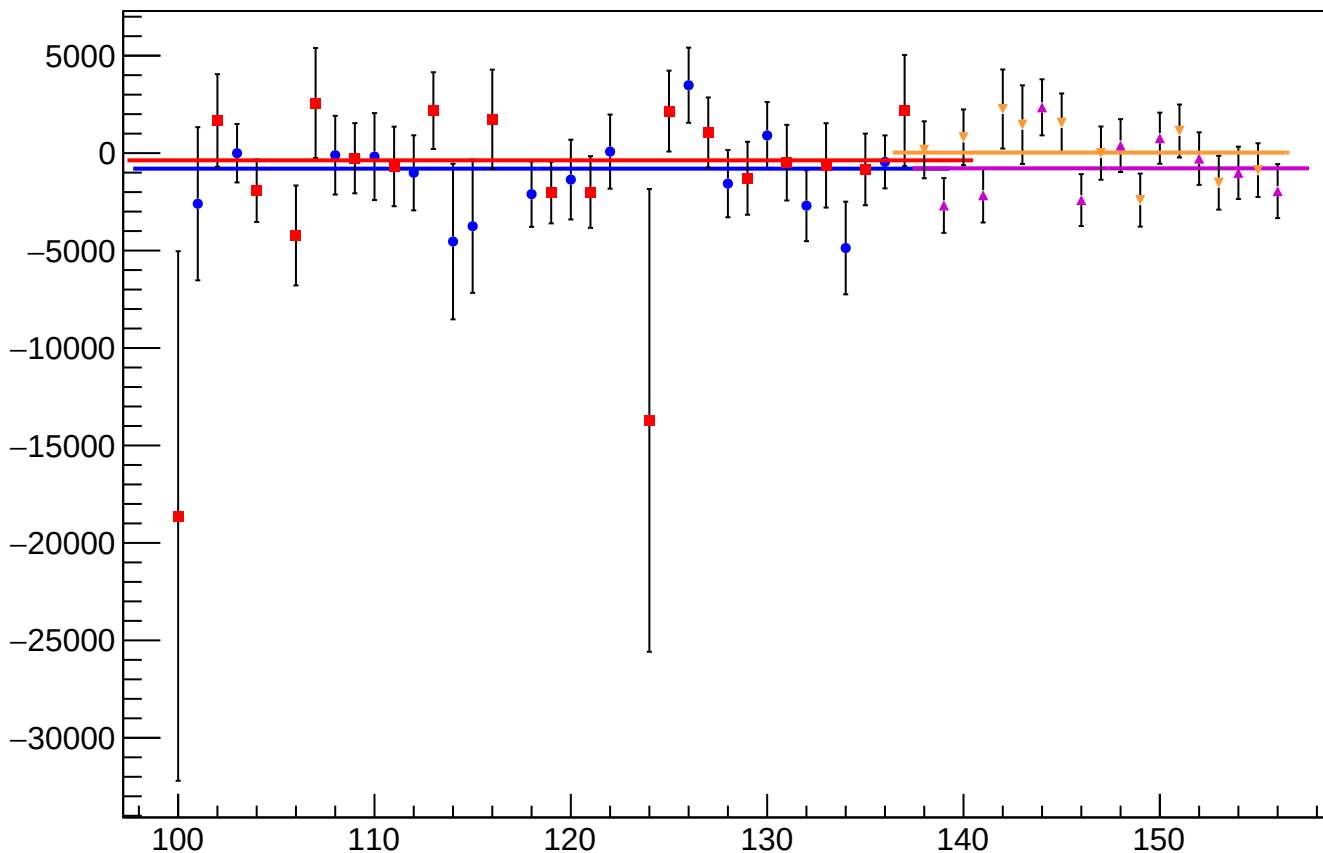
Out: -0.000+/-0.000 χ^2/NDF : 22.1/28

All: -0.000+/-0.000 χ^2/NDF : 48.6/53

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -797.285 ± 487.453 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 25.755 ± 468.741 $\chi^2/\text{NDF}: 8.6/9$

Right Out: -370.010 ± 485.826 $\chi^2/\text{NDF}: 15.6/18$

Left In: -780.755 ± 455.484 $\chi^2/\text{NDF}: 12.1/8$

Left: -389.066 ± 326.662 $\chi^2/\text{NDF}: 22.2/18$

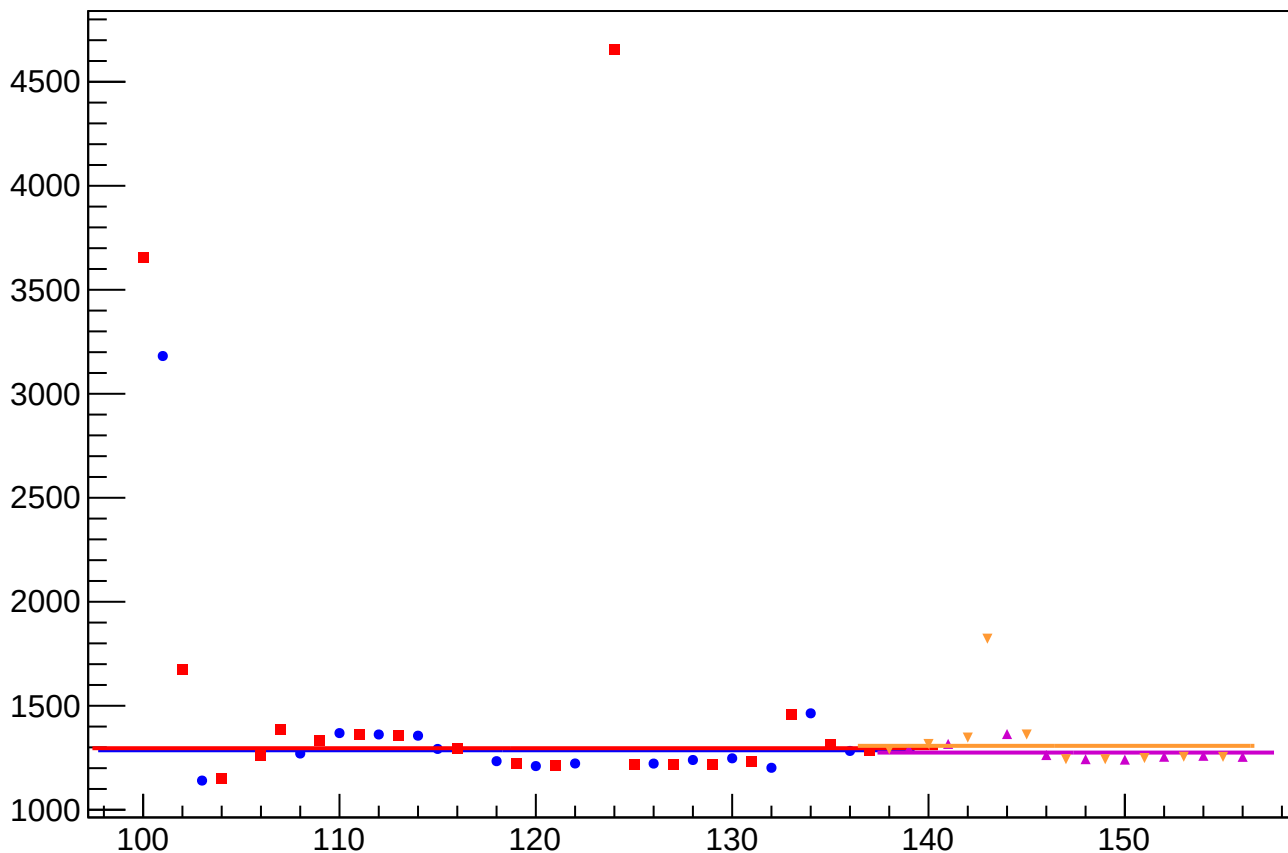
Right: -582.933 ± 344.105 $\chi^2/\text{NDF}: 29.4/34$

In: -788.460 ± 332.804 $\chi^2/\text{NDF}: 25.5/24$

Out: -165.047 ± 337.328 $\chi^2/\text{NDF}: 24.6/28$

All: -480.961 ± 236.911 $\chi^2/\text{NDF}: 51.8/53$

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518126.9/15

Left Out: 1307.359 $\pm$ 0.331 χ^2 /NDF: 152603.2/9

Right Out: 1295.943 $\pm$ 0.344 χ^2 /NDF: 328069.9/18

Left In: 1274.973 $\pm$ 0.322 χ^2 /NDF: 13526.7/8

Left: 1290.702 $\pm$ 0.231 χ^2 /NDF: 171040.2/18

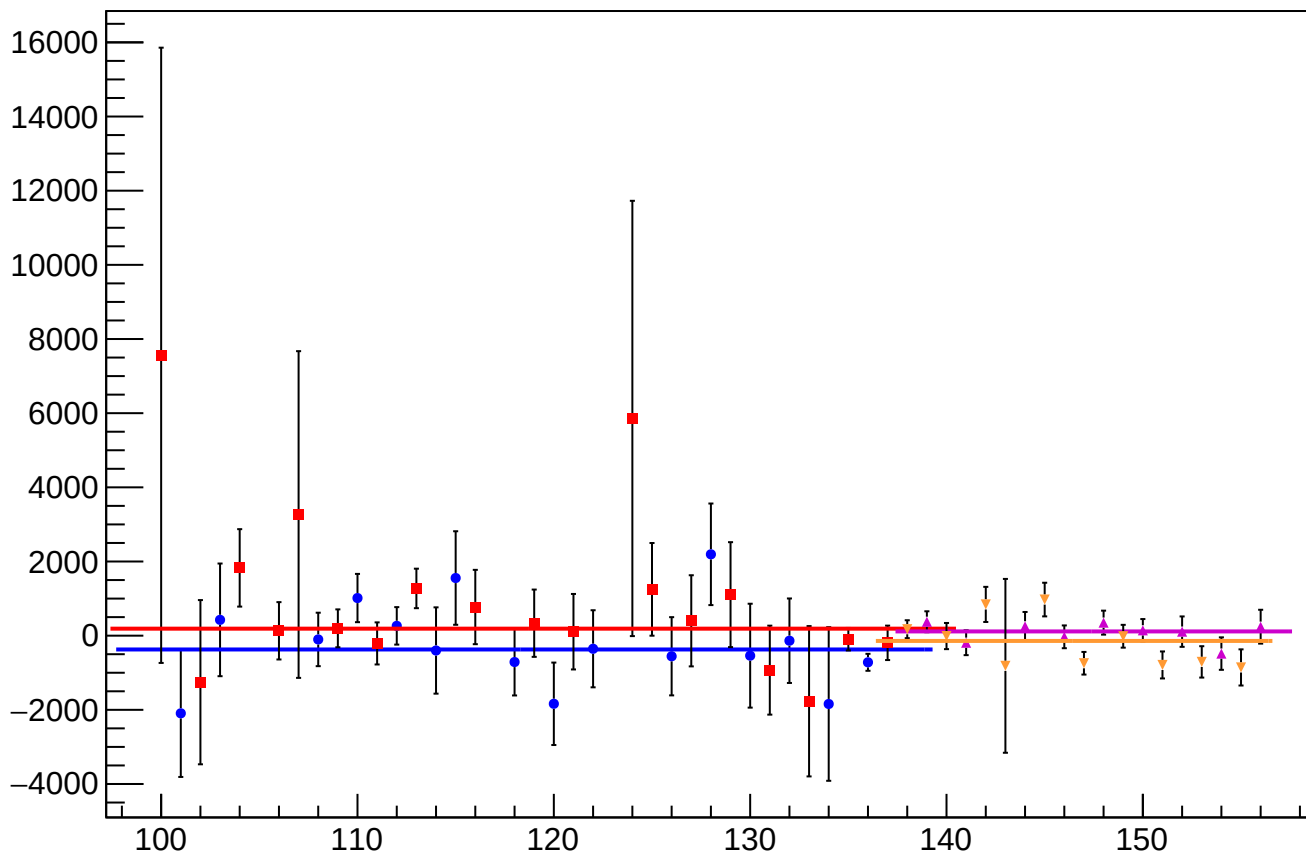
Right: 1291.036 $\pm$ 0.243 χ^2 /NDF: 846606.2/34

In: 1280.159 $\pm$ 0.235 χ^2 /NDF: 532209.7/24

Out: 1301.855 $\pm$ 0.239 χ^2 /NDF: 481245.0/28

All: 1290.860 $\pm$ 0.168 χ^2 /NDF: 1017647.4/53

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: -142.165+/-116.781 χ^2/NDF : 23.5/9

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 114.339+/-115.410 χ^2/NDF : 4.5/8

Left: -12.398+/-82.088 χ^2/NDF : 30.4/18

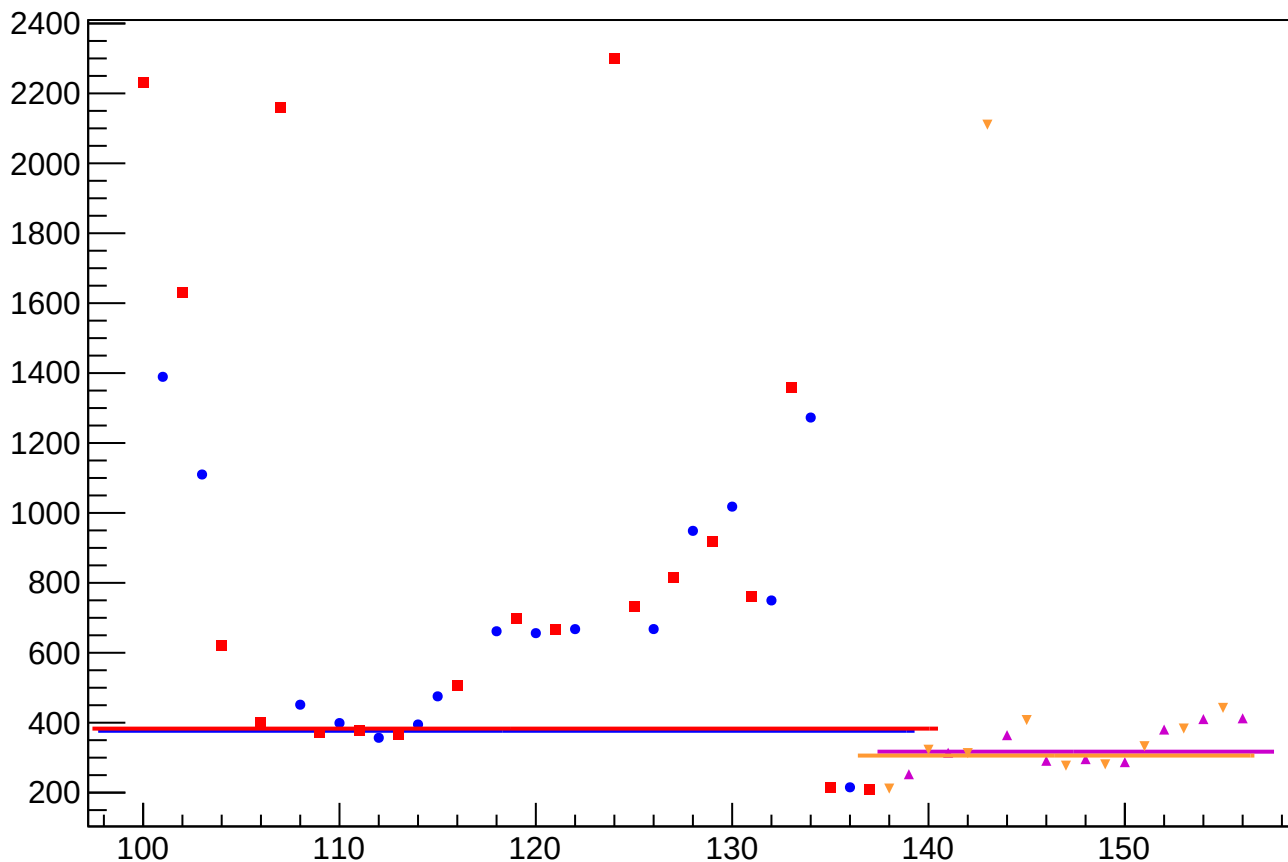
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -41.437+/-95.164 χ^2/NDF : 28.4/24

Out: -35.648+/-96.180 χ^2/NDF : 40.7/28

All: -38.573+/-67.647 χ^2/NDF : 69.1/53

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893 ± 0.119 $\chi^2/\text{NDF}: 4190194.7/15$

Left Out: 305.954 ± 0.083 $\chi^2/\text{NDF}: 1861790.7/9$

Right Out: 383.074 ± 0.120 $\chi^2/\text{NDF}: 4054121.5/18$

Left In: 317.091 ± 0.082 $\chi^2/\text{NDF}: 402607.9/8$

Left: 311.589 ± 0.058 $\chi^2/\text{NDF}: 2273600.9/18$

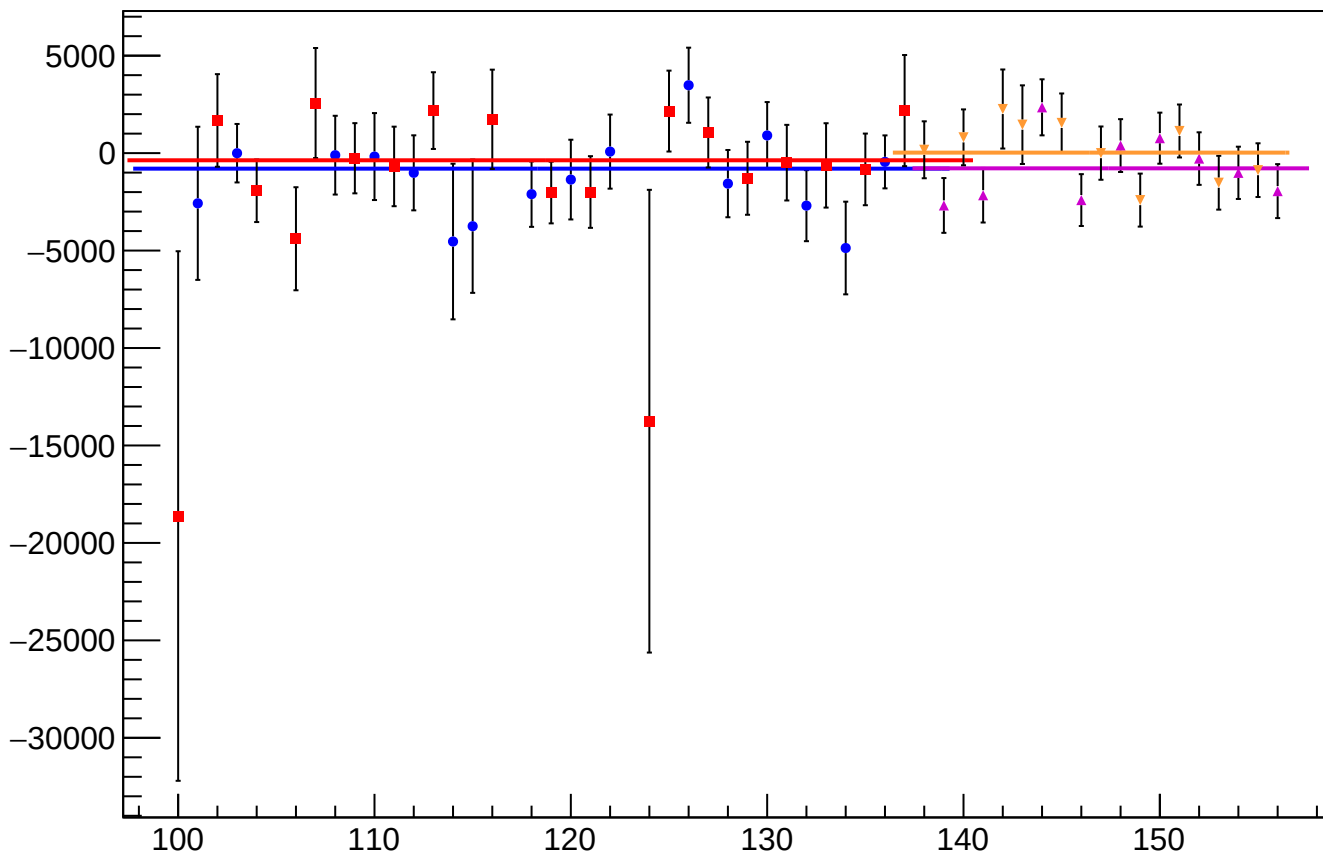
Right: 379.958 ± 0.084 $\chi^2/\text{NDF}: 8245655.7/34$

In: 336.233 ± 0.067 $\chi^2/\text{NDF}: 4764684.8/24$

Out: 330.763 ± 0.068 $\chi^2/\text{NDF}: 6196492.4/28$

All: 333.527 ± 0.048 $\chi^2/\text{NDF}: 10964445.6/53$

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: 25.770 ± 468.741 χ^2/NDF : 8.6/9

Right Out: -367.476 ± 486.348 χ^2/NDF : 15.7/18

Left In: -780.723 ± 455.484 χ^2/NDF : 12.1/8

Left: -389.042 ± 326.662 χ^2/NDF : 22.2/18

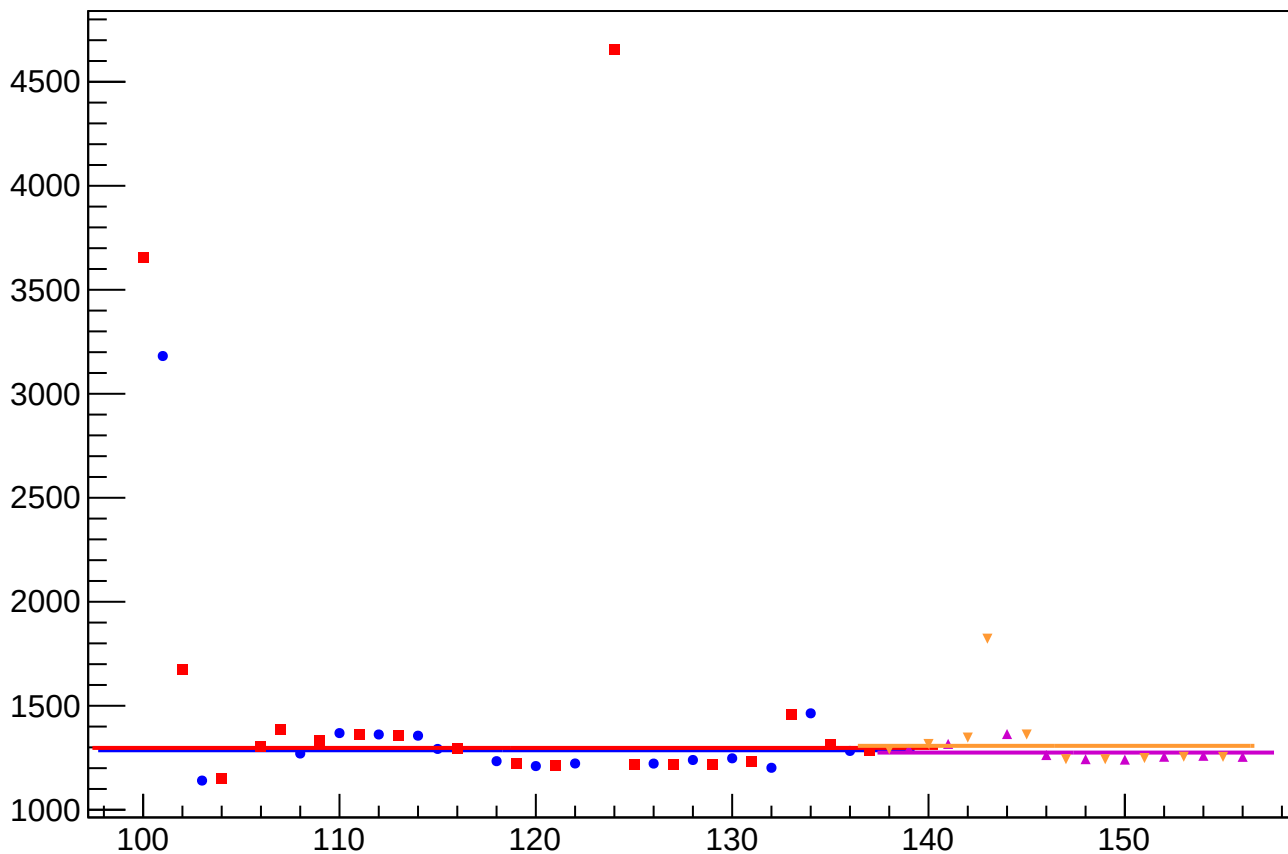
Right: -581.692 ± 344.290 χ^2/NDF : 29.5/34

In: -788.256 ± 332.804 χ^2/NDF : 25.5/24

Out: -163.606 ± 337.503 χ^2/NDF : 24.6/28

All: -480.309 ± 236.972 χ^2/NDF : 51.8/53

cor_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518128.4/15

Left Out: 1307.359 $\pm$ 0.331 χ^2 /NDF: 152603.2/9

Right Out: 1297.394 $\pm$ 0.344 χ^2 /NDF: 327741.7/18

Left In: 1274.973 $\pm$ 0.322 χ^2 /NDF: 13526.7/8

Left: 1290.702 $\pm$ 0.231 χ^2 /NDF: 171040.2/18

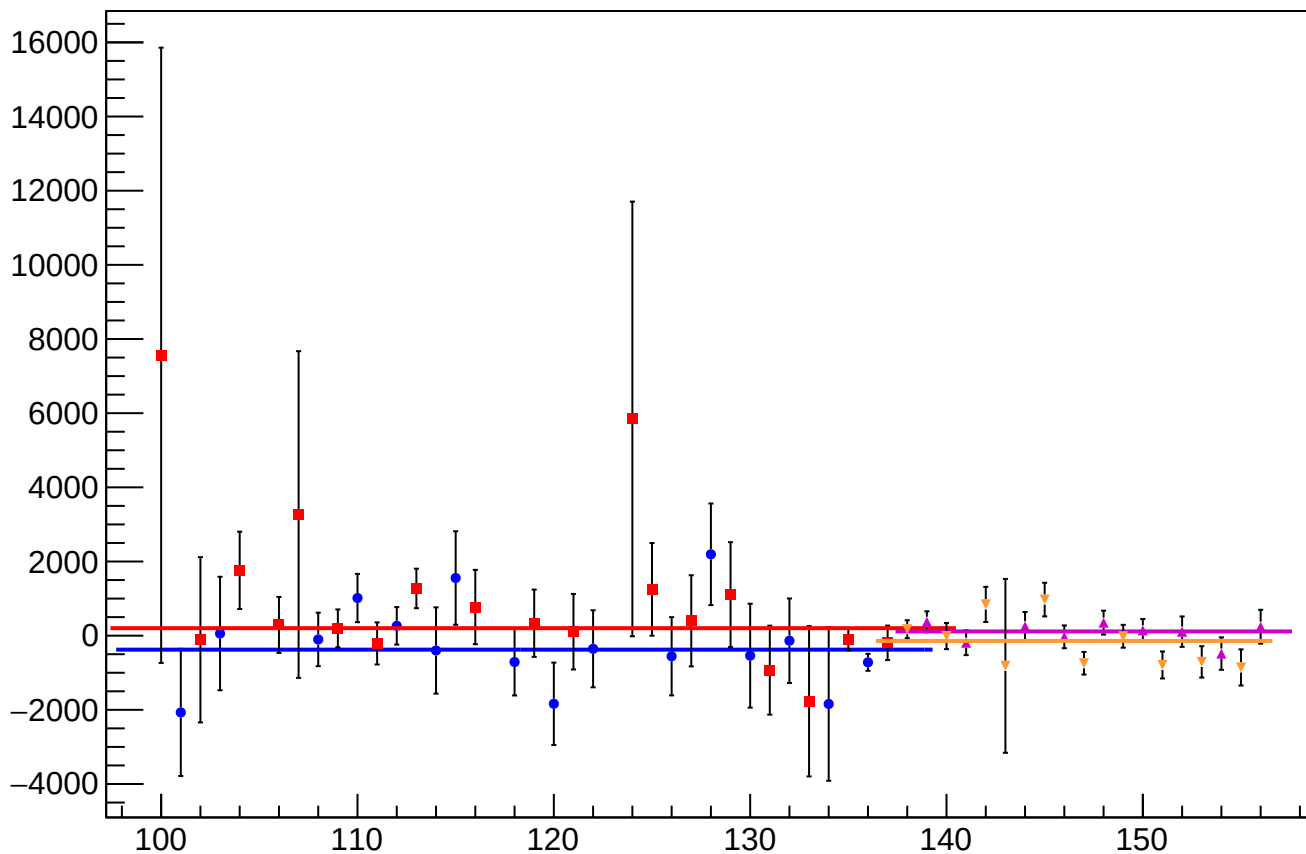
Right: 1291.758 $\pm$ 0.243 χ^2 /NDF: 846408.4/34

In: 1280.158 $\pm$ 0.235 χ^2 /NDF: 532211.1/24

Out: 1302.560 $\pm$ 0.239 χ^2 /NDF: 480780.2/28

All: 1291.202 $\pm$ 0.168 χ^2 /NDF: 1017458.5/53

asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 $\pm$ 168.223 χ^2 /NDF: 17.9/15

Left Out: -142.182 $\pm$ 116.785 χ^2 /NDF:23.5/9

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 114.356 $\pm$ 115.410 χ^2 /NDF:4.5/8

Left: -12.395 $\pm$ 82.089 χ^2 /NDF: 30.4/18

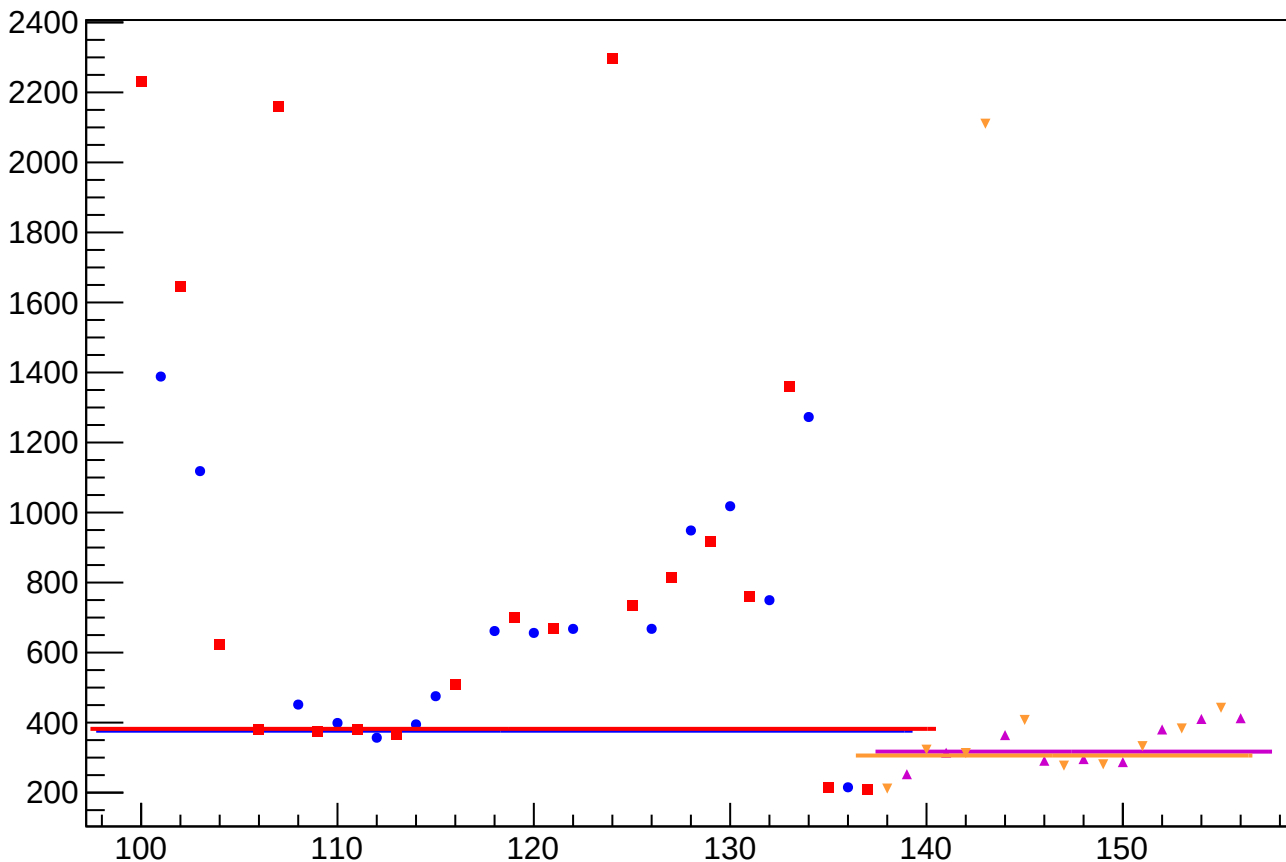
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -42.823 $\pm$ 95.167 χ^2 /NDF:28.2/24

Out: -31.234 $\pm$ 96.146 χ^2 /NDF:40.3/28

All: -37.088 $\pm$ 67.637 χ^2 /NDF: 68.6/53

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: 305.964+/-0.083 χ^2/NDF :1861726.1/9

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 317.091+/-0.082 χ^2/NDF :402679.3/8

Left: 311.593+/-0.058 χ^2/NDF : 2273589.8/18

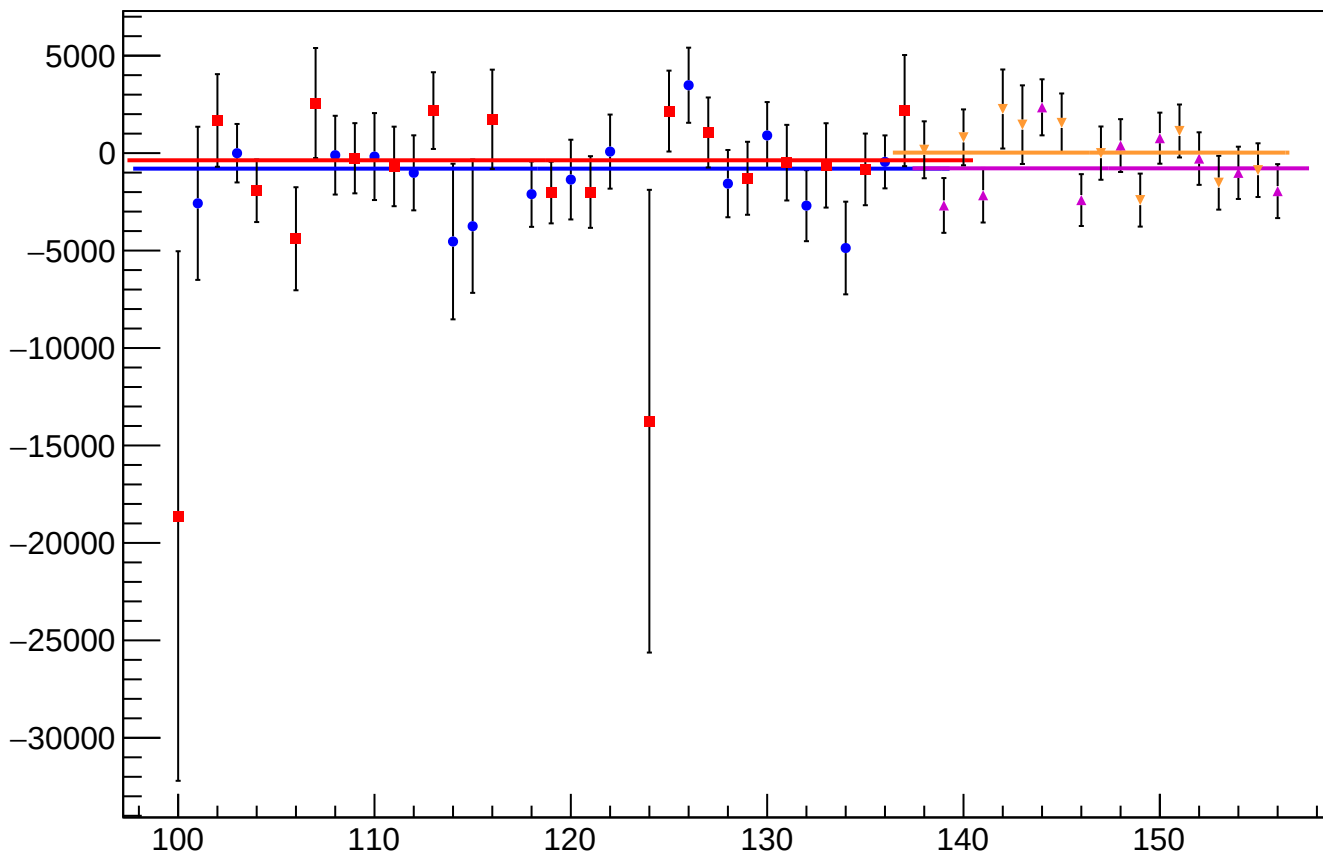
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 336.227+/-0.067 χ^2/NDF :4767817.2/24

Out: 330.508+/-0.068 χ^2/NDF :6195482.6/28

All: 333.397+/-0.048 χ^2/NDF : 10966873.7/53

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: 25.770+/-468.741 χ^2/NDF :8.6/9

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -780.723+/-455.484 χ^2/NDF :12.1/8

Left: -389.042+/-326.662 χ^2/NDF : 22.2/18

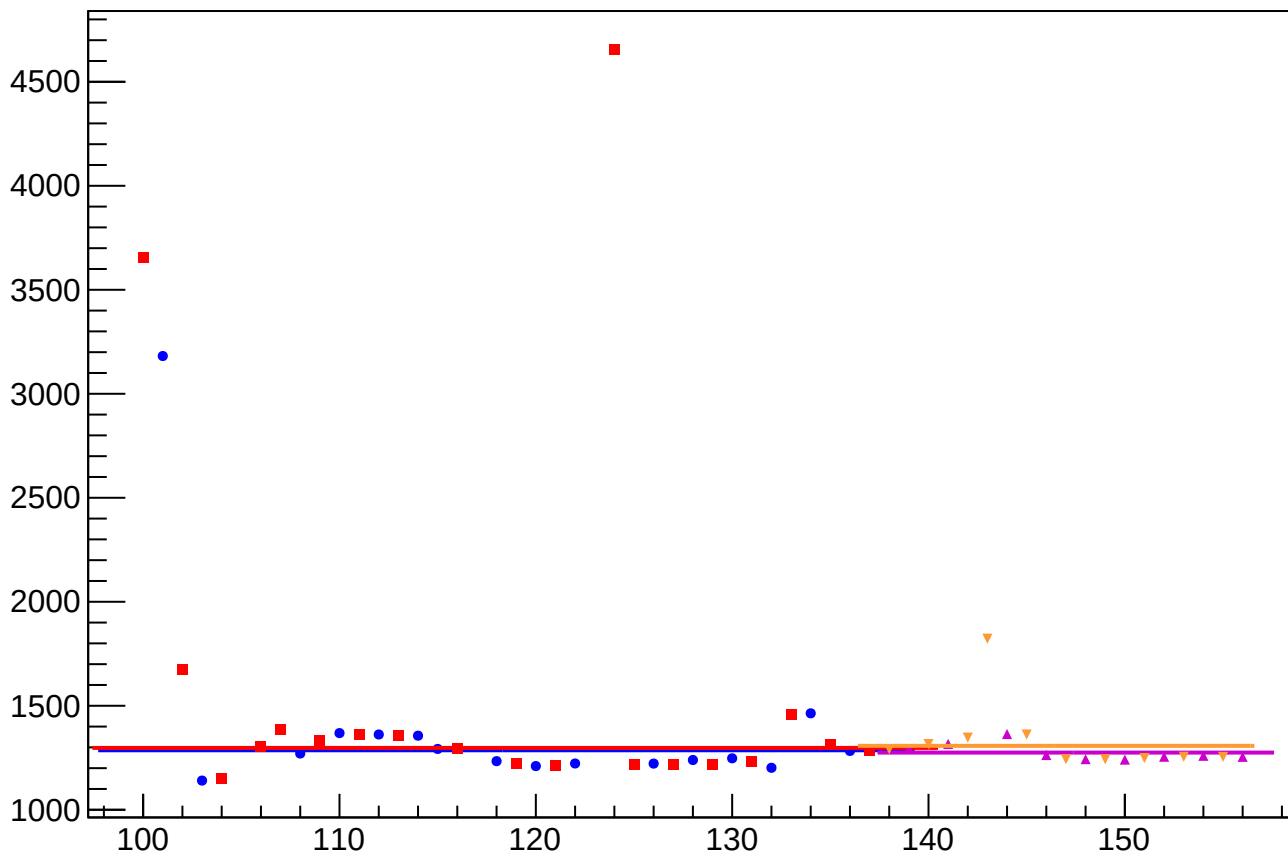
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -788.256+/-332.804 χ^2/NDF :25.5/24

Out: -163.606+/-337.503 χ^2/NDF :24.6/28

All: -480.309+/-236.972 χ^2/NDF : 51.8/53

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: 1307.359+/-0.331 χ^2/NDF :152603.2/9

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1274.973+/-0.322 χ^2/NDF :13526.7/8

Left: 1290.702+/-0.231 χ^2/NDF : 171040.2/18

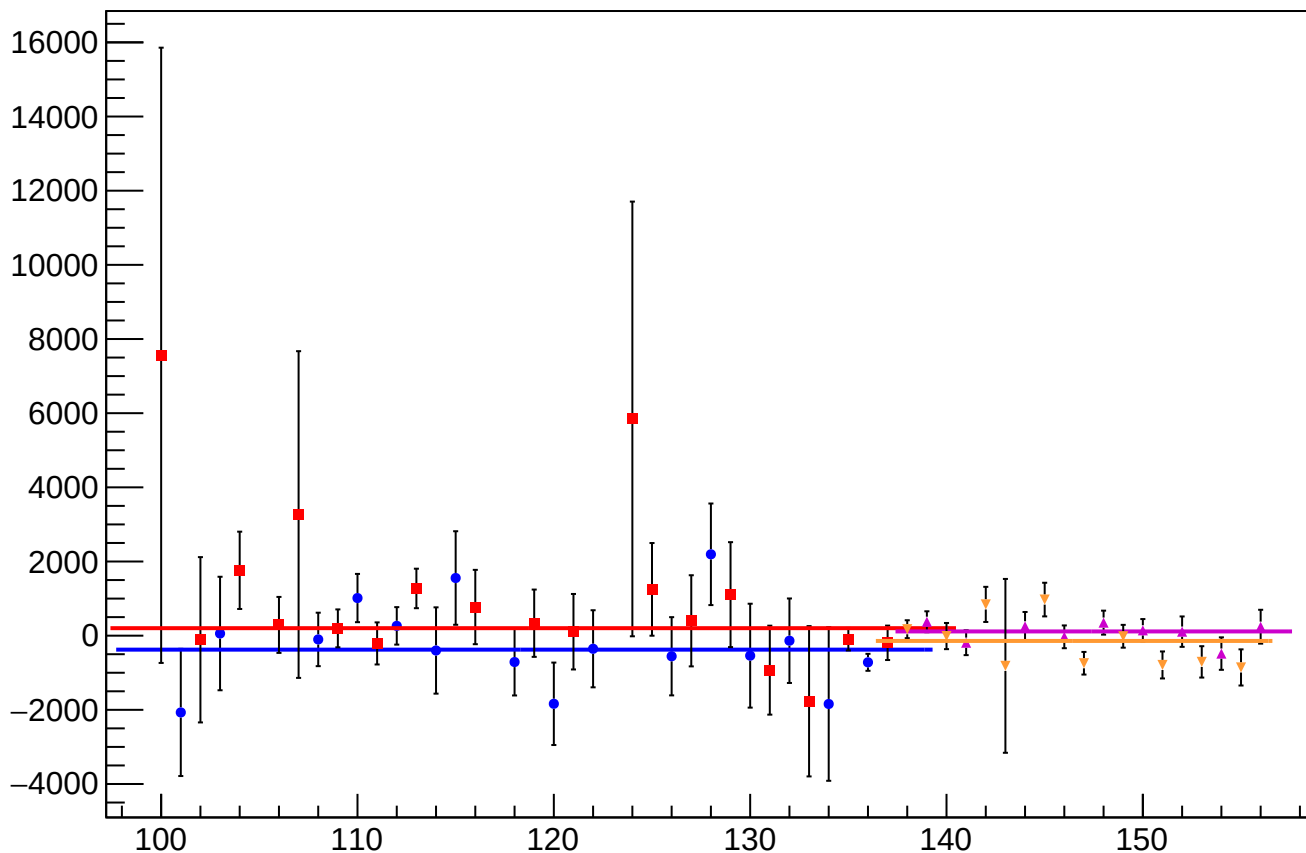
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1280.158+/-0.235 χ^2/NDF :532211.1/24

Out: 1302.560+/-0.239 χ^2/NDF :480780.2/28

All: 1291.202+/-0.168 χ^2/NDF : 1017458.5/53

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 $\pm$ 168.223 χ^2 /NDF: 17.9/15

Left Out: -142.182 $\pm$ 116.785 χ^2 /NDF:23.5/9

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 114.356 $\pm$ 115.410 χ^2 /NDF:4.5/8

Left: -12.395 $\pm$ 82.089 χ^2 /NDF: 30.4/18

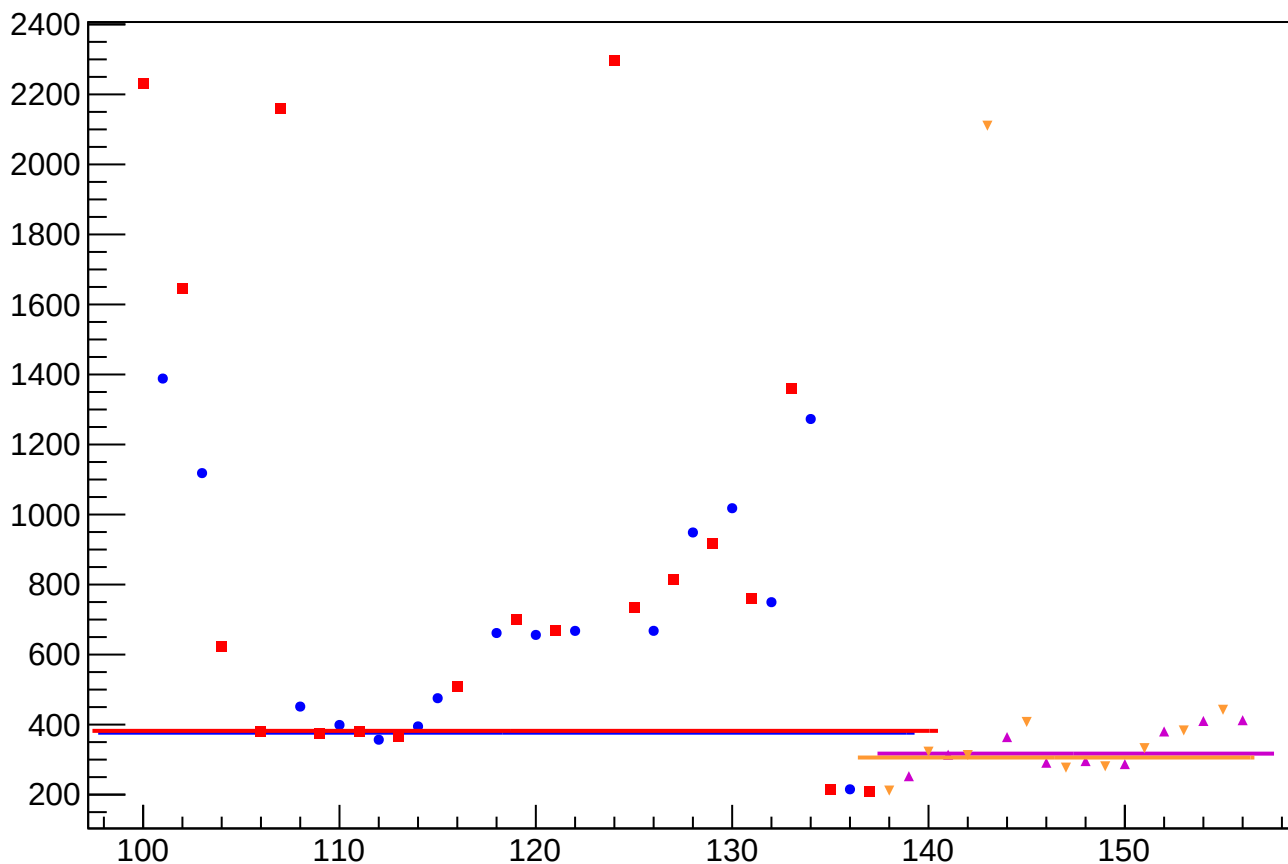
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -42.823 $\pm$ 95.167 χ^2 /NDF:28.2/24

Out: -31.234 $\pm$ 96.146 χ^2 /NDF:40.3/28

All: -37.088 $\pm$ 67.637 χ^2 /NDF: 68.6/53

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: 305.964+/-0.083 χ^2/NDF : 1861726.1/9

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 317.091+/-0.082 χ^2/NDF : 402679.3/8

Left: 311.593+/-0.058 χ^2/NDF : 2273589.8/18

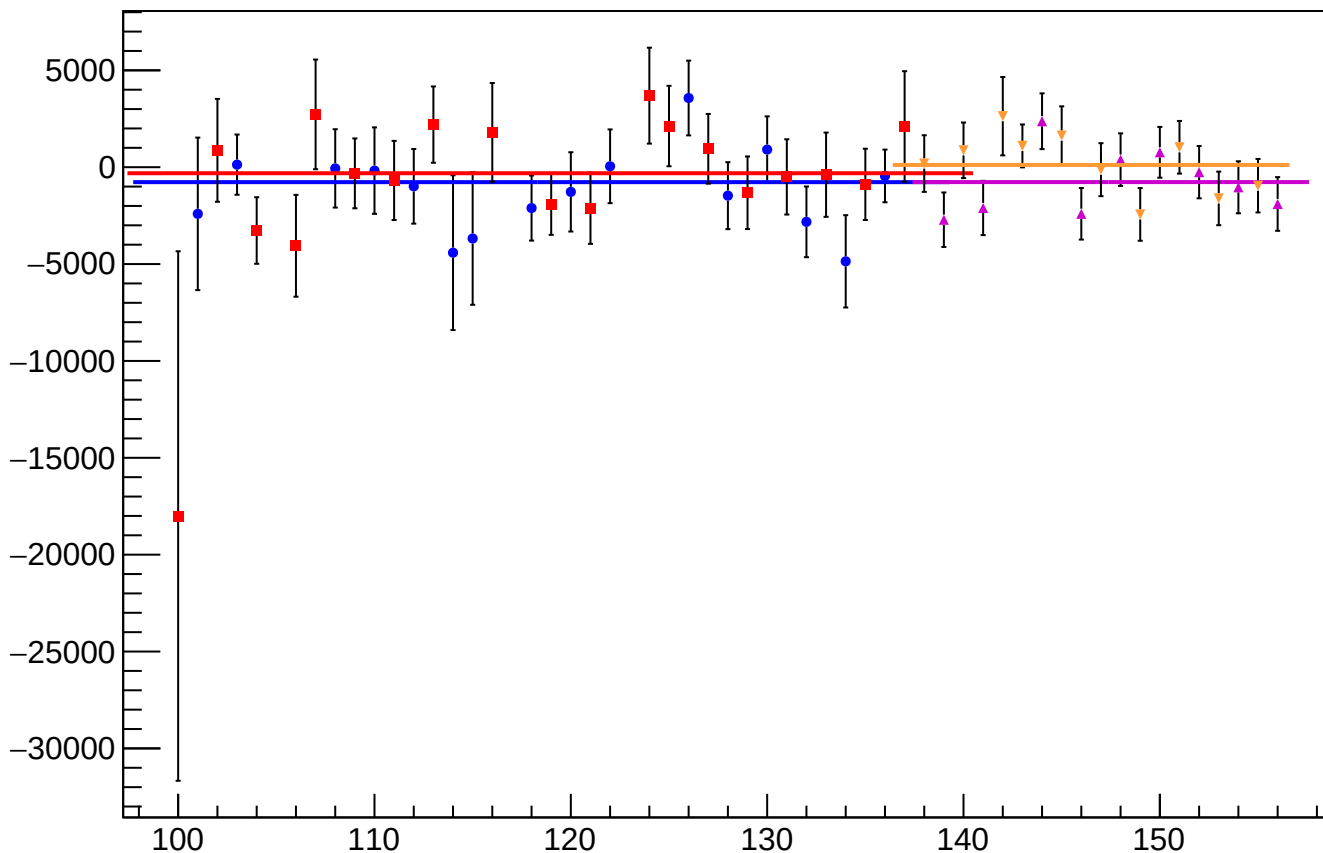
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 336.227+/-0.067 χ^2/NDF : 4767817.2/24

Out: 330.508+/-0.068 χ^2/NDF : 6195482.6/28

All: 333.397+/-0.048 χ^2/NDF : 10966873.7/53

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: 115.556 ± 442.076 χ^2/NDF : 9.8/9

Right Out: -311.418 ± 482.642 χ^2/NDF : 17.9/18

Left In: -768.448 ± 455.848 χ^2/NDF : 12.0/8

Left: -312.891 ± 317.352 χ^2/NDF : 23.8/18

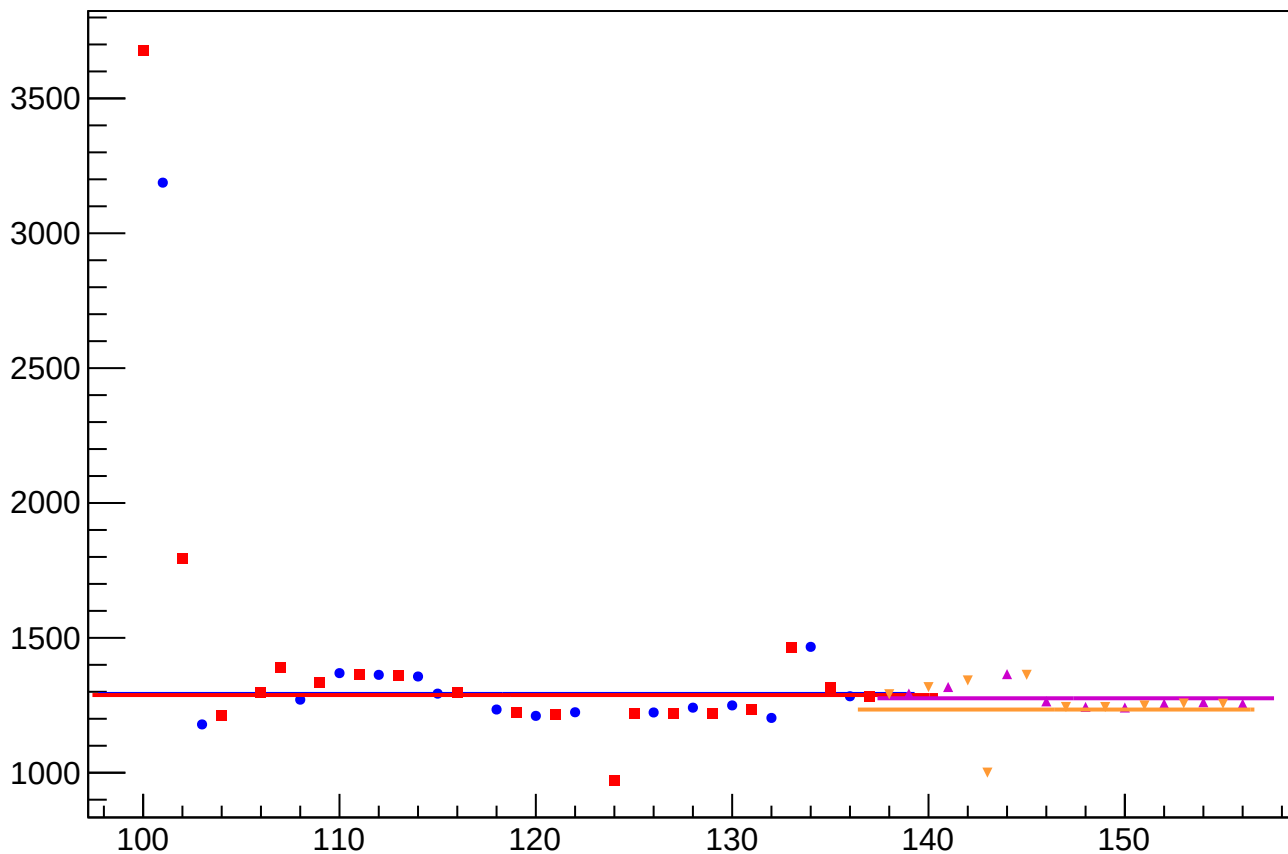
Right: -538.165 ± 343.714 χ^2/NDF : 32.0/34

In: -769.865 ± 333.628 χ^2/NDF : 25.6/24

Out: -79.236 ± 325.995 χ^2/NDF : 28.1/28

All: -416.559 ± 233.165 χ^2/NDF : 56.0/53

dit_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1292.038 $\pm$ 0.346 χ^2/NDF : 509406.3/15

Left Out: 1234.214 $\pm$ 0.313 χ^2/NDF :120601.0/9

Right Out: 1287.988 $\pm$ 0.341 χ^2/NDF : 209208.8/18

Left In: 1275.984 $\pm$ 0.322 χ^2/NDF :13586.9/8

Left: 1254.459 $\pm$ 0.224 χ^2/NDF : 142842.0/18

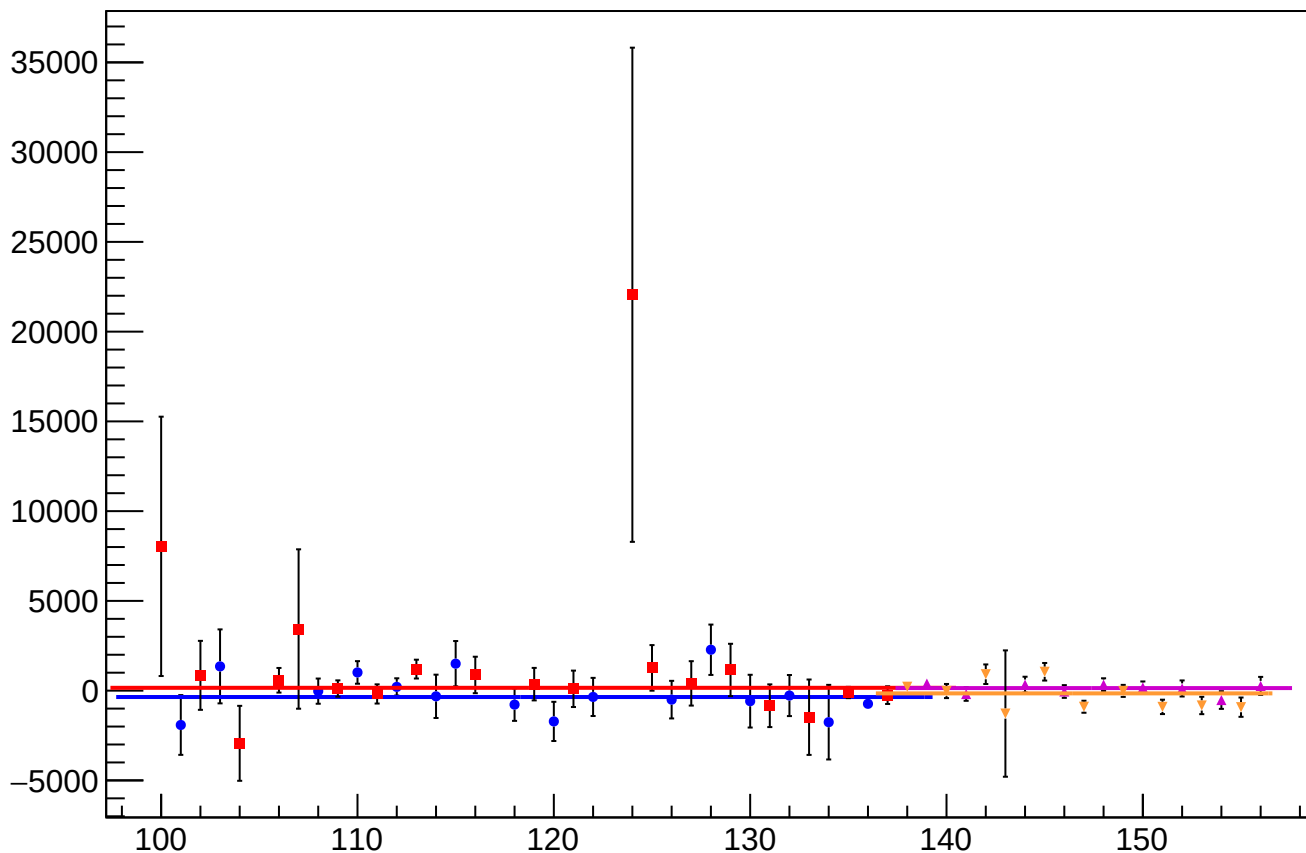
Right: 1289.984 $\pm$ 0.243 χ^2/NDF : 718684.5/34

In: 1283.439 $\pm$ 0.236 χ^2/NDF :524144.9/24

Out: 1258.747 $\pm$ 0.231 χ^2/NDF :343310.7/28

All: 1270.807 $\pm$ 0.165 χ^2/NDF : 873060.0/53

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: -152.579+/-126.272 χ^2/NDF :25.0/9

Right Out: 157.924+/-169.665 χ^2/NDF : 15.8/18

Left In: 142.761+/-125.581 χ^2/NDF :4.3/8

Left: -4.099+/-89.043 χ^2/NDF : 32.1/18

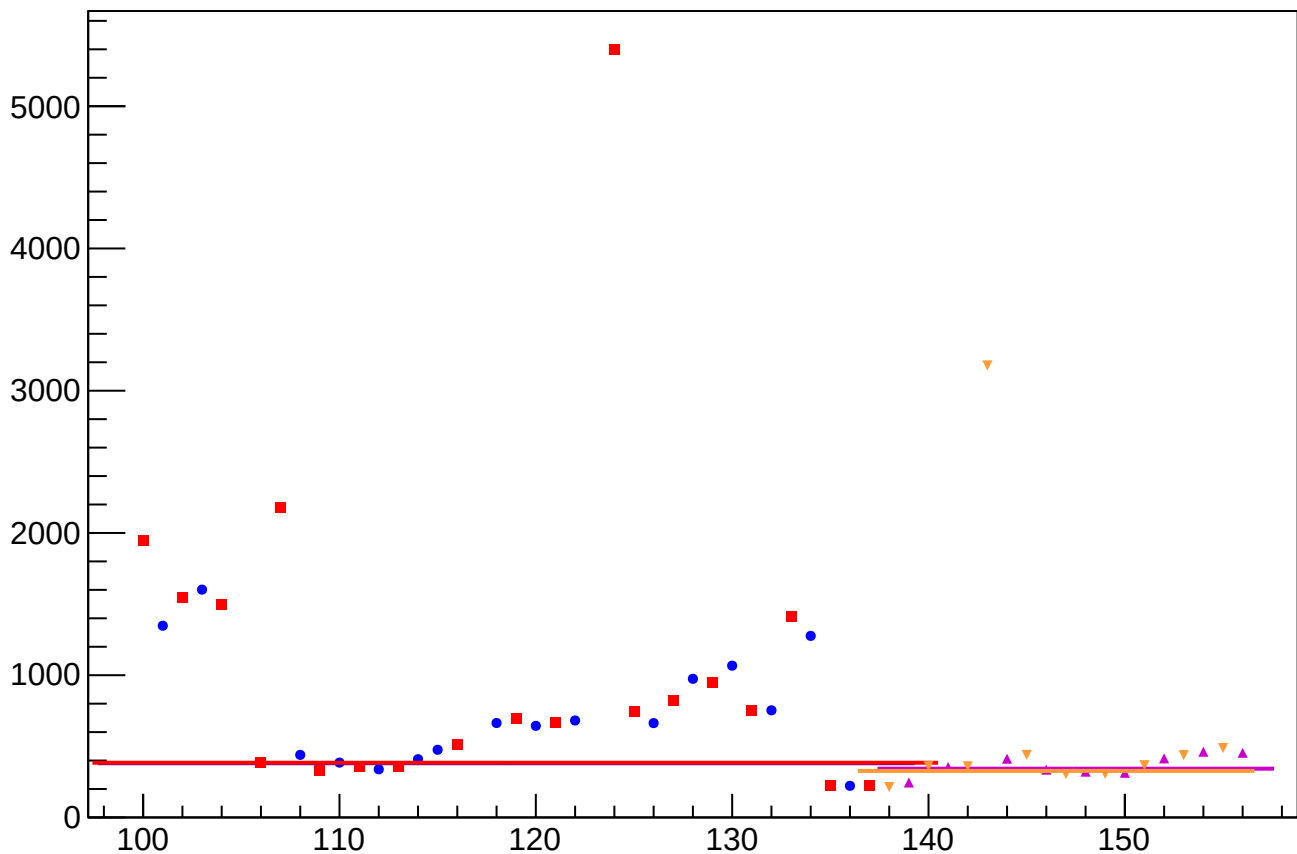
Right: -98.189+/-120.079 χ^2/NDF : 38.8/34

In: -33.089+/-101.003 χ^2/NDF :28.3/24

Out: -41.898+/-101.297 χ^2/NDF :43.0/28

All: -37.481+/-71.524 χ^2/NDF : 71.3/53

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: 327.132+/-0.089 χ^2/NDF : 2194151.6/9

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 342.867+/-0.089 χ^2/NDF : 590351.1/8

Left: 335.043+/-0.063 χ^2/NDF : 2800116.3/18

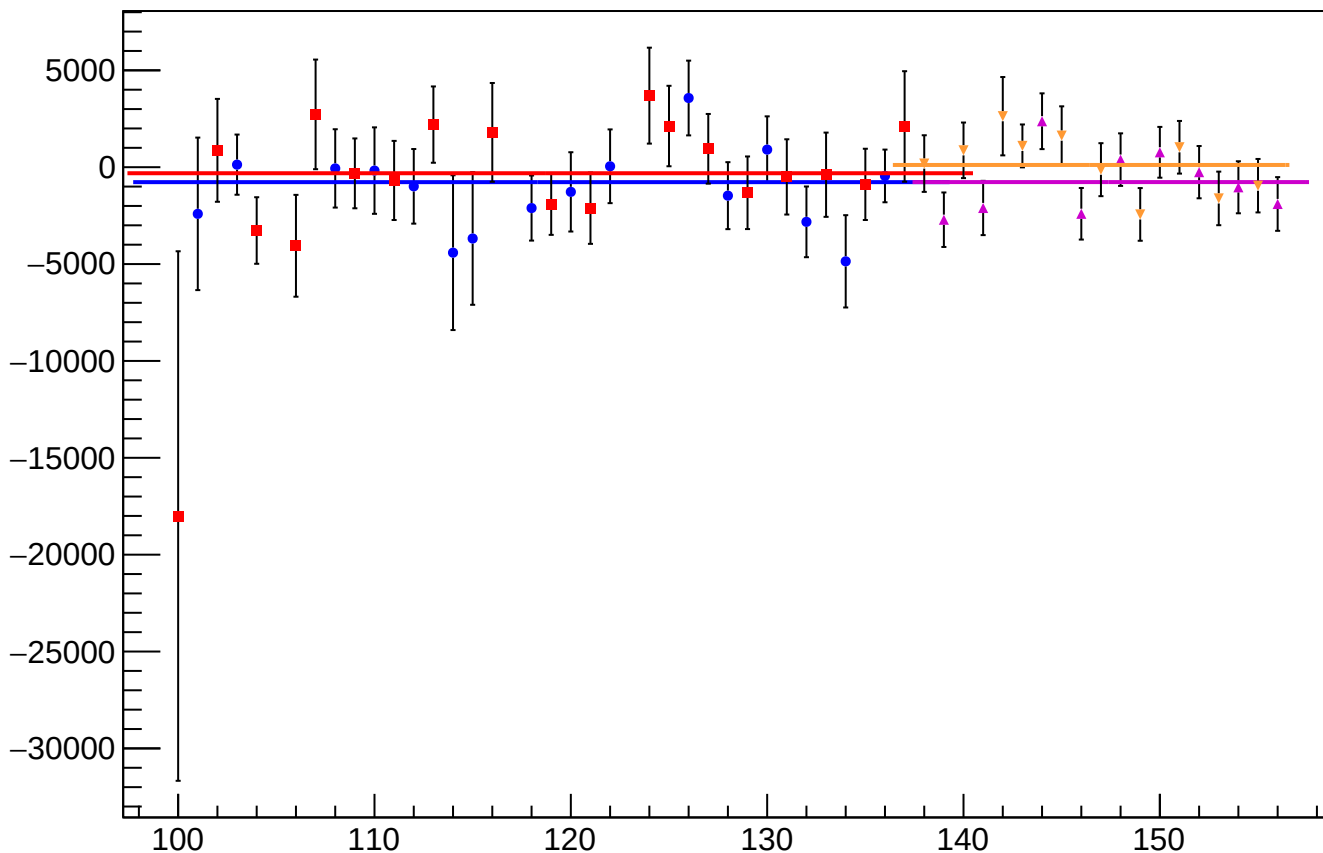
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 356.456+/-0.071 χ^2/NDF : 4974590.0/24

Out: 347.635+/-0.072 χ^2/NDF : 6902285.6/28

All: 352.058+/-0.051 χ^2/NDF : 11884480.6/53

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.501 $\pm$ 489.602 χ^2 /NDF: 13.6/15

Left Out: 115.558 $\pm$ 442.076 χ^2 /NDF:9.8/9

Right Out: -311.419 $\pm$ 482.642 χ^2 /NDF: 17.9/18

Left In: -768.446 $\pm$ 455.848 χ^2 /NDF:12.0/8

Left: -312.889 $\pm$ 317.352 χ^2 /NDF: 23.8/18

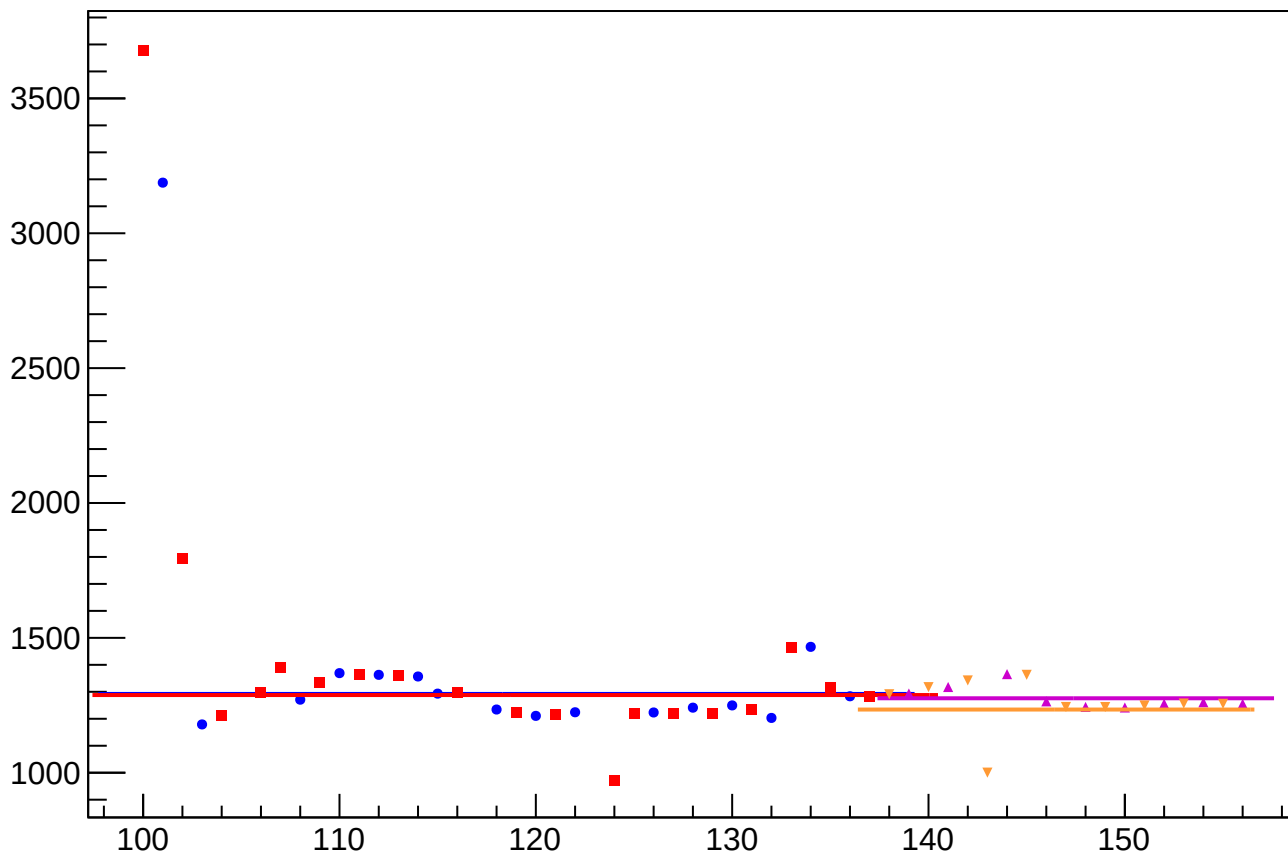
Right: -538.167 $\pm$ 343.714 χ^2 /NDF: 32.0/34

In: -769.865 $\pm$ 333.628 χ^2 /NDF:25.6/24

Out: -79.236 $\pm$ 325.995 χ^2 /NDF:28.1/28

All: -416.559 $\pm$ 233.165 χ^2 /NDF: 56.0/53

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: 1234.214+/-0.313 χ^2/NDF :120600.2/9

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1275.984+/-0.322 χ^2/NDF :13586.9/8

Left: 1254.459+/-0.224 χ^2/NDF : 142841.2/18

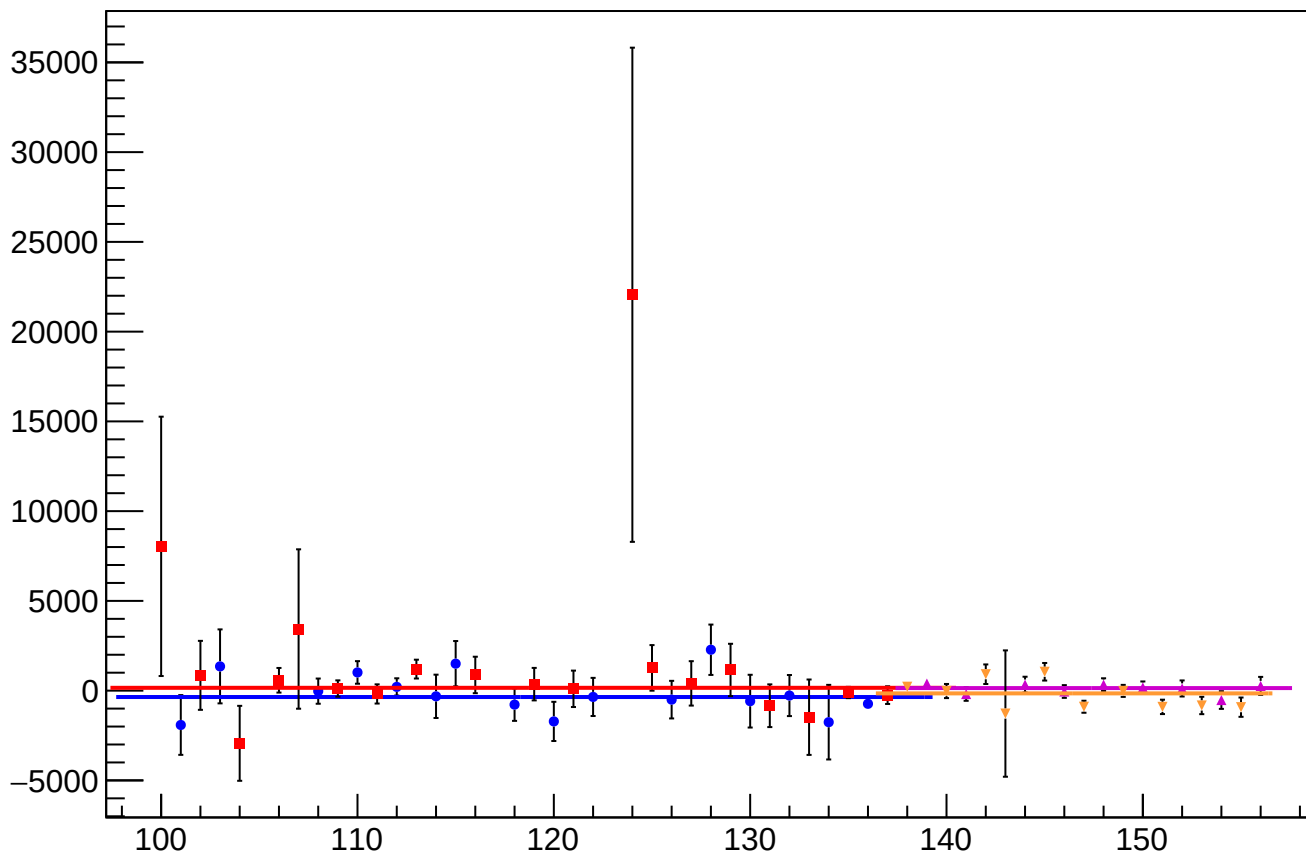
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1283.439+/-0.236 χ^2/NDF :524144.9/24

Out: 1258.747+/-0.231 χ^2/NDF :343310.1/28

All: 1270.807+/-0.165 χ^2/NDF : 873059.4/53

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.973 $\chi^2/\text{NDF}: 18.4/15$

Left Out: -152.589 ± 126.274 $\chi^2/\text{NDF}: 25.0/9$

Right Out: 157.929 ± 169.667 $\chi^2/\text{NDF}: 15.8/18$

Left In: 142.762 ± 125.583 $\chi^2/\text{NDF}: 4.3/8$

Left: -4.103 ± 89.044 $\chi^2/\text{NDF}: 32.1/18$

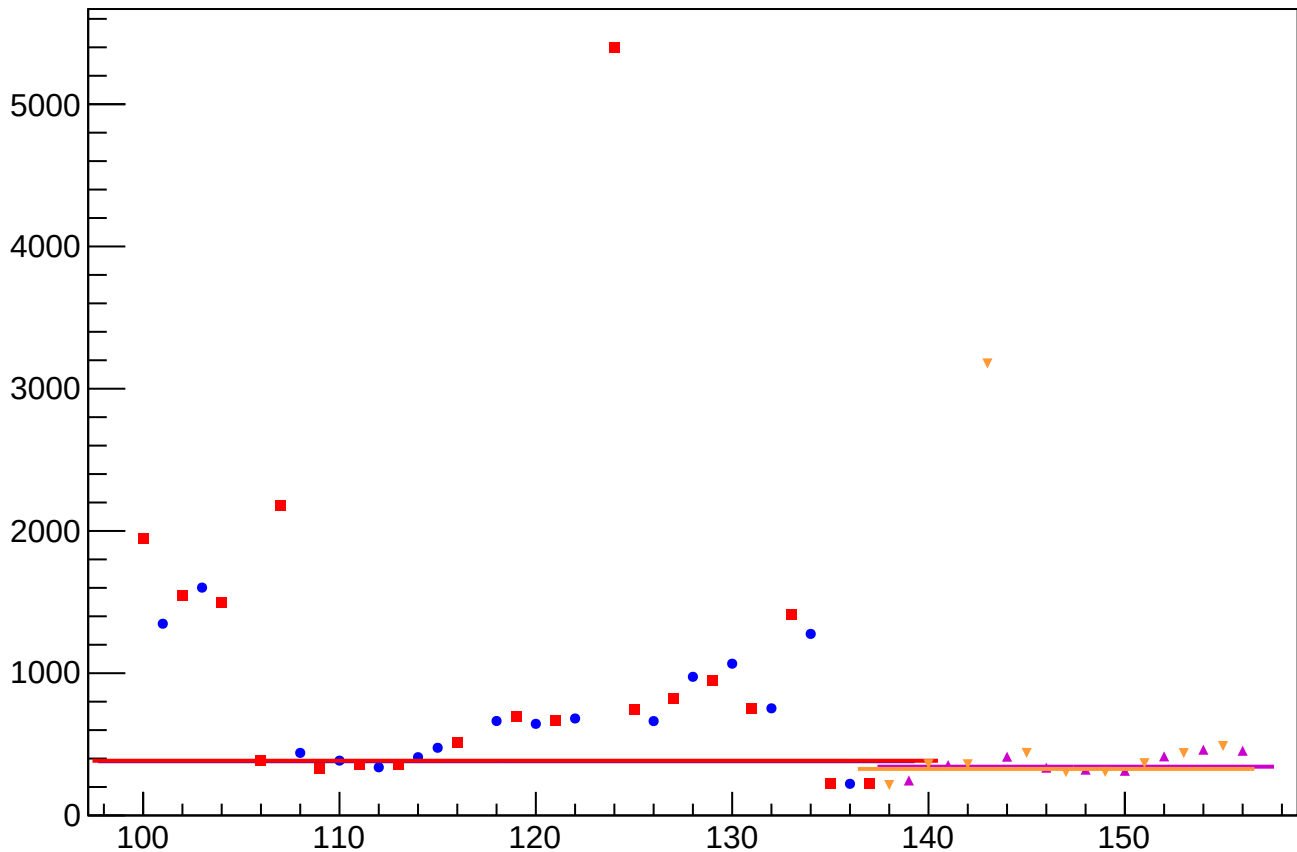
Right: -98.185 ± 120.081 $\chi^2/\text{NDF}: 38.8/34$

In: -33.087 ± 101.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -41.902 ± 101.298 $\chi^2/\text{NDF}: 43.0/28$

All: -37.482 ± 71.525 $\chi^2/\text{NDF}: 71.3/53$

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: 327.139+/-0.089 χ^2/NDF : 2194008.2/9

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 342.872+/-0.089 χ^2/NDF : 590261.4/8

Left: 335.049+/-0.063 χ^2/NDF : 2799878.6/18

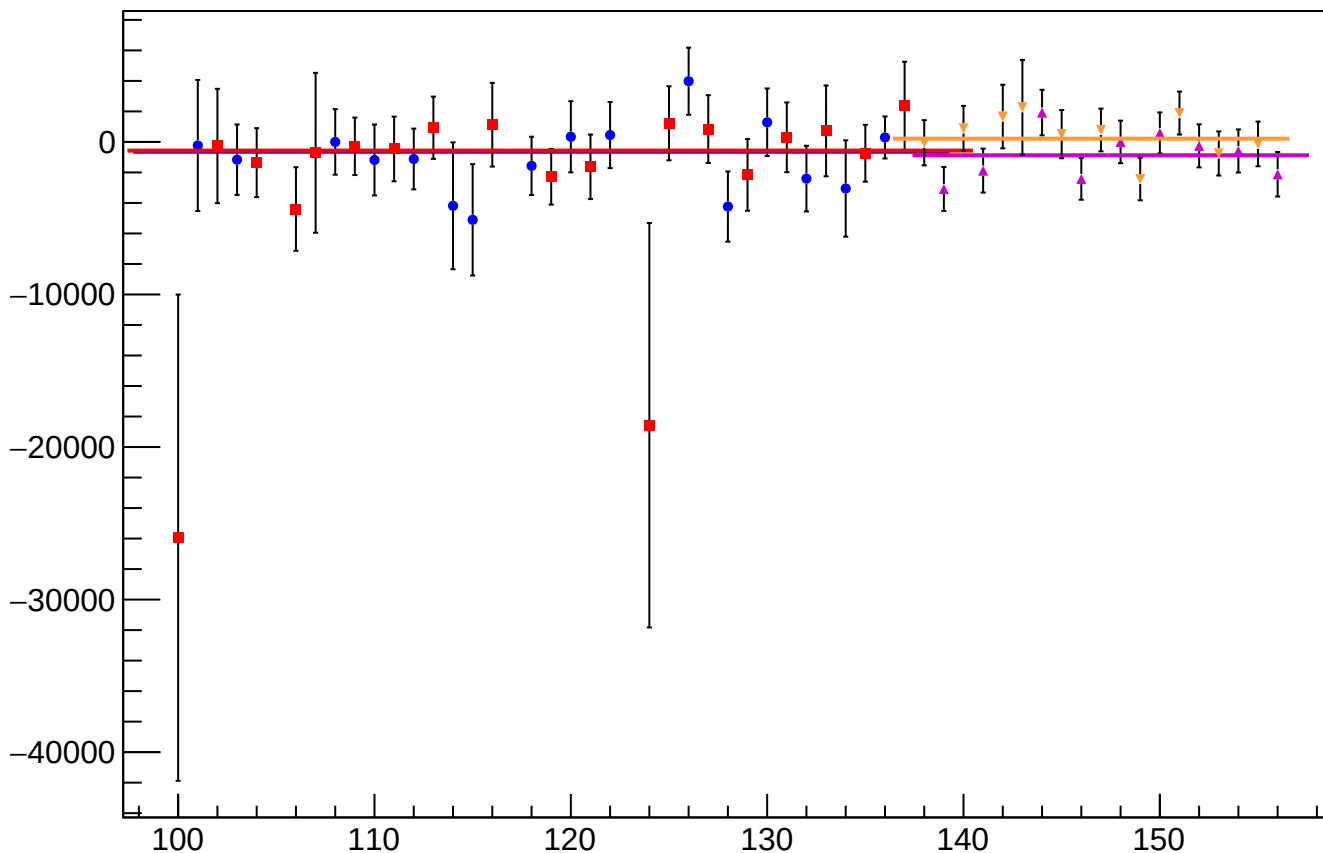
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 356.463+/-0.071 χ^2/NDF : 4974330.7/24

Out: 347.642+/-0.072 χ^2/NDF : 6902001.6/28

All: 352.065+/-0.051 χ^2/NDF : 11883935.6/53

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: 214.900+/-492.580 χ^2/NDF : 6.9/9

Right Out: -567.254+/-566.774 χ^2/NDF : 11.3/18

Left In: -873.767+/-471.969 χ^2/NDF : 10.2/8

Left: -352.687+/-340.786 χ^2/NDF : 19.6/18

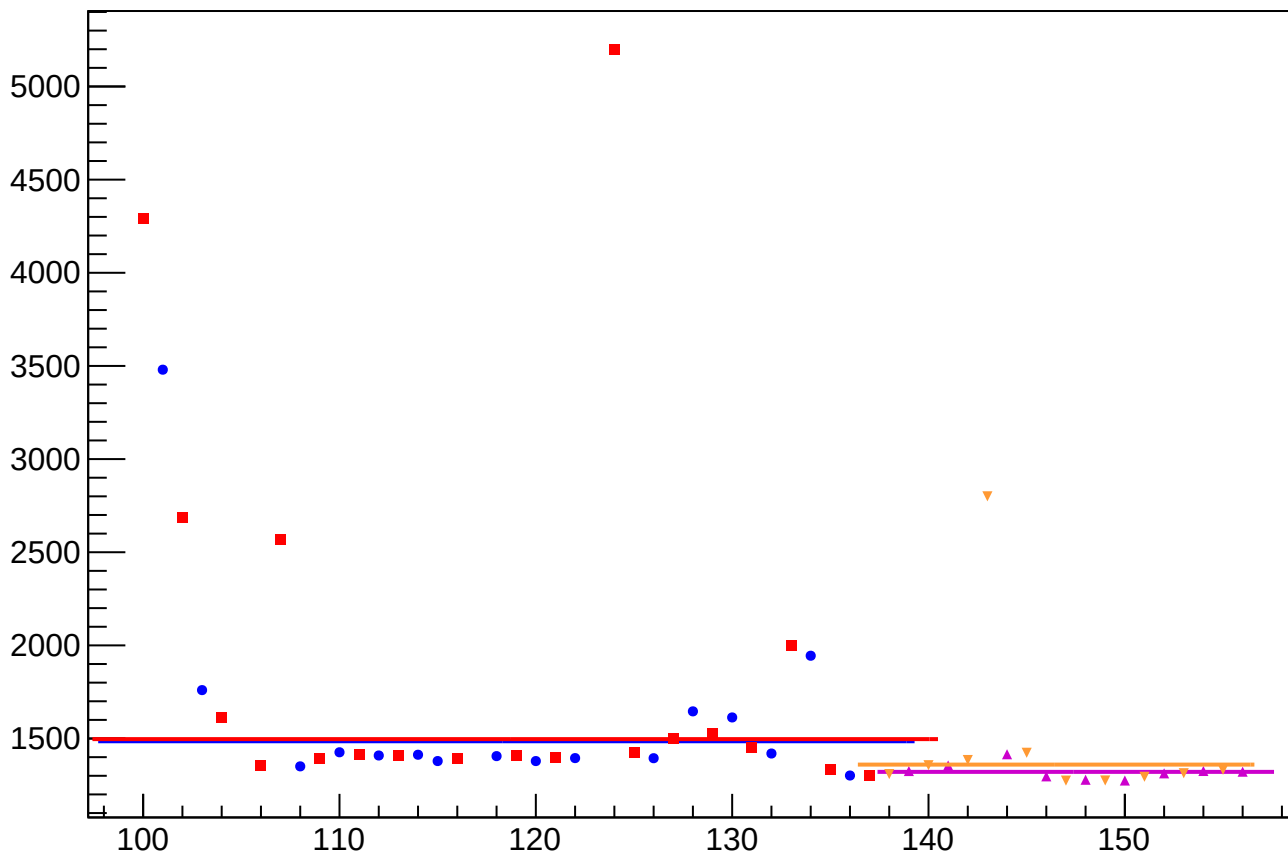
Right: -604.196+/-399.916 χ^2/NDF : 23.8/34

In: -777.900+/-362.051 χ^2/NDF : 22.8/24

Out: -121.665+/-371.791 χ^2/NDF : 19.3/28

All: -458.491+/-259.384 χ^2/NDF : 43.7/53

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: 1360.086+/-0.348 χ^2/NDF : 458665.9/9

Right Out: 1496.865+/-0.401 χ^2/NDF : 623292.7/18

Left In: 1321.043+/-0.334 χ^2/NDF : 14125.3/8

Left: 1339.731+/-0.241 χ^2/NDF : 479342.2/18

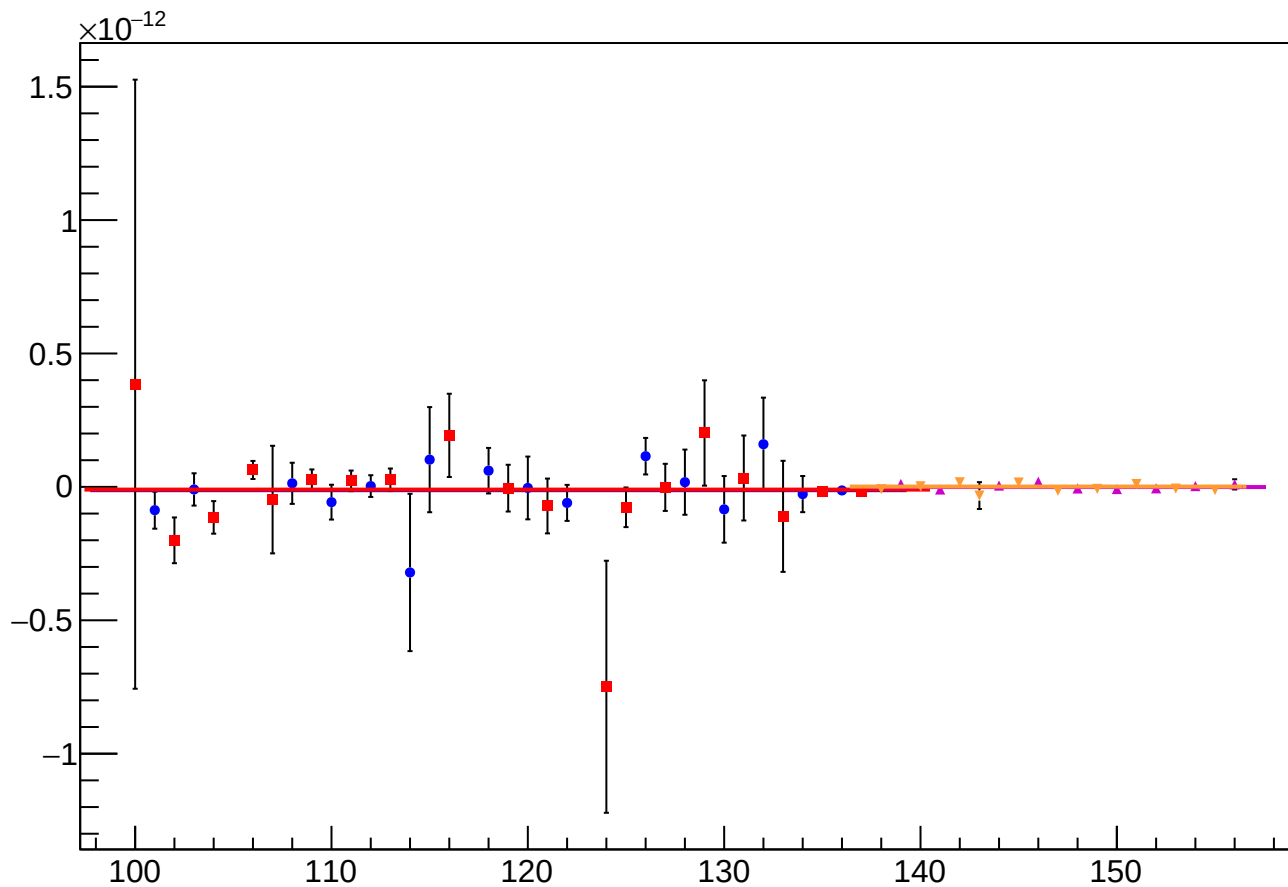
Right: 1491.093+/-0.283 χ^2/NDF : 1208175.9/34

In: 1388.671+/-0.256 χ^2/NDF : 698374.9/24

Out: 1418.943+/-0.263 χ^2/NDF : 1148316.7/28

All: 1403.406+/-0.183 χ^2/NDF : 1853497.2/53

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 :10.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: -0.000+/-0.000 χ^2/NDF :9.3/8

Left: 0.000+/-0.000 χ^2/NDF : 20.2/18

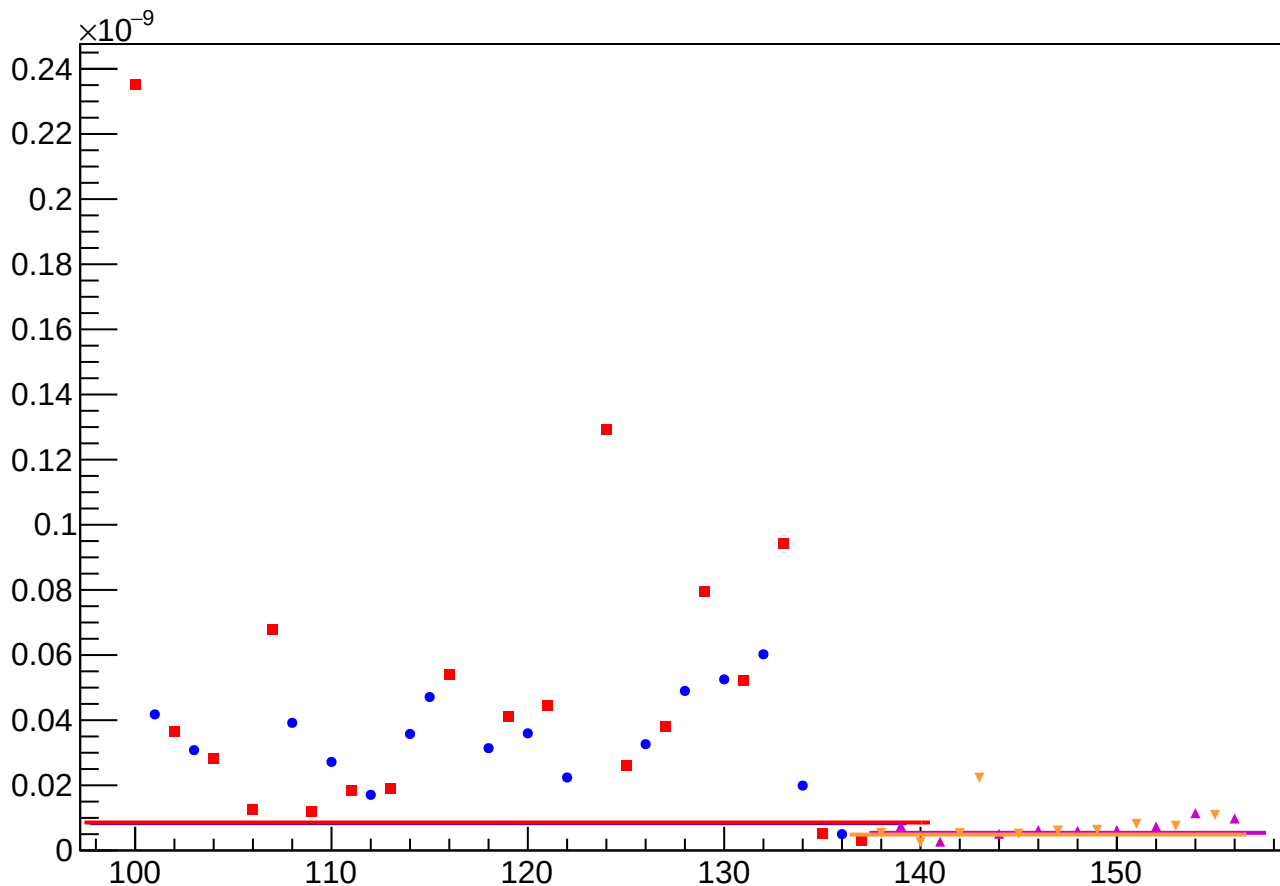
Right: -0.000+/-0.000 χ^2/NDF : 31.8/34

In: -0.000+/-0.000 χ^2/NDF :20.8/24

Out: -0.000+/-0.000 χ^2/NDF :34.9/28

All: -0.000+/-0.000 χ^2/NDF : 56.0/53

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 :1252627.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3348571.5/18

Left In: 0.000+/-0.000 χ^2/NDF :920257.9/8

Left: 0.000+/-0.000 χ^2/NDF : 2202115.0/18

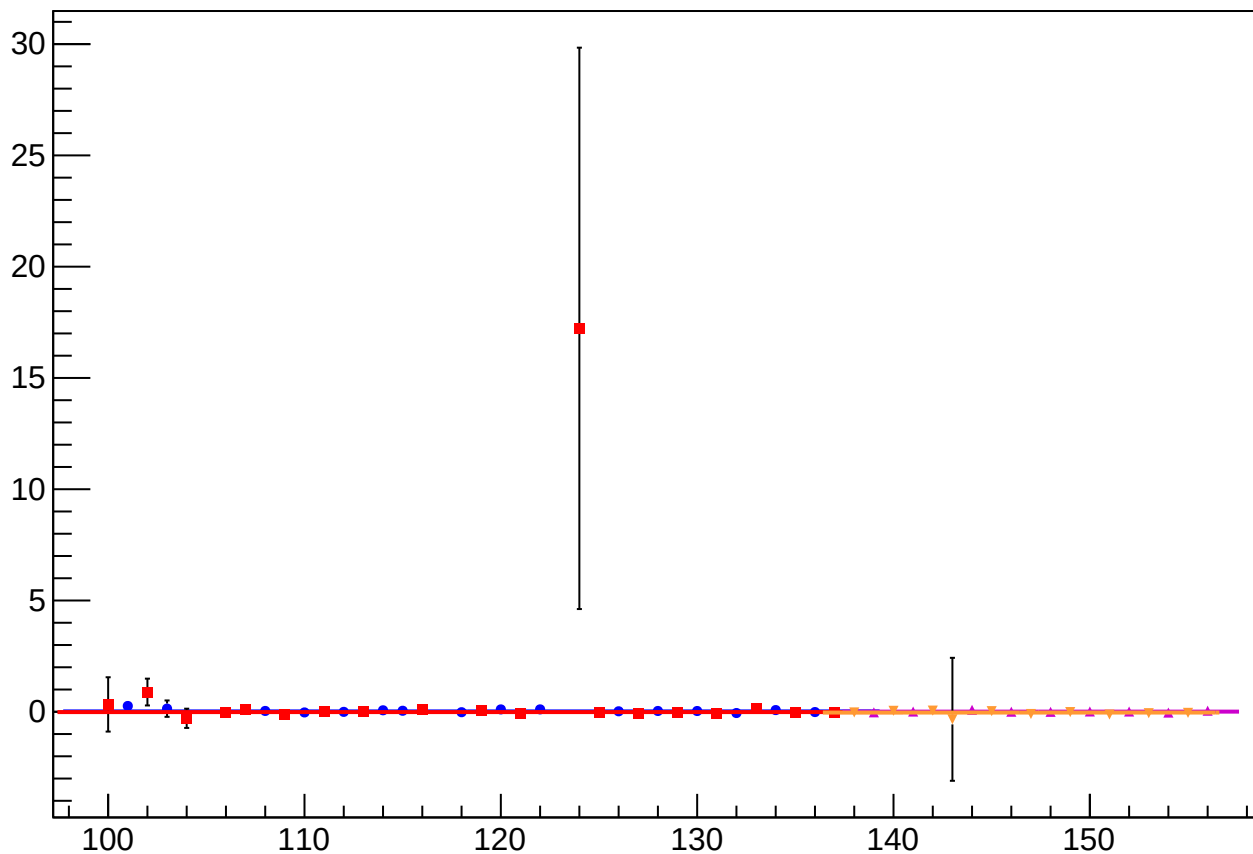
Right: 0.000+/-0.000 χ^2/NDF : 6408892.5/34

In: 0.000+/-0.000 χ^2/NDF :4247668.2/24

Out: 0.000+/-0.000 χ^2/NDF :4974849.0/28

All: 0.000+/-0.000 χ^2/NDF : 9258530.3/53

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.015 χ^2 /NDF: 11.5/15

Left Out: -0.035 $\pm$ 0.014 χ^2 /NDF:15.3/9

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: 0.007 $\pm$ 0.014 χ^2 /NDF:4.9/8

Left: -0.014 $\pm$ 0.010 χ^2 /NDF: 25.0/18

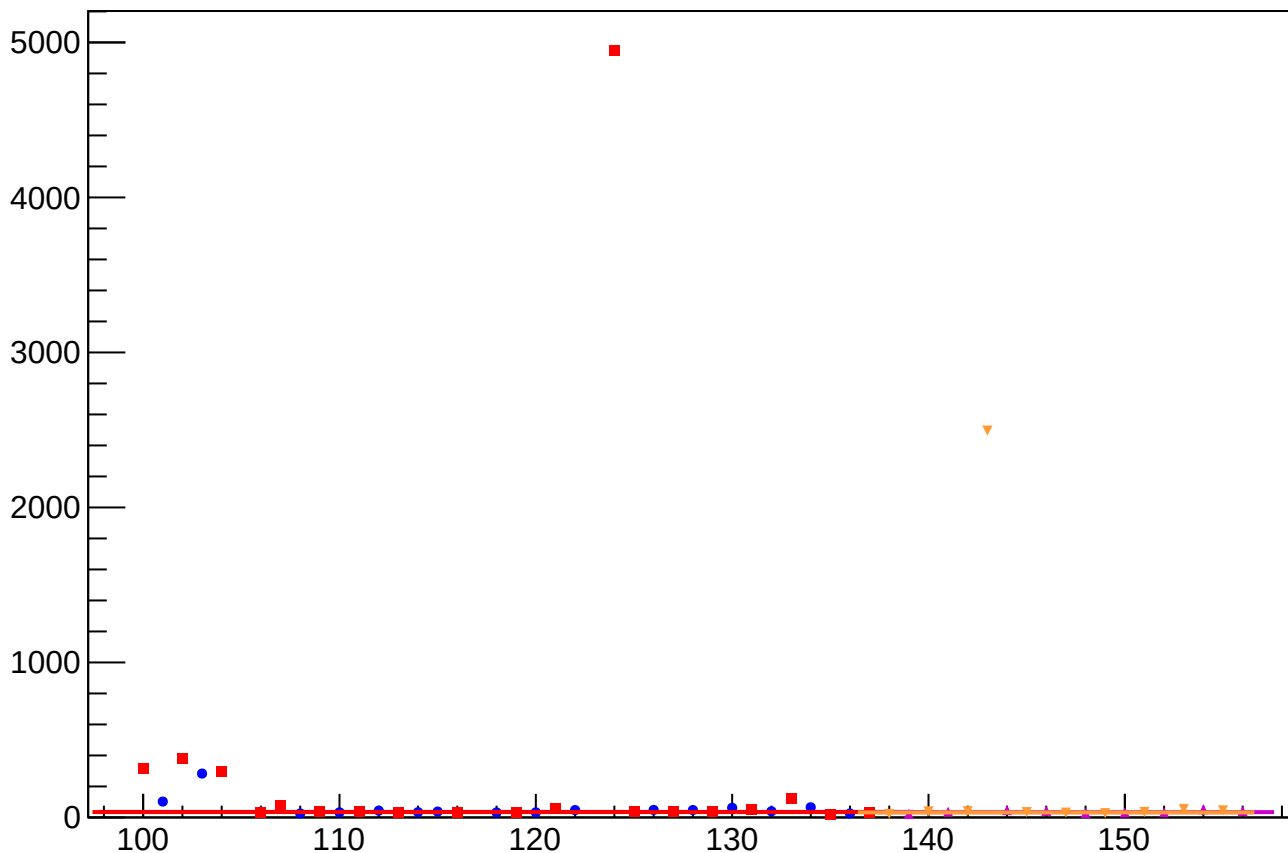
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:16.6/24

Out: -0.026 $\pm$ 0.010 χ^2 /NDF:32.4/28

All: -0.007 $\pm$ 0.007 χ^2 /NDF: 55.5/53

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: 32.503 $\pm$ 0.010 χ^2 /NDF: 2349928.5/9

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 34.278 $\pm$ 0.010 χ^2 /NDF: 758169.4/8

Left: 33.389 $\pm$ 0.007 χ^2 /NDF: 3125346.9/18

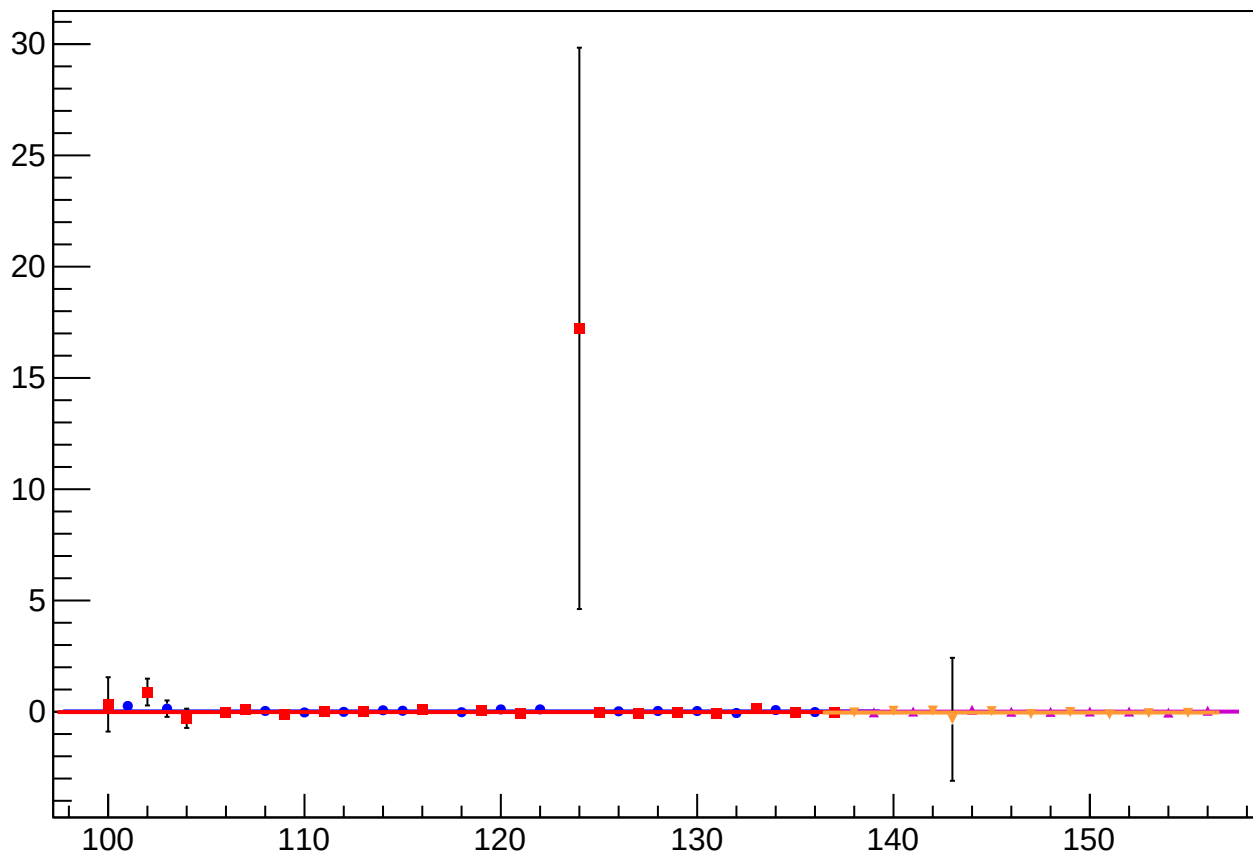
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 34.913 $\pm$ 0.007 χ^2 /NDF: 3033121.3/24

Out: 33.484 $\pm$ 0.007 χ^2 /NDF: 5288751.3/28

All: 34.201 $\pm$ 0.005 χ^2 /NDF: 8341529.0/53

asym_atl_avg_atr_avg_dd_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: -0.035 $\pm$ 0.014 χ^2 /NDF:15.3/9

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: 0.007 $\pm$ 0.014 χ^2 /NDF:4.9/8

Left: -0.014 $\pm$ 0.010 χ^2 /NDF: 25.0/18

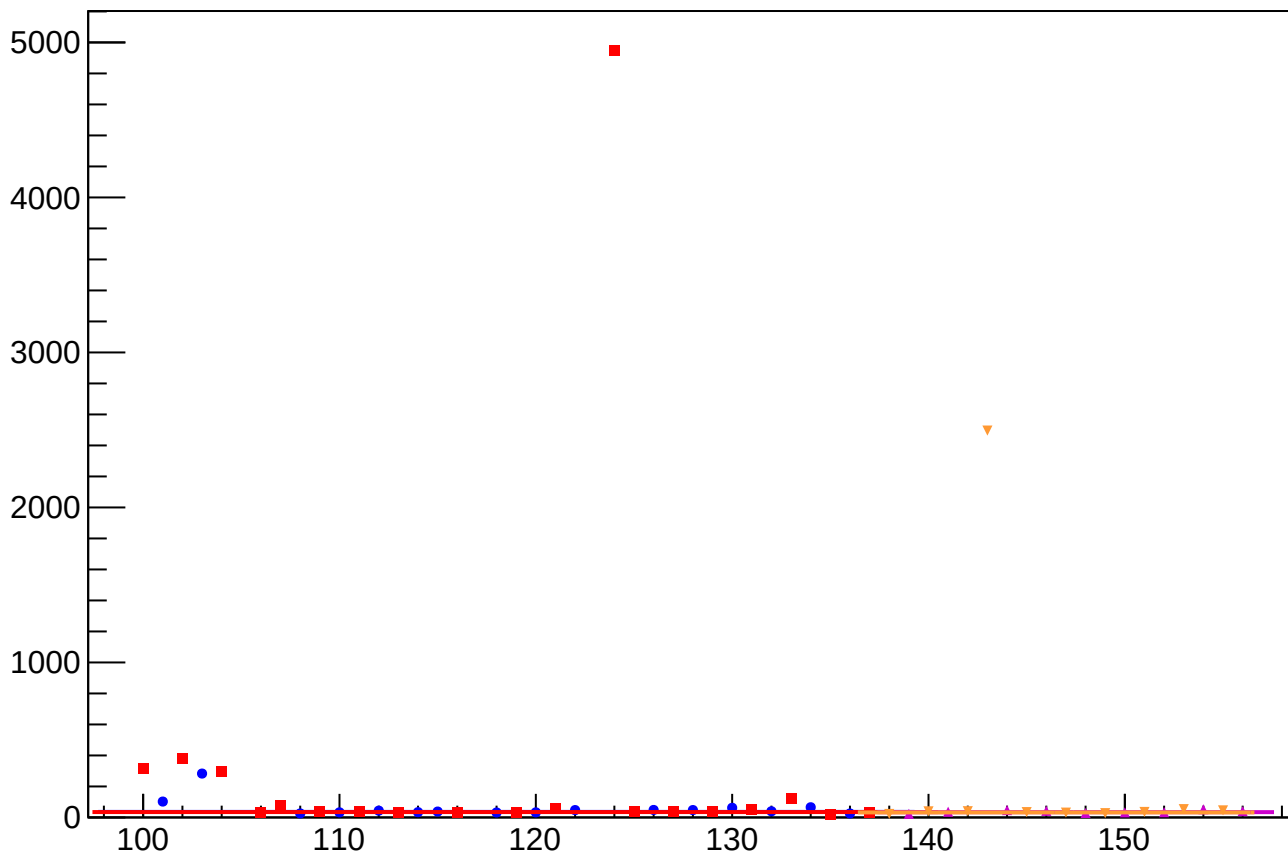
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:16.6/24

Out: -0.026 $\pm$ 0.010 χ^2 /NDF:32.4/28

All: -0.007 $\pm$ 0.007 χ^2 /NDF: 55.5/53

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: 32.503 $\pm$ 0.010 χ^2 /NDF: 2349928.5/9

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 34.278 $\pm$ 0.010 χ^2 /NDF: 758169.4/8

Left: 33.389 $\pm$ 0.007 χ^2 /NDF: 3125346.9/18

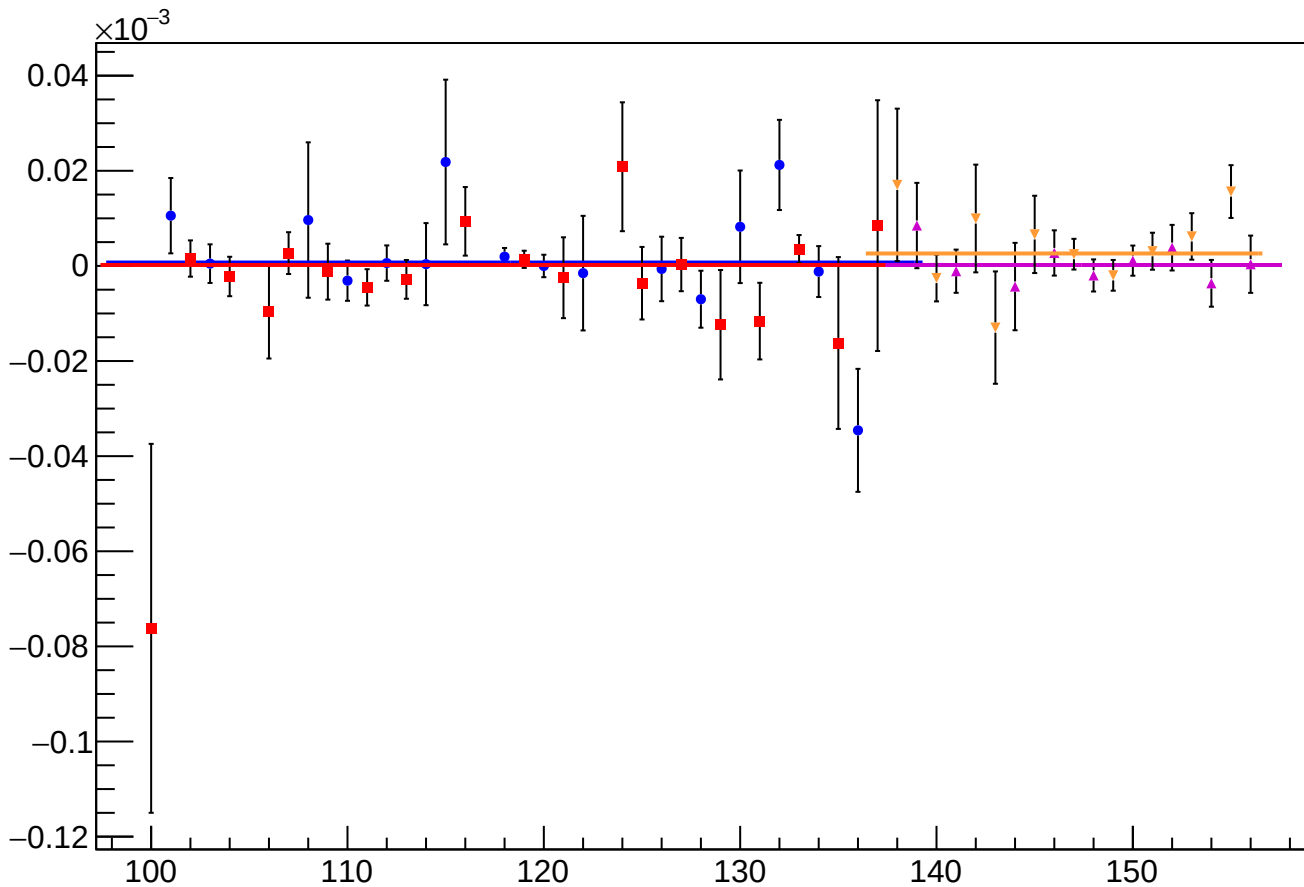
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 34.913 $\pm$ 0.007 χ^2 /NDF: 3033121.3/24

Out: 33.484 $\pm$ 0.007 χ^2 /NDF: 5288751.3/28

All: 34.201 $\pm$ 0.005 χ^2 /NDF: 8341529.0/53

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:12.4/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:3.2/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.8/18

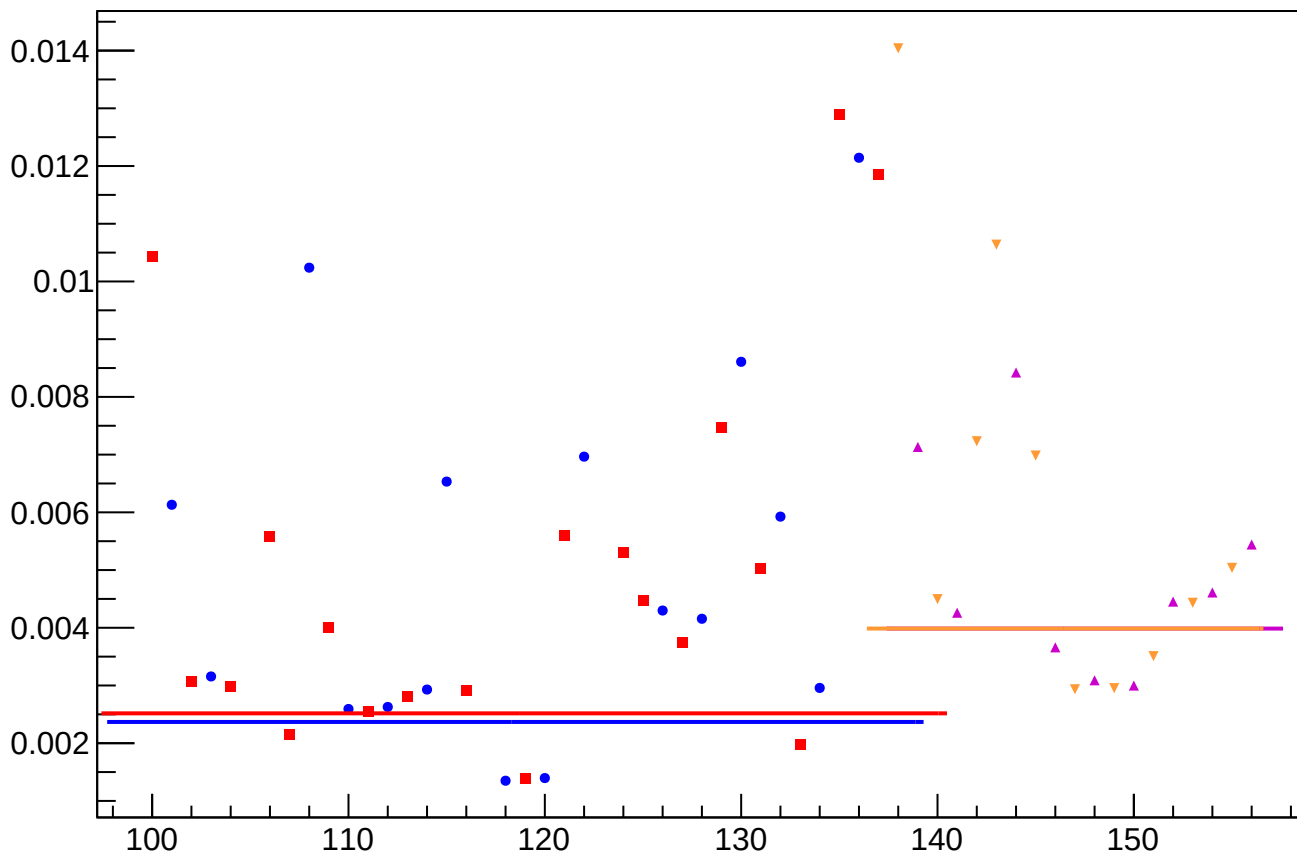
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.3/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:32.1/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 54.5/53

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: 0.004+/-0.000 χ^2/NDF :2413689.4/9

Right Out: 0.003+/-0.000 χ^2/NDF : 3397462.9/18

Left In: 0.004+/-0.000 χ^2/NDF :1232451.2/8

Left: 0.004+/-0.000 χ^2/NDF : 3646140.7/18

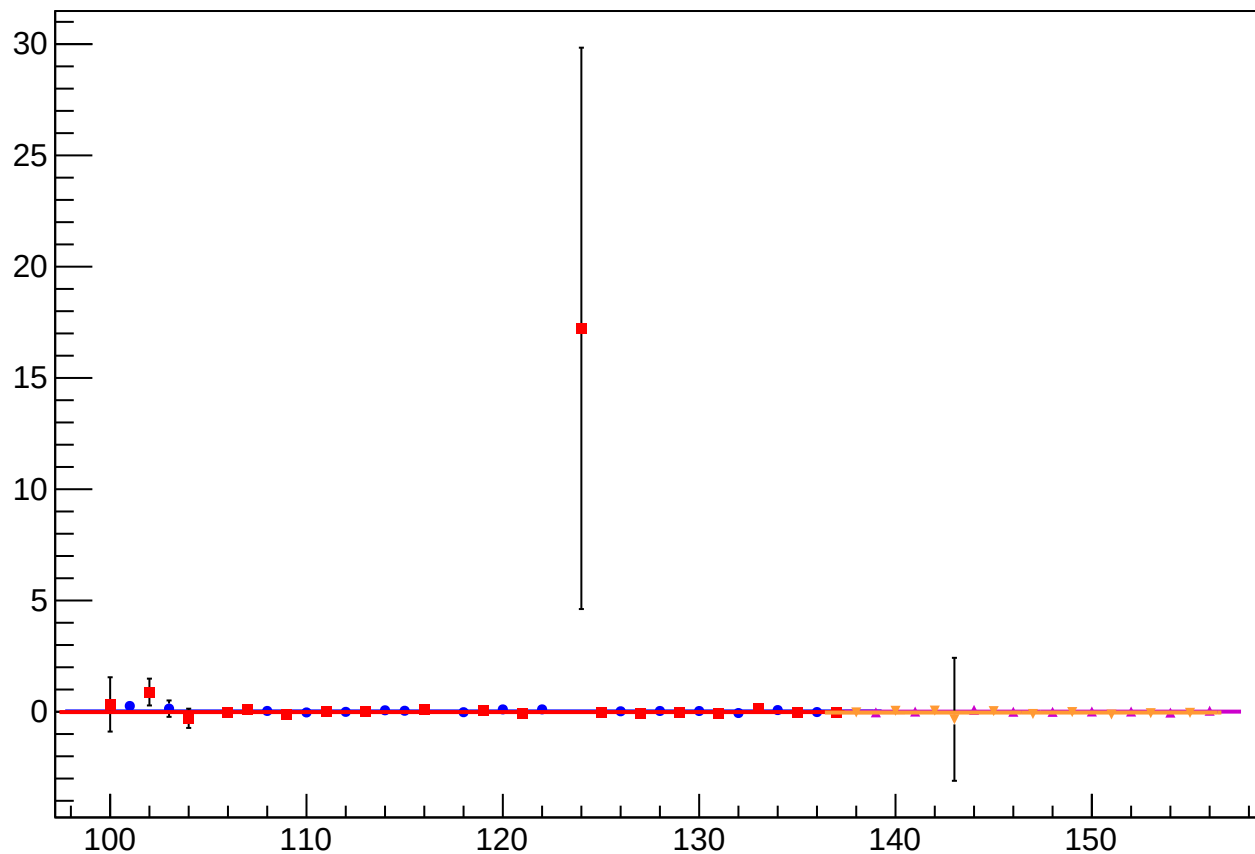
Right: 0.002+/-0.000 χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000 χ^2/NDF :7398293.2/24

Out: 0.003+/-0.000 χ^2/NDF :7014937.1/28

All: 0.003+/-0.000 χ^2/NDF : 14418860.6/53

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -0.035 ± 0.014 $\chi^2/\text{NDF}: 15.3/9$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.007 ± 0.014 $\chi^2/\text{NDF}: 4.9/8$

Left: -0.014 ± 0.010 $\chi^2/\text{NDF}: 25.0/18$

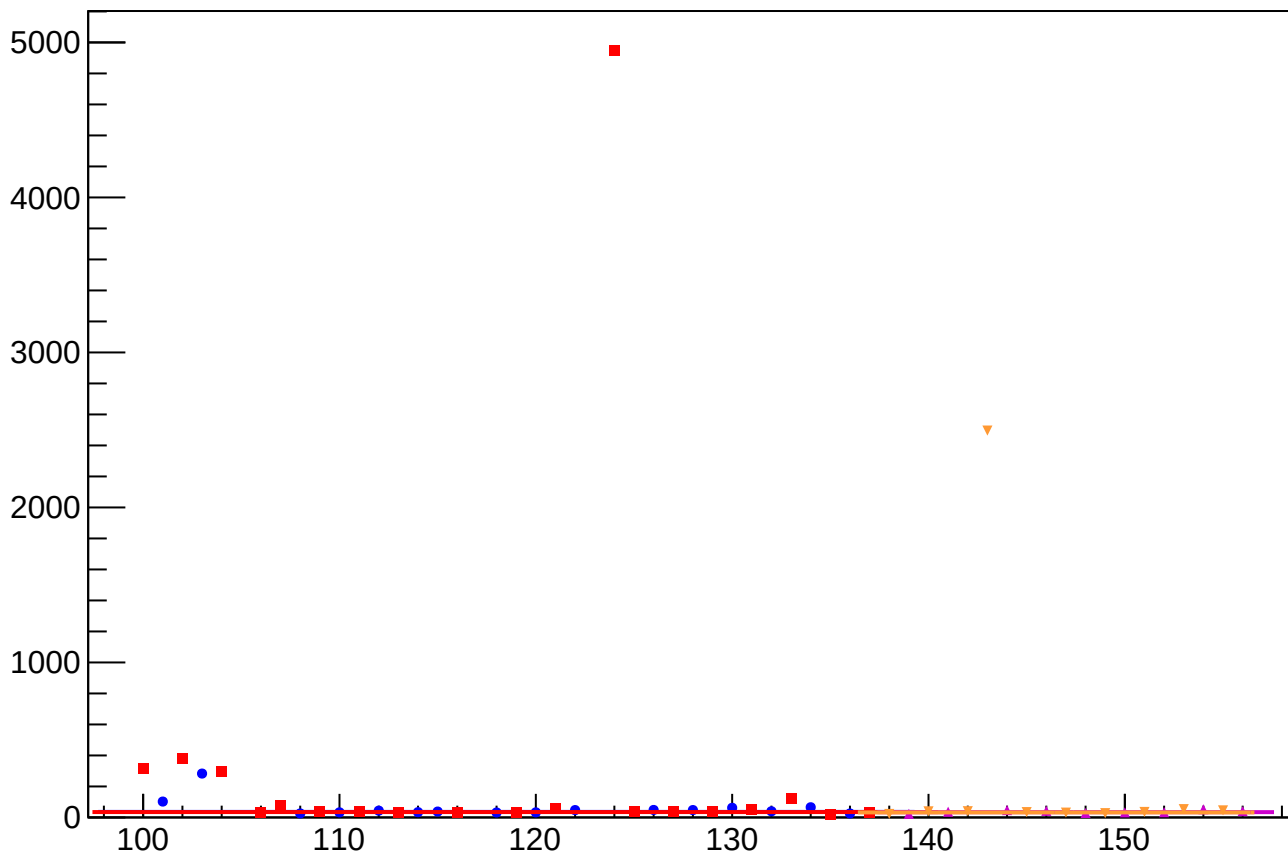
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.011 ± 0.010 $\chi^2/\text{NDF}: 16.6/24$

Out: -0.026 ± 0.010 $\chi^2/\text{NDF}: 32.4/28$

All: -0.007 ± 0.007 $\chi^2/\text{NDF}: 55.5/53$

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: 32.503+/-0.010 χ^2/NDF : 2350188.4/9

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 34.276+/-0.010 χ^2/NDF : 758622.9/8

Left: 33.388+/-0.007 χ^2/NDF : 3126028.9/18

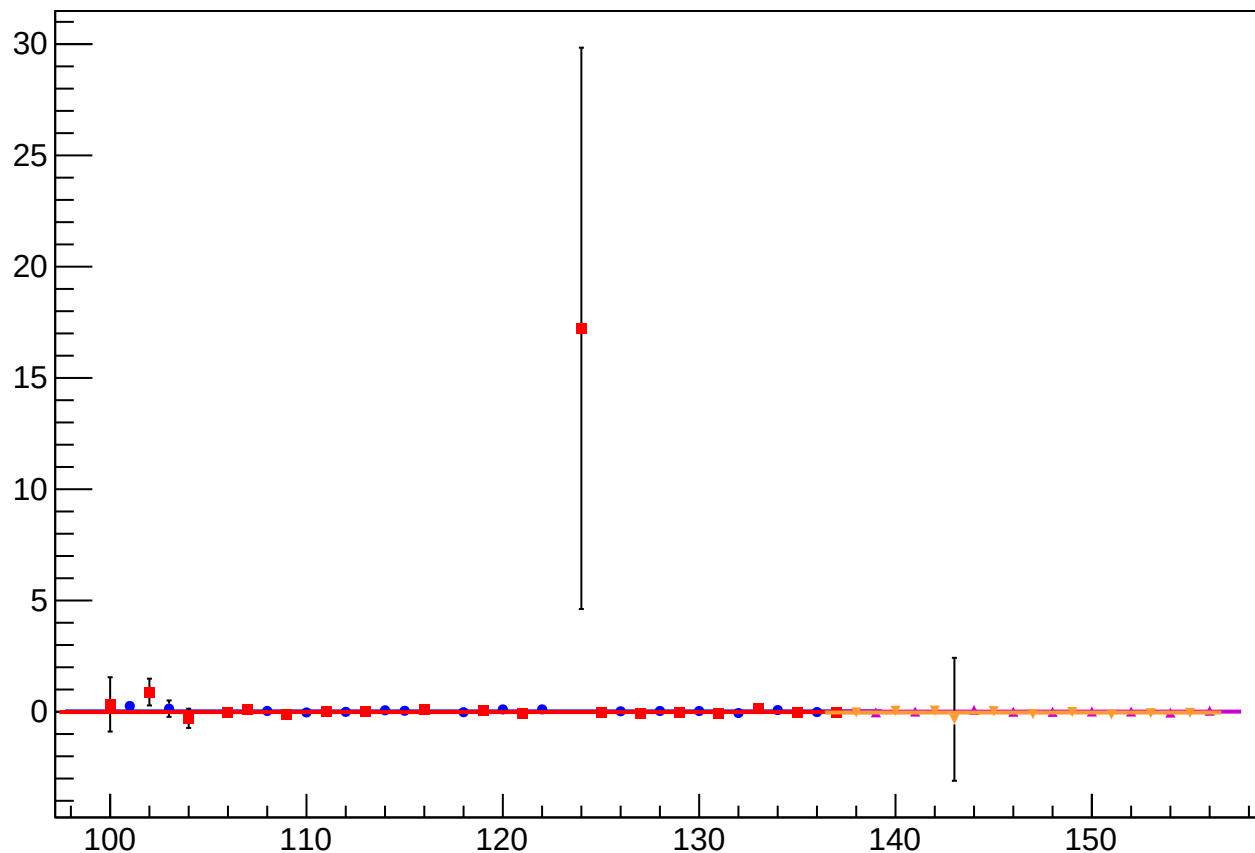
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 34.913+/-0.007 χ^2/NDF : 3033343.8/24

Out: 33.484+/-0.007 χ^2/NDF : 5288859.4/28

All: 34.201+/-0.005 χ^2/NDF : 8341840.7/53

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.015 χ^2/NDF : 11.5/15

Left Out: -0.035+/-0.014 χ^2/NDF :15.3/9

Right Out: -0.014+/-0.016 χ^2/NDF : 16.0/18

Left In: 0.007+/-0.014 χ^2/NDF :4.9/8

Left: -0.014+/-0.010 χ^2/NDF : 25.0/18

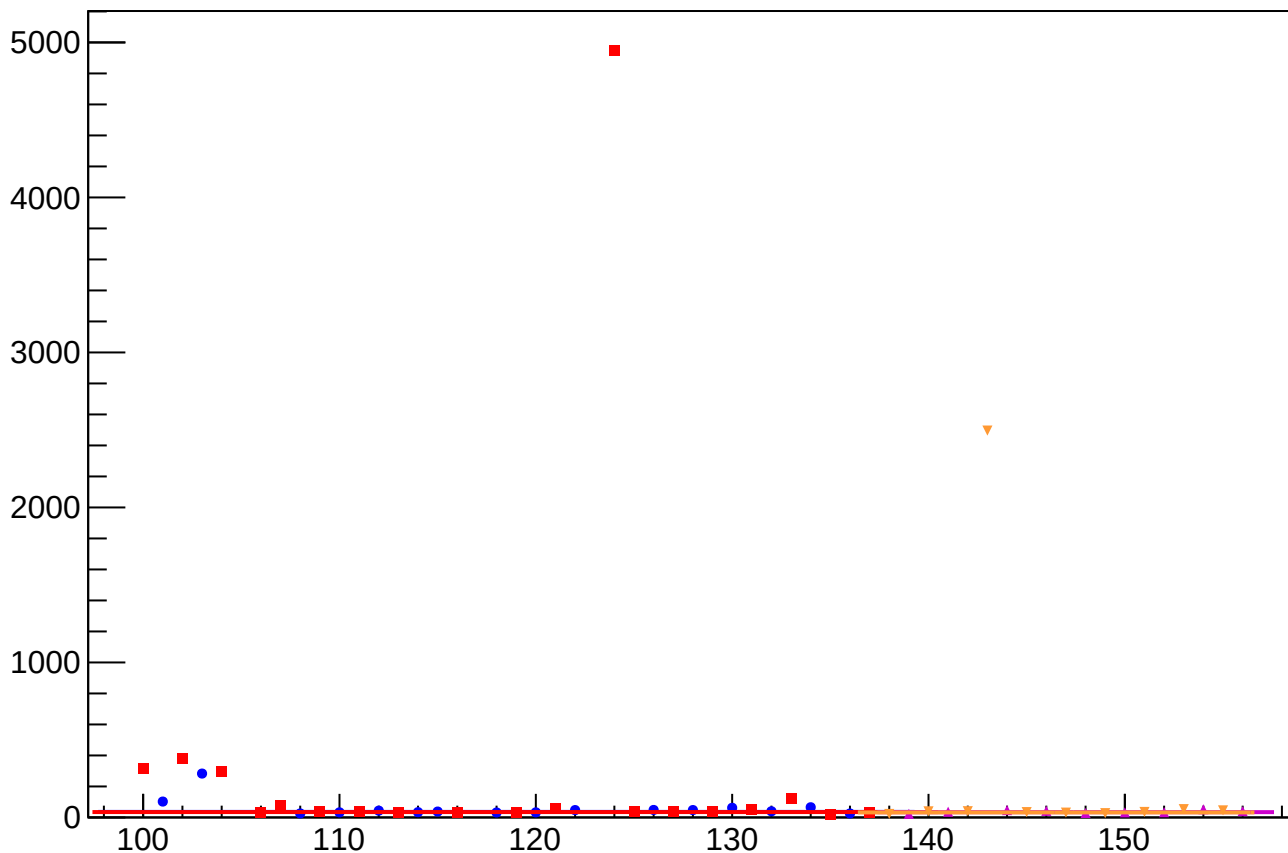
Right: 0.002+/-0.011 χ^2/NDF : 29.4/34

In: 0.011+/-0.010 χ^2/NDF :16.6/24

Out: -0.026+/-0.010 χ^2/NDF :32.4/28

All: -0.007+/-0.007 χ^2/NDF : 55.5/53

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: 32.503+/-0.010 χ^2/NDF : 2350188.4/9

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 34.276+/-0.010 χ^2/NDF : 758622.9/8

Left: 33.388+/-0.007 χ^2/NDF : 3126028.9/18

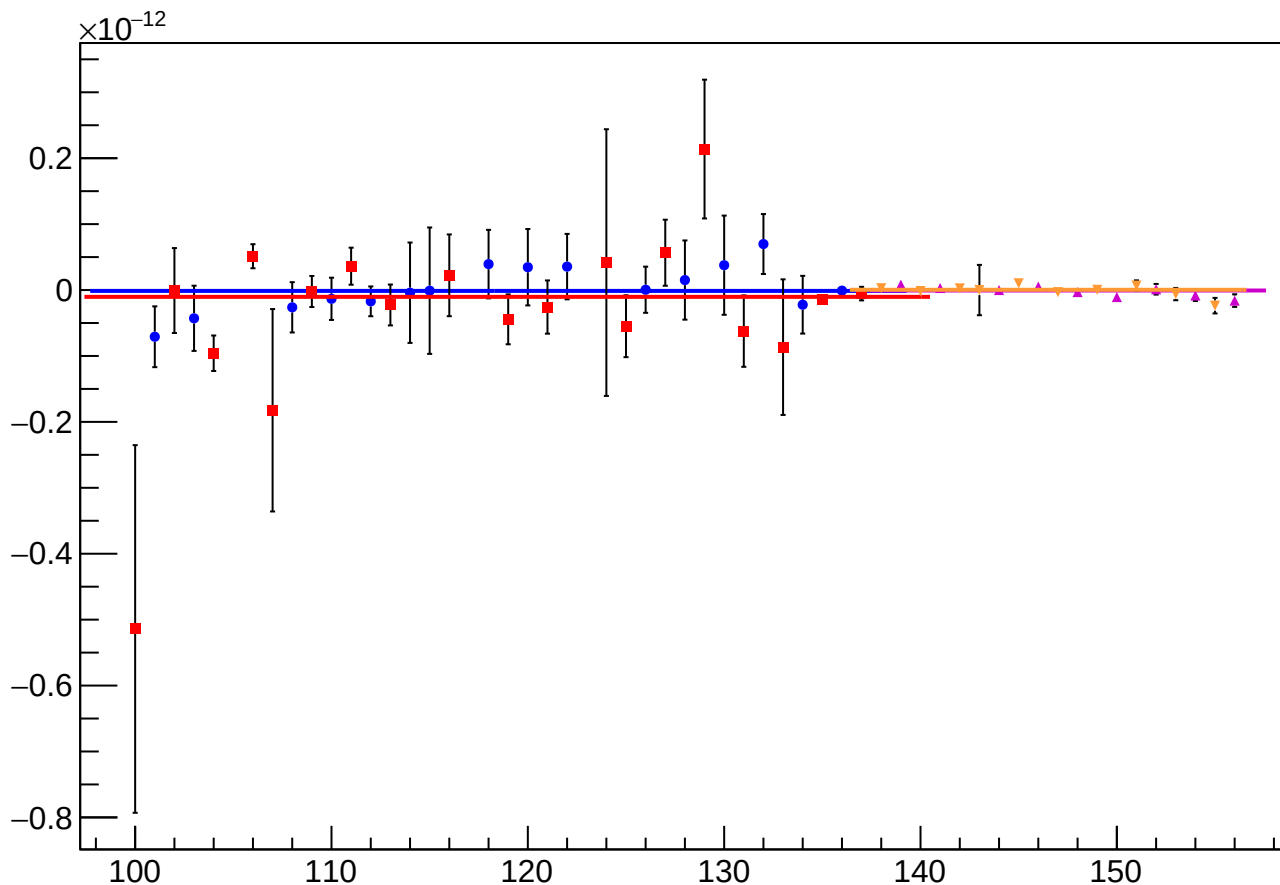
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 34.913+/-0.007 χ^2/NDF : 3033343.8/24

Out: 33.484+/-0.007 χ^2/NDF : 5288859.4/28

All: 34.201+/-0.005 χ^2/NDF : 8341840.7/53

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 : 8.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 39.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.0/8

Left: -0.000+/-0.000 χ^2/NDF : 19.8/18

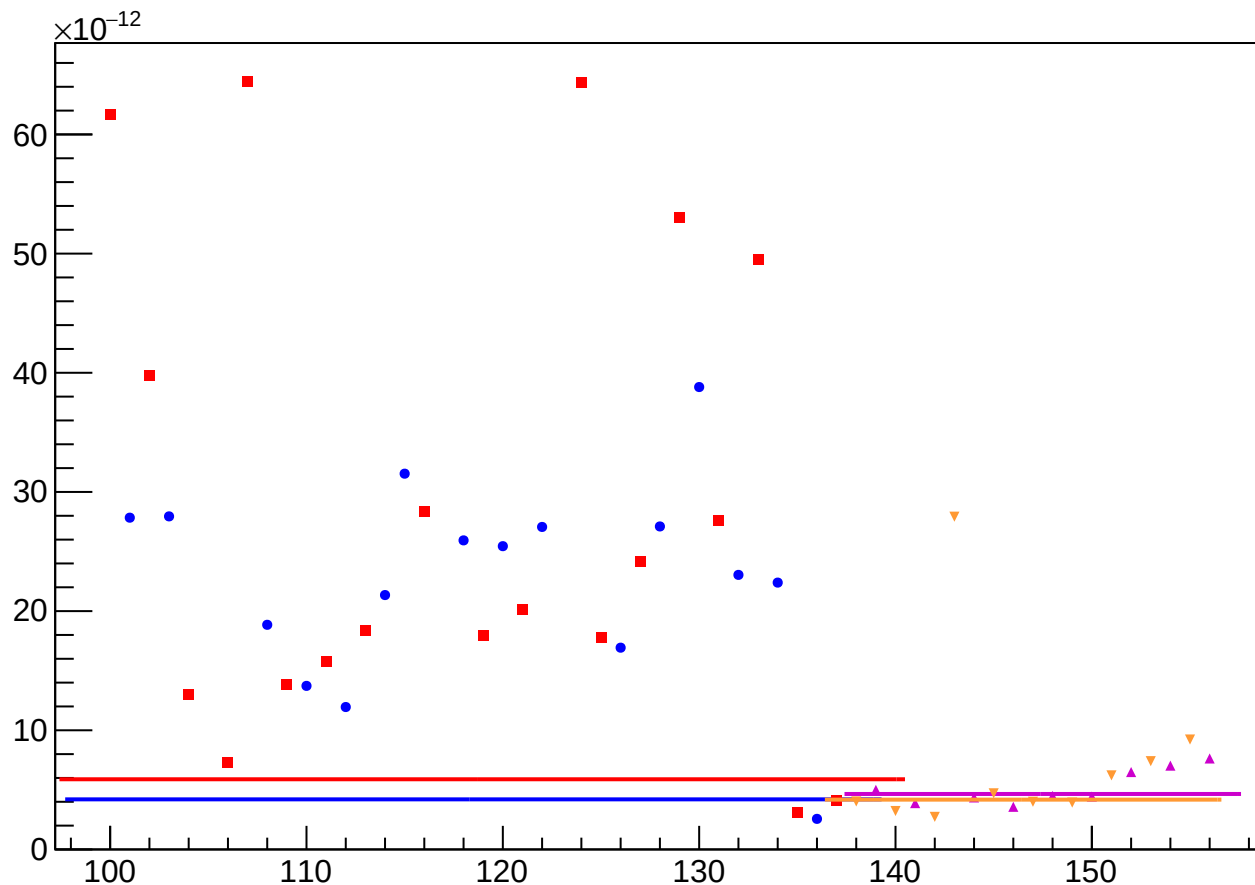
Right: -0.000+/-0.000 χ^2/NDF : 51.3/34

In: -0.000+/-0.000 χ^2/NDF : 19.7/24

Out: -0.000+/-0.000 χ^2/NDF : 53.9/28

All: -0.000+/-0.000 χ^2/NDF : 73.7/53

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 : 1800624.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 629811.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2487934.2/18

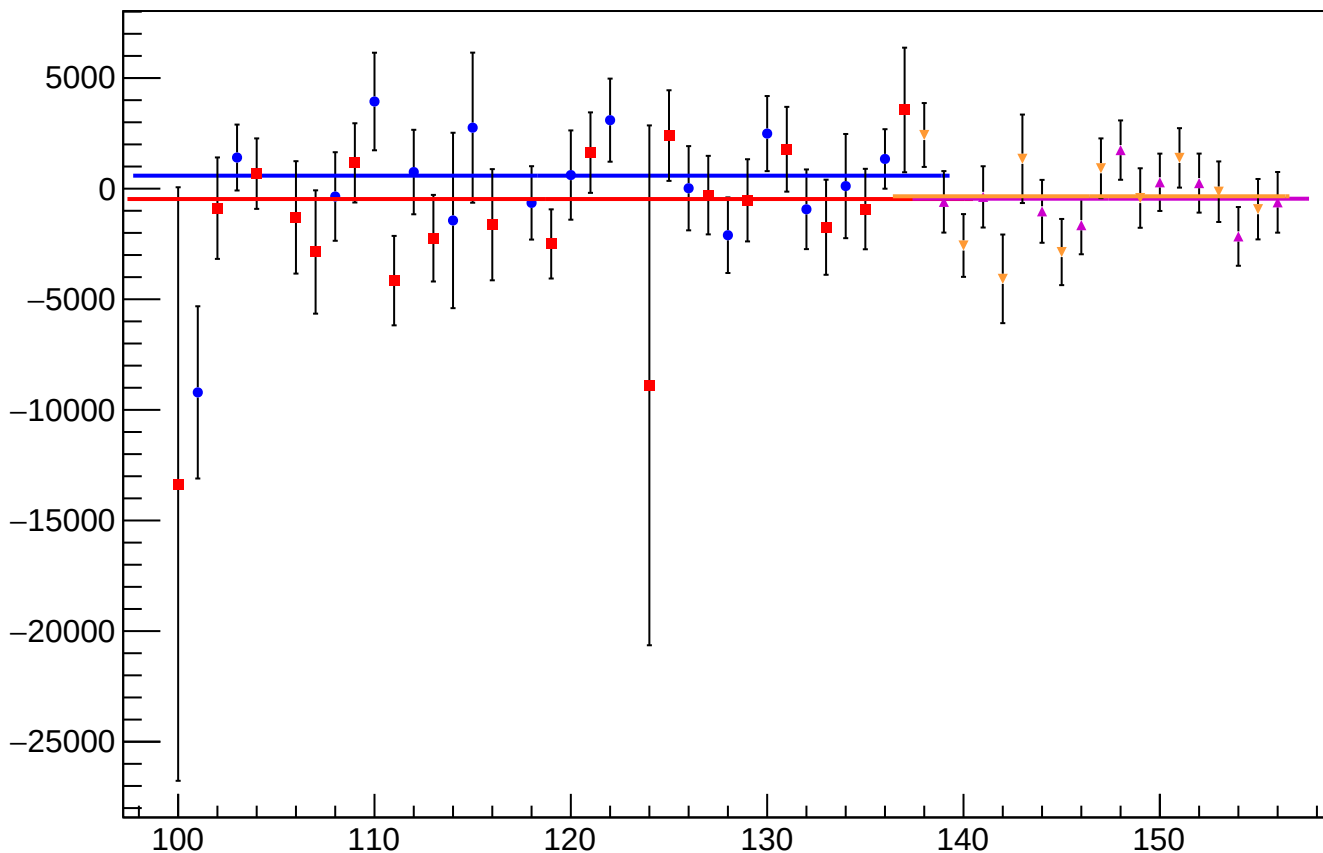
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 5735898.2/24

Out: 0.000+/-0.000 χ^2/NDF : 6936698.5/28

All: 0.000+/-0.000 χ^2/NDF : 12673551.0/53

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 586.935 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -344.515 $\pm$ 463.806 χ^2 /NDF:15.9/9

Right Out: -469.012 $\pm$ 480.516 χ^2 /NDF: 16.9/18

Left In: -454.369 $\pm$ 450.602 χ^2 /NDF:6.0/8

Left: -401.028 $\pm$ 323.191 χ^2 /NDF: 21.9/18

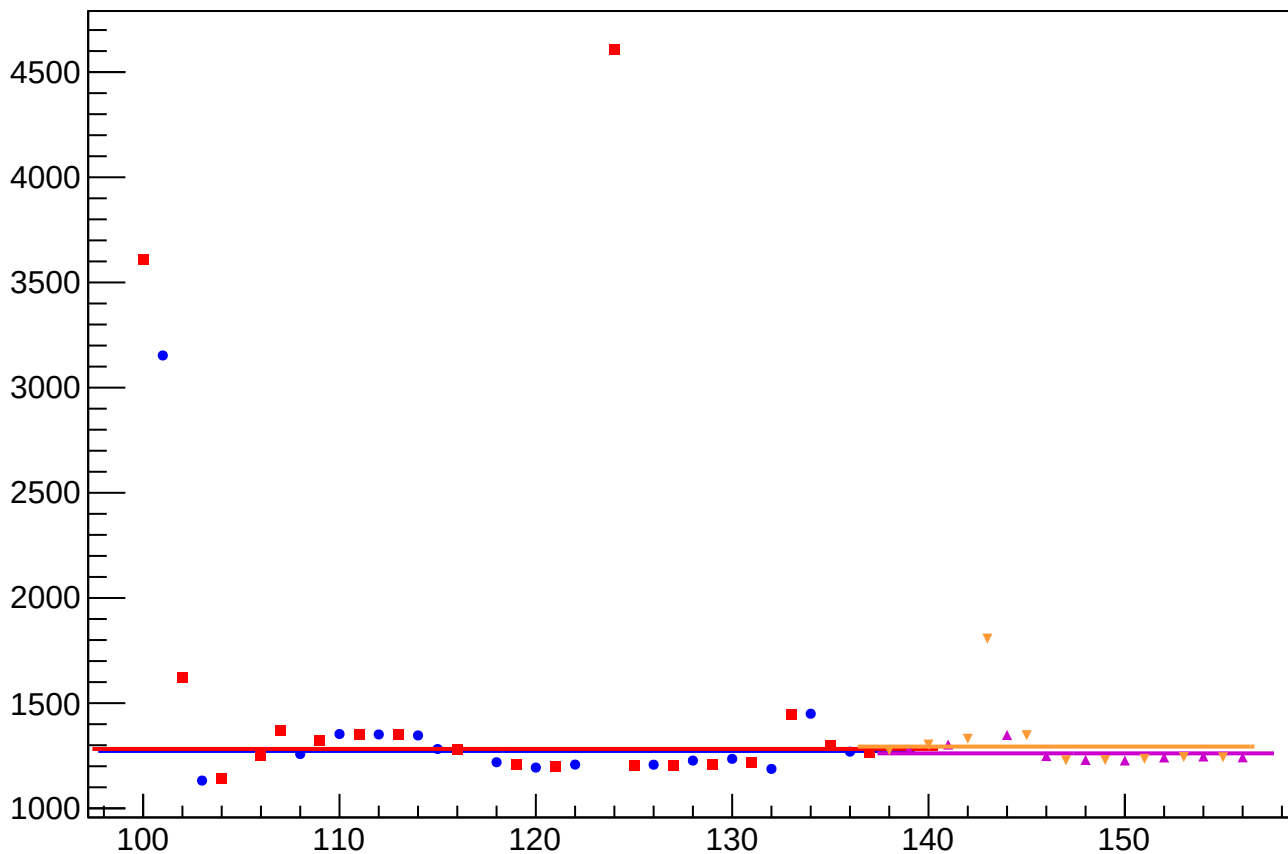
Right: 56.858 $\pm$ 340.452 χ^2 /NDF: 36.3/34

In: 30.799 $\pm$ 329.302 χ^2 /NDF:25.5/24

Out: -404.561 $\pm$ 333.711 χ^2 /NDF:32.8/28

All: -183.986 $\pm$ 234.395 χ^2 /NDF: 59.2/53

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: 1293.541+/-0.328 χ^2/NDF : 153867.4/9

Right Out: 1282.365+/-0.340 χ^2/NDF : 322078.6/18

Left In: 1261.338+/-0.319 χ^2/NDF : 13354.0/8

Left: 1276.974+/-0.229 χ^2/NDF : 172181.3/18

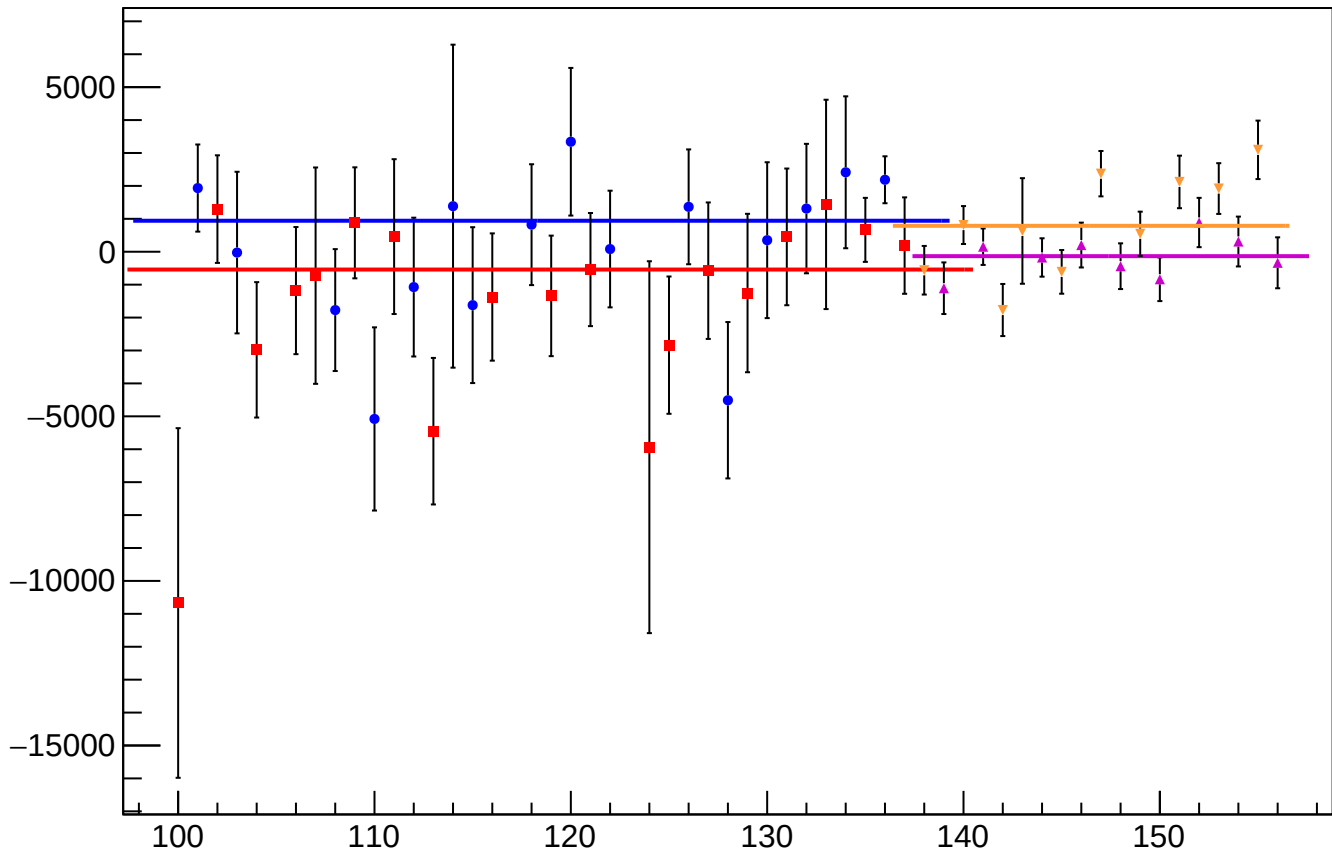
Right: 1277.604+/-0.241 χ^2/NDF : 841771.1/34

In: 1266.680+/-0.233 χ^2/NDF : 533255.6/24

Out: 1288.150+/-0.236 χ^2/NDF : 476506.0/28

All: 1277.273+/-0.166 χ^2/NDF : 1013956.0/53

asym_atl_dd_atr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 χ^2/NDF : 19.9/15

Left Out: 787.477 ± 236.066 χ^2/NDF : 35.4/9

Right Out: -540.622 ± 439.905 χ^2/NDF : 17.2/18

Left In: -134.381 ± 226.310 χ^2/NDF : 5.7/8

Left: 307.107 ± 163.366 χ^2/NDF : 49.0/18

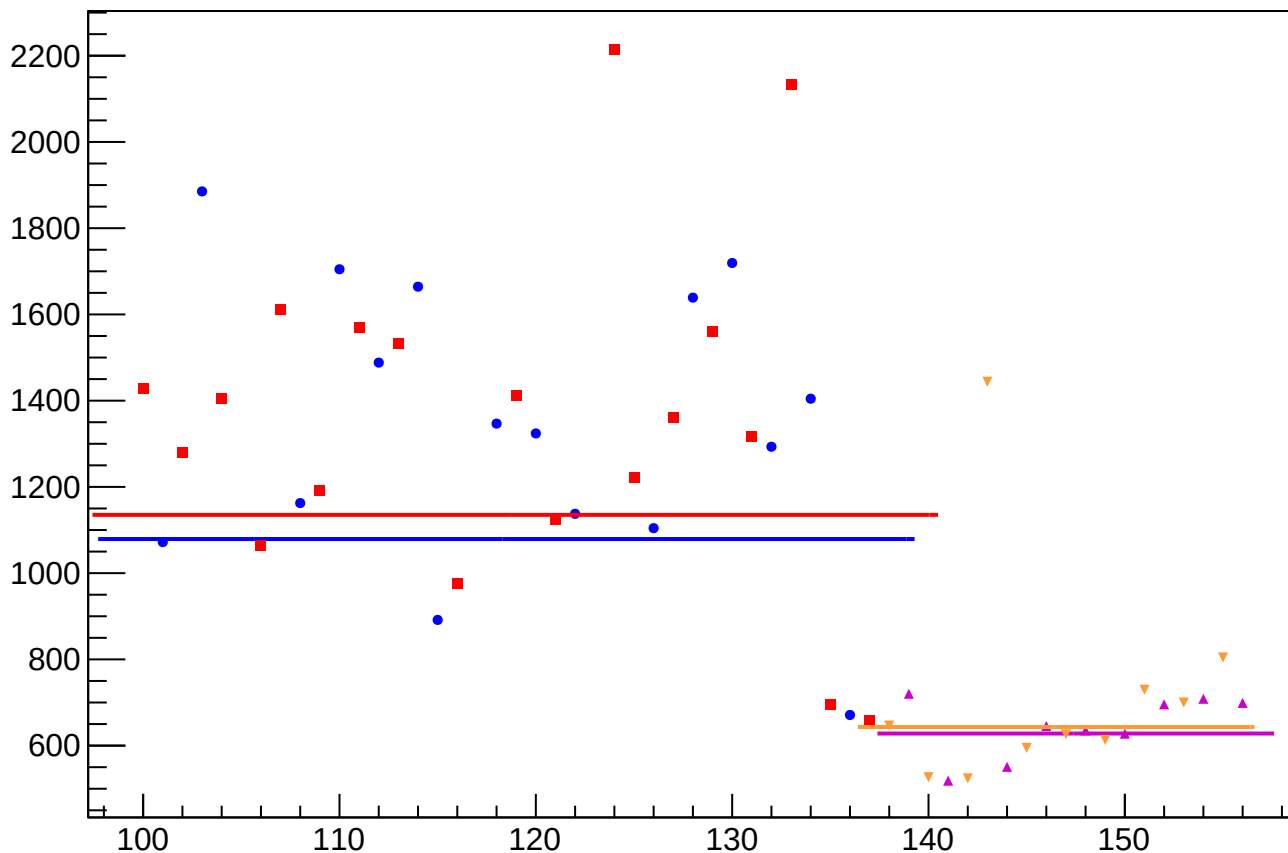
Right: 224.651 ± 305.965 χ^2/NDF : 42.9/34

In: 102.623 ± 199.842 χ^2/NDF : 30.5/24

Out: 490.535 ± 208.008 χ^2/NDF : 59.6/28

All: 288.815 ± 144.110 χ^2/NDF : 91.9/53

asym_atl_dd_atr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120 $\pm$ 0.301 χ^2 /NDF: 1482232.0/15

Left Out: 643.162 $\pm$ 0.167 χ^2 /NDF: 741641.0/9

Right Out: 1135.161 $\pm$ 0.311 χ^2 /NDF: 1293082.2/18

Left In: 628.063 $\pm$ 0.160 χ^2 /NDF: 198002.0/8

Left: 635.294 $\pm$ 0.116 χ^2 /NDF: 943906.2/18

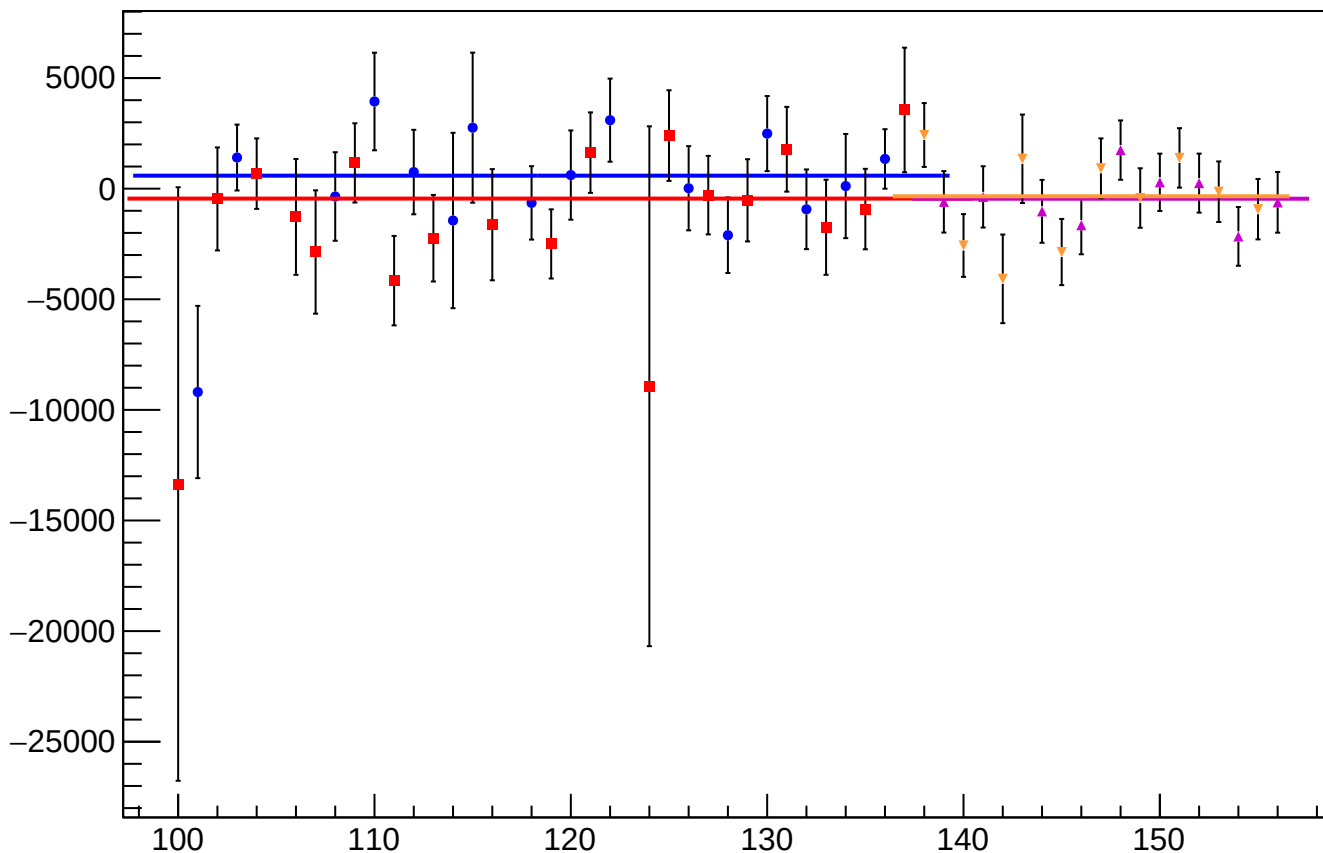
Right: 1106.230 $\pm$ 0.216 χ^2 /NDF: 2792070.7/34

In: 727.402 $\pm$ 0.141 χ^2 /NDF: 3429956.1/24

Out: 753.165 $\pm$ 0.147 χ^2 /NDF: 3977109.0/28

All: 739.768 $\pm$ 0.102 χ^2 /NDF: 7423019.8/53

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: -344.596+/-463.806 χ^2/NDF :15.9/9

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -454.378+/-450.602 χ^2/NDF :6.0/8

Left: -401.072+/-323.191 χ^2/NDF : 21.9/18

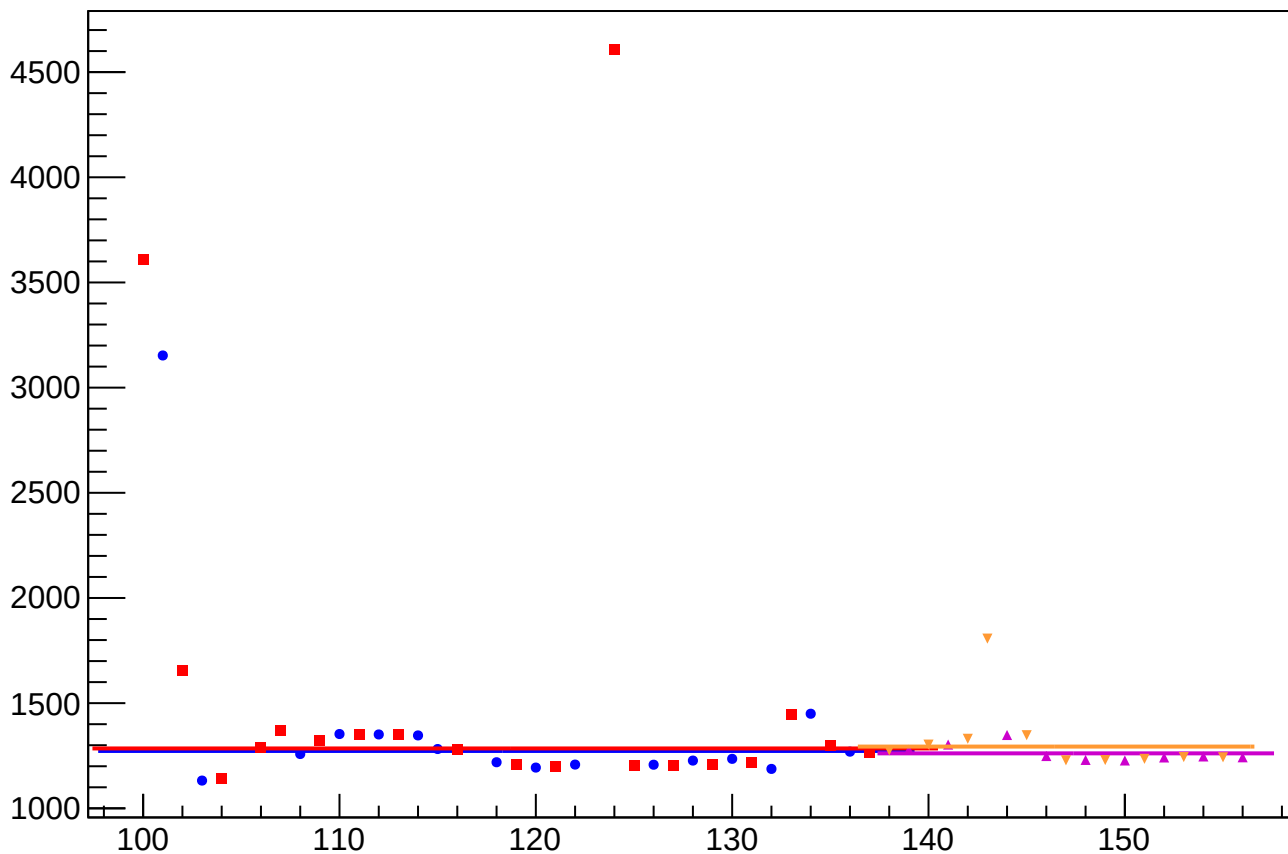
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 30.942+/-329.302 χ^2/NDF :25.5/24

Out: -394.579+/-333.985 χ^2/NDF :32.8/28

All: -178.815+/-234.490 χ^2/NDF : 59.1/53

cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804 $\pm$ 0.341 χ^2 /NDF: 519299.6/15

Left Out: 1293.541 $\pm$ 0.328 χ^2 /NDF: 153867.4/9

Right Out: 1284.654 $\pm$ 0.340 χ^2 /NDF: 328734.9/18

Left In: 1261.338 $\pm$ 0.319 χ^2 /NDF: 13354.0/8

Left: 1276.974 $\pm$ 0.229 χ^2 /NDF: 172181.3/18

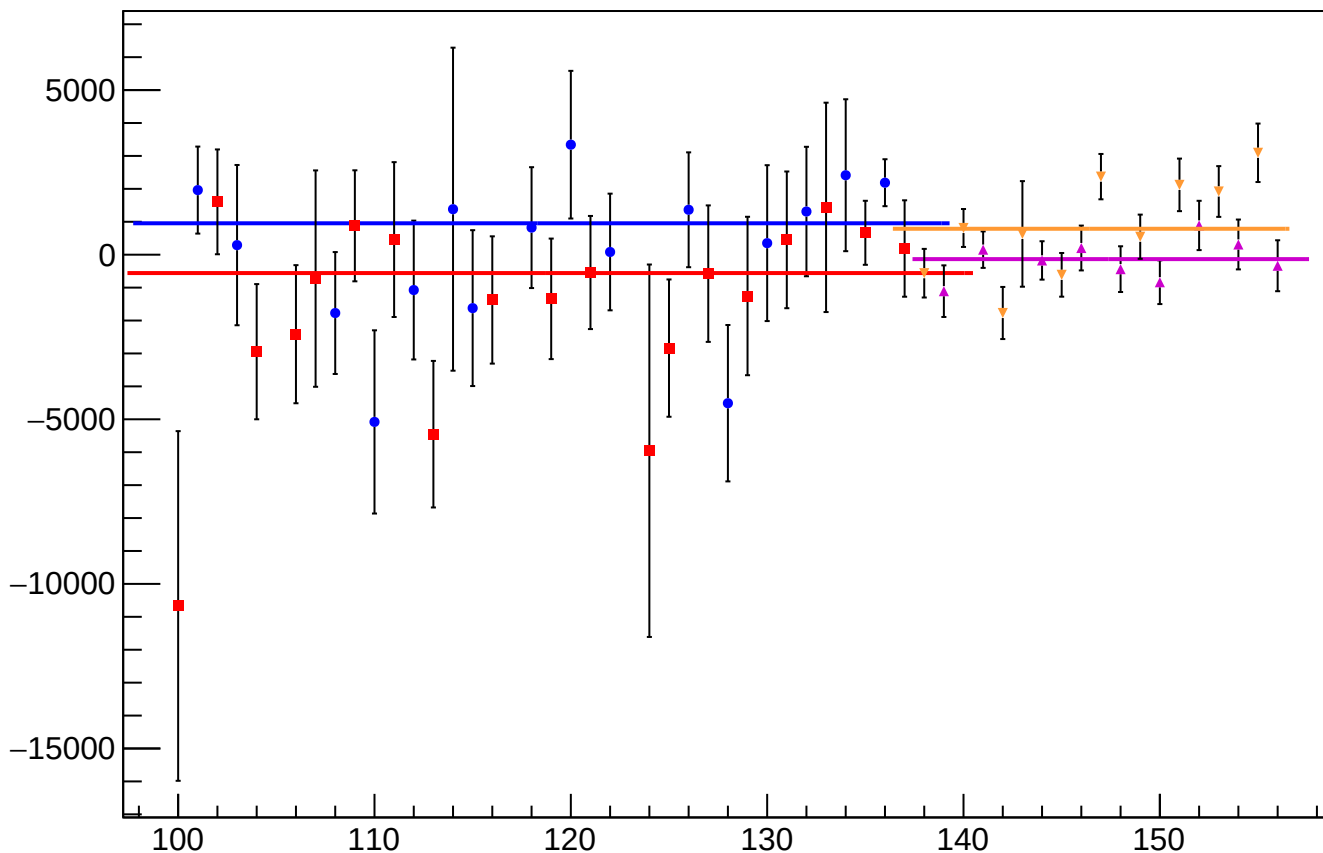
Right: 1278.743 $\pm$ 0.241 χ^2 /NDF: 848639.3/34

In: 1266.680 $\pm$ 0.233 χ^2 /NDF: 533257.0/24

Out: 1289.262 $\pm$ 0.236 χ^2 /NDF: 482955.8/28

All: 1277.812 $\pm$ 0.166 χ^2 /NDF: 1020849.0/53

asym_atl_dd_atr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 787.460 $\pm$ 236.068 χ^2 /NDF:35.4/9

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -134.398 $\pm$ 226.309 χ^2 /NDF:5.7/8

Left: 307.082 $\pm$ 163.366 χ^2 /NDF: 49.0/18

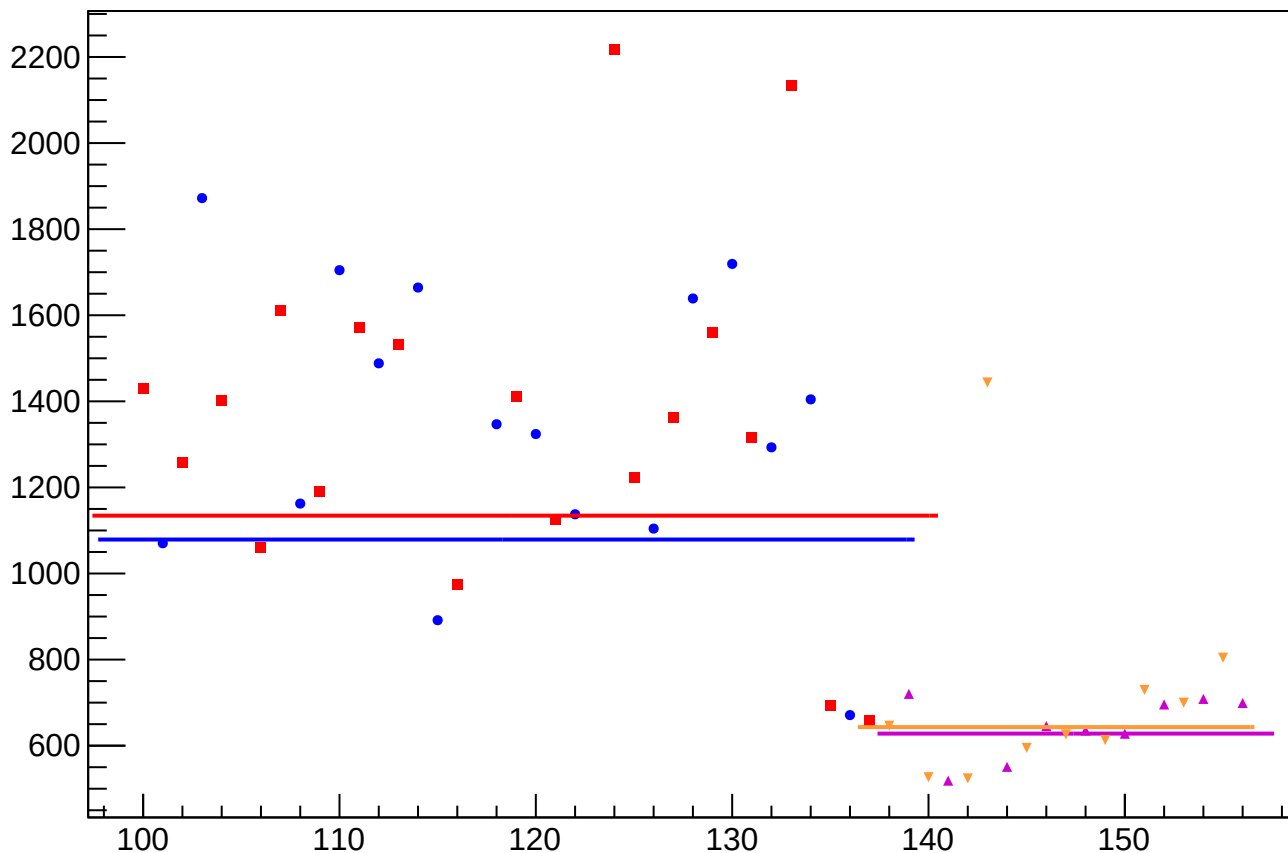
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 105.490 $\pm$ 199.822 χ^2 /NDF:30.6/24

Out: 487.549 $\pm$ 208.100 χ^2 /NDF:61.0/28

All: 288.770 $\pm$ 144.133 χ^2 /NDF: 93.3/53

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: 643.170+/-0.167 χ^2/NDF : 741550.9/9

Right Out: 1134.428+/-0.312 χ^2/NDF : 1288899.2/18

Left In: 628.058+/-0.160 χ^2/NDF : 198027.0/8

Left: 635.295+/-0.116 χ^2/NDF : 943848.8/18

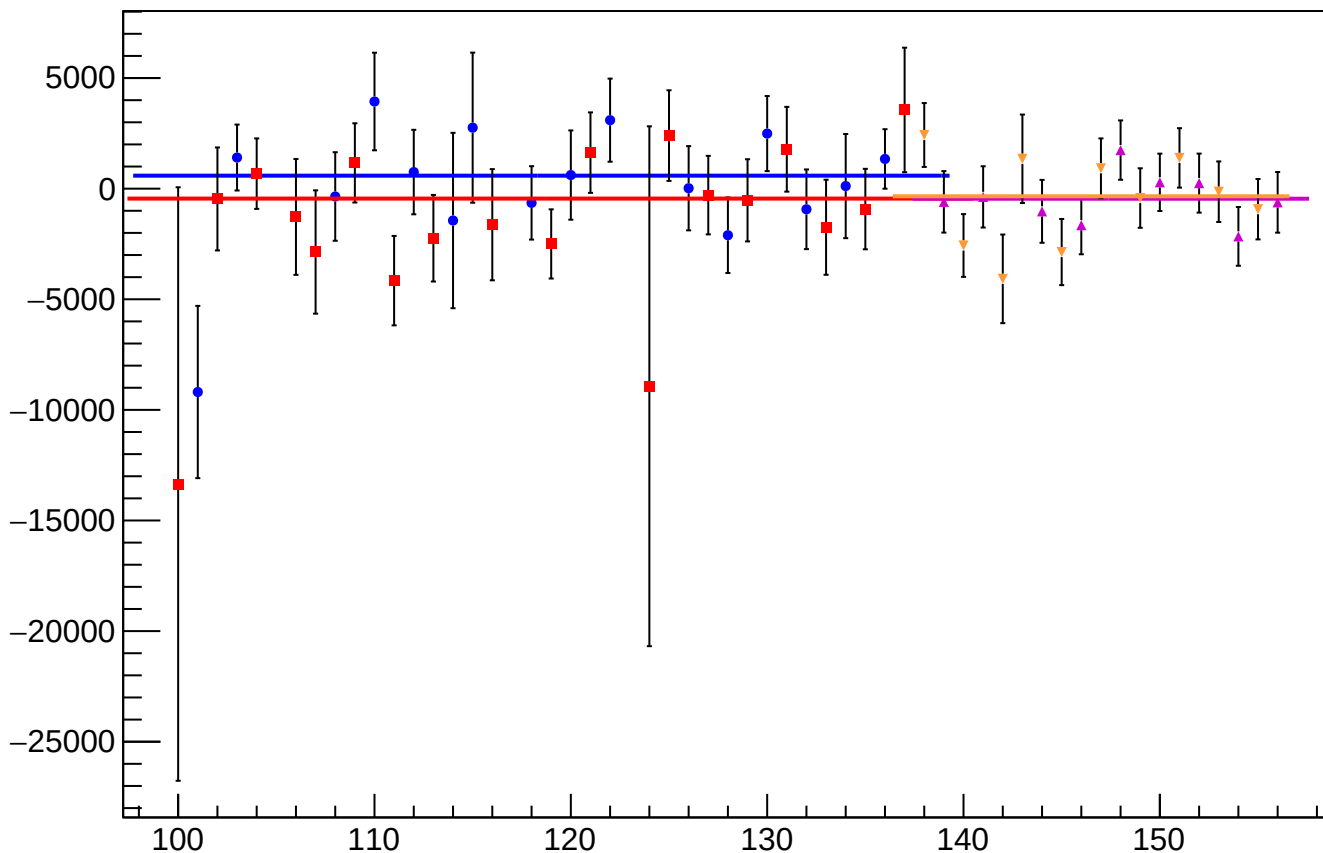
Right: 1105.713+/-0.217 χ^2/NDF : 2784024.9/34

In: 727.419+/-0.141 χ^2/NDF : 3426186.8/24

Out: 752.680+/-0.147 χ^2/NDF : 3961155.3/28

All: 739.537+/-0.102 χ^2/NDF : 7402674.3/53

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: -344.596+/-463.806 χ^2/NDF :15.9/9

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -454.378+/-450.602 χ^2/NDF :6.0/8

Left: -401.072+/-323.191 χ^2/NDF : 21.9/18

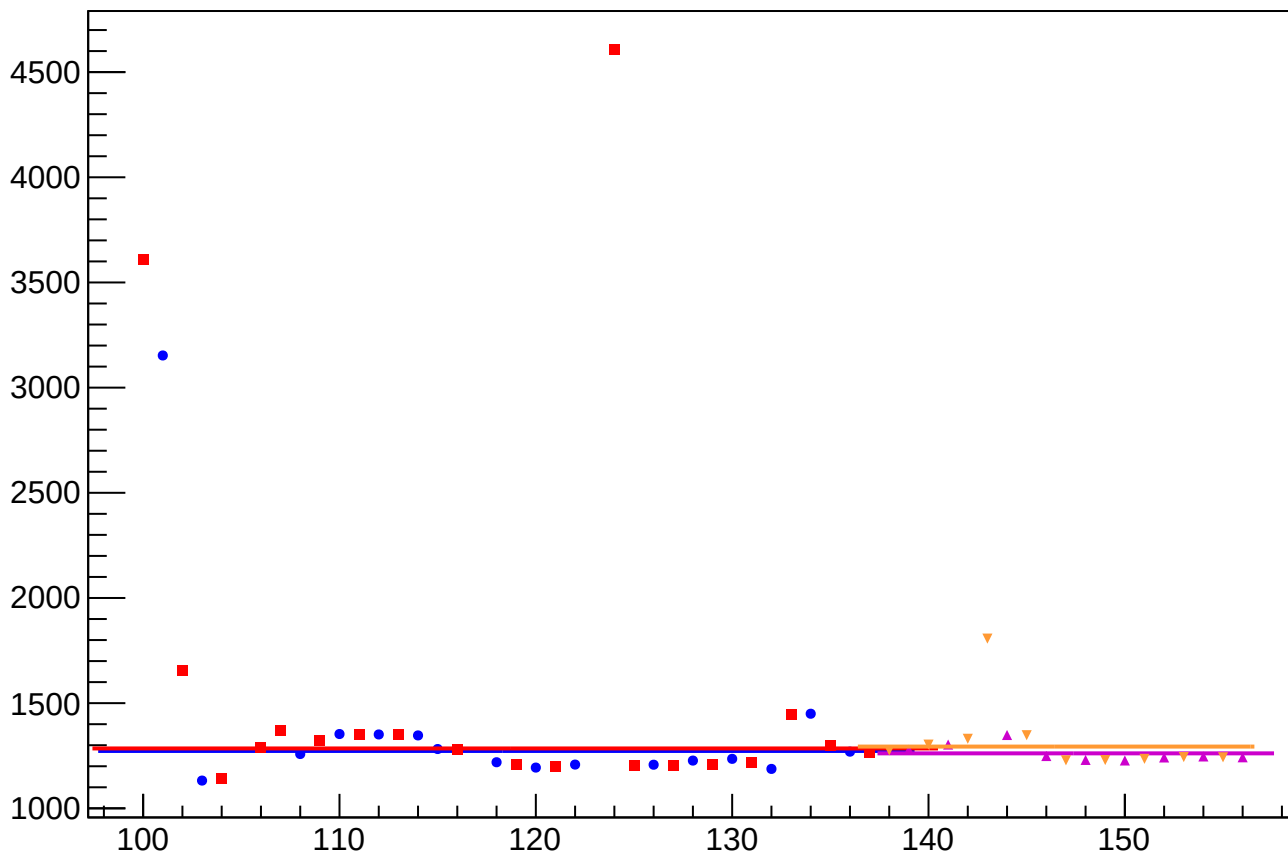
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 30.942+/-329.302 χ^2/NDF :25.5/24

Out: -394.579+/-333.985 χ^2/NDF :32.8/28

All: -178.815+/-234.490 χ^2/NDF : 59.1/53

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: 1293.541+/-0.328 χ^2/NDF : 153867.4/9

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1261.338+/-0.319 χ^2/NDF : 13354.0/8

Left: 1276.974+/-0.229 χ^2/NDF : 172181.3/18

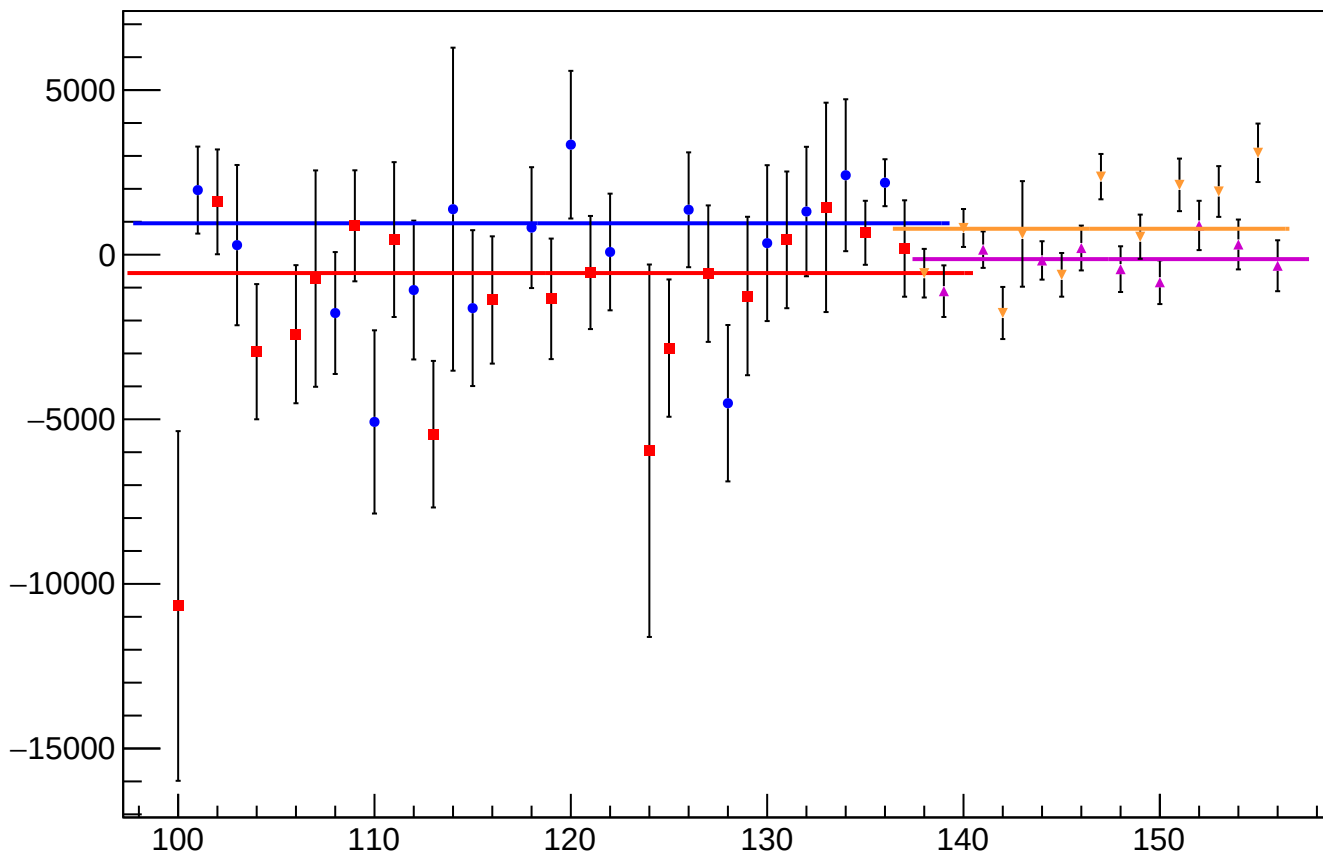
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1266.680+/-0.233 χ^2/NDF : 533257.0/24

Out: 1289.262+/-0.236 χ^2/NDF : 482955.8/28

All: 1277.812+/-0.166 χ^2/NDF : 1020849.0/53

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 787.460 $\pm$ 236.068 χ^2 /NDF:35.4/9

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -134.398 $\pm$ 226.309 χ^2 /NDF:5.7/8

Left: 307.082 $\pm$ 163.366 χ^2 /NDF: 49.0/18

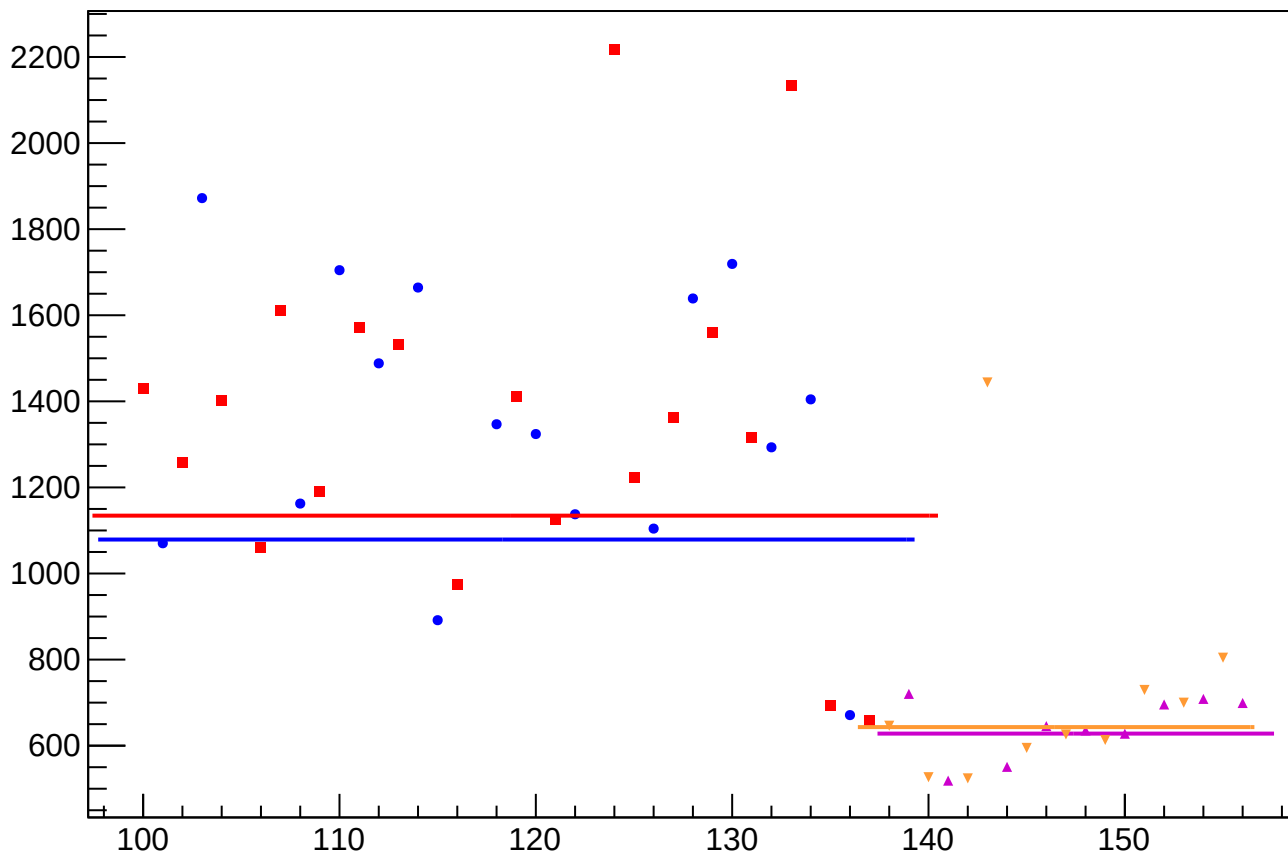
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 105.490 $\pm$ 199.822 χ^2 /NDF:30.6/24

Out: 487.549 $\pm$ 208.100 χ^2 /NDF:61.0/28

All: 288.770 $\pm$ 144.133 χ^2 /NDF: 93.3/53

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932 $\pm$ 0.301 χ^2 /NDF: 1478719.9/15

Left Out: 643.170 $\pm$ 0.167 χ^2 /NDF: 741550.9/9

Right Out: 1134.428 $\pm$ 0.312 χ^2 /NDF: 1288899.2/18

Left In: 628.058 $\pm$ 0.160 χ^2 /NDF: 198027.0/8

Left: 635.295 $\pm$ 0.116 χ^2 /NDF: 943848.8/18

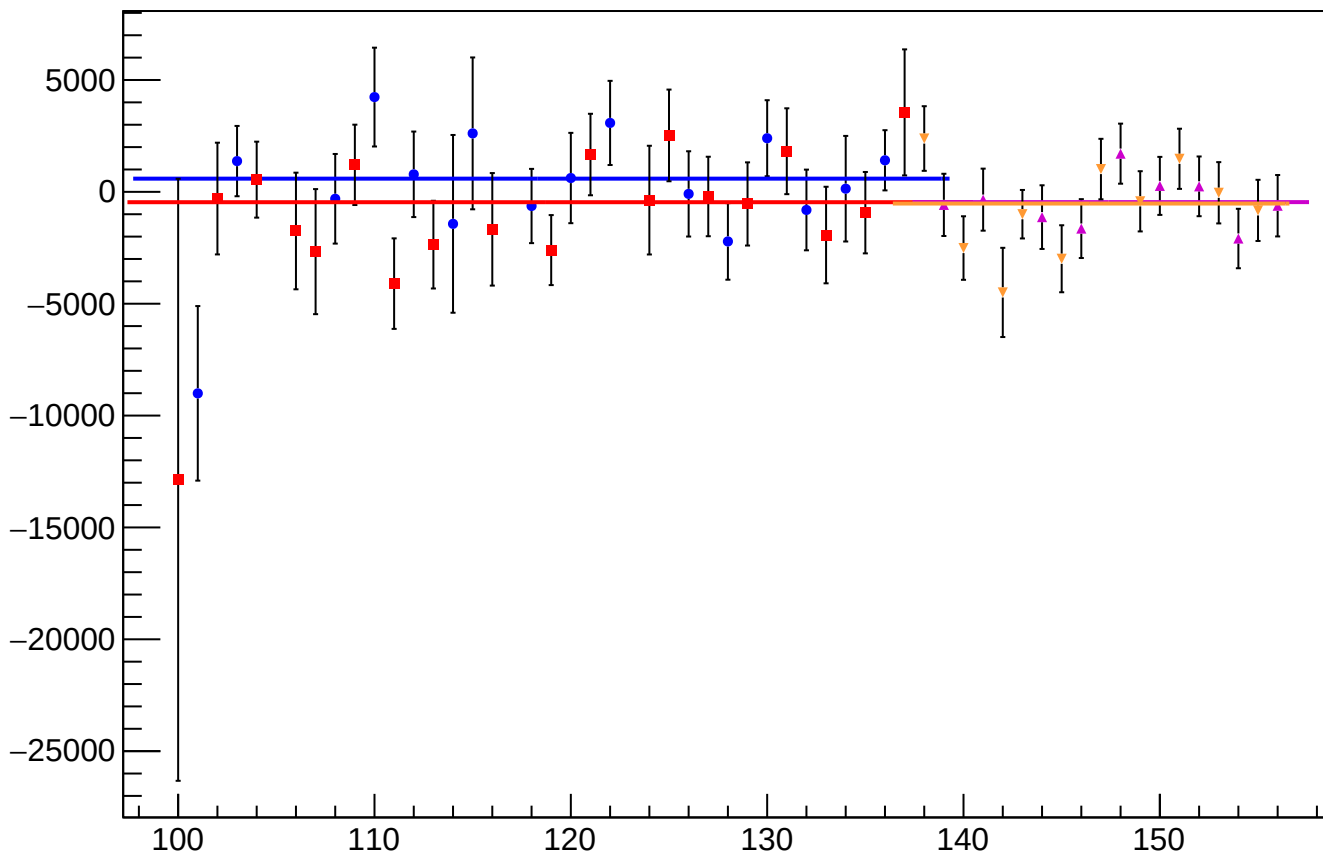
Right: 1105.713 $\pm$ 0.217 χ^2 /NDF: 2784024.9/34

In: 727.419 $\pm$ 0.141 χ^2 /NDF: 3426186.8/24

Out: 752.680 $\pm$ 0.147 χ^2 /NDF: 3961155.3/28

All: 739.537 $\pm$ 0.102 χ^2 /NDF: 7402674.3/53

dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 590.322+/-485.483 χ^2/NDF : 17.1/15

Left Out: -522.476+/-436.627 χ^2/NDF : 16.6/9

Right Out: -462.606+/-476.795 χ^2/NDF : 16.7/18

Left In: -458.421+/-450.966 χ^2/NDF : 5.8/8

Left: -491.483+/-313.689 χ^2/NDF : 22.4/18

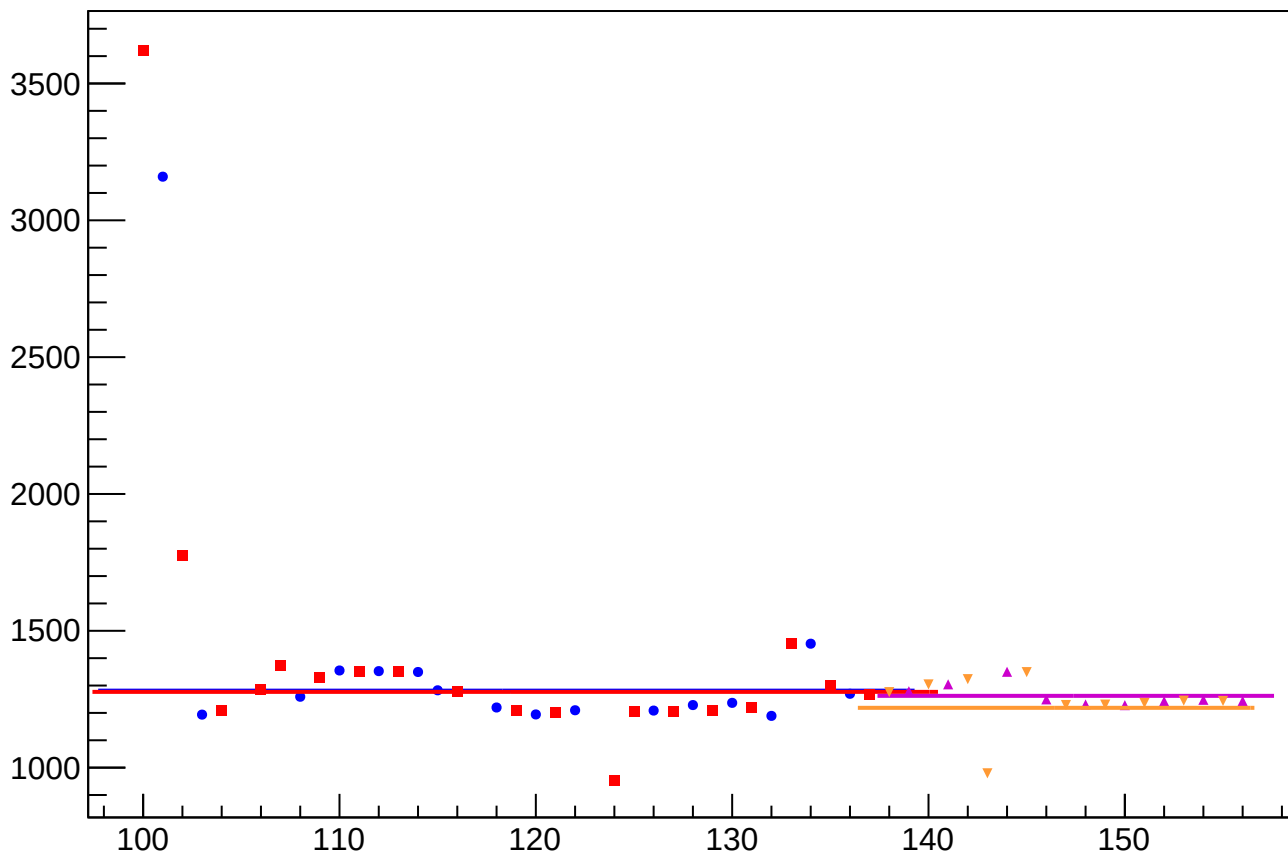
Right: 54.353+/-340.175 χ^2/NDF : 36.2/34

In: 27.347+/-330.410 χ^2/NDF : 25.4/24

Out: -495.169+/-322.008 χ^2/NDF : 33.3/28

All: -240.639+/-230.607 χ^2/NDF : 59.9/53

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: 1218.582+/-0.309 χ^2/NDF :130614.6/9

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1262.351+/-0.319 χ^2/NDF :13477.6/8

Left: 1239.760+/-0.222 χ^2/NDF : 153816.6/18

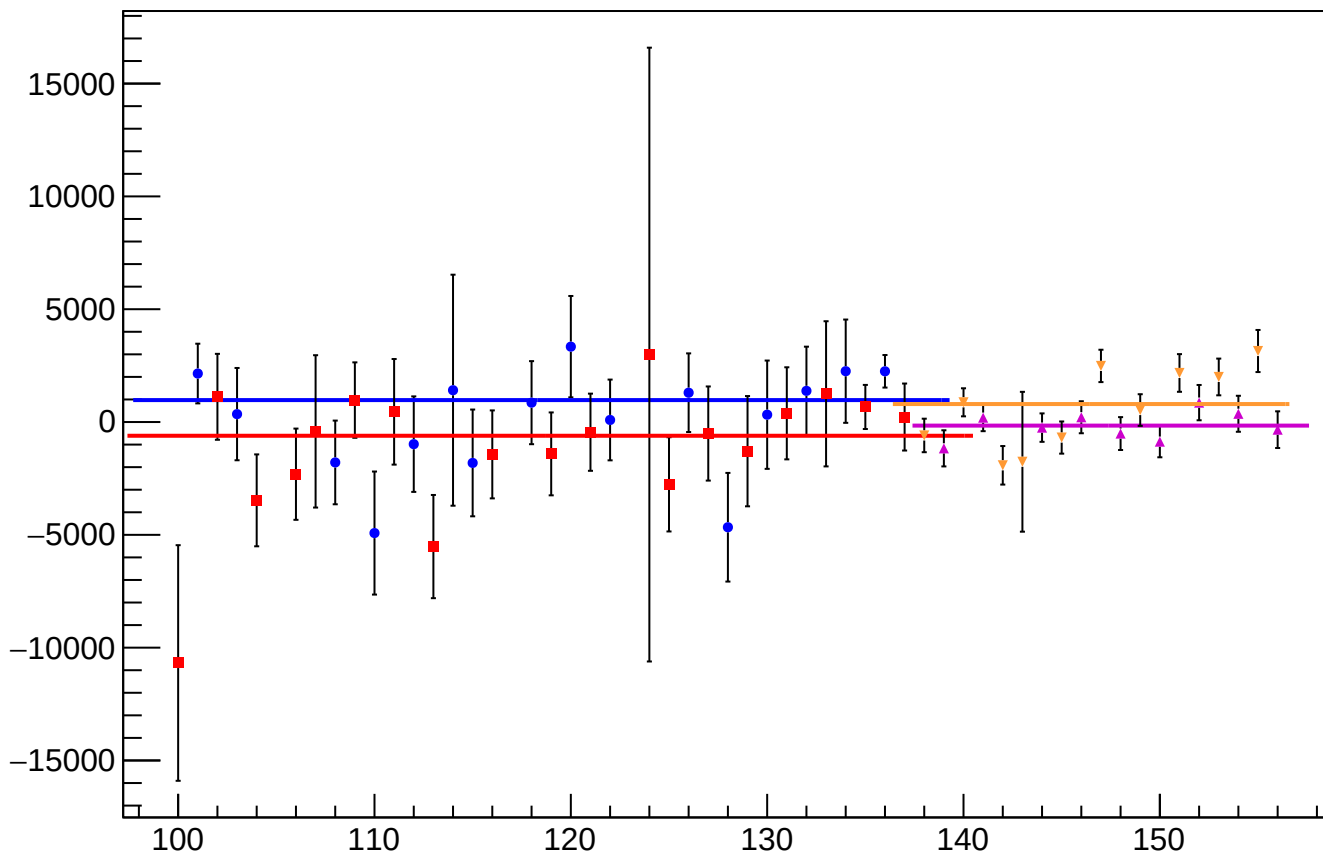
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1271.160+/-0.234 χ^2/NDF :522203.4/24

Out: 1245.163+/-0.228 χ^2/NDF :367379.8/28

All: 1257.827+/-0.163 χ^2/NDF : 895933.3/53

asym_atl_dd_atr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 ± 425.219 $\chi^2/\text{NDF}: 20.4/15$

Left Out: 796.847 ± 250.643 $\chi^2/\text{NDF}: 35.6/9$

Right Out: -608.431 ± 447.734 $\chi^2/\text{NDF}: 17.1/18$

Left In: -158.613 ± 238.783 $\chi^2/\text{NDF}: 5.7/8$

Left: 295.978 ± 172.886 $\chi^2/\text{NDF}: 48.9/18$

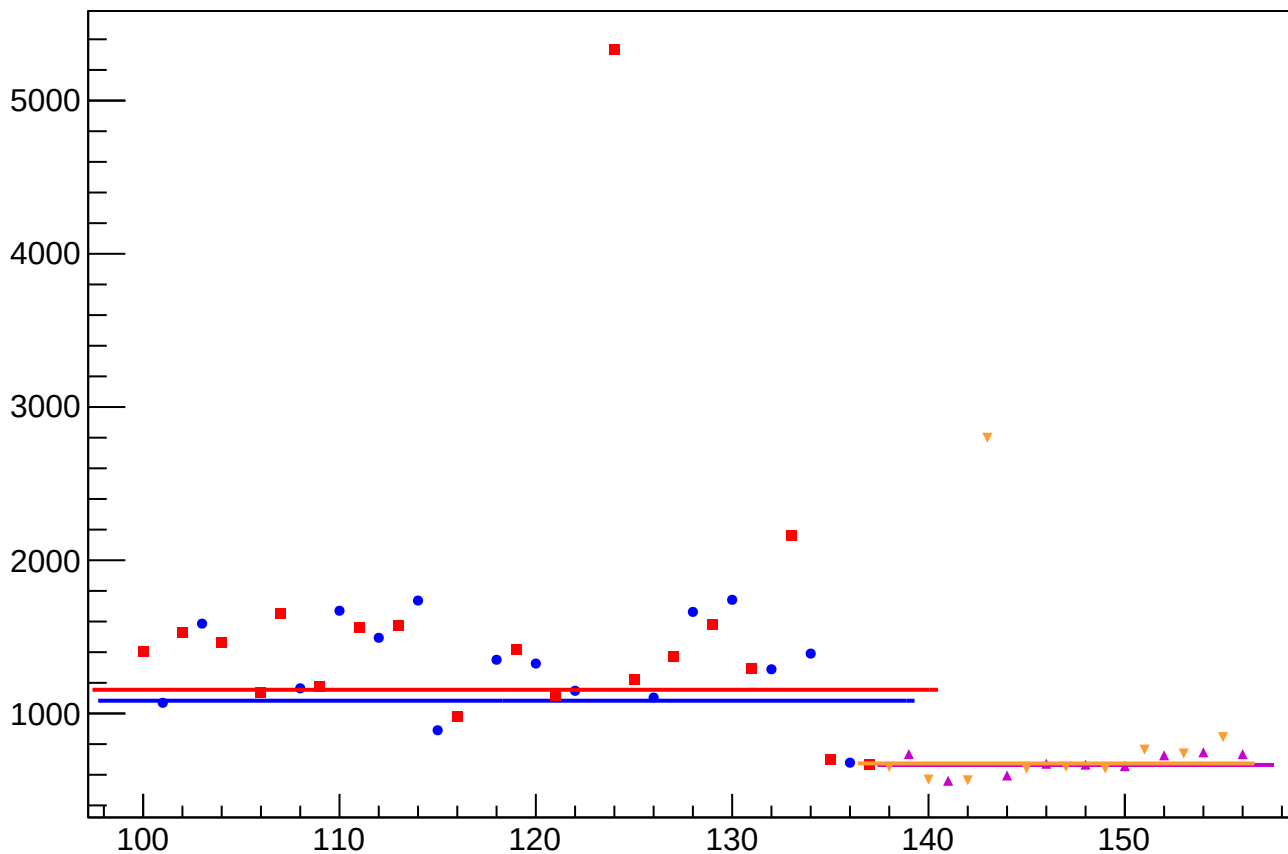
Right: 222.671 ± 308.328 $\chi^2/\text{NDF}: 44.1/34$

In: 112.512 ± 208.202 $\chi^2/\text{NDF}: 31.5/24$

Out: 461.539 ± 218.706 $\chi^2/\text{NDF}: 60.2/28$

All: 278.443 ± 150.798 $\chi^2/\text{NDF}: 93.1/53$

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: 673.938+/-0.177 χ^2/NDF : 1148174.3/9

Right Out: 1154.724+/-0.317 χ^2/NDF : 1488304.5/18

Left In: 663.921+/-0.169 χ^2/NDF : 148879.9/8

Left: 668.687+/-0.122 χ^2/NDF : 1298728.7/18

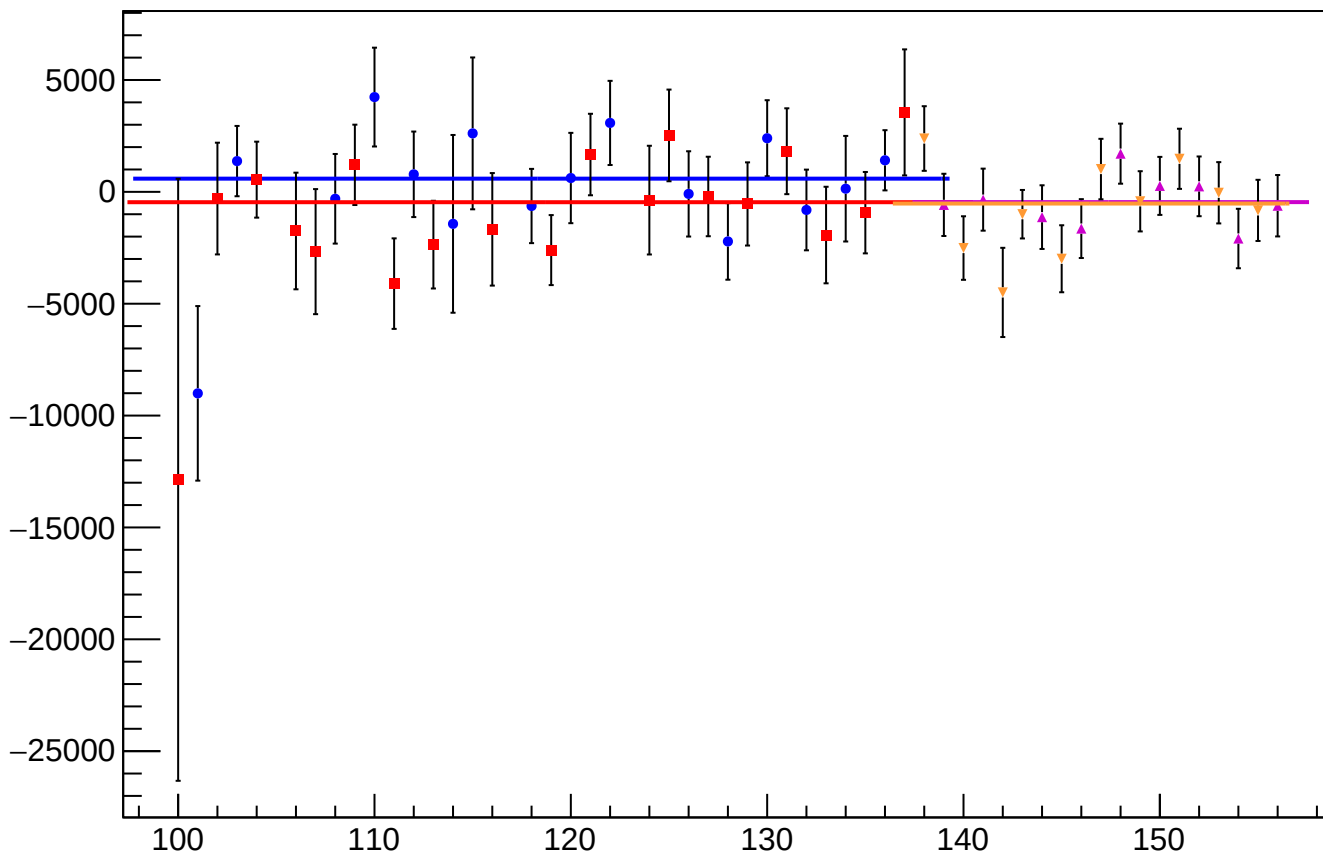
Right: 1117.189+/-0.218 χ^2/NDF : 2875191.7/34

In: 764.472+/-0.147 χ^2/NDF : 2988315.2/24

Out: 788.656+/-0.155 χ^2/NDF : 4392395.0/28

All: 775.970+/-0.107 χ^2/NDF : 7393539.1/53

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: -522.478+/-436.627 χ^2/NDF : 16.6/9

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -458.424+/-450.966 χ^2/NDF : 5.8/8

Left: -491.485+/-313.689 χ^2/NDF : 22.4/18

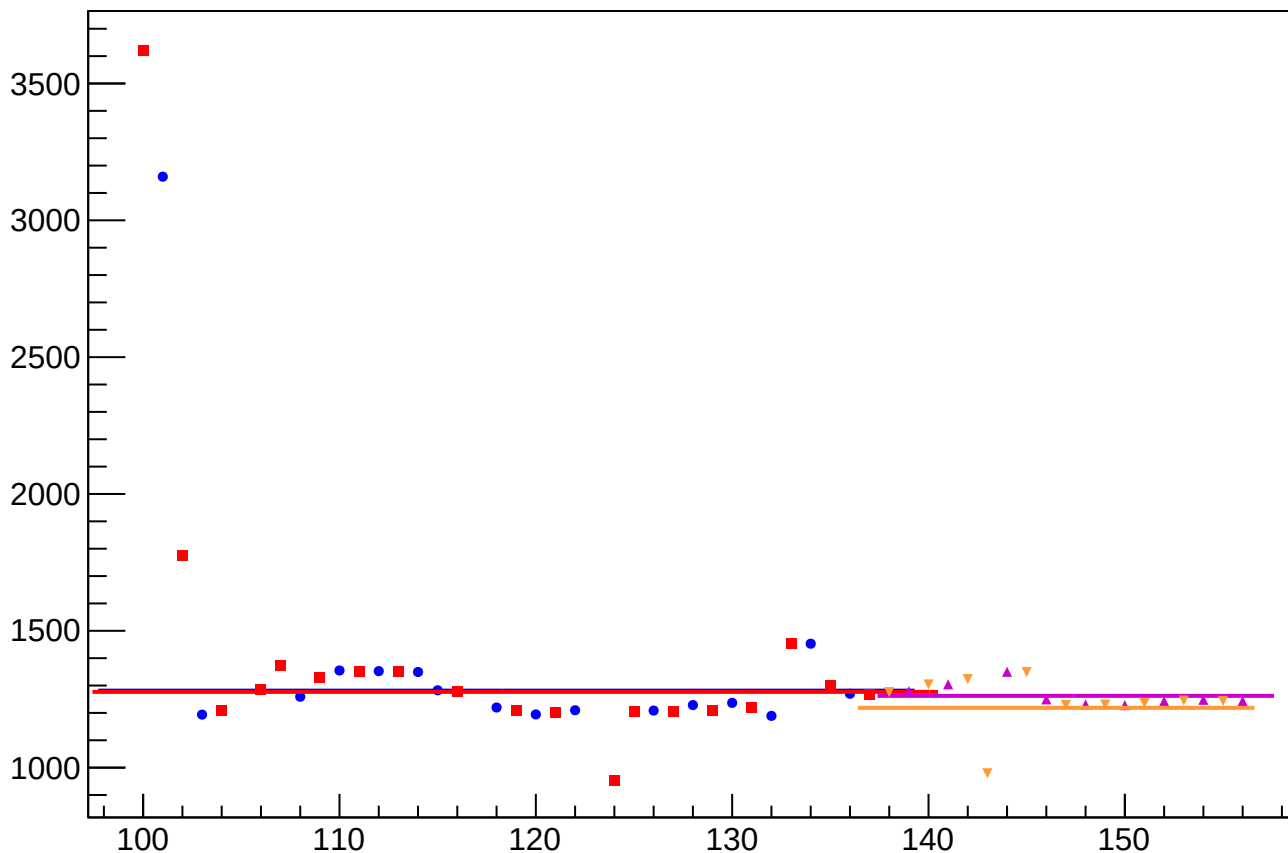
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 27.347+/-330.410 χ^2/NDF : 25.4/24

Out: -495.169+/-322.008 χ^2/NDF : 33.3/28

All: -240.640+/-230.607 χ^2/NDF : 59.9/53

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: 1218.582+/-0.309 χ^2/NDF :130613.9/9

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.5/18

Left In: 1262.351+/-0.319 χ^2/NDF :13477.6/8

Left: 1239.760+/-0.222 χ^2/NDF : 153815.9/18

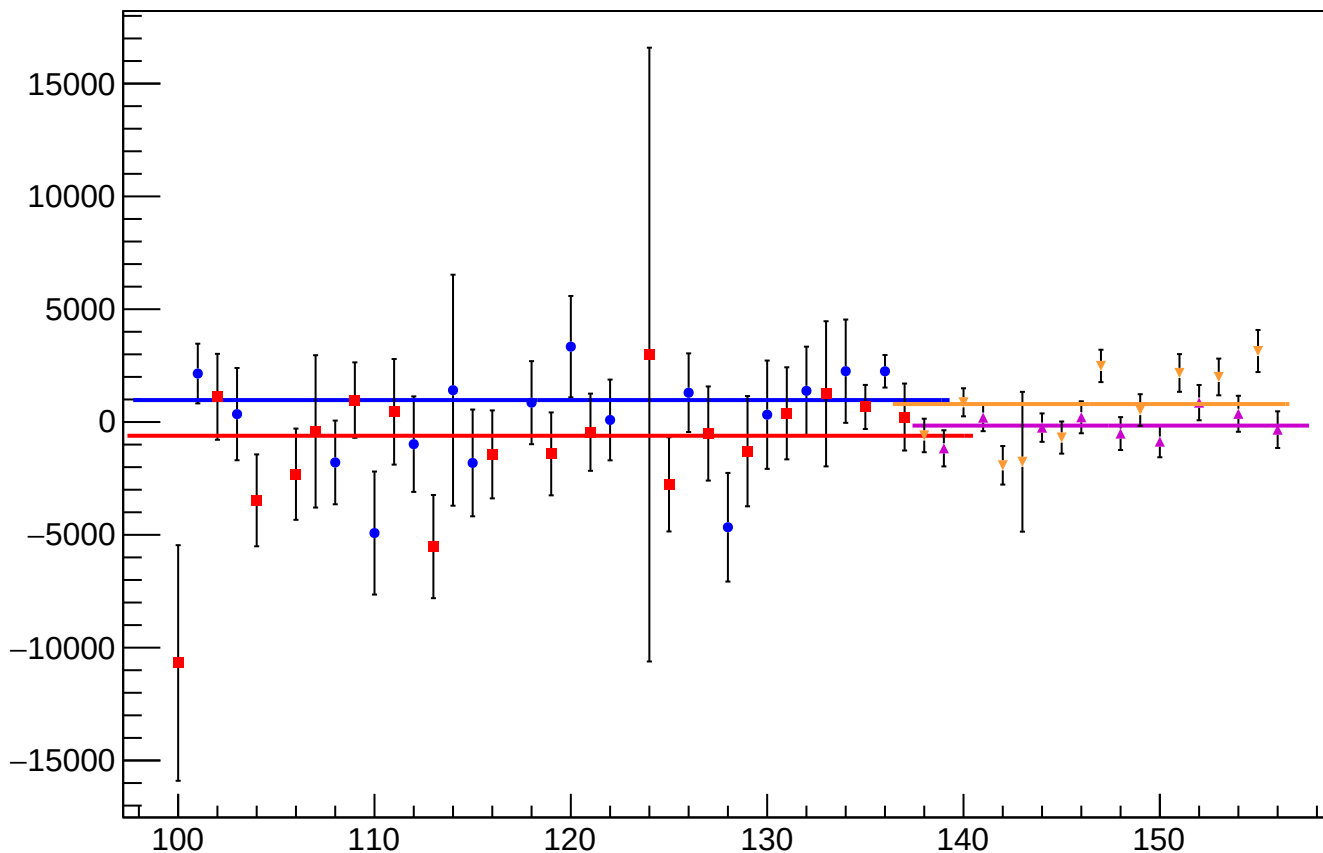
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1271.160+/-0.234 χ^2/NDF :522203.6/24

Out: 1245.163+/-0.228 χ^2/NDF :367378.8/28

All: 1257.827+/-0.163 χ^2/NDF : 895932.5/53

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.281 ± 425.220 $\chi^2/\text{NDF}: 20.4/15$

Left Out: 796.852 ± 250.644 $\chi^2/\text{NDF}: 35.6/9$

Right Out: -608.441 ± 447.736 $\chi^2/\text{NDF}: 17.1/18$

Left In: -158.613 ± 238.783 $\chi^2/\text{NDF}: 5.7/8$

Left: 295.979 ± 172.886 $\chi^2/\text{NDF}: 48.9/18$

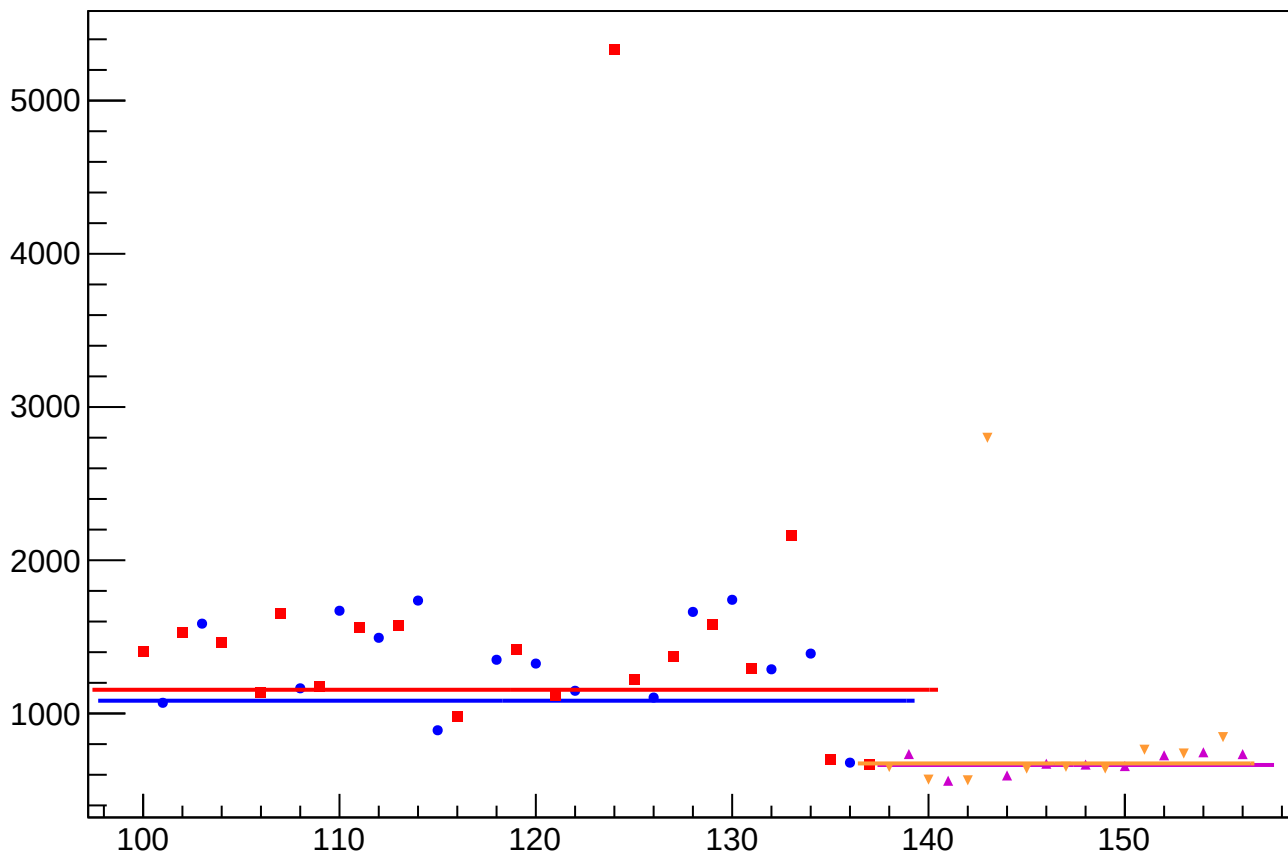
Right: 222.664 ± 308.329 $\chi^2/\text{NDF}: 44.1/34$

In: 112.508 ± 208.202 $\chi^2/\text{NDF}: 31.5/24$

Out: 461.542 ± 218.707 $\chi^2/\text{NDF}: 60.2/28$

All: 278.442 ± 150.798 $\chi^2/\text{NDF}: 93.1/53$

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: 673.939+/-0.177 χ^2/NDF : 1148166.9/9

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 663.921+/-0.169 χ^2/NDF : 148881.9/8

Left: 668.687+/-0.122 χ^2/NDF : 1298724.0/18

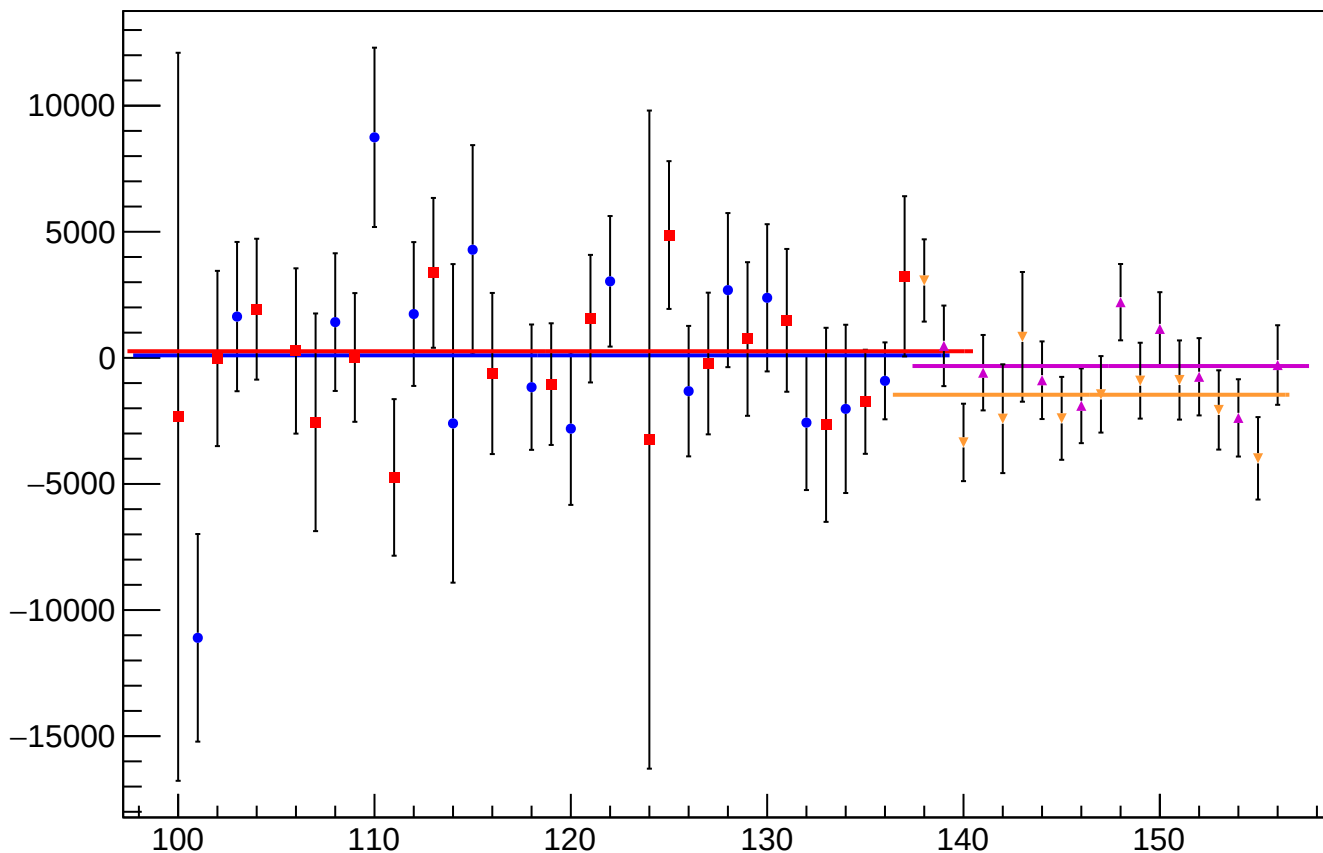
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 764.473+/-0.147 χ^2/NDF : 2988300.4/24

Out: 788.659+/-0.155 χ^2/NDF : 4392363.7/28

All: 775.971+/-0.107 χ^2/NDF : 7393495.1/53

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 100.451 $\pm$ 698.983 χ^2 /NDF: 21.3/15

Left Out: -1462.379 $\pm$ 527.266 χ^2 /NDF:13.3/9

Right Out: 262.731 $\pm$ 699.724 χ^2 /NDF: 10.3/18

Left In: -323.941 $\pm$ 507.833 χ^2 /NDF:7.2/8

Left: -871.795 $\pm$ 365.769 χ^2 /NDF: 23.0/18

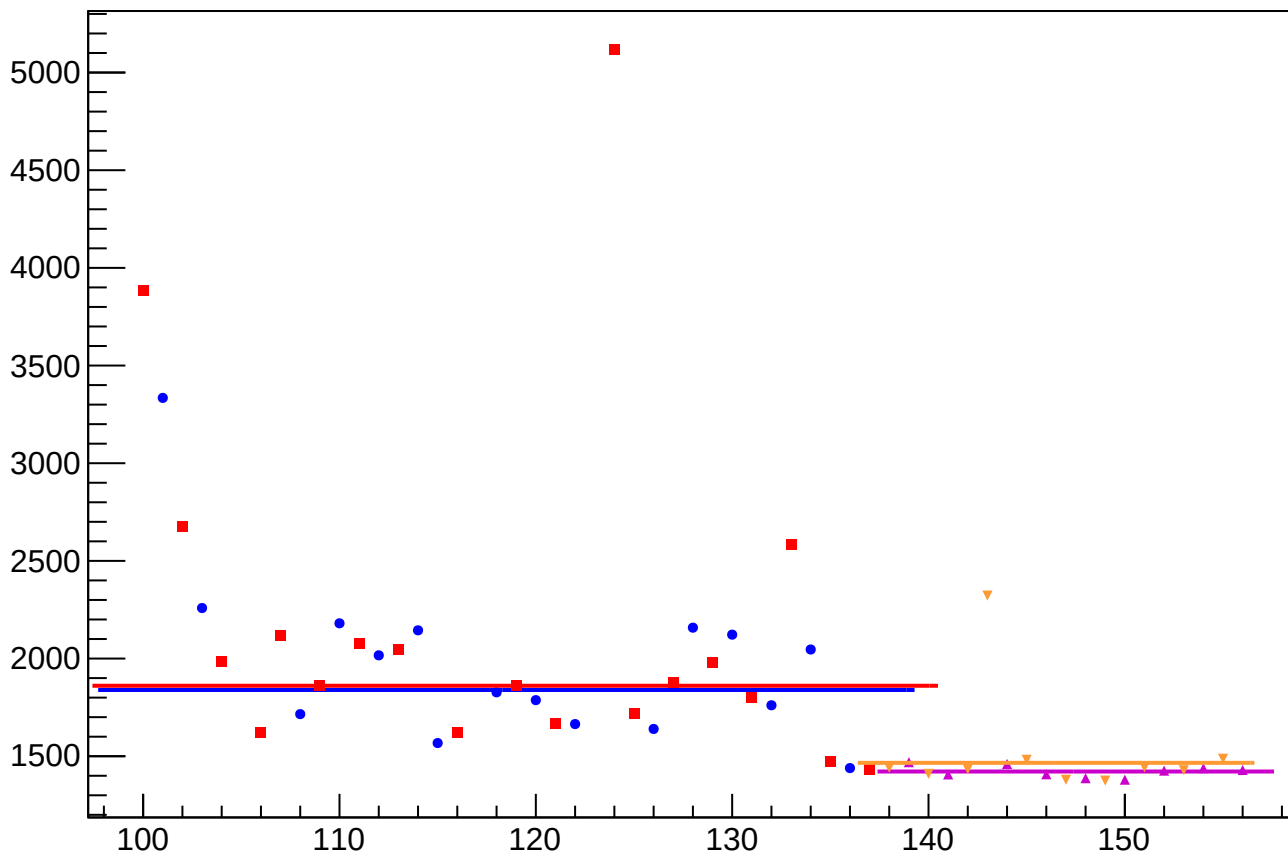
Right: 181.505 $\pm$ 494.518 χ^2 /NDF: 31.6/34

In: -177.320 $\pm$ 410.848 χ^2 /NDF:28.8/24

Out: -837.598 $\pm$ 421.097 χ^2 /NDF:27.6/28

All: -499.326 $\pm$ 294.070 χ^2 /NDF: 57.6/53

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: 1466.140+/-0.373 χ^2/NDF : 241238.4/9

Right Out: 1860.754+/-0.495 χ^2/NDF : 522114.2/18

Left In: 1421.699+/-0.359 χ^2/NDF : 6397.6/8

Left: 1443.086+/-0.259 χ^2/NDF : 255006.7/18

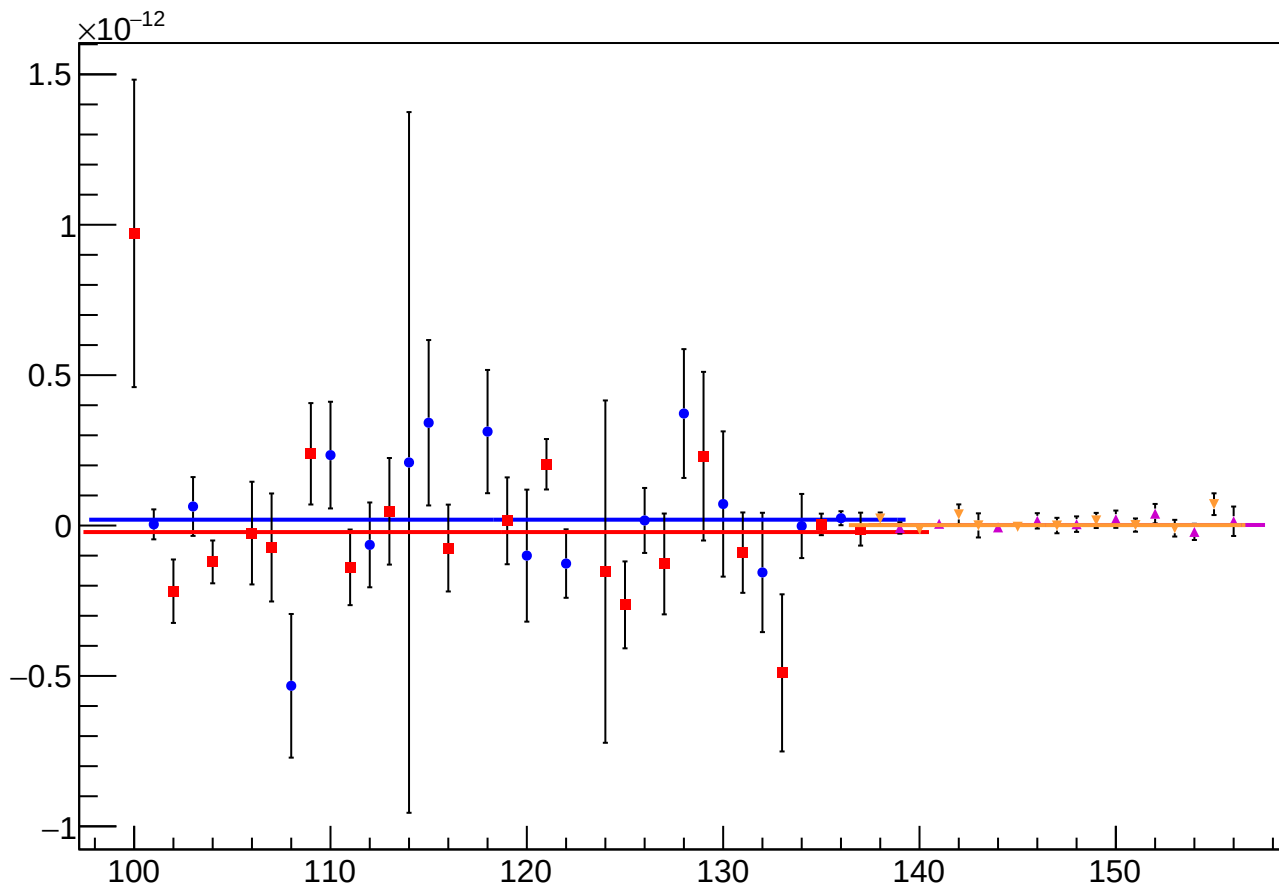
Right: 1849.922+/-0.350 χ^2/NDF : 1079797.1/34

In: 1565.910+/-0.291 χ^2/NDF : 1029945.2/24

Out: 1609.059+/-0.298 χ^2/NDF : 1169078.1/28

All: 1586.953+/-0.208 χ^2/NDF : 2209781.9/53

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 : 8.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 3.6/8

Left: 0.000+/-0.000 χ^2/NDF : 12.0/18

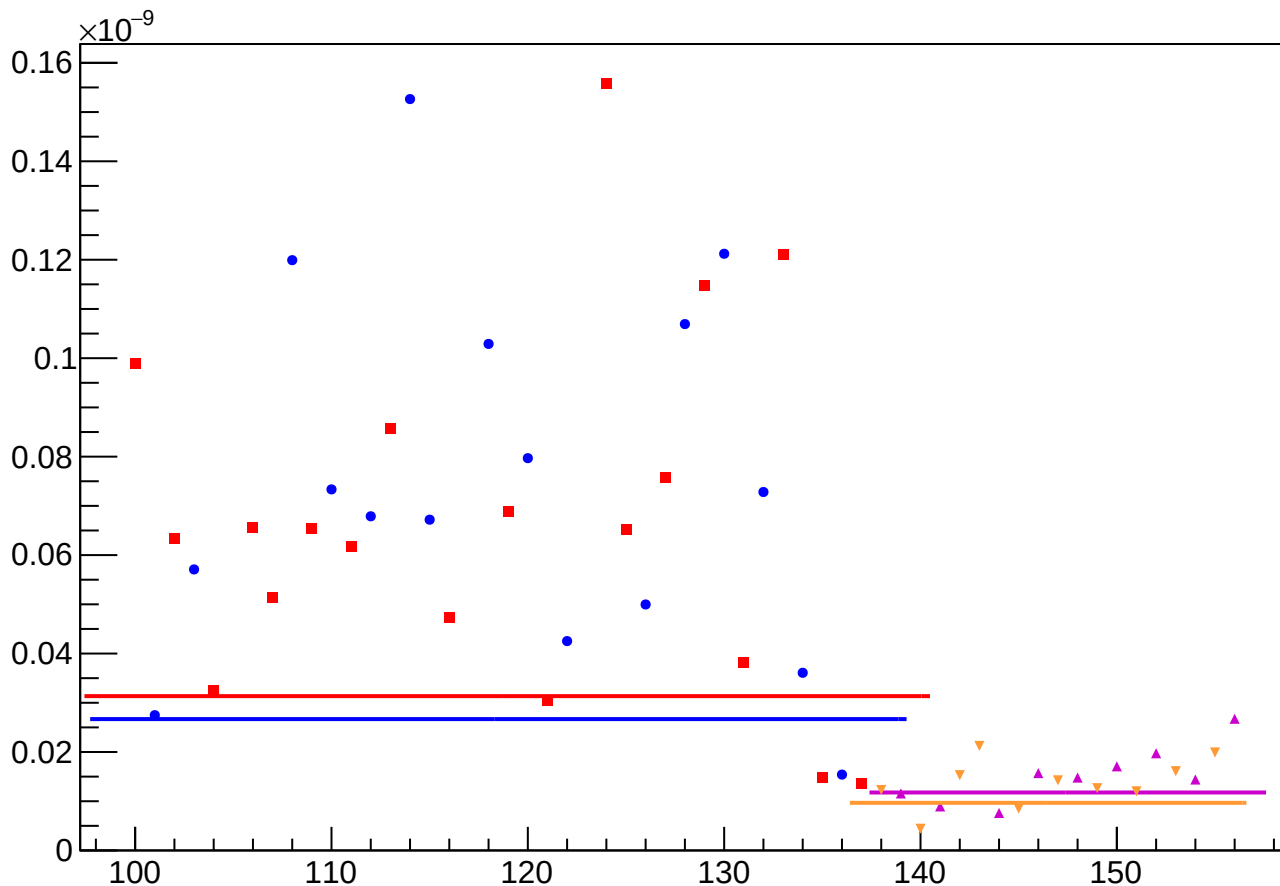
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 20.8/24

Out: -0.000+/-0.000 χ^2/NDF : 37.6/28

All: 0.000+/-0.000 χ^2/NDF : 58.7/53

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 :1135929.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF :728153.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1958687.0/18

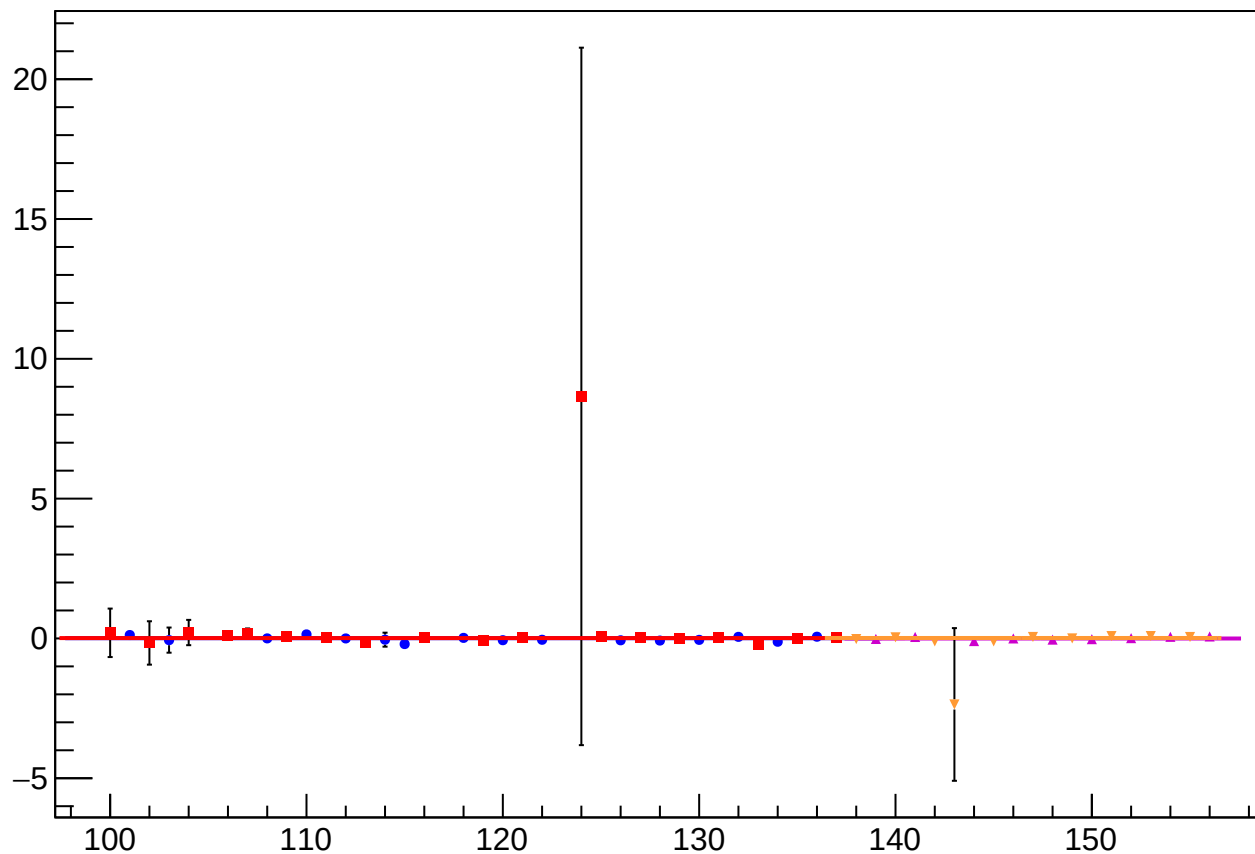
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF :4405051.7/24

Out: 0.000+/-0.000 χ^2/NDF :5156497.4/28

All: 0.000+/-0.000 χ^2/NDF : 9694422.2/53

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

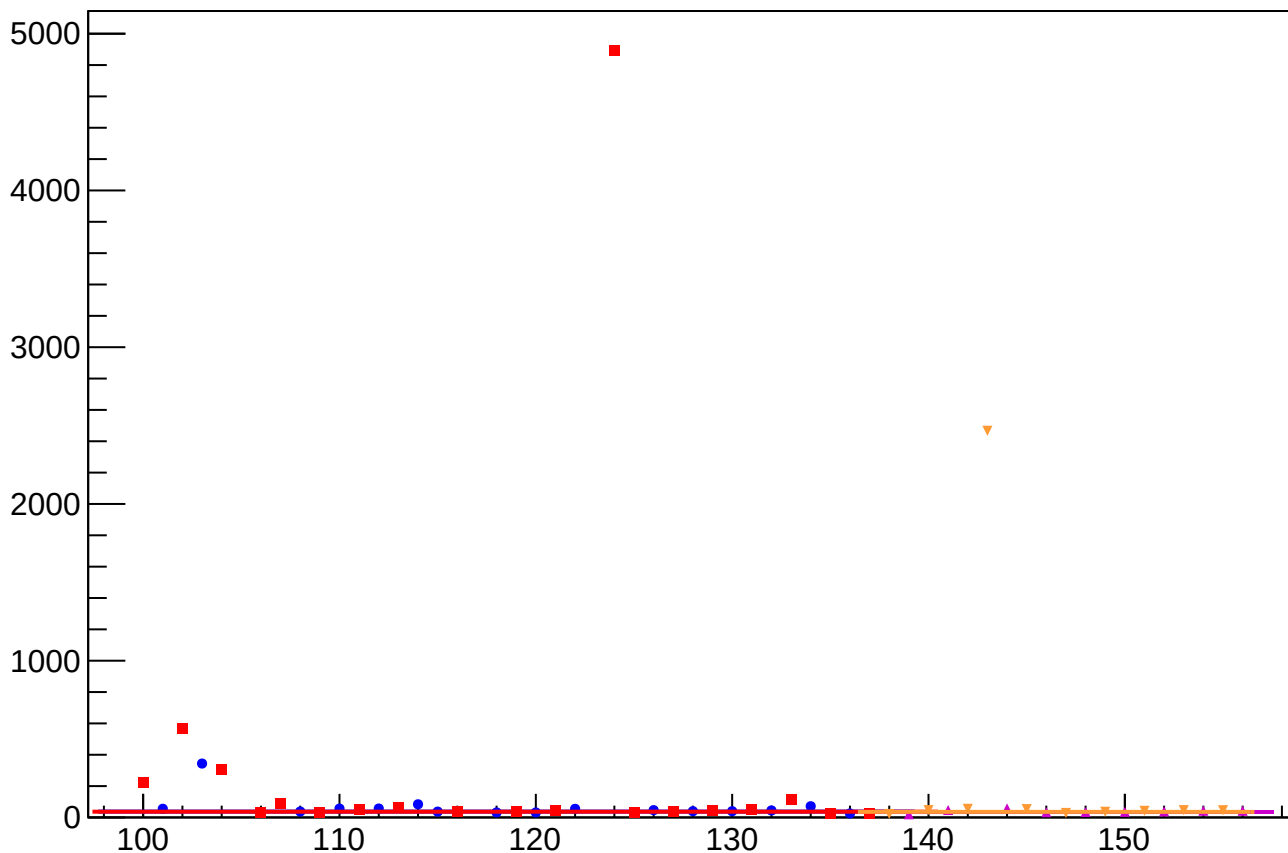
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

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: 35.641 $\pm$ 0.010 χ^2 /NDF: 2680727.1/9

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.713 $\pm$ 0.010 χ^2 /NDF: 1064226.5/8

Left: 35.144 $\pm$ 0.007 χ^2 /NDF: 3749154.3/18

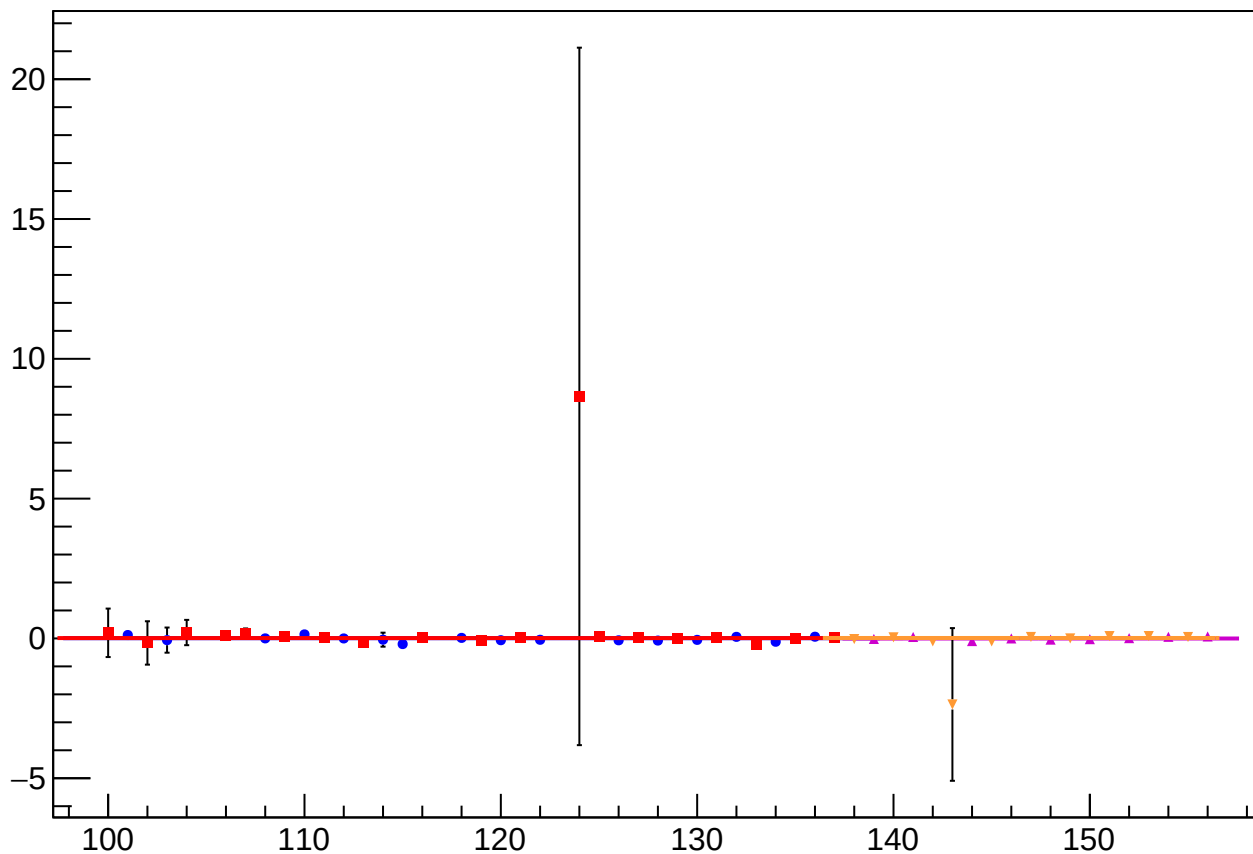
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.893 $\pm$ 0.007 χ^2 /NDF: 3081964.1/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876536.2/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8959030.0/53

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

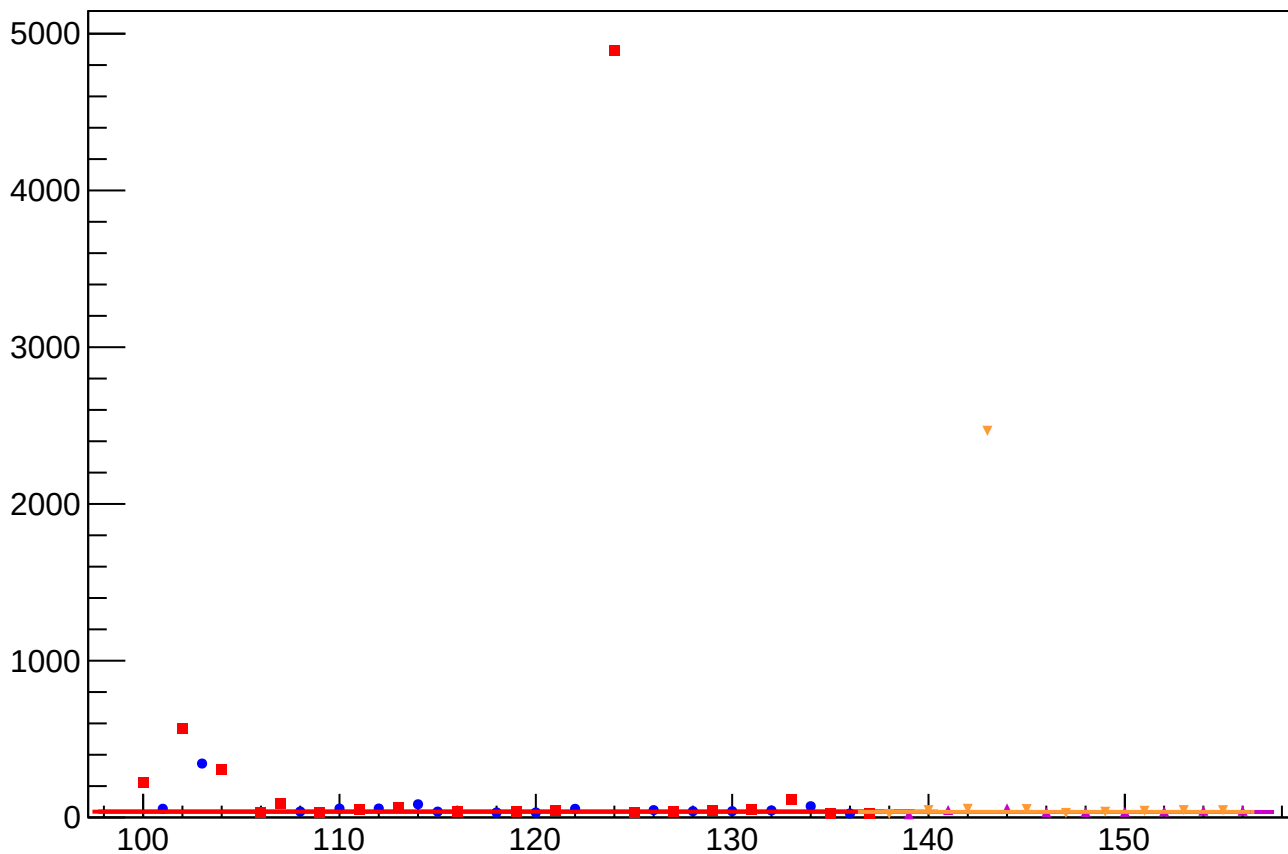
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

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: 35.641 $\pm$ 0.010 χ^2 /NDF: 2680727.1/9

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.713 $\pm$ 0.010 χ^2 /NDF: 1064226.5/8

Left: 35.144 $\pm$ 0.007 χ^2 /NDF: 3749154.3/18

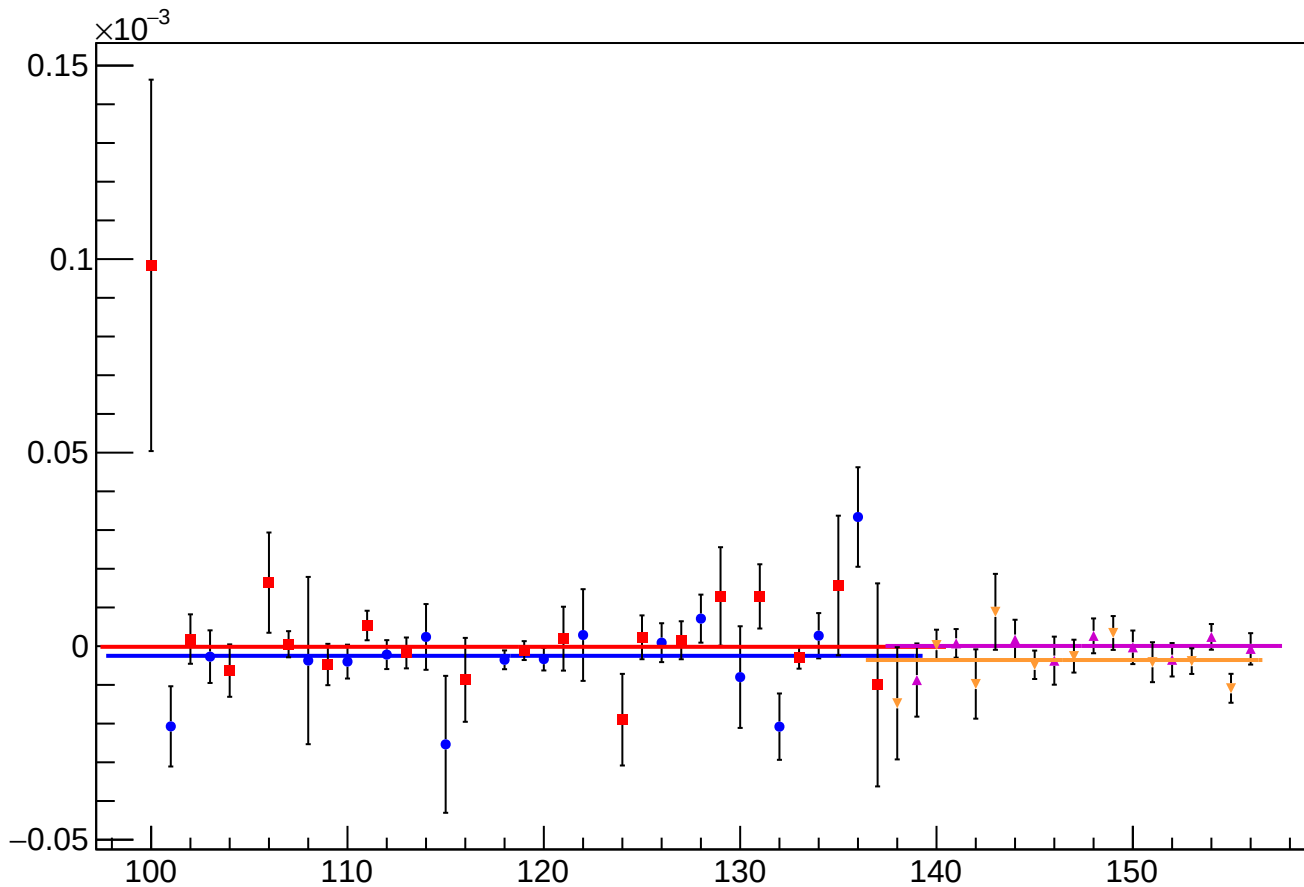
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.893 $\pm$ 0.007 χ^2 /NDF: 3081964.1/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876536.2/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8959030.0/53

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 : 10.2/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 18.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 2.9/8

Left: -0.000 ± 0.000 χ^2/NDF : 16.2/18

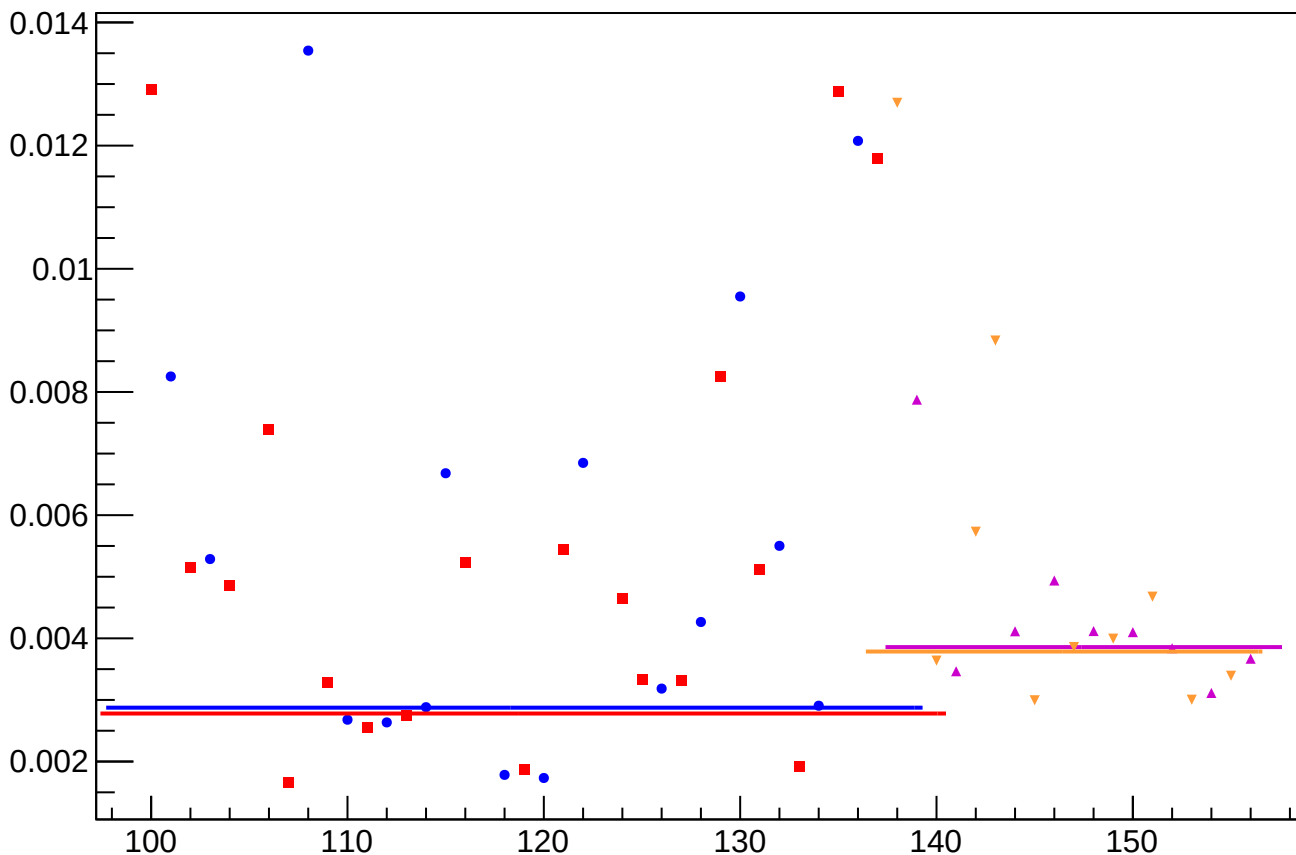
Right: -0.000 ± 0.000 χ^2/NDF : 42.5/34

In: -0.000 ± 0.000 χ^2/NDF : 26.5/24

Out: -0.000 ± 0.000 χ^2/NDF : 32.4/28

All: -0.000 ± 0.000 χ^2/NDF : 58.8/53

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 :1674830.2/9

Right Out: 0.003+/-0.000 χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000 χ^2/NDF :566939.8/8

Left: 0.004+/-0.000 χ^2/NDF : 2244183.8/18

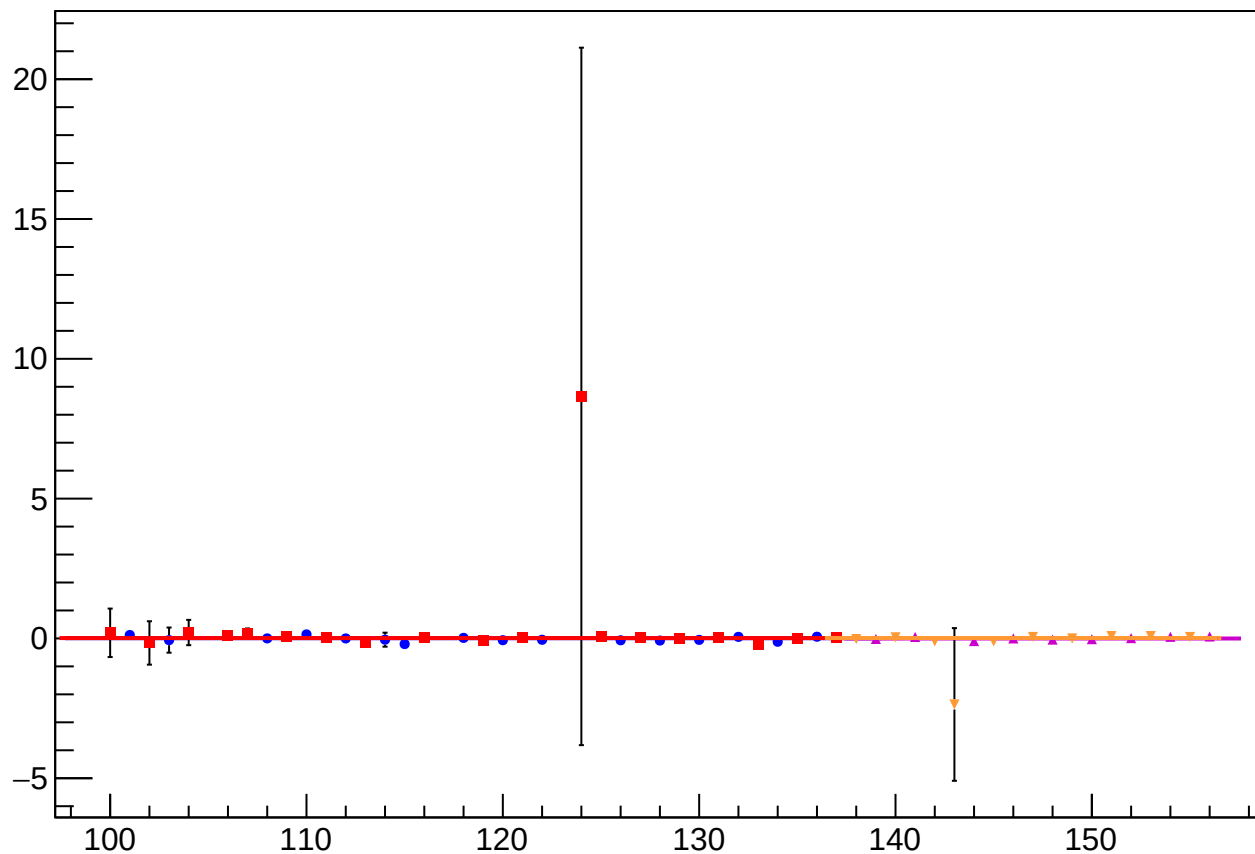
Right: 0.003+/-0.000 χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000 χ^2/NDF :5215405.0/24

Out: 0.003+/-0.000 χ^2/NDF :5566555.8/28

All: 0.003+/-0.000 χ^2/NDF : 10800177.5/53

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

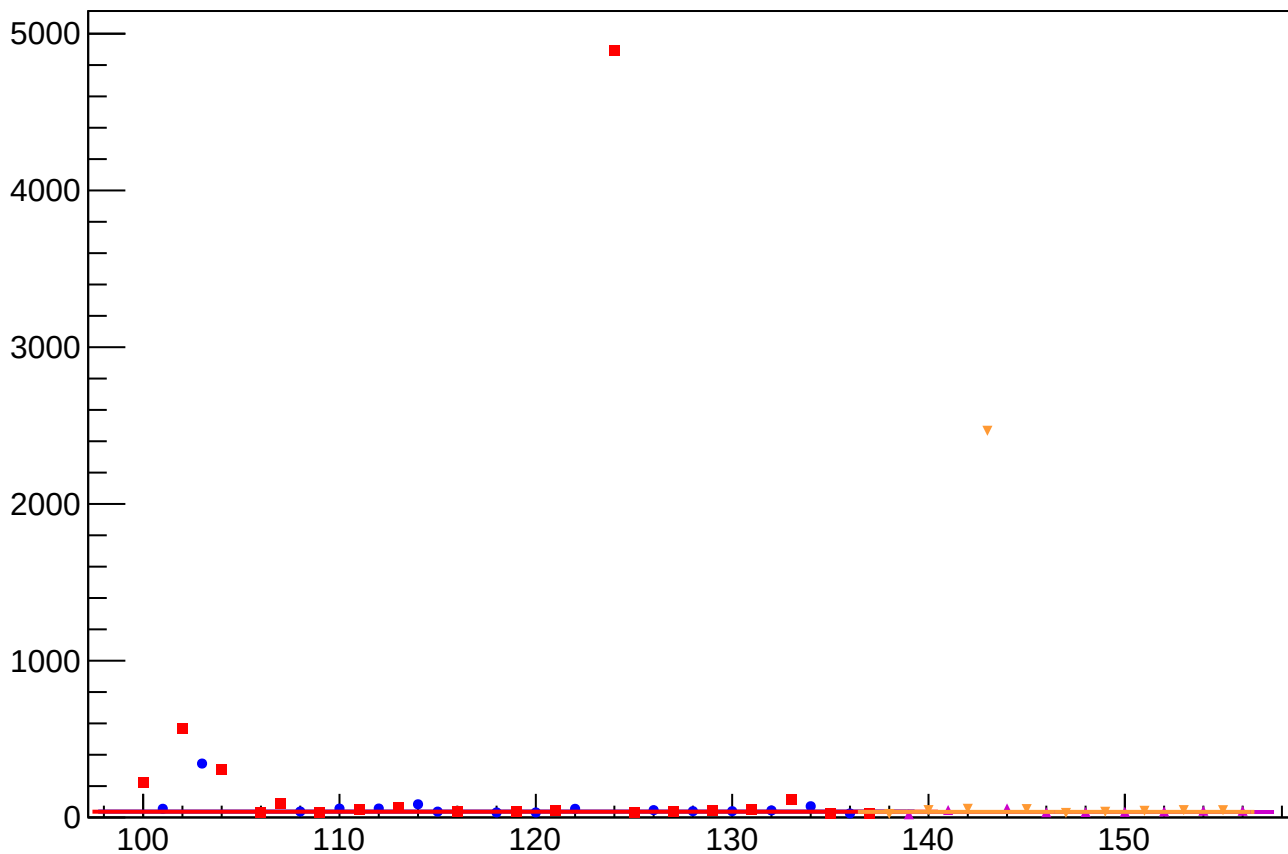
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

asym_atl_dd_atr_dd_dd_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: 35.639 $\pm$ 0.010 χ^2 /NDF: 2681192.6/9

Right Out: 36.769 $\pm$ 0.012 χ^2 /NDF: 3190400.7/18

Left In: 34.717 $\pm$ 0.010 χ^2 /NDF: 1063285.1/8

Left: 35.145 $\pm$ 0.007 χ^2 /NDF: 3748621.8/18

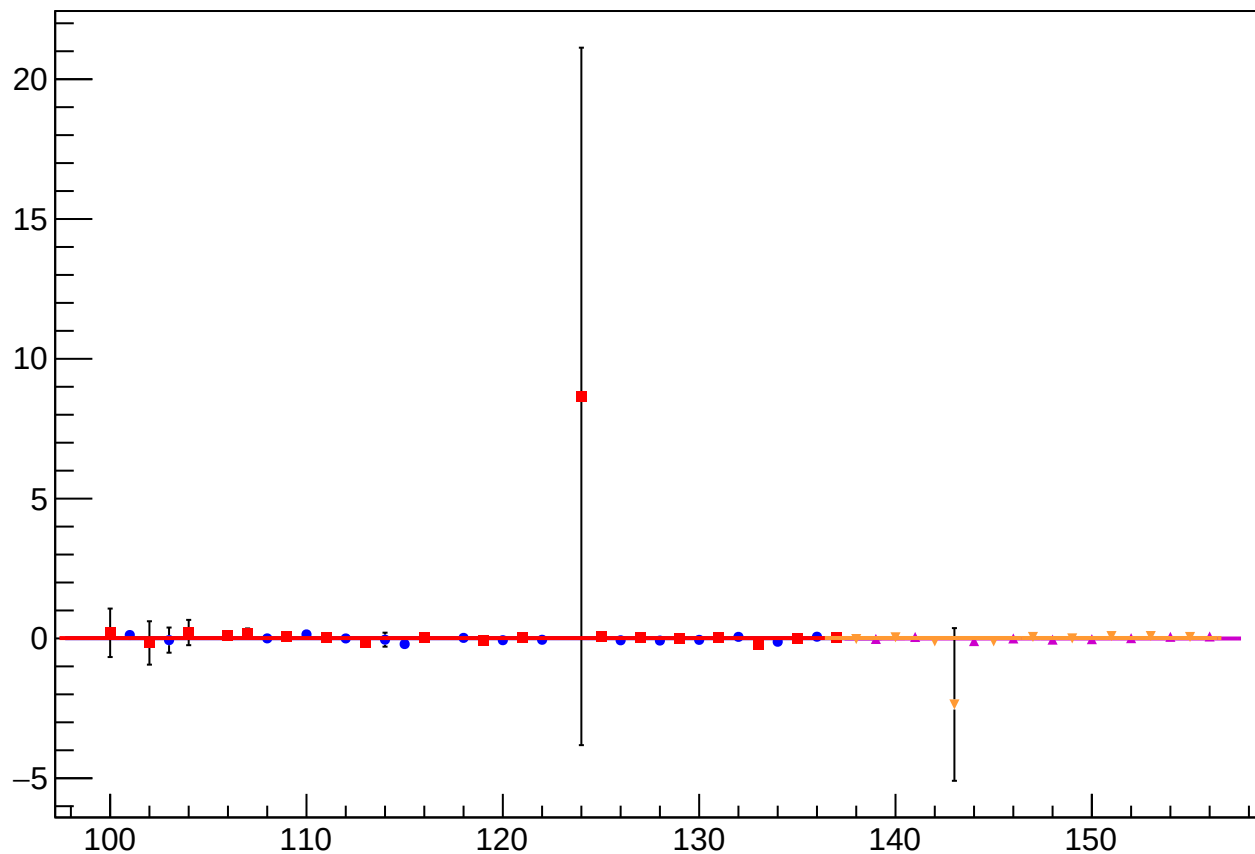
Right: 37.144 $\pm$ 0.008 χ^2 /NDF: 5175578.4/34

In: 35.895 $\pm$ 0.007 χ^2 /NDF: 3080877.9/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876742.7/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8958136.9/53

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

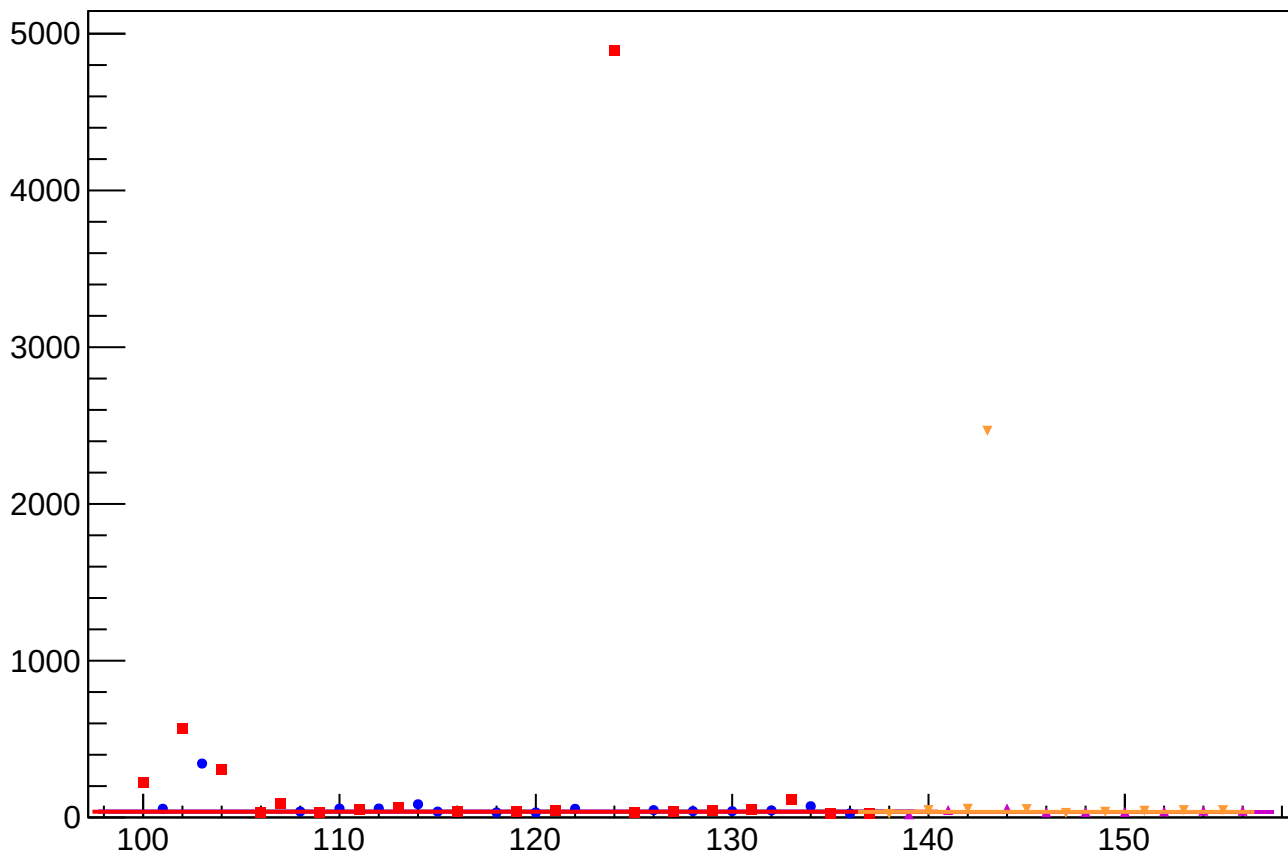
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

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: 35.639+/-0.010 χ^2/NDF : 2681192.6/9

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 34.717+/-0.010 χ^2/NDF : 1063285.1/8

Left: 35.145+/-0.007 χ^2/NDF : 3748621.8/18

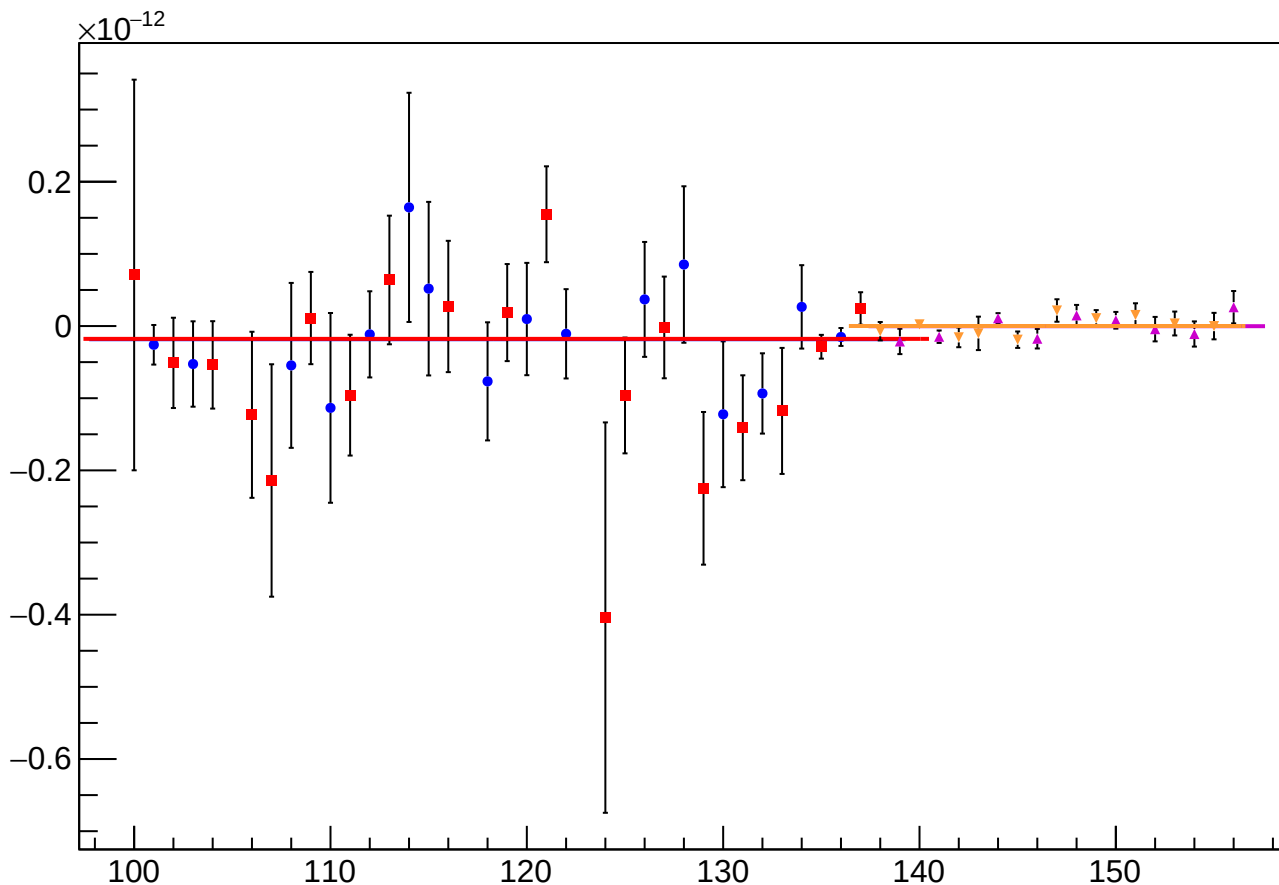
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 35.895+/-0.007 χ^2/NDF : 3080877.9/24

Out: 36.140+/-0.008 χ^2/NDF : 5876742.7/28

All: 36.010+/-0.005 χ^2/NDF : 8958136.9/53

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 : 8.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 27.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.8/8

Left: -0.000+/-0.000 χ^2/NDF : 20.3/18

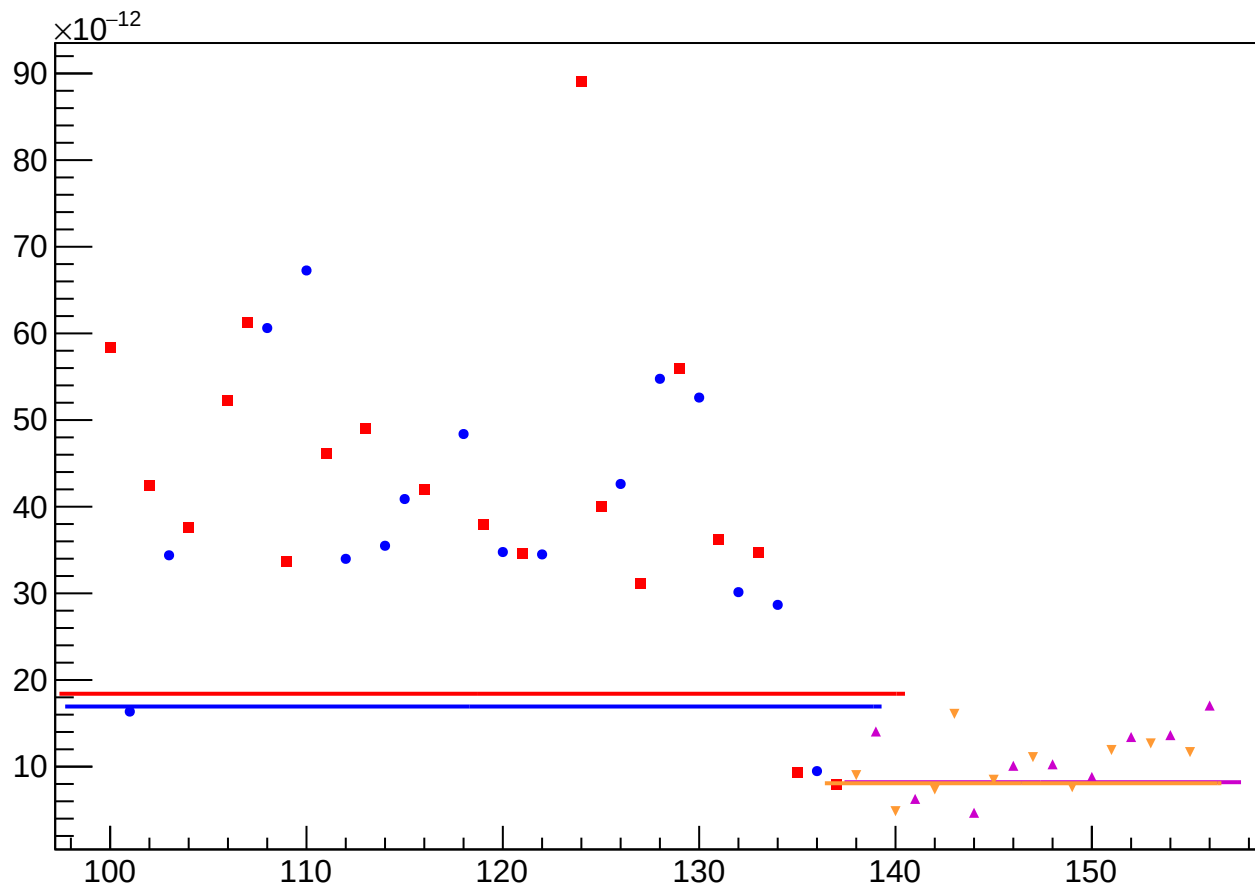
Right: -0.000+/-0.000 χ^2/NDF : 35.6/34

In: -0.000+/-0.000 χ^2/NDF : 23.0/24

Out: -0.000+/-0.000 χ^2/NDF : 38.0/28

All: -0.000+/-0.000 χ^2/NDF : 61.0/53

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 :1135106.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1605295.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2741357.9/18

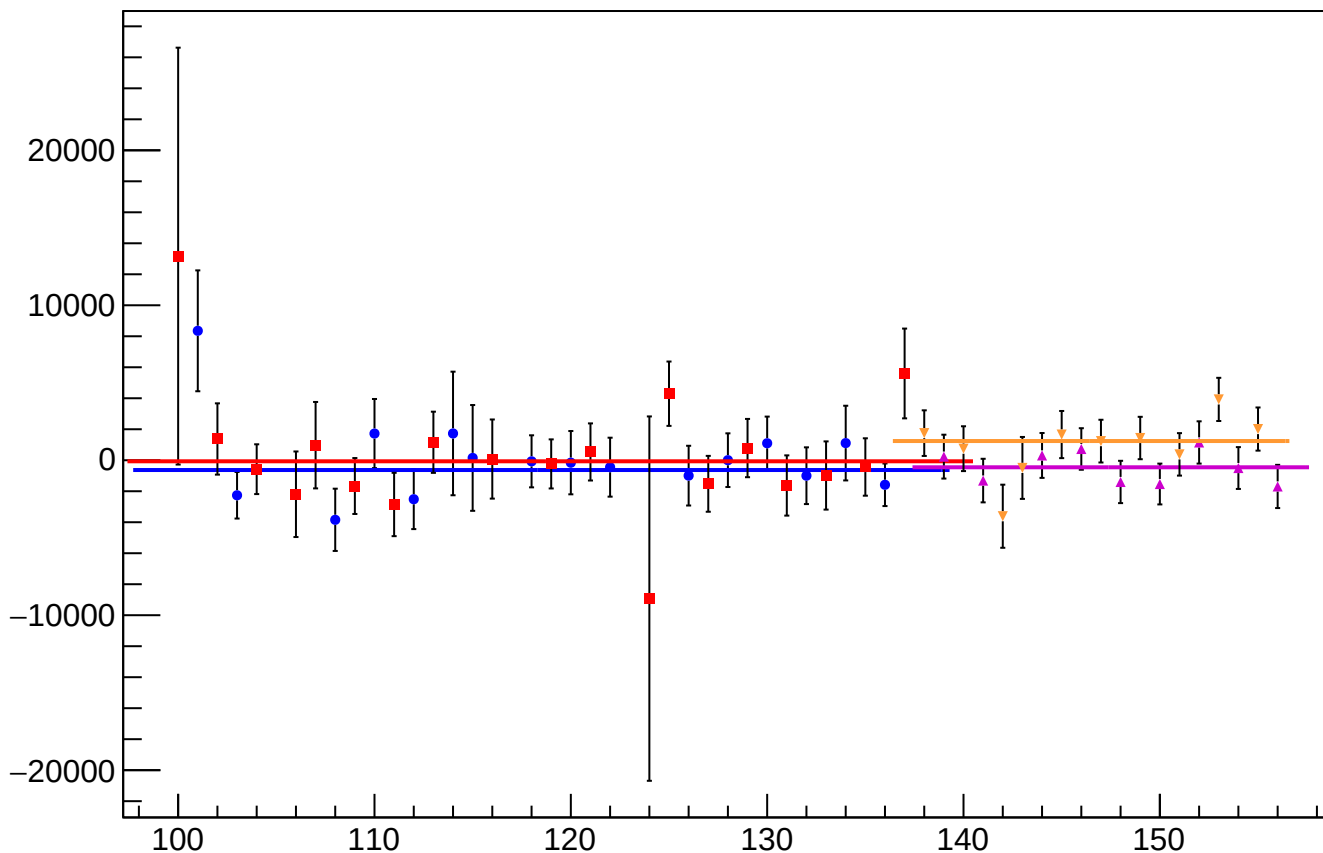
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

In: 0.000+/-0.000 χ^2/NDF :6150532.3/24

Out: 0.000+/-0.000 χ^2/NDF :6362255.7/28

All: 0.000+/-0.000 χ^2/NDF : 12515219.1/53

reg_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.041 $\pm$ 488.663 χ^2 /NDF: 13.9/15

Left Out: 1239.494 $\pm$ 472.044 χ^2 /NDF: 11.2/9

Right Out: -67.642 $\pm$ 487.761 χ^2 /NDF: 15.9/18

Left In: -454.527 $\pm$ 458.666 χ^2 /NDF: 5.0/8

Left: 368.137 $\pm$ 328.954 χ^2 /NDF: 22.8/18

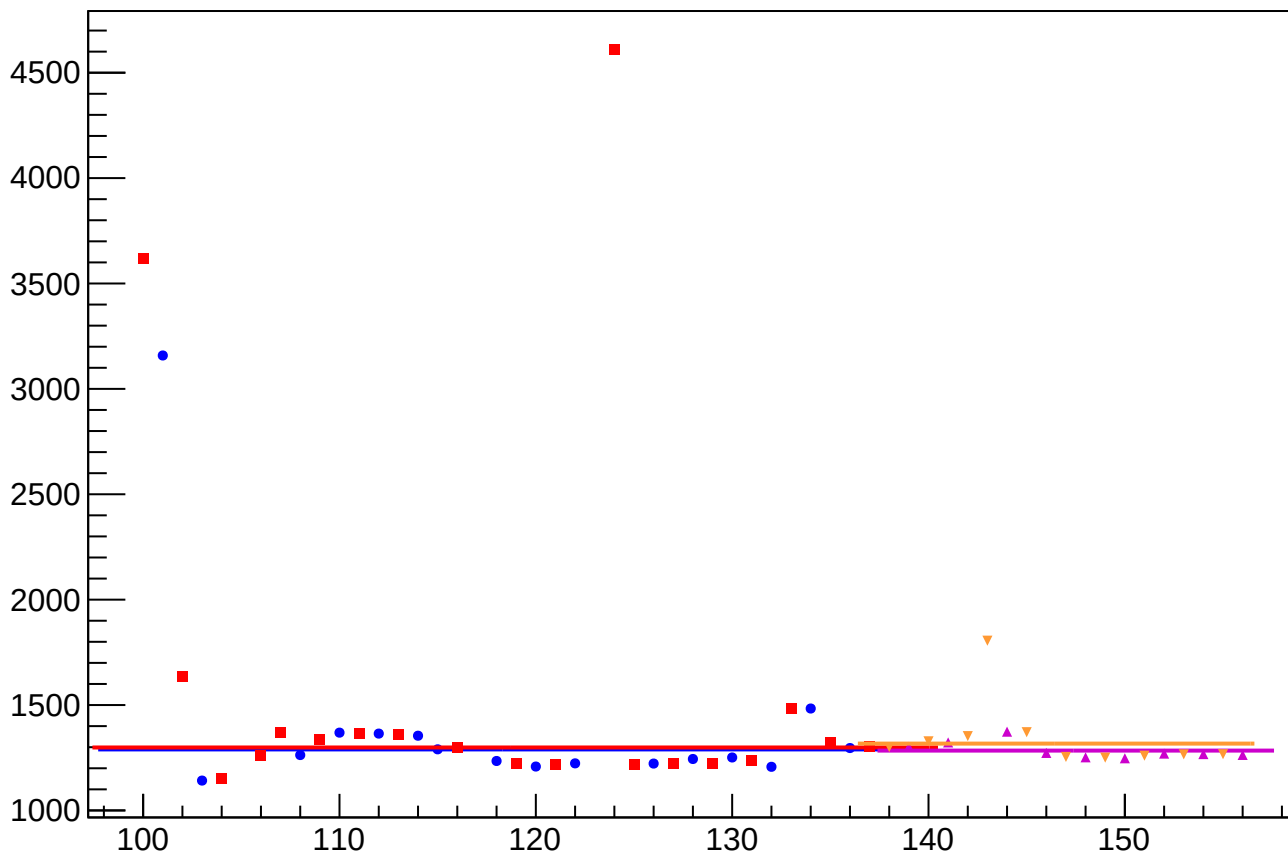
Right: -348.821 $\pm$ 345.217 χ^2 /NDF: 30.4/34

In: -537.200 $\pm$ 334.428 χ^2 /NDF: 19.0/24

Out: 607.324 $\pm$ 339.206 χ^2 /NDF: 30.8/28

All: 26.944 $\pm$ 238.147 χ^2 /NDF: 55.5/53

reg_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514675.0/15

Left Out: 1317.078 $\pm$ 0.334 χ^2 /NDF: 140622.0/9

Right Out: 1298.656 $\pm$ 0.344 χ^2 /NDF: 319374.9/18

Left In: 1283.902 $\pm$ 0.324 χ^2 /NDF: 13252.2/8

Left: 1300.013 $\pm$ 0.233 χ^2 /NDF: 158955.5/18

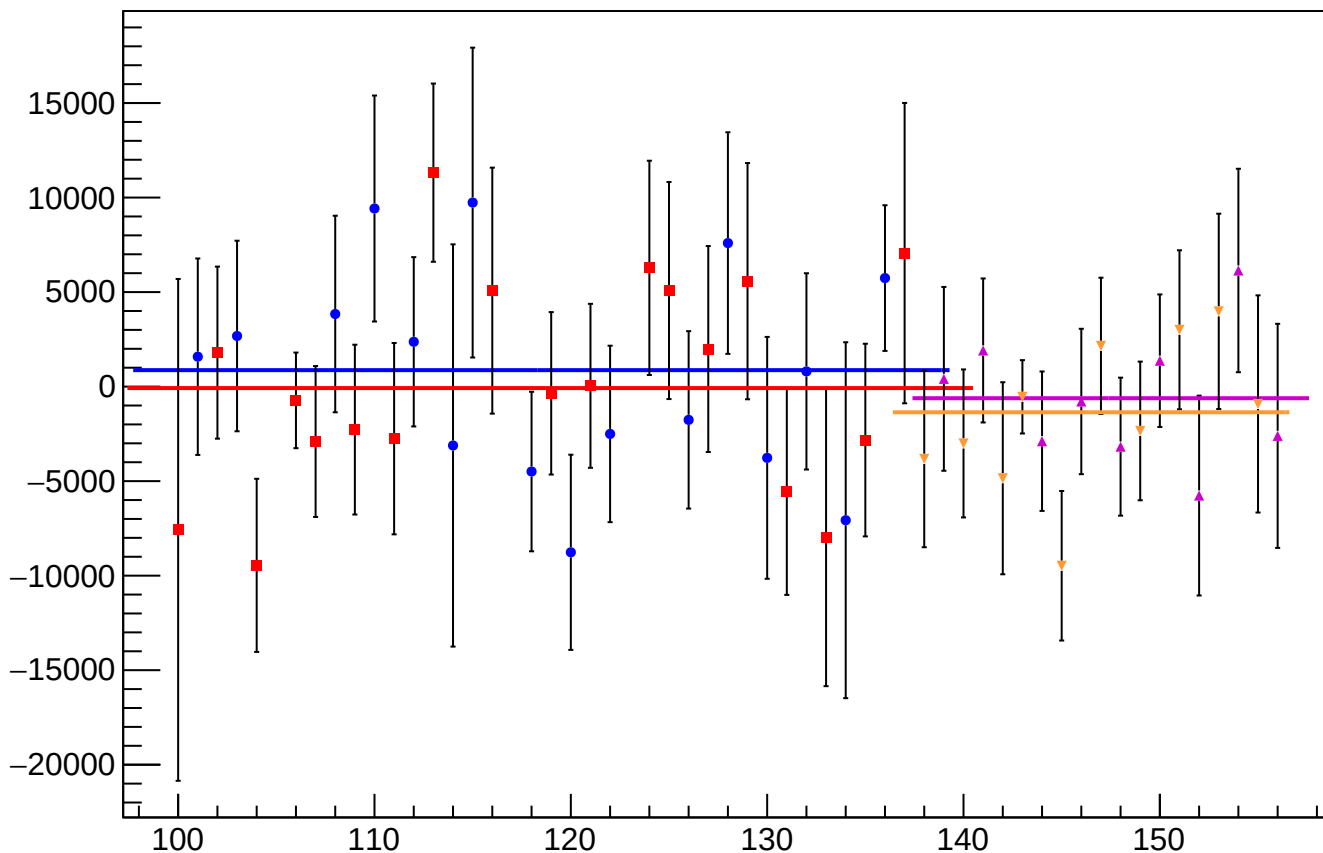
Right: 1294.081 $\pm$ 0.244 χ^2 /NDF: 834405.1/34

In: 1286.508 $\pm$ 0.236 χ^2 /NDF: 528065.1/24

Out: 1308.144 $\pm$ 0.240 χ^2 /NDF: 461474.0/28

All: 1297.186 $\pm$ 0.168 χ^2 /NDF: 993670.6/53

asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 ± 1325.278 $\chi^2/\text{NDF}: 14.0/15$

Left Out: -1357.908 ± 1150.718 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -77.323 ± 1111.074 $\chi^2/\text{NDF}: 18.4/18$

Left In: -613.837 ± 1403.529 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.804 ± 889.868 $\chi^2/\text{NDF}: 13.0/18$

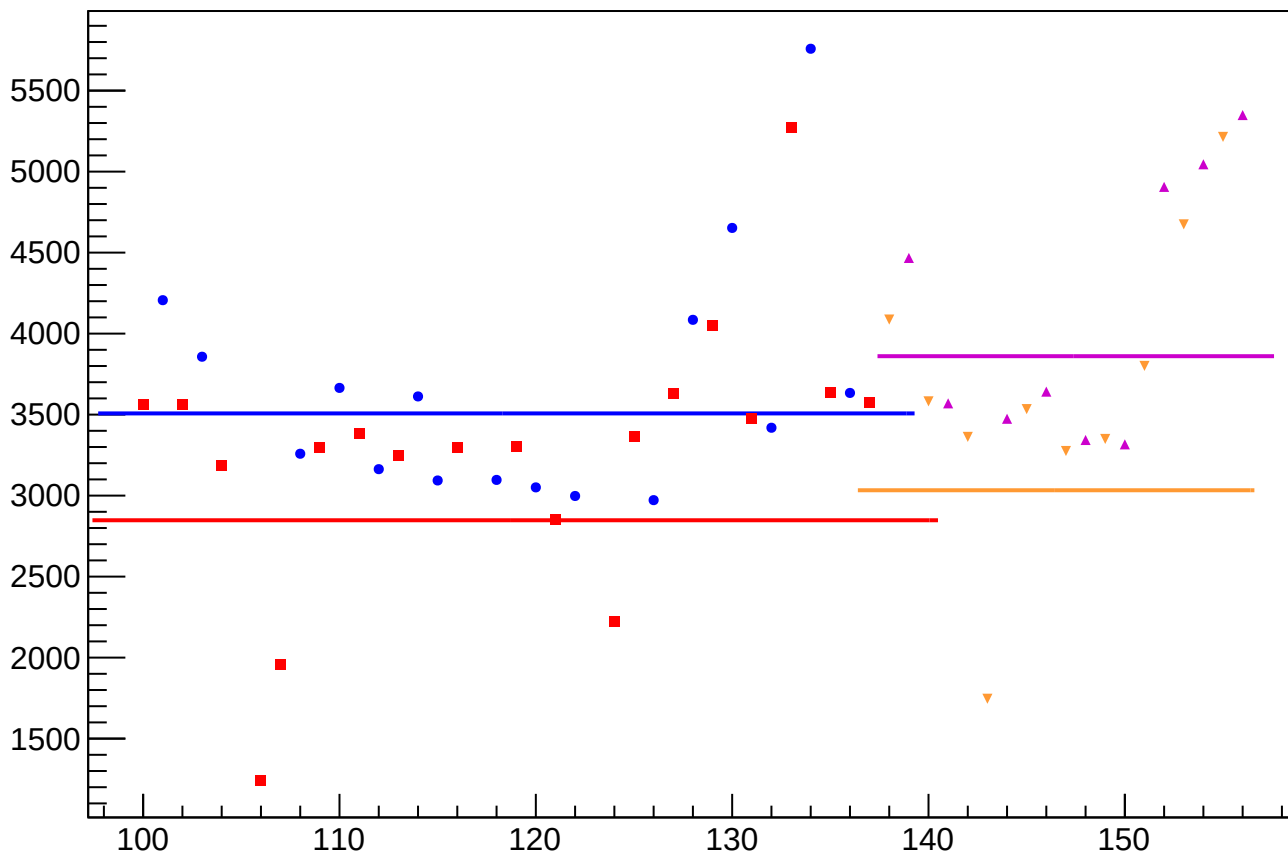
Right: 313.810 ± 851.438 $\chi^2/\text{NDF}: 32.7/34$

In: 170.753 ± 963.590 $\chi^2/\text{NDF}: 18.9/24$

Out: -695.177 ± 799.296 $\chi^2/\text{NDF}: 27.5/28$

All: -342.218 ± 615.195 $\chi^2/\text{NDF}: 46.9/53$

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: 3033.033+/-0.814 χ^2/NDF : 1643086.7/9

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 3860.635+/-0.992 χ^2/NDF : 460841.9/8

Left: 3365.715+/-0.629 χ^2/NDF : 2519785.1/18

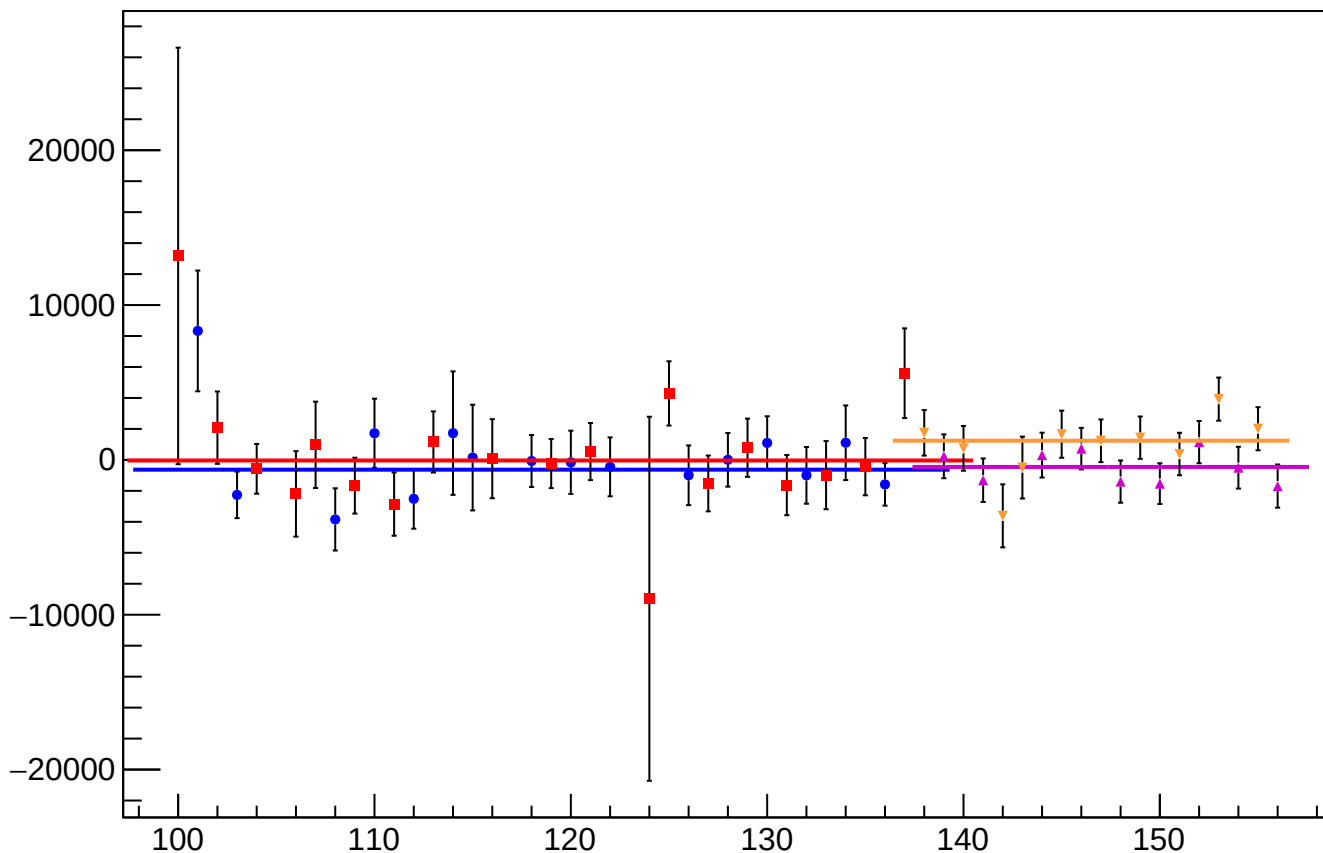
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3673.895+/-0.681 χ^2/NDF : 881792.8/24

Out: 2937.188+/-0.565 χ^2/NDF : 3169270.6/28

All: 3237.474+/-0.435 χ^2/NDF : 4743605.1/53

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

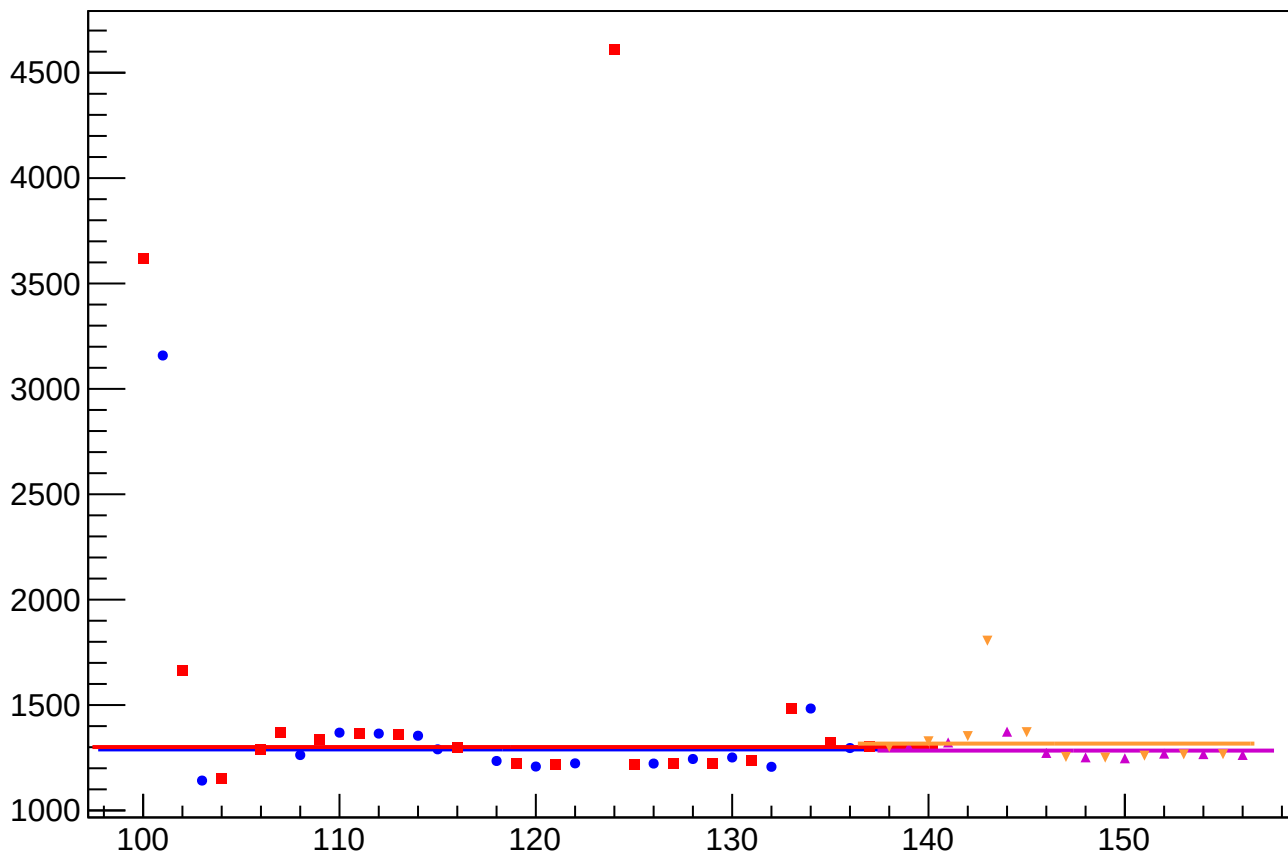
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1317.078 $\pm$ 0.334 χ^2 /NDF: 140622.0/9

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1283.902 $\pm$ 0.324 χ^2 /NDF: 13252.2/8

Left: 1300.013 $\pm$ 0.233 χ^2 /NDF: 158955.5/18

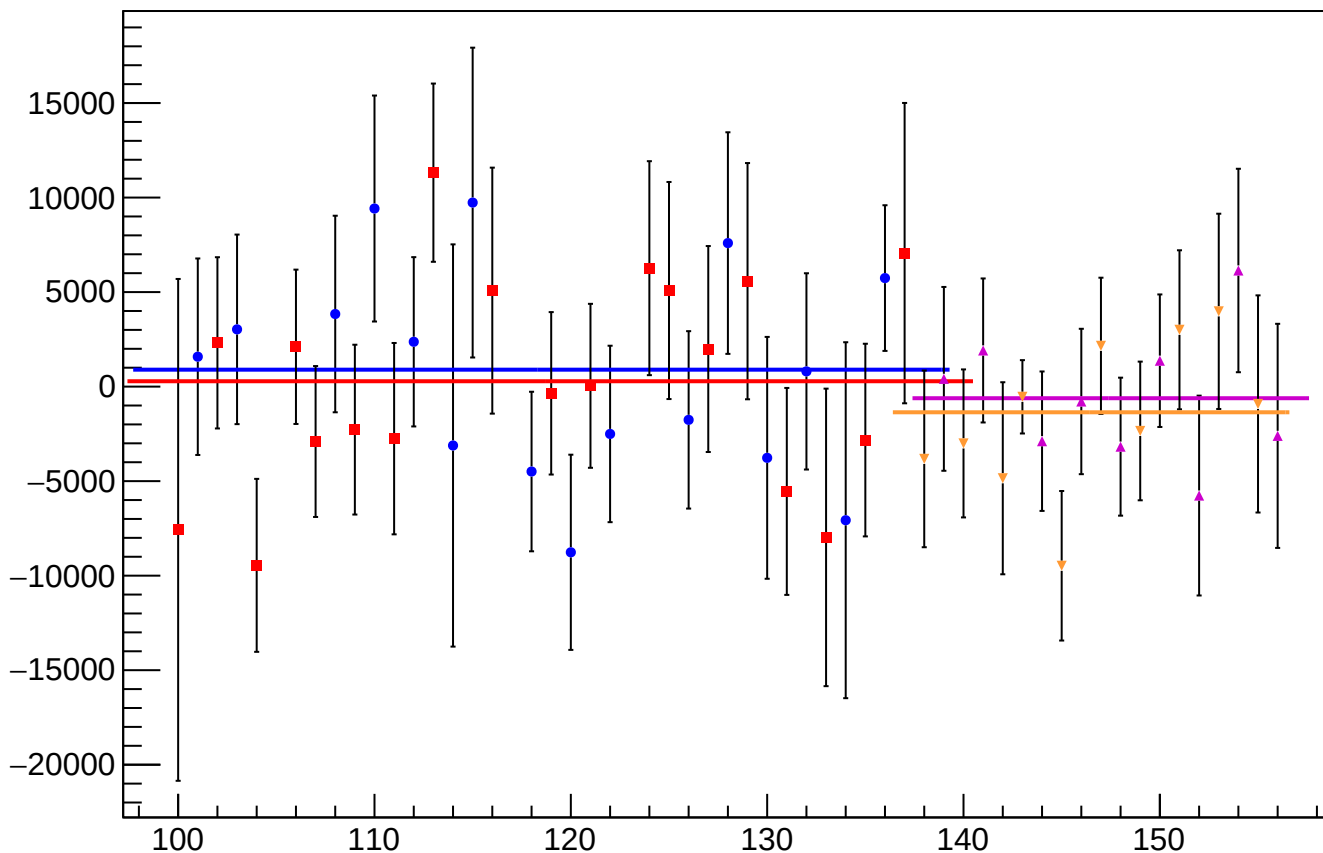
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1286.508 $\pm$ 0.236 χ^2 /NDF: 528066.5/24

Out: 1309.140 $\pm$ 0.240 χ^2 /NDF: 467697.7/28

All: 1297.670 $\pm$ 0.168 χ^2 /NDF: 1000281.5/53

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: -1357.832 ± 1150.716 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: -613.900 ± 1403.527 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.784 ± 889.866 $\chi^2/\text{NDF}: 13.0/18$

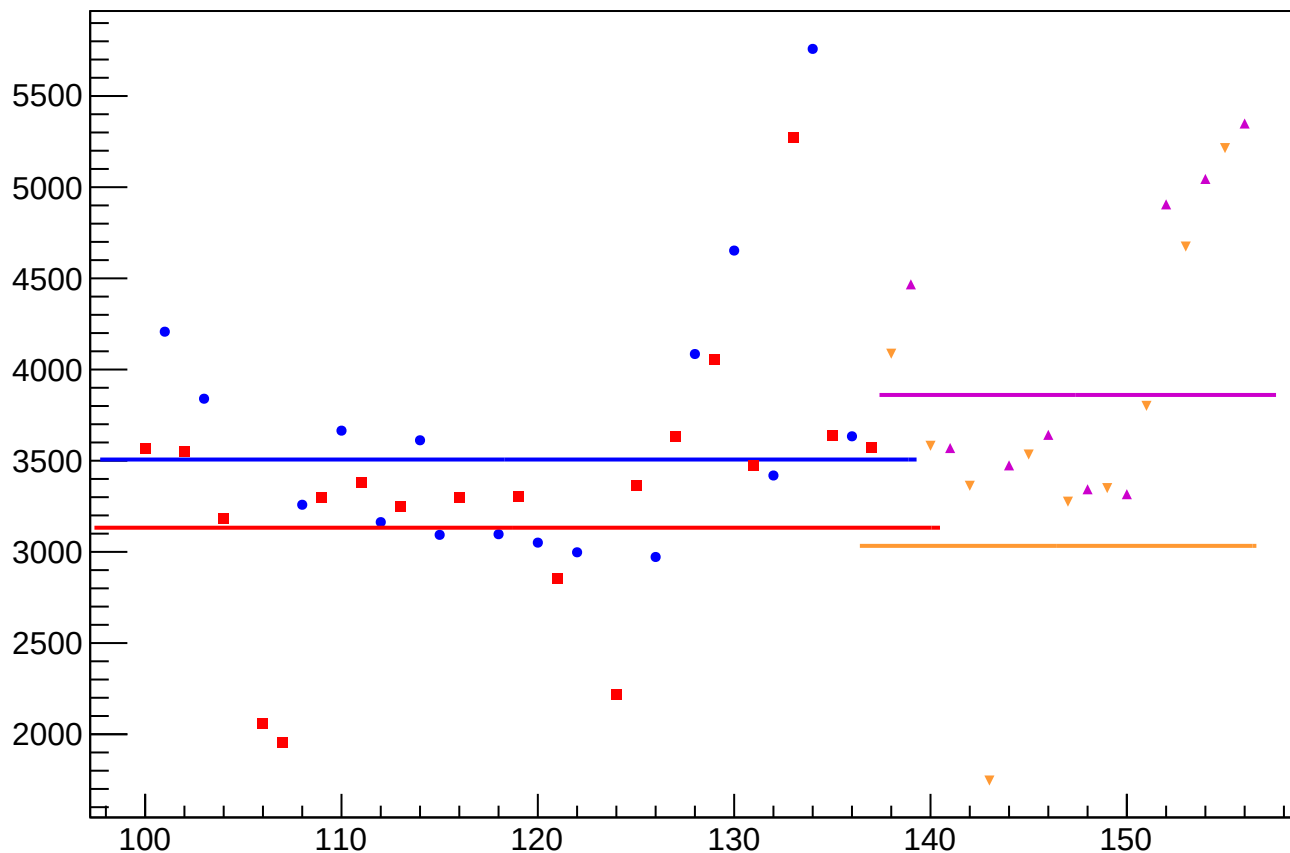
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 184.578 ± 963.414 $\chi^2/\text{NDF}: 19.0/24$

Out: -559.761 ± 824.914 $\chi^2/\text{NDF}: 28.1/28$

All: -244.894 ± 626.601 $\chi^2/\text{NDF}: 47.5/53$

asym_at1_avg_at2_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 ± 0.937 $\chi^2/\text{NDF}: 353237.7/15$

Left Out: 3033.023 ± 0.814 $\chi^2/\text{NDF}: 1643113.7/9$

Right Out: 3132.586 ± 0.837 $\chi^2/\text{NDF}: 649611.1/18$

Left In: 3860.630 ± 0.992 $\chi^2/\text{NDF}: 460842.4/8$

Left: 3365.707 ± 0.629 $\chi^2/\text{NDF}: 2519818.7/18$

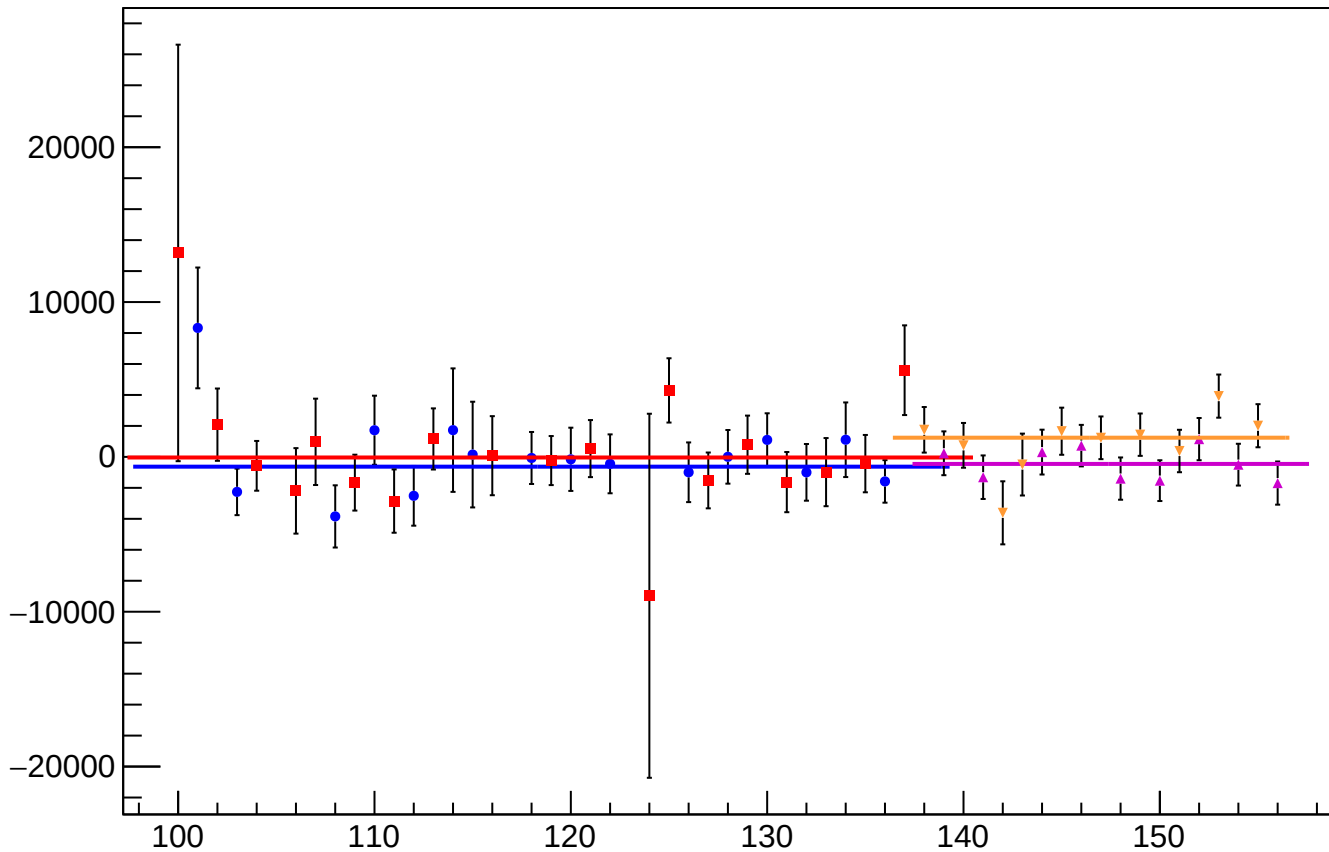
Right: 3298.485 ± 0.624 $\chi^2/\text{NDF}: 1091468.2/34$

In: 3673.349 ± 0.681 $\chi^2/\text{NDF}: 881418.4/24$

Out: 3081.420 ± 0.583 $\chi^2/\text{NDF}: 2300002.9/28$

All: 3331.815 ± 0.443 $\chi^2/\text{NDF}: 3617041.1/53$

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

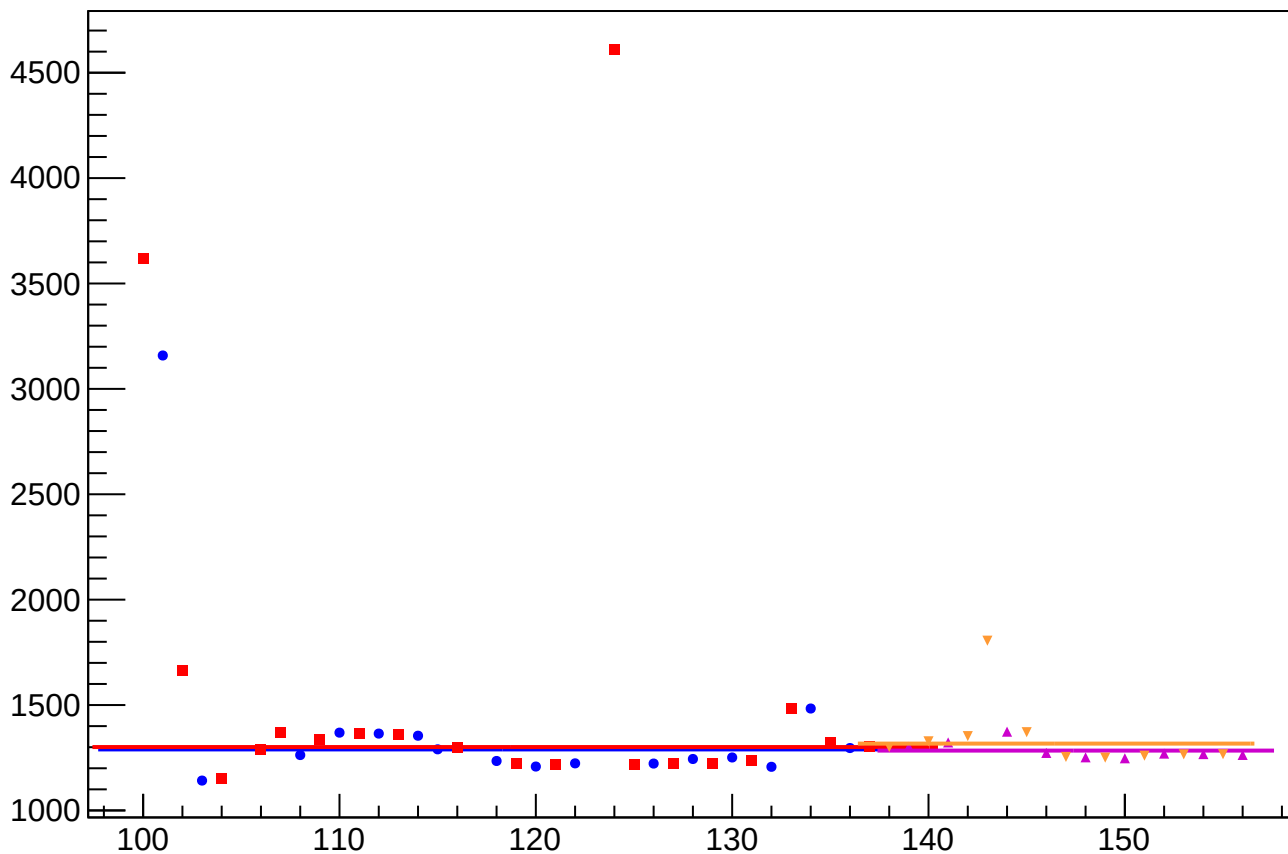
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1317.078 $\pm$ 0.334 χ^2 /NDF:140622.0/9

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1283.902 $\pm$ 0.324 χ^2 /NDF:13252.2/8

Left: 1300.013 $\pm$ 0.233 χ^2 /NDF: 158955.5/18

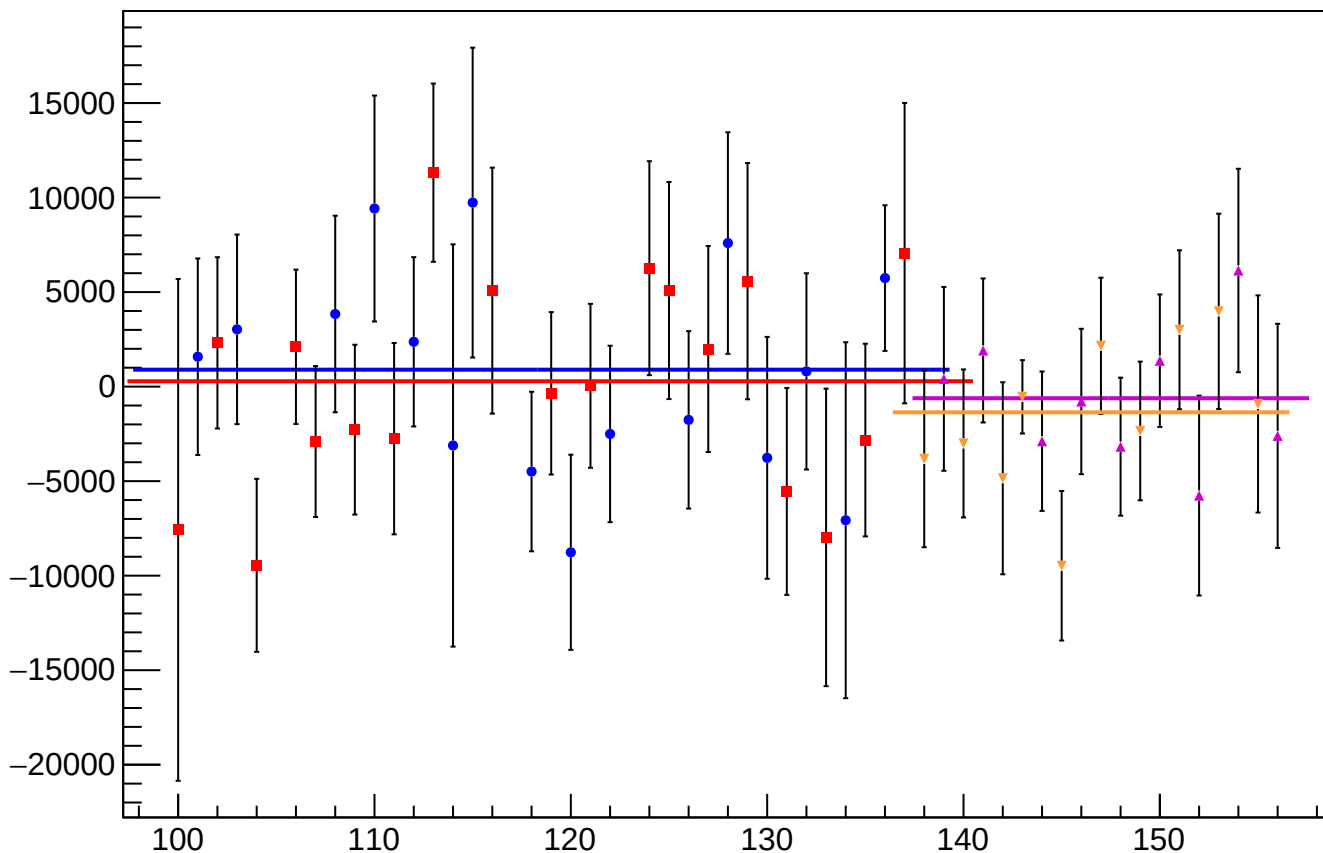
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1286.508 $\pm$ 0.236 χ^2 /NDF:528066.5/24

Out: 1309.140 $\pm$ 0.240 χ^2 /NDF:467697.7/28

All: 1297.670 $\pm$ 0.168 χ^2 /NDF: 1000281.5/53

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -1357.832 $\pm$ 1150.716 χ^2 /NDF:8.5/9

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: -613.900 $\pm$ 1403.527 χ^2 /NDF:4.3/8

Left: -1058.784 $\pm$ 889.866 χ^2 /NDF: 13.0/18

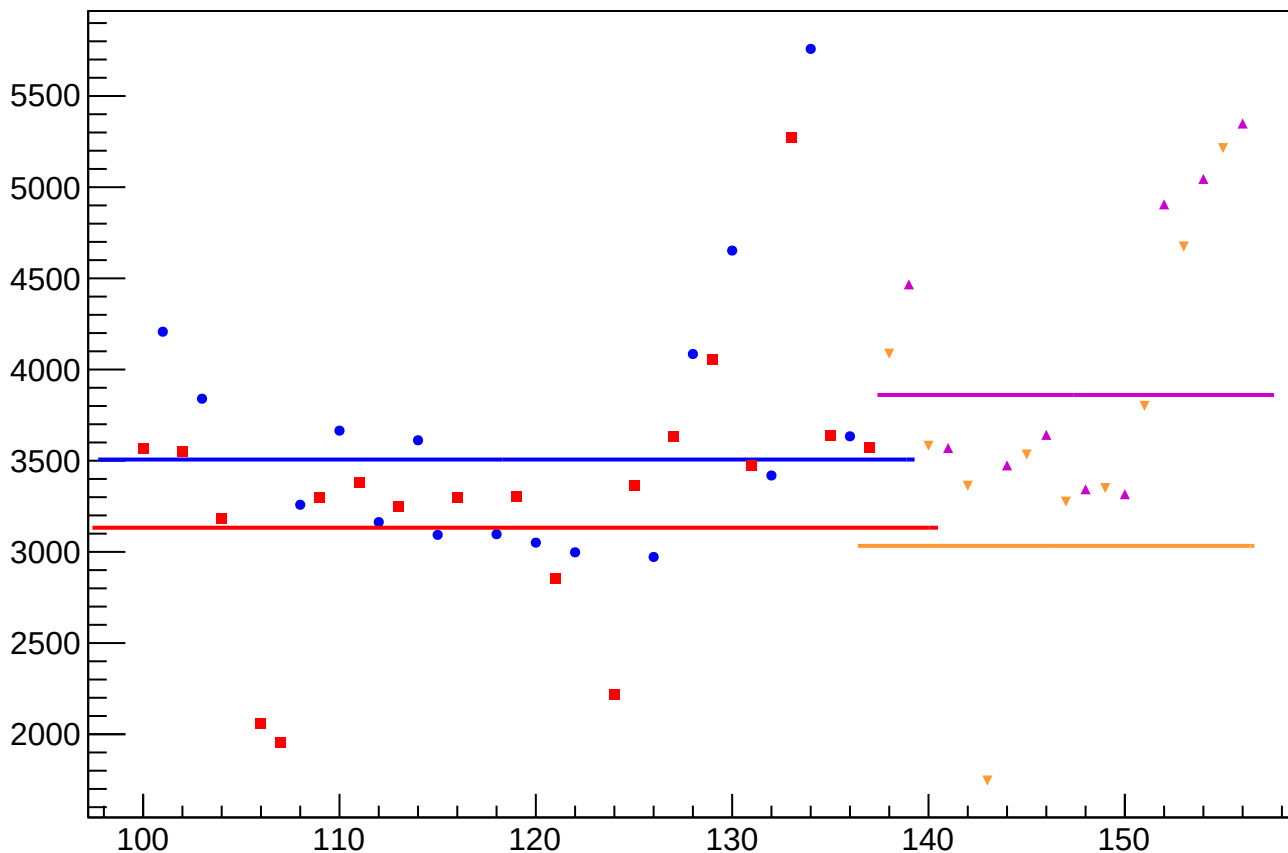
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: 184.578 $\pm$ 963.414 χ^2 /NDF:19.0/24

Out: -559.761 $\pm$ 824.914 χ^2 /NDF:28.1/28

All: -244.894 $\pm$ 626.601 χ^2 /NDF: 47.5/53

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: 3033.023+/-0.814 χ^2/NDF : 1643113.7/9

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3860.630+/-0.992 χ^2/NDF : 460842.4/8

Left: 3365.707+/-0.629 χ^2/NDF : 2519818.7/18

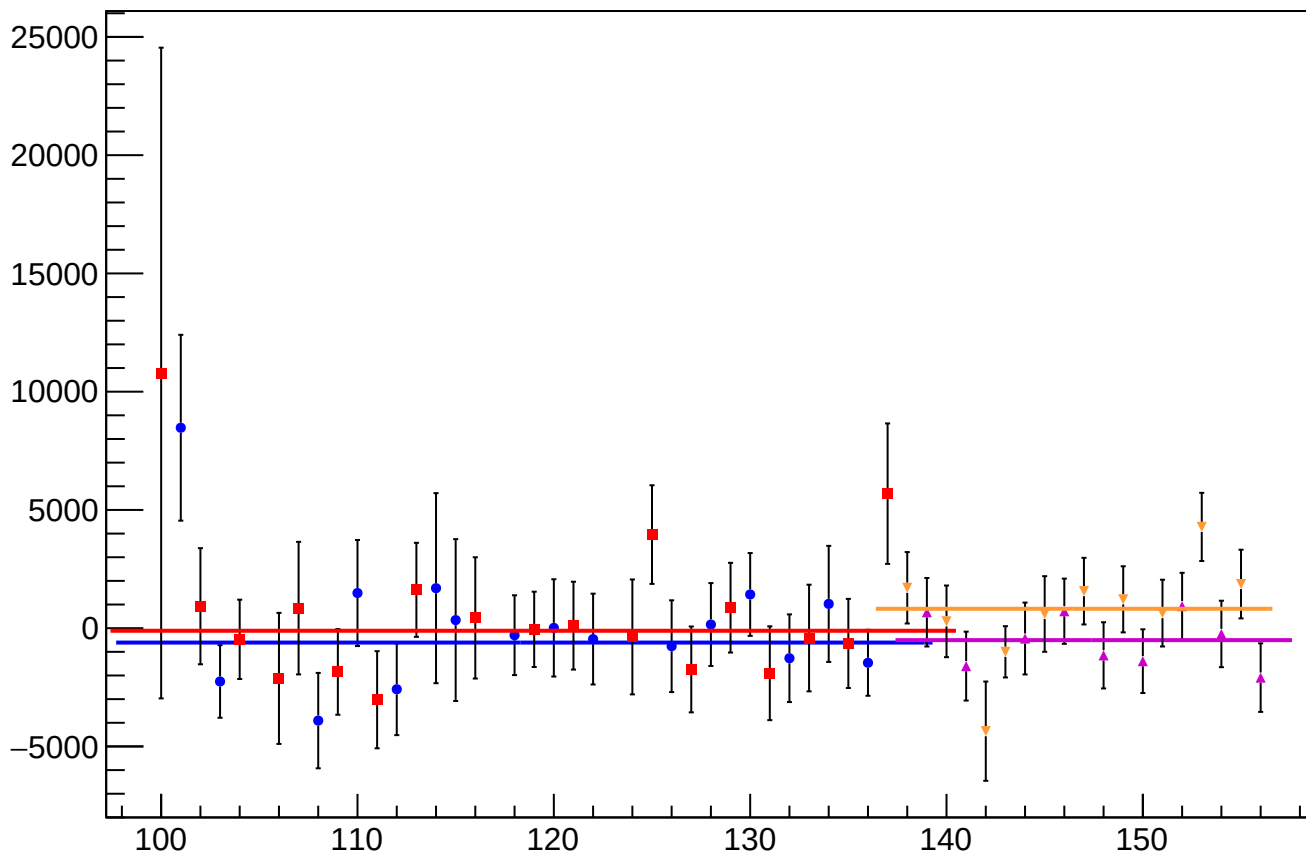
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3673.349+/-0.681 χ^2/NDF : 881418.4/24

Out: 3081.420+/-0.583 χ^2/NDF : 2300002.9/28

All: 3331.815+/-0.443 χ^2/NDF : 3617041.1/53

dit_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -607.831 ± 494.182 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 820.470 ± 455.608 $\chi^2/\text{NDF}: 16.0/9$

Right Out: -108.614 ± 485.552 $\chi^2/\text{NDF}: 14.9/18$

Left In: -505.192 ± 473.786 $\chi^2/\text{NDF}: 4.9/8$

Left: 183.559 ± 328.402 $\chi^2/\text{NDF}: 25.1/18$

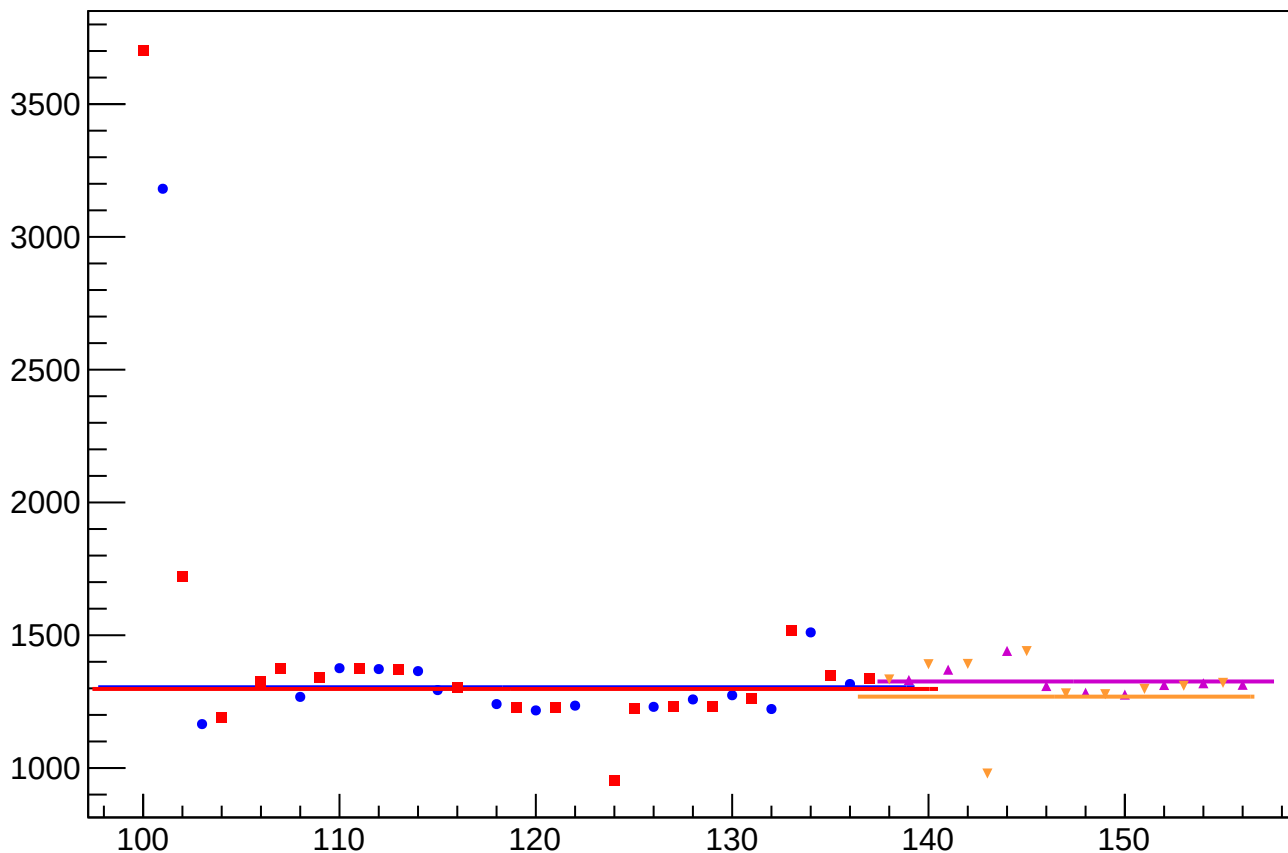
Right: -353.826 ± 346.348 $\chi^2/\text{NDF}: 29.5/34$

In: -554.350 ± 342.001 $\chi^2/\text{NDF}: 19.1/24$

Out: 385.459 ± 332.245 $\chi^2/\text{NDF}: 32.9/28$

All: -70.851 ± 238.307 $\chi^2/\text{NDF}: 55.8/53$

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: 1268.816 $\pm$ 0.322 χ^2 /NDF:194521.7/9

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1325.912 $\pm$ 0.335 χ^2 /NDF:18549.3/8

Left: 1296.248 $\pm$ 0.232 χ^2 /NDF: 228161.6/18

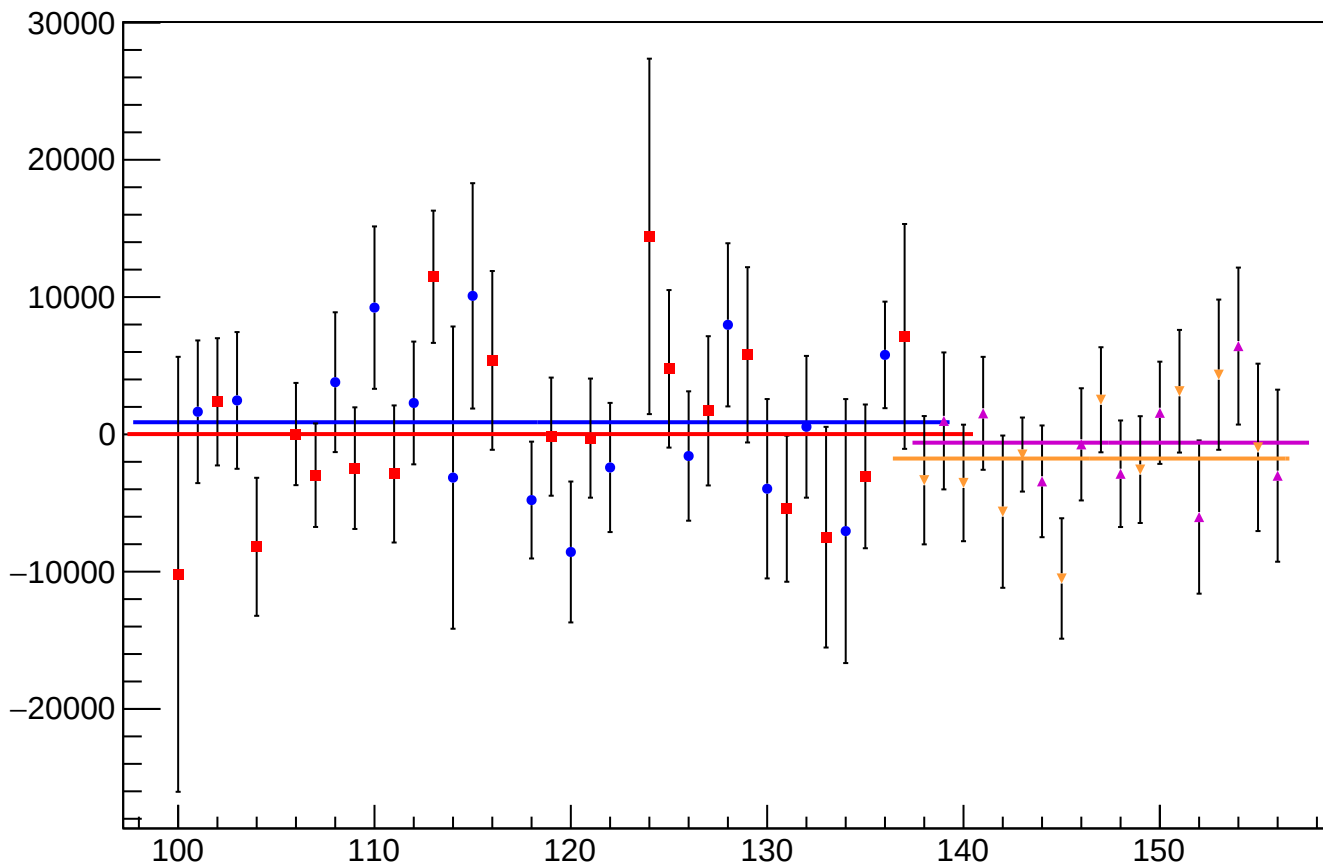
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1315.466 $\pm$ 0.242 χ^2 /NDF:531168.5/24

Out: 1282.396 $\pm$ 0.235 χ^2 /NDF:411410.3/28

All: 1298.447 $\pm$ 0.168 χ^2 /NDF: 952203.1/53

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: -1760.925+/-1326.844 χ^2/NDF : 8.5/9

Right Out: 20.681+/-1200.015 χ^2/NDF : 16.8/18

Left In: -605.876+/-1496.897 χ^2/NDF : 4.1/8

Left: -1252.709+/-992.924 χ^2/NDF : 13.0/18

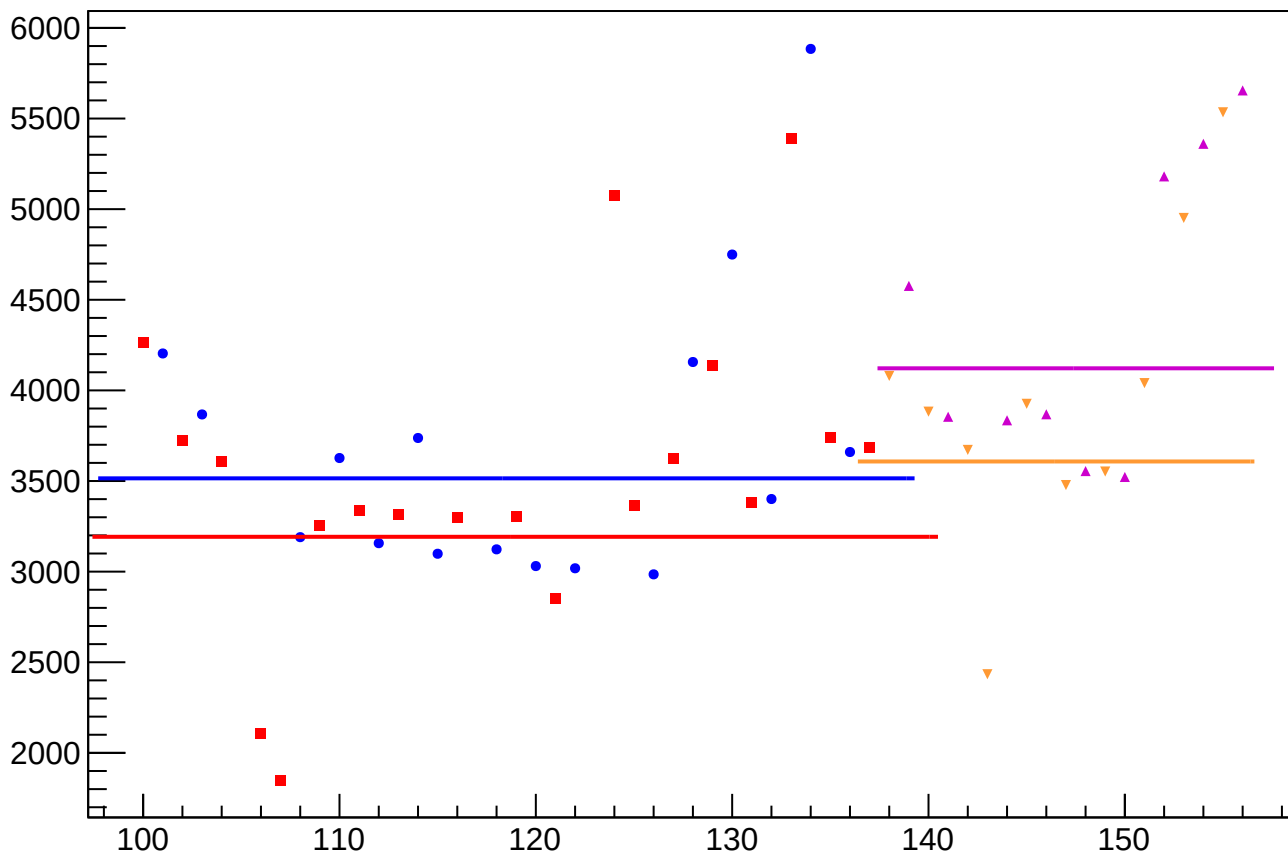
Right: 408.965+/-890.176 χ^2/NDF : 31.2/34

In: 228.187+/-993.156 χ^2/NDF : 18.8/24

Out: -780.923+/-890.009 χ^2/NDF : 26.3/28

All: -331.475+/-662.808 χ^2/NDF : 45.7/53

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: 3607.808 $\pm$ 0.938 χ^2 /NDF: 760158.3/9

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4121.849 $\pm$ 1.058 χ^2 /NDF: 422854.0/8

Left: 3833.983 $\pm$ 0.702 χ^2 /NDF: 1315090.8/18

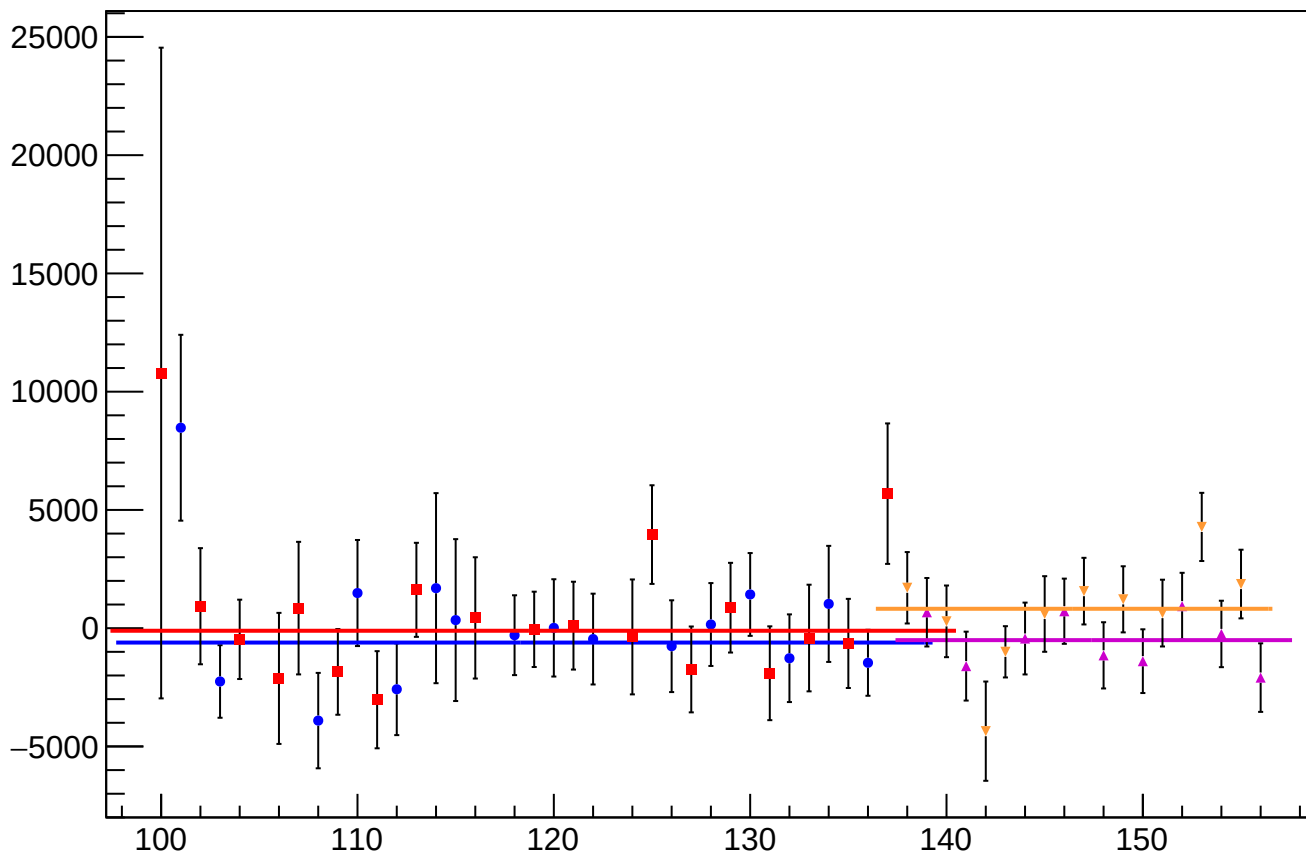
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3781.993 $\pm$ 0.702 χ^2 /NDF: 982095.8/24

Out: 3379.198 $\pm$ 0.629 χ^2 /NDF: 1640589.9/28

All: 3558.599 $\pm$ 0.469 χ^2 /NDF: 2805138.5/53

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: 820.470+/-455.608 χ^2/NDF :16.0/9

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -505.191+/-473.787 χ^2/NDF :4.9/8

Left: 183.559+/-328.402 χ^2/NDF : 25.1/18

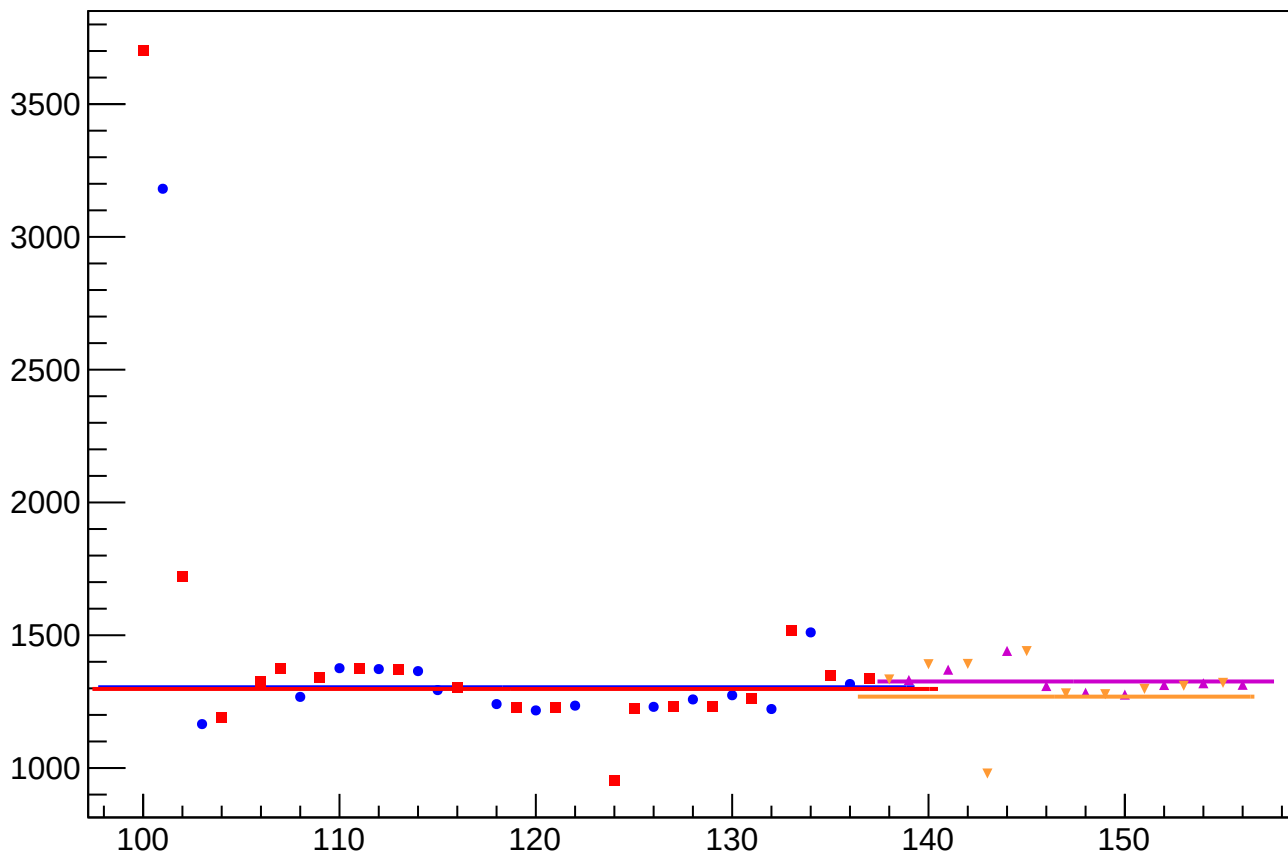
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -554.351+/-342.001 χ^2/NDF :19.1/24

Out: 385.456+/-332.245 χ^2/NDF :32.9/28

All: -70.853+/-238.307 χ^2/NDF : 55.8/53

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.6/15

Left Out: 1268.817 $\pm$ 0.322 χ^2 /NDF: 194522.0/9

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213097.0/18

Left In: 1325.913 $\pm$ 0.335 χ^2 /NDF: 18549.4/8

Left: 1296.249 $\pm$ 0.232 χ^2 /NDF: 228162.0/18

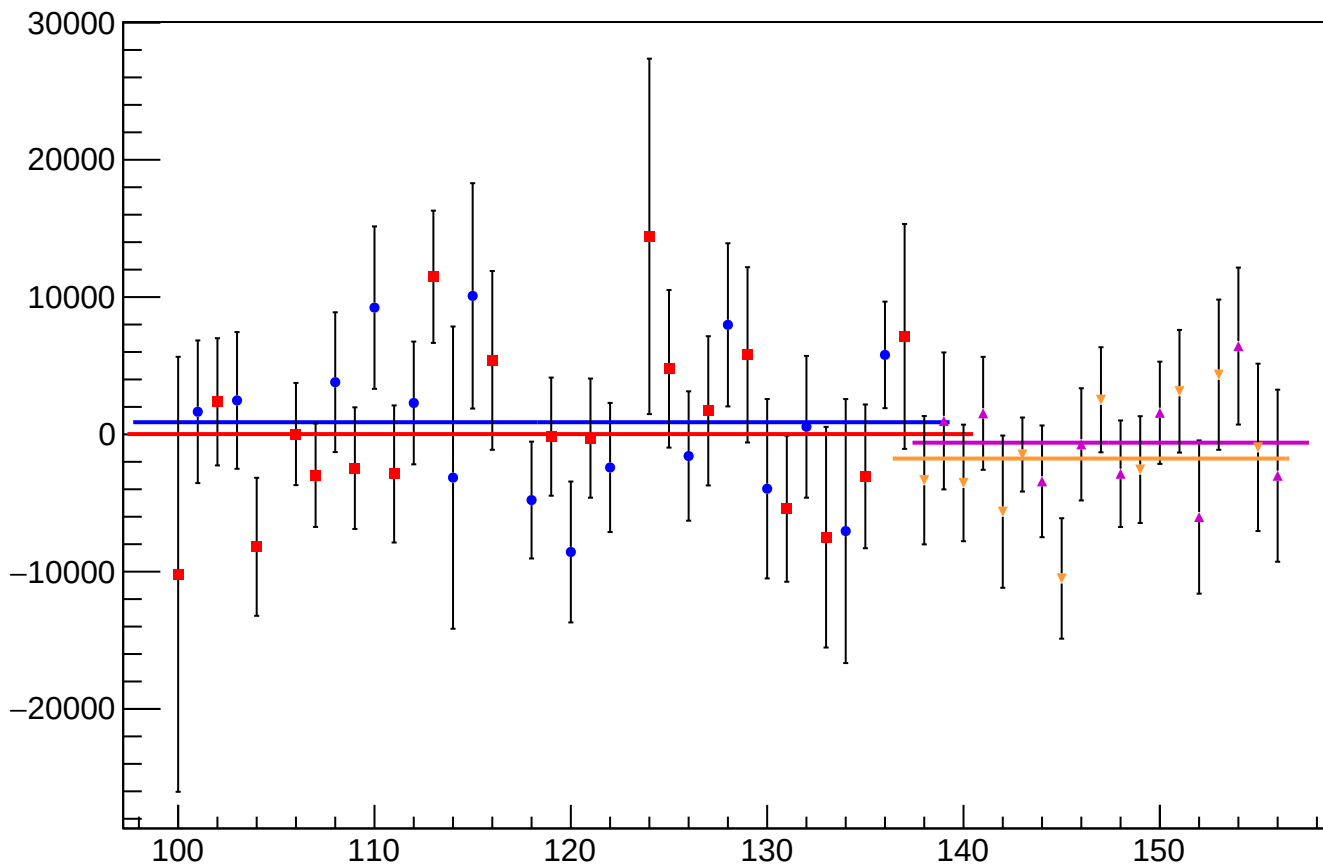
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.4/34

In: 1315.467 $\pm$ 0.242 χ^2 /NDF: 531168.9/24

Out: 1282.396 $\pm$ 0.235 χ^2 /NDF: 411410.5/28

All: 1298.447 $\pm$ 0.168 χ^2 /NDF: 952203.7/53

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: -1760.923 ± 1326.846 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 20.677 ± 1200.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: -605.875 ± 1496.899 $\chi^2/\text{NDF}: 4.1/8$

Left: -1252.707 ± 992.925 $\chi^2/\text{NDF}: 13.0/18$

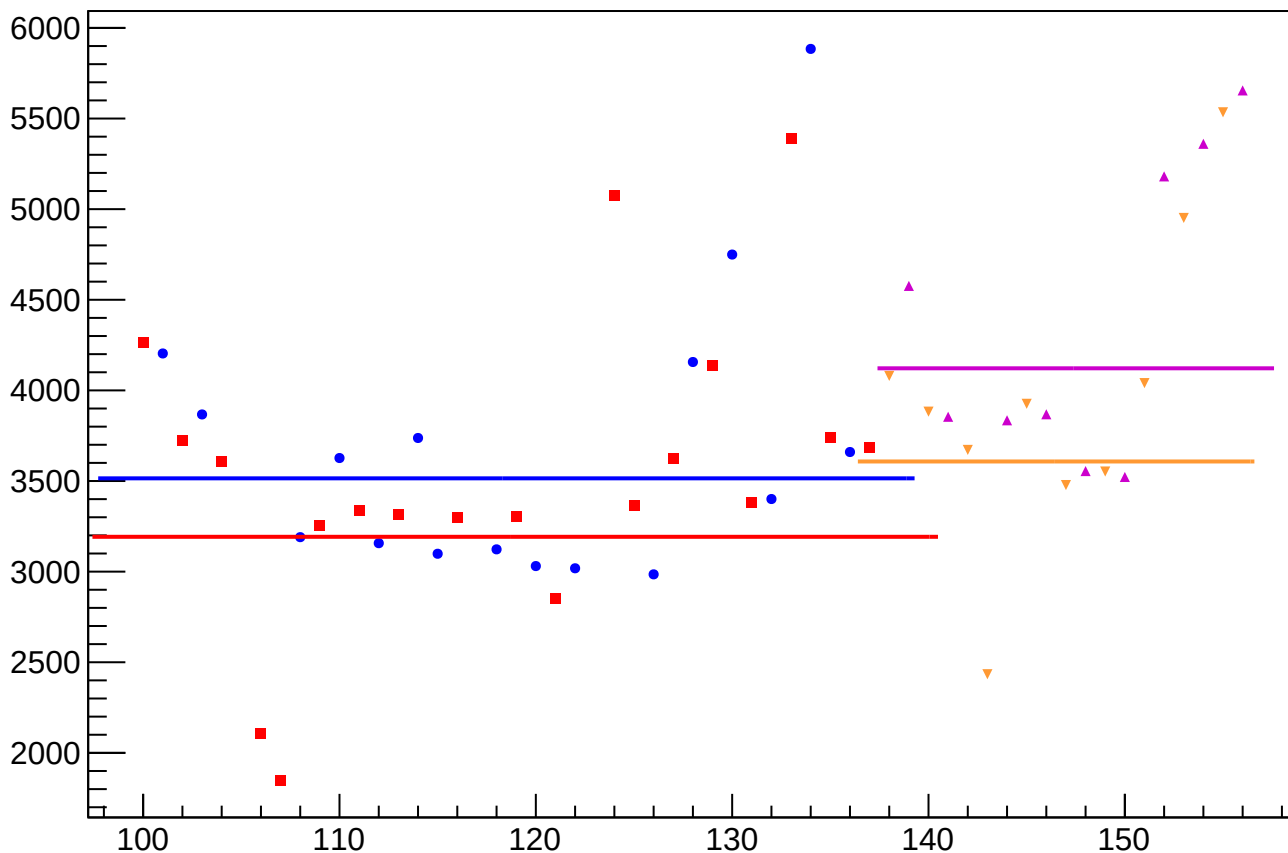
Right: 408.958 ± 890.174 $\chi^2/\text{NDF}: 31.2/34$

In: 228.185 ± 993.155 $\chi^2/\text{NDF}: 18.8/24$

Out: -780.921 ± 890.008 $\chi^2/\text{NDF}: 26.3/28$

All: -331.475 ± 662.808 $\chi^2/\text{NDF}: 45.7/53$

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737 ± 0.939 $\chi^2/\text{NDF}: 375082.8/15$

Left Out: 3607.813 ± 0.938 $\chi^2/\text{NDF}: 760158.4/9$

Right Out: 3192.196 ± 0.849 $\chi^2/\text{NDF}: 772497.9/18$

Left In: 4121.854 ± 1.058 $\chi^2/\text{NDF}: 422854.5/8$

Left: 3833.988 ± 0.702 $\chi^2/\text{NDF}: 1315091.3/18$

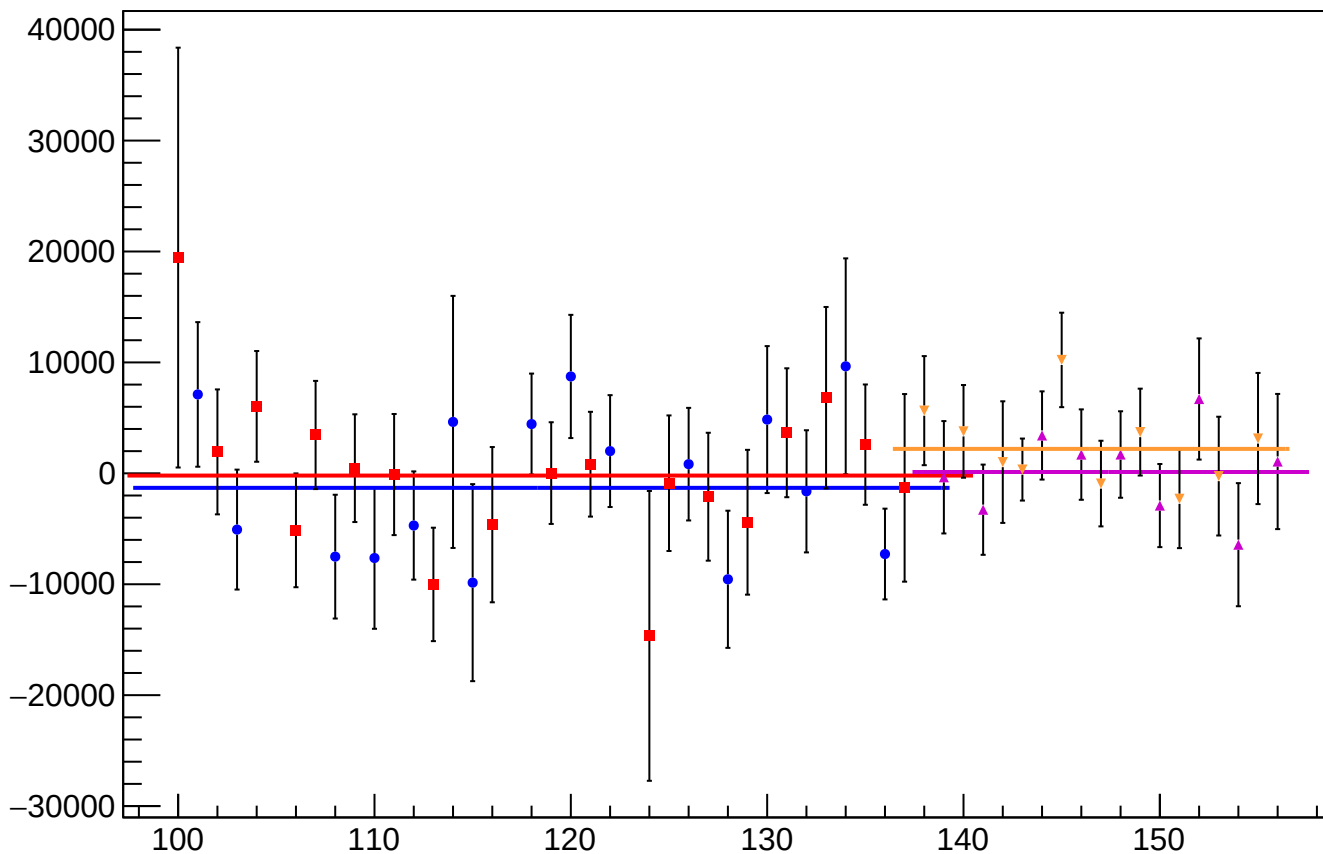
Right: 3337.251 ± 0.629 $\chi^2/\text{NDF}: 1212560.4/34$

In: 3781.989 ± 0.702 $\chi^2/\text{NDF}: 982109.3/24$

Out: 3379.195 ± 0.629 $\chi^2/\text{NDF}: 1640599.0/28$

All: 3558.596 ± 0.469 $\chi^2/\text{NDF}: 2805160.3/53$

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: 2203.166+/-1334.679 χ^2/NDF : 6.7/9

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: 120.099+/-1486.086 χ^2/NDF : 5.2/8

Left: 1273.122+/-992.988 χ^2/NDF : 13.1/18

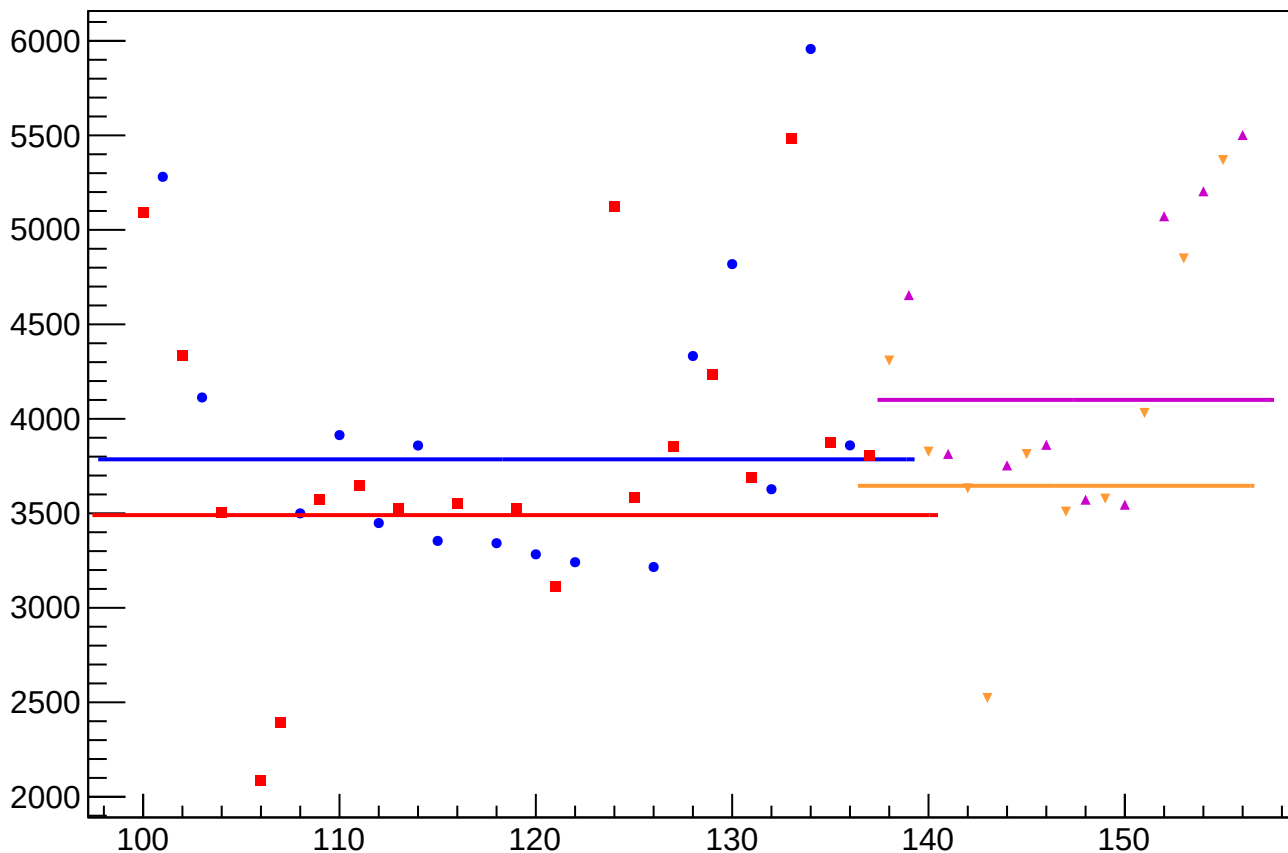
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -621.298+/-1031.027 χ^2/NDF : 23.3/24

Out: 1002.032+/-944.249 χ^2/NDF : 20.0/28

All: 261.546+/-696.346 χ^2/NDF : 44.6/53

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: 3645.649+/-0.944 χ^2/NDF : 654864.0/9

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4100.386+/-1.051 χ^2/NDF : 384587.9/8

Left: 3848.679+/-0.702 χ^2/NDF : 1143108.7/18

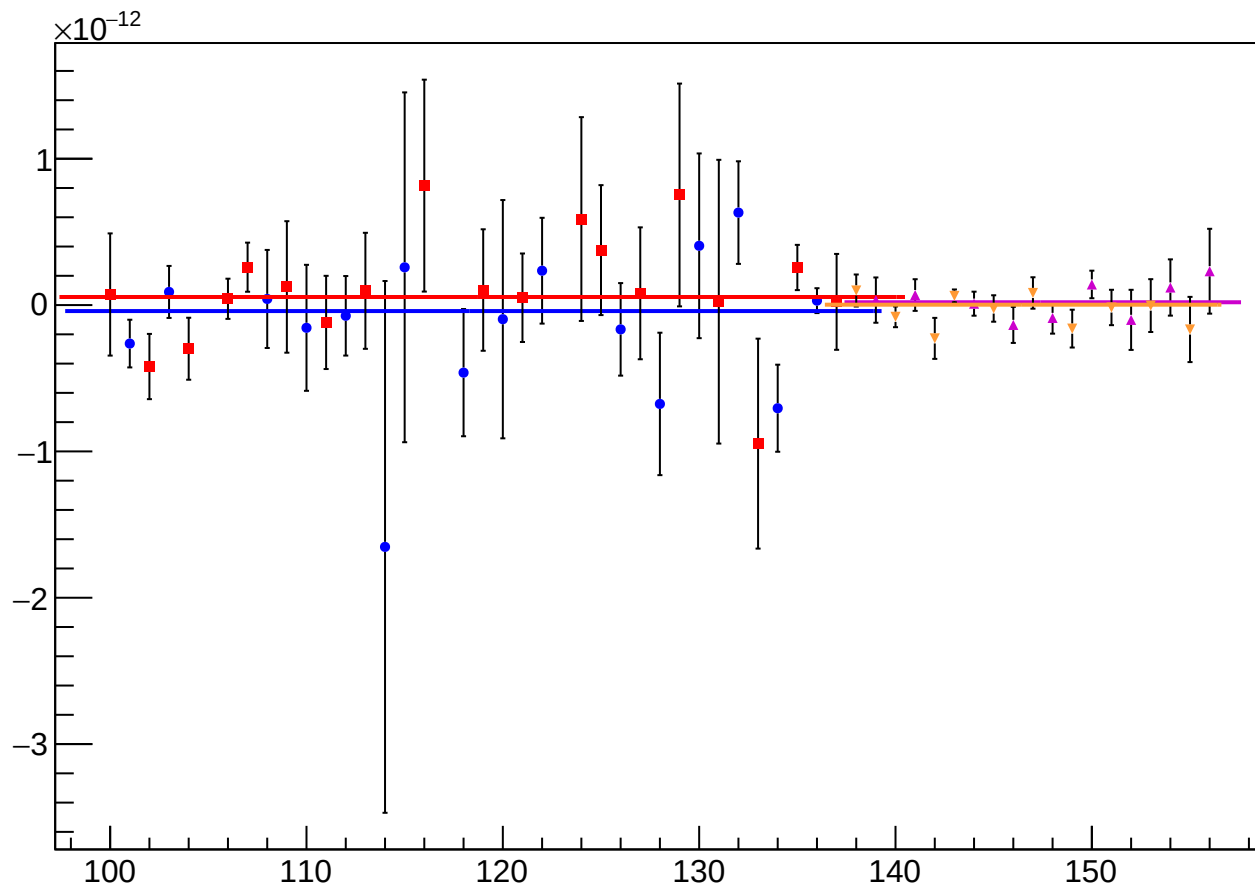
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3937.208+/-0.729 χ^2/NDF : 814072.9/24

Out: 3567.147+/-0.663 χ^2/NDF : 1255243.3/28

All: 3734.686+/-0.491 χ^2/NDF : 2210322.8/53

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 :9.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF :5.6/8

Left: 0.000+/-0.000 χ^2/NDF : 15.3/18

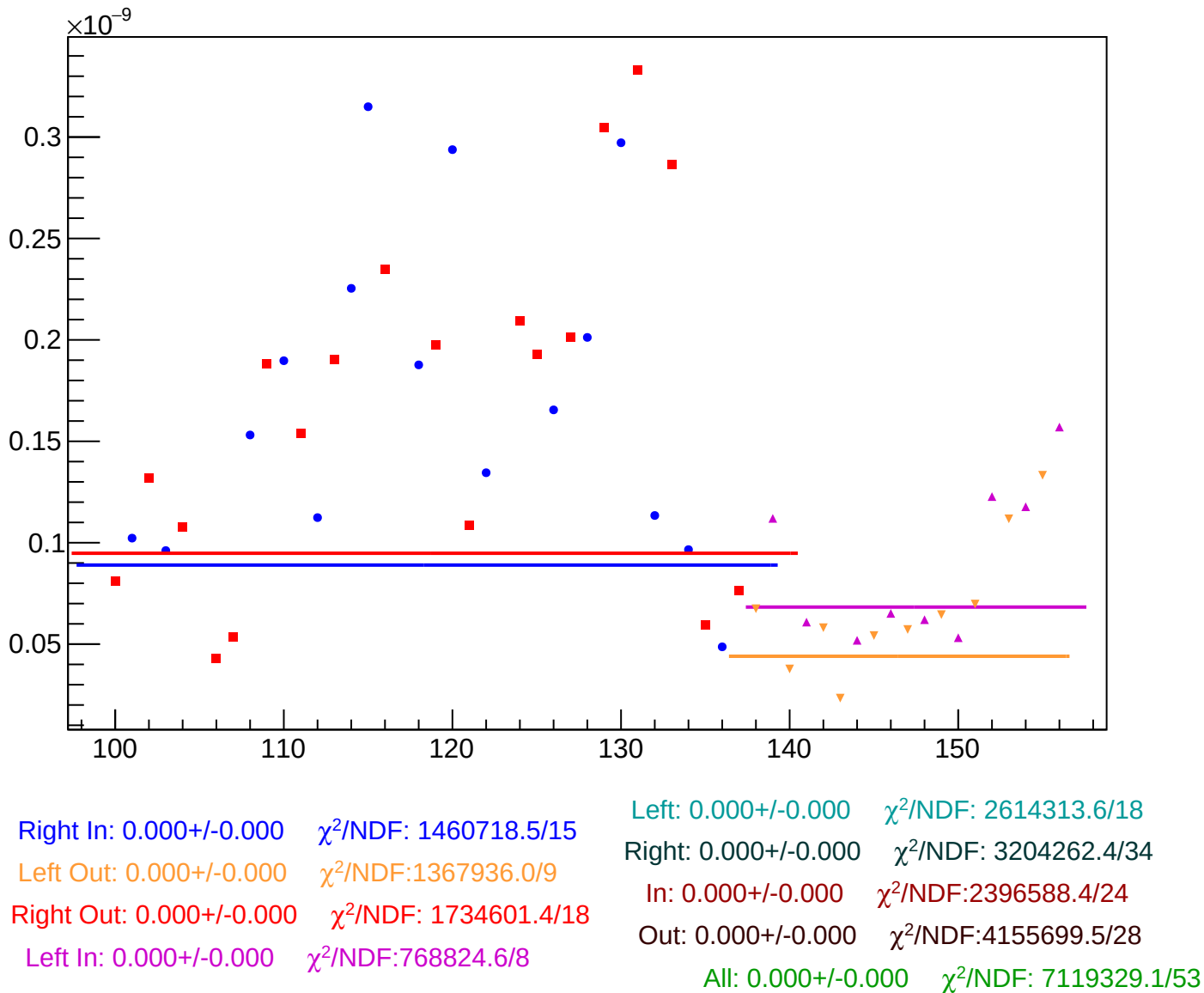
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF :23.0/24

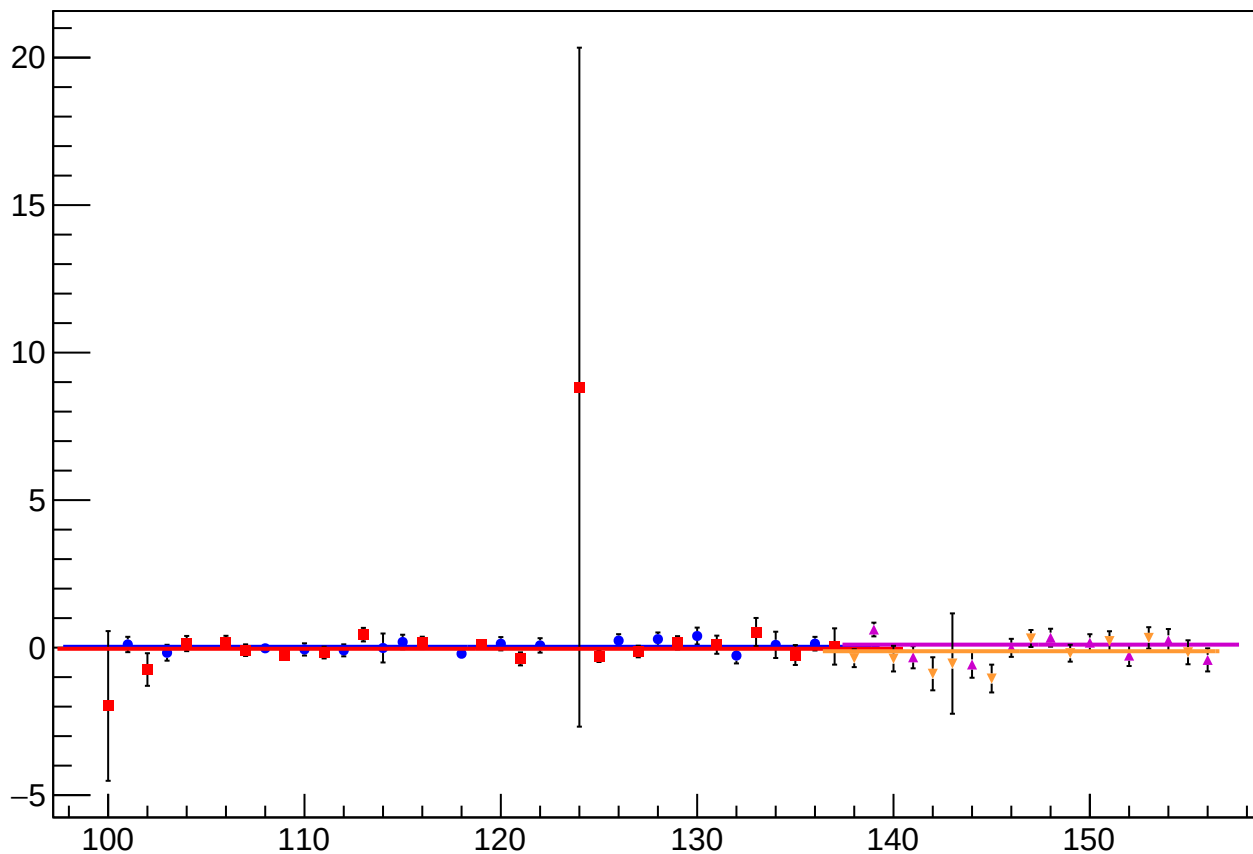
Out: 0.000+/-0.000 χ^2/NDF :26.0/28

All: 0.000+/-0.000 χ^2/NDF : 49.1/53

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: -0.122 ± 0.119 $\chi^2/\text{NDF}: 11.6/9$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.101 ± 0.108 $\chi^2/\text{NDF}: 12.1/8$

Left: -0.000 ± 0.080 $\chi^2/\text{NDF}: 25.7/18$

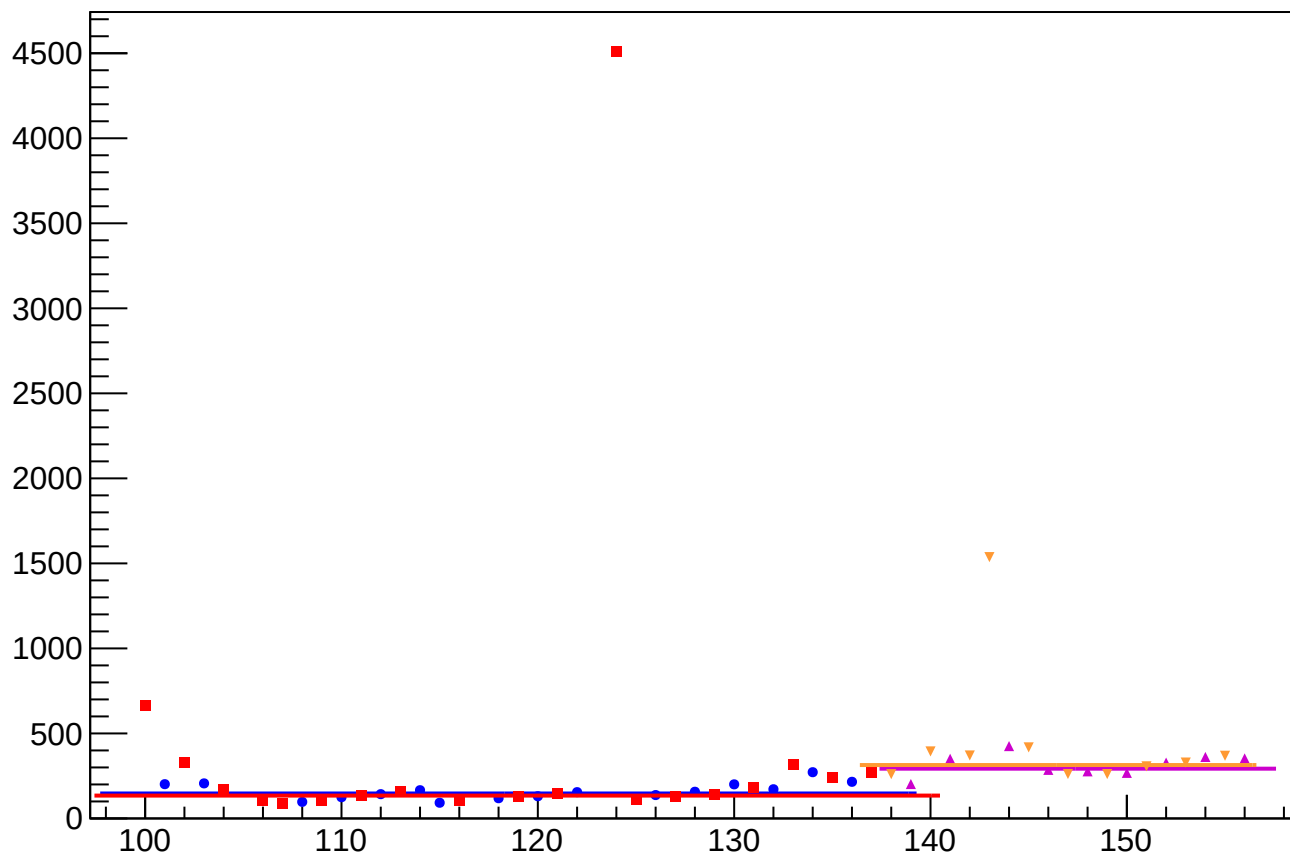
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.044 ± 0.051 $\chi^2/\text{NDF}: 22.0/24$

Out: -0.054 ± 0.050 $\chi^2/\text{NDF}: 32.0/28$

All: -0.006 ± 0.036 $\chi^2/\text{NDF}: 55.9/53$

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829 $\pm$ 0.041 χ^2 /NDF: 998704.7/15

Left Out: 314.096 $\pm$ 0.084 χ^2 /NDF: 1457813.7/9

Right Out: 134.505 $\pm$ 0.039 χ^2 /NDF: 1606383.2/18

Left In: 292.722 $\pm$ 0.076 χ^2 /NDF: 676176.2/8

Left: 302.413 $\pm$ 0.056 χ^2 /NDF: 2169500.3/18

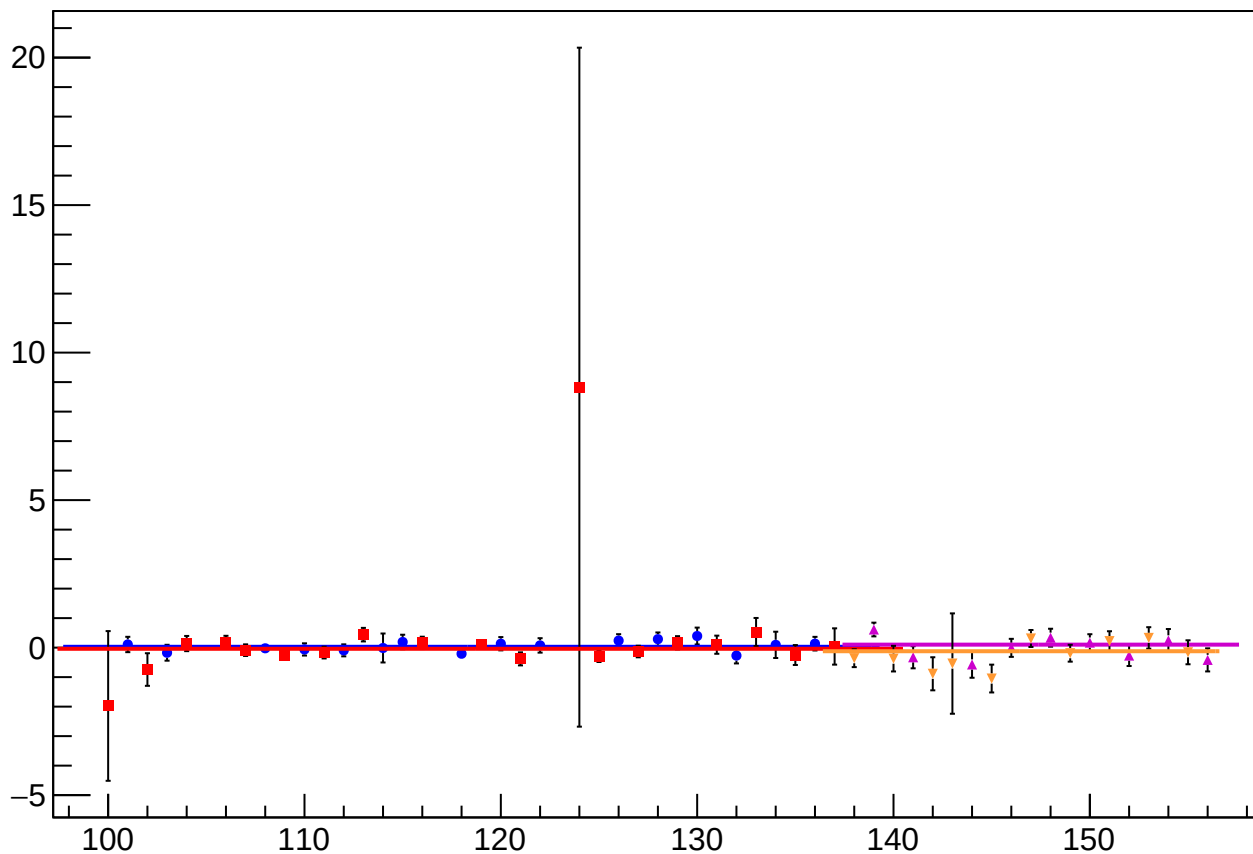
Right: 140.347 $\pm$ 0.028 χ^2 /NDF: 2653079.7/34

In: 179.223 $\pm$ 0.036 χ^2 /NDF: 4513737.9/24

Out: 166.085 $\pm$ 0.035 χ^2 /NDF: 6844354.8/28

All: 172.502 $\pm$ 0.025 χ^2 /NDF: 11426269.5/53

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 χ^2/NDF : 9.4/15

Left Out: -0.122 ± 0.119 χ^2/NDF : 11.6/9

Right Out: -0.039 ± 0.055 χ^2/NDF : 20.0/18

Left In: 0.101 ± 0.108 χ^2/NDF : 12.1/8

Left: -0.000 ± 0.080 χ^2/NDF : 25.7/18

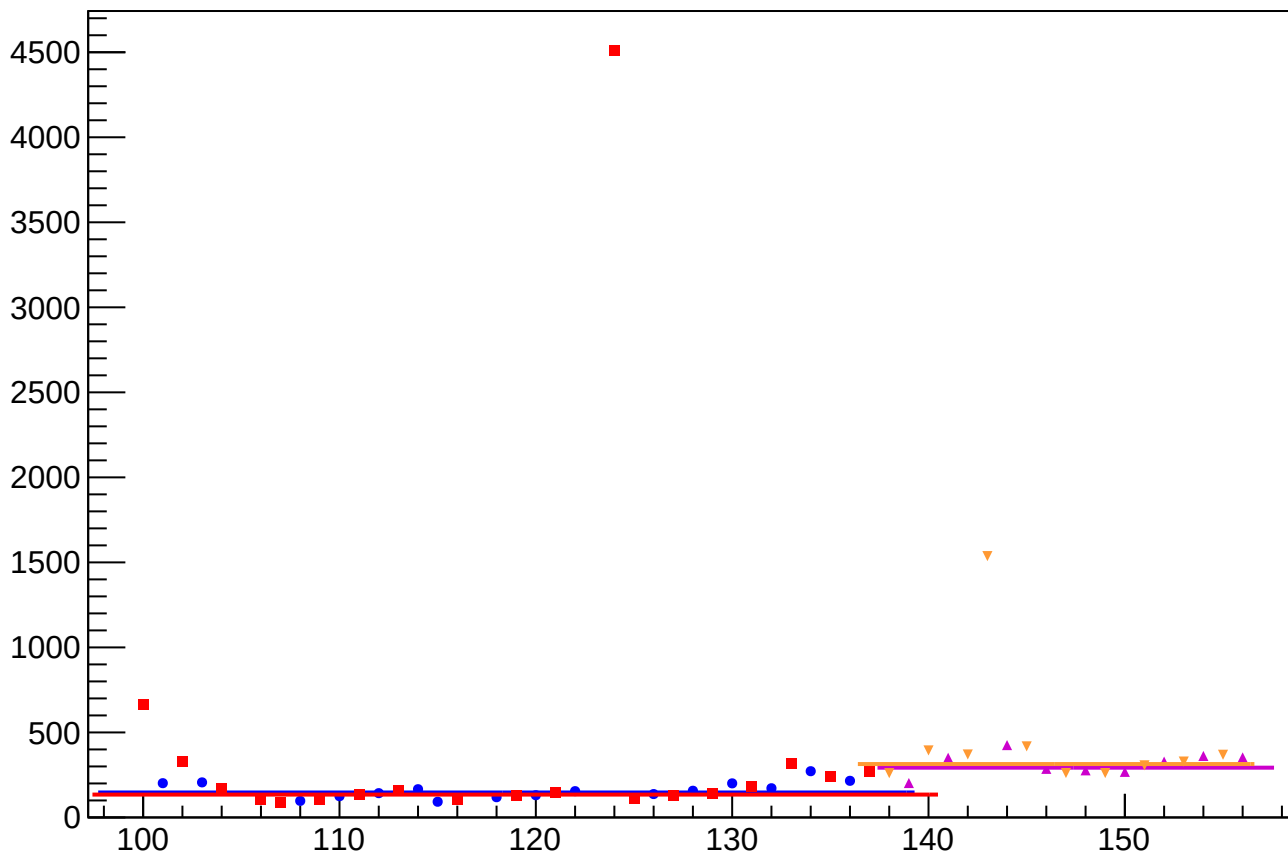
Right: -0.007 ± 0.040 χ^2/NDF : 30.2/34

In: 0.044 ± 0.051 χ^2/NDF : 22.0/24

Out: -0.054 ± 0.050 χ^2/NDF : 32.0/28

All: -0.006 ± 0.036 χ^2/NDF : 55.9/53

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: 314.096+/-0.084 χ^2/NDF : 1457813.7/9

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 292.722+/-0.076 χ^2/NDF : 676176.2/8

Left: 302.413+/-0.056 χ^2/NDF : 2169500.3/18

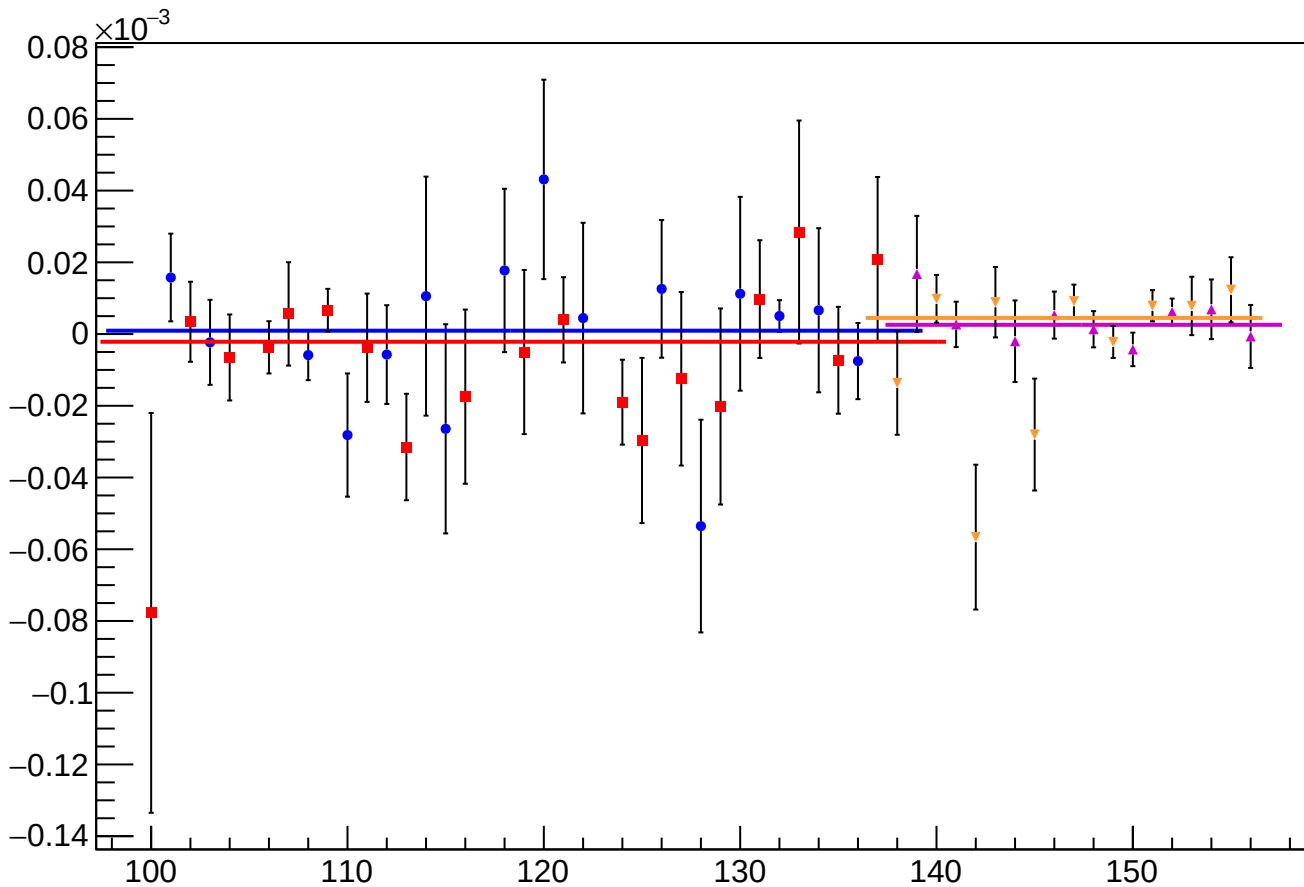
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 179.223+/-0.036 χ^2/NDF : 4513737.9/24

Out: 166.085+/-0.035 χ^2/NDF : 6844354.8/28

All: 172.502+/-0.025 χ^2/NDF : 11426269.5/53

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 : 20.7/9

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.6/8

Left: 0.000+/-0.000 χ^2/NDF : 25.8/18

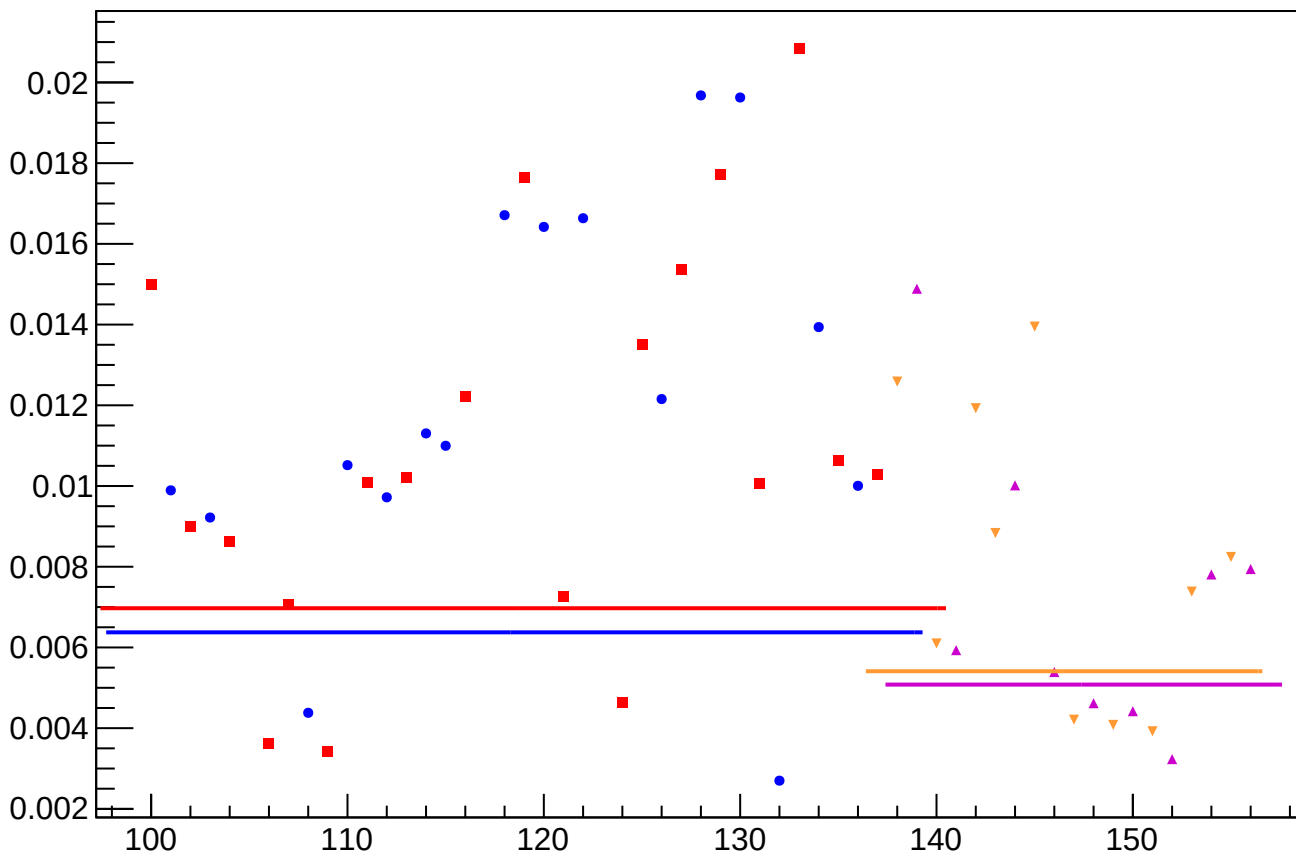
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF : 19.7/24

Out: 0.000+/-0.000 χ^2/NDF : 40.0/28

All: 0.000+/-0.000 χ^2/NDF : 59.7/53

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: 0.005+/-0.000 χ^2/NDF : 2422742.1/9

Right Out: 0.007+/-0.000 χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000 χ^2/NDF : 2124835.7/8

Left: 0.005+/-0.000 χ^2/NDF : 4572924.6/18

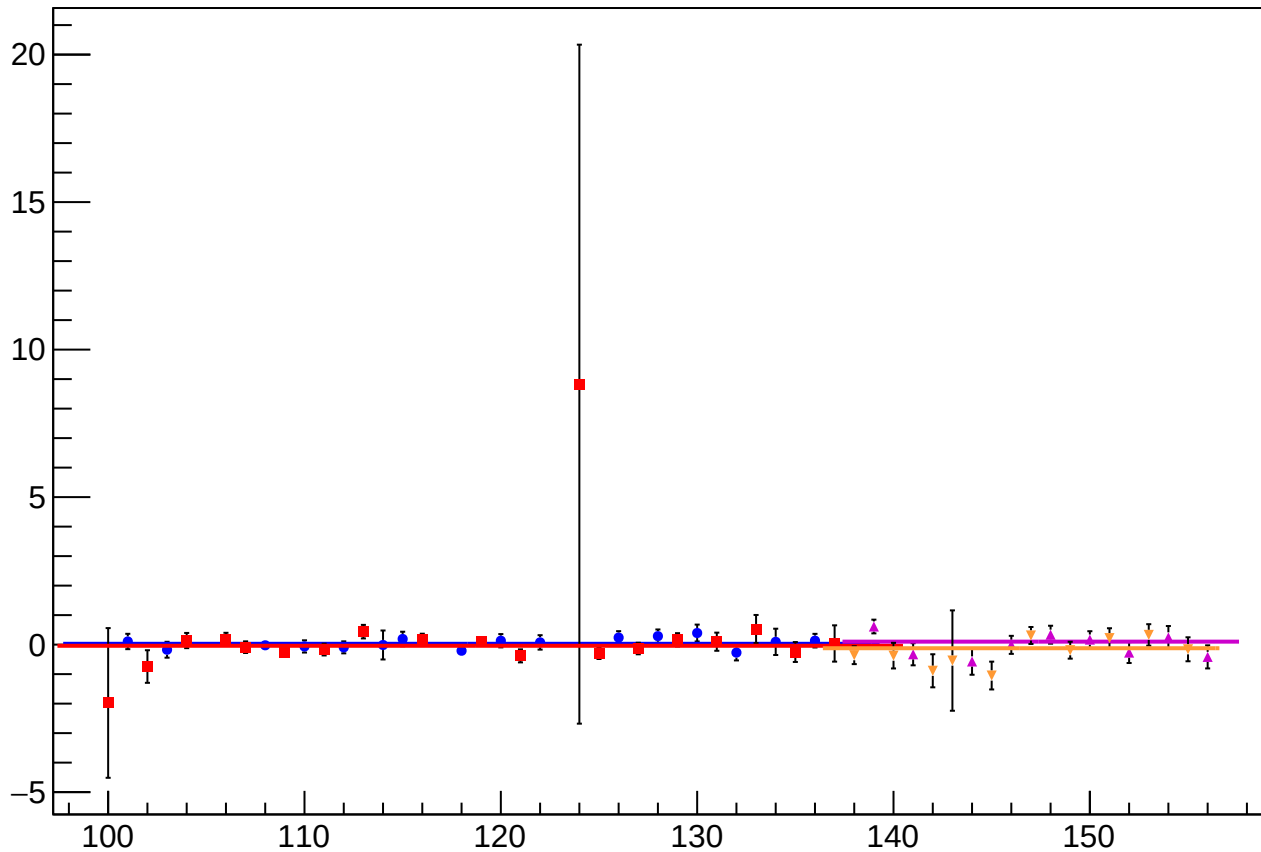
Right: 0.007+/-0.000 χ^2/NDF : 8090163.7/34

In: 0.005+/-0.000 χ^2/NDF : 7029294.8/24

Out: 0.006+/-0.000 χ^2/NDF : 6190932.1/28

All: 0.006+/-0.000 χ^2/NDF : 13284405.7/53

asym_at1_avg_at2_avg_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: -0.122 ± 0.119 χ^2/NDF : 11.6/9

Right Out: -0.039 ± 0.055 χ^2/NDF : 20.0/18

Left In: 0.101 ± 0.108 χ^2/NDF : 12.1/8

Left: -0.000 ± 0.080 χ^2/NDF : 25.7/18

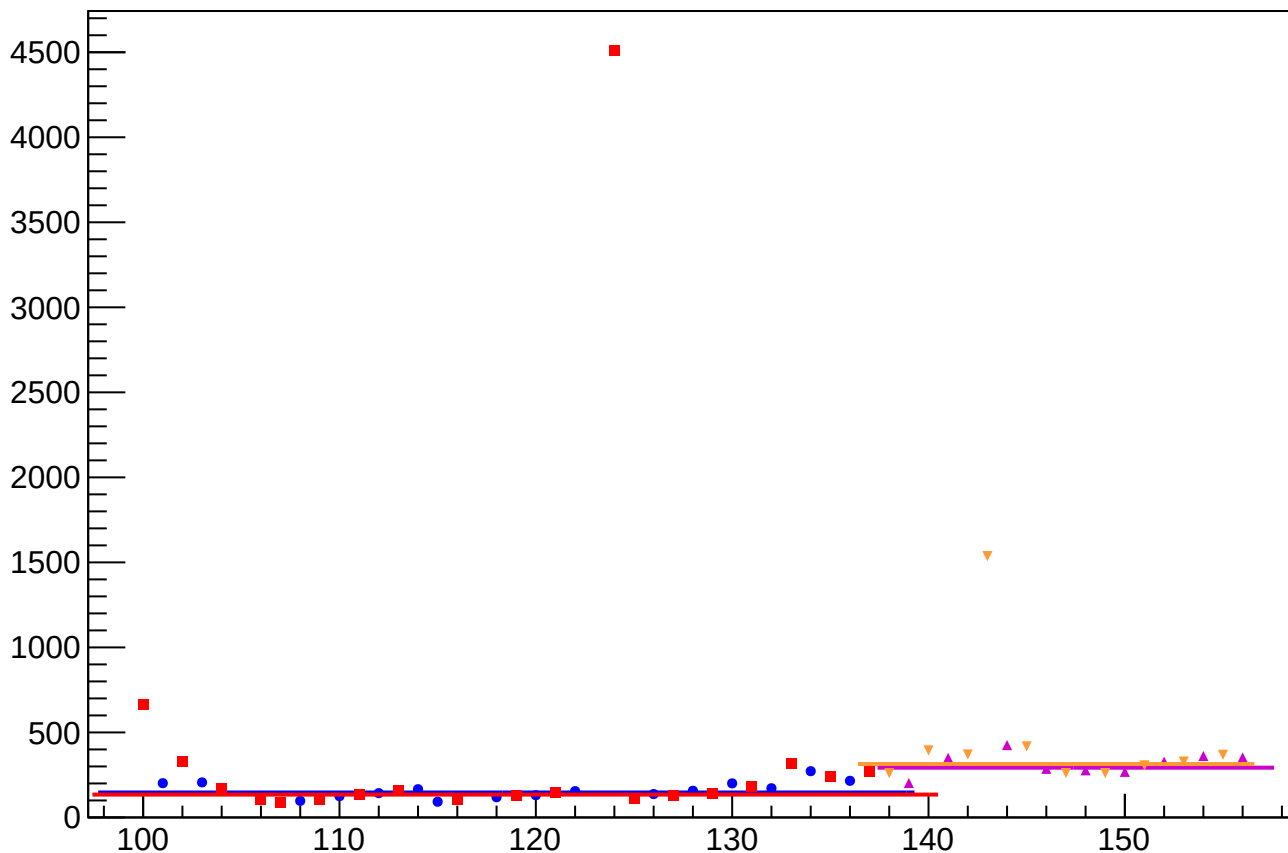
Right: -0.007 ± 0.040 χ^2/NDF : 30.2/34

In: 0.044 ± 0.051 χ^2/NDF : 22.0/24

Out: -0.054 ± 0.050 χ^2/NDF : 32.0/28

All: -0.006 ± 0.036 χ^2/NDF : 55.9/53

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829 $\pm$ 0.041 χ^2 /NDF: 998646.8/15

Left Out: 314.099 $\pm$ 0.084 χ^2 /NDF: 1457814.6/9

Right Out: 134.506 $\pm$ 0.039 χ^2 /NDF: 1606310.4/18

Left In: 292.726 $\pm$ 0.076 χ^2 /NDF: 676155.9/8

Left: 302.417 $\pm$ 0.056 χ^2 /NDF: 2169478.0/18

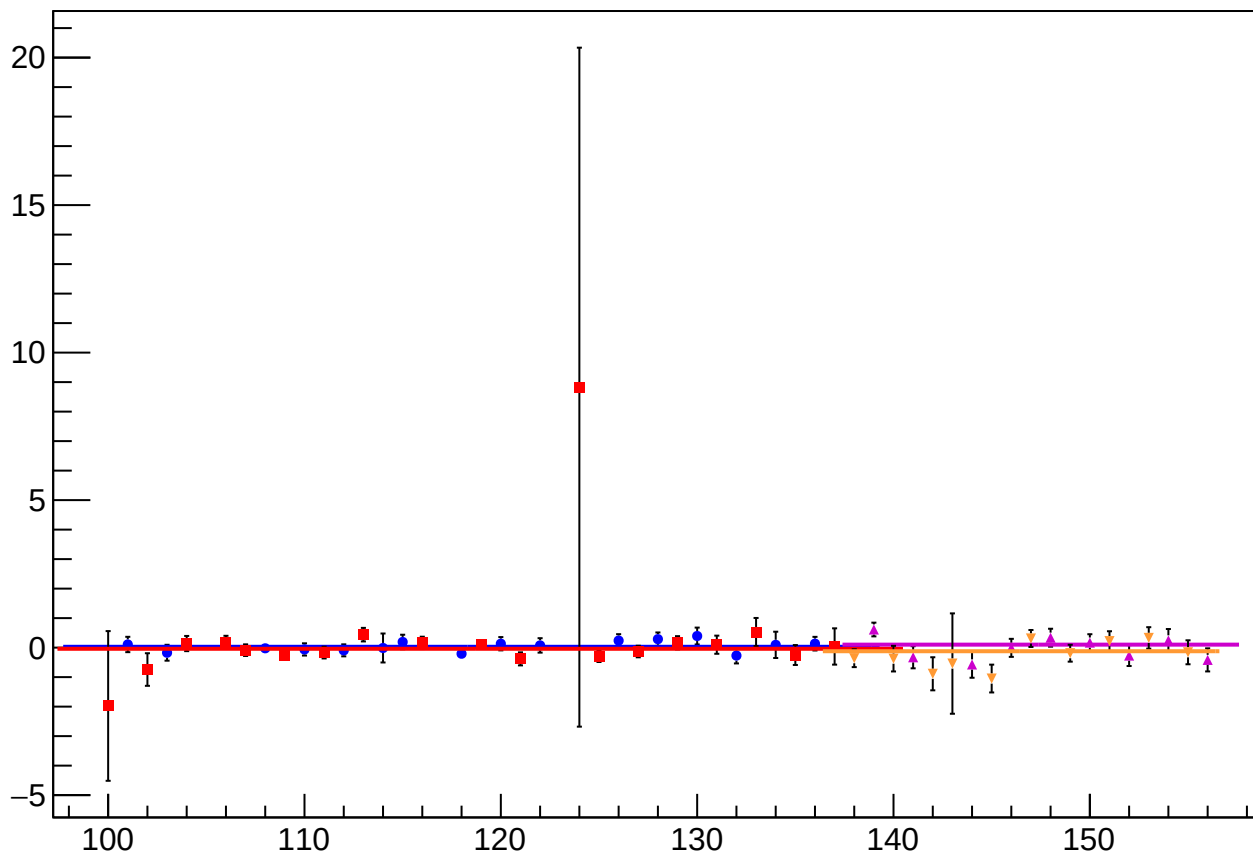
Right: 140.348 $\pm$ 0.028 χ^2 /NDF: 2652938.4/34

In: 179.223 $\pm$ 0.036 χ^2 /NDF: 4513761.5/24

Out: 166.087 $\pm$ 0.035 χ^2 /NDF: 6844296.6/28

All: 172.503 $\pm$ 0.025 χ^2 /NDF: 11426220.3/53

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 χ^2/NDF : 9.4/15

Left Out: -0.122 ± 0.119 χ^2/NDF : 11.6/9

Right Out: -0.039 ± 0.055 χ^2/NDF : 20.0/18

Left In: 0.101 ± 0.108 χ^2/NDF : 12.1/8

Left: -0.000 ± 0.080 χ^2/NDF : 25.7/18

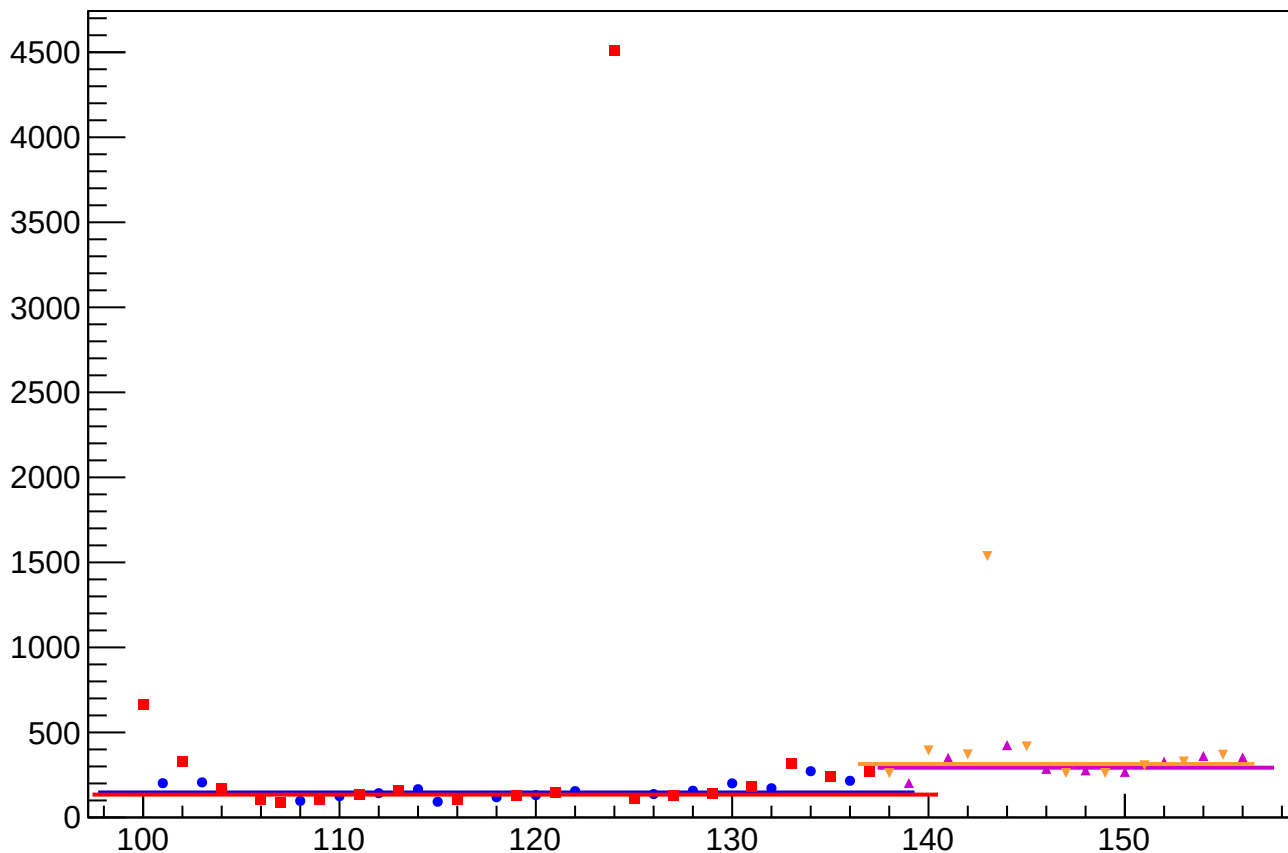
Right: -0.007 ± 0.040 χ^2/NDF : 30.2/34

In: 0.044 ± 0.051 χ^2/NDF : 22.0/24

Out: -0.054 ± 0.050 χ^2/NDF : 32.0/28

All: -0.006 ± 0.036 χ^2/NDF : 55.9/53

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: 314.099 $\pm$ 0.084 χ^2 /NDF: 1457814.6/9

Right Out: 134.506 $\pm$ 0.039 χ^2 /NDF: 1606310.4/18

Left In: 292.726 $\pm$ 0.076 χ^2 /NDF: 676155.9/8

Left: 302.417 $\pm$ 0.056 χ^2 /NDF: 2169478.0/18

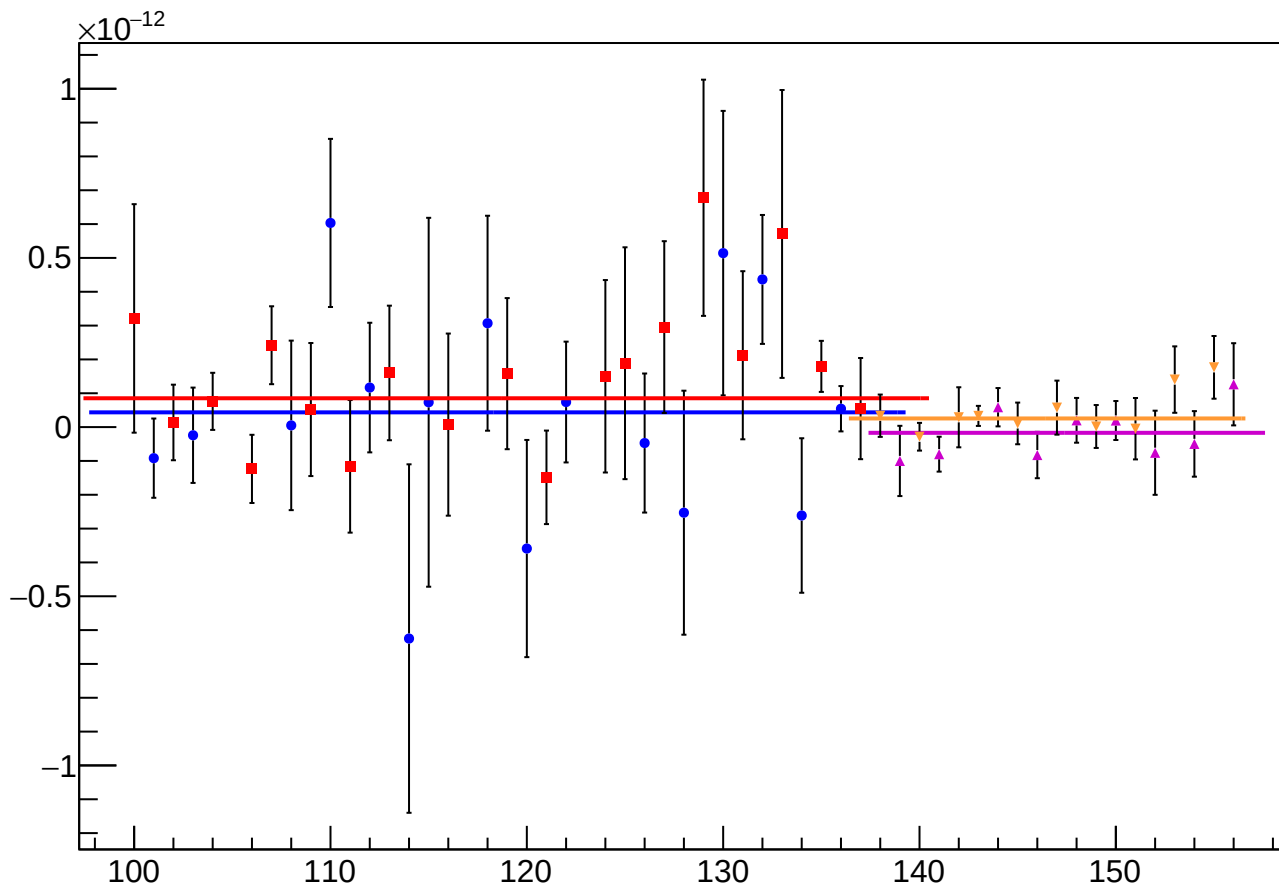
Right: 140.348 $\pm$ 0.028 χ^2 /NDF: 2652938.4/34

In: 179.223 $\pm$ 0.036 χ^2 /NDF: 4513761.5/24

Out: 166.087 $\pm$ 0.035 χ^2 /NDF: 6844296.6/28

All: 172.503 $\pm$ 0.025 χ^2 /NDF: 11426220.3/53

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 : 6.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 7.3/8

Left: 0.000+/-0.000 χ^2/NDF : 15.6/18

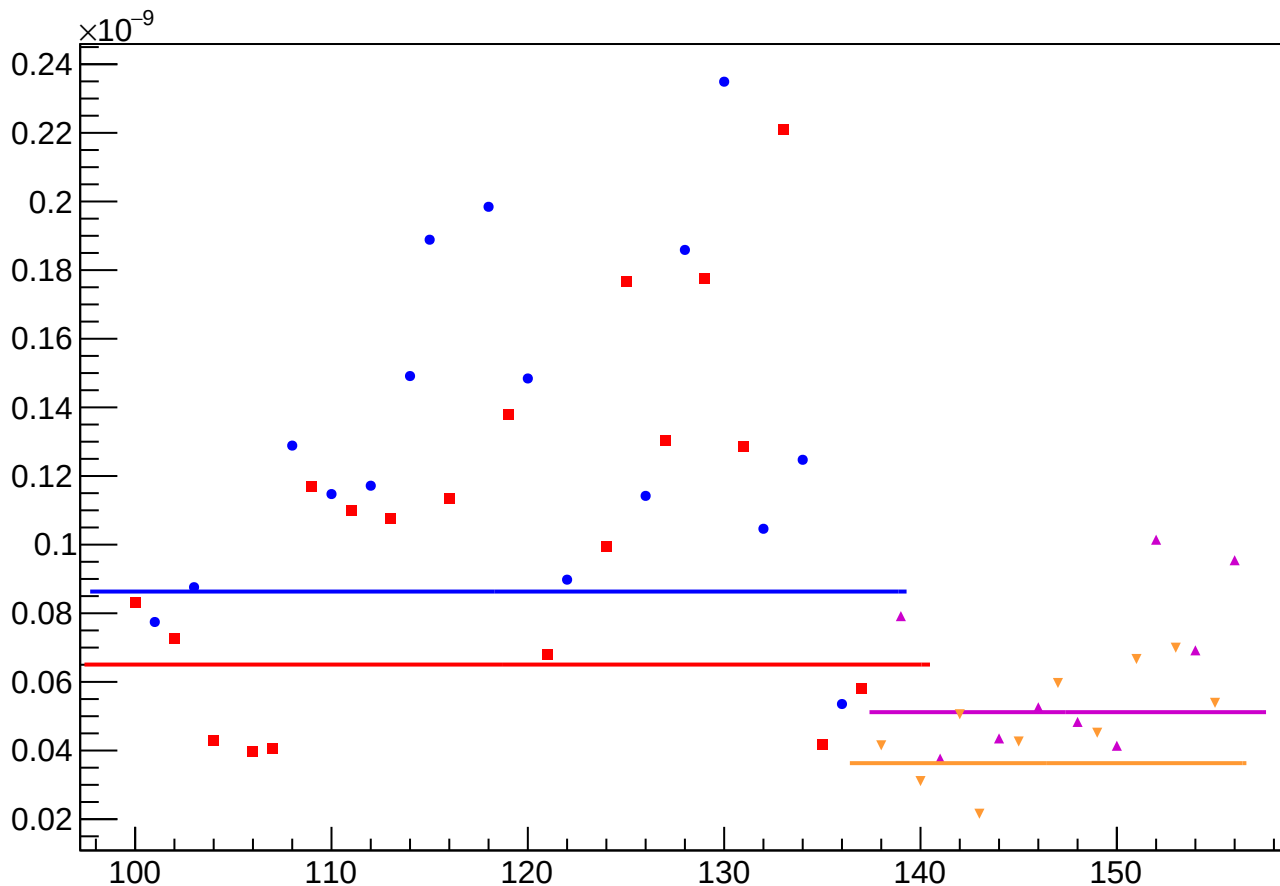
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: -0.000+/-0.000 χ^2/NDF : 27.8/24

Out: 0.000+/-0.000 χ^2/NDF : 26.9/28

All: 0.000+/-0.000 χ^2/NDF : 57.2/53

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 :1354172.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1043638.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2895747.6/18

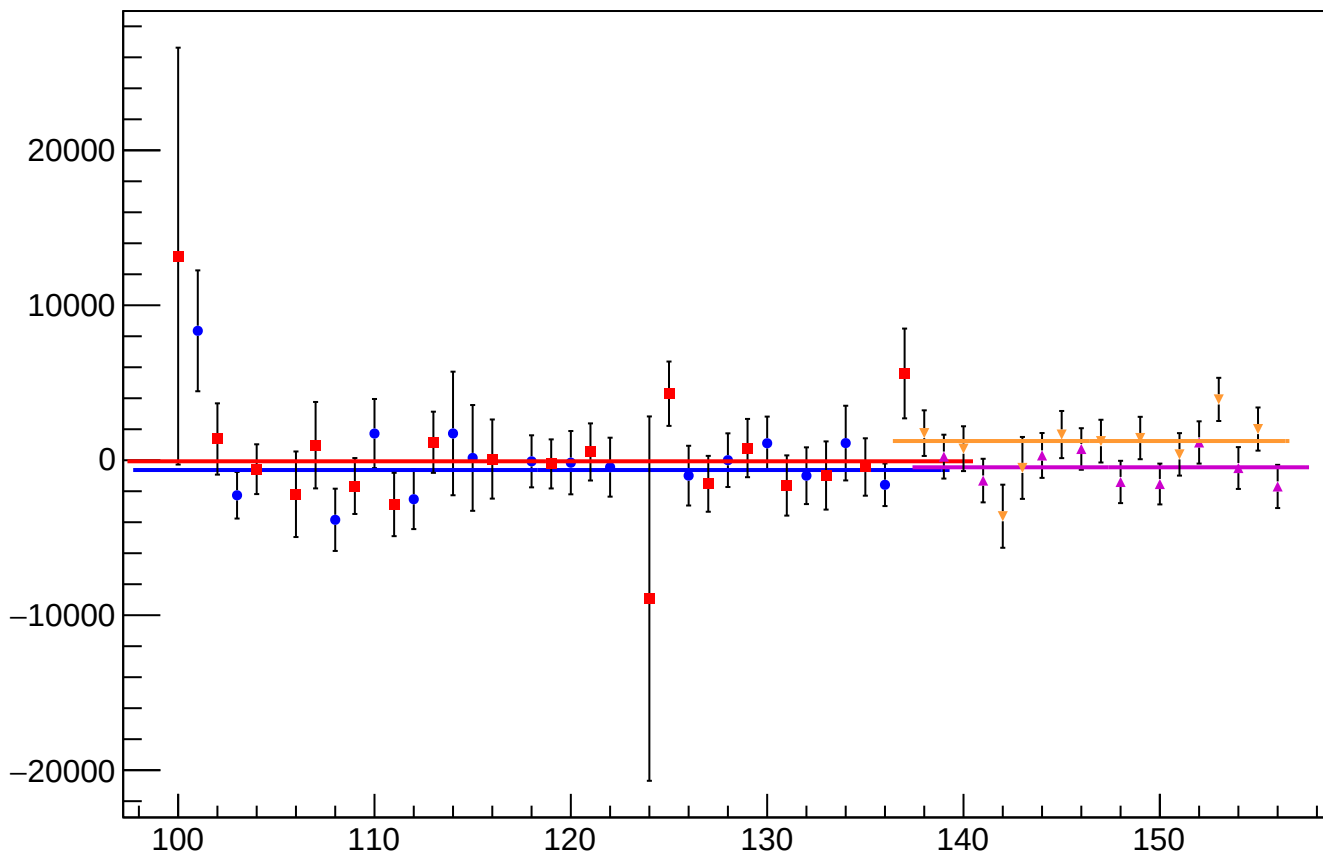
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF :3641414.7/24

Out: 0.000+/-0.000 χ^2/NDF :4620015.8/28

All: 0.000+/-0.000 χ^2/NDF : 9109676.7/53

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: 1239.494 ± 472.044 χ^2/NDF : 11.2/9

Right Out: -67.642 ± 487.761 χ^2/NDF : 15.9/18

Left In: -454.527 ± 458.666 χ^2/NDF : 5.0/8

Left: 368.137 ± 328.954 χ^2/NDF : 22.8/18

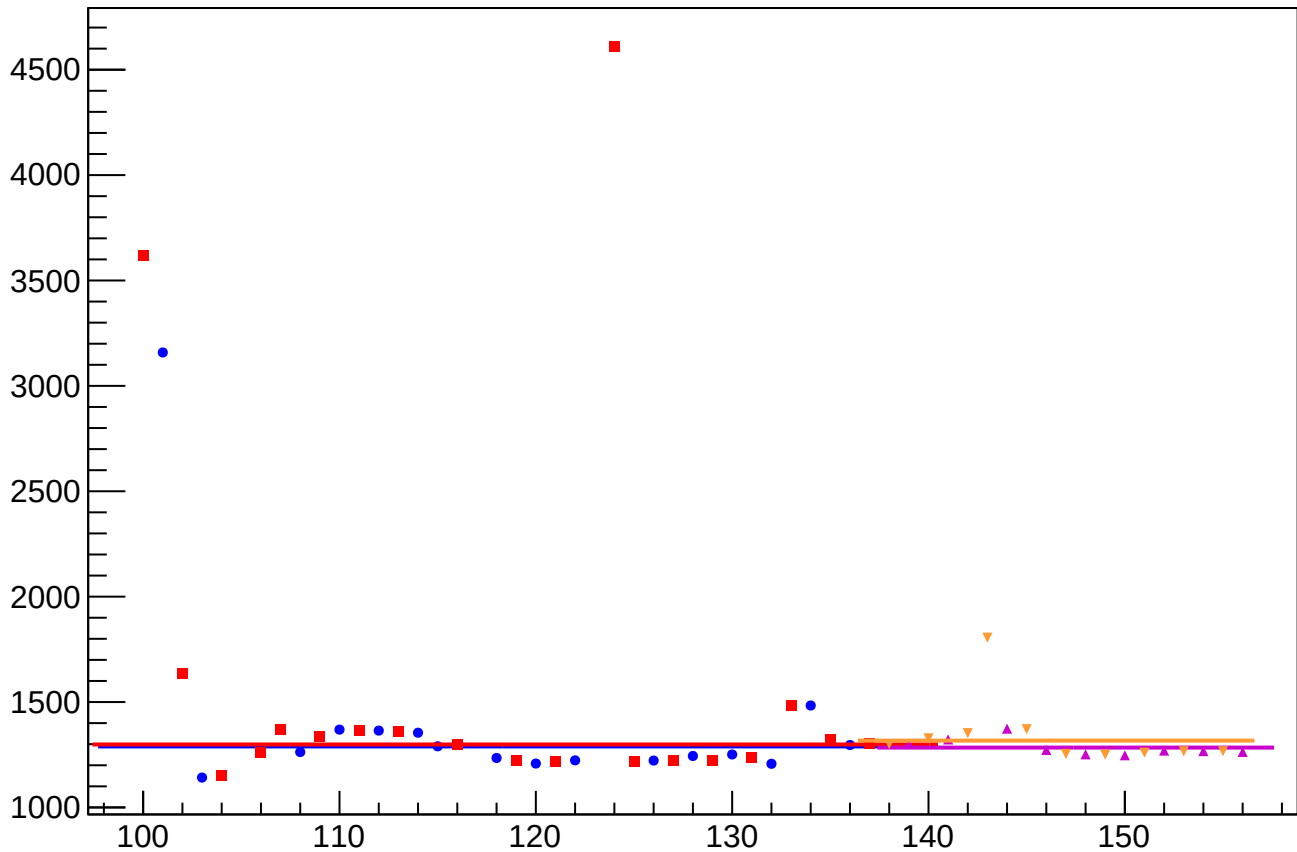
Right: -348.821 ± 345.217 χ^2/NDF : 30.4/34

In: -537.200 ± 334.428 χ^2/NDF : 19.0/24

Out: 607.324 ± 339.206 χ^2/NDF : 30.8/28

All: 26.944 ± 238.147 χ^2/NDF : 55.5/53

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: 1317.078+/-0.334 χ^2/NDF : 140622.0/9

Right Out: 1298.656+/-0.344 χ^2/NDF : 319374.9/18

Left In: 1283.902+/-0.324 χ^2/NDF : 13252.2/8

Left: 1300.013+/-0.233 χ^2/NDF : 158955.5/18

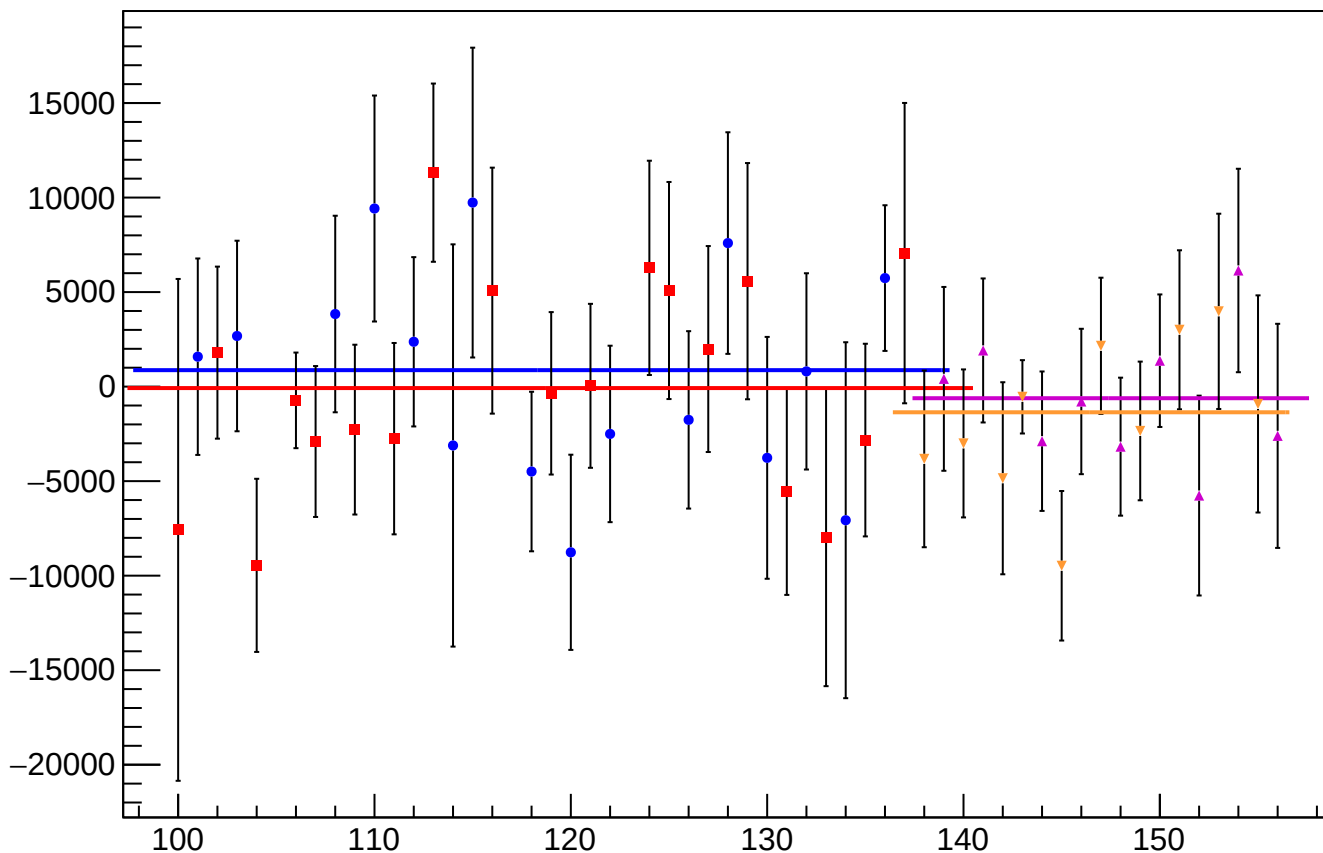
Right: 1294.081+/-0.244 χ^2/NDF : 834405.1/34

In: 1286.508+/-0.236 χ^2/NDF : 528065.1/24

Out: 1308.144+/-0.240 χ^2/NDF : 461474.0/28

All: 1297.186+/-0.168 χ^2/NDF : 993670.6/53

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 ± 1325.278 $\chi^2/\text{NDF}: 14.0/15$

Left Out: -1357.908 ± 1150.718 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -77.323 ± 1111.074 $\chi^2/\text{NDF}: 18.4/18$

Left In: -613.837 ± 1403.529 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.804 ± 889.868 $\chi^2/\text{NDF}: 13.0/18$

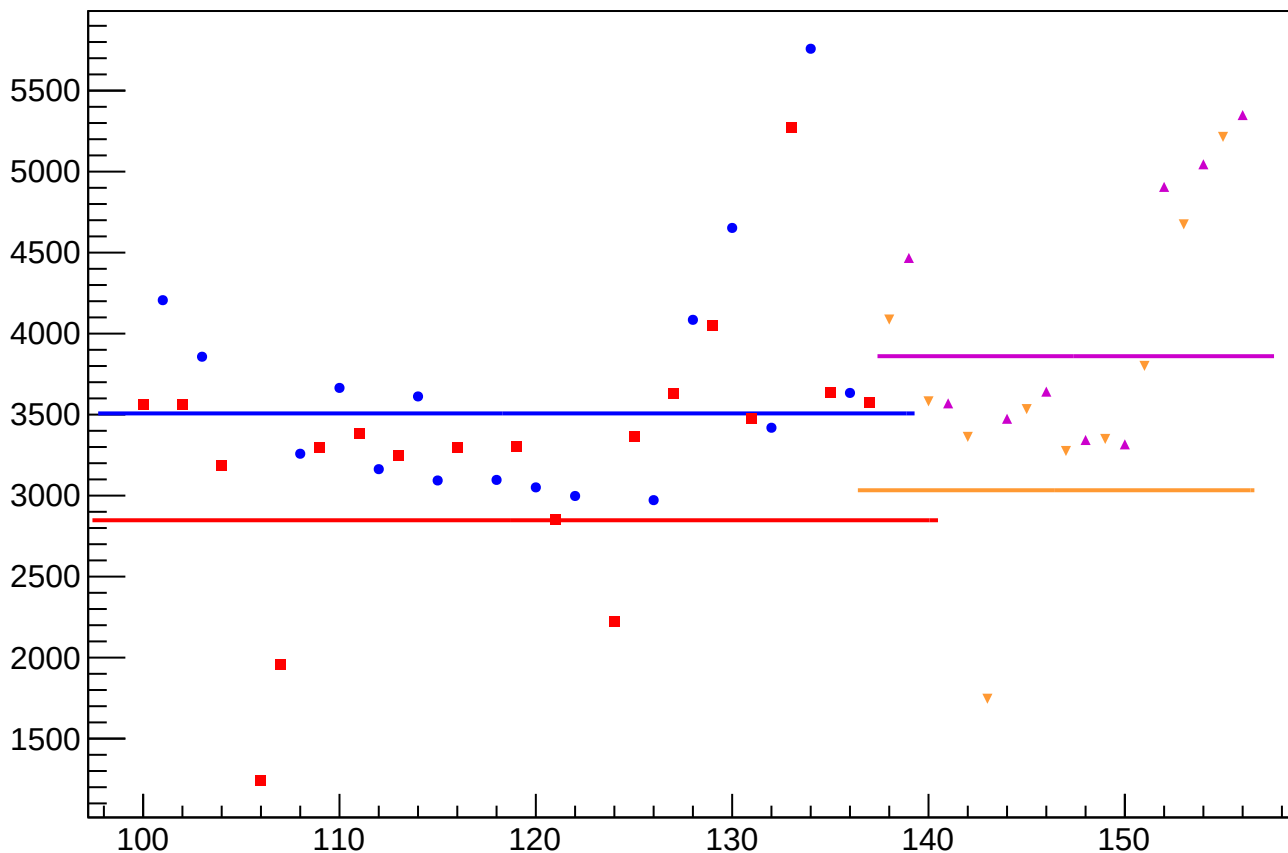
Right: 313.810 ± 851.438 $\chi^2/\text{NDF}: 32.7/34$

In: 170.753 ± 963.590 $\chi^2/\text{NDF}: 18.9/24$

Out: -695.177 ± 799.296 $\chi^2/\text{NDF}: 27.5/28$

All: -342.218 ± 615.195 $\chi^2/\text{NDF}: 46.9/53$

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397 $\pm$ 0.937 χ^2 /NDF: 353979.1/15

Left Out: 3033.033 $\pm$ 0.814 χ^2 /NDF:1643086.7/9

Right Out: 2847.833 $\pm$ 0.786 χ^2 /NDF: 1499373.6/18

Left In: 3860.635 $\pm$ 0.992 χ^2 /NDF:460841.9/8

Left: 3365.715 $\pm$ 0.629 χ^2 /NDF: 2519785.1/18

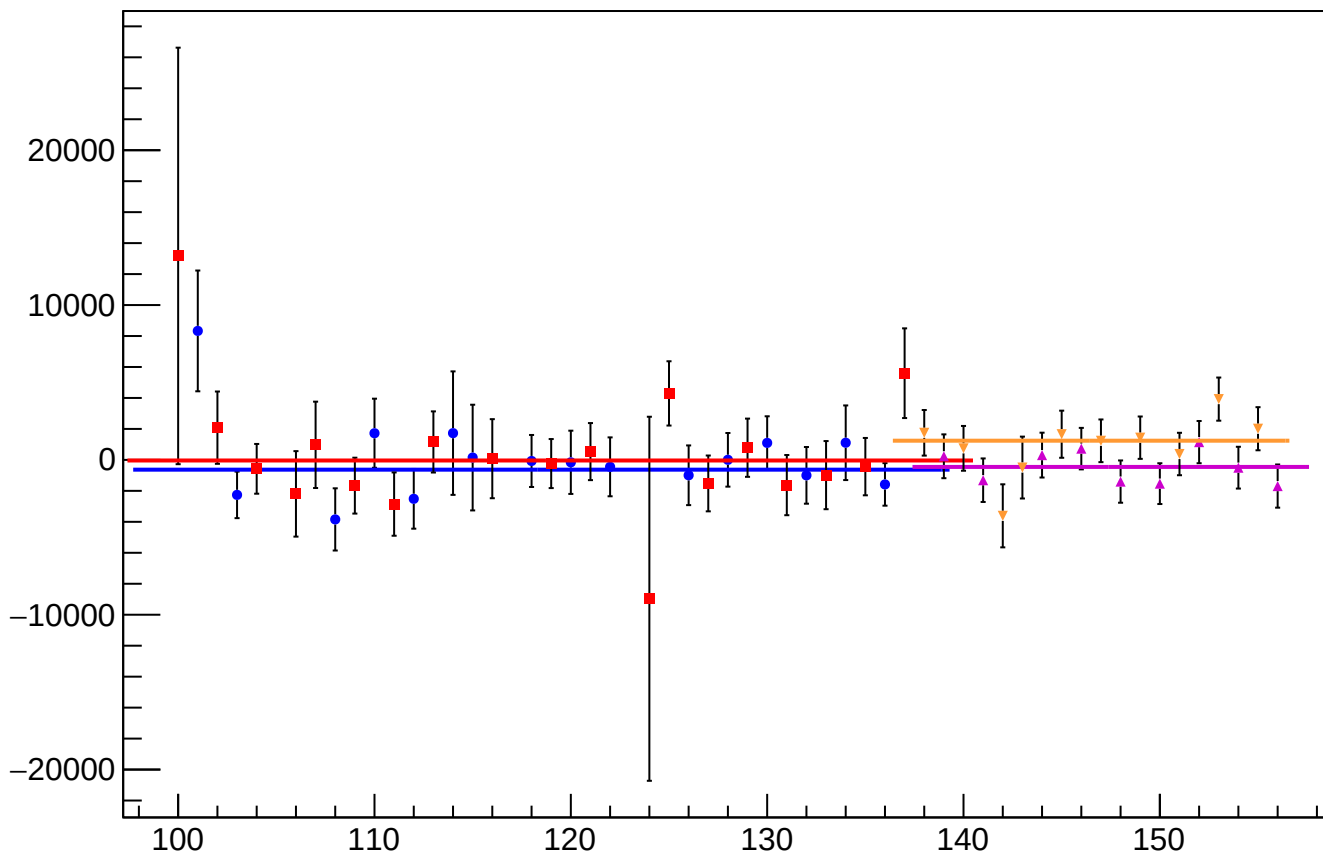
Right: 3120.071 $\pm$ 0.602 χ^2 /NDF: 2144256.9/34

In: 3673.895 $\pm$ 0.681 χ^2 /NDF:881792.8/24

Out: 2937.188 $\pm$ 0.565 χ^2 /NDF:3169270.6/28

All: 3237.474 $\pm$ 0.435 χ^2 /NDF: 4743605.1/53

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

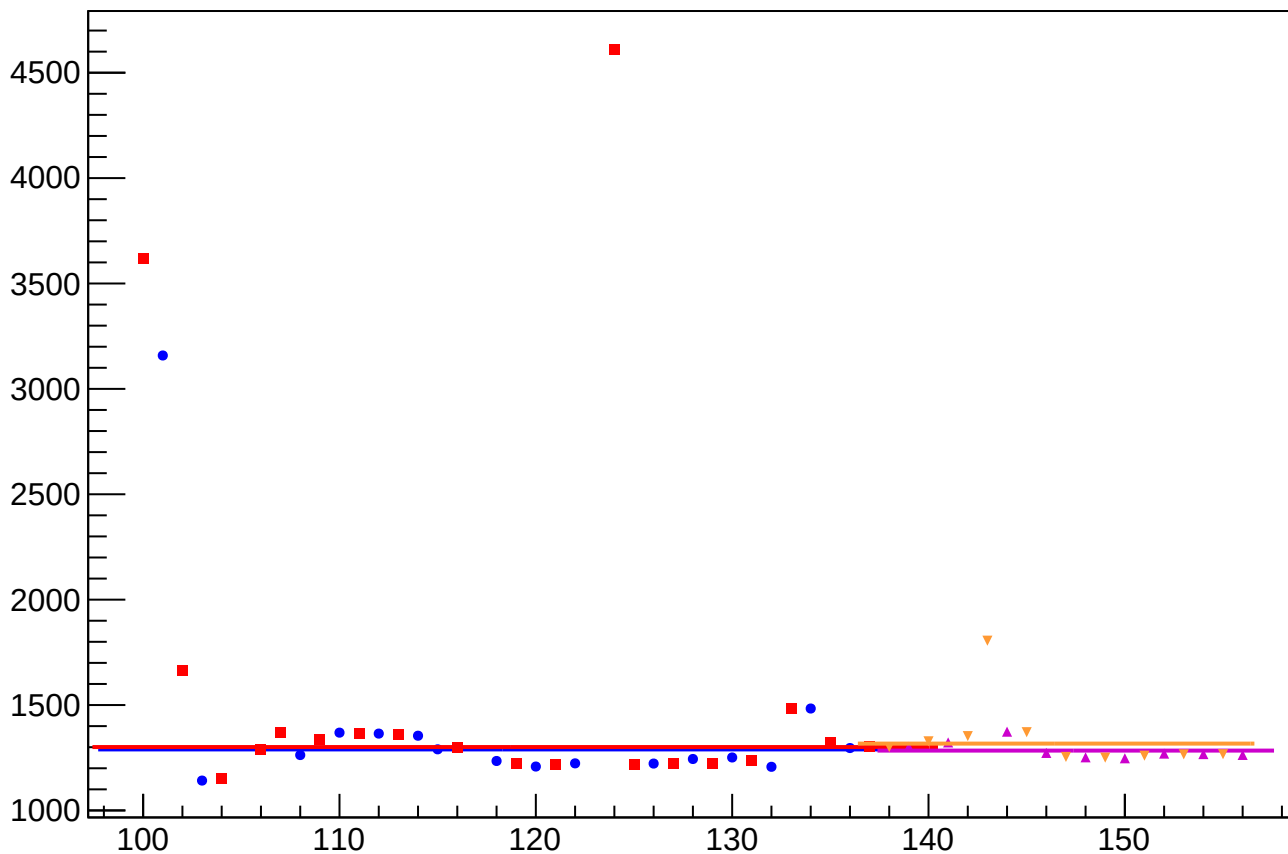
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1317.078 $\pm$ 0.334 χ^2 /NDF:140622.0/9

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1283.902 $\pm$ 0.324 χ^2 /NDF:13252.2/8

Left: 1300.013 $\pm$ 0.233 χ^2 /NDF: 158955.5/18

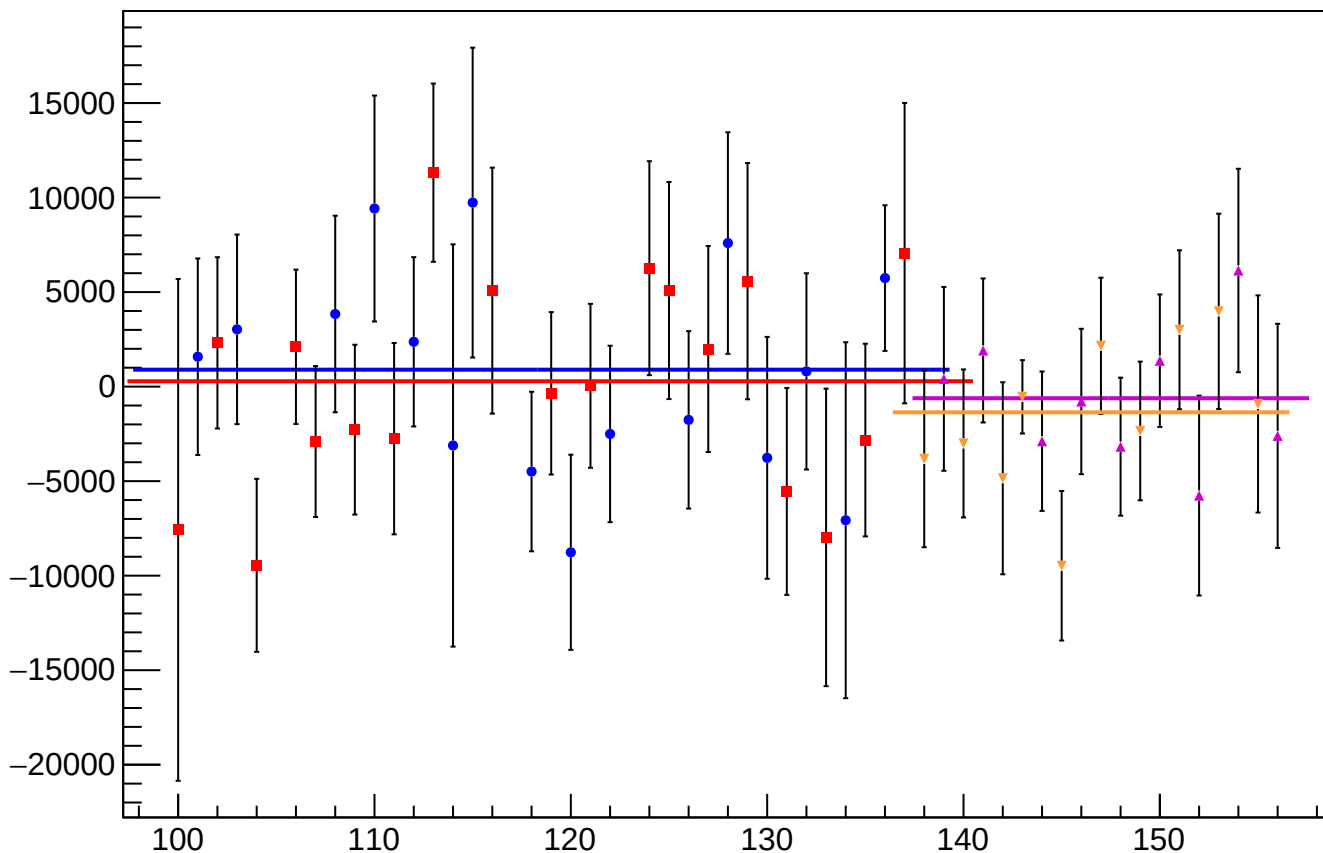
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1286.508 $\pm$ 0.236 χ^2 /NDF:528066.5/24

Out: 1309.140 $\pm$ 0.240 χ^2 /NDF:467697.7/28

All: 1297.670 $\pm$ 0.168 χ^2 /NDF: 1000281.5/53

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: -1357.832 ± 1150.716 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: -613.900 ± 1403.527 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.784 ± 889.866 $\chi^2/\text{NDF}: 13.0/18$

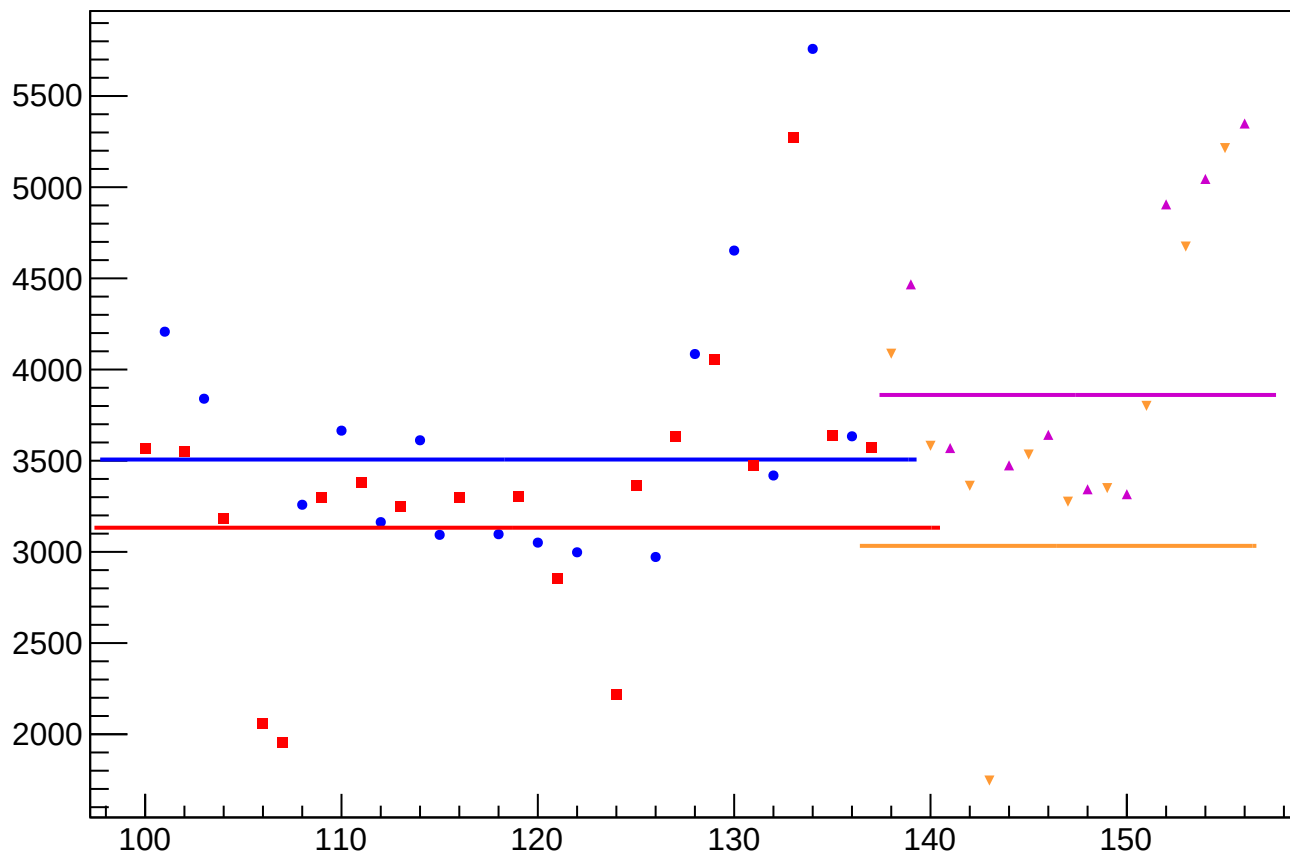
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 184.578 ± 963.414 $\chi^2/\text{NDF}: 19.0/24$

Out: -559.761 ± 824.914 $\chi^2/\text{NDF}: 28.1/28$

All: -244.894 ± 626.601 $\chi^2/\text{NDF}: 47.5/53$

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: 3033.023+/-0.814 χ^2/NDF : 1643113.7/9

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3860.630+/-0.992 χ^2/NDF : 460842.4/8

Left: 3365.707+/-0.629 χ^2/NDF : 2519818.7/18

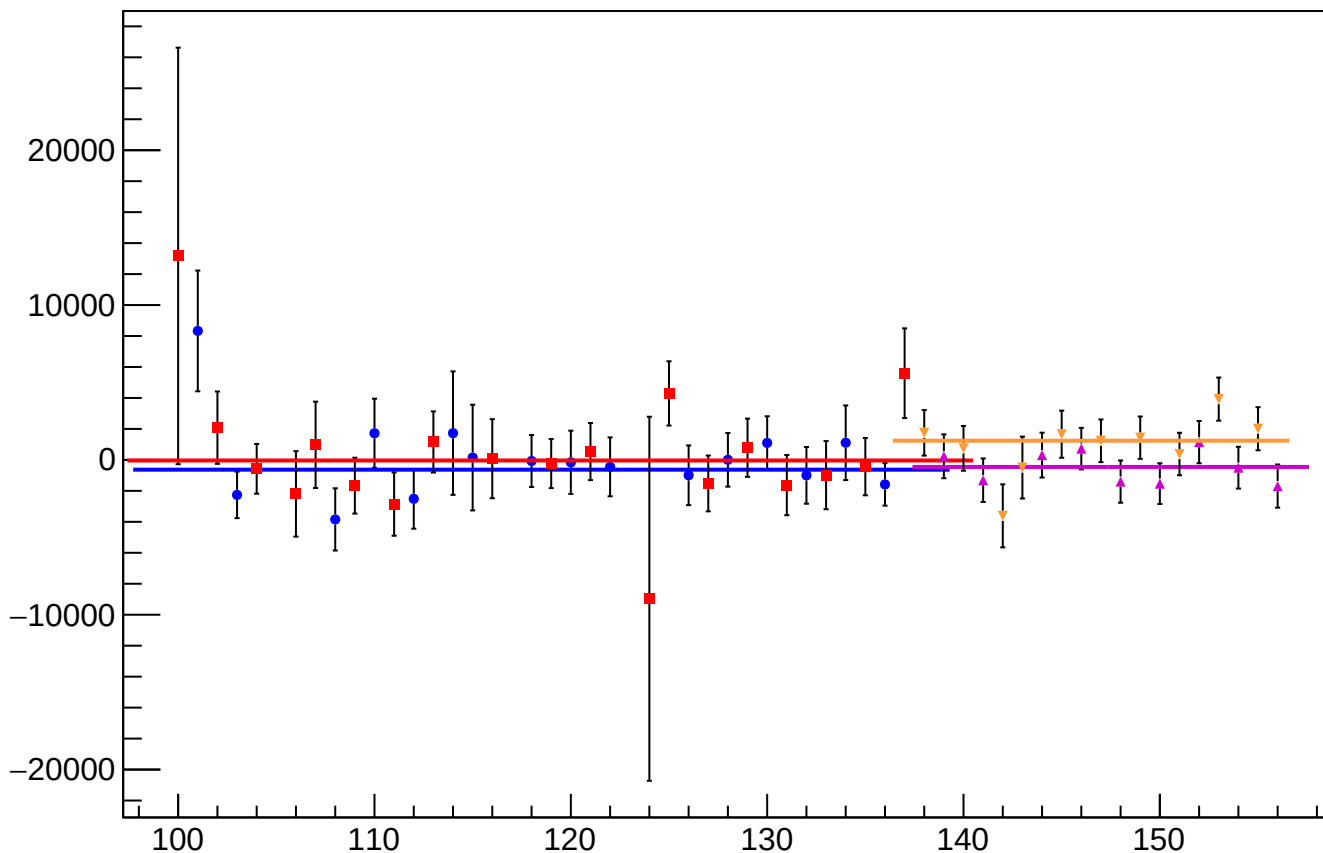
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3673.349+/-0.681 χ^2/NDF : 881418.4/24

Out: 3081.420+/-0.583 χ^2/NDF : 2300002.9/28

All: 3331.815+/-0.443 χ^2/NDF : 3617041.1/53

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: 1239.450+/-472.044 χ^2/NDF : 11.2/9

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -454.507+/-458.666 χ^2/NDF : 5.0/8

Left: 368.126+/-328.954 χ^2/NDF : 22.8/18

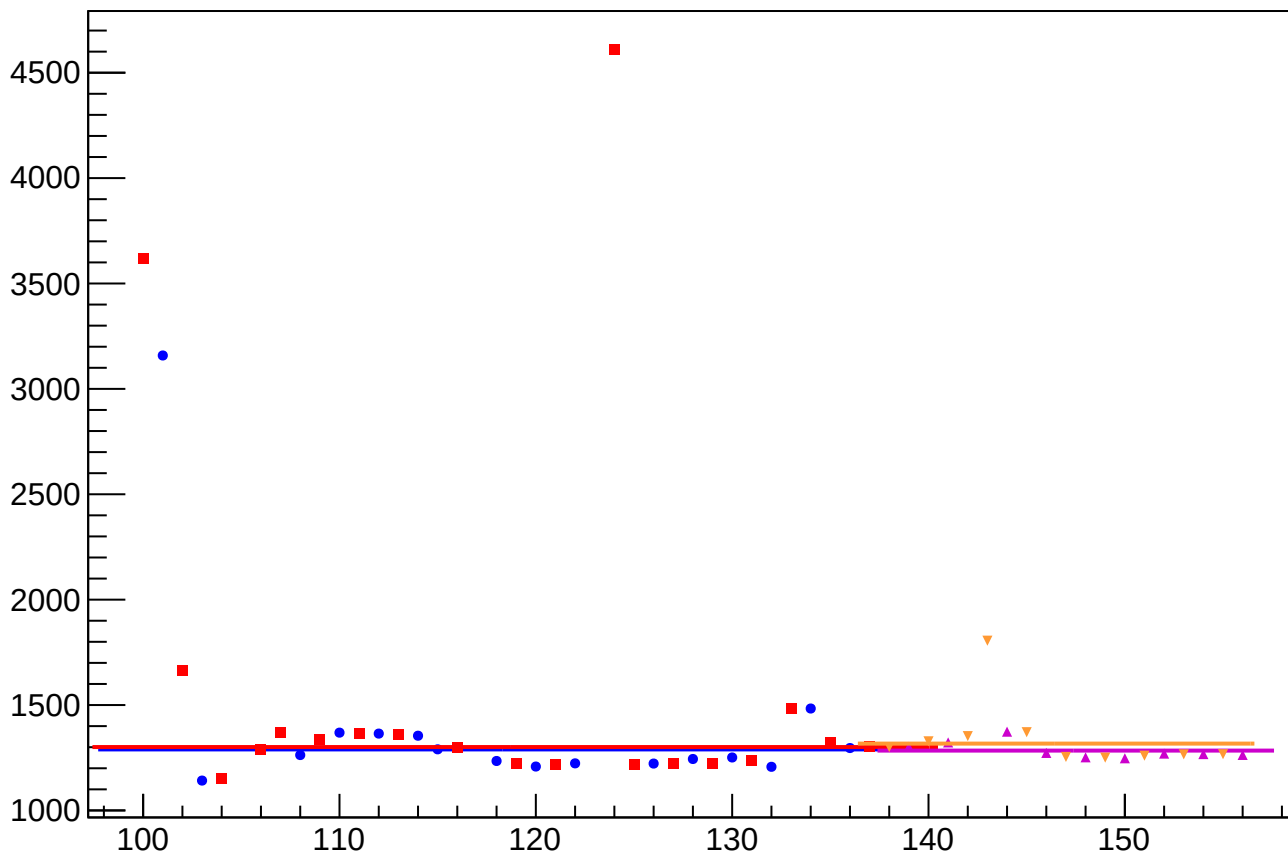
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -537.370+/-334.428 χ^2/NDF : 18.9/24

Out: 621.759+/-339.315 χ^2/NDF : 31.0/28

All: 33.787+/-238.185 χ^2/NDF : 55.9/53

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: 1317.078+/-0.334 χ^2/NDF : 140622.0/9

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1283.902+/-0.324 χ^2/NDF : 13252.2/8

Left: 1300.013+/-0.233 χ^2/NDF : 158955.5/18

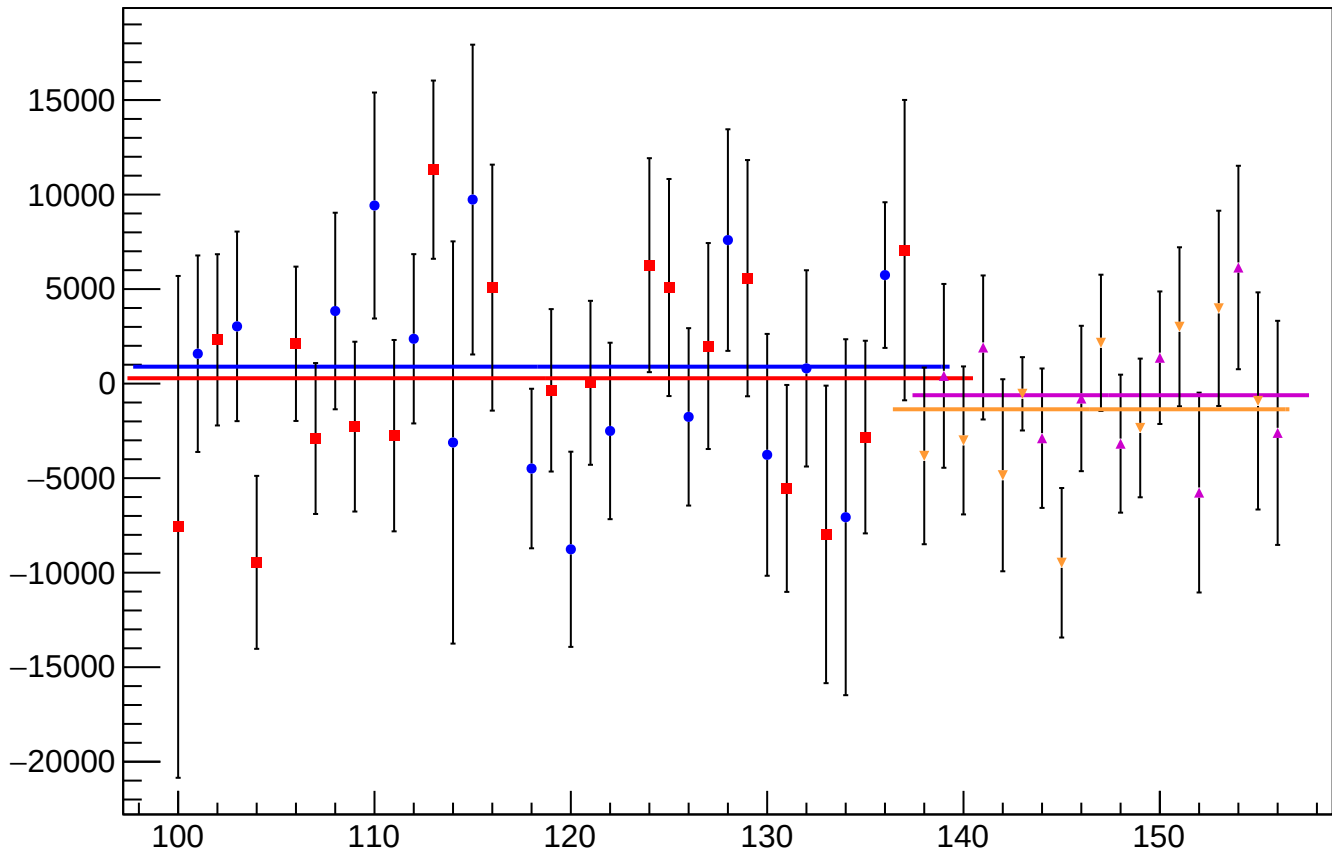
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1286.508+/-0.236 χ^2/NDF : 528066.5/24

Out: 1309.140+/-0.240 χ^2/NDF : 467697.7/28

All: 1297.670+/-0.168 χ^2/NDF : 1000281.5/53

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 ± 1324.823 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -1357.832 ± 1150.716 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: -613.900 ± 1403.527 $\chi^2/\text{NDF}: 4.3/8$

Left: -1058.784 ± 889.866 $\chi^2/\text{NDF}: 13.0/18$

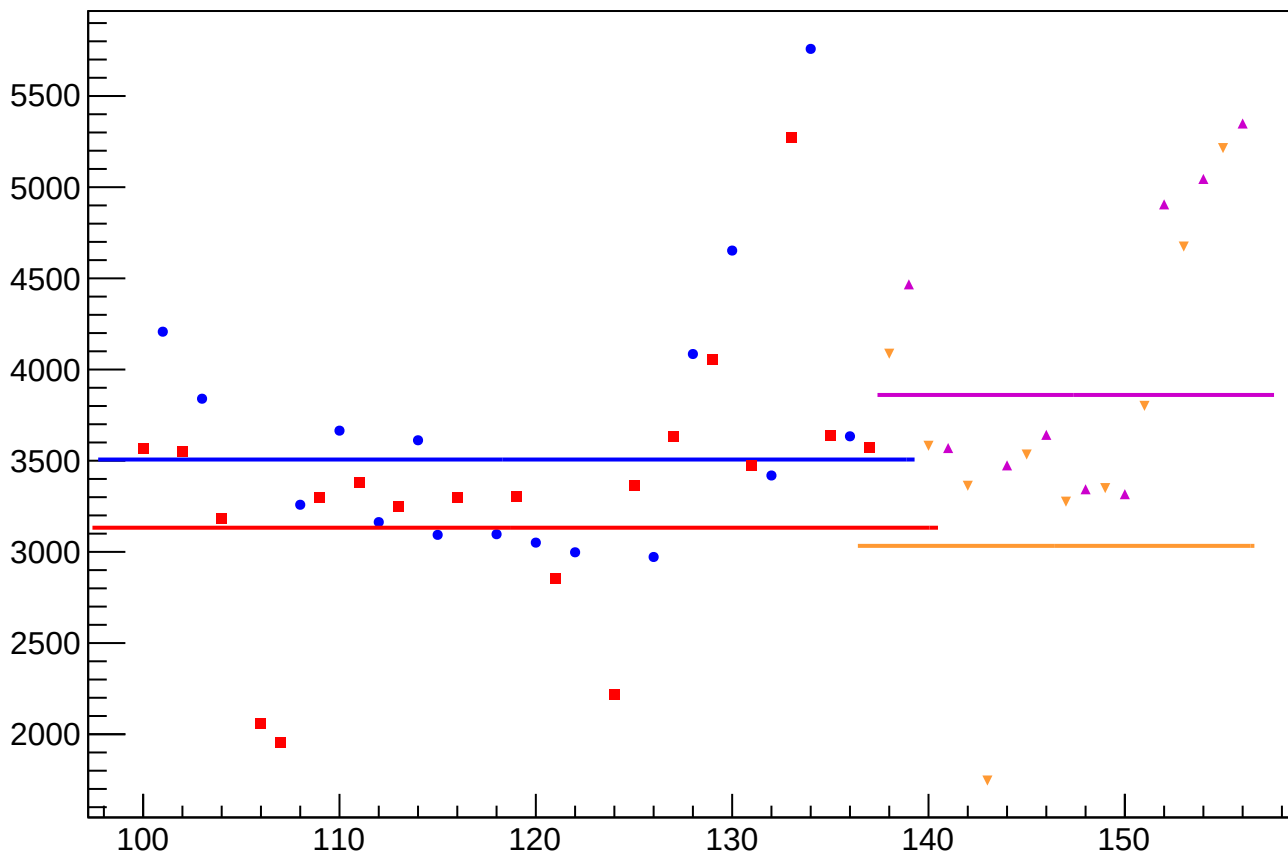
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 184.578 ± 963.414 $\chi^2/\text{NDF}: 19.0/24$

Out: -559.761 ± 824.914 $\chi^2/\text{NDF}: 28.1/28$

All: -244.894 ± 626.601 $\chi^2/\text{NDF}: 47.5/53$

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: 3033.023+/-0.814 χ^2/NDF : 1643113.7/9

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3860.630+/-0.992 χ^2/NDF : 460842.4/8

Left: 3365.707+/-0.629 χ^2/NDF : 2519818.7/18

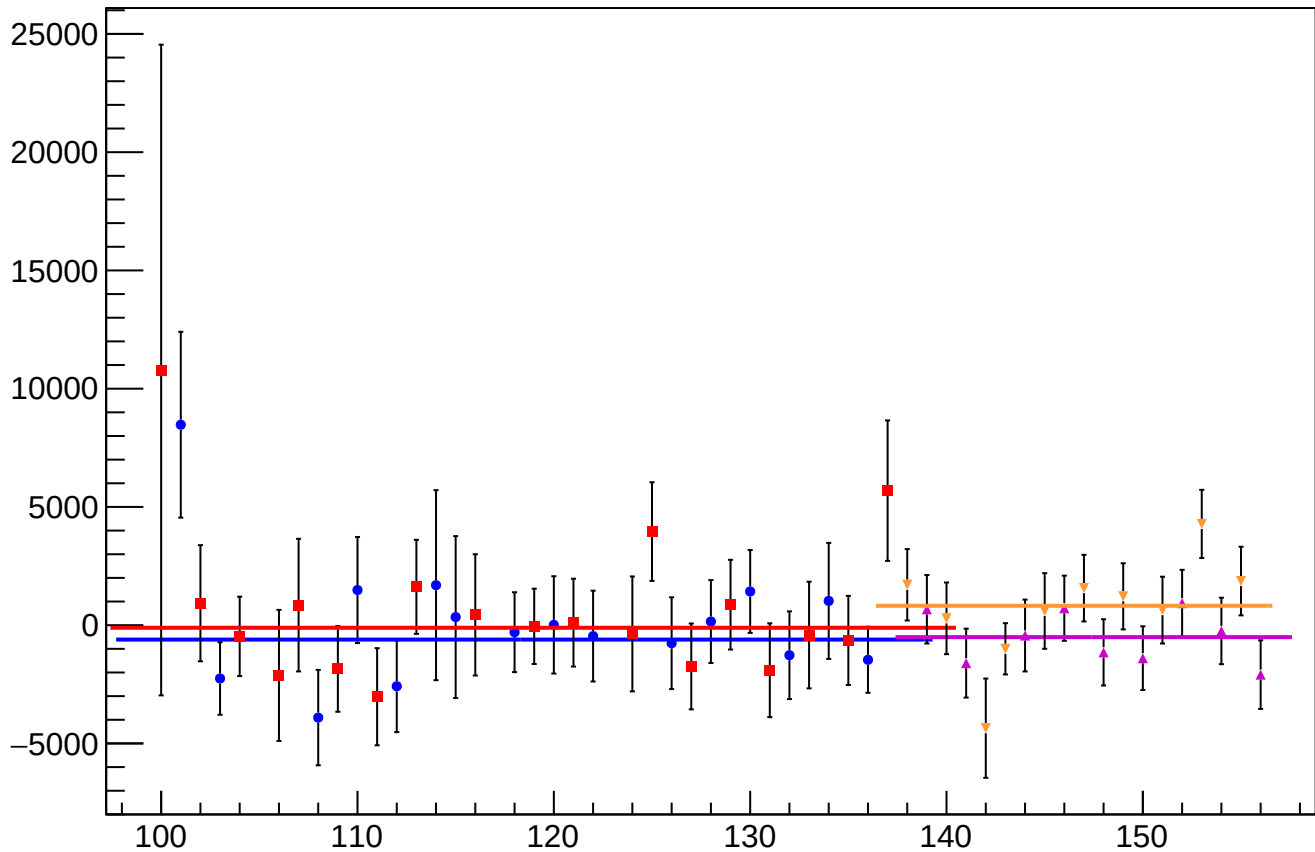
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3673.349+/-0.681 χ^2/NDF : 881418.4/24

Out: 3081.420+/-0.583 χ^2/NDF : 2300002.9/28

All: 3331.815+/-0.443 χ^2/NDF : 3617041.1/53

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: 820.470+/-455.608 χ^2/NDF :16.0/9

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -505.192+/-473.786 χ^2/NDF :4.9/8

Left: 183.559+/-328.402 χ^2/NDF : 25.1/18

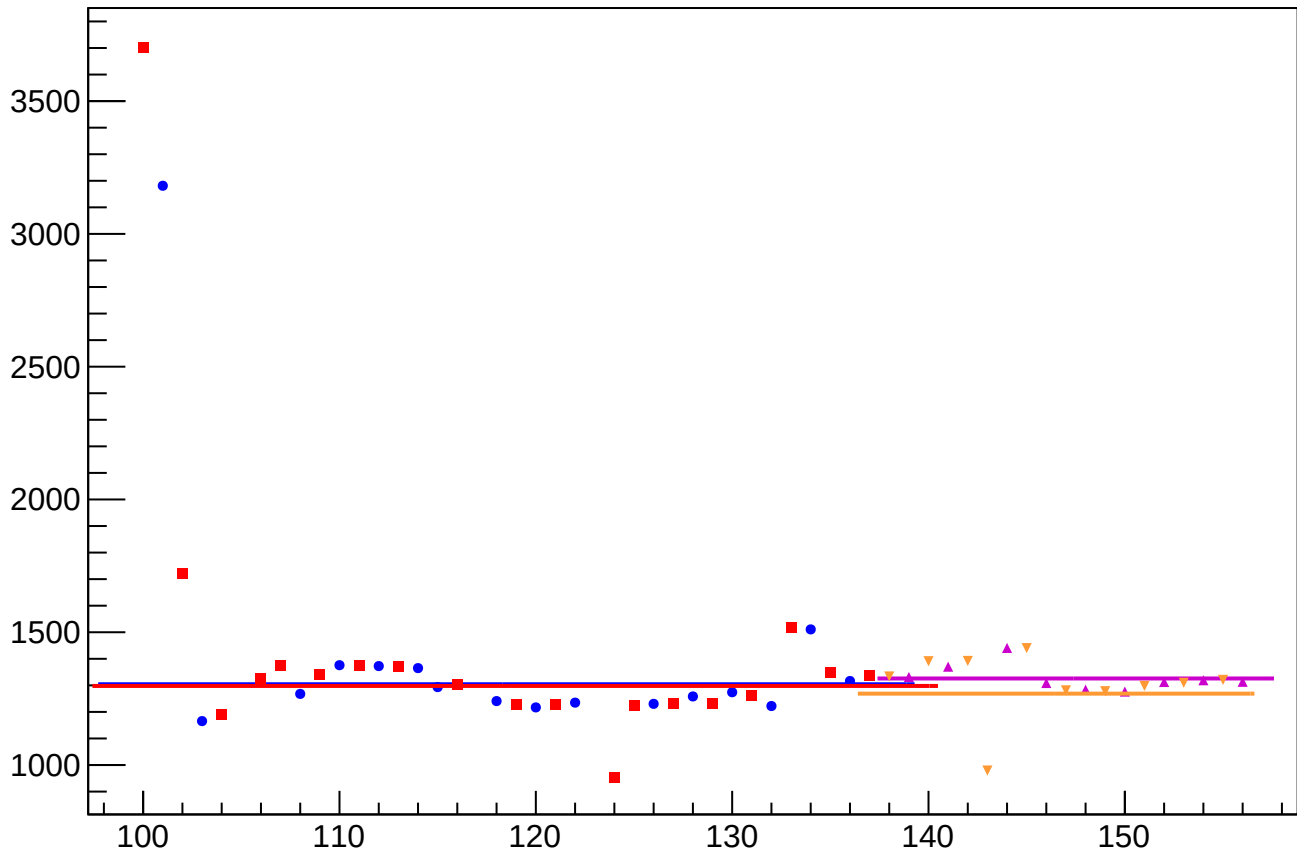
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -554.350+/-342.001 χ^2/NDF :19.1/24

Out: 385.459+/-332.245 χ^2/NDF :32.9/28

All: -70.851+/-238.307 χ^2/NDF : 55.8/53

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.4/15

Left Out: 1268.816 $\pm$ 0.322 χ^2 /NDF:194521.7/9

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1325.912 $\pm$ 0.335 χ^2 /NDF:18549.3/8

Left: 1296.248 $\pm$ 0.232 χ^2 /NDF: 228161.6/18

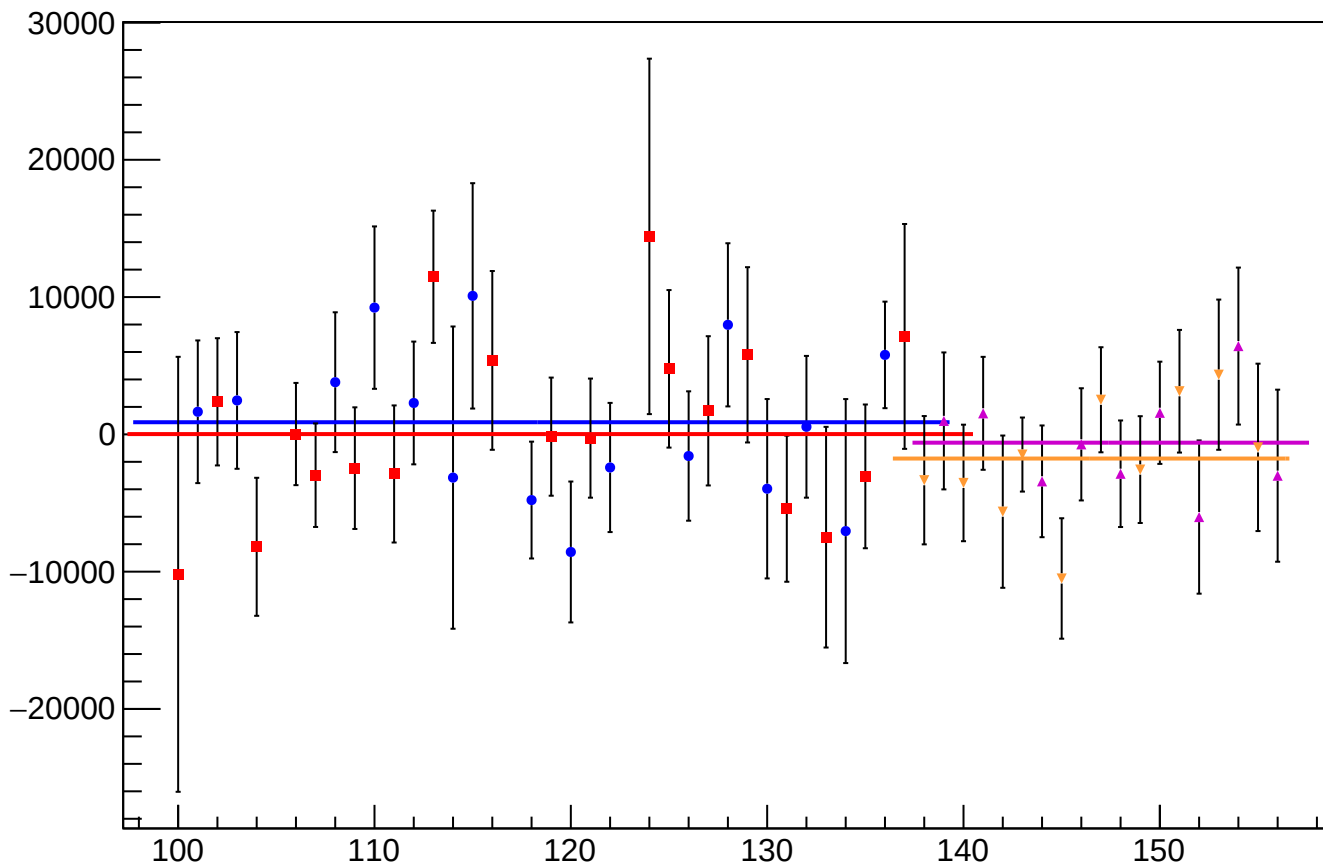
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1315.466 $\pm$ 0.242 χ^2 /NDF:531168.5/24

Out: 1282.396 $\pm$ 0.235 χ^2 /NDF:411410.3/28

All: 1298.447 $\pm$ 0.168 χ^2 /NDF: 952203.1/53

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 ± 1327.399 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -1760.925 ± 1326.844 $\chi^2/\text{NDF}: 8.5/9$

Right Out: 20.681 ± 1200.015 $\chi^2/\text{NDF}: 16.8/18$

Left In: -605.876 ± 1496.897 $\chi^2/\text{NDF}: 4.1/8$

Left: -1252.709 ± 992.924 $\chi^2/\text{NDF}: 13.0/18$

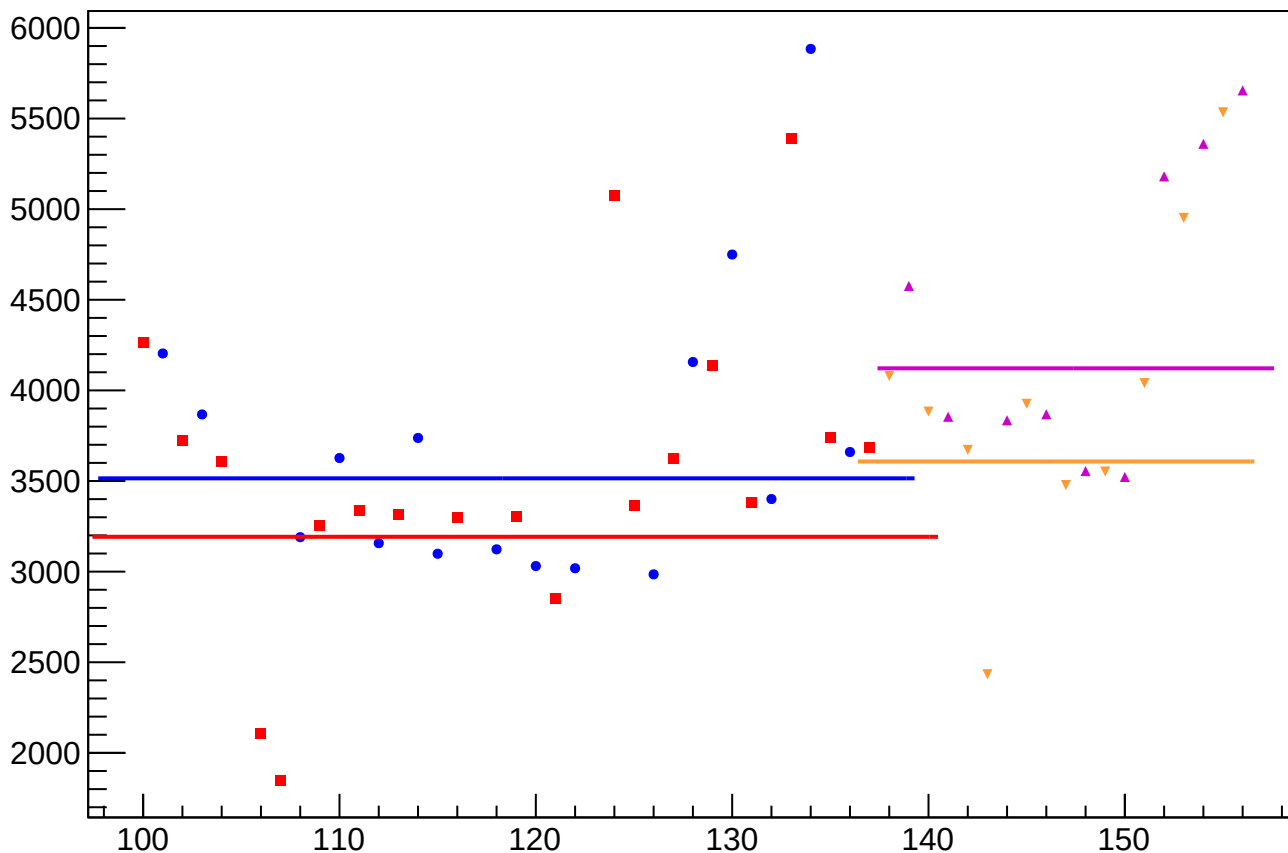
Right: 408.965 ± 890.176 $\chi^2/\text{NDF}: 31.2/34$

In: 228.187 ± 993.156 $\chi^2/\text{NDF}: 18.8/24$

Out: -780.923 ± 890.009 $\chi^2/\text{NDF}: 26.3/28$

All: -331.475 ± 662.808 $\chi^2/\text{NDF}: 45.7/53$

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746 $\pm$ 0.939 χ^2 /NDF: 375078.6/15

Left Out: 3607.808 $\pm$ 0.938 χ^2 /NDF: 760158.3/9

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4121.849 $\pm$ 1.058 χ^2 /NDF: 422854.0/8

Left: 3833.983 $\pm$ 0.702 χ^2 /NDF: 1315090.8/18

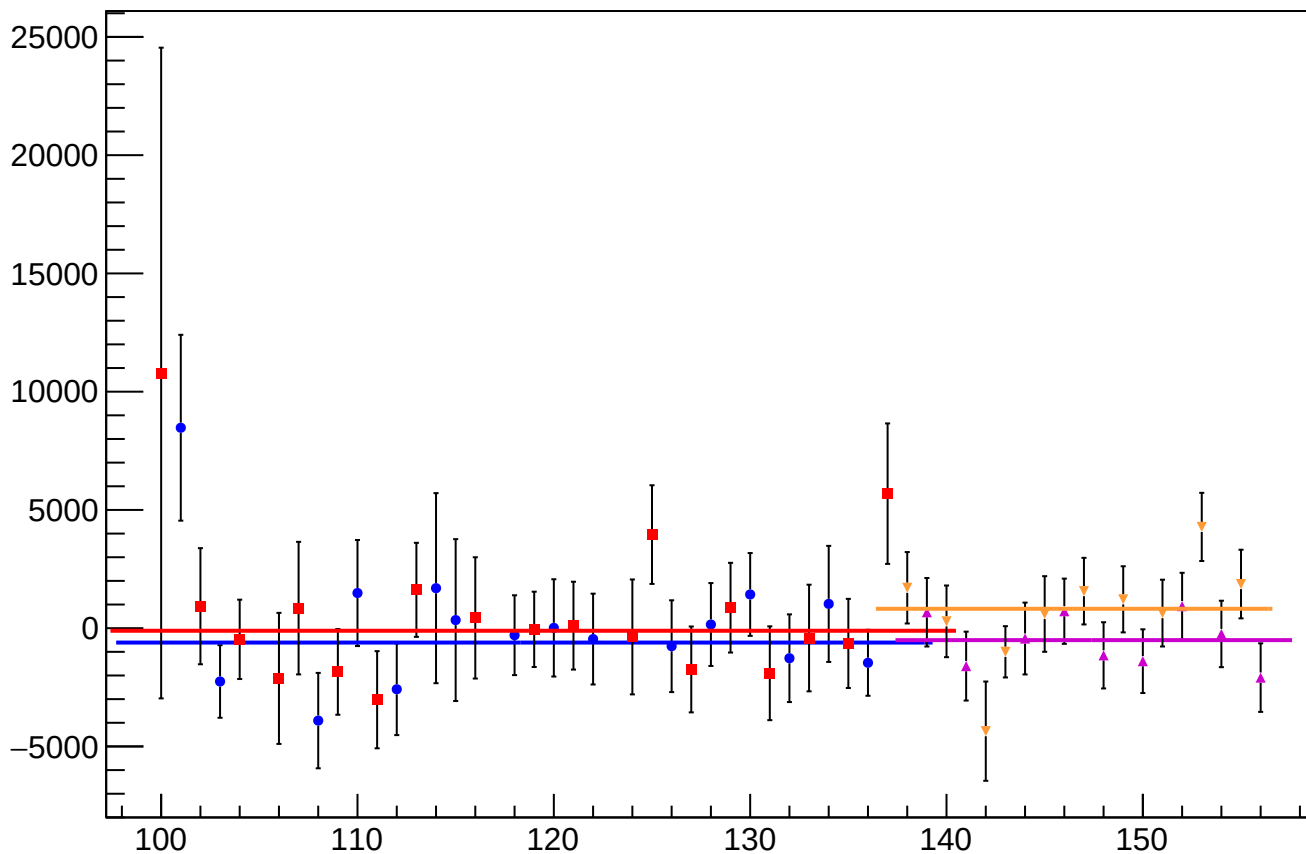
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3781.993 $\pm$ 0.702 χ^2 /NDF: 982095.8/24

Out: 3379.198 $\pm$ 0.629 χ^2 /NDF: 1640589.9/28

All: 3558.599 $\pm$ 0.469 χ^2 /NDF: 2805138.5/53

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -607.834 ± 494.182 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 820.470 ± 455.608 $\chi^2/\text{NDF}: 16.0/9$

Right Out: -108.619 ± 485.553 $\chi^2/\text{NDF}: 14.9/18$

Left In: -505.191 ± 473.787 $\chi^2/\text{NDF}: 4.9/8$

Left: 183.559 ± 328.402 $\chi^2/\text{NDF}: 25.1/18$

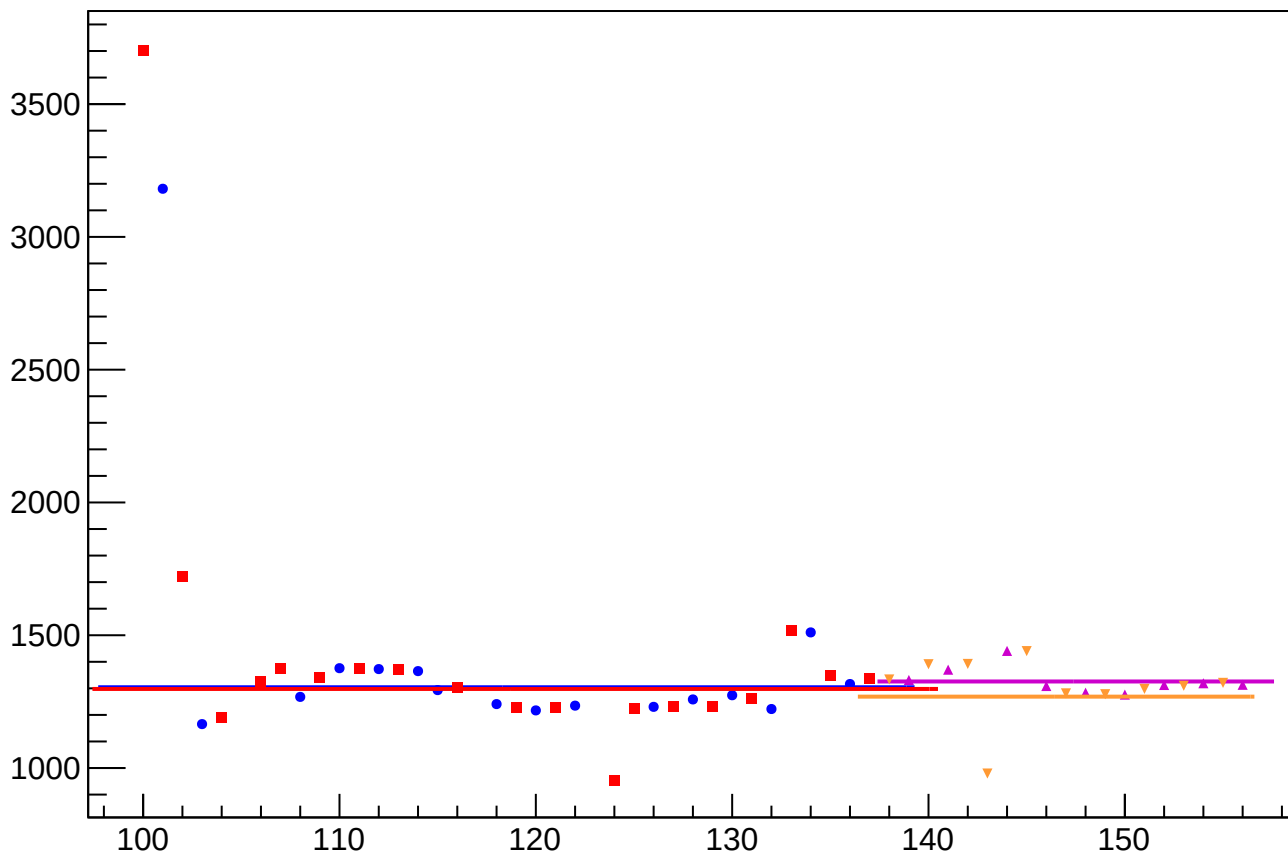
Right: -353.830 ± 346.348 $\chi^2/\text{NDF}: 29.5/34$

In: -554.351 ± 342.001 $\chi^2/\text{NDF}: 19.1/24$

Out: 385.456 ± 332.245 $\chi^2/\text{NDF}: 32.9/28$

All: -70.853 ± 238.307 $\chi^2/\text{NDF}: 55.8/53$

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: 1268.817+/-0.322 χ^2/NDF :194522.0/9

Right Out: 1297.796+/-0.343 χ^2/NDF : 213097.0/18

Left In: 1325.913+/-0.335 χ^2/NDF :18549.4/8

Left: 1296.249+/-0.232 χ^2/NDF : 228162.0/18

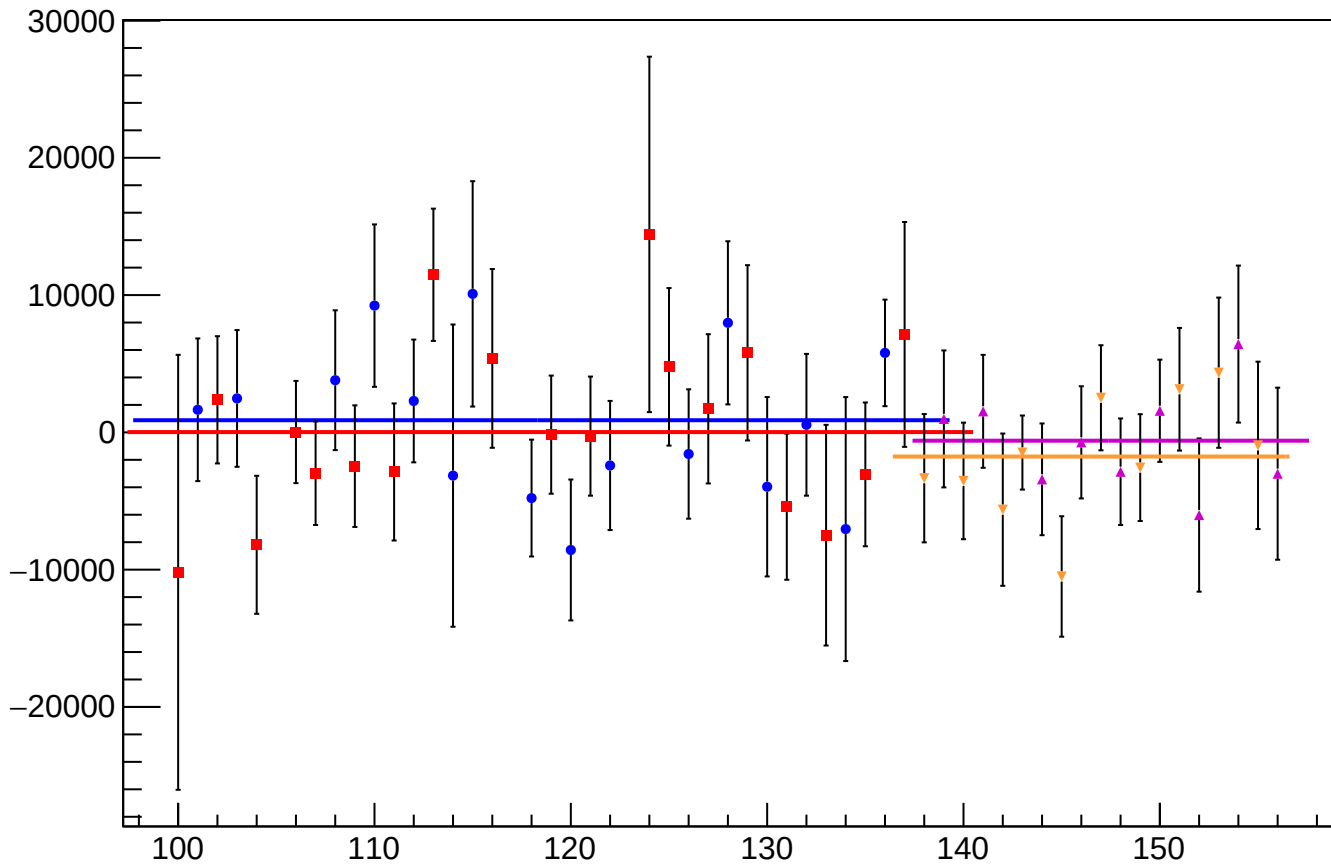
Right: 1300.891+/-0.245 χ^2/NDF : 723852.4/34

In: 1315.467+/-0.242 χ^2/NDF :531168.9/24

Out: 1282.396+/-0.235 χ^2/NDF :411410.5/28

All: 1298.447+/-0.168 χ^2/NDF : 952203.7/53

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 χ^2/NDF : 14.1/15

Left Out: -1760.923 ± 1326.846 χ^2/NDF : 8.5/9

Right Out: 20.677 ± 1200.012 χ^2/NDF : 16.8/18

Left In: -605.875 ± 1496.899 χ^2/NDF : 4.1/8

Left: -1252.707 ± 992.925 χ^2/NDF : 13.0/18

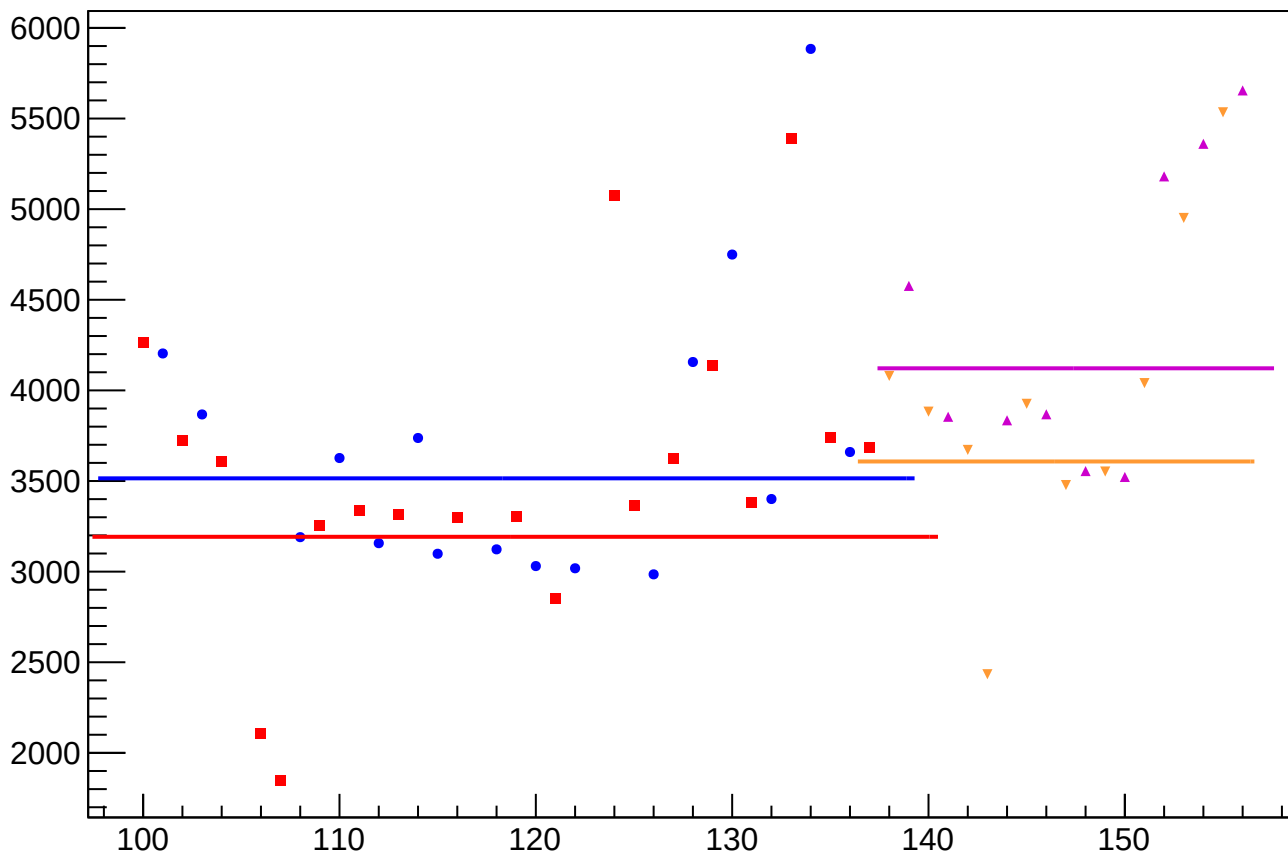
Right: 408.958 ± 890.174 χ^2/NDF : 31.2/34

In: 228.185 ± 993.155 χ^2/NDF : 18.8/24

Out: -780.921 ± 890.008 χ^2/NDF : 26.3/28

All: -331.475 ± 662.808 χ^2/NDF : 45.7/53

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737 ± 0.939 $\chi^2/\text{NDF}: 375082.8/15$

Left Out: 3607.813 ± 0.938 $\chi^2/\text{NDF}: 760158.4/9$

Right Out: 3192.196 ± 0.849 $\chi^2/\text{NDF}: 772497.9/18$

Left In: 4121.854 ± 1.058 $\chi^2/\text{NDF}: 422854.5/8$

Left: 3833.988 ± 0.702 $\chi^2/\text{NDF}: 1315091.3/18$

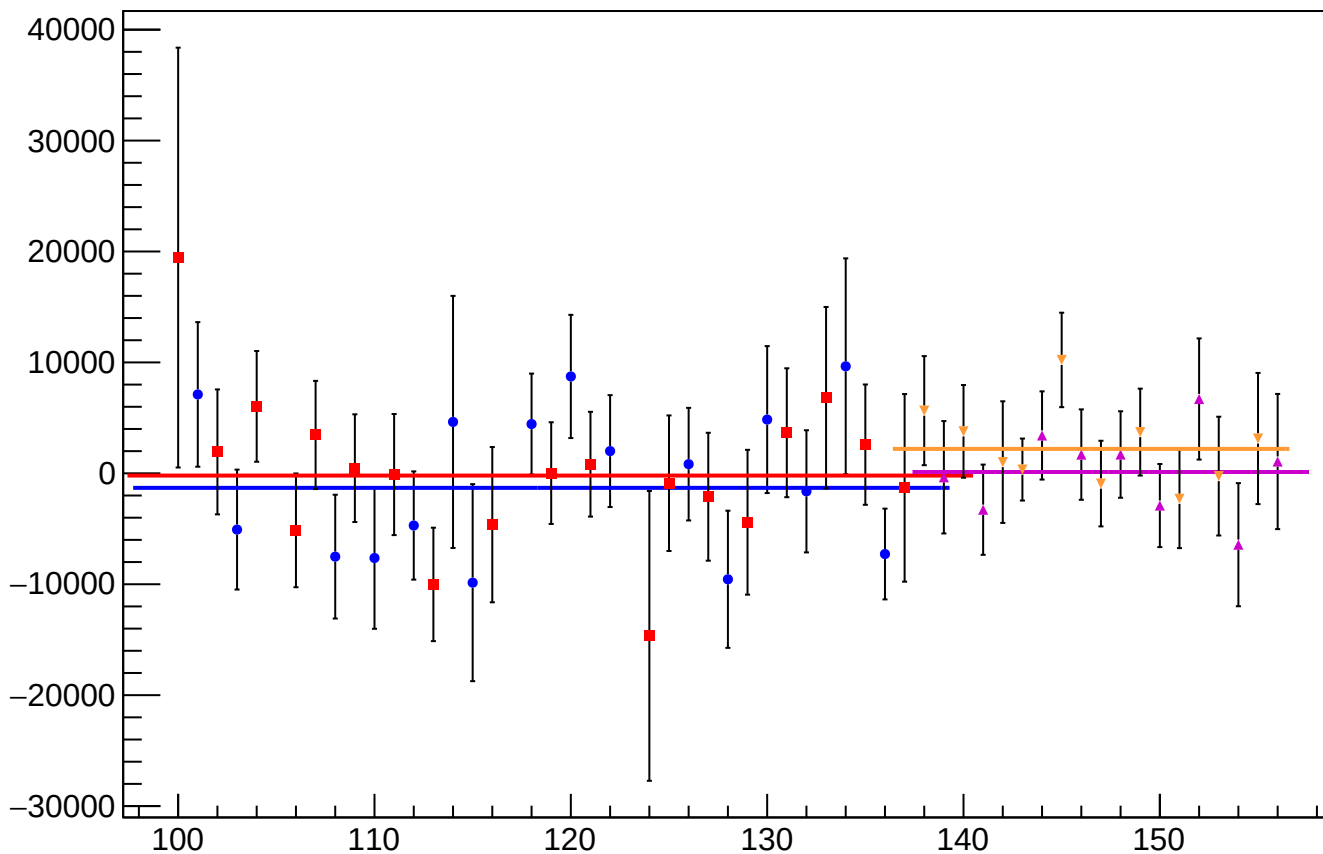
Right: 3337.251 ± 0.629 $\chi^2/\text{NDF}: 1212560.4/34$

In: 3781.989 ± 0.702 $\chi^2/\text{NDF}: 982109.3/24$

Out: 3379.195 ± 0.629 $\chi^2/\text{NDF}: 1640599.0/28$

All: 3558.596 ± 0.469 $\chi^2/\text{NDF}: 2805160.3/53$

asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -1309.349 $\pm$ 1431.624 χ^2 /NDF: 17.6/15

Left Out: 2203.166 $\pm$ 1334.679 χ^2 /NDF: 6.7/9

Right Out: -201.593 $\pm$ 1336.062 χ^2 /NDF: 11.6/18

Left In: 120.099 $\pm$ 1486.086 χ^2 /NDF: 5.2/8

Left: 1273.122 $\pm$ 992.988 χ^2 /NDF: 13.1/18

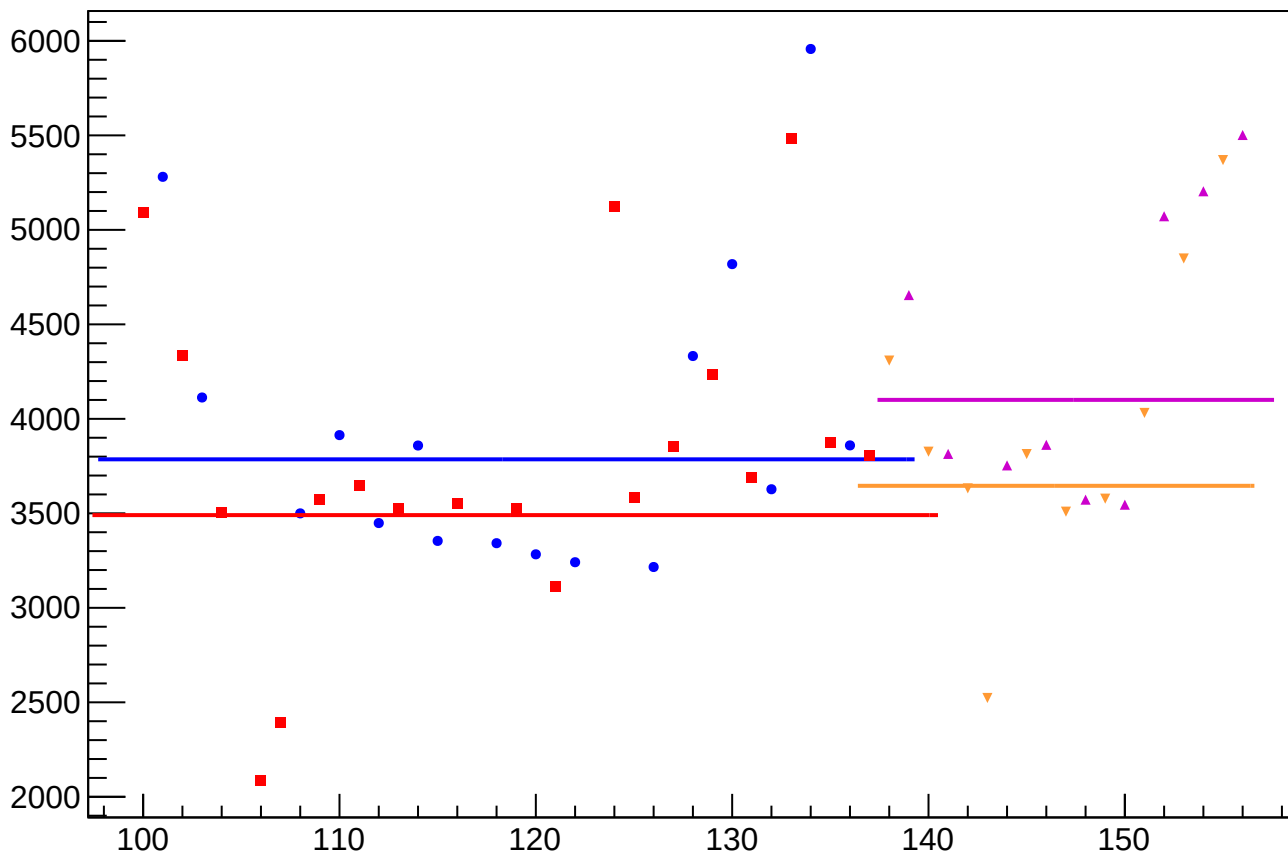
Right: -717.269 $\pm$ 976.776 χ^2 /NDF: 29.5/34

In: -621.298 $\pm$ 1031.027 χ^2 /NDF: 23.3/24

Out: 1002.032 $\pm$ 944.249 χ^2 /NDF: 20.0/28

All: 261.546 $\pm$ 696.346 χ^2 /NDF: 44.6/53

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: 3645.649+/-0.944 χ^2/NDF : 654864.0/9

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4100.386+/-1.051 χ^2/NDF : 384587.9/8

Left: 3848.679+/-0.702 χ^2/NDF : 1143108.7/18

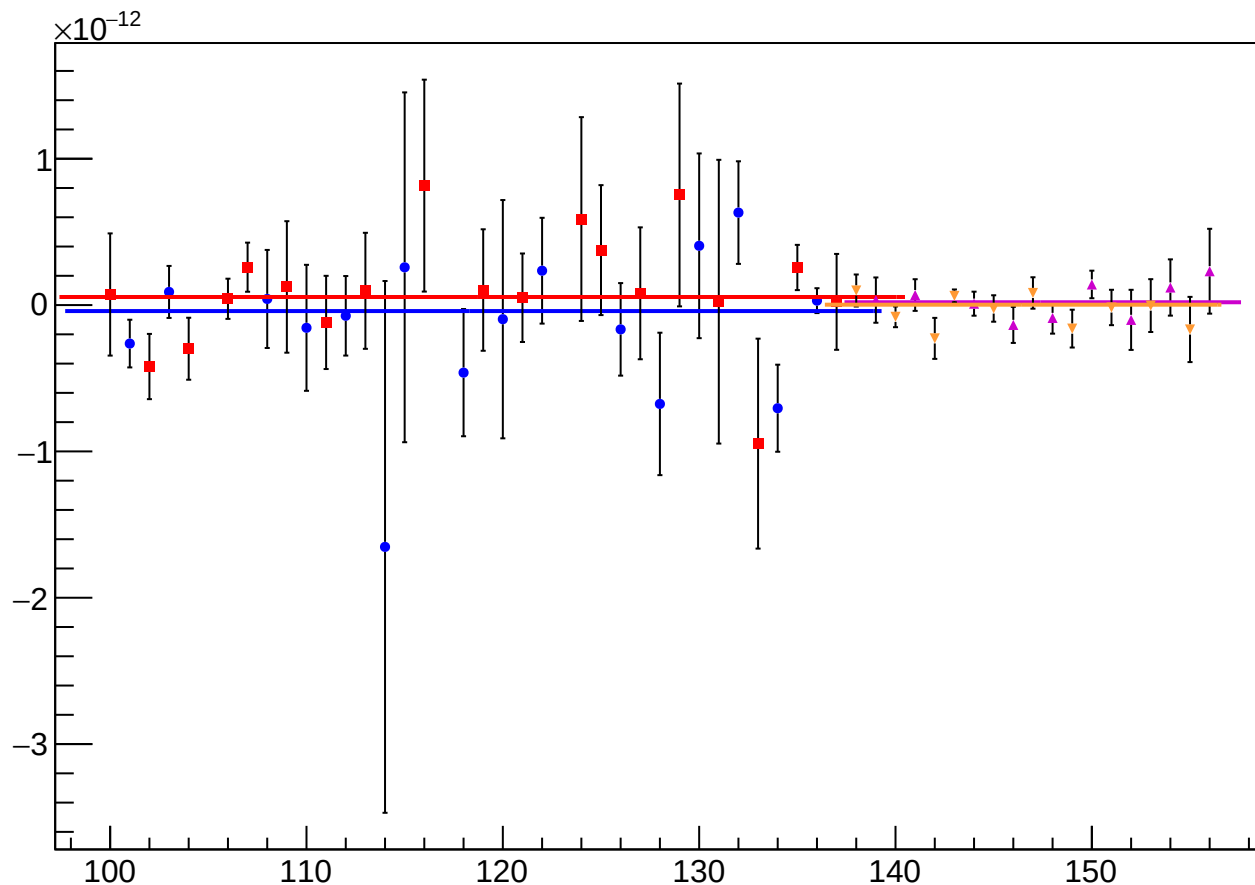
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3937.208+/-0.729 χ^2/NDF : 814072.9/24

Out: 3567.147+/-0.663 χ^2/NDF : 1255243.3/28

All: 3734.686+/-0.491 χ^2/NDF : 2210322.8/53

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 : 9.6/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 5.6/8

Left: 0.000 ± 0.000 χ^2/NDF : 15.3/18

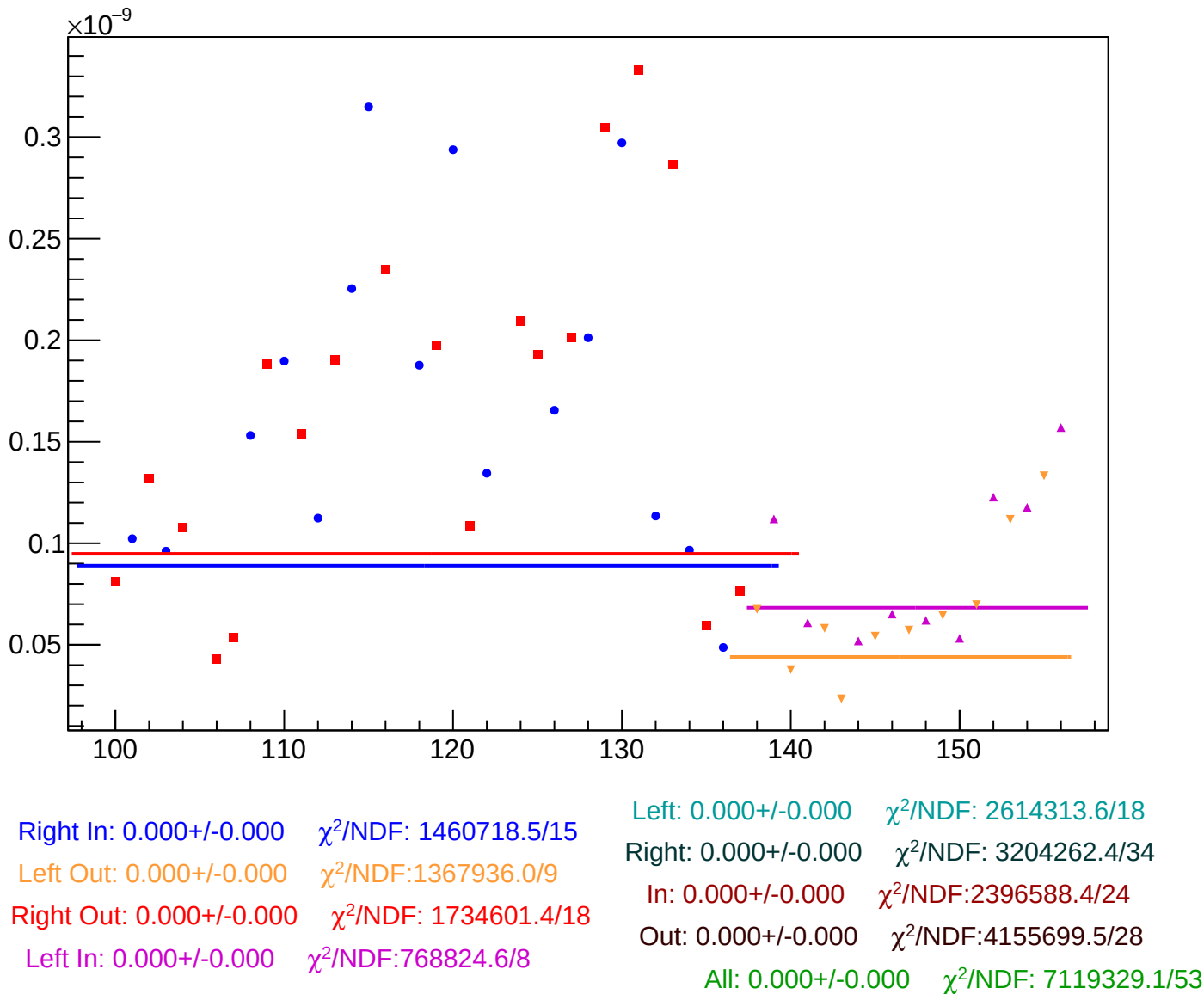
Right: 0.000 ± 0.000 χ^2/NDF : 33.7/34

In: -0.000 ± 0.000 χ^2/NDF : 23.0/24

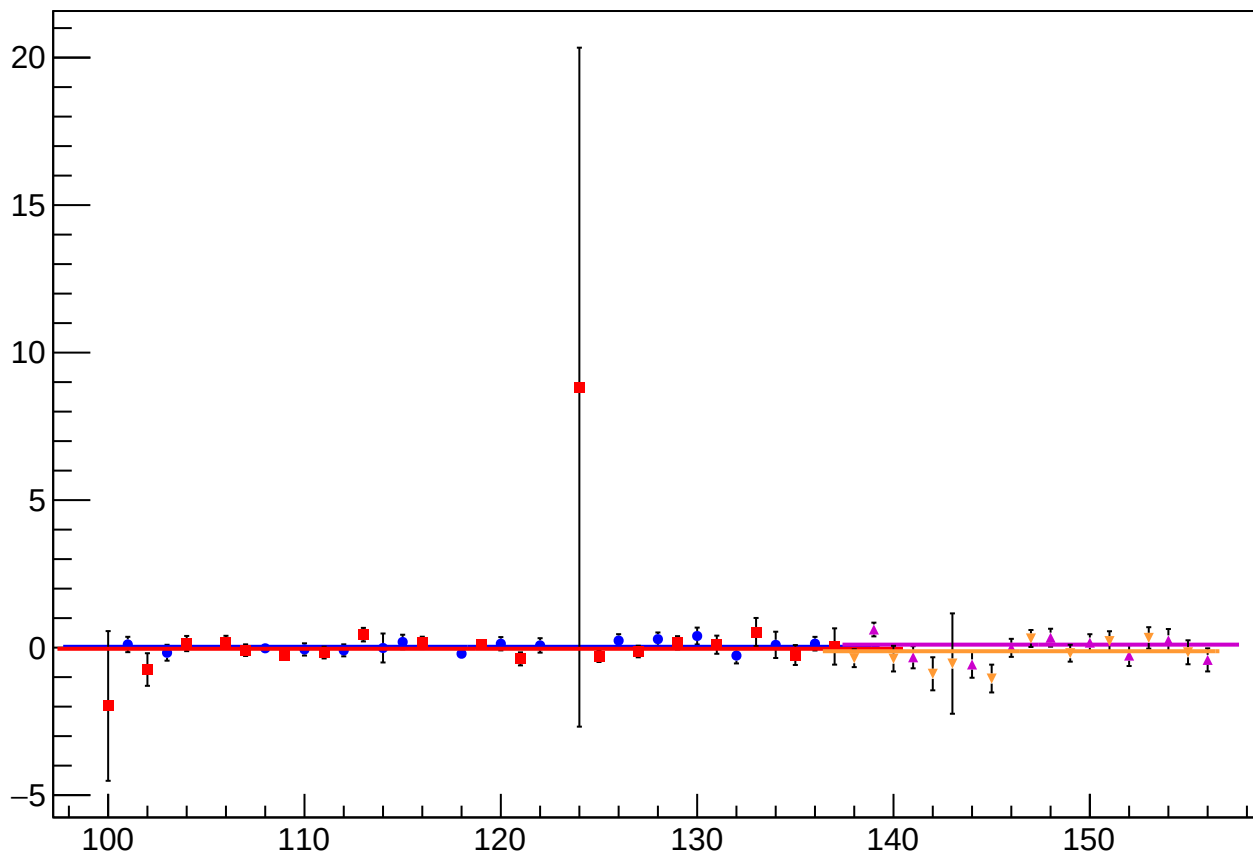
Out: 0.000 ± 0.000 χ^2/NDF : 26.0/28

All: 0.000 ± 0.000 χ^2/NDF : 49.1/53

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_atl1r2_dd_atl2r1_dd_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: -0.122 ± 0.119 $\chi^2/\text{NDF}: 11.6/9$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.101 ± 0.108 $\chi^2/\text{NDF}: 12.1/8$

Left: -0.000 ± 0.080 $\chi^2/\text{NDF}: 25.7/18$

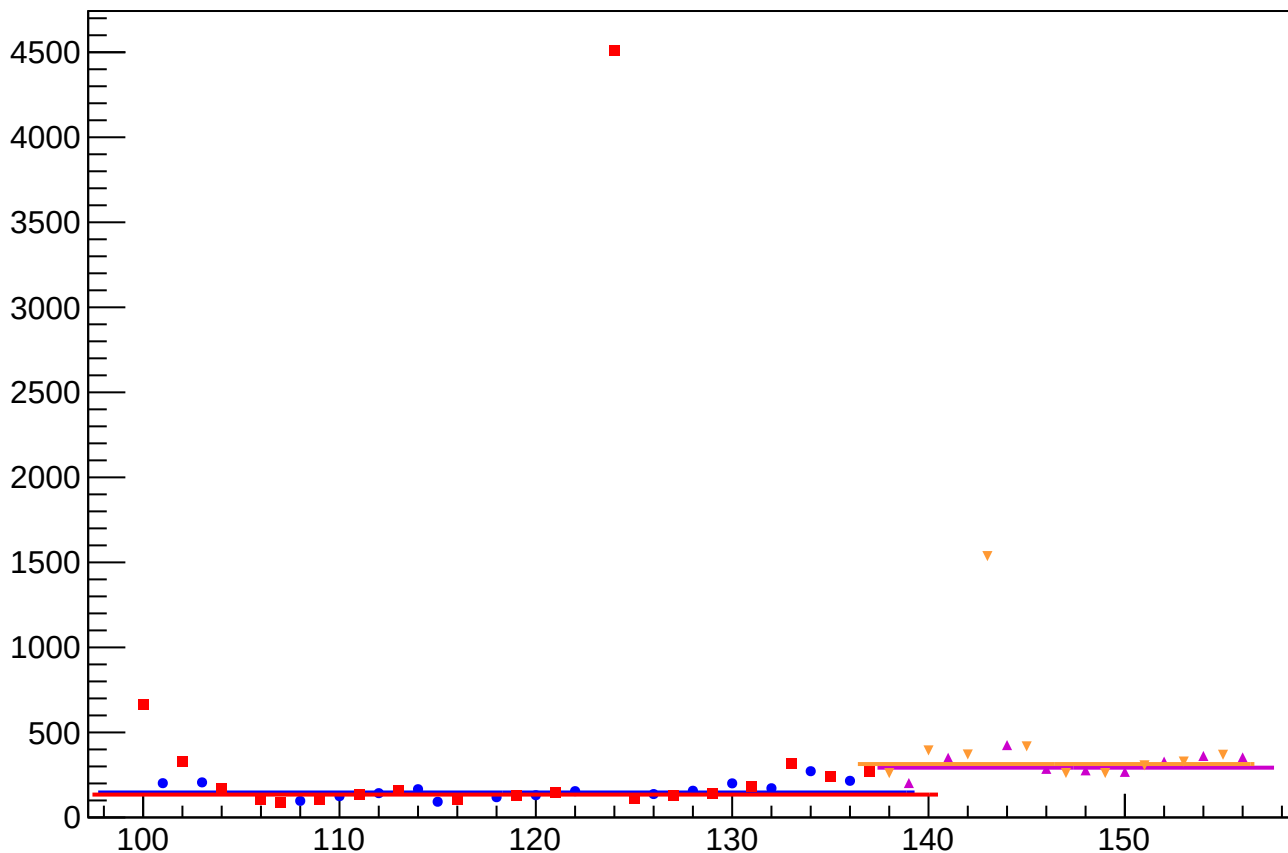
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.044 ± 0.051 $\chi^2/\text{NDF}: 22.0/24$

Out: -0.054 ± 0.050 $\chi^2/\text{NDF}: 32.0/28$

All: -0.006 ± 0.036 $\chi^2/\text{NDF}: 55.9/53$

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: 314.096+/-0.084 χ^2/NDF : 1457813.7/9

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 292.722+/-0.076 χ^2/NDF : 676176.2/8

Left: 302.413+/-0.056 χ^2/NDF : 2169500.3/18

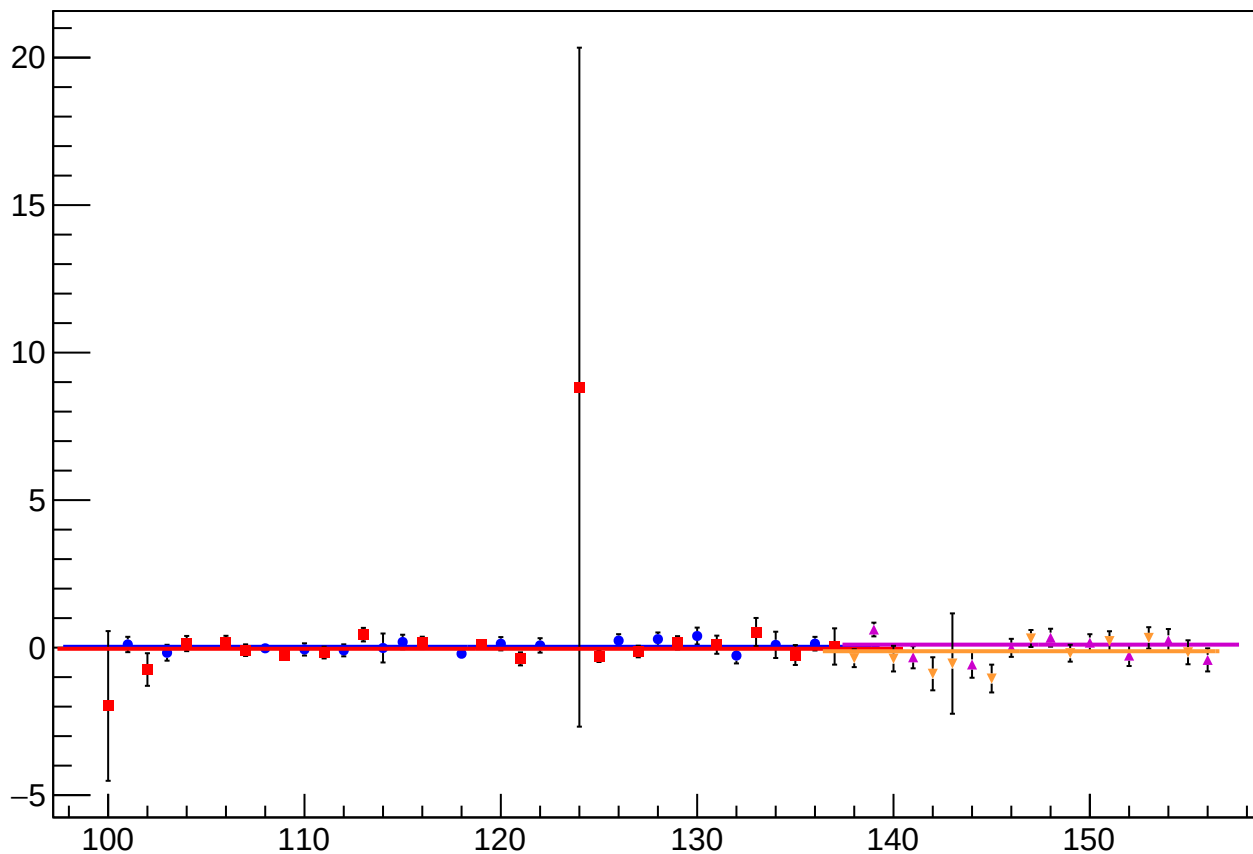
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 179.223+/-0.036 χ^2/NDF : 4513737.9/24

Out: 166.085+/-0.035 χ^2/NDF : 6844354.8/28

All: 172.502+/-0.025 χ^2/NDF : 11426269.5/53

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.122+/-0.119 χ^2/NDF :11.6/9

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.101+/-0.108 χ^2/NDF :12.1/8

Left: -0.000+/-0.080 χ^2/NDF : 25.7/18

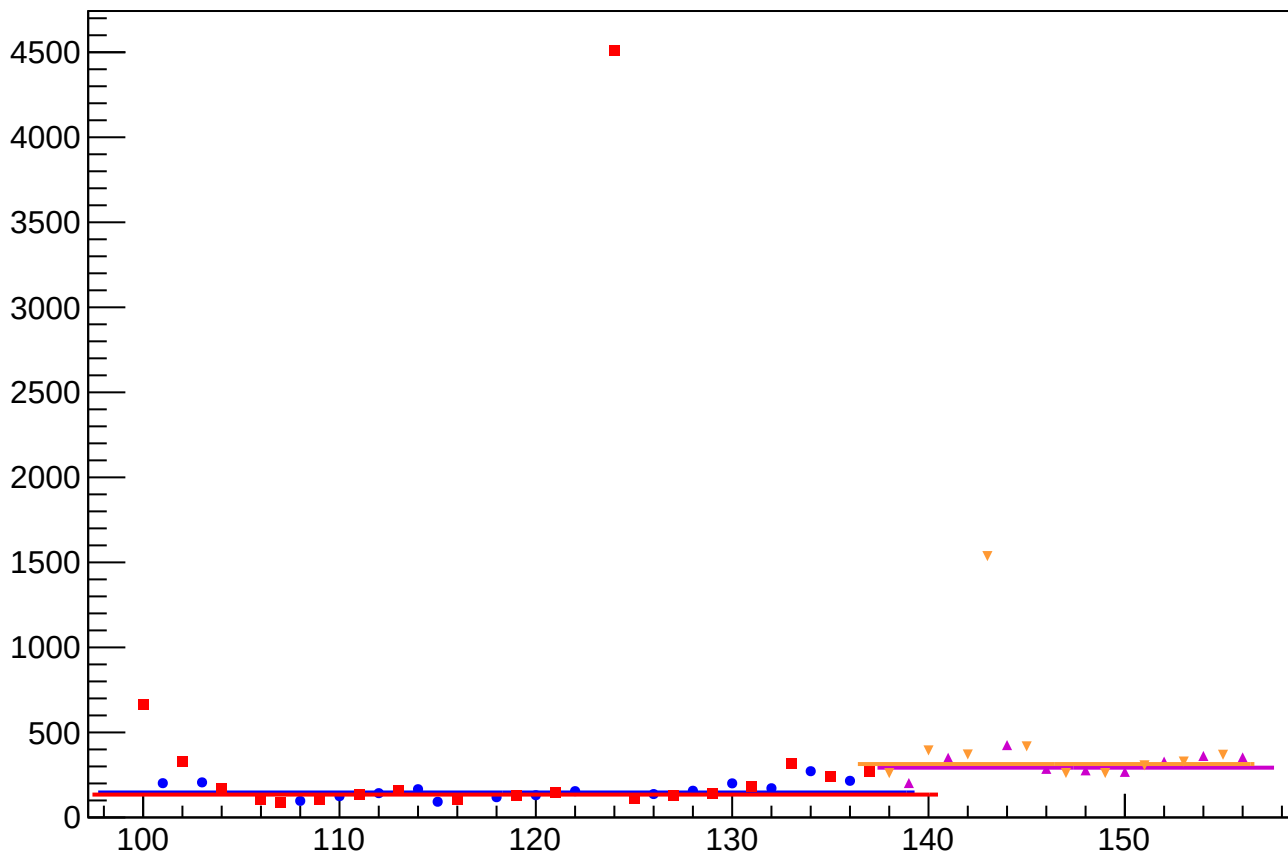
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.044+/-0.051 χ^2/NDF :22.0/24

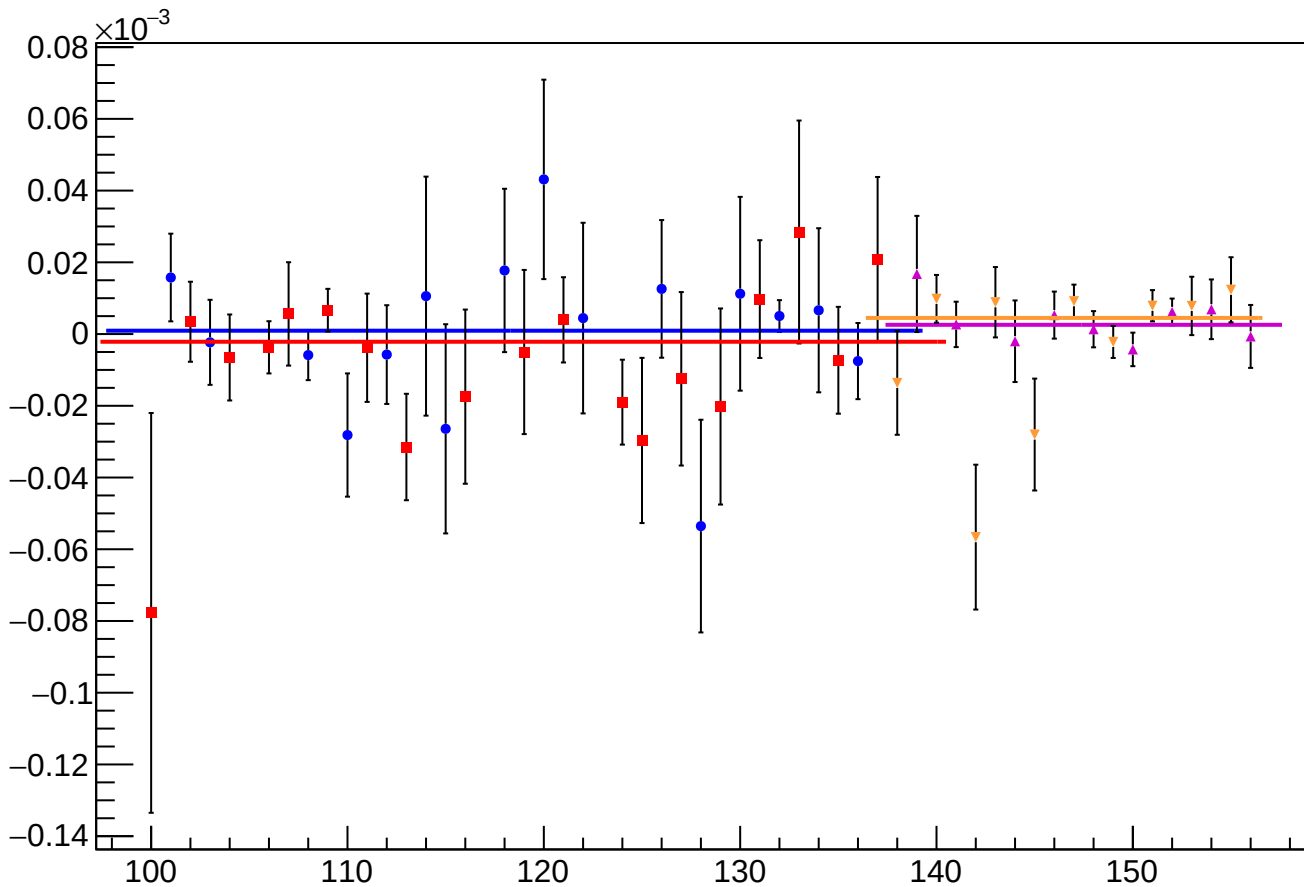
Out: -0.054+/-0.050 χ^2/NDF :32.0/28

All: -0.006+/-0.036 χ^2/NDF : 55.9/53

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



asym_atl1r2_dd_atl2r1_dd_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:20.7/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.0/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:4.6/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.8/18

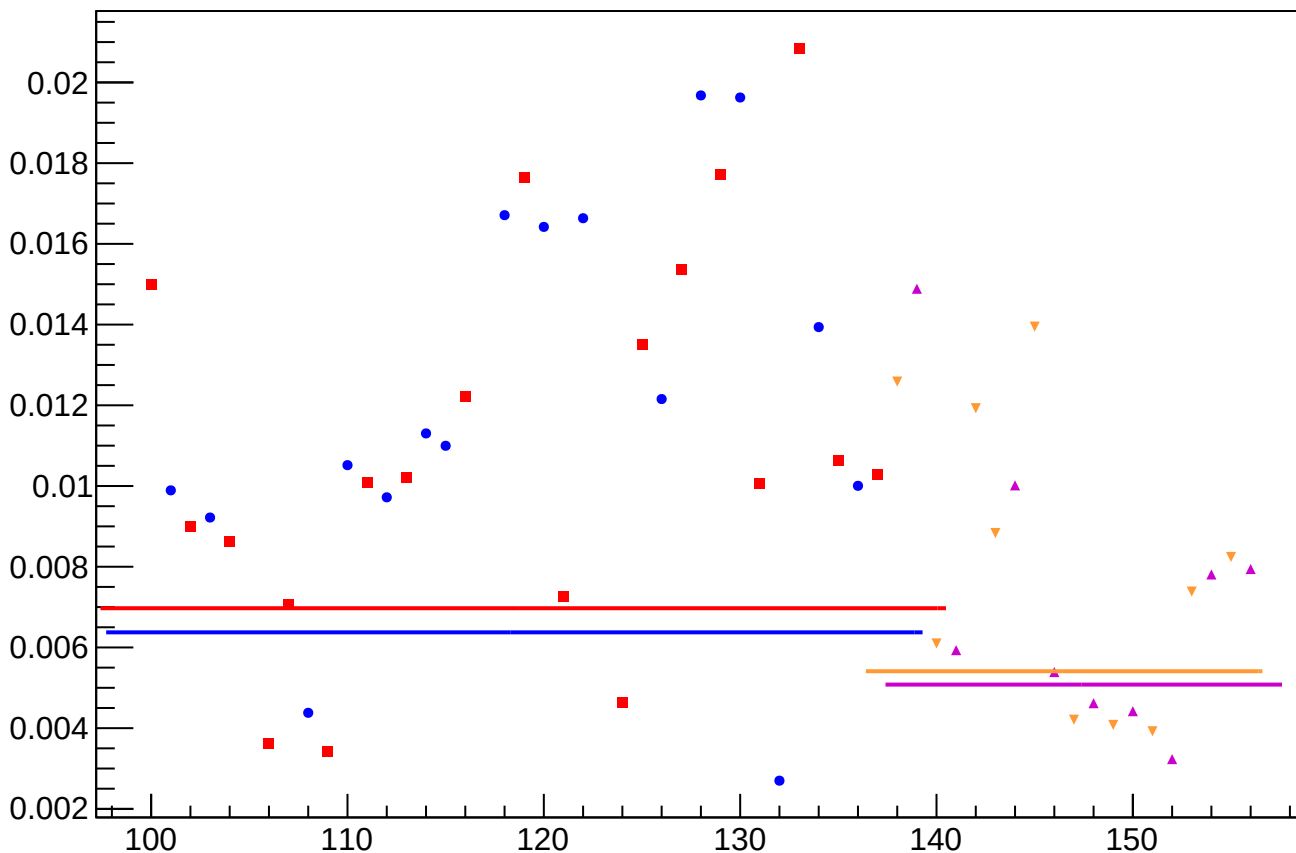
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:19.7/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:40.0/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 59.7/53

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: 0.005+/-0.000

χ^2/NDF : 2422742.1/9

Right Out: 0.007+/-0.000

χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000

χ^2/NDF : 2124835.7/8

Left: 0.005+/-0.000

χ^2/NDF : 4572924.6/18

Right: 0.007+/-0.000

χ^2/NDF : 8090163.7/34

In: 0.005+/-0.000

χ^2/NDF : 7029294.8/24

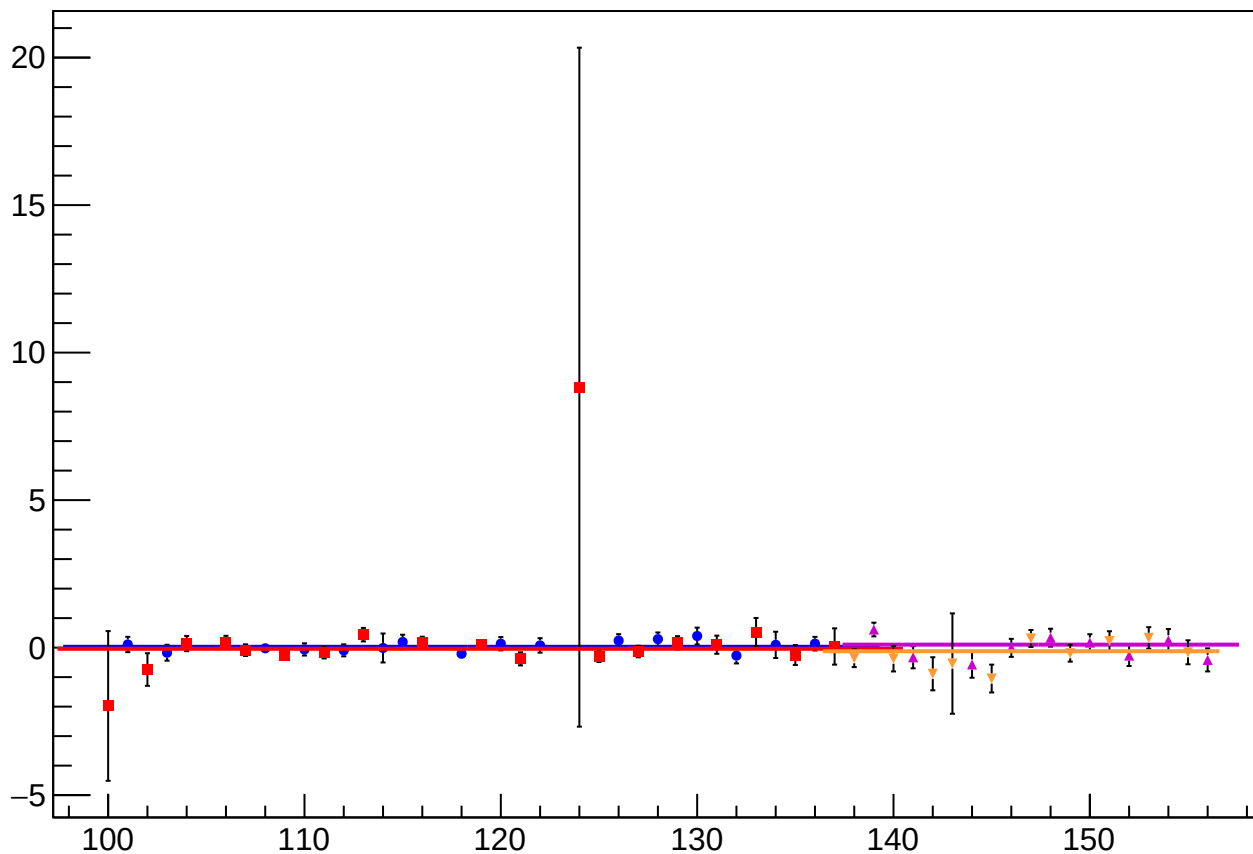
Out: 0.006+/-0.000

χ^2/NDF : 6190932.1/28

All: 0.006+/-0.000

χ^2/NDF : 13284405.7/53

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.122 ± 0.119 $\chi^2/\text{NDF}: 11.6/9$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.101 ± 0.108 $\chi^2/\text{NDF}: 12.1/8$

Left: -0.000 ± 0.080 $\chi^2/\text{NDF}: 25.7/18$

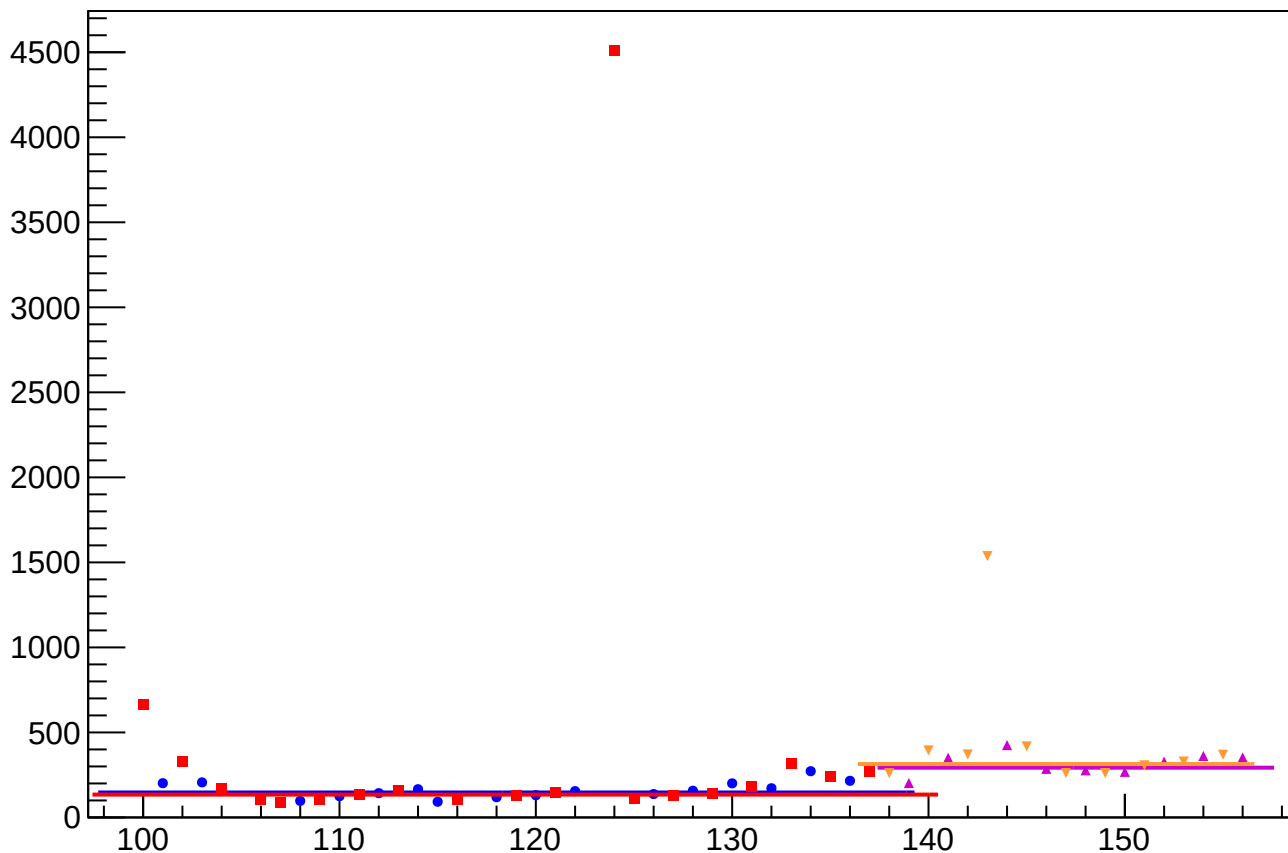
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.044 ± 0.051 $\chi^2/\text{NDF}: 22.0/24$

Out: -0.054 ± 0.050 $\chi^2/\text{NDF}: 32.0/28$

All: -0.006 ± 0.036 $\chi^2/\text{NDF}: 55.9/53$

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: 314.099+/-0.084 χ^2/NDF : 1457814.6/9

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 292.726+/-0.076 χ^2/NDF : 676155.9/8

Left: 302.417+/-0.056 χ^2/NDF : 2169478.0/18

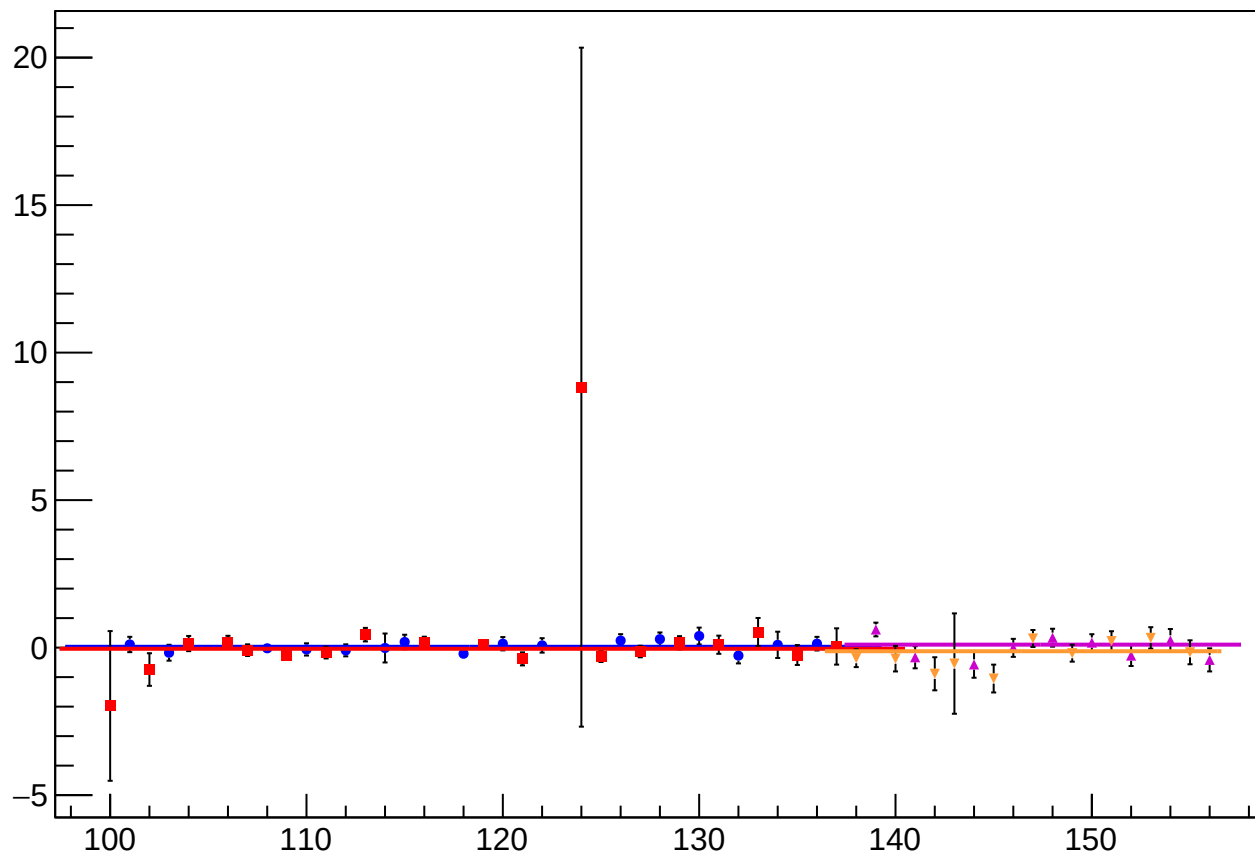
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 179.223+/-0.036 χ^2/NDF : 4513761.5/24

Out: 166.087+/-0.035 χ^2/NDF : 6844296.6/28

All: 172.503+/-0.025 χ^2/NDF : 11426220.3/53

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.122+/-0.119 χ^2/NDF : 11.6/9

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.101+/-0.108 χ^2/NDF : 12.1/8

Left: -0.000+/-0.080 χ^2/NDF : 25.7/18

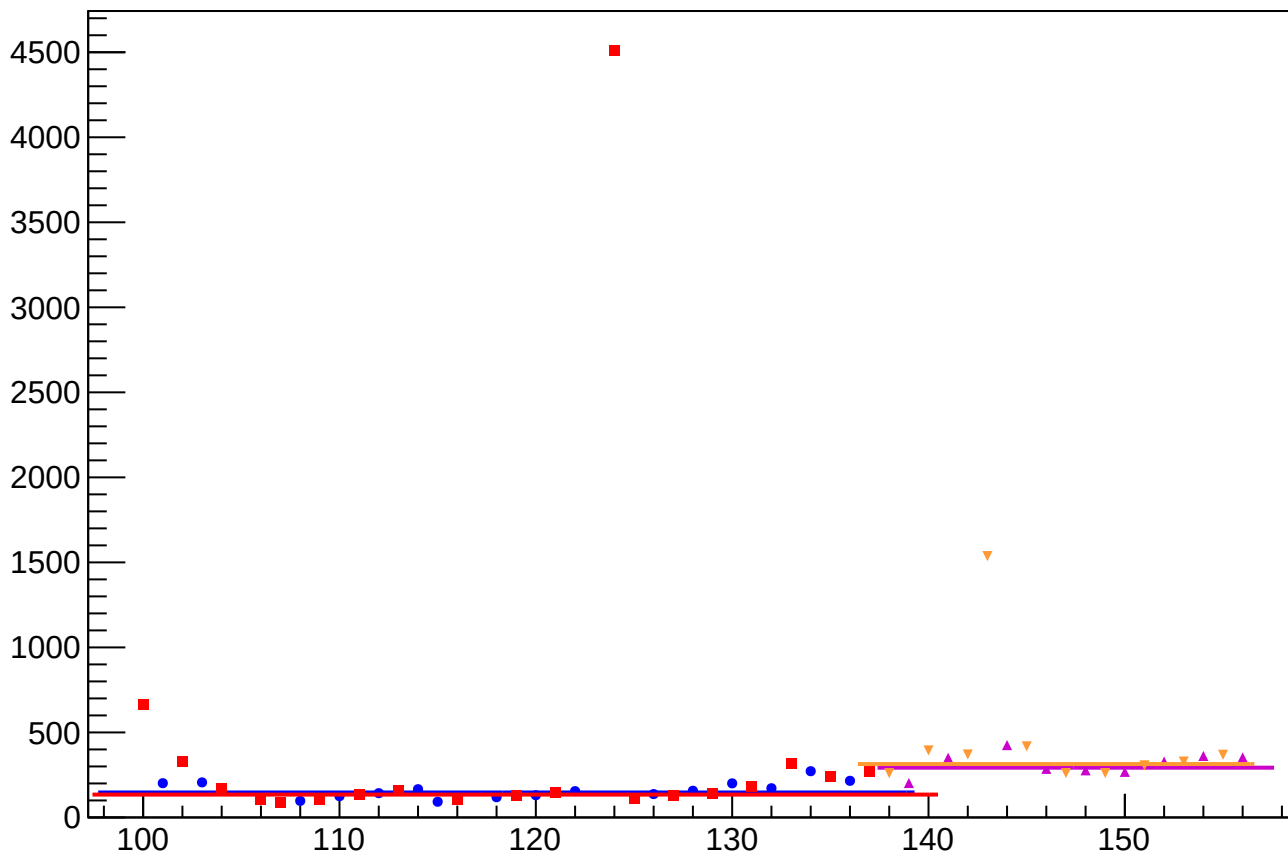
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.044+/-0.051 χ^2/NDF : 22.0/24

Out: -0.054+/-0.050 χ^2/NDF : 32.0/28

All: -0.006+/-0.036 χ^2/NDF : 55.9/53

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: 314.099+/-0.084 χ^2/NDF : 1457814.6/9

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 292.726+/-0.076 χ^2/NDF : 676155.9/8

Left: 302.417+/-0.056 χ^2/NDF : 2169478.0/18

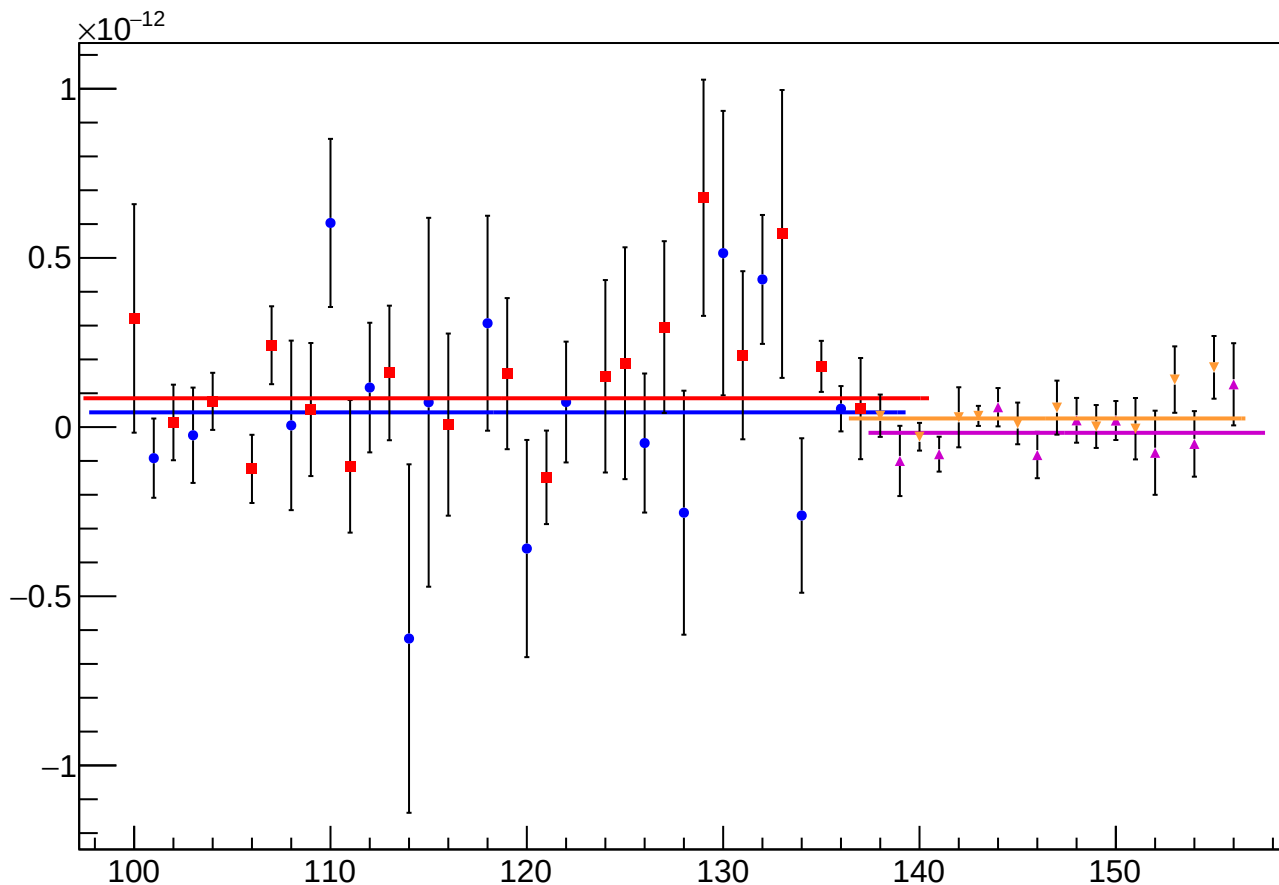
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 179.223+/-0.036 χ^2/NDF : 4513761.5/24

Out: 166.087+/-0.035 χ^2/NDF : 6844296.6/28

All: 172.503+/-0.025 χ^2/NDF : 11426220.3/53

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 : 6.3/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 18.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 15.6/18

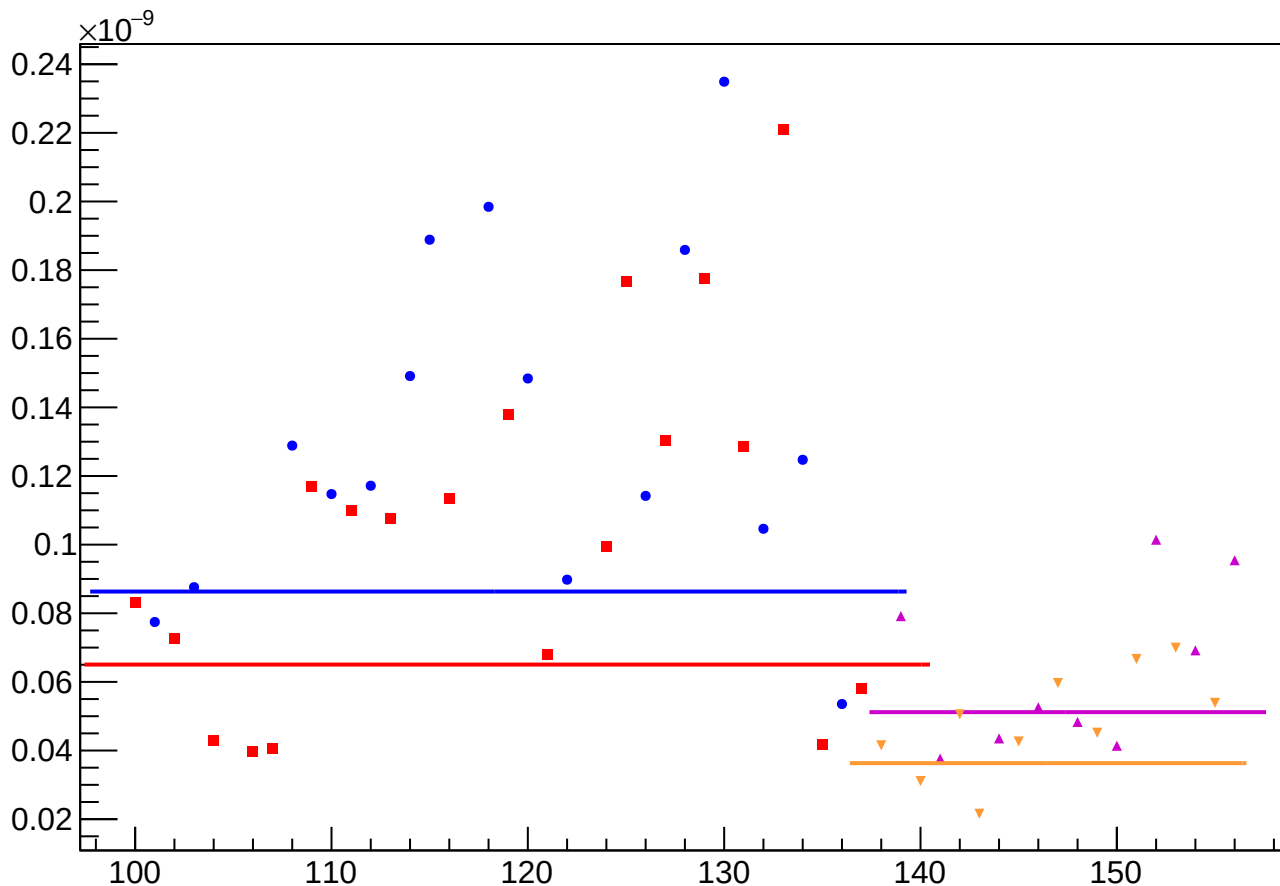
Right: 0.000 ± 0.000 χ^2/NDF : 37.8/34

In: -0.000 ± 0.000 χ^2/NDF : 27.8/24

Out: 0.000 ± 0.000 χ^2/NDF : 26.9/28

All: 0.000 ± 0.000 χ^2/NDF : 57.2/53

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 :1354172.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1043638.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2895747.6/18

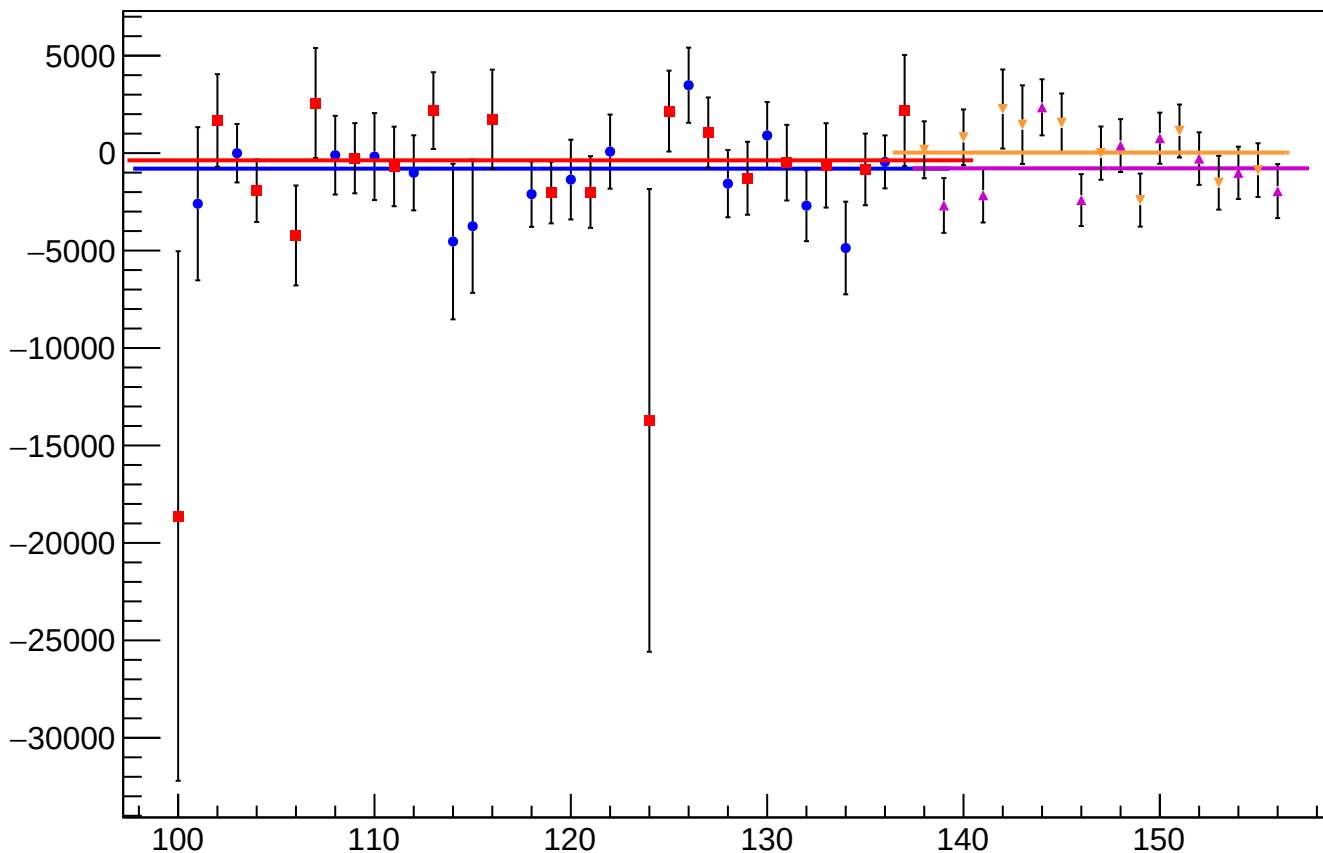
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF :3641414.7/24

Out: 0.000+/-0.000 χ^2/NDF :4620015.8/28

All: 0.000+/-0.000 χ^2/NDF : 9109676.7/53

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -797.285 ± 487.453 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 25.755 ± 468.741 $\chi^2/\text{NDF}: 8.6/9$

Right Out: -370.010 ± 485.826 $\chi^2/\text{NDF}: 15.6/18$

Left In: -780.755 ± 455.484 $\chi^2/\text{NDF}: 12.1/8$

Left: -389.066 ± 326.662 $\chi^2/\text{NDF}: 22.2/18$

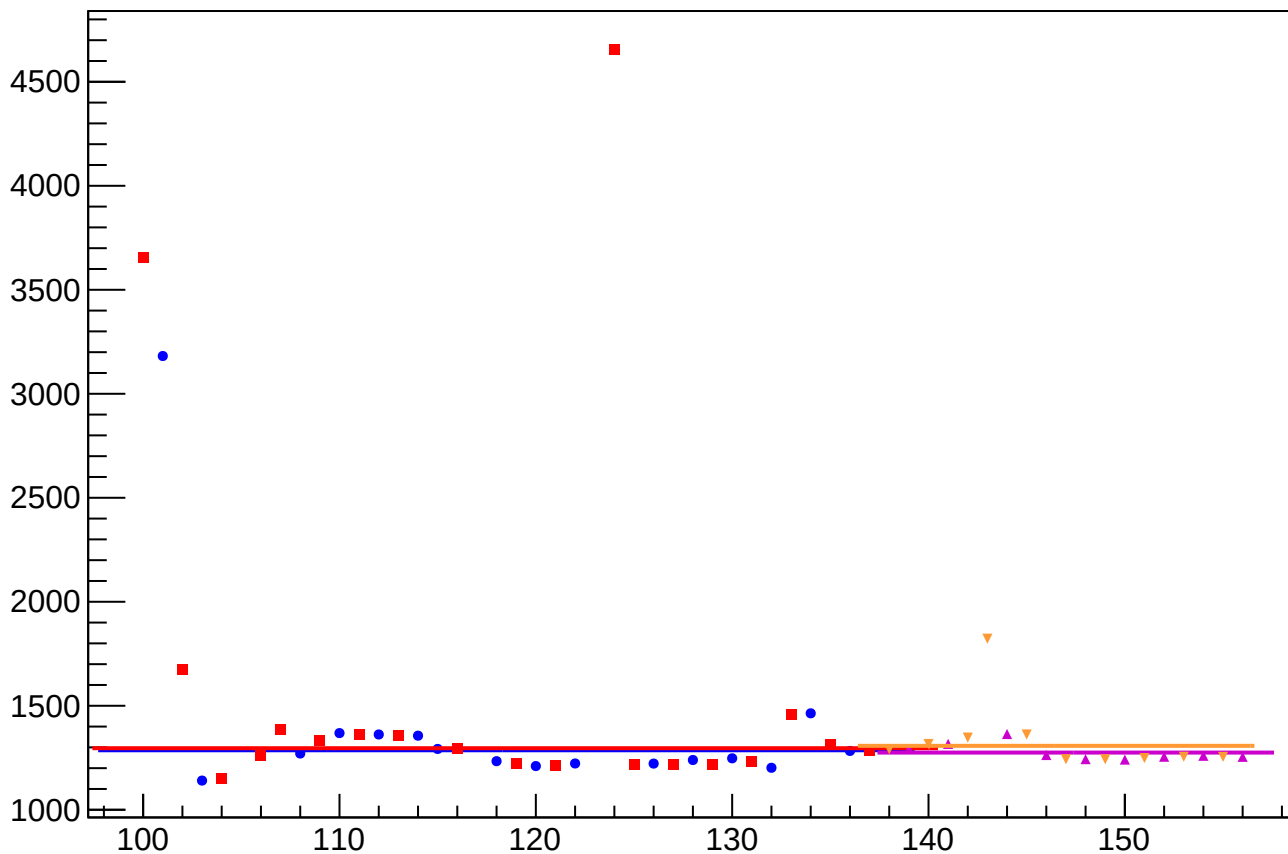
Right: -582.933 ± 344.105 $\chi^2/\text{NDF}: 29.4/34$

In: -788.460 ± 332.804 $\chi^2/\text{NDF}: 25.5/24$

Out: -165.047 ± 337.328 $\chi^2/\text{NDF}: 24.6/28$

All: -480.961 ± 236.911 $\chi^2/\text{NDF}: 51.8/53$

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: 1307.359 $\pm$ 0.331 χ^2 /NDF: 152603.2/9

Right Out: 1295.943 $\pm$ 0.344 χ^2 /NDF: 328069.9/18

Left In: 1274.973 $\pm$ 0.322 χ^2 /NDF: 13526.7/8

Left: 1290.702 $\pm$ 0.231 χ^2 /NDF: 171040.2/18

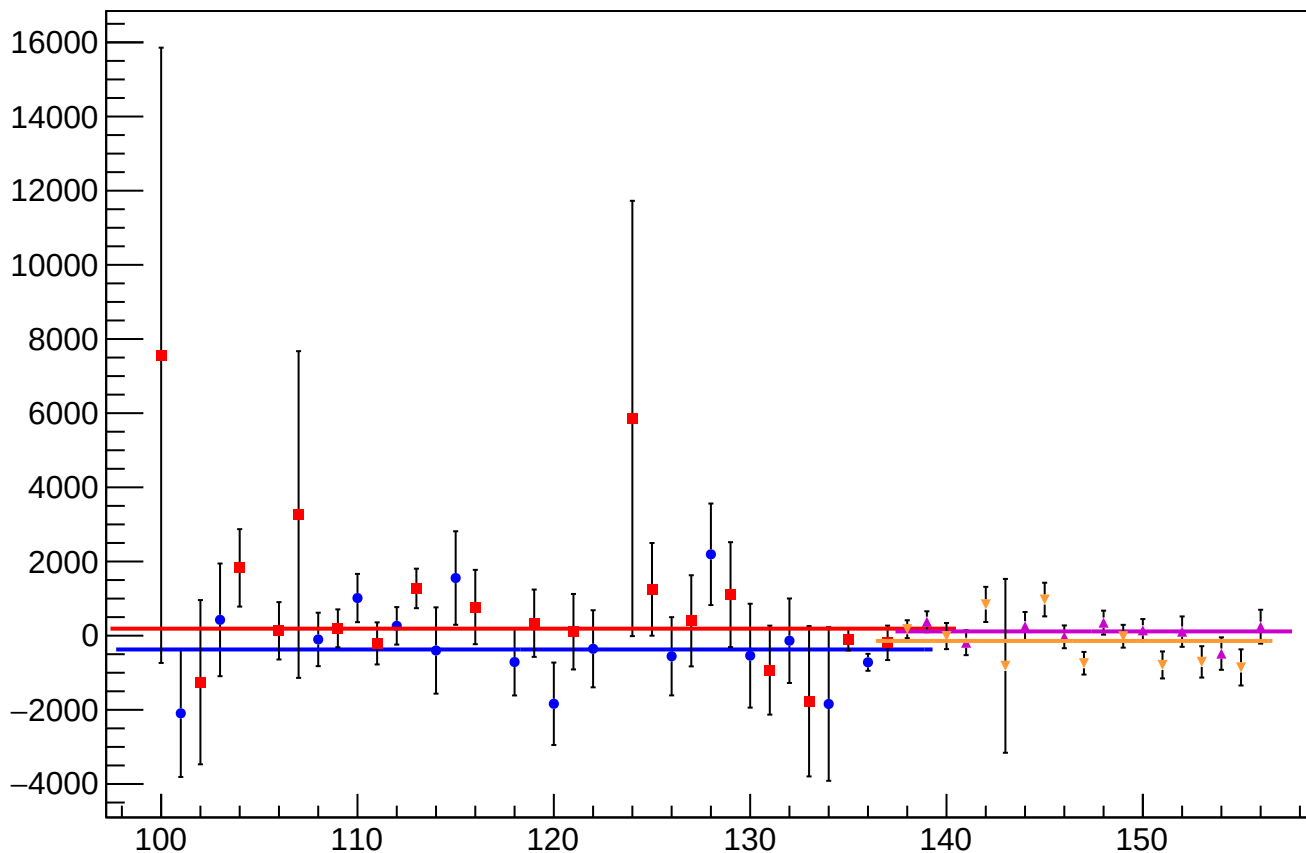
Right: 1291.036 $\pm$ 0.243 χ^2 /NDF: 846606.2/34

In: 1280.159 $\pm$ 0.235 χ^2 /NDF: 532209.7/24

Out: 1301.855 $\pm$ 0.239 χ^2 /NDF: 481245.0/28

All: 1290.860 $\pm$ 0.168 χ^2 /NDF: 1017647.4/53

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: -142.165+/-116.781 χ^2/NDF : 23.5/9

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 114.339+/-115.410 χ^2/NDF : 4.5/8

Left: -12.398+/-82.088 χ^2/NDF : 30.4/18

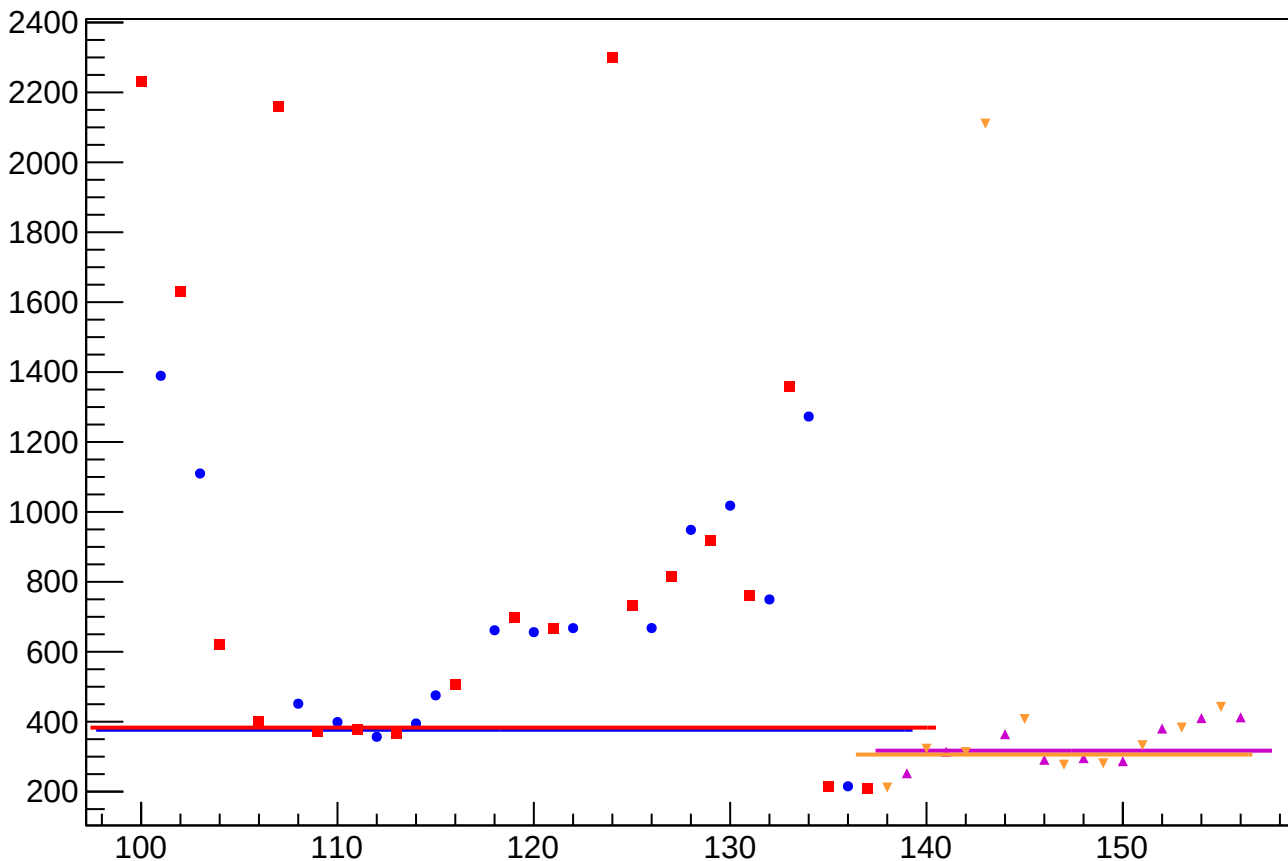
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -41.437+/-95.164 χ^2/NDF : 28.4/24

Out: -35.648+/-96.180 χ^2/NDF : 40.7/28

All: -38.573+/-67.647 χ^2/NDF : 69.1/53

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893 $\pm$ 0.119 χ^2/NDF : 4190194.7/15

Left Out: 305.954 $\pm$ 0.083 χ^2/NDF :1861790.7/9

Right Out: 383.074 $\pm$ 0.120 χ^2/NDF : 4054121.5/18

Left In: 317.091 $\pm$ 0.082 χ^2/NDF :402607.9/8

Left: 311.589 $\pm$ 0.058 χ^2/NDF : 2273600.9/18

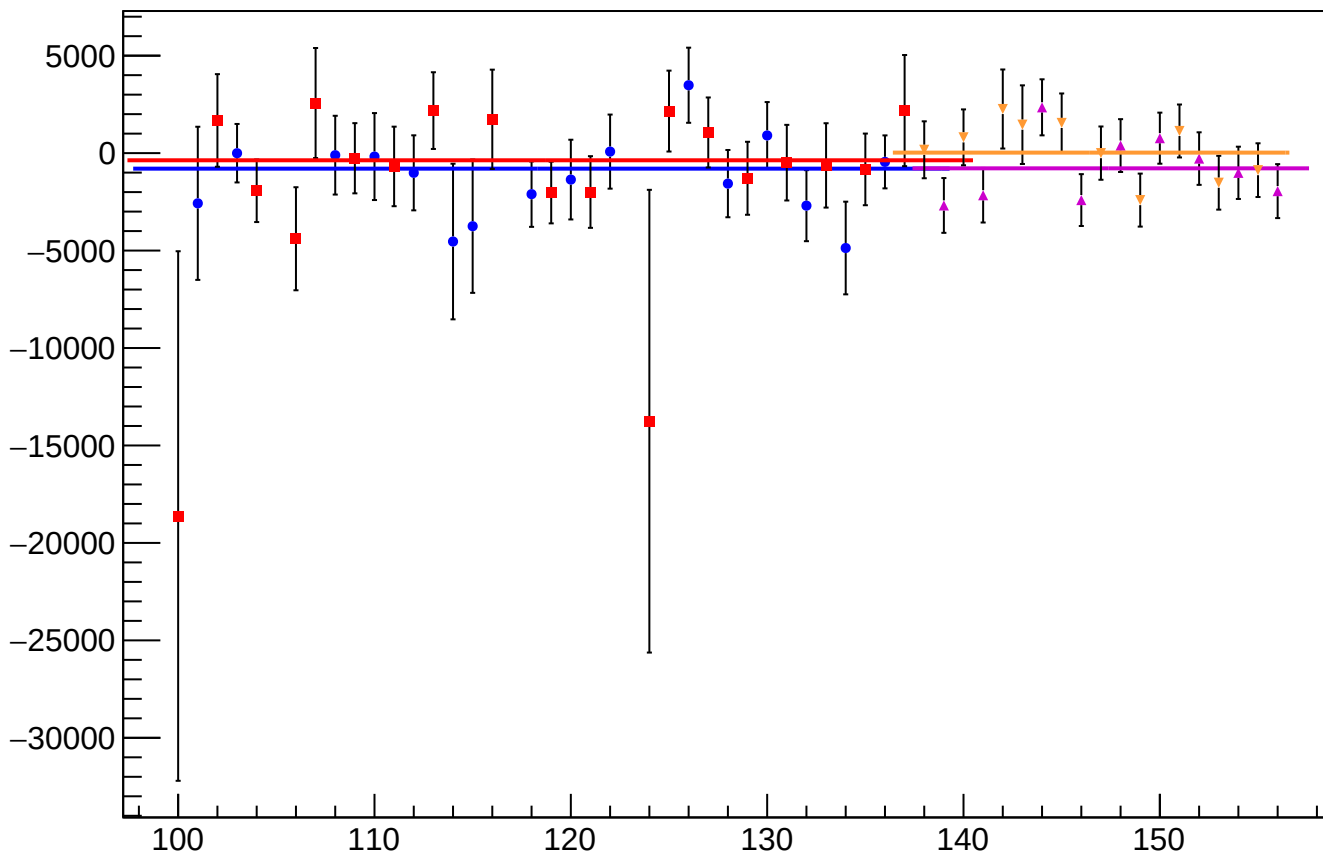
Right: 379.958 $\pm$ 0.084 χ^2/NDF : 8245655.7/34

In: 336.233 $\pm$ 0.067 χ^2/NDF :4764684.8/24

Out: 330.763 $\pm$ 0.068 χ^2/NDF :6196492.4/28

All: 333.527 $\pm$ 0.048 χ^2/NDF : 10964445.6/53

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883 $\pm$ 487.454 χ^2 /NDF: 13.4/15

Left Out: 25.770 $\pm$ 468.741 χ^2 /NDF:8.6/9

Right Out: -367.476 $\pm$ 486.348 χ^2 /NDF: 15.7/18

Left In: -780.723 $\pm$ 455.484 χ^2 /NDF:12.1/8

Left: -389.042 $\pm$ 326.662 χ^2 /NDF: 22.2/18

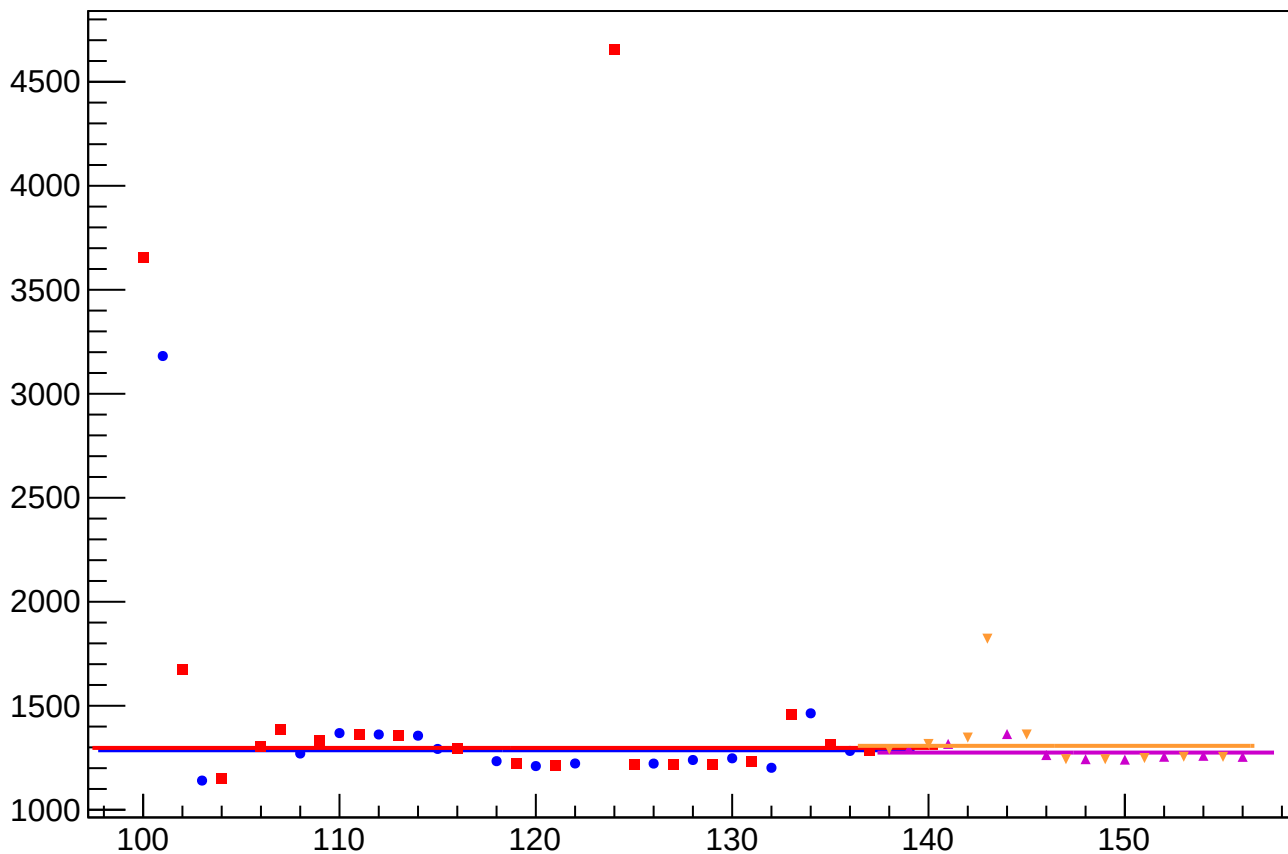
Right: -581.692 $\pm$ 344.290 χ^2 /NDF: 29.5/34

In: -788.256 $\pm$ 332.804 χ^2 /NDF:25.5/24

Out: -163.606 $\pm$ 337.503 χ^2 /NDF:24.6/28

All: -480.309 $\pm$ 236.972 χ^2 /NDF: 51.8/53

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518128.4/15

Left Out: 1307.359 $\pm$ 0.331 χ^2 /NDF: 152603.2/9

Right Out: 1297.394 $\pm$ 0.344 χ^2 /NDF: 327741.7/18

Left In: 1274.973 $\pm$ 0.322 χ^2 /NDF: 13526.7/8

Left: 1290.702 $\pm$ 0.231 χ^2 /NDF: 171040.2/18

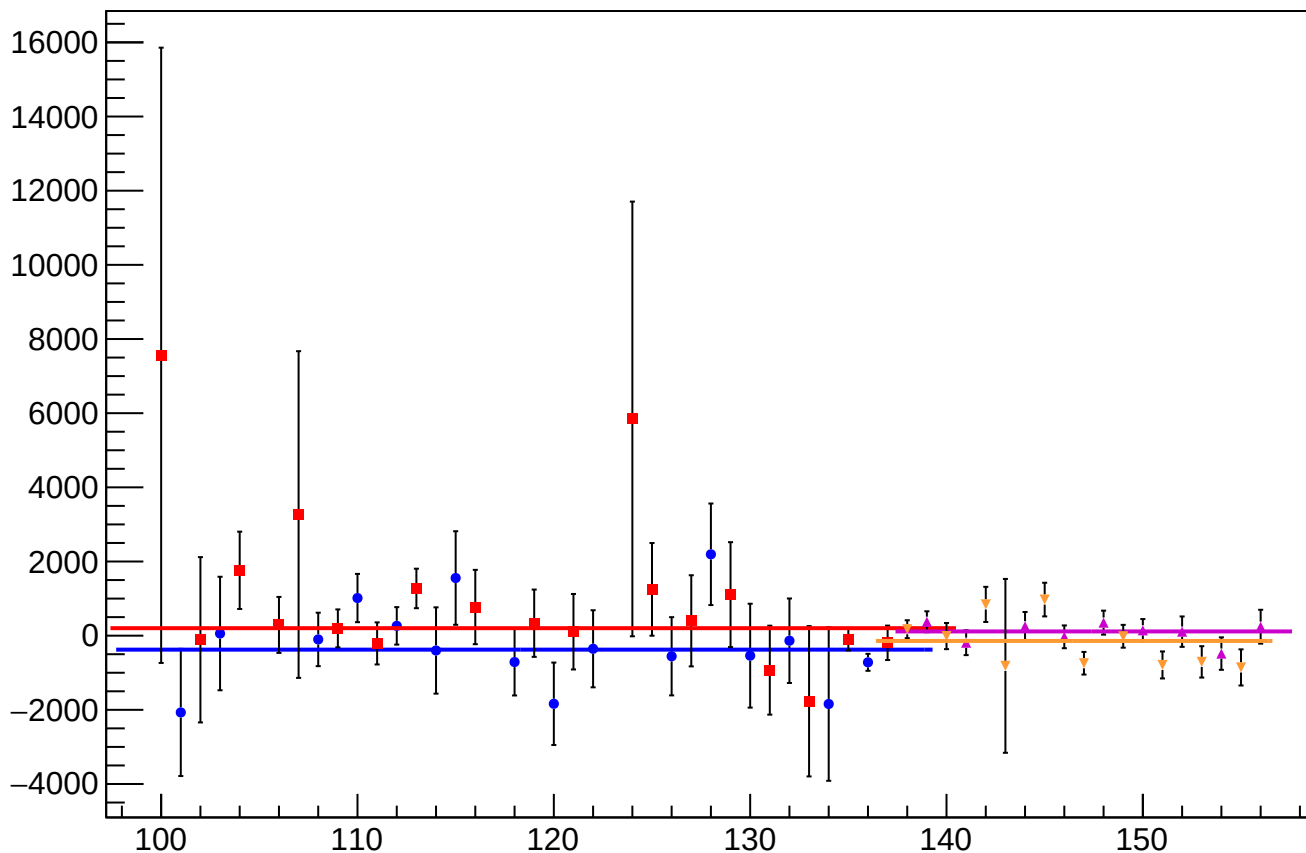
Right: 1291.758 $\pm$ 0.243 χ^2 /NDF: 846408.4/34

In: 1280.158 $\pm$ 0.235 χ^2 /NDF: 532211.1/24

Out: 1302.560 $\pm$ 0.239 χ^2 /NDF: 480780.2/28

All: 1291.202 $\pm$ 0.168 χ^2 /NDF: 1017458.5/53

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: -142.182 $\pm$ 116.785 χ^2 /NDF:23.5/9

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 114.356 $\pm$ 115.410 χ^2 /NDF:4.5/8

Left: -12.395 $\pm$ 82.089 χ^2 /NDF: 30.4/18

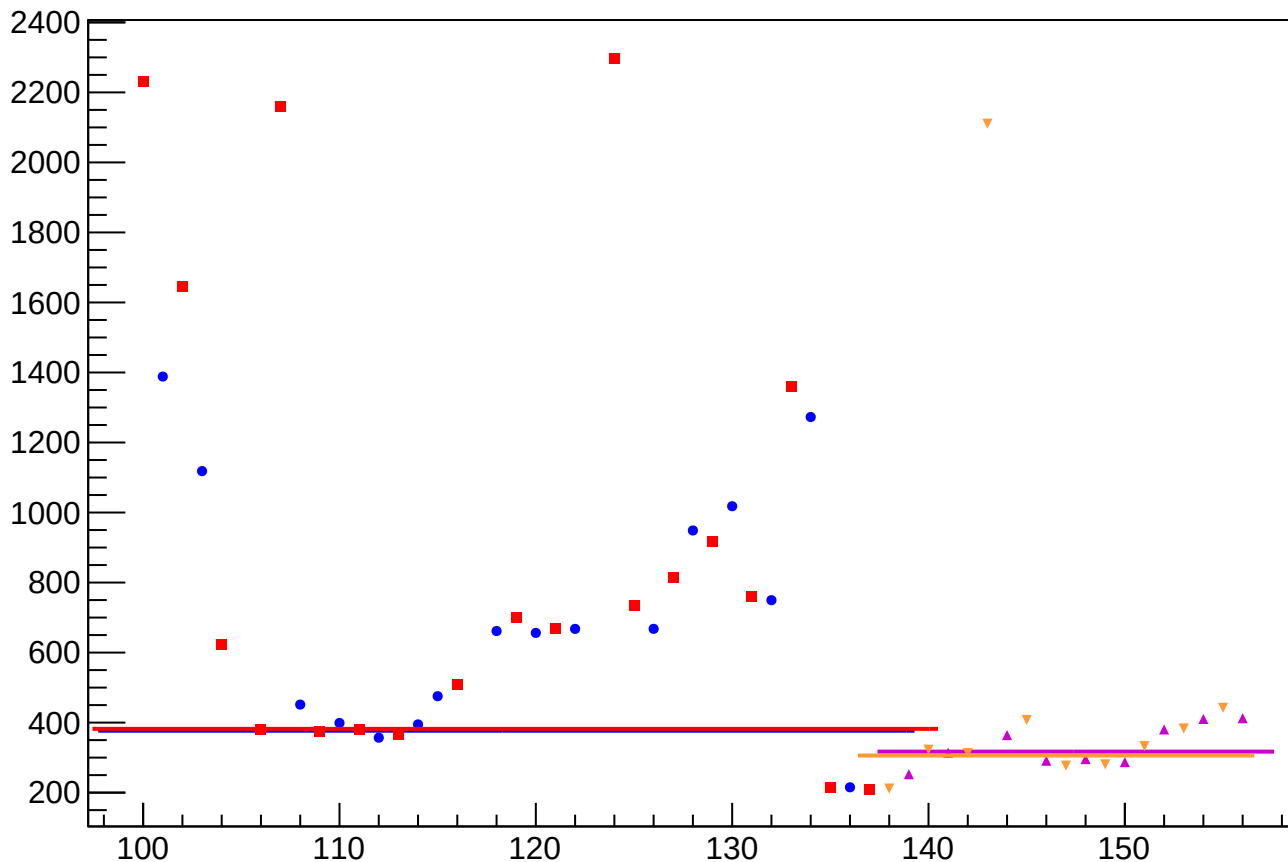
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -42.823 $\pm$ 95.167 χ^2 /NDF:28.2/24

Out: -31.234 $\pm$ 96.146 χ^2 /NDF:40.3/28

All: -37.088 $\pm$ 67.637 χ^2 /NDF: 68.6/53

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: 305.964+/-0.083 χ^2/NDF : 1861726.1/9

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 317.091+/-0.082 χ^2/NDF : 402679.3/8

Left: 311.593+/-0.058 χ^2/NDF : 2273589.8/18

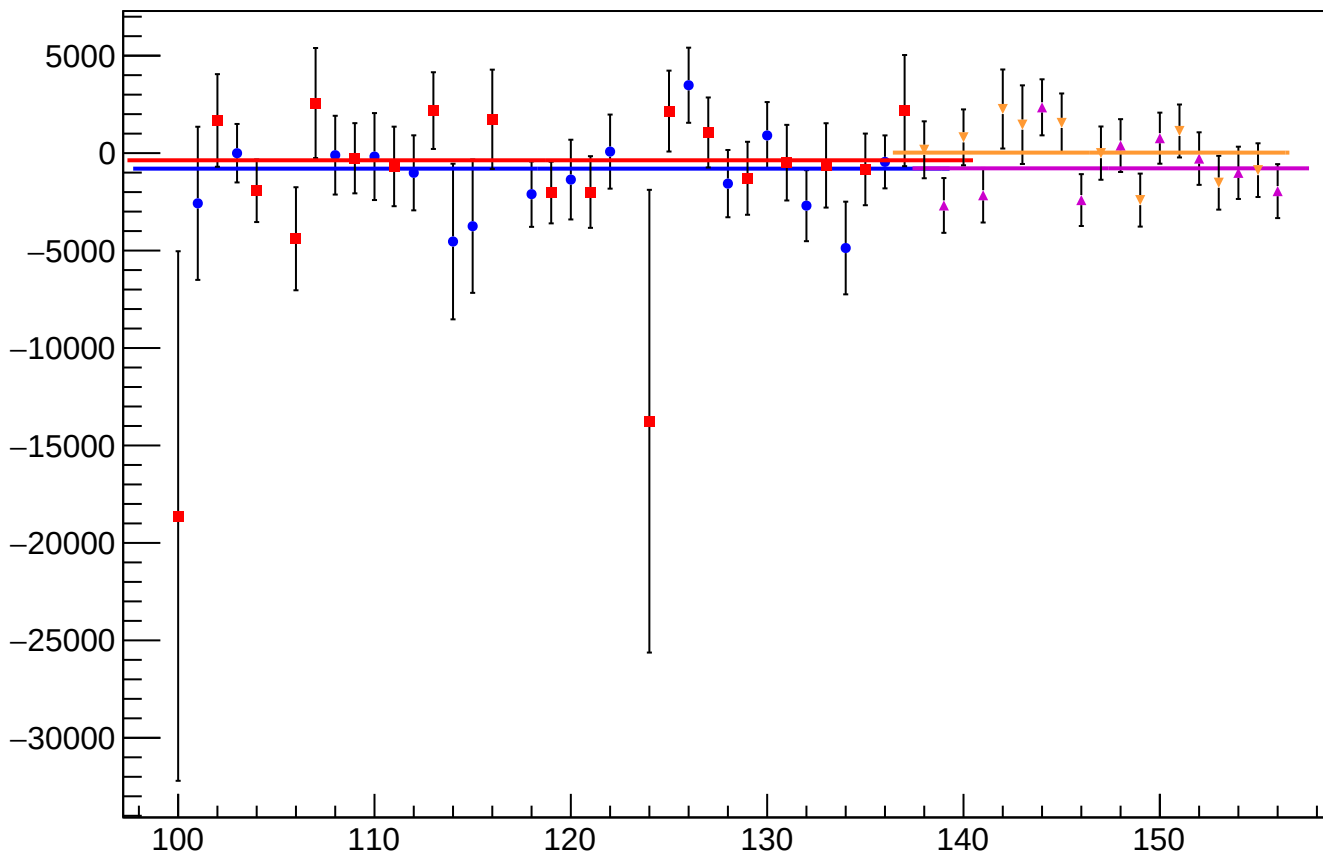
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 336.227+/-0.067 χ^2/NDF : 4767817.2/24

Out: 330.508+/-0.068 χ^2/NDF : 6195482.6/28

All: 333.397+/-0.048 χ^2/NDF : 10966873.7/53

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883 ± 487.454 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 25.770 ± 468.741 $\chi^2/\text{NDF}: 8.6/9$

Right Out: -367.476 ± 486.348 $\chi^2/\text{NDF}: 15.7/18$

Left In: -780.723 ± 455.484 $\chi^2/\text{NDF}: 12.1/8$

Left: -389.042 ± 326.662 $\chi^2/\text{NDF}: 22.2/18$

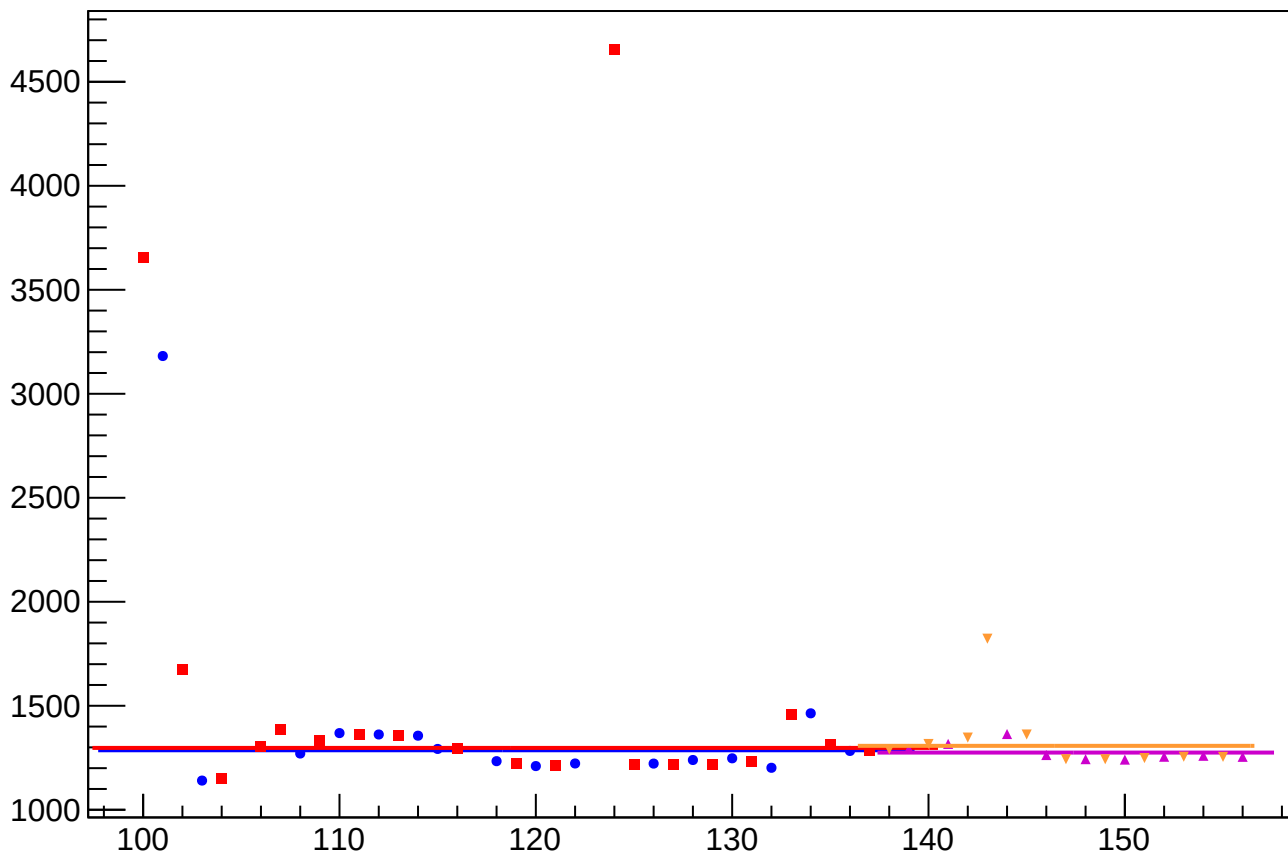
Right: -581.692 ± 344.290 $\chi^2/\text{NDF}: 29.5/34$

In: -788.256 ± 332.804 $\chi^2/\text{NDF}: 25.5/24$

Out: -163.606 ± 337.503 $\chi^2/\text{NDF}: 24.6/28$

All: -480.309 ± 236.972 $\chi^2/\text{NDF}: 51.8/53$

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: 1307.359+/-0.331 χ^2/NDF :152603.2/9

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1274.973+/-0.322 χ^2/NDF :13526.7/8

Left: 1290.702+/-0.231 χ^2/NDF : 171040.2/18

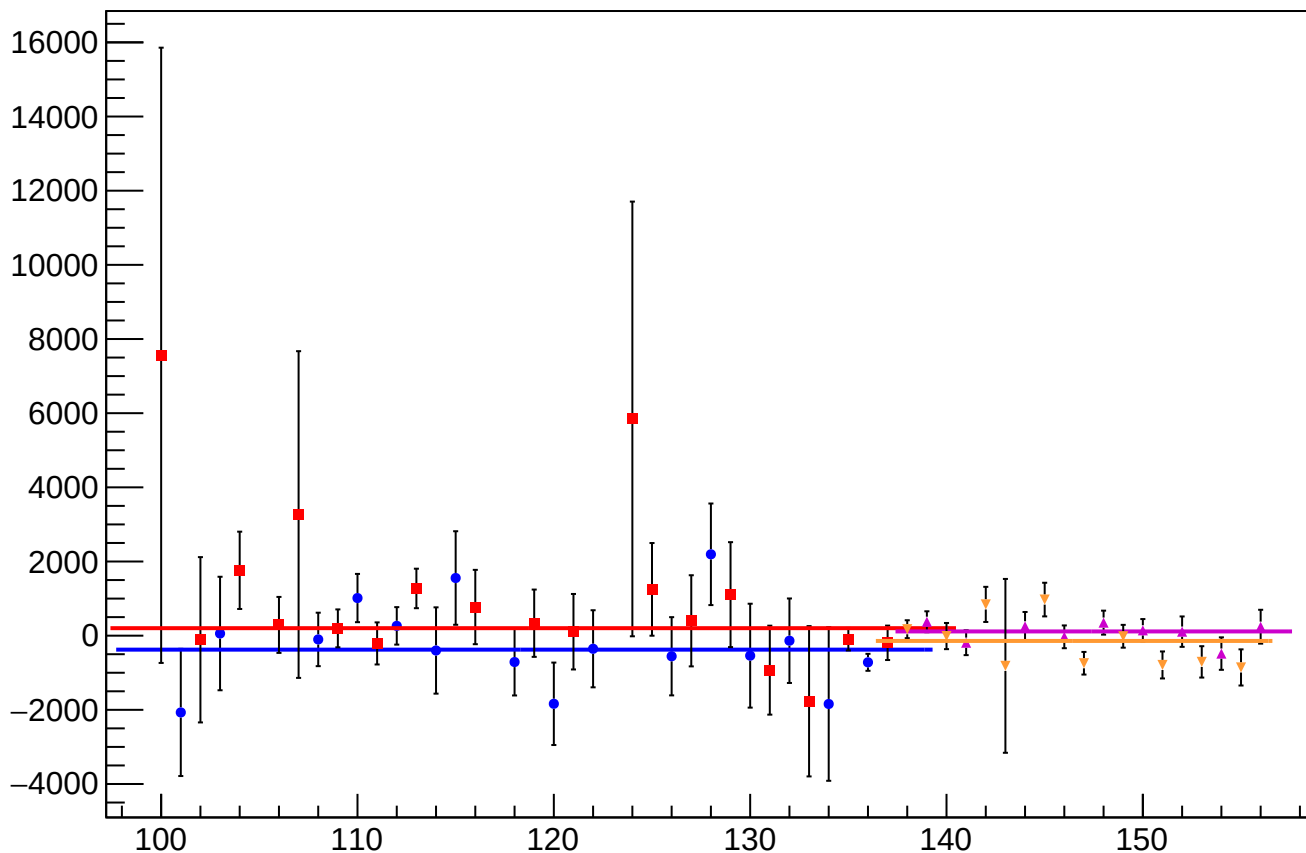
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1280.158+/-0.235 χ^2/NDF :532211.1/24

Out: 1302.560+/-0.239 χ^2/NDF :480780.2/28

All: 1291.202+/-0.168 χ^2/NDF : 1017458.5/53

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: -142.182 $\pm$ 116.785 χ^2 /NDF:23.5/9

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 114.356 $\pm$ 115.410 χ^2 /NDF:4.5/8

Left: -12.395 $\pm$ 82.089 χ^2 /NDF: 30.4/18

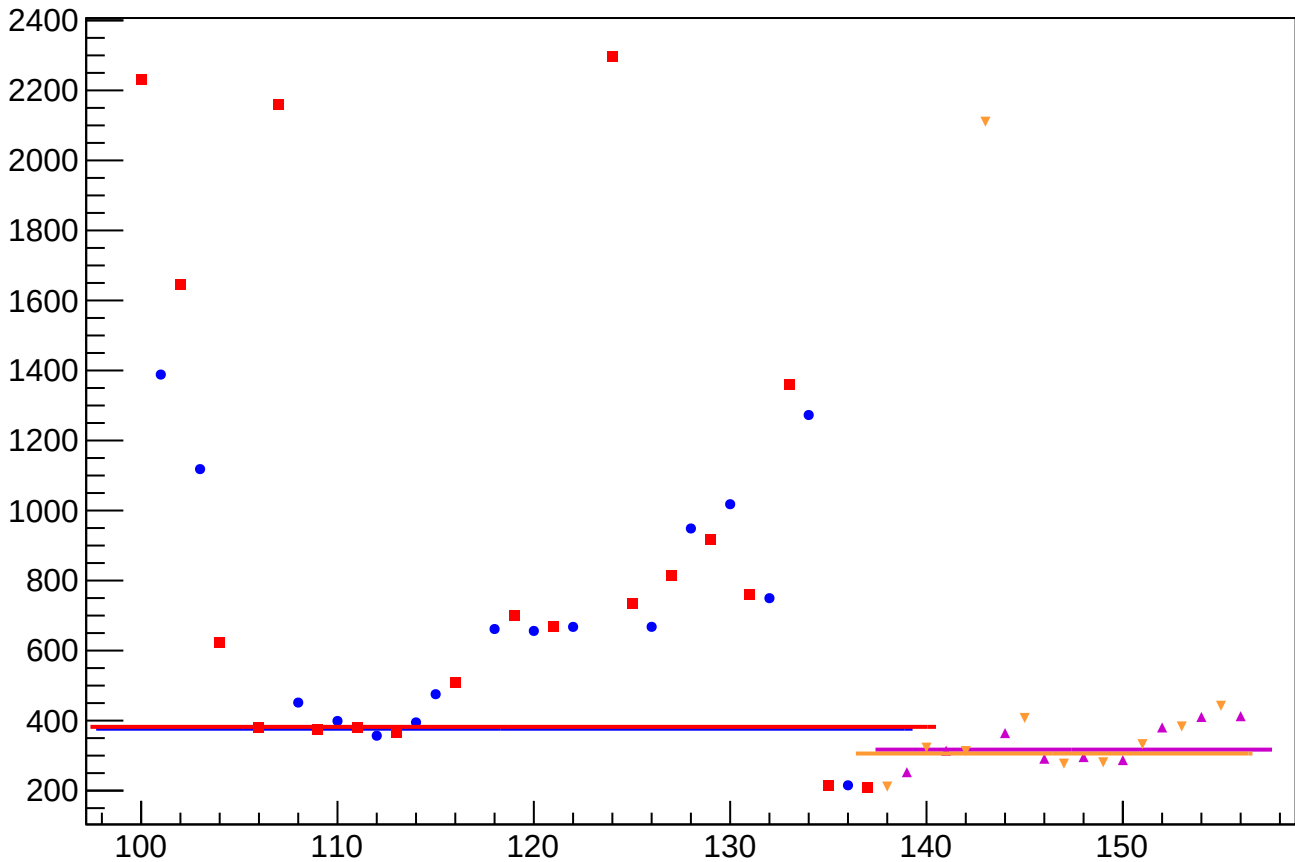
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -42.823 $\pm$ 95.167 χ^2 /NDF:28.2/24

Out: -31.234 $\pm$ 96.146 χ^2 /NDF:40.3/28

All: -37.088 $\pm$ 67.637 χ^2 /NDF: 68.6/53

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: 305.964+/-0.083 χ^2/NDF : 1861726.1/9

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 317.091+/-0.082 χ^2/NDF : 402679.3/8

Left: 311.593+/-0.058 χ^2/NDF : 2273589.8/18

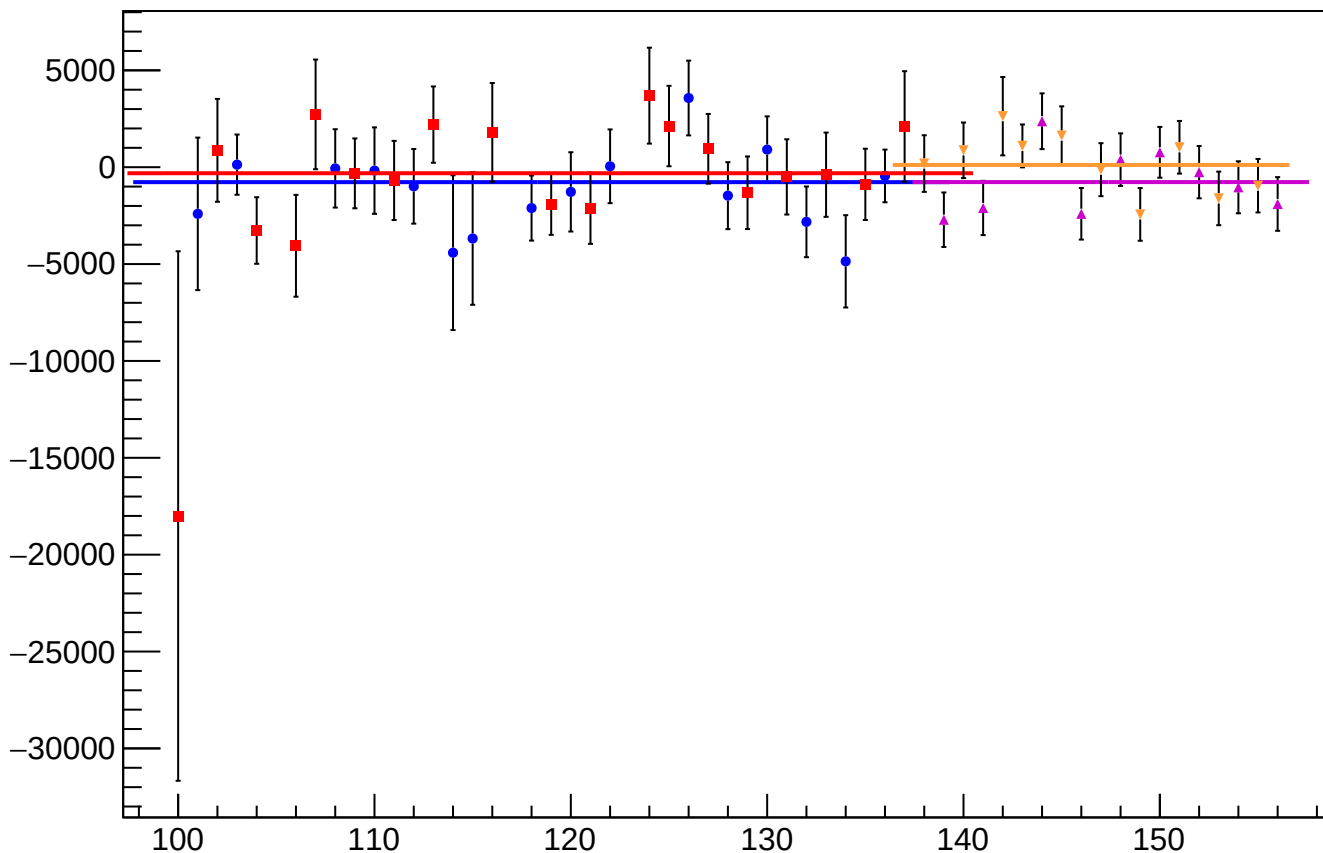
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 336.227+/-0.067 χ^2/NDF : 4767817.2/24

Out: 330.508+/-0.068 χ^2/NDF : 6195482.6/28

All: 333.397+/-0.048 χ^2/NDF : 10966873.7/53

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: 115.556 ± 442.076 χ^2/NDF : 9.8/9

Right Out: -311.418 ± 482.642 χ^2/NDF : 17.9/18

Left In: -768.448 ± 455.848 χ^2/NDF : 12.0/8

Left: -312.891 ± 317.352 χ^2/NDF : 23.8/18

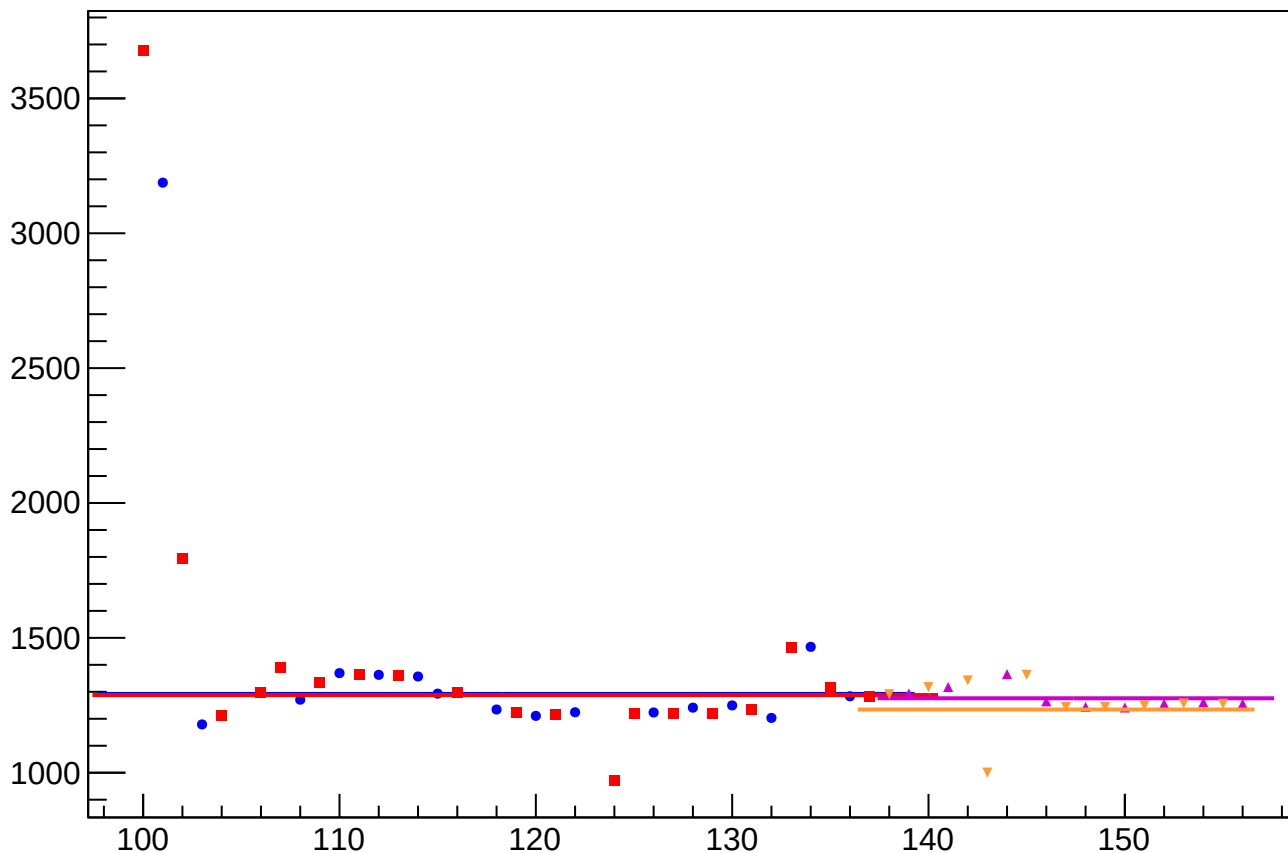
Right: -538.165 ± 343.714 χ^2/NDF : 32.0/34

In: -769.865 ± 333.628 χ^2/NDF : 25.6/24

Out: -79.236 ± 325.995 χ^2/NDF : 28.1/28

All: -416.559 ± 233.165 χ^2/NDF : 56.0/53

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: 1234.214+/-0.313 χ^2/NDF : 120601.0/9

Right Out: 1287.988+/-0.341 χ^2/NDF : 209208.8/18

Left In: 1275.984+/-0.322 χ^2/NDF : 13586.9/8

Left: 1254.459+/-0.224 χ^2/NDF : 142842.0/18

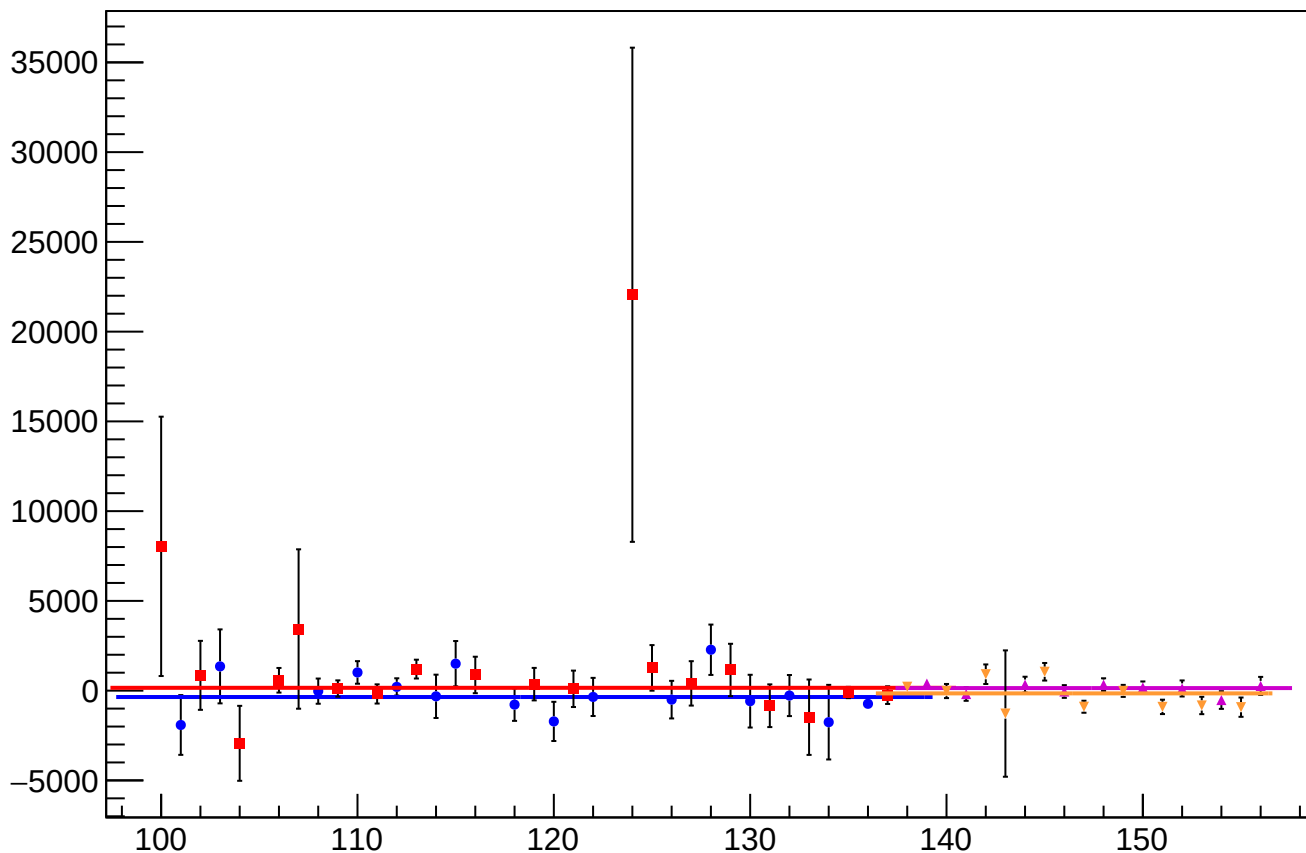
Right: 1289.984+/-0.243 χ^2/NDF : 718684.5/34

In: 1283.439+/-0.236 χ^2/NDF : 524144.9/24

Out: 1258.747+/-0.231 χ^2/NDF : 343310.7/28

All: 1270.807+/-0.165 χ^2/NDF : 873060.0/53

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.971 χ^2/NDF : 18.4/15

Left Out: -152.579 ± 126.272 χ^2/NDF : 25.0/9

Right Out: 157.924 ± 169.665 χ^2/NDF : 15.8/18

Left In: 142.761 ± 125.581 χ^2/NDF : 4.3/8

Left: -4.099 ± 89.043 χ^2/NDF : 32.1/18

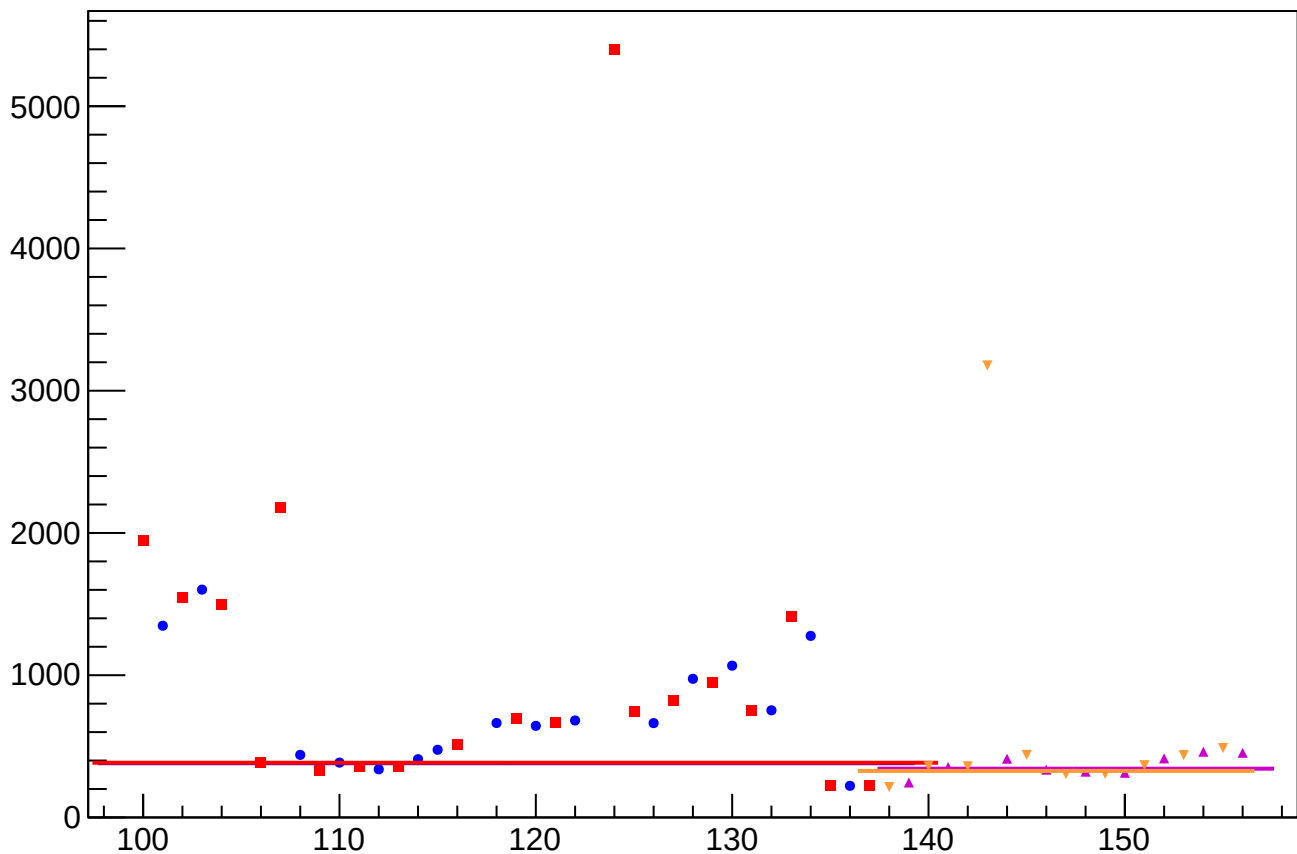
Right: -98.189 ± 120.079 χ^2/NDF : 38.8/34

In: -33.089 ± 101.003 χ^2/NDF : 28.3/24

Out: -41.898 ± 101.297 χ^2/NDF : 43.0/28

All: -37.481 ± 71.524 χ^2/NDF : 71.3/53

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: 327.132+/-0.089 χ^2/NDF : 2194151.6/9

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 342.867+/-0.089 χ^2/NDF : 590351.1/8

Left: 335.043+/-0.063 χ^2/NDF : 2800116.3/18

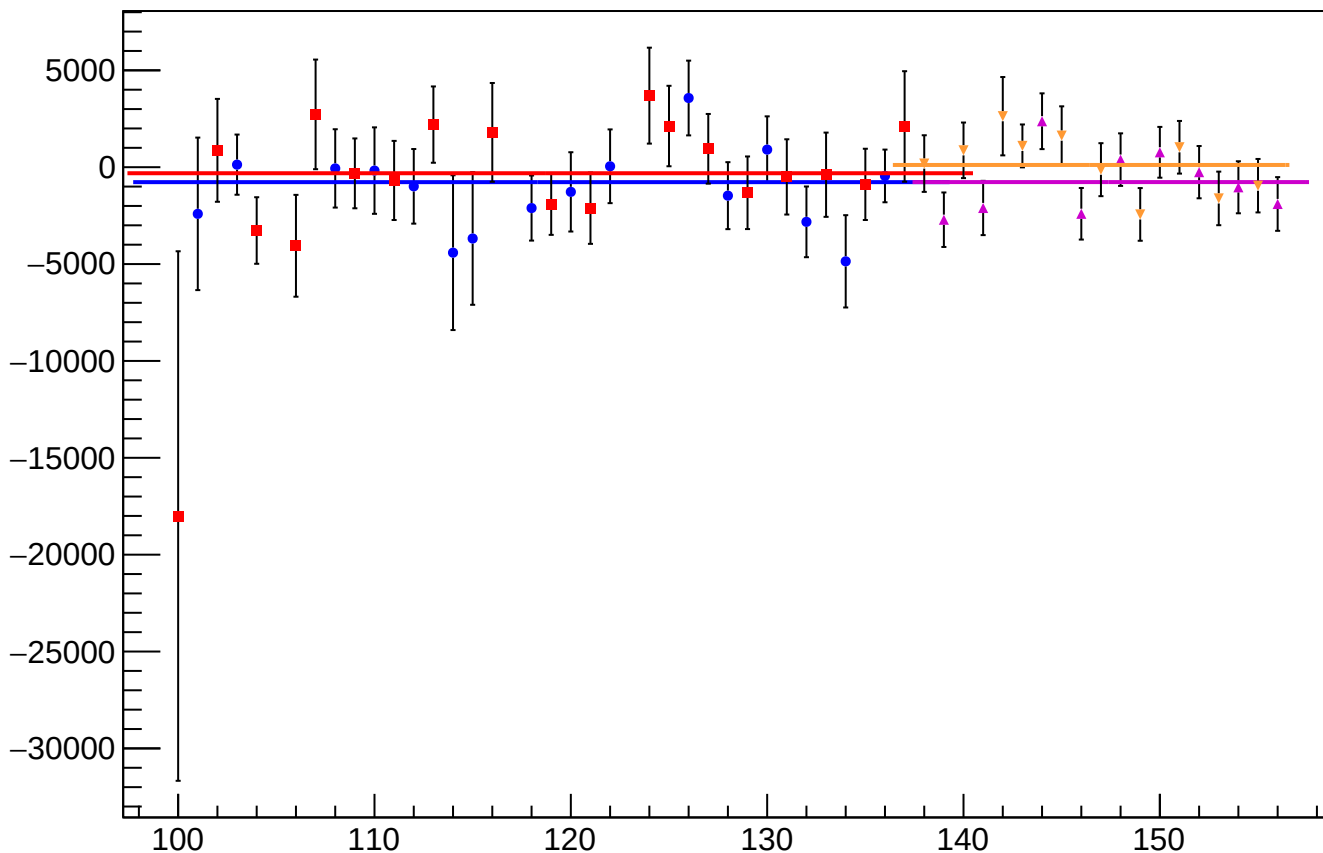
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 356.456+/-0.071 χ^2/NDF : 4974590.0/24

Out: 347.635+/-0.072 χ^2/NDF : 6902285.6/28

All: 352.058+/-0.051 χ^2/NDF : 11884480.6/53

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -771.501 ± 489.602 $\chi^2/\text{NDF}: 13.6/15$

Left Out: 115.558 ± 442.076 $\chi^2/\text{NDF}: 9.8/9$

Right Out: -311.419 ± 482.642 $\chi^2/\text{NDF}: 17.9/18$

Left In: -768.446 ± 455.848 $\chi^2/\text{NDF}: 12.0/8$

Left: -312.889 ± 317.352 $\chi^2/\text{NDF}: 23.8/18$

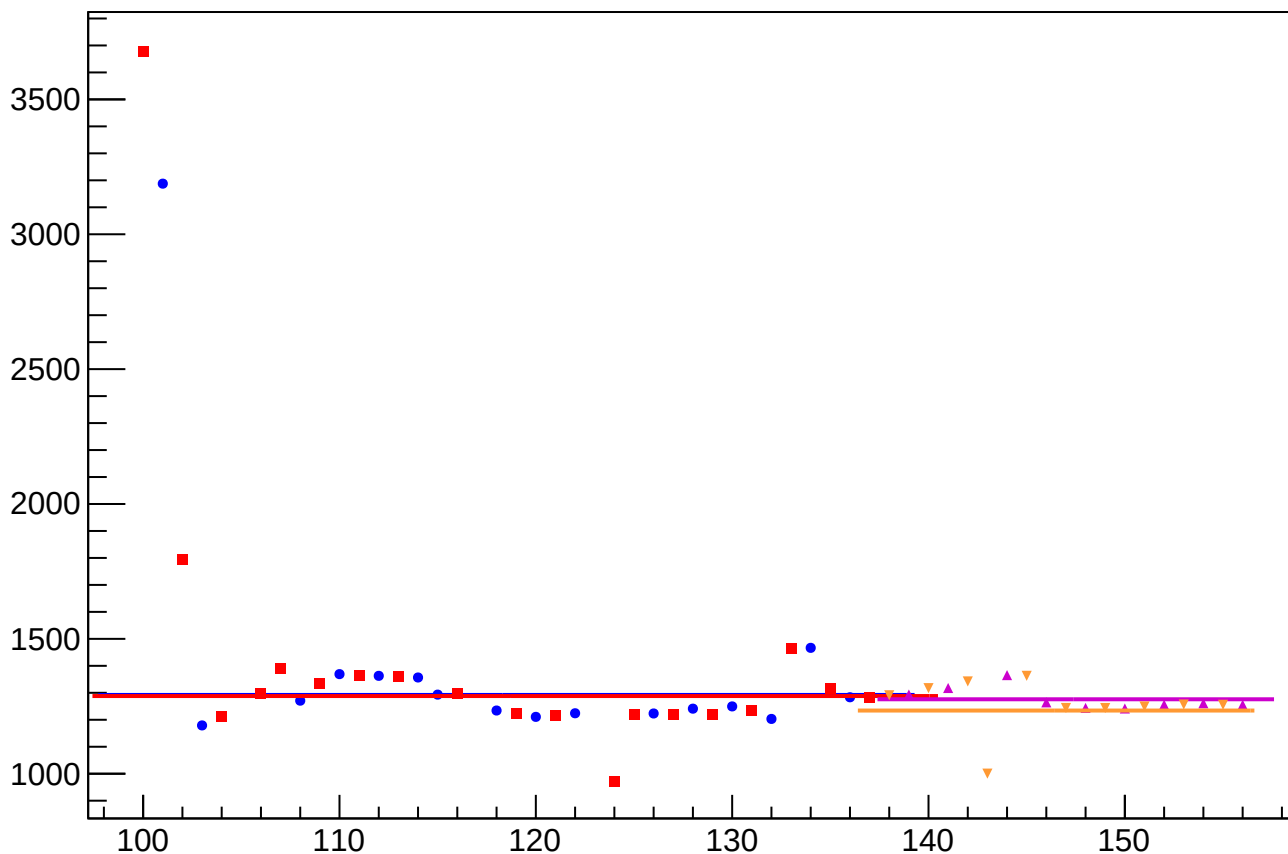
Right: -538.167 ± 343.714 $\chi^2/\text{NDF}: 32.0/34$

In: -769.865 ± 333.628 $\chi^2/\text{NDF}: 25.6/24$

Out: -79.236 ± 325.995 $\chi^2/\text{NDF}: 28.1/28$

All: -416.559 ± 233.165 $\chi^2/\text{NDF}: 56.0/53$

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: 1234.214+/-0.313 χ^2/NDF : 120600.2/9

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1275.984+/-0.322 χ^2/NDF : 13586.9/8

Left: 1254.459+/-0.224 χ^2/NDF : 142841.2/18

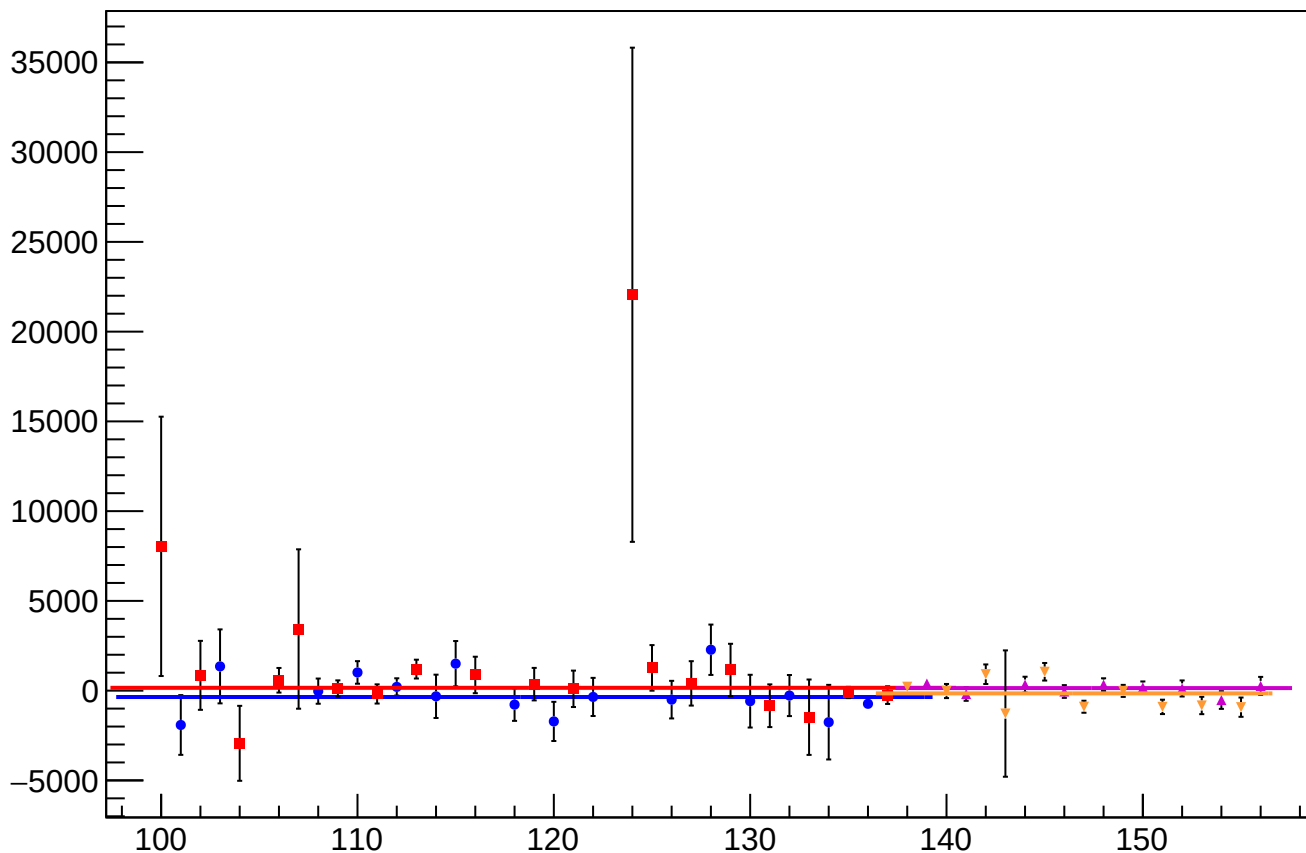
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1283.439+/-0.236 χ^2/NDF : 524144.9/24

Out: 1258.747+/-0.231 χ^2/NDF : 343310.1/28

All: 1270.807+/-0.165 χ^2/NDF : 873059.4/53

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.973 $\chi^2/\text{NDF}: 18.4/15$

Left Out: -152.589 ± 126.274 $\chi^2/\text{NDF}: 25.0/9$

Right Out: 157.929 ± 169.667 $\chi^2/\text{NDF}: 15.8/18$

Left In: 142.762 ± 125.583 $\chi^2/\text{NDF}: 4.3/8$

Left: -4.103 ± 89.044 $\chi^2/\text{NDF}: 32.1/18$

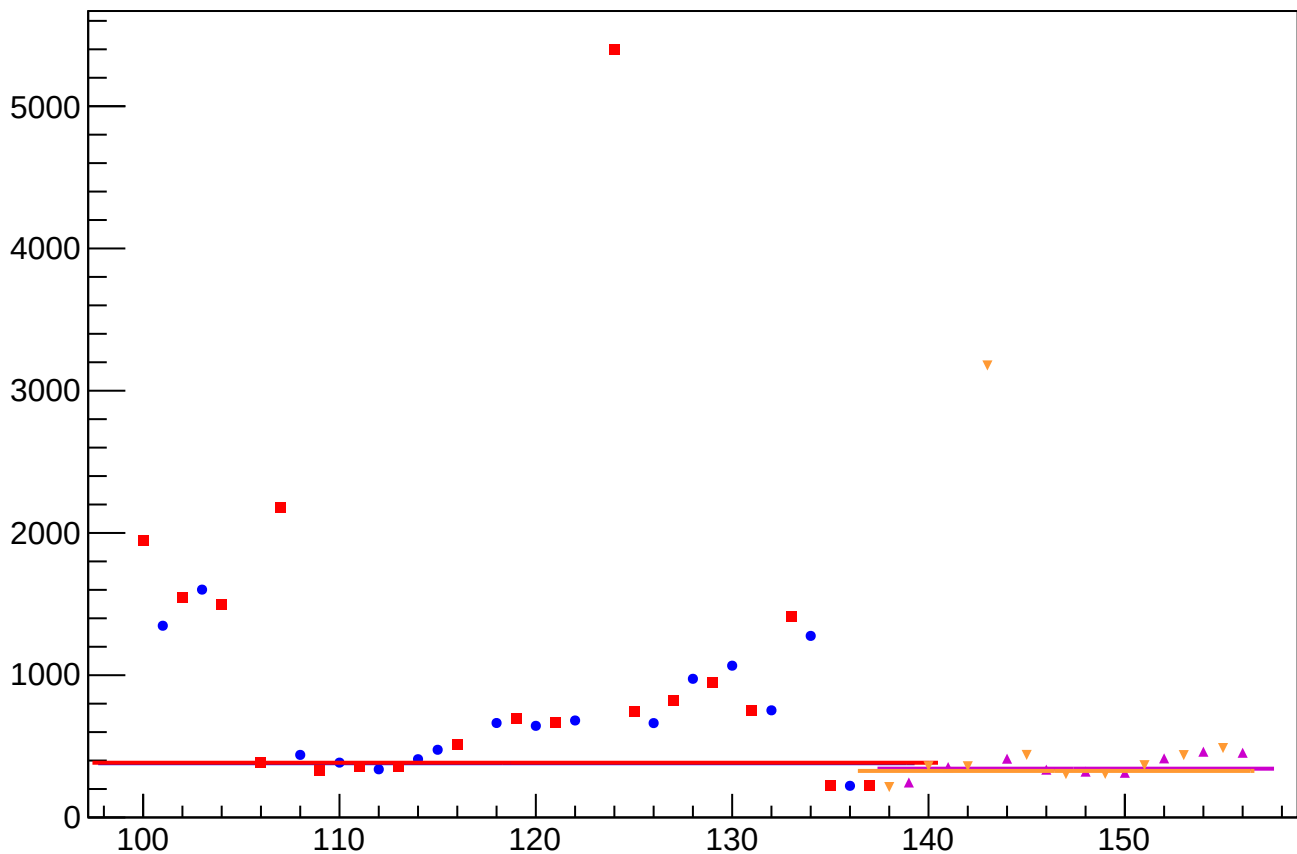
Right: -98.185 ± 120.081 $\chi^2/\text{NDF}: 38.8/34$

In: -33.087 ± 101.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -41.902 ± 101.298 $\chi^2/\text{NDF}: 43.0/28$

All: -37.482 ± 71.525 $\chi^2/\text{NDF}: 71.3/53$

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: 327.139+/-0.089 χ^2/NDF : 2194008.2/9

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 342.872+/-0.089 χ^2/NDF : 590261.4/8

Left: 335.049+/-0.063 χ^2/NDF : 2799878.6/18

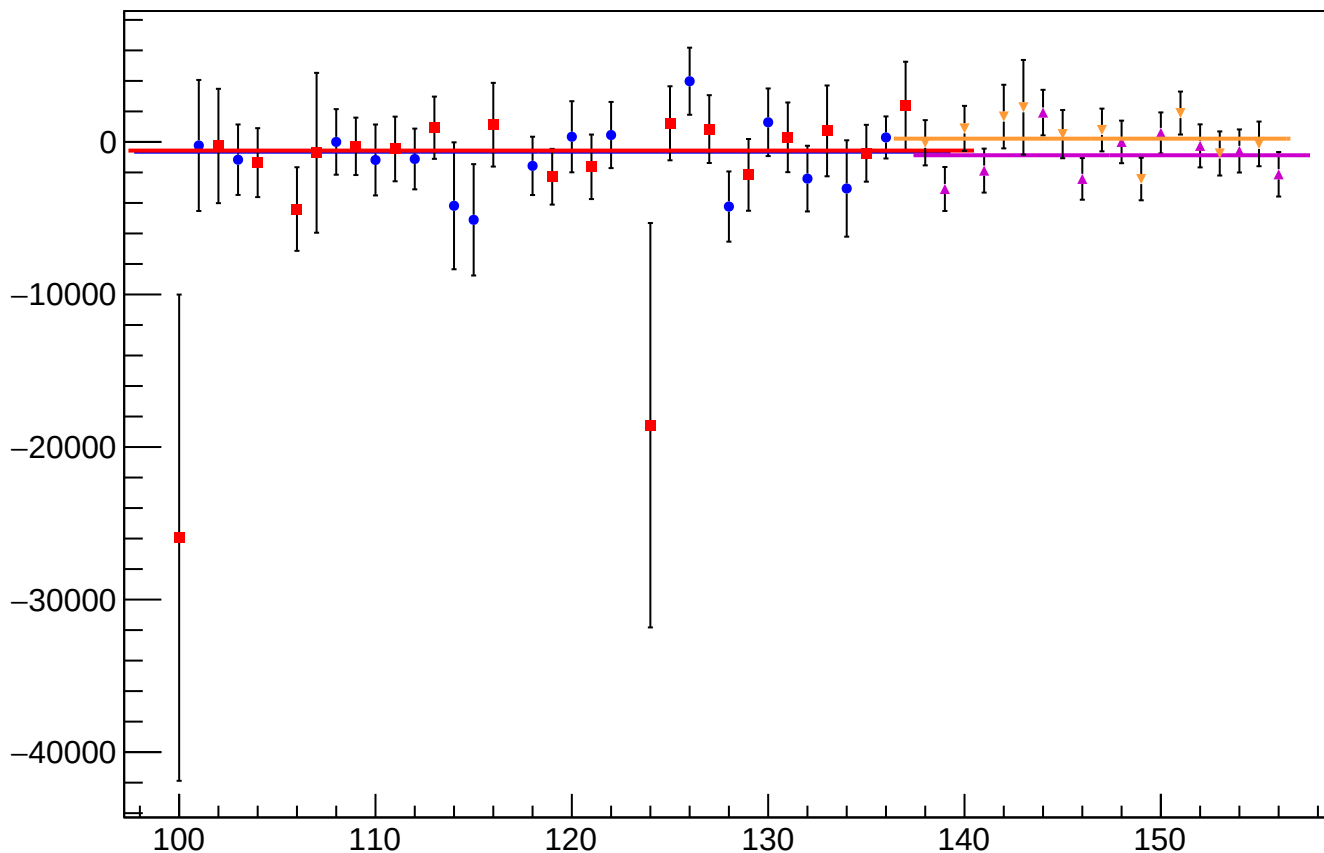
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 356.463+/-0.071 χ^2/NDF : 4974330.7/24

Out: 347.642+/-0.072 χ^2/NDF : 6902001.6/28

All: 352.065+/-0.051 χ^2/NDF : 11883935.6/53

asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -640.824 ± 564.366 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 214.900 ± 492.580 $\chi^2/\text{NDF}: 6.9/9$

Right Out: -567.254 ± 566.774 $\chi^2/\text{NDF}: 11.3/18$

Left In: -873.767 ± 471.969 $\chi^2/\text{NDF}: 10.2/8$

Left: -352.687 ± 340.786 $\chi^2/\text{NDF}: 19.6/18$

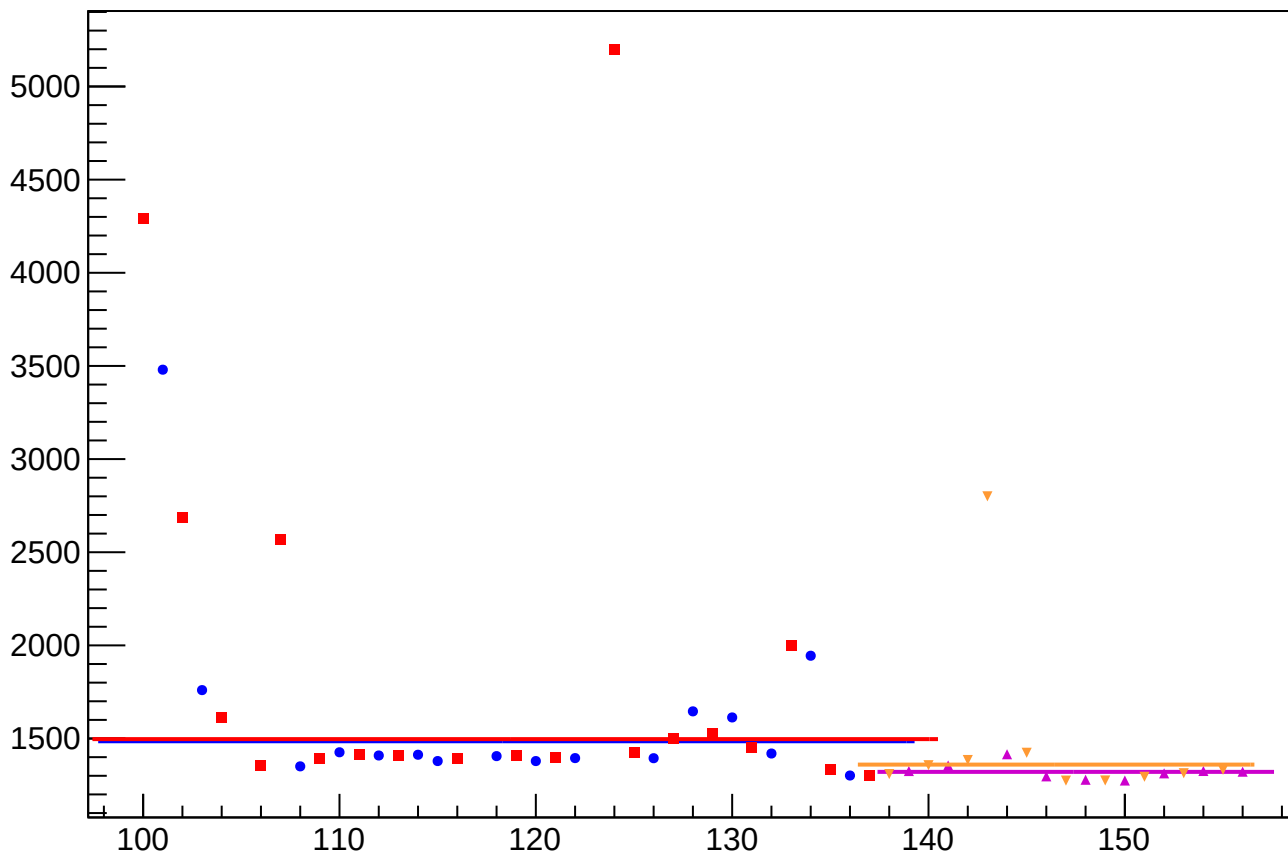
Right: -604.196 ± 399.916 $\chi^2/\text{NDF}: 23.8/34$

In: -777.900 ± 362.051 $\chi^2/\text{NDF}: 22.8/24$

Out: -121.665 ± 371.791 $\chi^2/\text{NDF}: 19.3/28$

All: -458.491 ± 259.384 $\chi^2/\text{NDF}: 43.7/53$

asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Left: 1339.731 ± 0.241 $\chi^2/\text{NDF}: 479342.2/18$

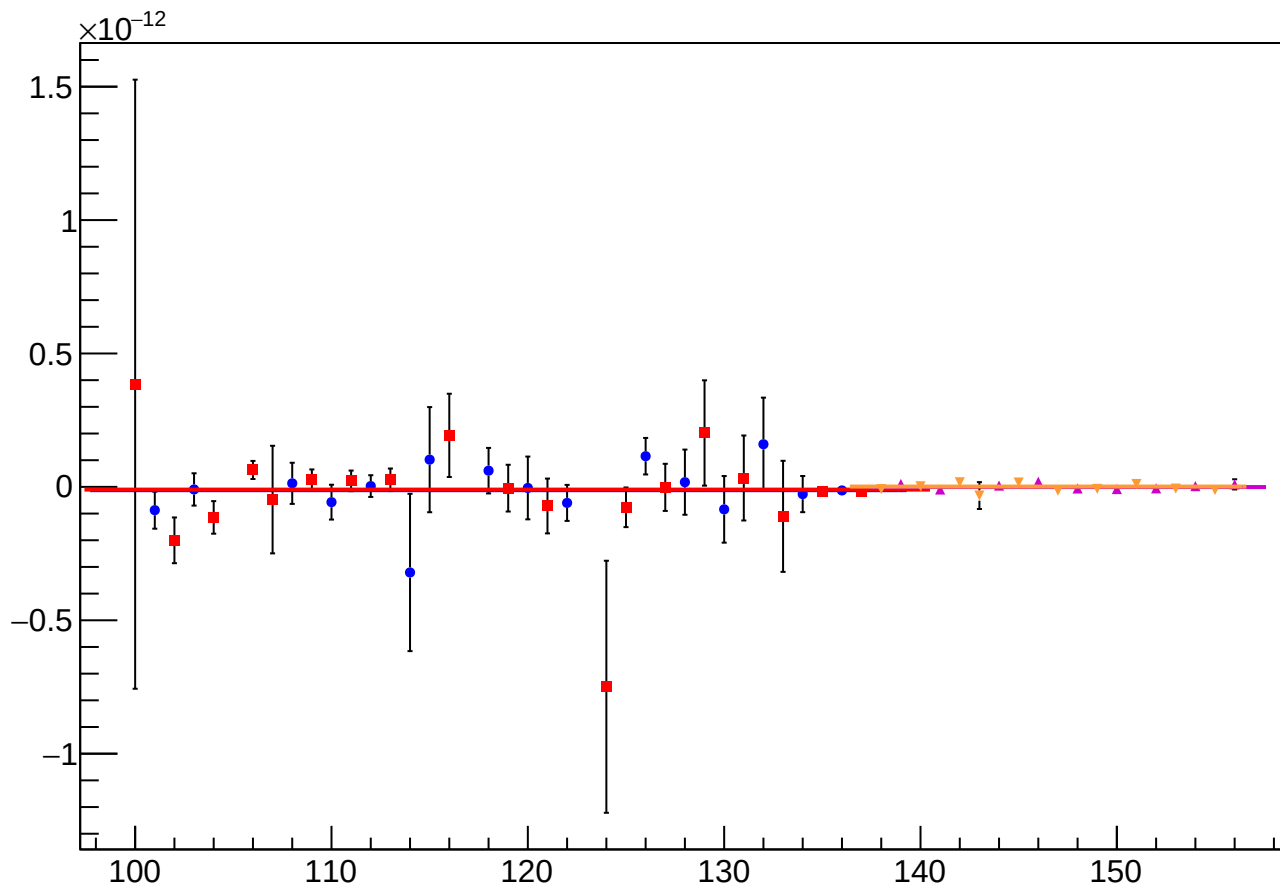
Right: 1491.093 ± 0.283 $\chi^2/\text{NDF}: 1208175.9/34$

In: 1388.671 ± 0.256 $\chi^2/\text{NDF}: 698374.9/24$

Out: 1418.943 ± 0.263 $\chi^2/\text{NDF}: 1148316.7/28$

All: 1403.406 ± 0.183 $\chi^2/\text{NDF}: 1853497.2/53$

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 : 10.8/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 22.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 9.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 20.2/18

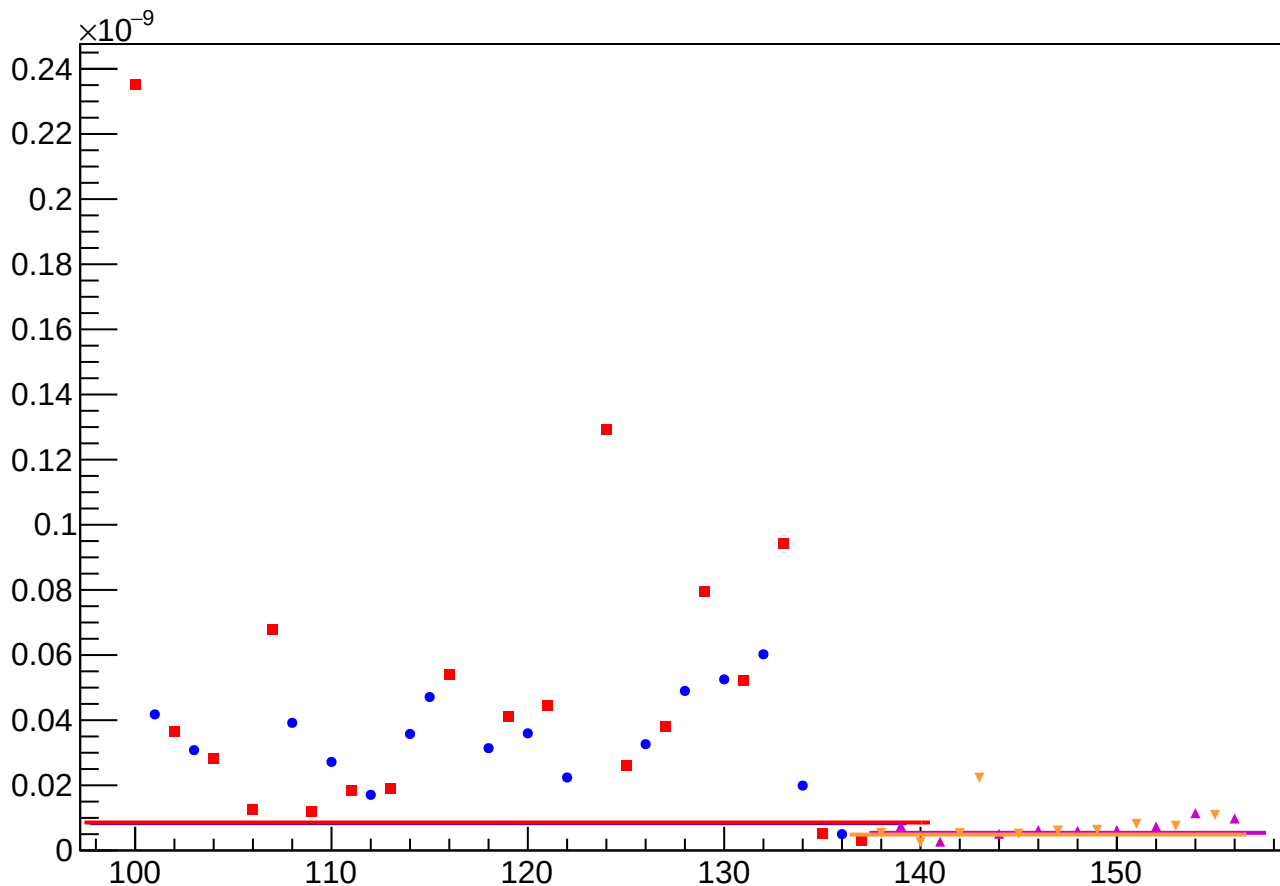
Right: -0.000 ± 0.000 χ^2/NDF : 31.8/34

In: -0.000 ± 0.000 χ^2/NDF : 20.8/24

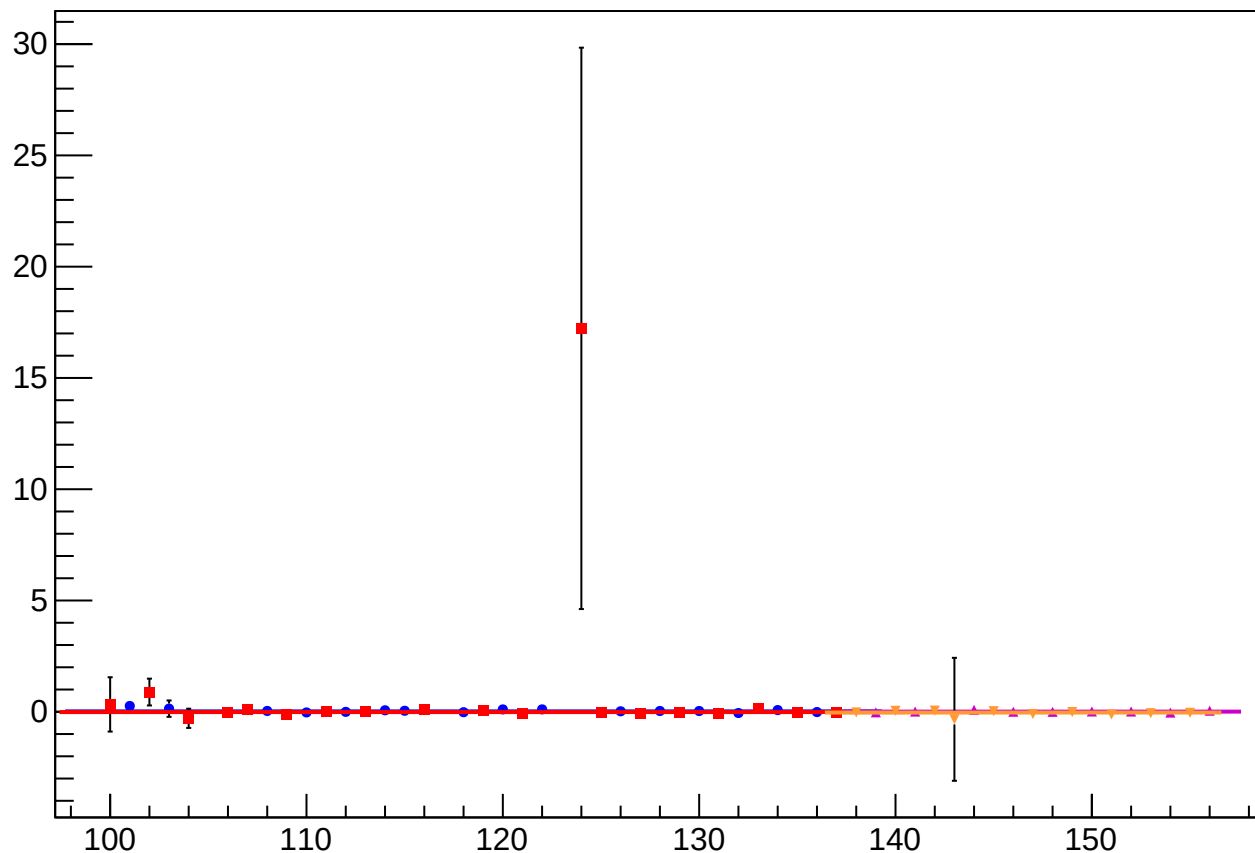
Out: -0.000 ± 0.000 χ^2/NDF : 34.9/28

All: -0.000 ± 0.000 χ^2/NDF : 56.0/53

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: -0.035 $\pm$ 0.014 χ^2 /NDF:15.3/9

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: 0.007 $\pm$ 0.014 χ^2 /NDF:4.9/8

Left: -0.014 $\pm$ 0.010 χ^2 /NDF: 25.0/18

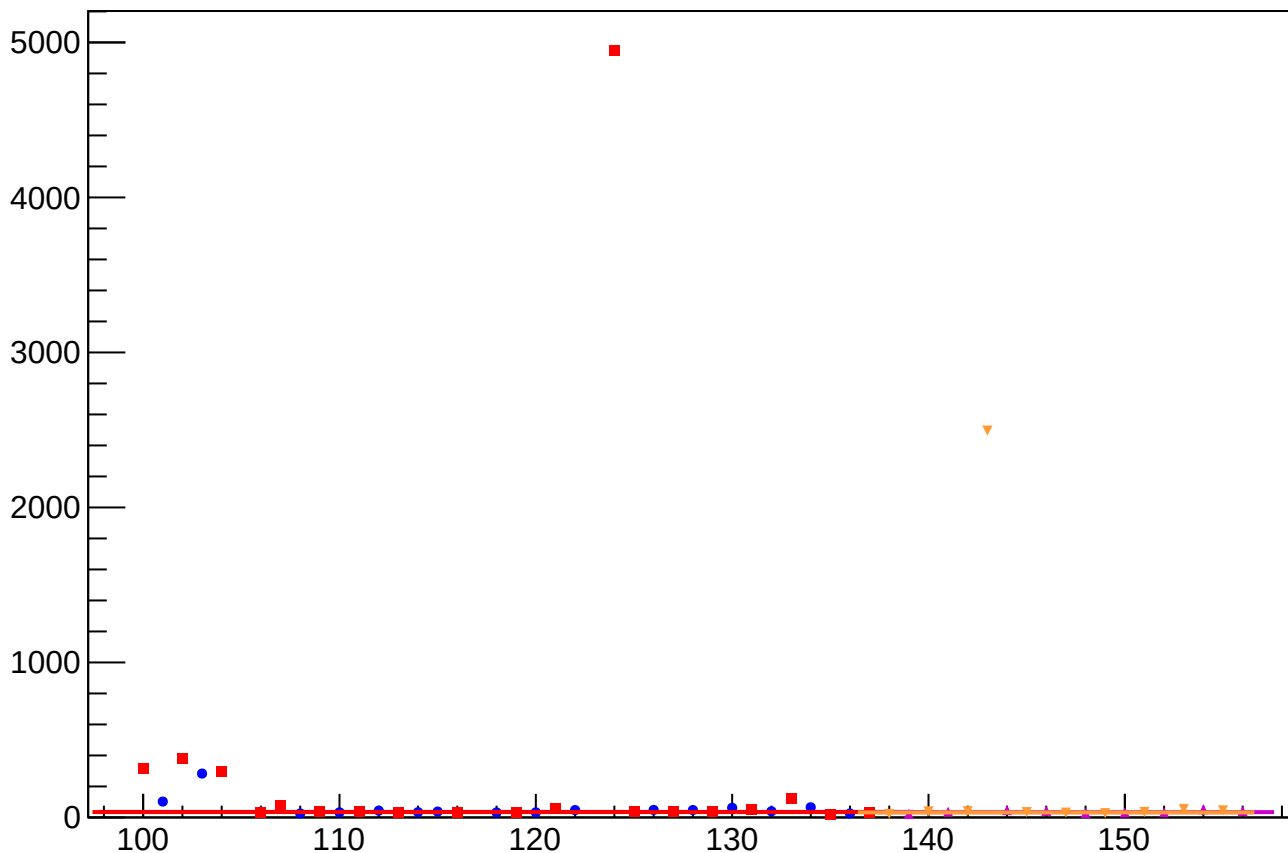
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:16.6/24

Out: -0.026 $\pm$ 0.010 χ^2 /NDF:32.4/28

All: -0.007 $\pm$ 0.007 χ^2 /NDF: 55.5/53

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: 32.503 $\pm$ 0.010 χ^2 /NDF: 2349928.5/9

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 34.278 $\pm$ 0.010 χ^2 /NDF: 758169.4/8

Left: 33.389 $\pm$ 0.007 χ^2 /NDF: 3125346.9/18

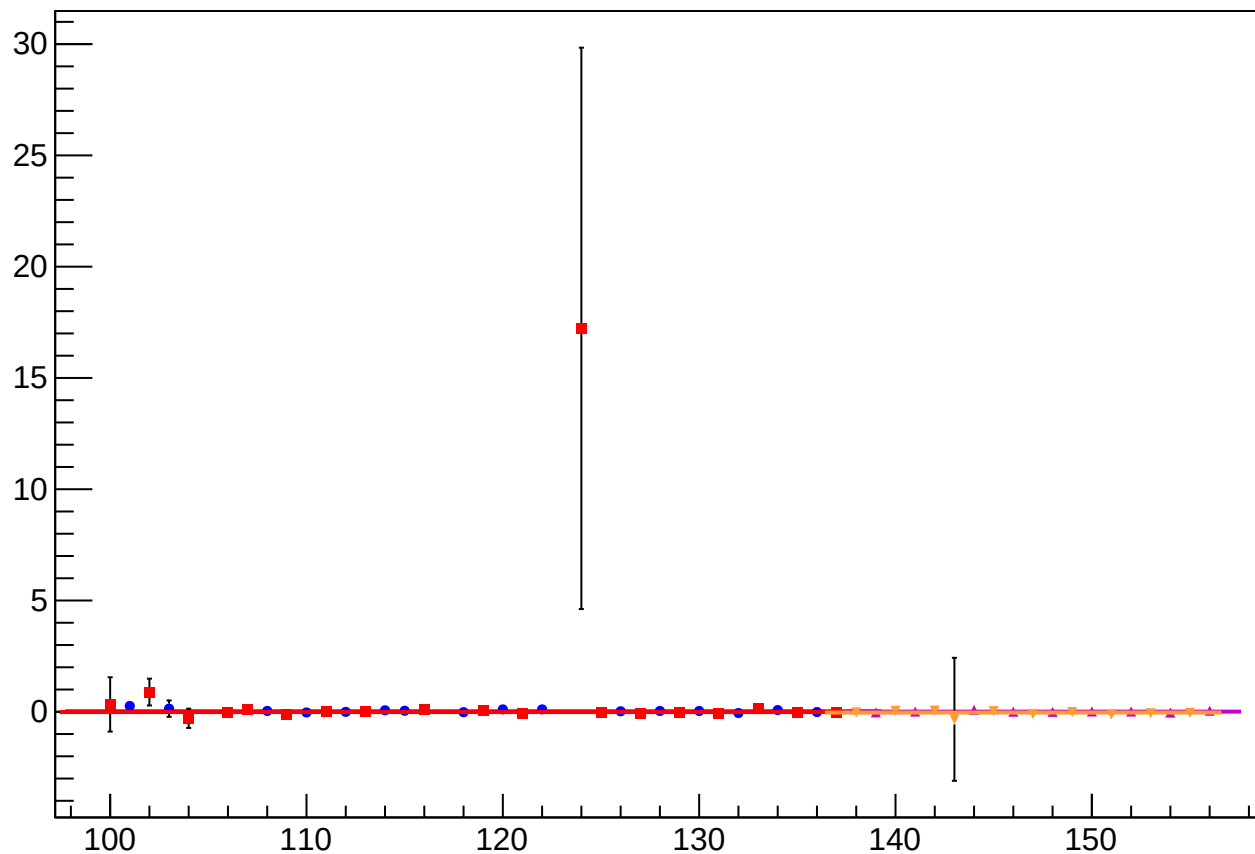
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 34.913 $\pm$ 0.007 χ^2 /NDF: 3033121.3/24

Out: 33.484 $\pm$ 0.007 χ^2 /NDF: 5288751.3/28

All: 34.201 $\pm$ 0.005 χ^2 /NDF: 8341529.0/53

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: -0.035 $\pm$ 0.014 χ^2 /NDF:15.3/9

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: 0.007 $\pm$ 0.014 χ^2 /NDF:4.9/8

Left: -0.014 $\pm$ 0.010 χ^2 /NDF: 25.0/18

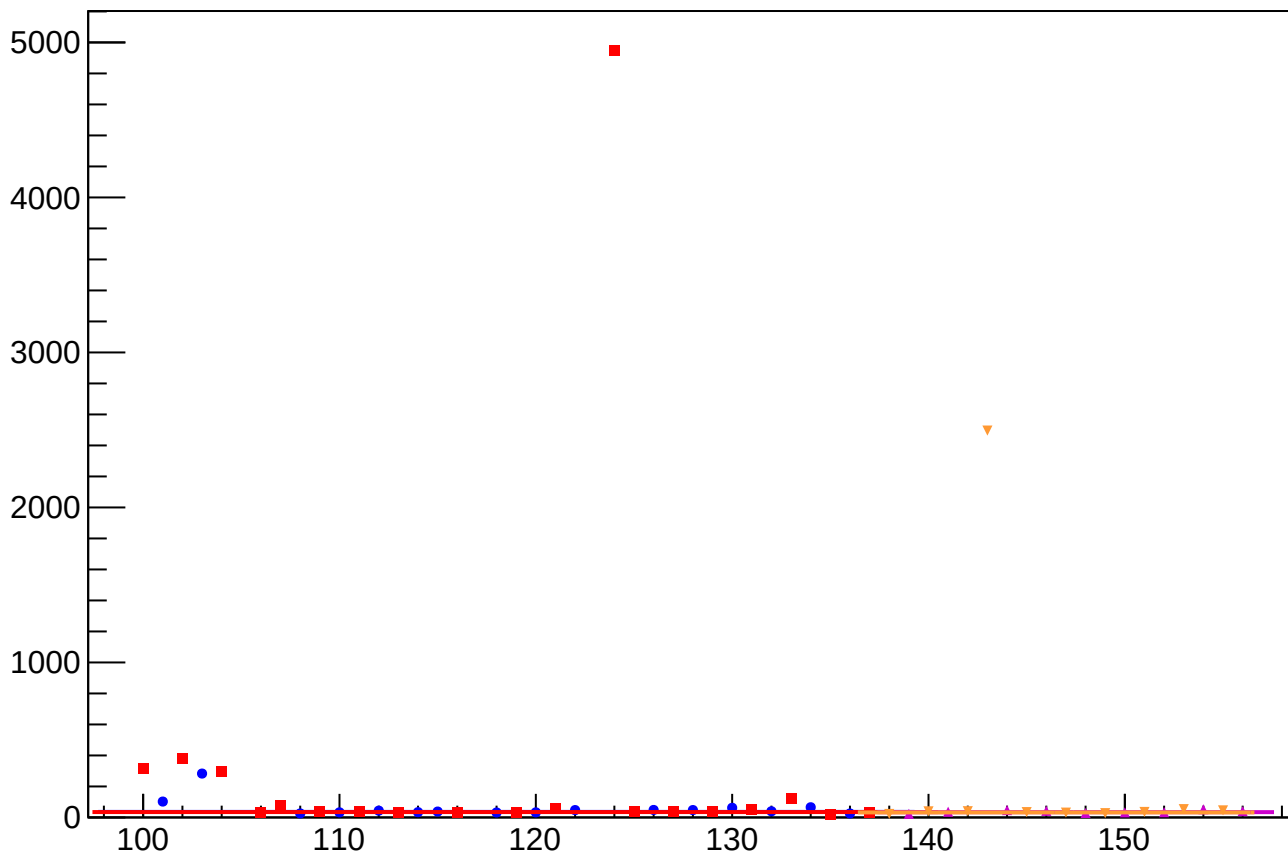
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:16.6/24

Out: -0.026 $\pm$ 0.010 χ^2 /NDF:32.4/28

All: -0.007 $\pm$ 0.007 χ^2 /NDF: 55.5/53

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: 32.503 $\pm$ 0.010 χ^2 /NDF: 2349928.5/9

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 34.278 $\pm$ 0.010 χ^2 /NDF: 758169.4/8

Left: 33.389 $\pm$ 0.007 χ^2 /NDF: 3125346.9/18

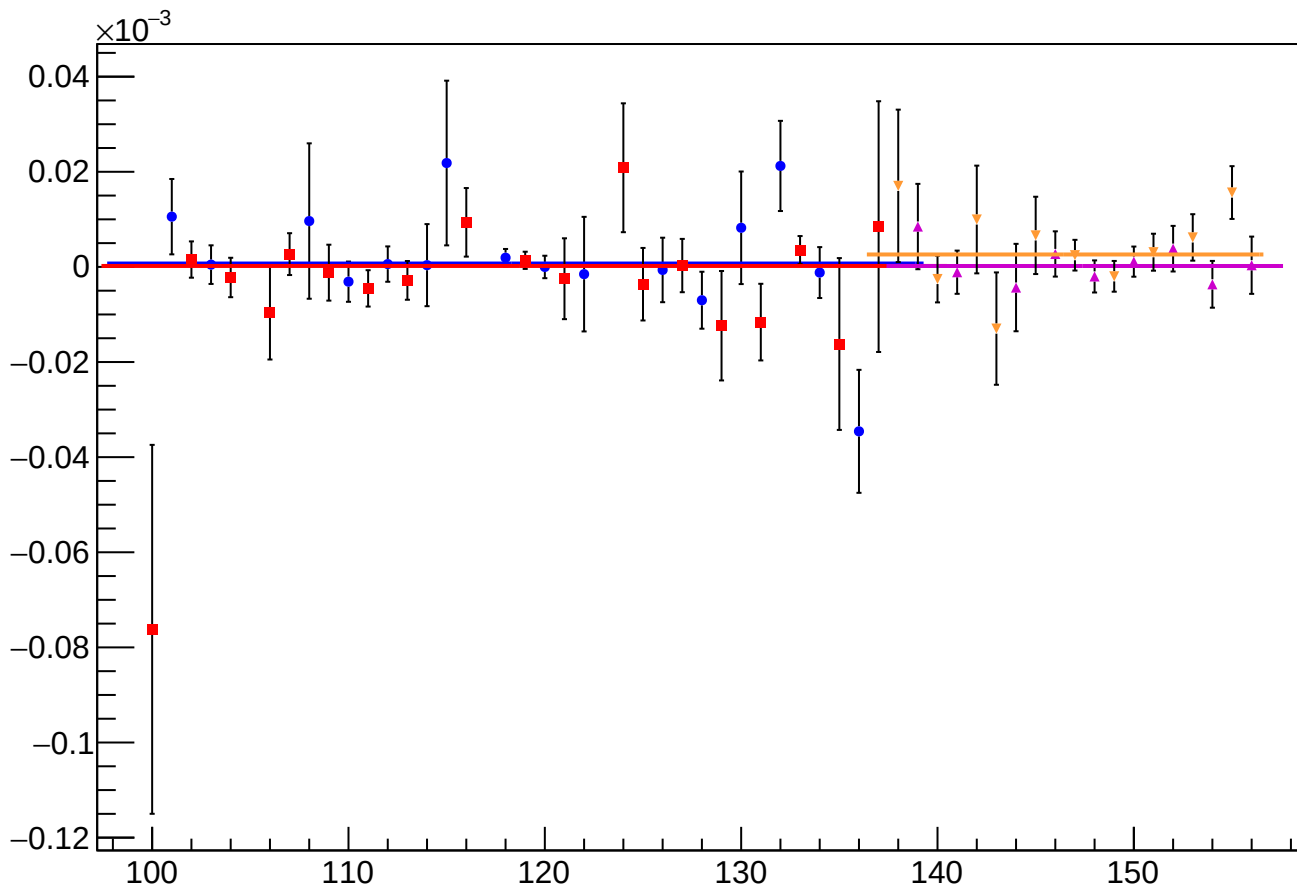
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 34.913 $\pm$ 0.007 χ^2 /NDF: 3033121.3/24

Out: 33.484 $\pm$ 0.007 χ^2 /NDF: 5288751.3/28

All: 34.201 $\pm$ 0.005 χ^2 /NDF: 8341529.0/53

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:12.4/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:3.2/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.8/18

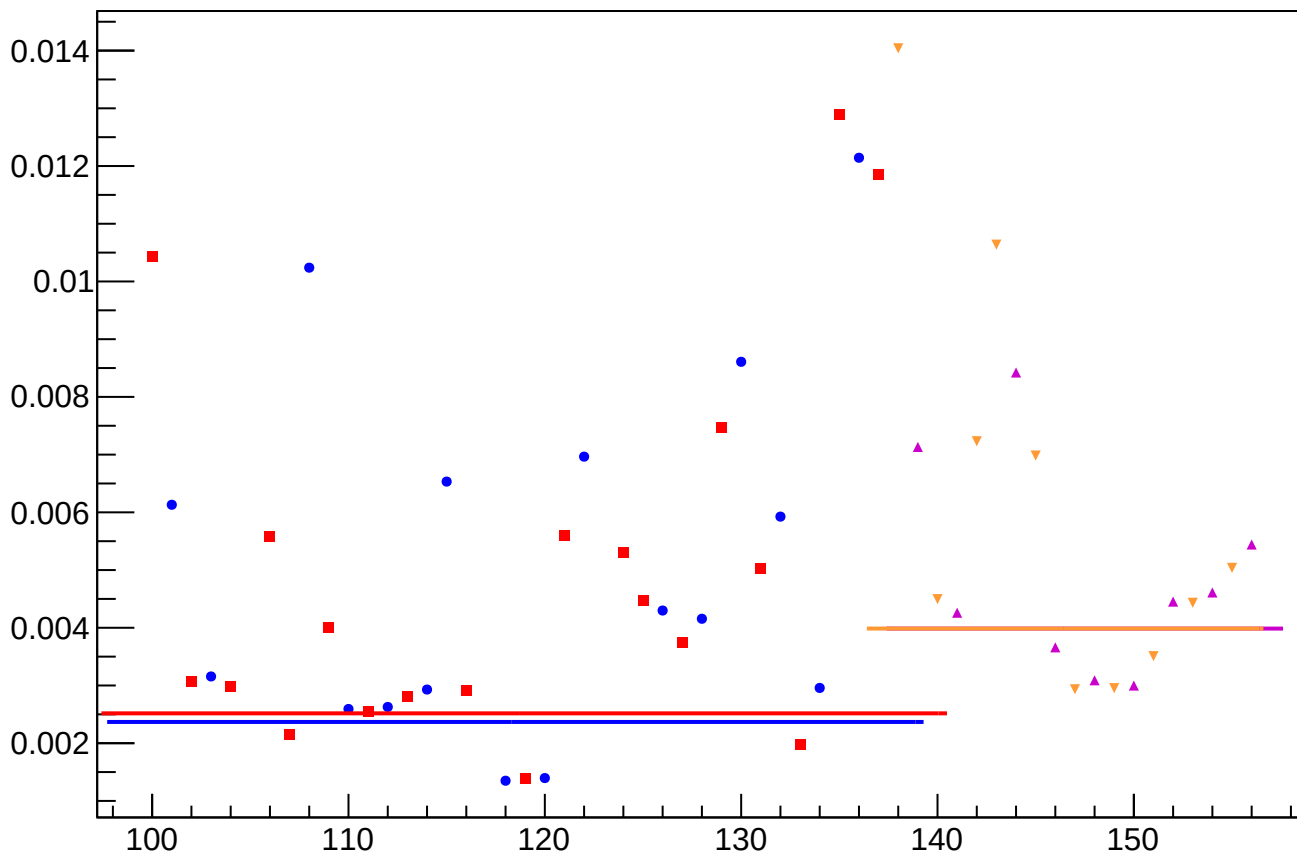
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.3/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:32.1/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 54.5/53

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: 0.004+/-0.000 χ^2/NDF :2413689.4/9

Right Out: 0.003+/-0.000 χ^2/NDF : 3397462.9/18

Left In: 0.004+/-0.000 χ^2/NDF :1232451.2/8

Left: 0.004+/-0.000 χ^2/NDF : 3646140.7/18

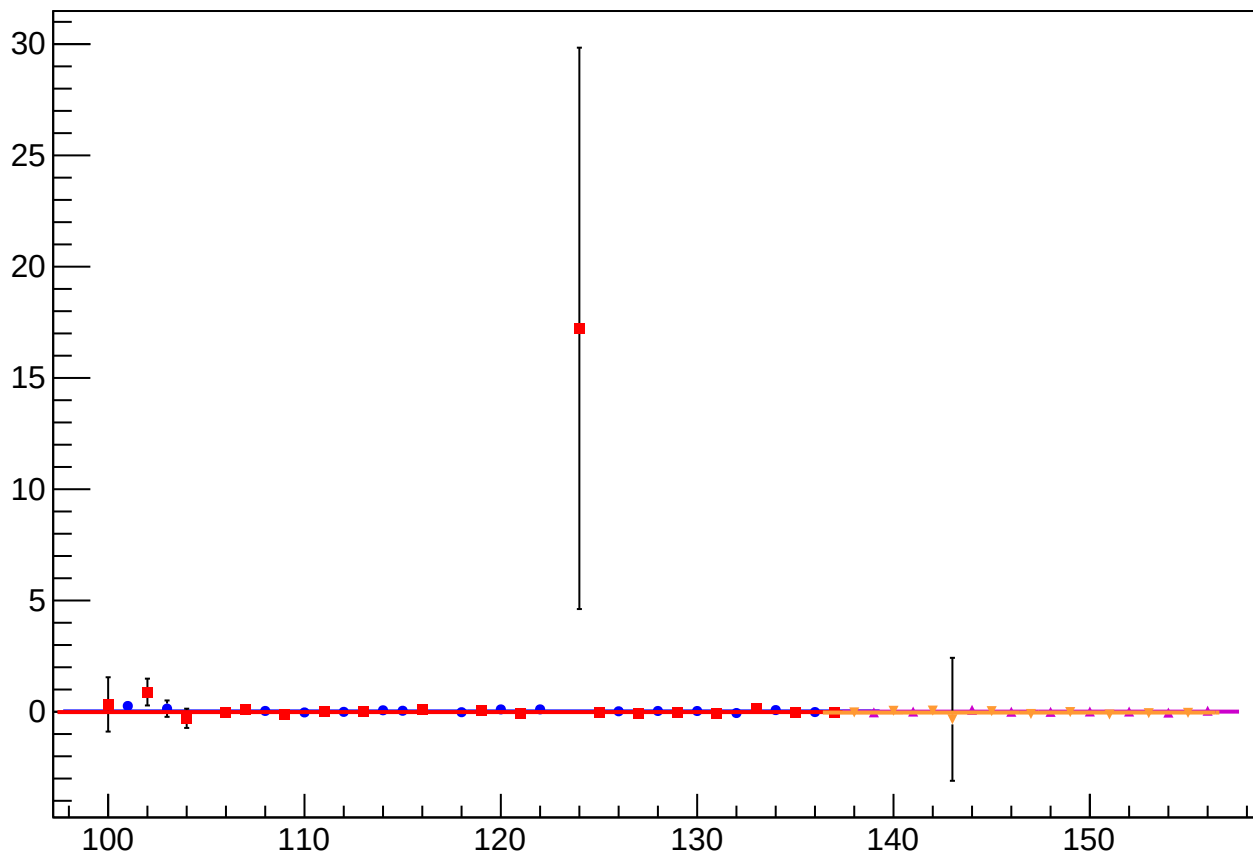
Right: 0.002+/-0.000 χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000 χ^2/NDF :7398293.2/24

Out: 0.003+/-0.000 χ^2/NDF :7014937.1/28

All: 0.003+/-0.000 χ^2/NDF : 14418860.6/53

asym_atl1r2_dd_atl2r1_dd_avg_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: -0.035 $\pm$ 0.014 χ^2 /NDF:15.3/9

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: 0.007 $\pm$ 0.014 χ^2 /NDF:4.9/8

Left: -0.014 $\pm$ 0.010 χ^2 /NDF: 25.0/18

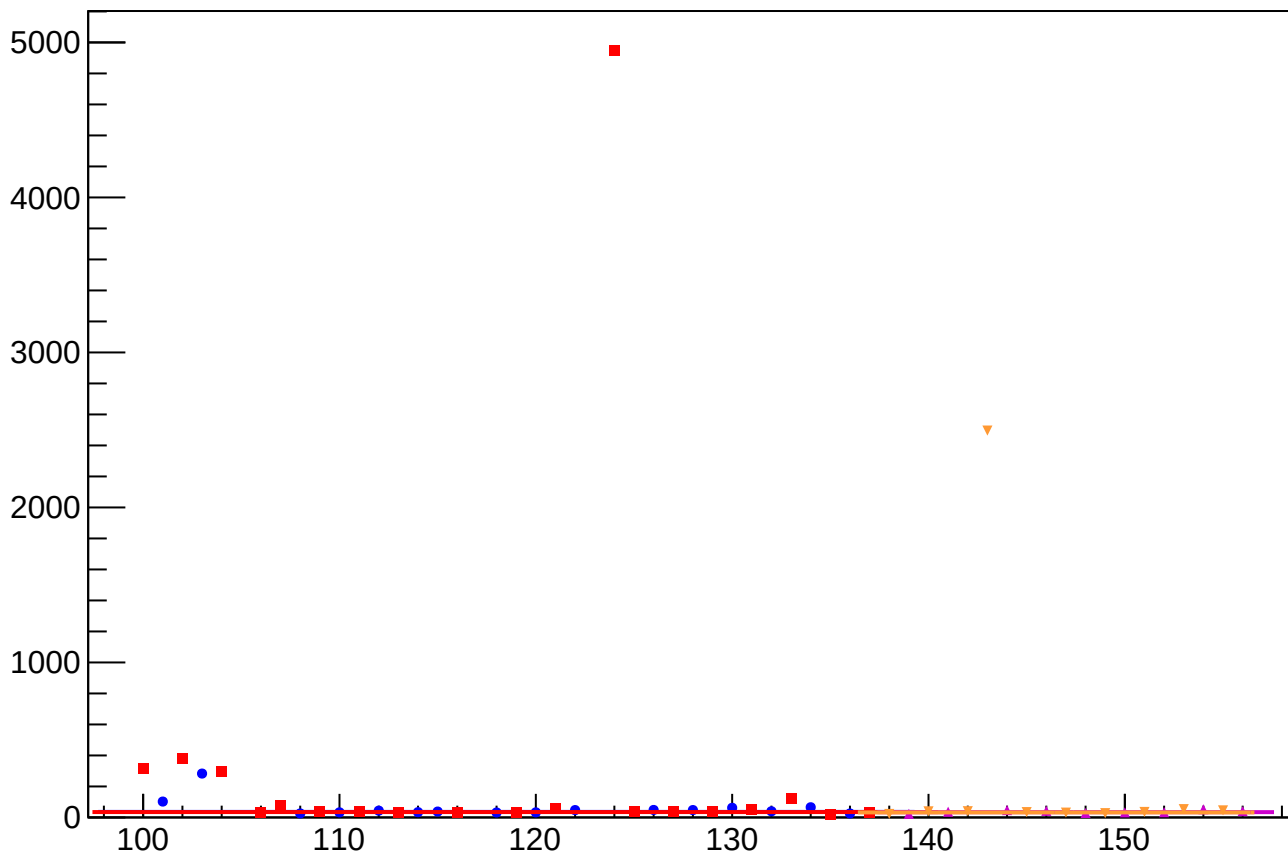
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:16.6/24

Out: -0.026 $\pm$ 0.010 χ^2 /NDF:32.4/28

All: -0.007 $\pm$ 0.007 χ^2 /NDF: 55.5/53

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743 $\pm$ 0.011 χ^2 /NDF: 2264513.9/15

Left Out: 32.503 $\pm$ 0.010 χ^2 /NDF: 2350188.4/9

Right Out: 34.798 $\pm$ 0.011 χ^2 /NDF: 2913962.5/18

Left In: 34.276 $\pm$ 0.010 χ^2 /NDF: 758622.9/8

Left: 33.388 $\pm$ 0.007 χ^2 /NDF: 3126028.9/18

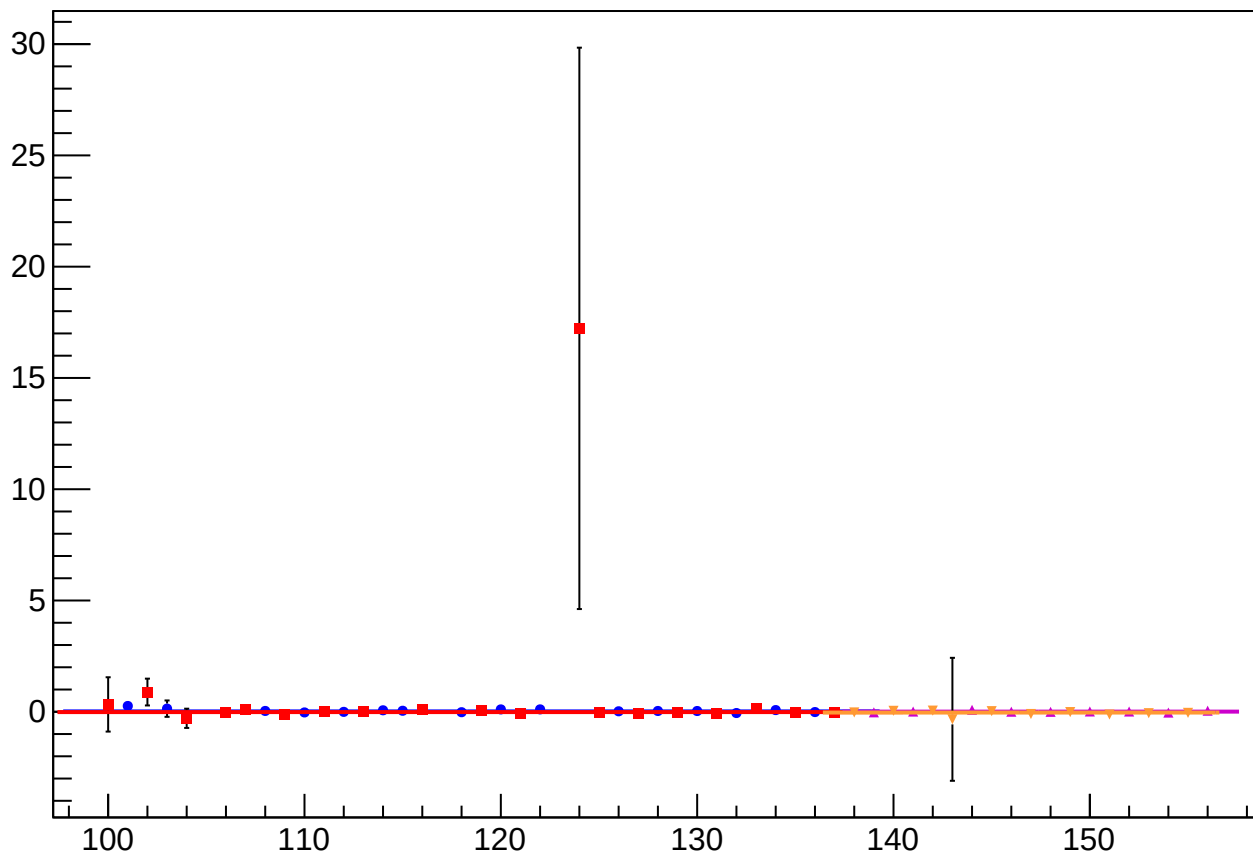
Right: 35.276 $\pm$ 0.008 χ^2 /NDF: 5182182.2/34

In: 34.913 $\pm$ 0.007 χ^2 /NDF: 3033343.8/24

Out: 33.484 $\pm$ 0.007 χ^2 /NDF: 5288859.4/28

All: 34.201 $\pm$ 0.005 χ^2 /NDF: 8341840.7/53

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: -0.035 ± 0.014 $\chi^2/\text{NDF}: 15.3/9$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.007 ± 0.014 $\chi^2/\text{NDF}: 4.9/8$

Left: -0.014 ± 0.010 $\chi^2/\text{NDF}: 25.0/18$

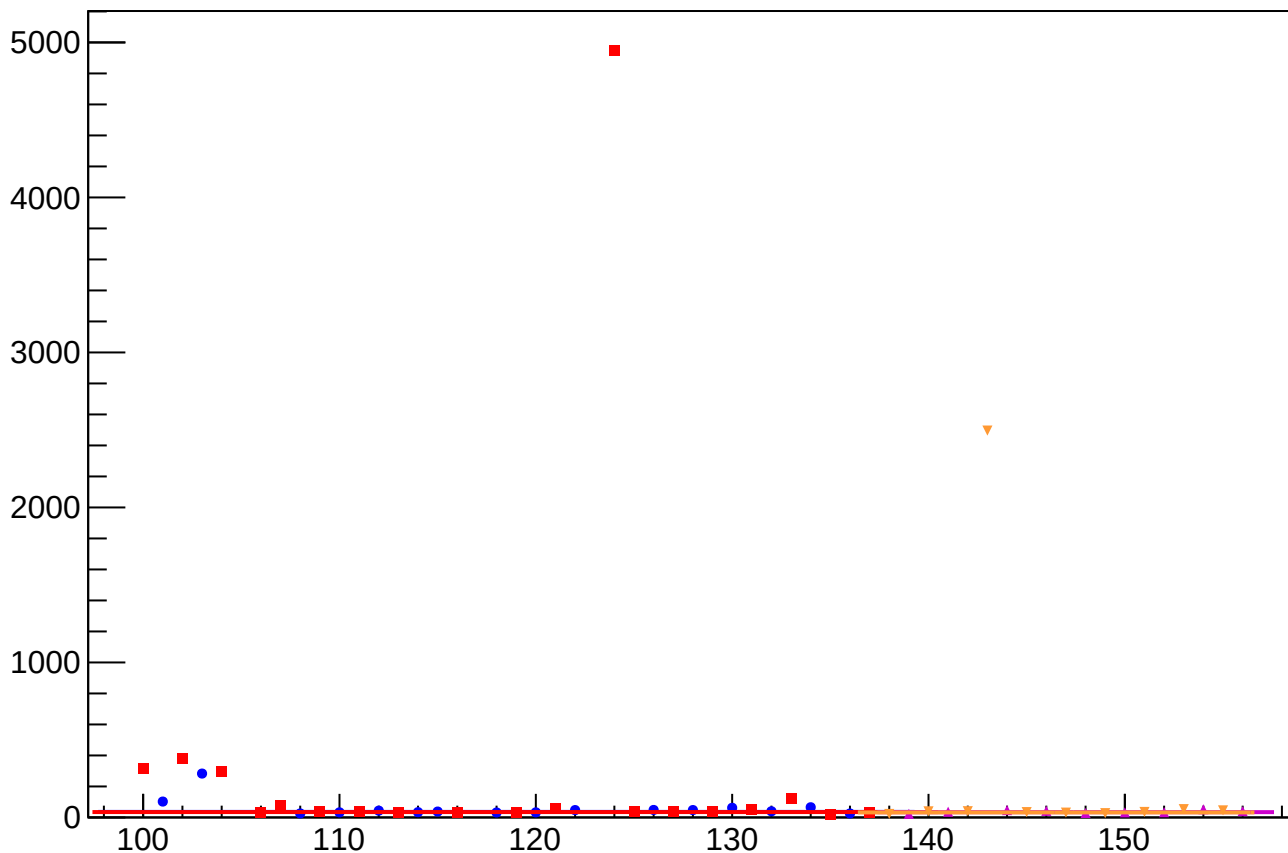
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.011 ± 0.010 $\chi^2/\text{NDF}: 16.6/24$

Out: -0.026 ± 0.010 $\chi^2/\text{NDF}: 32.4/28$

All: -0.007 ± 0.007 $\chi^2/\text{NDF}: 55.5/53$

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: 32.503+/-0.010 χ^2/NDF : 2350188.4/9

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 34.276+/-0.010 χ^2/NDF : 758622.9/8

Left: 33.388+/-0.007 χ^2/NDF : 3126028.9/18

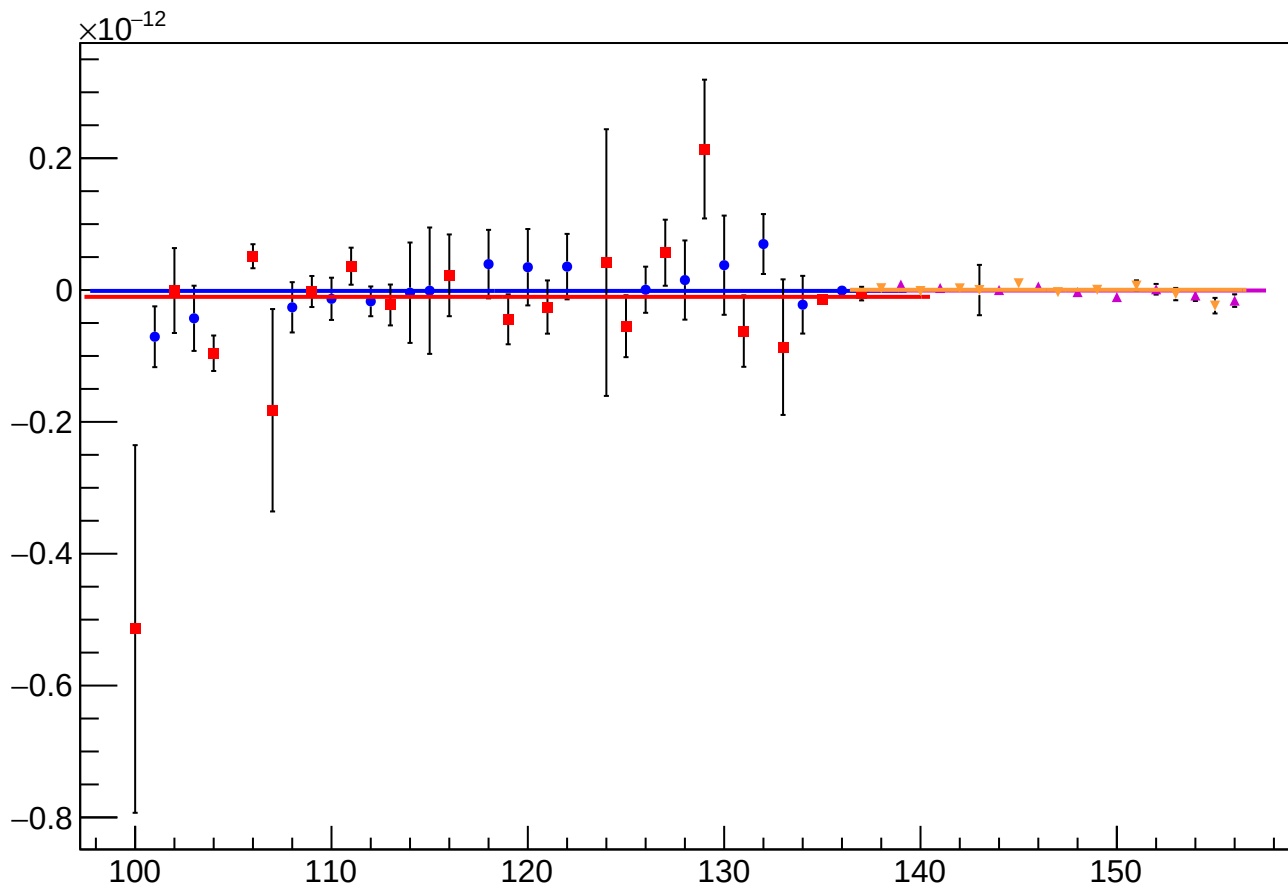
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 34.913+/-0.007 χ^2/NDF : 3033343.8/24

Out: 33.484+/-0.007 χ^2/NDF : 5288859.4/28

All: 34.201+/-0.005 χ^2/NDF : 8341840.7/53

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 : 8.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 39.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.0/8

Left: -0.000+/-0.000 χ^2/NDF : 19.8/18

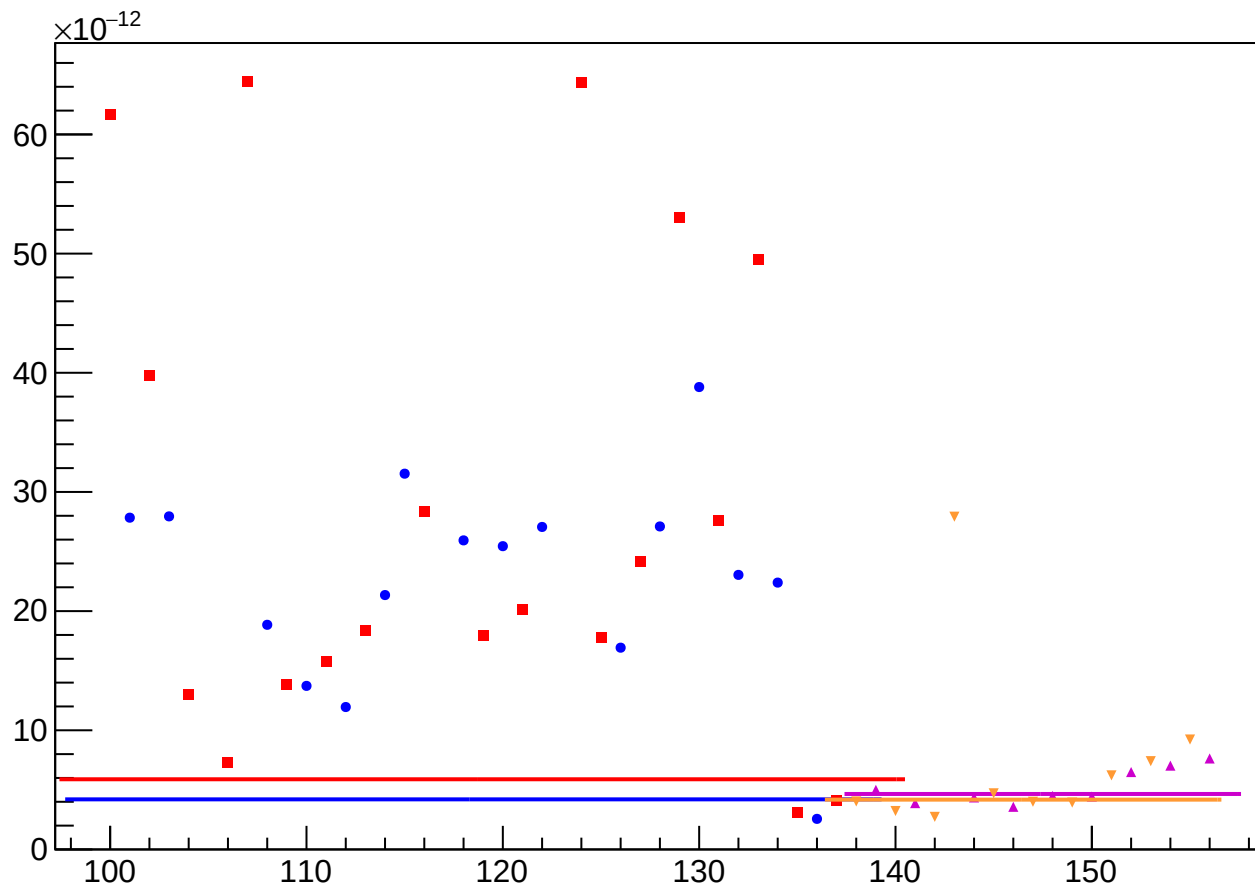
Right: -0.000+/-0.000 χ^2/NDF : 51.3/34

In: -0.000+/-0.000 χ^2/NDF : 19.7/24

Out: -0.000+/-0.000 χ^2/NDF : 53.9/28

All: -0.000+/-0.000 χ^2/NDF : 73.7/53

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 : 1800624.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 629811.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2487934.2/18

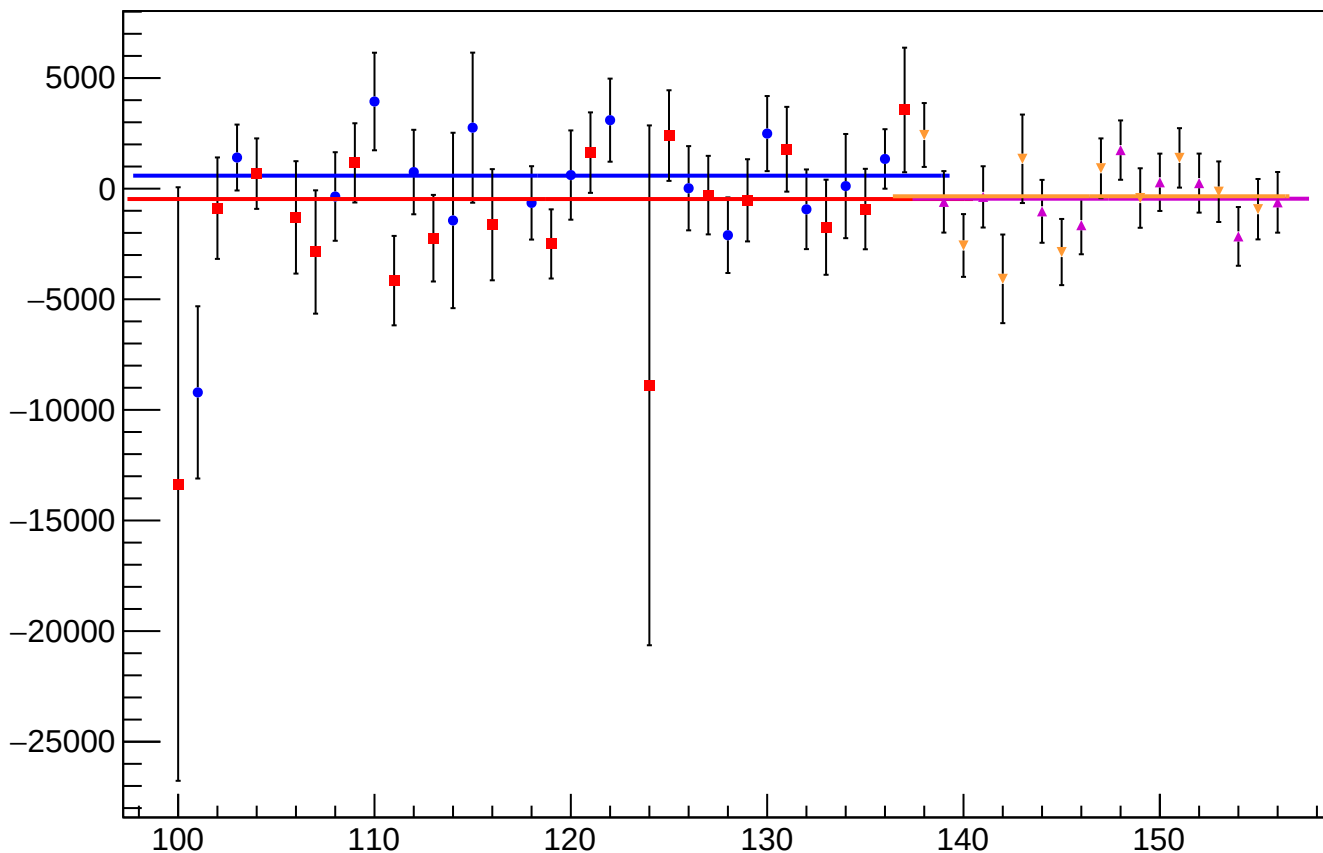
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 5735898.2/24

Out: 0.000+/-0.000 χ^2/NDF : 6936698.5/28

All: 0.000+/-0.000 χ^2/NDF : 12673551.0/53

reg_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 586.935+/-482.434 χ^2/NDF : 17.1/15

Left Out: -344.515+/-463.806 χ^2/NDF : 15.9/9

Right Out: -469.012+/-480.516 χ^2/NDF : 16.9/18

Left In: -454.369+/-450.602 χ^2/NDF : 6.0/8

Left: -401.028+/-323.191 χ^2/NDF : 21.9/18

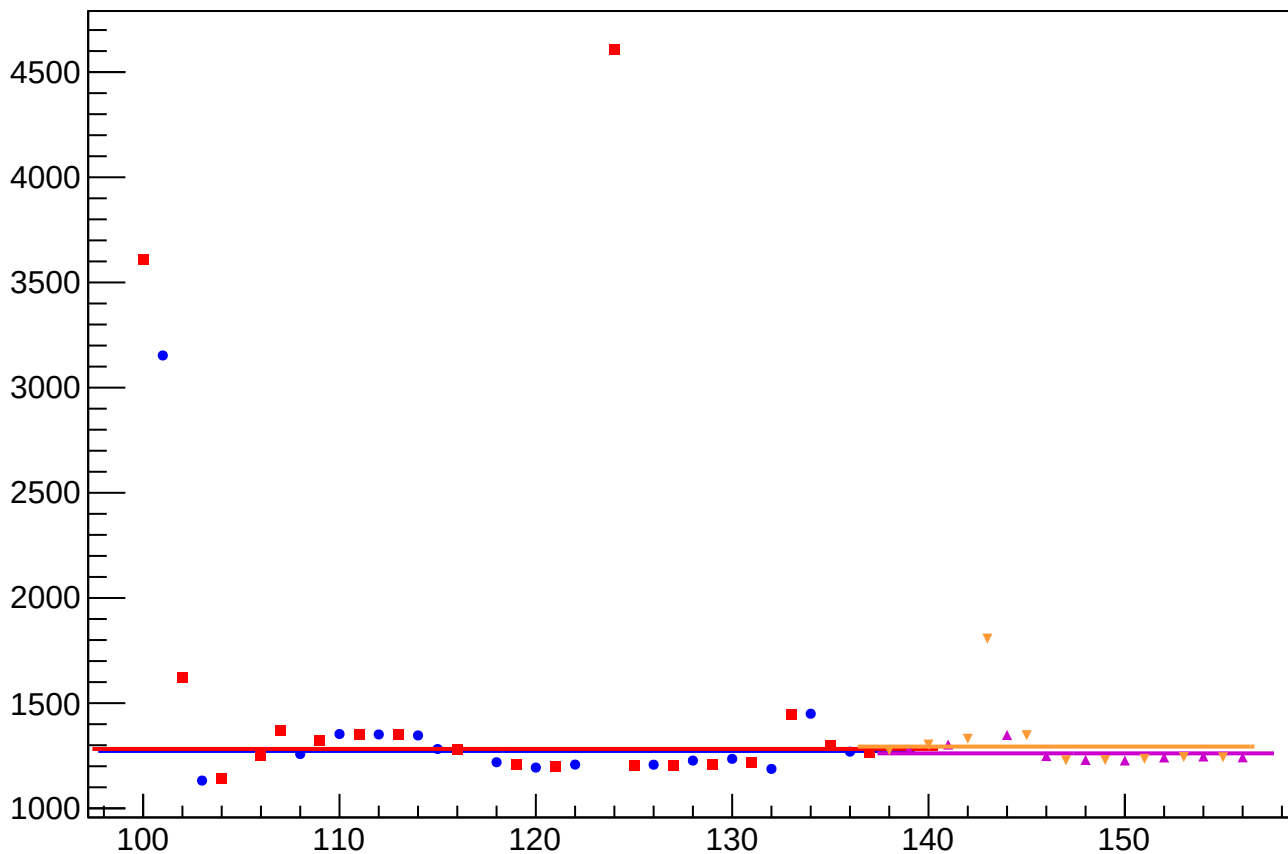
Right: 56.858+/-340.452 χ^2/NDF : 36.3/34

In: 30.799+/-329.302 χ^2/NDF : 25.5/24

Out: -404.561+/-333.711 χ^2/NDF : 32.8/28

All: -183.986+/-234.395 χ^2/NDF : 59.2/53

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: 1293.541+/-0.328 χ^2/NDF : 153867.4/9

Right Out: 1282.365+/-0.340 χ^2/NDF : 322078.6/18

Left In: 1261.338+/-0.319 χ^2/NDF : 13354.0/8

Left: 1276.974+/-0.229 χ^2/NDF : 172181.3/18

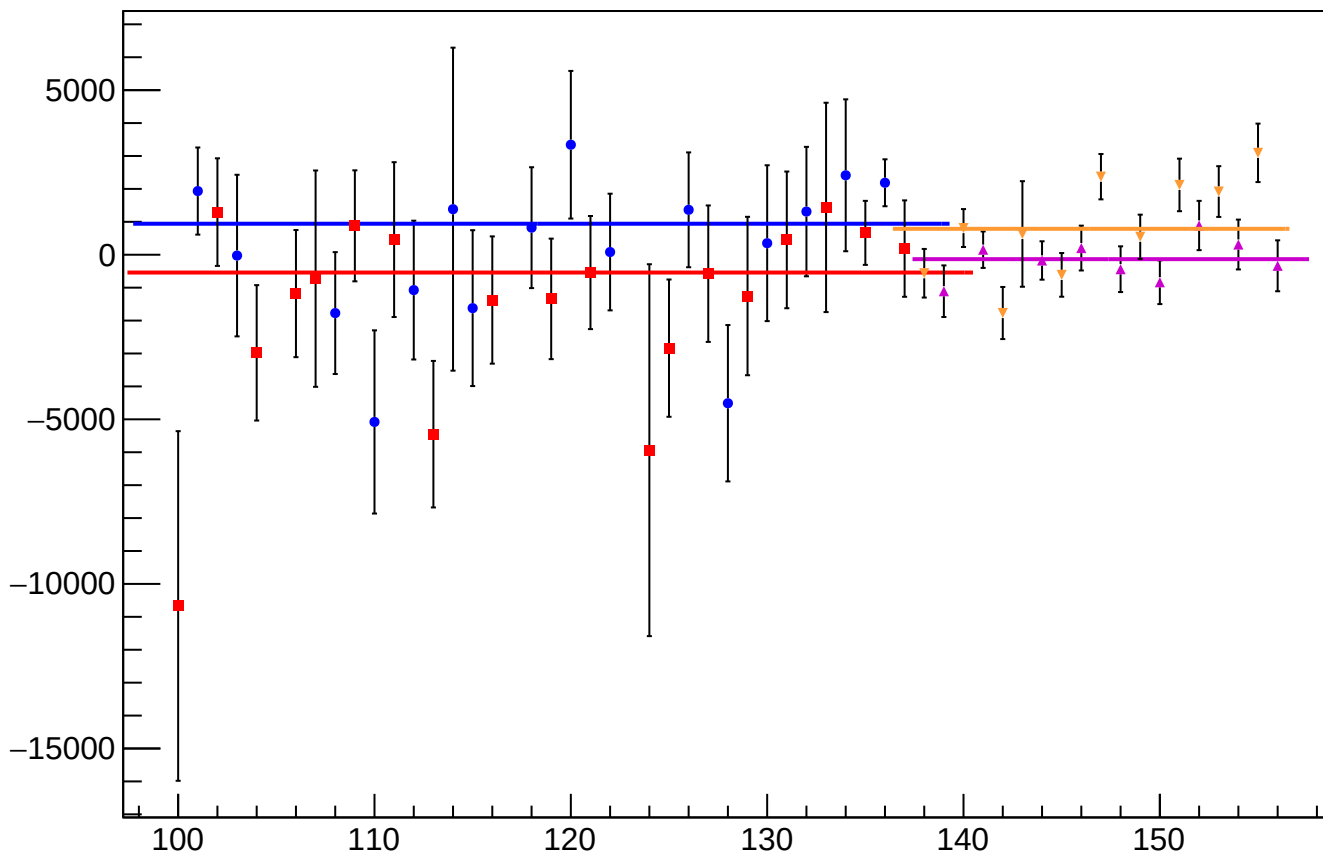
Right: 1277.604+/-0.241 χ^2/NDF : 841771.1/34

In: 1266.680+/-0.233 χ^2/NDF : 533255.6/24

Out: 1288.150+/-0.236 χ^2/NDF : 476506.0/28

All: 1277.273+/-0.166 χ^2/NDF : 1013956.0/53

asym_at1_dd_at2_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 $\chi^2/\text{NDF}: 19.9/15$

Left Out: 787.477 ± 236.066 $\chi^2/\text{NDF}: 35.4/9$

Right Out: -540.622 ± 439.905 $\chi^2/\text{NDF}: 17.2/18$

Left In: -134.381 ± 226.310 $\chi^2/\text{NDF}: 5.7/8$

Left: 307.107 ± 163.366 $\chi^2/\text{NDF}: 49.0/18$

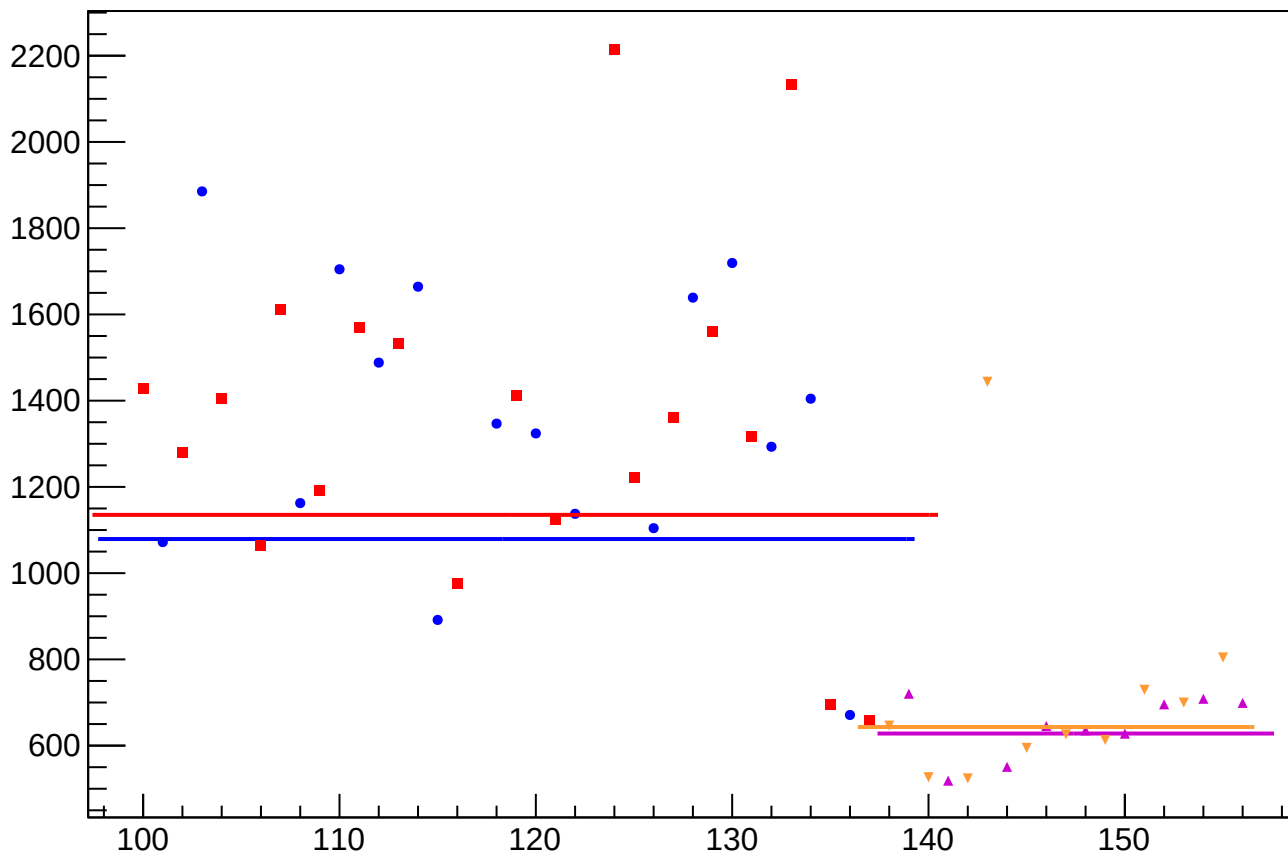
Right: 224.651 ± 305.965 $\chi^2/\text{NDF}: 42.9/34$

In: 102.623 ± 199.842 $\chi^2/\text{NDF}: 30.5/24$

Out: 490.535 ± 208.008 $\chi^2/\text{NDF}: 59.6/28$

All: 288.815 ± 144.110 $\chi^2/\text{NDF}: 91.9/53$

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120 $\pm$ 0.301 χ^2 /NDF: 1482232.0/15

Left Out: 643.162 $\pm$ 0.167 χ^2 /NDF: 741641.0/9

Right Out: 1135.161 $\pm$ 0.311 χ^2 /NDF: 1293082.2/18

Left In: 628.063 $\pm$ 0.160 χ^2 /NDF: 198002.0/8

Left: 635.294 $\pm$ 0.116 χ^2 /NDF: 943906.2/18

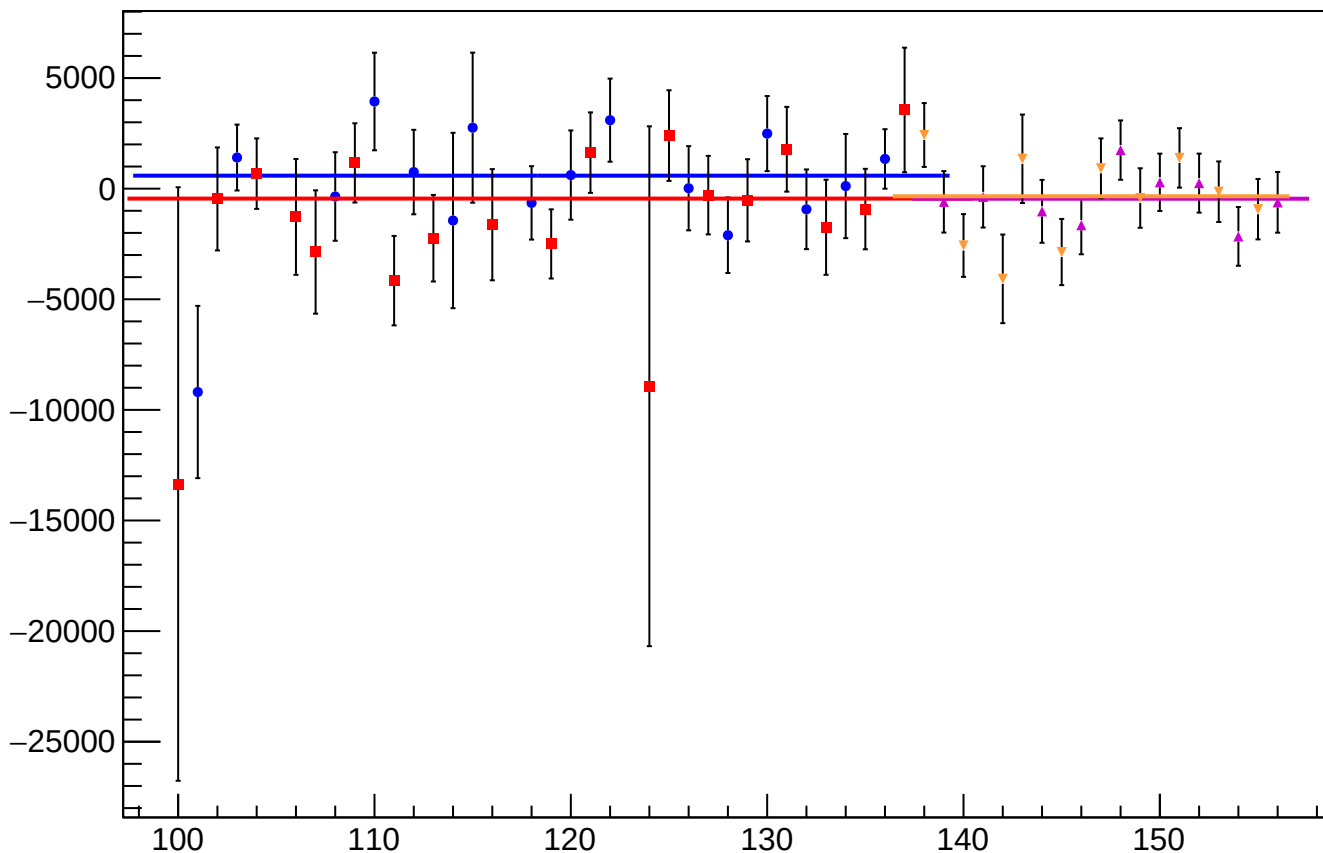
Right: 1106.230 $\pm$ 0.216 χ^2 /NDF: 2792070.7/34

In: 727.402 $\pm$ 0.141 χ^2 /NDF: 3429956.1/24

Out: 753.165 $\pm$ 0.147 χ^2 /NDF: 3977109.0/28

All: 739.768 $\pm$ 0.102 χ^2 /NDF: 7423019.8/53

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: -344.596+/-463.806 χ^2/NDF :15.9/9

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -454.378+/-450.602 χ^2/NDF :6.0/8

Left: -401.072+/-323.191 χ^2/NDF : 21.9/18

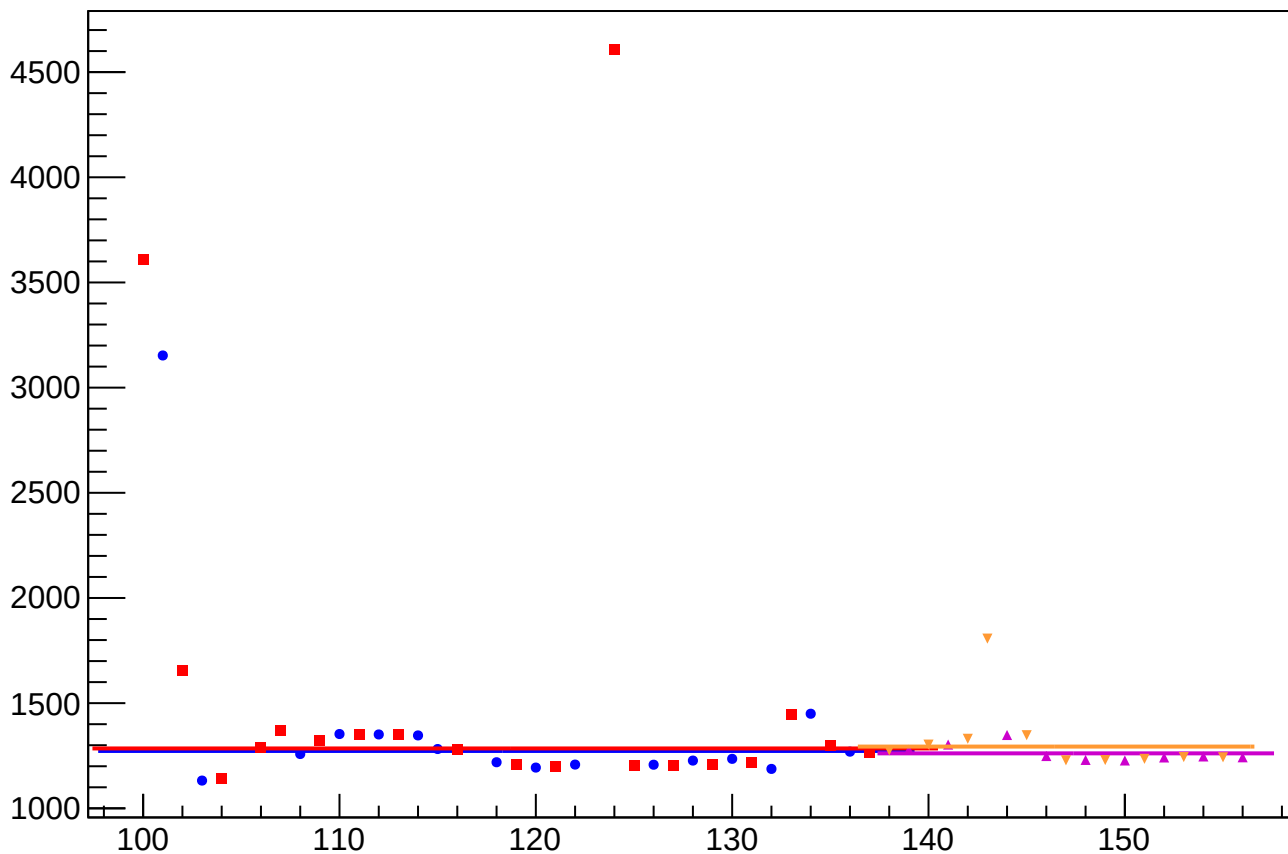
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 30.942+/-329.302 χ^2/NDF :25.5/24

Out: -394.579+/-333.985 χ^2/NDF :32.8/28

All: -178.815+/-234.490 χ^2/NDF : 59.1/53

cor_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804 $\pm$ 0.341 χ^2 /NDF: 519299.6/15

Left Out: 1293.541 $\pm$ 0.328 χ^2 /NDF: 153867.4/9

Right Out: 1284.654 $\pm$ 0.340 χ^2 /NDF: 328734.9/18

Left In: 1261.338 $\pm$ 0.319 χ^2 /NDF: 13354.0/8

Left: 1276.974 $\pm$ 0.229 χ^2 /NDF: 172181.3/18

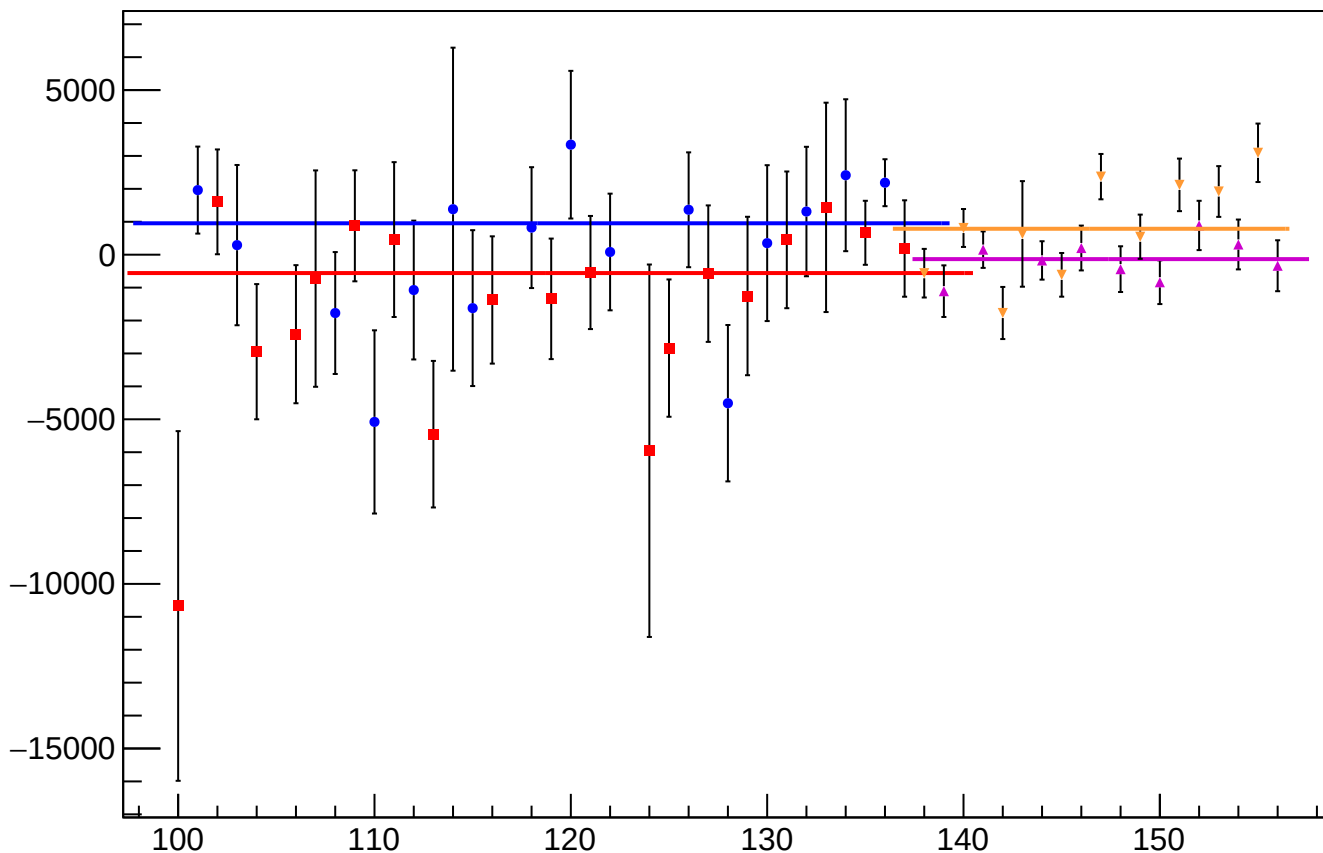
Right: 1278.743 $\pm$ 0.241 χ^2 /NDF: 848639.3/34

In: 1266.680 $\pm$ 0.233 χ^2 /NDF: 533257.0/24

Out: 1289.262 $\pm$ 0.236 χ^2 /NDF: 482955.8/28

All: 1277.812 $\pm$ 0.166 χ^2 /NDF: 1020849.0/53

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: 787.460 $\pm$ 236.068 χ^2 /NDF:35.4/9

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -134.398 $\pm$ 226.309 χ^2 /NDF:5.7/8

Left: 307.082 $\pm$ 163.366 χ^2 /NDF: 49.0/18

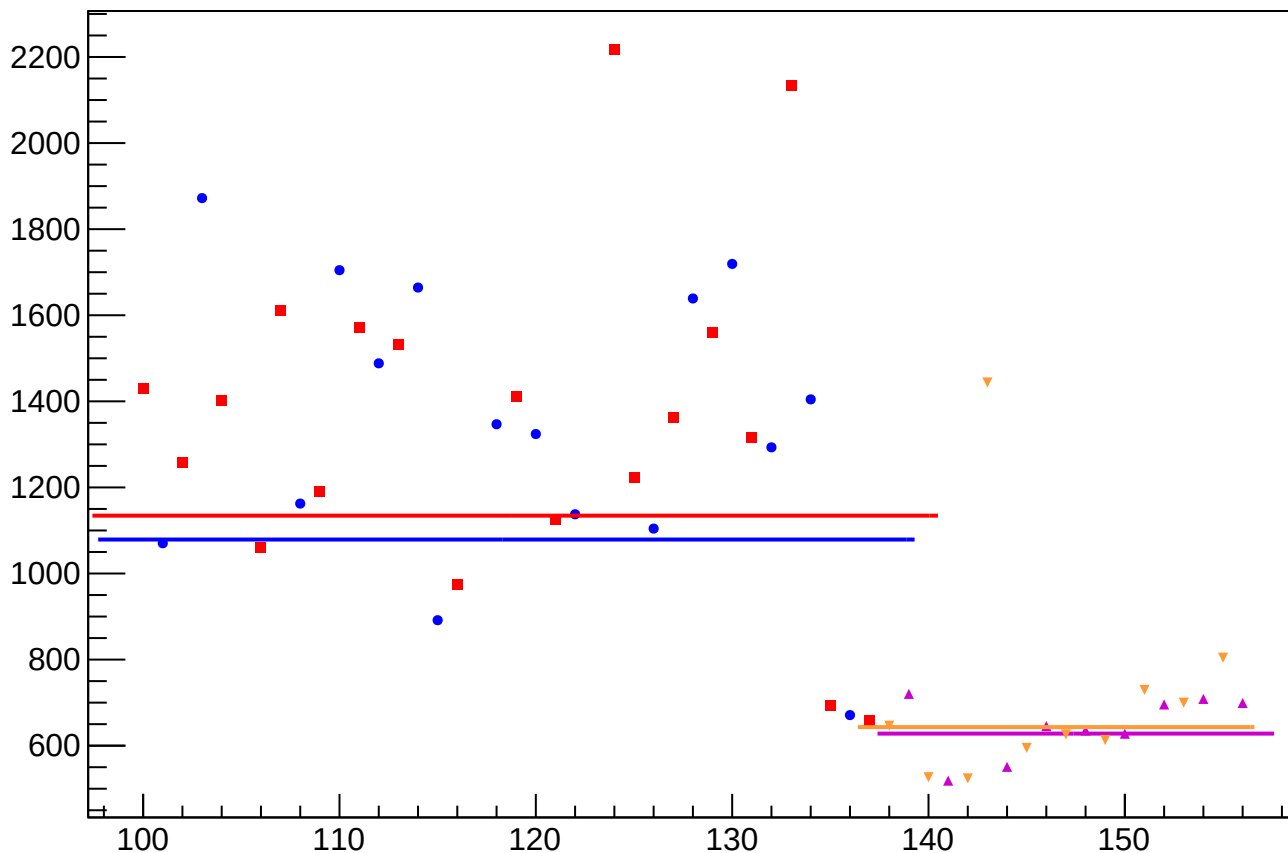
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 105.490 $\pm$ 199.822 χ^2 /NDF:30.6/24

Out: 487.549 $\pm$ 208.100 χ^2 /NDF:61.0/28

All: 288.770 $\pm$ 144.133 χ^2 /NDF: 93.3/53

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: 643.170 $\pm$ 0.167 χ^2 /NDF: 741550.9/9

Right Out: 1134.428 $\pm$ 0.312 χ^2 /NDF: 1288899.2/18

Left In: 628.058 $\pm$ 0.160 χ^2 /NDF: 198027.0/8

Left: 635.295 $\pm$ 0.116 χ^2 /NDF: 943848.8/18

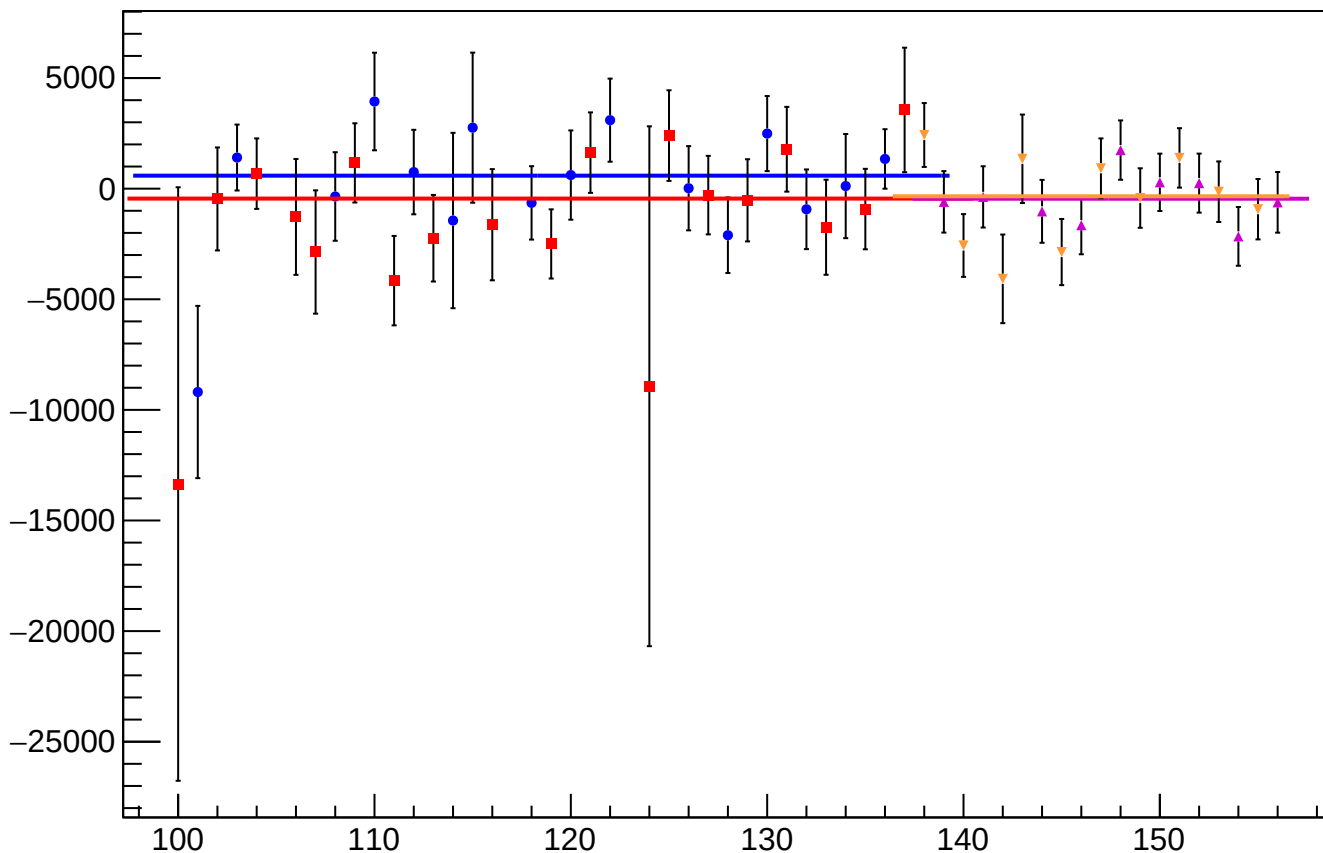
Right: 1105.713 $\pm$ 0.217 χ^2 /NDF: 2784024.9/34

In: 727.419 $\pm$ 0.141 χ^2 /NDF: 3426186.8/24

Out: 752.680 $\pm$ 0.147 χ^2 /NDF: 3961155.3/28

All: 739.537 $\pm$ 0.102 χ^2 /NDF: 7402674.3/53

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 587.254 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -344.596 $\pm$ 463.806 χ^2 /NDF:15.9/9

Right Out: -448.412 $\pm$ 481.333 χ^2 /NDF: 16.8/18

Left In: -454.378 $\pm$ 450.602 χ^2 /NDF:6.0/8

Left: -401.072 $\pm$ 323.191 χ^2 /NDF: 21.9/18

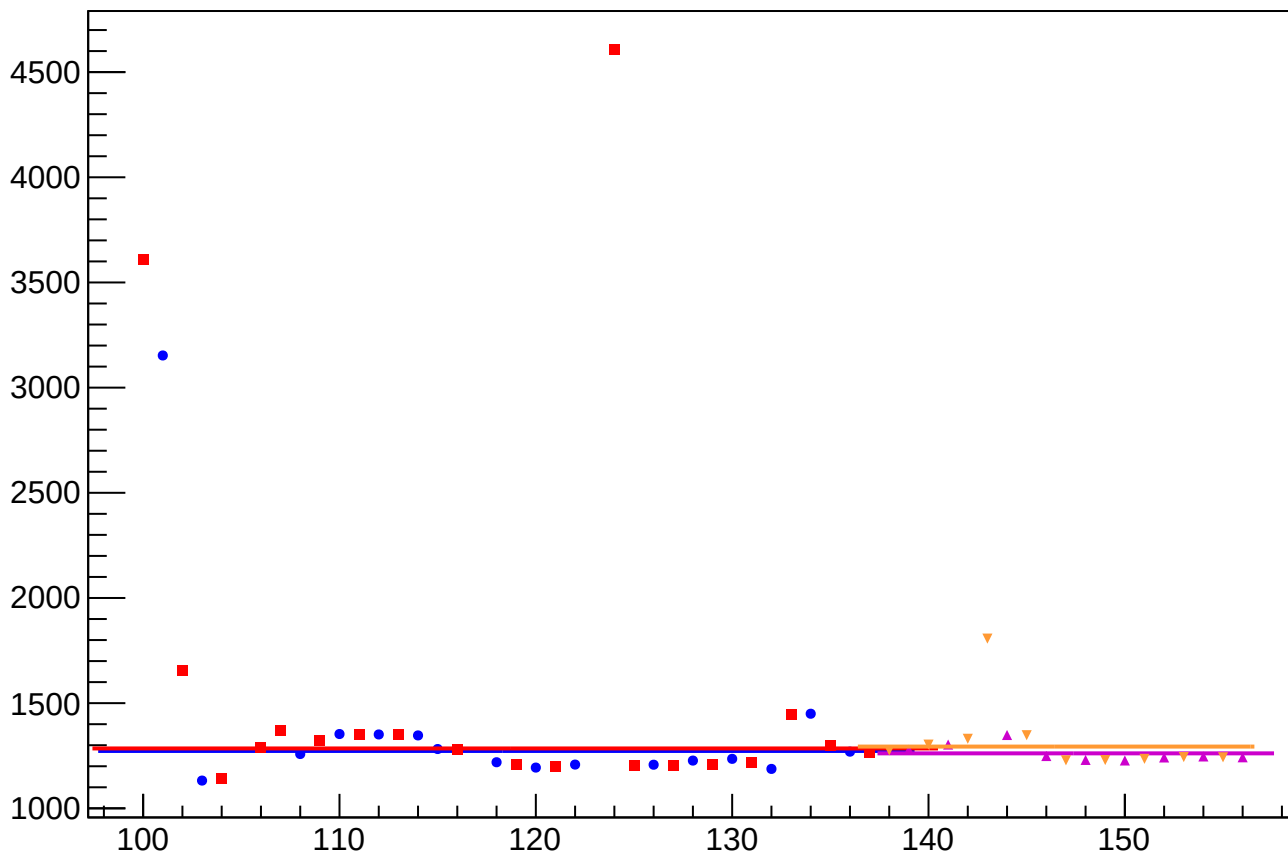
Right: 68.238 $\pm$ 340.742 χ^2 /NDF: 36.2/34

In: 30.942 $\pm$ 329.302 χ^2 /NDF:25.5/24

Out: -394.579 $\pm$ 333.985 χ^2 /NDF:32.8/28

All: -178.815 $\pm$ 234.490 χ^2 /NDF: 59.1/53

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: 1293.541+/-0.328 χ^2/NDF : 153867.4/9

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1261.338+/-0.319 χ^2/NDF : 13354.0/8

Left: 1276.974+/-0.229 χ^2/NDF : 172181.3/18

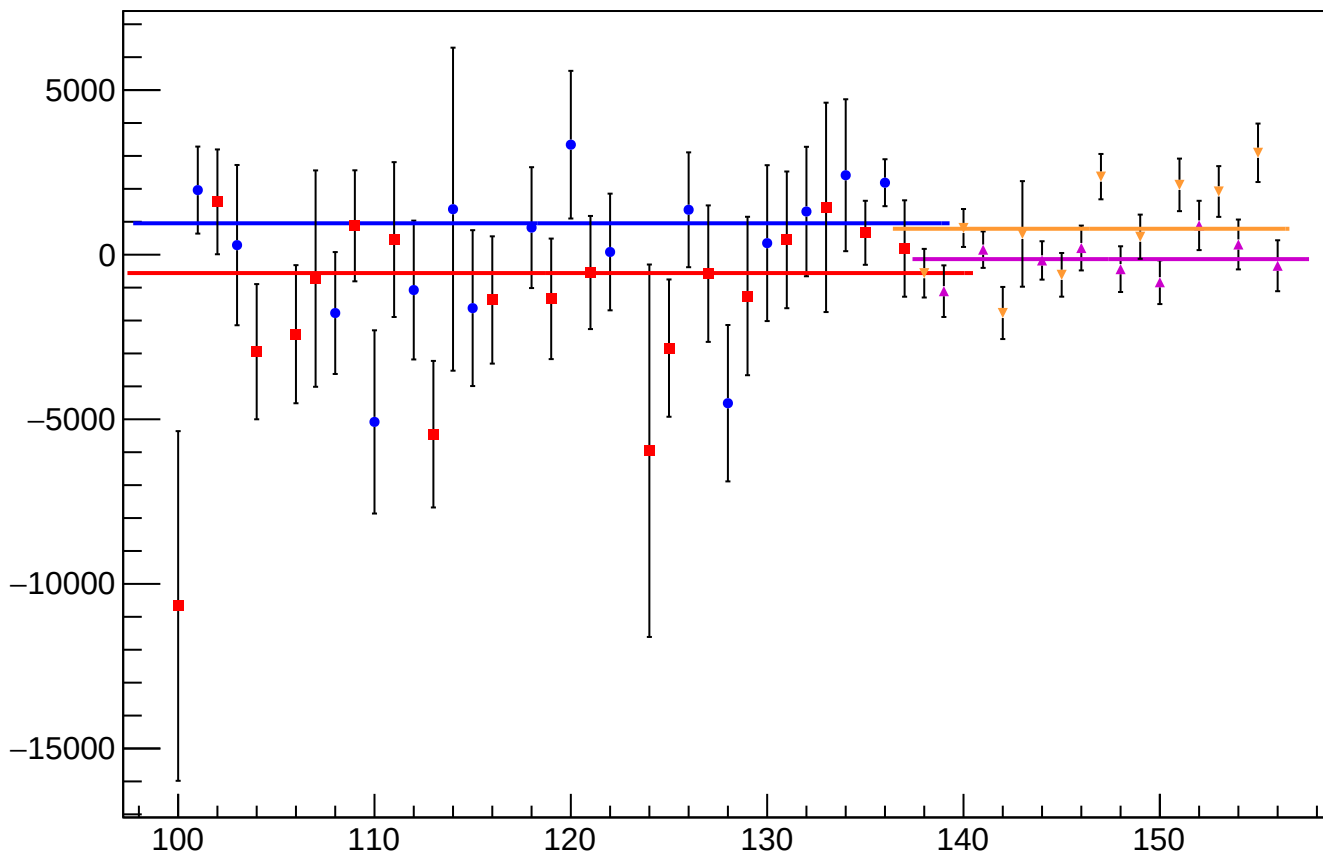
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1266.680+/-0.233 χ^2/NDF : 533257.0/24

Out: 1289.262+/-0.236 χ^2/NDF : 482955.8/28

All: 1277.812+/-0.166 χ^2/NDF : 1020849.0/53

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: 787.460 $\pm$ 236.068 χ^2 /NDF:35.4/9

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -134.398 $\pm$ 226.309 χ^2 /NDF:5.7/8

Left: 307.082 $\pm$ 163.366 χ^2 /NDF: 49.0/18

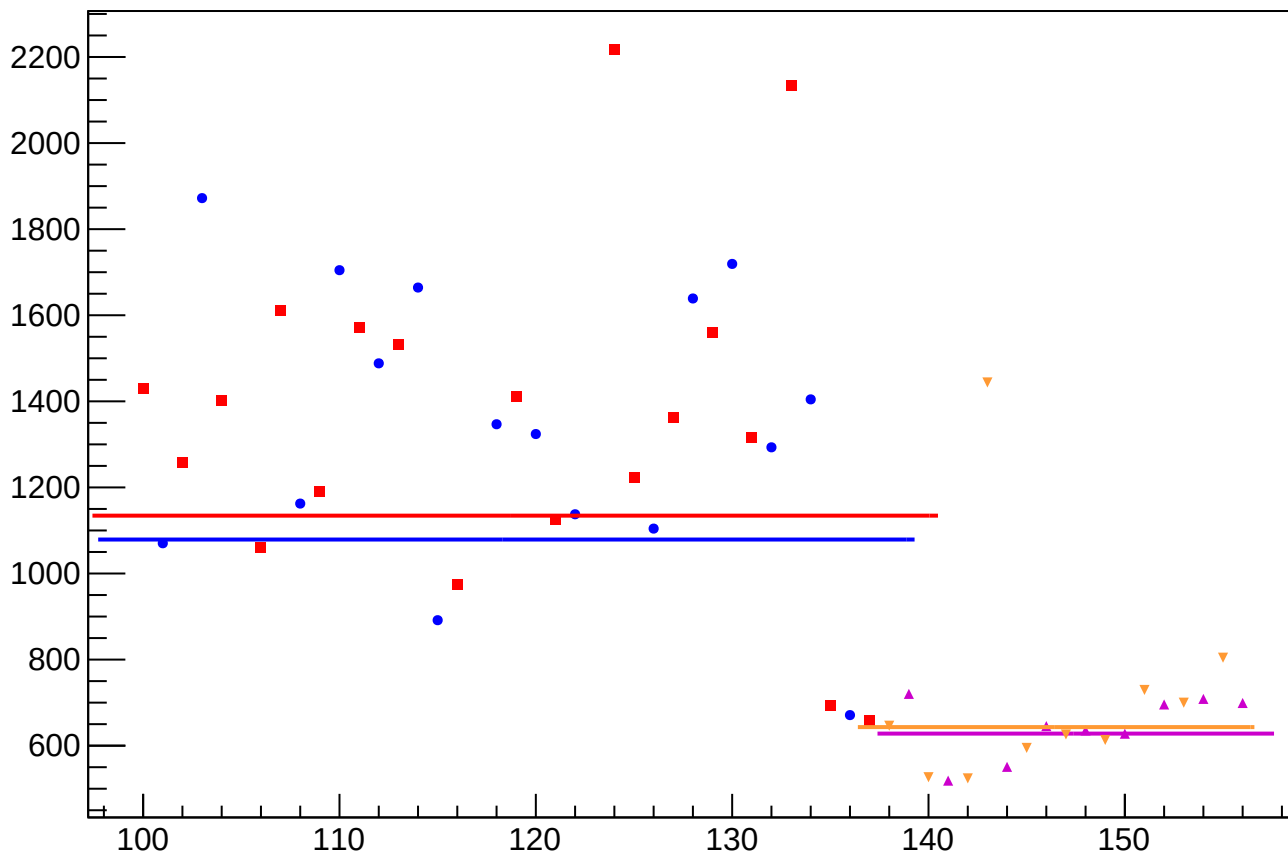
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 105.490 $\pm$ 199.822 χ^2 /NDF:30.6/24

Out: 487.549 $\pm$ 208.100 χ^2 /NDF:61.0/28

All: 288.770 $\pm$ 144.133 χ^2 /NDF: 93.3/53

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932 $\pm$ 0.301 χ^2 /NDF: 1478719.9/15

Left Out: 643.170 $\pm$ 0.167 χ^2 /NDF: 741550.9/9

Right Out: 1134.428 $\pm$ 0.312 χ^2 /NDF: 1288899.2/18

Left In: 628.058 $\pm$ 0.160 χ^2 /NDF: 198027.0/8

Left: 635.295 $\pm$ 0.116 χ^2 /NDF: 943848.8/18

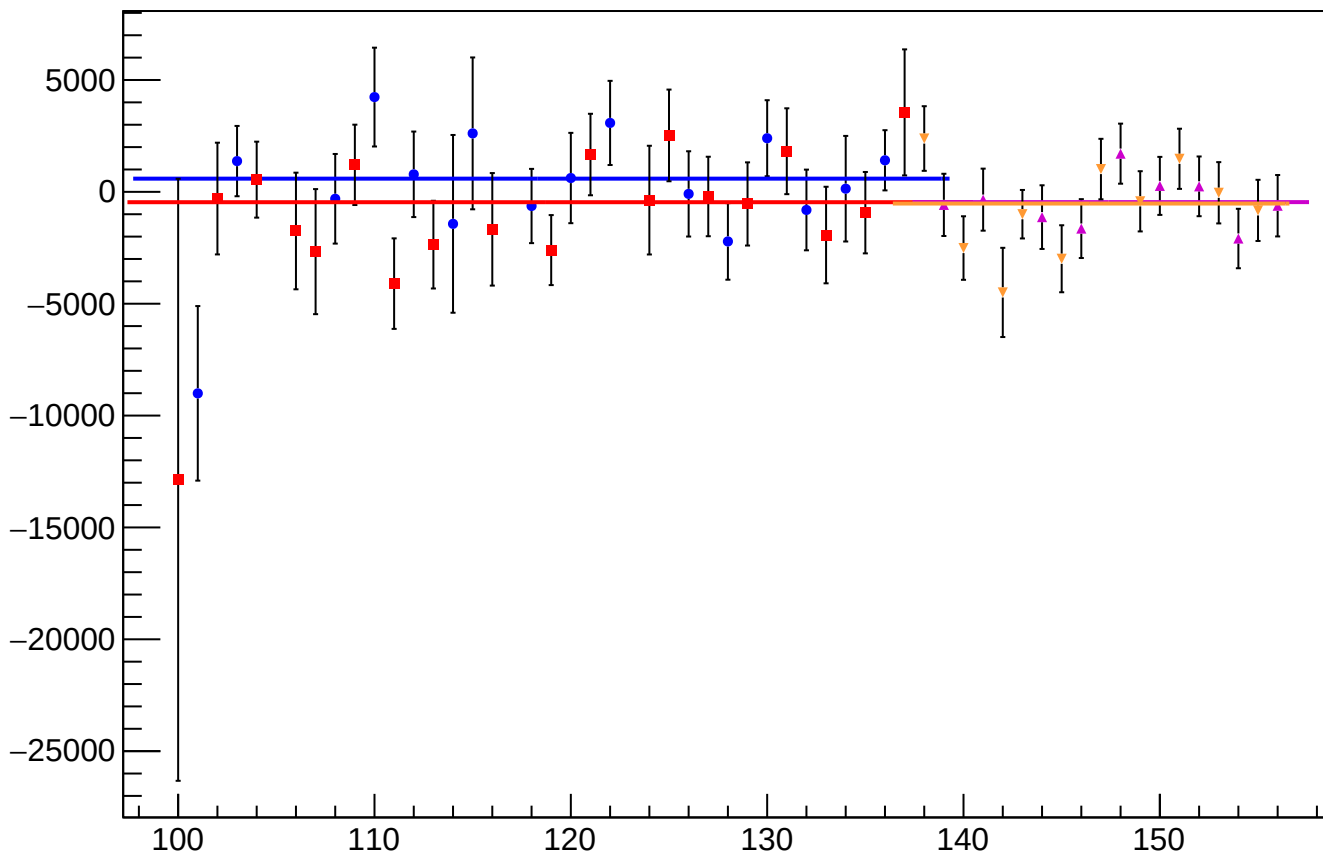
Right: 1105.713 $\pm$ 0.217 χ^2 /NDF: 2784024.9/34

In: 727.419 $\pm$ 0.141 χ^2 /NDF: 3426186.8/24

Out: 752.680 $\pm$ 0.147 χ^2 /NDF: 3961155.3/28

All: 739.537 $\pm$ 0.102 χ^2 /NDF: 7402674.3/53

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: -522.476 $\pm$ 436.627 χ^2 /NDF:16.6/9

Right Out: -462.606 $\pm$ 476.795 χ^2 /NDF: 16.7/18

Left In: -458.421 $\pm$ 450.966 χ^2 /NDF:5.8/8

Left: -491.483 $\pm$ 313.689 χ^2 /NDF: 22.4/18

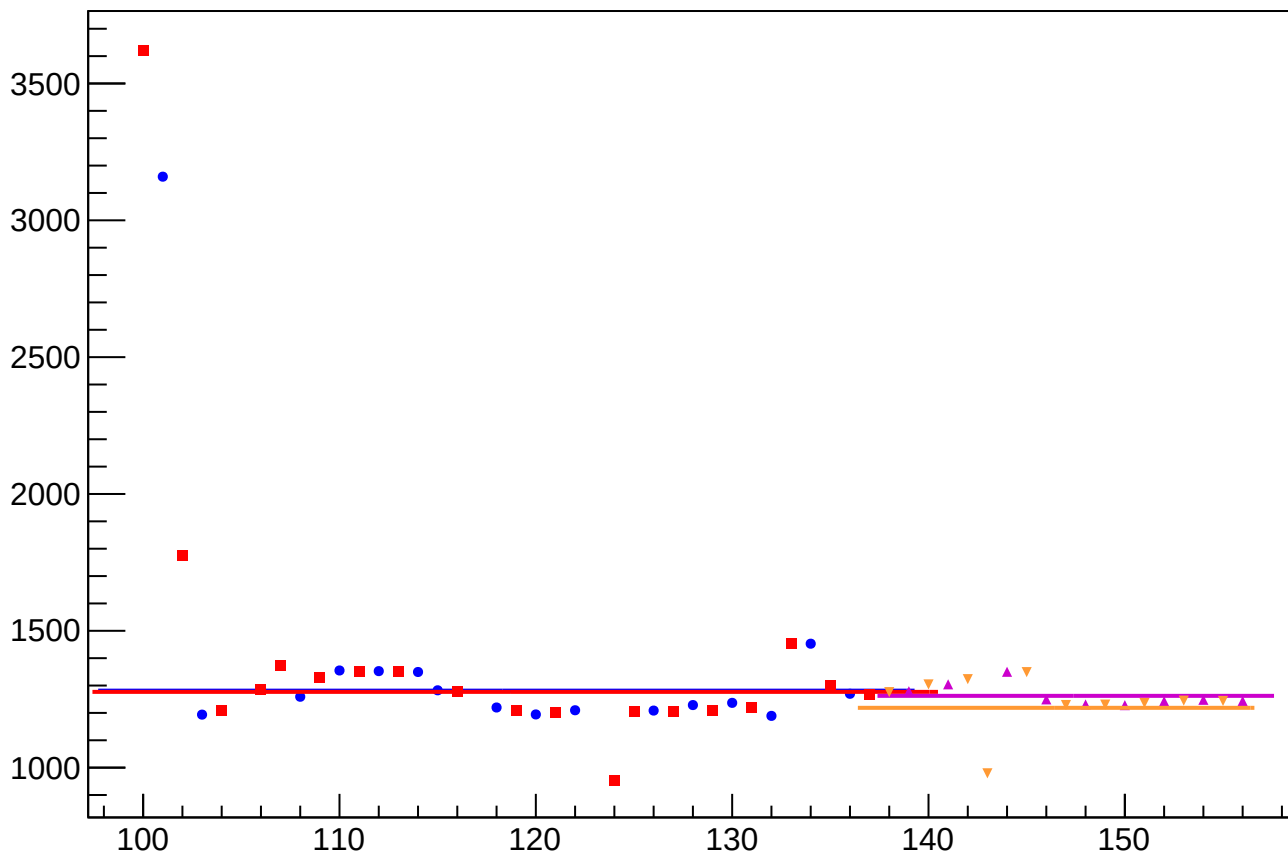
Right: 54.353 $\pm$ 340.175 χ^2 /NDF: 36.2/34

In: 27.347 $\pm$ 330.410 χ^2 /NDF:25.4/24

Out: -495.169 $\pm$ 322.008 χ^2 /NDF:33.3/28

All: -240.639 $\pm$ 230.607 χ^2 /NDF: 59.9/53

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: 1218.582+/-0.309 χ^2/NDF :130614.6/9

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1262.351+/-0.319 χ^2/NDF :13477.6/8

Left: 1239.760+/-0.222 χ^2/NDF : 153816.6/18

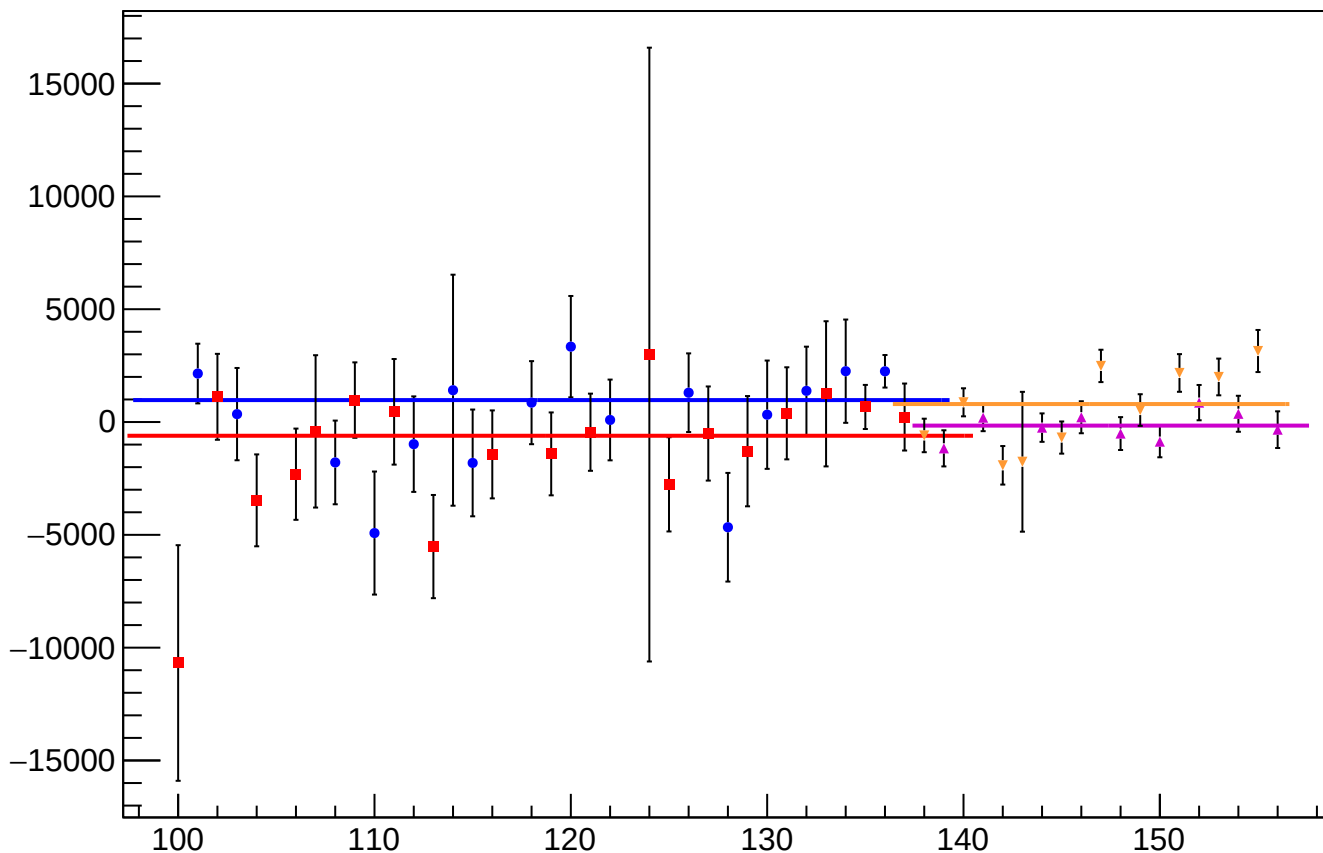
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1271.160+/-0.234 χ^2/NDF :522203.4/24

Out: 1245.163+/-0.228 χ^2/NDF :367379.8/28

All: 1257.827+/-0.163 χ^2/NDF : 895933.3/53

asym_at1_dd_at2_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 $\pm$ 425.219 χ^2 /NDF: 20.4/15

Left Out: 796.847 $\pm$ 250.643 χ^2 /NDF:35.6/9

Right Out: -608.431 $\pm$ 447.734 χ^2 /NDF: 17.1/18

Left In: -158.613 $\pm$ 238.783 χ^2 /NDF:5.7/8

Left: 295.978 $\pm$ 172.886 χ^2 /NDF: 48.9/18

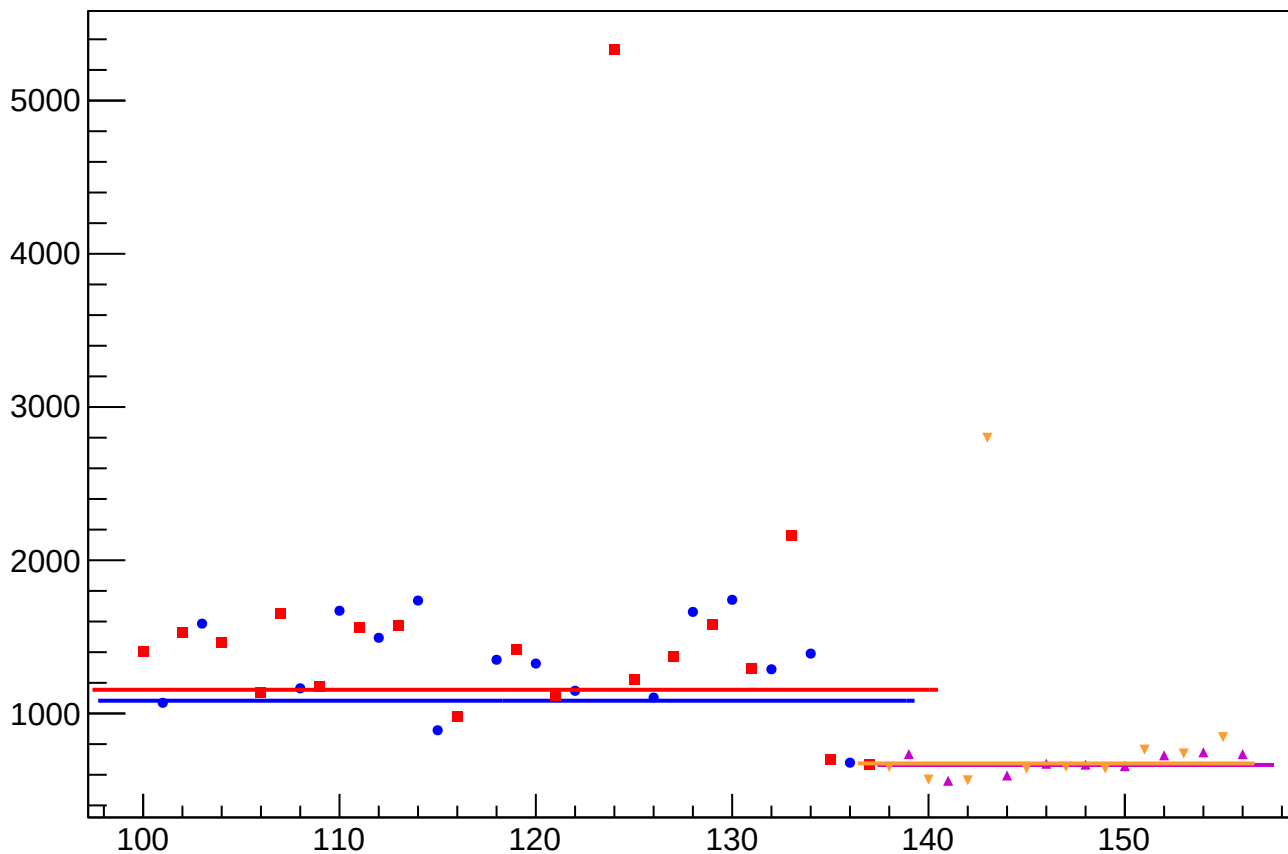
Right: 222.671 $\pm$ 308.328 χ^2 /NDF: 44.1/34

In: 112.512 $\pm$ 208.202 χ^2 /NDF:31.5/24

Out: 461.539 $\pm$ 218.706 χ^2 /NDF:60.2/28

All: 278.443 $\pm$ 150.798 χ^2 /NDF: 93.1/53

asym_at1_dd_at2_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.335 $\pm$ 0.301 χ^2/NDF : 1360153.3/15

Left Out: 673.938 $\pm$ 0.177 χ^2/NDF : 1148174.3/9

Right Out: 1154.724 $\pm$ 0.317 χ^2/NDF : 1488304.5/18

Left In: 663.921 $\pm$ 0.169 χ^2/NDF : 148879.9/8

Left: 668.687 $\pm$ 0.122 χ^2/NDF : 1298728.7/18

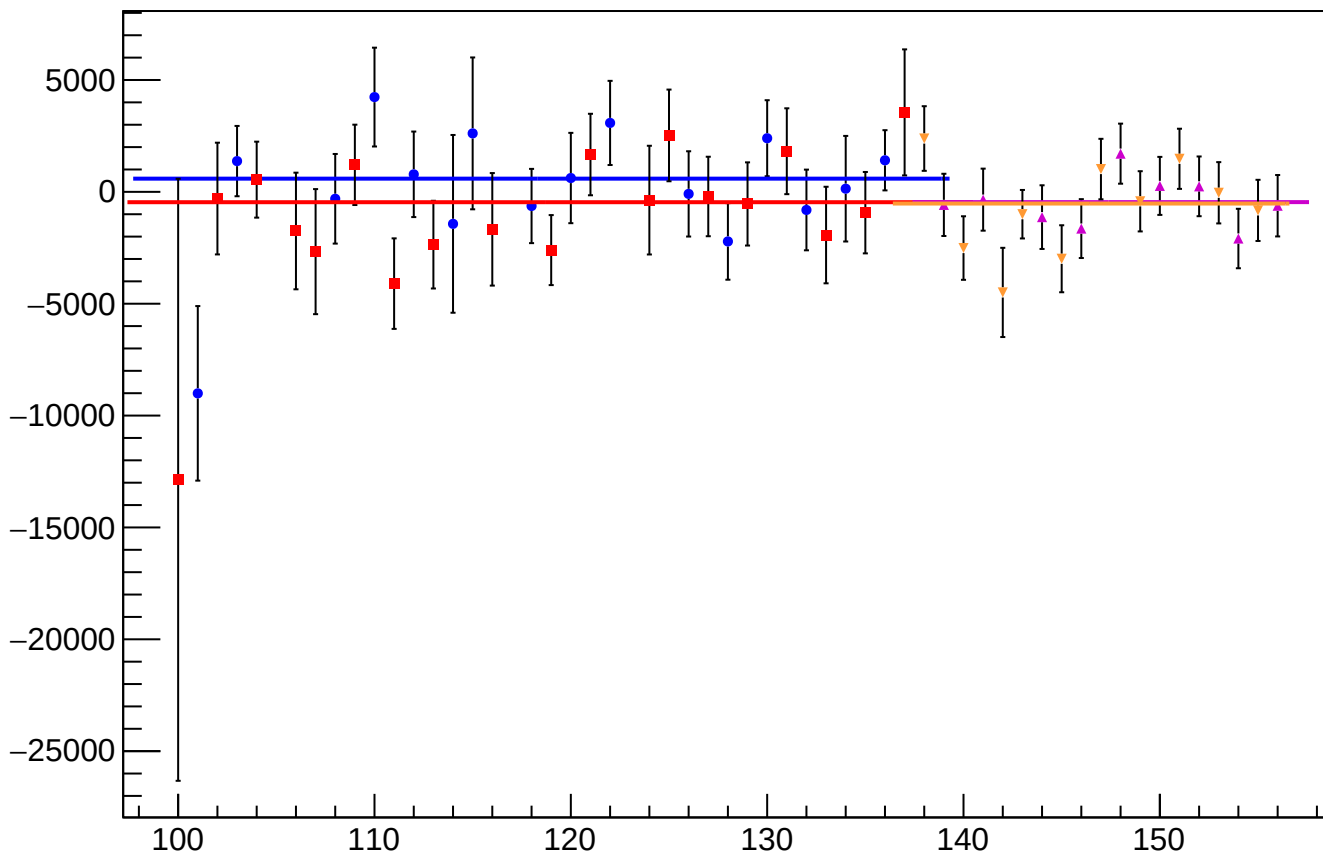
Right: 1117.189 $\pm$ 0.218 χ^2/NDF : 2875191.7/34

In: 764.472 $\pm$ 0.147 χ^2/NDF : 2988315.2/24

Out: 788.656 $\pm$ 0.155 χ^2/NDF : 4392395.0/28

All: 775.970 $\pm$ 0.107 χ^2/NDF : 7393539.1/53

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: -522.478+/-436.627 χ^2/NDF : 16.6/9

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -458.424+/-450.966 χ^2/NDF : 5.8/8

Left: -491.485+/-313.689 χ^2/NDF : 22.4/18

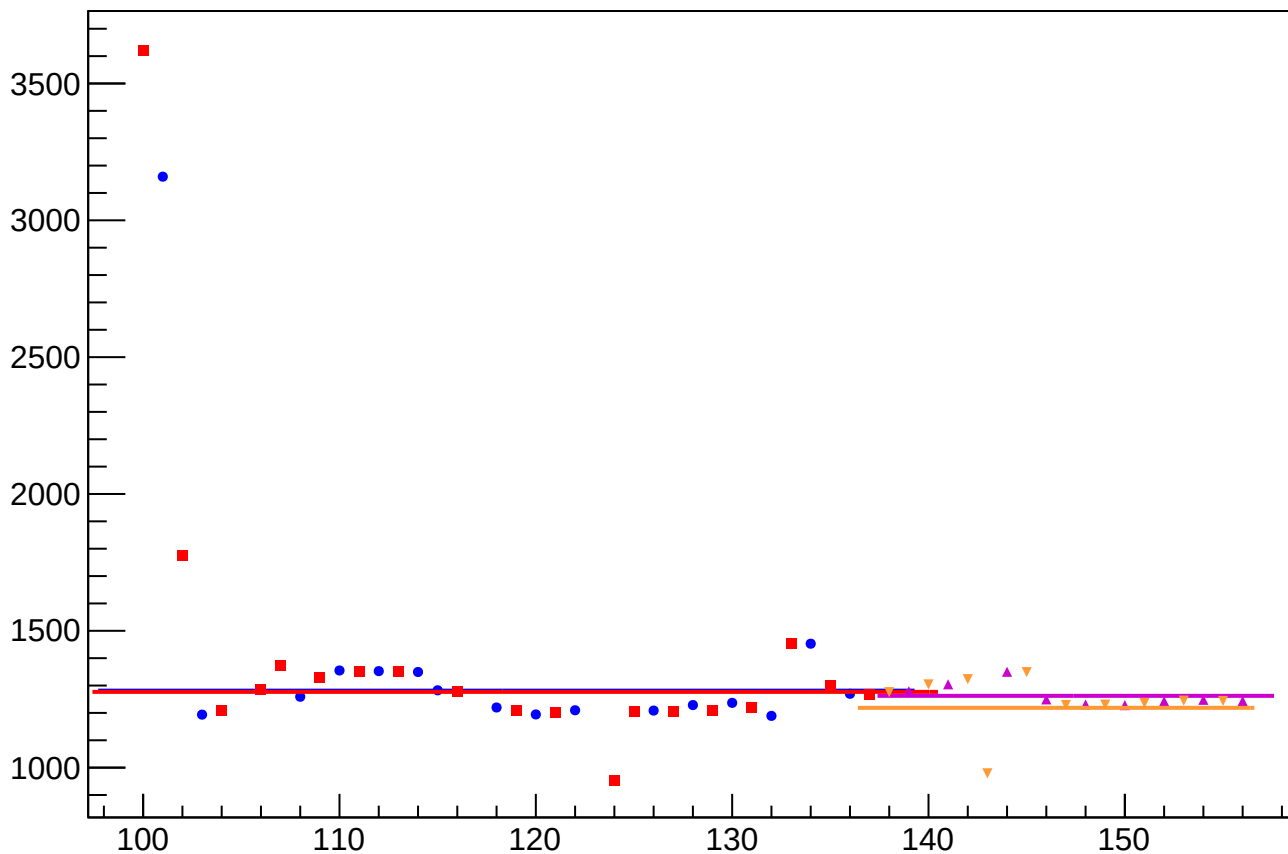
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 27.347+/-330.410 χ^2/NDF : 25.4/24

Out: -495.169+/-322.008 χ^2/NDF : 33.3/28

All: -240.640+/-230.607 χ^2/NDF : 59.9/53

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1281.369 $\pm$ 0.343 χ^2/NDF : 507078.6/15

Left Out: 1218.582 $\pm$ 0.309 χ^2/NDF : 130613.9/9

Right Out: 1276.860 $\pm$ 0.337 χ^2/NDF : 220513.5/18

Left In: 1262.351 $\pm$ 0.319 χ^2/NDF : 13477.6/8

Left: 1239.760 $\pm$ 0.222 χ^2/NDF : 153815.9/18

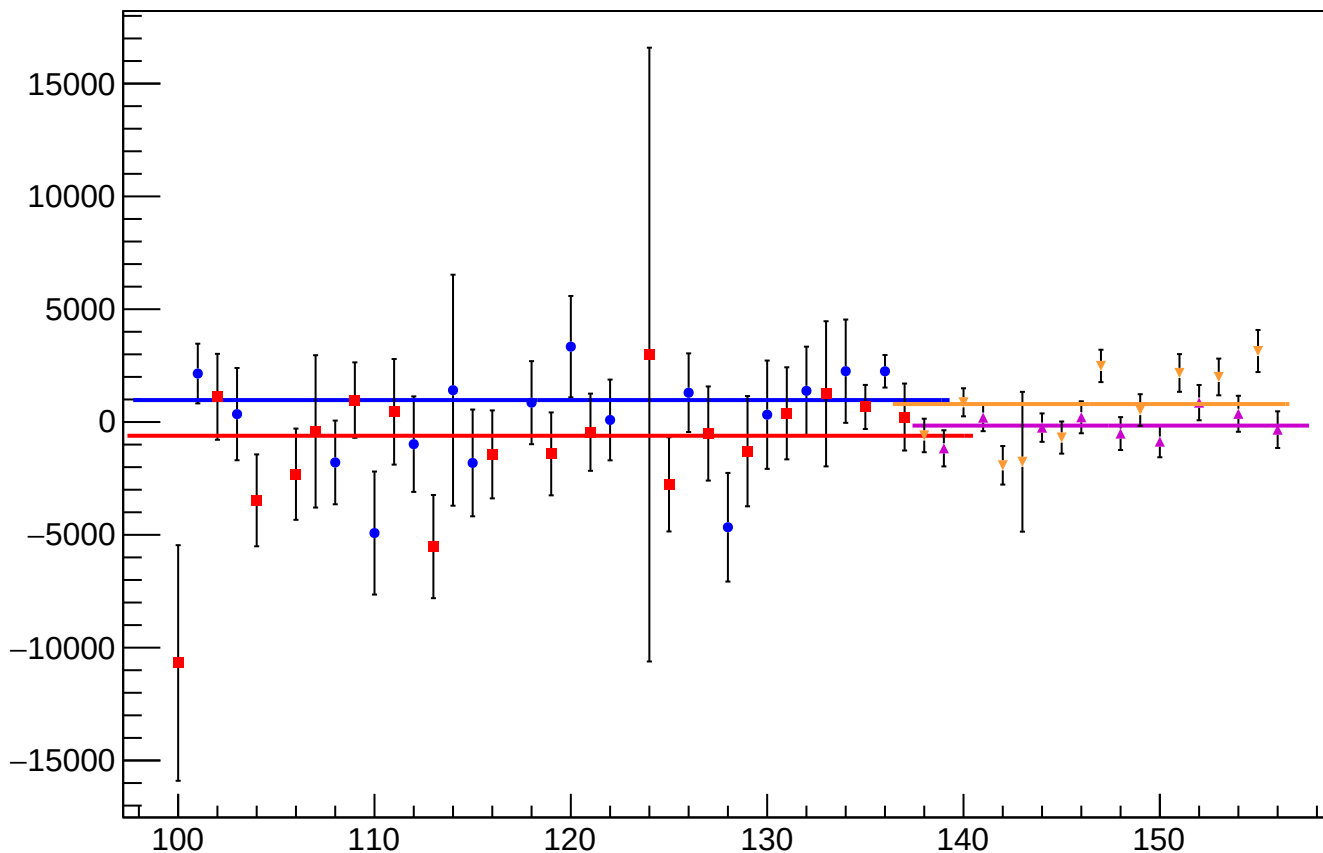
Right: 1279.074 $\pm$ 0.241 χ^2/NDF : 727679.9/34

In: 1271.160 $\pm$ 0.234 χ^2/NDF : 522203.6/24

Out: 1245.163 $\pm$ 0.228 χ^2/NDF : 367378.8/28

All: 1257.827 $\pm$ 0.163 χ^2/NDF : 895932.5/53

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: 796.852+/-250.644 χ^2/NDF :35.6/9

Right Out: -608.441+/-447.736 χ^2/NDF : 17.1/18

Left In: -158.613+/-238.783 χ^2/NDF :5.7/8

Left: 295.979+/-172.886 χ^2/NDF : 48.9/18

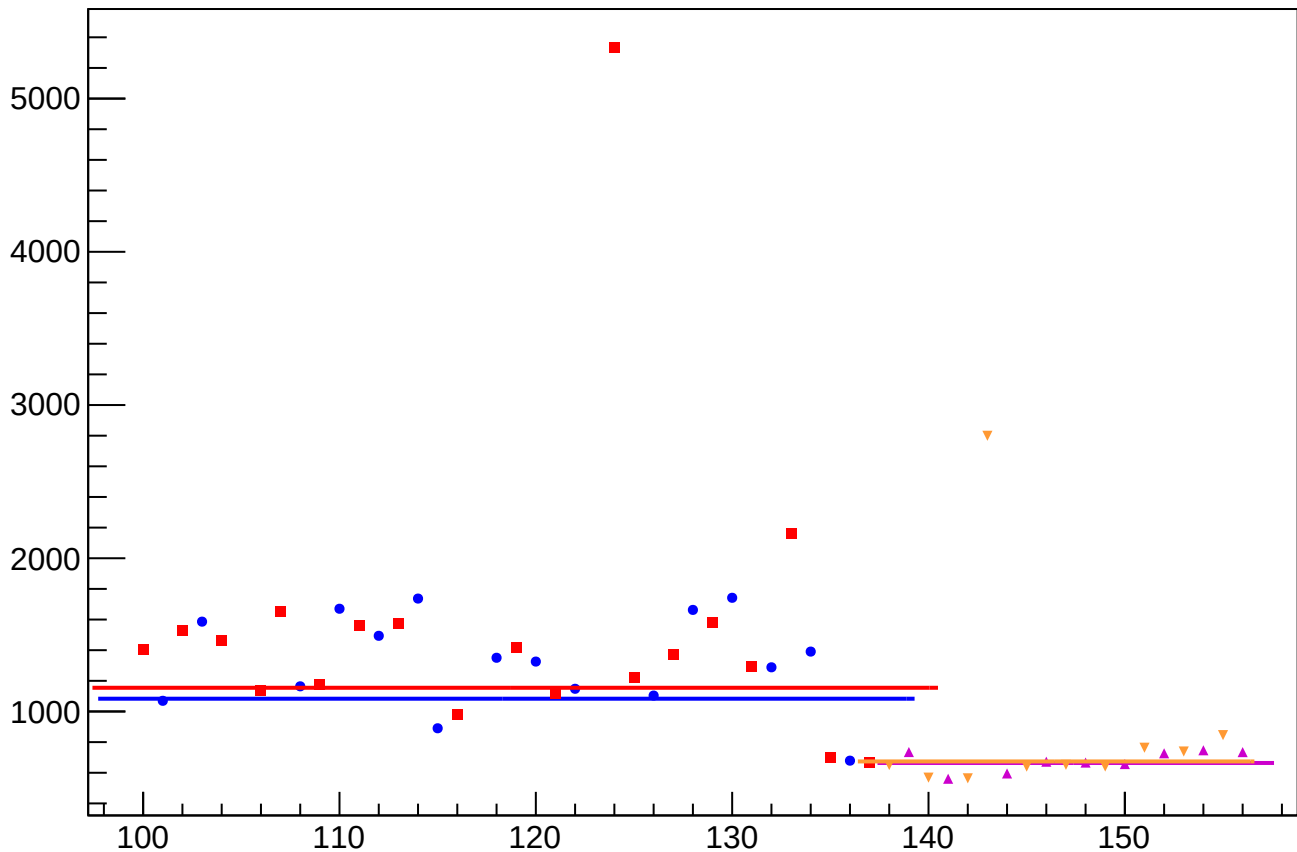
Right: 222.664+/-308.329 χ^2/NDF : 44.1/34

In: 112.508+/-208.202 χ^2/NDF :31.5/24

Out: 461.542+/-218.707 χ^2/NDF :60.2/28

All: 278.442+/-150.798 χ^2/NDF : 93.1/53

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: 673.939+/-0.177 χ^2/NDF : 1148166.9/9

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 663.921+/-0.169 χ^2/NDF : 148881.9/8

Left: 668.687+/-0.122 χ^2/NDF : 1298724.0/18

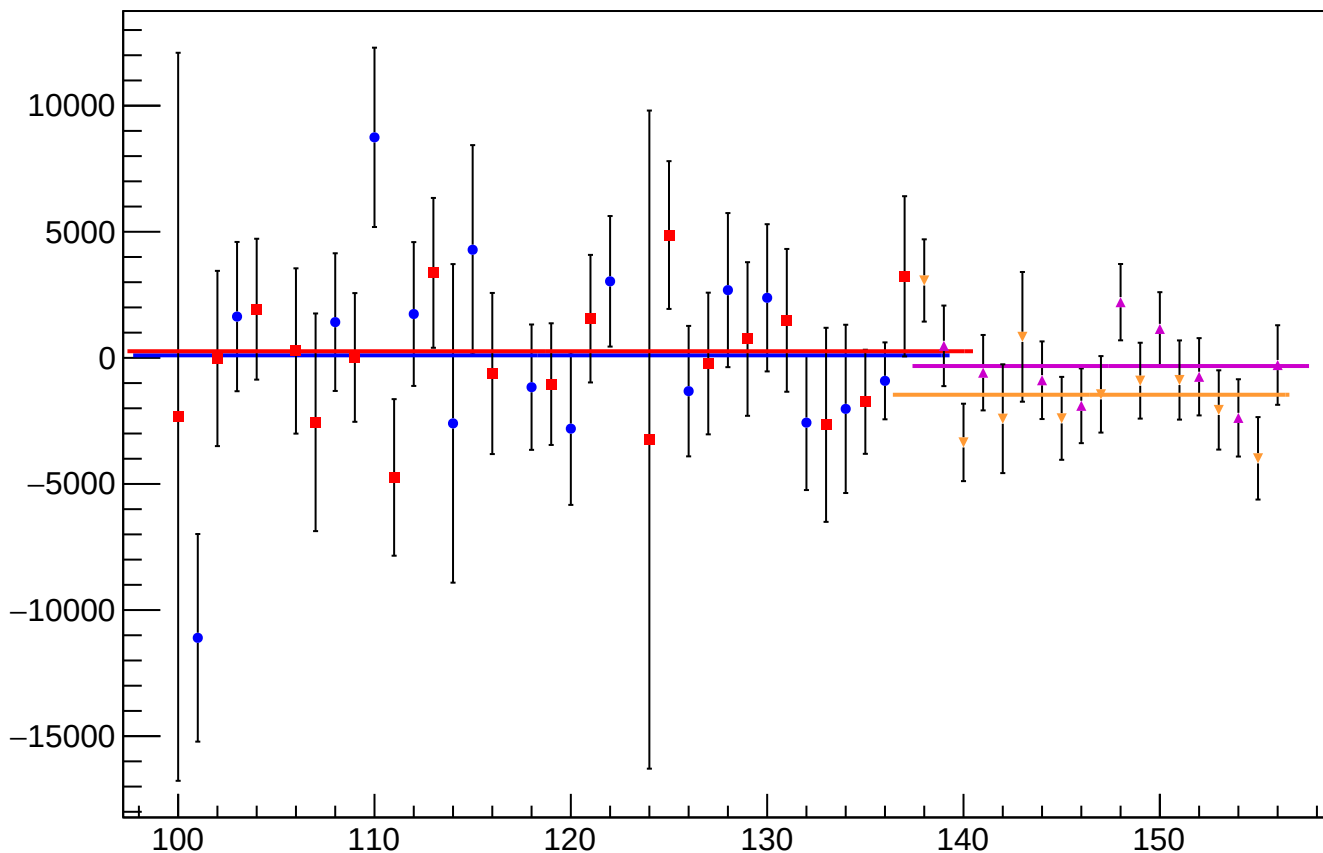
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 764.473+/-0.147 χ^2/NDF : 2988300.4/24

Out: 788.659+/-0.155 χ^2/NDF : 4392363.7/28

All: 775.971+/-0.107 χ^2/NDF : 7393495.1/53

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: -1462.379 $\pm$ 527.266 χ^2 /NDF:13.3/9

Right Out: 262.731 $\pm$ 699.724 χ^2 /NDF: 10.3/18

Left In: -323.941 $\pm$ 507.833 χ^2 /NDF:7.2/8

Left: -871.795 $\pm$ 365.769 χ^2 /NDF: 23.0/18

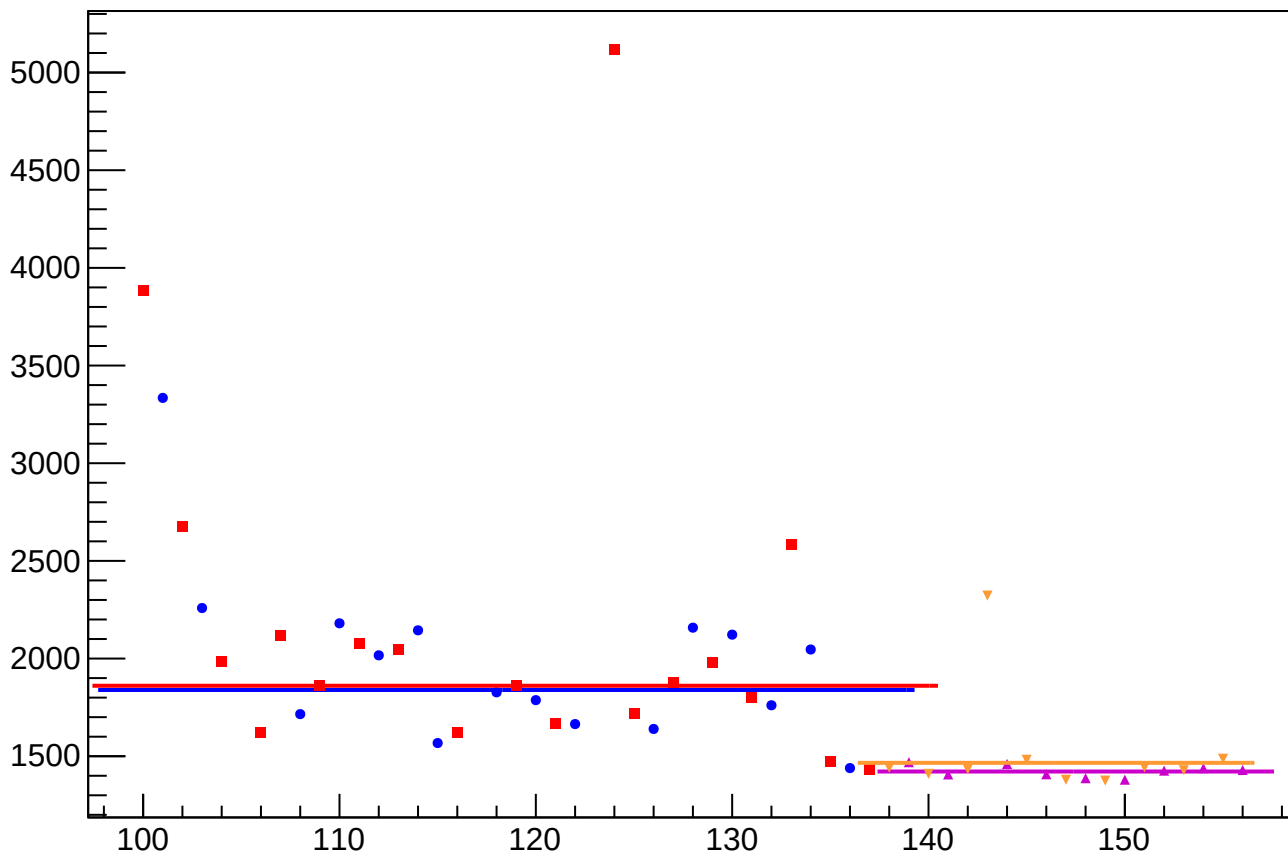
Right: 181.505 $\pm$ 494.518 χ^2 /NDF: 31.6/34

In: -177.320 $\pm$ 410.848 χ^2 /NDF:28.8/24

Out: -837.598 $\pm$ 421.097 χ^2 /NDF:27.6/28

All: -499.326 $\pm$ 294.070 χ^2 /NDF: 57.6/53

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: 1466.140 ± 0.373 χ^2/NDF : 241238.4/9

Right Out: 1860.754 ± 0.495 χ^2/NDF : 522114.2/18

Left In: 1421.699 ± 0.359 χ^2/NDF : 6397.6/8

Left: 1443.086 ± 0.259 χ^2/NDF : 255006.7/18

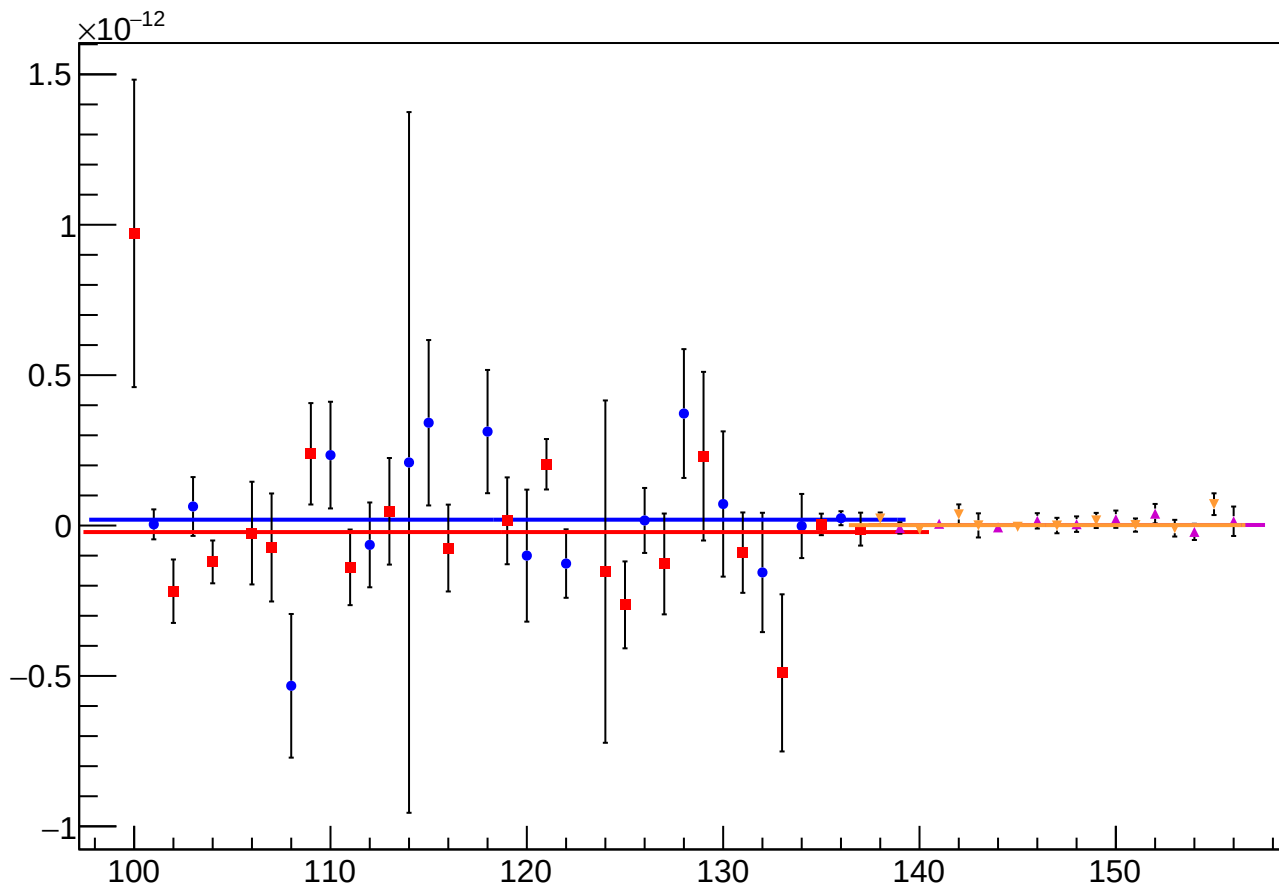
Right: 1849.922 ± 0.350 χ^2/NDF : 1079797.1/34

In: 1565.910 ± 0.291 χ^2/NDF : 1029945.2/24

Out: 1609.059 ± 0.298 χ^2/NDF : 1169078.1/28

All: 1586.953 ± 0.208 χ^2/NDF : 2209781.9/53

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 : 8.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 3.6/8

Left: 0.000+/-0.000 χ^2/NDF : 12.0/18

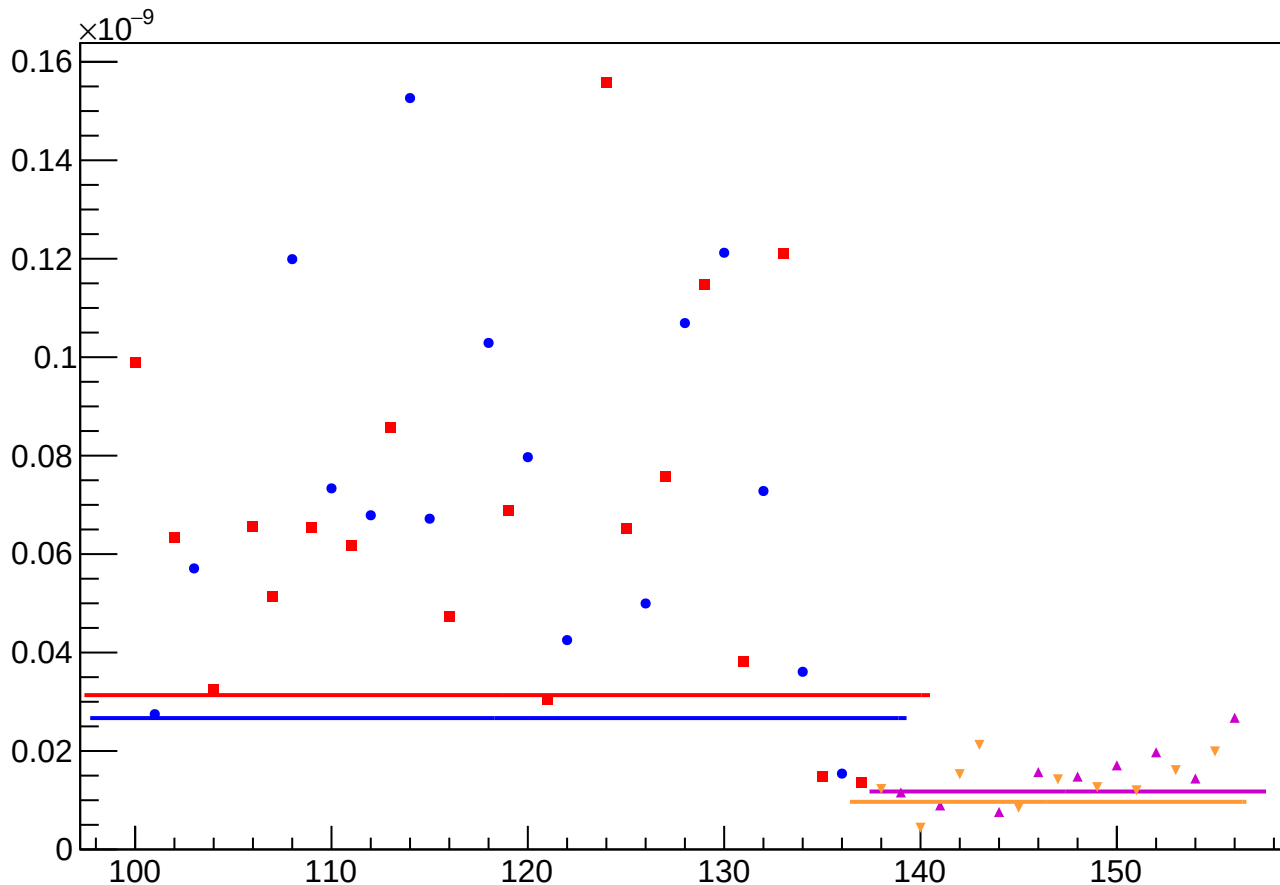
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 20.8/24

Out: -0.000+/-0.000 χ^2/NDF : 37.6/28

All: 0.000+/-0.000 χ^2/NDF : 58.7/53

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 :1135929.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF :728153.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1958687.0/18

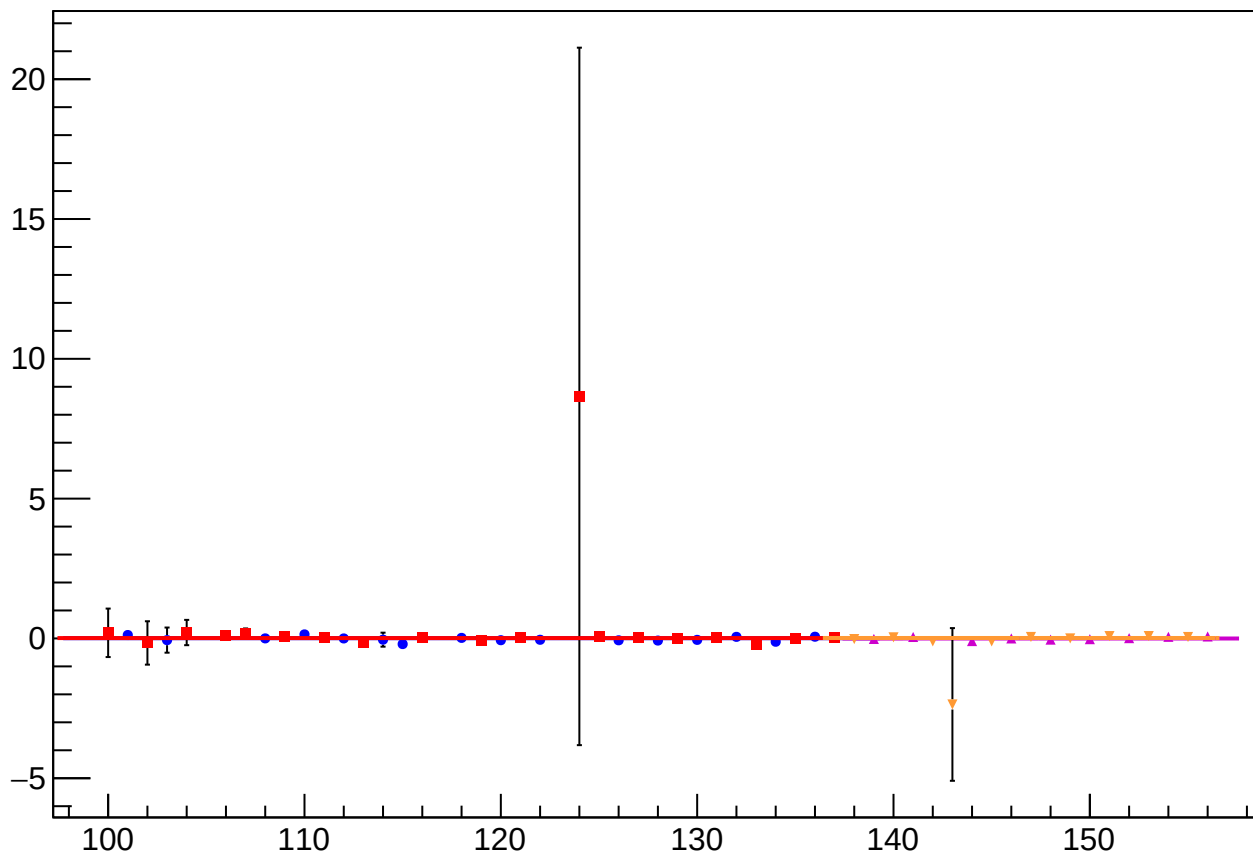
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF :4405051.7/24

Out: 0.000+/-0.000 χ^2/NDF :5156497.4/28

All: 0.000+/-0.000 χ^2/NDF : 9694422.2/53

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

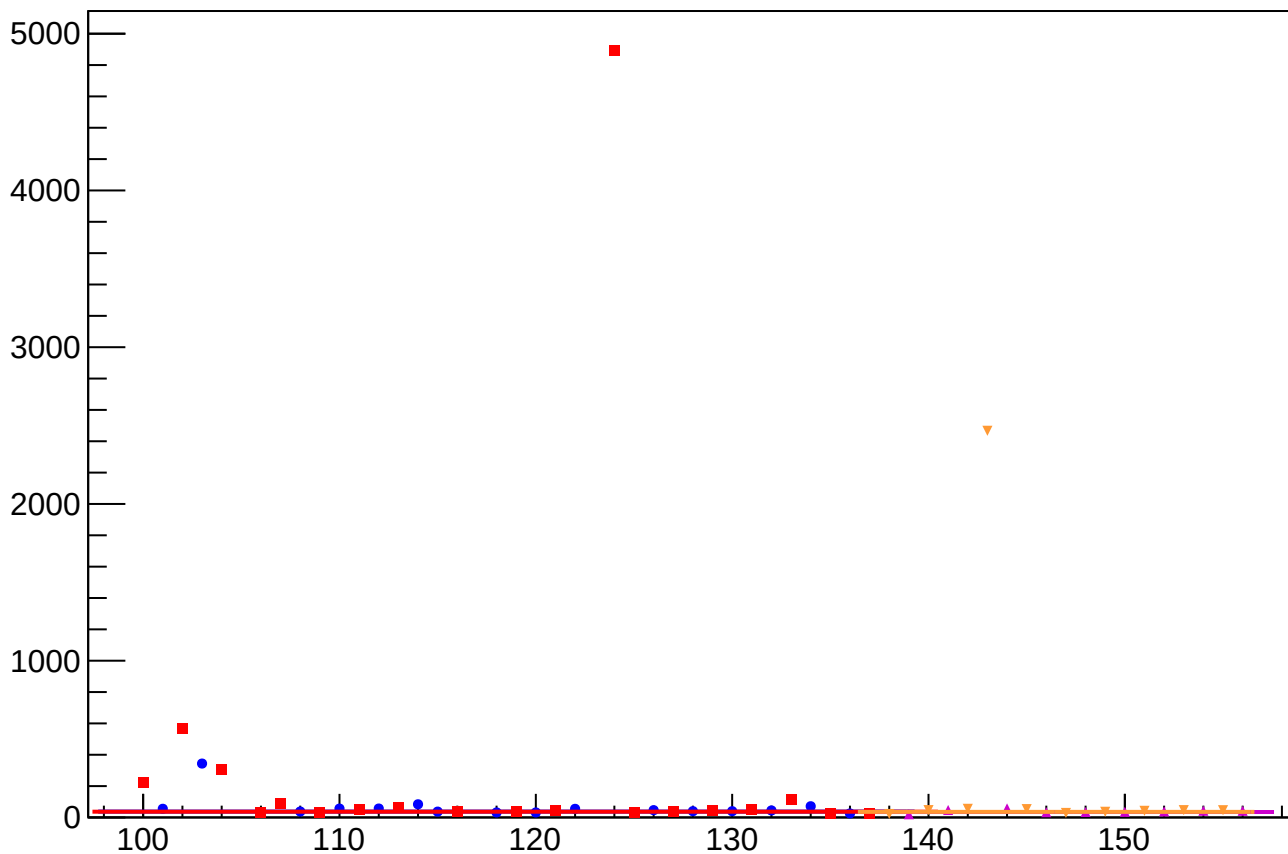
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 35.641 $\pm$ 0.010 χ^2 /NDF: 2680727.1/9

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.713 $\pm$ 0.010 χ^2 /NDF: 1064226.5/8

Left: 35.144 $\pm$ 0.007 χ^2 /NDF: 3749154.3/18

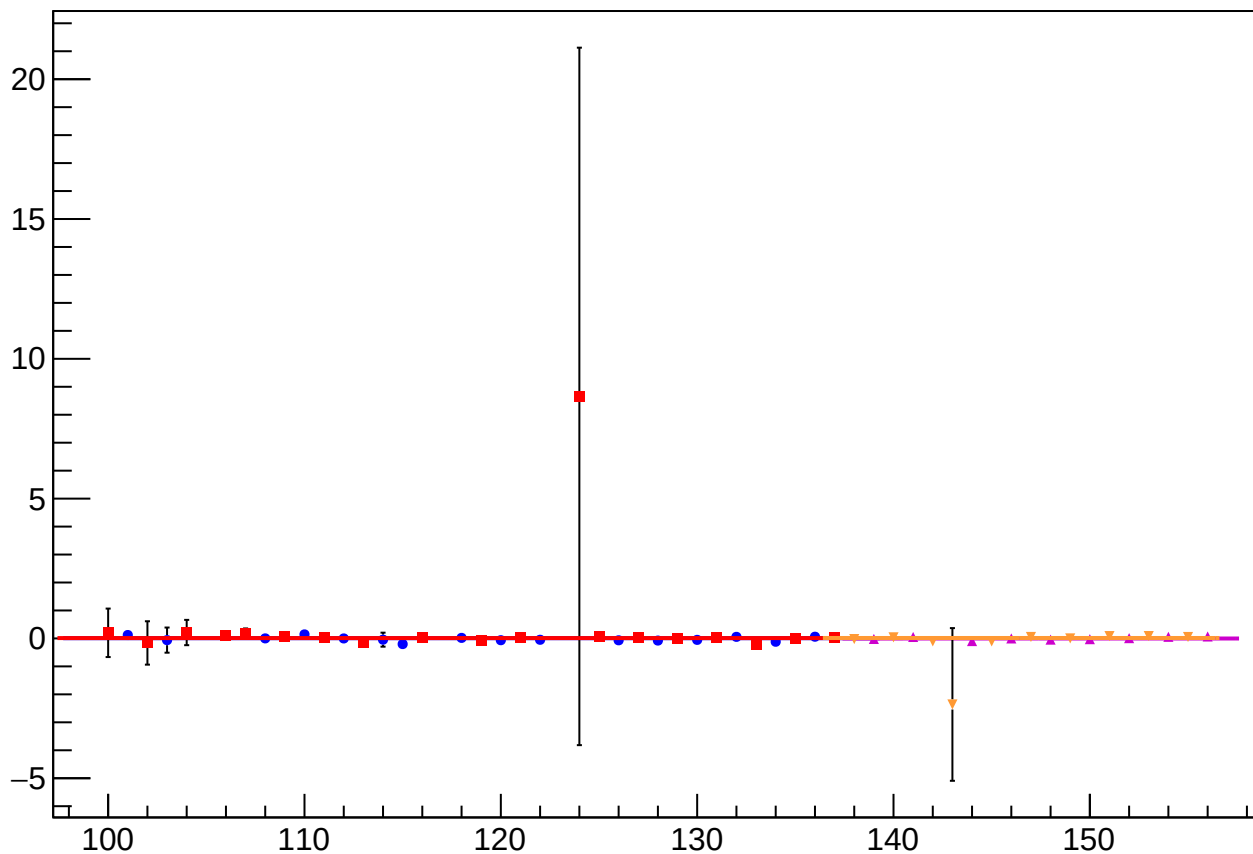
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.893 $\pm$ 0.007 χ^2 /NDF: 3081964.1/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876536.2/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8959030.0/53

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

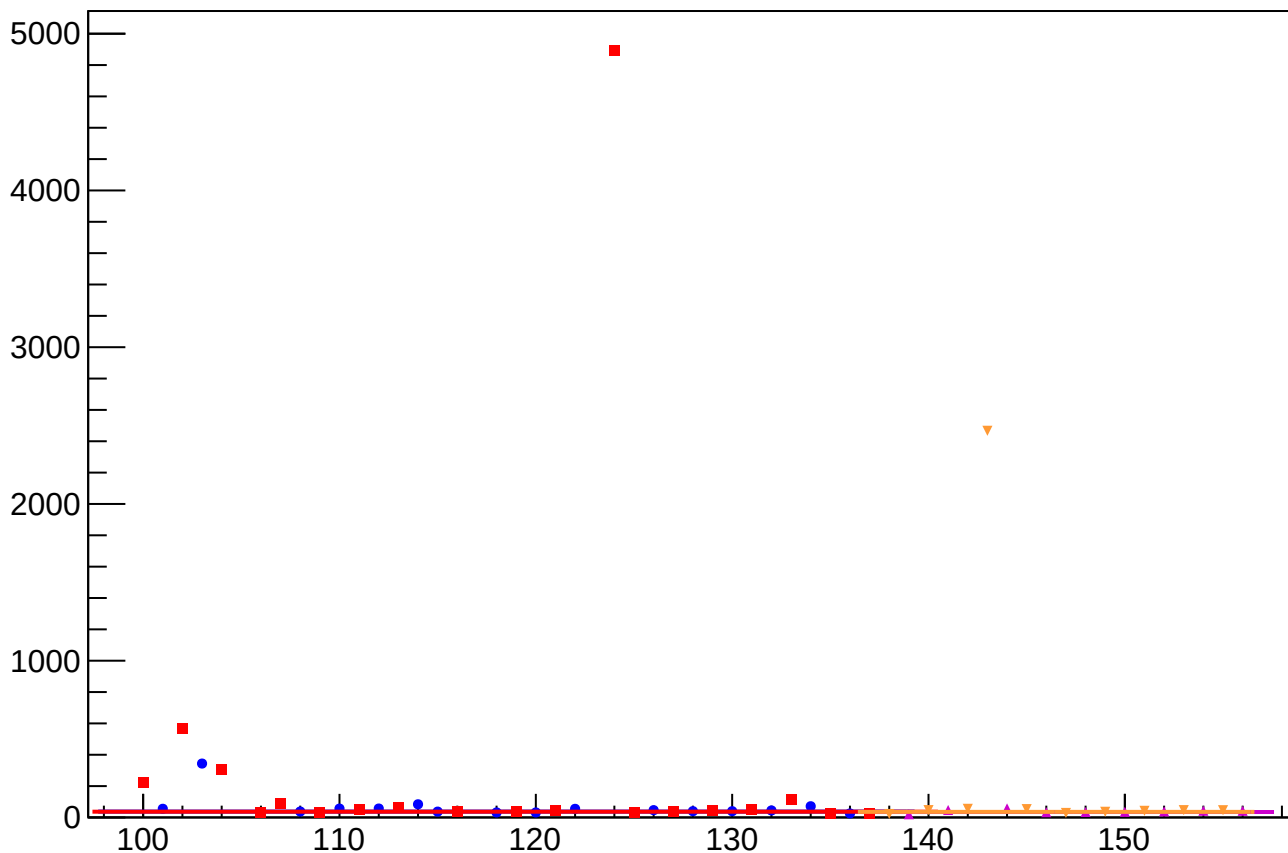
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

asym_at1_dd_at2_dd_avg_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: 35.641 $\pm$ 0.010 χ^2 /NDF: 2680727.1/9

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.713 $\pm$ 0.010 χ^2 /NDF: 1064226.5/8

Left: 35.144 $\pm$ 0.007 χ^2 /NDF: 3749154.3/18

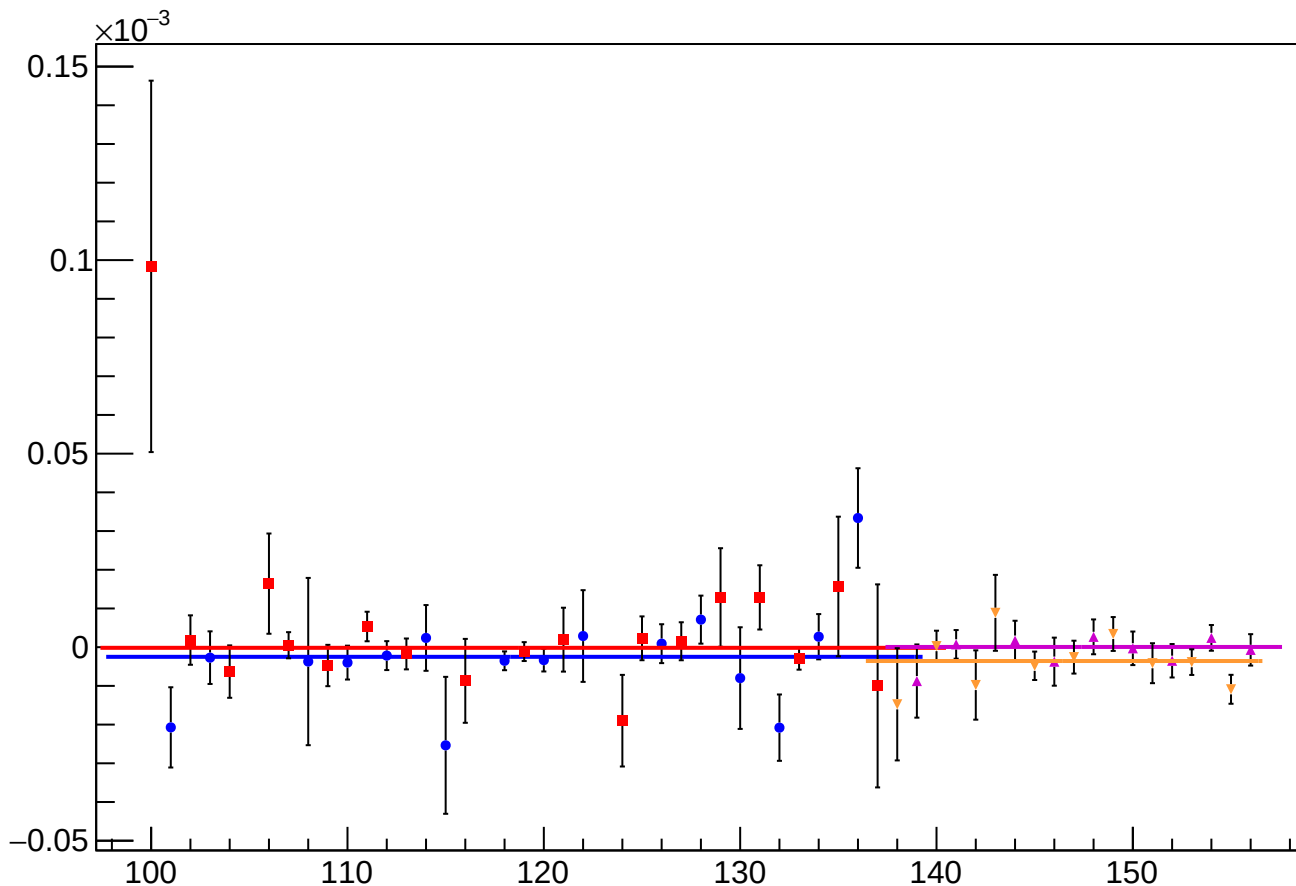
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.893 $\pm$ 0.007 χ^2 /NDF: 3081964.1/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876536.2/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8959030.0/53

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 : 10.2/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 18.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 2.9/8

Left: -0.000 ± 0.000 χ^2/NDF : 16.2/18

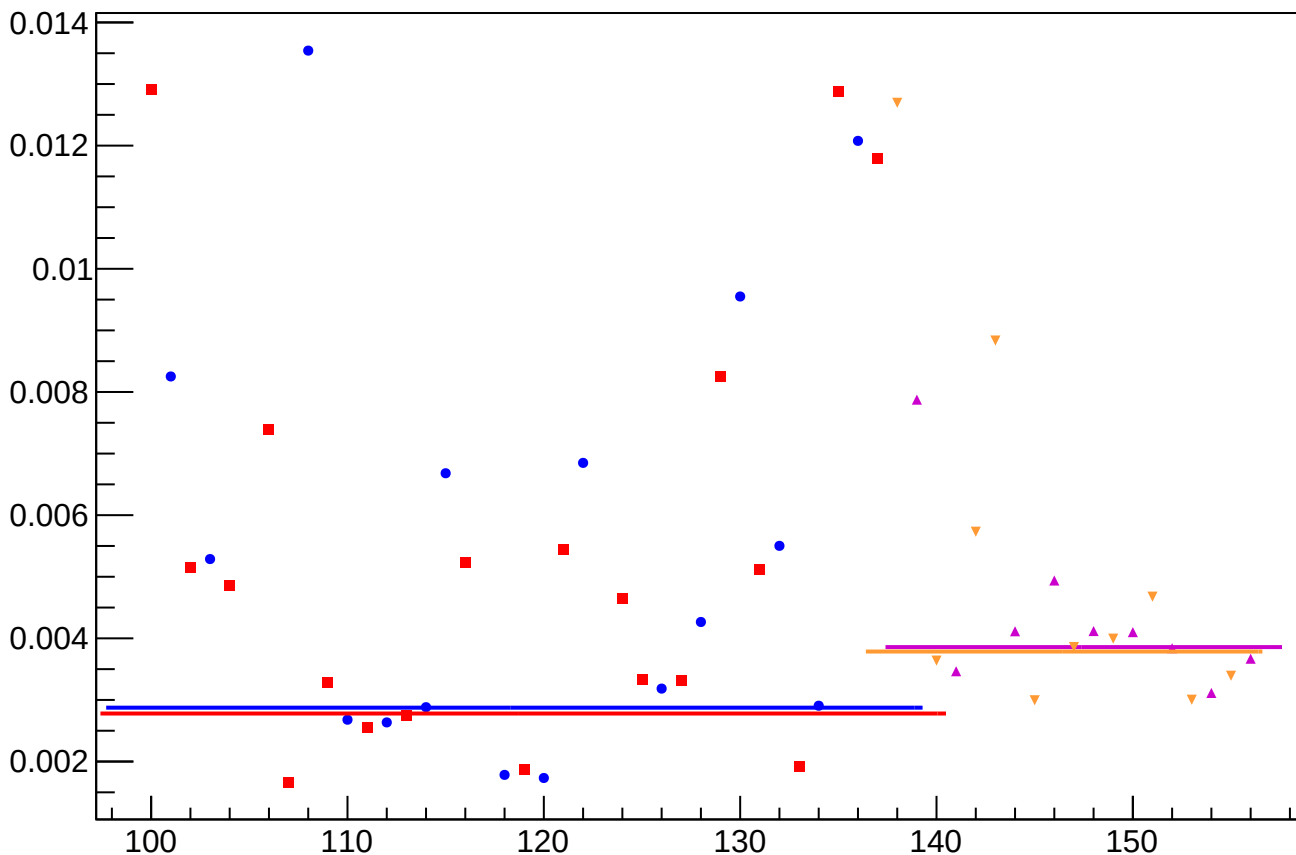
Right: -0.000 ± 0.000 χ^2/NDF : 42.5/34

In: -0.000 ± 0.000 χ^2/NDF : 26.5/24

Out: -0.000 ± 0.000 χ^2/NDF : 32.4/28

All: -0.000 ± 0.000 χ^2/NDF : 58.8/53

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 :1674830.2/9

Right Out: 0.003+/-0.000 χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000 χ^2/NDF :566939.8/8

Left: 0.004+/-0.000 χ^2/NDF : 2244183.8/18

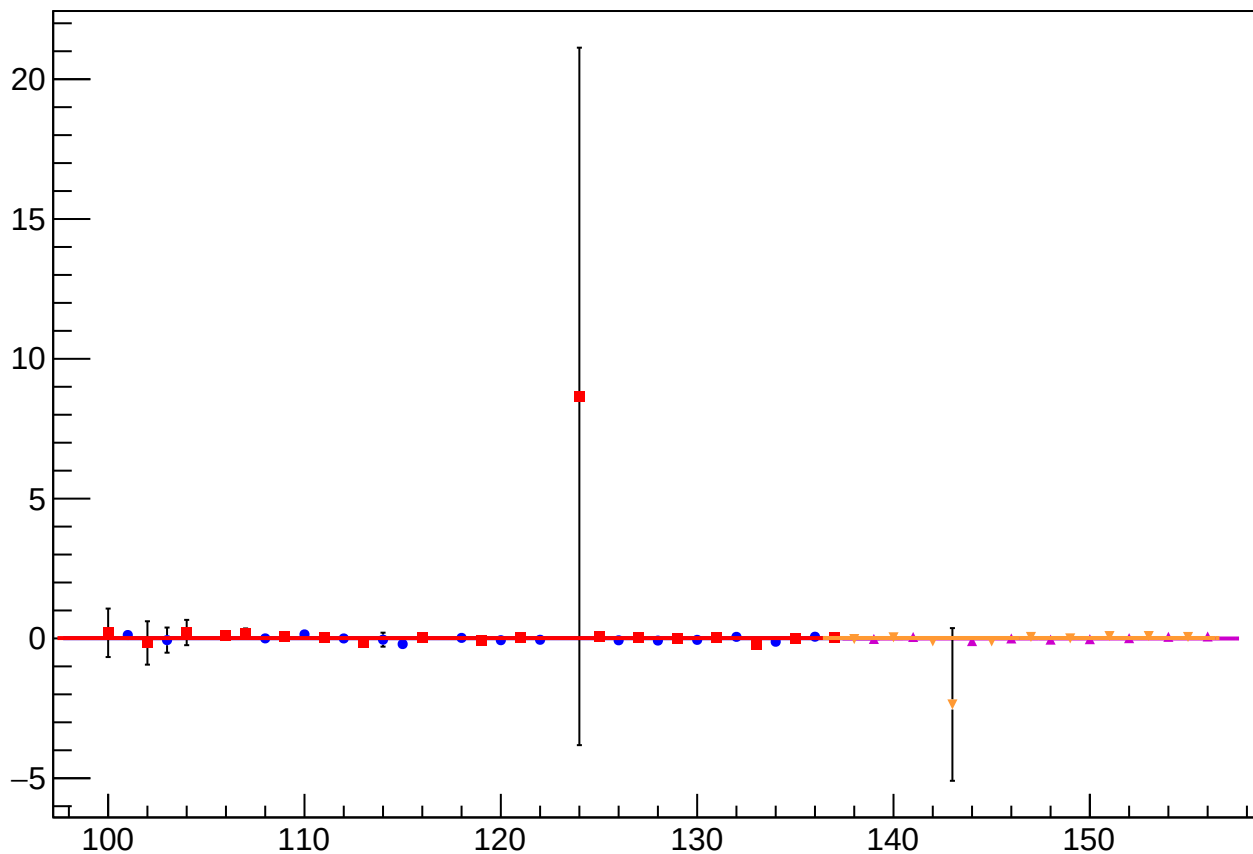
Right: 0.003+/-0.000 χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000 χ^2/NDF :5215405.0/24

Out: 0.003+/-0.000 χ^2/NDF :5566555.8/28

All: 0.003+/-0.000 χ^2/NDF : 10800177.5/53

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

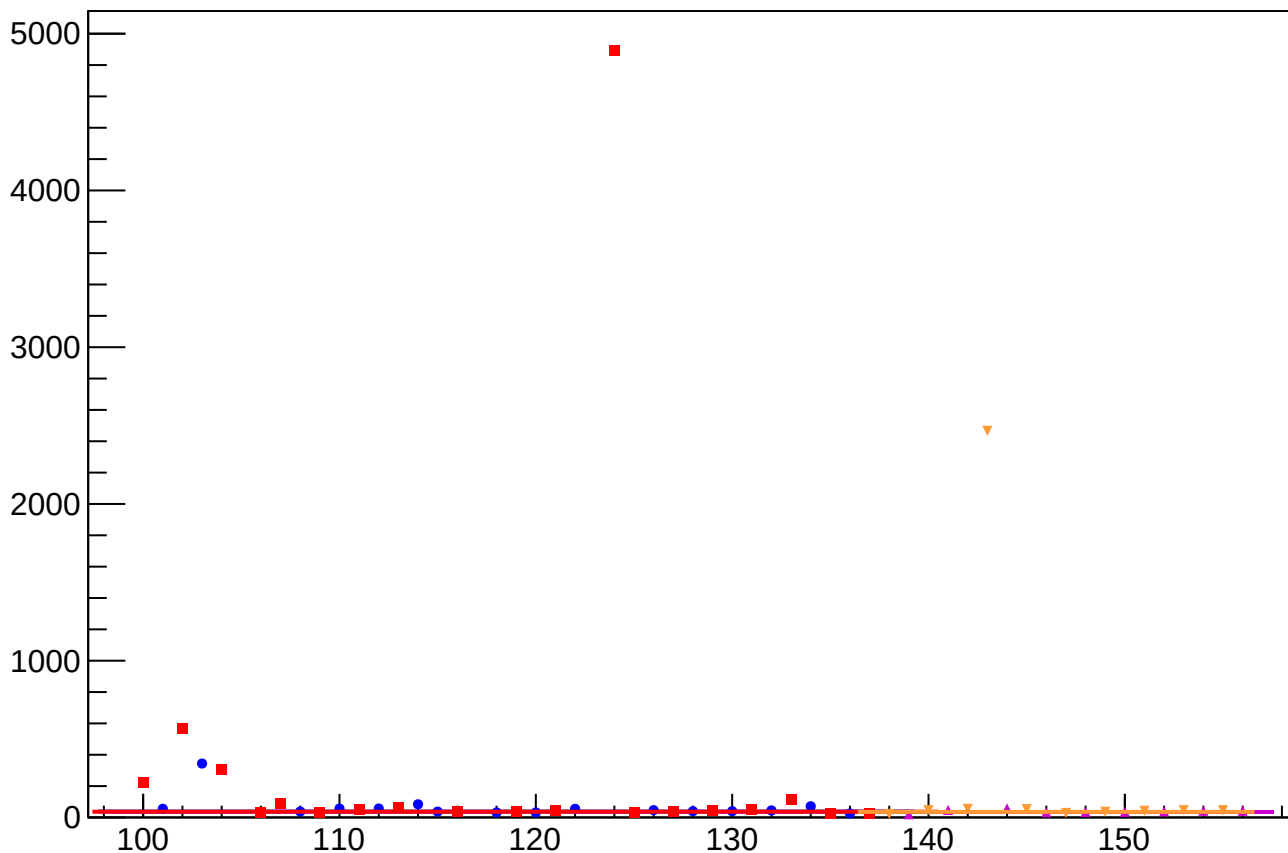
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 35.639+/-0.010 χ^2/NDF : 2681192.6/9

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 34.717+/-0.010 χ^2/NDF : 1063285.1/8

Left: 35.145+/-0.007 χ^2/NDF : 3748621.8/18

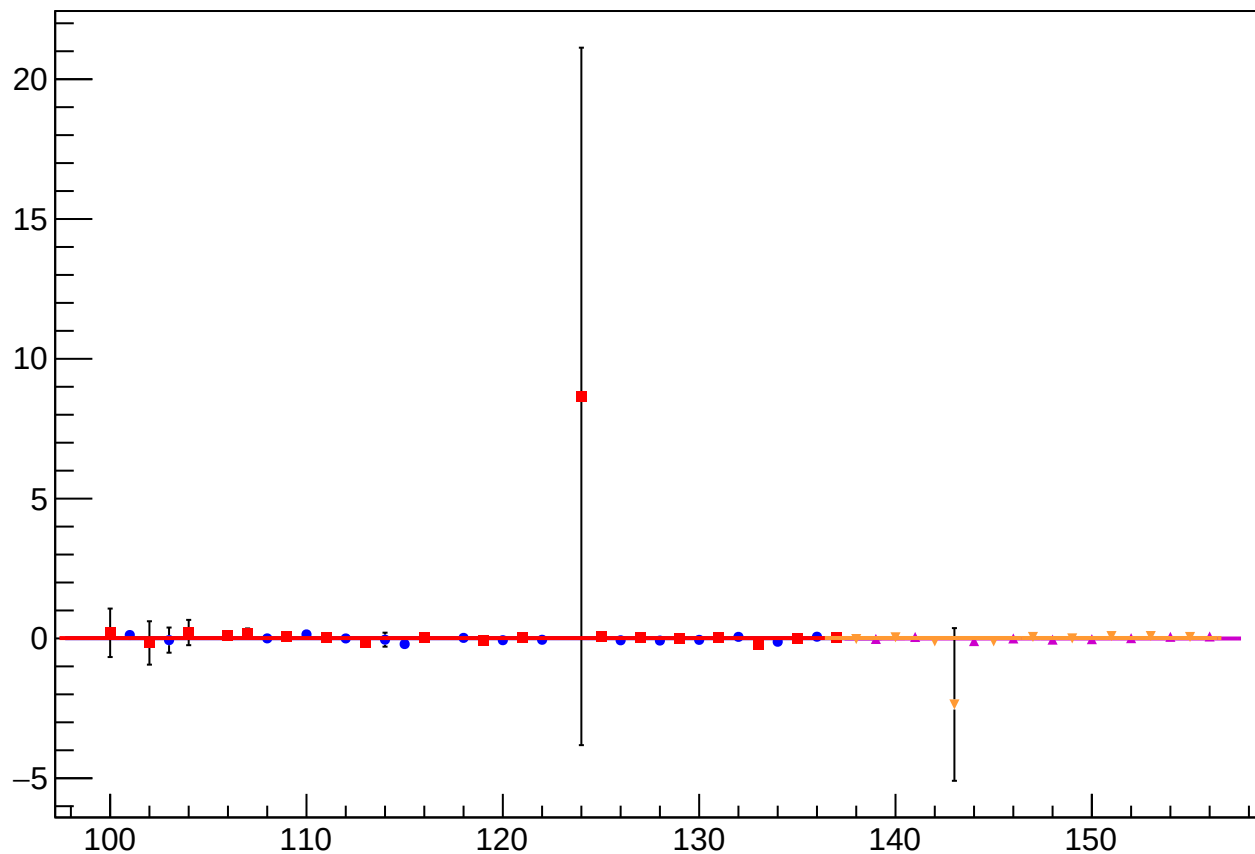
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 35.895+/-0.007 χ^2/NDF : 3080877.9/24

Out: 36.140+/-0.008 χ^2/NDF : 5876742.7/28

All: 36.010+/-0.005 χ^2/NDF : 8958136.9/53

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:14.3/9

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.003 $\pm$ 0.014 χ^2 /NDF:8.6/8

Left: 0.006 $\pm$ 0.010 χ^2 /NDF: 23.7/18

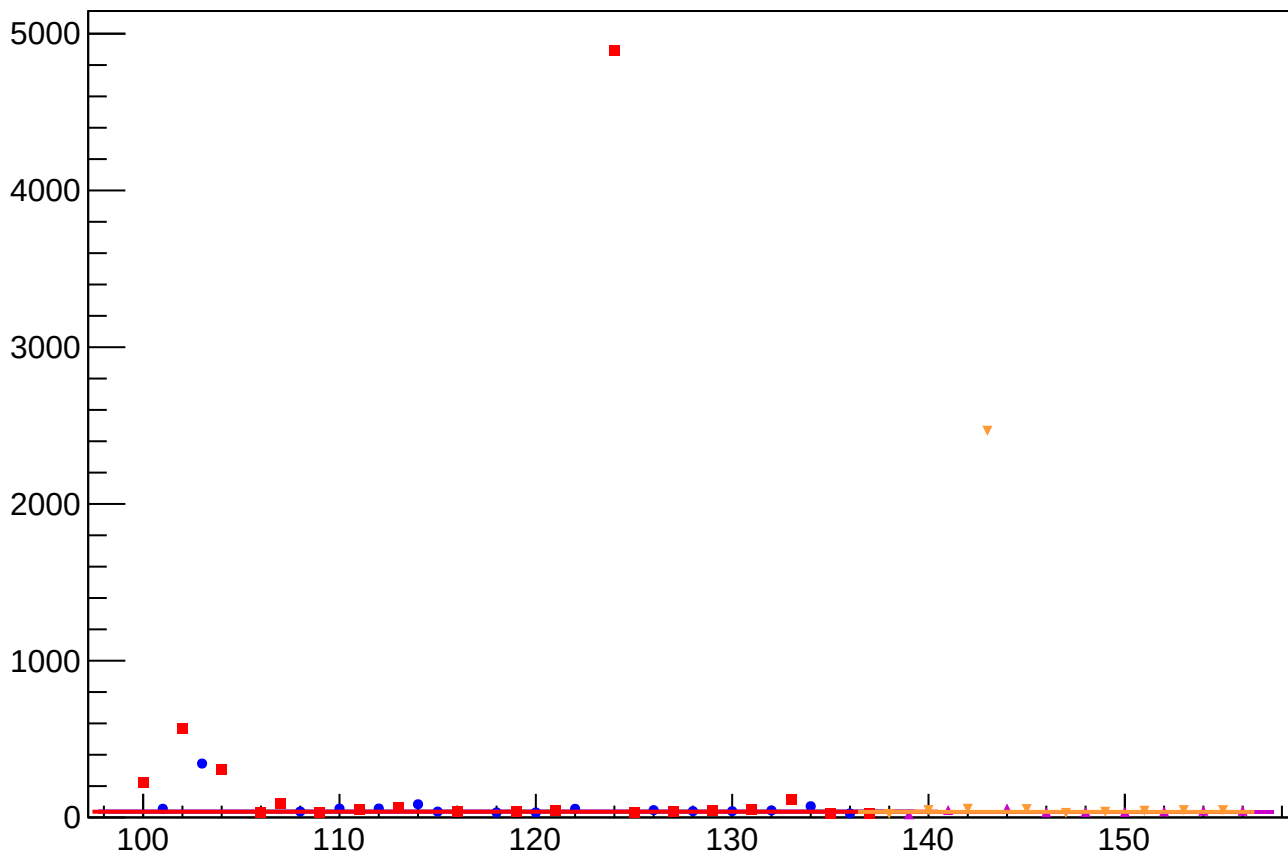
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: 0.002 $\pm$ 0.010 χ^2 /NDF:28.2/24

Out: 0.014 $\pm$ 0.011 χ^2 /NDF:26.9/28

All: 0.008 $\pm$ 0.008 χ^2 /NDF: 55.7/53

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495 $\pm$ 0.011 χ^2 /NDF: 1983206.3/15

Left Out: 35.639 $\pm$ 0.010 χ^2 /NDF: 2681192.6/9

Right Out: 36.769 $\pm$ 0.012 χ^2 /NDF: 3190400.7/18

Left In: 34.717 $\pm$ 0.010 χ^2 /NDF: 1063285.1/8

Left: 35.145 $\pm$ 0.007 χ^2 /NDF: 3748621.8/18

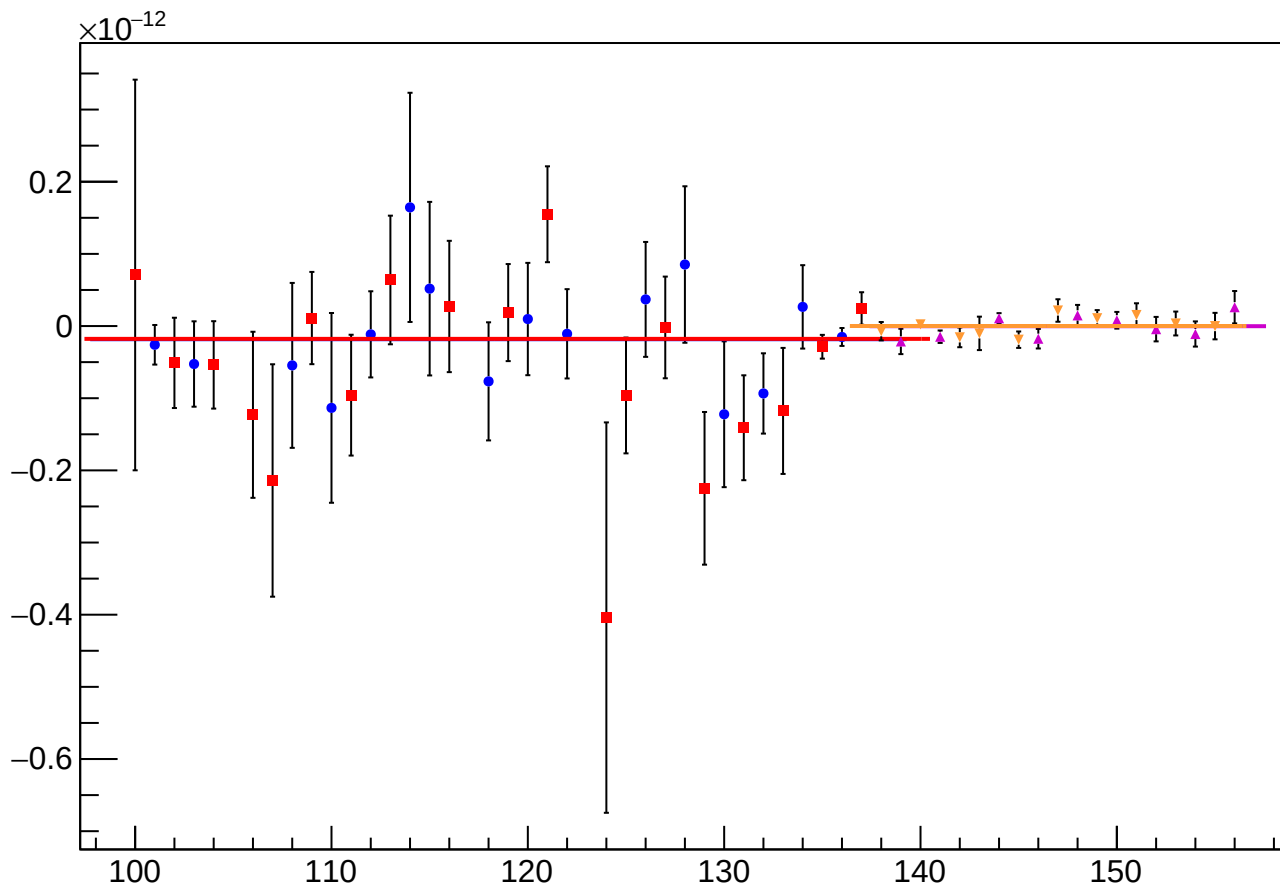
Right: 37.144 $\pm$ 0.008 χ^2 /NDF: 5175578.4/34

In: 35.895 $\pm$ 0.007 χ^2 /NDF: 3080877.9/24

Out: 36.140 $\pm$ 0.008 χ^2 /NDF: 5876742.7/28

All: 36.010 $\pm$ 0.005 χ^2 /NDF: 8958136.9/53

asym_at1_dd_at2_dd_avg_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 : 8.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 27.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.8/8

Left: -0.000+/-0.000 χ^2/NDF : 20.3/18

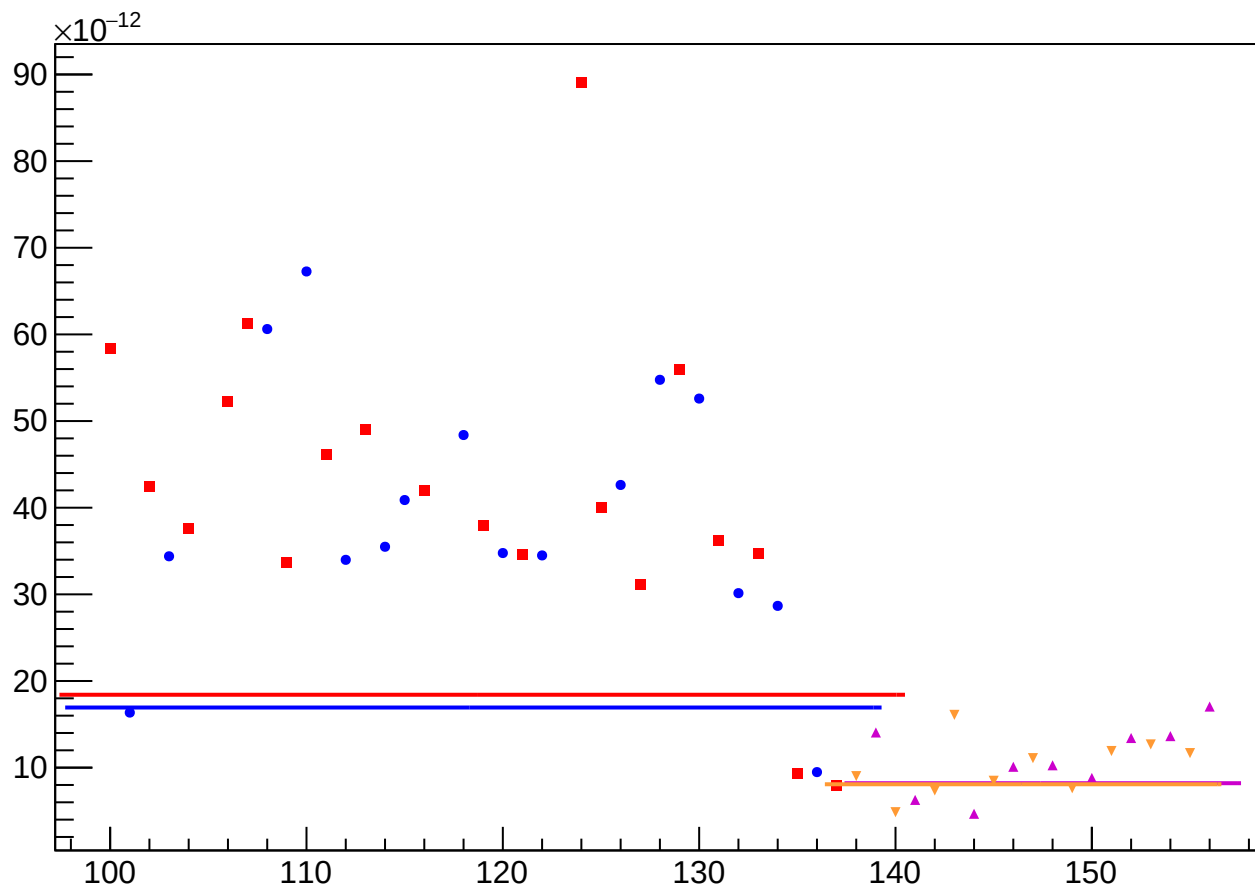
Right: -0.000+/-0.000 χ^2/NDF : 35.6/34

In: -0.000+/-0.000 χ^2/NDF : 23.0/24

Out: -0.000+/-0.000 χ^2/NDF : 38.0/28

All: -0.000+/-0.000 χ^2/NDF : 61.0/53

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 $\chi^2/\text{NDF}: 1135106.9/9$

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1605295.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2741357.9/18

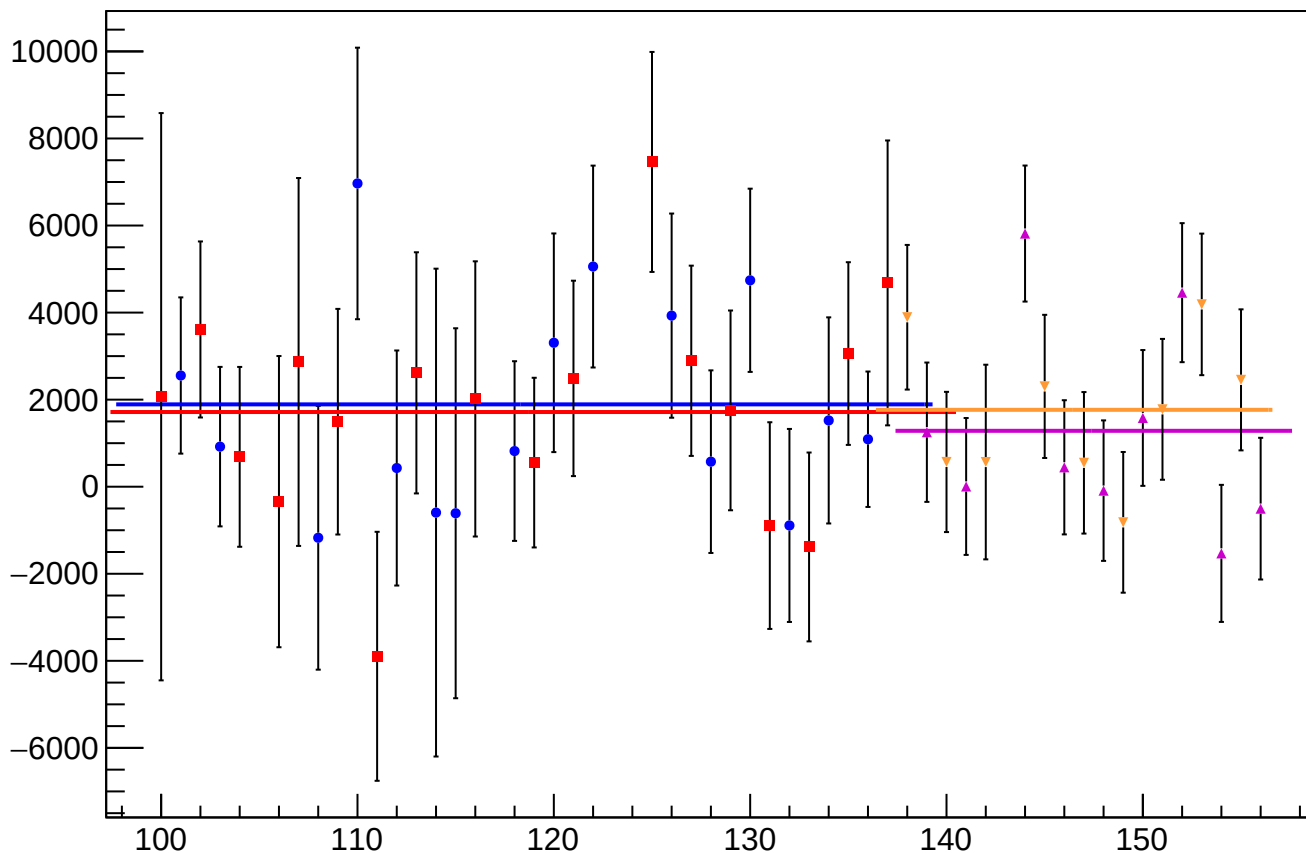
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

ln: 0.000+/-0.000 χ^2 /NDF:6150532.3/24

Out: 0.000+/-0.000 $\chi^2/\text{NDF}: 6362255.7/28$

All: 0.000+/-0.000 χ^2/NDF : 12515219.1/53

reg_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.457 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1766.319 $\pm$ 557.263 χ^2 /NDF:8.1/8

Right Out: 1715.909 $\pm$ 589.518 χ^2 /NDF: 16.0/17

Left In: 1284.183 $\pm$ 527.541 χ^2 /NDF:18.5/8

Left: 1512.051 $\pm$ 383.105 χ^2 /NDF: 27.0/17

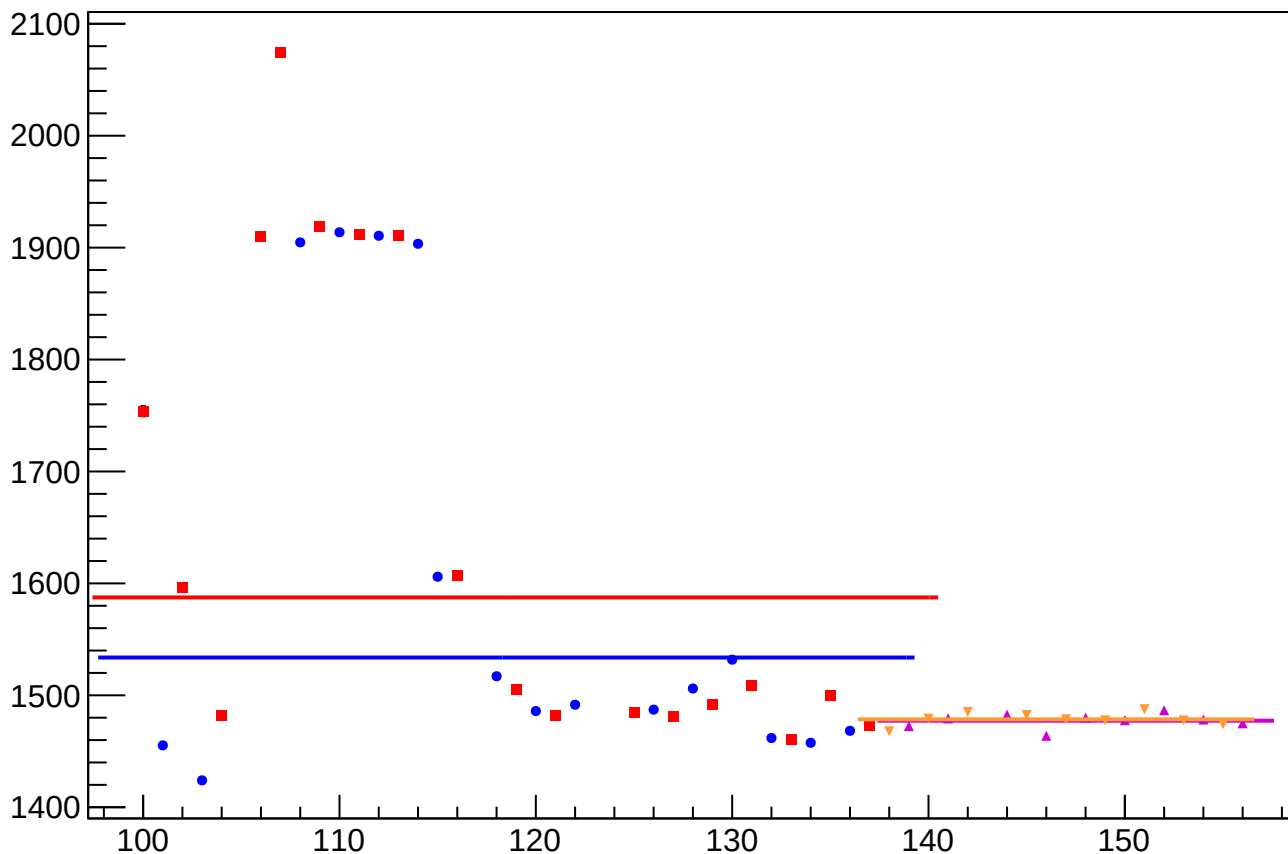
Right: 1806.293 $\pm$ 410.609 χ^2 /NDF: 28.2/33

In: 1563.177 $\pm$ 387.870 χ^2 /NDF:31.3/24

Out: 1742.531 $\pm$ 404.968 χ^2 /NDF:24.1/26

All: 1648.988 $\pm$ 280.115 χ^2 /NDF: 55.5/51

reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771+/-0.405 χ^2/NDF : 129271.6/15

Left Out: 1478.555+/-0.394 χ^2/NDF :189.5/8

Right Out: 1587.461+/-0.417 χ^2/NDF : 171988.2/17

Left In: 1477.339+/-0.373 χ^2/NDF :277.2/8

Left: 1477.913+/-0.271 χ^2/NDF : 471.7/17

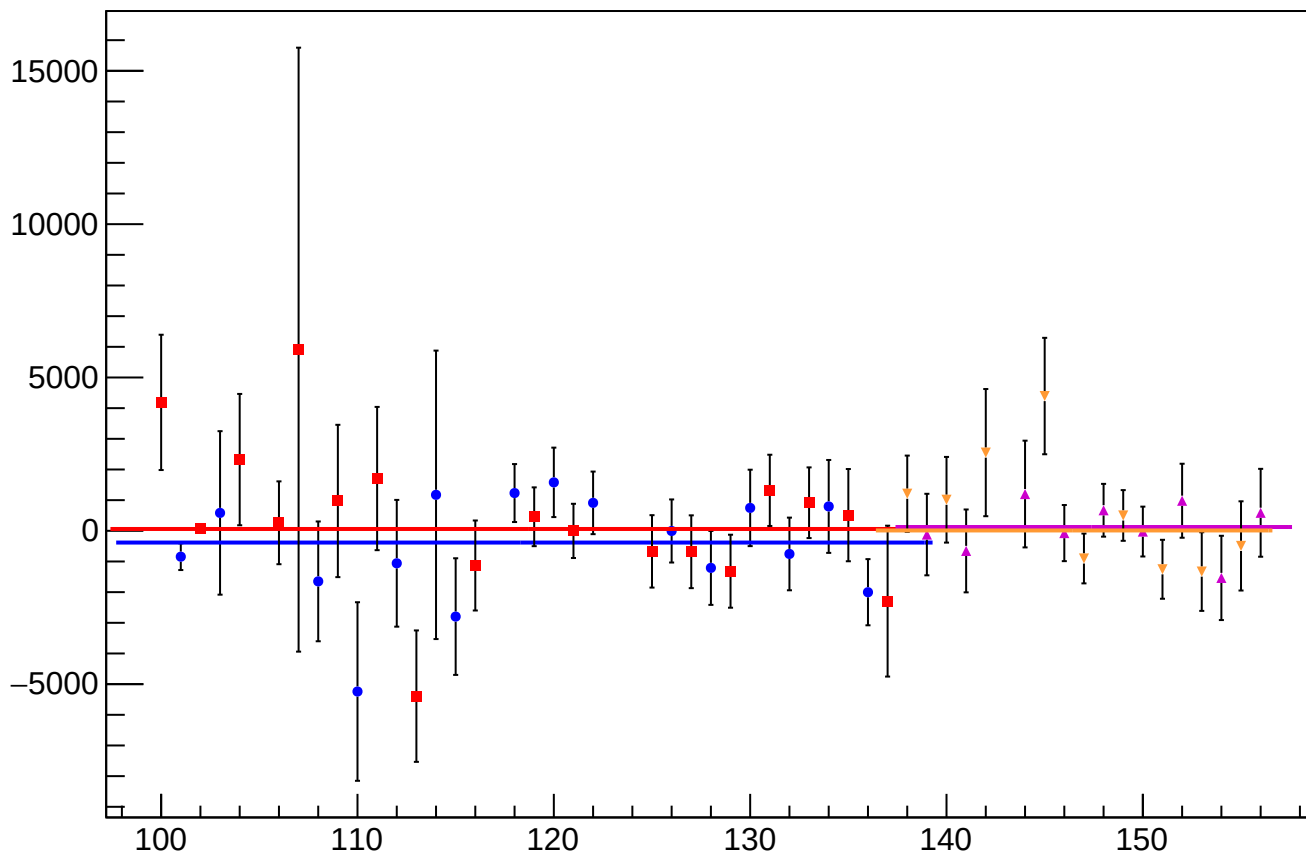
Right: 1559.818+/-0.290 χ^2/NDF : 309801.2/33

In: 1503.265+/-0.274 χ^2/NDF :140063.1/24

Out: 1529.947+/-0.286 χ^2/NDF :208224.3/26

All: 1516.031+/-0.198 χ^2/NDF : 352815.8/51

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: 11.902 ± 383.150 χ^2/NDF : 12.8/8

Right Out: 59.970 ± 127.700 χ^2/NDF : 17.8/17

Left In: 124.157 ± 372.567 χ^2/NDF : 3.3/8

Left: 69.601 ± 267.108 χ^2/NDF : 16.2/17

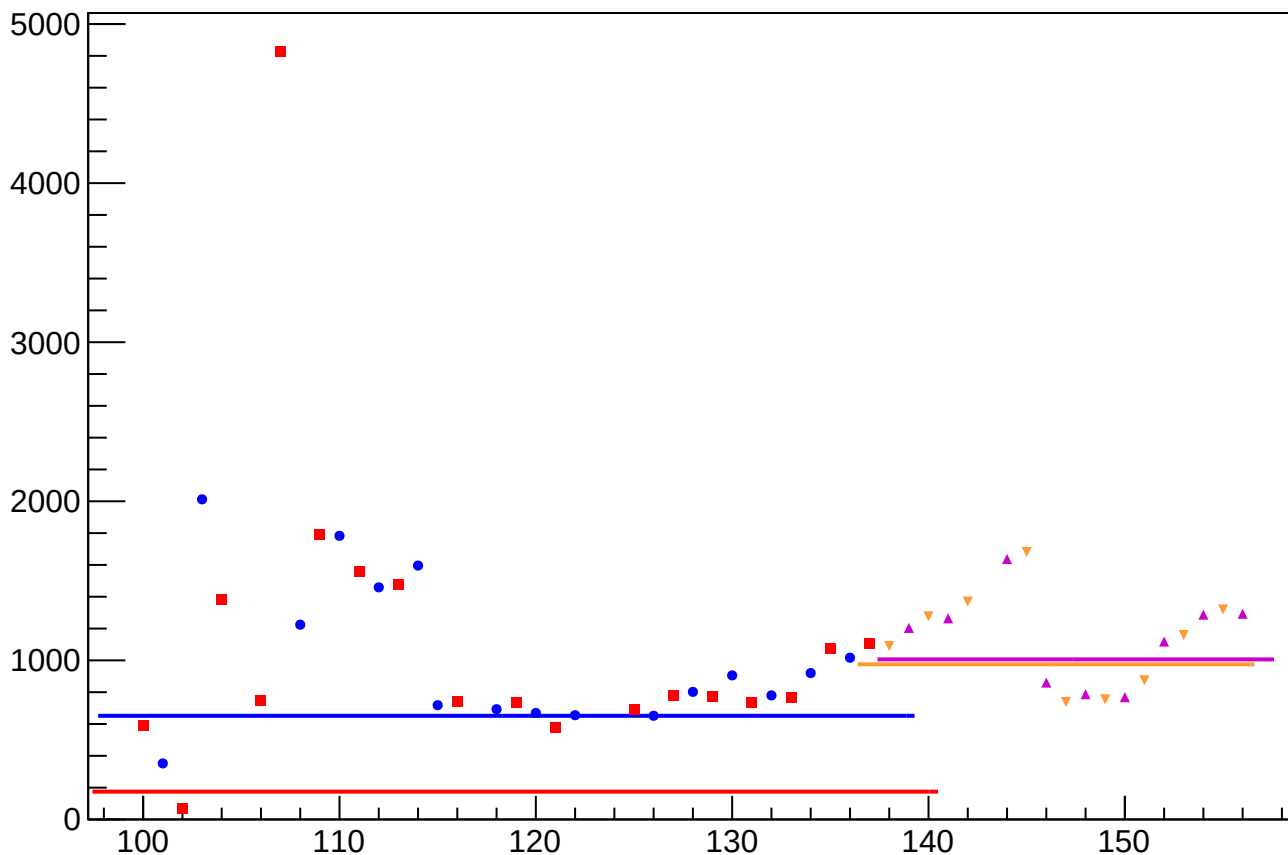
Right: -19.895 ± 115.611 χ^2/NDF : 38.1/33

In: -206.354 ± 219.794 χ^2/NDF : 22.7/24

Out: 55.165 ± 121.149 χ^2/NDF : 30.6/26

All: -5.774 ± 106.099 χ^2/NDF : 54.4/51

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: 975.148+/-0.271 χ^2/NDF : 947454.3/8

Right Out: 174.898+/-0.090 χ^2/NDF : 9761228.2/17

Left In: 1006.091+/-0.263 χ^2/NDF : 912245.1/8

Left: 991.053+/-0.189 χ^2/NDF : 1866403.9/17

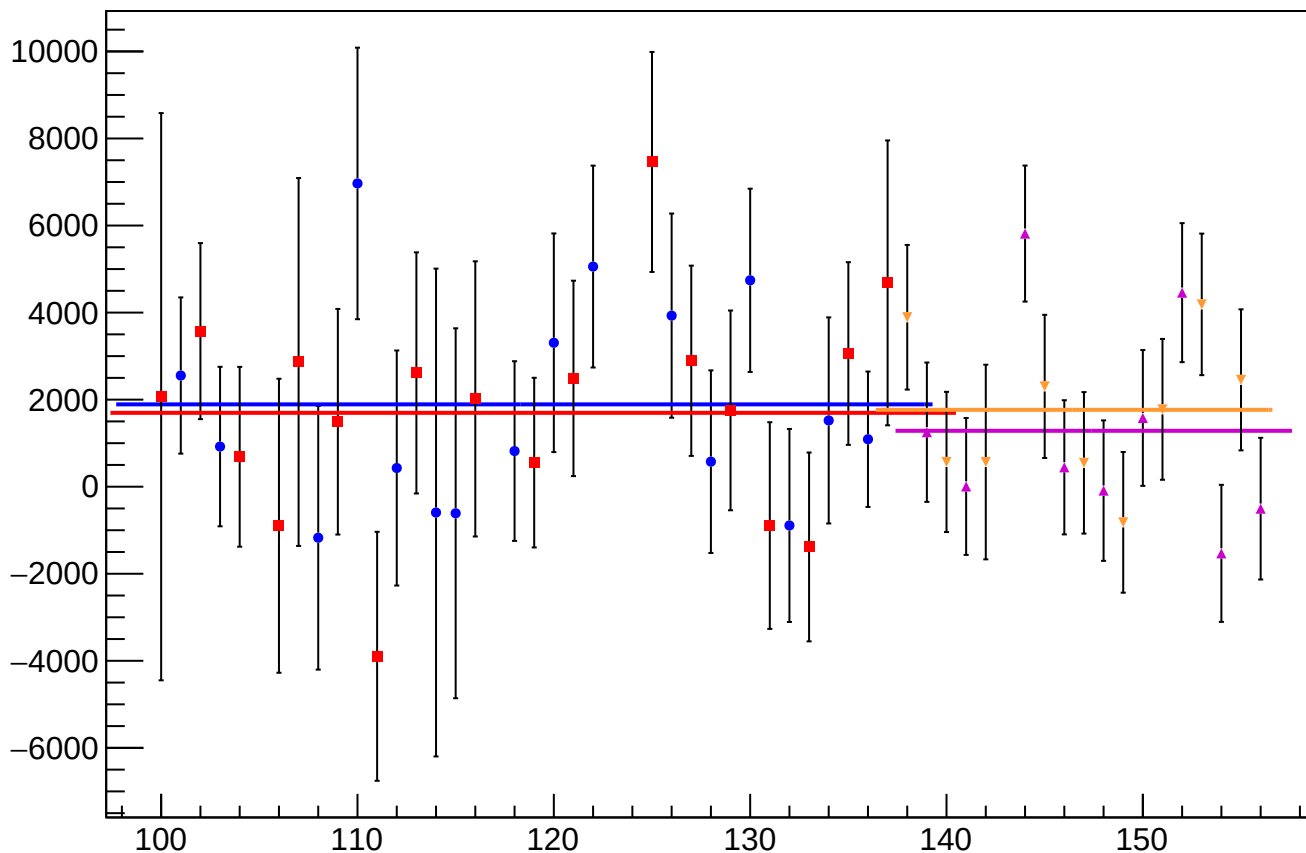
Right: 260.873+/-0.082 χ^2/NDF : 17549506.9/33

In: 774.925+/-0.155 χ^2/NDF : 4855888.8/24

Out: 254.905+/-0.086 χ^2/NDF : 18561000.5/26

All: 376.080+/-0.075 χ^2/NDF : 32003524.4/53

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: 1766.231 $\pm$ 557.263 χ^2 /NDF:8.1/8

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 1284.333 $\pm$ 527.541 χ^2 /NDF:18.5/8

Left: 1512.088 $\pm$ 383.105 χ^2 /NDF: 27.0/17

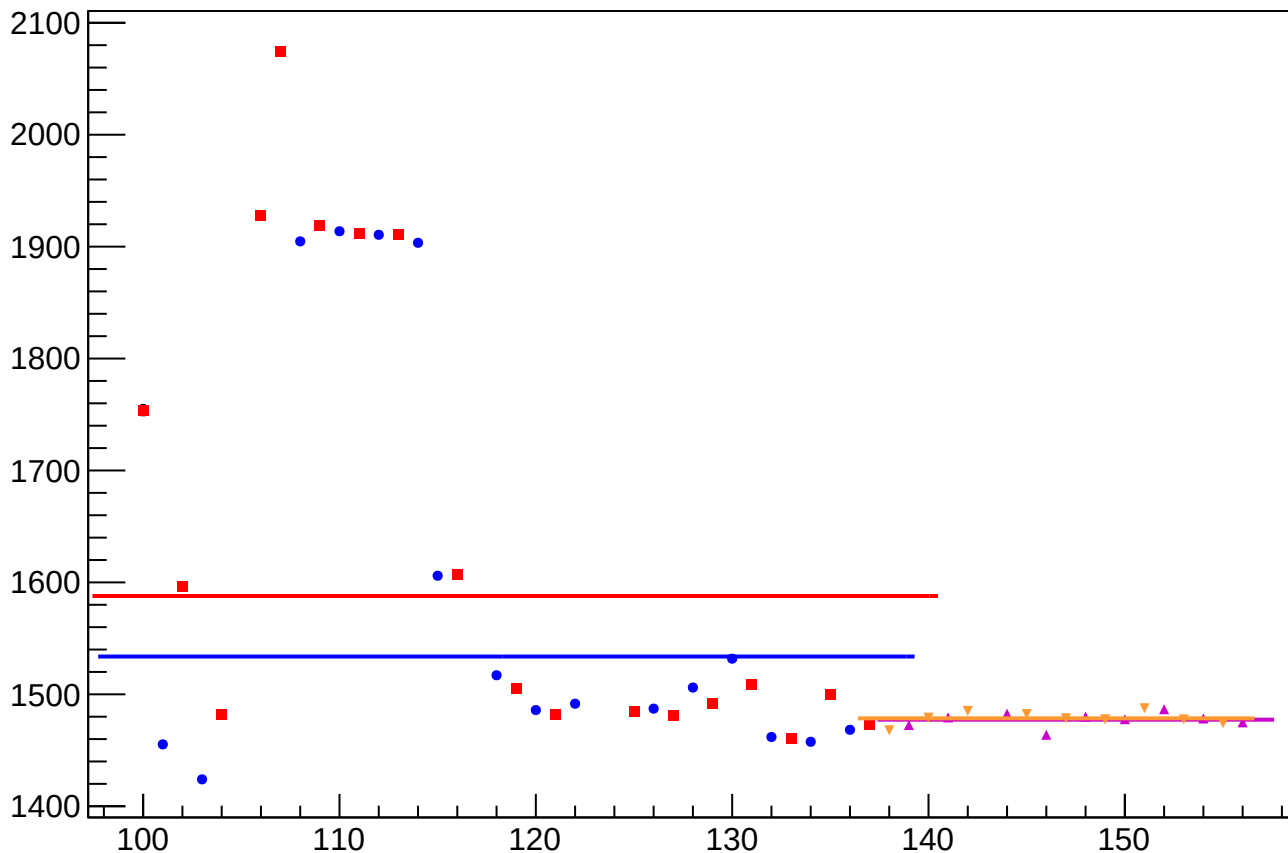
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1563.306 $\pm$ 387.870 χ^2 /NDF:31.3/24

Out: 1733.566 $\pm$ 405.026 χ^2 /NDF:24.3/26

All: 1644.753 $\pm$ 280.134 χ^2 /NDF: 55.7/51

cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771 $\pm$ 0.405 χ^2 /NDF: 129271.5/15

Left Out: 1478.555 $\pm$ 0.394 χ^2 /NDF:189.5/8

Right Out: 1587.846 $\pm$ 0.417 χ^2 /NDF: 173766.9/17

Left In: 1477.339 $\pm$ 0.373 χ^2 /NDF:277.2/8

Left: 1477.913 $\pm$ 0.271 χ^2 /NDF: 471.7/17

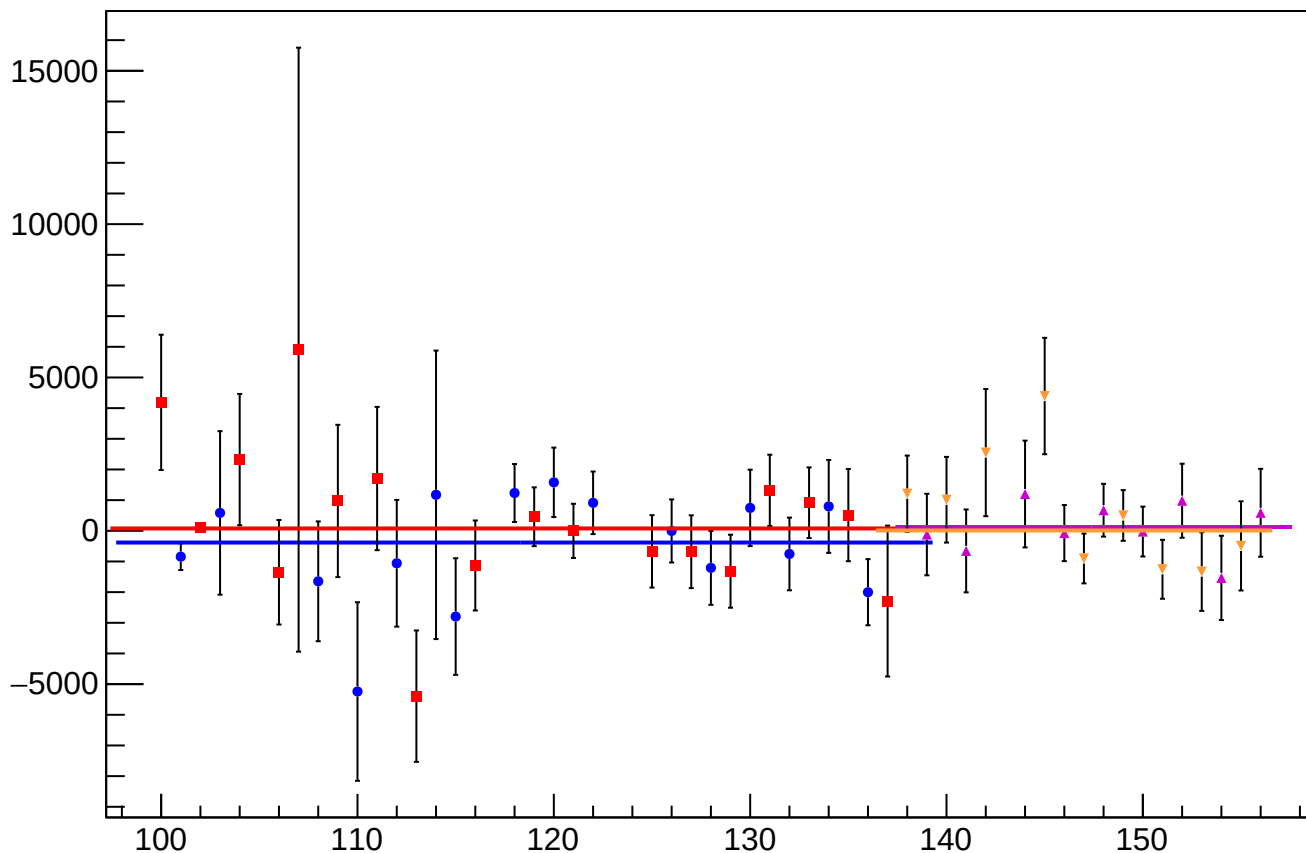
Right: 1559.996 $\pm$ 0.290 χ^2 /NDF: 311699.9/33

In: 1503.265 $\pm$ 0.274 χ^2 /NDF:140063.0/24

Out: 1530.112 $\pm$ 0.286 χ^2 /NDF:210246.4/26

All: 1516.108 $\pm$ 0.198 χ^2 /NDF: 354893.3/51

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: 11.723 ± 383.153 χ^2/NDF : 12.8/8

Right Out: 76.754 ± 138.137 χ^2/NDF : 18.5/17

Left In: 124.220 ± 372.567 χ^2/NDF : 3.3/8

Left: 69.547 ± 267.109 χ^2/NDF : 16.2/17

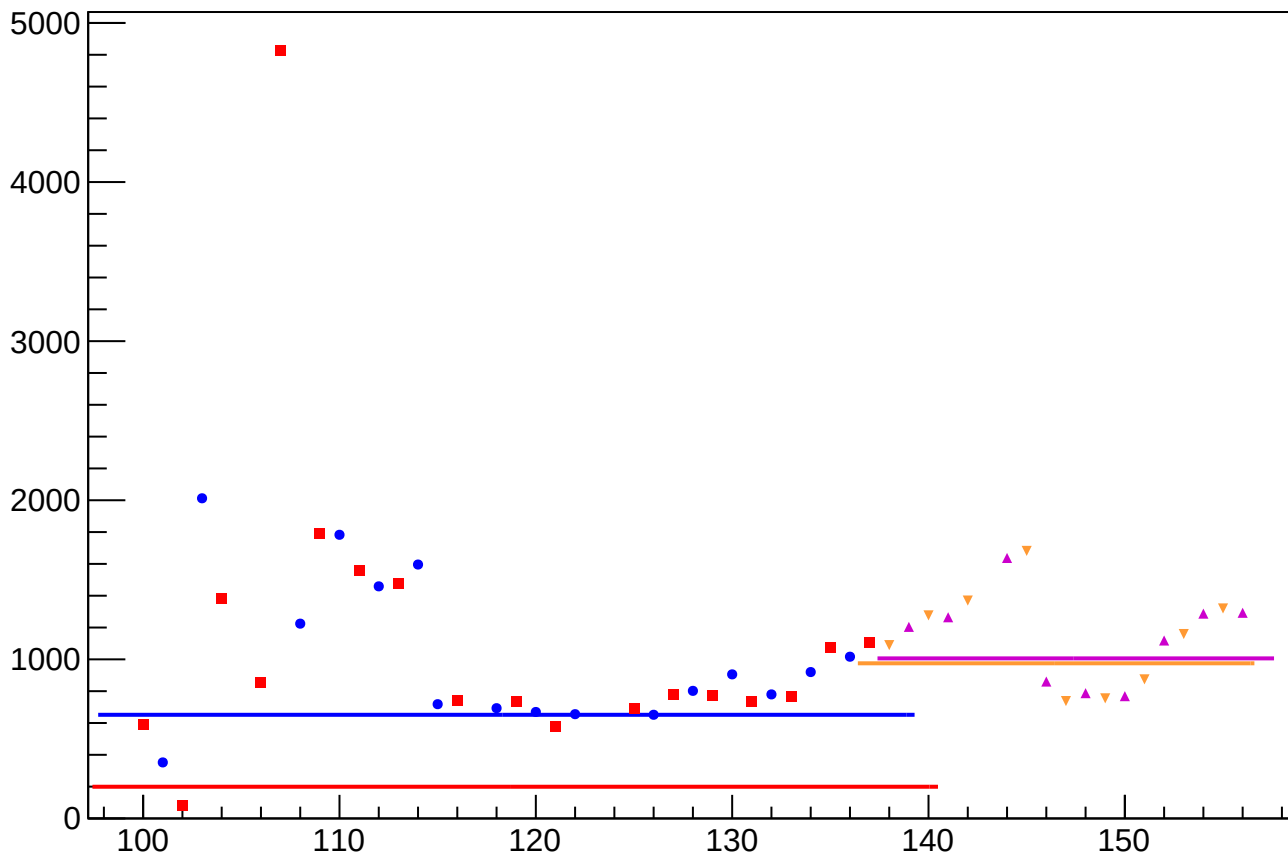
Right: -17.348 ± 123.184 χ^2/NDF : 38.9/33

In: -206.315 ± 219.794 χ^2/NDF : 22.7/24

Out: 69.274 ± 129.950 χ^2/NDF : 31.3/26

All: -2.109 ± 111.861 χ^2/NDF : 55.2/51

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: 975.157+/-0.271 χ^2/NDF : 947430.4/8

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1006.090+/-0.263 χ^2/NDF : 912294.0/8

Left: 991.057+/-0.189 χ^2/NDF : 1866424.5/17

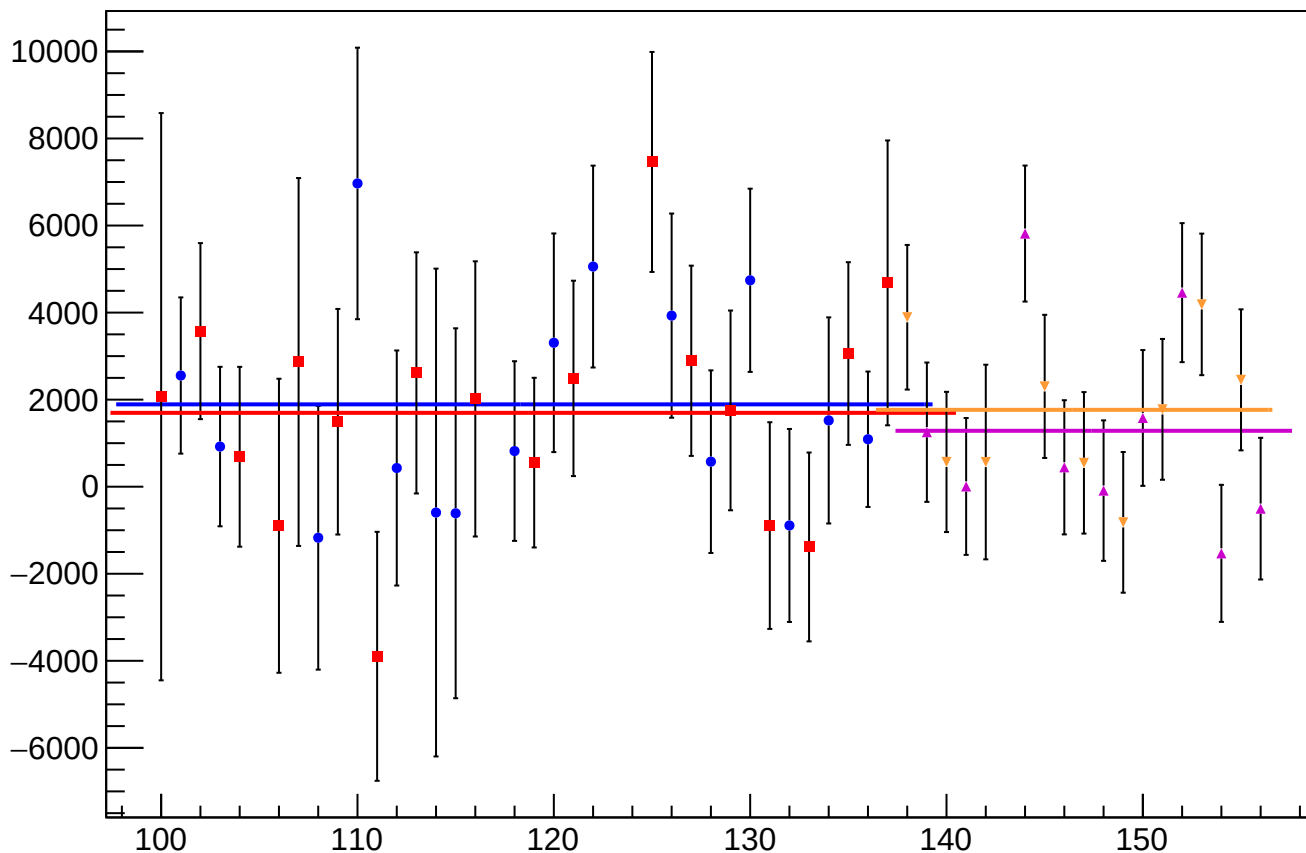
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 774.923+/-0.155 χ^2/NDF : 4855964.9/24

Out: 288.584+/-0.092 χ^2/NDF : 17488771.2/26

All: 414.554+/-0.079 χ^2/NDF : 29600533.0/53

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: 1766.231 $\pm$ 557.263 χ^2 /NDF: 8.1/8

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 1284.333 $\pm$ 527.541 χ^2 /NDF: 18.5/8

Left: 1512.088 $\pm$ 383.105 χ^2 /NDF: 27.0/17

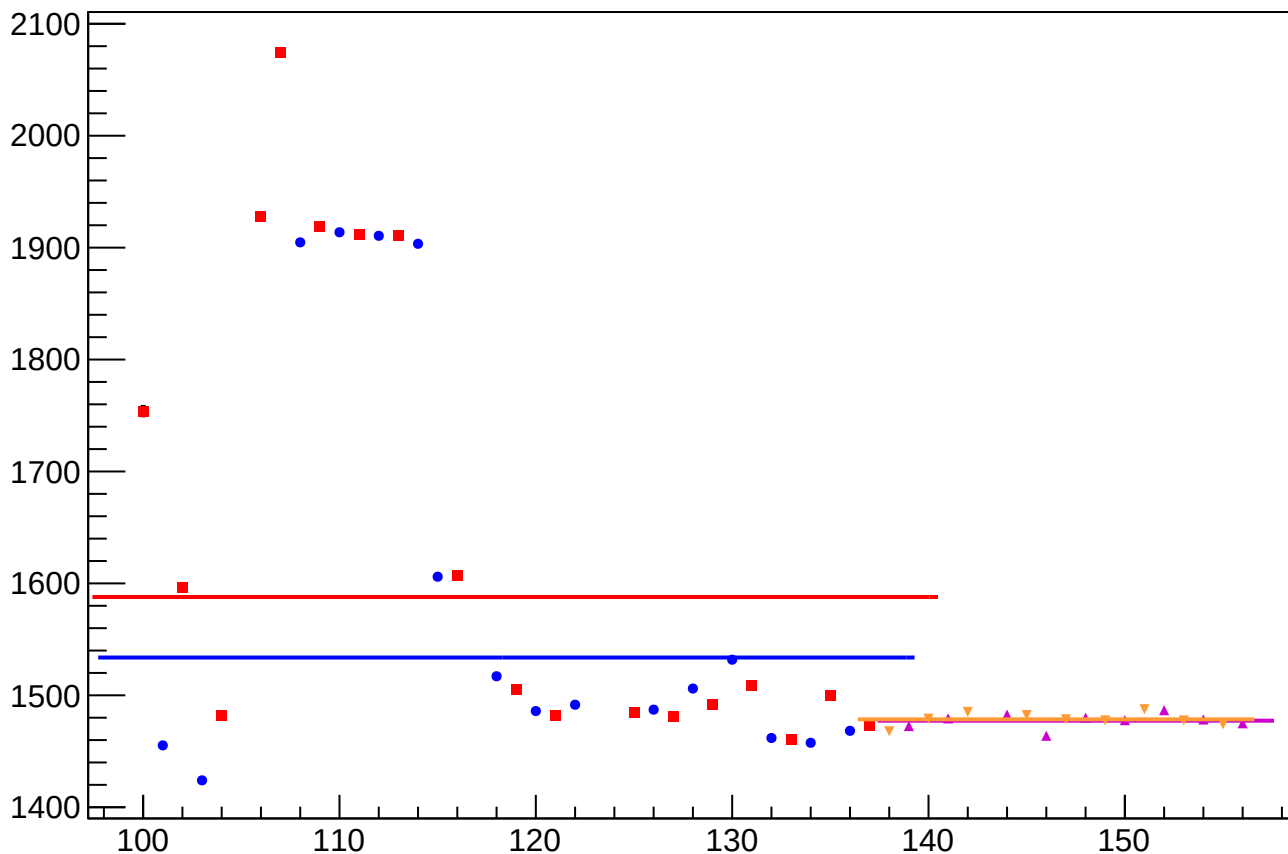
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1563.306 $\pm$ 387.870 χ^2 /NDF: 31.3/24

Out: 1733.566 $\pm$ 405.026 χ^2 /NDF: 24.3/26

All: 1644.753 $\pm$ 280.134 χ^2 /NDF: 55.7/51

eigen_cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771 $\pm$ 0.405 χ^2 /NDF: 129271.5/15

Left Out: 1478.555 $\pm$ 0.394 χ^2 /NDF:189.5/8

Right Out: 1587.846 $\pm$ 0.417 χ^2 /NDF: 173766.9/17

Left In: 1477.339 $\pm$ 0.373 χ^2 /NDF:277.2/8

Left: 1477.913 $\pm$ 0.271 χ^2 /NDF: 471.7/17

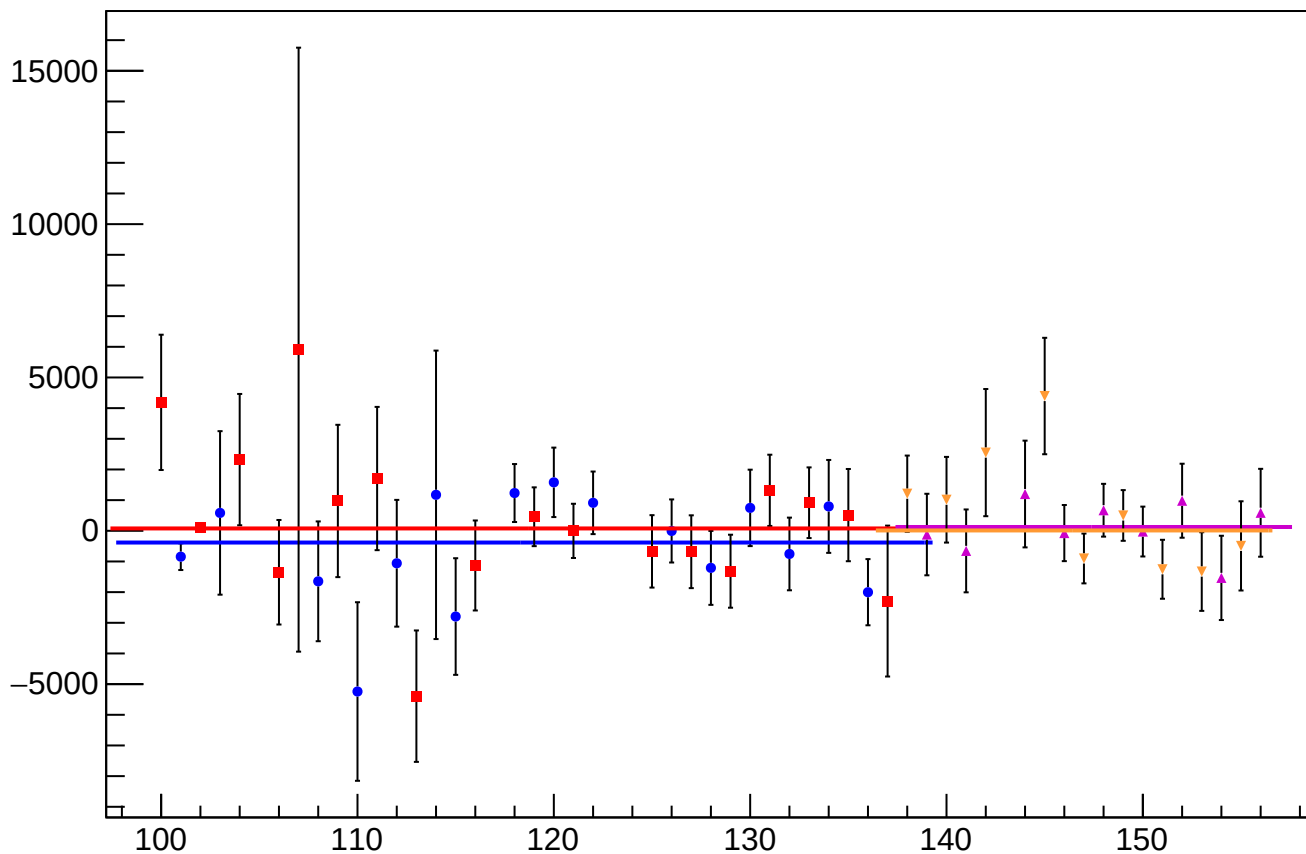
Right: 1559.996 $\pm$ 0.290 χ^2 /NDF: 311699.9/33

In: 1503.265 $\pm$ 0.274 χ^2 /NDF:140063.0/24

Out: 1530.112 $\pm$ 0.286 χ^2 /NDF:210246.4/26

All: 1516.108 $\pm$ 0.198 χ^2 /NDF: 354893.3/51

asym_usl_atl1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -382.761 $\pm$ 272.209 χ^2 /NDF: 18.2/15

Left Out: 11.723 $\pm$ 383.153 χ^2 /NDF:12.8/8

Right Out: 76.754 $\pm$ 138.137 χ^2 /NDF: 18.5/17

Left In: 124.220 $\pm$ 372.567 χ^2 /NDF:3.3/8

Left: 69.547 $\pm$ 267.109 χ^2 /NDF: 16.2/17

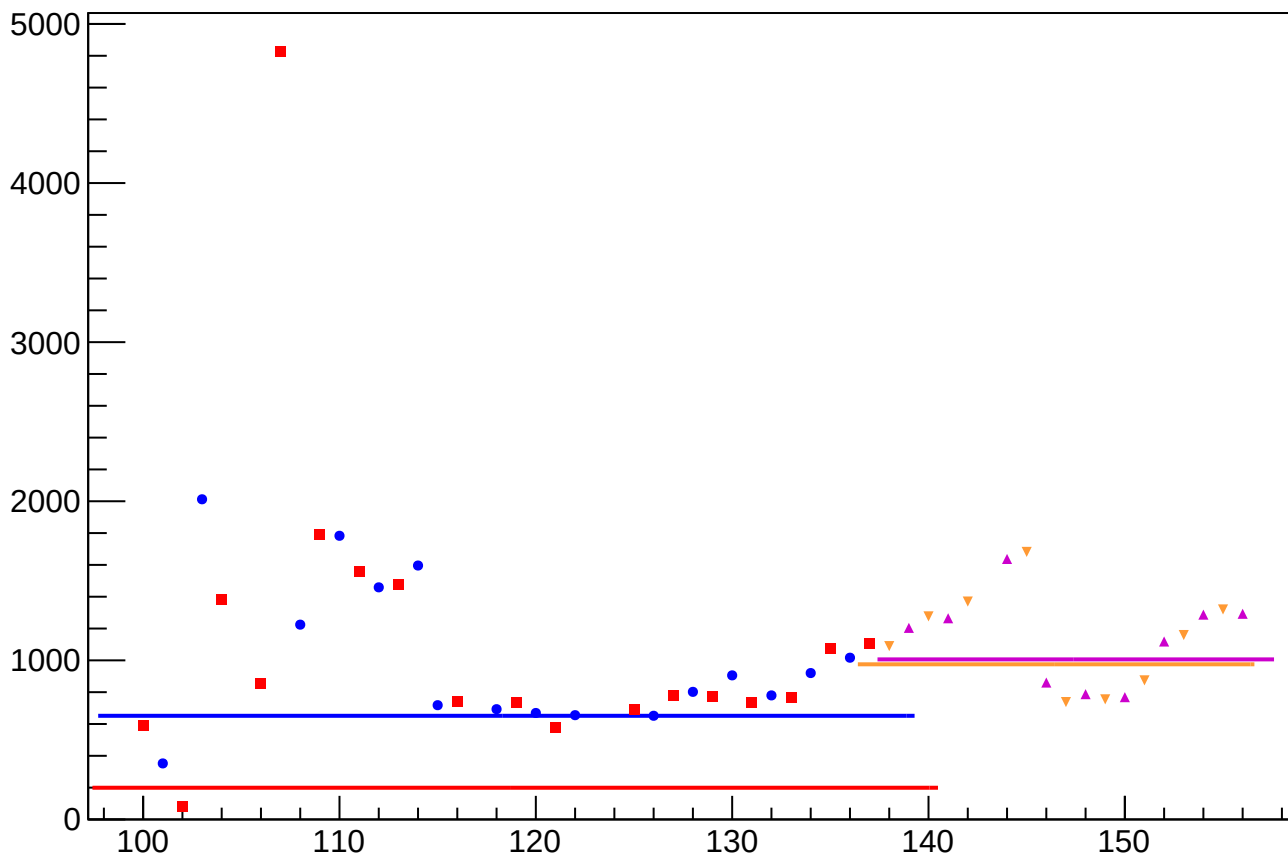
Right: -17.348 $\pm$ 123.184 χ^2 /NDF: 38.9/33

In: -206.315 $\pm$ 219.794 χ^2 /NDF:22.7/24

Out: 69.274 $\pm$ 129.950 χ^2 /NDF:31.3/26

All: -2.109 $\pm$ 111.861 χ^2 /NDF: 55.2/51

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: 975.157+/-0.271 χ^2/NDF : 947430.4/8

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1006.090+/-0.263 χ^2/NDF : 912294.0/8

Left: 991.057+/-0.189 χ^2/NDF : 1866424.5/17

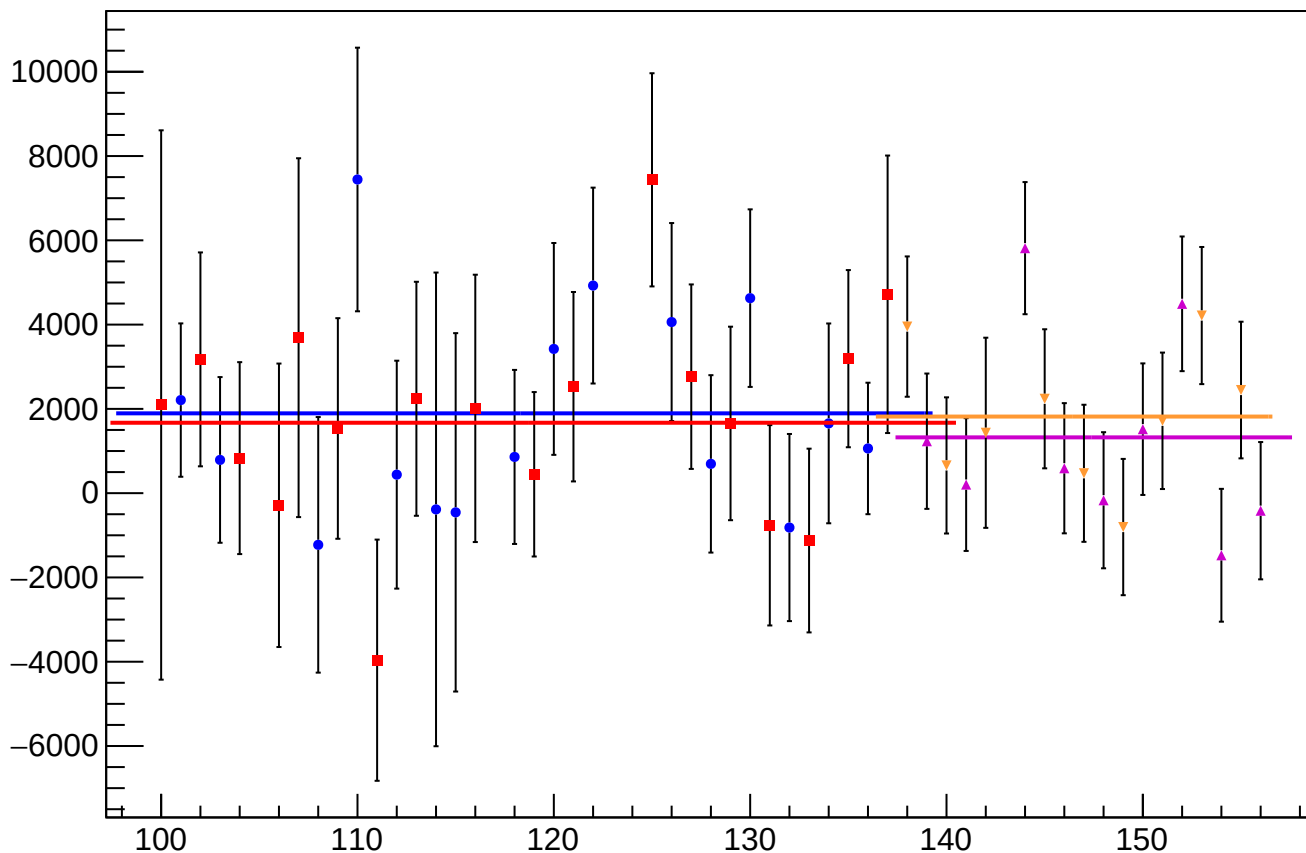
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 774.923+/-0.155 χ^2/NDF : 4855964.9/24

Out: 288.584+/-0.092 χ^2/NDF : 17488771.2/26

All: 414.554+/-0.079 χ^2/NDF : 29600533.0/53

dit_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1894.171 $\pm$ 577.631 χ^2 /NDF: 12.3/15

Left Out: 1817.741 $\pm$ 558.373 χ^2 /NDF:7.9/8

Right Out: 1670.933 $\pm$ 604.838 χ^2 /NDF: 15.0/17

Left In: 1323.949 $\pm$ 528.397 χ^2 /NDF:18.0/8

Left: 1557.235 $\pm$ 383.793 χ^2 /NDF: 26.3/17

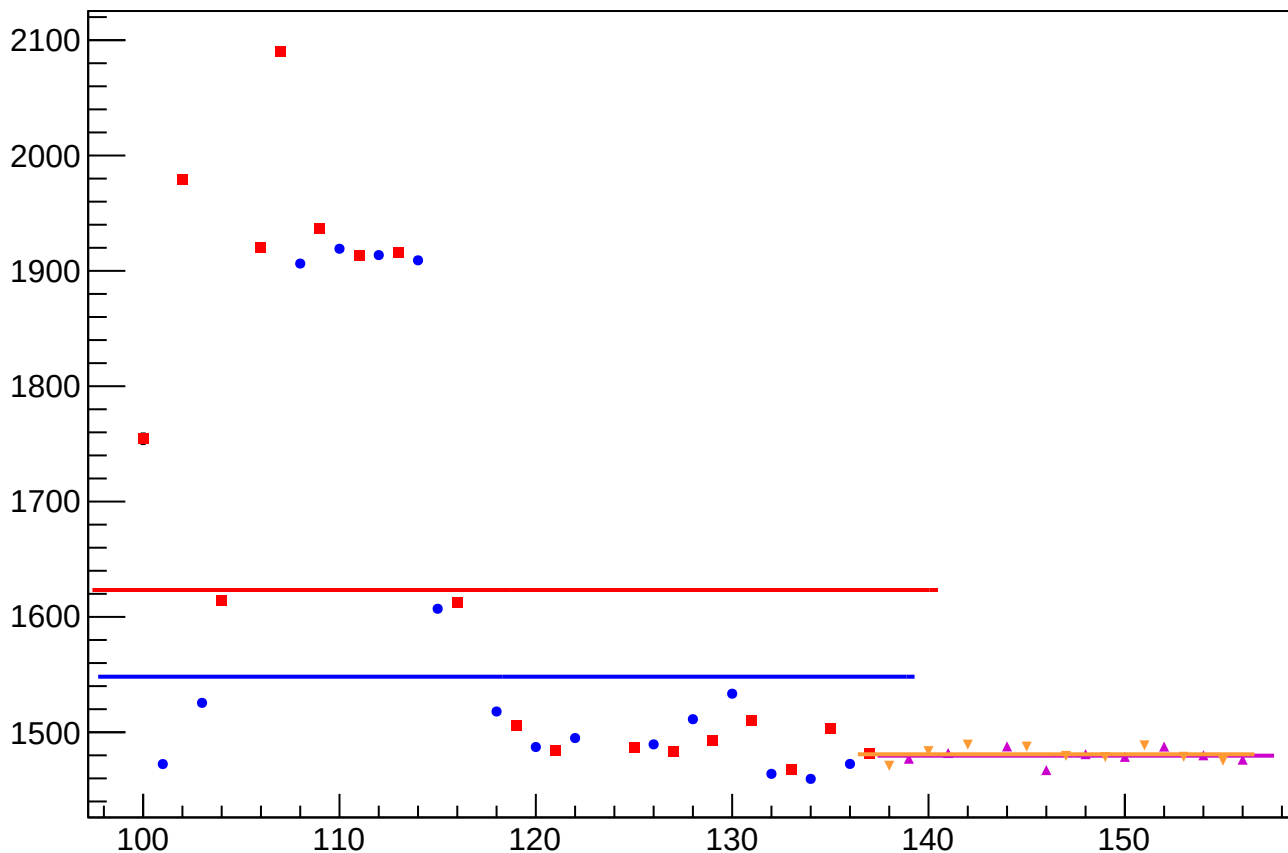
Right: 1787.686 $\pm$ 417.734 χ^2 /NDF: 27.4/33

In: 1583.728 $\pm$ 389.879 χ^2 /NDF:30.8/24

Out: 1750.192 $\pm$ 410.274 χ^2 /NDF:23.0/26

All: 1662.720 $\pm$ 282.621 χ^2 /NDF: 53.9/51

dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1548.174+/-0.408 χ^2/NDF : 119905.3/15

Left Out: 1480.910+/-0.395 χ^2/NDF : 215.0/8

Right Out: 1623.331+/-0.428 χ^2/NDF : 211534.0/17

Left In: 1479.707+/-0.374 χ^2/NDF : 253.1/8

Left: 1480.275+/-0.271 χ^2/NDF : 473.0/17

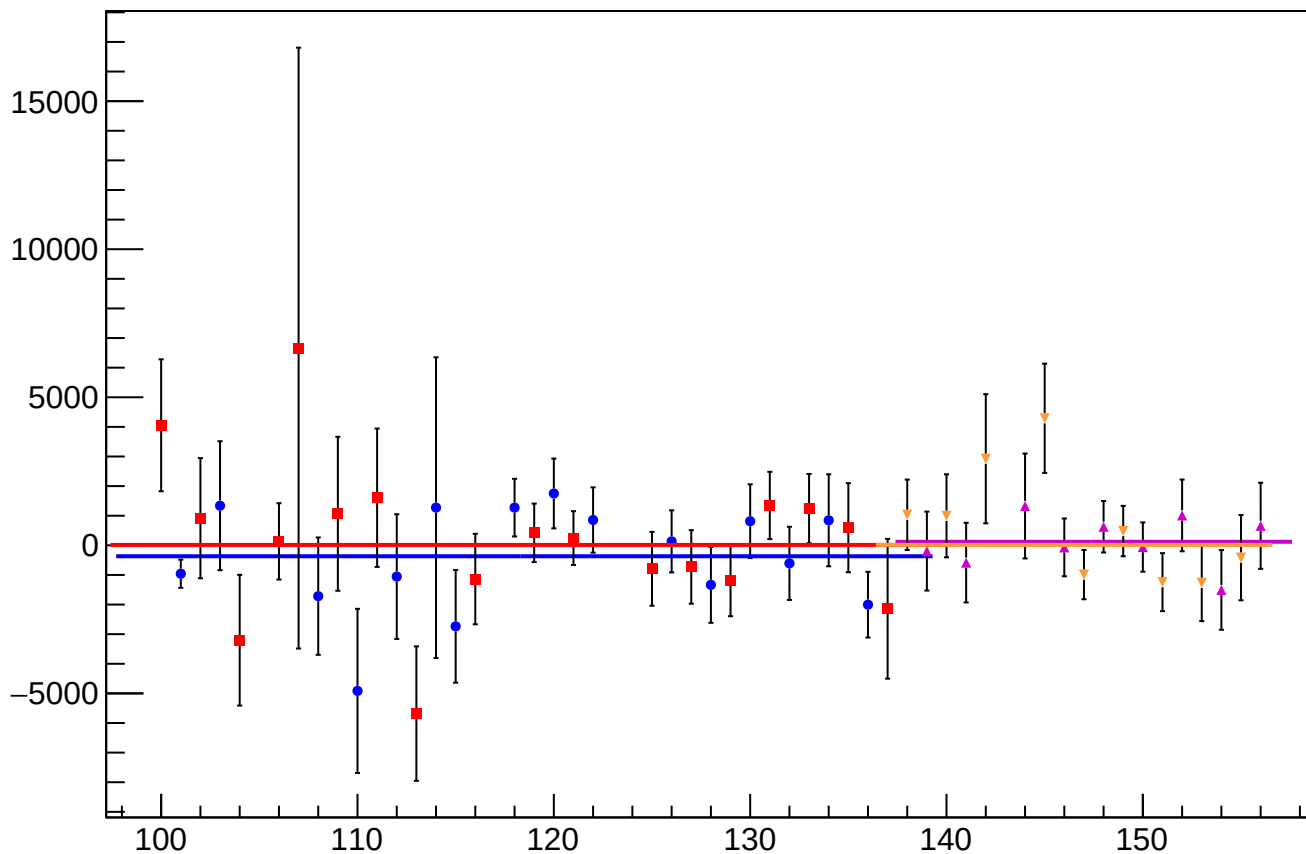
Right: 1584.024+/-0.295 χ^2/NDF : 347589.8/33

In: 1510.899+/-0.276 χ^2/NDF : 135456.1/24

Out: 1546.440+/-0.290 χ^2/NDF : 271617.2/26

All: 1527.764+/-0.200 χ^2/NDF : 414960.1/51

asym_usl_atl1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.708 ± 286.577 $\chi^2/\text{NDF}: 18.9/15$

Left Out: 14.216 ± 387.306 $\chi^2/\text{NDF}: 12.9/8$

Right Out: 13.729 ± 341.569 $\chi^2/\text{NDF}: 19.1/17$

Left In: 120.105 ± 379.131 $\chi^2/\text{NDF}: 3.4/8$

Left: 68.290 ± 270.930 $\chi^2/\text{NDF}: 16.2/17$

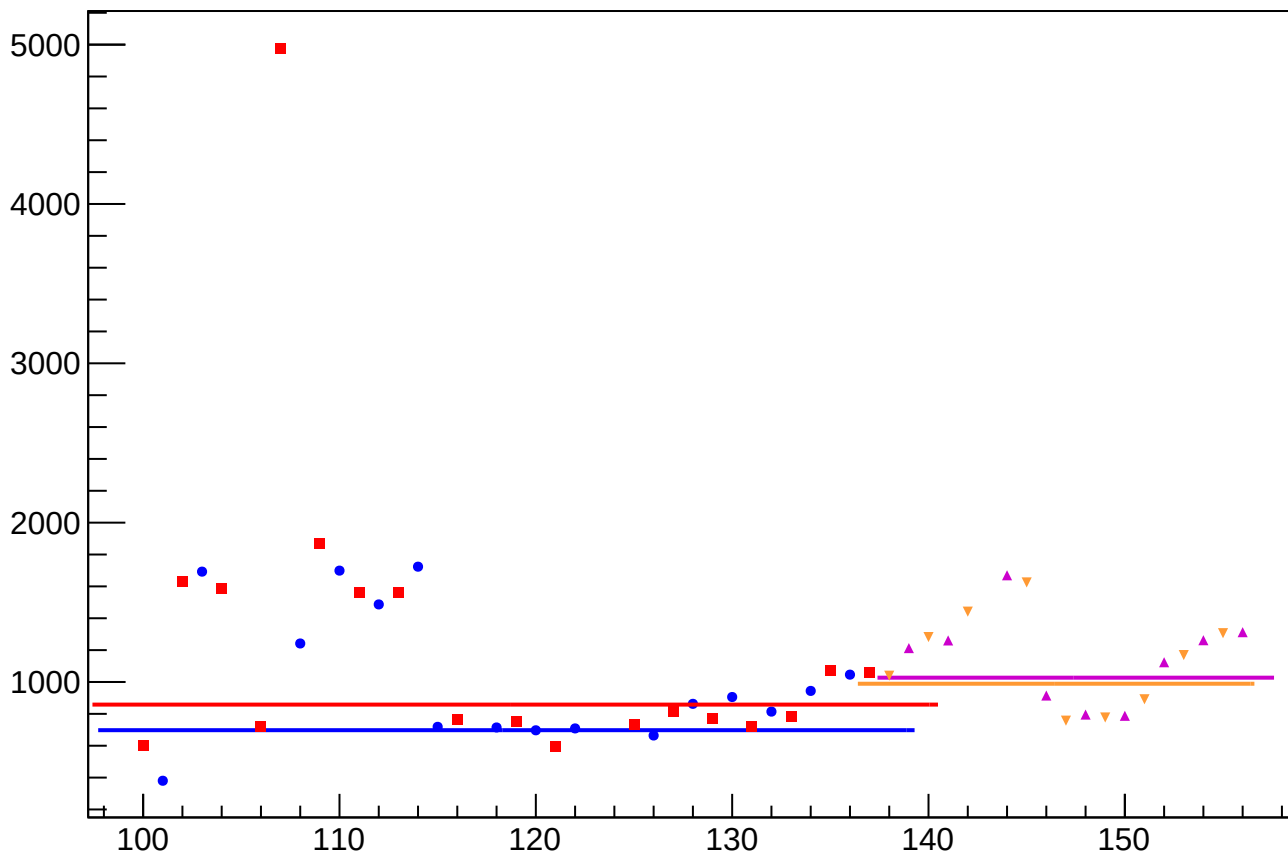
Right: -210.716 ± 219.541 $\chi^2/\text{NDF}: 38.7/33$

In: -190.974 ± 228.615 $\chi^2/\text{NDF}: 23.3/24$

Out: 13.942 ± 256.178 $\chi^2/\text{NDF}: 31.9/26$

All: -100.129 ± 170.570 $\chi^2/\text{NDF}: 55.6/51$

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: 989.023 ± 0.274 χ^2/NDF : 849272.9/8

Right Out: 858.095 ± 0.242 χ^2/NDF : 1882164.5/17

Left In: 1027.073 ± 0.268 χ^2/NDF : 846924.6/8

Left: 1008.454 ± 0.192 χ^2/NDF : 1706055.0/17

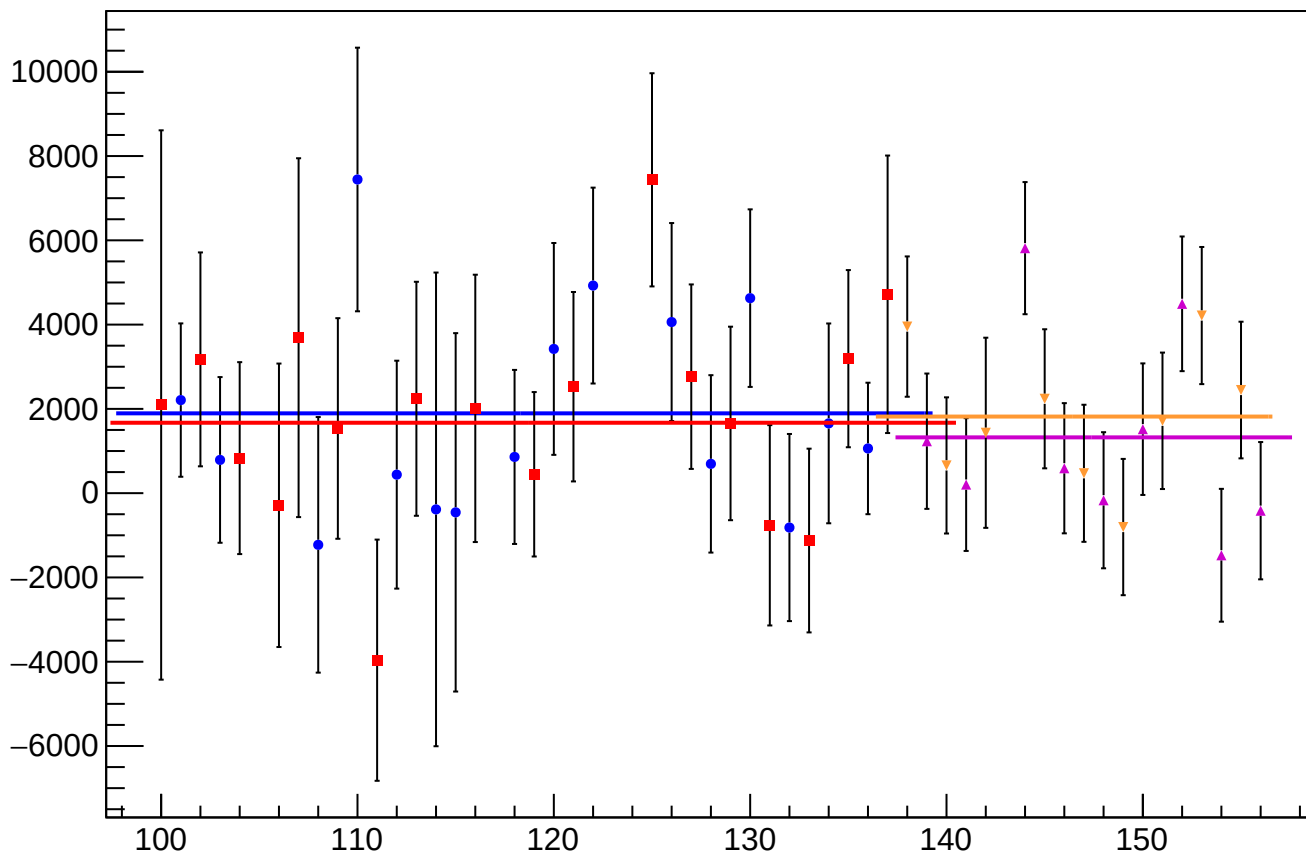
Right: 763.855 ± 0.155 χ^2/NDF : 4577183.5/33

In: 817.345 ± 0.162 χ^2/NDF : 4244218.8/24

Out: 915.376 ± 0.181 χ^2/NDF : 2859998.1/26

All: 860.804 ± 0.121 χ^2/NDF : 7267249.2/51

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: 1817.739+/-558.373 χ^2/NDF : 7.9/8

Right Out: 1670.931+/-604.838 χ^2/NDF : 15.0/17

Left In: 1323.950+/-528.397 χ^2/NDF : 18.0/8

Left: 1557.235+/-383.793 χ^2/NDF : 26.3/17

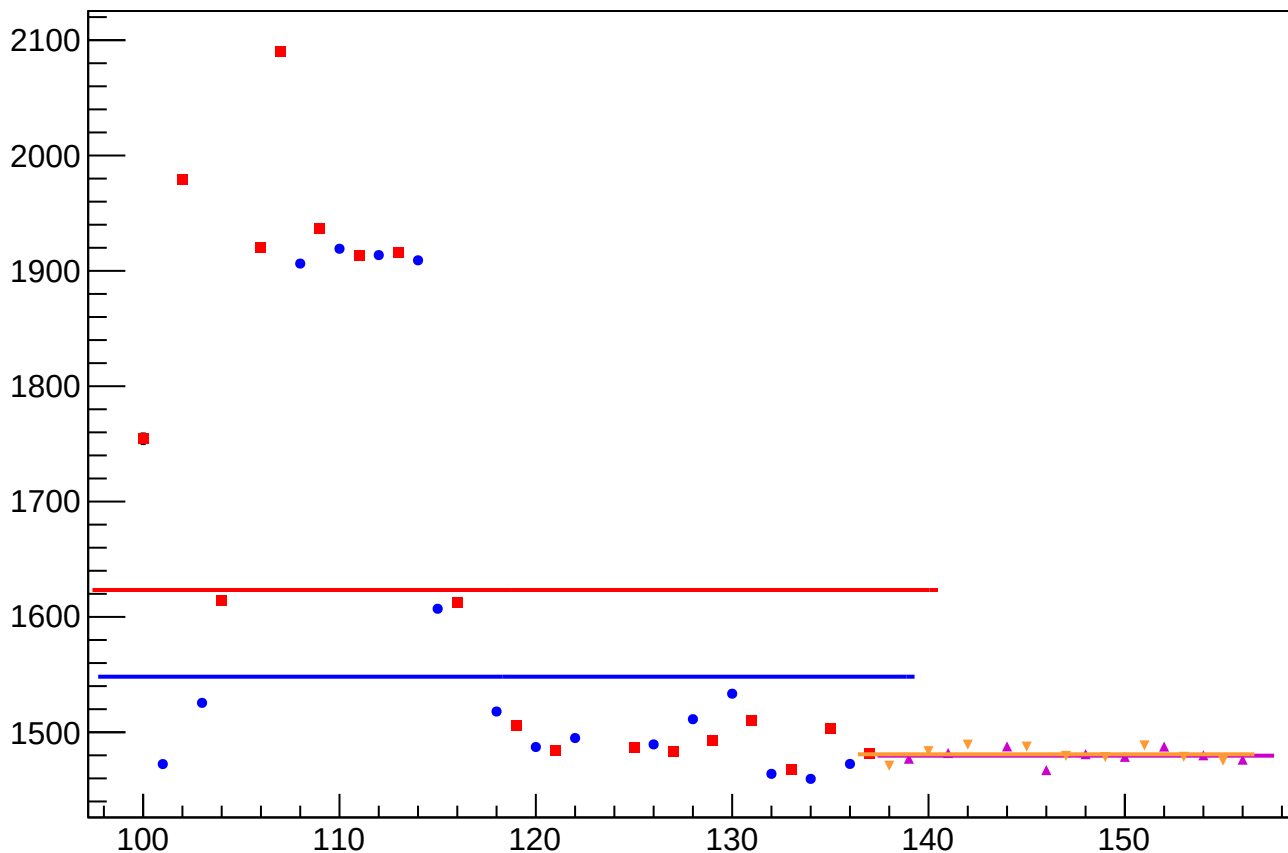
Right: 1787.684+/-417.734 χ^2/NDF : 27.4/33

In: 1583.727+/-389.879 χ^2/NDF : 30.8/24

Out: 1750.190+/-410.274 χ^2/NDF : 23.0/26

All: 1662.718+/-282.621 χ^2/NDF : 53.9/51

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: 1480.910+/-0.395 χ^2/NDF : 215.0/8

Right Out: 1623.330+/-0.428 χ^2/NDF : 211533.9/17

Left In: 1479.707+/-0.374 χ^2/NDF : 253.1/8

Left: 1480.275+/-0.271 χ^2/NDF : 473.0/17

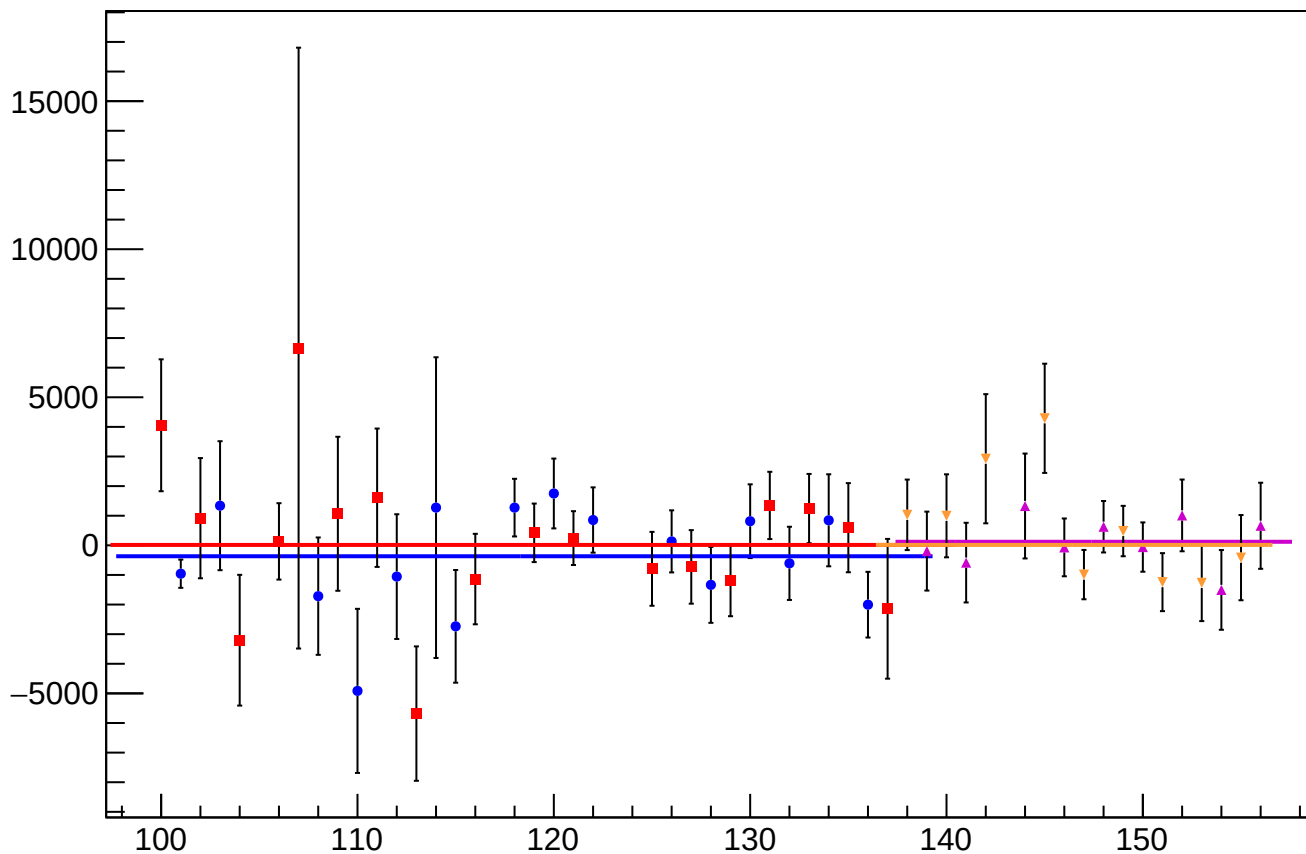
Right: 1584.024+/-0.295 χ^2/NDF : 347589.7/33

In: 1510.899+/-0.276 χ^2/NDF : 135456.1/24

Out: 1546.440+/-0.290 χ^2/NDF : 271616.8/26

All: 1527.764+/-0.200 χ^2/NDF : 414959.7/51

asym_usl_atl1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.707 ± 286.576 $\chi^2/\text{NDF}: 18.9/15$

Left Out: 14.212 ± 387.307 $\chi^2/\text{NDF}: 12.9/8$

Right Out: 13.730 ± 341.568 $\chi^2/\text{NDF}: 19.1/17$

Left In: 120.106 ± 379.132 $\chi^2/\text{NDF}: 3.4/8$

Left: 68.289 ± 270.931 $\chi^2/\text{NDF}: 16.2/17$

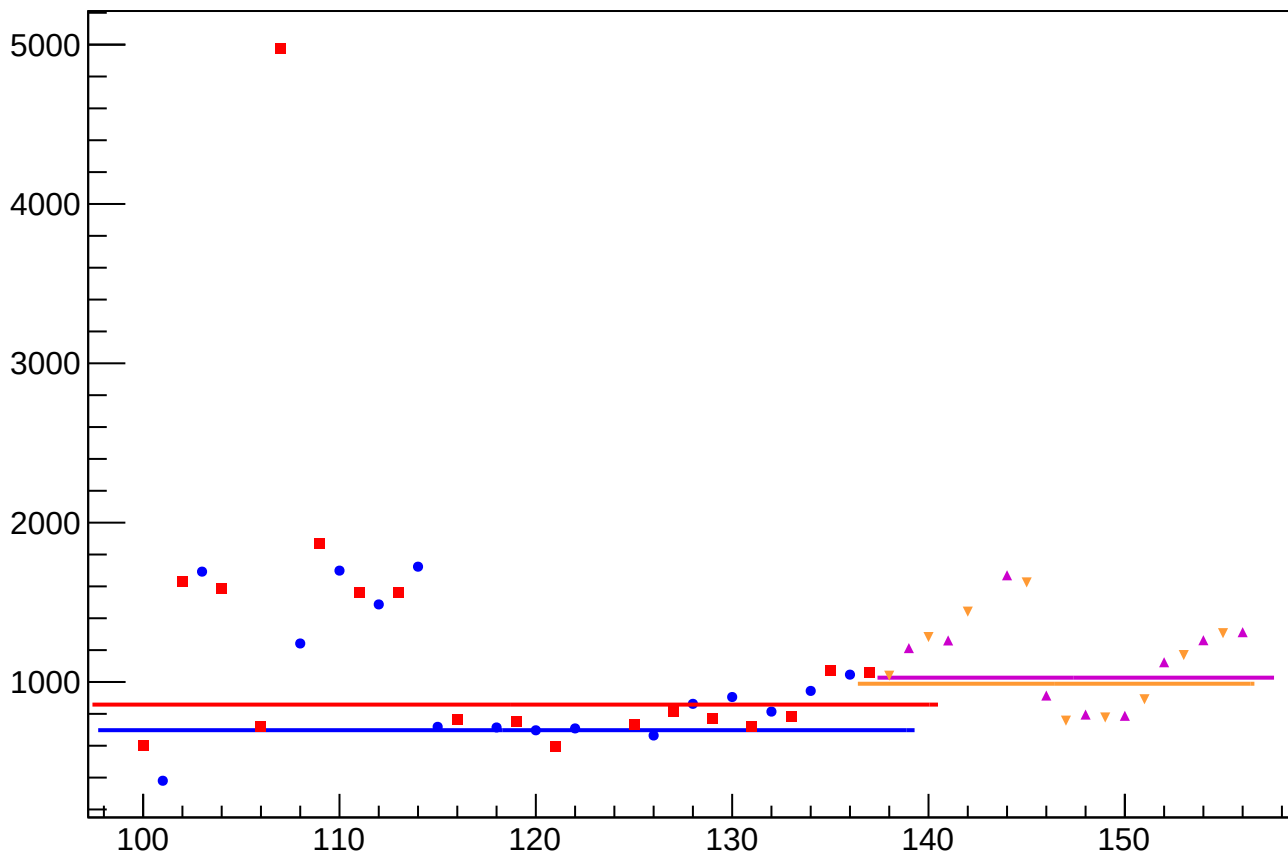
Right: -210.715 ± 219.541 $\chi^2/\text{NDF}: 38.7/33$

In: -190.973 ± 228.615 $\chi^2/\text{NDF}: 23.3/24$

Out: 13.941 ± 256.178 $\chi^2/\text{NDF}: 31.9/26$

All: -100.129 ± 170.571 $\chi^2/\text{NDF}: 55.6/51$

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 697.517 $\pm$ 0.203 χ^2 /NDF: 2435593.9/15

Left Out: 989.024 $\pm$ 0.274 χ^2 /NDF: 849271.1/8

Right Out: 858.094 $\pm$ 0.242 χ^2 /NDF: 1882174.1/17

Left In: 1027.074 $\pm$ 0.268 χ^2 /NDF: 846921.0/8

Left: 1008.455 $\pm$ 0.192 χ^2 /NDF: 1706049.6/17

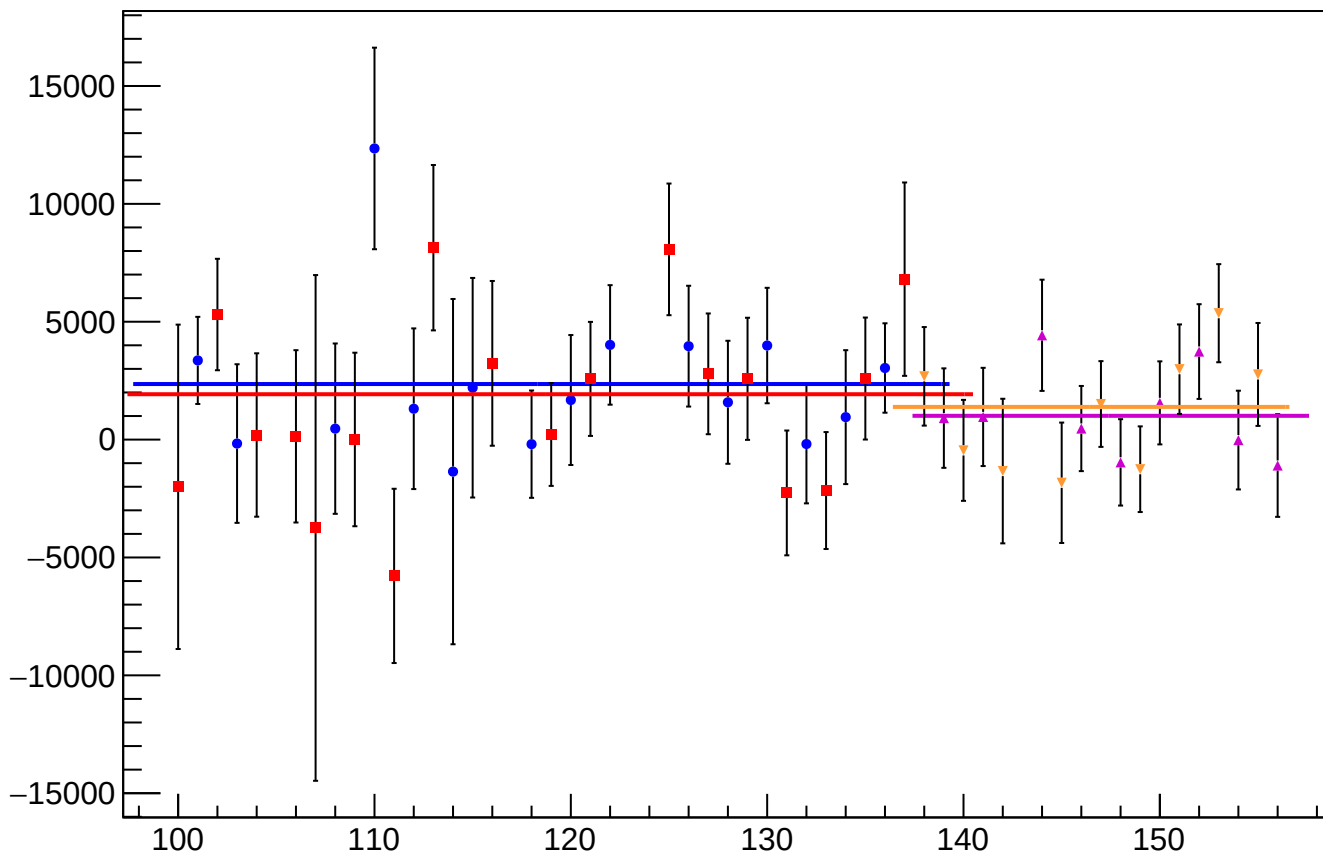
Right: 763.854 $\pm$ 0.155 χ^2 /NDF: 4577181.2/33

In: 817.345 $\pm$ 0.162 χ^2 /NDF: 4244215.4/24

Out: 915.375 $\pm$ 0.181 χ^2 /NDF: 2860012.0/26

All: 860.805 $\pm$ 0.121 χ^2 /NDF: 7267257.0/51

asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 2356.998 $\pm$ 678.944 χ^2/NDF : 11.0/15

Left Out: 1387.099 $\pm$ 701.839 χ^2/NDF :10.4/8

Right Out: 1924.824 $\pm$ 706.809 χ^2/NDF : 23.4/17

Left In: 1009.308 $\pm$ 666.968 χ^2/NDF :6.5/8

Left: 1188.586 $\pm$ 483.476 χ^2/NDF : 17.0/17

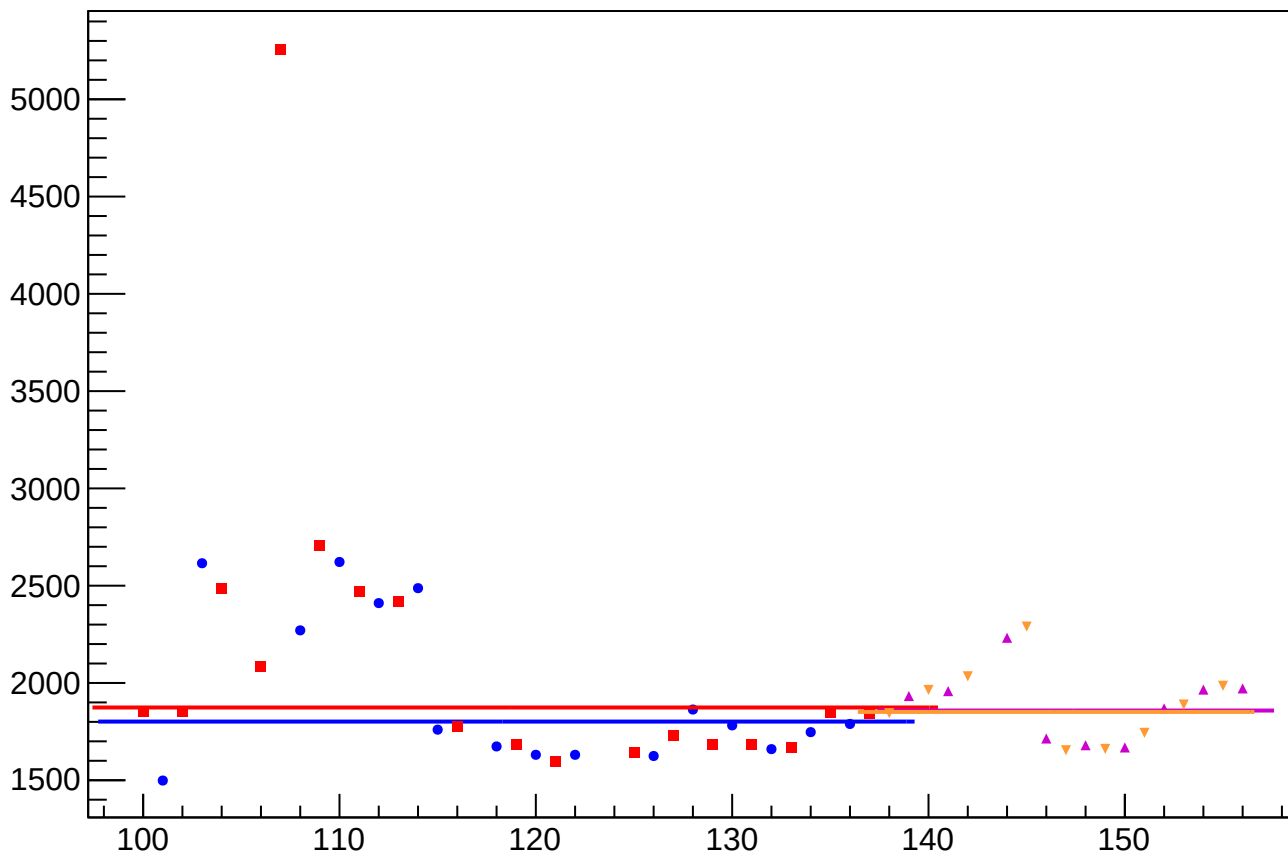
Right: 2149.598 $\pm$ 489.640 χ^2/NDF : 34.6/33

In: 1671.163 $\pm$ 475.795 χ^2/NDF :19.5/24

Out: 1654.065 $\pm$ 498.023 χ^2/NDF :34.1/26

All: 1663.004 $\pm$ 344.028 χ^2/NDF : 53.6/51

asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1801.529+/-0.480 χ^2/NDF : 400702.5/15

Left Out: 1851.153+/-0.496 χ^2/NDF :131723.6/8

Right Out: 1873.976+/-0.500 χ^2/NDF : 569909.0/17

Left In: 1858.246+/-0.472 χ^2/NDF :123006.3/8

Left: 1854.880+/-0.342 χ^2/NDF : 254837.3/17

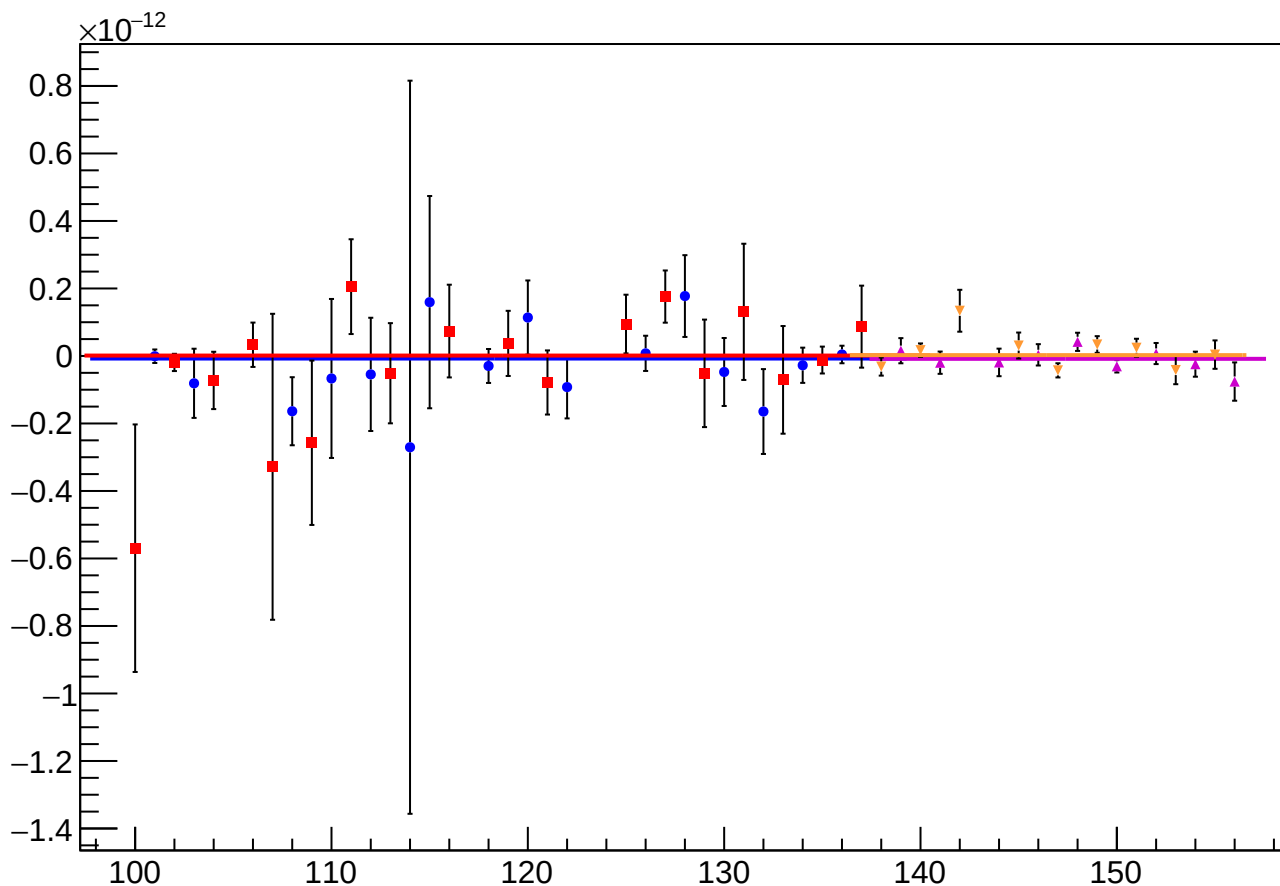
Right: 1836.296+/-0.346 χ^2/NDF : 981540.0/33

In: 1830.392+/-0.336 χ^2/NDF :530811.6/24

Out: 1862.484+/-0.352 χ^2/NDF :702682.6/26

All: 1845.706+/-0.243 χ^2/NDF : 1237836.1/51

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 : 15.2/8

Right Out: 0.000+/-0.000 χ^2/NDF : 16.7/17

Left In: -0.000+/-0.000 χ^2/NDF : 7.5/8

Left: -0.000+/-0.000 χ^2/NDF : 23.3/17

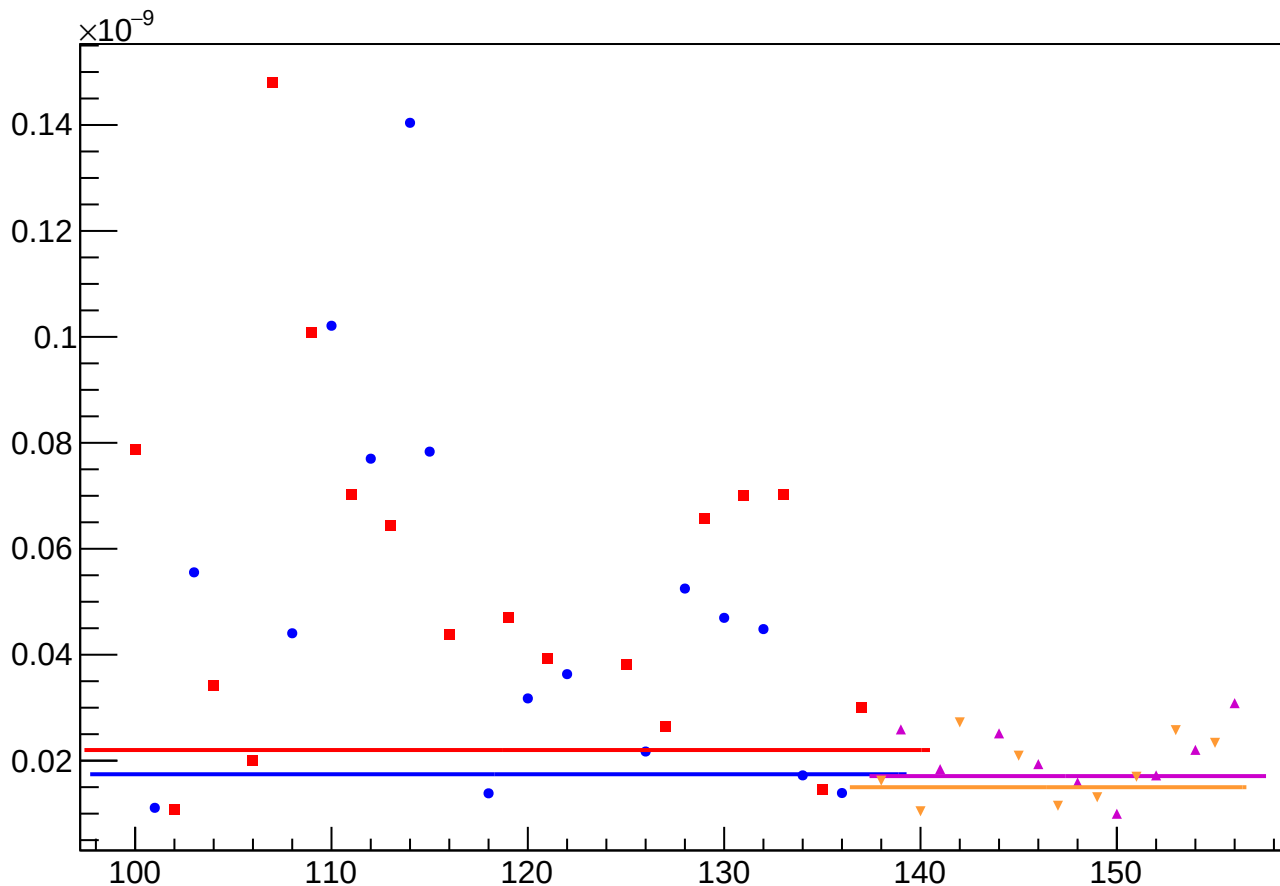
Right: -0.000+/-0.000 χ^2/NDF : 27.1/33

In: -0.000+/-0.000 χ^2/NDF : 17.8/24

Out: 0.000+/-0.000 χ^2/NDF : 31.9/26

All: -0.000+/-0.000 χ^2/NDF : 50.4/51

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 : 522948.9/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2098640.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 659665.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1228399.0/17

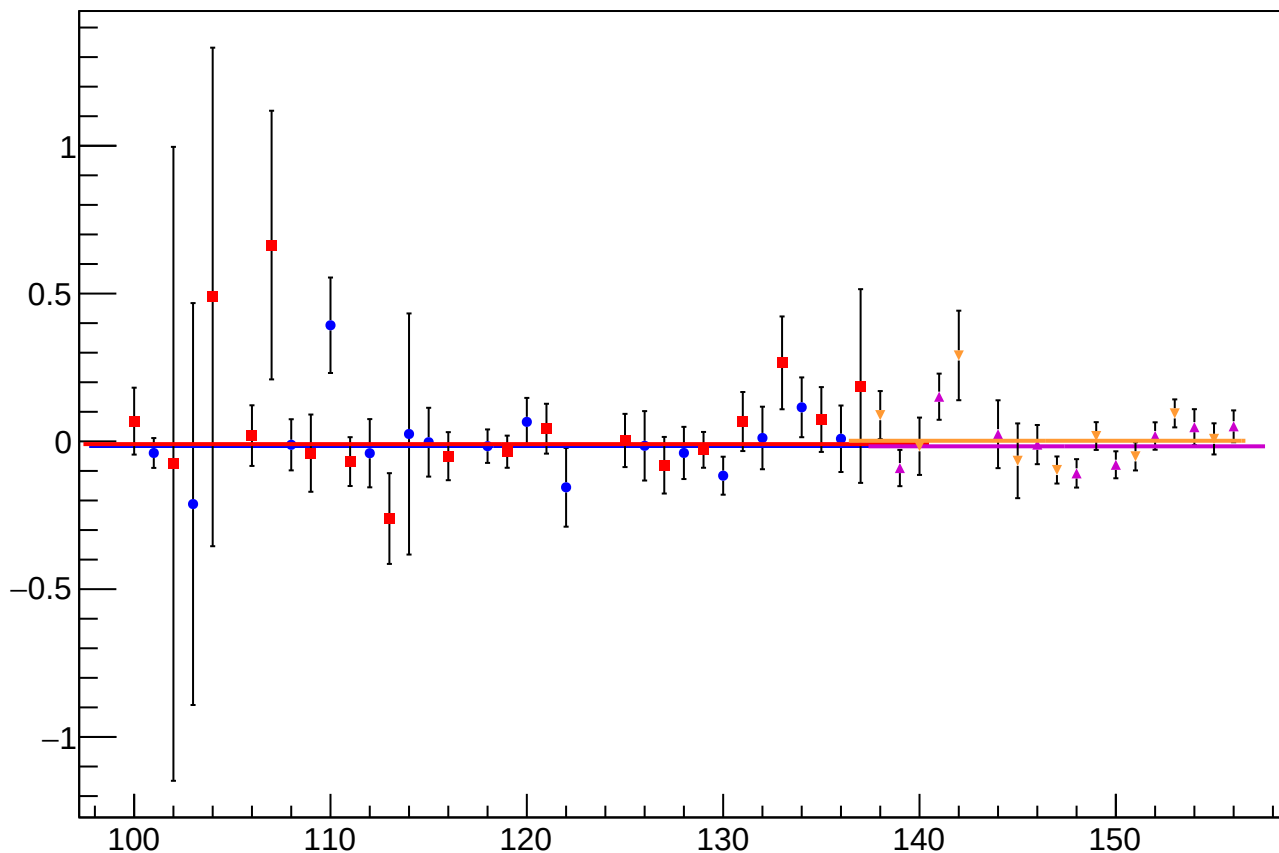
Right: 0.000+/-0.000 χ^2/NDF : 4028264.0/33

In: 0.000+/-0.000 χ^2/NDF : 2500616.4/24

Out: 0.000+/-0.000 χ^2/NDF : 2878982.3/26

All: 0.000+/-0.000 χ^2/NDF : 5385117.6/51

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: 0.002 ± 0.020 $\chi^2/\text{NDF}: 14.9/8$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: -0.017 ± 0.019 $\chi^2/\text{NDF}: 15.0/8$

Left: -0.008 ± 0.014 $\chi^2/\text{NDF}: 30.4/17$

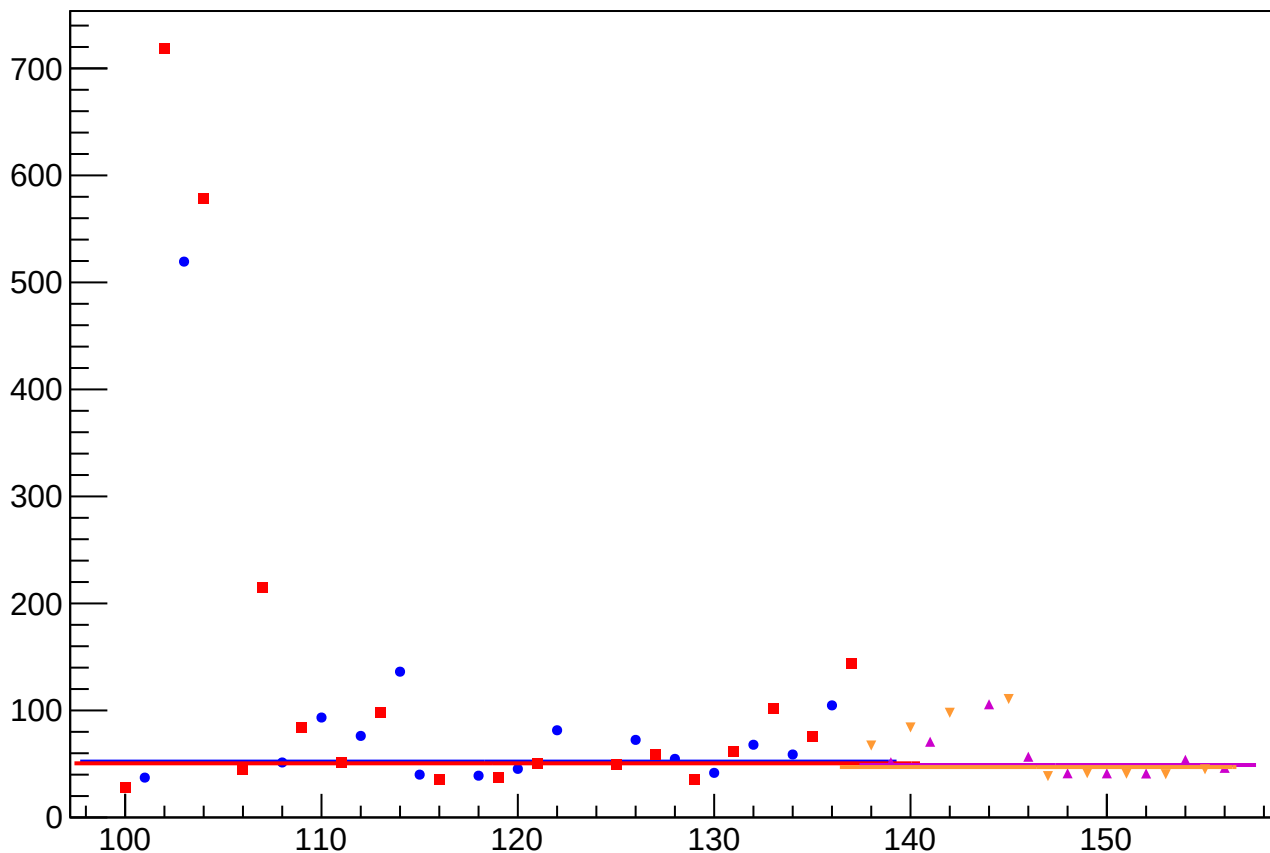
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.016 ± 0.015 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.003 ± 0.015 $\chi^2/\text{NDF}: 27.5/26$

All: -0.010 ± 0.011 $\chi^2/\text{NDF}: 56.1/51$

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: 47.089+/-0.014 χ^2/NDF : 1319597.2/8

Right Out: 50.582+/-0.017 χ^2/NDF : 3051379.6/17

Left In: 49.016+/-0.014 χ^2/NDF : 860511.6/8

Left: 48.087+/-0.010 χ^2/NDF : 2189867.2/17

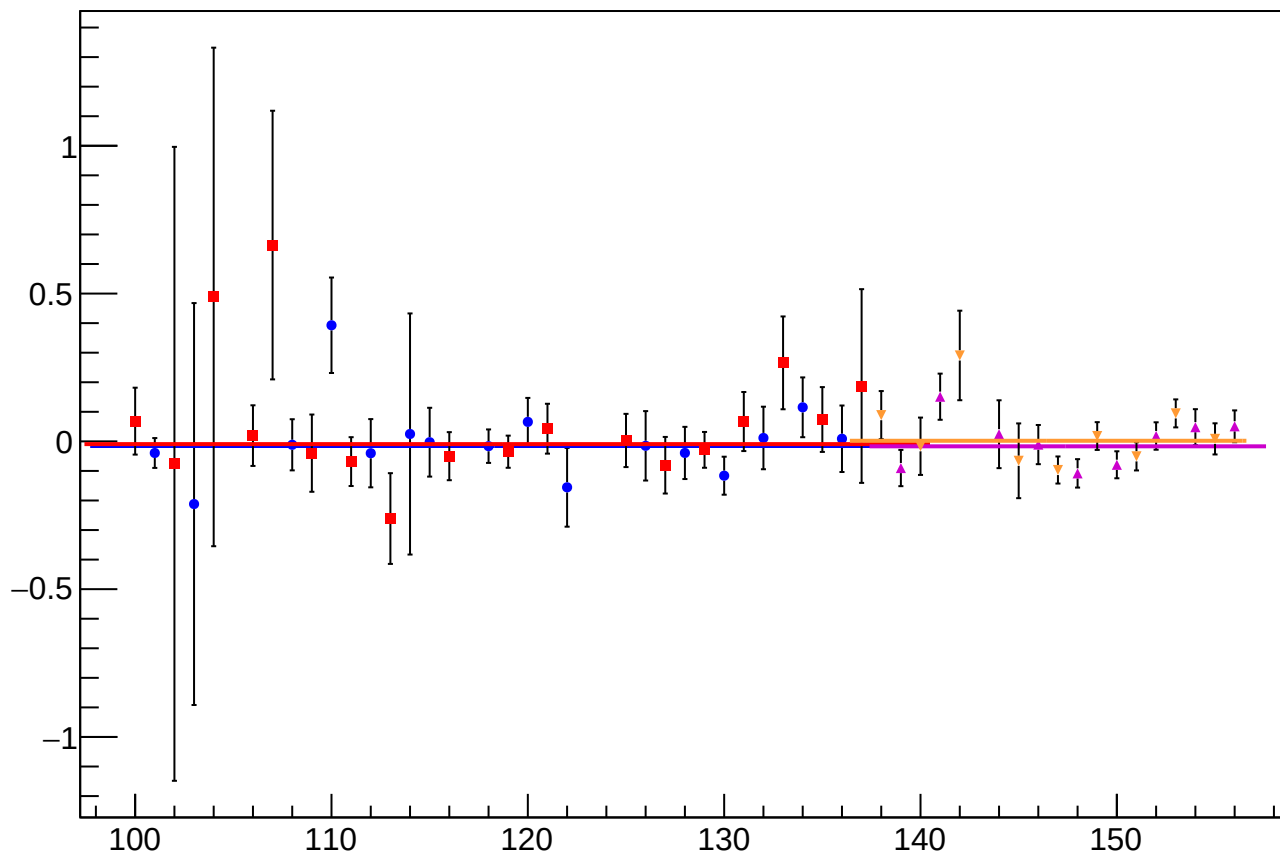
Right: 51.419+/-0.012 χ^2/NDF : 5323147.3/33

In: 50.340+/-0.010 χ^2/NDF : 3150353.8/24

Out: 48.537+/-0.011 χ^2/NDF : 4396636.3/26

All: 49.473+/-0.007 χ^2/NDF : 7561623.1/51

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: 0.002 ± 0.020 $\chi^2/\text{NDF}: 14.9/8$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: -0.017 ± 0.019 $\chi^2/\text{NDF}: 15.0/8$

Left: -0.008 ± 0.014 $\chi^2/\text{NDF}: 30.4/17$

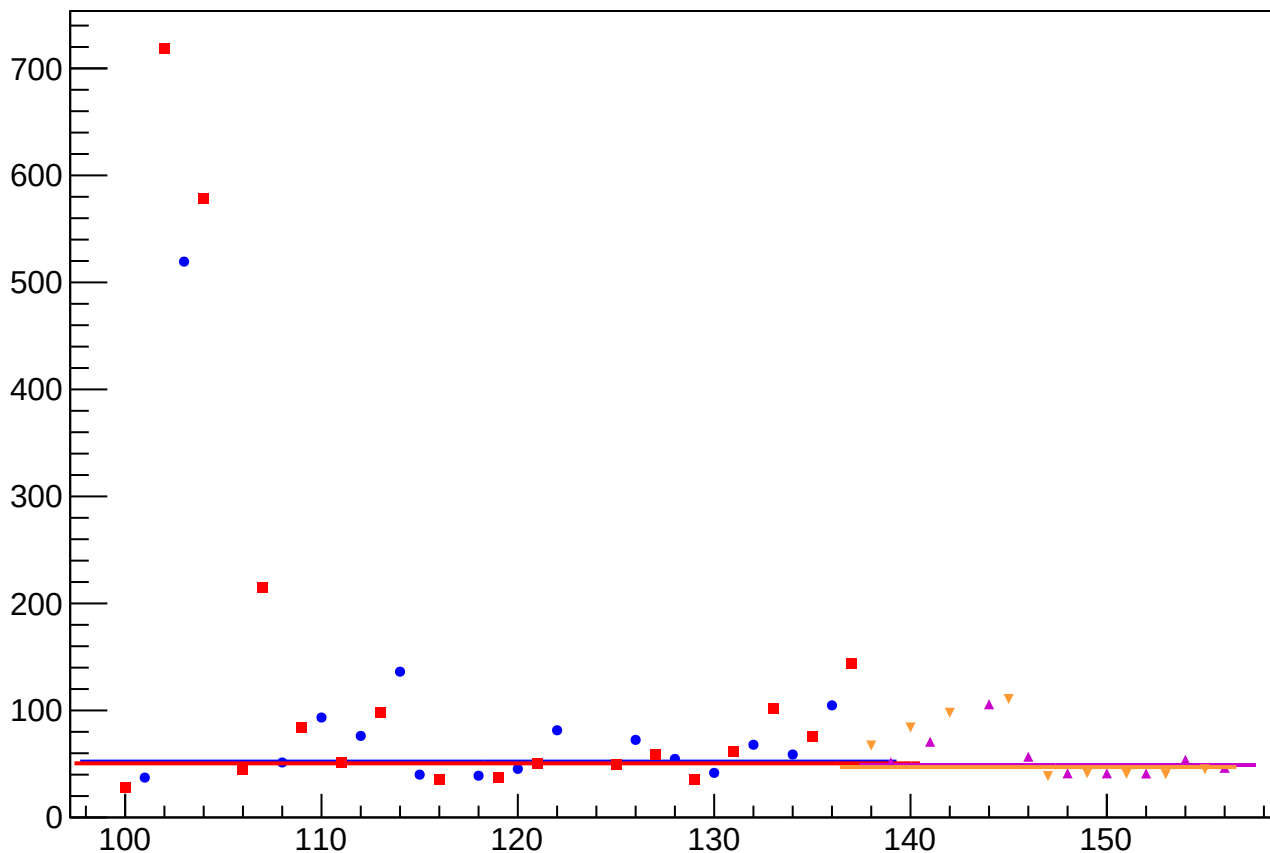
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.016 ± 0.015 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.003 ± 0.015 $\chi^2/\text{NDF}: 27.5/26$

All: -0.010 ± 0.011 $\chi^2/\text{NDF}: 56.1/51$

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: 47.089+/-0.014 χ^2/NDF : 1319597.2/8

Right Out: 50.582+/-0.017 χ^2/NDF : 3051379.6/17

Left In: 49.016+/-0.014 χ^2/NDF : 860511.6/8

Left: 48.087+/-0.010 χ^2/NDF : 2189867.2/17

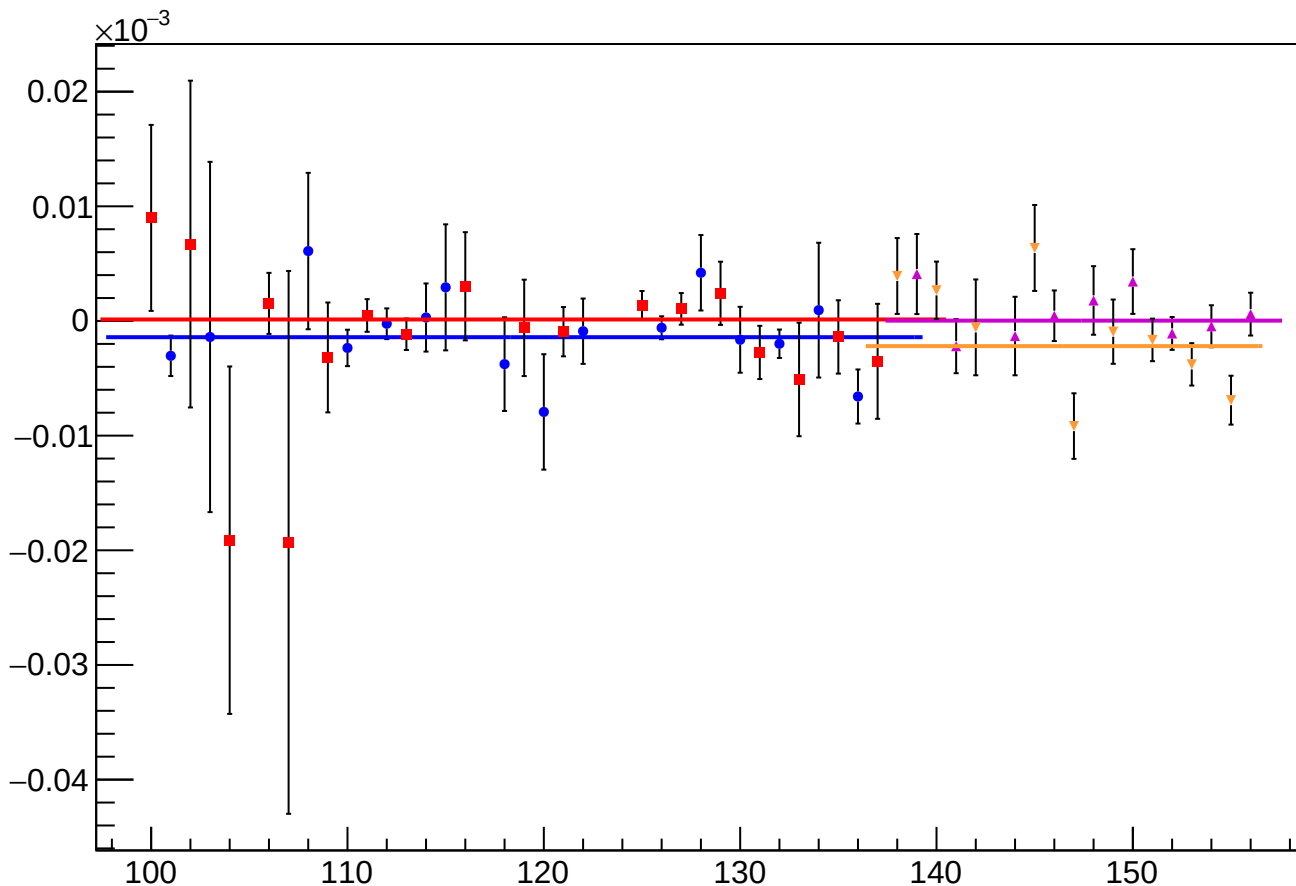
Right: 51.419+/-0.012 χ^2/NDF : 5323147.3/33

In: 50.340+/-0.010 χ^2/NDF : 3150353.8/24

Out: 48.537+/-0.011 χ^2/NDF : 4396636.3/26

All: 49.473+/-0.007 χ^2/NDF : 7561623.1/51

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 : 24.4/8

Right Out: 0.000+/-0.000 χ^2/NDF : 11.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 5.0/8

Left: -0.000+/-0.000 χ^2/NDF : 33.5/17

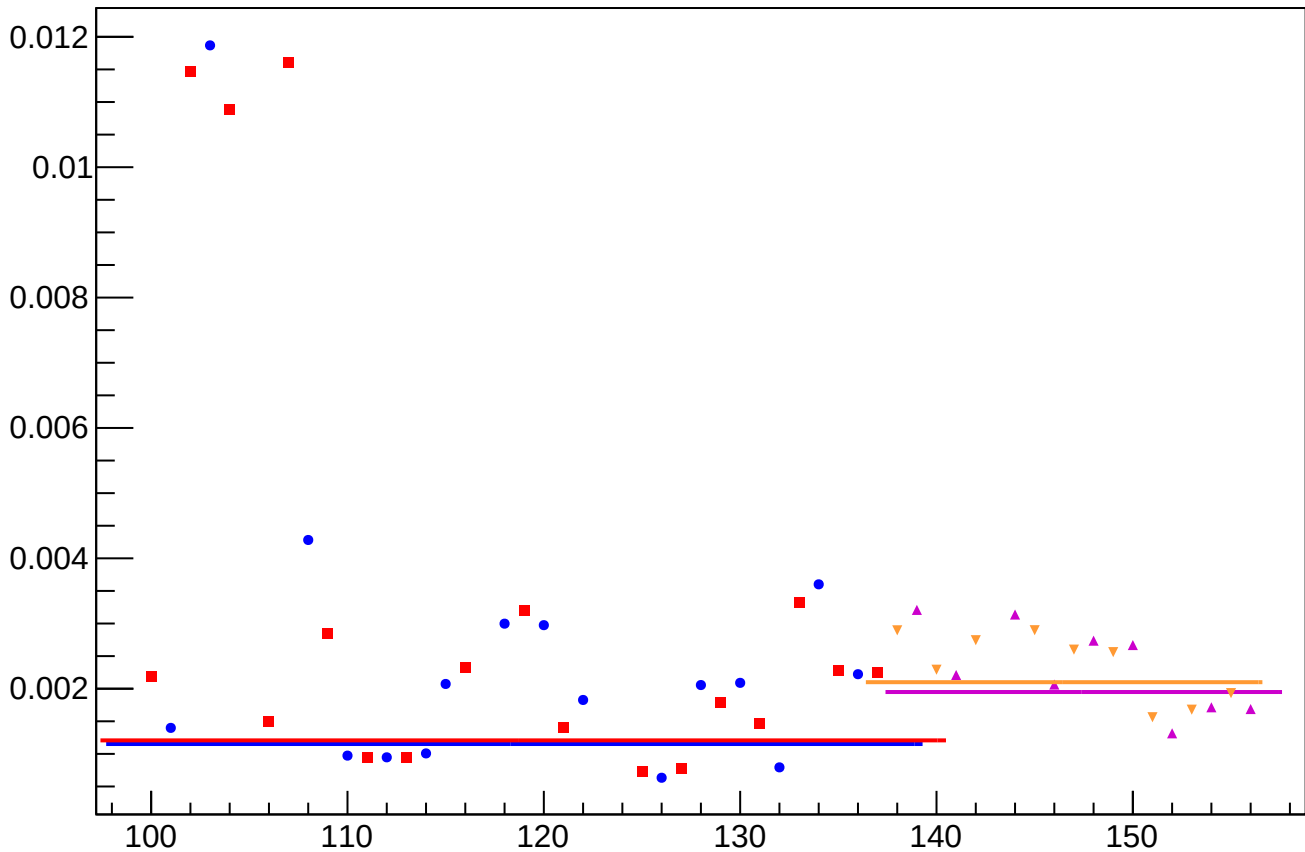
Right: -0.000+/-0.000 χ^2/NDF : 30.7/33

In: -0.000+/-0.000 χ^2/NDF : 22.6/24

Out: -0.000+/-0.000 χ^2/NDF : 41.4/26

All: -0.000+/-0.000 χ^2/NDF : 64.3/51

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: 0.002+/-0.000 χ^2/NDF : 664973.5/8

Right Out: 0.001+/-0.000 χ^2/NDF : 4521920.0/17

Left In: 0.002+/-0.000 χ^2/NDF : 1265015.9/8

Left: 0.002+/-0.000 χ^2/NDF : 1966852.7/17

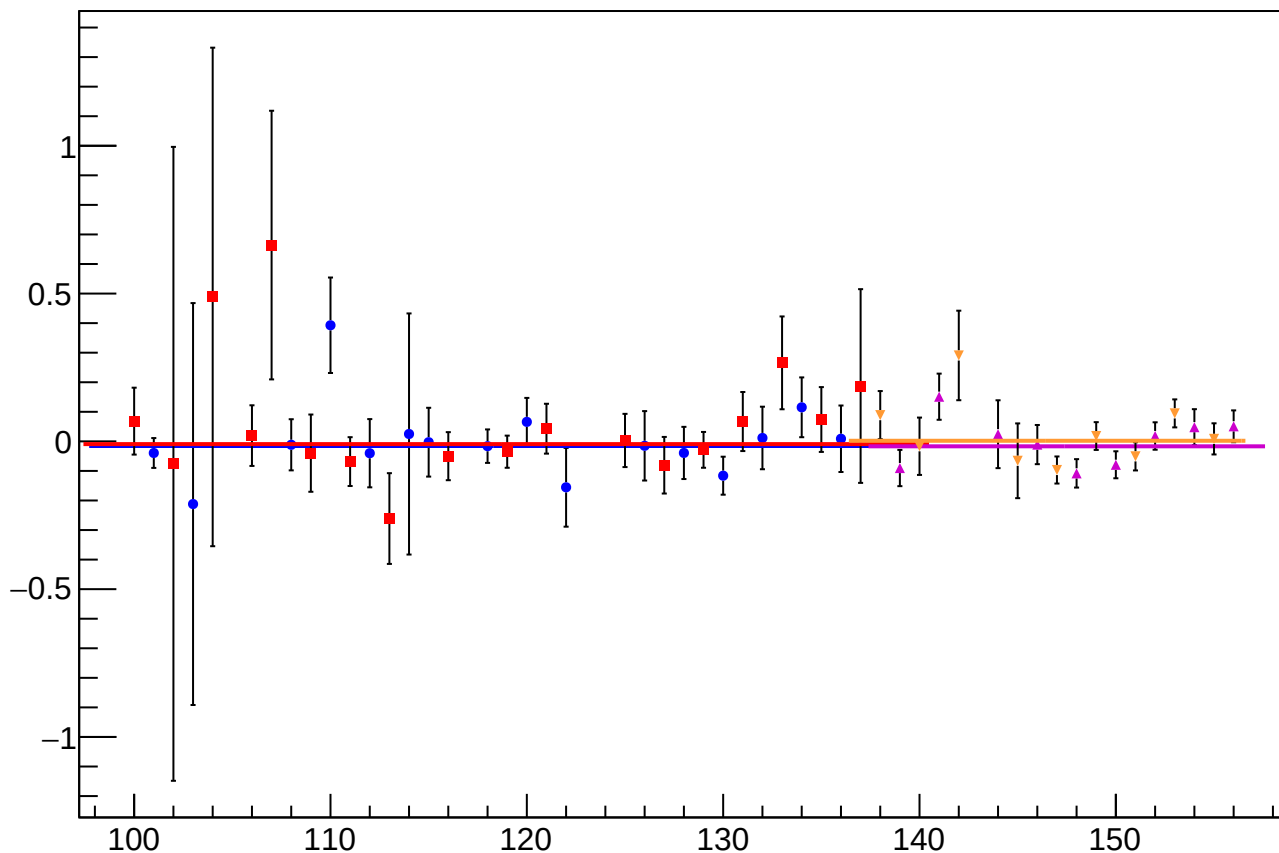
Right: 0.001+/-0.000 χ^2/NDF : 8720631.4/33

In: 0.001+/-0.000 χ^2/NDF : 7035808.4/24

Out: 0.001+/-0.000 χ^2/NDF : 6767600.4/26

All: 0.001+/-0.000 χ^2/NDF : 13825009.3/51

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: 0.002 ± 0.020 $\chi^2/\text{NDF}: 14.9/8$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: -0.017 ± 0.019 $\chi^2/\text{NDF}: 15.0/8$

Left: -0.008 ± 0.014 $\chi^2/\text{NDF}: 30.4/17$

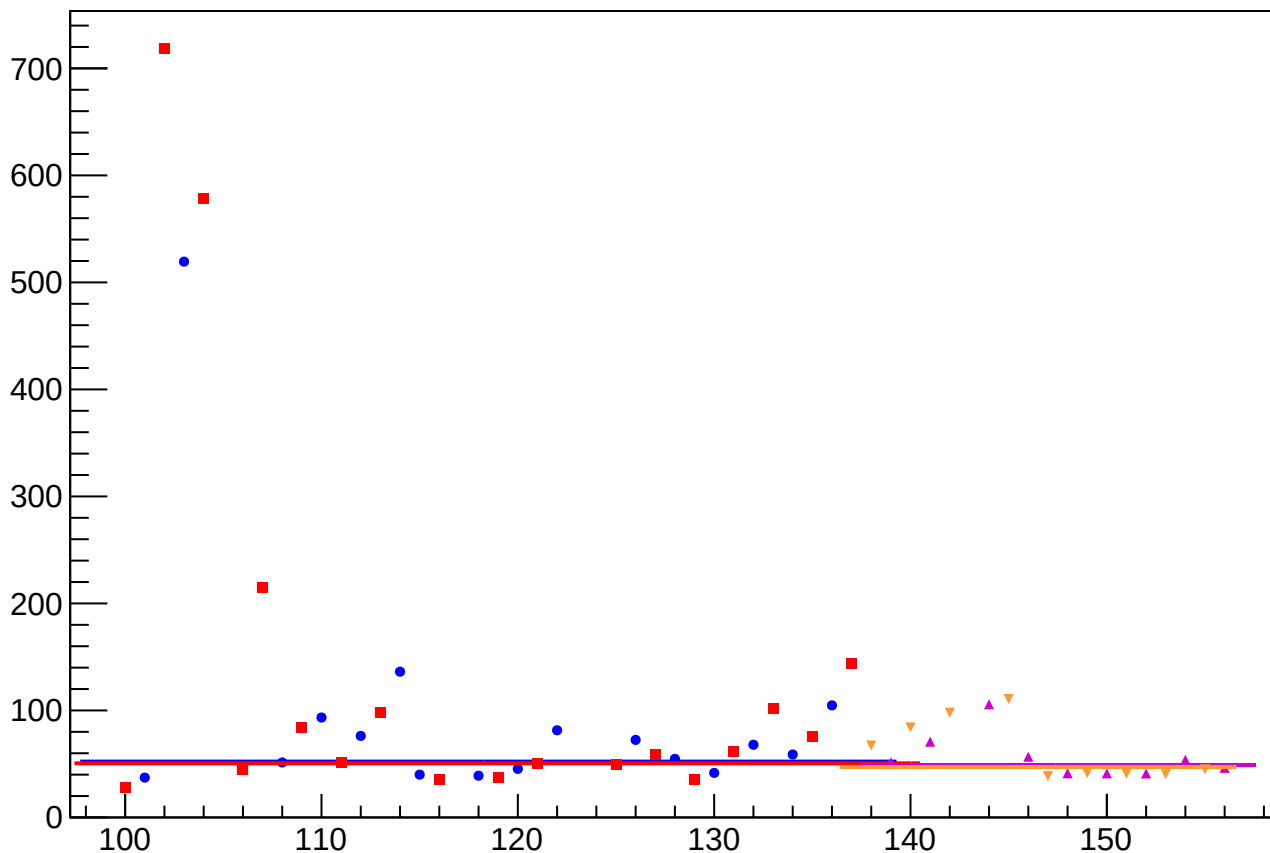
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.016 ± 0.015 $\chi^2/\text{NDF}: 28.1/24$

Out: -0.003 ± 0.015 $\chi^2/\text{NDF}: 27.5/26$

All: -0.010 ± 0.011 $\chi^2/\text{NDF}: 56.1/51$

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: 47.089+/-0.014 χ^2/NDF : 1319575.4/8

Right Out: 50.582+/-0.017 χ^2/NDF : 3051364.2/17

Left In: 49.016+/-0.014 χ^2/NDF : 860496.3/8

Left: 48.087+/-0.010 χ^2/NDF : 2189830.8/17

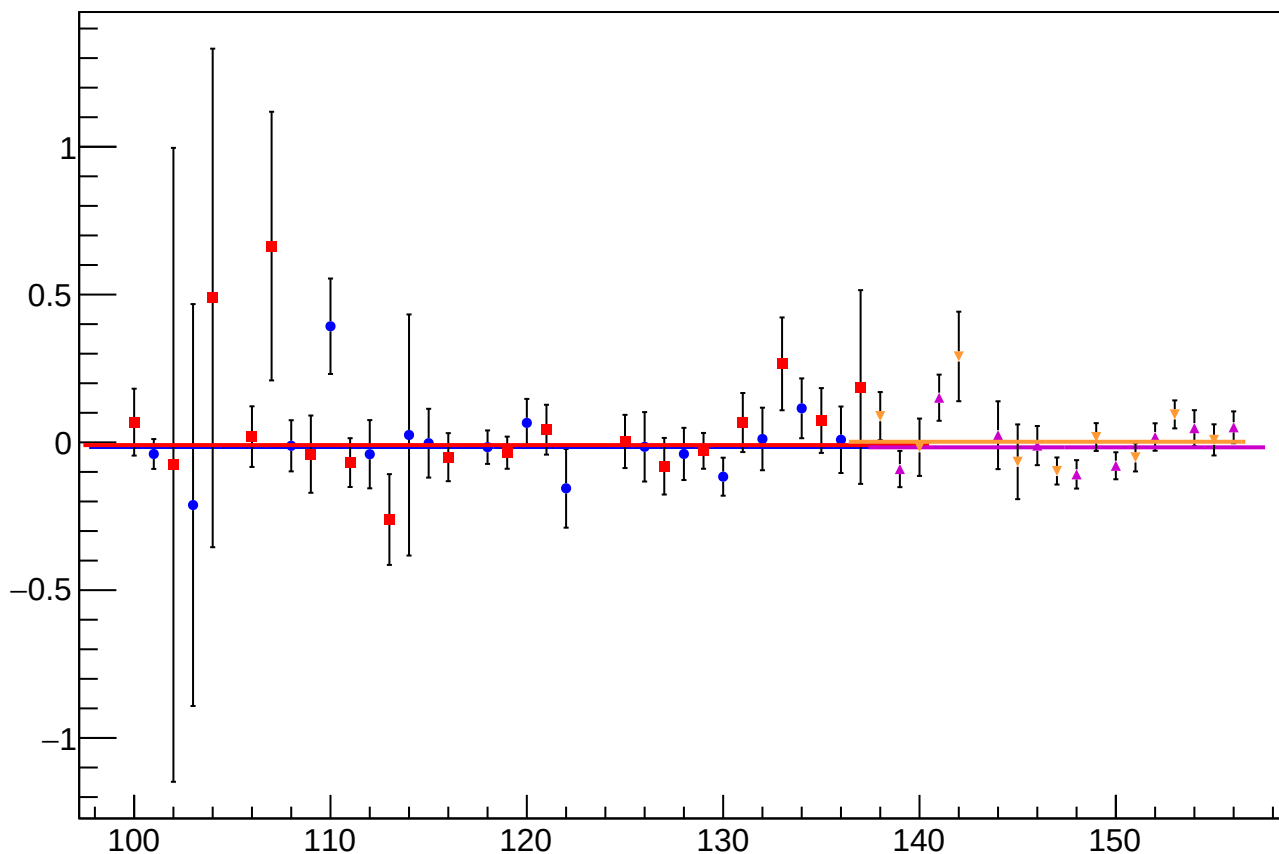
Right: 51.419+/-0.012 χ^2/NDF : 5323126.6/33

In: 50.340+/-0.010 χ^2/NDF : 3150328.6/24

Out: 48.537+/-0.011 χ^2/NDF : 4396594.8/26

All: 49.473+/-0.007 χ^2/NDF : 7561557.9/51

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: 0.002 ± 0.020 $\chi^2/\text{NDF}: 14.9/8$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: -0.017 ± 0.019 $\chi^2/\text{NDF}: 15.0/8$

Left: -0.008 ± 0.014 $\chi^2/\text{NDF}: 30.4/17$

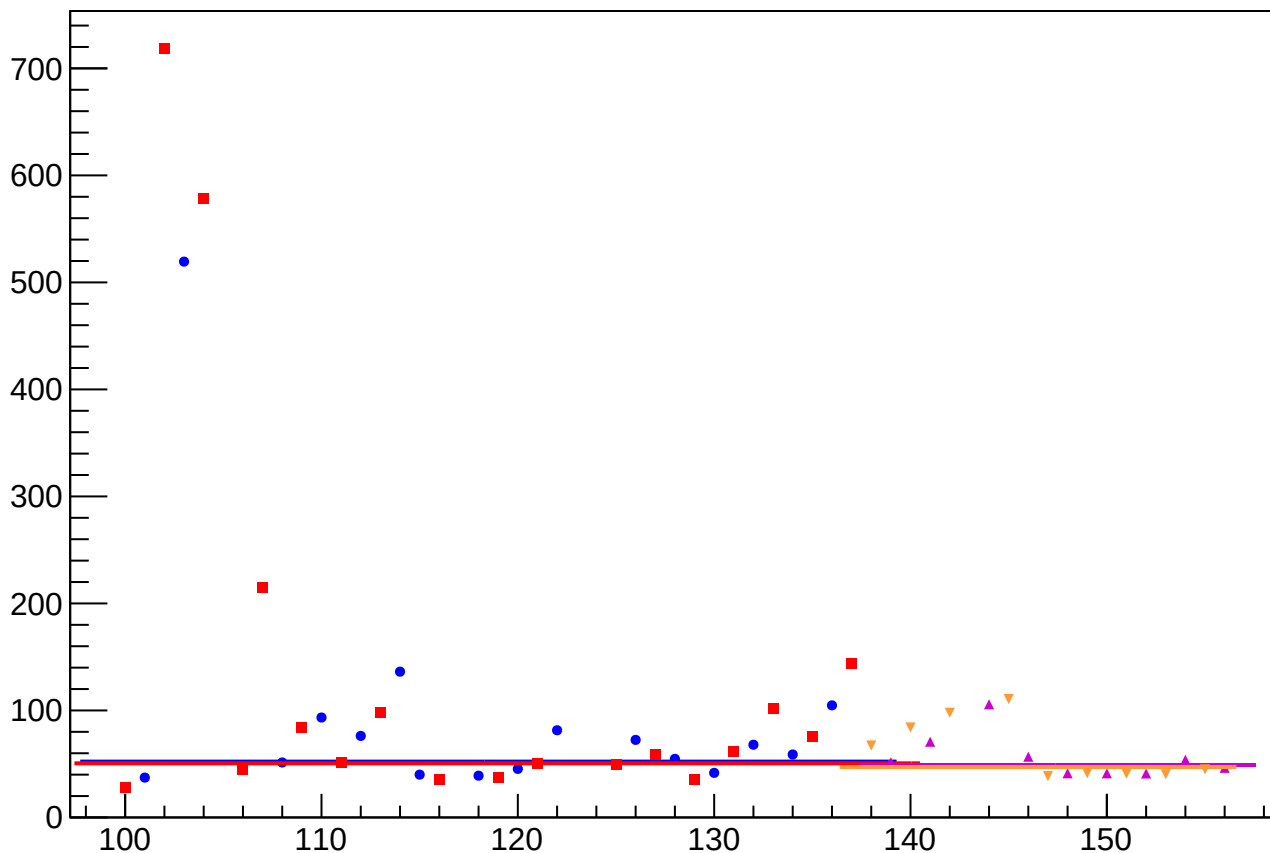
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.016 ± 0.015 $\chi^2/\text{NDF}: 28.1/24$

Out: -0.003 ± 0.015 $\chi^2/\text{NDF}: 27.5/26$

All: -0.010 ± 0.011 $\chi^2/\text{NDF}: 56.1/51$

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: 47.089+/-0.014 χ^2/NDF : 1319575.4/8

Right Out: 50.582+/-0.017 χ^2/NDF : 3051364.2/17

Left In: 49.016+/-0.014 χ^2/NDF : 860496.3/8

Left: 48.087+/-0.010 χ^2/NDF : 2189830.8/17

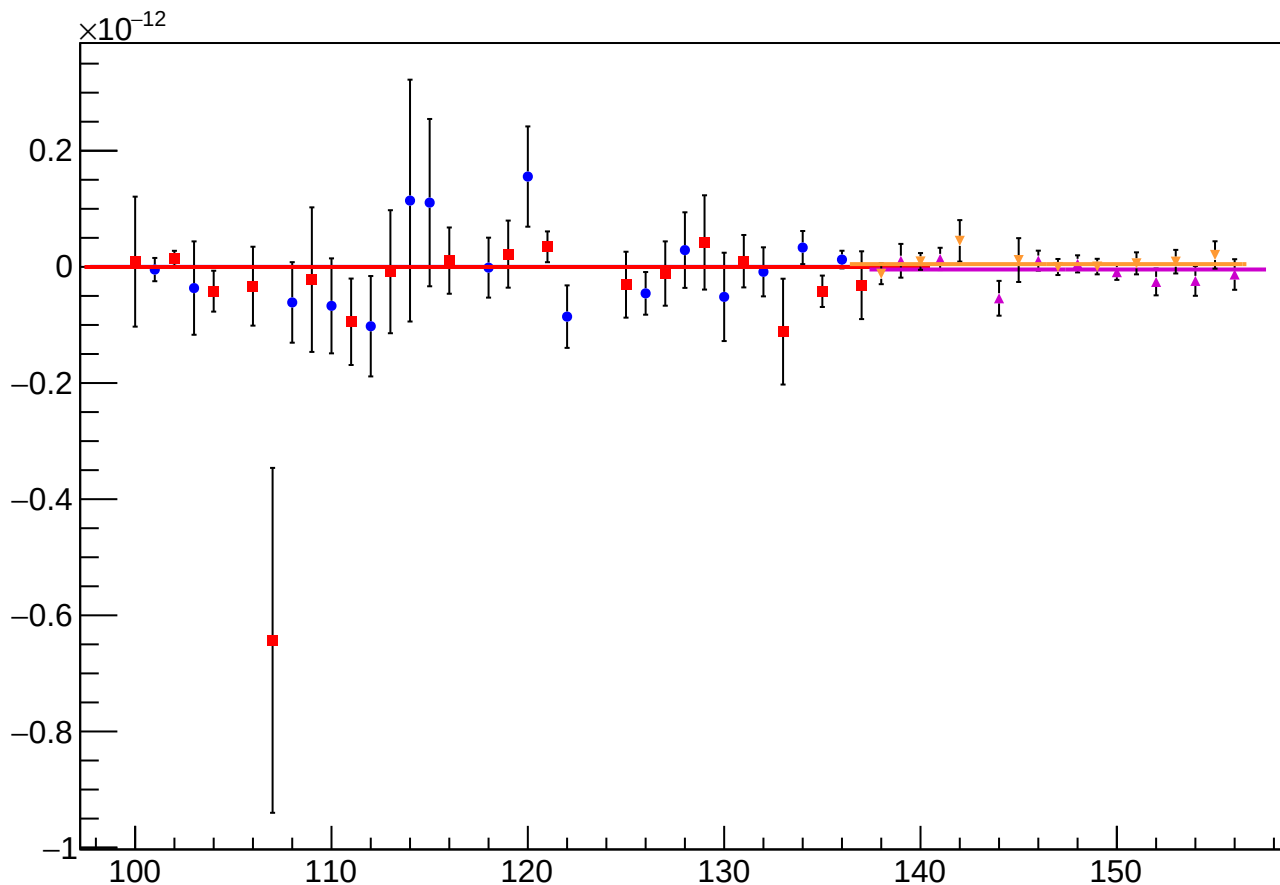
Right: 51.419+/-0.012 χ^2/NDF : 5323126.6/33

In: 50.340+/-0.010 χ^2/NDF : 3150328.6/24

Out: 48.537+/-0.011 χ^2/NDF : 4396594.8/26

All: 49.473+/-0.007 χ^2/NDF : 7561557.9/51

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 : 3.0/8

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 6.8/8

Left: 0.000+/-0.000 χ^2/NDF : 10.8/17

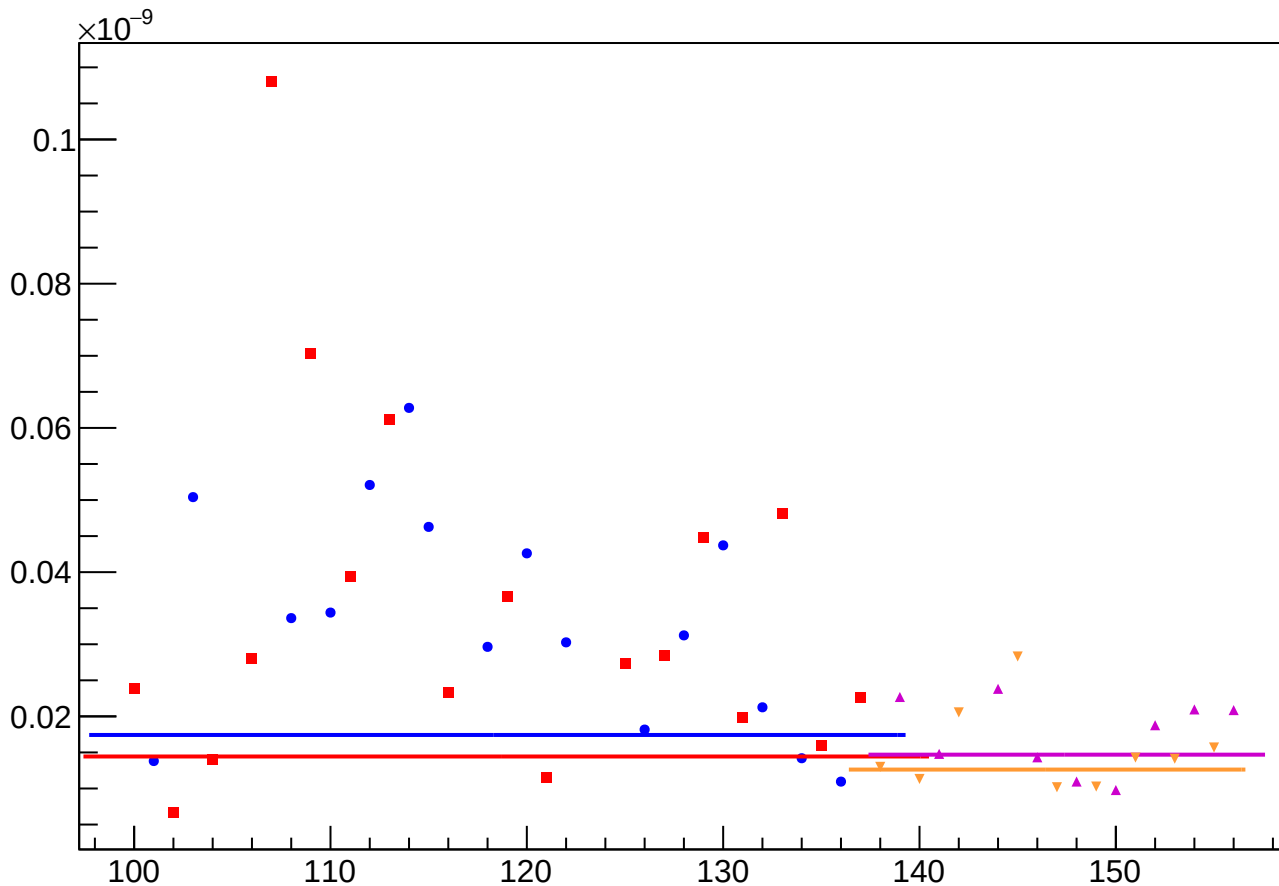
Right: -0.000+/-0.000 χ^2/NDF : 30.1/33

In: -0.000+/-0.000 χ^2/NDF : 21.0/24

Out: 0.000+/-0.000 χ^2/NDF : 19.2/26

All: 0.000+/-0.000 χ^2/NDF : 40.9/51

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 : 646166.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 3261103.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 1029469.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1783291.2/17

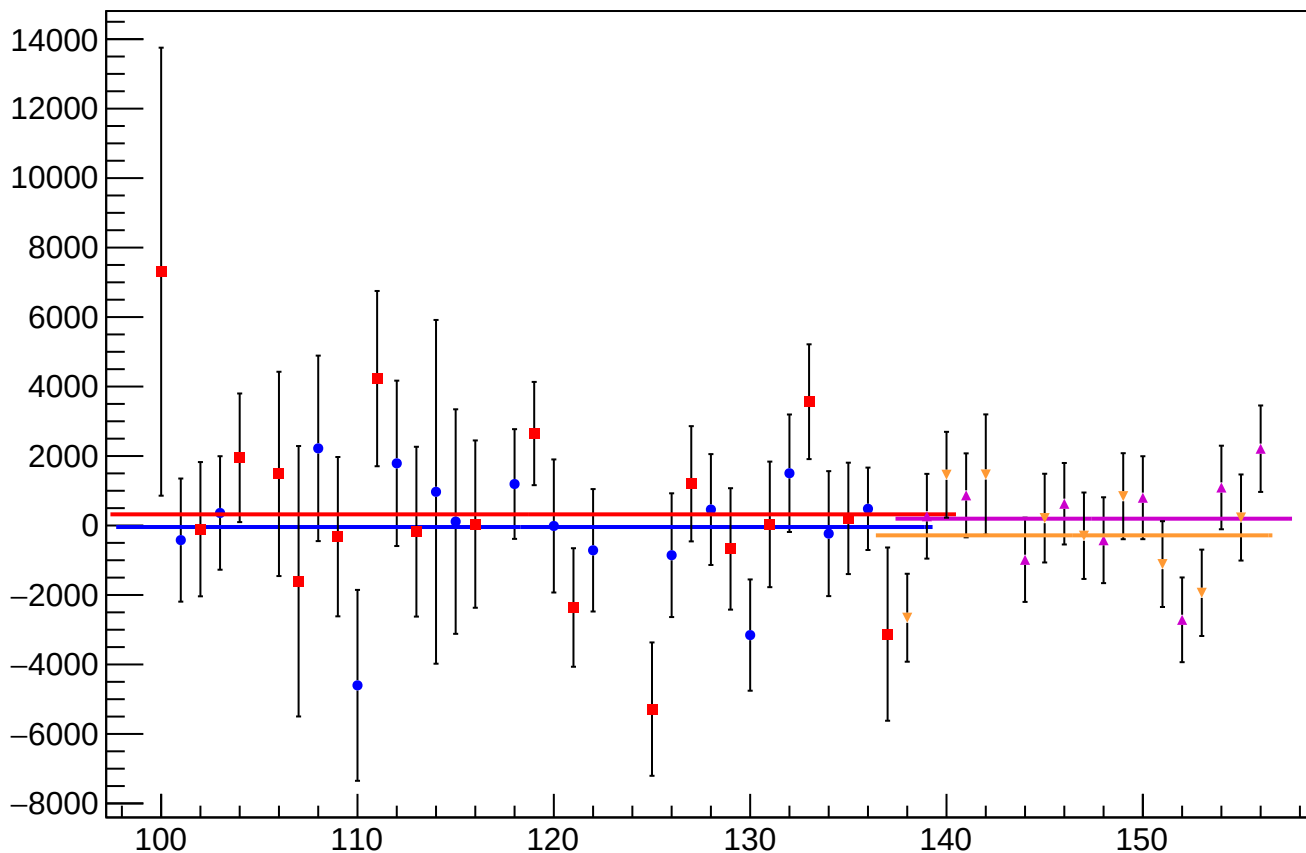
Right: 0.000+/-0.000 χ^2/NDF : 5591516.4/33

In: 0.000+/-0.000 χ^2/NDF : 3368156.9/24

Out: 0.000+/-0.000 χ^2/NDF : 3963569.3/26

All: 0.000+/-0.000 χ^2/NDF : 7542811.2/51

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: -283.380 ± 427.209 $\chi^2/\text{NDF}: 9.9/8$

Right Out: 321.266 ± 474.939 $\chi^2/\text{NDF}: 24.8/17$

Left In: 196.062 ± 403.891 $\chi^2/\text{NDF}: 10.8/8$

Left: -30.218 ± 293.492 $\chi^2/\text{NDF}: 21.3/17$

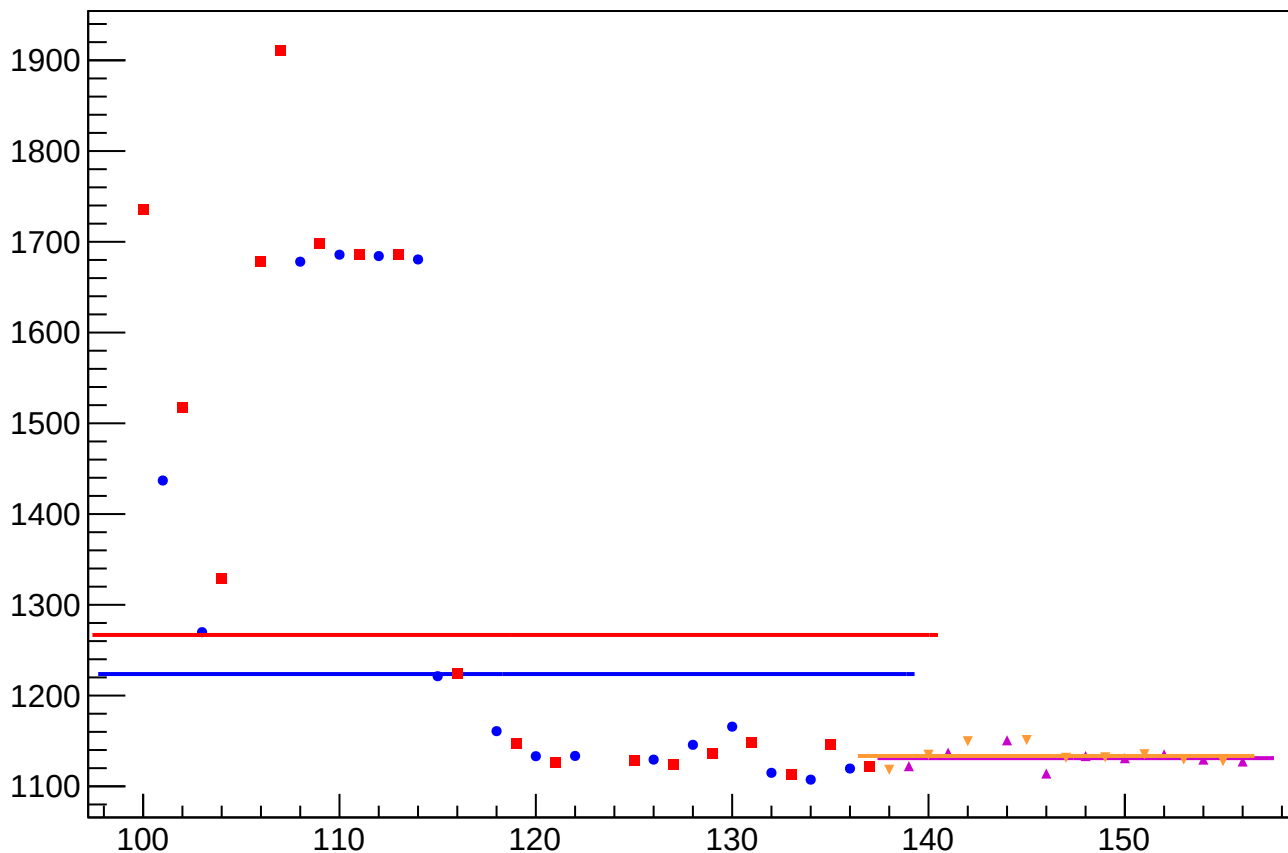
Right: 132.654 ± 330.136 $\chi^2/\text{NDF}: 35.2/33$

In: 91.497 ± 303.280 $\chi^2/\text{NDF}: 21.0/24$

Out: -12.958 ± 317.621 $\chi^2/\text{NDF}: 35.6/26$

All: 41.681 ± 219.346 $\chi^2/\text{NDF}: 56.7/51$

reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705 $\pm$ 0.325 χ^2 /NDF: 294966.1/15

Left Out: 1133.459 $\pm$ 0.302 χ^2 /NDF: 923.1/8

Right Out: 1266.780 $\pm$ 0.336 χ^2 /NDF: 432845.4/17

Left In: 1131.043 $\pm$ 0.286 χ^2 /NDF: 1149.5/8

Left: 1132.183 $\pm$ 0.208 χ^2 /NDF: 2106.4/17

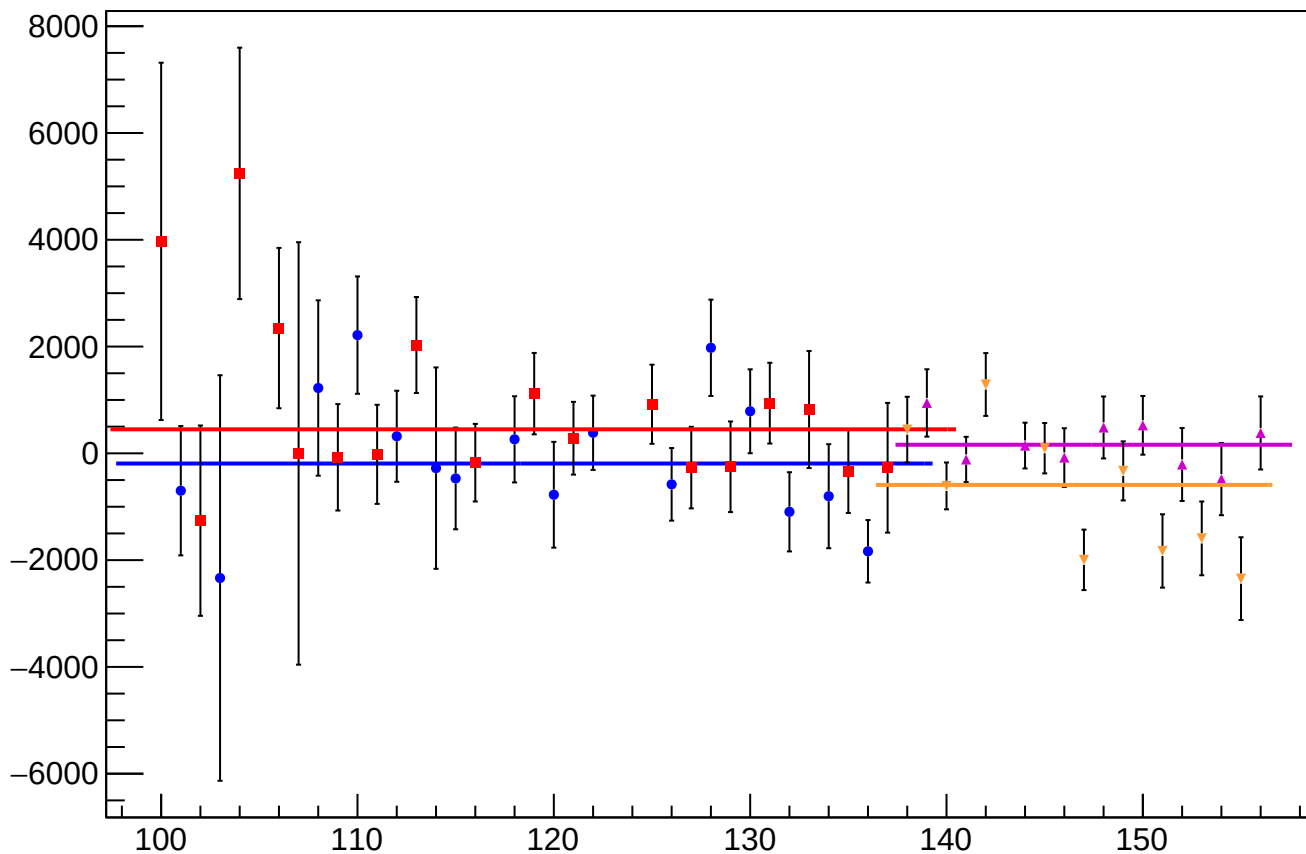
Right: 1244.518 $\pm$ 0.233 χ^2 /NDF: 736313.8/33

In: 1171.458 $\pm$ 0.214 χ^2 /NDF: 342030.0/24

Out: 1193.086 $\pm$ 0.225 χ^2 /NDF: 520881.7/26

All: 1181.773 $\pm$ 0.155 χ^2 /NDF: 867762.3/51

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: -591.159 ± 190.735 χ^2/NDF : 32.0/8

Right Out: 449.847 ± 223.203 χ^2/NDF : 16.8/17

Left In: 160.879 ± 183.837 χ^2/NDF : 4.2/8

Left: -201.294 ± 132.364 χ^2/NDF : 44.3/17

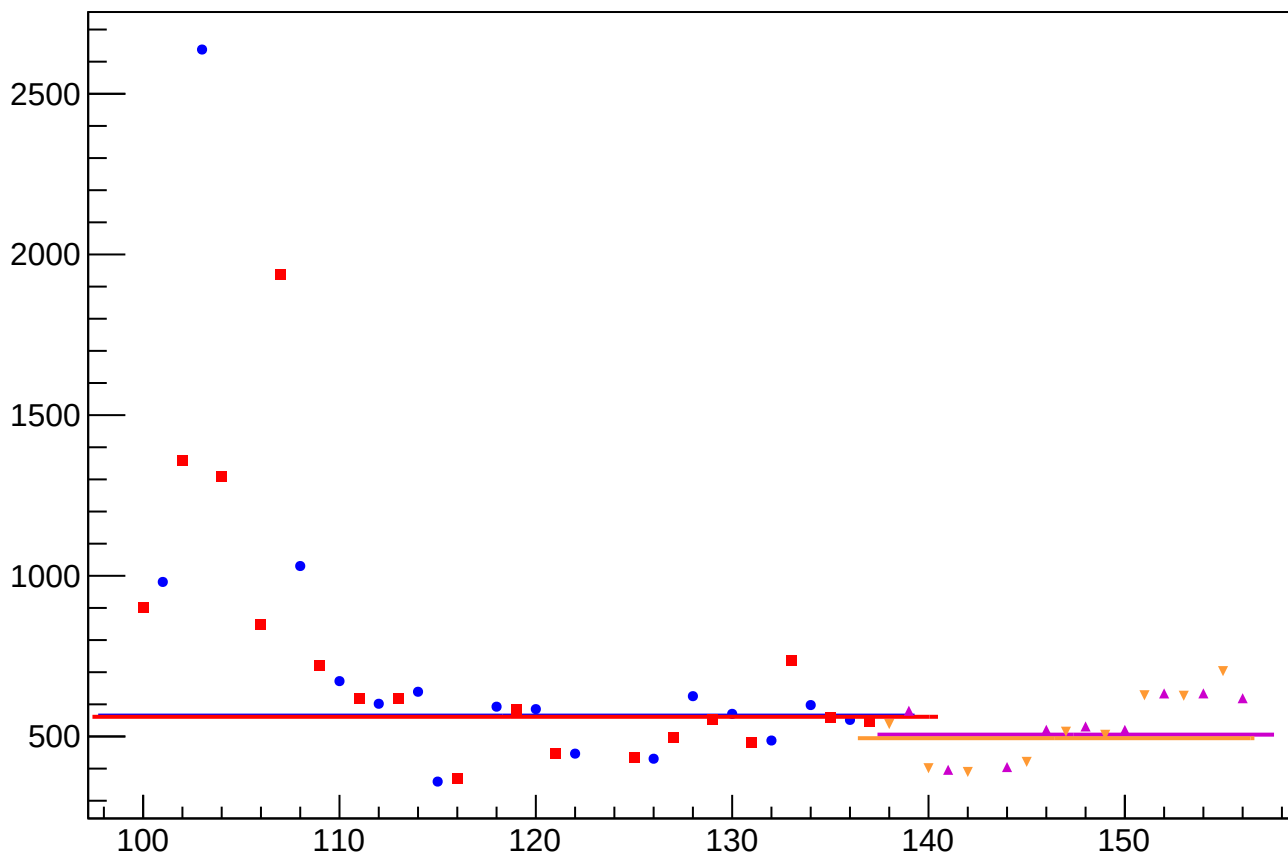
Right: 129.127 ± 157.710 χ^2/NDF : 46.2/33

In: 18.550 ± 141.816 χ^2/NDF : 30.9/24

Out: -151.808 ± 145.004 χ^2/NDF : 61.4/26

All: -64.736 ± 101.387 χ^2/NDF : 93.0/51

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: 494.627+/-0.135 χ^2/NDF : 510371.8/8

Right Out: 561.243+/-0.158 χ^2/NDF : 1352239.3/17

Left In: 505.690+/-0.130 χ^2/NDF : 476280.0/8

Left: 500.362+/-0.094 χ^2/NDF : 990139.7/17

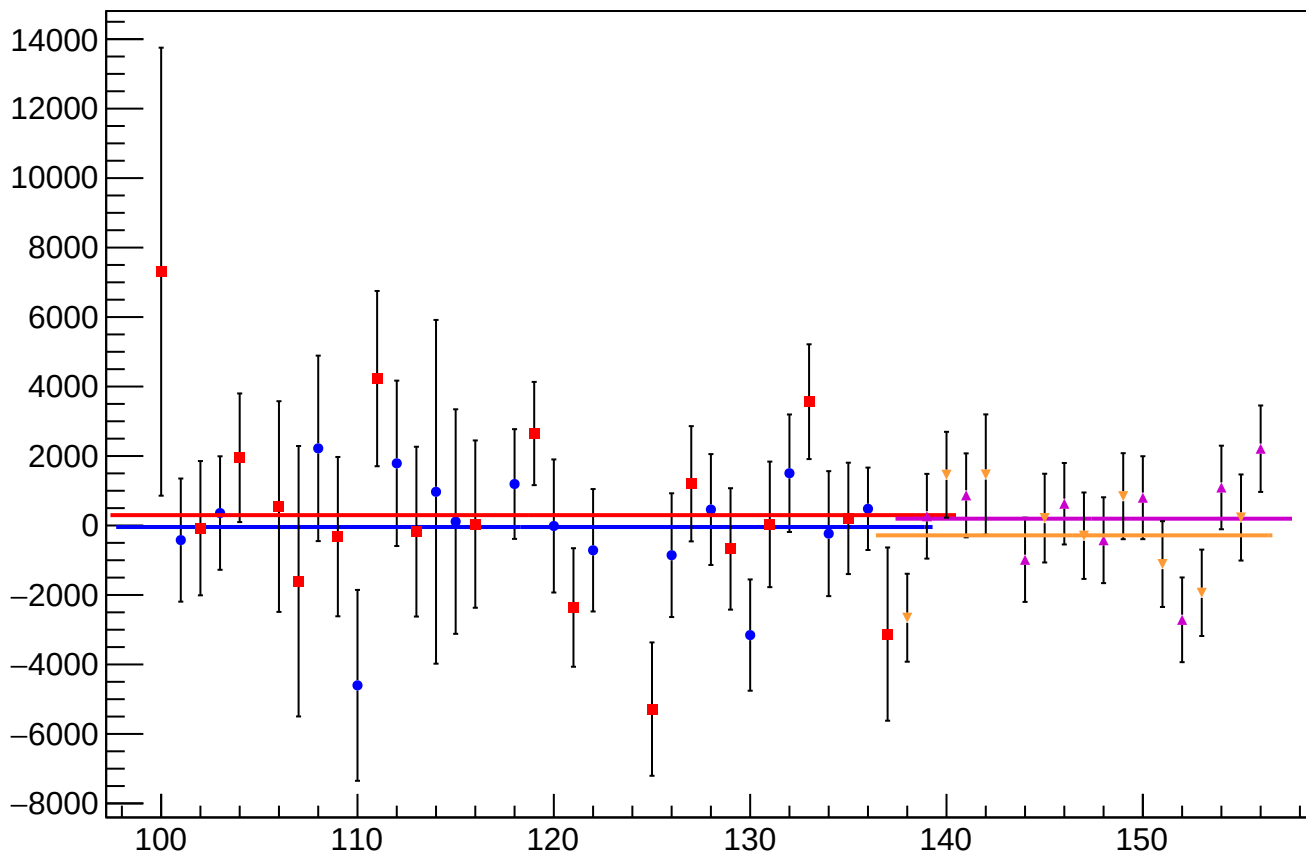
Right: 563.104+/-0.112 χ^2/NDF : 2636995.6/33

In: 529.688+/-0.100 χ^2/NDF : 1844931.9/24

Out: 522.742+/-0.103 χ^2/NDF : 1965575.6/26

All: 526.292+/-0.072 χ^2/NDF : 3812853.0/51

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: -283.300 ± 427.209 $\chi^2/\text{NDF}: 9.9/8$

Right Out: 298.207 ± 475.315 $\chi^2/\text{NDF}: 24.6/17$

Left In: 195.999 ± 403.891 $\chi^2/\text{NDF}: 10.8/8$

Left: -30.214 ± 293.492 $\chi^2/\text{NDF}: 21.3/17$

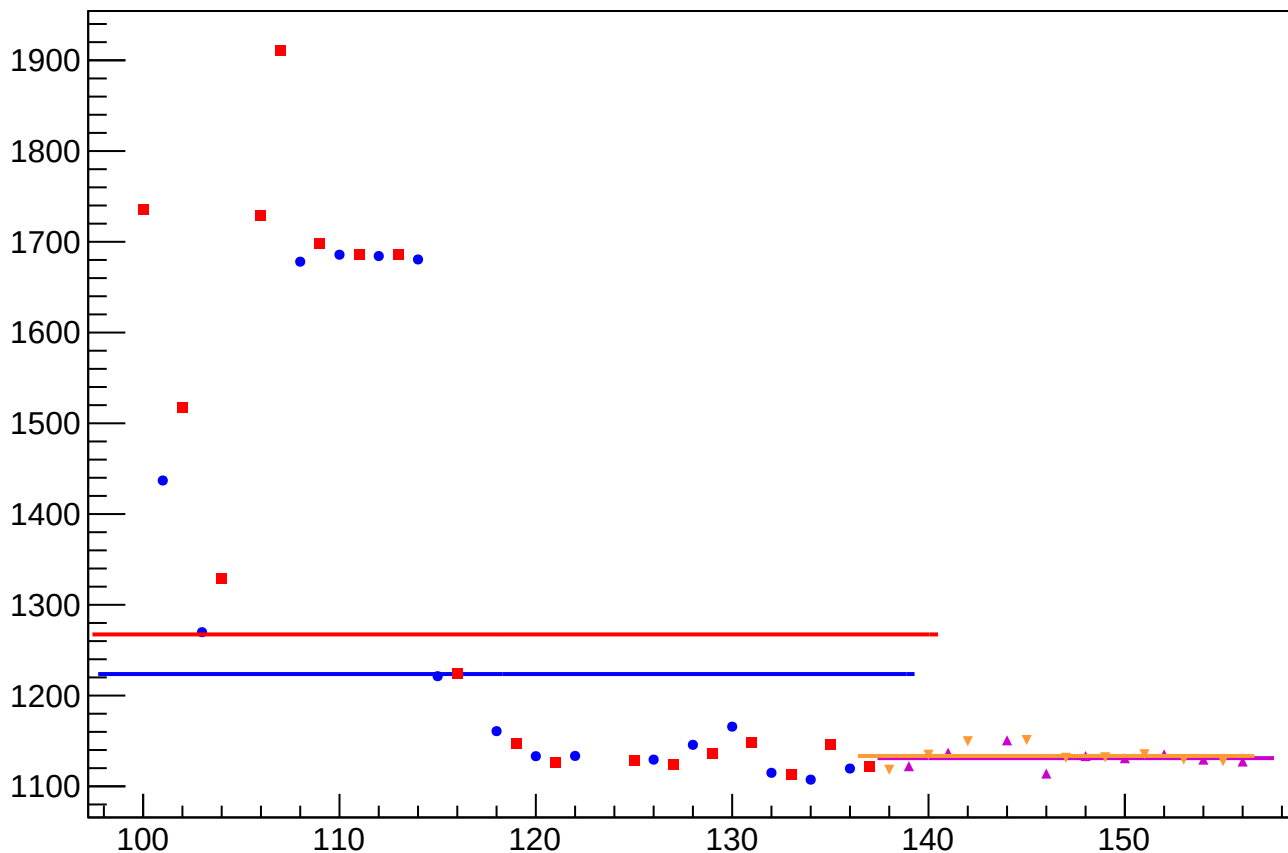
Right: 121.252 ± 330.262 $\chi^2/\text{NDF}: 35.0/33$

In: 91.356 ± 303.280 $\chi^2/\text{NDF}: 21.0/24$

Out: -23.454 ± 317.733 $\chi^2/\text{NDF}: 35.3/26$

All: 36.622 ± 219.383 $\chi^2/\text{NDF}: 56.4/51$

cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705 $\pm$ 0.325 χ^2 /NDF: 294966.1/15

Left Out: 1133.459 $\pm$ 0.302 χ^2 /NDF: 923.1/8

Right Out: 1267.363 $\pm$ 0.336 χ^2 /NDF: 439982.4/17

Left In: 1131.043 $\pm$ 0.286 χ^2 /NDF: 1149.5/8

Left: 1132.183 $\pm$ 0.208 χ^2 /NDF: 2106.4/17

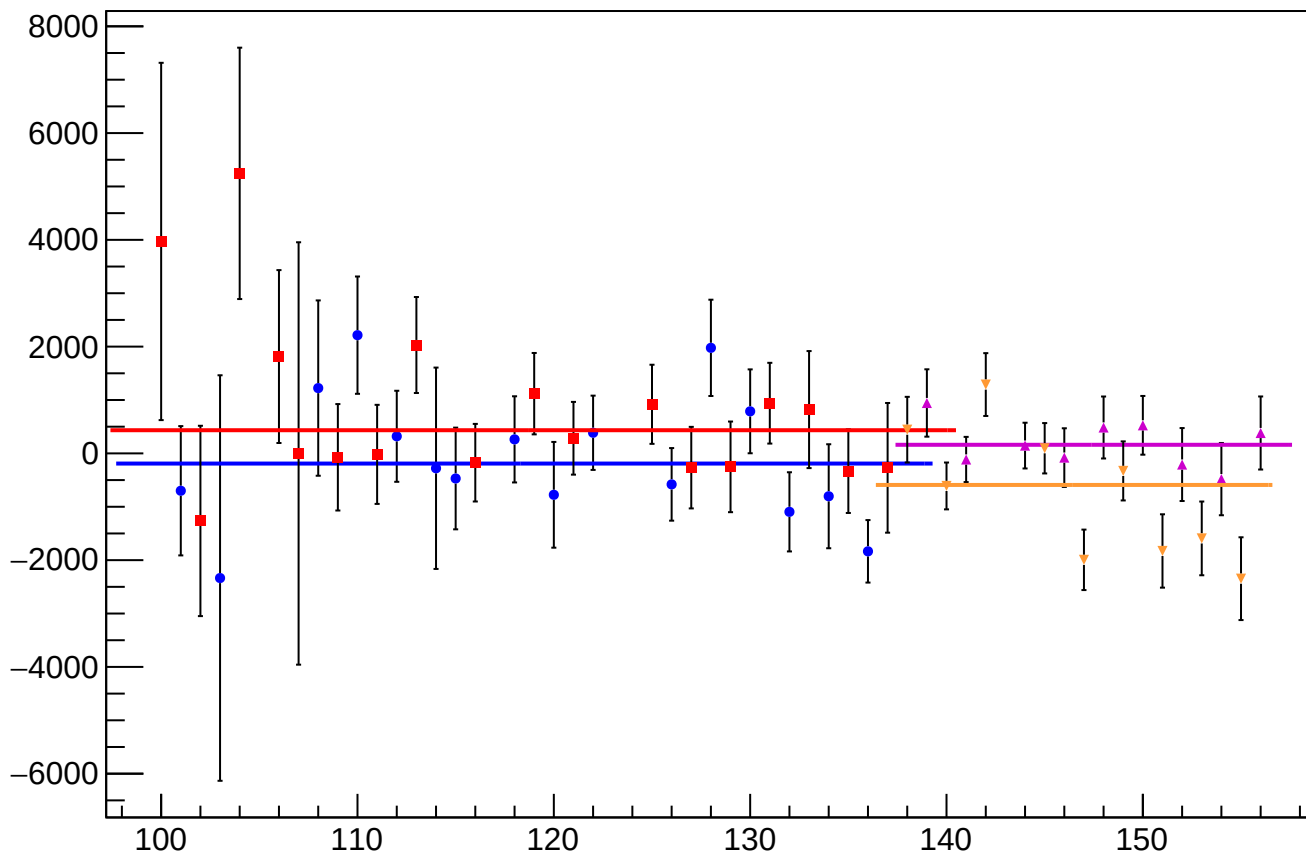
Right: 1244.783 $\pm$ 0.234 χ^2 /NDF: 743675.6/33

In: 1171.458 $\pm$ 0.214 χ^2 /NDF: 342030.1/24

Out: 1193.294 $\pm$ 0.225 χ^2 /NDF: 528706.0/26

All: 1181.868 $\pm$ 0.155 χ^2 /NDF: 875678.8/51

asym_usl_atl1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -190.645 $\pm$ 222.867 χ^2 /NDF: 25.3/15

Left Out: -591.148 $\pm$ 190.735 χ^2 /NDF:32.0/8

Right Out: 433.877 $\pm$ 223.547 χ^2 /NDF: 15.9/17

Left In: 160.873 $\pm$ 183.837 χ^2 /NDF:4.2/8

Left: -201.293 $\pm$ 132.364 χ^2 /NDF: 44.3/17

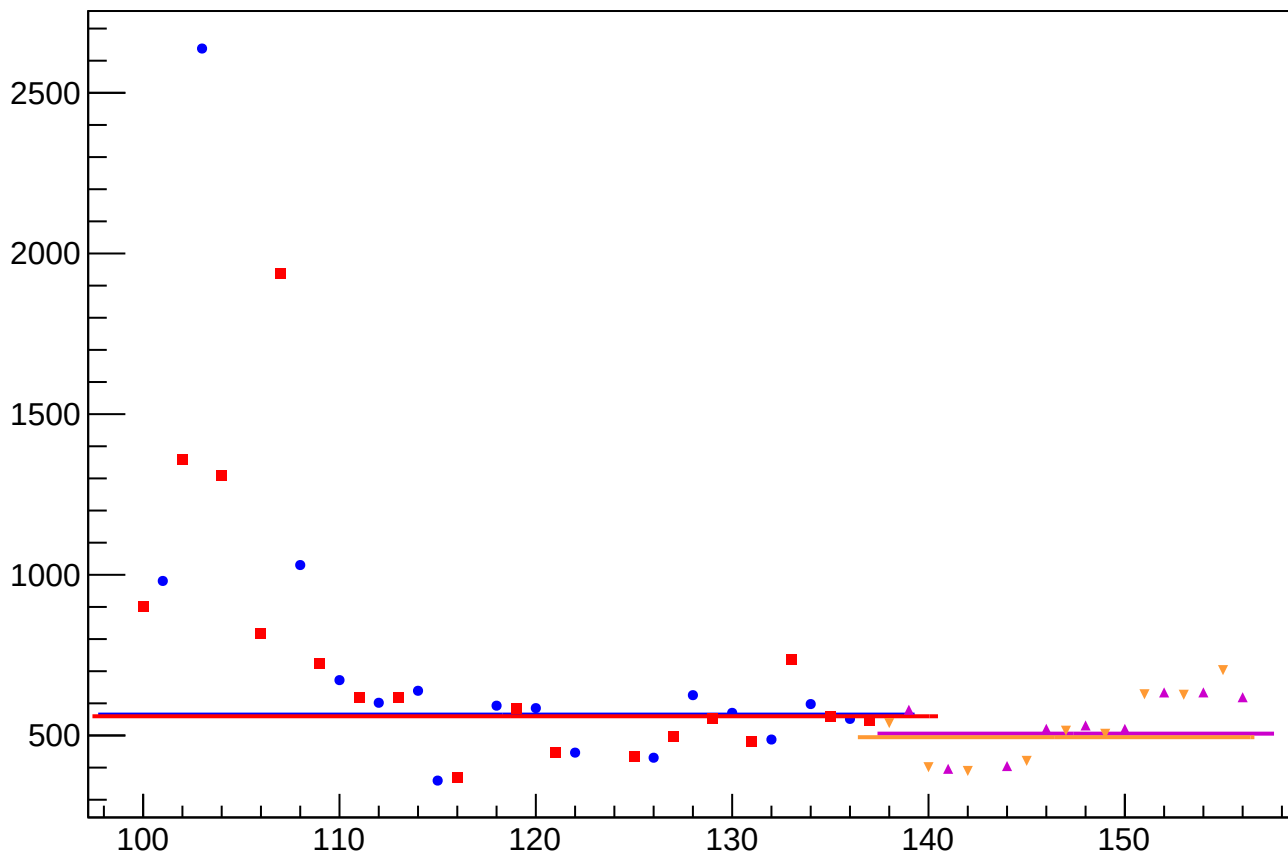
Right: 120.665 $\pm$ 157.831 χ^2 /NDF: 45.1/33

In: 18.541 $\pm$ 141.816 χ^2 /NDF:30.9/24

Out: -159.315 $\pm$ 145.097 χ^2 /NDF:60.1/26

All: -68.353 $\pm$ 101.419 χ^2 /NDF: 91.8/51

asym_usl_atl1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 564.954 $\pm$ 0.158 χ^2 /NDF: 1284455.7/15

Left Out: 494.625 $\pm$ 0.135 χ^2 /NDF: 510349.5/8

Right Out: 559.758 $\pm$ 0.158 χ^2 /NDF: 1329357.2/17

Left In: 505.690 $\pm$ 0.130 χ^2 /NDF: 476241.8/8

Left: 500.361 $\pm$ 0.094 χ^2 /NDF: 990080.7/17

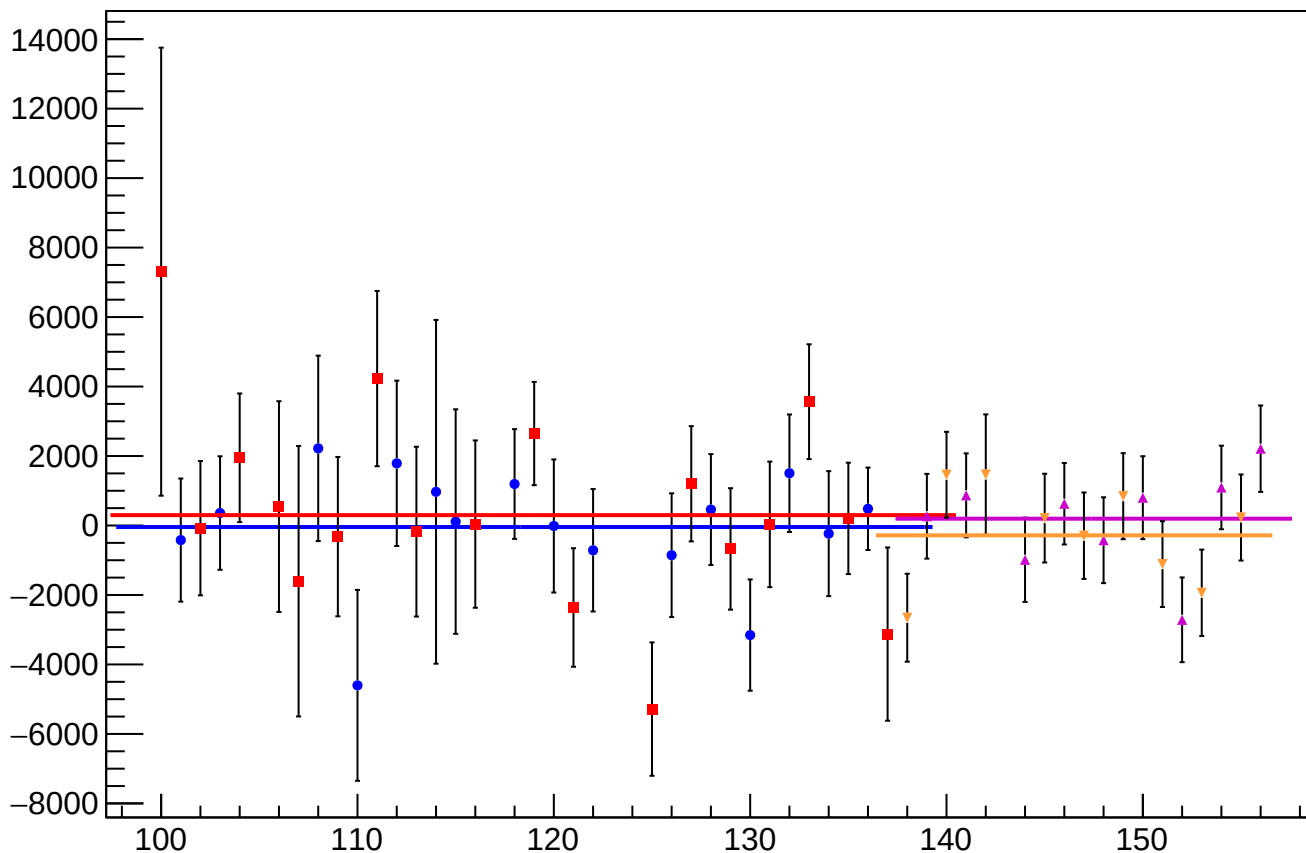
Right: 562.364 $\pm$ 0.112 χ^2 /NDF: 2614354.9/33

In: 529.687 $\pm$ 0.100 χ^2 /NDF: 1844857.6/24

Out: 522.065 $\pm$ 0.103 χ^2 /NDF: 1937960.8/26

All: 525.963 $\pm$ 0.072 χ^2 /NDF: 3785640.8/51

eigen_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: -283.300 ± 427.209 $\chi^2/\text{NDF}: 9.9/8$

Right Out: 298.207 ± 475.315 $\chi^2/\text{NDF}: 24.6/17$

Left In: 195.999 ± 403.891 $\chi^2/\text{NDF}: 10.8/8$

Left: -30.214 ± 293.492 $\chi^2/\text{NDF}: 21.3/17$

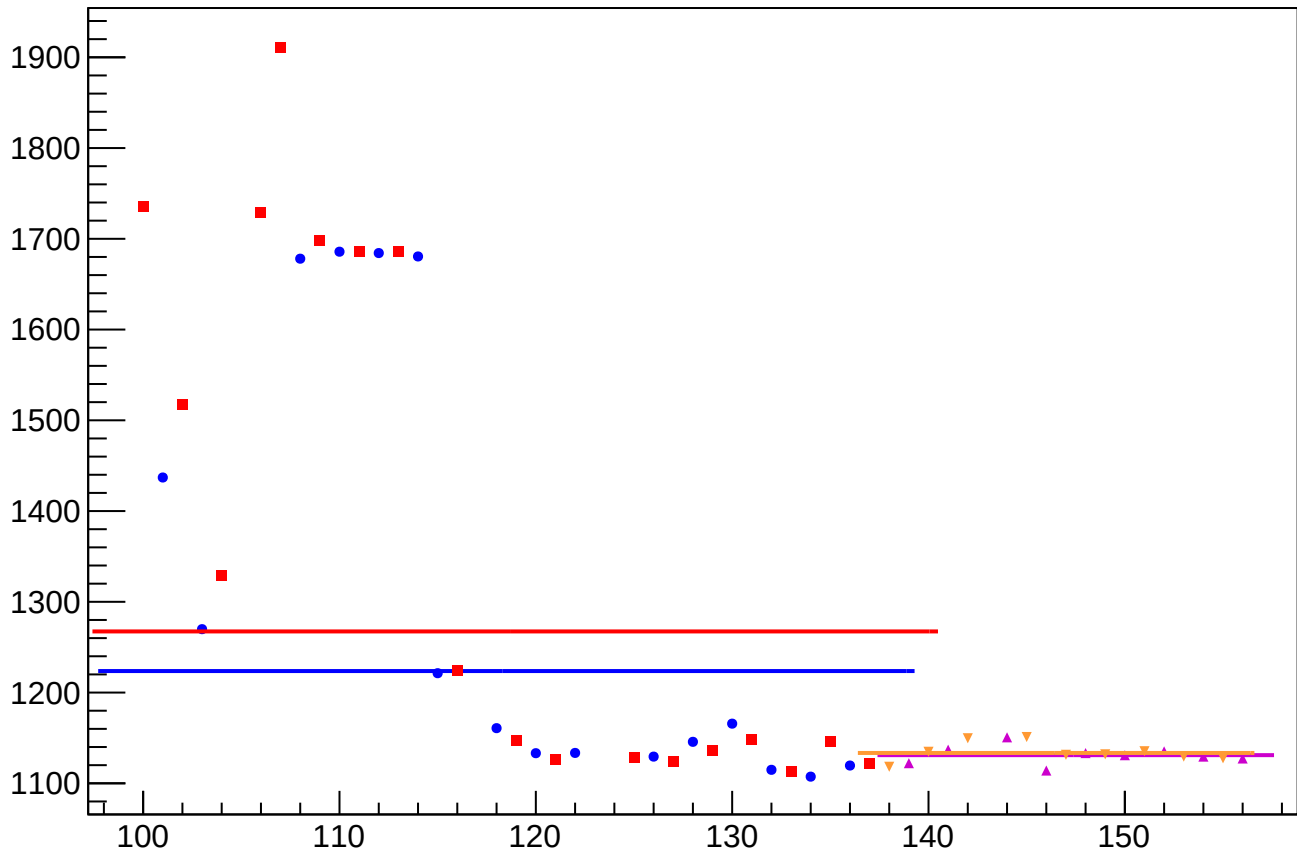
Right: 121.252 ± 330.262 $\chi^2/\text{NDF}: 35.0/33$

In: 91.356 ± 303.280 $\chi^2/\text{NDF}: 21.0/24$

Out: -23.454 ± 317.733 $\chi^2/\text{NDF}: 35.3/26$

All: 36.622 ± 219.383 $\chi^2/\text{NDF}: 56.4/51$

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: 1133.459+/-0.302 χ^2/NDF : 923.1/8

Right Out: 1267.363+/-0.336 χ^2/NDF : 439982.4/17

Left In: 1131.043+/-0.286 χ^2/NDF : 1149.5/8

Left: 1132.183+/-0.208 χ^2/NDF : 2106.4/17

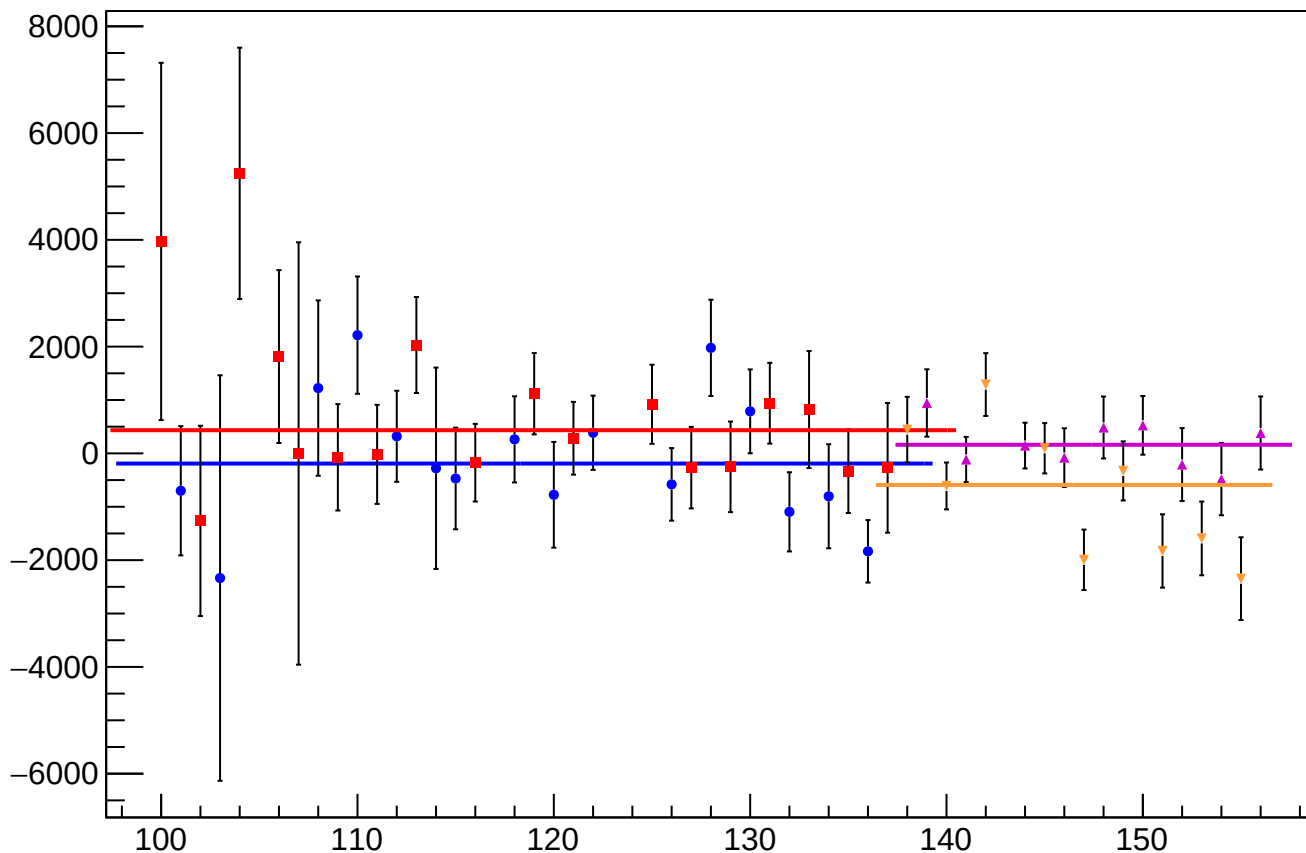
Right: 1244.783+/-0.234 χ^2/NDF : 743675.6/33

In: 1171.458+/-0.214 χ^2/NDF : 342030.1/24

Out: 1193.294+/-0.225 χ^2/NDF : 528706.0/26

All: 1181.868+/-0.155 χ^2/NDF : 875678.8/51

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: -591.148+/-190.735 χ^2/NDF :32.0/8

Right Out: 433.877+/-223.547 χ^2/NDF : 15.9/17

Left In: 160.873+/-183.837 χ^2/NDF :4.2/8

Left: -201.293+/-132.364 χ^2/NDF : 44.3/17

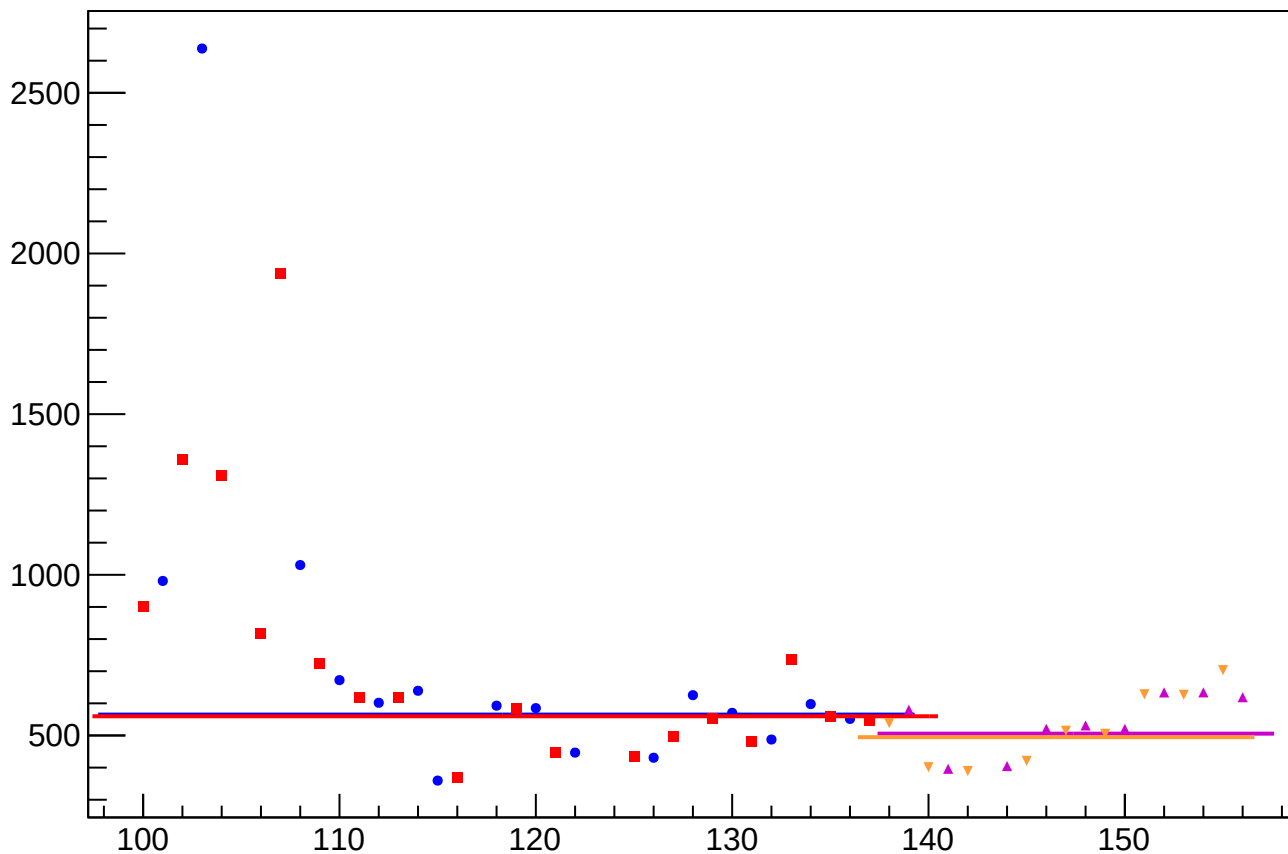
Right: 120.665+/-157.831 χ^2/NDF : 45.1/33

In: 18.541+/-141.816 χ^2/NDF :30.9/24

Out: -159.315+/-145.097 χ^2/NDF :60.1/26

All: -68.353+/-101.419 χ^2/NDF : 91.8/51

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: 494.625 $\pm$ 0.135 χ^2 /NDF: 510349.5/8

Right Out: 559.758 $\pm$ 0.158 χ^2 /NDF: 1329357.2/17

Left In: 505.690 $\pm$ 0.130 χ^2 /NDF: 476241.8/8

Left: 500.361 $\pm$ 0.094 χ^2 /NDF: 990080.7/17

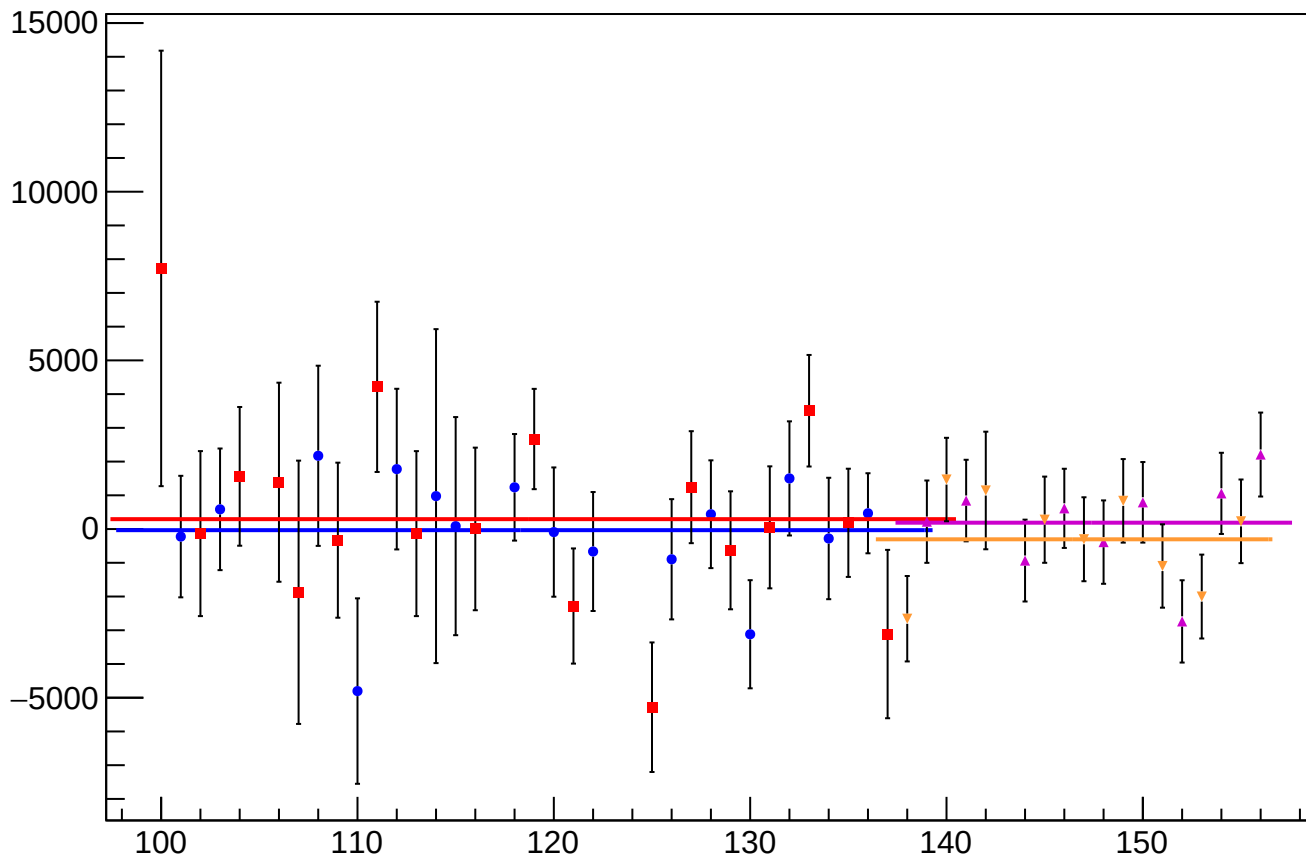
Right: 562.364 $\pm$ 0.112 χ^2 /NDF: 2614354.9/33

In: 529.687 $\pm$ 0.100 χ^2 /NDF: 1844857.6/24

Out: 522.065 $\pm$ 0.103 χ^2 /NDF: 1937960.8/26

All: 525.963 $\pm$ 0.072 χ^2 /NDF: 3785640.8/51

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: -304.180 ± 427.547 $\chi^2/\text{NDF}: 9.7/8$

Right Out: 293.384 ± 483.838 $\chi^2/\text{NDF}: 24.2/17$

Left In: 188.449 ± 404.044 $\chi^2/\text{NDF}: 10.7/8$

Left: -43.954 ± 293.660 $\chi^2/\text{NDF}: 21.1/17$

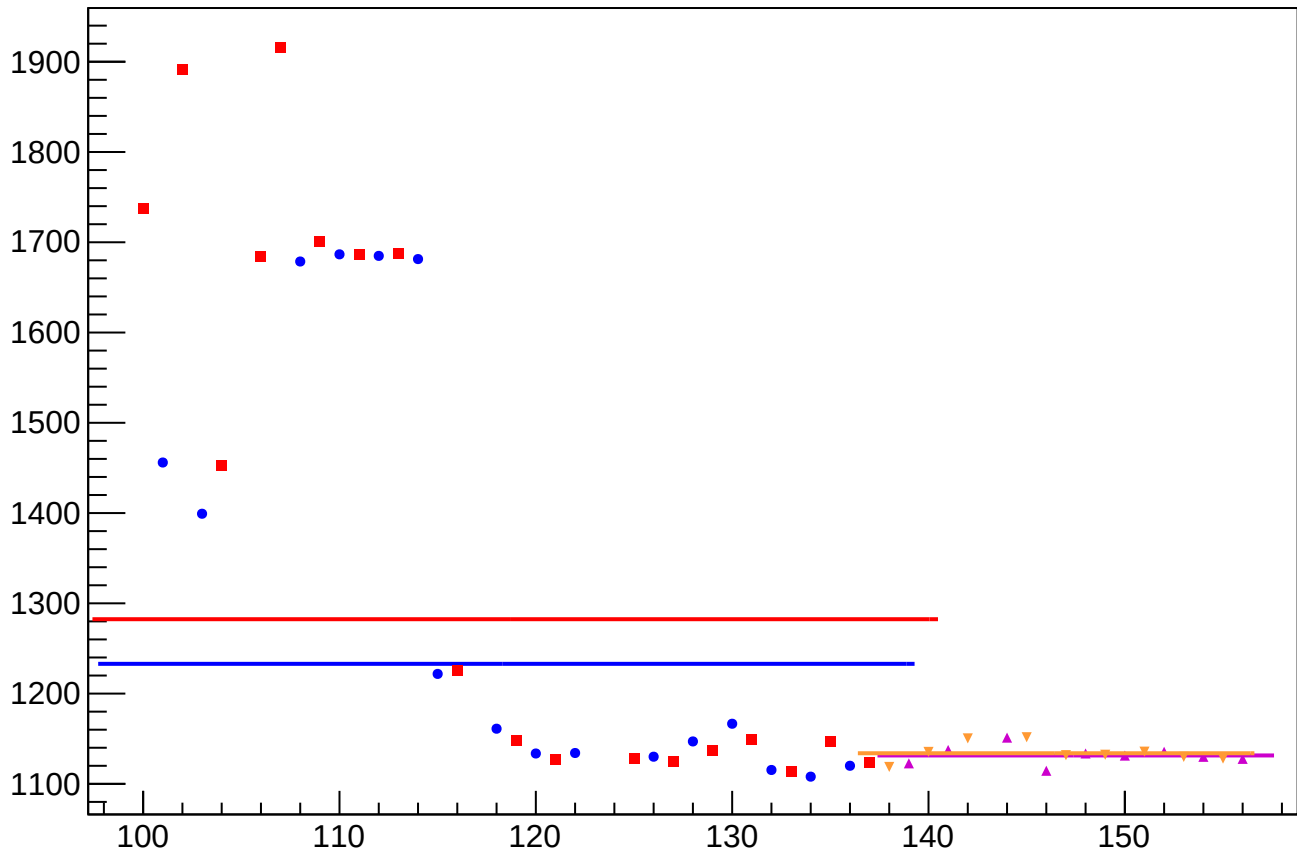
Right: 123.056 ± 334.596 $\chi^2/\text{NDF}: 34.7/33$

In: 92.736 ± 304.488 $\chi^2/\text{NDF}: 21.1/24$

Out: -42.165 ± 320.384 $\chi^2/\text{NDF}: 34.8/26$

All: 28.715 ± 220.711 $\chi^2/\text{NDF}: 56.0/51$

dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1232.965 $\pm$ 0.328 χ^2/NDF : 315470.6/15

Left Out: 1133.909 $\pm$ 0.302 χ^2/NDF : 933.6/8

Right Out: 1282.407 $\pm$ 0.342 χ^2/NDF : 543403.8/17

Left In: 1131.471 $\pm$ 0.286 χ^2/NDF : 1150.8/8

Left: 1132.621 $\pm$ 0.208 χ^2/NDF : 2118.7/17

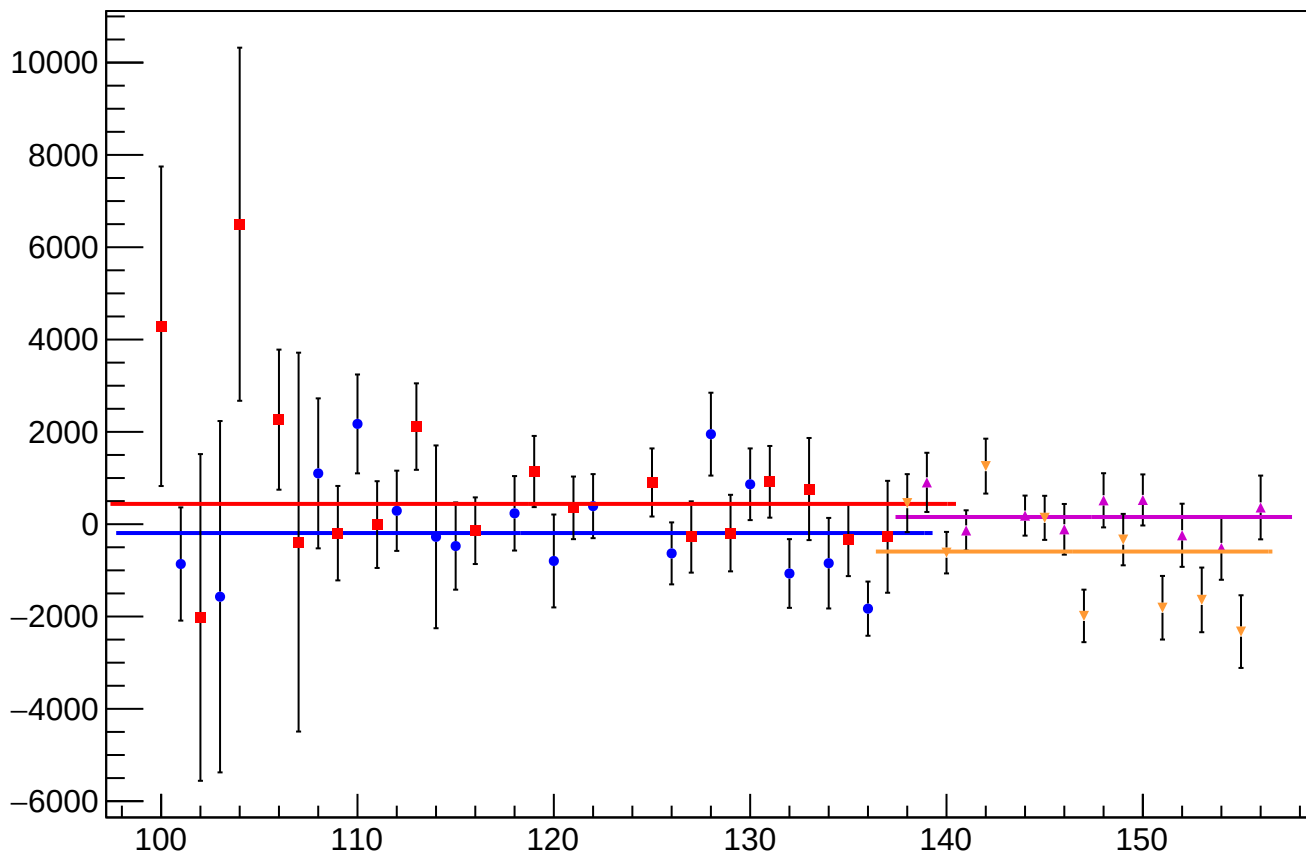
Right: 1256.610 $\pm$ 0.237 χ^2/NDF : 869771.1/33

In: 1175.325 $\pm$ 0.215 χ^2/NDF : 371150.3/24

Out: 1199.021 $\pm$ 0.227 χ^2/NDF : 650127.5/26

All: 1186.571 $\pm$ 0.156 χ^2/NDF : 1027026.0/51

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: -592.490 ± 193.286 χ^2/NDF : 31.2/8

Right Out: 439.610 ± 226.600 χ^2/NDF : 14.6/17

Left In: 156.067 ± 186.254 χ^2/NDF : 4.2/8

Left: -204.348 ± 134.119 χ^2/NDF : 43.3/17

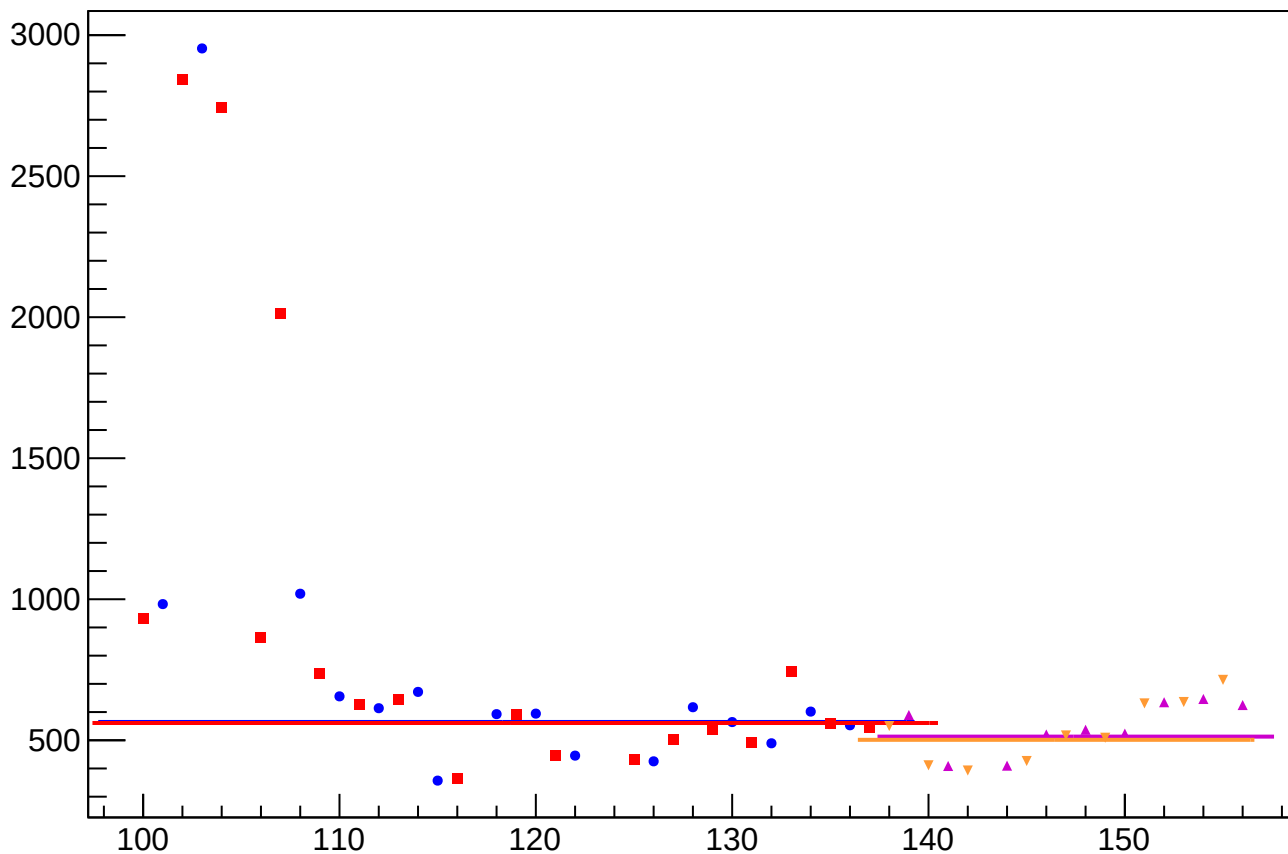
Right: 118.653 ± 158.857 χ^2/NDF : 43.9/33

In: 13.051 ± 142.889 χ^2/NDF : 31.0/24

Out: -157.817 ± 147.055 χ^2/NDF : 57.9/26

All: -69.928 ± 102.479 χ^2/NDF : 89.6/51

asym_usl_atl1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 564.871 $\pm$ 0.158 χ^2 /NDF: 1480375.5/15

Left Out: 501.584 $\pm$ 0.137 χ^2 /NDF: 500387.3/8

Right Out: 561.273 $\pm$ 0.160 χ^2 /NDF: 2273371.7/17

Left In: 512.968 $\pm$ 0.132 χ^2 /NDF: 450646.6/8

Left: 507.487 $\pm$ 0.095 χ^2 /NDF: 954631.5/17

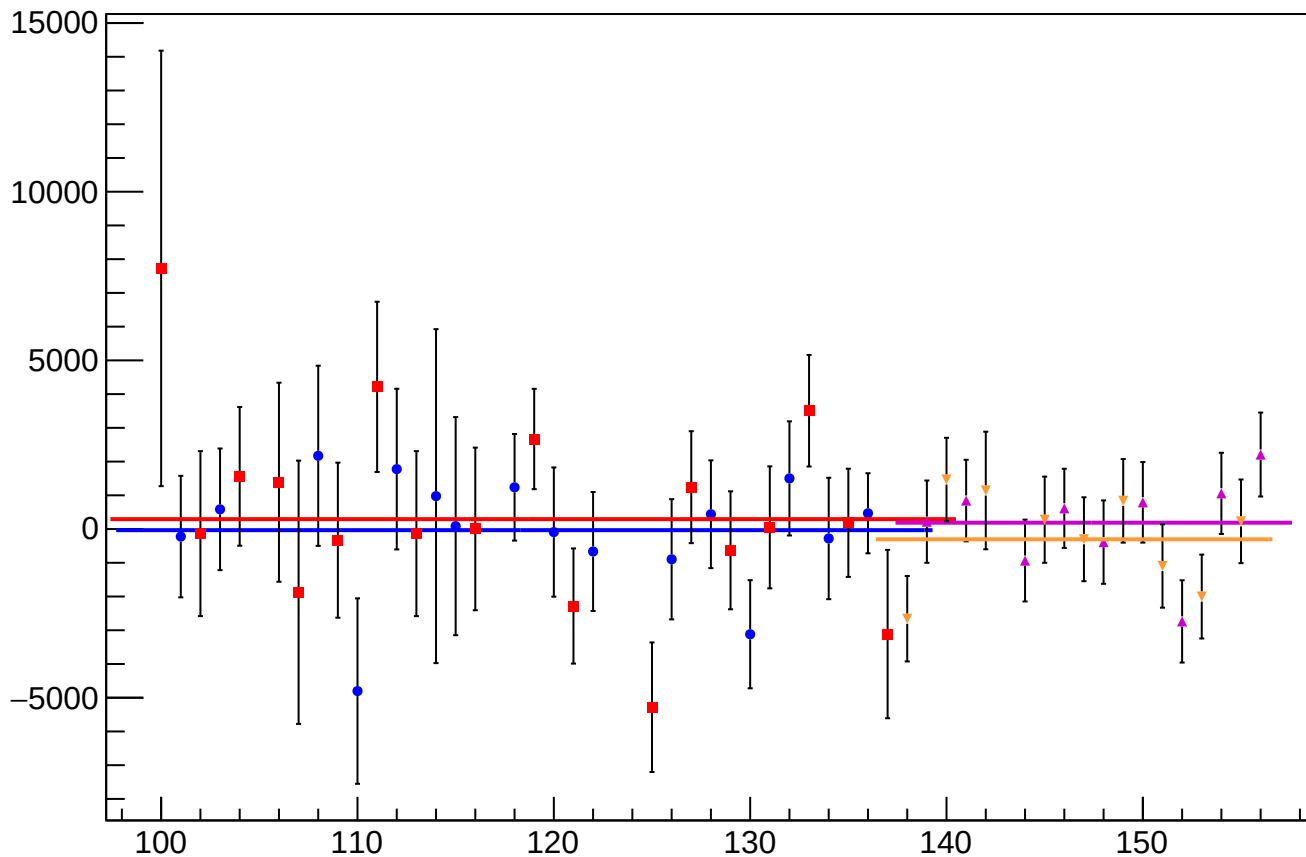
Right: 563.103 $\pm$ 0.112 χ^2 /NDF: 3754003.6/33

In: 534.323 $\pm$ 0.101 χ^2 /NDF: 1994923.6/24

Out: 526.722 $\pm$ 0.104 χ^2 /NDF: 2854087.3/26

All: 530.632 $\pm$ 0.072 χ^2 /NDF: 4851759.4/51

eigen_dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -33.061 ± 463.216 χ^2/NDF : 10.3/15

Left Out: -304.184 ± 427.547 χ^2/NDF : 9.7/8

Right Out: 293.384 ± 483.838 χ^2/NDF : 24.2/17

Left In: 188.450 ± 404.044 χ^2/NDF : 10.7/8

Left: -43.955 ± 293.660 χ^2/NDF : 21.1/17

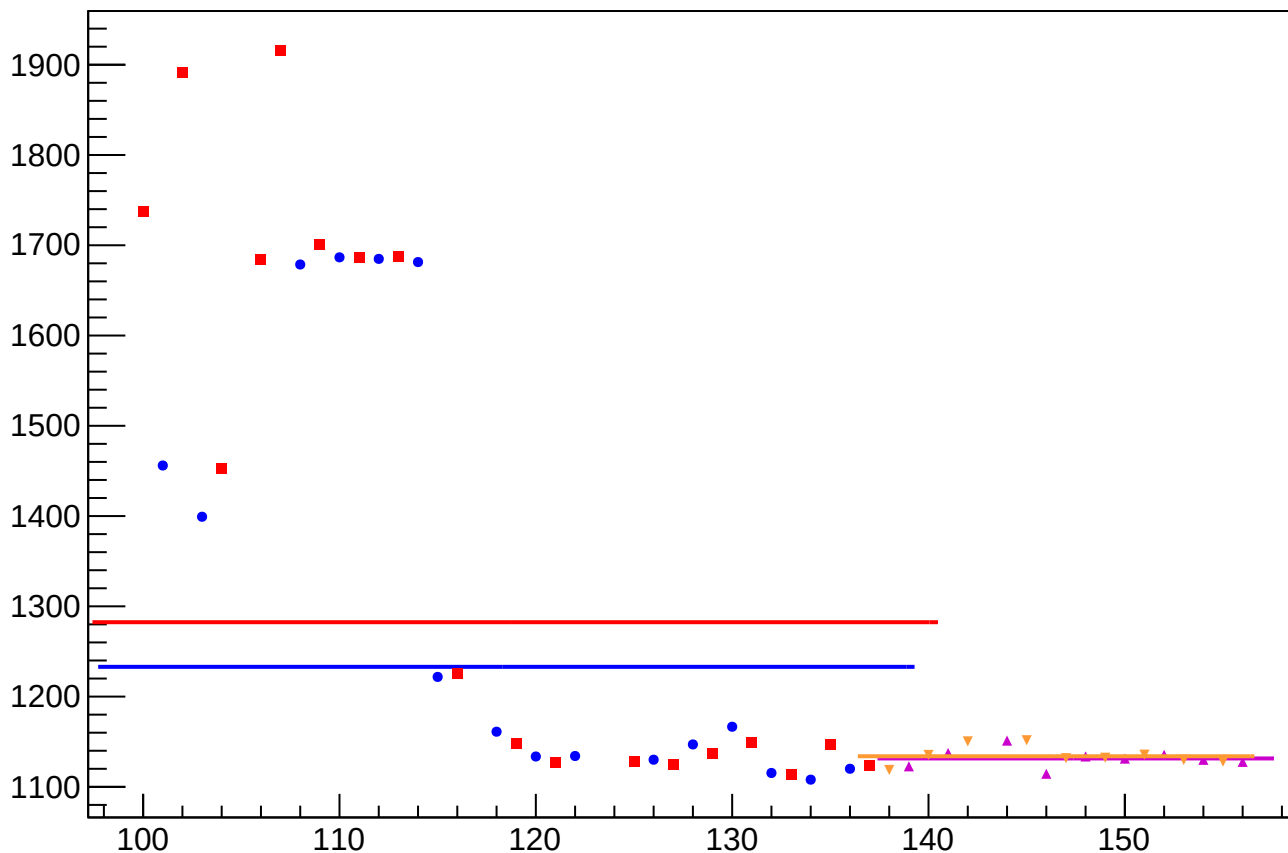
Right: 123.057 ± 334.596 χ^2/NDF : 34.7/33

In: 92.737 ± 304.488 χ^2/NDF : 21.1/24

Out: -42.167 ± 320.383 χ^2/NDF : 34.8/26

All: 28.715 ± 220.711 χ^2/NDF : 56.0/51

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: 1133.909+/-0.302 χ^2/NDF : 933.6/8

Right Out: 1282.407+/-0.342 χ^2/NDF : 543403.2/17

Left In: 1131.471+/-0.286 χ^2/NDF : 1150.8/8

Left: 1132.621+/-0.208 χ^2/NDF : 2118.7/17

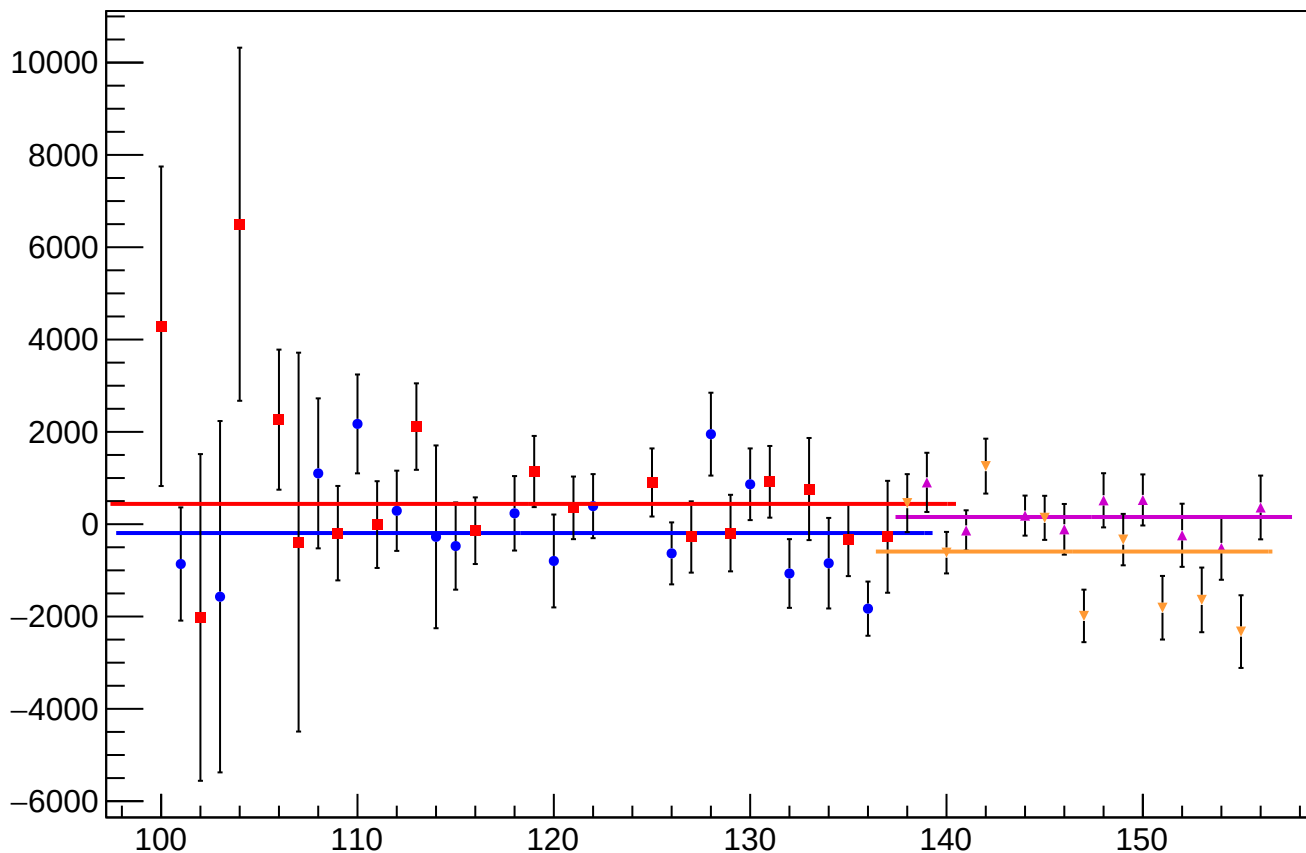
Right: 1256.610+/-0.237 χ^2/NDF : 869770.2/33

In: 1175.325+/-0.215 χ^2/NDF : 371149.8/24

Out: 1199.021+/-0.227 χ^2/NDF : 650126.8/26

All: 1186.571+/-0.156 χ^2/NDF : 1027024.9/51

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: -592.488 ± 193.285 χ^2/NDF : 31.2/8

Right Out: 439.611 ± 226.600 χ^2/NDF : 14.6/17

Left In: 156.067 ± 186.254 χ^2/NDF : 4.2/8

Left: -204.348 ± 134.118 χ^2/NDF : 43.3/17

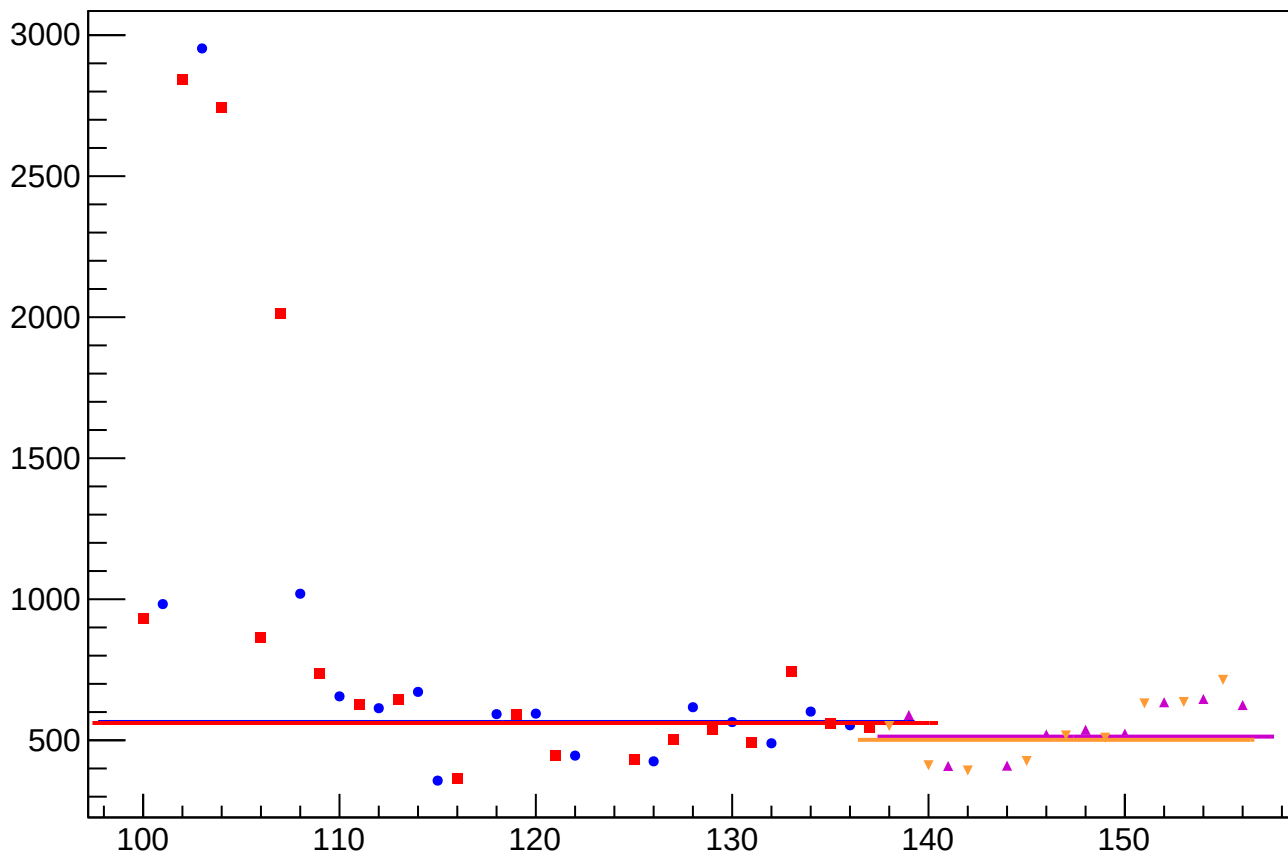
Right: 118.653 ± 158.857 χ^2/NDF : 43.9/33

In: 13.051 ± 142.889 χ^2/NDF : 31.0/24

Out: -157.816 ± 147.055 χ^2/NDF : 57.9/26

All: -69.928 ± 102.479 χ^2/NDF : 89.6/51

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: 501.583+/-0.137 χ^2/NDF : 500404.2/8

Right Out: 561.273+/-0.160 χ^2/NDF : 2273372.4/17

Left In: 512.968+/-0.132 χ^2/NDF : 450660.1/8

Left: 507.486+/-0.095 χ^2/NDF : 954662.2/17

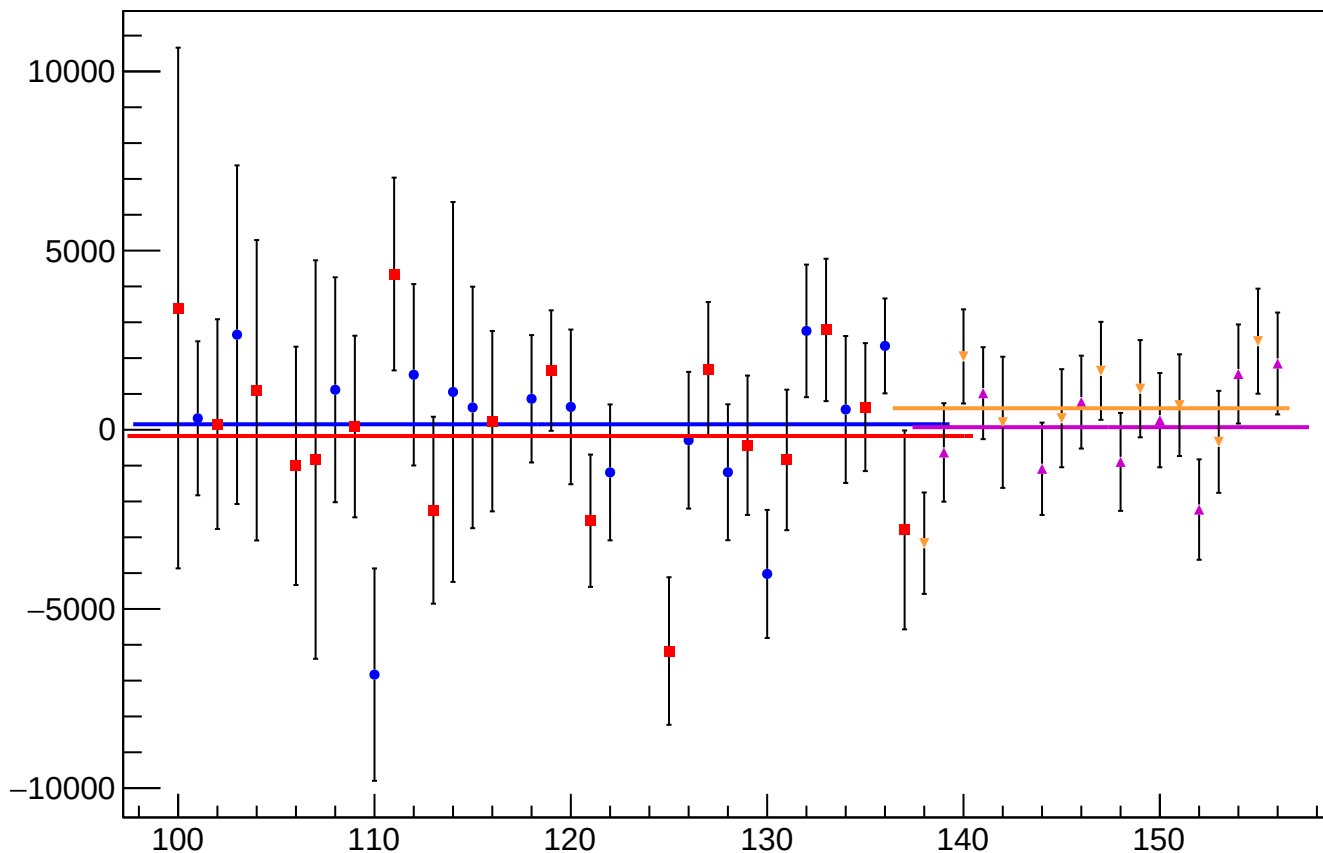
Right: 563.103+/-0.112 χ^2/NDF : 3754001.7/33

In: 534.323+/-0.101 χ^2/NDF : 1994935.3/24

Out: 526.721+/-0.104 χ^2/NDF : 2854106.9/26

All: 530.631+/-0.072 χ^2/NDF : 4851790.9/51

asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: 153.375+/-532.096 χ^2/NDF : 17.8/15

Left Out: 600.129+/-474.303 χ^2/NDF :11.2/8

Right Out: -174.319+/-550.153 χ^2/NDF : 19.7/17

Left In: 72.393+/-448.344 χ^2/NDF :7.8/8

Left: 321.424+/-325.818 χ^2/NDF : 19.7/17

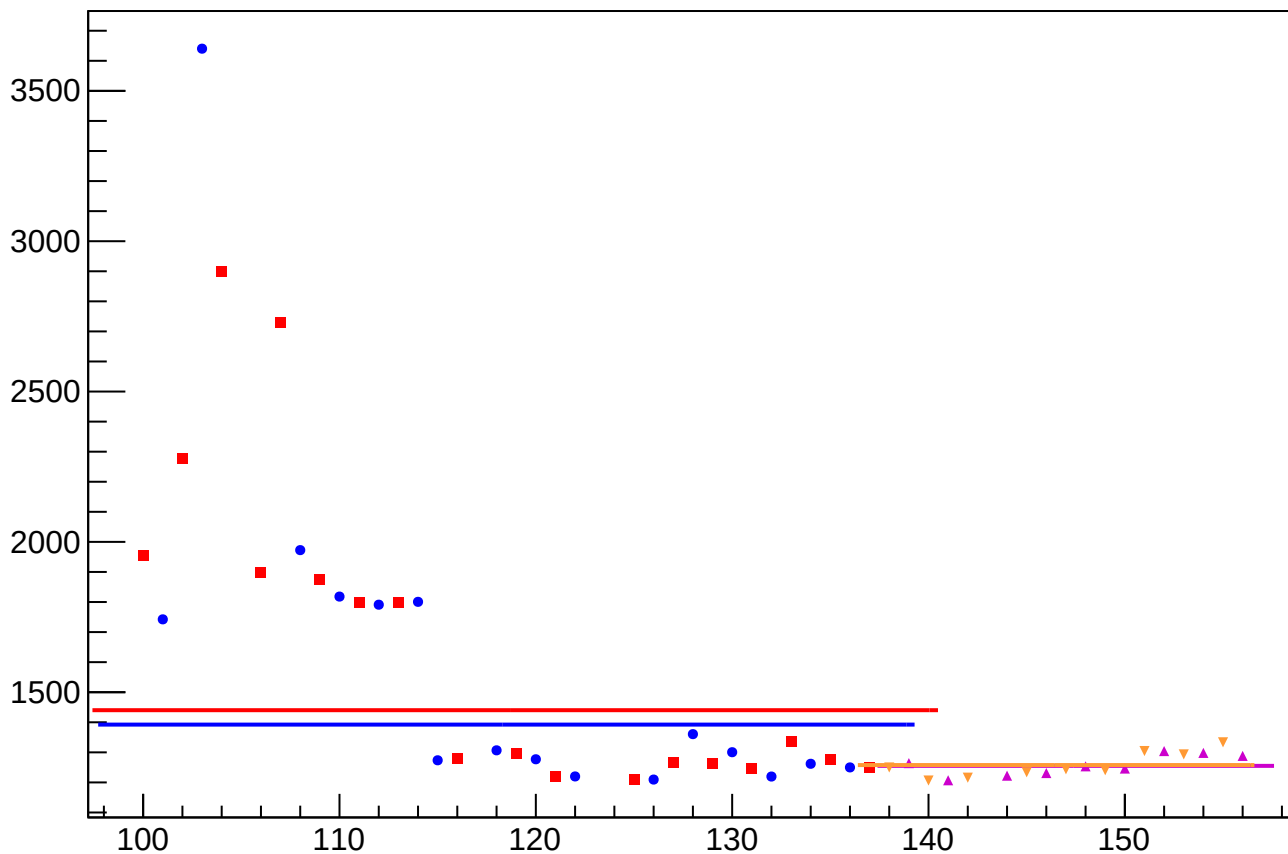
Right: -5.006+/-382.473 χ^2/NDF : 37.6/33

In: 106.016+/-342.860 χ^2/NDF :25.6/24

Out: 269.931+/-359.231 χ^2/NDF :32.0/26

All: 184.154+/-248.024 χ^2/NDF : 57.7/51

asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1392.299+/-0.376 χ^2/NDF : 779240.9/15

Left Out: 1257.697+/-0.335 χ^2/NDF : 14061.3/8

Right Out: 1440.222+/-0.389 χ^2/NDF : 854885.8/17

Left In: 1255.070+/-0.317 χ^2/NDF : 10436.8/8

Left: 1256.310+/-0.230 χ^2/NDF : 24530.5/17

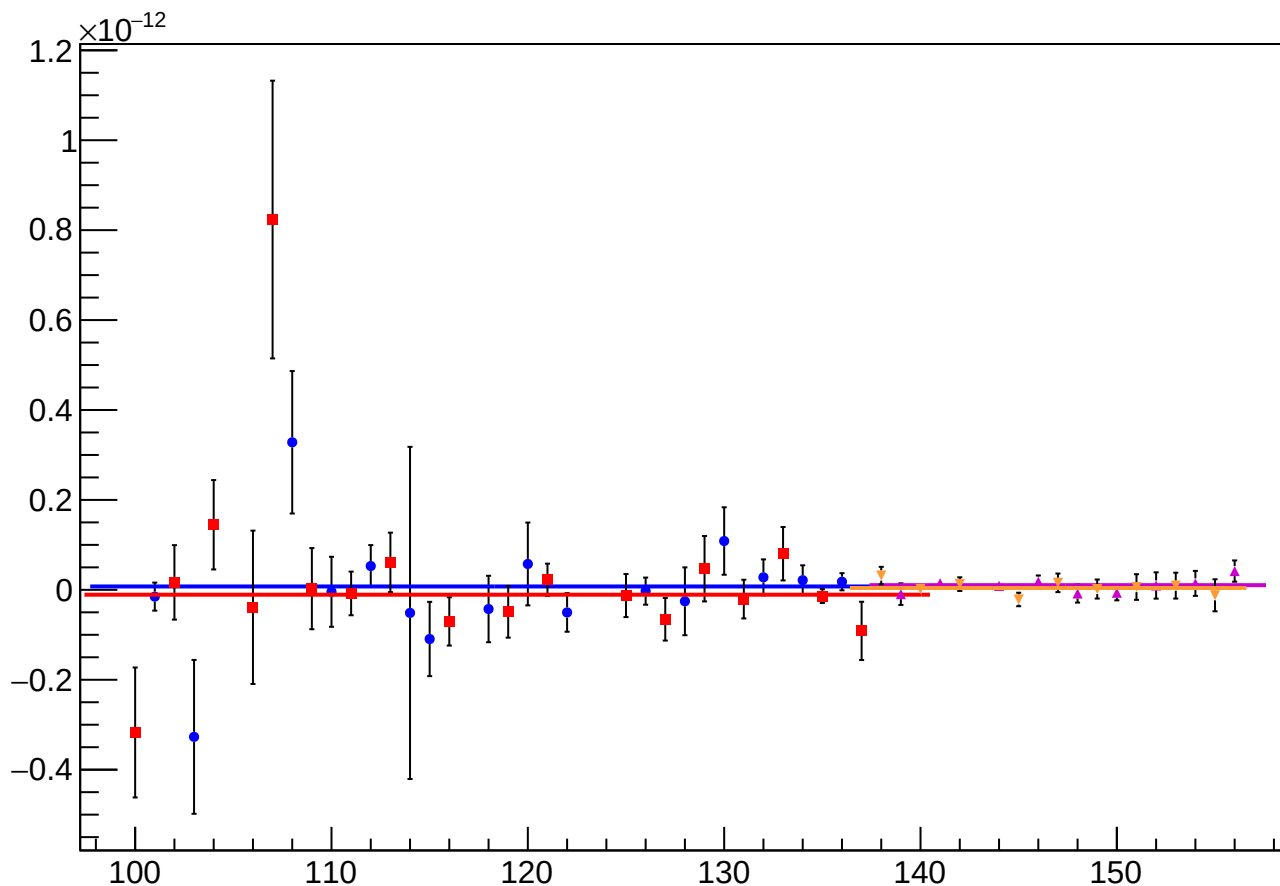
Right: 1415.461+/-0.270 χ^2/NDF : 1641967.9/33

In: 1312.047+/-0.242 χ^2/NDF : 867472.0/24

Out: 1335.519+/-0.254 χ^2/NDF : 995230.2/26

All: 1323.236+/-0.175 χ^2/NDF : 1867170.4/51

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 : 5.8/8

Right Out: -0.000+/-0.000 χ^2/NDF : 24.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 4.9/8

Left: 0.000+/-0.000 χ^2/NDF : 11.3/17

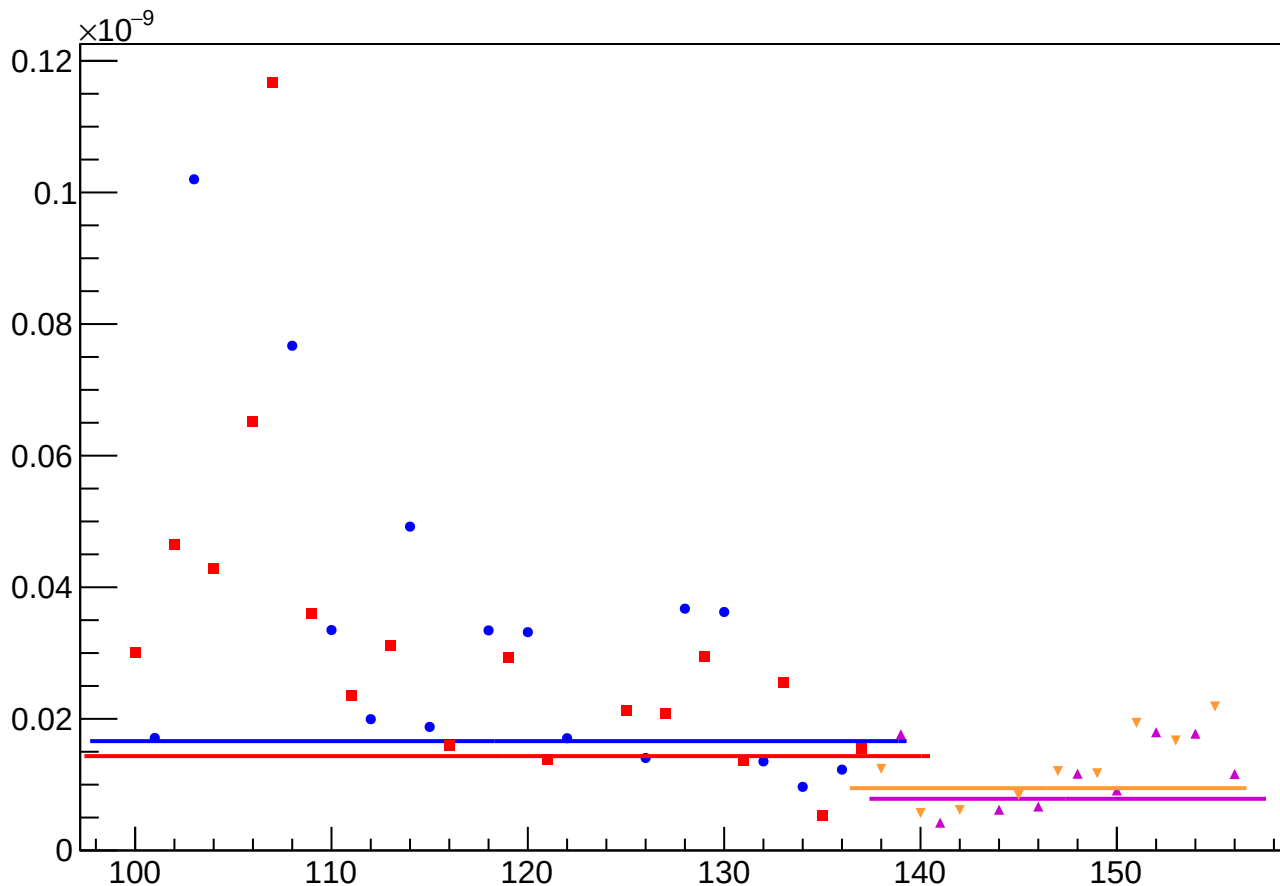
Right: -0.000+/-0.000 χ^2/NDF : 42.4/33

In: 0.000+/-0.000 χ^2/NDF : 21.8/24

Out: 0.000+/-0.000 χ^2/NDF : 31.4/26

All: 0.000+/-0.000 χ^2/NDF : 55.0/51

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 :1048079.4/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2258014.9/17

Left In: 0.000+/-0.000 χ^2/NDF :1323676.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2453502.7/17

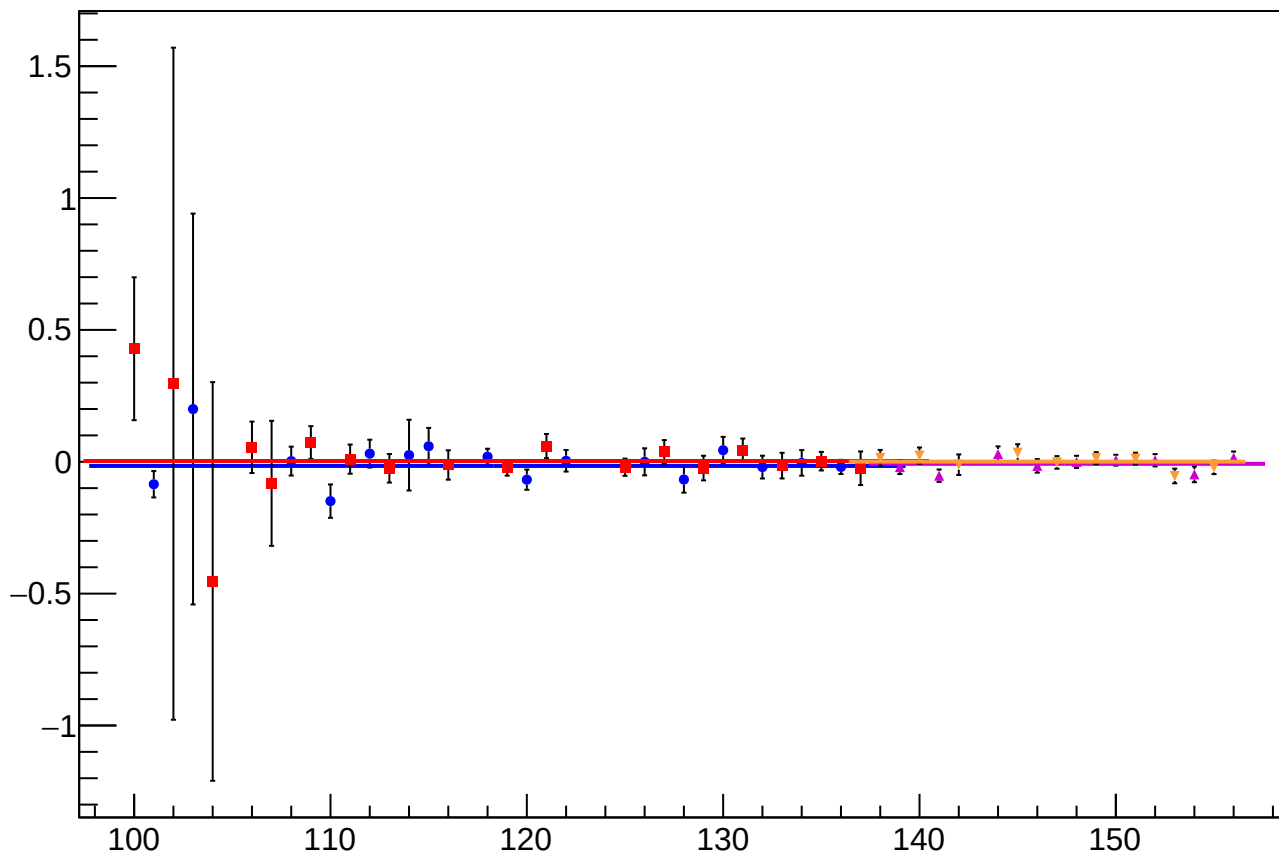
Right: 0.000+/-0.000 χ^2/NDF : 3876075.8/33

In: 0.000+/-0.000 χ^2/NDF :3956147.6/24

Out: 0.000+/-0.000 χ^2/NDF :3625212.2/26

All: 0.000+/-0.000 χ^2/NDF : 7638396.2/51

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: 0.001 ± 0.009 χ^2/NDF : 7.0/8

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.008 ± 0.008 χ^2/NDF : 9.3/8

Left: -0.004 ± 0.006 χ^2/NDF : 16.7/17

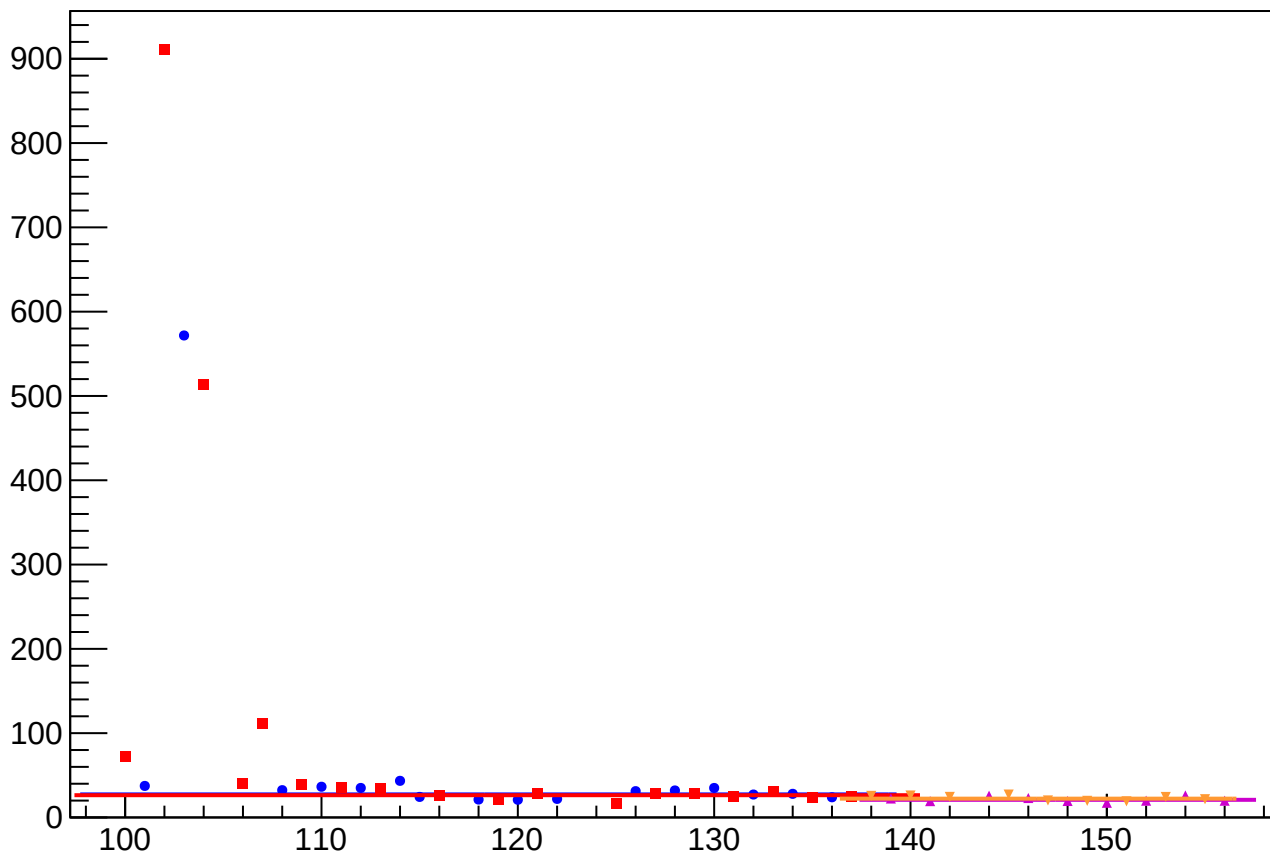
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.010 ± 0.007 χ^2/NDF : 24.2/24

Out: 0.001 ± 0.007 χ^2/NDF : 16.9/26

All: -0.005 ± 0.005 χ^2/NDF : 42.6/51

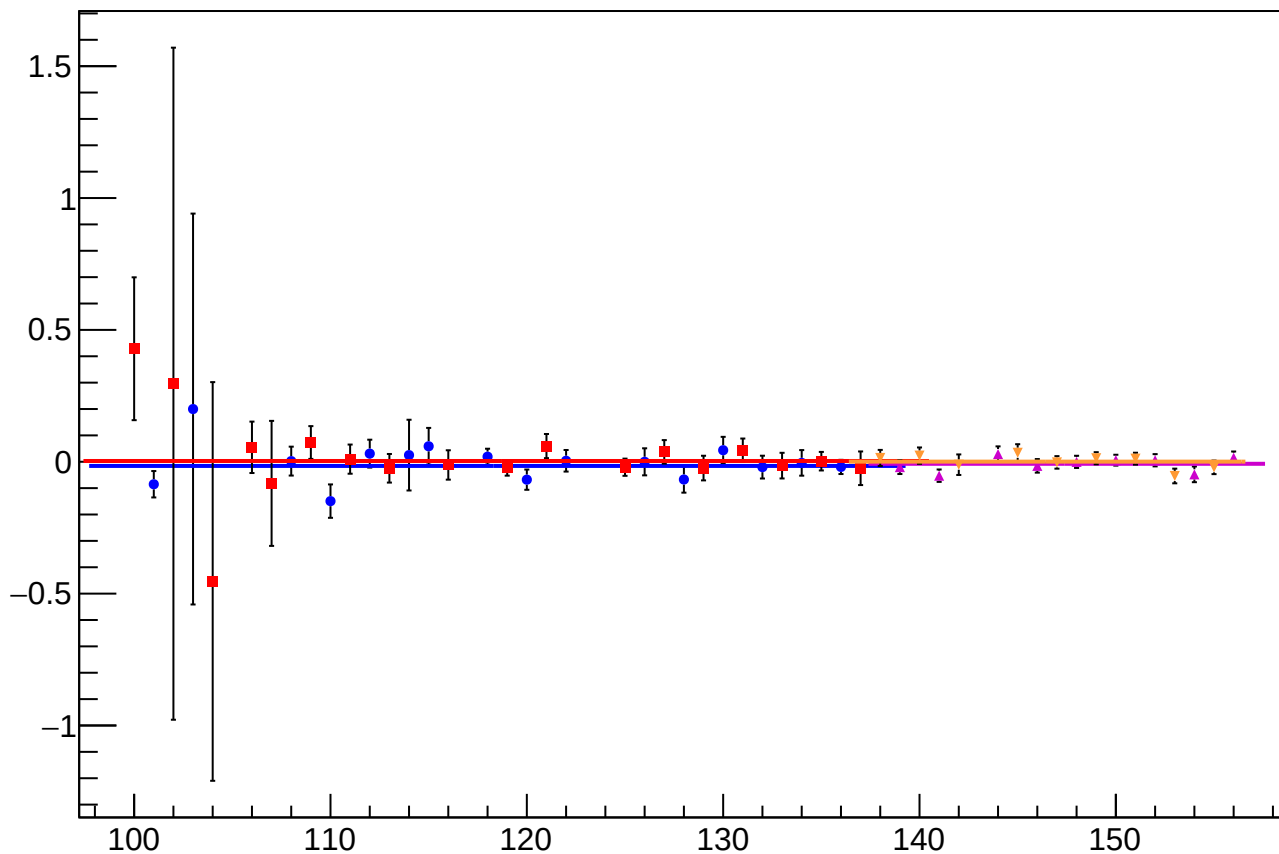
asym usl atl1 dd dit vs cor diff rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568329.0/15
Left Out: 22.309+/-0.006 χ^2/NDF :194239.5/8
Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17
Left In: 20.910+/-0.006 χ^2/NDF :218962.4/8

Left: 21.536 $\pm$ 0.004 χ^2/NDF : 439400.0/17
 Right: 26.870 $\pm$ 0.006 χ^2/NDF : 4188911.1/33
 In: 23.042 $\pm$ 0.005 χ^2/NDF : 2195344.8/24
 Out: 23.795 $\pm$ 0.005 χ^2/NDF : 2956416.6/26
 All: 23.387 $\pm$ 0.003 χ^2/NDF : 5163454.5/51

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: 0.001 ± 0.009 χ^2/NDF : 7.0/8

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.008 ± 0.008 χ^2/NDF : 9.3/8

Left: -0.004 ± 0.006 χ^2/NDF : 16.7/17

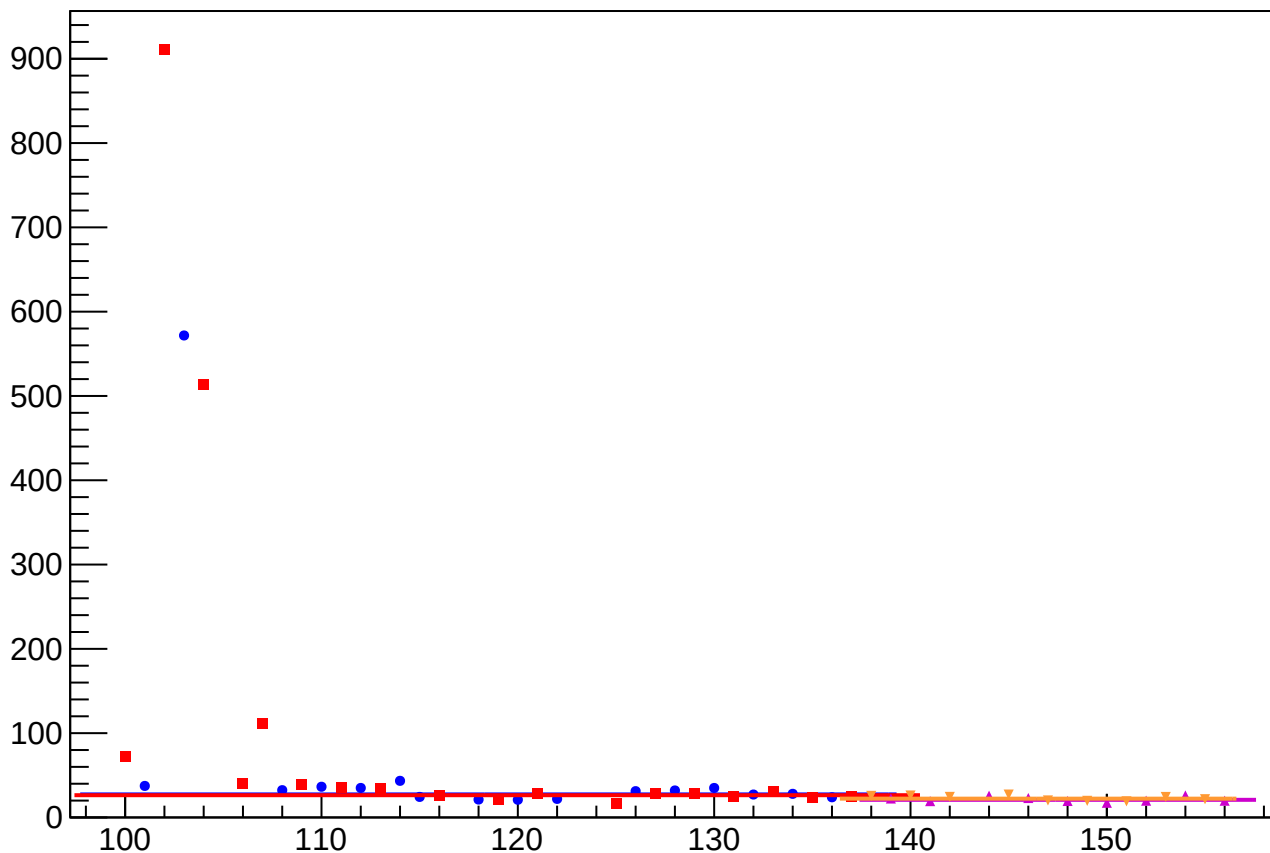
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.010 ± 0.007 χ^2/NDF : 24.2/24

Out: 0.001 ± 0.007 χ^2/NDF : 16.9/26

All: -0.005 ± 0.005 χ^2/NDF : 42.6/51

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: 22.309+/-0.006 χ^2/NDF :194239.5/8

Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17

Left In: 20.910+/-0.006 χ^2/NDF :218962.4/8

Left: 21.536+/-0.004 χ^2/NDF : 439400.0/17

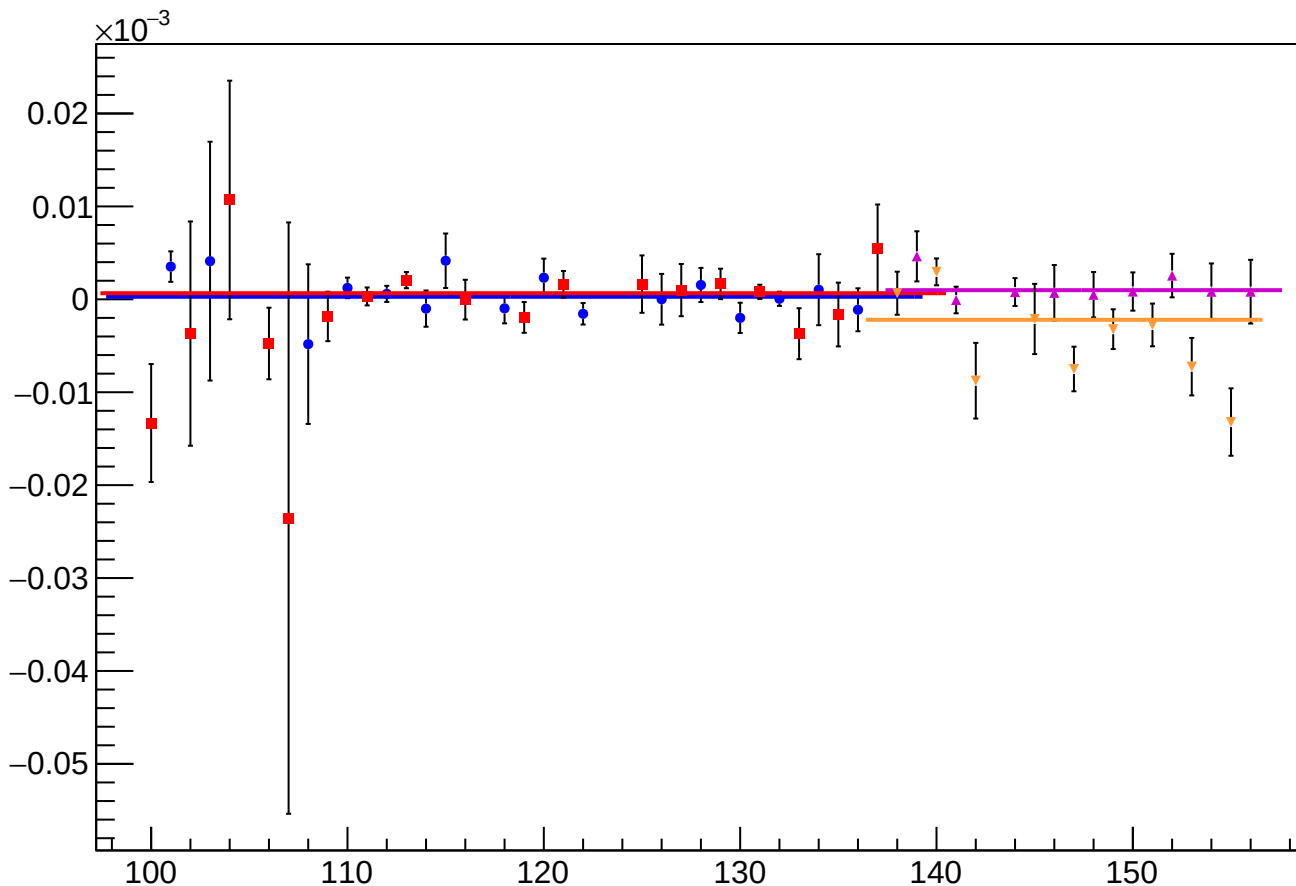
Right: 26.870+/-0.006 χ^2/NDF : 4188911.1/33

In: 23.042+/-0.005 χ^2/NDF :2195344.8/24

Out: 23.795+/-0.005 χ^2/NDF :2956416.6/26

All: 23.387+/-0.003 χ^2/NDF : 5163454.5/51

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 : 33.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 19.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 2.9/8

Left: -0.000+/-0.000 χ^2/NDF : 45.6/17

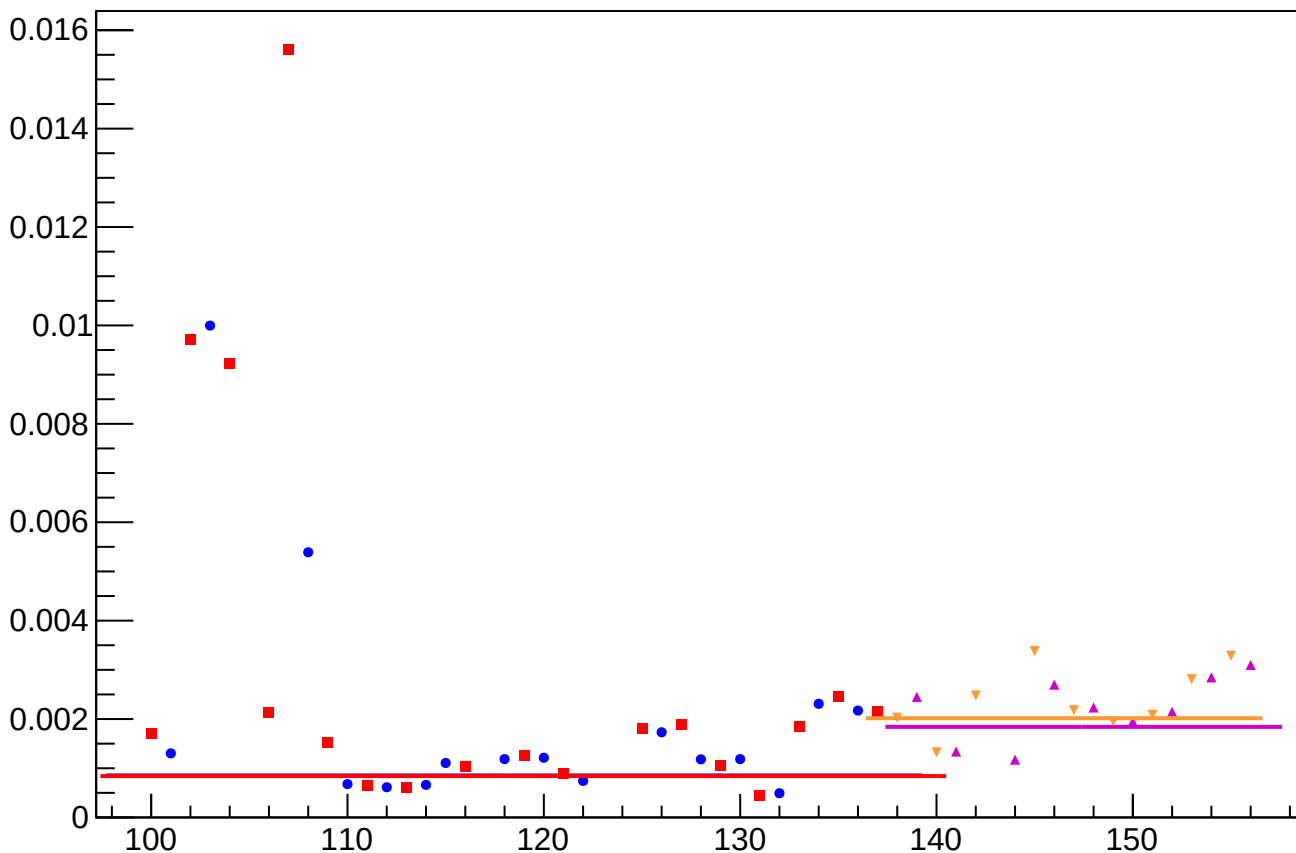
Right: 0.000+/-0.000 χ^2/NDF : 34.2/33

In: 0.000+/-0.000 χ^2/NDF : 18.1/24

Out: 0.000+/-0.000 χ^2/NDF : 63.3/26

All: 0.000+/-0.000 χ^2/NDF : 81.9/51

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 : 1136736.9/8

Right Out: 0.001+/-0.000 χ^2/NDF : 5039455.2/17

Left In: 0.002+/-0.000 χ^2/NDF : 1488546.8/8

Left: 0.002+/-0.000 χ^2/NDF : 2678993.5/17

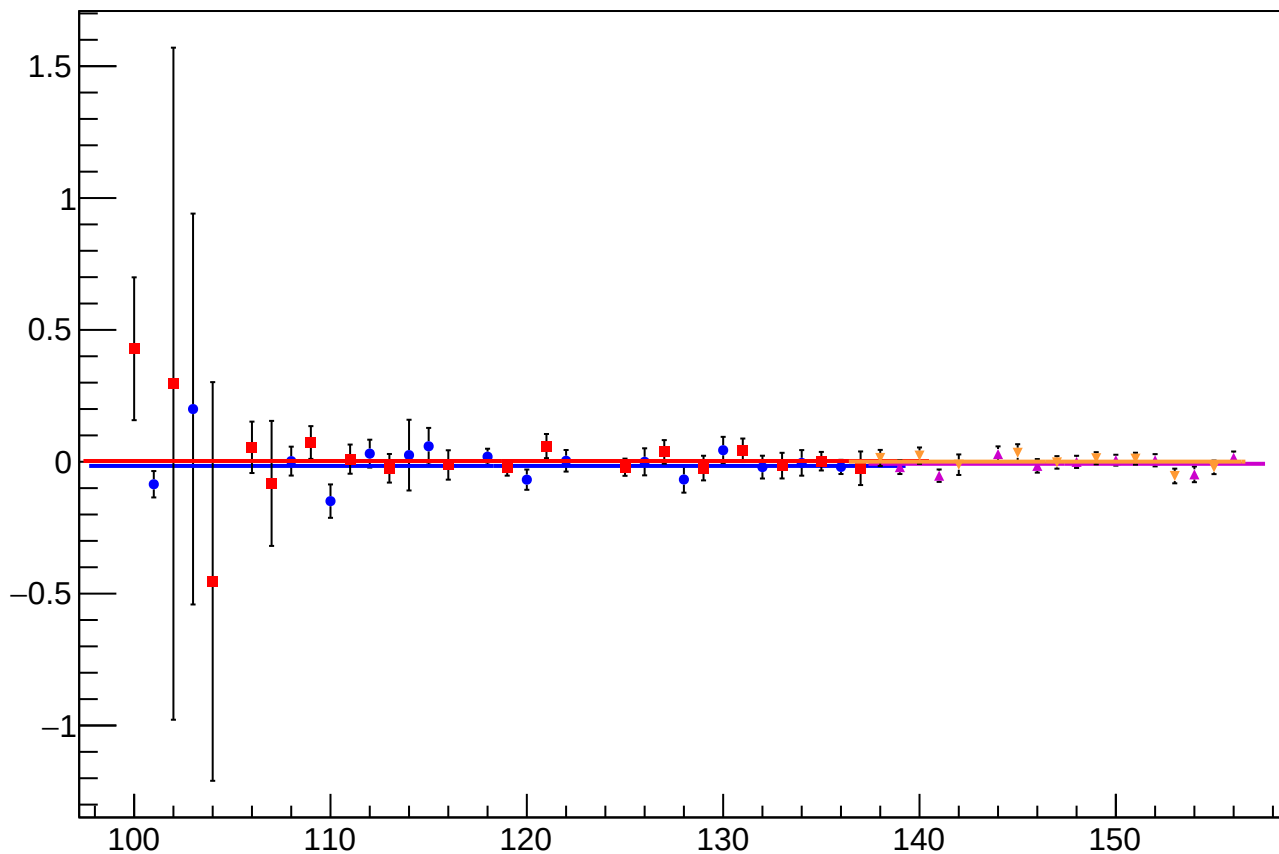
Right: 0.001+/-0.000 χ^2/NDF : 8904244.0/33

In: 0.001+/-0.000 χ^2/NDF : 8349811.3/24

Out: 0.001+/-0.000 χ^2/NDF : 9628358.2/26

All: 0.001+/-0.000 χ^2/NDF : 17978479.3/51

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: 0.001 ± 0.009 χ^2/NDF : 7.0/8

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.008 ± 0.008 χ^2/NDF : 9.3/8

Left: -0.004 ± 0.006 χ^2/NDF : 16.7/17

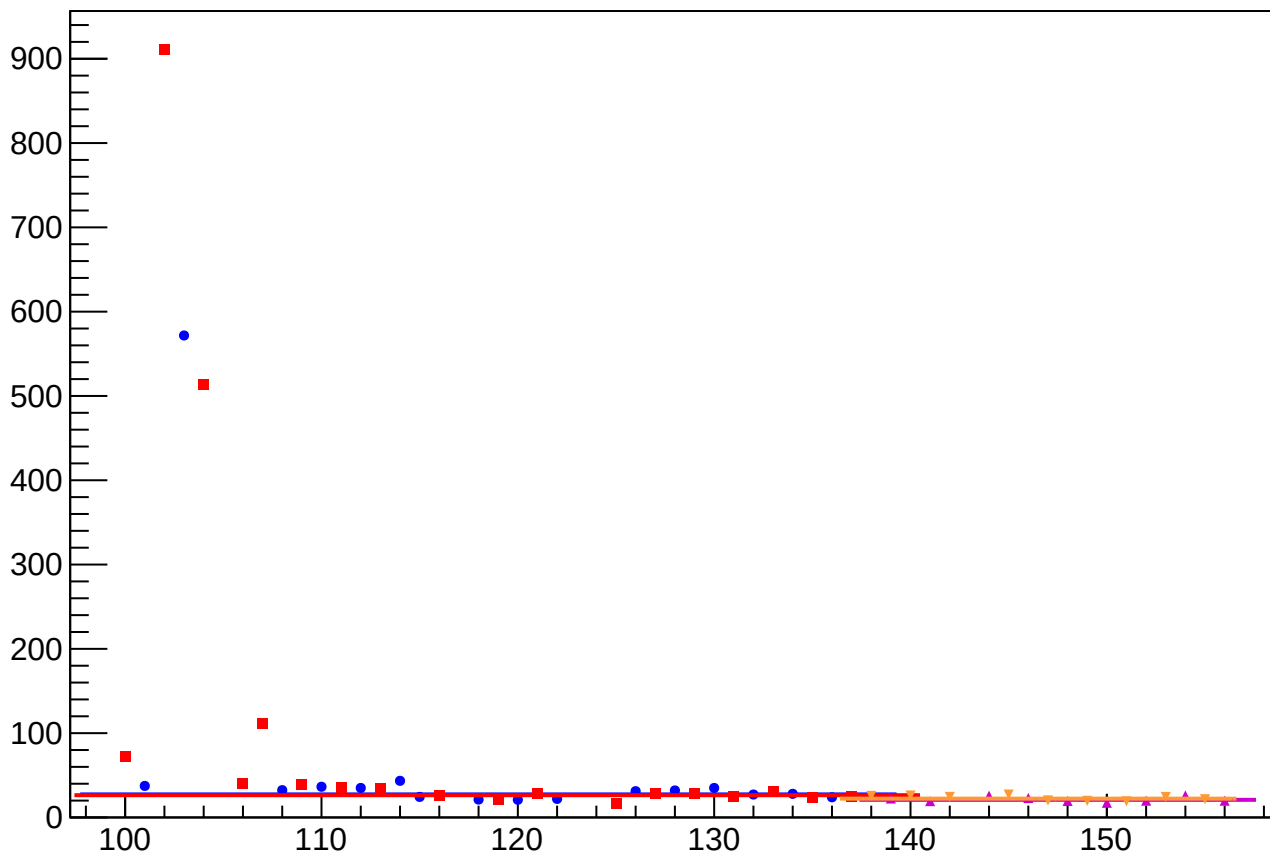
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.010 ± 0.007 χ^2/NDF : 24.2/24

Out: 0.001 ± 0.007 χ^2/NDF : 16.9/26

All: -0.005 ± 0.005 χ^2/NDF : 42.5/51

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305 $\pm$ 0.008 χ^2 /NDF: 1568325.9/15

Left Out: 22.309 $\pm$ 0.006 χ^2 /NDF:194224.3/8

Right Out: 26.400 $\pm$ 0.009 χ^2 /NDF: 2614710.8/17

Left In: 20.911 $\pm$ 0.006 χ^2 /NDF:218958.2/8

Left: 21.536 $\pm$ 0.004 χ^2 /NDF: 439373.2/17

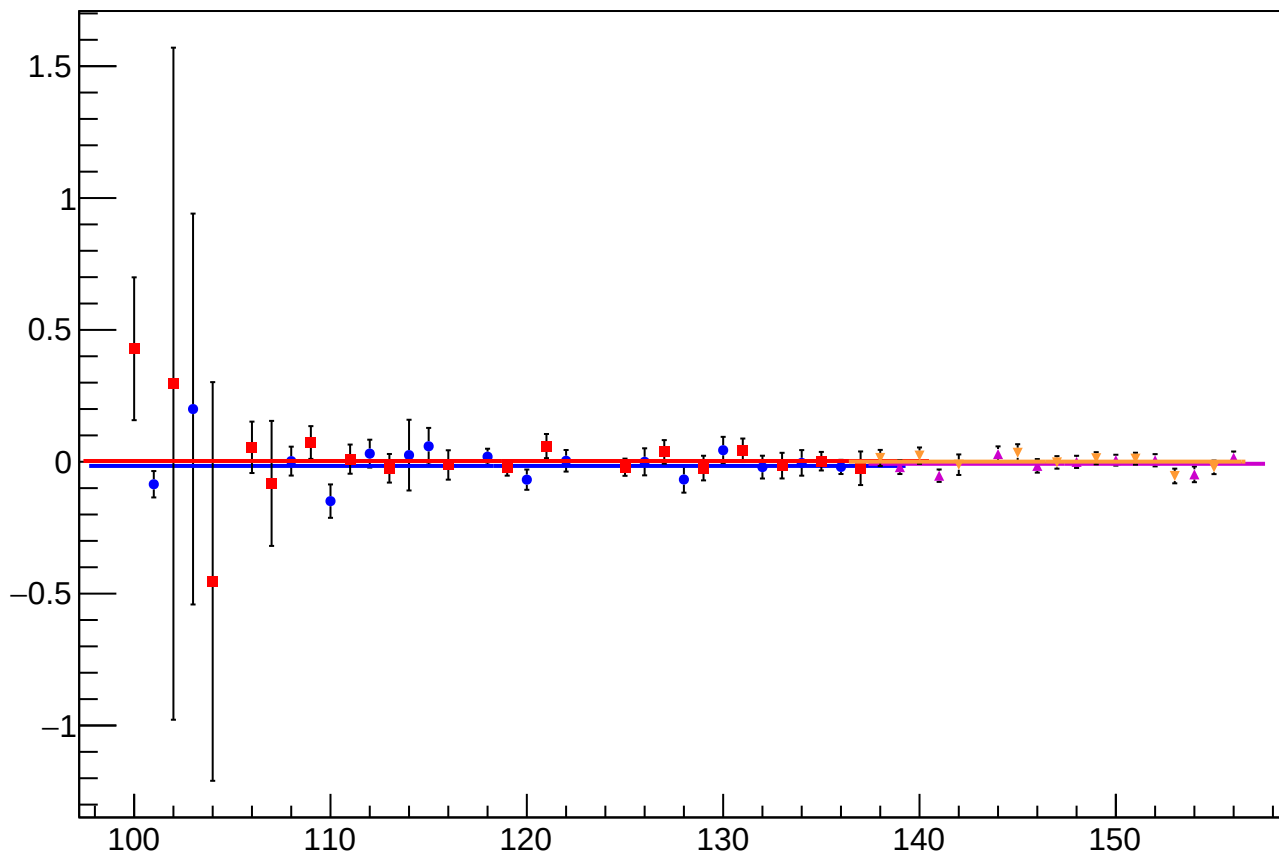
Right: 26.870 $\pm$ 0.006 χ^2 /NDF: 4188927.1/33

In: 23.042 $\pm$ 0.005 χ^2 /NDF:2195316.8/24

Out: 23.795 $\pm$ 0.005 χ^2 /NDF:2956423.7/26

All: 23.387 $\pm$ 0.003 χ^2 /NDF: 5163429.1/51

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: 0.001 ± 0.009 χ^2/NDF : 7.0/8

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.008 ± 0.008 χ^2/NDF : 9.3/8

Left: -0.004 ± 0.006 χ^2/NDF : 16.7/17

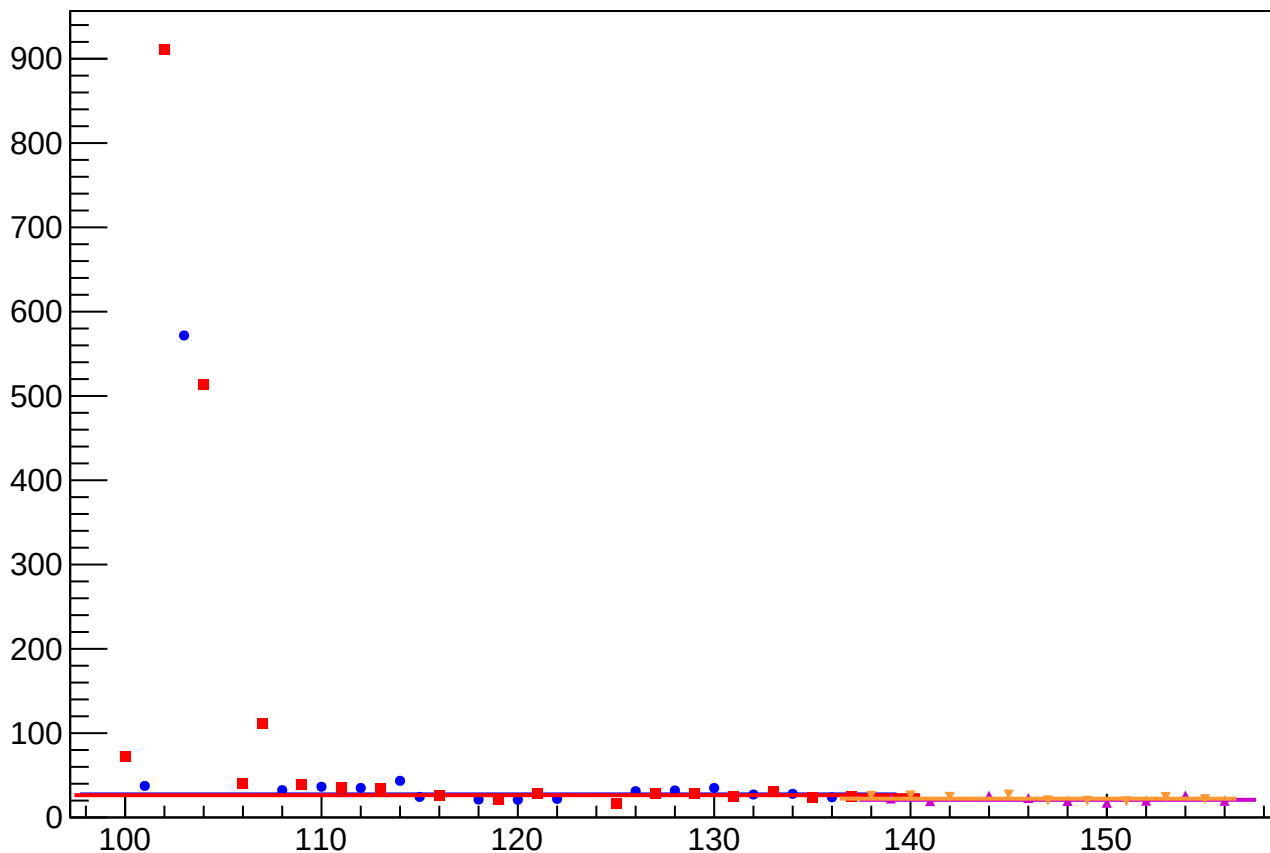
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.010 ± 0.007 χ^2/NDF : 24.2/24

Out: 0.001 ± 0.007 χ^2/NDF : 16.9/26

All: -0.005 ± 0.005 χ^2/NDF : 42.5/51

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: 22.309+/-0.006 χ^2/NDF :194224.3/8

Right Out: 26.400+/-0.009 χ^2/NDF : 2614710.8/17

Left In: 20.911+/-0.006 χ^2/NDF :218958.2/8

Left: 21.536+/-0.004 χ^2/NDF : 439373.2/17

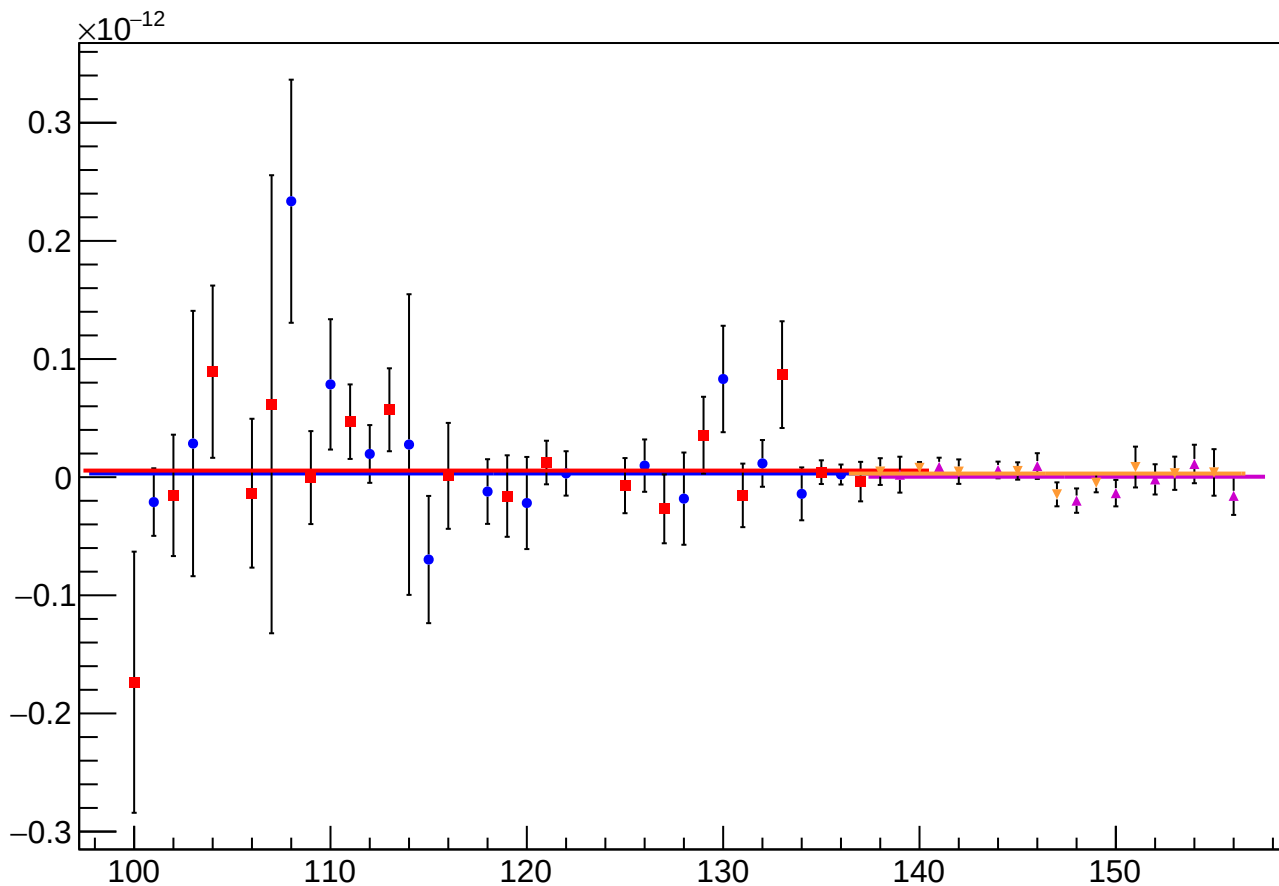
Right: 26.870+/-0.006 χ^2/NDF : 4188927.1/33

In: 23.042+/-0.005 χ^2/NDF :2195316.8/24

Out: 23.795+/-0.005 χ^2/NDF :2956423.7/26

All: 23.387+/-0.003 χ^2/NDF : 5163429.1/51

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 : 5.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 15.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 9.4/8

Left: 0.000+/-0.000 χ^2/NDF : 14.8/17

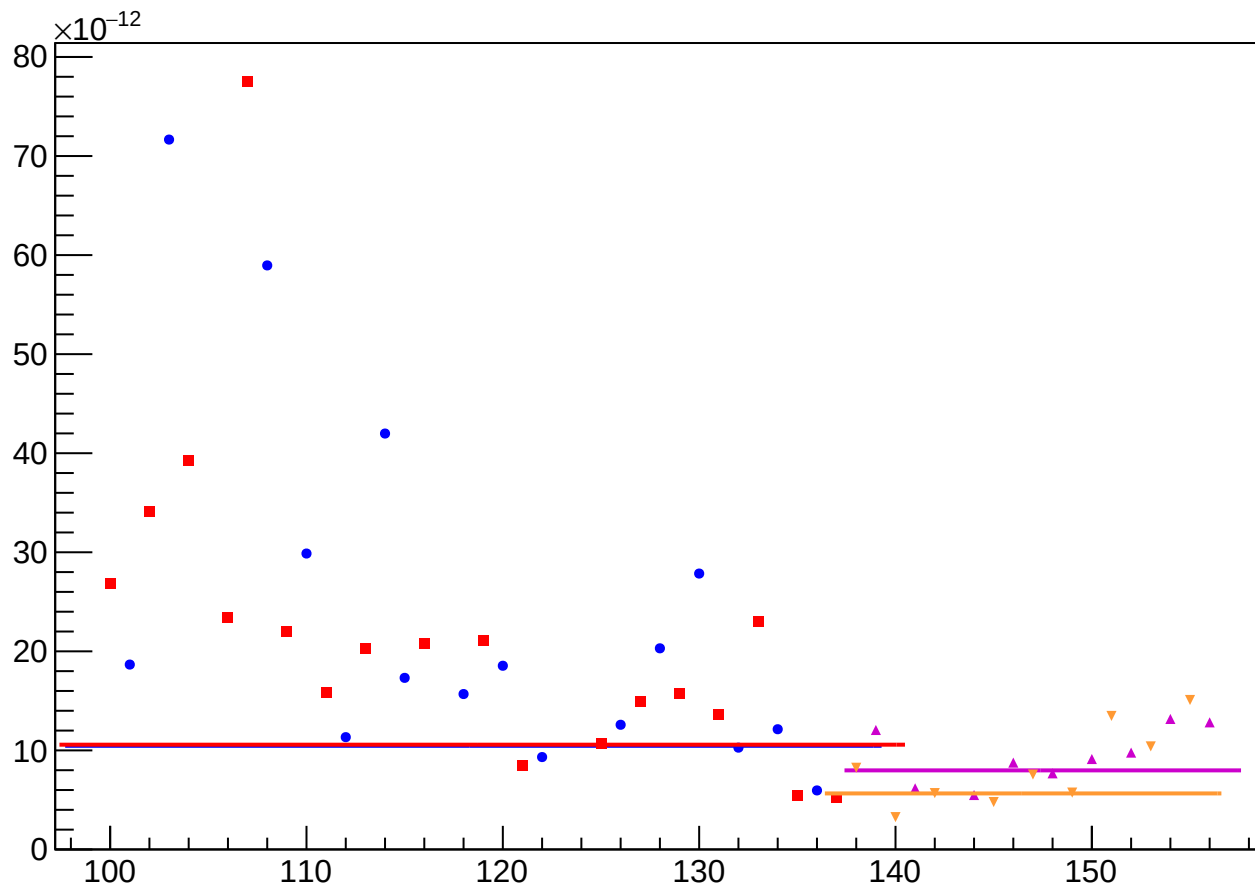
Right: 0.000+/-0.000 χ^2/NDF : 30.4/33

In: 0.000+/-0.000 χ^2/NDF : 24.6/24

Out: 0.000+/-0.000 χ^2/NDF : 20.5/26

All: 0.000+/-0.000 χ^2/NDF : 45.5/51

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 :1772713.3/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2771384.1/17

Left In: 0.000+/-0.000 χ^2/NDF :955279.5/8

Left: 0.000+/-0.000 χ^2/NDF : 3236558.0/17

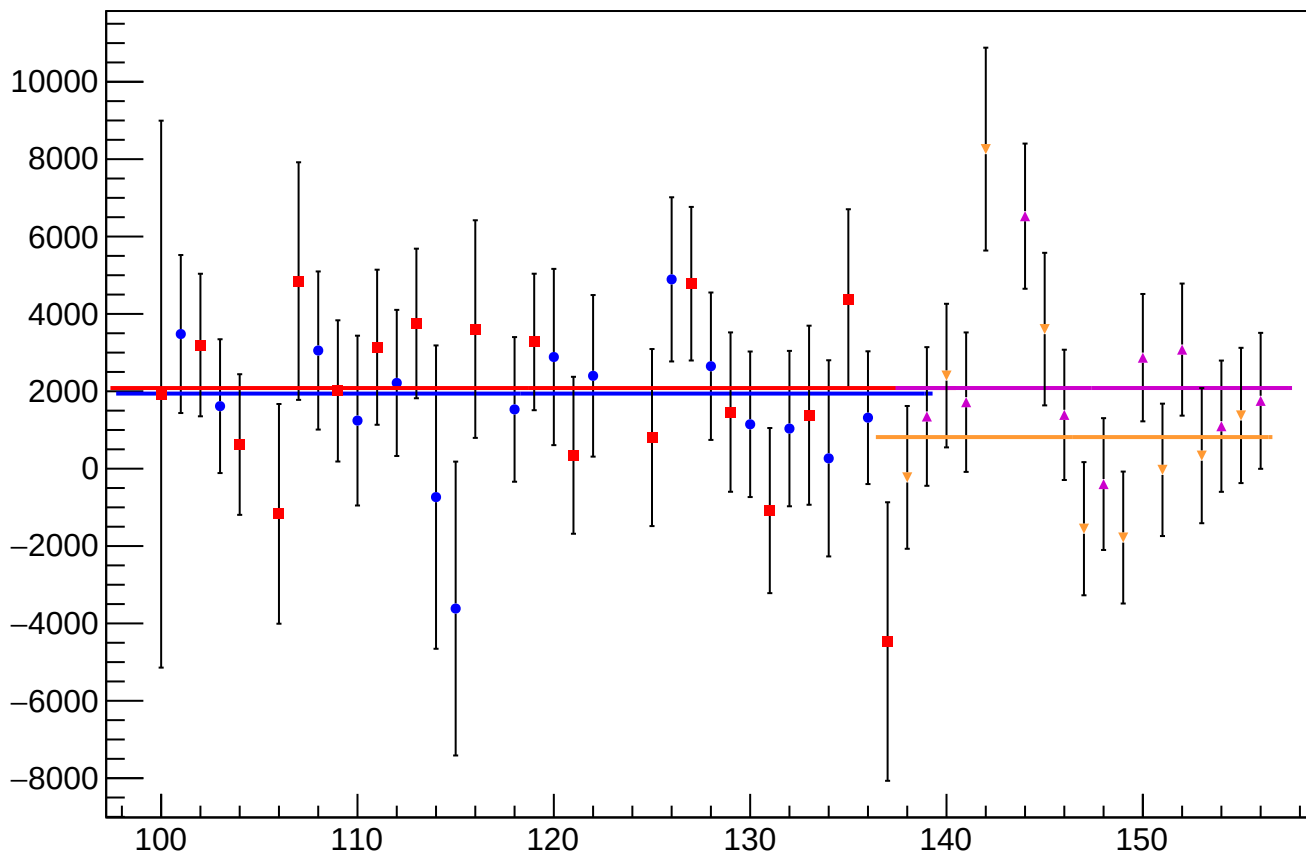
Right: 0.000+/-0.000 χ^2/NDF : 5566631.8/33

In: 0.000+/-0.000 χ^2/NDF :4021522.8/24

Out: 0.000+/-0.000 χ^2/NDF :5599202.5/26

All: 0.000+/-0.000 χ^2/NDF : 10143918.4/51

reg_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1940.976 $\pm$ 522.174 χ^2 /NDF: 6.9/15

Left Out: 816.494 $\pm$ 612.598 χ^2 /NDF:15.8/8

Right Out: 2083.952 $\pm$ 519.583 χ^2 /NDF: 14.5/17

Left In: 2084.600 $\pm$ 578.878 χ^2 /NDF:9.0/8

Left: 1486.407 $\pm$ 420.744 χ^2 /NDF: 27.1/17

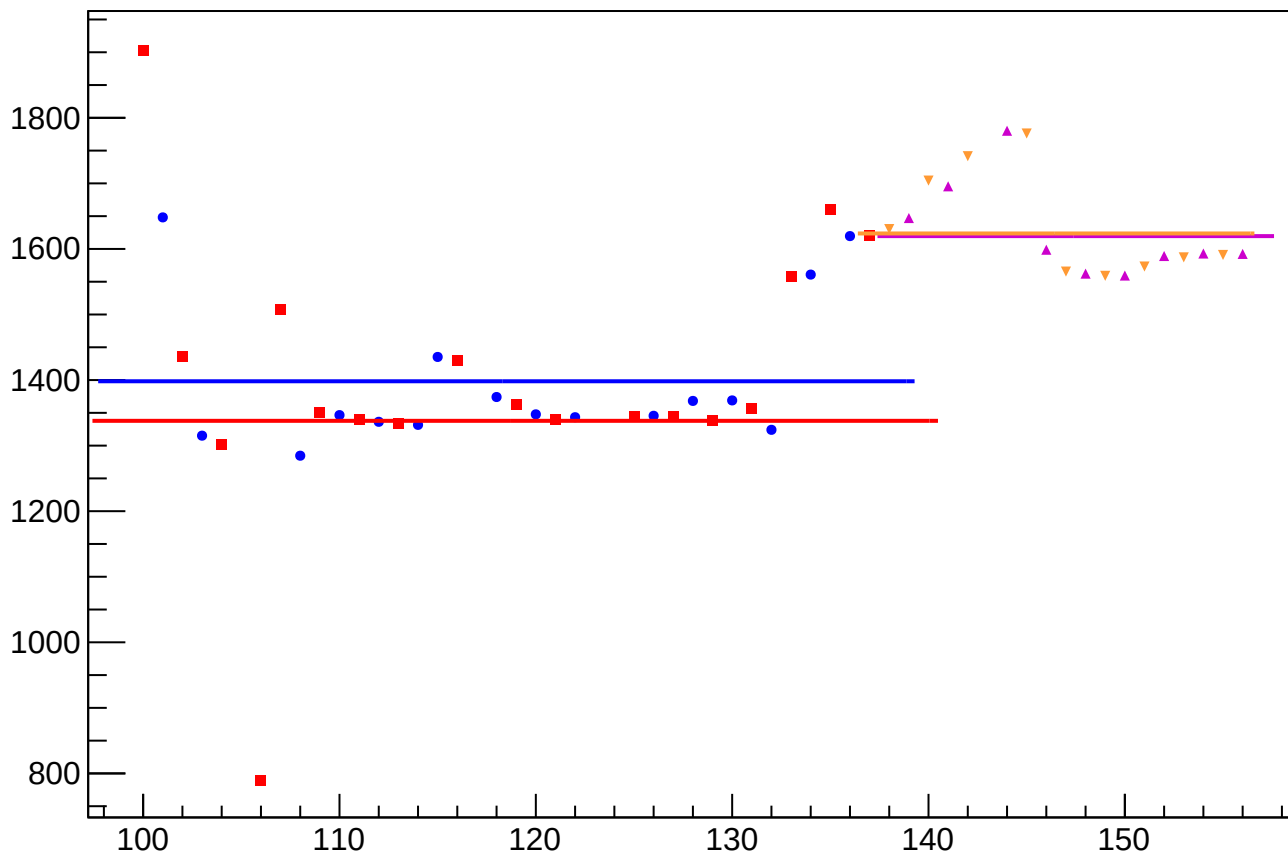
Right: 2012.819 $\pm$ 368.313 χ^2 /NDF: 21.4/33

In: 2005.411 $\pm$ 387.734 χ^2 /NDF:16.0/24

Out: 1553.653 $\pm$ 396.250 χ^2 /NDF:32.7/26

All: 1784.438 $\pm$ 277.131 χ^2 /NDF: 49.4/51

reg_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161 $\pm$ 0.369 χ^2 /NDF: 93923.6/15

Left Out: 1623.600 $\pm$ 0.433 χ^2 /NDF: 28269.2/8

Right Out: 1337.819 $\pm$ 0.356 χ^2 /NDF: 317763.3/17

Left In: 1619.562 $\pm$ 0.409 χ^2 /NDF: 25528.5/8

Left: 1621.467 $\pm$ 0.298 χ^2 /NDF: 53843.6/17

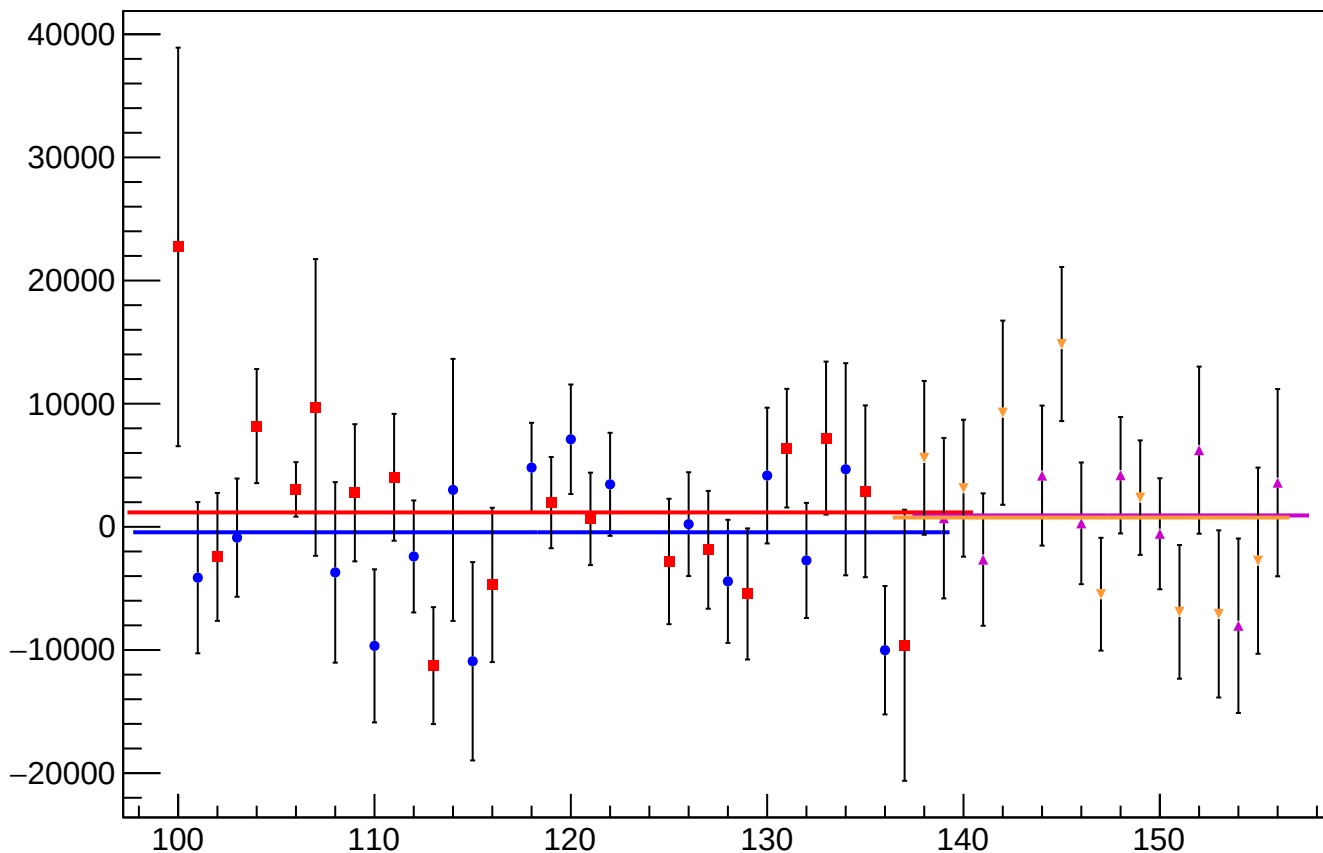
Right: 1366.881 $\pm$ 0.256 χ^2 /NDF: 425531.4/33

In: 1497.490 $\pm$ 0.274 χ^2 /NDF: 280759.7/24

Out: 1452.992 $\pm$ 0.275 χ^2 /NDF: 605875.5/26

All: 1475.307 $\pm$ 0.194 χ^2 /NDF: 899766.3/51

asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -441.138+/-1295.916 χ^2/NDF : 15.9/15

Left Out: 757.087+/-1929.894 χ^2/NDF : 12.7/8

Right Out: 1171.548+/-1119.890 χ^2/NDF : 19.7/17

Left In: 926.187+/-1880.069 χ^2/NDF : 3.7/8

Left: 843.848+/-1346.680 χ^2/NDF : 16.4/17

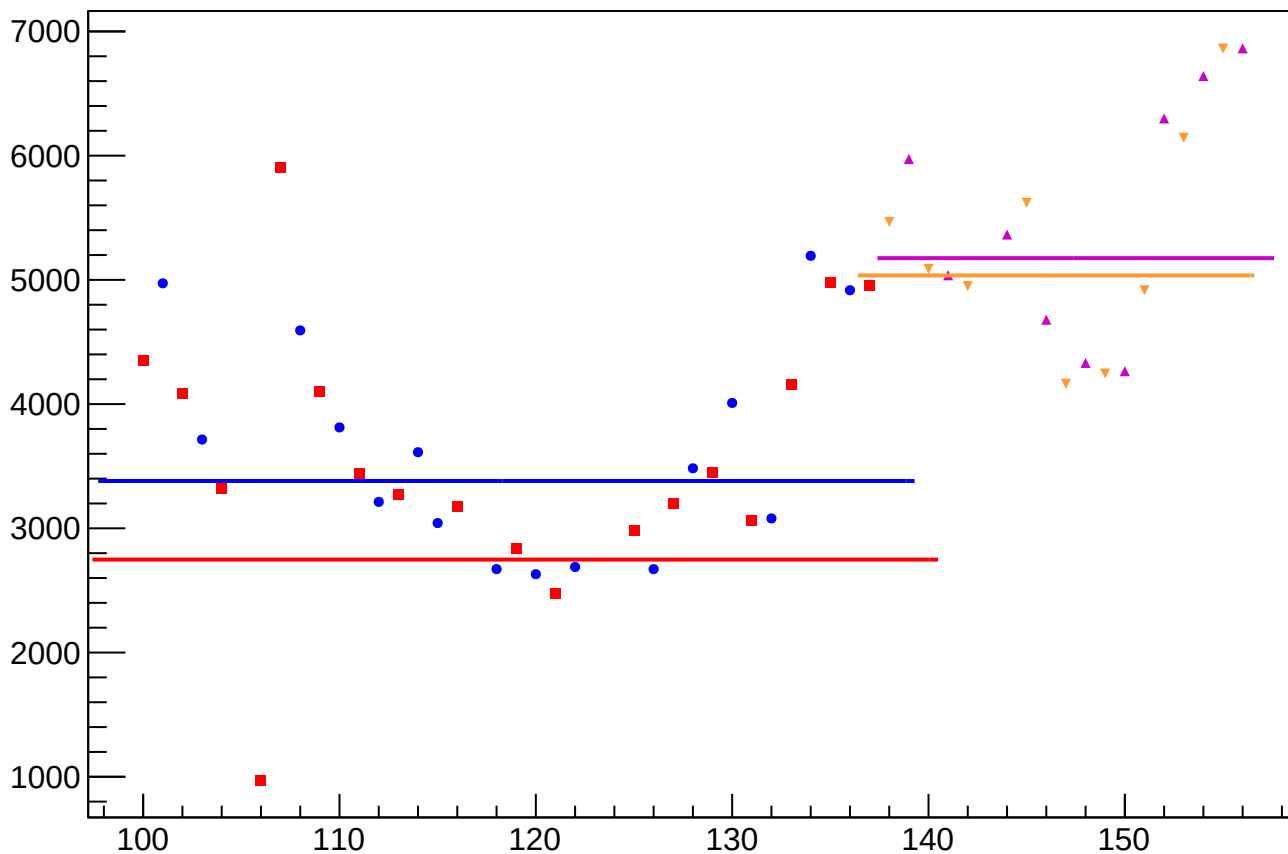
Right: 482.092+/-847.335 χ^2/NDF : 36.5/33

In: -0.735+/-1066.996 χ^2/NDF : 20.0/24

Out: 1067.143+/-968.619 χ^2/NDF : 32.4/26

All: 584.692+/-717.181 χ^2/NDF : 52.9/51

asym_usl_atl2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3381.117 $\pm$ 0.916 χ^2 /NDF: 757146.6/15

Left Out: 5035.702 $\pm$ 1.365 χ^2 /NDF:328690.0/8

Right Out: 2748.372 $\pm$ 0.792 χ^2 /NDF: 2264563.8/17

Left In: 5174.976 $\pm$ 1.329 χ^2 /NDF:438072.8/8

Left: 5107.160 $\pm$ 0.952 χ^2 /NDF: 772106.9/17

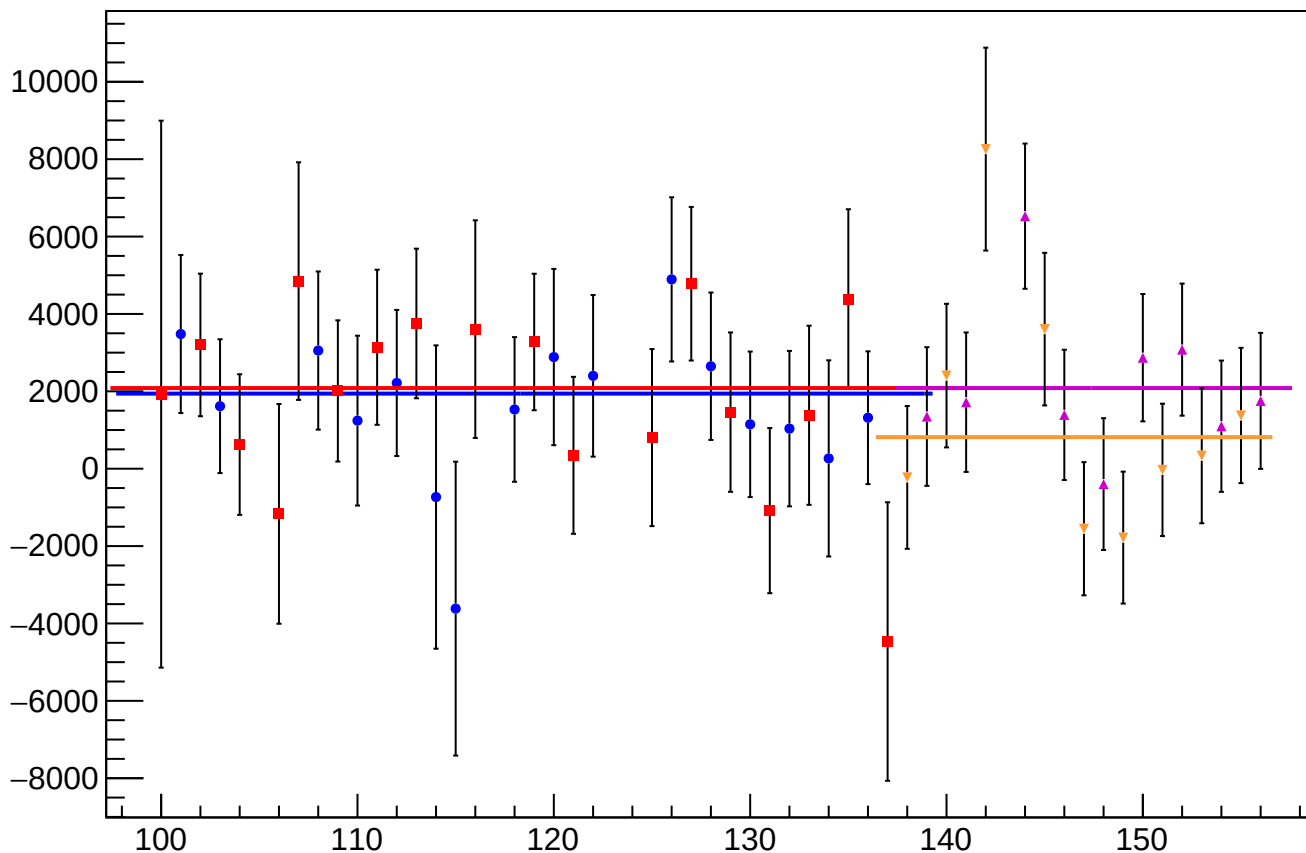
Right: 3018.883 $\pm$ 0.599 χ^2 /NDF: 3294667.2/33

In: 3958.902 $\pm$ 0.754 χ^2 /NDF:2429546.9/24

Out: 3324.565 $\pm$ 0.685 χ^2 /NDF:4694982.2/26

All: 3611.149 $\pm$ 0.507 χ^2 /NDF: 7512049.9/51

cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031 $\pm$ 522.174 χ^2 /NDF: 6.9/15

Left Out: 816.531 $\pm$ 612.598 χ^2 /NDF:15.8/8

Right Out: 2084.166 $\pm$ 519.587 χ^2 /NDF: 14.5/17

Left In: 2084.741 $\pm$ 578.878 χ^2 /NDF:9.0/8

Left: 1486.499 $\pm$ 420.744 χ^2 /NDF: 27.1/17

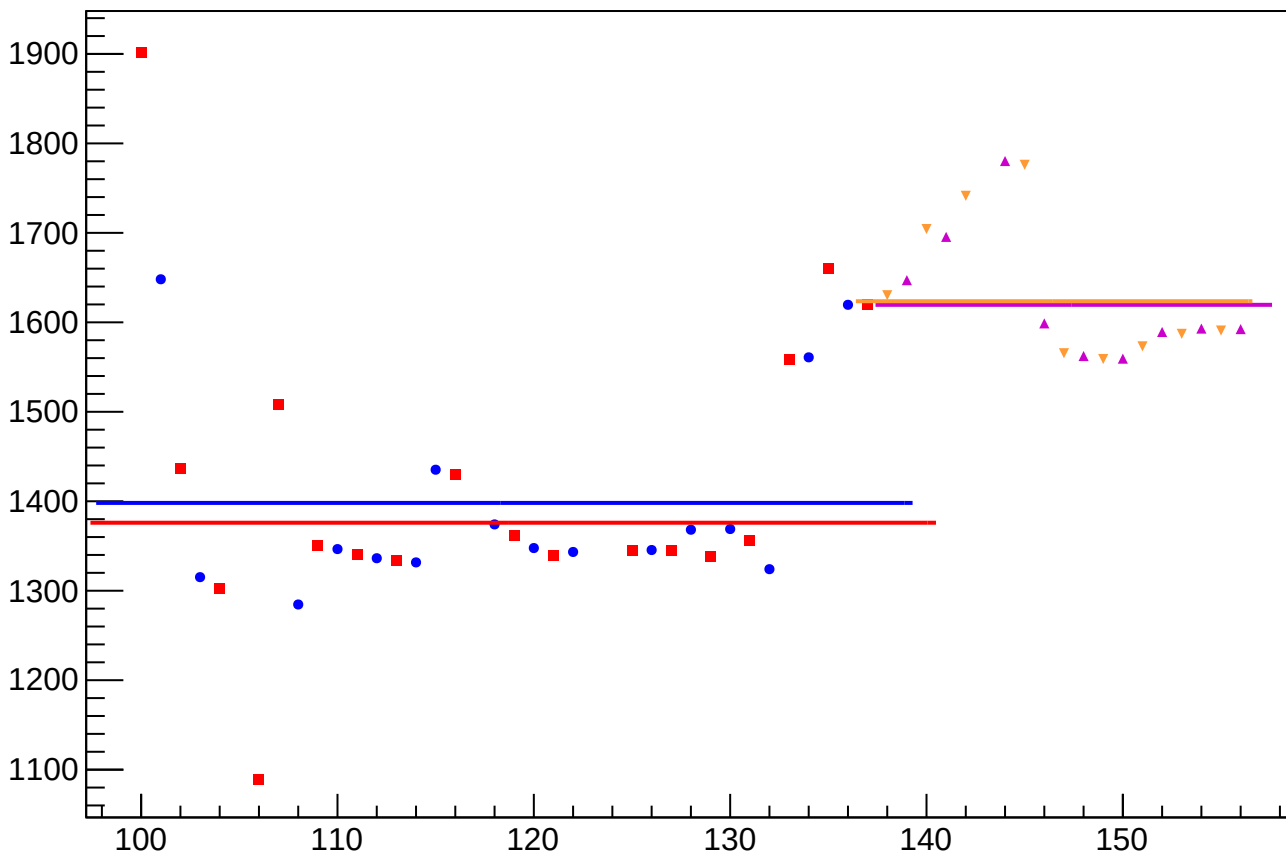
Right: 2012.954 $\pm$ 368.315 χ^2 /NDF: 21.4/33

In: 2005.505 $\pm$ 387.734 χ^2 /NDF:16.0/24

Out: 1553.789 $\pm$ 396.251 χ^2 /NDF:32.7/26

All: 1784.553 $\pm$ 277.132 χ^2 /NDF: 49.4/51

cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1623.600+/-0.433 χ^2/NDF : 28269.2/8

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1619.562+/-0.409 χ^2/NDF : 25528.5/8

Left: 1621.467+/-0.298 χ^2/NDF : 53843.6/17

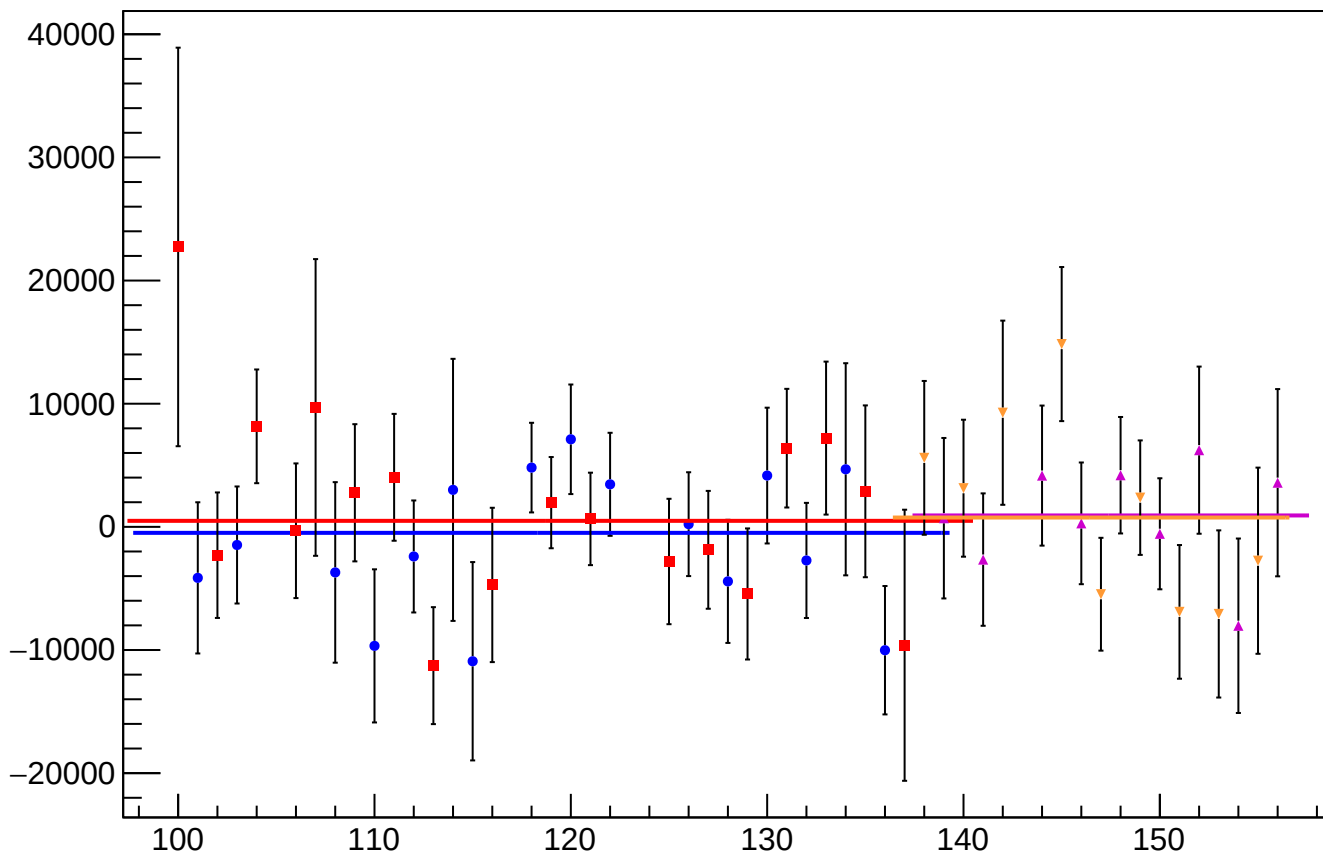
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1497.490+/-0.274 χ^2/NDF : 280759.9/24

Out: 1477.999+/-0.278 χ^2/NDF : 334415.5/26

All: 1487.880+/-0.195 χ^2/NDF : 617667.0/51

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: 757.078+/-1929.895 χ^2/NDF :12.7/8

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: 926.316+/-1880.068 χ^2/NDF :3.7/8

Left: 843.910+/-1346.680 χ^2/NDF : 16.4/17

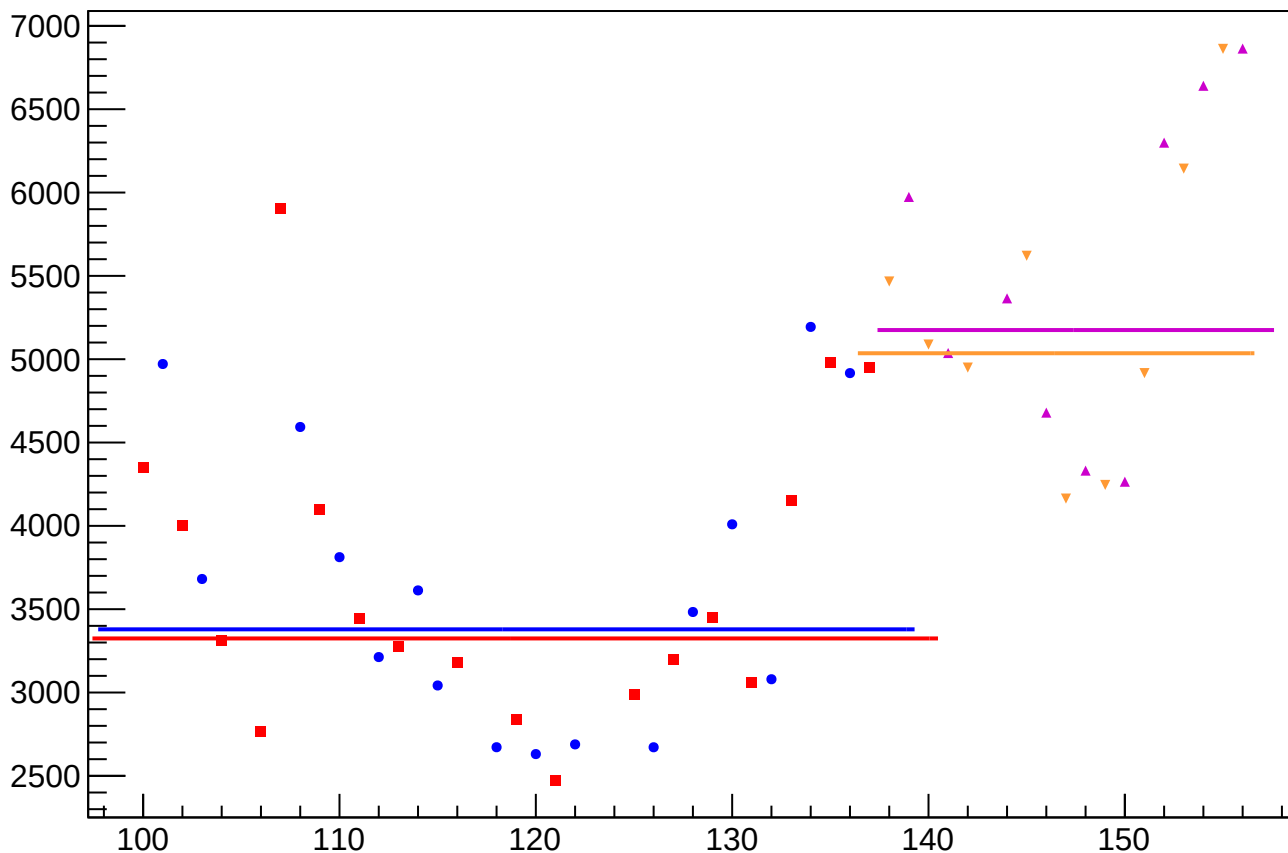
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: -31.957+/-1066.445 χ^2/NDF :20.0/24

Out: 568.952+/-1055.818 χ^2/NDF :31.4/26

All: 271.507+/-750.305 χ^2/NDF : 51.6/51

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: 5035.705+/-1.365 χ^2/NDF : 328690.3/8

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5174.971+/-1.329 χ^2/NDF : 438076.9/8

Left: 5107.159+/-0.952 χ^2/NDF : 772110.7/17

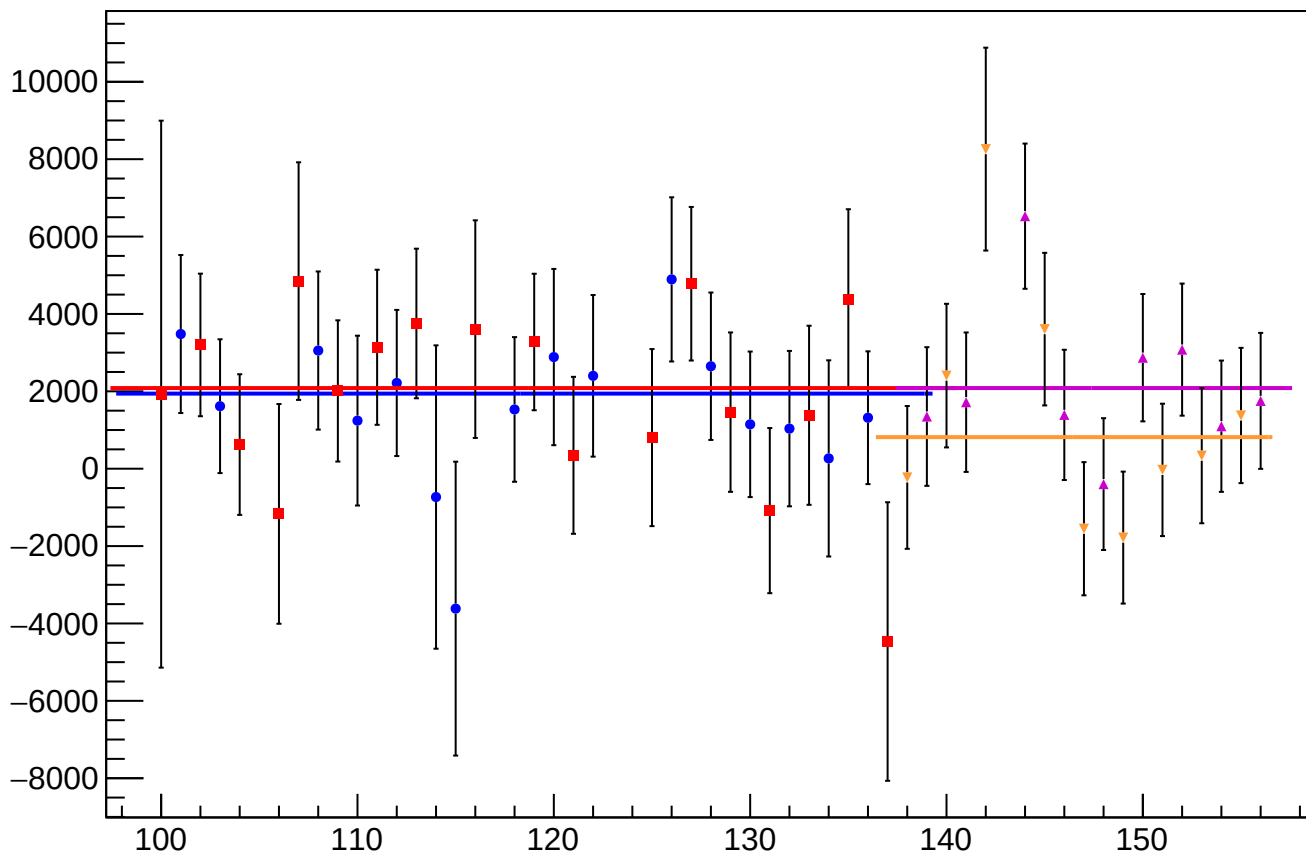
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 3956.944+/-0.754 χ^2/NDF : 2431108.4/24

Out: 3836.632+/-0.747 χ^2/NDF : 1974354.2/26

All: 3896.186+/-0.531 χ^2/NDF : 4418317.4/51

eigen_cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031 $\pm$ 522.174 χ^2 /NDF: 6.9/15

Left Out: 816.531 $\pm$ 612.598 χ^2 /NDF:15.8/8

Right Out: 2084.166 $\pm$ 519.587 χ^2 /NDF: 14.5/17

Left In: 2084.741 $\pm$ 578.878 χ^2 /NDF:9.0/8

Left: 1486.499 $\pm$ 420.744 χ^2 /NDF: 27.1/17

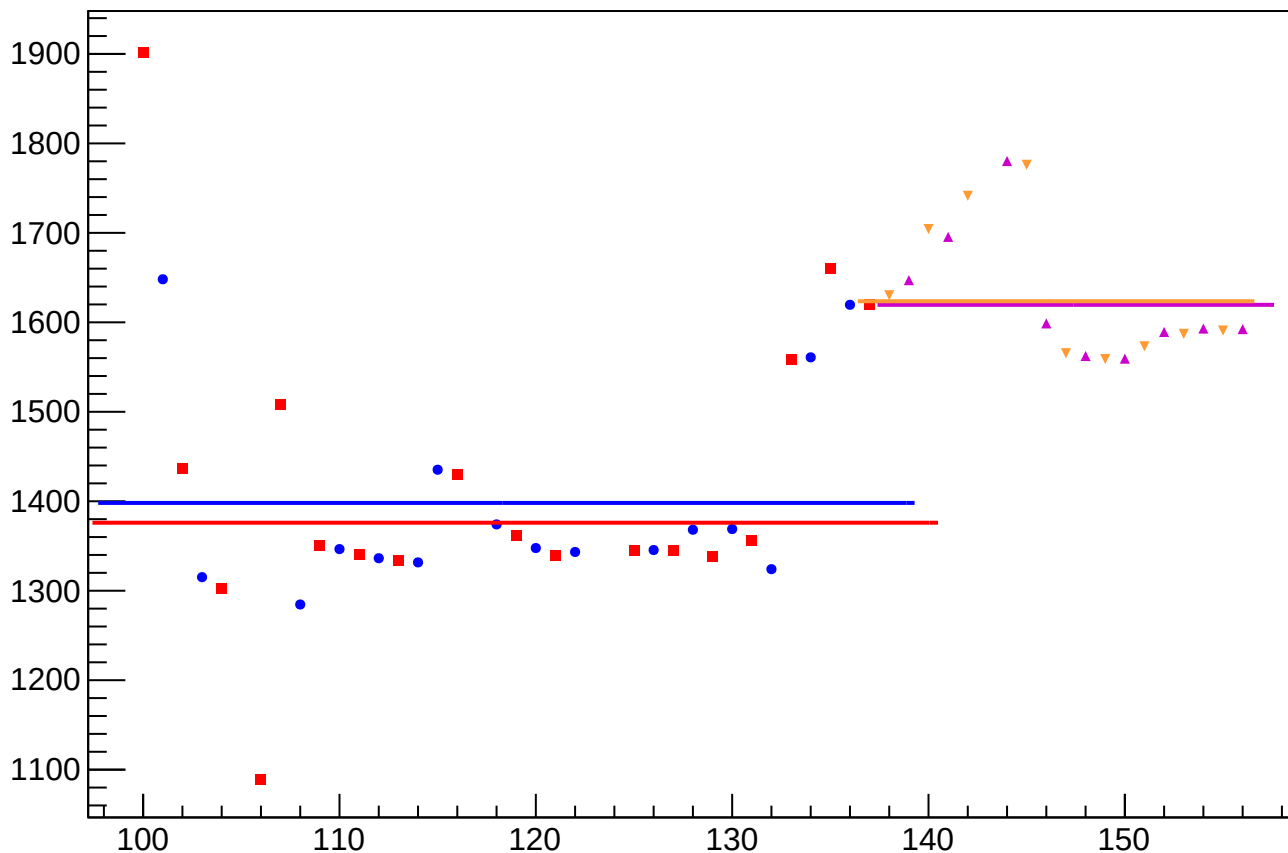
Right: 2012.954 $\pm$ 368.315 χ^2 /NDF: 21.4/33

In: 2005.505 $\pm$ 387.734 χ^2 /NDF:16.0/24

Out: 1553.789 $\pm$ 396.251 χ^2 /NDF:32.7/26

All: 1784.553 $\pm$ 277.132 χ^2 /NDF: 49.4/51

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: 1623.600+/-0.433 χ^2/NDF : 28269.2/8

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1619.562+/-0.409 χ^2/NDF : 25528.5/8

Left: 1621.467+/-0.298 χ^2/NDF : 53843.6/17

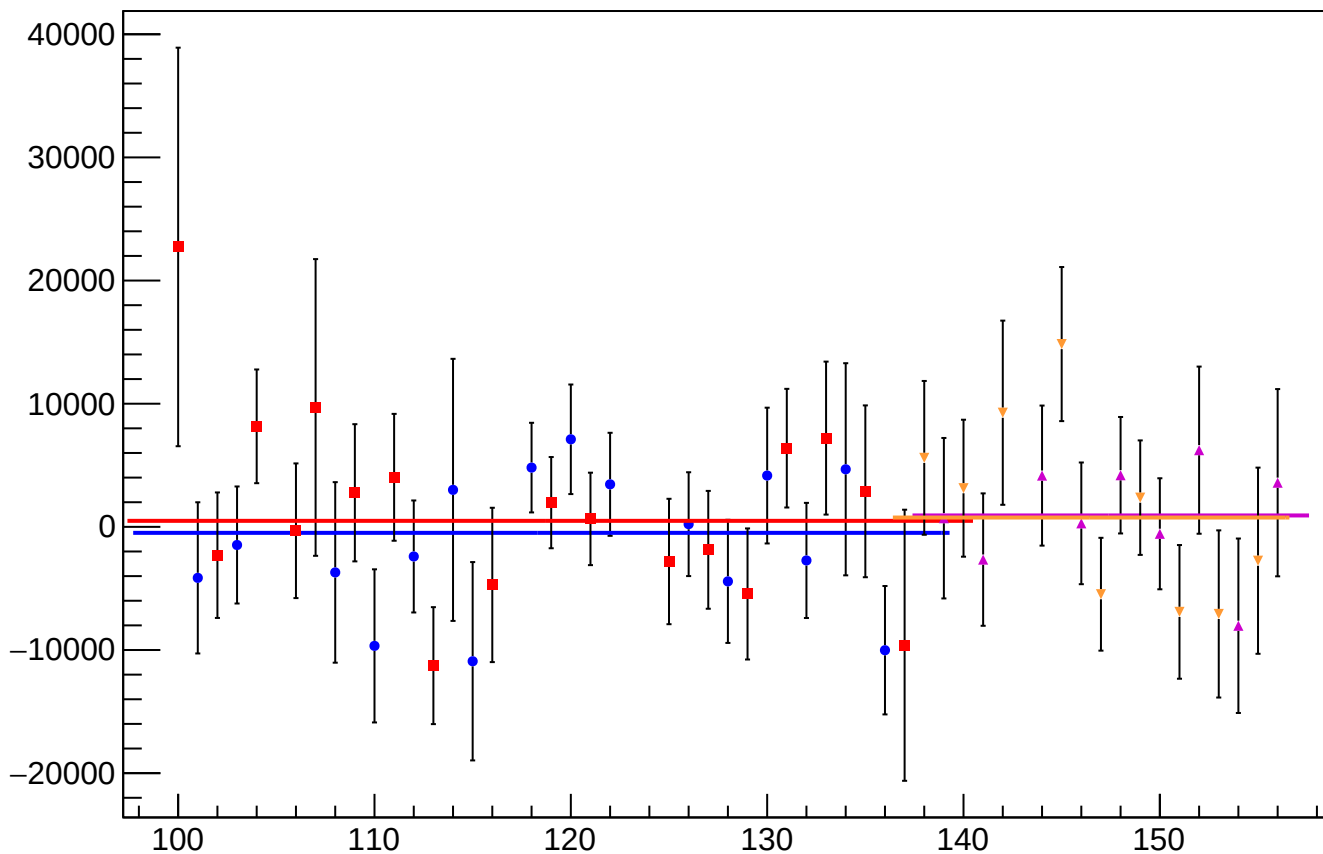
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1497.490+/-0.274 χ^2/NDF : 280759.9/24

Out: 1477.999+/-0.278 χ^2/NDF : 334415.5/26

All: 1487.880+/-0.195 χ^2/NDF : 617667.0/51

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: 757.078+/-1929.895 χ^2/NDF : 12.7/8

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: 926.316+/-1880.068 χ^2/NDF : 3.7/8

Left: 843.910+/-1346.680 χ^2/NDF : 16.4/17

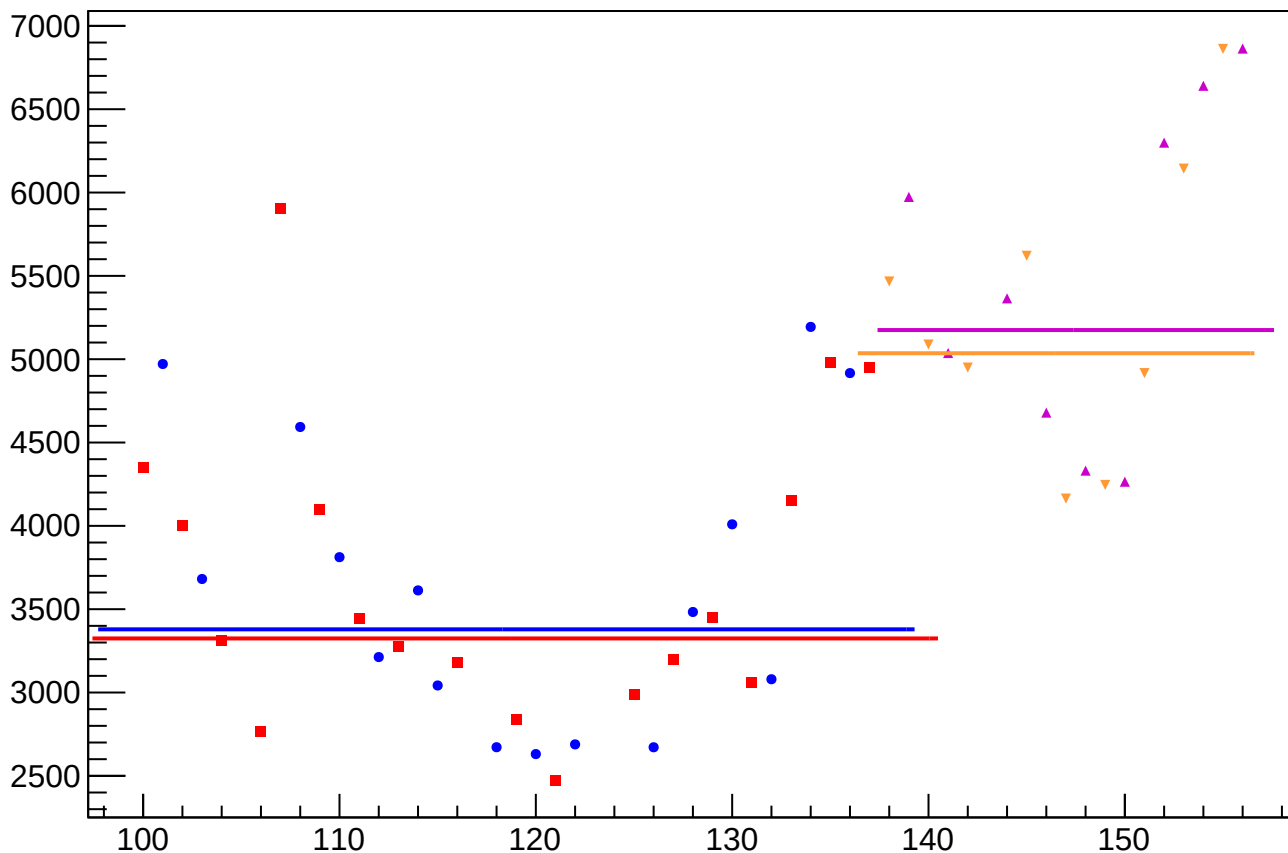
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: -31.957+/-1066.445 χ^2/NDF : 20.0/24

Out: 568.952+/-1055.818 χ^2/NDF : 31.4/26

All: 271.507+/-750.305 χ^2/NDF : 51.6/51

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: 5035.705+/-1.365 χ^2/NDF : 328690.3/8

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5174.971+/-1.329 χ^2/NDF : 438076.9/8

Left: 5107.159+/-0.952 χ^2/NDF : 772110.7/17

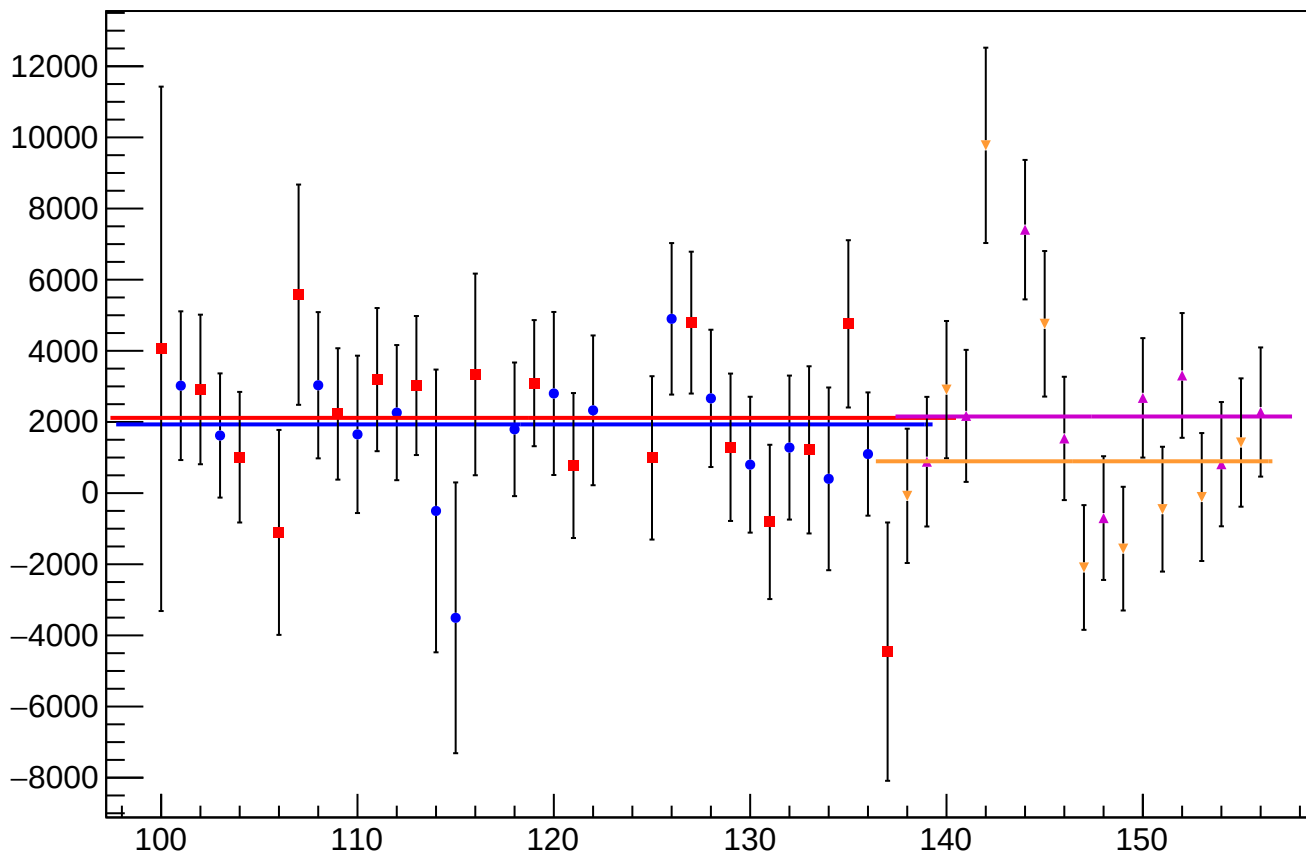
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 3956.944+/-0.754 χ^2/NDF : 2431108.4/24

Out: 3836.632+/-0.747 χ^2/NDF : 1974354.2/26

All: 3896.186+/-0.531 χ^2/NDF : 4418317.4/51

dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1931.537+/-527.135 χ^2/NDF : 6.4/15

Left Out: 894.667+/-630.221 χ^2/NDF :21.3/8

Right Out: 2115.195+/-528.802 χ^2/NDF : 13.2/17

Left In: 2153.863+/-594.859 χ^2/NDF :11.6/8

Left: 1560.582+/-432.590 χ^2/NDF : 35.0/17

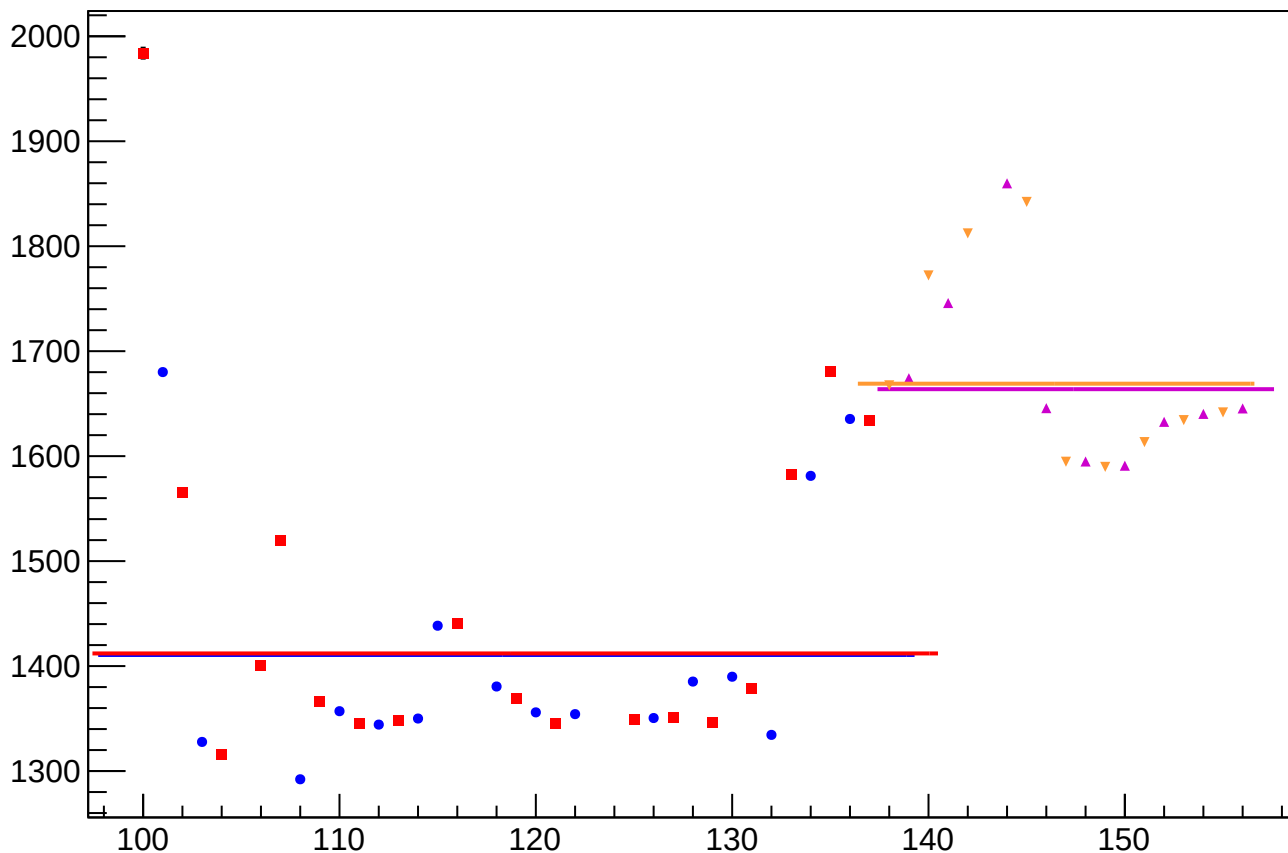
Right: 2023.076+/-373.329 χ^2/NDF : 19.6/33

In: 2029.329+/-394.522 χ^2/NDF :18.1/24

Out: 1610.920+/-405.091 χ^2/NDF :36.7/26

All: 1825.654+/-282.632 χ^2/NDF : 55.3/51

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: 1669.028 $\pm$ 0.446 χ^2/NDF : 36447.9/8

Right Out: 1412.048 $\pm$ 0.373 χ^2/NDF : 89704.5/17

Left In: 1663.799 $\pm$ 0.421 χ^2/NDF : 32317.1/8

Left: 1666.263 $\pm$ 0.306 χ^2/NDF : 68837.7/17

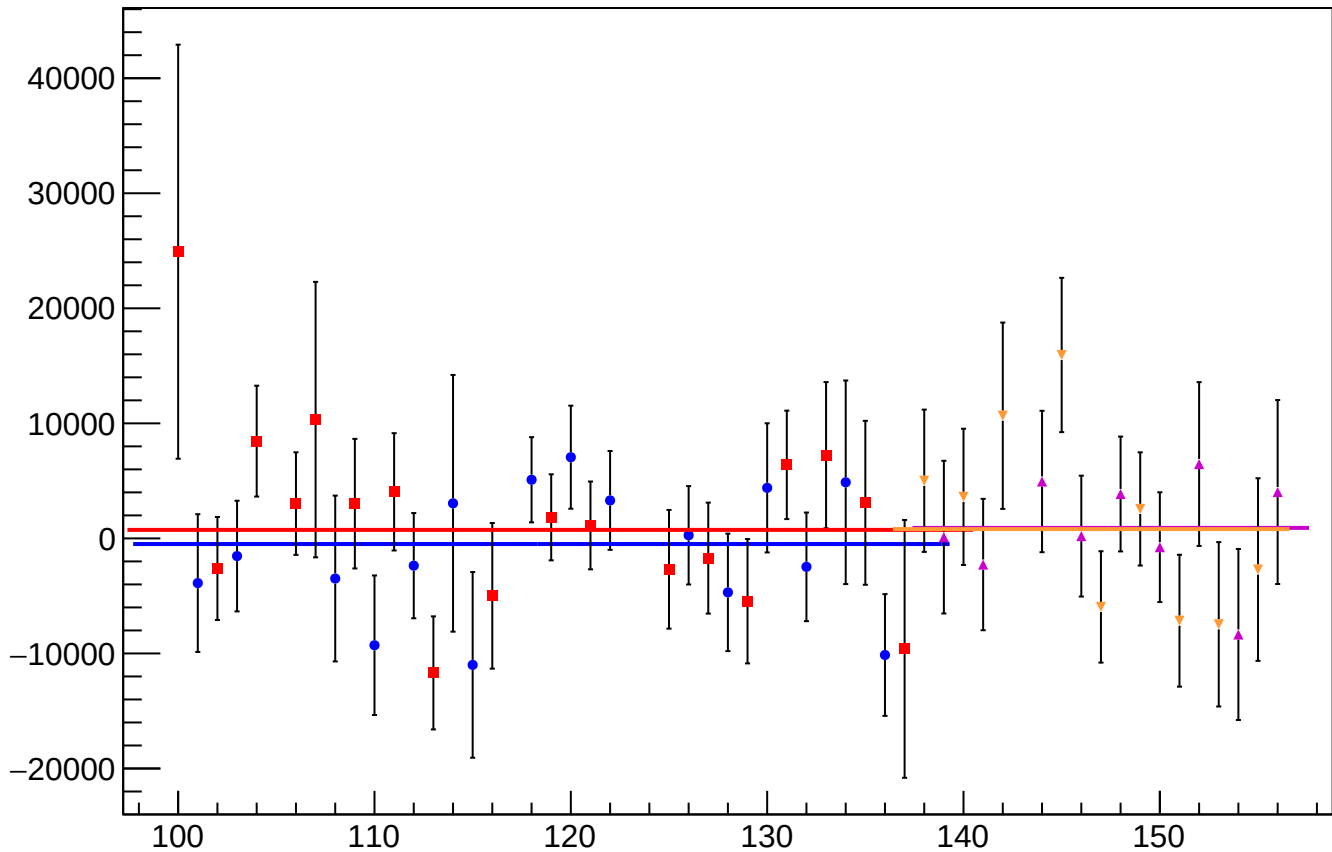
Right: 1411.321 $\pm$ 0.264 χ^2/NDF : 188862.1/33

In: 1521.969 $\pm$ 0.279 χ^2/NDF : 334440.8/24

Out: 1517.889 $\pm$ 0.286 χ^2/NDF : 321729.4/26

All: 1519.980 $\pm$ 0.200 χ^2/NDF : 656274.6/51

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: 808.349 $\pm$ 2032.562 χ^2 /NDF:12.8/8

Right Out: 740.592 $\pm$ 1247.947 χ^2 /NDF: 19.2/17

Left In: 914.180 $\pm$ 1985.622 χ^2 /NDF:3.6/8

Left: 862.501 $\pm$ 1420.352 χ^2 /NDF: 16.4/17

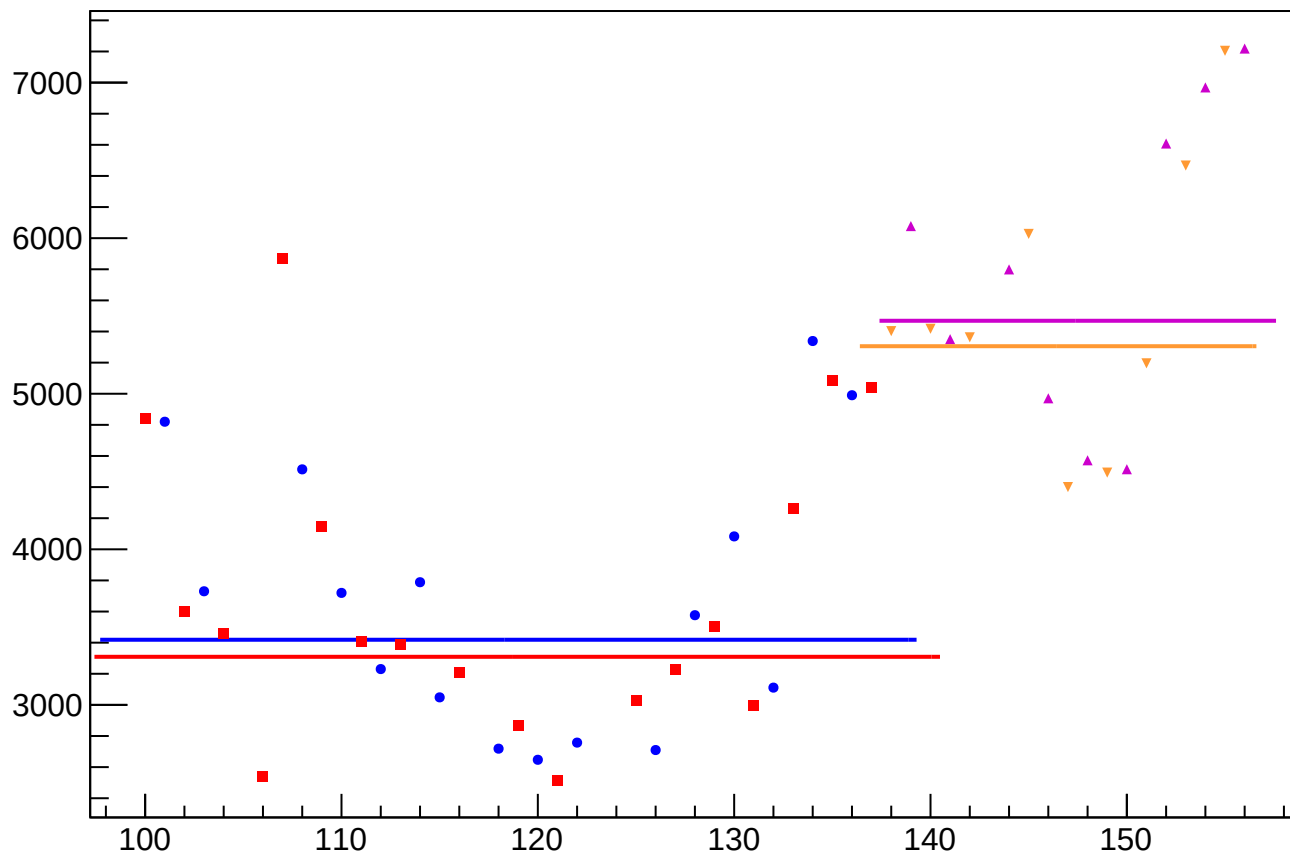
Right: 154.802 $\pm$ 903.143 χ^2 /NDF: 35.5/33

In: -64.341 $\pm$ 1092.706 χ^2 /NDF:19.7/24

Out: 759.142 $\pm$ 1063.492 χ^2 /NDF:32.0/26

All: 358.555 $\pm$ 762.121 χ^2 /NDF: 52.0/51

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: 5305.526+/-1.437 χ^2/NDF : 317096.6/8

Right Out: 3309.112+/-0.882 χ^2/NDF : 571940.6/17

Left In: 5469.059+/-1.404 χ^2/NDF : 414462.4/8

Left: 5389.203+/-1.004 χ^2/NDF : 738183.4/17

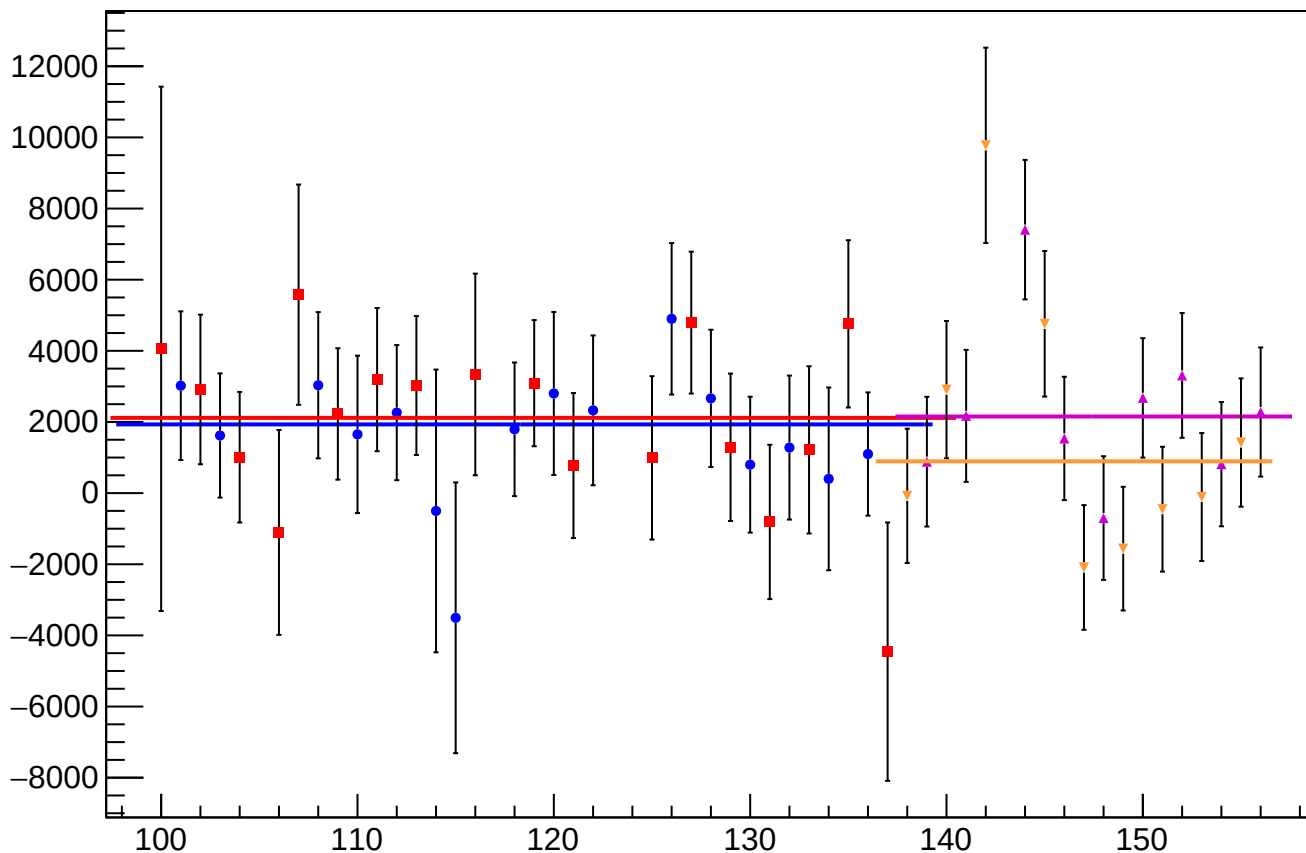
Right: 3361.304+/-0.639 χ^2/NDF : 1300501.2/33

In: 4039.632+/-0.773 χ^2/NDF : 2622395.1/24

Out: 3855.664+/-0.752 χ^2/NDF : 2290300.3/26

All: 3945.156+/-0.539 χ^2/NDF : 4941808.2/51

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: 894.667 $\pm$ 630.222 χ^2 /NDF:21.3/8

Right Out: 2115.195 $\pm$ 528.802 χ^2 /NDF: 13.2/17

Left In: 2153.864 $\pm$ 594.859 χ^2 /NDF:11.6/8

Left: 1560.582 $\pm$ 432.590 χ^2 /NDF: 35.0/17

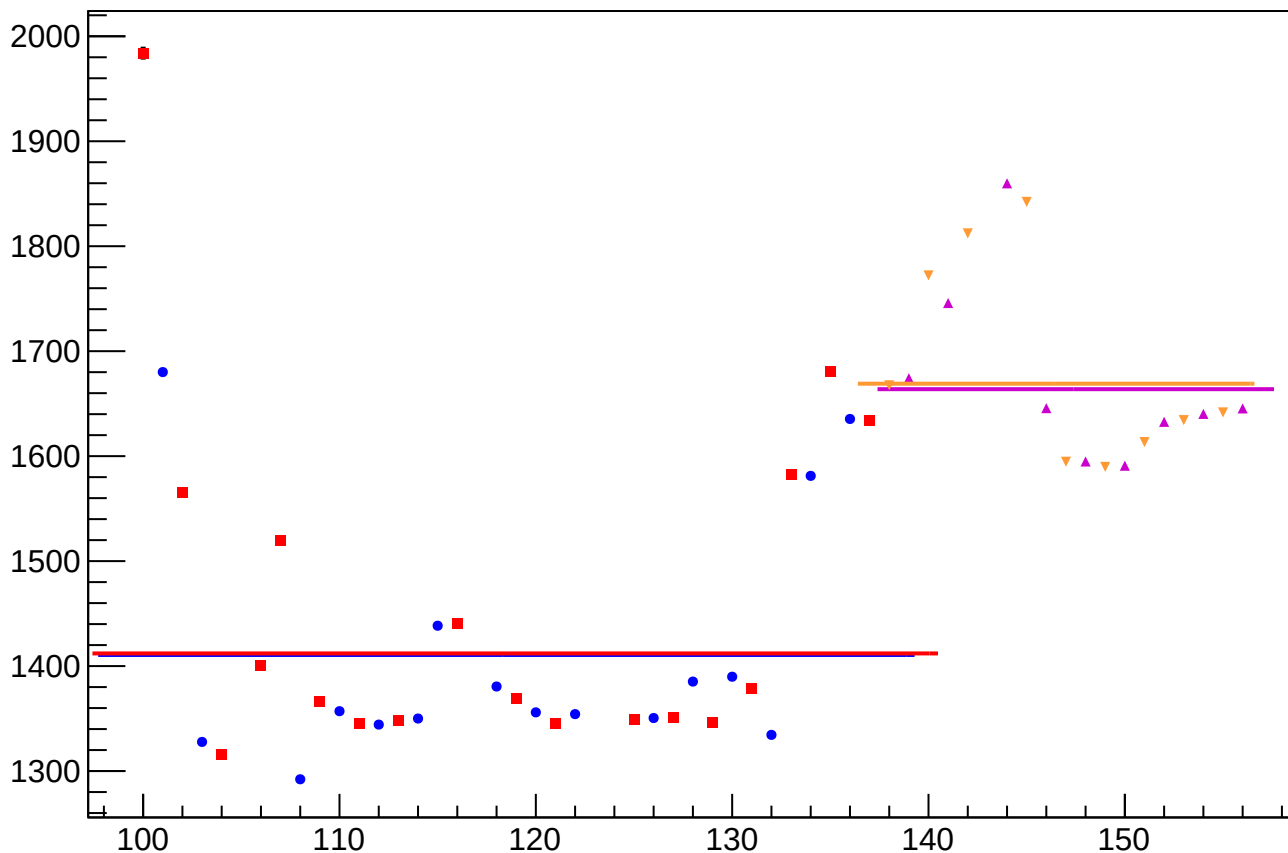
Right: 2023.076 $\pm$ 373.329 χ^2 /NDF: 19.6/33

In: 2029.330 $\pm$ 394.522 χ^2 /NDF:18.1/24

Out: 1610.921 $\pm$ 405.091 χ^2 /NDF:36.7/26

All: 1825.655 $\pm$ 282.632 χ^2 /NDF: 55.3/51

eigen_dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1410.595+/-0.373 χ^2/NDF : 99150.0/15

Left Out: 1669.029+/-0.446 χ^2/NDF : 36448.5/8

Right Out: 1412.048+/-0.373 χ^2/NDF : 89704.6/17

Left In: 1663.801+/-0.421 χ^2/NDF : 32317.5/8

Left: 1666.264+/-0.306 χ^2/NDF : 68838.8/17

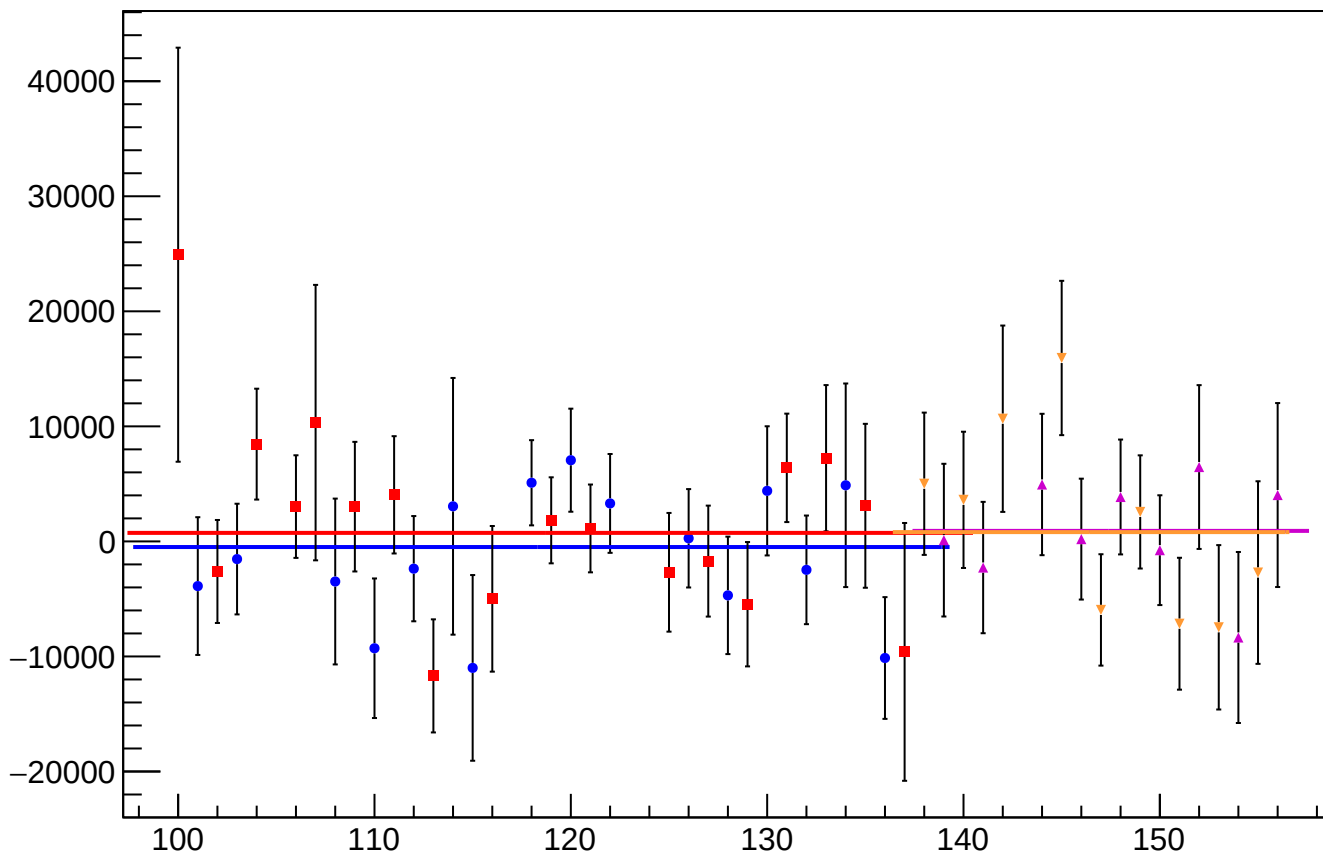
Right: 1411.321+/-0.264 χ^2/NDF : 188862.2/33

In: 1521.970+/-0.279 χ^2/NDF : 334443.0/24

Out: 1517.889+/-0.286 χ^2/NDF : 321732.1/26

All: 1519.980+/-0.200 χ^2/NDF : 656279.4/51

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: 808.342+/-2032.565 χ^2/NDF :12.8/8

Right Out: 740.594+/-1247.944 χ^2/NDF : 19.2/17

Left In: 914.181+/-1985.625 χ^2/NDF :3.6/8

Left: 862.498+/-1420.354 χ^2/NDF : 16.4/17

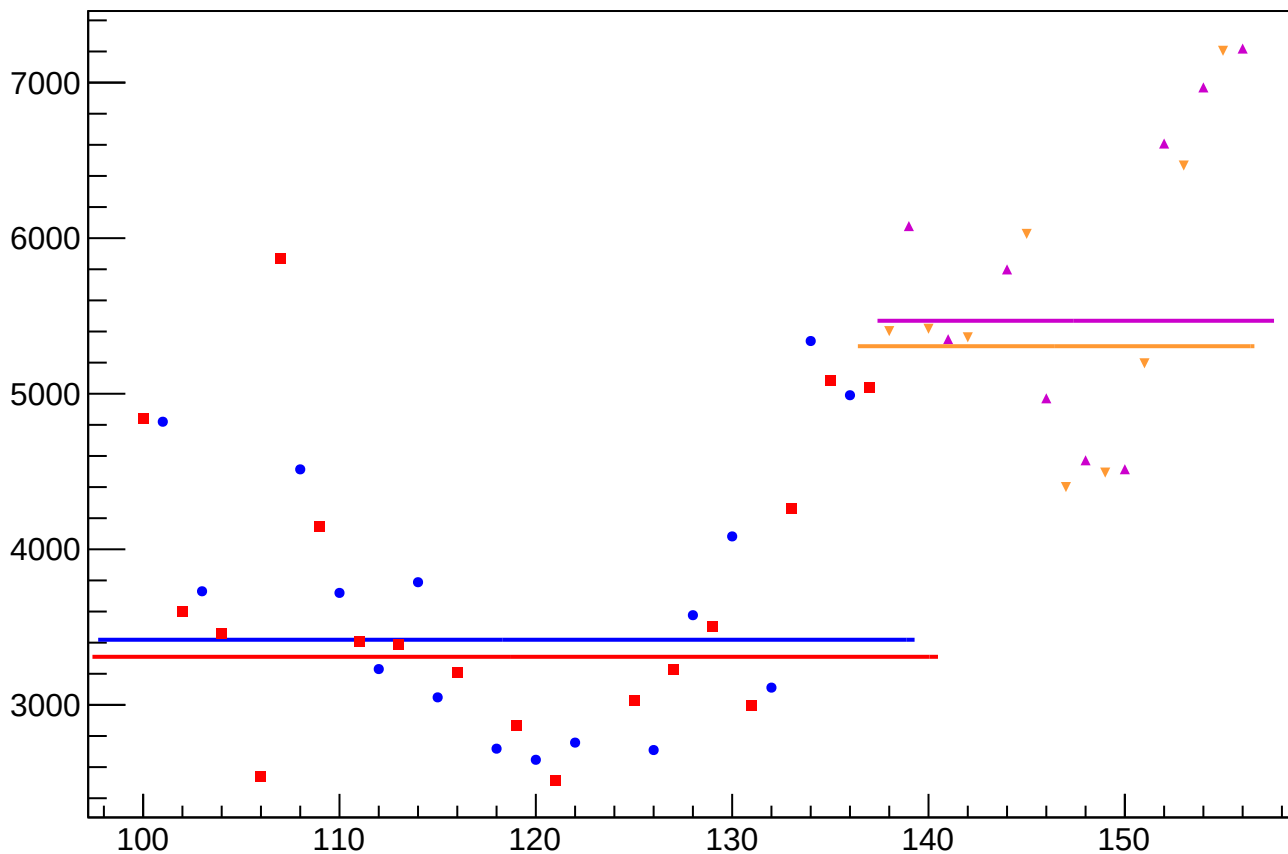
Right: 154.807+/-903.141 χ^2/NDF : 35.5/33

In: -64.338+/-1092.704 χ^2/NDF :19.7/24

Out: 759.141+/-1063.490 χ^2/NDF :32.0/26

All: 358.557+/-762.120 χ^2/NDF : 52.0/51

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: 5305.533+/-1.437 χ^2/NDF : 317099.2/8

Right Out: 3309.102+/-0.882 χ^2/NDF : 571944.5/17

Left In: 5469.065+/-1.404 χ^2/NDF : 414464.9/8

Left: 5389.209+/-1.004 χ^2/NDF : 738188.5/17

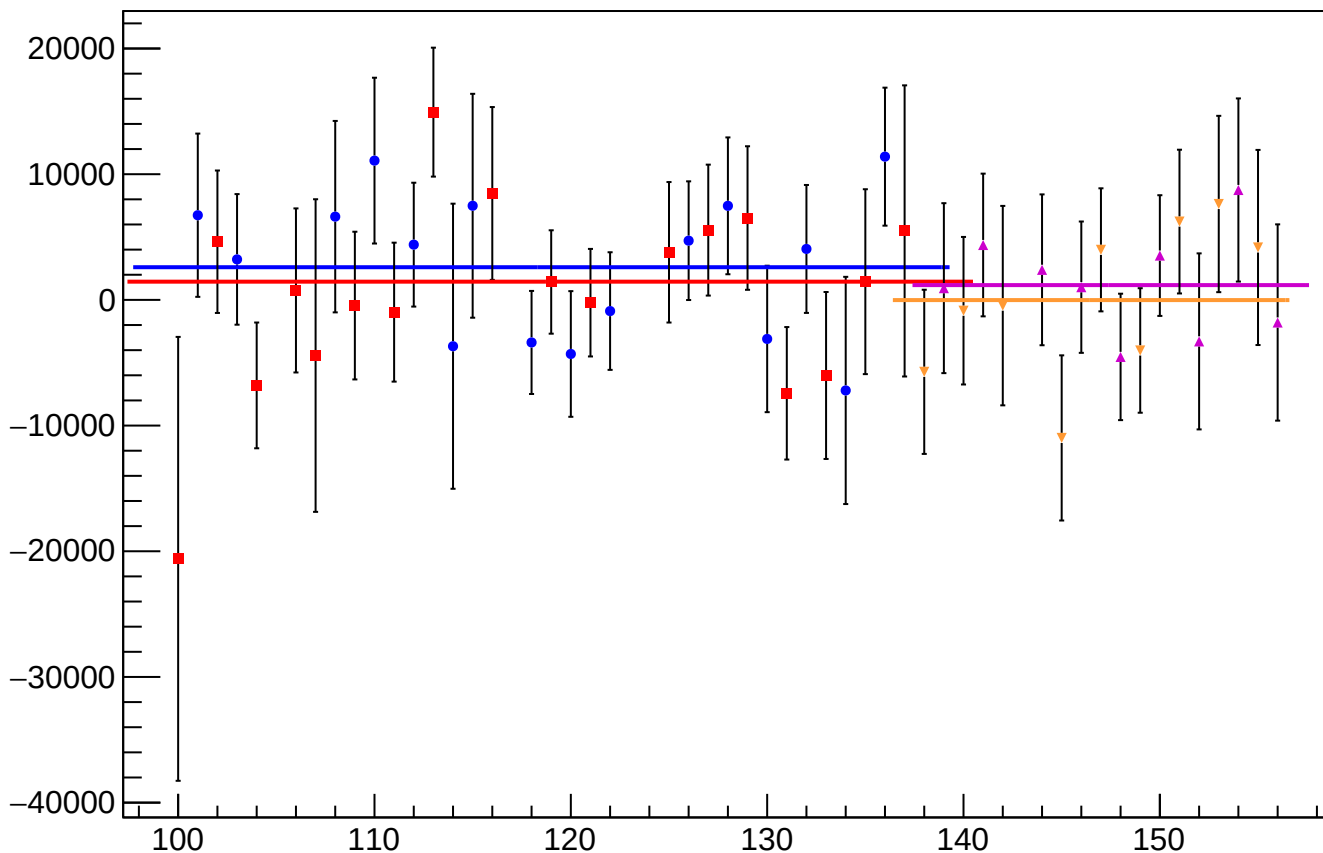
Right: 3361.294+/-0.639 χ^2/NDF : 1300513.6/33

In: 4039.622+/-0.773 χ^2/NDF : 2622431.7/24

Out: 3855.655+/-0.752 χ^2/NDF : 2290329.3/26

All: 3945.147+/-0.539 χ^2/NDF : 4941873.6/51

asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 2599.622+/-1414.499 χ^2/NDF : 13.5/15

Left Out: -16.064+/-2034.849 χ^2/NDF : 7.6/8

Right Out: 1450.418+/-1382.818 χ^2/NDF : 19.0/17

Left In: 1176.068+/-1977.048 χ^2/NDF : 3.5/8

Left: 597.174+/-1417.978 χ^2/NDF : 11.3/17

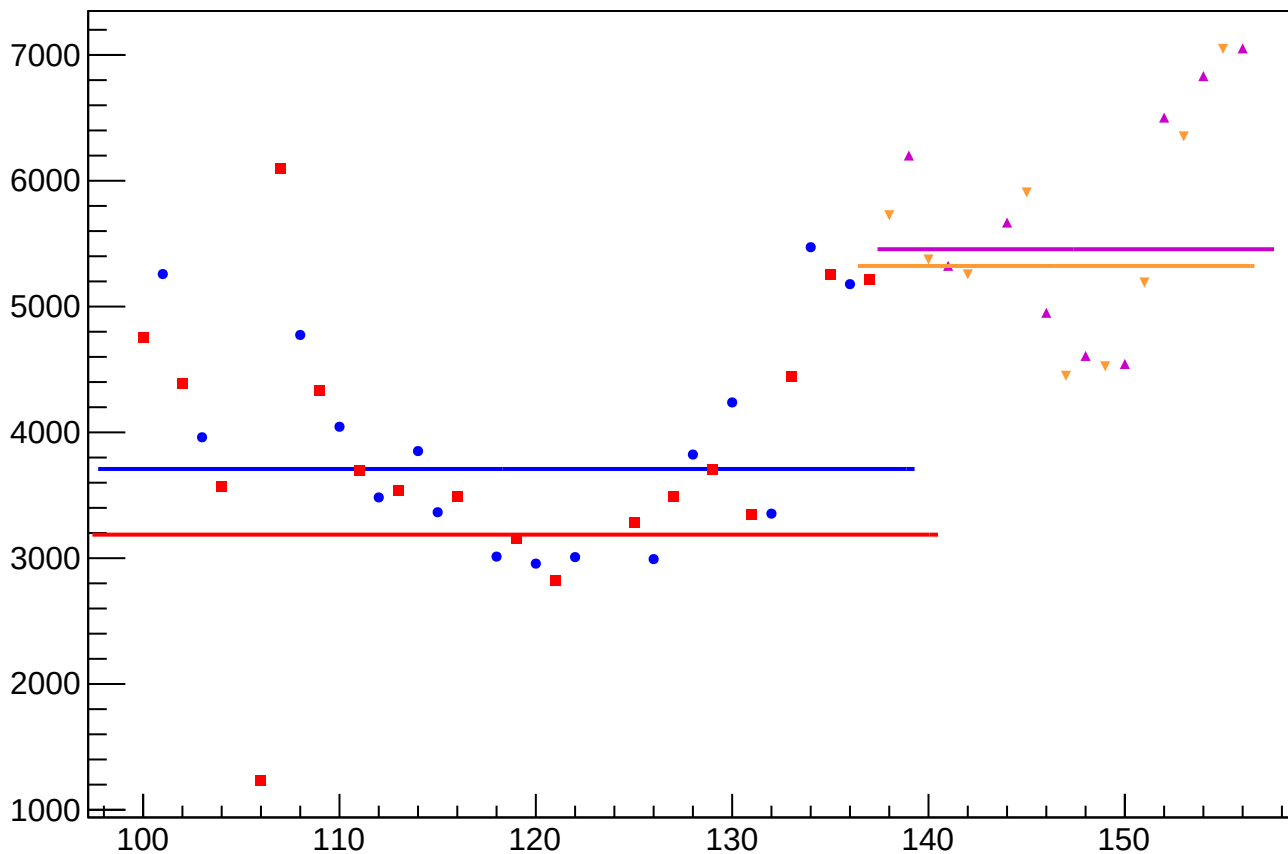
Right: 2012.006+/-988.811 χ^2/NDF : 32.9/33

In: 2117.645+/-1150.386 χ^2/NDF : 17.3/24

Out: 987.130+/-1143.719 χ^2/NDF : 27.0/26

All: 1549.102+/-811.078 χ^2/NDF : 44.8/51

asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 3709.155+/-1.000 χ^2/NDF : 610637.3/15

Left Out: 5322.867+/-1.439 χ^2/NDF : 282101.0/8

Right Out: 3187.191+/-0.896 χ^2/NDF : 1610818.1/17

Left In: 5455.783+/-1.398 χ^2/NDF : 375112.4/8

Left: 5391.240+/-1.003 χ^2/NDF : 661603.0/17

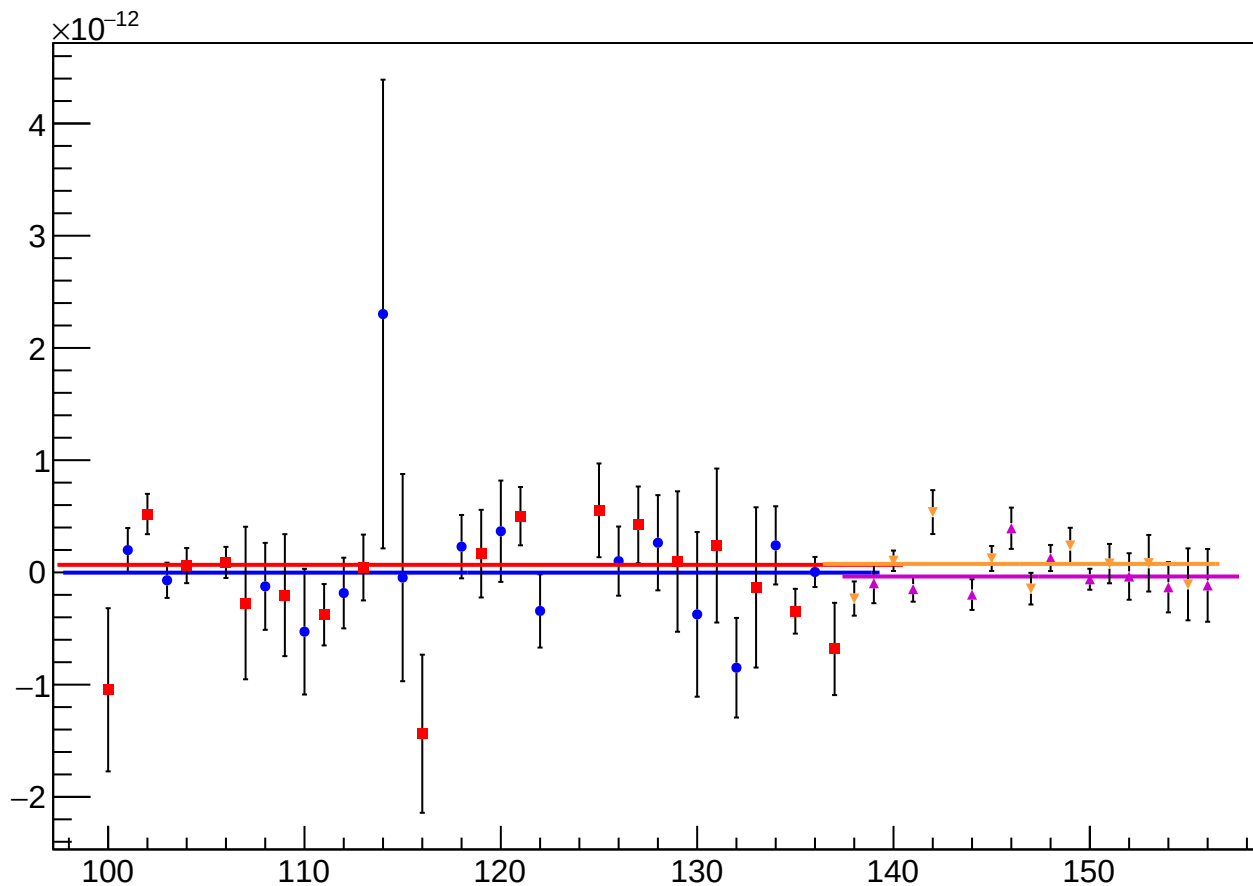
Right: 3419.452+/-0.667 χ^2/NDF : 2372609.3/33

In: 4300.514+/-0.813 χ^2/NDF : 2018223.8/24

Out: 3783.532+/-0.760 χ^2/NDF : 3480859.6/26

All: 4024.592+/-0.555 χ^2/NDF : 5714662.6/51

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 :13.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 29.5/17

Left In: -0.000+/-0.000 χ^2/NDF :10.3/8

Left: 0.000+/-0.000 χ^2/NDF : 26.8/17

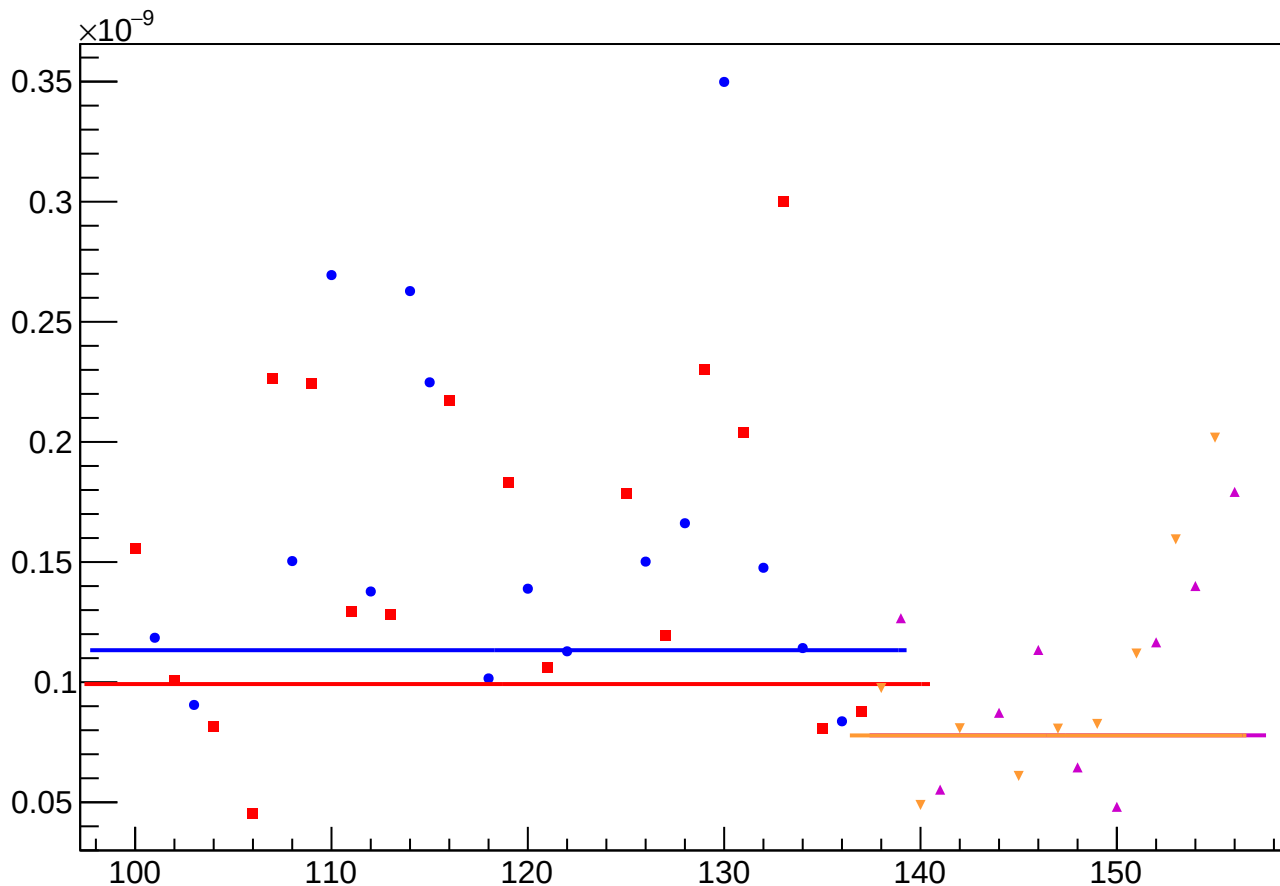
Right: 0.000+/-0.000 χ^2/NDF : 41.1/33

In: -0.000+/-0.000 χ^2/NDF :21.5/24

Out: 0.000+/-0.000 χ^2/NDF :43.3/26

All: 0.000+/-0.000 χ^2/NDF : 68.0/51

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 : 868658.7/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1100854.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 964451.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1833110.9/17

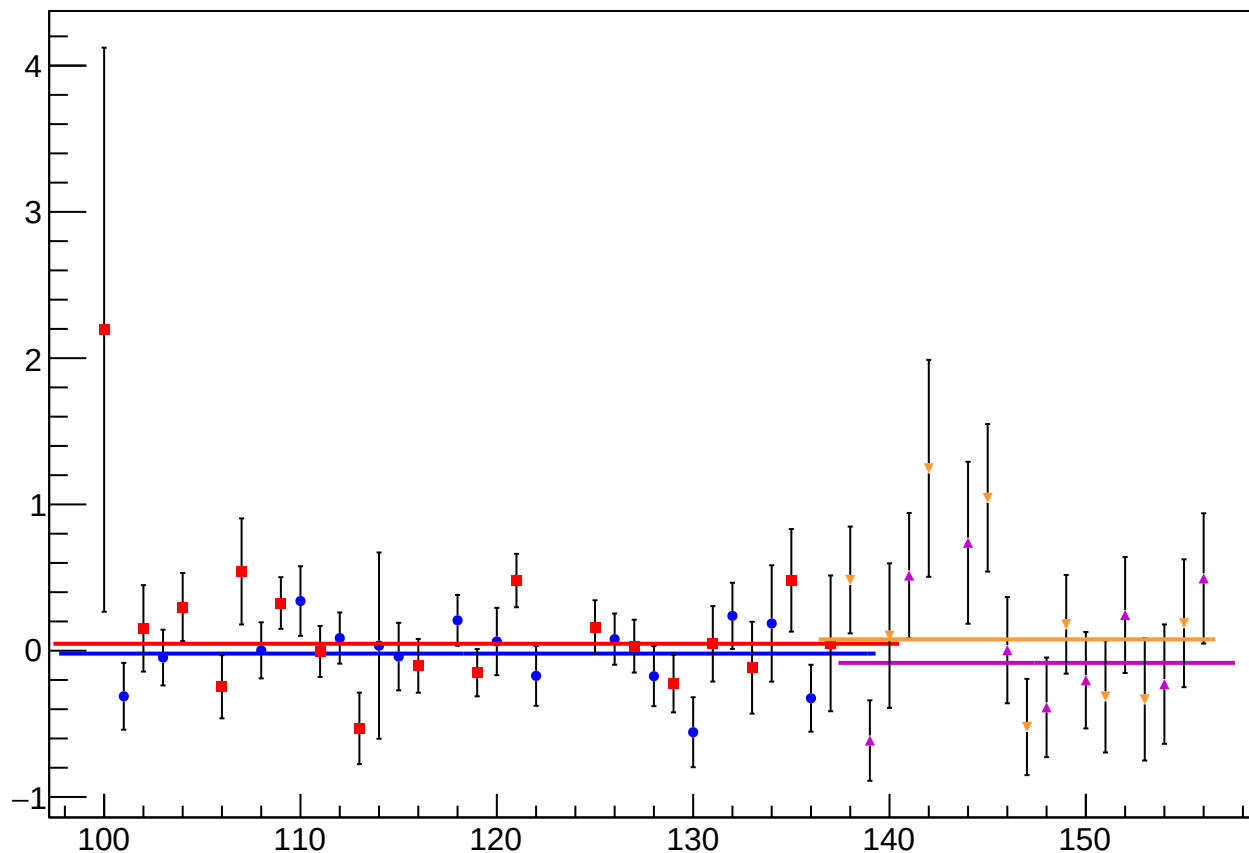
Right: 0.000+/-0.000 χ^2/NDF : 1799459.5/33

In: 0.000+/-0.000 χ^2/NDF : 1966312.2/24

Out: 0.000+/-0.000 χ^2/NDF : 2106019.2/26

All: 0.000+/-0.000 χ^2/NDF : 4080844.1/51

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: 0.078 ± 0.137 χ^2/NDF : 12.9/8

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.083 ± 0.124 χ^2/NDF : 11.4/8

Left: -0.011 ± 0.092 χ^2/NDF : 25.0/17

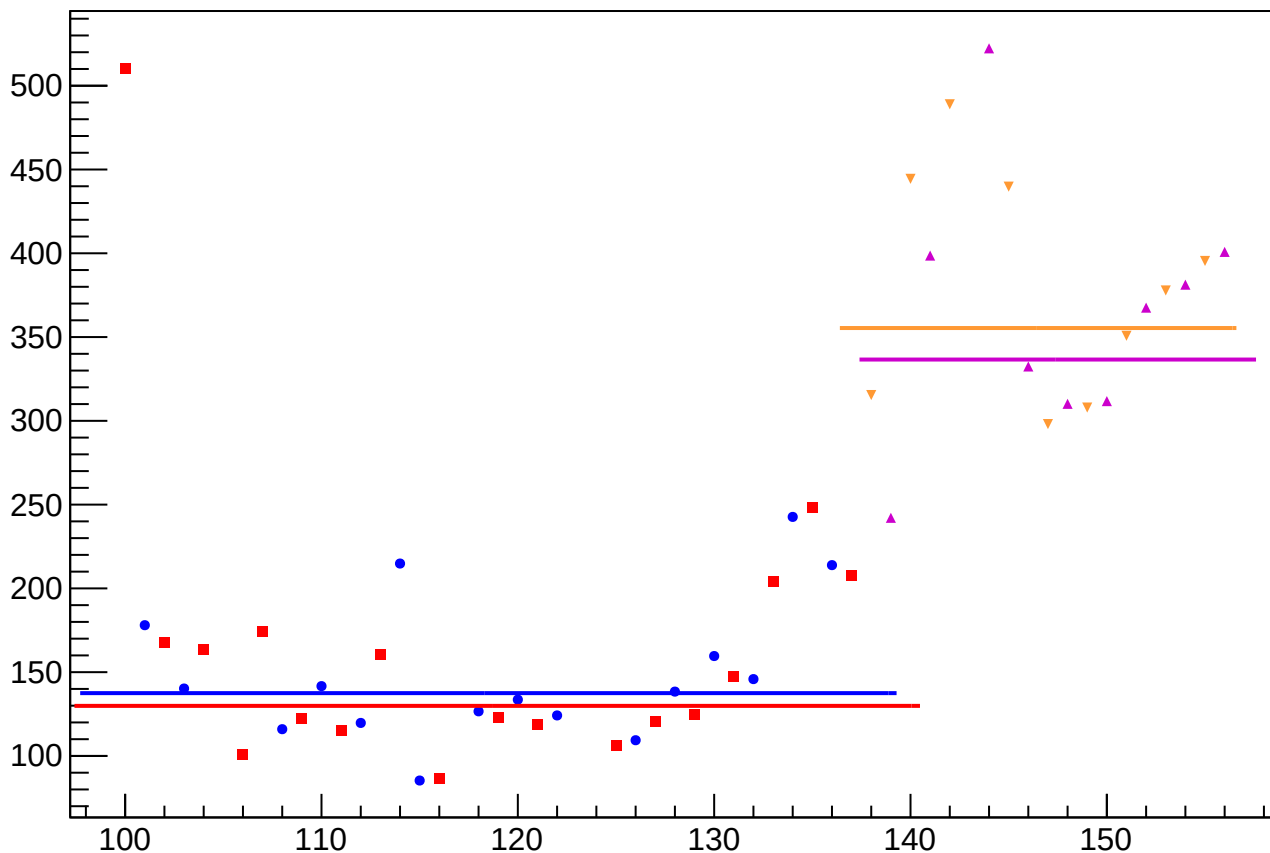
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.030 ± 0.050 χ^2/NDF : 27.6/24

Out: 0.052 ± 0.049 χ^2/NDF : 39.2/26

All: 0.011 ± 0.035 χ^2/NDF : 68.2/51

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692947.9/15

Left Out: 355.390 $\pm$ 0.097 χ^2 /NDF: 332932.1/8

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833983.9/17

Left In: 336.582 $\pm$ 0.088 χ^2 /NDF: 604567.5/8

Left: 345.058 $\pm$ 0.065 χ^2 /NDF: 958152.8/17

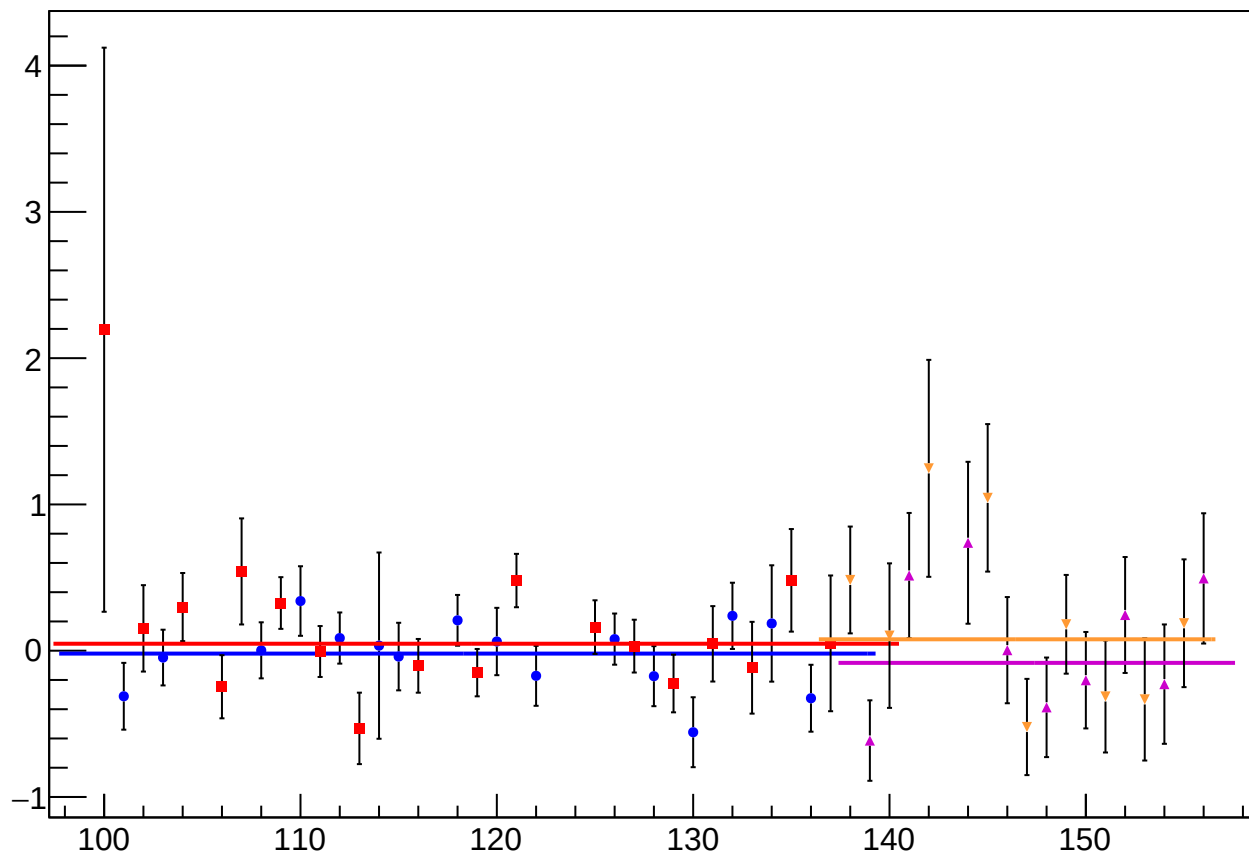
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547246.7/33

In: 169.328 $\pm$ 0.035 χ^2 /NDF: 5611642.6/24

Out: 158.691 $\pm$ 0.035 χ^2 /NDF: 5881018.4/26

All: 163.938 $\pm$ 0.025 χ^2 /NDF: 11539107.1/51

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: 0.078 ± 0.137 $\chi^2/\text{NDF}: 12.9/8$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.083 ± 0.124 $\chi^2/\text{NDF}: 11.4/8$

Left: -0.011 ± 0.092 $\chi^2/\text{NDF}: 25.0/17$

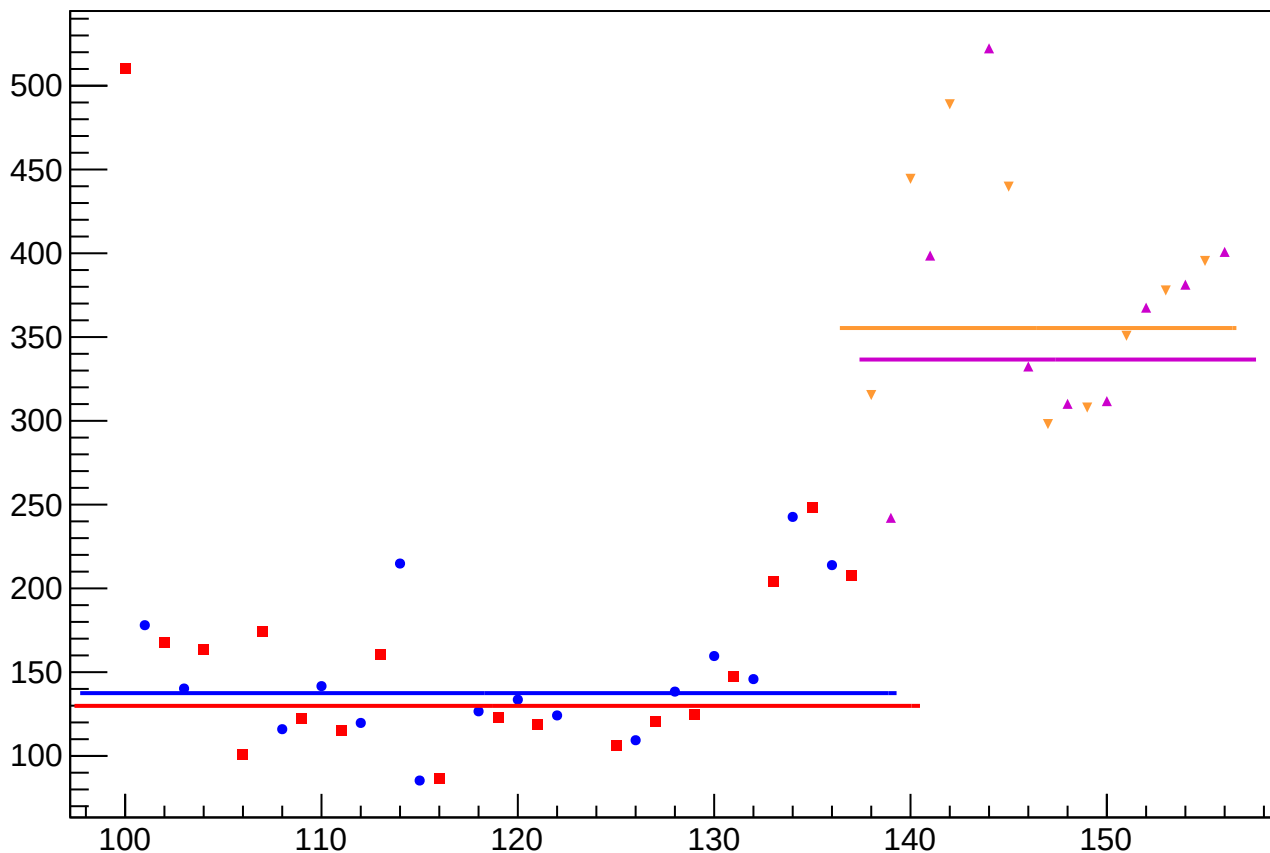
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.030 ± 0.050 $\chi^2/\text{NDF}: 27.6/24$

Out: 0.052 ± 0.049 $\chi^2/\text{NDF}: 39.2/26$

All: 0.011 ± 0.035 $\chi^2/\text{NDF}: 68.2/51$

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: 355.390+/-0.097 χ^2/NDF :332932.1/8

Right Out: 129.887+/-0.037 χ^2/NDF : 833983.9/17

Left In: 336.582+/-0.088 χ^2/NDF :604567.5/8

Left: 345.058+/-0.065 χ^2/NDF : 958152.8/17

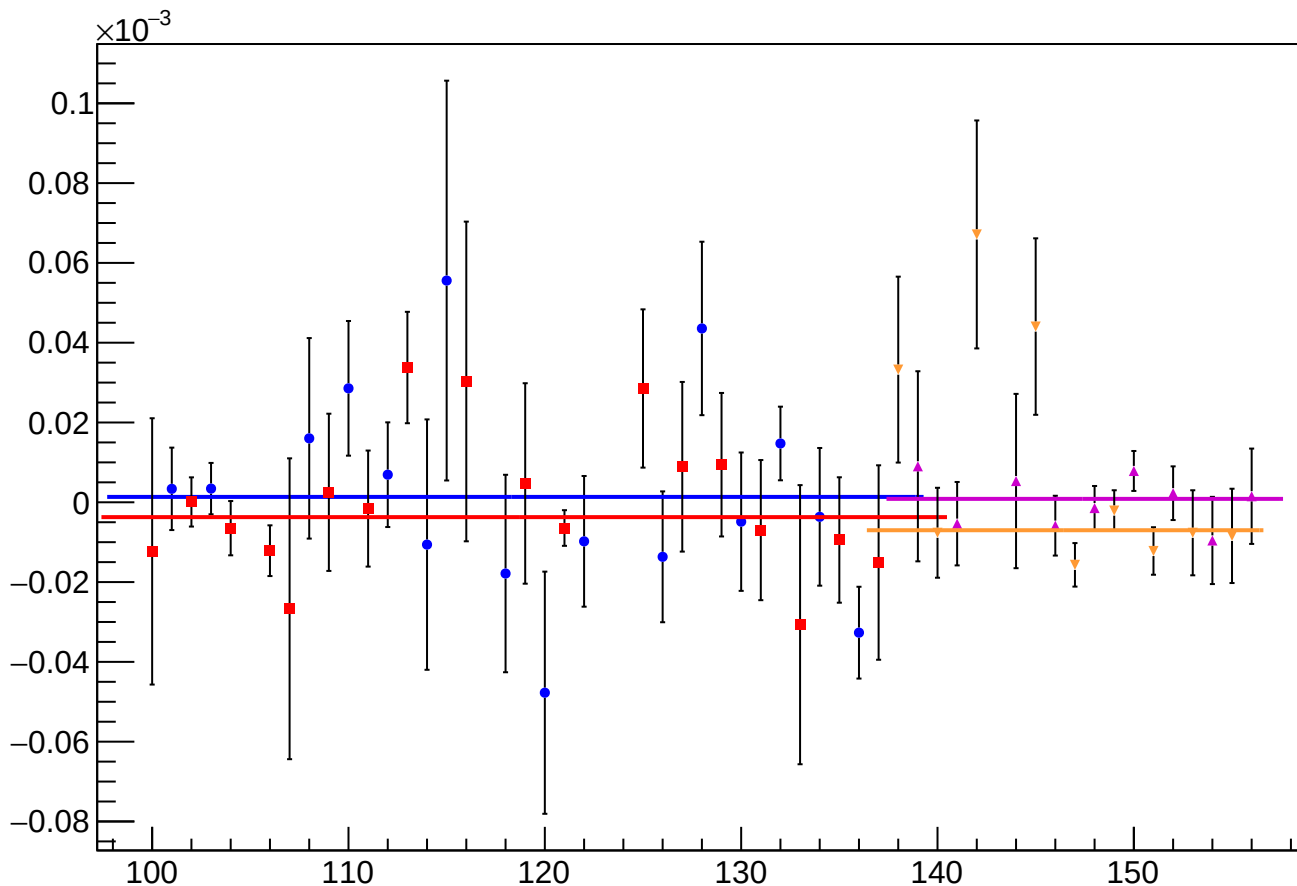
Right: 133.568+/-0.027 χ^2/NDF : 1547246.7/33

In: 169.328+/-0.035 χ^2/NDF :5611642.6/24

Out: 158.691+/-0.035 χ^2/NDF :5881018.4/26

All: 163.938+/-0.025 χ^2/NDF : 11539107.1/53

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:19.3/8

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.8/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:4.4/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 27.9/17

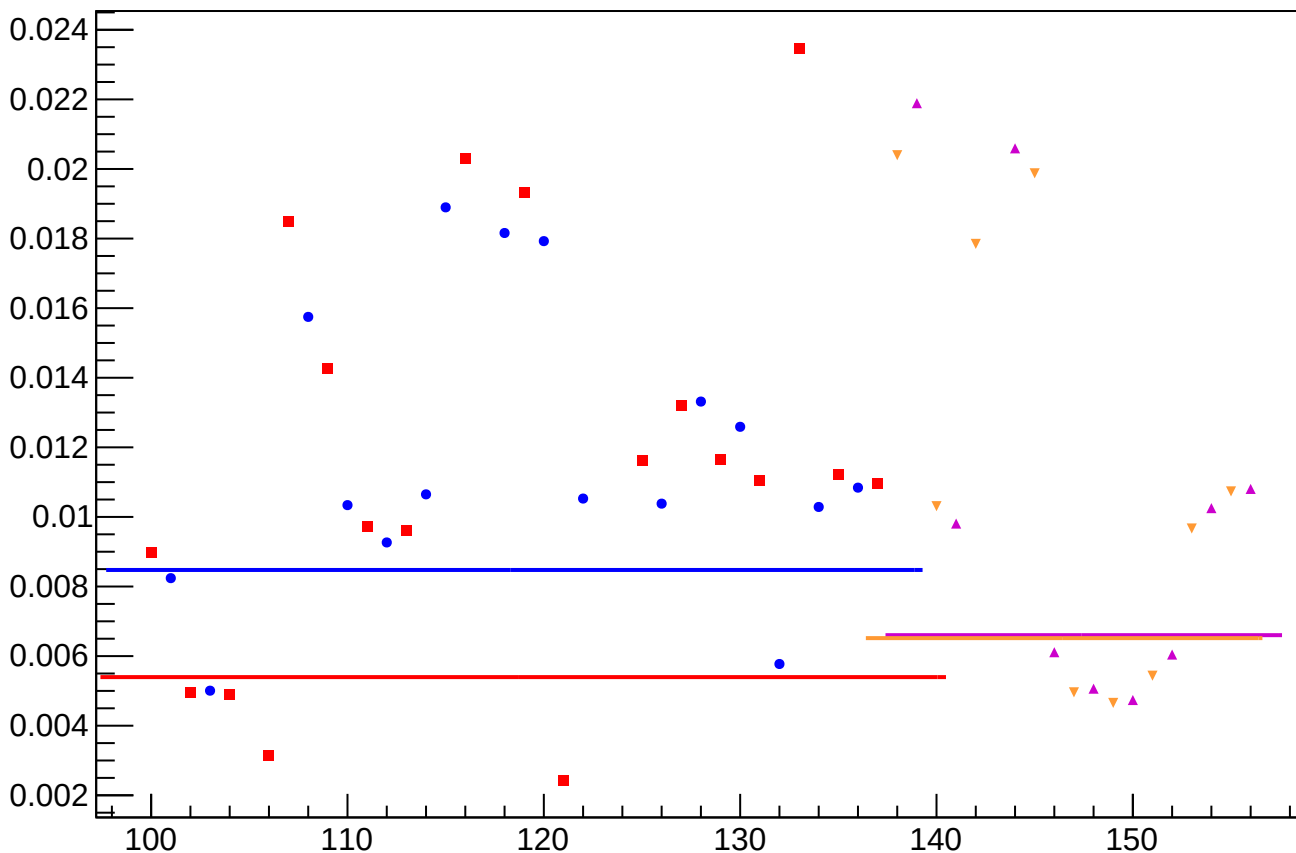
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.1/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:28.3/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:35.8/26

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 69.1/51

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: 0.007+/-0.000 χ^2/NDF : 2905569.4/8

Right Out: 0.005+/-0.000 χ^2/NDF : 4909074.3/17

Left In: 0.007+/-0.000 χ^2/NDF : 2756828.1/8

Left: 0.007+/-0.000 χ^2/NDF : 5663376.2/17

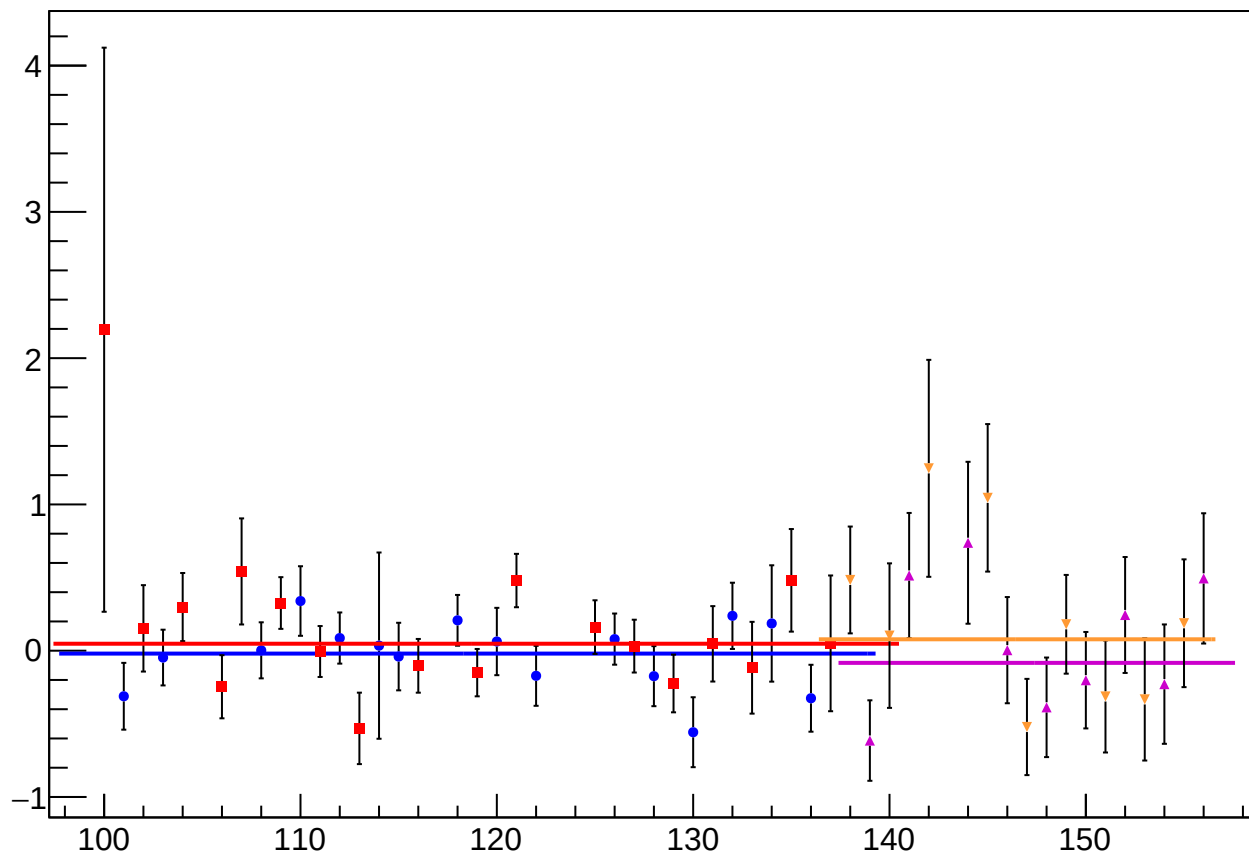
Right: 0.006+/-0.000 χ^2/NDF : 7872620.7/33

In: 0.007+/-0.000 χ^2/NDF : 5052518.9/24

Out: 0.006+/-0.000 χ^2/NDF : 7992416.1/26

All: 0.007+/-0.000 χ^2/NDF : 13538011.9/51

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: 0.078 ± 0.137 $\chi^2/\text{NDF}: 12.9/8$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.083 ± 0.124 $\chi^2/\text{NDF}: 11.4/8$

Left: -0.011 ± 0.092 $\chi^2/\text{NDF}: 25.0/17$

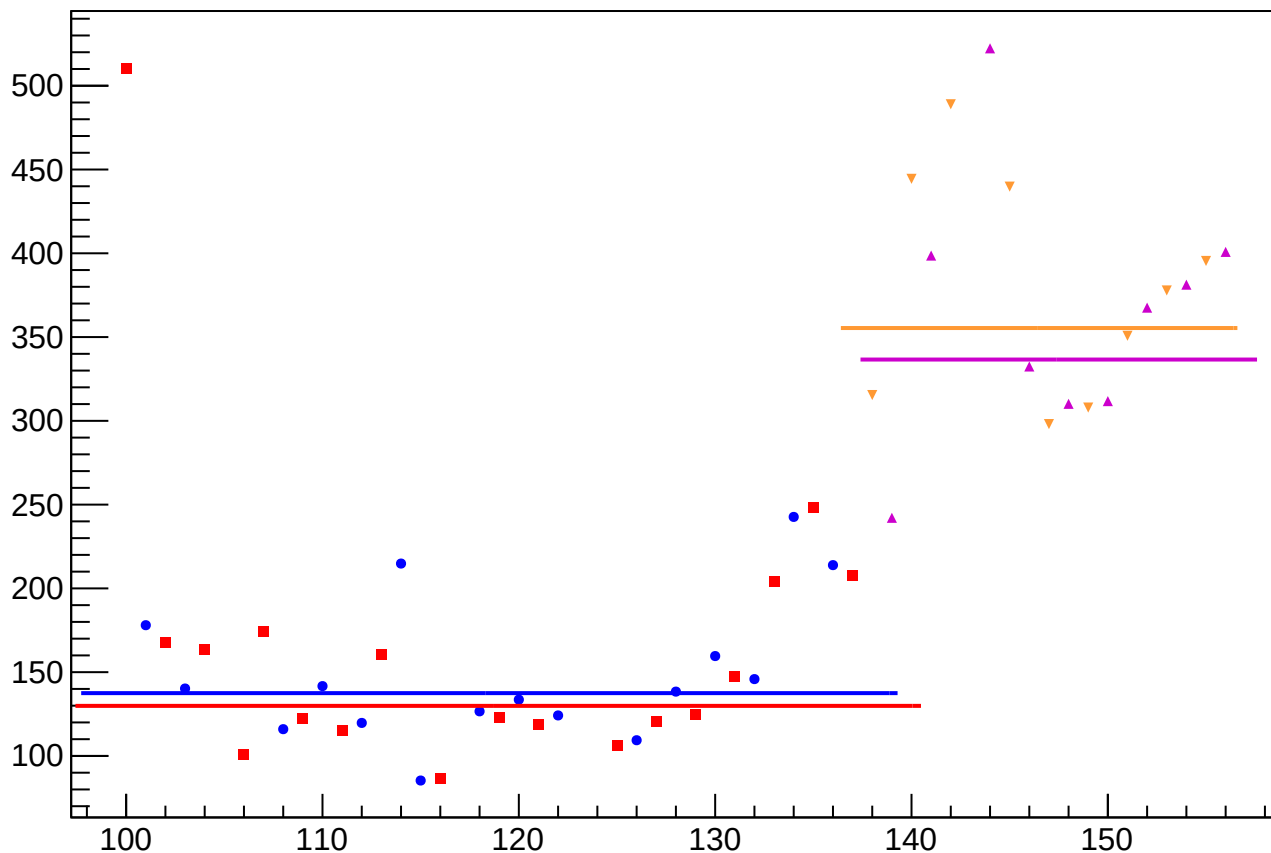
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.030 ± 0.050 $\chi^2/\text{NDF}: 27.6/24$

Out: 0.052 ± 0.049 $\chi^2/\text{NDF}: 39.2/26$

All: 0.011 ± 0.035 $\chi^2/\text{NDF}: 68.2/51$

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: 355.393 +/- 0.097 χ^2/NDF : 332965.1/8

Right Out: 129.887 +/- 0.037 χ^2/NDF : 833937.8/17

Left In: 336.587 +/- 0.088 χ^2/NDF : 604555.4/8

Left: 345.062 +/- 0.065 χ^2/NDF : 958169.5/17

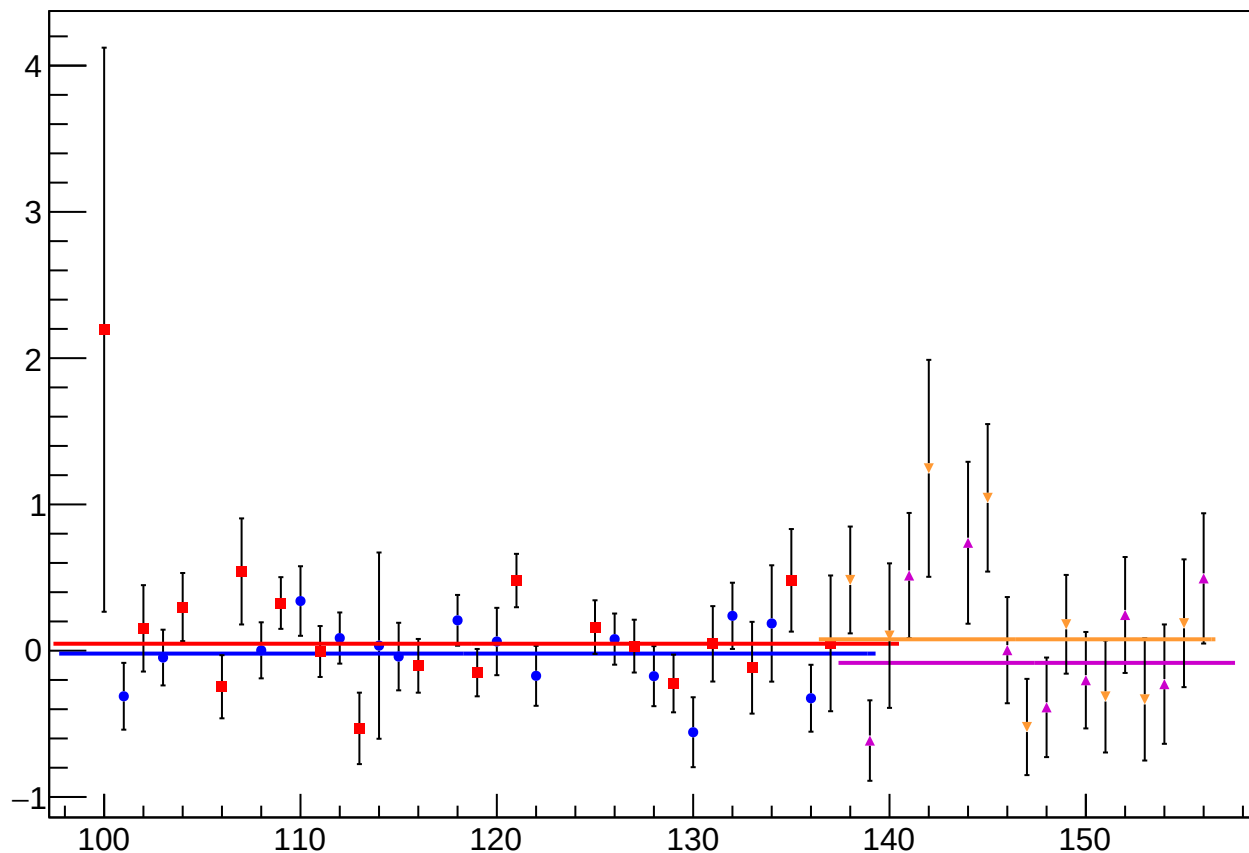
Right: 133.568 +/- 0.027 χ^2/NDF : 1547174.9/33

In: 169.327 +/- 0.035 χ^2/NDF : 5611724.6/24

Out: 158.690 +/- 0.035 χ^2/NDF : 5881062.6/26

All: 163.938 +/- 0.025 χ^2/NDF : 11539233.0/51

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: 0.078 ± 0.137 χ^2/NDF : 12.9/8

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.083 ± 0.124 χ^2/NDF : 11.4/8

Left: -0.011 ± 0.092 χ^2/NDF : 25.0/17

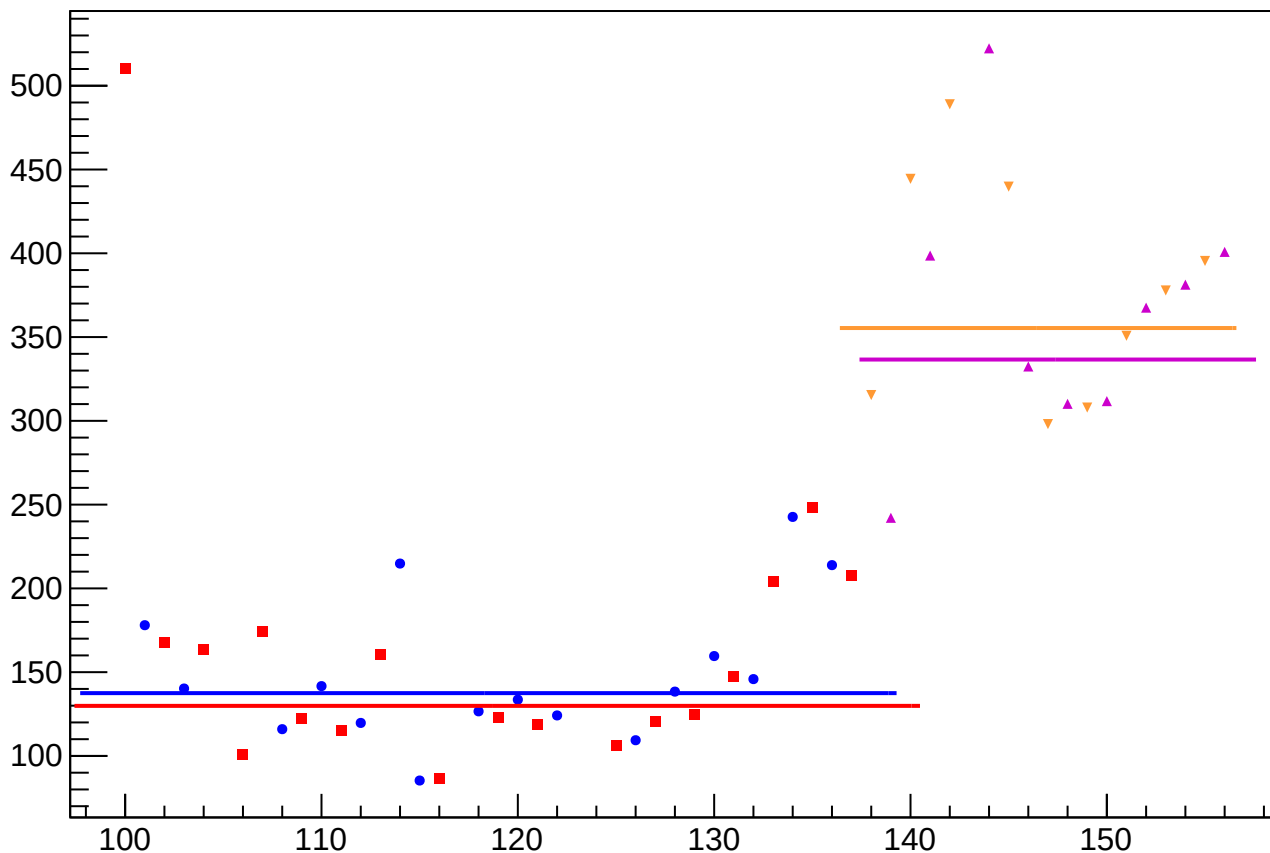
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.030 ± 0.050 χ^2/NDF : 27.6/24

Out: 0.052 ± 0.049 χ^2/NDF : 39.2/26

All: 0.011 ± 0.035 χ^2/NDF : 68.2/51

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692923.1/15

Left Out: 355.393 $\pm$ 0.097 χ^2 /NDF:332965.1/8

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833937.8/17

Left In: 336.587 $\pm$ 0.088 χ^2 /NDF:604555.4/8

Left: 345.062 $\pm$ 0.065 χ^2 /NDF: 958169.5/17

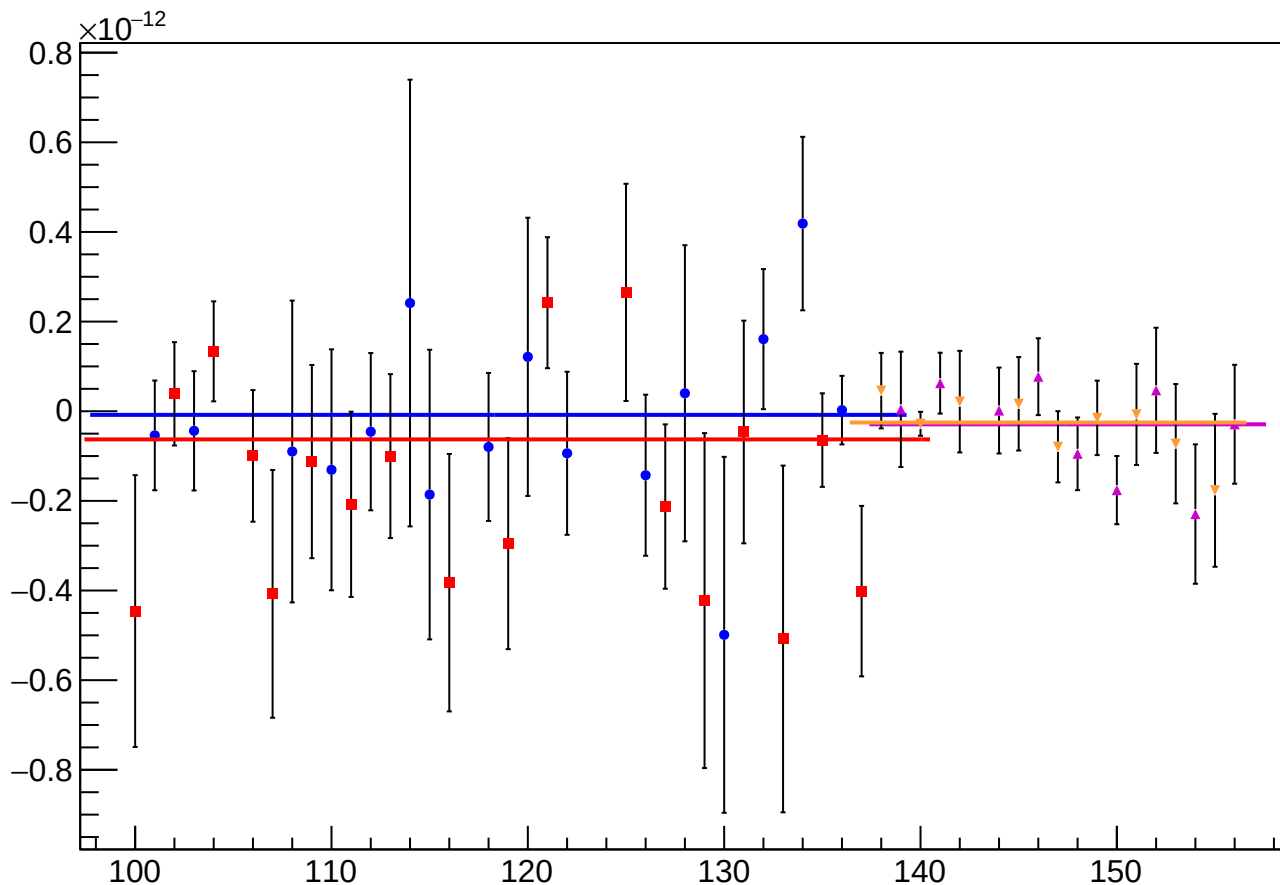
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547174.9/33

In: 169.327 $\pm$ 0.035 χ^2 /NDF:5611724.6/24

Out: 158.690 $\pm$ 0.035 χ^2 /NDF:5881062.6/26

All: 163.938 $\pm$ 0.025 χ^2 /NDF: 11539233.0/51

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 : 2.5/8

Right Out: -0.000+/-0.000 χ^2/NDF : 22.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 9.9/8

Left: -0.000+/-0.000 χ^2/NDF : 12.3/17

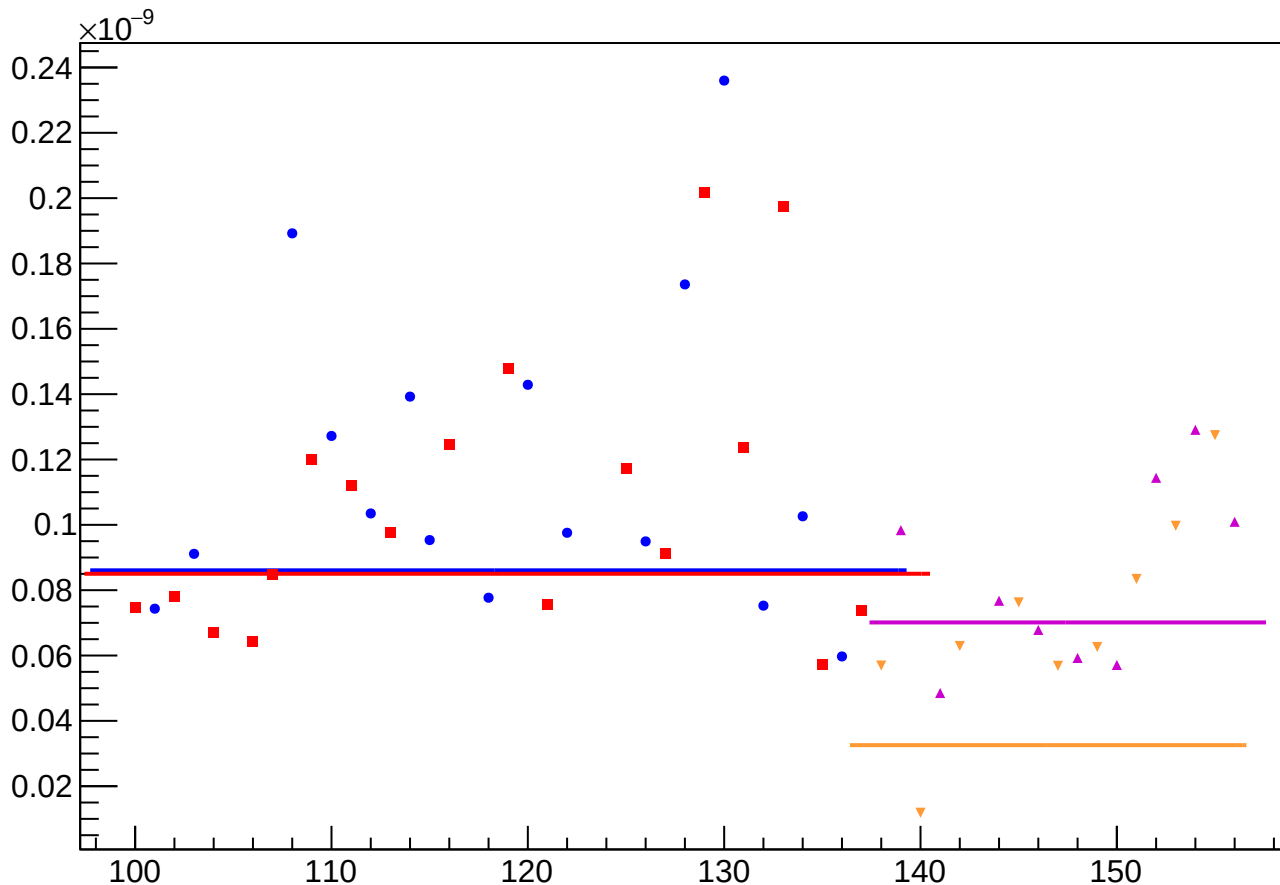
Right: -0.000+/-0.000 χ^2/NDF : 32.8/33

In: -0.000+/-0.000 χ^2/NDF : 19.8/24

Out: -0.000+/-0.000 χ^2/NDF : 25.3/26

All: -0.000+/-0.000 χ^2/NDF : 45.3/51

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 : 3847152.2/8

Right Out: 0.000+/-0.000 χ^2/NDF : 983211.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 1000398.6/8

Left: 0.000+/-0.000 χ^2/NDF : 6779171.5/17

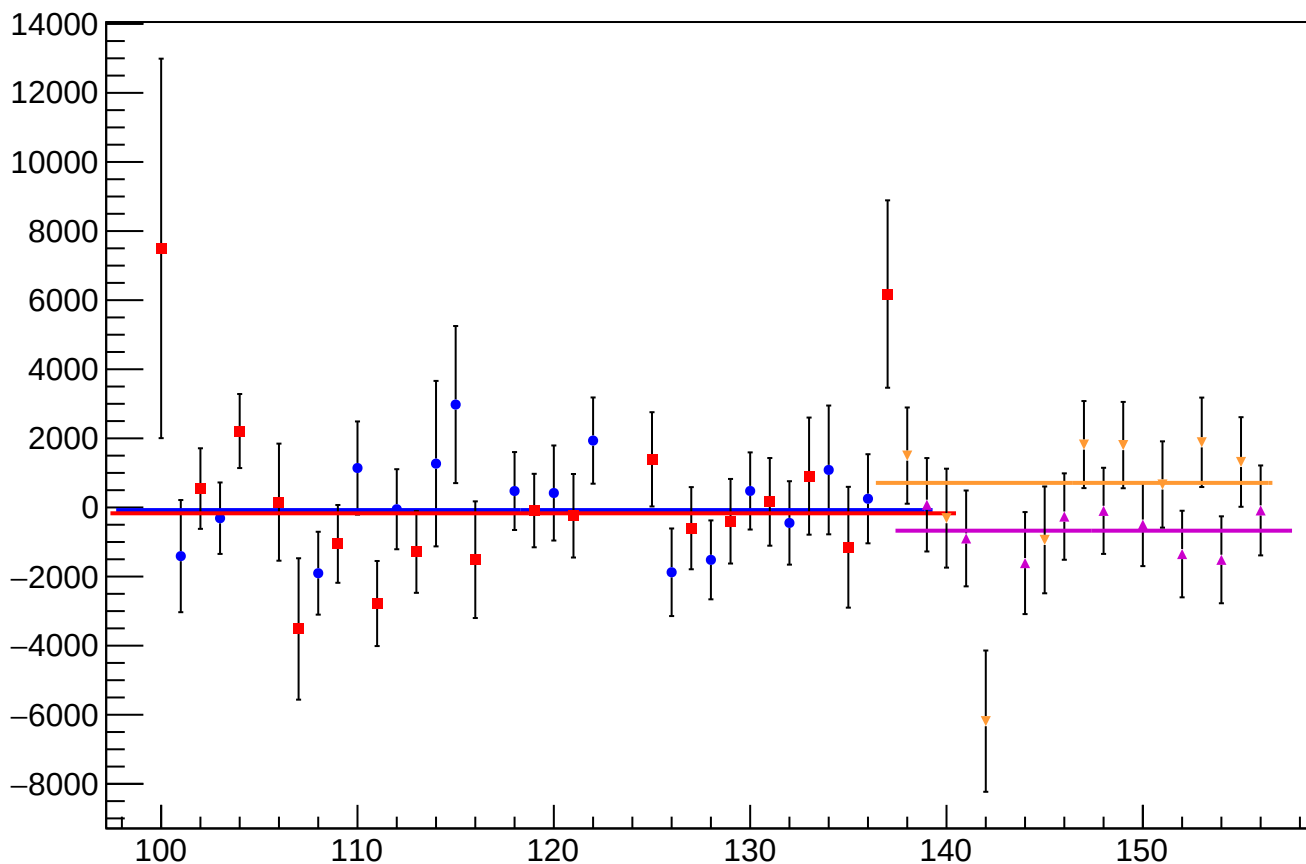
Right: 0.000+/-0.000 χ^2/NDF : 2055907.6/33

In: 0.000+/-0.000 χ^2/NDF : 2253680.9/24

Out: 0.000+/-0.000 χ^2/NDF : 7333526.8/26

All: 0.000+/-0.000 χ^2/NDF : 11667346.6/51

reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -75.944 ± 326.226 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 711.166 ± 458.153 $\chi^2/\text{NDF}: 15.9/8$

Right Out: -169.345 ± 321.827 $\chi^2/\text{NDF}: 24.4/17$

Left In: -672.310 ± 431.949 $\chi^2/\text{NDF}: 2.0/8$

Left: -21.265 ± 314.290 $\chi^2/\text{NDF}: 22.8/17$

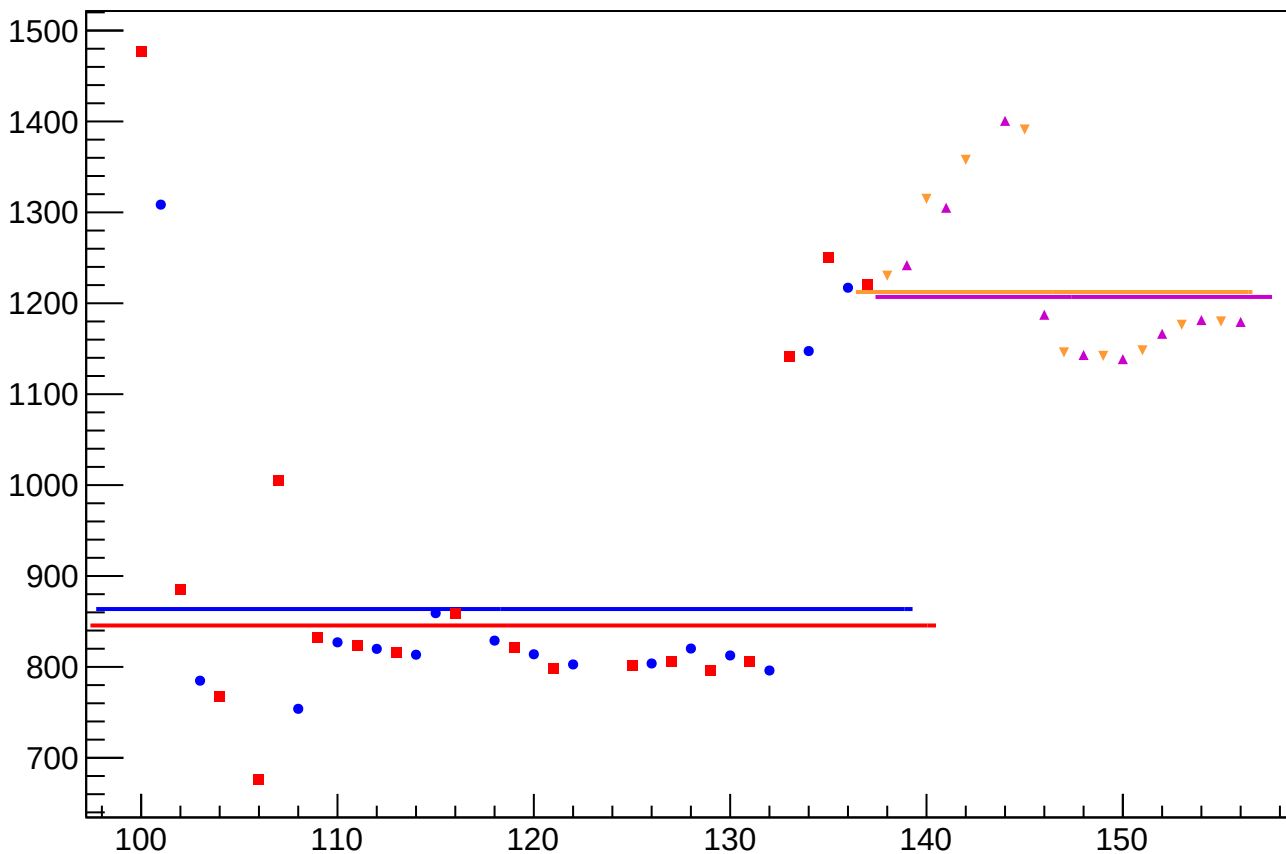
Right: -123.279 ± 229.106 $\chi^2/\text{NDF}: 37.8/33$

In: -292.554 ± 260.324 $\chi^2/\text{NDF}: 16.6/24$

Out: 121.576 ± 263.348 $\chi^2/\text{NDF}: 42.8/26$

All: -87.880 ± 185.137 $\chi^2/\text{NDF}: 60.6/51$

reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661+/-0.231 χ^2/NDF : 407498.8/15

Left Out: 1212.409+/-0.324 χ^2/NDF : 67393.7/8

Right Out: 845.579+/-0.225 χ^2/NDF : 307774.6/17

Left In: 1206.960+/-0.305 χ^2/NDF : 61784.0/8

Left: 1209.524+/-0.222 χ^2/NDF : 129327.5/17

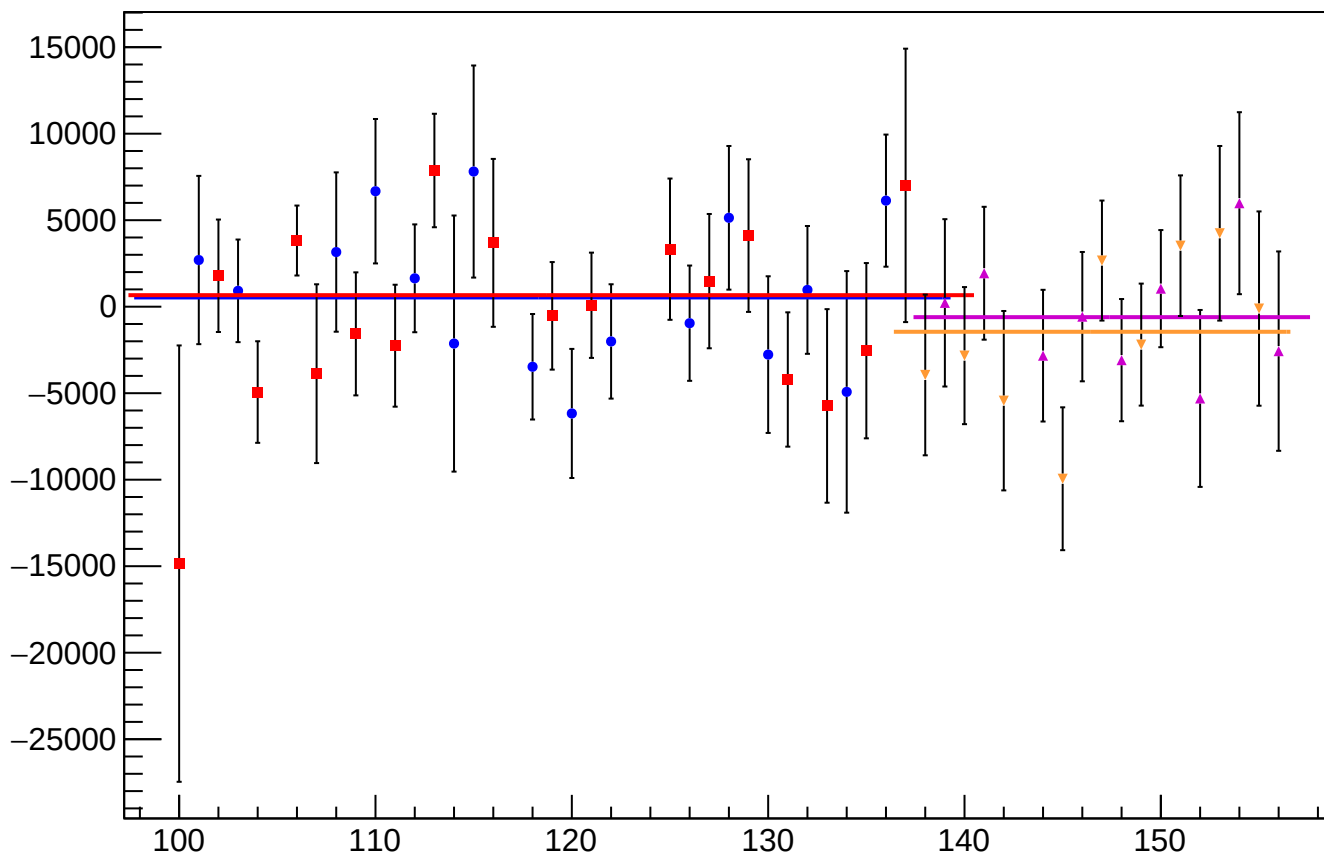
Right: 854.385+/-0.161 χ^2/NDF : 718425.8/33

In: 988.353+/-0.184 χ^2/NDF : 1273735.3/24

Out: 964.770+/-0.185 χ^2/NDF : 1240721.4/26

All: 976.599+/-0.130 χ^2/NDF : 2522637.4/51

asym_usl_atl2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 534.507 $\pm$ 981.290 χ^2 /NDF: 14.7/15

Left Out: -1449.820 $\pm$ 1412.796 χ^2 /NDF:9.5/8

Right Out: 665.878 $\pm$ 864.970 χ^2 /NDF: 20.0/17

Left In: -604.798 $\pm$ 1382.726 χ^2 /NDF:4.1/8

Left: -1018.221 $\pm$ 988.195 χ^2 /NDF: 13.8/17

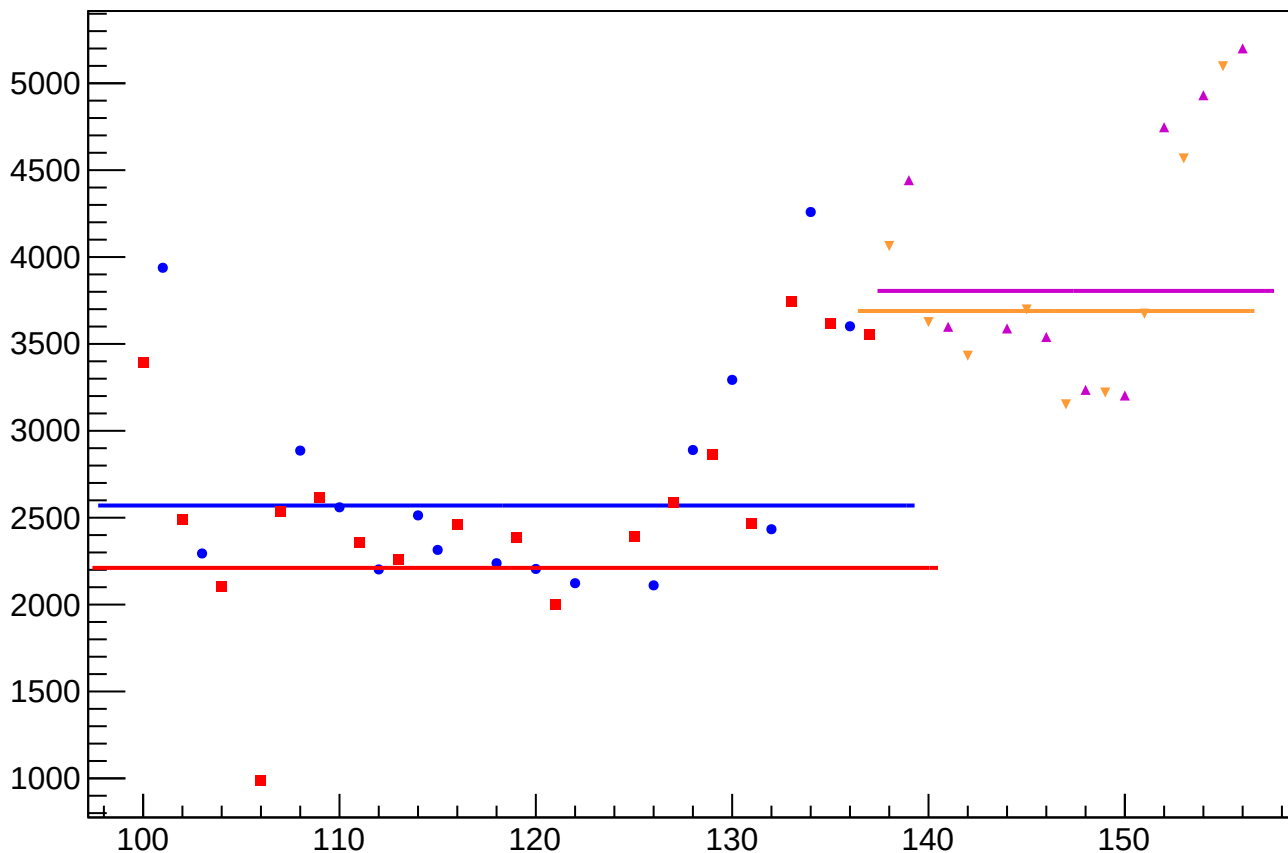
Right: 608.437 $\pm$ 648.874 χ^2 /NDF: 34.6/33

In: 152.899 $\pm$ 800.249 χ^2 /NDF:19.2/24

Out: 89.051 $\pm$ 737.693 χ^2 /NDF:31.1/26

All: 118.382 $\pm$ 542.396 χ^2 /NDF: 50.3/51

asym_usl_atl2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2570.135 ± 0.694 $\chi^2/\text{NDF}: 662477.9/15$

Left Out: 3689.519 ± 0.999 $\chi^2/\text{NDF}: 288234.2/8$

Right Out: 2211.269 ± 0.612 $\chi^2/\text{NDF}: 1264087.9/17$

Left In: 3805.115 ± 0.978 $\chi^2/\text{NDF}: 449019.6/8$

Left: 3748.560 ± 0.699 $\chi^2/\text{NDF}: 744092.4/17$

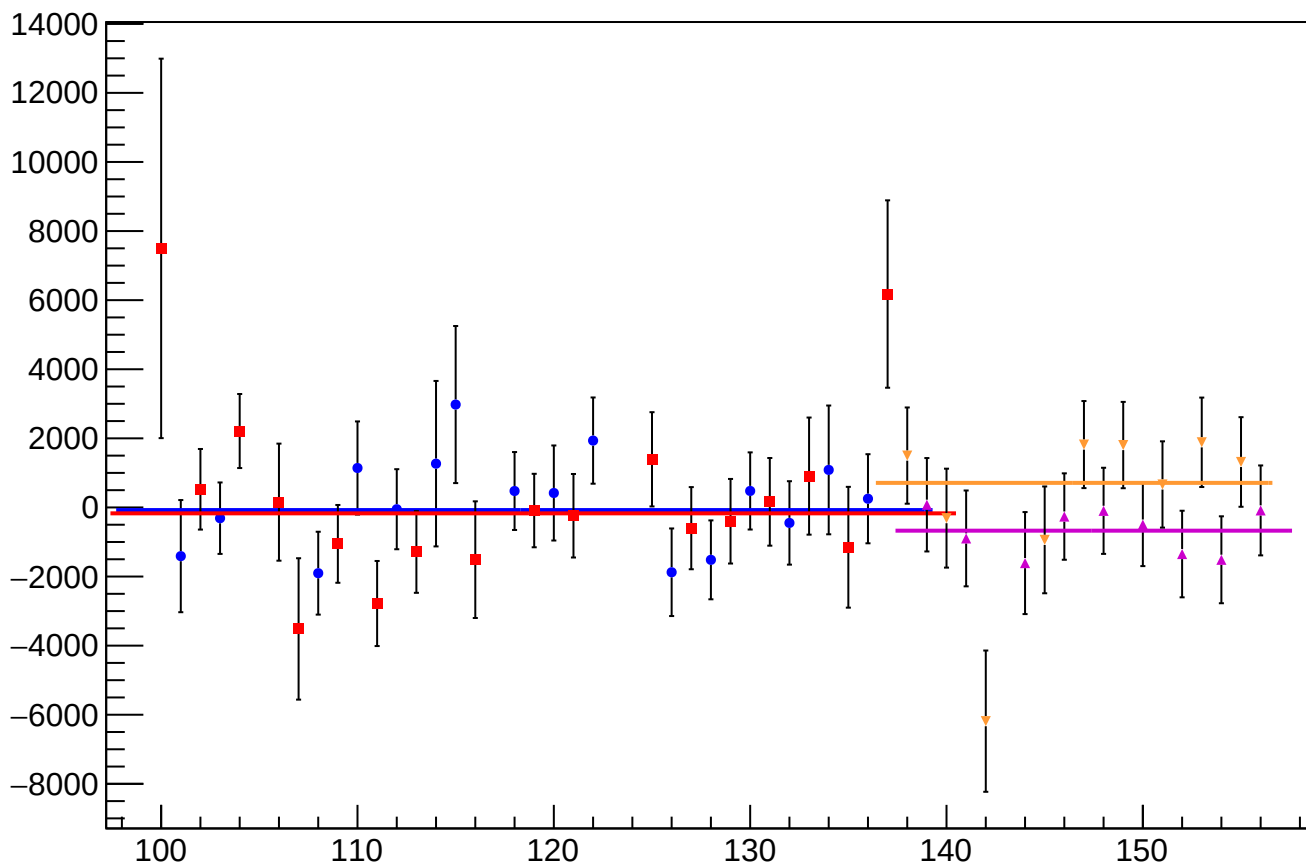
Right: 2368.182 ± 0.459 $\chi^2/\text{NDF}: 2077093.7/33$

In: 2983.790 ± 0.566 $\chi^2/\text{NDF}: 2172540.2/24$

Out: 2614.301 ± 0.522 $\chi^2/\text{NDF}: 3144953.7/26$

All: 2784.041 ± 0.384 $\chi^2/\text{NDF}: 5547990.0/51$

cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022 ± 326.226 $\chi^2/\text{NDF}: 13.3/15$

Left Out: 711.113 ± 458.153 $\chi^2/\text{NDF}: 15.9/8$

Right Out: -170.982 ± 321.832 $\chi^2/\text{NDF}: 24.4/17$

Left In: -672.357 ± 431.949 $\chi^2/\text{NDF}: 2.0/8$

Left: -21.315 ± 314.290 $\chi^2/\text{NDF}: 22.8/17$

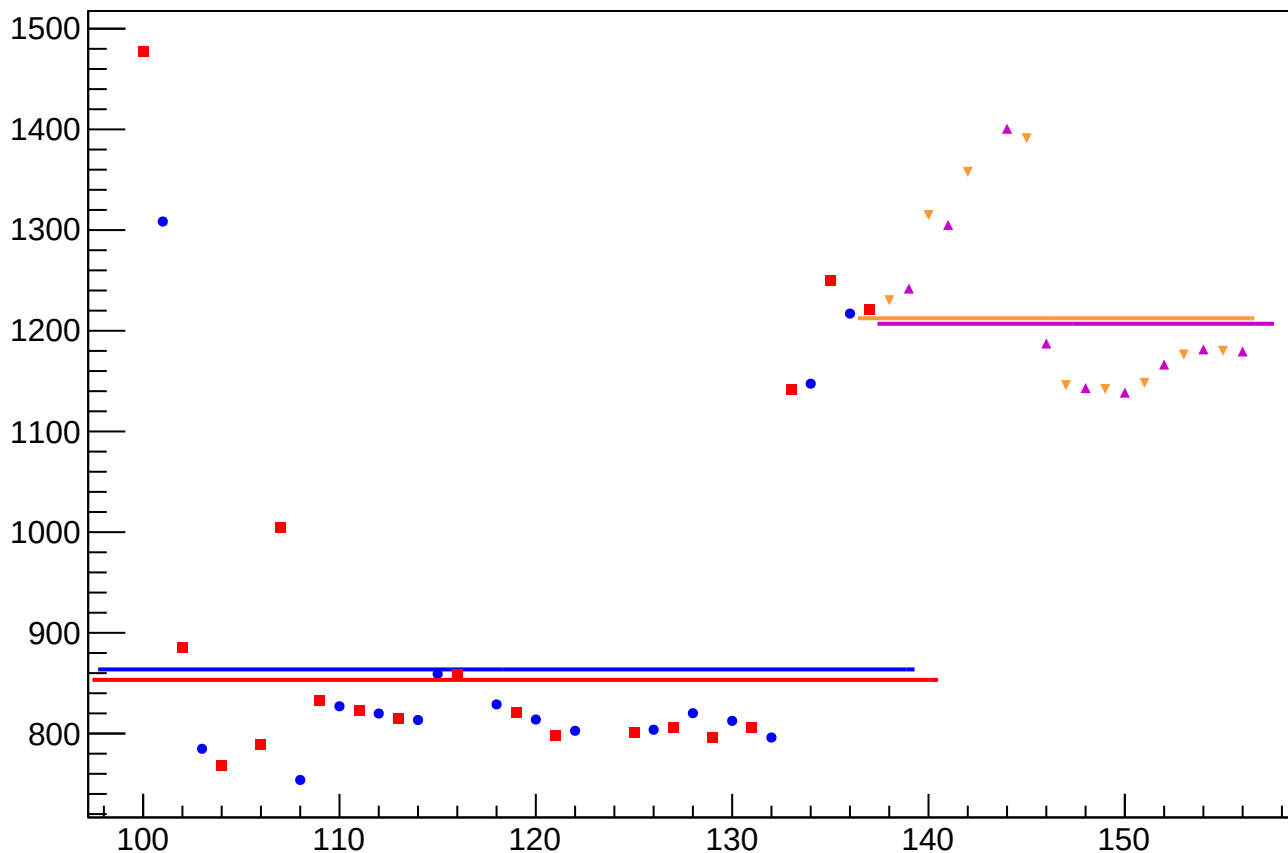
Right: -124.146 ± 229.107 $\chi^2/\text{NDF}: 37.7/33$

In: -292.621 ± 260.324 $\chi^2/\text{NDF}: 16.6/24$

Out: 120.468 ± 263.351 $\chi^2/\text{NDF}: 42.8/26$

All: -88.463 ± 185.138 $\chi^2/\text{NDF}: 60.6/51$

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: 1212.409 $\pm$ 0.324 χ^2/NDF : 67393.7/8

Right Out: 853.289 $\pm$ 0.226 χ^2/NDF : 275357.1/17

Left In: 1206.960 $\pm$ 0.305 χ^2/NDF : 61784.0/8

Left: 1209.524 $\pm$ 0.222 χ^2/NDF : 129327.5/17

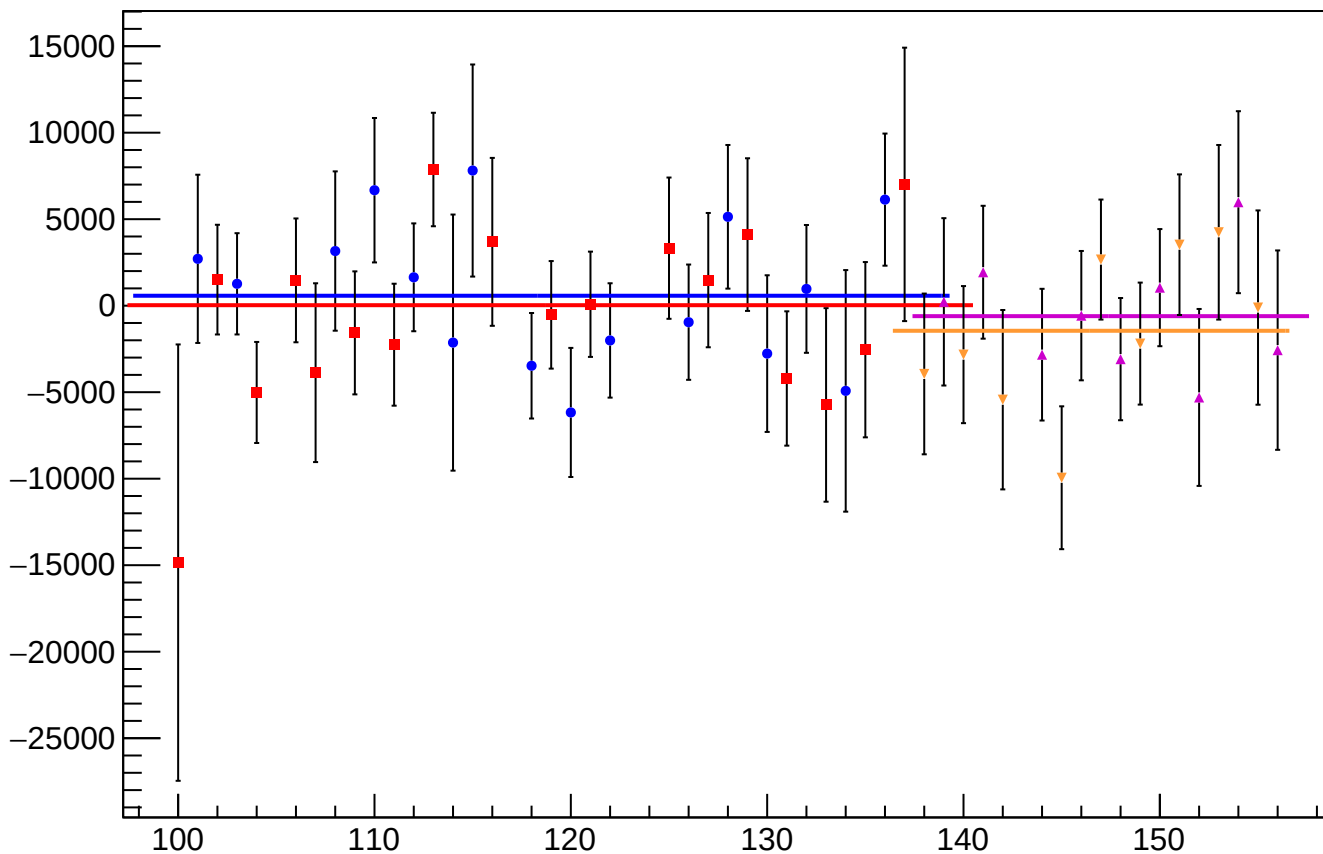
Right: 858.378 $\pm$ 0.162 χ^2/NDF : 683885.4/33

In: 988.353 $\pm$ 0.184 χ^2/NDF : 1273735.4/24

Out: 971.124 $\pm$ 0.186 χ^2/NDF : 1168368.3/26

All: 979.808 $\pm$ 0.131 χ^2/NDF : 2446448.4/51

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: -1449.877 $\pm$ 1412.796 χ^2 /NDF:9.5/8

Right Out: 28.604 $\pm$ 922.115 χ^2 /NDF: 17.2/17

Left In: -604.859 $\pm$ 1382.724 χ^2 /NDF:4.1/8

Left: -1018.279 $\pm$ 988.194 χ^2 /NDF: 13.8/17

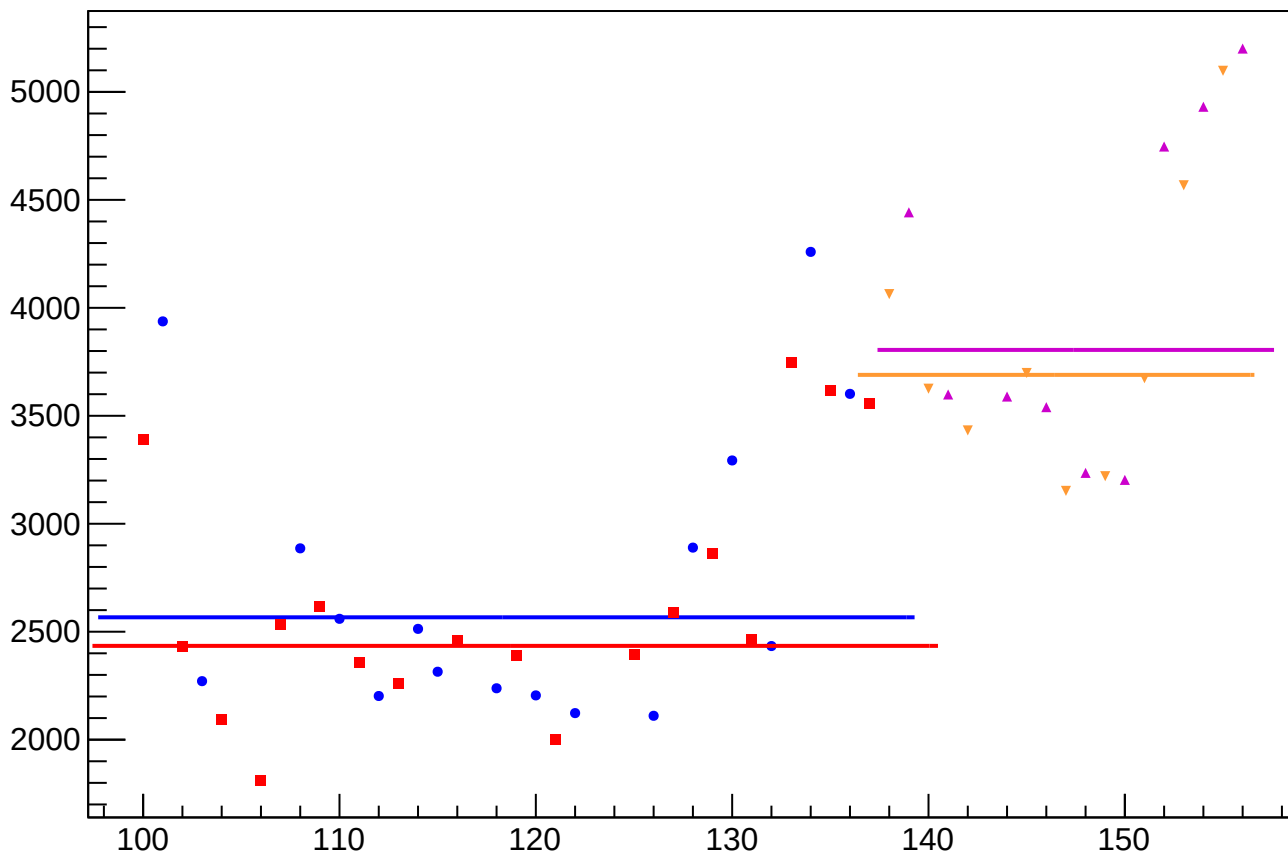
Right: 285.212 $\pm$ 671.519 χ^2 /NDF: 32.1/33

In: 180.552 $\pm$ 799.470 χ^2 /NDF:19.3/24

Out: -413.075 $\pm$ 772.191 χ^2 /NDF:27.5/26

All: -126.562 $\pm$ 555.415 χ^2 /NDF: 47.0/51

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: 3689.518 $\pm$ 0.999 χ^2 /NDF:288232.2/8

Right Out: 2434.430 $\pm$ 0.652 χ^2 /NDF: 434078.9/17

Left In: 3805.110 $\pm$ 0.978 χ^2 /NDF:449020.8/8

Left: 3748.557 $\pm$ 0.699 χ^2 /NDF: 744091.1/17

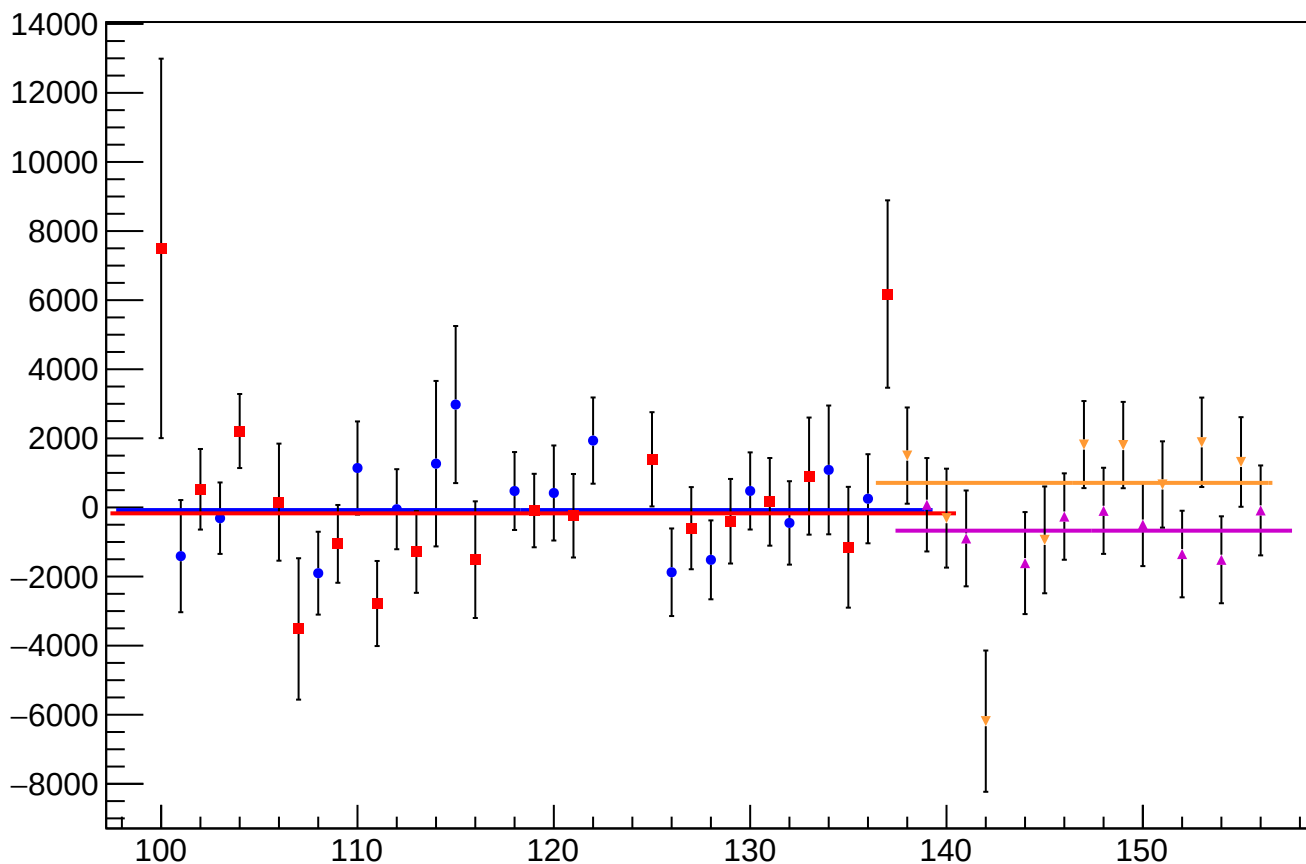
Right: 2496.568 $\pm$ 0.475 χ^2 /NDF: 1119287.3/33

In: 2980.719 $\pm$ 0.565 χ^2 /NDF:2182827.9/24

Out: 2809.373 $\pm$ 0.546 χ^2 /NDF:1829188.6/26

All: 2892.073 $\pm$ 0.393 χ^2 /NDF: 4059545.4/51

eigen_cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022 ± 326.226 $\chi^2/\text{NDF}: 13.3/15$

Left Out: 711.113 ± 458.153 $\chi^2/\text{NDF}: 15.9/8$

Right Out: -170.982 ± 321.832 $\chi^2/\text{NDF}: 24.4/17$

Left In: -672.357 ± 431.949 $\chi^2/\text{NDF}: 2.0/8$

Left: -21.315 ± 314.290 $\chi^2/\text{NDF}: 22.8/17$

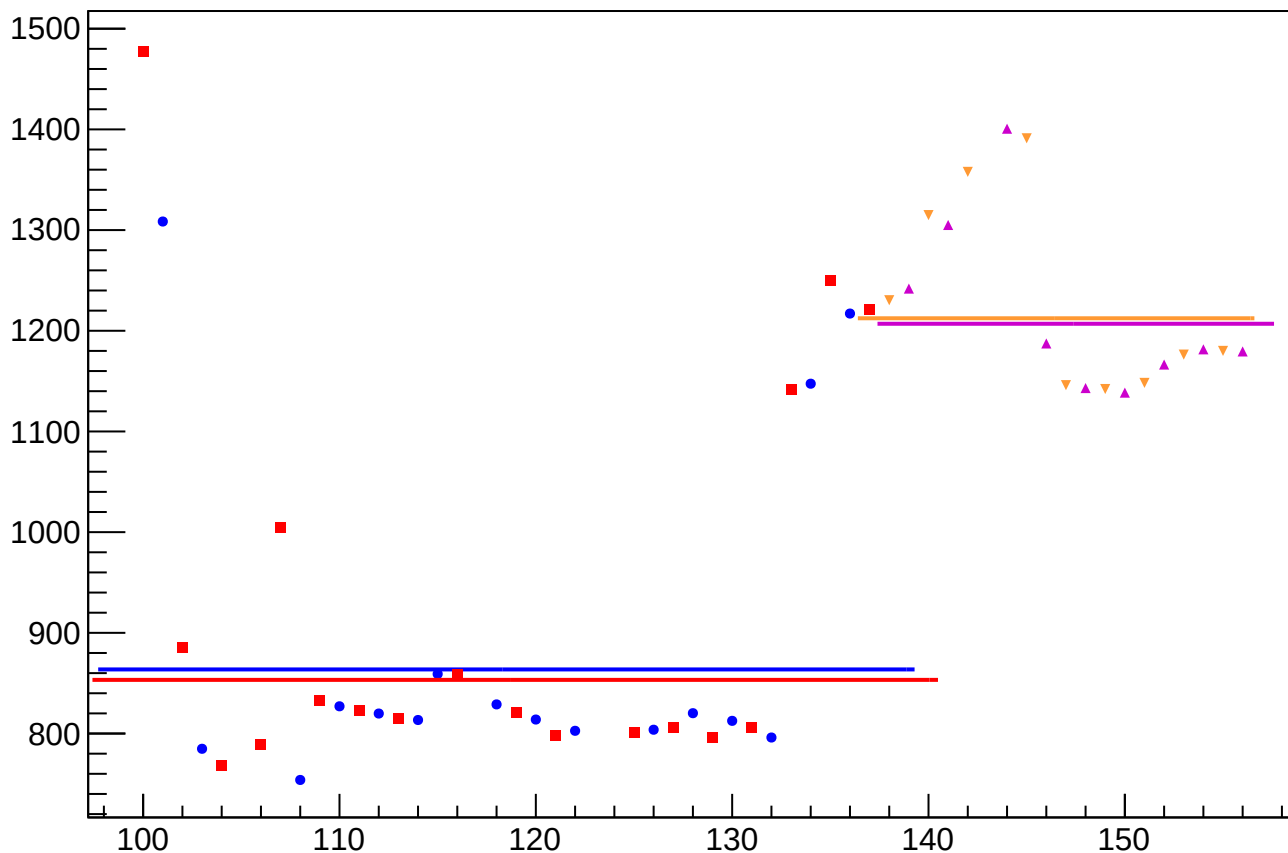
Right: -124.146 ± 229.107 $\chi^2/\text{NDF}: 37.7/33$

In: -292.621 ± 260.324 $\chi^2/\text{NDF}: 16.6/24$

Out: 120.468 ± 263.351 $\chi^2/\text{NDF}: 42.8/26$

All: -88.463 ± 185.138 $\chi^2/\text{NDF}: 60.6/51$

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: 1212.409 $\pm$ 0.324 χ^2 /NDF: 67393.7/8

Right Out: 853.289 $\pm$ 0.226 χ^2 /NDF: 275357.1/17

Left In: 1206.960 $\pm$ 0.305 χ^2 /NDF: 61784.0/8

Left: 1209.524 $\pm$ 0.222 χ^2 /NDF: 129327.5/17

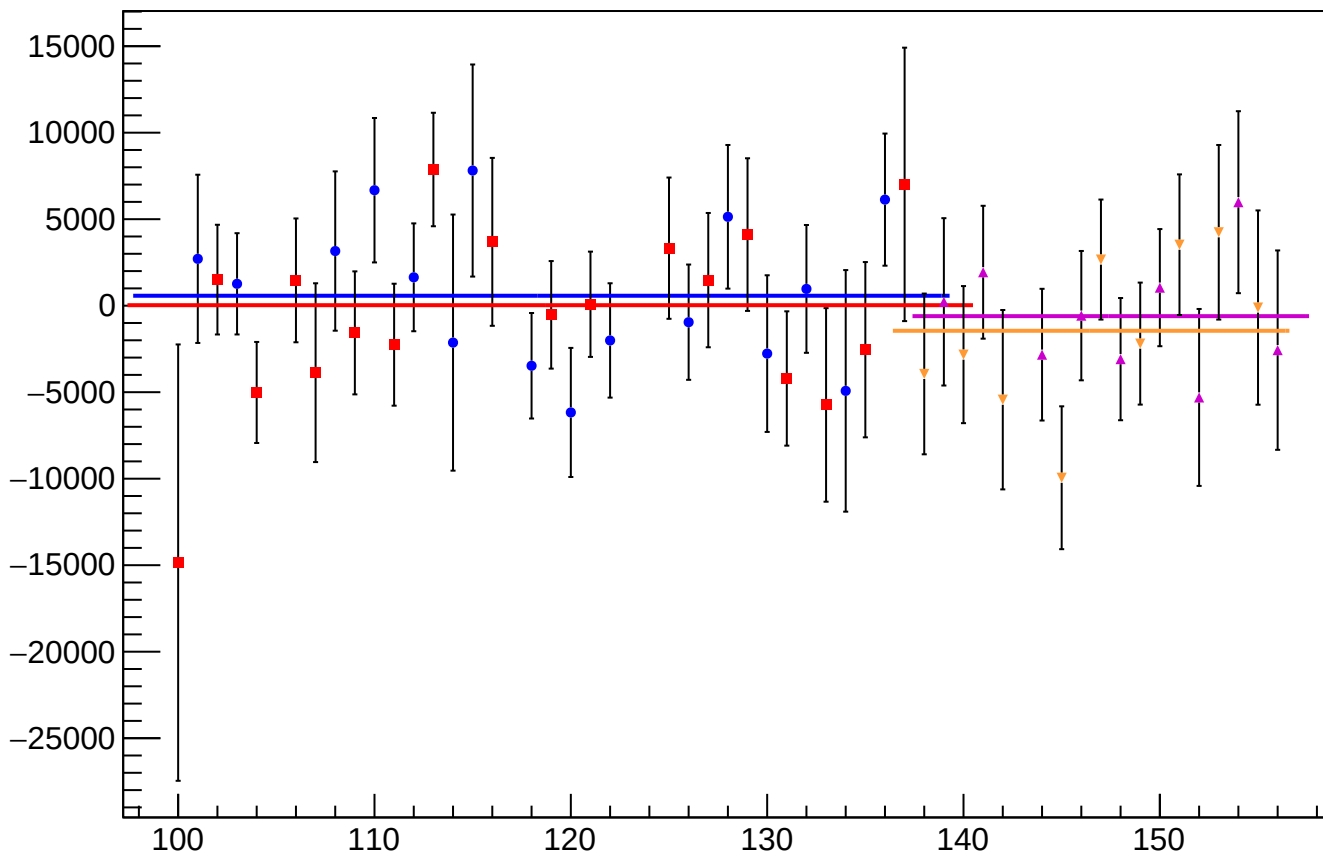
Right: 858.378 $\pm$ 0.162 χ^2 /NDF: 683885.4/33

In: 988.353 $\pm$ 0.184 χ^2 /NDF: 1273735.4/24

Out: 971.124 $\pm$ 0.186 χ^2 /NDF: 1168368.3/26

All: 979.808 $\pm$ 0.131 χ^2 /NDF: 2446448.4/51

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: -1449.877 $\pm$ 1412.796 χ^2 /NDF:9.5/8

Right Out: 28.604 $\pm$ 922.115 χ^2 /NDF: 17.2/17

Left In: -604.859 $\pm$ 1382.724 χ^2 /NDF:4.1/8

Left: -1018.279 $\pm$ 988.194 χ^2 /NDF: 13.8/17

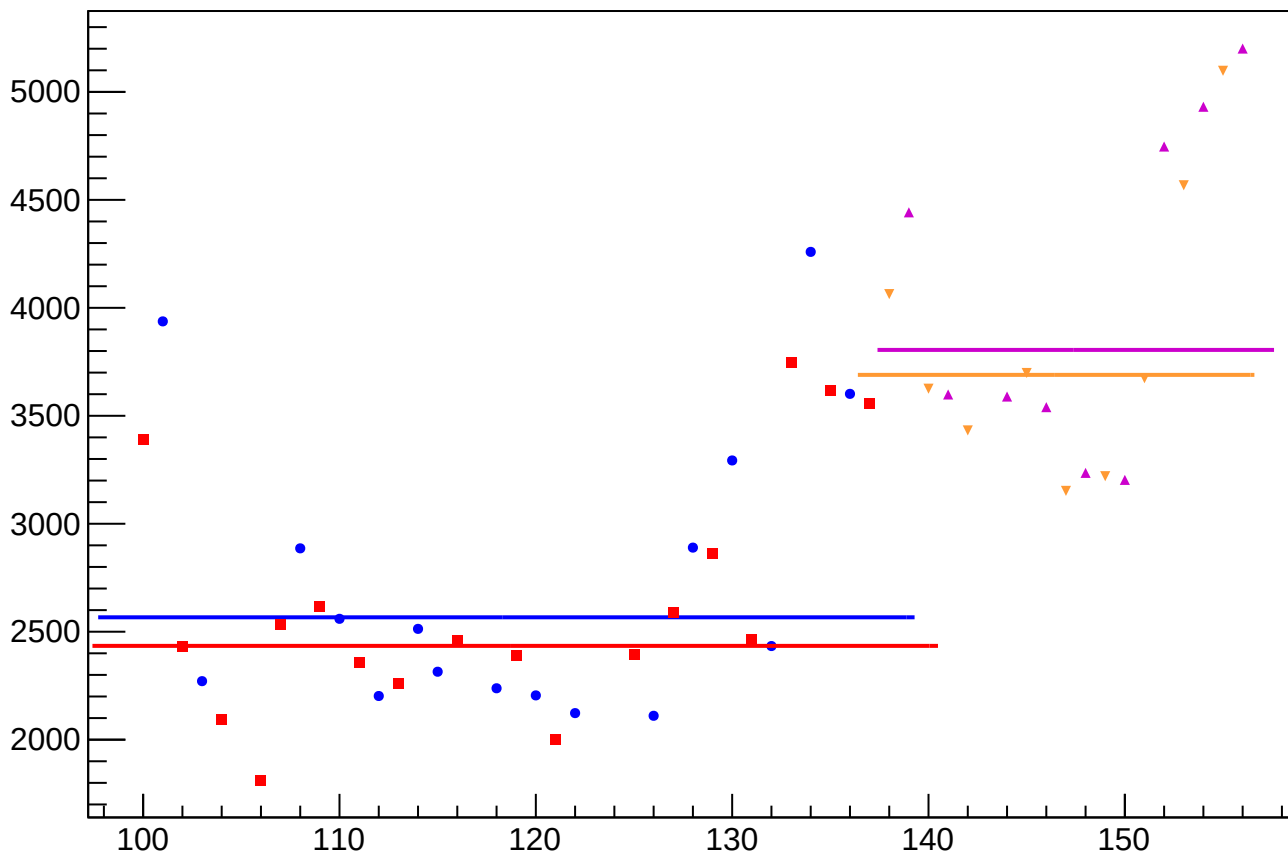
Right: 285.212 $\pm$ 671.519 χ^2 /NDF: 32.1/33

In: 180.552 $\pm$ 799.470 χ^2 /NDF:19.3/24

Out: -413.075 $\pm$ 772.191 χ^2 /NDF:27.5/26

All: -126.562 $\pm$ 555.415 χ^2 /NDF: 47.0/51

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: 3689.518 $\pm$ 0.999 χ^2 /NDF: 288232.2/8

Right Out: 2434.430 $\pm$ 0.652 χ^2 /NDF: 434078.9/17

Left In: 3805.110 $\pm$ 0.978 χ^2 /NDF: 449020.8/8

Left: 3748.557 $\pm$ 0.699 χ^2 /NDF: 744091.1/17

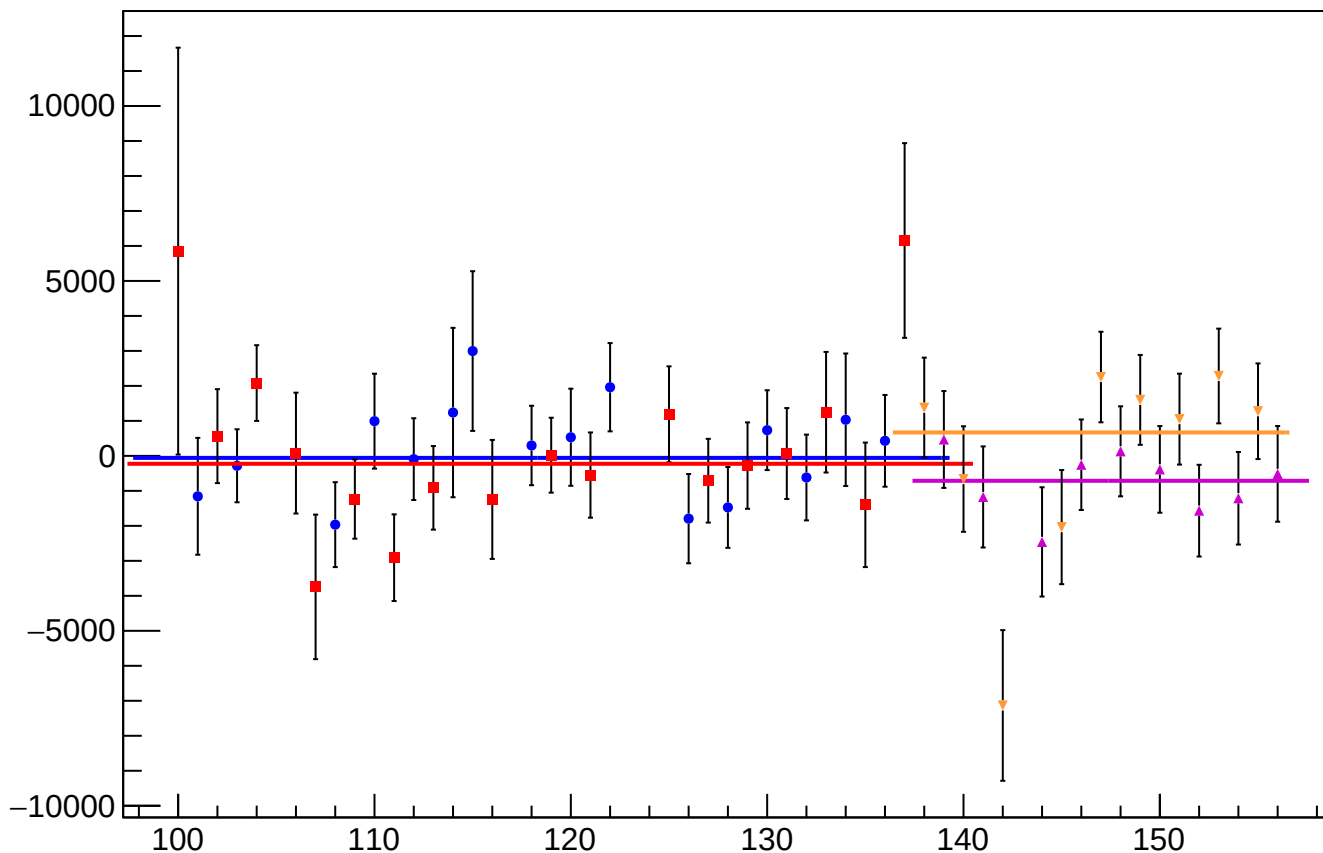
Right: 2496.568 $\pm$ 0.475 χ^2 /NDF: 1119287.3/33

In: 2980.719 $\pm$ 0.565 χ^2 /NDF: 2182827.9/24

Out: 2809.373 $\pm$ 0.546 χ^2 /NDF: 1829188.6/26

All: 2892.073 $\pm$ 0.393 χ^2 /NDF: 4059545.4/51

dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.208 ± 330.088 χ^2/NDF : 13.0/15

Left Out: 669.577 ± 476.927 χ^2/NDF : 20.6/8

Right Out: -226.075 ± 328.069 χ^2/NDF : 22.9/17

Left In: -712.541 ± 449.318 χ^2/NDF : 3.3/8

Left: -62.642 ± 327.041 χ^2/NDF : 28.4/17

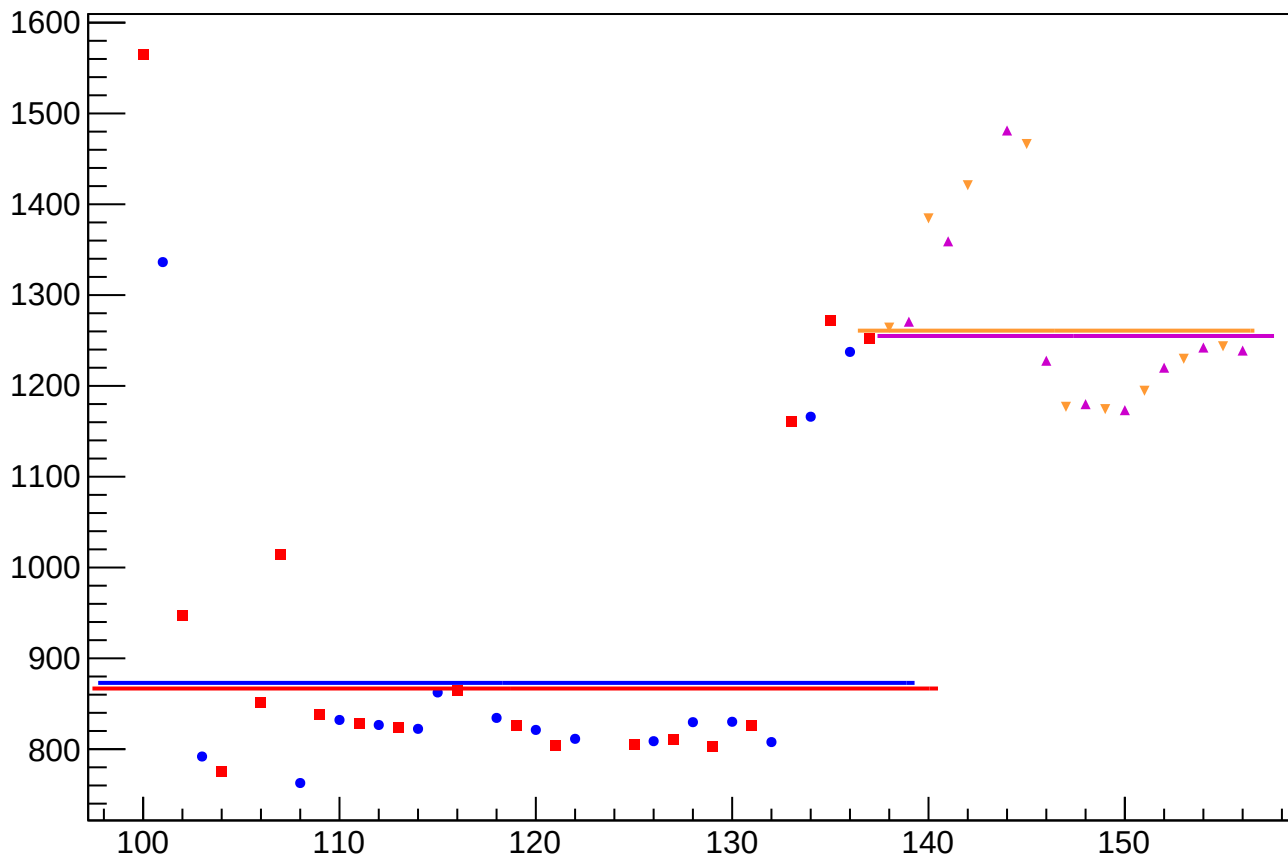
Right: -142.159 ± 232.690 χ^2/NDF : 36.0/33

In: -286.917 ± 266.018 χ^2/NDF : 17.7/24

Out: 61.605 ± 270.294 χ^2/NDF : 45.9/26

All: -115.434 ± 189.597 χ^2/NDF : 64.5/51

dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.971 ± 0.233 $\chi^2/\text{NDF}: 417099.2/15$

Left Out: 1260.842 ± 0.337 $\chi^2/\text{NDF}: 80281.6/8$

Right Out: 866.772 ± 0.232 $\chi^2/\text{NDF}: 290386.4/17$

Left In: 1254.960 ± 0.318 $\chi^2/\text{NDF}: 70949.6/8$

Left: 1257.726 ± 0.231 $\chi^2/\text{NDF}: 151392.3/17$

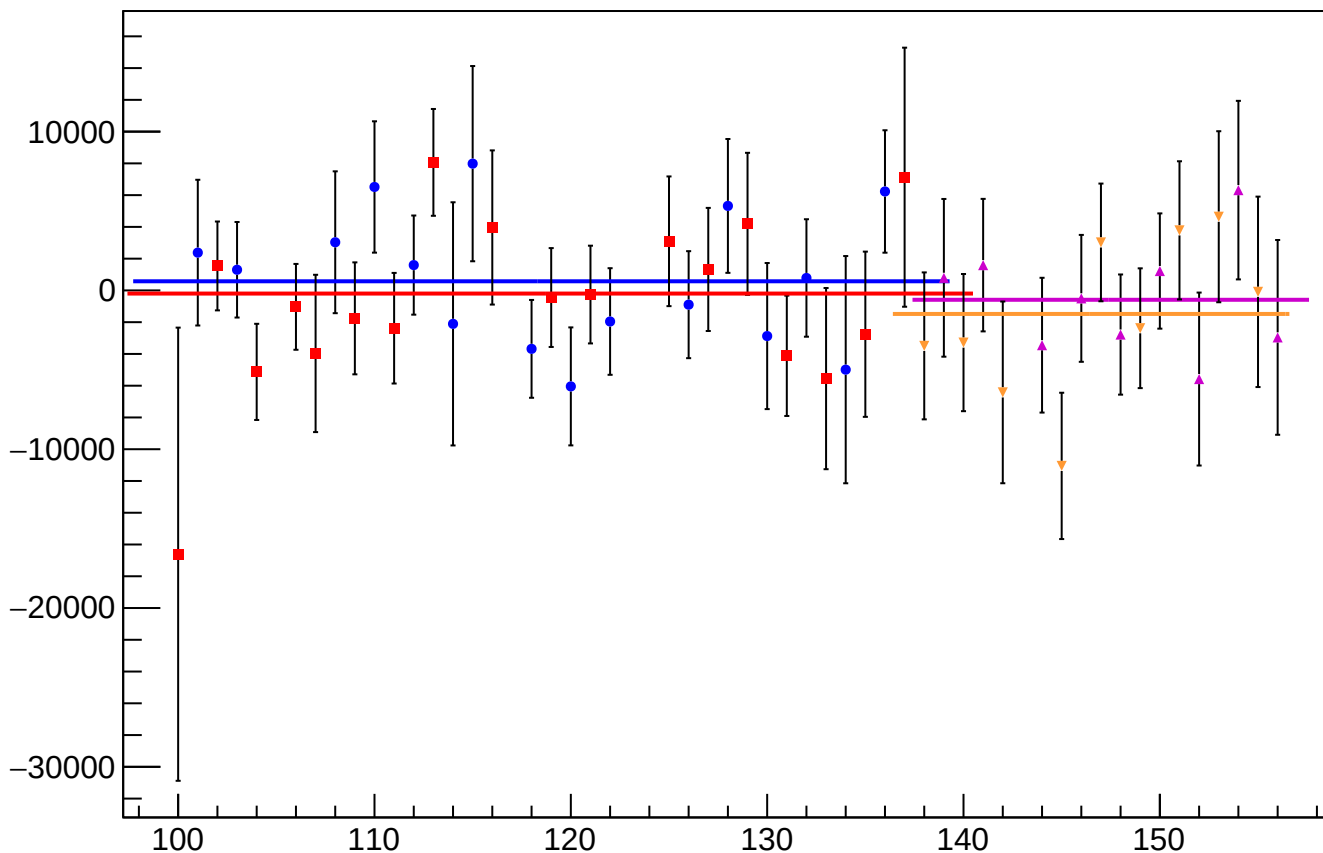
Right: 869.850 ± 0.164 $\chi^2/\text{NDF}: 707840.8/33$

In: 1006.867 ± 0.188 $\chi^2/\text{NDF}: 1426881.2/24$

Out: 993.176 ± 0.191 $\chi^2/\text{NDF}: 1298124.7/26$

All: 1000.126 ± 0.134 $\chi^2/\text{NDF}: 2727614.3/51$

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: -1481.531+/-1514.087 χ^2/NDF : 9.8/8

Right Out: -197.953+/-894.121 χ^2/NDF : 17.2/17

Left In: -589.784+/-1484.287 χ^2/NDF : 3.9/8

Left: -1026.796+/-1059.928 χ^2/NDF : 13.8/17

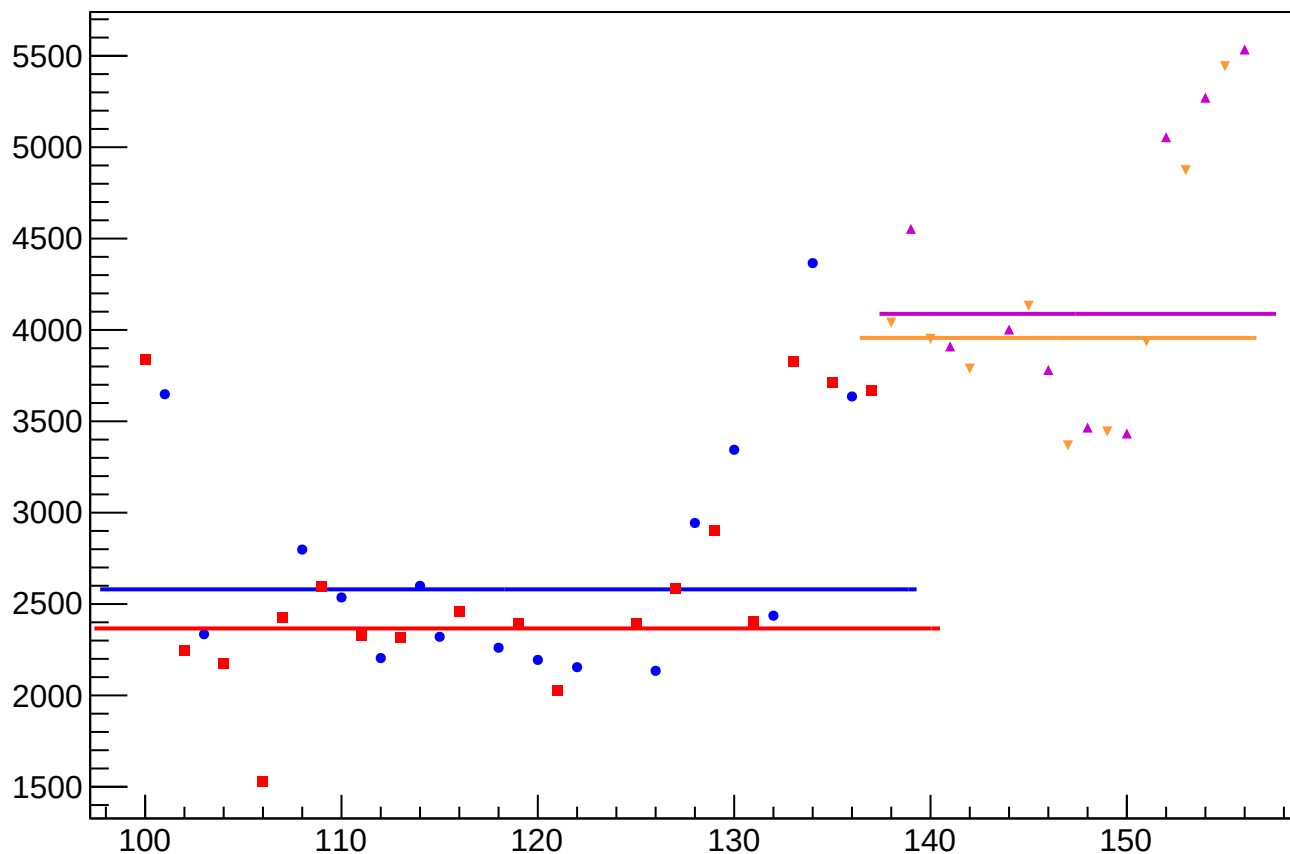
Right: 151.395+/-662.008 χ^2/NDF : 32.2/33

In: 219.120+/-820.658 χ^2/NDF : 19.0/24

Out: -529.839+/-769.899 χ^2/NDF : 27.5/26

All: -179.237+/-561.488 χ^2/NDF : 46.9/51

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: 3956.264+/-1.071 χ^2/NDF : 273588.2/8

Right Out: 2366.412+/-0.632 χ^2/NDF : 611695.1/17

Left In: 4088.029+/-1.050 χ^2/NDF : 415900.6/8

Left: 4023.456+/-0.749 χ^2/NDF : 697212.8/17

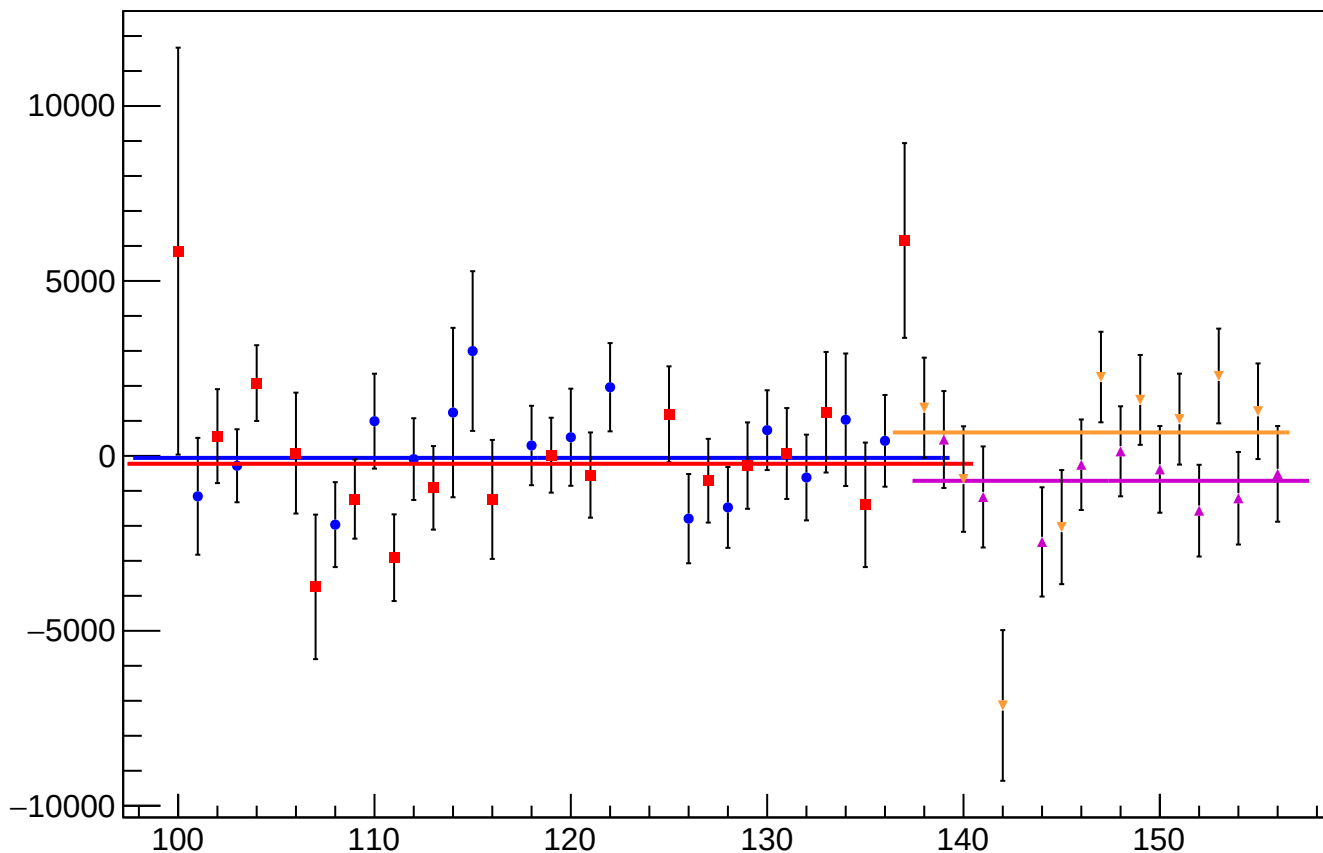
Right: 2463.083+/-0.468 χ^2/NDF : 1280596.8/33

In: 3041.259+/-0.580 χ^2/NDF : 2465729.6/24

Out: 2777.489+/-0.544 χ^2/NDF : 2520278.7/26

All: 2900.965+/-0.397 χ^2/NDF : 5095901.3/51

eigen_dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.211 $\pm$ 330.088 χ^2/NDF : 13.0/15

Left Out: 669.570 $\pm$ 476.927 χ^2/NDF :20.6/8

Right Out: -226.078 $\pm$ 328.069 χ^2/NDF : 22.9/17

Left In: -712.540 $\pm$ 449.319 χ^2/NDF :3.3/8

Left: -62.645 $\pm$ 327.041 χ^2/NDF : 28.4/17

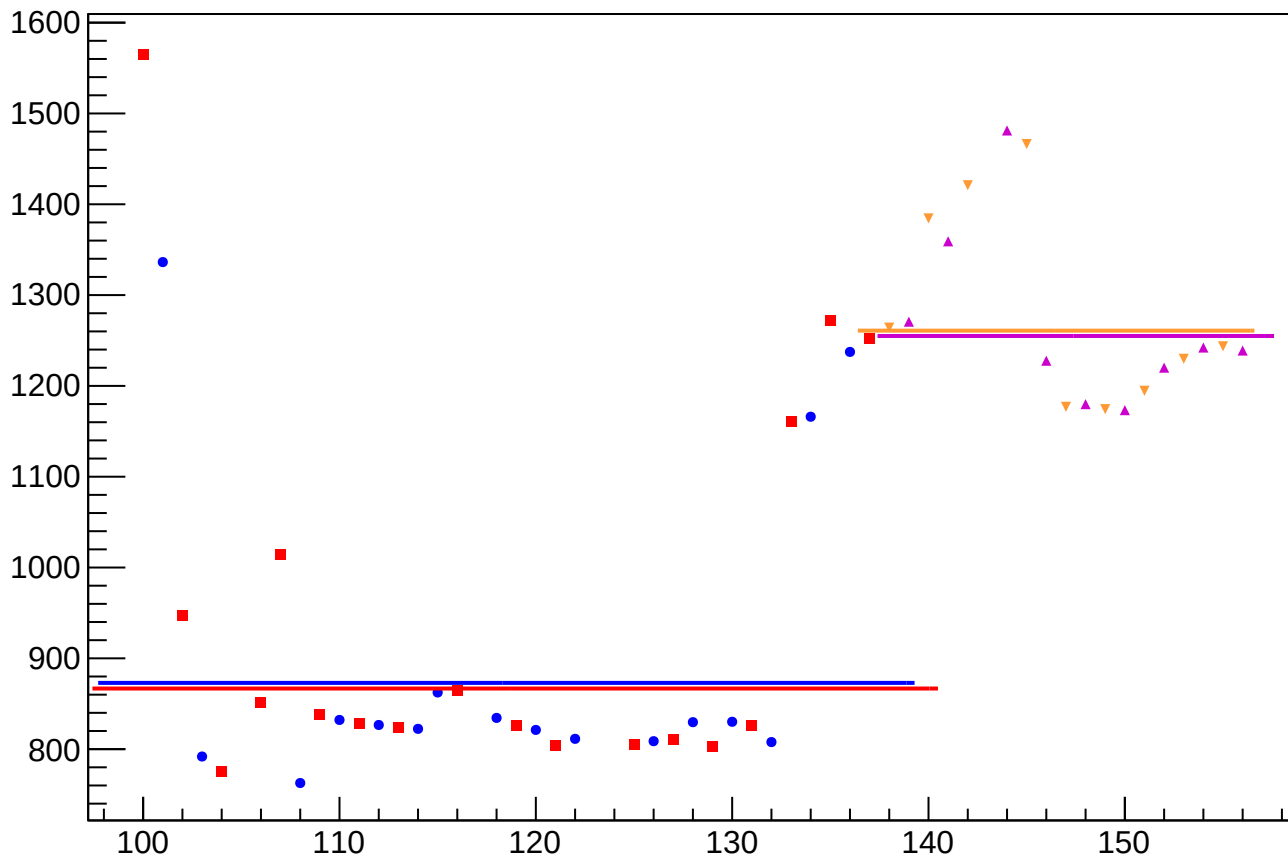
Right: -142.162 $\pm$ 232.690 χ^2/NDF : 36.0/33

In: -286.918 $\pm$ 266.019 χ^2/NDF :17.7/24

Out: 61.601 $\pm$ 270.294 χ^2/NDF :45.9/26

All: -115.437 $\pm$ 189.597 χ^2/NDF : 64.5/51

eigen_dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.972 ± 0.233 χ^2/NDF : 417098.9/15

Left Out: 1260.843 ± 0.337 χ^2/NDF : 80282.8/8

Right Out: 866.772 ± 0.232 χ^2/NDF : 290386.6/17

Left In: 1254.962 ± 0.318 χ^2/NDF : 70950.3/8

Left: 1257.727 ± 0.231 χ^2/NDF : 151394.3/17

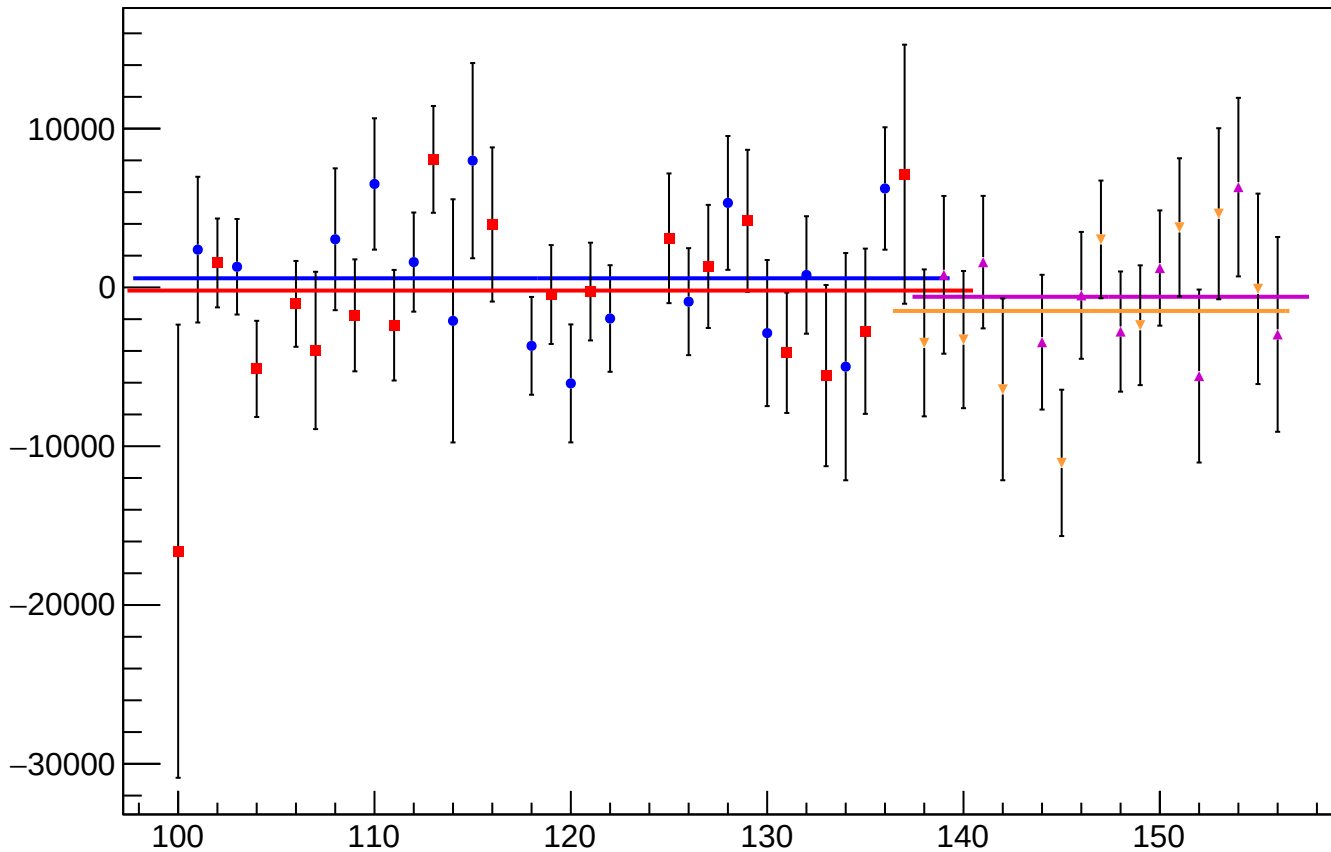
Right: 869.850 ± 0.164 χ^2/NDF : 707840.8/33

In: 1006.867 ± 0.188 χ^2/NDF : 1426886.4/24

Out: 993.176 ± 0.191 χ^2/NDF : 1298129.9/26

All: 1000.126 ± 0.134 χ^2/NDF : 2727624.7/51

asym_usl_atl2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 575.266 $\pm$ 984.885 χ^2 /NDF: 14.7/15

Left Out: -1481.533 $\pm$ 1514.089 χ^2 /NDF:9.8/8

Right Out: -197.955 $\pm$ 894.119 χ^2 /NDF: 17.2/17

Left In: -589.784 $\pm$ 1484.289 χ^2 /NDF:3.9/8

Left: -1026.797 $\pm$ 1059.930 χ^2 /NDF: 13.8/17

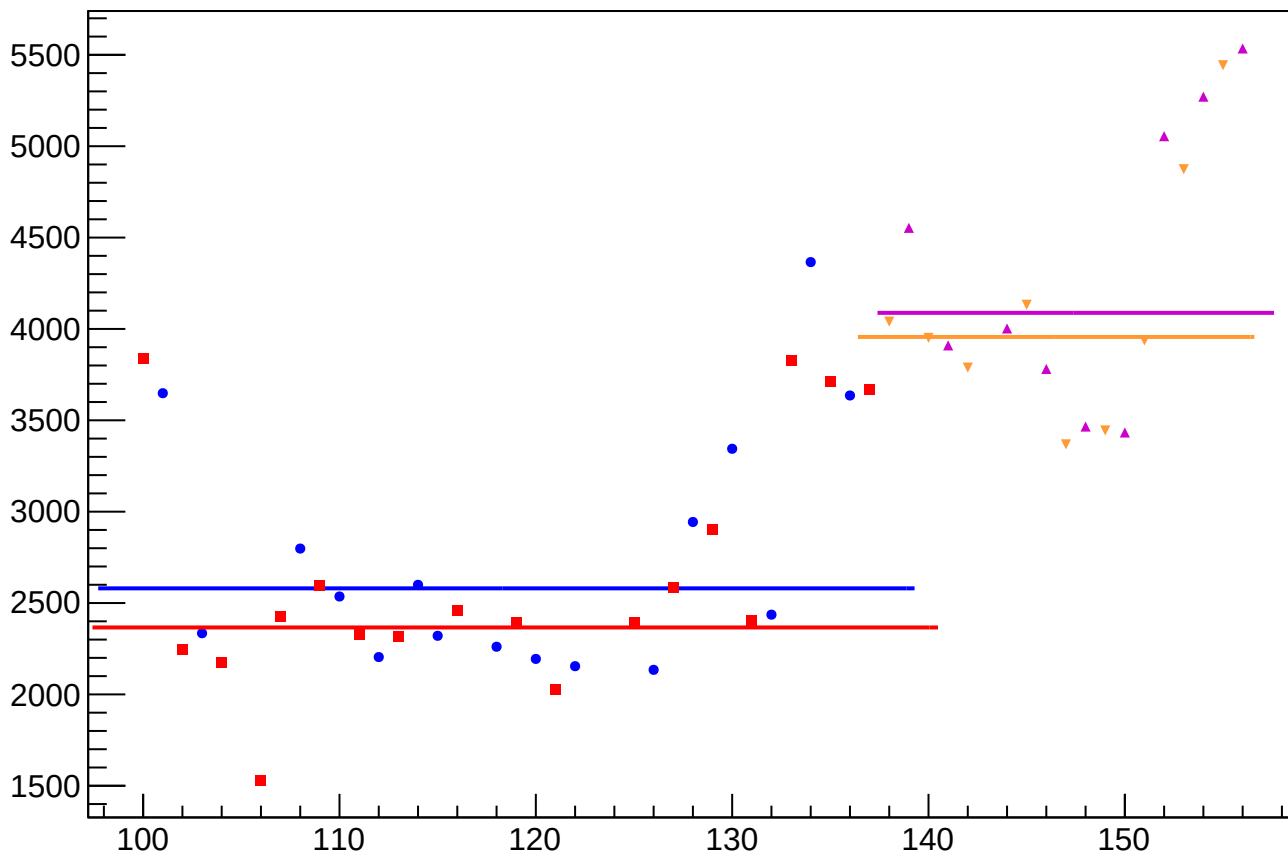
Right: 151.392 $\pm$ 662.006 χ^2 /NDF: 32.2/33

In: 219.118 $\pm$ 820.656 χ^2 /NDF:19.0/24

Out: -529.838 $\pm$ 769.897 χ^2 /NDF:27.5/26

All: -179.237 $\pm$ 561.487 χ^2 /NDF: 46.9/51

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: 3956.270+/-1.071 χ^2/NDF : 273590.7/8

Right Out: 2366.405+/-0.632 χ^2/NDF : 611698.8/17

Left In: 4088.034+/-1.050 χ^2/NDF : 415904.3/8

Left: 4023.461+/-0.749 χ^2/NDF : 697218.9/17

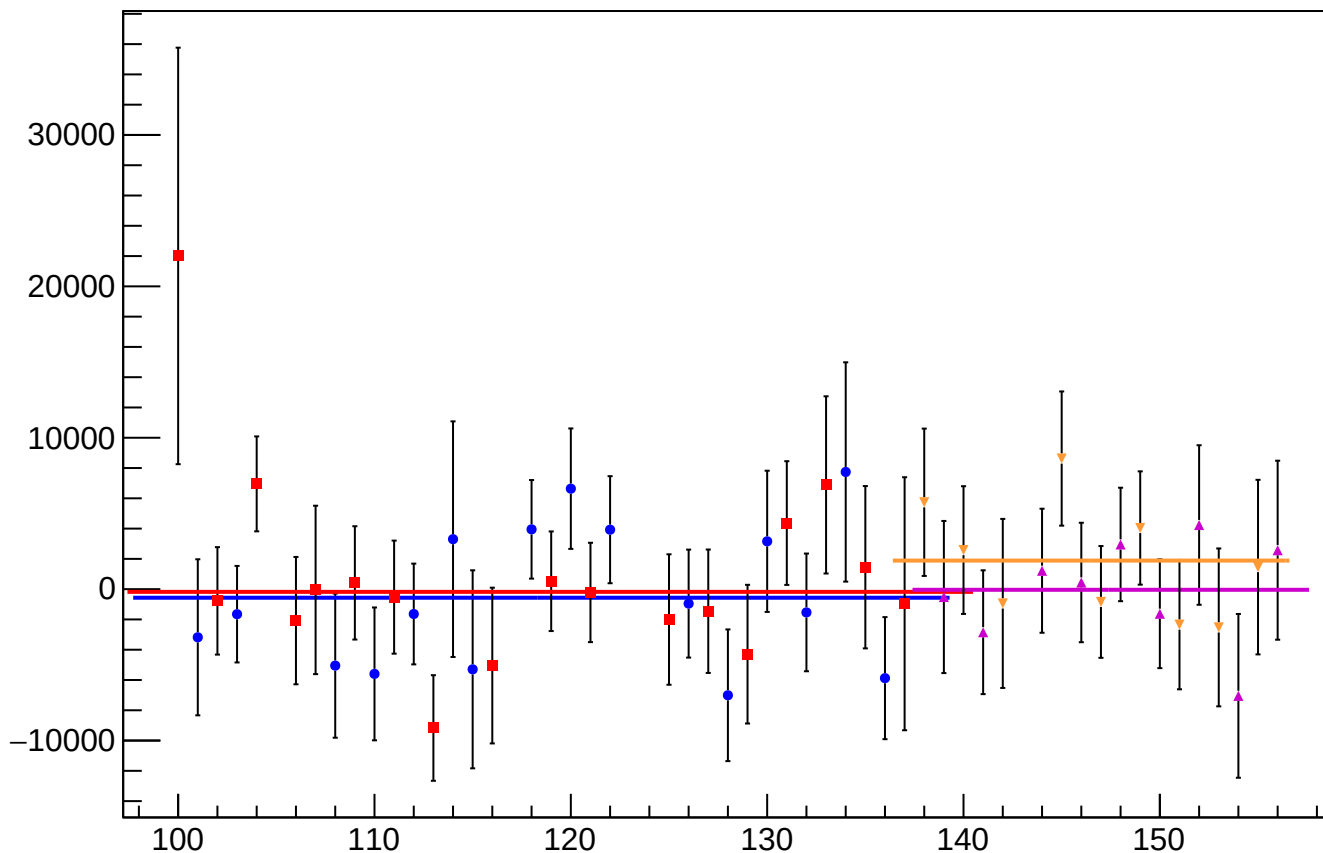
Right: 2463.075+/-0.468 χ^2/NDF : 1280607.2/33

In: 3041.251+/-0.580 χ^2/NDF : 2465765.7/24

Out: 2777.482+/-0.544 χ^2/NDF : 2520308.7/26

All: 2900.958+/-0.397 χ^2/NDF : 5095967.0/51

asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -566.096 ± 1040.314 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 1887.688 ± 1494.261 $\chi^2/\text{NDF}: 5.8/8$

Right Out: -178.586 ± 988.392 $\chi^2/\text{NDF}: 19.5/17$

Left In: -42.136 ± 1457.634 $\chi^2/\text{NDF}: 4.0/8$

Left: 898.835 ± 1043.412 $\chi^2/\text{NDF}: 10.6/17$

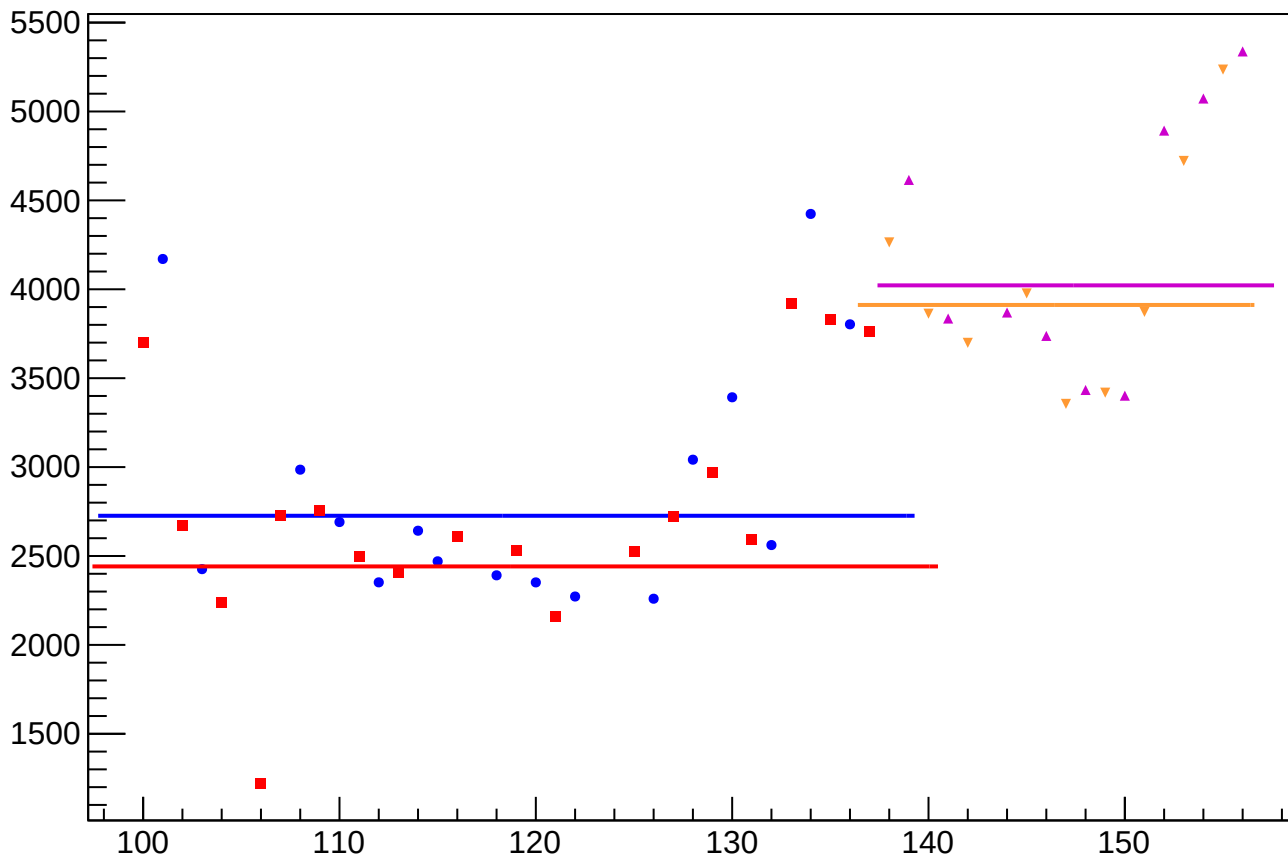
Right: -362.430 ± 716.551 $\chi^2/\text{NDF}: 35.8/33$

In: -389.275 ± 846.773 $\chi^2/\text{NDF}: 20.3/24$

Out: 450.308 ± 824.368 $\chi^2/\text{NDF}: 26.6/26$

All: 41.770 ± 590.678 $\chi^2/\text{NDF}: 47.4/51$

asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 2726.231+/-0.736 χ^2/NDF : 623079.8/15

Left Out: 3911.858+/-1.057 χ^2/NDF : 248096.5/8

Right Out: 2441.363+/-0.667 χ^2/NDF : 891132.7/17

Left In: 4022.041+/-1.031 χ^2/NDF : 383149.4/8

Left: 3968.317+/-0.738 χ^2/NDF : 636818.0/17

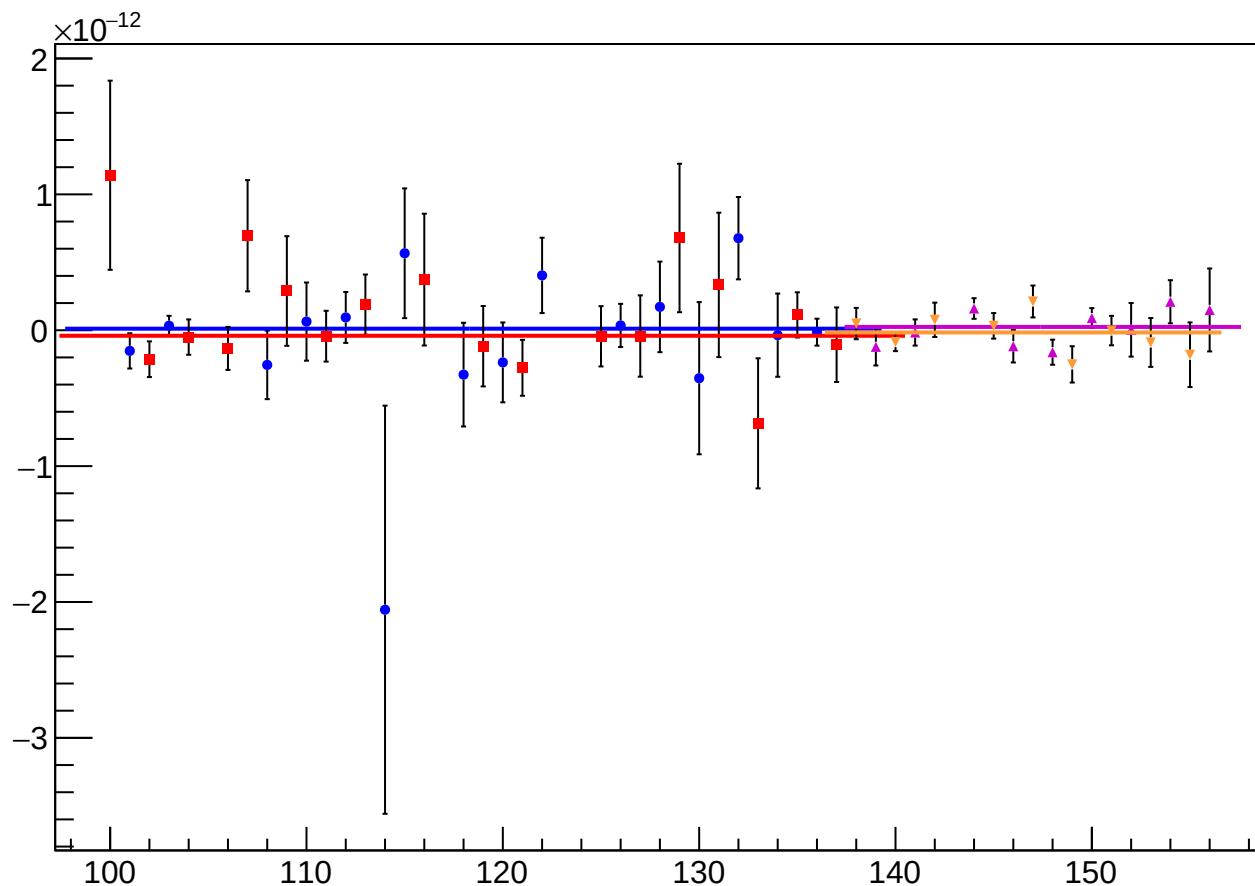
Right: 2569.883+/-0.494 χ^2/NDF : 1596520.0/33

In: 3163.529+/-0.599 χ^2/NDF : 2053408.0/24

Out: 2860.325+/-0.564 χ^2/NDF : 2524273.6/26

All: 3002.867+/-0.411 χ^2/NDF : 4713557.7/51

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 : 9.8/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 12.3/8

Left: 0.000+/-0.000 χ^2/NDF : 22.7/17

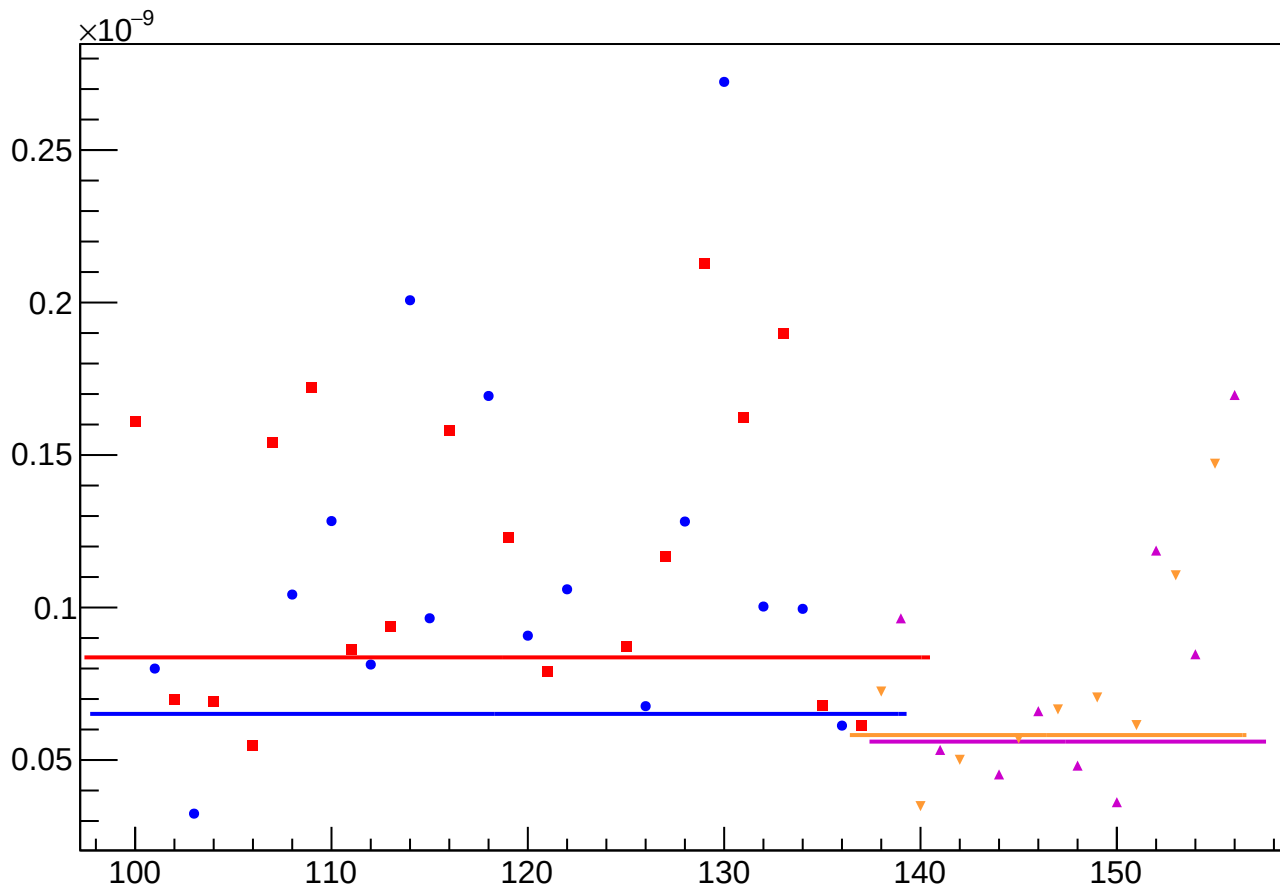
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: 0.000+/-0.000 χ^2/NDF : 27.8/24

Out: -0.000+/-0.000 χ^2/NDF : 26.9/26

All: -0.000+/-0.000 χ^2/NDF : 55.8/51

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 : 760443.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 691494.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 934818.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1698761.6/17

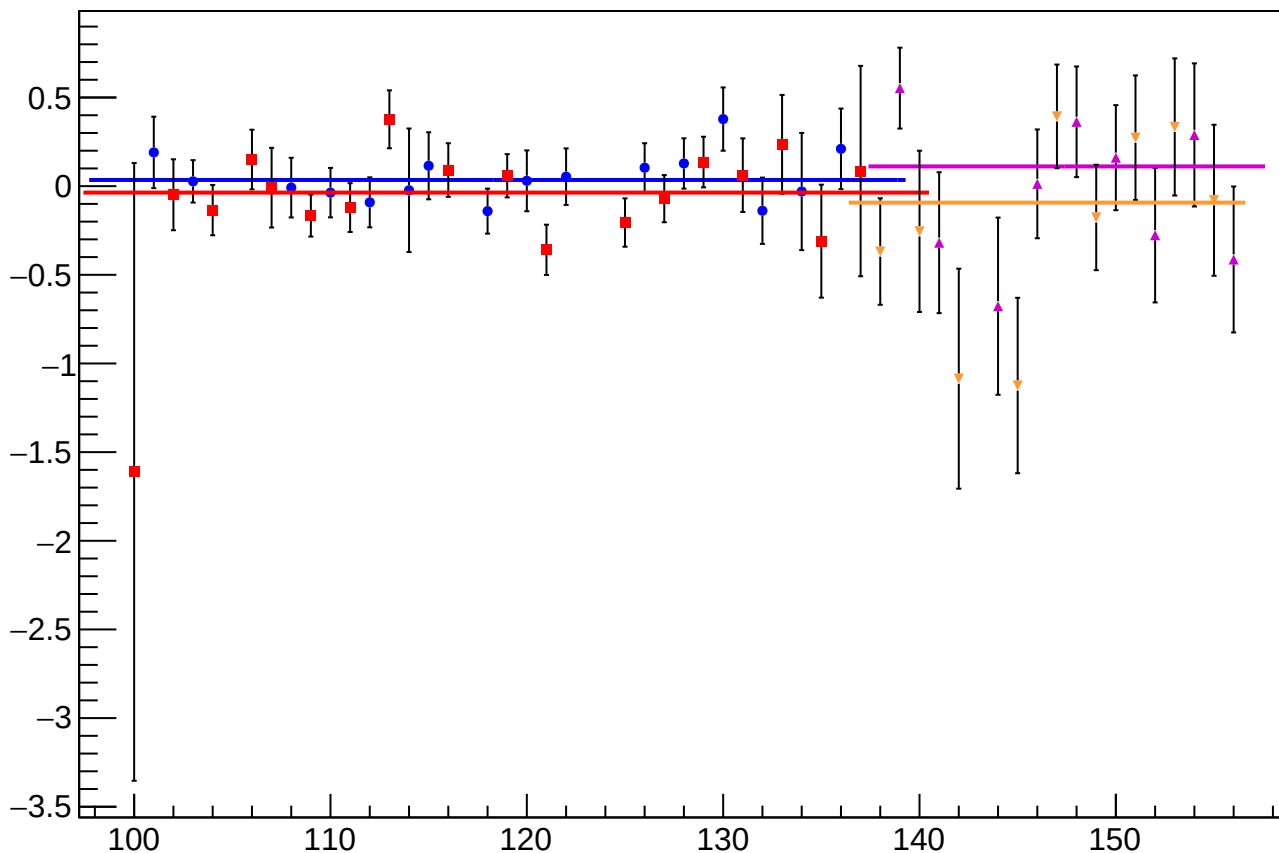
Right: 0.000+/-0.000 χ^2/NDF : 2057625.5/33

In: 0.000+/-0.000 χ^2/NDF : 2208821.4/24

Out: 0.000+/-0.000 χ^2/NDF : 1760812.2/26

All: 0.000+/-0.000 χ^2/NDF : 4024027.7/51

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: -0.093 ± 0.123 $\chi^2/\text{NDF}: 13.0/8$

Right Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 22.0/17$

Left In: 0.111 ± 0.111 $\chi^2/\text{NDF}: 11.1/8$

Left: 0.020 ± 0.083 $\chi^2/\text{NDF}: 25.6/17$

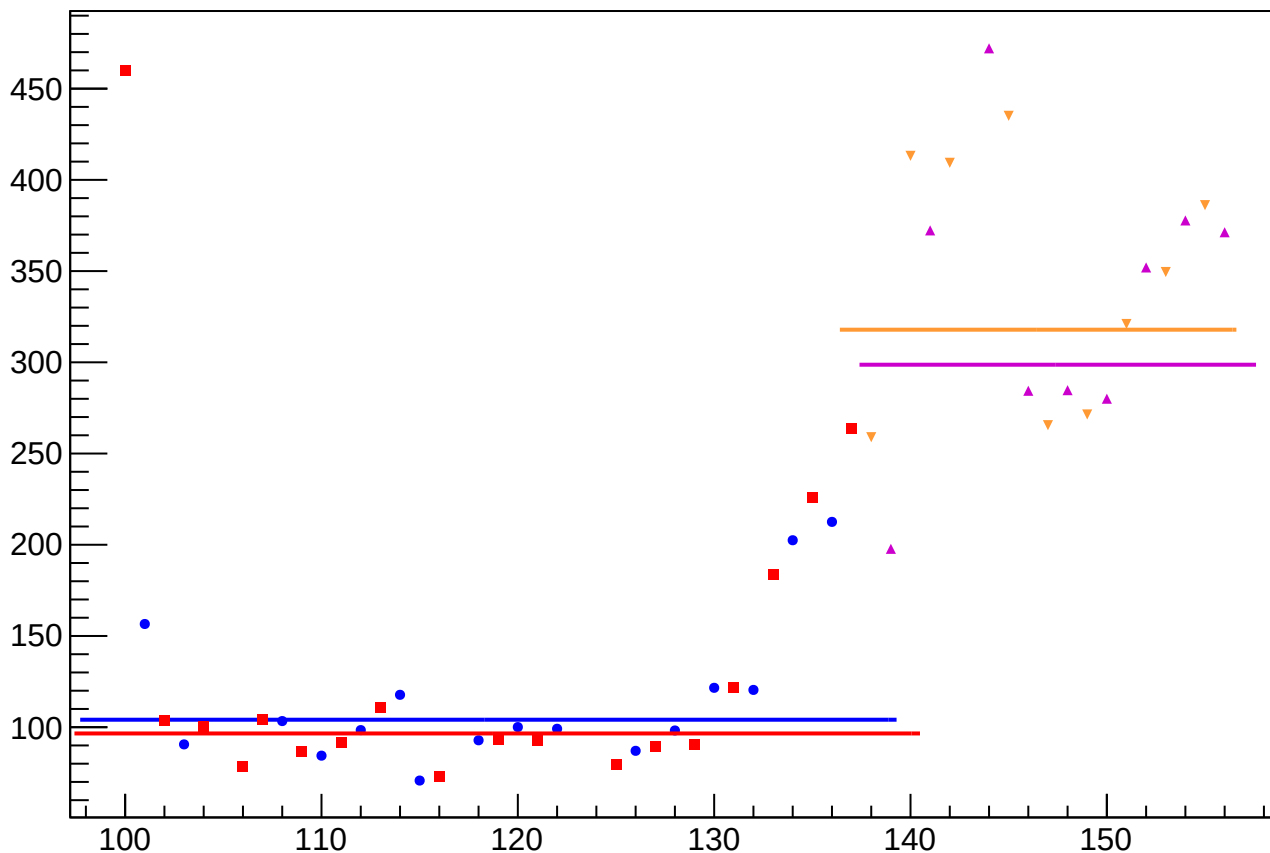
Right: -0.003 ± 0.028 $\chi^2/\text{NDF}: 33.4/33$

In: 0.044 ± 0.038 $\chi^2/\text{NDF}: 21.2/24$

Out: -0.041 ± 0.037 $\chi^2/\text{NDF}: 35.3/26$

All: -0.000 ± 0.027 $\chi^2/\text{NDF}: 59.1/51$

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: 317.879+/-0.087 χ^2/NDF : 498466.2/8

Right Out: 96.569+/-0.028 χ^2/NDF : 955547.2/17

Left In: 298.682+/-0.079 χ^2/NDF : 895805.8/8

Left: 307.305+/-0.058 χ^2/NDF : 1421035.0/17

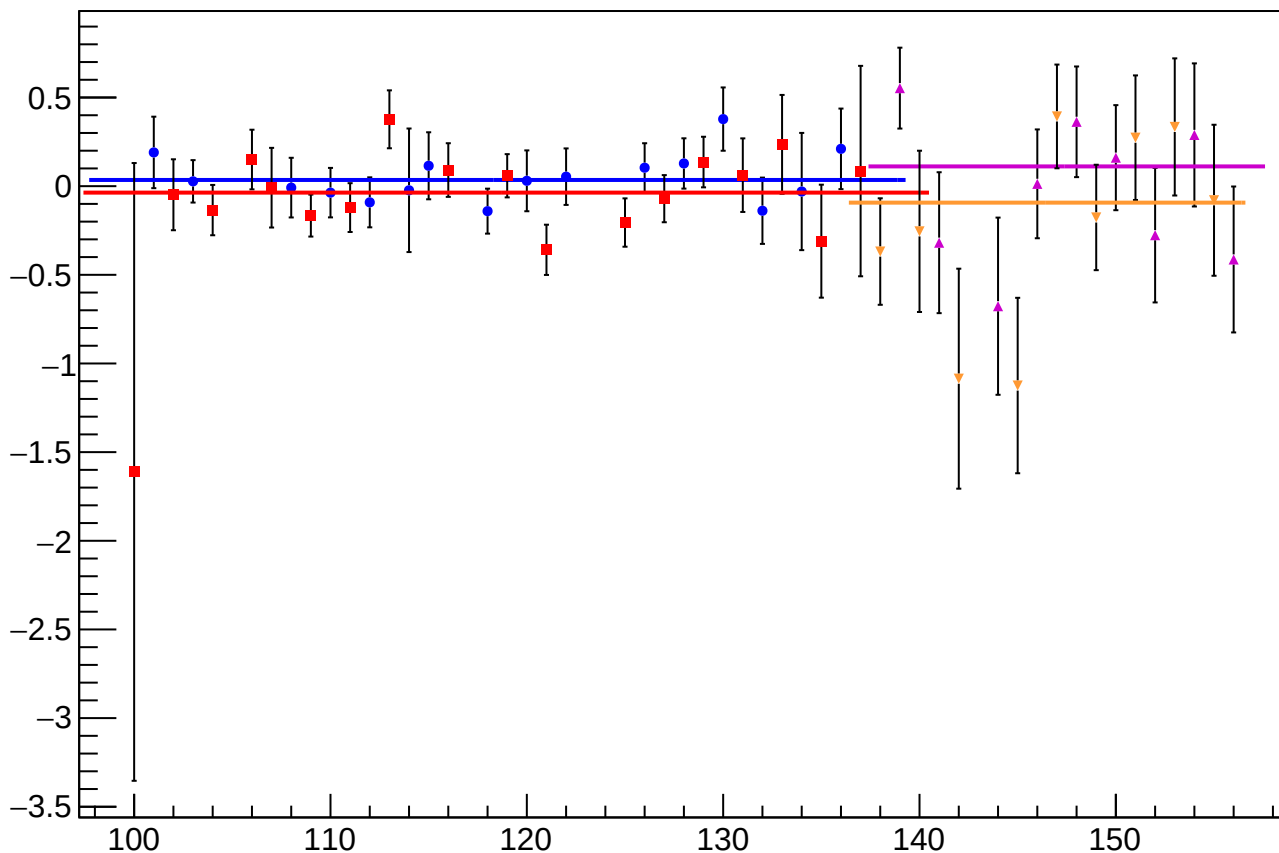
Right: 100.134+/-0.020 χ^2/NDF : 1980876.5/33

In: 127.407+/-0.027 χ^2/NDF : 7273623.7/24

Out: 116.641+/-0.026 χ^2/NDF : 7325230.1/26

All: 121.825+/-0.019 χ^2/NDF : 14679973.3/53

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 χ^2/NDF : 9.8/15

Left Out: -0.093 ± 0.123 χ^2/NDF : 13.0/8

Right Out: -0.036 ± 0.039 χ^2/NDF : 22.0/17

Left In: 0.111 ± 0.111 χ^2/NDF : 11.1/8

Left: 0.020 ± 0.083 χ^2/NDF : 25.6/17

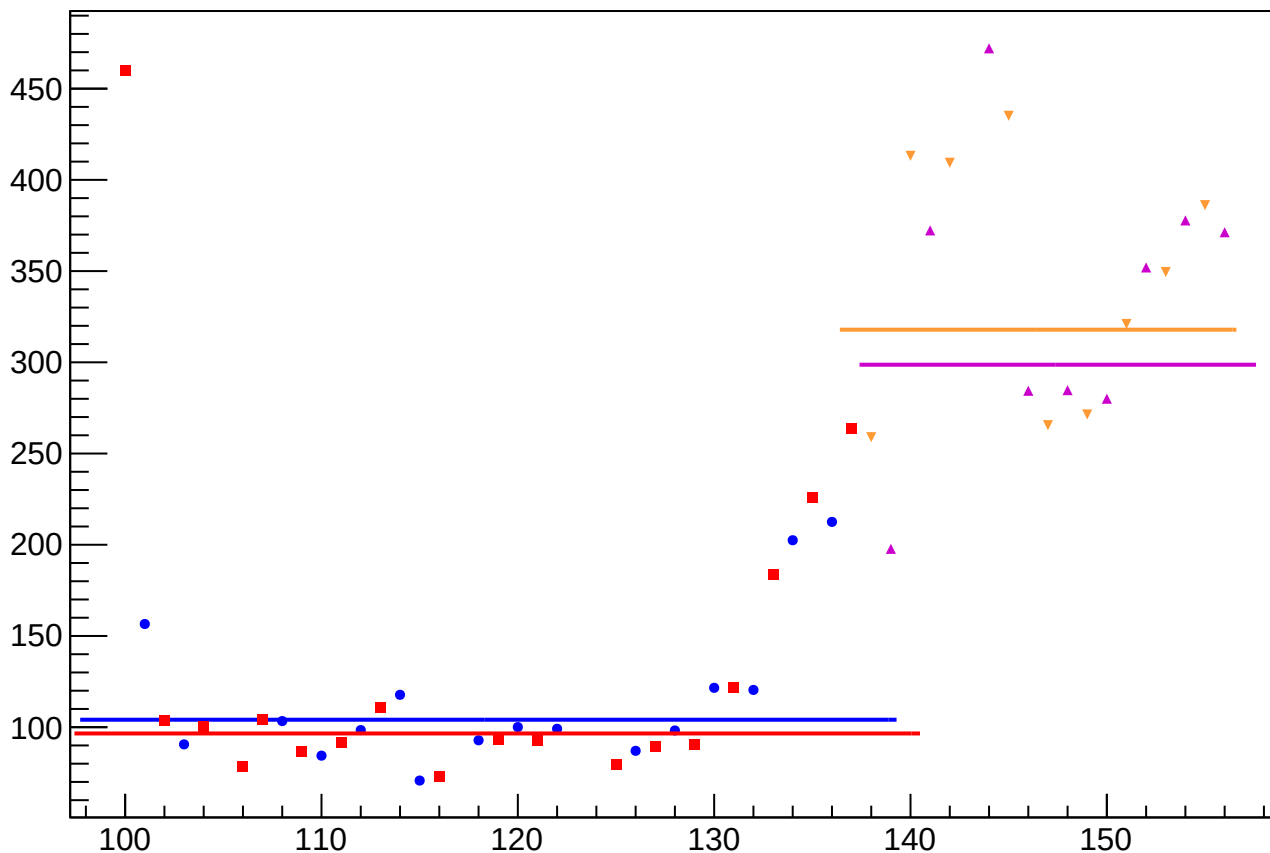
Right: -0.003 ± 0.028 χ^2/NDF : 33.4/33

In: 0.044 ± 0.038 χ^2/NDF : 21.2/24

Out: -0.041 ± 0.037 χ^2/NDF : 35.3/26

All: -0.000 ± 0.027 χ^2/NDF : 59.1/51

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.099 ± 0.029 $\chi^2/\text{NDF}: 989856.1/15$

Left Out: 317.879 ± 0.087 $\chi^2/\text{NDF}: 498466.2/8$

Right Out: 96.569 ± 0.028 $\chi^2/\text{NDF}: 955547.2/17$

Left In: 298.682 ± 0.079 $\chi^2/\text{NDF}: 895805.8/8$

Left: 307.305 ± 0.058 $\chi^2/\text{NDF}: 1421035.0/17$

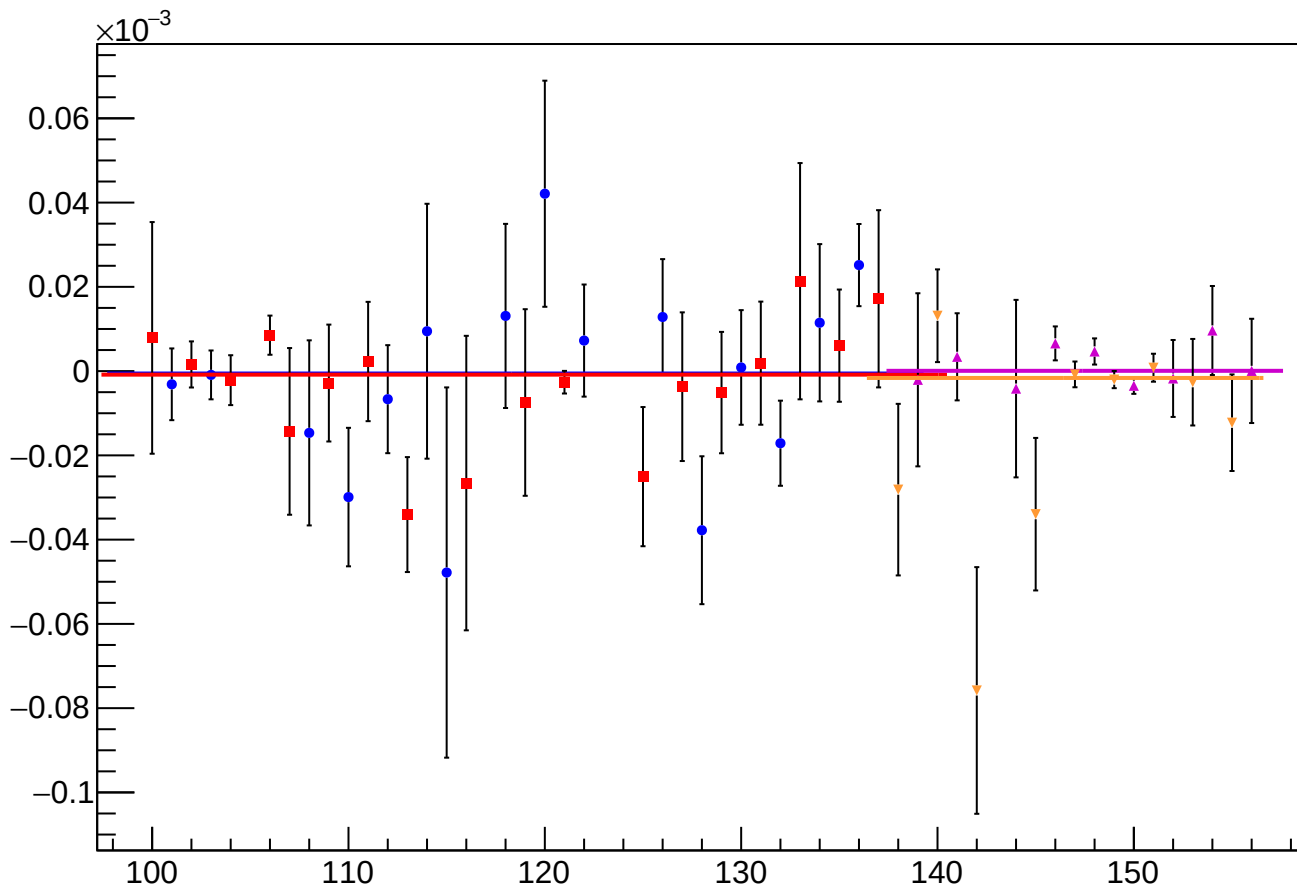
Right: 100.134 ± 0.020 $\chi^2/\text{NDF}: 1980876.5/33$

In: 127.407 ± 0.027 $\chi^2/\text{NDF}: 7273623.7/24$

Out: 116.641 ± 0.026 $\chi^2/\text{NDF}: 7325230.1/26$

All: 121.825 ± 0.019 $\chi^2/\text{NDF}: 14679973.3/51$

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 : 14.6/8

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.9/17

Left In: 0.000 ± 0.000 χ^2/NDF : 9.2/8

Left: -0.000 ± 0.000 χ^2/NDF : 24.5/17

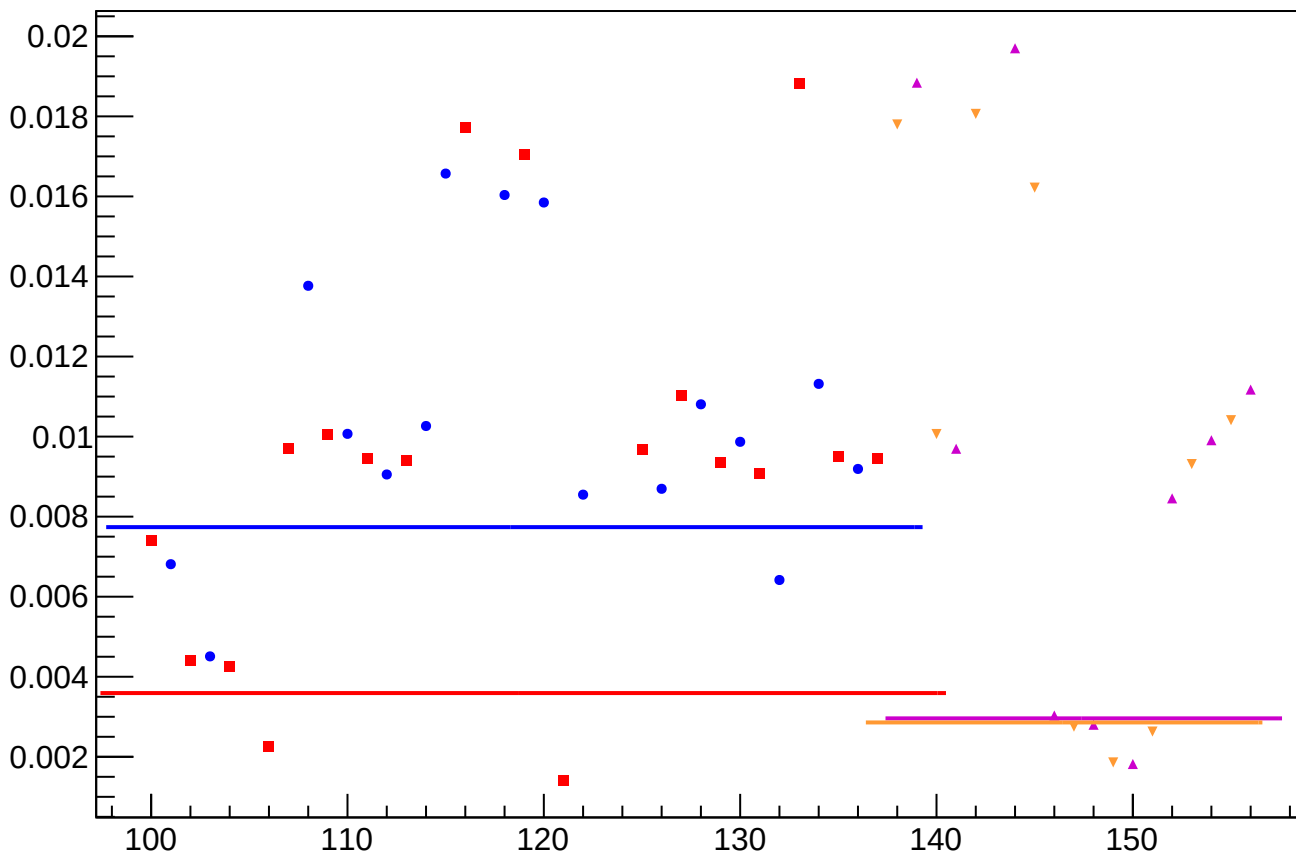
Right: -0.000 ± 0.000 χ^2/NDF : 39.8/33

In: -0.000 ± 0.000 χ^2/NDF : 33.2/24

Out: -0.000 ± 0.000 χ^2/NDF : 30.6/26

All: -0.000 ± 0.000 χ^2/NDF : 64.3/51

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: 0.003+/-0.000 χ^2/NDF : 5714408.3/8

Right Out: 0.004+/-0.000 χ^2/NDF : 6364883.4/17

Left In: 0.003+/-0.000 χ^2/NDF : 6487445.9/8

Left: 0.003+/-0.000 χ^2/NDF : 12206768.1/17

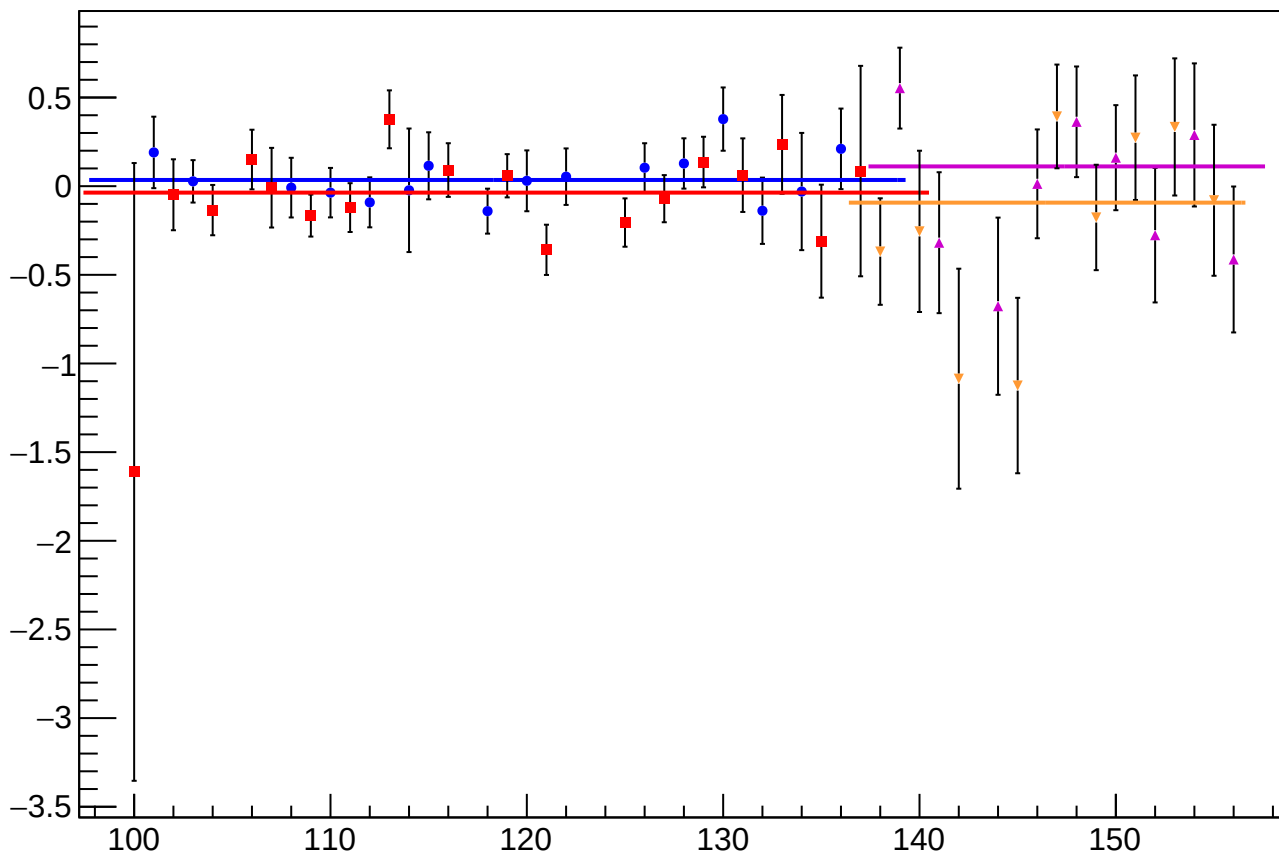
Right: 0.005+/-0.000 χ^2/NDF : 10695382.9/33

In: 0.004+/-0.000 χ^2/NDF : 12065240.0/24

Out: 0.003+/-0.000 χ^2/NDF : 12274742.3/26

All: 0.003+/-0.000 χ^2/NDF : 24636058.3/51

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 χ^2/NDF : 9.8/15

Left Out: -0.093 ± 0.123 χ^2/NDF : 13.0/8

Right Out: -0.036 ± 0.039 χ^2/NDF : 22.0/17

Left In: 0.111 ± 0.111 χ^2/NDF : 11.1/8

Left: 0.020 ± 0.083 χ^2/NDF : 25.6/17

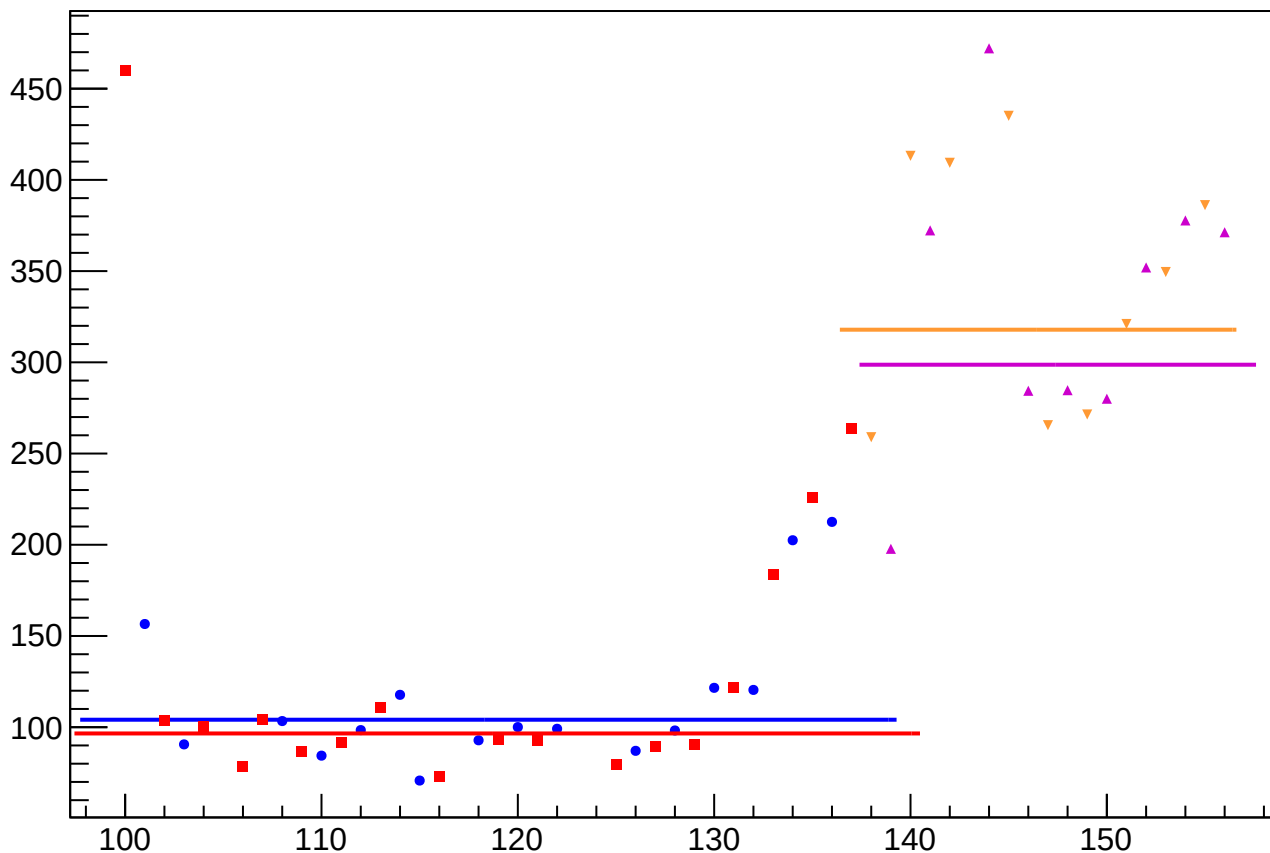
Right: -0.003 ± 0.028 χ^2/NDF : 33.4/33

In: 0.044 ± 0.038 χ^2/NDF : 21.2/24

Out: -0.041 ± 0.037 χ^2/NDF : 35.3/26

All: -0.000 ± 0.027 χ^2/NDF : 59.1/51

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: 317.882 $\pm$ 0.087 χ^2/NDF : 498507.6/8

Right Out: 96.570 $\pm$ 0.028 χ^2/NDF : 955477.2/17

Left In: 298.686 $\pm$ 0.079 χ^2/NDF : 895794.1/8

Left: 307.308 $\pm$ 0.058 χ^2/NDF : 1421058.8/17

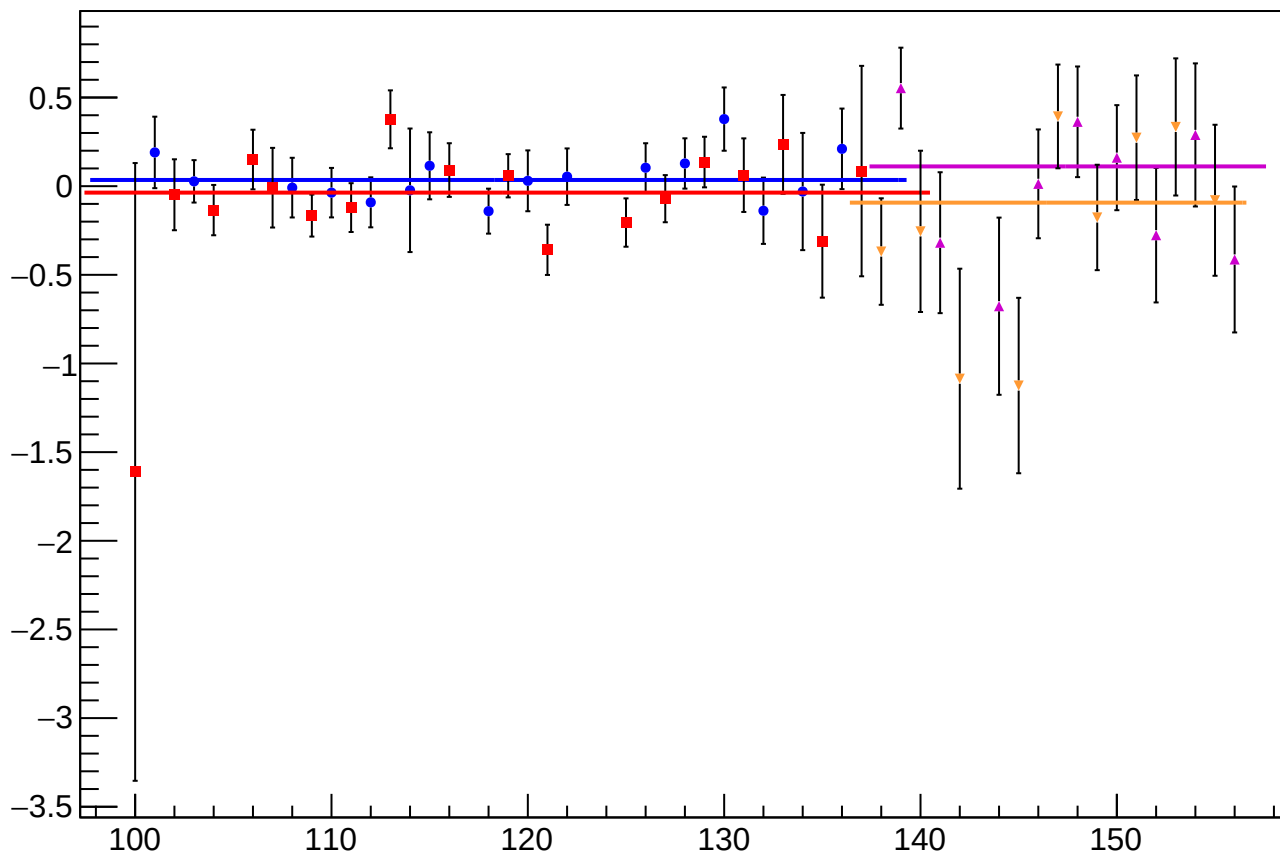
Right: 100.135 $\pm$ 0.020 χ^2/NDF : 1980754.7/33

In: 127.408 $\pm$ 0.027 χ^2/NDF : 7273612.8/24

Out: 116.643 $\pm$ 0.026 χ^2/NDF : 7325155.2/26

All: 121.826 $\pm$ 0.019 χ^2/NDF : 14679879.1/51

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: -0.093 ± 0.123 χ^2/NDF : 13.0/8

Right Out: -0.036 ± 0.039 χ^2/NDF : 22.0/17

Left In: 0.111 ± 0.111 χ^2/NDF : 11.1/8

Left: 0.020 ± 0.083 χ^2/NDF : 25.6/17

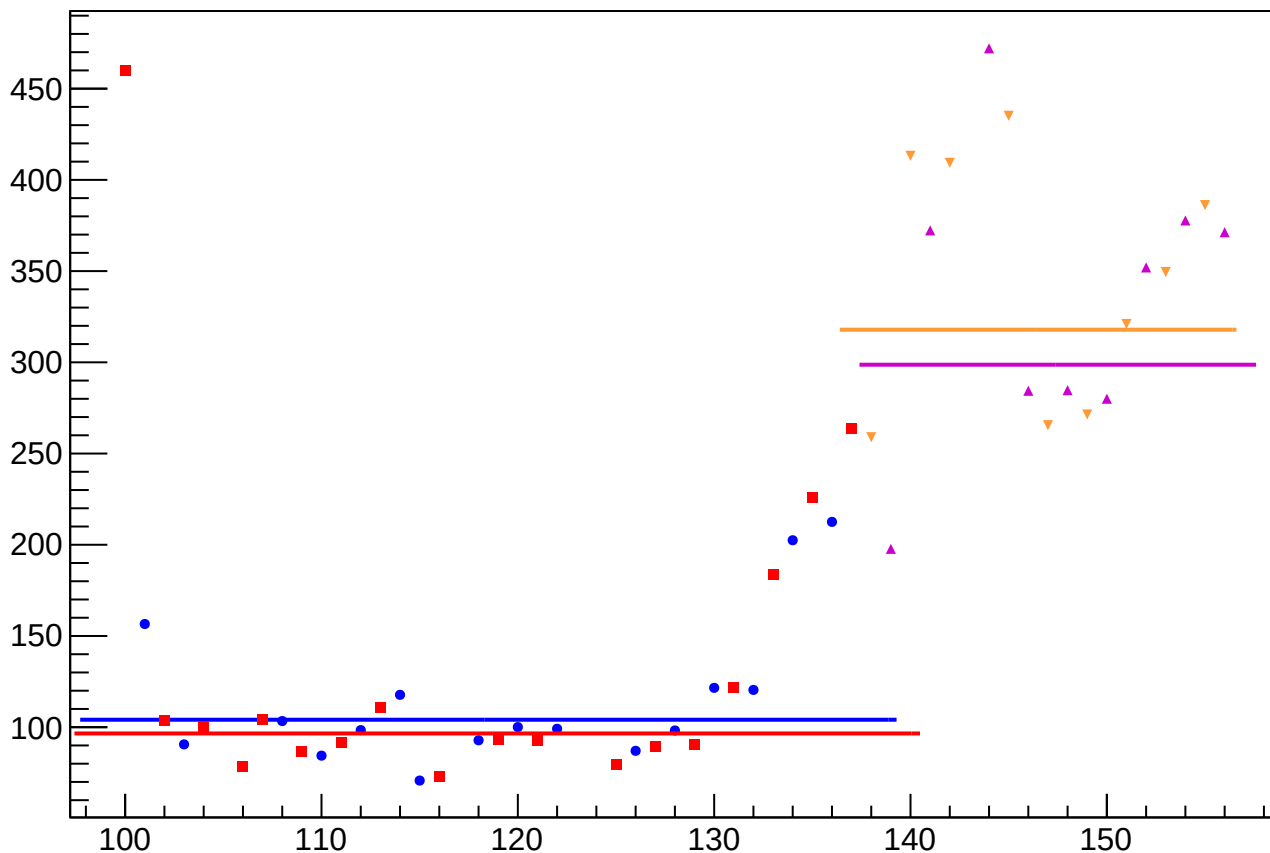
Right: -0.003 ± 0.028 χ^2/NDF : 33.4/33

In: 0.044 ± 0.038 χ^2/NDF : 21.2/24

Out: -0.041 ± 0.037 χ^2/NDF : 35.3/26

All: -0.000 ± 0.027 χ^2/NDF : 59.1/51

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.100+/-0.029 χ^2/NDF : 989809.0/15

Left Out: 317.882+/-0.087 χ^2/NDF : 498507.6/8

Right Out: 96.570+/-0.028 χ^2/NDF : 955477.2/17

Left In: 298.686+/-0.079 χ^2/NDF : 895794.1/8

Left: 307.308+/-0.058 χ^2/NDF : 1421058.8/17

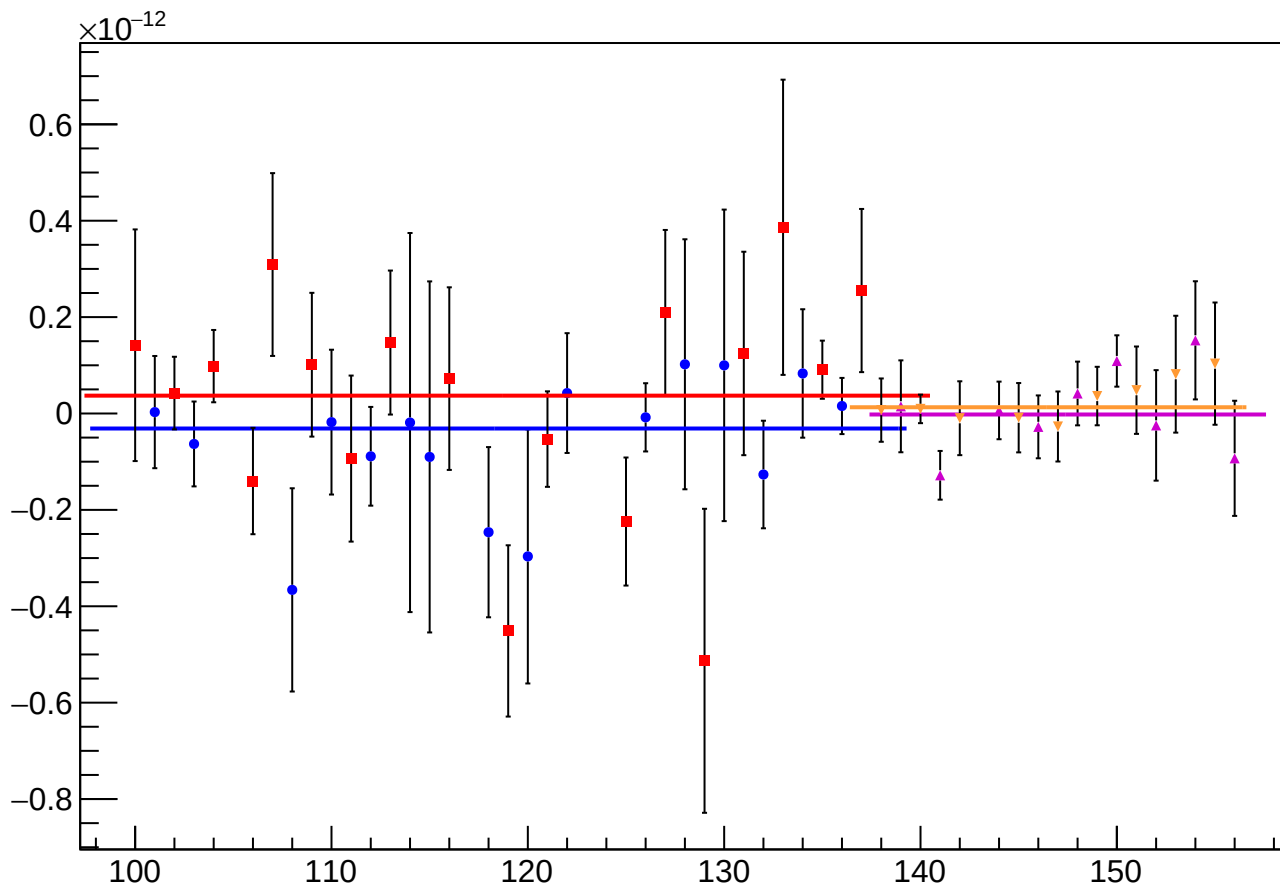
Right: 100.135+/-0.020 χ^2/NDF : 1980754.7/33

In: 127.408+/-0.027 χ^2/NDF : 7273612.8/24

Out: 116.643+/-0.026 χ^2/NDF : 7325155.2/26

All: 121.826+/-0.019 χ^2/NDF : 14679879.1/53

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 : 1.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 27.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 13.4/8

Left: 0.000+/-0.000 χ^2/NDF : 15.3/17

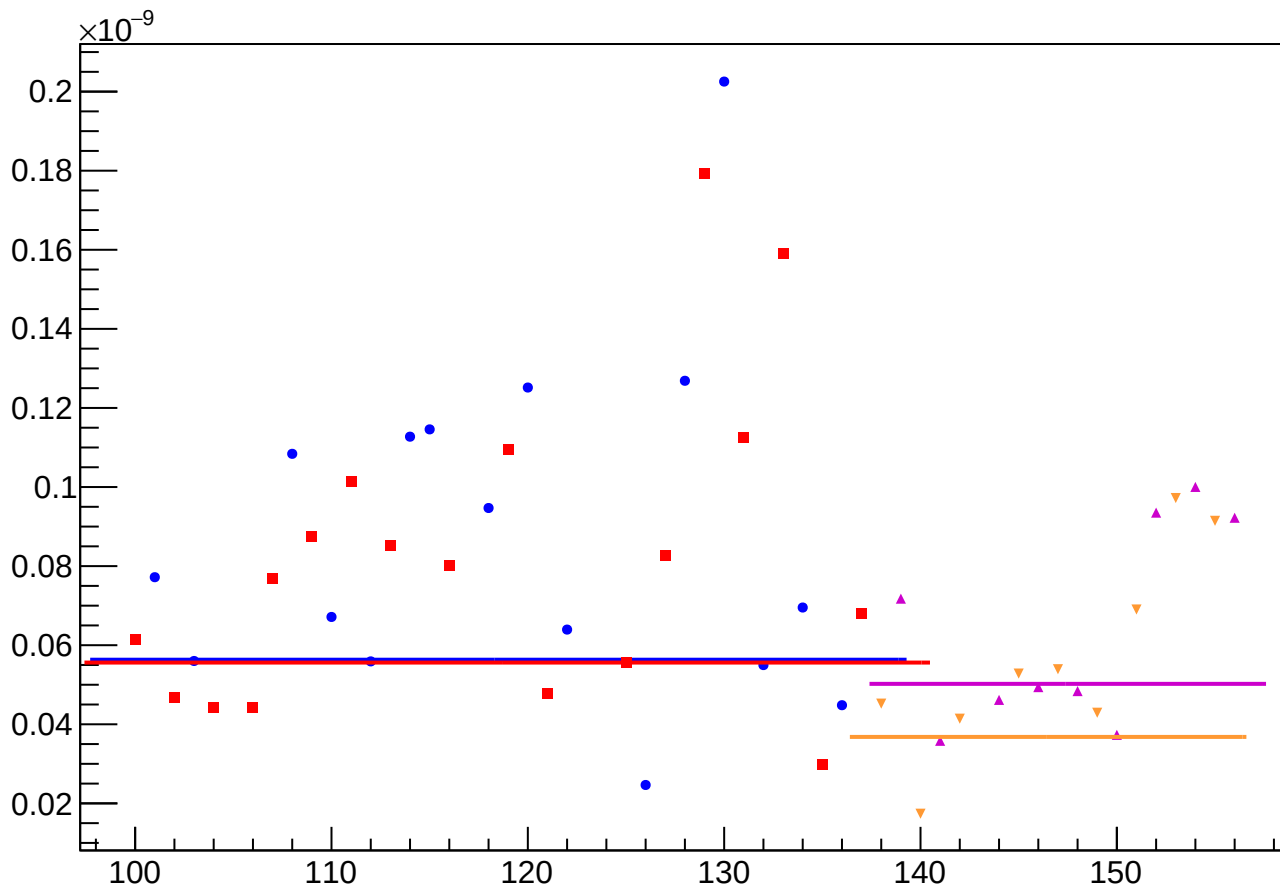
Right: 0.000+/-0.000 χ^2/NDF : 38.4/33

In: -0.000+/-0.000 χ^2/NDF : 22.6/24

Out: 0.000+/-0.000 χ^2/NDF : 29.2/26

All: 0.000+/-0.000 χ^2/NDF : 53.7/51

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 : 2252028.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1767462.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 1255539.7/8

Left: 0.000+/-0.000 χ^2/NDF : 3882390.0/17

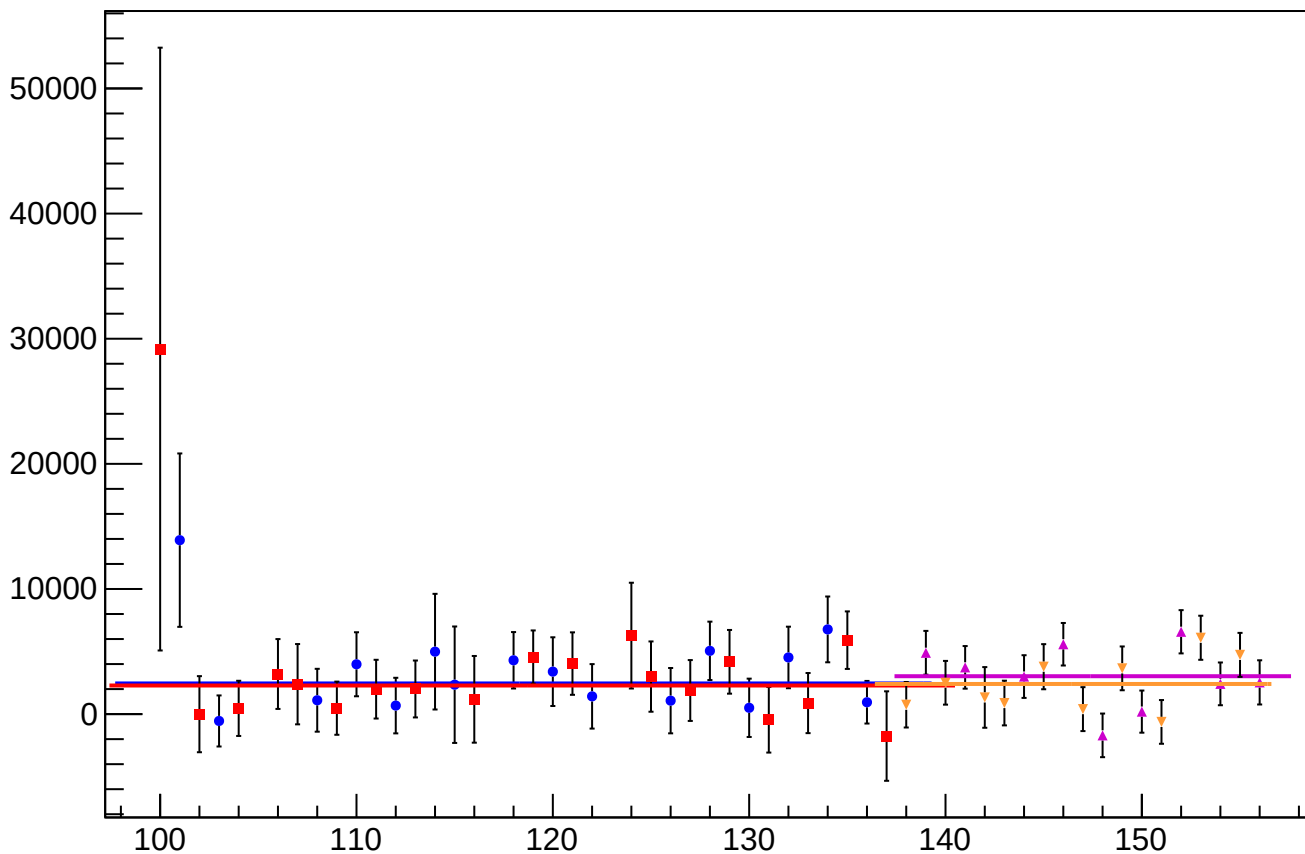
Right: 0.000+/-0.000 χ^2/NDF : 3350763.8/33

In: 0.000+/-0.000 χ^2/NDF : 2890536.4/24

Out: 0.000+/-0.000 χ^2/NDF : 4591948.4/26

All: 0.000+/-0.000 χ^2/NDF : 7781858.1/51

reg_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.957+/-630.235 χ^2/NDF : 13.8/15

Left Out: 2408.336+/-572.929 χ^2/NDF :13.3/9

Right Out: 2286.573+/-609.157 χ^2/NDF : 11.8/18

Left In: 3028.928+/-573.322 χ^2/NDF :18.2/8

Left: 2718.419+/-405.261 χ^2/NDF : 32.1/18

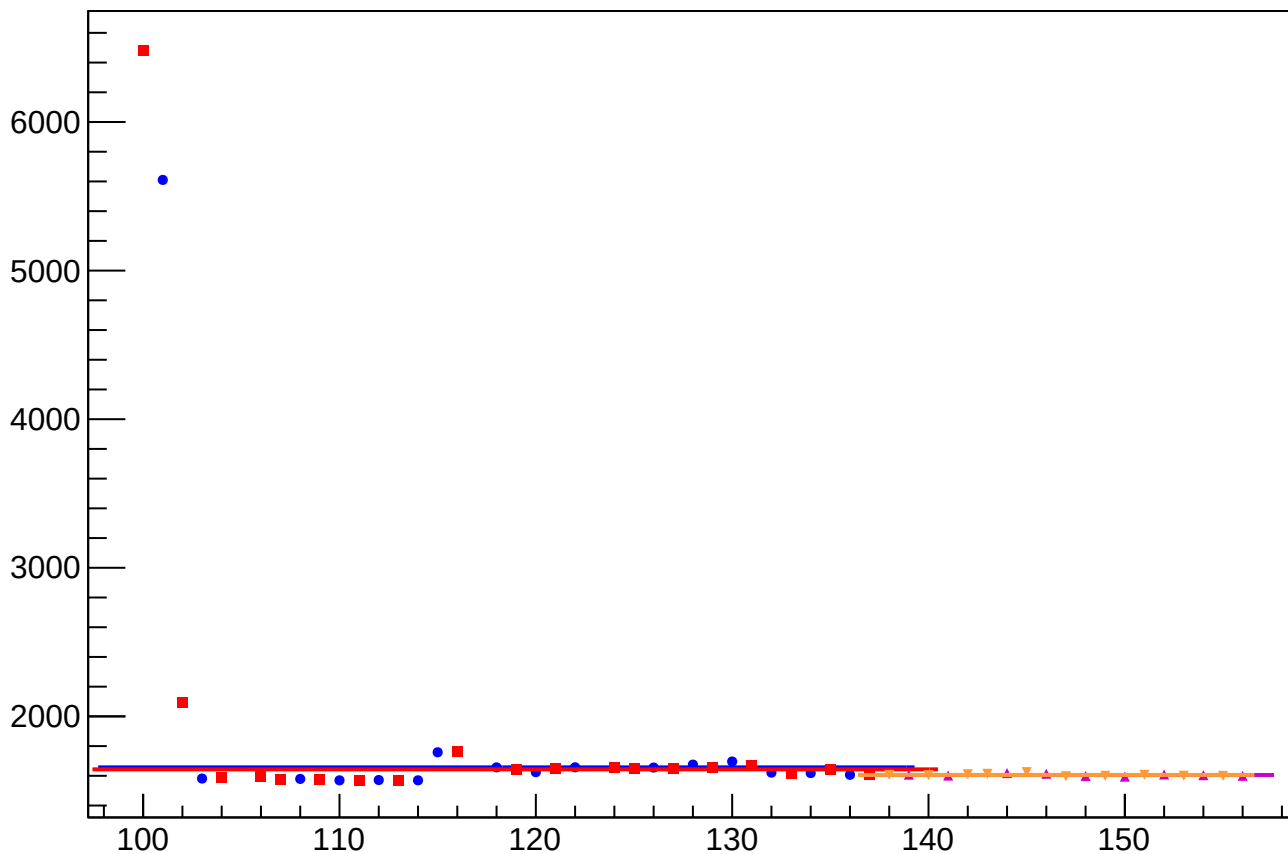
Right: 2365.487+/-438.001 χ^2/NDF : 25.7/34

In: 2766.759+/-424.096 χ^2/NDF :32.5/24

Out: 2351.183+/-417.342 χ^2/NDF :25.2/28

All: 2555.635+/-297.465 χ^2/NDF : 58.2/53

reg_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683+/-0.446 χ^2/NDF : 666226.2/15

Left Out: 1605.827+/-0.405 χ^2/NDF : 384.6/9

Right Out: 1643.430+/-0.431 χ^2/NDF : 136997.9/18

Left In: 1605.558+/-0.405 χ^2/NDF : 323.9/8

Left: 1605.692+/-0.287 χ^2/NDF : 708.7/18

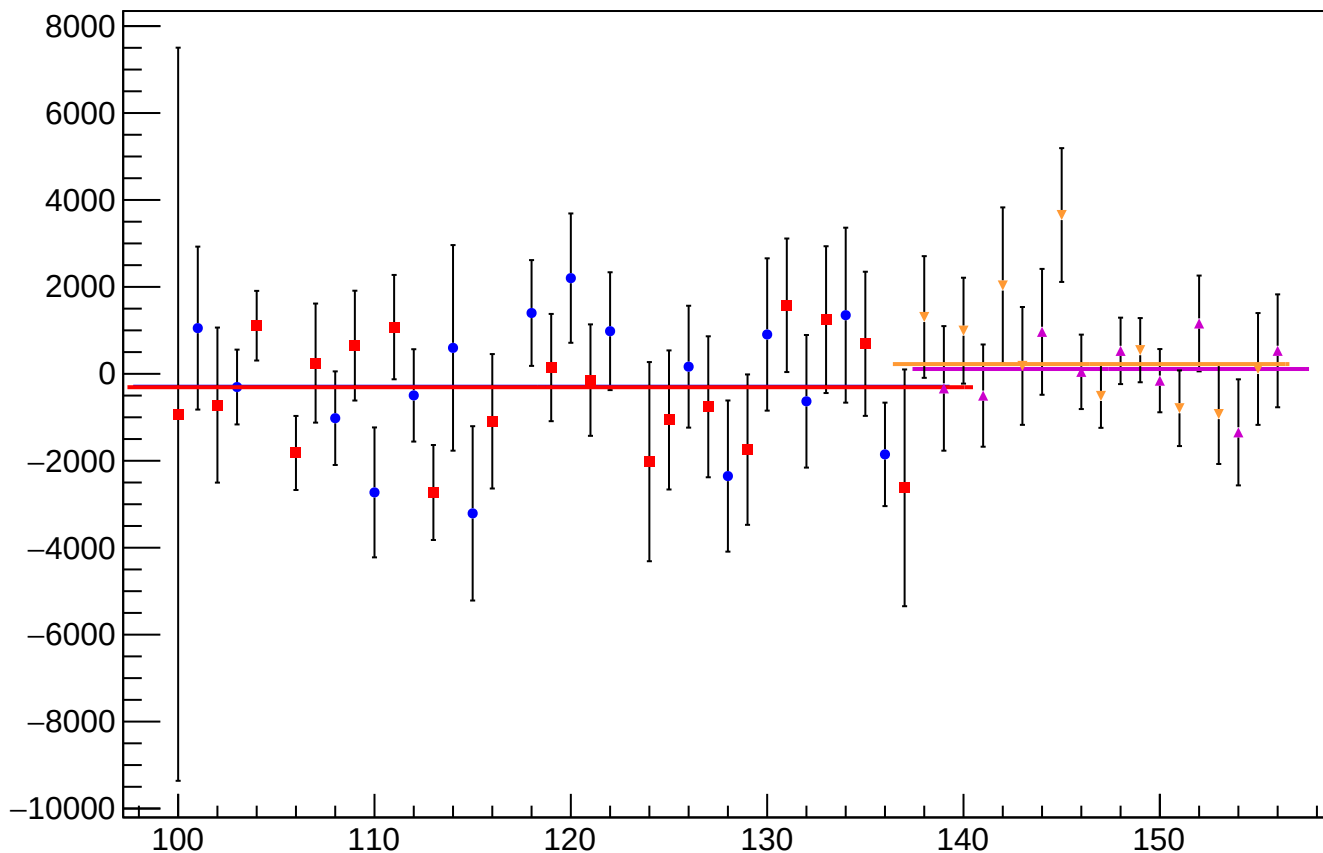
Right: 1649.831+/-0.310 χ^2/NDF : 803681.3/34

In: 1628.708+/-0.300 χ^2/NDF : 673751.8/24

Out: 1623.477+/-0.295 χ^2/NDF : 141426.4/28

All: 1626.051+/-0.210 χ^2/NDF : 815332.8/53

asym_usr_atr1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -296.450 ± 343.436 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 224.507 ± 336.428 $\chi^2/\text{NDF}: 10.5/9$

Right Out: -307.671 ± 312.976 $\chi^2/\text{NDF}: 18.7/18$

Left In: 111.039 ± 338.197 $\chi^2/\text{NDF}: 3.6/8$

Left: 168.070 ± 238.513 $\chi^2/\text{NDF}: 14.2/18$

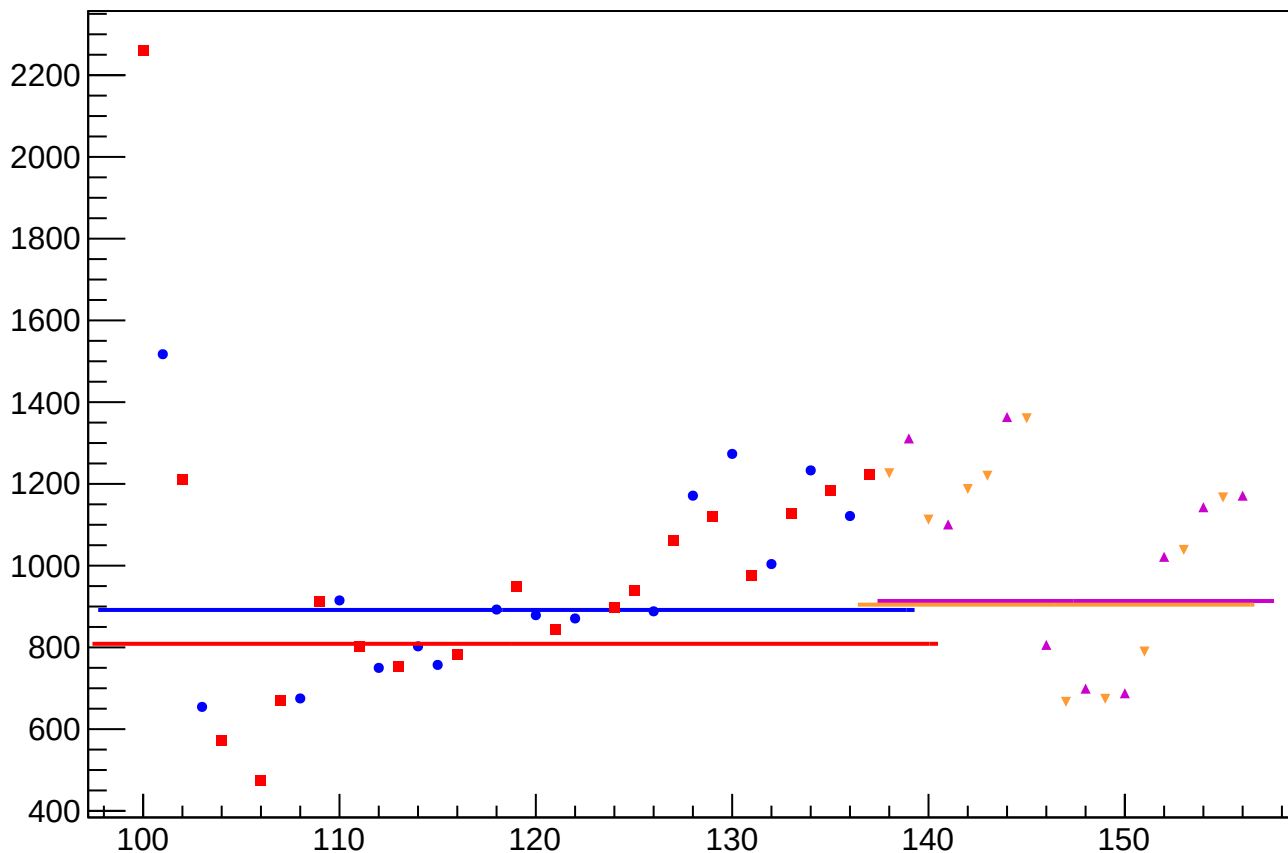
Right: -302.580 ± 231.328 $\chi^2/\text{NDF}: 34.7/34$

In: -89.574 ± 240.972 $\chi^2/\text{NDF}: 20.3/24$

Out: -60.775 ± 229.150 $\chi^2/\text{NDF}: 30.6/28$

All: -74.451 ± 166.056 $\chi^2/\text{NDF}: 50.9/53$

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: 904.588+/-0.238 χ^2/NDF : 1047330.6/9

Right Out: 808.809+/-0.221 χ^2/NDF : 1083841.8/18

Left In: 913.511+/-0.239 χ^2/NDF : 948450.9/8

Left: 909.026+/-0.169 χ^2/NDF : 1996481.2/18

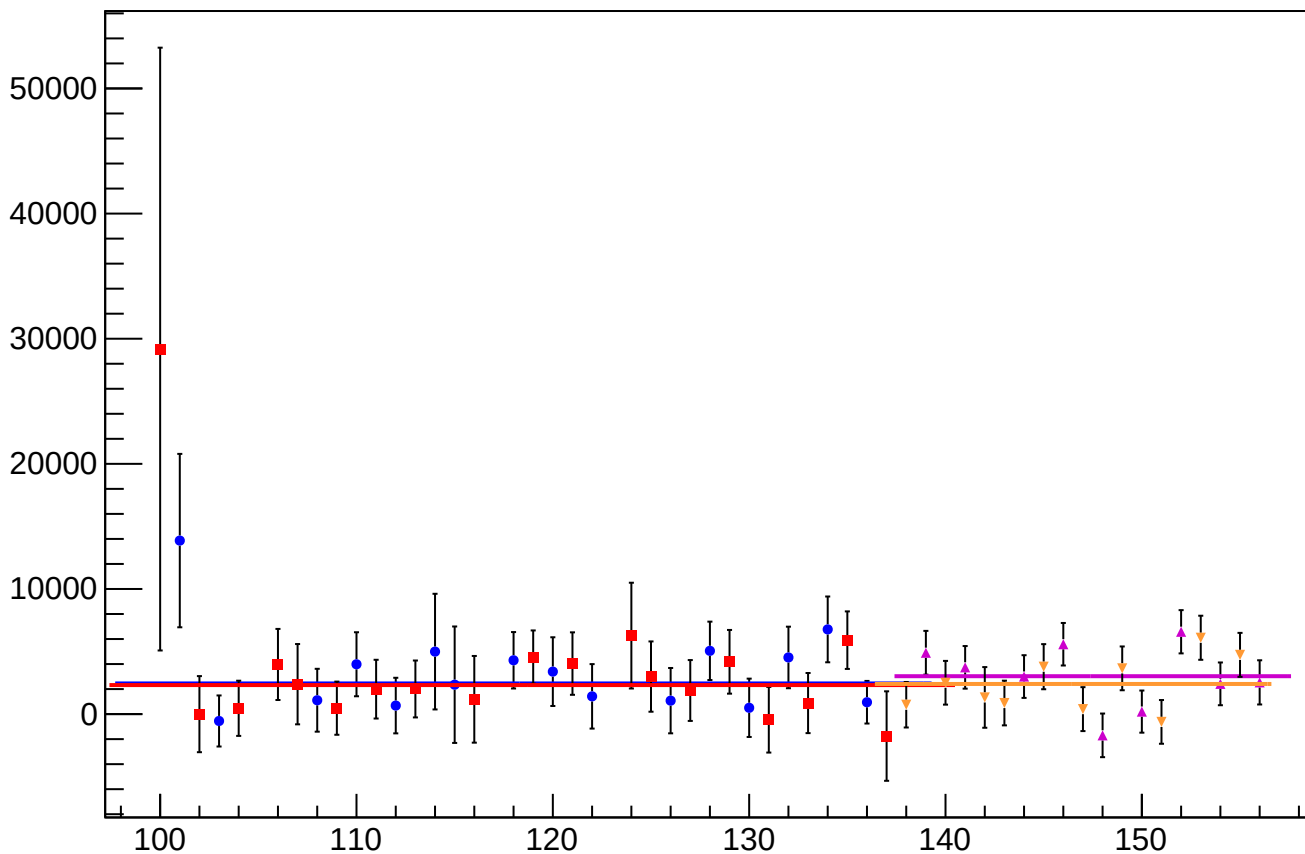
Right: 846.386+/-0.164 χ^2/NDF : 1941284.0/34

In: 902.740+/-0.170 χ^2/NDF : 1746468.5/24

Out: 853.244+/-0.162 χ^2/NDF : 2218068.9/28

All: 876.748+/-0.117 χ^2/NDF : 4008846.9/53

cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.397+/-630.235 χ^2/NDF : 13.8/15

Left Out: 2408.310+/-572.929 χ^2/NDF : 13.3/9

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 3029.046+/-573.322 χ^2/NDF : 18.2/8

Left: 2718.465+/-405.261 χ^2/NDF : 32.1/18

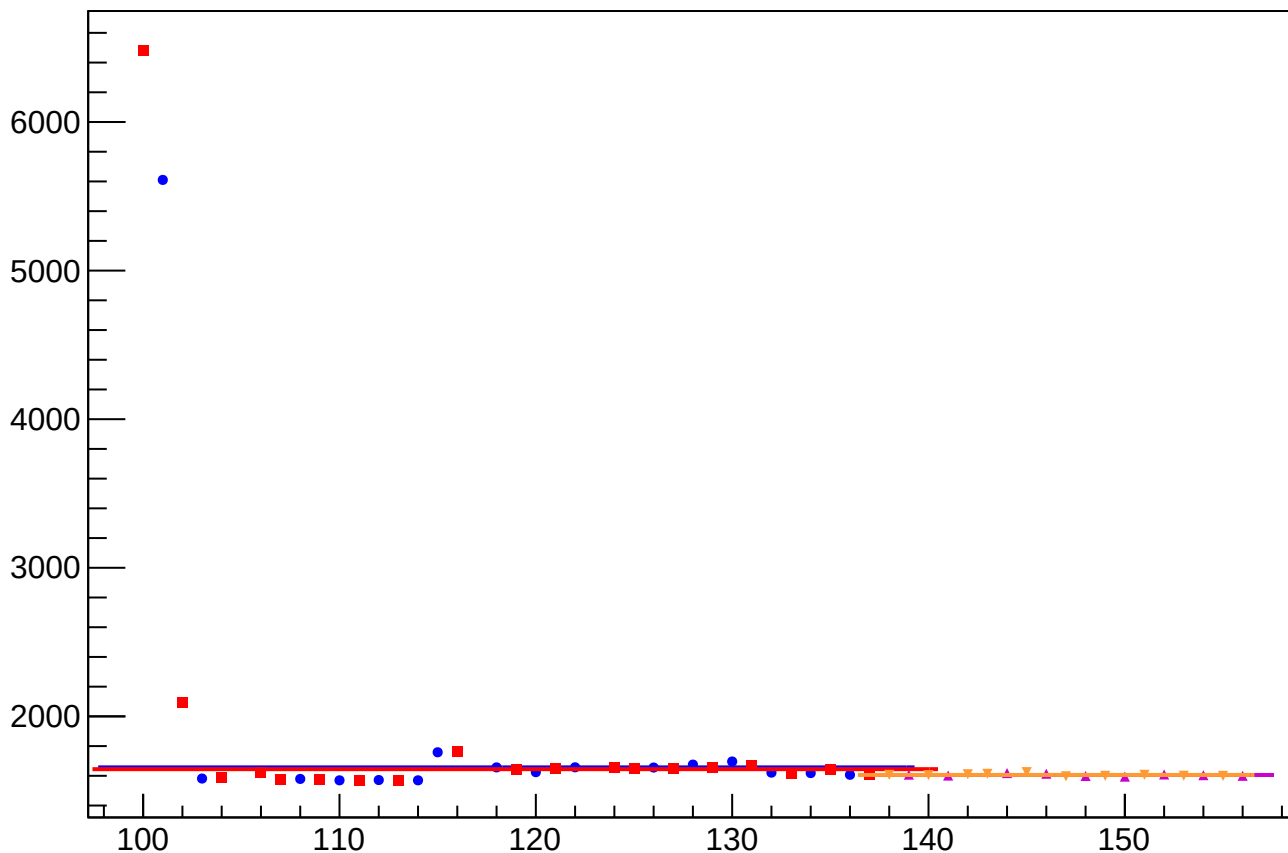
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2766.570+/-424.096 χ^2/NDF : 32.5/24

Out: 2367.165+/-417.503 χ^2/NDF : 25.4/28

All: 2563.738+/-297.523 χ^2/NDF : 58.3/53

cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683+/-0.446 χ^2/NDF : 666225.7/15

Left Out: 1605.827+/-0.405 χ^2/NDF : 384.6/9

Right Out: 1644.733+/-0.431 χ^2/NDF : 136483.1/18

Left In: 1605.558+/-0.405 χ^2/NDF : 323.9/8

Left: 1605.692+/-0.287 χ^2/NDF : 708.7/18

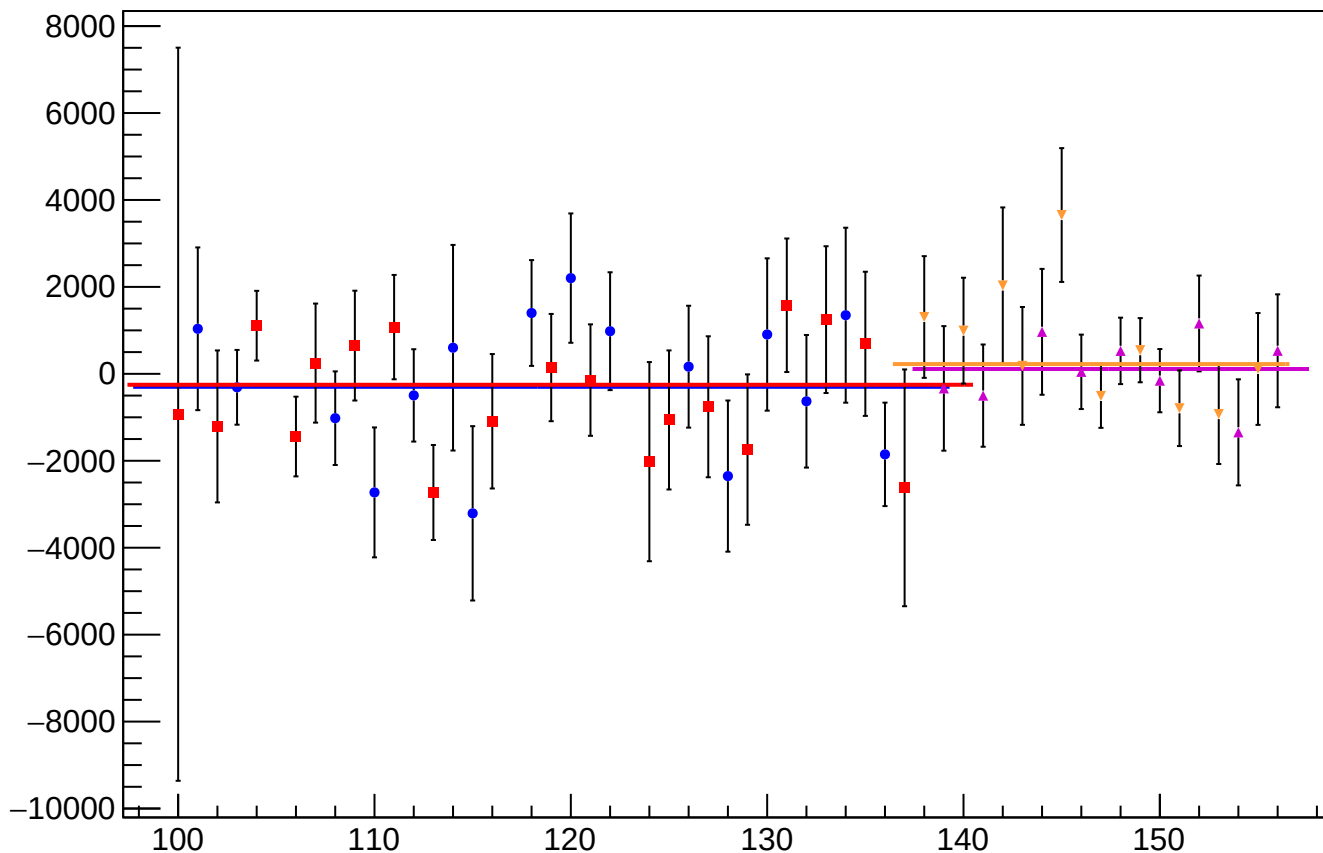
Right: 1650.510+/-0.310 χ^2/NDF : 803080.3/34

In: 1628.708+/-0.300 χ^2/NDF : 673751.3/24

Out: 1624.073+/-0.295 χ^2/NDF : 141192.9/28

All: 1626.354+/-0.210 χ^2/NDF : 815065.5/53

asym_usr_atr1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -297.794+/-343.391 χ^2/NDF : 15.9/15

Left Out: 224.393+/-336.423 χ^2/NDF :10.5/9

Right Out: -251.230+/-315.749 χ^2/NDF : 17.3/18

Left In: 111.098+/-338.199 χ^2/NDF :3.6/8

Left: 168.044+/-238.512 χ^2/NDF : 14.2/18

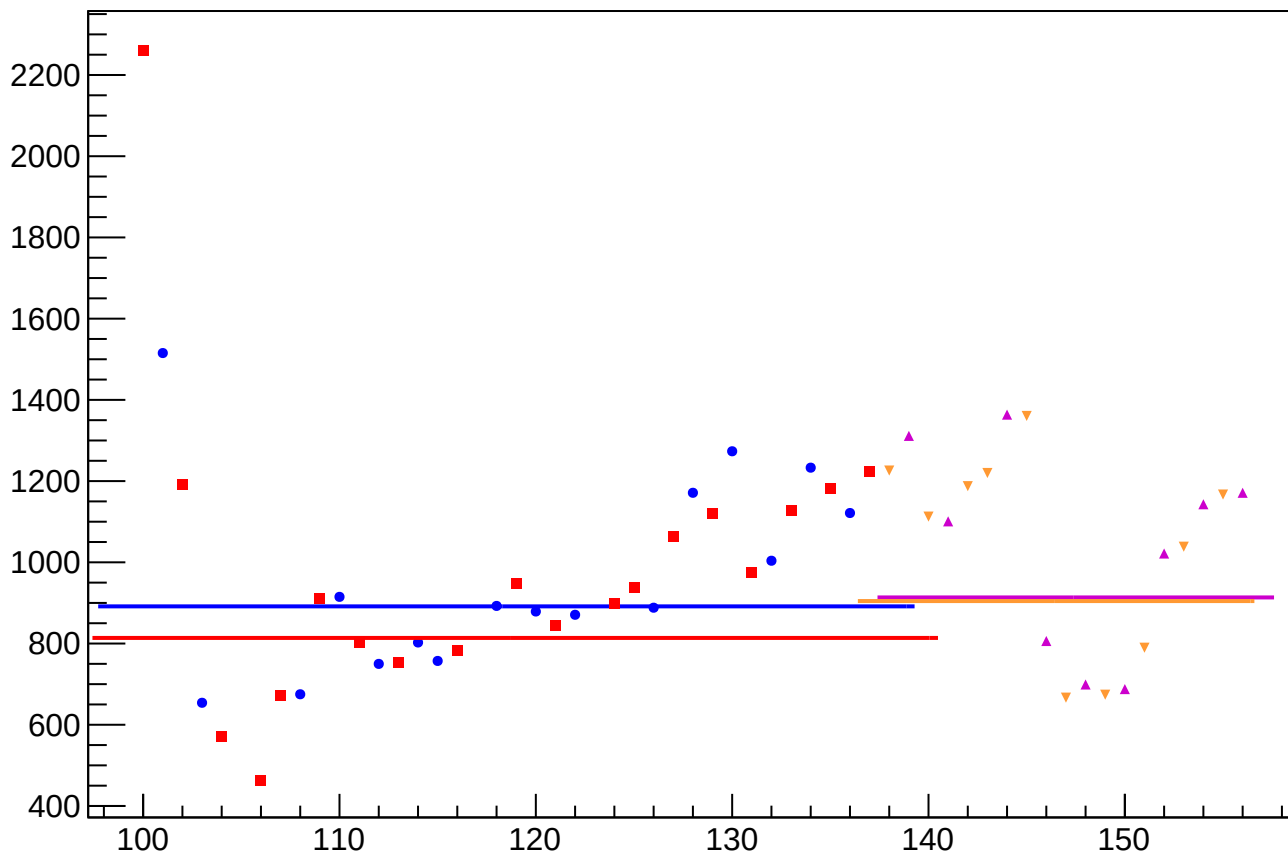
Right: -272.563+/-232.427 χ^2/NDF : 33.2/34

In: -90.234+/-240.957 χ^2/NDF :20.3/24

Out: -28.481+/-230.230 χ^2/NDF :28.9/28

All: -57.952+/-166.460 χ^2/NDF : 49.1/53

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: 904.572+/-0.238 χ^2/NDF : 1047383.2/9

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 913.518+/-0.239 χ^2/NDF : 948405.4/8

Left: 909.021+/-0.169 χ^2/NDF : 1996492.0/18

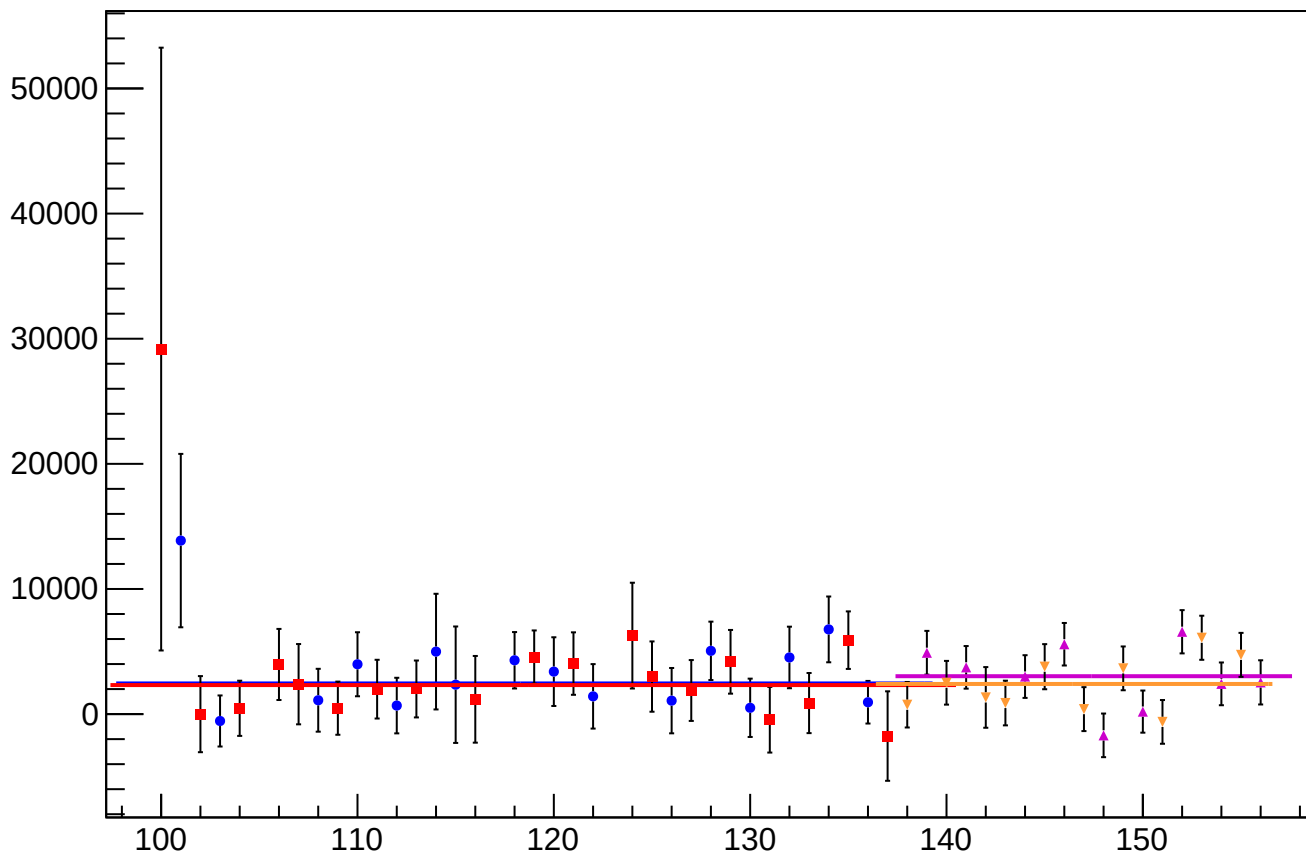
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 902.693+/-0.170 χ^2/NDF : 1746224.0/24

Out: 856.315+/-0.163 χ^2/NDF : 2177774.2/28

All: 878.449+/-0.118 χ^2/NDF : 3962729.3/53

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: 2408.310+/-572.929 χ^2/NDF :13.3/9

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 3029.046+/-573.322 χ^2/NDF :18.2/8

Left: 2718.465+/-405.261 χ^2/NDF : 32.1/18

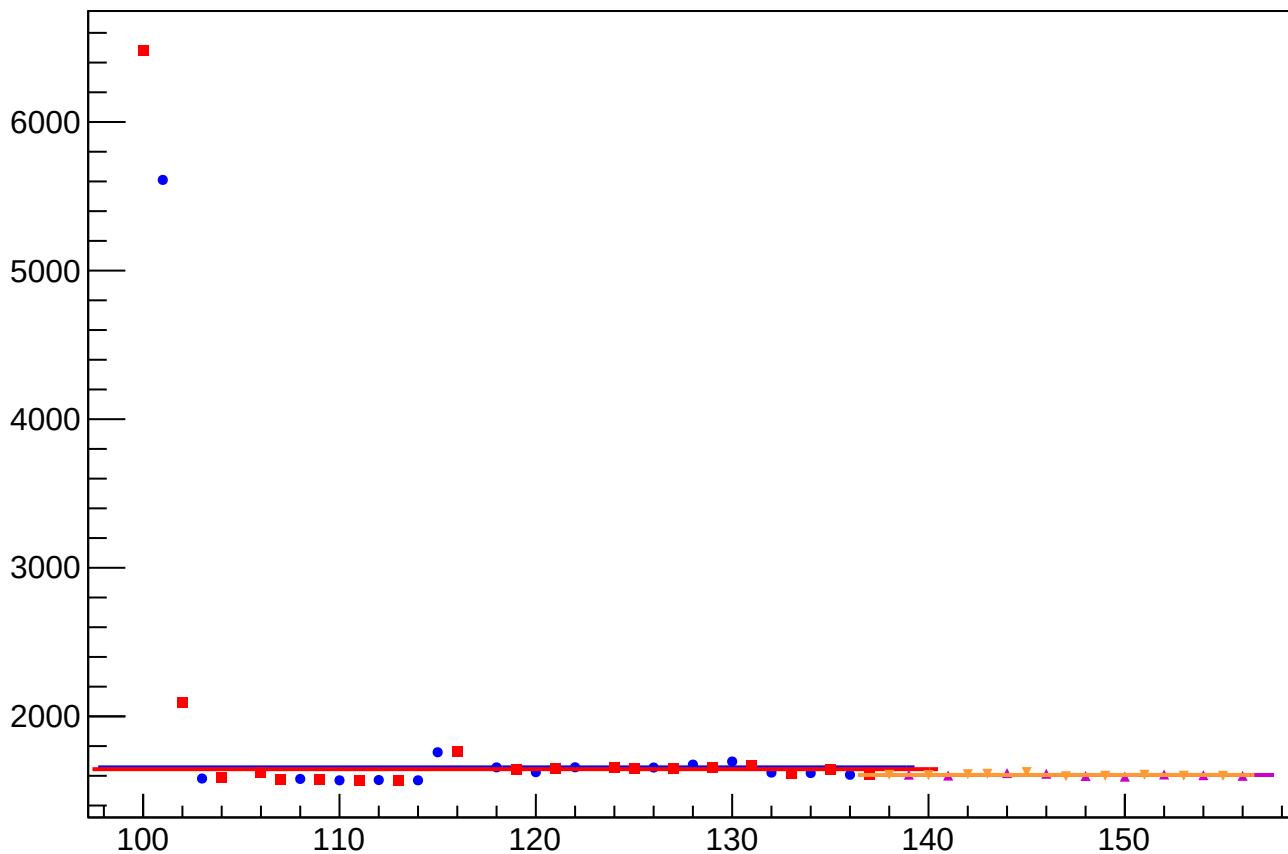
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2766.570+/-424.096 χ^2/NDF :32.5/24

Out: 2367.165+/-417.503 χ^2/NDF :25.4/28

All: 2563.738+/-297.523 χ^2/NDF : 58.3/53

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: 1605.827+/-0.405 χ^2/NDF : 384.6/9

Right Out: 1644.733+/-0.431 χ^2/NDF : 136483.1/18

Left In: 1605.558+/-0.405 χ^2/NDF : 323.9/8

Left: 1605.692+/-0.287 χ^2/NDF : 708.7/18

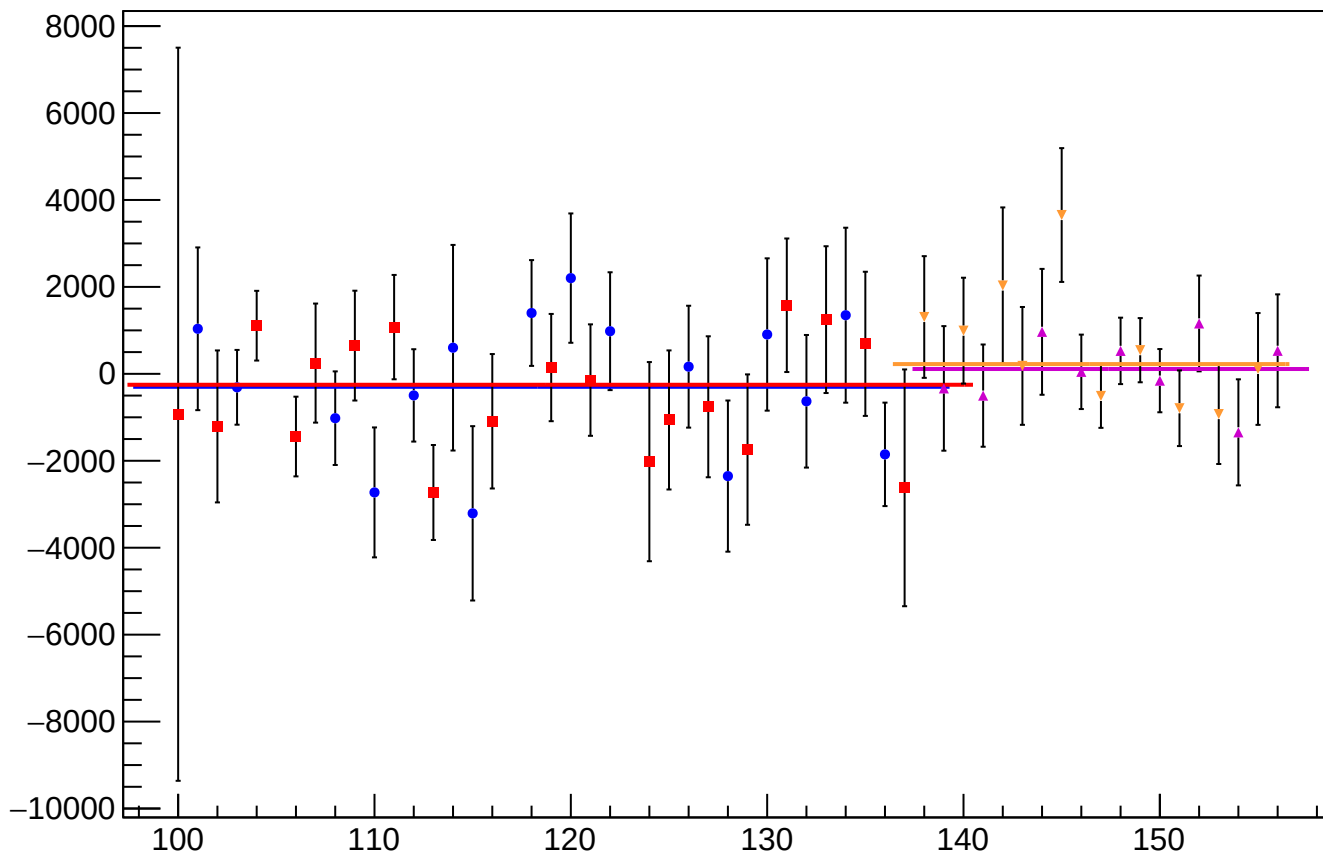
Right: 1650.510+/-0.310 χ^2/NDF : 803080.3/34

In: 1628.708+/-0.300 χ^2/NDF : 673751.3/24

Out: 1624.073+/-0.295 χ^2/NDF : 141192.9/28

All: 1626.354+/-0.210 χ^2/NDF : 815065.5/53

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: 224.393+/-336.423 χ^2/NDF :10.5/9

Right Out: -251.230+/-315.749 χ^2/NDF : 17.3/18

Left In: 111.098+/-338.199 χ^2/NDF :3.6/8

Left: 168.044+/-238.512 χ^2/NDF : 14.2/18

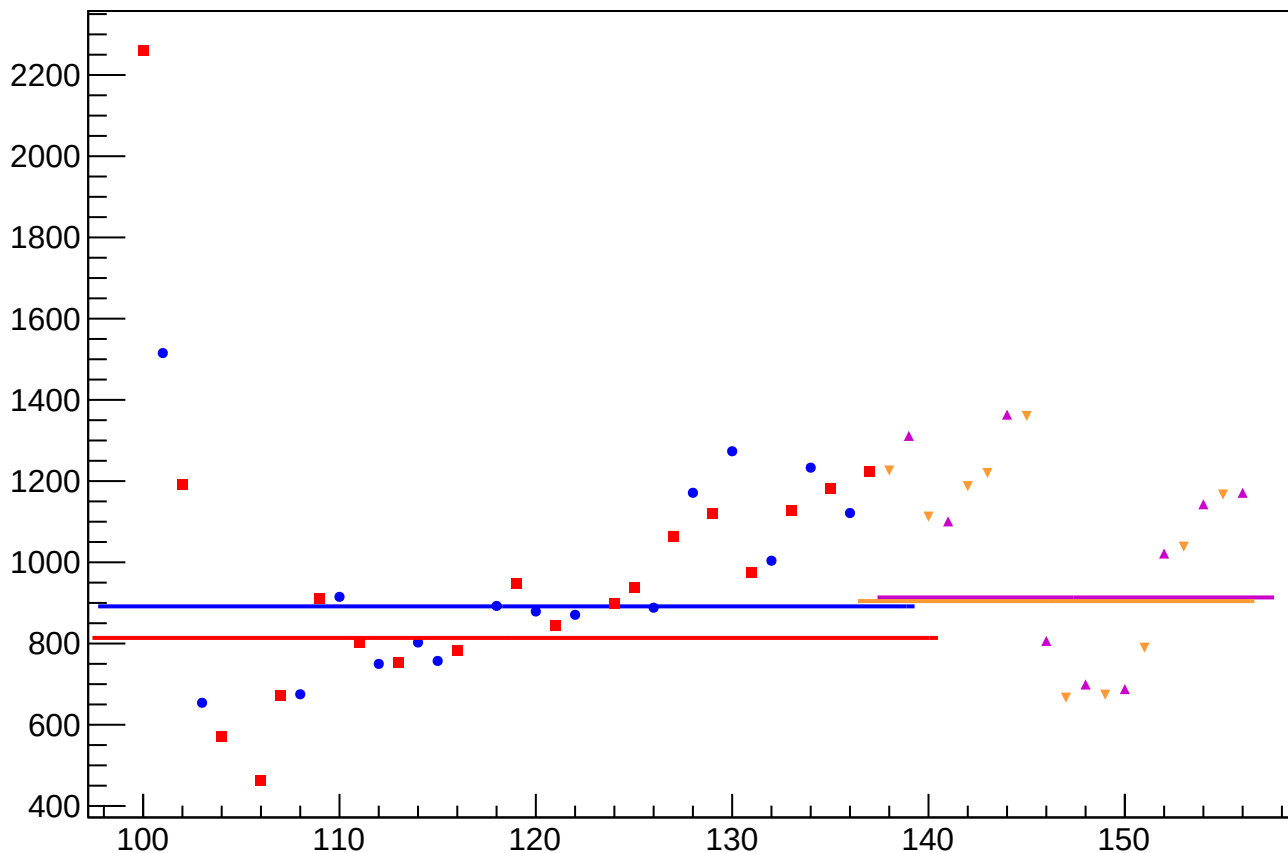
Right: -272.563+/-232.427 χ^2/NDF : 33.2/34

In: -90.234+/-240.957 χ^2/NDF :20.3/24

Out: -28.481+/-230.230 χ^2/NDF :28.9/28

All: -57.952+/-166.460 χ^2/NDF : 49.1/53

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: 904.572+/-0.238 χ^2/NDF : 1047383.2/9

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 913.518+/-0.239 χ^2/NDF : 948405.4/8

Left: 909.021+/-0.169 χ^2/NDF : 1996492.0/18

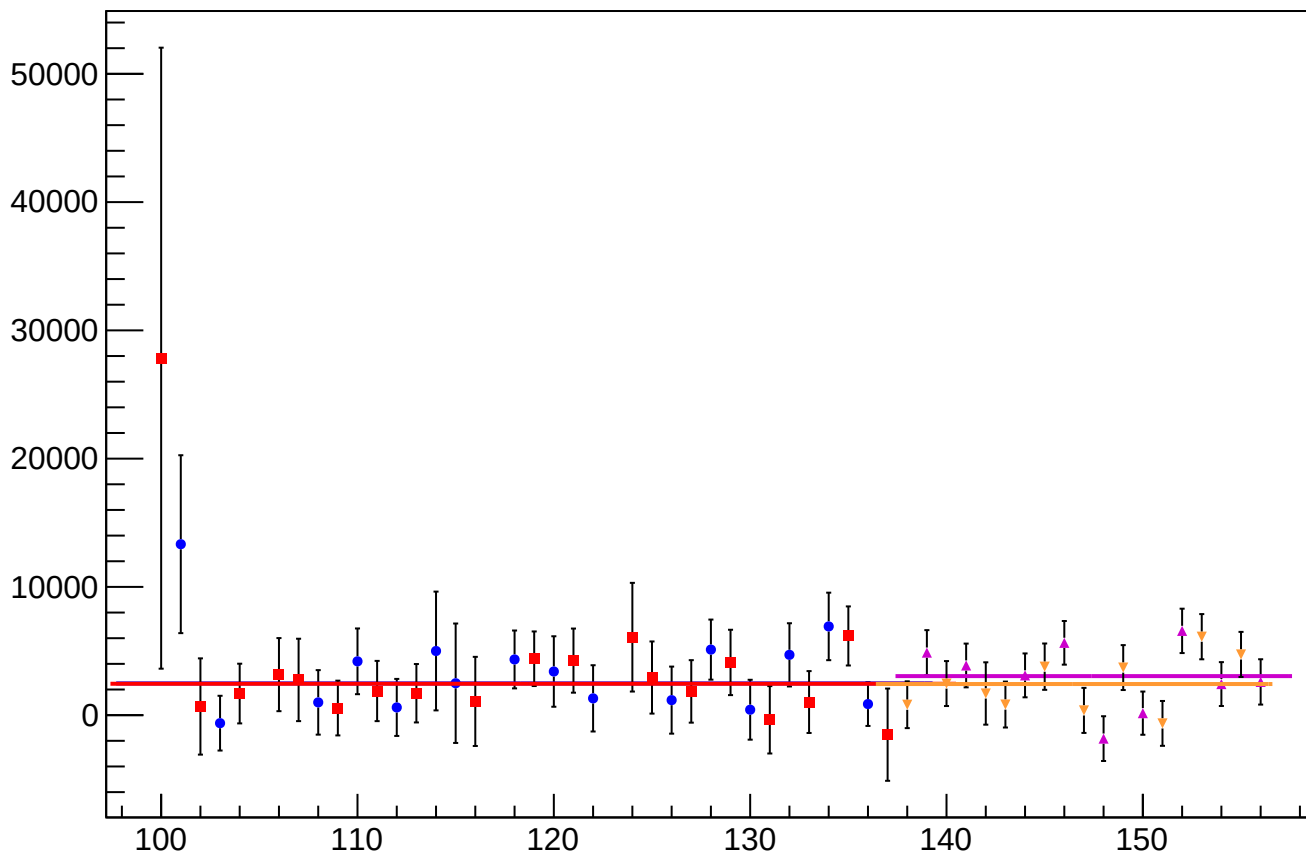
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 902.693+/-0.170 χ^2/NDF : 1746224.0/24

Out: 856.315+/-0.163 χ^2/NDF : 2177774.2/28

All: 878.449+/-0.118 χ^2/NDF : 3962729.3/53

dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2475.229+/-633.866 χ^2/NDF : 14.2/15

Left Out: 2427.649+/-573.879 χ^2/NDF : 13.3/9

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 3045.002+/-574.096 χ^2/NDF : 18.8/8

Left: 2736.208+/-405.870 χ^2/NDF : 32.7/18

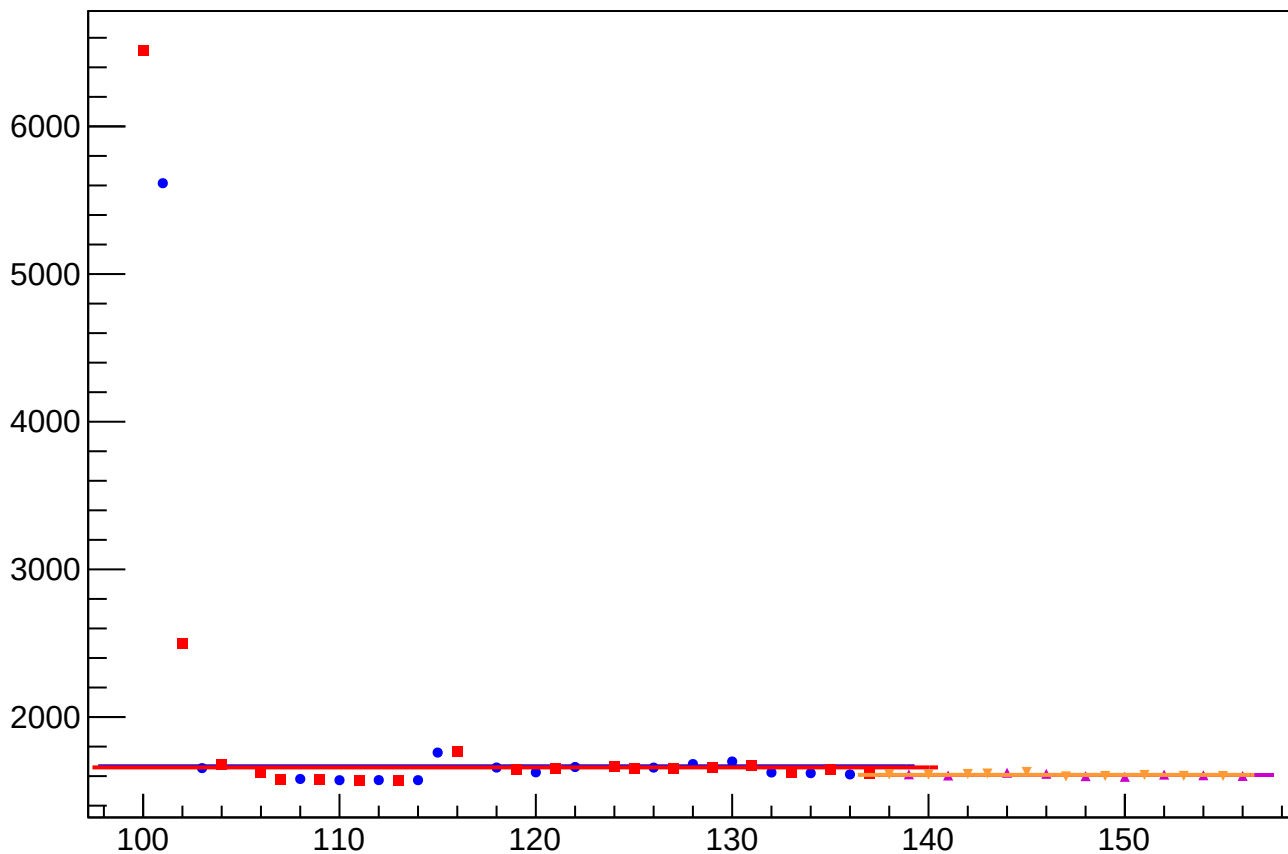
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2788.239+/-425.513 χ^2/NDF : 33.4/24

Out: 2437.568+/-420.380 χ^2/NDF : 23.9/28

All: 2610.775+/-299.052 χ^2/NDF : 57.6/53

dit_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1666.400+/-0.448 χ^2/NDF : 662914.5/15

Left Out: 1608.479+/-0.406 χ^2/NDF : 487.4/9

Right Out: 1659.005+/-0.437 χ^2/NDF : 193223.7/18

Left In: 1607.705+/-0.406 χ^2/NDF : 402.8/8

Left: 1608.092+/-0.287 χ^2/NDF : 892.0/18

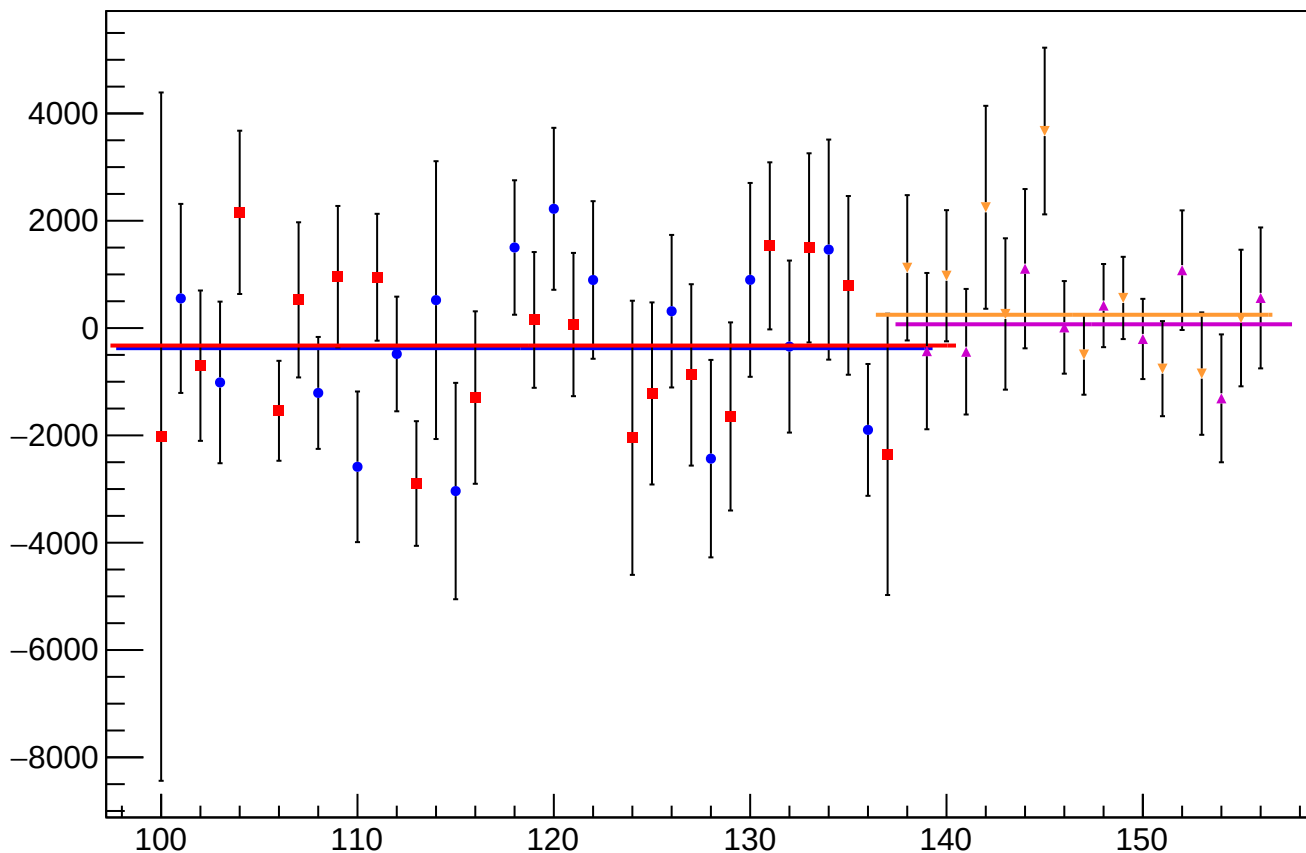
Right: 1662.606+/-0.313 χ^2/NDF : 856277.9/34

In: 1634.155+/-0.301 χ^2/NDF : 672738.1/24

Out: 1631.893+/-0.297 χ^2/NDF : 200895.3/28

All: 1633.011+/-0.211 χ^2/NDF : 873662.1/53

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: 248.077+/-341.840 χ^2/NDF : 10.1/9

Right Out: -325.671+/-340.620 χ^2/NDF : 17.4/18

Left In: 70.577+/-342.149 χ^2/NDF : 3.4/8

Left: 159.407+/-241.826 χ^2/NDF : 13.7/18

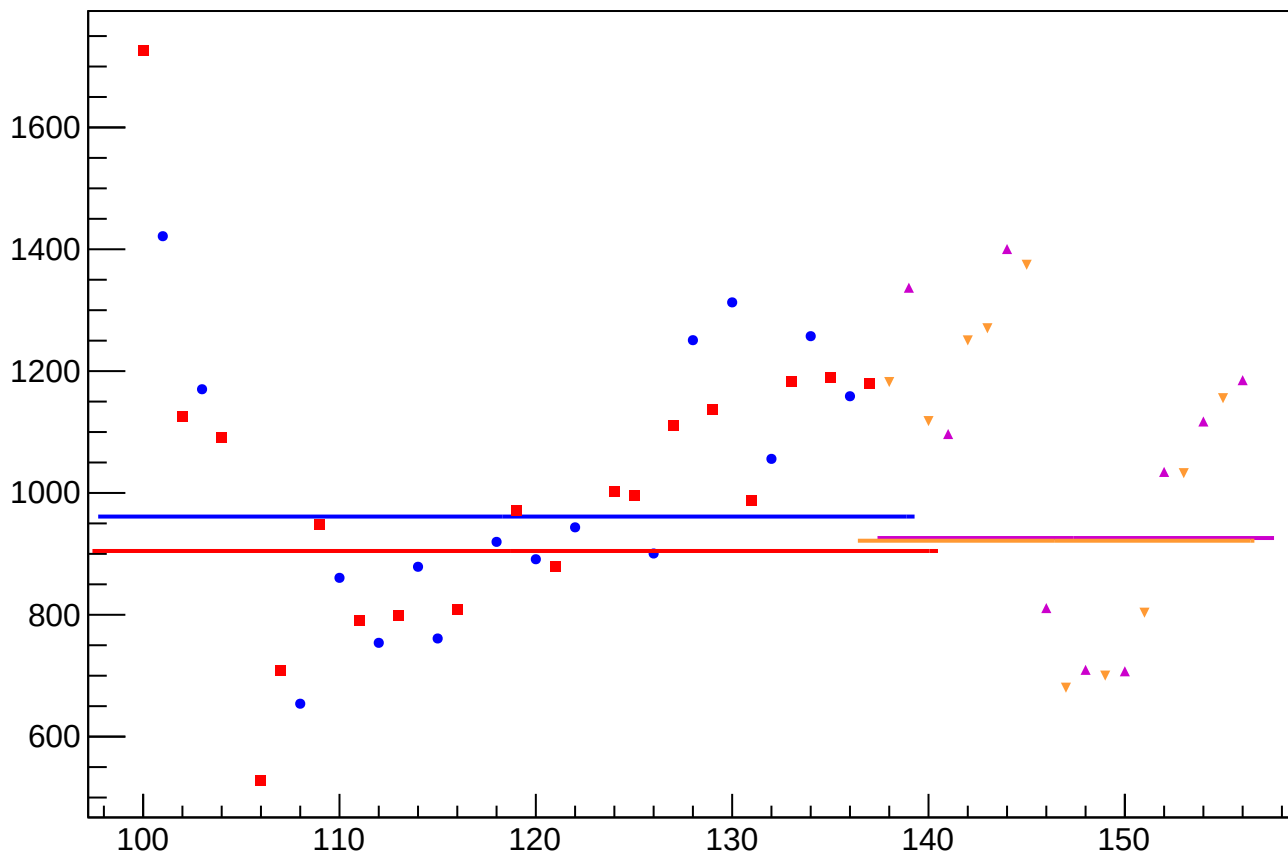
Right: -348.248+/-249.957 χ^2/NDF : 33.1/34

In: -135.857+/-250.559 χ^2/NDF : 19.9/24

Out: -39.822+/-241.285 χ^2/NDF : 28.9/28

All: -86.029+/-173.800 χ^2/NDF : 49.0/53

asym_usr_atr1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.243+/-0.260 χ^2/NDF : 691875.4/15

Left Out: 921.599+/-0.242 χ^2/NDF : 975156.0/9

Right Out: 904.736+/-0.241 χ^2/NDF : 736484.7/18

Left In: 926.008+/-0.242 χ^2/NDF : 917038.8/8

Left: 923.801+/-0.171 χ^2/NDF : 1892361.0/18

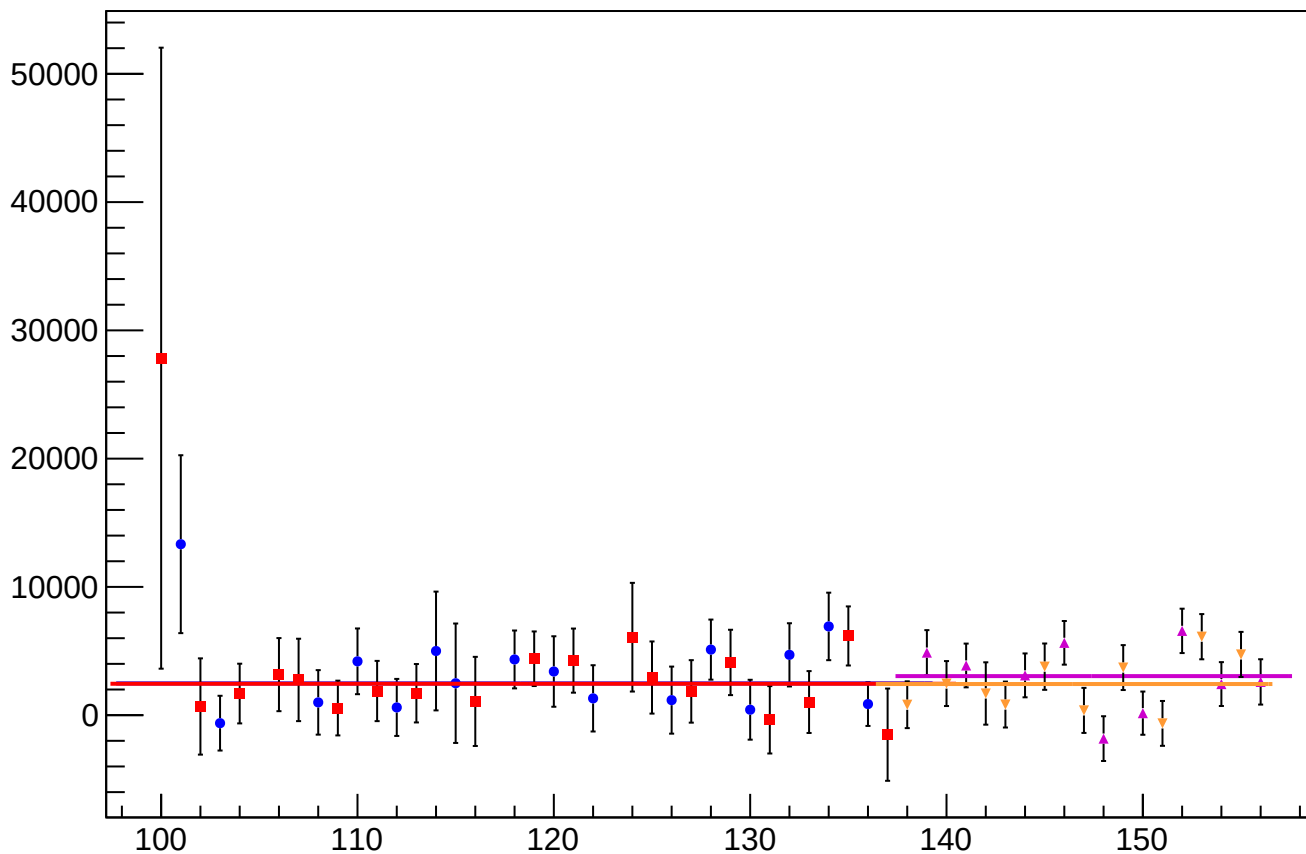
Right: 930.814+/-0.177 χ^2/NDF : 1453761.0/34

In: 942.347+/-0.177 χ^2/NDF : 1618749.8/24

Out: 913.137+/-0.171 χ^2/NDF : 1714082.7/28

All: 927.192+/-0.123 χ^2/NDF : 3346935.1/53

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: 2427.649+/-573.879 χ^2/NDF : 13.3/9

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 3045.002+/-574.096 χ^2/NDF : 18.8/8

Left: 2736.209+/-405.870 χ^2/NDF : 32.7/18

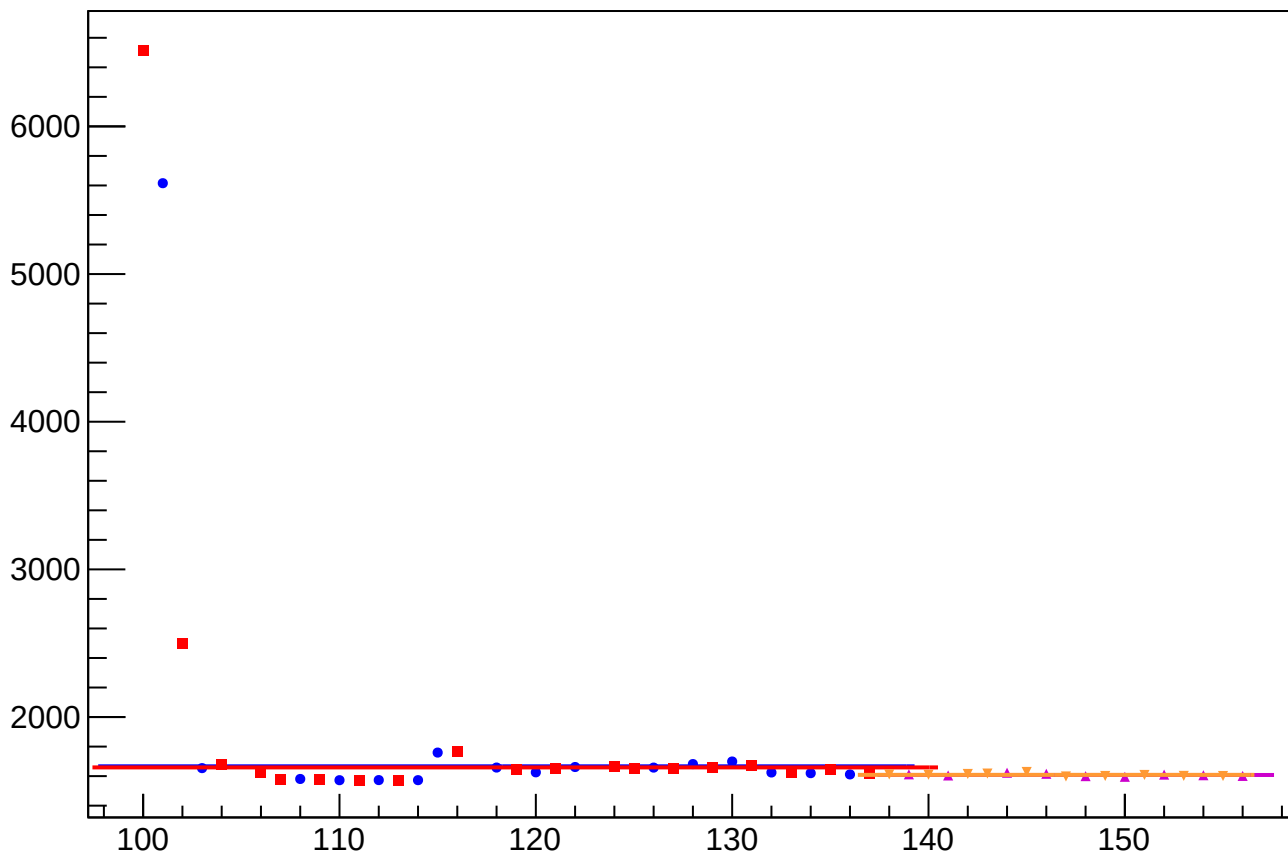
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2788.238+/-425.513 χ^2/NDF : 33.4/24

Out: 2437.568+/-420.380 χ^2/NDF : 23.9/28

All: 2610.775+/-299.052 χ^2/NDF : 57.6/53

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: 1608.479+/-0.406 χ^2/NDF : 487.4/9

Right Out: 1659.004+/-0.437 χ^2/NDF : 193223.5/18

Left In: 1607.705+/-0.406 χ^2/NDF : 402.8/8

Left: 1608.092+/-0.287 χ^2/NDF : 892.0/18

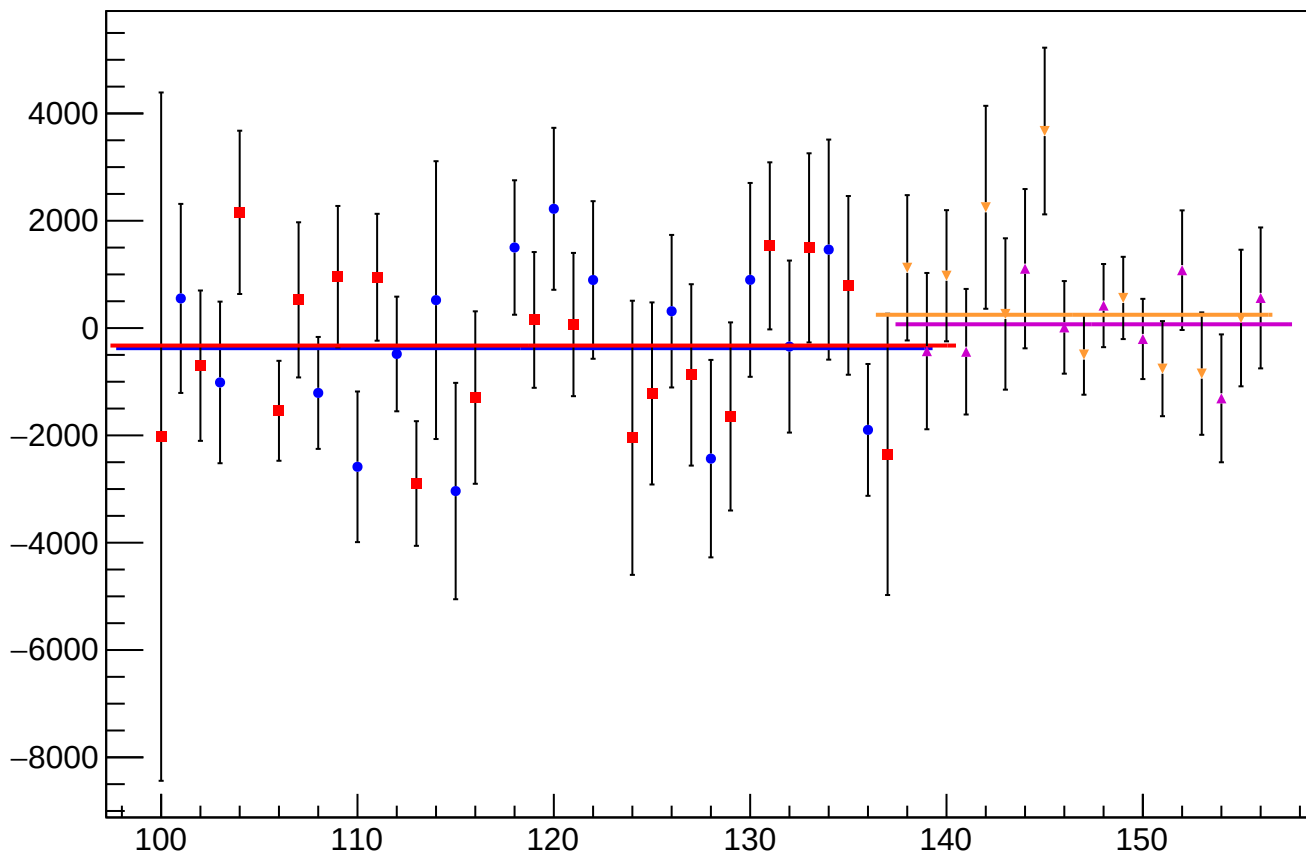
Right: 1662.606+/-0.313 χ^2/NDF : 856277.7/34

In: 1634.155+/-0.301 χ^2/NDF : 672738.1/24

Out: 1631.893+/-0.297 χ^2/NDF : 200895.1/28

All: 1633.010+/-0.211 χ^2/NDF : 873661.8/53

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: 248.076 ± 341.841 χ^2/NDF : 10.1/9

Right Out: -325.670 ± 340.619 χ^2/NDF : 17.4/18

Left In: 70.578 ± 342.149 χ^2/NDF : 3.4/8

Left: 159.407 ± 241.827 χ^2/NDF : 13.7/18

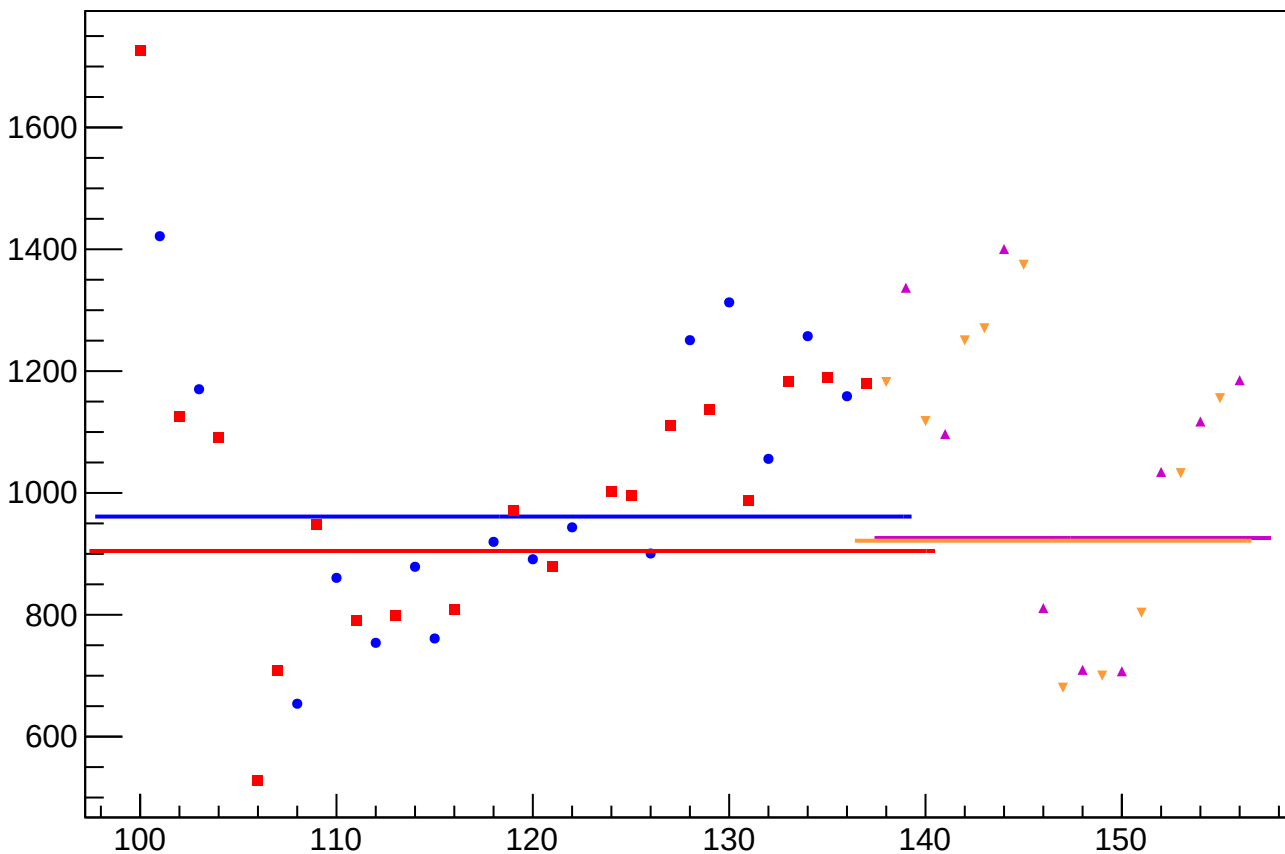
Right: -348.247 ± 249.956 χ^2/NDF : 33.1/34

In: -135.857 ± 250.559 χ^2/NDF : 19.9/24

Out: -39.824 ± 241.285 χ^2/NDF : 28.9/28

All: -86.030 ± 173.800 χ^2/NDF : 49.0/53

asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.239+/-0.260 χ^2/NDF : 691883.4/15

Left Out: 921.601+/-0.242 χ^2/NDF : 975157.7/9

Right Out: 904.734+/-0.241 χ^2/NDF : 736482.2/18

Left In: 926.010+/-0.242 χ^2/NDF : 917041.2/8

Left: 923.803+/-0.171 χ^2/NDF : 1892365.1/18

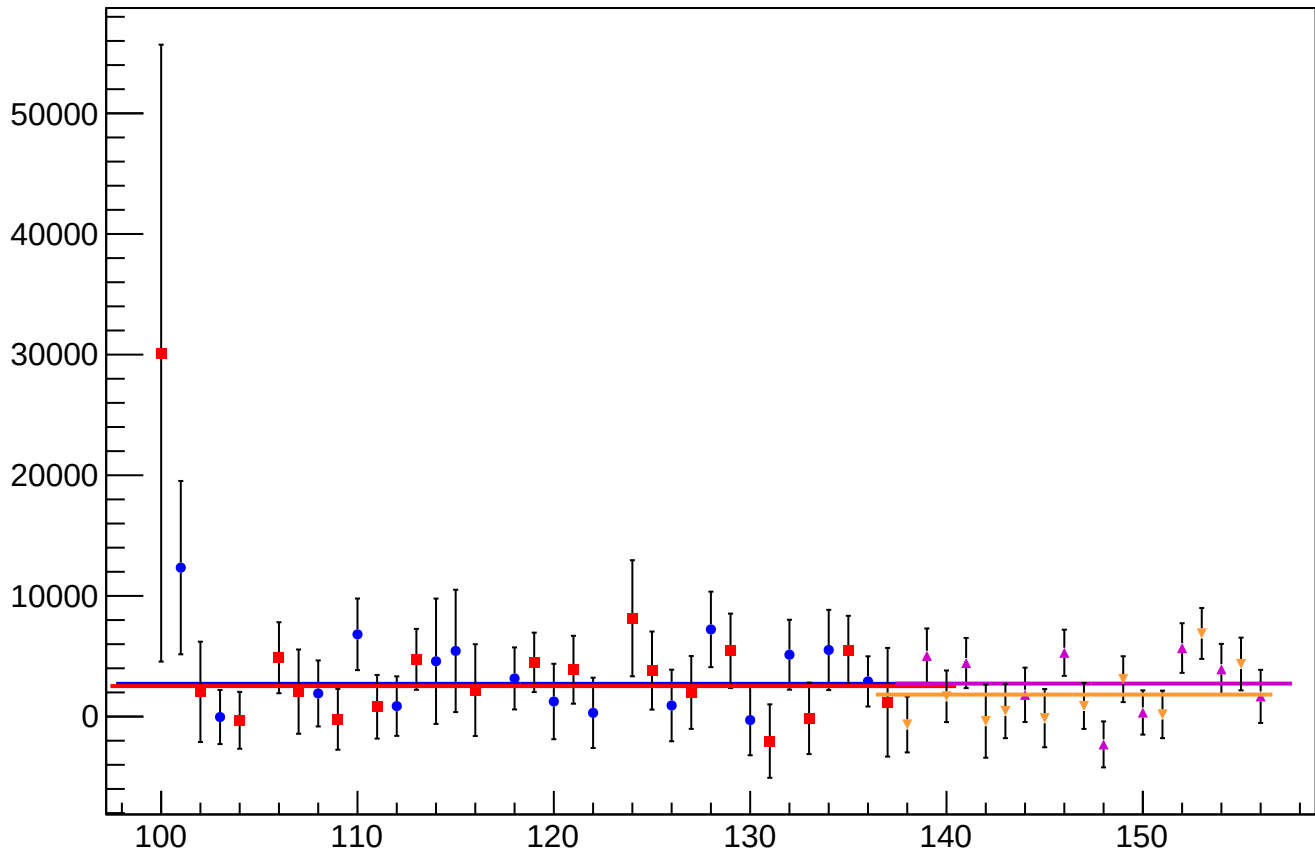
Right: 930.811+/-0.177 χ^2/NDF : 1453765.4/34

In: 942.346+/-0.177 χ^2/NDF : 1618756.9/24

Out: 913.137+/-0.171 χ^2/NDF : 1714083.2/28

All: 927.191+/-0.123 χ^2/NDF : 3346942.4/53

asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2711.394+/-735.088 χ^2/NDF : 12.1/15

Left Out: 1822.121+/-685.464 χ^2/NDF : 11.2/9

Right Out: 2525.536+/-706.449 χ^2/NDF : 13.2/18

Left In: 2733.580+/-684.172 χ^2/NDF : 14.9/8

Left: 2278.710+/-484.239 χ^2/NDF : 27.0/18

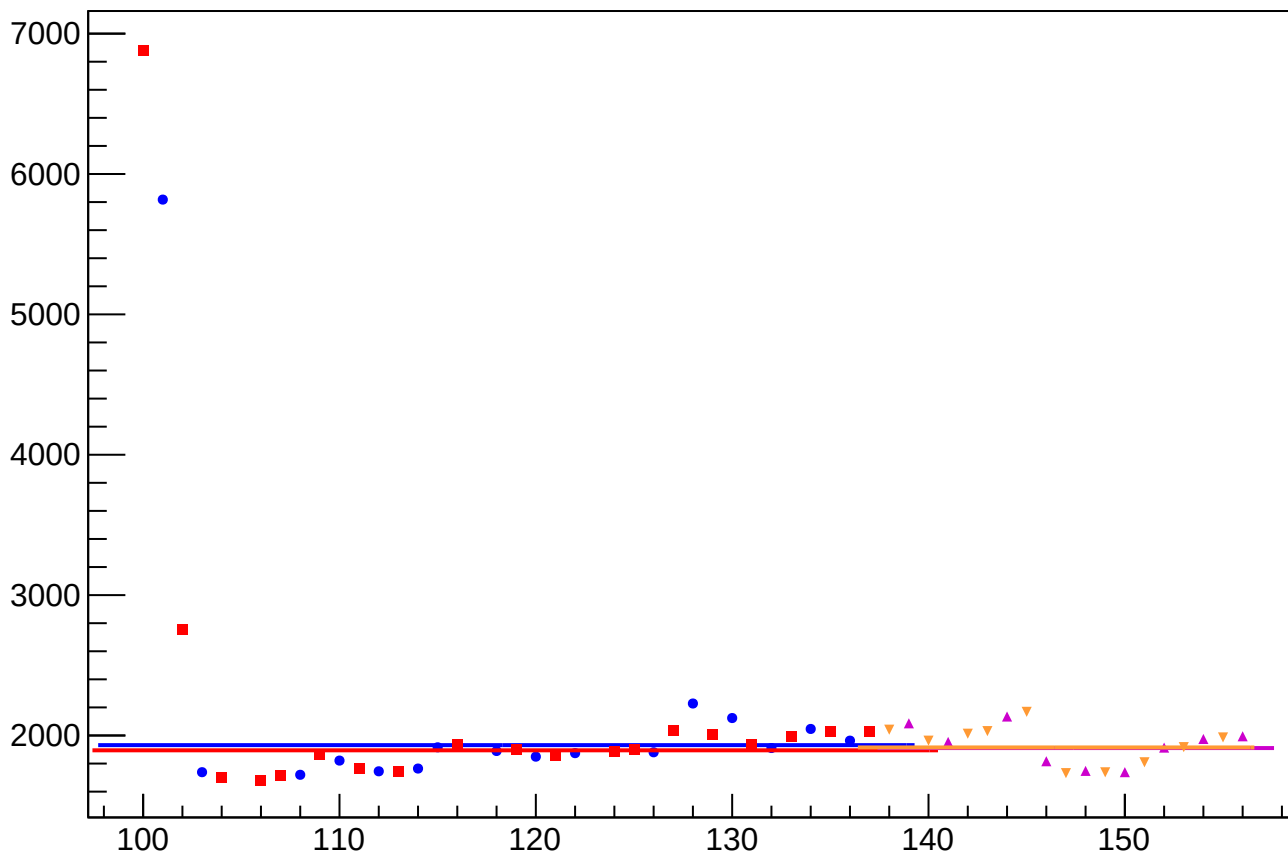
Right: 2614.774+/-509.359 χ^2/NDF : 25.4/34

In: 2723.282+/-500.816 χ^2/NDF : 27.1/24

Out: 2163.226+/-491.948 χ^2/NDF : 25.0/28

All: 2438.251+/-350.953 χ^2/NDF : 52.7/53

asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1931.250+/-0.520 χ^2/NDF : 661227.1/15

Left Out: 1914.800+/-0.485 χ^2/NDF : 80283.1/9

Right Out: 1894.349+/-0.500 χ^2/NDF : 220541.1/18

Left In: 1910.428+/-0.484 χ^2/NDF : 74494.9/8

Left: 1912.610+/-0.342 χ^2/NDF : 154818.8/18

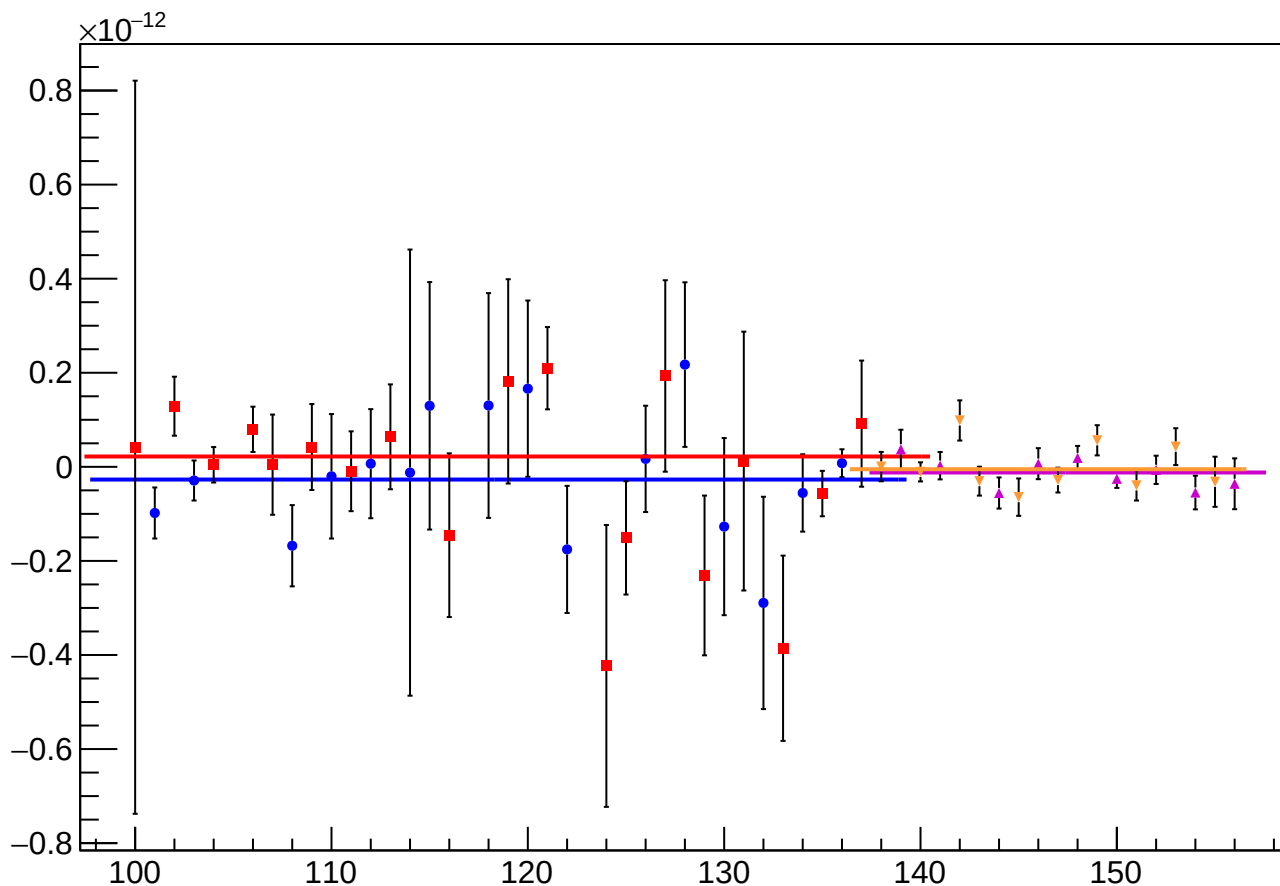
Right: 1912.067+/-0.360 χ^2/NDF : 884388.3/34

In: 1920.093+/-0.354 χ^2/NDF : 736581.8/24

Out: 1904.882+/-0.348 χ^2/NDF : 301687.5/28

All: 1912.352+/-0.248 χ^2/NDF : 1039208.3/53

asym_usr_atr1_avg_reg_vs_cor_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 : 16.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 25.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 7.3/8

Left: -0.000+/-0.000 χ^2/NDF : 23.8/18

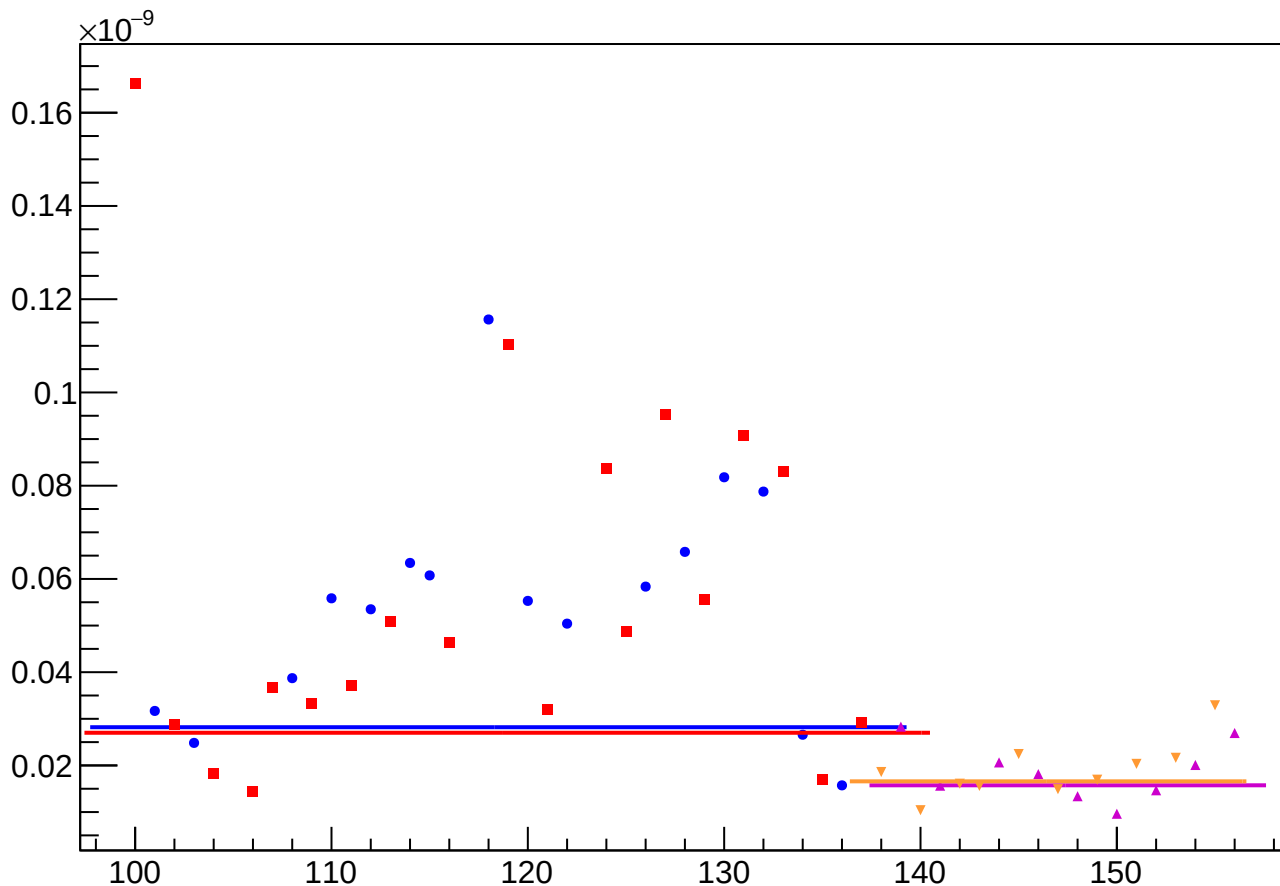
Right: -0.000+/-0.000 χ^2/NDF : 41.4/34

In: -0.000+/-0.000 χ^2/NDF : 20.6/24

Out: 0.000+/-0.000 χ^2/NDF : 43.2/28

All: -0.000+/-0.000 χ^2/NDF : 65.3/53

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 : 495740.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1556165.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 572067.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1075036.7/18

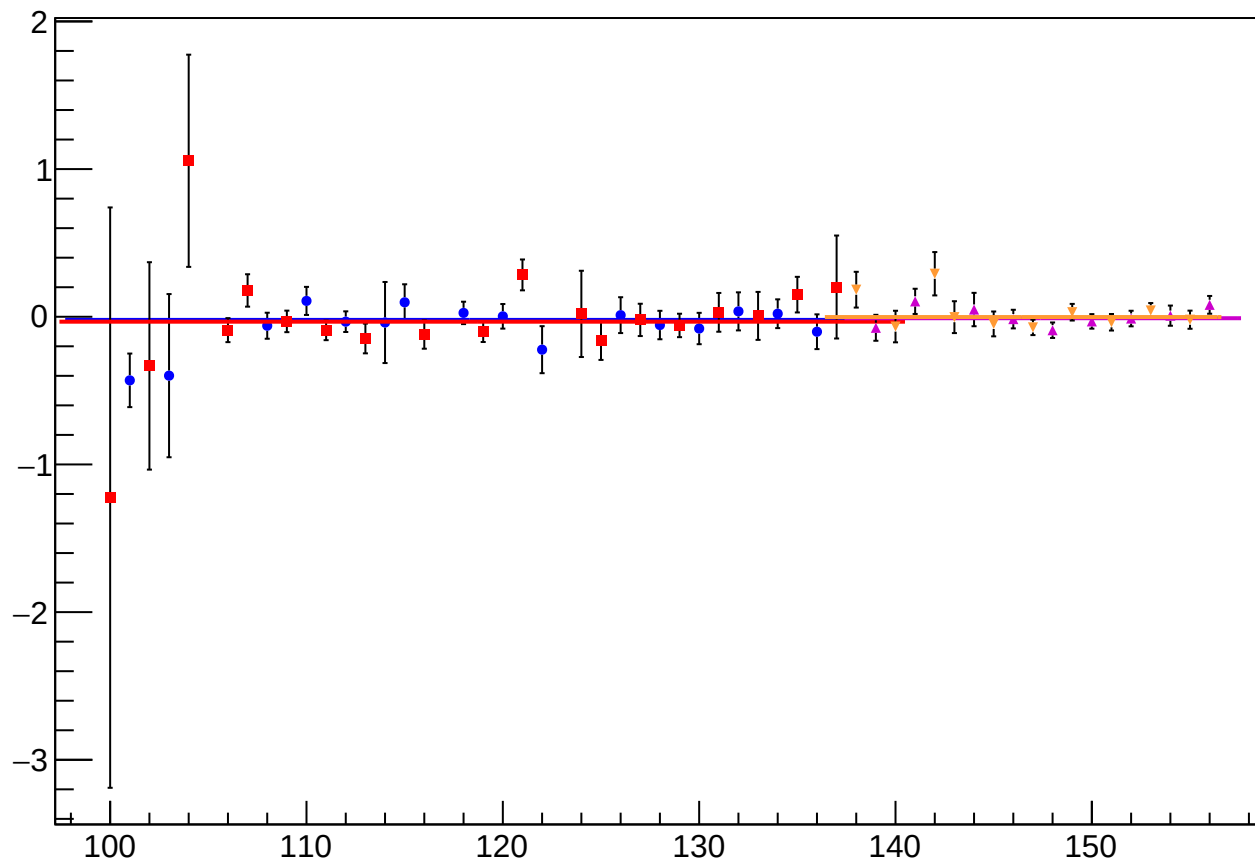
Right: 0.000+/-0.000 χ^2/NDF : 3050538.0/34

In: 0.000+/-0.000 χ^2/NDF : 2727283.9/24

Out: 0.000+/-0.000 χ^2/NDF : 2509533.3/28

All: 0.000+/-0.000 χ^2/NDF : 5238578.4/53

asym_usr_atr1_avg_dit_vs_Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: -0.002 ± 0.022 $\chi^2/\text{NDF}: 10.4/9$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: -0.010 ± 0.021 $\chi^2/\text{NDF}: 7.6/8$

Left: -0.006 ± 0.015 $\chi^2/\text{NDF}: 18.0/18$

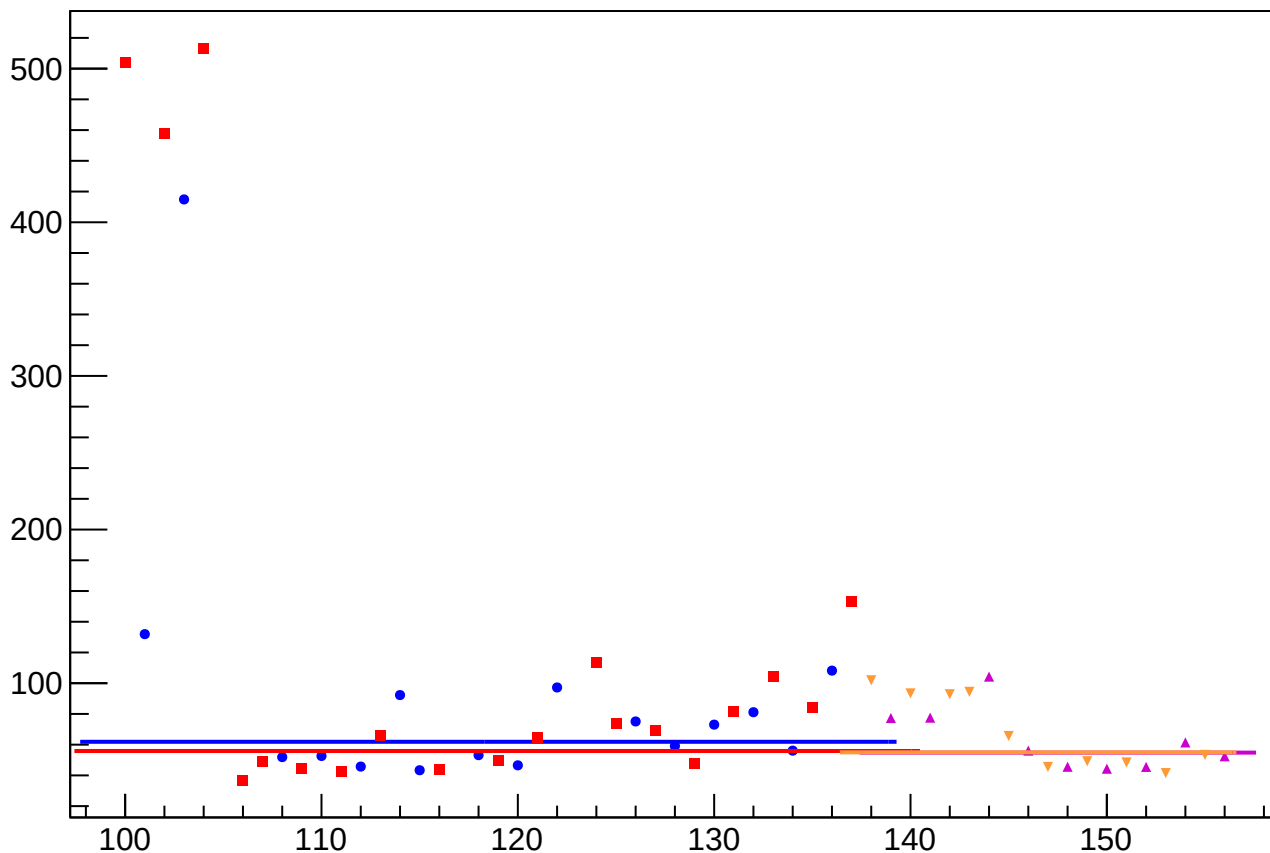
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.014 ± 0.017 $\chi^2/\text{NDF}: 19.7/24$

Out: -0.016 ± 0.016 $\chi^2/\text{NDF}: 35.7/28$

All: -0.015 ± 0.012 $\chi^2/\text{NDF}: 55.4/53$

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876+/-0.019 χ^2/NDF : 1937953.9/15

Left Out: 55.009+/-0.015 χ^2/NDF : 1249010.6/9

Right Out: 55.887+/-0.017 χ^2/NDF : 2591275.8/18

Left In: 54.823+/-0.015 χ^2/NDF : 893942.1/8

Left: 54.913+/-0.011 χ^2/NDF : 2143027.1/18

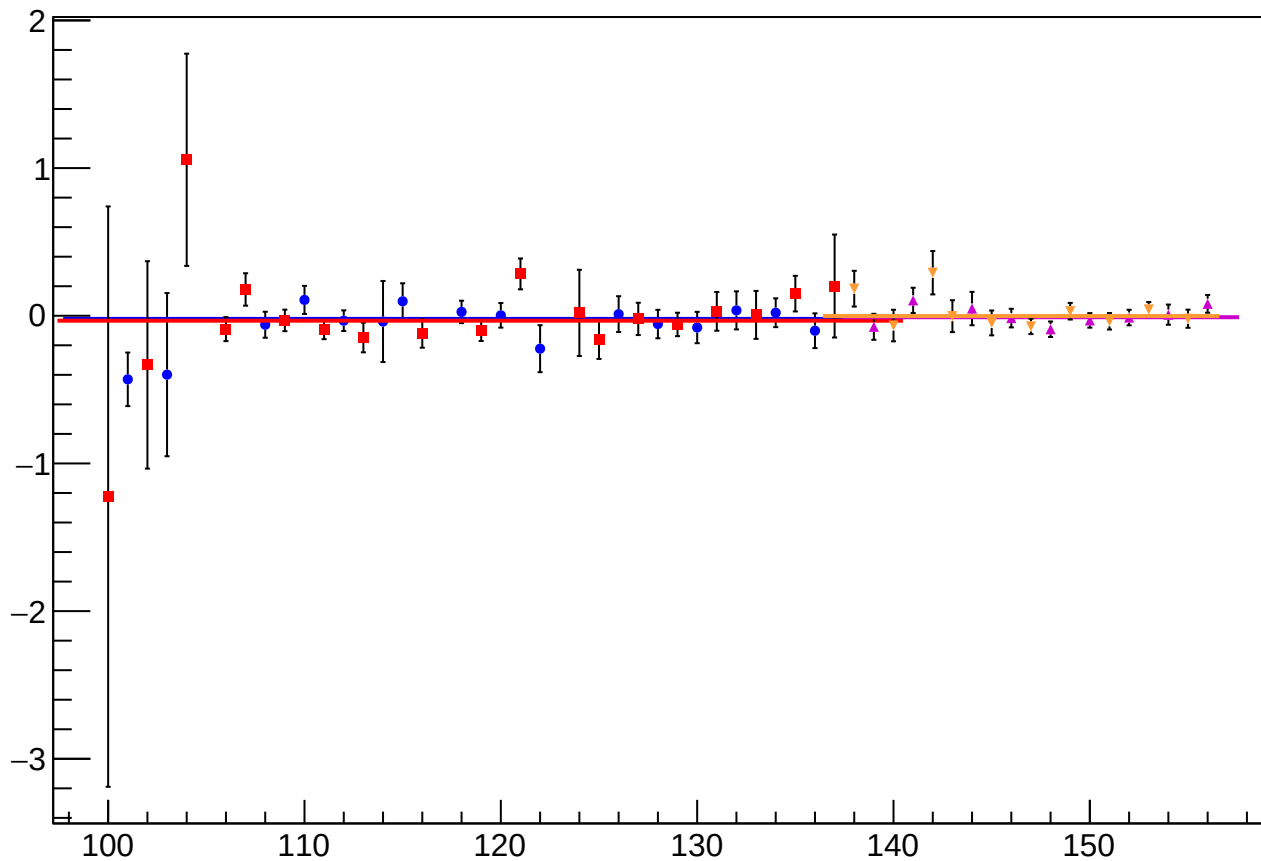
Right: 58.651+/-0.013 χ^2/NDF : 4584001.9/34

In: 57.569+/-0.012 χ^2/NDF : 2918044.7/24

Out: 55.397+/-0.012 χ^2/NDF : 3841711.9/28

All: 56.468+/-0.008 χ^2/NDF : 6777181.9/53

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 χ^2/NDF : 12.0/15

Left Out: -0.002 ± 0.022 χ^2/NDF : 10.4/9

Right Out: -0.033 ± 0.025 χ^2/NDF : 24.4/18

Left In: -0.010 ± 0.021 χ^2/NDF : 7.6/8

Left: -0.006 ± 0.015 χ^2/NDF : 18.0/18

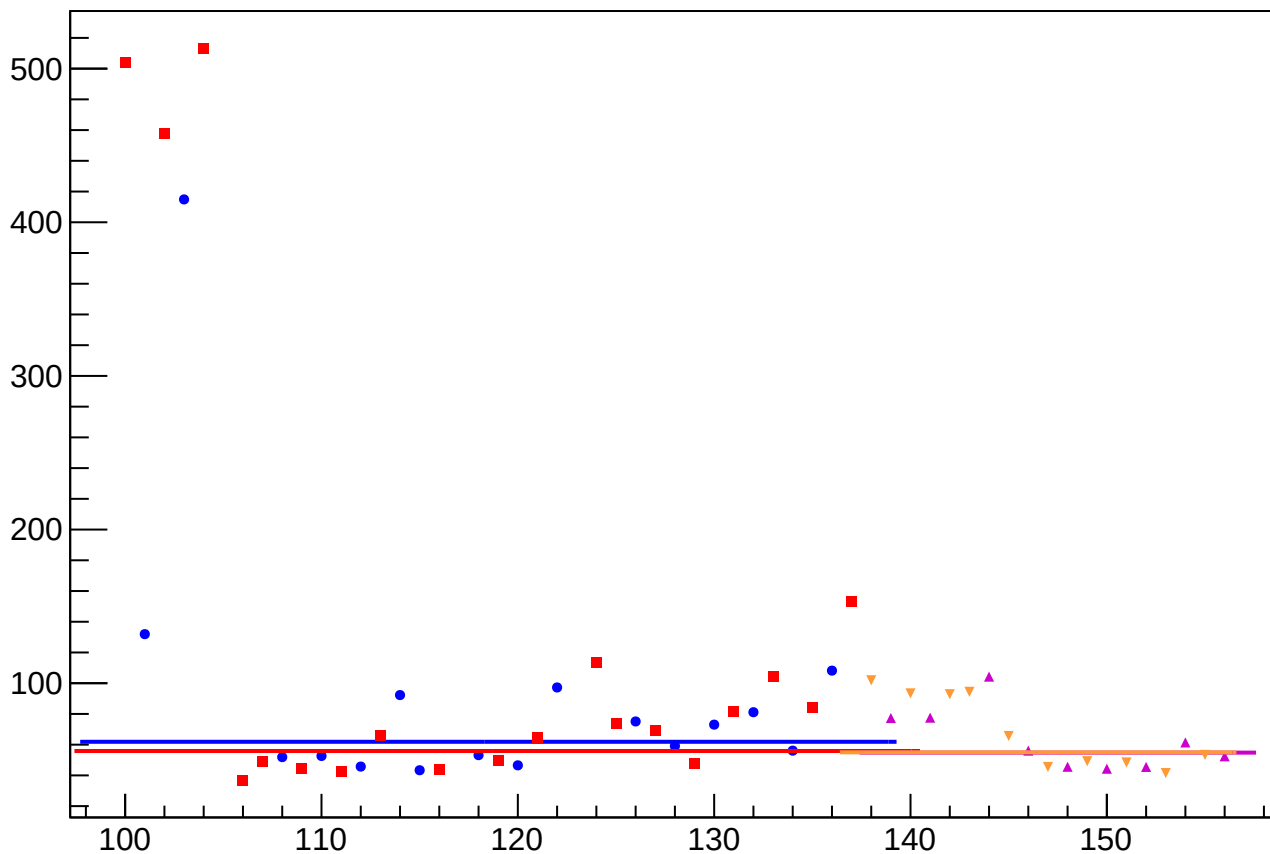
Right: -0.028 ± 0.018 χ^2/NDF : 36.5/34

In: -0.014 ± 0.017 χ^2/NDF : 19.7/24

Out: -0.016 ± 0.016 χ^2/NDF : 35.7/28

All: -0.015 ± 0.012 χ^2/NDF : 55.4/53

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876+/-0.019 χ^2/NDF : 1937953.9/15

Left Out: 55.009+/-0.015 χ^2/NDF : 1249010.6/9

Right Out: 55.887+/-0.017 χ^2/NDF : 2591275.8/18

Left In: 54.823+/-0.015 χ^2/NDF : 893942.1/8

Left: 54.913+/-0.011 χ^2/NDF : 2143027.1/18

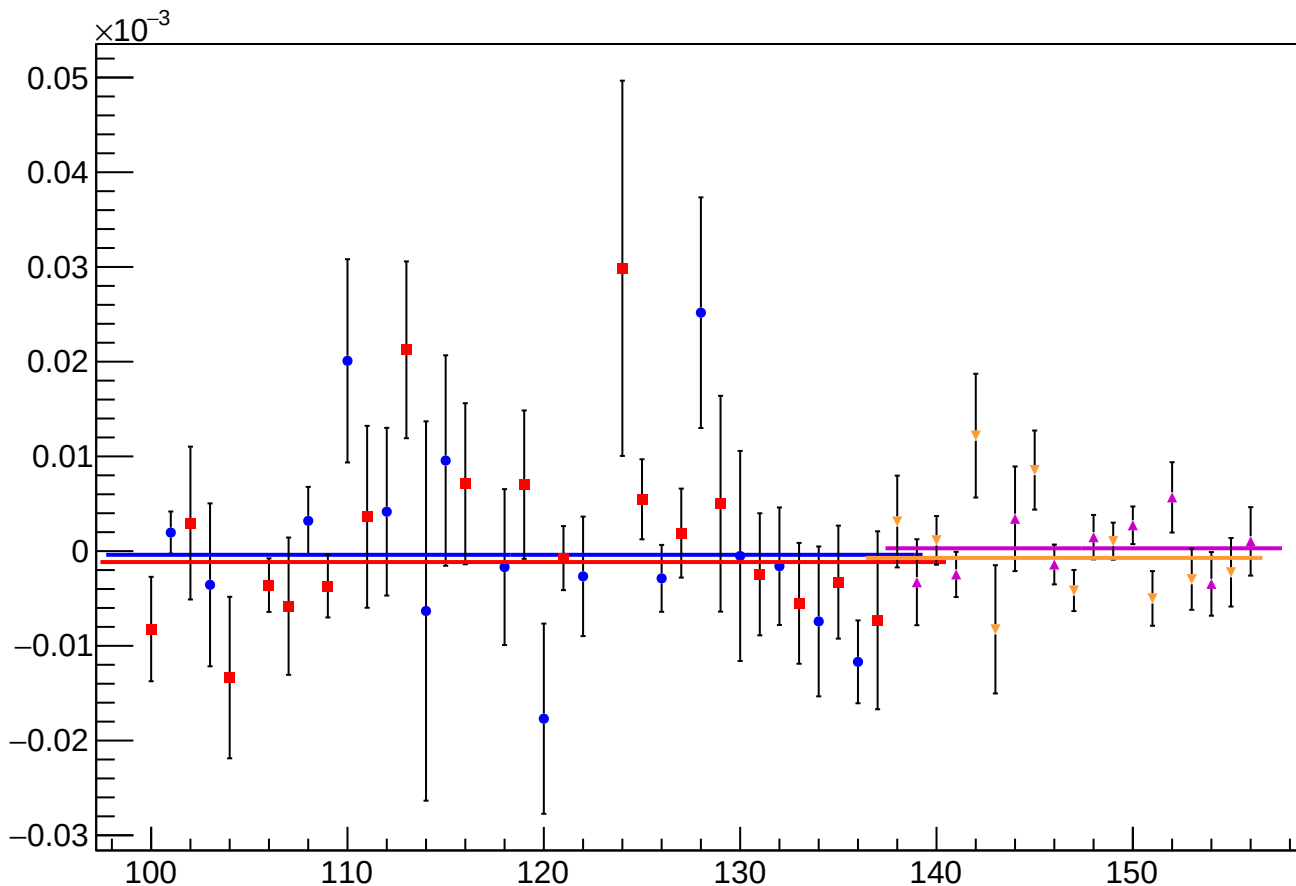
Right: 58.651+/-0.013 χ^2/NDF : 4584001.9/34

In: 57.569+/-0.012 χ^2/NDF : 2918044.7/24

Out: 55.397+/-0.012 χ^2/NDF : 3841711.9/28

All: 56.468+/-0.008 χ^2/NDF : 6777181.9/53

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.4/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 20.4/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 8.1/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 26.1/18$

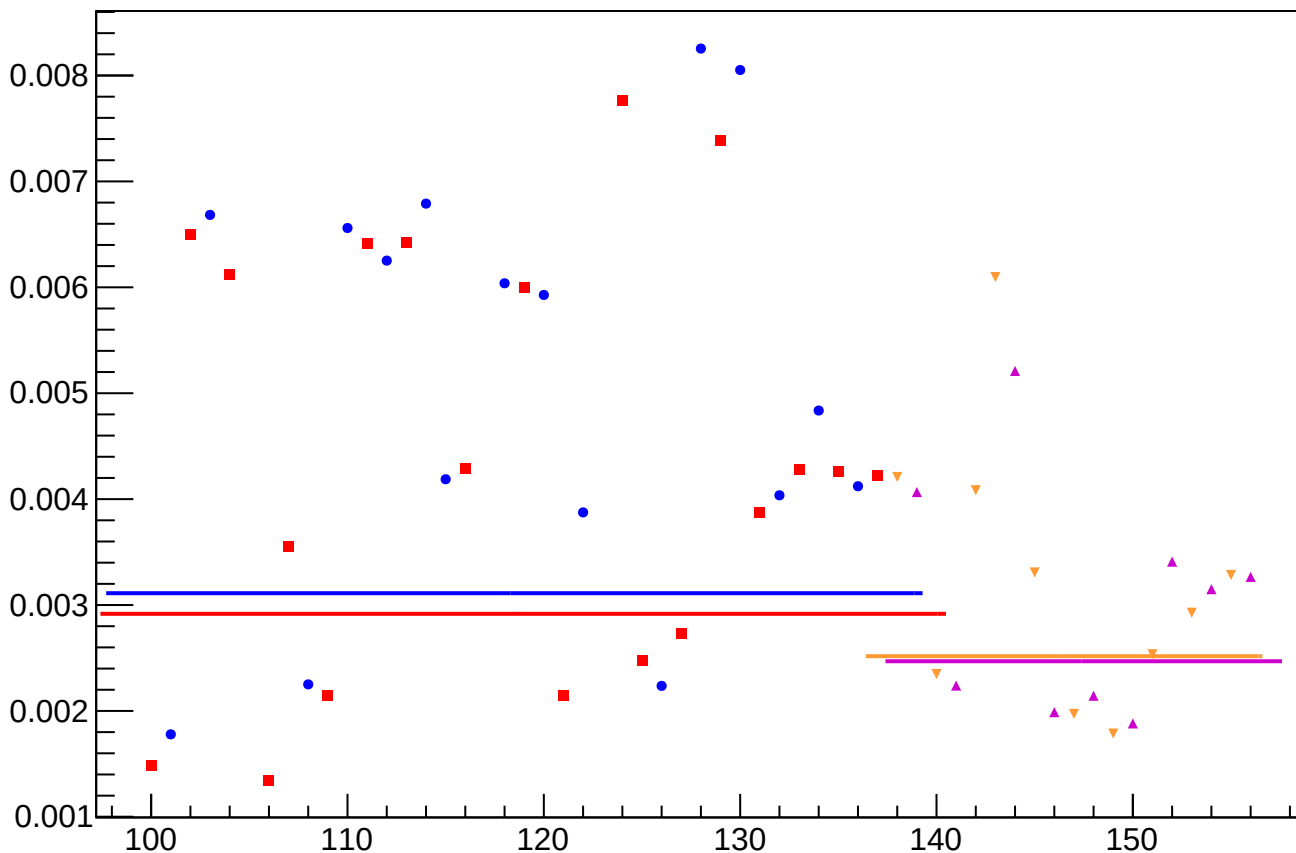
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 43.2/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 30.8/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 38.0/28$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 69.5/53$

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 :1526660.3/9

Right Out: 0.003+/-0.000 χ^2/NDF : 3295506.1/18

Left In: 0.002+/-0.000 χ^2/NDF :1383967.4/8

Left: 0.002+/-0.000 χ^2/NDF : 2913141.2/18

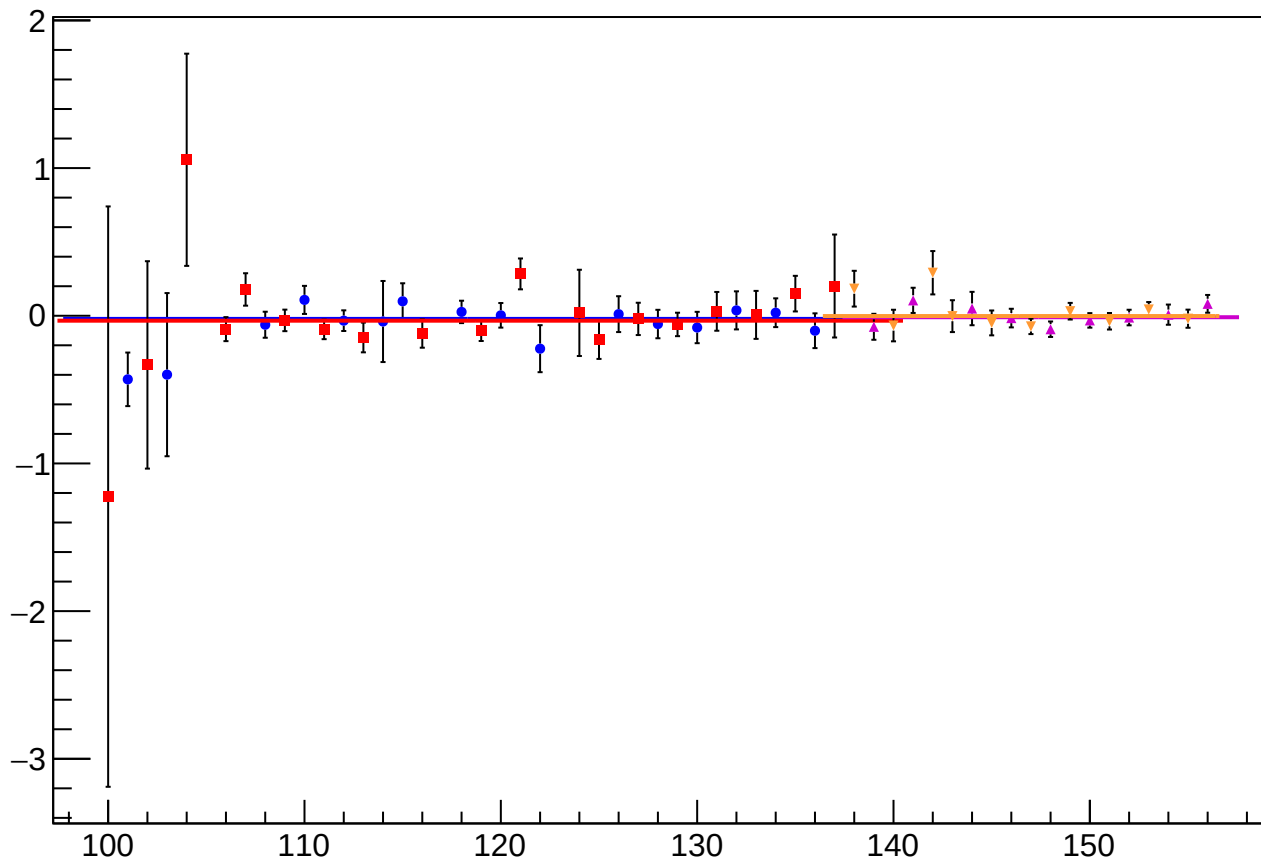
Right: 0.003+/-0.000 χ^2/NDF : 6602078.2/34

In: 0.003+/-0.000 χ^2/NDF :4980824.3/24

Out: 0.003+/-0.000 χ^2/NDF :4949838.0/28

All: 0.003+/-0.000 χ^2/NDF : 9930957.2/53

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: -0.002 ± 0.022 $\chi^2/\text{NDF}: 10.4/9$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: -0.010 ± 0.021 $\chi^2/\text{NDF}: 7.6/8$

Left: -0.006 ± 0.015 $\chi^2/\text{NDF}: 18.0/18$

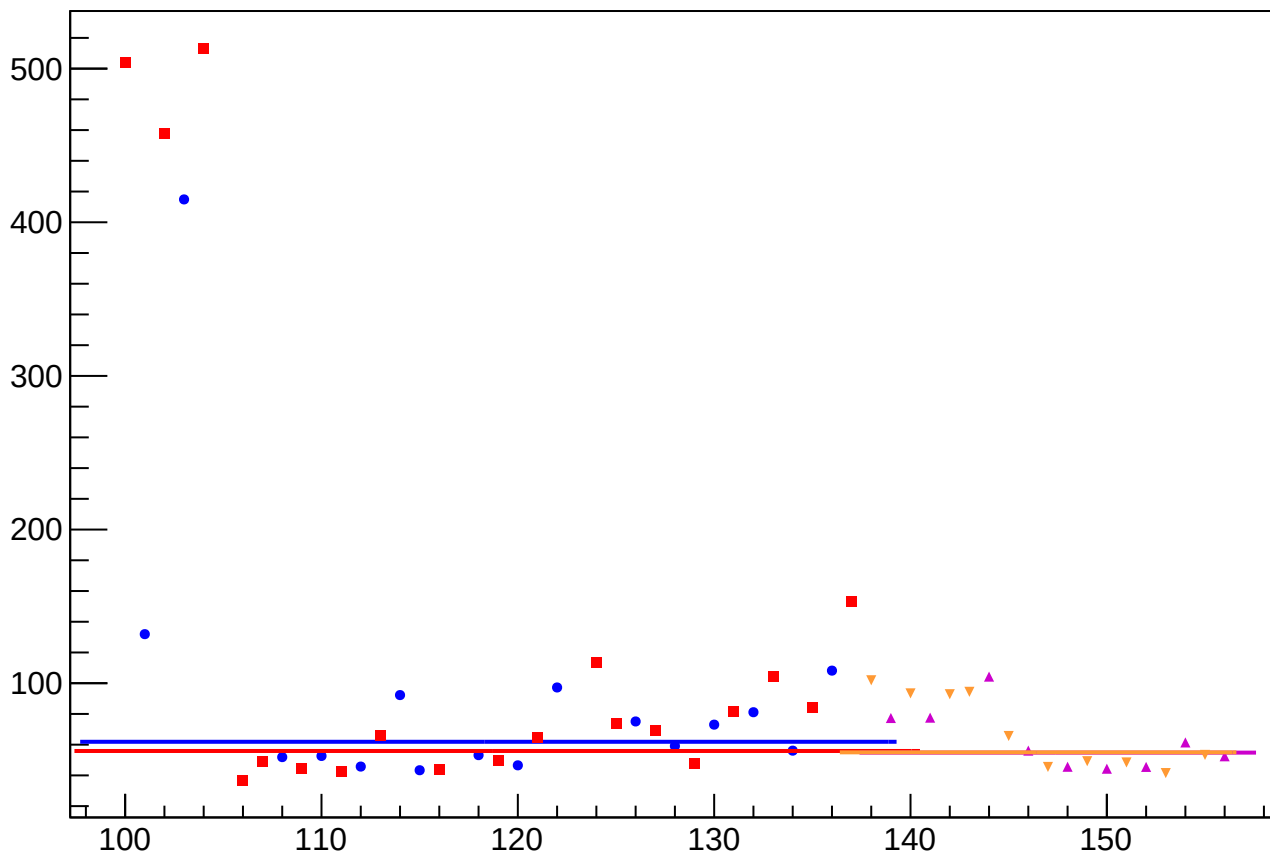
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.014 ± 0.017 $\chi^2/\text{NDF}: 19.7/24$

Out: -0.016 ± 0.016 $\chi^2/\text{NDF}: 35.7/28$

All: -0.015 ± 0.012 $\chi^2/\text{NDF}: 55.4/53$

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.875+/-0.019 χ^2/NDF : 1937904.4/15

Left Out: 55.008+/-0.015 χ^2/NDF : 1249055.9/9

Right Out: 55.886+/-0.017 χ^2/NDF : 2591233.7/18

Left In: 54.823+/-0.015 χ^2/NDF : 893923.7/8

Left: 54.913+/-0.011 χ^2/NDF : 2143053.4/18

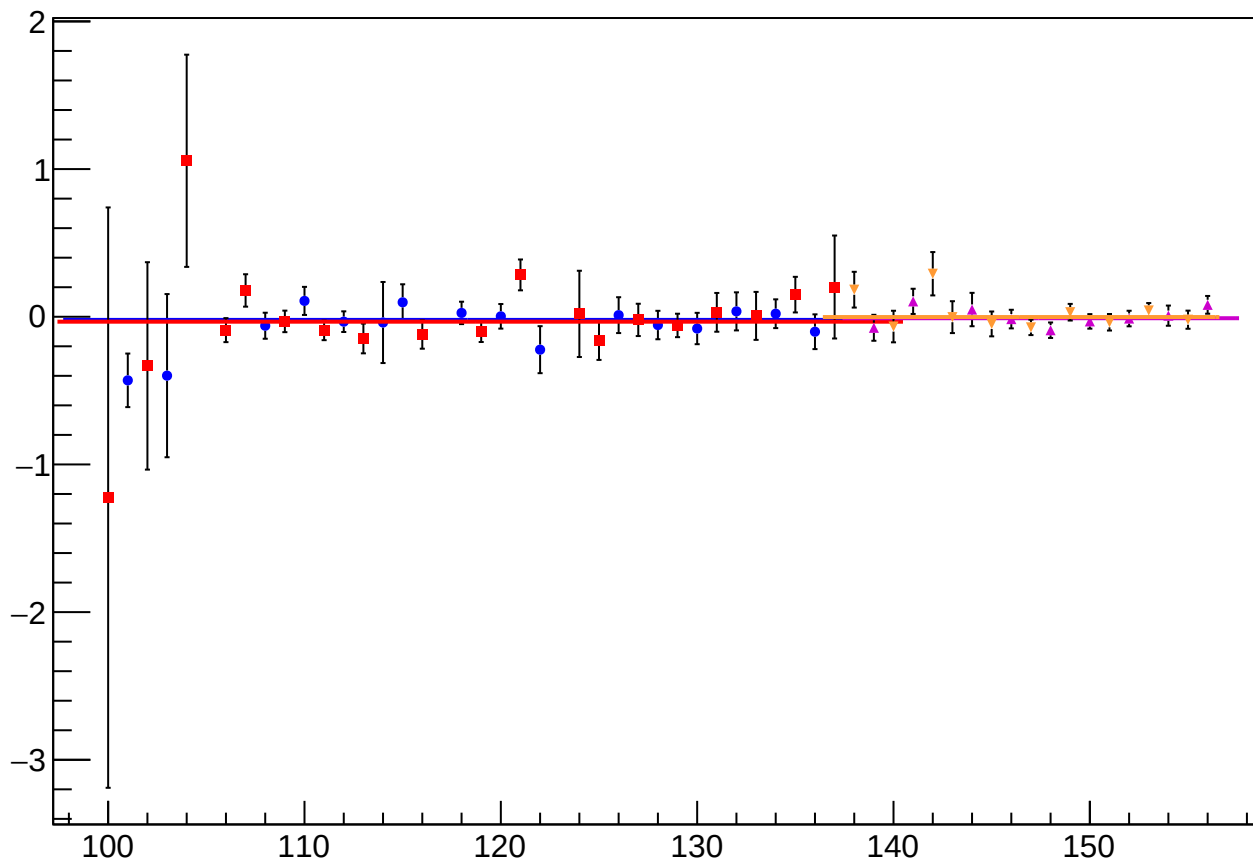
Right: 58.650+/-0.013 χ^2/NDF : 4583914.2/34

In: 57.569+/-0.012 χ^2/NDF : 2917955.6/24

Out: 55.396+/-0.012 χ^2/NDF : 3841714.0/28

All: 56.467+/-0.008 χ^2/NDF : 6777103.6/53

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 χ^2/NDF : 12.0/15

Left Out: -0.002 ± 0.022 χ^2/NDF : 10.4/9

Right Out: -0.033 ± 0.025 χ^2/NDF : 24.4/18

Left In: -0.010 ± 0.021 χ^2/NDF : 7.6/8

Left: -0.006 ± 0.015 χ^2/NDF : 18.0/18

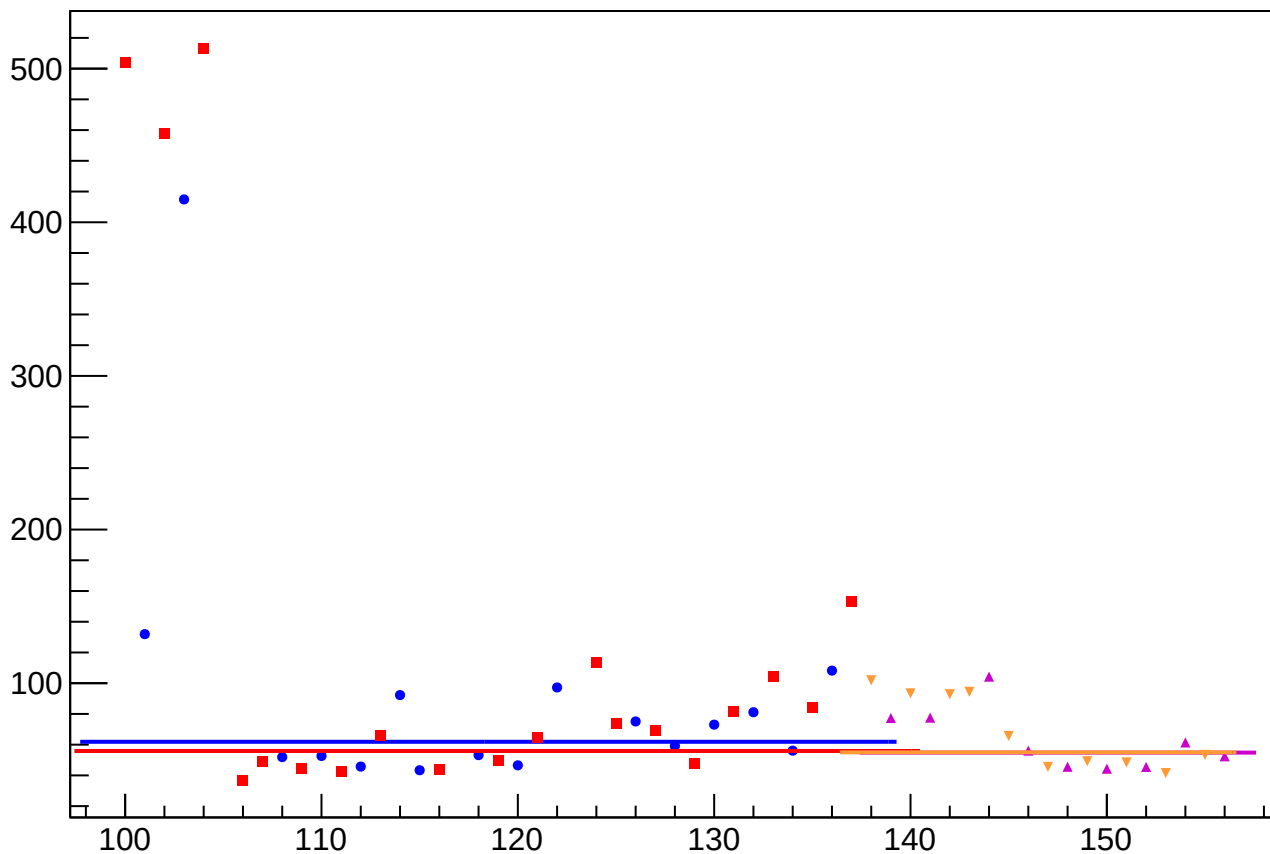
Right: -0.028 ± 0.018 χ^2/NDF : 36.5/34

In: -0.014 ± 0.017 χ^2/NDF : 19.7/24

Out: -0.016 ± 0.016 χ^2/NDF : 35.7/28

All: -0.015 ± 0.012 χ^2/NDF : 55.4/53

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: 55.008+/-0.015 χ^2/NDF : 1249055.9/9

Right Out: 55.886+/-0.017 χ^2/NDF : 2591233.7/18

Left In: 54.823+/-0.015 χ^2/NDF : 893923.7/8

Left: 54.913+/-0.011 χ^2/NDF : 2143053.4/18

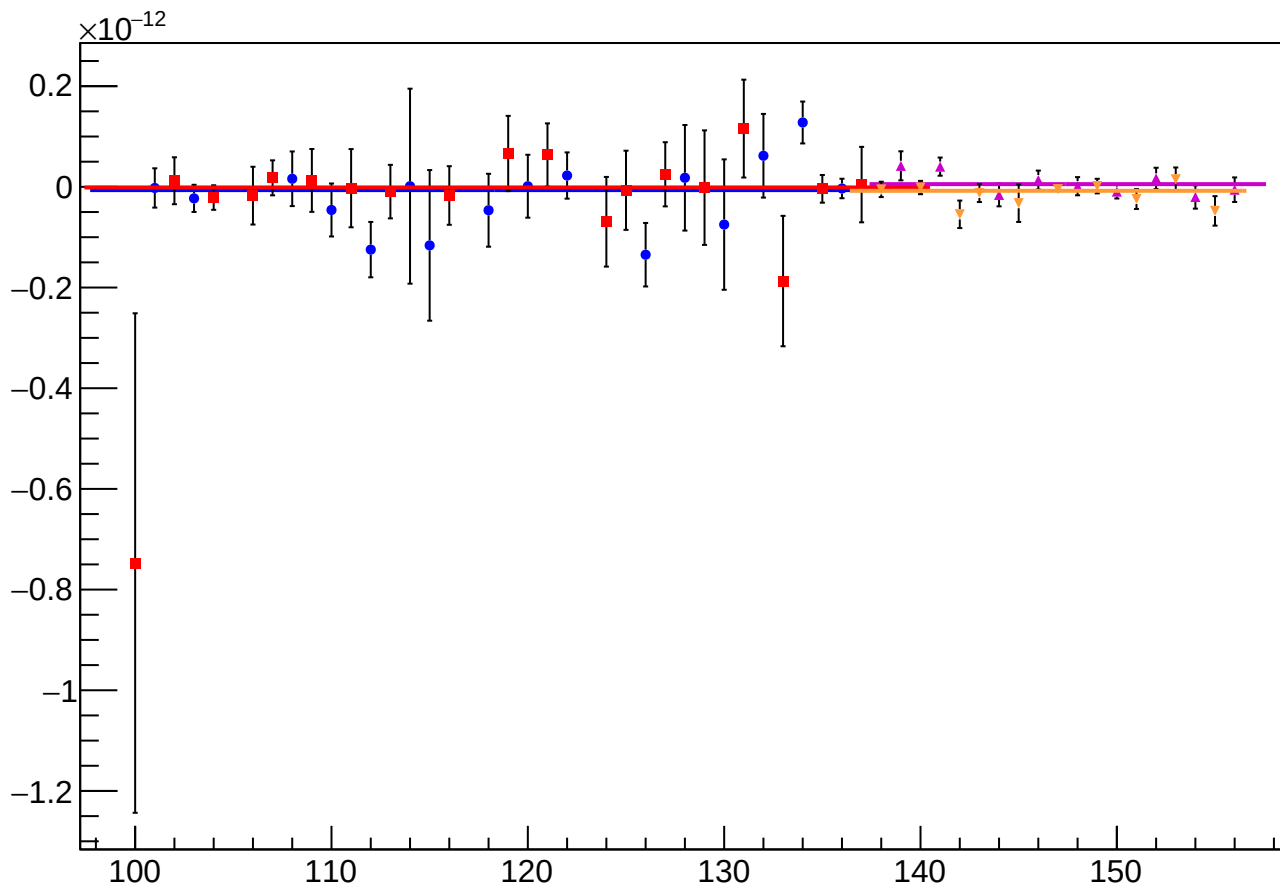
Right: 58.650+/-0.013 χ^2/NDF : 4583914.2/34

In: 57.569+/-0.012 χ^2/NDF : 2917955.6/24

Out: 55.396+/-0.012 χ^2/NDF : 3841714.0/28

All: 56.467+/-0.008 χ^2/NDF : 6777103.6/53

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 : 7.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 9.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 9.3/8

Left: -0.000+/-0.000 χ^2/NDF : 19.6/18

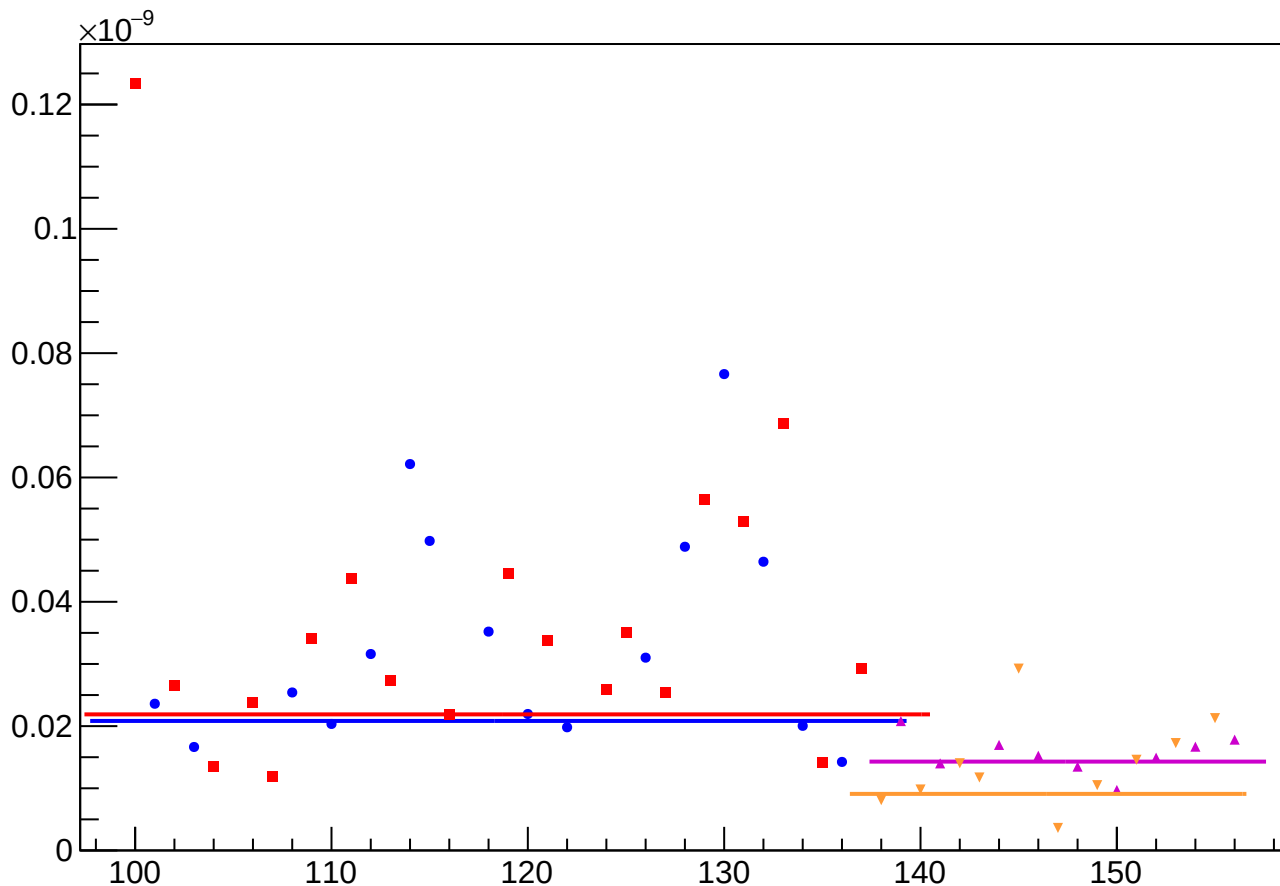
Right: -0.000+/-0.000 χ^2/NDF : 32.4/34

In: 0.000+/-0.000 χ^2/NDF : 32.7/24

Out: -0.000+/-0.000 χ^2/NDF : 17.7/28

All: -0.000+/-0.000 χ^2/NDF : 52.1/53

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 :2330913.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1906656.1/18

Left In: 0.000+/-0.000 χ^2/NDF :426546.5/8

Left: 0.000+/-0.000 χ^2/NDF : 3548712.9/18

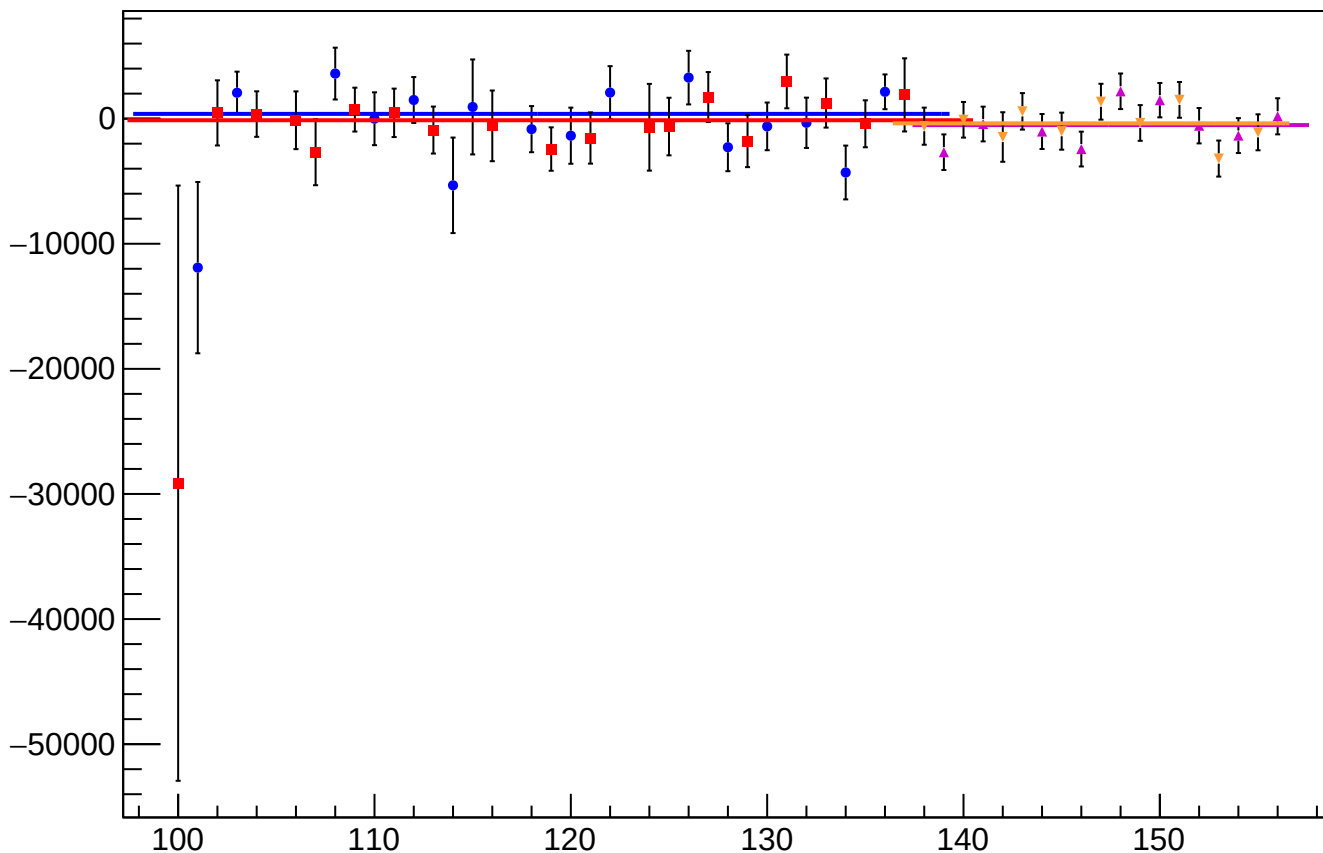
Right: 0.000+/-0.000 χ^2/NDF : 3299556.5/34

In: 0.000+/-0.000 χ^2/NDF :2313303.3/24

Out: 0.000+/-0.000 χ^2/NDF :6200837.1/28

All: 0.000+/-0.000 χ^2/NDF : 9419082.1/53

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: -376.097 ± 468.188 $\chi^2/\text{NDF}: 8.2/9$

Right Out: -127.929 ± 500.988 $\chi^2/\text{NDF}: 10.0/18$

Left In: -515.390 ± 468.526 $\chi^2/\text{NDF}: 10.7/8$

Left: -445.693 ± 331.178 $\chi^2/\text{NDF}: 18.9/18$

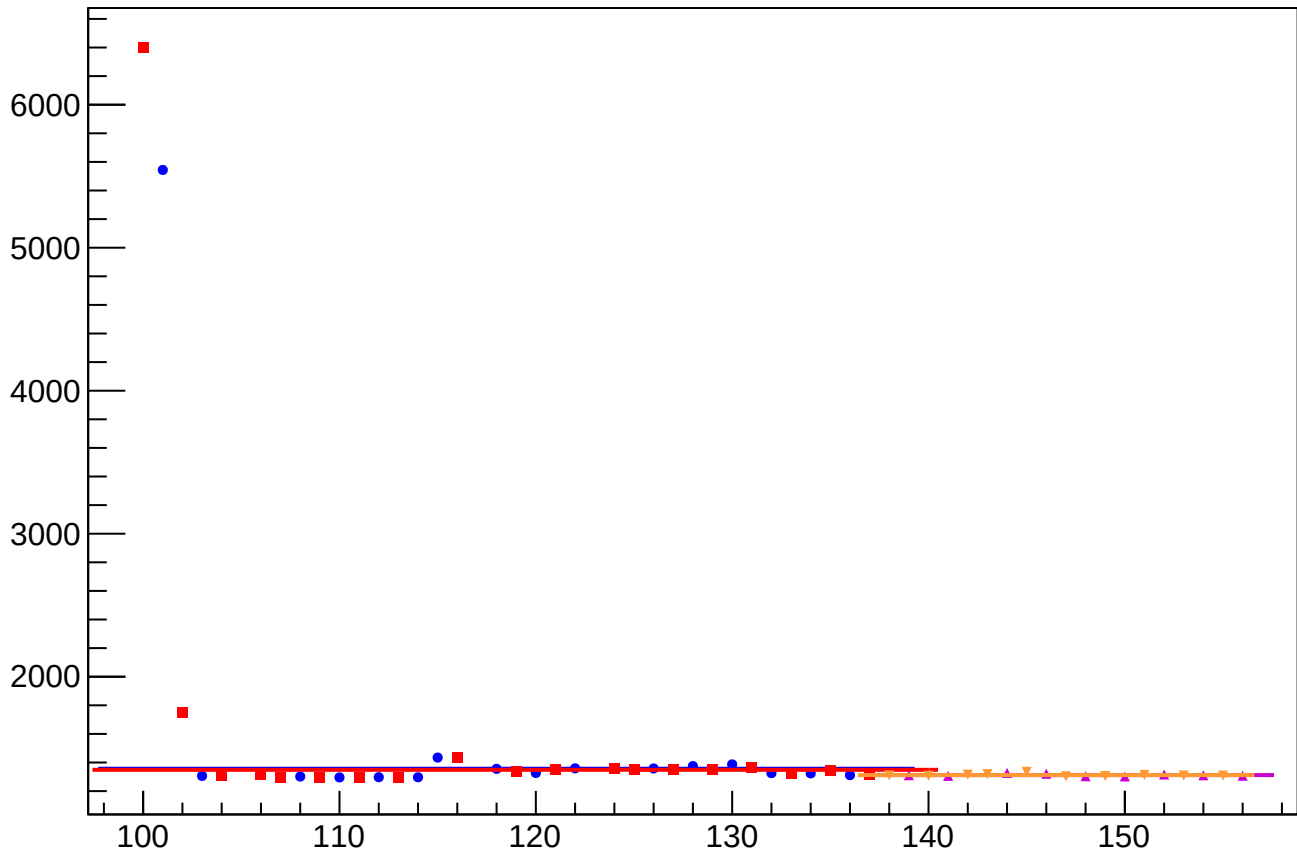
Right: 118.340 ± 360.045 $\chi^2/\text{NDF}: 32.0/34$

In: -111.674 ± 347.412 $\chi^2/\text{NDF}: 33.8/24$

Out: -260.402 ± 342.067 $\chi^2/\text{NDF}: 18.3/28$

All: -187.191 ± 243.746 $\chi^2/\text{NDF}: 52.3/53$

reg_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397+/-0.366 χ^2/NDF : 760266.3/15

Left Out: 1312.243+/-0.331 χ^2/NDF : 670.7/9

Right Out: 1348.975+/-0.354 χ^2/NDF : 147265.6/18

Left In: 1312.076+/-0.331 χ^2/NDF : 560.5/8

Left: 1312.160+/-0.234 χ^2/NDF : 1231.4/18

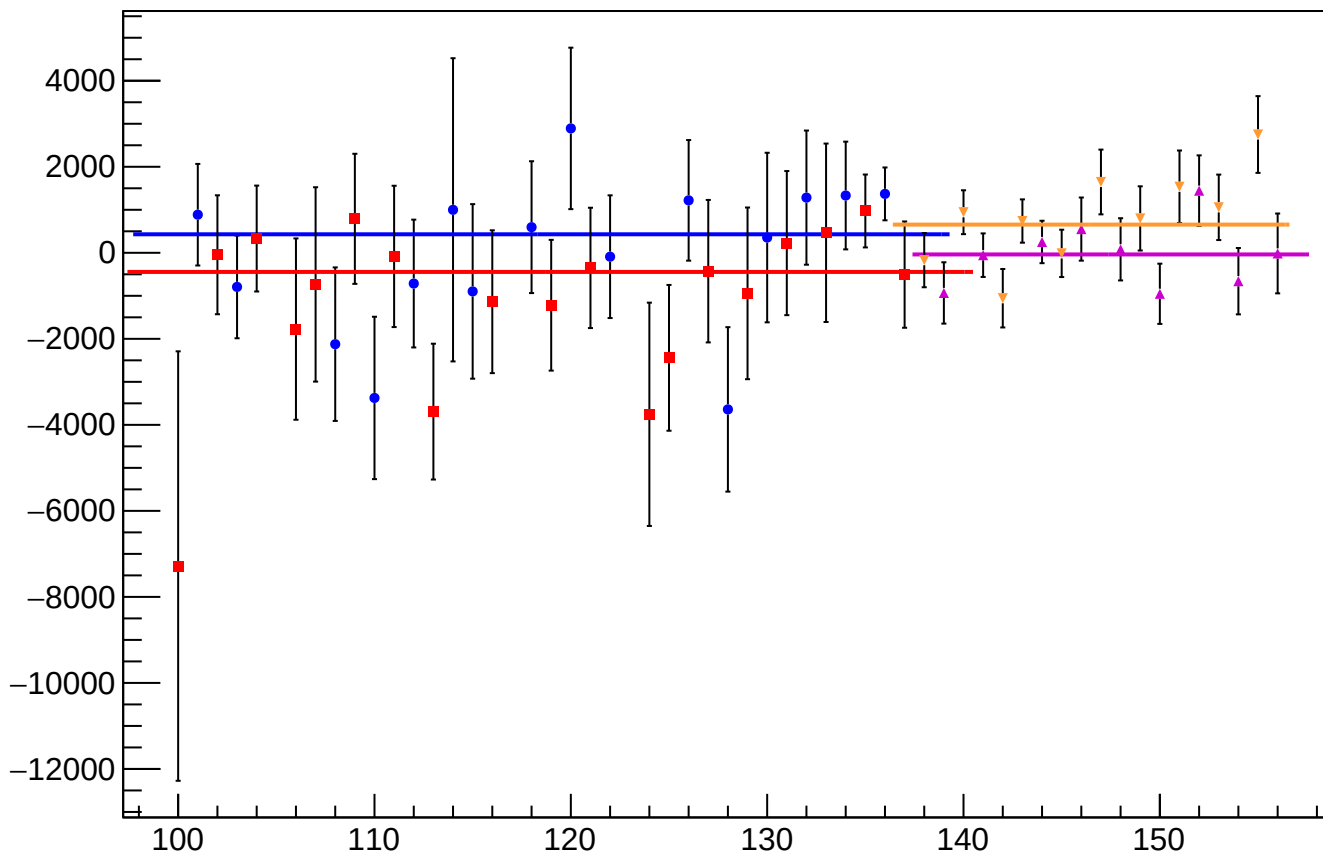
Right: 1352.564+/-0.255 χ^2/NDF : 907744.1/34

In: 1332.029+/-0.246 χ^2/NDF : 768883.6/24

Out: 1329.367+/-0.242 χ^2/NDF : 153675.5/28

All: 1330.677+/-0.172 χ^2/NDF : 922618.6/53

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: 655.828 $\pm$ 205.284 χ^2 /NDF:18.5/9

Right Out: -444.555 $\pm$ 355.594 χ^2 /NDF: 14.4/18

Left In: -37.922 $\pm$ 222.968 χ^2 /NDF:8.2/8

Left: 337.551 $\pm$ 151.023 χ^2 /NDF: 32.0/18

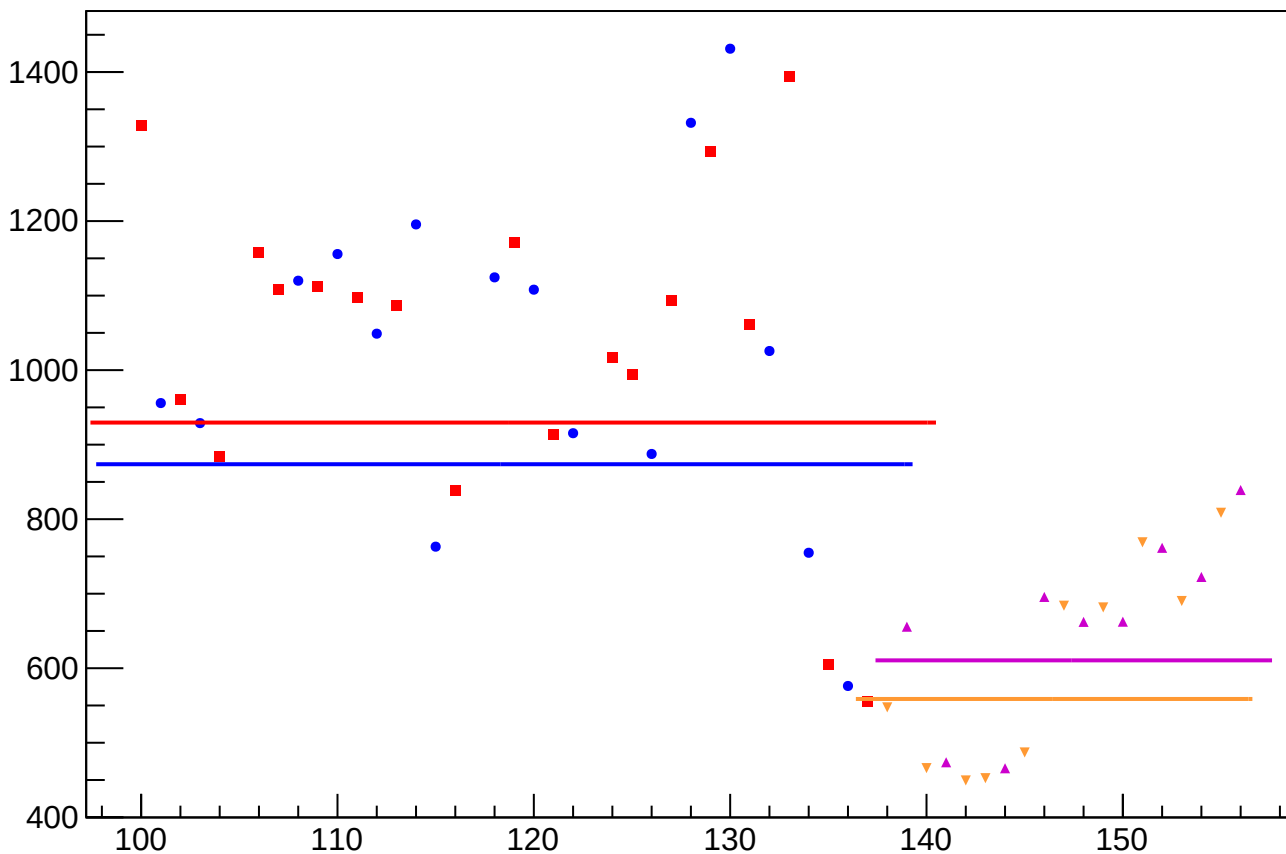
Right: 14.491 $\pm$ 245.161 χ^2 /NDF: 35.8/34

In: 103.800 $\pm$ 186.196 χ^2 /NDF:27.8/24

Out: 380.769 $\pm$ 177.785 χ^2 /NDF:40.1/28

All: 248.681 $\pm$ 128.584 χ^2 /NDF: 69.1/53

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: 558.742 $\pm$ 0.145 χ^2 /NDF: 692201.1/9

Right Out: 929.637 $\pm$ 0.251 χ^2 /NDF: 859936.0/18

Left In: 610.544 $\pm$ 0.158 χ^2 /NDF: 605698.5/8

Left: 582.508 $\pm$ 0.107 χ^2 /NDF: 1356325.7/18

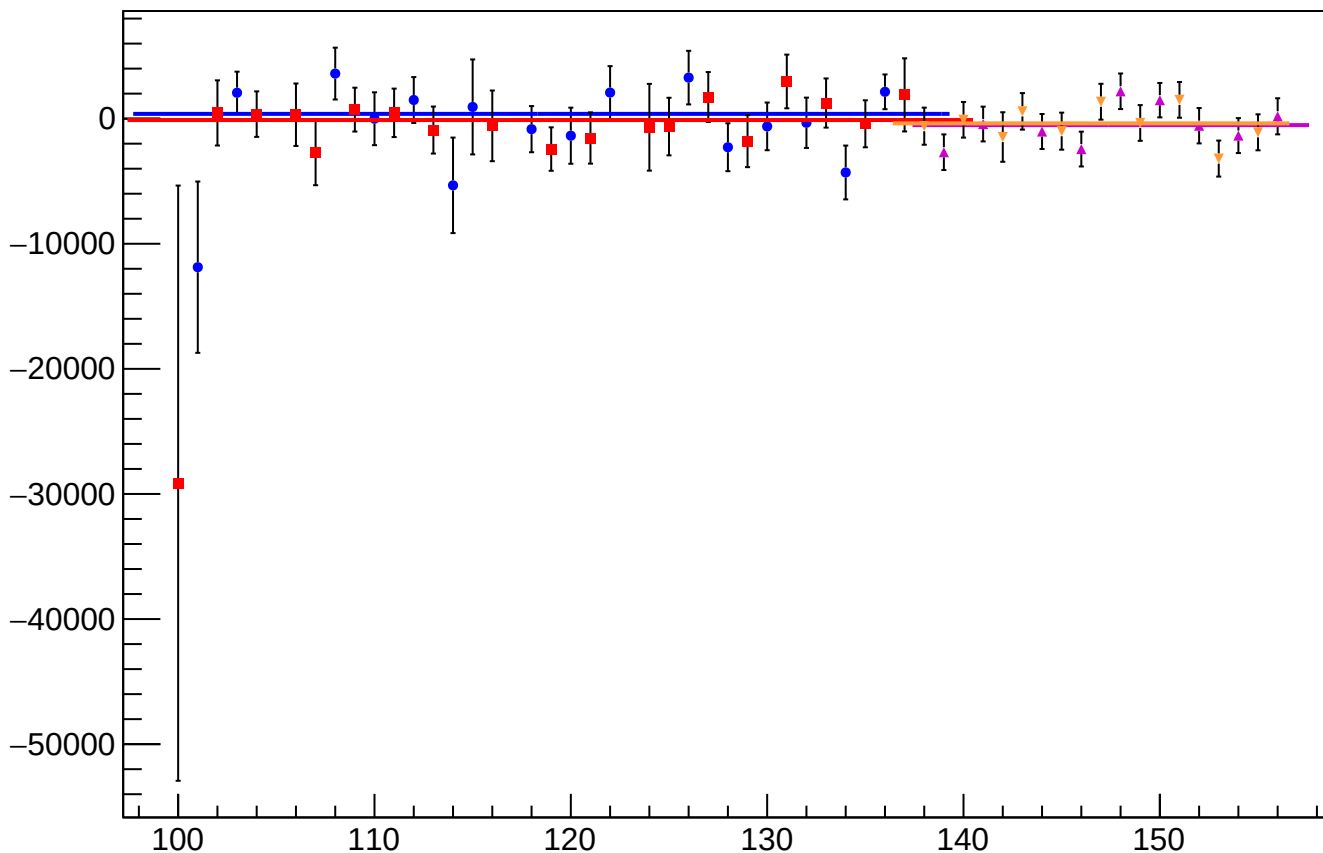
Right: 900.305 $\pm$ 0.173 χ^2 /NDF: 1900732.3/34

In: 690.196 $\pm$ 0.132 χ^2 /NDF: 2463908.7/24

Out: 651.454 $\pm$ 0.126 χ^2 /NDF: 3184064.4/28

All: 669.930 $\pm$ 0.091 χ^2 /NDF: 5693266.2/53

cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.712 ± 517.789 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -376.144 ± 468.188 $\chi^2/\text{NDF}: 8.2/9$

Right Out: -110.280 ± 502.698 $\chi^2/\text{NDF}: 10.0/18$

Left In: -515.447 ± 468.526 $\chi^2/\text{NDF}: 10.7/8$

Left: -445.745 ± 331.178 $\chi^2/\text{NDF}: 18.9/18$

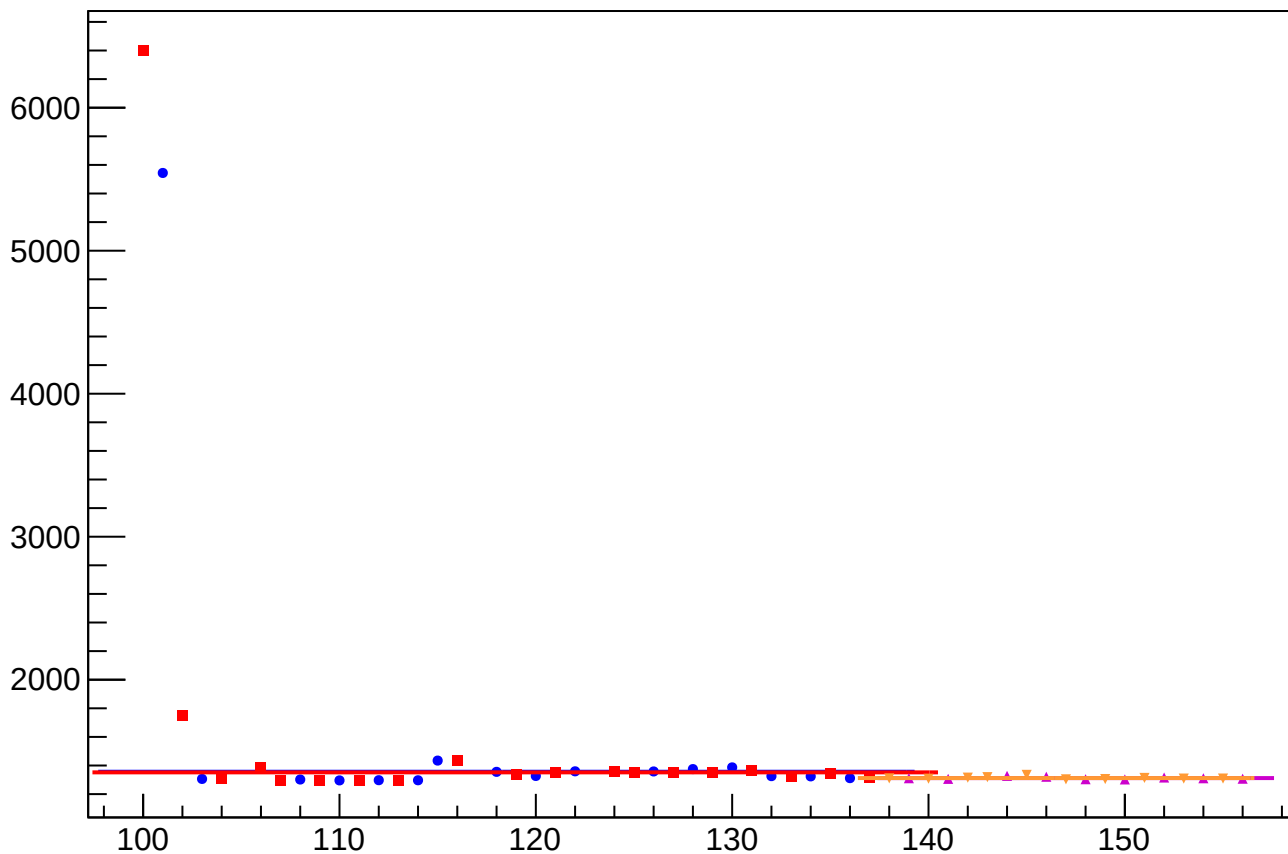
Right: 128.442 ± 360.678 $\chi^2/\text{NDF}: 32.0/34$

In: -111.566 ± 347.412 $\chi^2/\text{NDF}: 33.8/24$

Out: -252.651 ± 342.610 $\chi^2/\text{NDF}: 18.4/28$

All: -183.090 ± 243.942 $\chi^2/\text{NDF}: 52.3/53$

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: 1312.243 $\pm$ 0.331 χ^2 /NDF: 670.7/9

Right Out: 1352.083 $\pm$ 0.355 χ^2 /NDF: 147326.5/18

Left In: 1312.076 $\pm$ 0.331 χ^2 /NDF: 560.5/8

Left: 1312.160 $\pm$ 0.234 χ^2 /NDF: 1231.4/18

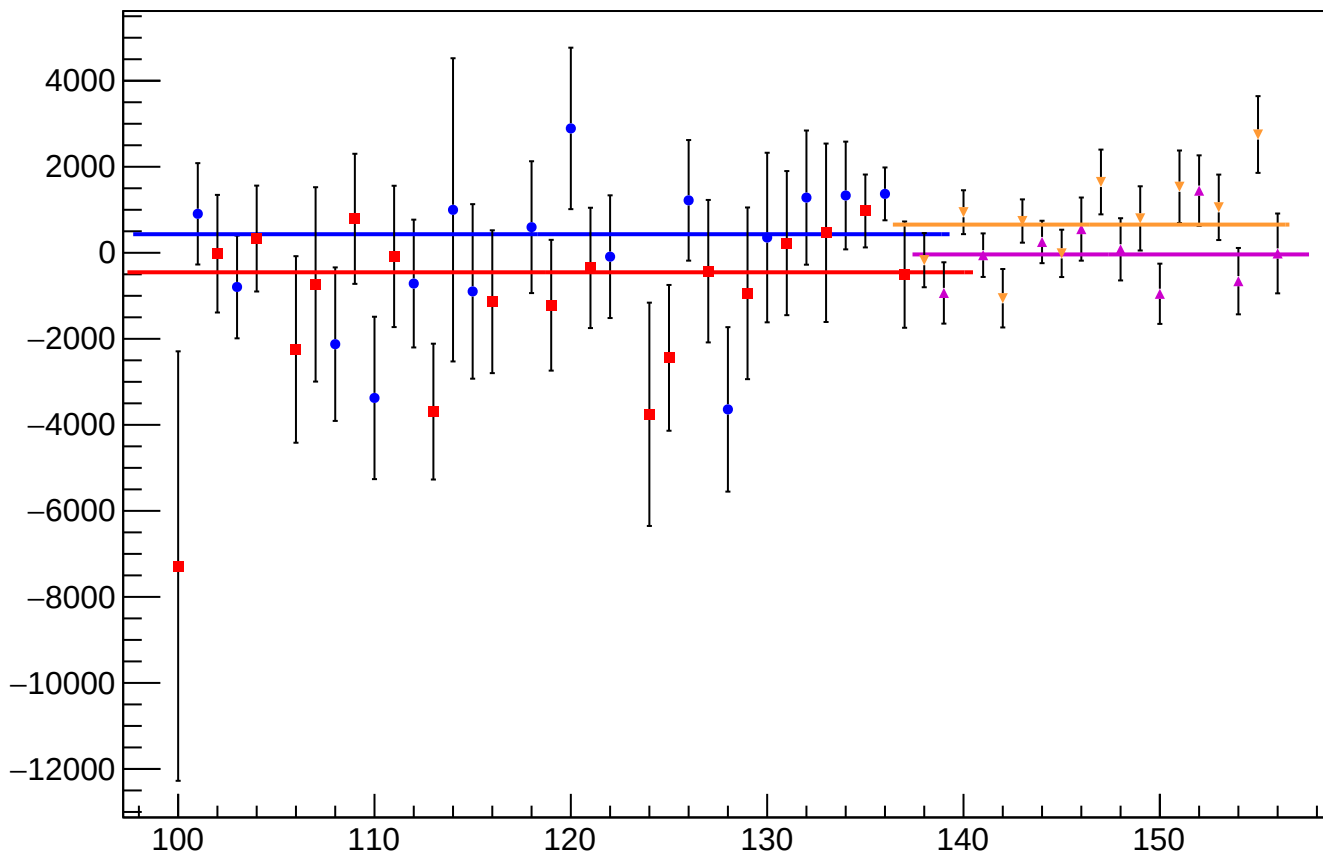
Right: 1354.176 $\pm$ 0.255 χ^2 /NDF: 907663.3/34

In: 1332.028 $\pm$ 0.246 χ^2 /NDF: 768882.6/24

Out: 1330.749 $\pm$ 0.242 χ^2 /NDF: 154724.4/28

All: 1331.380 $\pm$ 0.172 χ^2 /NDF: 923620.7/53

asym_usr_atr1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 432.135+/-338.403 χ^2/NDF : 18.2/15

Left Out: 655.757+/-205.286 χ^2/NDF : 18.5/9

Right Out: -453.039+/-355.599 χ^2/NDF : 14.7/18

Left In: -37.873+/-222.965 χ^2/NDF : 8.2/8

Left: 337.528+/-151.023 χ^2/NDF : 32.0/18

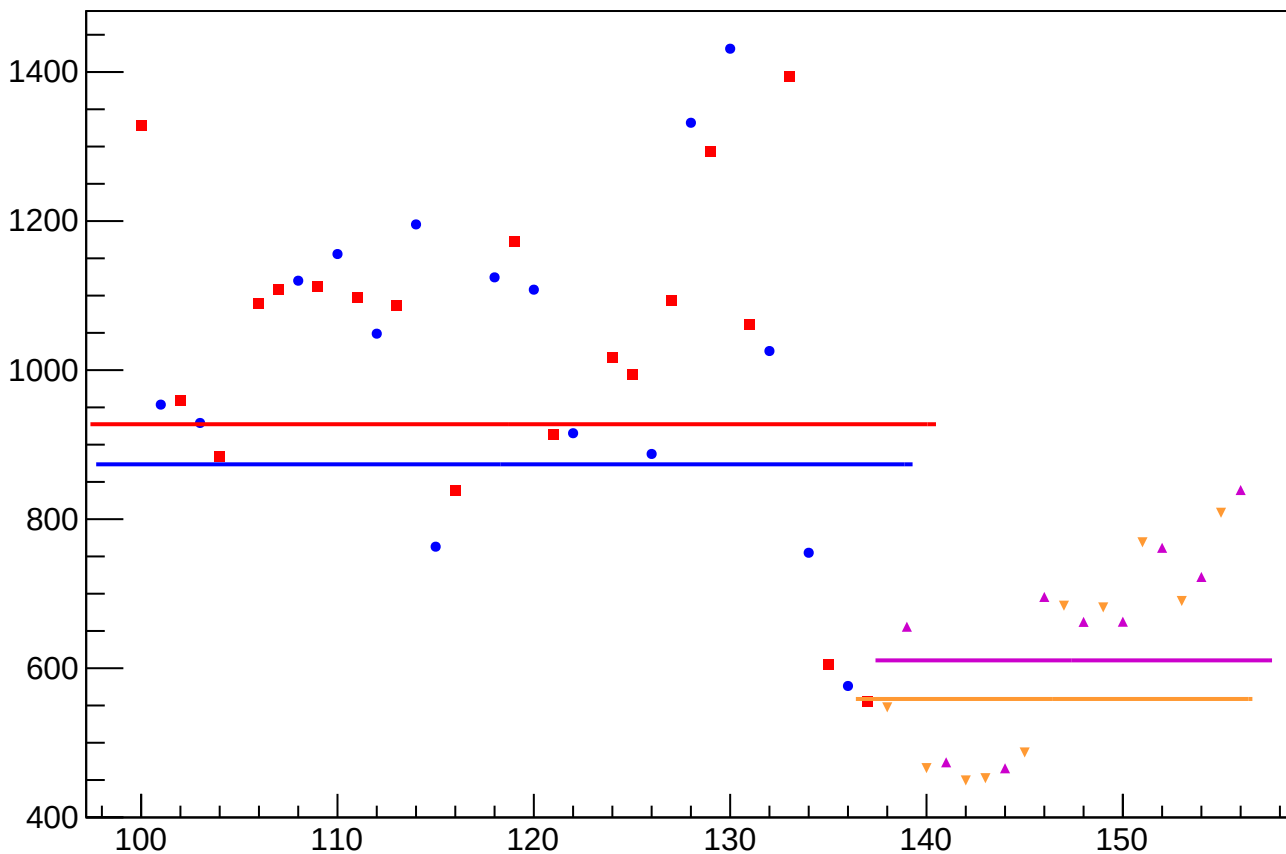
Right: 11.468+/-245.141 χ^2/NDF : 36.2/34

In: 104.401+/-186.185 χ^2/NDF : 27.8/24

Out: 378.598+/-177.787 χ^2/NDF : 40.5/28

All: 247.823+/-128.581 χ^2/NDF : 69.5/53

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: 558.747 $\pm$ 0.145 χ^2/NDF : 692189.5/9

Right Out: 927.407 $\pm$ 0.251 χ^2/NDF : 847382.0/18

Left In: 610.535 $\pm$ 0.158 χ^2/NDF : 605751.9/8

Left: 582.506 $\pm$ 0.107 χ^2/NDF : 1356338.6/18

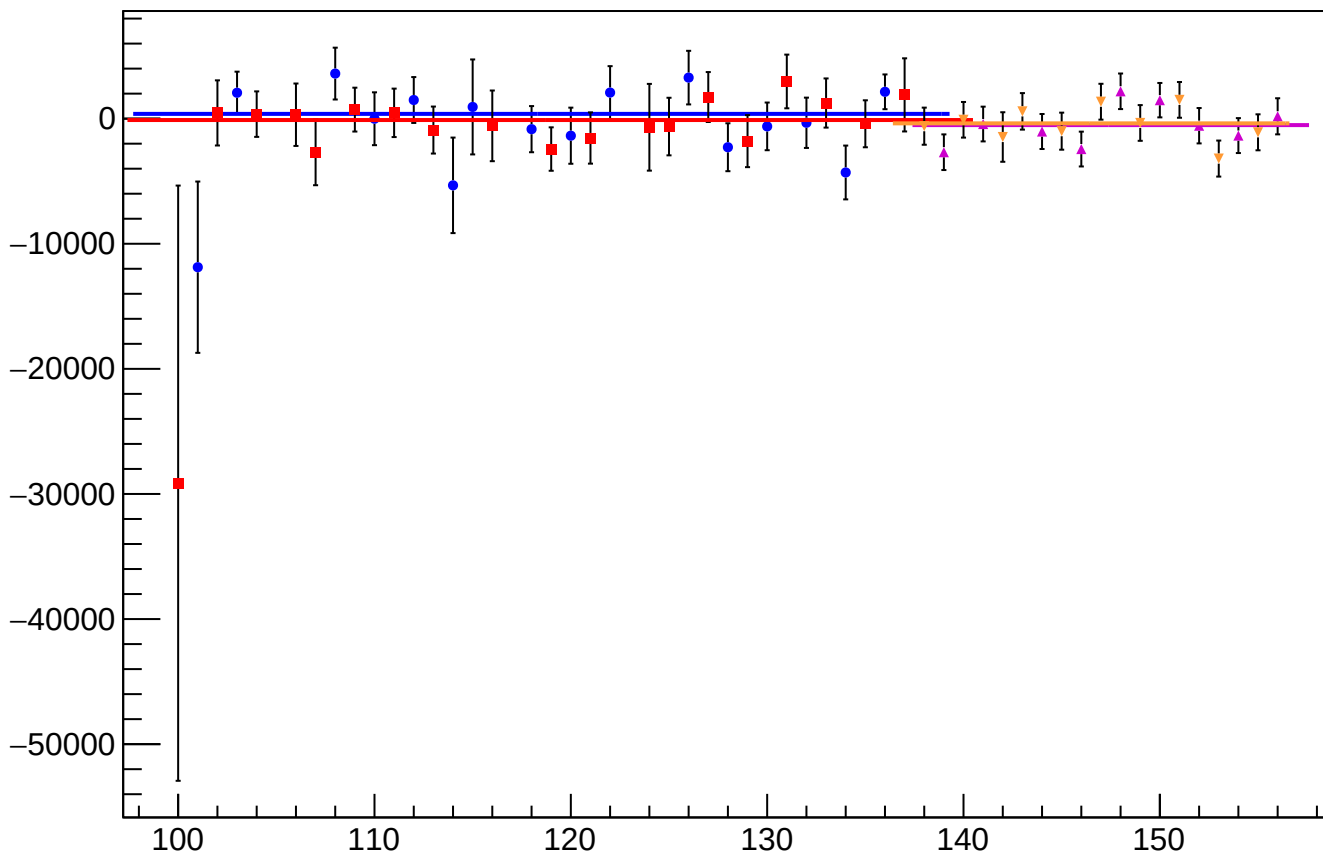
Right: 899.174 $\pm$ 0.173 χ^2/NDF : 1885812.2/34

In: 690.168 $\pm$ 0.132 χ^2/NDF : 2462957.4/24

Out: 650.898 $\pm$ 0.126 χ^2/NDF : 3151864.1/28

All: 669.628 $\pm$ 0.091 χ^2/NDF : 5661360.0/53

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: -376.144 ± 468.188 χ^2/NDF : 8.2/9

Right Out: -110.280 ± 502.698 χ^2/NDF : 10.0/18

Left In: -515.447 ± 468.526 χ^2/NDF : 10.7/8

Left: -445.745 ± 331.178 χ^2/NDF : 18.9/18

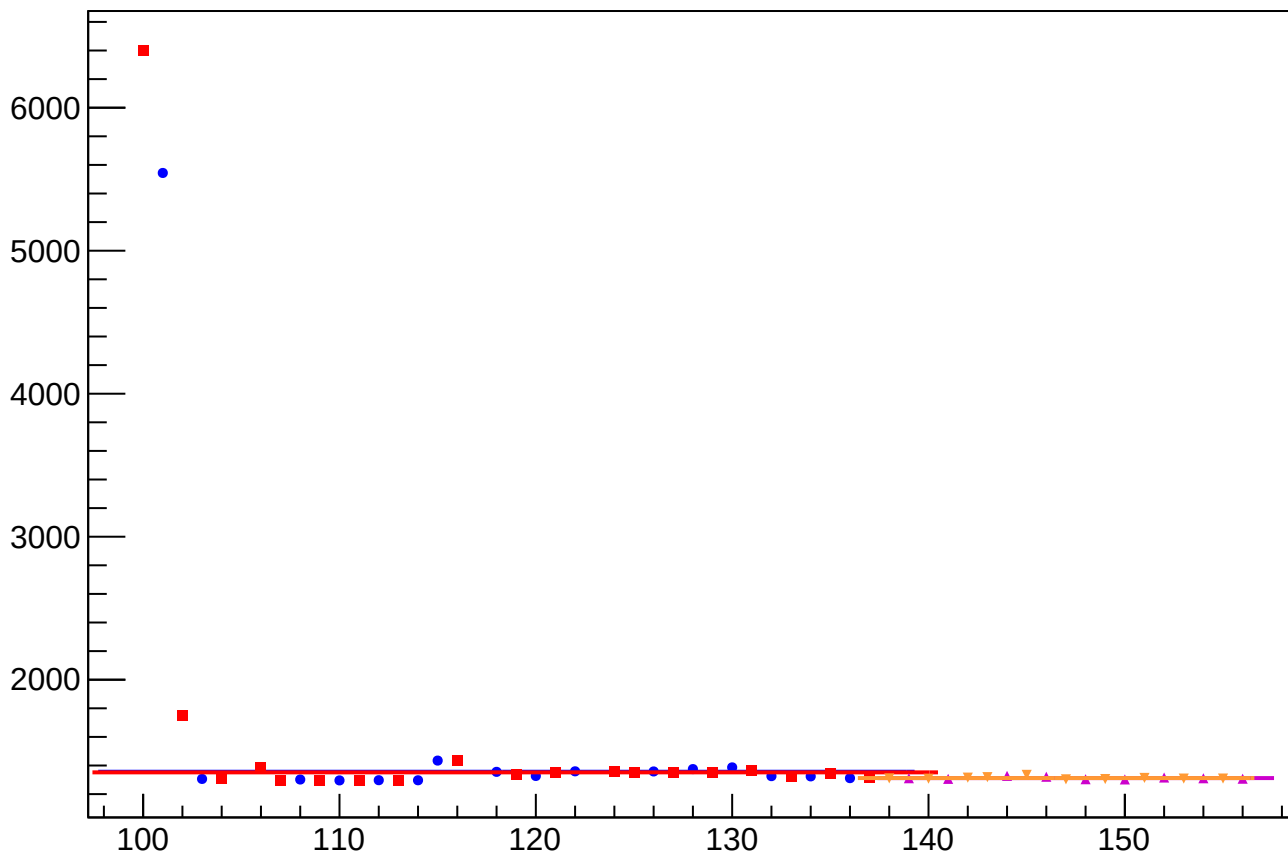
Right: 128.442 ± 360.678 χ^2/NDF : 32.0/34

In: -111.566 ± 347.412 χ^2/NDF : 33.8/24

Out: -252.651 ± 342.610 χ^2/NDF : 18.4/28

All: -183.090 ± 243.942 χ^2/NDF : 52.3/53

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: 1312.243+/-0.331 χ^2/NDF : 670.7/9

Right Out: 1352.083+/-0.355 χ^2/NDF : 147326.5/18

Left In: 1312.076+/-0.331 χ^2/NDF : 560.5/8

Left: 1312.160+/-0.234 χ^2/NDF : 1231.4/18

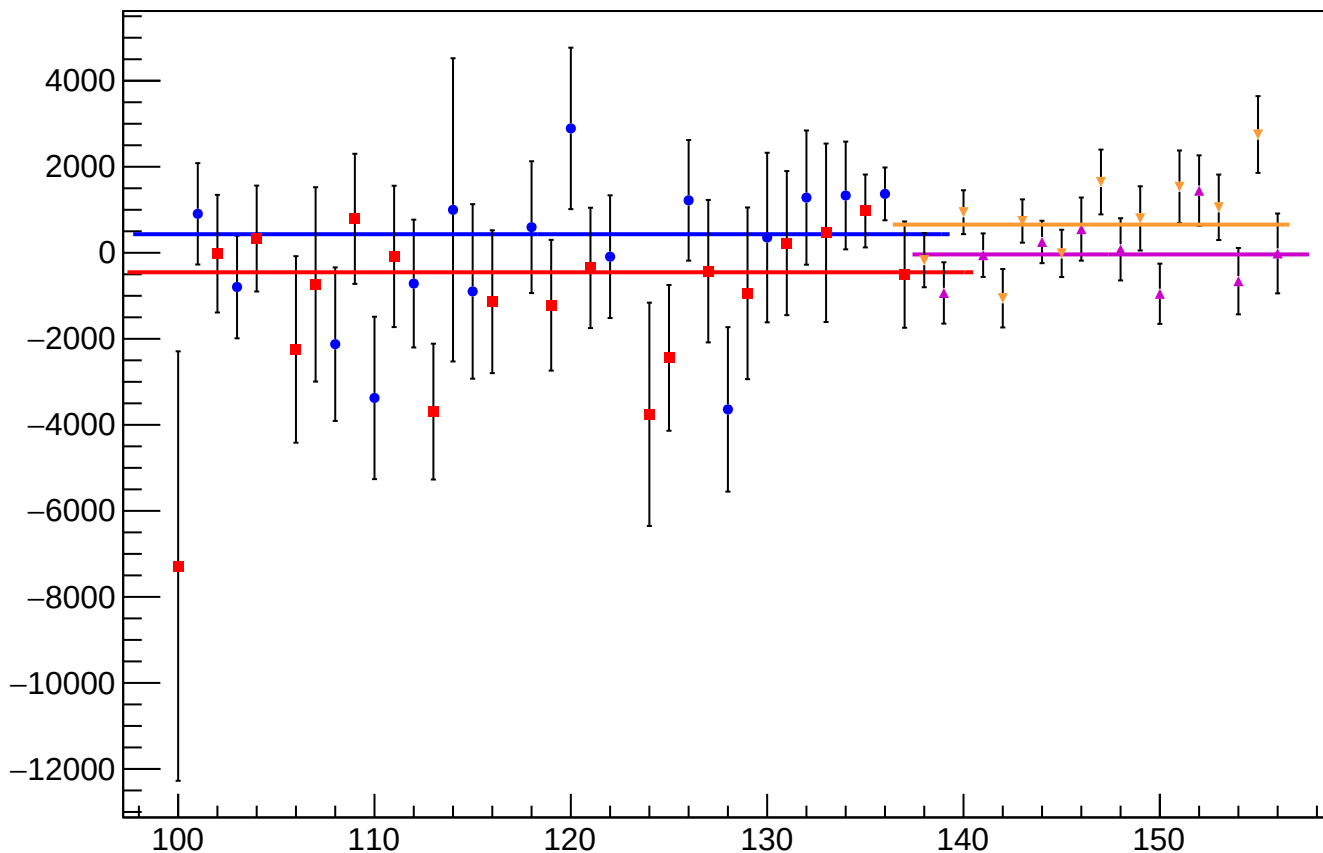
Right: 1354.176+/-0.255 χ^2/NDF : 907663.3/34

In: 1332.028+/-0.246 χ^2/NDF : 768882.6/24

Out: 1330.749+/-0.242 χ^2/NDF : 154724.4/28

All: 1331.380+/-0.172 χ^2/NDF : 923620.7/53

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: 655.757+/-205.286 χ^2/NDF : 18.5/9

Right Out: -453.039+/-355.599 χ^2/NDF : 14.7/18

Left In: -37.873+/-222.965 χ^2/NDF : 8.2/8

Left: 337.528+/-151.023 χ^2/NDF : 32.0/18

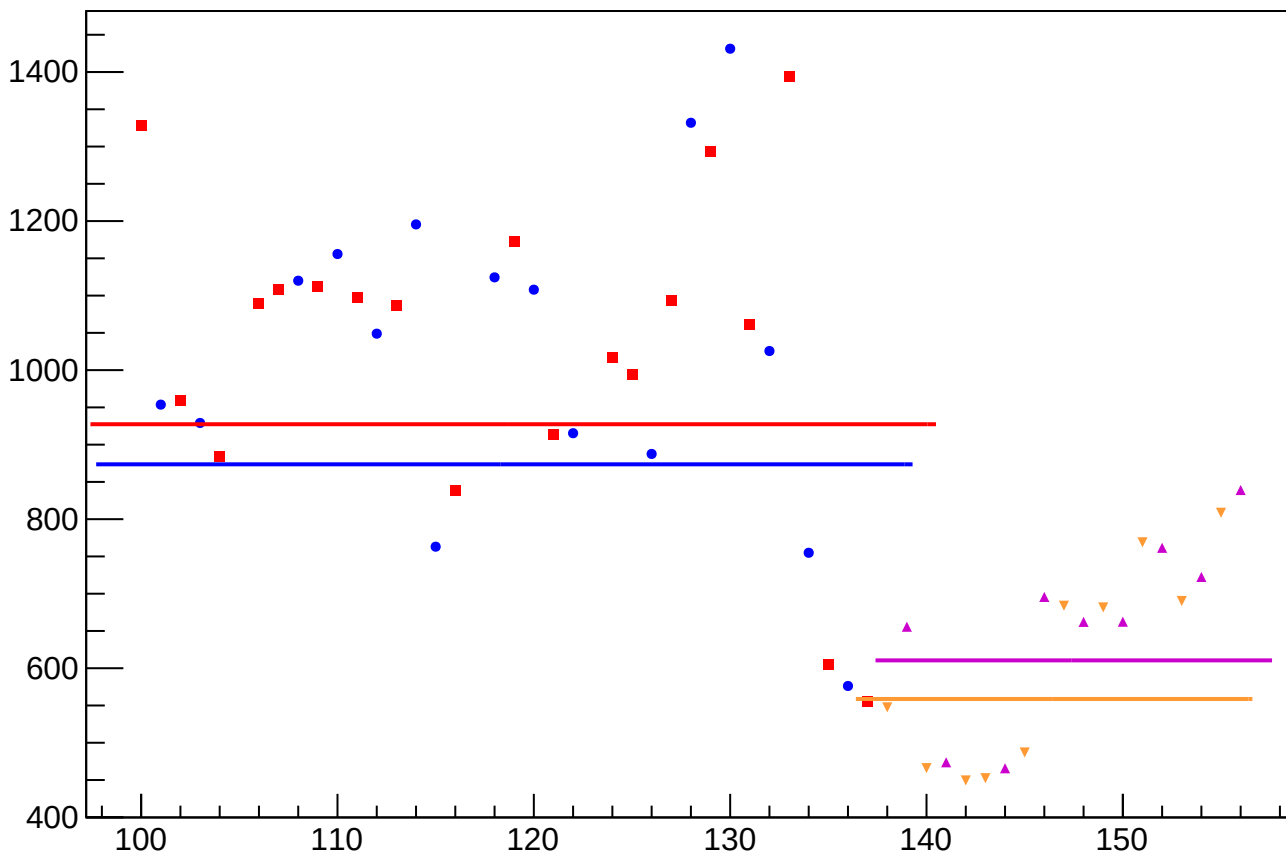
Right: 11.468+/-245.141 χ^2/NDF : 36.2/34

In: 104.401+/-186.185 χ^2/NDF : 27.8/24

Out: 378.598+/-177.787 χ^2/NDF : 40.5/28

All: 247.823+/-128.581 χ^2/NDF : 69.5/53

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: 558.747 $\pm$ 0.145 χ^2/NDF : 692189.5/9

Right Out: 927.407 $\pm$ 0.251 χ^2/NDF : 847382.0/18

Left In: 610.535 $\pm$ 0.158 χ^2/NDF : 605751.9/8

Left: 582.506 $\pm$ 0.107 χ^2/NDF : 1356338.6/18

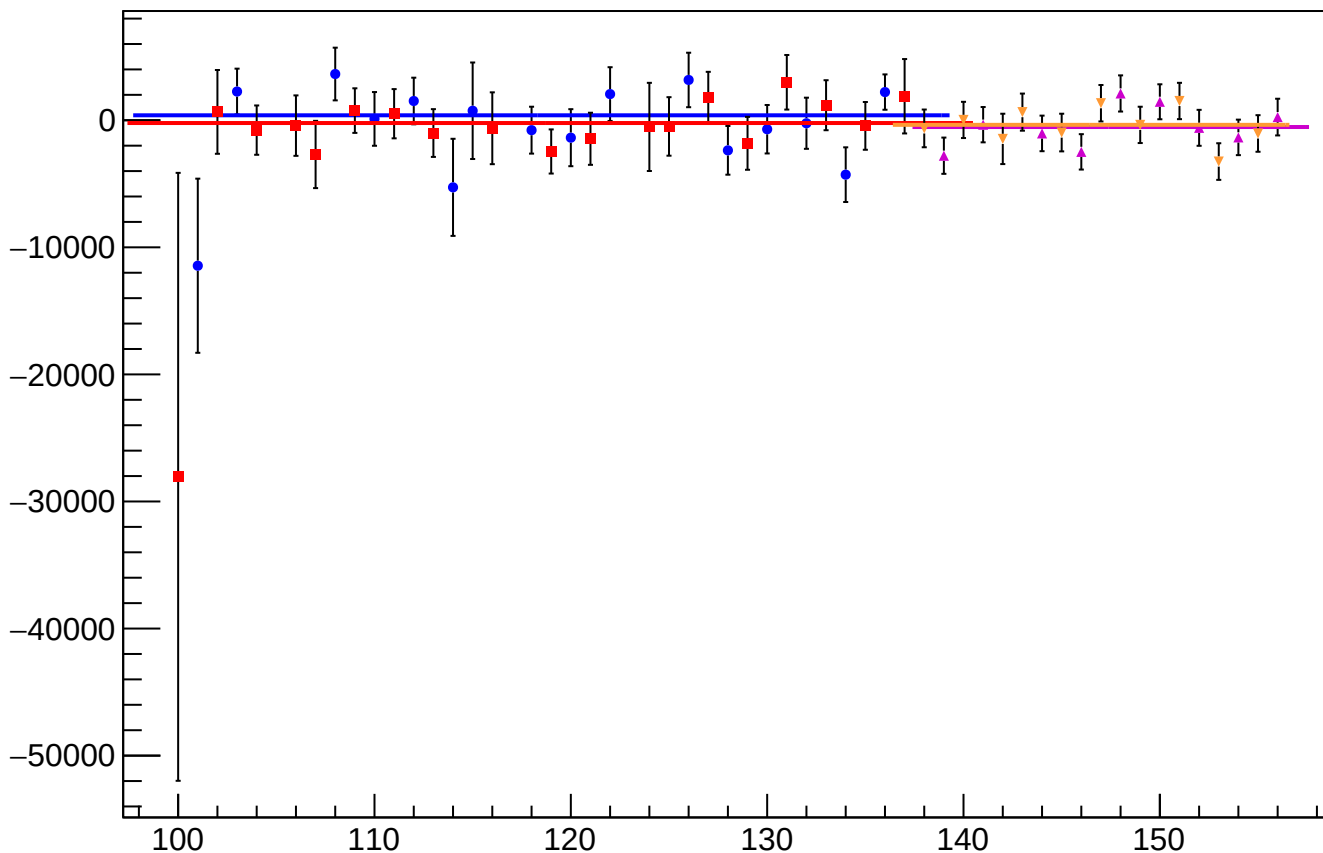
Right: 899.174 $\pm$ 0.173 χ^2/NDF : 1885812.2/34

In: 690.168 $\pm$ 0.132 χ^2/NDF : 2462957.4/24

Out: 650.898 $\pm$ 0.126 χ^2/NDF : 3151864.1/28

All: 669.628 $\pm$ 0.091 χ^2/NDF : 5661360.0/53

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: -361.301 ± 468.505 $\chi^2/\text{NDF}: 8.4/9$

Right Out: -218.184 ± 507.927 $\chi^2/\text{NDF}: 10.0/18$

Left In: -532.686 ± 468.841 $\chi^2/\text{NDF}: 10.8/8$

Left: -446.932 ± 331.402 $\chi^2/\text{NDF}: 19.3/18$

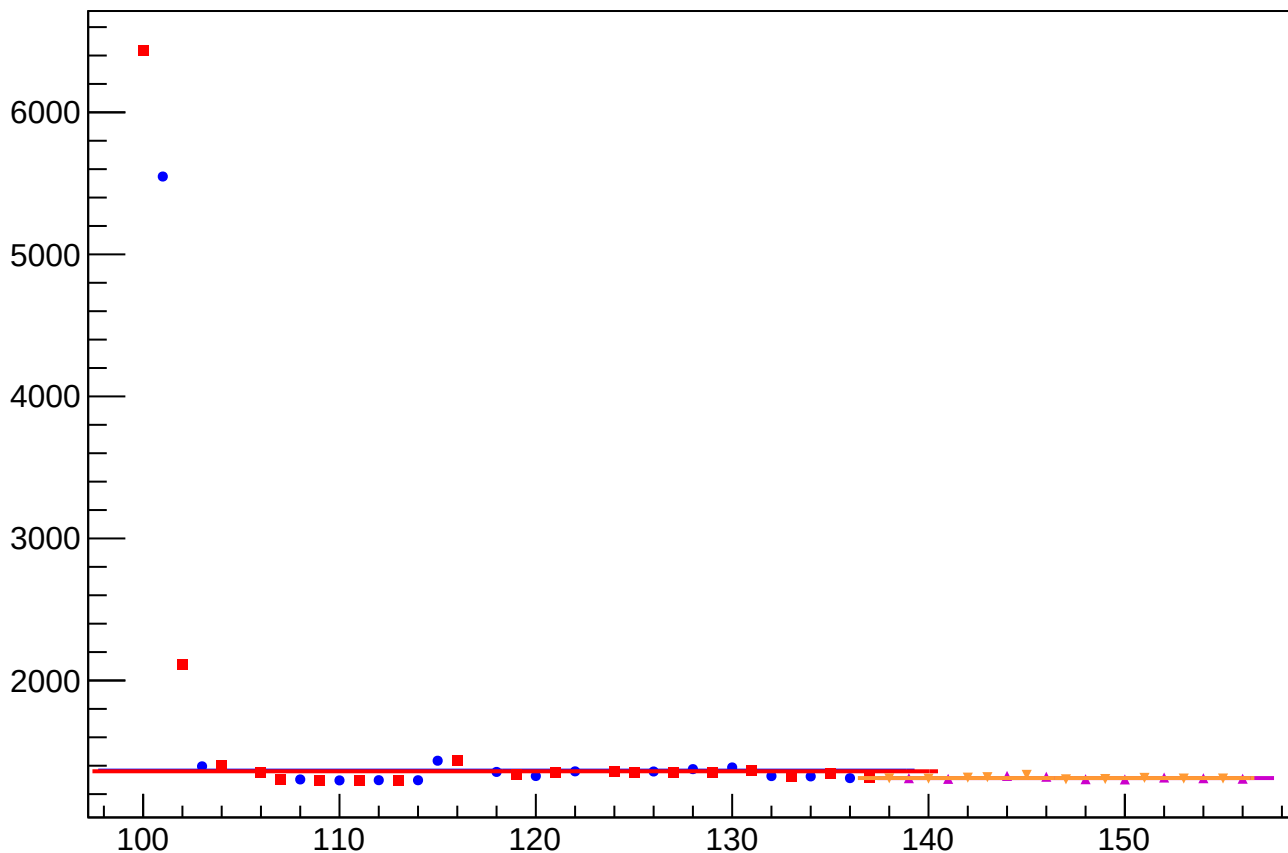
Right: 78.065 ± 363.747 $\chi^2/\text{NDF}: 32.1/34$

In: -119.991 ± 348.554 $\chi^2/\text{NDF}: 33.9/24$

Out: -295.511 ± 344.378 $\chi^2/\text{NDF}: 18.5/28$

All: -208.809 ± 244.975 $\chi^2/\text{NDF}: 52.5/53$

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: 1313.134 $\pm$ 0.331 χ^2 /NDF:661.2/9

Right Out: 1360.771 $\pm$ 0.359 χ^2 /NDF: 205315.3/18

Left In: 1312.958 $\pm$ 0.332 χ^2 /NDF:554.1/8

Left: 1313.046 $\pm$ 0.234 χ^2 /NDF: 1215.5/18

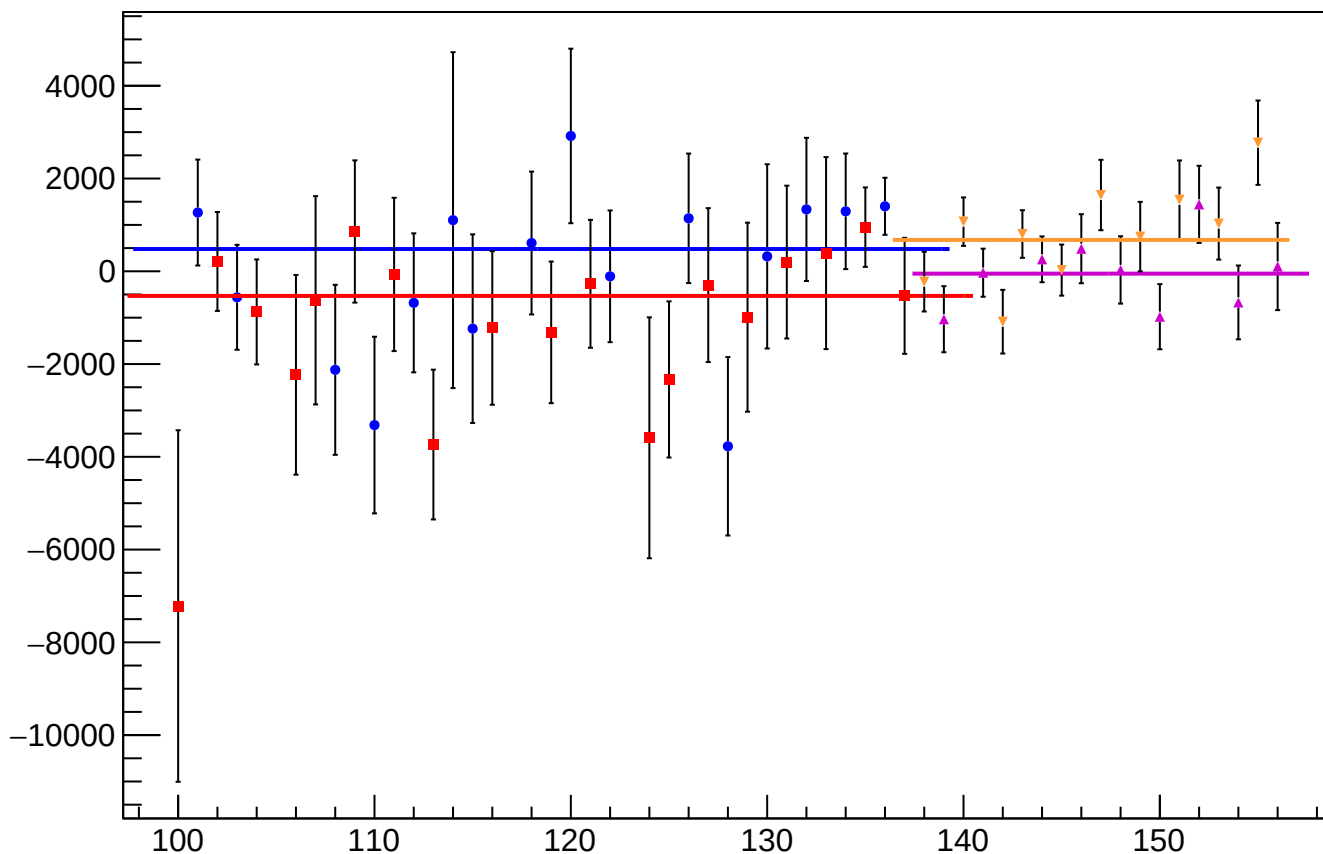
Right: 1362.978 $\pm$ 0.257 χ^2 /NDF: 964337.6/34

In: 1336.371 $\pm$ 0.246 χ^2 /NDF:770649.7/24

Out: 1335.032 $\pm$ 0.244 χ^2 /NDF:215481.4/28

All: 1335.694 $\pm$ 0.173 χ^2 /NDF: 986146.1/53

asym_usr_atr1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 480.403+/-336.520 χ^2/NDF : 18.6/15

Left Out: 676.137+/-208.164 χ^2/NDF : 18.8/9

Right Out: -530.532+/-346.105 χ^2/NDF : 15.6/18

Left In: -50.746+/-225.479 χ^2/NDF : 8.4/8

Left: 341.674+/-152.950 χ^2/NDF : 32.8/18

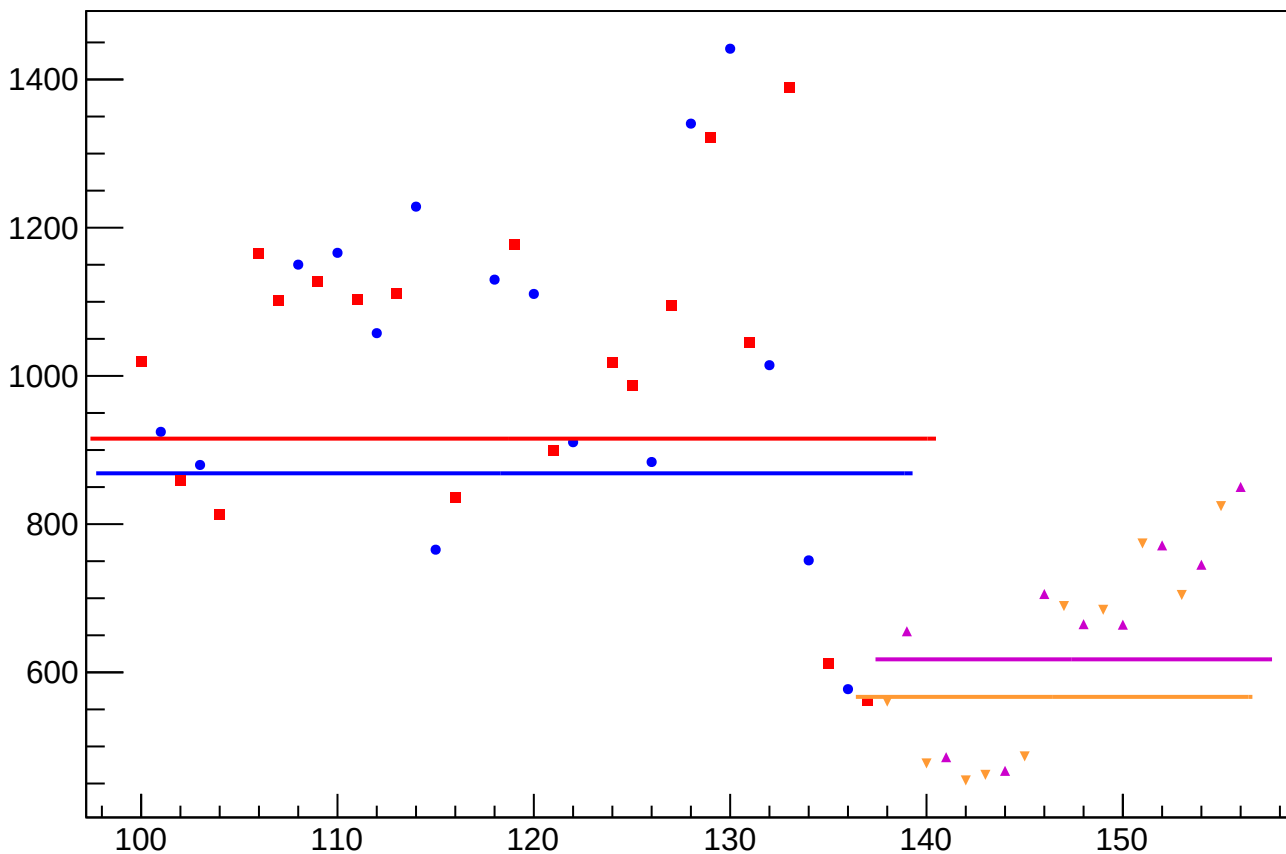
Right: -10.874+/-241.273 χ^2/NDF : 38.6/34

In: 113.826+/-187.319 χ^2/NDF : 28.8/24

Out: 355.591+/-178.385 χ^2/NDF : 43.3/28

All: 240.611+/-129.180 χ^2/NDF : 73.0/53

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: 566.912 $\pm$ 0.147 χ^2/NDF : 683312.4/9

Right Out: 915.360 $\pm$ 0.245 χ^2/NDF : 858906.6/18

Left In: 617.543 $\pm$ 0.159 χ^2/NDF : 608403.9/8

Left: 590.209 $\pm$ 0.108 χ^2/NDF : 1346158.8/18

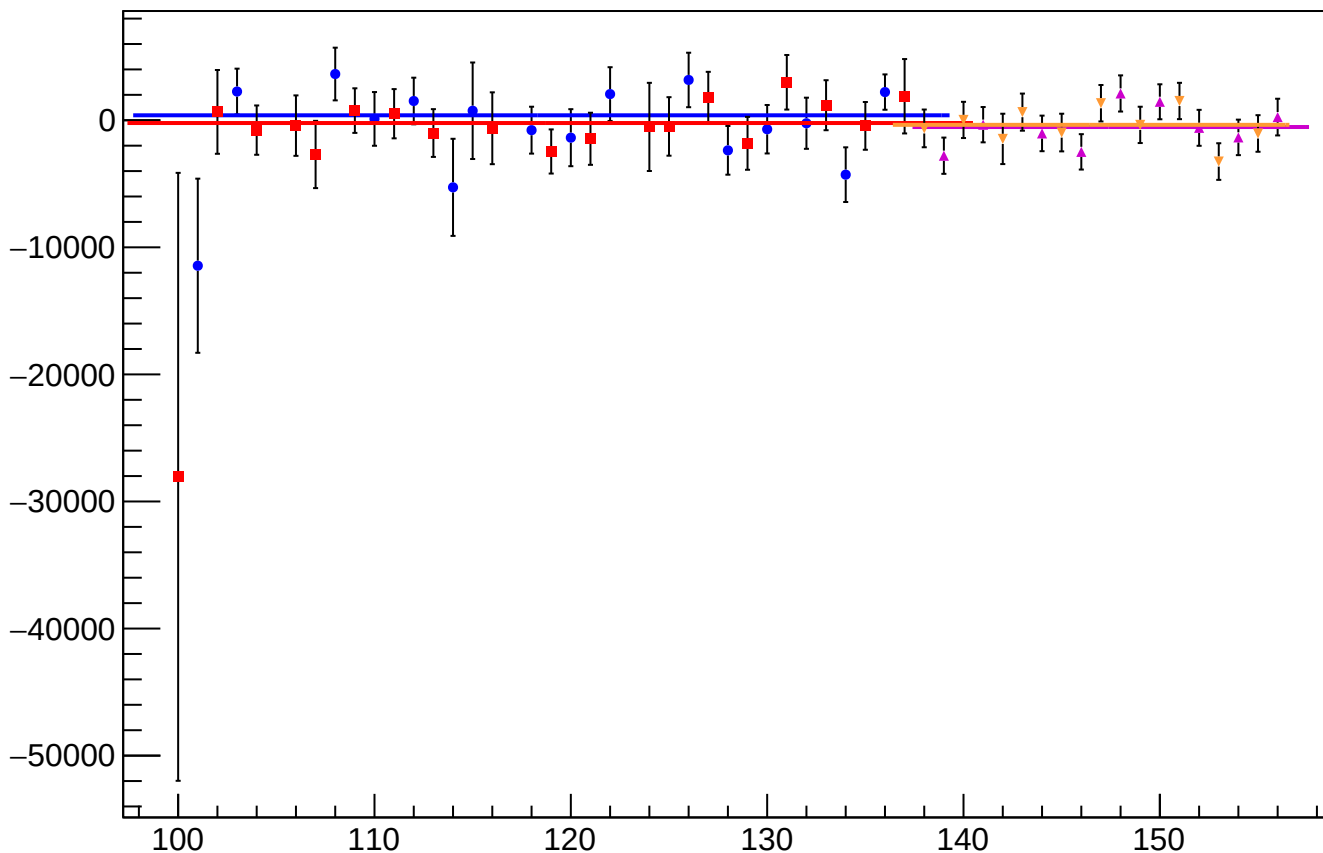
Right: 891.309 $\pm$ 0.171 χ^2/NDF : 1899033.0/34

In: 695.322 $\pm$ 0.132 χ^2/NDF : 2397816.3/24

Out: 659.475 $\pm$ 0.126 χ^2/NDF : 3030883.0/28

All: 676.524 $\pm$ 0.091 χ^2/NDF : 5467109.2/53

eigen_dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 389.949 ± 521.159 χ^2/NDF : 21.4/15

Left Out: -361.301 ± 468.505 χ^2/NDF : 8.4/9

Right Out: -218.182 ± 507.927 χ^2/NDF : 10.0/18

Left In: -532.686 ± 468.841 χ^2/NDF : 10.8/8

Left: -446.932 ± 331.402 χ^2/NDF : 19.3/18

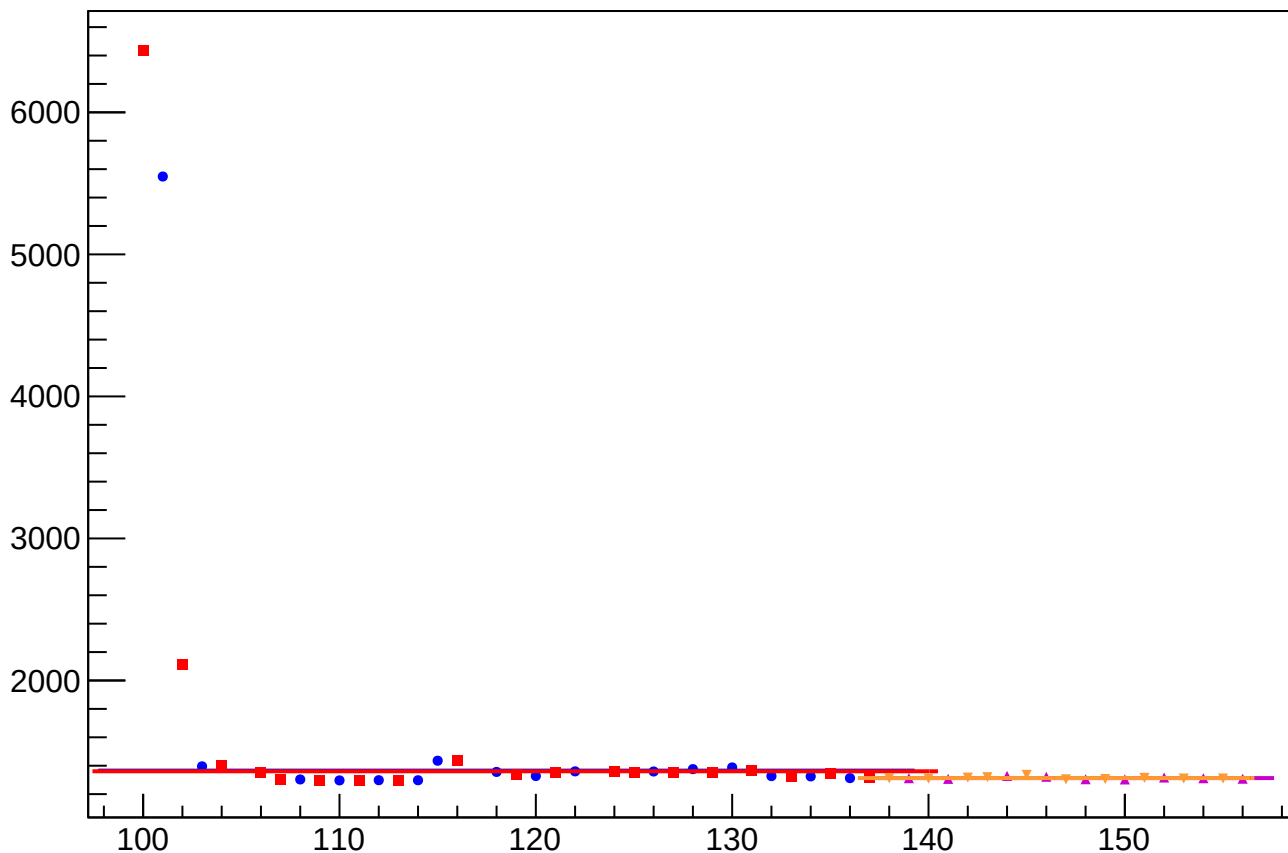
Right: 78.066 ± 363.747 χ^2/NDF : 32.1/34

In: -119.991 ± 348.554 χ^2/NDF : 33.9/24

Out: -295.510 ± 344.378 χ^2/NDF : 18.5/28

All: -208.808 ± 244.975 χ^2/NDF : 52.5/53

eigen_dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1365.302+/-0.369 χ^2/NDF : 758944.7/15

Left Out: 1313.134+/-0.331 χ^2/NDF : 661.2/9

Right Out: 1360.770+/-0.359 χ^2/NDF : 205315.2/18

Left In: 1312.958+/-0.332 χ^2/NDF : 554.1/8

Left: 1313.046+/-0.234 χ^2/NDF : 1215.5/18

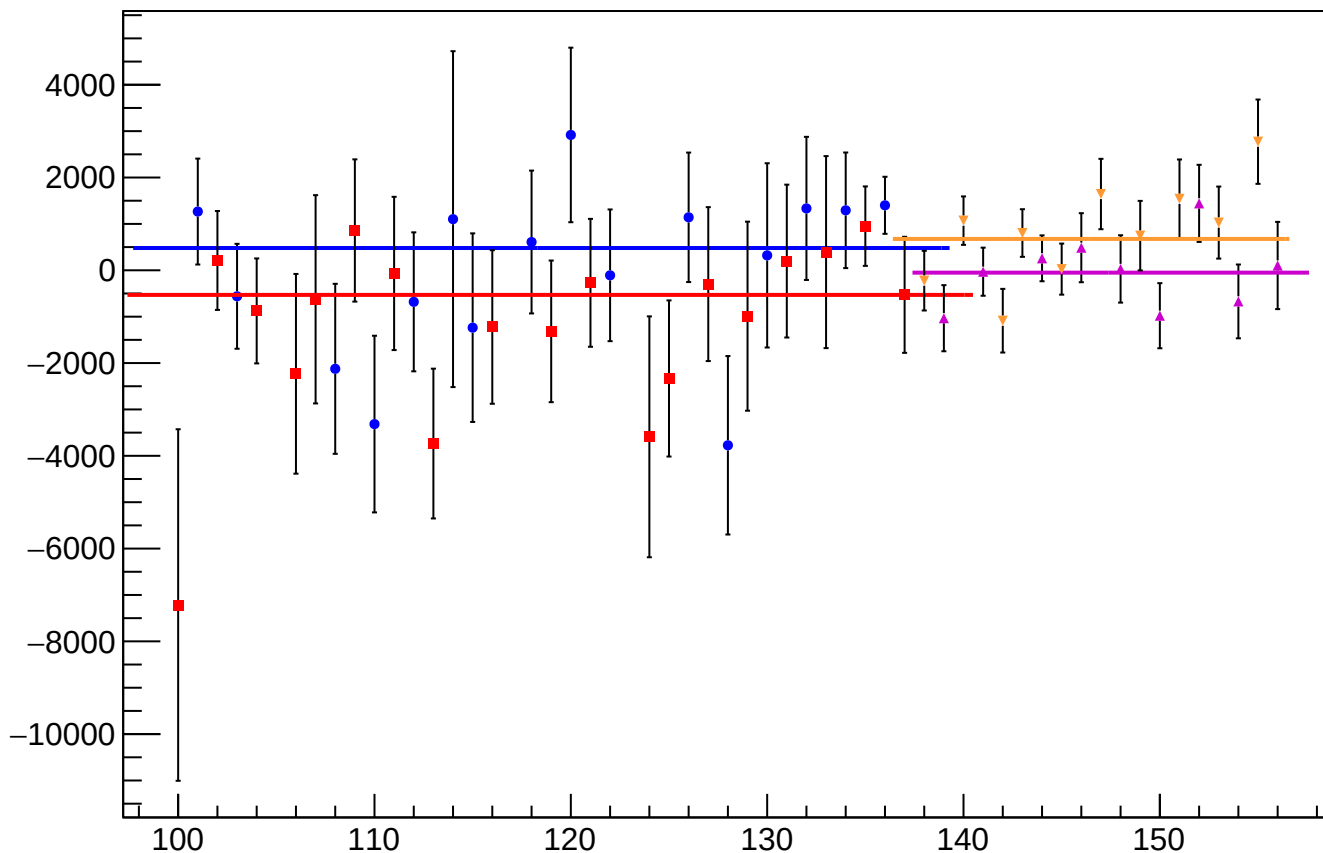
Right: 1362.978+/-0.257 χ^2/NDF : 964337.5/34

In: 1336.371+/-0.246 χ^2/NDF : 770649.7/24

Out: 1335.032+/-0.244 χ^2/NDF : 215481.3/28

All: 1335.694+/-0.173 χ^2/NDF : 986146.0/53

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: 676.137+/-208.164 χ^2/NDF : 18.8/9

Right Out: -530.531+/-346.104 χ^2/NDF : 15.6/18

Left In: -50.746+/-225.480 χ^2/NDF : 8.4/8

Left: 341.675+/-152.950 χ^2/NDF : 32.8/18

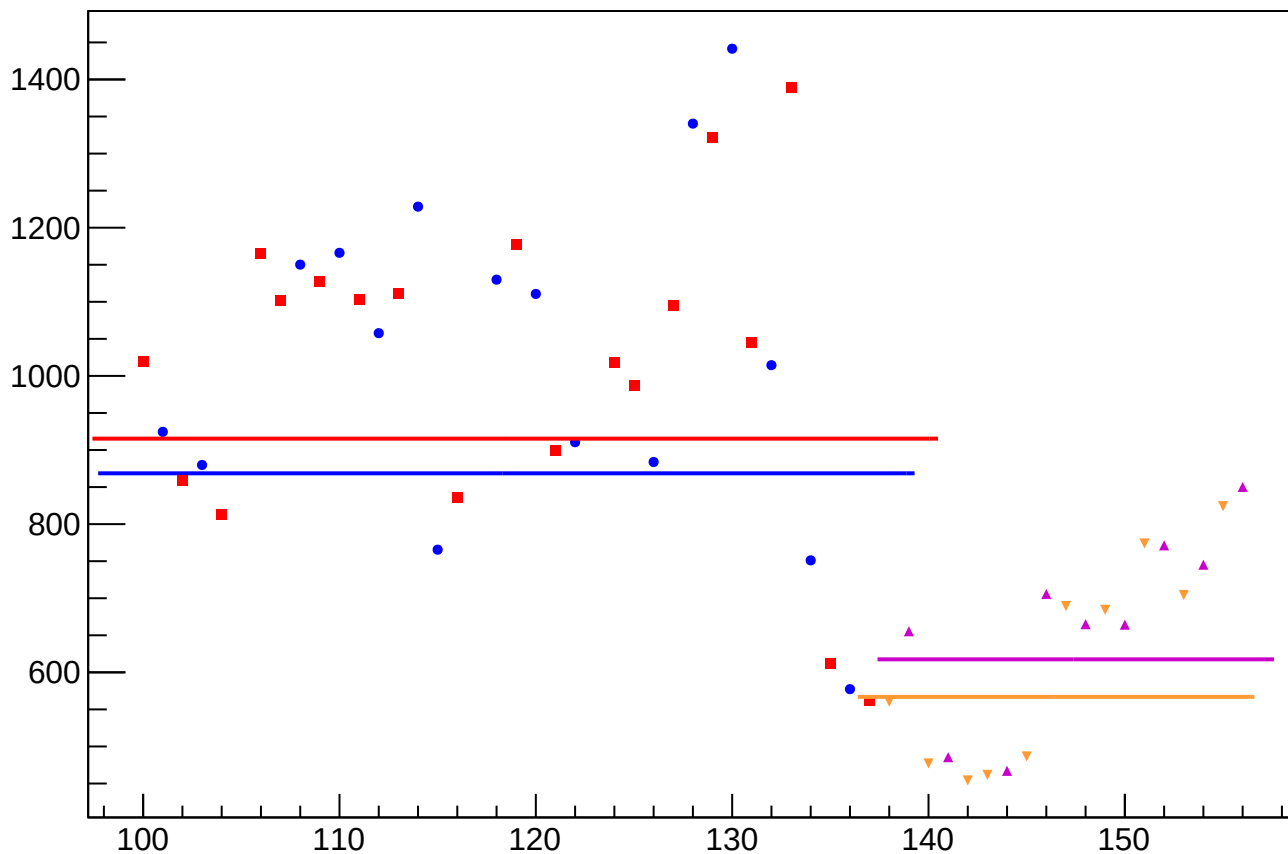
Right: -10.874+/-241.273 χ^2/NDF : 38.6/34

In: 113.826+/-187.319 χ^2/NDF : 28.8/24

Out: 355.591+/-178.385 χ^2/NDF : 43.3/28

All: 240.611+/-129.180 χ^2/NDF : 73.0/53

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: 566.912 $\pm$ 0.147 χ^2 /NDF: 683320.7/9

Right Out: 915.358 $\pm$ 0.245 χ^2 /NDF: 858906.3/18

Left In: 617.544 $\pm$ 0.159 χ^2 /NDF: 608409.3/8

Left: 590.209 $\pm$ 0.108 χ^2 /NDF: 1346174.5/18

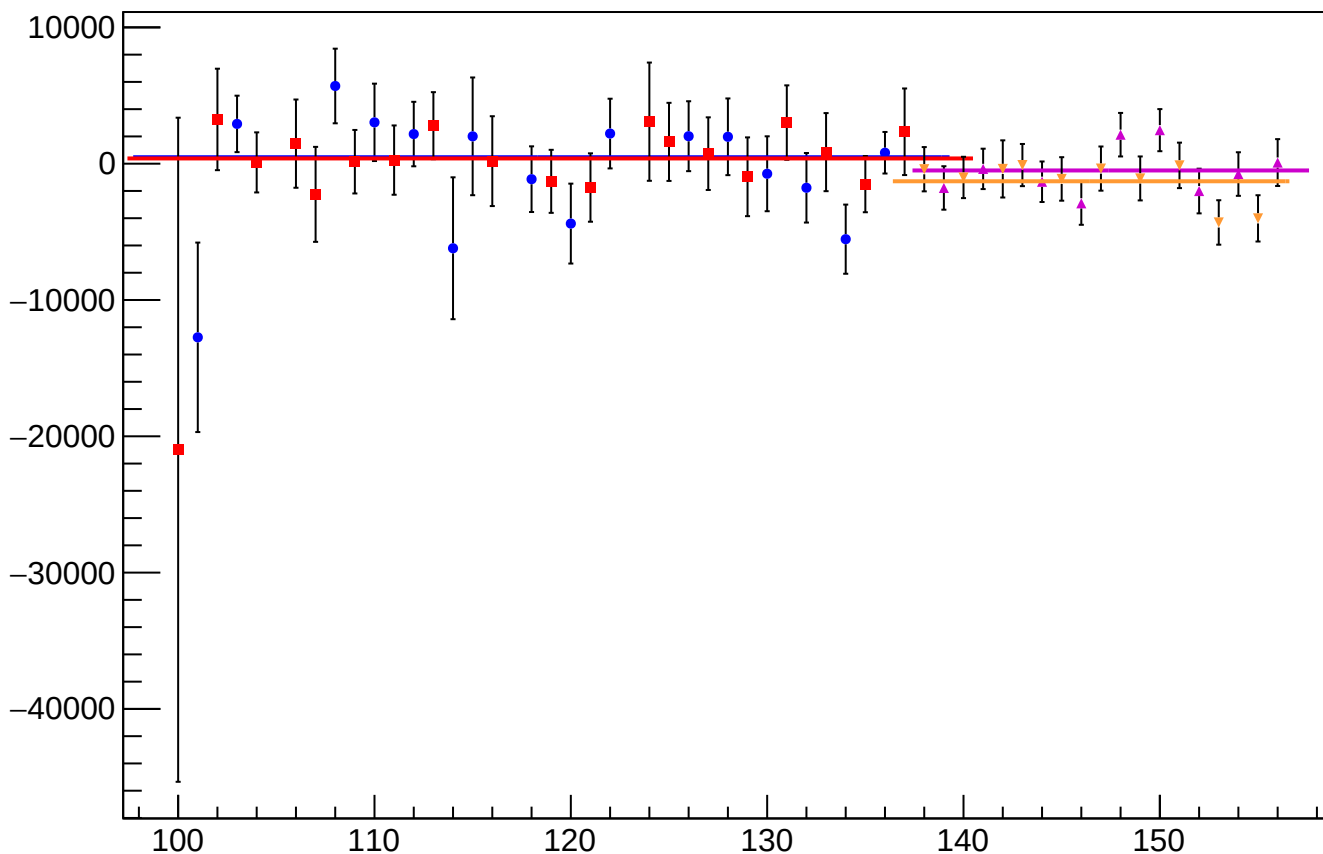
Right: 891.307 $\pm$ 0.171 χ^2 /NDF: 1899032.0/34

In: 695.323 $\pm$ 0.132 χ^2 /NDF: 2397803.7/24

Out: 659.475 $\pm$ 0.126 χ^2 /NDF: 3030882.0/28

All: 676.524 $\pm$ 0.091 χ^2 /NDF: 5467096.8/53

asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 473.494+/-649.243 χ^2/NDF : 22.7/15

Left Out: -1289.589+/-519.855 χ^2/NDF : 8.0/9

Right Out: 384.785+/-641.994 χ^2/NDF : 7.3/18

Left In: -496.311+/-525.732 χ^2/NDF : 10.7/8

Left: -897.409+/-369.653 χ^2/NDF : 19.8/18

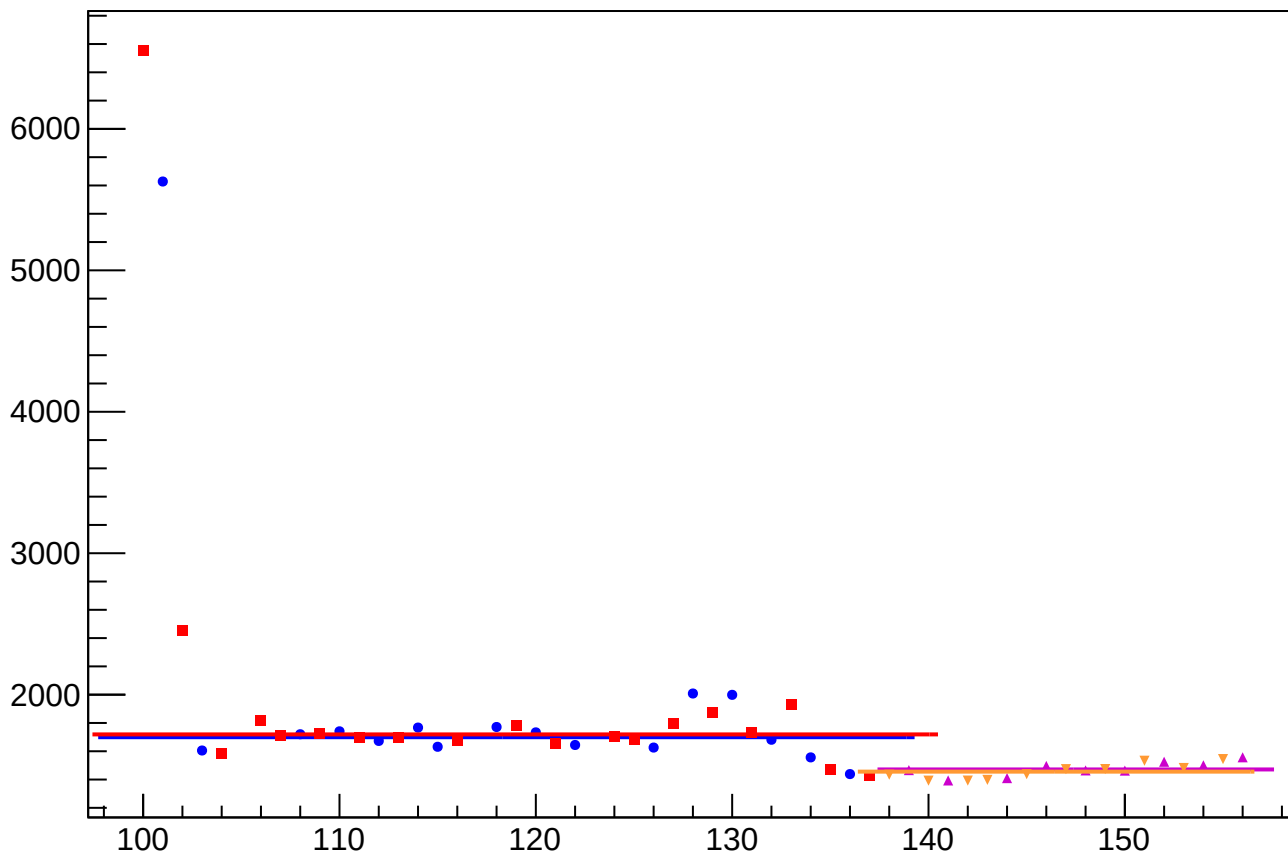
Right: 428.642+/-456.500 χ^2/NDF : 30.0/34

In: -112.238+/-408.575 χ^2/NDF : 34.7/24

Out: -626.496+/-404.010 χ^2/NDF : 19.3/28

All: -372.256+/-287.279 χ^2/NDF : 54.8/53

asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1699.330+/-0.459 χ^2/NDF : 762097.7/15

Left Out: 1455.929+/-0.368 χ^2/NDF :19509.2/9

Right Out: 1719.103+/-0.454 χ^2/NDF : 233751.6/18

Left In: 1471.341+/-0.372 χ^2/NDF :17390.2/8

Left: 1463.549+/-0.261 χ^2/NDF : 37768.5/18

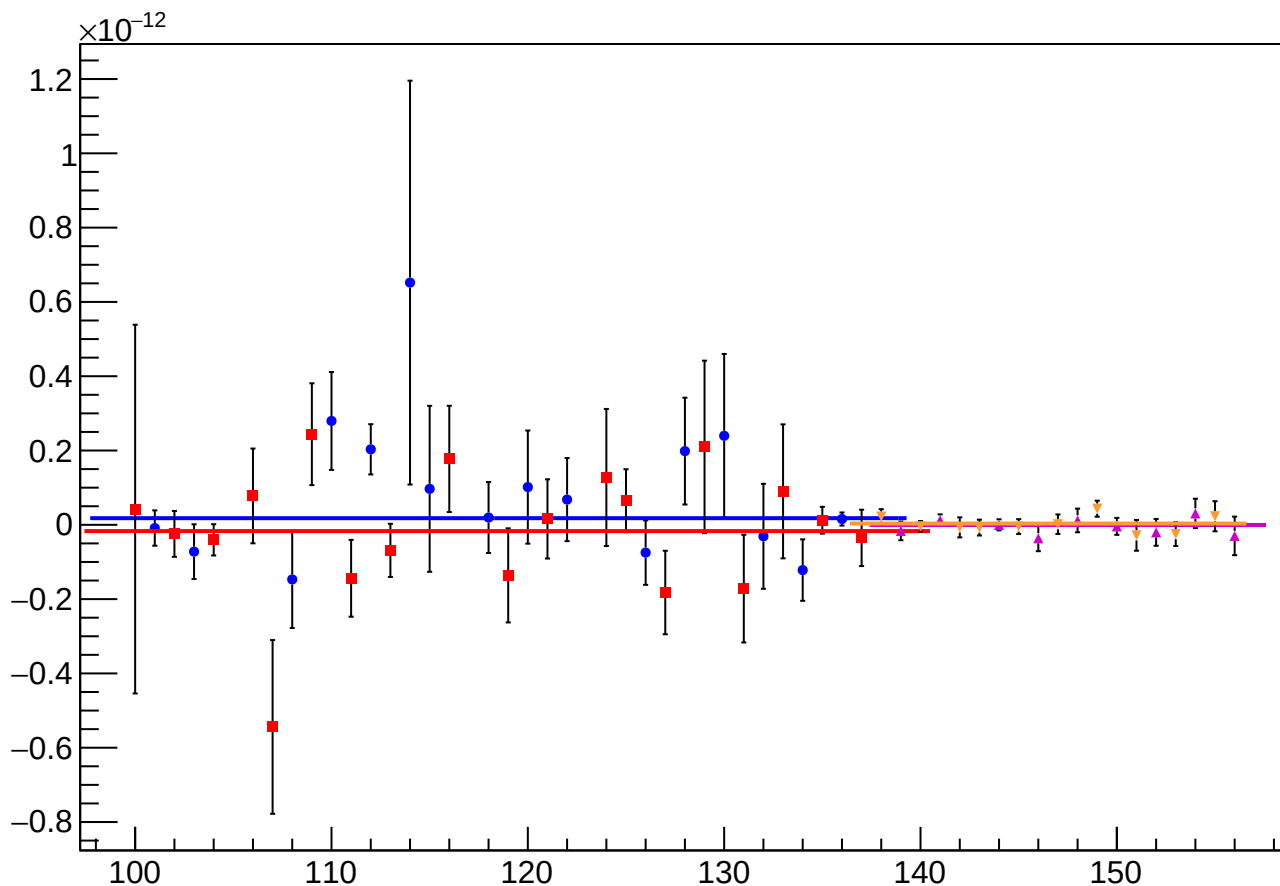
Right: 1709.327+/-0.323 χ^2/NDF : 996787.3/34

In: 1561.632+/-0.289 χ^2/NDF :928443.2/24

Out: 1560.153+/-0.286 χ^2/NDF :456249.6/28

All: 1560.884+/-0.203 χ^2/NDF : 1384706.0/53

asym_usr_atr1_dd_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 : 6.8/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.6/8

Left: 0.000+/-0.000 χ^2/NDF : 10.5/18

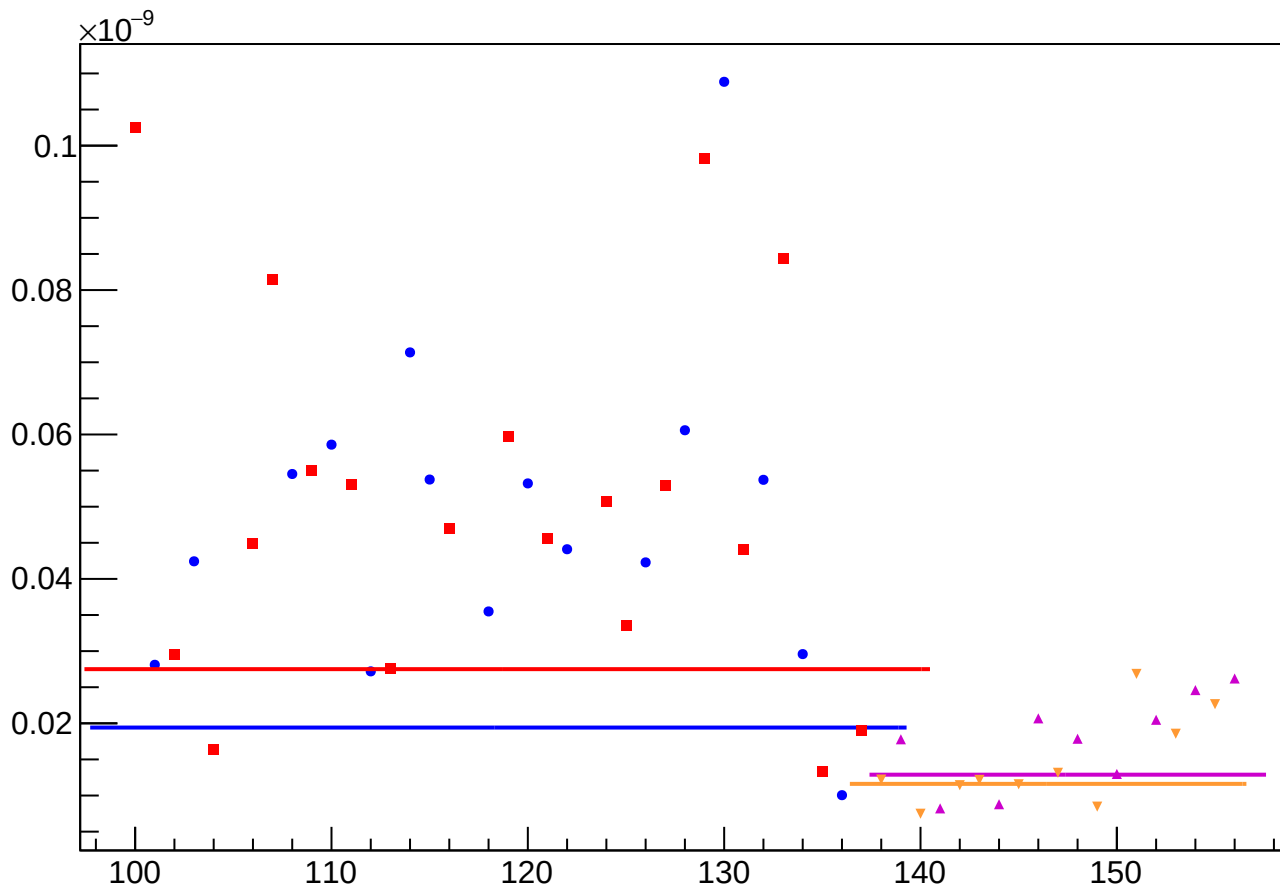
Right: 0.000+/-0.000 χ^2/NDF : 47.0/34

In: 0.000+/-0.000 χ^2/NDF : 28.4/24

Out: 0.000+/-0.000 χ^2/NDF : 29.1/28

All: 0.000+/-0.000 χ^2/NDF : 57.6/53

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 : 731524.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1650144.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 953029.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1712534.7/18

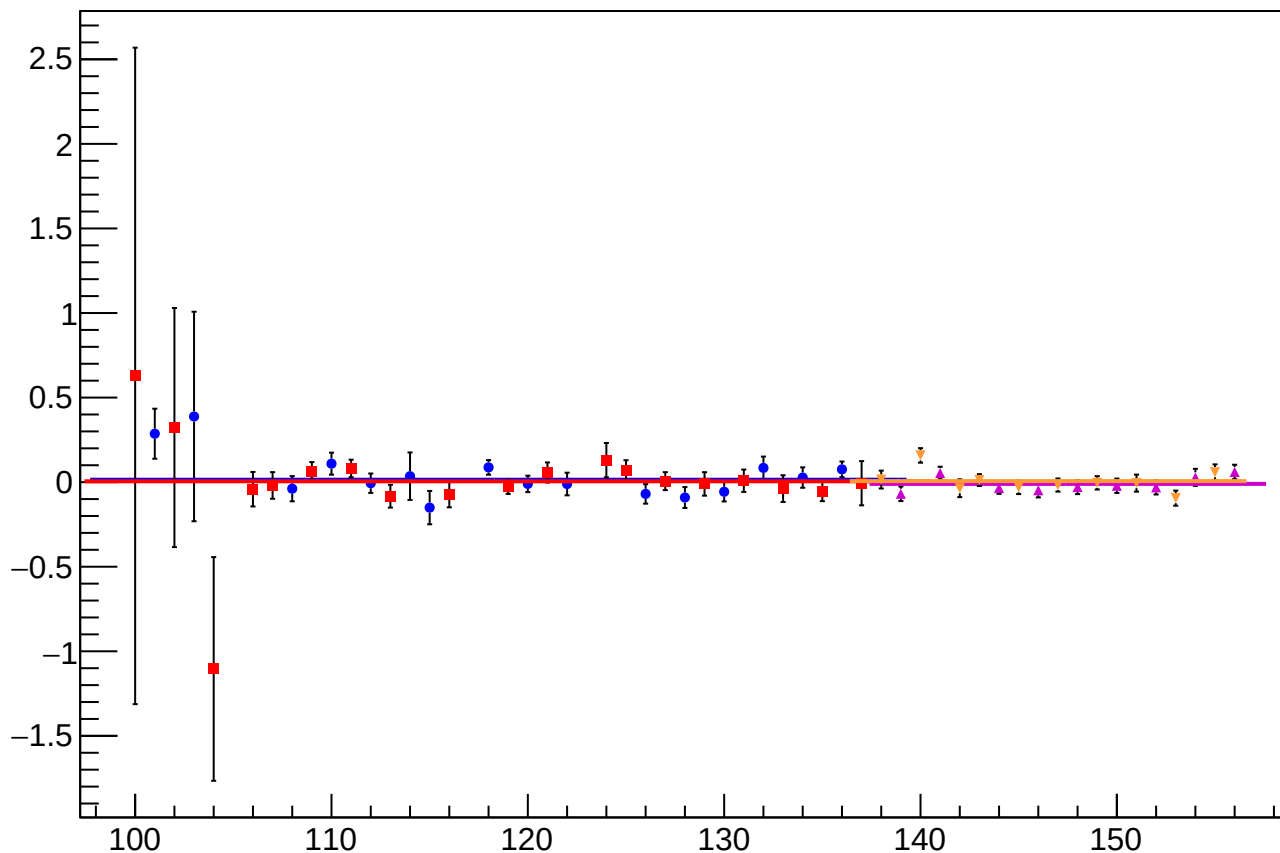
Right: 0.000+/-0.000 χ^2/NDF : 4153449.9/34

In: 0.000+/-0.000 χ^2/NDF : 3542921.8/24

Out: 0.000+/-0.000 χ^2/NDF : 3591736.1/28

All: 0.000+/-0.000 χ^2/NDF : 7149060.8/53

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: 0.006 $\pm$ 0.014 χ^2 /NDF:20.9/9

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.010 $\pm$ 0.014 χ^2 /NDF:10.0/8

Left: -0.002 $\pm$ 0.010 χ^2 /NDF: 31.6/18

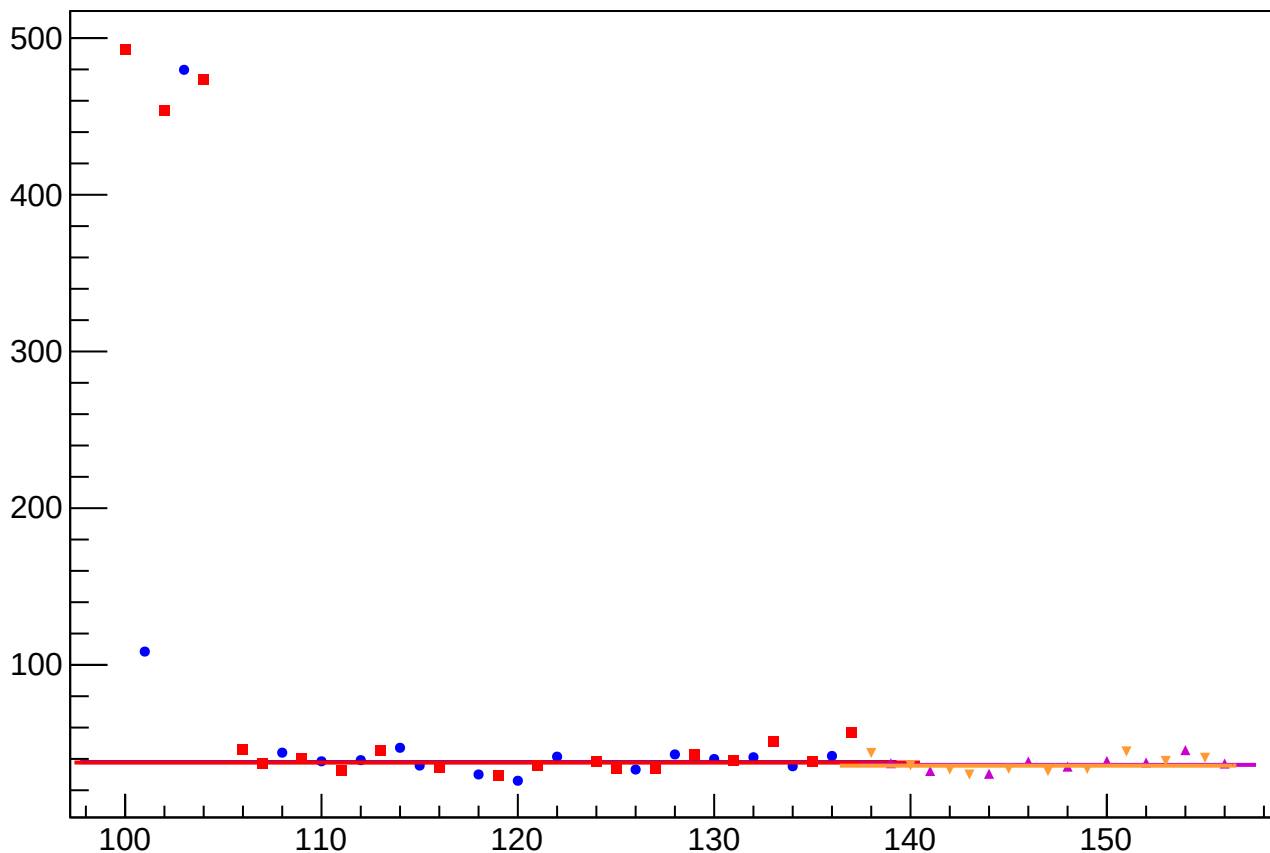
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.010 χ^2 /NDF:33.4/24

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:35.8/28

All: 0.003 $\pm$ 0.007 χ^2 /NDF: 69.3/53

asym_usr_atr1_dd_dit_vs_slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739669.4/15

Left Out: 35.675 $\pm$ 0.010 χ^2 /NDF: 229057.8/9

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 36.190 $\pm$ 0.010 χ^2 /NDF: 163923.7/8

Left: 35.930 $\pm$ 0.007 χ^2 /NDF: 394392.7/18

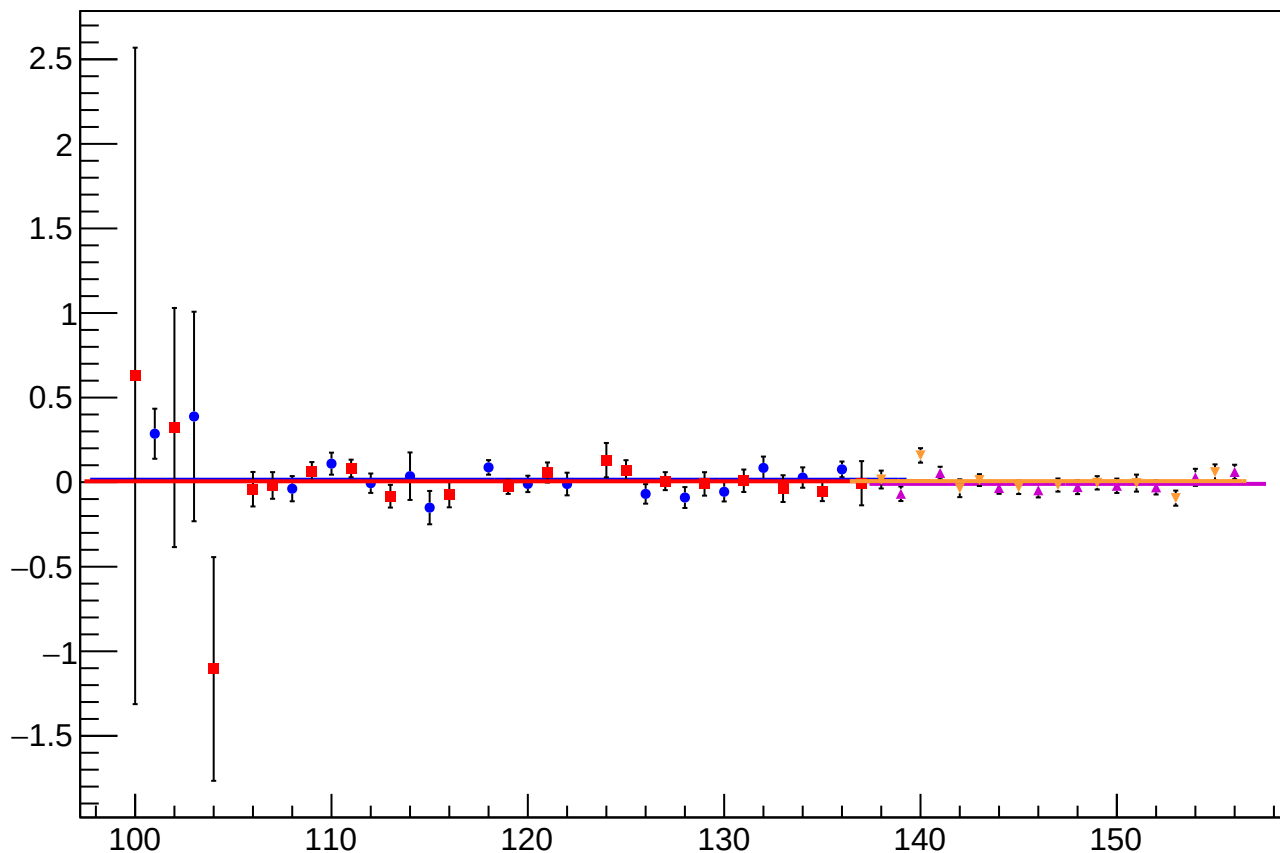
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 36.938 $\pm$ 0.007 χ^2 /NDF: 1917458.9/24

Out: 36.523 $\pm$ 0.007 χ^2 /NDF: 2192342.1/28

All: 36.730 $\pm$ 0.005 χ^2 /NDF: 4111392.4/53

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: 0.006 $\pm$ 0.014 χ^2 /NDF:20.9/9

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.010 $\pm$ 0.014 χ^2 /NDF:10.0/8

Left: -0.002 $\pm$ 0.010 χ^2 /NDF: 31.6/18

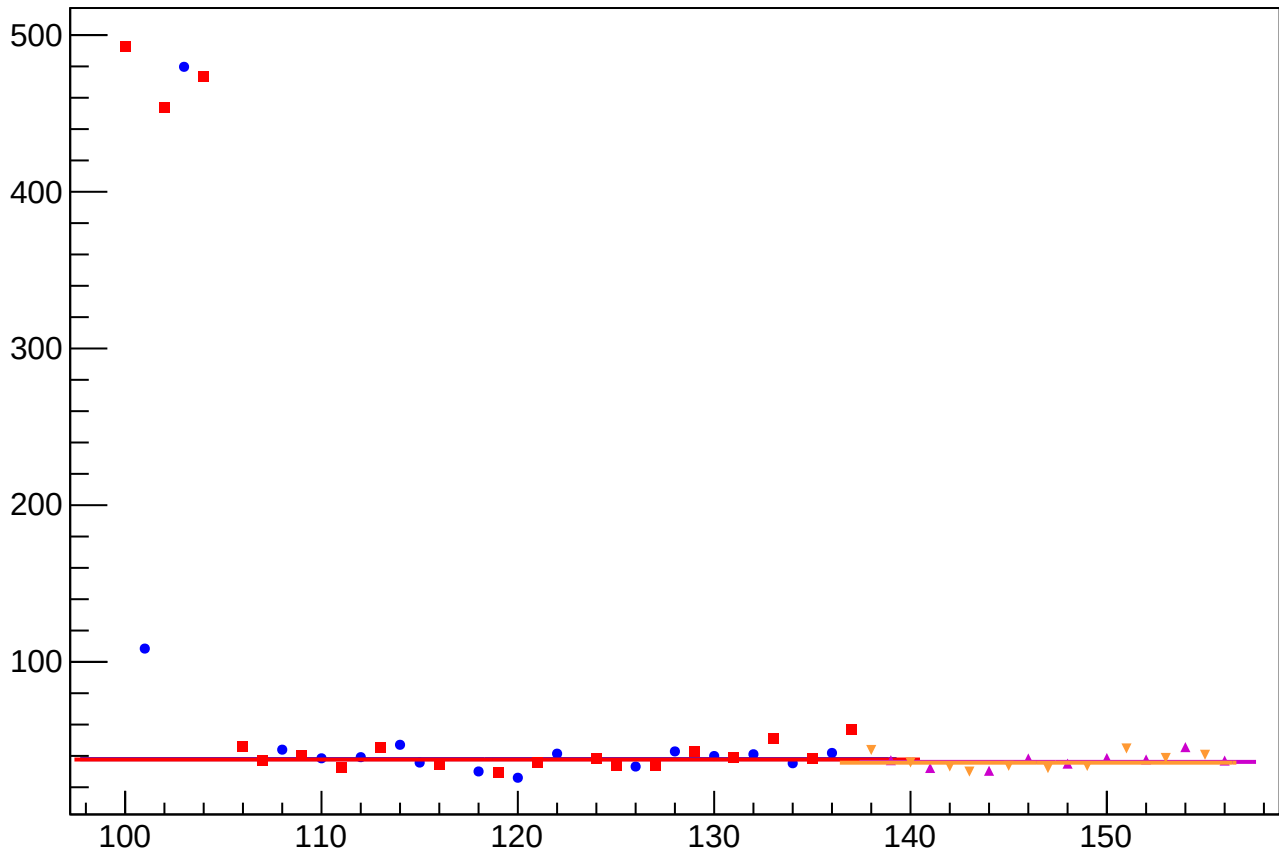
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.010 χ^2 /NDF:33.4/24

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:35.8/28

All: 0.003 $\pm$ 0.007 χ^2 /NDF: 69.3/53

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: 35.675 $\pm$ 0.010 χ^2 /NDF:229057.8/9

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 36.190 $\pm$ 0.010 χ^2 /NDF:163923.7/8

Left: 35.930 $\pm$ 0.007 χ^2 /NDF: 394392.7/18

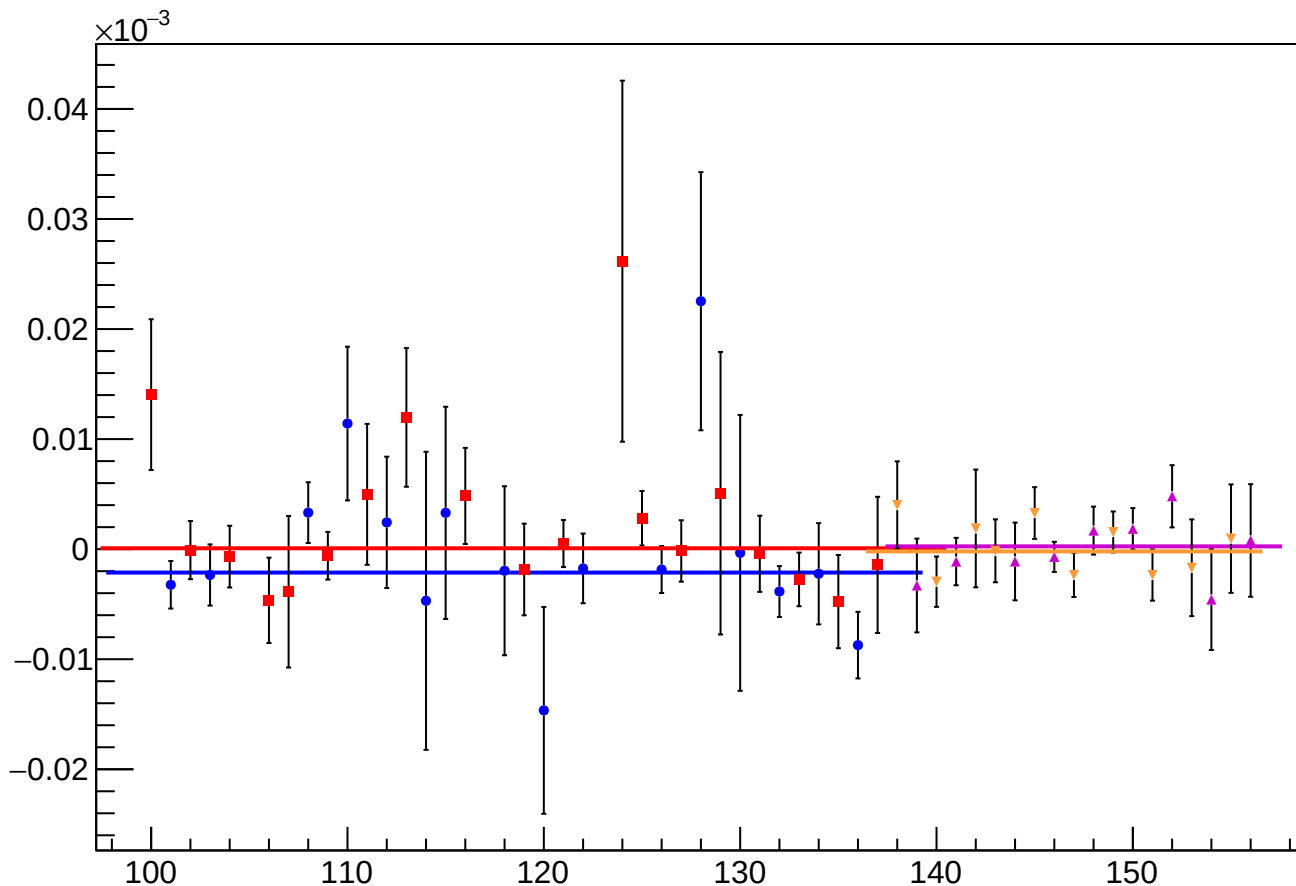
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 36.938 $\pm$ 0.007 χ^2 /NDF:1917458.9/24

Out: 36.523 $\pm$ 0.007 χ^2 /NDF:2192342.1/28

All: 36.730 $\pm$ 0.005 χ^2 /NDF: 4111392.4/53

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 : 8.0/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 18.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 6.6/8

Left: 0.000 ± 0.000 χ^2/NDF : 14.8/18

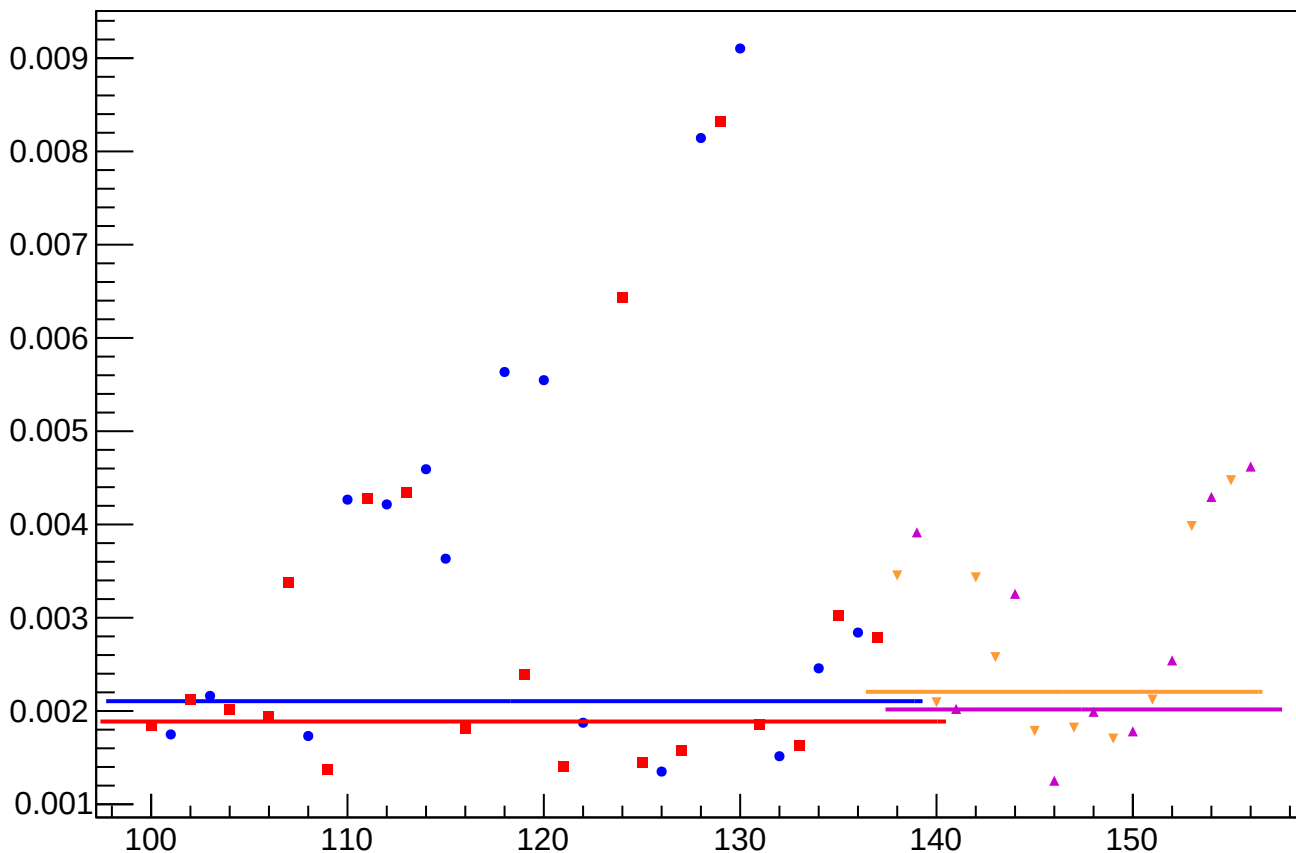
Right: -0.000 ± 0.000 χ^2/NDF : 42.2/34

In: -0.000 ± 0.000 χ^2/NDF : 31.0/24

Out: -0.000 ± 0.000 χ^2/NDF : 26.4/28

All: -0.000 ± 0.000 χ^2/NDF : 58.2/53

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: 0.002+/-0.000 χ^2/NDF :1377271.0/9

Right Out: 0.002+/-0.000 χ^2/NDF : 1892000.0/18

Left In: 0.002+/-0.000 χ^2/NDF :2380685.8/8

Left: 0.002+/-0.000 χ^2/NDF : 3811440.3/18

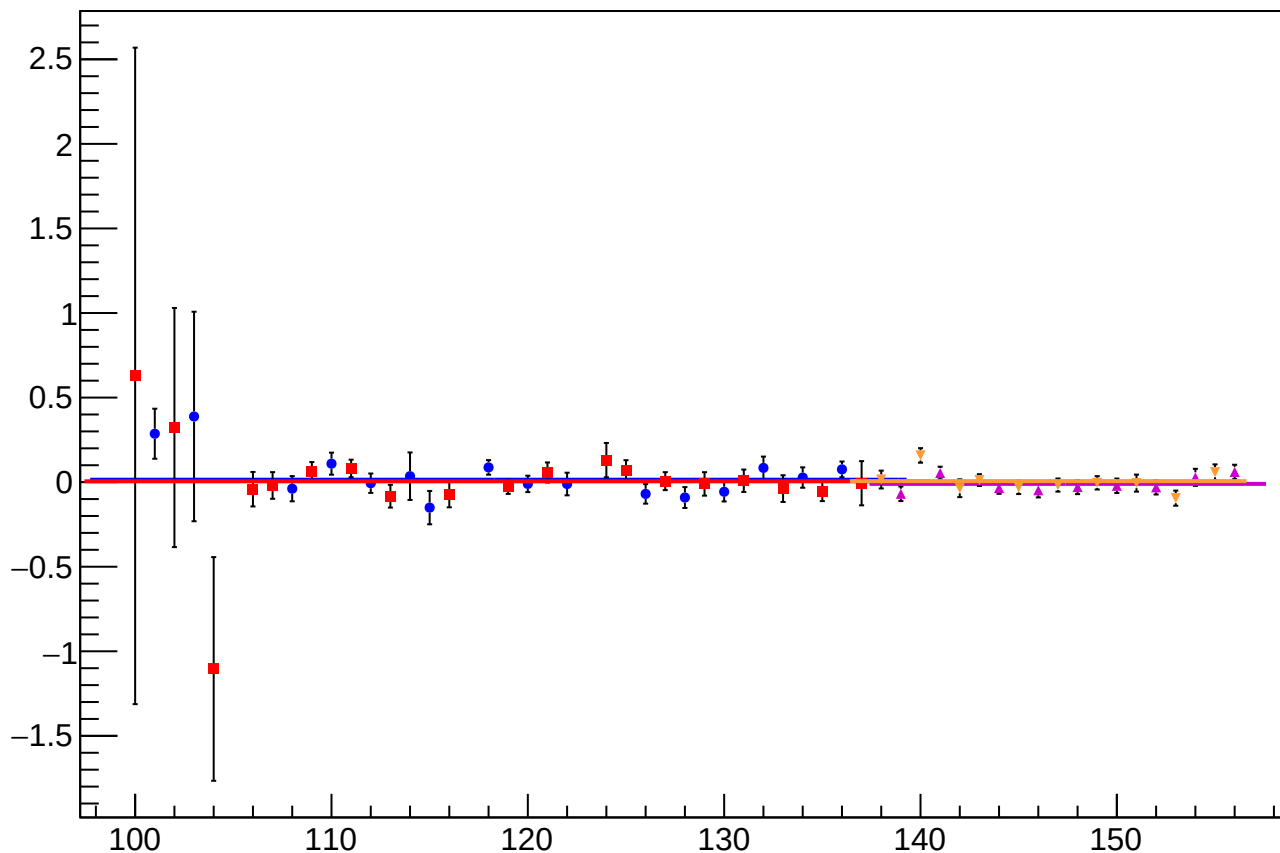
Right: 0.002+/-0.000 χ^2/NDF : 4976274.3/34

In: 0.002+/-0.000 χ^2/NDF :5409258.3/24

Out: 0.002+/-0.000 χ^2/NDF :3421539.5/28

All: 0.002+/-0.000 χ^2/NDF : 8831910.7/53

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: 0.006 $\pm$ 0.014 χ^2 /NDF:20.9/9

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.010 $\pm$ 0.014 χ^2 /NDF:10.0/8

Left: -0.002 $\pm$ 0.010 χ^2 /NDF: 31.6/18

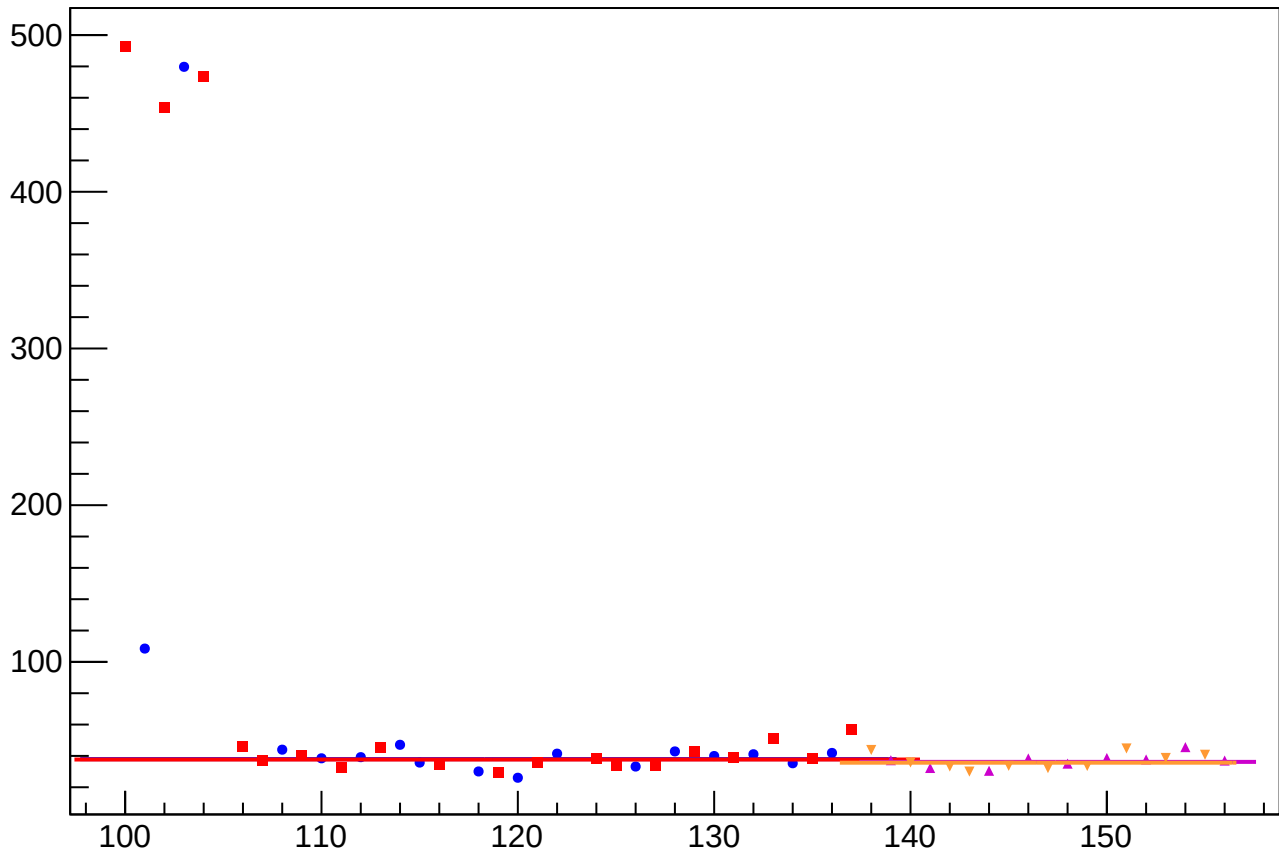
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.010 χ^2 /NDF:33.4/24

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:35.8/28

All: 0.003 $\pm$ 0.007 χ^2 /NDF: 69.3/53

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739681.1/15

Left Out: 35.675 $\pm$ 0.010 χ^2 /NDF: 229115.5/9

Right Out: 37.695 $\pm$ 0.011 χ^2 /NDF: 1944959.2/18

Left In: 36.189 $\pm$ 0.010 χ^2 /NDF: 163964.5/8

Left: 35.930 $\pm$ 0.007 χ^2 /NDF: 394490.8/18

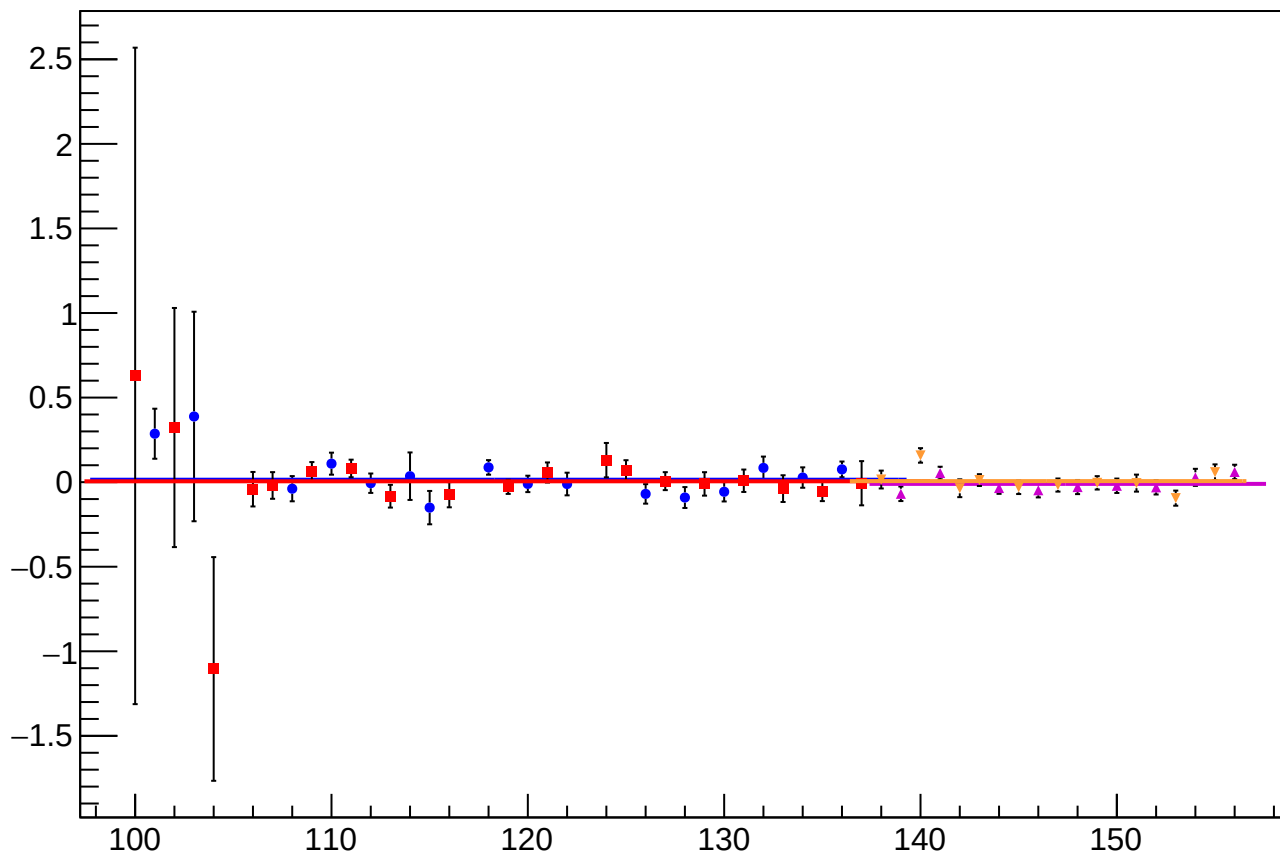
Right: 37.819 $\pm$ 0.008 χ^2 /NDF: 3684879.3/34

In: 36.938 $\pm$ 0.007 χ^2 /NDF: 1917506.5/24

Out: 36.523 $\pm$ 0.007 χ^2 /NDF: 2192458.0/28

All: 36.730 $\pm$ 0.005 χ^2 /NDF: 4111557.7/53

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: 0.006 $\pm$ 0.014 χ^2 /NDF:20.9/9

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.010 $\pm$ 0.014 χ^2 /NDF:10.0/8

Left: -0.002 $\pm$ 0.010 χ^2 /NDF: 31.6/18

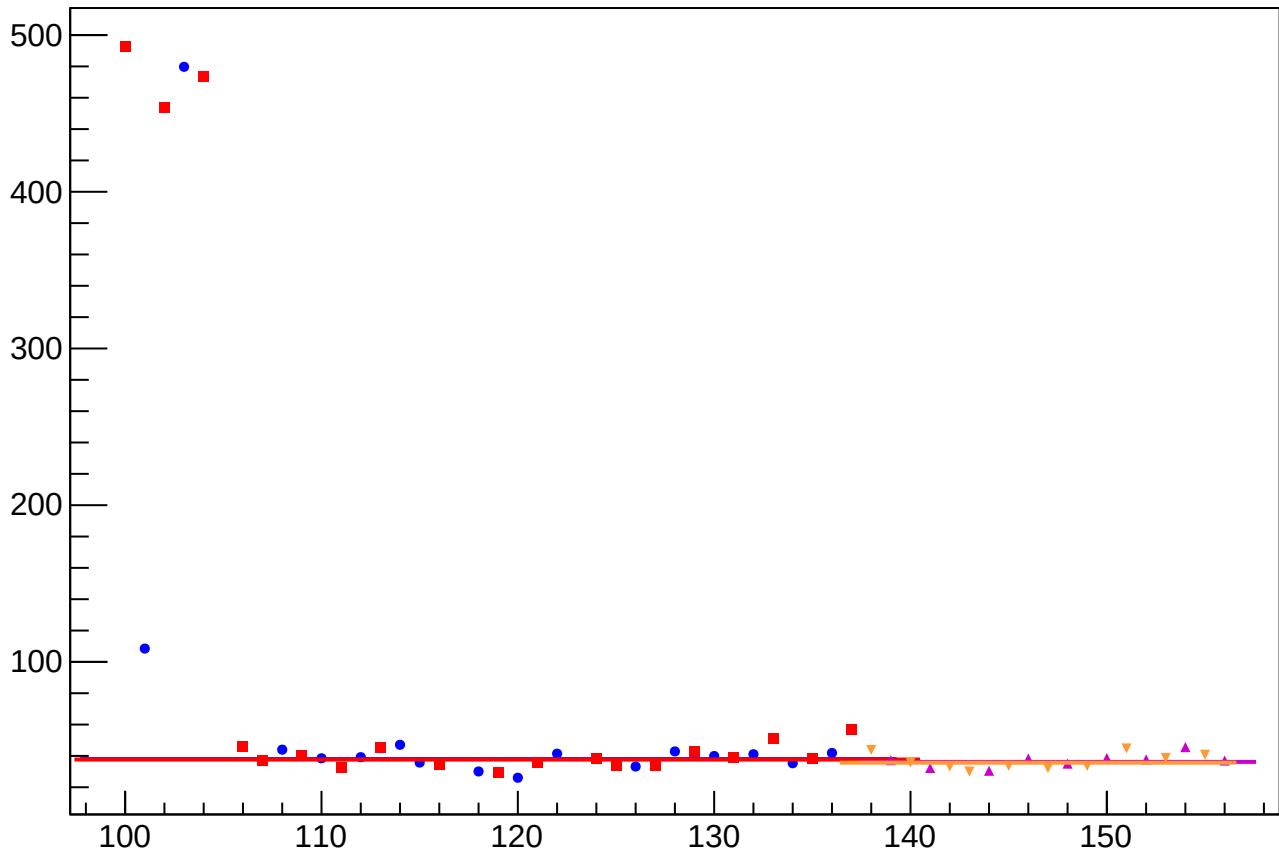
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.010 χ^2 /NDF:33.4/24

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:35.8/28

All: 0.003 $\pm$ 0.007 χ^2 /NDF: 69.3/53

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: 35.675 $\pm$ 0.010 χ^2 /NDF: 229115.5/9

Right Out: 37.695 $\pm$ 0.011 χ^2 /NDF: 1944959.2/18

Left In: 36.189 $\pm$ 0.010 χ^2 /NDF: 163964.5/8

Left: 35.930 $\pm$ 0.007 χ^2 /NDF: 394490.8/18

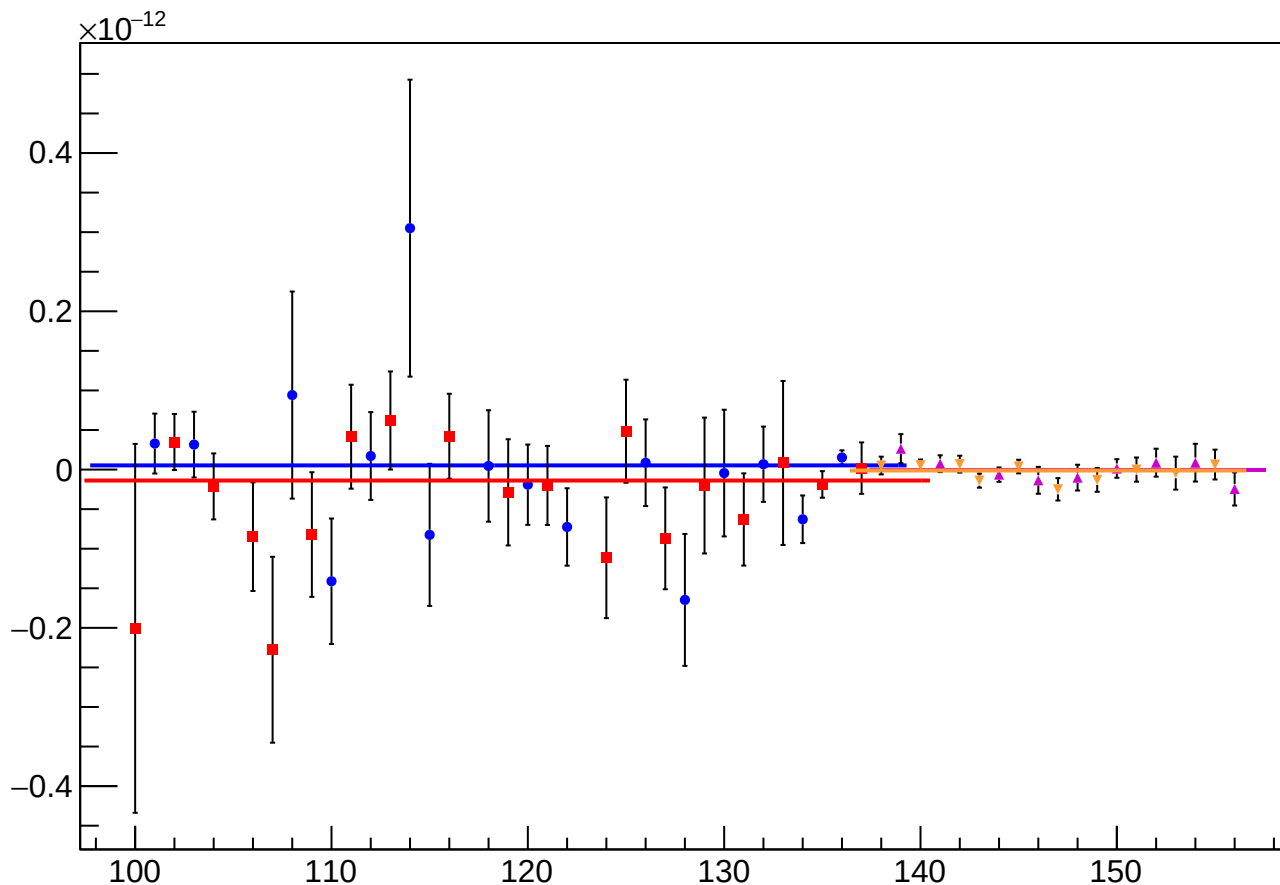
Right: 37.819 $\pm$ 0.008 χ^2 /NDF: 3684879.3/34

In: 36.938 $\pm$ 0.007 χ^2 /NDF: 1917506.5/24

Out: 36.523 $\pm$ 0.007 χ^2 /NDF: 2192458.0/28

All: 36.730 $\pm$ 0.005 χ^2 /NDF: 4111557.7/53

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 : 7.8/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.0/18

Left In: -0.000 ± 0.000 χ^2/NDF : 5.8/8

Left: -0.000 ± 0.000 χ^2/NDF : 13.6/18

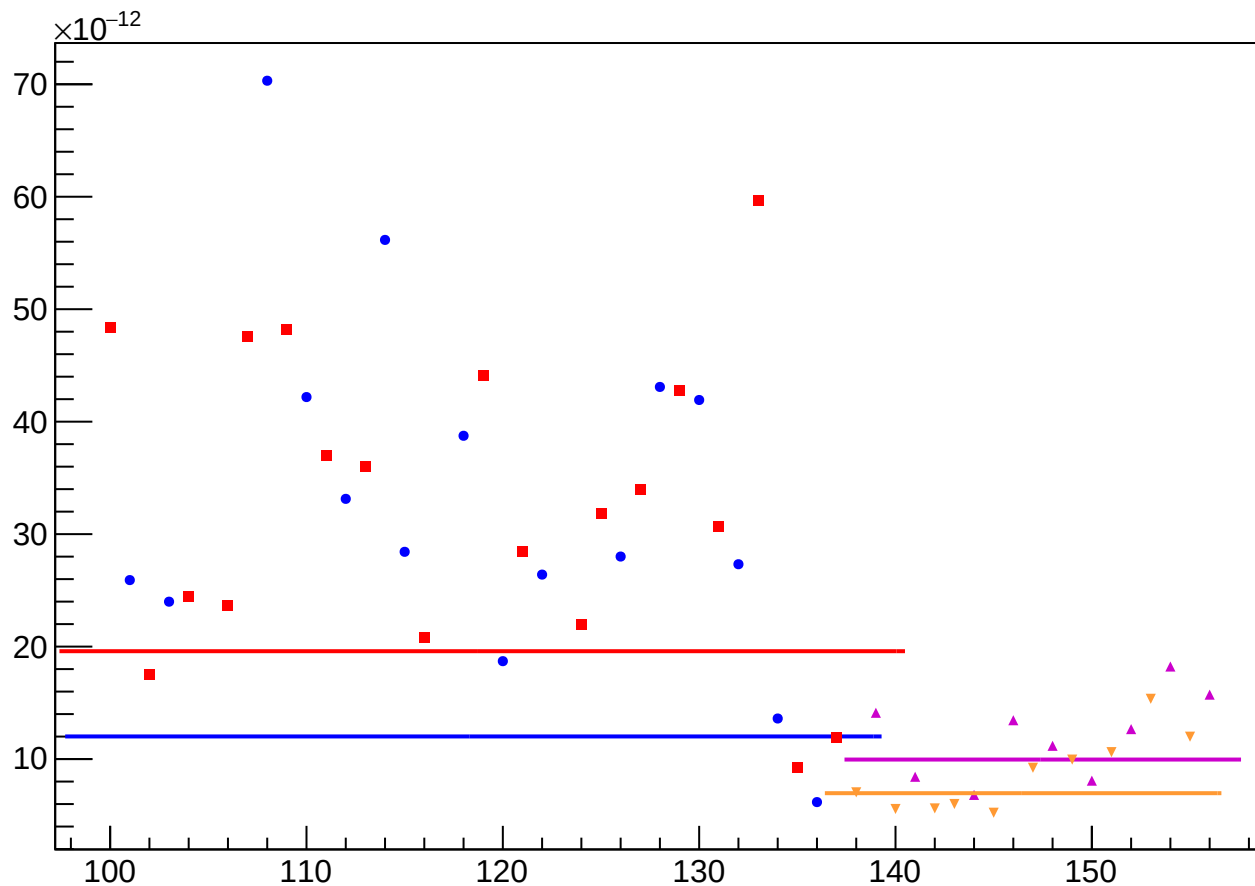
Right: -0.000 ± 0.000 χ^2/NDF : 39.8/34

In: 0.000 ± 0.000 χ^2/NDF : 27.9/24

Out: -0.000 ± 0.000 χ^2/NDF : 25.0/28

All: -0.000 ± 0.000 χ^2/NDF : 53.4/53

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 : 923066.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2619469.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 970496.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2415226.6/18

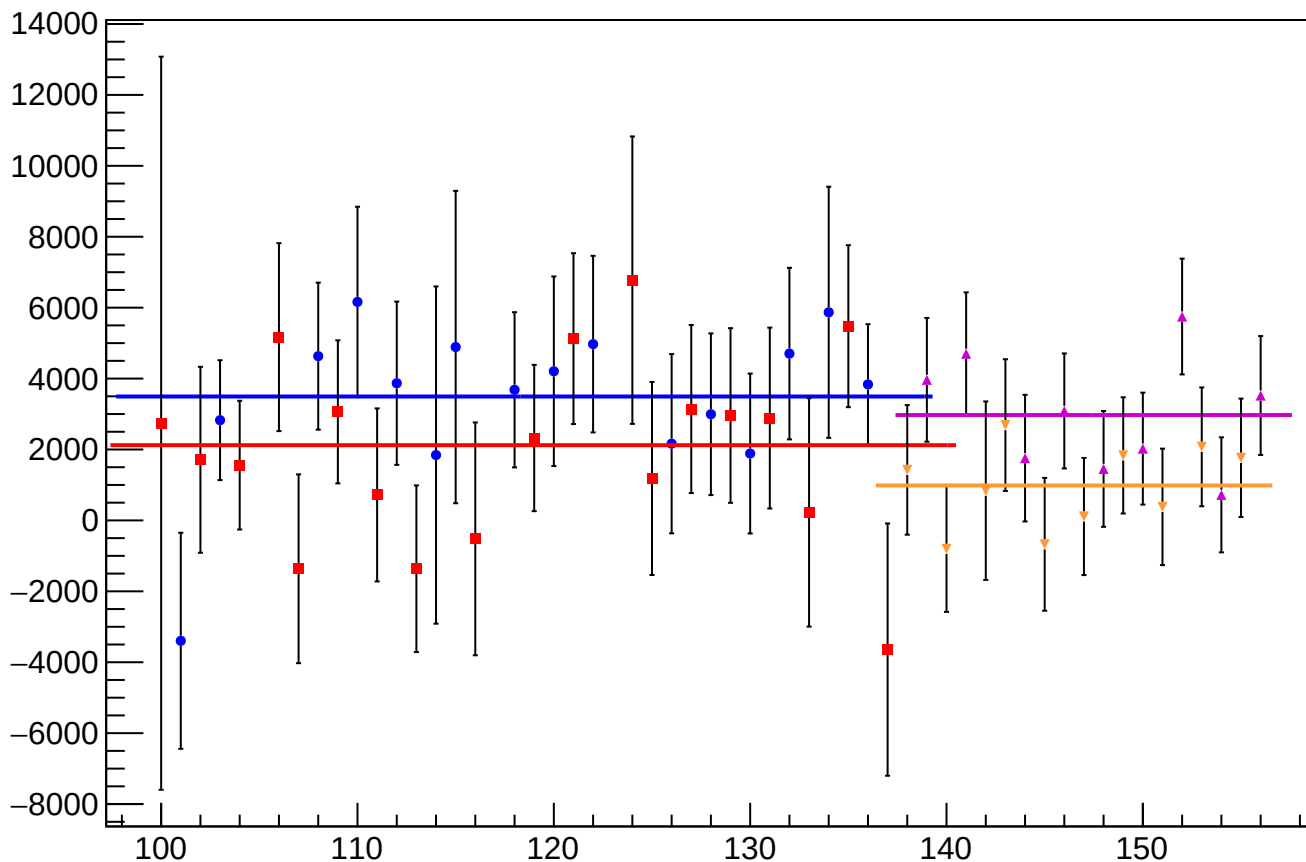
Right: 0.000+/-0.000 χ^2/NDF : 7170019.9/34

In: 0.000+/-0.000 χ^2/NDF : 4946540.9/24

Out: 0.000+/-0.000 χ^2/NDF : 6115357.8/28

All: 0.000+/-0.000 χ^2/NDF : 11452922.8/53

reg_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.380 $\pm$ 601.185 χ^2 /NDF: 8.8/15

Left Out: 985.793 $\pm$ 561.371 χ^2 /NDF:4.0/9

Right Out: 2121.717 $\pm$ 587.617 χ^2 /NDF: 15.1/18

Left In: 2971.385 $\pm$ 555.336 χ^2 /NDF:7.9/8

Left: 1989.320 $\pm$ 394.798 χ^2 /NDF: 18.3/18

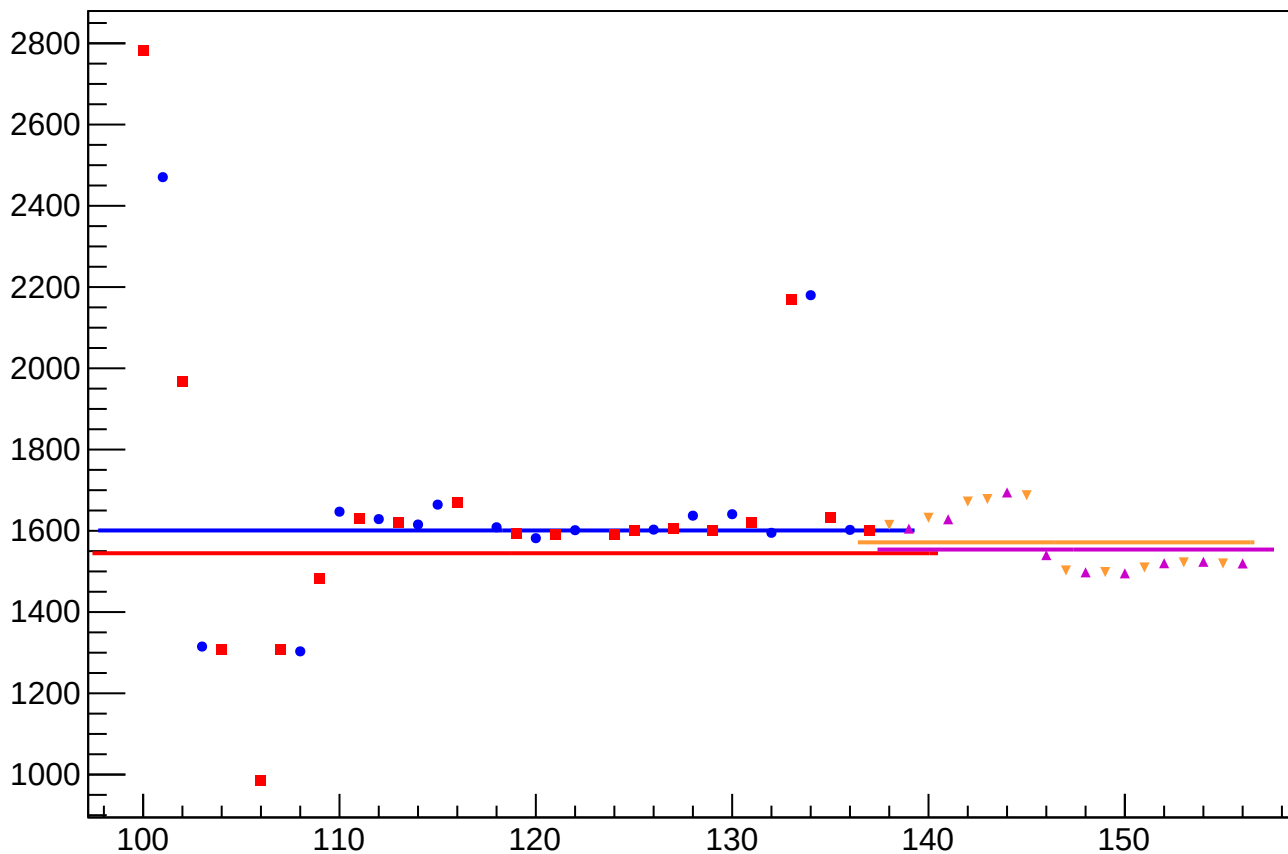
Right: 2792.384 $\pm$ 420.223 χ^2 /NDF: 26.6/34

In: 3212.181 $\pm$ 407.929 χ^2 /NDF:17.2/24

Out: 1527.822 $\pm$ 405.911 χ^2 /NDF:21.1/28

All: 2365.825 $\pm$ 287.733 χ^2 /NDF: 46.8/53

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: 1571.596 $\pm$ 0.397 χ^2 /NDF: 34844.7/9

Right Out: 1544.809 $\pm$ 0.409 χ^2 /NDF: 376127.4/18

Left In: 1553.892 $\pm$ 0.393 χ^2 /NDF: 25474.1/8

Left: 1562.648 $\pm$ 0.279 χ^2 /NDF: 61324.1/18

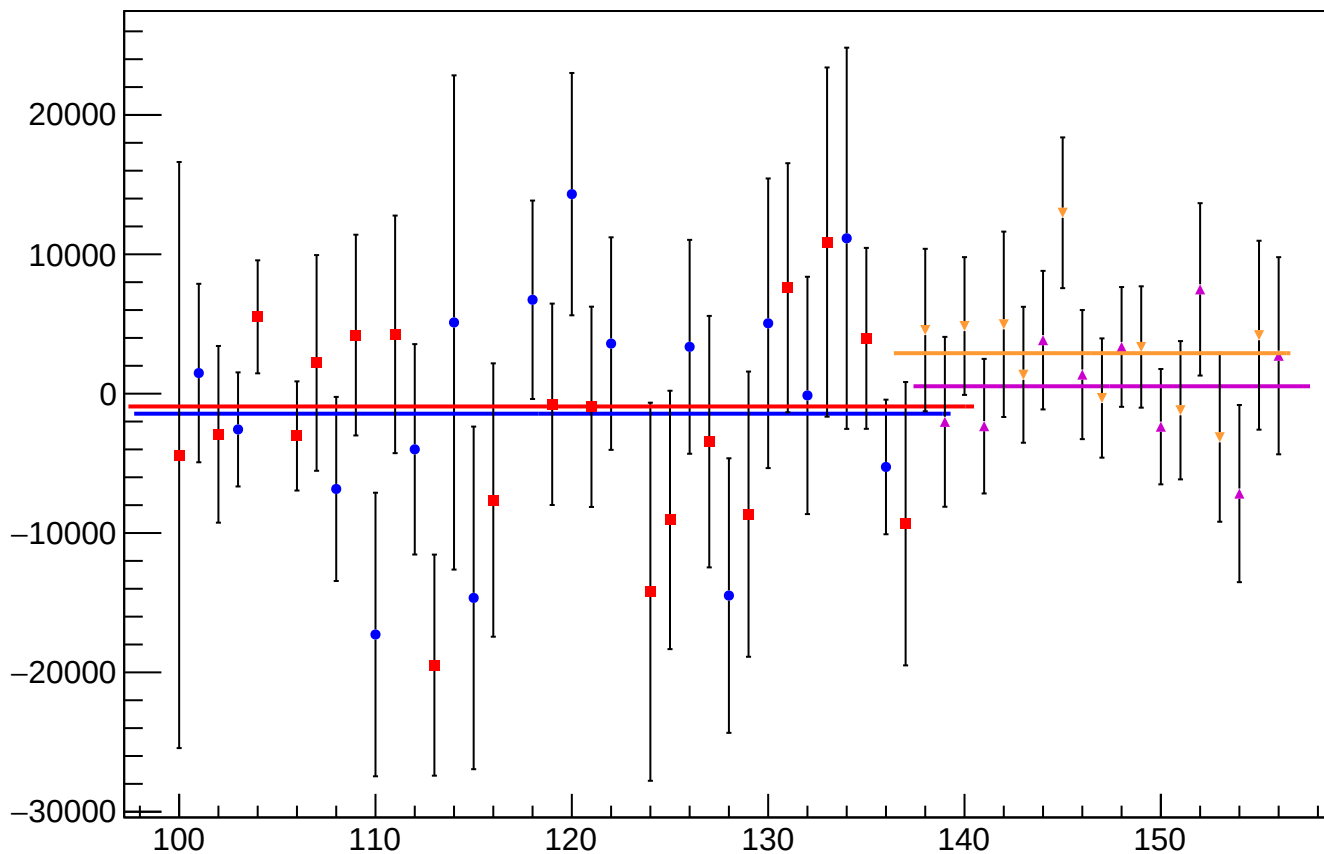
Right: 1571.734 $\pm$ 0.295 χ^2 /NDF: 702584.8/34

In: 1575.526 $\pm$ 0.288 χ^2 /NDF: 349480.5/24

Out: 1558.589 $\pm$ 0.285 χ^2 /NDF: 413183.3/28

All: 1566.947 $\pm$ 0.203 χ^2 /NDF: 764410.0/53

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: 2904.799 $\pm$ 1652.604 χ^2 /NDF:6.2/9

Right Out: -918.485 $\pm$ 1669.278 χ^2 /NDF: 15.3/18

Left In: 531.357 $\pm$ 1714.284 χ^2 /NDF:4.8/8

Left: 1761.544 $\pm$ 1189.775 χ^2 /NDF: 11.9/18

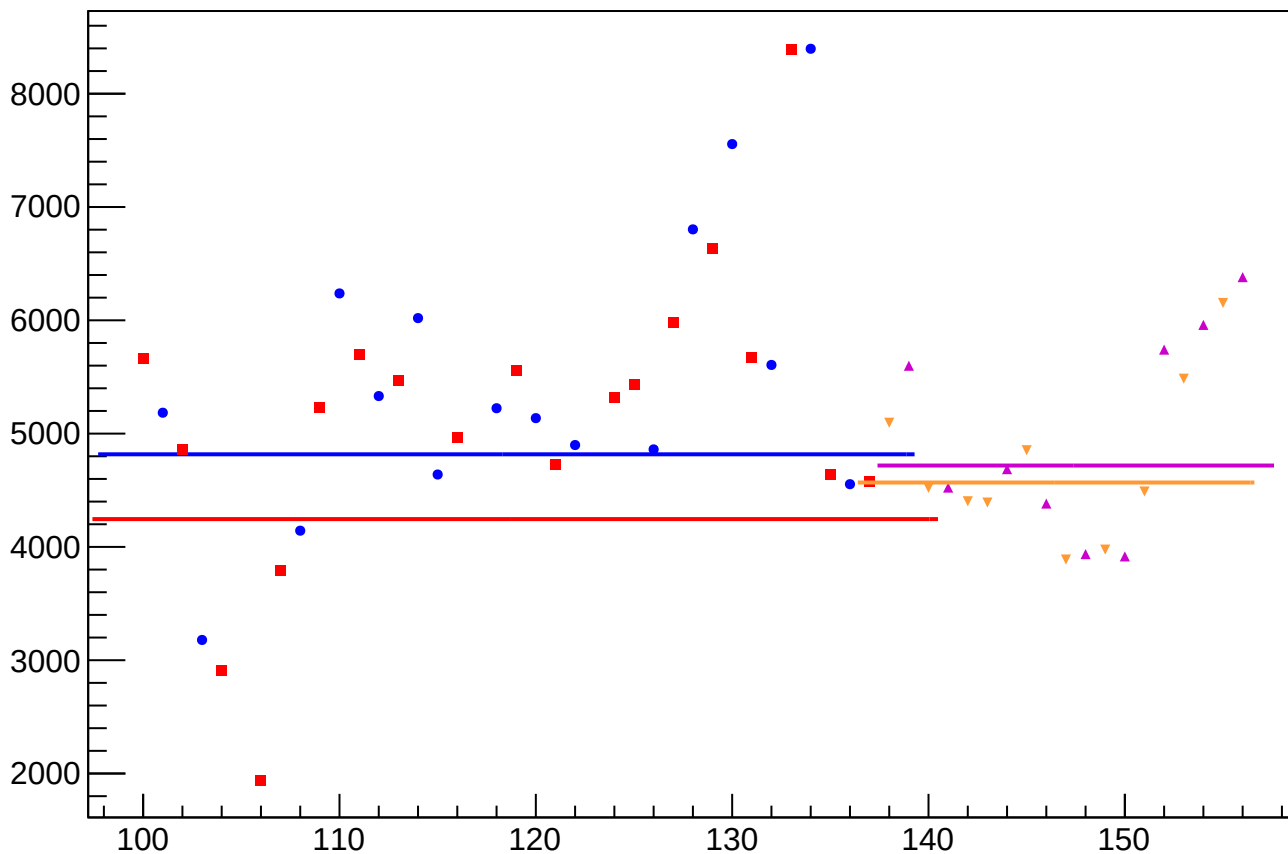
Right: -1151.477 $\pm$ 1238.823 χ^2 /NDF: 29.2/34

In: -378.943 $\pm$ 1256.888 χ^2 /NDF:19.2/24

Out: 1012.347 $\pm$ 1174.418 χ^2 /NDF:24.2/28

All: 363.841 $\pm$ 858.114 χ^2 /NDF: 44.1/53

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: 4568.396+/-1.169 χ^2/NDF : 268994.8/9

Right Out: 4245.533+/-1.180 χ^2/NDF : 1683159.2/18

Left In: 4718.199+/-1.212 χ^2/NDF : 438413.1/8

Left: 4640.554+/-0.841 χ^2/NDF : 715323.7/18

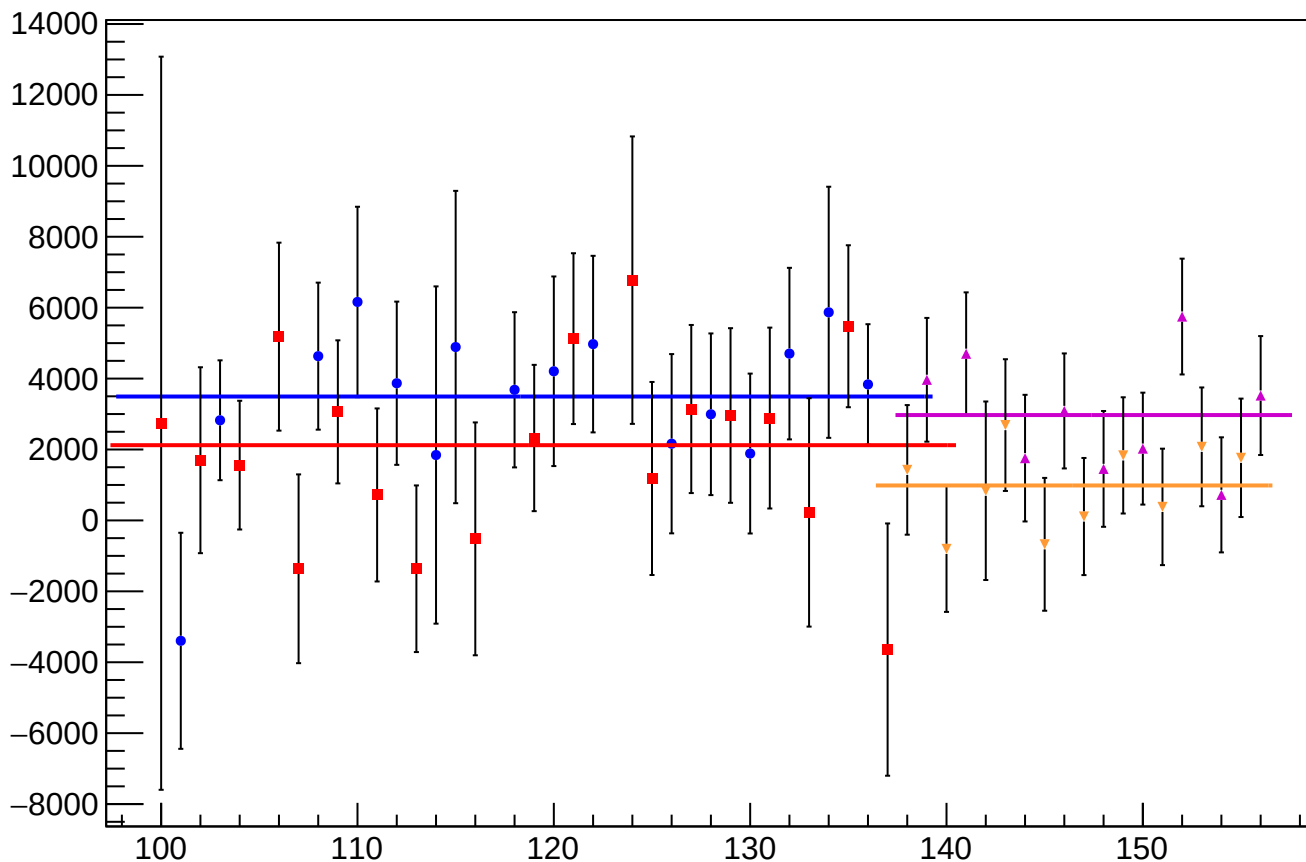
Right: 4502.414+/-0.876 χ^2/NDF : 2584018.5/34

In: 4764.047+/-0.889 χ^2/NDF : 1236937.8/24

Out: 4408.585+/-0.830 χ^2/NDF : 1989938.8/28

All: 4574.273+/-0.607 χ^2/NDF : 3312278.4/53

cor_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.046 ± 601.185 $\chi^2/\text{NDF}: 8.8/15$

Left Out: 985.704 ± 561.371 $\chi^2/\text{NDF}: 4.0/9$

Right Out: 2121.708 ± 587.619 $\chi^2/\text{NDF}: 15.1/18$

Left In: 2971.466 ± 555.336 $\chi^2/\text{NDF}: 7.9/8$

Left: 1989.317 ± 394.798 $\chi^2/\text{NDF}: 18.3/18$

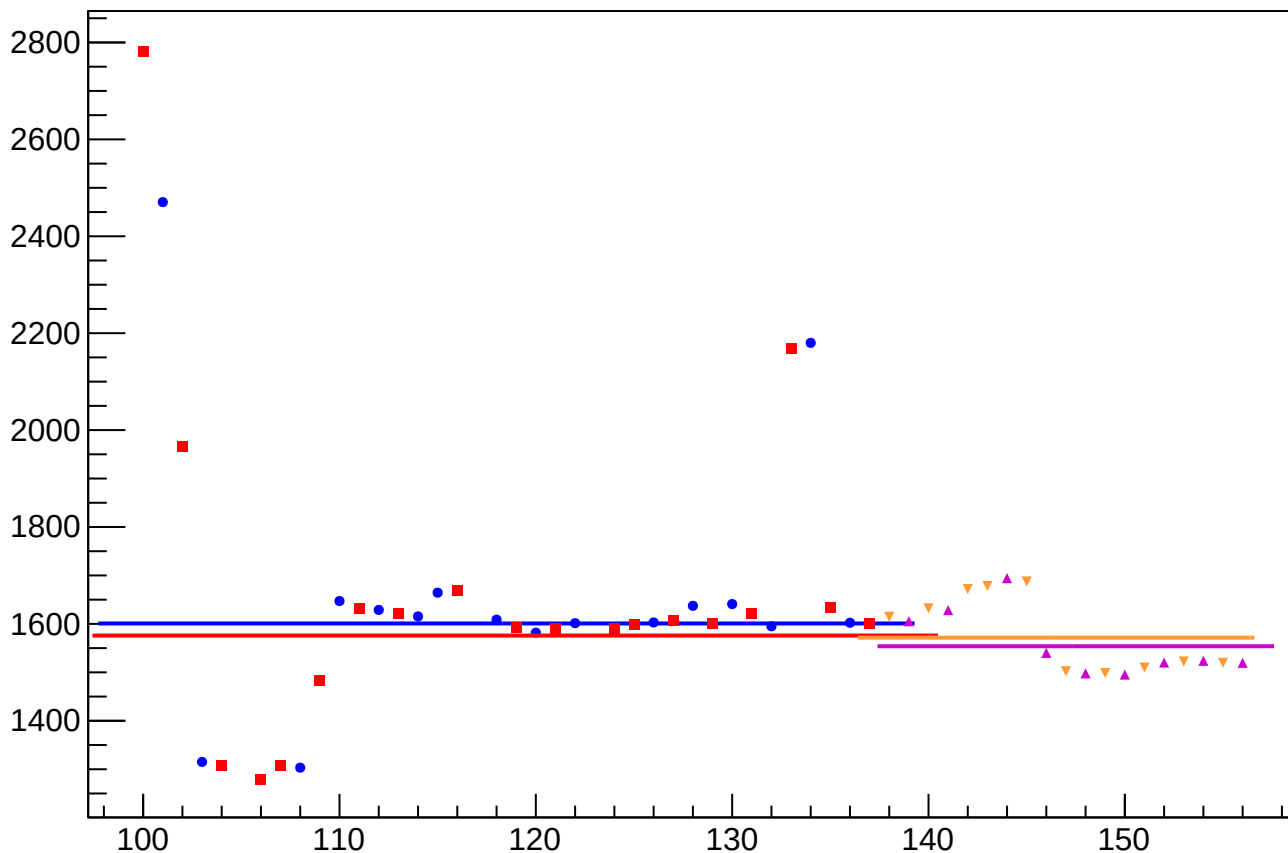
Right: 2792.219 ± 420.224 $\chi^2/\text{NDF}: 26.6/34$

In: 3212.071 ± 407.929 $\chi^2/\text{NDF}: 17.2/24$

Out: 1527.768 ± 405.912 $\chi^2/\text{NDF}: 21.1/28$

All: 2365.745 ± 287.733 $\chi^2/\text{NDF}: 46.8/53$

cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 $\pm$ 0.425 χ^2 /NDF: 317413.1/15

Left Out: 1571.596 $\pm$ 0.397 χ^2 /NDF:34844.7/9

Right Out: 1575.900 $\pm$ 0.414 χ^2 /NDF: 243332.0/18

Left In: 1553.892 $\pm$ 0.393 χ^2 /NDF:25474.1/8

Left: 1562.648 $\pm$ 0.279 χ^2 /NDF: 61324.1/18

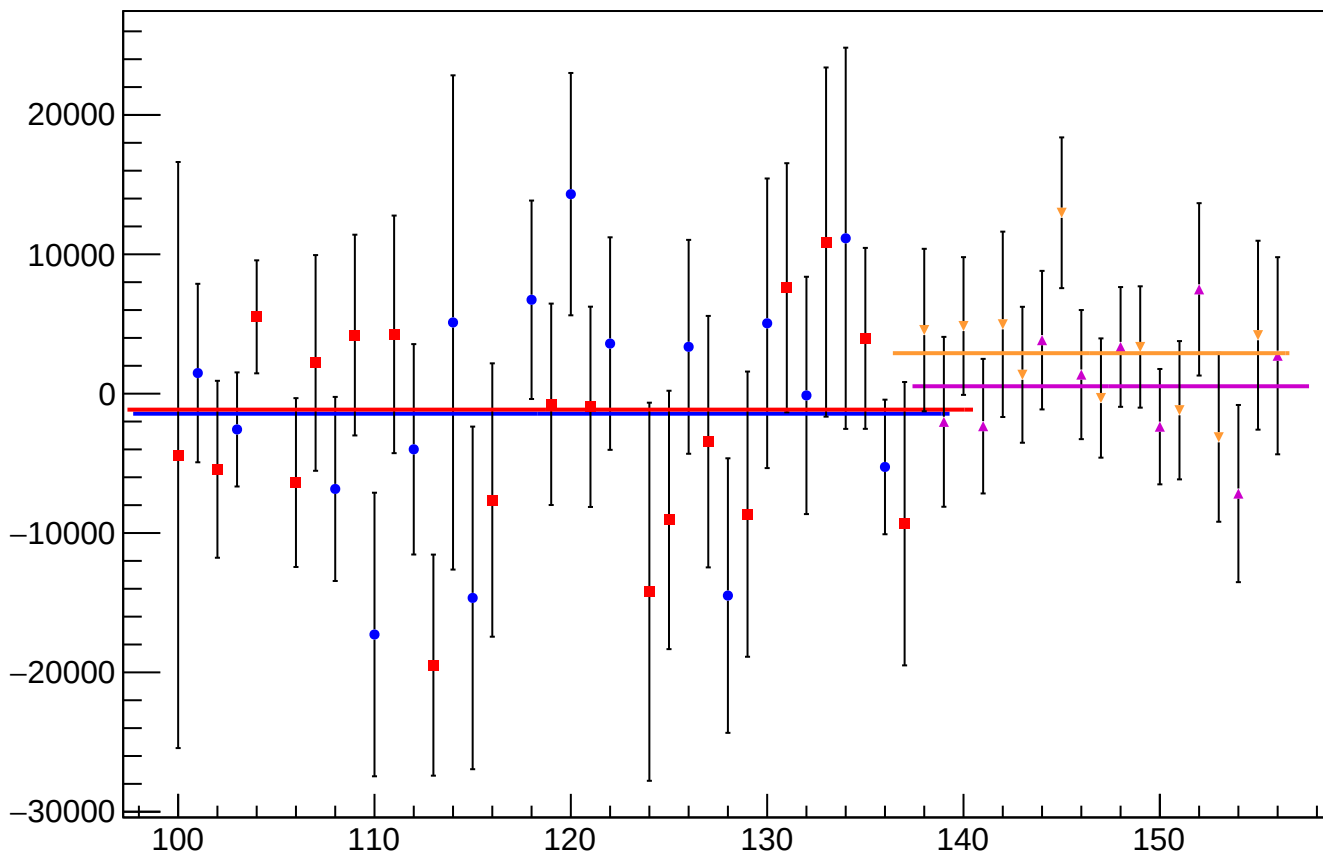
Right: 1588.056 $\pm$ 0.297 χ^2 /NDF: 562517.7/34

In: 1575.526 $\pm$ 0.288 χ^2 /NDF:349479.7/24

Out: 1573.658 $\pm$ 0.286 χ^2 /NDF:278233.0/28

All: 1574.586 $\pm$ 0.203 χ^2 /NDF: 627733.8/53

asym_usr_atr2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1437.362 ± 1848.324 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 2904.766 ± 1652.600 $\chi^2/\text{NDF}: 6.2/9$

Right Out: -1146.174 ± 1765.384 $\chi^2/\text{NDF}: 16.3/18$

Left In: 531.512 ± 1714.284 $\chi^2/\text{NDF}: 4.8/8$

Left: 1761.604 ± 1189.774 $\chi^2/\text{NDF}: 11.9/18$

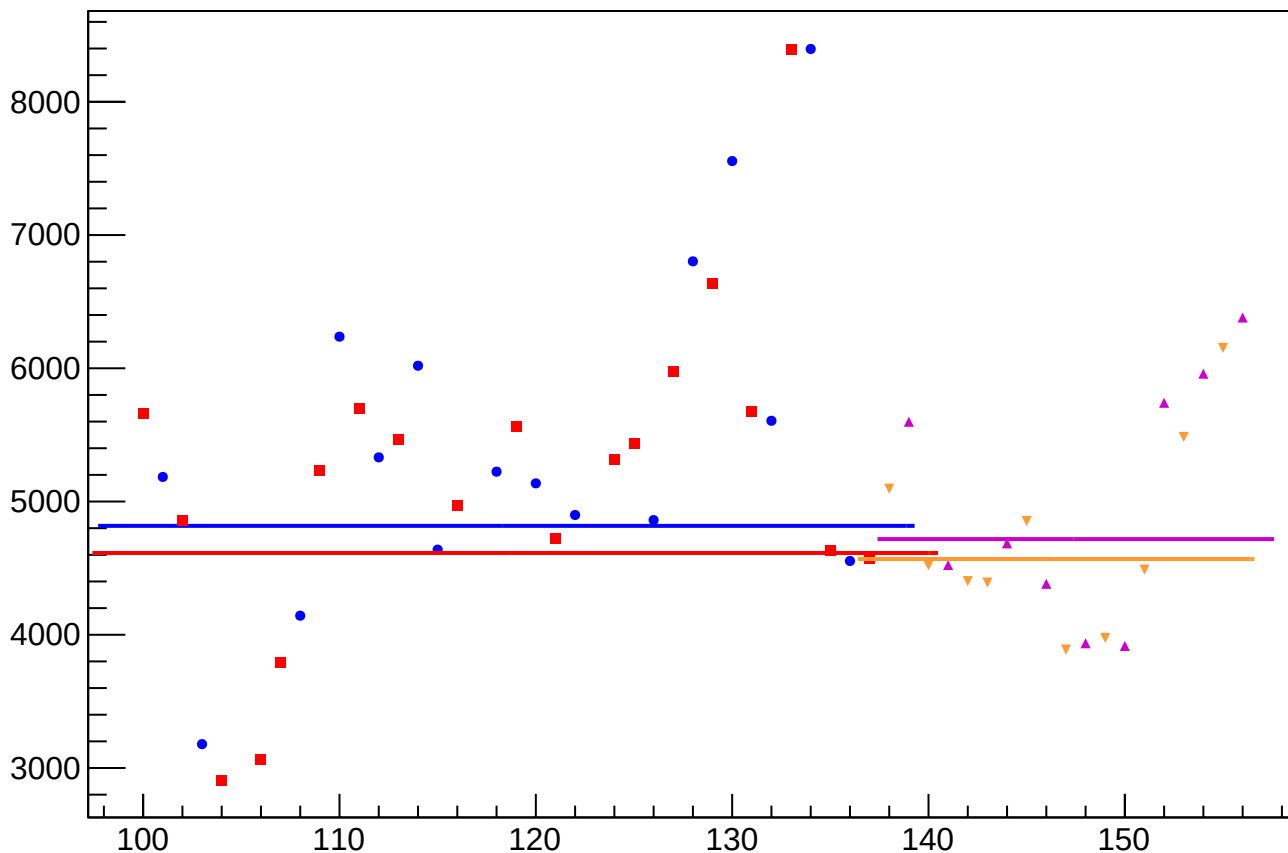
Right: -1285.089 ± 1276.630 $\chi^2/\text{NDF}: 30.1/34$

In: -378.952 ± 1256.900 $\chi^2/\text{NDF}: 19.2/24$

Out: 1012.820 ± 1206.468 $\chi^2/\text{NDF}: 25.2/28$

All: 345.416 ± 870.384 $\chi^2/\text{NDF}: 45.1/53$

asym_usr_atr2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4817.480 ± 1.307 $\chi^2/\text{NDF}: 795233.3/15$

Left Out: 4568.385 ± 1.169 $\chi^2/\text{NDF}: 269002.5/9$

Right Out: 4613.851 ± 1.248 $\chi^2/\text{NDF}: 977958.2/18$

Left In: 4718.198 ± 1.212 $\chi^2/\text{NDF}: 438413.6/8$

Left: 4640.548 ± 0.841 $\chi^2/\text{NDF}: 715333.0/18$

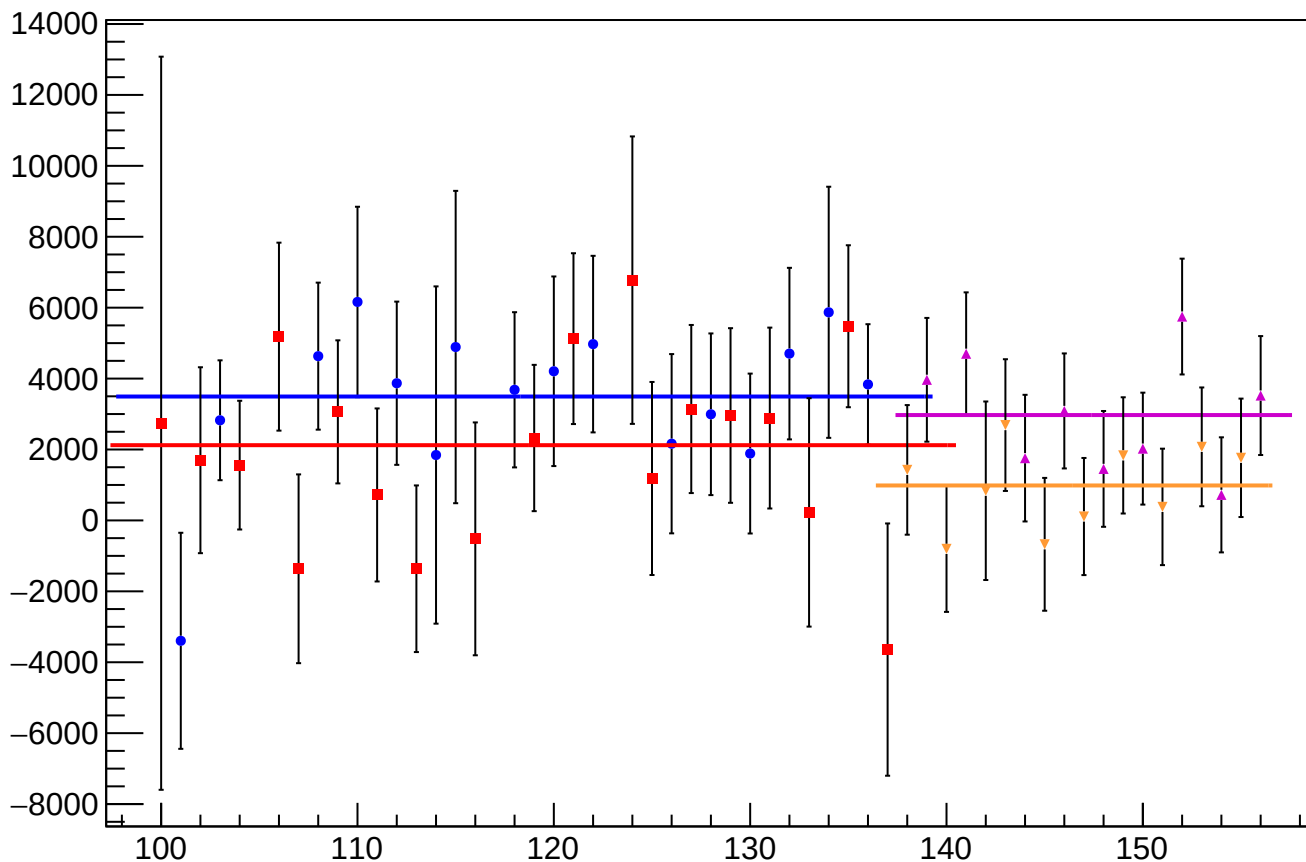
Right: 4710.994 ± 0.903 $\chi^2/\text{NDF}: 1785885.7/34$

In: 4764.109 ± 0.889 $\chi^2/\text{NDF}: 1236749.0/24$

Out: 4589.619 ± 0.853 $\chi^2/\text{NDF}: 1247667.6/28$

All: 4673.293 ± 0.615 $\chi^2/\text{NDF}: 2504477.8/53$

eigen_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: 985.704 $\pm$ 561.371 χ^2/NDF : 4.0/9

Right Out: 2121.708 $\pm$ 587.619 χ^2/NDF : 15.1/18

Left In: 2971.466 $\pm$ 555.336 χ^2/NDF : 7.9/8

Left: 1989.317 $\pm$ 394.798 χ^2/NDF : 18.3/18

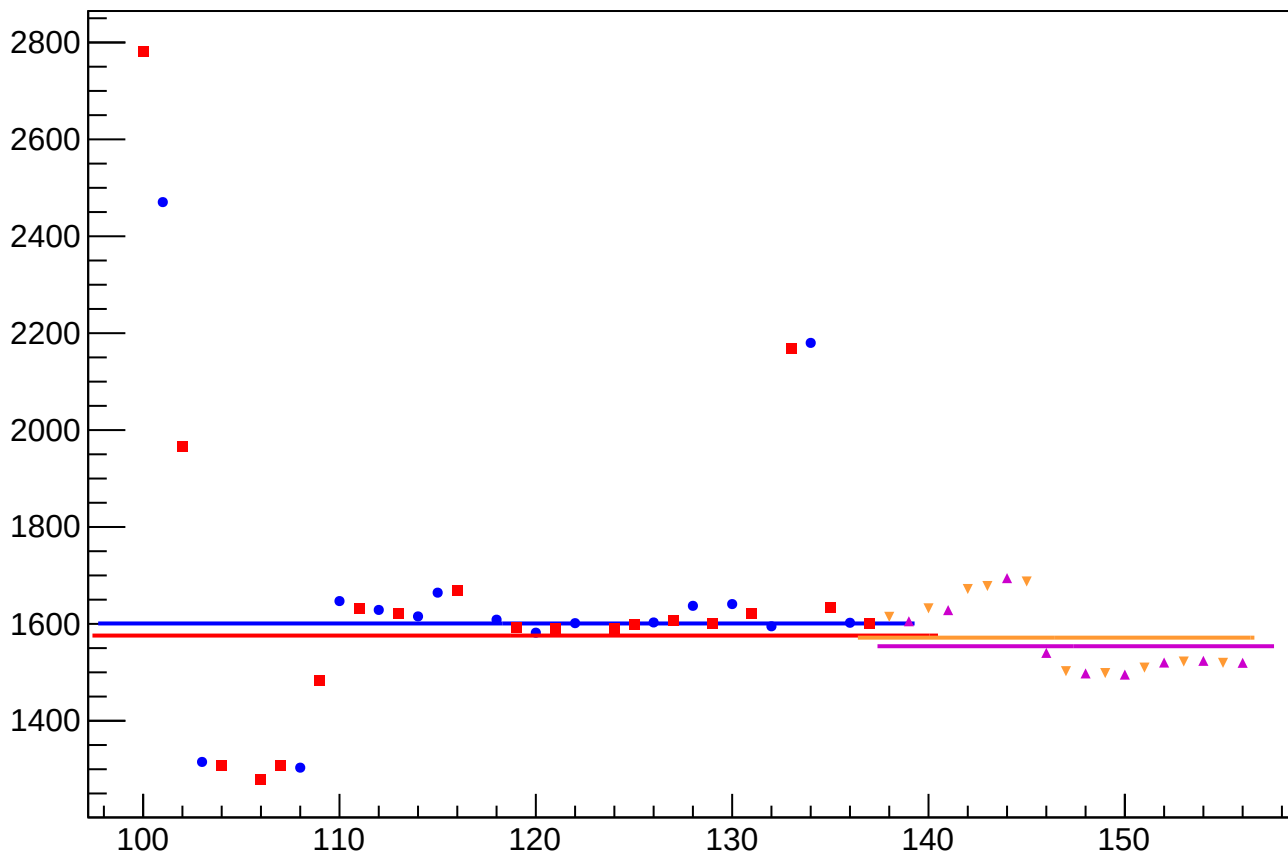
Right: 2792.219 $\pm$ 420.224 χ^2/NDF : 26.6/34

In: 3212.071 $\pm$ 407.929 χ^2/NDF : 17.2/24

Out: 1527.768 $\pm$ 405.912 χ^2/NDF : 21.1/28

All: 2365.745 $\pm$ 287.733 χ^2/NDF : 46.8/53

eigen_cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 $\pm$ 0.425 χ^2/NDF : 317413.1/15

Left Out: 1571.596 $\pm$ 0.397 χ^2/NDF : 34844.7/9

Right Out: 1575.900 $\pm$ 0.414 χ^2/NDF : 243332.0/18

Left In: 1553.892 $\pm$ 0.393 χ^2/NDF : 25474.1/8

Left: 1562.648 $\pm$ 0.279 χ^2/NDF : 61324.1/18

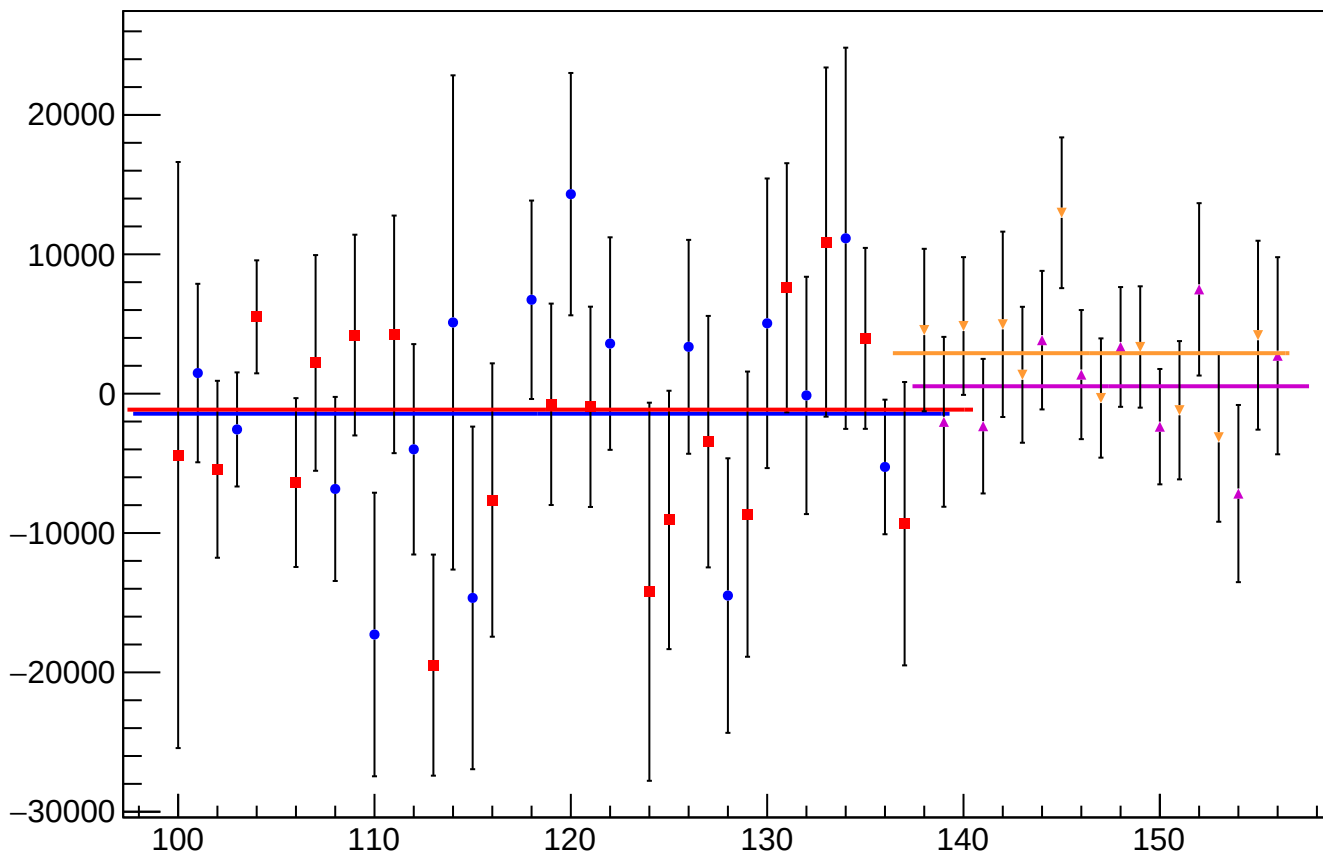
Right: 1588.056 $\pm$ 0.297 χ^2/NDF : 562517.7/34

In: 1575.526 $\pm$ 0.288 χ^2/NDF : 349479.7/24

Out: 1573.658 $\pm$ 0.286 χ^2/NDF : 278233.0/28

All: 1574.586 $\pm$ 0.203 χ^2/NDF : 627733.8/53

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: 2904.766 $\pm$ 1652.600 χ^2 /NDF: 6.2/9

Right Out: -1146.174 $\pm$ 1765.384 χ^2 /NDF: 16.3/18

Left In: 531.512 $\pm$ 1714.284 χ^2 /NDF: 4.8/8

Left: 1761.604 $\pm$ 1189.774 χ^2 /NDF: 11.9/18

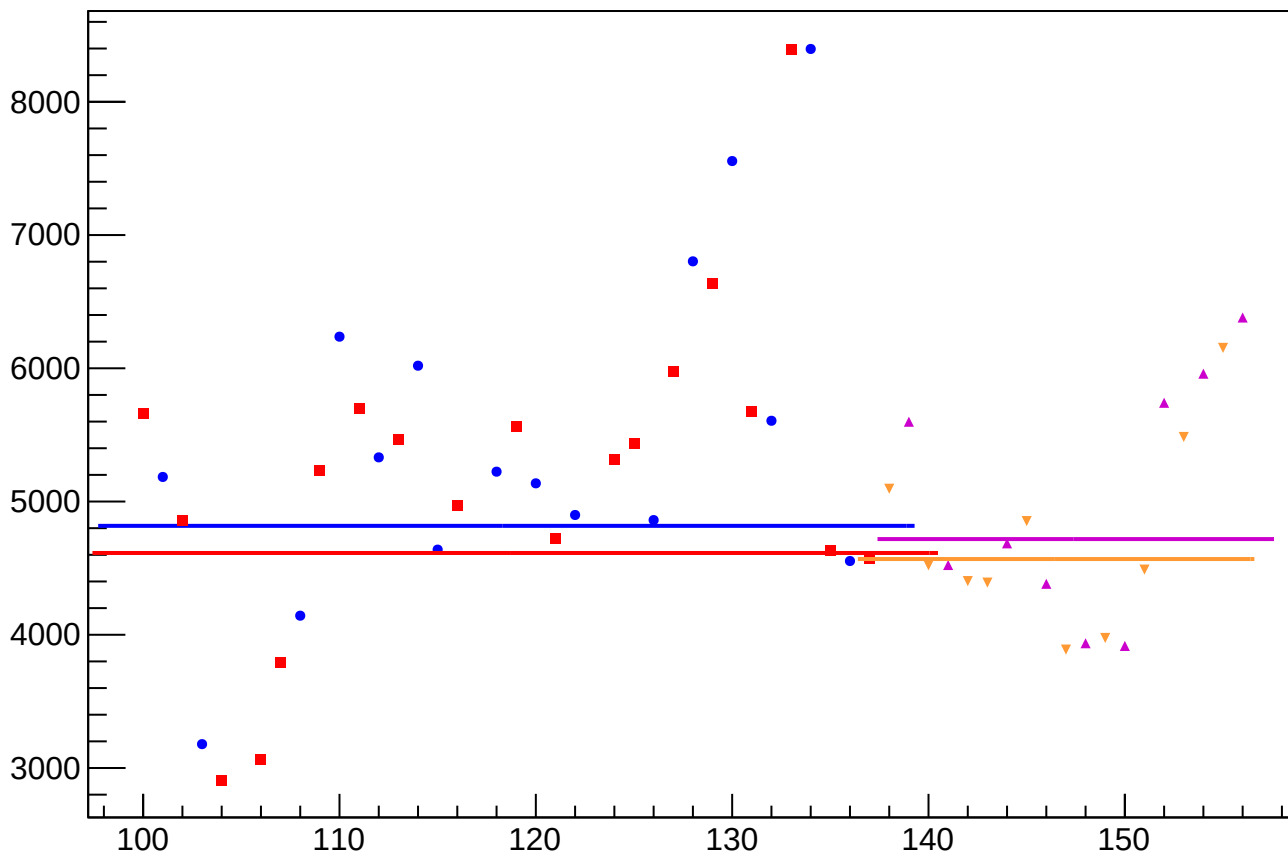
Right: -1285.089 $\pm$ 1276.630 χ^2 /NDF: 30.1/34

In: -378.952 $\pm$ 1256.900 χ^2 /NDF: 19.2/24

Out: 1012.820 $\pm$ 1206.468 χ^2 /NDF: 25.2/28

All: 345.416 $\pm$ 870.384 χ^2 /NDF: 45.1/53

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: 4568.385+/-1.169 χ^2/NDF : 269002.5/9

Right Out: 4613.851+/-1.248 χ^2/NDF : 977958.2/18

Left In: 4718.198+/-1.212 χ^2/NDF : 438413.6/8

Left: 4640.548+/-0.841 χ^2/NDF : 715333.0/18

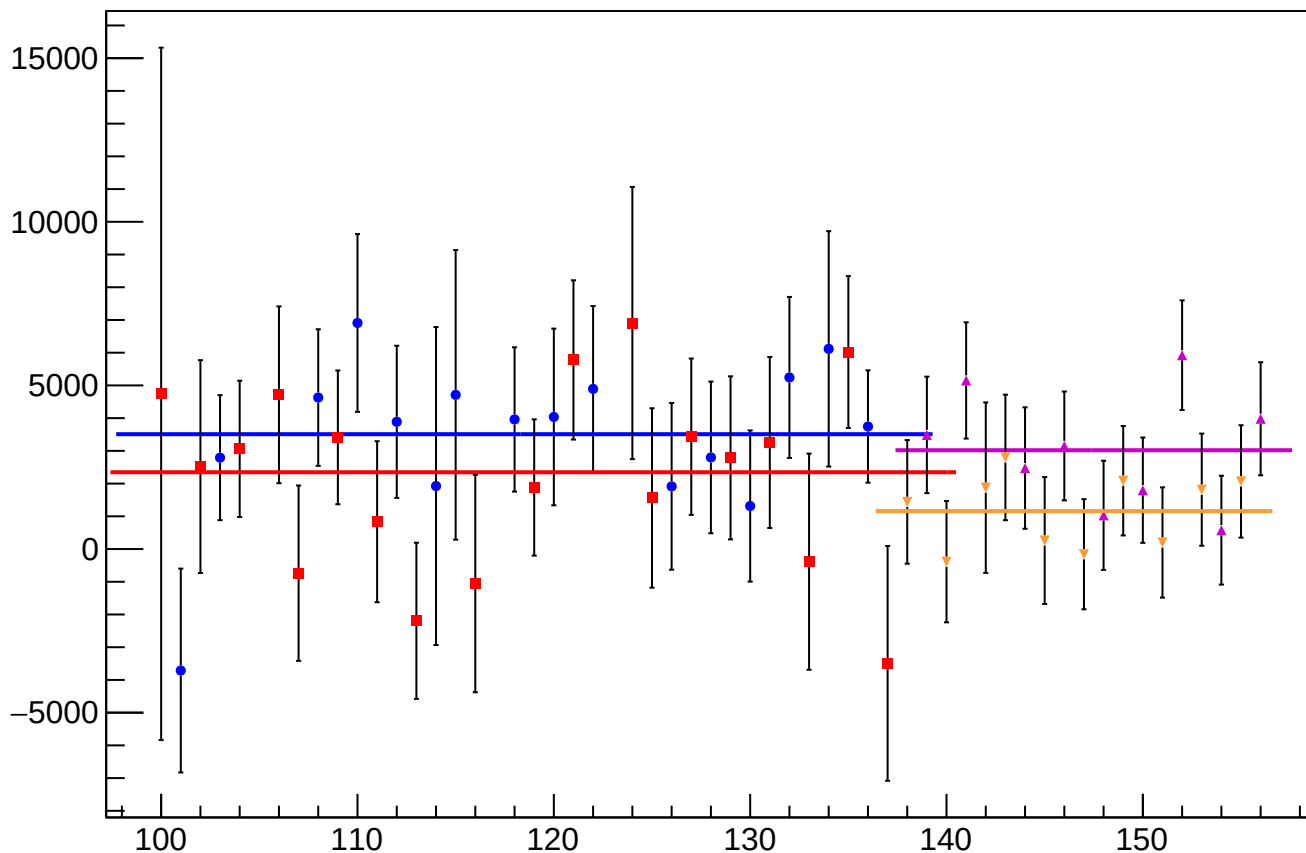
Right: 4710.994+/-0.903 χ^2/NDF : 1785885.7/34

In: 4764.109+/-0.889 χ^2/NDF : 1236749.0/24

Out: 4589.619+/-0.853 χ^2/NDF : 1247667.6/28

All: 4673.293+/-0.615 χ^2/NDF : 2504477.8/53

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: 1159.369 $\pm$ 577.417 χ^2 /NDF: 3.4/9

Right Out: 2346.859 $\pm$ 607.502 χ^2 /NDF: 17.1/18

Left In: 3019.528 $\pm$ 569.530 χ^2 /NDF: 9.1/8

Left: 2102.240 $\pm$ 405.478 χ^2 /NDF: 17.7/18

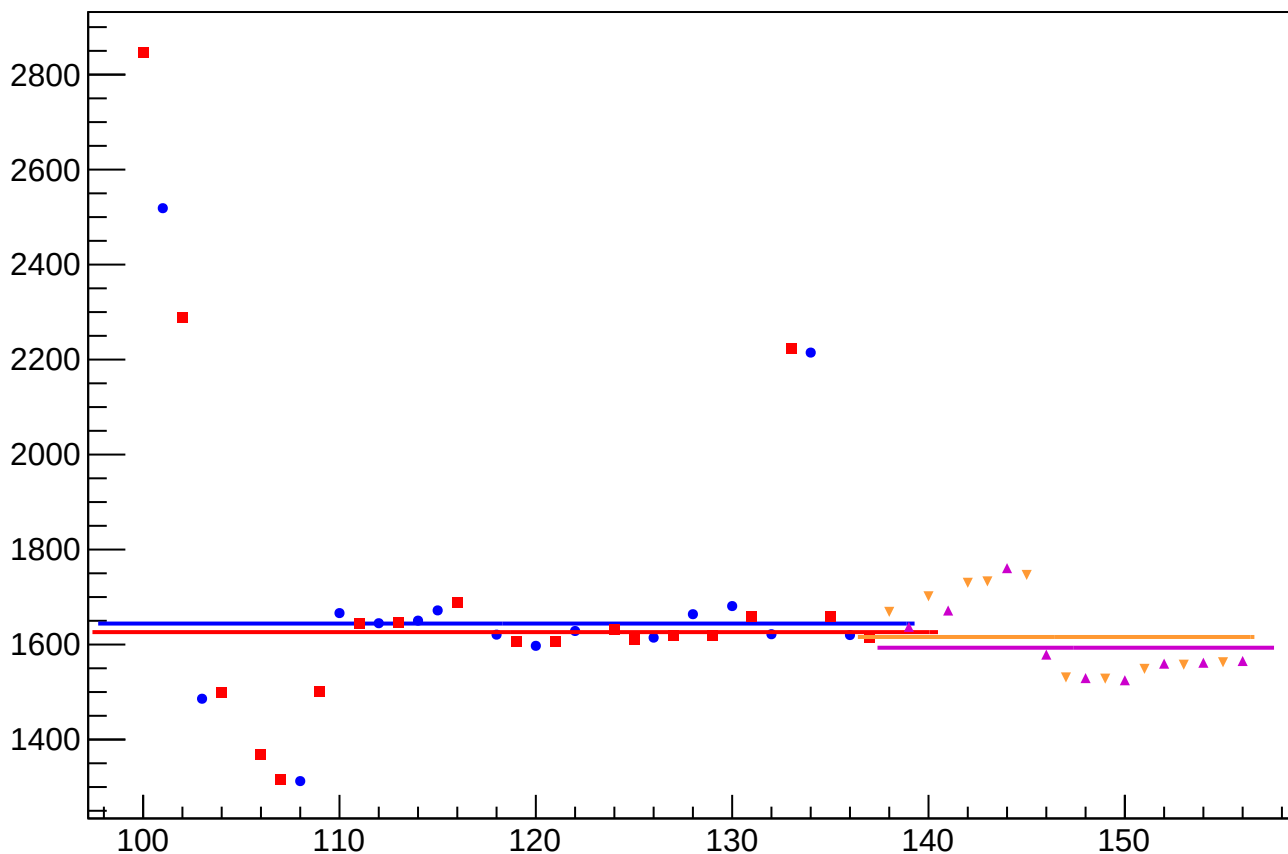
Right: 2919.425 $\pm$ 432.793 χ^2 /NDF: 29.3/34

In: 3245.055 $\pm$ 418.409 χ^2 /NDF: 19.8/24

Out: 1722.983 $\pm$ 418.527 χ^2 /NDF: 22.5/28

All: 2484.233 $\pm$ 295.902 χ^2 /NDF: 48.9/53

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: 1615.937 $\pm$ 0.408 χ^2 /NDF: 44248.0/9

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237639.1/18

Left In: 1593.308 $\pm$ 0.403 χ^2 /NDF: 30167.6/8

Left: 1604.467 $\pm$ 0.287 χ^2 /NDF: 75972.5/18

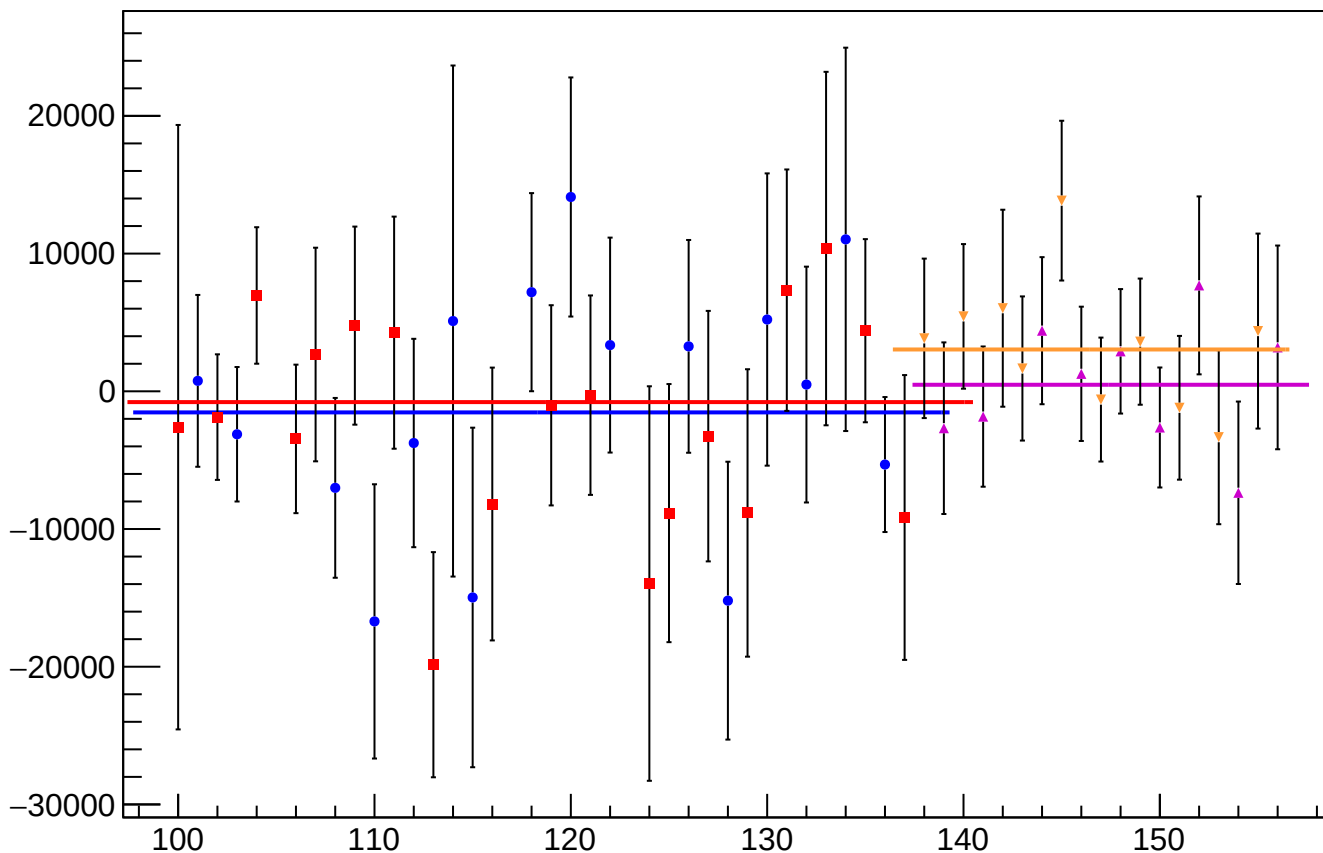
Right: 1635.043 $\pm$ 0.306 χ^2 /NDF: 513324.8/34

In: 1616.732 $\pm$ 0.296 χ^2 /NDF: 312335.3/24

Out: 1620.801 $\pm$ 0.296 χ^2 /NDF: 282185.7/28

All: 1618.767 $\pm$ 0.209 χ^2 /NDF: 594615.7/53

asym_usr_atr2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1532.110 $\pm$ 1913.799 χ^2 /NDF: 13.9/15

Left Out: 3037.173 $\pm$ 1739.193 χ^2 /NDF: 6.3/9

Right Out: -784.235 $\pm$ 1748.566 χ^2 /NDF: 15.0/18

Left In: 474.453 $\pm$ 1801.438 χ^2 /NDF: 4.6/8

Left: 1800.852 $\pm$ 1251.222 χ^2 /NDF: 12.0/18

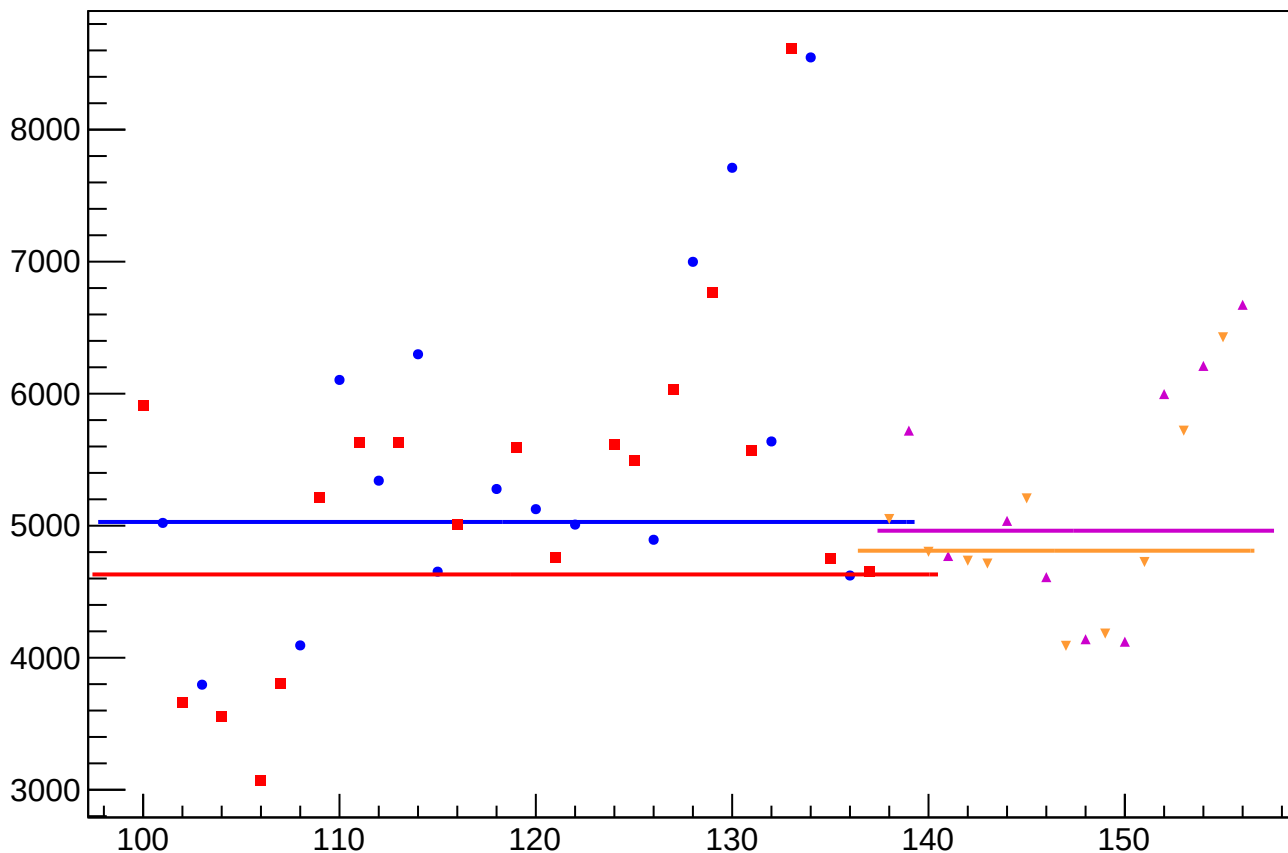
Right: -1124.500 $\pm$ 1290.893 χ^2 /NDF: 29.0/34

In: -468.199 $\pm$ 1311.733 χ^2 /NDF: 19.1/24

Out: 1136.738 $\pm$ 1233.096 χ^2 /NDF: 23.8/28

All: 383.816 $\pm$ 898.445 χ^2 /NDF: 43.6/53

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: 4810.656 +/- 1.230 χ^2/NDF : 248654.9/9

Right Out: 4630.901 +/- 1.236 χ^2/NDF : 863515.0/18

Left In: 4962.056 +/- 1.274 χ^2/NDF : 413251.7/8

Left: 4883.695 +/- 0.885 χ^2/NDF : 669218.3/18

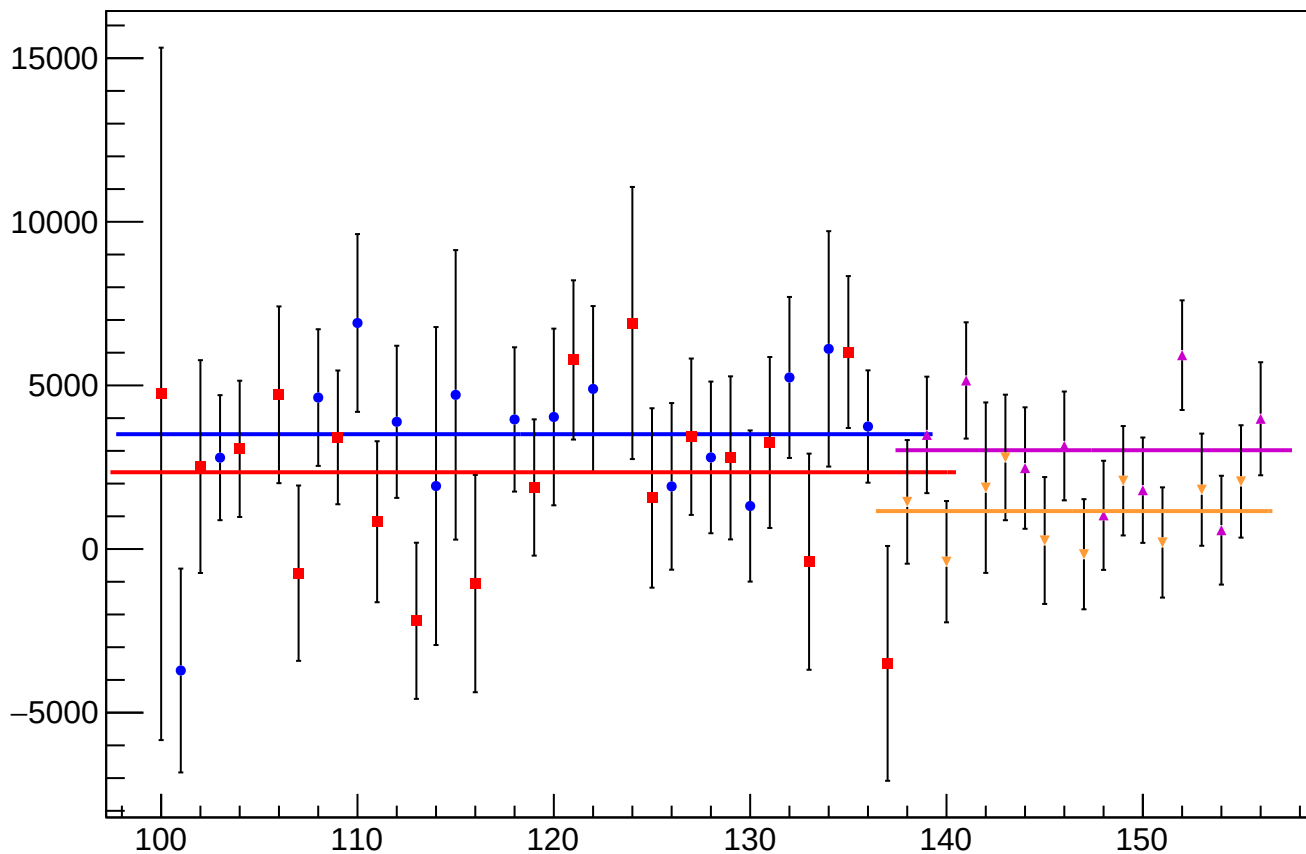
Right: 4811.776 +/- 0.913 χ^2/NDF : 1476020.7/34

In: 4993.247 +/- 0.928 χ^2/NDF : 979997.4/24

Out: 4721.261 +/- 0.872 χ^2/NDF : 1122794.8/28

All: 4848.857 +/- 0.635 χ^2/NDF : 2148439.9/53

eigen_dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3509.509+/-616.724 χ^2/NDF : 10.4/15

Left Out: 1159.364+/-577.417 χ^2/NDF : 3.4/9

Right Out: 2346.865+/-607.502 χ^2/NDF : 17.1/18

Left In: 3019.525+/-569.530 χ^2/NDF : 9.1/8

Left: 2102.235+/-405.478 χ^2/NDF : 17.7/18

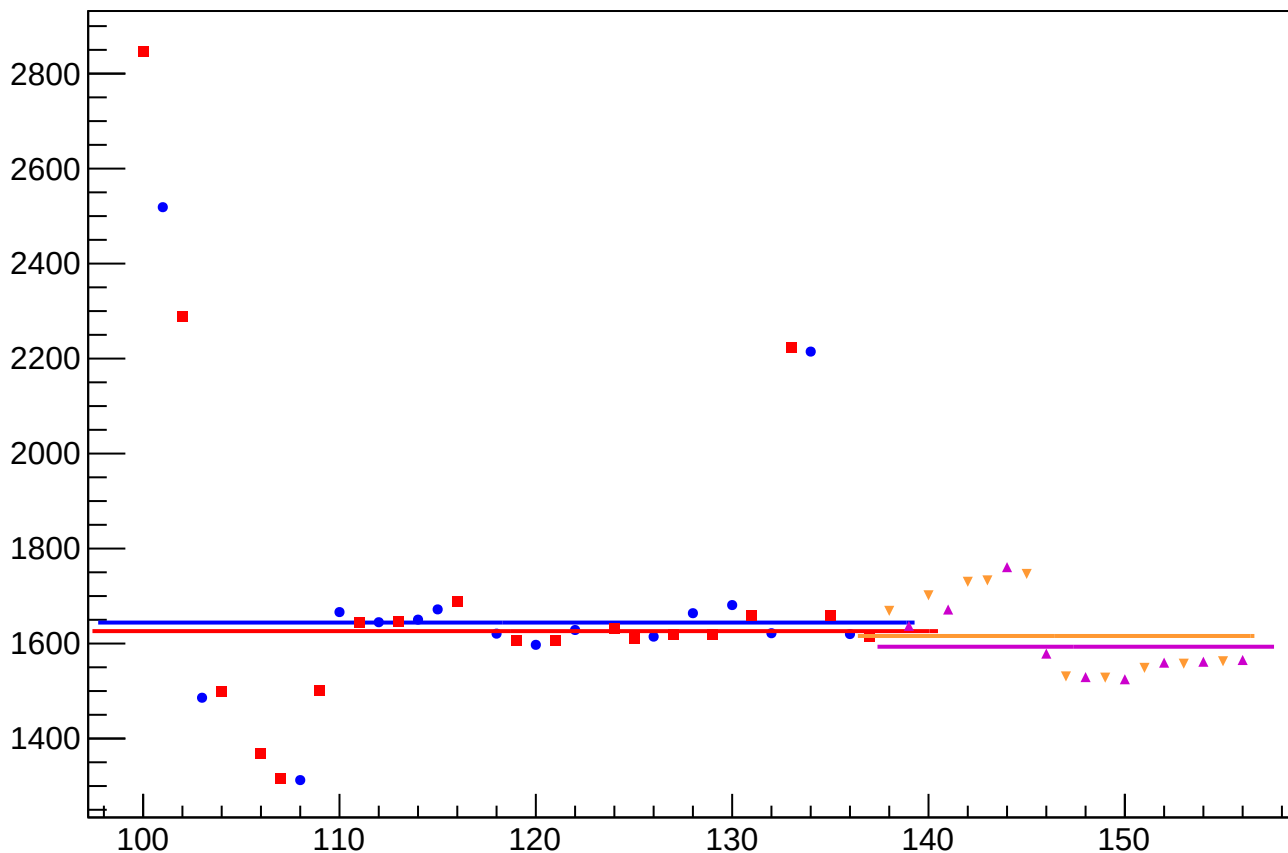
Right: 2919.429+/-432.792 χ^2/NDF : 29.3/34

In: 3245.054+/-418.409 χ^2/NDF : 19.8/24

Out: 1722.984+/-418.527 χ^2/NDF : 22.5/28

All: 2484.233+/-295.902 χ^2/NDF : 48.9/53

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: 1615.938 $\pm$ 0.408 χ^2 /NDF: 44248.1/9

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237638.8/18

Left In: 1593.309 $\pm$ 0.403 χ^2 /NDF: 30167.5/8

Left: 1604.468 $\pm$ 0.287 χ^2 /NDF: 75972.7/18

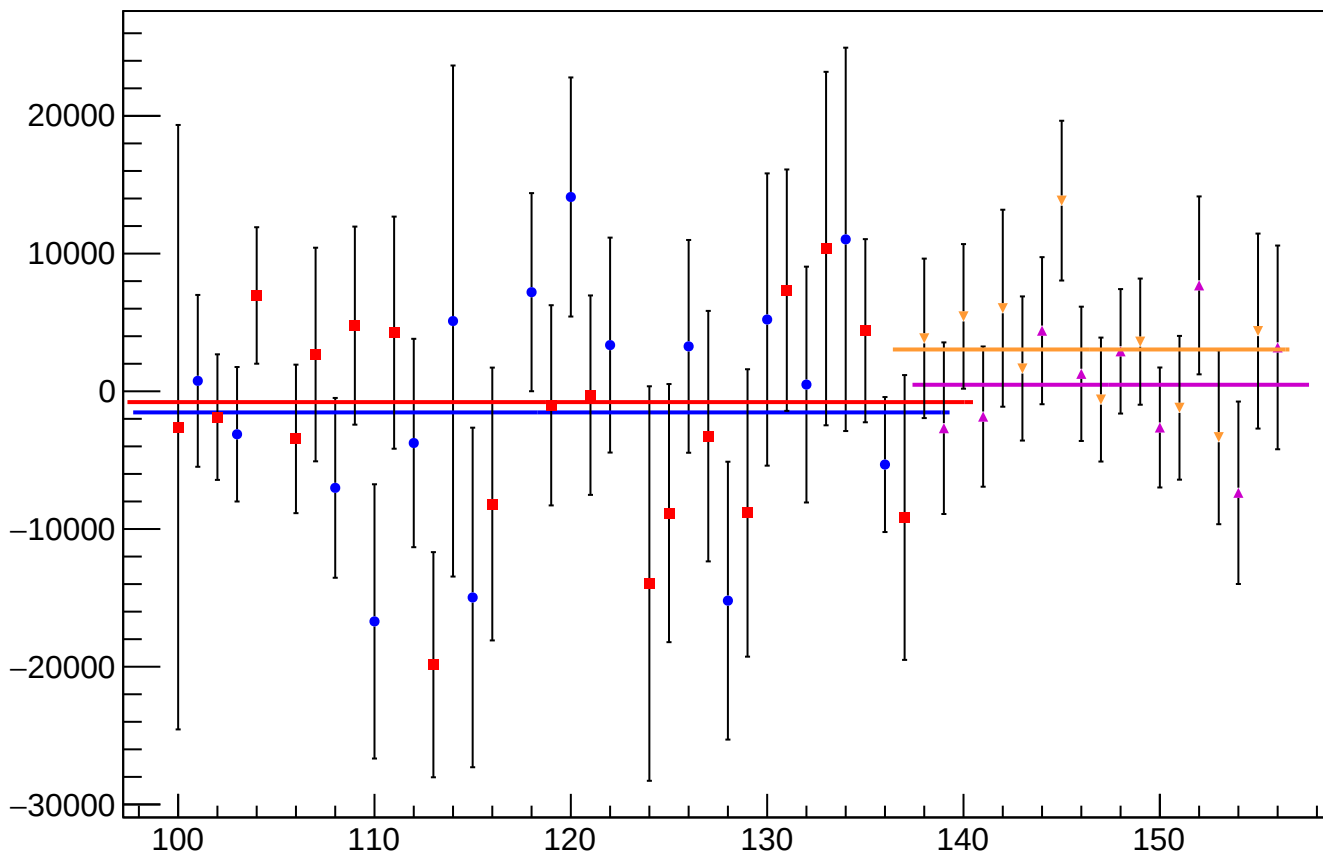
Right: 1635.042 $\pm$ 0.306 χ^2 /NDF: 513324.5/34

In: 1616.732 $\pm$ 0.296 χ^2 /NDF: 312335.0/24

Out: 1620.801 $\pm$ 0.296 χ^2 /NDF: 282185.5/28

All: 1618.767 $\pm$ 0.209 χ^2 /NDF: 594615.1/53

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: 3037.170 $\pm$ 1739.196 χ^2 /NDF: 6.3/9

Right Out: -784.236 $\pm$ 1748.563 χ^2 /NDF: 15.0/18

Left In: 474.450 $\pm$ 1801.440 χ^2 /NDF: 4.6/8

Left: 1800.849 $\pm$ 1251.224 χ^2 /NDF: 12.0/18

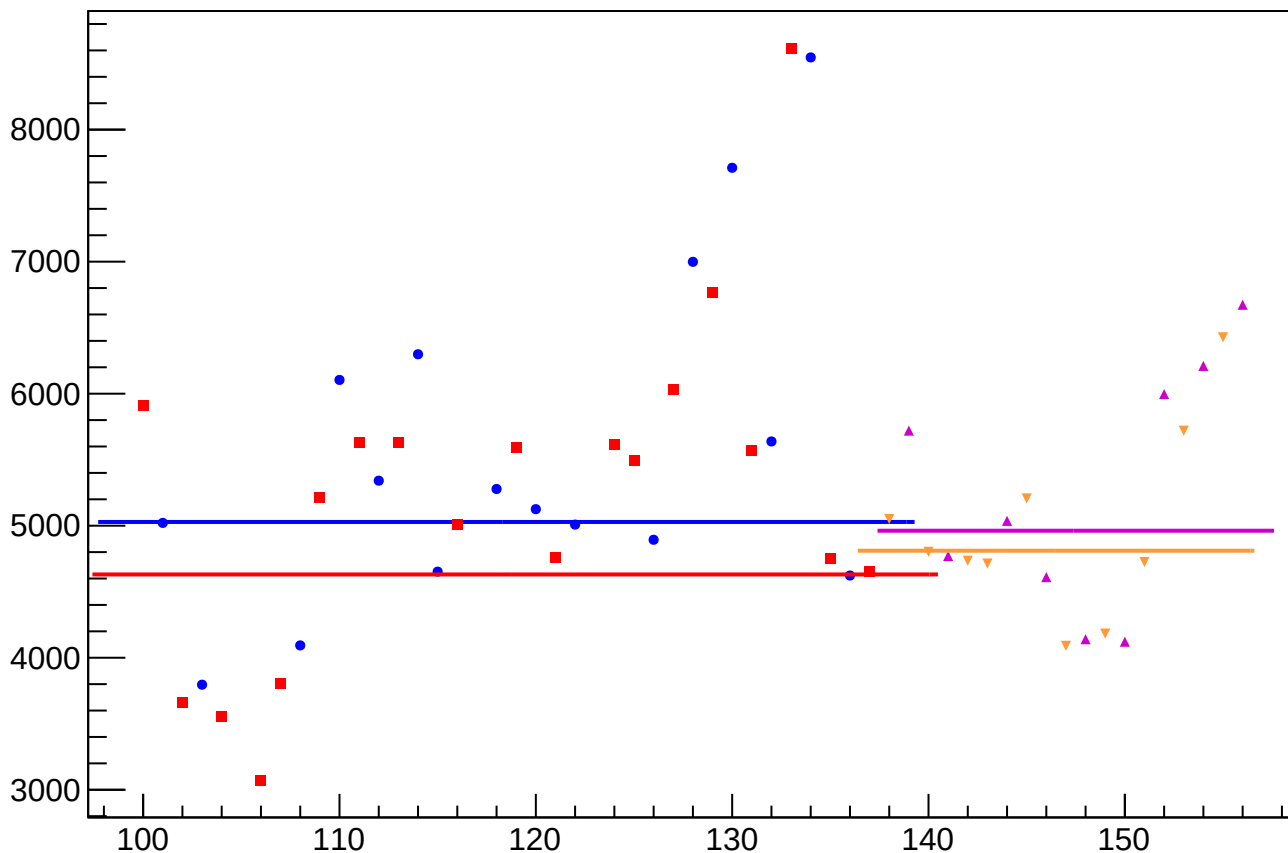
Right: -1124.493 $\pm$ 1290.891 χ^2 /NDF: 29.0/34

In: -468.196 $\pm$ 1311.733 χ^2 /NDF: 19.1/24

Out: 1136.730 $\pm$ 1233.096 χ^2 /NDF: 23.8/28

All: 383.814 $\pm$ 898.445 χ^2 /NDF: 43.6/53

asym_usr_atr2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 5028.443 $\pm$ 1.353 χ^2 /NDF: 565463.1/15

Left Out: 4810.663 $\pm$ 1.230 χ^2 /NDF: 248654.6/9

Right Out: 4630.895 $\pm$ 1.236 χ^2 /NDF: 863509.0/18

Left In: 4962.063 $\pm$ 1.274 χ^2 /NDF: 413250.5/8

Left: 4883.702 $\pm$ 0.885 χ^2 /NDF: 669216.8/18

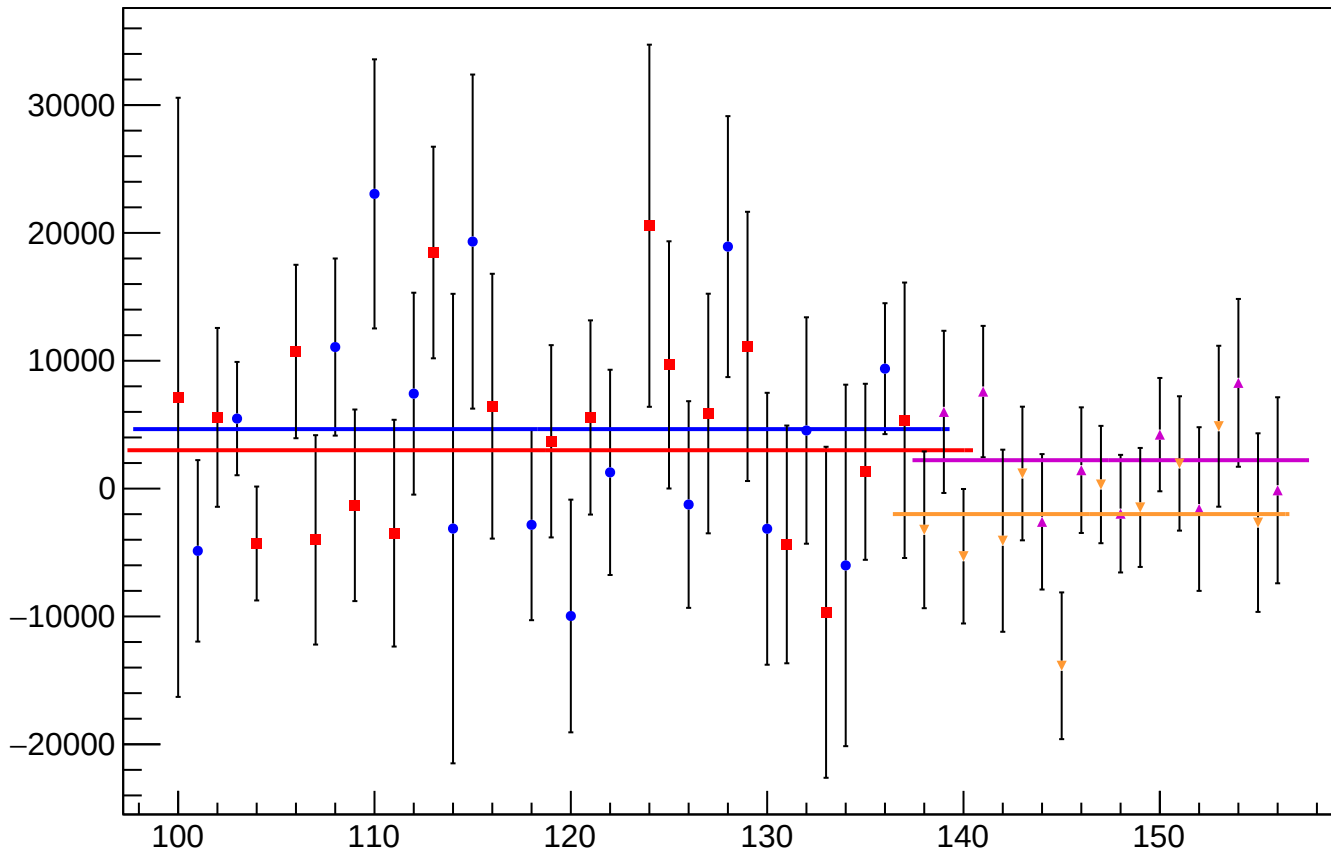
Right: 4811.769 $\pm$ 0.913 χ^2 /NDF: 1476008.6/34

In: 4993.247 $\pm$ 0.928 χ^2 /NDF: 979989.3/24

Out: 4721.262 $\pm$ 0.872 χ^2 /NDF: 1122790.1/28

All: 4848.858 $\pm$ 0.635 χ^2 /NDF: 2148427.4/53

asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 4653.137+/-1958.496 χ^2/NDF : 15.5/15

Left Out: -1993.234+/-1754.095 χ^2/NDF : 7.2/9

Right Out: 3000.980+/-1882.821 χ^2/NDF : 13.9/18

Left In: 2222.026+/-1812.309 χ^2/NDF : 4.6/8

Left: 45.609+/-1260.410 χ^2/NDF : 14.6/18

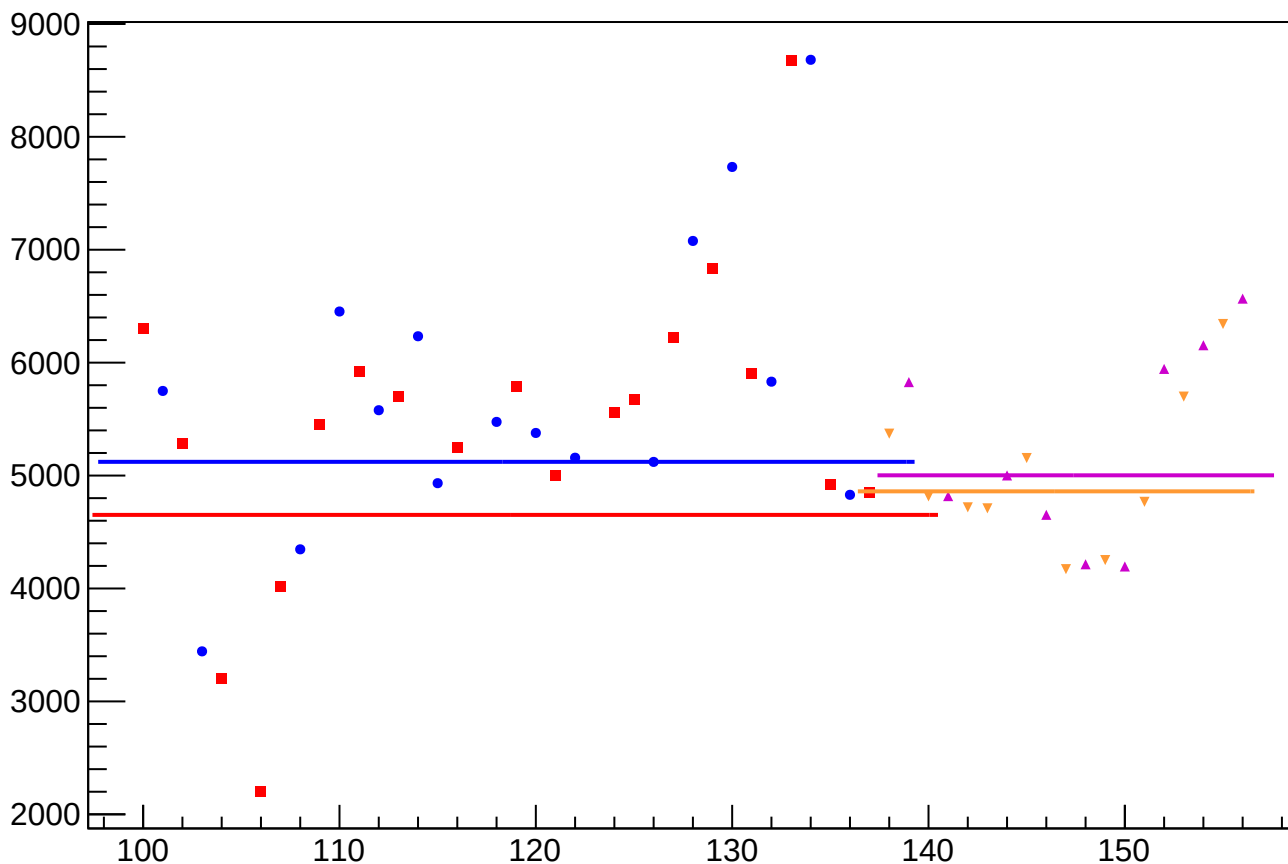
Right: 3794.523+/-1357.320 χ^2/NDF : 29.8/34

In: 3343.473+/-1330.178 χ^2/NDF : 21.0/24

Out: 327.328+/-1283.430 χ^2/NDF : 24.8/28

All: 1781.470+/-923.606 χ^2/NDF : 48.5/53

asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 5121.644+/-1.385 χ^2/NDF : 720370.1/15

Left Out: 4860.267+/-1.240 χ^2/NDF : 227271.5/9

Right Out: 4651.727+/-1.280 χ^2/NDF : 1344868.0/18

Left In: 5002.239+/-1.281 χ^2/NDF : 369064.3/8

Left: 4928.937+/-0.891 χ^2/NDF : 602672.9/18

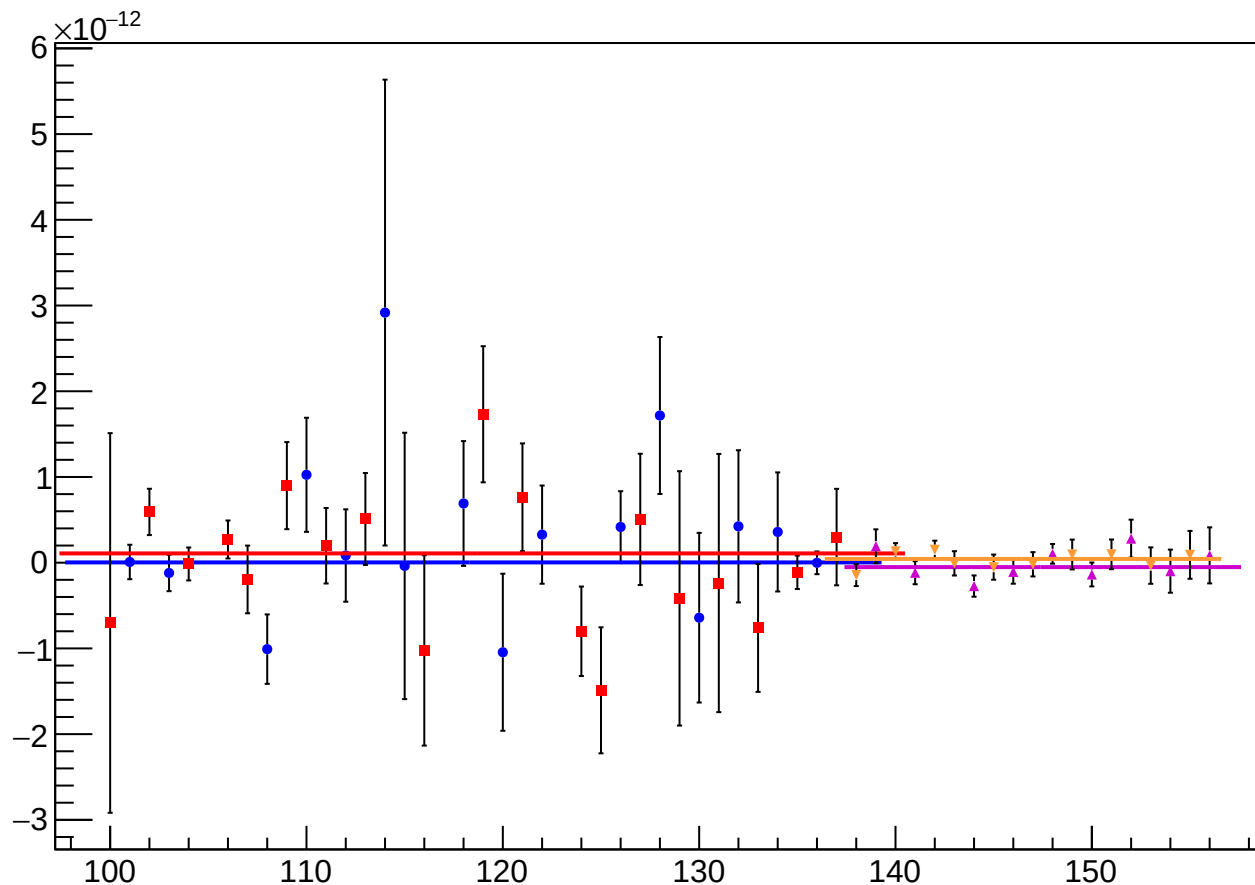
Right: 4868.287+/-0.940 χ^2/NDF : 2127316.1/34

In: 5057.319+/-0.941 χ^2/NDF : 1093439.2/24

Out: 4759.307+/-0.891 χ^2/NDF : 1585825.1/28

All: 4900.229+/-0.647 χ^2/NDF : 2732181.0/53

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.0/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 5.1/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.1/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.8/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.8/18

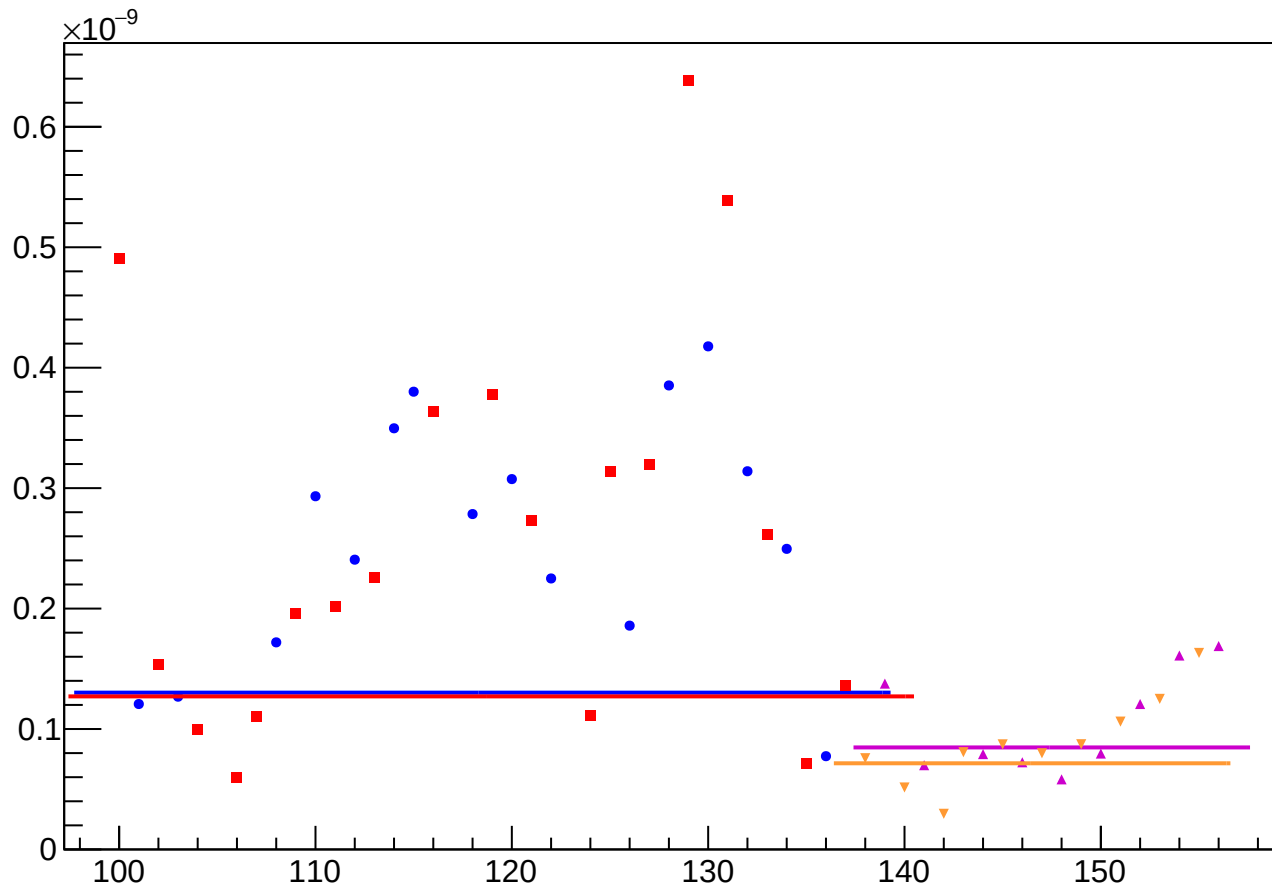
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.9/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 28.1/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 30.7/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 61.2/53

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 : 878066.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1734331.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 667226.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1619535.0/18

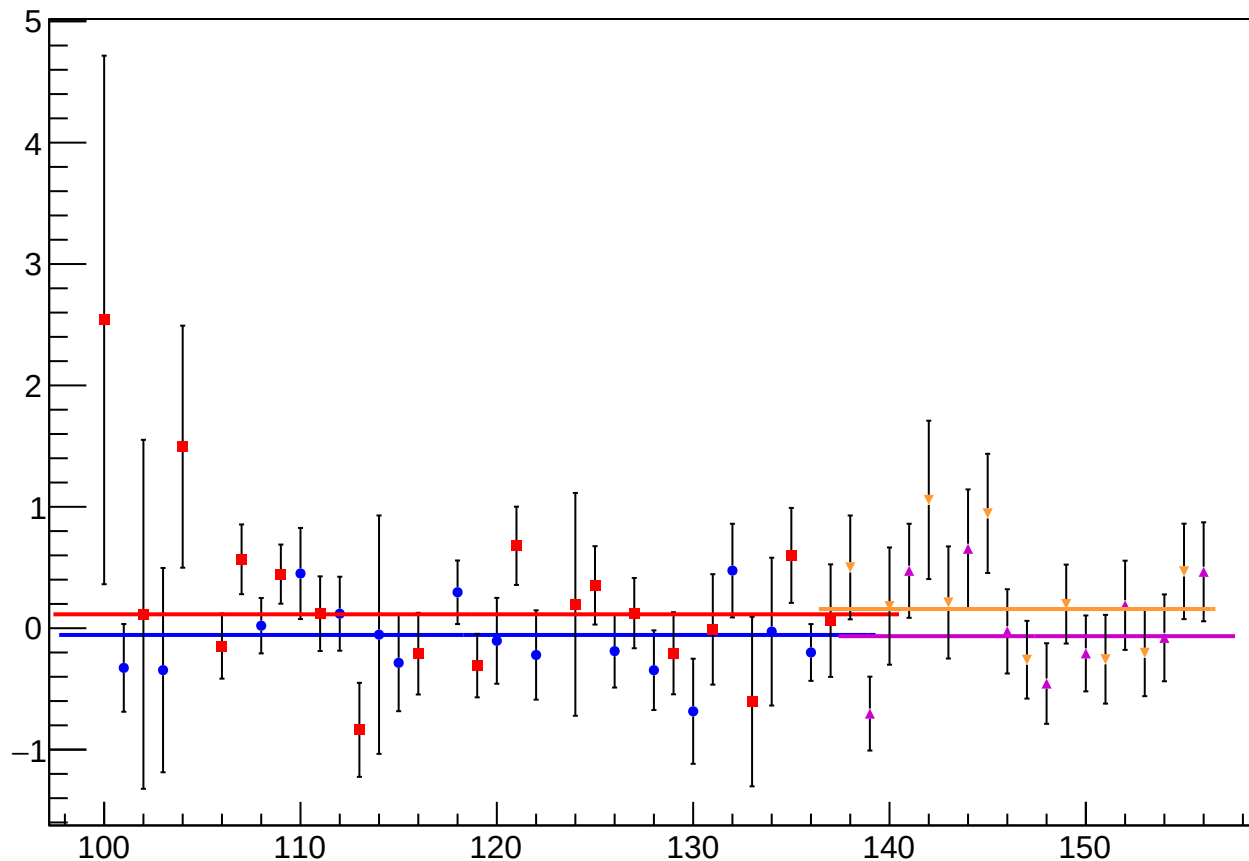
Right: 0.000+/-0.000 χ^2/NDF : 3064818.5/34

In: 0.000+/-0.000 χ^2/NDF : 2403339.1/24

Out: 0.000+/-0.000 χ^2/NDF : 3229249.0/28

All: 0.000+/-0.000 χ^2/NDF : 5746102.7/53

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.158 ± 0.127 χ^2/NDF : 9.8/9

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.065 ± 0.119 χ^2/NDF : 12.3/8

Left: 0.039 ± 0.087 χ^2/NDF : 23.7/18

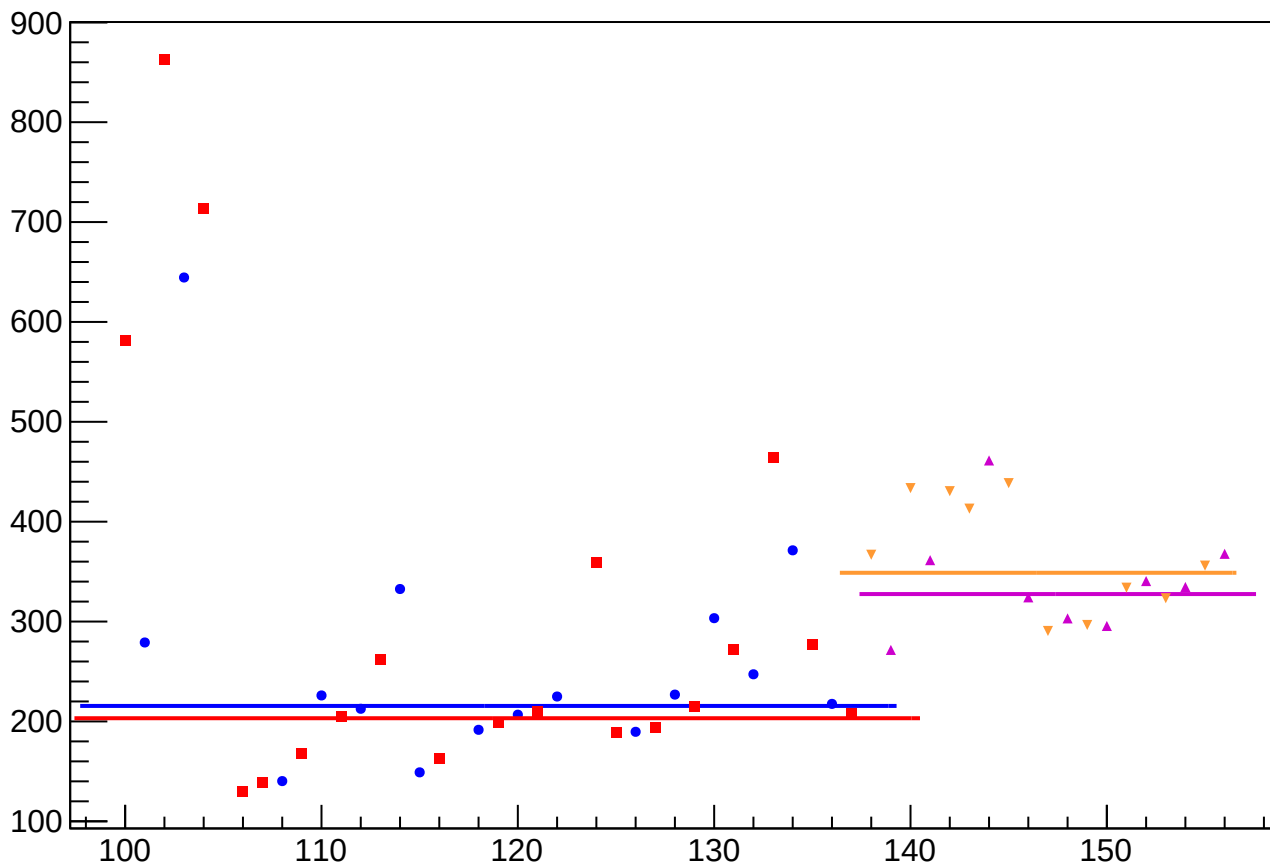
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.059 ± 0.069 χ^2/NDF : 22.9/24

Out: 0.128 ± 0.070 χ^2/NDF : 35.1/28

All: 0.034 ± 0.049 χ^2/NDF : 61.6/53

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: 348.839+/-0.090 χ^2/NDF : 334272.1/9

Right Out: 203.207+/-0.059 χ^2/NDF : 1835552.6/18

Left In: 327.529+/-0.084 χ^2/NDF : 286968.9/8

Left: 337.499+/-0.061 χ^2/NDF : 651191.7/18

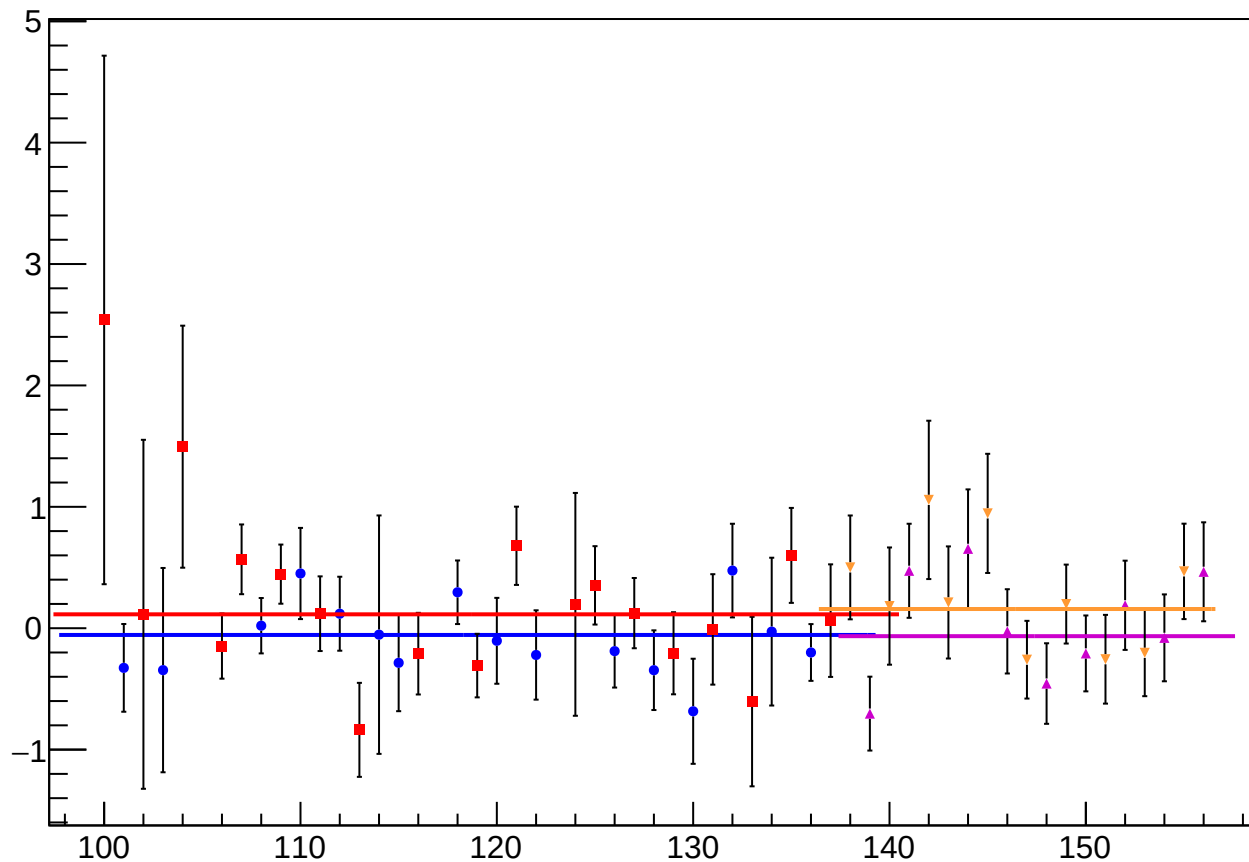
Right: 209.199+/-0.042 χ^2/NDF : 3005585.2/34

In: 253.590+/-0.049 χ^2/NDF : 2603211.7/24

Out: 246.936+/-0.049 χ^2/NDF : 4009093.9/28

All: 250.271+/-0.035 χ^2/NDF : 6621465.4/53

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 $\pm$ 0.085 χ^2/NDF : 10.7/15

Left Out: 0.158 $\pm$ 0.127 χ^2/NDF : 9.8/9

Right Out: 0.114 $\pm$ 0.083 χ^2/NDF : 25.2/18

Left In: -0.065 $\pm$ 0.119 χ^2/NDF : 12.3/8

Left: 0.039 $\pm$ 0.087 χ^2/NDF : 23.7/18

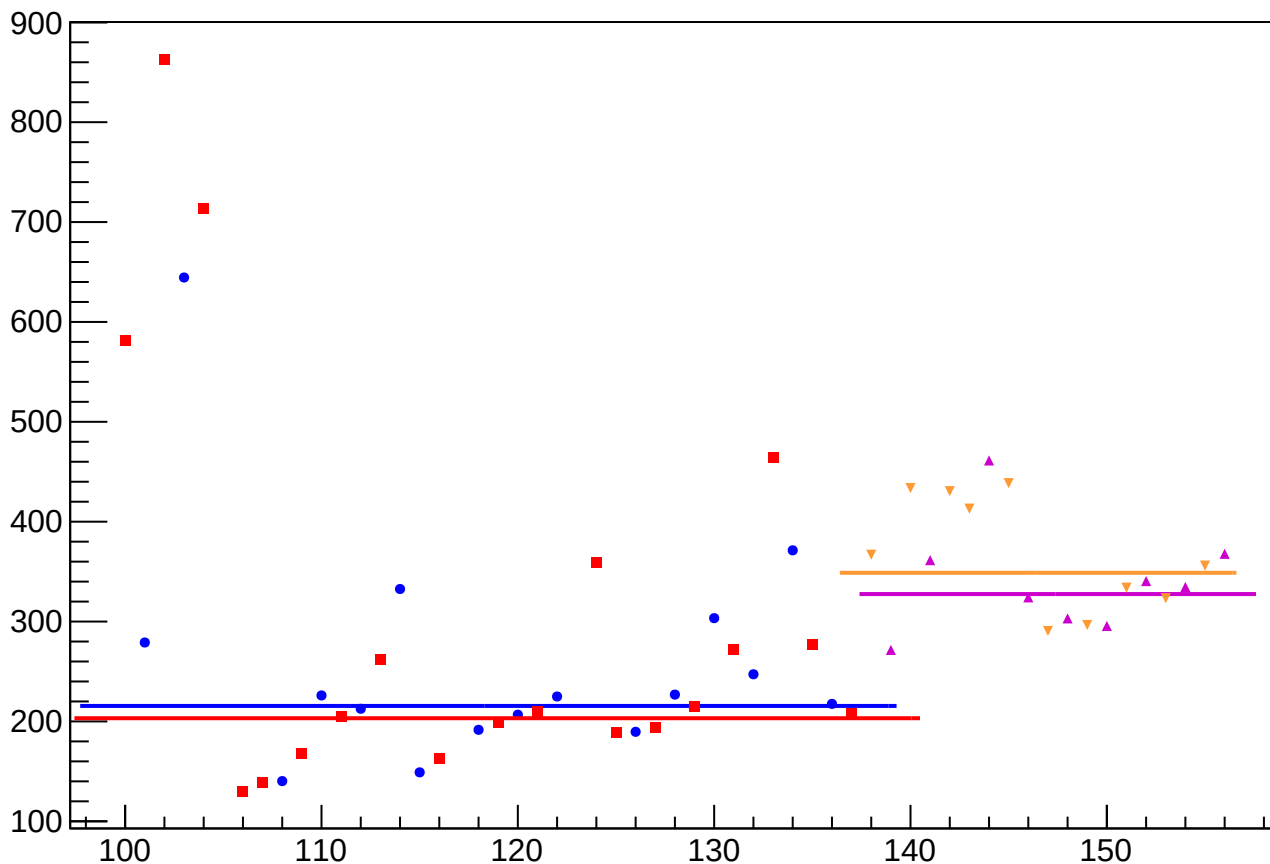
Right: 0.032 $\pm$ 0.060 χ^2/NDF : 37.9/34

In: -0.059 $\pm$ 0.069 χ^2/NDF : 22.9/24

Out: 0.128 $\pm$ 0.070 χ^2/NDF : 35.1/28

All: 0.034 $\pm$ 0.049 χ^2/NDF : 61.6/53

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.519+/-0.060 χ^2/NDF : 1148727.3/15

Left Out: 348.839+/-0.090 χ^2/NDF : 334272.1/9

Right Out: 203.207+/-0.059 χ^2/NDF : 1835552.6/18

Left In: 327.529+/-0.084 χ^2/NDF : 286968.9/8

Left: 337.499+/-0.061 χ^2/NDF : 651191.7/18

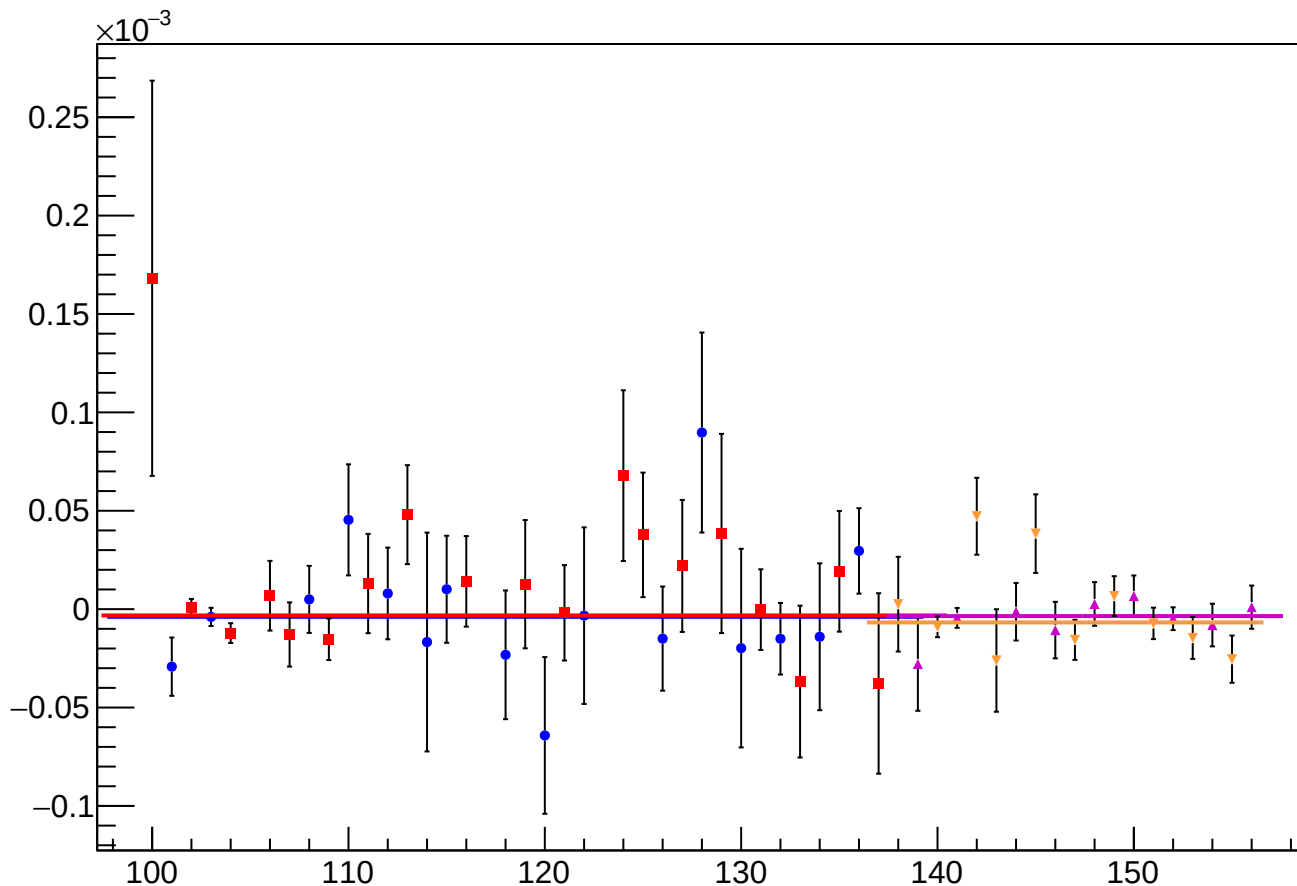
Right: 209.199+/-0.042 χ^2/NDF : 3005585.2/34

In: 253.590+/-0.049 χ^2/NDF : 2603211.7/24

Out: 246.936+/-0.049 χ^2/NDF : 4009093.9/28

All: 250.271+/-0.035 χ^2/NDF : 6621465.4/53

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 : 19.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.0/8

Left: -0.000+/-0.000 χ^2/NDF : 22.7/18

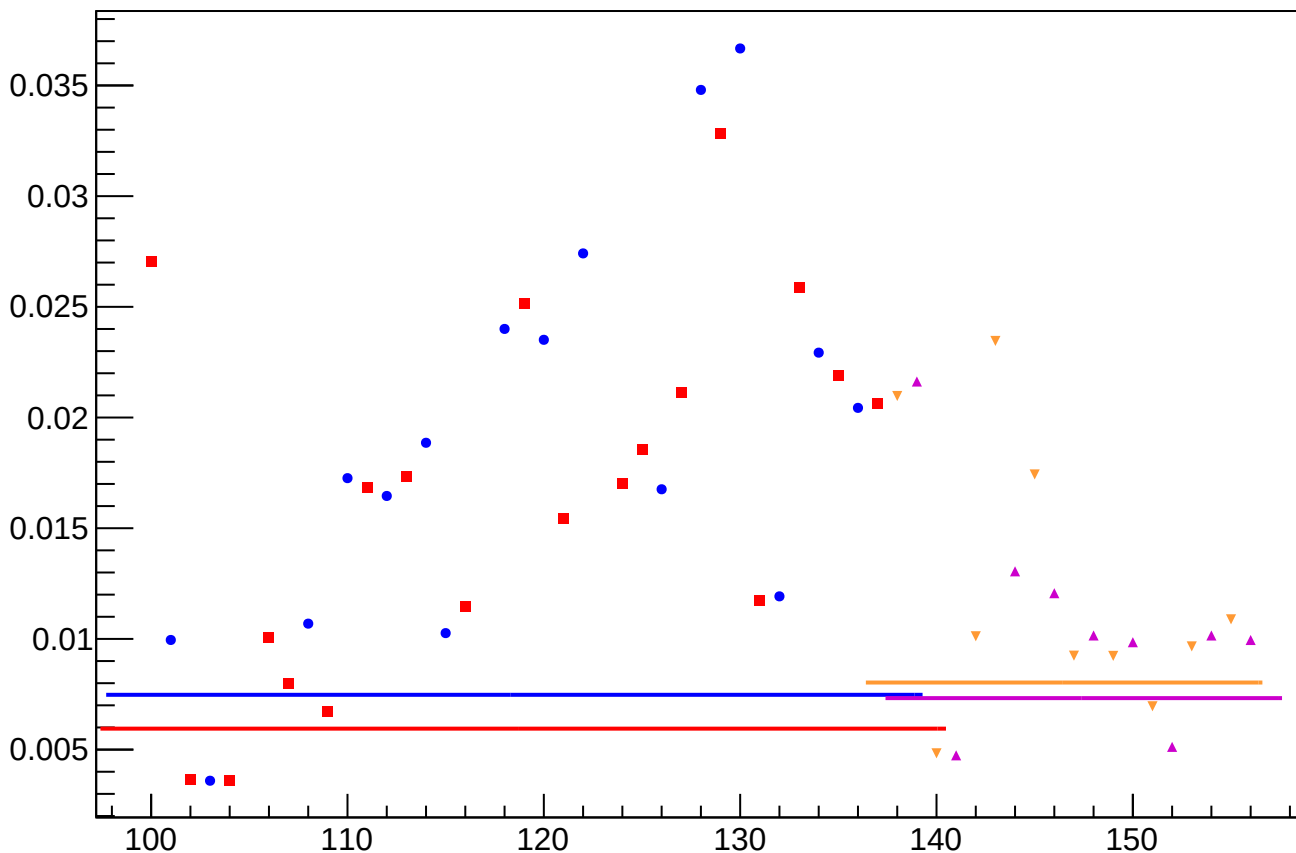
Right: -0.000+/-0.000 χ^2/NDF : 37.6/34

In: -0.000+/-0.000 χ^2/NDF : 19.0/24

Out: -0.000+/-0.000 χ^2/NDF : 41.4/28

All: -0.000+/-0.000 χ^2/NDF : 60.5/53

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: 0.008+/-0.000 χ^2/NDF : 2735315.9/9

Right Out: 0.006+/-0.000 χ^2/NDF : 5934015.2/18

Left In: 0.007+/-0.000 χ^2/NDF : 2558553.1/8

Left: 0.008+/-0.000 χ^2/NDF : 5345501.0/18

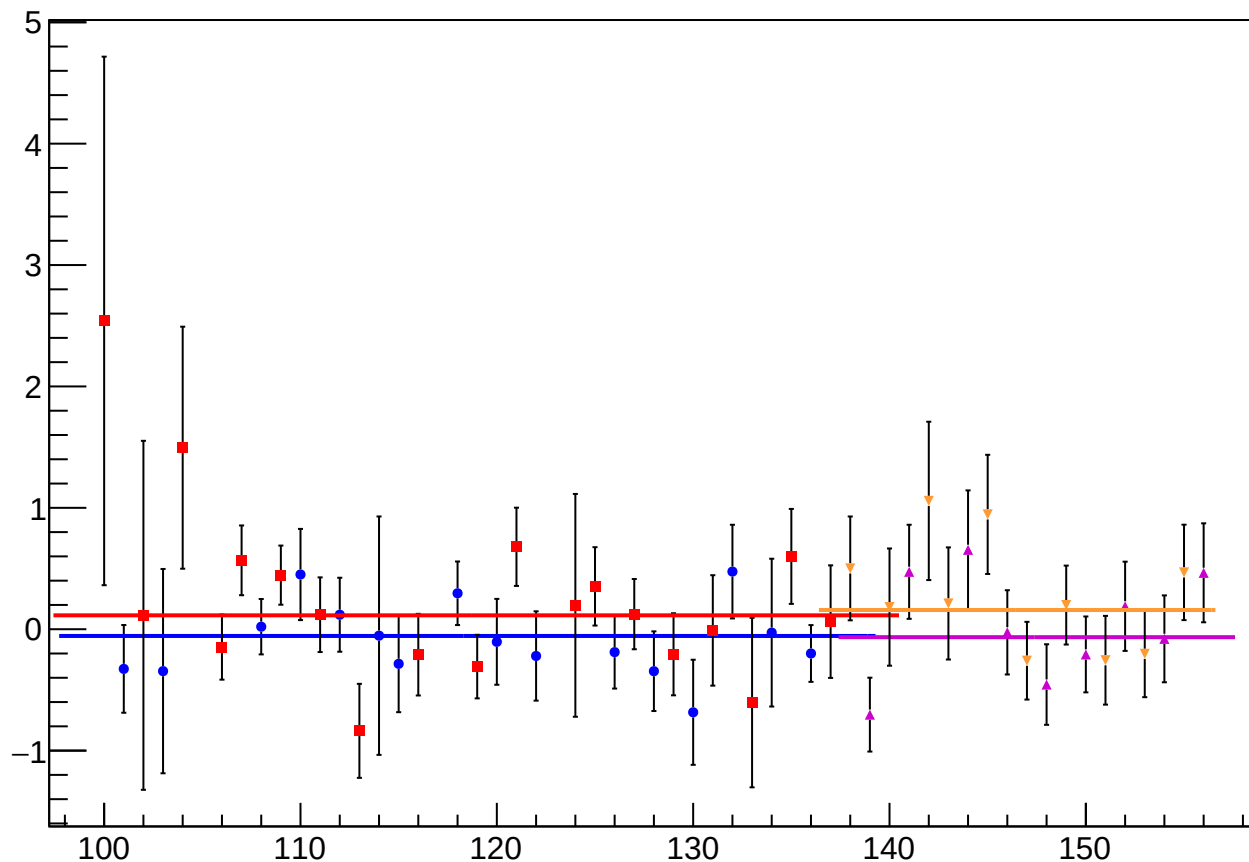
Right: 0.007+/-0.000 χ^2/NDF : 12215563.8/34

In: 0.007+/-0.000 χ^2/NDF : 8636695.8/24

Out: 0.007+/-0.000 χ^2/NDF : 9128828.8/28

All: 0.007+/-0.000 χ^2/NDF : 17817053.6/53

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: 0.158 ± 0.127 χ^2/NDF : 9.8/9

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.065 ± 0.119 χ^2/NDF : 12.3/8

Left: 0.039 ± 0.087 χ^2/NDF : 23.7/18

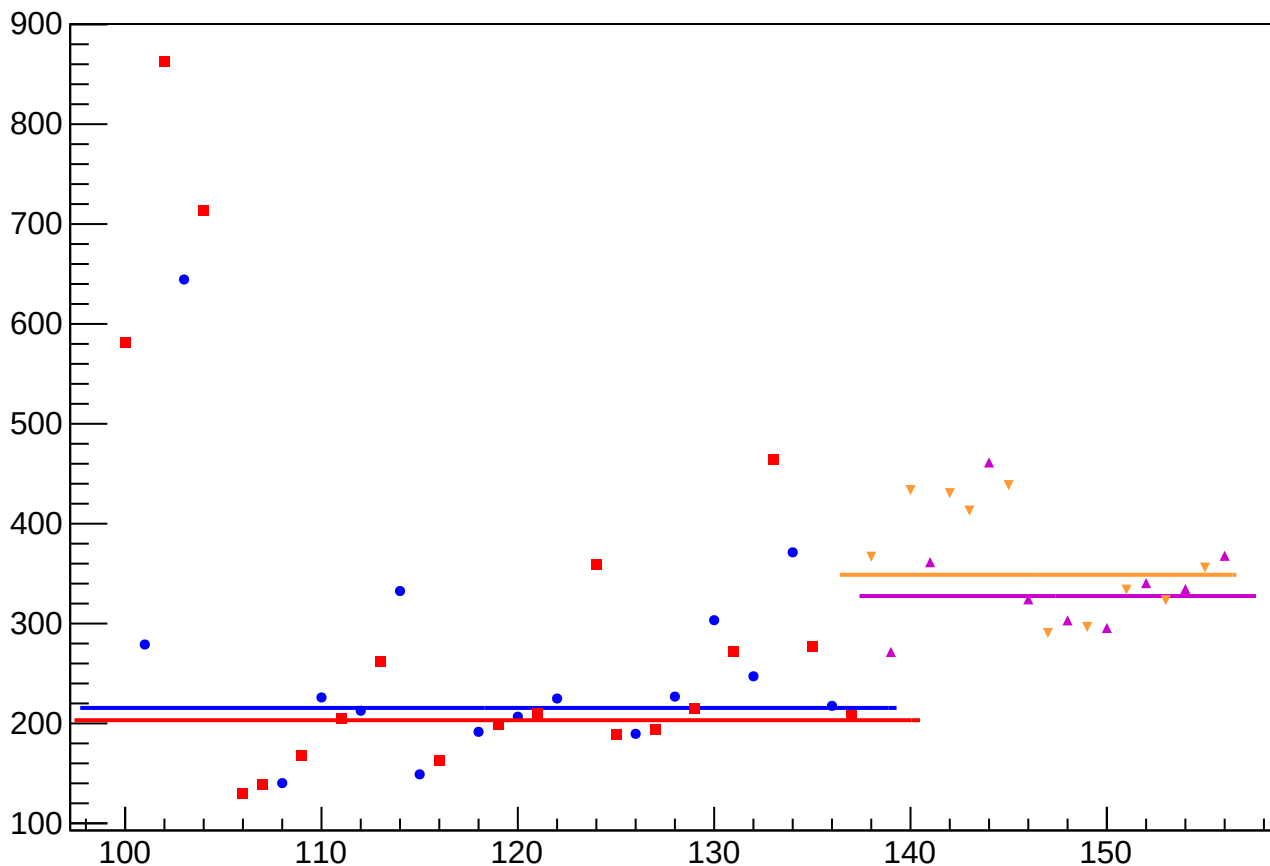
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.059 ± 0.069 χ^2/NDF : 22.9/24

Out: 0.128 ± 0.070 χ^2/NDF : 35.1/28

All: 0.034 ± 0.049 χ^2/NDF : 61.6/53

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: 348.844 $\pm$ 0.090 χ^2 /NDF:334263.3/9

Right Out: 203.205 $\pm$ 0.059 χ^2 /NDF: 1835535.5/18

Left In: 327.534 $\pm$ 0.084 χ^2 /NDF:286953.3/8

Left: 337.504 $\pm$ 0.061 χ^2 /NDF: 651166.7/18

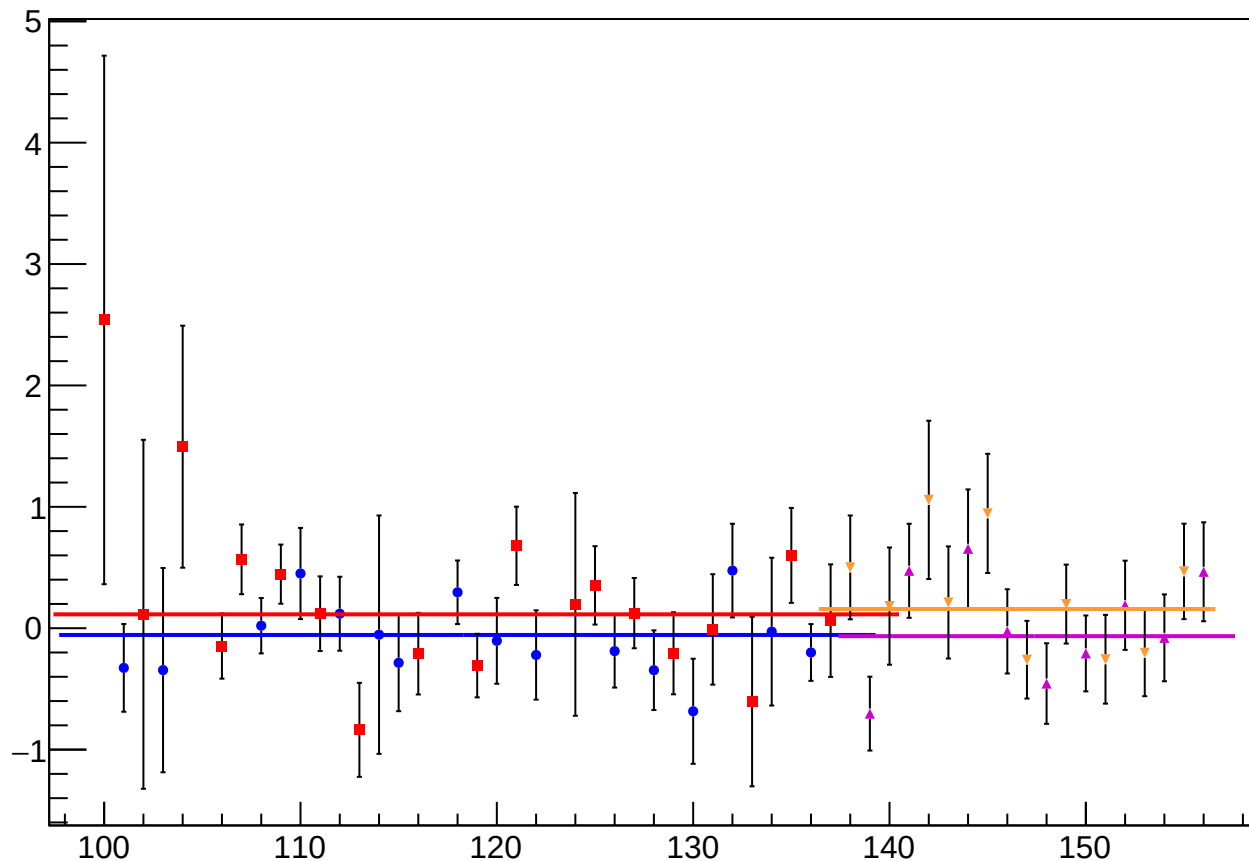
Right: 209.197 $\pm$ 0.042 χ^2 /NDF: 3005542.9/34

In: 253.590 $\pm$ 0.049 χ^2 /NDF:2603273.3/24

Out: 246.935 $\pm$ 0.049 χ^2 /NDF:4009196.3/28

All: 250.271 $\pm$ 0.035 χ^2 /NDF: 6621631.1/53

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: 0.158 ± 0.127 χ^2/NDF : 9.8/9

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.065 ± 0.119 χ^2/NDF : 12.3/8

Left: 0.039 ± 0.087 χ^2/NDF : 23.7/18

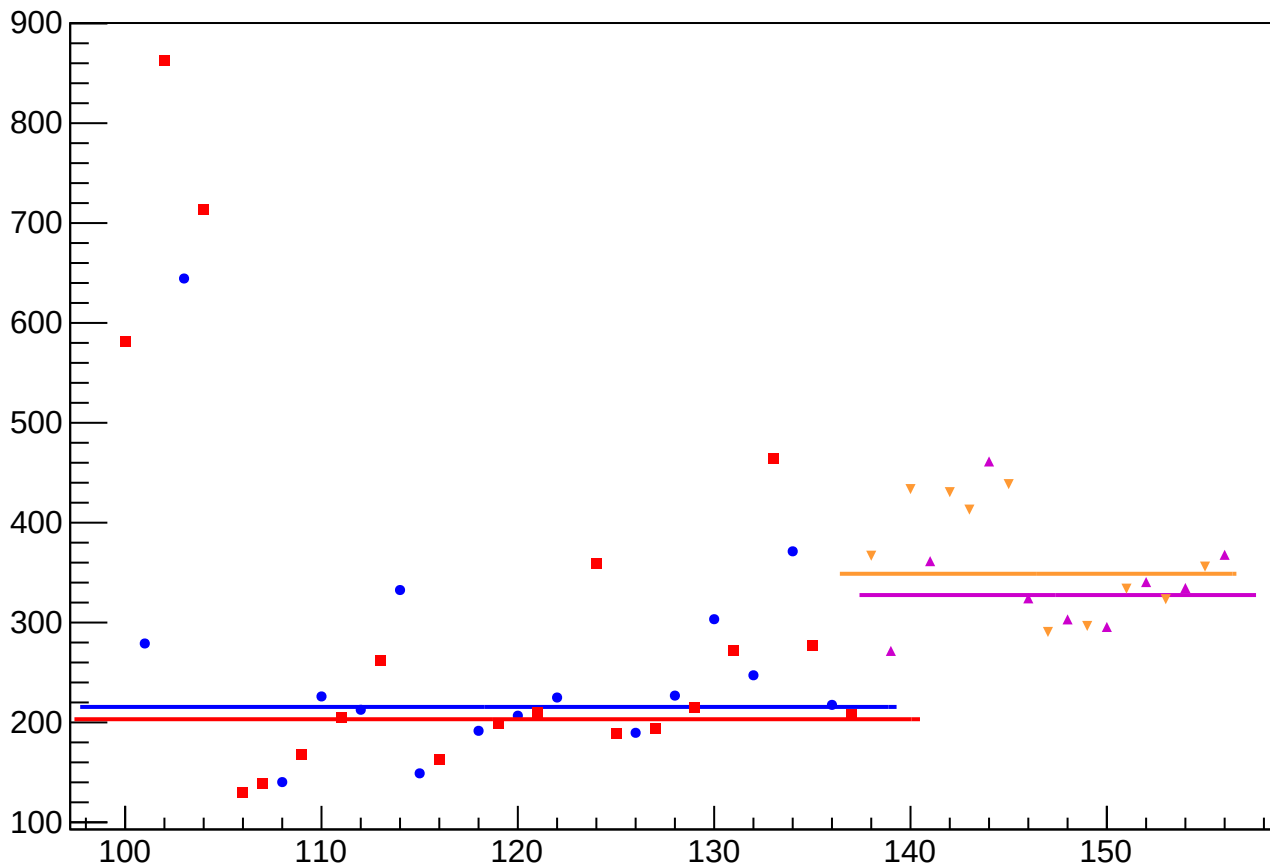
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.059 ± 0.069 χ^2/NDF : 22.9/24

Out: 0.128 ± 0.070 χ^2/NDF : 35.1/28

All: 0.034 ± 0.049 χ^2/NDF : 61.6/53

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.518+/-0.060 χ^2/NDF : 1148700.9/15

Left Out: 348.844+/-0.090 χ^2/NDF : 334263.3/9

Right Out: 203.205+/-0.059 χ^2/NDF : 1835535.5/18

Left In: 327.534+/-0.084 χ^2/NDF : 286953.3/8

Left: 337.504+/-0.061 χ^2/NDF : 651166.7/18

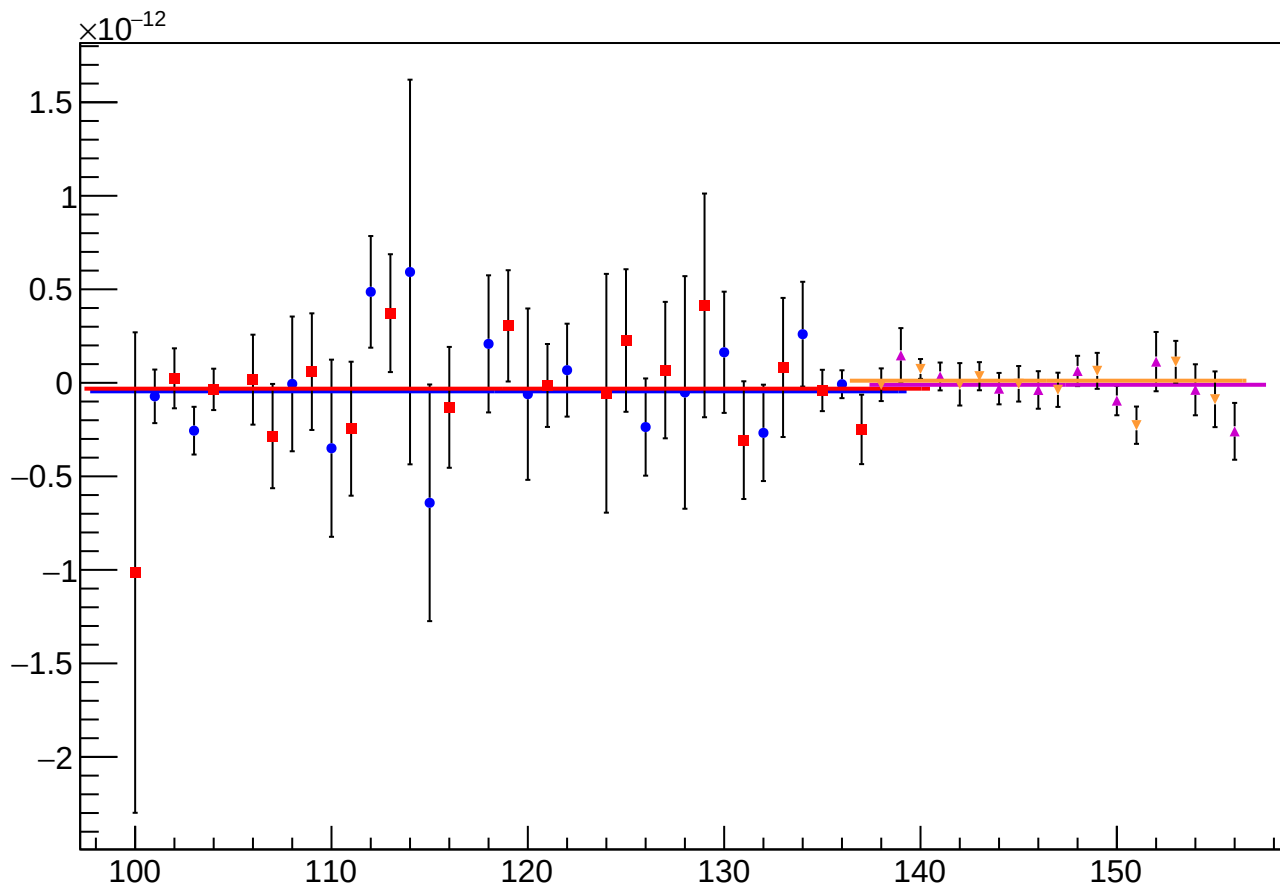
Right: 209.197+/-0.042 χ^2/NDF : 3005542.9/34

In: 253.590+/-0.049 χ^2/NDF : 2603273.3/24

Out: 246.935+/-0.049 χ^2/NDF : 4009196.3/28

All: 250.271+/-0.035 χ^2/NDF : 6621631.1/53

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 : 9.2/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 8.4/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.0/8

Left: 0.000 ± 0.000 χ^2/NDF : 16.4/18

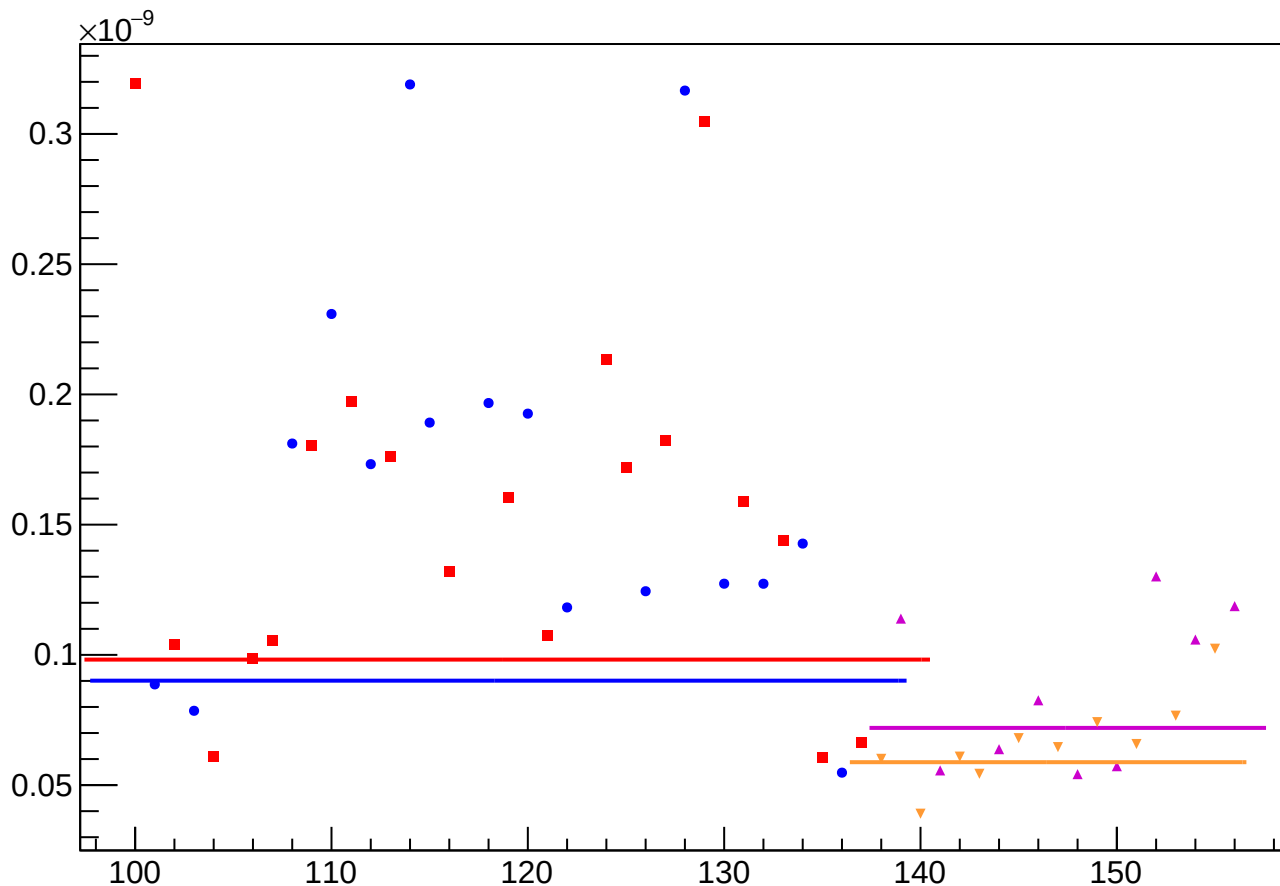
Right: -0.000 ± 0.000 χ^2/NDF : 19.9/34

In: -0.000 ± 0.000 χ^2/NDF : 18.8/24

Out: 0.000 ± 0.000 χ^2/NDF : 18.1/28

All: -0.000 ± 0.000 χ^2/NDF : 37.2/53

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 : 596186.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1694726.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1051955.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1835172.6/18

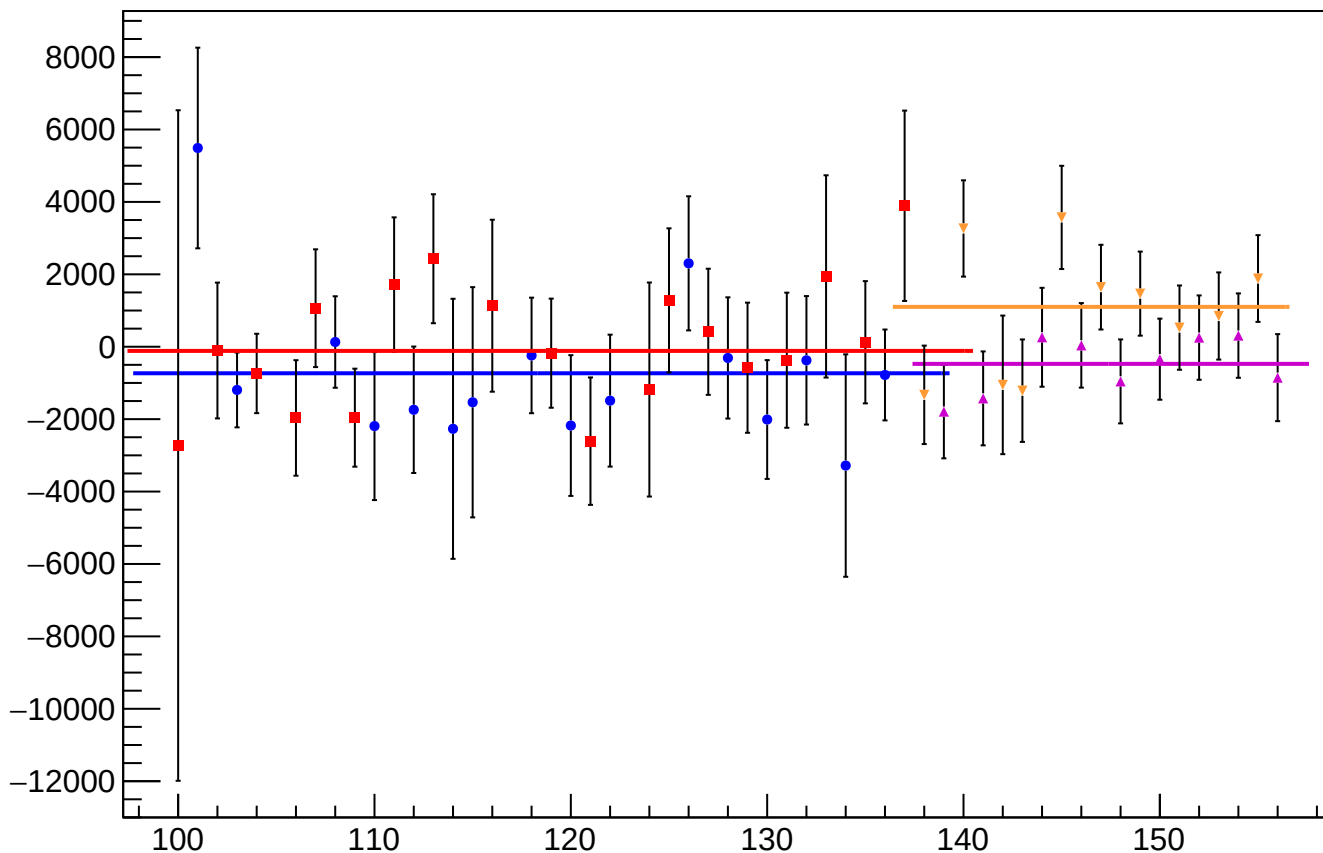
Right: 0.000+/-0.000 χ^2/NDF : 3527917.4/34

In: 0.000+/-0.000 χ^2/NDF : 3043490.7/24

Out: 0.000+/-0.000 χ^2/NDF : 3182887.9/28

All: 0.000+/-0.000 χ^2/NDF : 6373617.1/53

reg_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.747+/-427.384 χ^2/NDF : 11.7/15

Left Out: 1100.928+/-409.324 χ^2/NDF : 13.8/9

Right Out: -115.040+/-411.437 χ^2/NDF : 13.1/18

Left In: -473.331+/-402.544 χ^2/NDF : 3.2/8

Left: 300.651+/-287.009 χ^2/NDF : 24.5/18

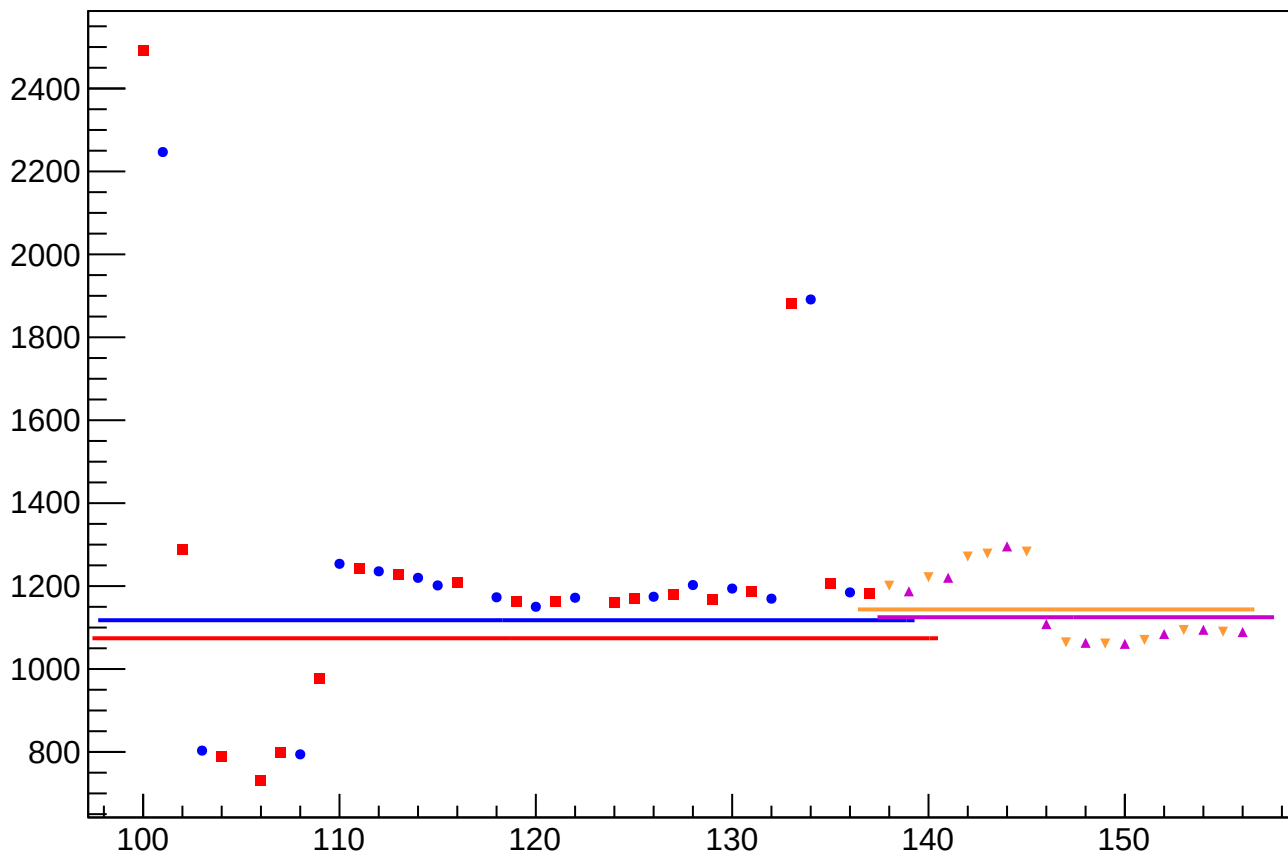
Right: -412.155+/-296.407 χ^2/NDF : 25.9/34

In: -595.282+/-293.030 χ^2/NDF : 15.1/24

Out: 496.074+/-290.180 χ^2/NDF : 31.3/28

All: -44.271+/-206.188 χ^2/NDF : 53.4/53

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: 1143.735 $\pm$ 0.289 χ^2 /NDF: 91164.3/9

Right Out: 1074.148 $\pm$ 0.289 χ^2 /NDF: 649508.4/18

Left In: 1124.890 $\pm$ 0.285 χ^2 /NDF: 64915.9/8

Left: 1134.155 $\pm$ 0.203 χ^2 /NDF: 158235.3/18

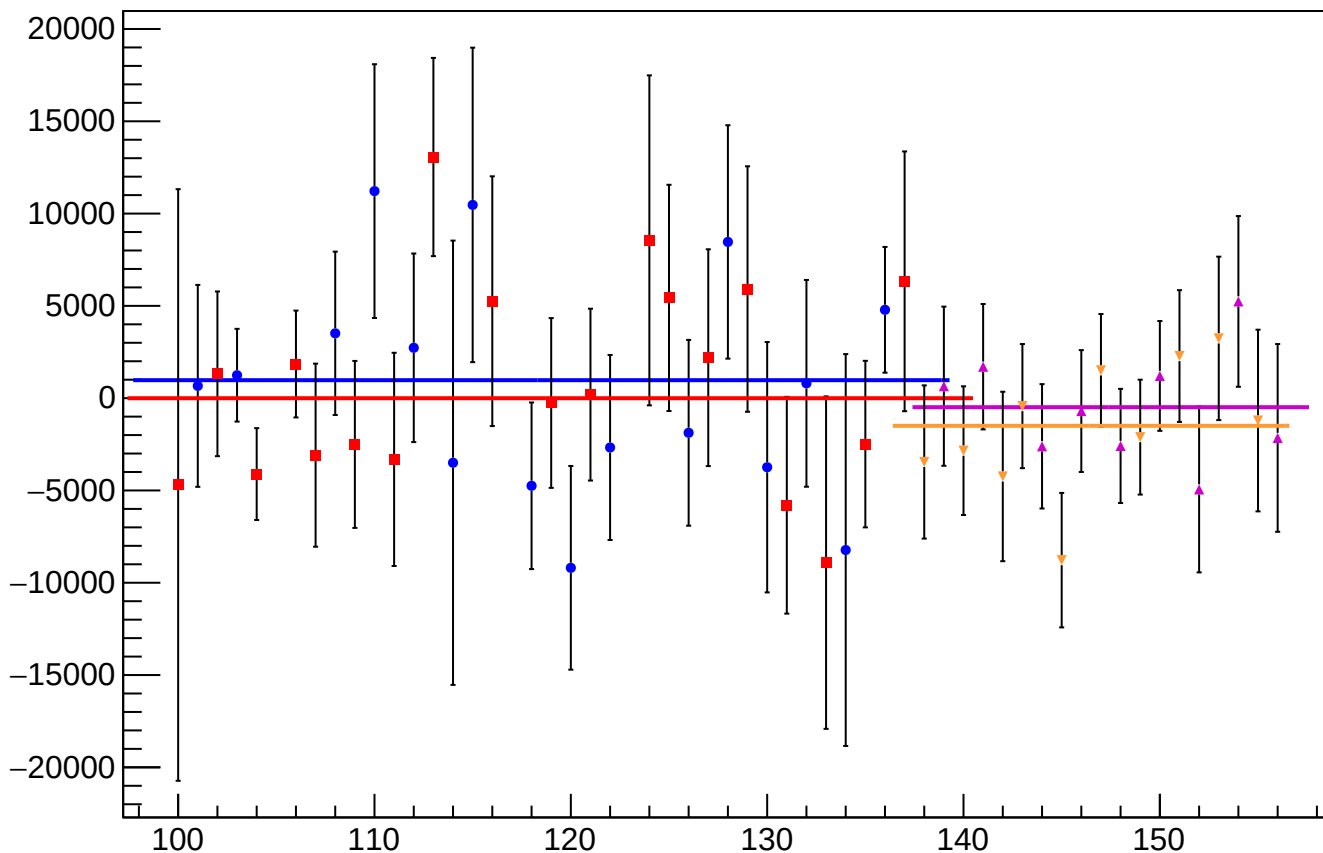
Right: 1094.908 $\pm$ 0.209 χ^2 /NDF: 1480200.6/34

In: 1121.502 $\pm$ 0.207 χ^2 /NDF: 885052.3/24

Out: 1108.831 $\pm$ 0.204 χ^2 /NDF: 769665.9/28

All: 1115.079 $\pm$ 0.145 χ^2 /NDF: 1656614.1/53

asym_usr_atr2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 973.755 ± 1232.754 χ^2/NDF : 13.8/15

Left Out: -1497.025 ± 1168.040 χ^2/NDF : 8.1/9

Right Out: -2.885 ± 1113.897 χ^2/NDF : 16.6/18

Left In: -488.805 ± 1219.174 χ^2/NDF : 4.3/8

Left: -1014.501 ± 843.427 χ^2/NDF : 12.8/18

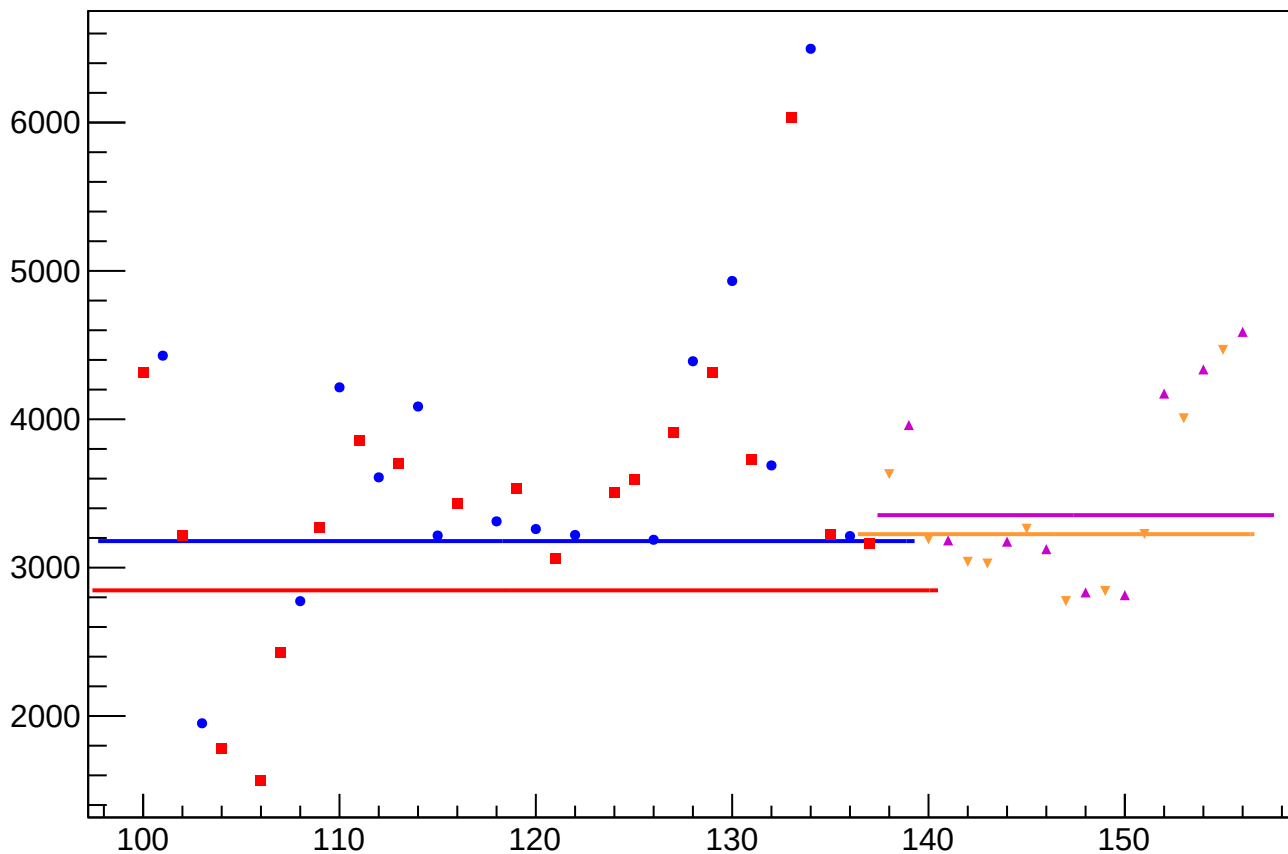
Right: 436.095 ± 826.478 χ^2/NDF : 30.7/34

In: 234.375 ± 866.847 χ^2/NDF : 18.8/24

Out: -714.524 ± 806.106 χ^2/NDF : 25.5/28

All: -274.482 ± 590.310 χ^2/NDF : 45.0/53

asym_usr_atr2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3178.870 ± 0.872 $\chi^2/\text{NDF}: 1091676.8/15$

Left Out: 3225.682 ± 0.826 $\chi^2/\text{NDF}: 293326.8/9$

Right Out: 2847.016 ± 0.788 $\chi^2/\text{NDF}: 1511160.9/18$

Left In: 3353.845 ± 0.862 $\chi^2/\text{NDF}: 457039.4/8$

Left: 3287.019 ± 0.596 $\chi^2/\text{NDF}: 761890.1/18$

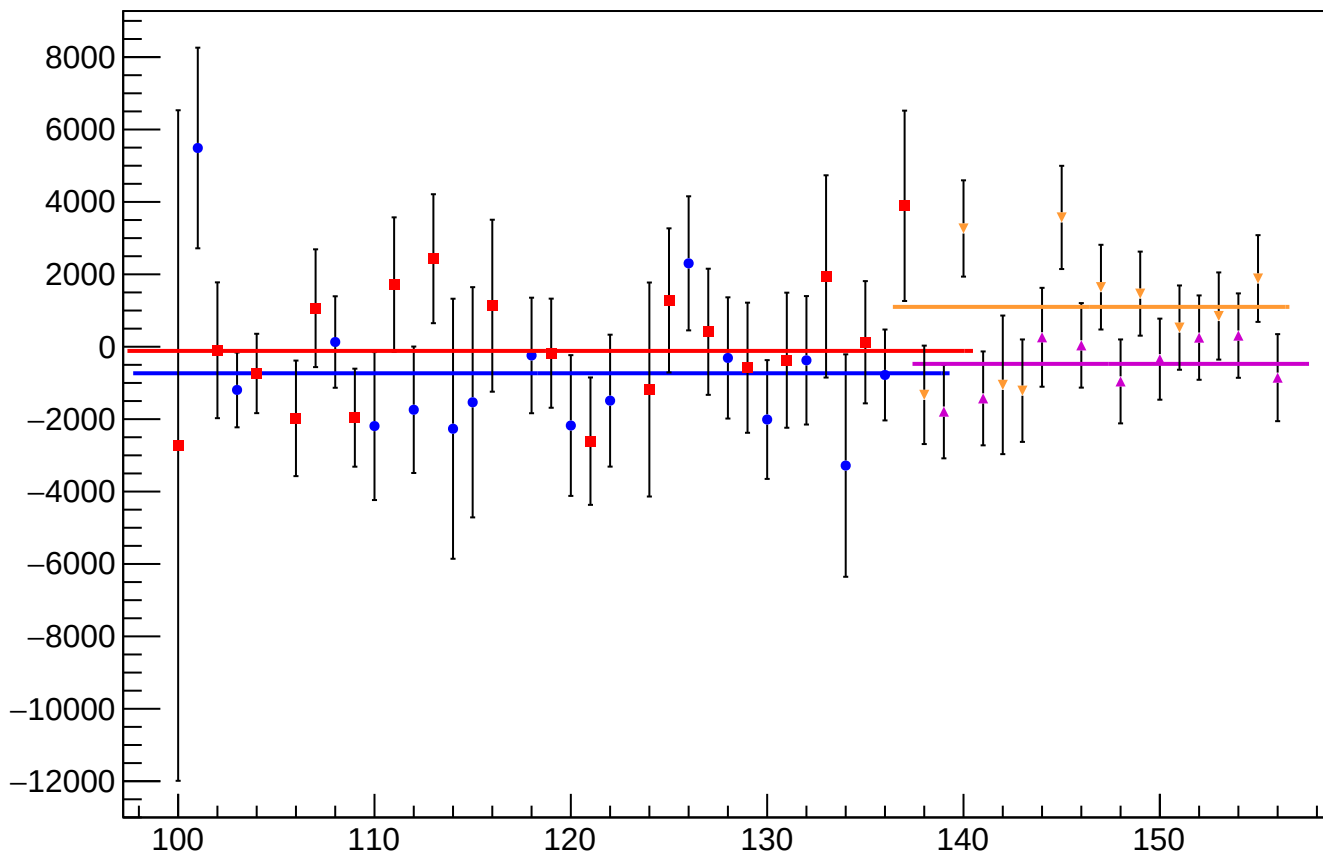
Right: 2996.178 ± 0.584 $\chi^2/\text{NDF}: 2682627.1/34$

In: 3267.326 ± 0.613 $\chi^2/\text{NDF}: 1569085.8/24$

Out: 3027.369 ± 0.570 $\chi^2/\text{NDF}: 1914570.7/28$

All: 3138.647 ± 0.417 $\chi^2/\text{NDF}: 3565840.5/53$

cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.682+/-427.385 χ^2/NDF : 11.7/15

Left Out: 1100.940+/-409.324 χ^2/NDF : 13.8/9

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -473.352+/-402.544 χ^2/NDF : 3.2/8

Left: 300.647+/-287.009 χ^2/NDF : 24.5/18

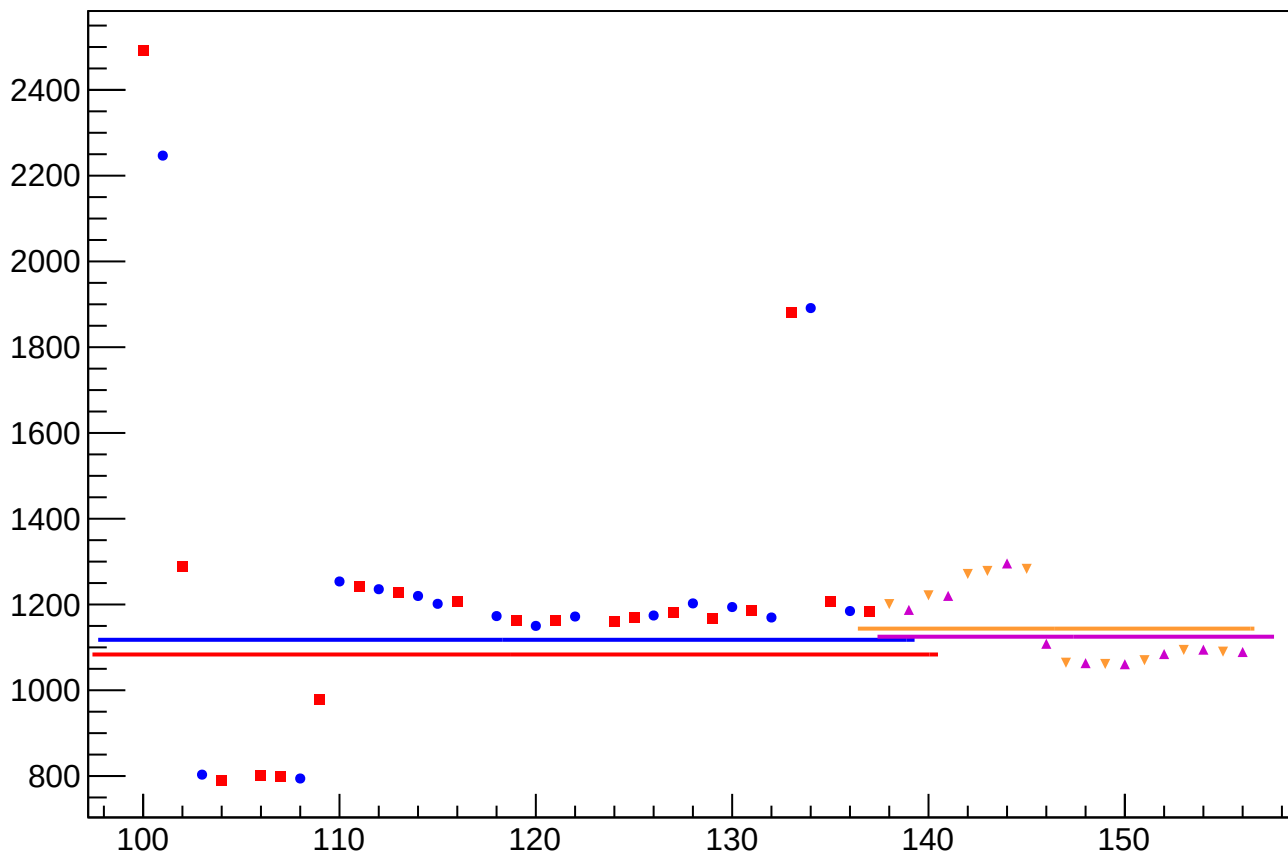
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -595.262+/-293.030 χ^2/NDF : 15.1/24

Out: 495.954+/-290.182 χ^2/NDF : 31.3/28

All: -44.325+/-206.189 χ^2/NDF : 53.4/53

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: 1143.735 $\pm$ 0.289 χ^2 /NDF:91164.3/9

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1124.890 $\pm$ 0.285 χ^2 /NDF:64915.9/8

Left: 1134.155 $\pm$ 0.203 χ^2 /NDF: 158235.3/18

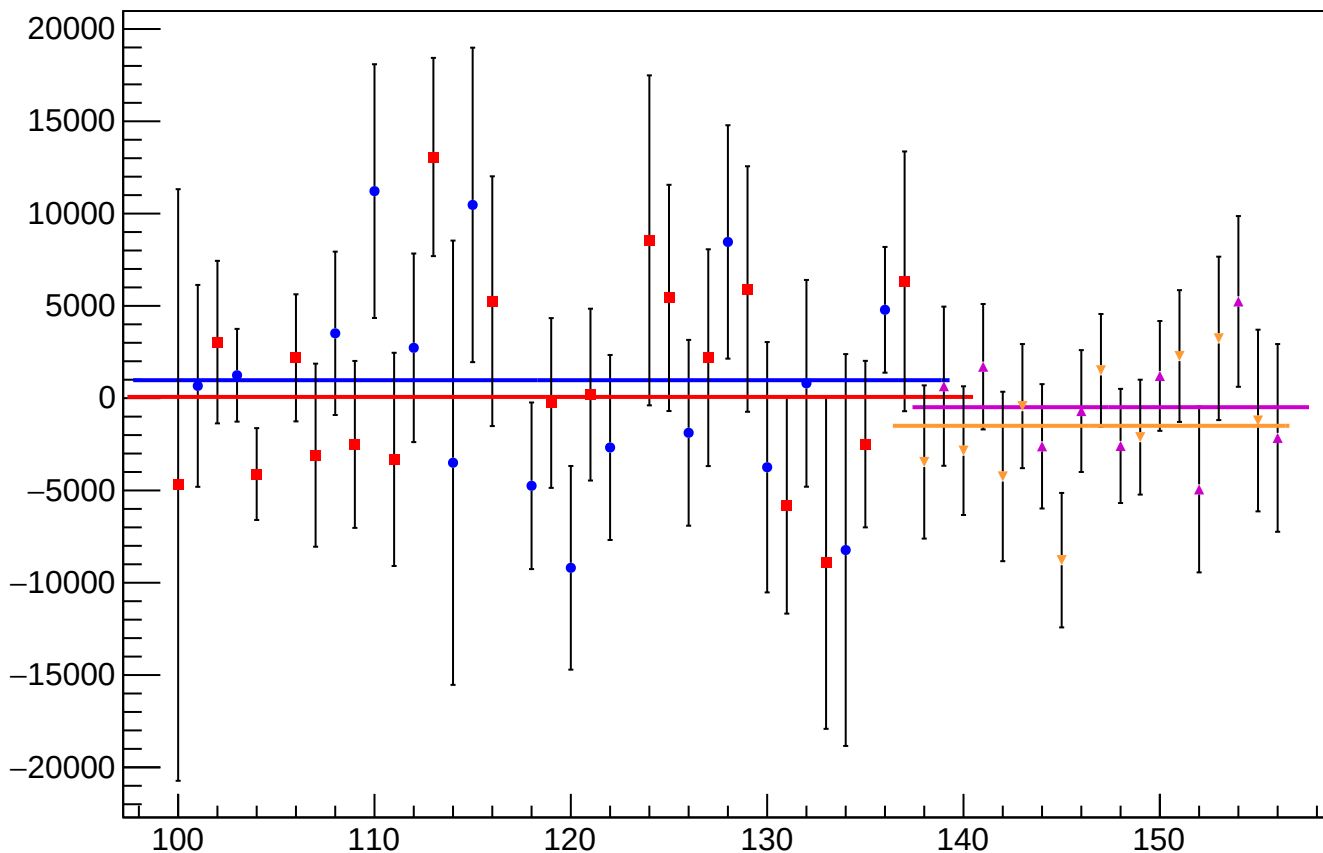
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1121.503 $\pm$ 0.207 χ^2 /NDF:885048.9/24

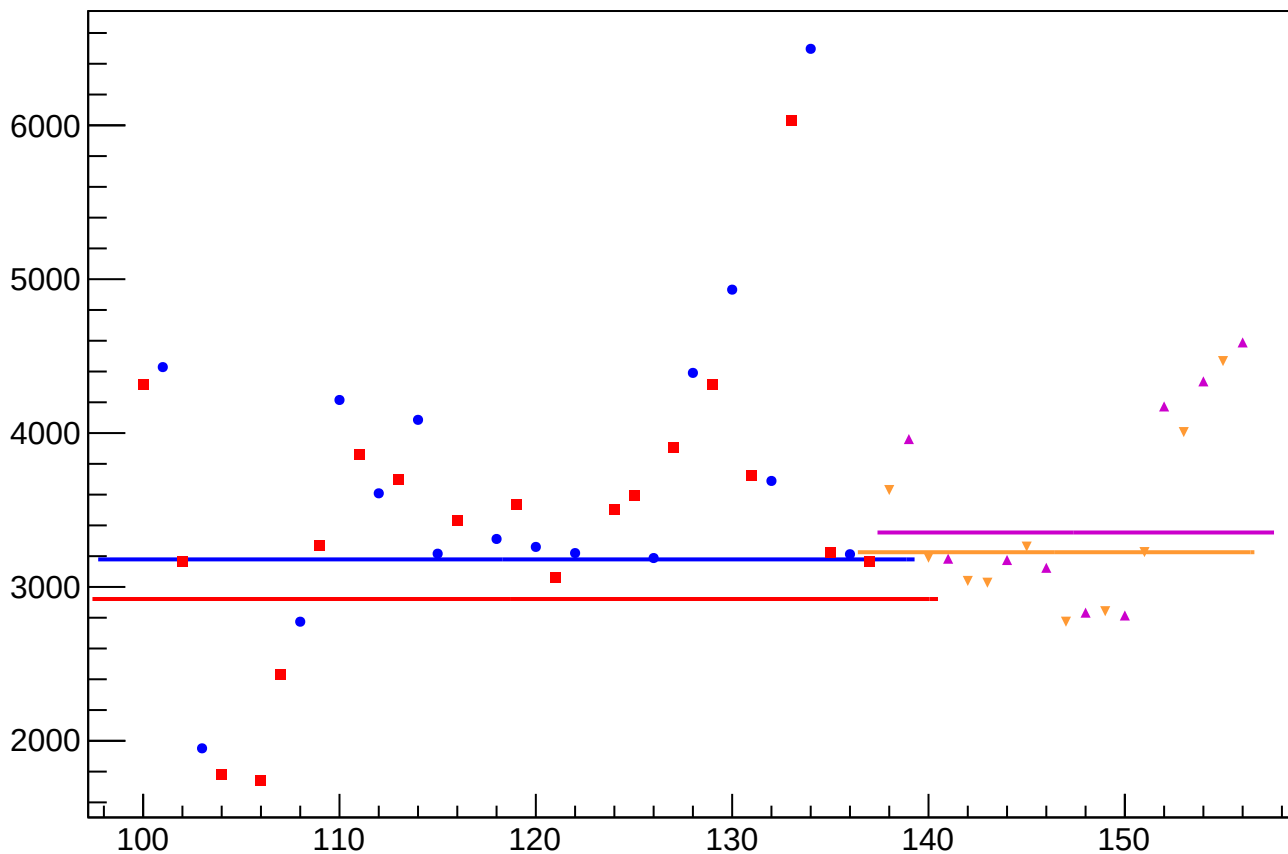
Out: 1113.675 $\pm$ 0.205 χ^2 /NDF:707822.9/28

All: 1117.547 $\pm$ 0.146 χ^2 /NDF: 1593592.9/53

asym_usr_atr2_dd_cor_correction_mean vs Slug, Sign Corrected



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: 3225.677 $\pm$ 0.826 χ^2 /NDF: 293331.9/9

Right Out: 2921.641 $\pm$ 0.805 χ^2 /NDF: 1312890.1/18

Left In: 3353.844 $\pm$ 0.862 χ^2 /NDF: 457042.6/8

Left: 3287.016 $\pm$ 0.596 χ^2 /NDF: 761899.2/18

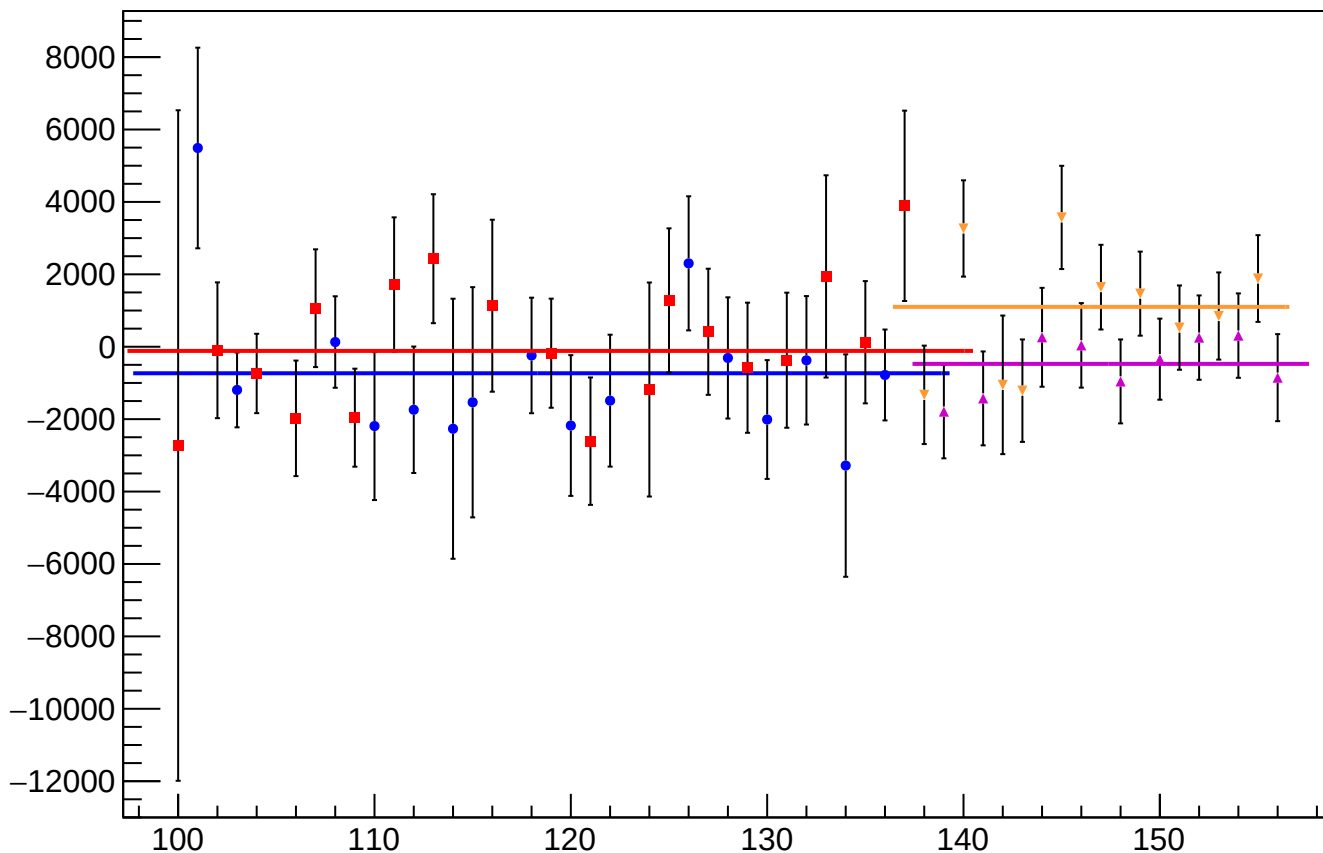
Right: 3040.058 $\pm$ 0.591 χ^2 /NDF: 2451210.8/34

In: 3267.420 $\pm$ 0.613 χ^2 /NDF: 1568604.9/24

Out: 3069.685 $\pm$ 0.576 χ^2 /NDF: 1675747.6/28

All: 3162.468 $\pm$ 0.420 χ^2 /NDF: 3299586.2/53

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: 1100.940+/-409.324 χ^2/NDF :13.8/9

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -473.352+/-402.544 χ^2/NDF :3.2/8

Left: 300.647+/-287.009 χ^2/NDF : 24.5/18

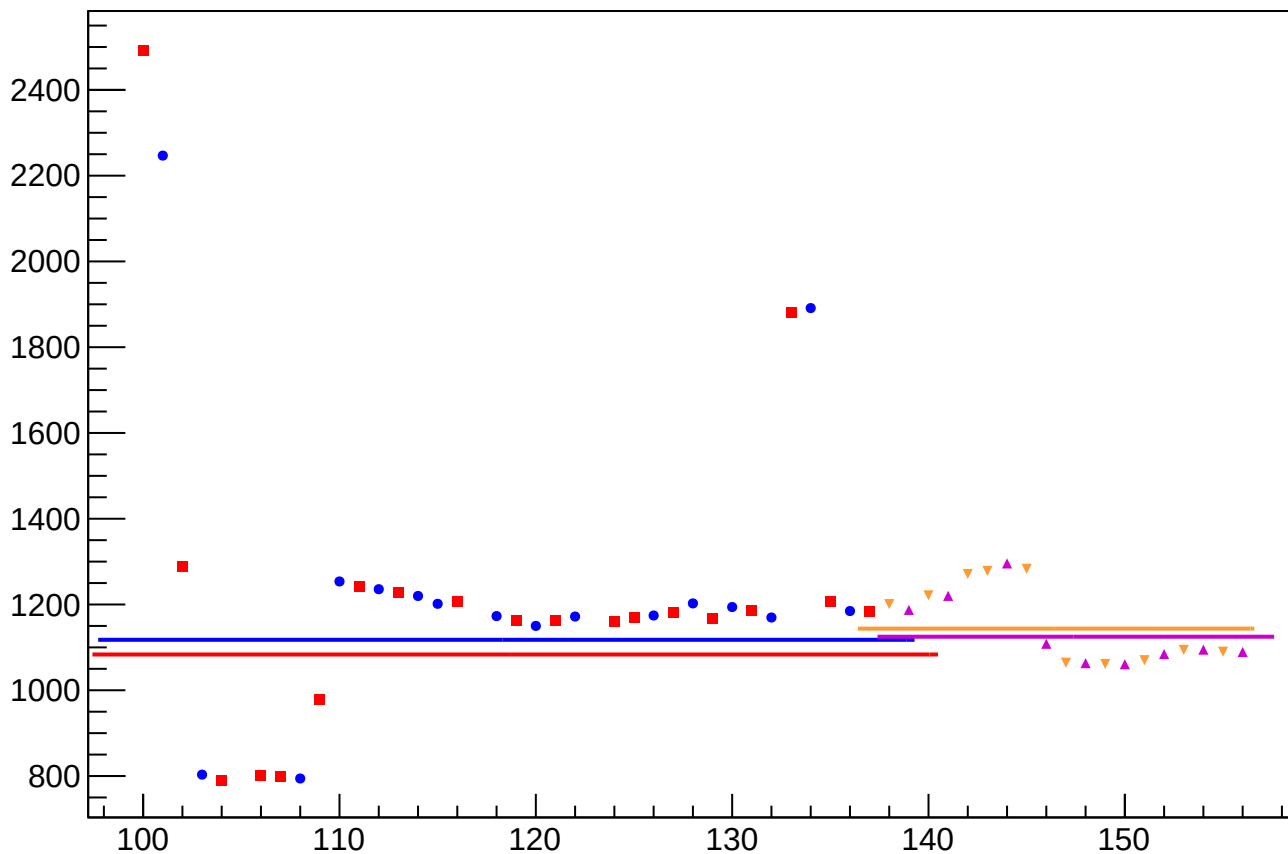
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -595.262+/-293.030 χ^2/NDF :15.1/24

Out: 495.954+/-290.182 χ^2/NDF :31.3/28

All: -44.325+/-206.189 χ^2/NDF : 53.4/53

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: 1143.735 $\pm$ 0.289 χ^2 /NDF:91164.3/9

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1124.890 $\pm$ 0.285 χ^2 /NDF:64915.9/8

Left: 1134.155 $\pm$ 0.203 χ^2 /NDF: 158235.3/18

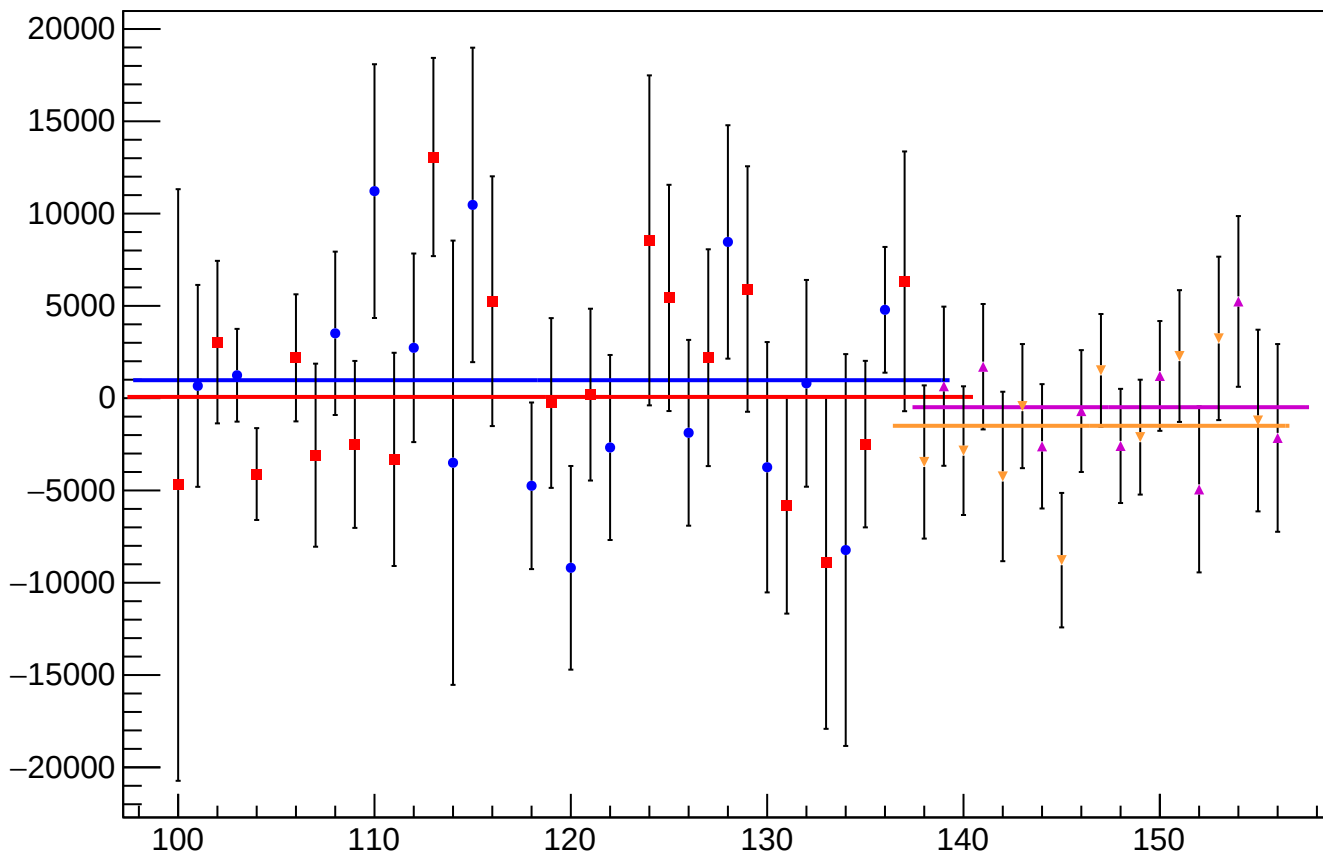
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1121.503 $\pm$ 0.207 χ^2 /NDF:885048.9/24

Out: 1113.675 $\pm$ 0.205 χ^2 /NDF:707822.9/28

All: 1117.547 $\pm$ 0.146 χ^2 /NDF: 1593592.9/53

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: -1497.019+/-1168.039 χ^2/NDF : 8.1/9

Right Out: 67.113+/-1137.892 χ^2/NDF : 16.9/18

Left In: -488.837+/-1219.174 χ^2/NDF : 4.3/8

Left: -1014.514+/-843.426 χ^2/NDF : 12.8/18

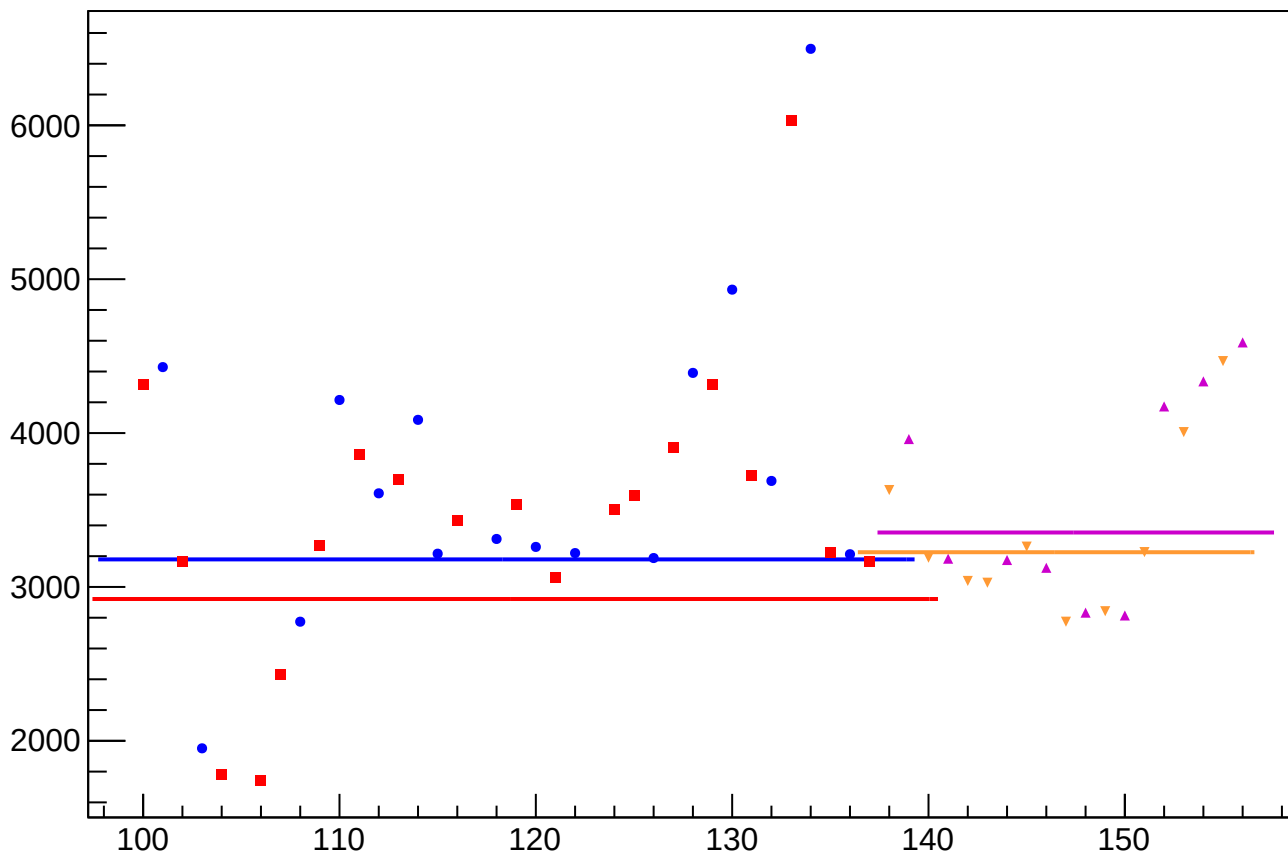
Right: 483.965+/-836.154 χ^2/NDF : 31.0/34

In: 234.083+/-866.865 χ^2/NDF : 18.8/24

Out: -694.507+/-815.061 χ^2/NDF : 26.0/28

All: -258.786+/-593.805 χ^2/NDF : 45.4/53

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: 3225.677+/-0.826

χ^2/NDF : 293331.9/9

Right Out: 2921.641+/-0.805

χ^2/NDF : 1312890.1/18

Left In: 3353.844+/-0.862

χ^2/NDF : 457042.6/8

Left: 3287.016+/-0.596 χ^2/NDF : 761899.2/18

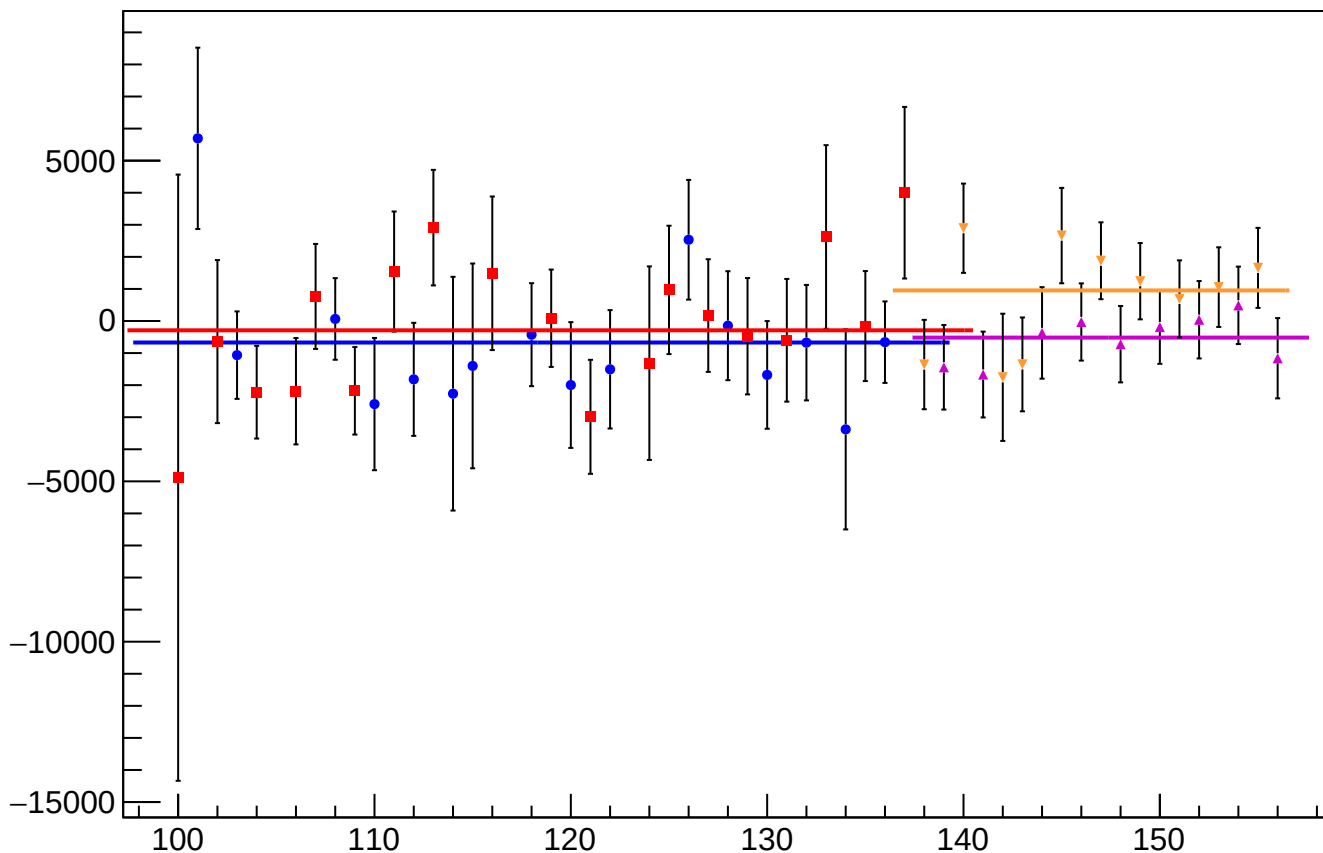
Right: 3040.058+/-0.591 χ^2/NDF : 2451210.8/34

In: 3267.420+/-0.613 χ^2/NDF : 1568604.9/24

Out: 3069.685+/-0.576 χ^2/NDF : 1675747.6/28

All: 3162.468+/-0.420 χ^2/NDF : 3299586.2/53

dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -670.819+/-448.500 χ^2/NDF : 11.9/15

Left Out: 953.525+/-422.927 χ^2/NDF : 11.4/9

Right Out: -290.311+/-434.425 χ^2/NDF : 16.9/18

Left In: -517.701+/-415.625 χ^2/NDF : 2.7/8

Left: 205.101+/-296.439 χ^2/NDF : 20.2/18

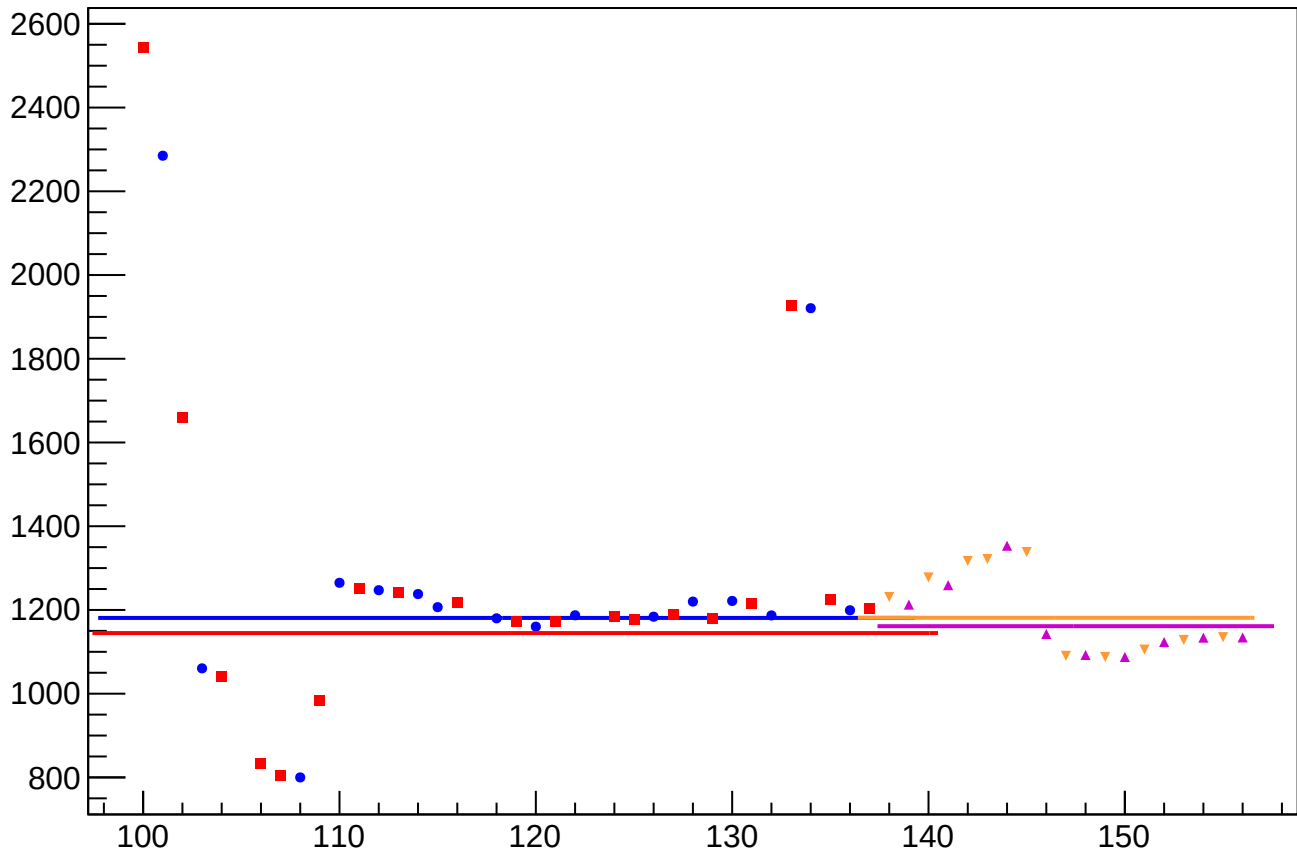
Right: -474.501+/-312.042 χ^2/NDF : 29.2/34

In: -588.443+/-304.852 χ^2/NDF : 14.6/24

Out: 348.284+/-303.038 χ^2/NDF : 32.5/28

All: -117.285+/-214.919 χ^2/NDF : 51.9/53

dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1180.955+/-0.317 χ^2/NDF : 621878.6/15

Left Out: 1181.314+/-0.299 χ^2/NDF :100460.6/9

Right Out: 1144.777+/-0.307 χ^2/NDF : 497730.6/18

Left In: 1161.223+/-0.294 χ^2/NDF :69321.9/8

Left: 1171.094+/-0.210 χ^2/NDF : 172078.5/18

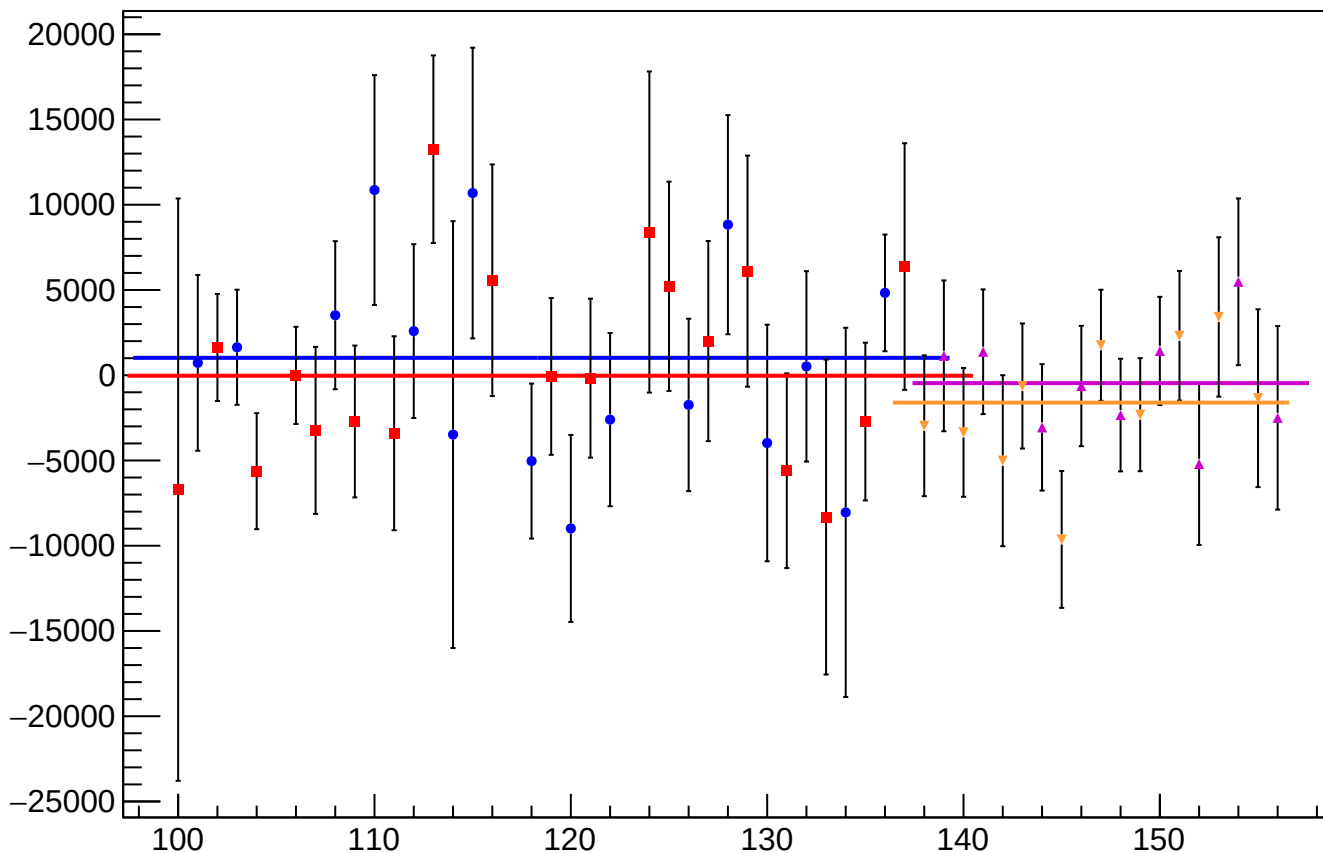
Right: 1162.281+/-0.221 χ^2/NDF : 1126326.7/34

In: 1170.340+/-0.216 χ^2/NDF :693283.3/24

Out: 1163.527+/-0.214 χ^2/NDF :605458.1/28

All: 1166.912+/-0.152 χ^2/NDF : 1299243.8/53

asym_usr_atr2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1021.047+/-1302.431 χ^2/NDF : 13.9/15

Left Out: -1605.941+/-1248.370 χ^2/NDF : 8.2/9

Right Out: -30.135+/-1130.743 χ^2/NDF : 16.1/18

Left In: -460.576+/-1301.288 χ^2/NDF : 4.2/8

Left: -1057.020+/-900.858 χ^2/NDF : 12.8/18

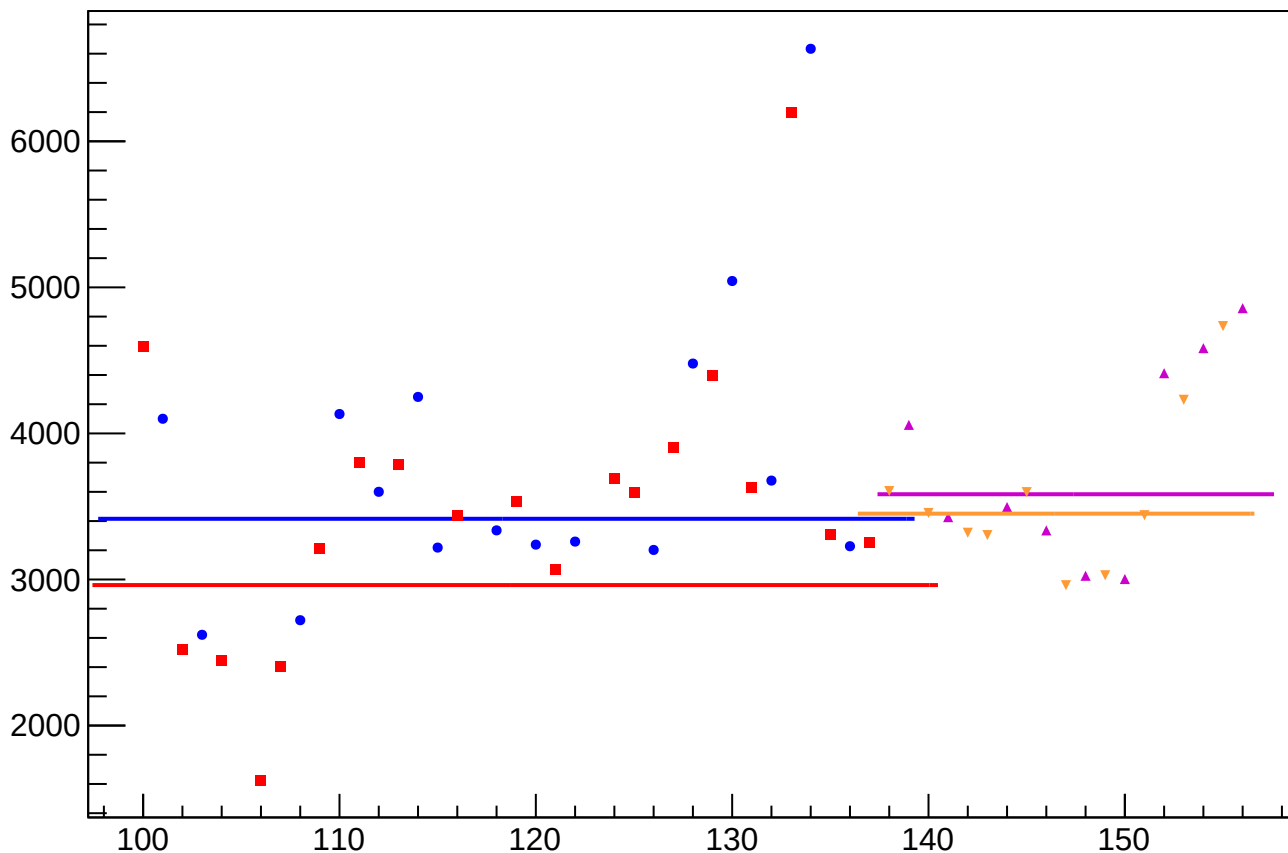
Right: 421.650+/-853.851 χ^2/NDF : 30.4/34

In: 279.585+/-920.553 χ^2/NDF : 18.7/24

Out: -740.318+/-838.063 χ^2/NDF : 25.2/28

All: -278.101+/-619.716 χ^2/NDF : 44.6/53

asym_usr_atr2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.595+/-0.921 χ^2/NDF : 592344.0/15

Left Out: 3450.780+/-0.883 χ^2/NDF : 264562.2/9

Right Out: 2961.798+/-0.800 χ^2/NDF : 1169257.4/18

Left In: 3583.673+/-0.920 χ^2/NDF : 418259.0/8

Left: 3514.470+/-0.637 χ^2/NDF : 693683.3/18

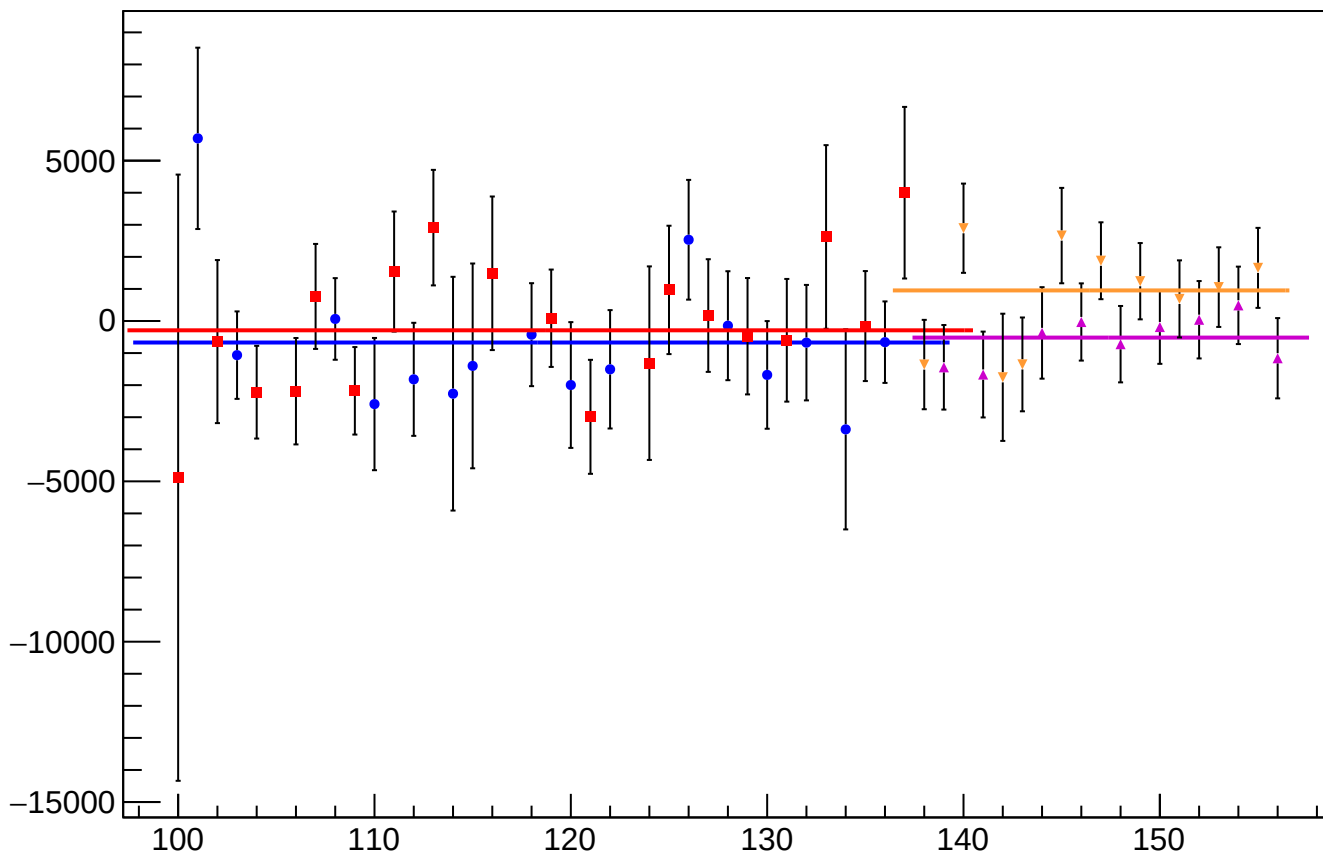
Right: 3156.834+/-0.604 χ^2/NDF : 1900046.9/34

In: 3499.708+/-0.651 χ^2/NDF : 1027271.4/24

Out: 3182.172+/-0.593 χ^2/NDF : 1602379.8/28

All: 3326.078+/-0.438 χ^2/NDF : 2759772.5/53

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: 953.530 ± 422.927 χ^2/NDF : 11.4/9

Right Out: -290.316 ± 434.425 χ^2/NDF : 16.9/18

Left In: -517.697 ± 415.625 χ^2/NDF : 2.7/8

Left: 205.106 ± 296.439 χ^2/NDF : 20.2/18

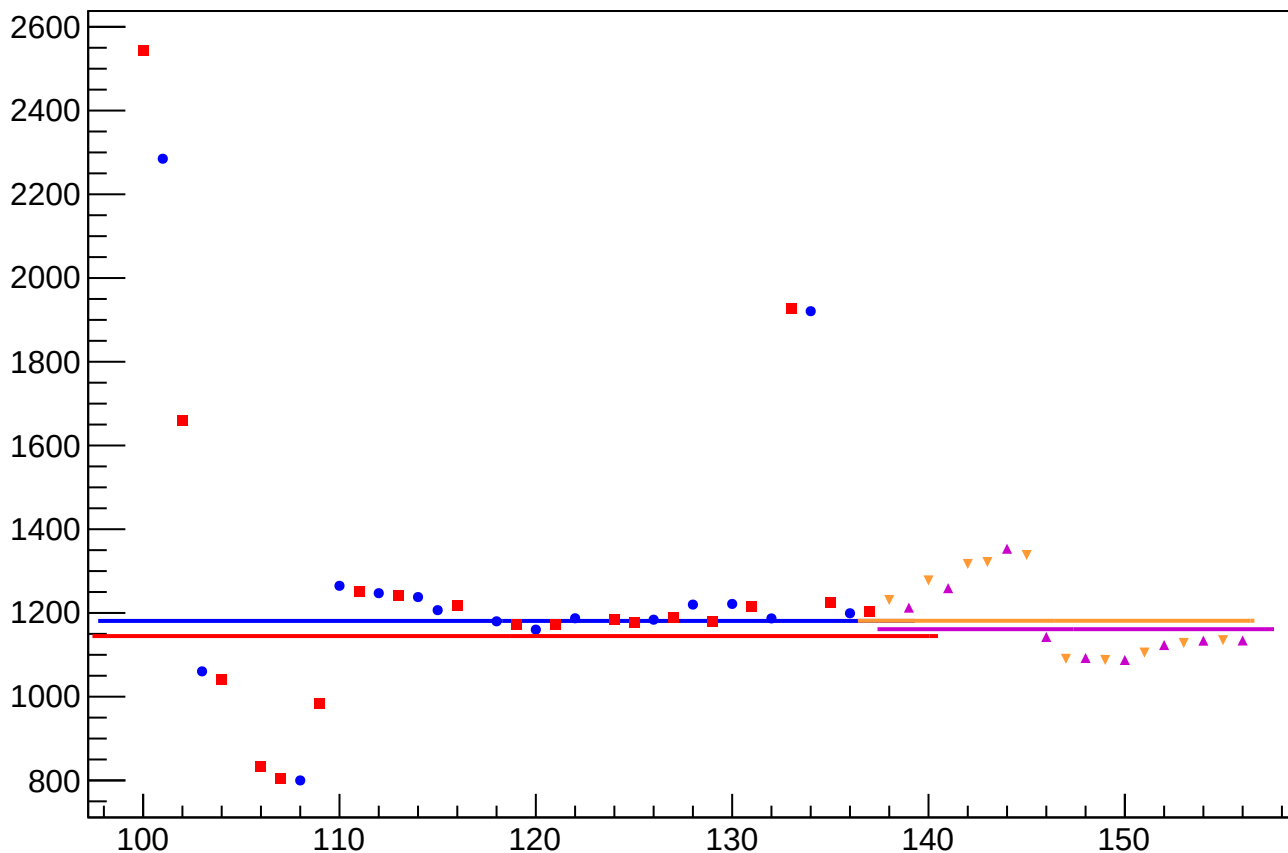
Right: -474.506 ± 312.042 χ^2/NDF : 29.2/34

In: -588.443 ± 304.852 χ^2/NDF : 14.6/24

Out: 348.284 ± 303.038 χ^2/NDF : 32.5/28

All: -117.285 ± 214.919 χ^2/NDF : 51.9/53

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: 1181.315+/-0.299 χ^2/NDF : 100460.9/9

Right Out: 1144.777+/-0.307 χ^2/NDF : 497730.2/18

Left In: 1161.223+/-0.294 χ^2/NDF : 69321.6/8

Left: 1171.094+/-0.210 χ^2/NDF : 172078.5/18

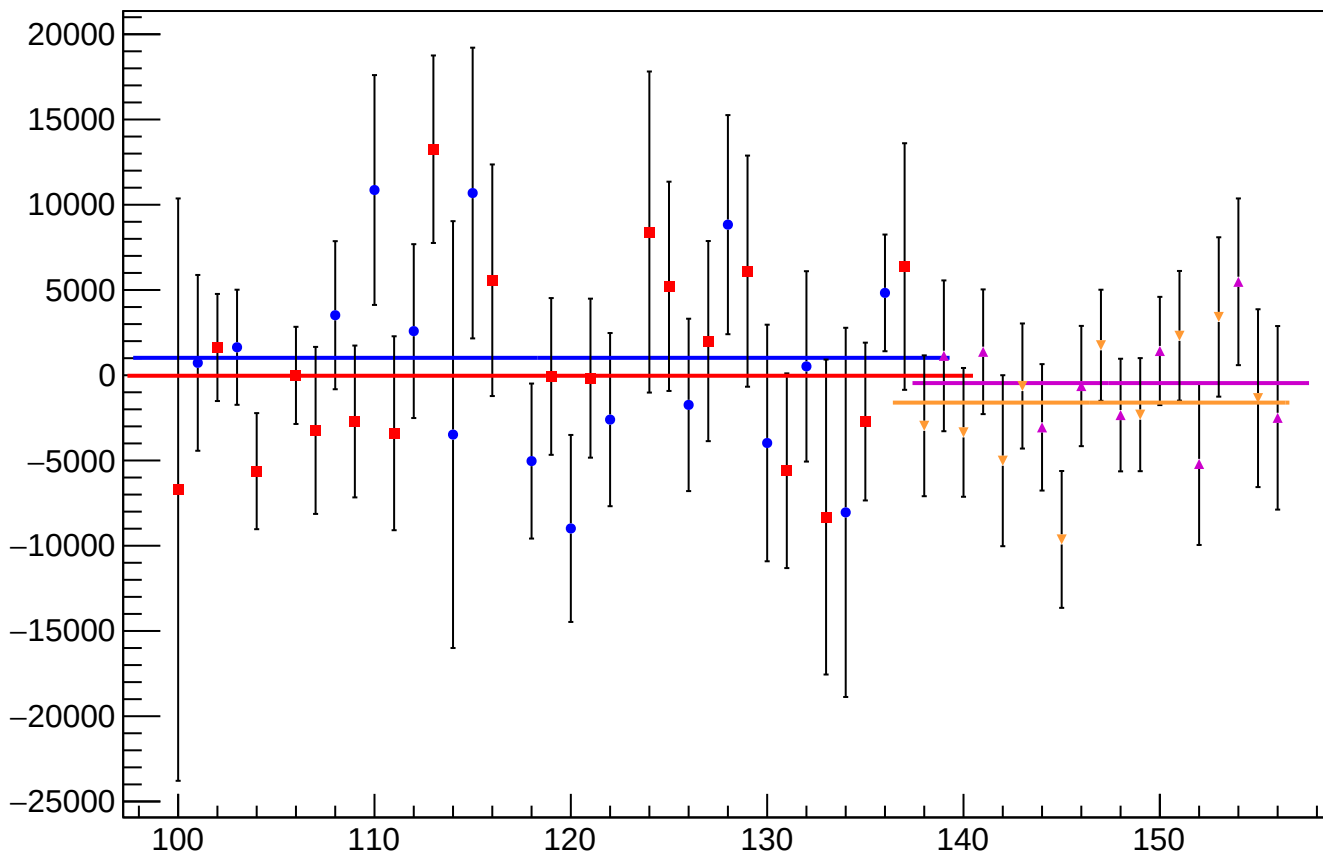
Right: 1162.281+/-0.221 χ^2/NDF : 1126326.4/34

In: 1170.340+/-0.216 χ^2/NDF : 693283.1/24

Out: 1163.527+/-0.214 χ^2/NDF : 605458.0/28

All: 1166.912+/-0.152 χ^2/NDF : 1299243.6/53

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: -1605.939+/-1248.371 χ^2/NDF : 8.2/9

Right Out: -30.142+/-1130.741 χ^2/NDF : 16.1/18

Left In: -460.572+/-1301.289 χ^2/NDF : 4.2/8

Left: -1057.017+/-900.859 χ^2/NDF : 12.8/18

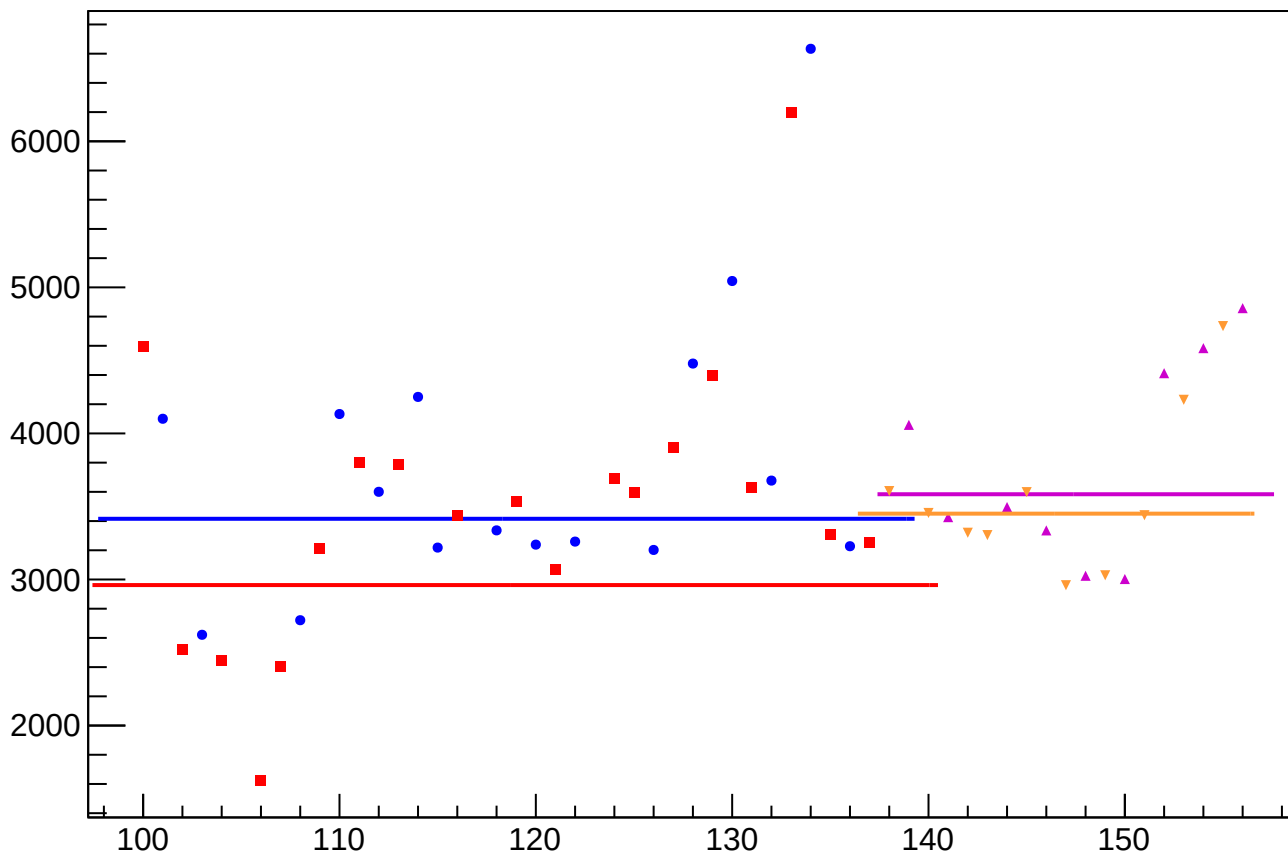
Right: 421.639+/-853.849 χ^2/NDF : 30.4/34

In: 279.580+/-920.553 χ^2/NDF : 18.7/24

Out: -740.318+/-838.063 χ^2/NDF : 25.2/28

All: -278.104+/-619.715 χ^2/NDF : 44.6/53

asym_usr_atr2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.591+/-0.921 χ^2/NDF : 592339.1/15

Left Out: 3450.784+/-0.883 χ^2/NDF : 264560.3/9

Right Out: 2961.793+/-0.800 χ^2/NDF : 1169257.0/18

Left In: 3583.677+/-0.920 χ^2/NDF : 418255.6/8

Left: 3514.474+/-0.637 χ^2/NDF : 693677.9/18

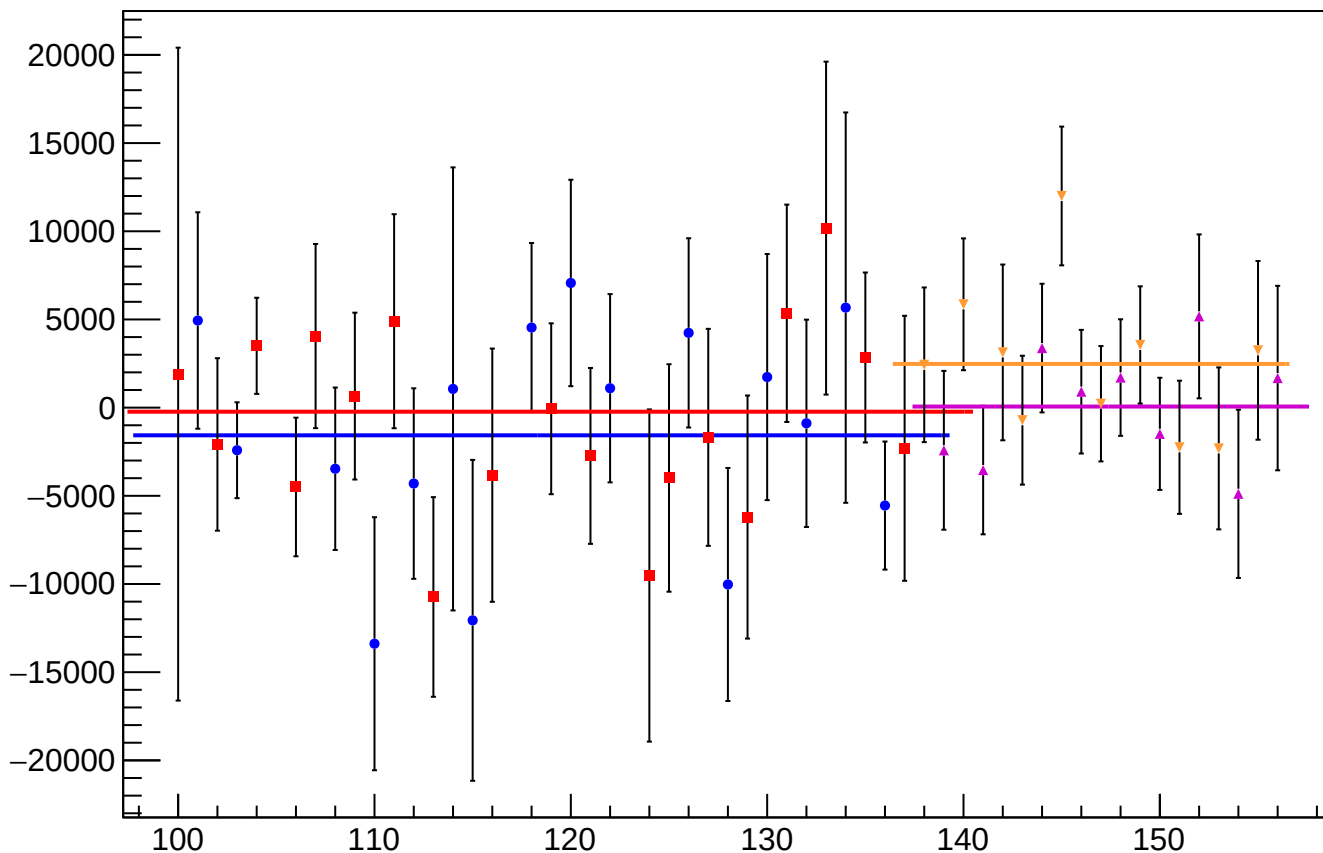
Right: 3156.830+/-0.604 χ^2/NDF : 1900042.9/34

In: 3499.708+/-0.651 χ^2/NDF : 1027264.6/24

Out: 3182.170+/-0.593 χ^2/NDF : 1602383.7/28

All: 3326.077+/-0.438 χ^2/NDF : 2759771.0/53

asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -1569.809 $\pm$ 1312.937 χ^2 /NDF: 14.5/15

Left Out: 2478.204 $\pm$ 1246.127 χ^2 /NDF:10.7/9

Right Out: -231.125 $\pm$ 1224.318 χ^2 /NDF: 13.2/18

Left In: 61.319 $\pm$ 1292.671 χ^2 /NDF:5.0/8

Left: 1314.056 $\pm$ 897.148 χ^2 /NDF: 17.6/18

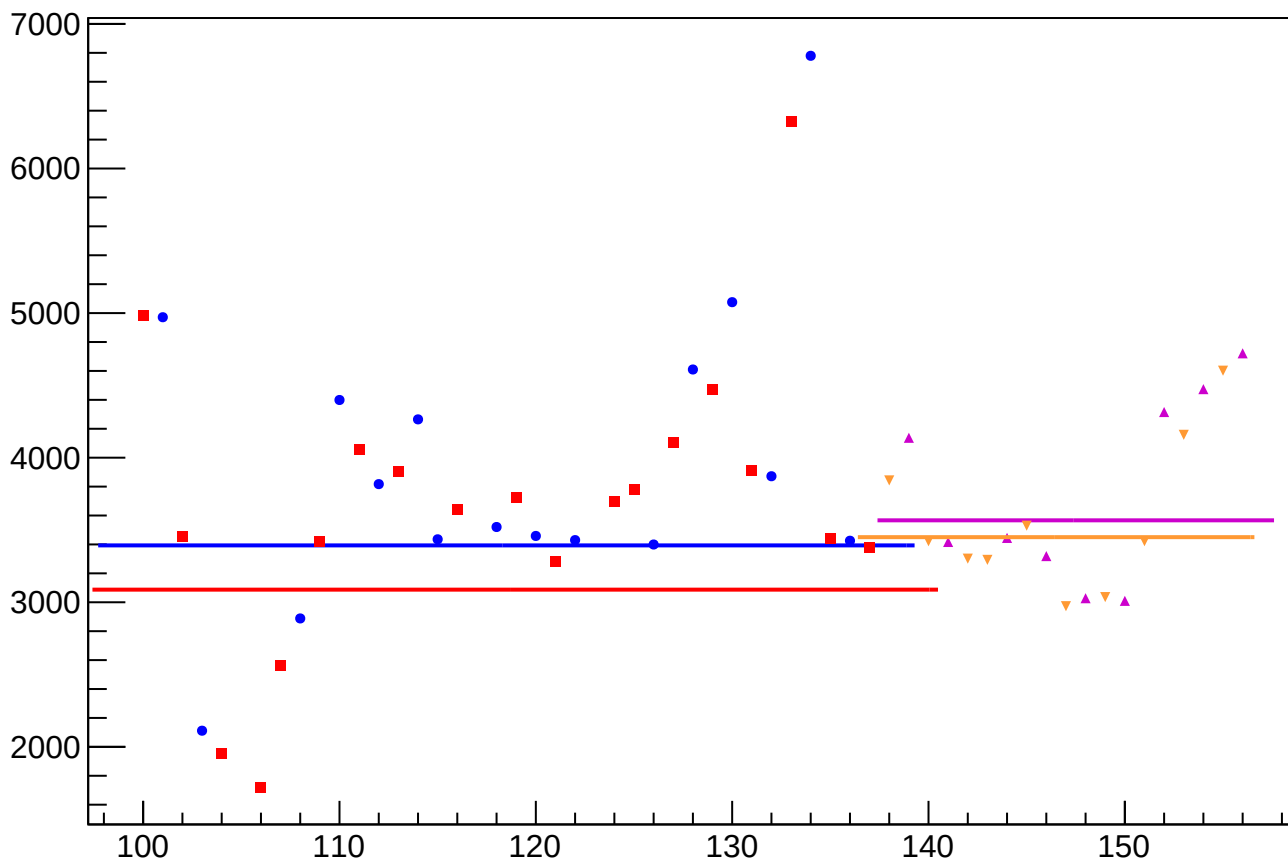
Right: -853.767 $\pm$ 895.415 χ^2 /NDF: 28.2/34

In: -741.559 $\pm$ 921.138 χ^2 /NDF:20.3/24

Out: 1099.623 $\pm$ 873.332 χ^2 /NDF:26.3/28

All: 228.048 $\pm$ 633.766 χ^2 /NDF: 48.7/53

asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 3393.365+/-0.928 χ^2/NDF : 1048707.6/15

Left Out: 3450.311+/-0.881 χ^2/NDF :247066.4/9

Right Out: 3087.307+/-0.851 χ^2/NDF : 1328355.8/18

Left In: 3566.723+/-0.914 χ^2/NDF :384026.5/8

Left: 3506.384+/-0.634 χ^2/NDF : 639500.2/18

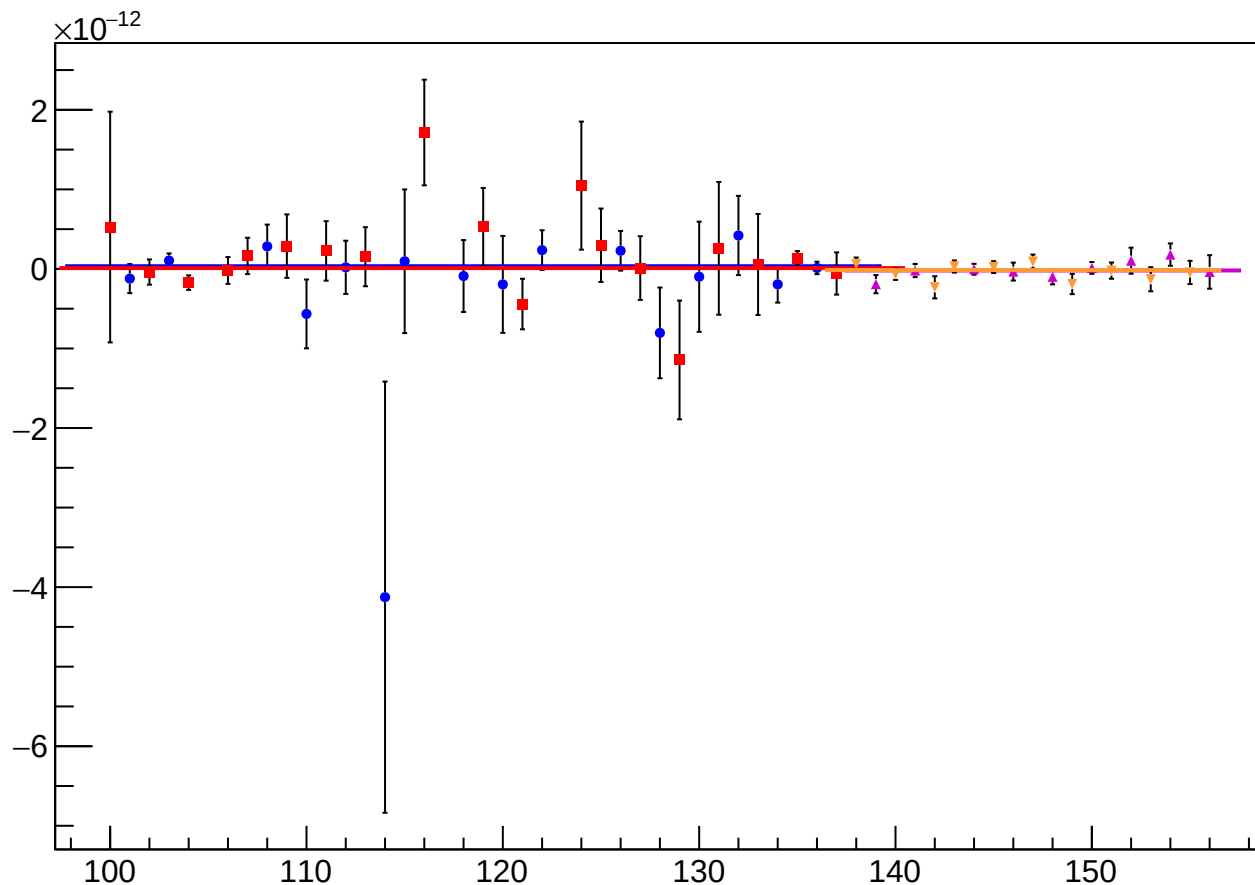
Right: 3227.090+/-0.627 χ^2/NDF : 2436107.0/34

In: 3481.392+/-0.651 χ^2/NDF :1450439.5/24

Out: 3262.541+/-0.612 χ^2/NDF :1663212.2/28

All: 3365.195+/-0.446 χ^2/NDF : 3173592.8/53

asym_usr_atr2_dd_reg_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 : 8.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 21.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.8/8

Left: -0.000+/-0.000 χ^2/NDF : 14.1/18

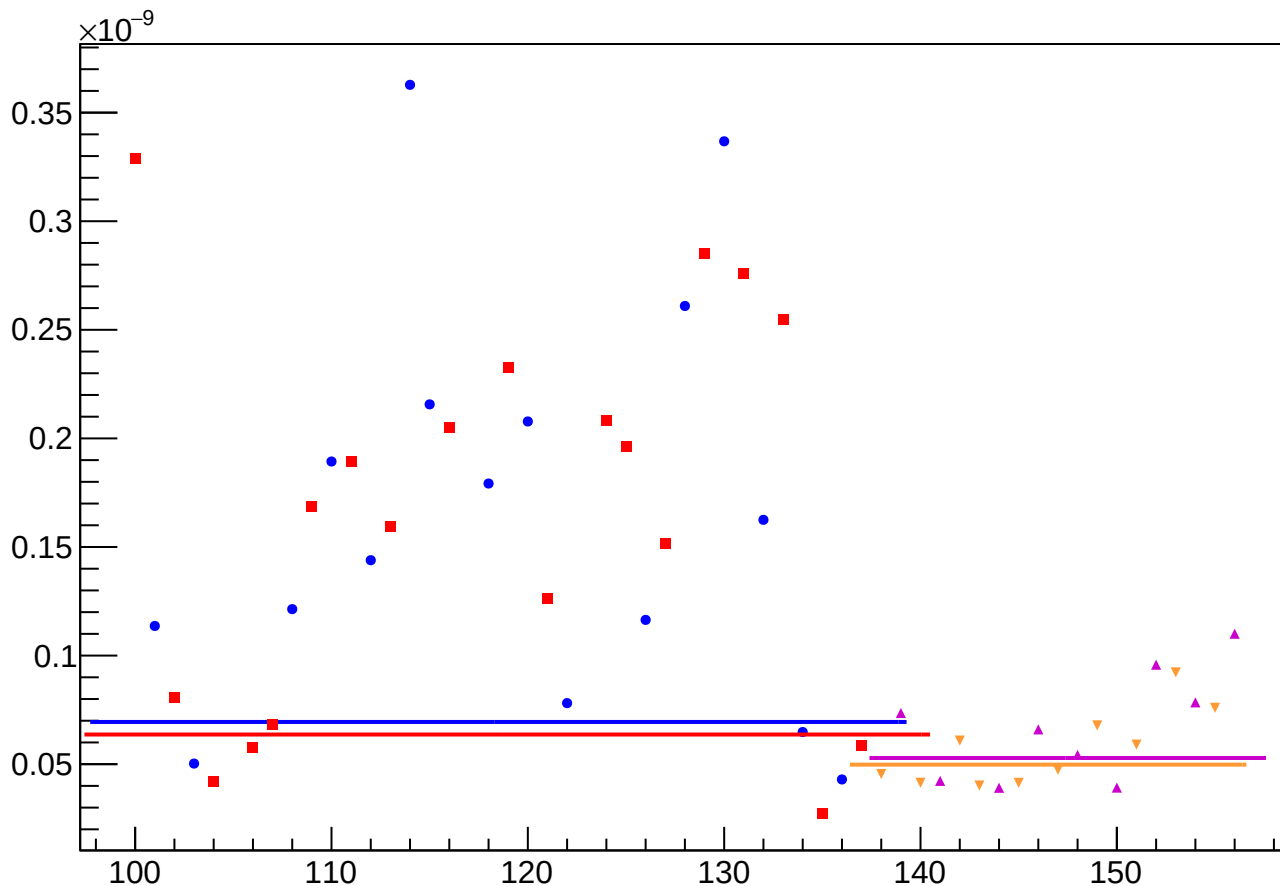
Right: 0.000+/-0.000 χ^2/NDF : 33.8/34

In: -0.000+/-0.000 χ^2/NDF : 18.4/24

Out: -0.000+/-0.000 χ^2/NDF : 30.4/28

All: -0.000+/-0.000 χ^2/NDF : 48.8/53

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 : 380875.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2250342.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 627198.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1017517.3/18

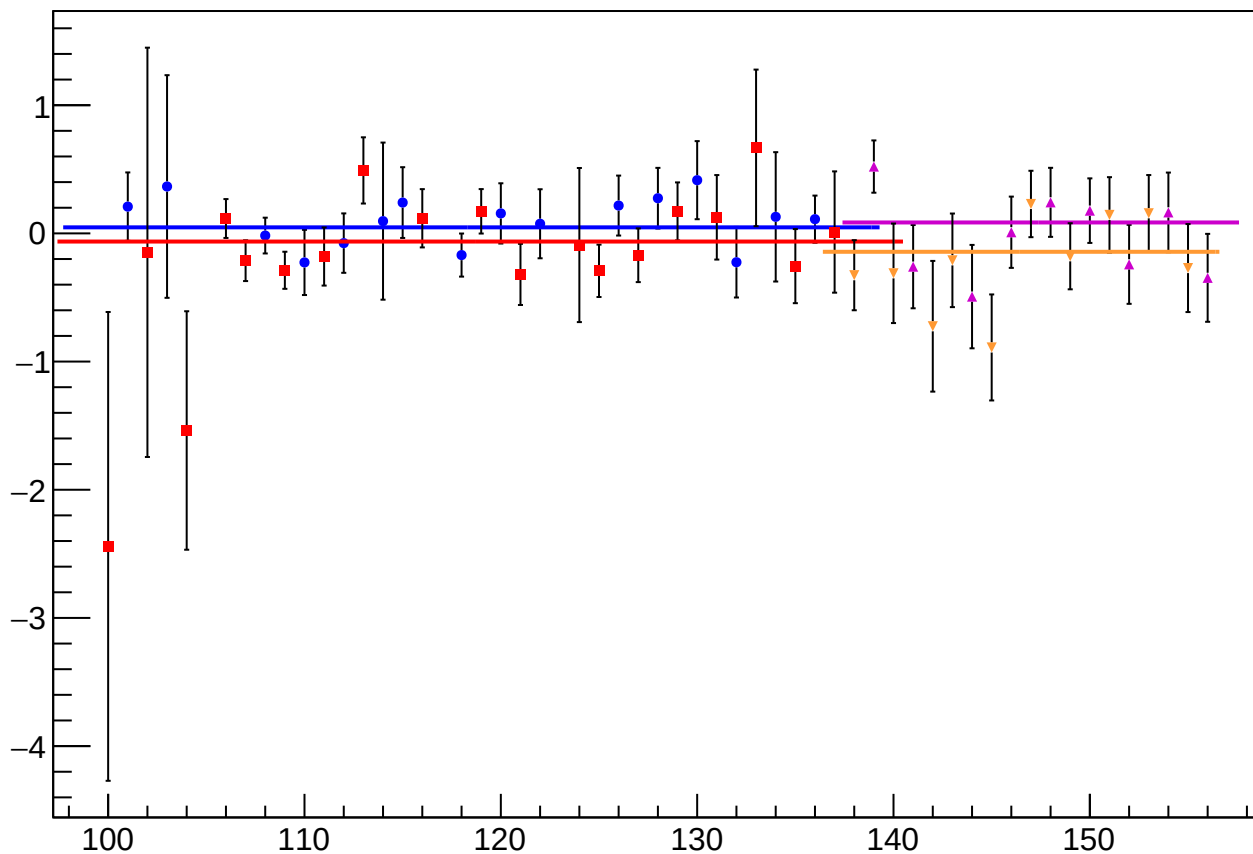
Right: 0.000+/-0.000 χ^2/NDF : 3993621.5/34

In: 0.000+/-0.000 χ^2/NDF : 2514872.8/24

Out: 0.000+/-0.000 χ^2/NDF : 2746005.5/28

All: 0.000+/-0.000 χ^2/NDF : 5290009.2/53

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.144 ± 0.101 $\chi^2/\text{NDF}: 9.4/9$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.085 ± 0.095 $\chi^2/\text{NDF}: 11.1/8$

Left: -0.022 ± 0.069 $\chi^2/\text{NDF}: 23.2/18$

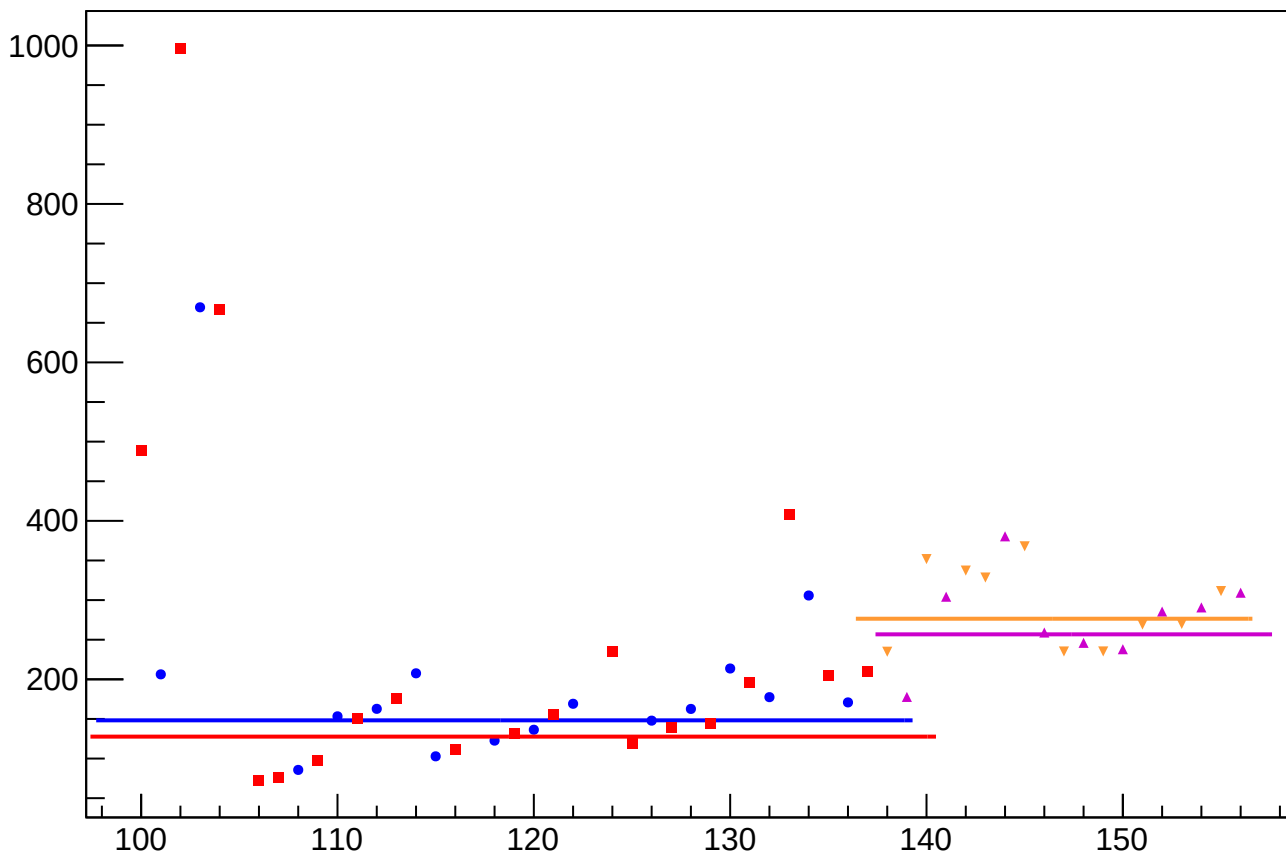
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.058 ± 0.051 $\chi^2/\text{NDF}: 19.8/24$

Out: -0.082 ± 0.048 $\chi^2/\text{NDF}: 32.1/28$

All: -0.016 ± 0.035 $\chi^2/\text{NDF}: 55.9/53$

asym_usr_atr2_dd_dit_vs_Slug, Sign Corrected



Right In: 148.240 $\pm$ 0.042 χ^2 /NDF: 1710035.6/15

Left Out: 276.488 $\pm$ 0.071 χ^2 /NDF: 413412.6/9

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841780.7/18

Left In: 256.780 $\pm$ 0.067 χ^2 /NDF: 633467.6/8

Left: 266.017 $\pm$ 0.049 χ^2 /NDF: 1087497.3/18

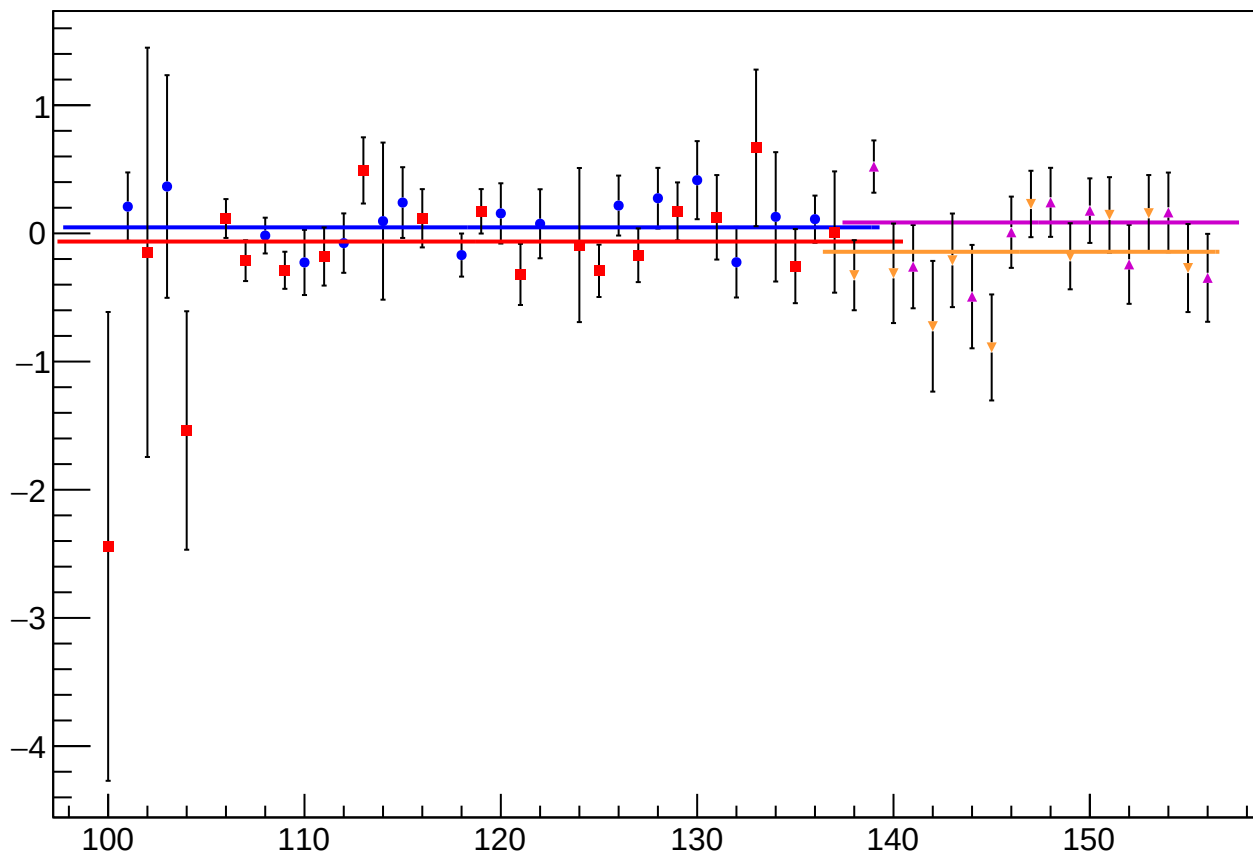
Right: 137.004 $\pm$ 0.029 χ^2 /NDF: 4680006.1/34

In: 179.362 $\pm$ 0.036 χ^2 /NDF: 4218358.1/24

Out: 161.503 $\pm$ 0.034 χ^2 /NDF: 6622986.6/28

All: 169.955 $\pm$ 0.025 χ^2 /NDF: 10972069.9/53

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.144 ± 0.101 $\chi^2/\text{NDF}: 9.4/9$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.085 ± 0.095 $\chi^2/\text{NDF}: 11.1/8$

Left: -0.022 ± 0.069 $\chi^2/\text{NDF}: 23.2/18$

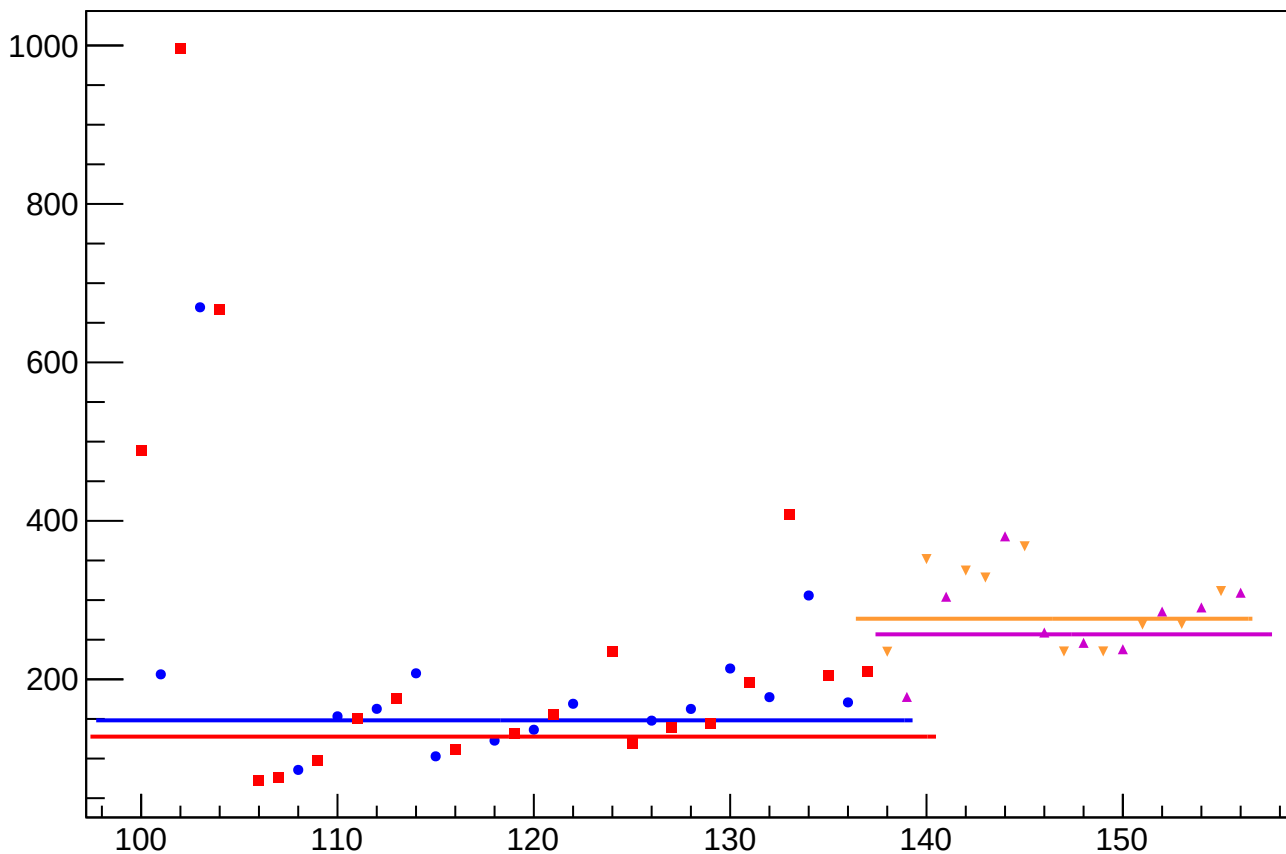
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.058 ± 0.051 $\chi^2/\text{NDF}: 19.8/24$

Out: -0.082 ± 0.048 $\chi^2/\text{NDF}: 32.1/28$

All: -0.016 ± 0.035 $\chi^2/\text{NDF}: 55.9/53$

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: 276.488 $\pm$ 0.071 χ^2 /NDF: 413412.6/9

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841780.7/18

Left In: 256.780 $\pm$ 0.067 χ^2 /NDF: 633467.6/8

Left: 266.017 $\pm$ 0.049 χ^2 /NDF: 1087497.3/18

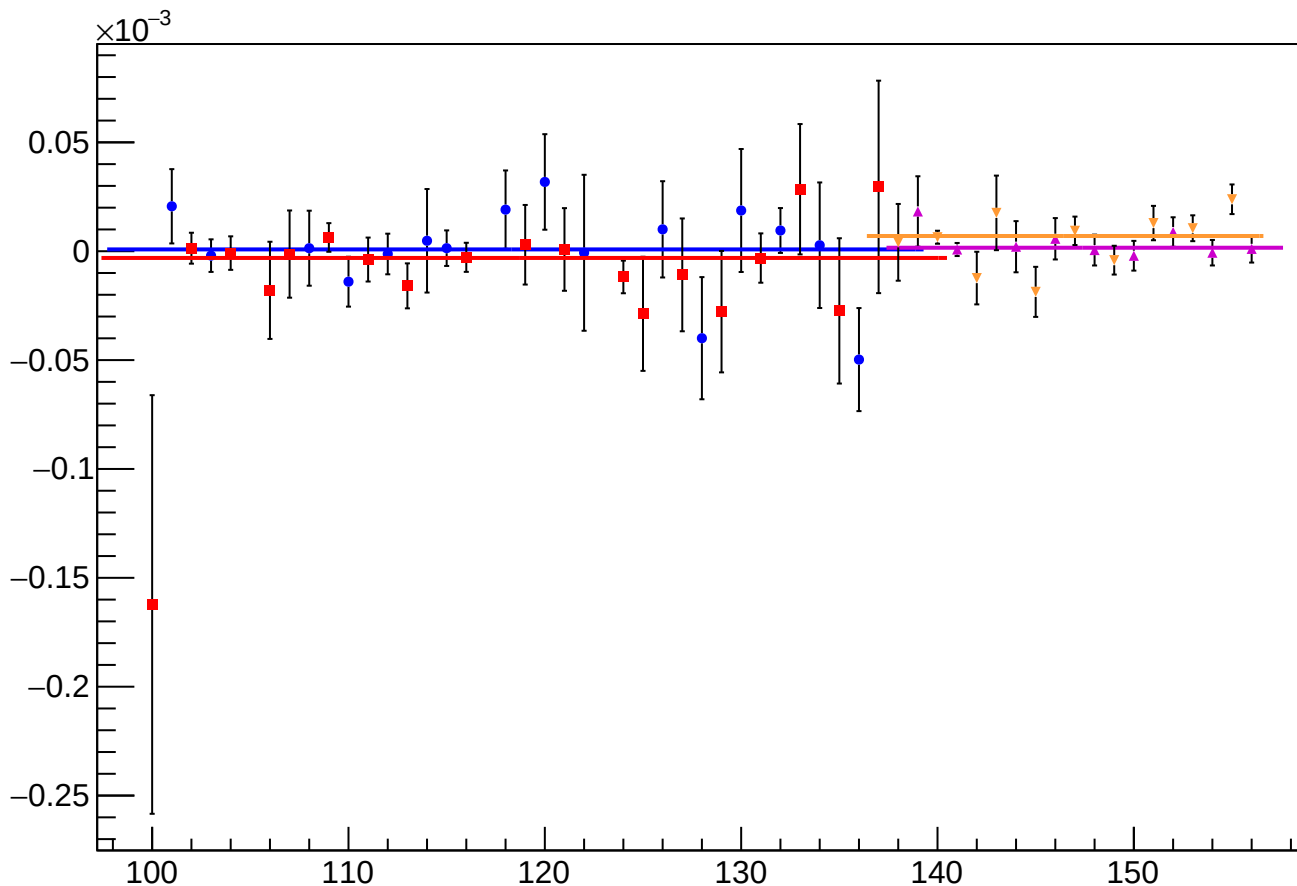
Right: 137.004 $\pm$ 0.029 χ^2 /NDF: 4680006.1/34

In: 179.362 $\pm$ 0.036 χ^2 /NDF: 4218358.1/24

Out: 161.503 $\pm$ 0.034 χ^2 /NDF: 6622986.6/28

All: 169.955 $\pm$ 0.025 χ^2 /NDF: 10972069.9/53

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.3/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:18.0/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.7/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:2.9/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.5/18

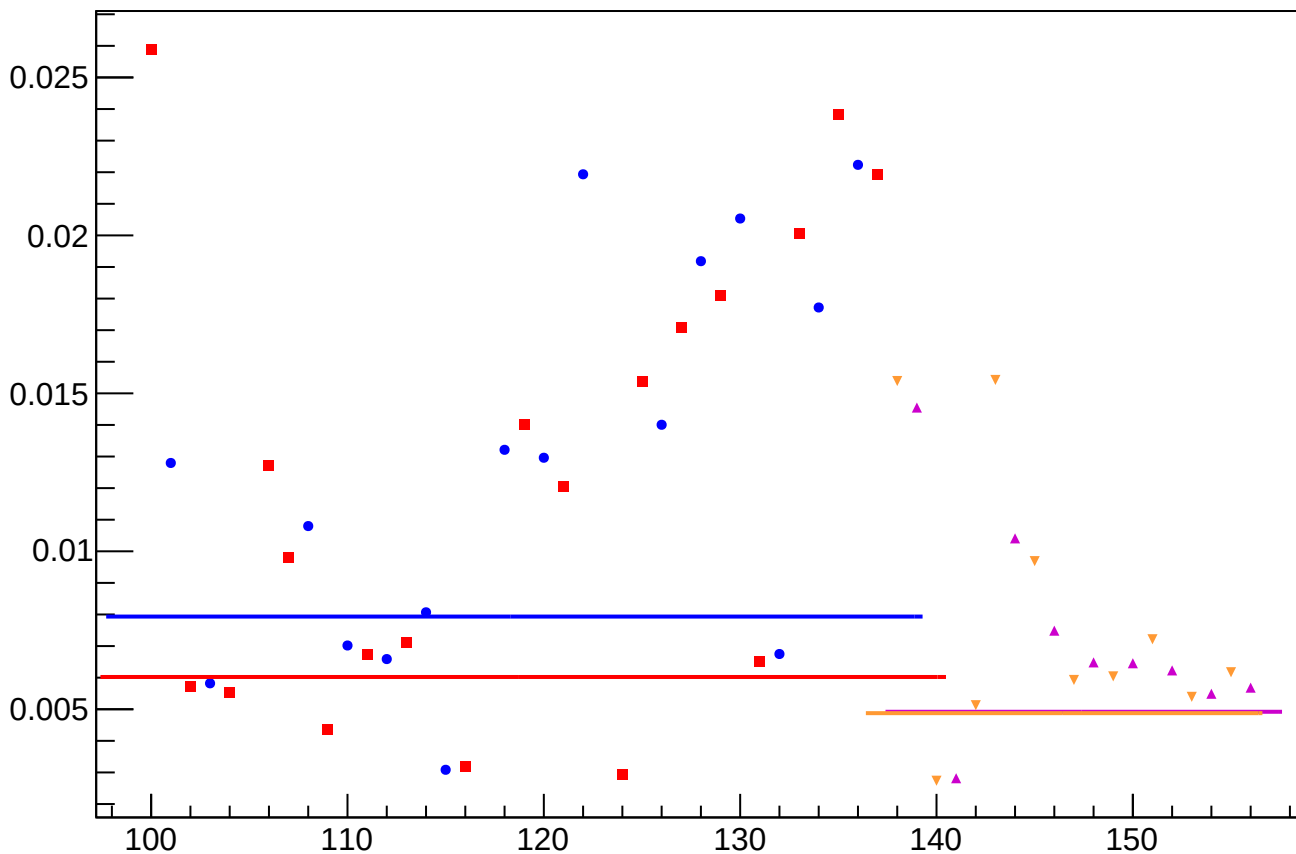
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 27.8/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:17.2/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:39.9/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 57.8/53

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: 0.005+/-0.000 χ^2/NDF :3222990.2/9

Right Out: 0.006+/-0.000 χ^2/NDF : 4009592.0/18

Left In: 0.005+/-0.000 χ^2/NDF :2597606.6/8

Left: 0.005+/-0.000 χ^2/NDF : 5821080.2/18

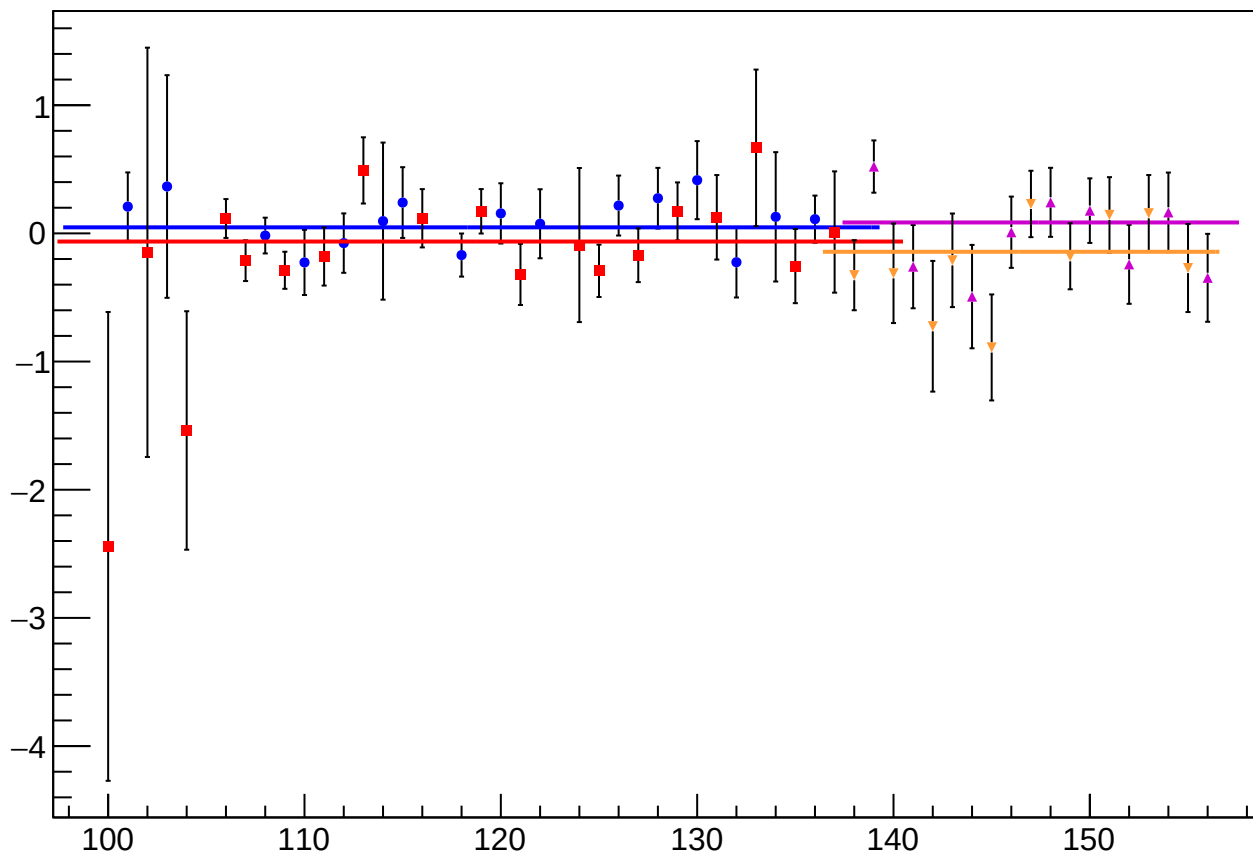
Right: 0.007+/-0.000 χ^2/NDF : 7973863.6/34

In: 0.006+/-0.000 χ^2/NDF :7312793.7/24

Out: 0.005+/-0.000 χ^2/NDF :7470758.4/28

All: 0.005+/-0.000 χ^2/NDF : 14833575.5/53

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: -0.144 ± 0.101 $\chi^2/\text{NDF}: 9.4/9$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.085 ± 0.095 $\chi^2/\text{NDF}: 11.1/8$

Left: -0.022 ± 0.069 $\chi^2/\text{NDF}: 23.2/18$

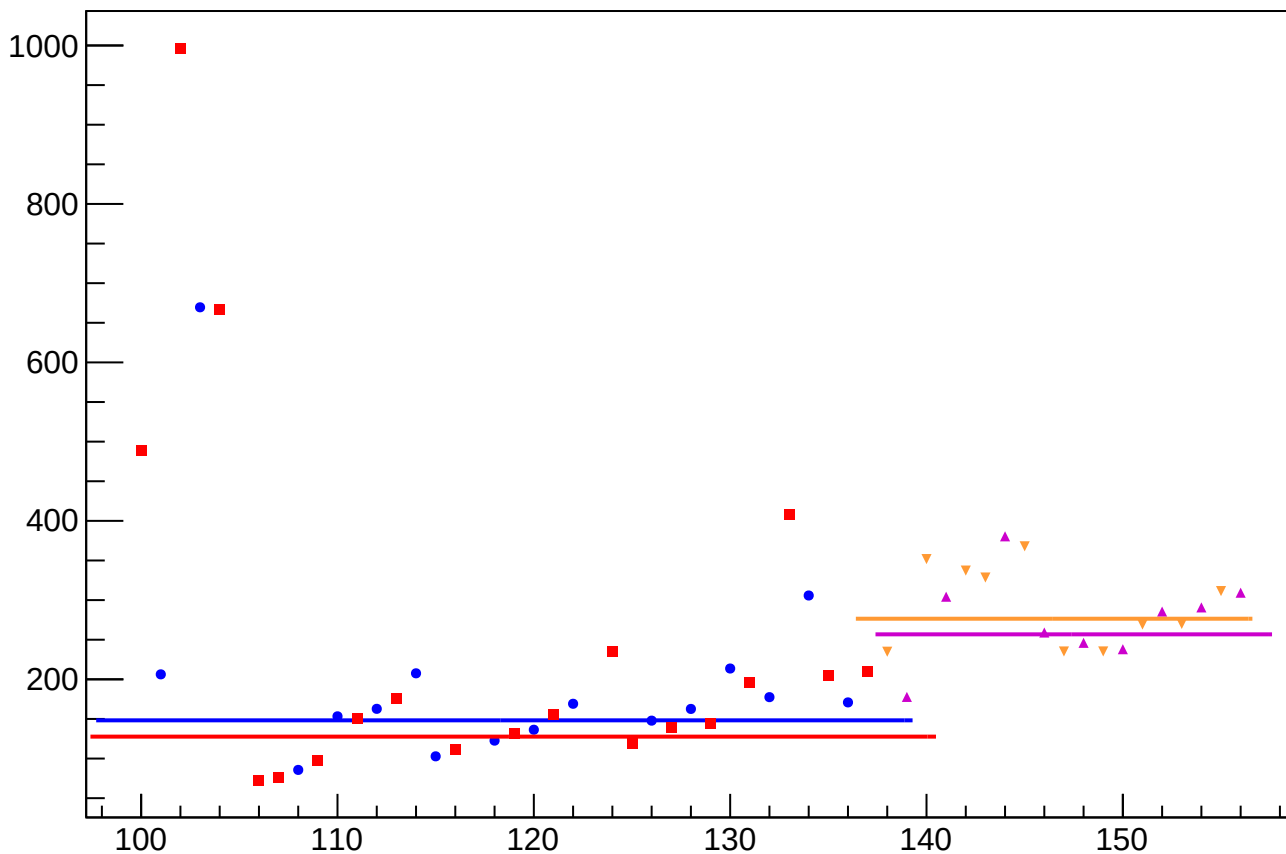
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.058 ± 0.051 $\chi^2/\text{NDF}: 19.8/24$

Out: -0.082 ± 0.048 $\chi^2/\text{NDF}: 32.1/28$

All: -0.016 ± 0.035 $\chi^2/\text{NDF}: 55.9/53$

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238 $\pm$ 0.042 χ^2 /NDF: 1710114.4/15

Left Out: 276.491 $\pm$ 0.071 χ^2 /NDF: 413386.1/9

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841772.5/18

Left In: 256.783 $\pm$ 0.067 χ^2 /NDF: 633420.9/8

Left: 266.020 $\pm$ 0.049 χ^2 /NDF: 1087424.5/18

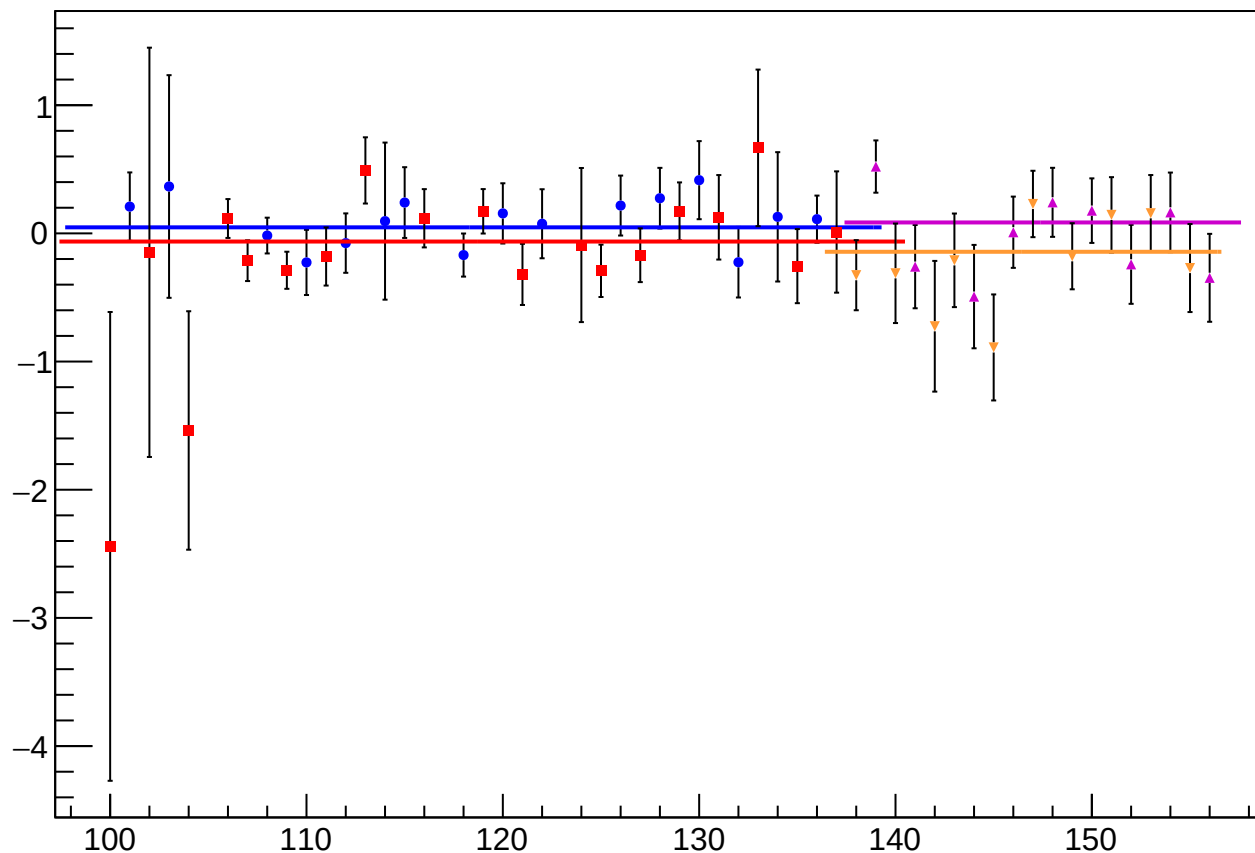
Right: 137.003 $\pm$ 0.029 χ^2 /NDF: 4680047.3/34

In: 179.360 $\pm$ 0.036 χ^2 /NDF: 4218556.7/24

Out: 161.504 $\pm$ 0.034 χ^2 /NDF: 6623031.8/28

All: 169.955 $\pm$ 0.025 χ^2 /NDF: 10972282.6/53

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.144 ± 0.101 $\chi^2/\text{NDF}: 9.4/9$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.085 ± 0.095 $\chi^2/\text{NDF}: 11.1/8$

Left: -0.022 ± 0.069 $\chi^2/\text{NDF}: 23.2/18$

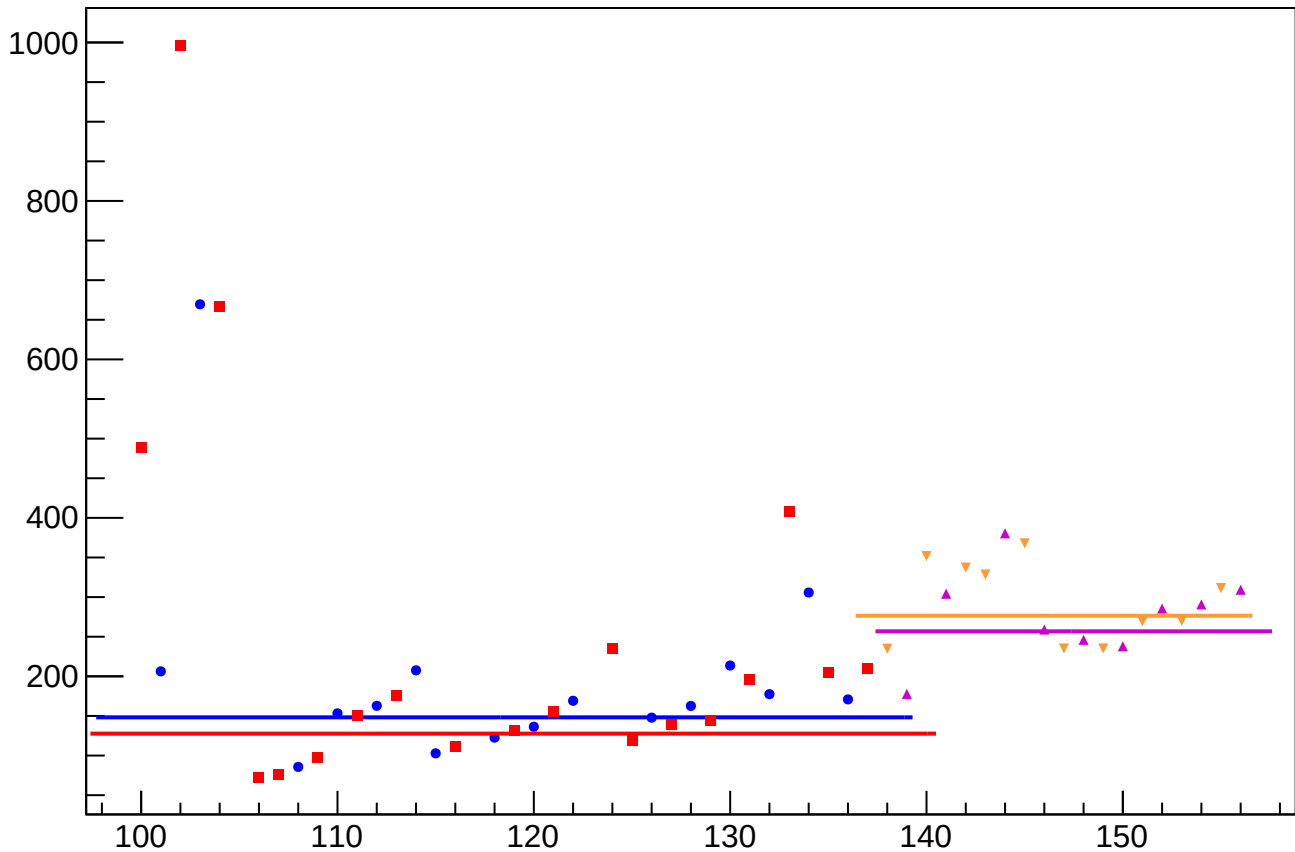
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.058 ± 0.051 $\chi^2/\text{NDF}: 19.8/24$

Out: -0.082 ± 0.048 $\chi^2/\text{NDF}: 32.1/28$

All: -0.016 ± 0.035 $\chi^2/\text{NDF}: 55.9/53$

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238 $\pm$ 0.042 χ^2 /NDF: 1710114.4/15

Left Out: 276.491 $\pm$ 0.071 χ^2 /NDF: 413386.1/9

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841772.5/18

Left In: 256.783 $\pm$ 0.067 χ^2 /NDF: 633420.9/8

Left: 266.020 $\pm$ 0.049 χ^2 /NDF: 1087424.5/18

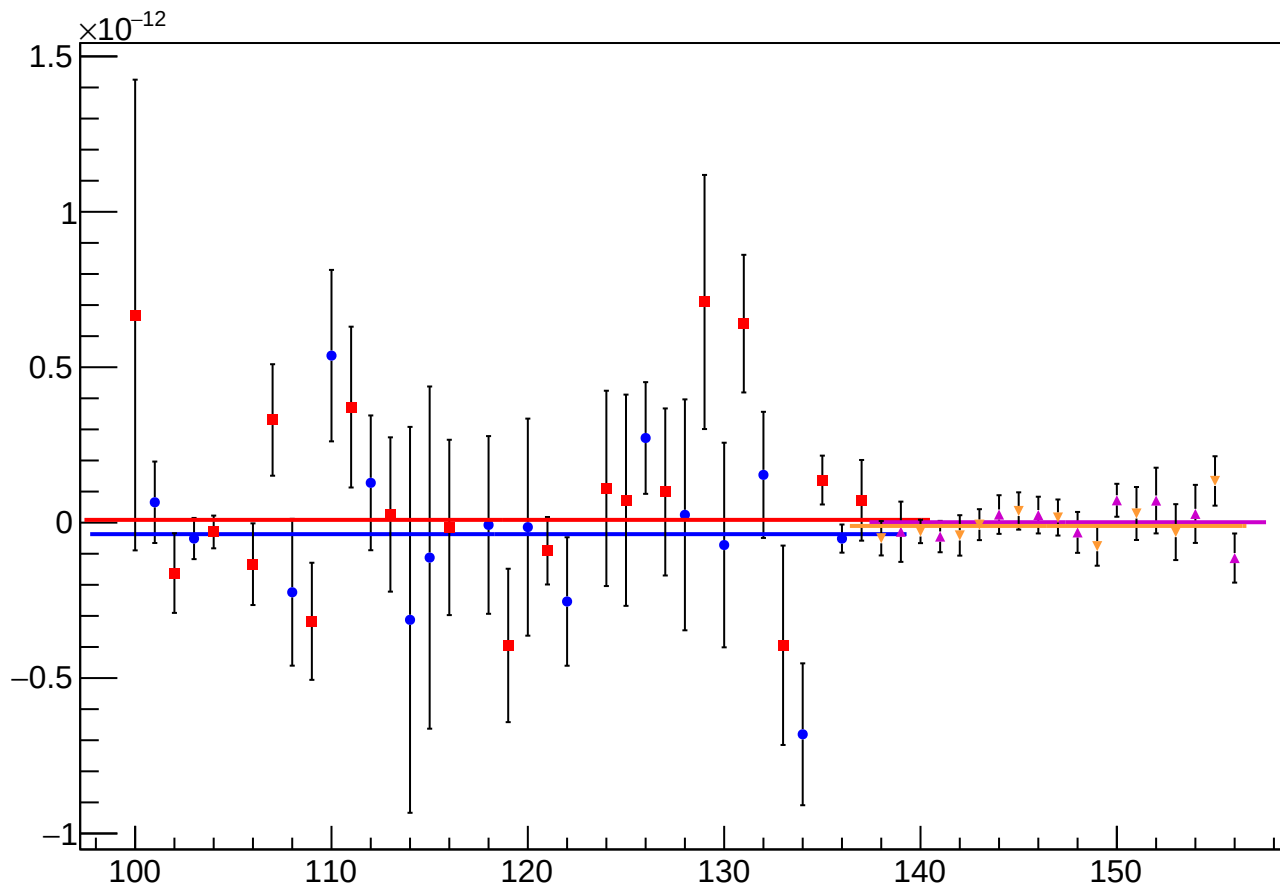
Right: 137.003 $\pm$ 0.029 χ^2 /NDF: 4680047.3/34

In: 179.360 $\pm$ 0.036 χ^2 /NDF: 4218556.7/24

Out: 161.504 $\pm$ 0.034 χ^2 /NDF: 6623031.8/28

All: 169.955 $\pm$ 0.025 χ^2 /NDF: 10972282.6/53

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 : 6.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 31.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.9/8

Left: -0.000+/-0.000 χ^2/NDF : 12.6/18

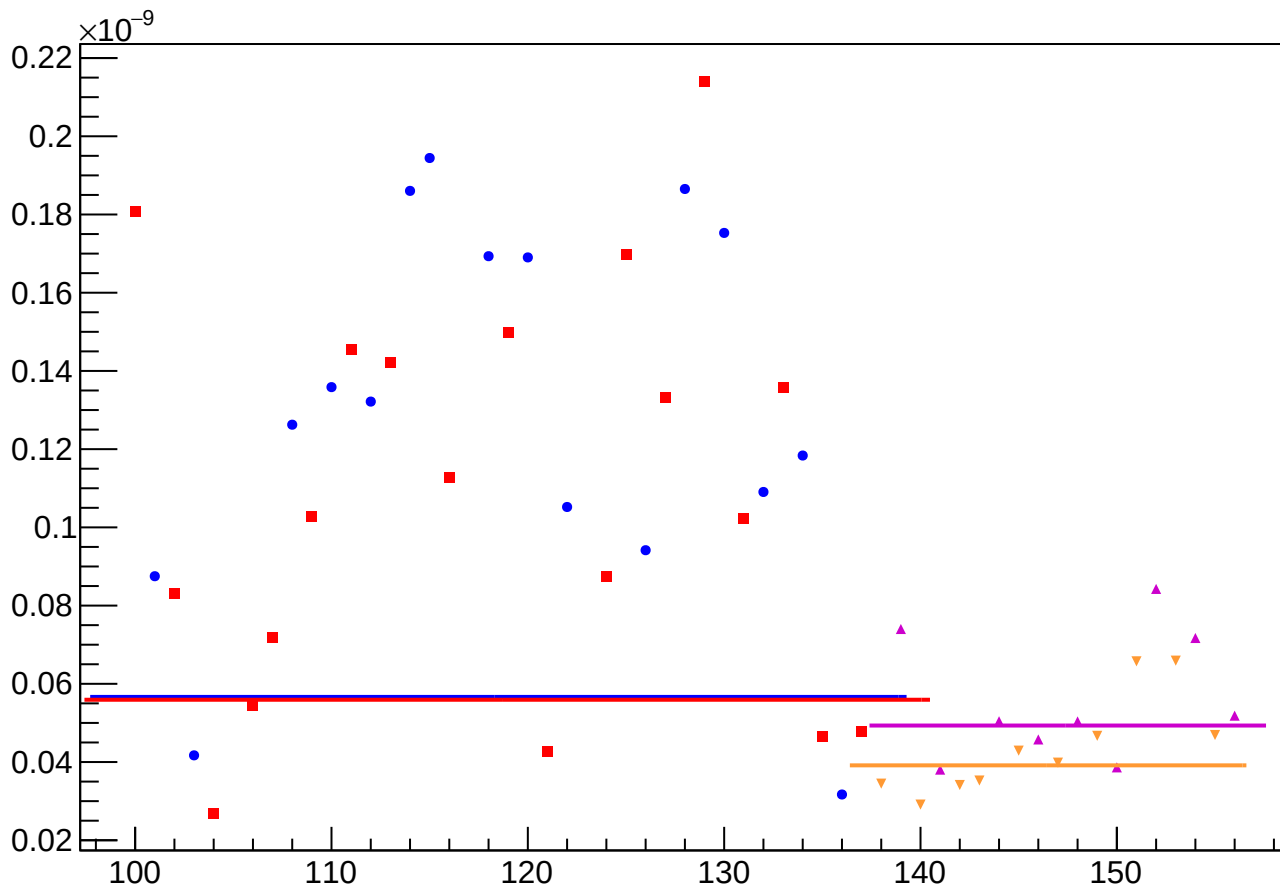
Right: -0.000+/-0.000 χ^2/NDF : 52.3/34

In: -0.000+/-0.000 χ^2/NDF : 26.3/24

Out: -0.000+/-0.000 χ^2/NDF : 38.5/28

All: -0.000+/-0.000 χ^2/NDF : 64.9/53

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 : 608595.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2732977.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 654799.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1509173.0/18

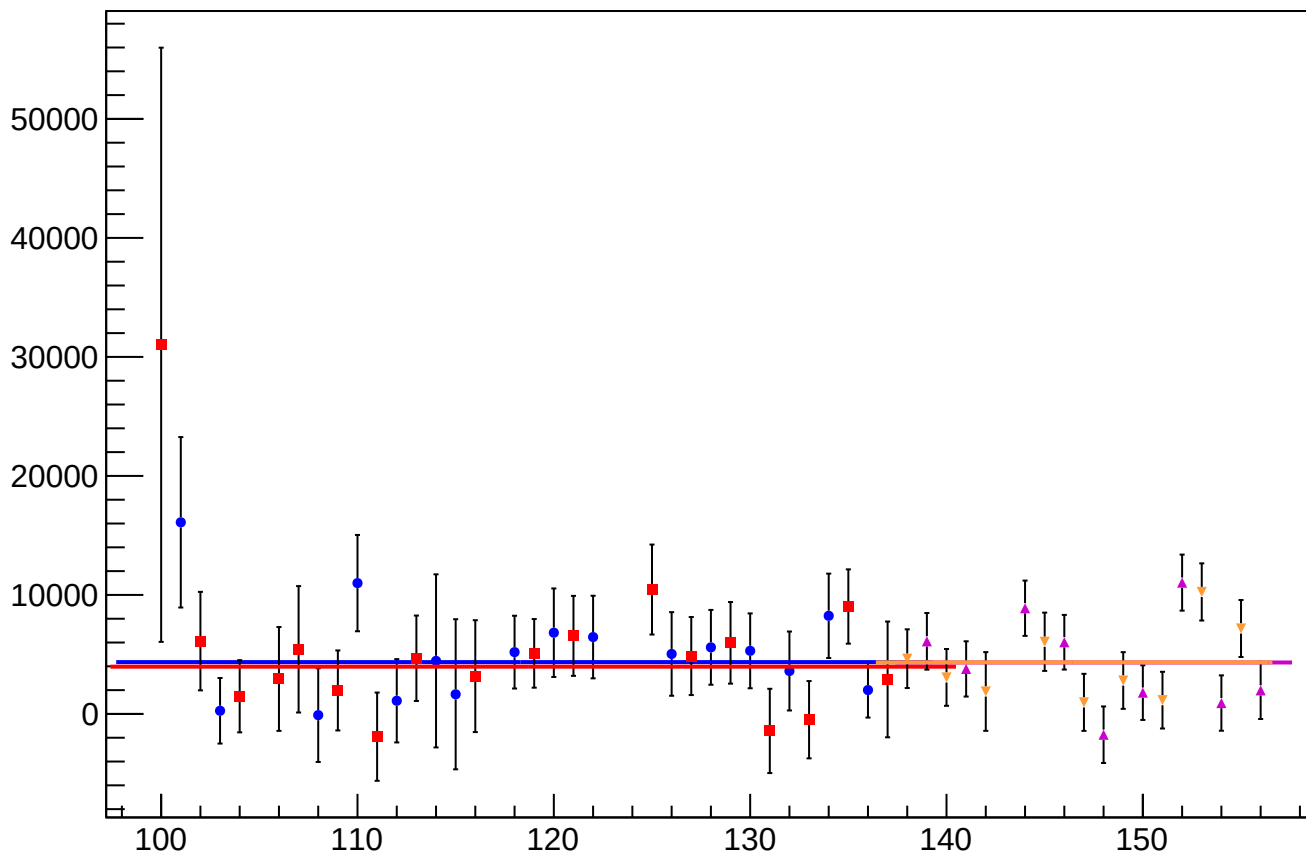
Right: 0.000+/-0.000 χ^2/NDF : 5846702.2/34

In: 0.000+/-0.000 χ^2/NDF : 3837787.3/24

Out: 0.000+/-0.000 χ^2/NDF : 3753160.8/28

All: 0.000+/-0.000 χ^2/NDF : 7826651.1/53

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: 4335.337+/-824.034 χ^2/NDF :13.0/8

Right Out: 3971.679+/-871.305 χ^2/NDF : 16.2/17

Left In: 4323.976+/-780.481 χ^2/NDF :24.0/8

Left: 4329.348+/-566.655 χ^2/NDF : 36.9/17

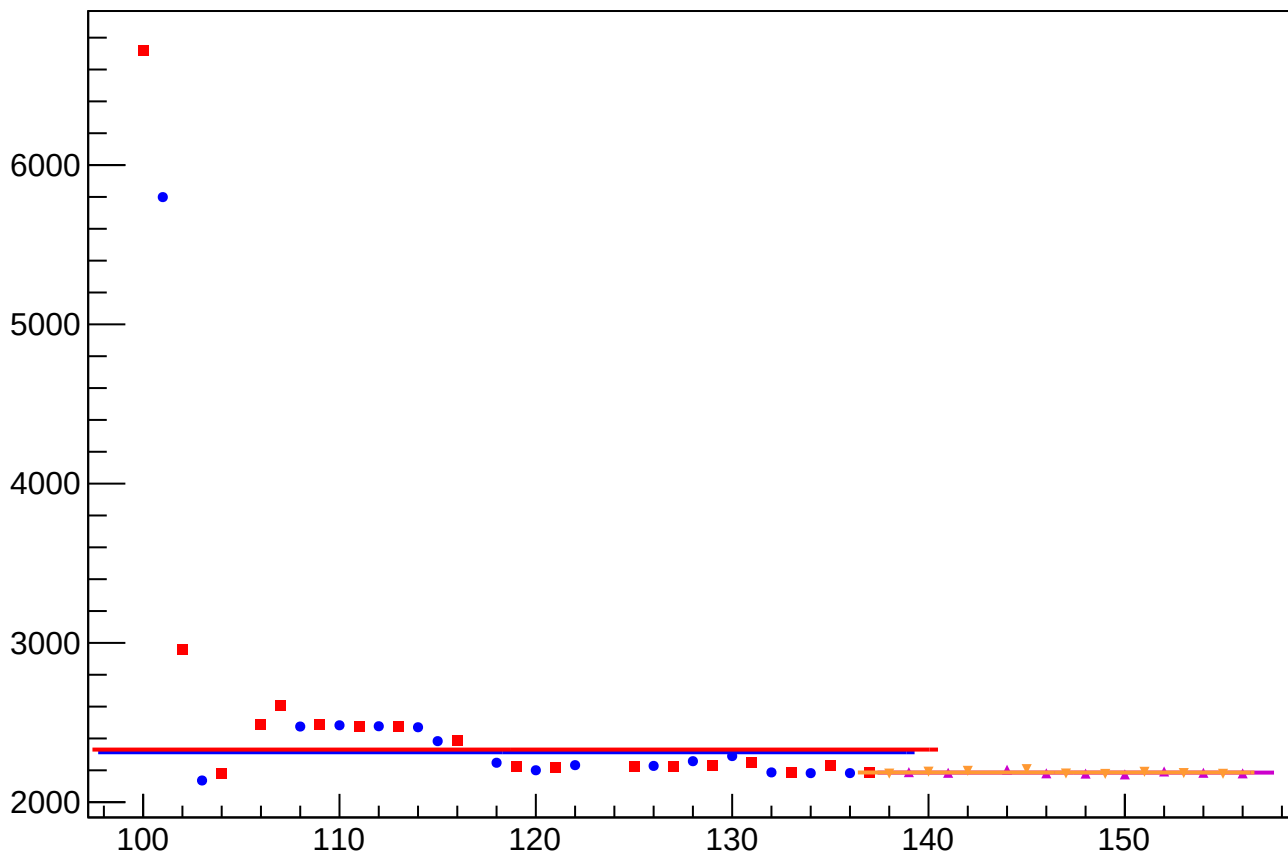
Right: 4162.171+/-617.462 χ^2/NDF : 29.6/33

In: 4337.431+/-582.490 χ^2/NDF :37.3/24

Out: 4163.640+/-598.694 χ^2/NDF :29.2/26

All: 4252.919+/-417.494 χ^2/NDF : 66.6/51

reg_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413 $\pm$ 0.619 χ^2 /NDF: 512371.8/15

Left Out: 2186.337 $\pm$ 0.583 χ^2 /NDF:269.6/8

Right Out: 2330.200 $\pm$ 0.616 χ^2 /NDF: 151210.5/17

Left In: 2185.641 $\pm$ 0.552 χ^2 /NDF:220.1/8

Left: 2185.970 $\pm$ 0.401 χ^2 /NDF: 490.5/17

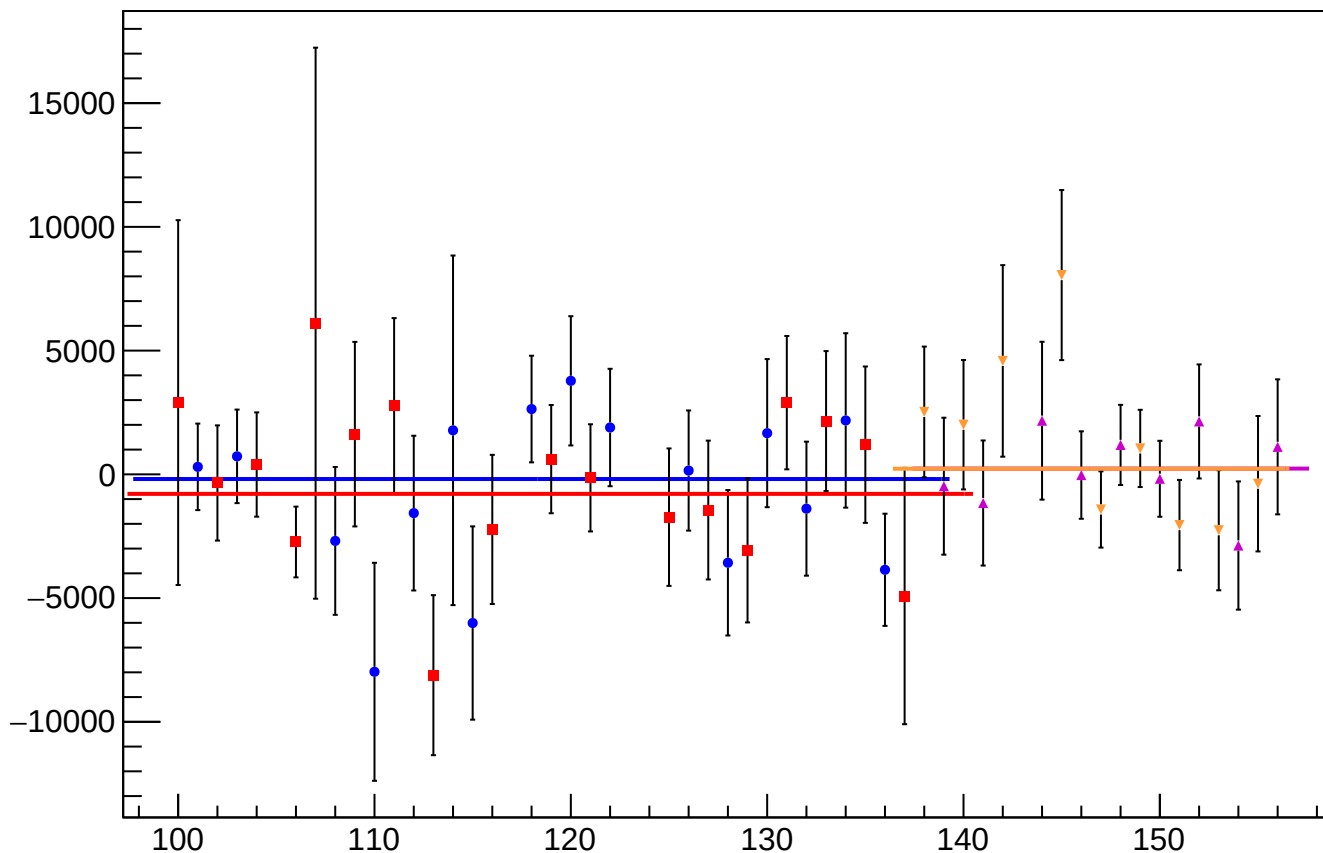
Right: 2321.844 $\pm$ 0.437 χ^2 /NDF: 663951.9/33

In: 2242.245 $\pm$ 0.412 χ^2 /NDF:536337.5/24

Out: 2254.261 $\pm$ 0.423 χ^2 /NDF:180261.7/26

All: 2248.088 $\pm$ 0.295 χ^2 /NDF: 717013.1/51

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.660 ± 658.334 $\chi^2/\text{NDF}: 16.4/15$

Left Out: 226.794 ± 729.972 $\chi^2/\text{NDF}: 11.7/8$

Right Out: -789.317 ± 634.900 $\chi^2/\text{NDF}: 14.9/17$

Left In: 232.504 ± 710.081 $\chi^2/\text{NDF}: 3.4/8$

Left: 229.728 ± 508.990 $\chi^2/\text{NDF}: 15.2/17$

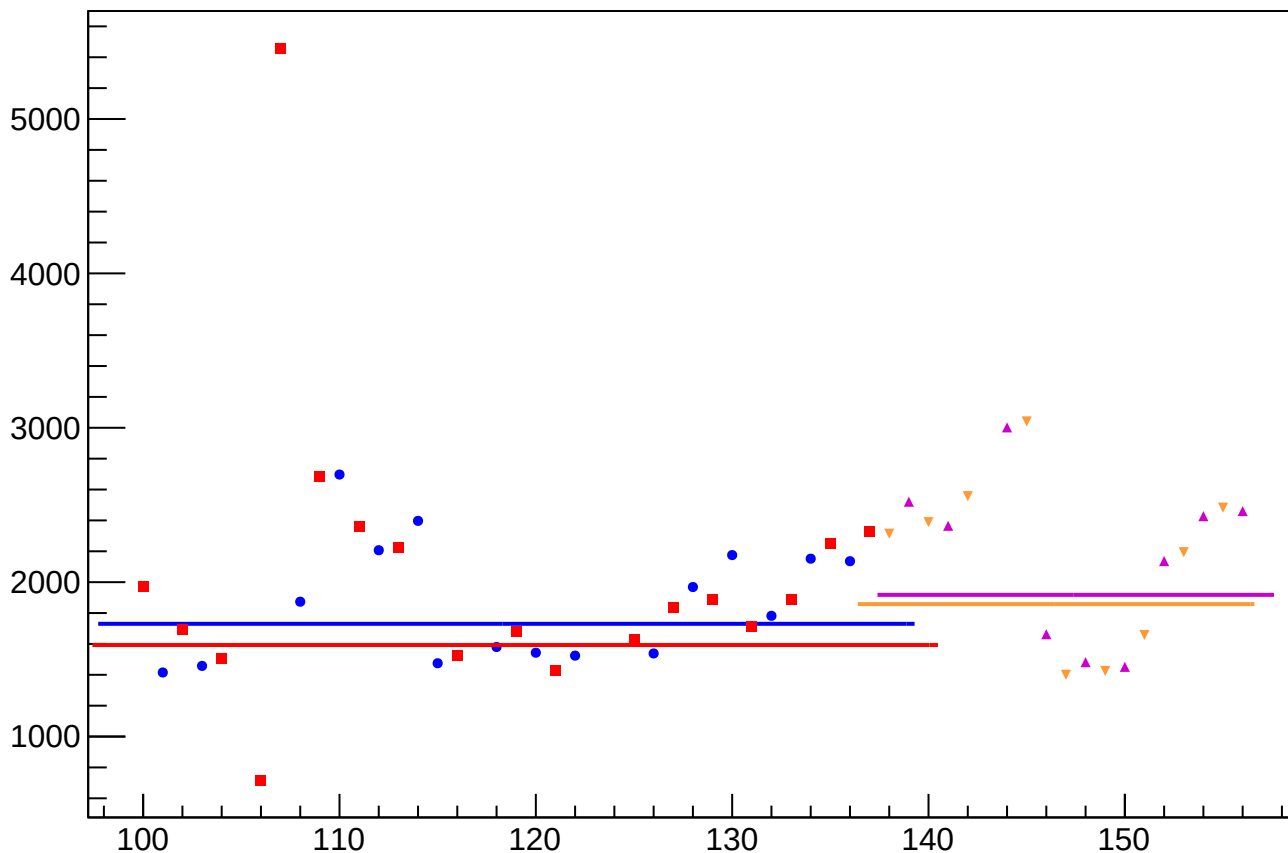
Right: -499.869 ± 457.002 $\chi^2/\text{NDF}: 31.8/33$

In: 6.019 ± 482.771 $\chi^2/\text{NDF}: 20.0/24$

Out: -351.698 ± 479.053 $\chi^2/\text{NDF}: 27.8/26$

All: -174.222 ± 340.048 $\chi^2/\text{NDF}: 48.1/51$

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: 1857.820+/-0.516 χ^2/NDF : 941574.3/8

Right Out: 1592.824+/-0.449 χ^2/NDF : 1556204.8/17

Left In: 1917.742+/-0.502 χ^2/NDF : 934836.8/8

Left: 1888.609+/-0.360 χ^2/NDF : 1883335.7/17

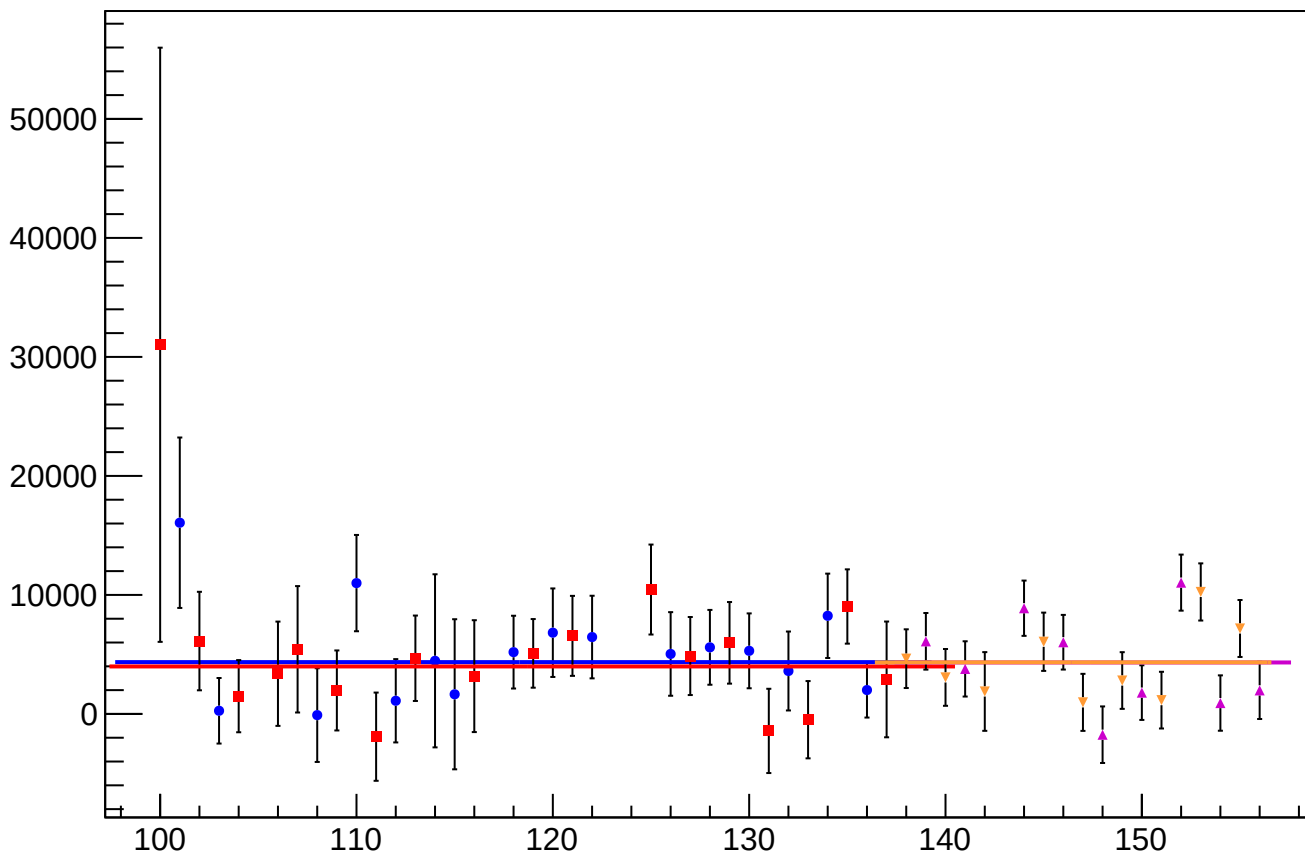
Right: 1659.066+/-0.323 χ^2/NDF : 2080315.9/33

In: 1816.936+/-0.341 χ^2/NDF : 1488722.9/24

Out: 1706.953+/-0.339 χ^2/NDF : 2647835.2/26

All: 1761.519+/-0.240 χ^2/NDF : 4188860.1/51

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: 4335.172+/-824.034 χ^2/NDF :13.0/8

Right Out: 3989.884+/-871.455 χ^2/NDF : 16.1/17

Left In: 4324.242+/-780.481 χ^2/NDF :24.0/8

Left: 4329.411+/-566.655 χ^2/NDF : 36.9/17

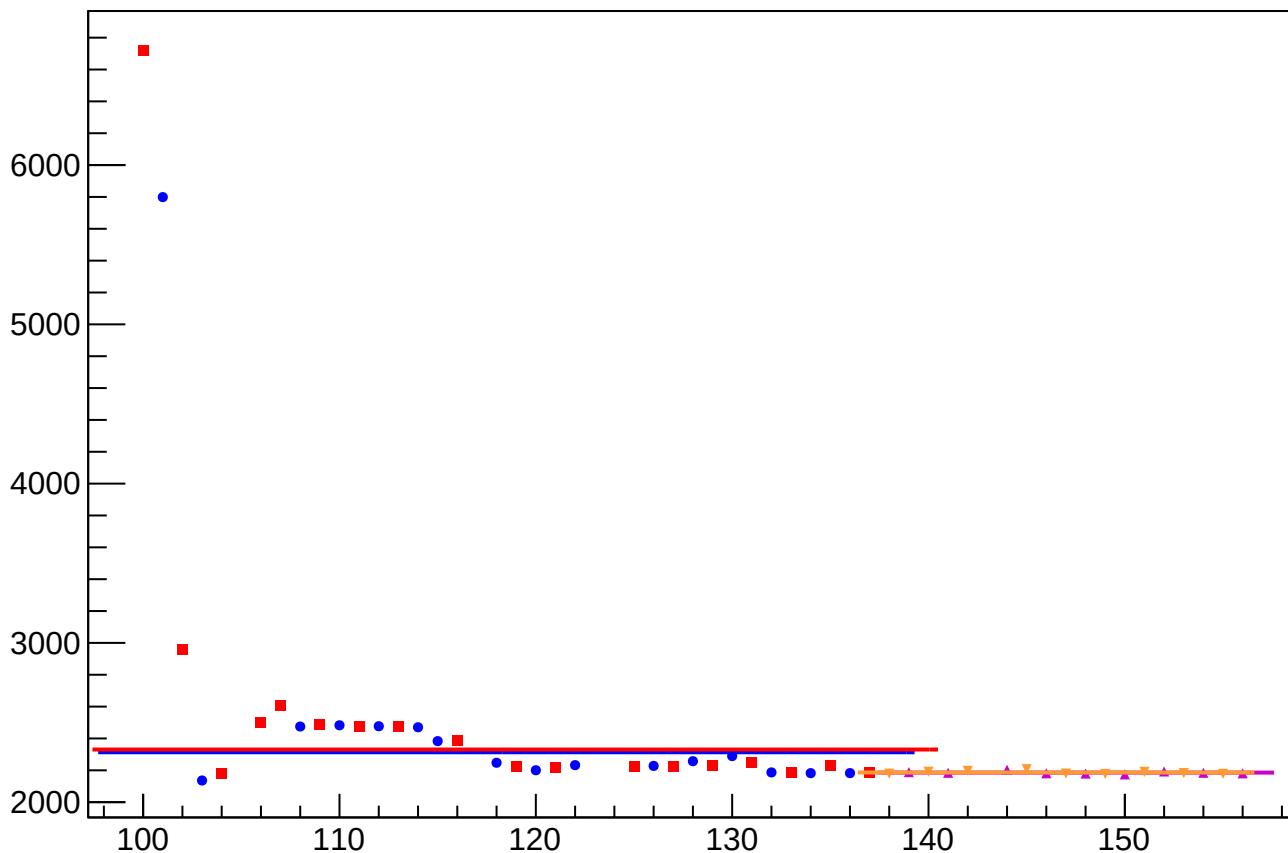
Right: 4171.006+/-617.516 χ^2/NDF : 29.6/33

In: 4337.279+/-582.490 χ^2/NDF :37.3/24

Out: 4172.178+/-598.743 χ^2/NDF :29.2/26

All: 4257.000+/-417.510 χ^2/NDF : 66.5/51

cor_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413 $\pm$ 0.619 χ^2 /NDF: 512372.3/15

Left Out: 2186.337 $\pm$ 0.583 χ^2 /NDF:269.6/8

Right Out: 2330.570 $\pm$ 0.616 χ^2 /NDF: 151556.6/17

Left In: 2185.641 $\pm$ 0.552 χ^2 /NDF:220.1/8

Left: 2185.970 $\pm$ 0.401 χ^2 /NDF: 490.5/17

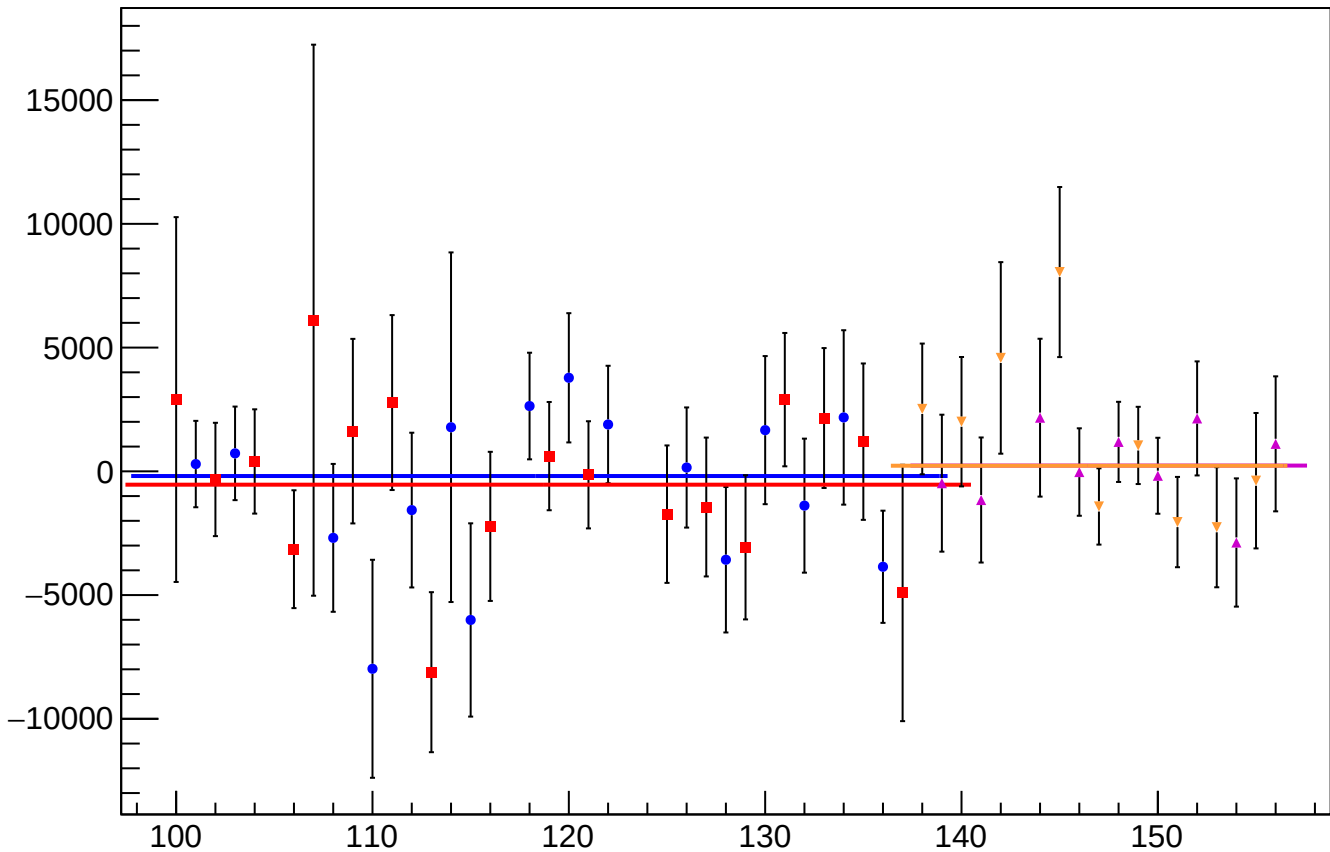
Right: 2322.028 $\pm$ 0.437 χ^2 /NDF: 664314.8/33

In: 2242.245 $\pm$ 0.412 χ^2 /NDF:536338.0/24

Out: 2254.423 $\pm$ 0.423 χ^2 /NDF:180750.5/26

All: 2248.166 $\pm$ 0.295 χ^2 /NDF: 717513.5/51

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: 226.466 $\pm$ 729.970 χ^2 /NDF:11.7/8

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: 232.630 $\pm$ 710.083 χ^2 /NDF:3.4/8

Left: 229.633 $\pm$ 508.990 χ^2 /NDF: 15.2/17

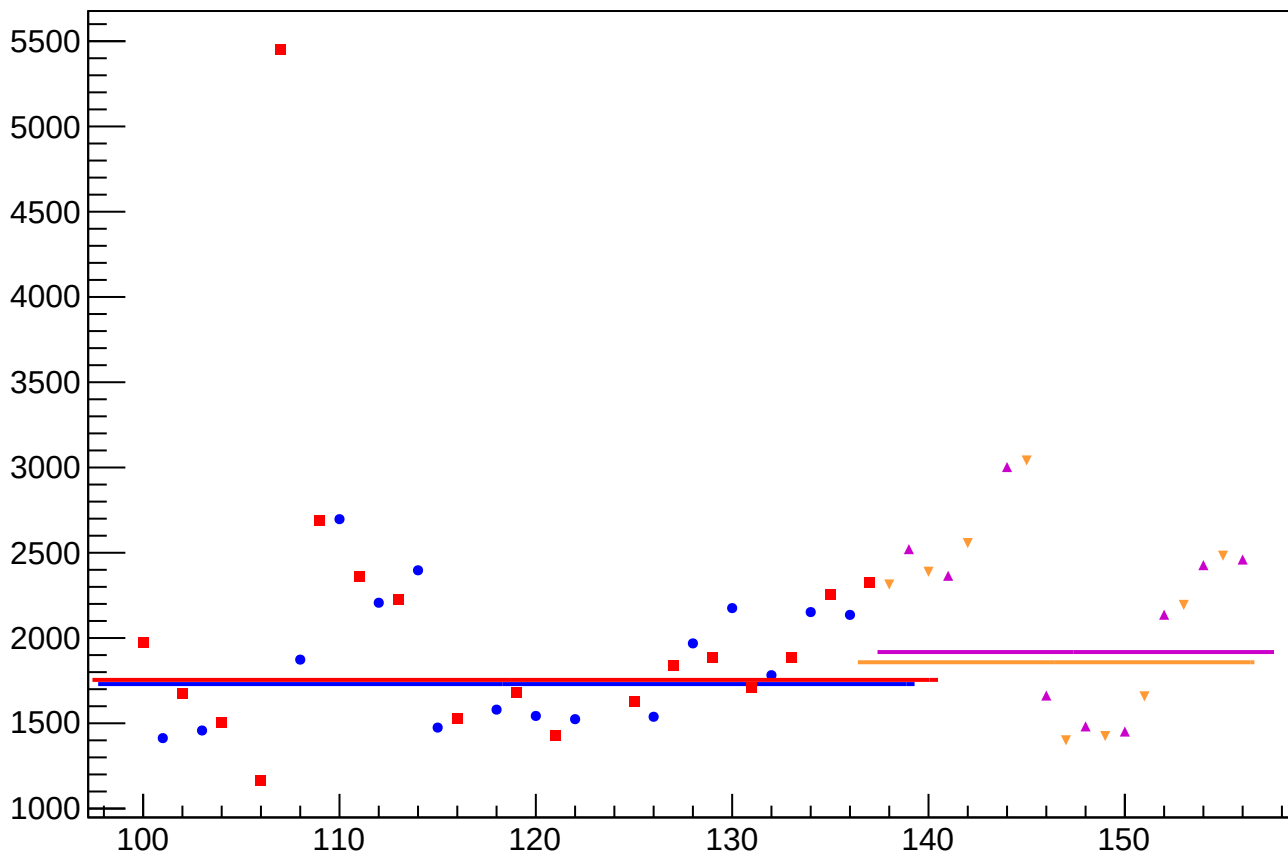
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: 5.442 $\pm$ 482.721 χ^2 /NDF:20.0/24

Out: -184.639 $\pm$ 496.860 χ^2 /NDF:26.2/26

All: -86.856 $\pm$ 346.226 χ^2 /NDF: 46.3/51

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: 1857.814 $\pm$ 0.516 χ^2 /NDF: 941580.8/8

Right Out: 1754.526 $\pm$ 0.480 χ^2 /NDF: 751010.0/17

Left In: 1917.747 $\pm$ 0.502 χ^2 /NDF: 934841.2/8

Left: 1888.608 $\pm$ 0.360 χ^2 /NDF: 1883349.1/17

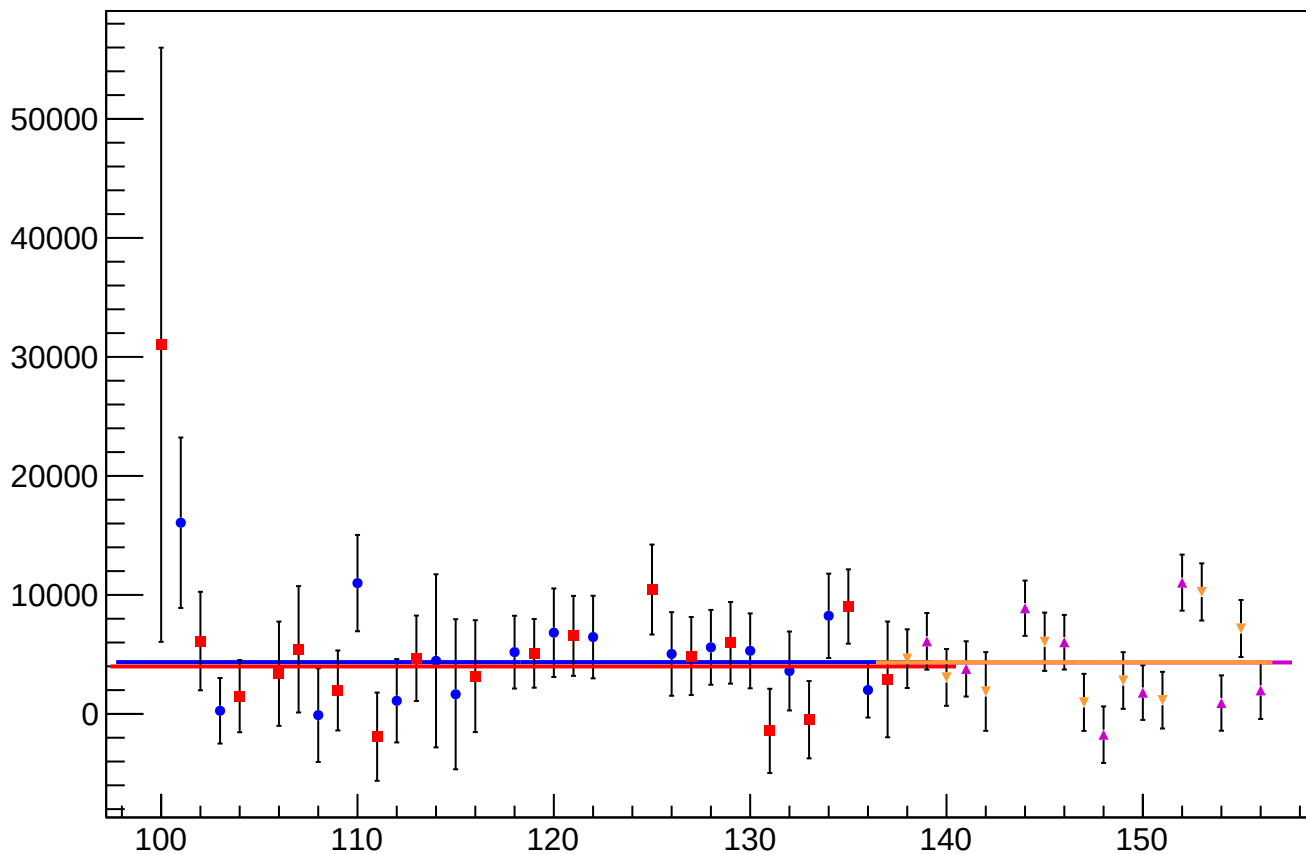
Right: 1741.844 $\pm$ 0.334 χ^2 /NDF: 1232266.3/33

In: 1816.710 $\pm$ 0.341 χ^2 /NDF: 1490022.4/24

Out: 1802.379 $\pm$ 0.351 χ^2 /NDF: 1714081.7/26

All: 1809.752 $\pm$ 0.245 χ^2 /NDF: 3204960.0/51

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4353.670 $\pm$ 875.155 χ^2 /NDF: 13.4/15

Left Out: 4335.172 $\pm$ 824.034 χ^2 /NDF:13.0/8

Right Out: 3989.884 $\pm$ 871.455 χ^2 /NDF: 16.1/17

Left In: 4324.242 $\pm$ 780.481 χ^2 /NDF:24.0/8

Left: 4329.411 $\pm$ 566.655 χ^2 /NDF: 36.9/17

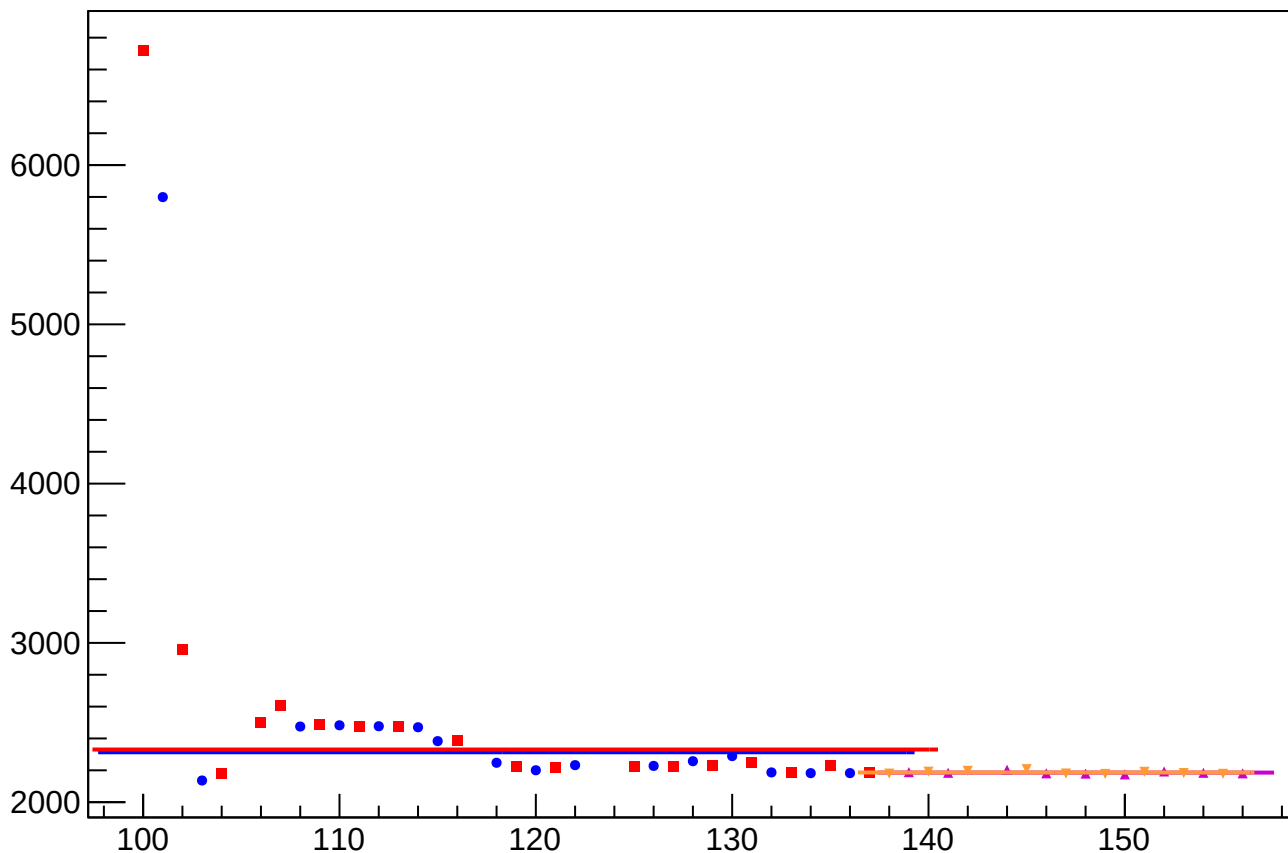
Right: 4171.006 $\pm$ 617.516 χ^2 /NDF: 29.6/33

In: 4337.279 $\pm$ 582.490 χ^2 /NDF:37.3/24

Out: 4172.178 $\pm$ 598.743 χ^2 /NDF:29.2/26

All: 4257.000 $\pm$ 417.510 χ^2 /NDF: 66.5/51

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: 2186.337 ± 0.583 χ^2/NDF : 269.6/8

Right Out: 2330.570 ± 0.616 χ^2/NDF : 151556.6/17

Left In: 2185.641 ± 0.552 χ^2/NDF : 220.1/8

Left: 2185.970 ± 0.401 χ^2/NDF : 490.5/17

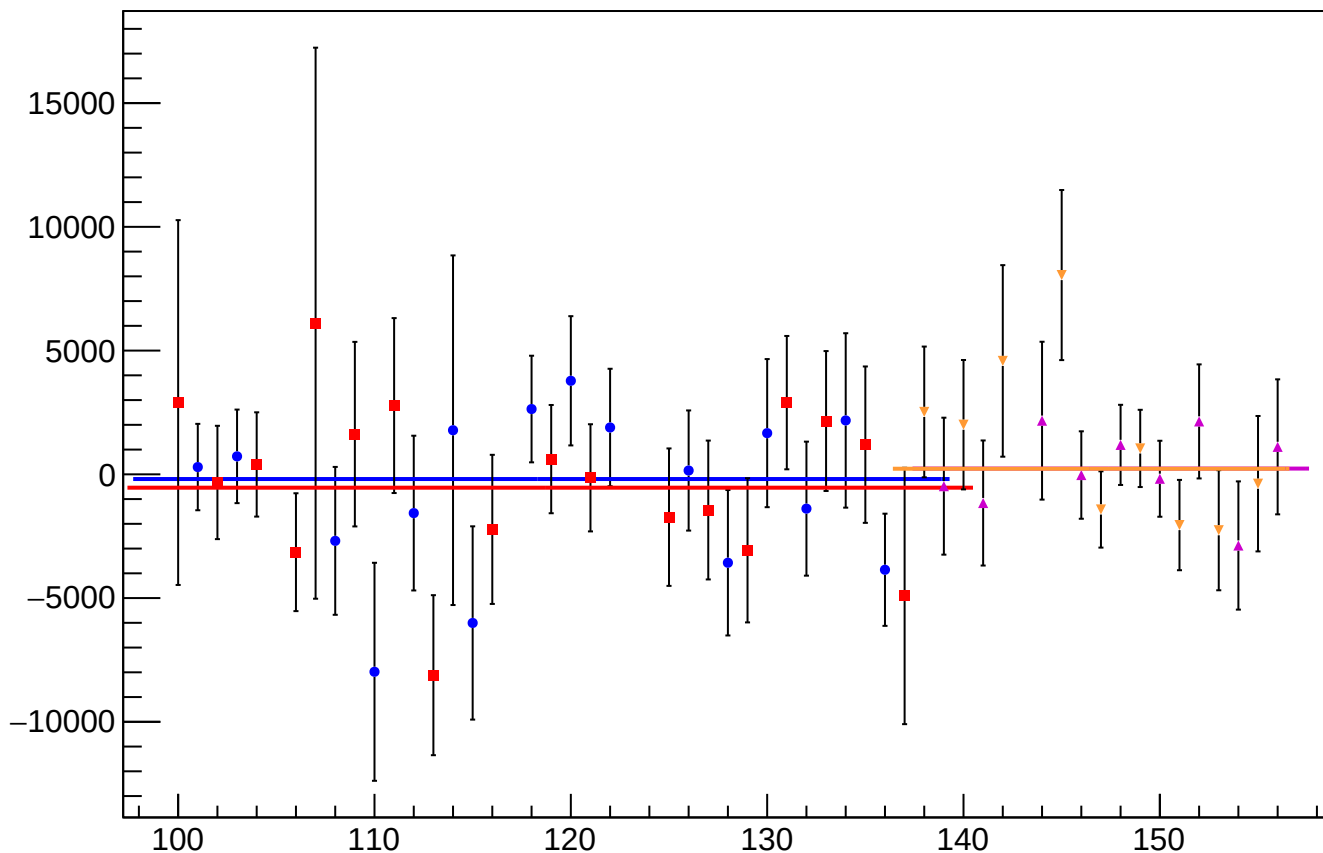
Right: 2322.028 ± 0.437 χ^2/NDF : 664314.8/33

In: 2242.245 ± 0.412 χ^2/NDF : 536338.0/24

Out: 2254.423 ± 0.423 χ^2/NDF : 180750.5/26

All: 2248.166 ± 0.295 χ^2/NDF : 717513.5/51

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: 226.466 $\pm$ 729.970 χ^2 /NDF:11.7/8

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: 232.630 $\pm$ 710.083 χ^2 /NDF:3.4/8

Left: 229.633 $\pm$ 508.990 χ^2 /NDF: 15.2/17

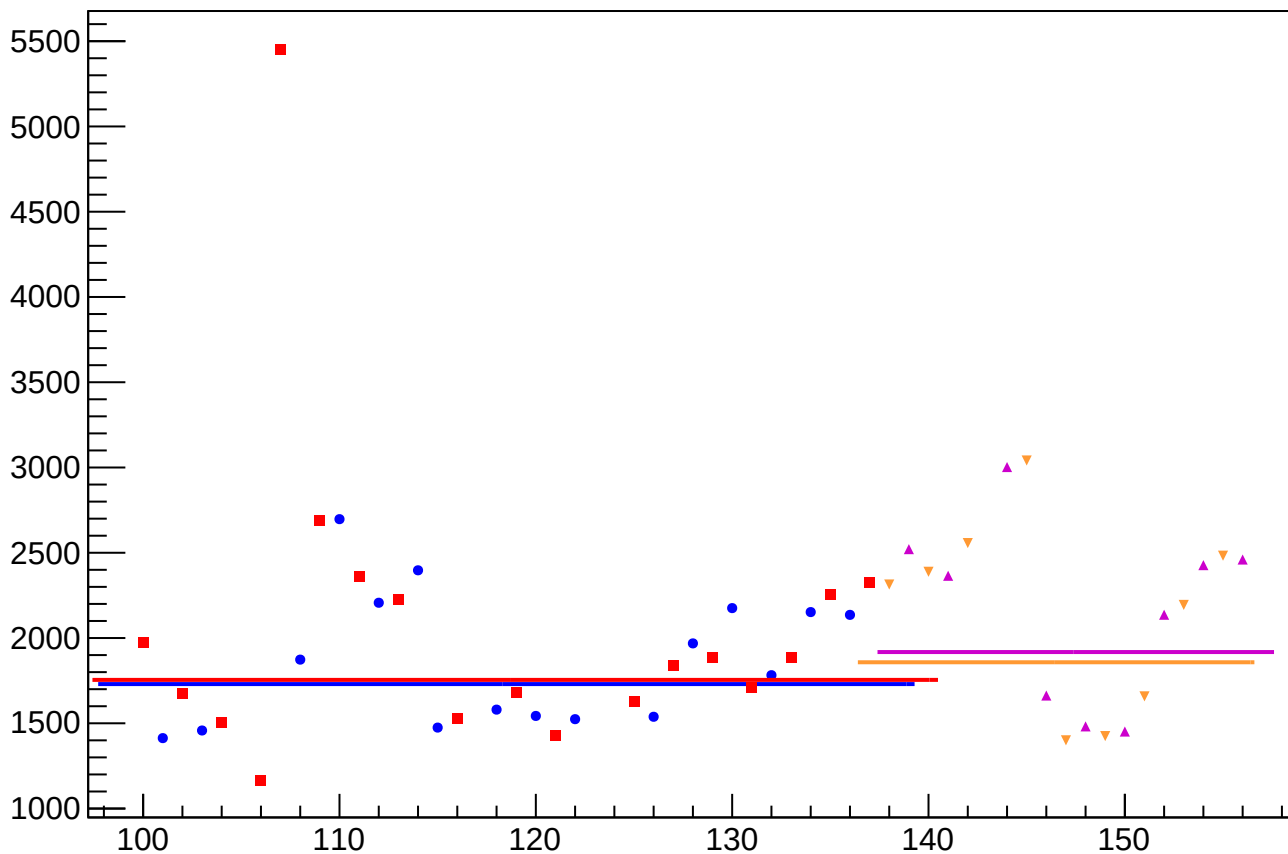
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: 5.442 $\pm$ 482.721 χ^2 /NDF:20.0/24

Out: -184.639 $\pm$ 496.860 χ^2 /NDF:26.2/26

All: -86.856 $\pm$ 346.226 χ^2 /NDF: 46.3/51

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: 1857.814 $\pm$ 0.516 χ^2 /NDF: 941580.8/8

Right Out: 1754.526 $\pm$ 0.480 χ^2 /NDF: 751010.0/17

Left In: 1917.747 $\pm$ 0.502 χ^2 /NDF: 934841.2/8

Left: 1888.608 $\pm$ 0.360 χ^2 /NDF: 1883349.1/17

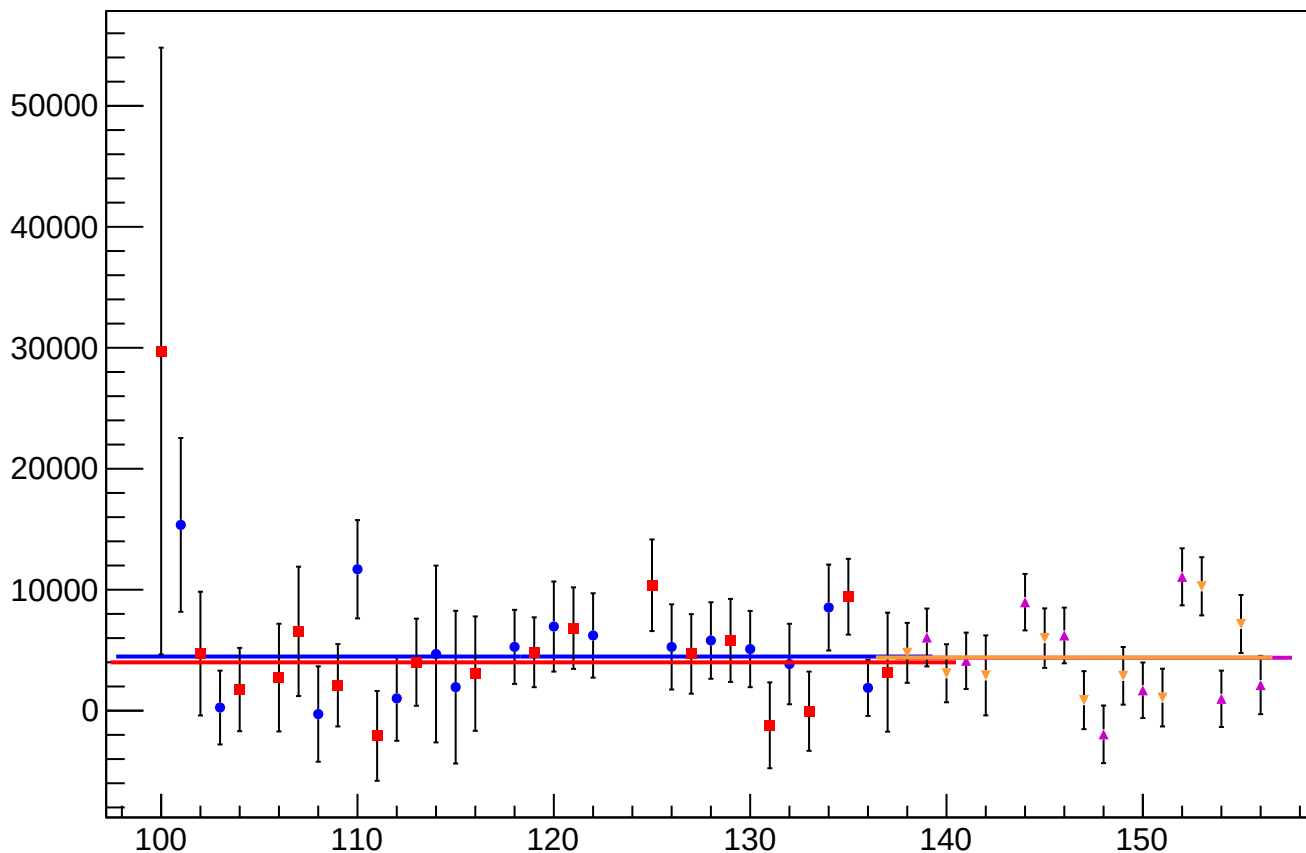
Right: 1741.844 $\pm$ 0.334 χ^2 /NDF: 1232266.3/33

In: 1816.710 $\pm$ 0.341 χ^2 /NDF: 1490022.4/24

Out: 1802.379 $\pm$ 0.351 χ^2 /NDF: 1714081.7/26

All: 1809.752 $\pm$ 0.245 χ^2 /NDF: 3204960.0/51

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: 4398.837+/-826.044 χ^2/NDF :12.8/8

Right Out: 3995.807+/-890.441 χ^2/NDF : 15.5/17

Left In: 4375.276+/-782.441 χ^2/NDF :24.5/8

Left: 4386.418+/-568.059 χ^2/NDF : 37.3/17

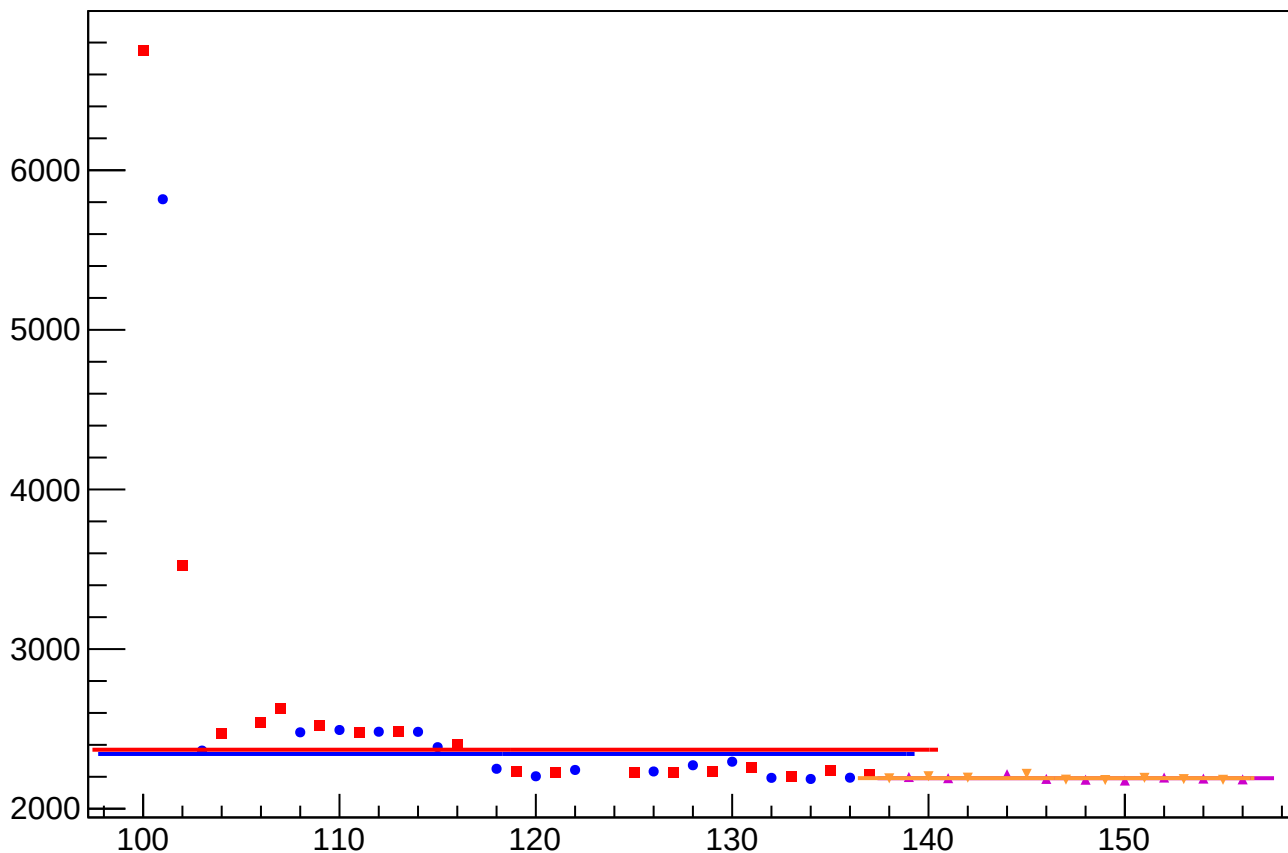
Right: 4237.297+/-628.092 χ^2/NDF : 29.2/33

In: 4419.594+/-586.507 χ^2/NDF :38.1/24

Out: 4212.421+/-605.589 χ^2/NDF :28.4/26

All: 4319.323+/-421.308 χ^2/NDF : 66.5/51

dit_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2342.914+/-0.627 χ^2/NDF : 502866.3/15

Left Out: 2191.536+/-0.584 χ^2/NDF : 422.2/8

Right Out: 2369.572+/-0.630 χ^2/NDF : 210147.5/17

Left In: 2191.031+/-0.553 χ^2/NDF : 397.3/8

Left: 2191.270+/-0.402 χ^2/NDF : 819.9/17

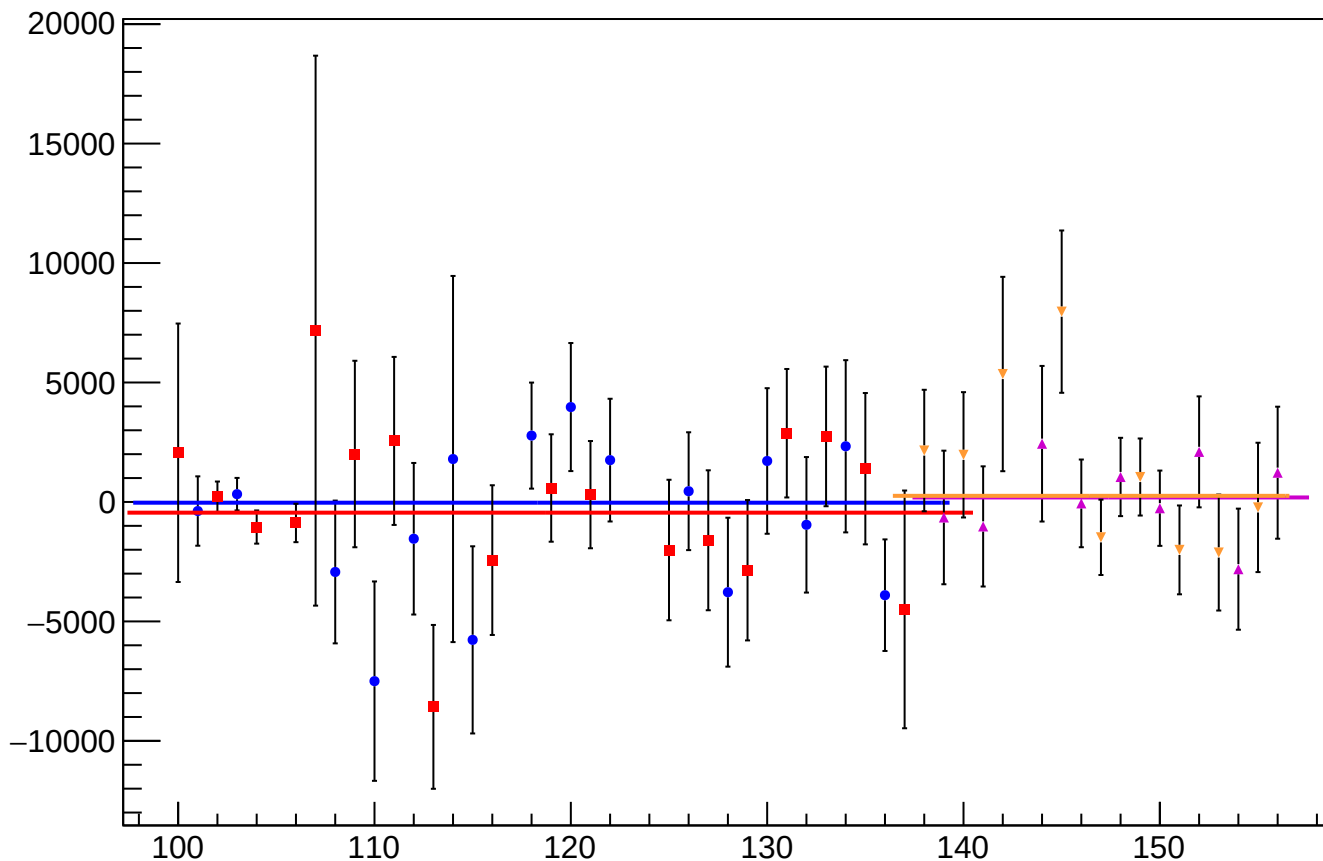
Right: 2356.178+/-0.444 χ^2/NDF : 713914.5/33

In: 2257.574+/-0.415 χ^2/NDF : 536280.8/24

Out: 2273.885+/-0.428 χ^2/NDF : 253541.9/26

All: 2265.468+/-0.298 χ^2/NDF : 790571.4/51

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.393+/-485.329 χ^2/NDF : 16.3/15

Left Out: 256.135+/-739.326 χ^2/NDF : 11.6/8

Right Out: -448.261+/-362.570 χ^2/NDF : 15.1/17

Left In: 187.980+/-720.843 χ^2/NDF : 3.4/8

Left: 221.195+/-516.123 χ^2/NDF : 15.0/17

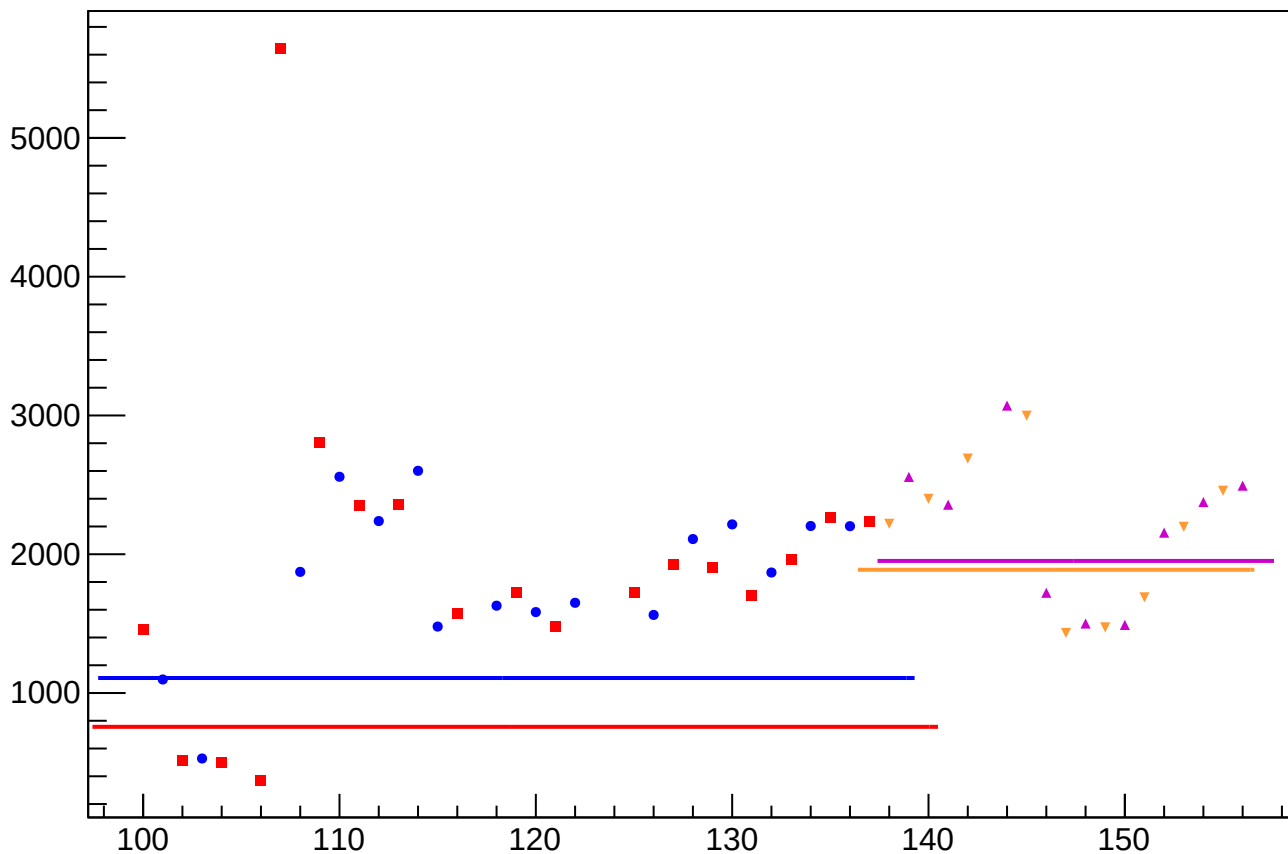
Right: -298.942+/-290.465 χ^2/NDF : 31.9/33

In: 37.032+/-402.585 χ^2/NDF : 19.8/24

Out: -311.698+/-325.532 χ^2/NDF : 27.5/26

All: -173.828+/-253.132 χ^2/NDF : 47.7/51

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1108.139+/-0.343 χ^2/NDF : 3746477.0/15

Left Out: 1888.196+/-0.523 χ^2/NDF : 844453.3/8

Right Out: 756.419+/-0.256 χ^2/NDF : 5603215.5/17

Left In: 1951.857+/-0.510 χ^2/NDF : 884646.0/8

Left: 1920.832+/-0.365 χ^2/NDF : 1736701.4/17

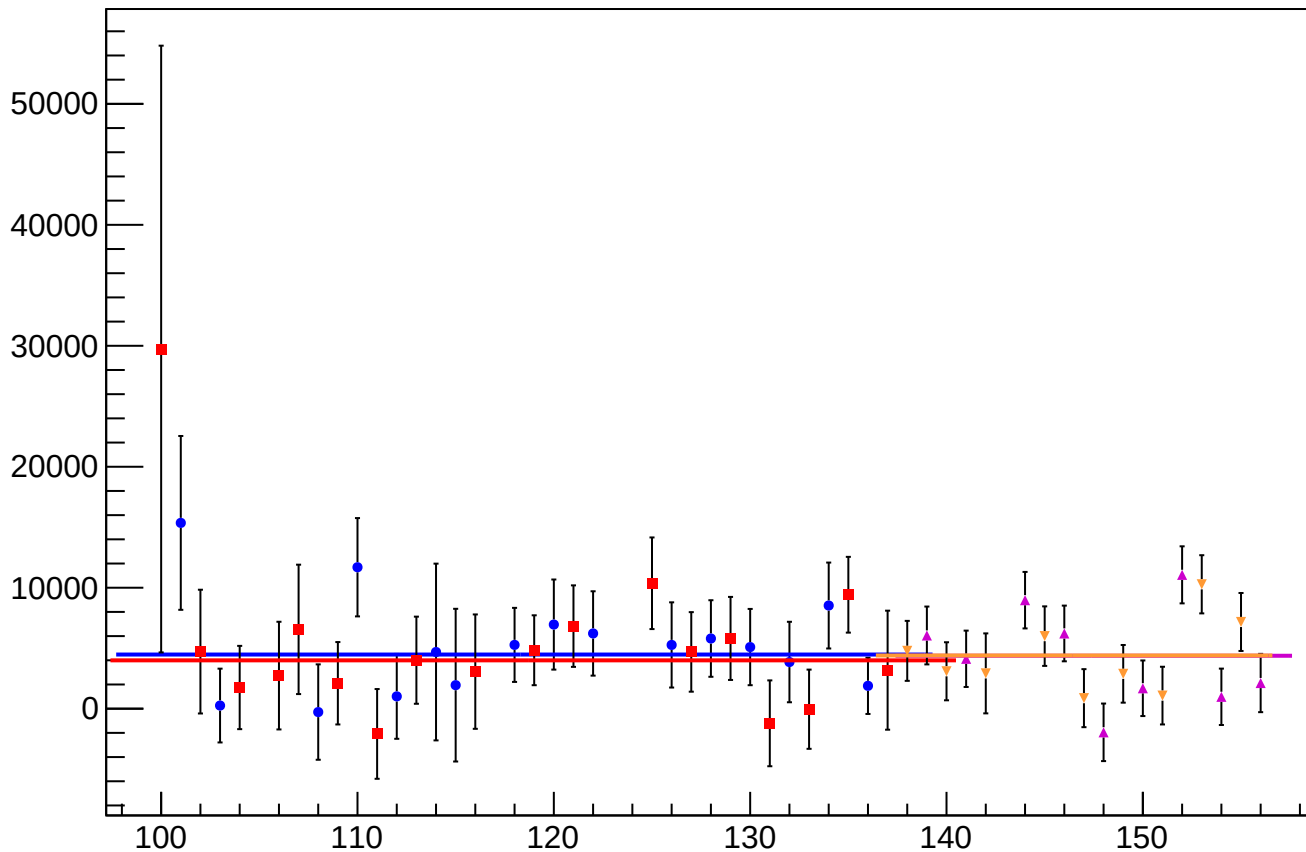
Right: 882.403+/-0.205 χ^2/NDF : 10023844.2/33

In: 1371.306+/-0.285 χ^2/NDF : 6516449.1/24

Out: 975.839+/-0.230 χ^2/NDF : 10225855.3/26

All: 1132.186+/-0.179 χ^2/NDF : 17909224.5/50

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4476.427+/-886.086 χ^2/NDF : 13.5/15

Left Out: 4398.837+/-826.044 χ^2/NDF :12.8/8

Right Out: 3995.803+/-890.441 χ^2/NDF : 15.5/17

Left In: 4375.277+/-782.441 χ^2/NDF :24.5/8

Left: 4386.419+/-568.059 χ^2/NDF : 37.3/17

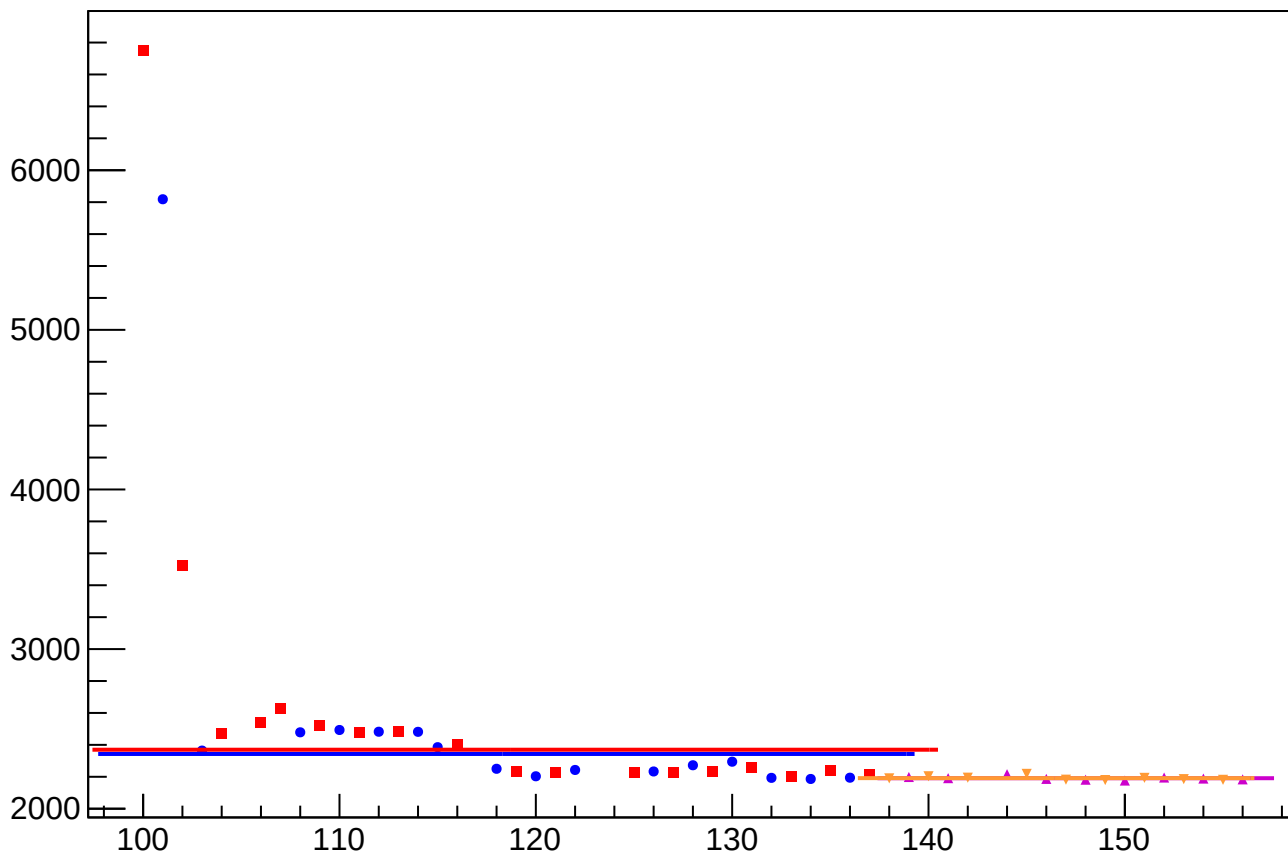
Right: 4237.293+/-628.092 χ^2/NDF : 29.2/33

In: 4419.593+/-586.507 χ^2/NDF :38.1/24

Out: 4212.419+/-605.589 χ^2/NDF :28.4/26

All: 4319.321+/-421.307 χ^2/NDF : 66.5/51

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: 2191.536+/-0.584 χ^2/NDF : 422.2/8

Right Out: 2369.572+/-0.630 χ^2/NDF : 210146.5/17

Left In: 2191.031+/-0.553 χ^2/NDF : 397.3/8

Left: 2191.270+/-0.402 χ^2/NDF : 819.9/17

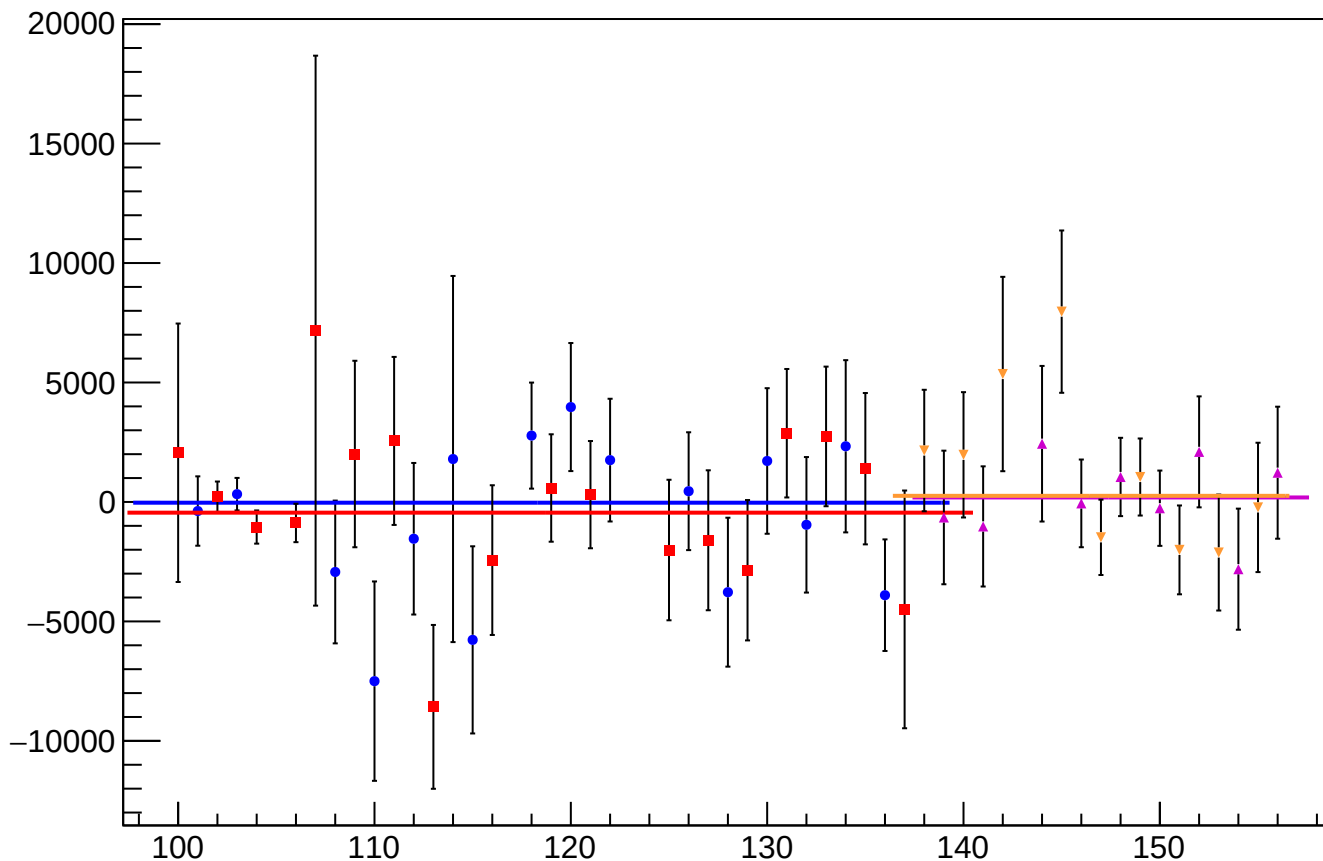
Right: 2356.177+/-0.444 χ^2/NDF : 713913.5/33

In: 2257.574+/-0.415 χ^2/NDF : 536280.6/24

Out: 2273.884+/-0.428 χ^2/NDF : 253540.5/26

All: 2265.468+/-0.298 χ^2/NDF : 790569.8/51

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.400 ± 485.331 $\chi^2/\text{NDF}: 16.3/15$

Left Out: 256.131 ± 739.327 $\chi^2/\text{NDF}: 11.6/8$

Right Out: -448.265 ± 362.575 $\chi^2/\text{NDF}: 15.1/17$

Left In: 187.981 ± 720.844 $\chi^2/\text{NDF}: 3.4/8$

Left: 221.193 ± 516.124 $\chi^2/\text{NDF}: 15.0/17$

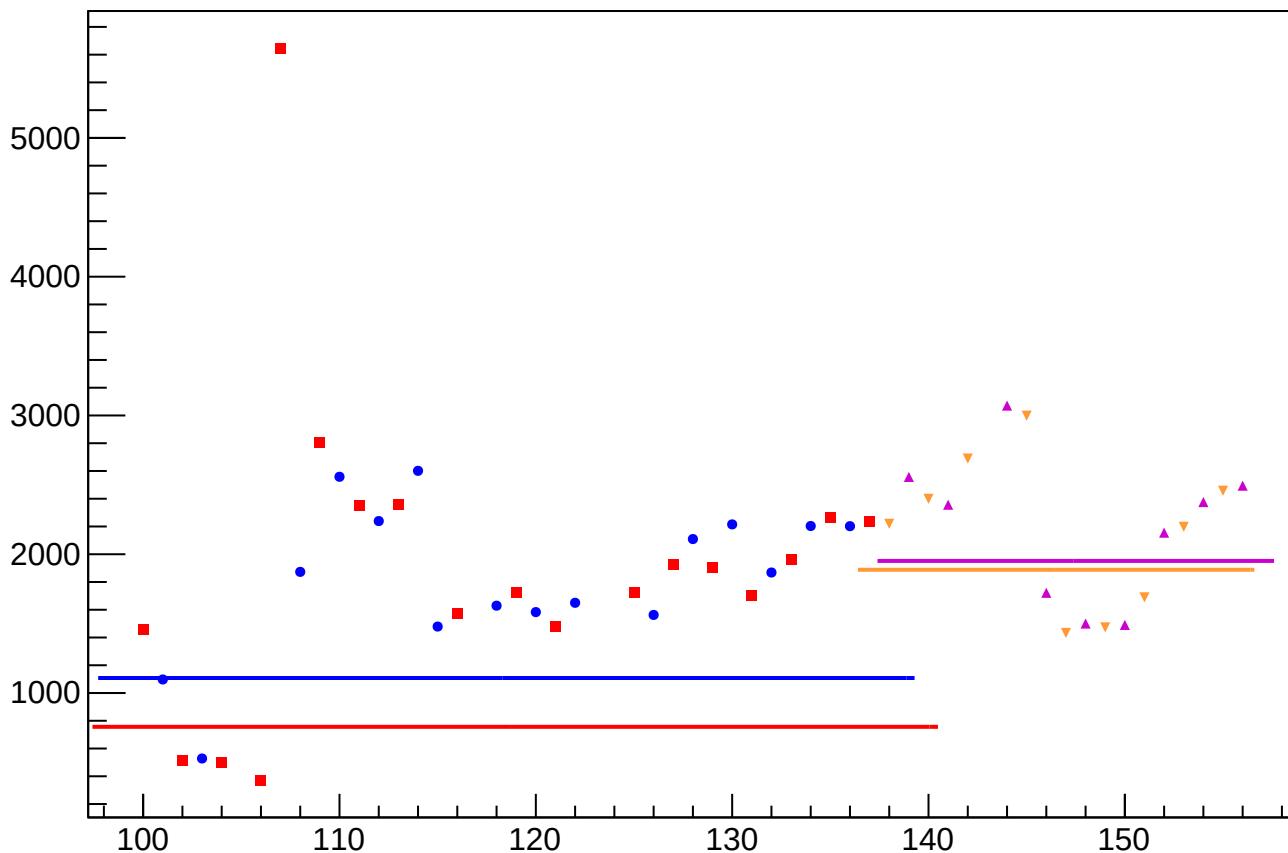
Right: -298.945 ± 290.468 $\chi^2/\text{NDF}: 31.9/33$

In: 37.028 ± 402.587 $\chi^2/\text{NDF}: 19.8/24$

Out: -311.699 ± 325.536 $\chi^2/\text{NDF}: 27.5/26$

All: -173.830 ± 253.134 $\chi^2/\text{NDF}: 47.7/51$

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: 1888.199+/-0.523

χ^2/NDF : 844453.3/8

Right Out: 756.434+/-0.256

χ^2/NDF : 5603097.5/17

Left In: 1951.860+/-0.510

χ^2/NDF : 884645.2/8

Left: 1920.835+/-0.365

χ^2/NDF : 1736700.6/17

Right: 882.417+/-0.205

χ^2/NDF : 10023620.2/33

In: 1371.315+/-0.285

χ^2/NDF : 6516333.9/24

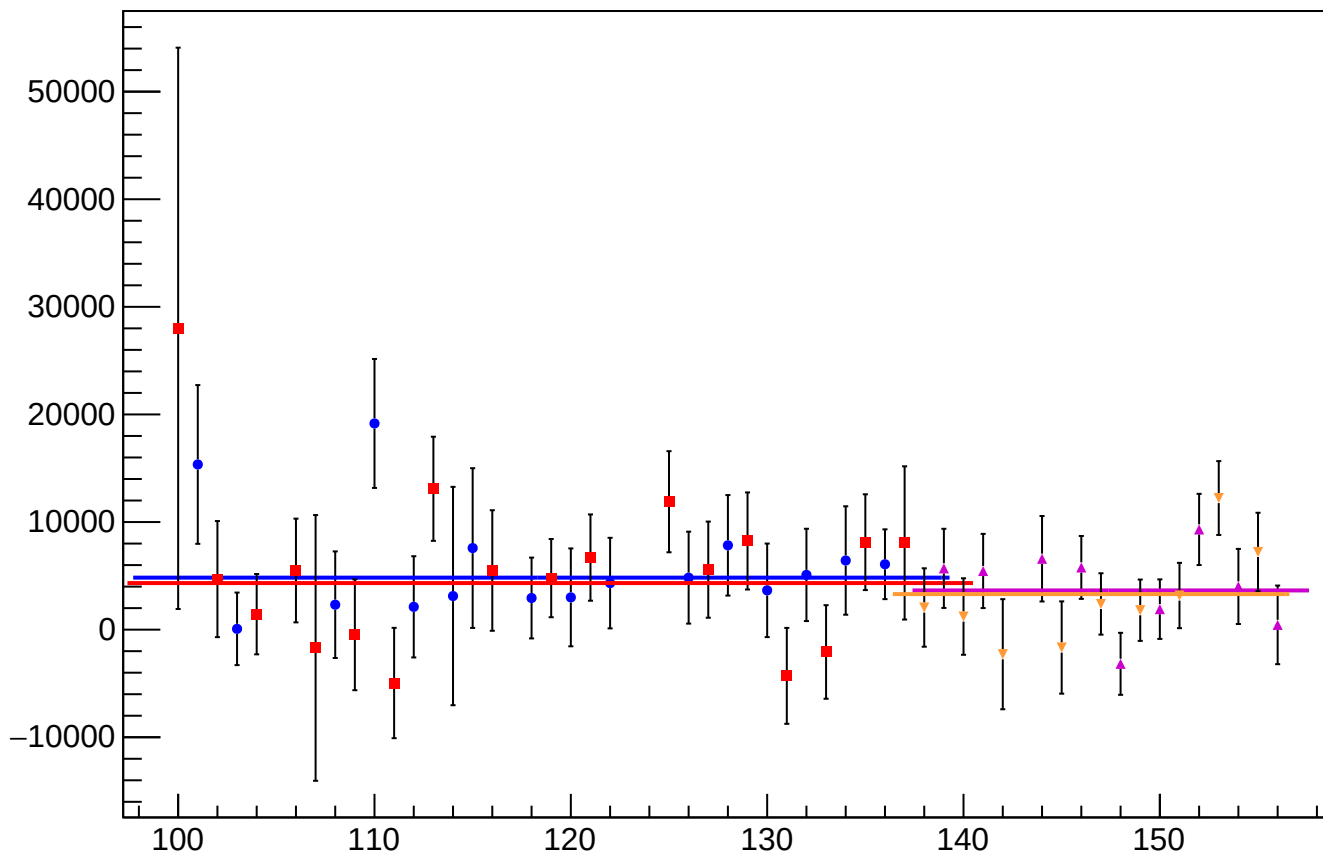
Out: 975.856+/-0.230

χ^2/NDF : 10225628.3/26

All: 1132.201+/-0.179

χ^2/NDF : 17908821.0/5

asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4833.806+/-1142.535 χ^2/NDF : 11.7/15

Left Out: 3302.895+/-1145.651 χ^2/NDF : 11.3/8

Right Out: 4328.601+/-1144.541 χ^2/NDF : 19.9/17

Left In: 3644.656+/-1092.336 χ^2/NDF : 11.4/8

Left: 3481.913+/-790.575 χ^2/NDF : 22.7/17

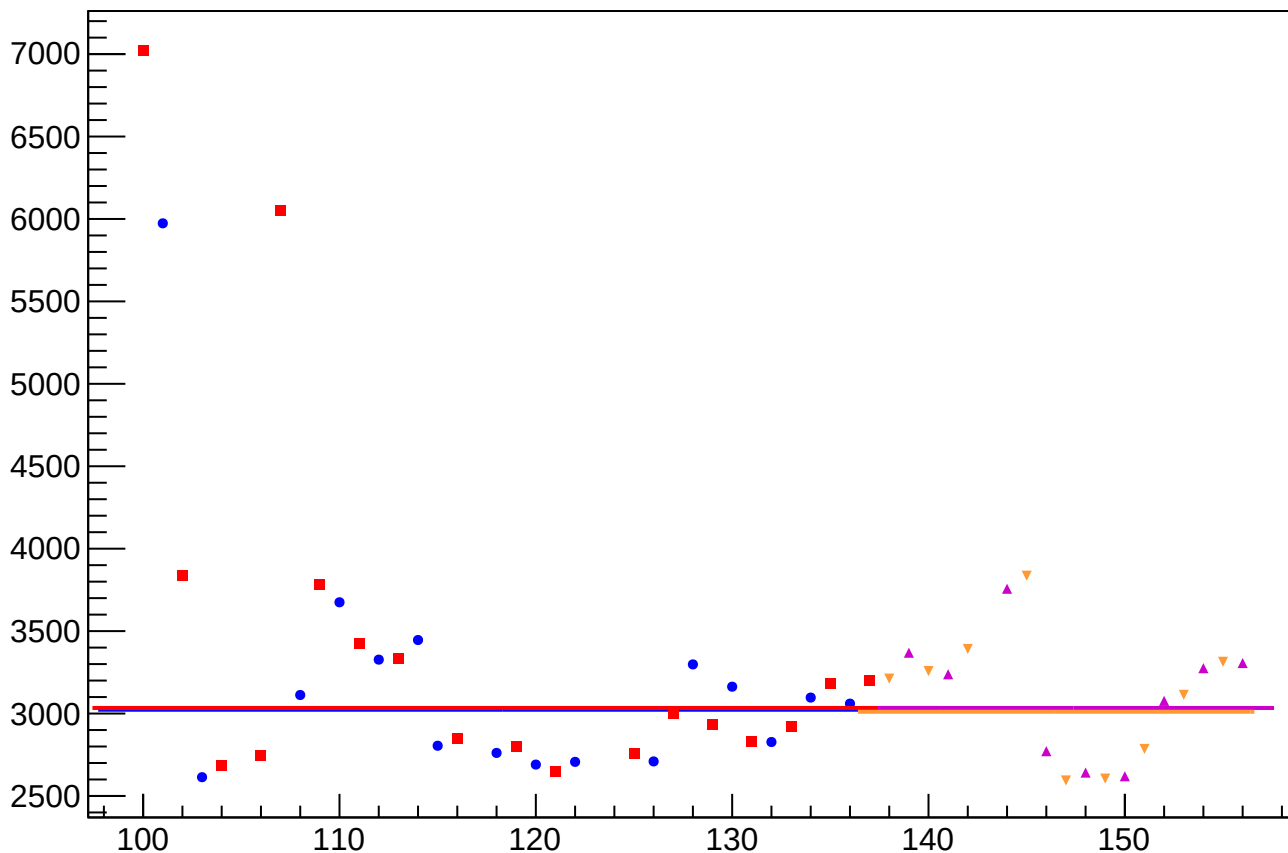
Right: 4581.647+/-808.603 χ^2/NDF : 31.7/33

In: 4212.535+/-789.548 χ^2/NDF : 23.6/24

Out: 3816.245+/-809.705 χ^2/NDF : 31.6/26

All: 4019.384+/-565.287 χ^2/NDF : 55.3/51

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: 3010.822+/-0.810 χ^2/NDF : 210711.8/8

Right Out: 3033.869+/-0.809 χ^2/NDF : 342674.7/17

Left In: 3033.727+/-0.772 χ^2/NDF : 208959.8/8

Left: 3022.820+/-0.559 χ^2/NDF : 420090.4/17

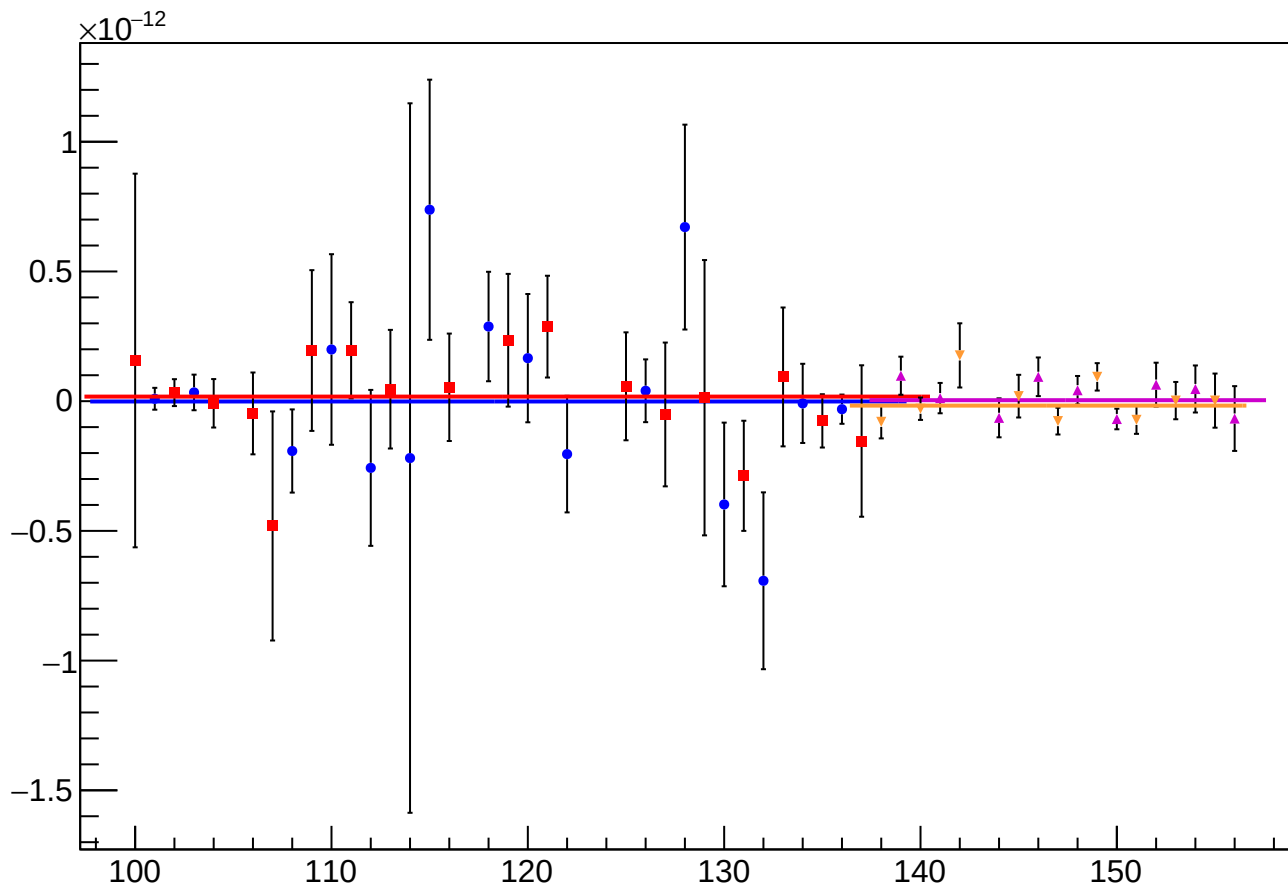
Right: 3028.459+/-0.572 χ^2/NDF : 786469.7/33

In: 3028.637+/-0.558 χ^2/NDF : 652756.6/24

Out: 3022.357+/-0.573 χ^2/NDF : 553791.6/26

All: 3025.576+/-0.400 χ^2/NDF : 1206609.8/51

asym_us_avg_at1lr_avg_avg_reg_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 : 10.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 9.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 8.8/8

Left: -0.000+/-0.000 χ^2/NDF : 19.9/17

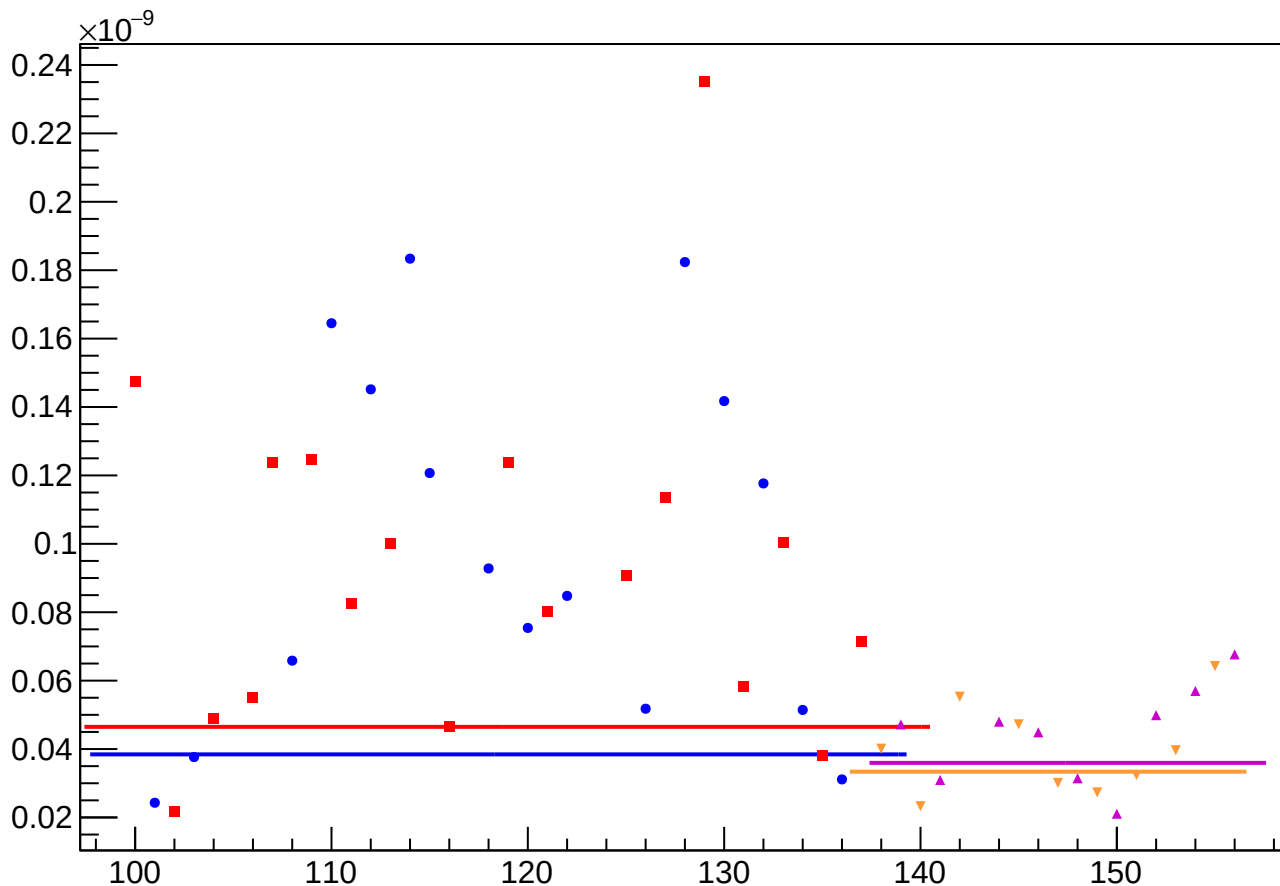
Right: 0.000+/-0.000 χ^2/NDF : 26.3/33

In: 0.000+/-0.000 χ^2/NDF : 25.9/24

Out: -0.000+/-0.000 χ^2/NDF : 20.3/26

All: -0.000+/-0.000 χ^2/NDF : 46.4/51

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 : 476780.3/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1697135.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 726322.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1217965.4/17

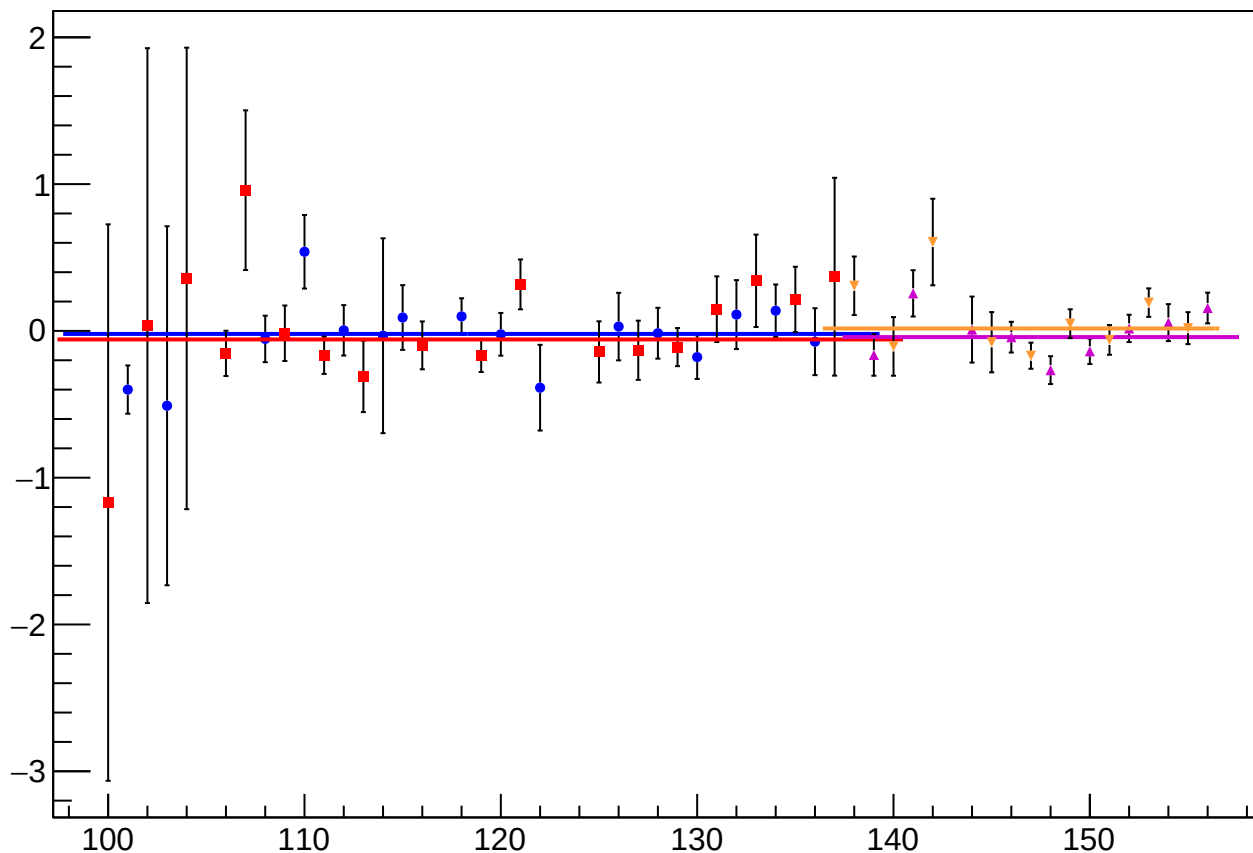
Right: 0.000+/-0.000 χ^2/NDF : 3535596.3/33

In: 0.000+/-0.000 χ^2/NDF : 2507880.0/24

Out: 0.000+/-0.000 χ^2/NDF : 2386736.5/26

All: 0.000+/-0.000 χ^2/NDF : 4894649.8/51

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 0.017 ± 0.041 $\chi^2/\text{NDF}: 15.0/8$

Right Out: -0.058 ± 0.046 $\chi^2/\text{NDF}: 16.8/17$

Left In: -0.042 ± 0.037 $\chi^2/\text{NDF}: 15.8/8$

Left: -0.015 ± 0.028 $\chi^2/\text{NDF}: 32.0/17$

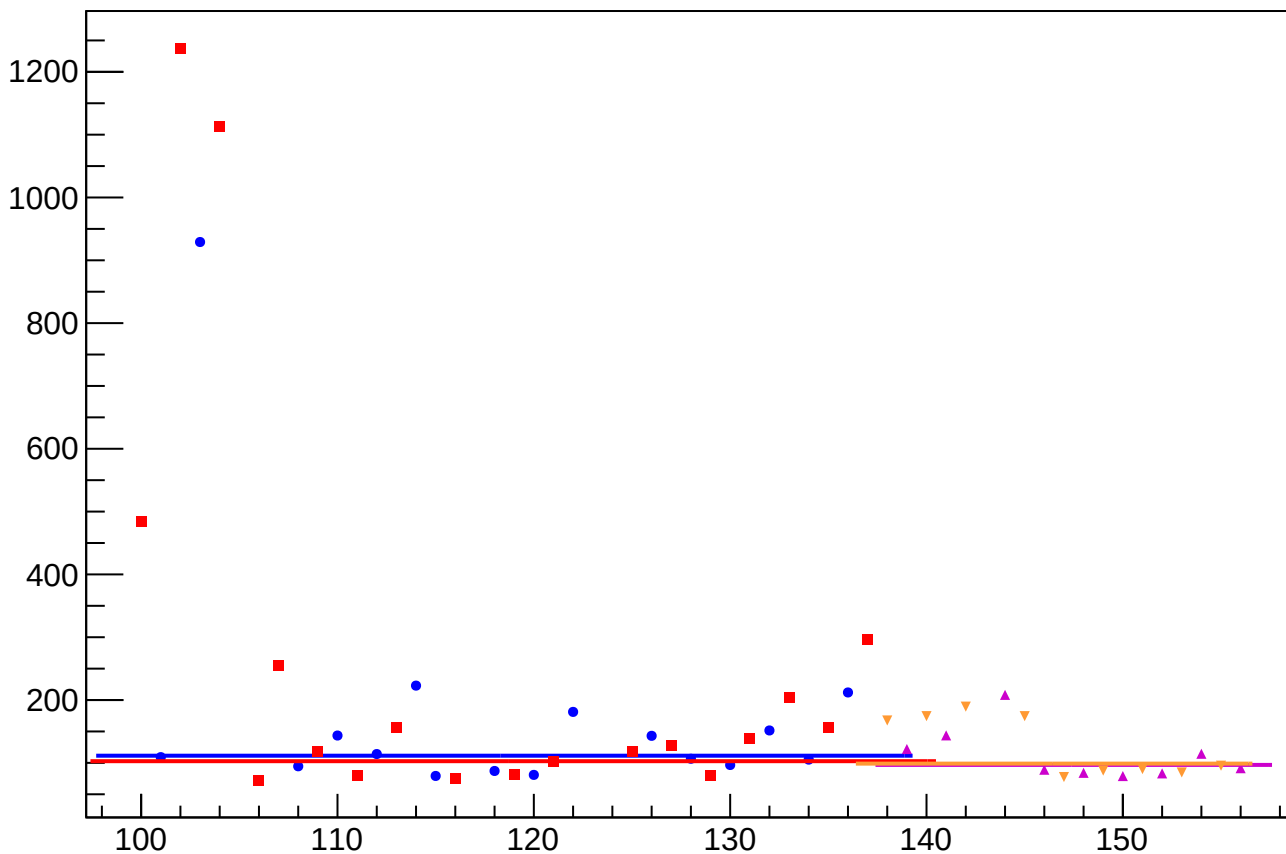
Right: -0.040 ± 0.033 $\chi^2/\text{NDF}: 32.8/33$

In: -0.034 ± 0.029 $\chi^2/\text{NDF}: 31.6/24$

Out: -0.016 ± 0.031 $\chi^2/\text{NDF}: 33.4/26$

All: -0.025 ± 0.021 $\chi^2/\text{NDF}: 65.1/51$

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: 98.791 $\pm$ 0.029 χ^2 /NDF: 1182898.6/8

Right Out: 102.673 $\pm$ 0.033 χ^2 /NDF: 2826852.7/17

Left In: 96.743 $\pm$ 0.026 χ^2 /NDF: 949874.6/8

Left: 97.680 $\pm$ 0.019 χ^2 /NDF: 2135519.7/17

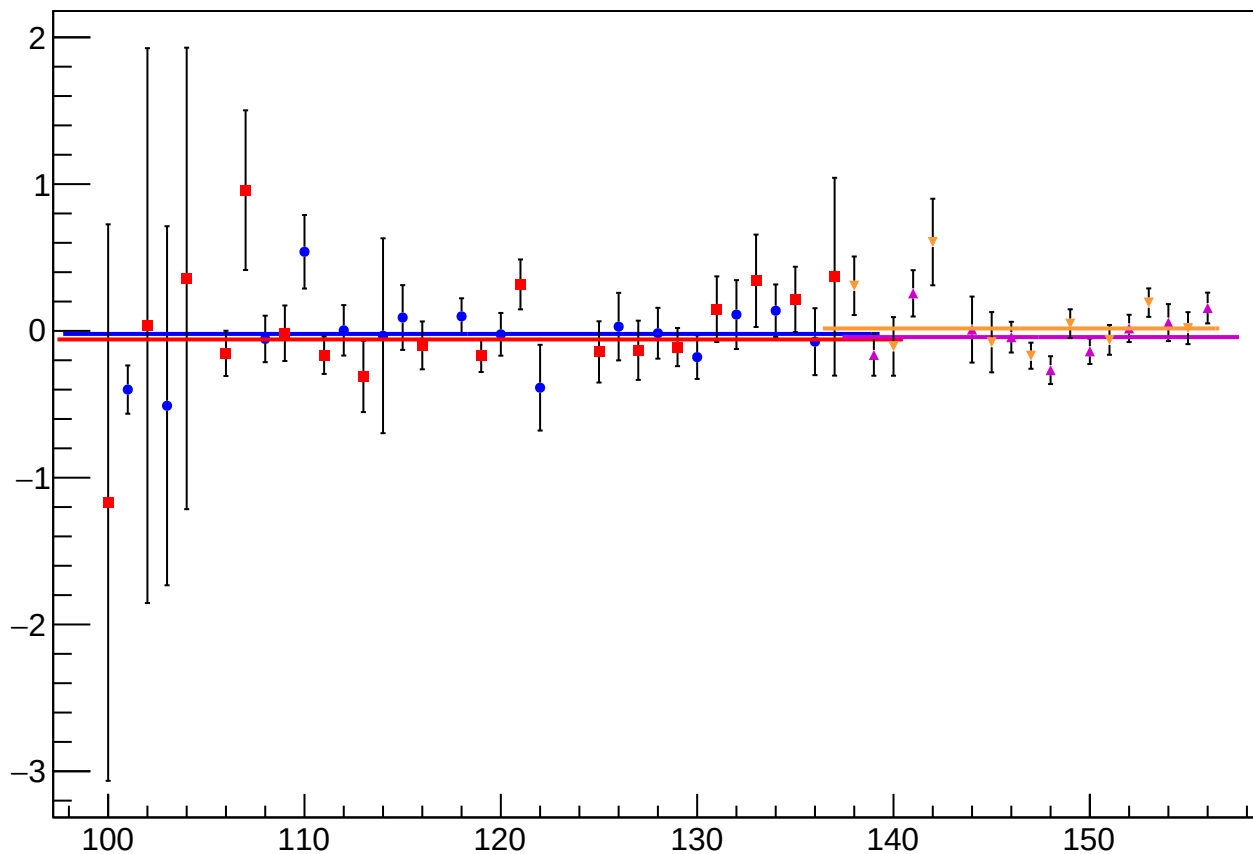
Right: 106.926 $\pm$ 0.024 χ^2 /NDF: 4700716.0/33

In: 102.335 $\pm$ 0.021 χ^2 /NDF: 2906518.3/24

Out: 100.479 $\pm$ 0.022 χ^2 /NDF: 4017659.2/26

All: 101.444 $\pm$ 0.015 χ^2 /NDF: 6927999.5/51

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: 0.017 ± 0.041 χ^2/NDF : 15.0/8

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: -0.042 ± 0.037 χ^2/NDF : 15.8/8

Left: -0.015 ± 0.028 χ^2/NDF : 32.0/17

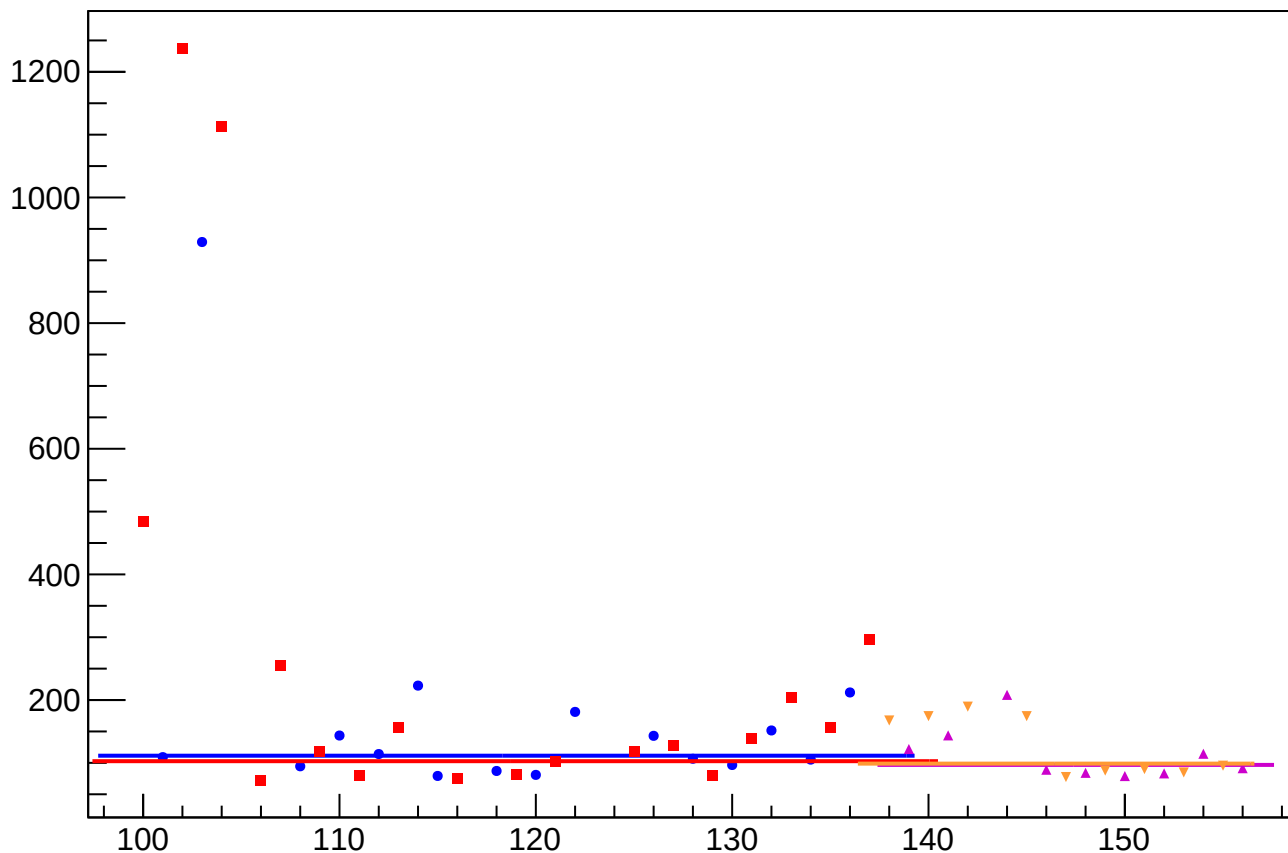
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.034 ± 0.029 χ^2/NDF : 31.6/24

Out: -0.016 ± 0.031 χ^2/NDF : 33.4/26

All: -0.025 ± 0.021 χ^2/NDF : 65.1/51

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: 98.791 $\pm$ 0.029 χ^2 /NDF: 1182898.6/8

Right Out: 102.673 $\pm$ 0.033 χ^2 /NDF: 2826852.7/17

Left In: 96.743 $\pm$ 0.026 χ^2 /NDF: 949874.6/8

Left: 97.680 $\pm$ 0.019 χ^2 /NDF: 2135519.7/17

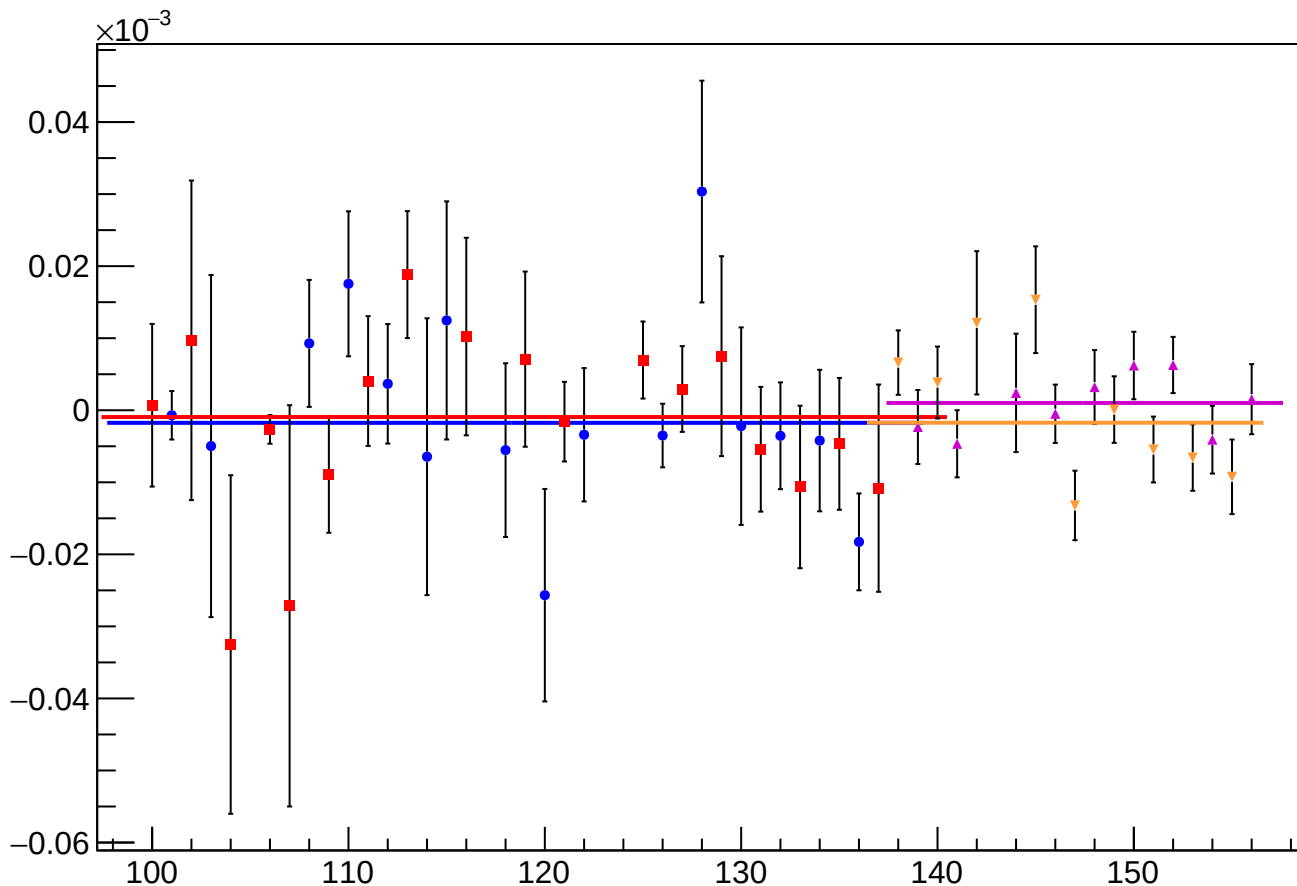
Right: 106.926 $\pm$ 0.024 χ^2 /NDF: 4700716.0/33

In: 102.335 $\pm$ 0.021 χ^2 /NDF: 2906518.3/24

Out: 100.479 $\pm$ 0.022 χ^2 /NDF: 4017659.2/26

All: 101.444 $\pm$ 0.015 χ^2 /NDF: 6927999.5/51

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 : 21.7/8

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.7/17

Left In: 0.000 ± 0.000 χ^2/NDF : 6.5/8

Left: -0.000 ± 0.000 χ^2/NDF : 29.5/17

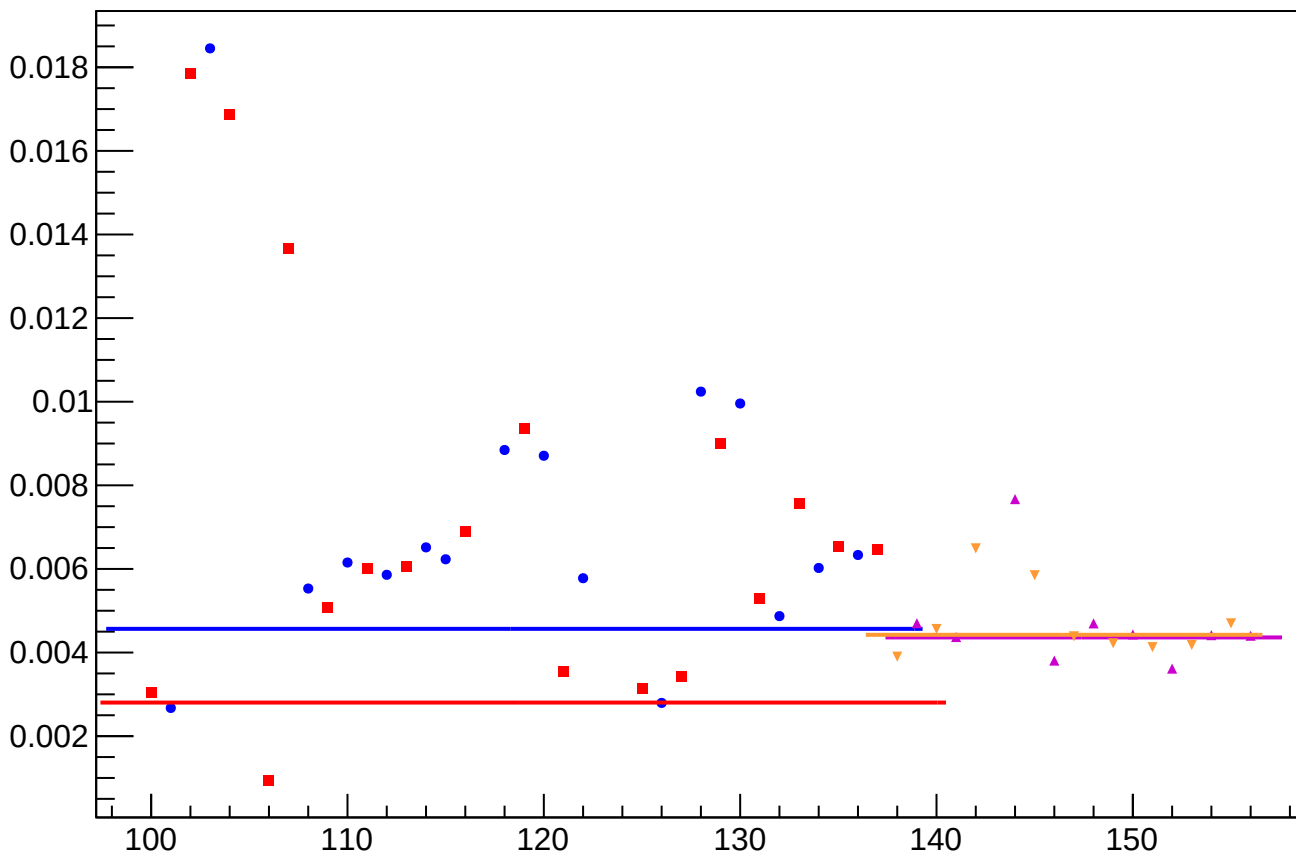
Right: -0.000 ± 0.000 χ^2/NDF : 35.9/33

In: -0.000 ± 0.000 χ^2/NDF : 27.7/24

Out: -0.000 ± 0.000 χ^2/NDF : 37.5/26

All: -0.000 ± 0.000 χ^2/NDF : 65.8/51

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 : 213059.4/8

Right Out: 0.003+/-0.000 χ^2/NDF : 6610011.8/17

Left In: 0.004+/-0.000 χ^2/NDF : 453330.2/8

Left: 0.004+/-0.000 χ^2/NDF : 667843.4/17

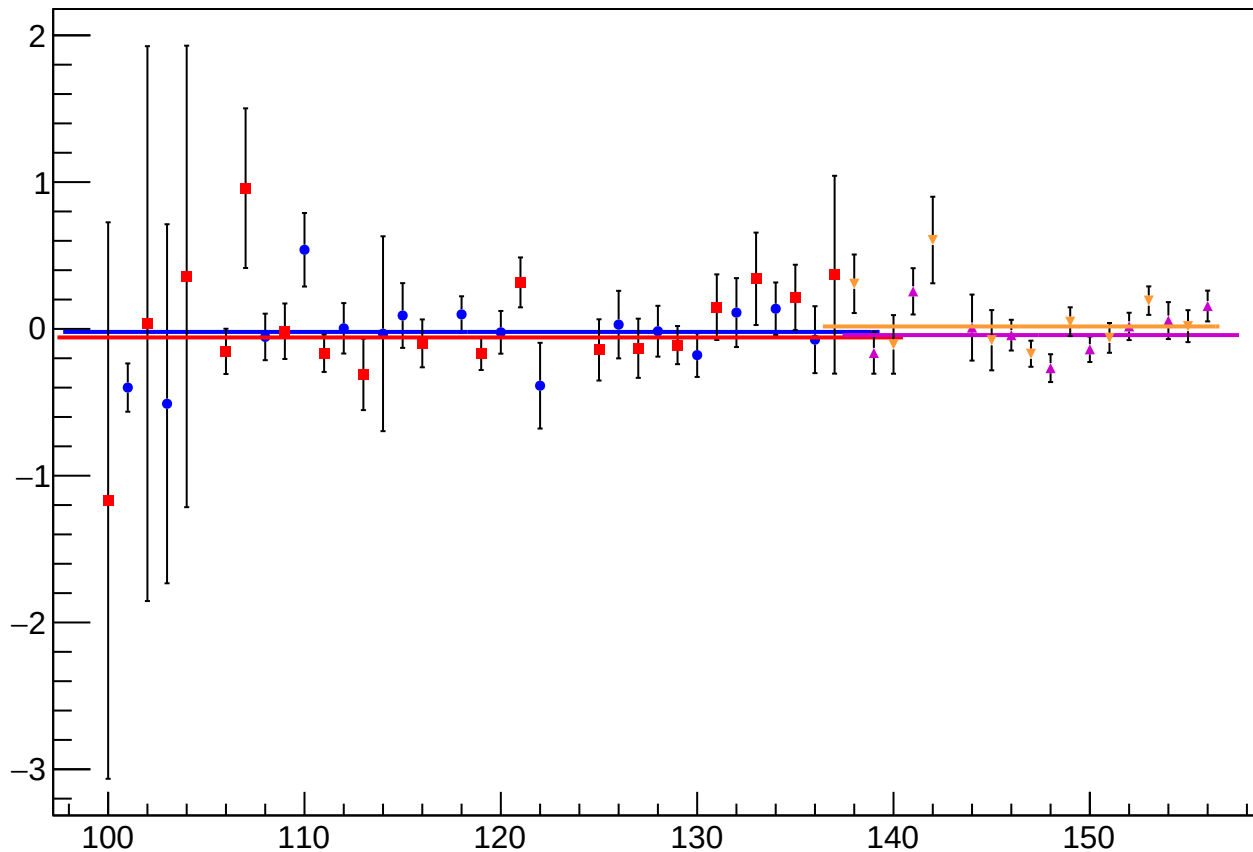
Right: 0.003+/-0.000 χ^2/NDF : 10674508.6/33

In: 0.004+/-0.000 χ^2/NDF : 3479112.1/24

Out: 0.003+/-0.000 χ^2/NDF : 7849226.6/26

All: 0.004+/-0.000 χ^2/NDF : 11982105.5/51

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: 0.017 ± 0.041 χ^2/NDF : 15.1/8

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: -0.042 ± 0.037 χ^2/NDF : 15.8/8

Left: -0.015 ± 0.028 χ^2/NDF : 32.0/17

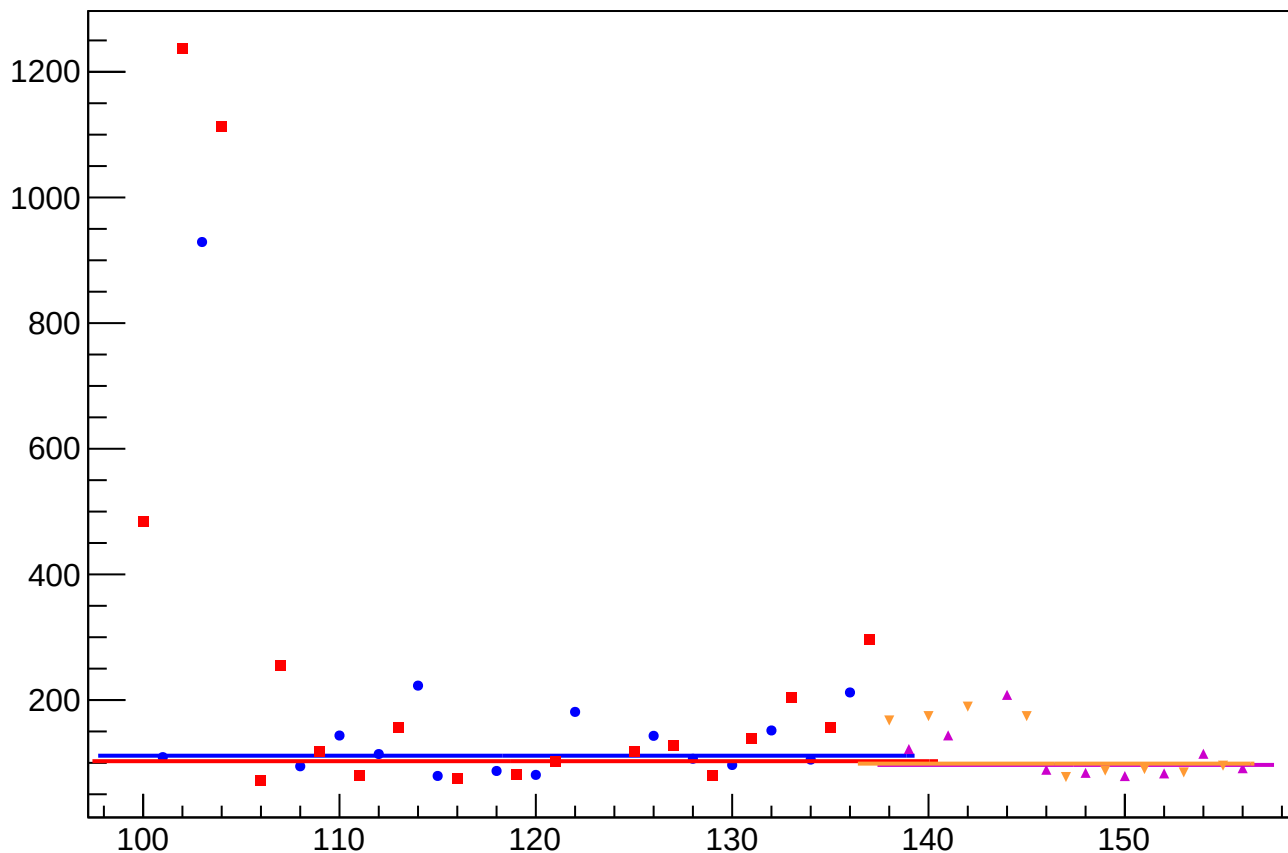
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.034 ± 0.029 χ^2/NDF : 31.6/24

Out: -0.016 ± 0.031 χ^2/NDF : 33.4/26

All: -0.025 ± 0.021 χ^2/NDF : 65.1/51

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: 98.792 $\pm$ 0.029 χ^2 /NDF: 1182880.2/8

Right Out: 102.671 $\pm$ 0.033 χ^2 /NDF: 2826848.2/17

Left In: 96.743 $\pm$ 0.026 χ^2 /NDF: 949861.6/8

Left: 97.681 $\pm$ 0.019 χ^2 /NDF: 2135487.9/17

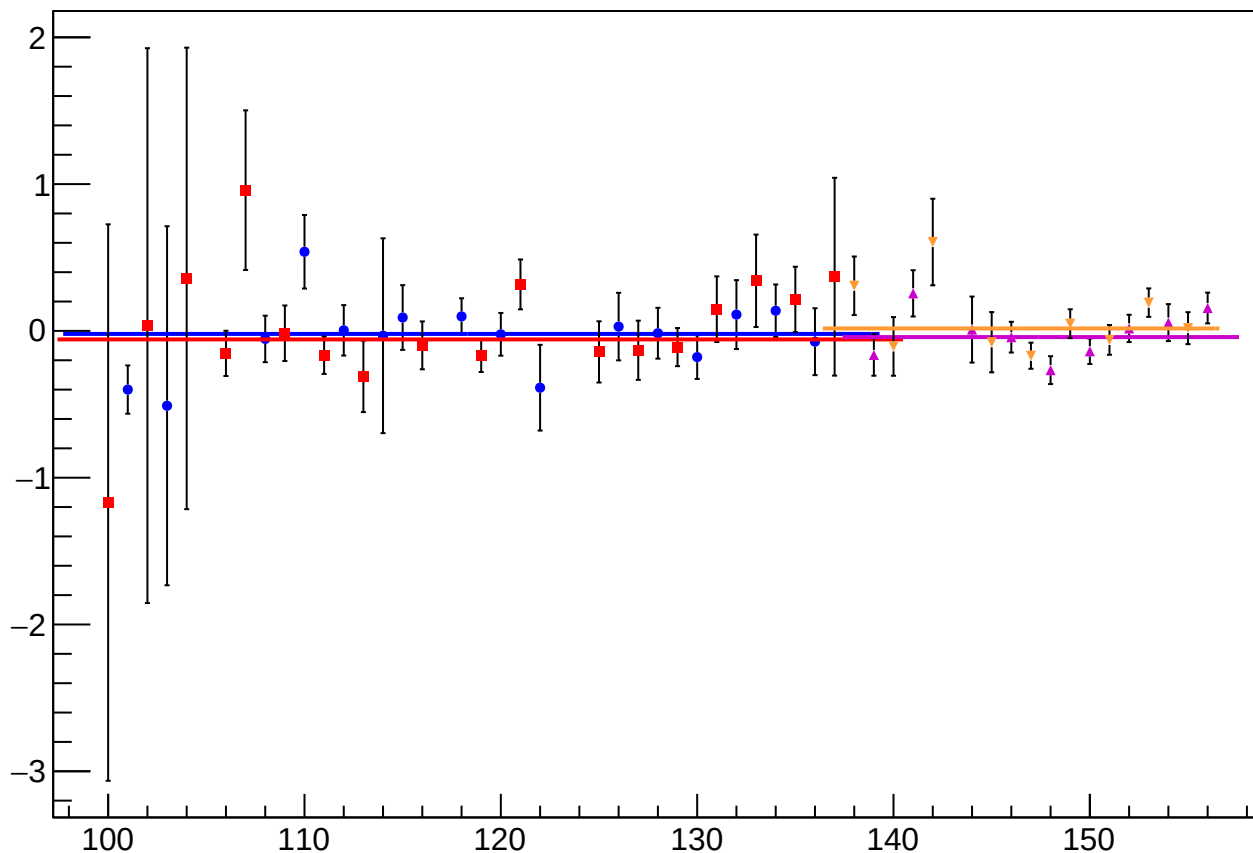
Right: 106.924 $\pm$ 0.024 χ^2 /NDF: 4700749.9/33

In: 102.334 $\pm$ 0.021 χ^2 /NDF: 2906504.8/24

Out: 100.479 $\pm$ 0.022 χ^2 /NDF: 4017629.1/26

All: 101.443 $\pm$ 0.015 χ^2 /NDF: 6927955.5/51

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: 0.017 ± 0.041 χ^2/NDF : 15.1/8

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: -0.042 ± 0.037 χ^2/NDF : 15.8/8

Left: -0.015 ± 0.028 χ^2/NDF : 32.0/17

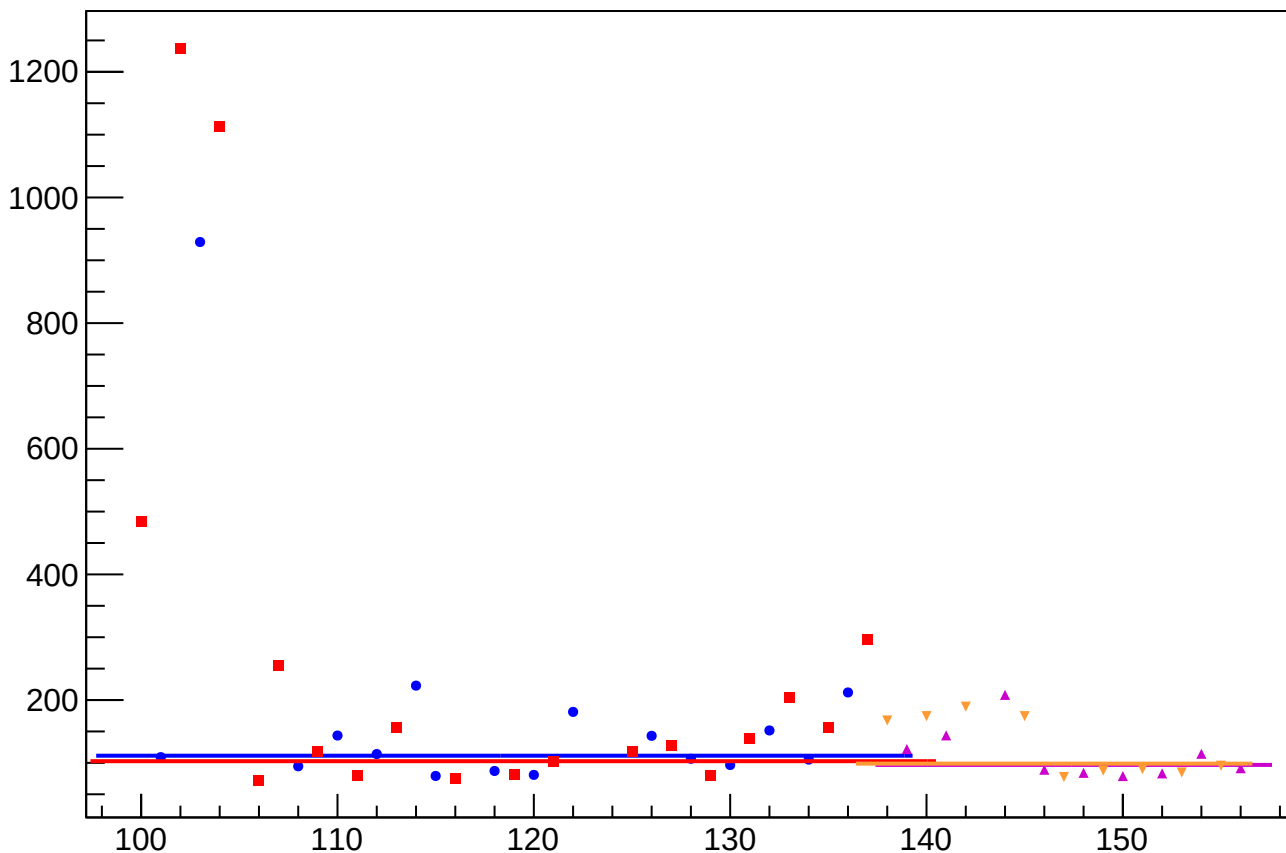
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.034 ± 0.029 χ^2/NDF : 31.6/24

Out: -0.016 ± 0.031 χ^2/NDF : 33.4/26

All: -0.025 ± 0.021 χ^2/NDF : 65.1/51

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: 98.792 $\pm$ 0.029 χ^2/NDF : 1182880.2/8

Right Out: 102.671 $\pm$ 0.033 χ^2/NDF : 2826848.2/17

Left In: 96.743 $\pm$ 0.026 χ^2/NDF : 949861.6/8

Left: 97.681 $\pm$ 0.019 χ^2/NDF : 2135487.9/17

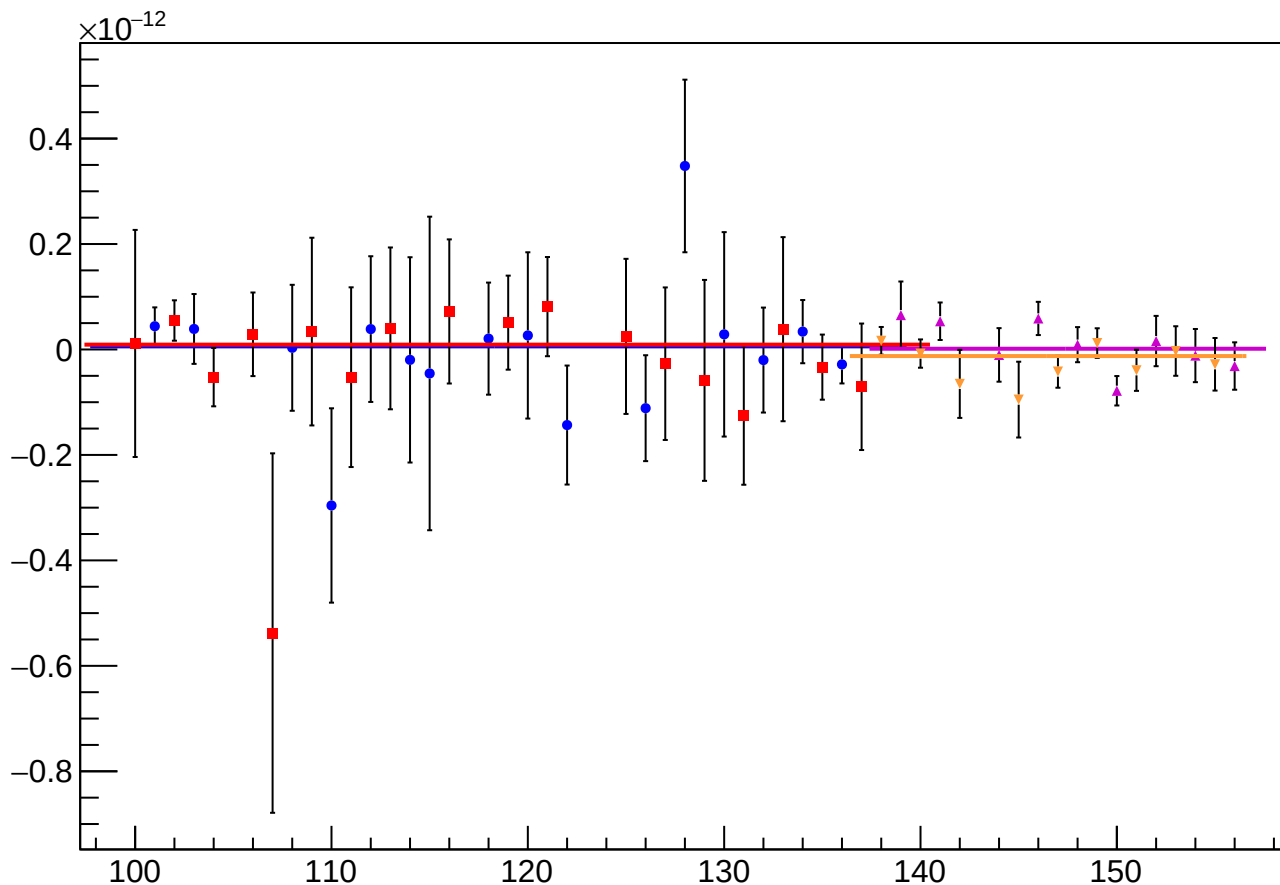
Right: 106.924 $\pm$ 0.024 χ^2/NDF : 4700749.9/33

In: 102.334 $\pm$ 0.021 χ^2/NDF : 2906504.8/24

Out: 100.479 $\pm$ 0.022 χ^2/NDF : 4017629.1/26

All: 101.443 $\pm$ 0.015 χ^2/NDF : 6927955.5/51

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 : 5.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 8.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 15.4/8

Left: -0.000+/-0.000 χ^2/NDF : 21.6/17

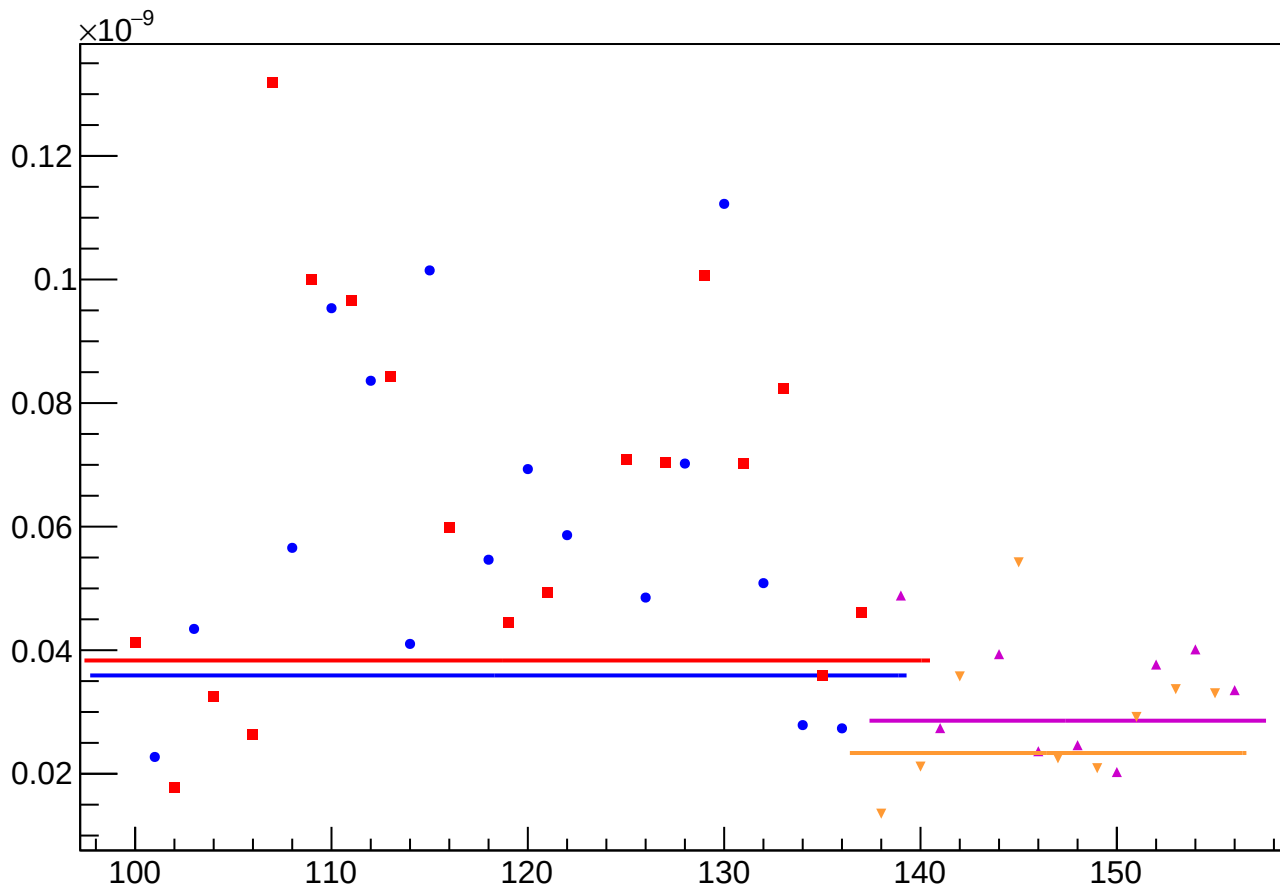
Right: 0.000+/-0.000 χ^2/NDF : 21.6/33

In: 0.000+/-0.000 χ^2/NDF : 28.4/24

Out: -0.000+/-0.000 χ^2/NDF : 15.0/26

All: -0.000+/-0.000 χ^2/NDF : 43.8/51

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 : 969416.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2202319.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 750681.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1897261.8/17

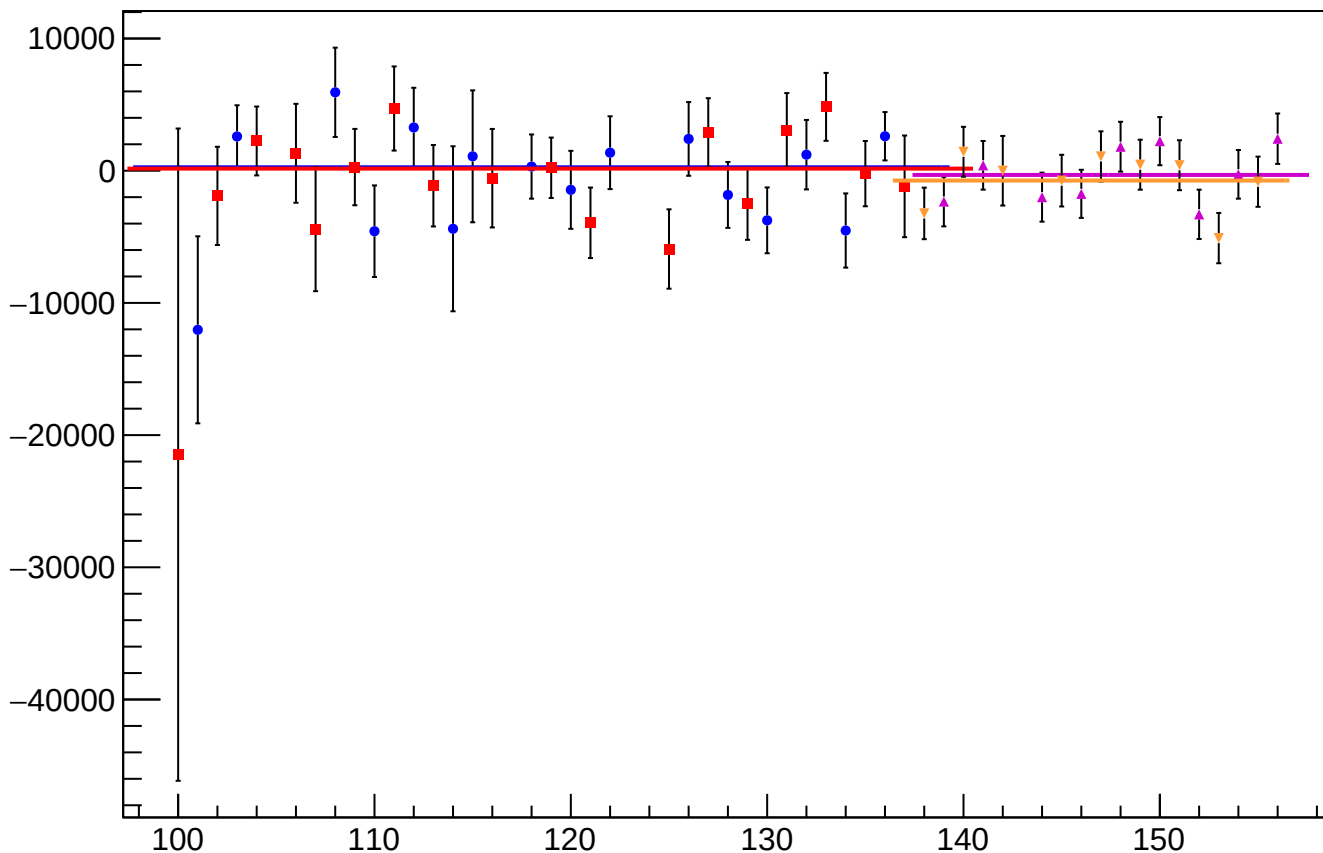
Right: 0.000+/-0.000 χ^2/NDF : 3975413.5/33

In: 0.000+/-0.000 χ^2/NDF : 2709870.2/24

Out: 0.000+/-0.000 χ^2/NDF : 3910145.1/26

All: 0.000+/-0.000 χ^2/NDF : 6767967.0/51

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: -743.228 $\pm$ 653.552 χ^2 /NDF:10.0/8

Right Out: 159.330 $\pm$ 712.314 χ^2 /NDF: 18.1/17

Left In: -317.883 $\pm$ 618.675 χ^2 /NDF:10.6/8

Left: -518.903 $\pm$ 449.293 χ^2 /NDF: 20.8/17

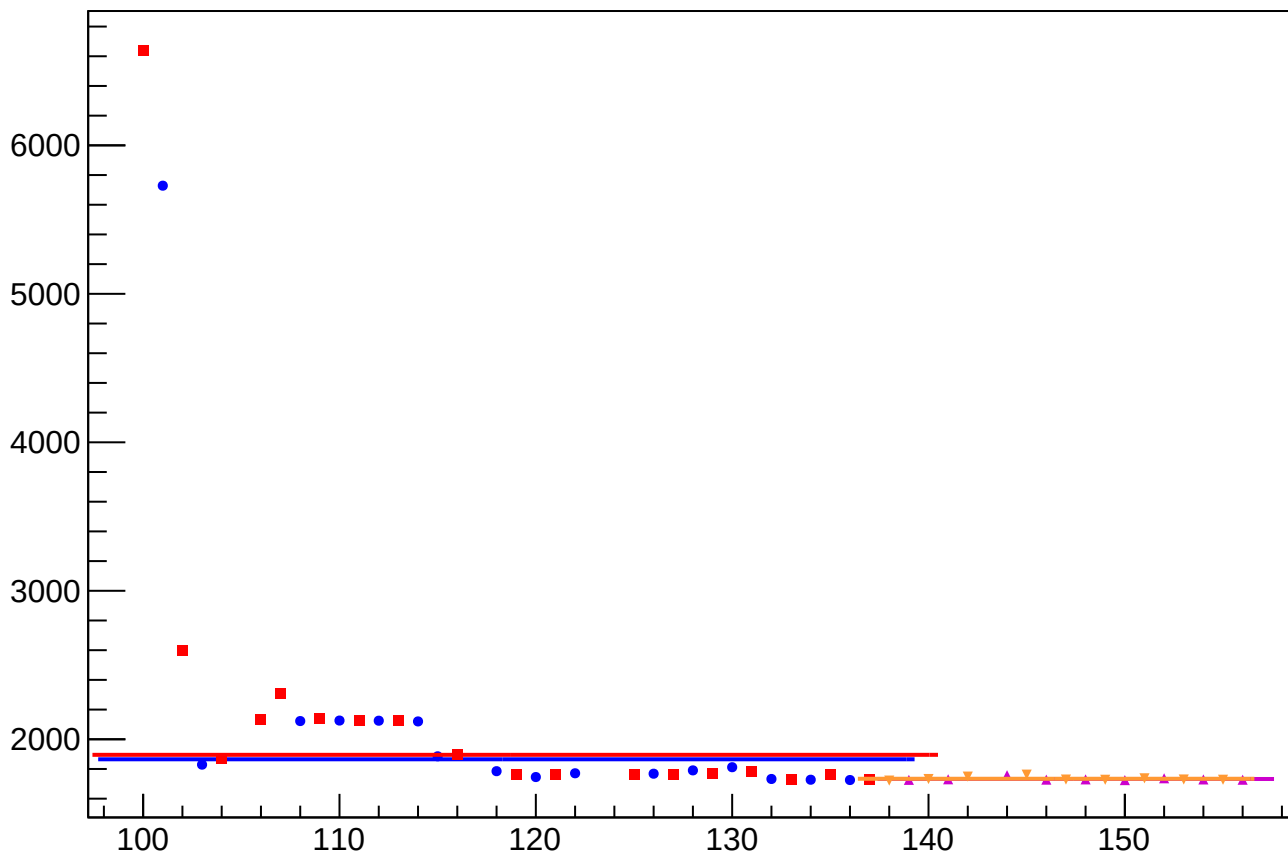
Right: 209.600 $\pm$ 502.755 χ^2 /NDF: 37.5/33

In: -68.570 $\pm$ 466.352 χ^2 /NDF:30.4/24

Out: -330.707 $\pm$ 481.568 χ^2 /NDF:28.9/26

All: -195.432 $\pm$ 335.011 χ^2 /NDF: 59.5/51

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: 1734.014+/-0.462 χ^2/NDF : 629.9/8

Right Out: 1895.250+/-0.504 χ^2/NDF : 250806.5/17

Left In: 1732.563+/-0.437 χ^2/NDF : 479.7/8

Left: 1733.248+/-0.318 χ^2/NDF : 1114.8/17

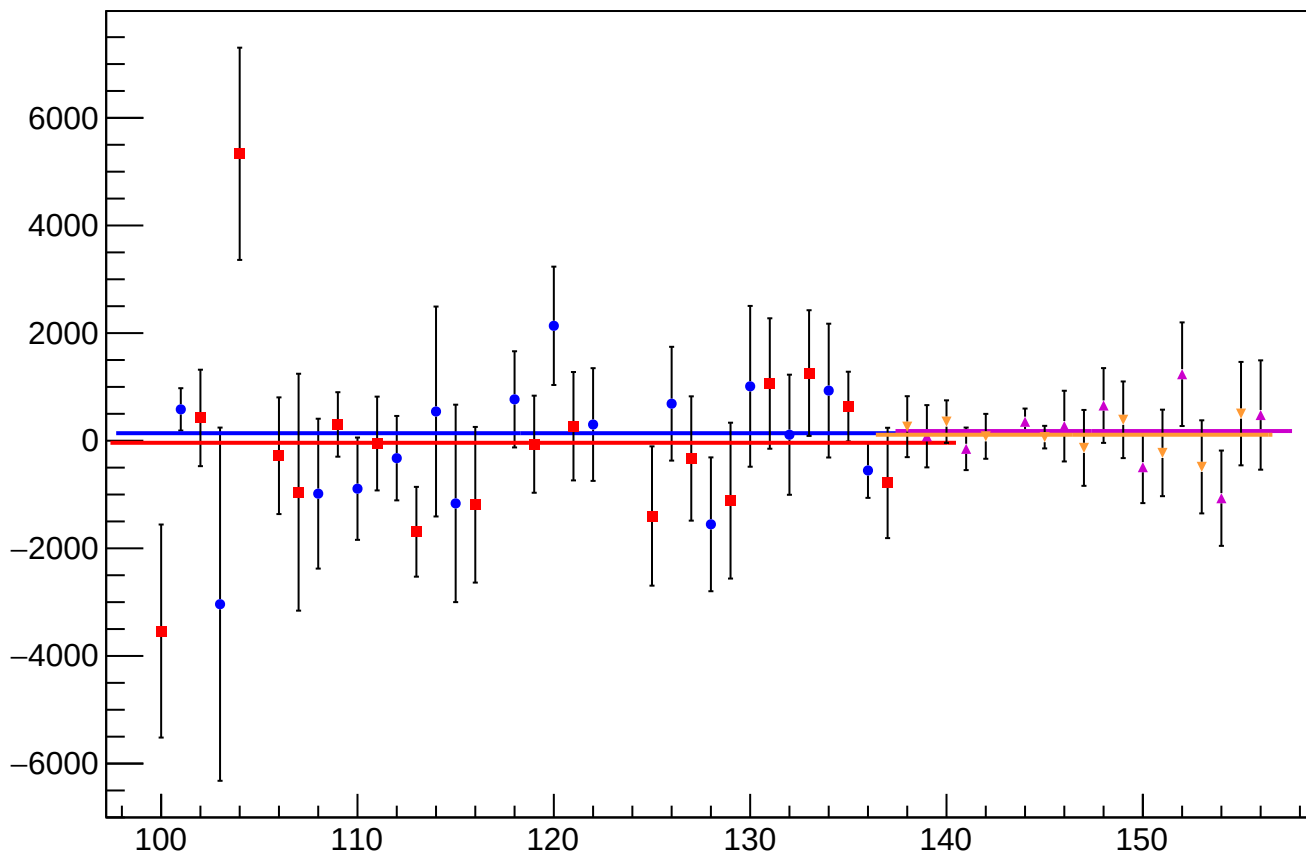
Right: 1880.155+/-0.356 χ^2/NDF : 925321.0/33

In: 1789.822+/-0.330 χ^2/NDF : 712879.9/24

Out: 1807.708+/-0.341 χ^2/NDF : 307073.7/26

All: 1798.478+/-0.237 χ^2/NDF : 1021377.3/51

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 139.799+/-220.100 χ^2/NDF : 13.5/15

Left Out: 111.175+/-147.615 χ^2/NDF : 1.6/8

Right Out: -38.629+/-238.253 χ^2/NDF : 21.4/17

Left In: 179.885+/-166.682 χ^2/NDF : 6.0/8

Left: 141.377+/-110.509 χ^2/NDF : 7.7/17

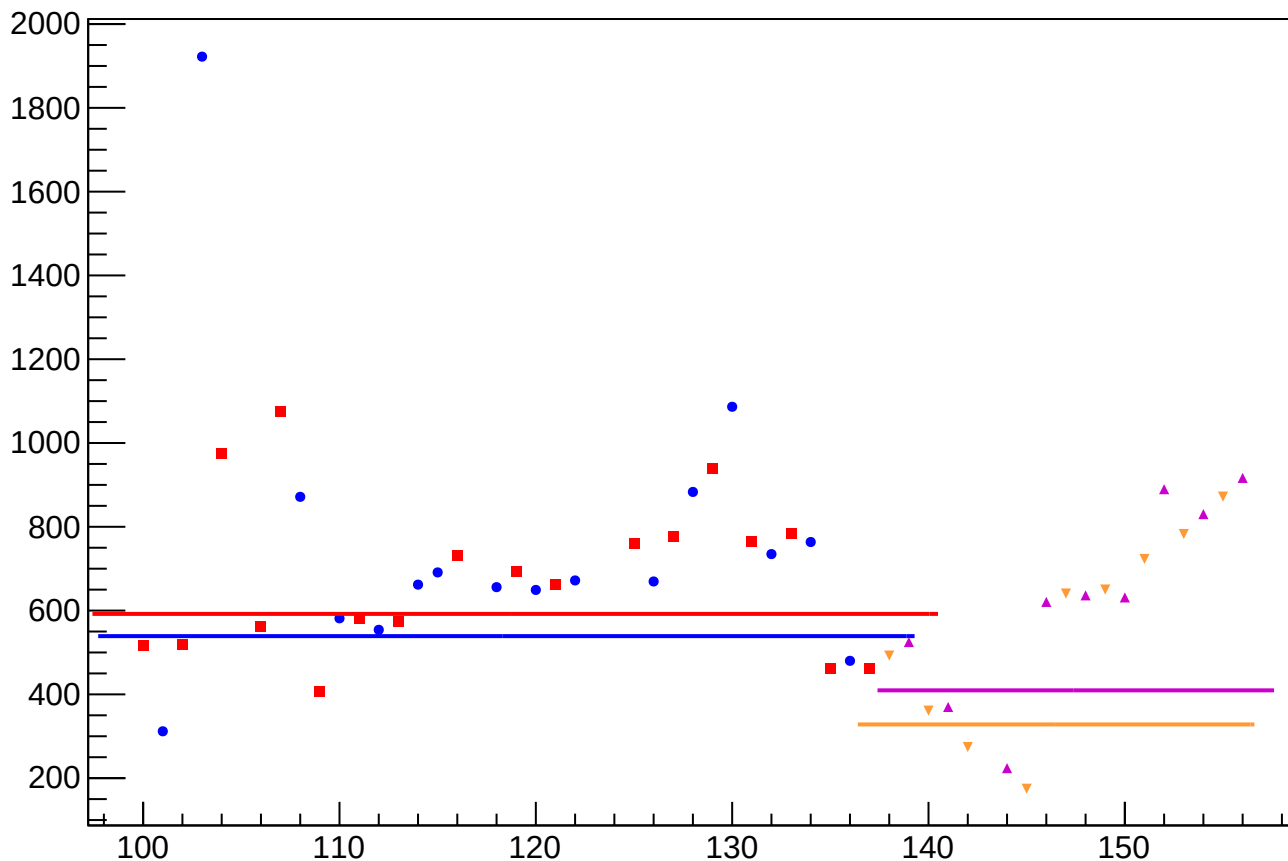
Right: 57.640+/-161.672 χ^2/NDF : 35.2/33

In: 165.275+/-132.879 χ^2/NDF : 19.5/24

Out: 69.621+/-125.483 χ^2/NDF : 23.3/26

All: 114.712+/-91.232 χ^2/NDF : 43.0/51

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: 328.237 $\pm$ 0.104 χ^2/NDF : 3761954.2/8

Right Out: 592.101 $\pm$ 0.168 χ^2/NDF : 843066.1/17

Left In: 409.603 $\pm$ 0.118 χ^2/NDF : 3335034.8/8

Left: 364.002 $\pm$ 0.078 χ^2/NDF : 7364088.3/17

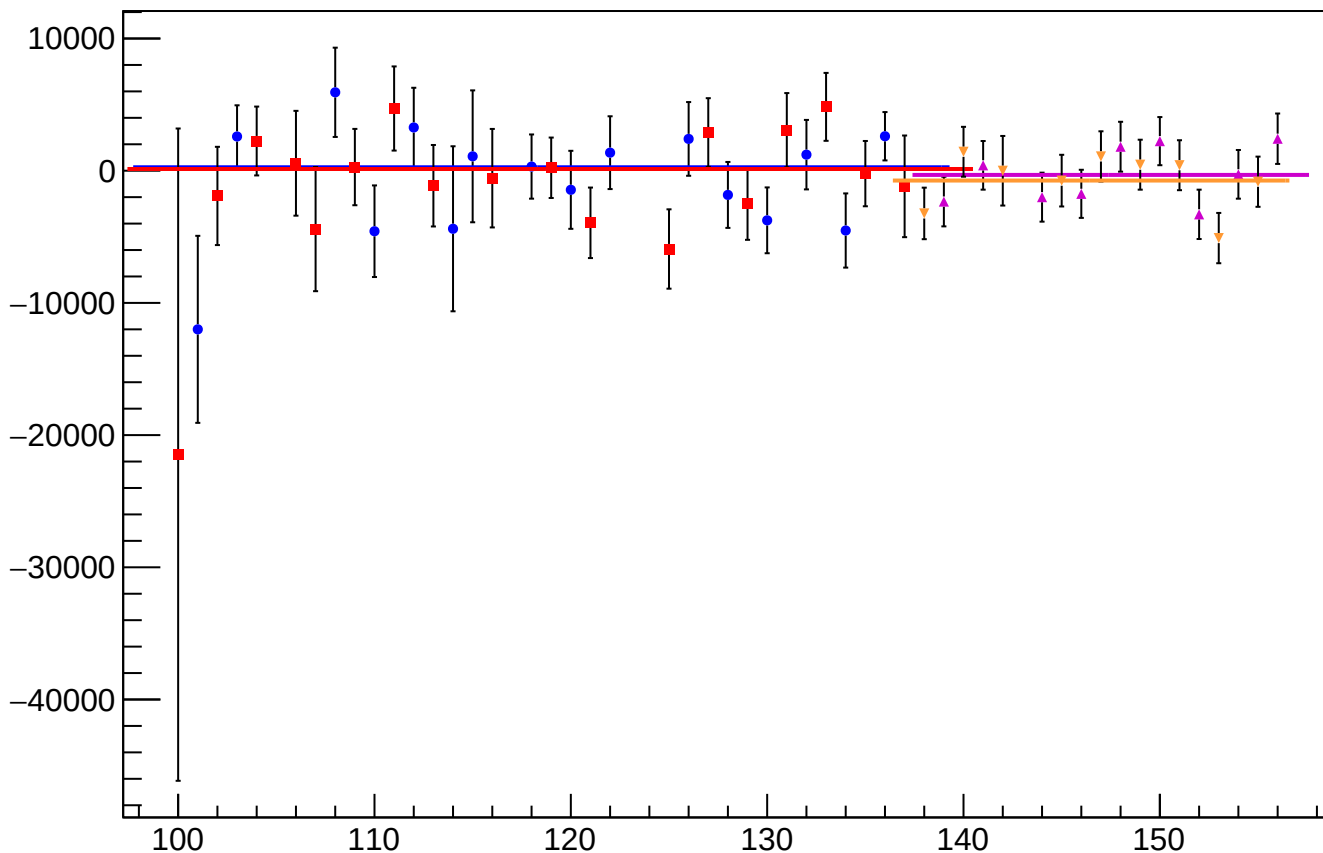
Right: 563.459 $\pm$ 0.114 χ^2/NDF : 2751212.3/33

In: 456.771 $\pm$ 0.094 χ^2/NDF : 5629029.4/24

Out: 401.430 $\pm$ 0.089 χ^2/NDF : 6377649.8/26

All: 427.517 $\pm$ 0.065 χ^2/NDF : 12190056.3/51

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: -743.157+/-653.552 χ^2/NDF :10.0/8

Right Out: 130.049+/-713.724 χ^2/NDF : 18.0/17

Left In: -318.003+/-618.675 χ^2/NDF :10.6/8

Left: -518.933+/-449.293 χ^2/NDF : 20.8/17

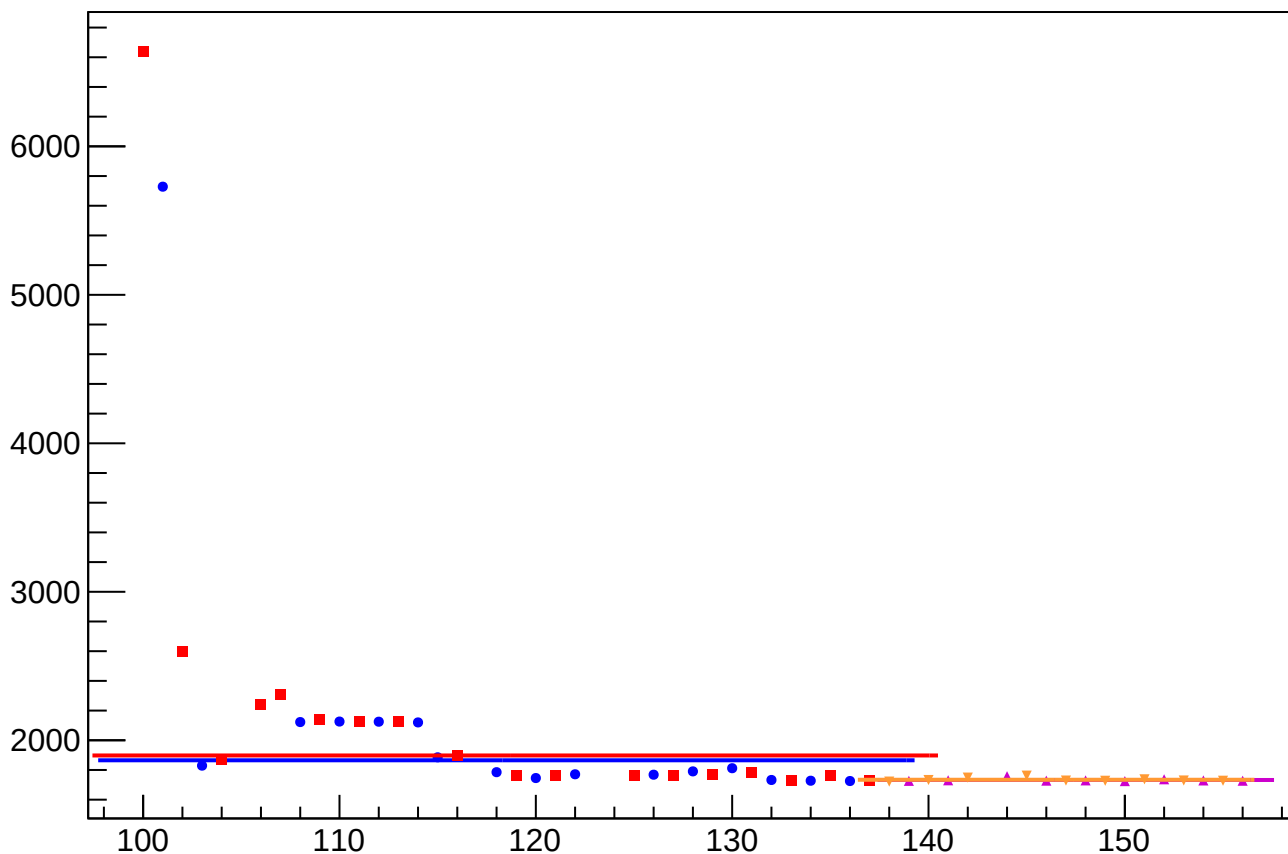
Right: 195.236+/-503.250 χ^2/NDF : 37.4/33

In: -68.557+/-466.352 χ^2/NDF :30.4/24

Out: -344.908+/-482.002 χ^2/NDF :28.8/26

All: -202.173+/-335.157 χ^2/NDF : 59.4/51

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: 1734.014+/-0.462 χ^2/NDF : 629.9/8

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1732.563+/-0.437 χ^2/NDF : 479.7/8

Left: 1733.248+/-0.318 χ^2/NDF : 1114.8/17

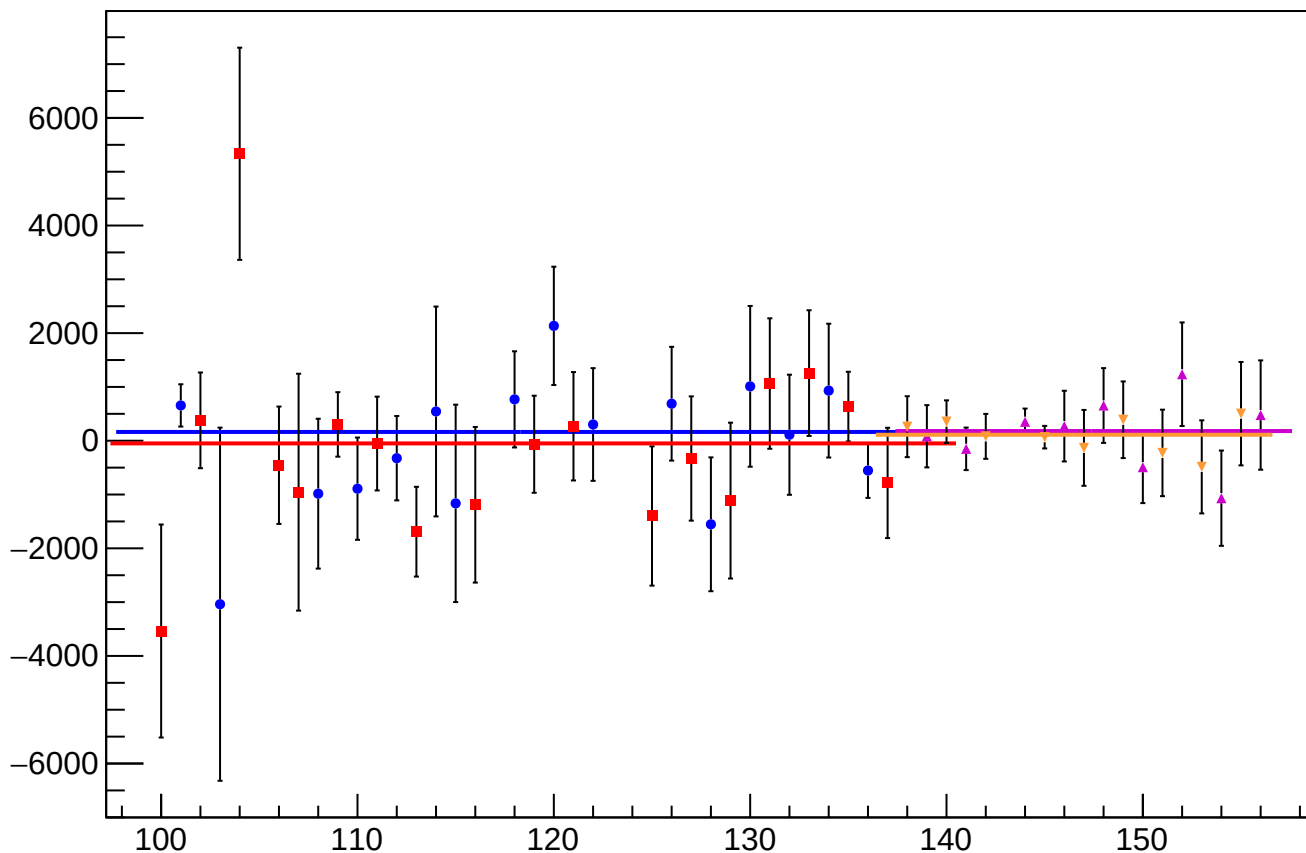
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1789.822+/-0.330 χ^2/NDF : 712879.8/24

Out: 1808.667+/-0.341 χ^2/NDF : 315583.2/26

All: 1798.934+/-0.237 χ^2/NDF : 1030042.0/51

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149+/-220.024 χ^2/NDF : 13.9/15

Left Out: 111.045+/-147.618 χ^2/NDF : 1.6/8

Right Out: -49.618+/-238.198 χ^2/NDF : 21.4/17

Left In: 179.877+/-166.683 χ^2/NDF : 6.0/8

Left: 141.301+/-110.510 χ^2/NDF : 7.7/17

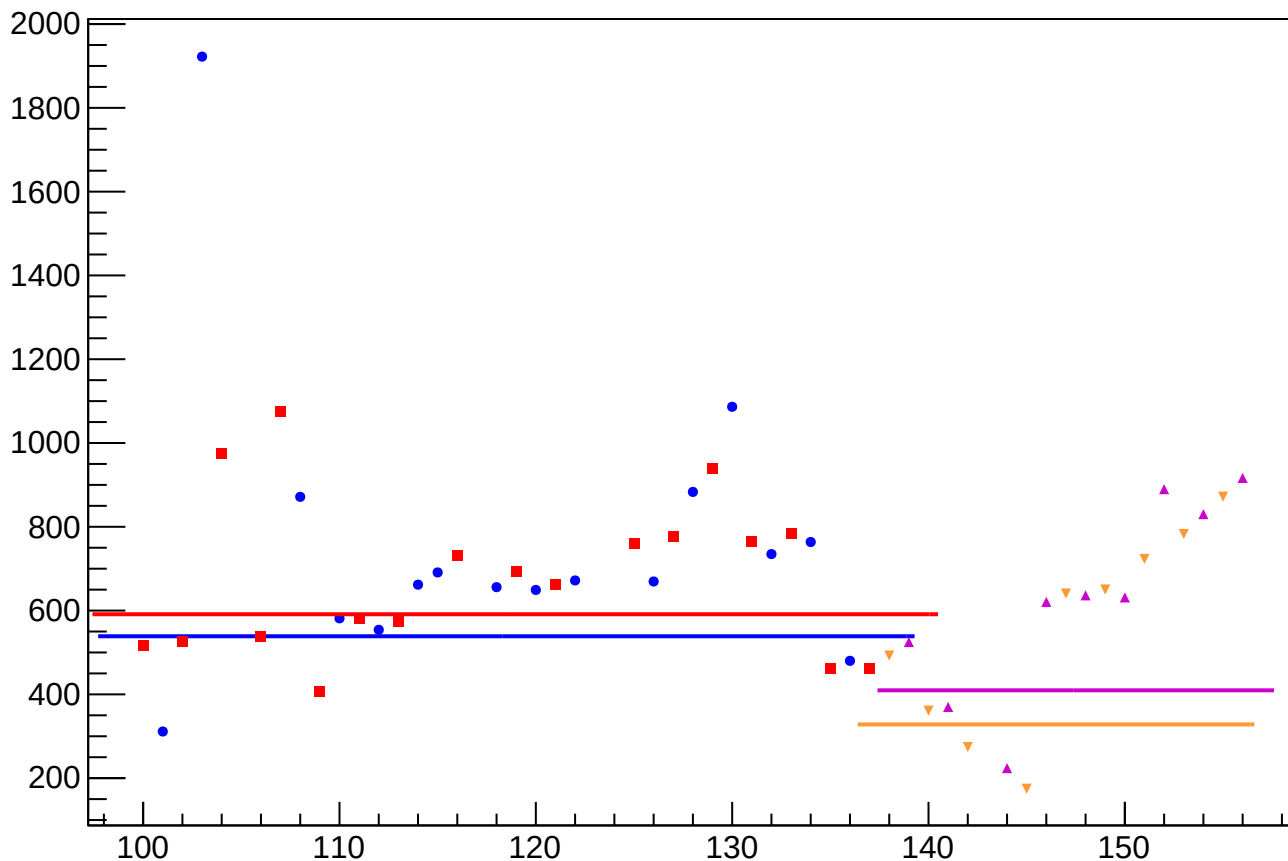
Right: 65.191+/-161.624 χ^2/NDF : 35.8/33

In: 173.778+/-132.862 χ^2/NDF : 19.9/24

Out: 66.462+/-125.476 χ^2/NDF : 23.4/26

All: 117.054+/-91.225 χ^2/NDF : 43.6/51

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: 328.244 $\pm$ 0.104 χ^2 /NDF: 3761905.7/8

Right Out: 591.241 $\pm$ 0.168 χ^2 /NDF: 844536.8/17

Left In: 409.612 $\pm$ 0.118 χ^2 /NDF: 3334739.3/8

Left: 364.011 $\pm$ 0.078 χ^2 /NDF: 7363745.0/17

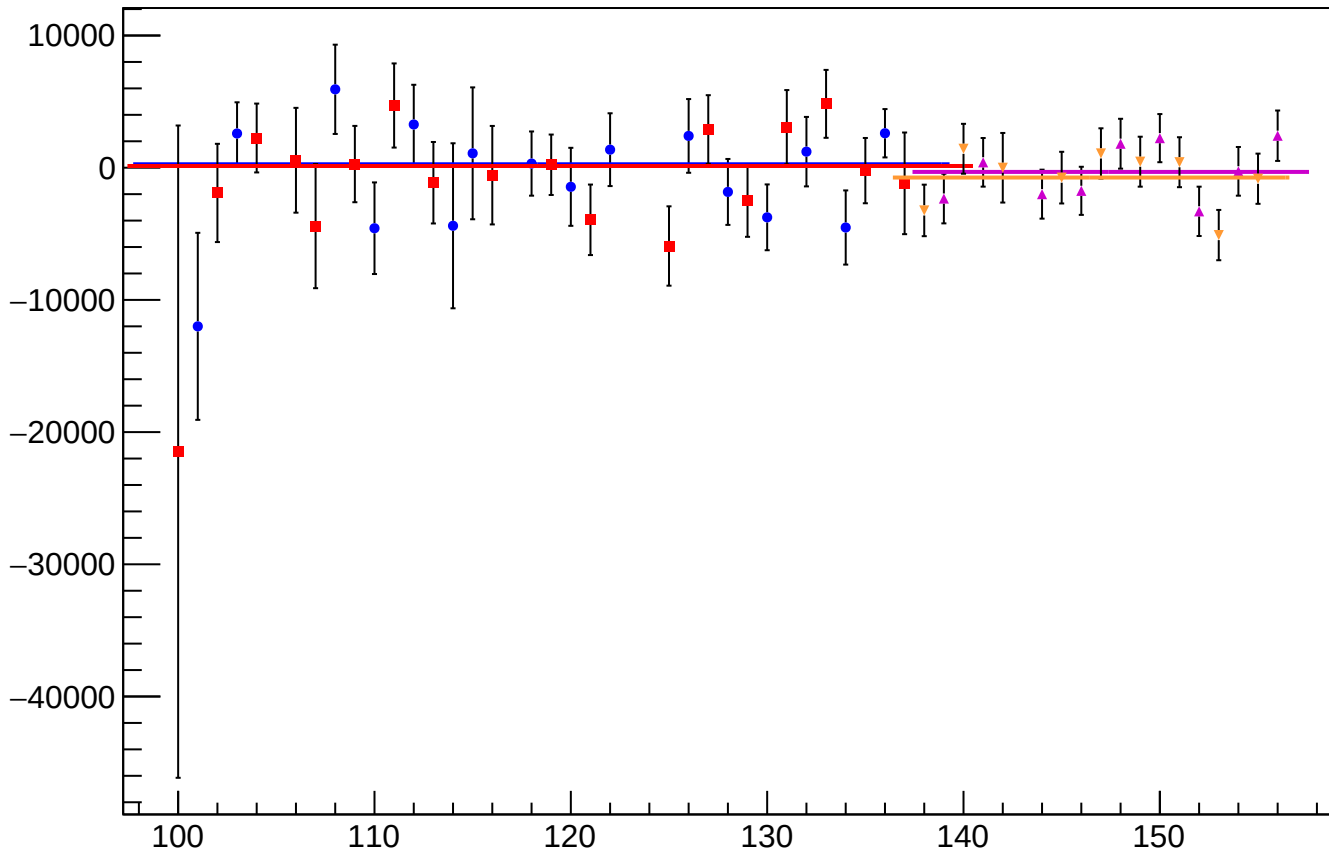
Right: 562.892 $\pm$ 0.114 χ^2 /NDF: 2755931.5/33

In: 456.683 $\pm$ 0.094 χ^2 /NDF: 5631059.3/24

Out: 401.224 $\pm$ 0.089 χ^2 /NDF: 6368009.9/26

All: 427.369 $\pm$ 0.065 χ^2 /NDF: 12183265.2/53

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: -743.157+/-653.552 χ^2/NDF :10.0/8

Right Out: 130.049+/-713.724 χ^2/NDF : 18.0/17

Left In: -318.003+/-618.675 χ^2/NDF :10.6/8

Left: -518.933+/-449.293 χ^2/NDF : 20.8/17

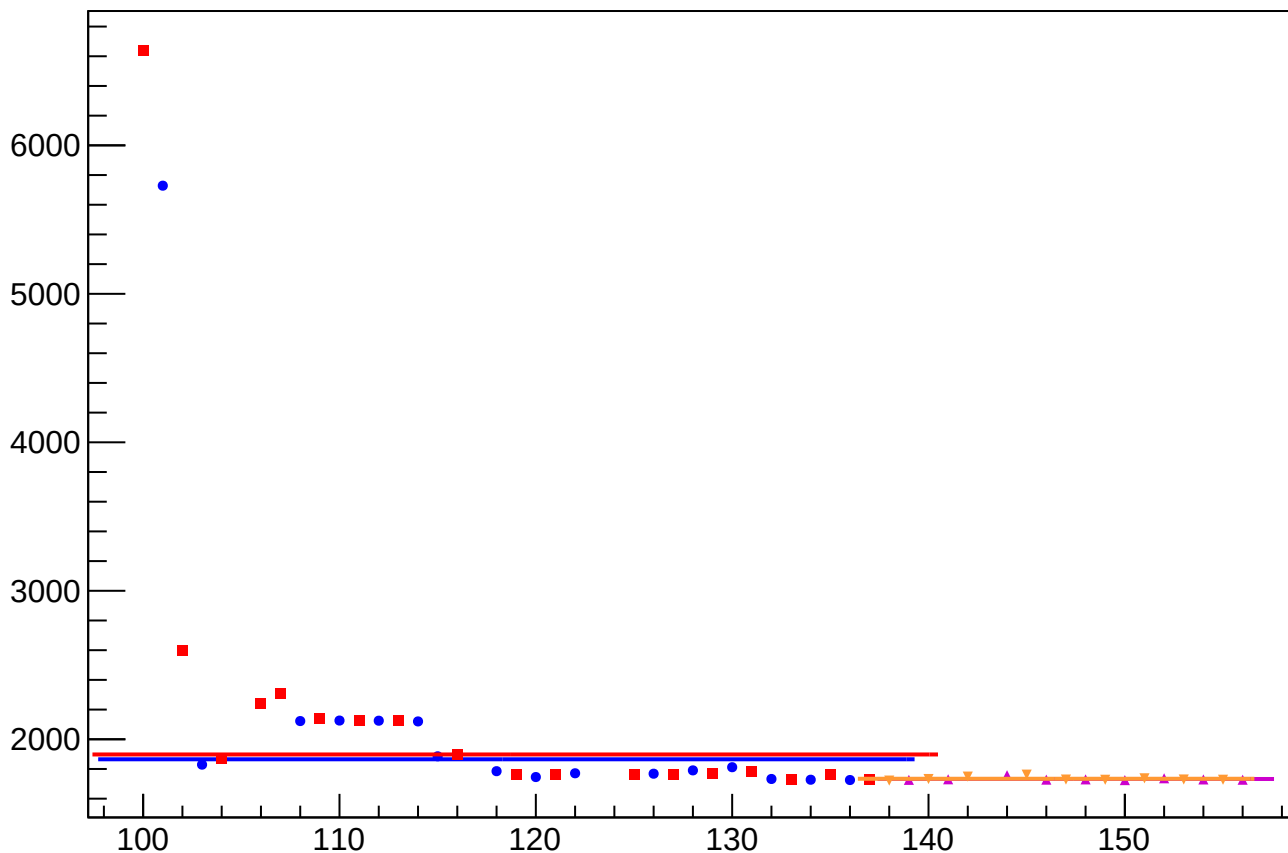
Right: 195.236+/-503.250 χ^2/NDF : 37.4/33

In: -68.557+/-466.352 χ^2/NDF :30.4/24

Out: -344.908+/-482.002 χ^2/NDF :28.8/26

All: -202.173+/-335.157 χ^2/NDF : 59.4/51

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: 1734.014+/-0.462 χ^2/NDF : 629.9/8

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1732.563+/-0.437 χ^2/NDF : 479.7/8

Left: 1733.248+/-0.318 χ^2/NDF : 1114.8/17

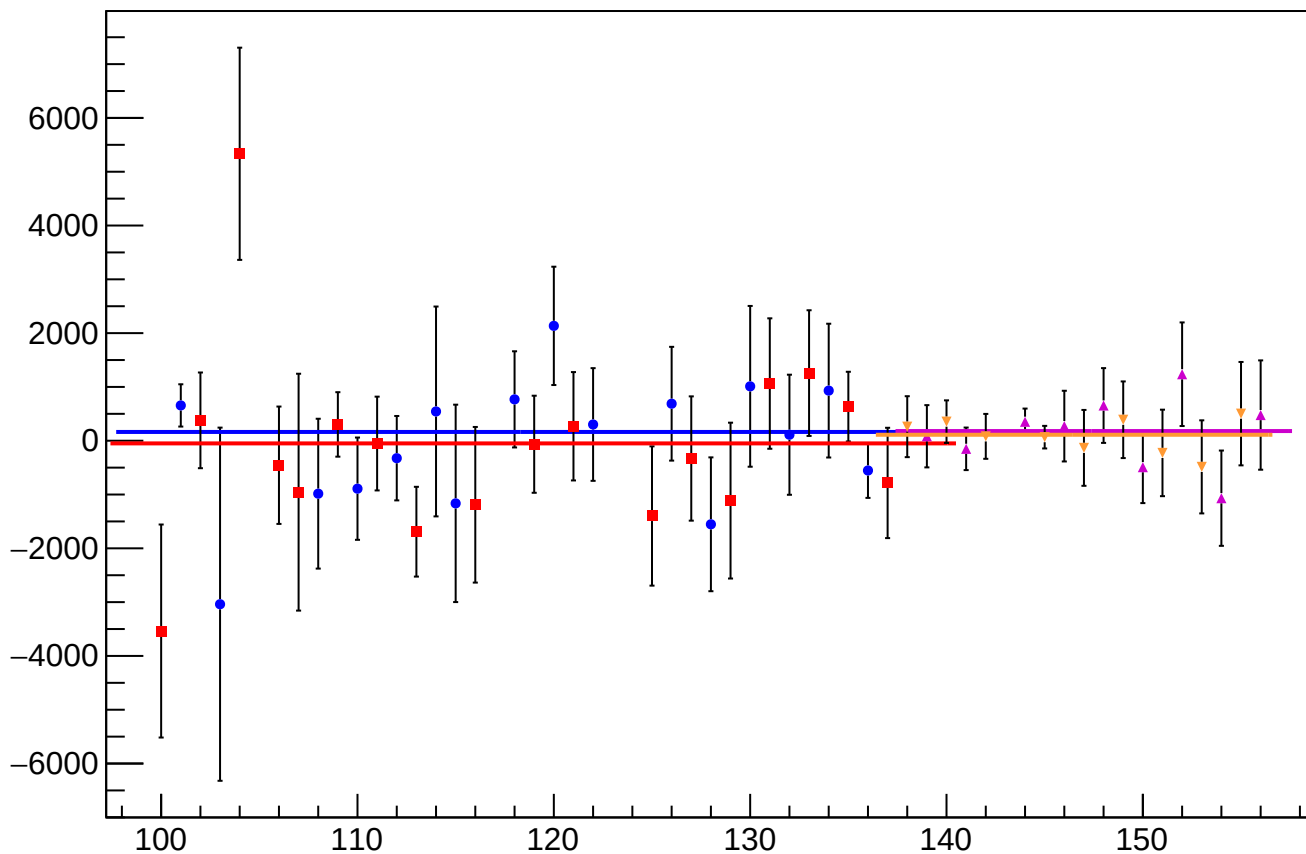
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1789.822+/-0.330 χ^2/NDF : 712879.8/24

Out: 1808.667+/-0.341 χ^2/NDF : 315583.2/26

All: 1798.934+/-0.237 χ^2/NDF : 1030042.0/51

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149+/-220.024 χ^2/NDF : 13.9/15

Left Out: 111.045+/-147.618 χ^2/NDF : 1.6/8

Right Out: -49.618+/-238.198 χ^2/NDF : 21.4/17

Left In: 179.877+/-166.683 χ^2/NDF : 6.0/8

Left: 141.301+/-110.510 χ^2/NDF : 7.7/17

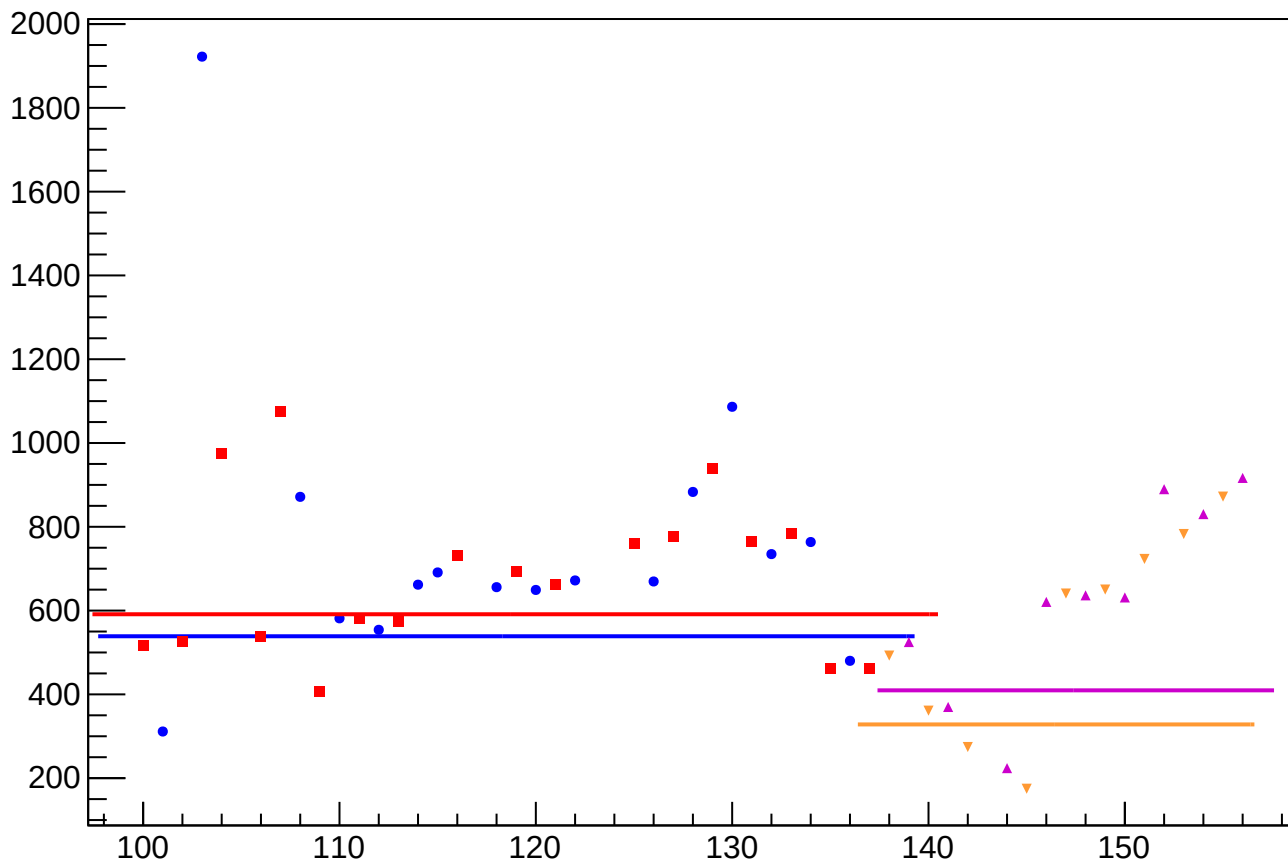
Right: 65.191+/-161.624 χ^2/NDF : 35.8/33

In: 173.778+/-132.862 χ^2/NDF : 19.9/24

Out: 66.462+/-125.476 χ^2/NDF : 23.4/26

All: 117.054+/-91.225 χ^2/NDF : 43.6/51

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.703+/-0.156 χ^2/NDF : 1858892.9/15

Left Out: 328.244+/-0.104 χ^2/NDF : 3761905.7/8

Right Out: 591.241+/-0.168 χ^2/NDF : 844536.8/17

Left In: 409.612+/-0.118 χ^2/NDF : 3334739.3/8

Left: 364.011+/-0.078 χ^2/NDF : 7363745.0/17

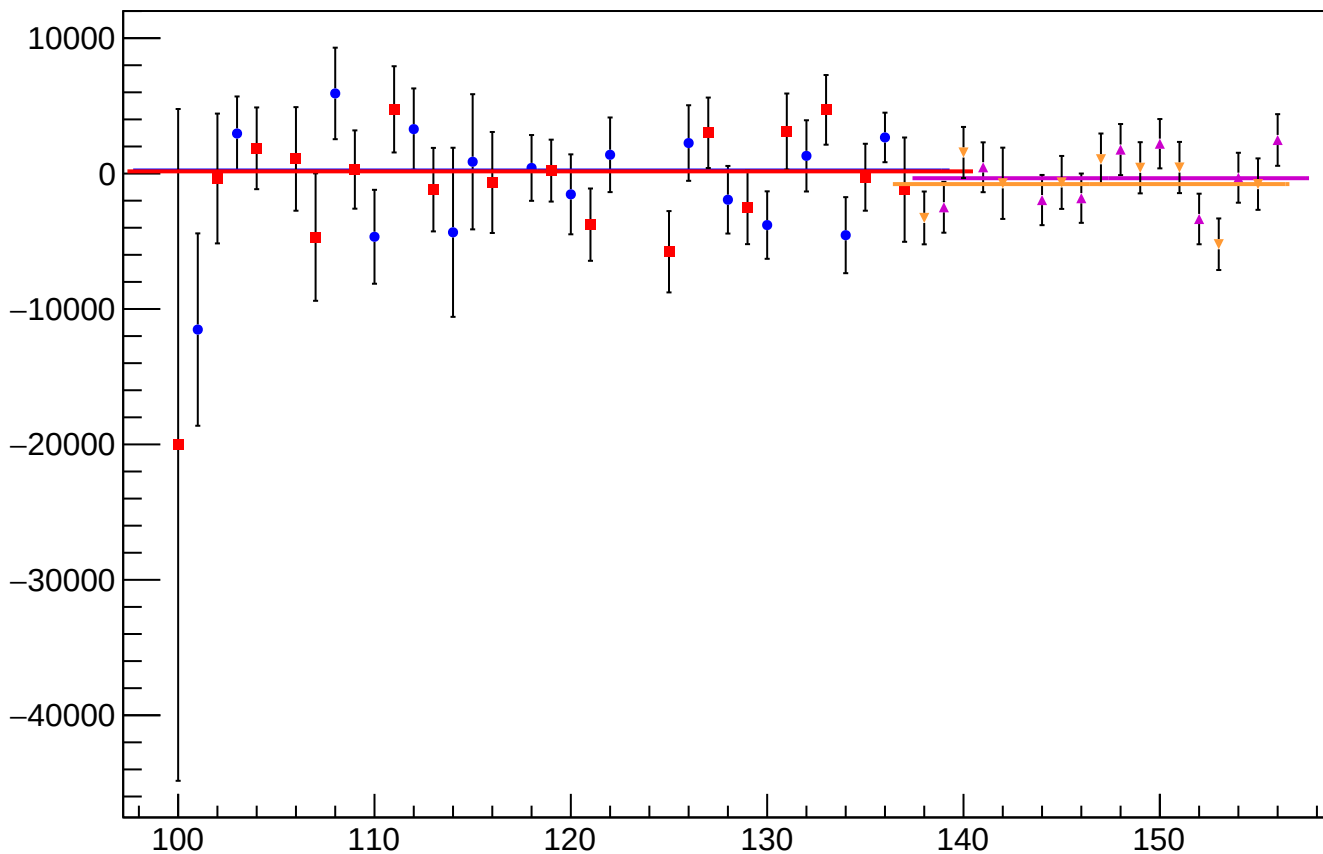
Right: 562.892+/-0.114 χ^2/NDF : 2755931.5/33

In: 456.683+/-0.094 χ^2/NDF : 5631059.3/24

Out: 401.224+/-0.089 χ^2/NDF : 6368009.9/26

All: 427.369+/-0.065 χ^2/NDF : 12183265.2/53

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: -776.813 $\pm$ 653.916 χ^2 /NDF:10.4/8

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -342.504 $\pm$ 619.057 χ^2 /NDF:10.9/8

Left: -547.775 $\pm$ 449.558 χ^2 /NDF: 21.5/17

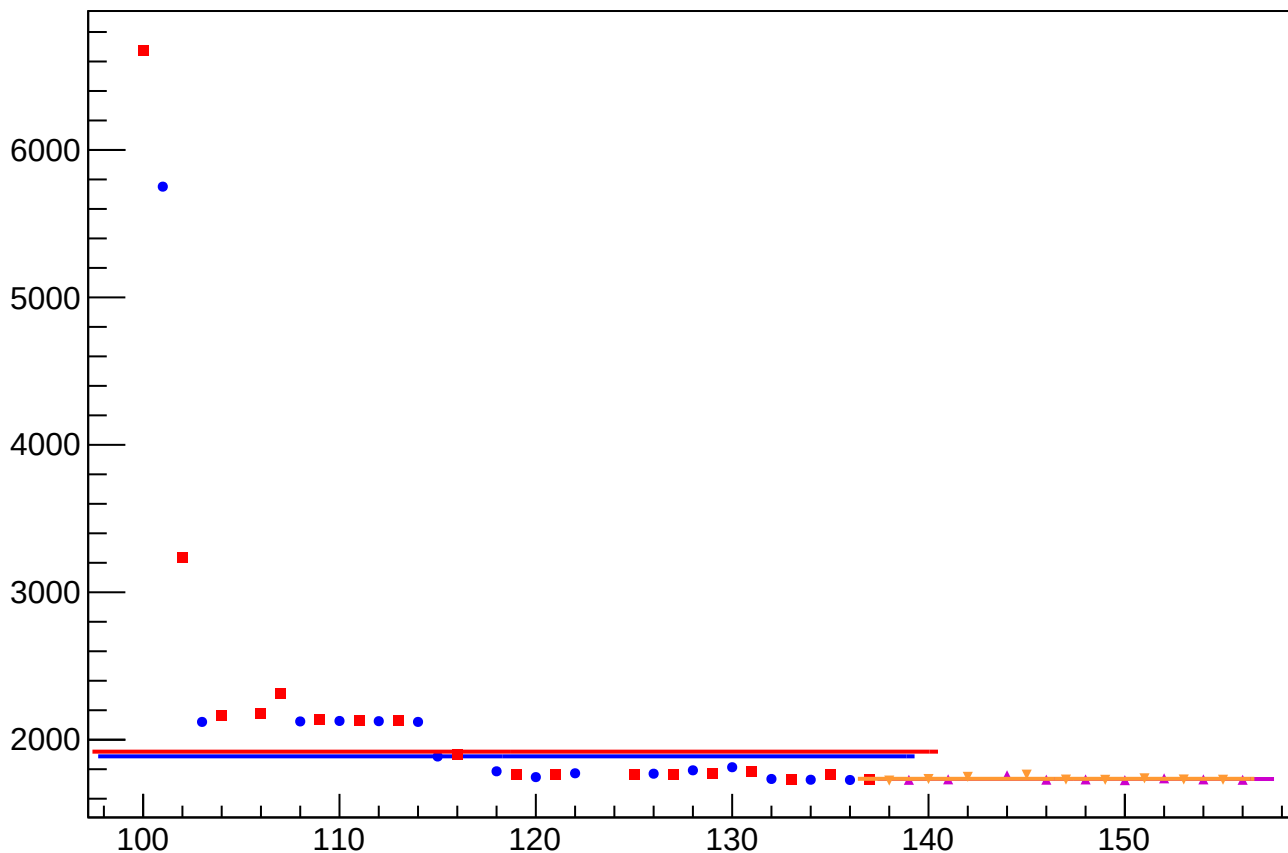
Right: 195.282 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -100.211 $\pm$ 469.005 χ^2 /NDF:30.7/24

Out: -355.420 $\pm$ 485.819 χ^2 /NDF:28.3/26

All: -223.323 $\pm$ 337.424 χ^2 /NDF: 59.2/51

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: 1734.975+/-0.462 χ^2/NDF : 624.6/8

Right Out: 1919.164+/-0.513 χ^2/NDF : 352567.1/17

Left In: 1733.631+/-0.438 χ^2/NDF : 470.7/8

Left: 1734.266+/-0.318 χ^2/NDF : 1099.7/17

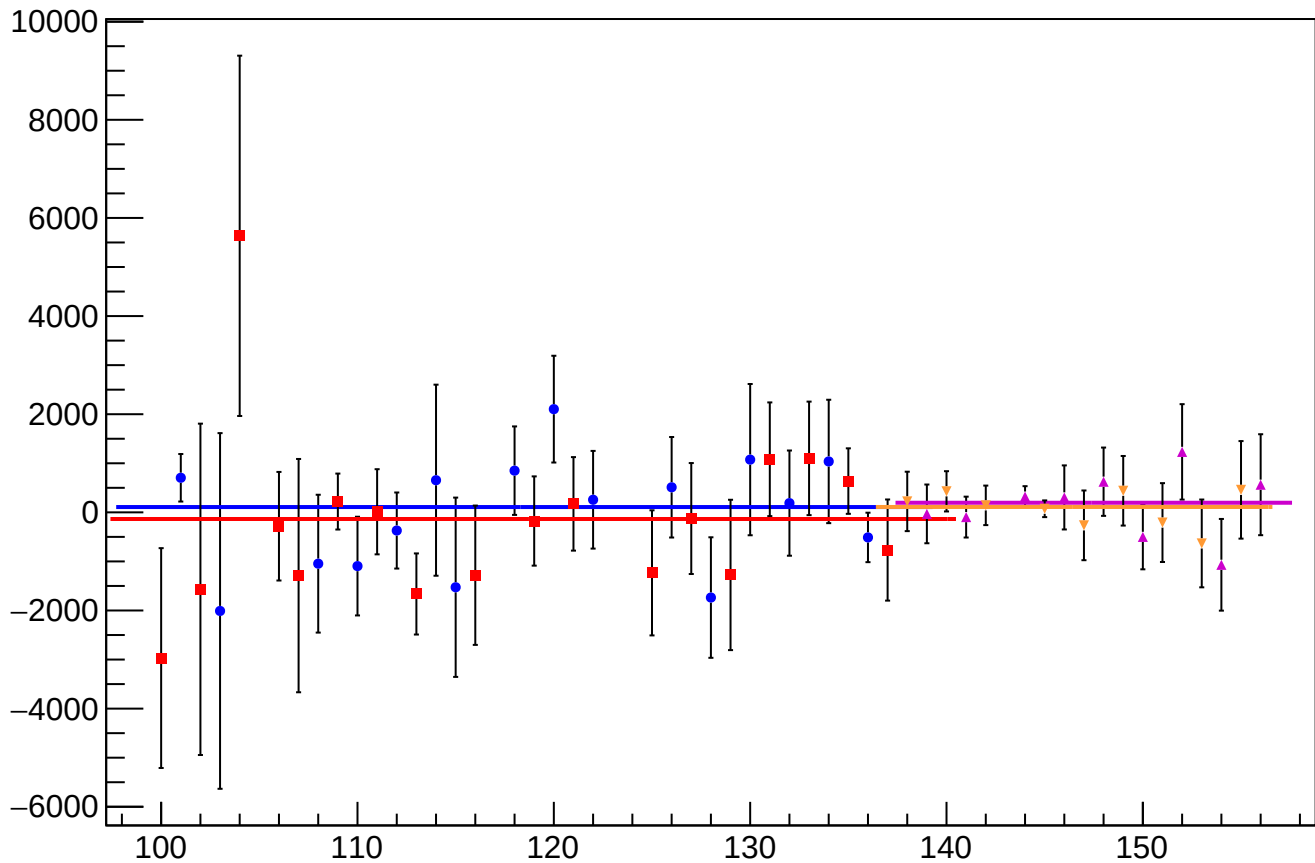
Right: 1903.077+/-0.361 χ^2/NDF : 1043955.3/33

In: 1799.102+/-0.332 χ^2/NDF : 742422.3/24

Out: 1817.499+/-0.344 χ^2/NDF : 424285.8/26

All: 1807.977+/-0.239 χ^2/NDF : 1168192.7/51

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 108.131+/-231.711 χ^2/NDF : 14.2/15

Left Out: 109.596+/-132.347 χ^2/NDF : 2.2/8

Right Out: -135.358+/-245.933 χ^2/NDF : 14.4/17

Left In: 195.775+/-156.949 χ^2/NDF : 5.6/8

Left: 145.410+/-101.176 χ^2/NDF : 7.9/17

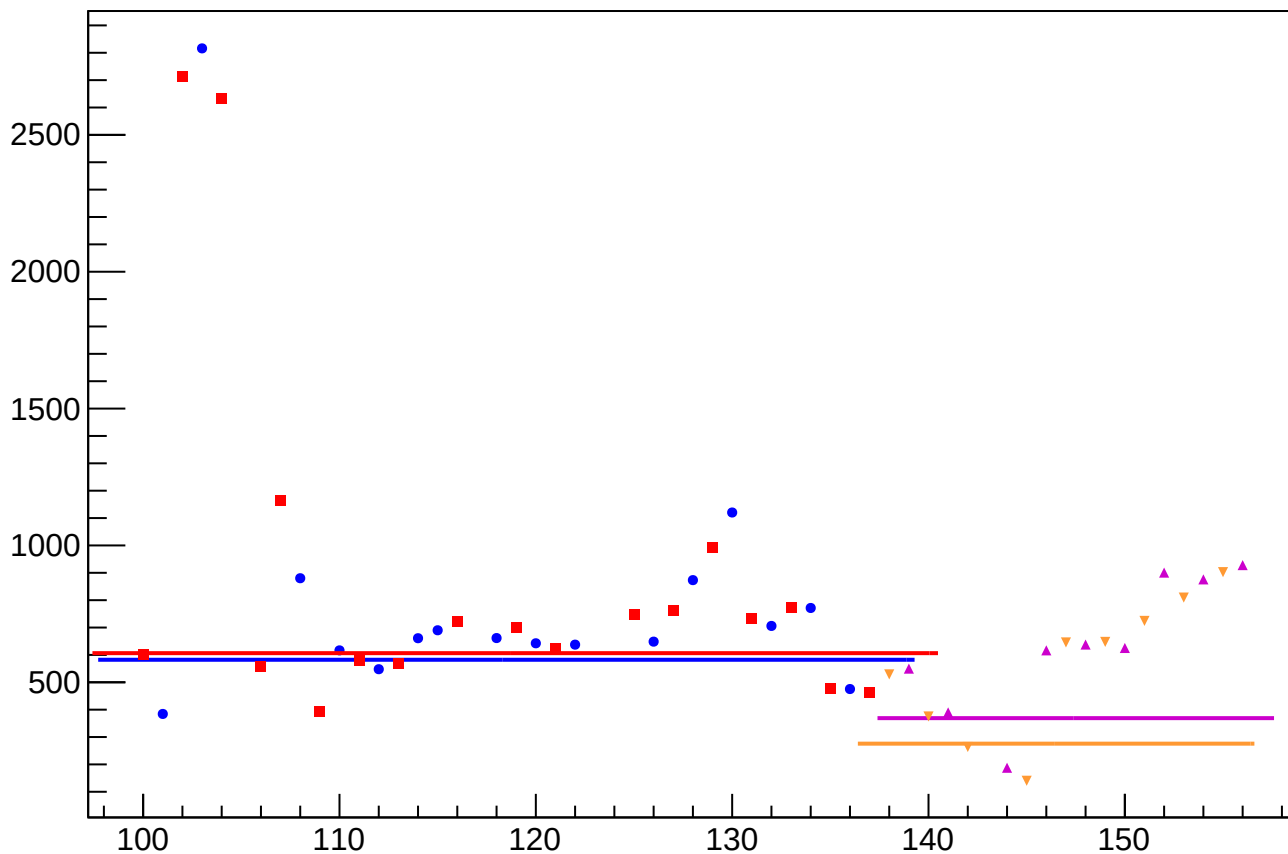
Right: -6.369+/-168.648 χ^2/NDF : 29.0/33

In: 168.210+/-129.945 χ^2/NDF : 19.8/24

Out: 54.589+/-116.543 χ^2/NDF : 17.3/26

All: 105.240+/-86.761 χ^2/NDF : 37.6/51

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: 275.788+/-0.094 χ^2/NDF : 4957457.9/8

Right Out: 606.451+/-0.174 χ^2/NDF : 2198399.5/17

Left In: 369.007+/-0.111 χ^2/NDF : 4309630.6/8

Left: 314.527+/-0.072 χ^2/NDF : 9679429.9/17

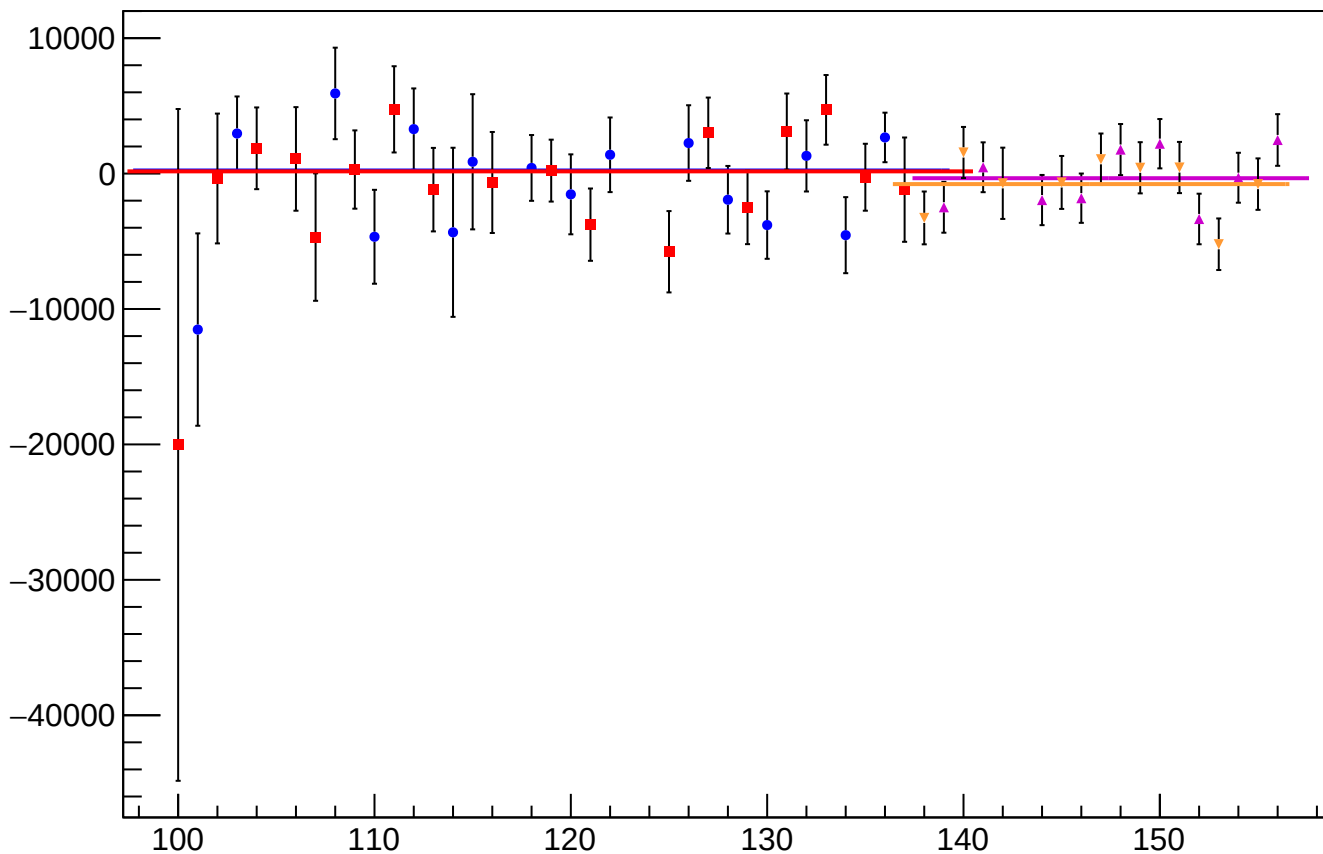
Right: 593.641+/-0.119 χ^2/NDF : 3962943.2/33

In: 436.079+/-0.092 χ^2/NDF : 7225315.1/24

Out: 350.042+/-0.082 χ^2/NDF : 9959441.6/26

All: 388.396+/-0.061 χ^2/NDF : 17670663.3/51

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: -776.817 $\pm$ 653.916 χ^2 /NDF:10.4/8

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -342.503 $\pm$ 619.057 χ^2 /NDF:10.9/8

Left: -547.776 $\pm$ 449.558 χ^2 /NDF: 21.5/17

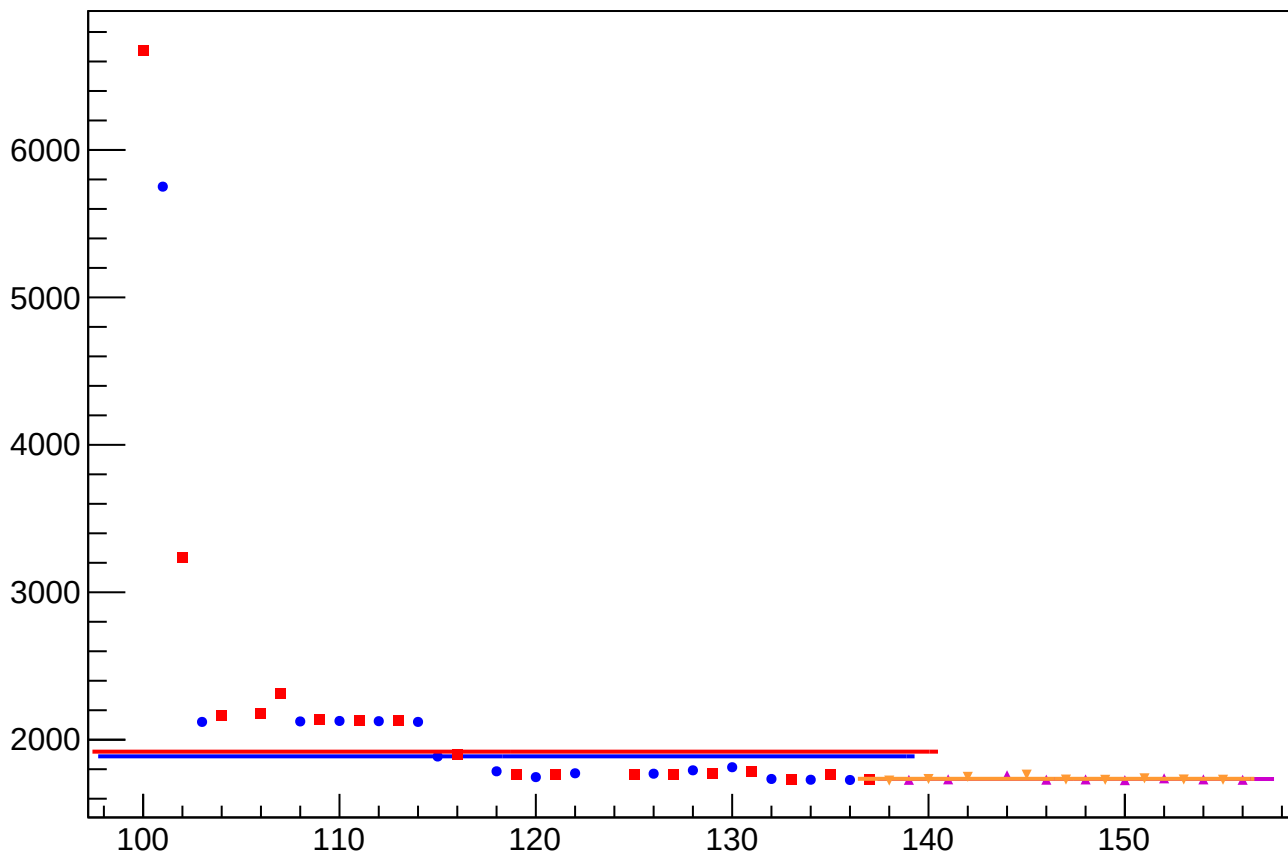
Right: 195.283 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -100.210 $\pm$ 469.005 χ^2 /NDF:30.7/24

Out: -355.422 $\pm$ 485.819 χ^2 /NDF:28.3/26

All: -223.323 $\pm$ 337.424 χ^2 /NDF: 59.2/51

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: 1734.975+/-0.462 χ^2/NDF : 624.6/8

Right Out: 1919.164+/-0.513 χ^2/NDF : 352566.4/17

Left In: 1733.631+/-0.438 χ^2/NDF : 470.7/8

Left: 1734.266+/-0.318 χ^2/NDF : 1099.7/17

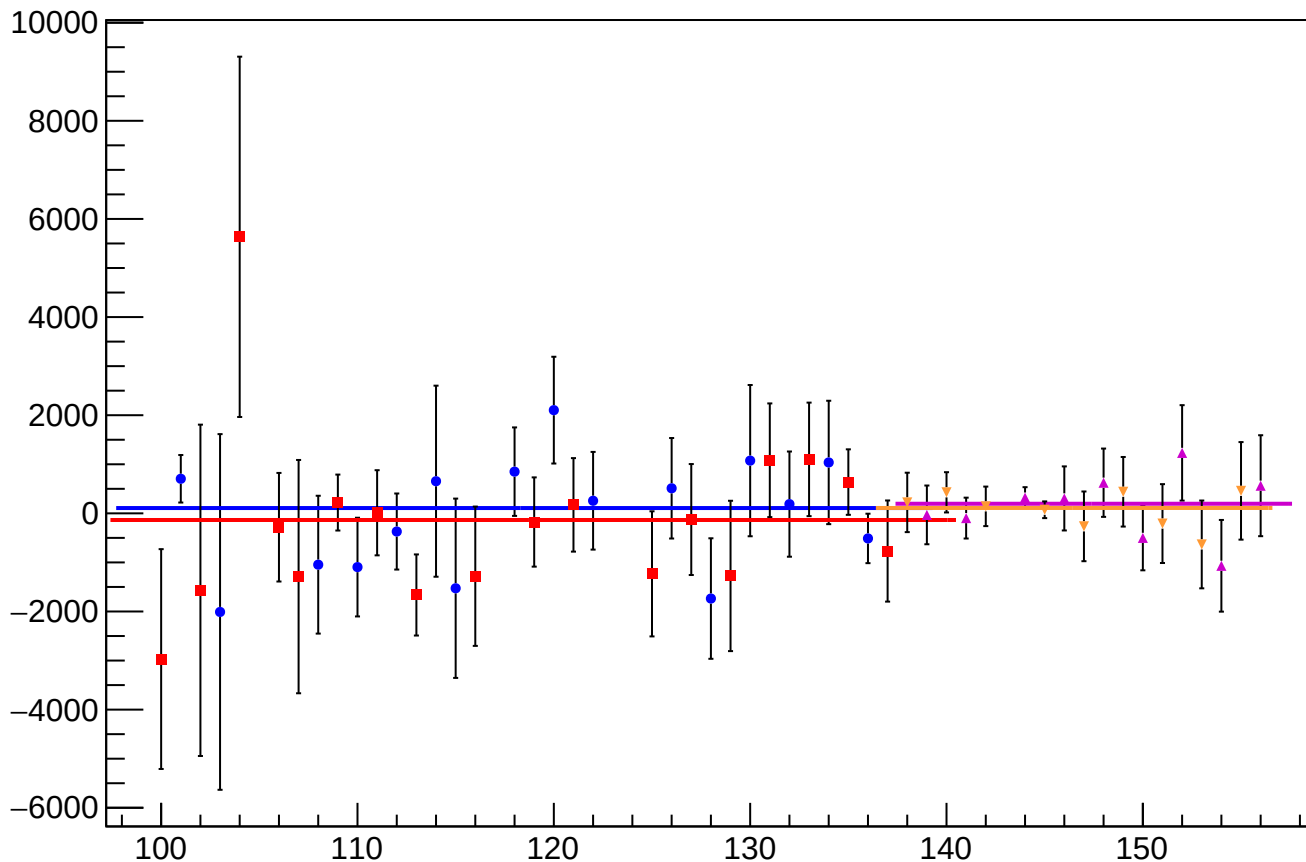
Right: 1903.077+/-0.361 χ^2/NDF : 1043954.3/33

In: 1799.102+/-0.332 χ^2/NDF : 742421.9/24

Out: 1817.499+/-0.344 χ^2/NDF : 424285.0/26

All: 1807.977+/-0.239 χ^2/NDF : 1168191.5/51

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: 109.595+/-132.347 χ^2/NDF : 2.2/8

Right Out: -135.356+/-245.932 χ^2/NDF : 14.4/17

Left In: 195.775+/-156.949 χ^2/NDF : 5.6/8

Left: 145.408+/-101.177 χ^2/NDF : 7.9/17

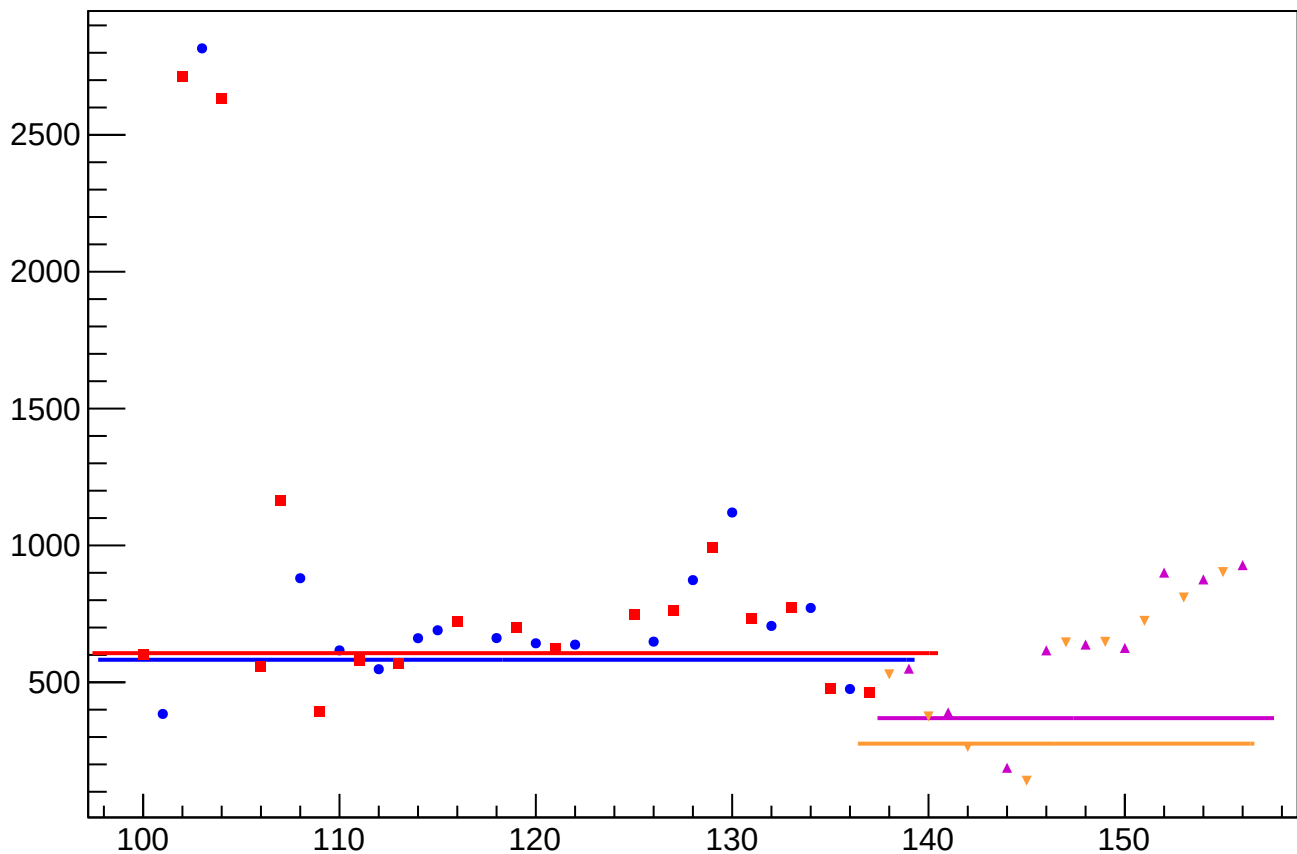
Right: -6.371+/-168.647 χ^2/NDF : 29.0/33

In: 168.209+/-129.945 χ^2/NDF : 19.8/24

Out: 54.587+/-116.543 χ^2/NDF : 17.3/26

All: 105.239+/-86.761 χ^2/NDF : 37.6/51

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 582.268 ± 0.164 $\chi^2/\text{NDF}: 1754289.3/15$

Left Out: 275.787 ± 0.094 $\chi^2/\text{NDF}: 4957480.3/8$

Right Out: 606.447 ± 0.174 $\chi^2/\text{NDF}: 2198414.3/17$

Left In: 369.007 ± 0.111 $\chi^2/\text{NDF}: 4309645.1/8$

Left: 314.527 ± 0.072 $\chi^2/\text{NDF}: 9679470.0/17$

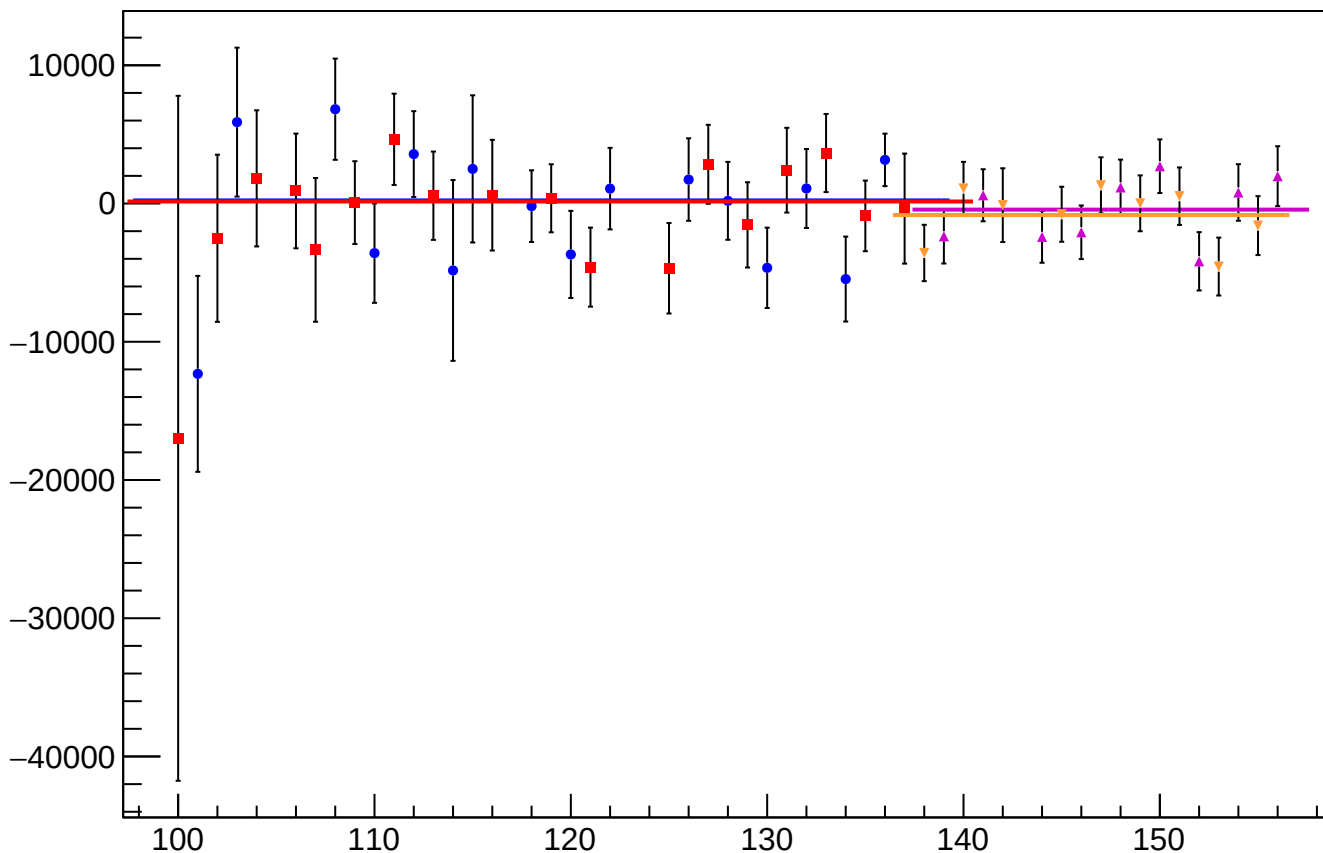
Right: 593.638 ± 0.119 $\chi^2/\text{NDF}: 3962944.4/33$

In: 436.079 ± 0.092 $\chi^2/\text{NDF}: 7225298.5/24$

Out: 350.042 ± 0.082 $\chi^2/\text{NDF}: 9959440.3/26$

All: 388.396 ± 0.061 $\chi^2/\text{NDF}: 17670650.1/51$

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: -833.432+/-695.125 χ^2/NDF : 7.9/8

Right Out: 147.974+/-794.180 χ^2/NDF : 11.6/17

Left In: -440.731+/-662.357 χ^2/NDF : 11.1/8

Left: -627.607+/-479.523 χ^2/NDF : 19.1/17

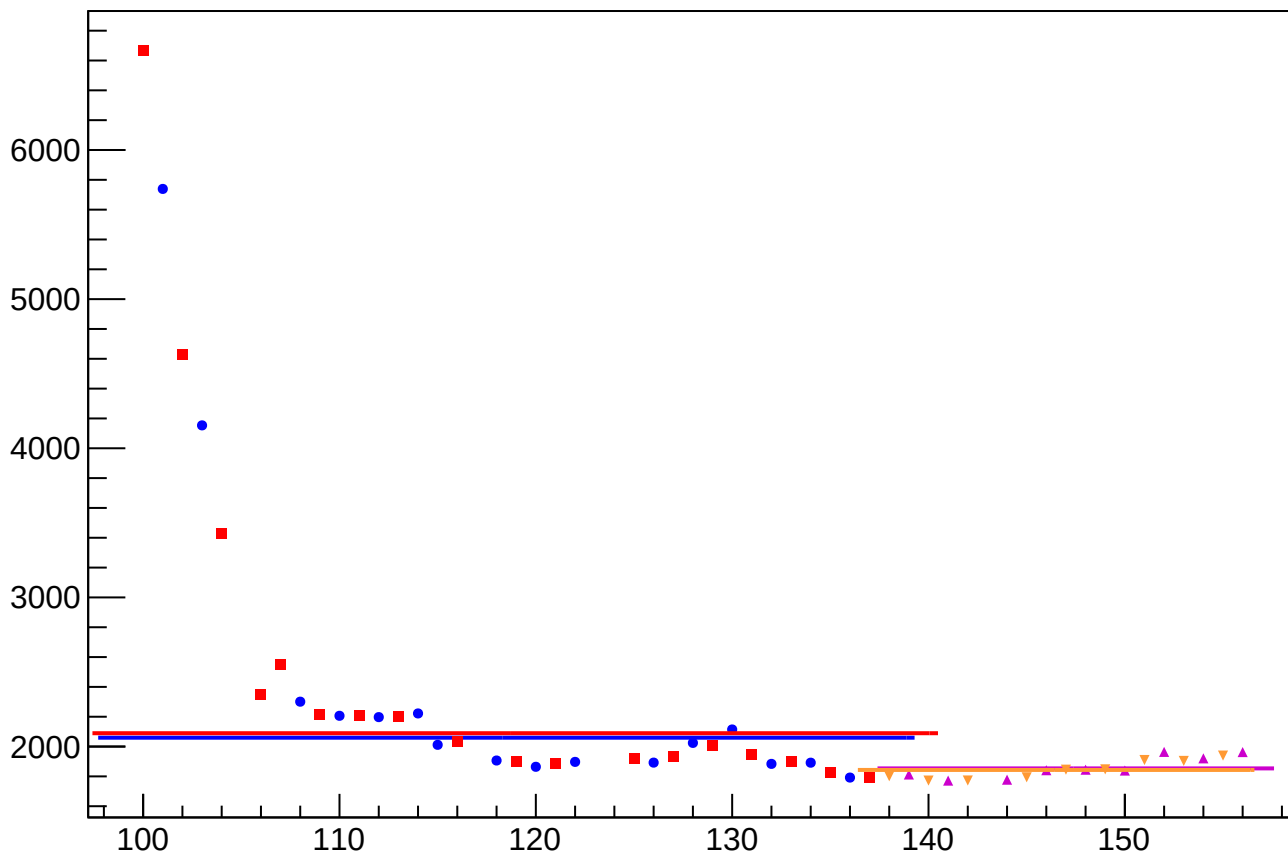
Right: 186.369+/-560.683 χ^2/NDF : 32.7/33

In: -166.808+/-508.007 χ^2/NDF : 32.7/24

Out: -407.715+/-523.064 χ^2/NDF : 20.3/26

All: -283.744+/-364.422 χ^2/NDF : 53.1/51

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: 1843.214+/-0.492 χ^2/NDF : 14025.6/8

Right Out: 2089.476+/-0.562 χ^2/NDF : 681465.8/17

Left In: 1853.540+/-0.468 χ^2/NDF : 20907.4/8

Left: 1848.626+/-0.339 χ^2/NDF : 35164.4/17

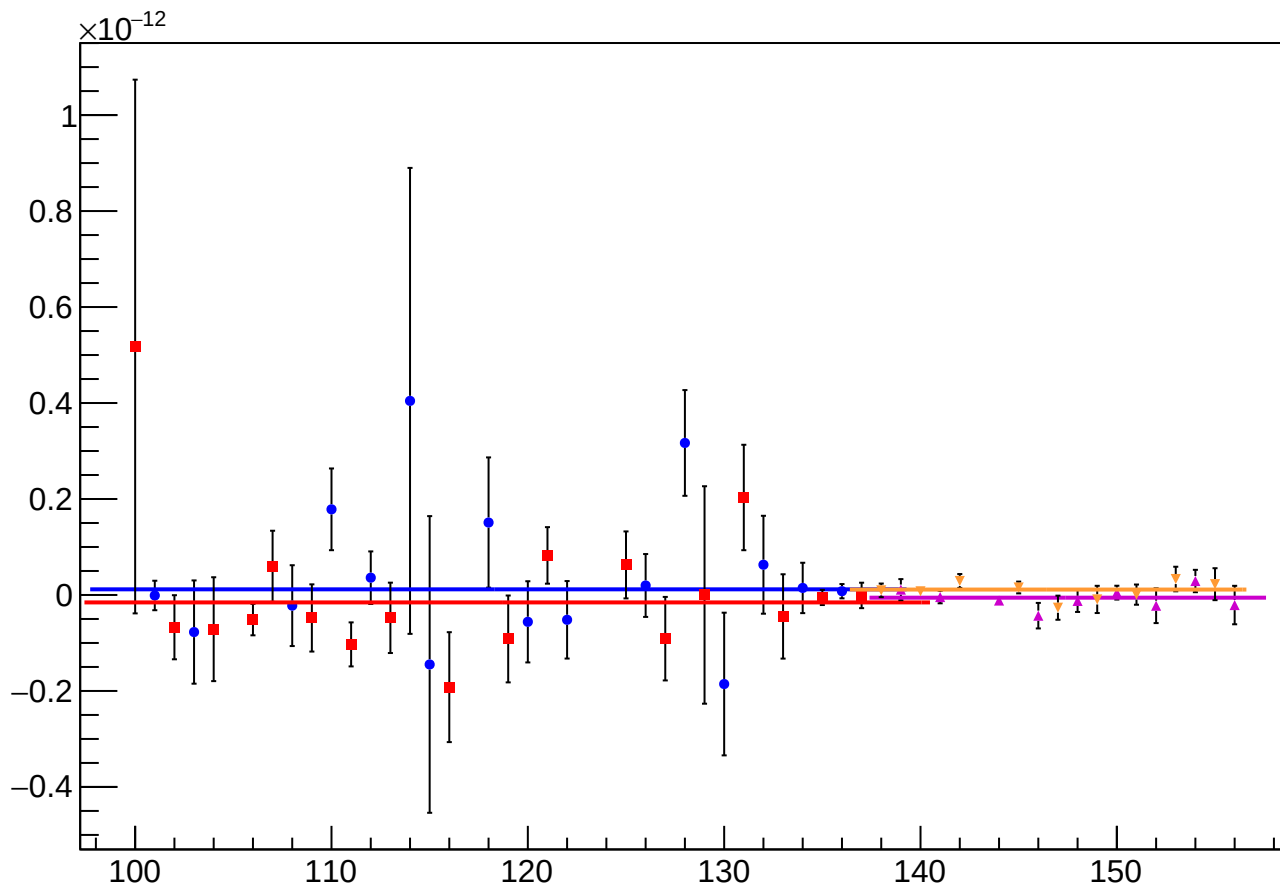
Right: 2074.439+/-0.396 χ^2/NDF : 1622768.9/33

In: 1938.344+/-0.359 χ^2/NDF : 1040403.8/24

Out: 1950.038+/-0.370 χ^2/NDF : 804378.2/26

All: 1944.021+/-0.258 χ^2/NDF : 1845296.5/51

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 : 5.7/8

Right Out: -0.000+/-0.000 χ^2/NDF : 20.7/17

Left In: -0.000+/-0.000 χ^2/NDF : 6.2/8

Left: 0.000+/-0.000 χ^2/NDF : 16.6/17

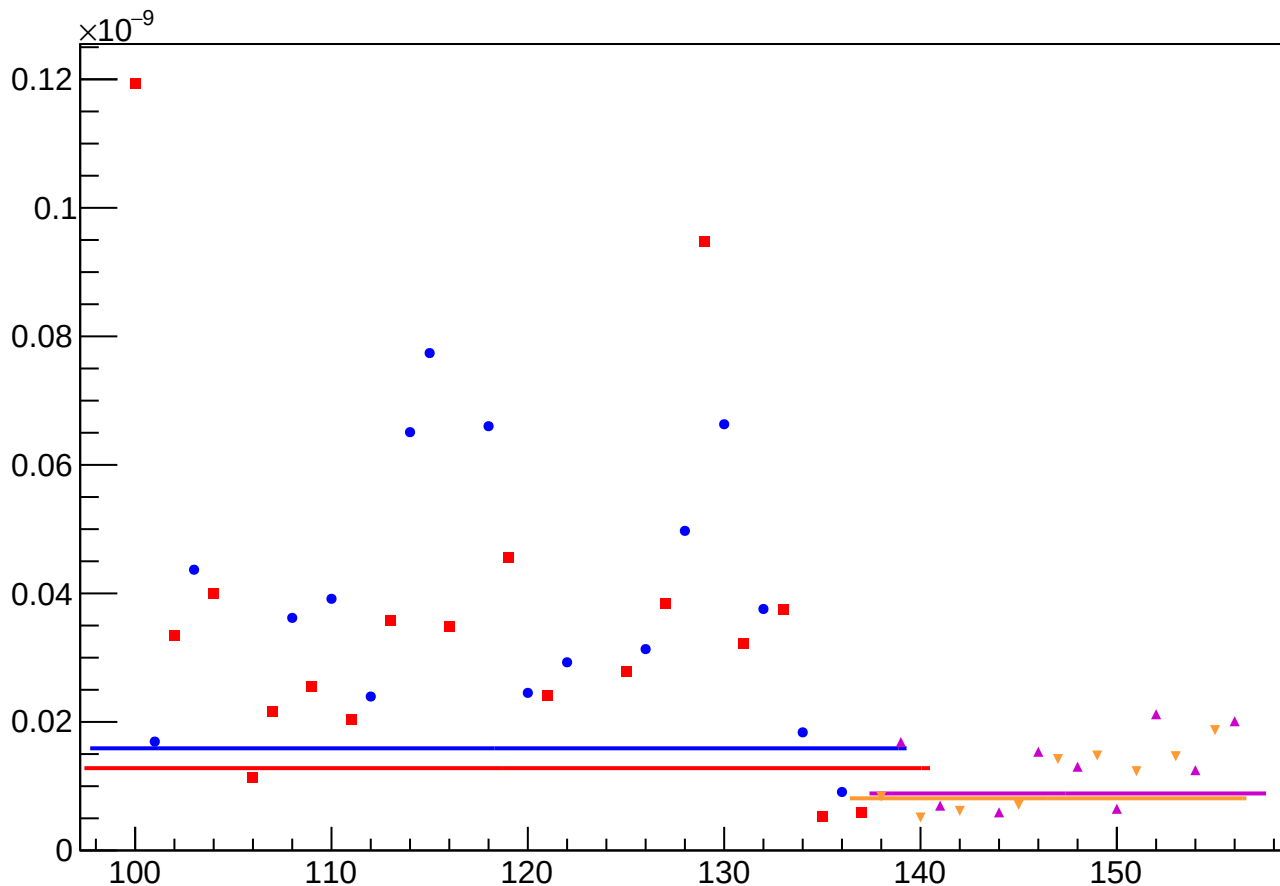
Right: -0.000+/-0.000 χ^2/NDF : 41.8/33

In: -0.000+/-0.000 χ^2/NDF : 26.1/24

Out: 0.000+/-0.000 χ^2/NDF : 31.4/26

All: 0.000+/-0.000 χ^2/NDF : 58.8/51

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 : 885697.4/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2486058.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 1187315.8/8

Left: 0.000+/-0.000 χ^2/NDF : 2091700.0/17

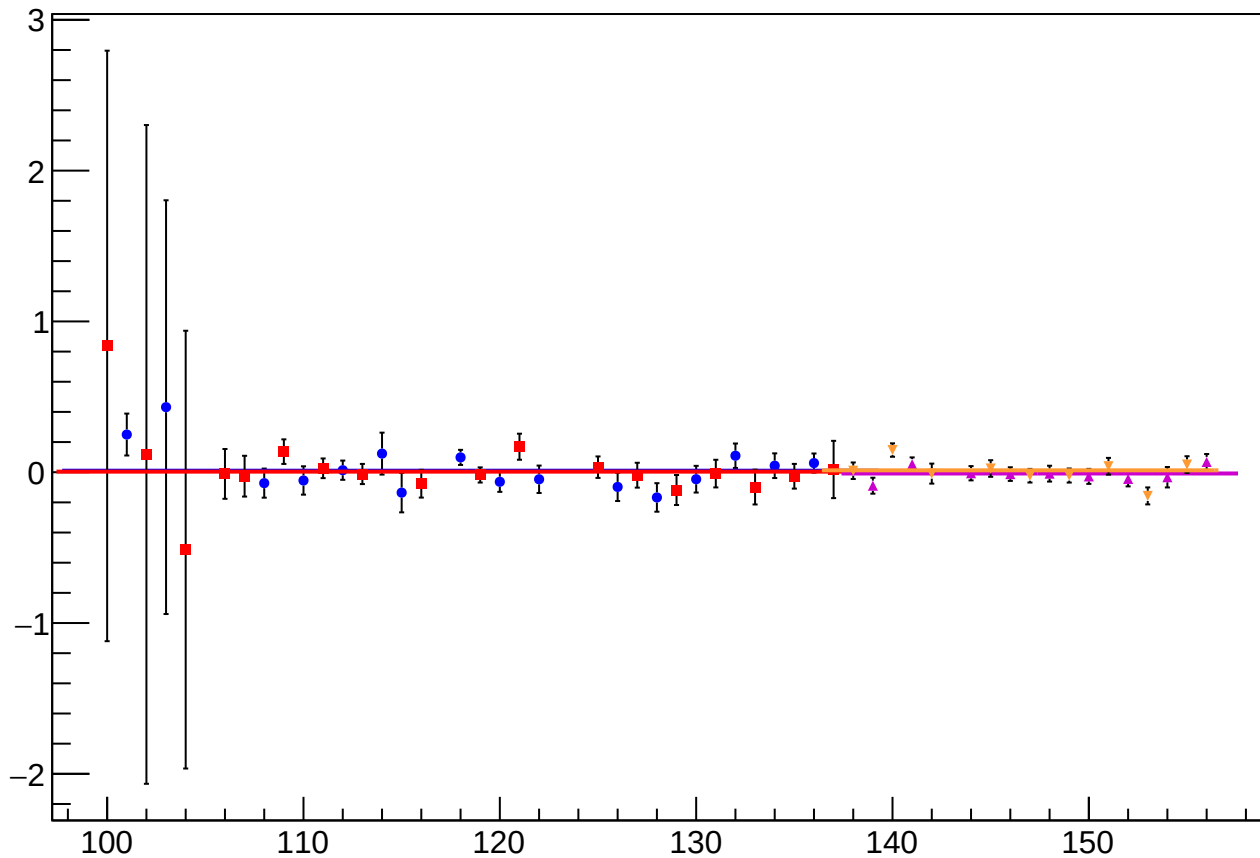
Right: 0.000+/-0.000 χ^2/NDF : 4498662.7/33

In: 0.000+/-0.000 χ^2/NDF : 3716918.2/24

Out: 0.000+/-0.000 χ^2/NDF : 3680467.4/26

All: 0.000+/-0.000 χ^2/NDF : 7453593.9/51

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: 0.013 $\pm$ 0.017 χ^2 /NDF:20.2/8

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.008 $\pm$ 0.017 χ^2 /NDF:7.2/8

Left: 0.002 $\pm$ 0.012 χ^2 /NDF: 28.1/17

Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

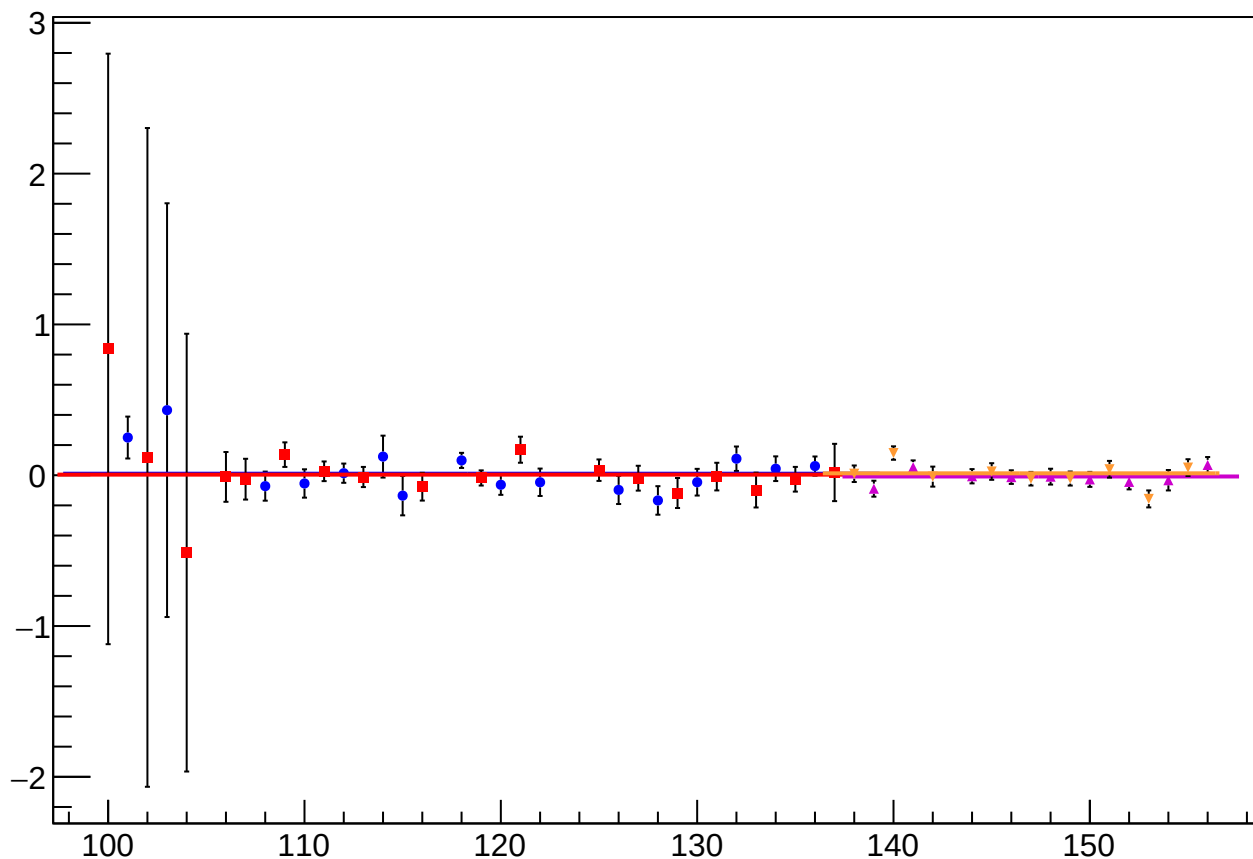
In: -0.001 $\pm$ 0.013 χ^2 /NDF:26.1/24

Out: 0.009 $\pm$ 0.014 χ^2 /NDF:30.8/26

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 57.2/51

All: 45.314+/-0.007 χ^2/NDF : 4705178.0/51

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: 0.013 $\pm$ 0.017 χ^2 /NDF:20.2/8

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.008 $\pm$ 0.017 χ^2 /NDF:7.2/8

Left: 0.002 $\pm$ 0.012 χ^2 /NDF: 28.1/17

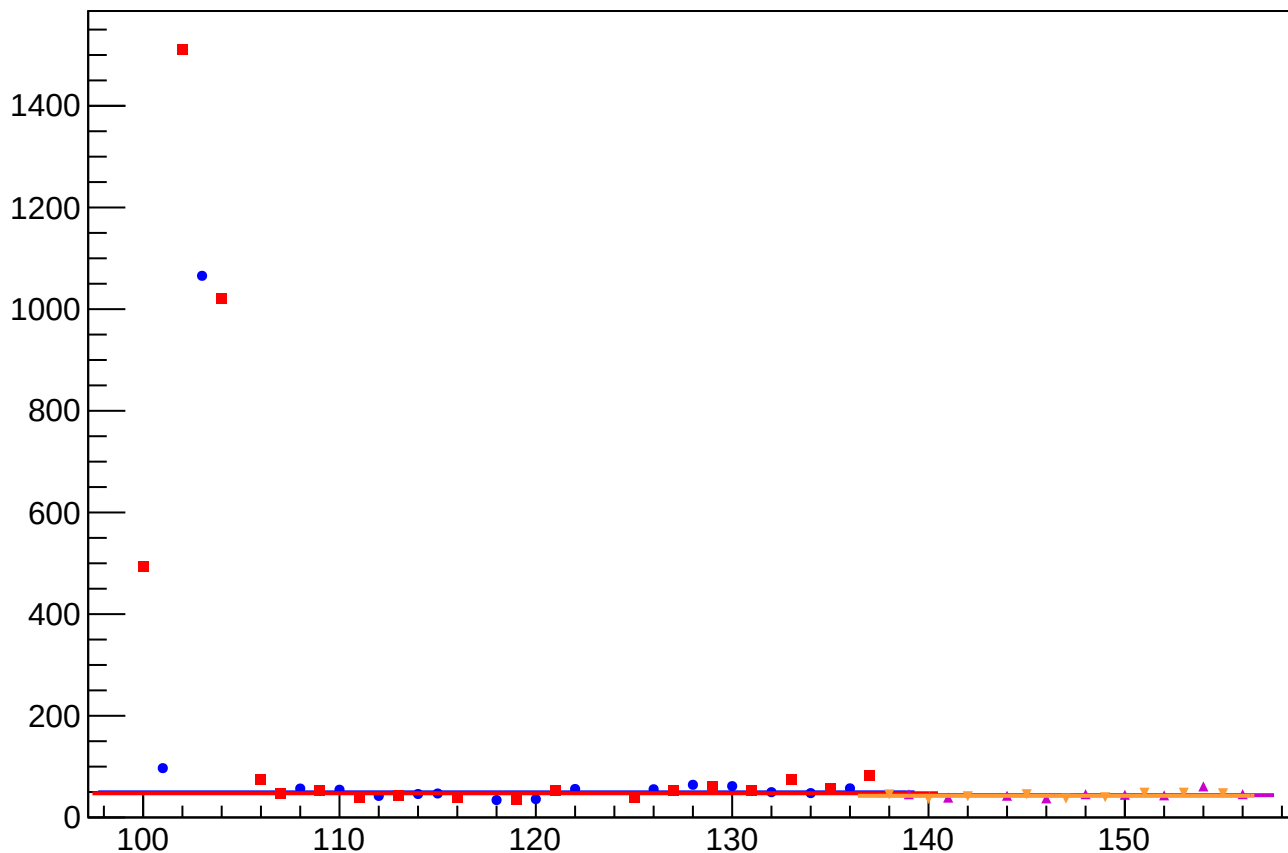
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: -0.001 $\pm$ 0.013 χ^2 /NDF:26.1/24

Out: 0.009 $\pm$ 0.014 χ^2 /NDF:30.8/26

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 57.2/51

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: 42.581+/-0.012 χ^2/NDF : 151050.4/8

Right Out: 47.599+/-0.015 χ^2/NDF : 2418219.3/17

Left In: 43.883+/-0.012 χ^2/NDF : 198849.6/8

Left: 43.254+/-0.009 χ^2/NDF : 355695.9/17

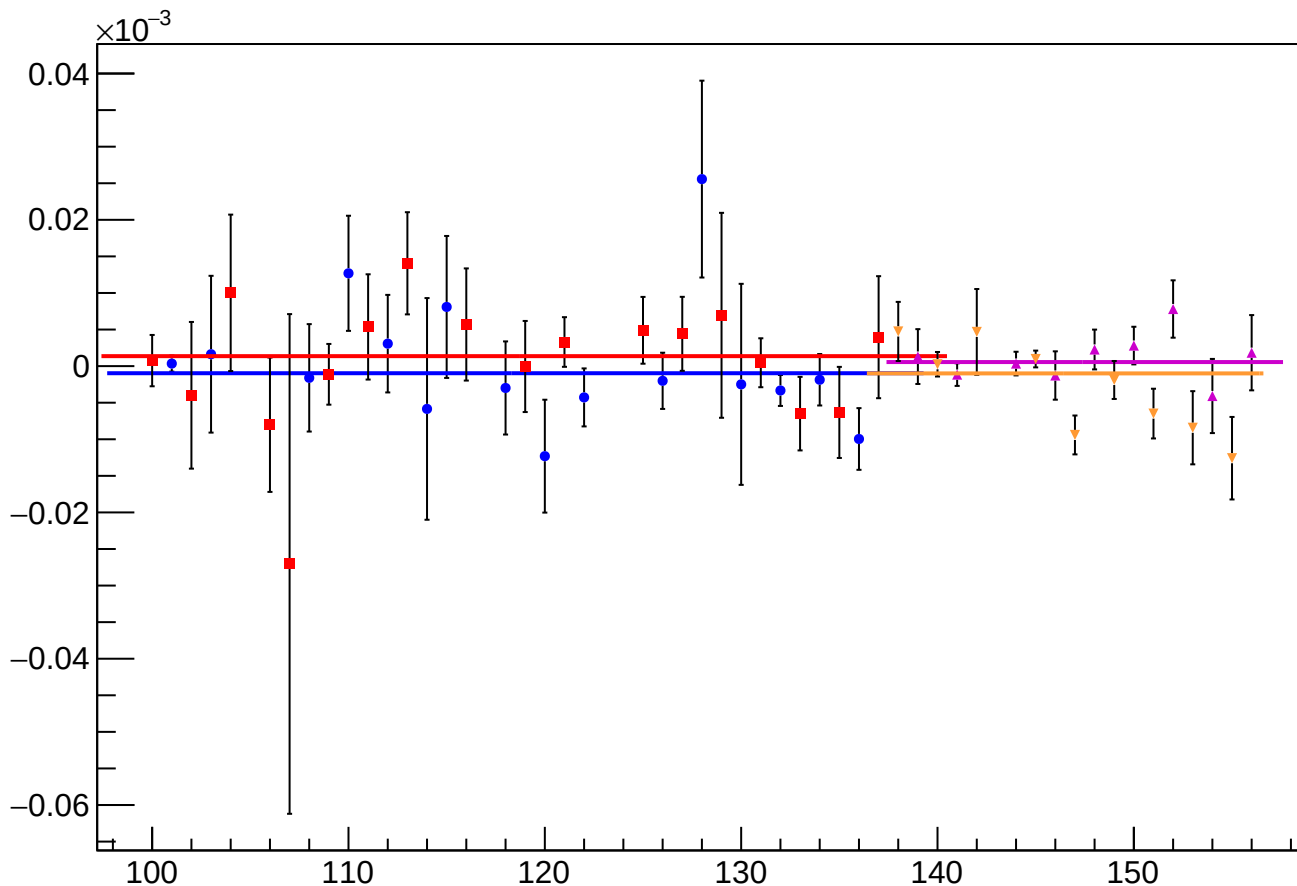
Right: 48.487+/-0.011 χ^2/NDF : 4201890.6/33

In: 46.018+/-0.009 χ^2/NDF : 2058105.9/24

Out: 44.566+/-0.010 χ^2/NDF : 2635182.6/26

All: 45.314+/-0.007 χ^2/NDF : 4705178.0/51

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 : 25.7/8

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 7.1/8

Left: -0.000+/-0.000 χ^2/NDF : 34.6/17

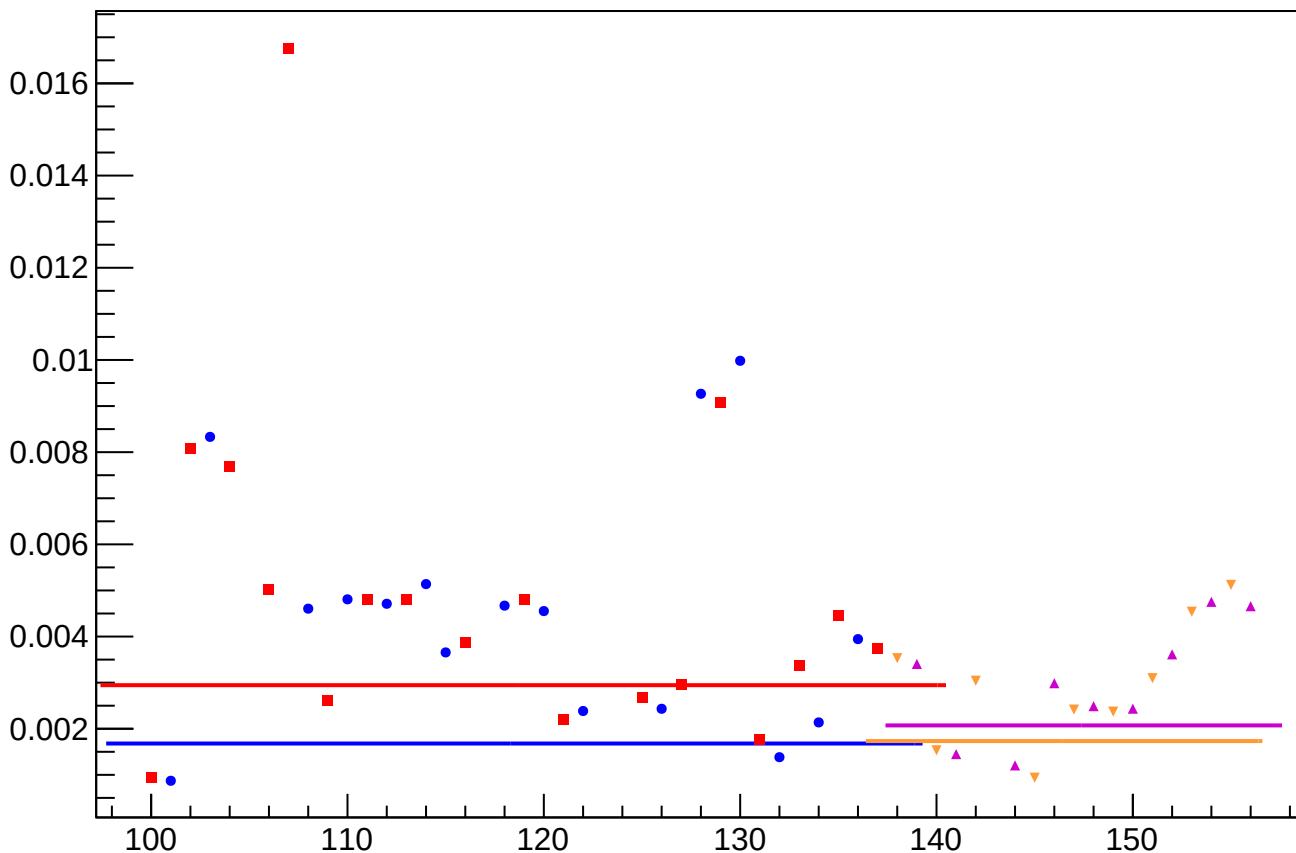
Right: -0.000+/-0.000 χ^2/NDF : 33.6/33

In: -0.000+/-0.000 χ^2/NDF : 27.4/24

Out: -0.000+/-0.000 χ^2/NDF : 40.7/26

All: -0.000+/-0.000 χ^2/NDF : 68.1/51

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 : 3411316.0/8

Right Out: 0.003+/-0.000 χ^2/NDF : 3379848.5/17

Left In: 0.002+/-0.000 χ^2/NDF : 2767186.7/8

Left: 0.002+/-0.000 χ^2/NDF : 6352747.6/17

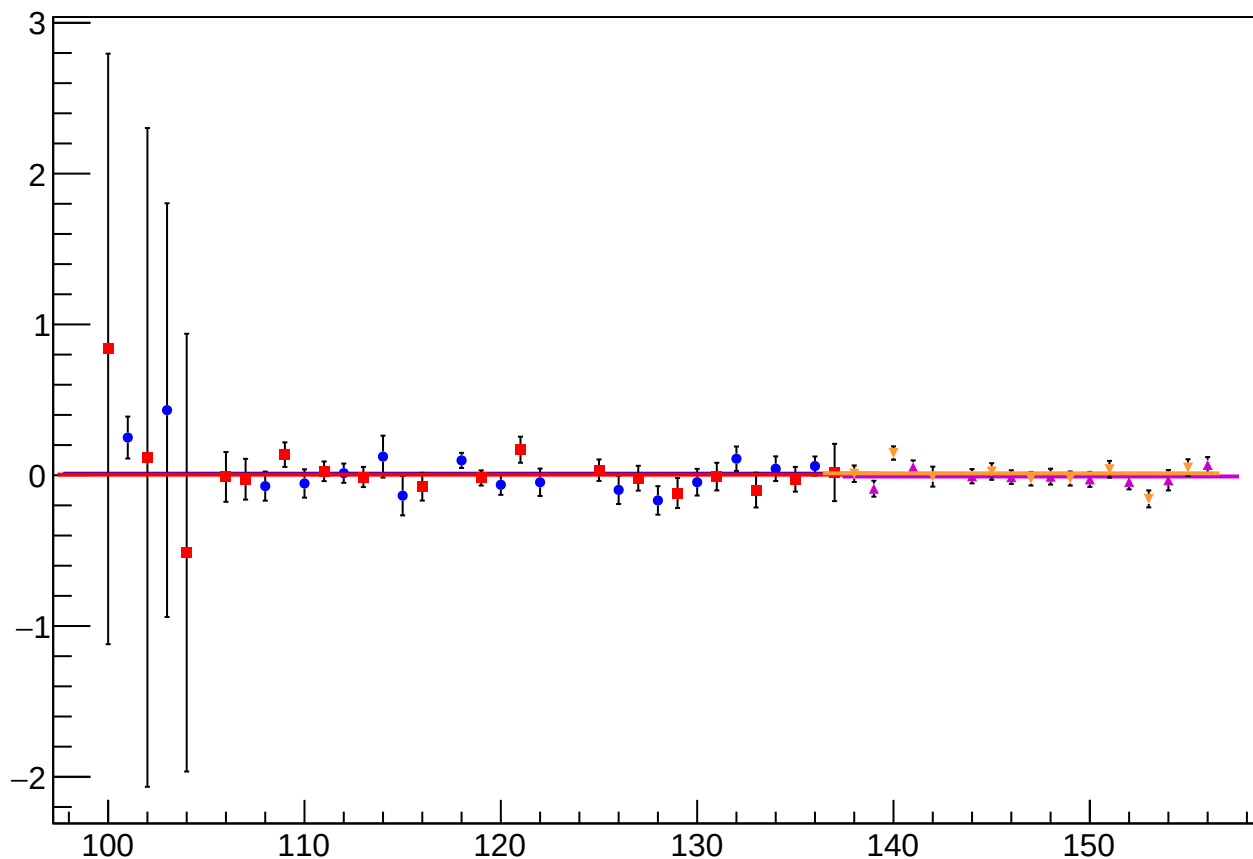
Right: 0.002+/-0.000 χ^2/NDF : 10702272.5/33

In: 0.002+/-0.000 χ^2/NDF : 8946600.9/24

Out: 0.002+/-0.000 χ^2/NDF : 8087721.4/26

All: 0.002+/-0.000 χ^2/NDF : 17119612.2/51

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: 0.013 $\pm$ 0.017 χ^2 /NDF:20.2/8

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.008 $\pm$ 0.017 χ^2 /NDF:7.2/8

Left: 0.002 $\pm$ 0.012 χ^2 /NDF: 28.1/17

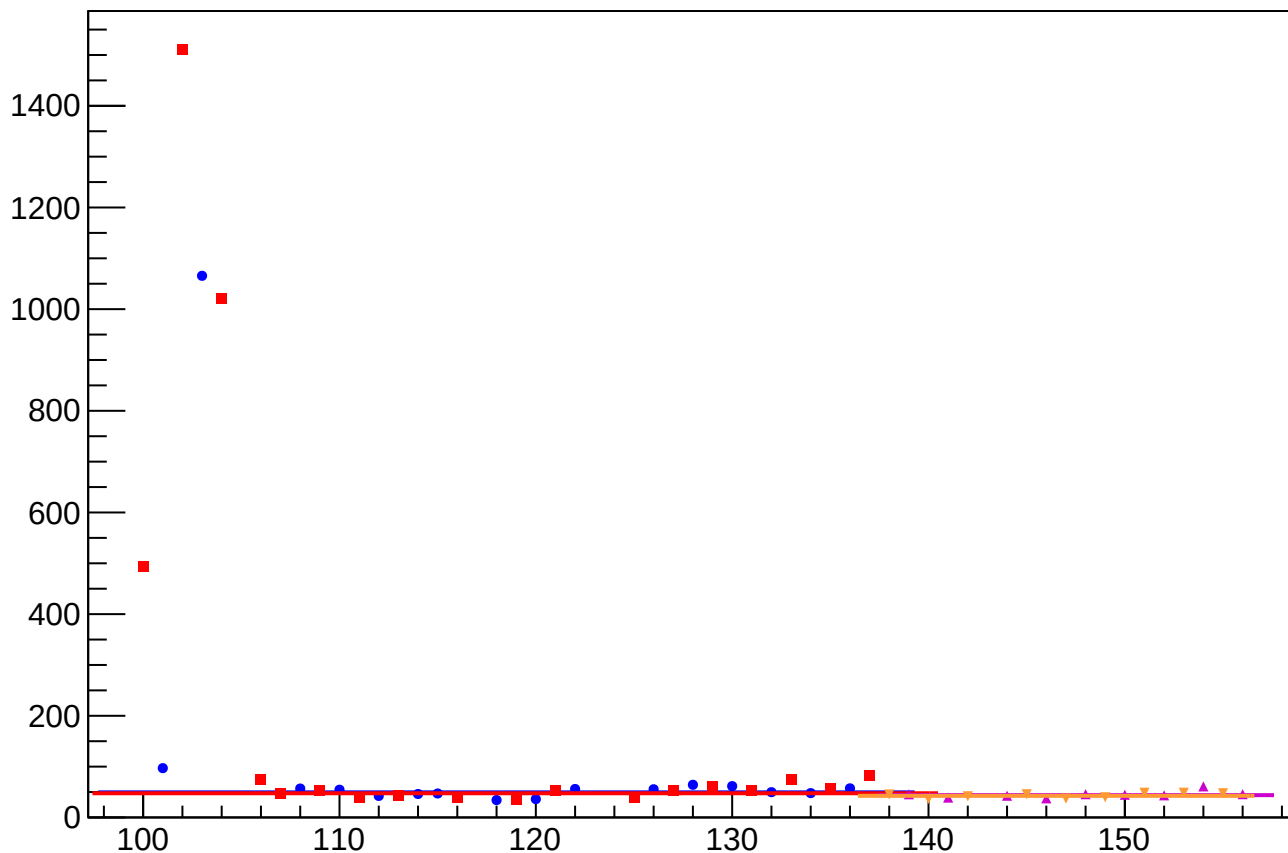
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: -0.001 $\pm$ 0.013 χ^2 /NDF:26.1/24

Out: 0.009 $\pm$ 0.014 χ^2 /NDF:30.8/26

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 57.2/51

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: 42.582+/-0.012 χ^2/NDF : 151069.0/8

Right Out: 47.598+/-0.015 χ^2/NDF : 2418253.9/17

Left In: 43.883+/-0.012 χ^2/NDF : 198897.1/8

Left: 43.254+/-0.009 χ^2/NDF : 355754.2/17

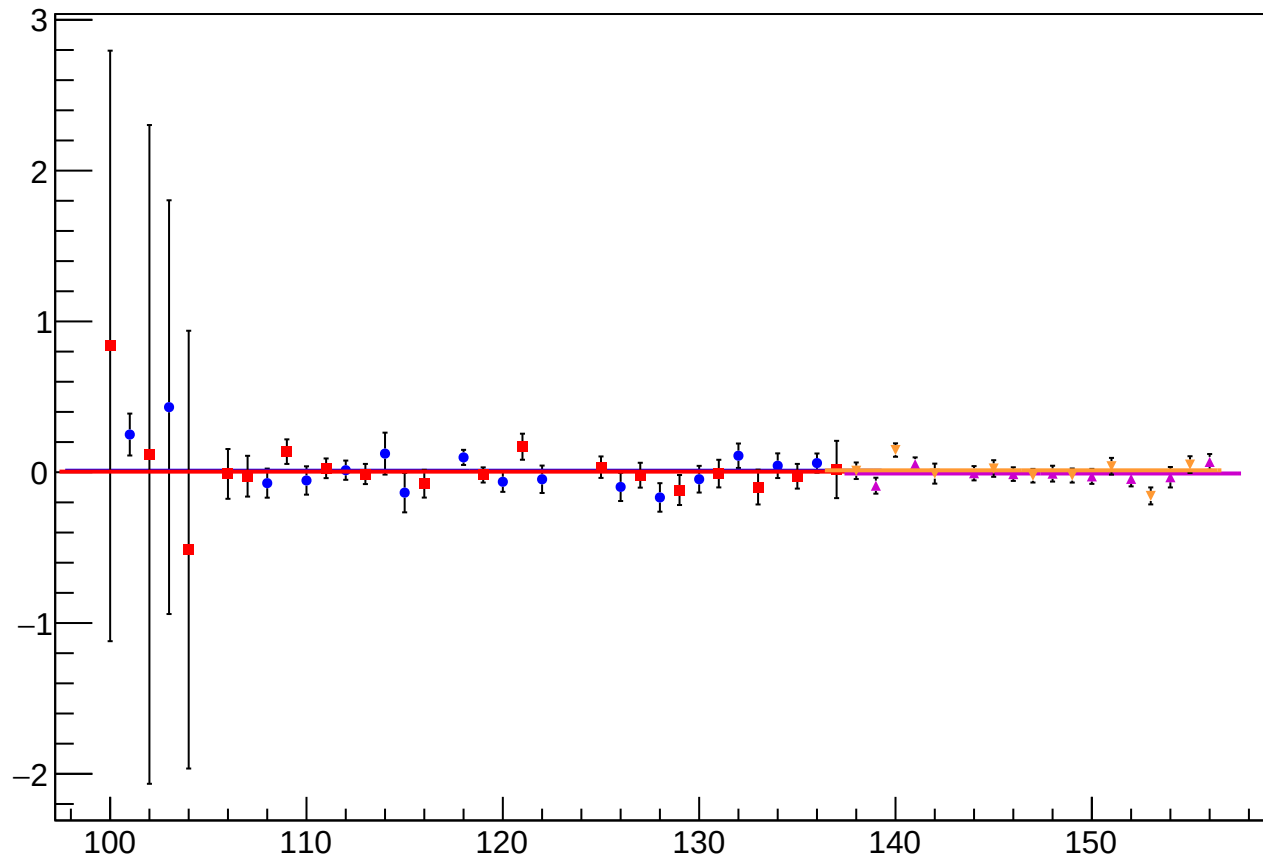
Right: 48.487+/-0.011 χ^2/NDF : 4201863.1/33

In: 46.018+/-0.009 χ^2/NDF : 2058108.0/24

Out: 44.566+/-0.010 χ^2/NDF : 2635203.8/26

All: 45.314+/-0.007 χ^2/NDF : 4705199.2/51

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: 0.013 $\pm$ 0.017 χ^2 /NDF:20.2/8

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.008 $\pm$ 0.017 χ^2 /NDF:7.2/8

Left: 0.002 $\pm$ 0.012 χ^2 /NDF: 28.1/17

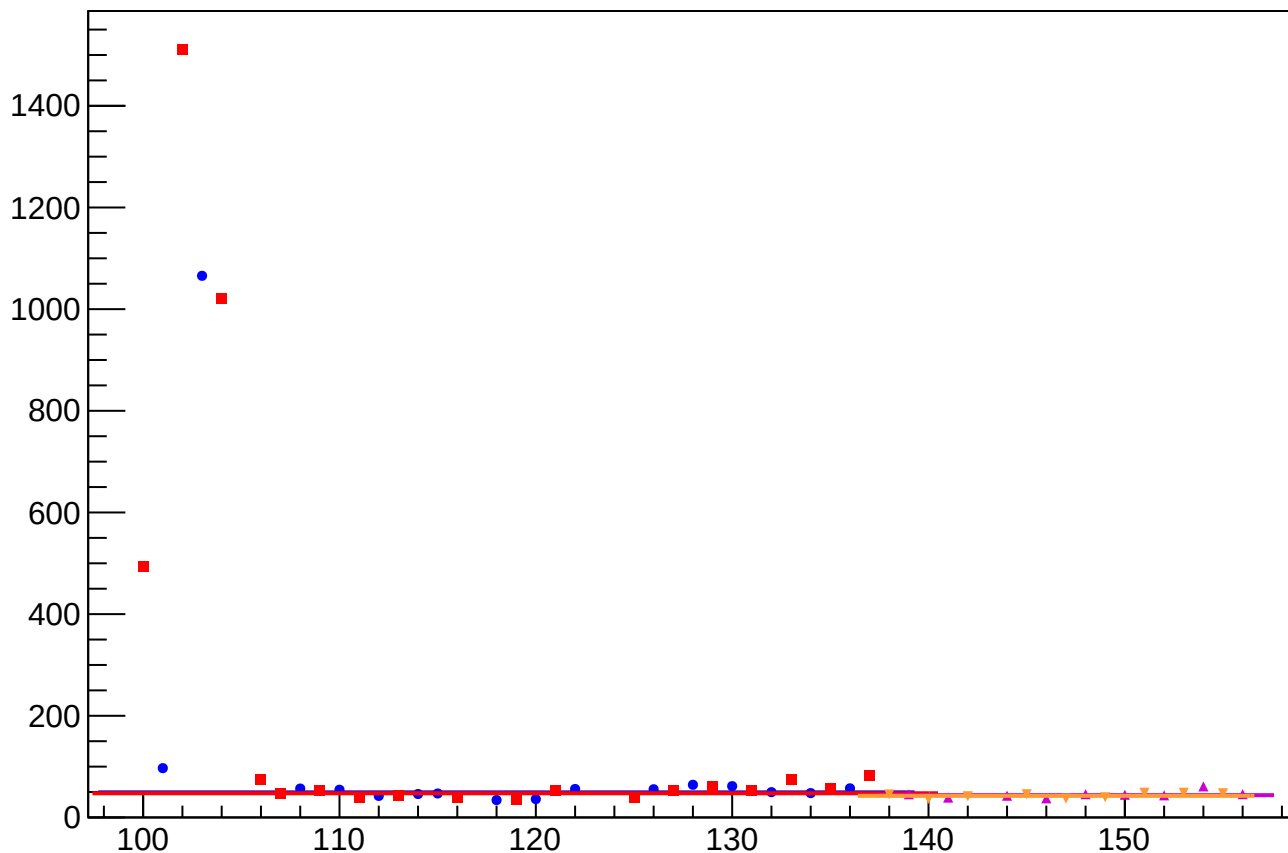
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: -0.001 $\pm$ 0.013 χ^2 /NDF:26.1/24

Out: 0.009 $\pm$ 0.014 χ^2 /NDF:30.8/26

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 57.2/51

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: 42.582+/-0.012 χ^2 /NDF:151069.0/8

Right Out: 47.598+/-0.015 χ^2 /NDF: 2418253.9/17

Left In: 43.883+/-0.012 χ^2 /NDF:198897.1/8

Left: 43.254+/-0.009 χ^2 /NDF: 355754.2/17

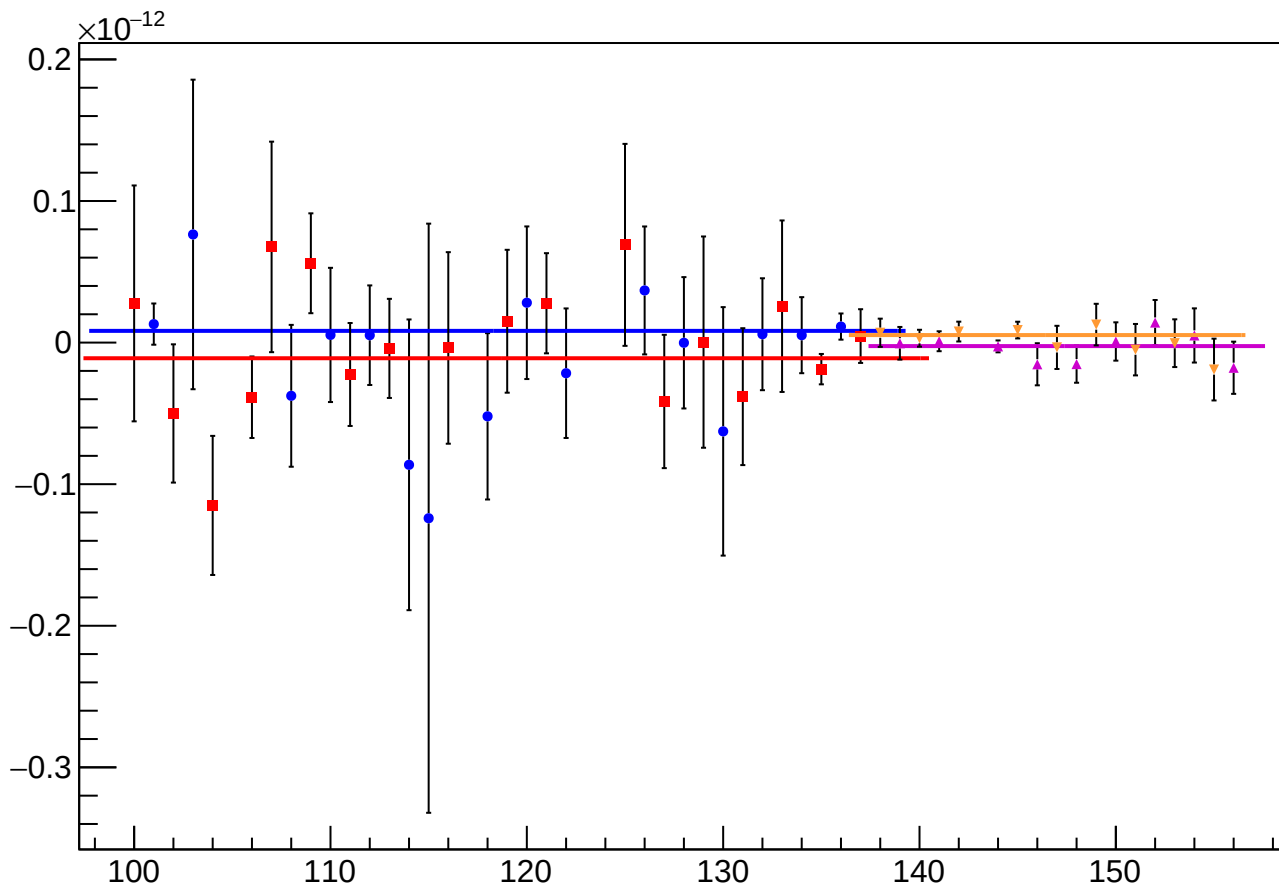
Right: 48.487+/-0.011 χ^2 /NDF: 4201863.1/33

In: 46.018+/-0.009 χ^2 /NDF:2058108.0/24

Out: 44.566+/-0.010 χ^2 /NDF:2635203.8/26

All: 45.314+/-0.007 χ^2 /NDF: 4705199.2/51

asym_us_avg_at1lr_avg_dd_eigen_cor_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 : 2.9/8

Right Out: -0.000+/-0.000 χ^2/NDF : 16.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.9/8

Left: 0.000+/-0.000 χ^2/NDF : 10.1/17

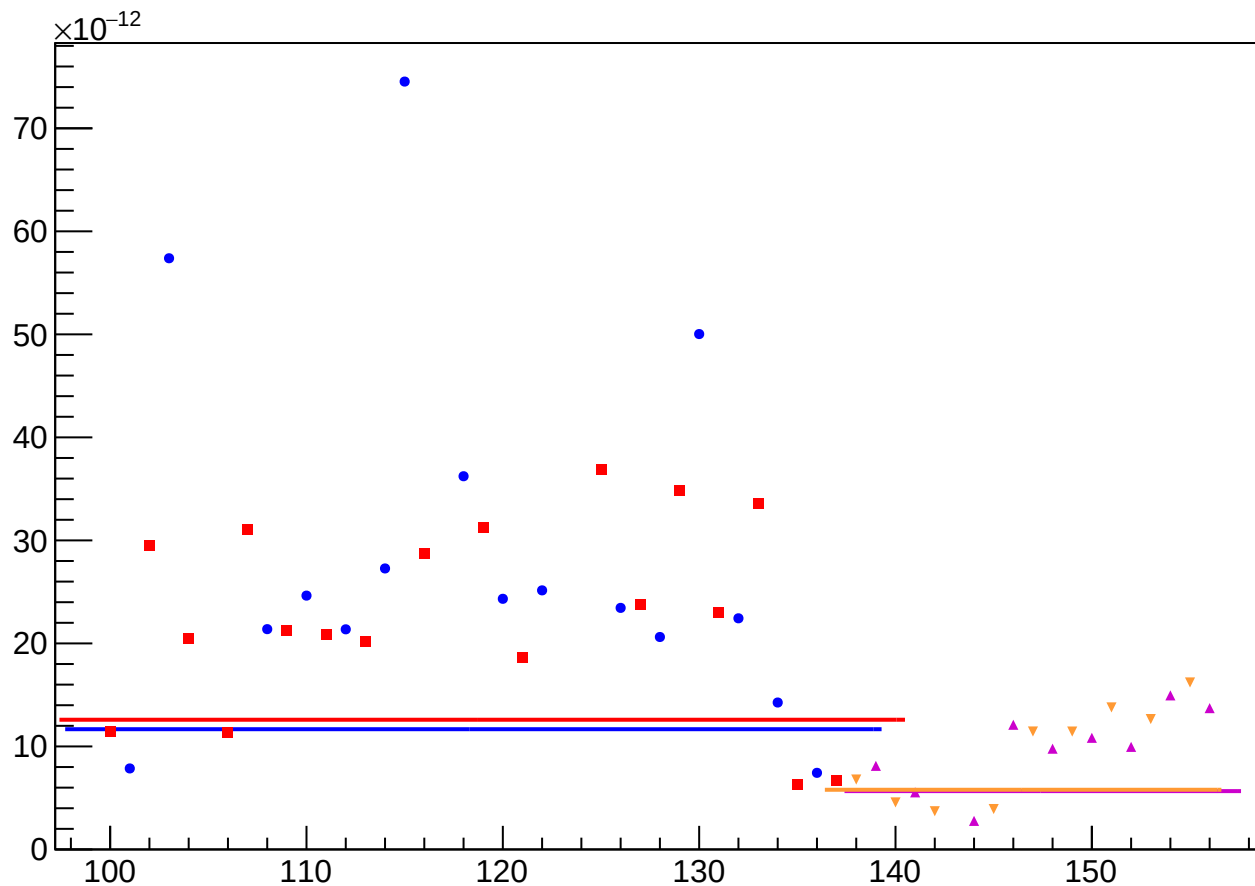
Right: -0.000+/-0.000 χ^2/NDF : 25.5/33

In: -0.000+/-0.000 χ^2/NDF : 11.5/24

Out: 0.000+/-0.000 χ^2/NDF : 23.4/26

All: 0.000+/-0.000 χ^2/NDF : 35.7/51

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 : 2228907.9/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2923298.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 2896930.9/8

Left: 0.000+/-0.000 χ^2/NDF : 5127673.2/17

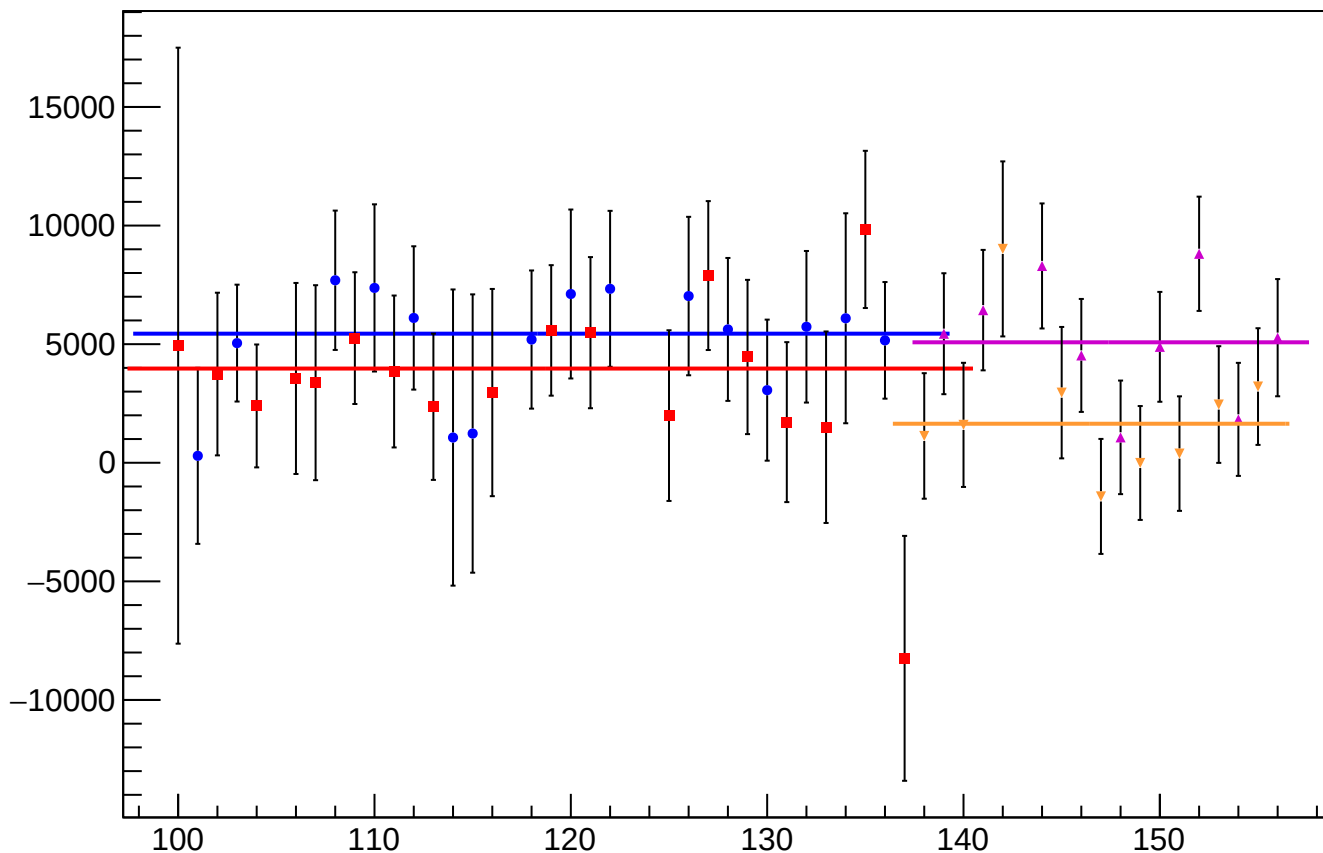
Right: 0.000+/-0.000 χ^2/NDF : 5846038.9/33

In: 0.000+/-0.000 χ^2/NDF : 7150568.9/24

Out: 0.000+/-0.000 χ^2/NDF : 6648706.8/26

All: 0.000+/-0.000 χ^2/NDF : 13802409.9/51

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: 1645.218 $\pm$ 864.319 χ^2 /NDF: 7.1/8

Right Out: 3971.728 $\pm$ 809.023 χ^2 /NDF: 13.0/17

Left In: 5078.502 $\pm$ 815.818 χ^2 /NDF: 8.9/8

Left: 3460.886 $\pm$ 593.276 χ^2 /NDF: 24.4/17

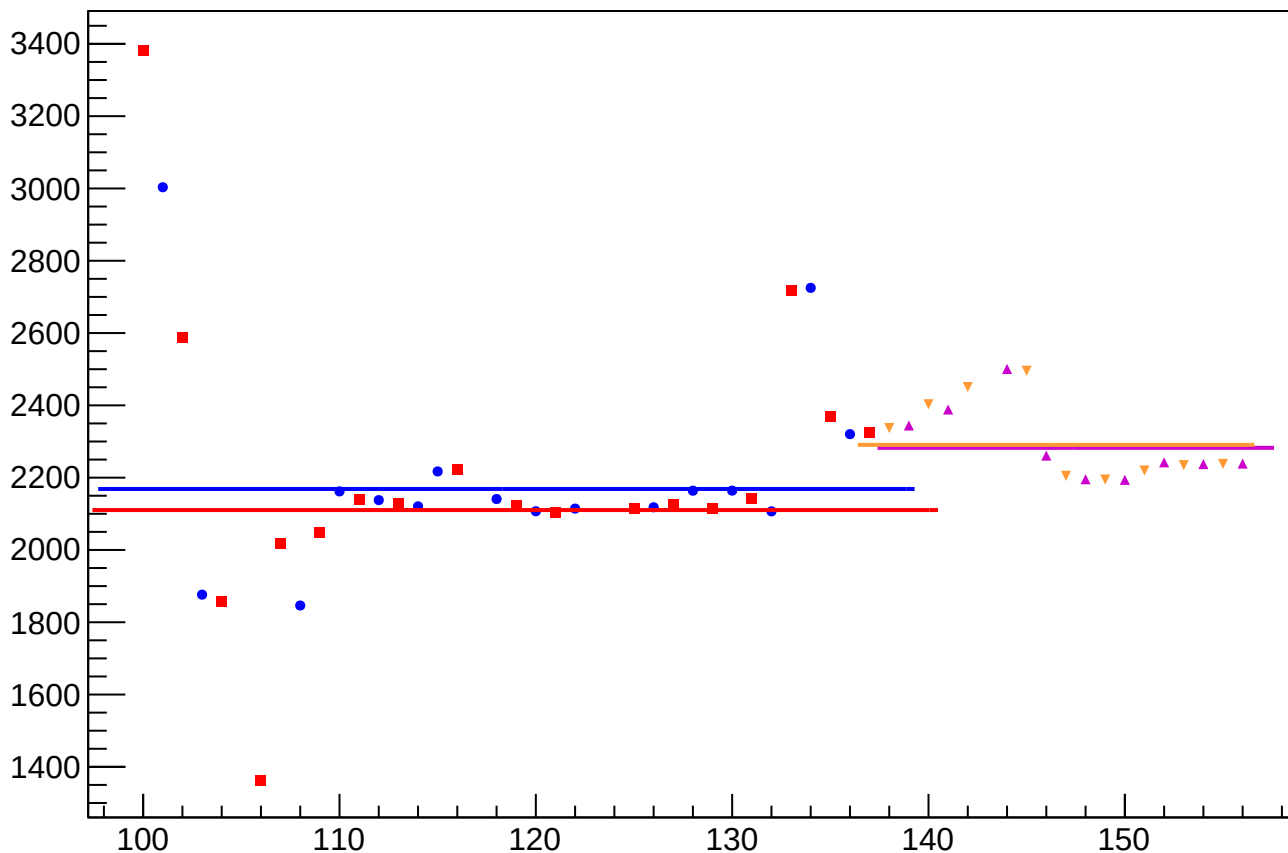
Right: 4703.849 $\pm$ 573.303 χ^2 /NDF: 20.0/33

In: 5261.153 $\pm$ 575.706 χ^2 /NDF: 14.4/24

Out: 2885.269 $\pm$ 590.647 χ^2 /NDF: 23.9/26

All: 4103.642 $\pm$ 412.267 χ^2 /NDF: 46.6/51

reg_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715+/-0.575 χ^2/NDF : 195659.5/15

Left Out: 2290.760+/-0.611 χ^2/NDF : 28405.5/8

Right Out: 2110.365+/-0.563 χ^2/NDF : 267413.4/17

Left In: 2282.514+/-0.577 χ^2/NDF : 25978.6/8

Left: 2286.399+/-0.420 χ^2/NDF : 54480.3/17

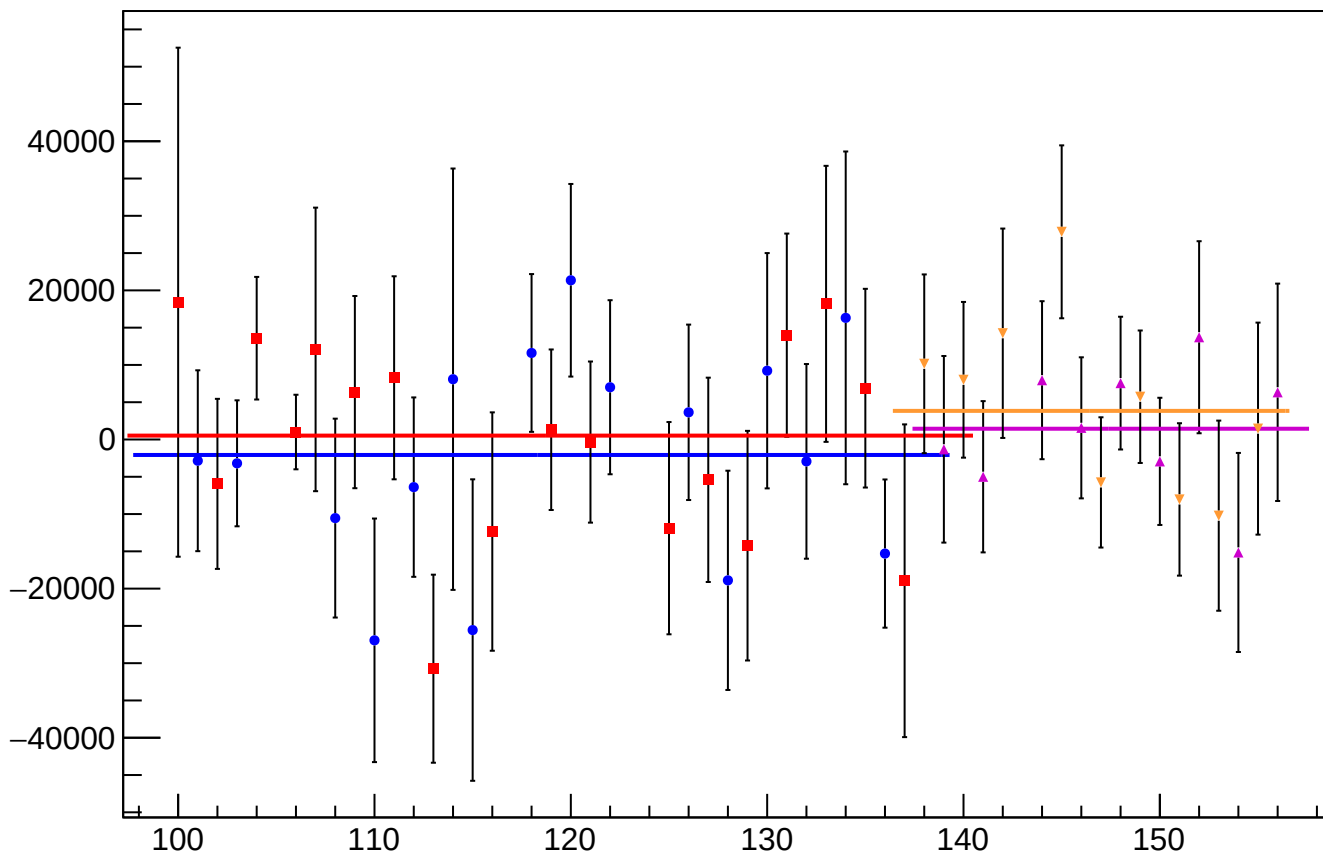
Right: 2138.947+/-0.402 χ^2/NDF : 468334.9/33

In: 2225.385+/-0.407 χ^2/NDF : 241174.2/24

Out: 2193.171+/-0.414 χ^2/NDF : 342949.5/26

All: 2209.552+/-0.290 χ^2/NDF : 587201.4/51

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: 3838.044 $\pm$ 3649.369 χ^2 /NDF:9.1/8

Right Out: 521.454 $\pm$ 2715.587 χ^2 /NDF: 15.7/17

Left In: 1443.688 $\pm$ 3560.144 χ^2 /NDF:4.1/8

Left: 2611.238 $\pm$ 2548.362 χ^2 /NDF: 13.5/17

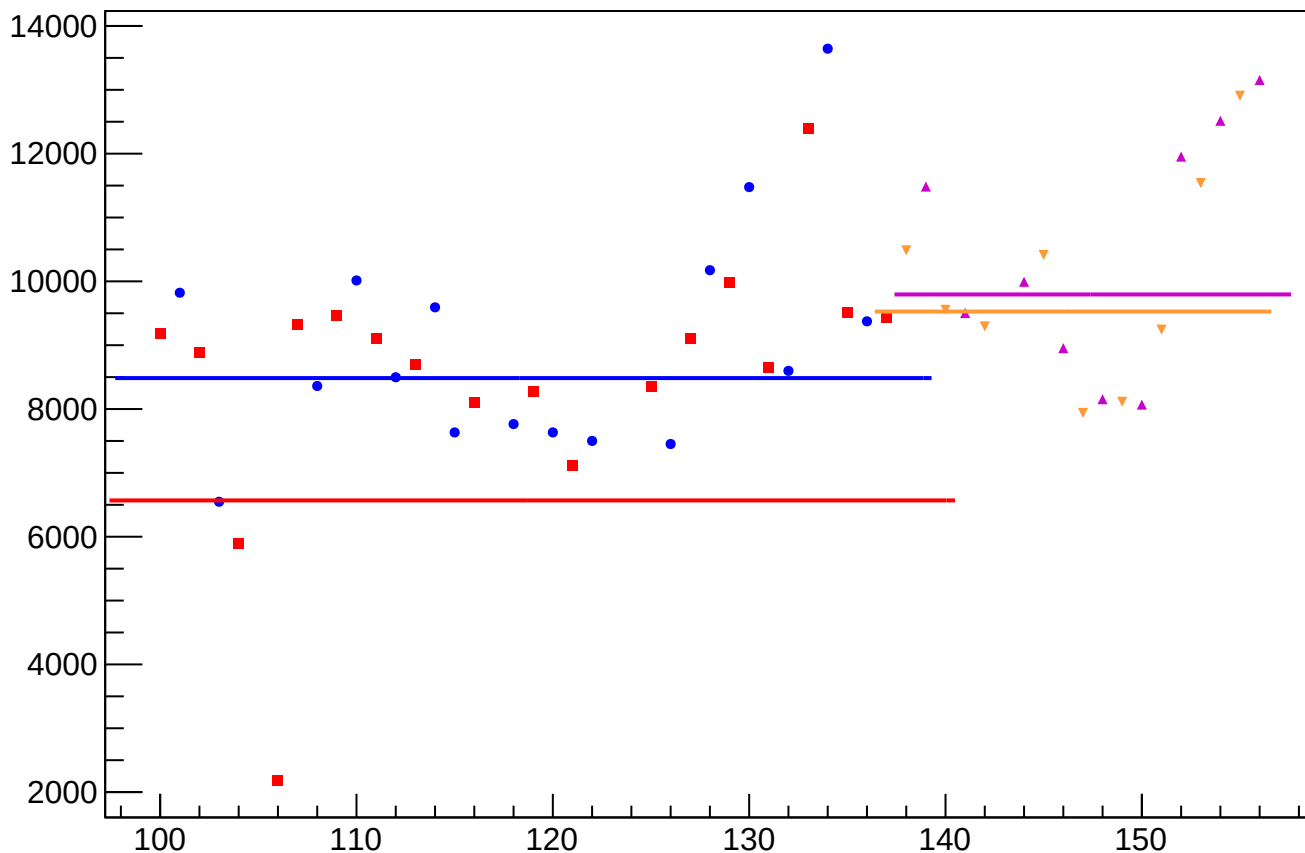
Right: -560.742 $\pm$ 2073.786 χ^2 /NDF: 30.5/33

In: -495.932 $\pm$ 2384.875 χ^2 /NDF:19.1/24

Out: 1703.434 $\pm$ 2178.598 χ^2 /NDF:25.3/26

All: 702.964 $\pm$ 1608.492 χ^2 /NDF: 44.9/51

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 8485.000 $\pm$ 2.271 χ^2 /NDF: 422706.1/15

Left Out: 9526.801 $\pm$ 2.580 χ^2 /NDF: 306136.4/8

Right Out: 6568.711 $\pm$ 1.920 χ^2 /NDF: 2568887.0/17

Left In: 9794.976 $\pm$ 2.517 χ^2 /NDF: 449919.4/8

Left: 9664.207 $\pm$ 1.802 χ^2 /NDF: 761589.5/17

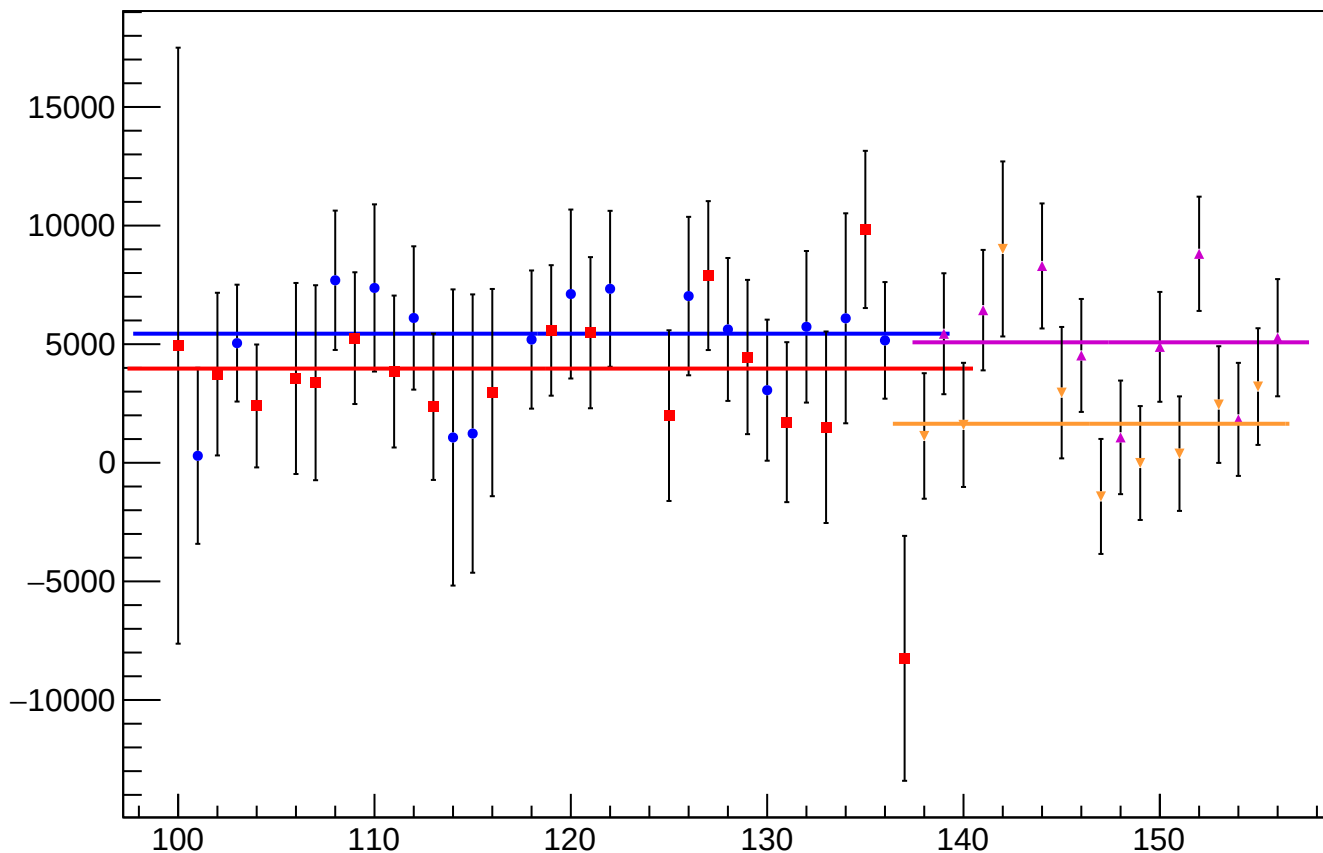
Right: 7367.464 $\pm$ 1.466 χ^2 /NDF: 3406715.7/33

In: 9072.841 $\pm$ 1.686 χ^2 /NDF: 1021897.1/24

Out: 7622.927 $\pm$ 1.541 χ^2 /NDF: 3720777.1/26

All: 8282.479 $\pm$ 1.137 χ^2 /NDF: 5145638.6/51

cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.478 ± 812.534 $\chi^2/\text{NDF}: 5.4/15$

Left Out: 1645.152 ± 864.319 $\chi^2/\text{NDF}: 7.1/8$

Right Out: 3971.470 ± 809.023 $\chi^2/\text{NDF}: 13.0/17$

Left In: 5078.730 ± 815.818 $\chi^2/\text{NDF}: 8.9/8$

Left: 3460.976 ± 593.276 $\chi^2/\text{NDF}: 24.4/17$

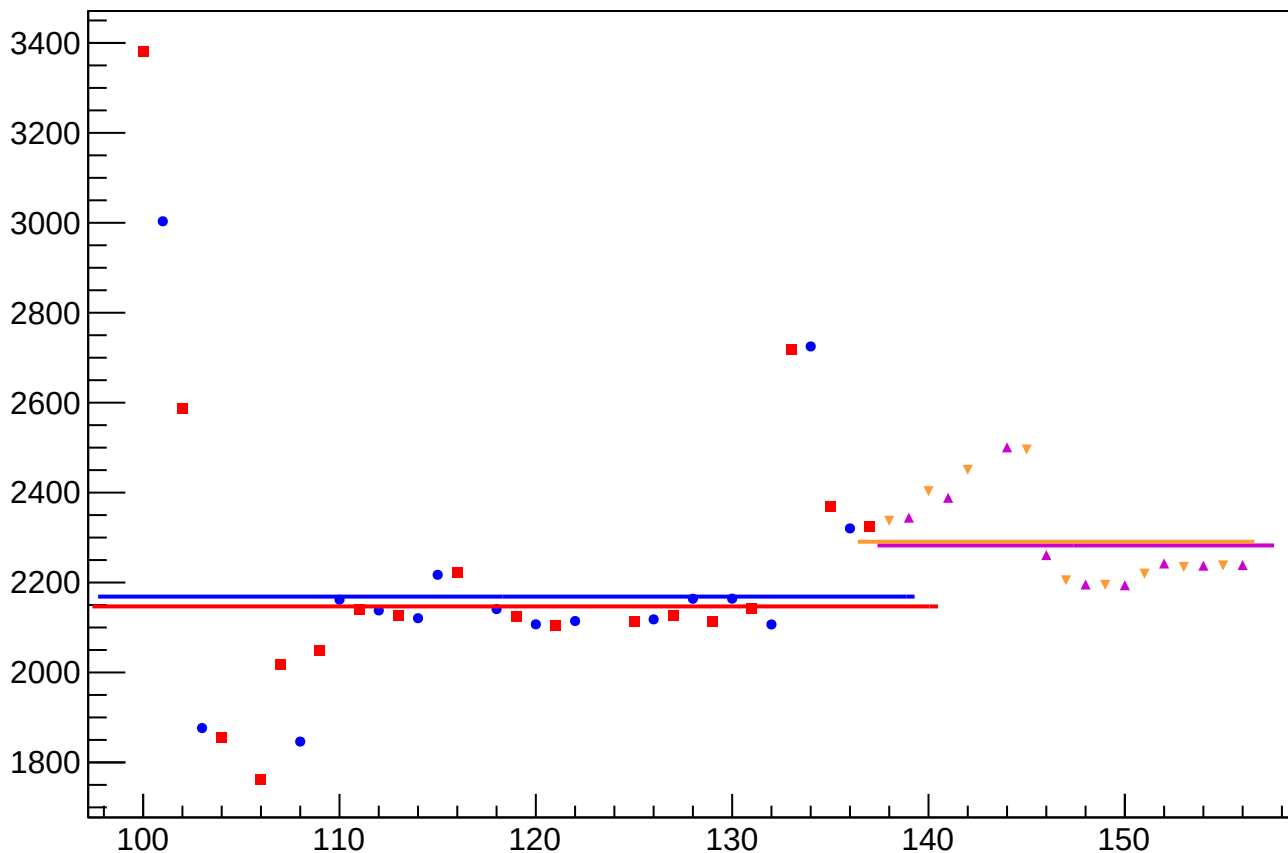
Right: 4703.790 ± 573.303 $\chi^2/\text{NDF}: 20.0/33$

In: 5261.338 ± 575.706 $\chi^2/\text{NDF}: 14.4/24$

Out: 2885.100 ± 590.647 $\chi^2/\text{NDF}: 23.9/26$

All: 4103.655 ± 412.267 $\chi^2/\text{NDF}: 46.6/51$

cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715+/-0.575 χ^2/NDF : 195659.8/15

Left Out: 2290.760+/-0.611 χ^2/NDF : 28405.5/8

Right Out: 2146.888+/-0.569 χ^2/NDF : 157750.7/17

Left In: 2282.514+/-0.577 χ^2/NDF : 25978.6/8

Left: 2286.399+/-0.420 χ^2/NDF : 54480.3/17

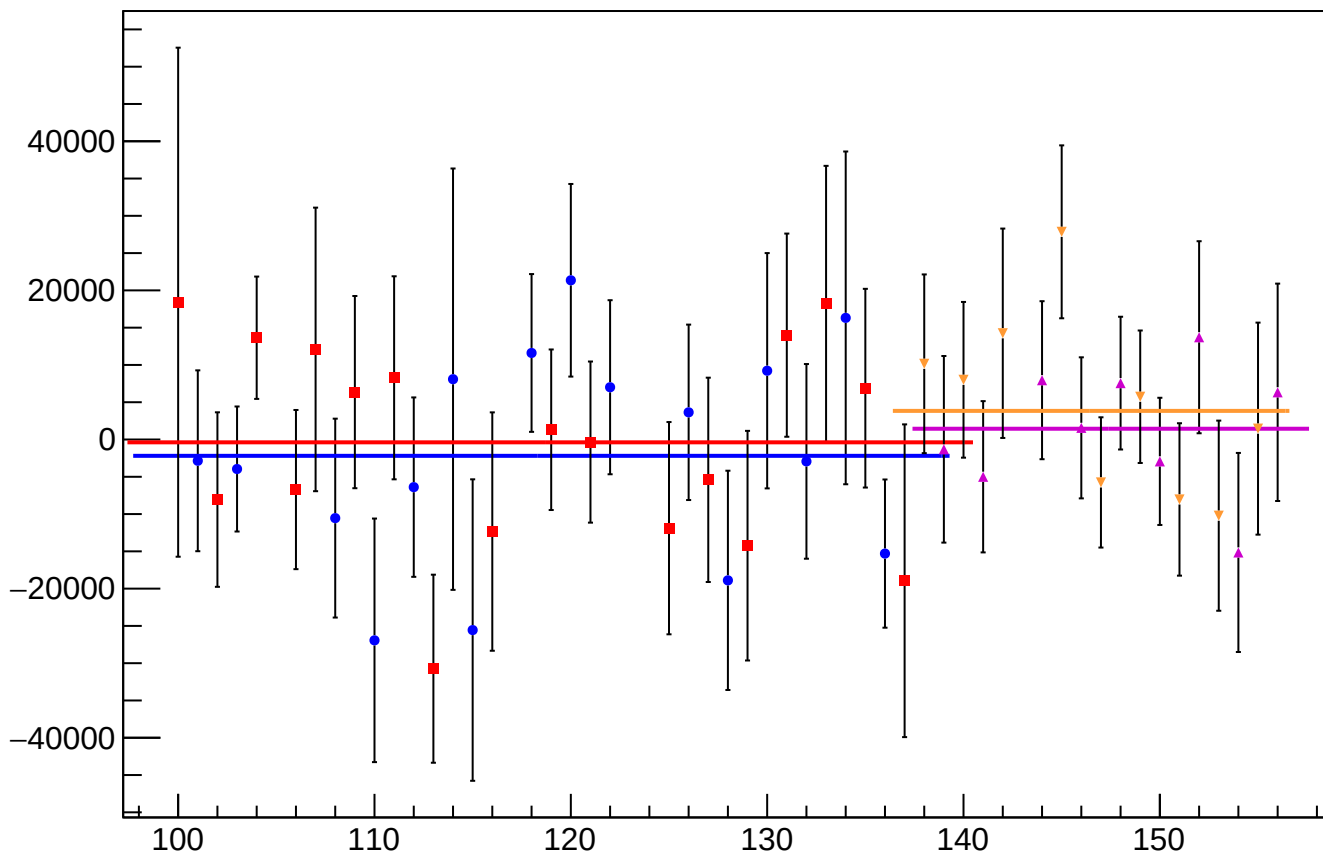
Right: 2157.700+/-0.404 χ^2/NDF : 354138.9/33

In: 2225.385+/-0.407 χ^2/NDF : 241174.6/24

Out: 2213.718+/-0.417 χ^2/NDF : 215830.5/26

All: 2219.686+/-0.291 χ^2/NDF : 457406.4/51

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: 3838.054+/-3649.366 χ^2/NDF : 9.1/8

Right Out: -379.236+/-3099.953 χ^2/NDF : 16.3/17

Left In: 1443.942+/-3560.142 χ^2/NDF : 4.1/8

Left: 2611.374+/-2548.361 χ^2/NDF : 13.5/17

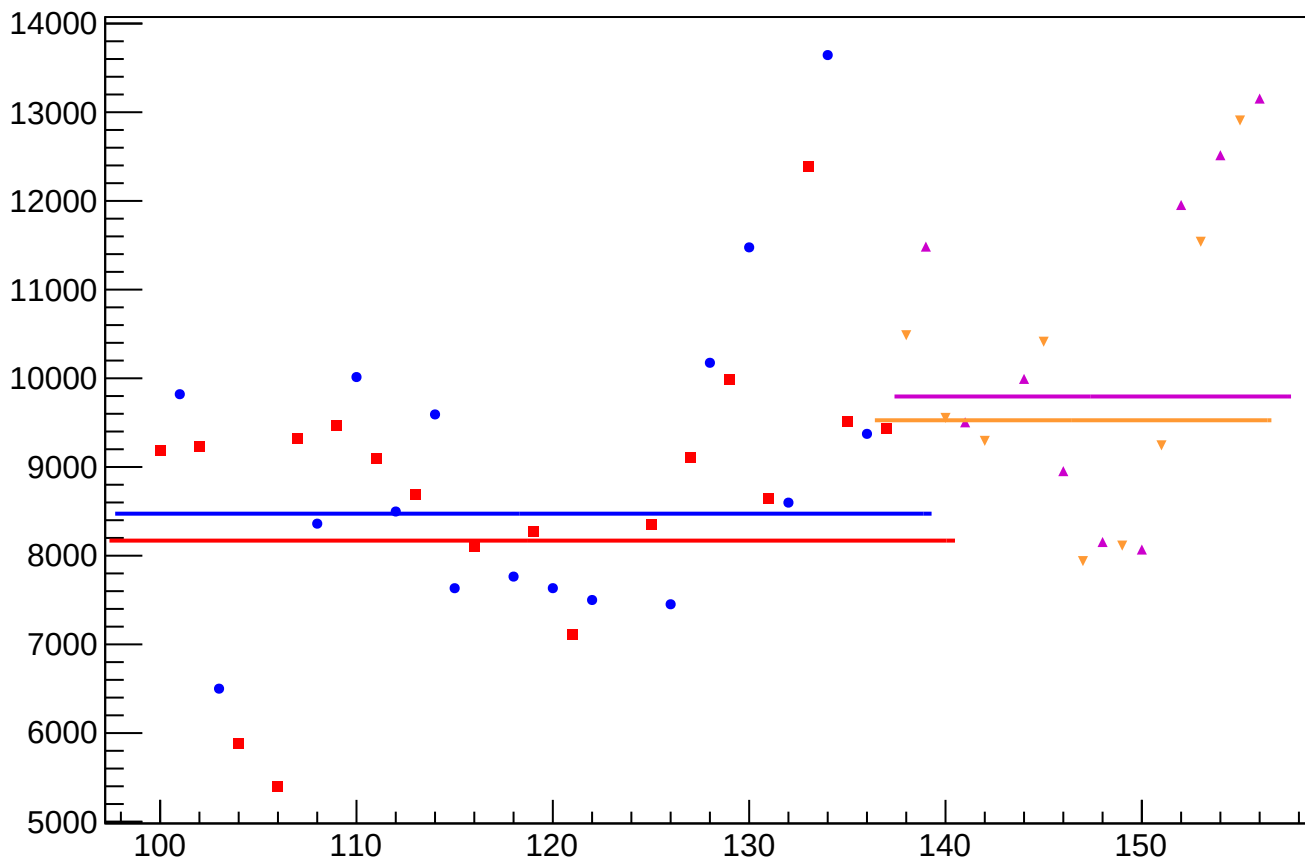
Right: -1253.105+/-2229.393 χ^2/NDF : 30.9/33

In: -560.886+/-2383.413 χ^2/NDF : 19.2/24

Out: 1388.370+/-2362.618 χ^2/NDF : 26.2/26

All: 422.283+/-1677.927 χ^2/NDF : 45.7/51

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 8473.743+/-2.269 χ^2/NDF : 429547.3/15

Left Out: 9526.793+/-2.580 χ^2/NDF : 306140.4/8

Right Out: 8170.027+/-2.192 χ^2/NDF : 539925.8/17

Left In: 9794.970+/-2.517 χ^2/NDF : 449921.5/8

Left: 9664.200+/-1.802 χ^2/NDF : 761595.7/17

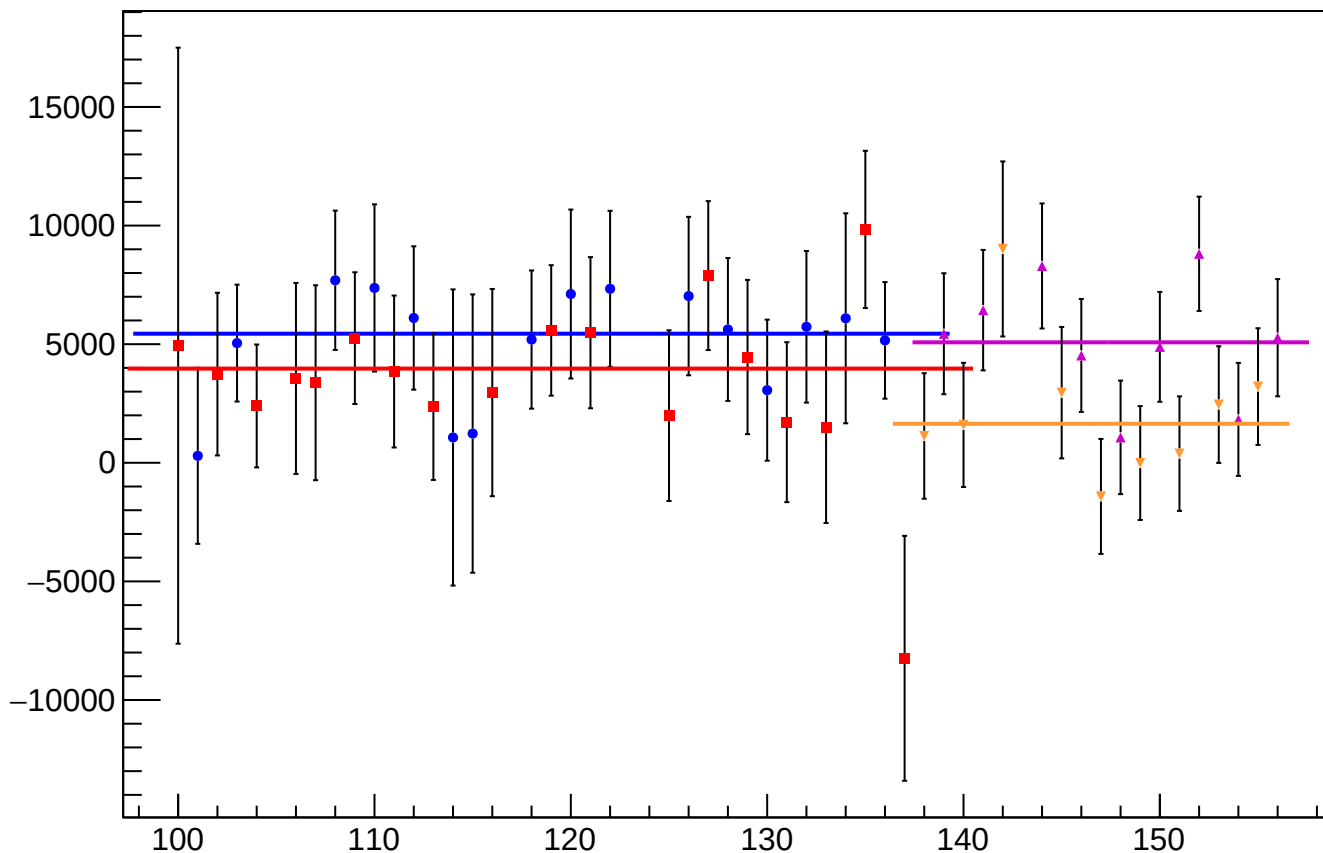
Right: 8316.660+/-1.576 χ^2/NDF : 978741.7/33

In: 9065.906+/-1.685 χ^2/NDF : 1031467.0/24

Out: 8738.693+/-1.671 χ^2/NDF : 1006642.4/26

All: 8900.866+/-1.186 χ^2/NDF : 2057122.5/51

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: 1645.152+/-864.319 χ^2/NDF : 7.1/8

Right Out: 3971.470+/-809.023 χ^2/NDF : 13.0/17

Left In: 5078.730+/-815.818 χ^2/NDF : 8.9/8

Left: 3460.976+/-593.276 χ^2/NDF : 24.4/17

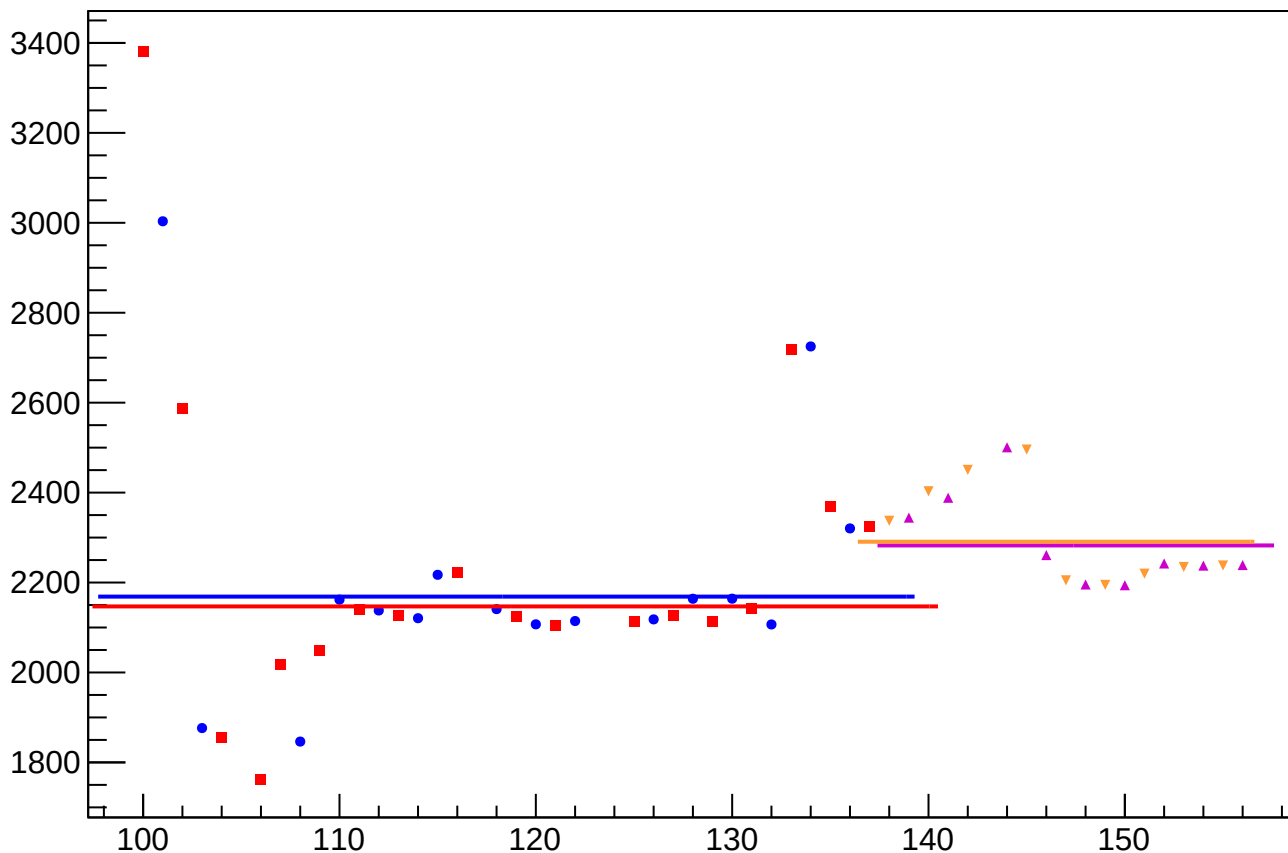
Right: 4703.790+/-573.303 χ^2/NDF : 20.0/33

In: 5261.338+/-575.706 χ^2/NDF : 14.4/24

Out: 2885.100+/-590.647 χ^2/NDF : 23.9/26

All: 4103.655+/-412.267 χ^2/NDF : 46.6/51

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715+/-0.575 χ^2/NDF : 195659.8/15

Left Out: 2290.760+/-0.611 χ^2/NDF : 28405.5/8

Right Out: 2146.888+/-0.569 χ^2/NDF : 157750.7/17

Left In: 2282.514+/-0.577 χ^2/NDF : 25978.6/8

Left: 2286.399+/-0.420 χ^2/NDF : 54480.3/17

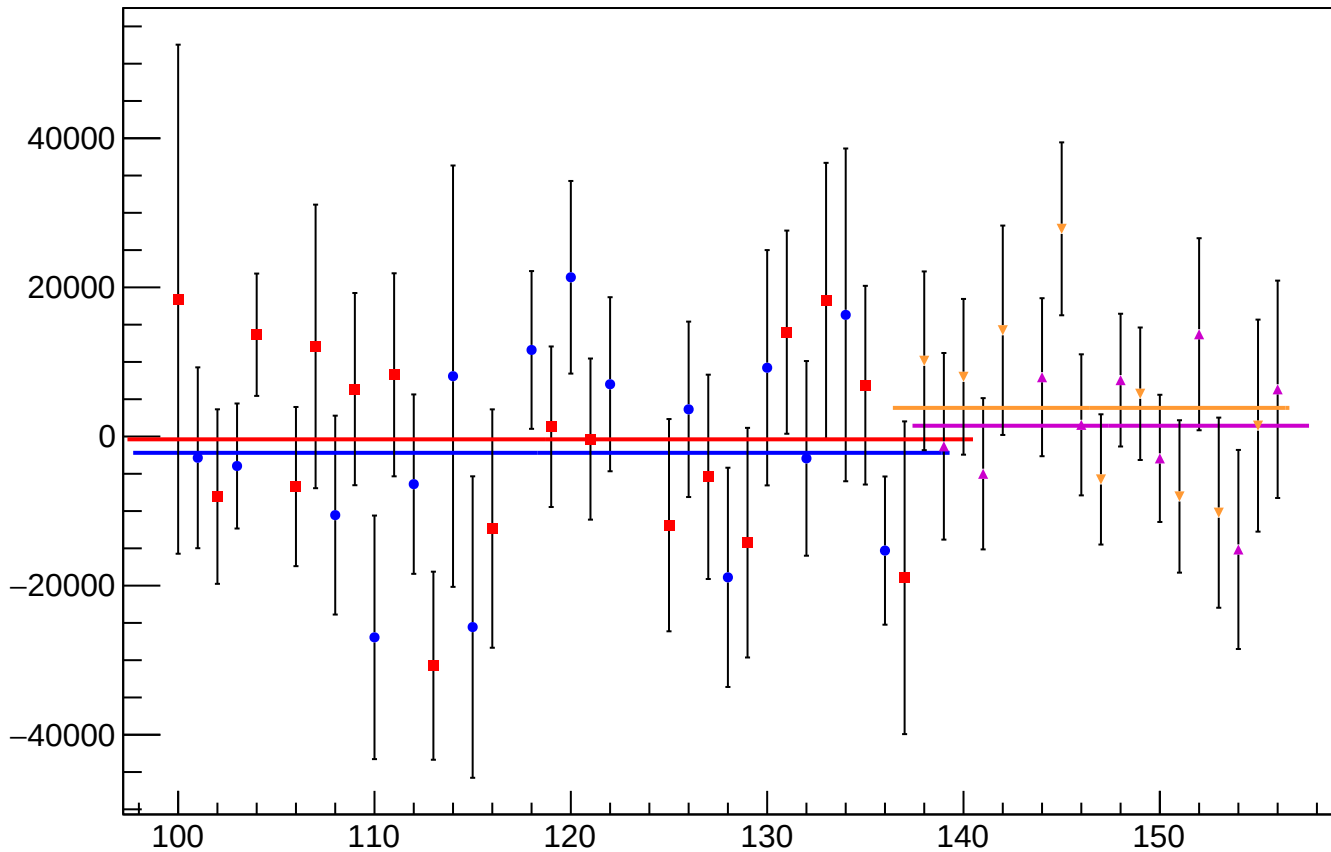
Right: 2157.700+/-0.404 χ^2/NDF : 354138.9/33

In: 2225.385+/-0.407 χ^2/NDF : 241174.6/24

Out: 2213.718+/-0.417 χ^2/NDF : 215830.5/26

All: 2219.686+/-0.291 χ^2/NDF : 457406.4/51

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: 3838.054+/-3649.366 χ^2/NDF : 9.1/8

Right Out: -379.236+/-3099.953 χ^2/NDF : 16.3/17

Left In: 1443.942+/-3560.142 χ^2/NDF : 4.1/8

Left: 2611.374+/-2548.361 χ^2/NDF : 13.5/17

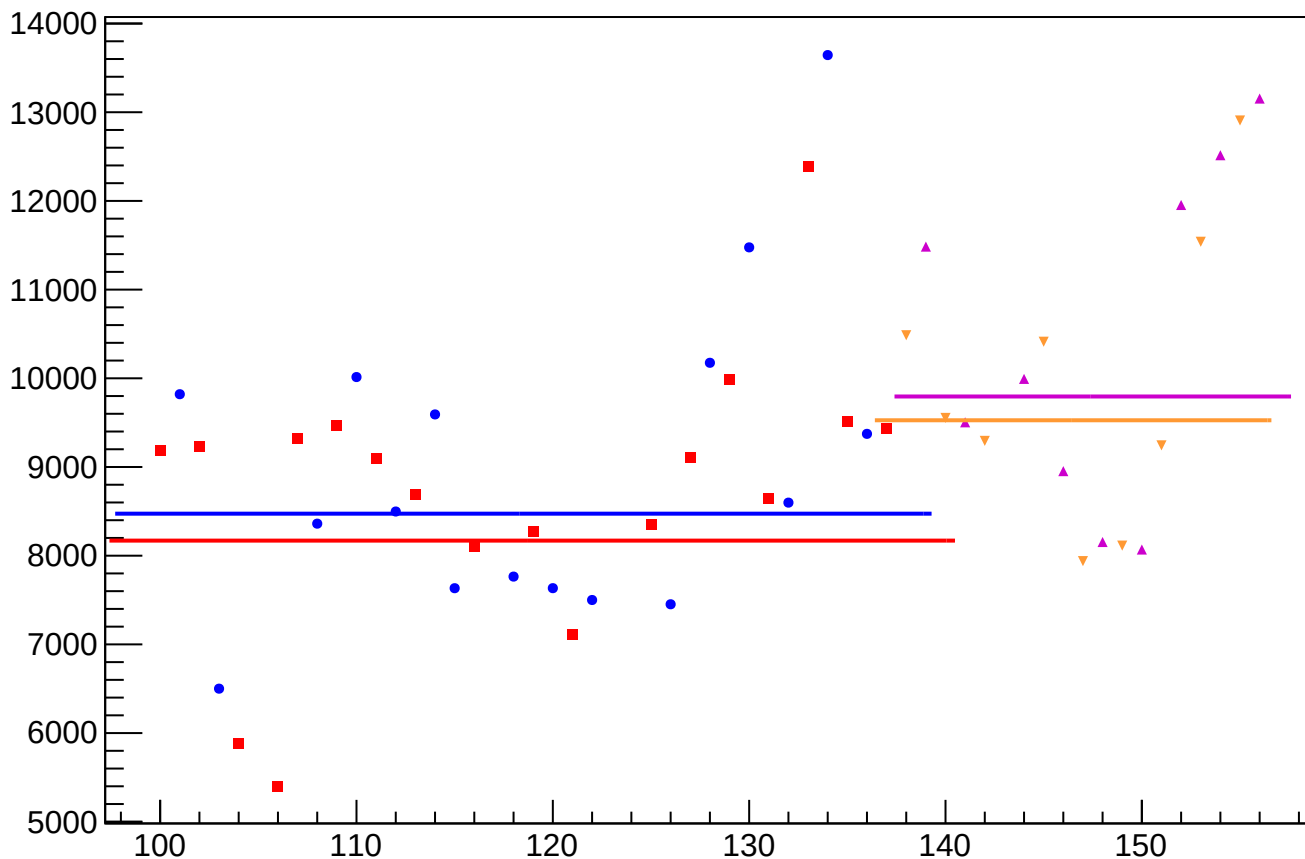
Right: -1253.105+/-2229.393 χ^2/NDF : 30.9/33

In: -560.886+/-2383.413 χ^2/NDF : 19.2/24

Out: 1388.370+/-2362.618 χ^2/NDF : 26.2/26

All: 422.283+/-1677.927 χ^2/NDF : 45.7/51

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: 9526.793+/-2.580 χ^2/NDF : 306140.4/8

Right Out: 8170.027+/-2.192 χ^2/NDF : 539925.8/17

Left In: 9794.970+/-2.517 χ^2/NDF : 449921.5/8

Left: 9664.200+/-1.802 χ^2/NDF : 761595.7/17

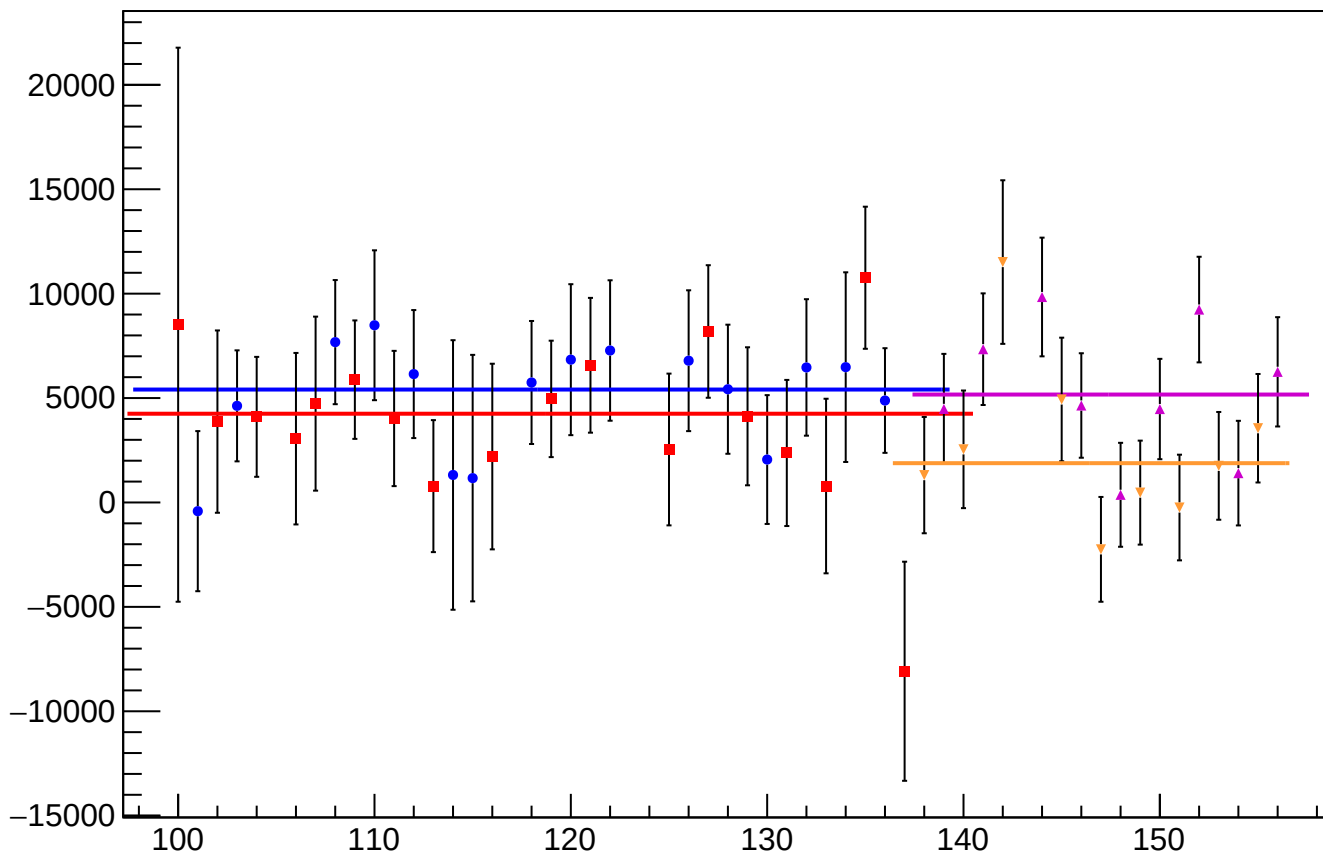
Right: 8316.660+/-1.576 χ^2/NDF : 978741.7/33

In: 9065.906+/-1.685 χ^2/NDF : 1031467.0/24

Out: 8738.693+/-1.671 χ^2/NDF : 1006642.4/26

All: 8900.866+/-1.186 χ^2/NDF : 2057122.5/51

dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.867 ± 833.689 $\chi^2/\text{NDF}: 6.7/15$

Left Out: 1881.606 ± 909.506 $\chi^2/\text{NDF}: 11.4/8$

Right Out: 4249.899 ± 839.336 $\chi^2/\text{NDF}: 14.5/17$

Left In: 5168.207 ± 856.317 $\chi^2/\text{NDF}: 12.3/8$

Left: 3623.814 ± 623.463 $\chi^2/\text{NDF}: 30.6/17$

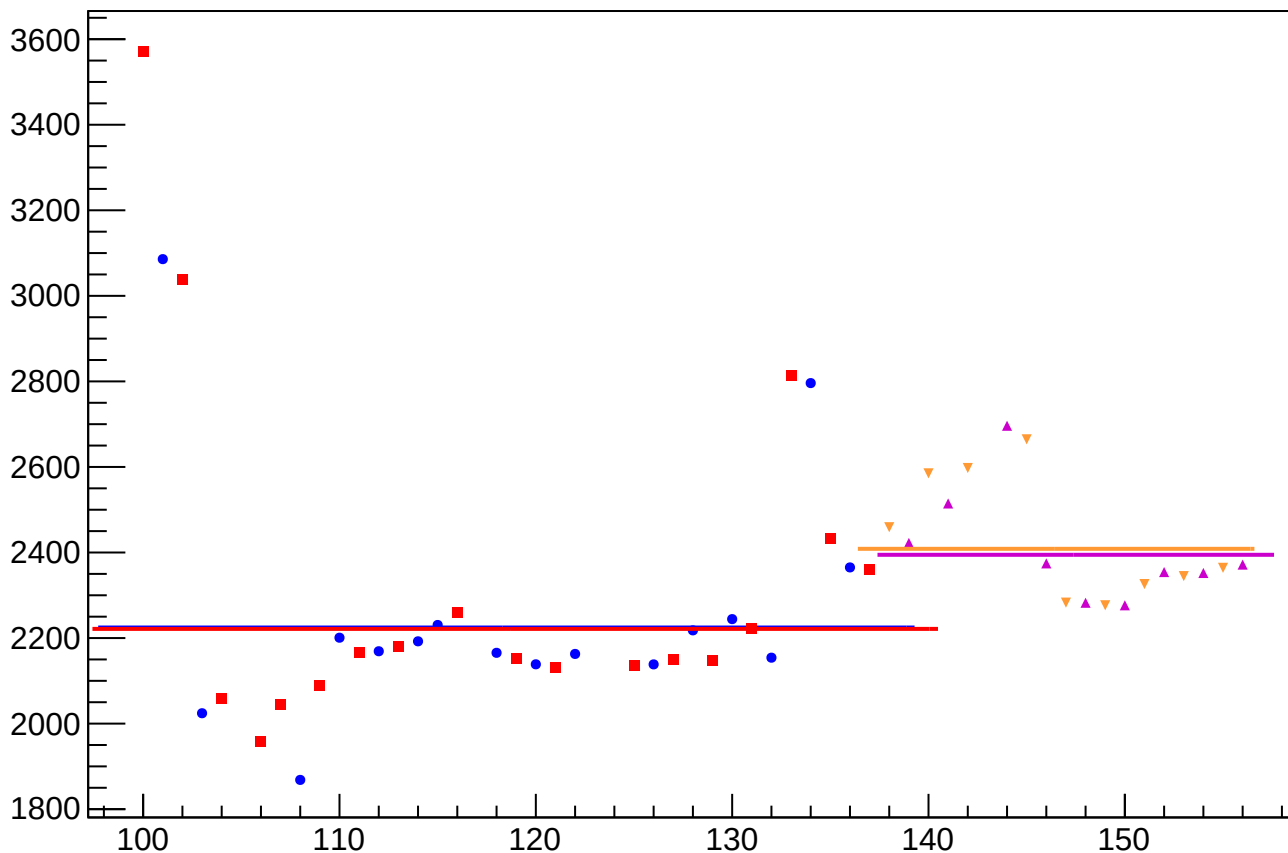
Right: 4832.791 ± 591.493 $\chi^2/\text{NDF}: 22.2/33$

In: 5291.246 ± 597.347 $\chi^2/\text{NDF}: 19.1/24$

Out: 3160.624 ± 616.817 $\chi^2/\text{NDF}: 29.5/26$

All: 4260.093 ± 429.106 $\chi^2/\text{NDF}: 54.7/51$

dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2224.614+/-0.590 χ^2/NDF : 184679.8/15

Left Out: 2408.616+/-0.643 χ^2/NDF : 42690.9/8

Right Out: 2221.425+/-0.593 χ^2/NDF : 169944.3/17

Left In: 2394.633+/-0.606 χ^2/NDF : 37041.4/8

Left: 2401.204+/-0.441 χ^2/NDF : 79982.9/17

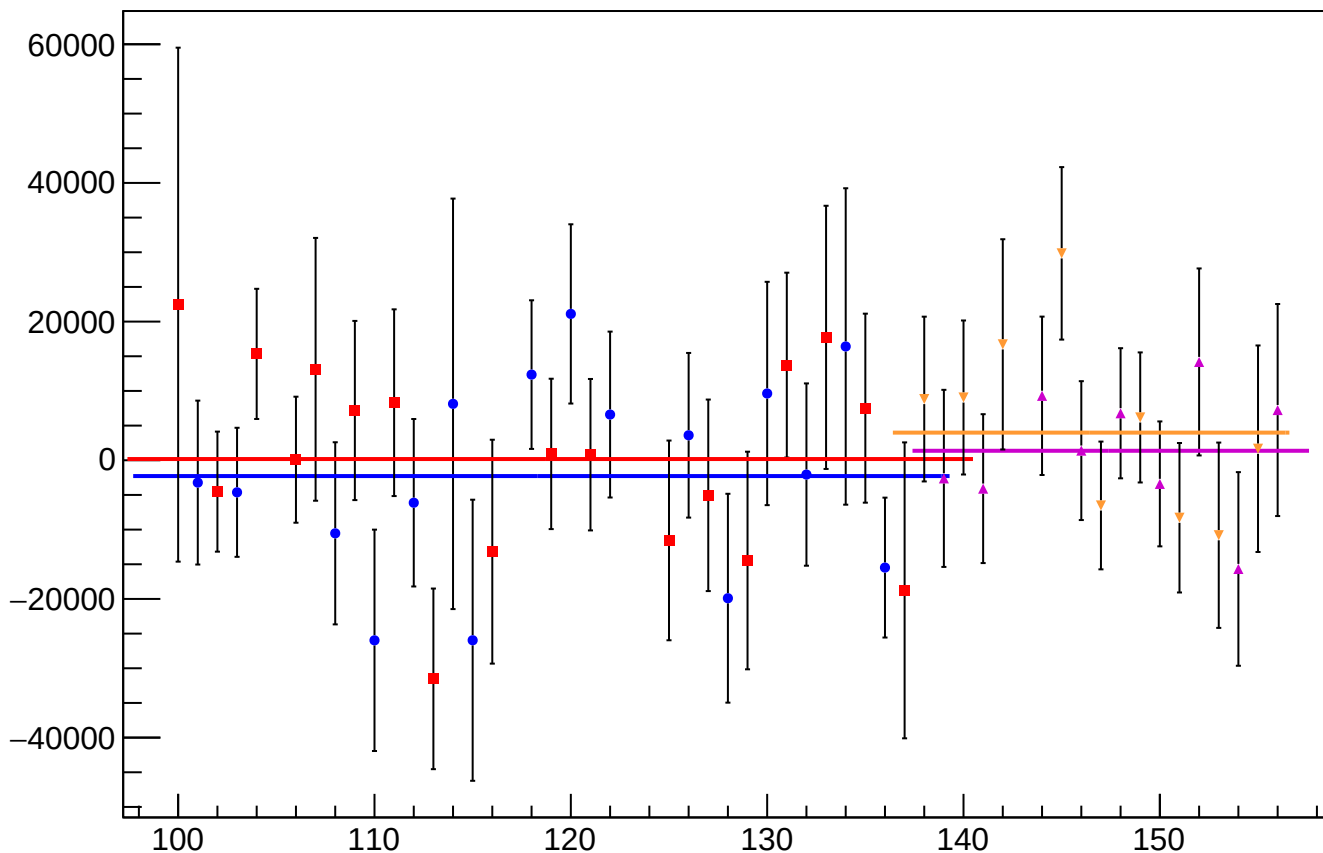
Right: 2223.029+/-0.418 χ^2/NDF : 354638.7/33

In: 2307.347+/-0.422 χ^2/NDF : 262197.8/24

Out: 2307.464+/-0.436 χ^2/NDF : 258415.0/26

All: 2307.404+/-0.303 χ^2/NDF : 520612.8/51

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -2278.440 ± 3271.750 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 3987.051 ± 3838.729 $\chi^2/\text{NDF}: 9.3/8$

Right Out: 177.024 ± 3035.355 $\chi^2/\text{NDF}: 15.6/17$

Left In: 1368.550 ± 3752.293 $\chi^2/\text{NDF}: 4.0/8$

Left: 2647.989 ± 2683.310 $\chi^2/\text{NDF}: 13.5/17$

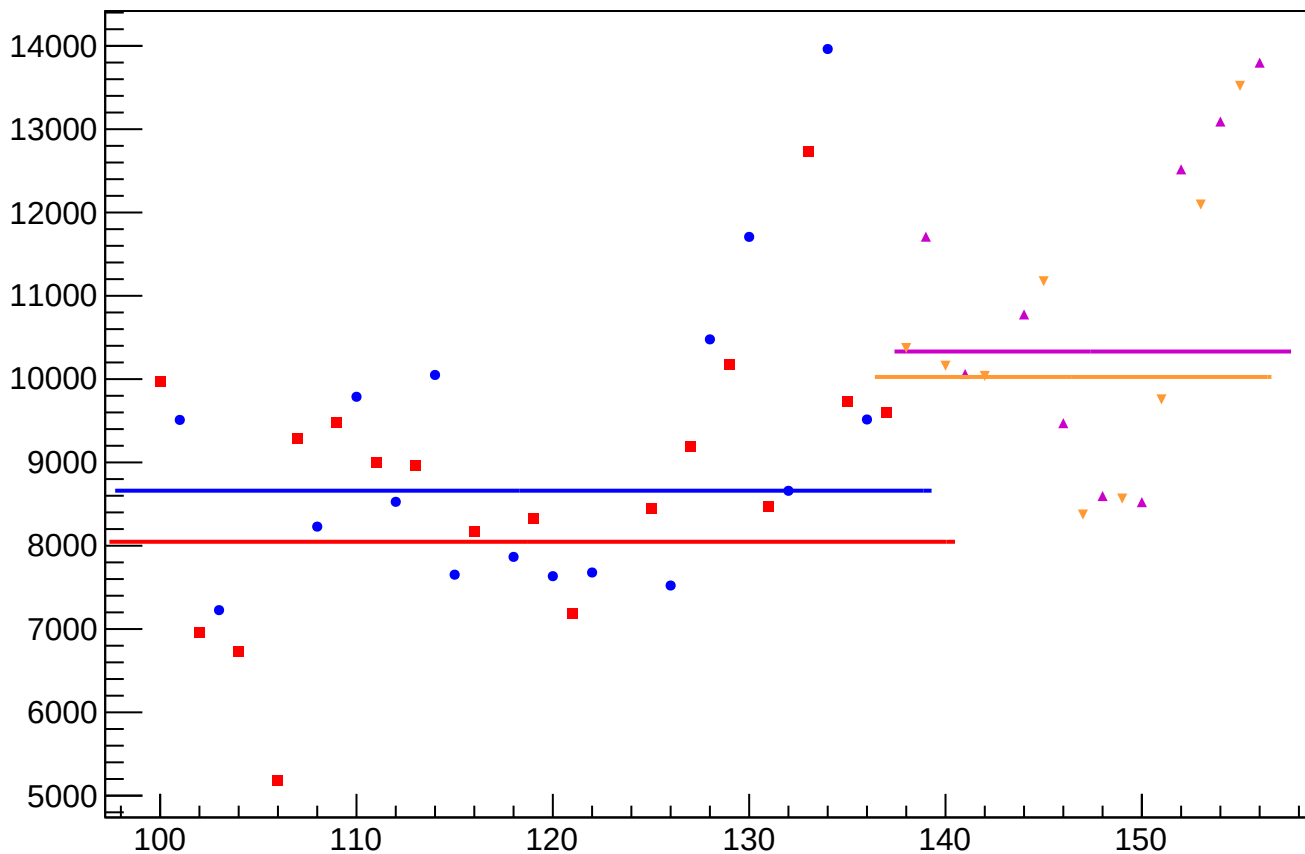
Right: -958.805 ± 2225.203 $\chi^2/\text{NDF}: 30.4/33$

In: -703.288 ± 2465.987 $\chi^2/\text{NDF}: 19.0/24$

Out: 1642.760 ± 2380.955 $\chi^2/\text{NDF}: 25.6/26$

All: 510.880 ± 1712.862 $\chi^2/\text{NDF}: 45.0/51$

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.733 $\pm$ 2.313 χ^2 /NDF: 357961.9/15

Left Out: 10025.930 $\pm$ 2.714 χ^2 /NDF: 291085.9/8

Right Out: 8047.460 $\pm$ 2.146 χ^2 /NDF: 558559.6/17

Left In: 10331.301 $\pm$ 2.653 χ^2 /NDF: 424868.2/8

Left: 10182.092 $\pm$ 1.897 χ^2 /NDF: 722426.4/17

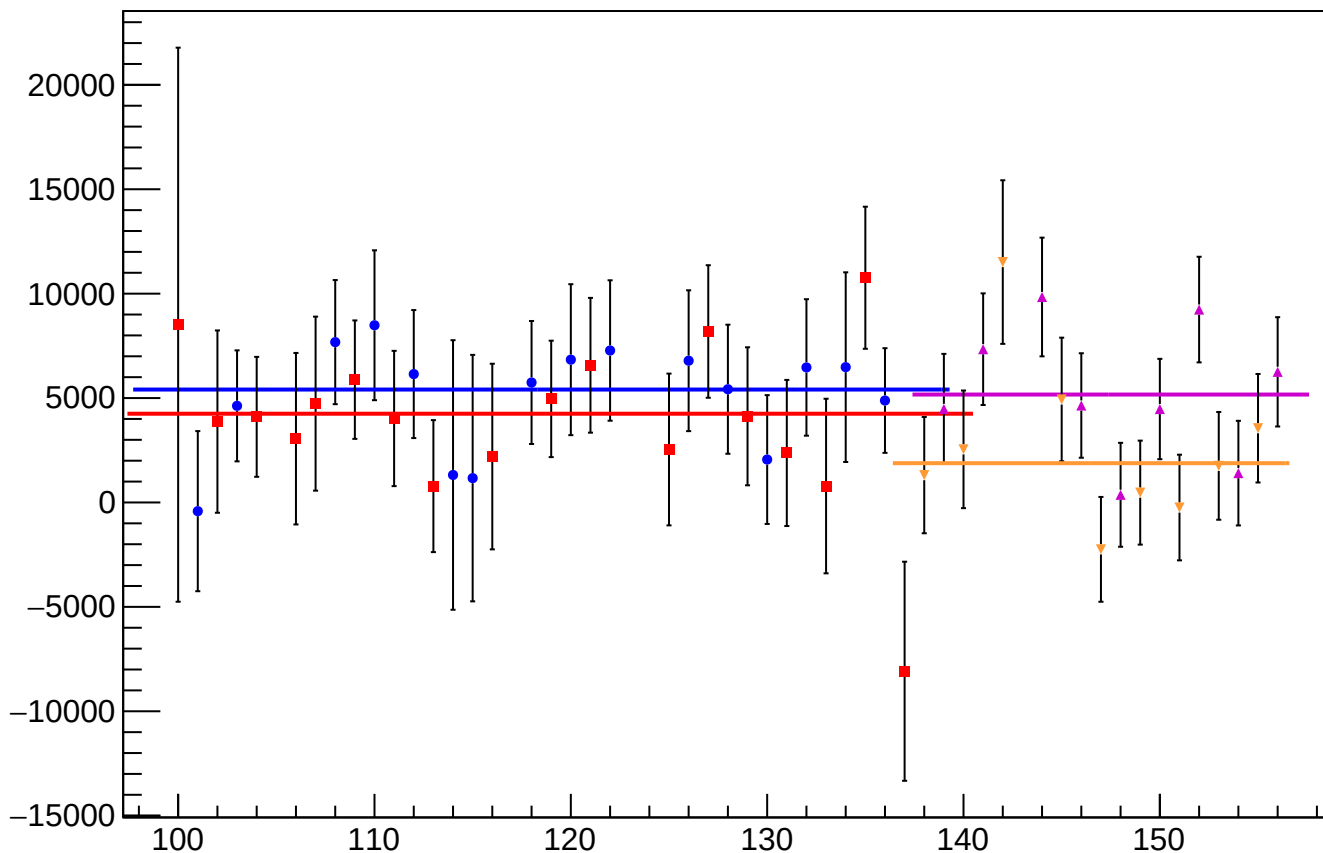
Right: 8331.143 $\pm$ 1.573 χ^2 /NDF: 954287.2/33

In: 9382.259 $\pm$ 1.744 χ^2 /NDF: 1008039.4/24

Out: 8808.587 $\pm$ 1.684 χ^2 /NDF: 1176532.3/26

All: 9085.362 $\pm$ 1.211 χ^2 /NDF: 2240588.4/51

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.869+/-833.688 χ^2/NDF : 6.7/15

Left Out: 1881.602+/-909.507 χ^2/NDF : 11.4/8

Right Out: 4249.903+/-839.335 χ^2/NDF : 14.5/17

Left In: 5168.204+/-856.318 χ^2/NDF : 12.3/8

Left: 3623.810+/-623.464 χ^2/NDF : 30.6/17

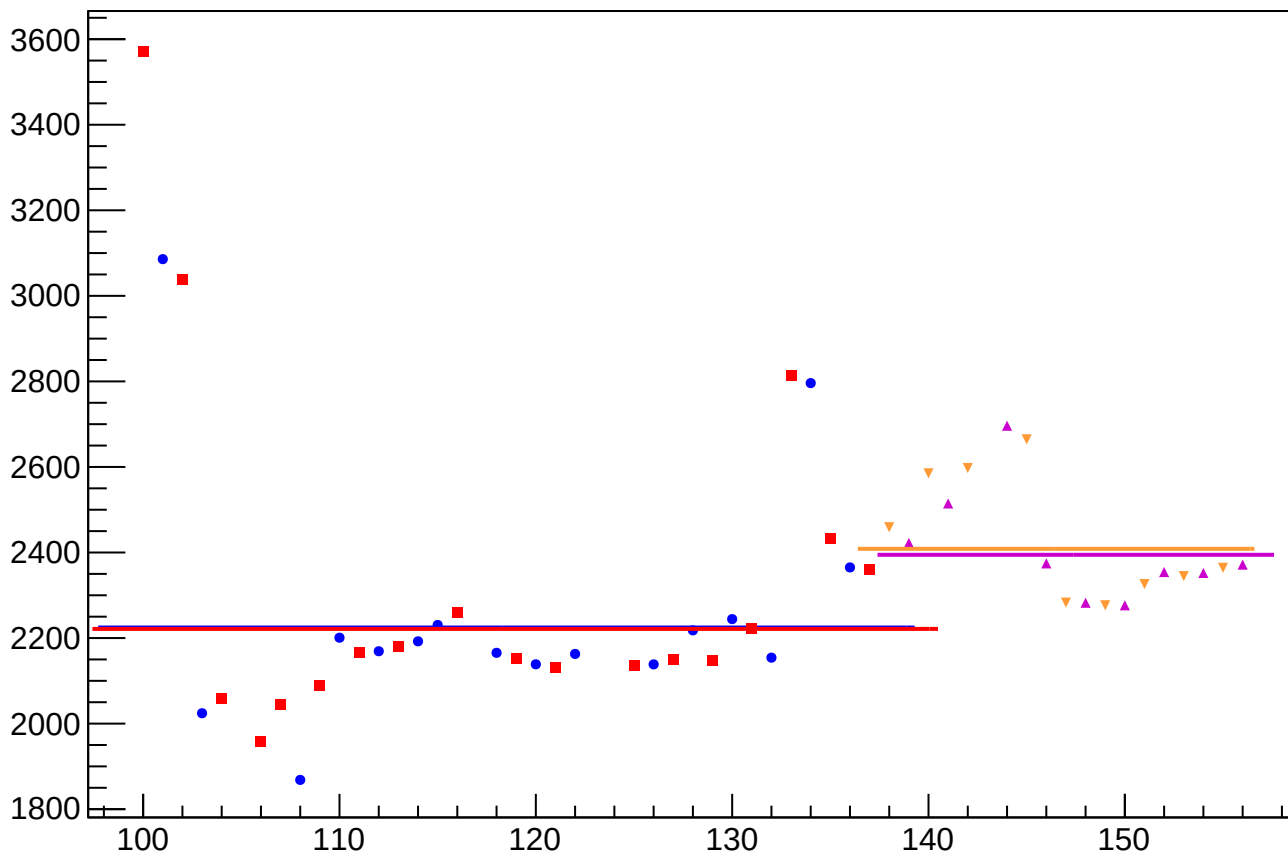
Right: 4832.794+/-591.493 χ^2/NDF : 22.2/33

In: 5291.245+/-597.347 χ^2/NDF : 19.1/24

Out: 3160.627+/-616.817 χ^2/NDF : 29.5/26

All: 4260.094+/-429.106 χ^2/NDF : 54.7/51

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: 2408.618+/-0.643 χ^2/NDF : 42691.4/8

Right Out: 2221.425+/-0.593 χ^2/NDF : 169944.3/17

Left In: 2394.636+/-0.606 χ^2/NDF : 37041.7/8

Left: 2401.207+/-0.441 χ^2/NDF : 79983.7/17

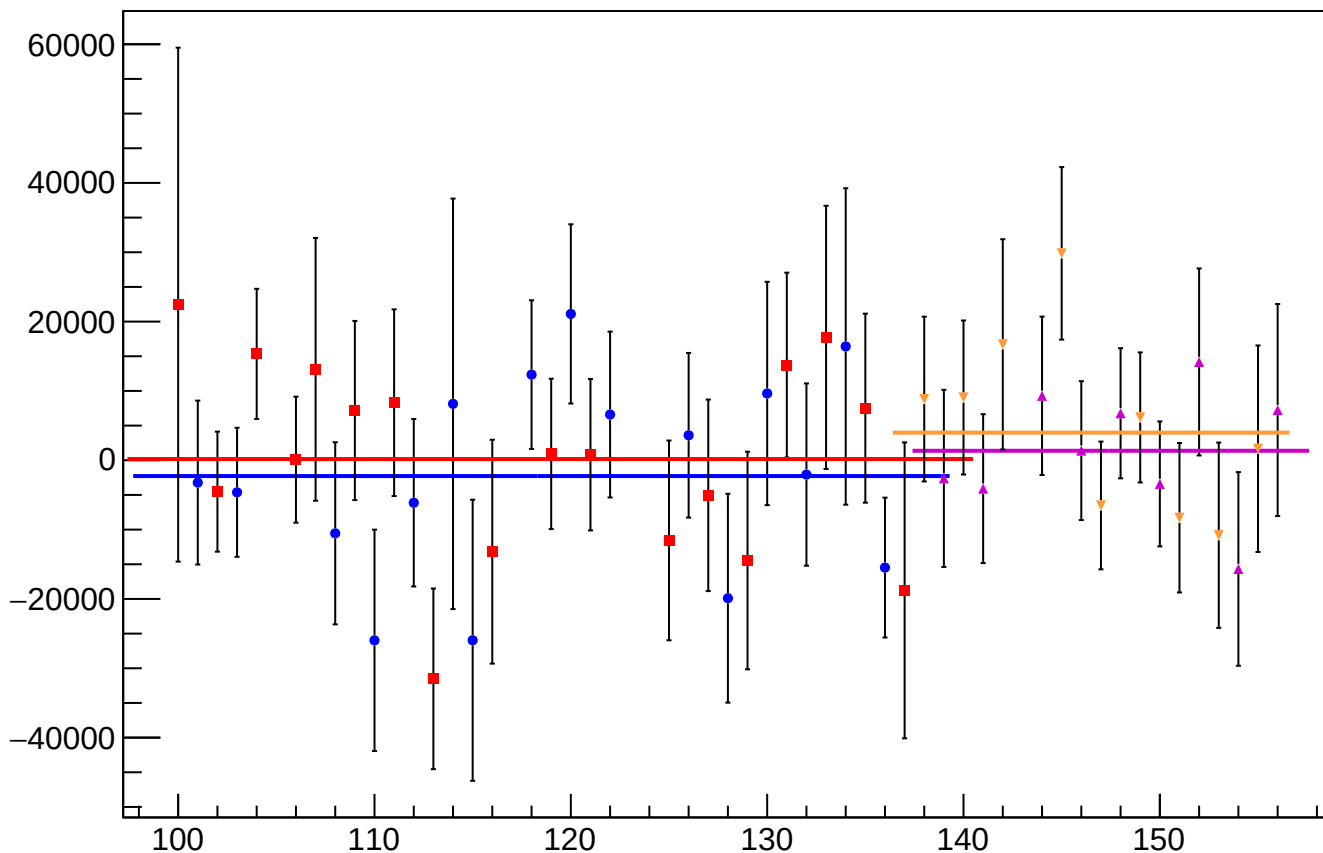
Right: 2223.029+/-0.418 χ^2/NDF : 354639.0/33

In: 2307.348+/-0.422 χ^2/NDF : 262200.0/24

Out: 2307.465+/-0.436 χ^2/NDF : 258417.2/26

All: 2307.405+/-0.303 χ^2/NDF : 520617.2/51

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: 3987.045 $\pm$ 3838.734 χ^2 /NDF:9.3/8

Right Out: 177.029 $\pm$ 3035.348 χ^2 /NDF: 15.6/17

Left In: 1368.547 $\pm$ 3752.298 χ^2 /NDF:4.0/8

Left: 2647.984 $\pm$ 2683.313 χ^2 /NDF: 13.5/17

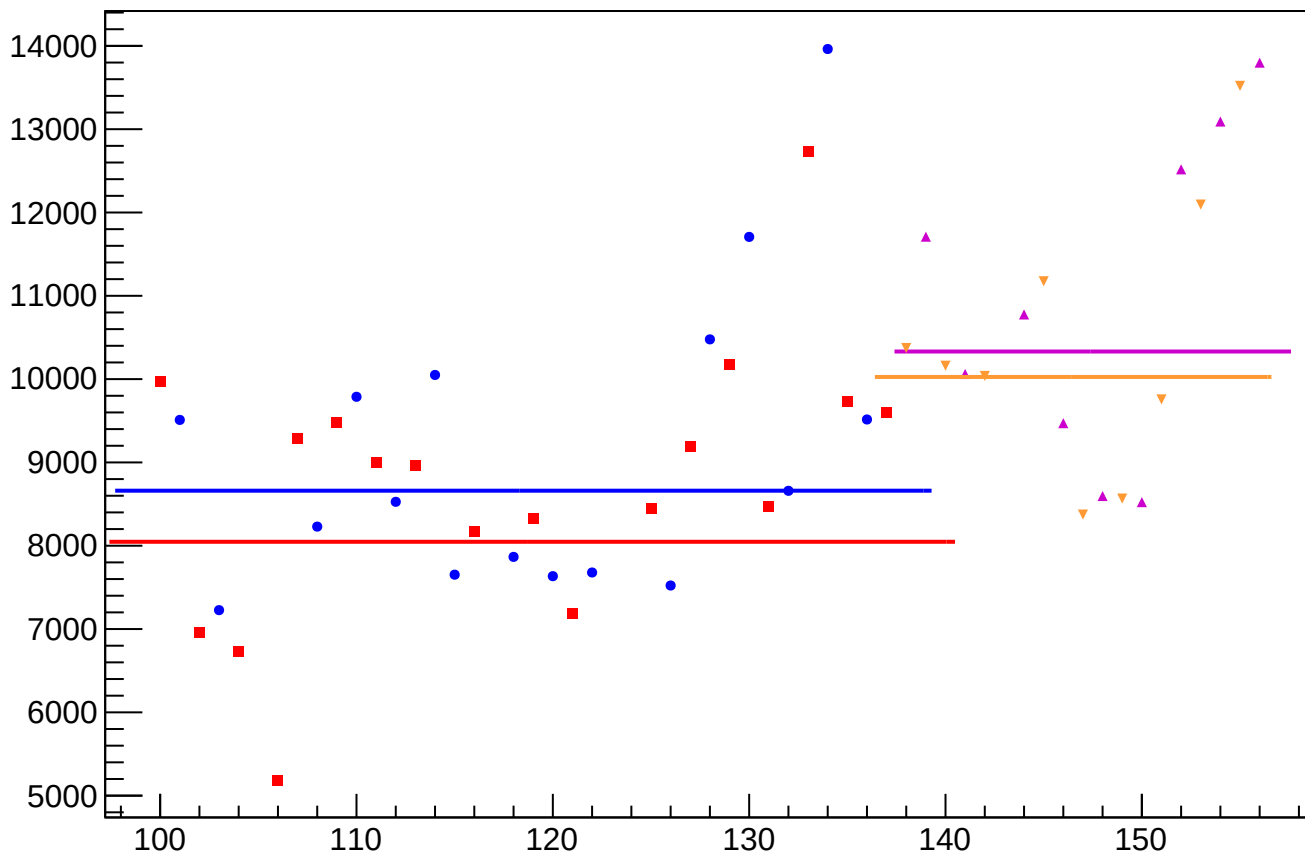
Right: -958.792 $\pm$ 2225.198 χ^2 /NDF: 30.4/33

In: -703.283 $\pm$ 2465.985 χ^2 /NDF:19.0/24

Out: 1642.754 $\pm$ 2380.953 χ^2 /NDF:25.6/26

All: 510.880 $\pm$ 1712.860 χ^2 /NDF: 45.0/51

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.711 $\pm$ 2.313 χ^2/NDF : 357964.1/15

Left Out: 10025.943 $\pm$ 2.714 χ^2/NDF : 291087.0/8

Right Out: 8047.442 $\pm$ 2.146 χ^2/NDF : 558557.8/17

Left In: 10331.315 $\pm$ 2.653 χ^2/NDF : 424868.8/8

Left: 10182.105 $\pm$ 1.897 χ^2/NDF : 722428.1/17

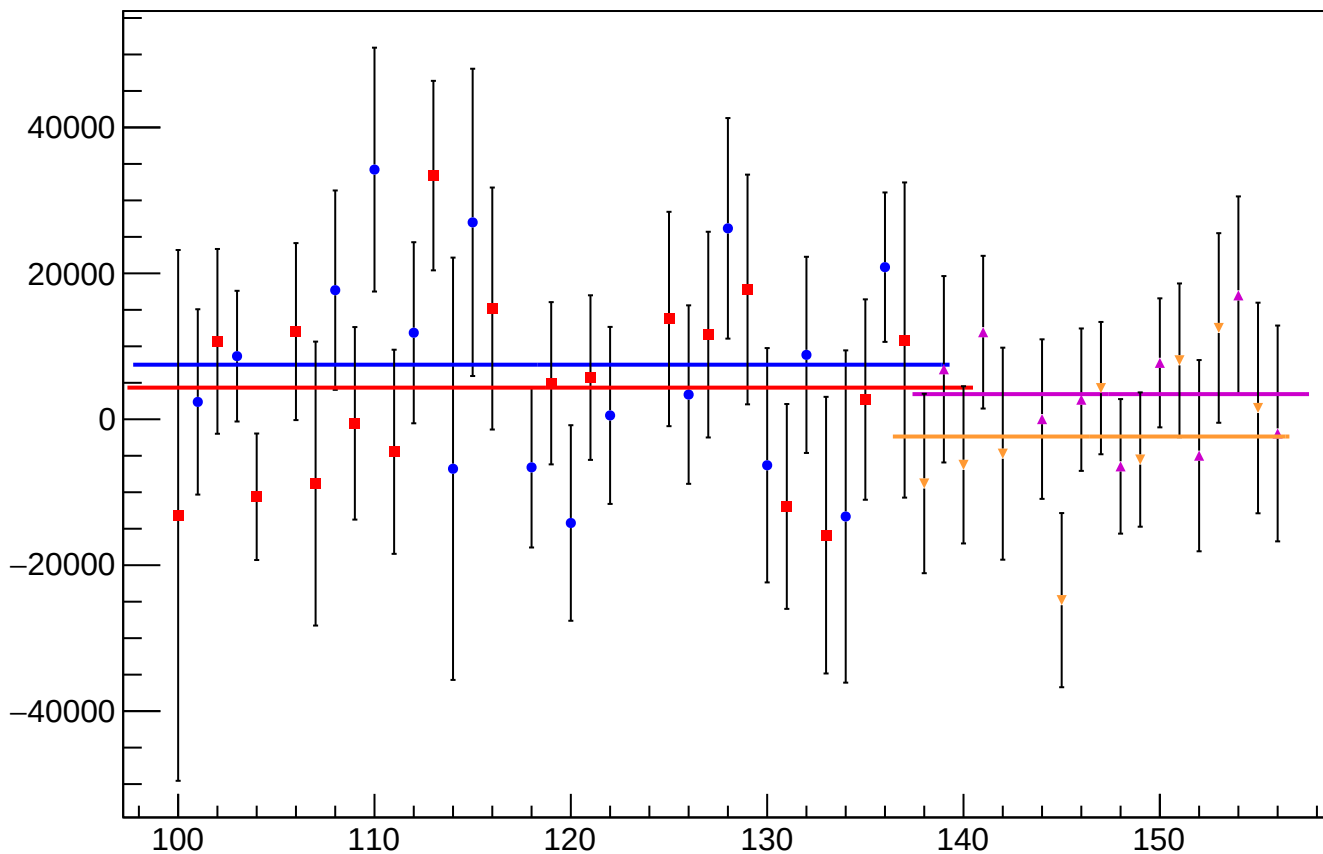
Right: 8331.123 $\pm$ 1.573 χ^2/NDF : 954287.4/33

In: 9382.250 $\pm$ 1.744 χ^2/NDF : 1008051.7/24

Out: 8808.577 $\pm$ 1.684 χ^2/NDF : 1176542.0/26

All: 9085.353 $\pm$ 1.211 χ^2/NDF : 2240610.5/51

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: -2363.450+/-3761.235 χ^2/NDF : 7.0/8

Right Out: 4338.165+/-3242.620 χ^2/NDF : 14.3/17

Left In: 3448.539+/-3663.726 χ^2/NDF : 3.8/8

Left: 618.858+/-2624.441 χ^2/NDF : 12.0/17

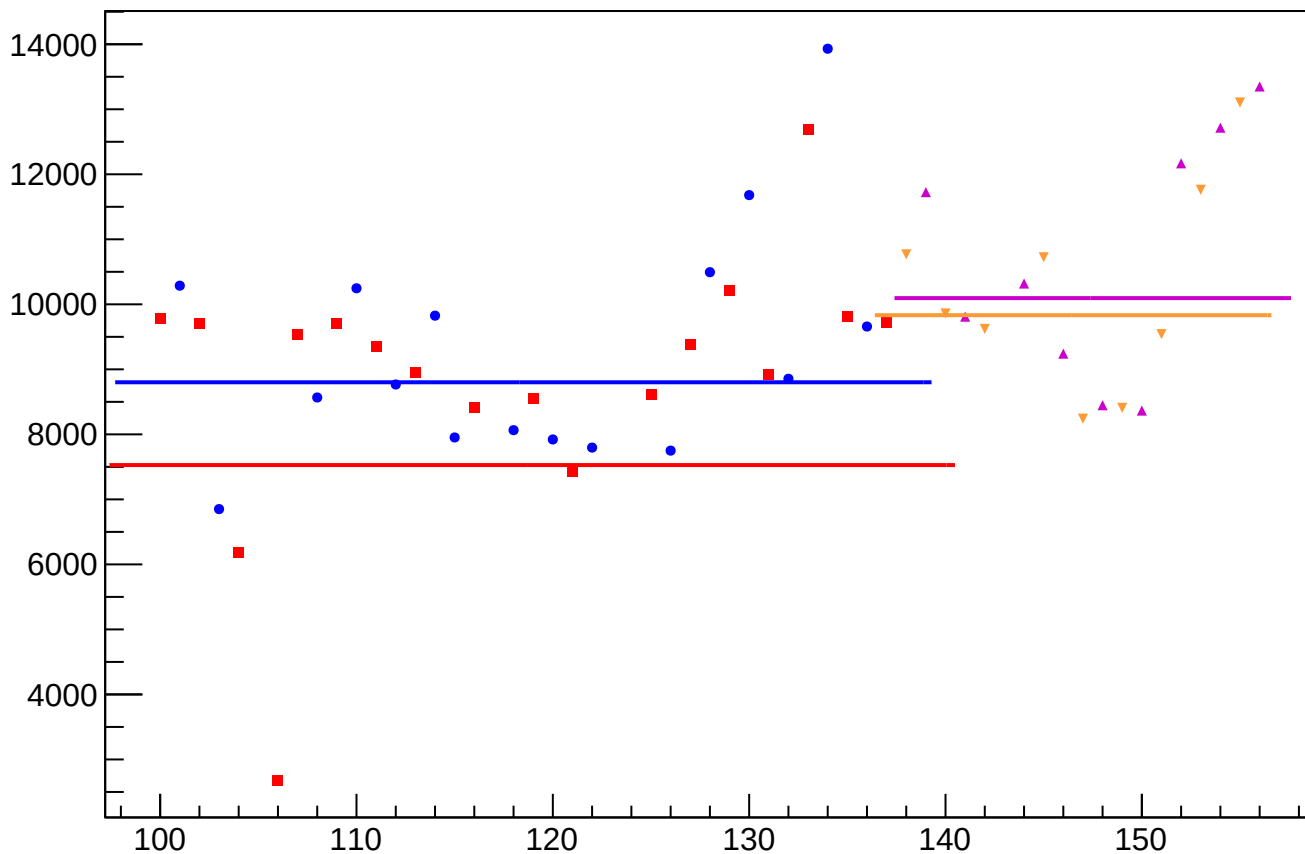
Right: 5867.751+/-2323.467 χ^2/NDF : 28.8/33

In: 5656.626+/-2464.592 χ^2/NDF : 18.5/24

Out: 1480.886+/-2455.936 χ^2/NDF : 23.1/26

All: 3561.410+/-1739.661 χ^2/NDF : 43.0/51

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: 9832.818+/-2.660 χ^2/NDF : 281014.0/8

Right Out: 7527.803+/-2.128 χ^2/NDF : 1657299.8/17

Left In: 10095.457+/-2.591 χ^2/NDF : 412162.1/8

Left: 9967.586+/-1.856 χ^2/NDF : 698180.1/17

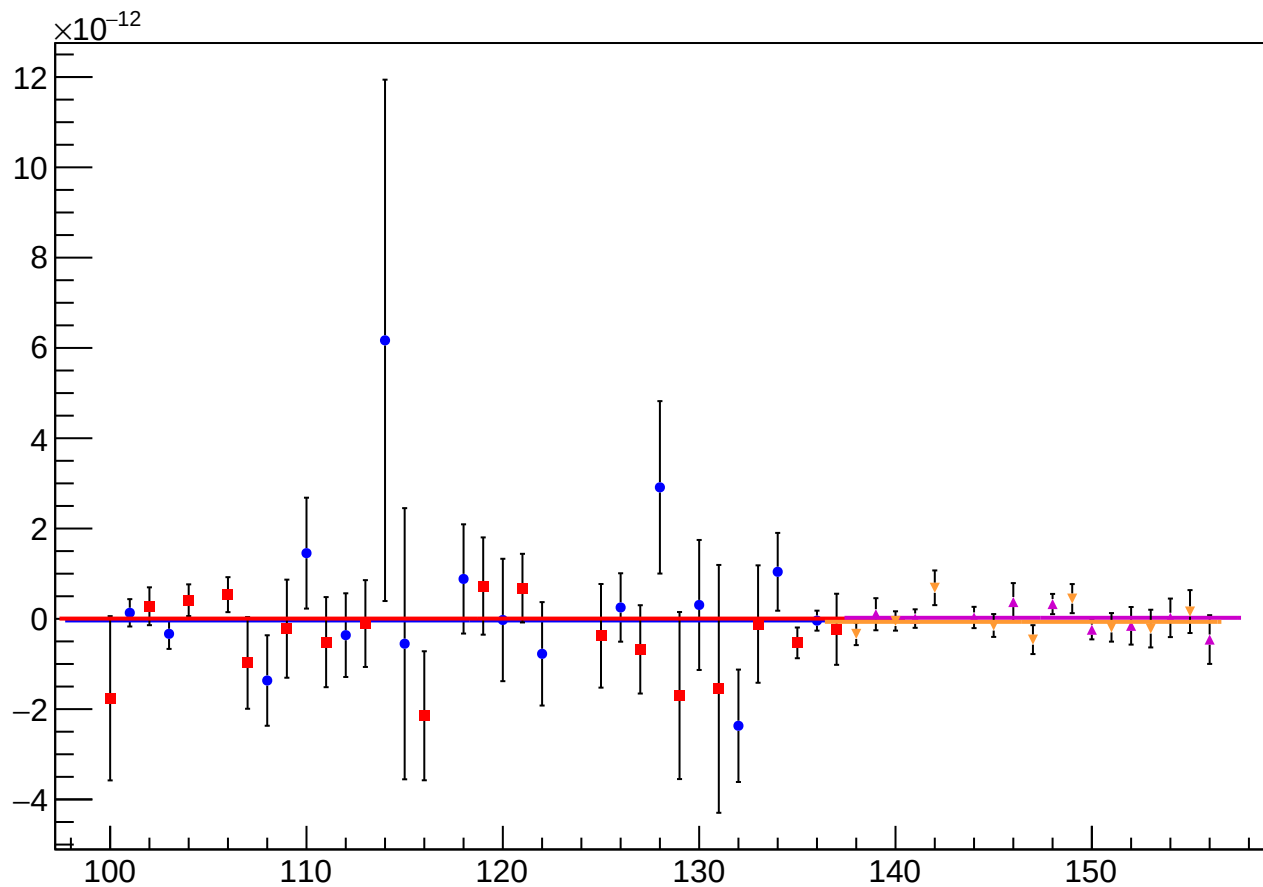
Right: 8100.150+/-1.579 χ^2/NDF : 2212756.1/33

In: 9386.810+/-1.743 χ^2/NDF : 943408.4/24

Out: 8427.655+/-1.662 χ^2/NDF : 2396212.7/26

All: 8884.432+/-1.203 χ^2/NDF : 3498280.1/51

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 : 9.7/8

Right Out: 0.000 ± 0.000 χ^2/NDF : 13.7/17

Left In: 0.000 ± 0.000 χ^2/NDF : 5.1/8

Left: -0.000 ± 0.000 χ^2/NDF : 15.2/17

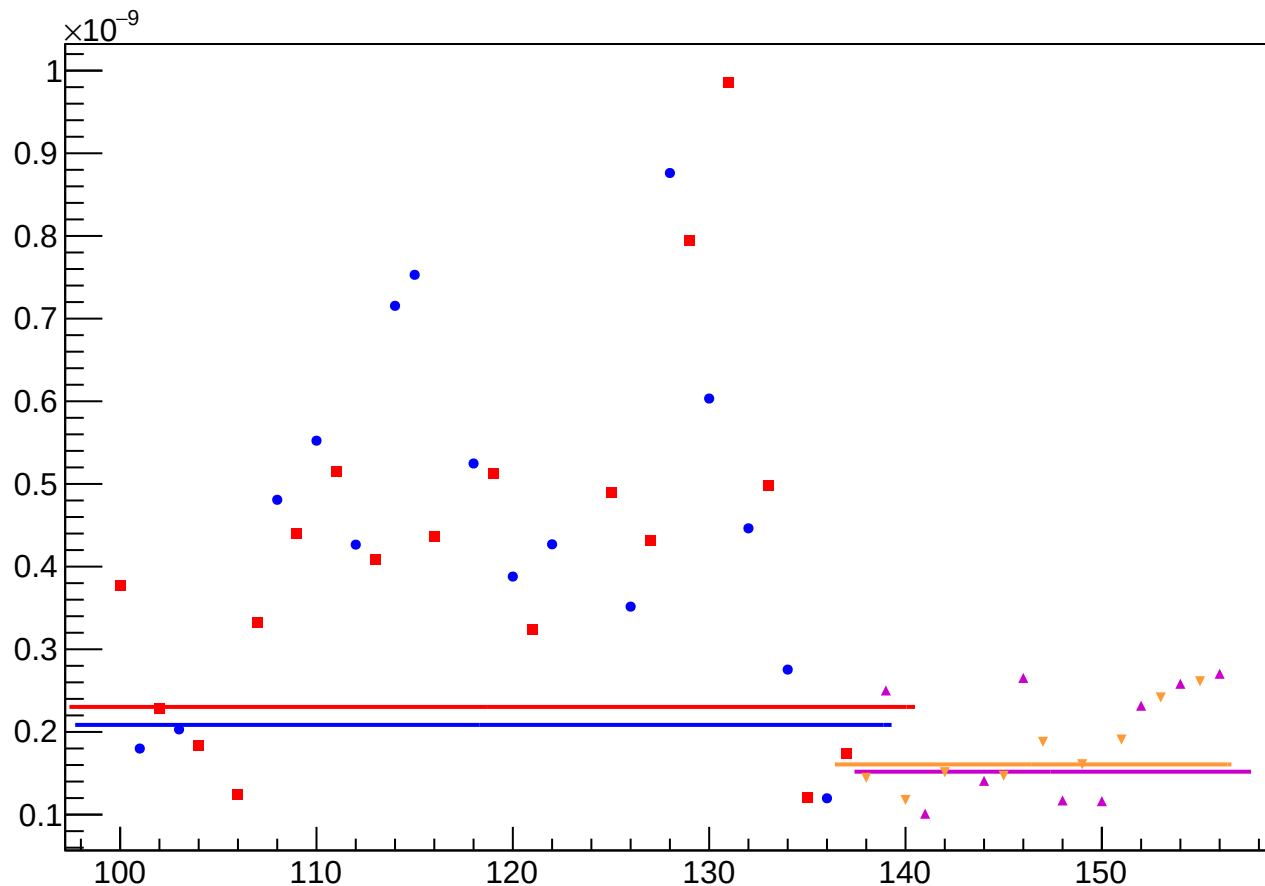
Right: -0.000 ± 0.000 χ^2/NDF : 28.1/33

In: 0.000 ± 0.000 χ^2/NDF : 19.5/24

Out: -0.000 ± 0.000 χ^2/NDF : 23.6/26

All: -0.000 ± 0.000 χ^2/NDF : 43.2/51

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 : 293837.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1561654.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 823869.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1125864.9/17

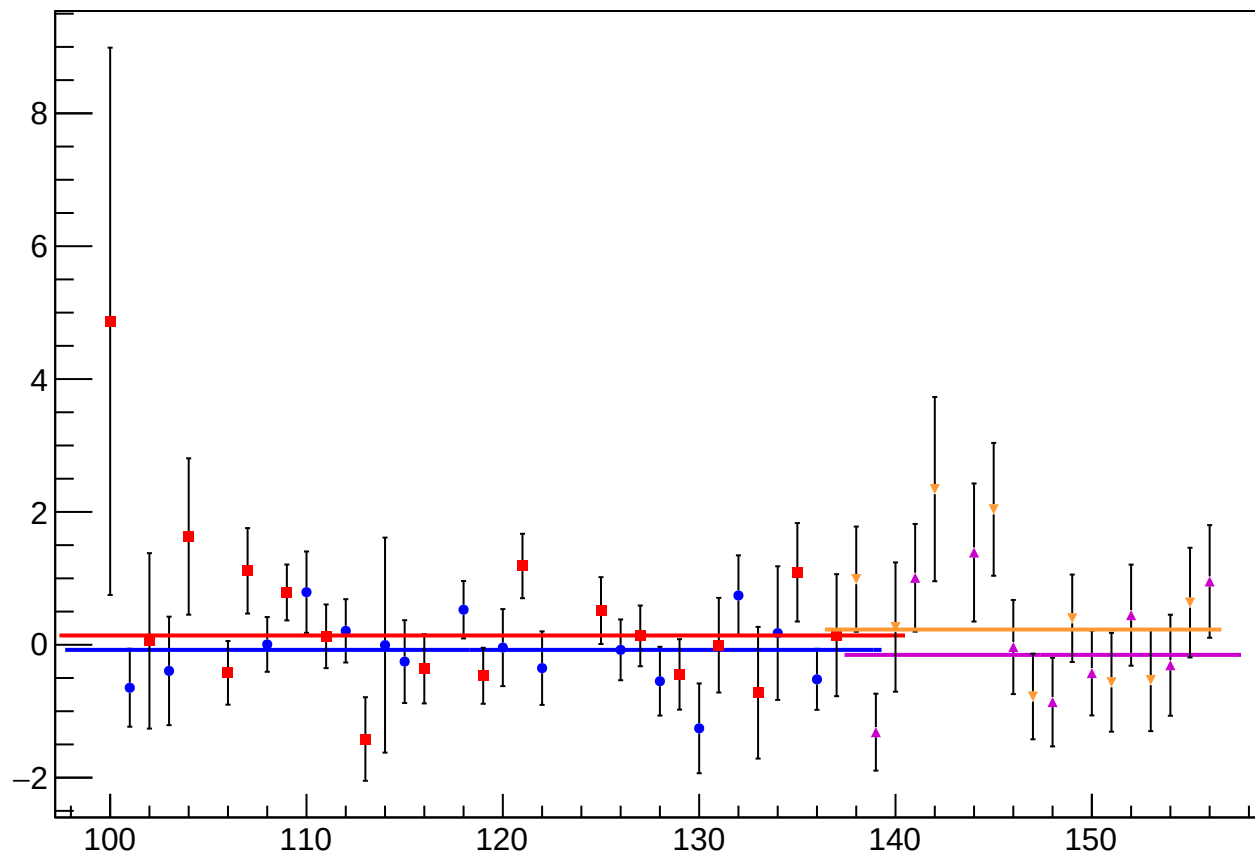
Right: 0.000+/-0.000 χ^2/NDF : 3215206.8/33

In: 0.000+/-0.000 χ^2/NDF : 2676843.6/24

Out: 0.000+/-0.000 χ^2/NDF : 2136037.5/26

All: 0.000+/-0.000 χ^2/NDF : 4832839.2/51

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: 0.230 ± 0.269 χ^2/NDF : 11.4/8

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.152 ± 0.243 χ^2/NDF : 12.0/8

Left: 0.020 ± 0.180 χ^2/NDF : 24.5/17

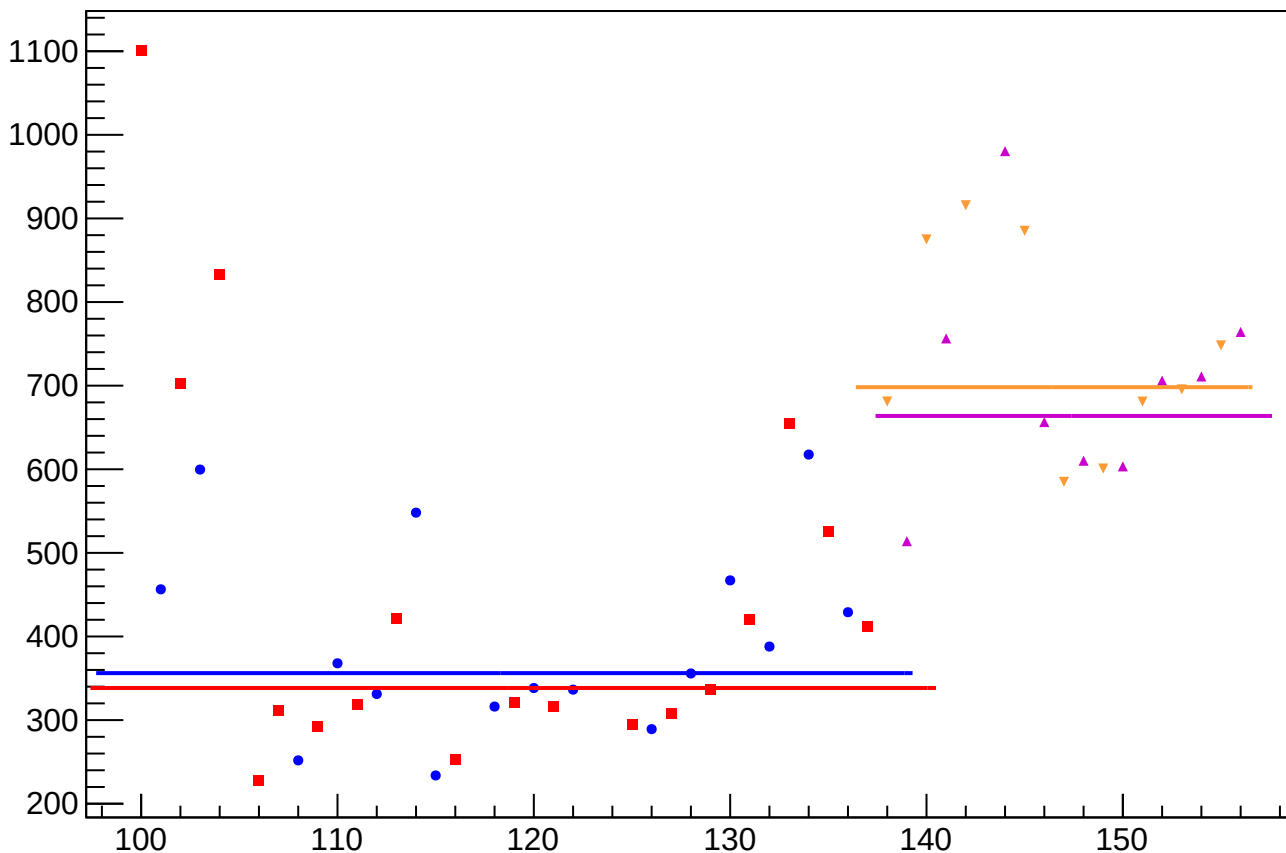
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.095 ± 0.121 χ^2/NDF : 24.6/24

Out: 0.159 ± 0.123 χ^2/NDF : 38.5/26

All: 0.030 ± 0.086 χ^2/NDF : 65.2/51

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190+/-0.099 χ^2/NDF : 785107.3/15

Left Out: 698.177+/-0.190 χ^2/NDF : 300012.5/8

Right Out: 338.410+/-0.098 χ^2/NDF : 1203282.0/17

Left In: 663.779+/-0.172 χ^2/NDF : 418753.7/8

Left: 679.243+/-0.127 χ^2/NDF : 736816.5/17

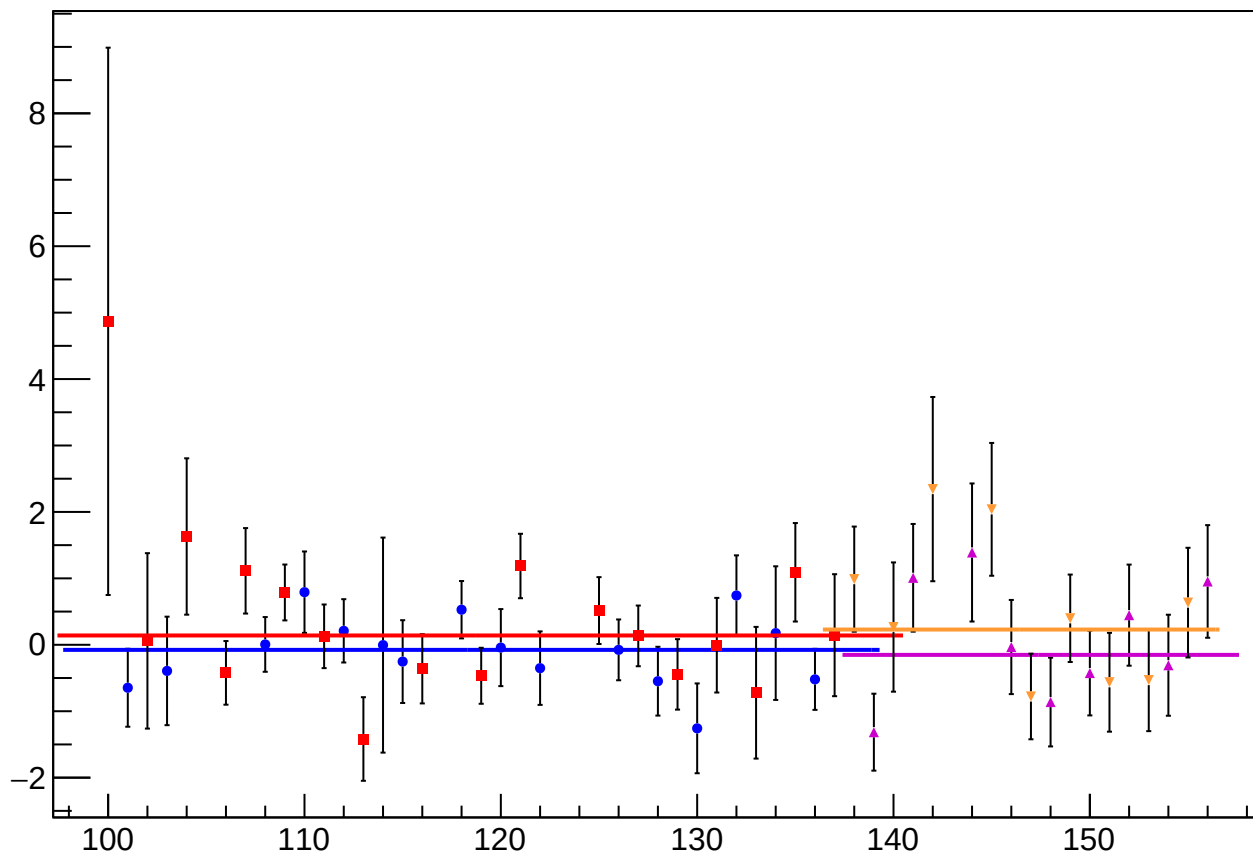
Right: 347.176+/-0.069 χ^2/NDF : 2004764.4/33

In: 432.872+/-0.086 χ^2/NDF : 3614066.5/24

Out: 413.503+/-0.087 χ^2/NDF : 4341677.4/26

All: 423.308+/-0.061 χ^2/NDF : 7980958.5/51

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: 0.230 ± 0.269 χ^2/NDF : 11.4/8

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.152 ± 0.243 χ^2/NDF : 12.0/8

Left: 0.020 ± 0.180 χ^2/NDF : 24.5/17

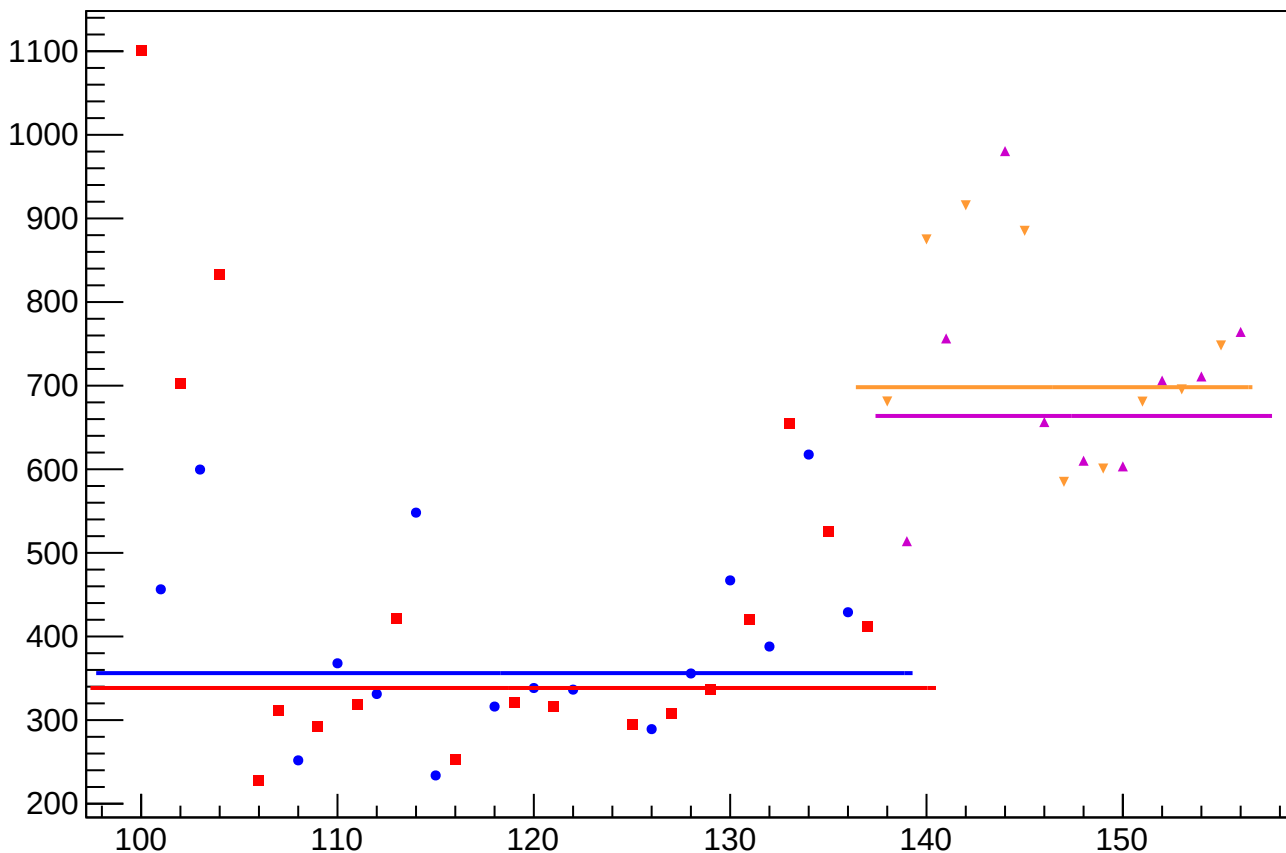
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.095 ± 0.121 χ^2/NDF : 24.6/24

Out: 0.159 ± 0.123 χ^2/NDF : 38.5/26

All: 0.030 ± 0.086 χ^2/NDF : 65.2/51

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190 $\pm$ 0.099 χ^2 /NDF: 785107.3/15

Left Out: 698.177 $\pm$ 0.190 χ^2 /NDF:300012.5/8

Right Out: 338.410 $\pm$ 0.098 χ^2 /NDF: 1203282.0/17

Left In: 663.779 $\pm$ 0.172 χ^2 /NDF:418753.7/8

Left: 679.243 $\pm$ 0.127 χ^2 /NDF: 736816.5/17

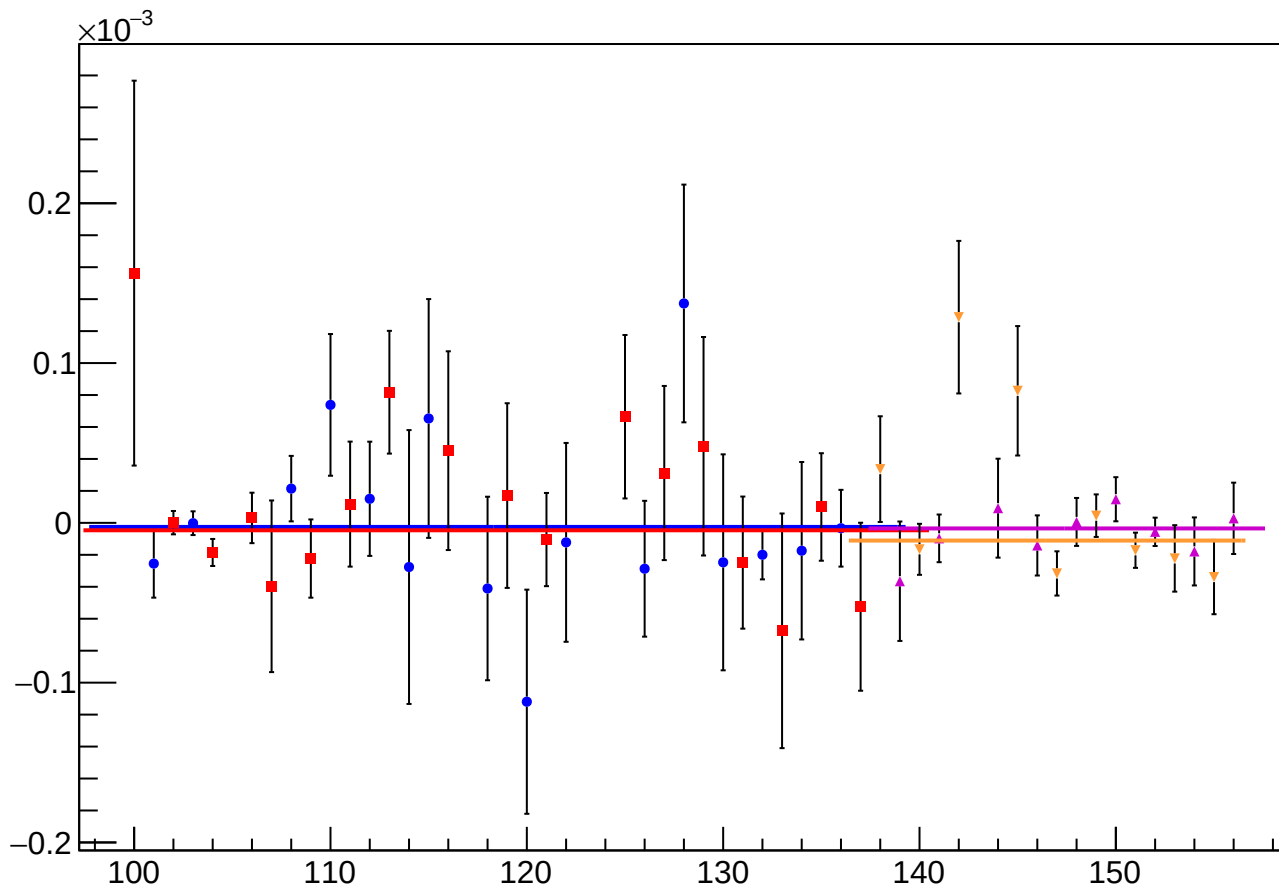
Right: 347.176 $\pm$ 0.069 χ^2 /NDF: 2004764.4/33

In: 432.872 $\pm$ 0.086 χ^2 /NDF:3614066.5/24

Out: 413.503 $\pm$ 0.087 χ^2 /NDF:4341677.4/26

All: 423.308 $\pm$ 0.061 χ^2 /NDF: 7980958.5/51

asym_us_avg_at2lr_avg_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 : 21.0/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.9/8

Left: -0.000+/-0.000 χ^2/NDF : 25.8/17

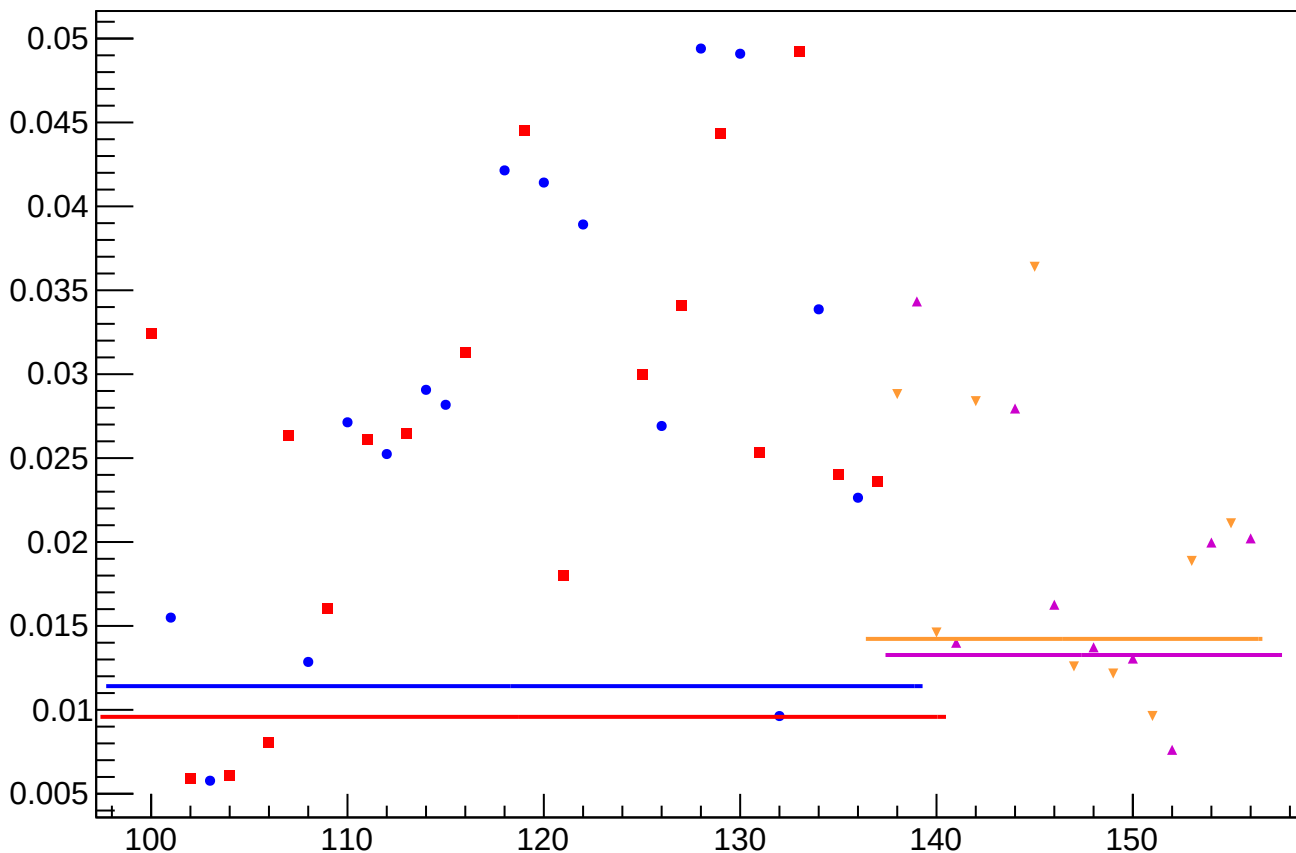
Right: -0.000+/-0.000 χ^2/NDF : 32.2/33

In: -0.000+/-0.000 χ^2/NDF : 18.9/24

Out: -0.000+/-0.000 χ^2/NDF : 38.8/26

All: -0.000+/-0.000 χ^2/NDF : 58.3/51

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: 0.014+/-0.000 χ^2/NDF : 1864406.8/8

Right Out: 0.010+/-0.000 χ^2/NDF : 5787700.4/17

Left In: 0.013+/-0.000 χ^2/NDF : 2347105.7/8

Left: 0.014+/-0.000 χ^2/NDF : 4241062.7/17

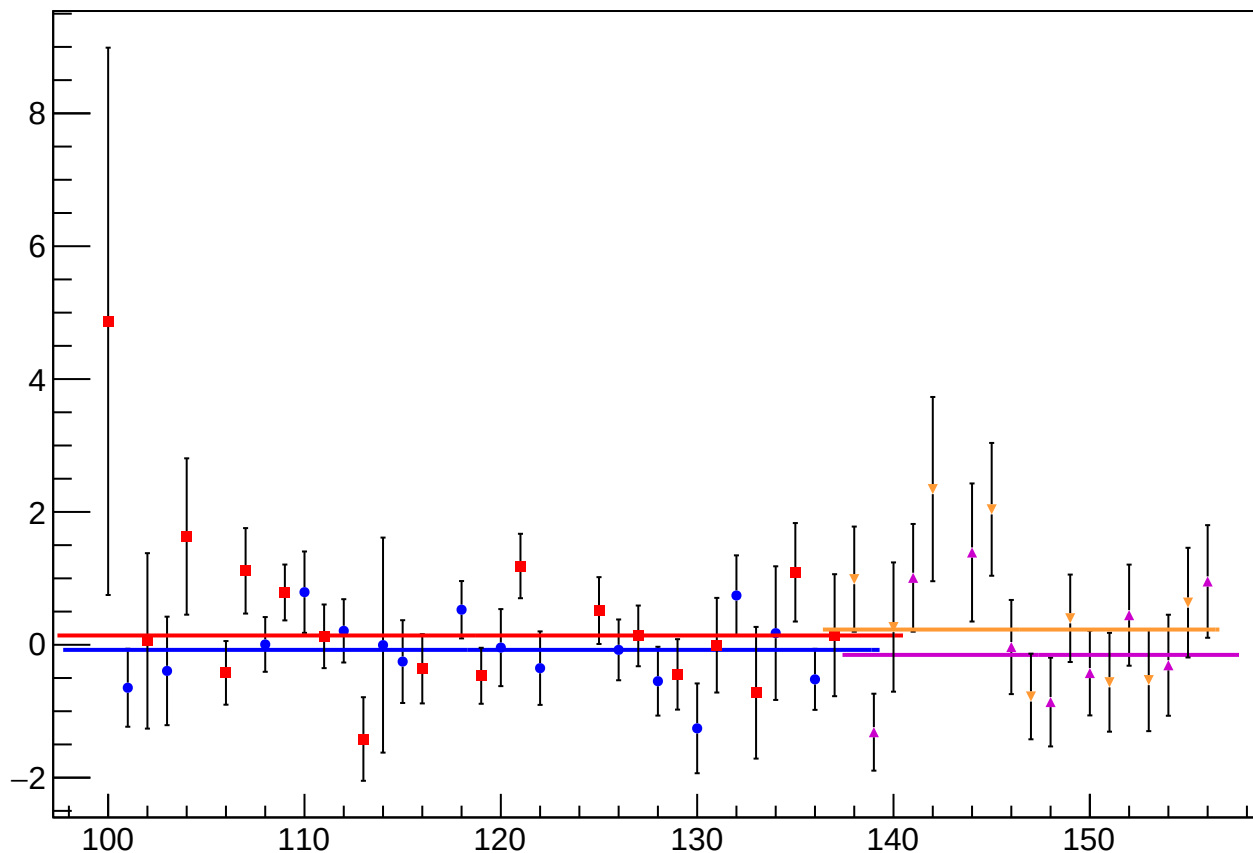
Right: 0.010+/-0.000 χ^2/NDF : 11414181.9/33

In: 0.012+/-0.000 χ^2/NDF : 7964550.7/24

Out: 0.011+/-0.000 χ^2/NDF : 8414556.8/26

All: 0.012+/-0.000 χ^2/NDF : 16446356.6/51

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: 0.230 ± 0.269 χ^2/NDF : 11.4/8

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.152 ± 0.243 χ^2/NDF : 12.0/8

Left: 0.020 ± 0.180 χ^2/NDF : 24.5/17

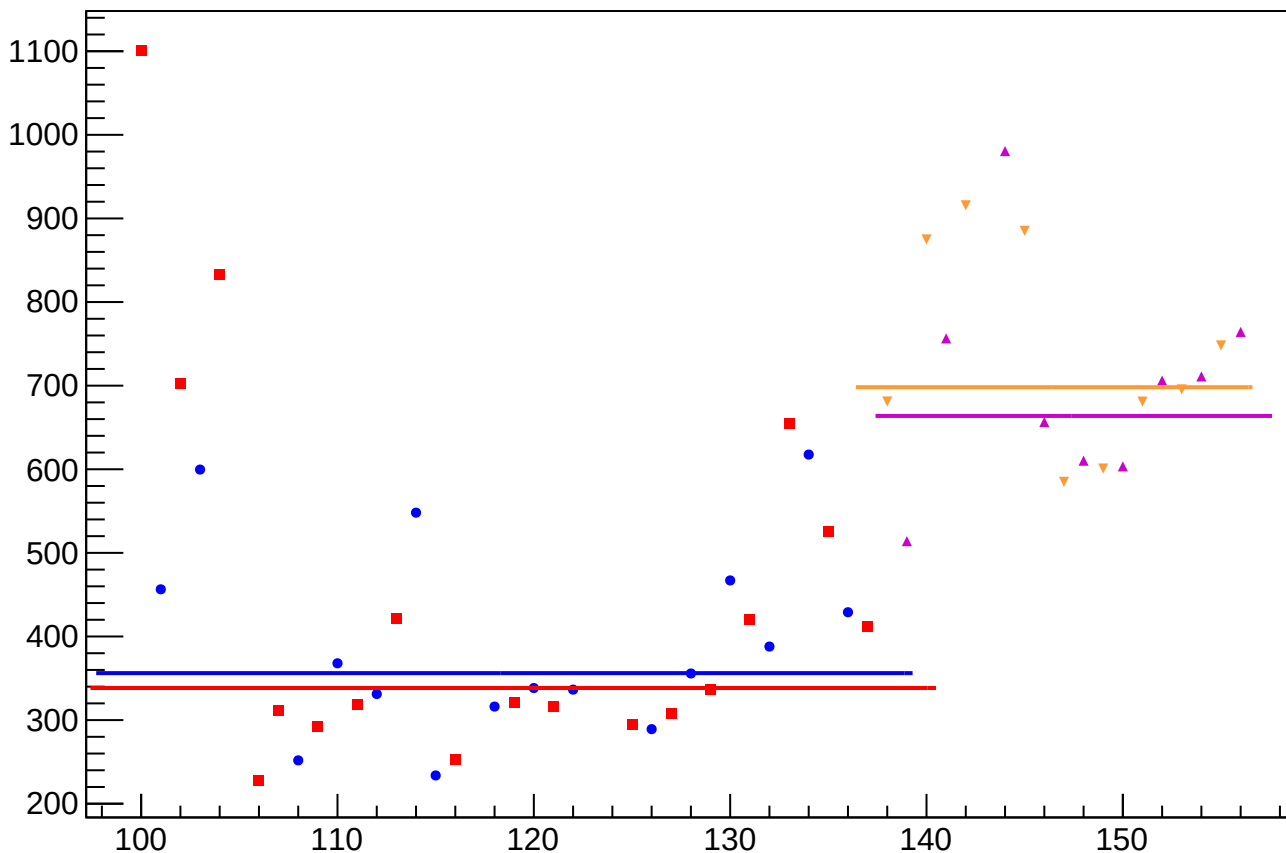
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.095 ± 0.121 χ^2/NDF : 24.6/24

Out: 0.159 ± 0.123 χ^2/NDF : 38.5/26

All: 0.030 ± 0.086 χ^2/NDF : 65.2/51

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Left: 679.252 $\pm$ 0.127 χ^2/NDF : 736809.4/17

Right: 347.175 $\pm$ 0.069 χ^2/NDF : 2004710.0/33

In: 432.871 $\pm$ 0.086 χ^2/NDF : 3614149.1/24

Out: 413.501 $\pm$ 0.087 χ^2/NDF : 4341780.0/26

All: 423.306 $\pm$ 0.061 χ^2/NDF : 7981147.1/51

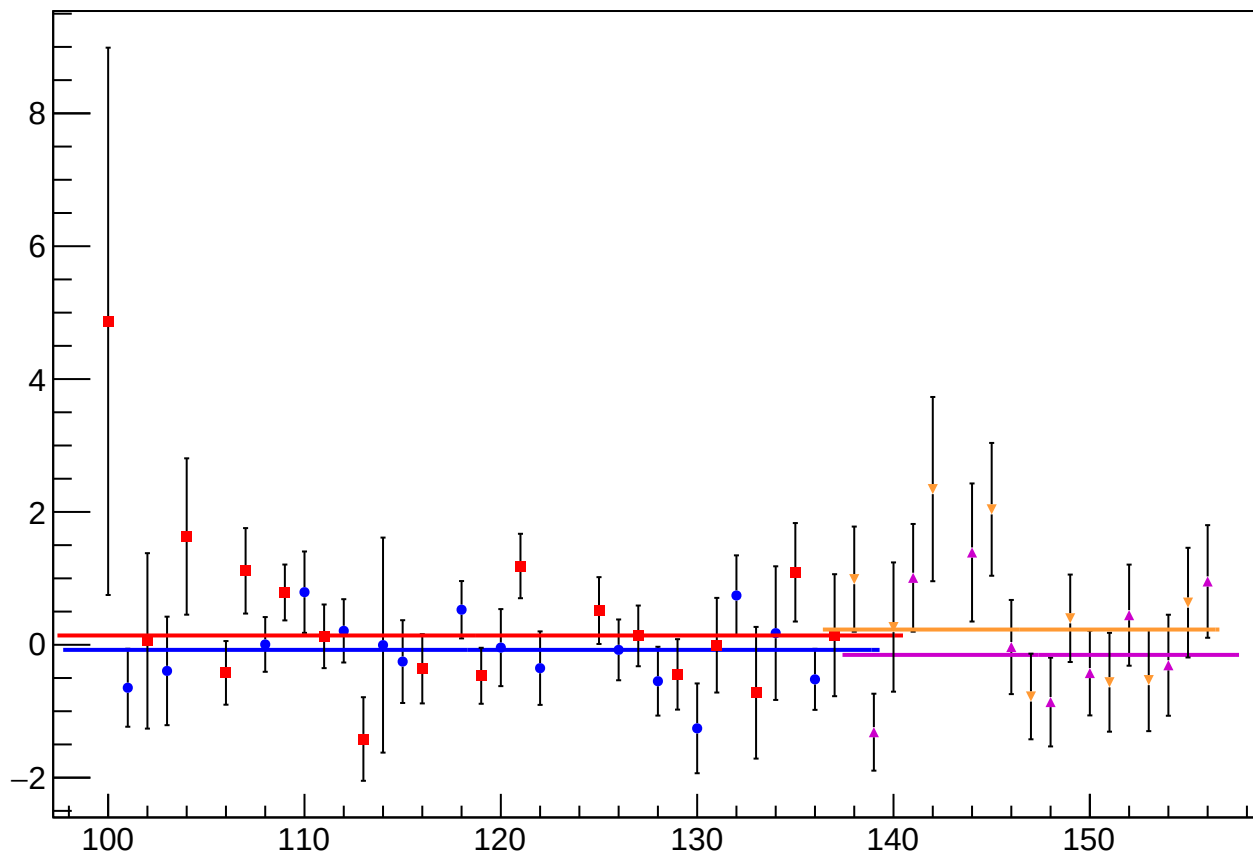
Right In: 356.188 $\pm$ 0.099 χ^2/NDF : 785072.9/15

Left Out: 698.185 $\pm$ 0.190 χ^2/NDF : 300018.9/8

Right Out: 338.408 $\pm$ 0.098 χ^2/NDF : 1203260.7/17

Left In: 663.789 $\pm$ 0.172 χ^2/NDF : 418742.3/8

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: 0.230 ± 0.269 χ^2/NDF : 11.4/8

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.152 ± 0.243 χ^2/NDF : 12.0/8

Left: 0.020 ± 0.180 χ^2/NDF : 24.5/17

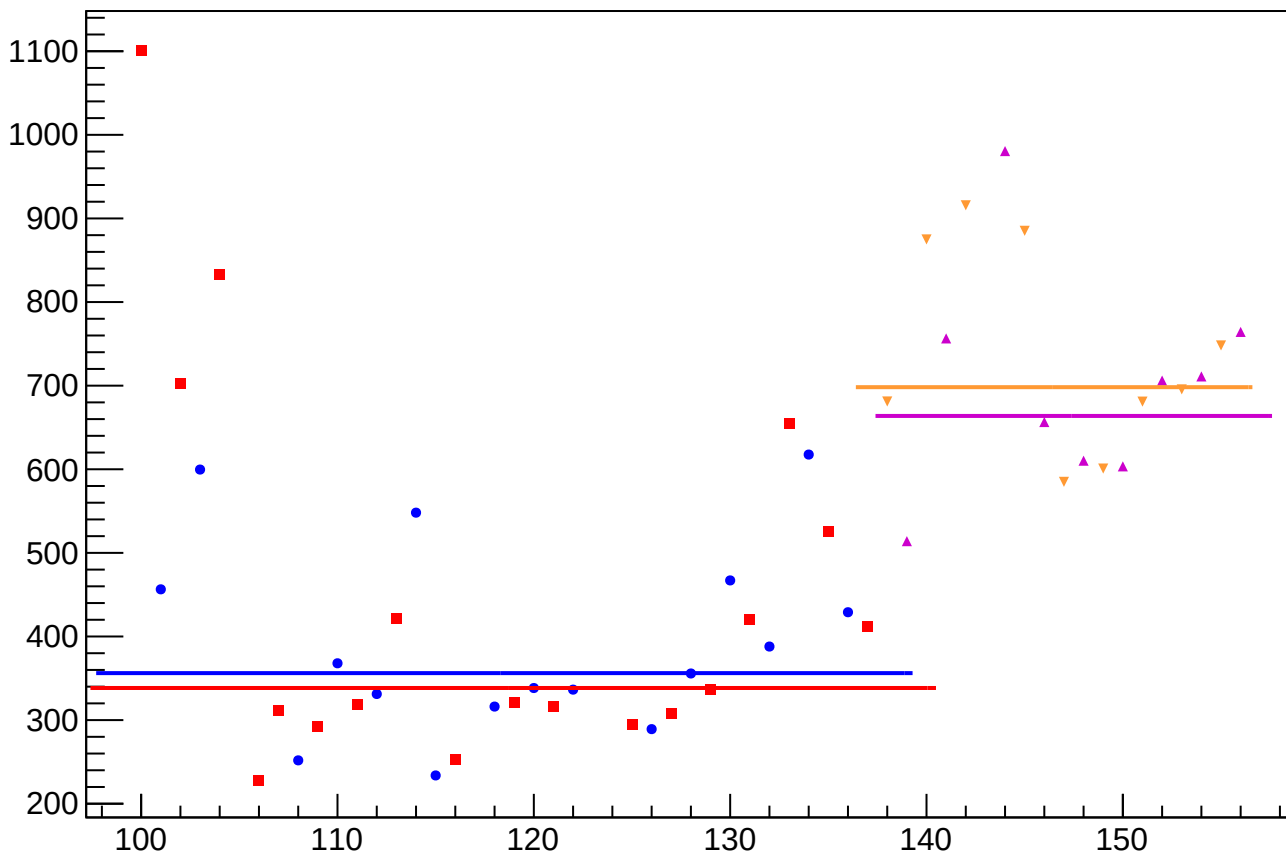
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.095 ± 0.121 χ^2/NDF : 24.6/24

Out: 0.159 ± 0.123 χ^2/NDF : 38.5/26

All: 0.030 ± 0.086 χ^2/NDF : 65.2/51

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: 698.185 $\pm$ 0.190 χ^2/NDF : 300018.9/8

Right Out: 338.408 $\pm$ 0.098 χ^2/NDF : 1203260.7/17

Left In: 663.789 $\pm$ 0.172 χ^2/NDF : 418742.3/8

Left: 679.252 $\pm$ 0.127 χ^2/NDF : 736809.4/17

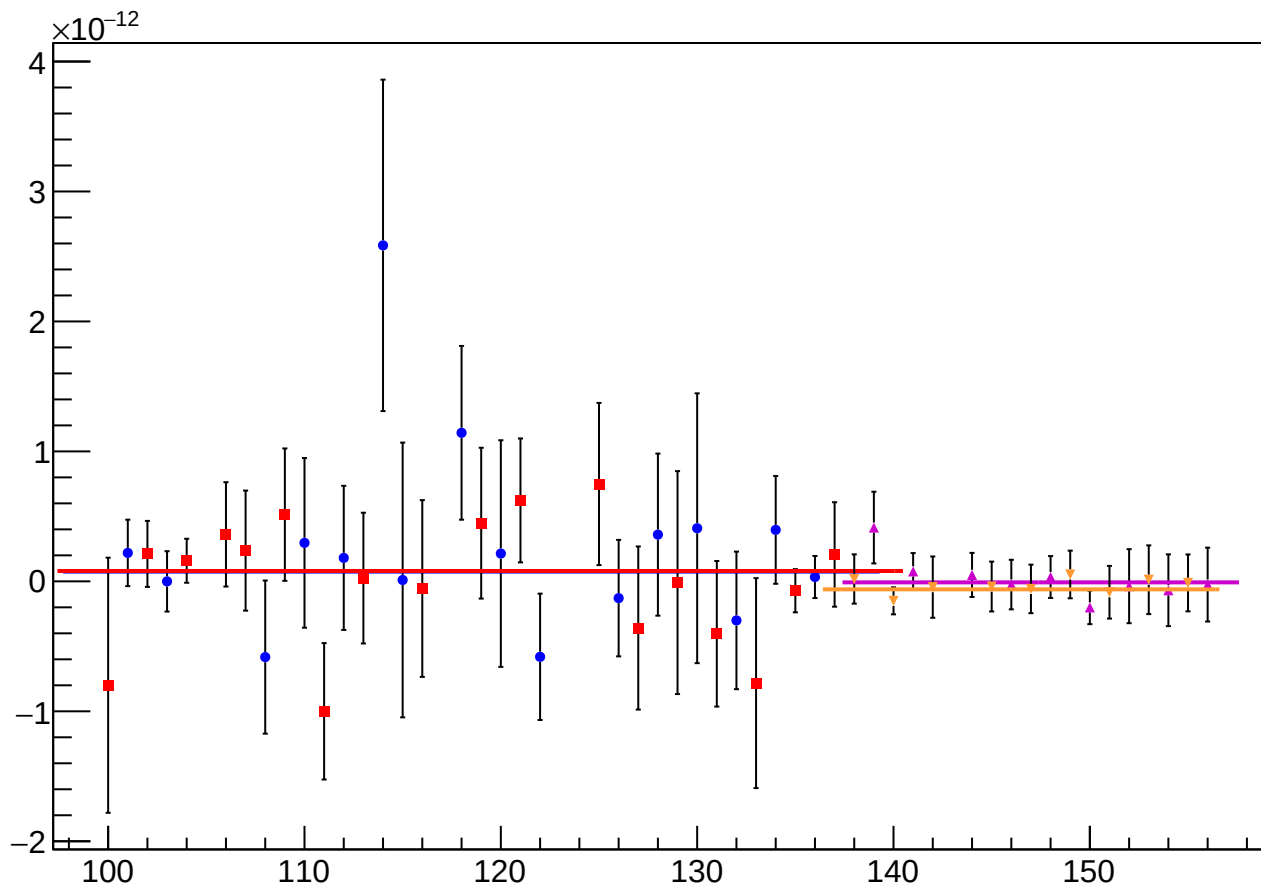
Right: 347.175 $\pm$ 0.069 χ^2/NDF : 2004710.0/33

In: 432.871 $\pm$ 0.086 χ^2/NDF : 3614149.1/24

Out: 413.501 $\pm$ 0.087 χ^2/NDF : 4341780.0/26

All: 423.306 $\pm$ 0.061 χ^2/NDF : 7981147.1/51

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 11.8/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 1.5/8

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 13.1/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.2/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 7.0/17

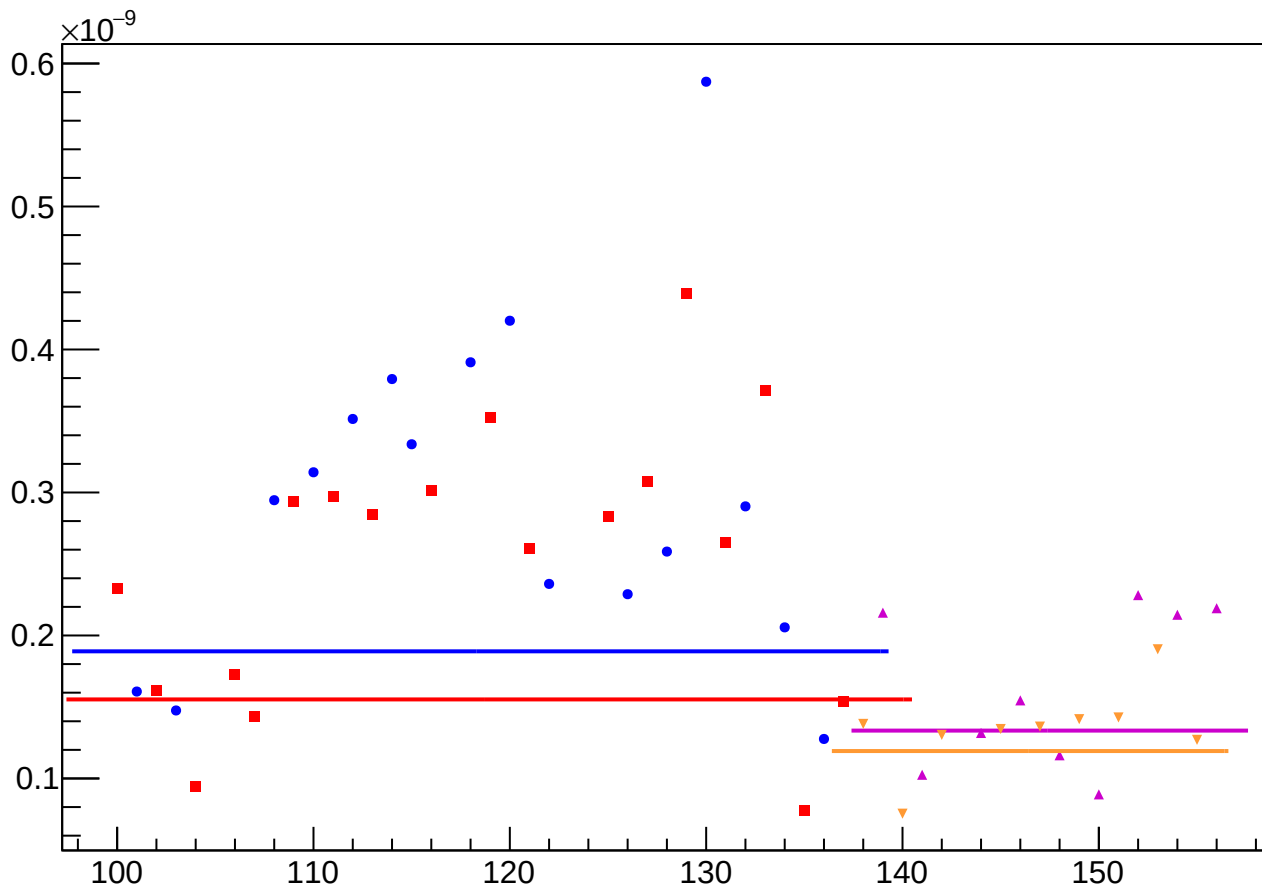
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.9/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.5/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.4/26

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 34.1/51

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 : 613741.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2200687.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 1136612.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1806119.9/17

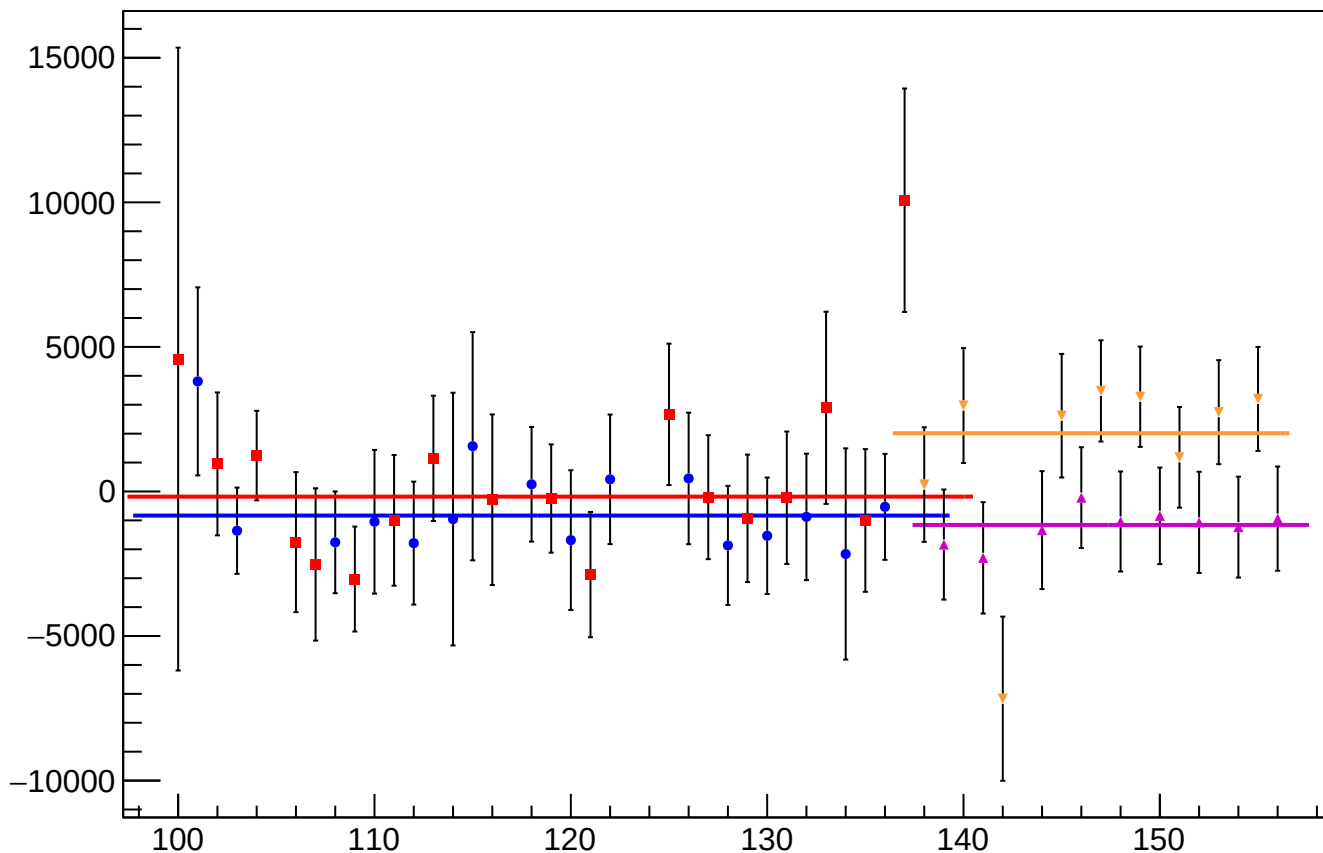
Right: 0.000+/-0.000 χ^2/NDF : 3857679.7/33

In: 0.000+/-0.000 χ^2/NDF : 3126332.7/24

Out: 0.000+/-0.000 χ^2/NDF : 3055205.8/26

All: 0.000+/-0.000 χ^2/NDF : 6318966.4/51

reg_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.479 ± 554.833 $\chi^2/\text{NDF}: 4.6/15$

Left Out: 2013.615 ± 637.926 $\chi^2/\text{NDF}: 13.6/8$

Right Out: -178.292 ± 547.824 $\chi^2/\text{NDF}: 16.5/17$

Left In: -1158.078 ± 600.764 $\chi^2/\text{NDF}: 0.8/8$

Left: 332.700 ± 437.352 $\chi^2/\text{NDF}: 27.6/17$

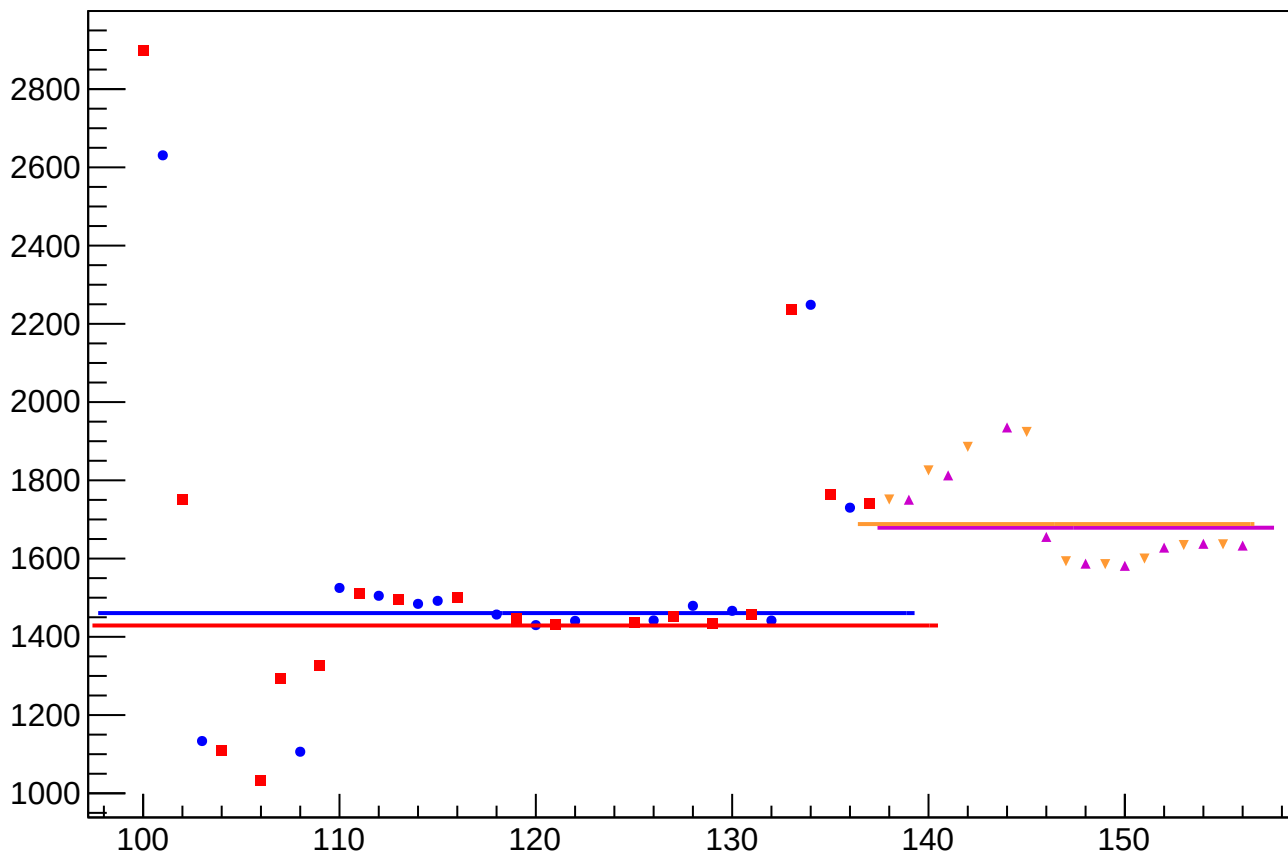
Right: -501.721 ± 389.824 $\chi^2/\text{NDF}: 21.8/33$

In: -982.897 ± 407.598 $\chi^2/\text{NDF}: 5.6/24$

Out: 752.059 ± 415.607 $\chi^2/\text{NDF}: 36.9/26$

All: -132.297 ± 291.006 $\chi^2/\text{NDF}: 51.4/51$

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: 1688.206+/-0.451 χ^2/NDF : 66923.9/8

Right Out: 1428.940+/-0.385 χ^2/NDF : 411275.6/17

Left In: 1678.872+/-0.425 χ^2/NDF : 60932.6/8

Left: 1683.259+/-0.309 χ^2/NDF : 128083.4/17

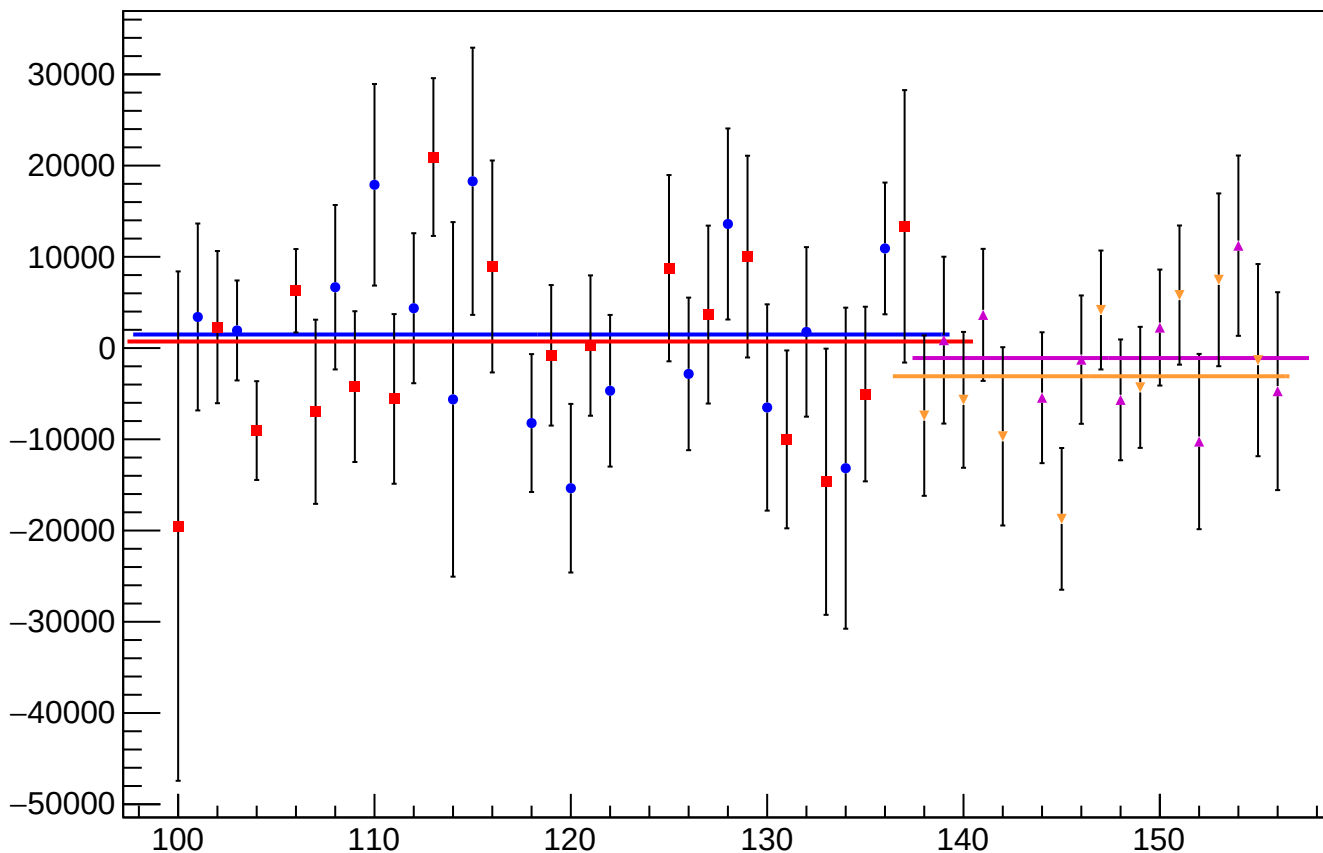
Right: 1444.478+/-0.275 χ^2/NDF : 990344.6/33

In: 1561.103+/-0.288 χ^2/NDF : 779080.3/24

Out: 1538.048+/-0.293 χ^2/NDF : 669530.1/26

All: 1549.750+/-0.205 χ^2/NDF : 1451761.3/51

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: -3091.514+/-2656.963 χ^2/NDF : 8.8/8

Right Out: 720.166+/-2011.559 χ^2/NDF : 17.5/17

Left In: -1093.564+/-2600.578 χ^2/NDF : 4.2/8

Left: -2071.115+/-1858.501 χ^2/NDF : 13.2/17

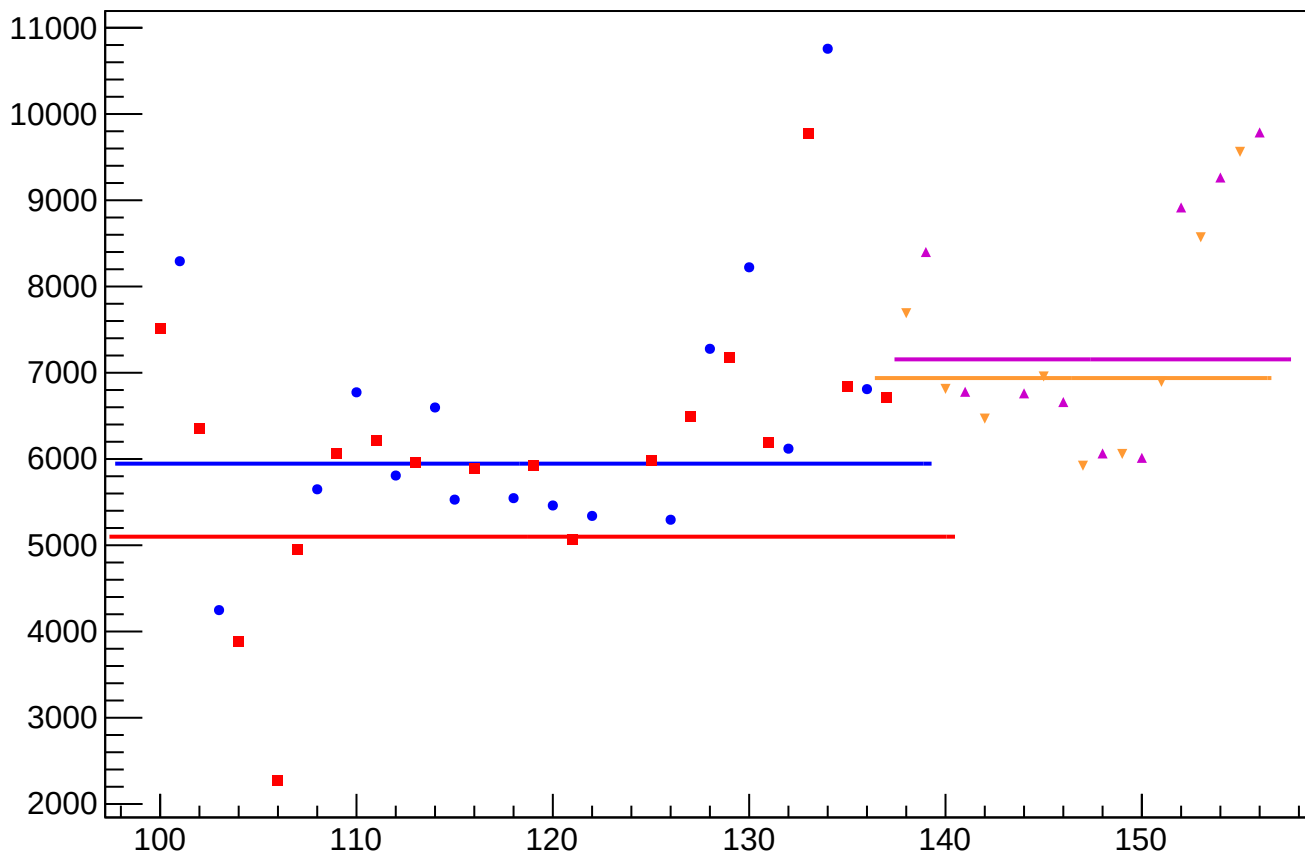
Right: 1057.985+/-1504.928 χ^2/NDF : 31.8/33

In: 372.413+/-1709.299 χ^2/NDF : 18.9/24

Out: -668.607+/-1603.773 χ^2/NDF : 27.6/26

All: -181.221+/-1169.566 χ^2/NDF : 46.7/51

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: 6938.502+/-1.879 χ^2/NDF : 287207.0/8

Right Out: 5099.375+/-1.422 χ^2/NDF : 1480367.2/17

Left In: 7155.228+/-1.839 χ^2/NDF : 453276.0/8

Left: 7049.189+/-1.314 χ^2/NDF : 747279.3/17

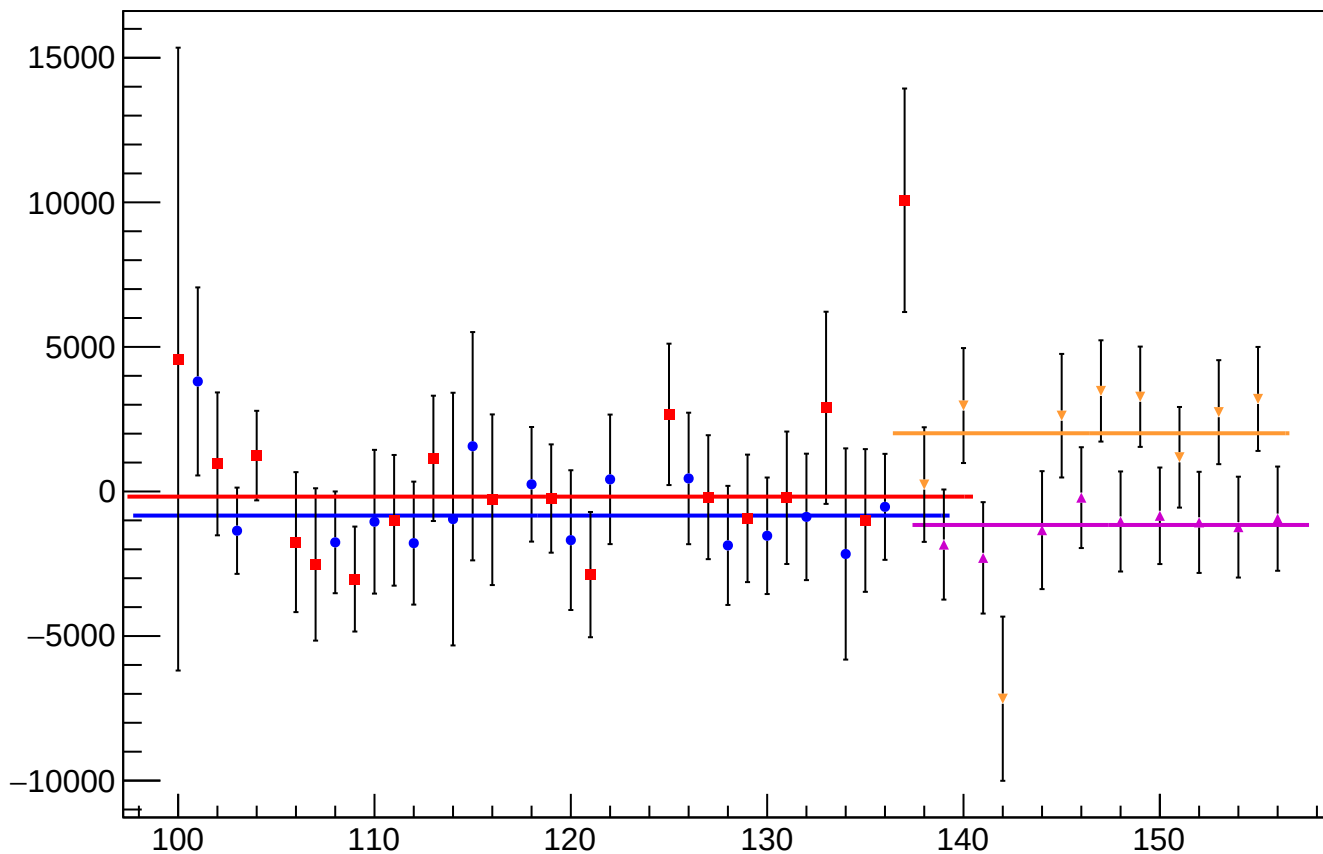
Right: 5472.167+/-1.064 χ^2/NDF : 2277512.7/33

In: 6468.447+/-1.209 χ^2/NDF : 1339985.0/24

Out: 5769.454+/-1.134 χ^2/NDF : 2376694.2/26

All: 6096.709+/-0.827 χ^2/NDF : 3894549.3/51

cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.542 $\pm$ 554.833 χ^2 /NDF: 4.6/15

Left Out: 2013.579 $\pm$ 637.926 χ^2 /NDF:13.6/8

Right Out: -178.133 $\pm$ 547.824 χ^2 /NDF: 16.5/17

Left In: -1158.148 $\pm$ 600.764 χ^2 /NDF:0.8/8

Left: 332.645 $\pm$ 437.352 χ^2 /NDF: 27.6/17

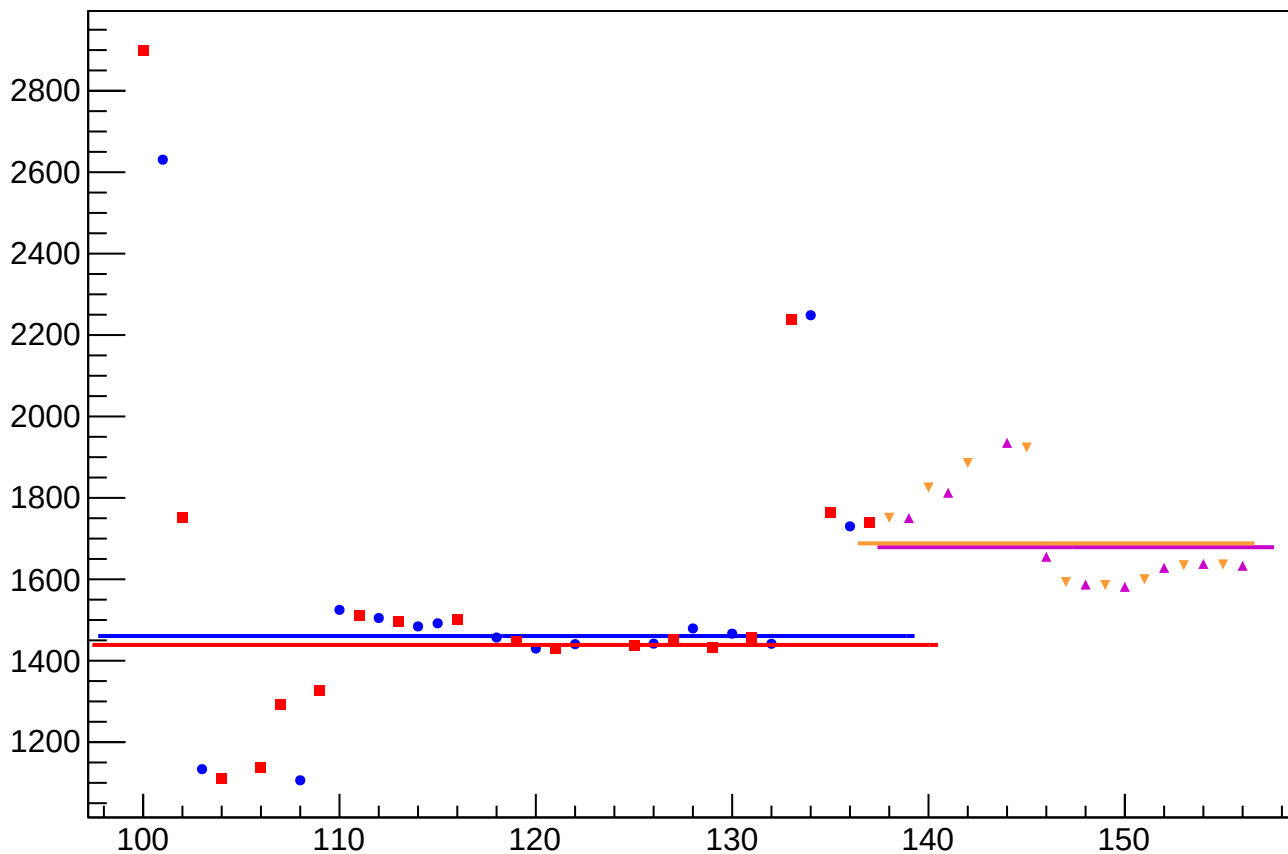
Right: -501.671 $\pm$ 389.824 χ^2 /NDF: 21.8/33

In: -982.963 $\pm$ 407.598 χ^2 /NDF:5.6/24

Out: 752.136 $\pm$ 415.607 χ^2 /NDF:36.9/26

All: -132.293 $\pm$ 291.006 χ^2 /NDF: 51.4/51

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: 1688.206 +/- 0.451 χ^2/NDF : 66923.9/8

Right Out: 1438.764 +/- 0.386 χ^2/NDF : 373375.6/17

Left In: 1678.872 +/- 0.425 χ^2/NDF : 60932.6/8

Left: 1683.259 +/- 0.309 χ^2/NDF : 128083.4/17

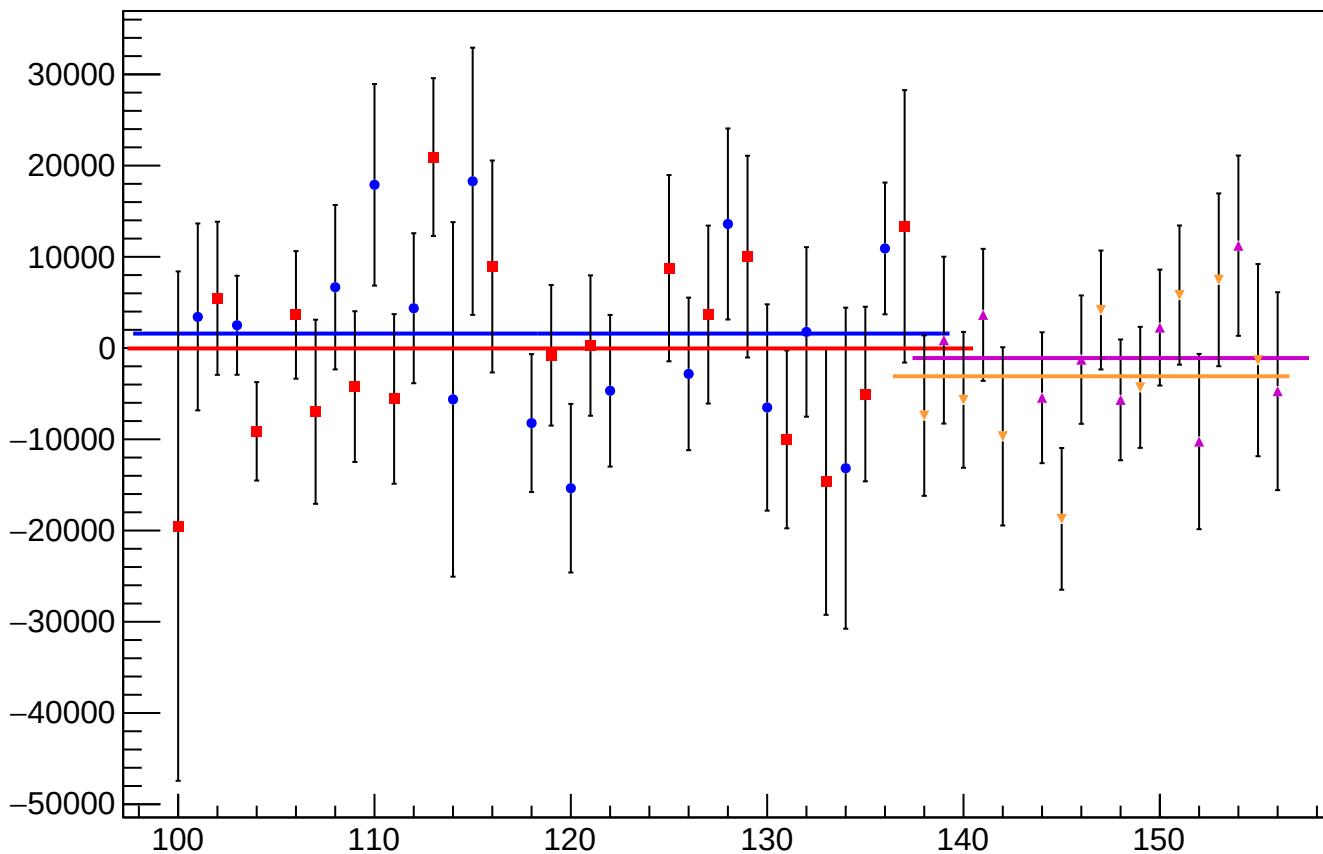
Right: 1449.544 +/- 0.275 χ^2/NDF : 950691.7/33

In: 1561.103 +/- 0.288 χ^2/NDF : 779080.7/24

Out: 1544.360 +/- 0.293 χ^2/NDF : 616641.6/26

All: 1552.884 +/- 0.206 χ^2/NDF : 1397379.0/51

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: -3091.559 $\pm$ 2656.961 χ^2 /NDF: 8.8/8

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: -1093.651 $\pm$ 2600.576 χ^2 /NDF: 4.2/8

Left: -2071.181 $\pm$ 1858.500 χ^2 /NDF: 13.2/17

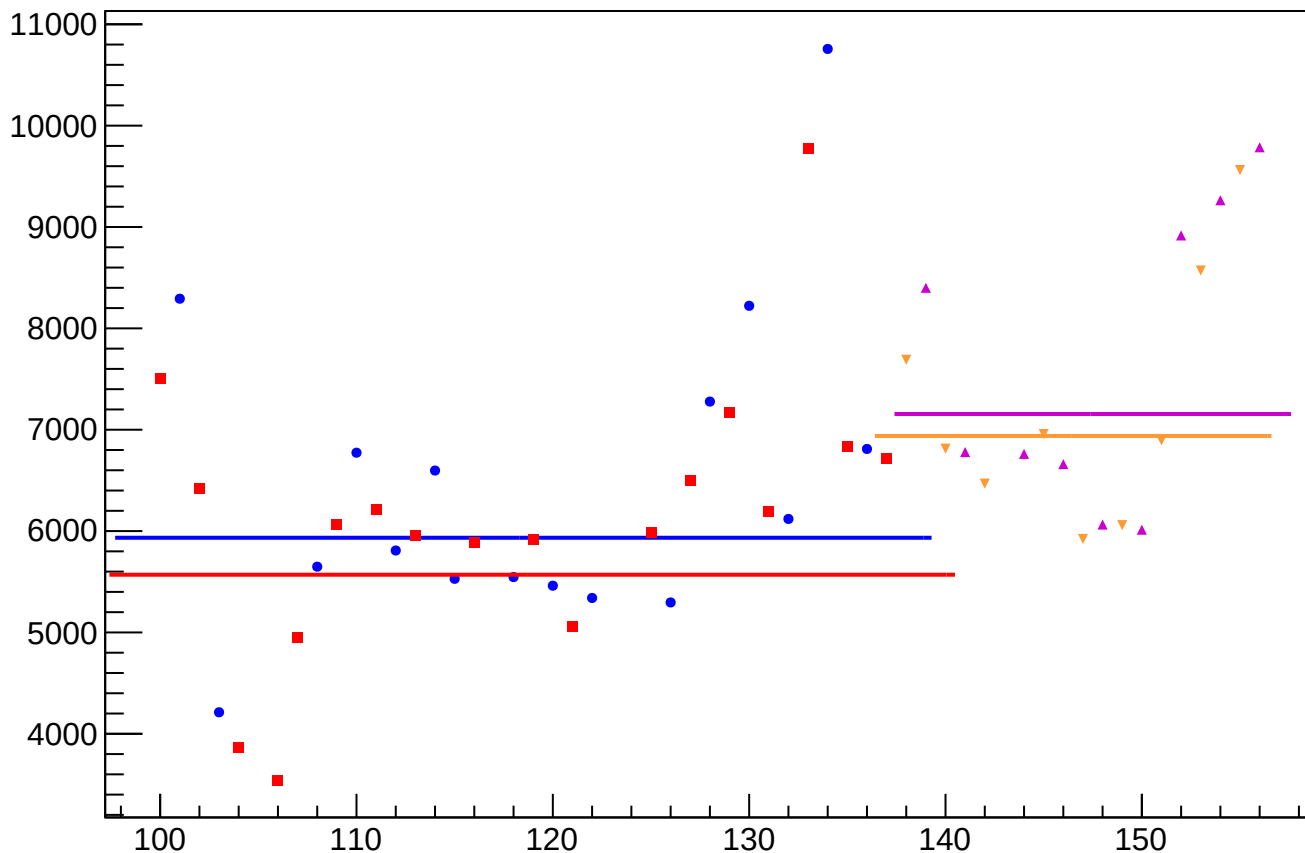
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: 432.053 $\pm$ 1707.683 χ^2 /NDF: 19.0/24

Out: -1236.342 $\pm$ 1663.340 χ^2 /NDF: 26.0/26

All: -424.087 $\pm$ 1191.527 χ^2 /NDF: 45.5/51

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: 6938.497+/-1.879 χ^2/NDF : 287208.0/8

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7155.223+/-1.839 χ^2/NDF : 453278.1/8

Left: 7049.184+/-1.314 χ^2/NDF : 747282.3/17

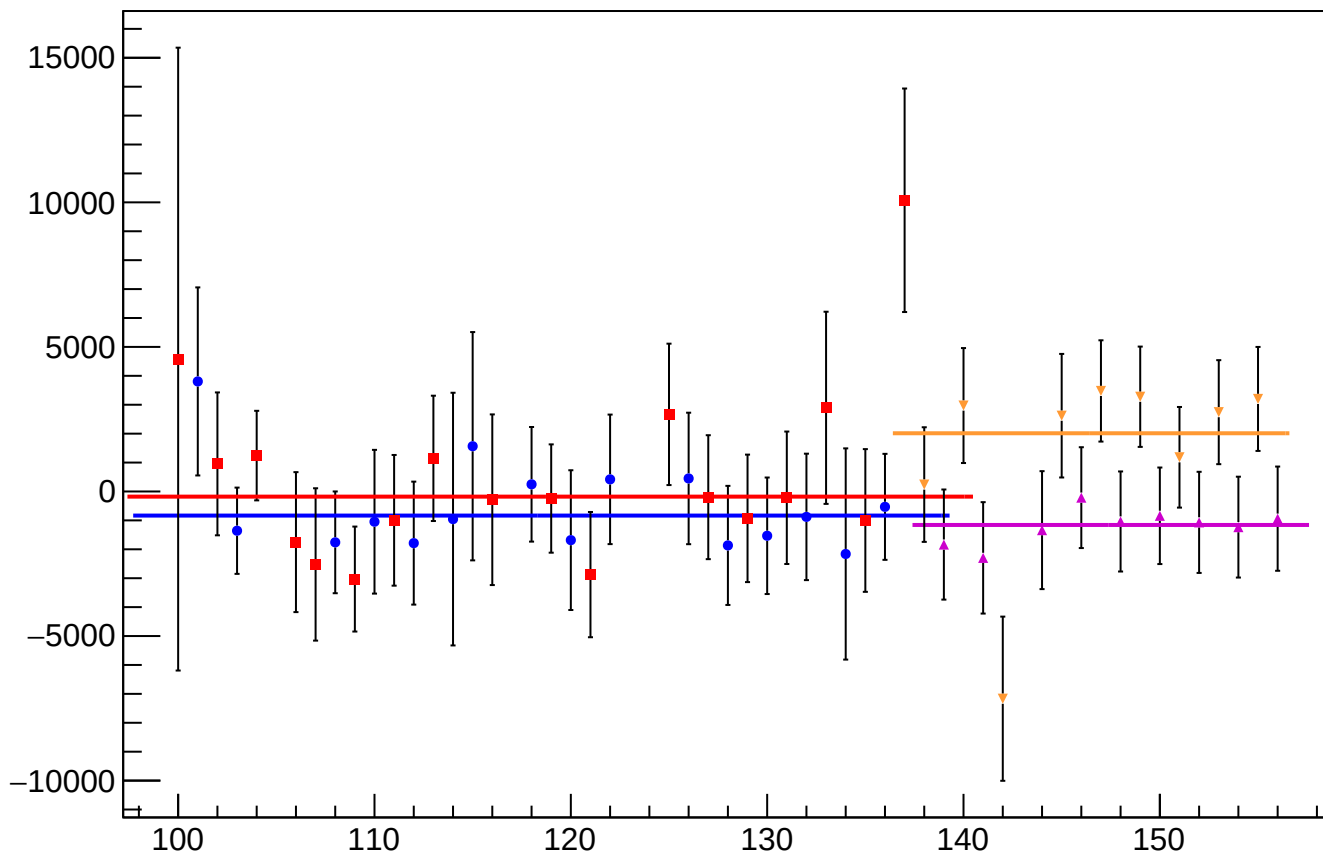
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6460.706+/-1.208 χ^2/NDF : 1357141.7/24

Out: 6106.095+/-1.176 χ^2/NDF : 1334077.9/26

All: 6278.737+/-0.843 χ^2/NDF : 2735475.0/51

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: 2013.579 ± 637.926 χ^2/NDF : 13.6/8

Right Out: -178.133 ± 547.824 χ^2/NDF : 16.5/17

Left In: -1158.148 ± 600.764 χ^2/NDF : 0.8/8

Left: 332.645 ± 437.352 χ^2/NDF : 27.6/17

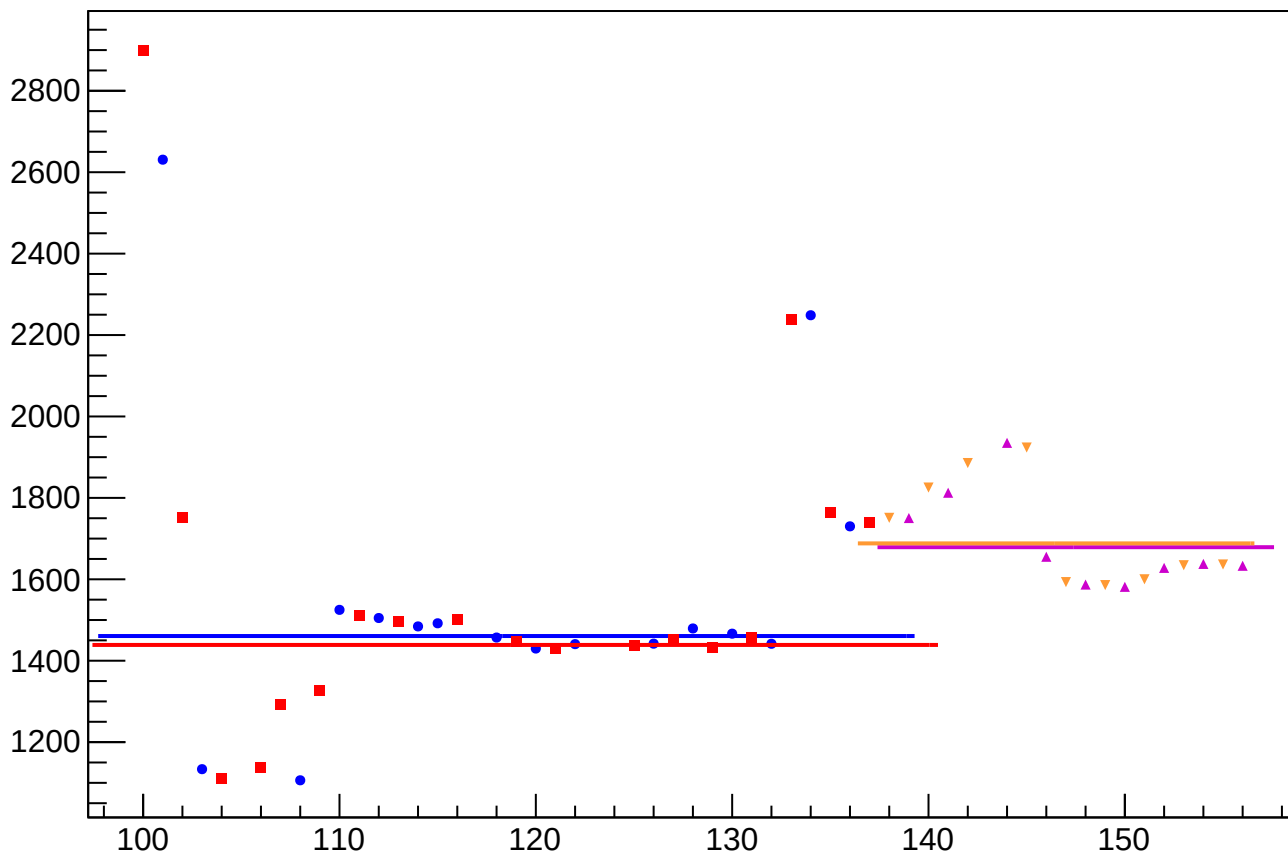
Right: -501.671 ± 389.824 χ^2/NDF : 21.8/33

In: -982.963 ± 407.598 χ^2/NDF : 5.6/24

Out: 752.136 ± 415.607 χ^2/NDF : 36.9/26

All: -132.293 ± 291.006 χ^2/NDF : 51.4/51

eigen_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: 1688.206 $\pm$ 0.451 χ^2/NDF : 66923.9/8

Right Out: 1438.764 $\pm$ 0.386 χ^2/NDF : 373375.6/17

Left In: 1678.872 $\pm$ 0.425 χ^2/NDF : 60932.6/8

Left: 1683.259 $\pm$ 0.309 χ^2/NDF : 128083.4/17

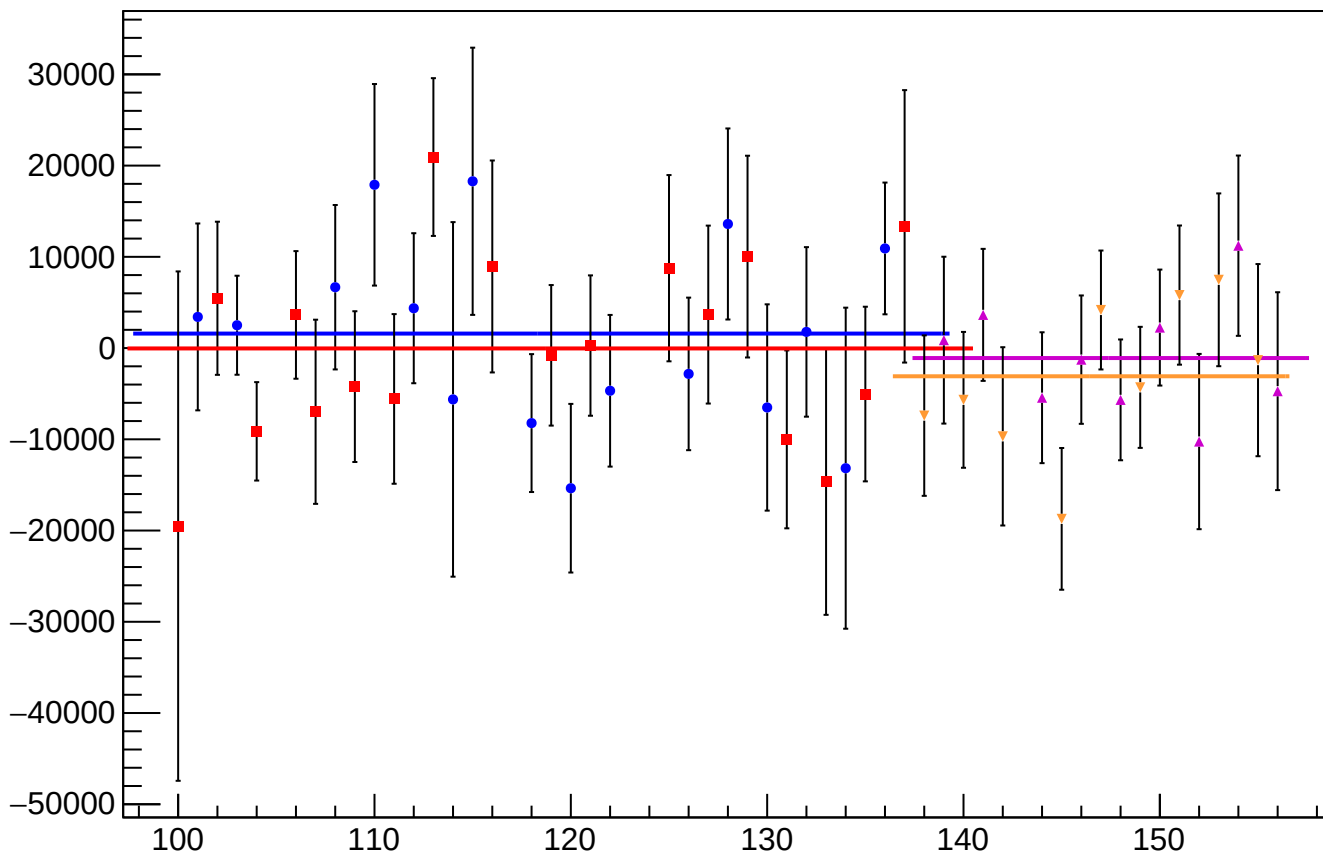
Right: 1449.544 $\pm$ 0.275 χ^2/NDF : 950691.7/33

In: 1561.103 $\pm$ 0.288 χ^2/NDF : 779080.7/24

Out: 1544.360 $\pm$ 0.293 χ^2/NDF : 616641.6/26

All: 1552.884 $\pm$ 0.206 χ^2/NDF : 1397379.0/51

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: -3091.559 $\pm$ 2656.961 χ^2 /NDF:8.8/8

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: -1093.651 $\pm$ 2600.576 χ^2 /NDF:4.2/8

Left: -2071.181 $\pm$ 1858.500 χ^2 /NDF: 13.2/17

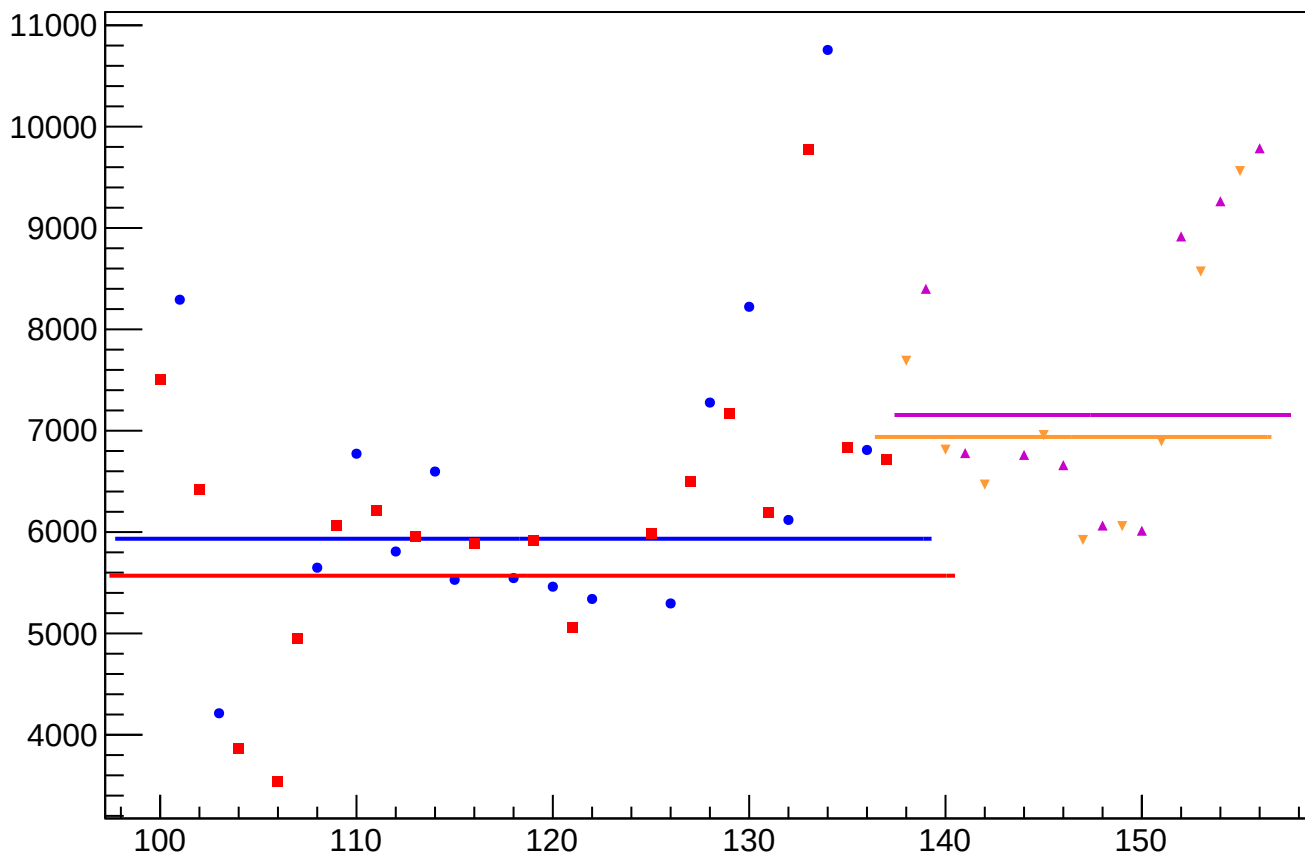
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: 432.053 $\pm$ 1707.683 χ^2 /NDF:19.0/24

Out: -1236.342 $\pm$ 1663.340 χ^2 /NDF:26.0/26

All: -424.087 $\pm$ 1191.527 χ^2 /NDF: 45.5/51

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: 6938.497+/-1.879 χ^2/NDF : 287208.0/8

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7155.223+/-1.839 χ^2/NDF : 453278.1/8

Left: 7049.184+/-1.314 χ^2/NDF : 747282.3/17

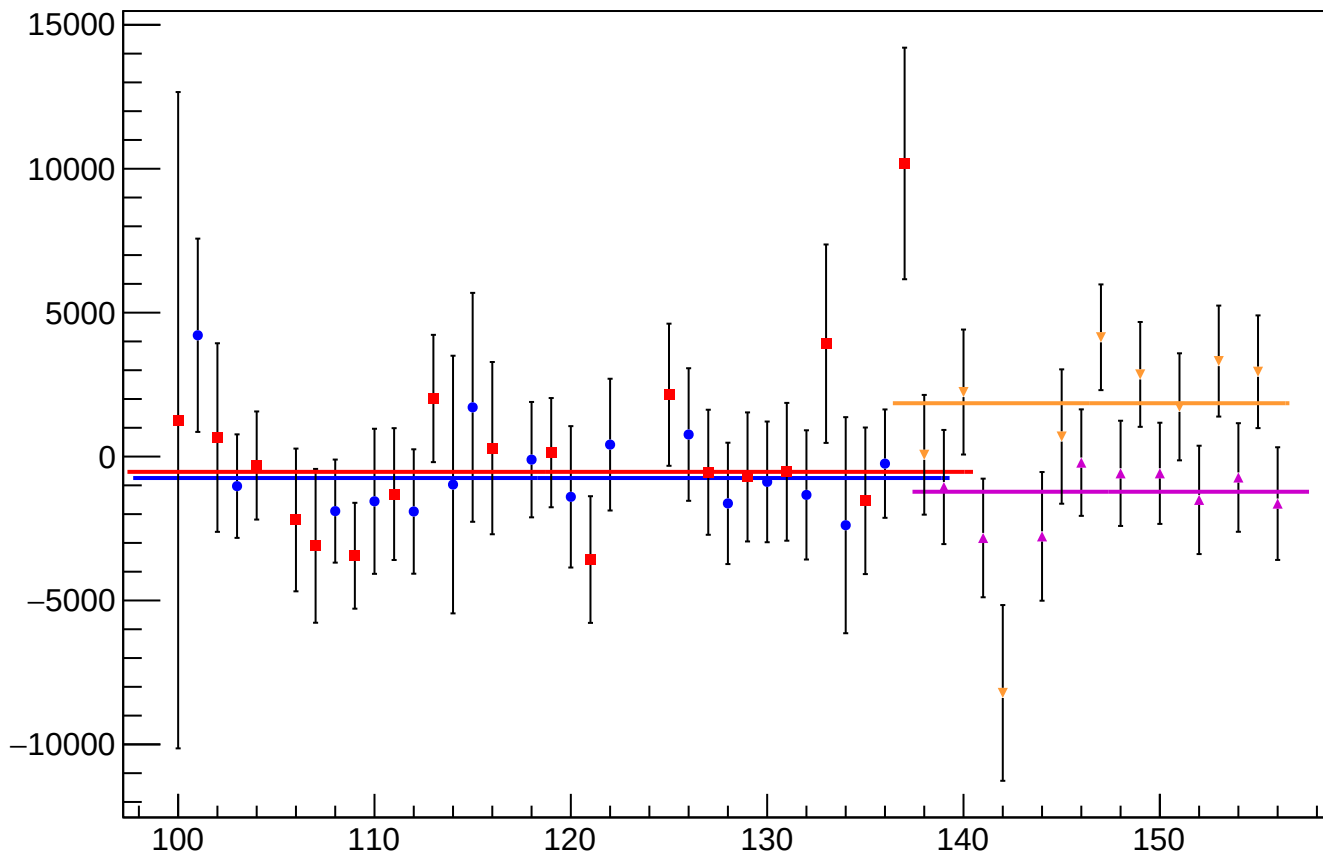
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6460.706+/-1.208 χ^2/NDF : 1357141.7/24

Out: 6106.095+/-1.176 χ^2/NDF : 1334077.9/26

All: 6278.737+/-0.843 χ^2/NDF : 2735475.0/51

dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -745.914+/-578.071 χ^2/NDF : 4.8/15

Left Out: 1853.385+/-681.840 χ^2/NDF : 14.6/8

Right Out: -531.292+/-575.115 χ^2/NDF : 17.7/17

Left In: -1222.470+/-641.595 χ^2/NDF : 1.8/8

Left: 222.009+/-467.257 χ^2/NDF : 27.2/17

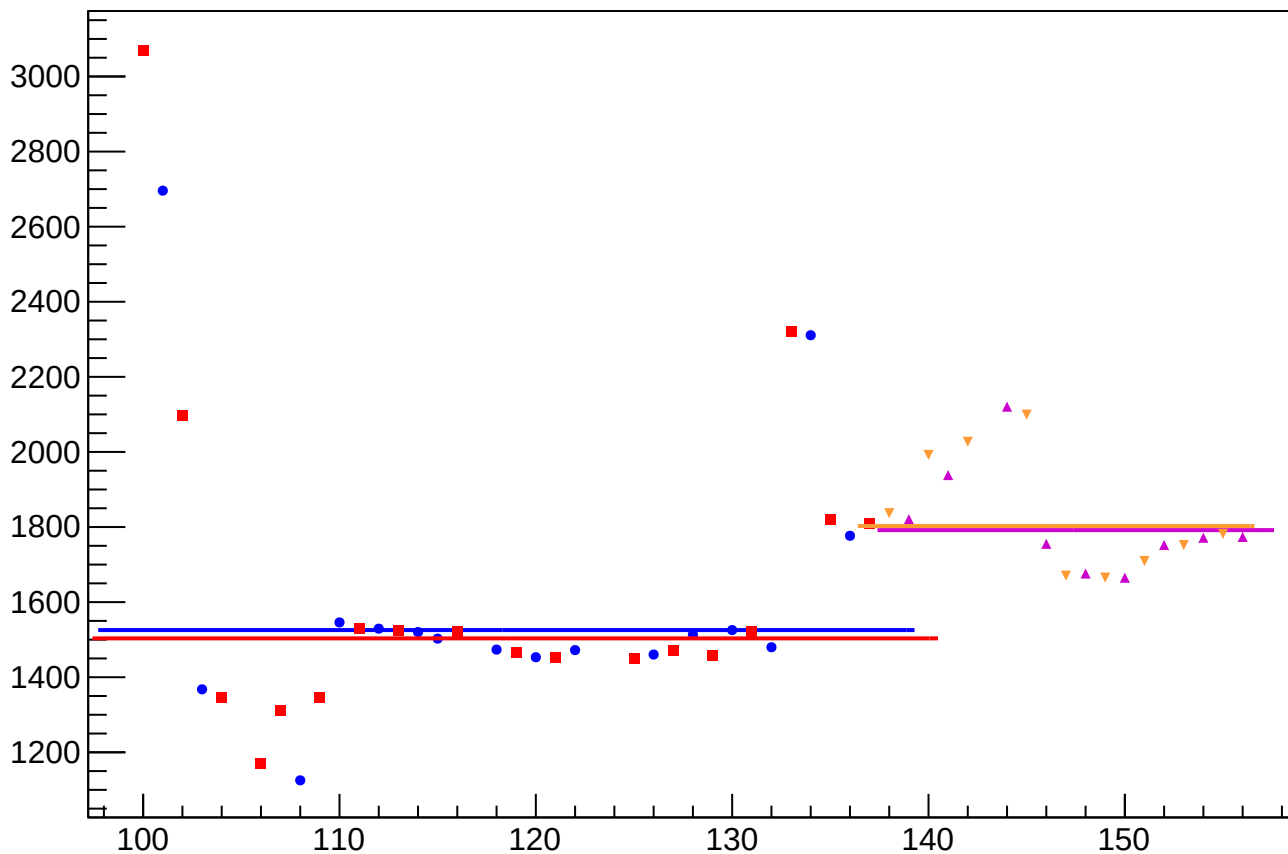
Right: -638.053+/-407.709 χ^2/NDF : 22.6/33

In: -959.438+/-429.465 χ^2/NDF : 6.9/24

Out: 460.017+/-439.615 χ^2/NDF : 39.5/26

All: -266.286+/-307.203 χ^2/NDF : 51.7/51

dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536 $\pm$ 0.409 χ^2 /NDF: 488328.2/15

Left Out: 1802.628 $\pm$ 0.482 χ^2 /NDF: 87241.8/8

Right Out: 1503.434 $\pm$ 0.407 χ^2 /NDF: 338507.3/17

Left In: 1791.763 $\pm$ 0.454 χ^2 /NDF: 74291.4/8

Left: 1796.865 $\pm$ 0.330 χ^2 /NDF: 161802.5/17

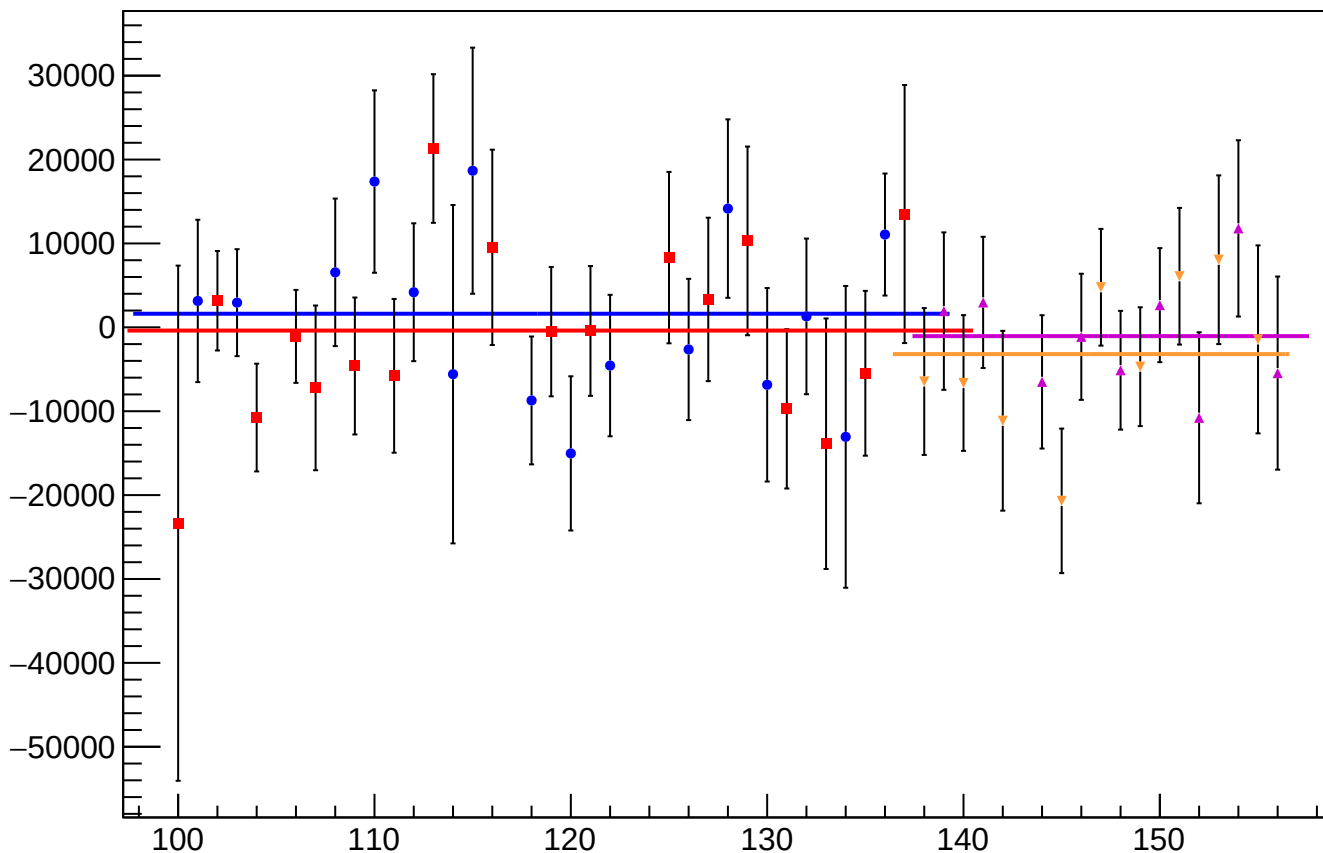
Right: 1514.425 $\pm$ 0.288 χ^2 /NDF: 828305.2/33

In: 1644.821 $\pm$ 0.304 χ^2 /NDF: 752686.1/24

Out: 1627.767 $\pm$ 0.311 χ^2 /NDF: 650815.3/26

All: 1636.491 $\pm$ 0.217 χ^2 /NDF: 1405041.6/51

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: -3193.336 $\pm$ 2839.597 χ^2 /NDF:8.9/8

Right Out: -385.942 $\pm$ 2060.867 χ^2 /NDF: 16.0/17

Left In: -1049.455 $\pm$ 2783.864 χ^2 /NDF:4.0/8

Left: -2100.150 $\pm$ 1987.901 χ^2 /NDF: 13.2/17

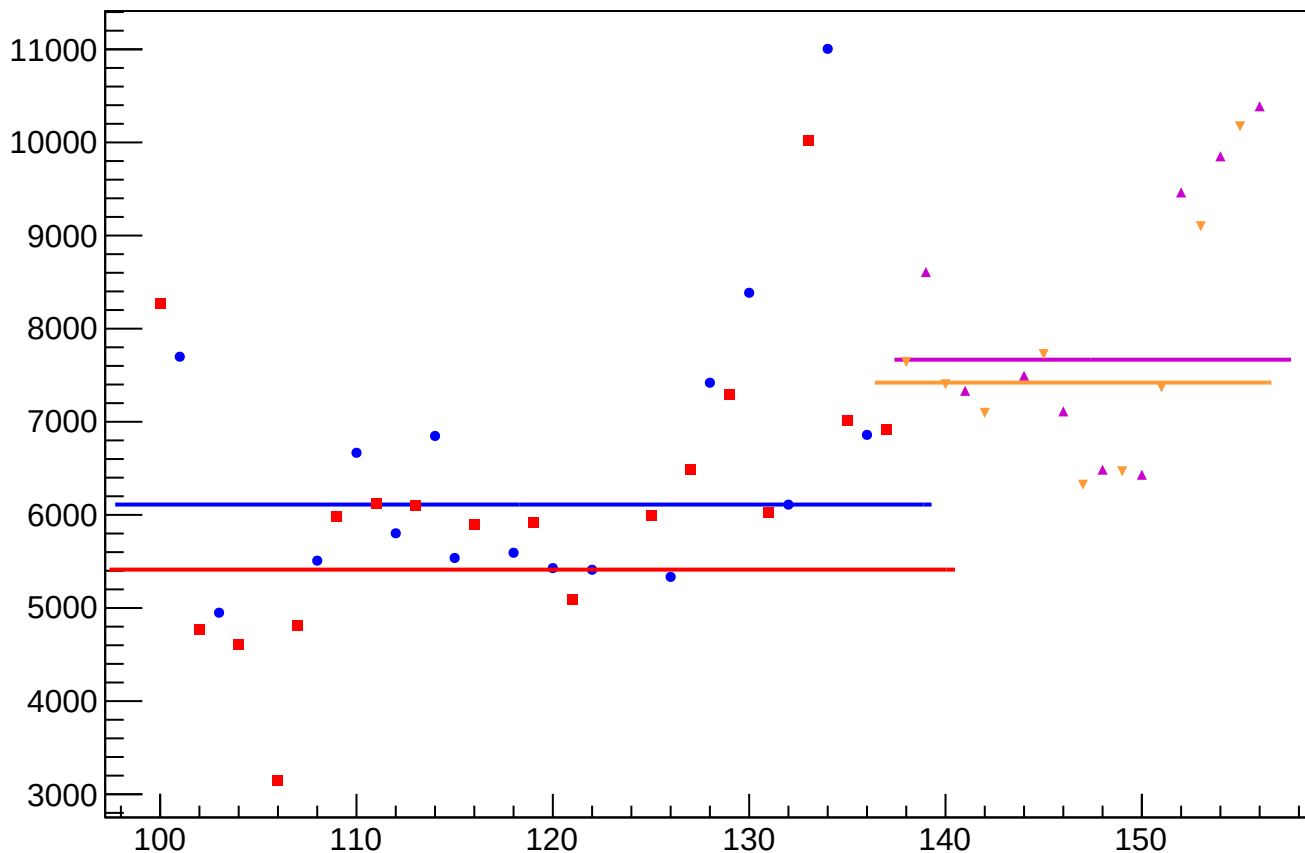
Right: 498.801 $\pm$ 1540.768 χ^2 /NDF: 30.7/33

In: 525.914 $\pm$ 1782.252 χ^2 /NDF:18.8/24

Out: -1354.506 $\pm$ 1667.897 χ^2 /NDF:25.6/26

All: -476.554 $\pm$ 1217.803 χ^2 /NDF: 45.0/51

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.037 $\pm$ 1.641 χ^2 /NDF: 471661.4/15

Left Out: 7420.651 $\pm$ 2.008 χ^2 /NDF: 268046.3/8

Right Out: 5412.276 $\pm$ 1.457 χ^2 /NDF: 821530.3/17

Left In: 7666.833 $\pm$ 1.968 χ^2 /NDF: 417631.6/8

Left: 7546.182 $\pm$ 1.406 χ^2 /NDF: 693343.1/17

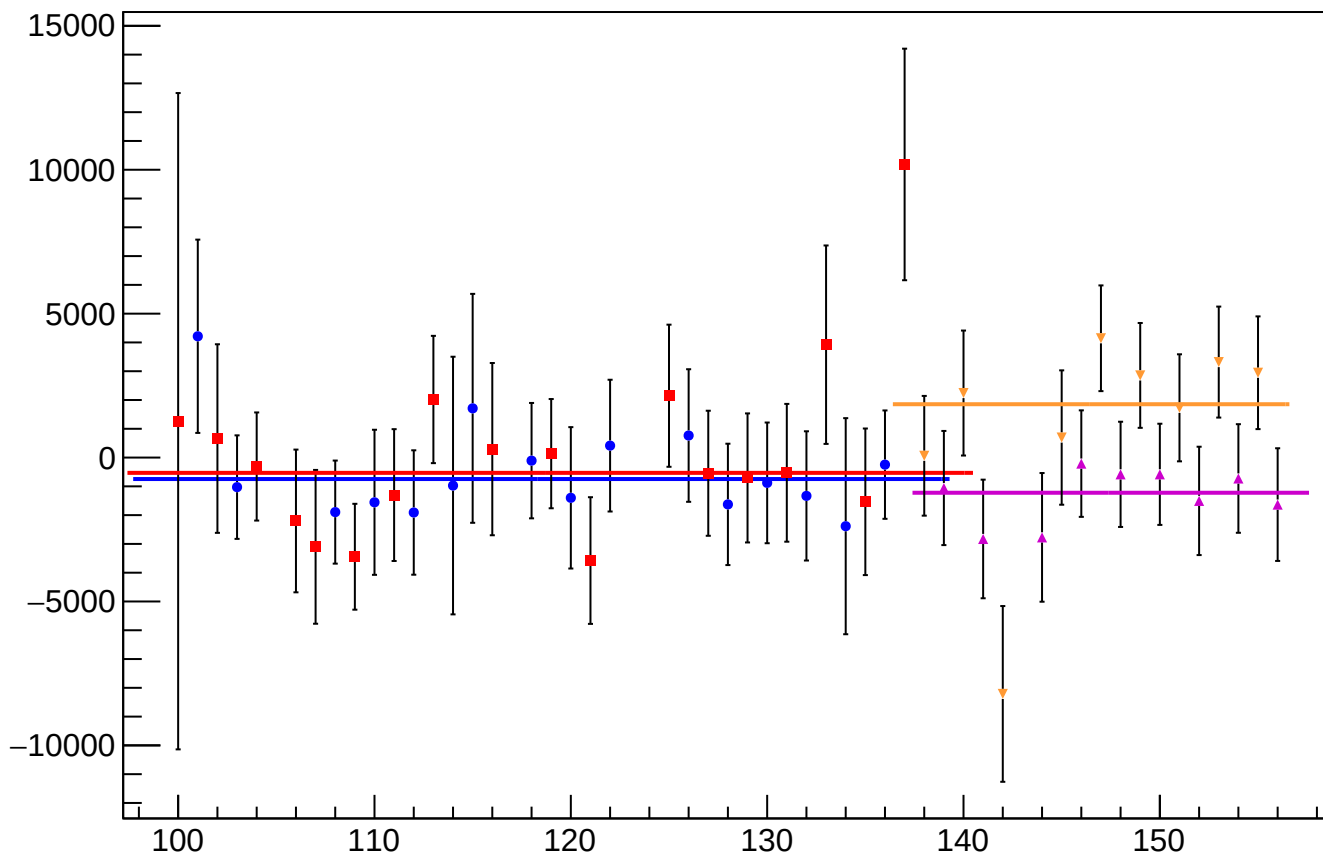
Right: 5720.463 $\pm$ 1.089 χ^2 /NDF: 1394599.9/33

In: 6748.705 $\pm$ 1.260 χ^2 /NDF: 1257922.4/24

Out: 6105.175 $\pm$ 1.179 χ^2 /NDF: 1744883.0/26

All: 6405.634 $\pm$ 0.861 χ^2 /NDF: 3141815.3/51

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: 1853.381+/-681.841 χ^2/NDF :14.6/8

Right Out: -531.302+/-575.115 χ^2/NDF : 17.7/17

Left In: -1222.465+/-641.596 χ^2/NDF :1.8/8

Left: 222.010+/-467.257 χ^2/NDF : 27.2/17

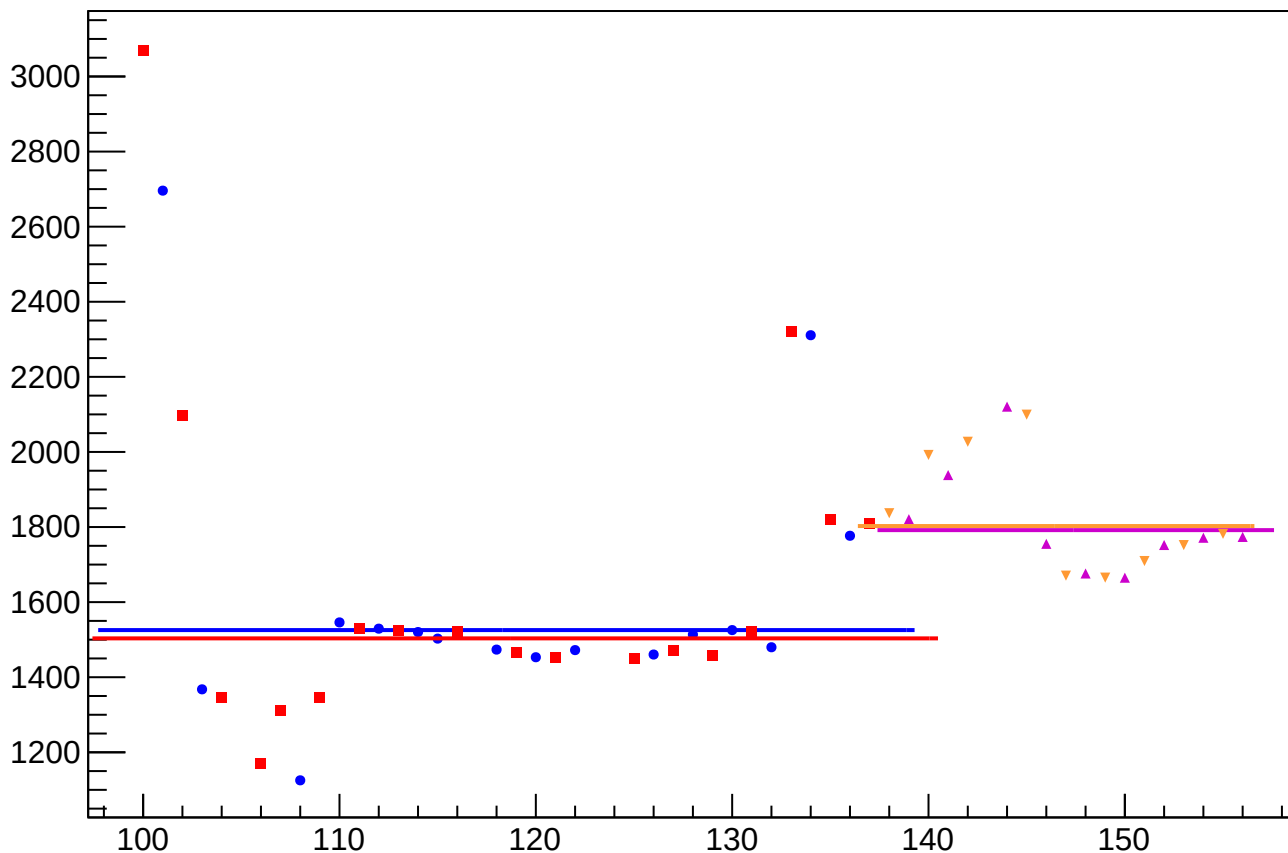
Right: -638.060+/-407.709 χ^2/NDF : 22.6/33

In: -959.438+/-429.466 χ^2/NDF :6.9/24

Out: 460.009+/-439.615 χ^2/NDF :39.5/26

All: -266.290+/-307.204 χ^2/NDF : 51.7/51

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536+/-0.409 χ^2/NDF : 488327.8/15

Left Out: 1802.630+/-0.482 χ^2/NDF : 87242.8/8

Right Out: 1503.435+/-0.407 χ^2/NDF : 338507.7/17

Left In: 1791.765+/-0.454 χ^2/NDF : 74291.6/8

Left: 1796.867+/-0.330 χ^2/NDF : 161803.7/17

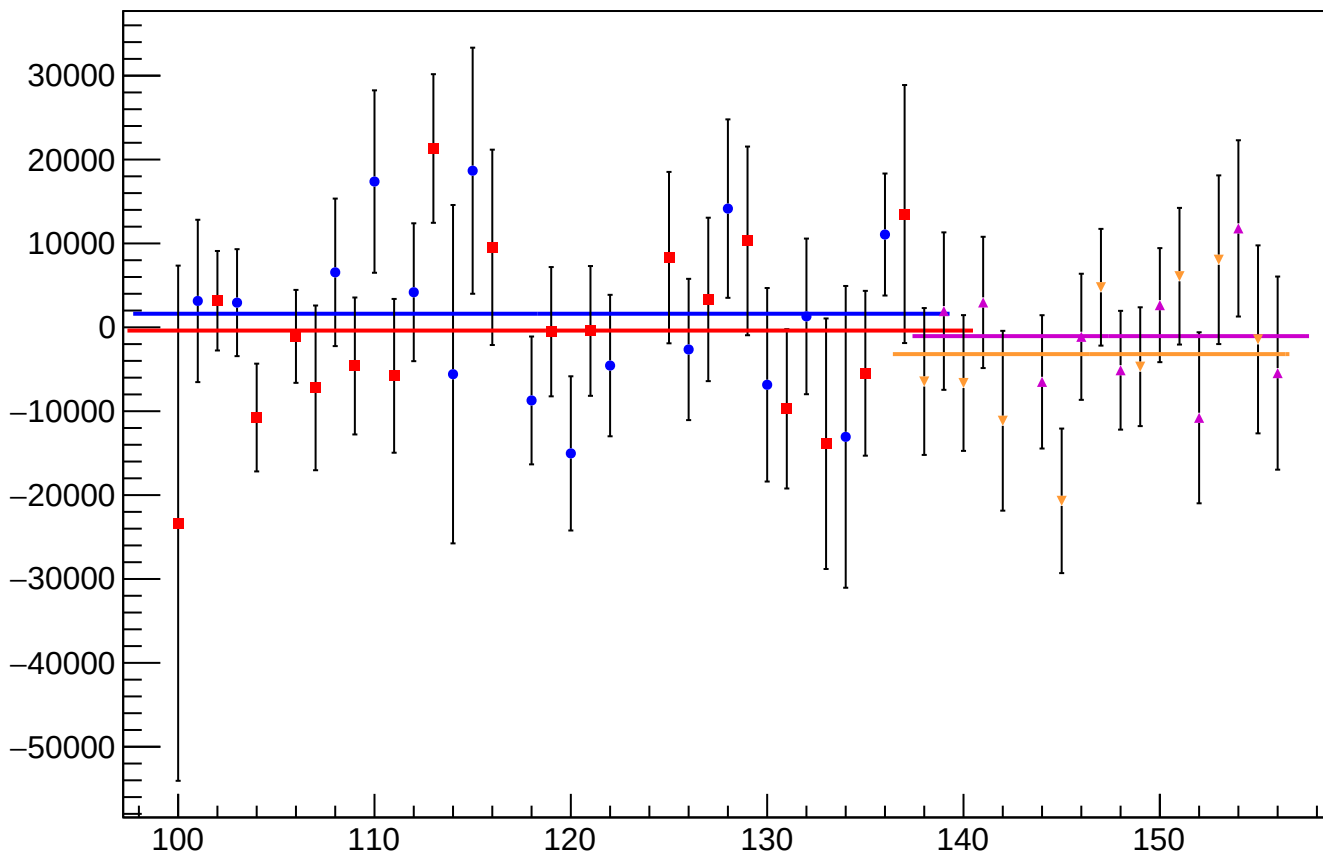
Right: 1514.425+/-0.288 χ^2/NDF : 828305.2/33

In: 1644.822+/-0.304 χ^2/NDF : 752688.8/24

Out: 1627.767+/-0.311 χ^2/NDF : 650818.9/26

All: 1636.492+/-0.217 χ^2/NDF : 1405048.1/51

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: -3193.337 $\pm$ 2839.600 χ^2 /NDF:8.9/8

Right Out: -385.948 $\pm$ 2060.863 χ^2 /NDF: 16.0/17

Left In: -1049.450 $\pm$ 2783.867 χ^2 /NDF:4.0/8

Left: -2100.148 $\pm$ 1987.903 χ^2 /NDF: 13.2/17

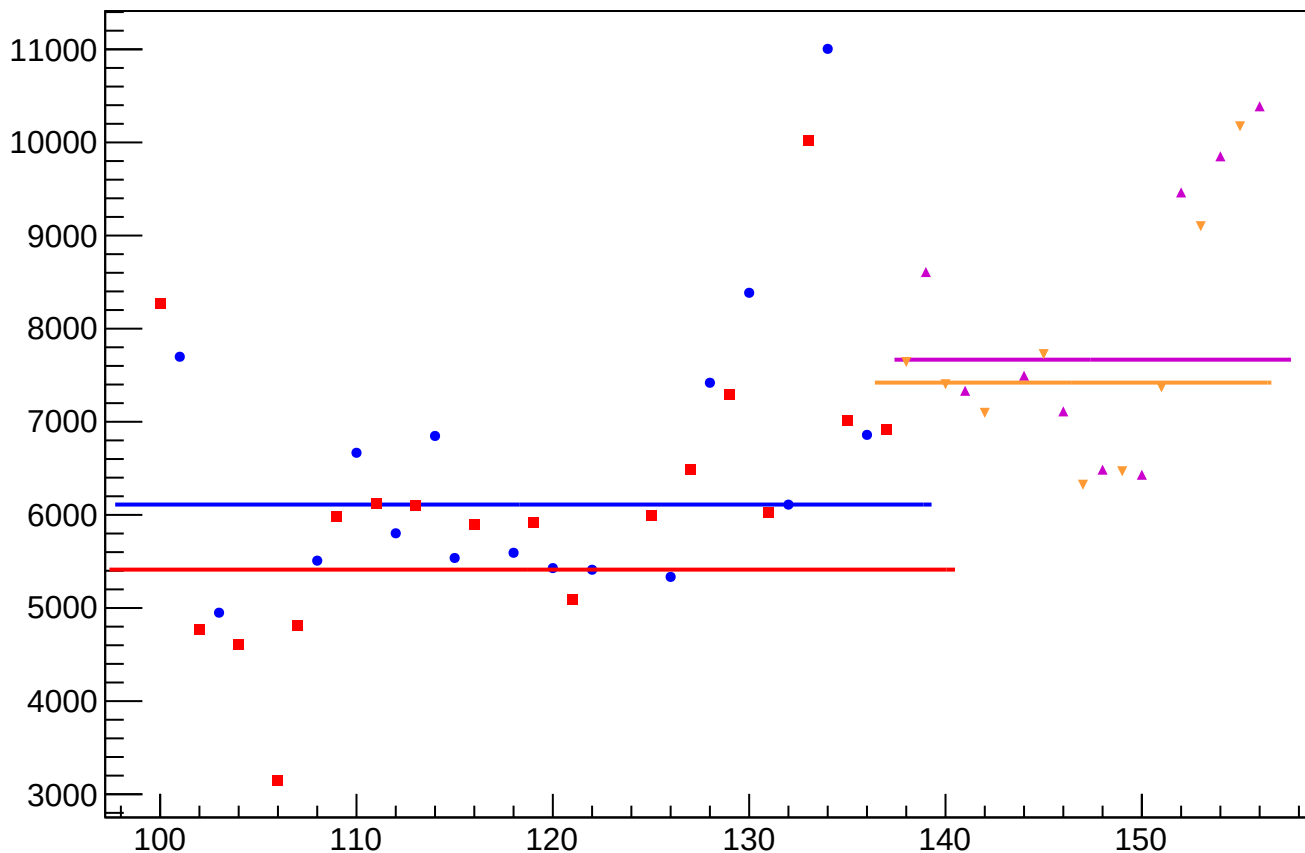
Right: 498.789 $\pm$ 1540.764 χ^2 /NDF: 30.7/33

In: 525.909 $\pm$ 1782.251 χ^2 /NDF:18.8/24

Out: -1354.507 $\pm$ 1667.895 χ^2 /NDF:25.6/26

All: -476.557 $\pm$ 1217.802 χ^2 /NDF: 45.0/51

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.023+/-1.641 χ^2/NDF : 471663.6/15

Left Out: 7420.659+/-2.008 χ^2/NDF : 268046.9/8

Right Out: 5412.265+/-1.457 χ^2/NDF : 821530.5/17

Left In: 7666.842+/-1.968 χ^2/NDF : 417631.9/8

Left: 7546.190+/-1.406 χ^2/NDF : 693344.0/17

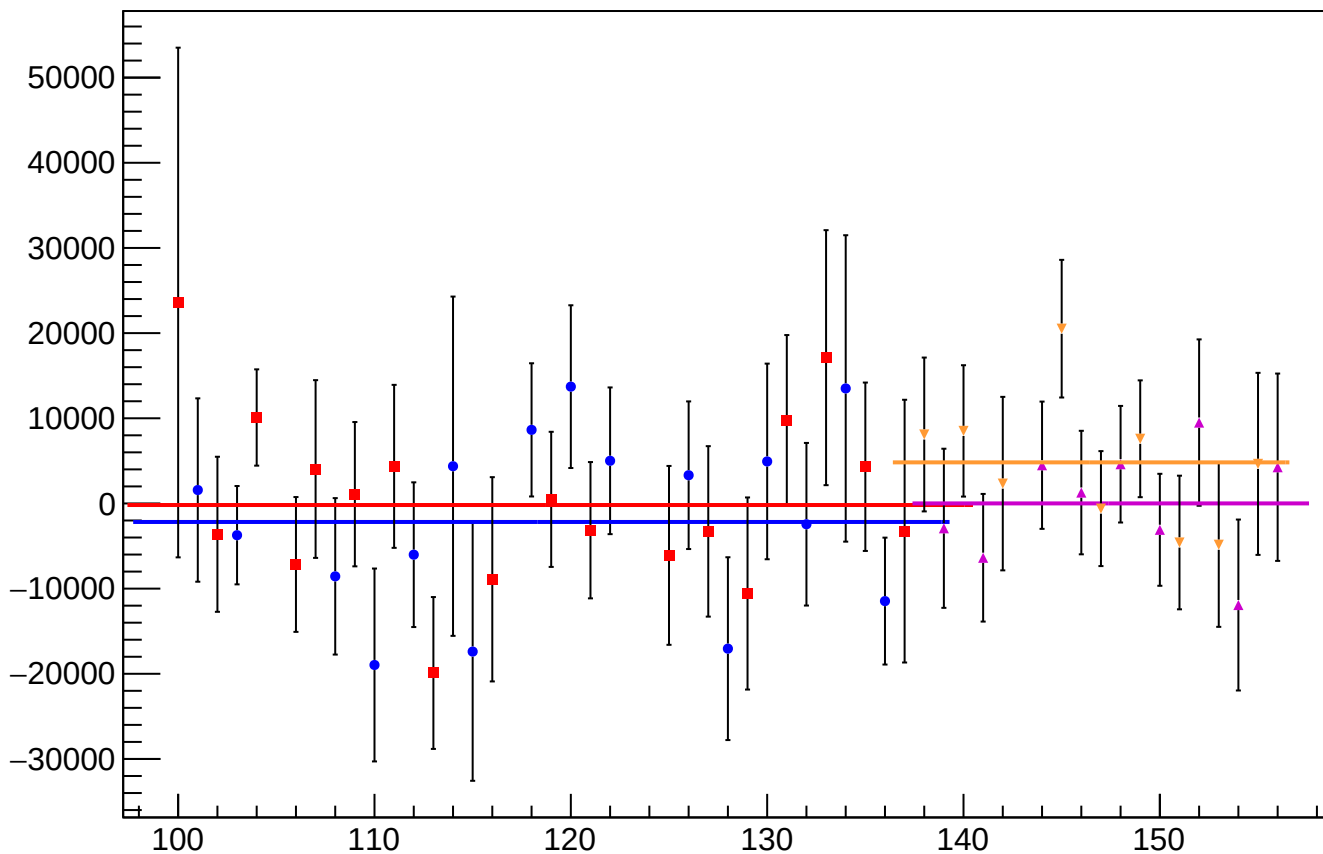
Right: 5720.451+/-1.089 χ^2/NDF : 1394602.1/33

In: 6748.699+/-1.260 χ^2/NDF : 1257935.7/24

Out: 6105.167+/-1.179 χ^2/NDF : 1744896.7/26

All: 6405.626+/-0.861 χ^2/NDF : 3141842.9/51

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: 4823.341 ± 2742.110 $\chi^2/\text{NDF}: 7.4/8$

Right Out: -183.559 ± 2228.883 $\chi^2/\text{NDF}: 14.7/17$

Left In: 5.925 ± 2678.760 $\chi^2/\text{NDF}: 4.4/8$

Left: 2358.343 ± 1916.175 $\chi^2/\text{NDF}: 13.4/17$

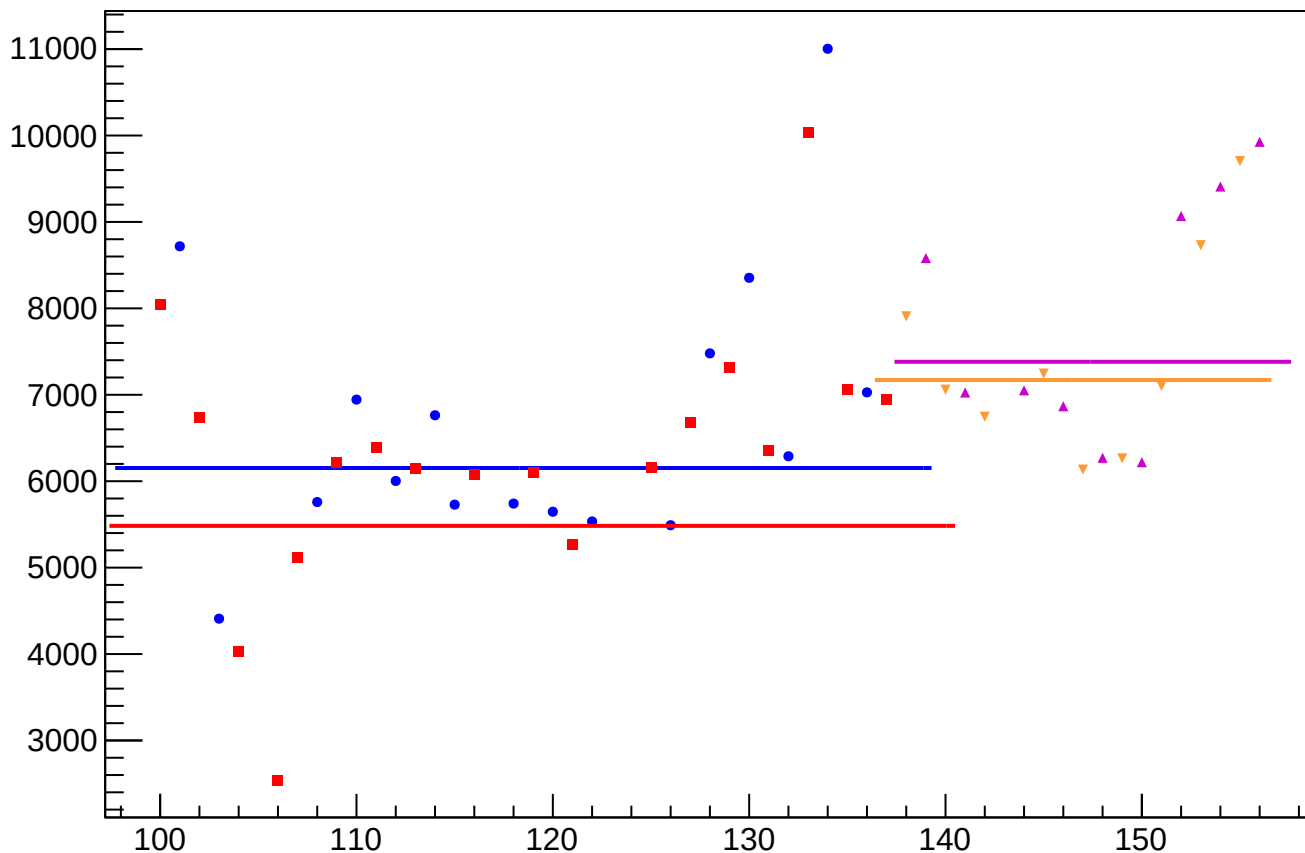
Right: -1127.176 ± 1616.419 $\chi^2/\text{NDF}: 29.6/33$

In: -1227.038 ± 1765.572 $\chi^2/\text{NDF}: 19.4/24$

Out: 1808.409 ± 1729.584 $\chi^2/\text{NDF}: 24.1/26$

All: 321.937 ± 1235.528 $\chi^2/\text{NDF}: 45.0/51$

asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 6152.690 $\pm$ 1.660 χ^2/NDF : 624026.7/15

Left Out: 7171.028 $\pm$ 1.939 χ^2/NDF : 264268.3/8

Right Out: 5483.337 $\pm$ 1.519 χ^2/NDF : 1148712.9/17

Left In: 7381.908 $\pm$ 1.894 χ^2/NDF : 415076.1/8

Left: 7278.932 $\pm$ 1.355 χ^2/NDF : 685396.9/17

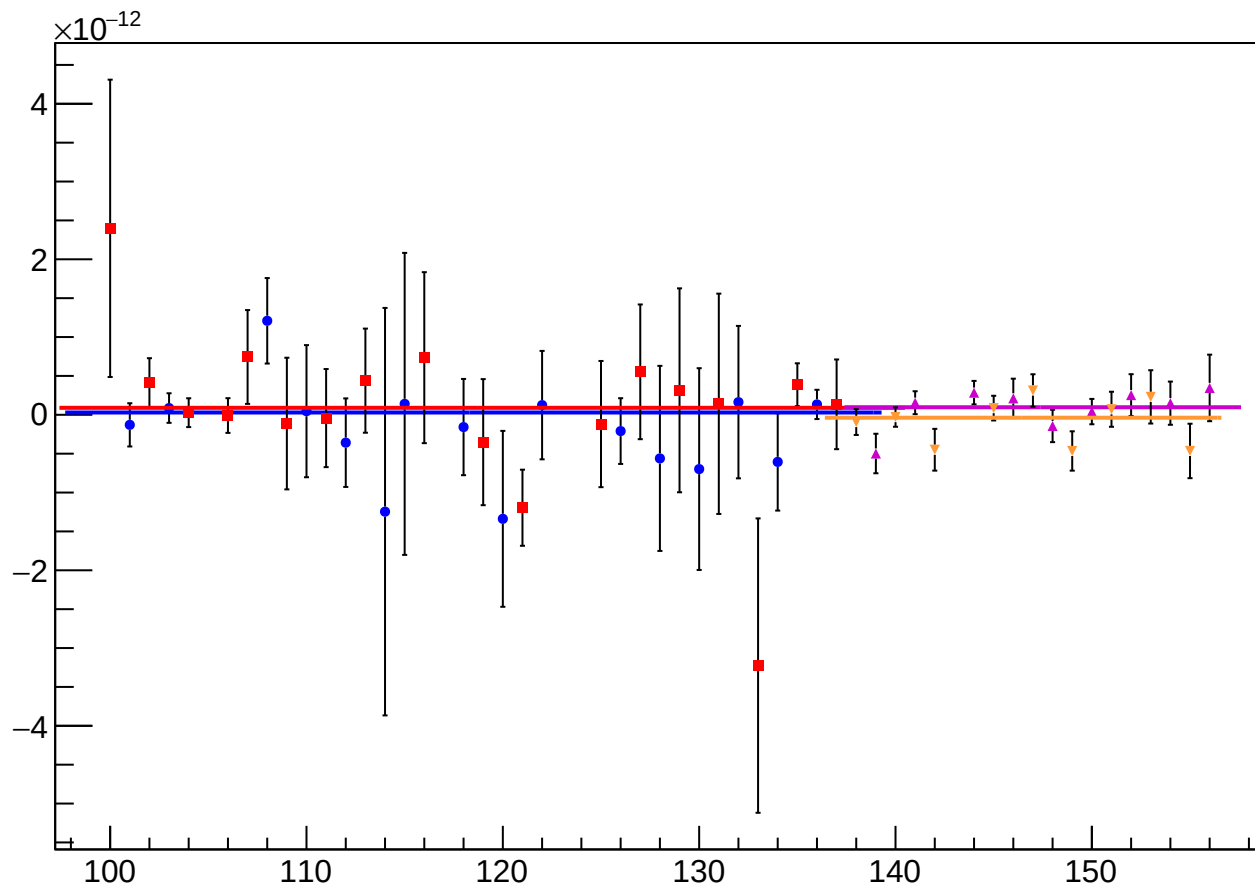
Right: 5788.476 $\pm$ 1.121 χ^2/NDF : 1861205.2/33

In: 6686.675 $\pm$ 1.248 χ^2/NDF : 1277291.6/24

Out: 6125.435 $\pm$ 1.196 χ^2/NDF : 1882351.5/26

All: 6394.015 $\pm$ 0.864 χ^2/NDF : 3265027.1/51

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 : 11.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 16.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 9.6/8

Left: 0.000+/-0.000 χ^2/NDF : 22.6/17

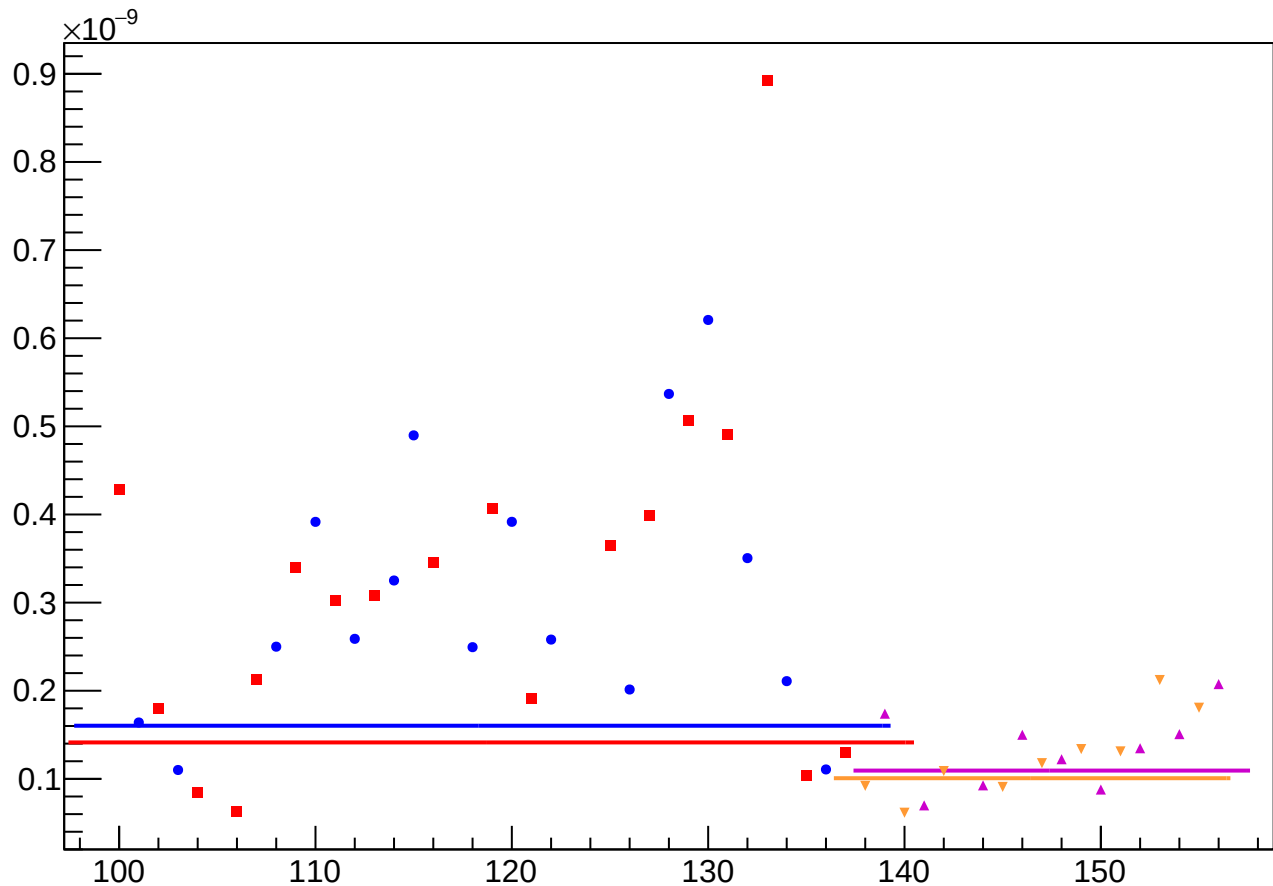
Right: 0.000+/-0.000 χ^2/NDF : 26.2/33

In: 0.000+/-0.000 χ^2/NDF : 19.4/24

Out: -0.000+/-0.000 χ^2/NDF : 28.6/26

All: 0.000+/-0.000 χ^2/NDF : 49.0/51

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 : 611740.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2165946.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 558219.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1186513.4/17

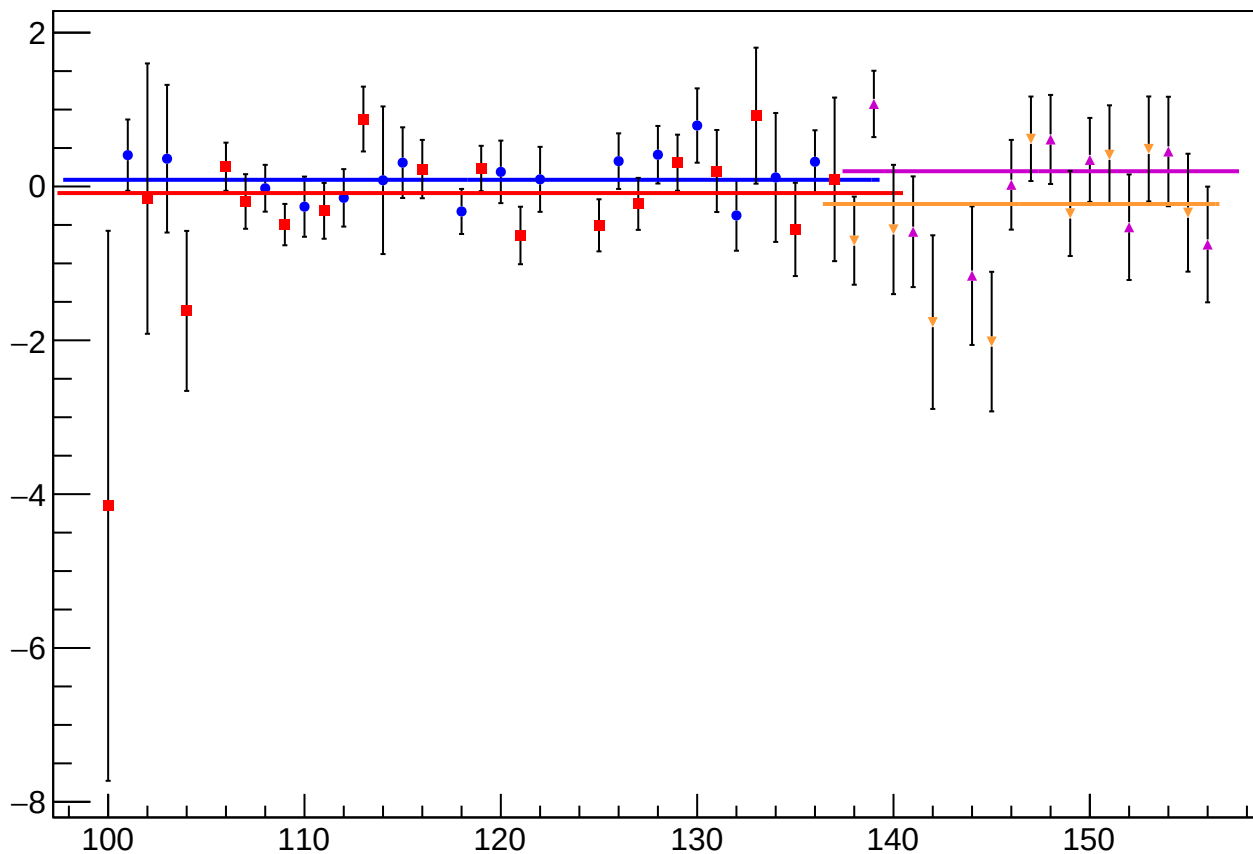
Right: 0.000+/-0.000 χ^2/NDF : 3529311.8/33

In: 0.000+/-0.000 χ^2/NDF : 2223547.8/24

Out: 0.000+/-0.000 χ^2/NDF : 2999084.2/26

All: 0.000+/-0.000 χ^2/NDF : 5269299.2/51

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: -0.228 ± 0.228 $\chi^2/\text{NDF}: 11.1/8$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.198 ± 0.205 $\chi^2/\text{NDF}: 11.1/8$

Left: 0.007 ± 0.153 $\chi^2/\text{NDF}: 24.2/17$

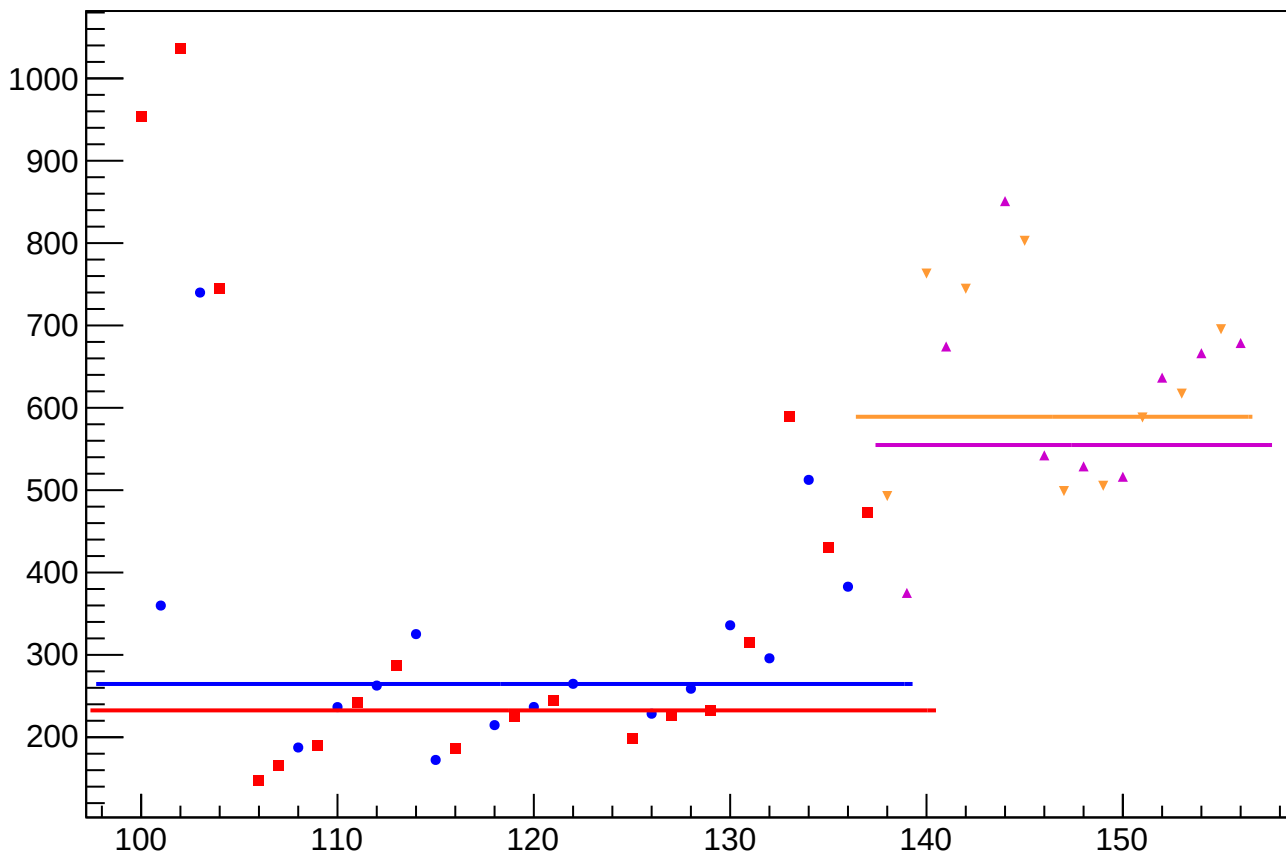
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.110 ± 0.094 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.108 ± 0.089 $\chi^2/\text{NDF}: 33.3/26$

All: -0.004 ± 0.065 $\chi^2/\text{NDF}: 56.3/51$

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2 /NDF: 1284007.6/15

Left Out: 589.142 $\pm$ 0.161 χ^2 /NDF: 432588.6/8

Right Out: 232.596 $\pm$ 0.069 χ^2 /NDF: 2032662.7/17

Left In: 554.831 $\pm$ 0.145 χ^2 /NDF: 764854.9/8

Left: 570.241 $\pm$ 0.108 χ^2 /NDF: 1222489.5/17

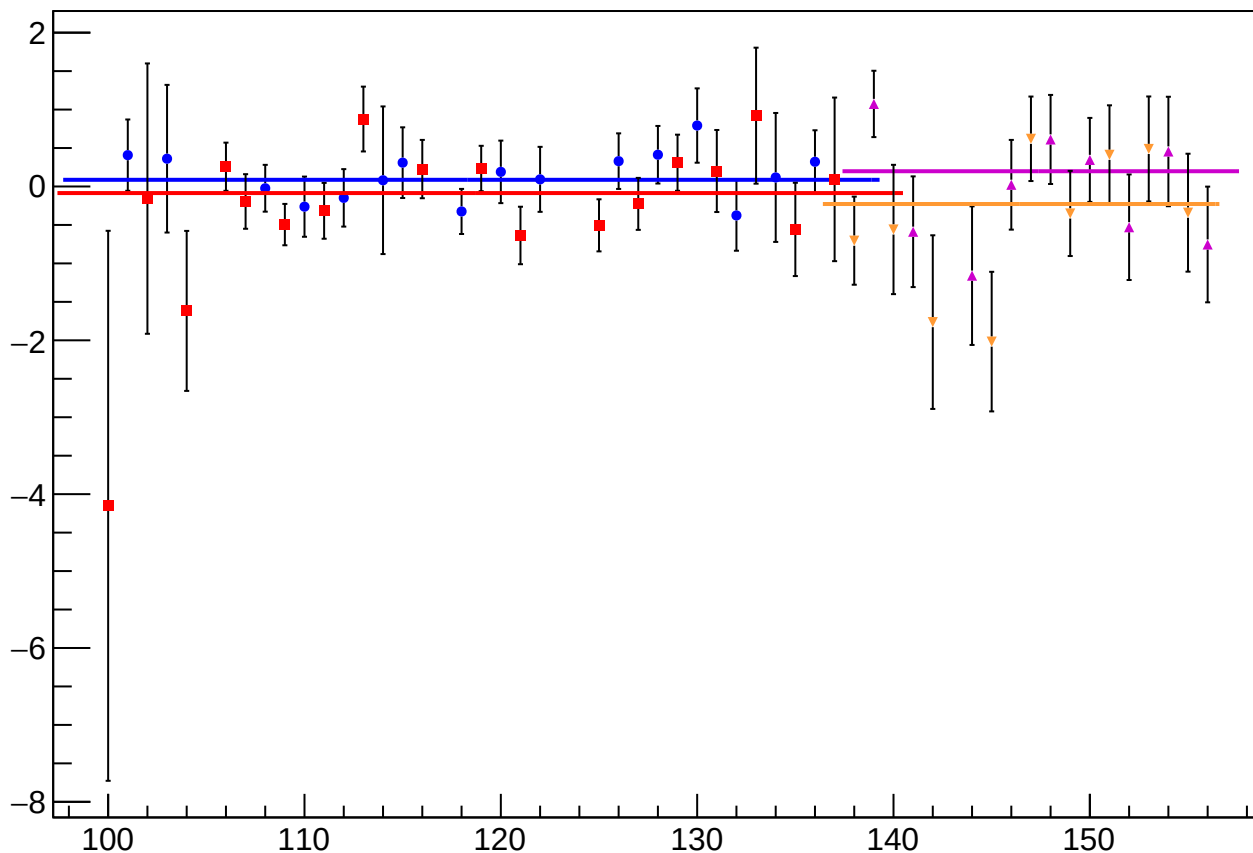
Right: 247.407 $\pm$ 0.050 χ^2 /NDF: 3416944.1/33

In: 324.815 $\pm$ 0.066 χ^2 /NDF: 5210199.6/24

Out: 287.738 $\pm$ 0.063 χ^2 /NDF: 6615512.0/26

All: 305.454 $\pm$ 0.046 χ^2 /NDF: 11989742.6/53

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: -0.228 ± 0.228 $\chi^2/\text{NDF}: 11.1/8$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.198 ± 0.205 $\chi^2/\text{NDF}: 11.1/8$

Left: 0.007 ± 0.153 $\chi^2/\text{NDF}: 24.2/17$

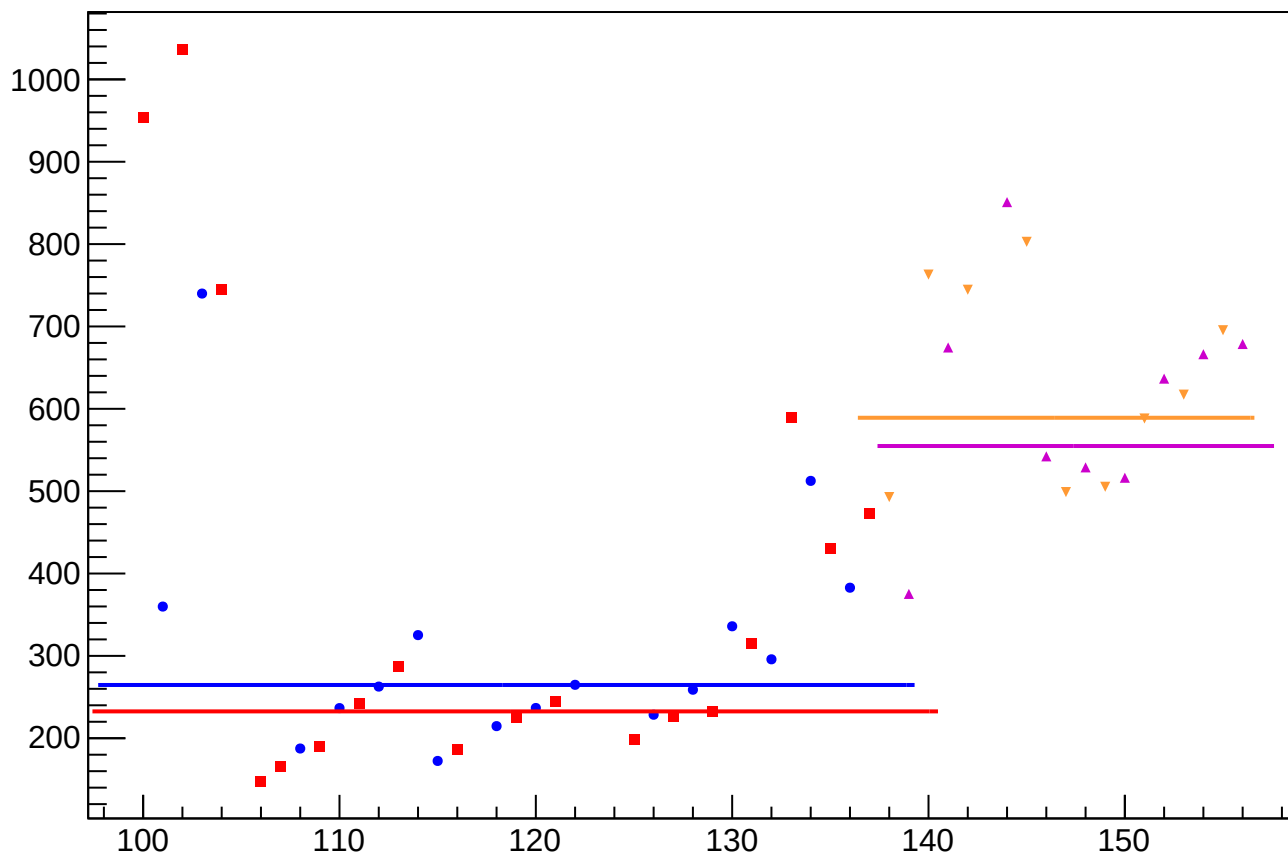
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.110 ± 0.094 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.108 ± 0.089 $\chi^2/\text{NDF}: 33.3/26$

All: -0.004 ± 0.065 $\chi^2/\text{NDF}: 56.3/51$

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667+/-0.074 χ^2/NDF : 1284007.6/15

Left Out: 589.142+/-0.161 χ^2/NDF : 432588.6/8

Right Out: 232.596+/-0.069 χ^2/NDF : 2032662.7/17

Left In: 554.831+/-0.145 χ^2/NDF : 764854.9/8

Left: 570.241+/-0.108 χ^2/NDF : 1222489.5/17

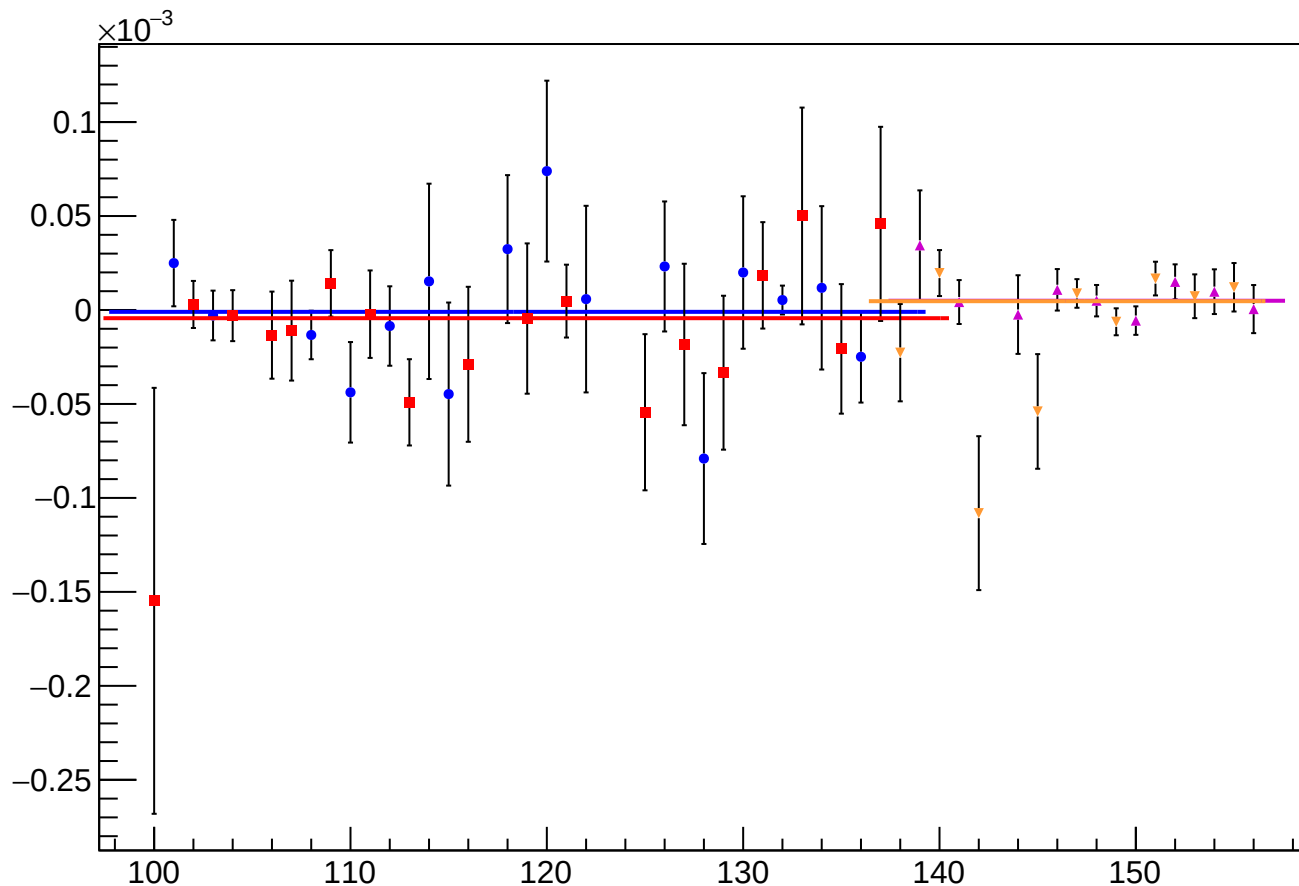
Right: 247.407+/-0.050 χ^2/NDF : 3416944.1/33

In: 324.815+/-0.066 χ^2/NDF : 5210199.6/24

Out: 287.738+/-0.063 χ^2/NDF : 6615512.0/26

All: 305.454+/-0.046 χ^2/NDF : 11989742.6/53

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 : 18.7/8

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.6/17

Left In: 0.000 ± 0.000 χ^2/NDF : 4.8/8

Left: 0.000 ± 0.000 χ^2/NDF : 23.5/17

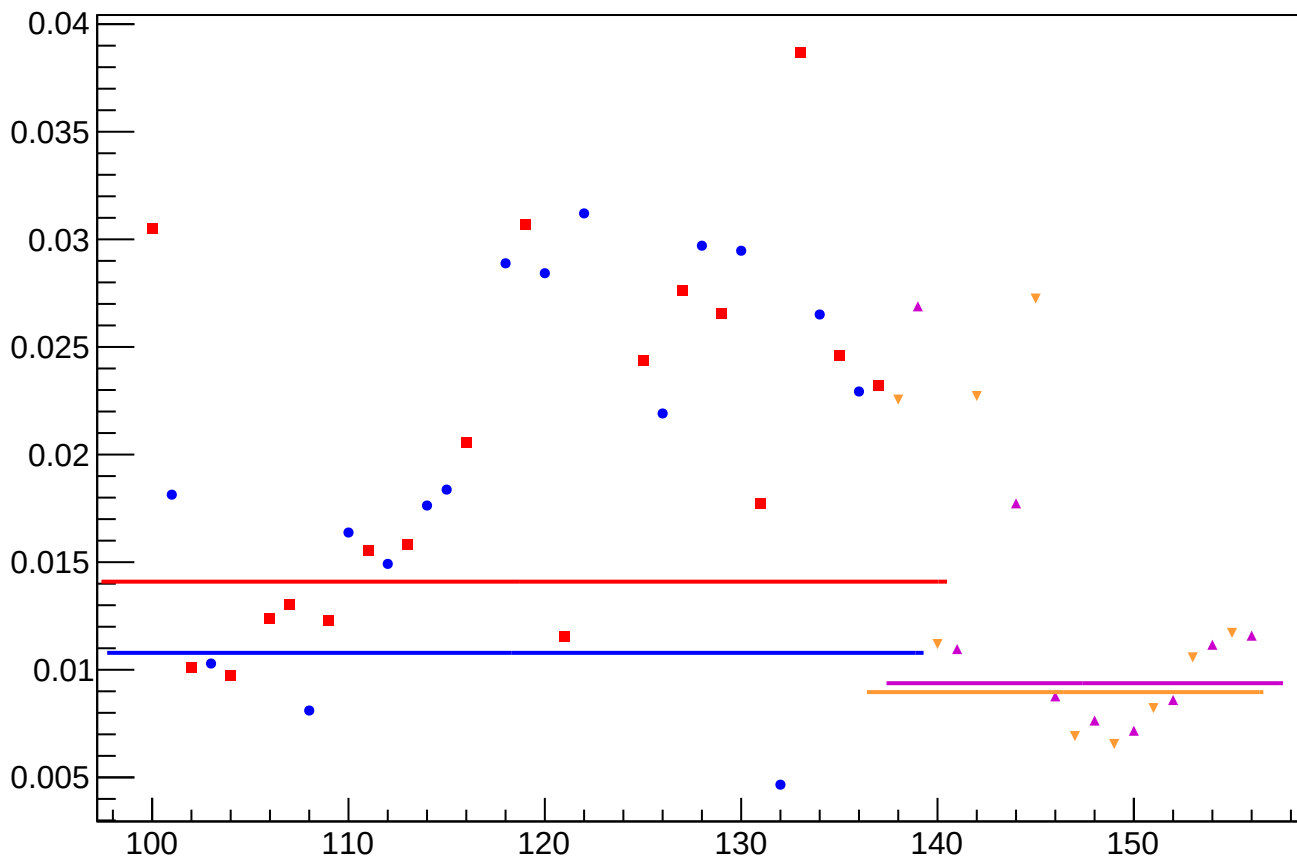
Right: -0.000 ± 0.000 χ^2/NDF : 27.2/33

In: 0.000 ± 0.000 χ^2/NDF : 20.1/24

Out: 0.000 ± 0.000 χ^2/NDF : 33.0/26

All: 0.000 ± 0.000 χ^2/NDF : 53.2/51

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: 0.009+/-0.000 χ^2/NDF : 2075422.0/8

Right Out: 0.014+/-0.000 χ^2/NDF : 2084942.5/17

Left In: 0.009+/-0.000 χ^2/NDF : 1453202.3/8

Left: 0.009+/-0.000 χ^2/NDF : 3541239.4/17

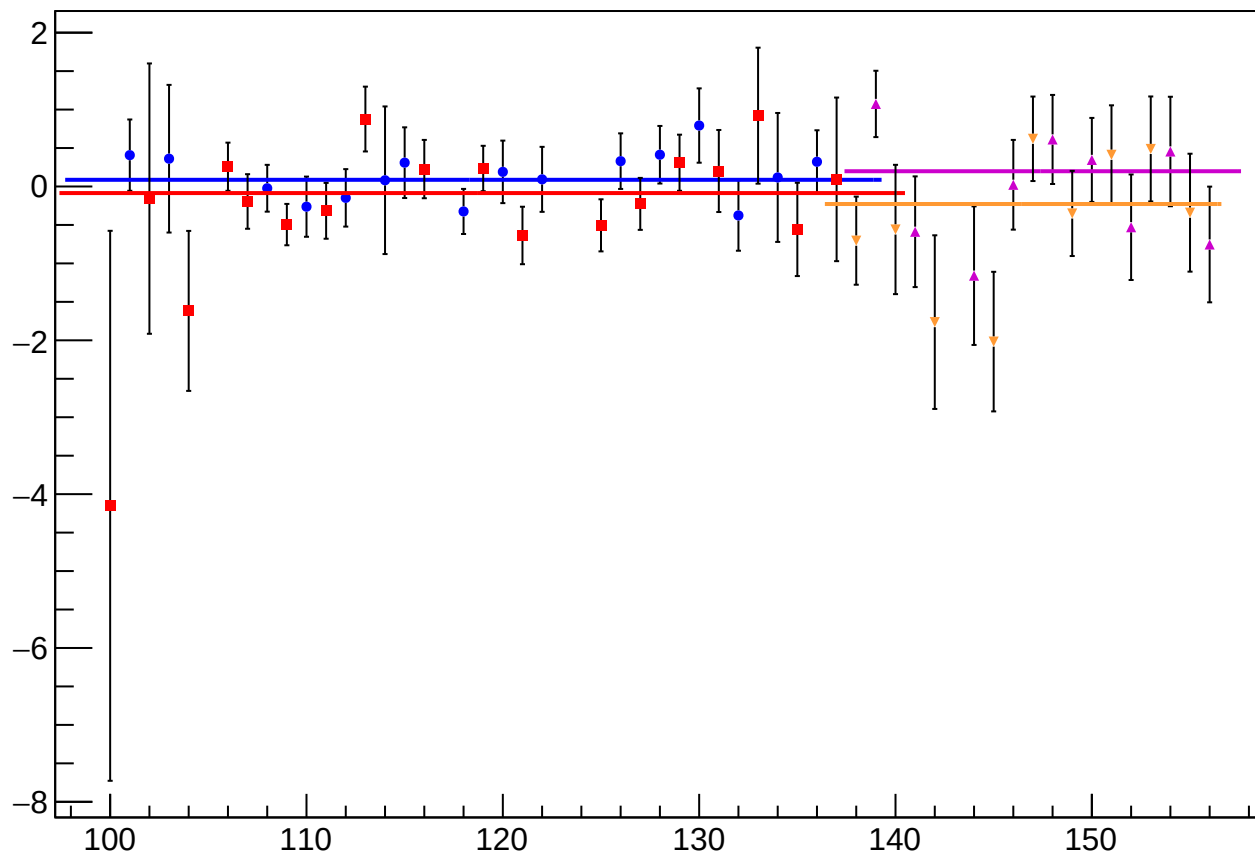
Right: 0.012+/-0.000 χ^2/NDF : 7045946.1/33

In: 0.010+/-0.000 χ^2/NDF : 6138218.2/24

Out: 0.010+/-0.000 χ^2/NDF : 5289213.6/26

All: 0.010+/-0.000 χ^2/NDF : 11468383.7/51

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: -0.228 ± 0.228 $\chi^2/\text{NDF}: 11.1/8$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.198 ± 0.205 $\chi^2/\text{NDF}: 11.1/8$

Left: 0.007 ± 0.153 $\chi^2/\text{NDF}: 24.2/17$

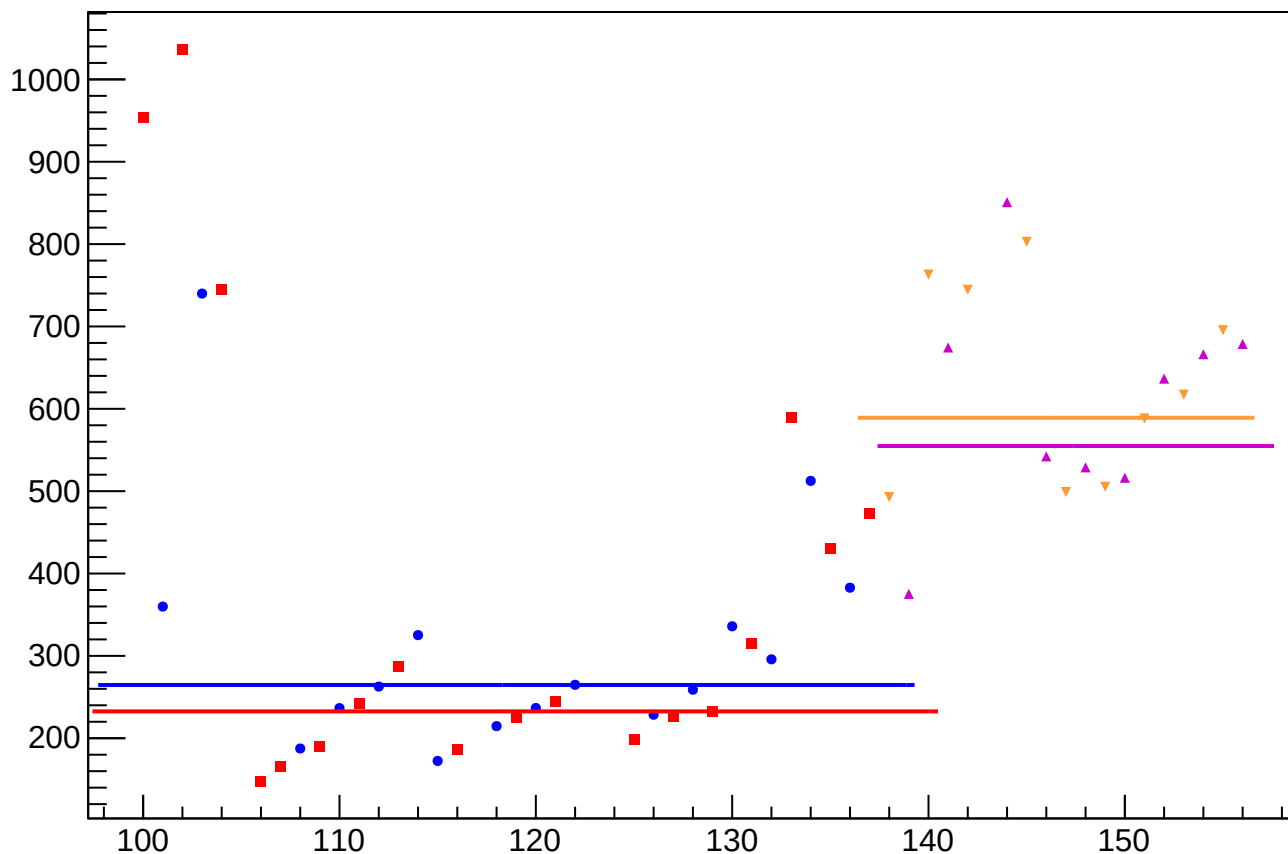
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.110 ± 0.094 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.108 ± 0.089 $\chi^2/\text{NDF}: 33.3/26$

All: -0.004 ± 0.065 $\chi^2/\text{NDF}: 56.3/51$

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667+/-0.074 χ^2/NDF : 1283977.8/15

Left Out: 589.148+/-0.161 χ^2/NDF : 432592.6/8

Right Out: 232.596+/-0.069 χ^2/NDF : 2032655.0/17

Left In: 554.838+/-0.145 χ^2/NDF : 764825.4/8

Left: 570.248+/-0.108 χ^2/NDF : 1222461.0/17

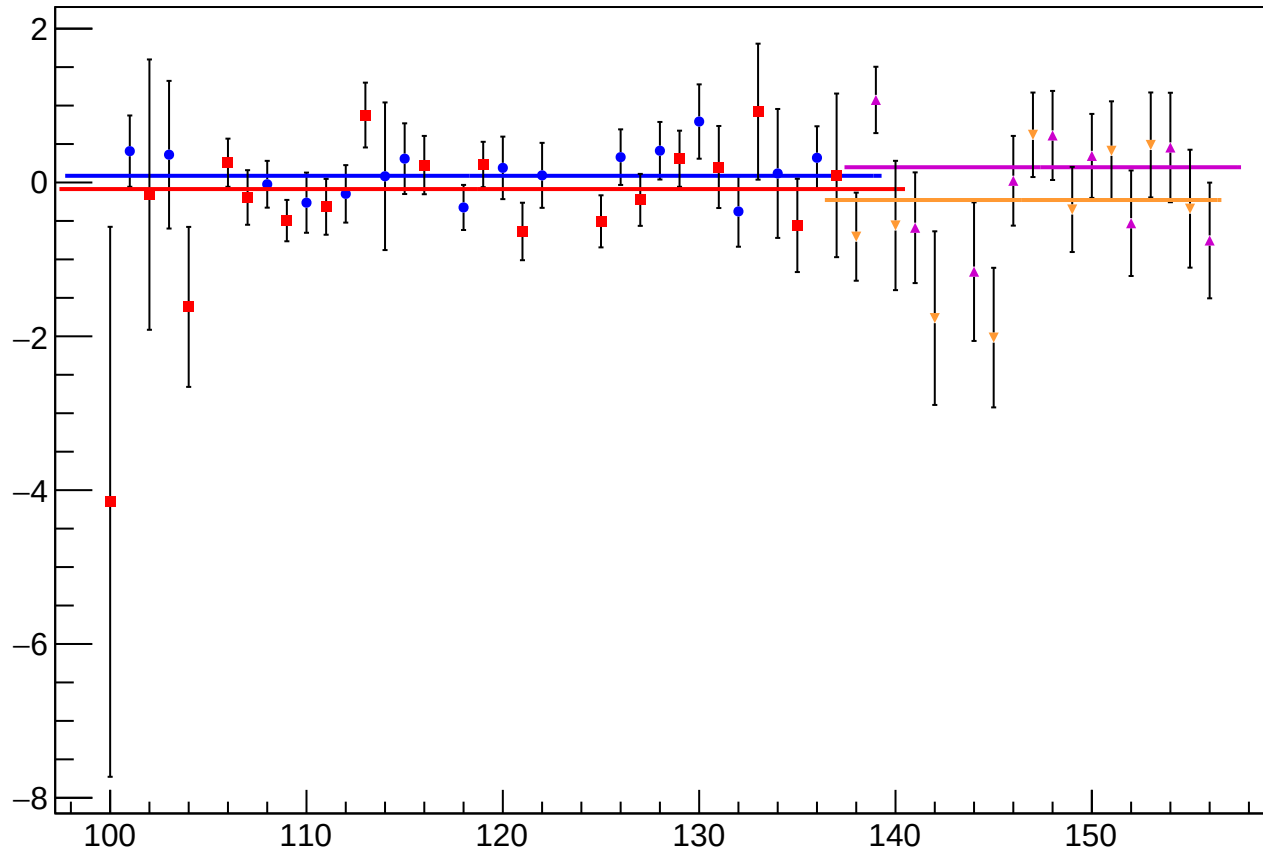
Right: 247.407+/-0.050 χ^2/NDF : 3416901.3/33

In: 324.815+/-0.066 χ^2/NDF : 5210248.2/24

Out: 287.739+/-0.063 χ^2/NDF : 6615557.7/26

All: 305.455+/-0.046 χ^2/NDF : 11989830.1/51

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: -0.228 ± 0.228 $\chi^2/\text{NDF}: 11.1/8$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.198 ± 0.205 $\chi^2/\text{NDF}: 11.1/8$

Left: 0.007 ± 0.153 $\chi^2/\text{NDF}: 24.2/17$

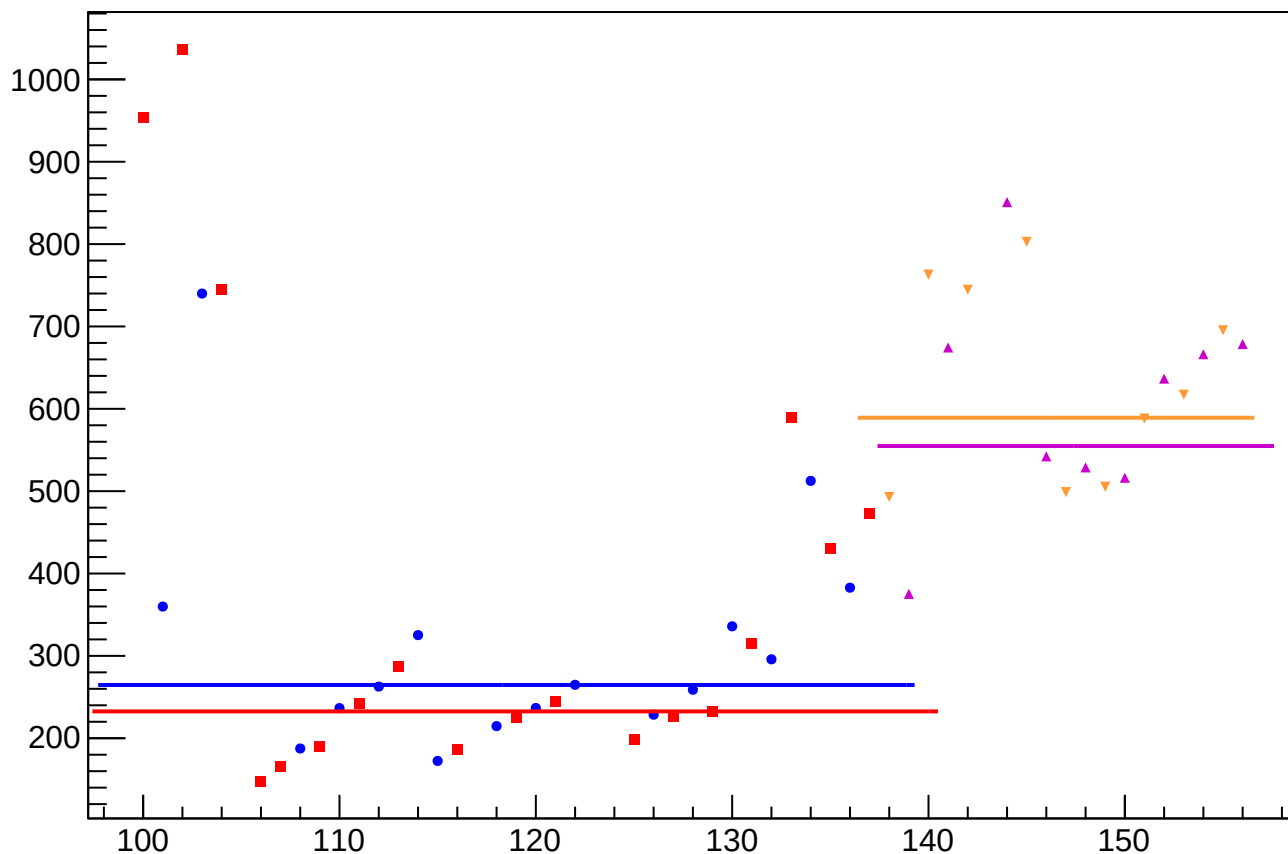
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.110 ± 0.094 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.108 ± 0.089 $\chi^2/\text{NDF}: 33.3/26$

All: -0.004 ± 0.065 $\chi^2/\text{NDF}: 56.3/51$

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667+/-0.074 χ^2/NDF : 1283977.8/15

Left Out: 589.148+/-0.161 χ^2/NDF : 432592.6/8

Right Out: 232.596+/-0.069 χ^2/NDF : 2032655.0/17

Left In: 554.838+/-0.145 χ^2/NDF : 764825.4/8

Left: 570.248+/-0.108 χ^2/NDF : 1222461.0/17

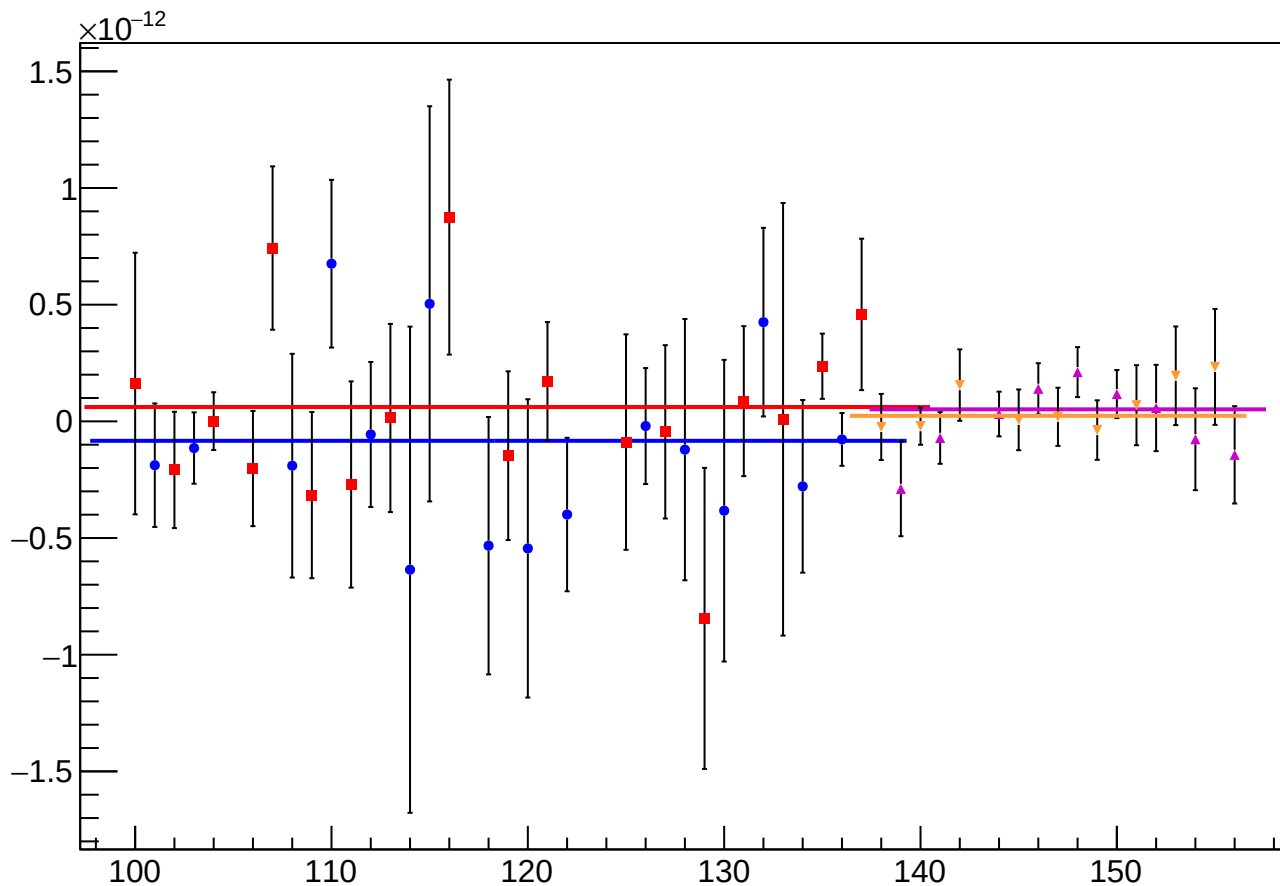
Right: 247.407+/-0.050 χ^2/NDF : 3416901.3/33

In: 324.815+/-0.066 χ^2/NDF : 5210248.2/24

Out: 287.739+/-0.063 χ^2/NDF : 6615557.7/26

All: 305.455+/-0.046 χ^2/NDF : 11989830.1/51

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 9.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 2.9/8

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.7/17

Left In: 0.000 ± 0.000 χ^2/NDF : 8.6/8

Left: 0.000 ± 0.000 χ^2/NDF : 11.6/17

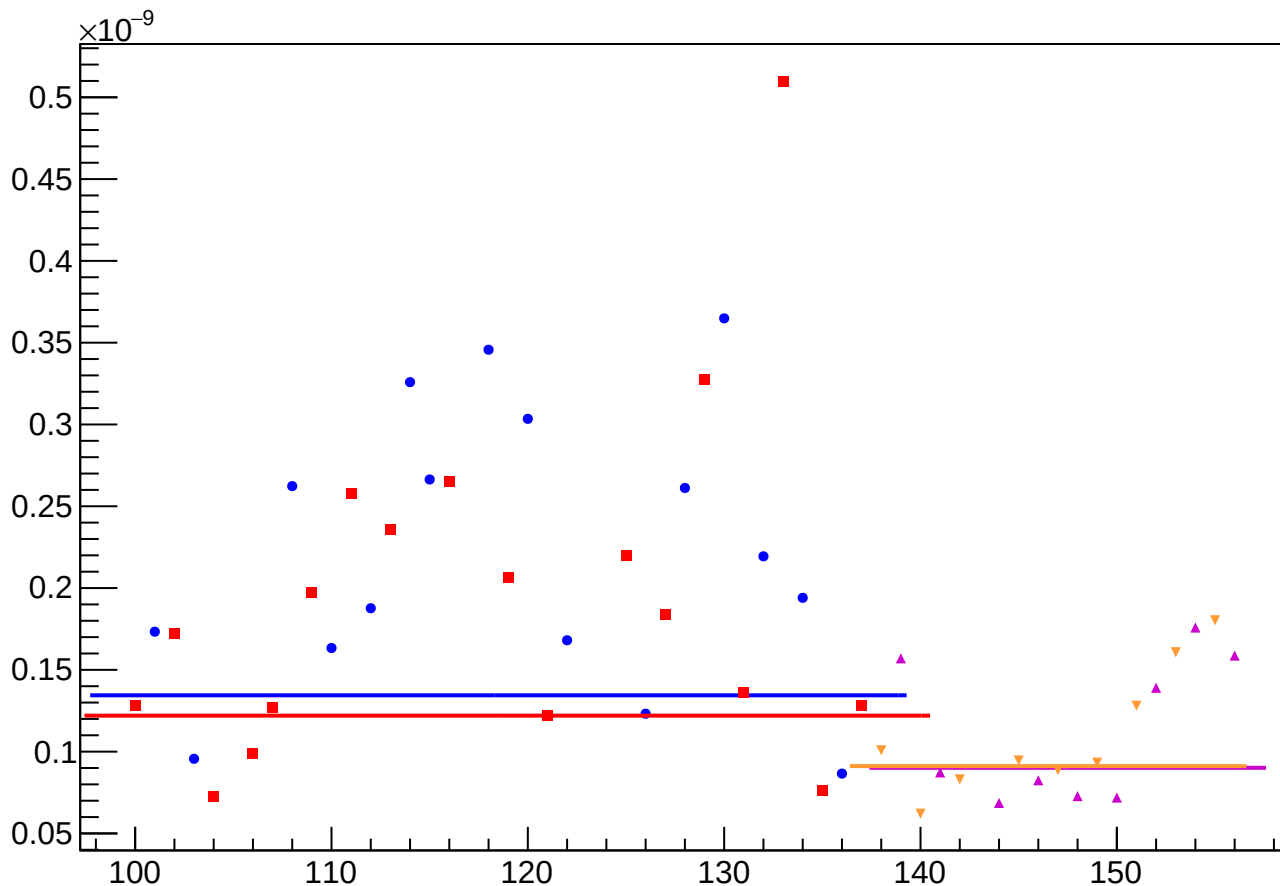
Right: -0.000 ± 0.000 χ^2/NDF : 27.8/33

In: 0.000 ± 0.000 χ^2/NDF : 21.1/24

Out: 0.000 ± 0.000 χ^2/NDF : 18.8/26

All: 0.000 ± 0.000 χ^2/NDF : 40.1/51

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 : 850720.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2003381.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 1108623.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1959913.4/17

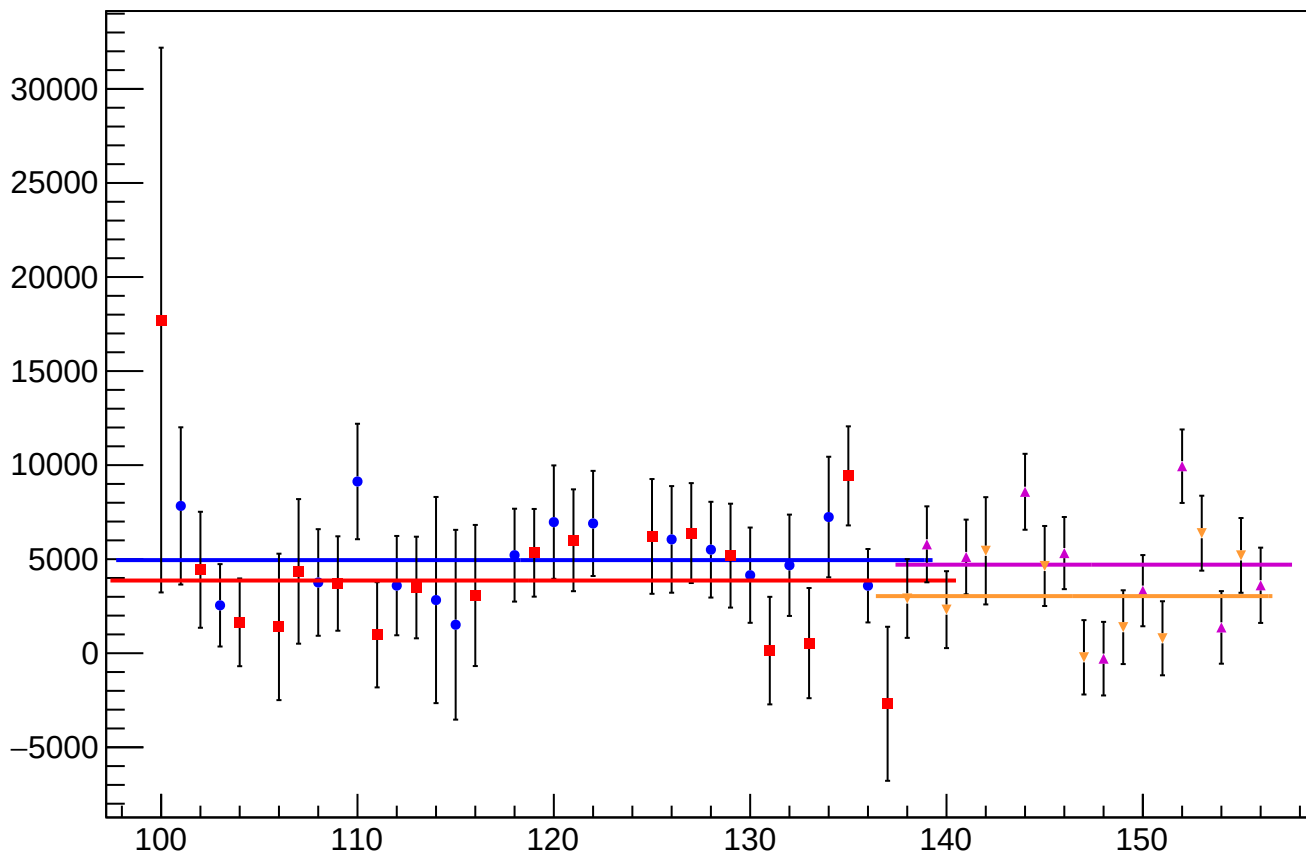
Right: 0.000+/-0.000 χ^2/NDF : 3852912.0/33

In: 0.000+/-0.000 χ^2/NDF : 3521220.7/24

Out: 0.000+/-0.000 χ^2/NDF : 3164566.1/26

All: 0.000+/-0.000 χ^2/NDF : 6686955.6/51

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: 3036.394+/-691.601 χ^2/NDF :10.1/8

Right Out: 3865.145+/-695.781 χ^2/NDF : 16.2/17

Left In: 4707.385+/-654.112 χ^2/NDF :21.6/8

Left: 3918.404+/-475.228 χ^2/NDF : 34.9/17

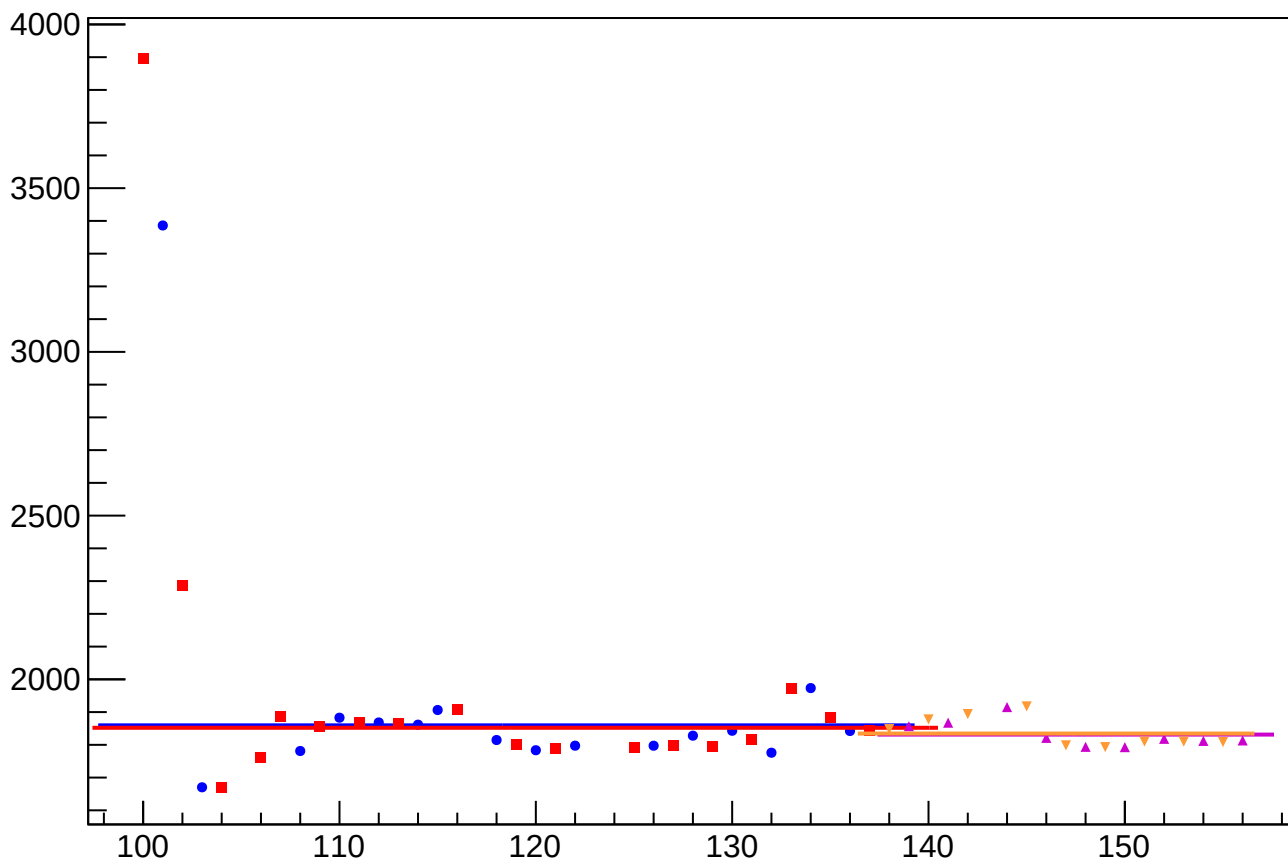
Right: 4405.277+/-493.103 χ^2/NDF : 24.2/33

In: 4820.814+/-477.588 χ^2/NDF :28.6/24

Out: 3448.273+/-490.507 χ^2/NDF :27.0/26

All: 4152.856+/-342.182 χ^2/NDF : 59.6/51

reg_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509 $\pm$ 0.494 χ^2 /NDF: 292334.6/15

Left Out: 1834.475 $\pm$ 0.489 χ^2 /NDF: 7400.1/8

Right Out: 1852.065 $\pm$ 0.490 χ^2 /NDF: 102212.5/17

Left In: 1831.277 $\pm$ 0.463 χ^2 /NDF: 6504.0/8

Left: 1832.787 $\pm$ 0.336 χ^2 /NDF: 13926.7/17

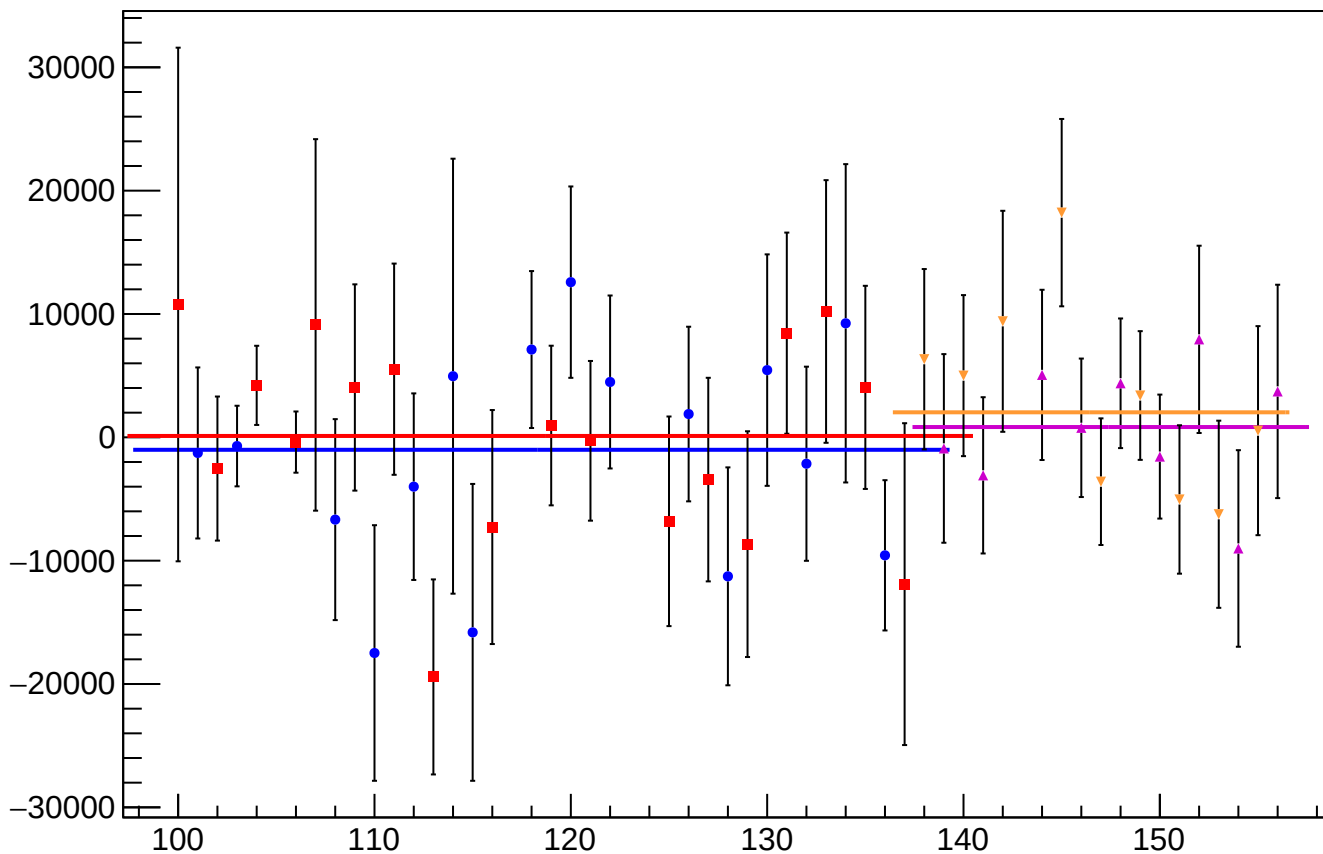
Right: 1855.759 $\pm$ 0.348 χ^2 /NDF: 394661.4/33

In: 1844.459 $\pm$ 0.338 χ^2 /NDF: 300578.2/24

Out: 1843.244 $\pm$ 0.346 χ^2 /NDF: 110257.5/26

All: 1843.867 $\pm$ 0.242 χ^2 /NDF: 410842.1/51

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: 2028.428+/-2205.667 χ^2/NDF : 9.6/8

Right Out: 111.261+/-1438.515 χ^2/NDF : 14.6/17

Left In: 835.024+/-2146.695 χ^2/NDF : 4.0/8

Left: 1415.559+/-1538.368 χ^2/NDF : 13.8/17

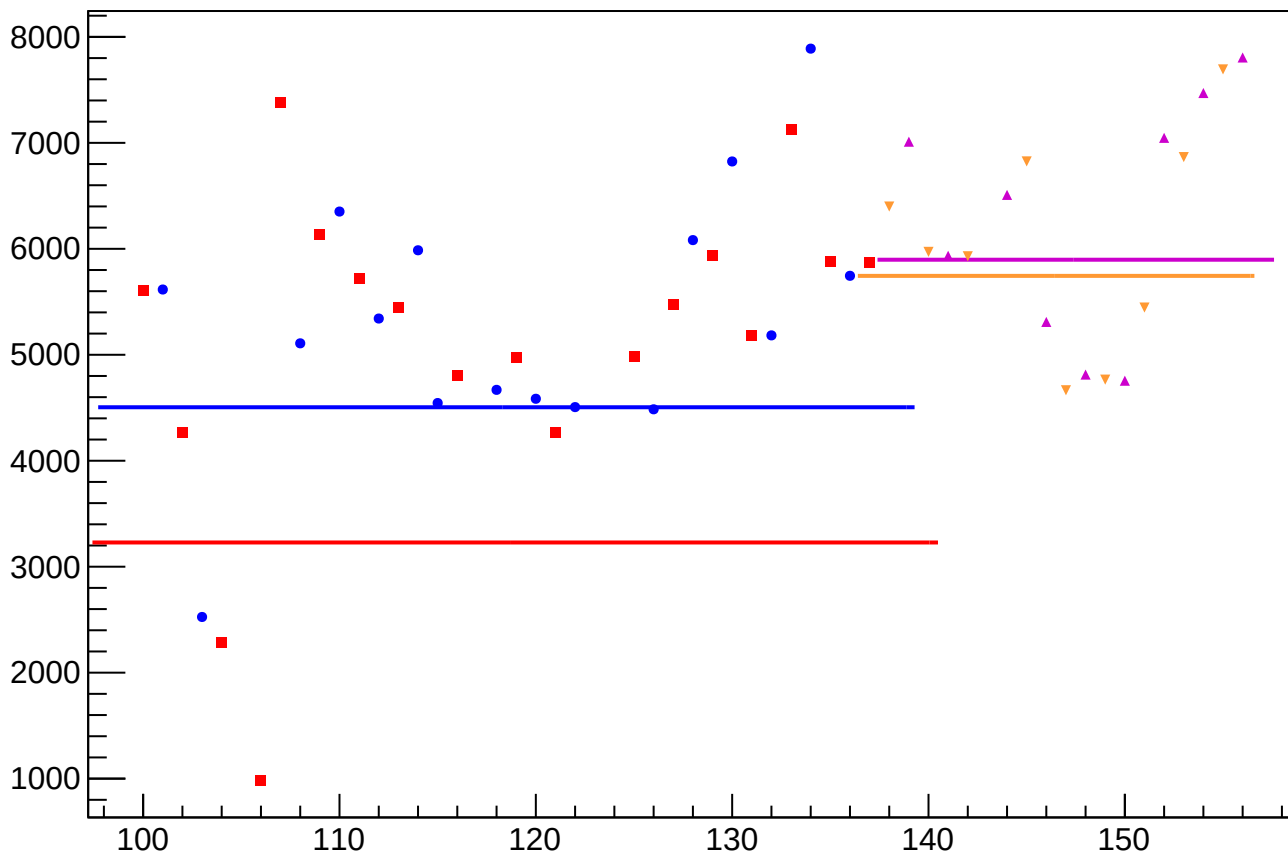
Right: -336.636+/-1114.867 χ^2/NDF : 29.6/33

In: -266.408+/-1362.972 χ^2/NDF : 19.2/24

Out: 683.380+/-1204.906 χ^2/NDF : 24.8/26

All: 266.730+/-902.733 χ^2/NDF : 44.3/51

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: 5744.650+/-1.560

χ^2/NDF : 372936.9/8

Right Out: 3228.605+/-1.017

χ^2/NDF : 3956397.6/17

Left In: 5897.101+/-1.518

χ^2/NDF : 489627.7/8

Left: 5822.941+/-1.088 χ^2/NDF : 867471.4/17

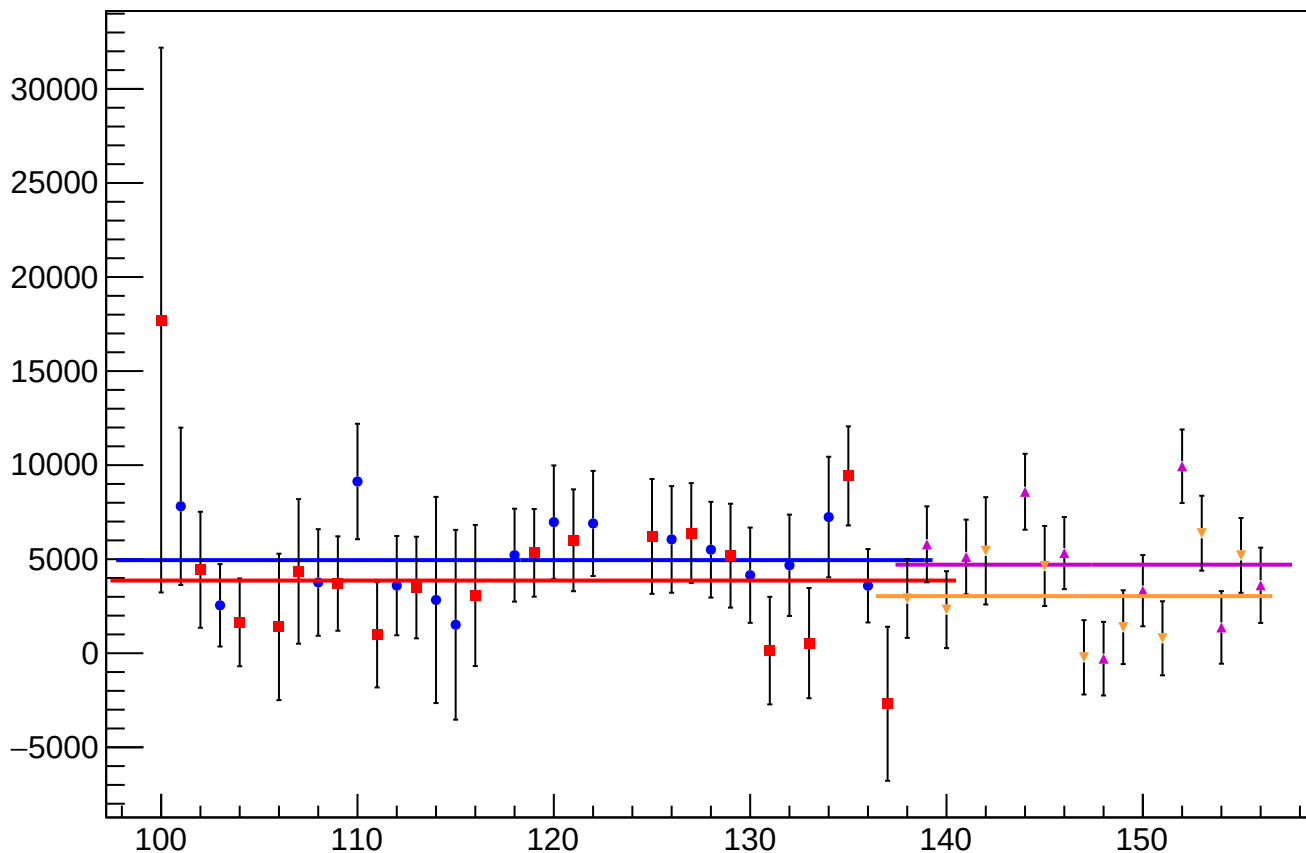
Right: 3738.256+/-0.788 χ^2/NDF : 5906121.0/33

In: 5066.056+/-0.964 χ^2/NDF : 2312903.1/24

Out: 3979.441+/-0.852 χ^2/NDF : 6155182.7/26

All: 4456.114+/-0.638 χ^2/NDF : 9181628.7/51

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: 3036.276 $\pm$ 691.601 χ^2 /NDF:10.1/8

Right Out: 3864.930 $\pm$ 695.781 χ^2 /NDF: 16.2/17

Left In: 4707.634 $\pm$ 654.112 χ^2 /NDF:21.6/8

Left: 3918.480 $\pm$ 475.228 χ^2 /NDF: 34.9/17

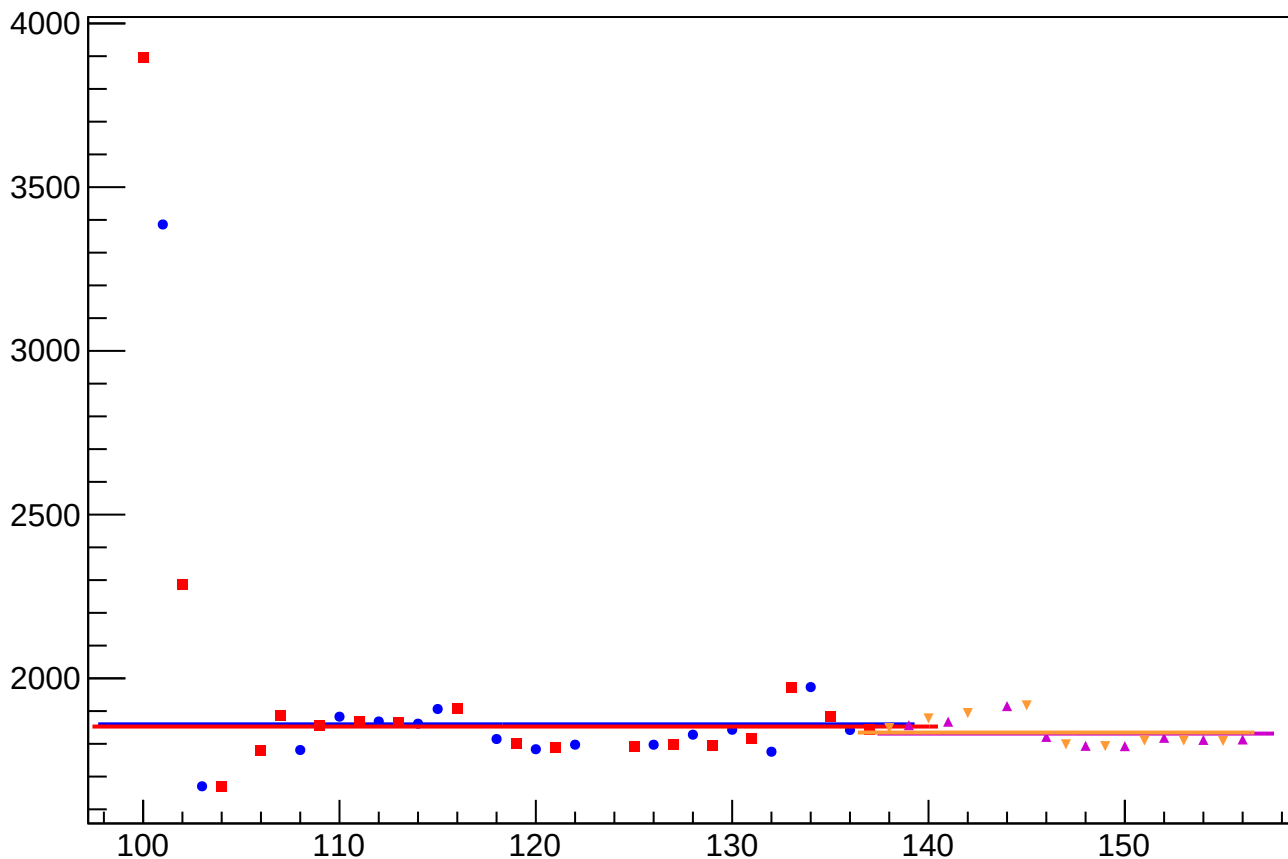
Right: 4404.929 $\pm$ 493.103 χ^2 /NDF: 24.2/33

In: 4820.721 $\pm$ 477.588 χ^2 /NDF:28.5/24

Out: 3448.106 $\pm$ 490.507 χ^2 /NDF:27.0/26

All: 4152.728 $\pm$ 342.182 χ^2 /NDF: 59.6/51

cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509 $\pm$ 0.494 χ^2 /NDF: 292336.5/15

Left Out: 1834.475 $\pm$ 0.489 χ^2 /NDF: 7400.1/8

Right Out: 1852.770 $\pm$ 0.491 χ^2 /NDF: 101750.5/17

Left In: 1831.277 $\pm$ 0.463 χ^2 /NDF: 6504.0/8

Left: 1832.787 $\pm$ 0.336 χ^2 /NDF: 13926.7/17

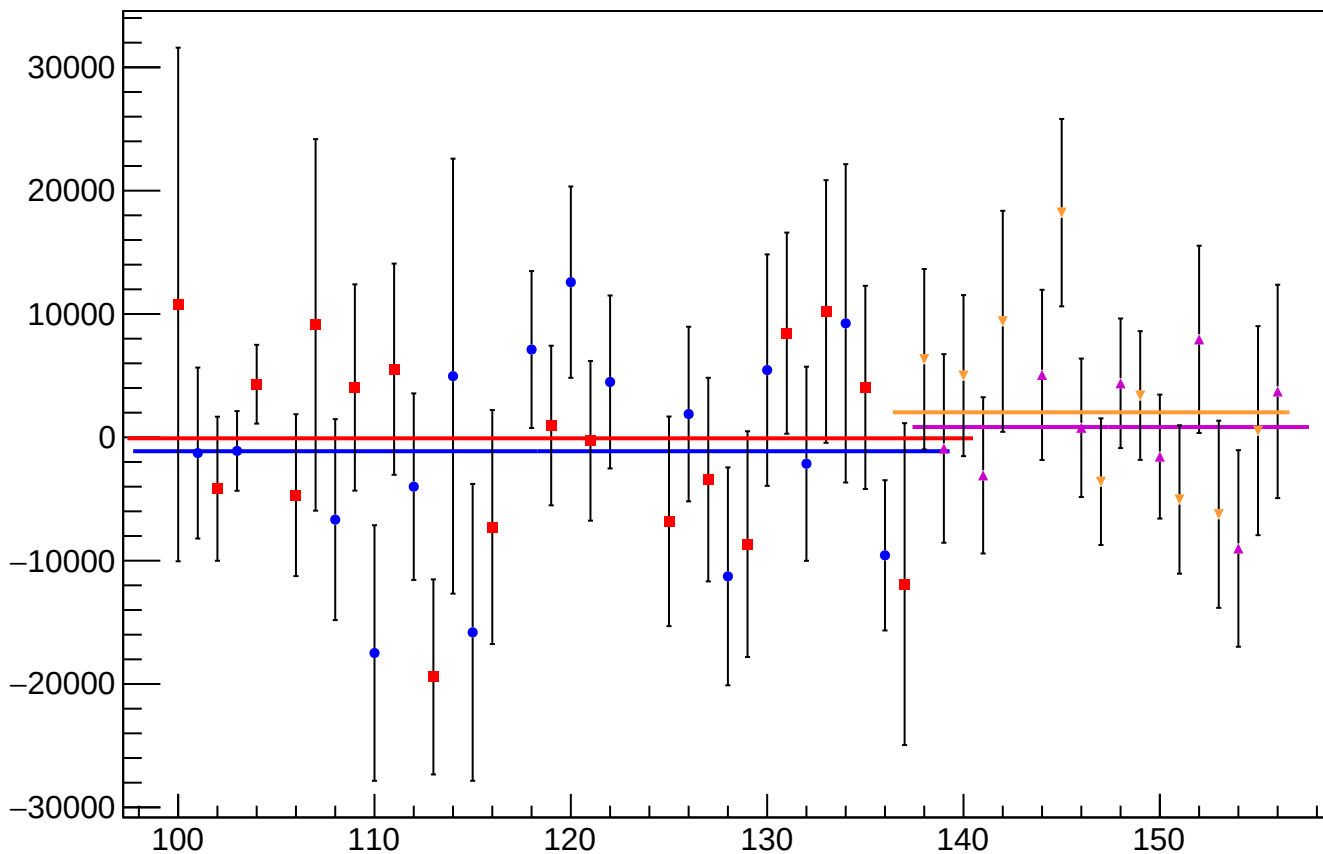
Right: 1856.115 $\pm$ 0.348 χ^2 /NDF: 394180.6/33

In: 1844.459 $\pm$ 0.338 χ^2 /NDF: 300580.1/24

Out: 1843.593 $\pm$ 0.346 χ^2 /NDF: 109848.1/26

All: 1844.037 $\pm$ 0.242 χ^2 /NDF: 410431.4/51

asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1125.567 $\pm$ 1757.876 χ^2 /NDF: 14.7/15

Left Out: 2028.310 $\pm$ 2205.665 χ^2 /NDF:9.6/8

Right Out: -78.270 $\pm$ 1702.444 χ^2 /NDF: 15.5/17

Left In: 835.213 $\pm$ 2146.695 χ^2 /NDF:4.0/8

Left: 1415.599 $\pm$ 1538.368 χ^2 /NDF: 13.8/17

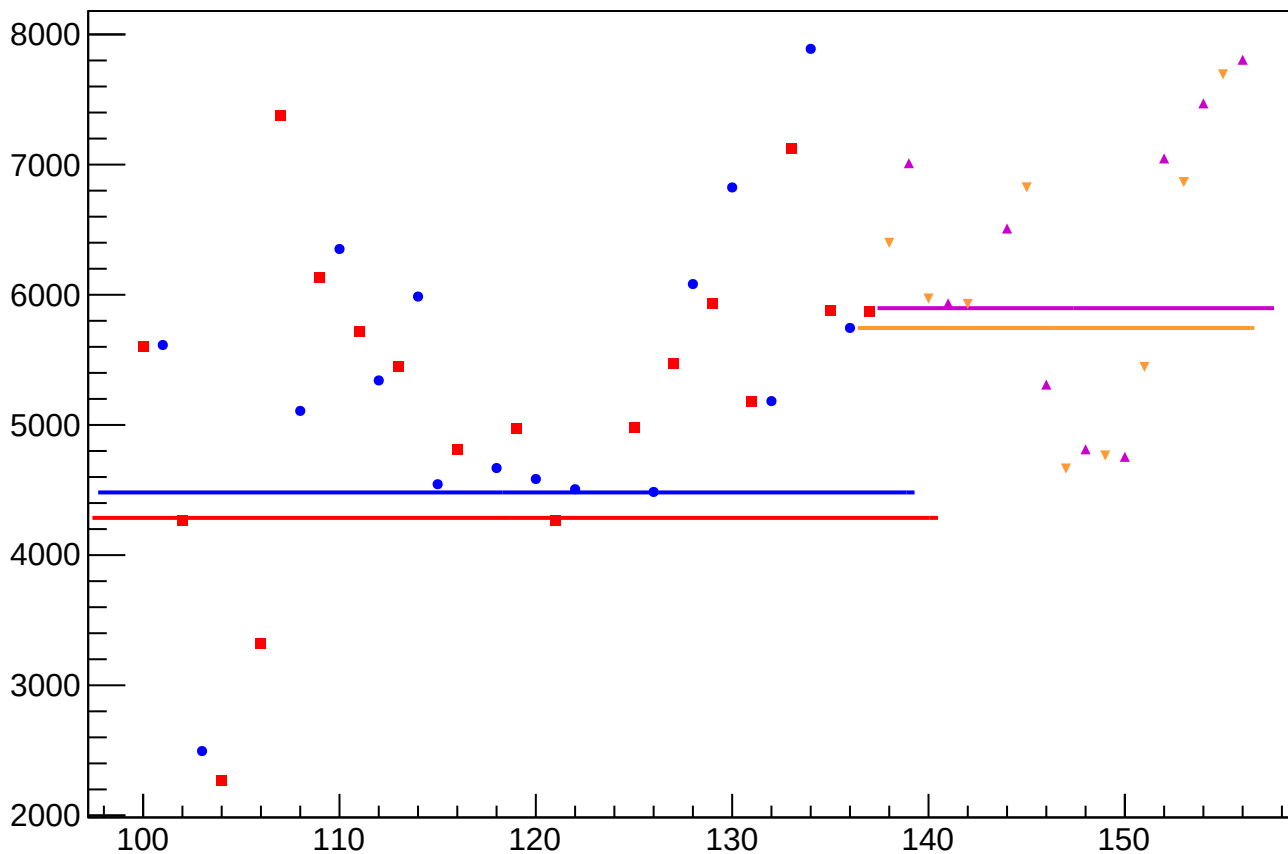
Right: -585.146 $\pm$ 1222.937 χ^2 /NDF: 30.5/33

In: -338.515 $\pm$ 1360.058 χ^2 /NDF:19.2/24

Out: 708.194 $\pm$ 1347.690 χ^2 /NDF:25.8/26

All: 189.621 $\pm$ 957.303 χ^2 /NDF: 45.3/51

asym_us_avg_atlr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4481.518 $\pm$ 1.243 χ^2 /NDF: 1362255.0/15

Left Out: 5744.643 $\pm$ 1.560 χ^2 /NDF: 372941.2/8

Right Out: 4286.125 $\pm$ 1.204 χ^2 /NDF: 1549852.7/17

Left In: 5897.101 $\pm$ 1.518 χ^2 /NDF: 489630.5/8

Left: 5822.937 $\pm$ 1.088 χ^2 /NDF: 867478.9/17

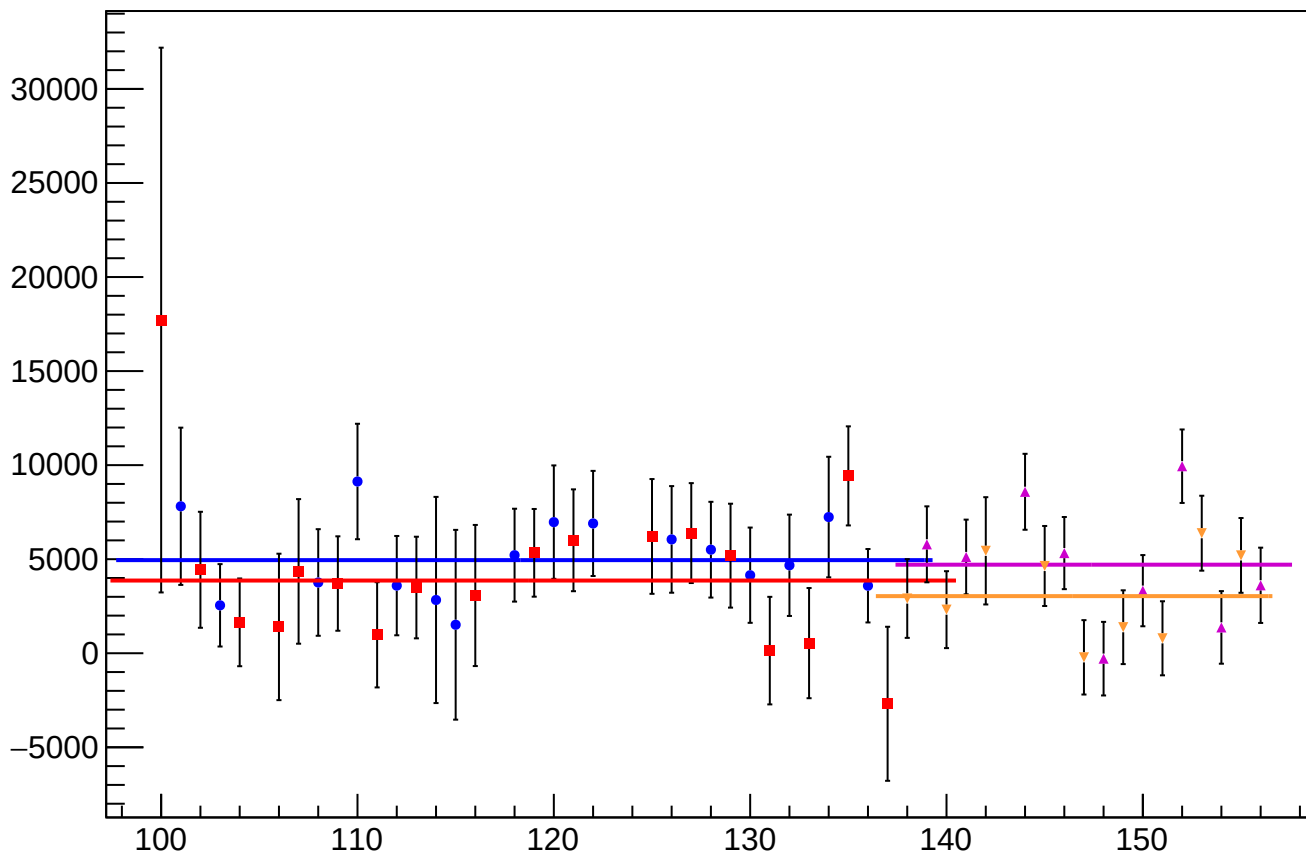
Right: 4380.692 $\pm$ 0.865 χ^2 /NDF: 2924858.4/33

In: 5049.729 $\pm$ 0.962 χ^2 /NDF: 2372478.7/24

Out: 4830.644 $\pm$ 0.953 χ^2 /NDF: 2470829.6/26

All: 4939.186 $\pm$ 0.677 χ^2 /NDF: 4869493.9/51

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: 3036.276 $\pm$ 691.601 χ^2 /NDF:10.1/8

Right Out: 3864.930 $\pm$ 695.781 χ^2 /NDF: 16.2/17

Left In: 4707.634 $\pm$ 654.112 χ^2 /NDF:21.6/8

Left: 3918.480 $\pm$ 475.228 χ^2 /NDF: 34.9/17

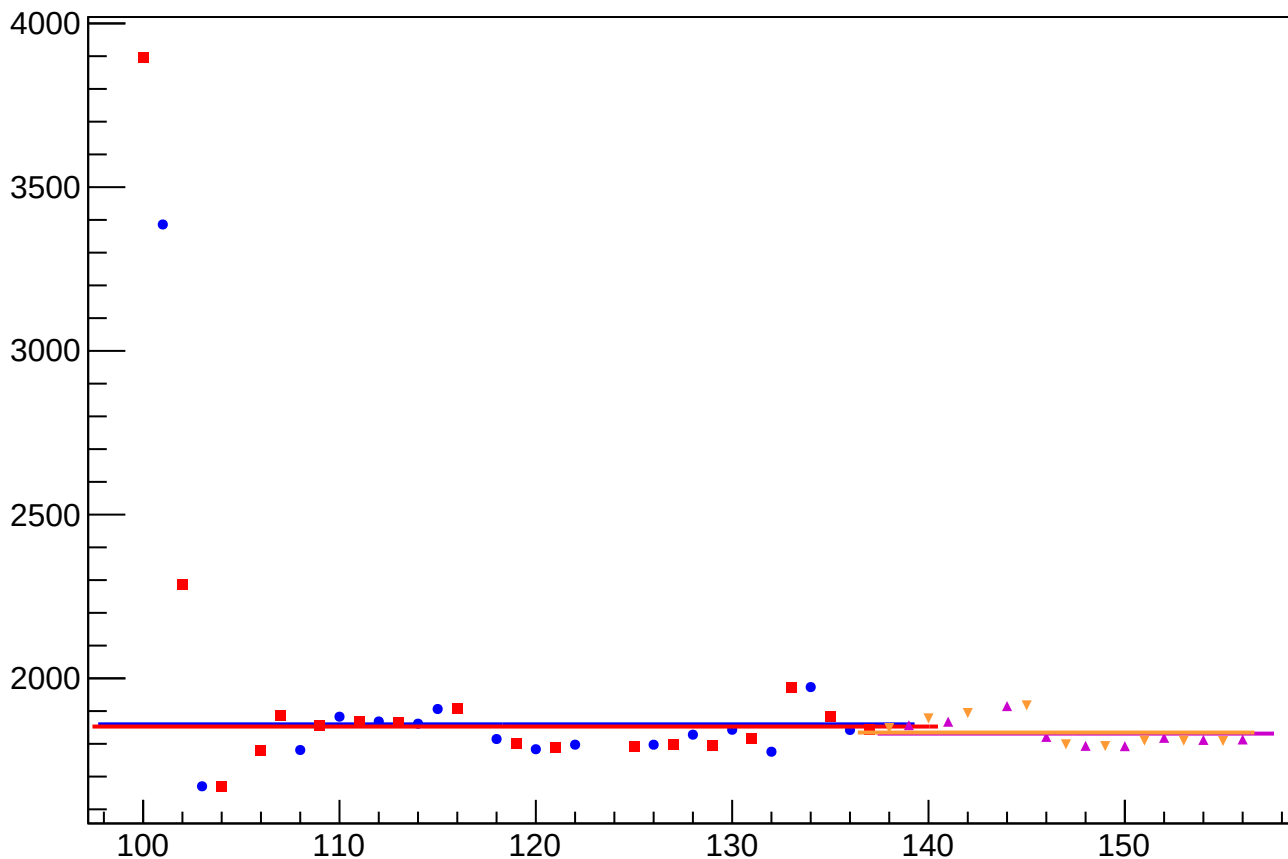
Right: 4404.929 $\pm$ 493.103 χ^2 /NDF: 24.2/33

In: 4820.721 $\pm$ 477.588 χ^2 /NDF:28.5/24

Out: 3448.106 $\pm$ 490.507 χ^2 /NDF:27.0/26

All: 4152.728 $\pm$ 342.182 χ^2 /NDF: 59.6/51

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: 1834.475+/-0.489 χ^2/NDF : 7400.1/8

Right Out: 1852.770+/-0.491 χ^2/NDF : 101750.5/17

Left In: 1831.277+/-0.463 χ^2/NDF : 6504.0/8

Left: 1832.787+/-0.336 χ^2/NDF : 13926.7/17

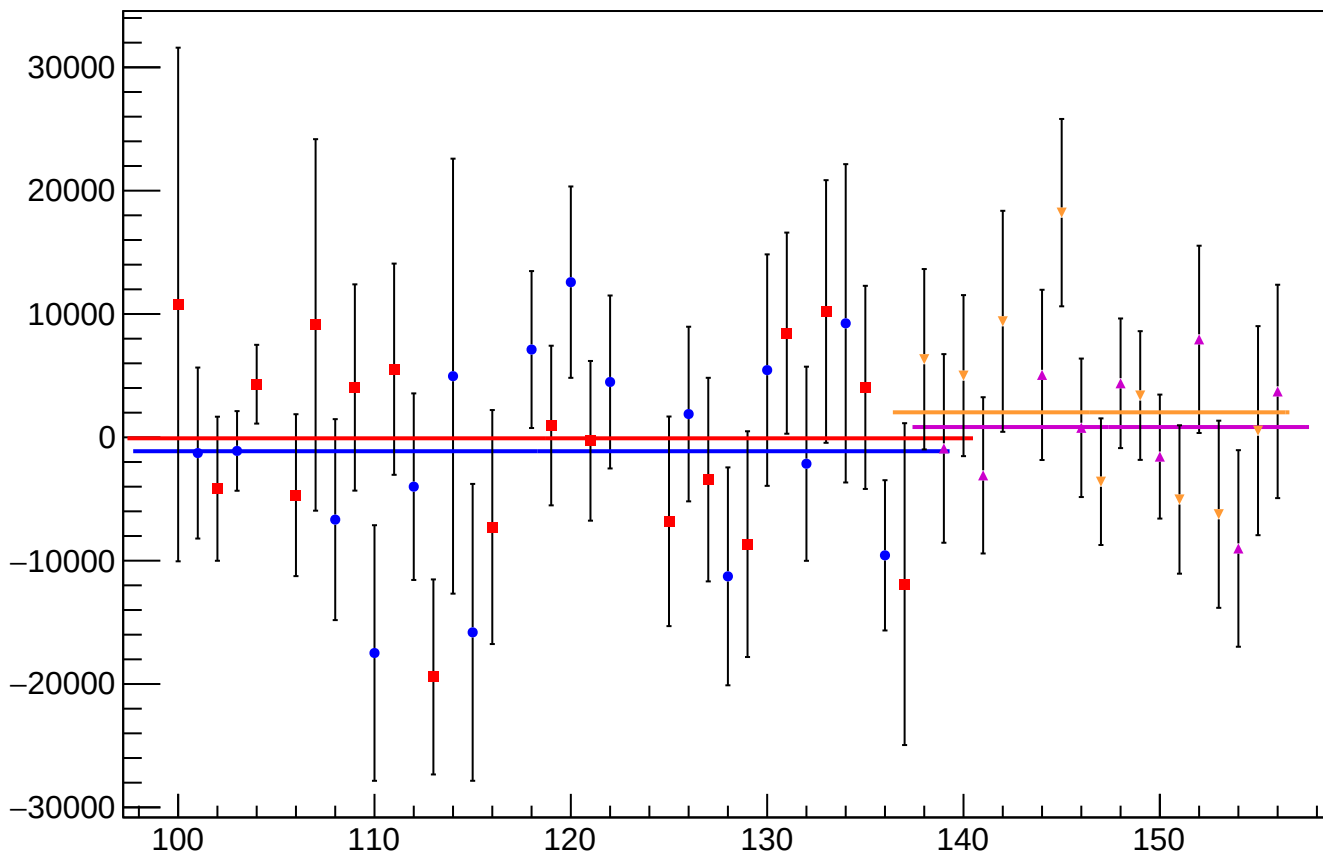
Right: 1856.115+/-0.348 χ^2/NDF : 394180.6/33

In: 1844.459+/-0.338 χ^2/NDF : 300580.1/24

Out: 1843.593+/-0.346 χ^2/NDF : 109848.1/26

All: 1844.037+/-0.242 χ^2/NDF : 410431.4/51

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: 2028.310 $\pm$ 2205.665 χ^2 /NDF:9.6/8

Right Out: -78.270 $\pm$ 1702.444 χ^2 /NDF: 15.5/17

Left In: 835.213 $\pm$ 2146.695 χ^2 /NDF:4.0/8

Left: 1415.599 $\pm$ 1538.368 χ^2 /NDF: 13.8/17

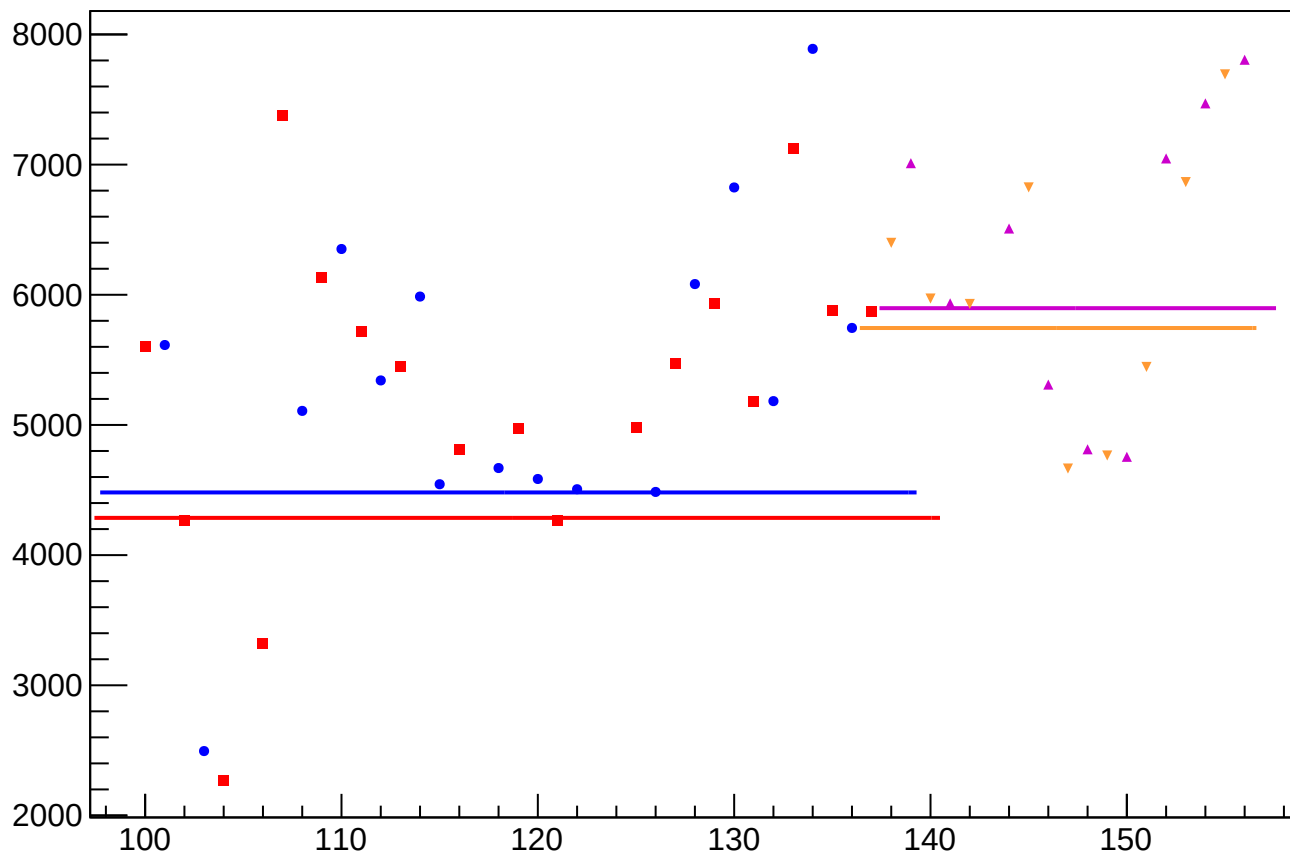
Right: -585.146 $\pm$ 1222.937 χ^2 /NDF: 30.5/33

In: -338.515 $\pm$ 1360.058 χ^2 /NDF:19.2/24

Out: 708.194 $\pm$ 1347.690 χ^2 /NDF:25.8/26

All: 189.621 $\pm$ 957.303 χ^2 /NDF: 45.3/51

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: 5744.643+/-1.560 χ^2/NDF : 372941.2/8

Right Out: 4286.125+/-1.204 χ^2/NDF : 1549852.7/17

Left In: 5897.101+/-1.518 χ^2/NDF : 489630.5/8

Left: 5822.937+/-1.088 χ^2/NDF : 867478.9/17

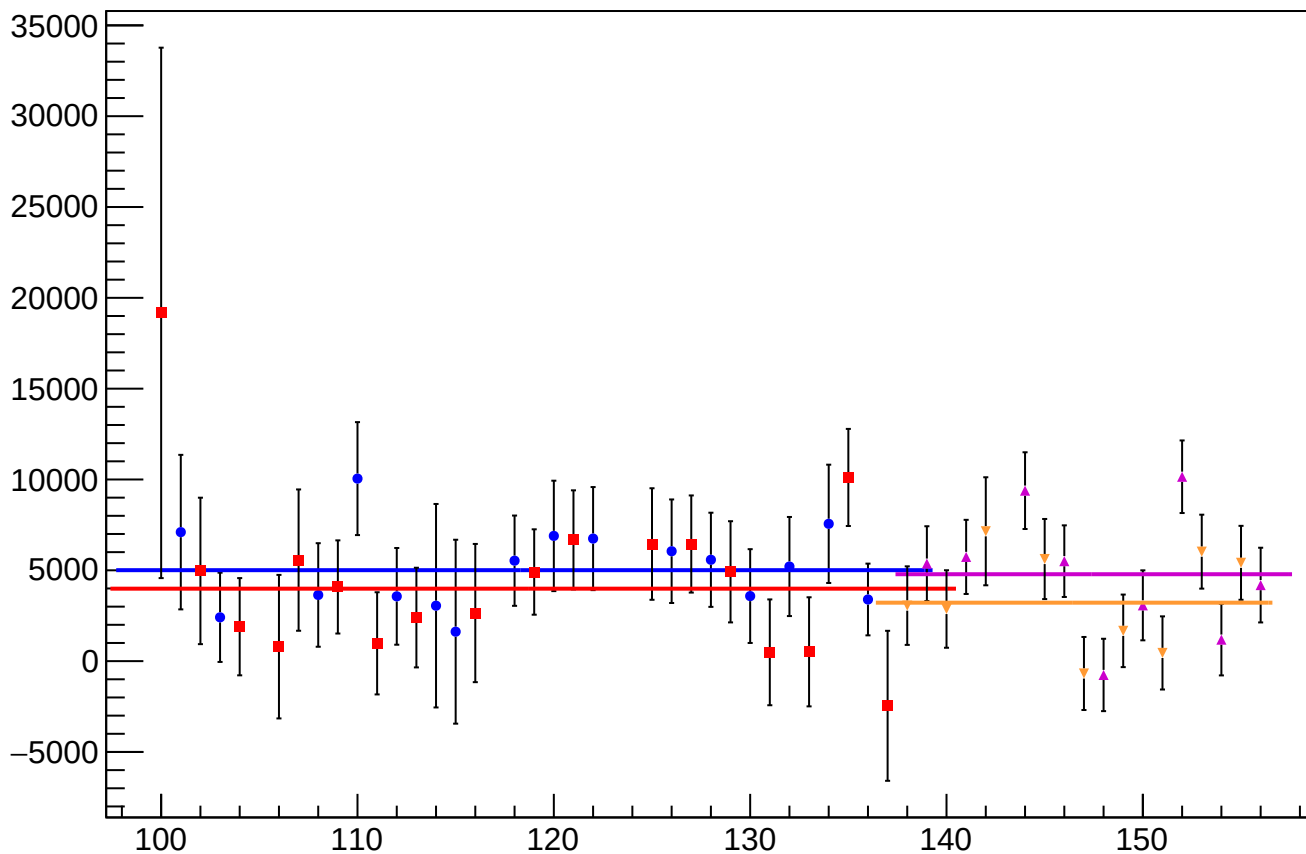
Right: 4380.692+/-0.865 χ^2/NDF : 2924858.4/33

In: 5049.729+/-0.962 χ^2/NDF : 2372478.7/24

Out: 4830.644+/-0.953 χ^2/NDF : 2470829.6/26

All: 4939.186+/-0.677 χ^2/NDF : 4869493.9/51

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: 3217.793+/-710.686 χ^2/NDF :12.3/8

Right Out: 3989.193+/-719.024 χ^2/NDF : 17.4/17

Left In: 4784.472+/-670.547 χ^2/NDF :24.4/8

Left: 4046.623+/-487.721 χ^2/NDF : 39.2/17

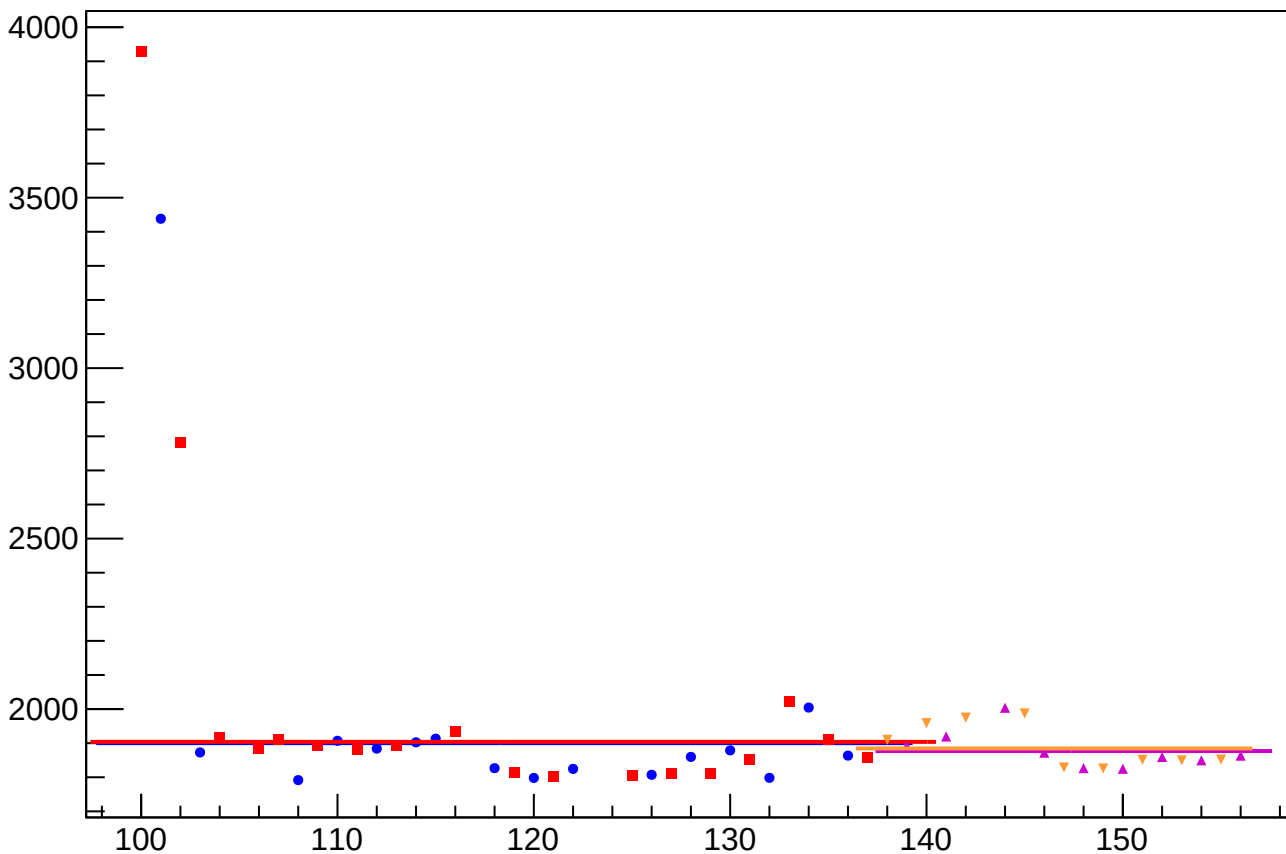
Right: 4501.780+/-506.663 χ^2/NDF : 26.0/33

In: 4888.897+/-488.808 χ^2/NDF :32.1/24

Out: 3598.994+/-505.453 χ^2/NDF :30.2/26

All: 4265.534+/-351.377 χ^2/NDF : 65.7/51

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: 1884.509+/-0.503 χ^2/NDF : 13793.9/8

Right Out: 1903.827+/-0.508 χ^2/NDF : 150115.8/17

Left In: 1876.825+/-0.474 χ^2/NDF : 11558.5/8

Left: 1880.444+/-0.345 χ^2/NDF : 25476.1/17

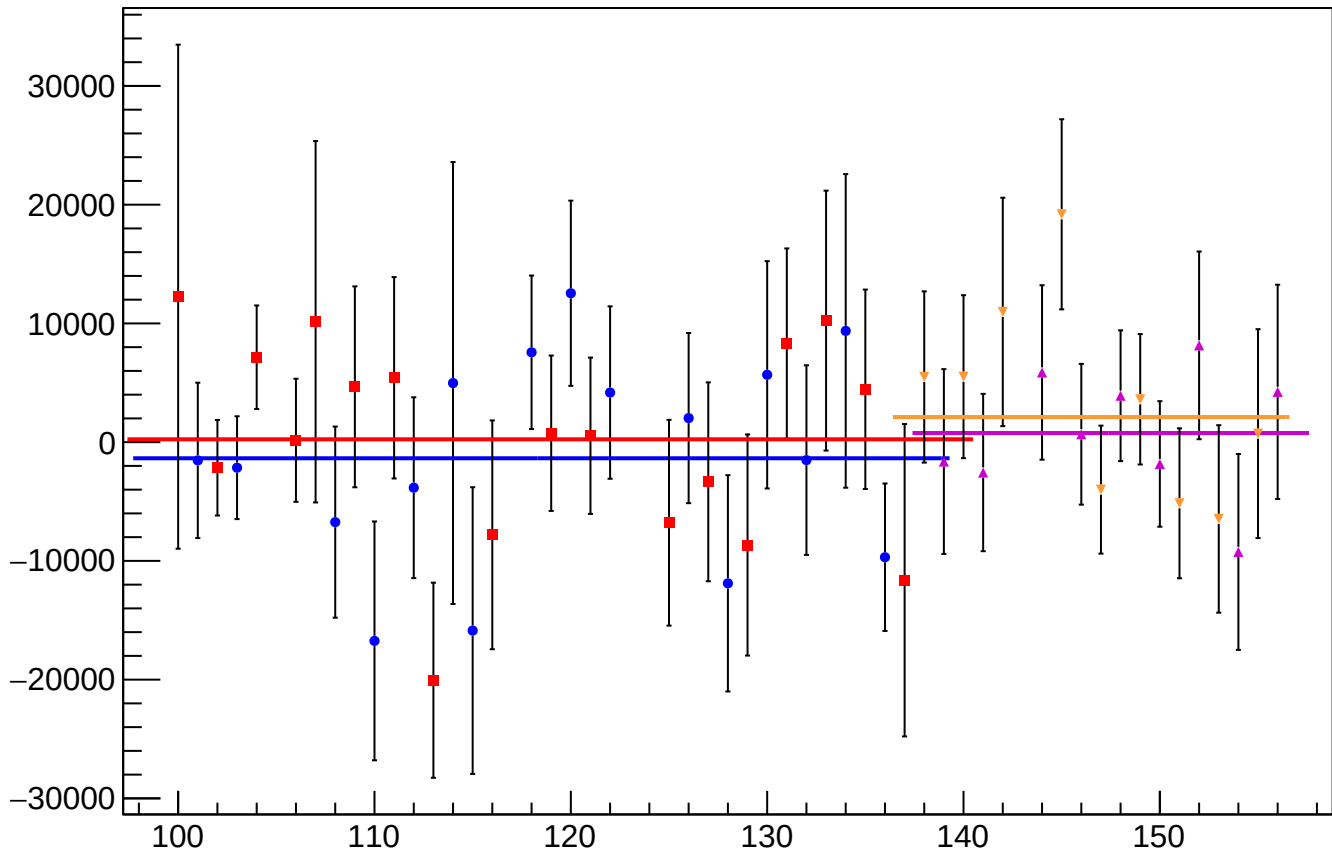
Right: 1901.958+/-0.358 χ^2/NDF : 428591.0/33

In: 1887.737+/-0.346 χ^2/NDF : 291137.0/24

Out: 1894.066+/-0.357 χ^2/NDF : 164640.8/26

All: 1890.797+/-0.248 χ^2/NDF : 455939.9/51

asym_us_avg_atlr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1356.615 $\pm$ 1895.990 χ^2 /NDF: 14.7/15

Left Out: 2117.489 $\pm$ 2303.178 χ^2 /NDF:9.8/8

Right Out: 241.153 $\pm$ 1712.681 χ^2 /NDF: 15.7/17

Left In: 769.698 $\pm$ 2247.152 χ^2 /NDF:3.9/8

Left: 1427.001 $\pm$ 1608.419 χ^2 /NDF: 13.8/17

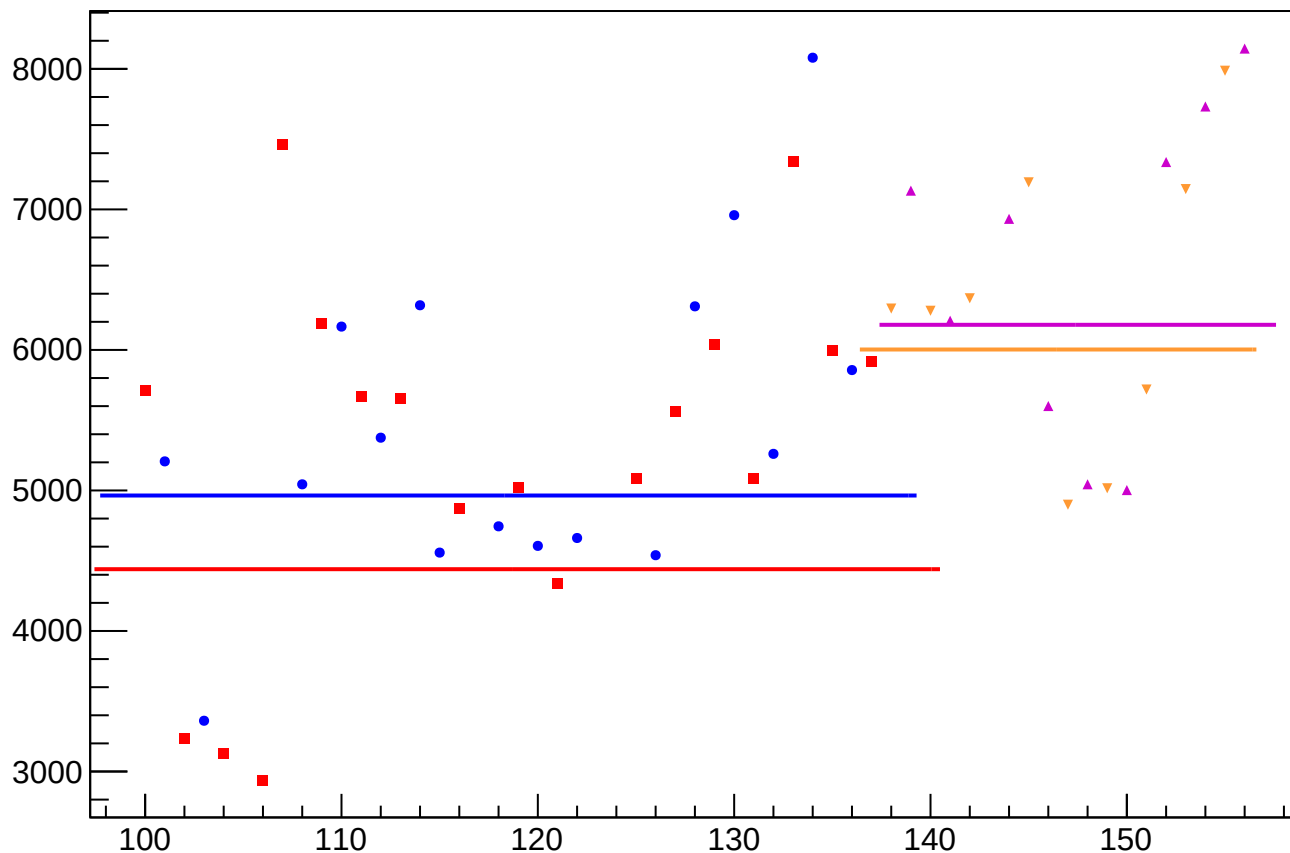
Right: -476.778 $\pm$ 1270.927 χ^2 /NDF: 30.8/33

In: -472.394 $\pm$ 1449.103 χ^2 /NDF:19.1/24

Out: 909.261 $\pm$ 1374.344 χ^2 /NDF:25.9/26

All: 254.991 $\pm$ 997.190 χ^2 /NDF: 45.5/51

asym_us_avg_atlr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4963.998 ± 1.341 $\chi^2/\text{NDF}: 627377.0/15$

Left Out: 6003.020 ± 1.629 $\chi^2/\text{NDF}: 349808.4/8$

Right Out: 4439.675 ± 1.211 $\chi^2/\text{NDF}: 1158510.1/17$

Left In: 6178.728 ± 1.589 $\chi^2/\text{NDF}: 462931.7/8$

Left: 6093.037 ± 1.137 $\chi^2/\text{NDF}: 818703.5/17$

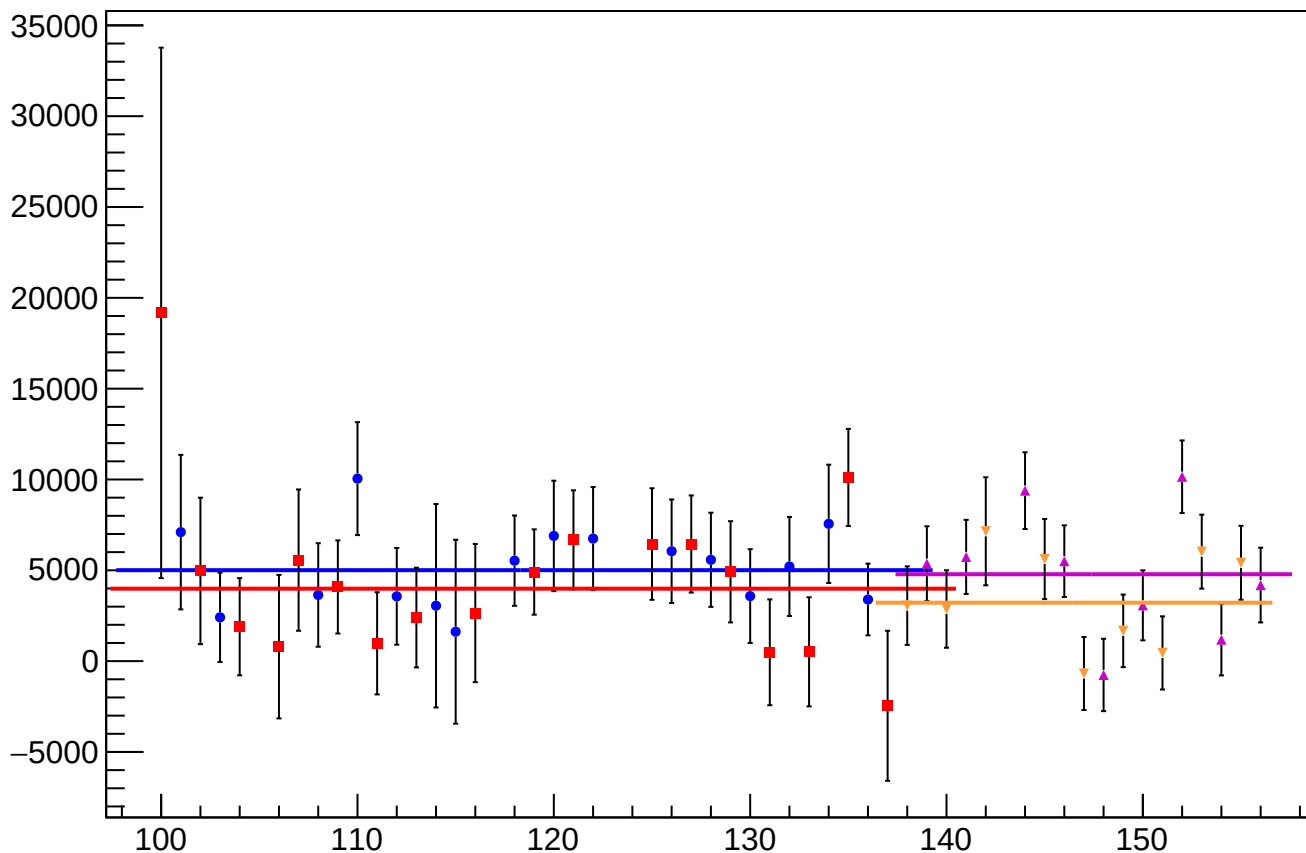
Right: 4675.271 ± 0.899 $\chi^2/\text{NDF}: 1870112.9/33$

In: 5469.140 ± 1.025 $\chi^2/\text{NDF}: 1431699.1/24$

Out: 4996.336 ± 0.972 $\chi^2/\text{NDF}: 2101685.0/26$

All: 5220.228 ± 0.705 $\chi^2/\text{NDF}: 3645472.1/51$

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5007.314 $\pm$ 714.061 χ^2 /NDF: 7.7/15

Left Out: 3217.792 $\pm$ 710.687 χ^2 /NDF:12.3/8

Right Out: 3989.192 $\pm$ 719.024 χ^2 /NDF: 17.4/17

Left In: 4784.471 $\pm$ 670.547 χ^2 /NDF:24.4/8

Left: 4046.622 $\pm$ 487.722 χ^2 /NDF: 39.2/17

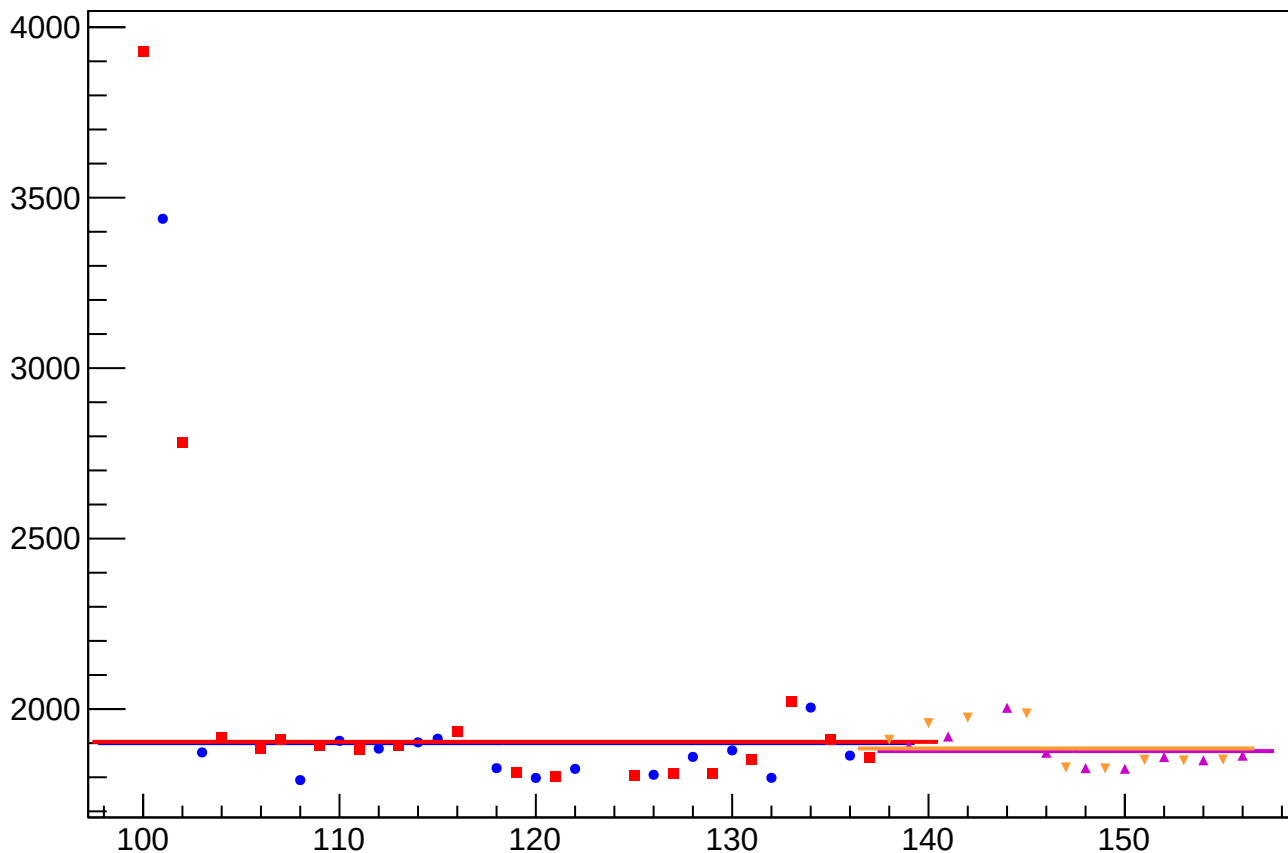
Right: 4501.779 $\pm$ 506.663 χ^2 /NDF: 26.0/33

In: 4888.896 $\pm$ 488.808 χ^2 /NDF:32.1/24

Out: 3598.994 $\pm$ 505.453 χ^2 /NDF:30.2/26

All: 4265.533 $\pm$ 351.377 χ^2 /NDF: 65.7/51

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: 1884.510+/-0.503 χ^2/NDF : 13794.1/8

Right Out: 1903.826+/-0.508 χ^2/NDF : 150115.1/17

Left In: 1876.826+/-0.474 χ^2/NDF : 11558.6/8

Left: 1880.445+/-0.345 χ^2/NDF : 25476.4/17

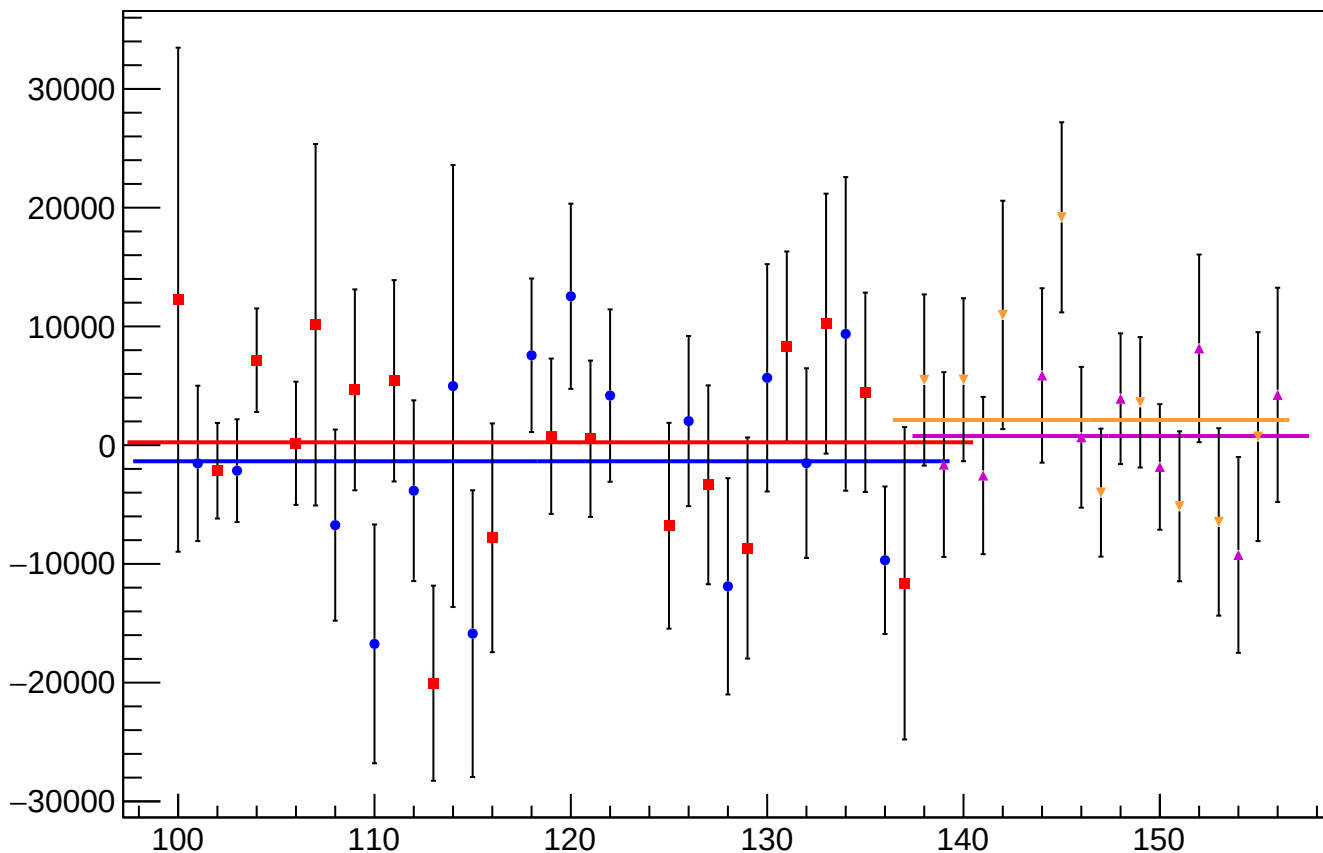
Right: 1901.958+/-0.358 χ^2/NDF : 428590.5/33

In: 1887.737+/-0.346 χ^2/NDF : 291137.2/24

Out: 1894.066+/-0.357 χ^2/NDF : 164640.1/26

All: 1890.797+/-0.248 χ^2/NDF : 455939.4/51

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: 2117.483 $\pm$ 2303.181 χ^2 /NDF:9.8/8

Right Out: 241.155 $\pm$ 1712.677 χ^2 /NDF: 15.7/17

Left In: 769.697 $\pm$ 2247.155 χ^2 /NDF:3.9/8

Left: 1426.998 $\pm$ 1608.421 χ^2 /NDF: 13.8/17

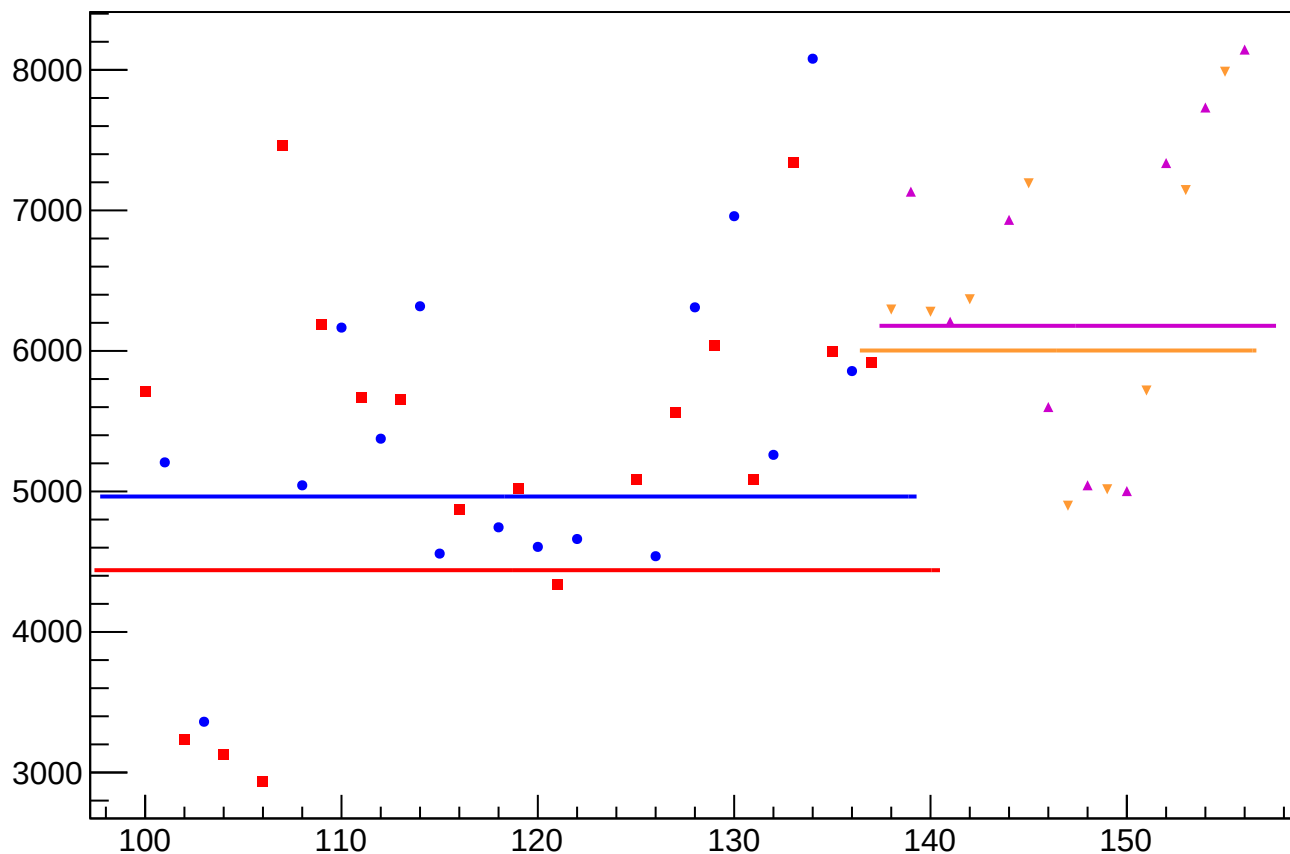
Right: -476.773 $\pm$ 1270.924 χ^2 /NDF: 30.8/33

In: -472.392 $\pm$ 1449.102 χ^2 /NDF:19.1/24

Out: 909.257 $\pm$ 1374.343 χ^2 /NDF:25.9/26

All: 254.990 $\pm$ 997.189 χ^2 /NDF: 45.5/51

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: 6003.028 $\pm$ 1.629 χ^2 /NDF:349809.8/8

Right Out: 4439.663 $\pm$ 1.211 χ^2 /NDF: 1158509.7/17

Left In: 6178.737 $\pm$ 1.589 χ^2 /NDF:462932.3/8

Left: 6093.045 $\pm$ 1.137 χ^2 /NDF: 818705.5/17

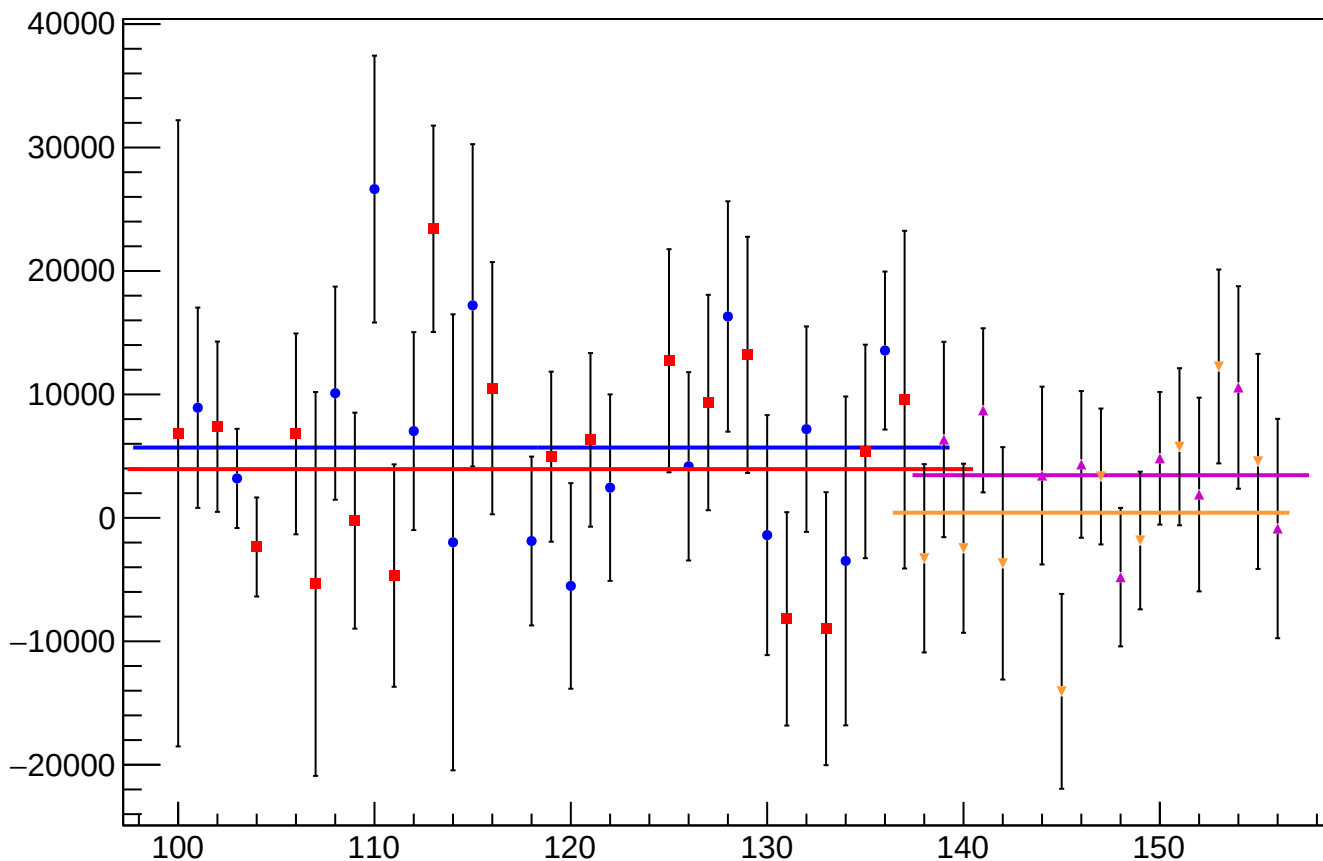
Right: 4675.259 $\pm$ 0.899 χ^2 /NDF: 1870114.9/33

In: 5469.134 $\pm$ 1.025 χ^2 /NDF:1431714.4/24

Out: 4996.329 $\pm$ 0.972 χ^2 /NDF:2101700.7/26

All: 5220.221 $\pm$ 0.705 χ^2 /NDF: 3645503.8/51

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: 418.621+/-2324.241 χ^2/NDF : 7.6/8

Right Out: 3949.394+/-1920.582 χ^2/NDF : 16.1/17

Left In: 3456.188+/-2256.552 χ^2/NDF : 4.0/8

Left: 1982.280+/-1619.025 χ^2/NDF : 12.5/17

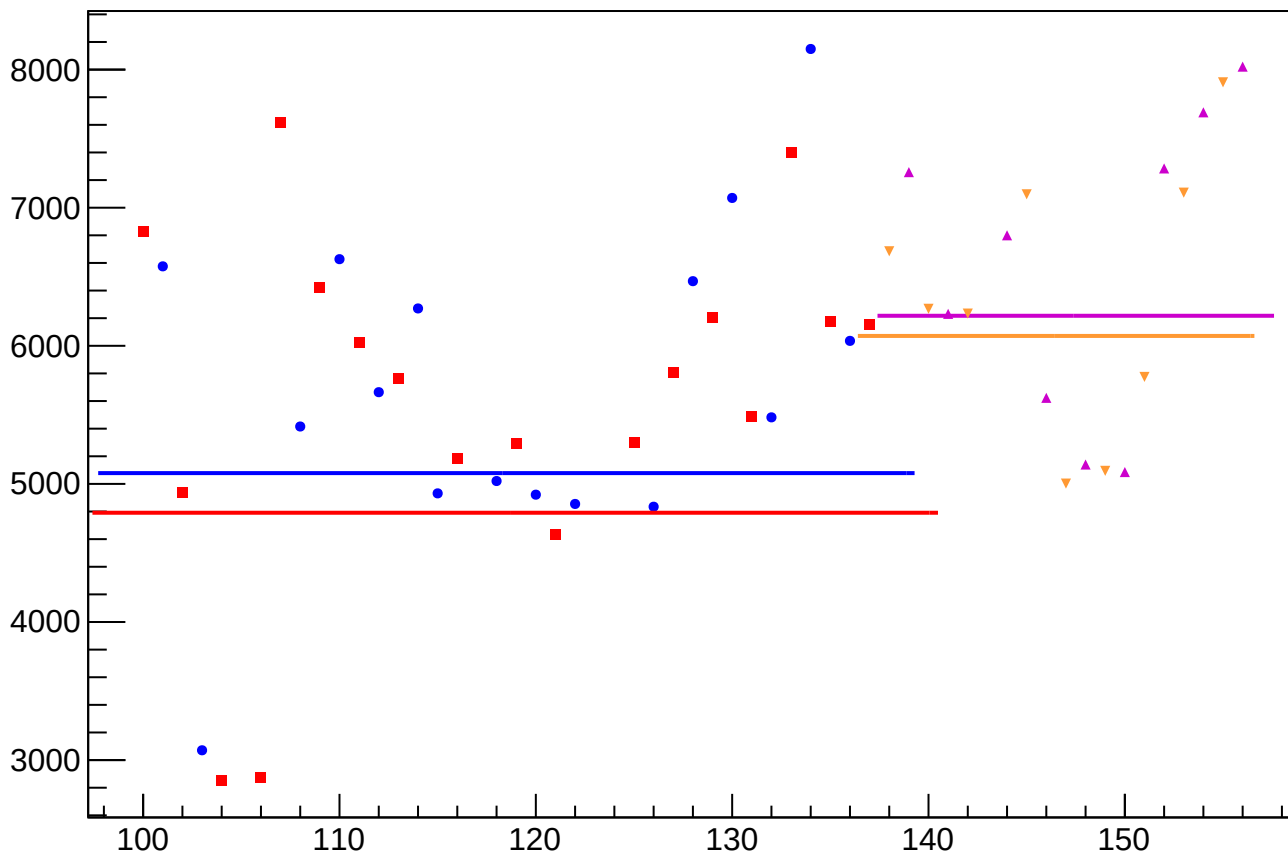
Right: 4805.905+/-1371.511 χ^2/NDF : 29.2/33

In: 4733.981+/-1479.409 χ^2/NDF : 17.2/24

Out: 2516.755+/-1480.521 χ^2/NDF : 25.1/26

All: 3626.201+/-1046.493 χ^2/NDF : 43.5/51

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: 6071.467+/-1.643 χ^2/NDF : 313974.0/8

Right Out: 4791.154+/-1.331 χ^2/NDF : 1162455.3/17

Left In: 6217.465+/-1.596 χ^2/NDF : 414009.8/8

Left: 6146.623+/-1.145 χ^2/NDF : 732046.1/17

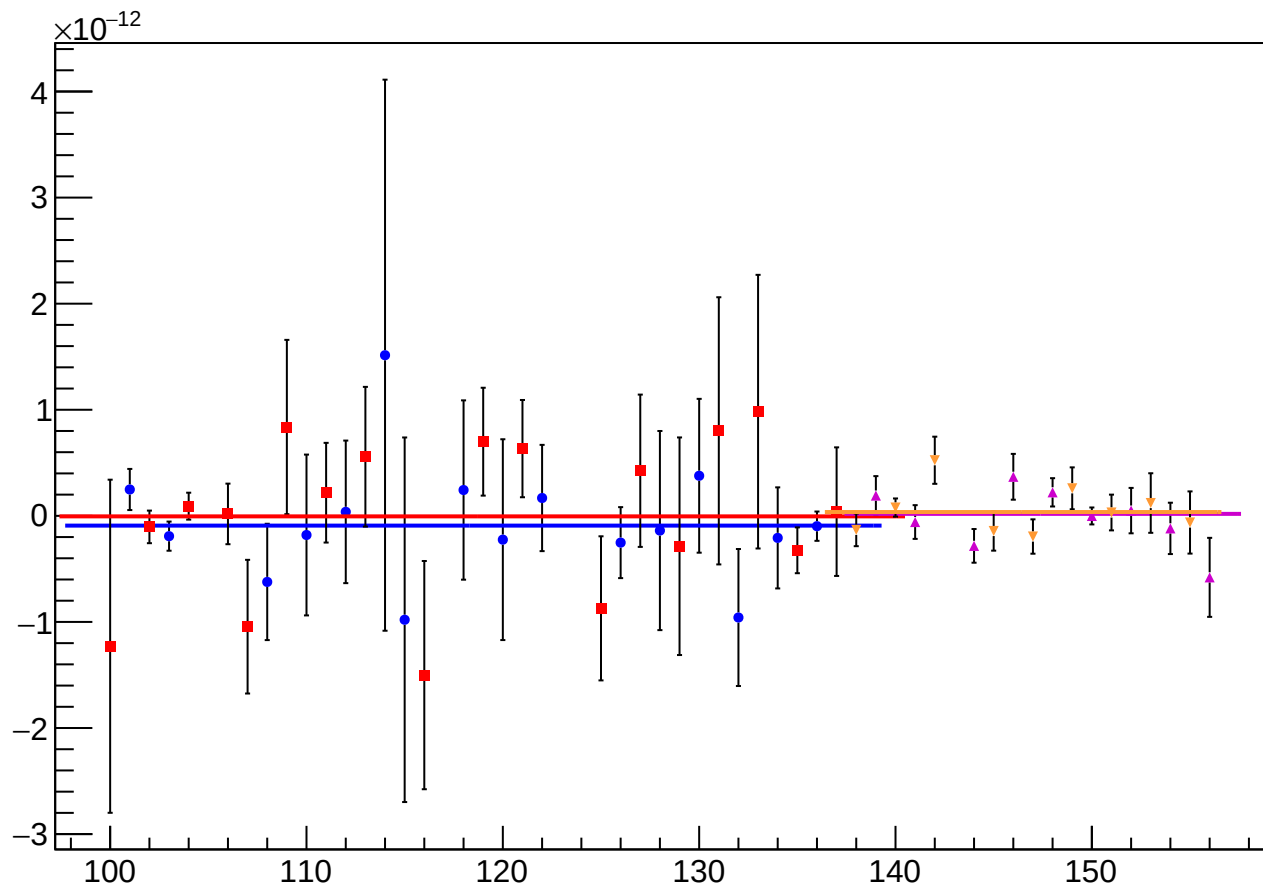
Right: 4928.883+/-0.960 χ^2/NDF : 2103987.6/33

In: 5567.844+/-1.046 χ^2/NDF : 1623916.1/24

Out: 5298.139+/-1.034 χ^2/NDF : 1842991.8/26

All: 5431.450+/-0.735 χ^2/NDF : 3500523.7/51

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 :10.7/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.4/17

Left In: 0.000+/-0.000 χ^2/NDF :12.6/8

Left: 0.000+/-0.000 χ^2/NDF : 23.4/17

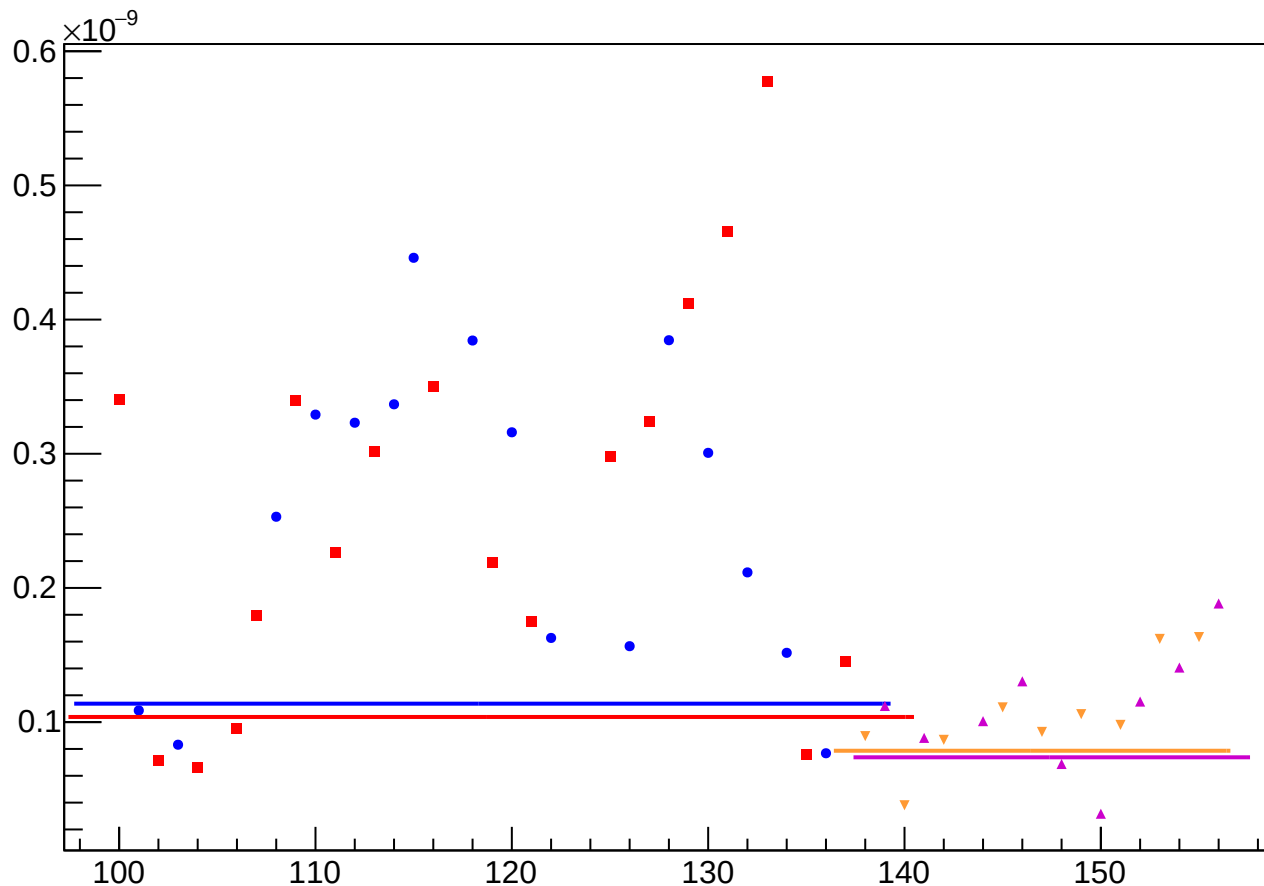
Right: -0.000+/-0.000 χ^2/NDF : 26.2/33

In: -0.000+/-0.000 χ^2/NDF :22.3/24

Out: 0.000+/-0.000 χ^2/NDF :28.3/26

All: 0.000+/-0.000 χ^2/NDF : 50.9/51

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 :944946.0/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2087534.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1273911.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2227687.1/17

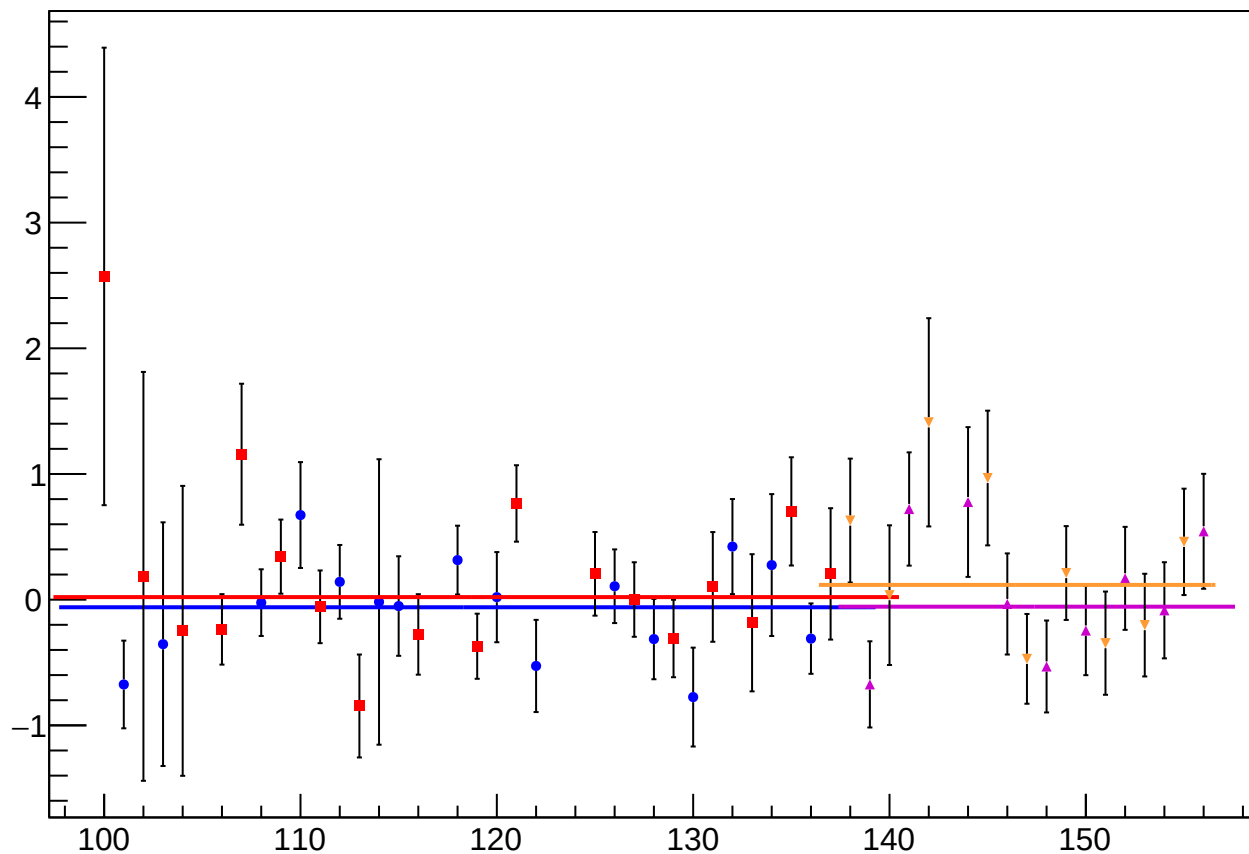
Right: 0.000+/-0.000 χ^2/NDF : 3628704.5/33

In: 0.000+/-0.000 χ^2/NDF :3169416.6/24

Out: 0.000+/-0.000 χ^2/NDF :3176449.6/26

All: 0.000+/-0.000 χ^2/NDF : 6346562.7/51

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.118 ± 0.149 $\chi^2/\text{NDF}: 11.4/8$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.056 ± 0.134 $\chi^2/\text{NDF}: 12.2/8$

Left: 0.022 ± 0.100 $\chi^2/\text{NDF}: 24.3/17$

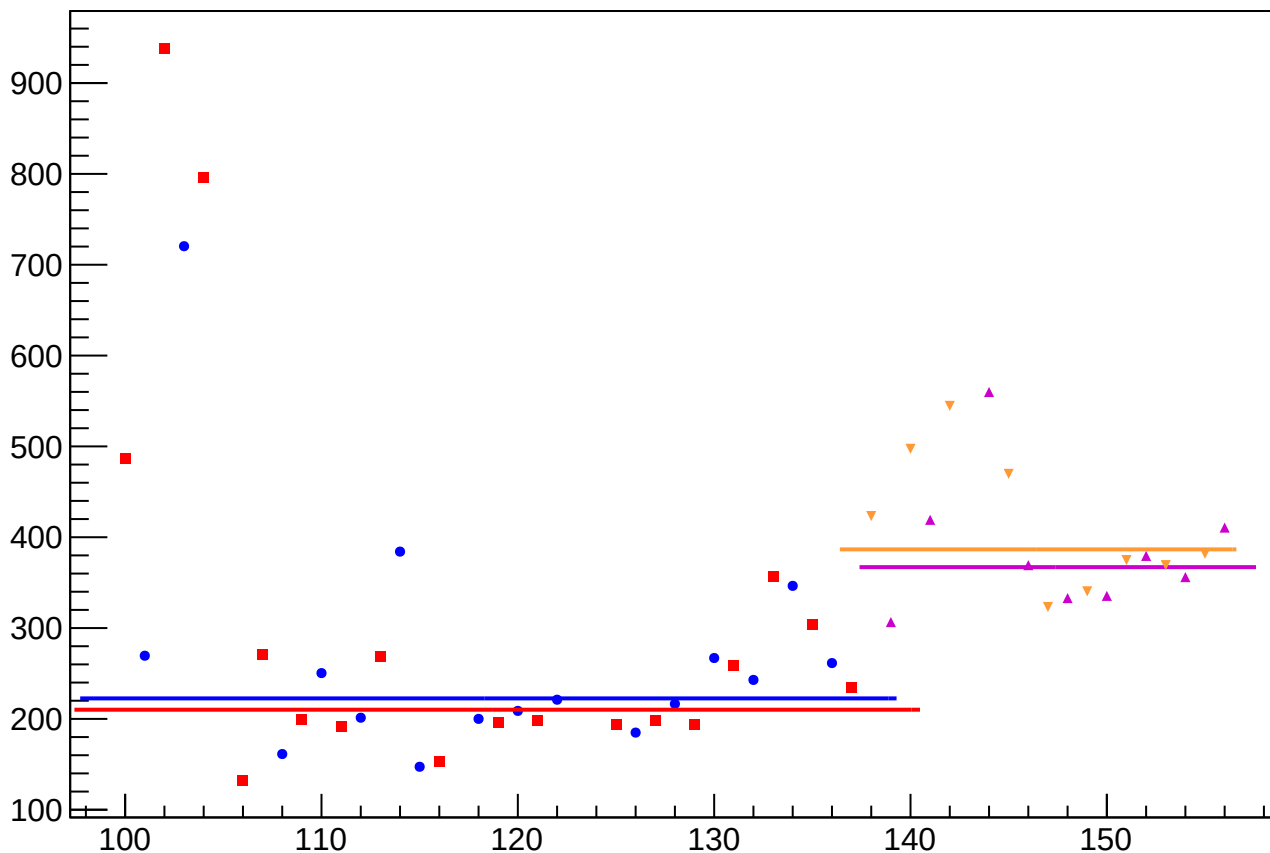
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.059 ± 0.074 $\chi^2/\text{NDF}: 29.5/24$

Out: 0.045 ± 0.075 $\chi^2/\text{NDF}: 37.8/26$

All: -0.008 ± 0.053 $\chi^2/\text{NDF}: 68.3/51$

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569 ± 0.063 $\chi^2/\text{NDF}: 1018774.9/15$

Left Out: 386.612 ± 0.106 $\chi^2/\text{NDF}: 310587.7/8$

Right Out: 210.123 ± 0.062 $\chi^2/\text{NDF}: 1548526.4/17$

Left In: 367.088 ± 0.095 $\chi^2/\text{NDF}: 353235.1/8$

Left: 375.818 ± 0.071 $\chi^2/\text{NDF}: 682714.0/17$

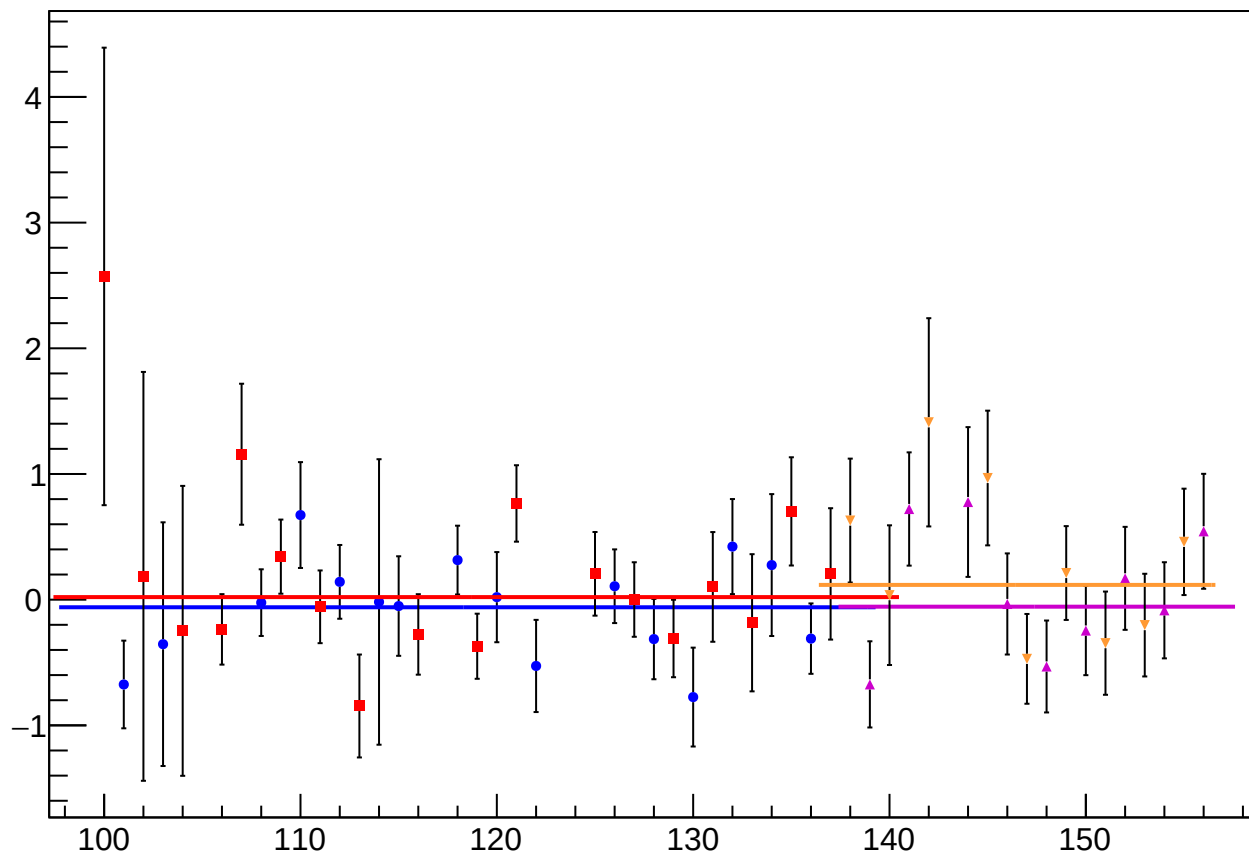
Right: 216.259 ± 0.044 $\chi^2/\text{NDF}: 2587282.3/33$

In: 266.418 ± 0.052 $\chi^2/\text{NDF}: 2984459.3/24$

Out: 255.156 ± 0.053 $\chi^2/\text{NDF}: 3938664.8/26$

All: 260.897 ± 0.037 $\chi^2/\text{NDF}: 6945836.1/51$

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 χ^2/NDF : 17.3/15

Left Out: 0.118 ± 0.149 χ^2/NDF : 11.4/8

Right Out: 0.020 ± 0.087 χ^2/NDF : 26.1/17

Left In: -0.056 ± 0.134 χ^2/NDF : 12.2/8

Left: 0.022 ± 0.100 χ^2/NDF : 24.3/17

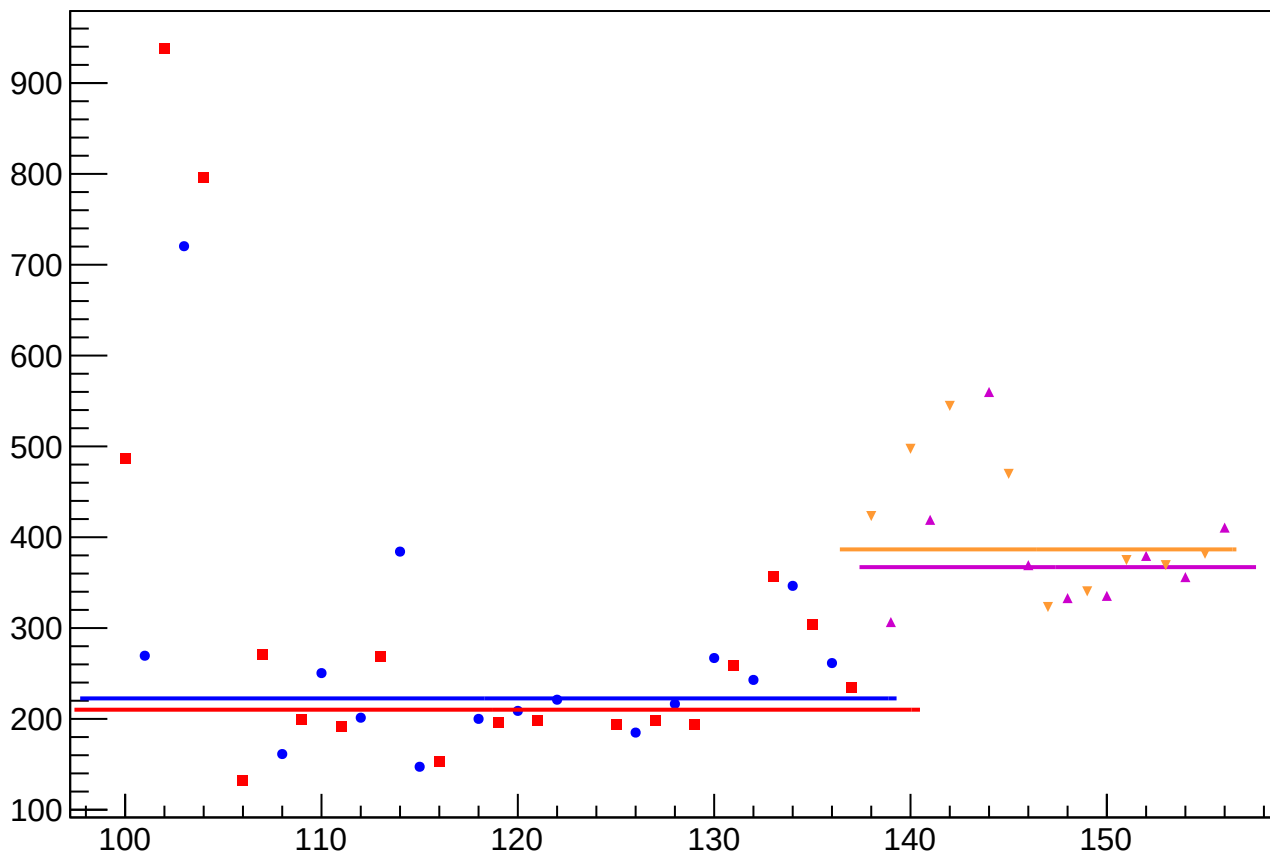
Right: -0.019 ± 0.062 χ^2/NDF : 43.9/33

In: -0.059 ± 0.074 χ^2/NDF : 29.5/24

Out: 0.045 ± 0.075 χ^2/NDF : 37.8/26

All: -0.008 ± 0.053 χ^2/NDF : 68.3/51

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569 ± 0.063 $\chi^2/\text{NDF}: 1018774.9/15$

Left Out: 386.612 ± 0.106 $\chi^2/\text{NDF}: 310587.7/8$

Right Out: 210.123 ± 0.062 $\chi^2/\text{NDF}: 1548526.4/17$

Left In: 367.088 ± 0.095 $\chi^2/\text{NDF}: 353235.1/8$

Left: 375.818 ± 0.071 $\chi^2/\text{NDF}: 682714.0/17$

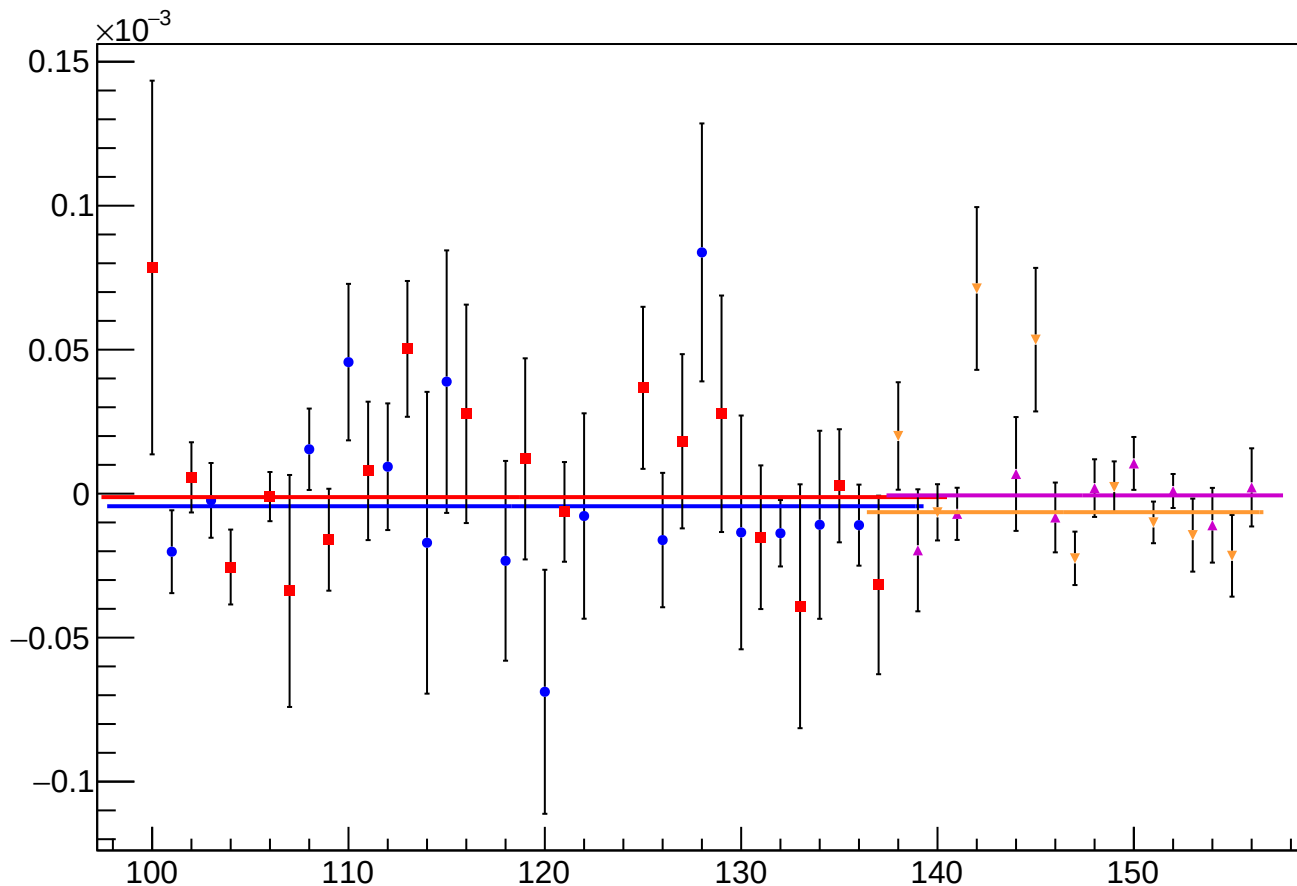
Right: 216.259 ± 0.044 $\chi^2/\text{NDF}: 2587282.3/33$

In: 266.418 ± 0.052 $\chi^2/\text{NDF}: 2984459.3/24$

Out: 255.156 ± 0.053 $\chi^2/\text{NDF}: 3938664.8/26$

All: 260.897 ± 0.037 $\chi^2/\text{NDF}: 6945836.1/51$

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_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 : 21.1/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 4.1/8

Left: -0.000+/-0.000 χ^2/NDF : 26.5/17

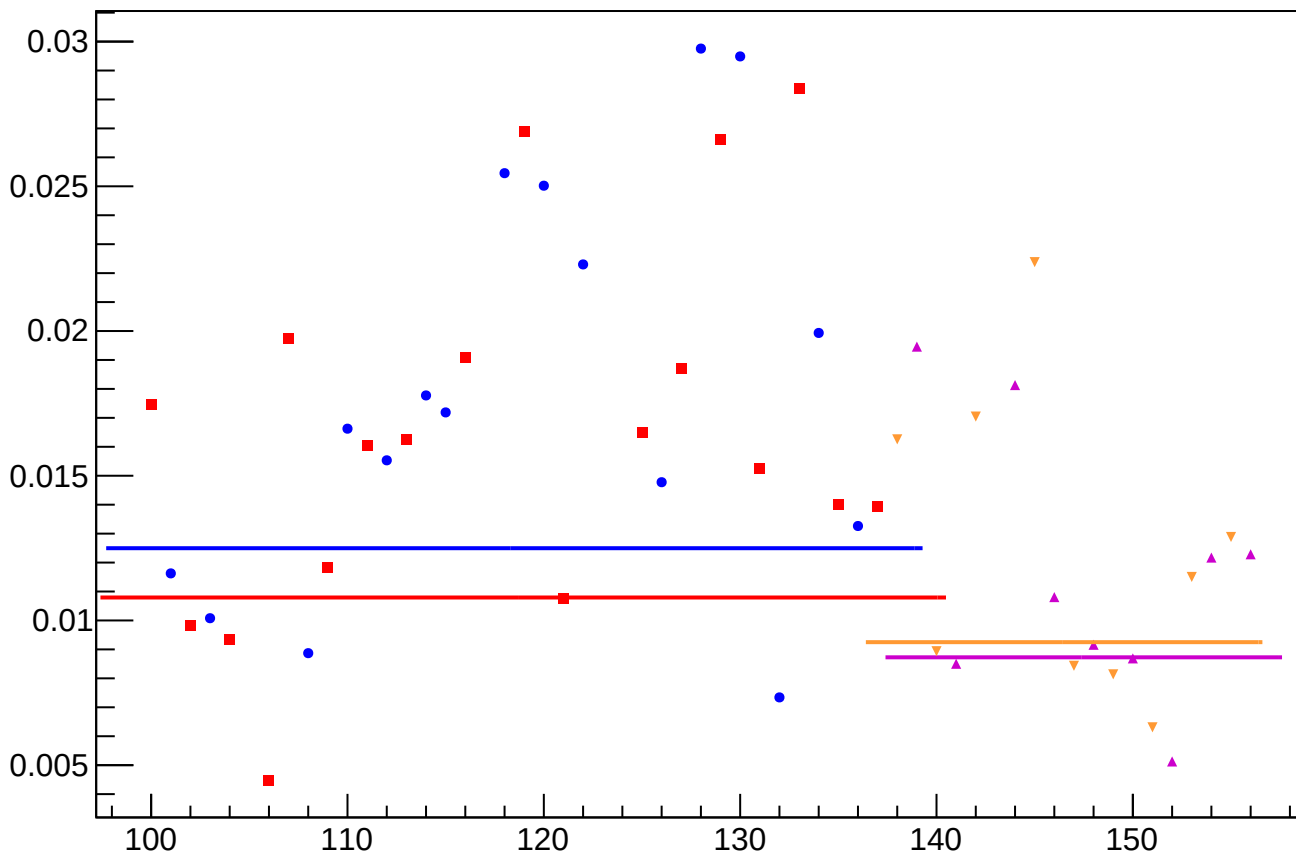
Right: -0.000+/-0.000 χ^2/NDF : 33.1/33

In: -0.000+/-0.000 χ^2/NDF : 20.1/24

Out: -0.000+/-0.000 χ^2/NDF : 39.1/26

All: -0.000+/-0.000 χ^2/NDF : 59.6/51

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: 0.009+/-0.000 χ^2/NDF :1563517.5/8

Right Out: 0.011+/-0.000 χ^2/NDF : 2987826.3/17

Left In: 0.009+/-0.000 χ^2/NDF :2051020.1/8

Left: 0.009+/-0.000 χ^2/NDF : 3635794.3/17

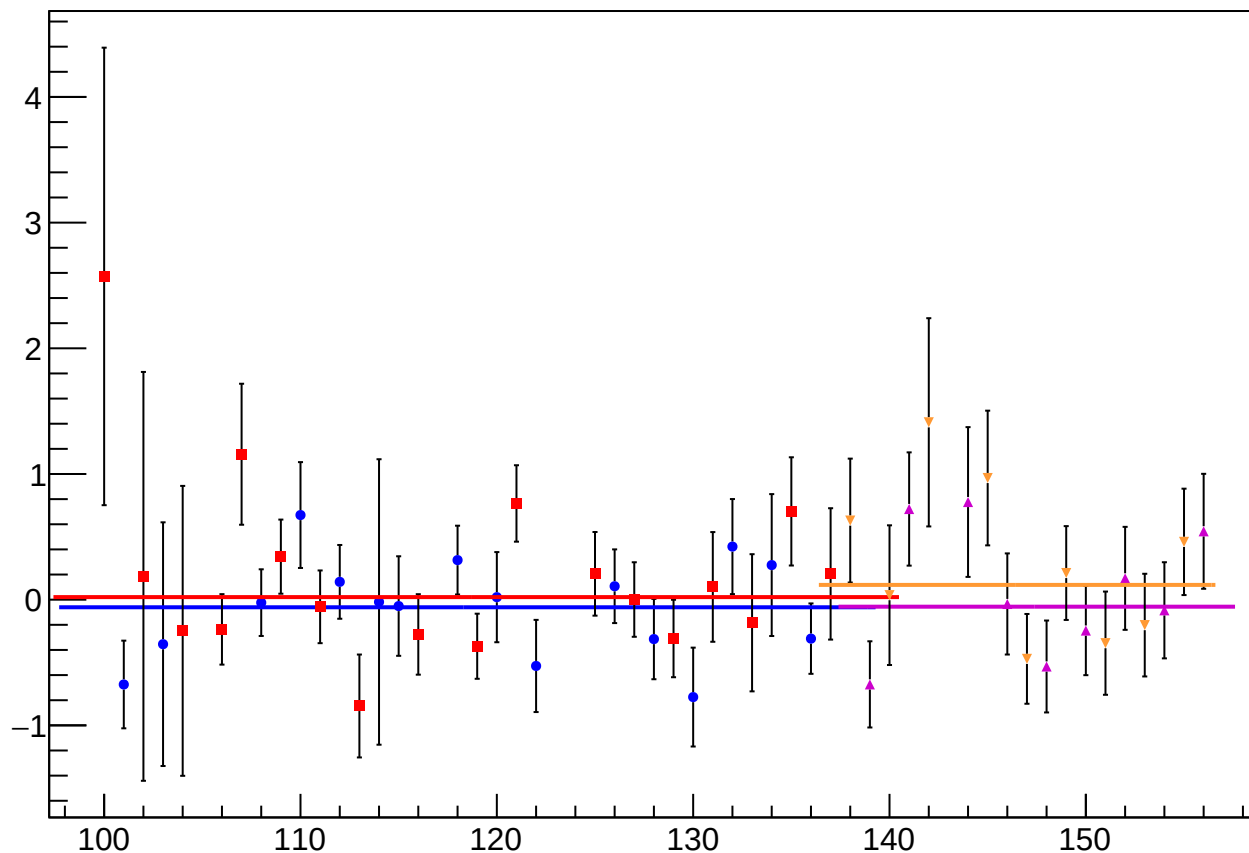
Right: 0.012+/-0.000 χ^2/NDF : 5226474.2/33

In: 0.010+/-0.000 χ^2/NDF :4923199.9/24

Out: 0.010+/-0.000 χ^2/NDF :4686803.4/26

All: 0.010+/-0.000 χ^2/NDF : 9610103.9/51

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: 0.118 ± 0.149 $\chi^2/\text{NDF}: 11.4/8$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.056 ± 0.134 $\chi^2/\text{NDF}: 12.2/8$

Left: 0.022 ± 0.100 $\chi^2/\text{NDF}: 24.3/17$

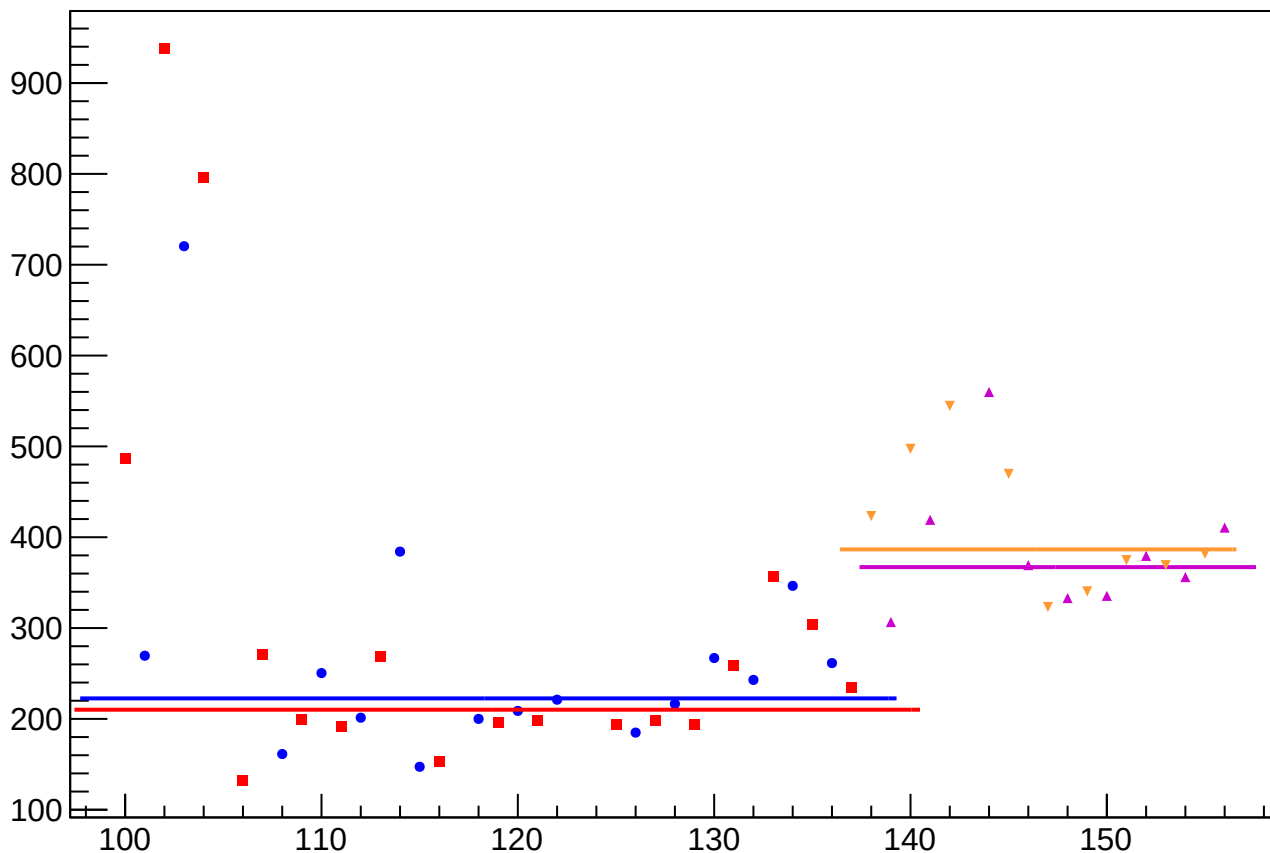
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.059 ± 0.074 $\chi^2/\text{NDF}: 29.5/24$

Out: 0.045 ± 0.075 $\chi^2/\text{NDF}: 37.8/26$

All: -0.008 ± 0.053 $\chi^2/\text{NDF}: 68.3/51$

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567 ± 0.063 $\chi^2/\text{NDF}: 1018760.3/15$

Left Out: 386.617 ± 0.106 $\chi^2/\text{NDF}: 310586.7/8$

Right Out: 210.120 ± 0.062 $\chi^2/\text{NDF}: 1548507.5/17$

Left In: 367.093 ± 0.095 $\chi^2/\text{NDF}: 353226.6/8$

Left: 375.823 ± 0.071 $\chi^2/\text{NDF}: 682702.8/17$

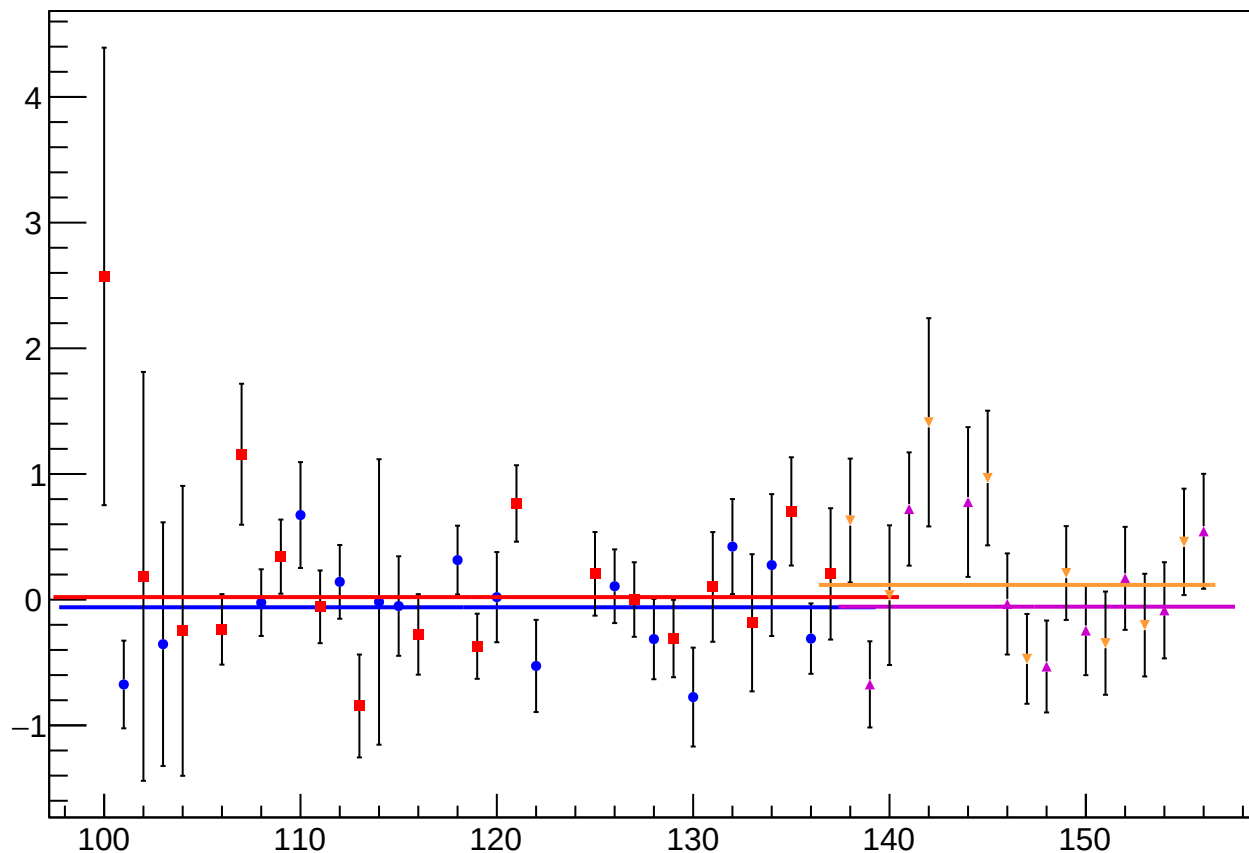
Right: 216.257 ± 0.044 $\chi^2/\text{NDF}: 2587251.9/33$

In: 266.417 ± 0.052 $\chi^2/\text{NDF}: 2984571.9/24$

Out: 255.154 ± 0.053 $\chi^2/\text{NDF}: 3938794.9/26$

All: 260.896 ± 0.037 $\chi^2/\text{NDF}: 6946084.7/51$

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: 0.118 ± 0.149 $\chi^2/\text{NDF}: 11.4/8$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.056 ± 0.134 $\chi^2/\text{NDF}: 12.2/8$

Left: 0.022 ± 0.100 $\chi^2/\text{NDF}: 24.3/17$

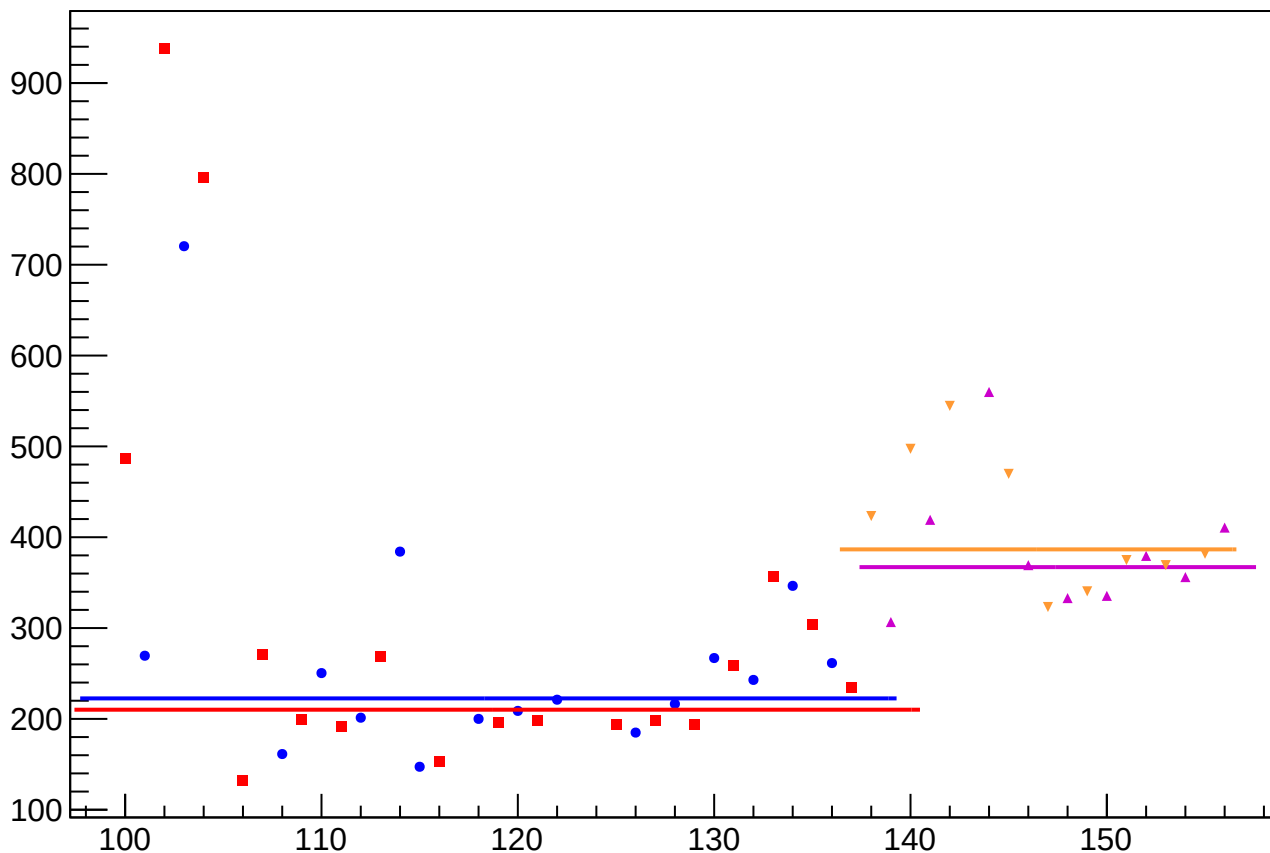
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.059 ± 0.074 $\chi^2/\text{NDF}: 29.5/24$

Out: 0.045 ± 0.075 $\chi^2/\text{NDF}: 37.8/26$

All: -0.008 ± 0.053 $\chi^2/\text{NDF}: 68.3/51$

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567 ± 0.063 $\chi^2/\text{NDF}: 1018760.3/15$

Left Out: 386.617 ± 0.106 $\chi^2/\text{NDF}: 310586.7/8$

Right Out: 210.120 ± 0.062 $\chi^2/\text{NDF}: 1548507.5/17$

Left In: 367.093 ± 0.095 $\chi^2/\text{NDF}: 353226.6/8$

Left: 375.823 ± 0.071 $\chi^2/\text{NDF}: 682702.8/17$

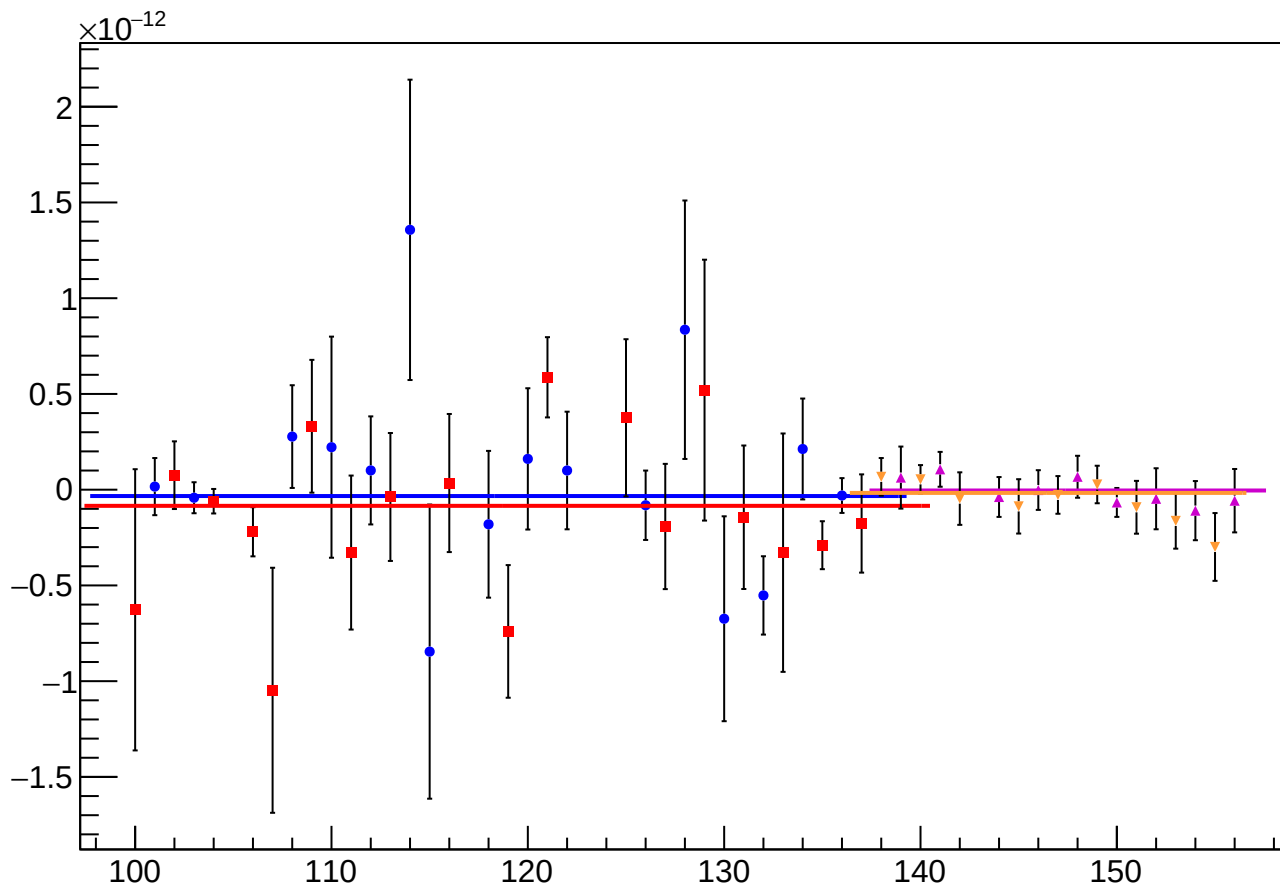
Right: 216.257 ± 0.044 $\chi^2/\text{NDF}: 2587251.9/33$

In: 266.417 ± 0.052 $\chi^2/\text{NDF}: 2984571.9/24$

Out: 255.154 ± 0.053 $\chi^2/\text{NDF}: 3938794.9/26$

All: 260.896 ± 0.037 $\chi^2/\text{NDF}: 6946084.7/51$

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 : 6.0/8

Right Out: -0.000+/-0.000 χ^2/NDF : 25.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.5/8

Left: -0.000+/-0.000 χ^2/NDF : 9.6/17

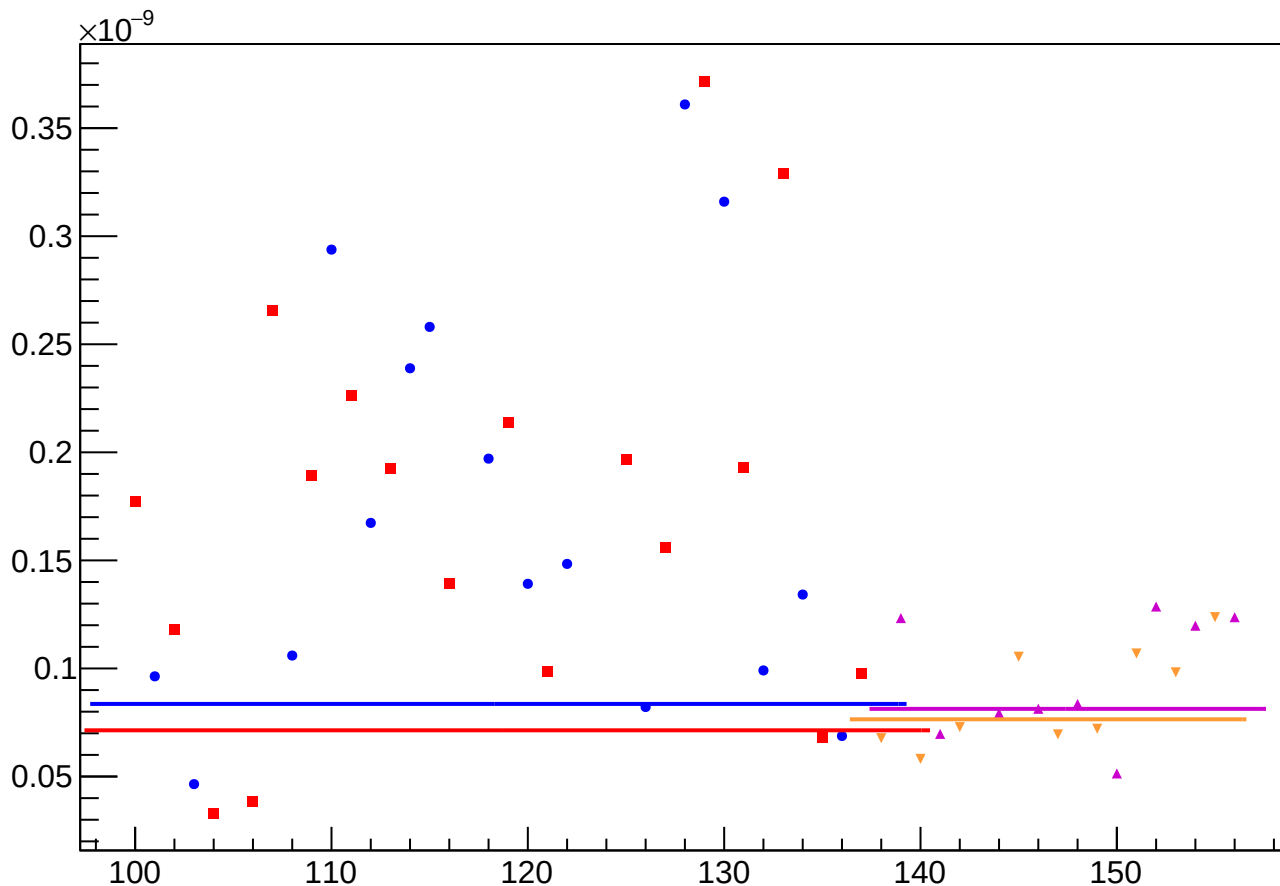
Right: -0.000+/-0.000 χ^2/NDF : 43.7/33

In: -0.000+/-0.000 χ^2/NDF : 21.0/24

Out: -0.000+/-0.000 χ^2/NDF : 33.2/26

All: -0.000+/-0.000 χ^2/NDF : 54.7/51

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 : 520800.4/8

Right Out: 0.000+/-0.000 χ^2/NDF : 3745180.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 913535.9/8

Left: 0.000+/-0.000 χ^2/NDF : 1451243.9/17

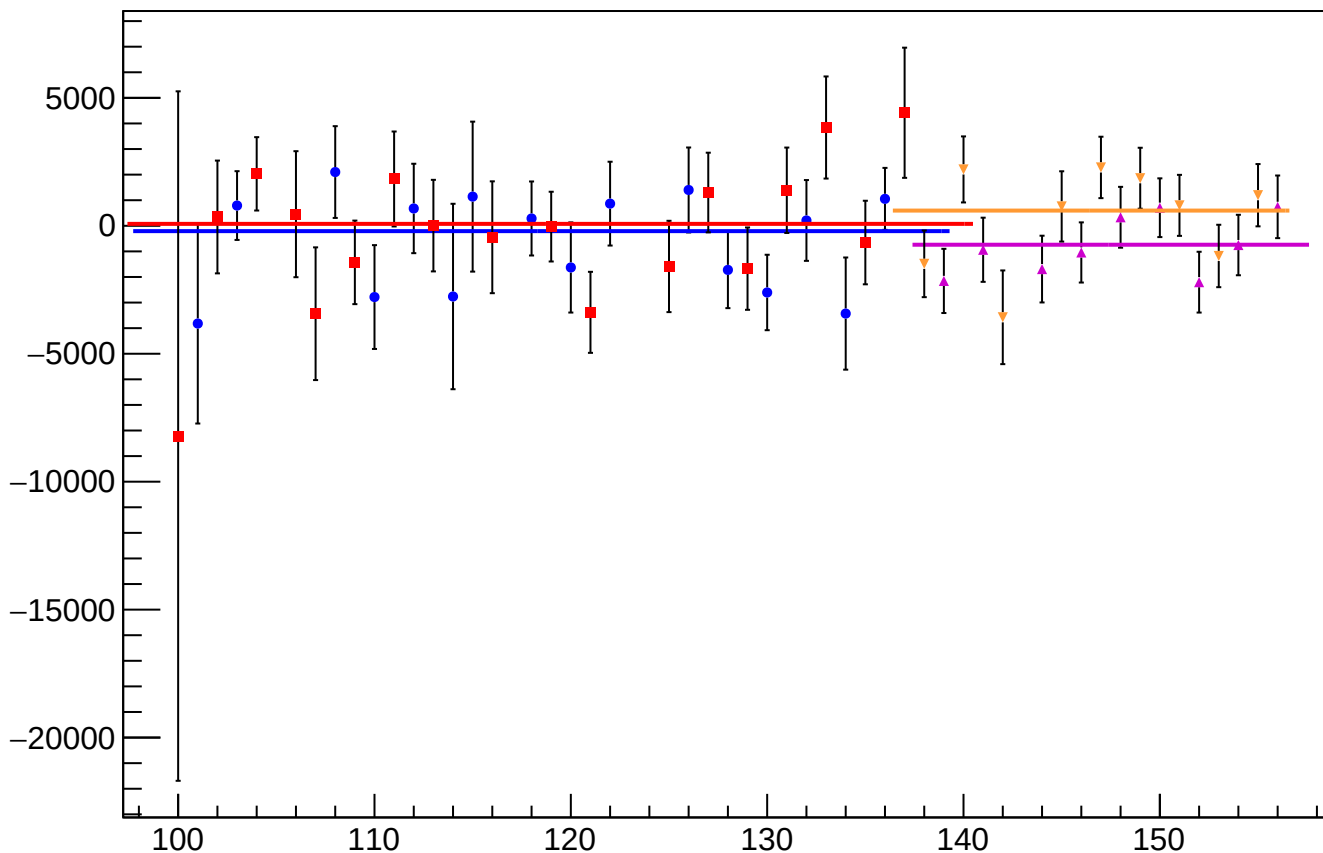
Right: 0.000+/-0.000 χ^2/NDF : 6051897.3/33

In: 0.000+/-0.000 χ^2/NDF : 3151858.8/24

Out: 0.000+/-0.000 χ^2/NDF : 4281506.7/26

All: 0.000+/-0.000 χ^2/NDF : 7506749.0/51

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: 595.171 ± 427.606 χ^2/NDF : 14.8/8

Right Out: 75.616 ± 430.760 χ^2/NDF : 20.7/17

Left In: -739.576 ± 403.469 χ^2/NDF : 7.3/8

Left: -110.936 ± 293.458 χ^2/NDF : 27.2/17

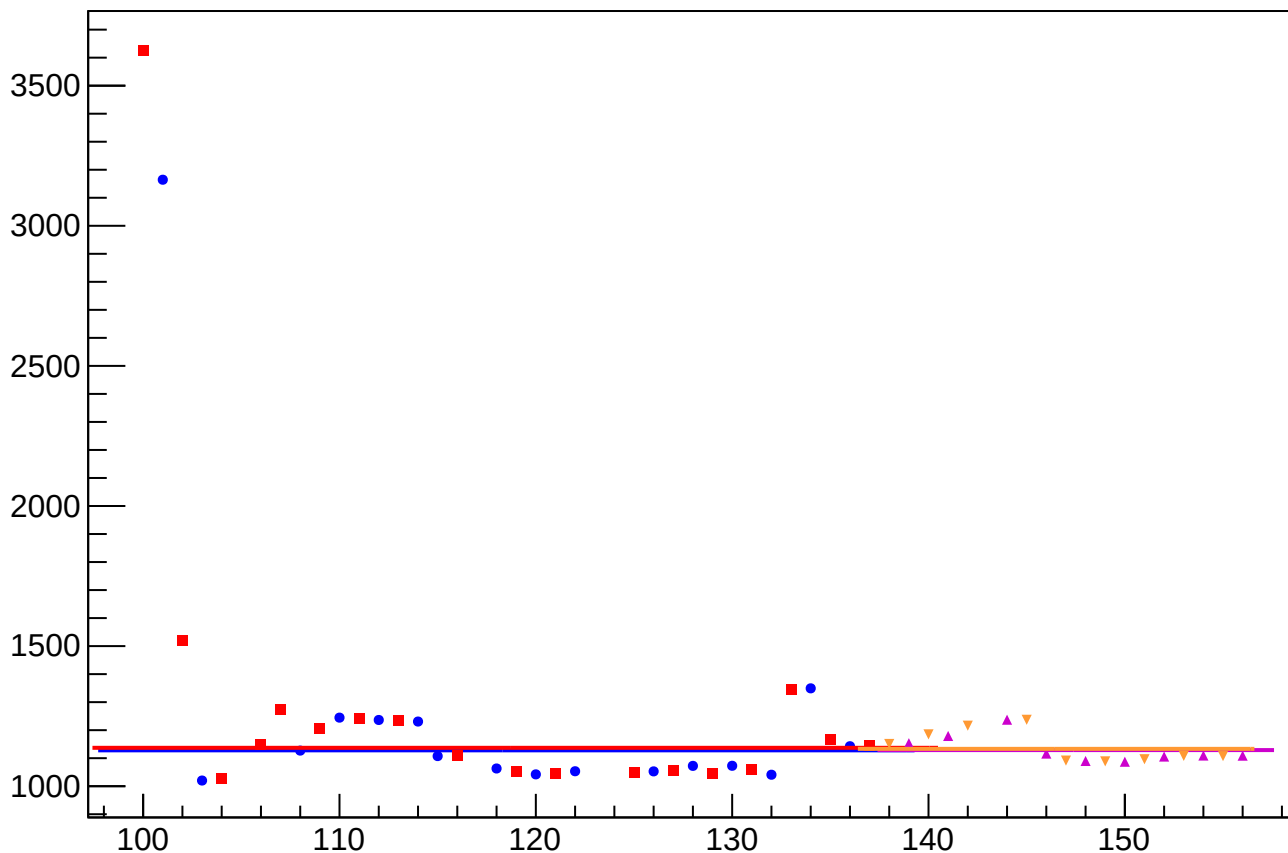
Right: -66.891 ± 304.024 χ^2/NDF : 35.6/33

In: -490.330 ± 293.957 χ^2/NDF : 22.9/24

Out: 337.302 ± 303.472 χ^2/NDF : 36.2/26

All: -89.692 ± 211.143 χ^2/NDF : 62.9/51

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: 1133.313 ± 0.302 χ^2/NDF : 27994.7/8

Right Out: 1137.041 ± 0.304 χ^2/NDF : 220086.1/17

Left In: 1128.909 ± 0.285 χ^2/NDF : 24637.5/8

Left: 1130.983 ± 0.208 χ^2/NDF : 52744.4/17

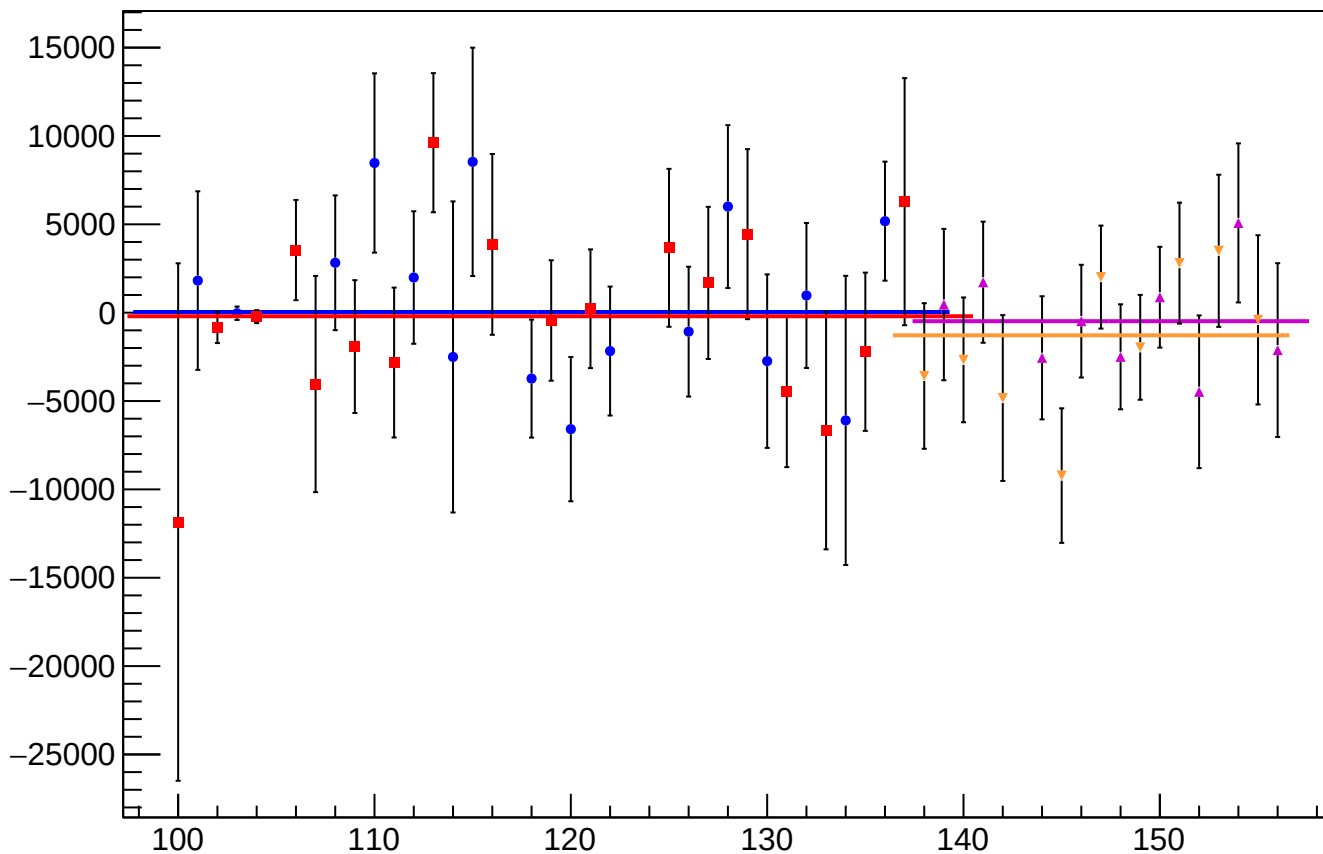
Right: 1132.516 ± 0.215 χ^2/NDF : 841922.9/33

In: 1128.486 ± 0.208 χ^2/NDF : 646036.7/24

Out: 1135.167 ± 0.214 χ^2/NDF : 248156.4/26

All: 1131.723 ± 0.149 χ^2/NDF : 894693.6/51

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: -1280.954+/-1223.718 χ^2/NDF : 9.4/8

Right Out: -201.642+/-322.545 χ^2/NDF : 15.6/17

Left In: -481.455+/-1194.573 χ^2/NDF : 4.0/8

Left: -871.570+/-854.809 χ^2/NDF : 13.6/17

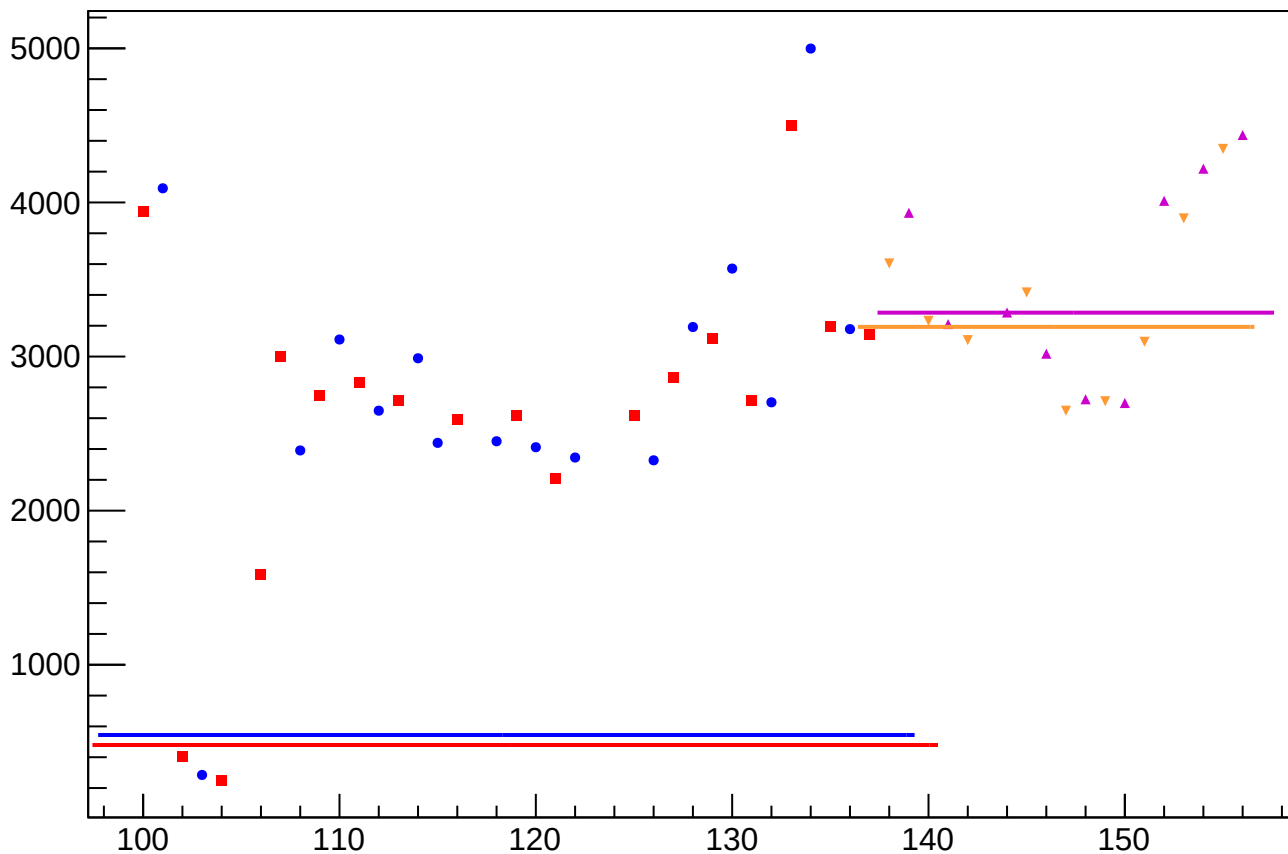
Right: -94.022+/-239.526 χ^2/NDF : 30.7/33

In: -4.457+/-342.625 χ^2/NDF : 19.0/24

Out: -271.754+/-311.893 χ^2/NDF : 25.8/26

All: -150.628+/-230.643 χ^2/NDF : 45.1/51

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 544.336 $\pm$ 0.253 χ^2 /NDF: 9682967.9/15

Left Out: 3192.591 $\pm$ 0.865 χ^2 /NDF: 321900.4/8

Right Out: 479.253 $\pm$ 0.228 χ^2 /NDF: 9187985.0/17

Left In: 3284.860 $\pm$ 0.845 χ^2 /NDF: 469255.3/8

Left: 3239.837 $\pm$ 0.604 χ^2 /NDF: 796977.9/17

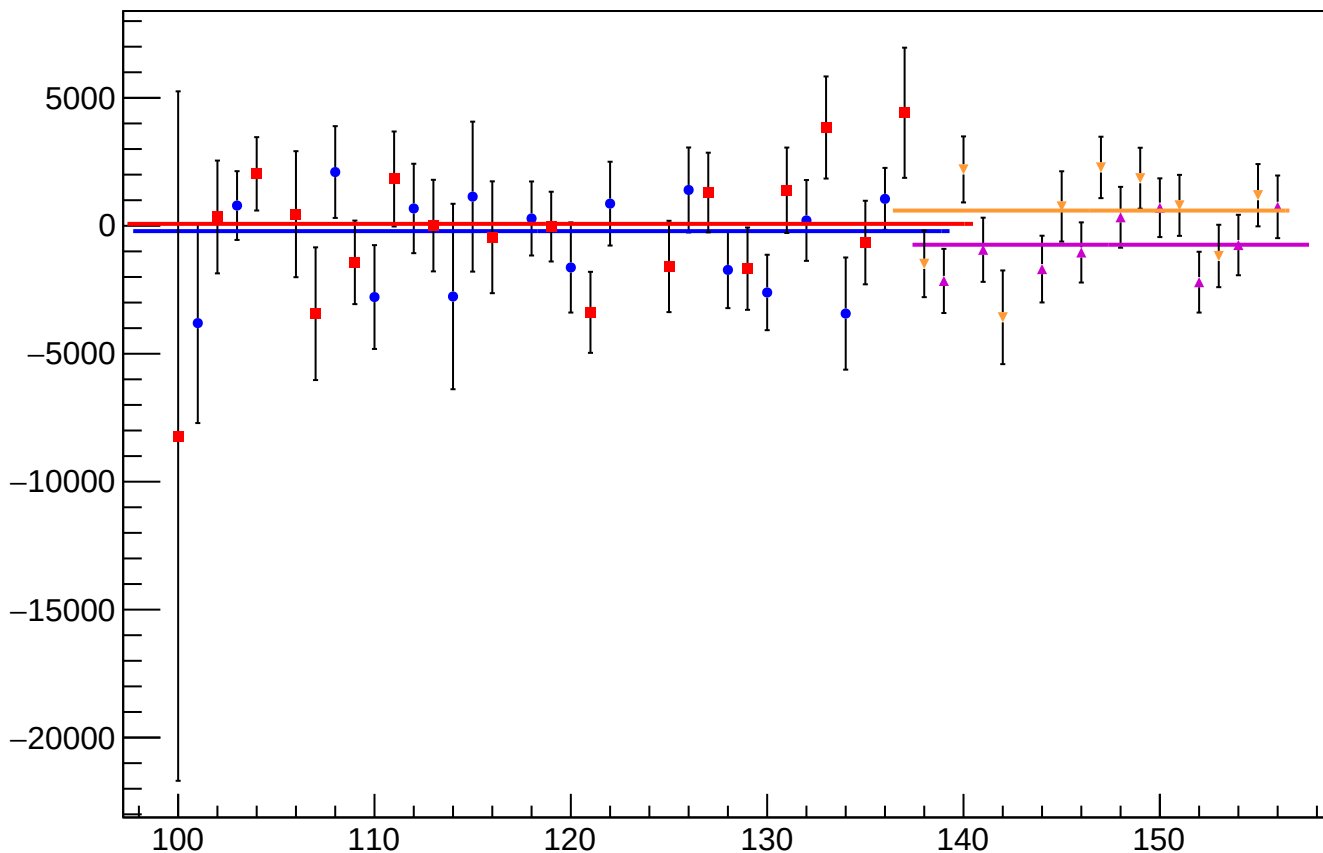
Right: 508.444 $\pm$ 0.169 χ^2 /NDF: 18907476.4/33

In: 769.783 $\pm$ 0.242 χ^2 /NDF: 19812499.0/24

Out: 655.512 $\pm$ 0.221 χ^2 /NDF: 18703899.8/26

All: 707.294 $\pm$ 0.163 χ^2 /NDF: 38638056.0/51

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: 595.195 ± 427.606 χ^2/NDF : 14.8/8

Right Out: 75.761 ± 430.760 χ^2/NDF : 20.7/17

Left In: -739.672 ± 403.469 χ^2/NDF : 7.3/8

Left: -110.975 ± 293.458 χ^2/NDF : 27.2/17

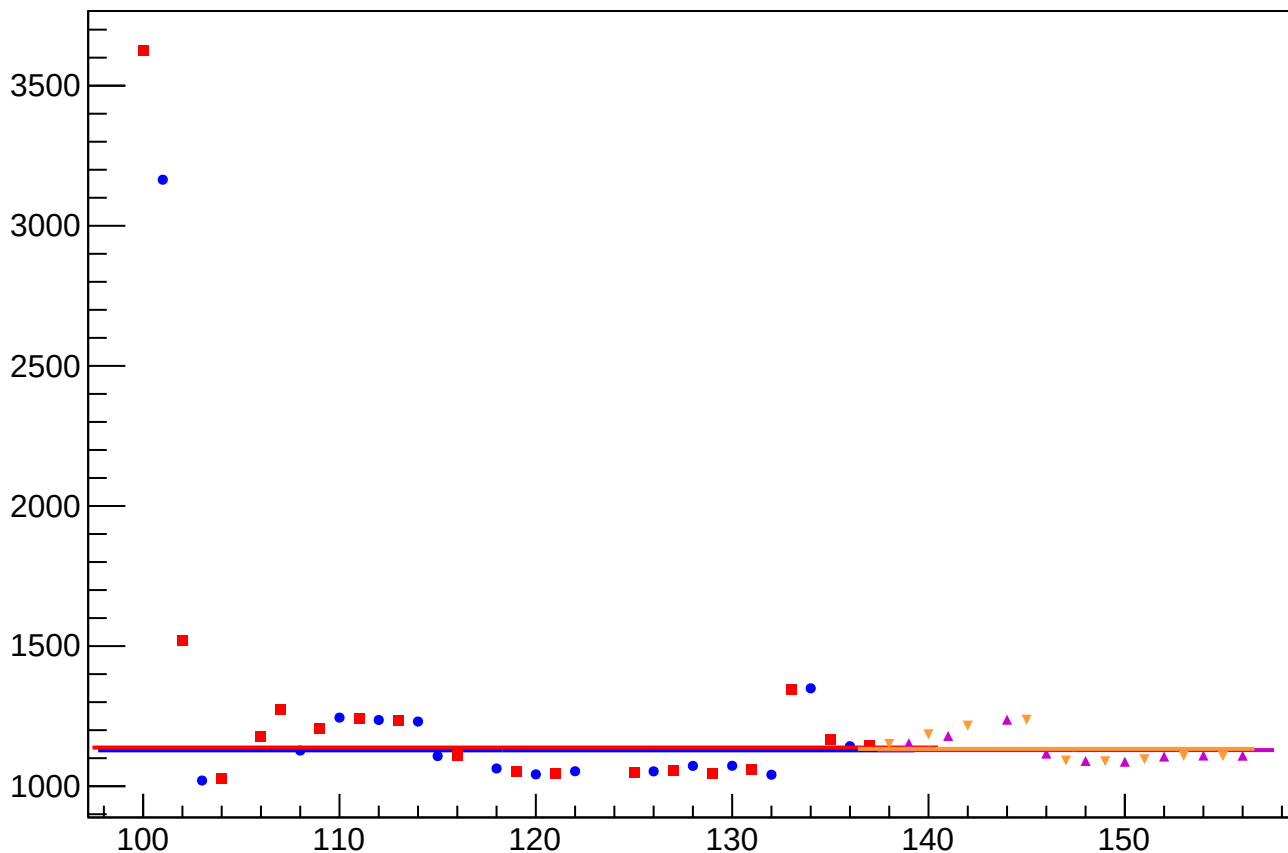
Right: -66.705 ± 304.024 χ^2/NDF : 35.6/33

In: -490.274 ± 293.957 χ^2/NDF : 22.9/24

Out: 337.387 ± 303.472 χ^2/NDF : 36.2/26

All: -89.623 ± 211.143 χ^2/NDF : 62.9/51

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: 1133.313+/-0.302 χ^2/NDF : 27994.7/8

Right Out: 1138.000+/-0.304 χ^2/NDF : 220624.5/17

Left In: 1128.909+/-0.285 χ^2/NDF : 24637.5/8

Left: 1130.983+/-0.208 χ^2/NDF : 52744.4/17

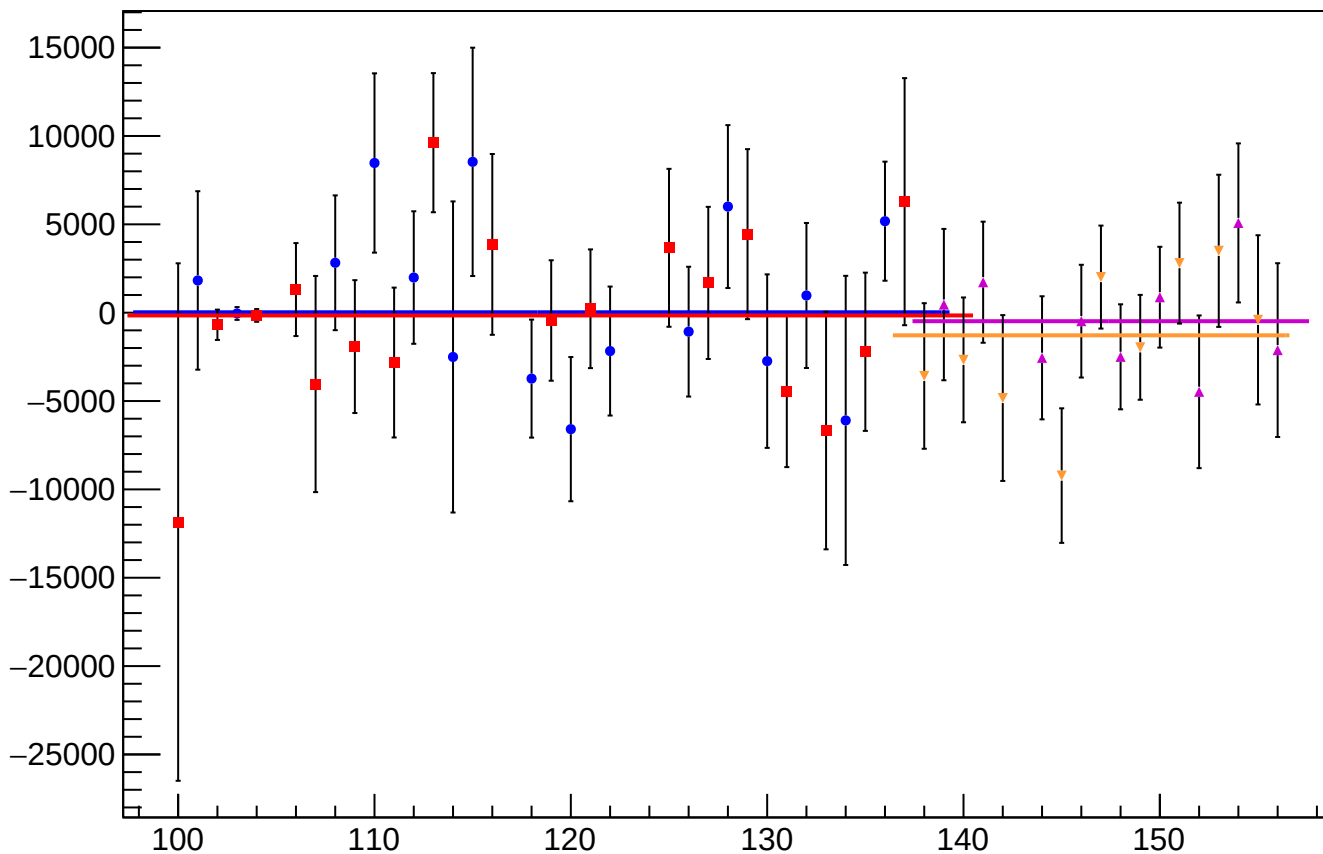
Right: 1132.987+/-0.215 χ^2/NDF : 842560.5/33

In: 1128.486+/-0.208 χ^2/NDF : 646037.8/24

Out: 1135.641+/-0.215 χ^2/NDF : 248738.4/26

All: 1131.950+/-0.149 χ^2/NDF : 895349.9/51

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: -1280.883+/-1223.717 χ^2/NDF : 9.4/8

Right Out: -156.231+/-317.367 χ^2/NDF : 14.0/17

Left In: -481.475+/-1194.573 χ^2/NDF : 4.0/8

Left: -871.546+/-854.808 χ^2/NDF : 13.6/17

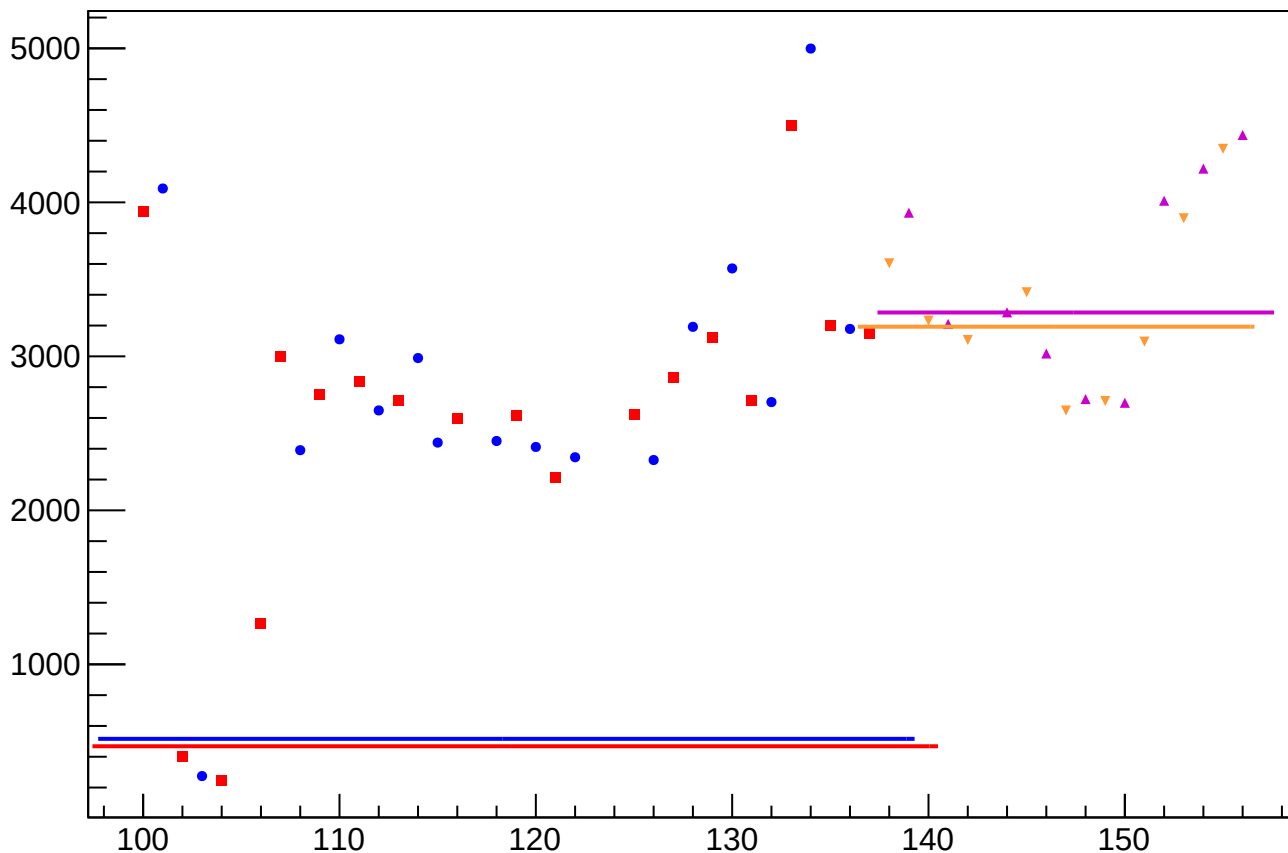
Right: -74.579+/-233.424 χ^2/NDF : 29.0/33

In: -16.991+/-331.033 χ^2/NDF : 19.0/24

Out: -227.109+/-307.204 χ^2/NDF : 24.2/26

All: -129.884+/-225.179 χ^2/NDF : 43.4/51

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: 3192.587+/-0.865 χ^2/NDF : 321898.8/8

Right Out: 468.060+/-0.224 χ^2/NDF : 9111222.0/17

Left In: 3284.859+/-0.845 χ^2/NDF : 469258.7/8

Left: 3239.835+/-0.604 χ^2/NDF : 796980.1/17

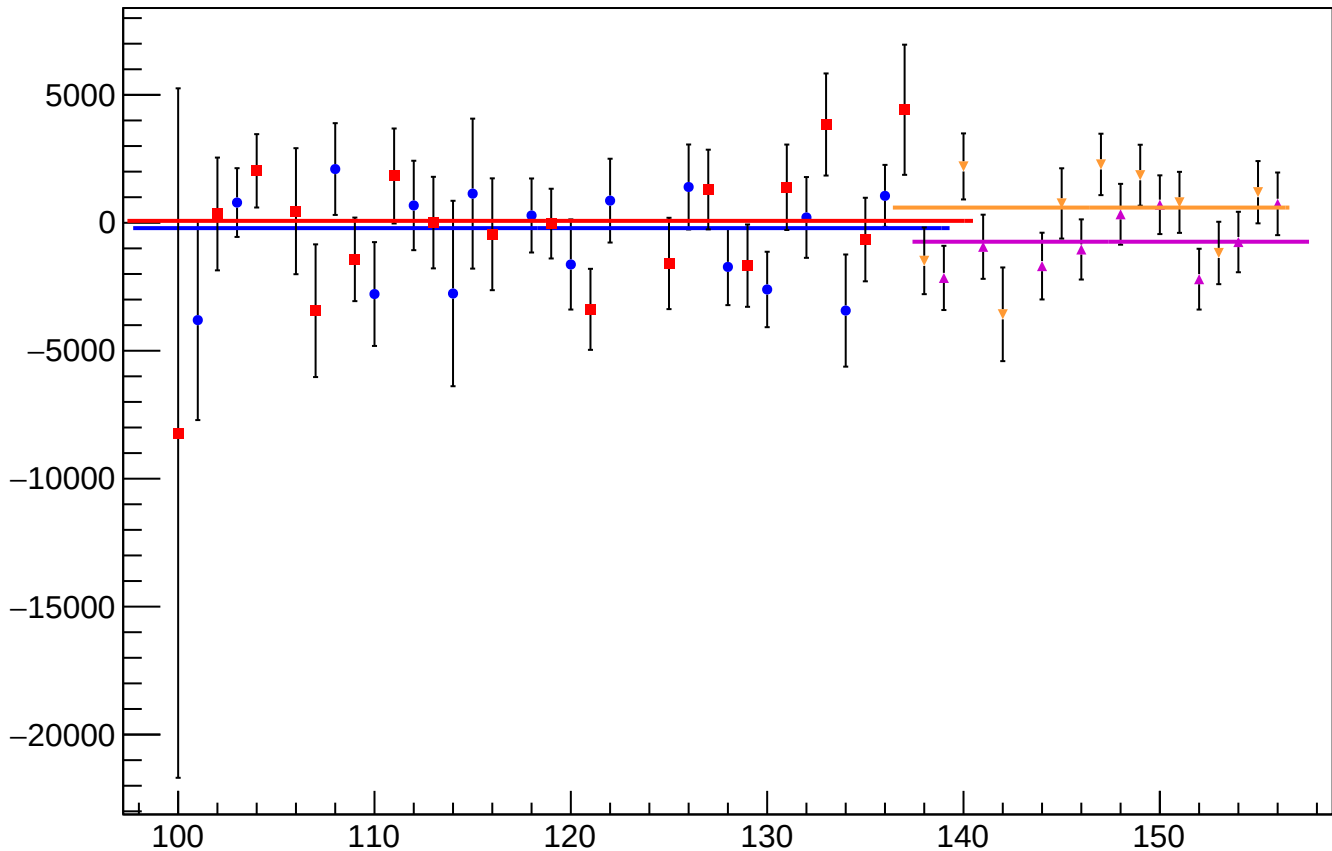
Right: 490.202+/-0.165 χ^2/NDF : 18967100.3/33

In: 728.900+/-0.234 χ^2/NDF : 20221673.2/24

Out: 639.765+/-0.217 χ^2/NDF : 18722359.4/26

All: 681.009+/-0.159 χ^2/NDF : 39021943.2/53

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.110 ± 429.155 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 595.195 ± 427.606 $\chi^2/\text{NDF}: 14.8/8$

Right Out: 75.761 ± 430.760 $\chi^2/\text{NDF}: 20.7/17$

Left In: -739.672 ± 403.469 $\chi^2/\text{NDF}: 7.3/8$

Left: -110.975 ± 293.458 $\chi^2/\text{NDF}: 27.2/17$

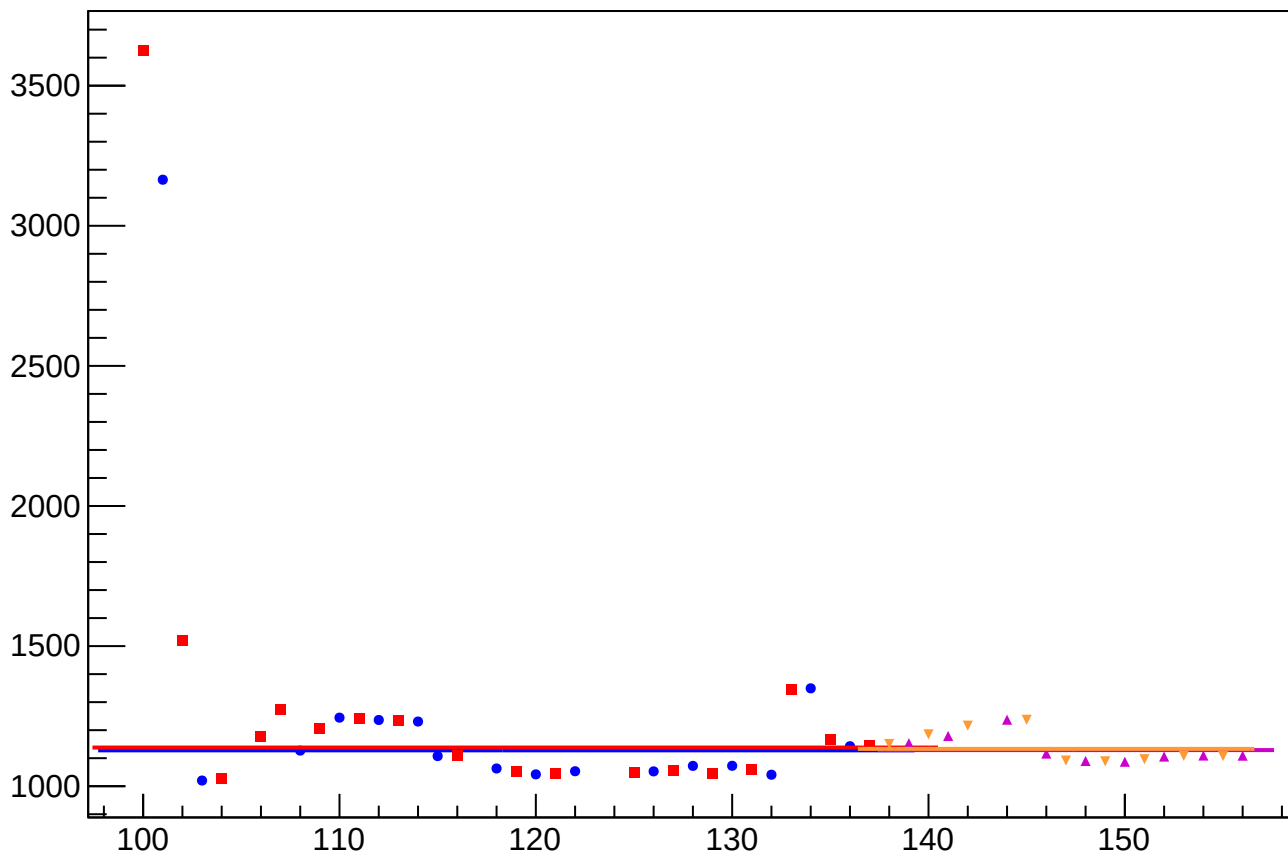
Right: -66.705 ± 304.024 $\chi^2/\text{NDF}: 35.6/33$

In: -490.274 ± 293.957 $\chi^2/\text{NDF}: 22.9/24$

Out: 337.387 ± 303.472 $\chi^2/\text{NDF}: 36.2/26$

All: -89.623 ± 211.143 $\chi^2/\text{NDF}: 62.9/51$

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: 1133.313+/-0.302 χ^2/NDF : 27994.7/8

Right Out: 1138.000+/-0.304 χ^2/NDF : 220624.5/17

Left In: 1128.909+/-0.285 χ^2/NDF : 24637.5/8

Left: 1130.983+/-0.208 χ^2/NDF : 52744.4/17

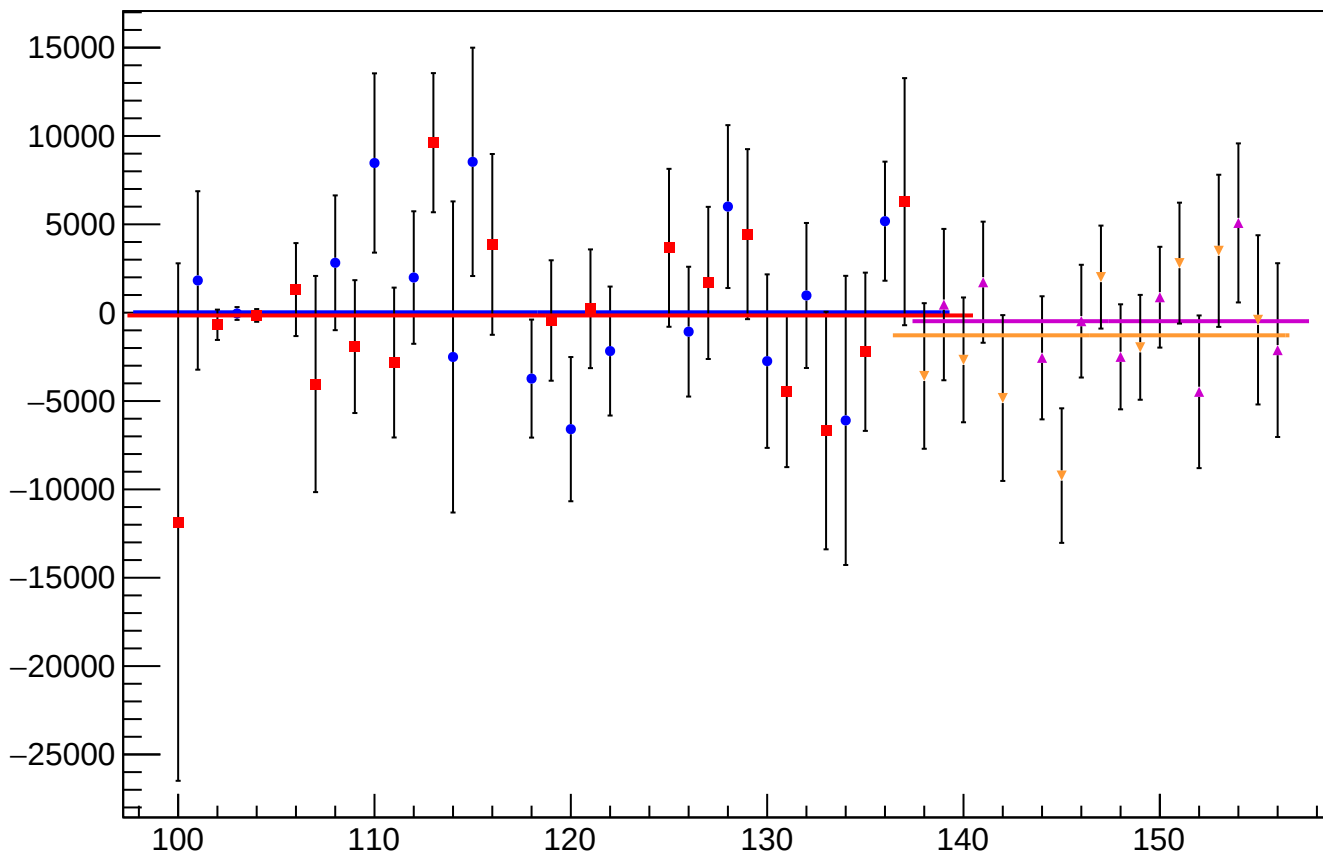
Right: 1132.987+/-0.215 χ^2/NDF : 842560.5/33

In: 1128.486+/-0.208 χ^2/NDF : 646037.8/24

Out: 1135.641+/-0.215 χ^2/NDF : 248738.4/26

All: 1131.950+/-0.149 χ^2/NDF : 895349.9/51

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 21.645 ± 344.525 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -1280.883 ± 1223.717 $\chi^2/\text{NDF}: 9.4/8$

Right Out: -156.231 ± 317.367 $\chi^2/\text{NDF}: 14.0/17$

Left In: -481.475 ± 1194.573 $\chi^2/\text{NDF}: 4.0/8$

Left: -871.546 ± 854.808 $\chi^2/\text{NDF}: 13.6/17$

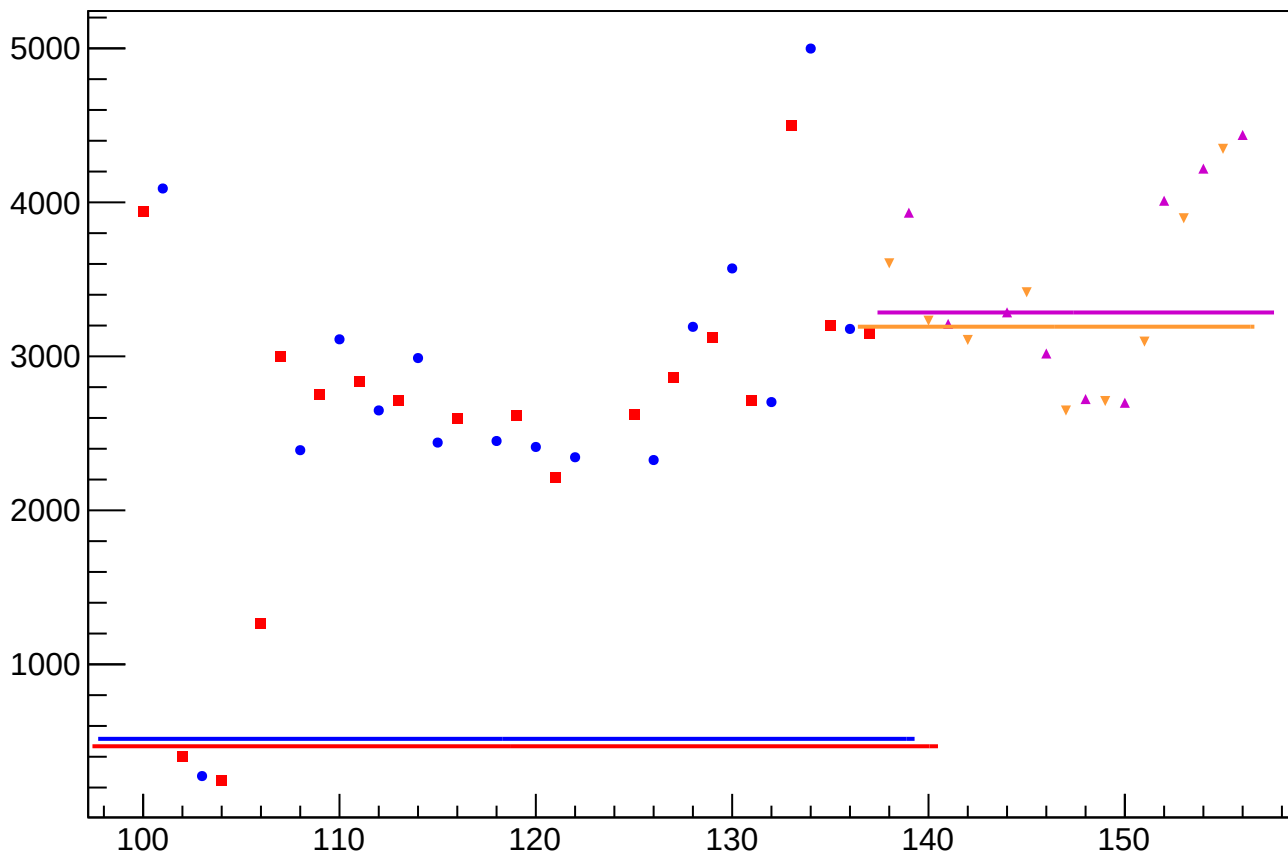
Right: -74.579 ± 233.424 $\chi^2/\text{NDF}: 29.0/33$

In: -16.991 ± 331.033 $\chi^2/\text{NDF}: 19.0/24$

Out: -227.109 ± 307.204 $\chi^2/\text{NDF}: 24.2/26$

All: -129.884 ± 225.179 $\chi^2/\text{NDF}: 43.4/51$

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: 3192.587+/-0.865 χ^2/NDF : 321898.8/8

Right Out: 468.060+/-0.224 χ^2/NDF : 9111222.0/17

Left In: 3284.859+/-0.845 χ^2/NDF : 469258.7/8

Left: 3239.835+/-0.604 χ^2/NDF : 796980.1/17

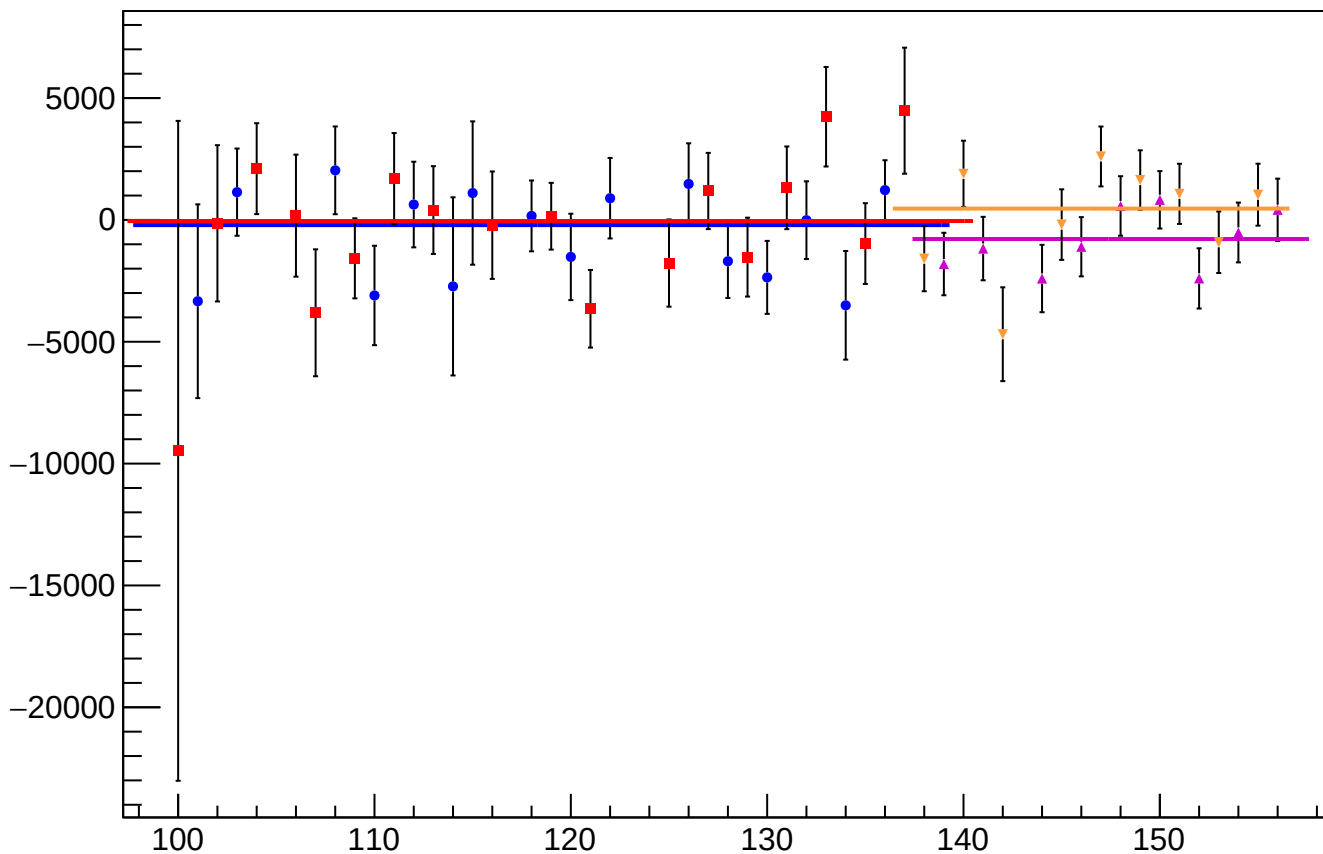
Right: 490.202+/-0.165 χ^2/NDF : 18967100.3/33

In: 728.900+/-0.234 χ^2/NDF : 20221673.2/24

Out: 639.765+/-0.217 χ^2/NDF : 18722359.4/26

All: 681.009+/-0.159 χ^2/NDF : 39021943.2/53

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: 465.589+/-443.579 χ^2/NDF : 16.4/8

Right Out: -45.535+/-447.221 χ^2/NDF : 21.7/17

Left In: -783.687+/-418.139 χ^2/NDF : 7.9/8

Left: -195.899+/-304.265 χ^2/NDF : 28.5/17

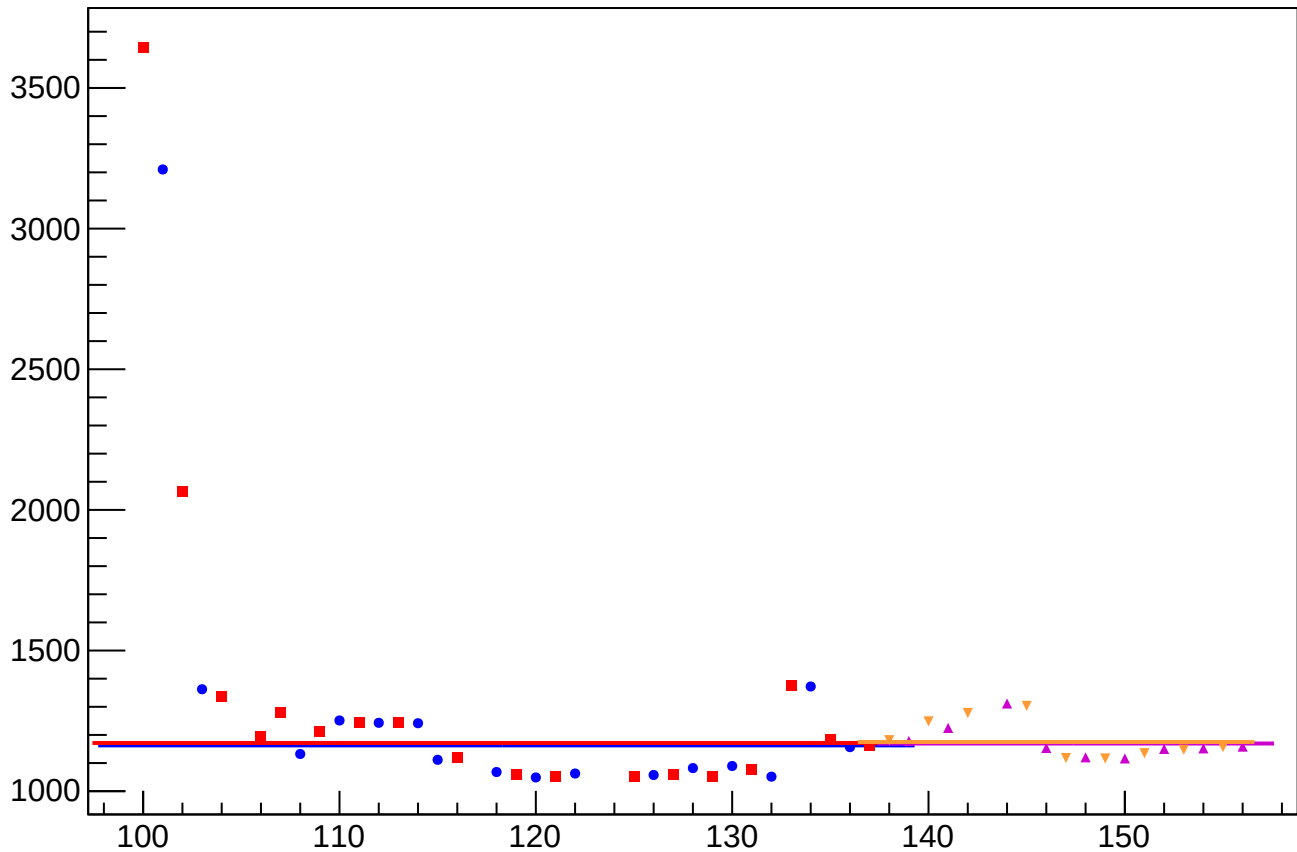
Right: -130.161+/-314.617 χ^2/NDF : 36.1/33

In: -514.640+/-303.976 χ^2/NDF : 23.1/24

Out: 212.116+/-314.937 χ^2/NDF : 38.7/26

All: -164.129+/-218.716 χ^2/NDF : 64.6/51

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: 1174.993+/-0.314 χ^2/NDF : 39687.3/8

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.8/17

Left In: 1169.497+/-0.296 χ^2/NDF : 33552.9/8

Left: 1172.083+/-0.215 χ^2/NDF : 73402.8/17

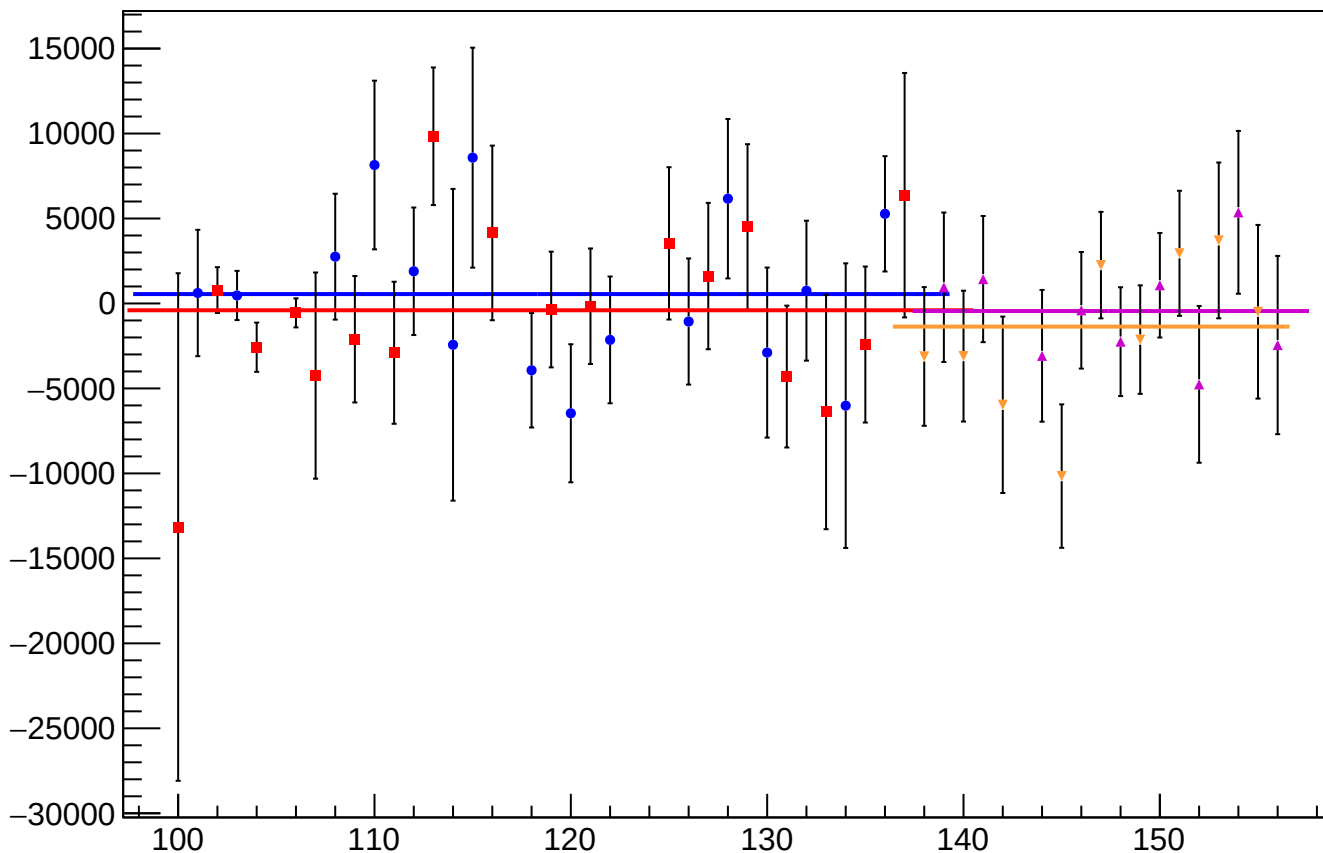
Right: 1167.094+/-0.222 χ^2/NDF : 967365.3/33

In: 1166.364+/-0.215 χ^2/NDF : 669144.6/24

Out: 1173.220+/-0.223 χ^2/NDF : 371392.5/26

All: 1169.671+/-0.155 χ^2/NDF : 1041028.0/51

asym_us_avg_atlr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 552.517 $\pm$ 874.128 χ^2 /NDF: 14.4/15

Left Out: -1362.119 $\pm$ 1312.562 χ^2 /NDF:9.5/8

Right Out: -400.432 $\pm$ 565.871 χ^2 /NDF: 16.7/17

Left In: -446.278 $\pm$ 1284.641 χ^2 /NDF:3.9/8

Left: -894.354 $\pm$ 918.091 χ^2 /NDF: 13.7/17

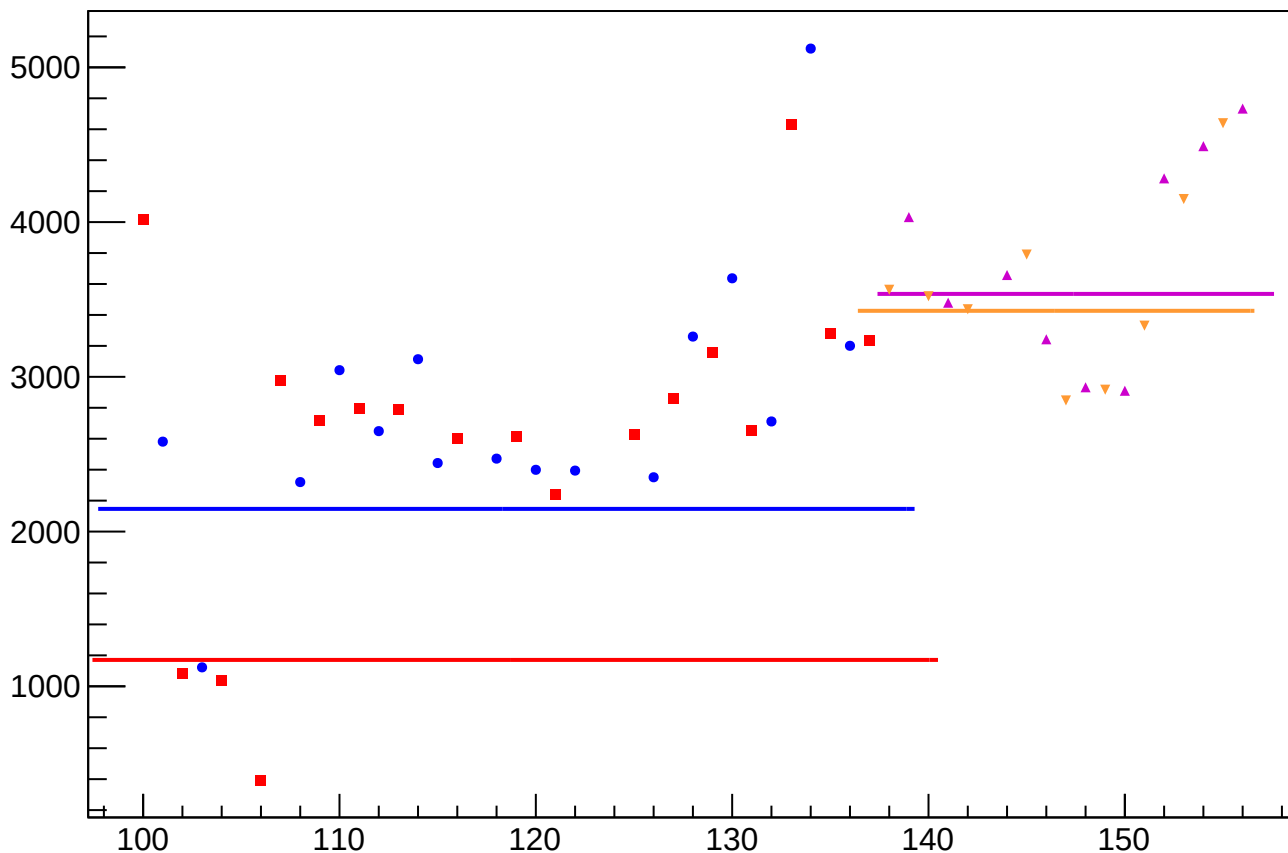
Right: -119.015 $\pm$ 475.024 χ^2 /NDF: 31.9/33

In: 236.423 $\pm$ 722.690 χ^2 /NDF:18.7/24

Out: -551.160 $\pm$ 519.637 χ^2 /NDF:26.7/26

All: -282.746 $\pm$ 421.897 χ^2 /NDF: 46.1/51

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: 3426.699+/-0.928 χ^2/NDF : 301183.3/8

Right Out: 1170.573+/-0.400 χ^2/NDF : 5817478.8/17

Left In: 3535.944+/-0.908 χ^2/NDF : 432541.8/8

Left: 3482.496+/-0.649 χ^2/NDF : 740801.4/17

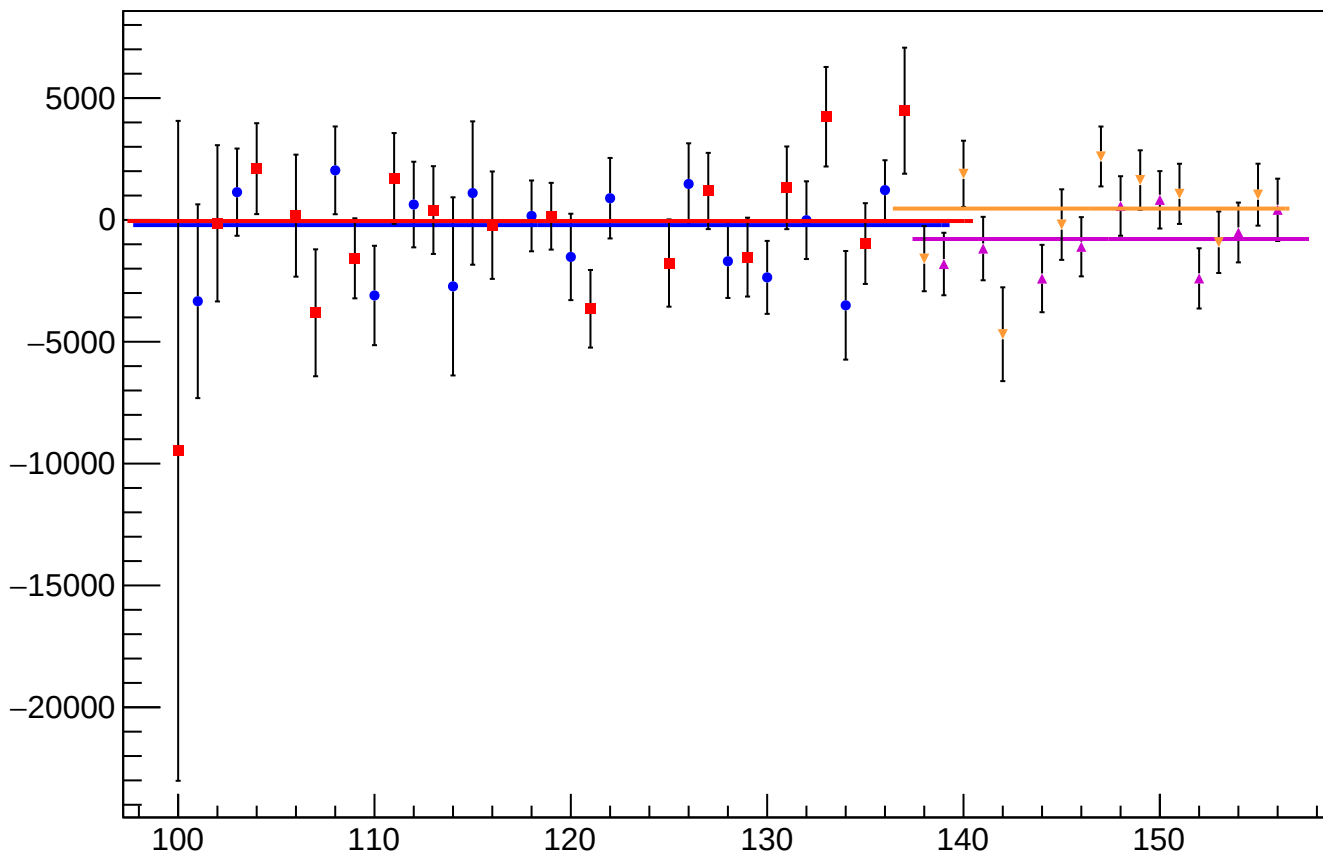
Right: 1458.811+/-0.336 χ^2/NDF : 9549375.1/33

In: 2586.305+/-0.511 χ^2/NDF : 4006196.9/24

Out: 1524.182+/-0.367 χ^2/NDF : 11101559.0/26

All: 1886.161+/-0.298 χ^2/NDF : 17955412.5/5

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: 465.584+/-443.579 χ^2/NDF : 16.4/8

Right Out: -45.539+/-447.221 χ^2/NDF : 21.7/17

Left In: -783.684+/-418.139 χ^2/NDF : 7.9/8

Left: -195.900+/-304.265 χ^2/NDF : 28.5/17

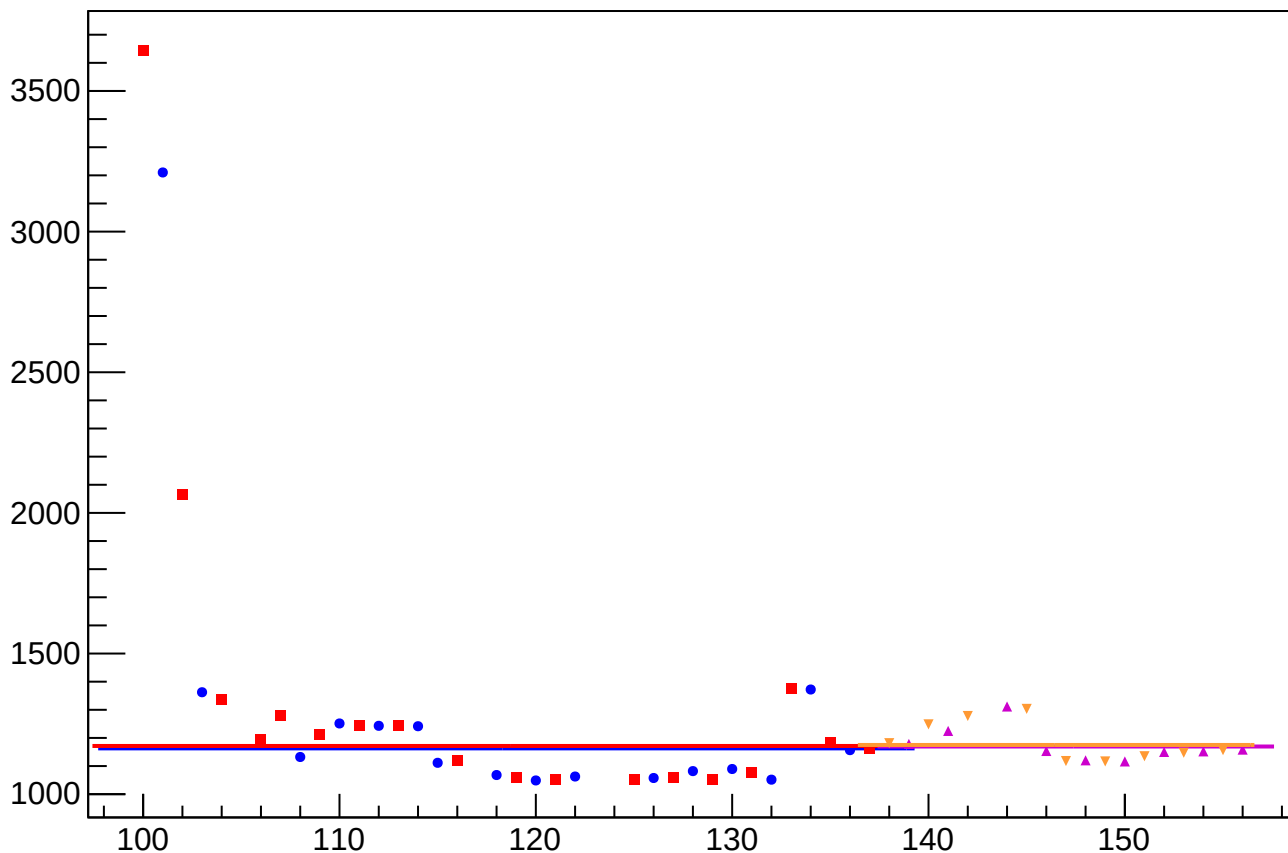
Right: -130.164+/-314.617 χ^2/NDF : 36.1/33

In: -514.639+/-303.976 χ^2/NDF : 23.1/24

Out: 212.112+/-314.937 χ^2/NDF : 38.7/26

All: -164.131+/-218.716 χ^2/NDF : 64.6/51

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: 1174.994+/-0.314 χ^2/NDF : 39687.8/8

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.4/17

Left In: 1169.498+/-0.296 χ^2/NDF : 33553.1/8

Left: 1172.084+/-0.215 χ^2/NDF : 73403.4/17

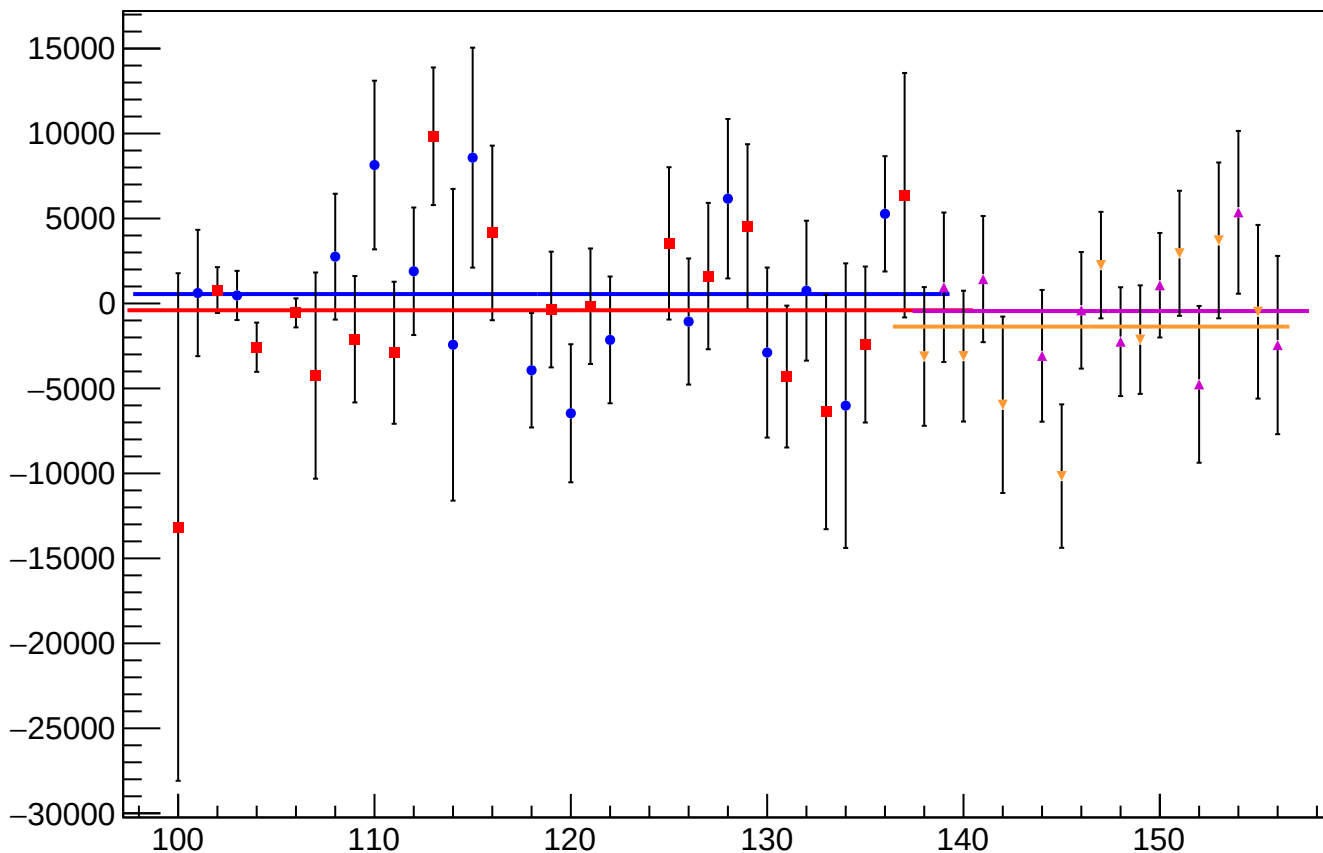
Right: 1167.094+/-0.222 χ^2/NDF : 967365.1/33

In: 1166.364+/-0.215 χ^2/NDF : 669144.9/24

Out: 1173.221+/-0.223 χ^2/NDF : 371392.6/26

All: 1169.672+/-0.155 χ^2/NDF : 1041028.5/51

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: -1362.121 $\pm$ 1312.564 χ^2 /NDF:9.5/8

Right Out: -400.433 $\pm$ 565.864 χ^2 /NDF: 16.7/17

Left In: -446.275 $\pm$ 1284.643 χ^2 /NDF:3.9/8

Left: -894.354 $\pm$ 918.092 χ^2 /NDF: 13.7/17

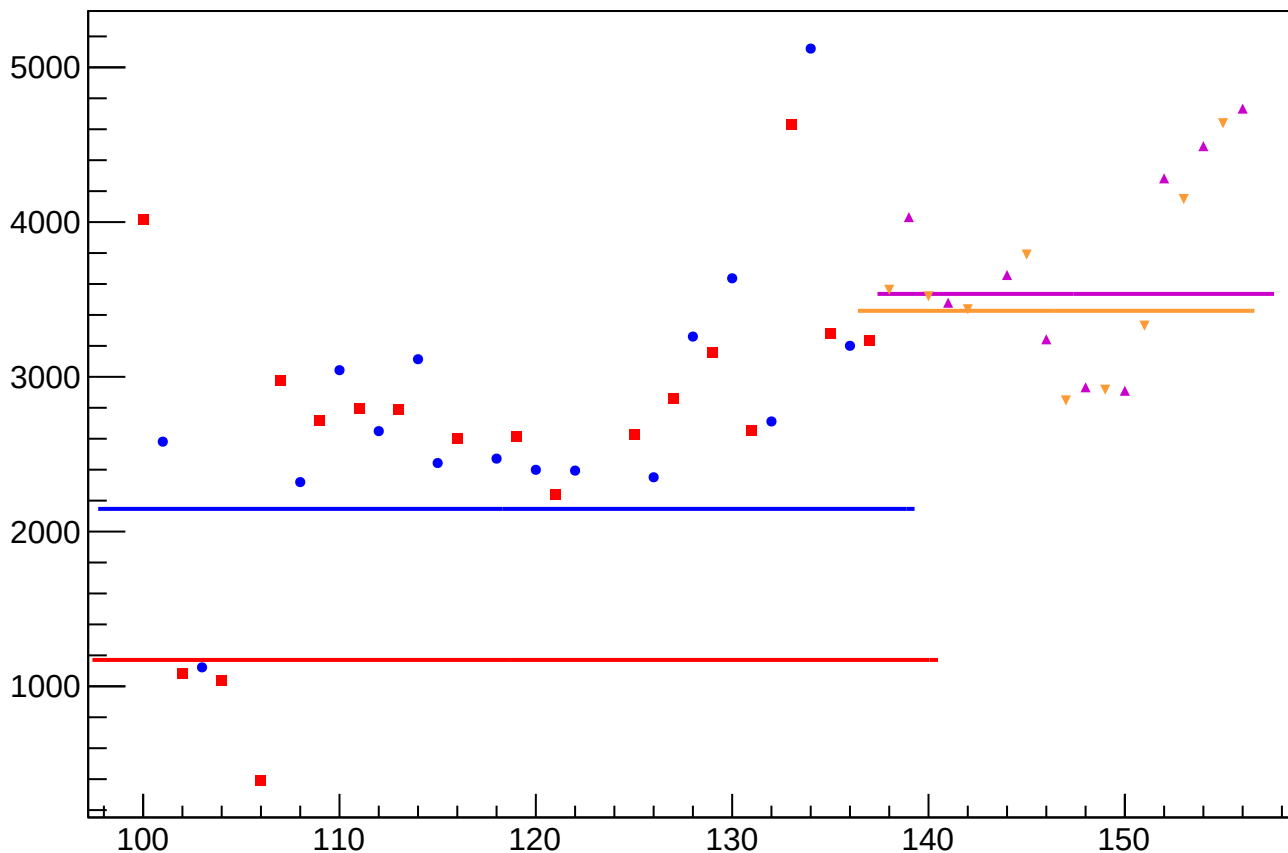
Right: -119.022 $\pm$ 475.020 χ^2 /NDF: 31.9/33

In: 236.420 $\pm$ 722.689 χ^2 /NDF:18.7/24

Out: -551.158 $\pm$ 519.632 χ^2 /NDF:26.7/26

All: -282.749 $\pm$ 421.894 χ^2 /NDF: 46.1/51

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2146.613+/-0.618 χ^2/NDF : 1974719.3/15

Left Out: 3426.702+/-0.928 χ^2/NDF : 301184.0/8

Right Out: 1170.550+/-0.400 χ^2/NDF : 5817605.6/17

Left In: 3535.948+/-0.908 χ^2/NDF : 432541.9/8

Left: 3482.499+/-0.649 χ^2/NDF : 740802.1/17

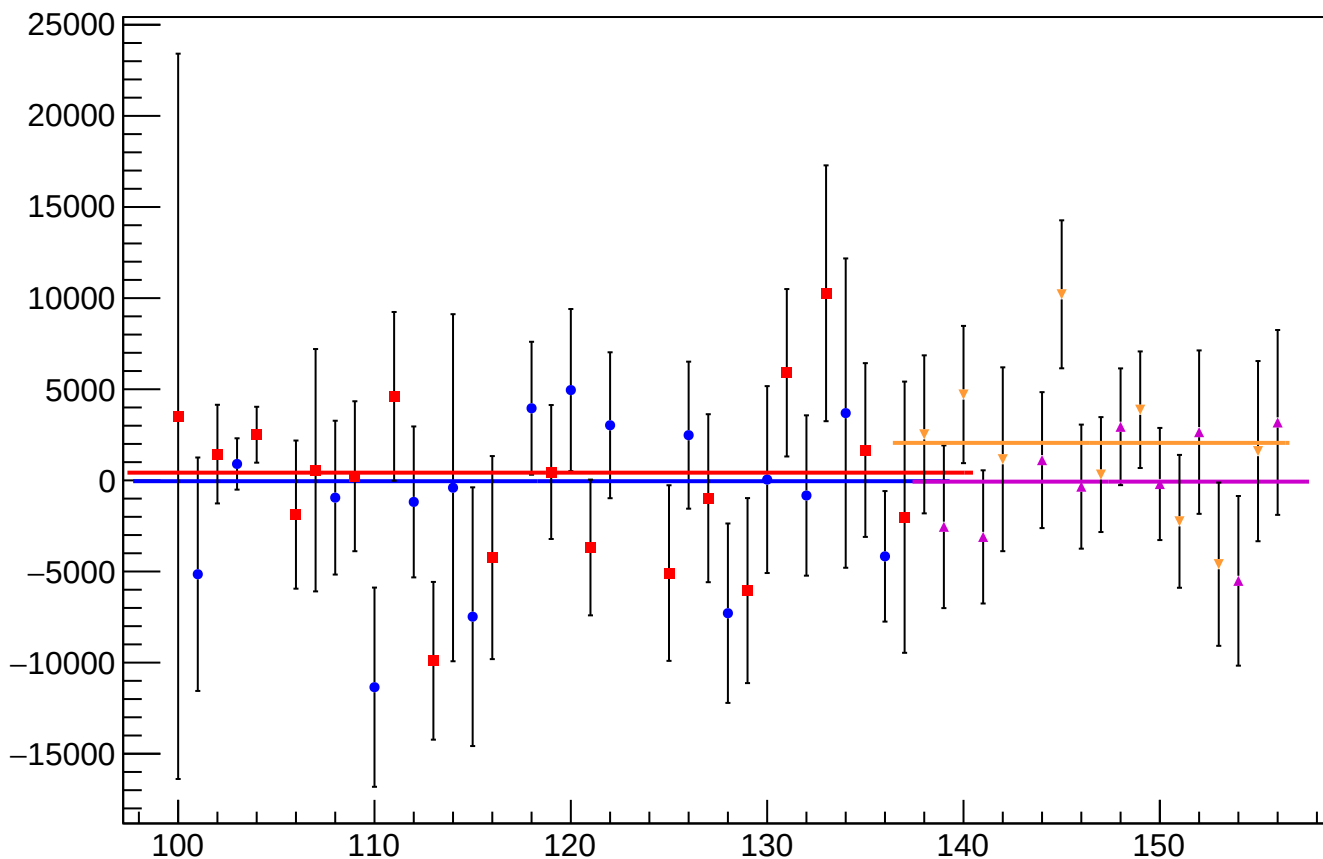
Right: 1458.789+/-0.336 χ^2/NDF : 9549586.1/33

In: 2586.302+/-0.511 χ^2/NDF : 4006207.6/24

Out: 1524.156+/-0.367 χ^2/NDF : 11101813.9/26

All: 1886.138+/-0.298 χ^2/NDF : 17955830.1/5

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: 2057.343 ± 1304.096 $\chi^2/\text{NDF}: 8.8/8$

Right Out: 423.476 ± 896.736 $\chi^2/\text{NDF}: 17.3/17$

Left In: -69.570 ± 1268.865 $\chi^2/\text{NDF}: 4.1/8$

Left: 964.769 ± 909.423 $\chi^2/\text{NDF}: 14.3/17$

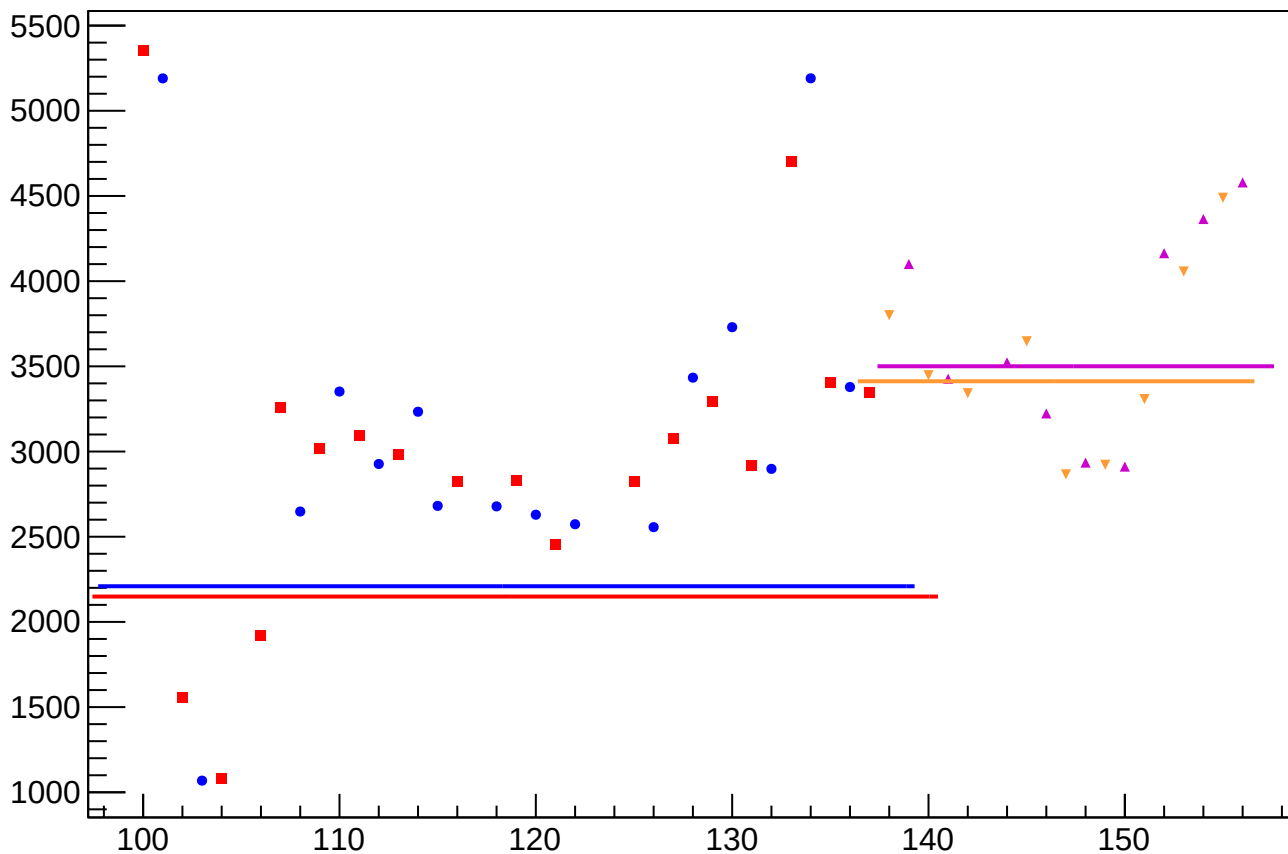
Right: 195.485 ± 642.405 $\chi^2/\text{NDF}: 31.2/33$

In: -53.393 ± 745.212 $\chi^2/\text{NDF}: 17.9/24$

Out: 948.008 ± 738.903 $\chi^2/\text{NDF}: 27.2/26$

All: 451.565 ± 524.700 $\chi^2/\text{NDF}: 46.0/51$

asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 2209.349 $\pm$ 0.651 χ^2 /NDF: 2836875.7/15

Left Out: 3412.494 $\pm$ 0.922 χ^2 /NDF: 268253.7/8

Right Out: 2148.948 $\pm$ 0.633 χ^2 /NDF: 2269660.8/17

Left In: 3500.384 $\pm$ 0.897 χ^2 /NDF: 389117.0/8

Left: 3457.642 $\pm$ 0.643 χ^2 /NDF: 662037.3/17

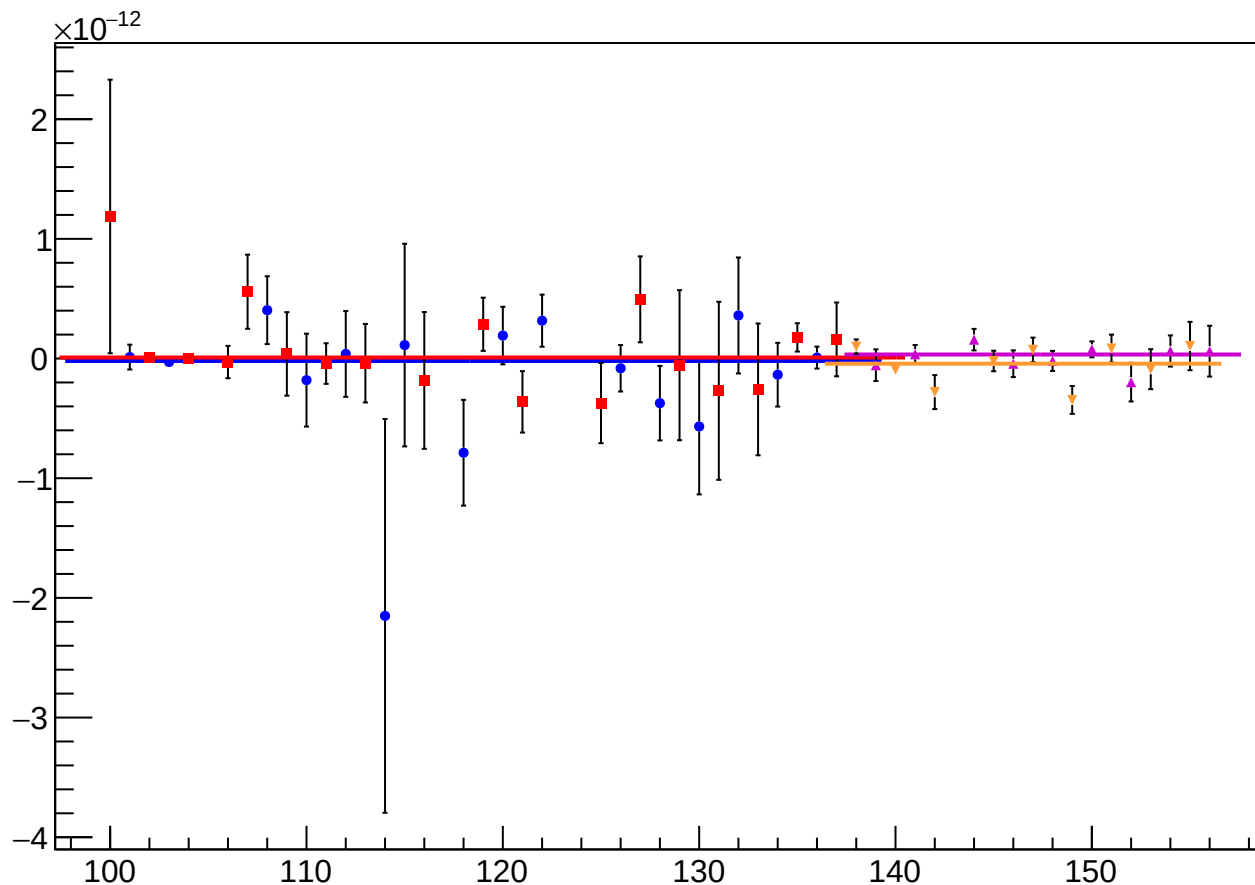
Right: 2178.279 $\pm$ 0.454 χ^2 /NDF: 5110964.0/33

In: 2654.661 $\pm$ 0.527 χ^2 /NDF: 4582321.3/24

Out: 2553.275 $\pm$ 0.522 χ^2 /NDF: 3814662.7/26

All: 2603.455 $\pm$ 0.371 χ^2 /NDF: 8415681.1/51

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 :19.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 14.0/17

Left In: 0.000+/-0.000 χ^2/NDF :5.8/8

Left: -0.000+/-0.000 χ^2/NDF : 28.8/17

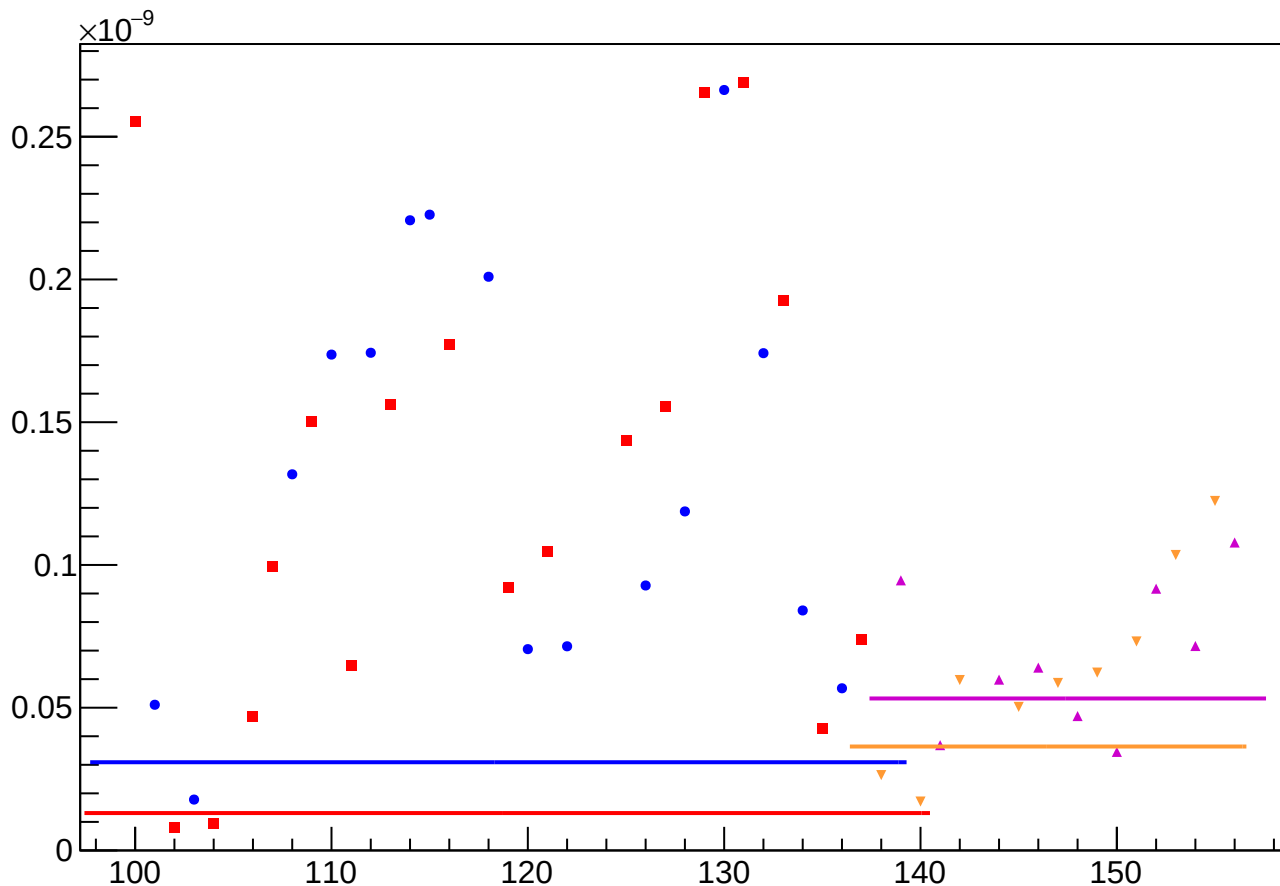
Right: 0.000+/-0.000 χ^2/NDF : 28.7/33

In: -0.000+/-0.000 χ^2/NDF :21.2/24

Out: -0.000+/-0.000 χ^2/NDF :36.6/26

All: -0.000+/-0.000 χ^2/NDF : 57.8/51

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 : 1685427.0/8

Right Out: 0.000+/-0.000 χ^2/NDF : 3659260.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 767782.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2763046.5/17

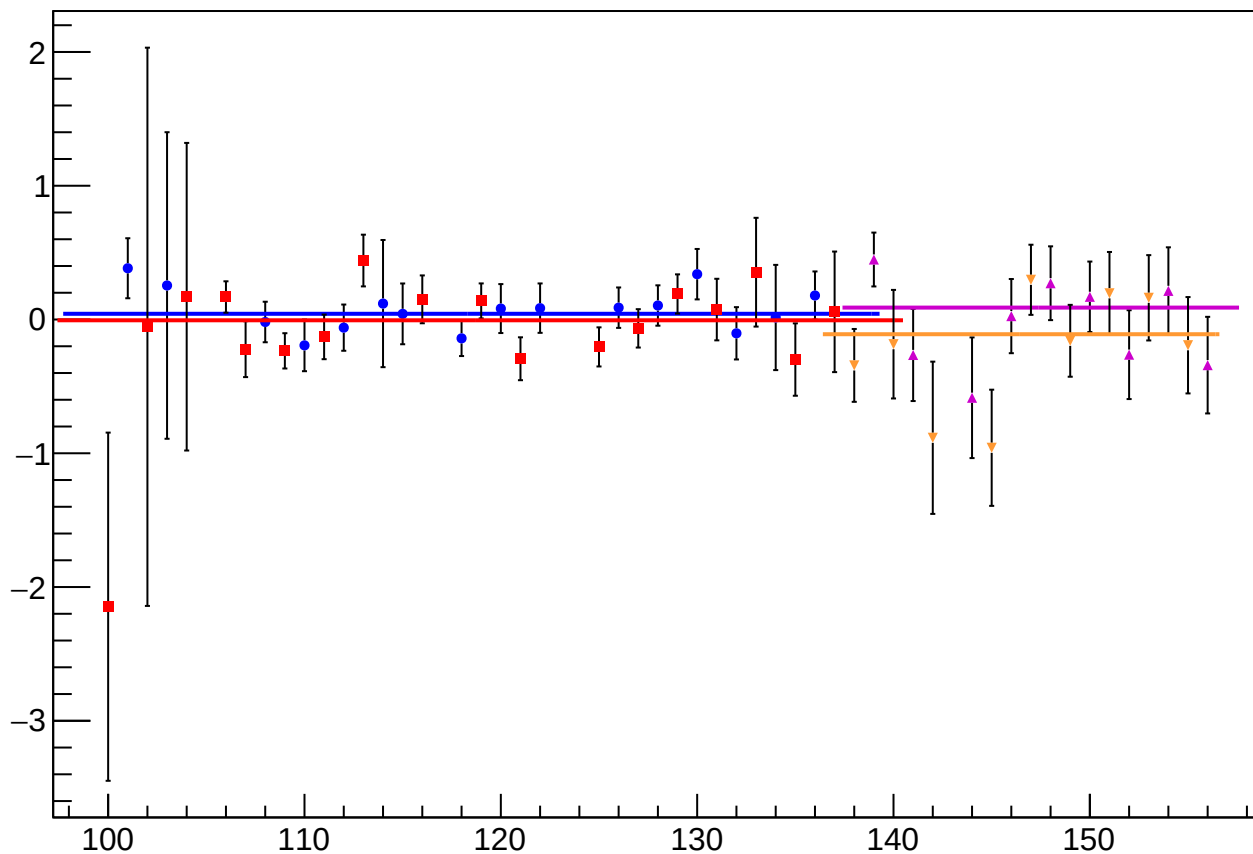
Right: 0.000+/-0.000 χ^2/NDF : 7385142.0/33

In: 0.000+/-0.000 χ^2/NDF : 4338610.4/24

Out: 0.000+/-0.000 χ^2/NDF : 6482062.5/26

All: 0.000+/-0.000 χ^2/NDF : 12306232.7/51

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: -0.110 ± 0.109 $\chi^2/\text{NDF}: 10.6/8$

Right Out: -0.006 ± 0.043 $\chi^2/\text{NDF}: 26.0/17$

Left In: 0.089 ± 0.098 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.000 ± 0.073 $\chi^2/\text{NDF}: 22.2/17$

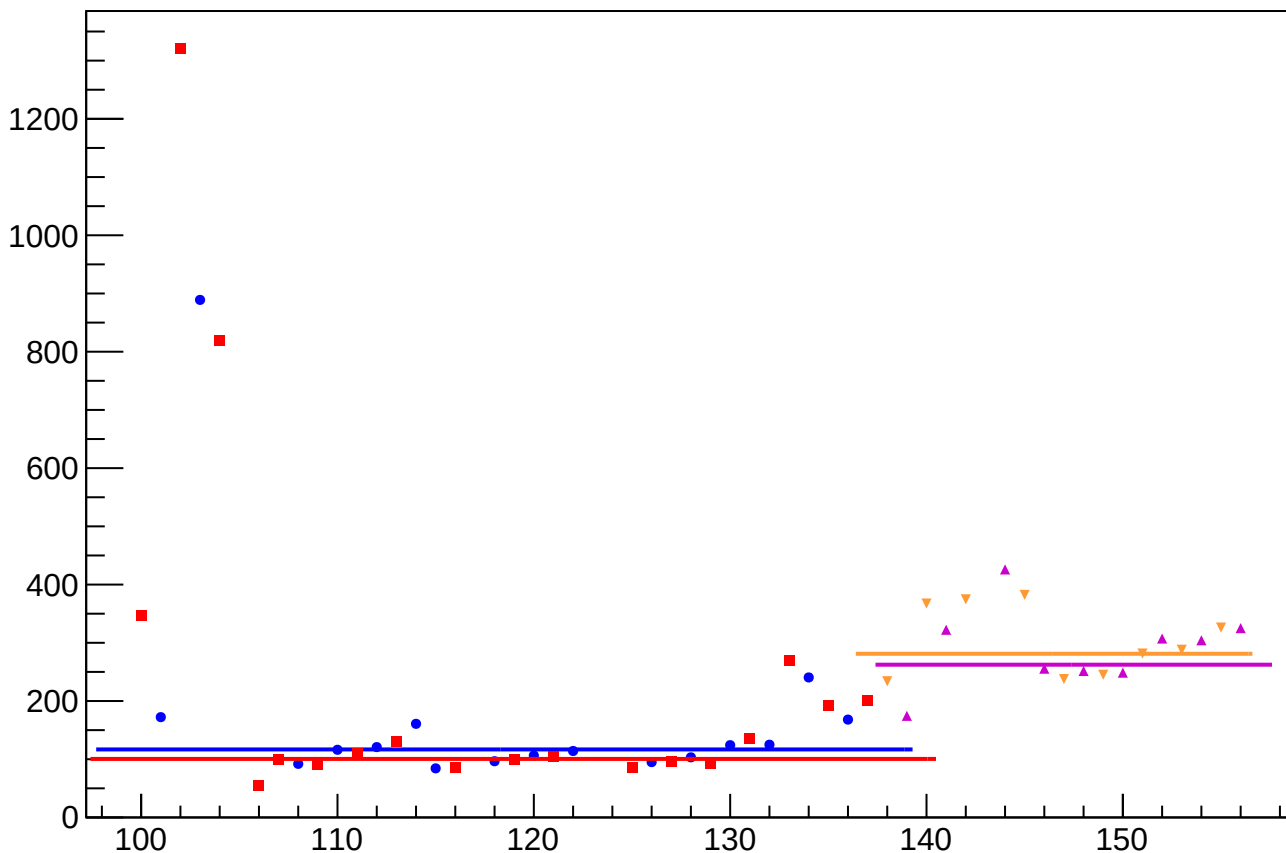
Right: 0.016 ± 0.032 $\chi^2/\text{NDF}: 36.9/33$

In: 0.052 ± 0.043 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.020 ± 0.040 $\chi^2/\text{NDF}: 37.5/26$

All: 0.014 ± 0.029 $\chi^2/\text{NDF}: 59.2/51$

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: 281.165 $\pm$ 0.077 χ^2 /NDF:435814.4/8

Right Out: 100.544 $\pm$ 0.031 χ^2 /NDF: 2664151.6/17

Left In: 262.385 $\pm$ 0.069 χ^2 /NDF:844586.5/8

Left: 270.762 $\pm$ 0.051 χ^2 /NDF: 1313363.5/17

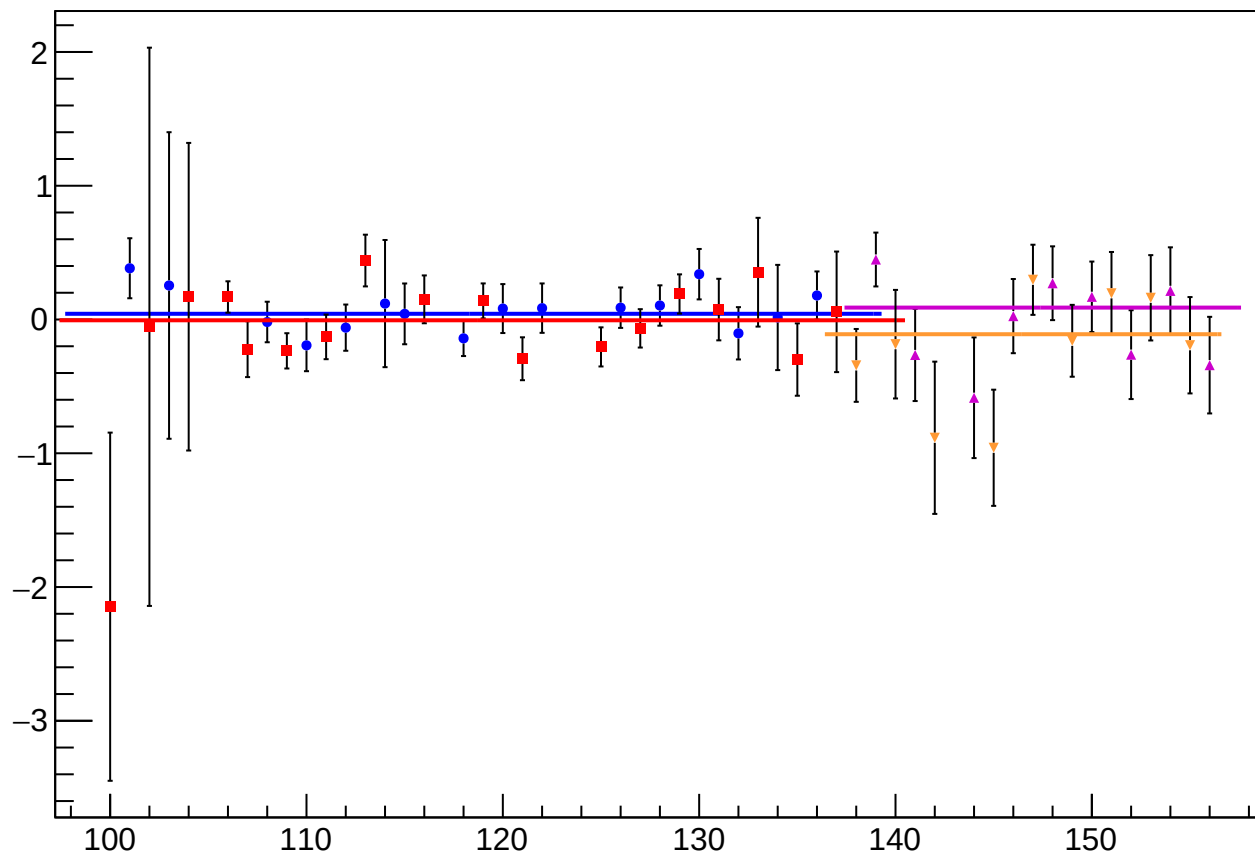
Right: 107.961 $\pm$ 0.023 χ^2 /NDF: 4413433.8/33

In: 144.632 $\pm$ 0.030 χ^2 /NDF:6055985.1/24

Out: 125.292 $\pm$ 0.028 χ^2 /NDF:7850431.4/26

All: 134.404 $\pm$ 0.021 χ^2 /NDF: 14123455.8/51

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 ± 0.047 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.110 ± 0.109 $\chi^2/\text{NDF}: 10.6/8$

Right Out: -0.006 ± 0.043 $\chi^2/\text{NDF}: 26.0/17$

Left In: 0.089 ± 0.098 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.000 ± 0.073 $\chi^2/\text{NDF}: 22.2/17$

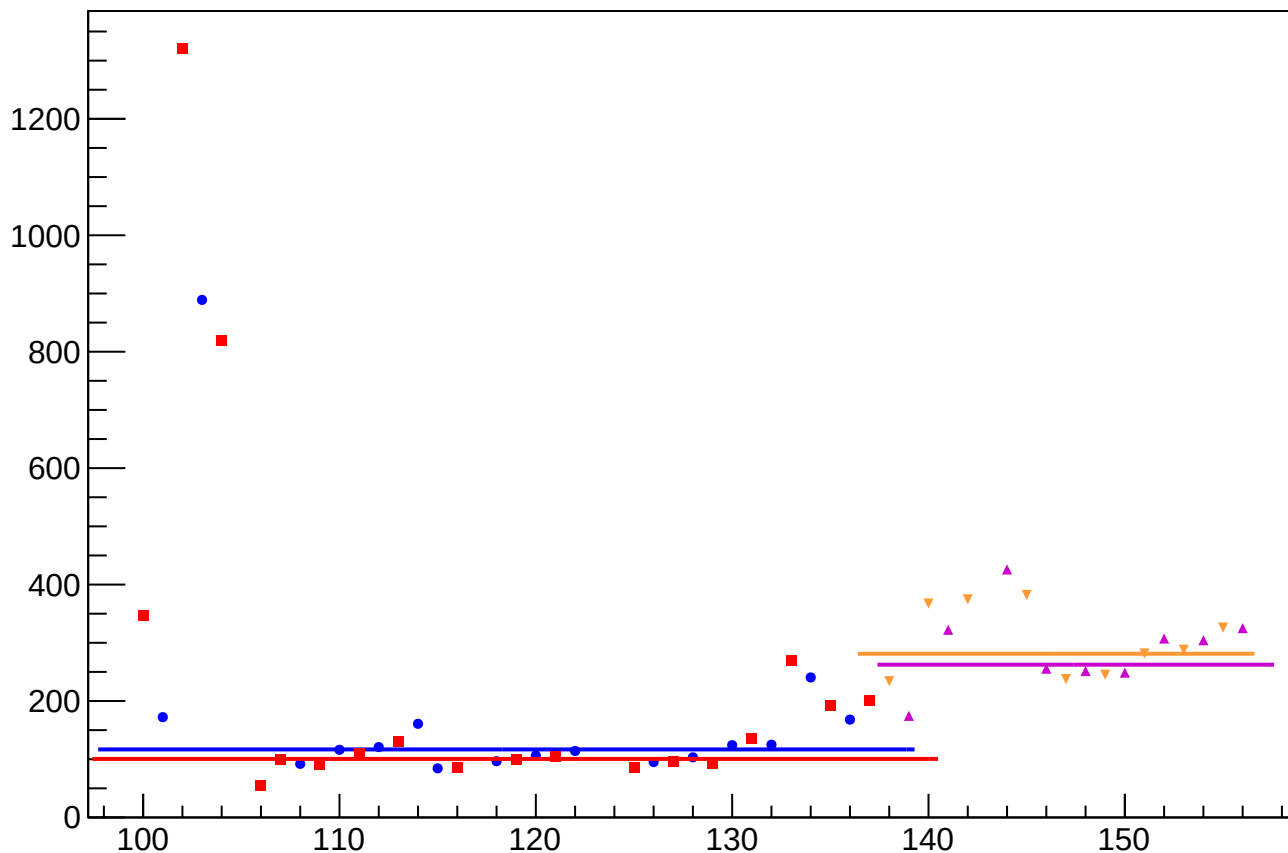
Right: 0.016 ± 0.032 $\chi^2/\text{NDF}: 36.9/33$

In: 0.052 ± 0.043 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.020 ± 0.040 $\chi^2/\text{NDF}: 37.5/26$

All: 0.014 ± 0.029 $\chi^2/\text{NDF}: 59.2/51$

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: 281.165+/-0.077 χ^2/NDF : 435814.4/8

Right Out: 100.544+/-0.031 χ^2/NDF : 2664151.6/17

Left In: 262.385+/-0.069 χ^2/NDF : 844586.5/8

Left: 270.762+/-0.051 χ^2/NDF : 1313363.5/17

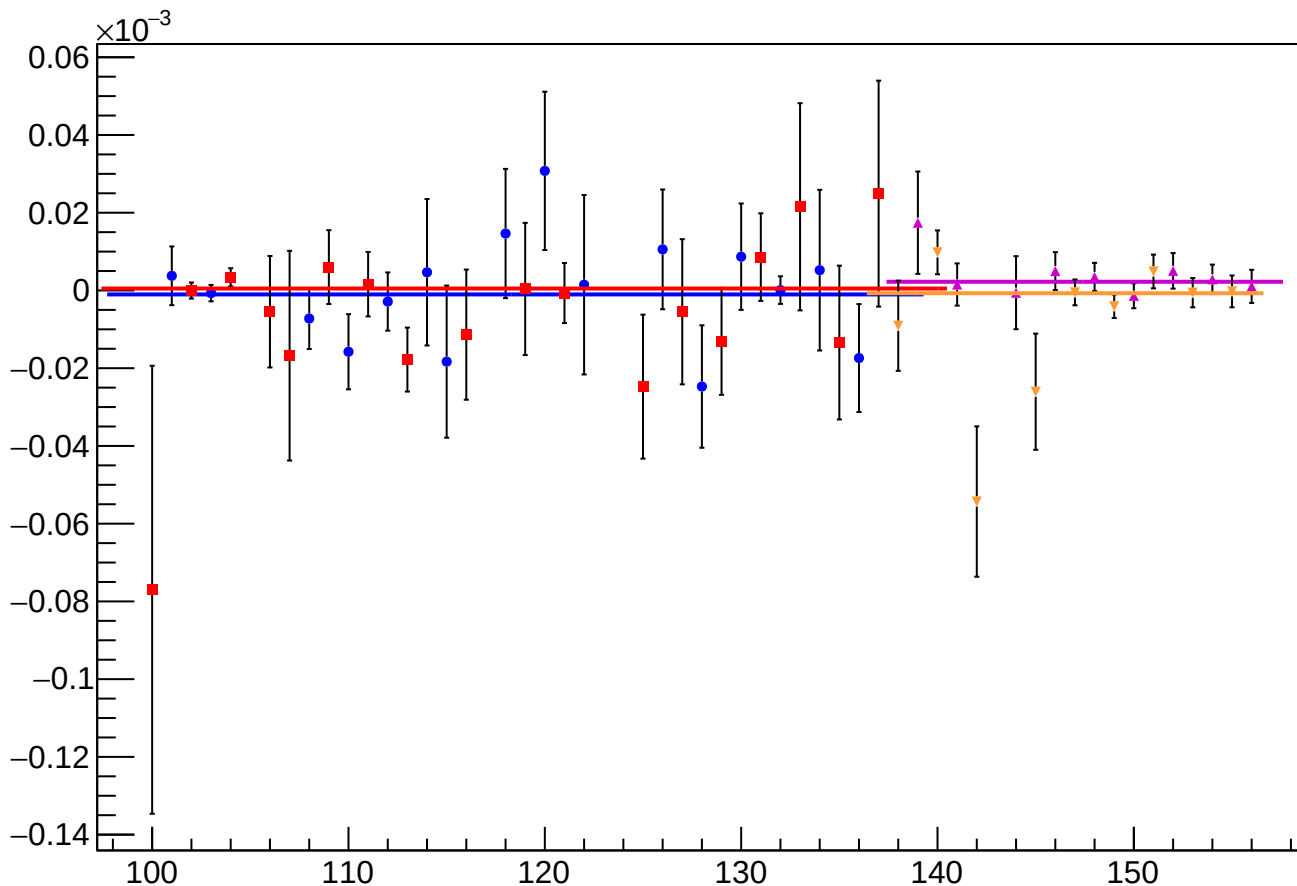
Right: 107.961+/-0.023 χ^2/NDF : 4413433.8/33

In: 144.632+/-0.030 χ^2/NDF : 6055985.1/24

Out: 125.292+/-0.028 χ^2/NDF : 7850431.4/26

All: 134.404+/-0.021 χ^2/NDF : 14123455.8/51

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 : 17.5/8

Right Out: 0.000+/-0.000 χ^2/NDF : 15.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 3.6/8

Left: 0.000+/-0.000 χ^2/NDF : 23.0/17

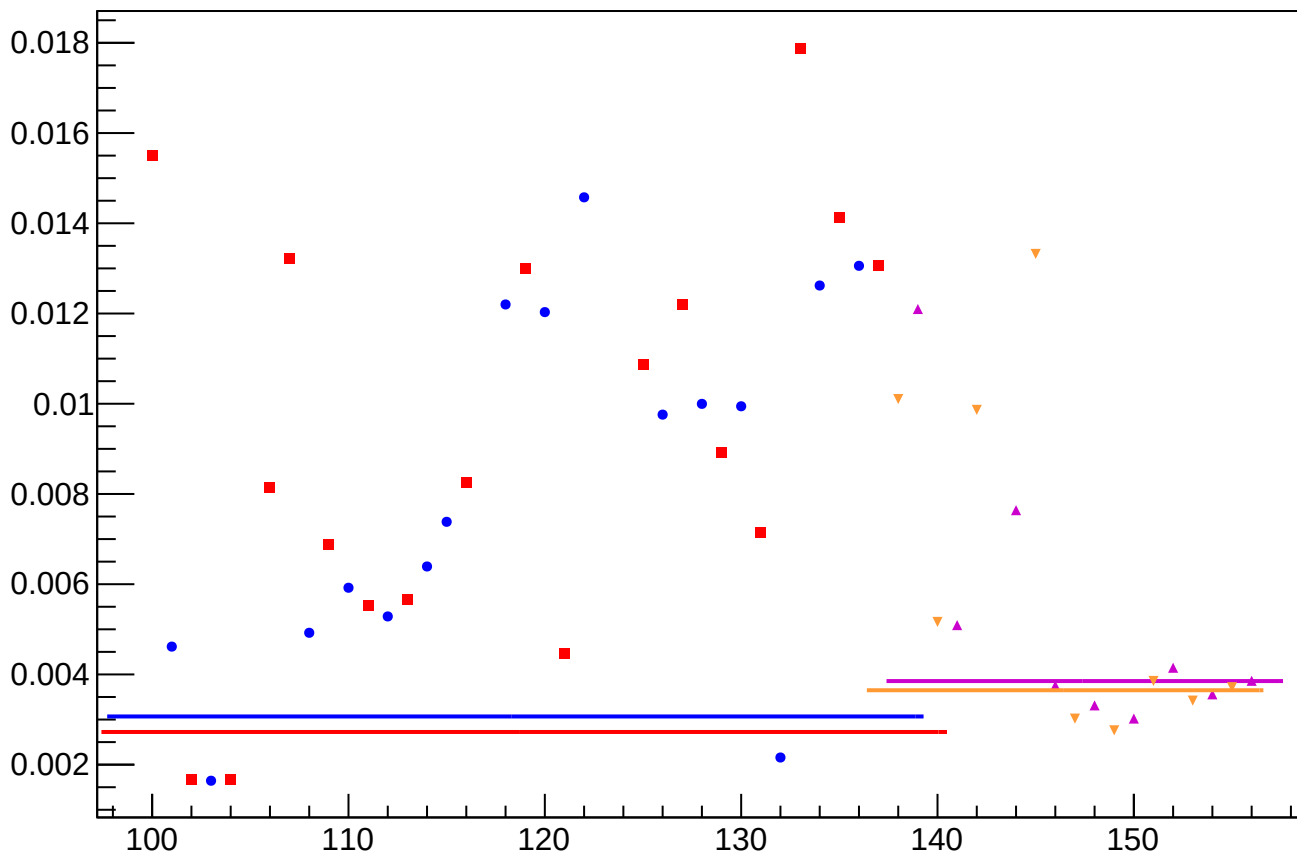
Right: -0.000+/-0.000 χ^2/NDF : 28.1/33

In: 0.000+/-0.000 χ^2/NDF : 18.4/24

Out: -0.000+/-0.000 χ^2/NDF : 32.9/26

All: 0.000+/-0.000 χ^2/NDF : 51.5/51

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 5964299.9/15

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2063817.7/8

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 6713699.1/17

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1414672.2/8

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 3496484.0/17

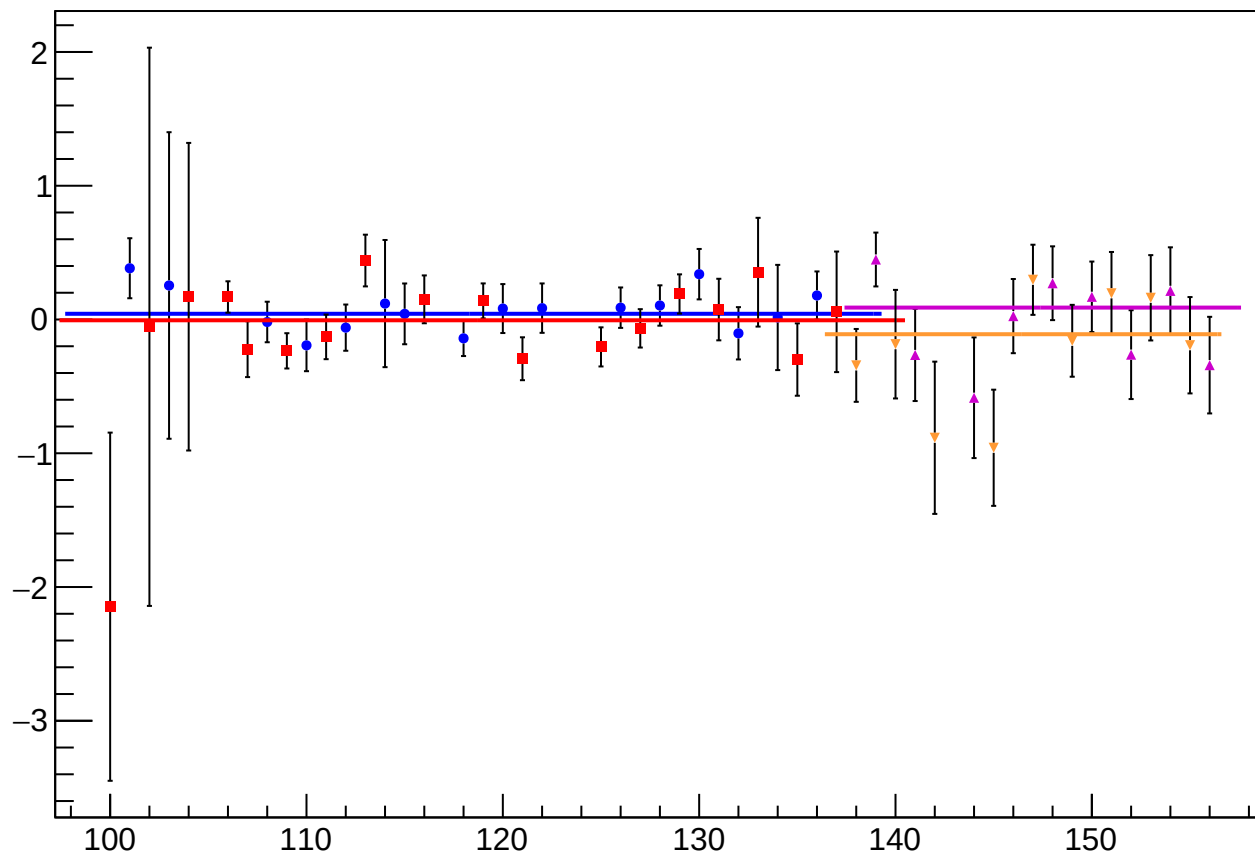
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 12731216.4/33

In: 0.003 $\pm$ 0.000 χ^2 /NDF:7636671.1/24

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:9177467.9/26

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 16912725.1/51

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 ± 0.047 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.110 ± 0.109 $\chi^2/\text{NDF}: 10.6/8$

Right Out: -0.006 ± 0.043 $\chi^2/\text{NDF}: 26.0/17$

Left In: 0.089 ± 0.098 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.000 ± 0.073 $\chi^2/\text{NDF}: 22.2/17$

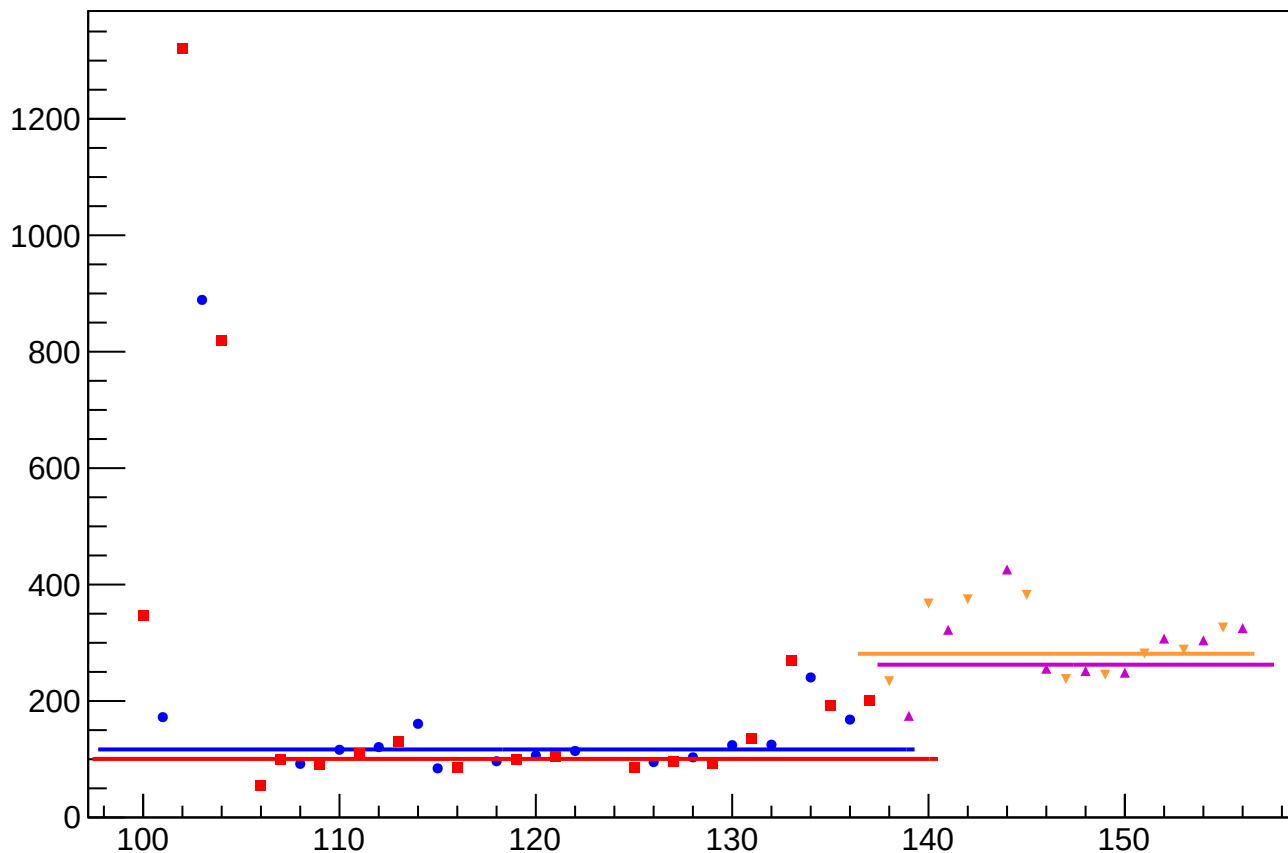
Right: 0.016 ± 0.032 $\chi^2/\text{NDF}: 36.9/33$

In: 0.052 ± 0.043 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.020 ± 0.040 $\chi^2/\text{NDF}: 37.5/26$

All: 0.014 ± 0.029 $\chi^2/\text{NDF}: 59.2/51$

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: 281.167 $\pm$ 0.077 χ^2 /NDF:435815.7/8

Right Out: 100.543 $\pm$ 0.031 χ^2 /NDF: 2664231.9/17

Left In: 262.388 $\pm$ 0.069 χ^2 /NDF:844546.0/8

Left: 270.765 $\pm$ 0.051 χ^2 /NDF: 1313319.8/17

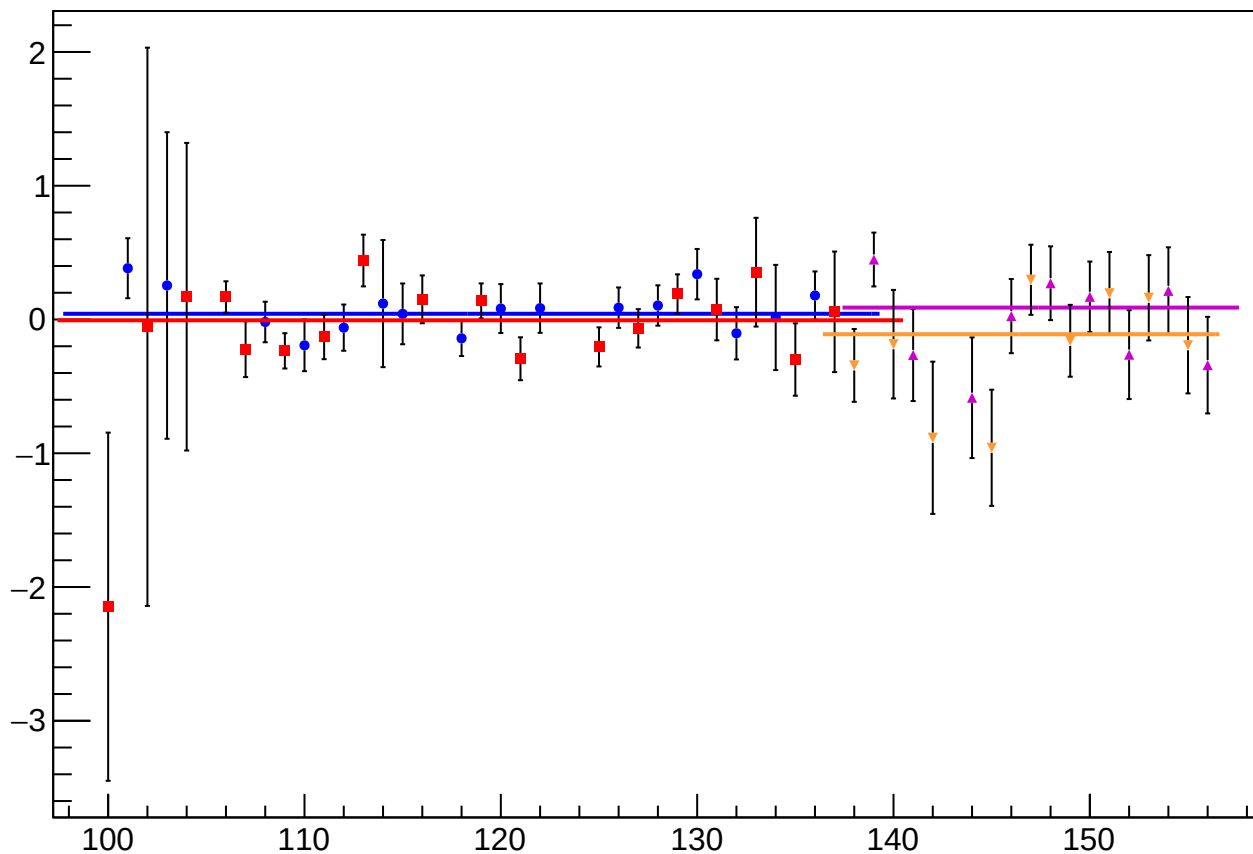
Right: 107.960 $\pm$ 0.023 χ^2 /NDF: 4413531.7/33

In: 144.632 $\pm$ 0.030 χ^2 /NDF:6056055.1/24

Out: 125.290 $\pm$ 0.028 χ^2 /NDF:7850629.1/26

All: 134.404 $\pm$ 0.021 χ^2 /NDF: 14123749.3/51

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 ± 0.047 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.110 ± 0.109 $\chi^2/\text{NDF}: 10.6/8$

Right Out: -0.006 ± 0.043 $\chi^2/\text{NDF}: 26.0/17$

Left In: 0.089 ± 0.098 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.000 ± 0.073 $\chi^2/\text{NDF}: 22.2/17$

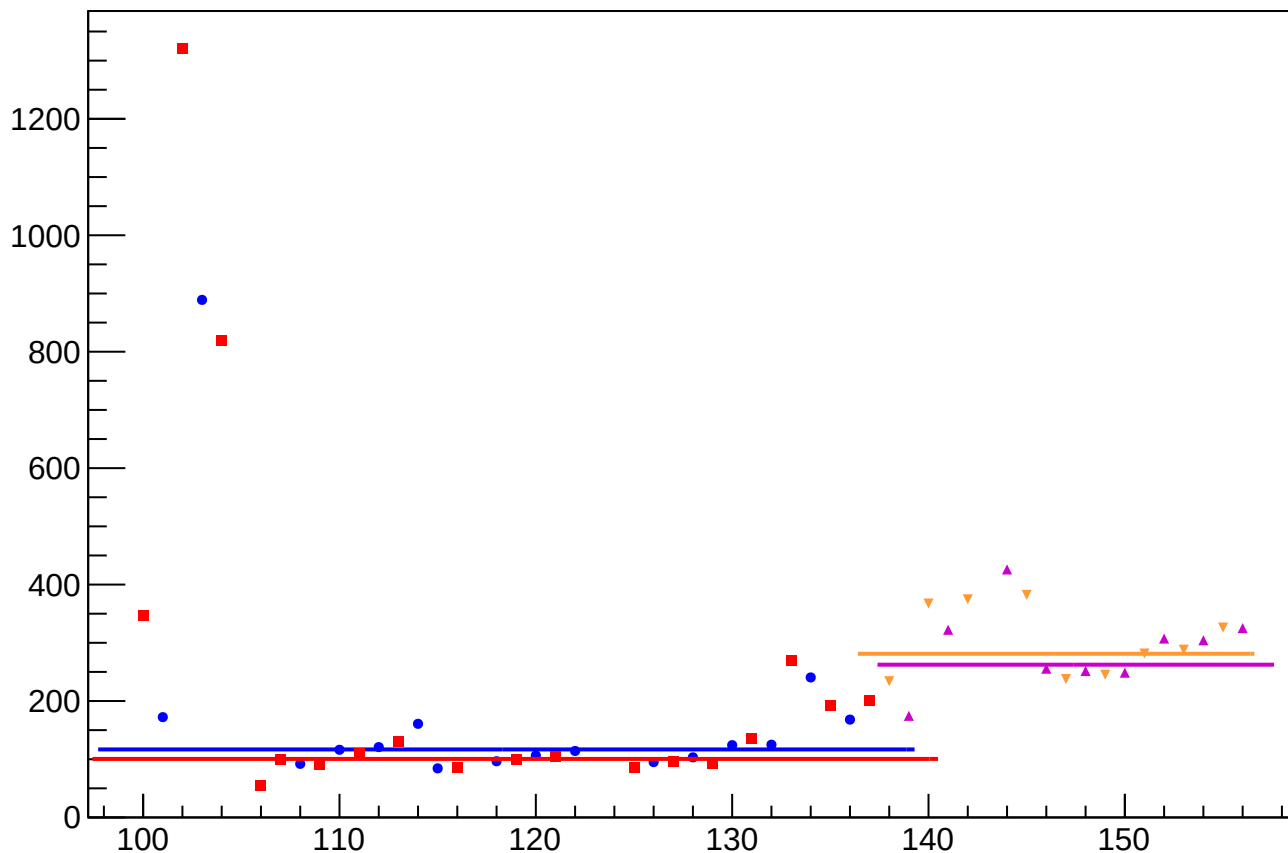
Right: 0.016 ± 0.032 $\chi^2/\text{NDF}: 36.9/33$

In: 0.052 ± 0.043 $\chi^2/\text{NDF}: 20.2/24$

Out: -0.020 ± 0.040 $\chi^2/\text{NDF}: 37.5/26$

All: 0.014 ± 0.029 $\chi^2/\text{NDF}: 59.2/51$

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: 281.167 $\pm$ 0.077 χ^2 /NDF:435815.7/8

Right Out: 100.543 $\pm$ 0.031 χ^2 /NDF: 2664231.9/17

Left In: 262.388 $\pm$ 0.069 χ^2 /NDF:844546.0/8

Left: 270.765 $\pm$ 0.051 χ^2 /NDF: 1313319.8/17

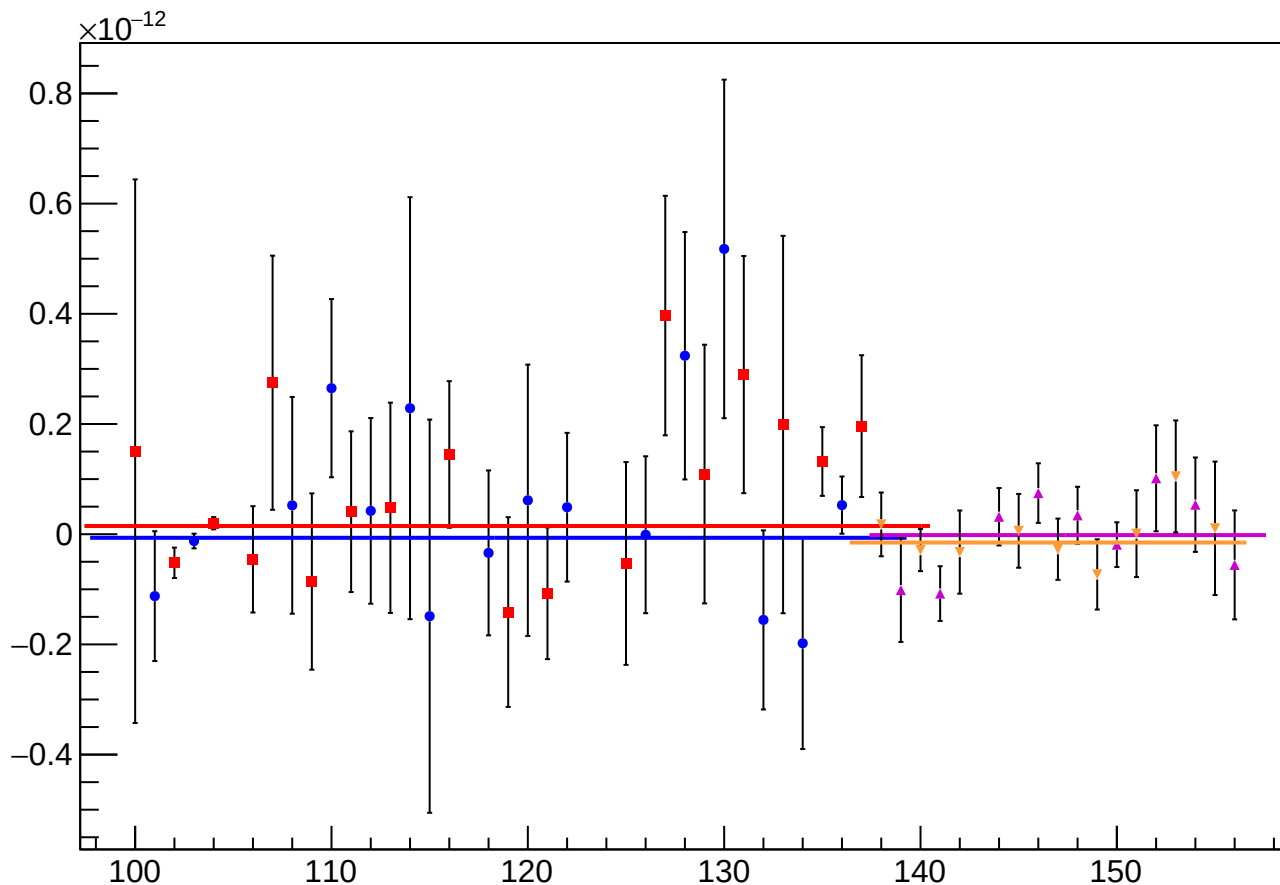
Right: 107.960 $\pm$ 0.023 χ^2 /NDF: 4413531.7/33

In: 144.632 $\pm$ 0.030 χ^2 /NDF:6056055.1/24

Out: 125.290 $\pm$ 0.028 χ^2 /NDF:7850629.1/26

All: 134.404 $\pm$ 0.021 χ^2 /NDF: 14123749.3/51

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 : 3.0/8

Right Out: 0.000 ± 0.000 χ^2/NDF : 21.9/17

Left In: -0.000 ± 0.000 χ^2/NDF : 10.6/8

Left: -0.000 ± 0.000 χ^2/NDF : 13.8/17

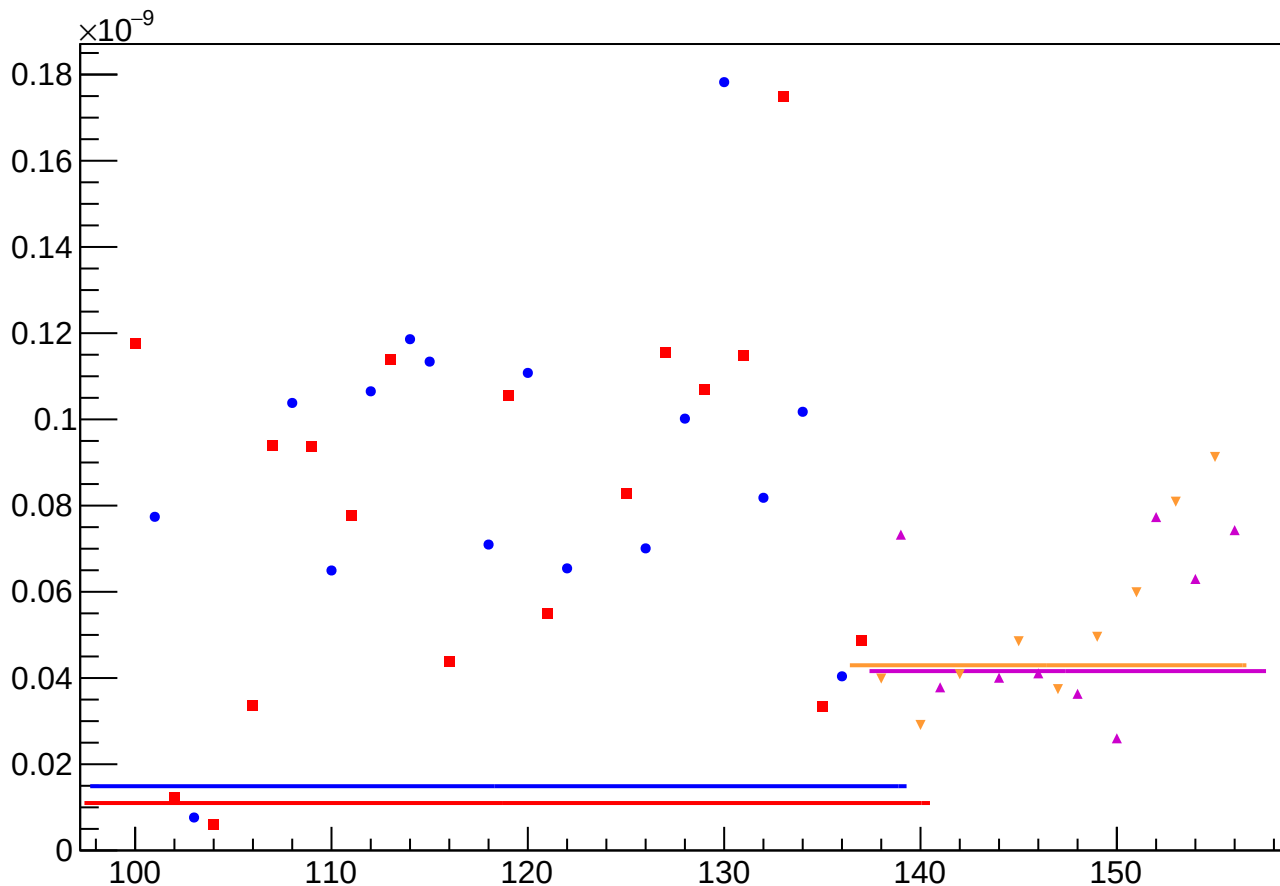
Right: 0.000 ± 0.000 χ^2/NDF : 36.7/33

In: -0.000 ± 0.000 χ^2/NDF : 23.7/24

Out: 0.000 ± 0.000 χ^2/NDF : 26.5/26

All: 0.000 ± 0.000 χ^2/NDF : 51.3/51

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 :1015151.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 5866969.2/17

Left In: 0.000+/-0.000 χ^2/NDF :1174270.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2193832.8/17

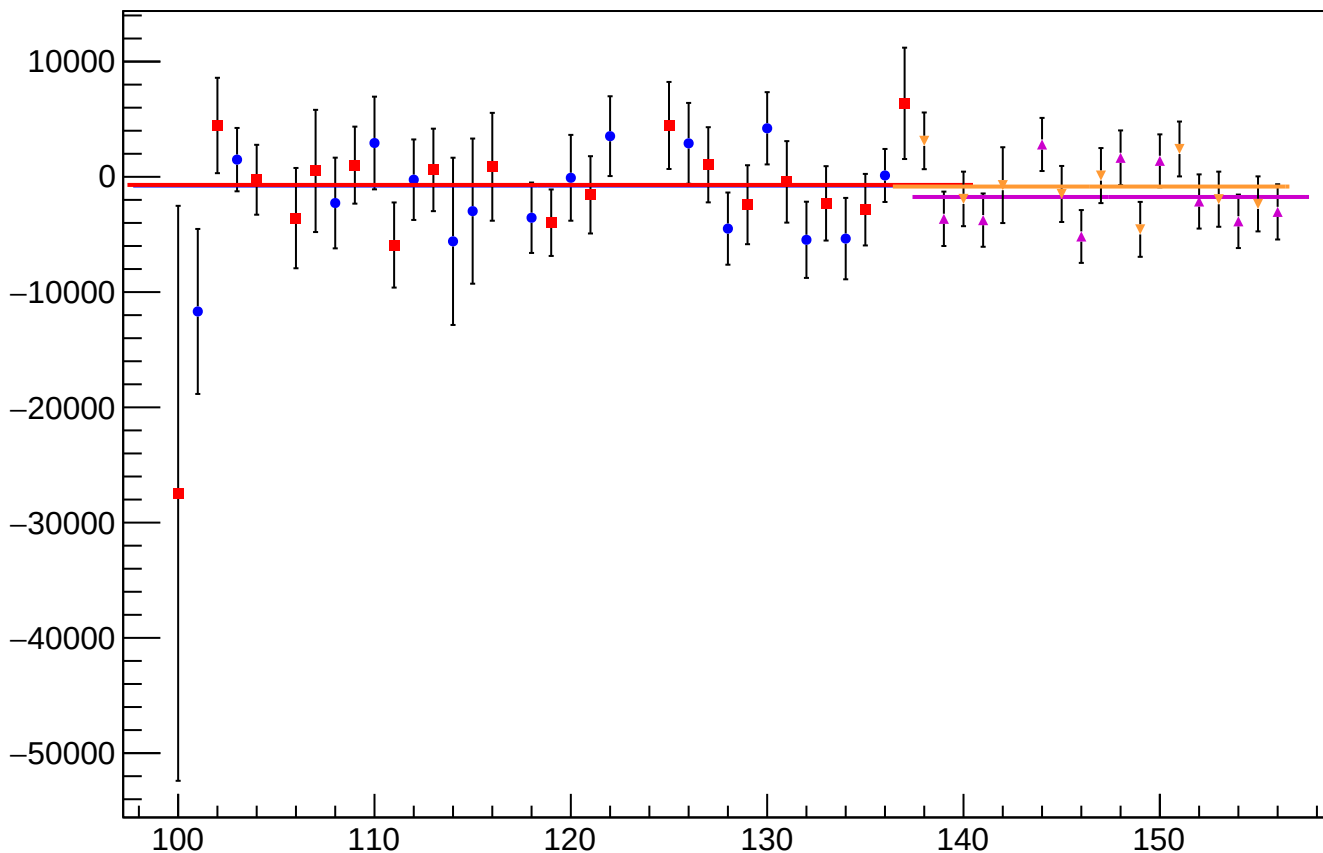
Right: 0.000+/-0.000 χ^2/NDF : 11880361.2/33

In: 0.000+/-0.000 χ^2/NDF :9675152.7/24

Out: 0.000+/-0.000 χ^2/NDF :10688447.2/26

All: 0.000+/-0.000 χ^2/NDF : 20701505.1/51

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: -844.393+/-820.903 χ^2 /NDF:8.0/8

Right Out: -702.198+/-868.647 χ^2 /NDF: 12.4/17

Left In: -1747.816+/-777.702 χ^2 /NDF:12.6/8

Left: -1320.501+/-564.573 χ^2 /NDF: 21.2/17

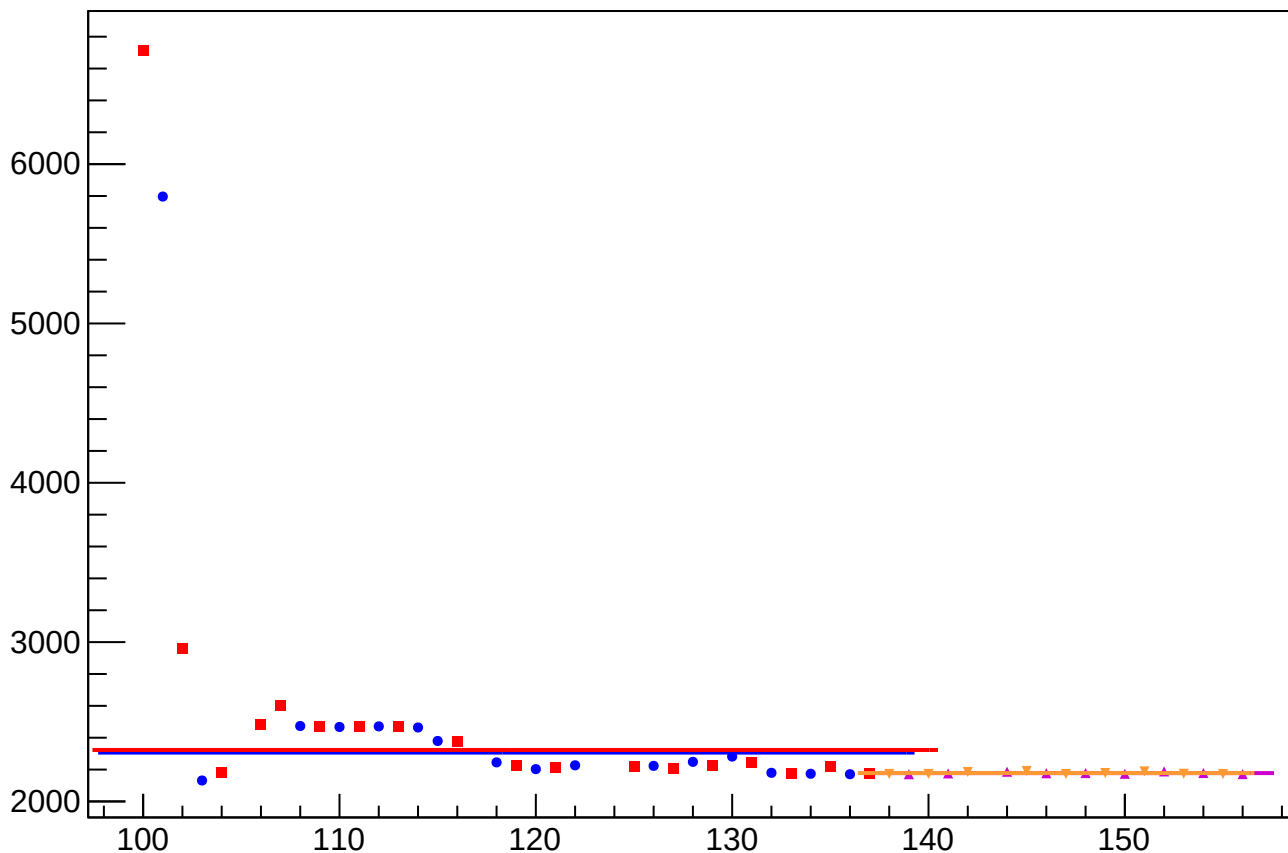
Right: -728.125+/-615.637 χ^2 /NDF: 28.2/33

In: -1308.026+/-580.597 χ^2 /NDF:29.2/24

Out: -777.310+/-596.631 χ^2 /NDF:20.3/26

All: -1049.895+/-416.097 χ^2 /NDF: 49.9/51

reg_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643 $\pm$ 0.617 χ^2 /NDF: 514150.3/15

Left Out: 2178.077 $\pm$ 0.580 χ^2 /NDF:154.7/8

Right Out: 2323.010 $\pm$ 0.614 χ^2 /NDF: 151787.1/17

Left In: 2177.948 $\pm$ 0.550 χ^2 /NDF:108.7/8

Left: 2178.009 $\pm$ 0.399 χ^2 /NDF: 263.4/17

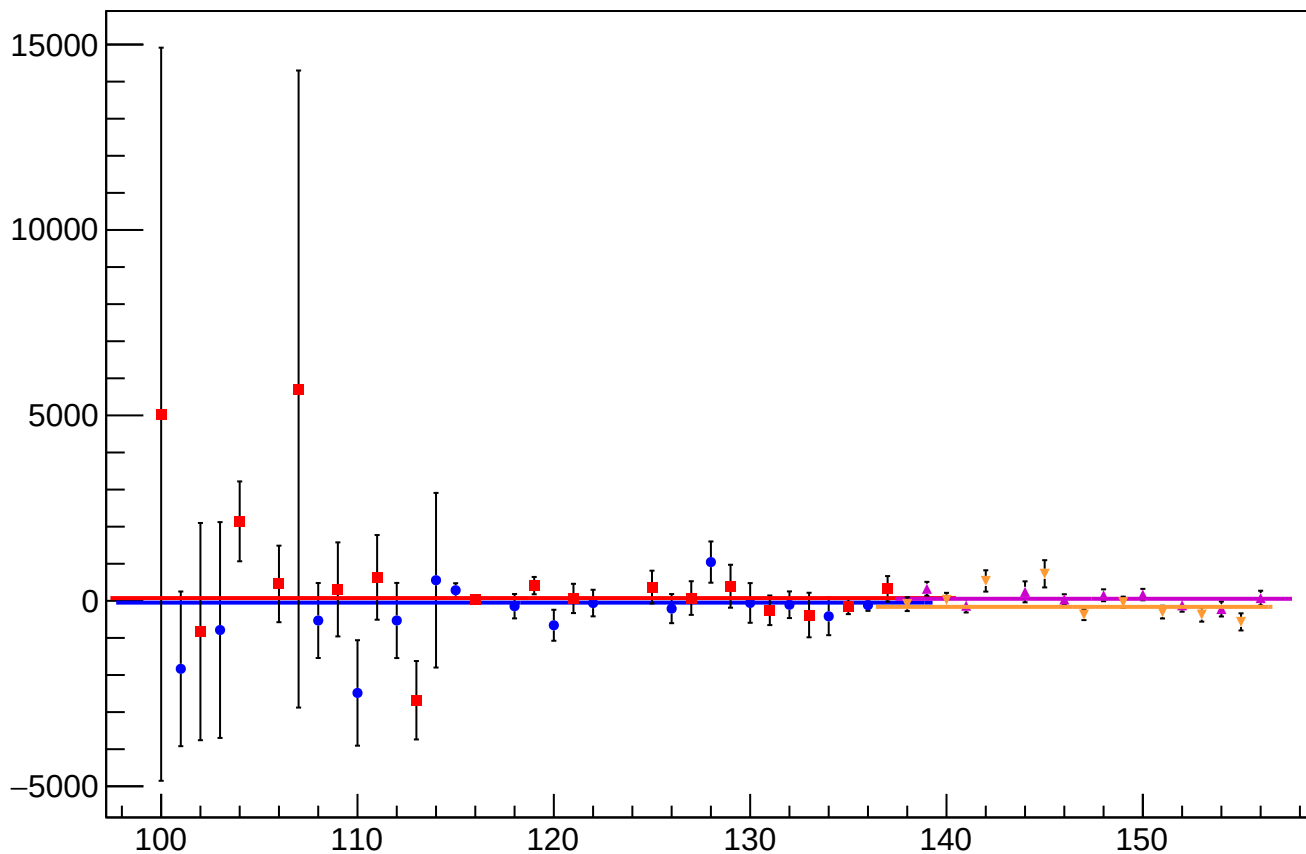
Right: 2314.864 $\pm$ 0.435 χ^2 /NDF: 666290.7/33

In: 2234.916 $\pm$ 0.411 χ^2 /NDF:538502.3/24

Out: 2246.451 $\pm$ 0.422 χ^2 /NDF:181353.0/26

All: 2240.527 $\pm$ 0.294 χ^2 /NDF: 720239.3/51

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: -162.880 ± 63.639 χ^2/NDF : 20.7/8

Right Out: 74.200 ± 82.384 χ^2/NDF : 17.6/17

Left In: 55.166 ± 58.997 χ^2/NDF : 7.4/8

Left: -45.617 ± 43.265 χ^2/NDF : 34.4/17

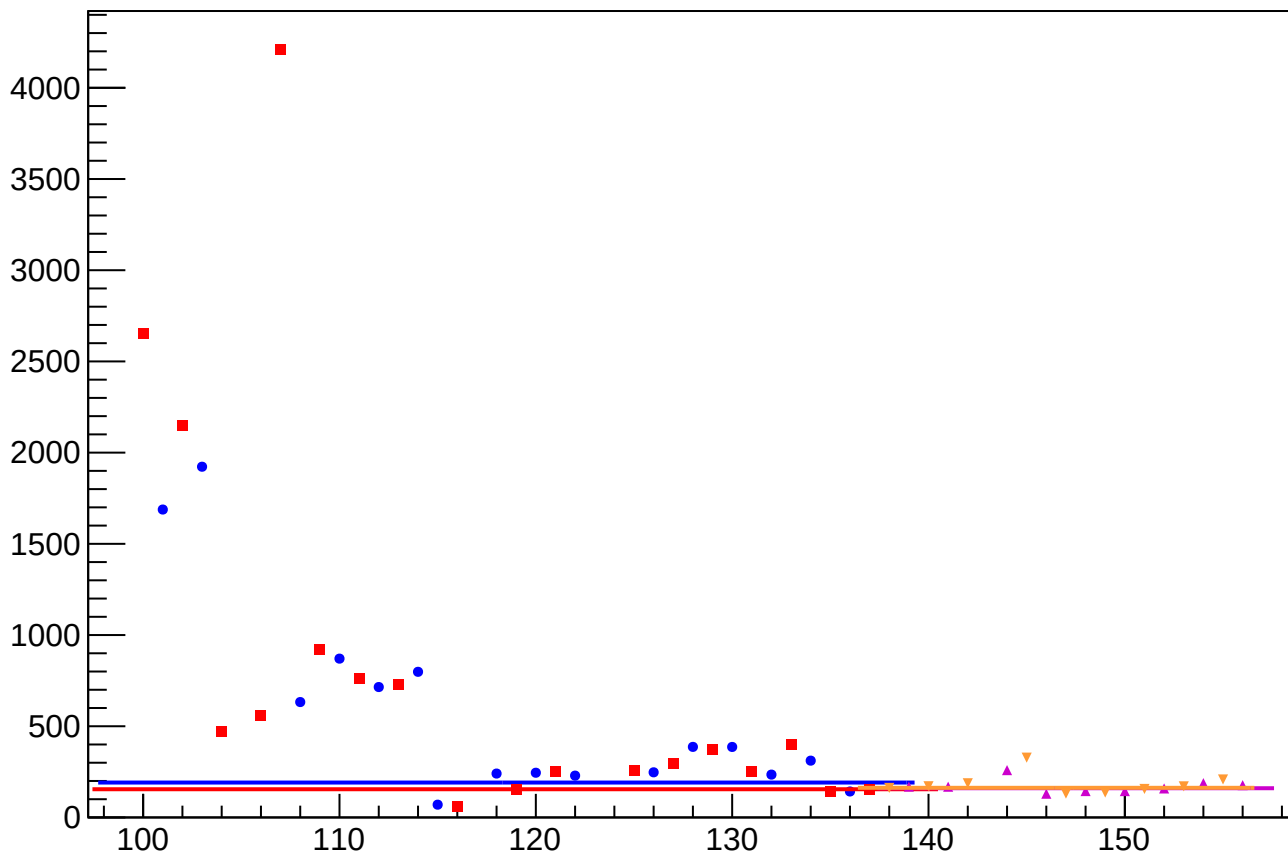
Right: 19.134 ± 61.048 χ^2/NDF : 33.0/33

In: 24.617 ± 49.490 χ^2/NDF : 22.7/24

Out: -74.281 ± 50.363 χ^2/NDF : 43.5/26

All: -23.968 ± 35.299 χ^2/NDF : 68.1/51

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 191.381 $\pm$ 0.064 χ^2 /NDF: 5064747.7/15

Left Out: 162.486 $\pm$ 0.045 χ^2 /NDF: 662644.2/8

Right Out: 154.677 $\pm$ 0.058 χ^2 /NDF: 6154285.9/17

Left In: 160.215 $\pm$ 0.042 χ^2 /NDF: 440202.5/8

Left: 161.265 $\pm$ 0.031 χ^2 /NDF: 1104216.0/17

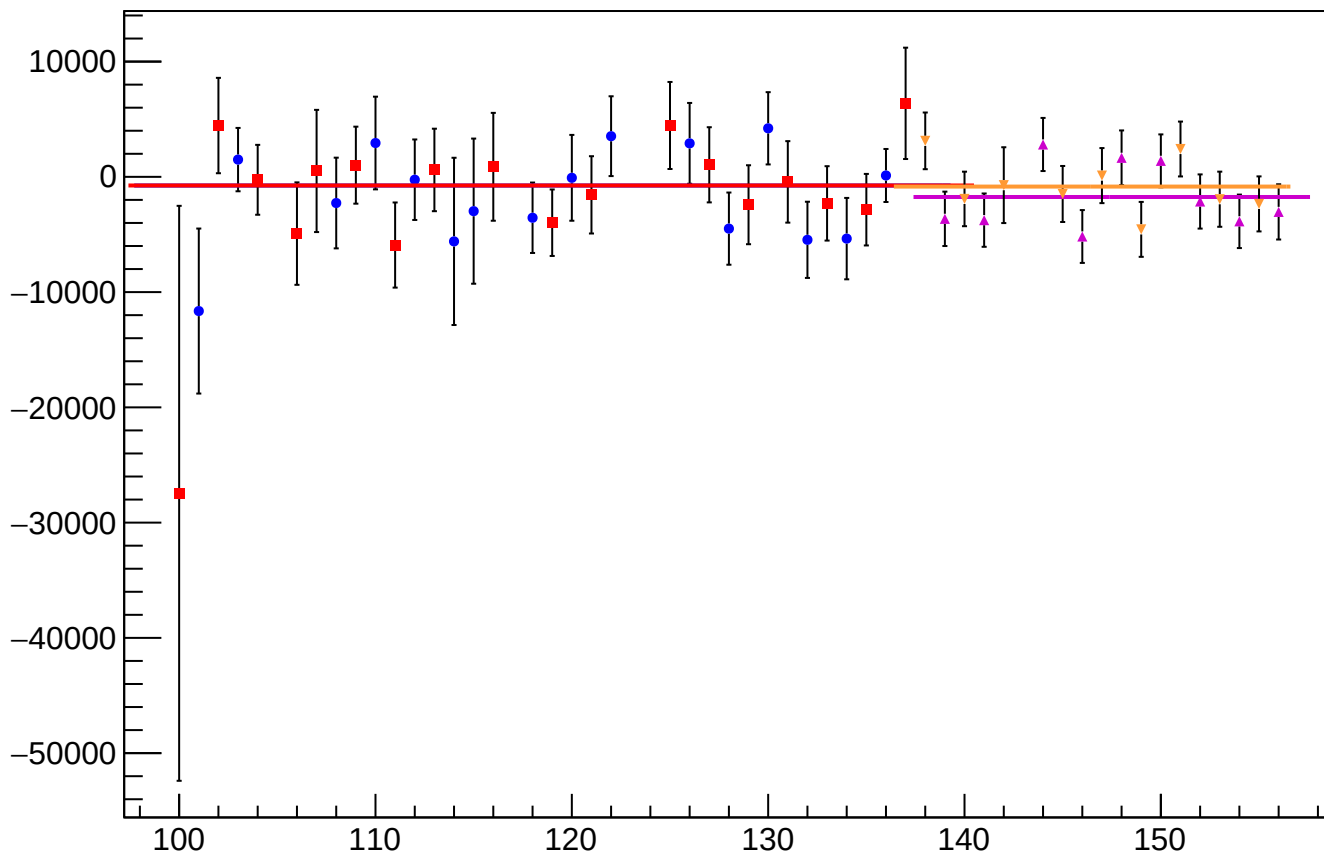
Right: 171.226 $\pm$ 0.043 χ^2 /NDF: 11398031.5/33

In: 169.450 $\pm$ 0.035 χ^2 /NDF: 5670328.1/24

Out: 159.568 $\pm$ 0.036 χ^2 /NDF: 6828185.3/26

All: 164.595 $\pm$ 0.025 χ^2 /NDF: 12537694.5/53

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: -844.411+/-820.903 χ^2/NDF : 7.9/8

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -1747.785+/-777.702 χ^2/NDF : 12.6/8

Left: -1320.493+/-564.573 χ^2/NDF : 21.2/17

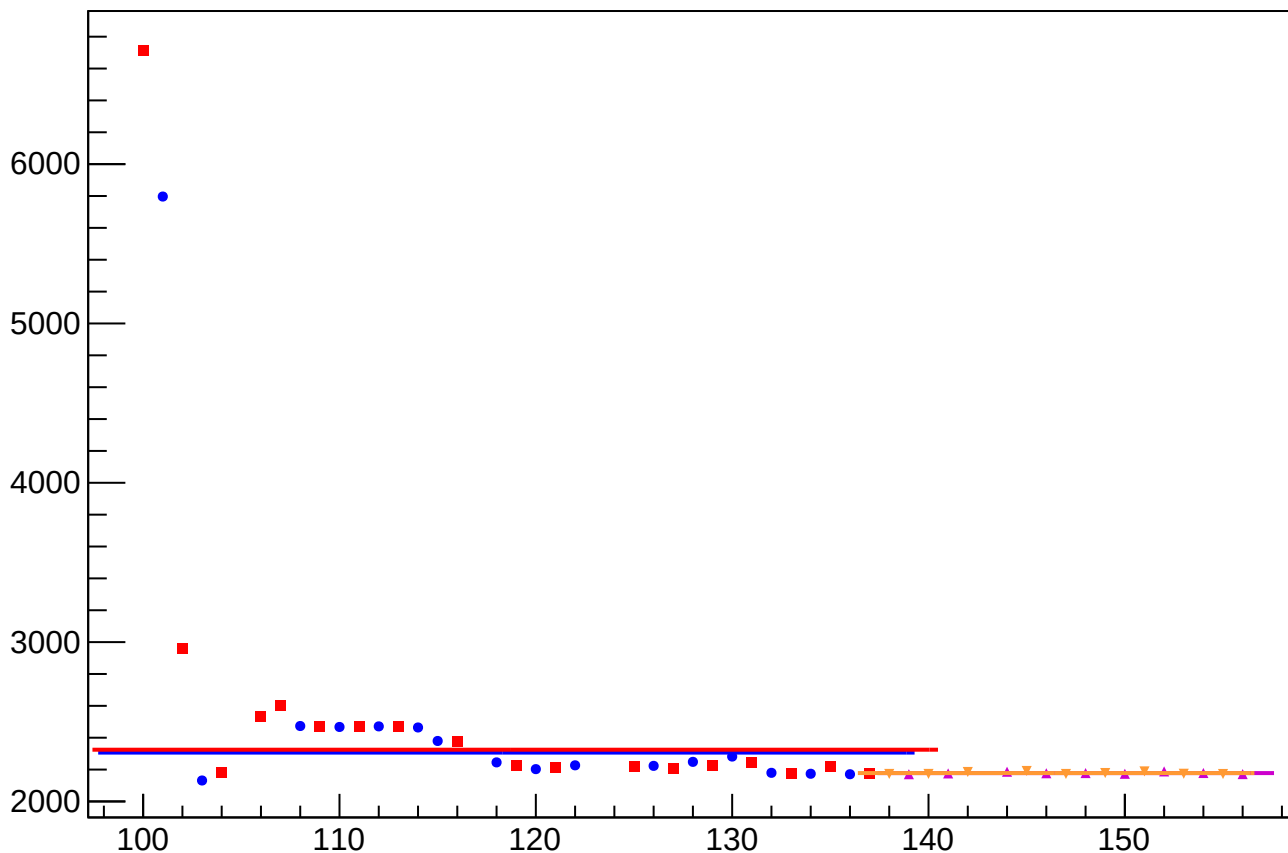
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -1307.580+/-580.597 χ^2/NDF : 29.2/24

Out: -799.588+/-596.864 χ^2/NDF : 20.8/26

All: -1060.600+/-416.176 χ^2/NDF : 50.3/51

cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643 $\pm$ 0.617 χ^2 /NDF: 514150.6/15

Left Out: 2178.077 $\pm$ 0.580 χ^2 /NDF:154.7/8

Right Out: 2324.685 $\pm$ 0.615 χ^2 /NDF: 153578.5/17

Left In: 2177.948 $\pm$ 0.550 χ^2 /NDF:108.7/8

Left: 2178.009 $\pm$ 0.399 χ^2 /NDF: 263.4/17

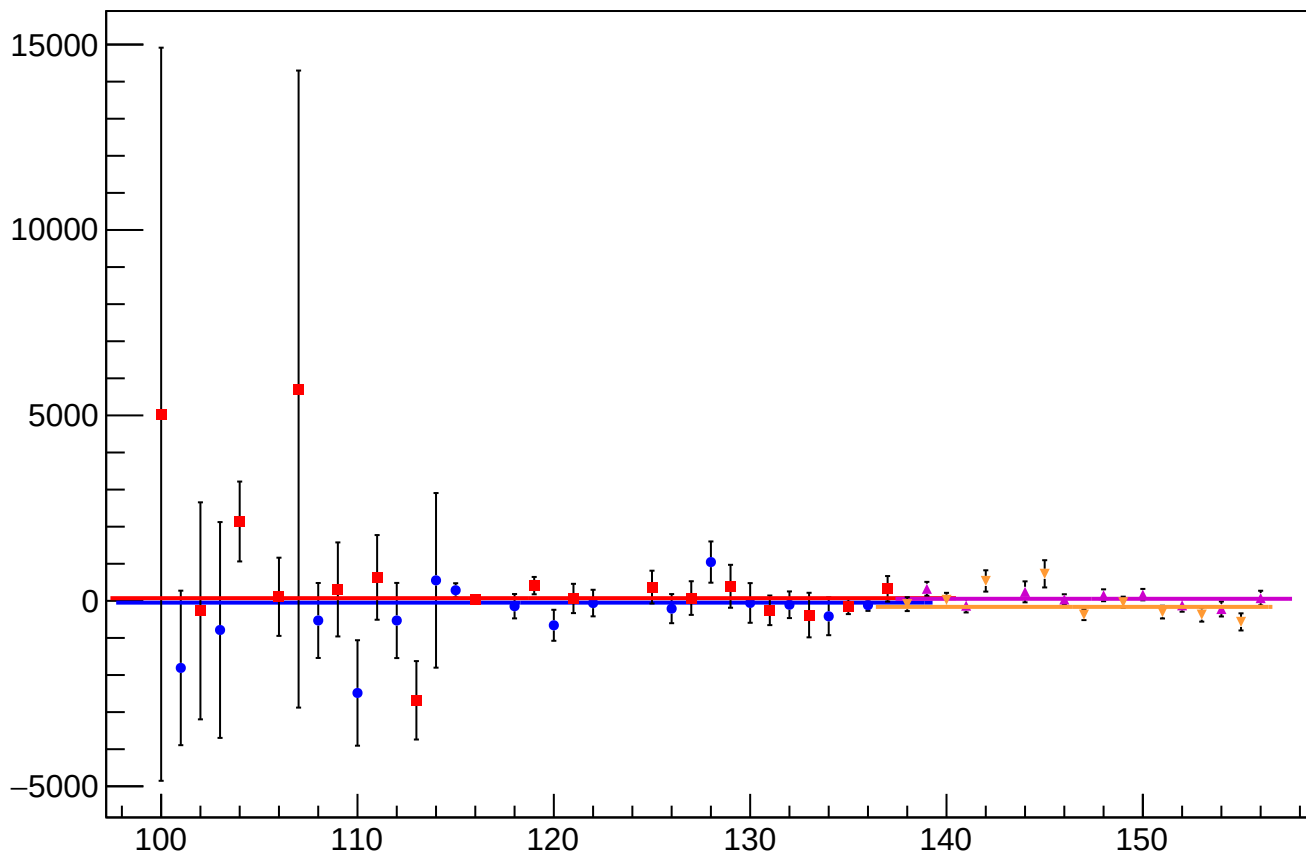
Right: 2315.698 $\pm$ 0.436 χ^2 /NDF: 668158.1/33

In: 2234.916 $\pm$ 0.411 χ^2 /NDF:538502.6/24

Out: 2247.181 $\pm$ 0.422 χ^2 /NDF:183801.5/26

All: 2240.879 $\pm$ 0.294 χ^2 /NDF: 722738.1/51

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: -162.843 ± 63.640 χ^2/NDF : 20.7/8

Right Out: 72.198 ± 82.322 χ^2/NDF : 17.4/17

Left In: 55.181 ± 59.003 χ^2/NDF : 7.4/8

Left: -45.600 ± 43.268 χ^2/NDF : 34.3/17

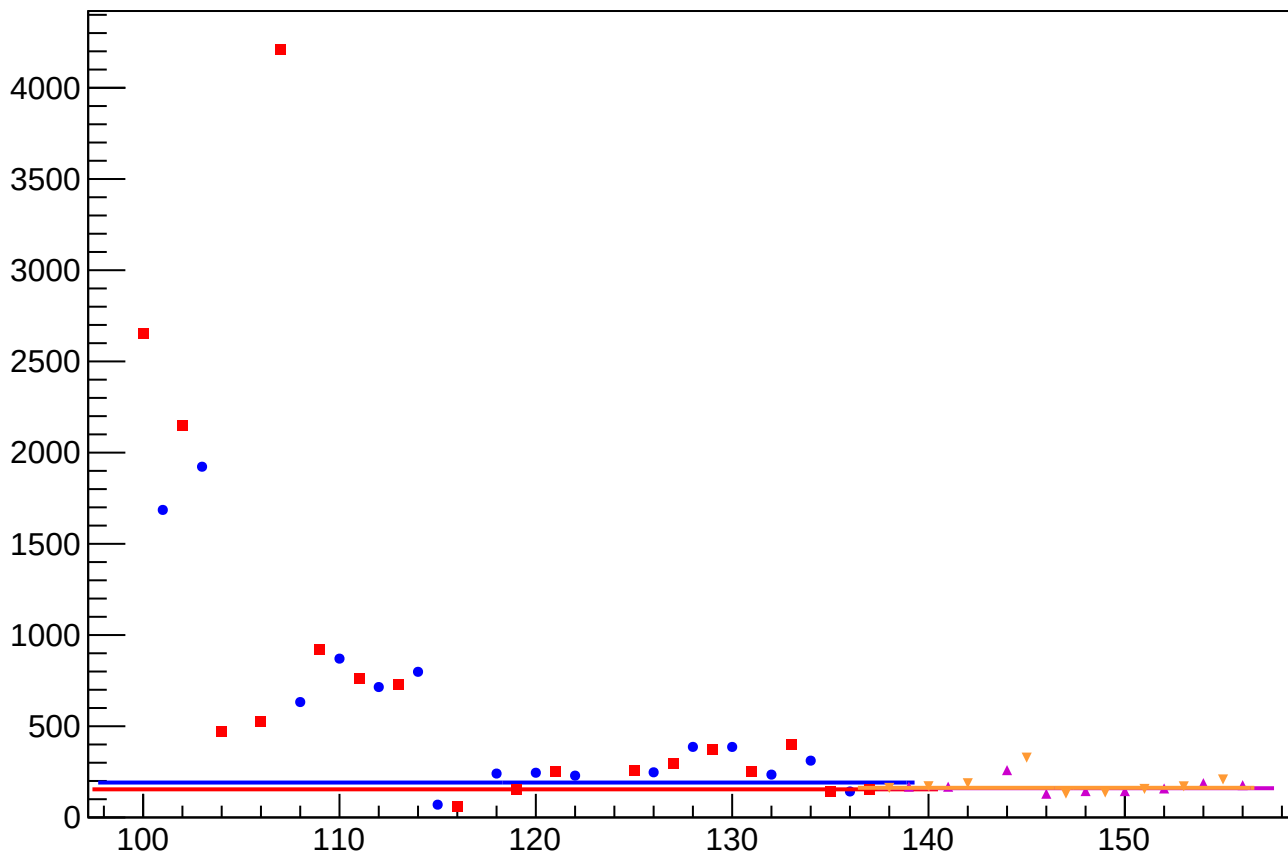
Right: 18.067 ± 61.024 χ^2/NDF : 32.7/33

In: 24.616 ± 49.495 χ^2/NDF : 22.6/24

Out: -74.921 ± 50.349 χ^2/NDF : 43.2/26

All: -24.301 ± 35.296 χ^2/NDF : 67.8/51

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405 $\pm$ 0.064 χ^2 /NDF: 5063603.7/15

Left Out: 162.489 $\pm$ 0.045 χ^2 /NDF: 662694.7/8

Right Out: 154.121 $\pm$ 0.058 χ^2 /NDF: 6108665.0/17

Left In: 160.234 $\pm$ 0.042 χ^2 /NDF: 440225.7/8

Left: 161.276 $\pm$ 0.031 χ^2 /NDF: 1104270.2/17

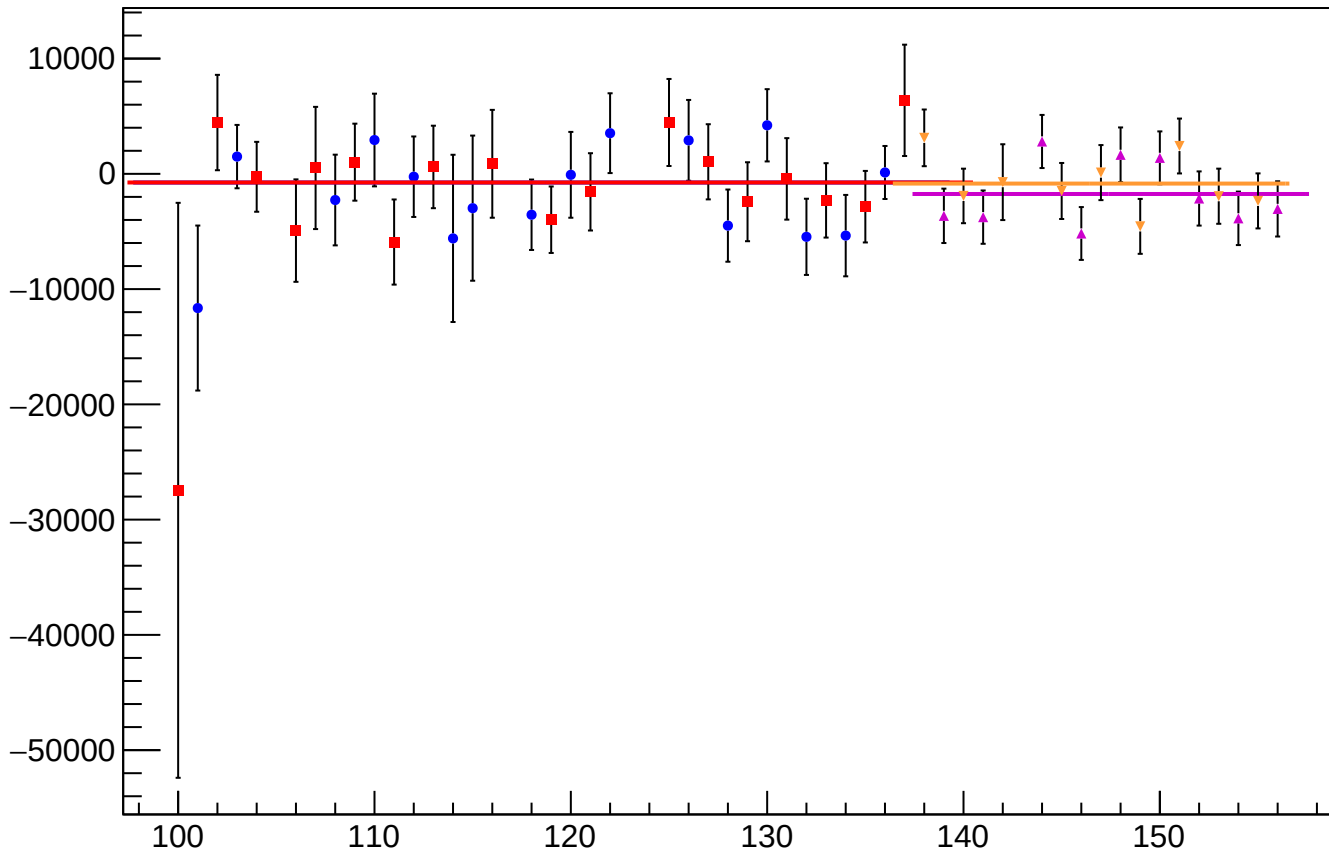
Right: 170.917 $\pm$ 0.043 χ^2 /NDF: 11357079.8/33

In: 169.471 $\pm$ 0.035 χ^2 /NDF: 5669243.6/24

Out: 159.359 $\pm$ 0.036 χ^2 /NDF: 6784292.9/26

All: 164.501 $\pm$ 0.025 χ^2 /NDF: 12494569.5/53

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: -844.411+/-820.903 χ^2/NDF : 7.9/8

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -1747.785+/-777.702 χ^2/NDF : 12.6/8

Left: -1320.493+/-564.573 χ^2/NDF : 21.2/17

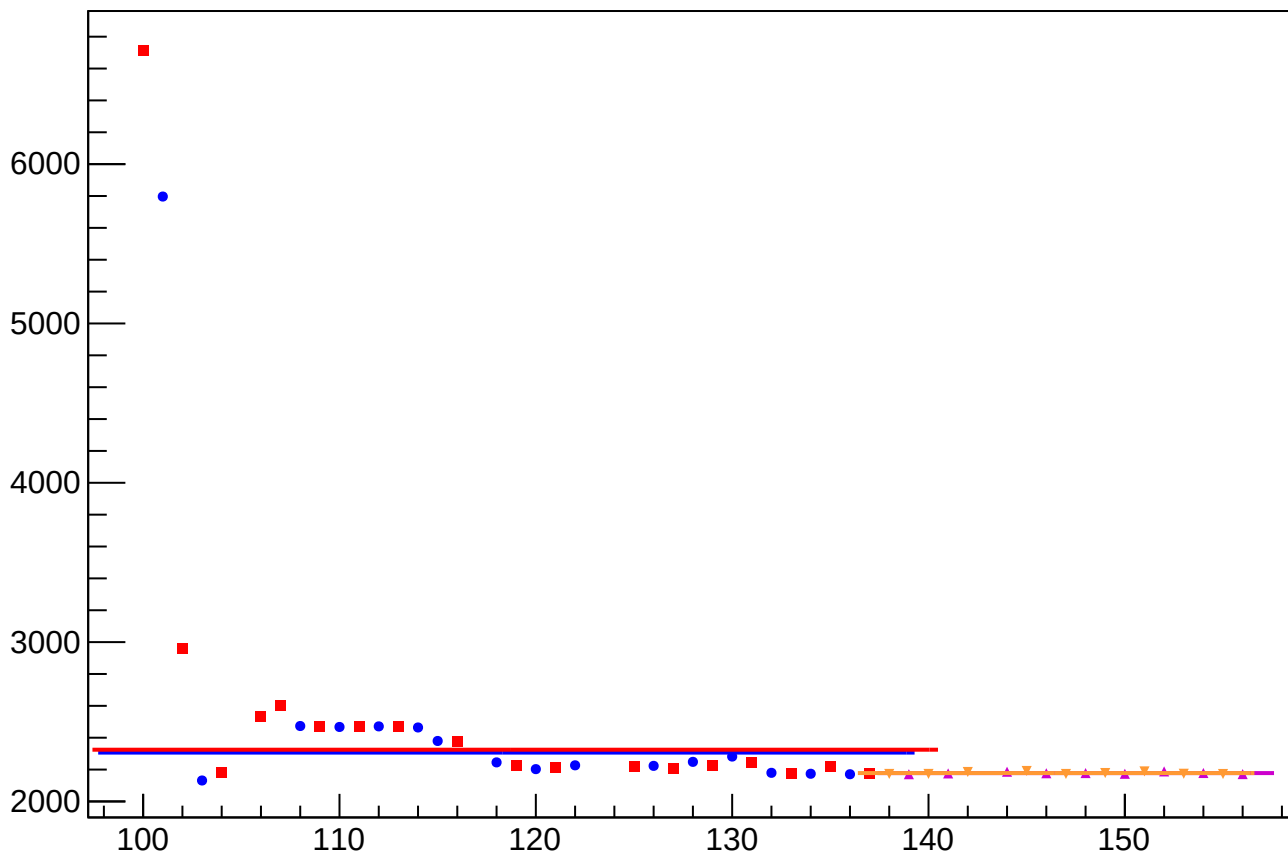
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -1307.580+/-580.597 χ^2/NDF : 29.2/24

Out: -799.588+/-596.864 χ^2/NDF : 20.8/26

All: -1060.600+/-416.176 χ^2/NDF : 50.3/51

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: 2178.077 ± 0.580 χ^2/NDF : 154.7/8

Right Out: 2324.685 ± 0.615 χ^2/NDF : 153578.5/17

Left In: 2177.948 ± 0.550 χ^2/NDF : 108.7/8

Left: 2178.009 ± 0.399 χ^2/NDF : 263.4/17

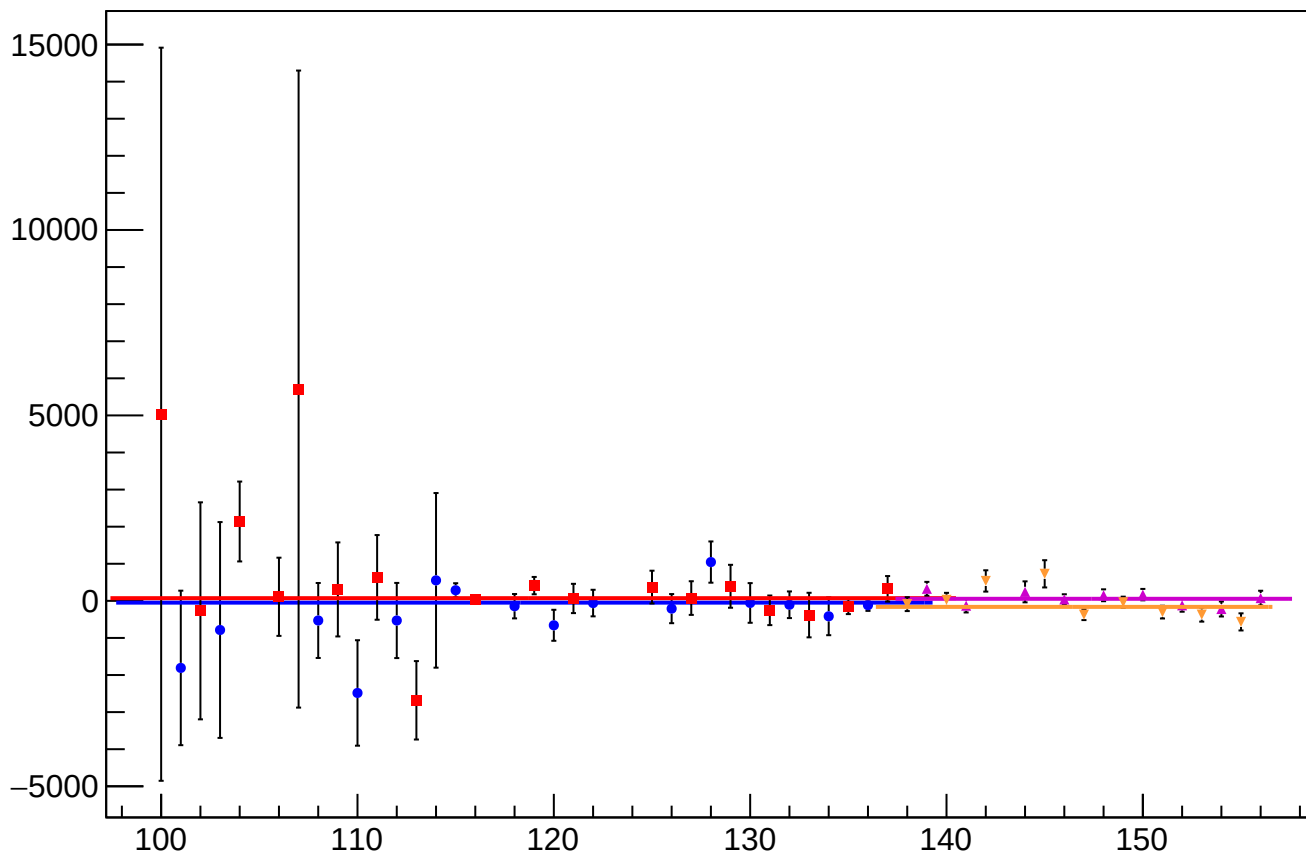
Right: 2315.698 ± 0.436 χ^2/NDF : 668158.1/33

In: 2234.916 ± 0.411 χ^2/NDF : 538502.6/24

Out: 2247.181 ± 0.422 χ^2/NDF : 183801.5/26

All: 2240.879 ± 0.294 χ^2/NDF : 722738.1/51

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: -162.843 ± 63.640 χ^2/NDF : 20.7/8

Right Out: 72.198 ± 82.322 χ^2/NDF : 17.4/17

Left In: 55.181 ± 59.003 χ^2/NDF : 7.4/8

Left: -45.600 ± 43.268 χ^2/NDF : 34.3/17

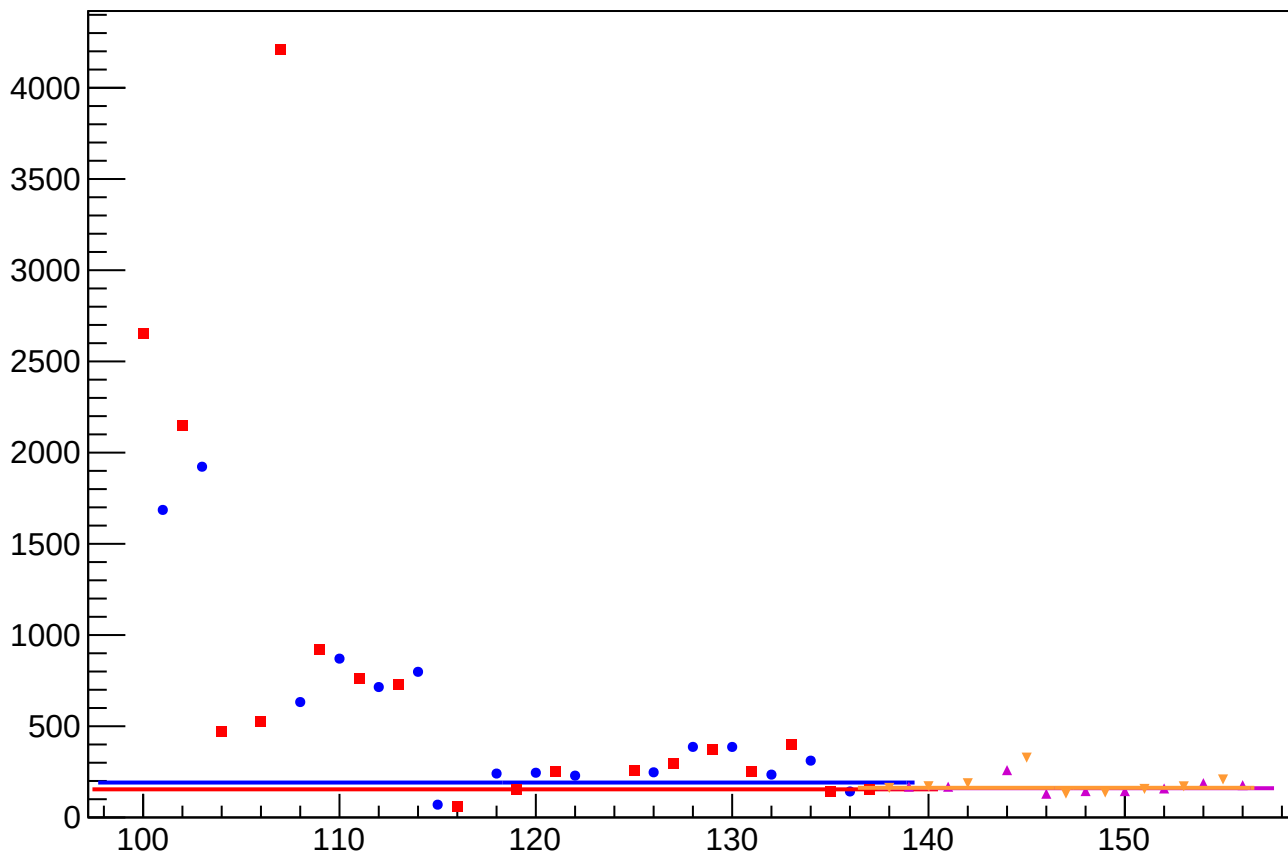
Right: 18.067 ± 61.024 χ^2/NDF : 32.7/33

In: 24.616 ± 49.495 χ^2/NDF : 22.6/24

Out: -74.921 ± 50.349 χ^2/NDF : 43.2/26

All: -24.301 ± 35.296 χ^2/NDF : 67.8/51

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405 $\pm$ 0.064 χ^2 /NDF: 5063603.7/15

Left Out: 162.489 $\pm$ 0.045 χ^2 /NDF:662694.7/8

Right Out: 154.121 $\pm$ 0.058 χ^2 /NDF: 6108665.0/17

Left In: 160.234 $\pm$ 0.042 χ^2 /NDF:440225.7/8

Left: 161.276 $\pm$ 0.031 χ^2 /NDF: 1104270.2/17

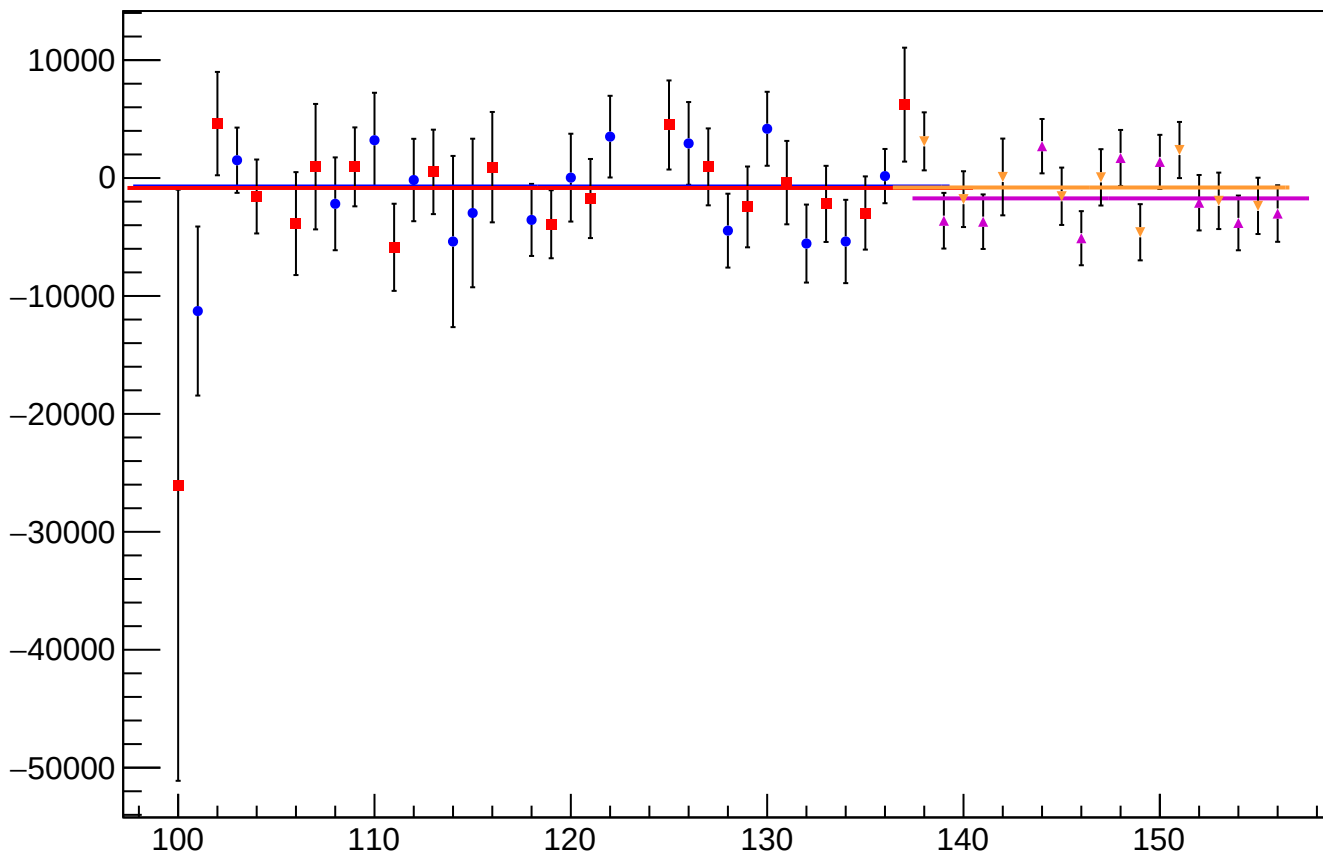
Right: 170.917 $\pm$ 0.043 χ^2 /NDF: 11357079.8/33

In: 169.471 $\pm$ 0.035 χ^2 /NDF:5669243.6/24

Out: 159.359 $\pm$ 0.036 χ^2 /NDF:6784292.9/26

All: 164.501 $\pm$ 0.025 χ^2 /NDF: 12494569.5/53

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: -801.128+/-820.627 χ^2/NDF : 8.0/8

Right Out: -842.157+/-873.586 χ^2/NDF : 12.2/17

Left In: -1724.700+/-777.976 χ^2/NDF : 12.2/8

Left: -1287.538+/-564.588 χ^2/NDF : 20.9/17

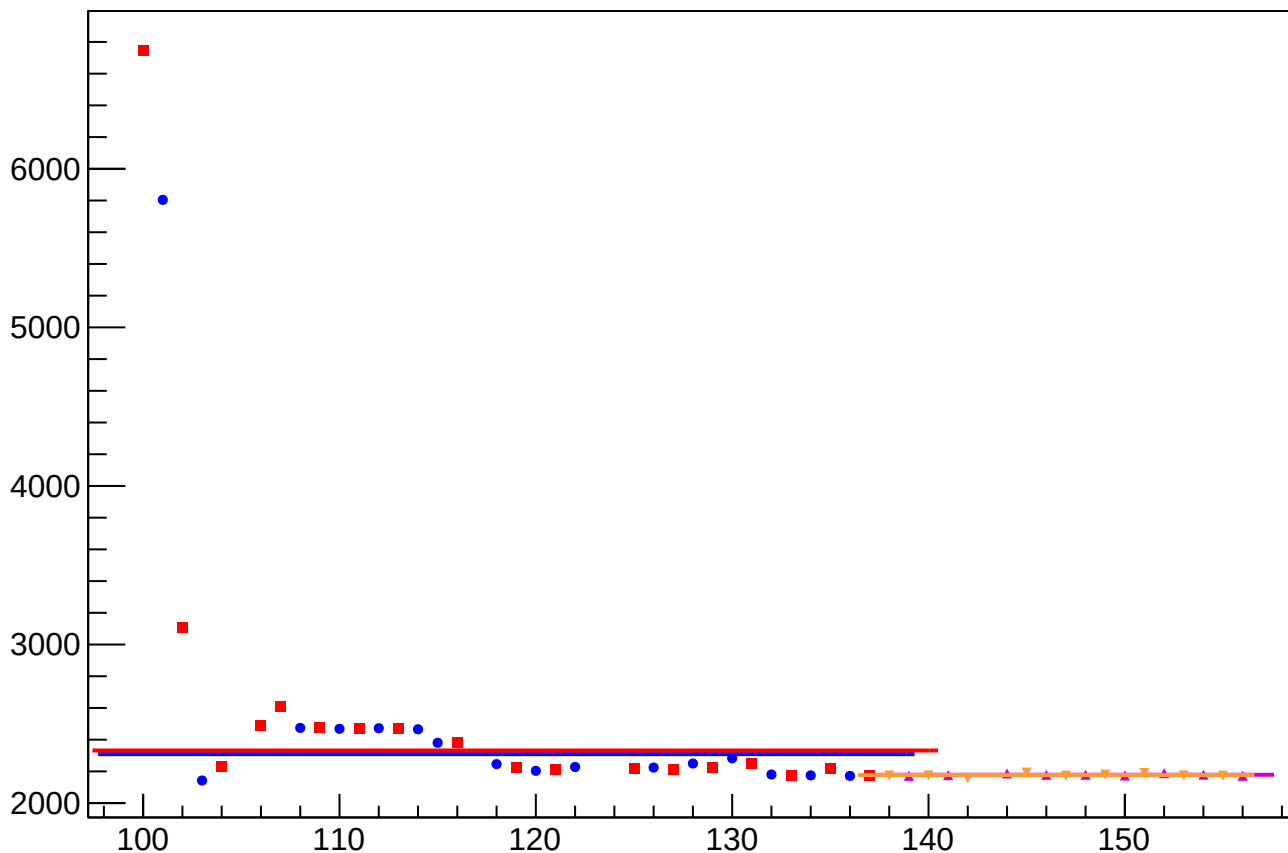
Right: -779.643+/-617.702 χ^2/NDF : 28.0/33

In: -1279.025+/-580.972 χ^2/NDF : 28.8/24

Out: -820.361+/-598.118 χ^2/NDF : 20.1/26

All: -1056.362+/-416.739 χ^2/NDF : 49.3/51

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: 2176.981 ± 0.580 χ^2/NDF : 235.5/8

Right Out: 2331.849 ± 0.618 χ^2/NDF : 167321.7/17

Left In: 2178.716 ± 0.550 χ^2/NDF : 106.7/8

Left: 2177.894 ± 0.399 χ^2/NDF : 346.9/17

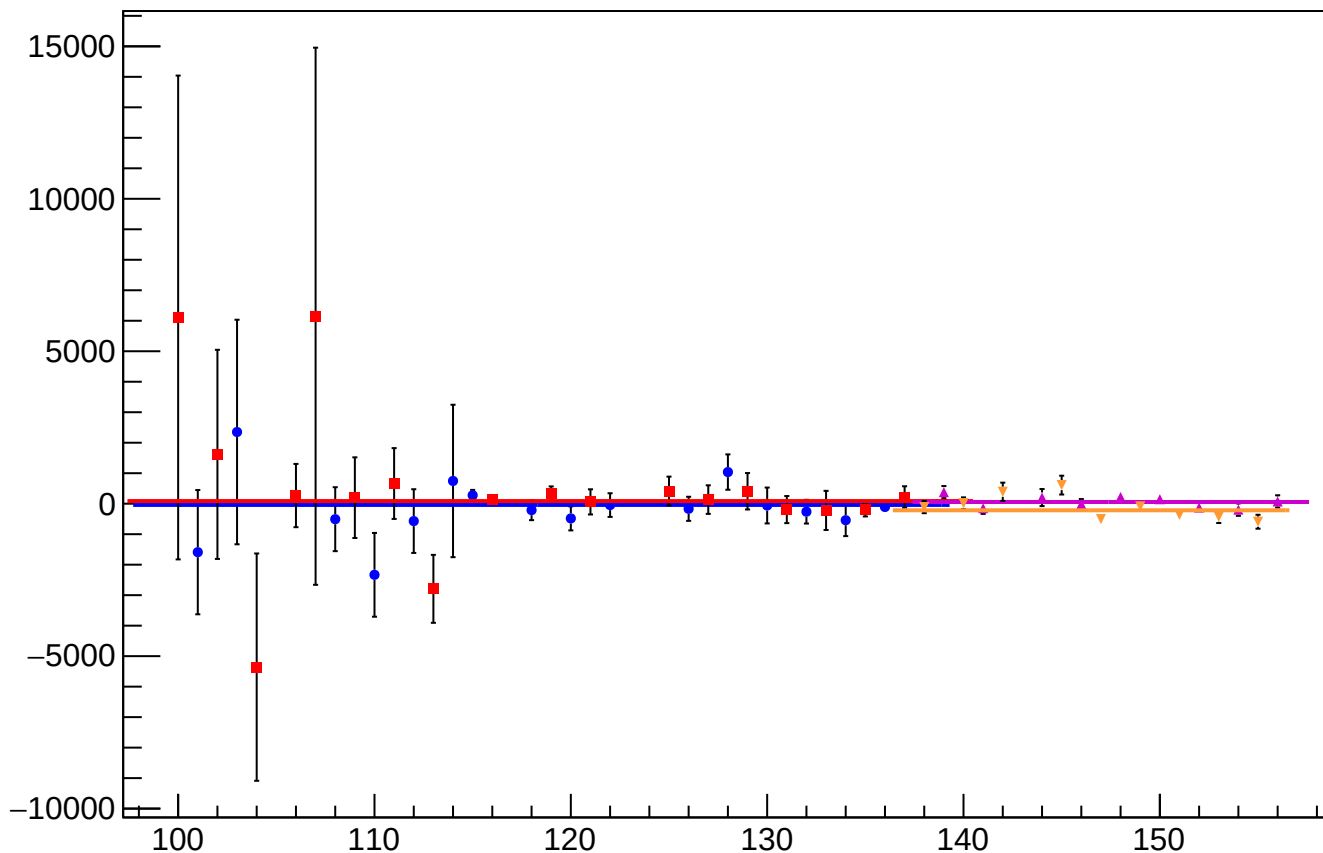
Right: 2320.294 ± 0.437 χ^2/NDF : 681763.7/33

In: 2236.229 ± 0.411 χ^2/NDF : 538559.8/24

Out: 2249.579 ± 0.423 χ^2/NDF : 200947.9/26

All: 2242.710 ± 0.295 χ^2/NDF : 740020.4/51

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: -216.233 ± 64.392 χ^2/NDF : 21.9/8

Right Out: 86.379 ± 86.088 χ^2/NDF : 15.0/17

Left In: 55.993 ± 60.369 χ^2/NDF : 8.5/8

Left: -71.352 ± 44.041 χ^2/NDF : 39.9/17

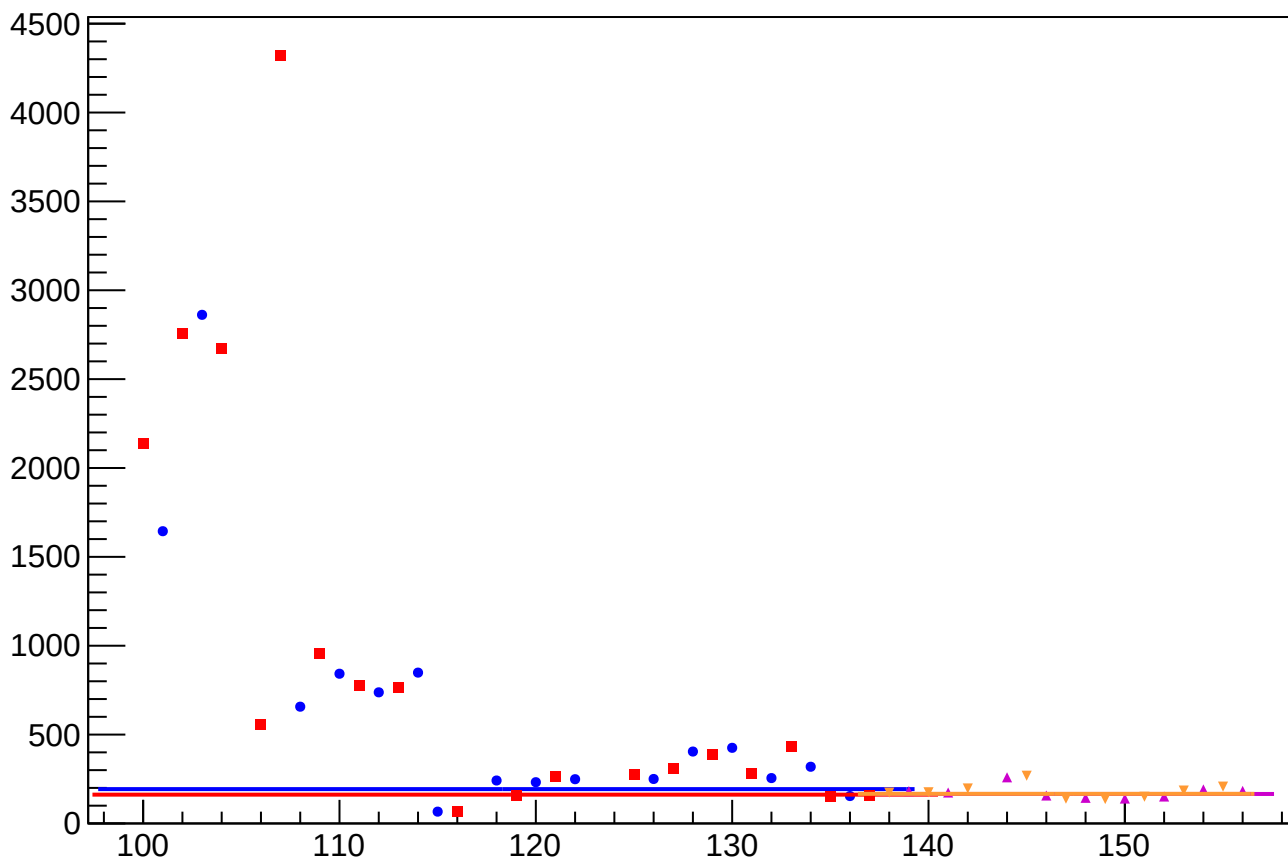
Right: 27.604 ± 62.990 χ^2/NDF : 30.0/33

In: 27.244 ± 50.540 χ^2/NDF : 23.3/24

Out: -107.669 ± 51.563 χ^2/NDF : 44.8/26

All: -38.861 ± 36.094 χ^2/NDF : 71.6/51

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 193.255 $\pm$ 0.065 χ^2 /NDF: 5617847.0/15

Left Out: 166.567 $\pm$ 0.046 χ^2 /NDF: 483633.8/8

Right Out: 162.114 $\pm$ 0.061 χ^2 /NDF: 7070489.1/17

Left In: 165.889 $\pm$ 0.043 χ^2 /NDF: 406043.5/8

Left: 166.206 $\pm$ 0.031 χ^2 /NDF: 889795.6/17

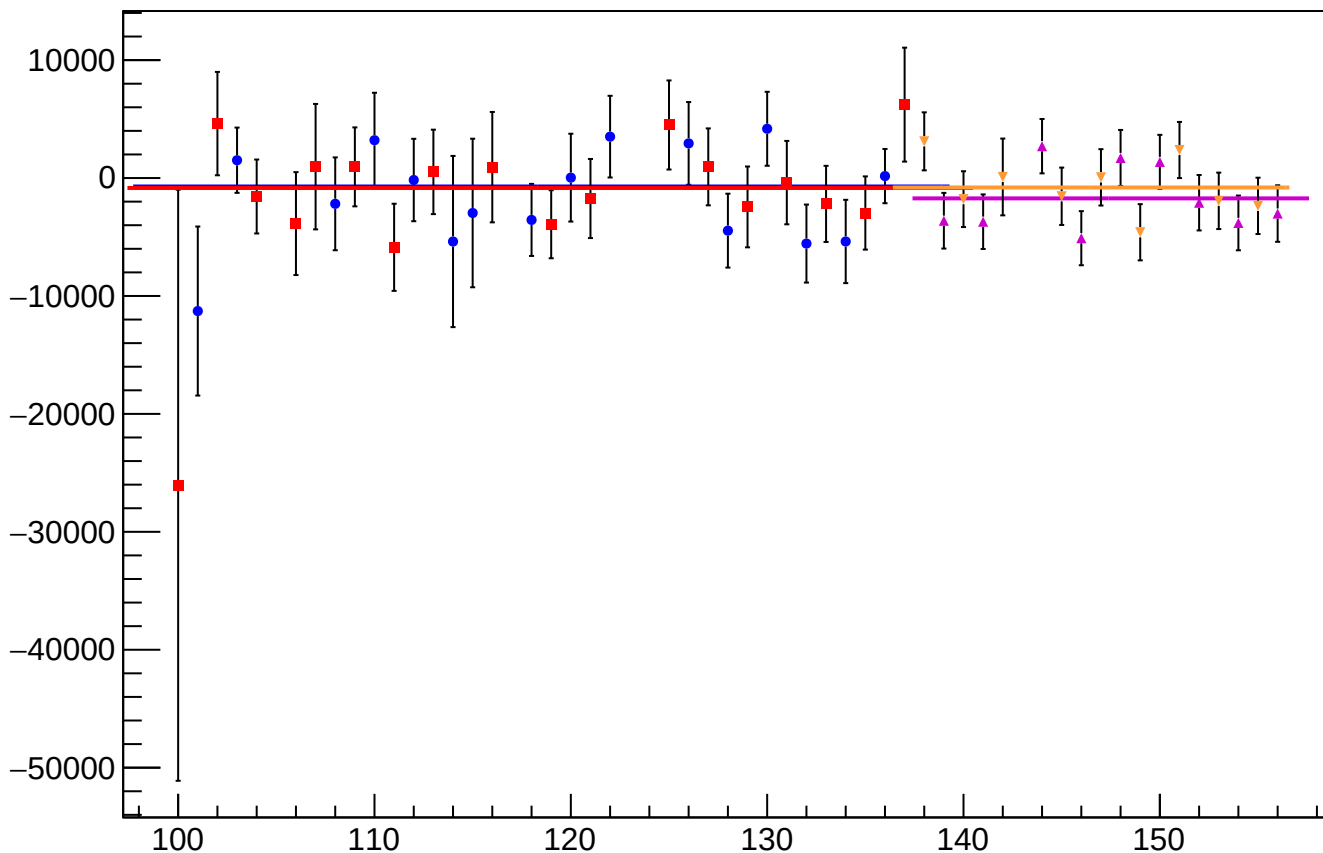
Right: 176.583 $\pm$ 0.045 χ^2 /NDF: 12809933.8/33

In: 174.075 $\pm$ 0.036 χ^2 /NDF: 6146828.7/24

Out: 164.970 $\pm$ 0.036 χ^2 /NDF: 7557555.0/26

All: 169.613 $\pm$ 0.026 χ^2 /NDF: 13736187.0/53

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: -801.130+/-820.627 χ^2/NDF : 8.0/8

Right Out: -842.159+/-873.586 χ^2/NDF : 12.2/17

Left In: -1724.700+/-777.976 χ^2/NDF : 12.2/8

Left: -1287.539+/-564.588 χ^2/NDF : 20.9/17

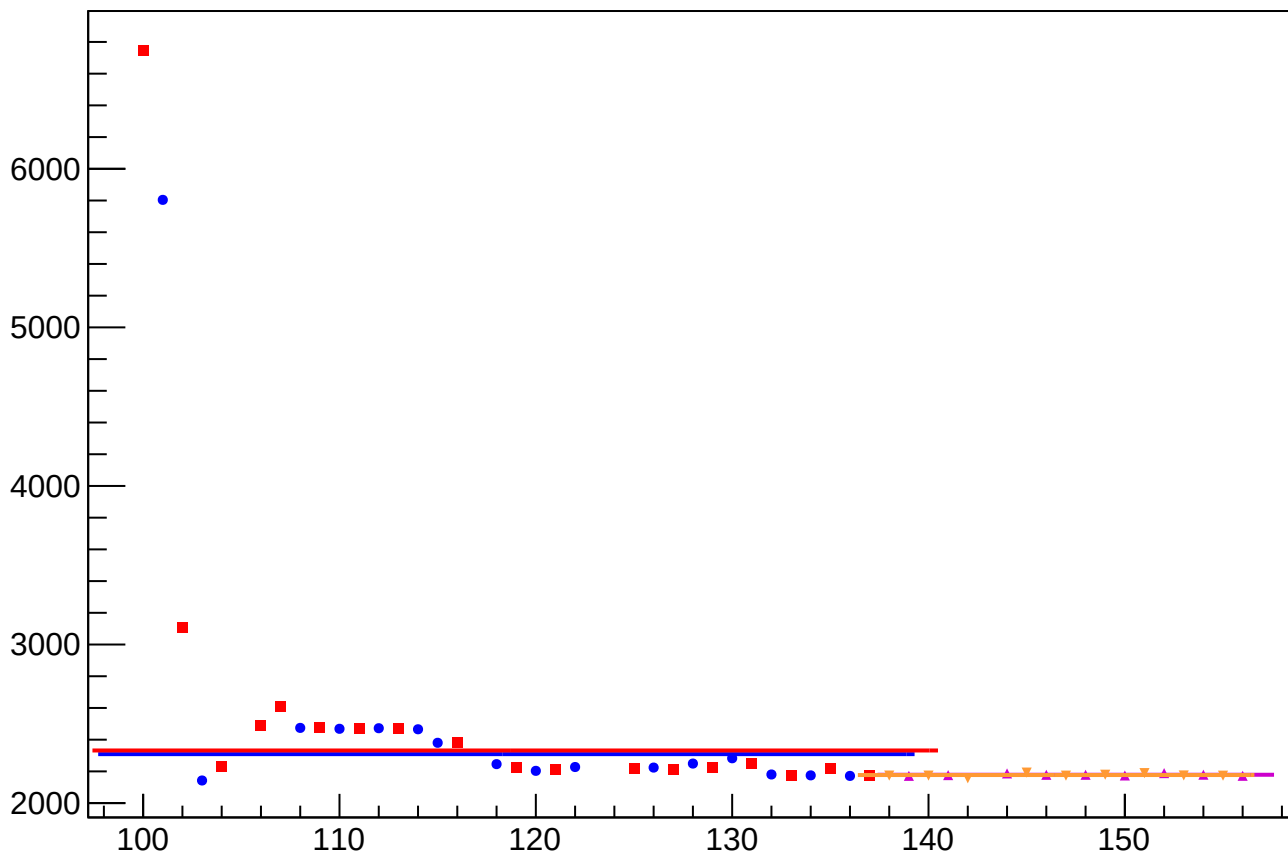
Right: -779.645+/-617.702 χ^2/NDF : 28.0/33

In: -1279.026+/-580.972 χ^2/NDF : 28.8/24

Out: -820.363+/-598.118 χ^2/NDF : 20.1/26

All: -1056.363+/-416.739 χ^2/NDF : 49.3/51

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: 2176.981 ± 0.580 χ^2/NDF : 235.5/8

Right Out: 2331.849 ± 0.618 χ^2/NDF : 167321.6/17

Left In: 2178.716 ± 0.550 χ^2/NDF : 106.7/8

Left: 2177.895 ± 0.399 χ^2/NDF : 346.9/17

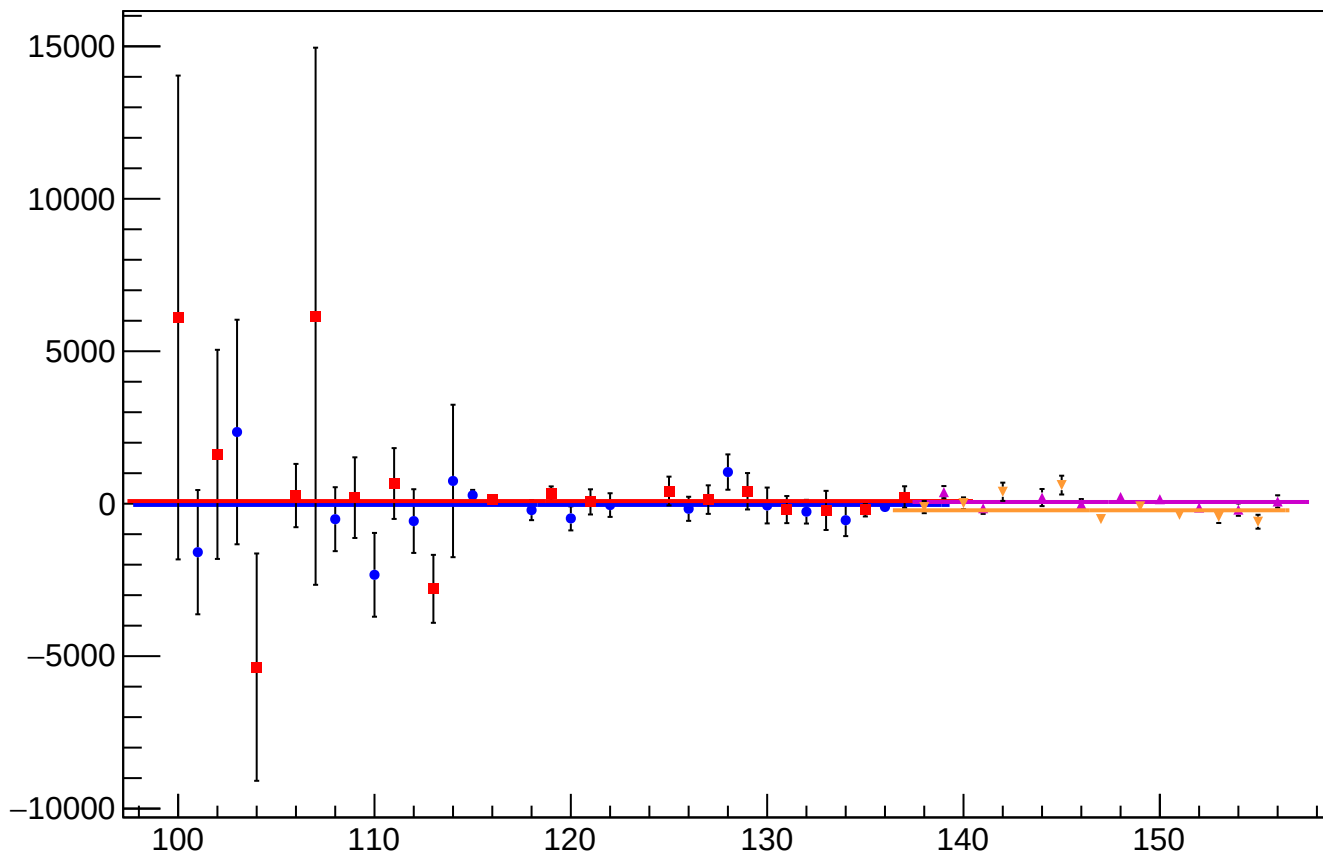
Right: 2320.294 ± 0.437 χ^2/NDF : 681763.7/33

In: 2236.229 ± 0.411 χ^2/NDF : 538559.8/24

Out: 2249.579 ± 0.423 χ^2/NDF : 200947.8/26

All: 2242.710 ± 0.295 χ^2/NDF : 740020.3/51

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: -216.235 ± 64.392 $\chi^2/\text{NDF}: 21.9/8$

Right Out: 86.380 ± 86.087 $\chi^2/\text{NDF}: 15.0/17$

Left In: 55.991 ± 60.370 $\chi^2/\text{NDF}: 8.5/8$

Left: -71.354 ± 44.041 $\chi^2/\text{NDF}: 39.9/17$

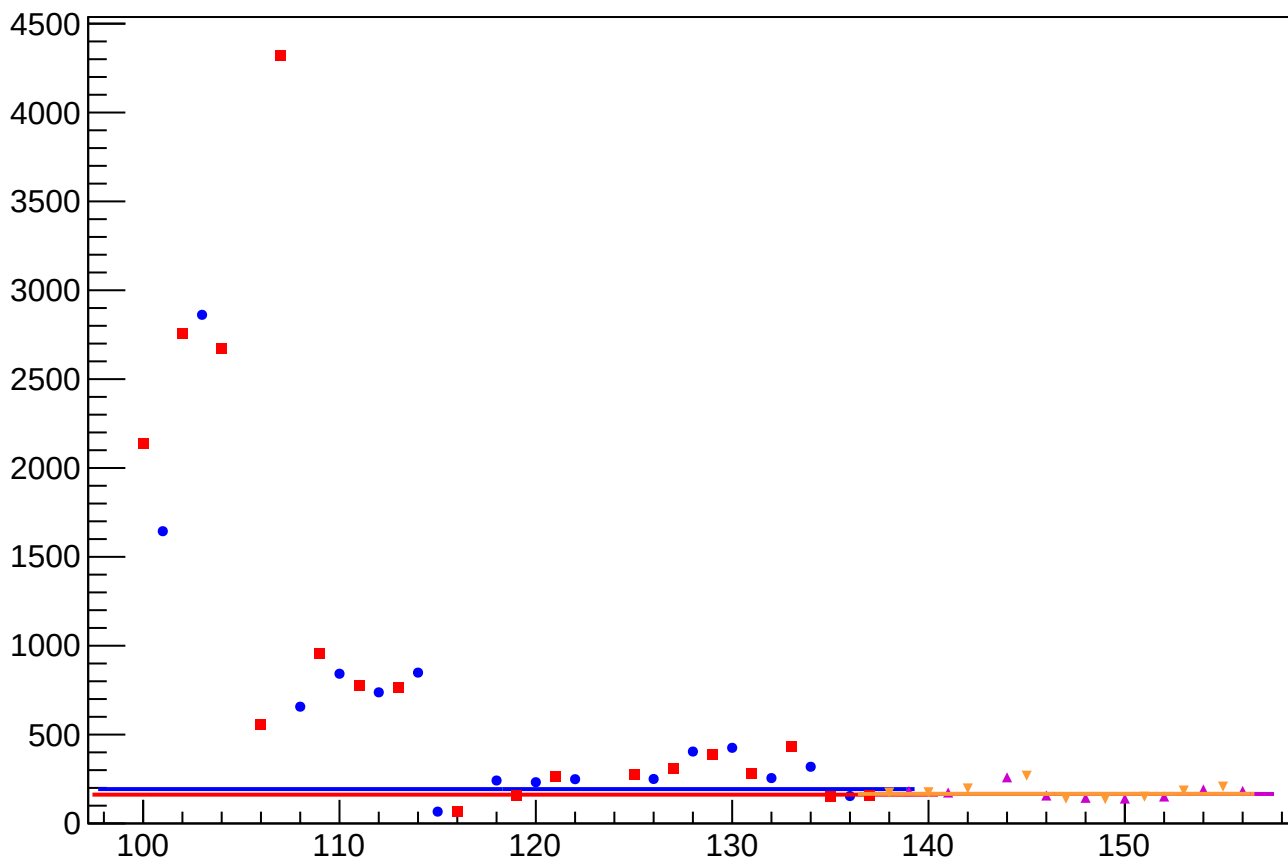
Right: 27.606 ± 62.989 $\chi^2/\text{NDF}: 30.0/33$

In: 27.243 ± 50.540 $\chi^2/\text{NDF}: 23.3/24$

Out: -107.668 ± 51.563 $\chi^2/\text{NDF}: 44.8/26$

All: -38.861 ± 36.094 $\chi^2/\text{NDF}: 71.6/51$

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: 166.568+/-0.046 χ^2/NDF : 483615.3/8

Right Out: 162.112+/-0.061 χ^2/NDF : 7070547.9/17

Left In: 165.889+/-0.043 χ^2/NDF : 406030.4/8

Left: 166.207+/-0.031 χ^2/NDF : 889764.2/17

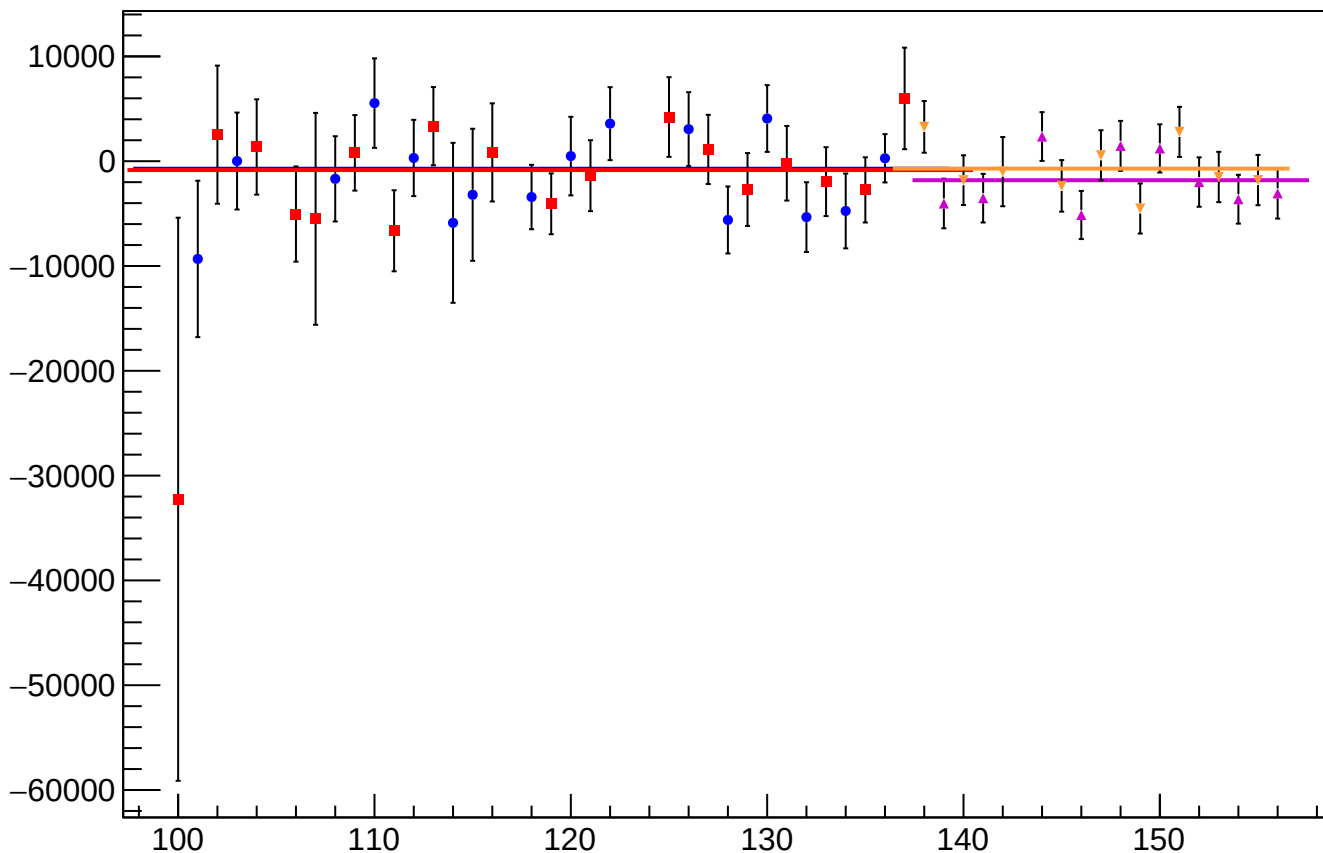
Right: 176.581+/-0.045 χ^2/NDF : 12810031.9/33

In: 174.074+/-0.036 χ^2/NDF : 6146829.7/24

Out: 164.969+/-0.036 χ^2/NDF : 7557600.1/26

All: 169.613+/-0.026 χ^2/NDF : 13736233.9/53

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: -706.483+/-824.433 χ^2/NDF : 8.6/8

Right Out: -844.810+/-928.703 χ^2/NDF : 12.9/17

Left In: -1816.781+/-780.688 χ^2/NDF : 11.2/8

Left: -1291.869+/-566.864 χ^2/NDF : 20.8/17

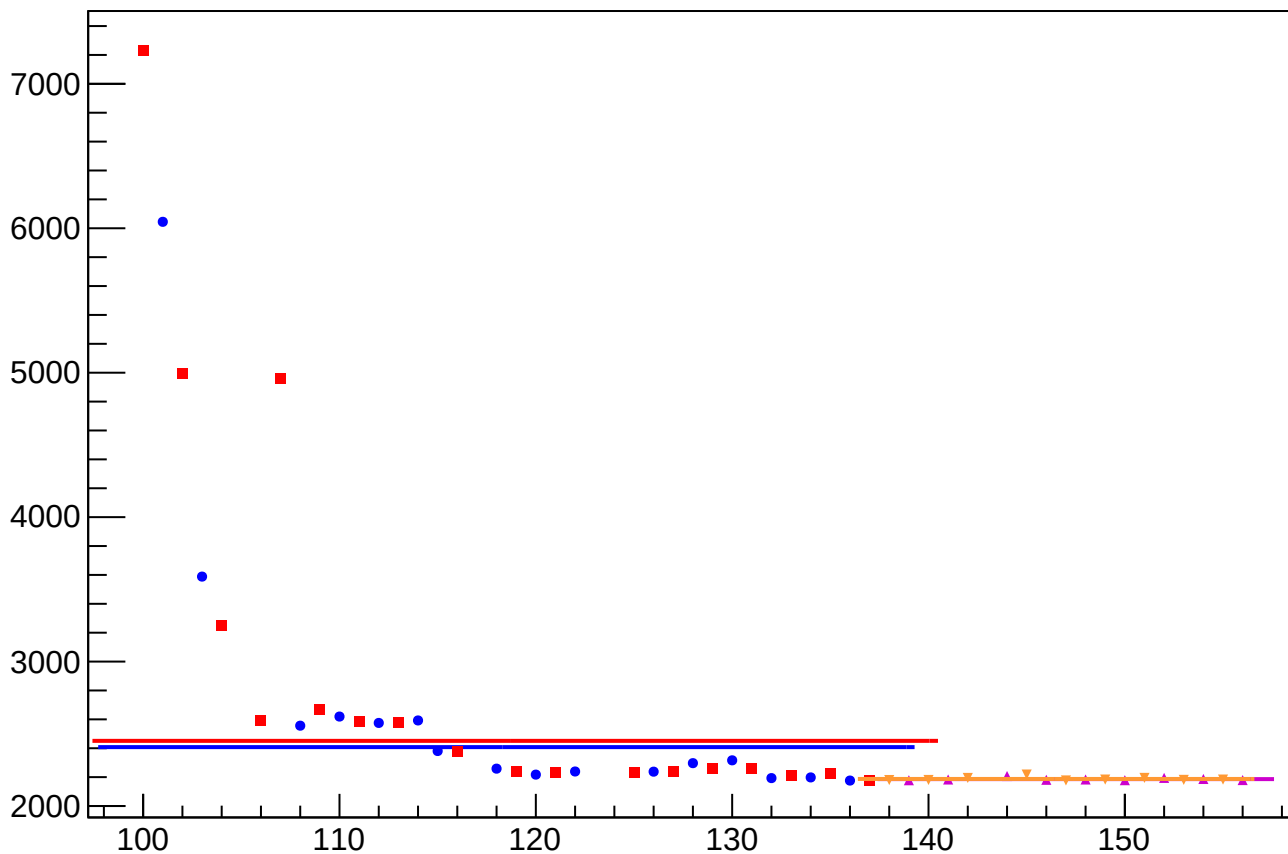
Right: -781.340+/-652.237 χ^2/NDF : 28.7/33

In: -1355.257+/-594.230 χ^2/NDF : 27.9/24

Out: -767.449+/-616.545 χ^2/NDF : 21.5/26

All: -1072.182+/-427.856 χ^2/NDF : 49.9/51

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: 2187.421+/-0.583 χ^2/NDF : 434.7/8

Right Out: 2451.189+/-0.657 χ^2/NDF : 633600.1/17

Left In: 2186.297+/-0.552 χ^2/NDF : 266.9/8

Left: 2186.828+/-0.401 χ^2/NDF : 703.5/17

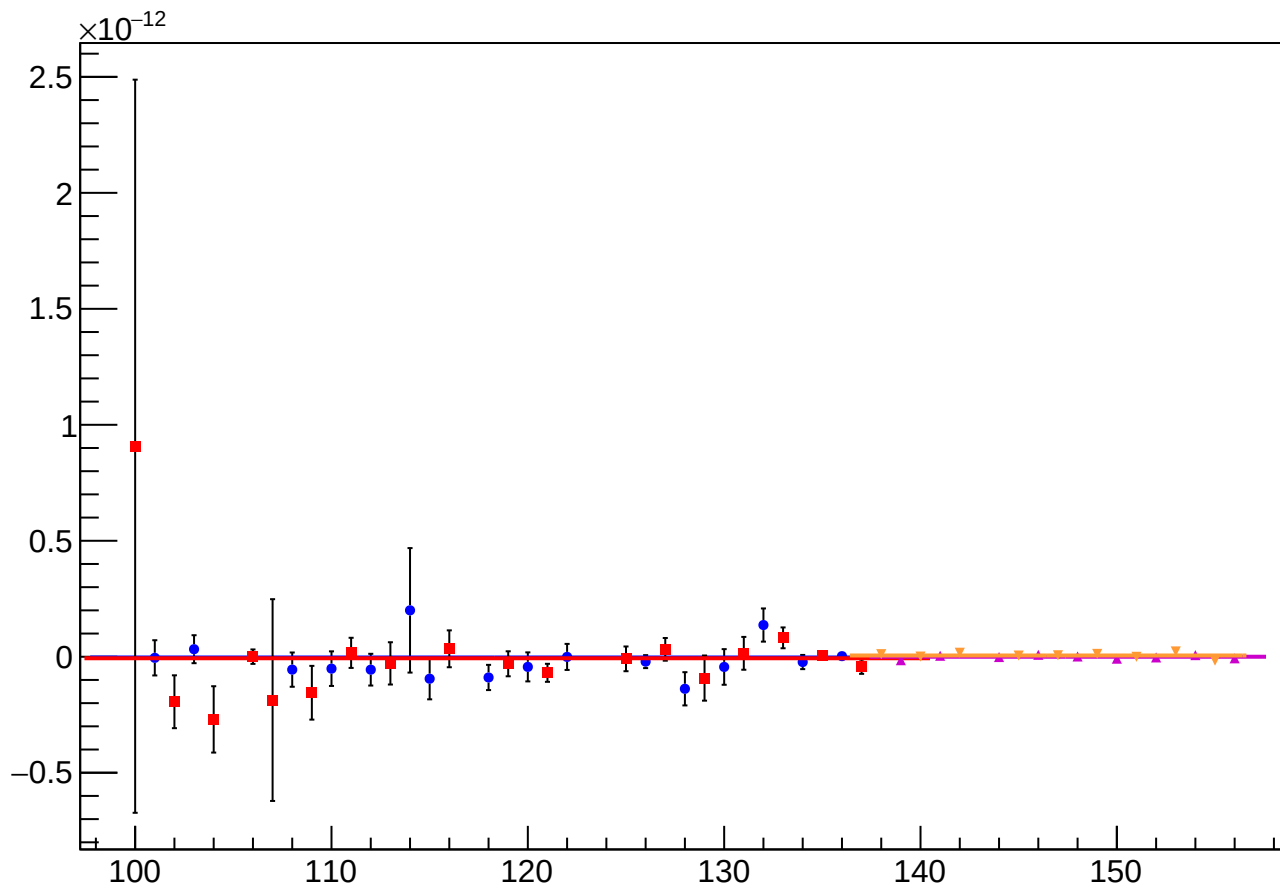
Right: 2429.198+/-0.461 χ^2/NDF : 1312704.2/33

In: 2279.466+/-0.420 χ^2/NDF : 744878.0/24

Out: 2303.673+/-0.436 χ^2/NDF : 724262.7/26

All: 2291.123+/-0.303 χ^2/NDF : 1470738.9/51

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 : 7.8/8

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 8.5/8

Left: 0.000+/-0.000 χ^2/NDF : 18.4/17

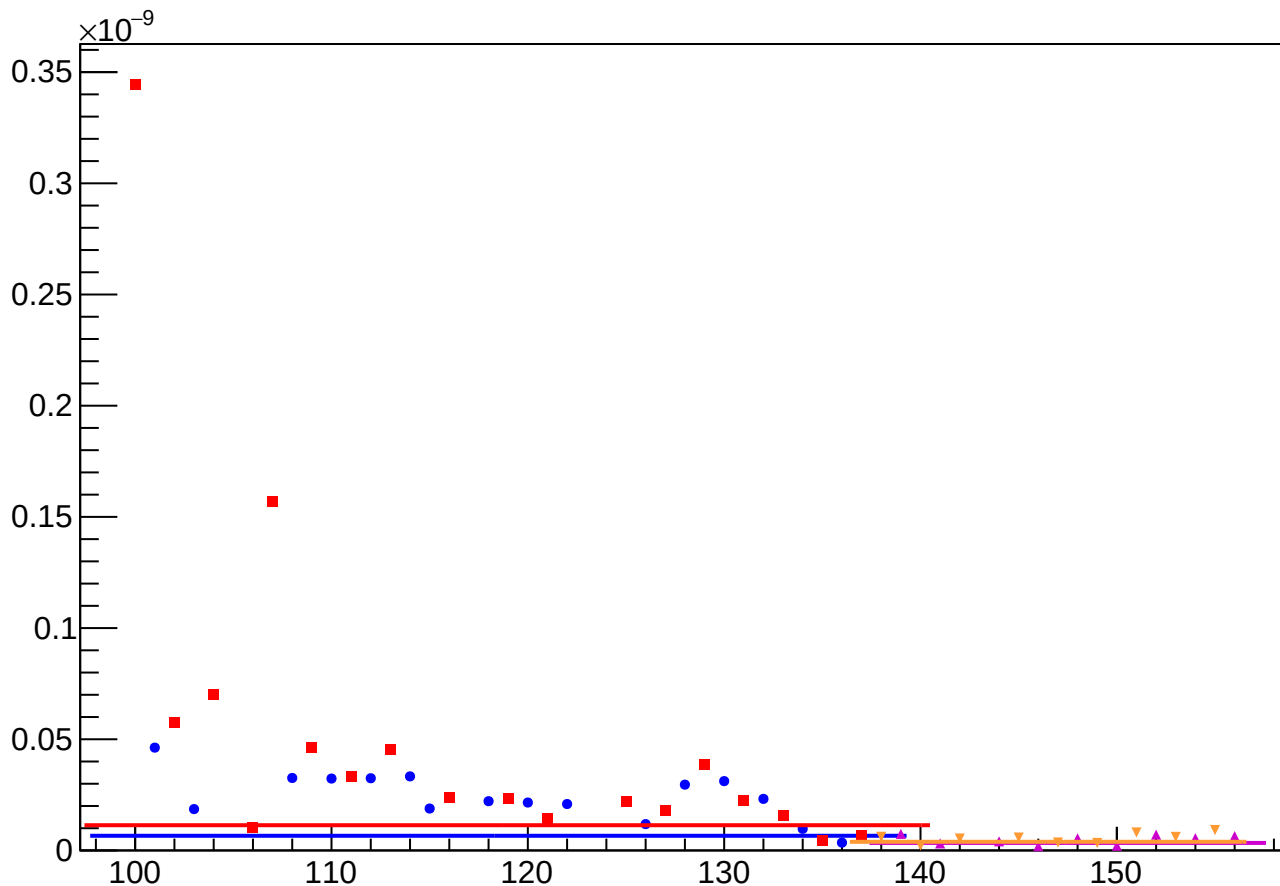
Right: -0.000+/-0.000 χ^2/NDF : 34.5/33

In: -0.000+/-0.000 χ^2/NDF : 24.3/24

Out: 0.000+/-0.000 χ^2/NDF : 28.0/26

All: 0.000+/-0.000 χ^2/NDF : 54.4/51

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 :1075414.9/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2697712.1/17

Left In: 0.000+/-0.000 χ^2/NDF :975265.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2089473.4/17

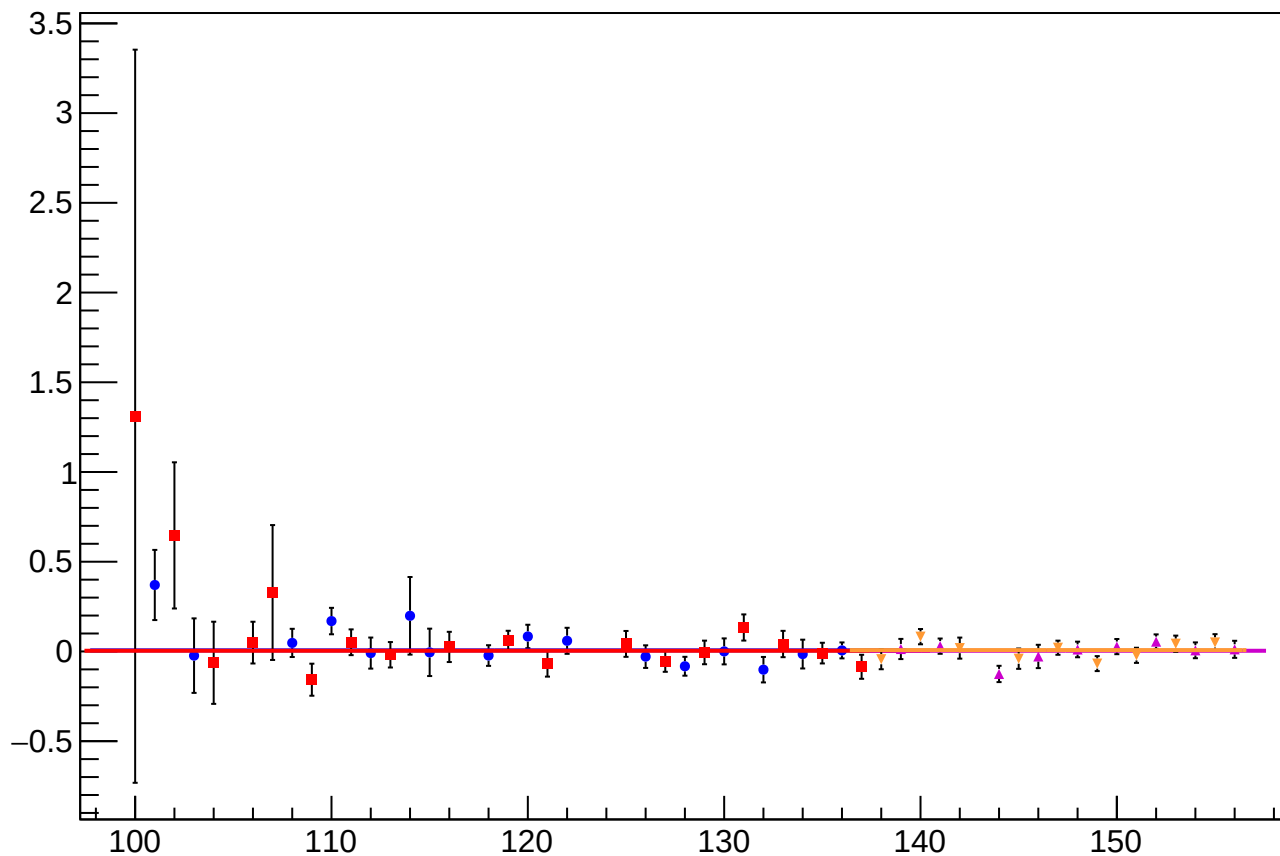
Right: 0.000+/-0.000 χ^2/NDF : 5888629.2/33

In: 0.000+/-0.000 χ^2/NDF :4283541.1/24

Out: 0.000+/-0.000 χ^2/NDF :4857835.8/26

All: 0.000+/-0.000 χ^2/NDF : 9199898.4/51

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: 0.007 $\pm$ 0.015 χ^2 /NDF:10.0/8

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.004 $\pm$ 0.015 χ^2 /NDF:10.7/8

Left: 0.006 $\pm$ 0.011 χ^2 /NDF: 20.7/17

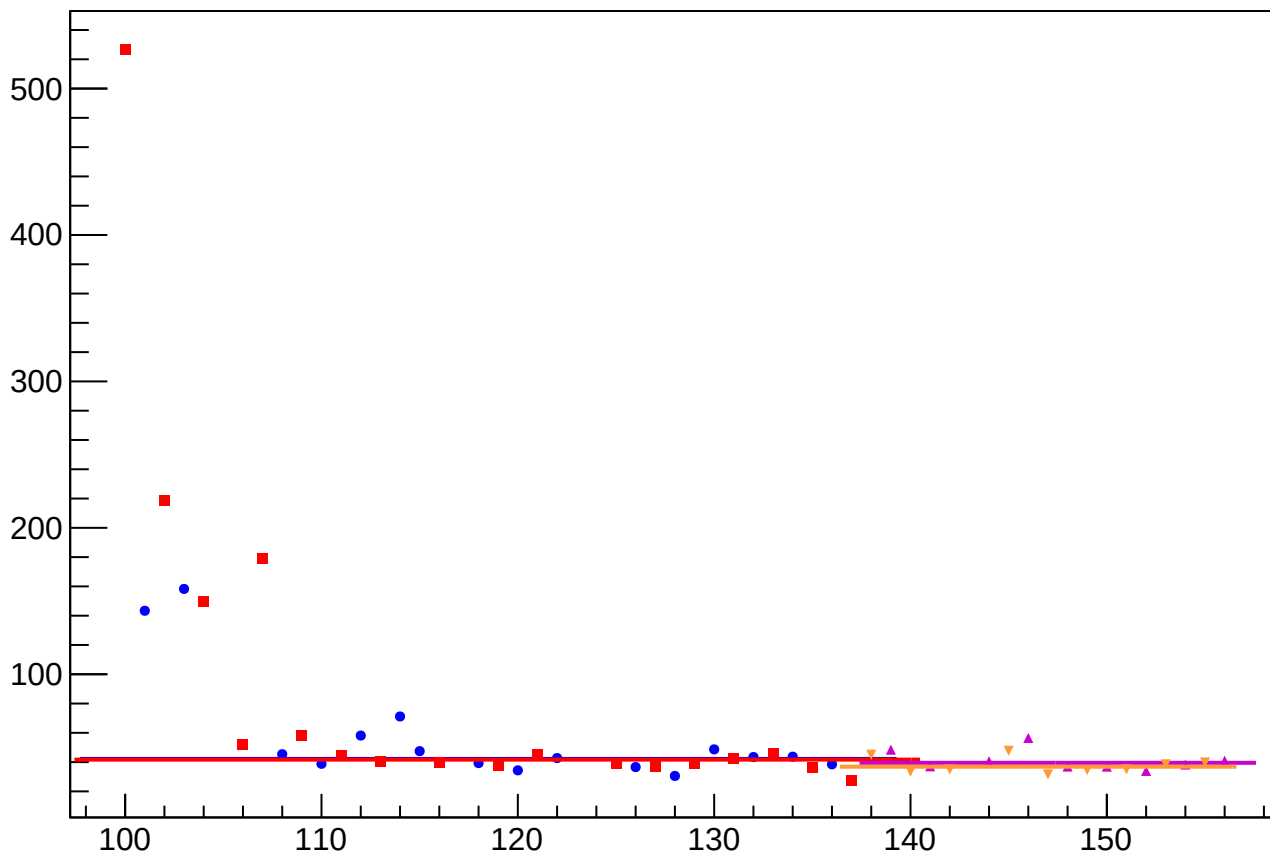
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.005 $\pm$ 0.012 χ^2 /NDF:27.9/24

Out: 0.006 $\pm$ 0.012 χ^2 /NDF:26.3/26

All: 0.005 $\pm$ 0.008 χ^2 /NDF: 54.2/51

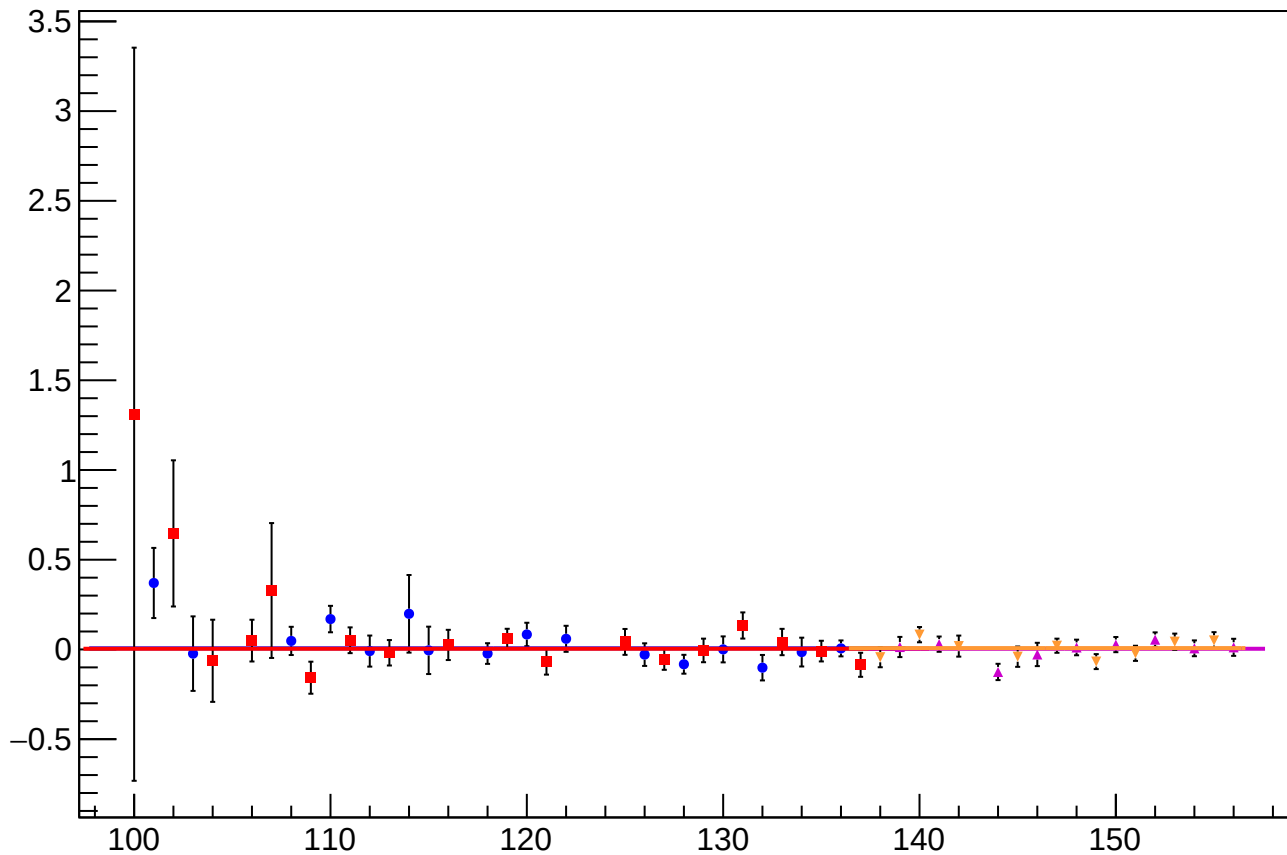
asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.165+/-0.013 χ^2/NDF : 1454378.8/15
 Left Out: 36.858+/-0.011 χ^2/NDF :186643.5/8
 Right Out: 41.692+/-0.013 χ^2/NDF : 1441204.7/17
 Left In: 39.515+/-0.011 χ^2/NDF :250414.0/8

Left: 38.192 $\pm$ 0.008 χ^2 /NDF: 466898.1/17
 Right: 41.933 $\pm$ 0.009 χ^2 /NDF: 2896244.2/33
 In: 40.612 $\pm$ 0.008 χ^2 /NDF:1729493.9/24
 Out: 38.828 $\pm$ 0.008 χ^2 /NDF:1707995.9/26
 All: 39.729 $\pm$ 0.006 χ^2 /NDF: 3460325.4/51

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: 0.007 $\pm$ 0.015 χ^2 /NDF:10.0/8

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.004 $\pm$ 0.015 χ^2 /NDF:10.7/8

Left: 0.006 $\pm$ 0.011 χ^2 /NDF: 20.7/17

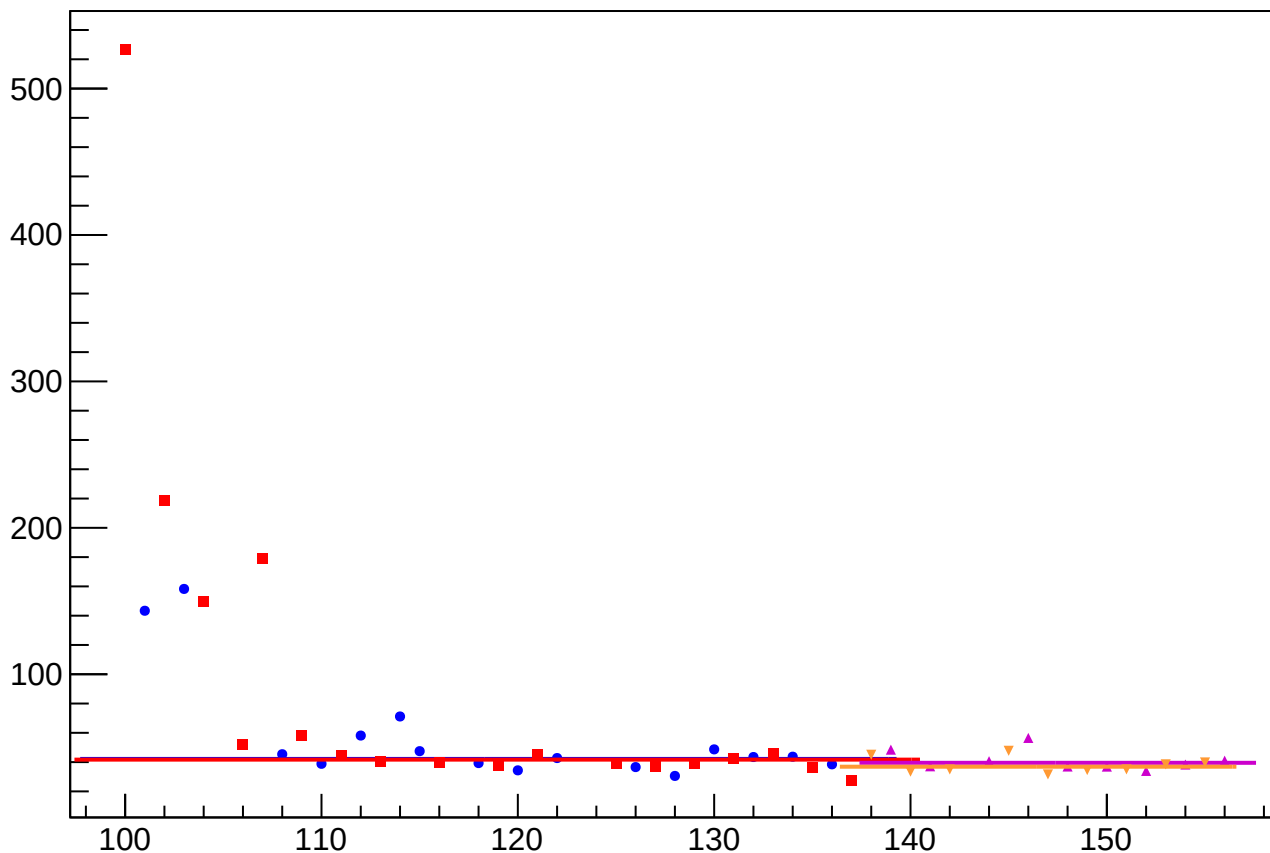
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.005 $\pm$ 0.012 χ^2 /NDF:27.9/24

Out: 0.006 $\pm$ 0.012 χ^2 /NDF:26.3/26

All: 0.005 $\pm$ 0.008 χ^2 /NDF: 54.2/51

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: 36.858+/-0.011 χ^2/NDF :186643.5/8

Right Out: 41.692+/-0.013 χ^2/NDF : 1441204.7/17

Left In: 39.515+/-0.011 χ^2/NDF :250414.0/8

Left: 38.192+/-0.008 χ^2/NDF : 466898.1/17

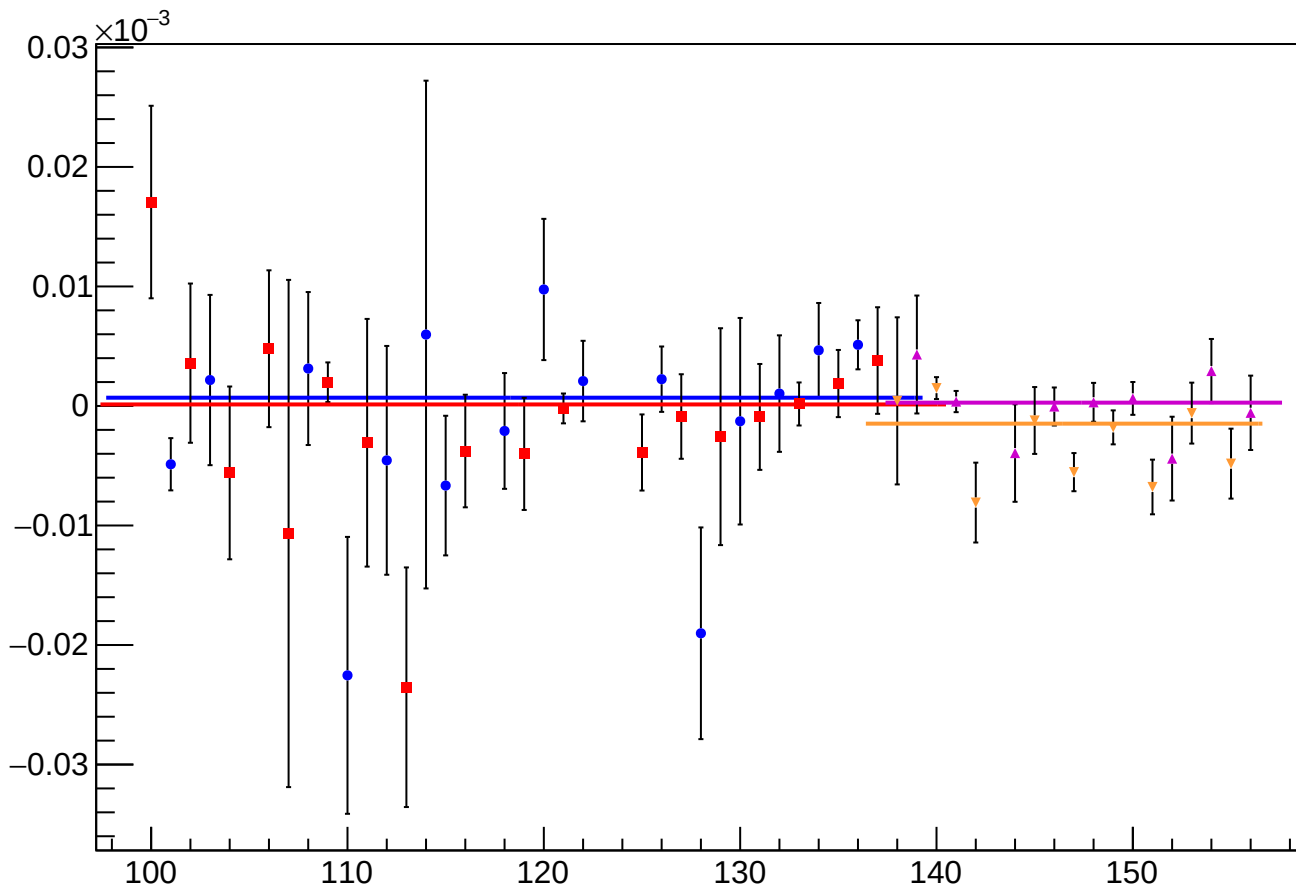
Right: 41.933+/-0.009 χ^2/NDF : 2896244.2/33

In: 40.612+/-0.008 χ^2/NDF :1729493.9/24

Out: 38.828+/-0.008 χ^2/NDF :1707995.9/26

All: 39.729+/-0.006 χ^2/NDF : 3460325.4/51

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 26.5/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 27.8/8

Right Out: 0.000 ± 0.000 χ^2/NDF : 17.4/17

Left In: 0.000 ± 0.000 χ^2/NDF : 4.7/8

Left: -0.000 ± 0.000 χ^2/NDF : 36.9/17

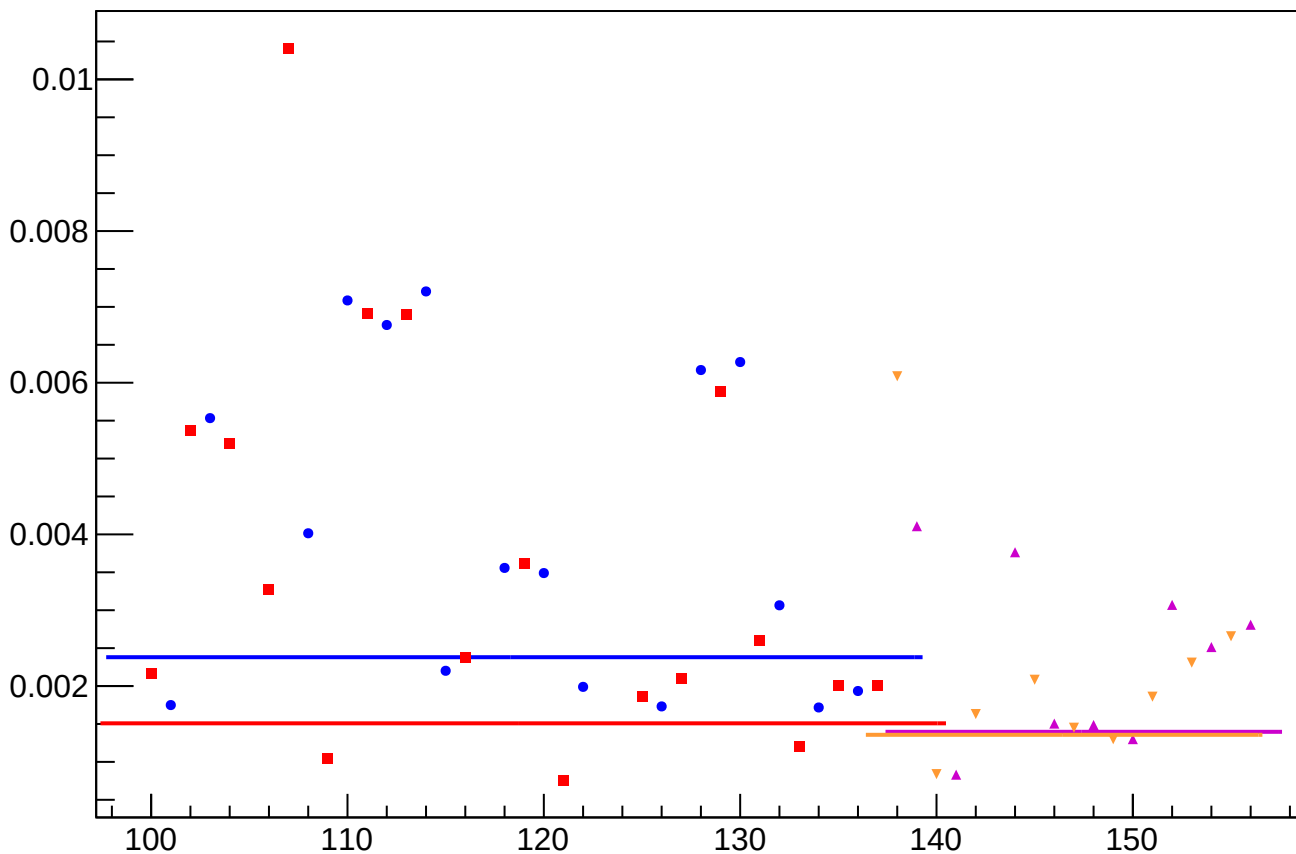
Right: 0.000 ± 0.000 χ^2/NDF : 44.1/33

In: 0.000 ± 0.000 χ^2/NDF : 31.3/24

Out: -0.000 ± 0.000 χ^2/NDF : 48.2/26

All: -0.000 ± 0.000 χ^2/NDF : 82.6/51

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 :2481470.7/8

Right Out: 0.002+/-0.000 χ^2/NDF : 5001667.0/17

Left In: 0.001+/-0.000 χ^2/NDF :3330129.0/8

Left: 0.001+/-0.000 χ^2/NDF : 5816078.4/17

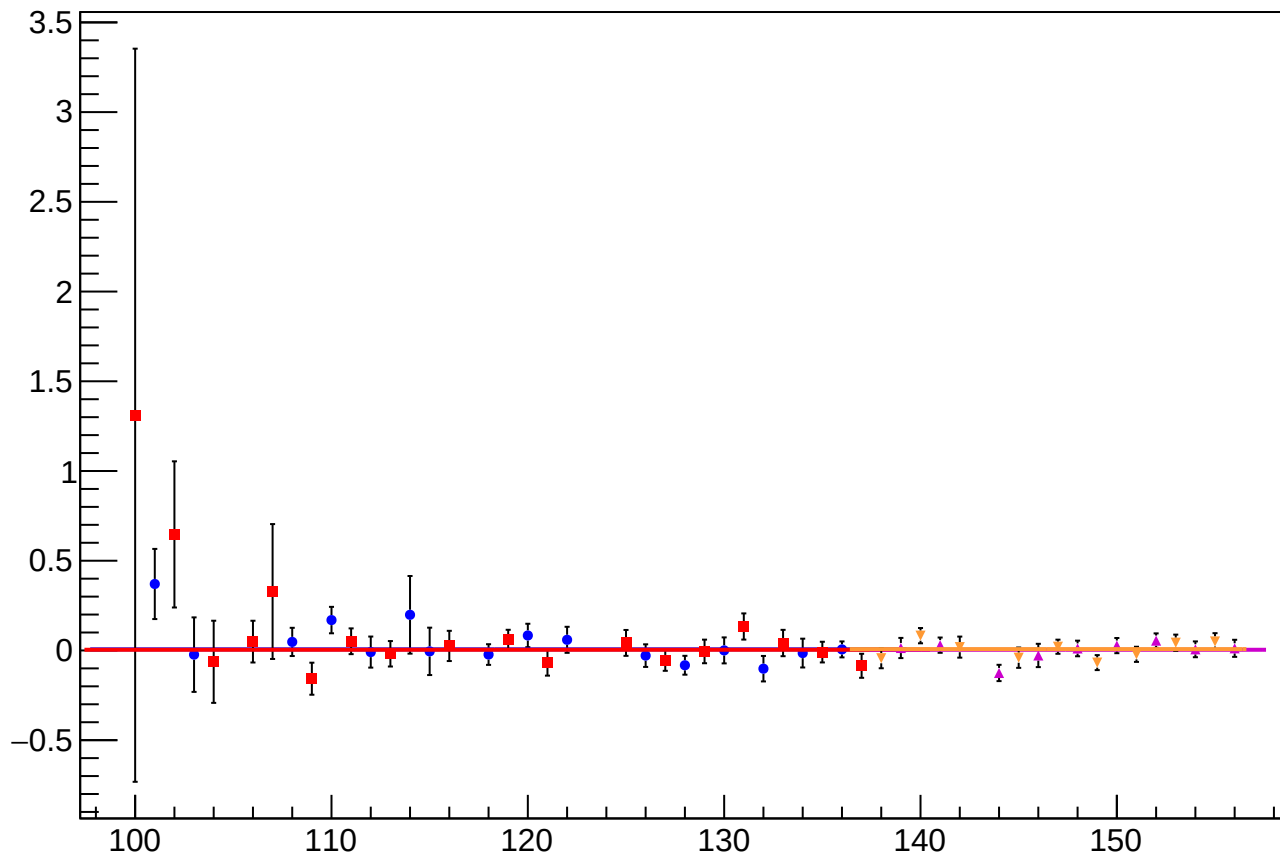
Right: 0.002+/-0.000 χ^2/NDF : 8812145.3/33

In: 0.002+/-0.000 χ^2/NDF :7577112.1/24

Out: 0.001+/-0.000 χ^2/NDF :7535209.2/26

All: 0.002+/-0.000 χ^2/NDF : 15315237.1/51

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: 0.007 $\pm$ 0.015 χ^2 /NDF:10.0/8

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.004 $\pm$ 0.015 χ^2 /NDF:10.7/8

Left: 0.006 $\pm$ 0.011 χ^2 /NDF: 20.7/17

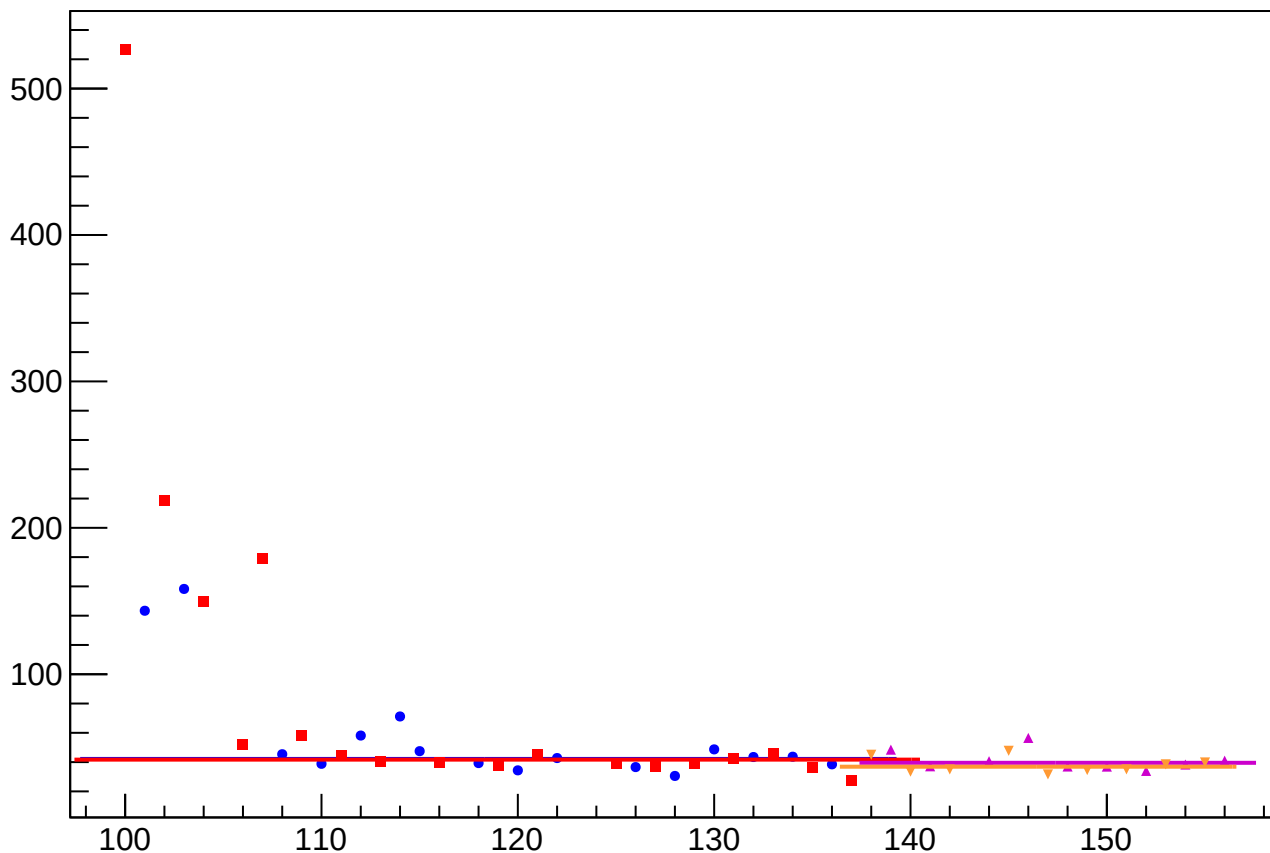
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.005 $\pm$ 0.012 χ^2 /NDF:27.9/24

Out: 0.006 $\pm$ 0.012 χ^2 /NDF:26.3/26

All: 0.005 $\pm$ 0.008 χ^2 /NDF: 54.2/51

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: 36.858+/-0.011 χ^2/NDF :186615.5/8

Right Out: 41.692+/-0.013 χ^2/NDF : 1441185.4/17

Left In: 39.515+/-0.011 χ^2/NDF :250446.3/8

Left: 38.192+/-0.008 χ^2/NDF : 466894.4/17

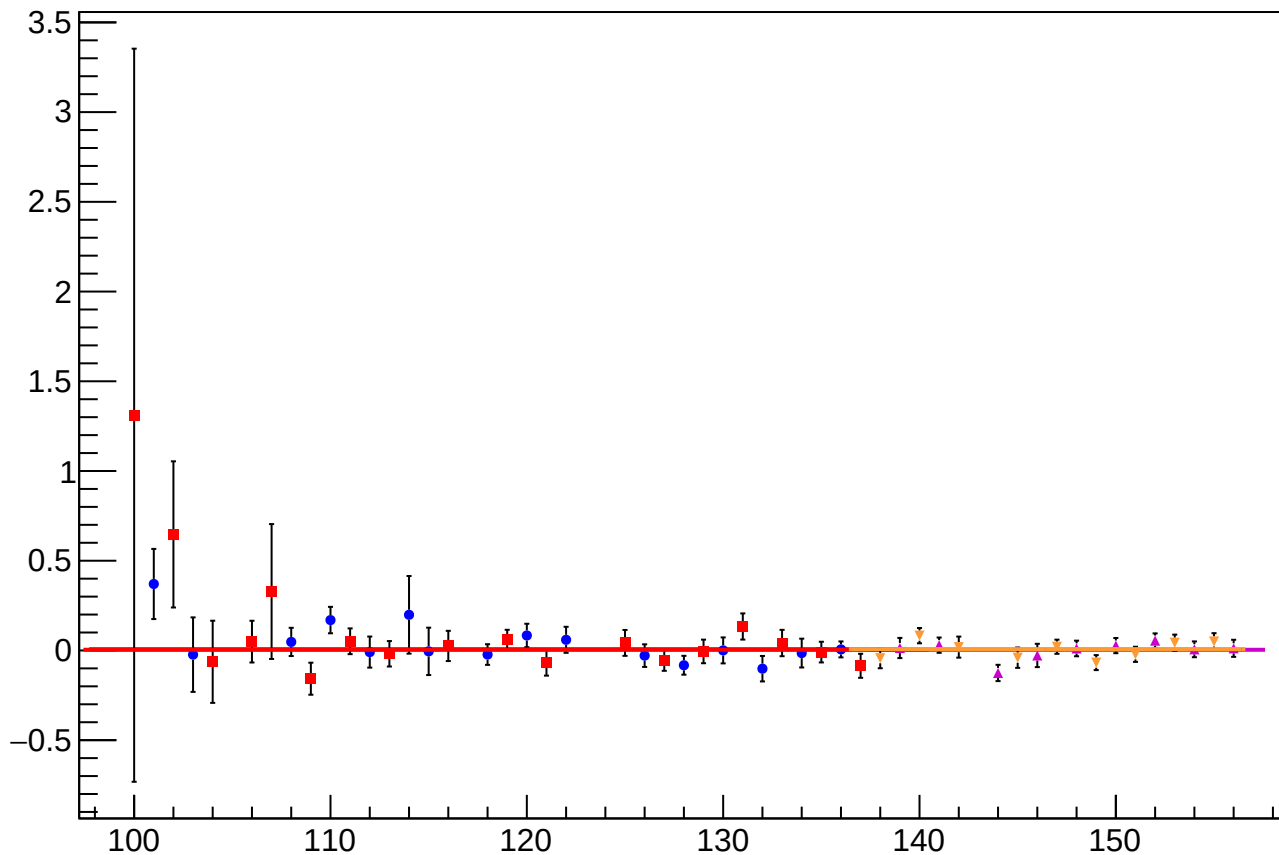
Right: 41.932+/-0.009 χ^2/NDF : 2896430.8/33

In: 40.611+/-0.008 χ^2/NDF :1729698.0/24

Out: 38.828+/-0.008 χ^2/NDF :1707955.6/26

All: 39.728+/-0.006 χ^2/NDF : 3460454.7/51

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: 0.007 $\pm$ 0.015 χ^2 /NDF:10.0/8

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.004 $\pm$ 0.015 χ^2 /NDF:10.7/8

Left: 0.006 $\pm$ 0.011 χ^2 /NDF: 20.7/17

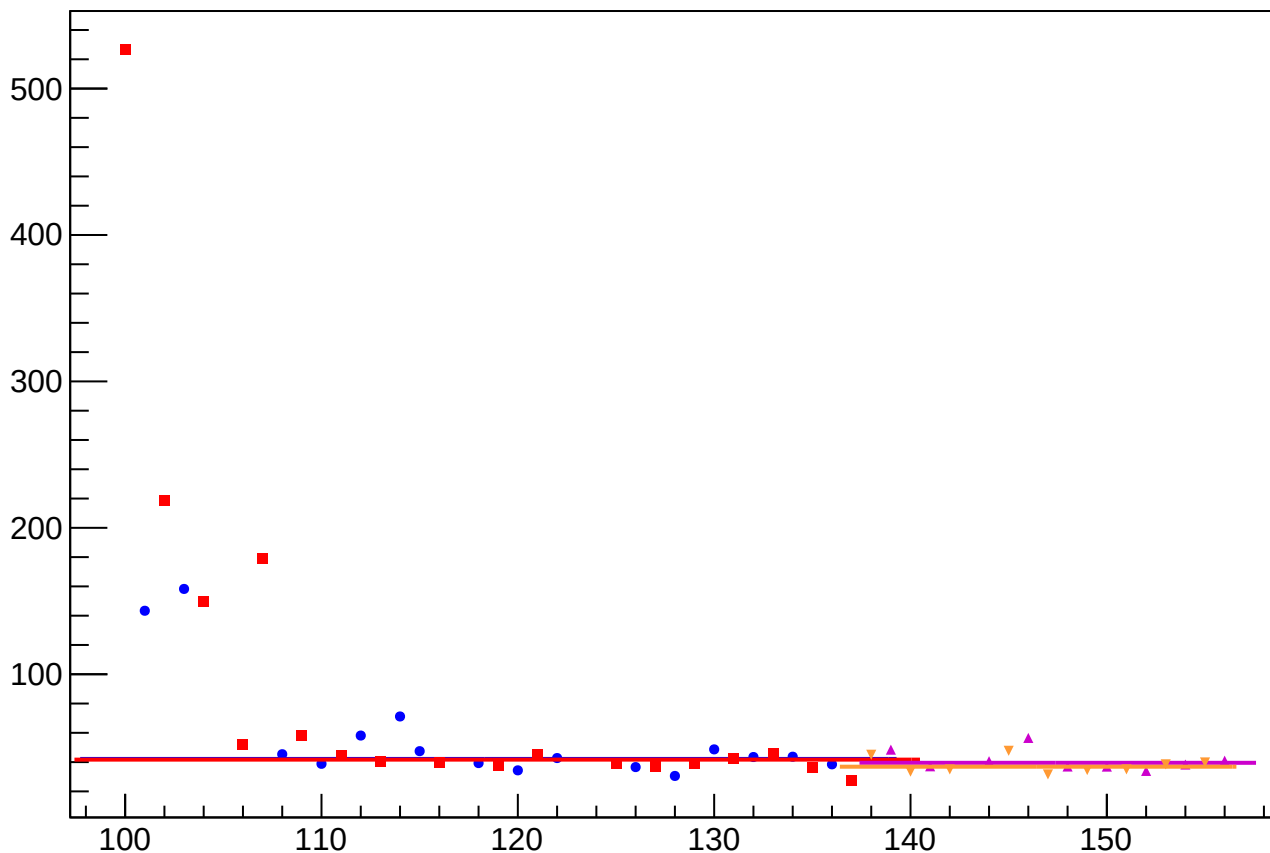
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.005 $\pm$ 0.012 χ^2 /NDF:27.9/24

Out: 0.006 $\pm$ 0.012 χ^2 /NDF:26.3/26

All: 0.005 $\pm$ 0.008 χ^2 /NDF: 54.2/51

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: 36.858+/-0.011 χ^2/NDF :186615.5/8

Right Out: 41.692+/-0.013 χ^2/NDF : 1441185.4/17

Left In: 39.515+/-0.011 χ^2/NDF :250446.3/8

Left: 38.192+/-0.008 χ^2/NDF : 466894.4/17

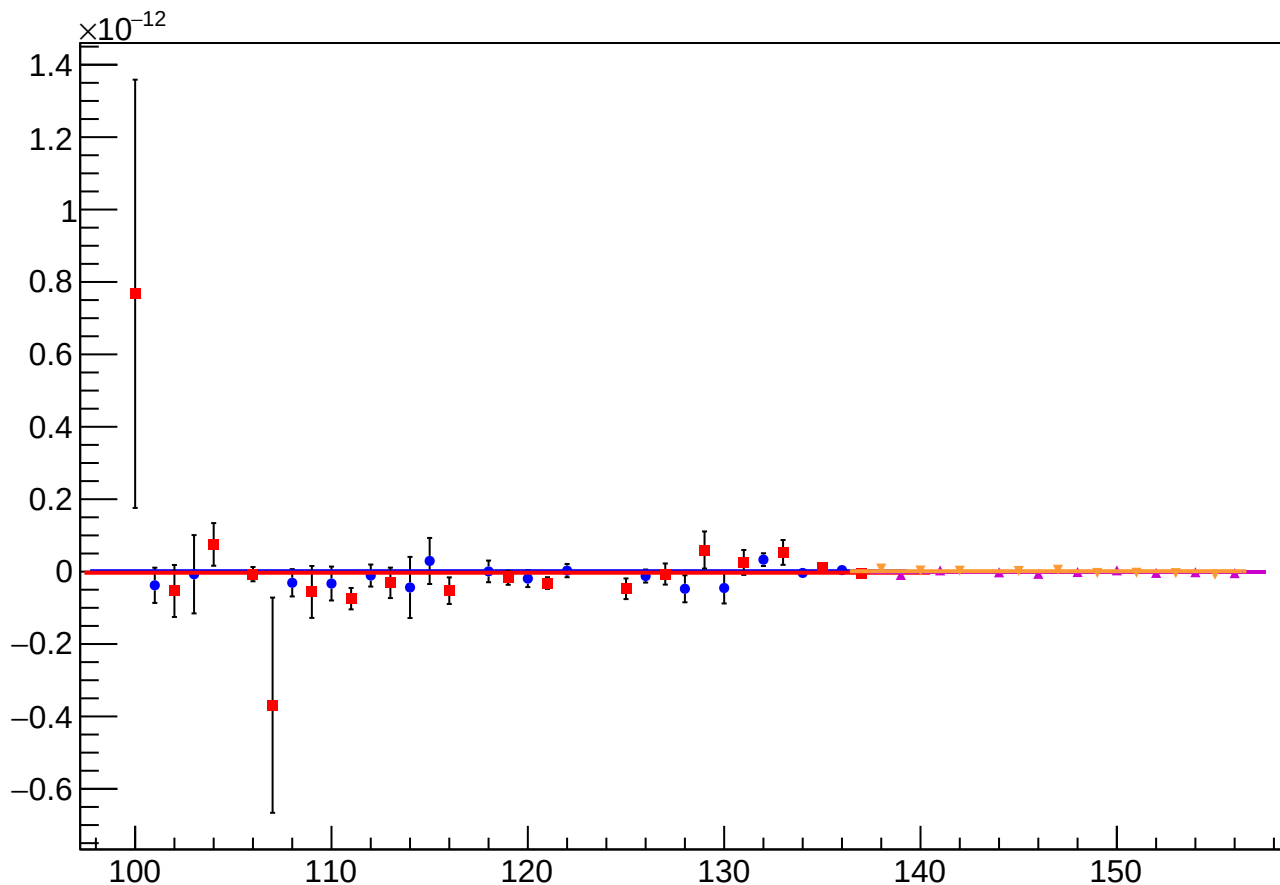
Right: 41.932+/-0.009 χ^2/NDF : 2896430.8/33

In: 40.611+/-0.008 χ^2/NDF :1729698.0/24

Out: 38.828+/-0.008 χ^2/NDF :1707955.6/26

All: 39.728+/-0.006 χ^2/NDF : 3460454.7/51

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 : 7.2/8

Right Out: -0.000+/-0.000 χ^2/NDF : 28.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 5.5/8

Left: 0.000+/-0.000 χ^2/NDF : 13.6/17

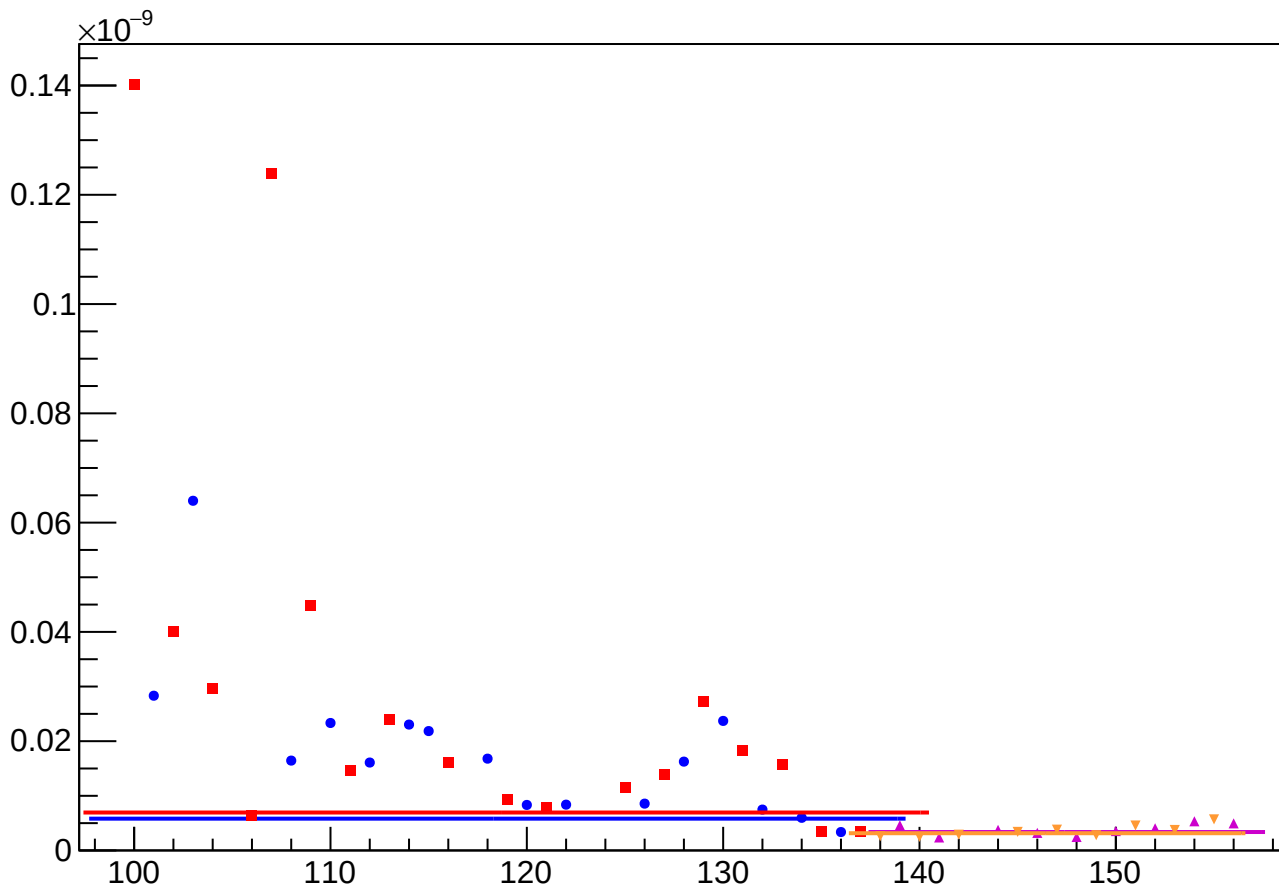
Right: -0.000+/-0.000 χ^2/NDF : 39.8/33

In: -0.000+/-0.000 χ^2/NDF : 16.3/24

Out: 0.000+/-0.000 χ^2/NDF : 36.7/26

All: -0.000+/-0.000 χ^2/NDF : 53.5/51

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 : 454501.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 3789910.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 623378.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1095442.9/17

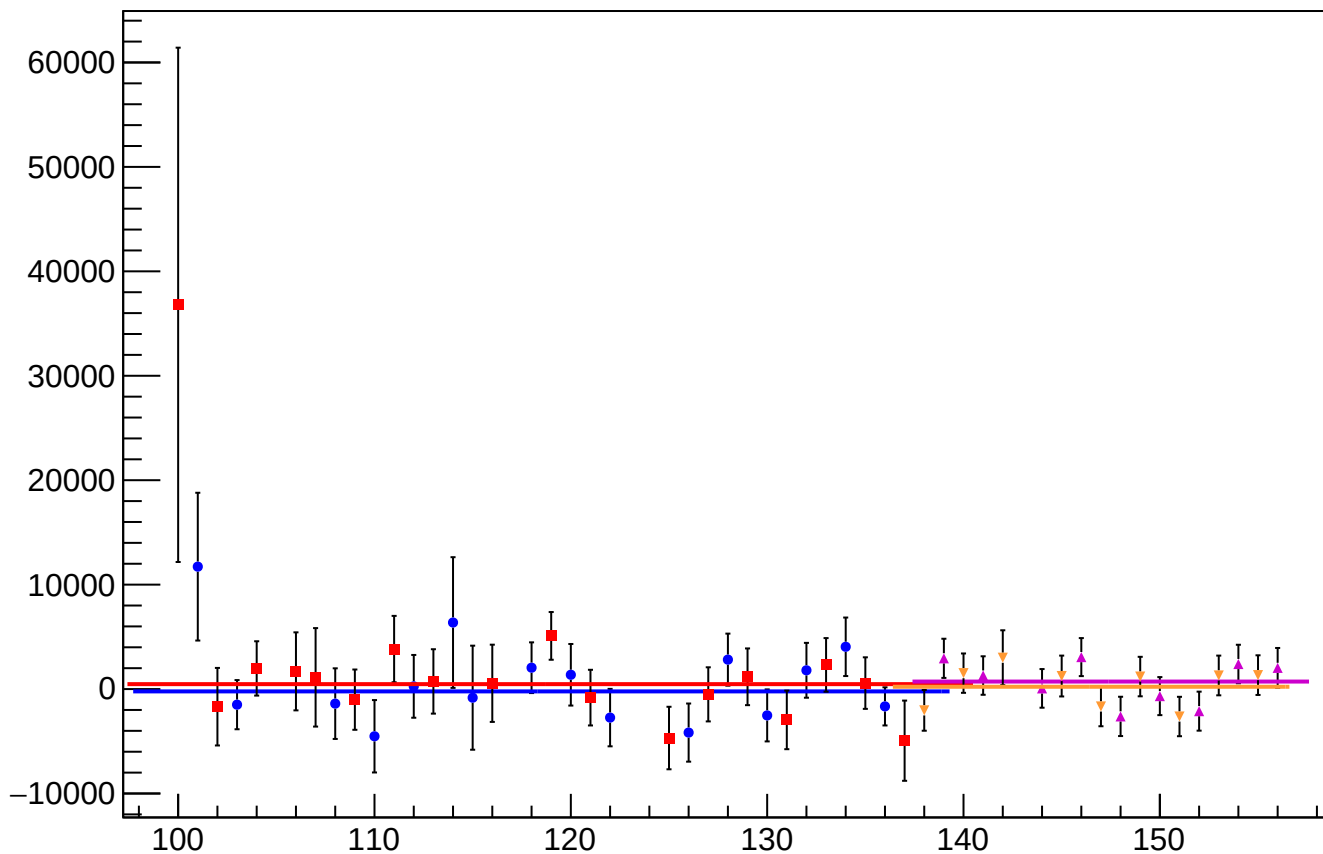
Right: 0.000+/-0.000 χ^2/NDF : 7152698.2/33

In: 0.000+/-0.000 χ^2/NDF : 4579433.3/24

Out: 0.000+/-0.000 χ^2/NDF : 5384420.0/26

All: 0.000+/-0.000 χ^2/NDF : 9977958.4/51

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: 221.373+/-653.159 χ^2/NDF : 7.4/8

Right Out: 472.410+/-711.475 χ^2/NDF : 15.9/17

Left In: 719.386+/-618.571 χ^2/NDF : 10.6/8

Left: 483.914+/-449.126 χ^2/NDF : 18.4/17

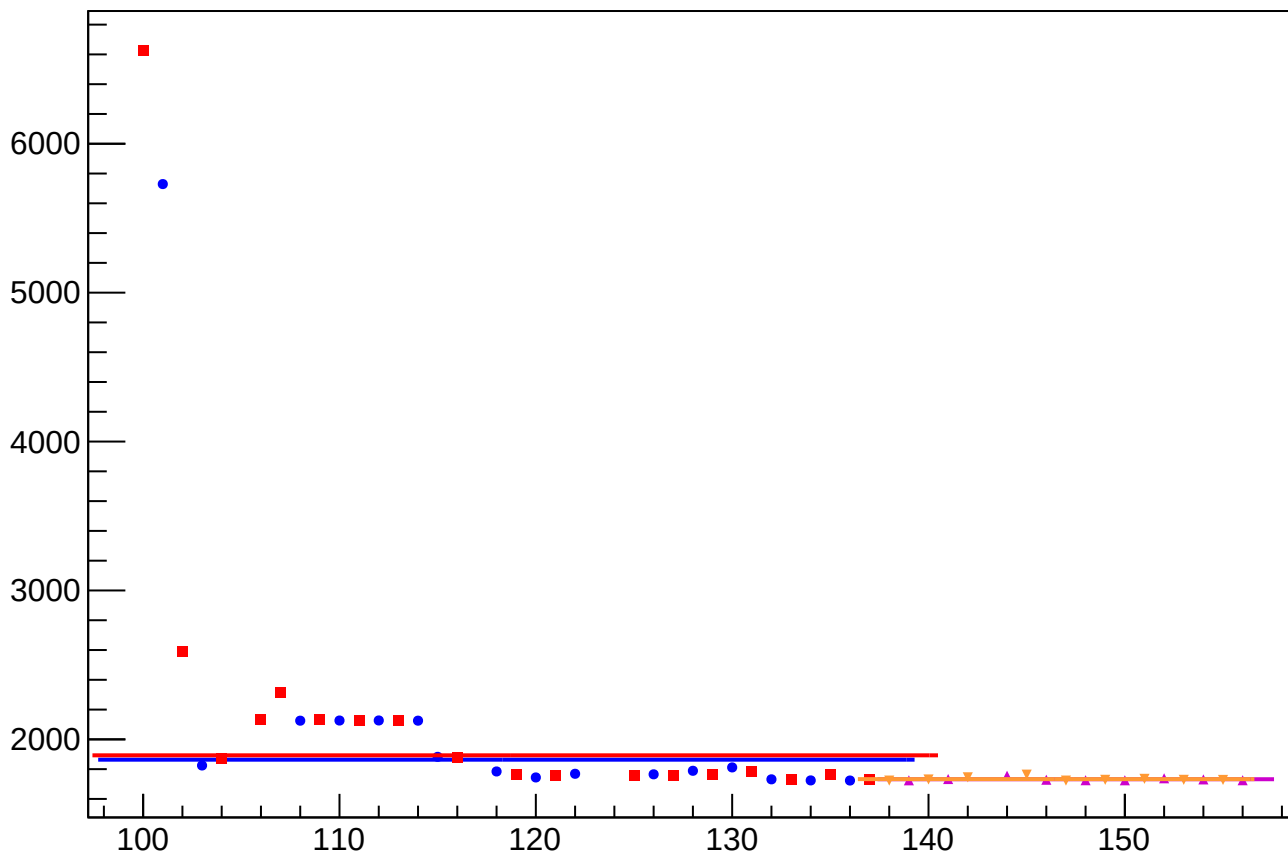
Right: 123.577+/-502.265 χ^2/NDF : 32.2/33

In: 312.195+/-466.152 χ^2/NDF : 27.5/24

Out: 336.183+/-481.151 χ^2/NDF : 23.4/26

All: 323.810+/-334.796 χ^2/NDF : 50.8/51

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: 1732.967+/-0.462 χ^2/NDF : 664.9/8

Right Out: 1892.866+/-0.503 χ^2/NDF : 251512.9/17

Left In: 1732.282+/-0.437 χ^2/NDF : 464.9/8

Left: 1732.606+/-0.318 χ^2/NDF : 1131.1/17

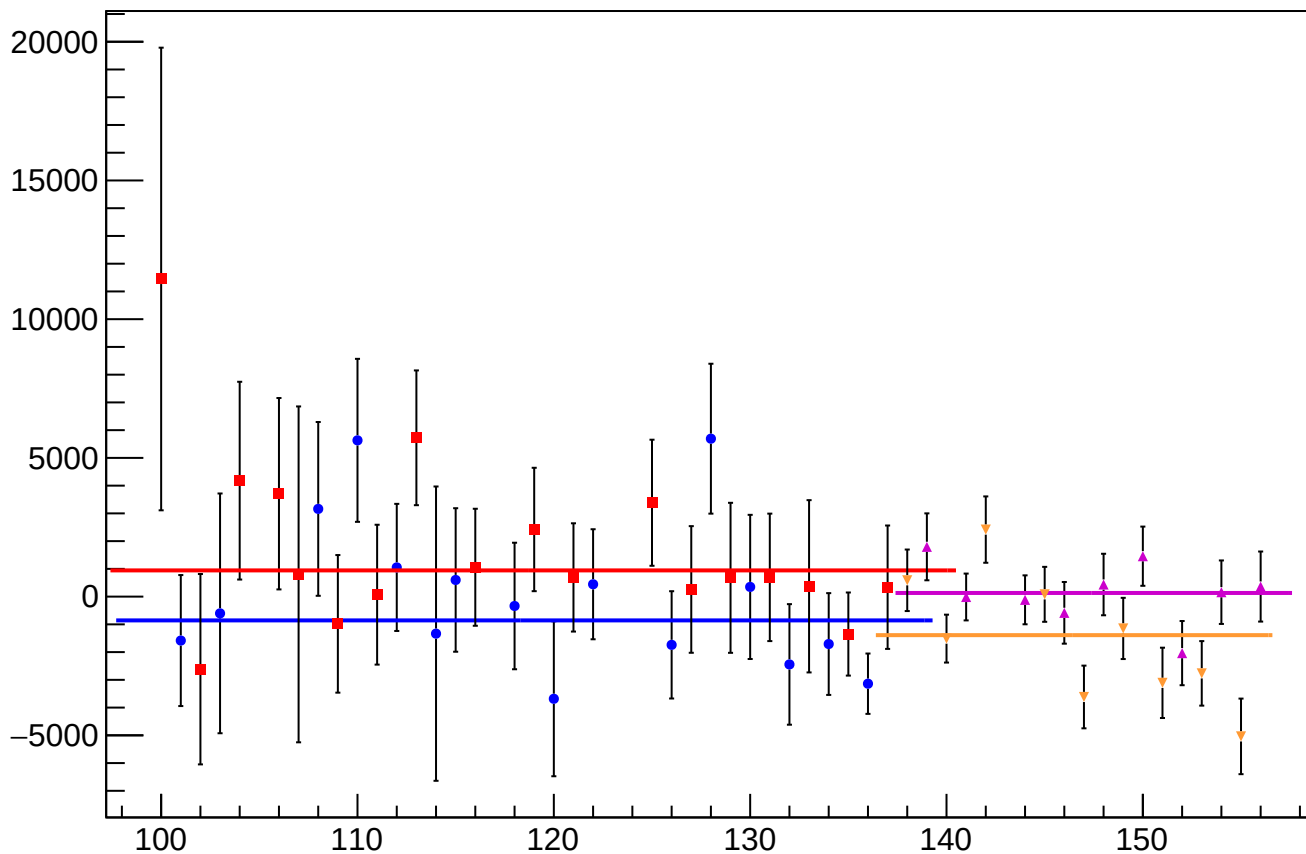
Right: 1878.175+/-0.355 χ^2/NDF : 927878.2/33

In: 1789.015+/-0.330 χ^2/NDF : 714066.3/24

Out: 1806.096+/-0.340 χ^2/NDF : 306996.1/26

All: 1797.285+/-0.237 χ^2/NDF : 1022362.5/51

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -857.294 $\pm$ 549.791 χ^2 /NDF: 20.6/15

Left Out: -1389.009 $\pm$ 368.112 χ^2 /NDF:29.9/8

Right Out: 944.718 $\pm$ 583.967 χ^2 /NDF: 12.9/17

Left In: 131.594 $\pm$ 353.163 χ^2 /NDF:7.6/8

Left: -597.205 $\pm$ 254.845 χ^2 /NDF: 46.4/17

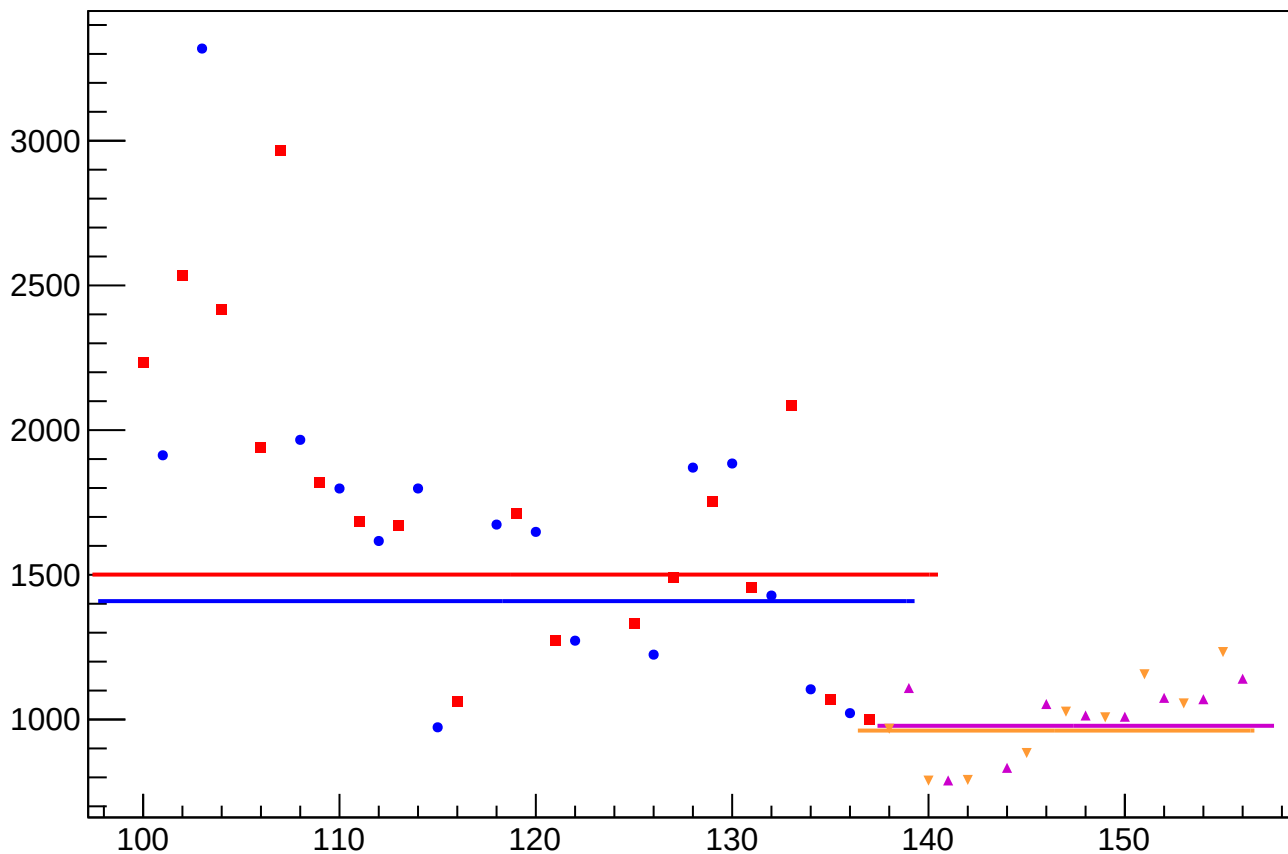
Right: -10.558 $\pm$ 400.298 χ^2 /NDF: 38.6/33

In: -157.258 $\pm$ 297.141 χ^2 /NDF:30.5/24

Out: -725.380 $\pm$ 311.406 χ^2 /NDF:54.2/26

All: -428.009 $\pm$ 214.976 χ^2 /NDF: 86.5/51

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1409.096 $\pm$ 0.389 χ^2 /NDF: 1167706.6/15

Left Out: 961.764 $\pm$ 0.260 χ^2 /NDF: 282889.5/8

Right Out: 1500.801 $\pm$ 0.413 χ^2 /NDF: 1030768.2/17

Left In: 978.265 $\pm$ 0.250 χ^2 /NDF: 250850.0/8

Left: 970.357 $\pm$ 0.180 χ^2 /NDF: 535832.1/17

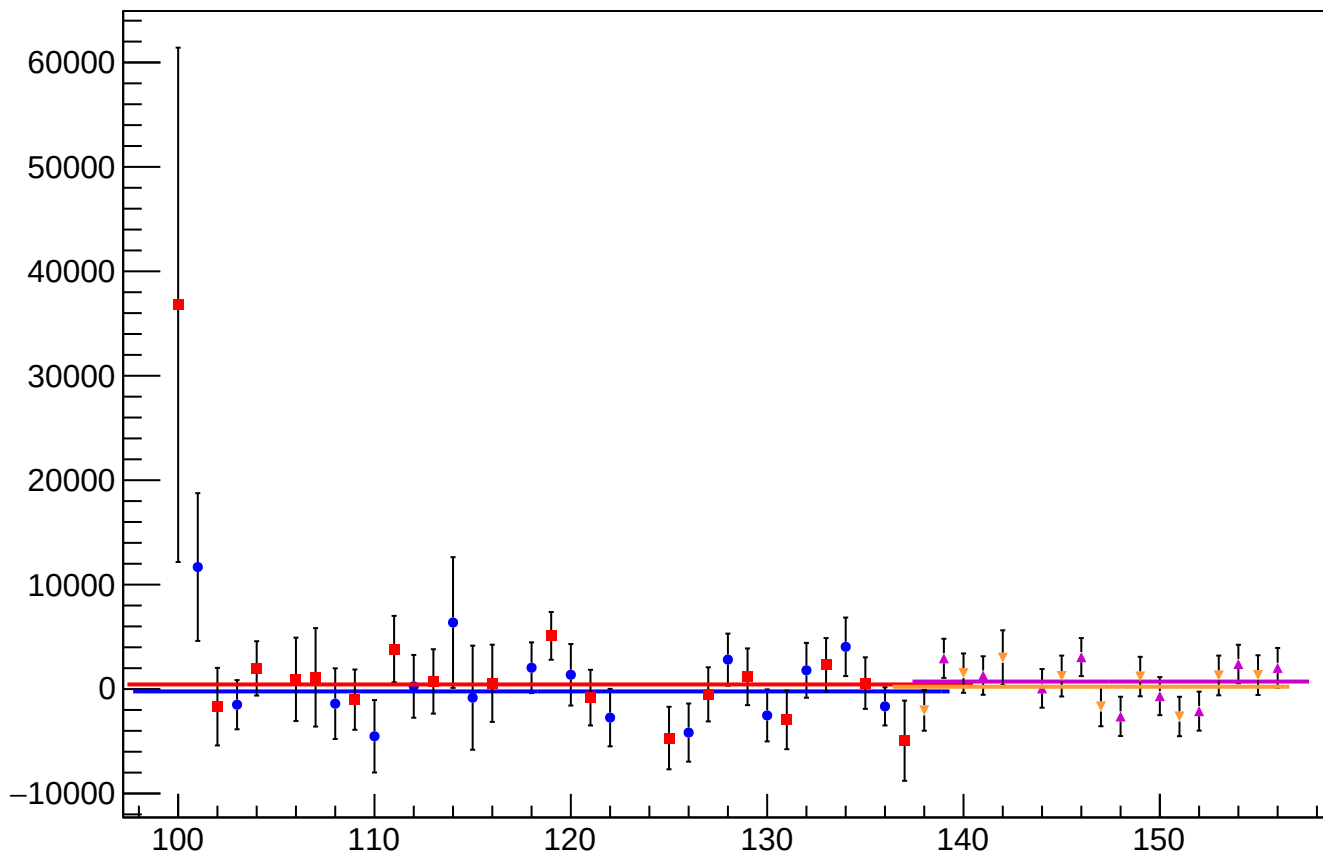
Right: 1452.187 $\pm$ 0.283 χ^2 /NDF: 2224621.1/33

In: 1104.110 $\pm$ 0.210 χ^2 /NDF: 2287958.8/24

Out: 1115.047 $\pm$ 0.220 χ^2 /NDF: 2533155.4/26

All: 1109.322 $\pm$ 0.152 χ^2 /NDF: 4822405.6/51

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: 221.466+/-653.159 χ^2/NDF : 7.4/8

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 719.380+/-618.571 χ^2/NDF : 10.6/8

Left: 483.955+/-449.126 χ^2/NDF : 18.4/17

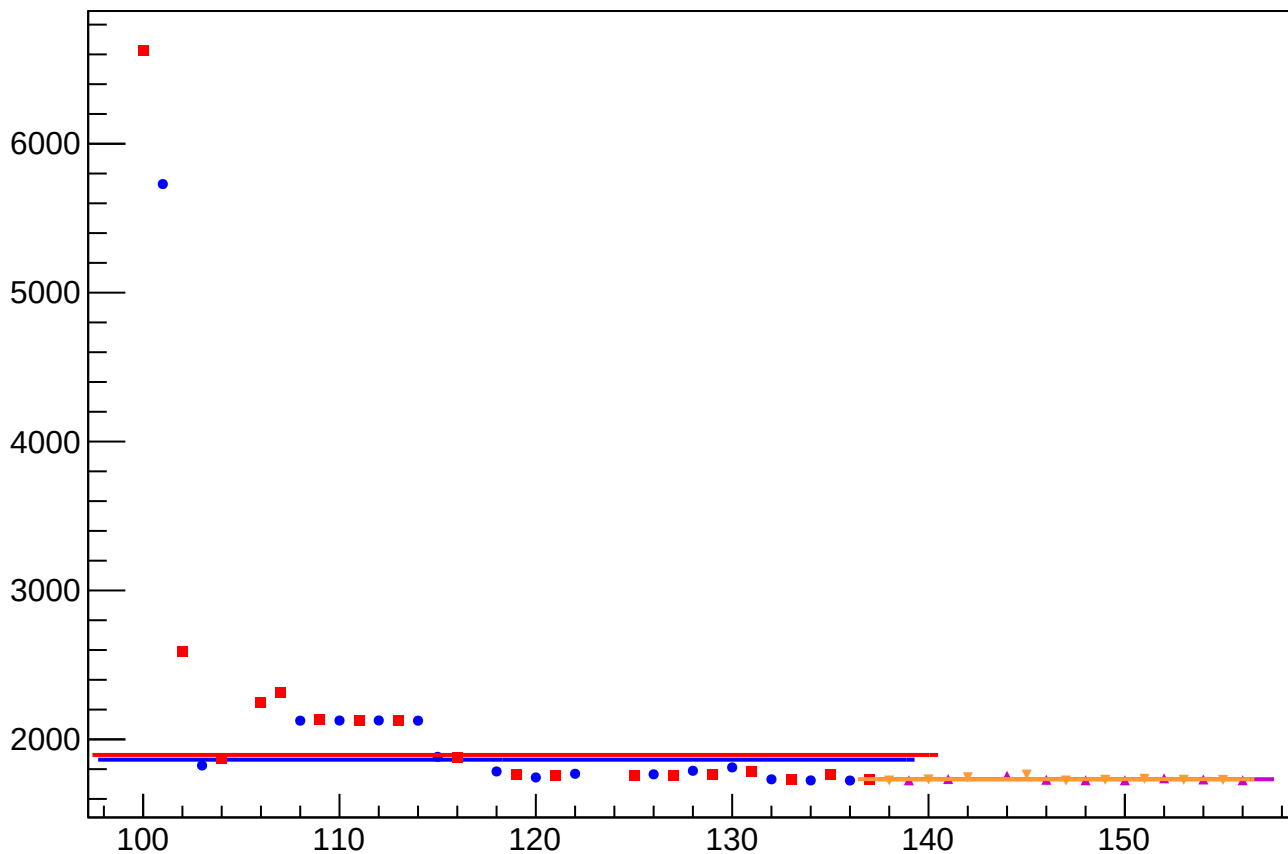
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 311.857+/-466.152 χ^2/NDF : 27.4/24

Out: 322.542+/-481.652 χ^2/NDF : 23.2/26

All: 317.025+/-334.965 χ^2/NDF : 50.7/51

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: 1732.967 $\pm$ 0.462 χ^2 /NDF:664.9/8

Right Out: 1895.491 $\pm$ 0.504 χ^2 /NDF: 259171.7/17

Left In: 1732.282 $\pm$ 0.437 χ^2 /NDF:464.9/8

Left: 1732.606 $\pm$ 0.318 χ^2 /NDF: 1131.0/17

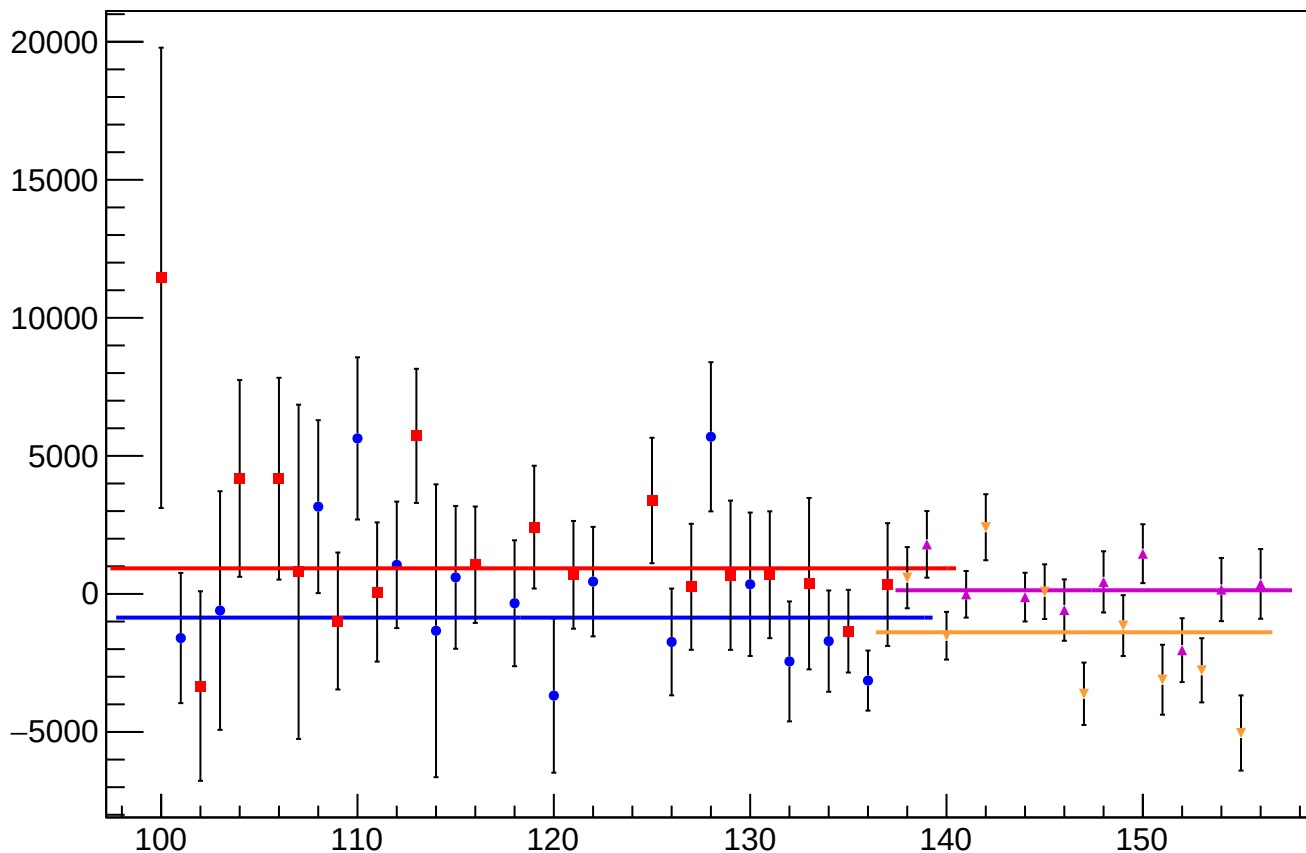
Right: 1879.447 $\pm$ 0.356 χ^2 /NDF: 935850.8/33

In: 1789.015 $\pm$ 0.330 χ^2 /NDF:714066.2/24

Out: 1807.113 $\pm$ 0.341 χ^2 /NDF:316330.0/26

All: 1797.768 $\pm$ 0.237 χ^2 /NDF: 1031854.1/51

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: -1388.981 $\pm$ 368.113 χ^2 /NDF:29.9/8

Right Out: 927.191 $\pm$ 584.886 χ^2 /NDF: 13.5/17

Left In: 131.636 $\pm$ 353.161 χ^2 /NDF:7.6/8

Left: -597.163 $\pm$ 254.844 χ^2 /NDF: 46.4/17

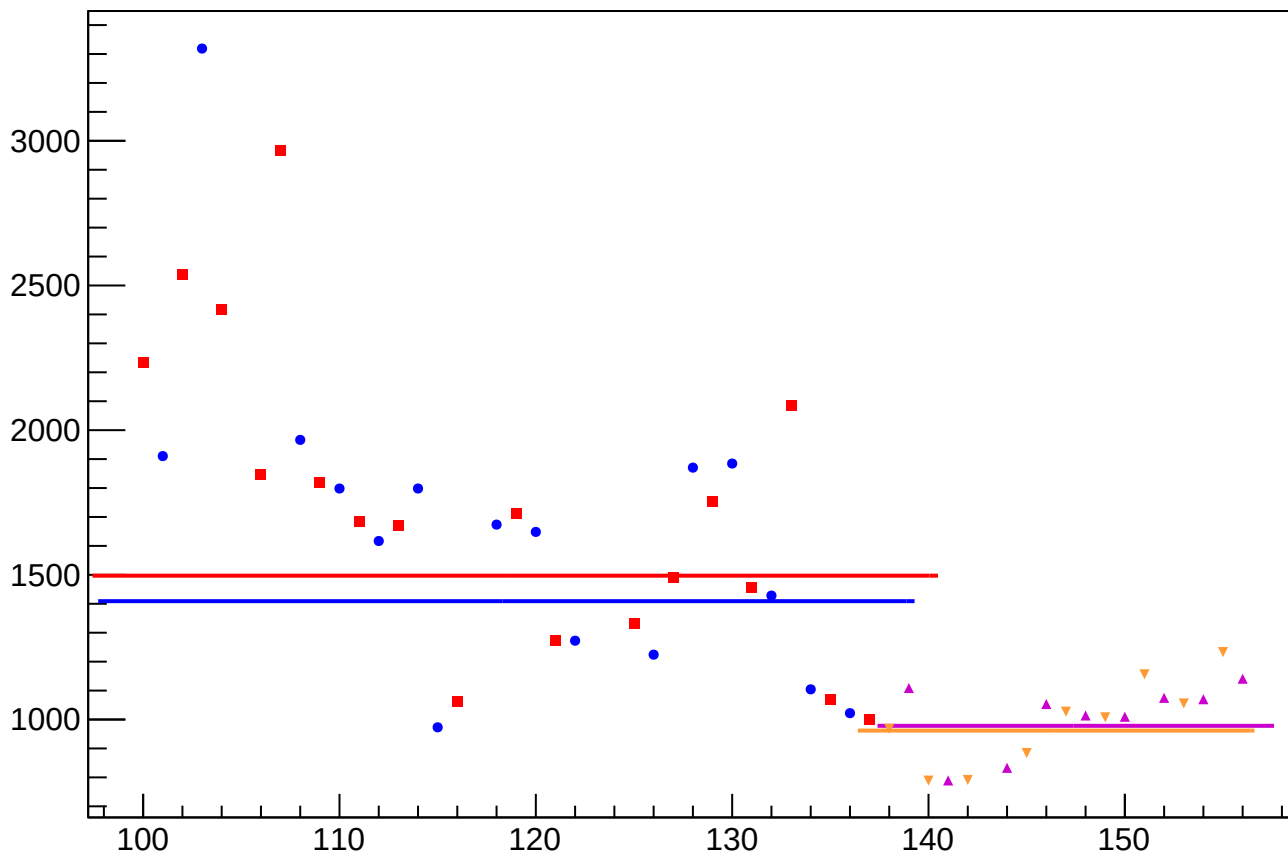
Right: -20.697 $\pm$ 400.577 χ^2 /NDF: 39.1/33

In: -157.497 $\pm$ 297.132 χ^2 /NDF:30.5/24

Out: -731.823 $\pm$ 311.545 χ^2 /NDF:54.6/26

All: -431.069 $\pm$ 215.019 χ^2 /NDF: 86.9/51

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018 $\pm$ 0.389 χ^2 /NDF: 1167065.5/15

Left Out: 961.767 $\pm$ 0.260 χ^2 /NDF: 282856.6/8

Right Out: 1497.149 $\pm$ 0.414 χ^2 /NDF: 1018123.6/17

Left In: 978.258 $\pm$ 0.250 χ^2 /NDF: 250868.0/8

Left: 970.354 $\pm$ 0.180 χ^2 /NDF: 535814.8/17

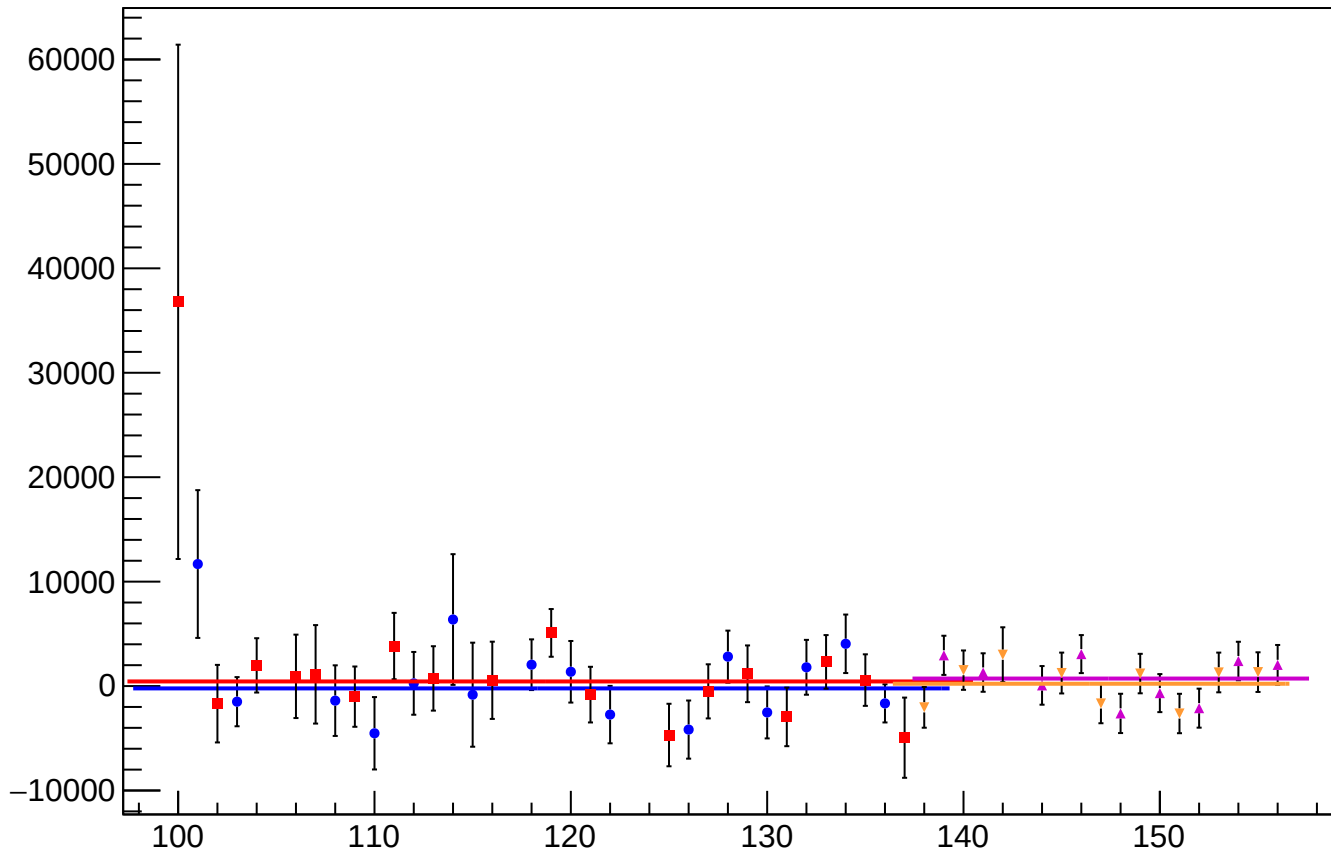
Right: 1450.357 $\pm$ 0.283 χ^2 /NDF: 2209298.3/33

In: 1104.095 $\pm$ 0.210 χ^2 /NDF: 2287149.3/24

Out: 1113.669 $\pm$ 0.220 χ^2 /NDF: 2501290.5/26

All: 1108.655 $\pm$ 0.152 χ^2 /NDF: 4789428.8/51

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: 221.466+/-653.159 χ^2/NDF : 7.4/8

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 719.380+/-618.571 χ^2/NDF : 10.6/8

Left: 483.955+/-449.126 χ^2/NDF : 18.4/17

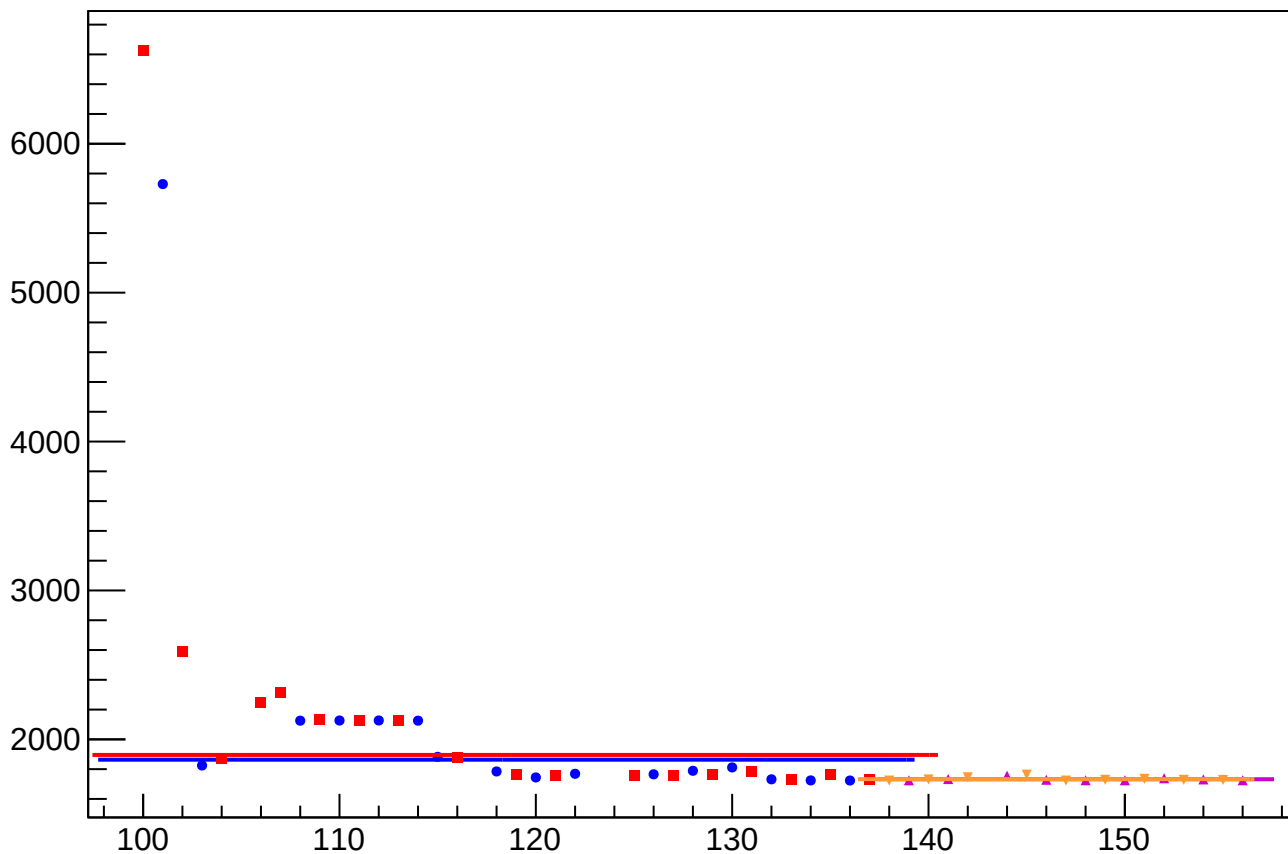
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 311.857+/-466.152 χ^2/NDF : 27.4/24

Out: 322.542+/-481.652 χ^2/NDF : 23.2/26

All: 317.025+/-334.965 χ^2/NDF : 50.7/51

eigen_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: 1732.967 $\pm$ 0.462 χ^2 /NDF:664.9/8

Right Out: 1895.491 $\pm$ 0.504 χ^2 /NDF: 259171.7/17

Left In: 1732.282 $\pm$ 0.437 χ^2 /NDF:464.9/8

Left: 1732.606 $\pm$ 0.318 χ^2 /NDF: 1131.0/17

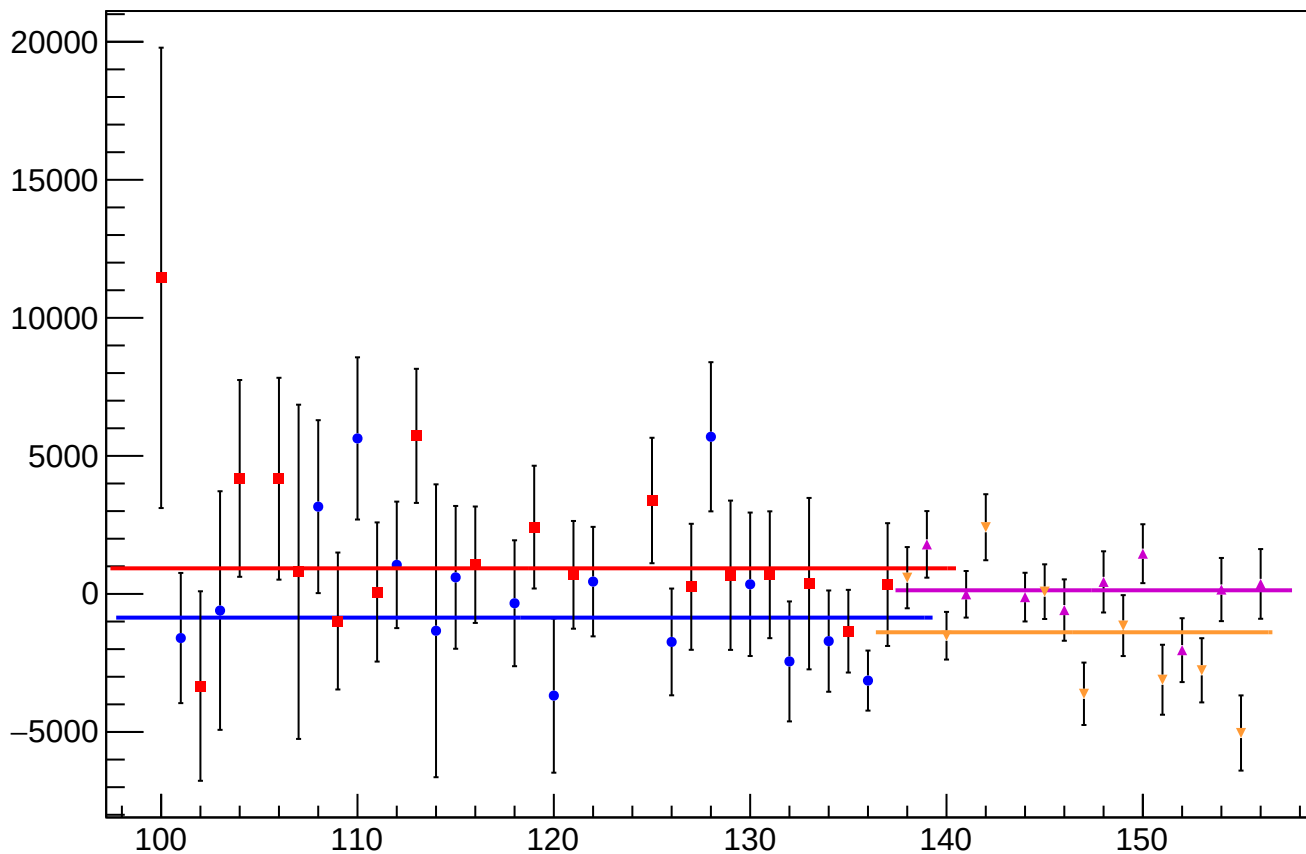
Right: 1879.447 $\pm$ 0.356 χ^2 /NDF: 935850.8/33

In: 1789.015 $\pm$ 0.330 χ^2 /NDF:714066.2/24

Out: 1807.113 $\pm$ 0.341 χ^2 /NDF:316330.0/26

All: 1797.768 $\pm$ 0.237 χ^2 /NDF: 1031854.1/51

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -858.115 $\pm$ 549.748 χ^2 /NDF: 20.6/15

Left Out: -1388.981 $\pm$ 368.113 χ^2 /NDF:29.9/8

Right Out: 927.191 $\pm$ 584.886 χ^2 /NDF: 13.5/17

Left In: 131.636 $\pm$ 353.161 χ^2 /NDF:7.6/8

Left: -597.163 $\pm$ 254.844 χ^2 /NDF: 46.4/17

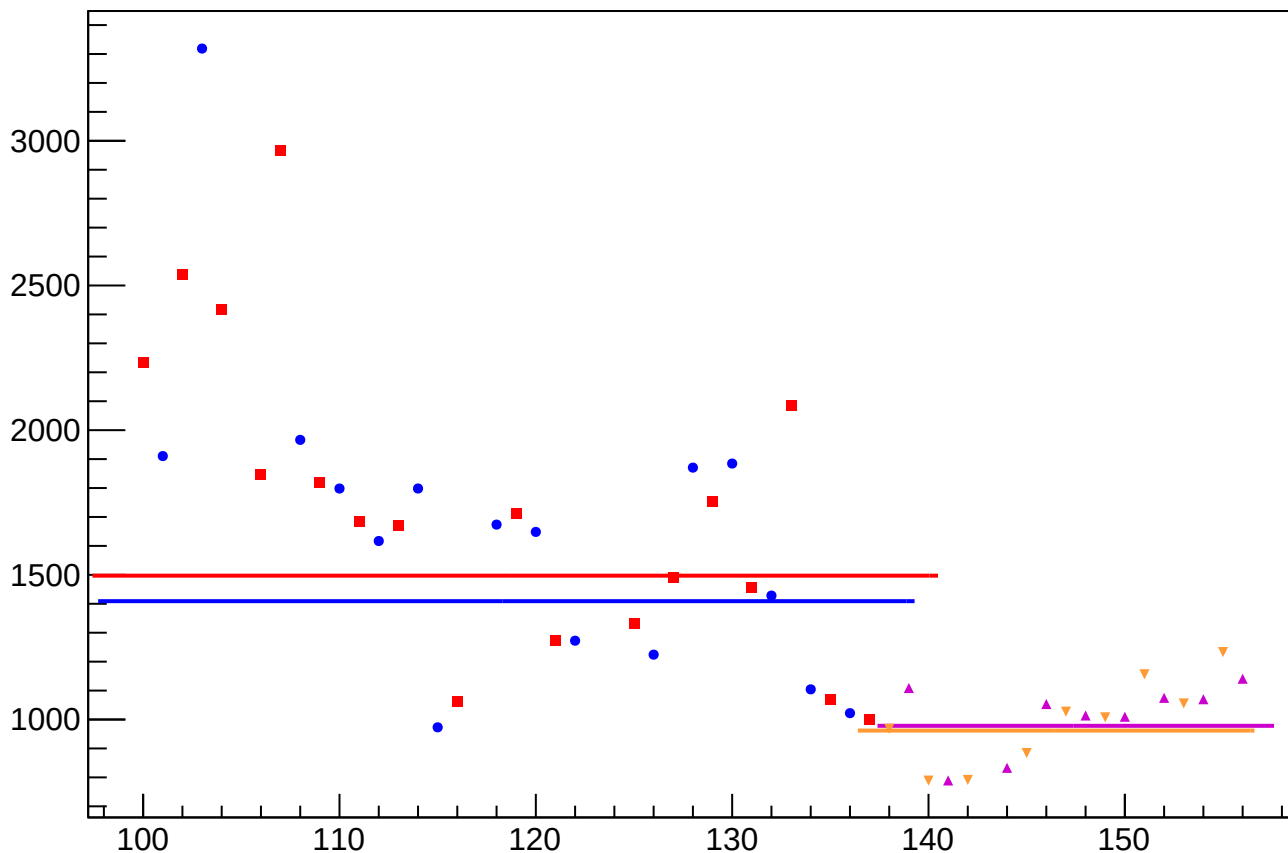
Right: -20.697 $\pm$ 400.577 χ^2 /NDF: 39.1/33

In: -157.497 $\pm$ 297.132 χ^2 /NDF:30.5/24

Out: -731.823 $\pm$ 311.545 χ^2 /NDF:54.6/26

All: -431.069 $\pm$ 215.019 χ^2 /NDF: 86.9/51

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018 $\pm$ 0.389 χ^2 /NDF: 1167065.5/15

Left Out: 961.767 $\pm$ 0.260 χ^2 /NDF: 282856.6/8

Right Out: 1497.149 $\pm$ 0.414 χ^2 /NDF: 1018123.6/17

Left In: 978.258 $\pm$ 0.250 χ^2 /NDF: 250868.0/8

Left: 970.354 $\pm$ 0.180 χ^2 /NDF: 535814.8/17

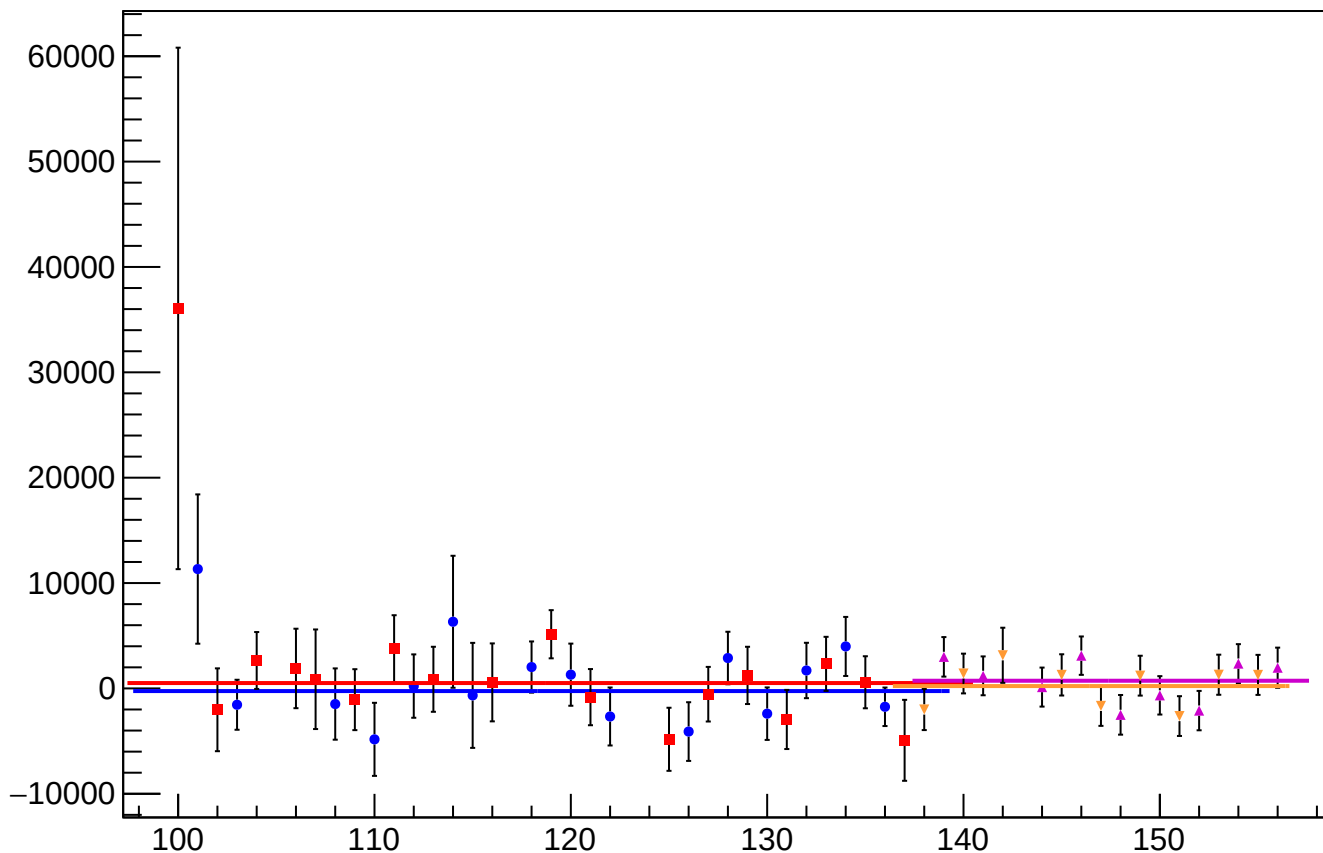
Right: 1450.357 $\pm$ 0.283 χ^2 /NDF: 2209298.3/33

In: 1104.095 $\pm$ 0.210 χ^2 /NDF: 2287149.3/24

Out: 1113.669 $\pm$ 0.220 χ^2 /NDF: 2501290.5/26

All: 1108.655 $\pm$ 0.152 χ^2 /NDF: 4789428.8/51

dit_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -252.024 ± 709.973 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 222.699 ± 653.326 $\chi^2/\text{NDF}: 7.4/8$

Right Out: 510.117 ± 715.442 $\chi^2/\text{NDF}: 16.4/17$

Left In: 728.733 ± 618.865 $\chi^2/\text{NDF}: 10.4/8$

Left: 489.414 ± 449.292 $\chi^2/\text{NDF}: 18.1/17$

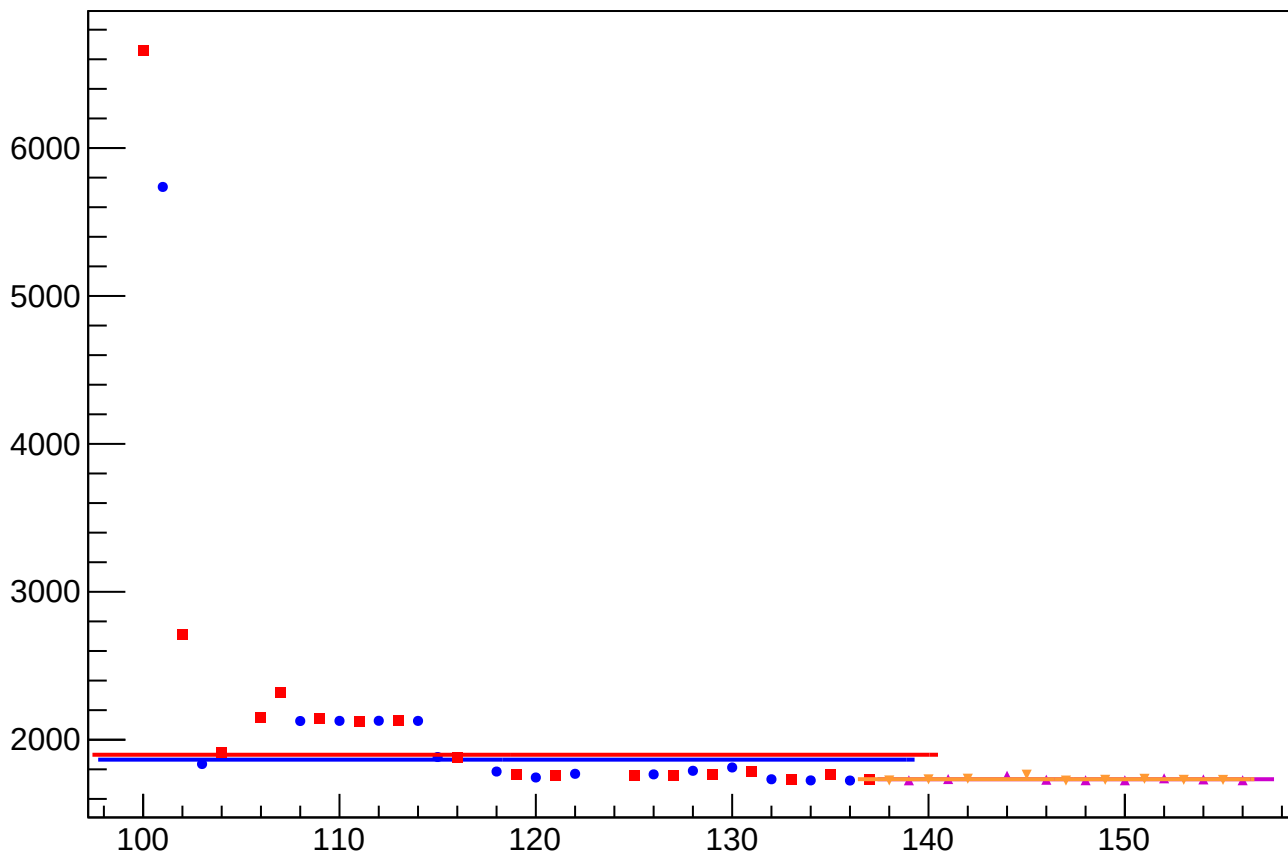
Right: 126.122 ± 503.949 $\chi^2/\text{NDF}: 32.6/33$

In: 305.283 ± 466.511 $\chi^2/\text{NDF}: 27.1/24$

Out: 353.392 ± 482.439 $\chi^2/\text{NDF}: 23.9/26$

All: 328.530 ± 335.363 $\chi^2/\text{NDF}: 51.0/51$

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: 1733.343+/-0.462 χ^2/NDF : 613.9/8

Right Out: 1898.603+/-0.506 χ^2/NDF : 269110.1/17

Left In: 1733.106+/-0.438 χ^2/NDF : 465.0/8

Left: 1733.218+/-0.318 χ^2/NDF : 1079.0/17

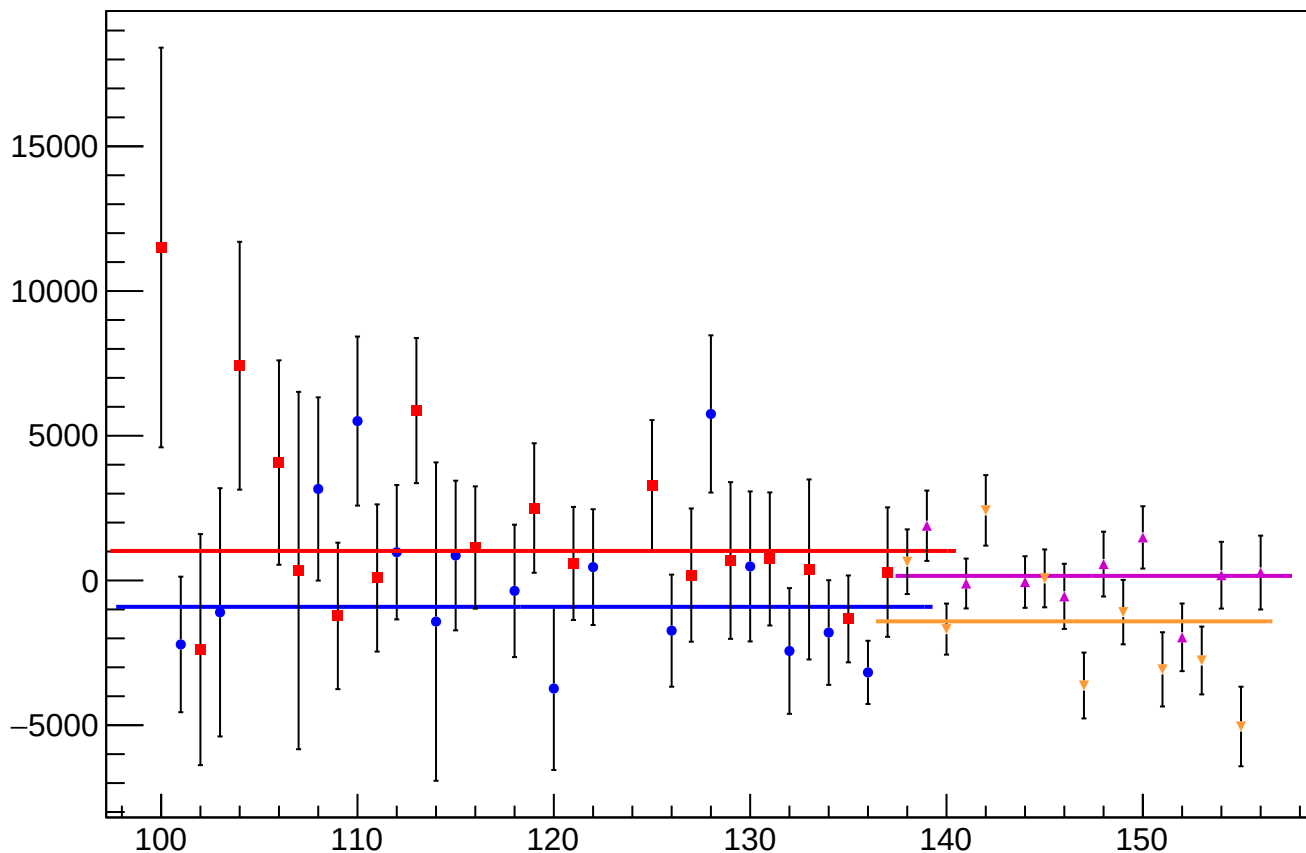
Right: 1881.894+/-0.356 χ^2/NDF : 946264.8/33

In: 1790.242+/-0.330 χ^2/NDF : 714938.5/24

Out: 1808.489+/-0.341 χ^2/NDF : 327913.3/26

All: 1799.059+/-0.237 χ^2/NDF : 1044330.3/51

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: -1412.087+/-372.518 χ^2/NDF : 29.5/8

Right Out: 1020.124+/-591.600 χ^2/NDF : 14.9/17

Left In: 158.290+/-357.372 χ^2/NDF : 7.5/8

Left: -594.325+/-257.888 χ^2/NDF : 46.3/17

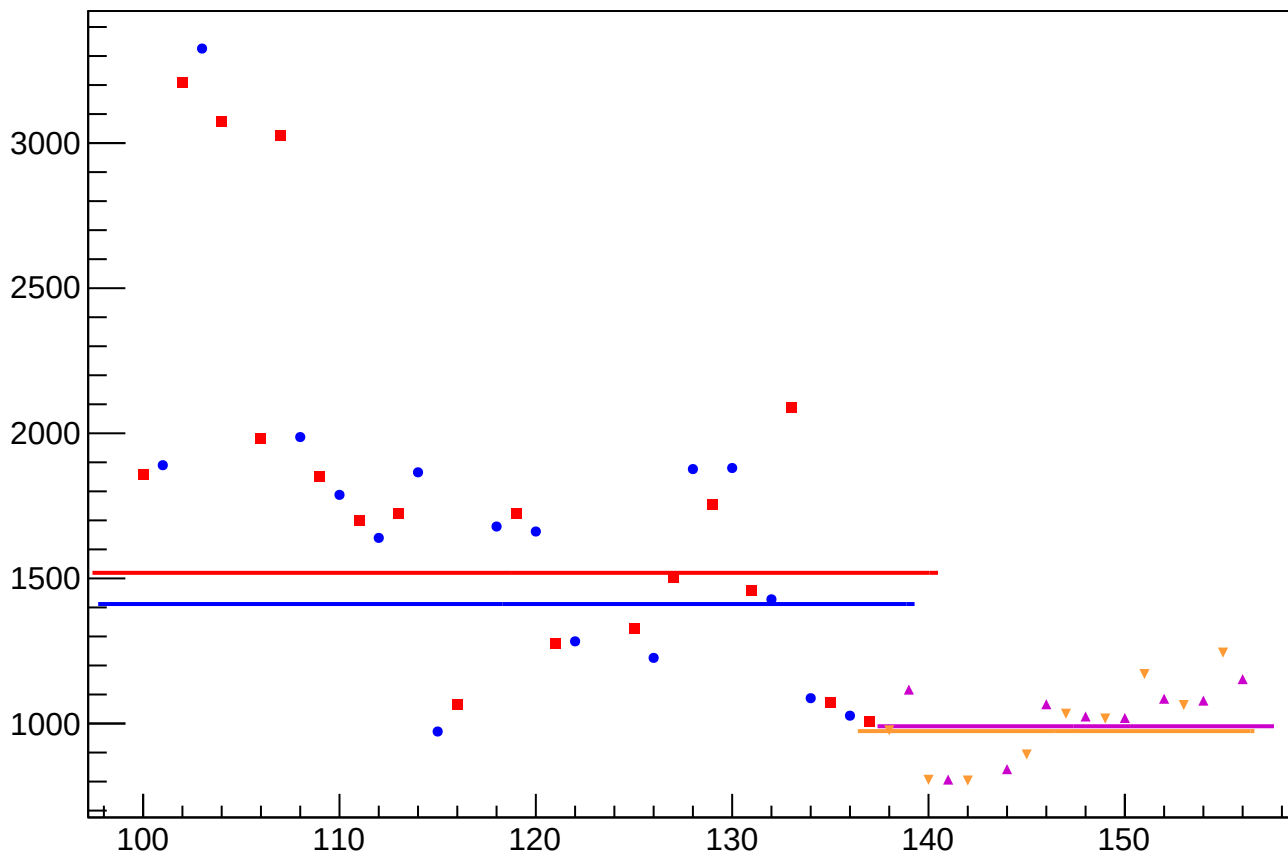
Right: -14.232+/-403.141 χ^2/NDF : 41.6/33

In: -158.451+/-299.803 χ^2/NDF : 31.2/24

Out: -721.530+/-315.230 χ^2/NDF : 56.5/26

All: -425.875+/-217.242 χ^2/NDF : 89.4/51

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1411.748 $\pm$ 0.389 χ^2/NDF : 1177745.4/15

Left Out: 973.910 $\pm$ 0.263 χ^2/NDF : 269273.3/8

Right Out: 1519.305 $\pm$ 0.418 χ^2/NDF : 1360145.6/17

Left In: 990.600 $\pm$ 0.253 χ^2/NDF : 237121.1/8

Left: 982.601 $\pm$ 0.182 χ^2/NDF : 508485.0/17

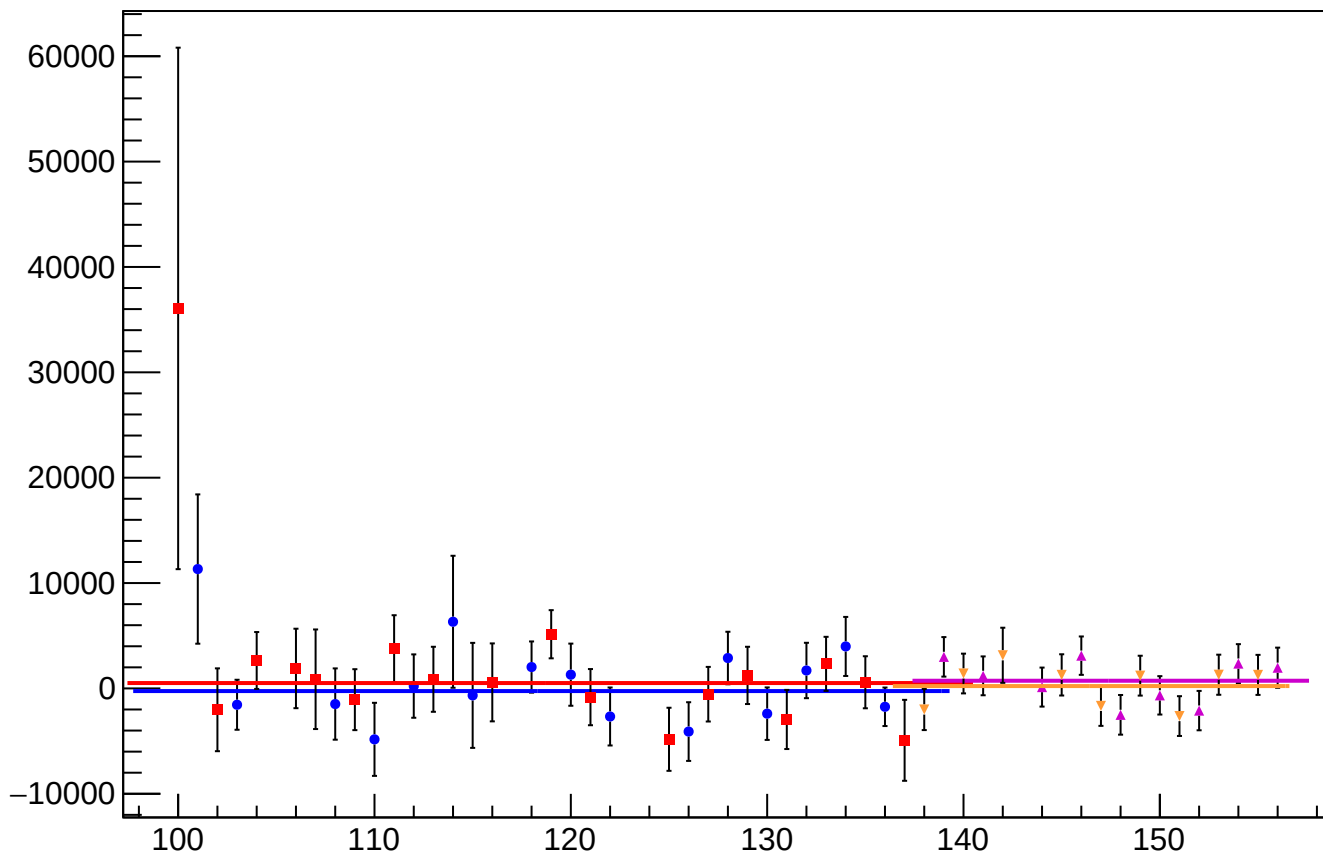
Right: 1461.694 $\pm$ 0.285 χ^2/NDF : 2573300.6/33

In: 1115.356 $\pm$ 0.212 χ^2/NDF : 2237652.3/24

Out: 1128.759 $\pm$ 0.223 χ^2/NDF : 2846603.9/26

All: 1121.722 $\pm$ 0.154 χ^2/NDF : 5086154.7/51

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: 222.695+/-653.326 χ^2/NDF : 7.4/8

Right Out: 510.117+/-715.442 χ^2/NDF : 16.4/17

Left In: 728.735+/-618.865 χ^2/NDF : 10.4/8

Left: 489.412+/-449.292 χ^2/NDF : 18.1/17

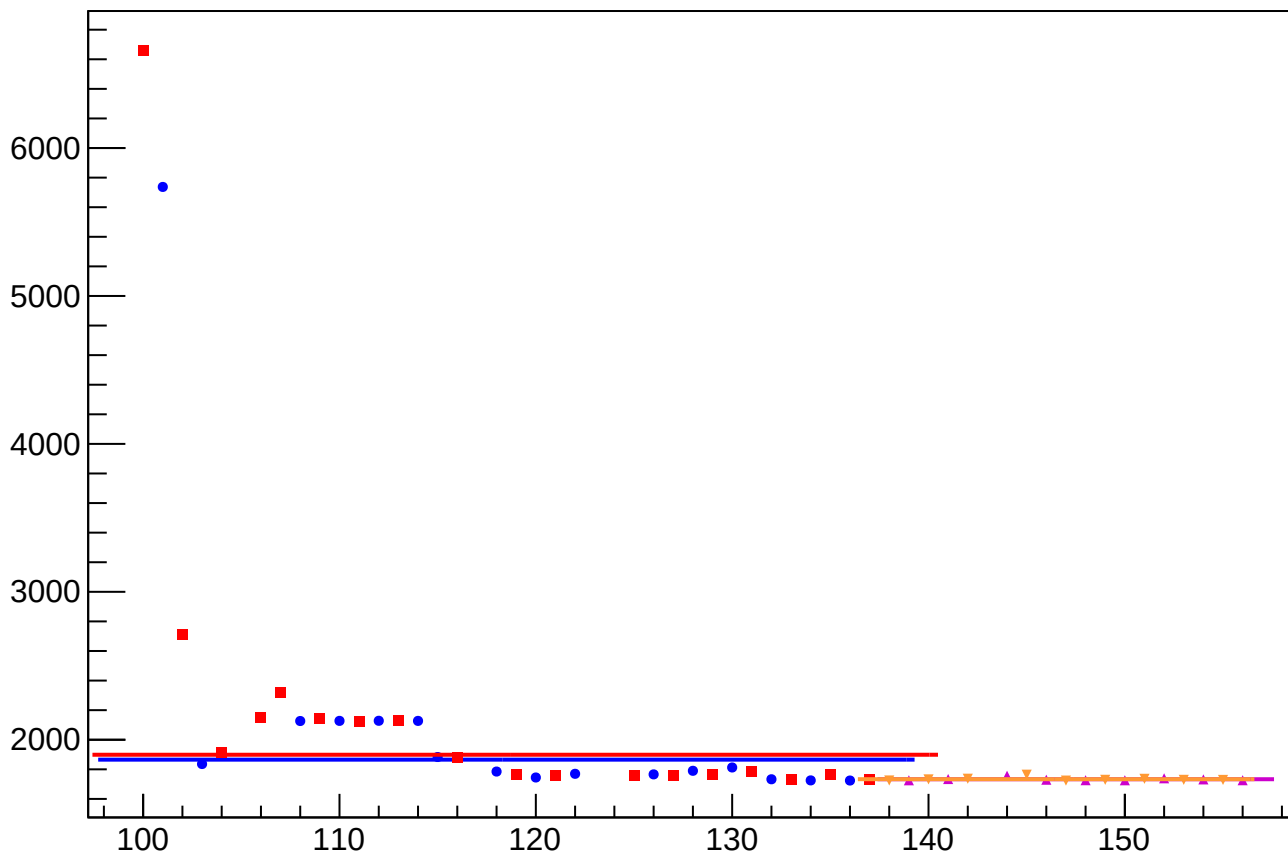
Right: 126.122+/-503.949 χ^2/NDF : 32.6/33

In: 305.284+/-466.511 χ^2/NDF : 27.1/24

Out: 353.389+/-482.439 χ^2/NDF : 23.9/26

All: 328.529+/-335.363 χ^2/NDF : 51.0/51

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: 1733.343+/-0.462 χ^2/NDF : 613.9/8

Right Out: 1898.603+/-0.506 χ^2/NDF : 269109.9/17

Left In: 1733.106+/-0.438 χ^2/NDF : 465.0/8

Left: 1733.218+/-0.318 χ^2/NDF : 1079.0/17

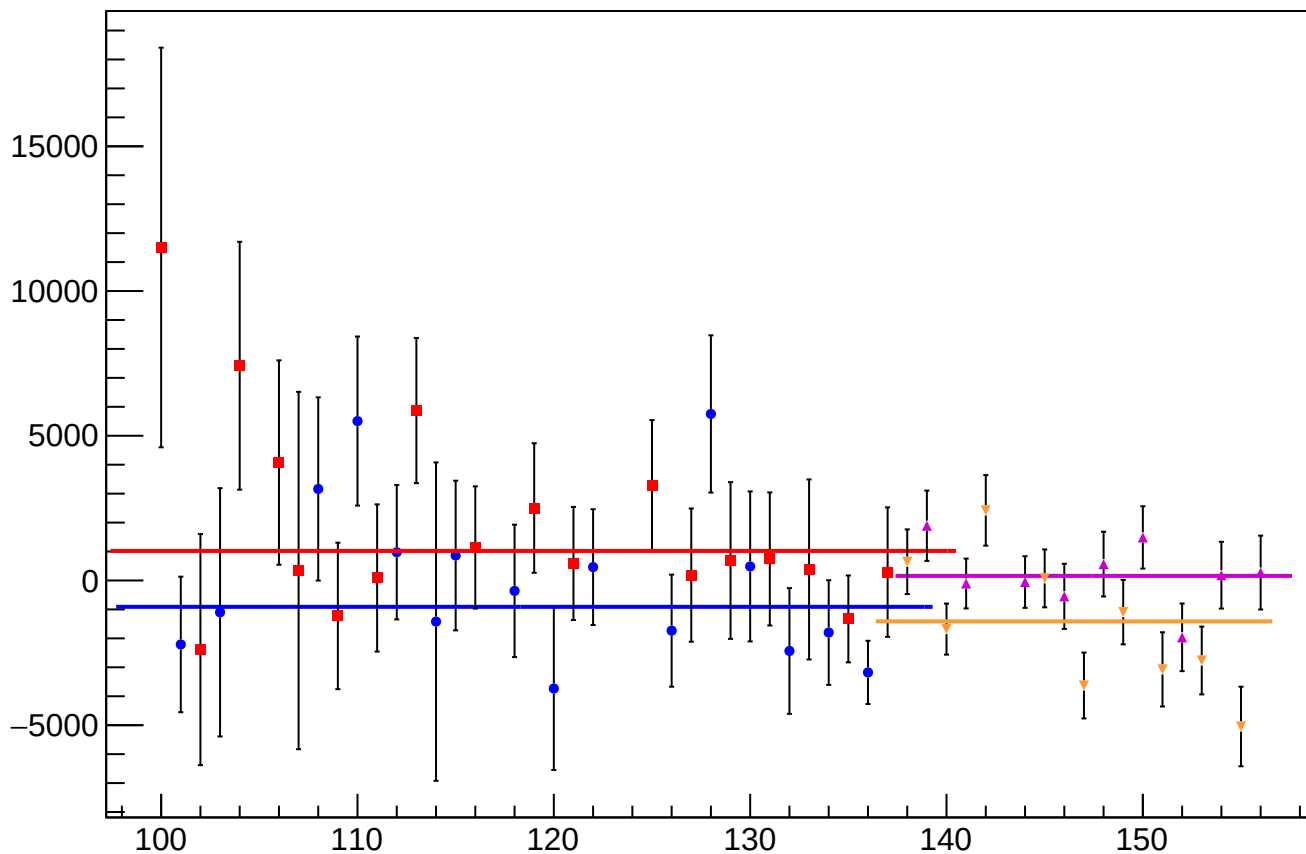
Right: 1881.894+/-0.356 χ^2/NDF : 946264.6/33

In: 1790.242+/-0.330 χ^2/NDF : 714938.5/24

Out: 1808.489+/-0.341 χ^2/NDF : 327913.0/26

All: 1799.059+/-0.237 χ^2/NDF : 1044330.0/51

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -910.950 $\pm$ 550.835 χ^2 /NDF: 21.0/15

Left Out: -1412.085 $\pm$ 372.518 χ^2 /NDF:29.5/8

Right Out: 1020.123 $\pm$ 591.599 χ^2 /NDF: 14.9/17

Left In: 158.290 $\pm$ 357.372 χ^2 /NDF:7.5/8

Left: -594.325 $\pm$ 257.888 χ^2 /NDF: 46.3/17

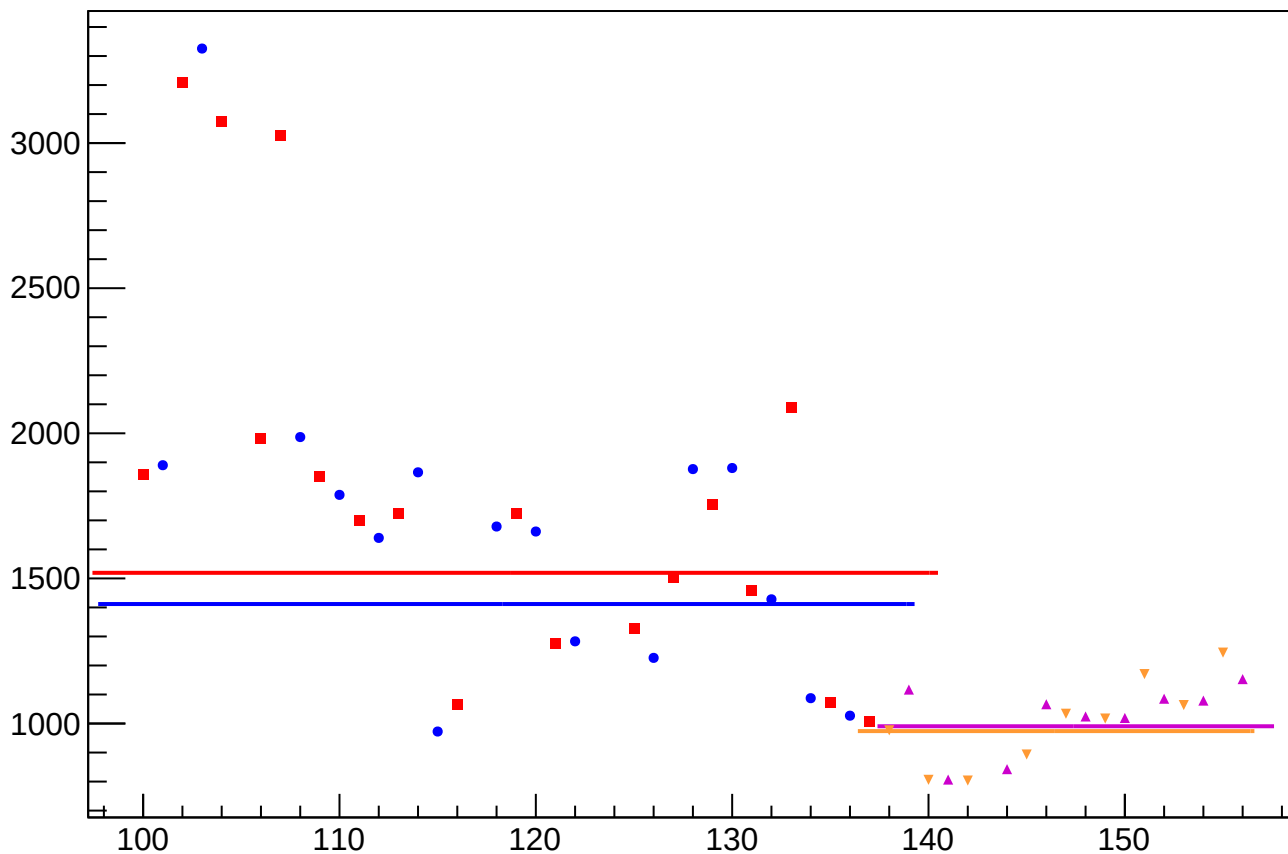
Right: -14.230 $\pm$ 403.141 χ^2 /NDF: 41.6/33

In: -158.451 $\pm$ 299.803 χ^2 /NDF:31.2/24

Out: -721.528 $\pm$ 315.230 χ^2 /NDF:56.5/26

All: -425.875 $\pm$ 217.242 χ^2 /NDF: 89.4/51

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: 973.909+/-0.263 χ^2/NDF : 269281.8/8

Right Out: 1519.302+/-0.418 χ^2/NDF : 1360150.0/17

Left In: 990.600+/-0.253 χ^2/NDF : 237128.9/8

Left: 982.601+/-0.182 χ^2/NDF : 508501.4/17

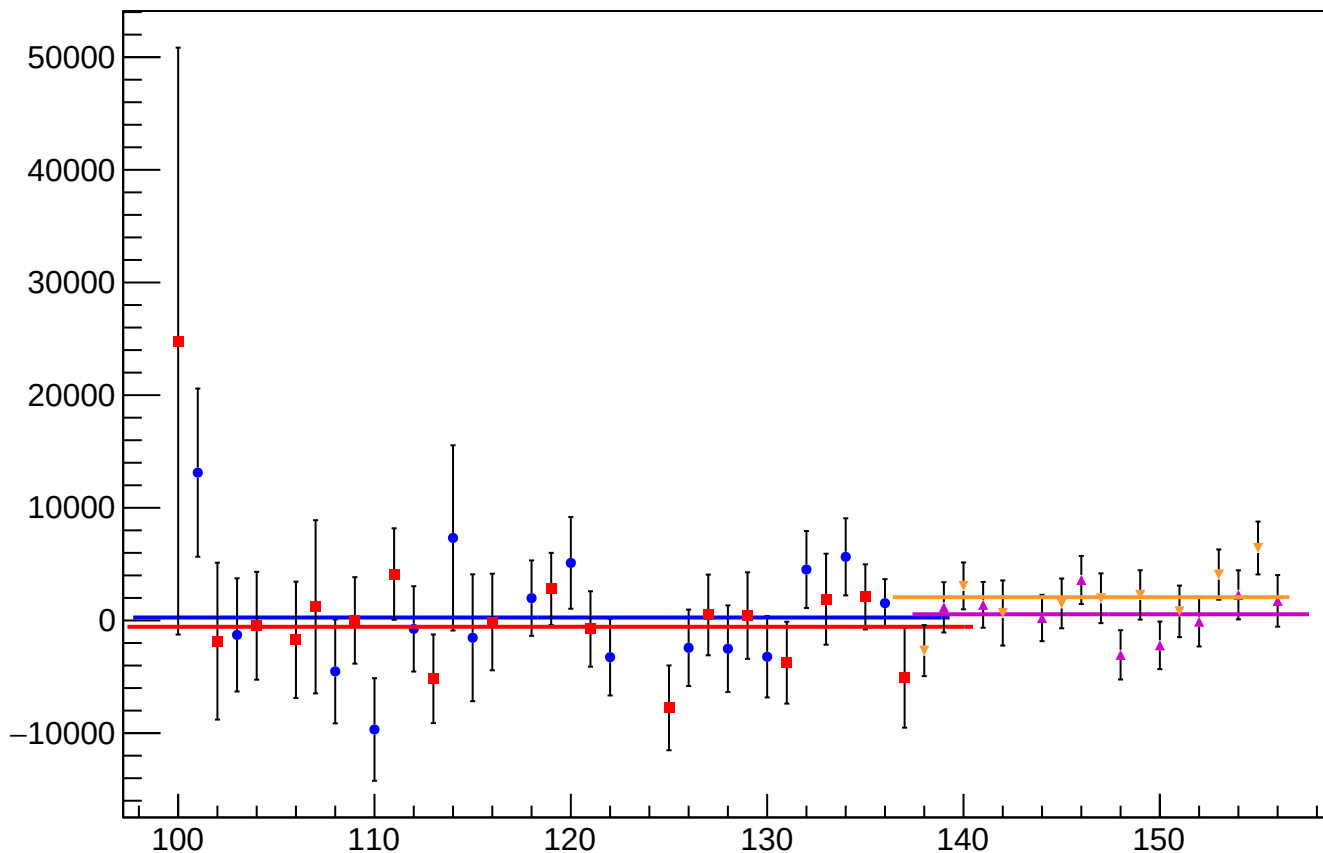
Right: 1461.691+/-0.285 χ^2/NDF : 2573306.2/33

In: 1115.356+/-0.212 χ^2/NDF : 2237649.4/24

Out: 1128.758+/-0.223 χ^2/NDF : 2846611.1/26

All: 1121.721+/-0.154 χ^2/NDF : 5086158.9/51

asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 264.383 $\pm$ 941.979 χ^2 /NDF: 19.0/15

Left Out: 2067.805 $\pm$ 758.552 χ^2 /NDF: 9.5/8

Right Out: -560.962 $\pm$ 962.943 χ^2 /NDF: 11.7/17

Left In: 550.690 $\pm$ 718.055 χ^2 /NDF: 7.7/8

Left: 1267.670 $\pm$ 521.471 χ^2 /NDF: 19.3/17

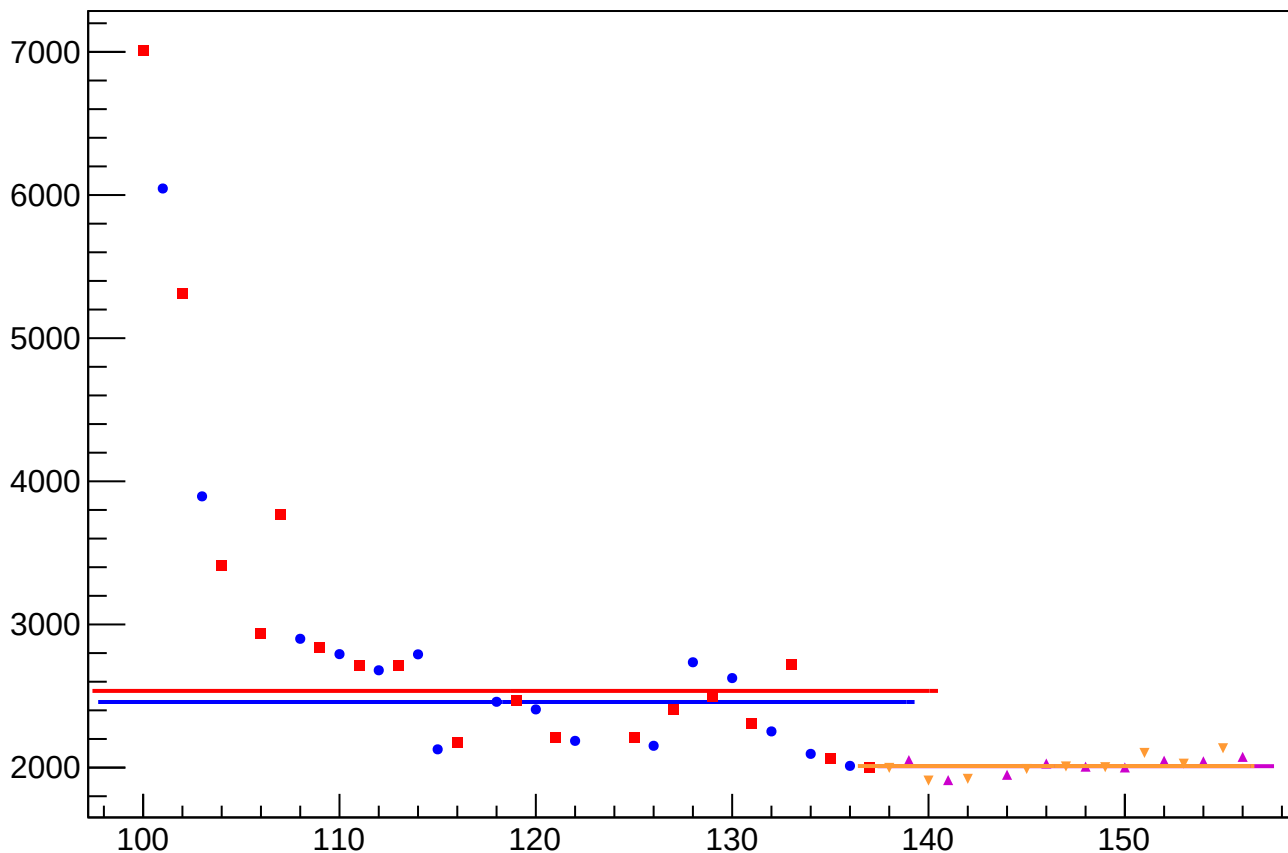
Right: -139.208 $\pm$ 673.369 χ^2 /NDF: 31.2/33

In: 445.467 $\pm$ 571.059 χ^2 /NDF: 26.8/24

Out: 1061.192 $\pm$ 595.876 χ^2 /NDF: 25.9/26

All: 740.241 $\pm$ 412.294 χ^2 /NDF: 53.2/51

asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 2458.332 $\pm$ 0.666 χ^2/NDF : 832888.7/15

Left Out: 2010.873 $\pm$ 0.536 χ^2/NDF :15852.7/8

Right Out: 2535.782 $\pm$ 0.681 χ^2/NDF : 673337.1/17

Left In: 2009.909 $\pm$ 0.508 χ^2/NDF :9921.6/8

Left: 2010.365 $\pm$ 0.369 χ^2/NDF : 25776.0/17

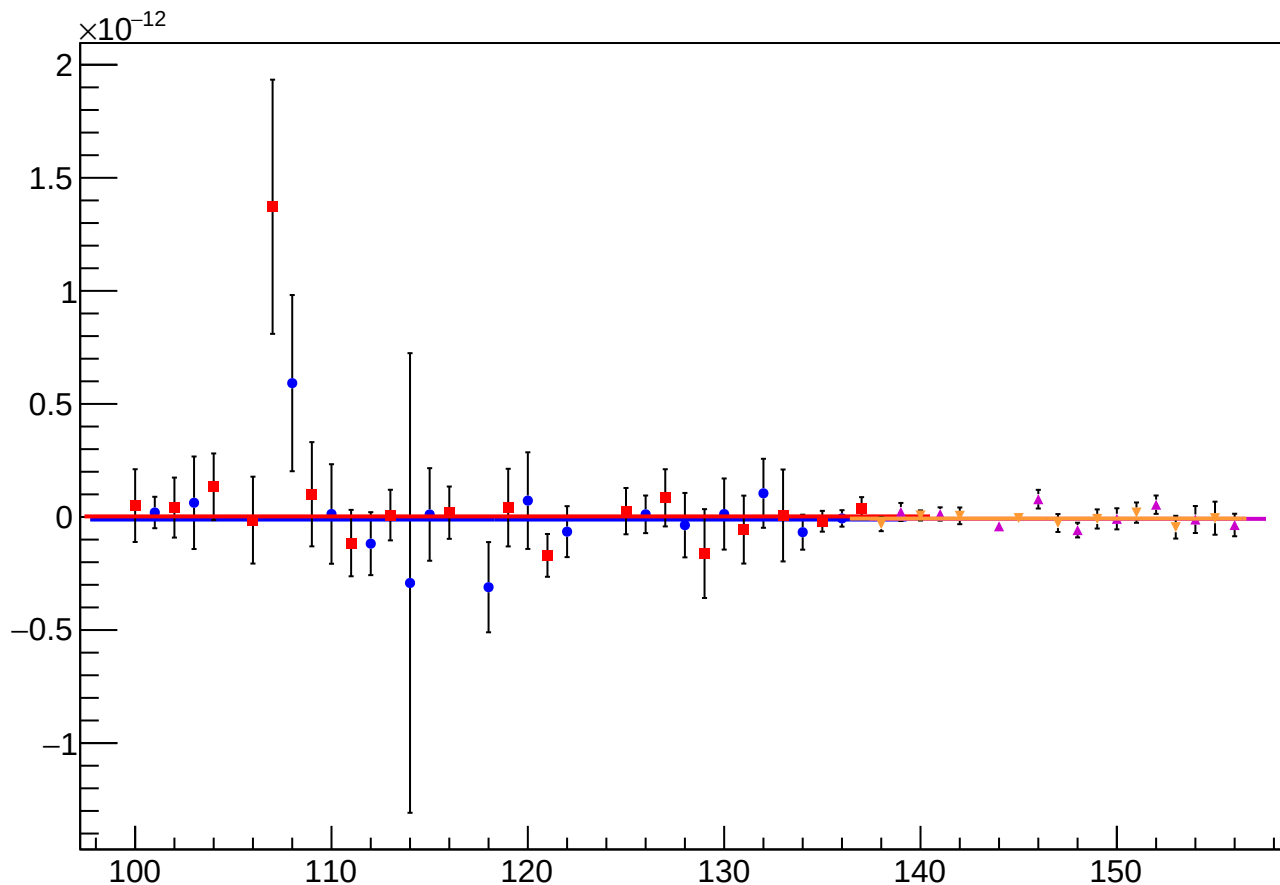
Right: 2496.205 $\pm$ 0.476 χ^2/NDF : 1512837.3/33

In: 2174.713 $\pm$ 0.404 χ^2/NDF :1129472.5/24

Out: 2211.873 $\pm$ 0.421 χ^2/NDF :1055913.6/26

All: 2192.503 $\pm$ 0.292 χ^2/NDF : 2189440.6/51

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 : 2.3/8

Right Out: 0.000+/-0.000 χ^2/NDF : 13.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 13.0/8

Left: -0.000+/-0.000 χ^2/NDF : 15.3/17

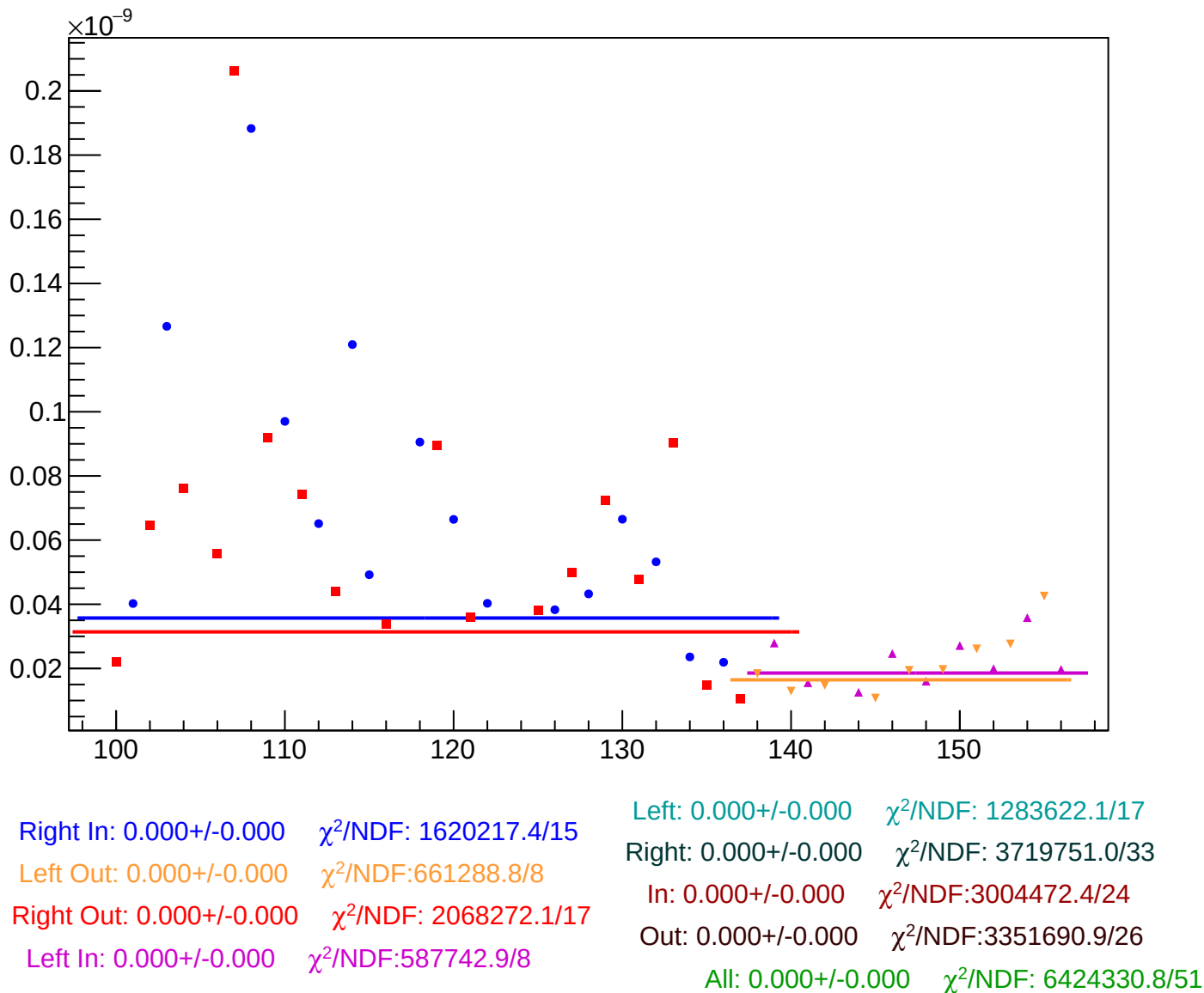
Right: -0.000+/-0.000 χ^2/NDF : 20.7/33

In: -0.000+/-0.000 χ^2/NDF : 20.3/24

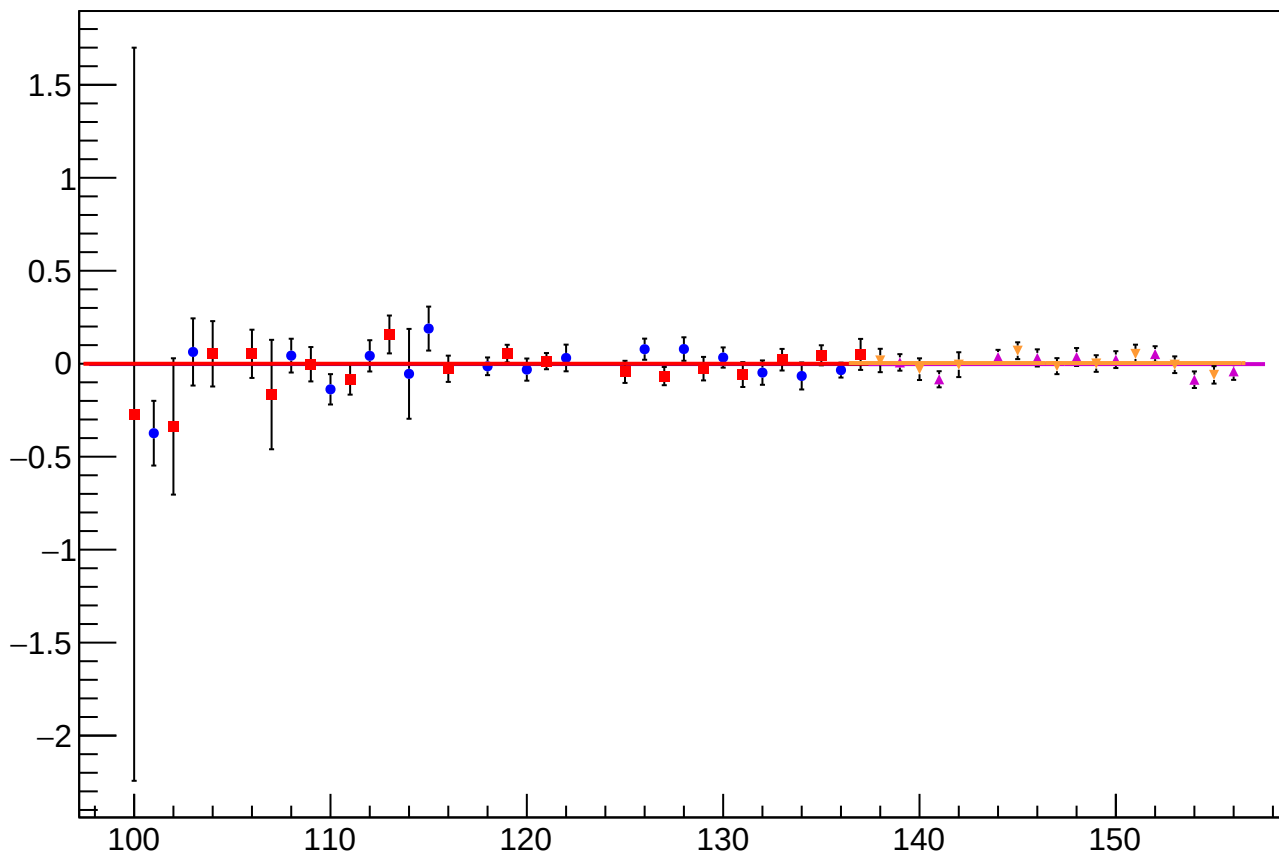
Out: -0.000+/-0.000 χ^2/NDF : 15.6/26

All: -0.000+/-0.000 χ^2/NDF : 36.0/51

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.004 ± 0.017 $\chi^2/\text{NDF}: 5.6/8$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.002 ± 0.015 $\chi^2/\text{NDF}: 11.9/8$

Left: 0.000 ± 0.011 $\chi^2/\text{NDF}: 17.5/17$

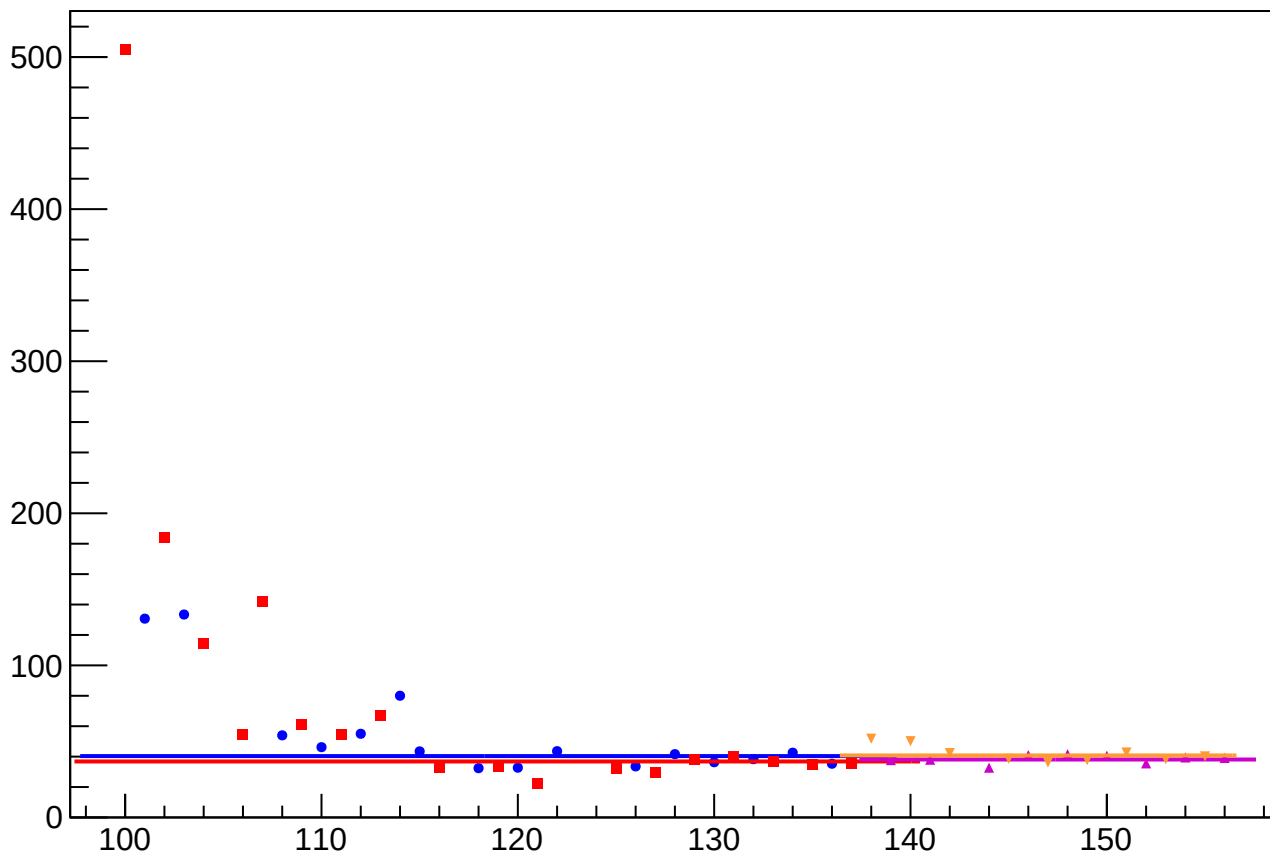
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.002 ± 0.011 $\chi^2/\text{NDF}: 29.0/24$

Out: 0.002 ± 0.012 $\chi^2/\text{NDF}: 16.5/26$

All: -0.000 ± 0.008 $\chi^2/\text{NDF}: 45.5/51$

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352+/-0.012 χ^2/NDF : 1410137.1/15

Left Out: 40.782+/-0.012 χ^2/NDF : 160778.1/8

Right Out: 36.825+/-0.012 χ^2/NDF : 1837124.6/17

Left In: 38.106+/-0.010 χ^2/NDF : 72996.2/8

Left: 39.287+/-0.008 χ^2/NDF : 263023.2/17

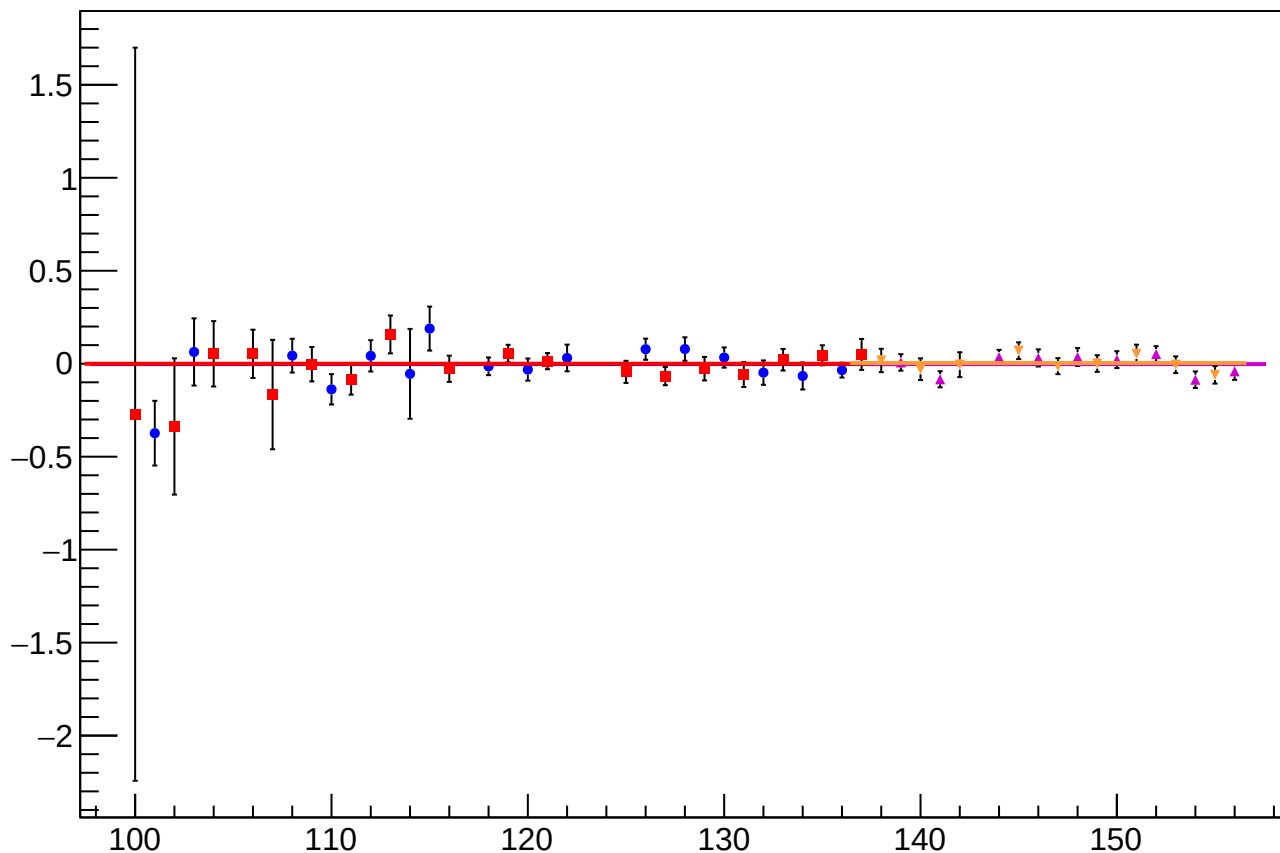
Right: 38.545+/-0.008 χ^2/NDF : 3290942.4/33

In: 39.062+/-0.008 χ^2/NDF : 1502993.8/24

Out: 38.819+/-0.008 χ^2/NDF : 2054713.1/26

All: 38.947+/-0.006 χ^2/NDF : 3558156.9/51

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: 0.004 ± 0.017 $\chi^2/\text{NDF}: 5.6/8$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.002 ± 0.015 $\chi^2/\text{NDF}: 11.9/8$

Left: 0.000 ± 0.011 $\chi^2/\text{NDF}: 17.5/17$

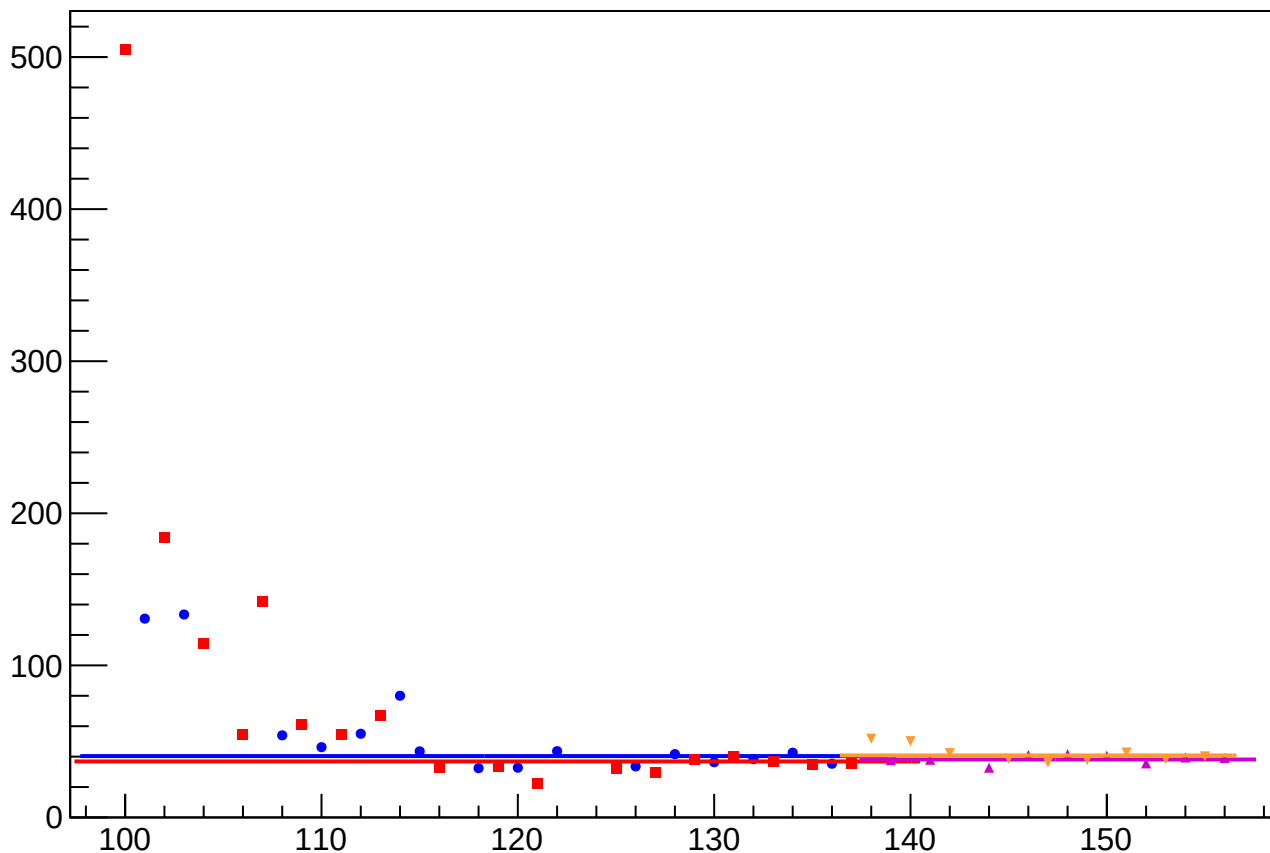
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.002 ± 0.011 $\chi^2/\text{NDF}: 29.0/24$

Out: 0.002 ± 0.012 $\chi^2/\text{NDF}: 16.5/26$

All: -0.000 ± 0.008 $\chi^2/\text{NDF}: 45.5/51$

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: 40.782+/-0.012 χ^2/NDF :160778.1/8

Right Out: 36.825+/-0.012 χ^2/NDF : 1837124.6/17

Left In: 38.106+/-0.010 χ^2/NDF :72996.2/8

Left: 39.287+/-0.008 χ^2/NDF : 263023.2/17

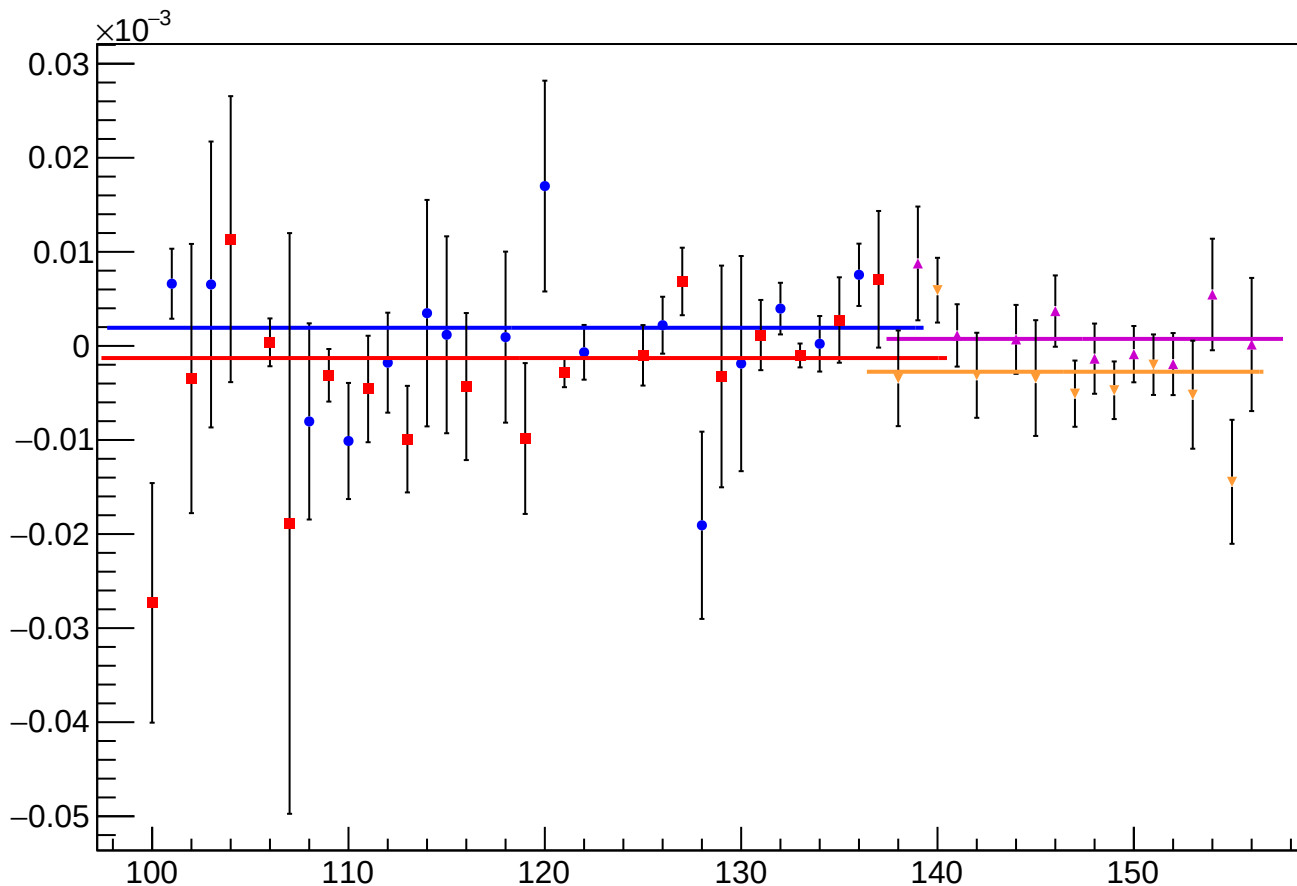
Right: 38.545+/-0.008 χ^2/NDF : 3290942.4/33

In: 39.062+/-0.008 χ^2/NDF :1502993.8/24

Out: 38.819+/-0.008 χ^2/NDF :2054713.1/26

All: 38.947+/-0.006 χ^2/NDF : 3558156.9/51

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 : 10.6/8

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 4.3/8

Left: -0.000+/-0.000 χ^2/NDF : 18.3/17

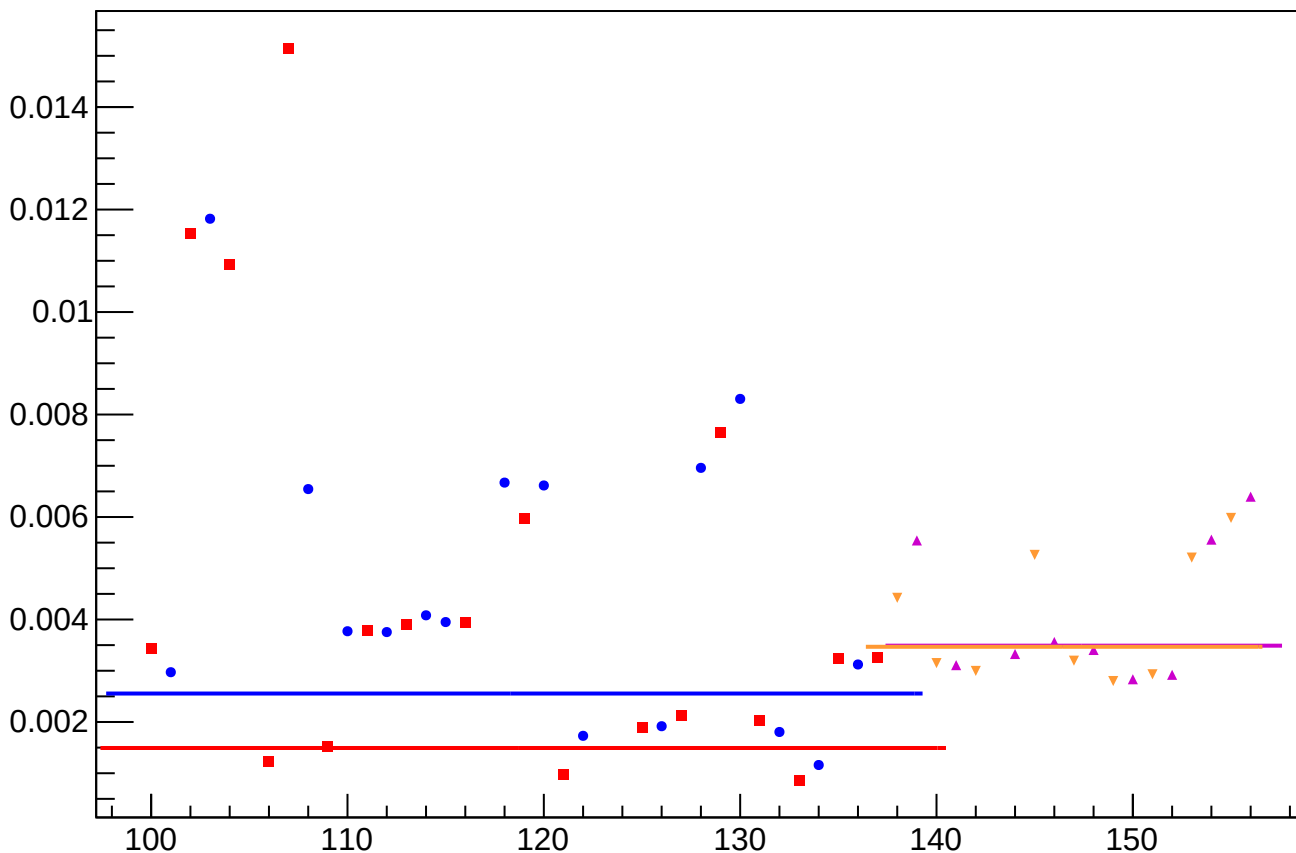
Right: -0.000+/-0.000 χ^2/NDF : 42.3/33

In: 0.000+/-0.000 χ^2/NDF : 22.6/24

Out: -0.000+/-0.000 χ^2/NDF : 30.4/26

All: -0.000+/-0.000 χ^2/NDF : 60.9/51

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 : 917245.0/8

Right Out: 0.001+/-0.000 χ^2/NDF : 5561830.1/17

Left In: 0.003+/-0.000 χ^2/NDF : 999007.8/8

Left: 0.003+/-0.000 χ^2/NDF : 1916514.9/17

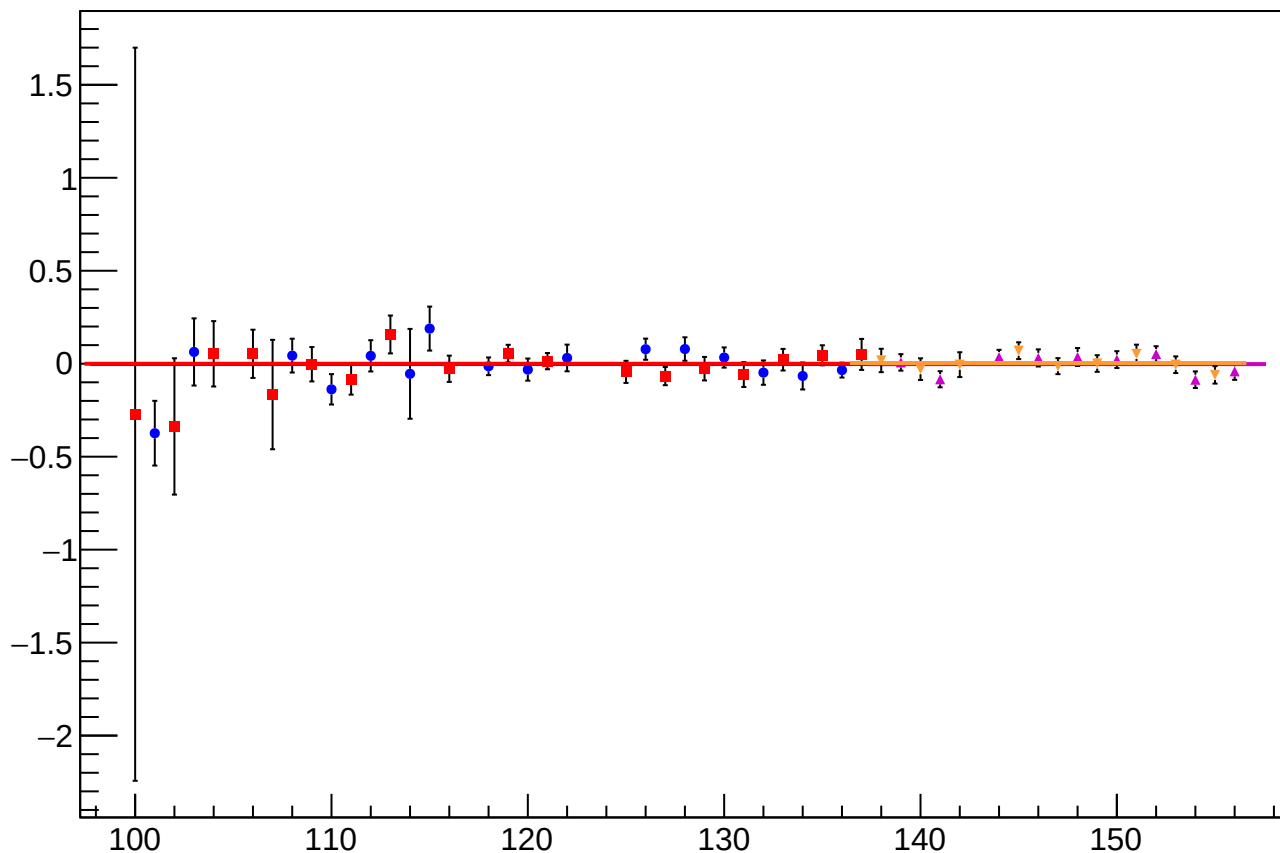
Right: 0.002+/-0.000 χ^2/NDF : 10553457.3/33

In: 0.003+/-0.000 χ^2/NDF : 5361048.6/24

Out: 0.002+/-0.000 χ^2/NDF : 9687798.7/26

All: 0.002+/-0.000 χ^2/NDF : 16782940.6/51

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: 0.004 ± 0.017 $\chi^2/\text{NDF}: 5.6/8$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.002 ± 0.015 $\chi^2/\text{NDF}: 11.9/8$

Left: 0.000 ± 0.011 $\chi^2/\text{NDF}: 17.5/17$

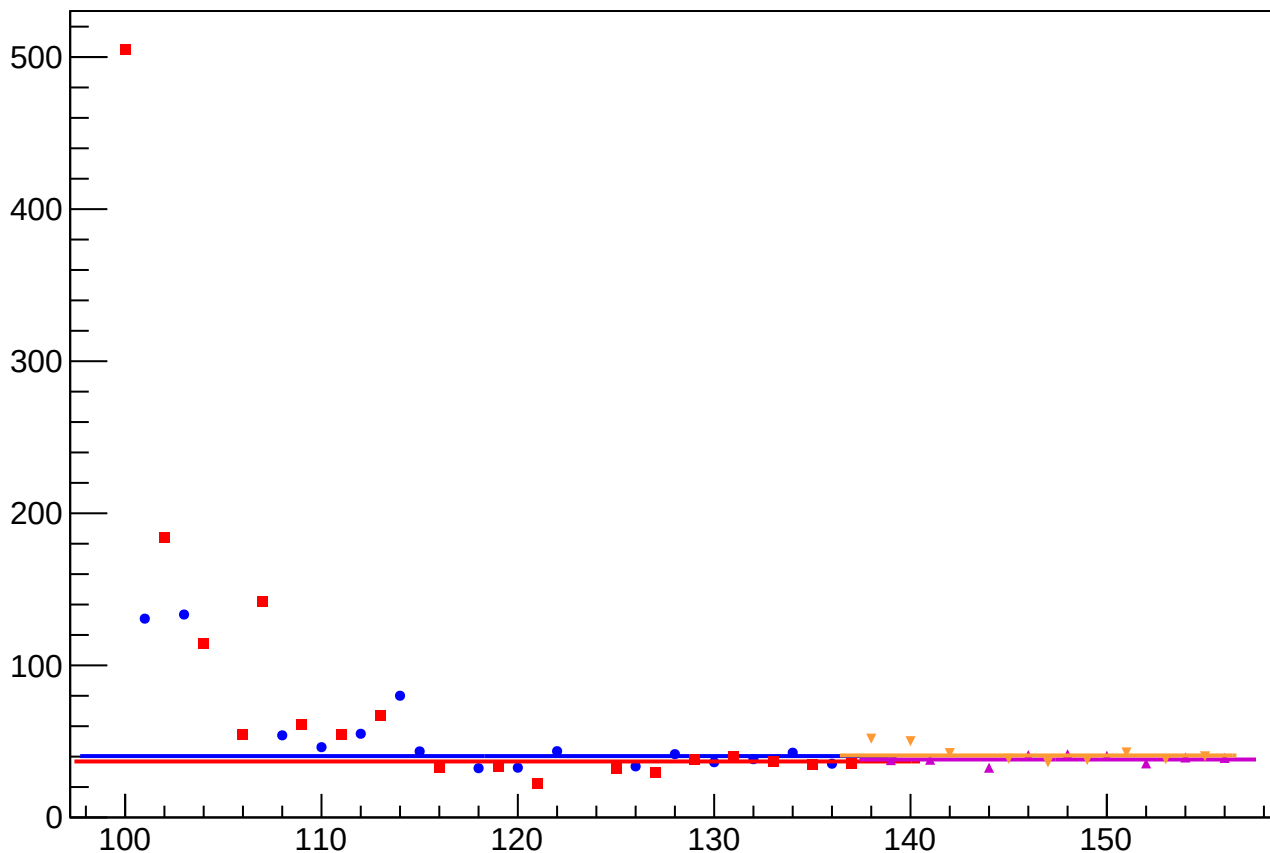
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.002 ± 0.011 $\chi^2/\text{NDF}: 29.0/24$

Out: 0.002 ± 0.012 $\chi^2/\text{NDF}: 16.5/26$

All: -0.000 ± 0.008 $\chi^2/\text{NDF}: 45.5/51$

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Left: 39.287 ± 0.008 $\chi^2/\text{NDF}: 263026.0/17$

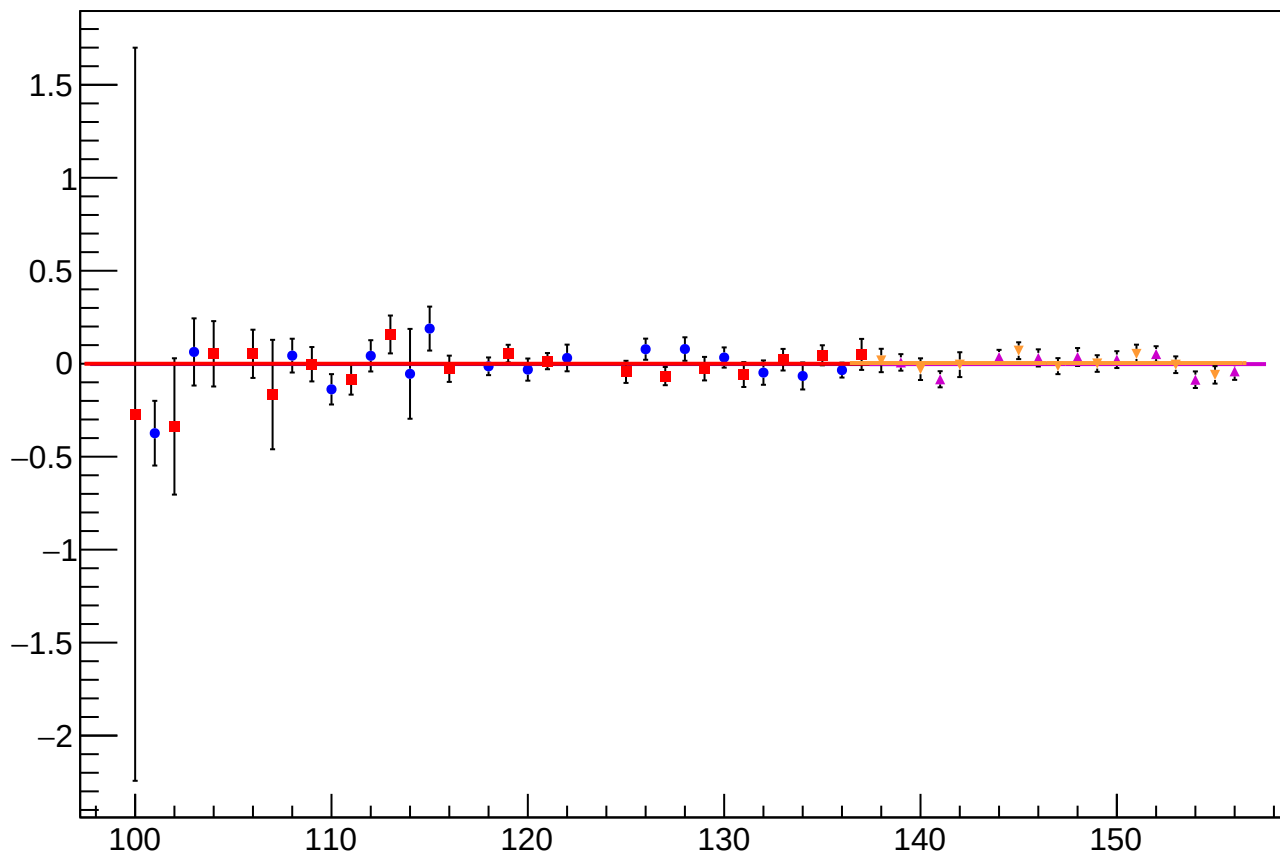
Right: 38.545 ± 0.008 $\chi^2/\text{NDF}: 3290871.7/33$

In: 39.062 ± 0.008 $\chi^2/\text{NDF}: 1502898.0/24$

Out: 38.818 ± 0.008 $\chi^2/\text{NDF}: 2054742.5/26$

All: 38.946 ± 0.006 $\chi^2/\text{NDF}: 3558093.5/51$

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 χ^2/NDF : 17.1/15

Left Out: 0.004 ± 0.017 χ^2/NDF : 5.6/8

Right Out: -0.000 ± 0.017 χ^2/NDF : 10.9/17

Left In: -0.002 ± 0.015 χ^2/NDF : 11.9/8

Left: 0.000 ± 0.011 χ^2/NDF : 17.5/17

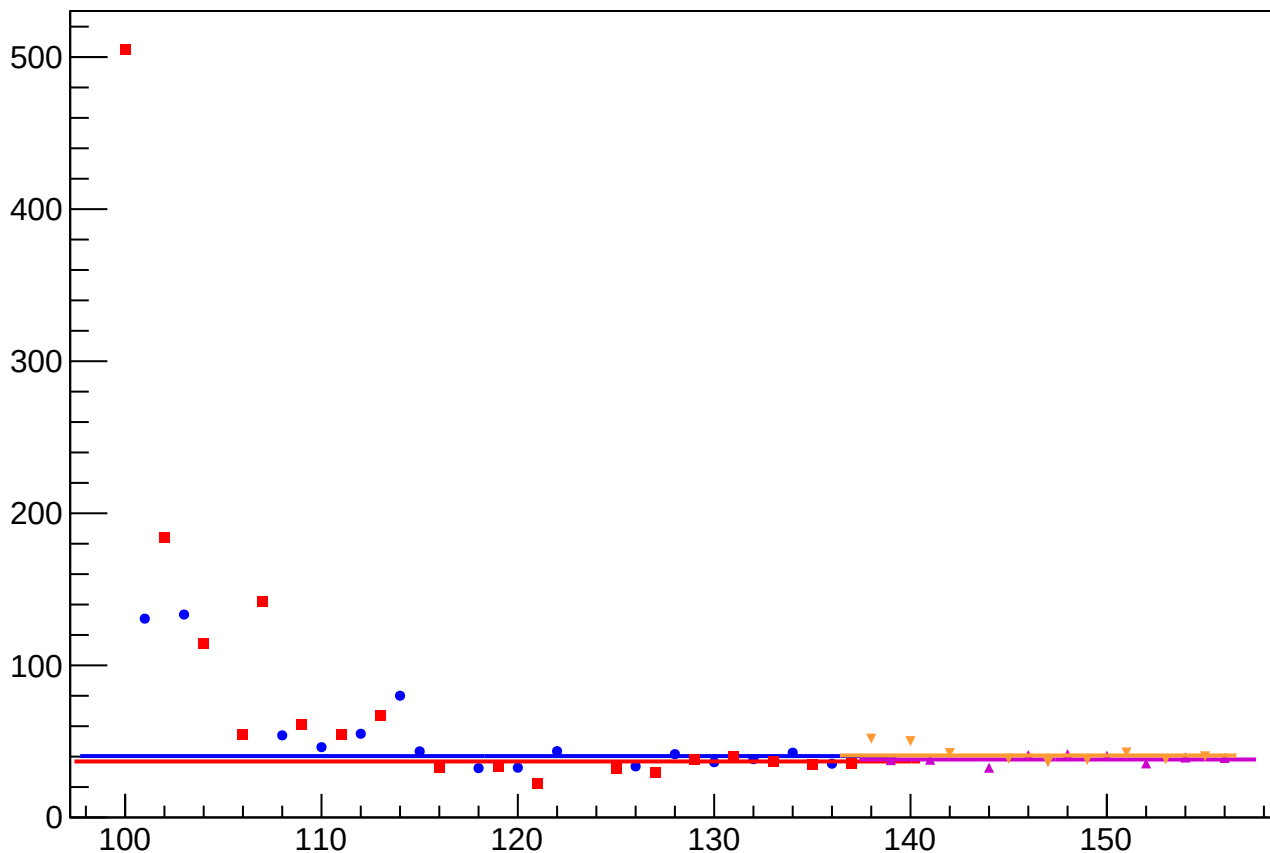
Right: -0.001 ± 0.012 χ^2/NDF : 28.0/33

In: -0.002 ± 0.011 χ^2/NDF : 29.0/24

Out: 0.002 ± 0.012 χ^2/NDF : 16.5/26

All: -0.000 ± 0.008 χ^2/NDF : 45.5/51

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352+/-0.012 χ^2/NDF : 1410036.7/15

Left Out: 40.782+/-0.012 χ^2/NDF : 160785.1/8

Right Out: 36.824+/-0.012 χ^2/NDF : 1837118.8/17

Left In: 38.106+/-0.010 χ^2/NDF : 72995.6/8

Left: 39.287+/-0.008 χ^2/NDF : 263026.0/17

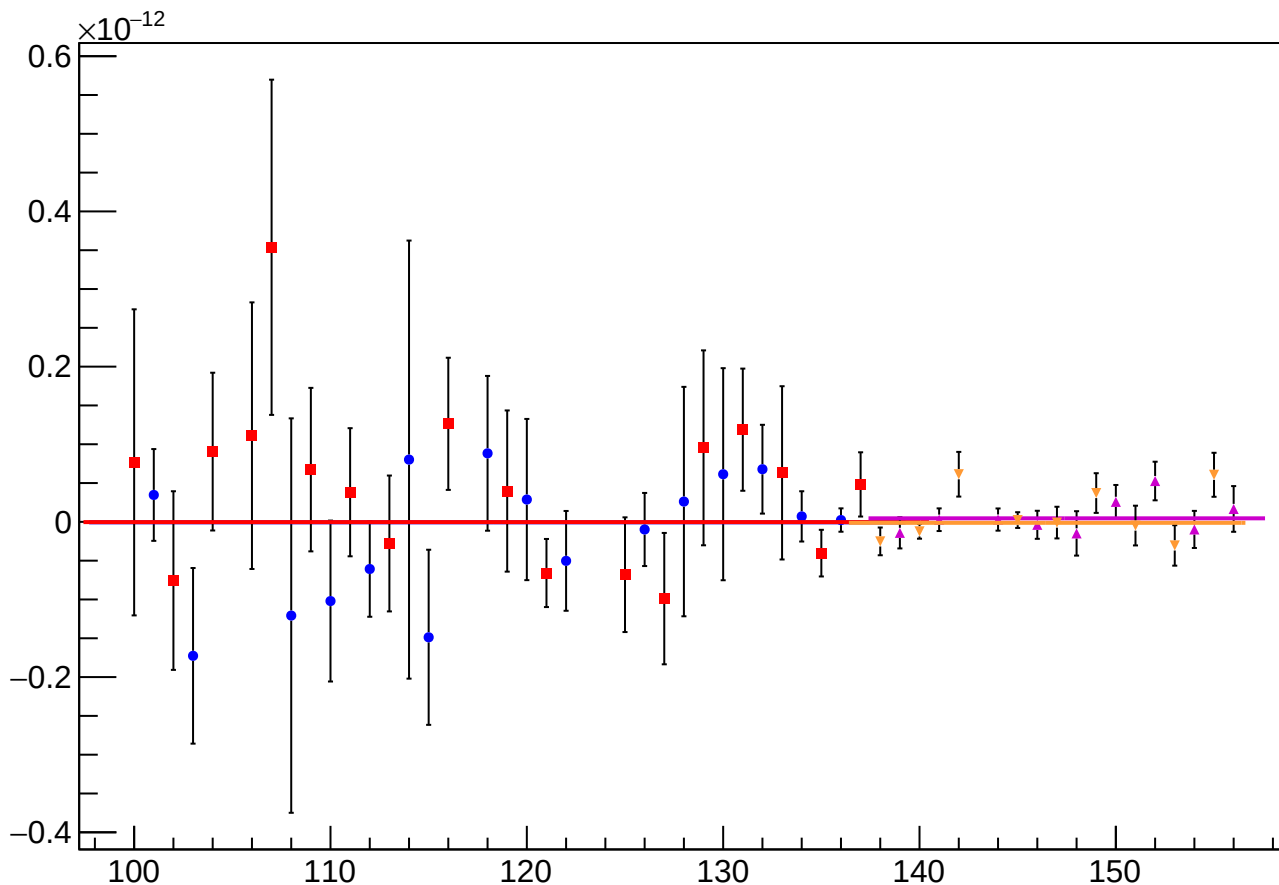
Right: 38.545+/-0.008 χ^2/NDF : 3290871.7/33

In: 39.062+/-0.008 χ^2/NDF : 1502898.0/24

Out: 38.818+/-0.008 χ^2/NDF : 2054742.5/26

All: 38.946+/-0.006 χ^2/NDF : 3558093.5/51

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 : 16.3/8

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 6.8/8

Left: 0.000+/-0.000 χ^2/NDF : 23.5/17

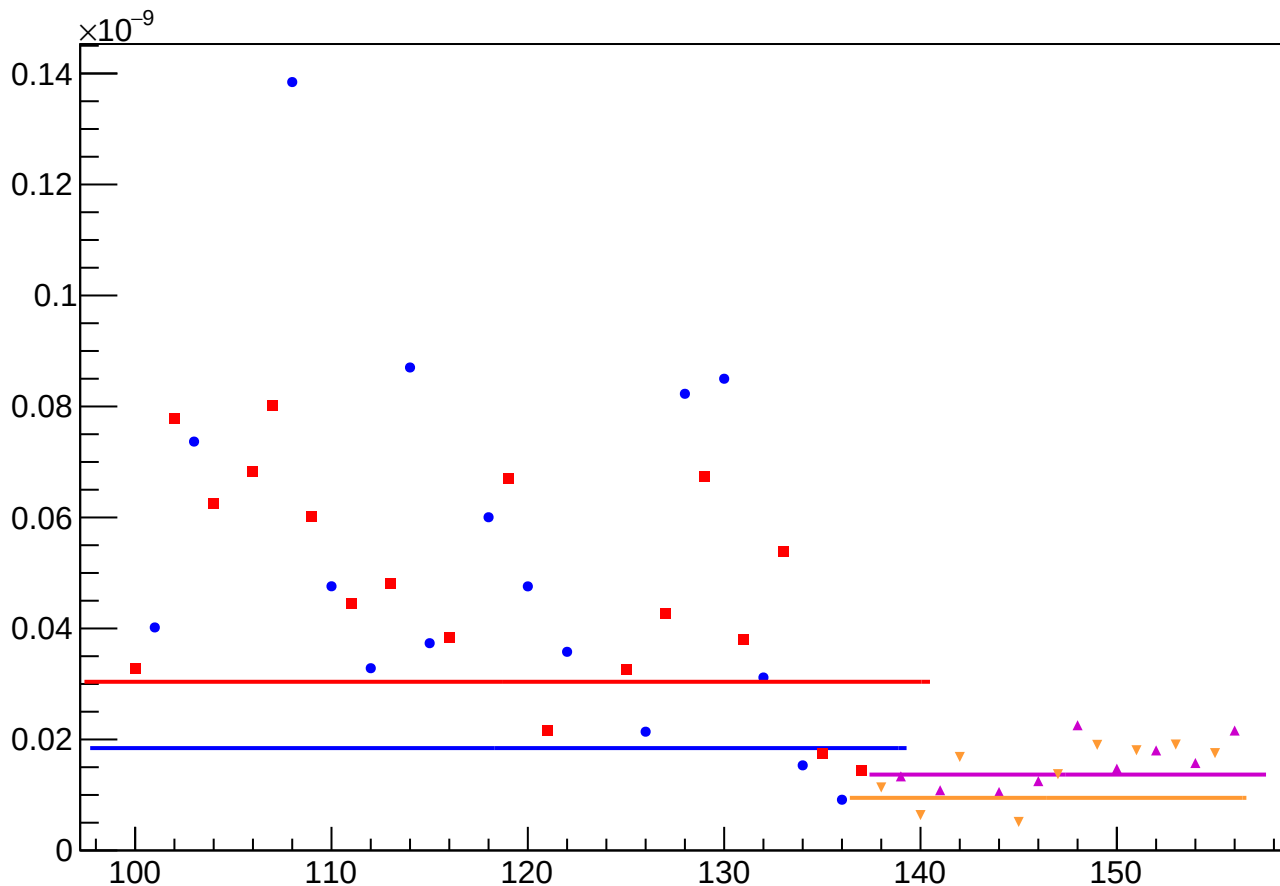
Right: -0.000+/-0.000 χ^2/NDF : 28.2/33

In: 0.000+/-0.000 χ^2/NDF : 16.8/24

Out: -0.000+/-0.000 χ^2/NDF : 34.6/26

All: 0.000+/-0.000 χ^2/NDF : 51.8/51

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 :1758722.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2387224.9/17

Left In: 0.000+/-0.000 χ^2/NDF :600077.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2837364.4/17

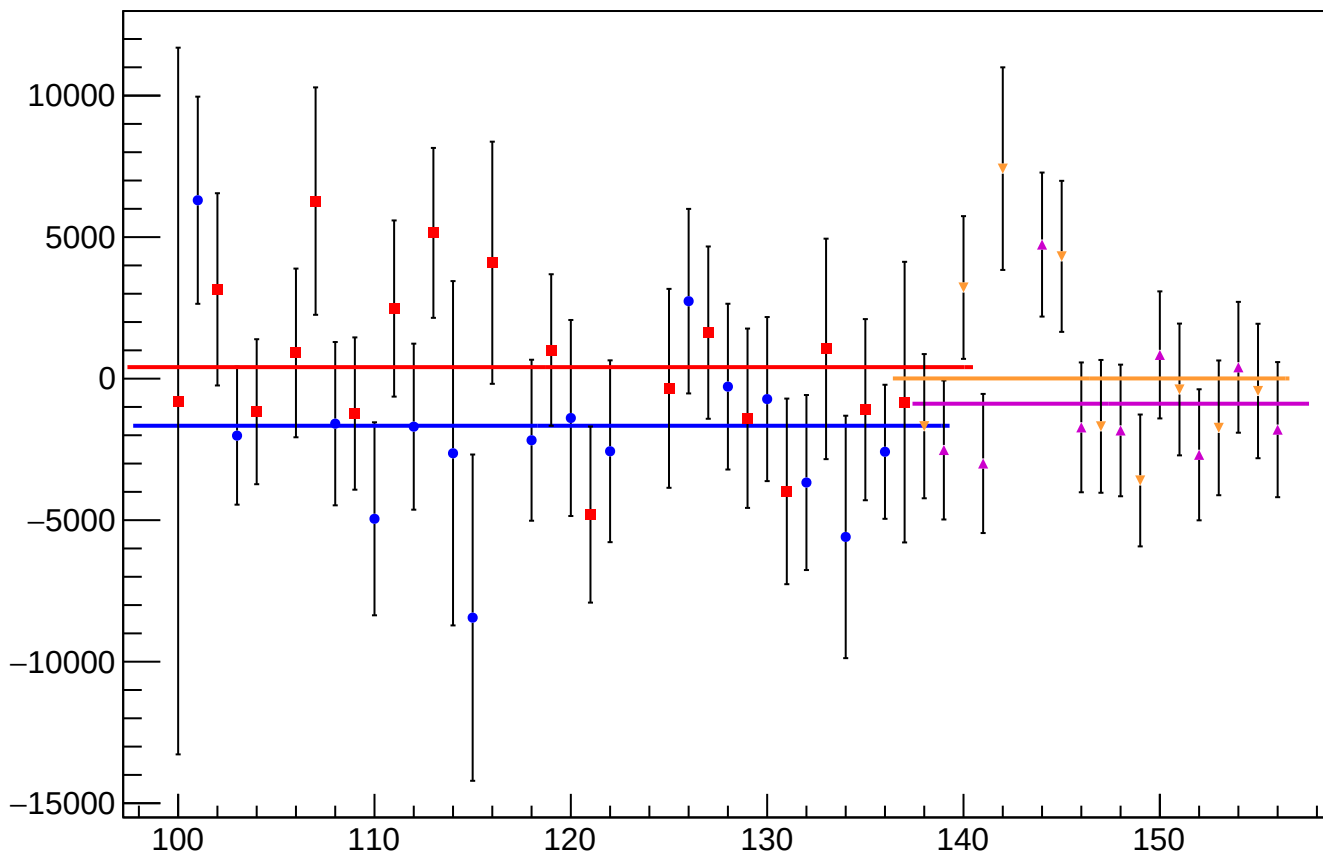
Right: 0.000+/-0.000 χ^2/NDF : 7115915.8/33

In: 0.000+/-0.000 χ^2/NDF :4880251.8/24

Out: 0.000+/-0.000 χ^2/NDF :7052737.2/26

All: 0.000+/-0.000 χ^2/NDF : 12293915.5/51

reg_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.305 ± 792.164 $\chi^2/\text{NDF}: 10.8/15$

Left Out: 7.056 ± 835.016 $\chi^2/\text{NDF}: 12.5/8$

Right Out: 406.847 ± 777.158 $\chi^2/\text{NDF}: 12.7/17$

Left In: -885.747 ± 788.424 $\chi^2/\text{NDF}: 8.0/8$

Left: -464.947 ± 573.264 $\chi^2/\text{NDF}: 21.1/17$

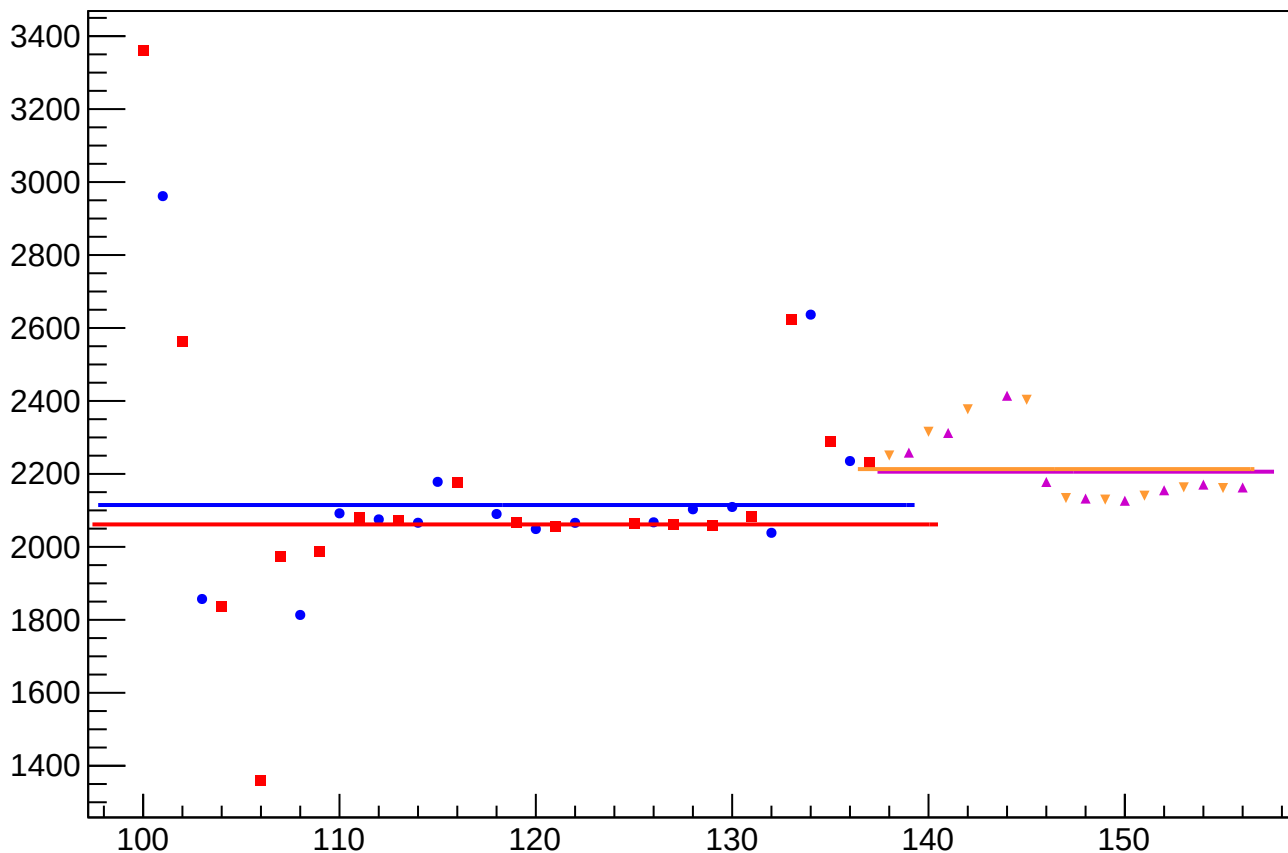
Right: -608.927 ± 554.763 $\chi^2/\text{NDF}: 27.0/33$

In: -1273.184 ± 558.818 $\chi^2/\text{NDF}: 19.3/24$

Out: 221.281 ± 568.889 $\chi^2/\text{NDF}: 25.3/26$

All: -539.298 ± 398.657 $\chi^2/\text{NDF}: 48.1/51$

reg_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755 $\pm$ 0.560 χ^2 /NDF: 189920.6/15

Left Out: 2213.213 $\pm$ 0.590 χ^2 /NDF: 26730.2/8

Right Out: 2061.560 $\pm$ 0.550 χ^2 /NDF: 249186.6/17

Left In: 2206.083 $\pm$ 0.558 χ^2 /NDF: 24944.4/8

Left: 2209.444 $\pm$ 0.405 χ^2 /NDF: 51751.7/17

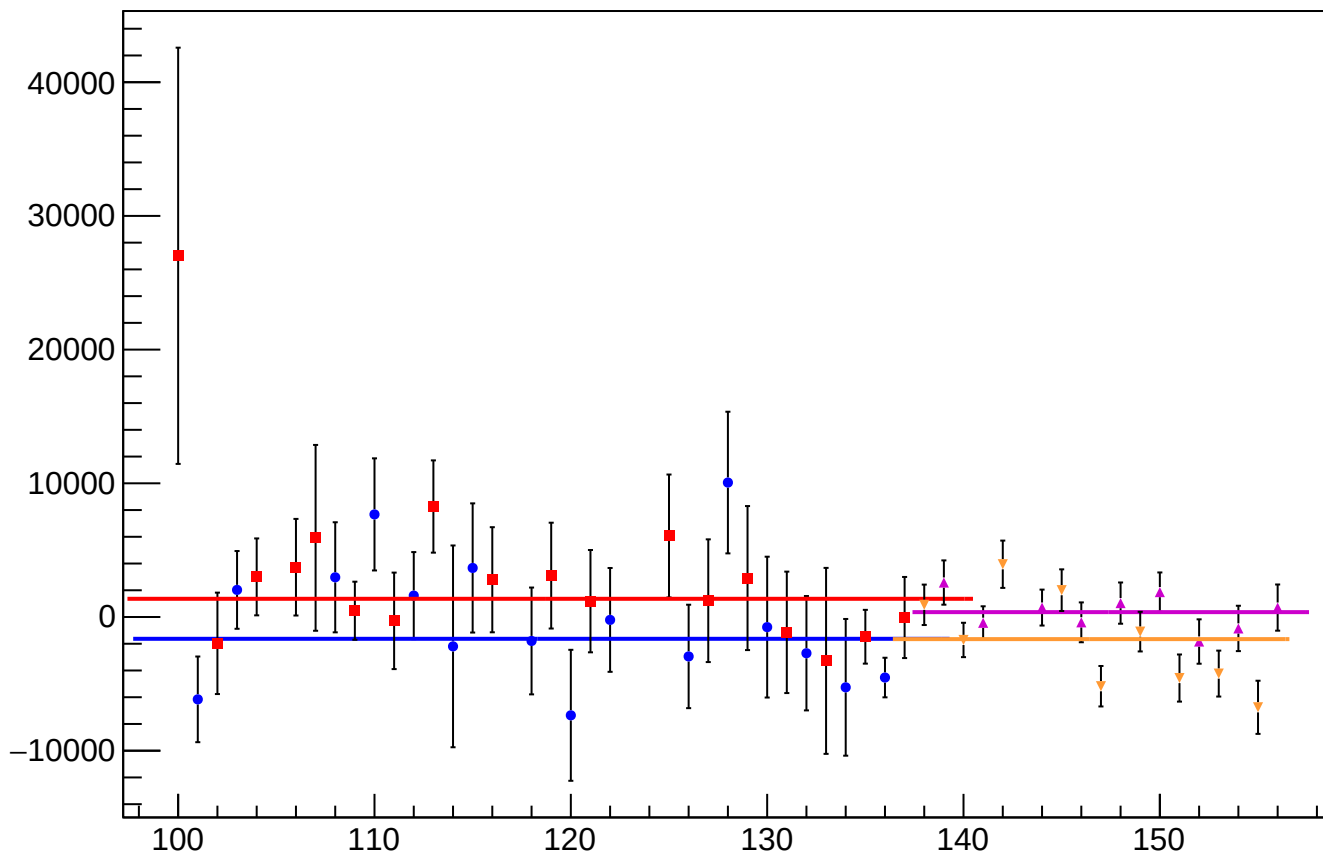
Right: 2087.649 $\pm$ 0.392 χ^2 /NDF: 443702.7/33

In: 2160.635 $\pm$ 0.395 χ^2 /NDF: 228219.4/24

Out: 2131.951 $\pm$ 0.402 χ^2 /NDF: 311266.3/26

All: 2146.549 $\pm$ 0.282 χ^2 /NDF: 542073.5/51

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1630.474 $\pm$ 862.417 χ^2 /NDF: 22.9/15

Left Out: -1654.017 $\pm$ 528.441 χ^2 /NDF:35.6/8

Right Out: 1361.841 $\pm$ 840.417 χ^2 /NDF: 13.5/17

Left In: 364.383 $\pm$ 502.799 χ^2 /NDF:6.1/8

Left: -594.659 $\pm$ 364.260 χ^2 /NDF: 49.3/17

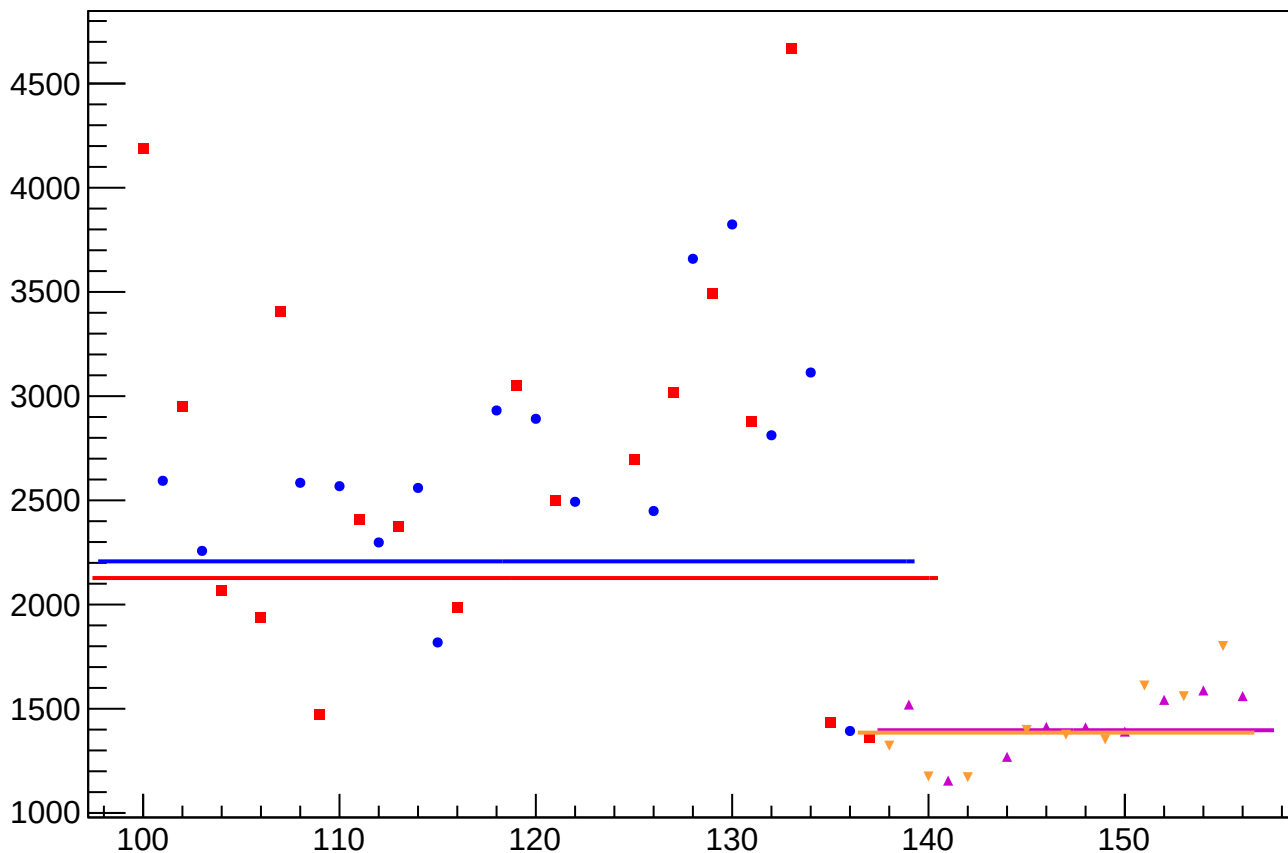
Right: -95.664 $\pm$ 601.892 χ^2 /NDF: 42.5/33

In: -141.666 $\pm$ 434.368 χ^2 /NDF:32.9/24

Out: -799.492 $\pm$ 447.355 χ^2 /NDF:58.3/26

All: -460.892 $\pm$ 311.634 χ^2 /NDF: 92.3/51

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: 1385.455+/-0.374

χ^2/NDF : 228375.7/8

Right Out: 2127.224+/-0.594

χ^2/NDF : 1458046.9/17

Left In: 1396.914+/-0.356

χ^2/NDF : 165177.5/8

Left: 1391.470+/-0.258

χ^2/NDF : 394046.8/17

Right: 2166.205+/-0.426

χ^2/NDF : 2716147.2/33

In: 1602.479+/-0.307

χ^2/NDF : 2732264.8/24

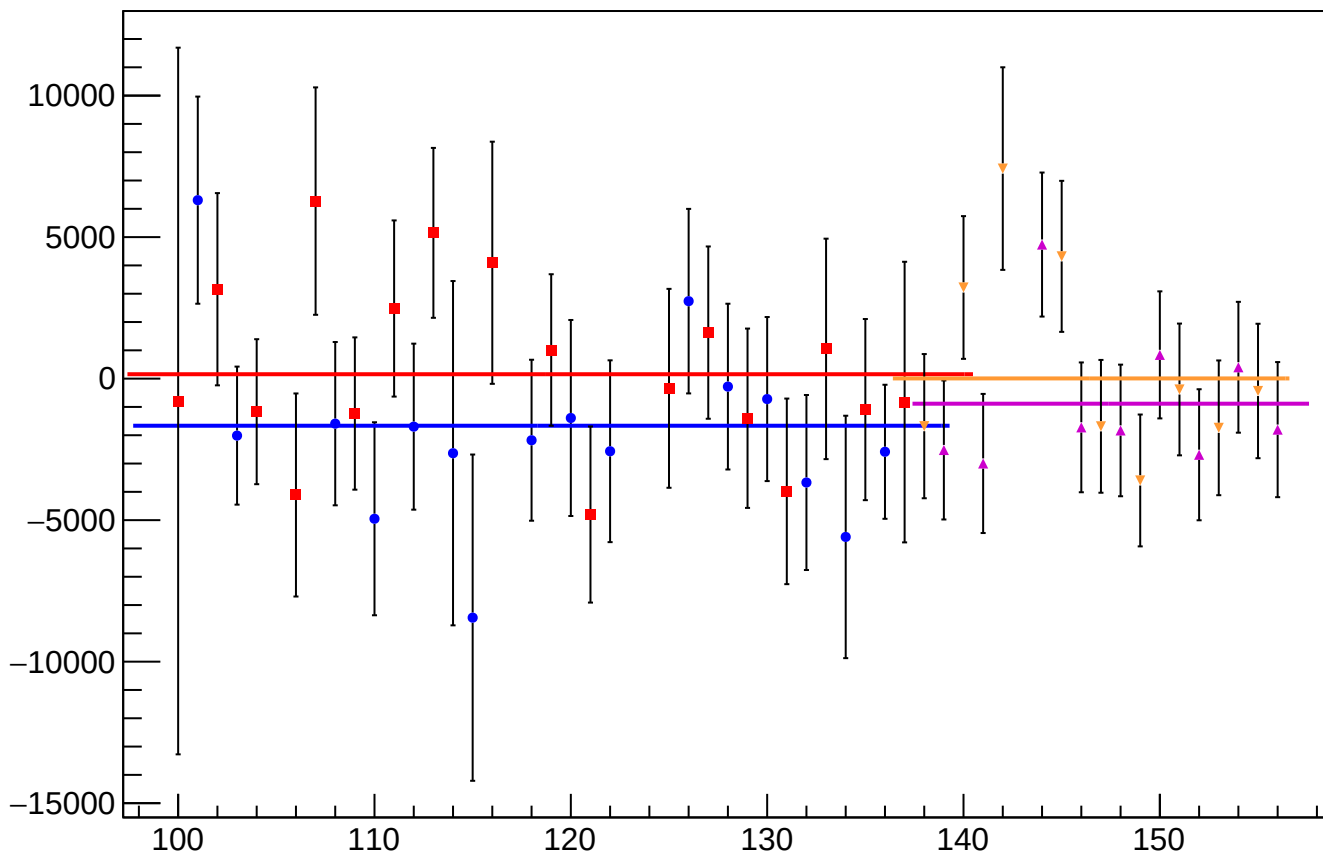
Out: 1595.631+/-0.316

χ^2/NDF : 2802997.2/26

All: 1599.156+/-0.220

χ^2/NDF : 5535503.2/51

cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231 ± 792.164 $\chi^2/\text{NDF}: 10.8/15$

Left Out: 7.191 ± 835.016 $\chi^2/\text{NDF}: 12.5/8$

Right Out: 155.775 ± 785.481 $\chi^2/\text{NDF}: 14.2/17$

Left In: -885.687 ± 788.424 $\chi^2/\text{NDF}: 8.0/8$

Left: -464.852 ± 573.264 $\chi^2/\text{NDF}: 21.1/17$

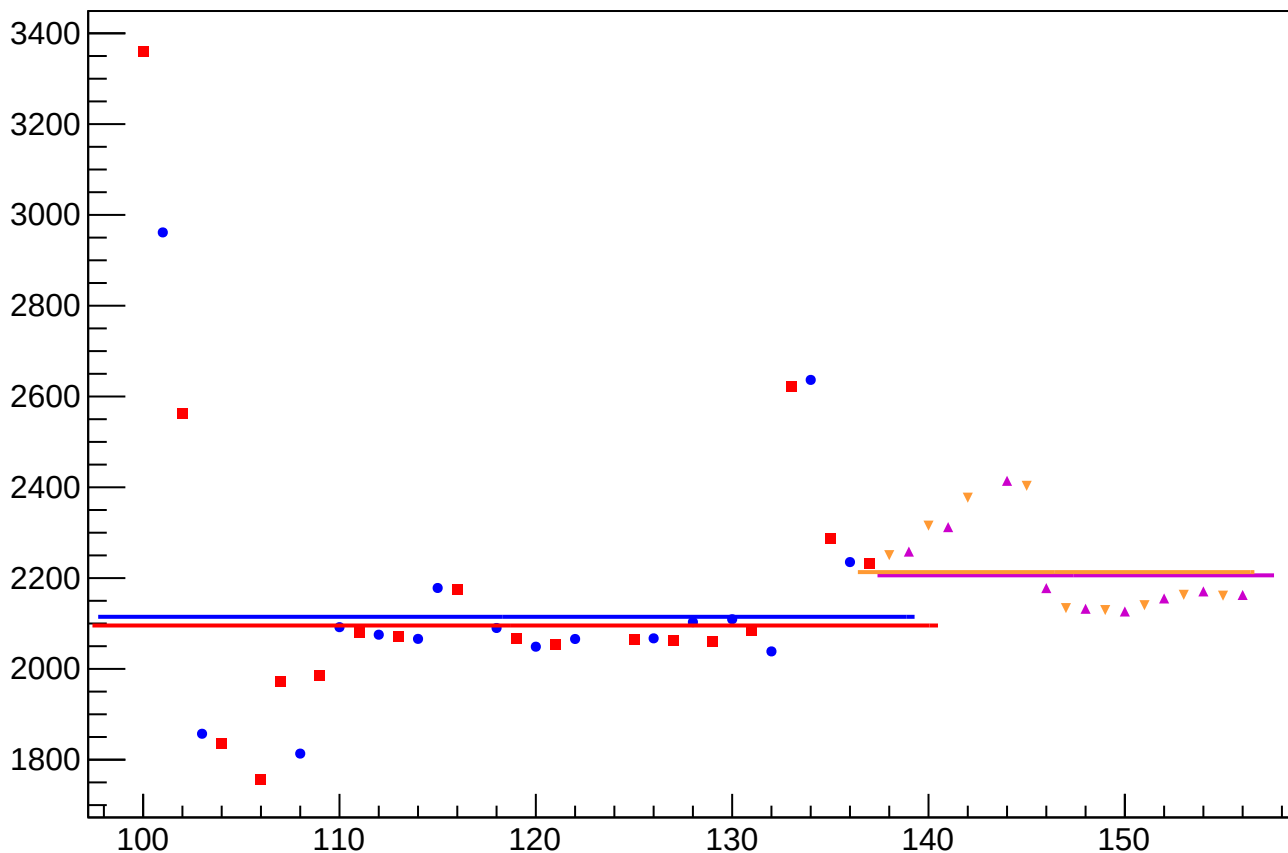
Right: -746.519 ± 557.767 $\chi^2/\text{NDF}: 27.6/33$

In: -1273.117 ± 558.818 $\chi^2/\text{NDF}: 19.3/24$

Out: 86.021 ± 572.130 $\chi^2/\text{NDF}: 26.7/26$

All: -609.544 ± 399.767 $\chi^2/\text{NDF}: 48.9/51$

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: 2213.213+/-0.590 χ^2/NDF : 26730.2/8

Right Out: 2095.597+/-0.555 χ^2/NDF : 149360.5/17

Left In: 2206.083+/-0.558 χ^2/NDF : 24944.4/8

Left: 2209.444+/-0.405 χ^2/NDF : 51751.7/17

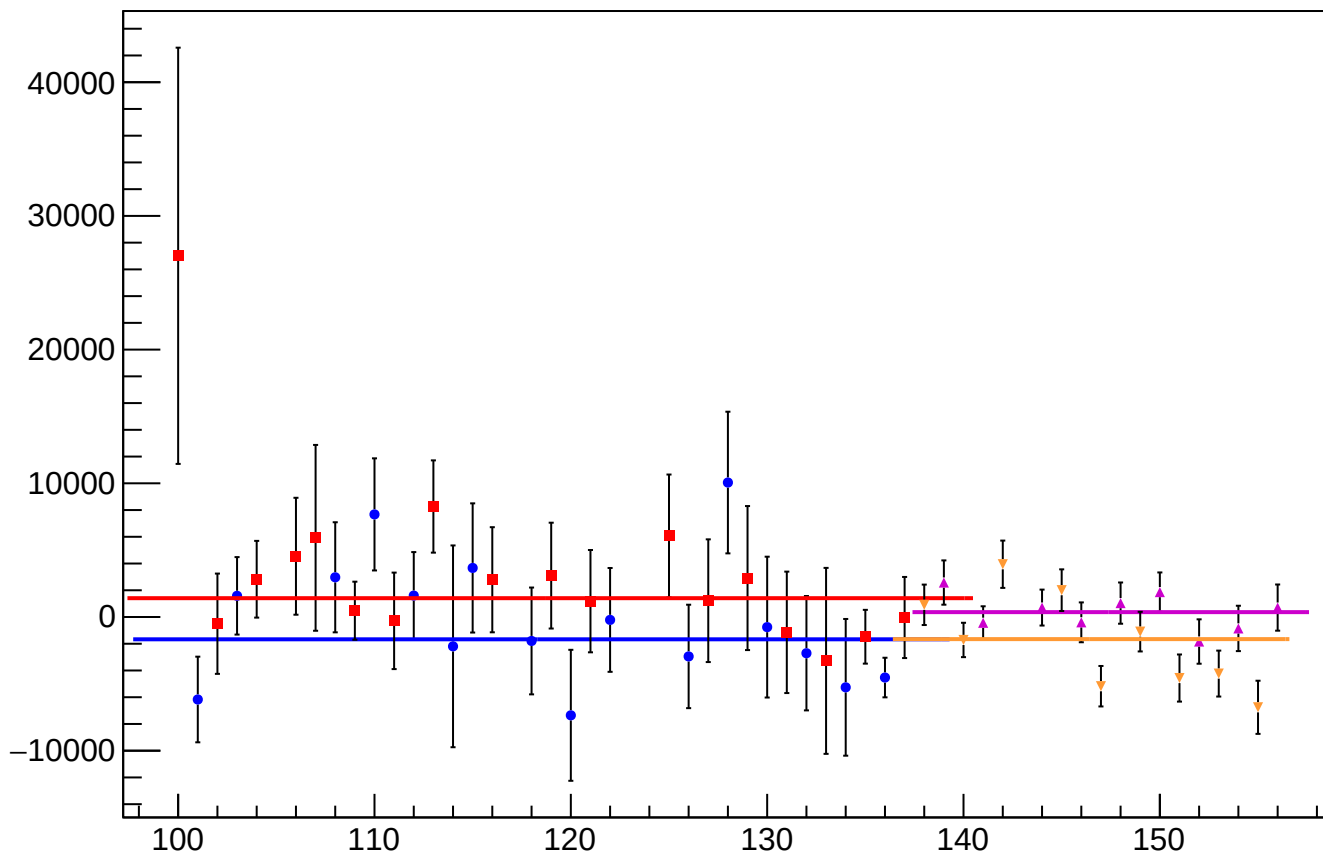
Right: 2105.095+/-0.394 χ^2/NDF : 339871.2/33

In: 2160.635+/-0.395 χ^2/NDF : 228219.8/24

Out: 2150.813+/-0.405 χ^2/NDF : 197142.8/26

All: 2155.839+/-0.283 χ^2/NDF : 425664.2/51

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: -1654.044 $\pm$ 528.446 χ^2 /NDF:35.6/8

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 364.342 $\pm$ 502.799 χ^2 /NDF:6.1/8

Left: -594.686 $\pm$ 364.262 χ^2 /NDF: 49.3/17

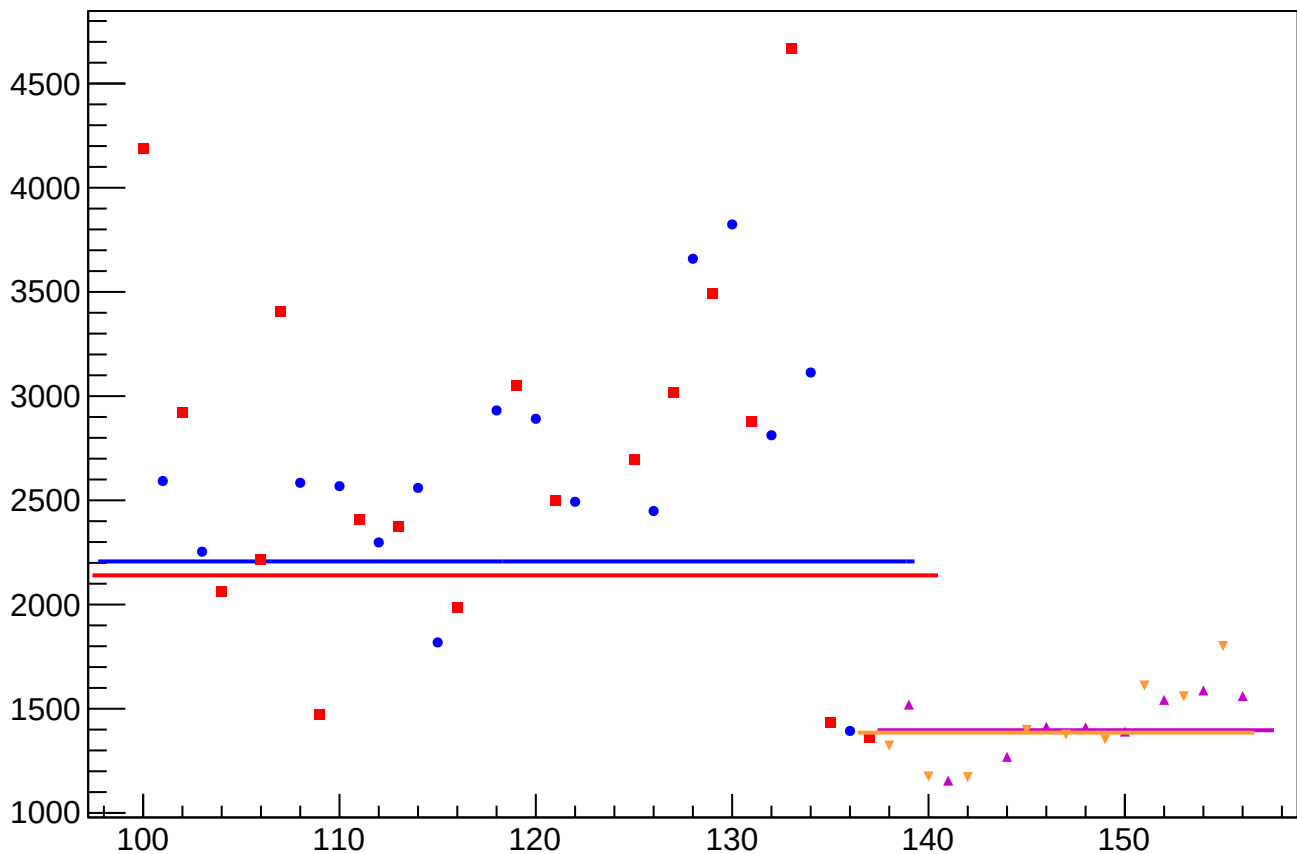
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -151.599 $\pm$ 434.331 χ^2 /NDF:32.7/24

Out: -796.198 $\pm$ 448.352 χ^2 /NDF:57.9/26

All: -463.662 $\pm$ 311.957 χ^2 /NDF: 91.7/51

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: 1385.470 $\pm$ 0.374 χ^2 /NDF: 228327.0/8

Right Out: 2140.060 $\pm$ 0.599 χ^2 /NDF: 1448366.8/17

Left In: 1396.913 $\pm$ 0.356 χ^2 /NDF: 165216.1/8

Left: 1391.476 $\pm$ 0.258 χ^2 /NDF: 394035.4/17

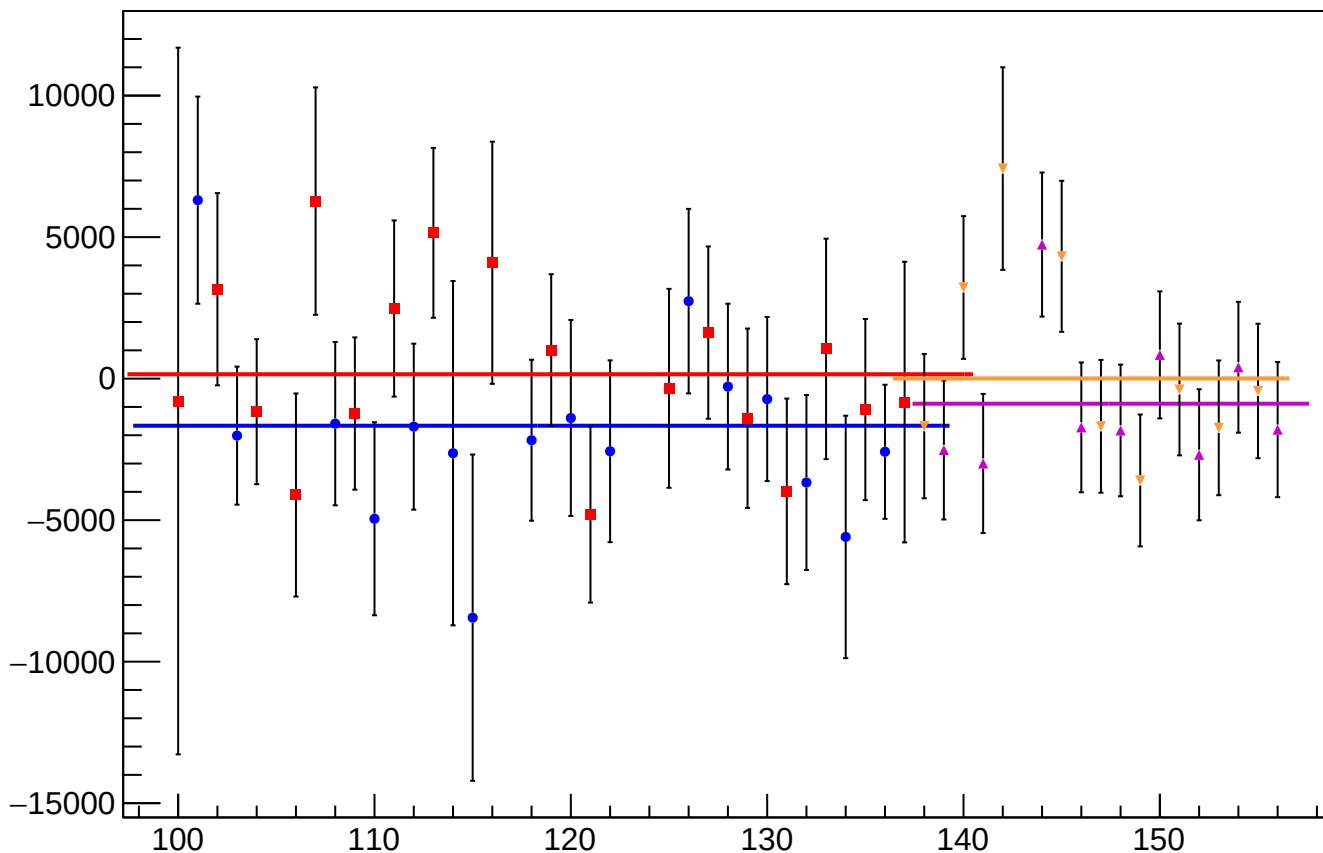
Right: 2172.900 $\pm$ 0.427 χ^2 /NDF: 2703511.1/33

In: 1602.496 $\pm$ 0.307 χ^2 /NDF: 2731635.2/24

Out: 1596.874 $\pm$ 0.317 χ^2 /NDF: 2819183.4/26

All: 1599.774 $\pm$ 0.221 χ^2 /NDF: 5550980.9/51

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231 ± 792.164 $\chi^2/\text{NDF}: 10.8/15$

Left Out: 7.191 ± 835.016 $\chi^2/\text{NDF}: 12.5/8$

Right Out: 155.775 ± 785.481 $\chi^2/\text{NDF}: 14.2/17$

Left In: -885.687 ± 788.424 $\chi^2/\text{NDF}: 8.0/8$

Left: -464.852 ± 573.264 $\chi^2/\text{NDF}: 21.1/17$

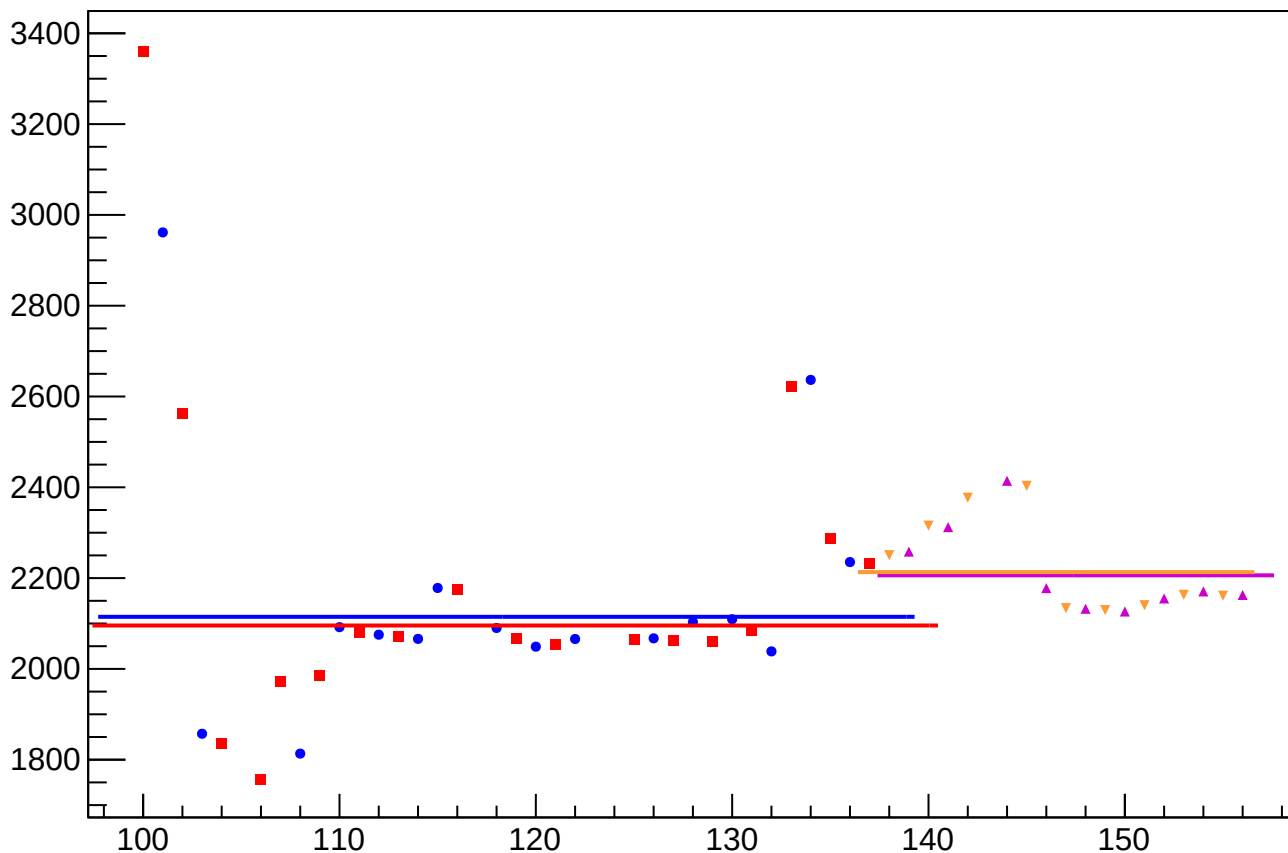
Right: -746.519 ± 557.767 $\chi^2/\text{NDF}: 27.6/33$

In: -1273.117 ± 558.818 $\chi^2/\text{NDF}: 19.3/24$

Out: 86.021 ± 572.130 $\chi^2/\text{NDF}: 26.7/26$

All: -609.544 ± 399.767 $\chi^2/\text{NDF}: 48.9/51$

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: 2213.213+/-0.590 χ^2/NDF : 26730.2/8

Right Out: 2095.597+/-0.555 χ^2/NDF : 149360.5/17

Left In: 2206.083+/-0.558 χ^2/NDF : 24944.4/8

Left: 2209.444+/-0.405 χ^2/NDF : 51751.7/17

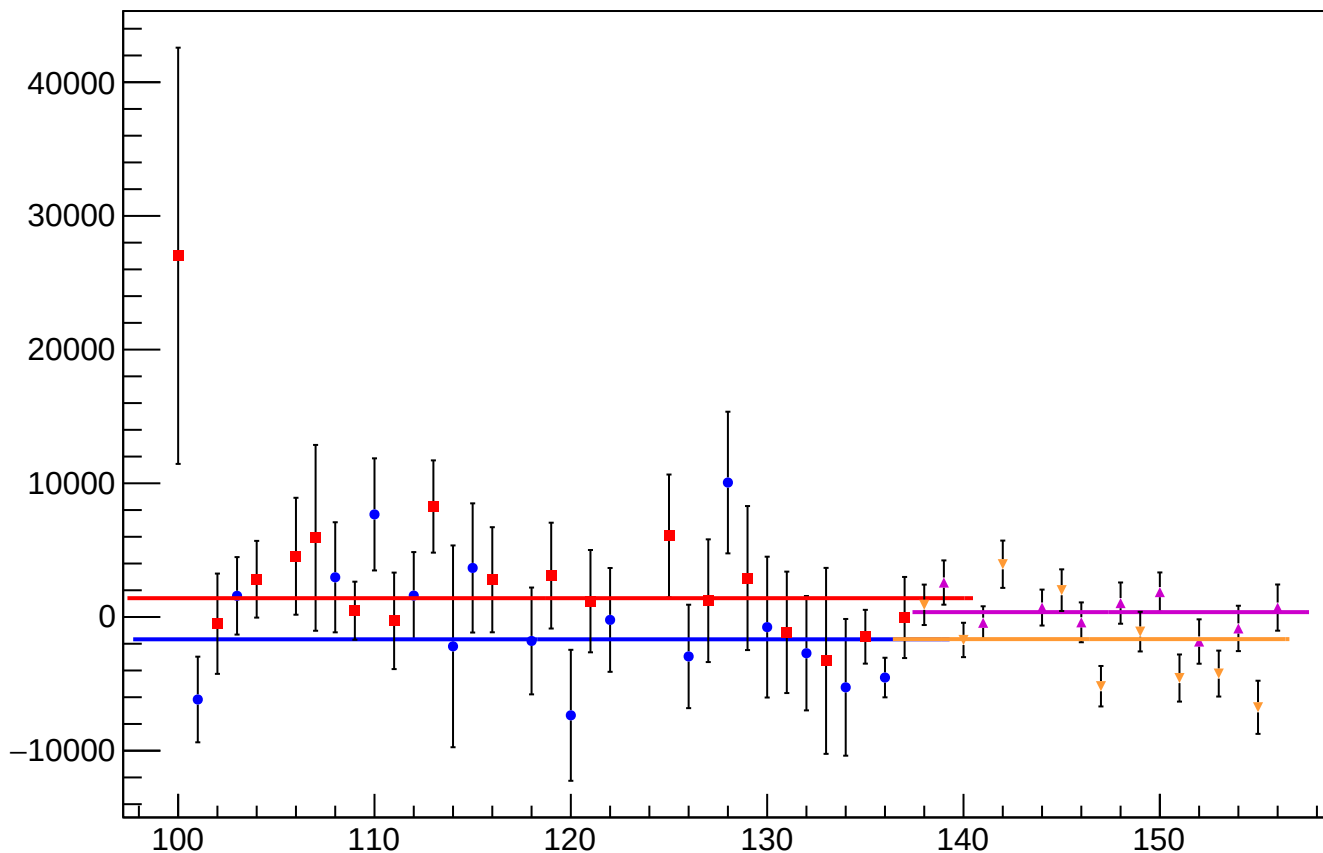
Right: 2105.095+/-0.394 χ^2/NDF : 339871.2/33

In: 2160.635+/-0.395 χ^2/NDF : 228219.8/24

Out: 2150.813+/-0.405 χ^2/NDF : 197142.8/26

All: 2155.839+/-0.283 χ^2/NDF : 425664.2/51

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: -1654.044 $\pm$ 528.446 χ^2 /NDF:35.6/8

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 364.342 $\pm$ 502.799 χ^2 /NDF:6.1/8

Left: -594.686 $\pm$ 364.262 χ^2 /NDF: 49.3/17

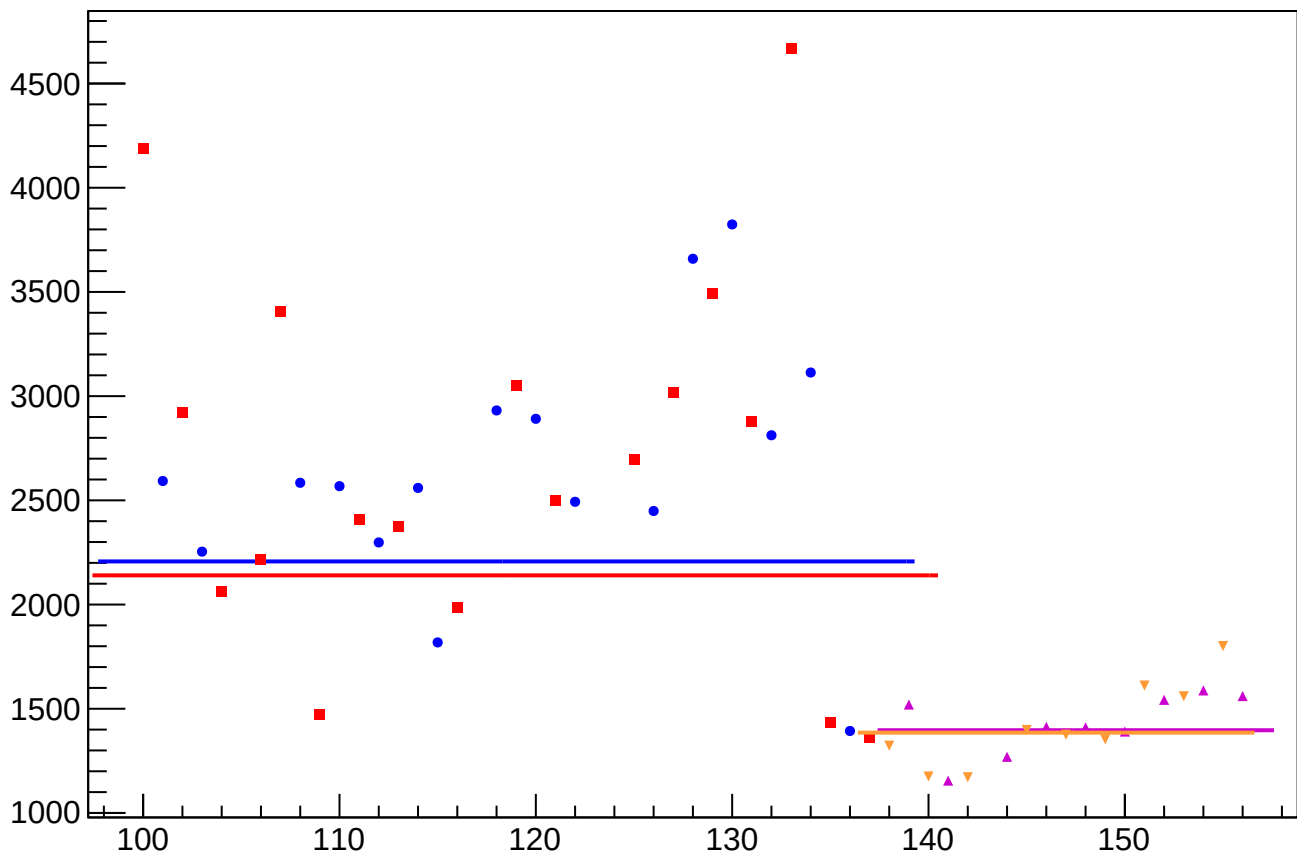
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -151.599 $\pm$ 434.331 χ^2 /NDF:32.7/24

Out: -796.198 $\pm$ 448.352 χ^2 /NDF:57.9/26

All: -463.662 $\pm$ 311.957 χ^2 /NDF: 91.7/51

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2206.918 ± 0.610 χ^2/NDF : 1249024.4/15

Left Out: 1385.470 ± 0.374 χ^2/NDF : 228327.0/8

Right Out: 2140.060 ± 0.599 χ^2/NDF : 1448366.8/17

Left In: 1396.913 ± 0.356 χ^2/NDF : 165216.1/8

Left: 1391.476 ± 0.258 χ^2/NDF : 394035.4/17

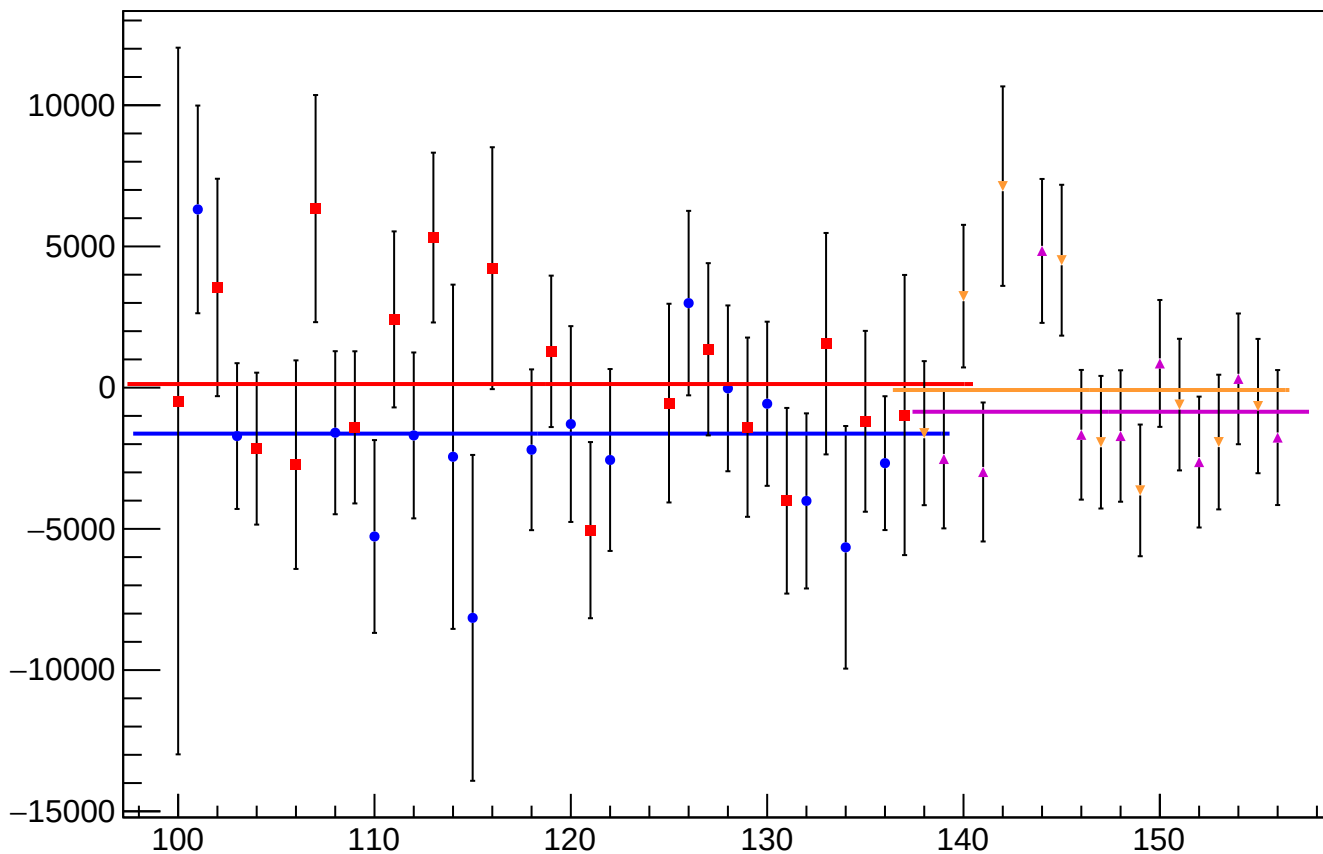
Right: 2172.900 ± 0.427 χ^2/NDF : 2703511.1/33

In: 1602.496 ± 0.307 χ^2/NDF : 2731635.2/24

Out: 1596.874 ± 0.317 χ^2/NDF : 2819183.4/26

All: 1599.774 ± 0.221 χ^2/NDF : 5550980.9/51

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: -82.951 $\pm$ 835.260 χ^2 /NDF:12.9/8

Right Out: 128.099 $\pm$ 795.899 χ^2 /NDF: 14.6/17

Left In: -853.442 $\pm$ 789.261 χ^2 /NDF:8.0/8

Left: -489.996 $\pm$ 573.665 χ^2 /NDF: 21.4/17

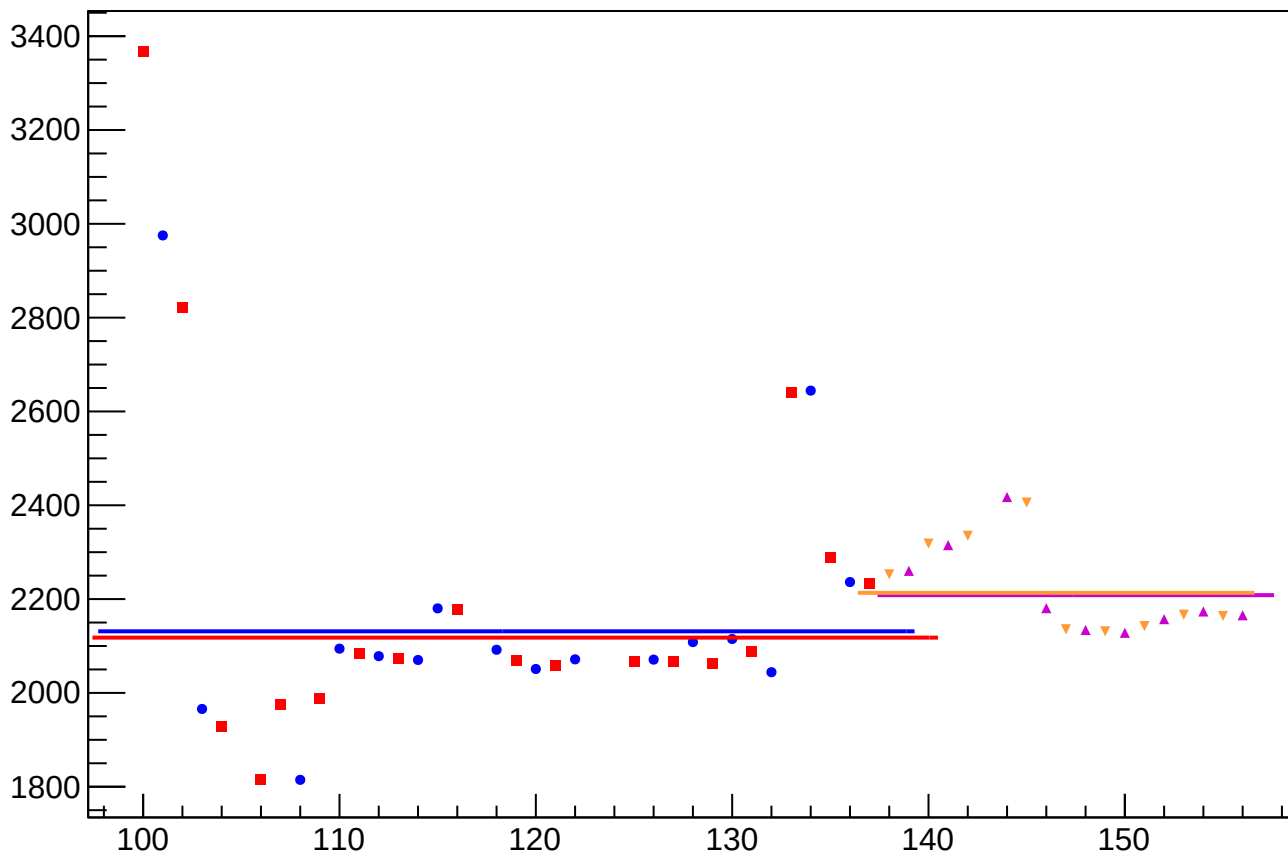
Right: -747.490 $\pm$ 563.515 χ^2 /NDF: 28.3/33

In: -1236.292 $\pm$ 561.144 χ^2 /NDF:19.8/24

Out: 27.664 $\pm$ 576.198 χ^2 /NDF:27.5/26

All: -621.041 $\pm$ 402.006 χ^2 /NDF: 49.8/51

dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2131.298+/-0.564 χ^2/NDF : 175943.3/15

Left Out: 2213.375+/-0.591 χ^2/NDF : 24848.0/8

Right Out: 2117.868+/-0.563 χ^2/NDF : 163622.7/17

Left In: 2208.407+/-0.558 χ^2/NDF : 25081.6/8

Left: 2210.750+/-0.406 χ^2/NDF : 49967.0/17

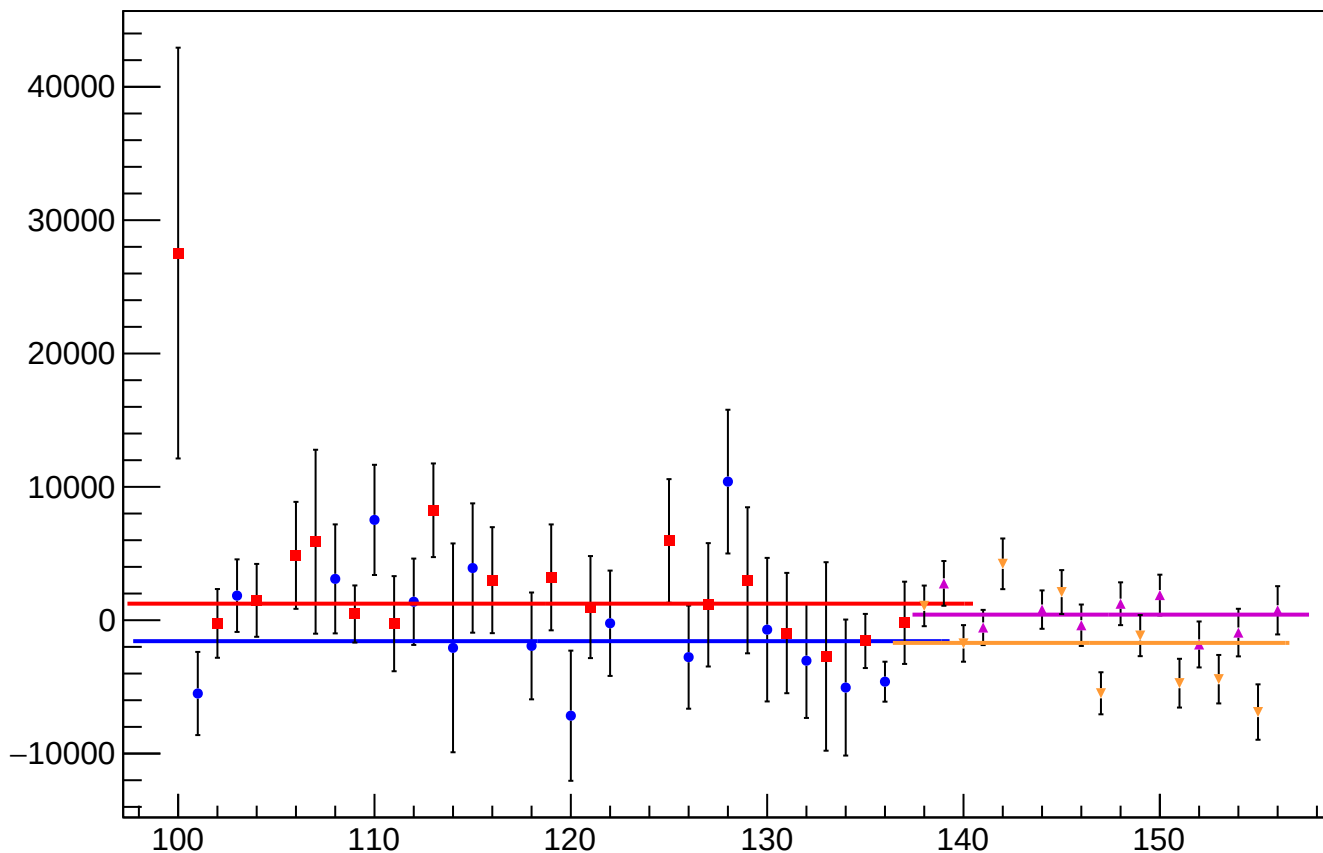
Right: 2124.565+/-0.398 χ^2/NDF : 339850.1/33

In: 2170.275+/-0.397 χ^2/NDF : 210464.9/24

Out: 2163.318+/-0.407 χ^2/NDF : 202176.2/26

All: 2166.889+/-0.284 χ^2/NDF : 412790.8/51

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1571.073+/-859.754 χ^2/NDF : 22.6/15

Left Out: -1701.226+/-553.695 χ^2/NDF : 35.5/8

Right Out: 1241.008+/-819.775 χ^2/NDF : 13.1/17

Left In: 418.436+/-527.104 χ^2/NDF : 6.3/8

Left: -589.276+/-381.774 χ^2/NDF : 49.4/17

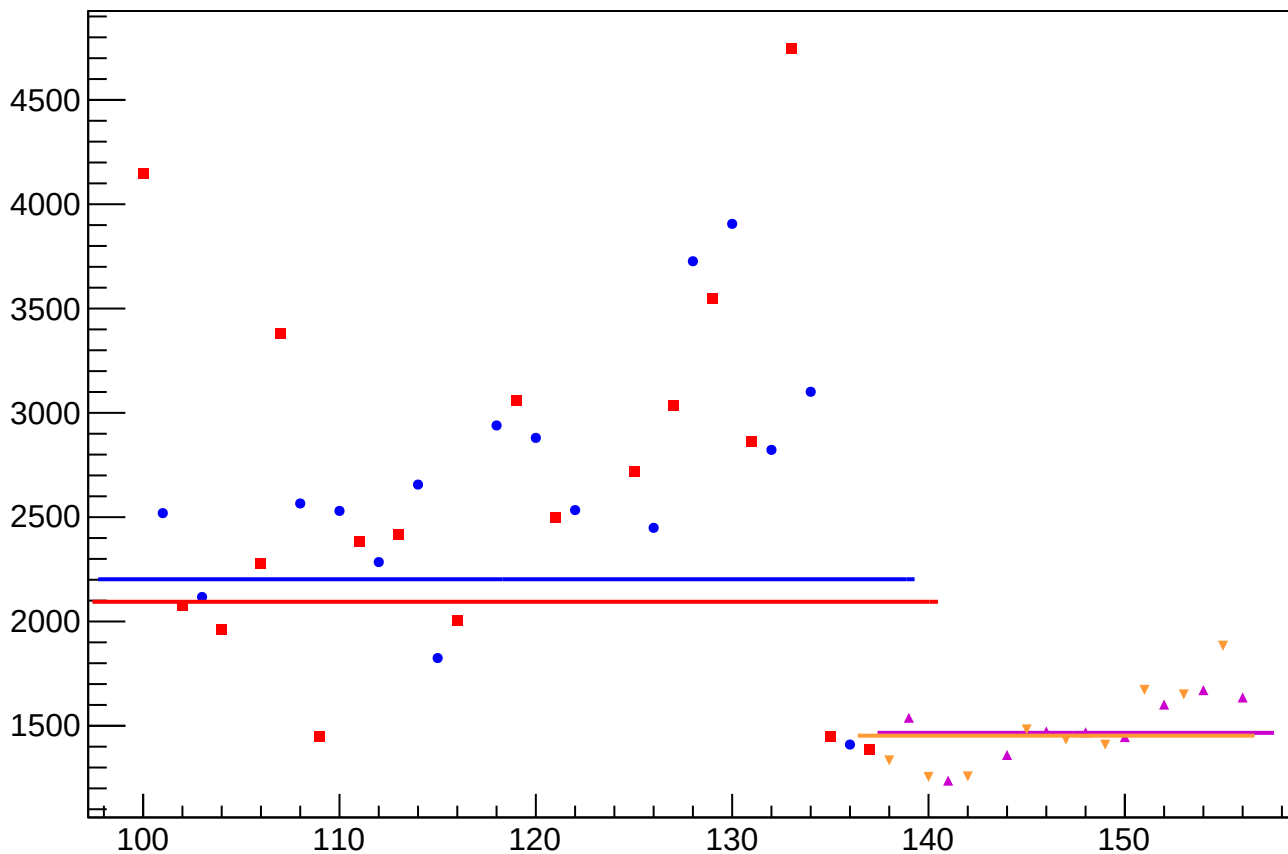
Right: -98.133+/-593.299 χ^2/NDF : 41.3/33

In: -125.079+/-449.373 χ^2/NDF : 32.8/24

Out: -779.484+/-458.840 χ^2/NDF : 57.4/26

All: -445.461+/-321.049 χ^2/NDF : 91.2/51

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: 1452.764 ± 0.392 χ^2/NDF : 215789.1/8

Right Out: 2094.445 ± 0.580 χ^2/NDF : 1373676.8/17

Left In: 1466.276 ± 0.373 χ^2/NDF : 131399.1/8

Left: 1459.852 ± 0.270 χ^2/NDF : 347813.0/17

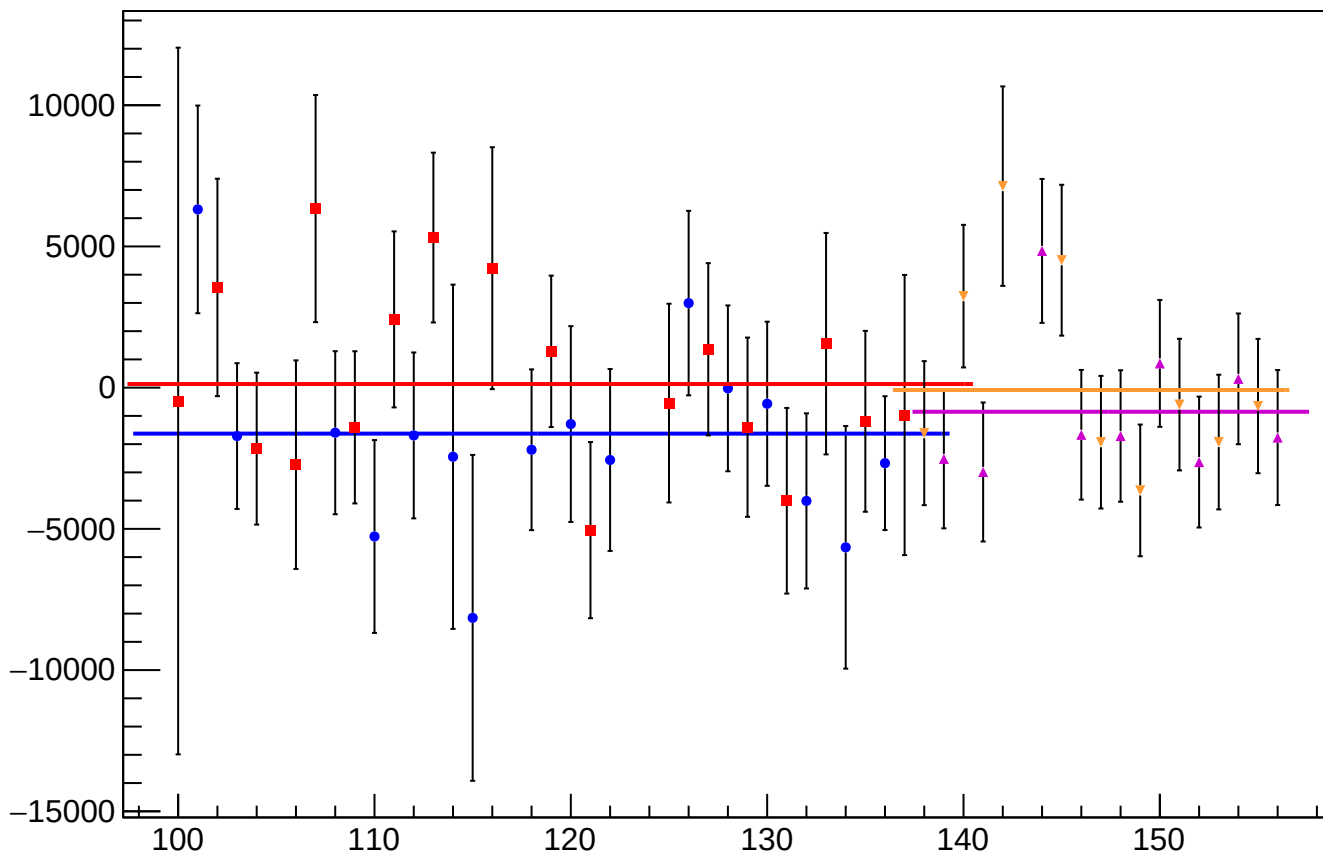
Right: 2145.844 ± 0.420 χ^2/NDF : 2613152.0/33

In: 1667.372 ± 0.318 χ^2/NDF : 2419926.6/24

Out: 1653.790 ± 0.324 χ^2/NDF : 2430974.4/26

All: 1660.723 ± 0.227 χ^2/NDF : 4851795.6/51

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: -82.946 $\pm$ 835.260 χ^2 /NDF:12.9/8

Right Out: 128.093 $\pm$ 795.899 χ^2 /NDF: 14.6/17

Left In: -853.436 $\pm$ 789.261 χ^2 /NDF:8.0/8

Left: -489.990 $\pm$ 573.665 χ^2 /NDF: 21.4/17

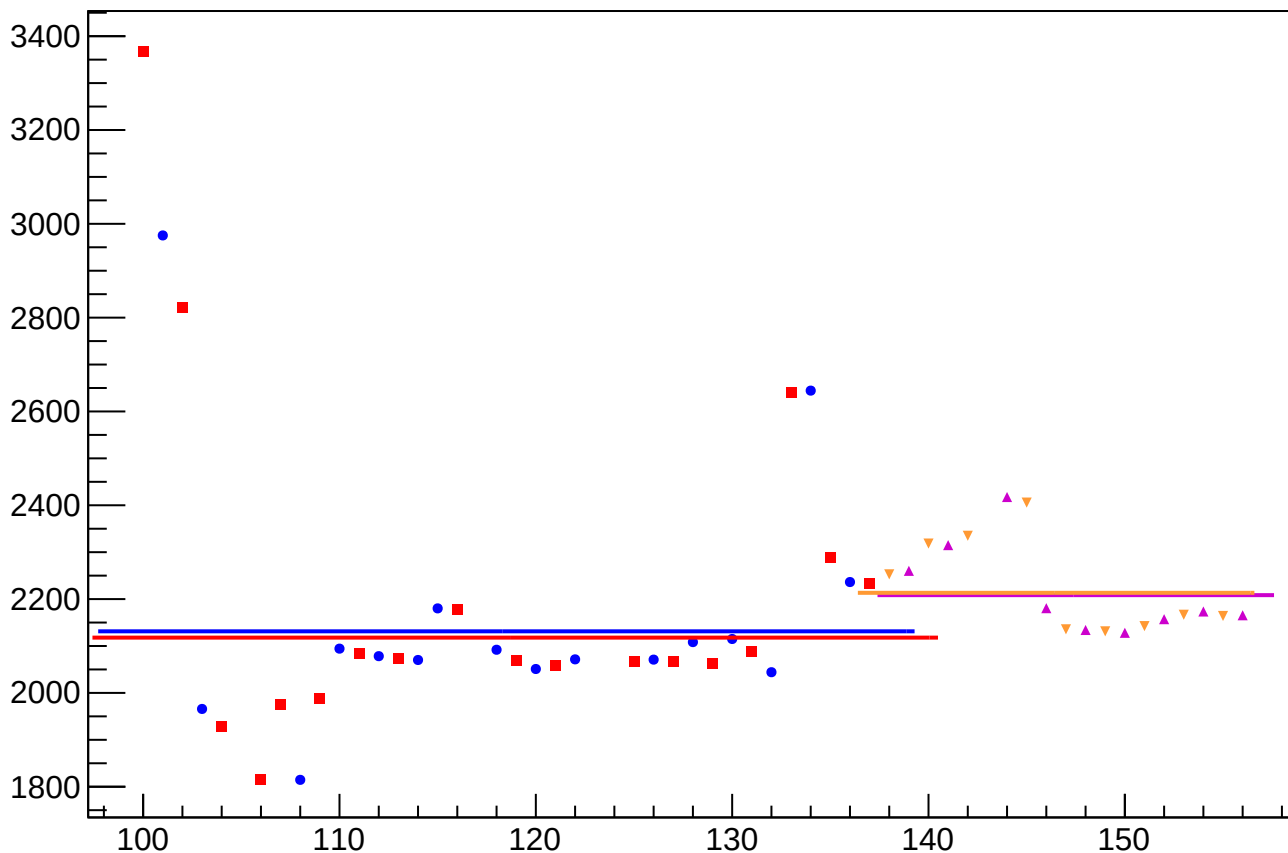
Right: -747.494 $\pm$ 563.515 χ^2 /NDF: 28.3/33

In: -1236.290 $\pm$ 561.144 χ^2 /NDF:19.8/24

Out: 27.663 $\pm$ 576.198 χ^2 /NDF:27.5/26

All: -621.041 $\pm$ 402.006 χ^2 /NDF: 49.8/51

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2131.298+/-0.564 χ^2/NDF : 175943.3/15

Left Out: 2213.375+/-0.591 χ^2/NDF : 24848.1/8

Right Out: 2117.868+/-0.563 χ^2/NDF : 163622.6/17

Left In: 2208.407+/-0.558 χ^2/NDF : 25081.6/8

Left: 2210.750+/-0.406 χ^2/NDF : 49967.1/17

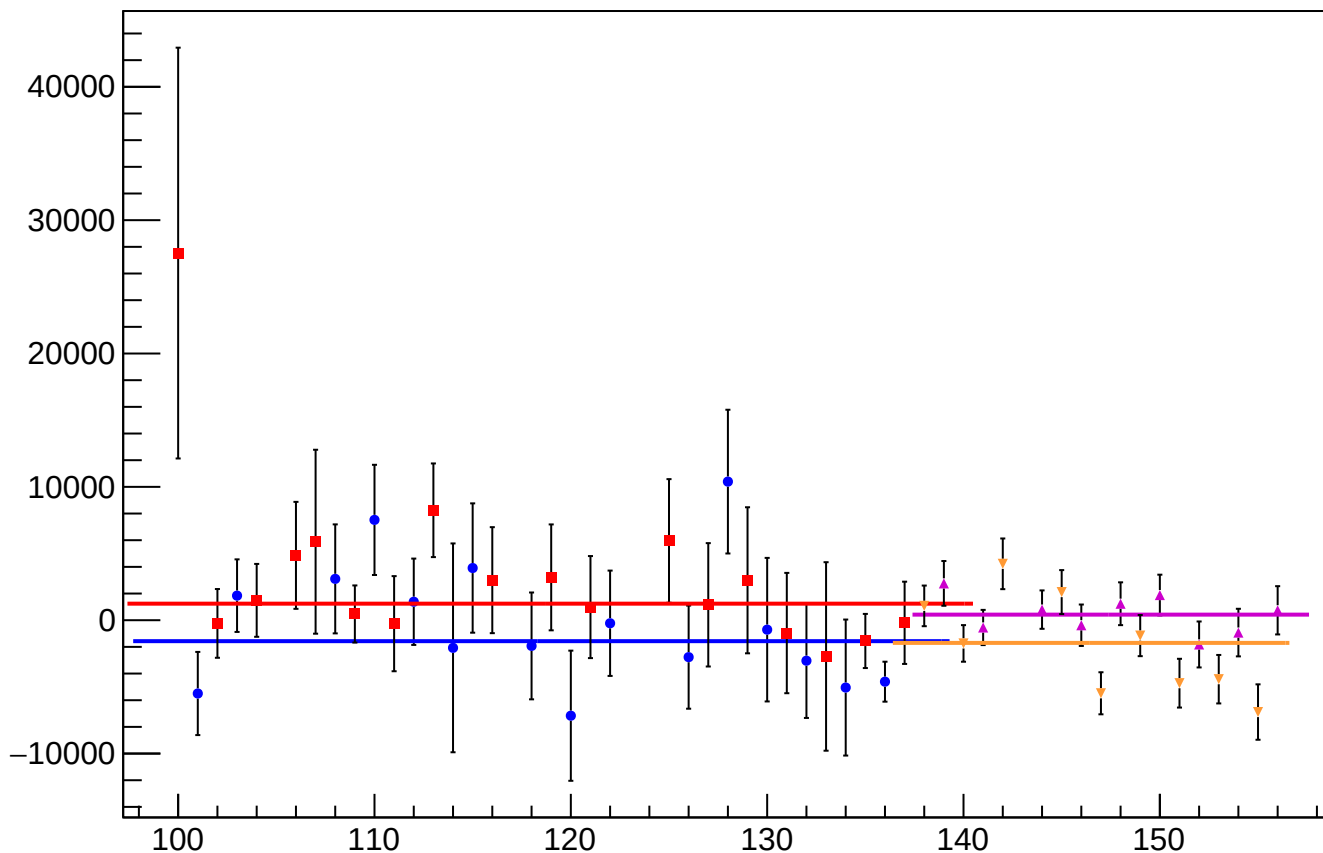
Right: 2124.565+/-0.398 χ^2/NDF : 339849.9/33

In: 2170.275+/-0.397 χ^2/NDF : 210464.9/24

Out: 2163.318+/-0.407 χ^2/NDF : 202176.2/26

All: 2166.889+/-0.284 χ^2/NDF : 412790.8/51

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: -1701.241 $\pm$ 553.697 χ^2 /NDF:35.5/8

Right Out: 1241.023 $\pm$ 819.778 χ^2 /NDF: 13.1/17

Left In: 418.435 $\pm$ 527.104 χ^2 /NDF:6.3/8

Left: -589.281 $\pm$ 381.774 χ^2 /NDF: 49.4/17

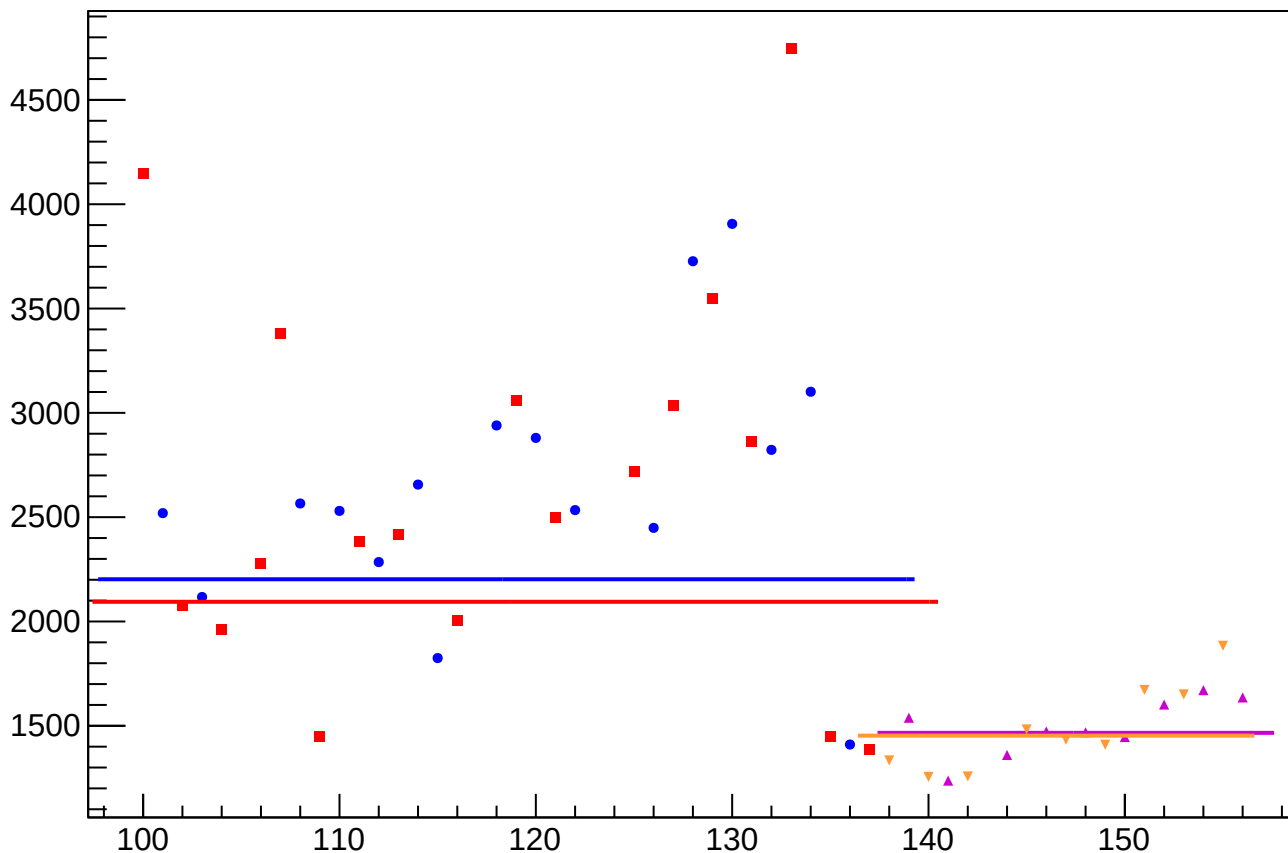
Right: -98.119 $\pm$ 593.301 χ^2 /NDF: 41.3/33

In: -125.073 $\pm$ 449.373 χ^2 /NDF:32.8/24

Out: -779.491 $\pm$ 458.841 χ^2 /NDF:57.4/26

All: -445.461 $\pm$ 321.050 χ^2 /NDF: 91.2/51

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: 1452.769 ± 0.392 χ^2/NDF : 215778.8/8

Right Out: 2094.457 ± 0.580 χ^2/NDF : 1373629.6/17

Left In: 1466.276 ± 0.373 χ^2/NDF : 131399.0/8

Left: 1459.855 ± 0.270 χ^2/NDF : 347802.2/17

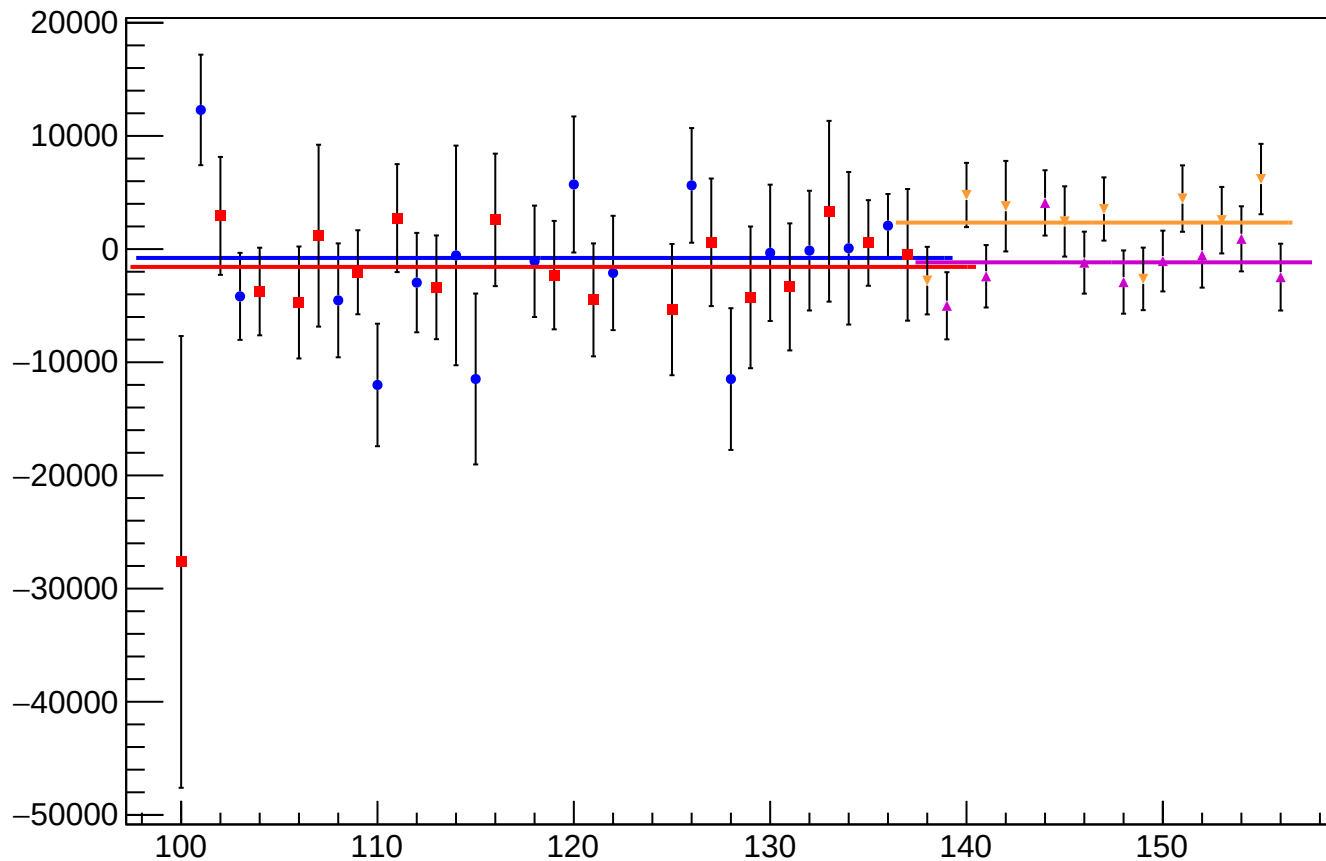
Right: 2145.856 ± 0.420 χ^2/NDF : 2613045.0/33

In: 1667.375 ± 0.318 χ^2/NDF : 2419896.1/24

Out: 1653.797 ± 0.324 χ^2/NDF : 2430930.2/26

All: 1660.727 ± 0.227 χ^2/NDF : 4851720.3/51

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: 2341.613+/-1001.517 χ^2/NDF : 9.3/8

Right Out: -1574.673+/-1218.961 χ^2/NDF : 6.7/17

Left In: -1170.236+/-943.452 χ^2/NDF : 6.3/8

Left: 480.939+/-686.731 χ^2/NDF : 22.2/17

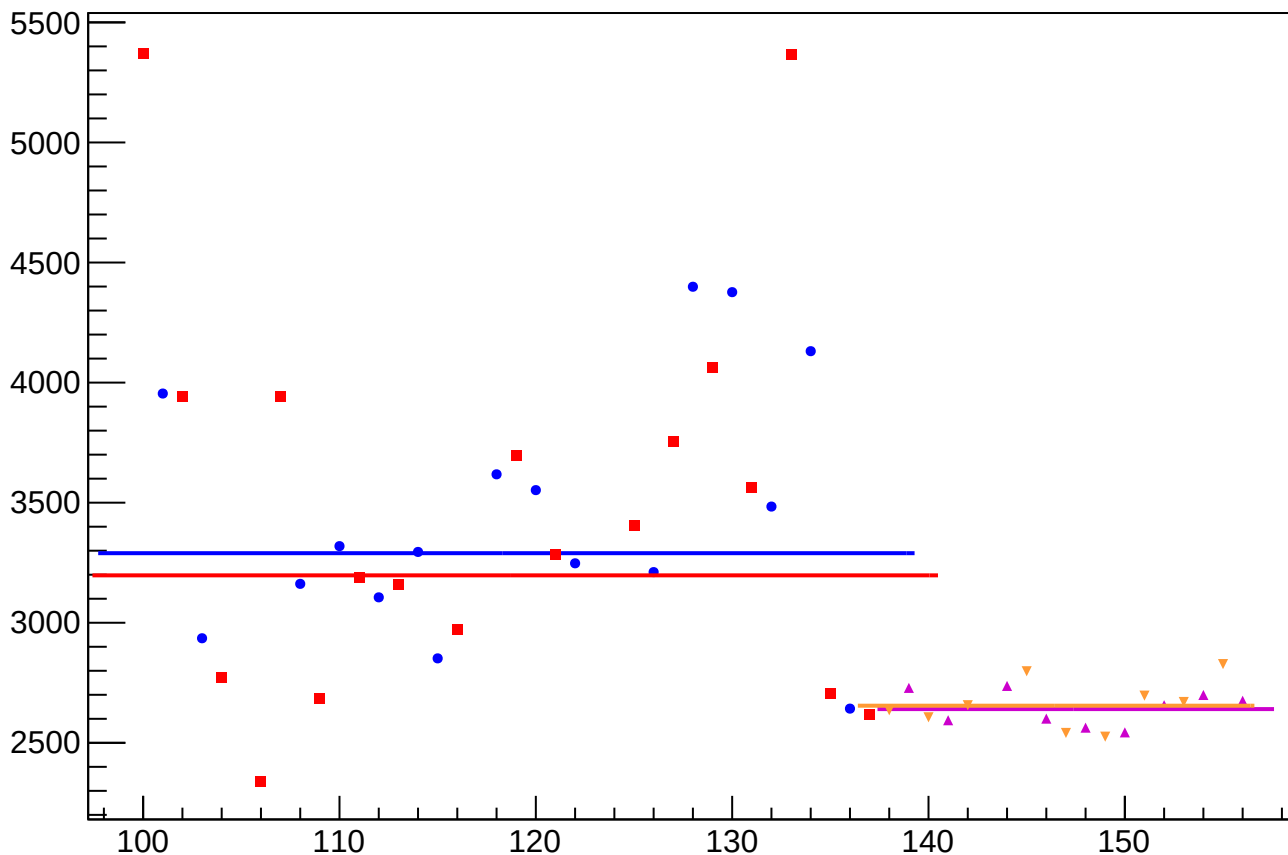
Right: -1185.478+/-869.867 χ^2/NDF : 28.8/33

In: -1028.001+/-751.213 χ^2/NDF : 28.3/24

Out: 763.336+/-773.827 χ^2/NDF : 22.2/26

All: -158.890+/-539.005 χ^2/NDF : 53.3/51

asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3289.690+/-0.878 χ^2/NDF : 347594.0/15

Left Out: 2654.617+/-0.708 χ^2/NDF : 19249.9/8

Right Out: 3197.375+/-0.862 χ^2/NDF : 499934.1/17

Left In: 2640.496+/-0.667 χ^2/NDF : 10309.7/8

Left: 2647.135+/-0.486 χ^2/NDF : 29770.3/17

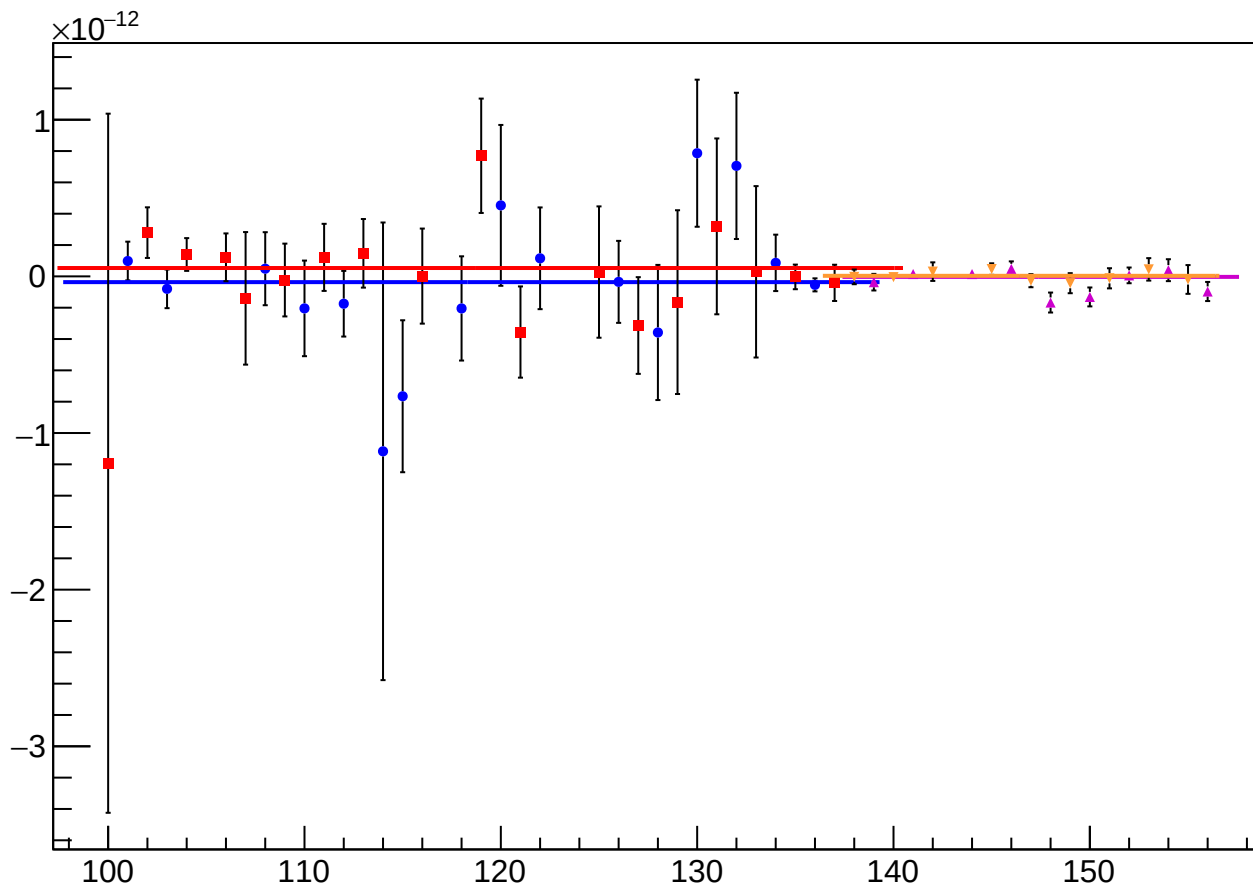
Right: 3242.678+/-0.615 χ^2/NDF : 853157.4/33

In: 2878.103+/-0.531 χ^2/NDF : 704500.8/24

Out: 2873.354+/-0.547 χ^2/NDF : 755908.6/26

All: 2875.799+/-0.381 χ^2/NDF : 1460448.1/51

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean 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 : 3.2/8

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/17

Left In: -0.000+/-0.000 χ^2/NDF : 16.8/8

Left: -0.000+/-0.000 χ^2/NDF : 20.1/17

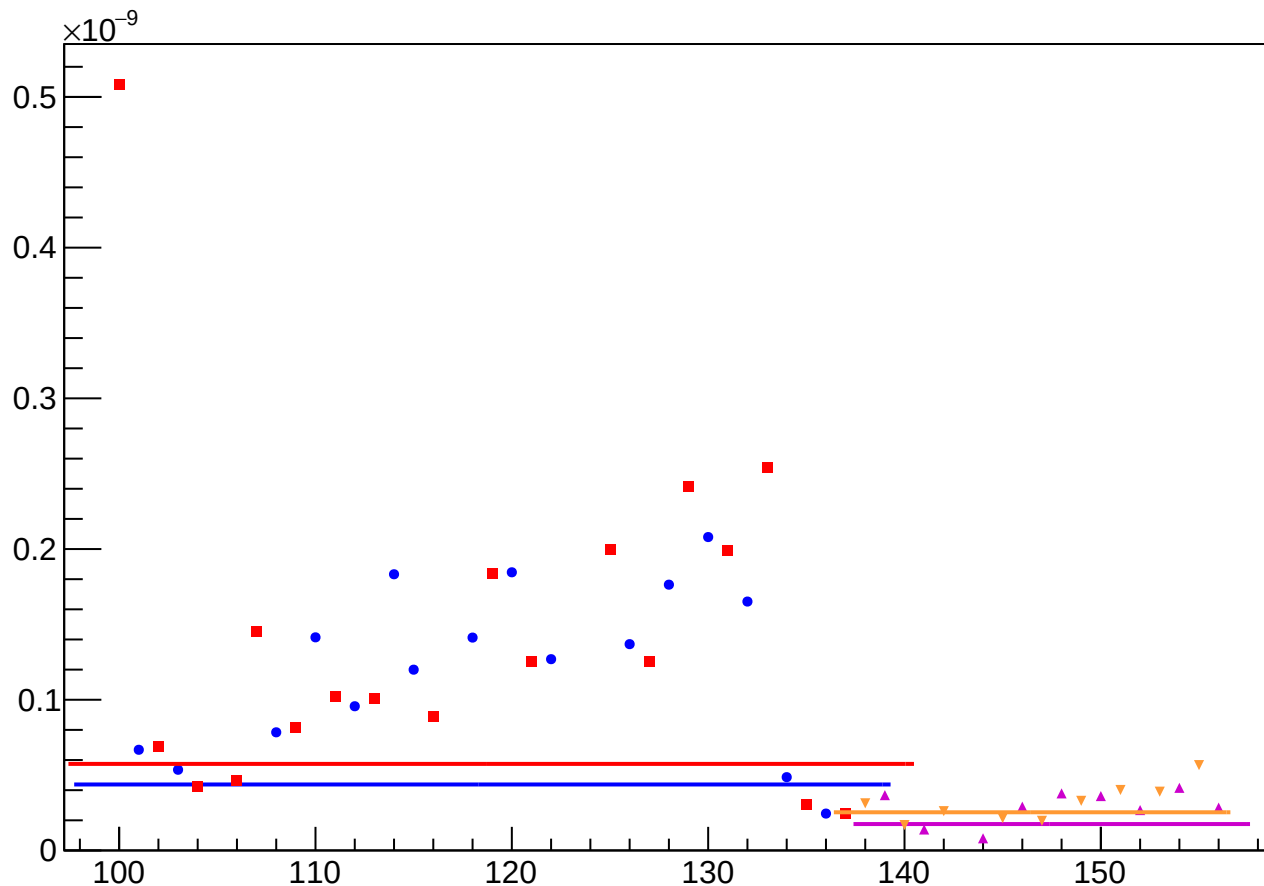
Right: -0.000+/-0.000 χ^2/NDF : 28.4/33

In: -0.000+/-0.000 χ^2/NDF : 30.8/24

Out: 0.000+/-0.000 χ^2/NDF : 16.9/26

All: -0.000+/-0.000 χ^2/NDF : 48.5/51

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 : 676840.7/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2086696.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 1723888.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2695661.9/17

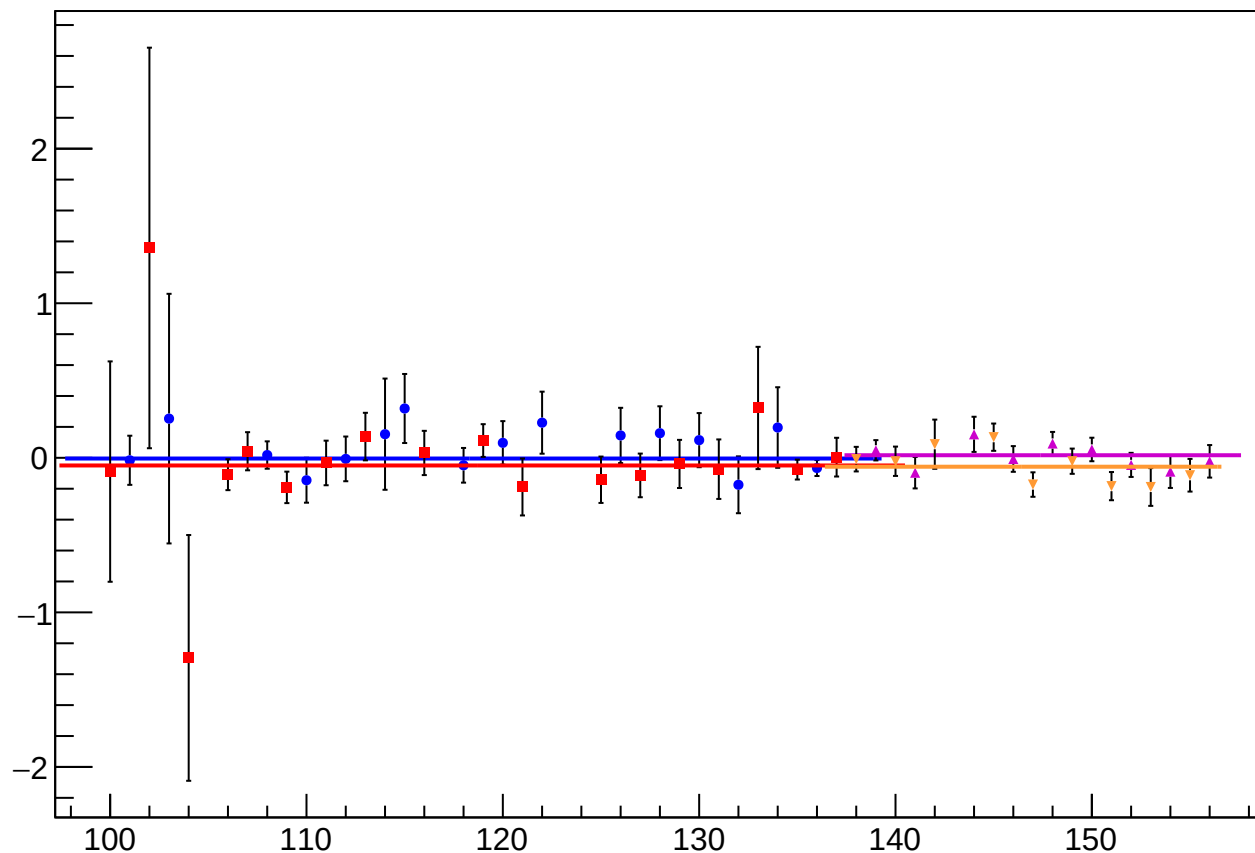
Right: 0.000+/-0.000 χ^2/NDF : 4436407.3/33

In: 0.000+/-0.000 χ^2/NDF : 4984020.0/24

Out: 0.000+/-0.000 χ^2/NDF : 3727593.9/26

All: 0.000+/-0.000 χ^2/NDF : 9122243.5/51

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: -0.058 ± 0.031 $\chi^2/\text{NDF}: 11.7/8$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.017 ± 0.028 $\chi^2/\text{NDF}: 6.0/8$

Left: -0.017 ± 0.021 $\chi^2/\text{NDF}: 20.8/17$

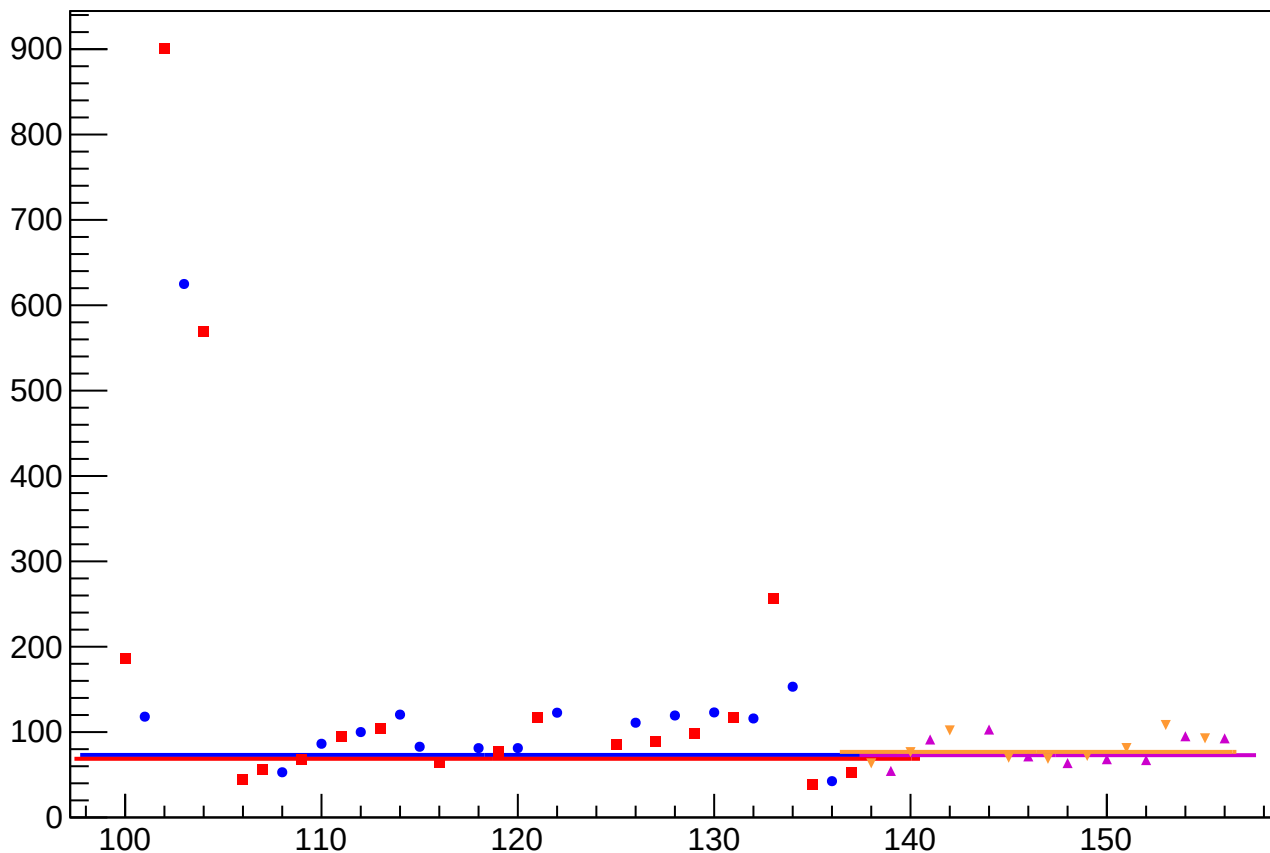
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 16.6/24$

Out: -0.054 ± 0.022 $\chi^2/\text{NDF}: 24.8/26$

All: -0.022 ± 0.015 $\chi^2/\text{NDF}: 45.3/51$

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: 76.810+/-0.022 χ^2/NDF : 329943.1/8

Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17

Left In: 72.956+/-0.020 χ^2/NDF : 570492.7/8

Left: 74.694+/-0.015 χ^2/NDF : 917121.8/17

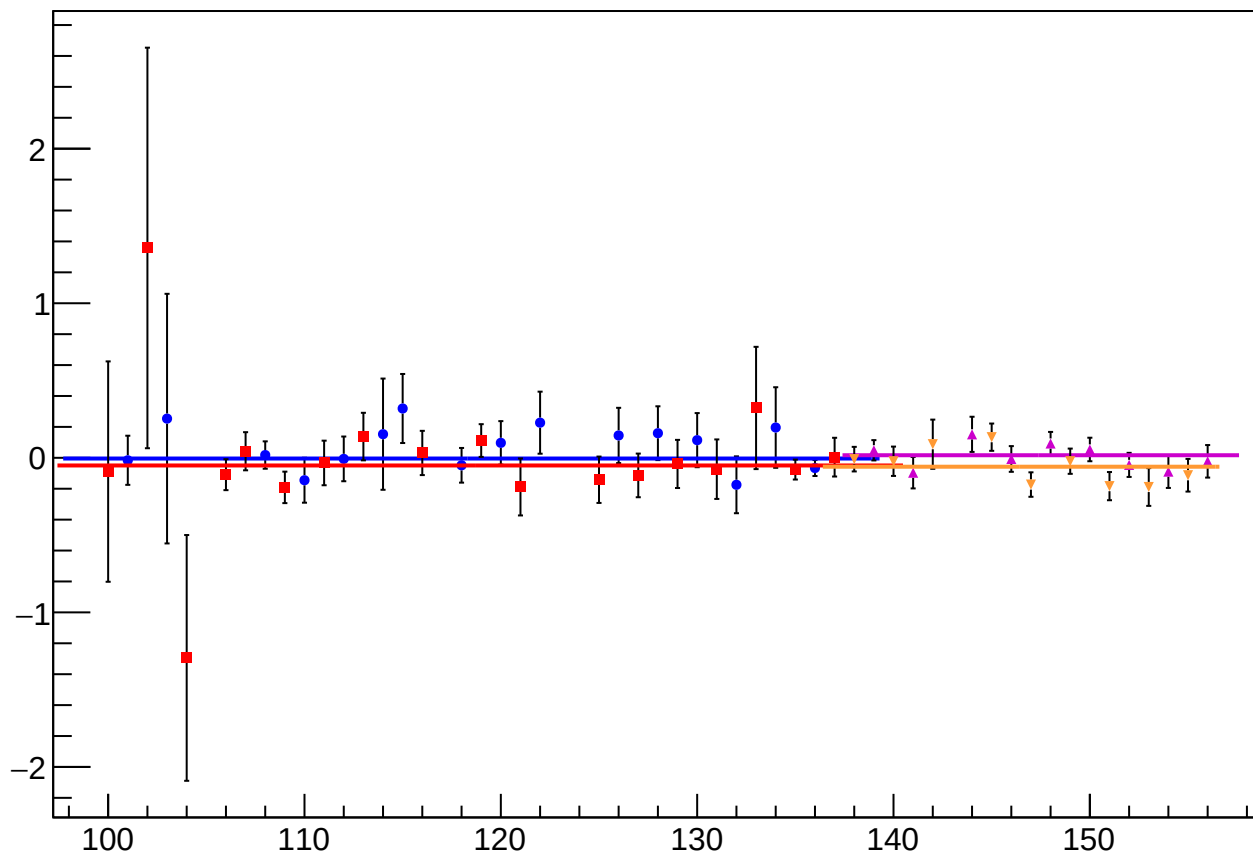
Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33

In: 73.078+/-0.015 χ^2/NDF : 3425178.0/24

Out: 72.819+/-0.016 χ^2/NDF : 3727747.3/26

All: 72.954+/-0.011 χ^2/NDF : 7153067.0/51

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: -0.058 ± 0.031 $\chi^2/\text{NDF}: 11.7/8$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.017 ± 0.028 $\chi^2/\text{NDF}: 6.0/8$

Left: -0.017 ± 0.021 $\chi^2/\text{NDF}: 20.8/17$

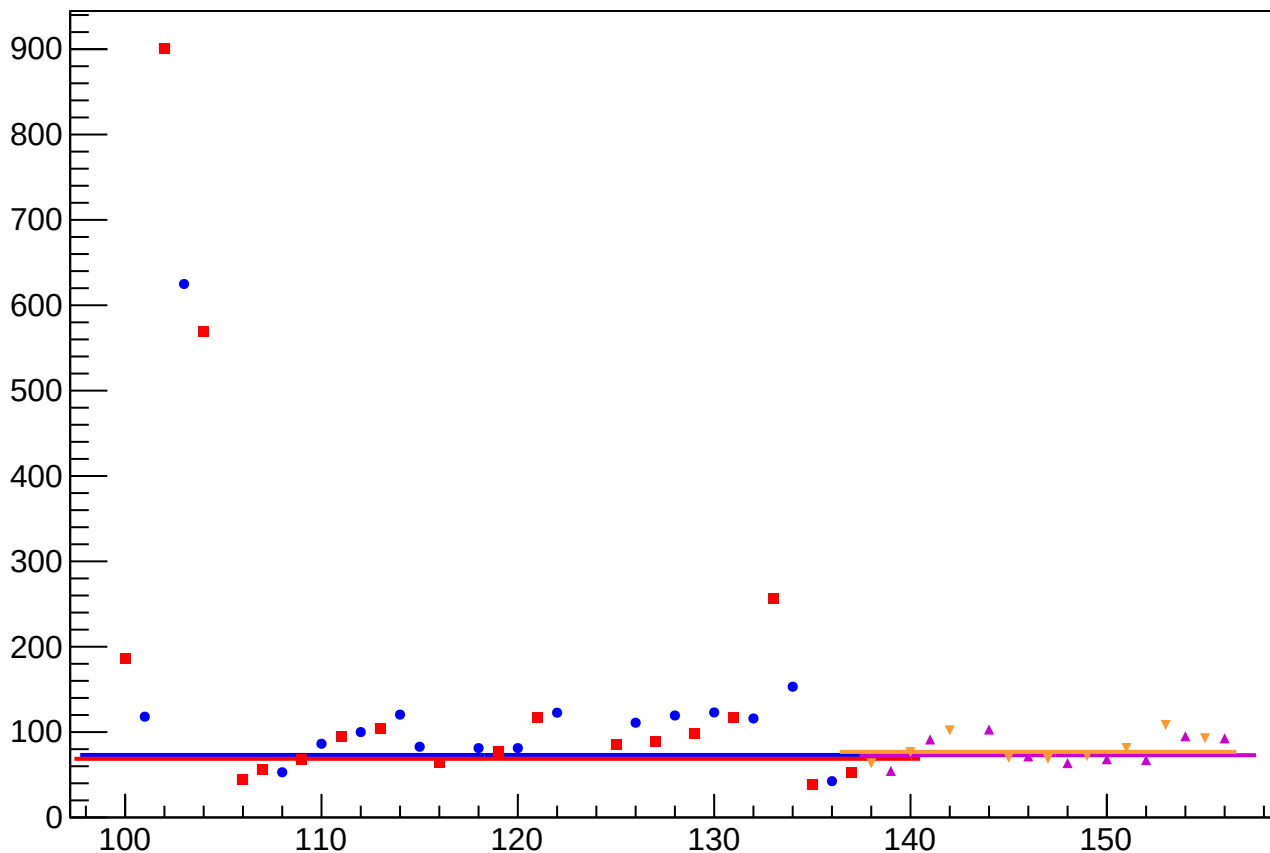
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 16.6/24$

Out: -0.054 ± 0.022 $\chi^2/\text{NDF}: 24.8/26$

All: -0.022 ± 0.015 $\chi^2/\text{NDF}: 45.3/51$

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: 76.810+/-0.022 χ^2/NDF : 329943.1/8

Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17

Left In: 72.956+/-0.020 χ^2/NDF : 570492.7/8

Left: 74.694+/-0.015 χ^2/NDF : 917121.8/17

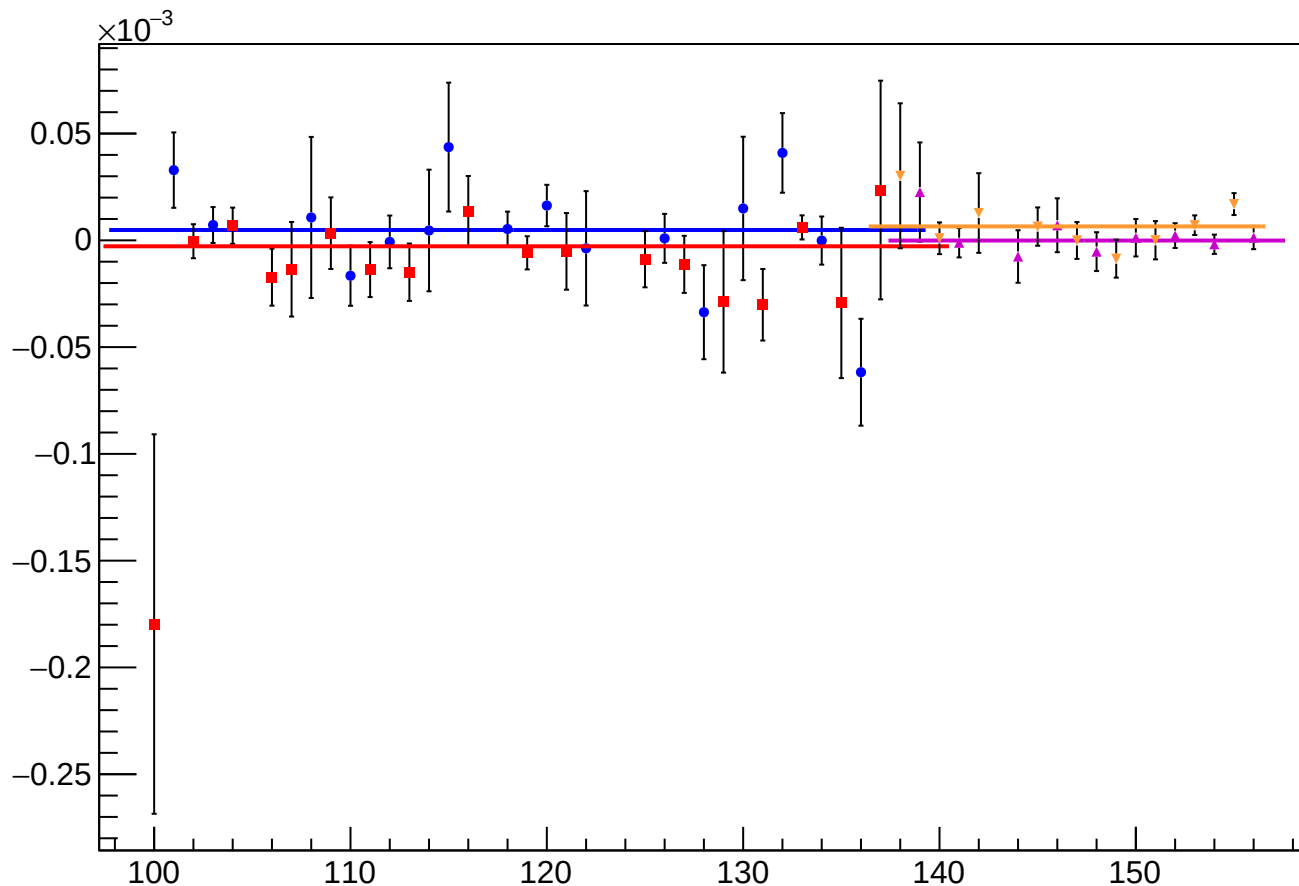
Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33

In: 73.078+/-0.015 χ^2/NDF : 3425178.0/24

Out: 72.819+/-0.016 χ^2/NDF : 3727747.3/26

All: 72.954+/-0.011 χ^2/NDF : 7153067.0/51

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 22.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.3/8

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.8/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 2.4/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.3/17

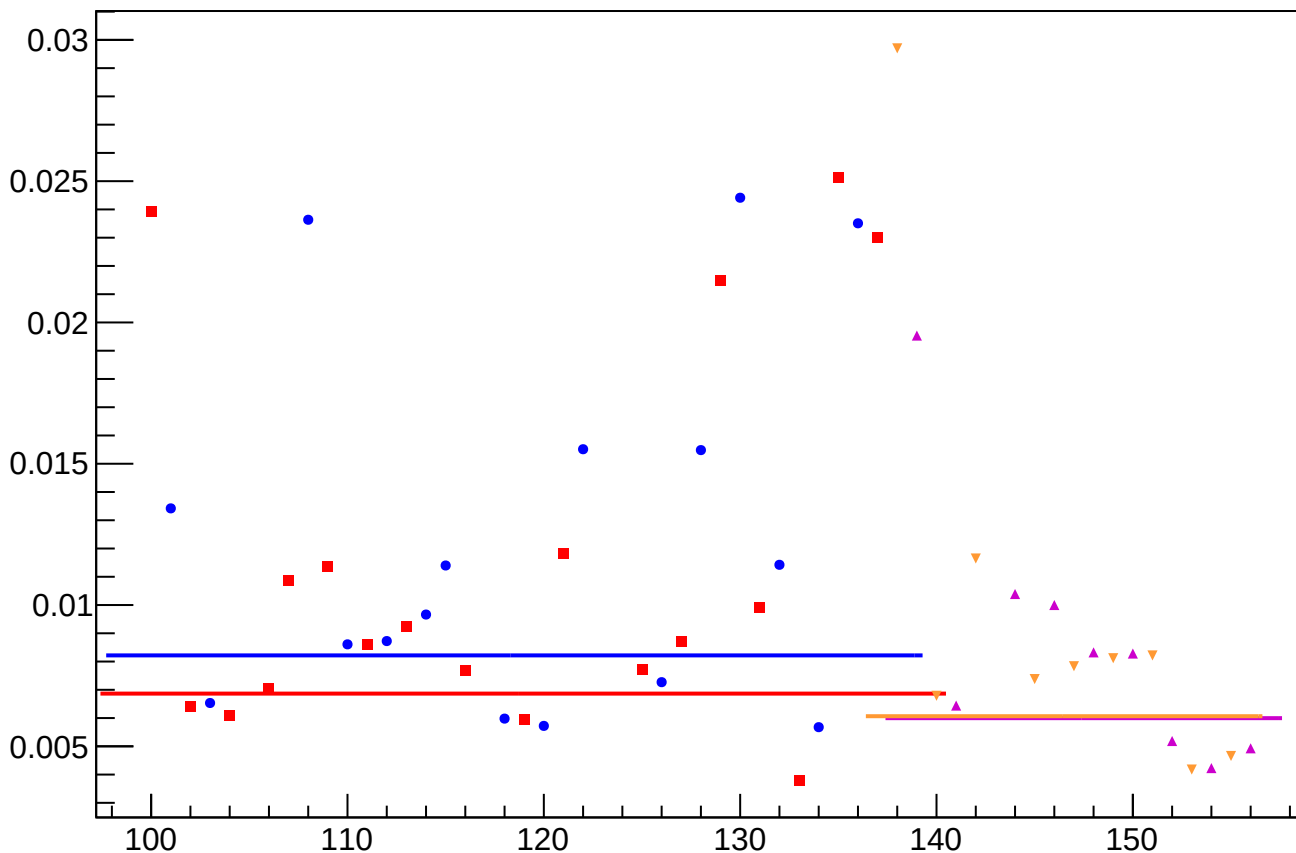
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 42.2/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.3/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 32.1/26

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 58.6/51

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: 0.006+/-0.000 χ^2/NDF :2004384.7/8

Right Out: 0.007+/-0.000 χ^2/NDF : 2426444.0/17

Left In: 0.006+/-0.000 χ^2/NDF :1834091.0/8

Left: 0.006+/-0.000 χ^2/NDF : 3839263.0/17

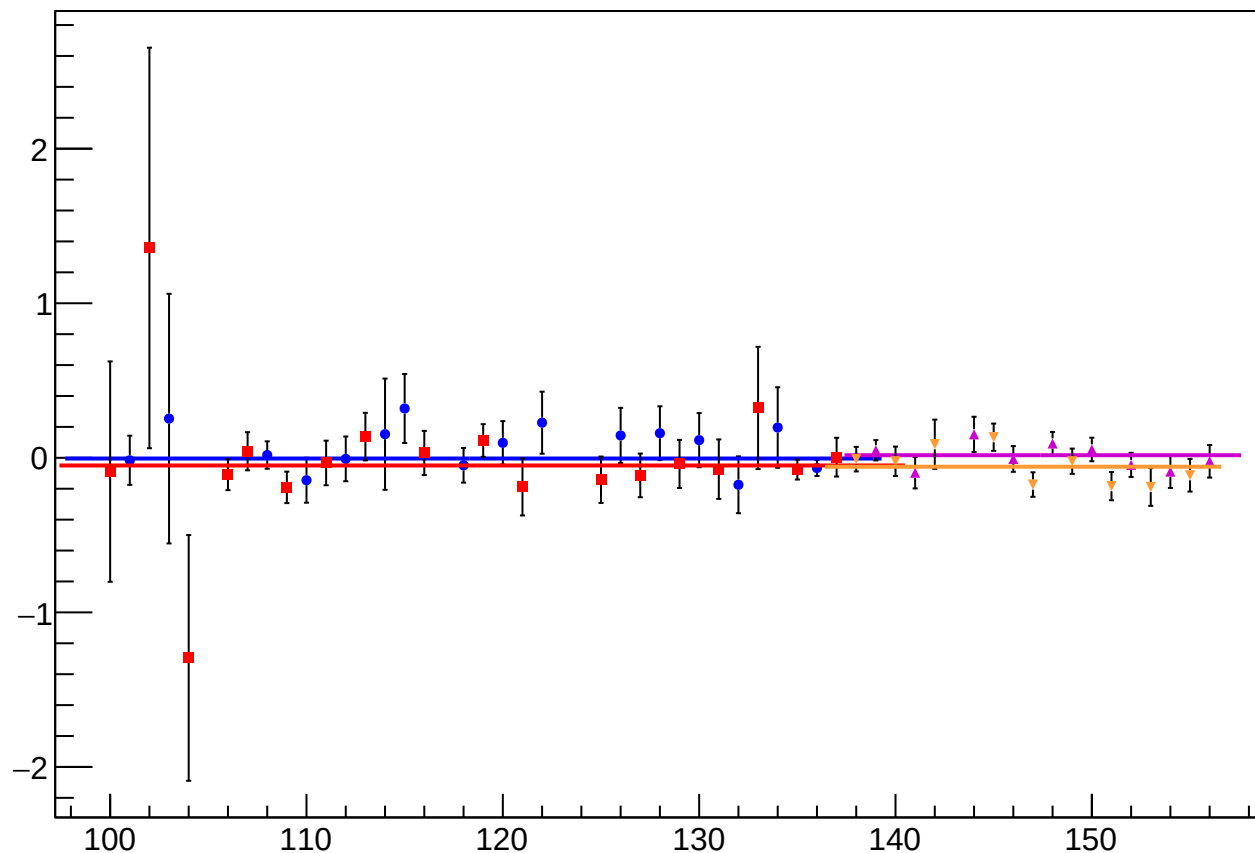
Right: 0.007+/-0.000 χ^2/NDF : 5263403.5/33

In: 0.007+/-0.000 χ^2/NDF :5039961.6/24

Out: 0.006+/-0.000 χ^2/NDF :4519974.8/26

All: 0.007+/-0.000 χ^2/NDF : 9582747.6/51

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: -0.058 ± 0.031 $\chi^2/\text{NDF}: 11.7/8$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.017 ± 0.028 $\chi^2/\text{NDF}: 6.0/8$

Left: -0.017 ± 0.021 $\chi^2/\text{NDF}: 20.8/17$

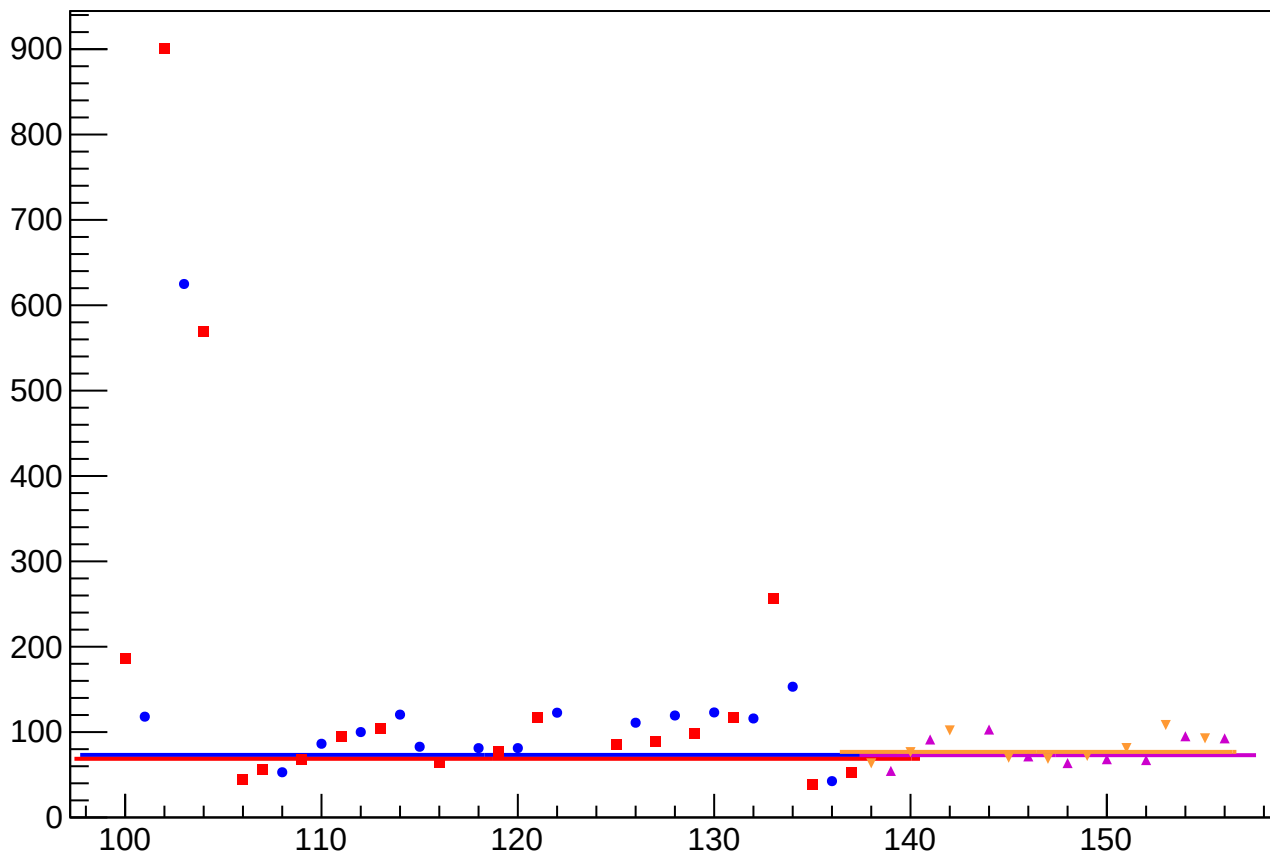
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 16.6/24$

Out: -0.054 ± 0.022 $\chi^2/\text{NDF}: 24.8/26$

All: -0.022 ± 0.015 $\chi^2/\text{NDF}: 45.3/51$

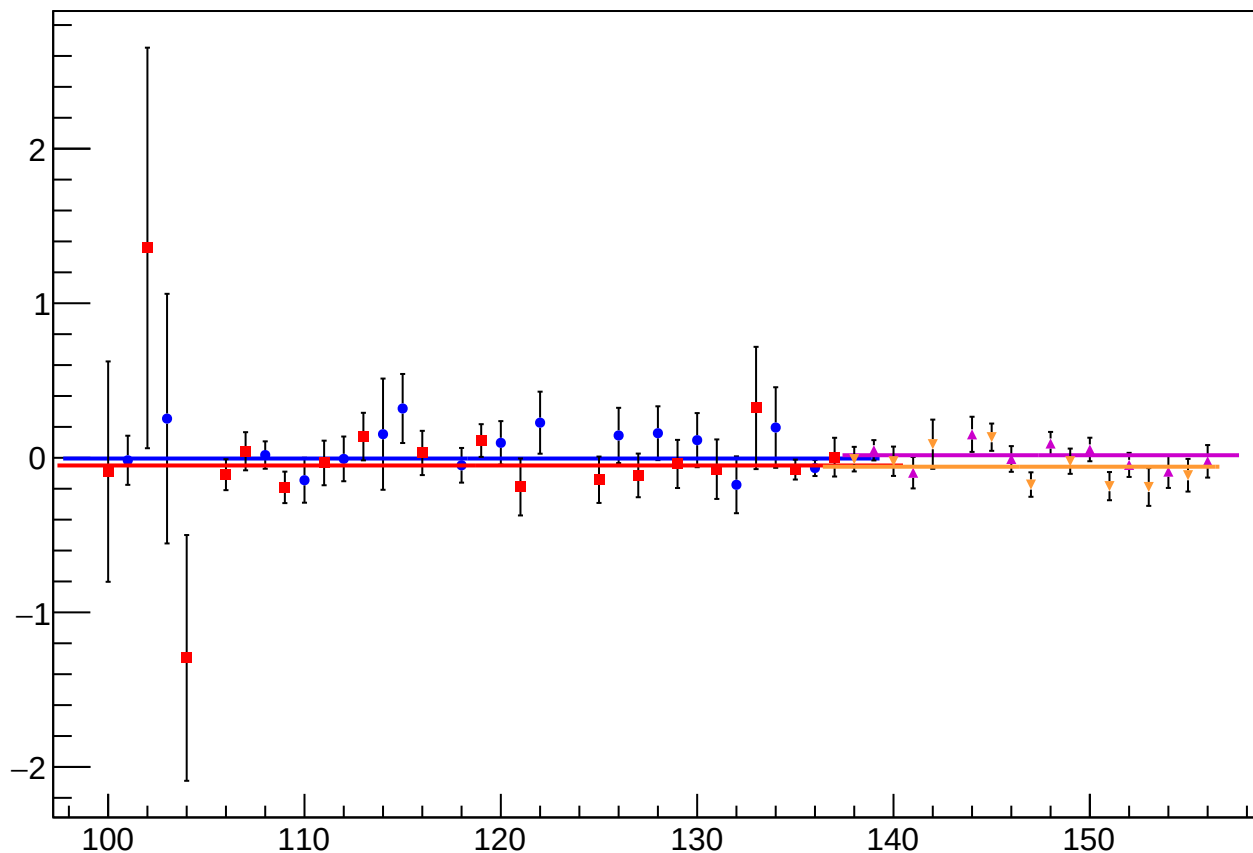
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.260+/-0.023 χ^2/NDF : 2852306.8/15
Left Out: 76.811+/-0.022 χ^2/NDF : 329913.9/8
Right Out: 68.713+/-0.022 χ^2/NDF : 3332744.7/17
Left In: 72.958+/-0.020 χ^2/NDF : 570234.7/8

Left: 74.696 $\pm$ 0.015 χ^2 /NDF: 916821.6/17
 Right: 70.945 $\pm$ 0.016 χ^2 /NDF: 6205307.5/33
 In: 73.090 $\pm$ 0.015 χ^2 /NDF:3422639.9/24
 Out: 72.813 $\pm$ 0.016 χ^2 /NDF:3728918.5/26
 All: 72.957 $\pm$ 0.011 χ^2 /NDF: 7151720.1/51

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: -0.058 ± 0.031 χ^2/NDF : 11.7/8

Right Out: -0.050 ± 0.032 χ^2/NDF : 13.0/17

Left In: 0.017 ± 0.028 χ^2/NDF : 6.0/8

Left: -0.017 ± 0.021 χ^2/NDF : 20.8/17

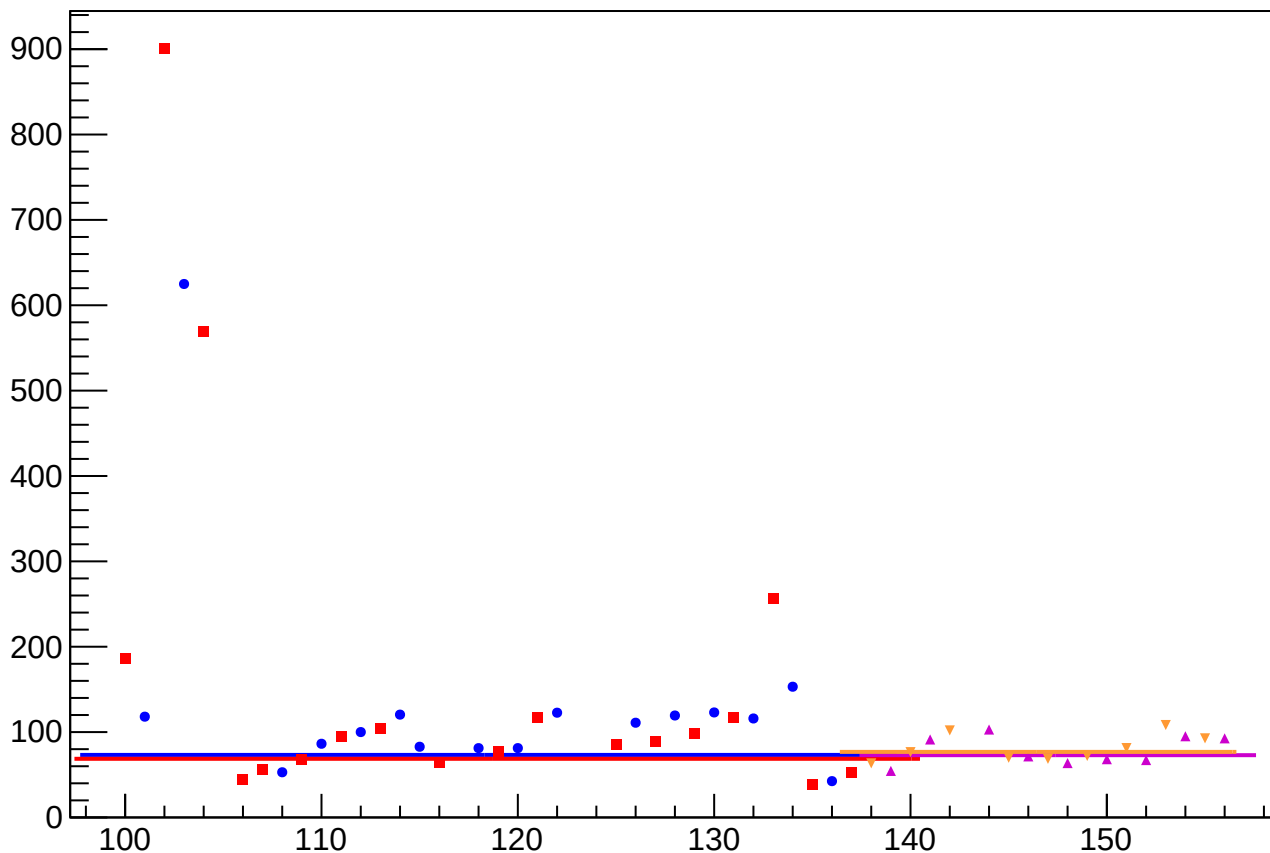
Right: -0.027 ± 0.023 χ^2/NDF : 24.3/33

In: 0.007 ± 0.021 χ^2/NDF : 16.6/24

Out: -0.054 ± 0.022 χ^2/NDF : 24.8/26

All: -0.022 ± 0.015 χ^2/NDF : 45.3/51

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: 76.811+/-0.022 χ^2/NDF : 329913.9/8

Right Out: 68.713+/-0.022 χ^2/NDF : 3332744.7/17

Left In: 72.958+/-0.020 χ^2/NDF : 570234.7/8

Left: 74.696+/-0.015 χ^2/NDF : 916821.6/17

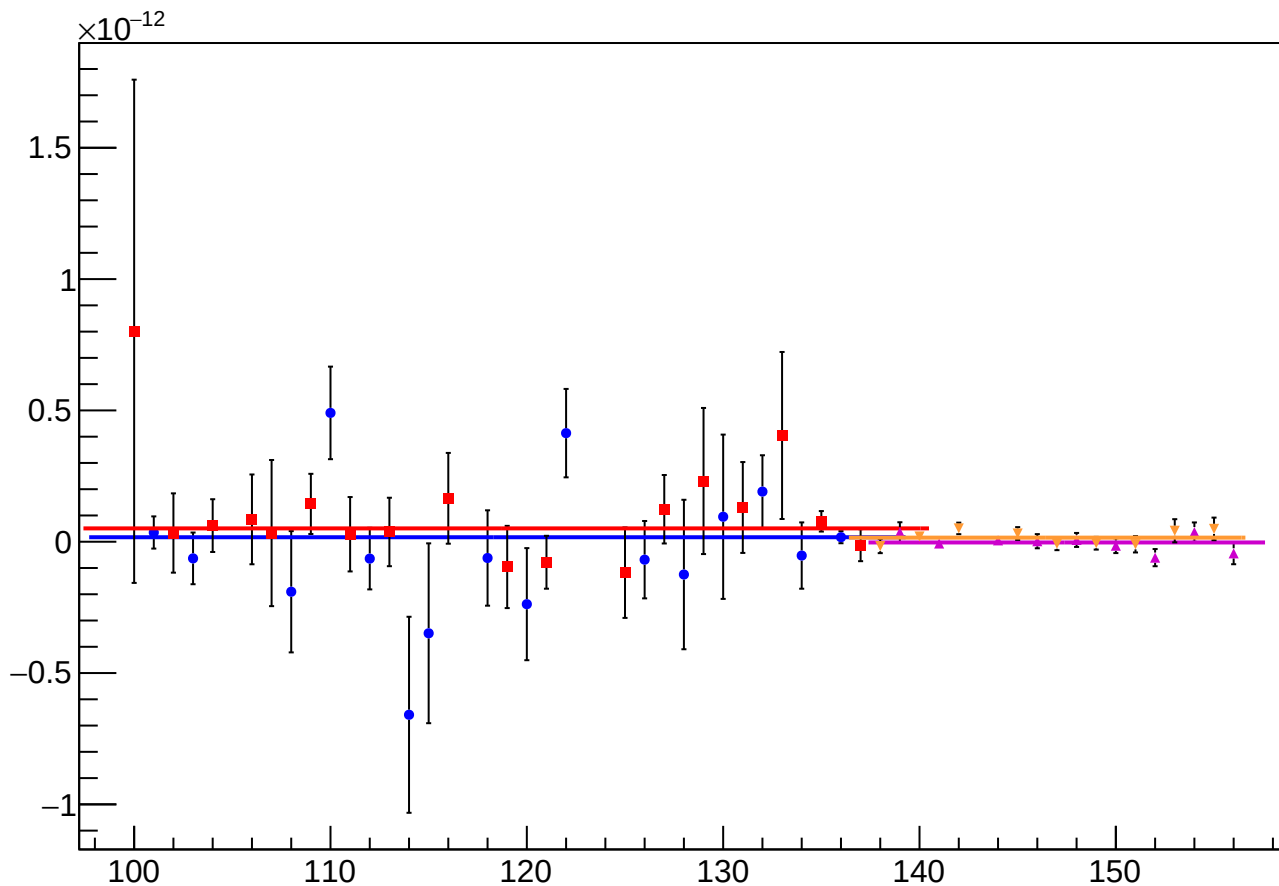
Right: 70.945+/-0.016 χ^2/NDF : 6205307.5/33

In: 73.090+/-0.015 χ^2/NDF : 3422639.9/24

Out: 72.813+/-0.016 χ^2/NDF : 3728918.5/26

All: 72.957+/-0.011 χ^2/NDF : 7151720.1/51

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 : 7.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 9.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 7.0/8

Left: 0.000+/-0.000 χ^2/NDF : 17.2/17

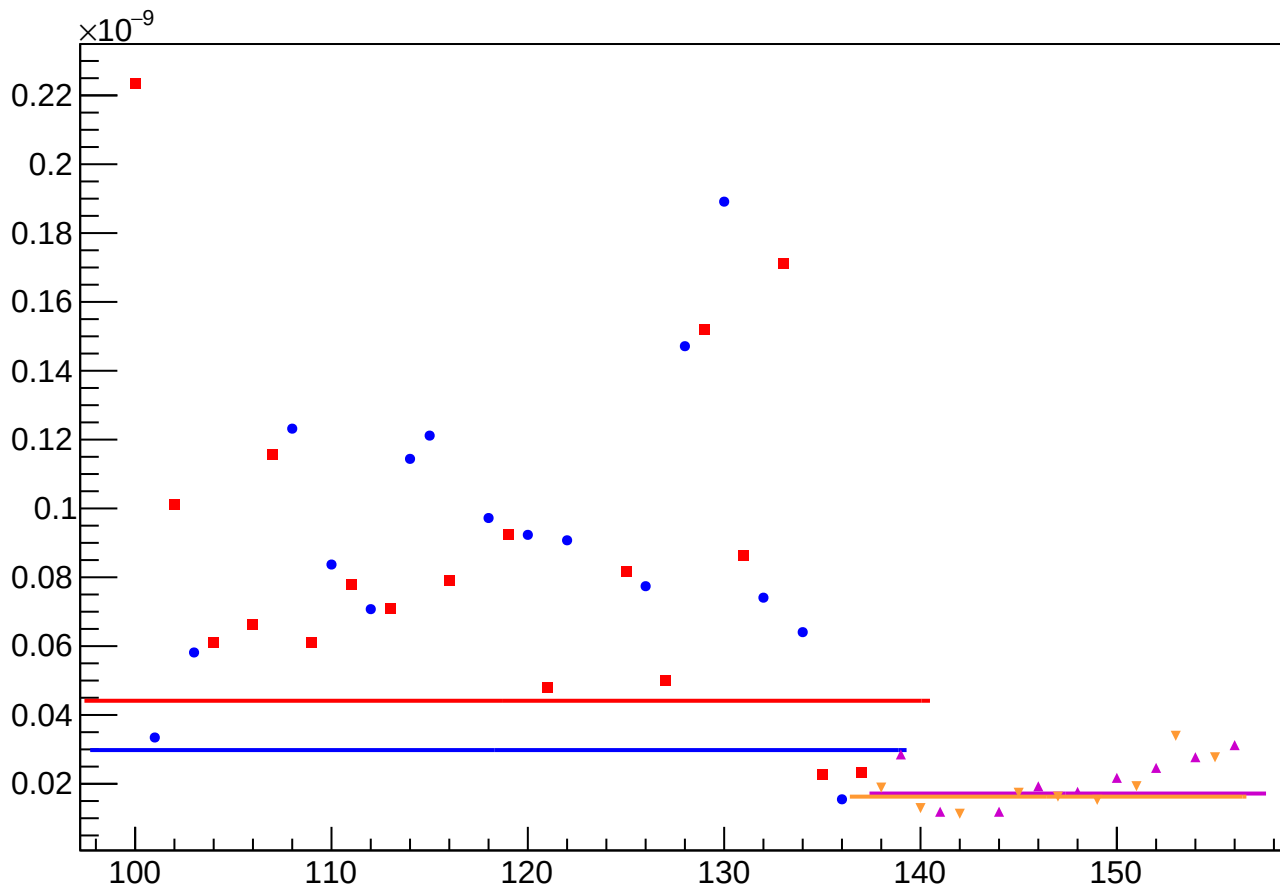
Right: 0.000+/-0.000 χ^2/NDF : 33.6/33

In: 0.000+/-0.000 χ^2/NDF : 31.2/24

Out: 0.000+/-0.000 χ^2/NDF : 18.6/26

All: 0.000+/-0.000 χ^2/NDF : 52.8/51

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4079776.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 689980.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2779318.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 1166970.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1868601.1/17

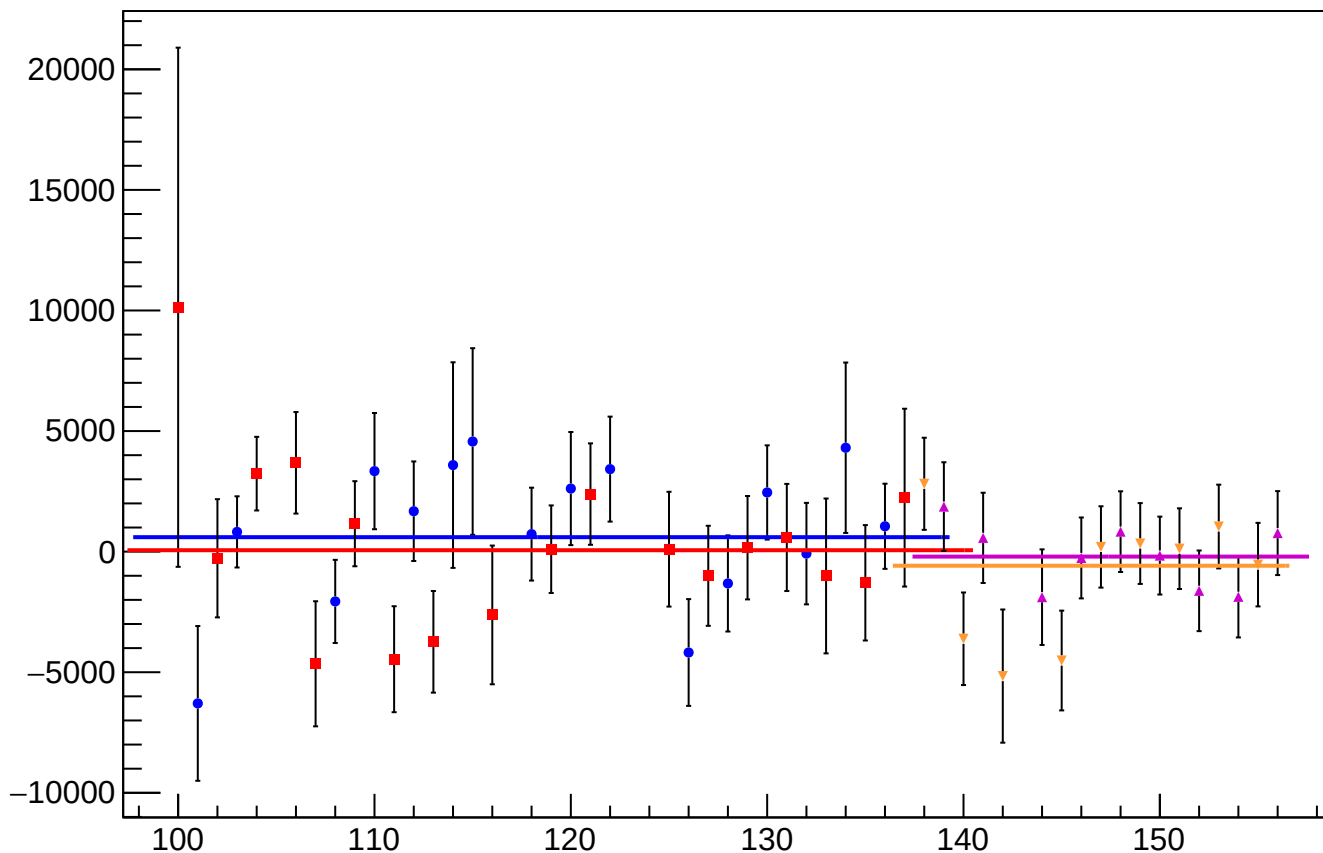
Right: 0.000+/-0.000 χ^2/NDF : 7274202.8/33

In: 0.000+/-0.000 χ^2/NDF : 5966671.6/24

Out: 0.000+/-0.000 χ^2/NDF : 5733441.7/26

All: 0.000+/-0.000 χ^2/NDF : 11700113.4/51

reg_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.146 $\pm$ 540.053 χ^2 /NDF: 20.3/15

Left Out: -584.231 $\pm$ 615.389 χ^2 /NDF:13.6/8

Right Out: 59.091 $\pm$ 530.206 χ^2 /NDF: 22.5/17

Left In: -205.032 $\pm$ 580.133 χ^2 /NDF:4.6/8

Left: -383.459 $\pm$ 422.130 χ^2 /NDF: 18.3/17

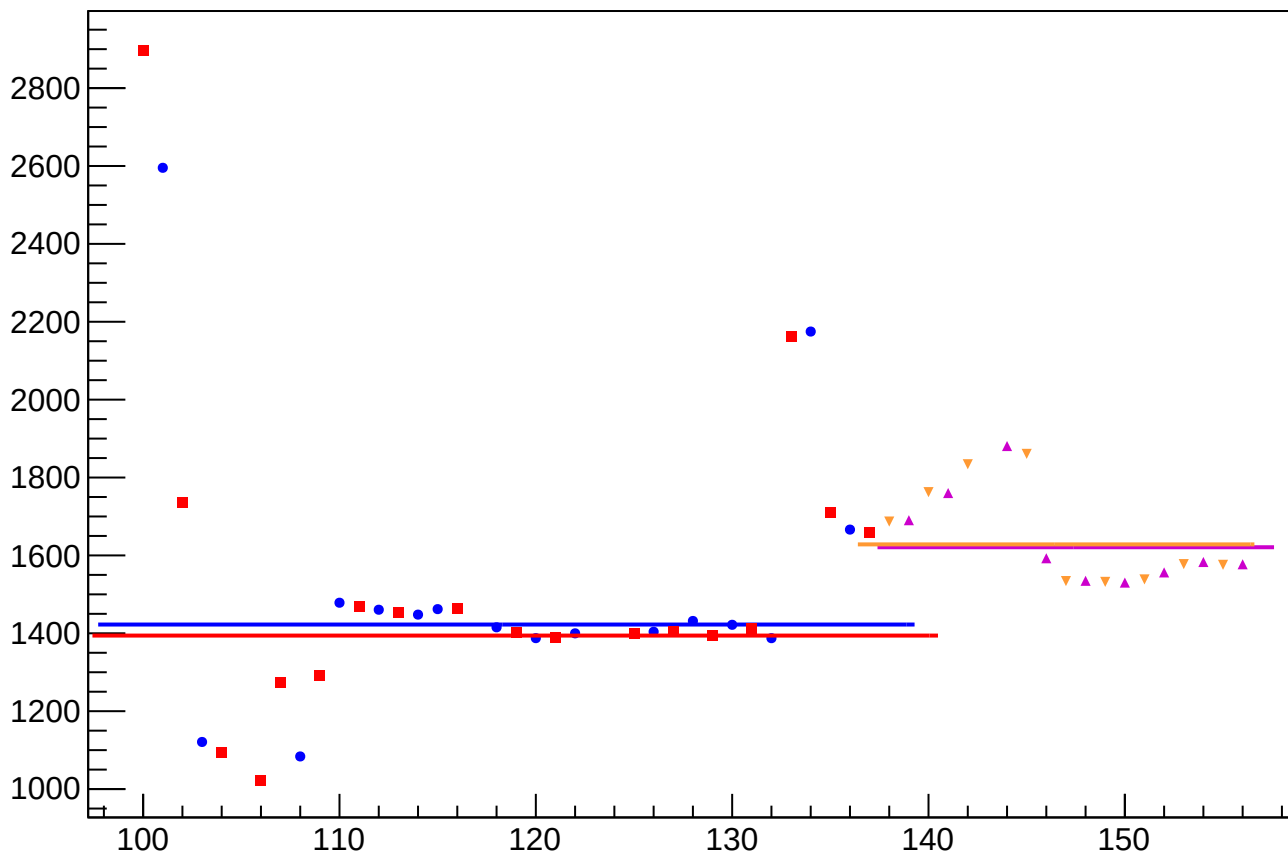
Right: 324.641 $\pm$ 378.346 χ^2 /NDF: 43.4/33

In: 226.329 $\pm$ 395.286 χ^2 /NDF:25.9/24

Out: -214.998 $\pm$ 401.681 χ^2 /NDF:36.8/26

All: 9.207 $\pm$ 281.743 χ^2 /NDF: 63.3/51

reg_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515 ± 0.382 $\chi^2/\text{NDF}: 560259.3/15$

Left Out: 1628.321 ± 0.435 $\chi^2/\text{NDF}: 70170.3/8$

Right Out: 1394.171 ± 0.375 $\chi^2/\text{NDF}: 393666.0/17$

Left In: 1620.991 ± 0.410 $\chi^2/\text{NDF}: 65733.1/8$

Left: 1624.440 ± 0.298 $\chi^2/\text{NDF}: 136053.7/17$

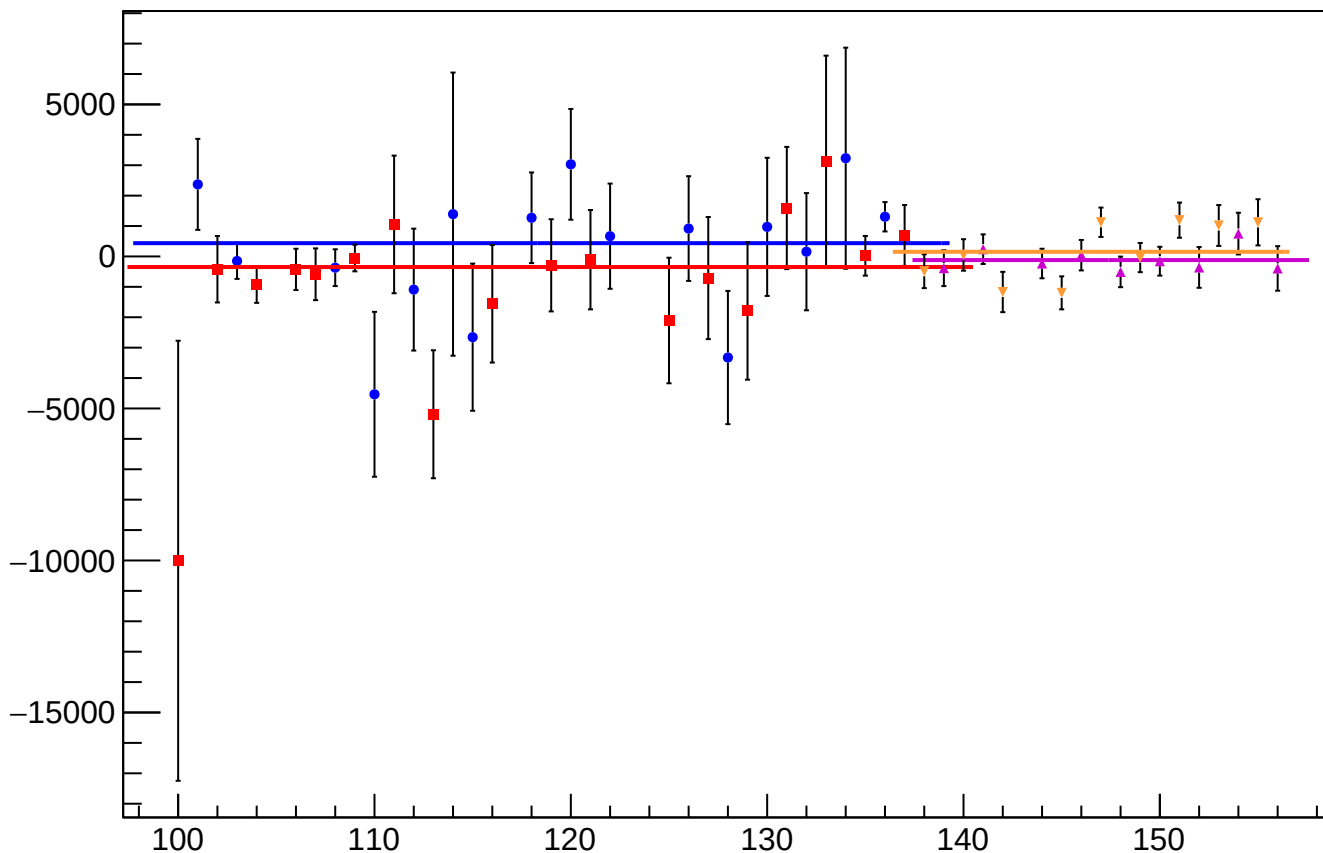
Right: 1408.082 ± 0.268 $\chi^2/\text{NDF}: 956730.5/33$

In: 1514.661 ± 0.280 $\chi^2/\text{NDF}: 751405.1/24$

Out: 1493.931 ± 0.284 $\chi^2/\text{NDF}: 630022.4/26$

All: 1504.462 ± 0.199 $\chi^2/\text{NDF}: 1384133.6/51$

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: 152.747 $\pm$ 188.286 χ^2 /NDF:22.3/8

Right Out: -348.567 $\pm$ 233.745 χ^2 /NDF: 13.9/17

Left In: -119.627 $\pm$ 182.781 χ^2 /NDF:3.4/8

Left: 12.521 $\pm$ 131.149 χ^2 /NDF: 26.7/17

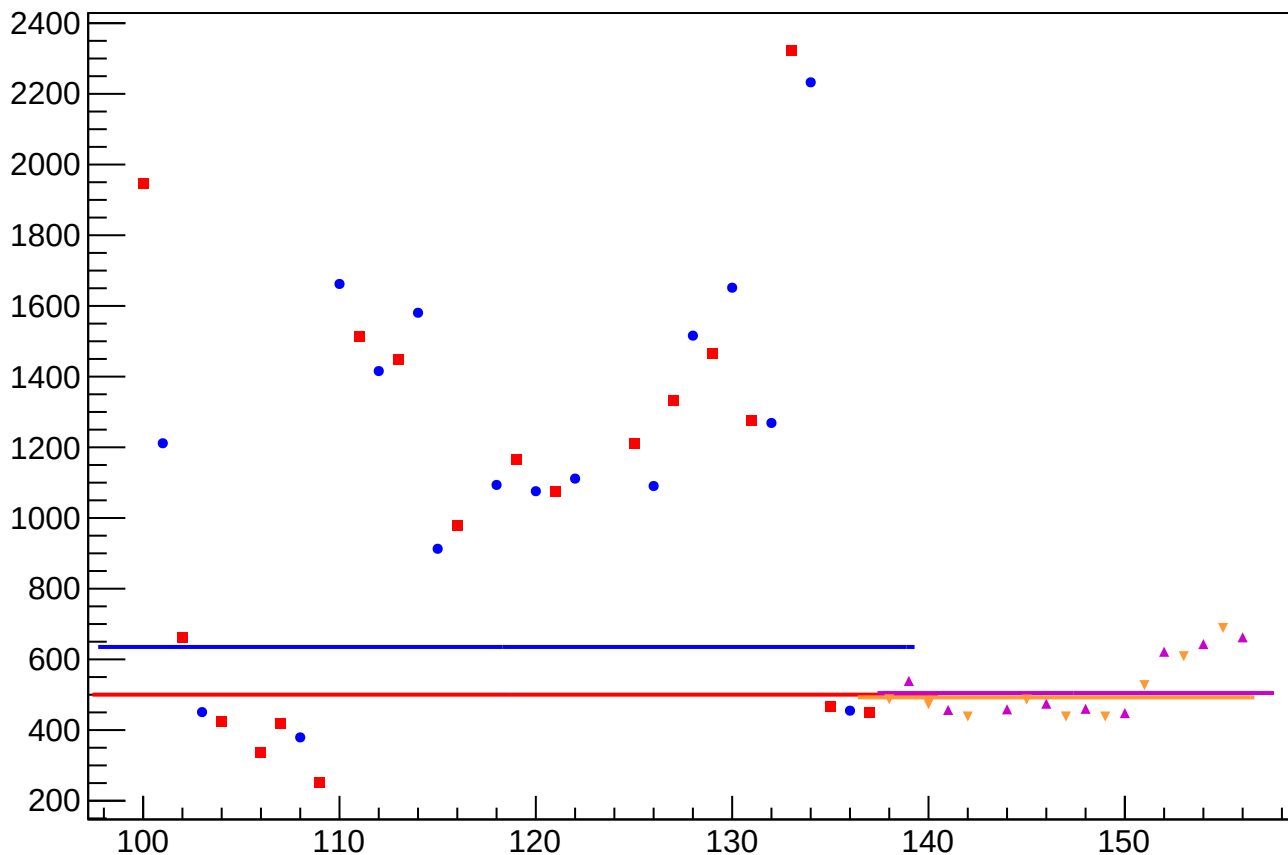
Right: -20.548 $\pm$ 178.349 χ^2 /NDF: 38.0/33

In: 49.992 $\pm$ 152.379 χ^2 /NDF:25.6/24

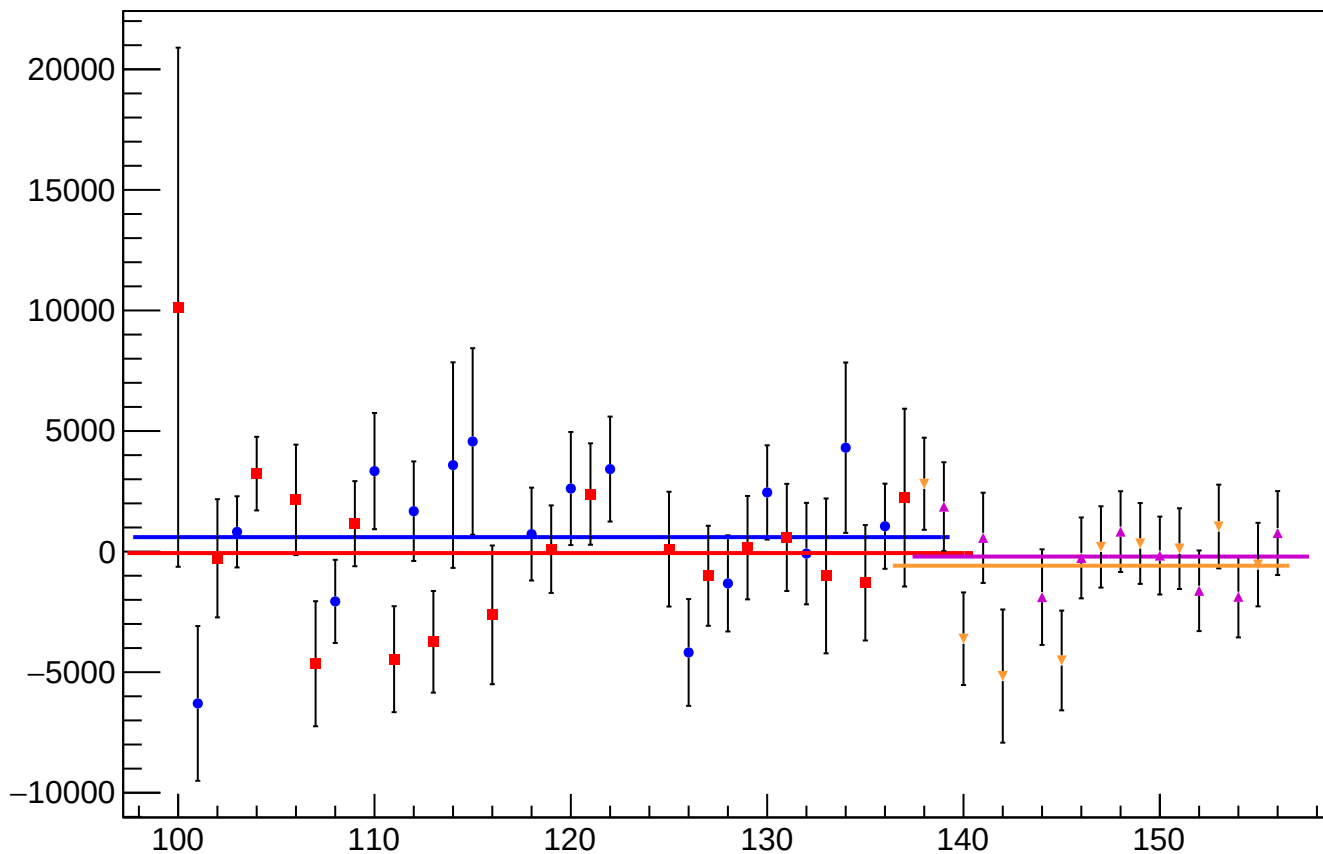
Out: -44.530 $\pm$ 146.631 χ^2 /NDF:39.0/26

All: 0.915 $\pm$ 105.657 χ^2 /NDF: 64.7/51

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



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: -584.298+/-615.389 χ^2/NDF :13.6/8

Right Out: -60.361+/-532.826 χ^2/NDF : 20.4/17

Left In: -205.058+/-580.133 χ^2/NDF :4.6/8

Left: -383.504+/-422.130 χ^2/NDF : 18.3/17

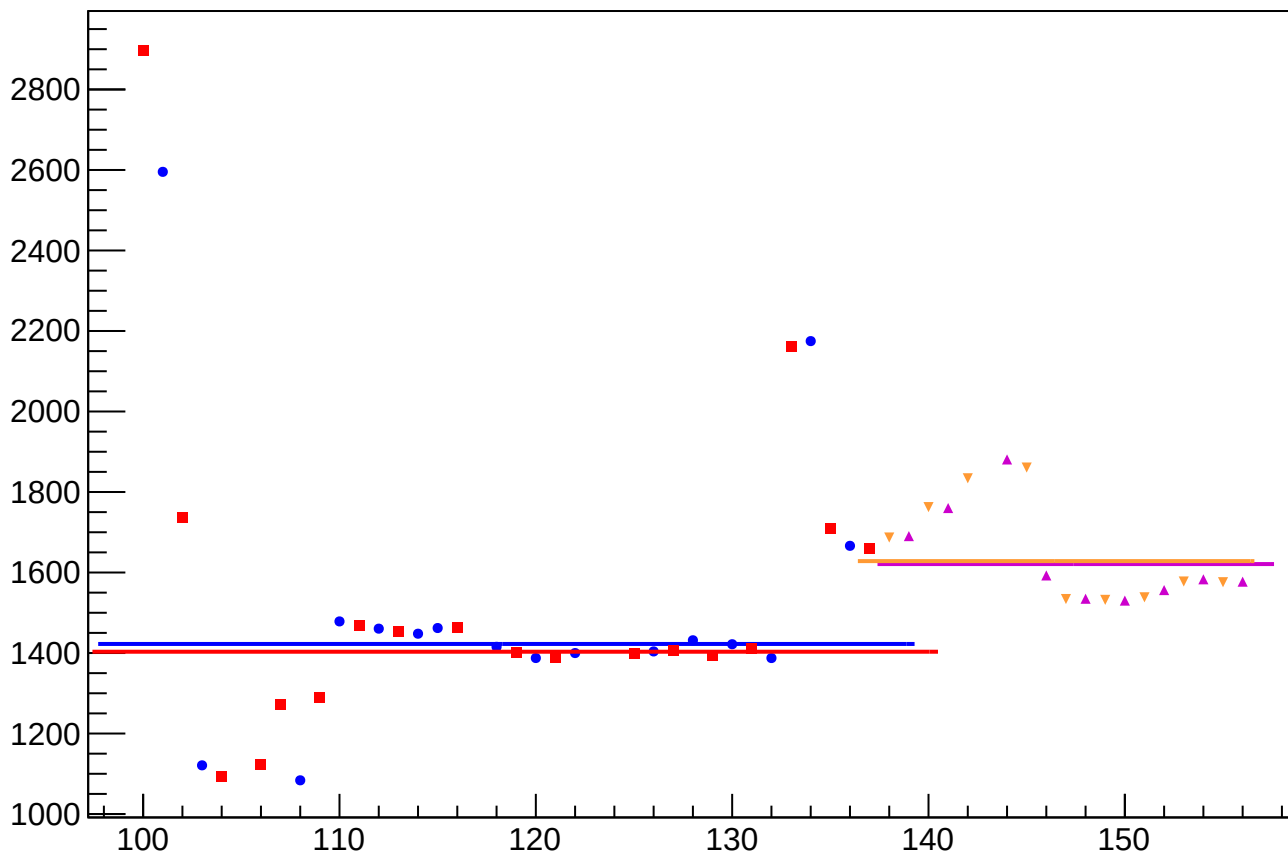
Right: 265.381+/-379.294 χ^2/NDF : 41.4/33

In: 226.249+/-395.286 χ^2/NDF :25.9/24

Out: -284.849+/-402.816 χ^2/NDF :34.4/26

All: -24.478+/-282.134 χ^2/NDF : 61.1/51

cor_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515 $\pm$ 0.382 χ^2/NDF : 560259.5/15

Left Out: 1628.321 $\pm$ 0.435 χ^2/NDF : 70170.3/8

Right Out: 1403.220 $\pm$ 0.377 χ^2/NDF : 359113.5/17

Left In: 1620.991 $\pm$ 0.410 χ^2/NDF : 65733.1/8

Left: 1624.440 $\pm$ 0.298 χ^2/NDF : 136053.7/17

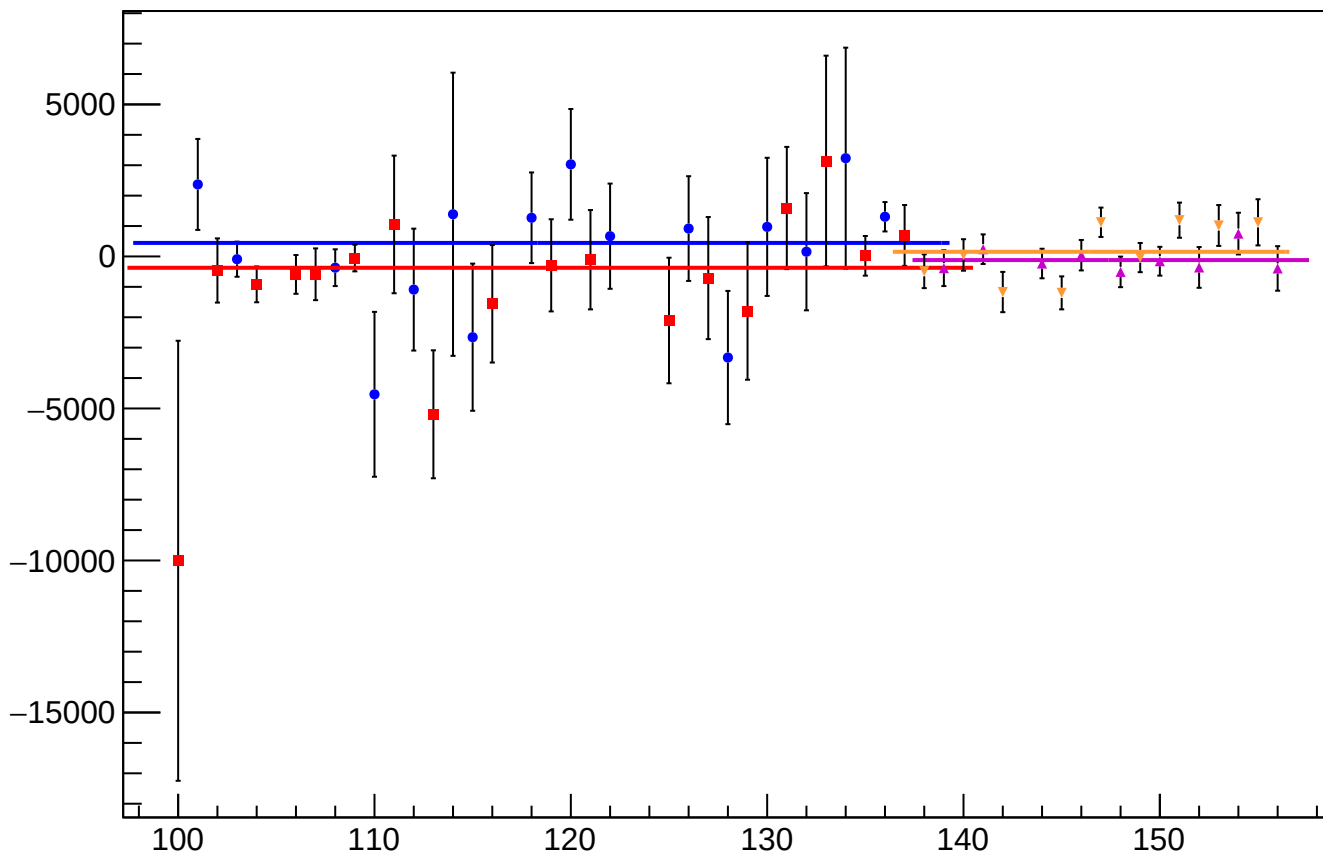
Right: 1412.737 $\pm$ 0.268 χ^2/NDF : 920666.7/33

In: 1514.660 $\pm$ 0.280 χ^2/NDF : 751405.4/24

Out: 1499.667 $\pm$ 0.285 χ^2/NDF : 582227.6/26

All: 1507.305 $\pm$ 0.199 χ^2/NDF : 1335044.6/51

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121 $\pm$ 274.737 χ^2 /NDF: 19.2/15

Left Out: 152.757 $\pm$ 188.289 χ^2 /NDF:22.3/8

Right Out: -372.538 $\pm$ 231.353 χ^2 /NDF: 14.0/17

Left In: -119.713 $\pm$ 182.779 χ^2 /NDF:3.4/8

Left: 12.477 $\pm$ 131.149 χ^2 /NDF: 26.7/17

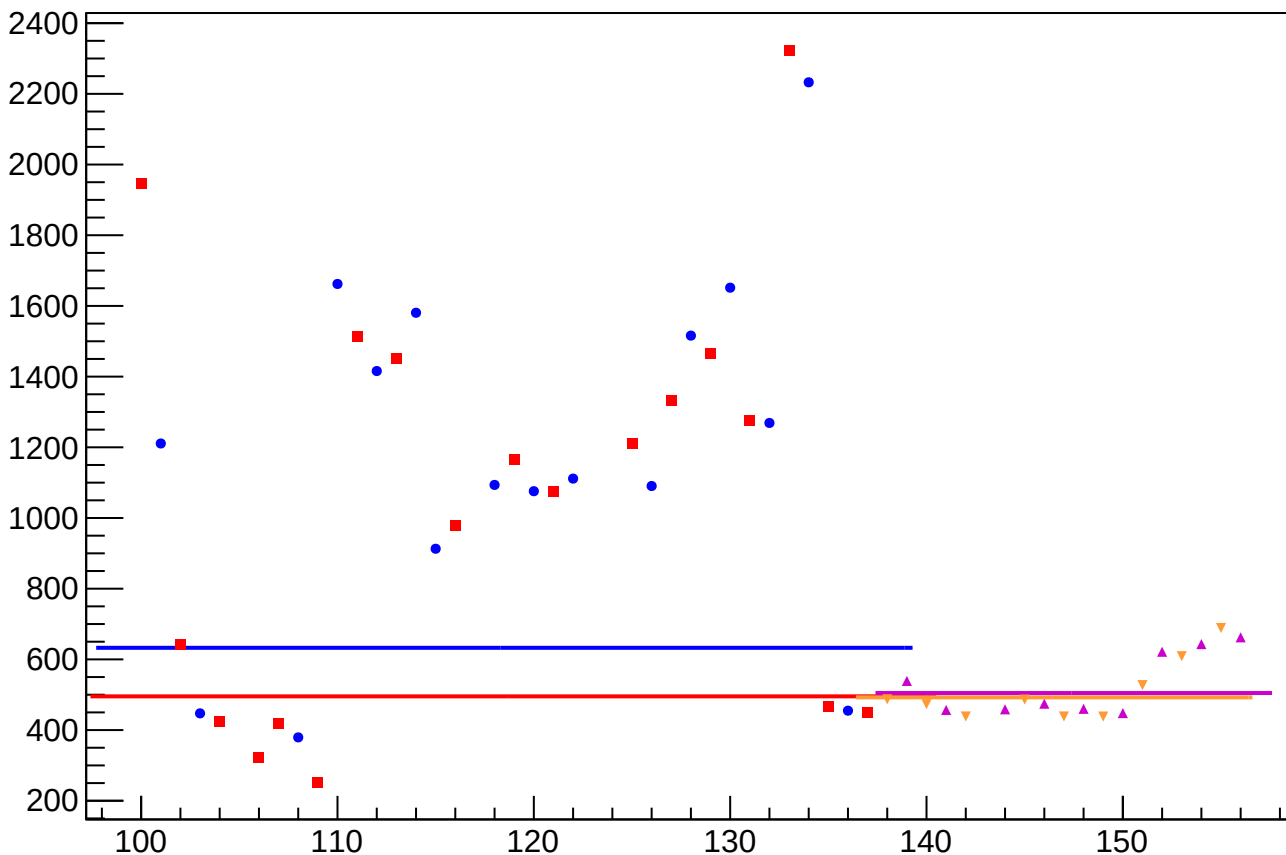
Right: -33.290 $\pm$ 176.966 χ^2 /NDF: 38.4/33

In: 53.583 $\pm$ 152.178 χ^2 /NDF:25.5/24

Out: -56.546 $\pm$ 146.036 χ^2 /NDF:39.4/26

All: -3.748 $\pm$ 105.368 χ^2 /NDF: 65.1/51

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: 492.539+/-0.133 χ^2/NDF : 268267.7/8

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 504.813+/-0.129 χ^2/NDF : 330538.6/8

Left: 498.859+/-0.093 χ^2/NDF : 603181.6/17

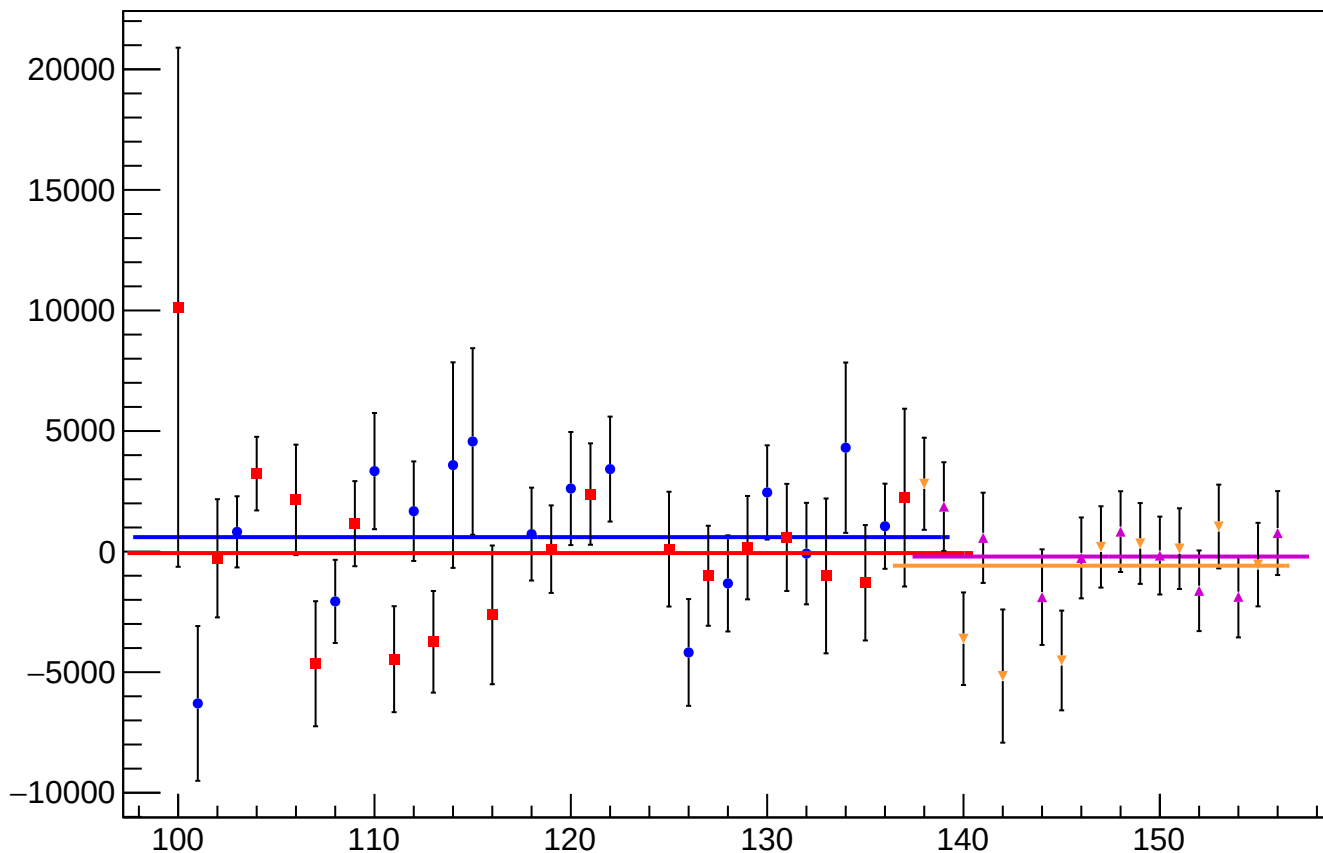
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 544.066+/-0.108 χ^2/NDF : 4398918.1/24

Out: 493.671+/-0.103 χ^2/NDF : 4605933.8/26

All: 517.831+/-0.075 χ^2/NDF : 9119032.7/51

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: -584.298+/-615.389 χ^2/NDF :13.6/8

Right Out: -60.361+/-532.826 χ^2/NDF : 20.4/17

Left In: -205.058+/-580.133 χ^2/NDF :4.6/8

Left: -383.504+/-422.130 χ^2/NDF : 18.3/17

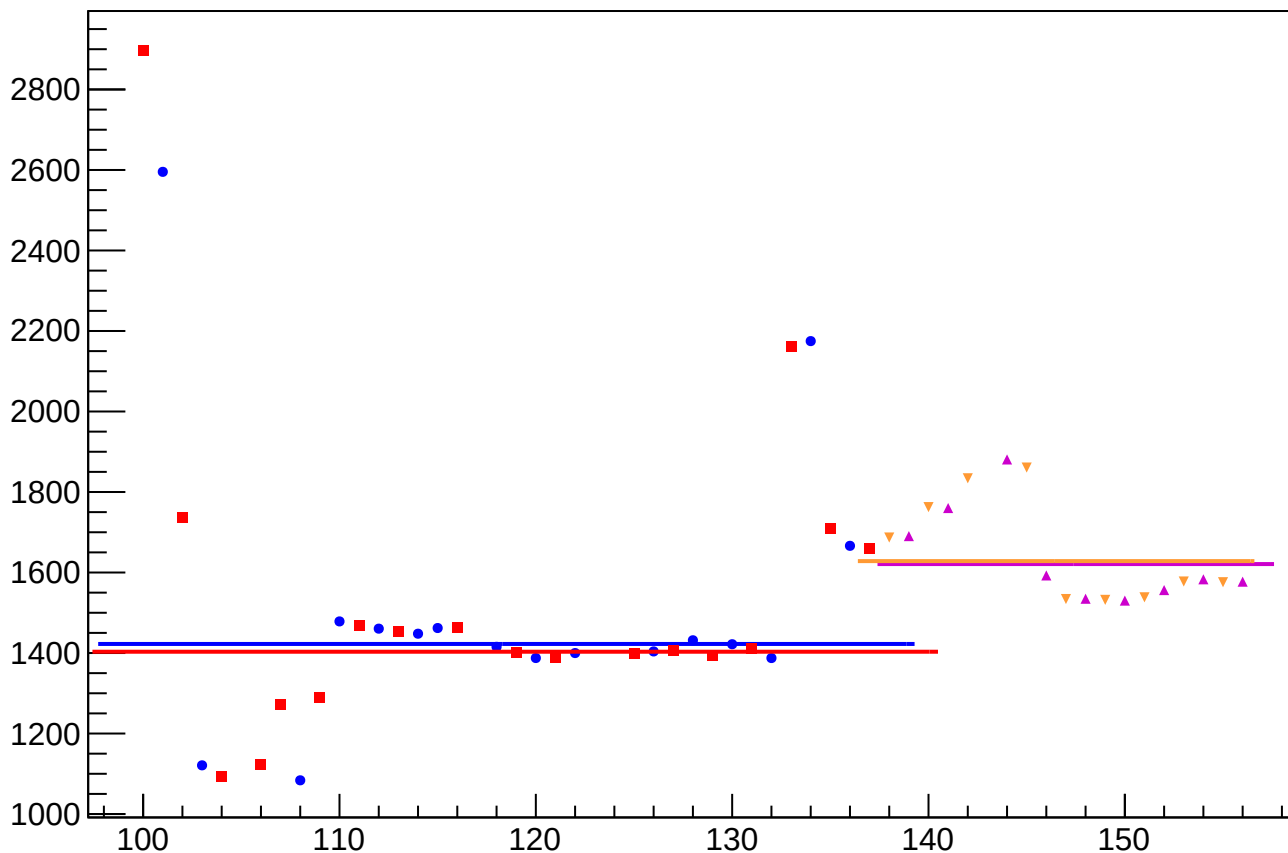
Right: 265.381+/-379.294 χ^2/NDF : 41.4/33

In: 226.249+/-395.286 χ^2/NDF :25.9/24

Out: -284.849+/-402.816 χ^2/NDF :34.4/26

All: -24.478+/-282.134 χ^2/NDF : 61.1/51

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: 1628.321+/-0.435 χ^2/NDF : 70170.3/8

Right Out: 1403.220+/-0.377 χ^2/NDF : 359113.5/17

Left In: 1620.991+/-0.410 χ^2/NDF : 65733.1/8

Left: 1624.440+/-0.298 χ^2/NDF : 136053.7/17

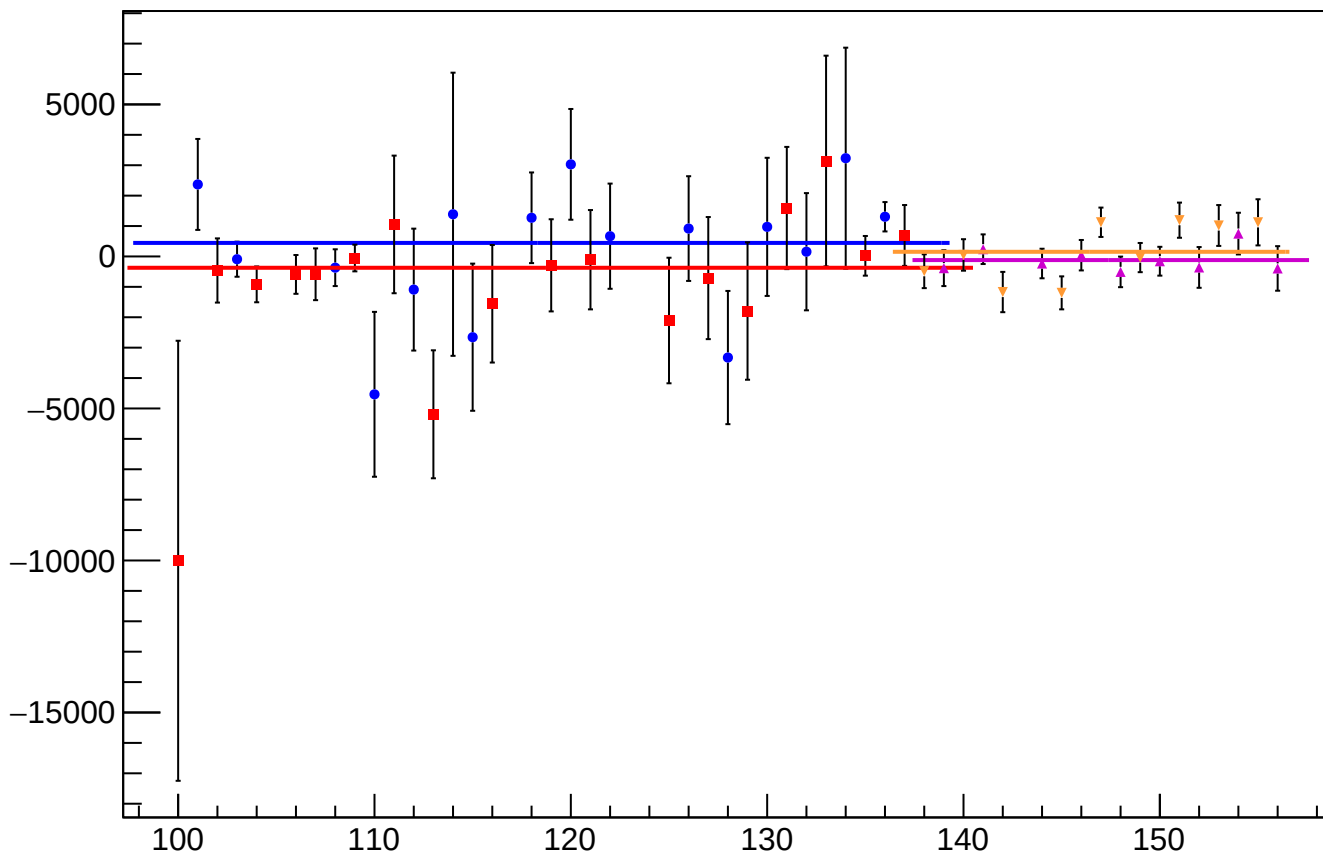
Right: 1412.737+/-0.268 χ^2/NDF : 920666.7/33

In: 1514.660+/-0.280 χ^2/NDF : 751405.4/24

Out: 1499.667+/-0.285 χ^2/NDF : 582227.6/26

All: 1507.305+/-0.199 χ^2/NDF : 1335044.6/51

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121 $\pm$ 274.737 χ^2 /NDF: 19.2/15

Left Out: 152.757 $\pm$ 188.289 χ^2 /NDF:22.3/8

Right Out: -372.538 $\pm$ 231.353 χ^2 /NDF: 14.0/17

Left In: -119.713 $\pm$ 182.779 χ^2 /NDF:3.4/8

Left: 12.477 $\pm$ 131.149 χ^2 /NDF: 26.7/17

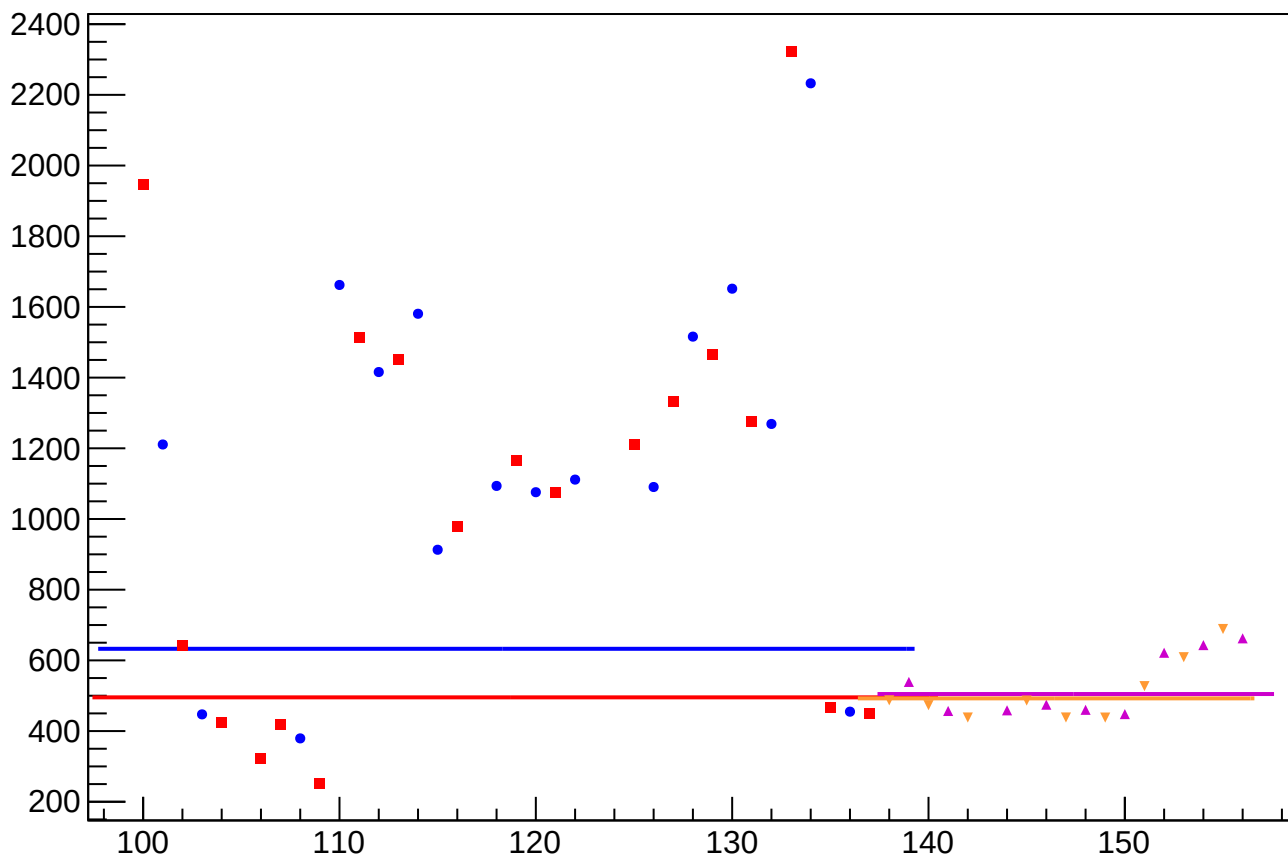
Right: -33.290 $\pm$ 176.966 χ^2 /NDF: 38.4/33

In: 53.583 $\pm$ 152.178 χ^2 /NDF:25.5/24

Out: -56.546 $\pm$ 146.036 χ^2 /NDF:39.4/26

All: -3.748 $\pm$ 105.368 χ^2 /NDF: 65.1/51

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: 492.539+/-0.133 χ^2/NDF : 268267.7/8

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 504.813+/-0.129 χ^2/NDF : 330538.6/8

Left: 498.859+/-0.093 χ^2/NDF : 603181.6/17

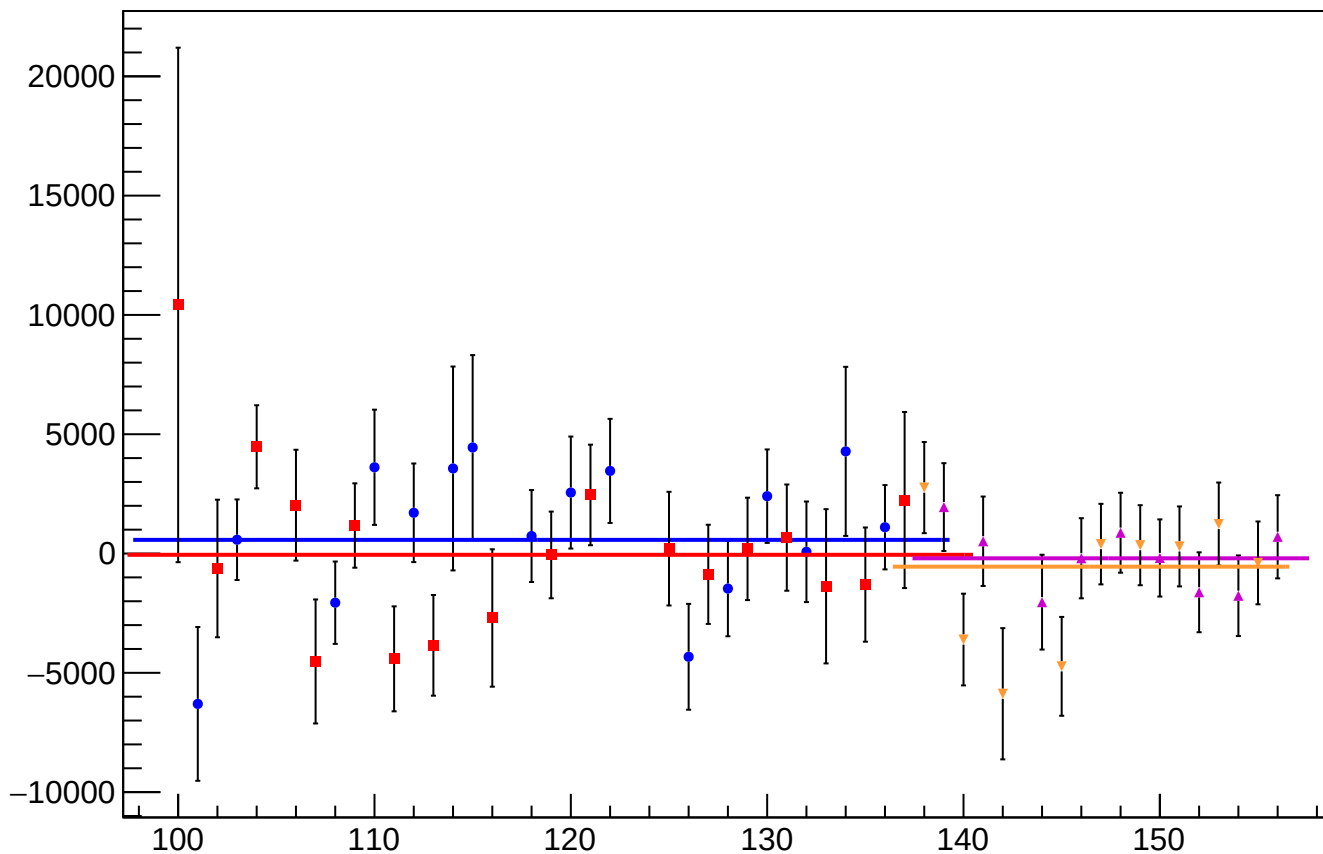
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 544.066+/-0.108 χ^2/NDF : 4398918.1/24

Out: 493.671+/-0.103 χ^2/NDF : 4605933.8/26

All: 517.831+/-0.075 χ^2/NDF : 9119032.7/51

dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 572.289 $\pm$ 549.638 χ^2 /NDF: 20.8/15

Left Out: -550.875 $\pm$ 616.057 χ^2 /NDF:15.3/8

Right Out: -53.754 $\pm$ 545.353 χ^2 /NDF: 22.5/17

Left In: -200.273 $\pm$ 580.957 χ^2 /NDF:4.6/8

Left: -365.303 $\pm$ 422.663 χ^2 /NDF: 20.1/17

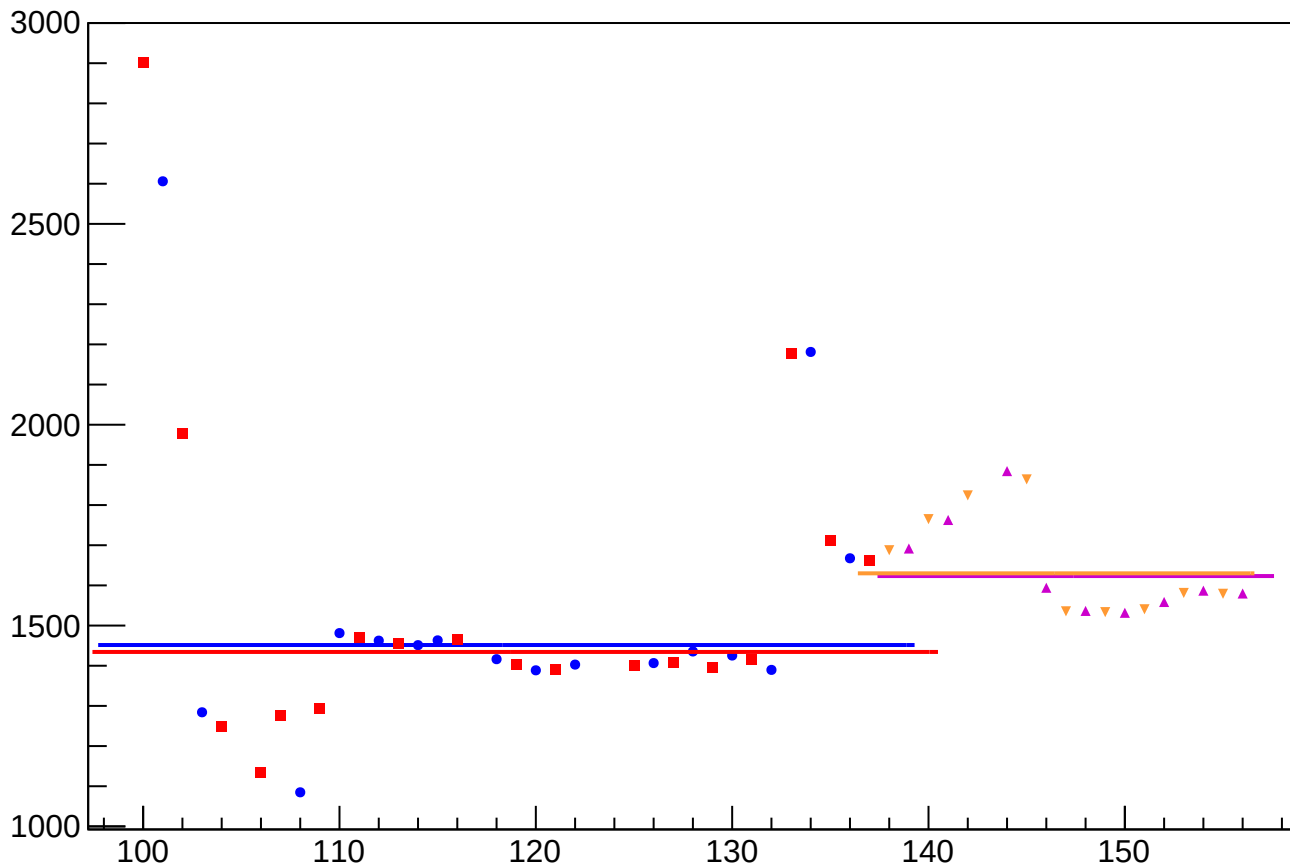
Right: 256.817 $\pm$ 387.129 χ^2 /NDF: 43.9/33

In: 207.393 $\pm$ 399.266 χ^2 /NDF:26.3/24

Out: -272.163 $\pm$ 408.342 χ^2 /NDF:38.2/26

All: -26.996 $\pm$ 285.479 χ^2 /NDF: 65.2/51

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: 1630.030+/-0.436 χ^2/NDF : 69031.4/8

Right Out: 1434.321+/-0.386 χ^2/NDF : 328590.5/17

Left In: 1623.268+/-0.411 χ^2/NDF : 65992.2/8

Left: 1626.451+/-0.299 χ^2/NDF : 135151.1/17

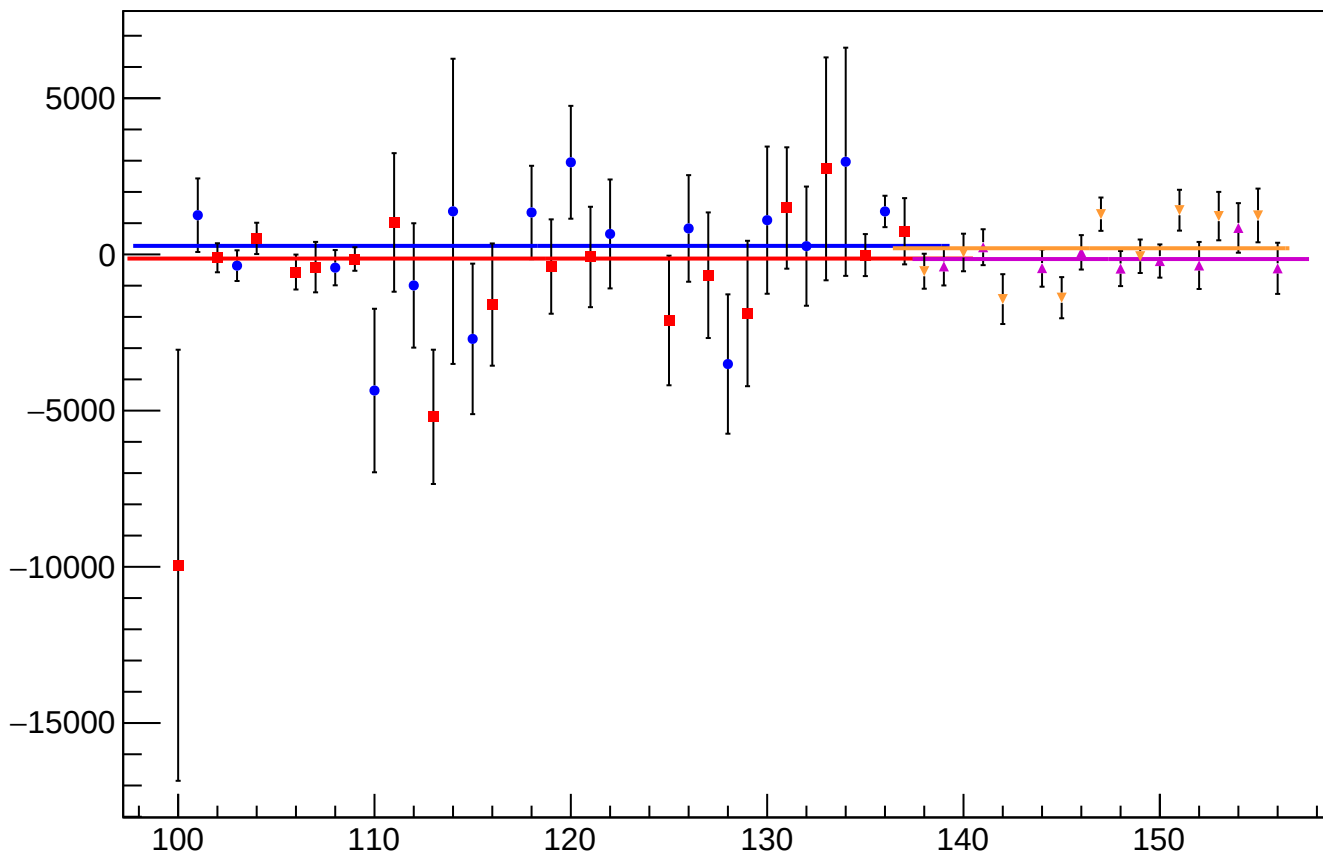
Right: 1442.883+/-0.274 χ^2/NDF : 817420.7/33

In: 1532.671+/-0.282 χ^2/NDF : 646000.9/24

Out: 1520.305+/-0.289 χ^2/NDF : 510784.6/26

All: 1526.627+/-0.202 χ^2/NDF : 1157723.2/51

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: 197.466+/-212.299 χ^2/NDF :22.9/8

Right Out: -132.573+/-195.933 χ^2/NDF : 14.4/17

Left In: -147.900+/-206.911 χ^2/NDF :3.1/8

Left: 20.345+/-148.176 χ^2/NDF : 27.3/17

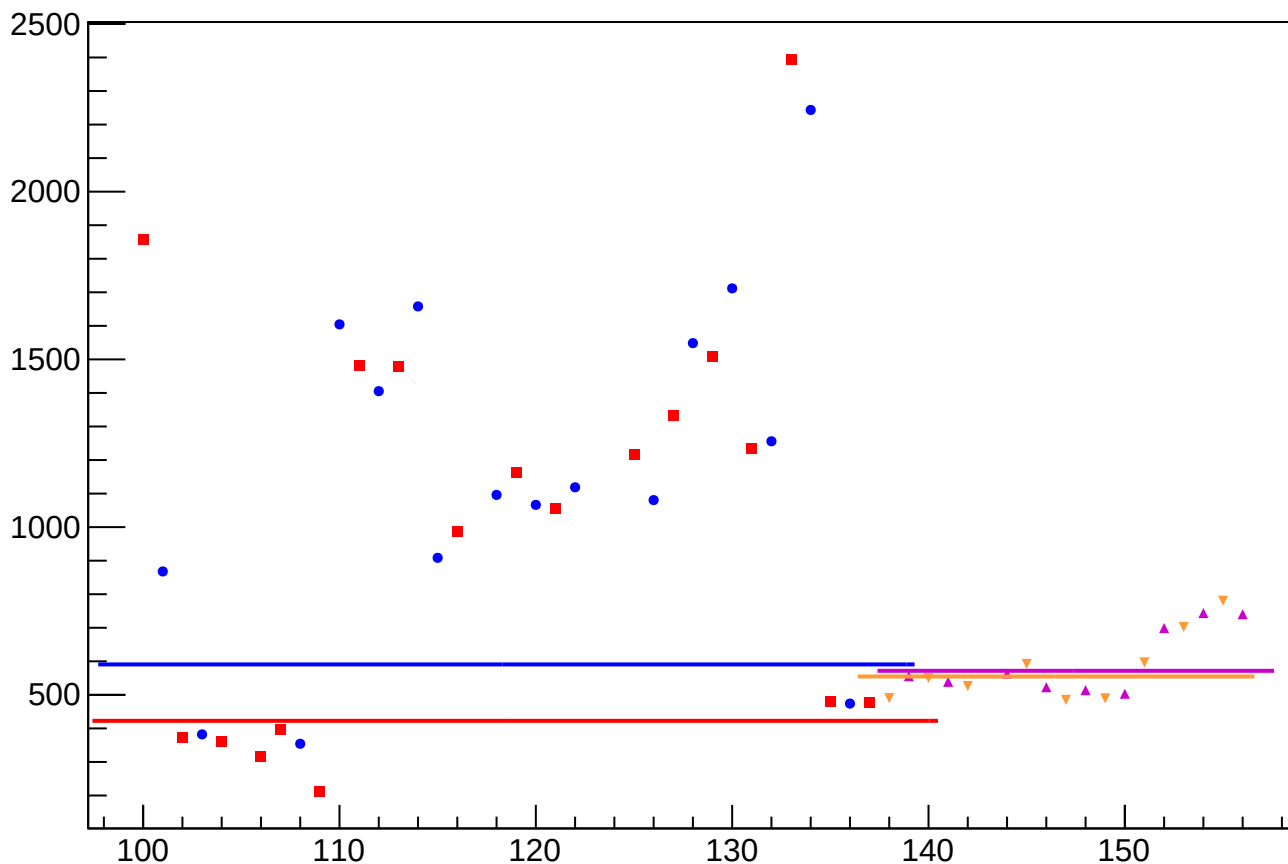
Right: 14.100+/-156.593 χ^2/NDF : 36.2/33

In: 15.061+/-162.030 χ^2/NDF :24.9/24

Out: 19.237+/-143.984 χ^2/NDF :38.6/26

All: 17.395+/-107.629 χ^2/NDF : 63.5/51

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: 554.762+/-0.150 χ^2/NDF : 318079.2/8

Right Out: 422.629+/-0.139 χ^2/NDF : 4858014.6/17

Left In: 571.736+/-0.146 χ^2/NDF : 314477.9/8

Left: 563.467+/-0.105 χ^2/NDF : 639114.5/17

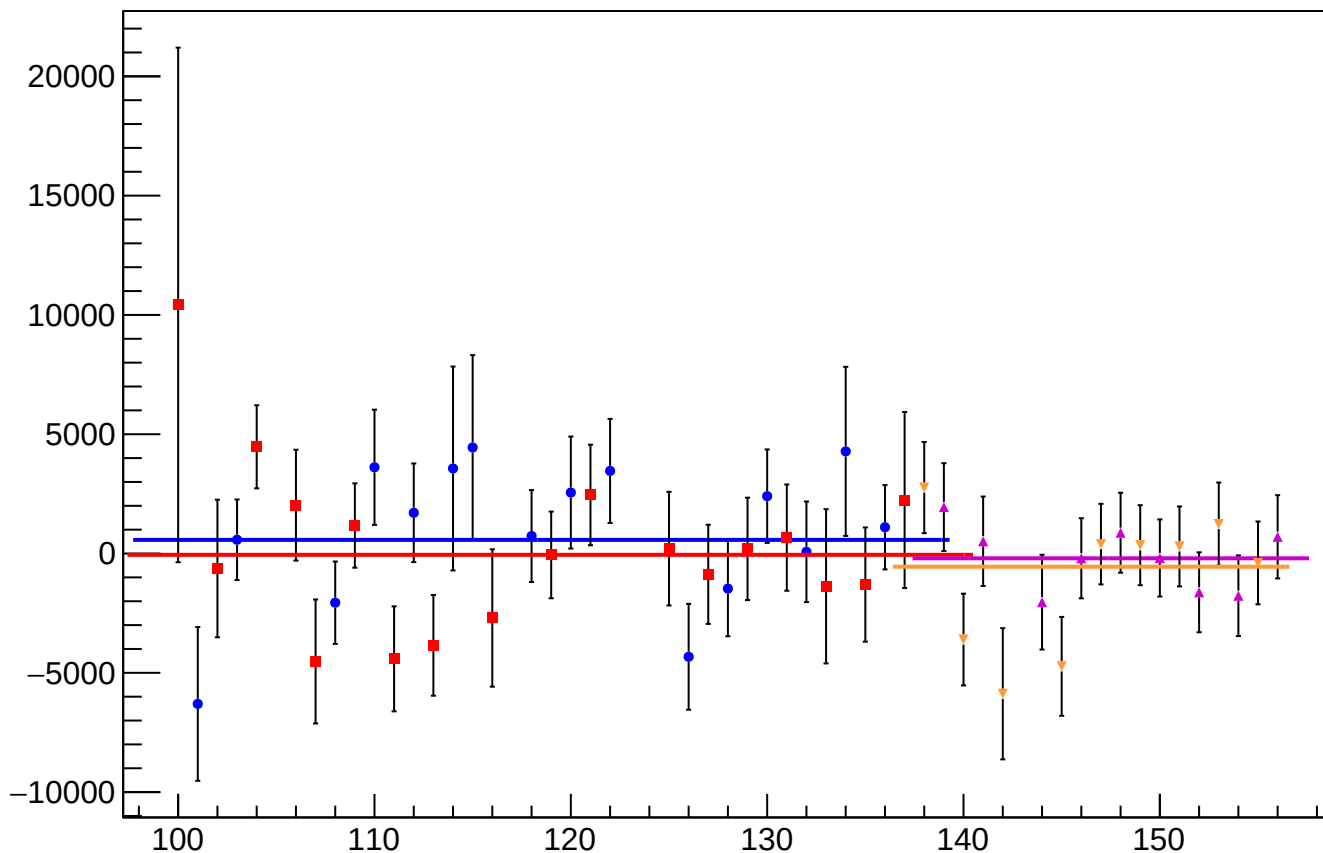
Right: 483.362+/-0.111 χ^2/NDF : 9275456.5/33

In: 579.090+/-0.115 χ^2/NDF : 4206511.5/24

Out: 483.407+/-0.102 χ^2/NDF : 5594473.5/26

All: 525.625+/-0.076 χ^2/NDF : 10190692.6/53

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: -550.888 ± 616.057 χ^2/NDF : 15.3/8

Right Out: -53.752 ± 545.353 χ^2/NDF : 22.5/17

Left In: -200.278 ± 580.957 χ^2/NDF : 4.6/8

Left: -365.311 ± 422.663 χ^2/NDF : 20.1/17

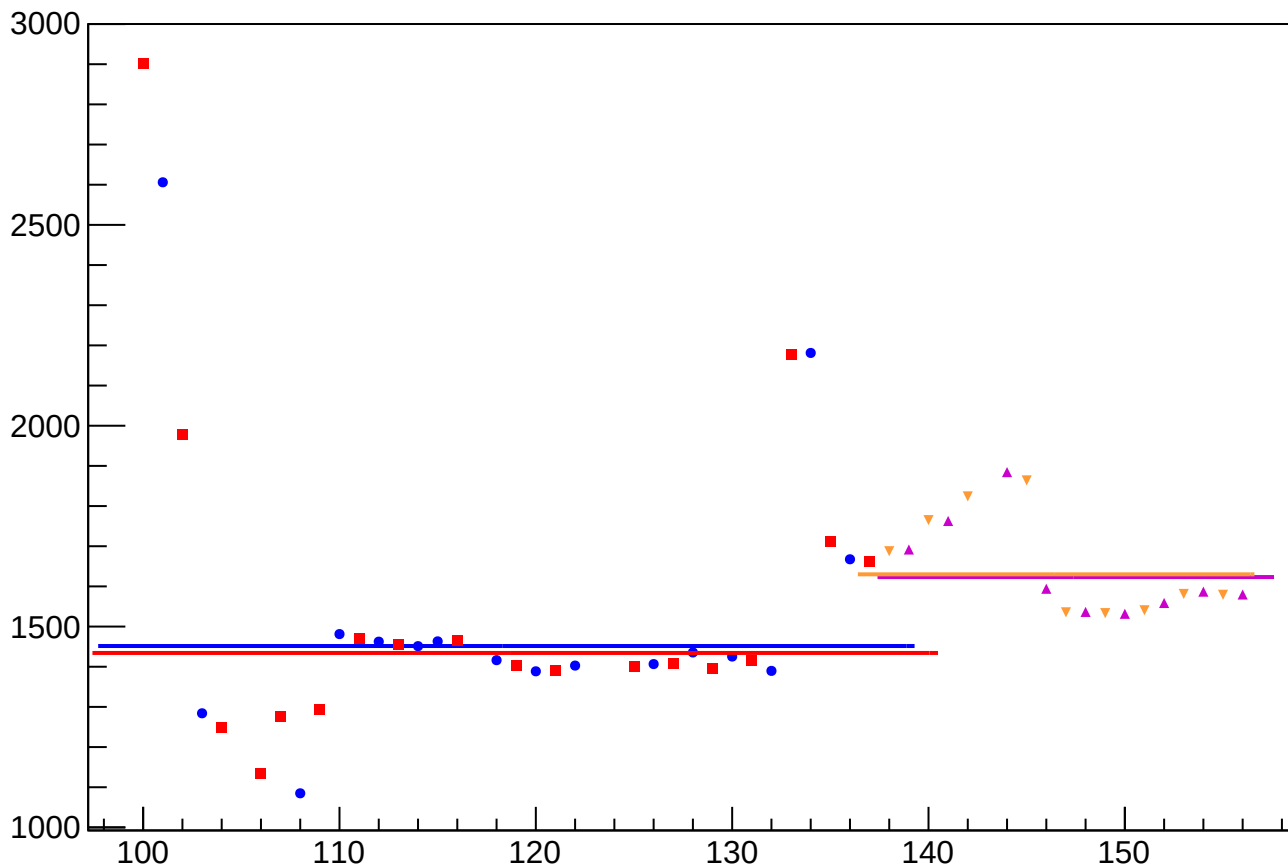
Right: 256.819 ± 387.129 χ^2/NDF : 43.9/33

In: 207.391 ± 399.266 χ^2/NDF : 26.3/24

Out: -272.167 ± 408.342 χ^2/NDF : 38.2/26

All: -26.999 ± 285.479 χ^2/NDF : 65.2/51

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1451.579 ± 0.389

$\chi^2/\text{NDF}: 487836.2/15$

Left: 1626.451 ± 0.299 $\chi^2/\text{NDF}: 135151.4/17$

Right: 1442.883 ± 0.274 $\chi^2/\text{NDF}: 817420.3/33$

Left Out: 1630.030 ± 0.436

$\chi^2/\text{NDF}: 69031.6/8$

In: 1532.671 ± 0.282 $\chi^2/\text{NDF}: 646000.6/24$

Right Out: 1434.321 ± 0.386

$\chi^2/\text{NDF}: 328590.5/17$

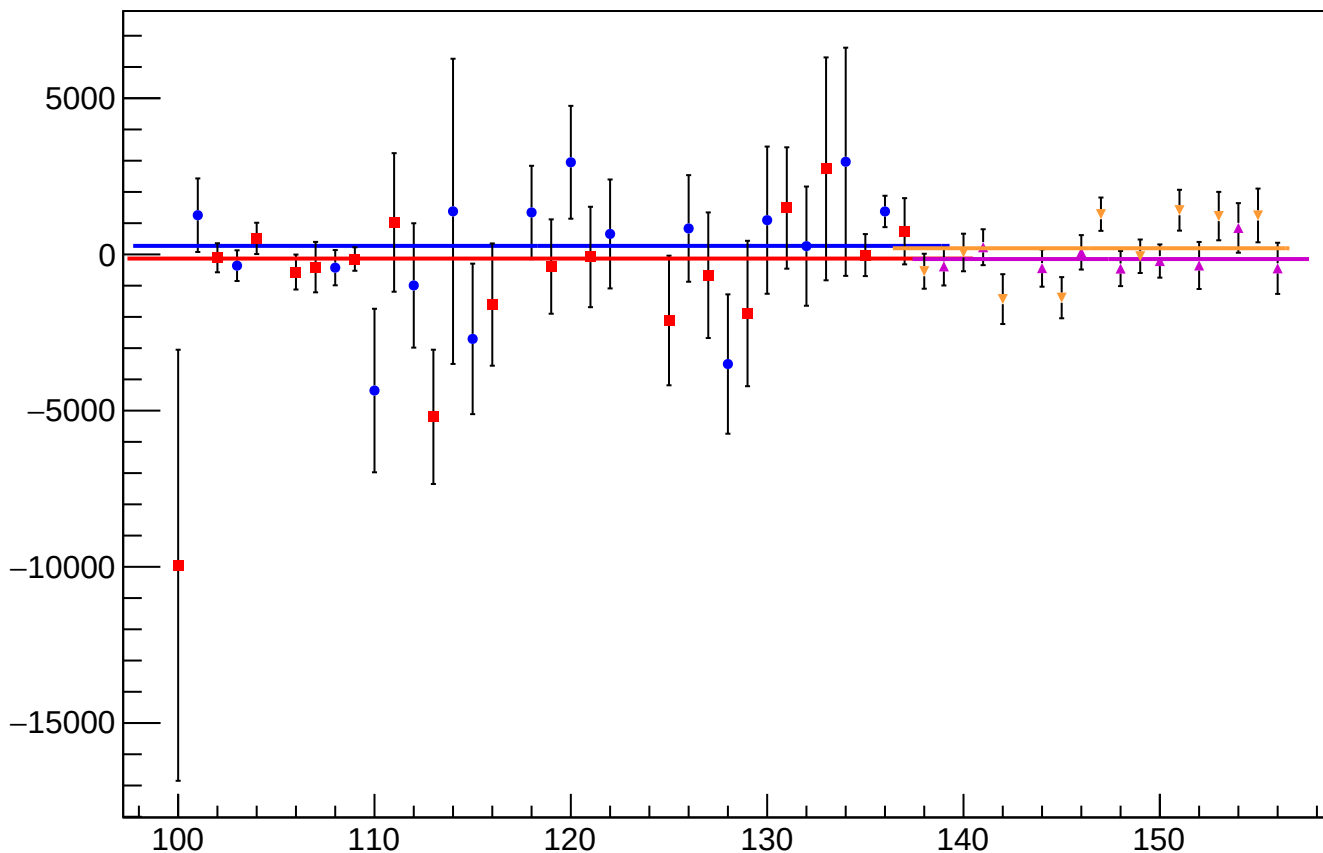
Out: 1520.305 ± 0.289 $\chi^2/\text{NDF}: 510785.0/26$

Left In: 1623.268 ± 0.411

$\chi^2/\text{NDF}: 65992.3/8$

All: 1526.627 ± 0.202 $\chi^2/\text{NDF}: 1157723.3/51$

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 273.429 $\pm$ 260.536 χ^2 /NDF: 20.2/15

Left Out: 197.475 $\pm$ 212.300 χ^2 /NDF:22.9/8

Right Out: -132.567 $\pm$ 195.935 χ^2 /NDF: 14.4/17

Left In: -147.906 $\pm$ 206.912 χ^2 /NDF:3.1/8

Left: 20.346 $\pm$ 148.177 χ^2 /NDF: 27.3/17

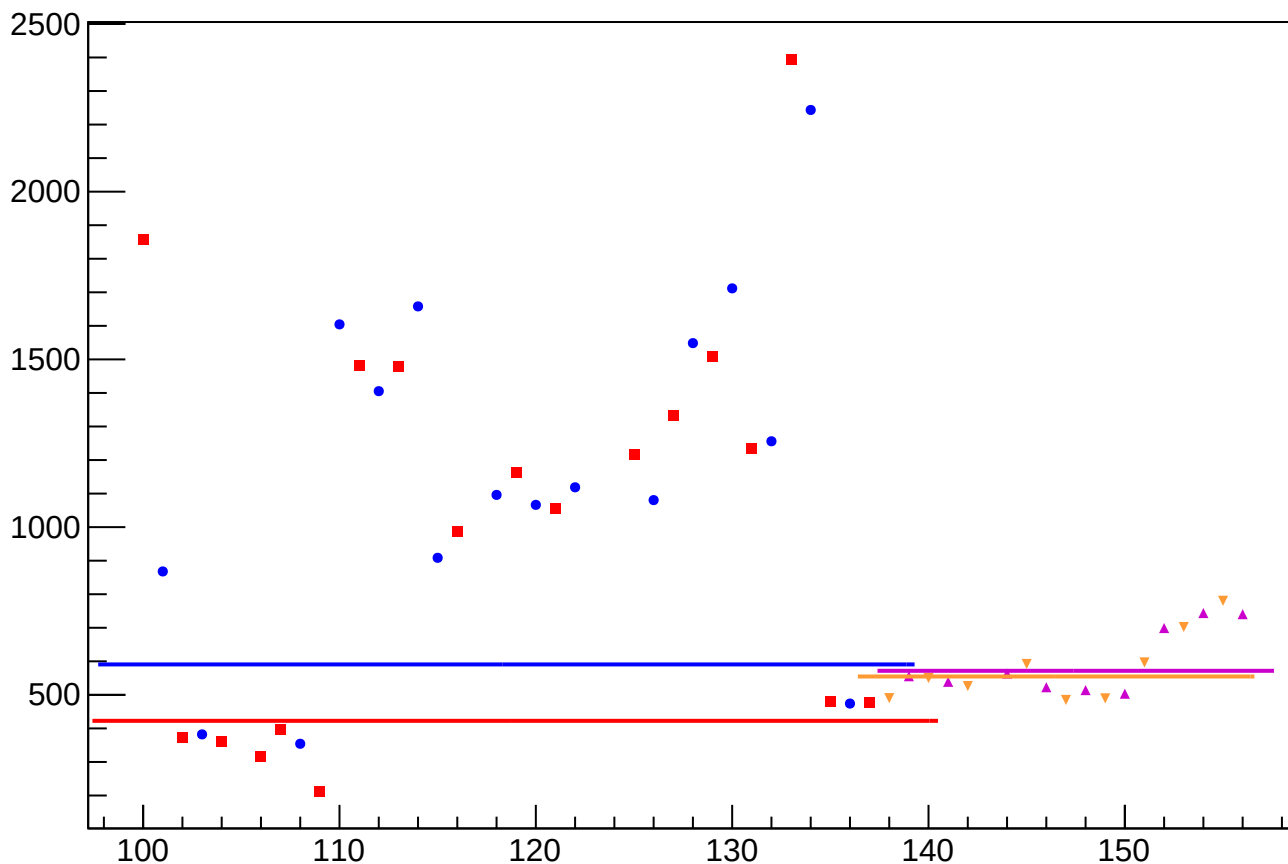
Right: 14.101 $\pm$ 156.594 χ^2 /NDF: 36.2/33

In: 15.055 $\pm$ 162.030 χ^2 /NDF:24.9/24

Out: 19.244 $\pm$ 143.985 χ^2 /NDF:38.6/26

All: 17.396 $\pm$ 107.630 χ^2 /NDF: 63.5/51

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: 554.766+/-0.150

χ^2/NDF : 318076.3/8

Right Out: 422.634+/-0.139

χ^2/NDF : 4857932.7/17

Left In: 571.737+/-0.146

χ^2/NDF : 314504.9/8

Left: 563.470+/-0.105

χ^2/NDF : 639136.3/17

Right: 483.366+/-0.111

χ^2/NDF : 9275354.4/33

In: 579.090+/-0.115

χ^2/NDF : 4206564.7/24

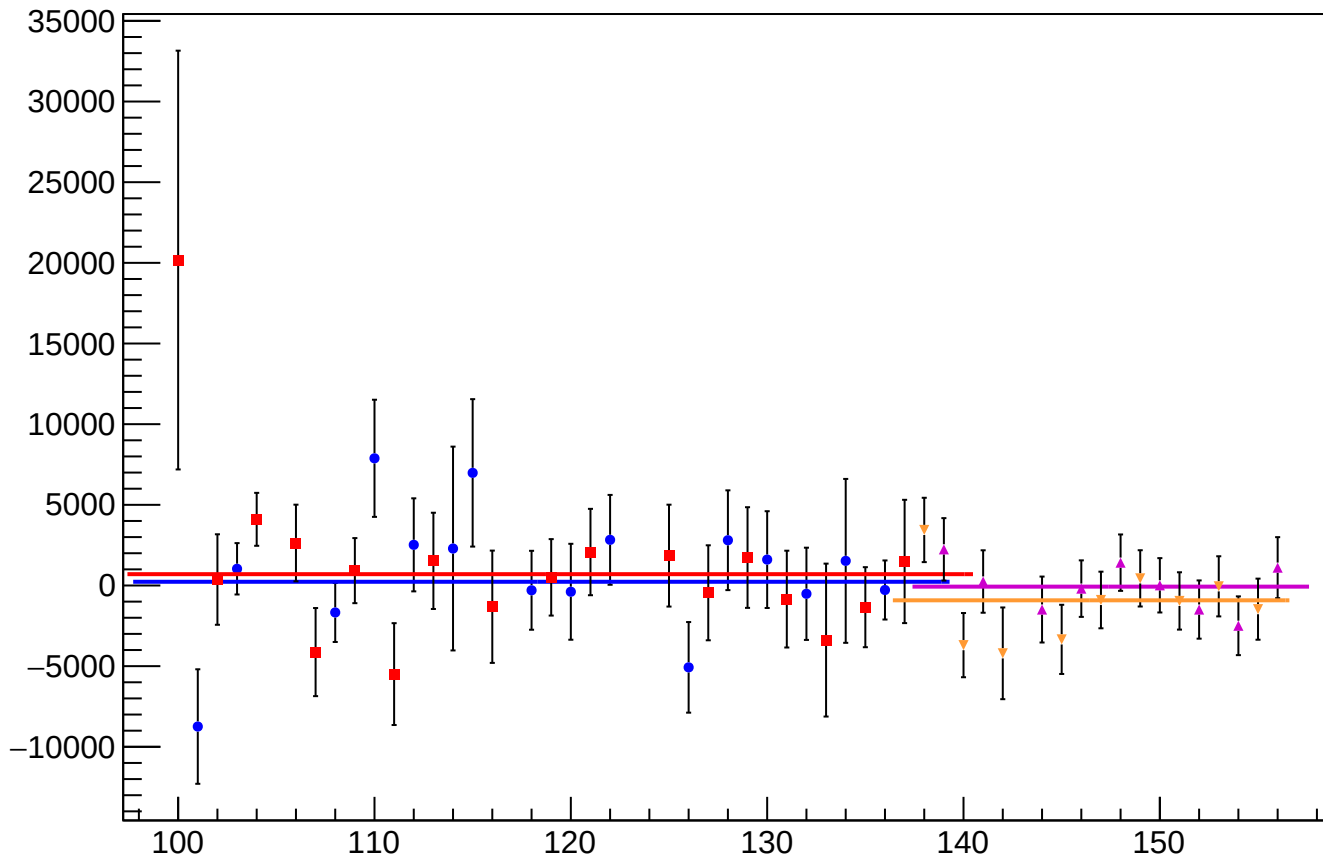
Out: 483.412+/-0.102

χ^2/NDF : 5594372.5/26

All: 525.628+/-0.076

χ^2/NDF : 10190602.9/53

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: -918.795 $\pm$ 647.924 χ^2 /NDF:10.3/8

Right Out: 702.268 $\pm$ 648.319 χ^2 /NDF: 17.0/17

Left In: -70.900 $\pm$ 612.353 χ^2 /NDF:5.4/8

Left: -470.935 $\pm$ 445.043 χ^2 /NDF: 16.6/17

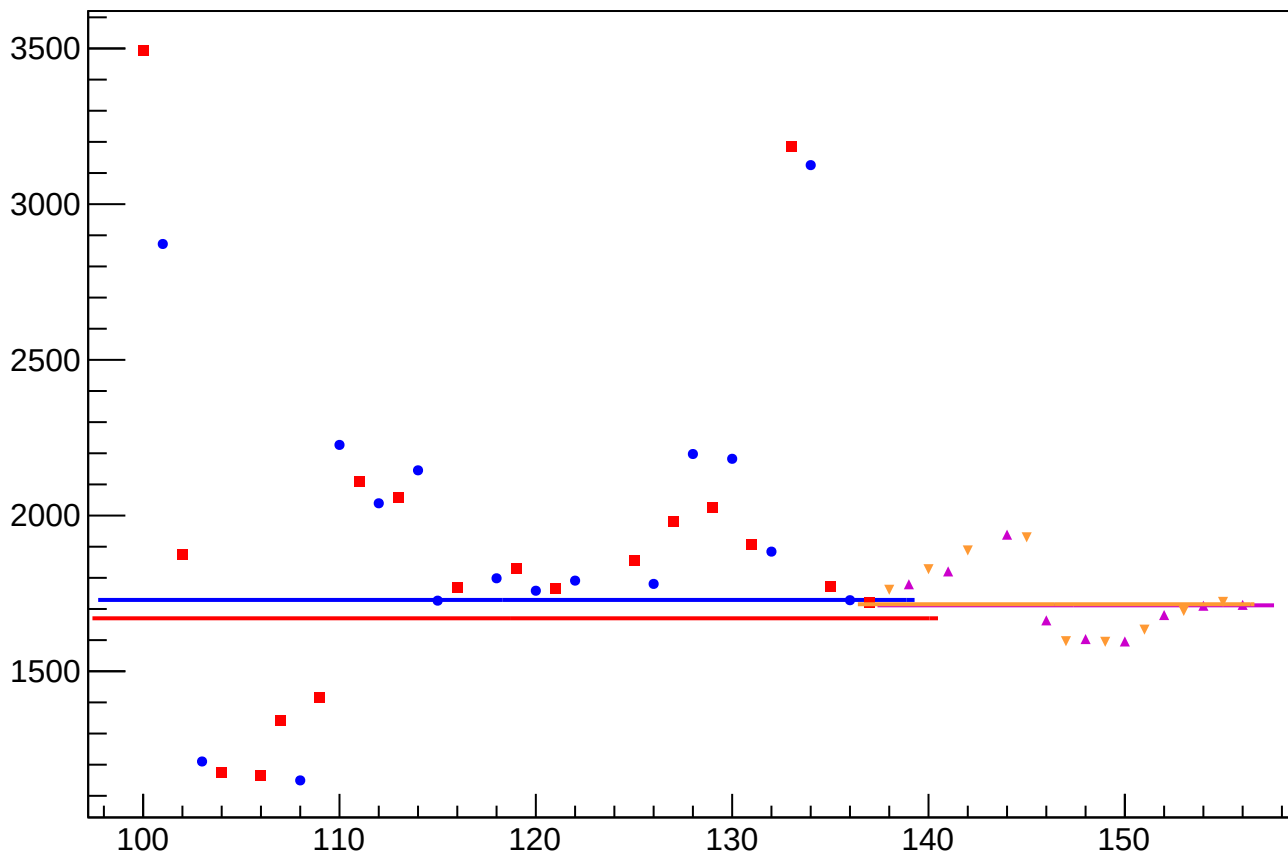
Right: 472.942 $\pm$ 464.638 χ^2 /NDF: 38.0/33

In: 67.239 $\pm$ 450.848 χ^2 /NDF:26.3/24

Out: -108.757 $\pm$ 458.291 χ^2 /NDF:30.4/26

All: -19.318 $\pm$ 321.397 χ^2 /NDF: 56.8/51

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: 1715.207+/-0.458 χ^2/NDF : 58187.1/8

Right Out: 1670.056+/-0.458 χ^2/NDF : 744452.0/17

Left In: 1711.731+/-0.433 χ^2/NDF : 52724.1/8

Left: 1713.371+/-0.315 χ^2/NDF : 110941.6/17

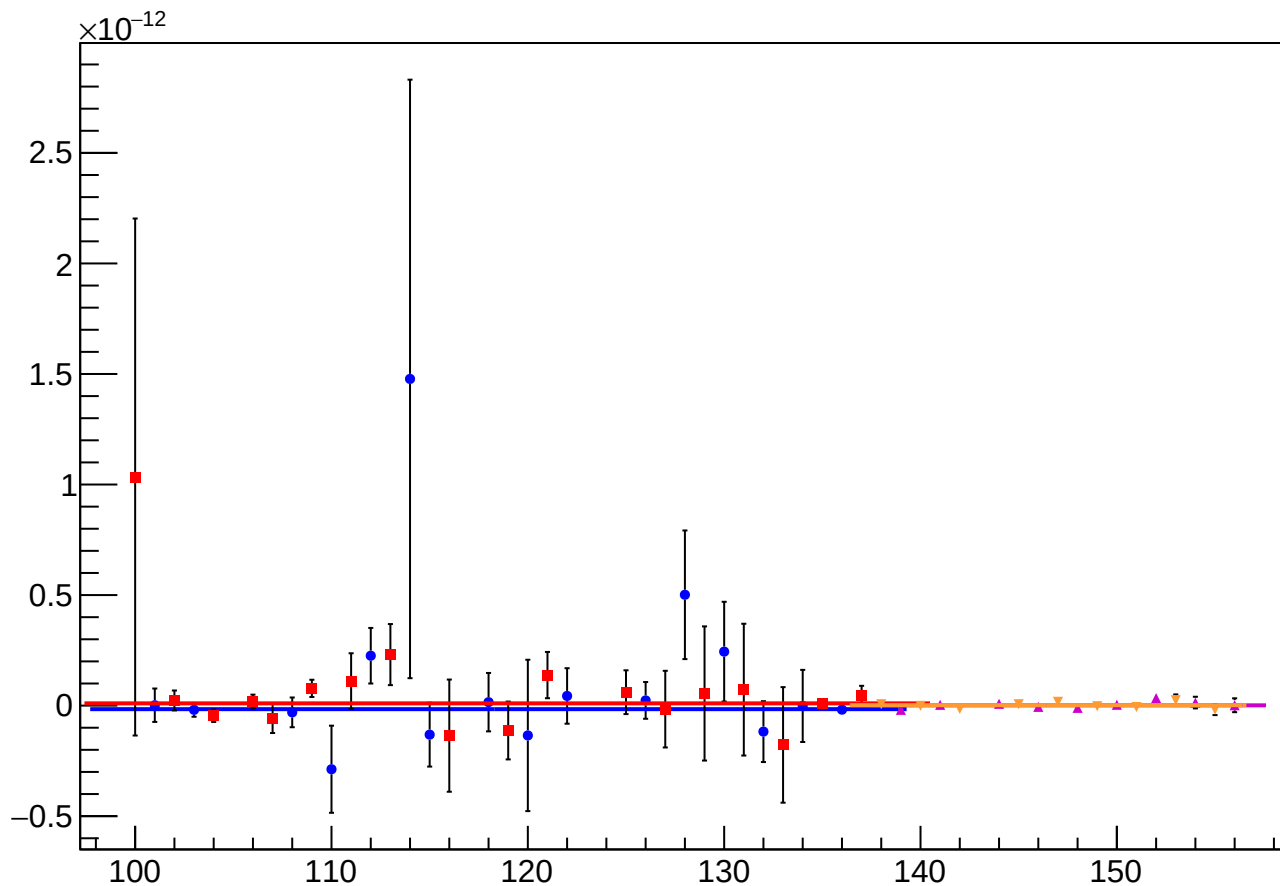
Right: 1698.749+/-0.329 χ^2/NDF : 1694585.4/33

In: 1719.662+/-0.319 χ^2/NDF : 995535.8/24

Out: 1692.645+/-0.324 χ^2/NDF : 807492.1/26

All: 1706.374+/-0.227 χ^2/NDF : 1806560.0/51

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 : 3.9/8

Right Out: 0.000+/-0.000 χ^2/NDF : 16.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 5.8/8

Left: 0.000+/-0.000 χ^2/NDF : 9.7/17

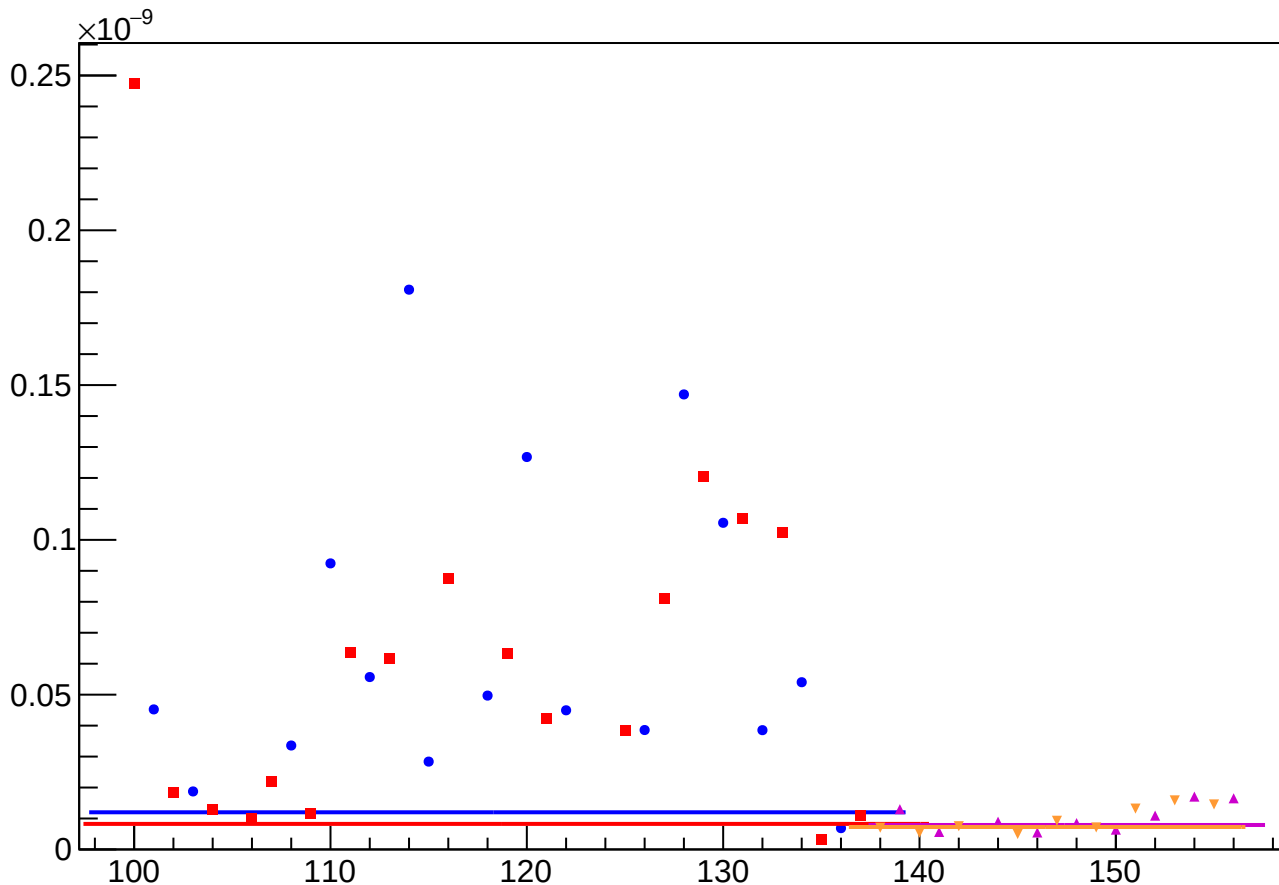
Right: -0.000+/-0.000 χ^2/NDF : 33.5/33

In: -0.000+/-0.000 χ^2/NDF : 21.4/24

Out: 0.000+/-0.000 χ^2/NDF : 21.0/26

All: 0.000+/-0.000 χ^2/NDF : 43.4/51

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 : 796247.7/8

Right Out: 0.000+/-0.000 χ^2/NDF : 3510130.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 867440.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1682893.3/17

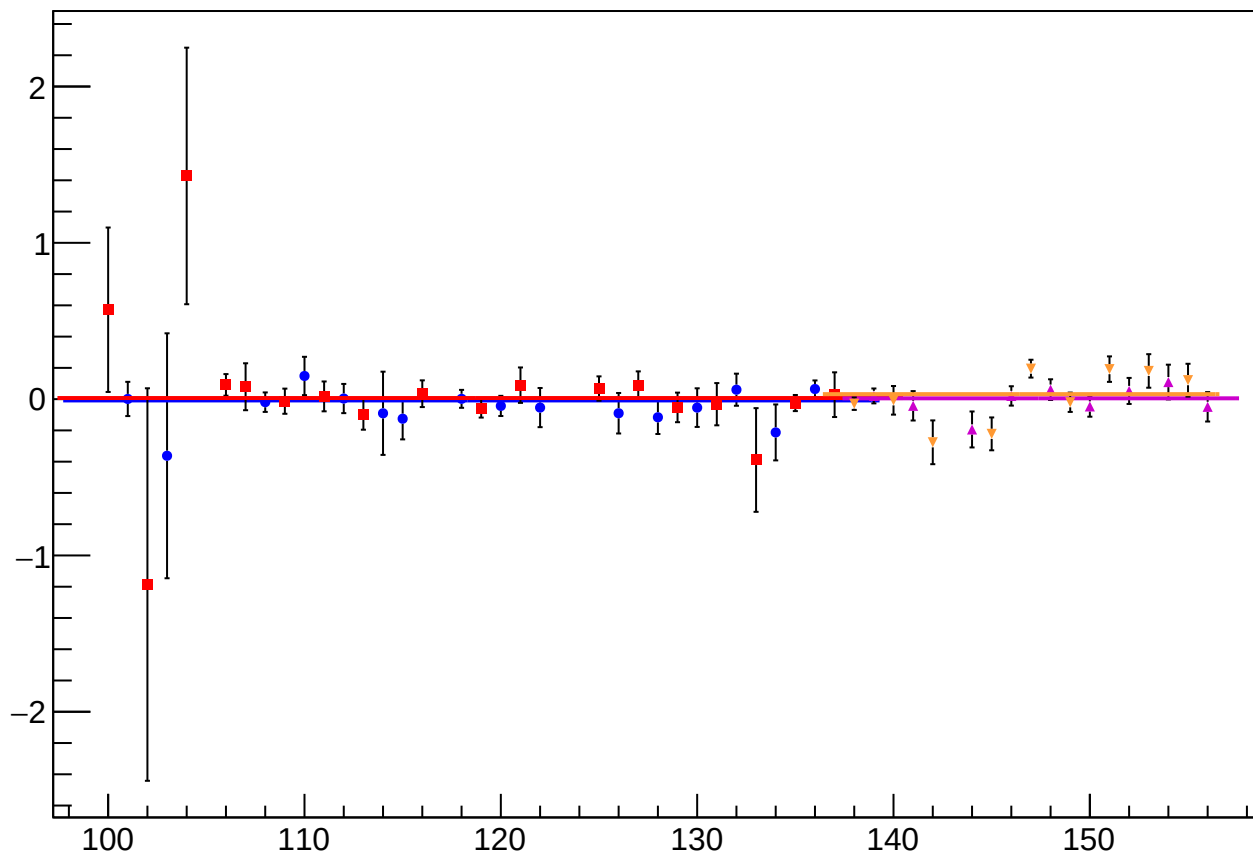
Right: 0.000+/-0.000 χ^2/NDF : 7091803.5/33

In: 0.000+/-0.000 χ^2/NDF : 4557867.2/24

Out: 0.000+/-0.000 χ^2/NDF : 4326833.6/26

All: 0.000+/-0.000 χ^2/NDF : 8958049.1/51

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 $\chi^2/\text{NDF}: 8.3/15$

Left Out: 0.032 ± 0.024 $\chi^2/\text{NDF}: 28.6/8$

Right Out: 0.007 ± 0.022 $\chi^2/\text{NDF}: 13.7/17$

Left In: 0.005 ± 0.024 $\chi^2/\text{NDF}: 6.3/8$

Left: 0.019 ± 0.017 $\chi^2/\text{NDF}: 35.5/17$

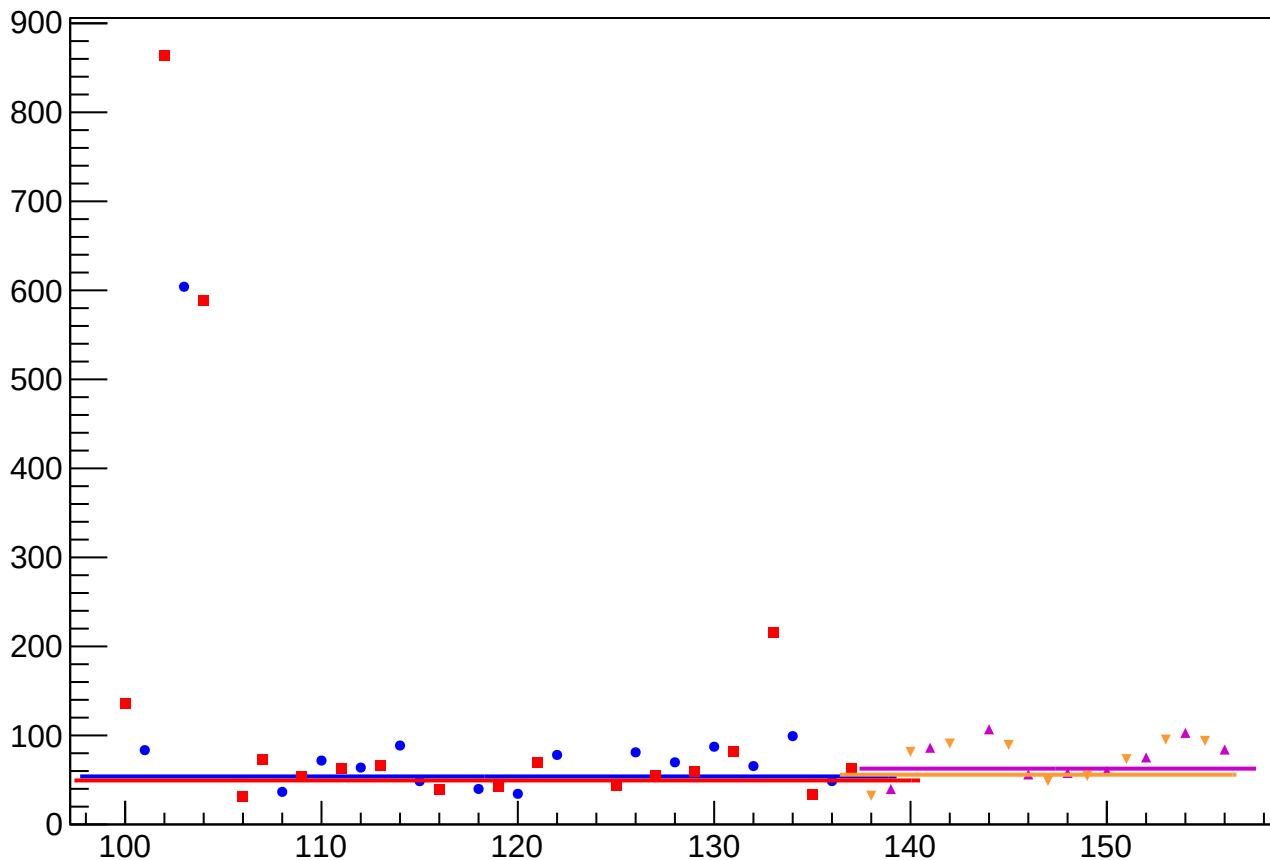
Right: -0.000 ± 0.016 $\chi^2/\text{NDF}: 22.2/33$

In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 14.7/24$

Out: 0.019 ± 0.016 $\chi^2/\text{NDF}: 42.8/26$

All: 0.009 ± 0.012 $\chi^2/\text{NDF}: 58.3/51$

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: 55.873+/-0.017 χ^2/NDF : 1839111.9/8

Right Out: 49.420+/-0.016 χ^2/NDF : 3017719.3/17

Left In: 62.703+/-0.017 χ^2/NDF : 1328927.3/8

Left: 59.193+/-0.012 χ^2/NDF : 3248979.0/17

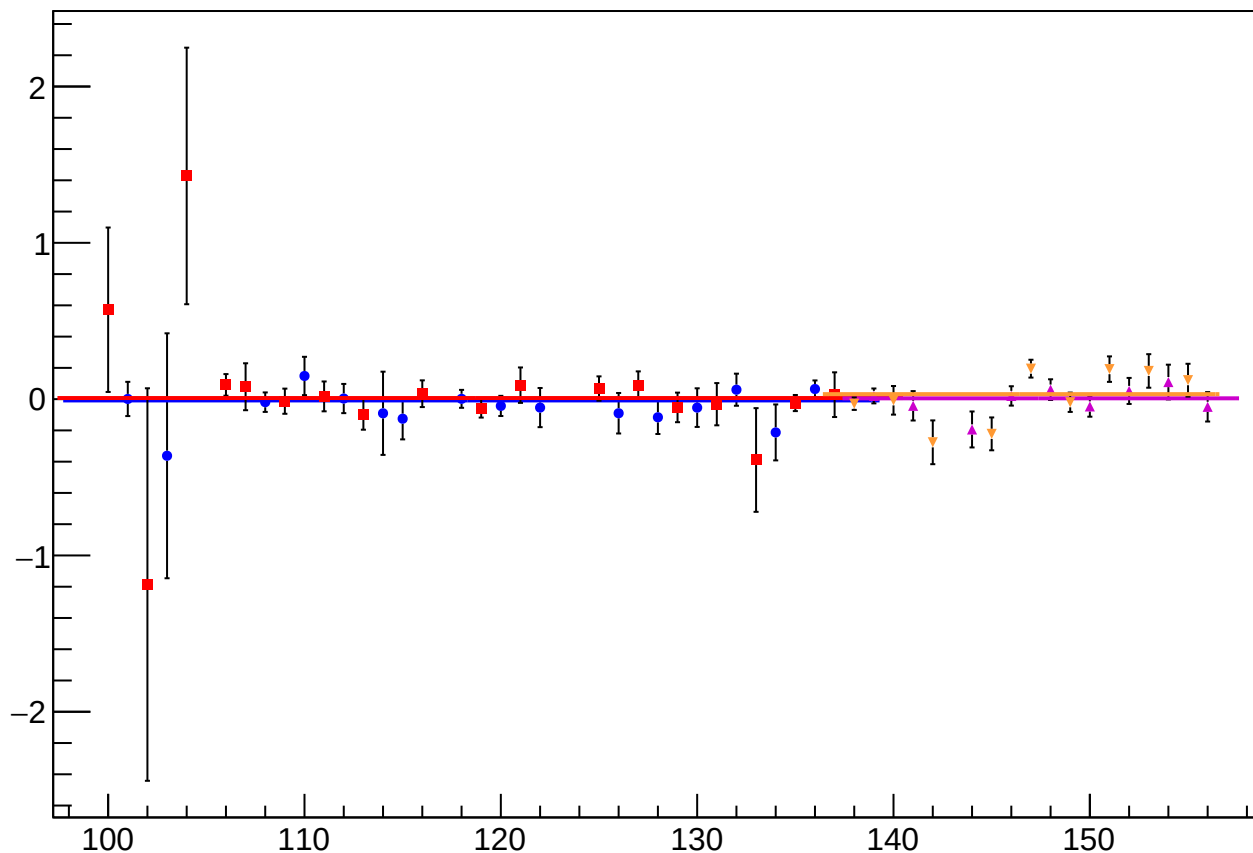
Right: 51.585+/-0.011 χ^2/NDF : 5271581.7/33

In: 58.087+/-0.012 χ^2/NDF : 3680066.5/24

Out: 52.443+/-0.011 χ^2/NDF : 4935852.1/26

All: 55.170+/-0.008 χ^2/NDF : 8733167.2/51

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 $\chi^2/\text{NDF}: 8.3/15$

Left Out: 0.032 ± 0.024 $\chi^2/\text{NDF}: 28.6/8$

Right Out: 0.007 ± 0.022 $\chi^2/\text{NDF}: 13.7/17$

Left In: 0.005 ± 0.024 $\chi^2/\text{NDF}: 6.3/8$

Left: 0.019 ± 0.017 $\chi^2/\text{NDF}: 35.5/17$

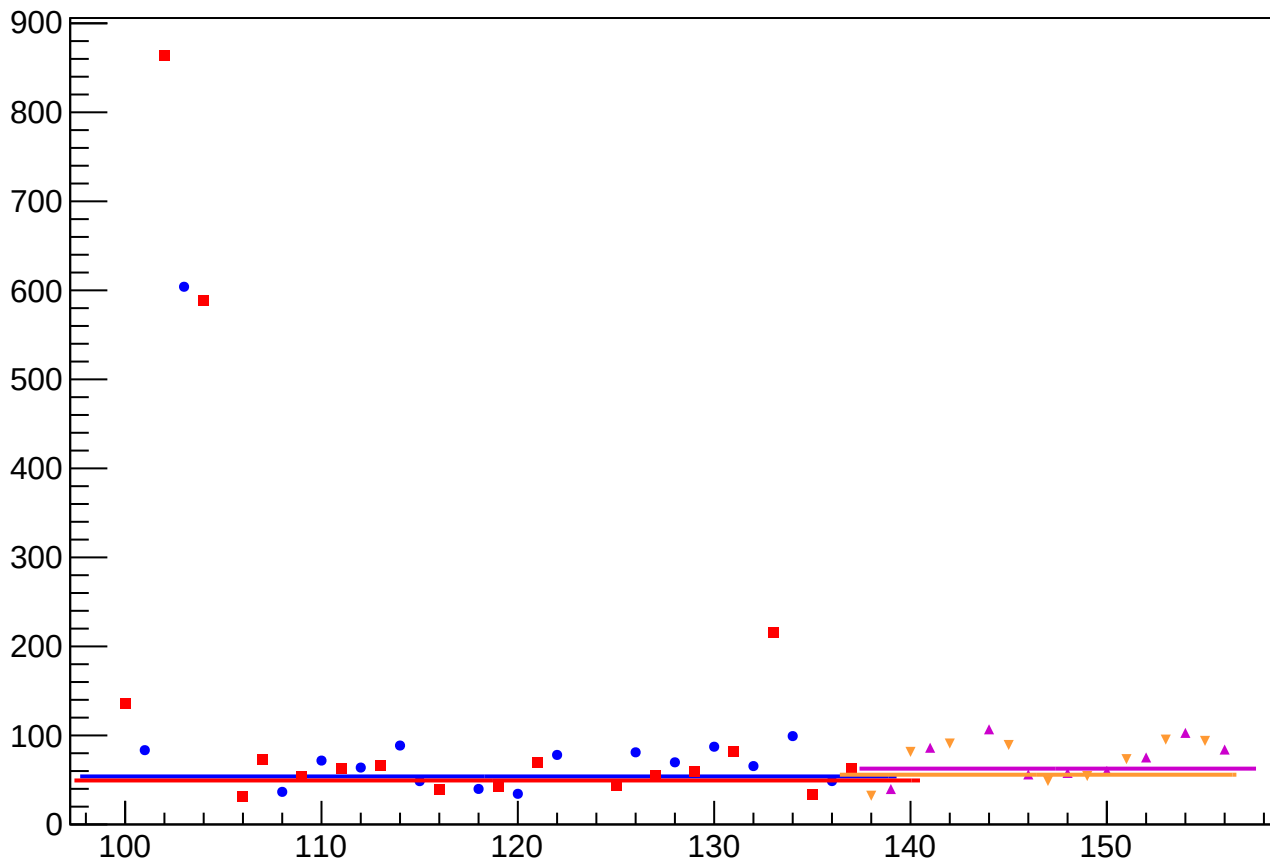
Right: -0.000 ± 0.016 $\chi^2/\text{NDF}: 22.2/33$

In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 14.7/24$

Out: 0.019 ± 0.016 $\chi^2/\text{NDF}: 42.8/26$

All: 0.009 ± 0.012 $\chi^2/\text{NDF}: 58.3/51$

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.926+/-0.016 χ^2/NDF : 2214348.1/15

Left Out: 55.873+/-0.017 χ^2/NDF : 1839111.9/8

Right Out: 49.420+/-0.016 χ^2/NDF : 3017719.3/17

Left In: 62.703+/-0.017 χ^2/NDF : 1328927.3/8

Left: 59.193+/-0.012 χ^2/NDF : 3248979.0/17

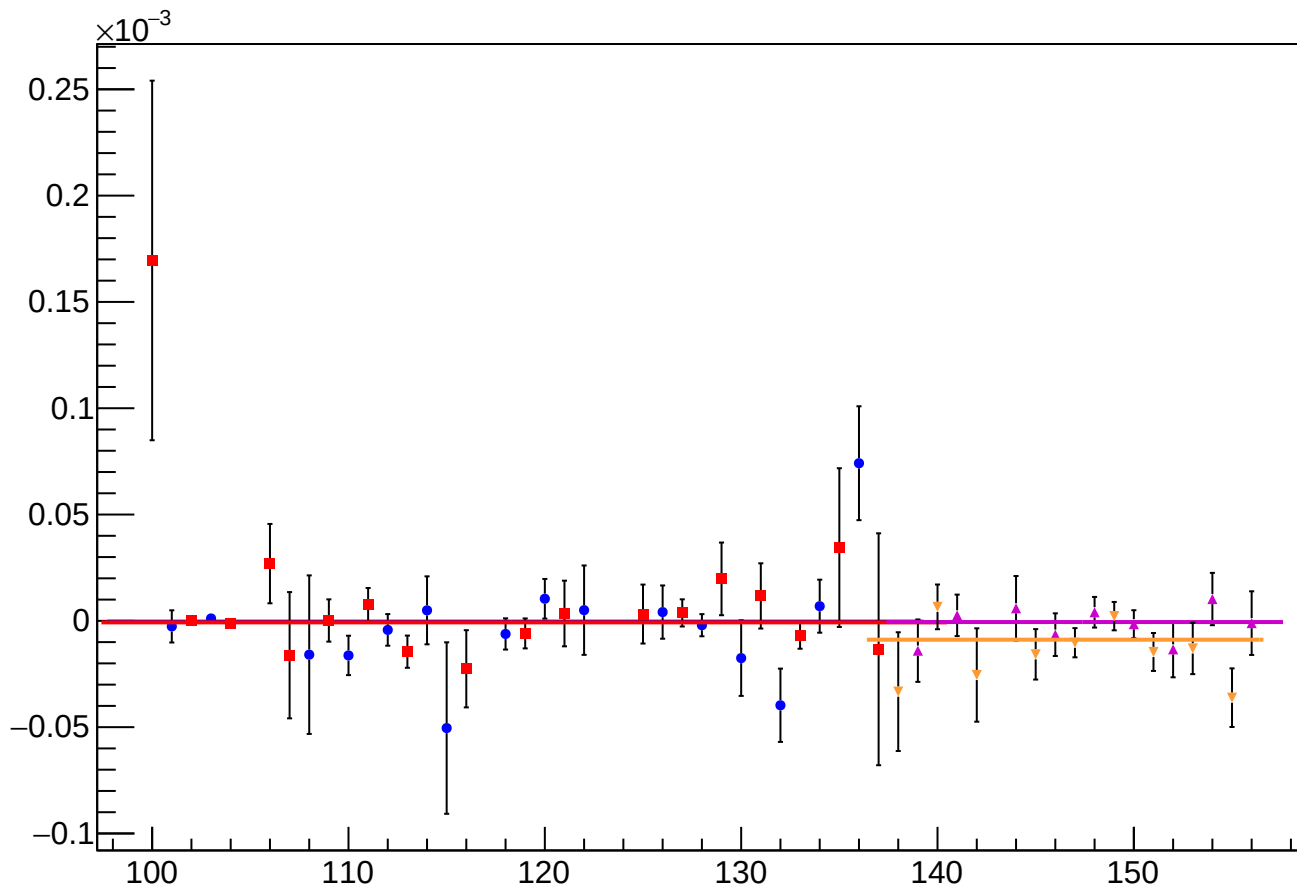
Right: 51.585+/-0.011 χ^2/NDF : 5271581.7/33

In: 58.087+/-0.012 χ^2/NDF : 3680066.5/24

Out: 52.443+/-0.011 χ^2/NDF : 4935852.1/26

All: 55.170+/-0.008 χ^2/NDF : 8733167.2/51

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 : 11.1/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.6/8

Left: -0.000+/-0.000 χ^2/NDF : 17.8/17

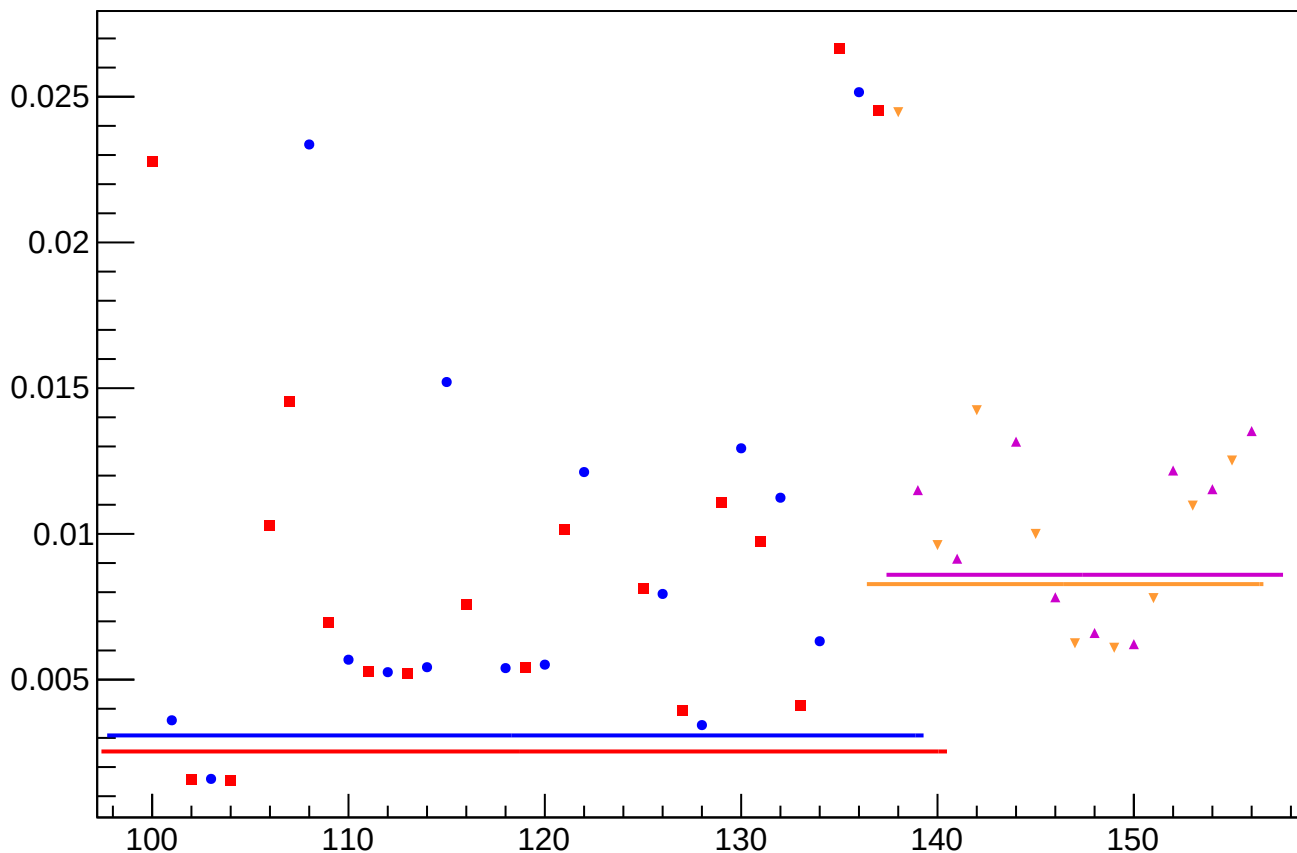
Right: -0.000+/-0.000 χ^2/NDF : 40.0/33

In: -0.000+/-0.000 χ^2/NDF : 25.8/24

Out: -0.000+/-0.000 χ^2/NDF : 34.0/26

All: -0.000+/-0.000 χ^2/NDF : 60.3/51

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: 0.008+/-0.000 χ^2/NDF :1578122.9/8

Right Out: 0.003+/-0.000 χ^2/NDF : 6237059.6/17

Left In: 0.009+/-0.000 χ^2/NDF :1172779.1/8

Left: 0.008+/-0.000 χ^2/NDF : 2759933.5/17

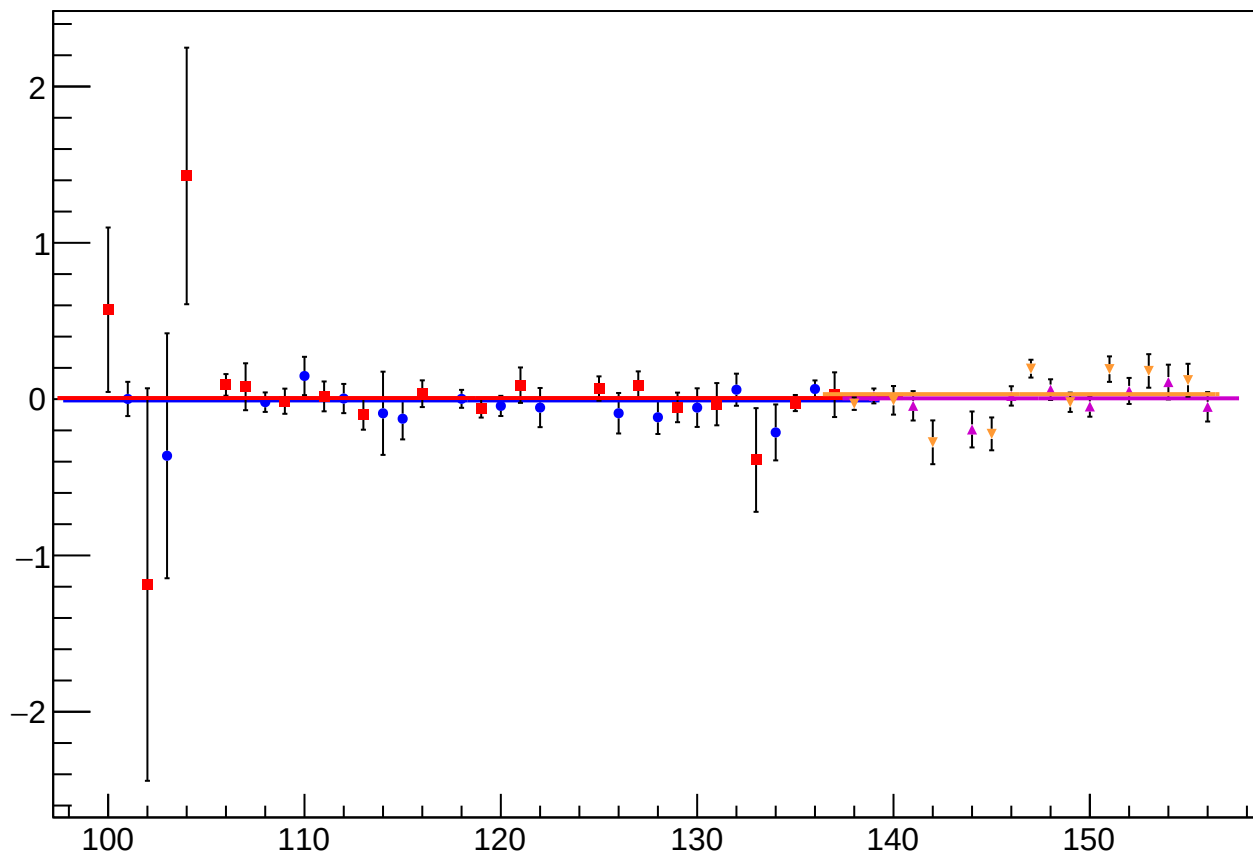
Right: 0.003+/-0.000 χ^2/NDF : 12159145.0/33

In: 0.004+/-0.000 χ^2/NDF :11322634.2/24

Out: 0.003+/-0.000 χ^2/NDF :12890219.7/26

All: 0.004+/-0.000 χ^2/NDF : 24650271.1/51

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: 0.032 ± 0.024 χ^2/NDF : 28.6/8

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.005 ± 0.024 χ^2/NDF : 6.3/8

Left: 0.019 ± 0.017 χ^2/NDF : 35.5/17

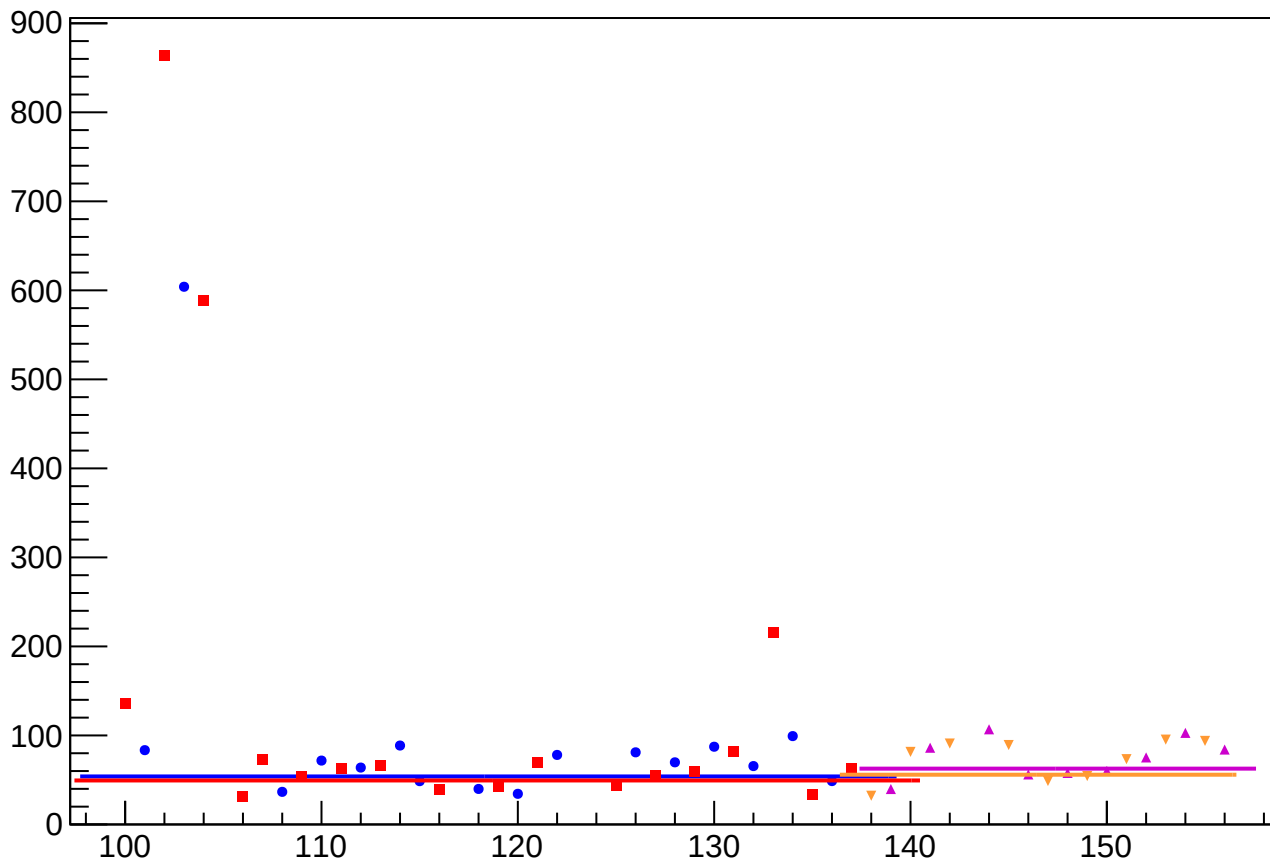
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.002 ± 0.017 χ^2/NDF : 14.7/24

Out: 0.019 ± 0.016 χ^2/NDF : 42.8/26

All: 0.009 ± 0.012 χ^2/NDF : 58.4/51

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: 55.878 $\pm$ 0.017 χ^2 /NDF: 1838447.1/8

Right Out: 49.422 $\pm$ 0.016 χ^2 /NDF: 3017440.2/17

Left In: 62.703 $\pm$ 0.017 χ^2 /NDF: 1329083.6/8

Left: 59.195 $\pm$ 0.012 χ^2 /NDF: 3248353.9/17

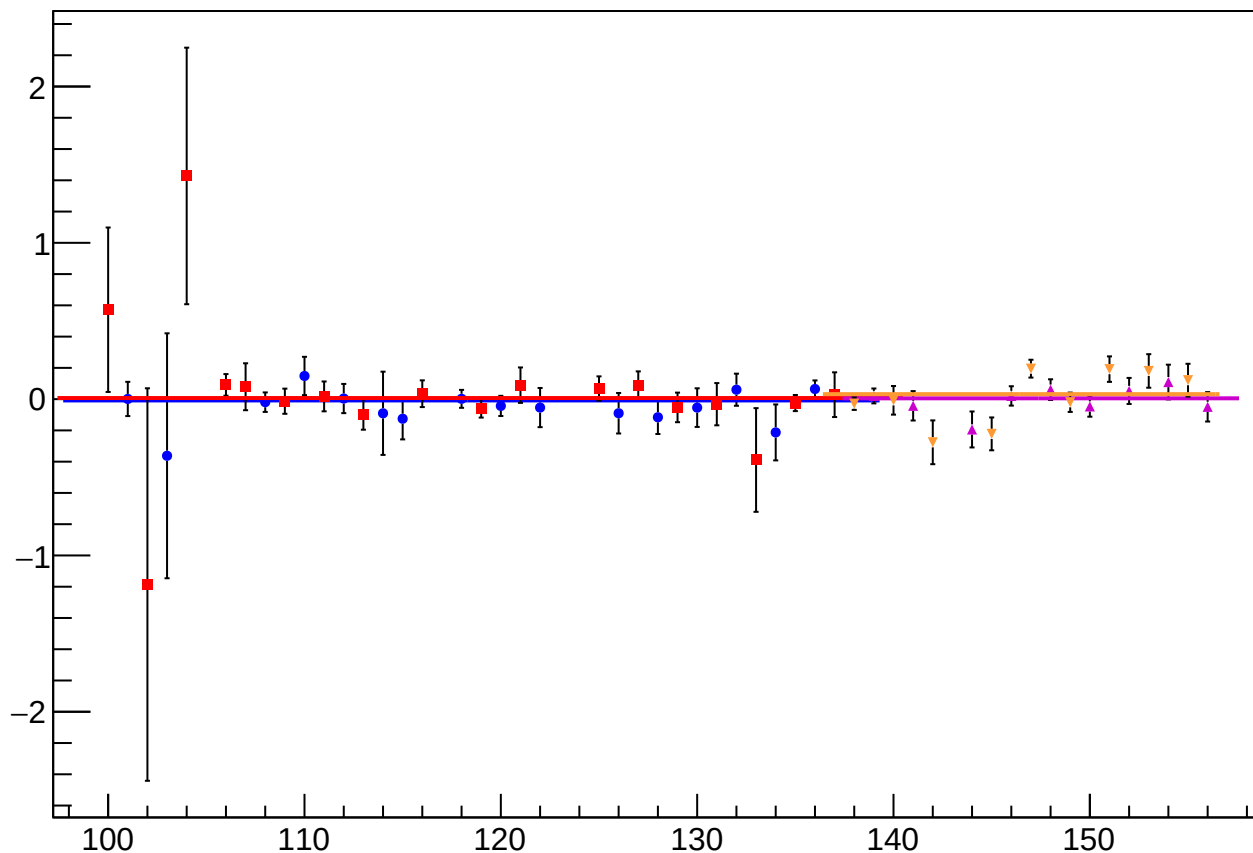
Right: 51.588 $\pm$ 0.011 χ^2 /NDF: 5270924.4/33

In: 58.089 $\pm$ 0.012 χ^2 /NDF: 3679694.8/24

Out: 52.446 $\pm$ 0.011 χ^2 /NDF: 4934954.2/26

All: 55.172 $\pm$ 0.008 χ^2 /NDF: 8731837.6/51

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: 0.032 ± 0.024 χ^2/NDF : 28.6/8

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.005 ± 0.024 χ^2/NDF : 6.3/8

Left: 0.019 ± 0.017 χ^2/NDF : 35.5/17

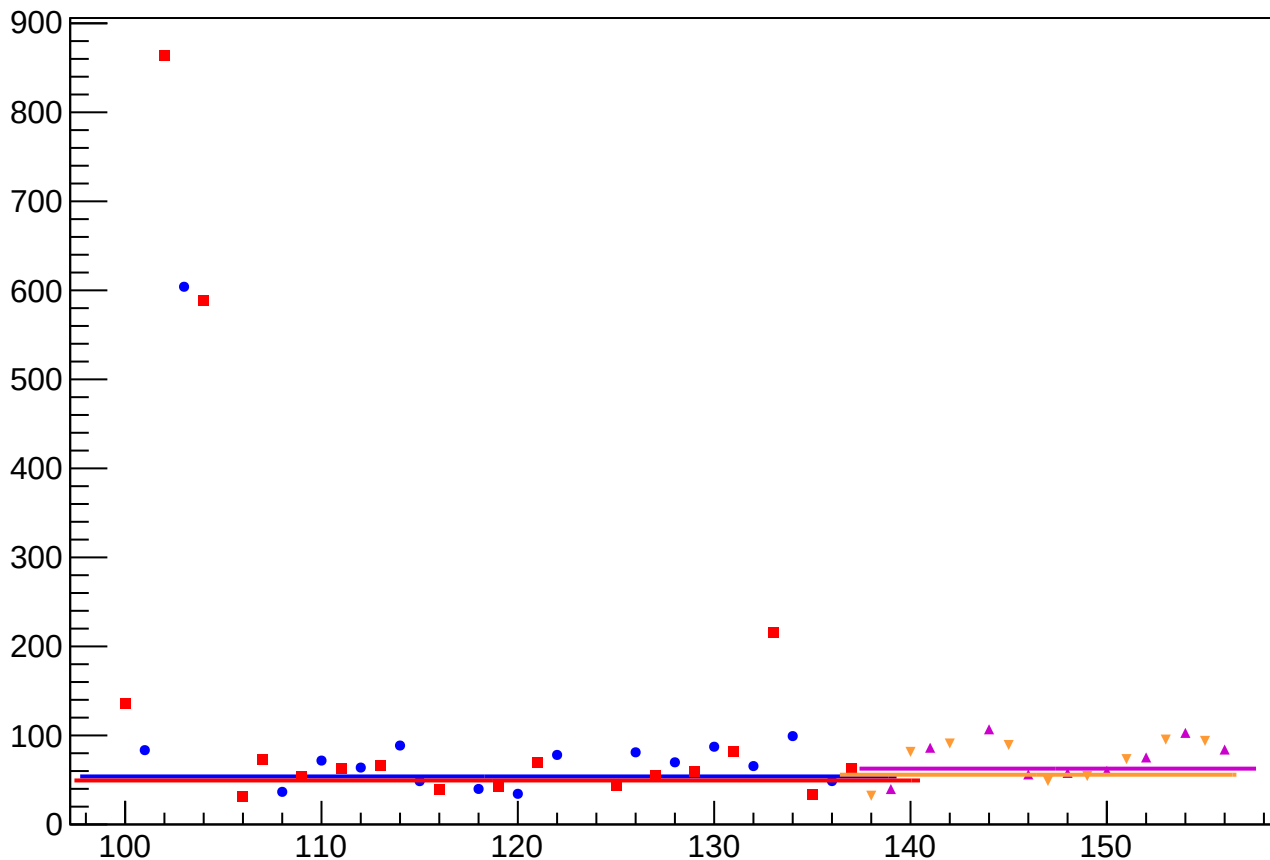
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.002 ± 0.017 χ^2/NDF : 14.7/24

Out: 0.019 ± 0.016 χ^2/NDF : 42.8/26

All: 0.009 ± 0.012 χ^2/NDF : 58.4/51

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.929 $\pm$ 0.016 χ^2 /NDF: 2213950.2/15

Left Out: 55.878 $\pm$ 0.017 χ^2 /NDF:1838447.1/8

Right Out: 49.422 $\pm$ 0.016 χ^2 /NDF: 3017440.2/17

Left In: 62.703 $\pm$ 0.017 χ^2 /NDF:1329083.6/8

Left: 59.195 $\pm$ 0.012 χ^2 /NDF: 3248353.9/17

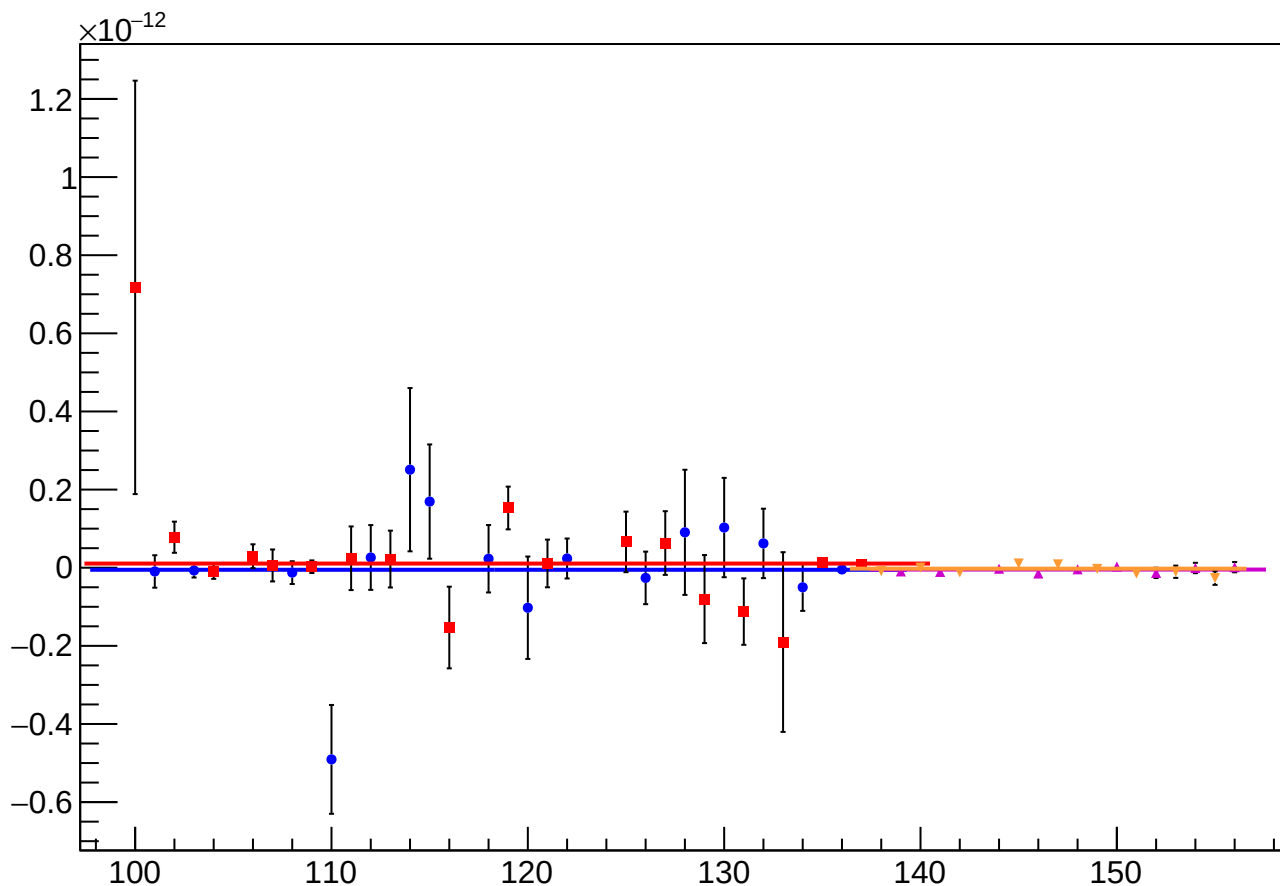
Right: 51.588 $\pm$ 0.011 χ^2 /NDF: 5270924.4/33

In: 58.089 $\pm$ 0.012 χ^2 /NDF:3679694.8/24

Out: 52.446 $\pm$ 0.011 χ^2 /NDF:4934954.2/26

All: 55.172 $\pm$ 0.008 χ^2 /NDF: 8731837.6/51

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 : 9.8/8

Right Out: 0.000+/-0.000 χ^2/NDF : 20.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 4.5/8

Left: -0.000+/-0.000 χ^2/NDF : 14.6/17

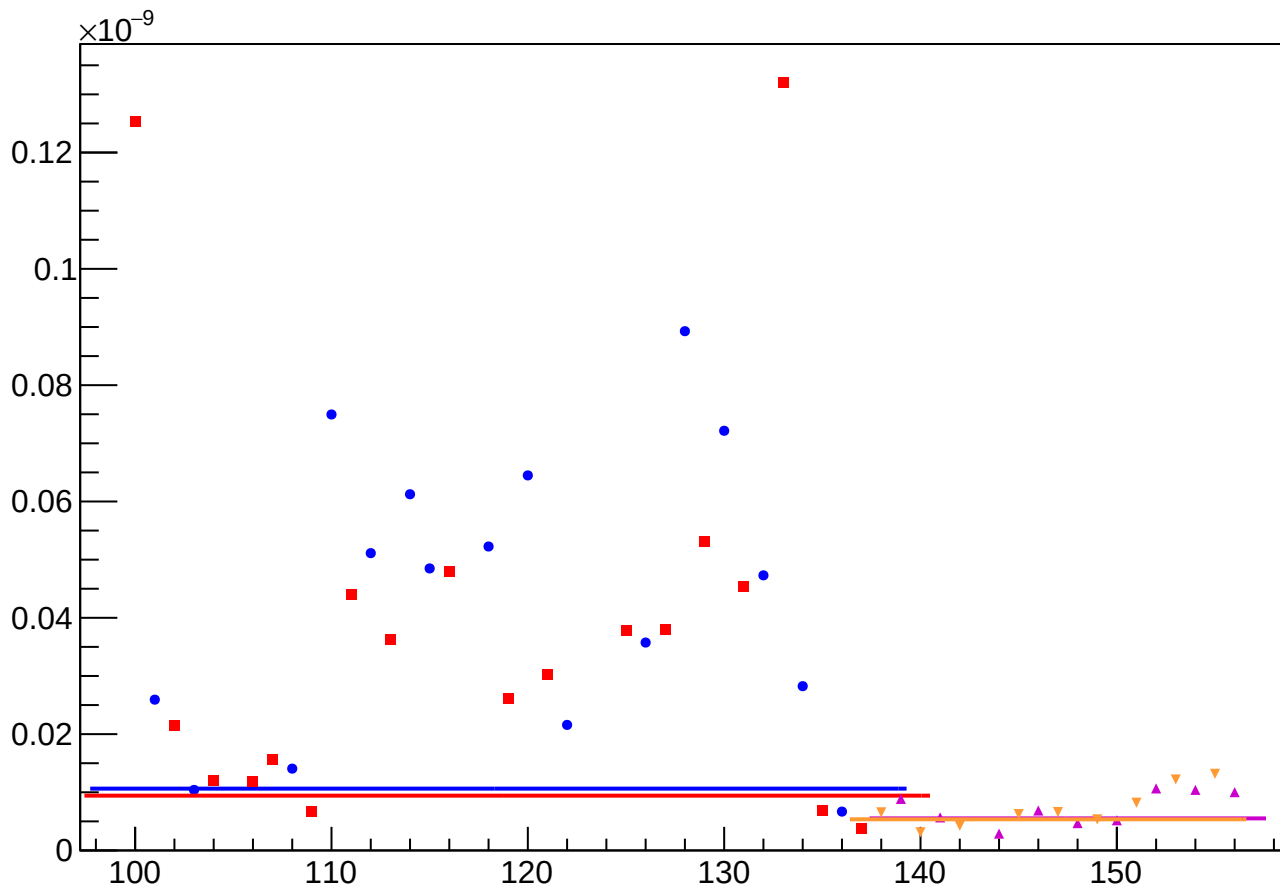
Right: 0.000+/-0.000 χ^2/NDF : 41.5/33

In: -0.000+/-0.000 χ^2/NDF : 23.1/24

Out: -0.000+/-0.000 χ^2/NDF : 33.3/26

All: -0.000+/-0.000 χ^2/NDF : 57.9/51

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 :1535462.9/8

Right Out: 0.000+/-0.000 χ^2/NDF : 4029424.5/17

Left In: 0.000+/-0.000 χ^2/NDF :1643101.2/8

Left: 0.000+/-0.000 χ^2/NDF : 3182037.3/17

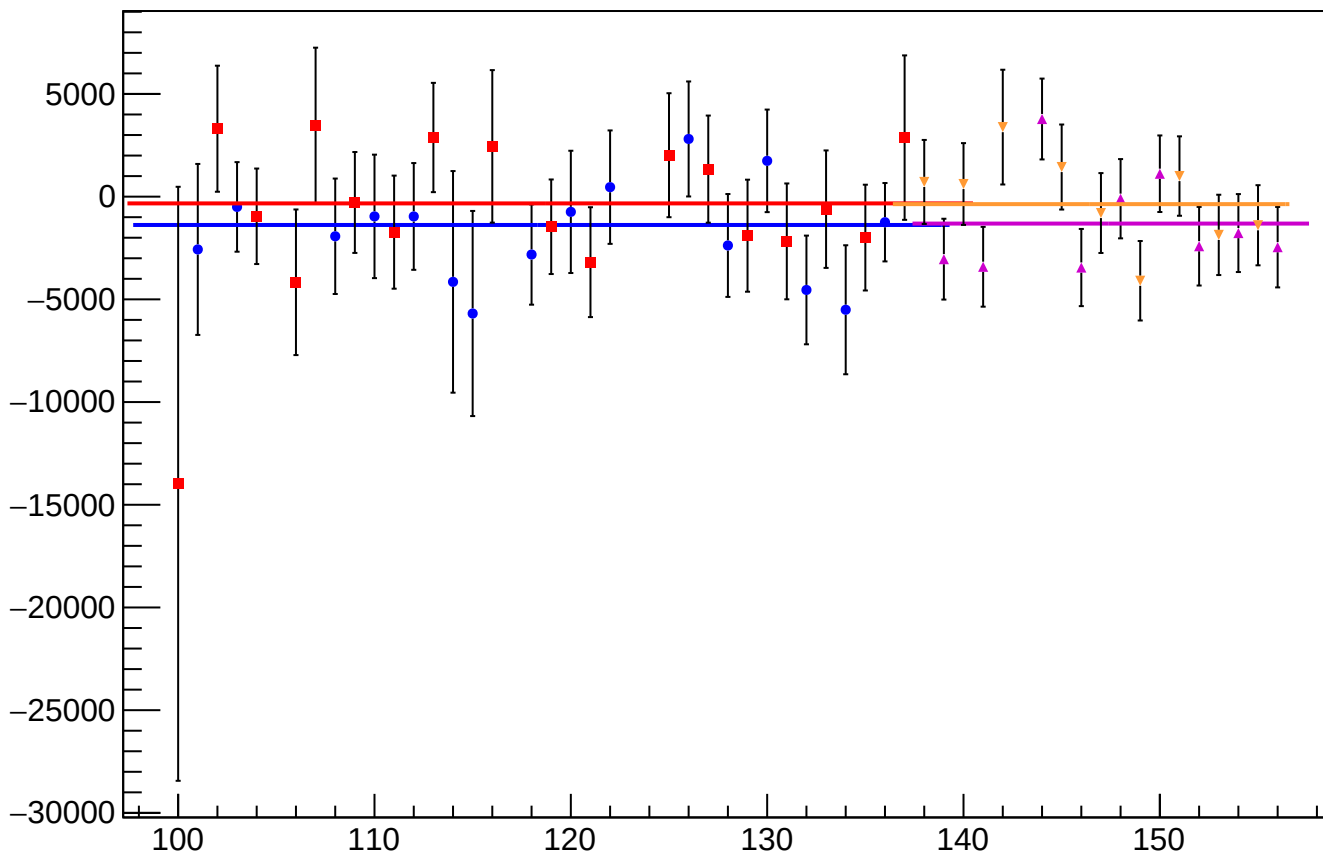
Right: 0.000+/-0.000 χ^2/NDF : 8619590.4/33

In: 0.000+/-0.000 χ^2/NDF :7172318.1/24

Out: 0.000+/-0.000 χ^2/NDF :6240212.2/26

All: 0.000+/-0.000 χ^2/NDF : 13420726.5/51

reg_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.758 $\pm$ 689.030 χ^2 /NDF: 9.3/15

Left Out: -364.540 $\pm$ 677.826 χ^2 /NDF:8.2/8

Right Out: -328.770 $\pm$ 683.888 χ^2 /NDF: 11.0/17

Left In: -1311.168 $\pm$ 641.179 χ^2 /NDF:12.8/8

Left: -864.135 $\pm$ 465.799 χ^2 /NDF: 22.0/17

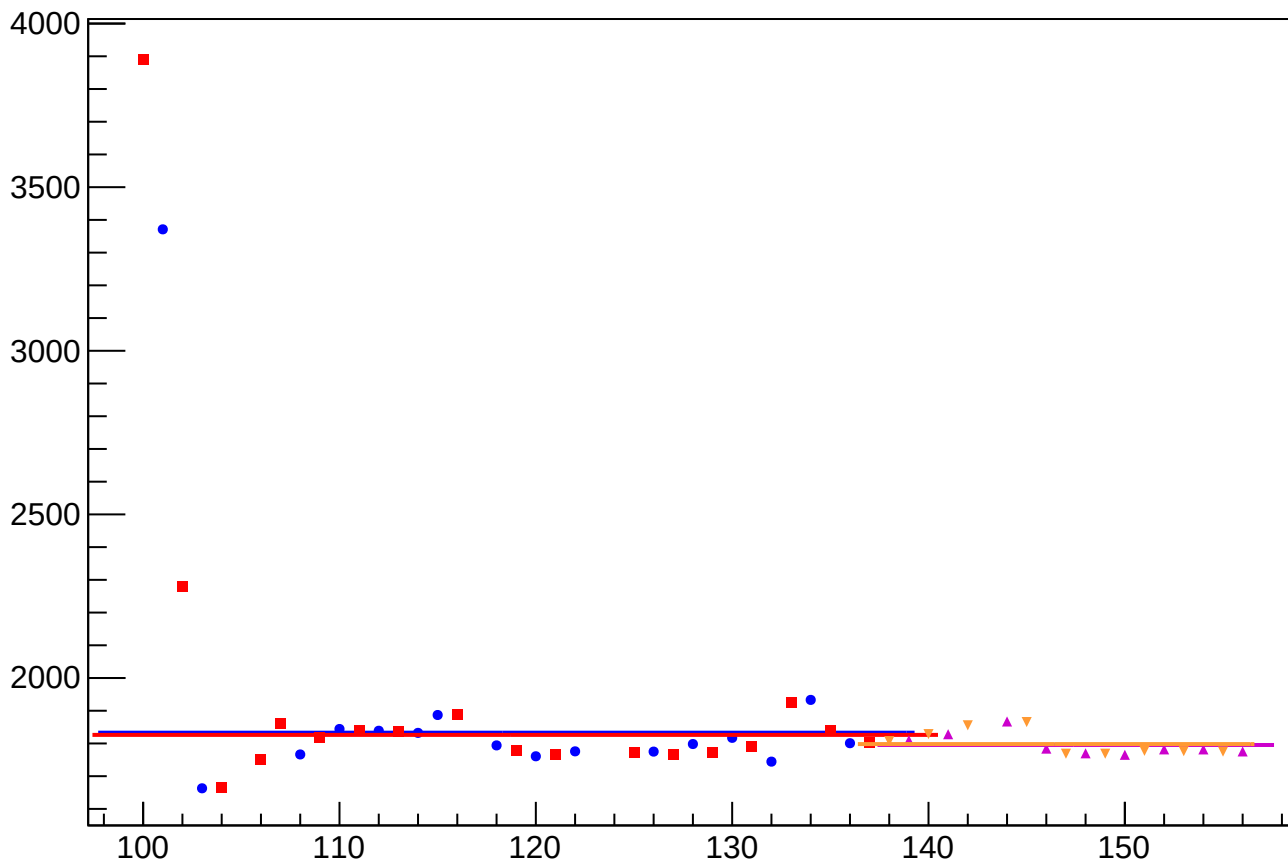
Right: -849.832 $\pm$ 485.390 χ^2 /NDF: 21.5/33

In: -1342.535 $\pm$ 469.388 χ^2 /NDF:22.1/24

Out: -346.814 $\pm$ 481.424 χ^2 /NDF:19.3/26

All: -857.278 $\pm$ 336.082 χ^2 /NDF: 43.5/51

reg_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947 $\pm$ 0.487 χ^2 /NDF: 295439.4/15

Left Out: 1798.102 $\pm$ 0.479 χ^2 /NDF: 5140.6/8

Right Out: 1826.208 $\pm$ 0.484 χ^2 /NDF: 103006.6/17

Left In: 1795.321 $\pm$ 0.453 χ^2 /NDF: 4683.4/8

Left: 1796.634 $\pm$ 0.329 χ^2 /NDF: 9841.8/17

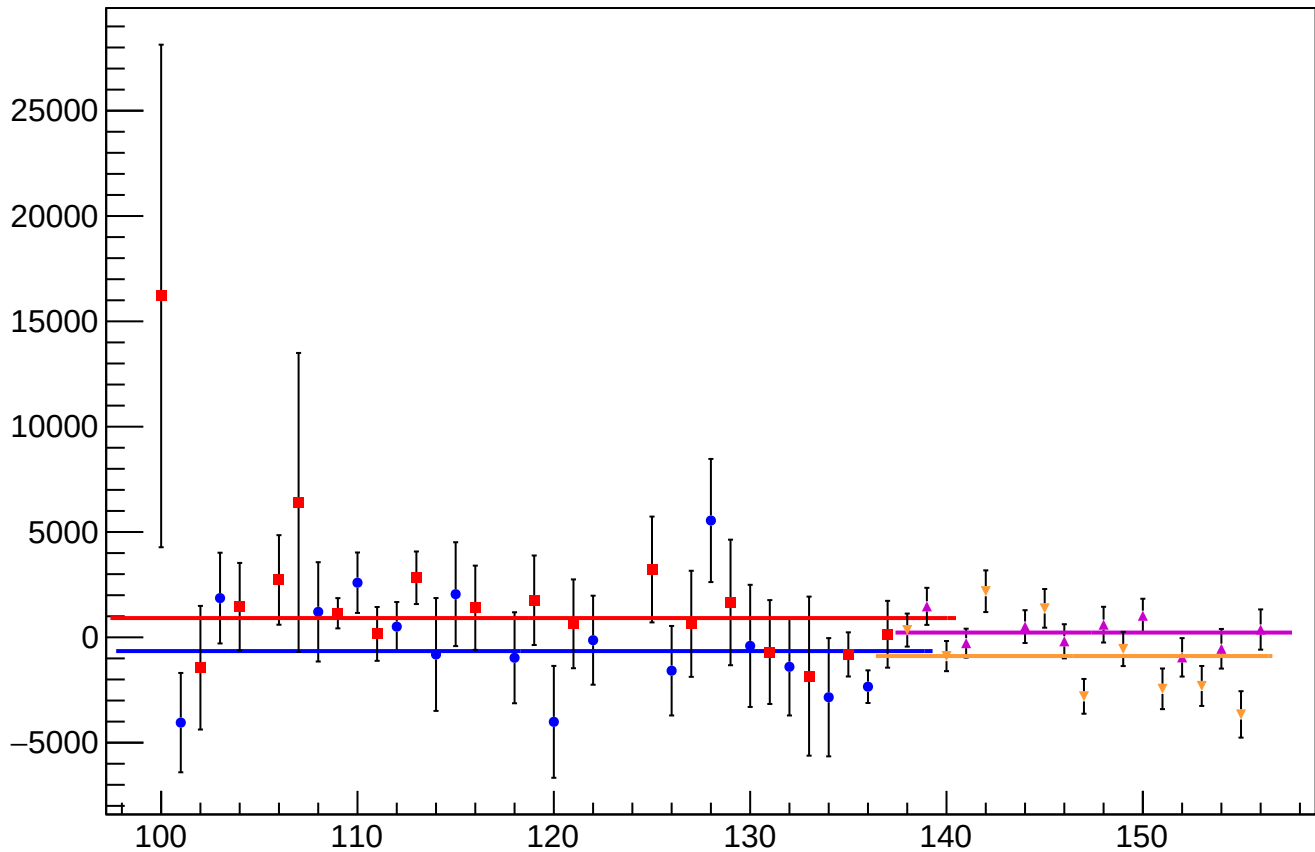
Right: 1829.552 $\pm$ 0.343 χ^2 /NDF: 398542.3/33

In: 1812.782 $\pm$ 0.332 χ^2 /NDF: 303318.9/24

Out: 1812.030 $\pm$ 0.340 χ^2 /NDF: 109851.3/26

All: 1812.415 $\pm$ 0.238 χ^2 /NDF: 413172.7/51

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: -888.161+/-291.309 χ^2/NDF :34.9/8

Right Out: 914.717+/-393.421 χ^2/NDF : 11.5/17

Left In: 227.055+/-277.968 χ^2/NDF :6.5/8

Left: -304.432+/-201.104 χ^2/NDF : 49.1/17

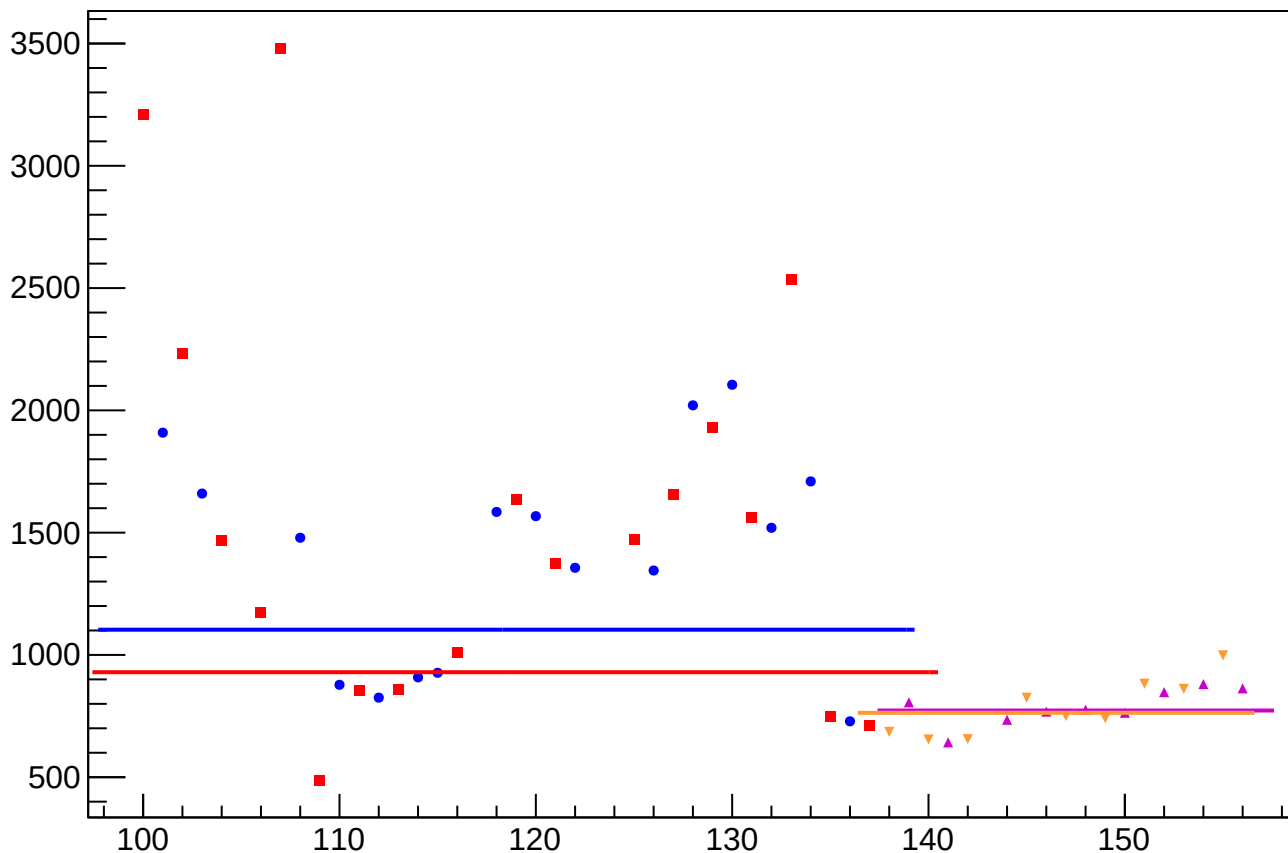
Right: 222.415+/-293.910 χ^2/NDF : 41.8/33

In: -21.953+/-235.325 χ^2/NDF :32.5/24

Out: -249.733+/-234.116 χ^2/NDF :60.0/26

All: -136.430+/-165.971 χ^2/NDF : 93.0/51

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: 763.338+/-0.206 χ^2/NDF : 243467.4/8

Right Out: 929.356+/-0.278 χ^2/NDF : 3054092.4/17

Left In: 772.687+/-0.197 χ^2/NDF : 137910.9/8

Left: 768.232+/-0.142 χ^2/NDF : 382456.6/17

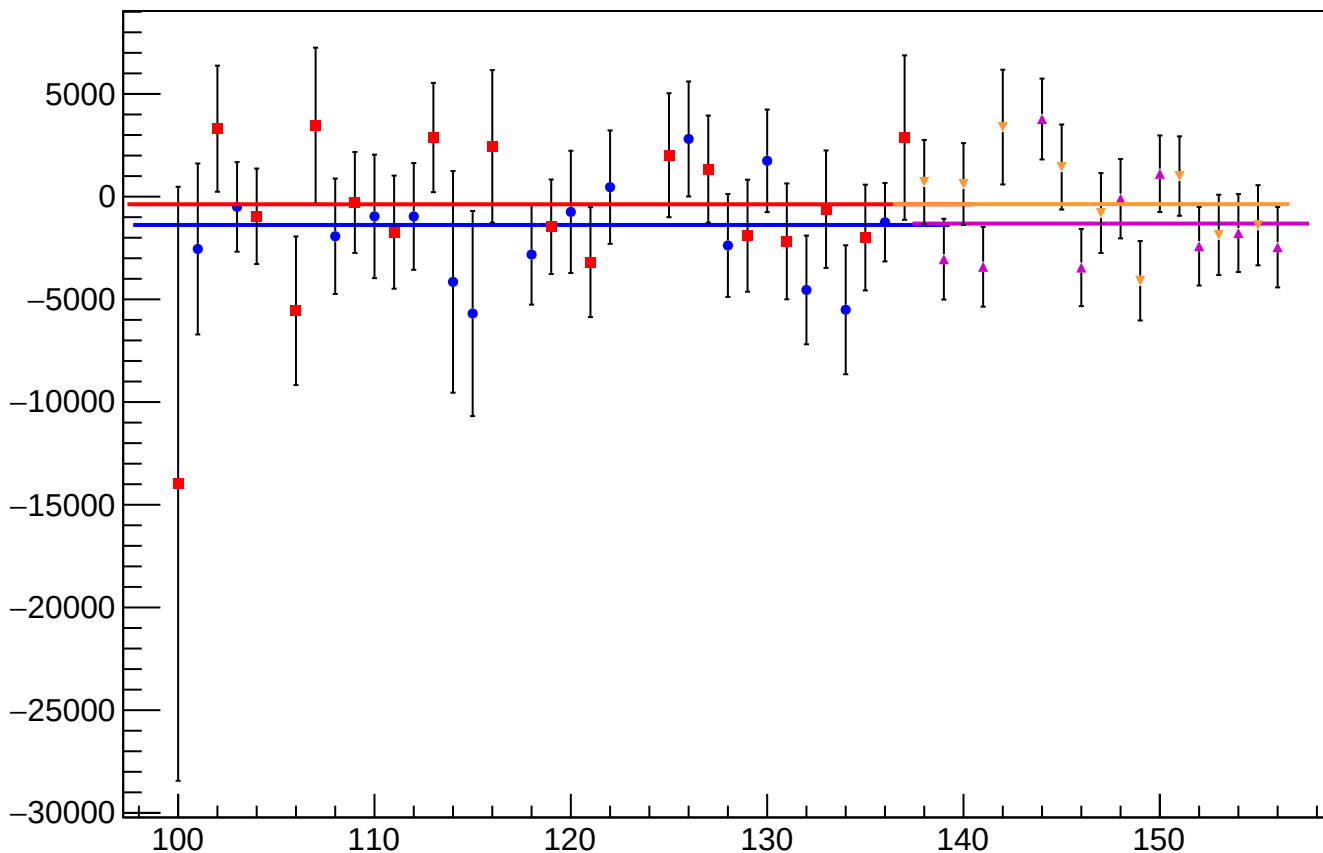
Right: 1006.170+/-0.208 χ^2/NDF : 5104800.3/33

In: 866.312+/-0.166 χ^2/NDF : 2817024.4/24

Out: 822.128+/-0.166 χ^2/NDF : 3527589.0/26

All: 844.106+/-0.117 χ^2/NDF : 6380049.1/51

cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.133 $\pm$ 689.030 χ^2 /NDF: 9.3/15

Left Out: -364.482 $\pm$ 677.826 χ^2 /NDF:8.2/8

Right Out: -372.534 $\pm$ 684.408 χ^2 /NDF: 12.0/17

Left In: -1311.123 $\pm$ 641.179 χ^2 /NDF:12.8/8

Left: -864.084 $\pm$ 465.799 χ^2 /NDF: 22.0/17

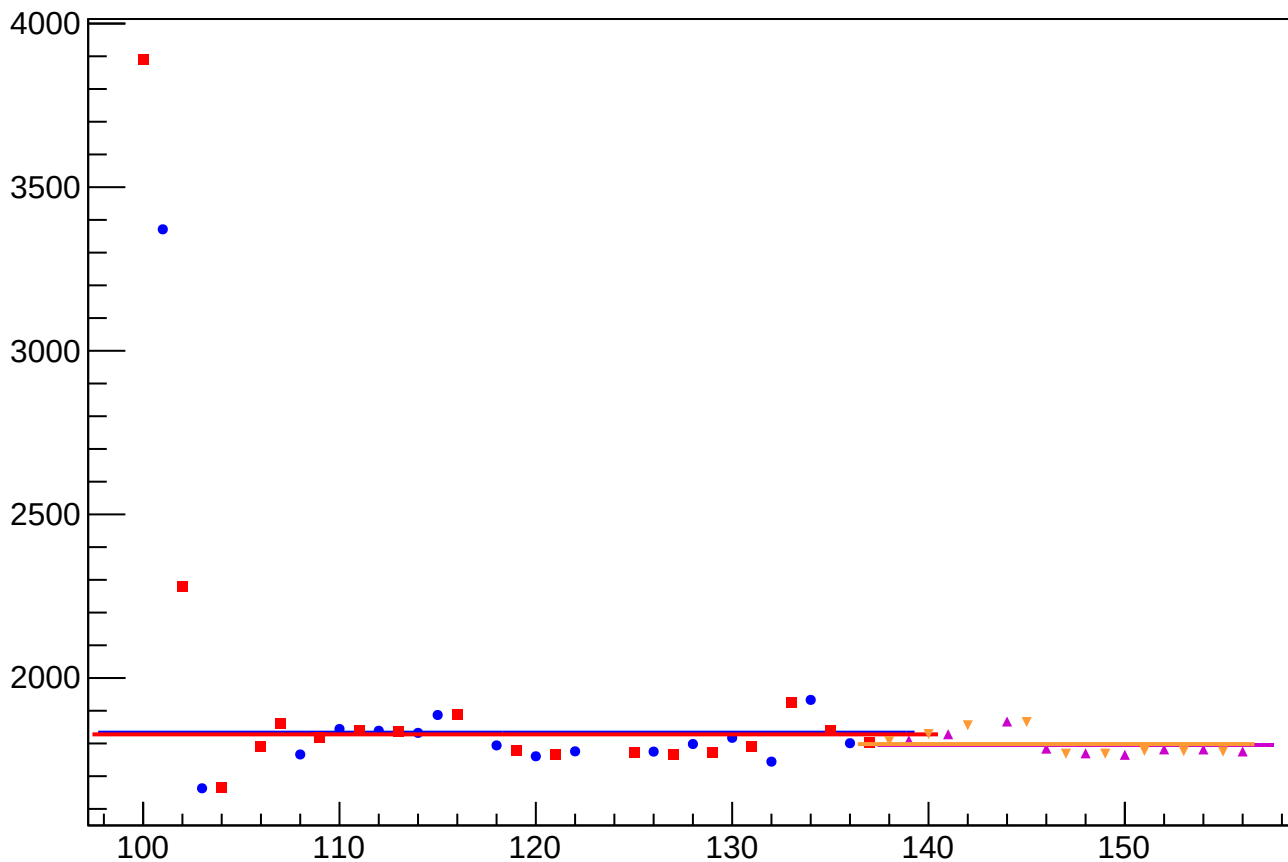
Right: -871.950 $\pm$ 485.576 χ^2 /NDF: 22.3/33

In: -1342.221 $\pm$ 469.388 χ^2 /NDF:22.1/24

Out: -368.469 $\pm$ 481.606 χ^2 /NDF:20.2/26

All: -867.853 $\pm$ 336.144 χ^2 /NDF: 44.3/51

cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947 $\pm$ 0.487 χ^2 /NDF: 295441.2/15

Left Out: 1798.102 $\pm$ 0.479 χ^2 /NDF: 5140.6/8

Right Out: 1827.785 $\pm$ 0.484 χ^2 /NDF: 102270.3/17

Left In: 1795.321 $\pm$ 0.453 χ^2 /NDF: 4683.4/8

Left: 1796.634 $\pm$ 0.329 χ^2 /NDF: 9841.8/17

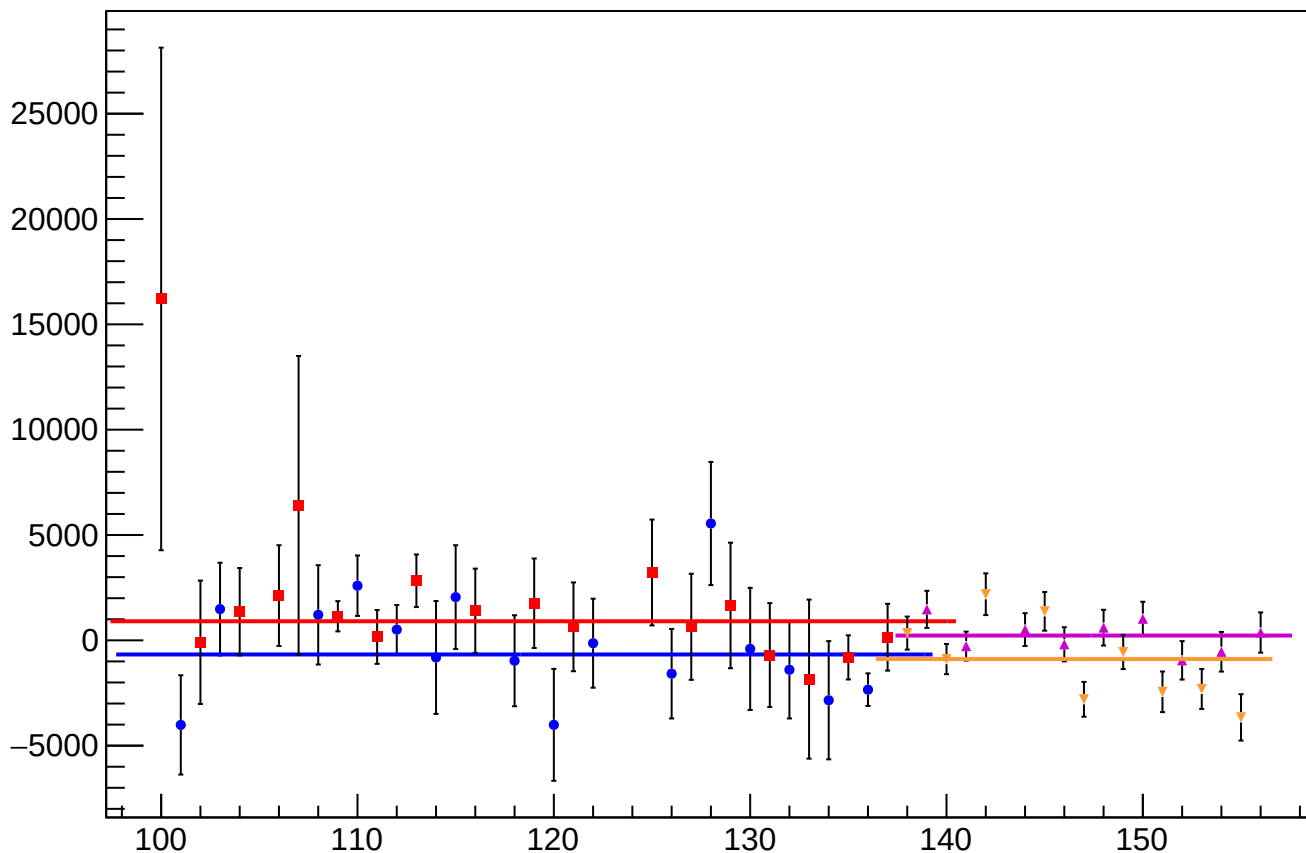
Right: 1830.348 $\pm$ 0.343 χ^2 /NDF: 397768.0/33

In: 1812.782 $\pm$ 0.332 χ^2 /NDF: 303320.8/24

Out: 1812.800 $\pm$ 0.341 χ^2 /NDF: 109310.1/26

All: 1812.791 $\pm$ 0.238 χ^2 /NDF: 412630.9/51

asym_us_dd_atlr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539+/-442.505 χ^2/NDF : 22.8/15

Left Out: -888.196+/-291.311 χ^2/NDF :34.9/8

Right Out: 905.874+/-394.814 χ^2/NDF : 10.5/17

Left In: 227.008+/-277.970 χ^2/NDF :6.5/8

Left: -304.474+/-201.105 χ^2/NDF : 49.0/17

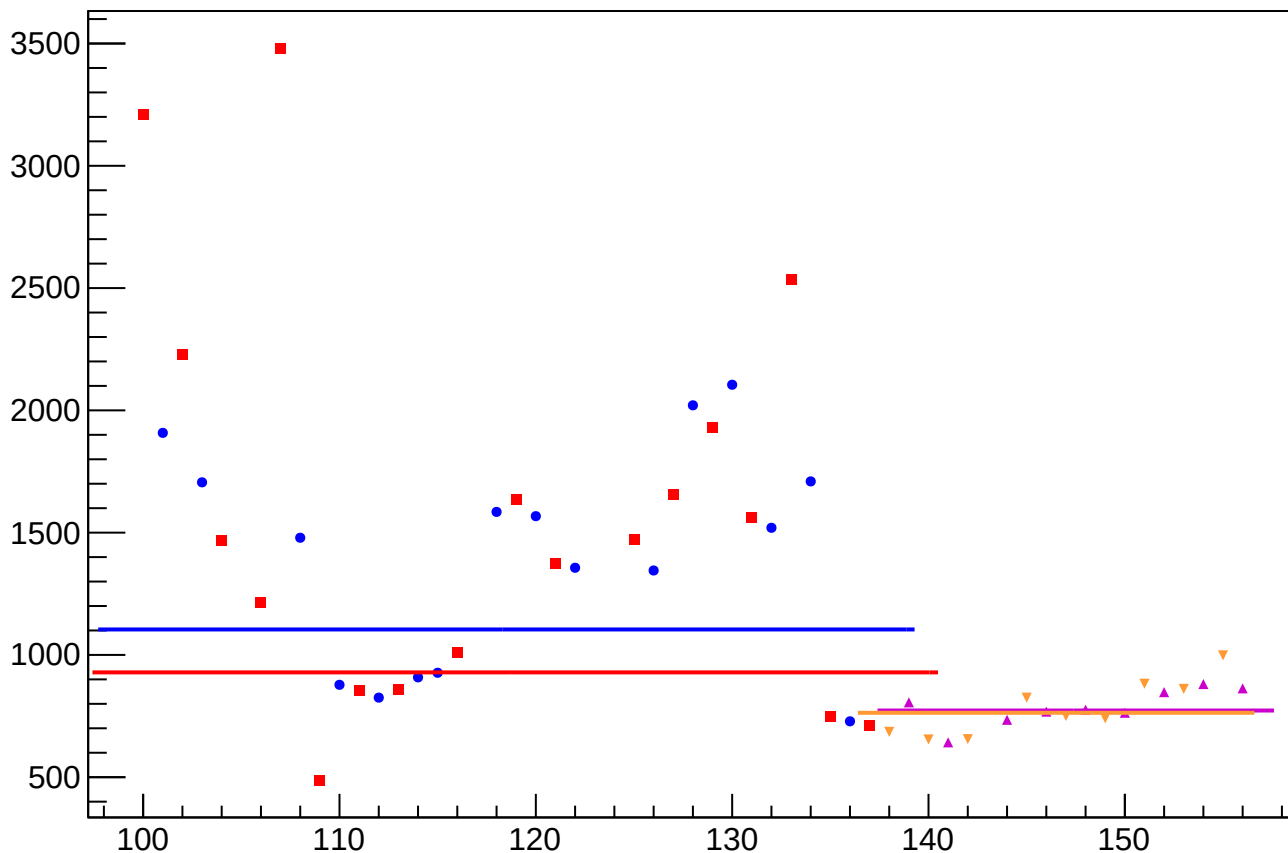
Right: 207.164+/-294.599 χ^2/NDF : 40.3/33

In: -26.952+/-235.382 χ^2/NDF :32.2/24

Out: -255.779+/-234.409 χ^2/NDF :58.8/26

All: -141.839+/-166.095 χ^2/NDF : 91.4/51

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: 763.344+/-0.206 χ^2/NDF : 243442.4/8

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 772.692+/-0.197 χ^2/NDF : 137961.9/8

Left: 768.237+/-0.142 χ^2/NDF : 382482.2/17

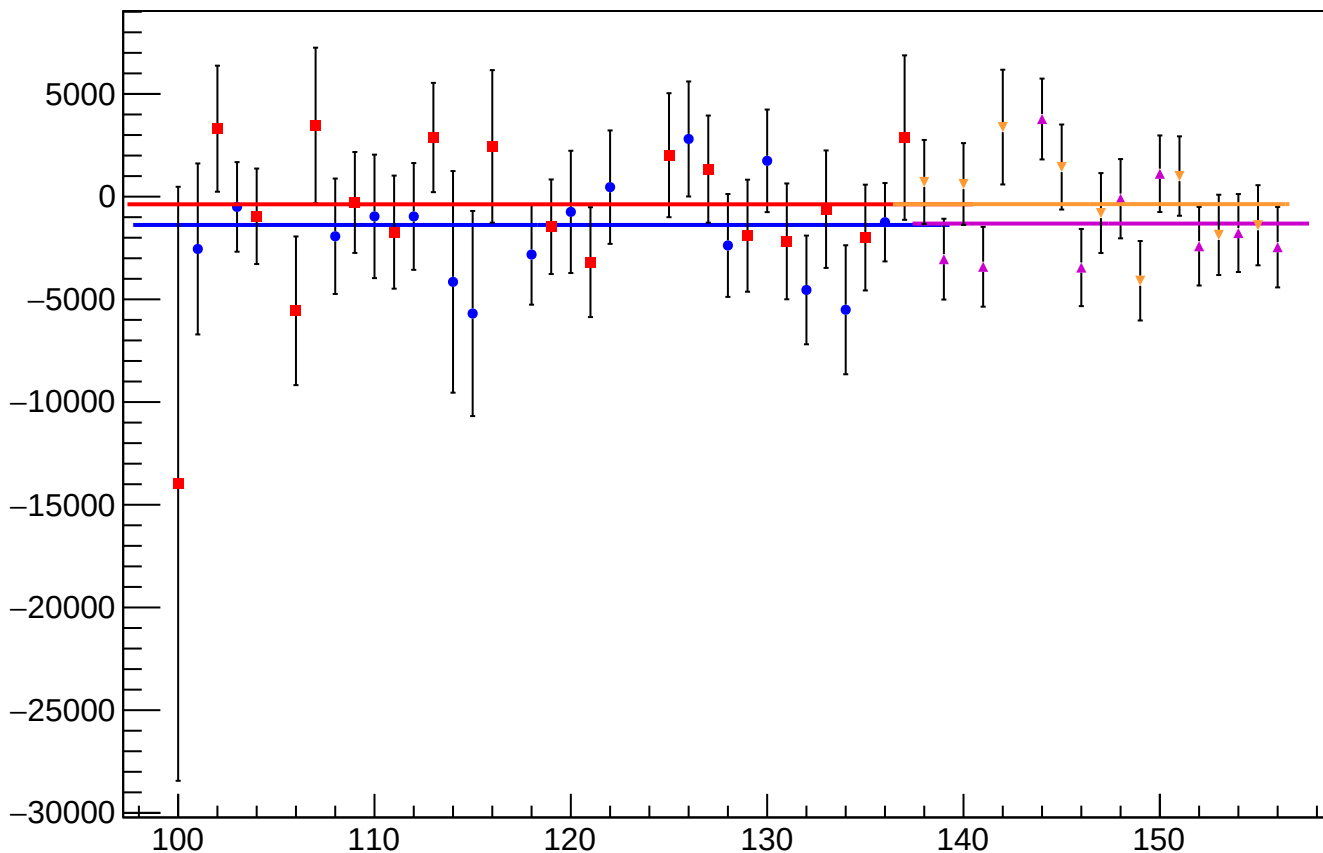
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 866.464+/-0.166 χ^2/NDF : 2836851.0/24

Out: 821.608+/-0.166 χ^2/NDF : 3524782.5/26

All: 843.943+/-0.117 χ^2/NDF : 6398100.9/51

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: -364.482+/-677.826 χ^2/NDF : 8.2/8

Right Out: -372.534+/-684.408 χ^2/NDF : 12.0/17

Left In: -1311.123+/-641.179 χ^2/NDF : 12.8/8

Left: -864.084+/-465.799 χ^2/NDF : 22.0/17

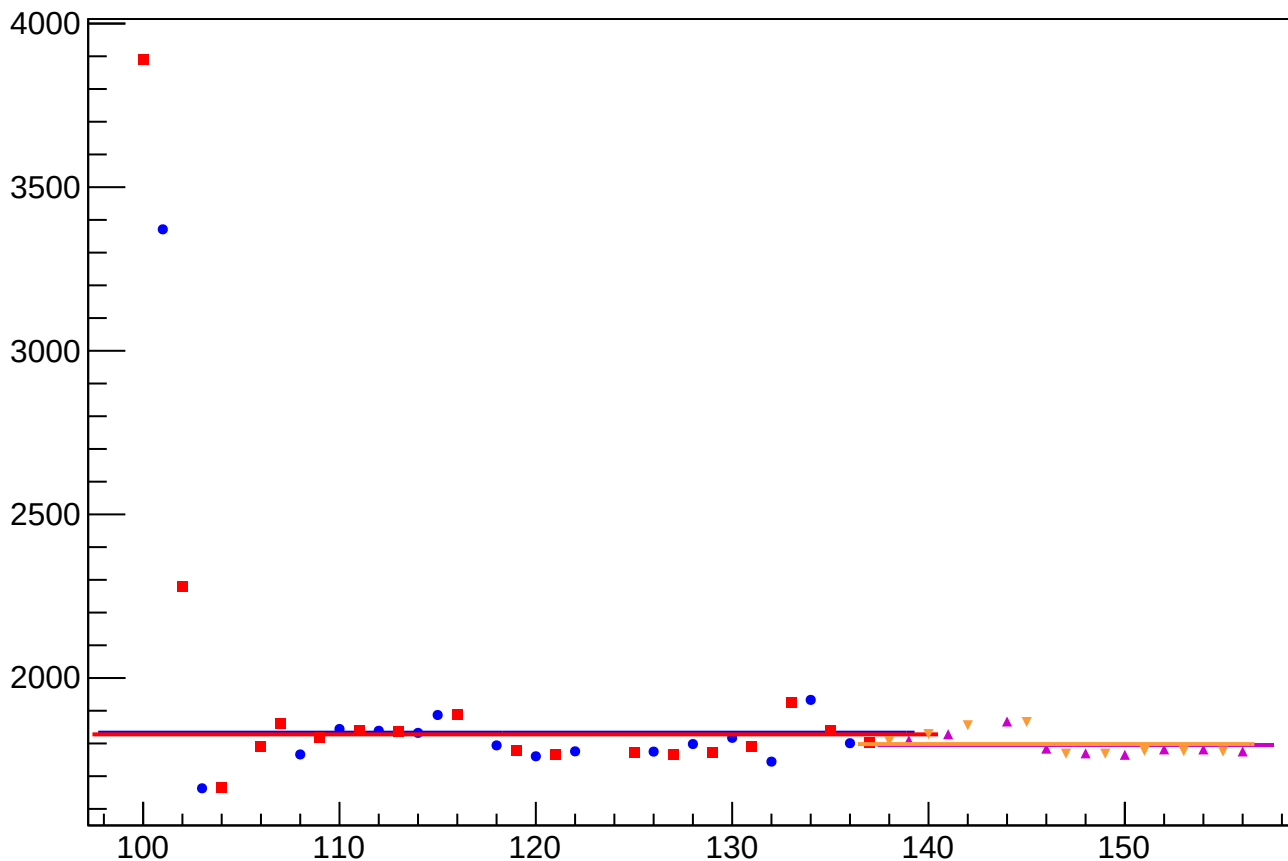
Right: -871.950+/-485.576 χ^2/NDF : 22.3/33

In: -1342.221+/-469.388 χ^2/NDF : 22.1/24

Out: -368.469+/-481.606 χ^2/NDF : 20.2/26

All: -867.853+/-336.144 χ^2/NDF : 44.3/51

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947 $\pm$ 0.487 χ^2 /NDF: 295441.2/15

Left Out: 1798.102 $\pm$ 0.479 χ^2 /NDF: 5140.6/8

Right Out: 1827.785 $\pm$ 0.484 χ^2 /NDF: 102270.3/17

Left In: 1795.321 $\pm$ 0.453 χ^2 /NDF: 4683.4/8

Left: 1796.634 $\pm$ 0.329 χ^2 /NDF: 9841.8/17

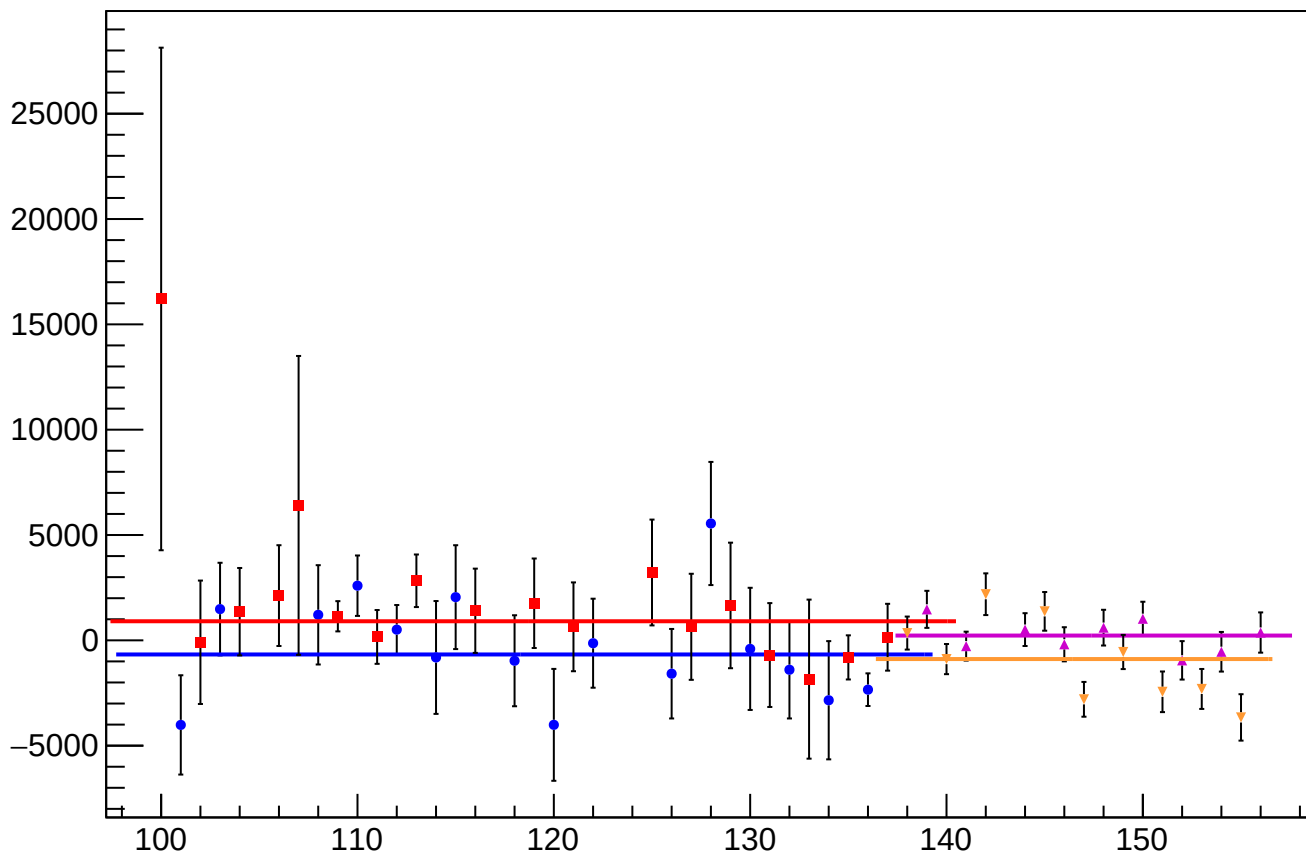
Right: 1830.348 $\pm$ 0.343 χ^2 /NDF: 397768.0/33

In: 1812.782 $\pm$ 0.332 χ^2 /NDF: 303320.8/24

Out: 1812.800 $\pm$ 0.341 χ^2 /NDF: 109310.1/26

All: 1812.791 $\pm$ 0.238 χ^2 /NDF: 412630.9/51

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539 $\pm$ 442.505 χ^2 /NDF: 22.8/15

Left Out: -888.196 $\pm$ 291.311 χ^2 /NDF:34.9/8

Right Out: 905.874 $\pm$ 394.814 χ^2 /NDF: 10.5/17

Left In: 227.008 $\pm$ 277.970 χ^2 /NDF:6.5/8

Left: -304.474 $\pm$ 201.105 χ^2 /NDF: 49.0/17

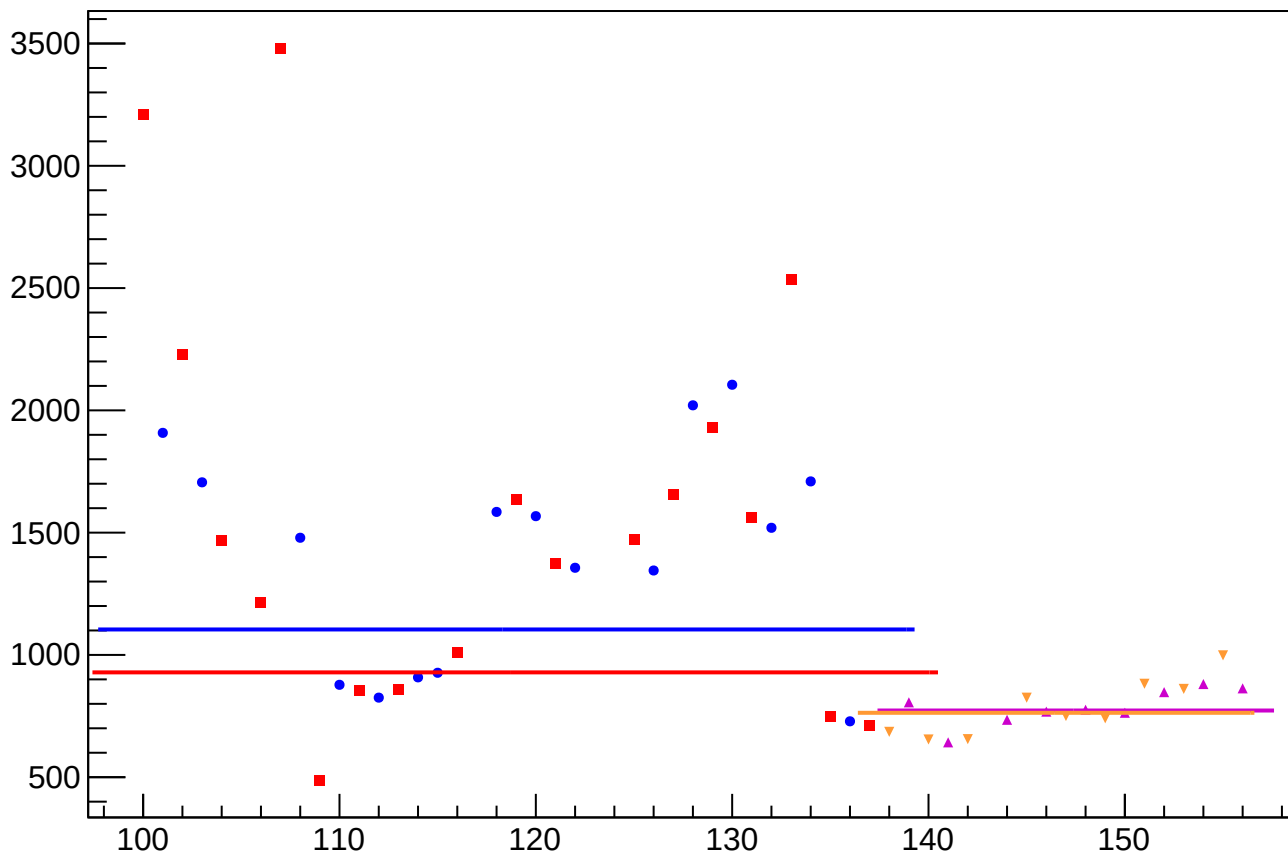
Right: 207.164 $\pm$ 294.599 χ^2 /NDF: 40.3/33

In: -26.952 $\pm$ 235.382 χ^2 /NDF:32.2/24

Out: -255.779 $\pm$ 234.409 χ^2 /NDF:58.8/26

All: -141.839 $\pm$ 166.095 χ^2 /NDF: 91.4/51

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: 763.344+/-0.206 χ^2/NDF : 243442.4/8

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 772.692+/-0.197 χ^2/NDF : 137961.9/8

Left: 768.237+/-0.142 χ^2/NDF : 382482.2/17

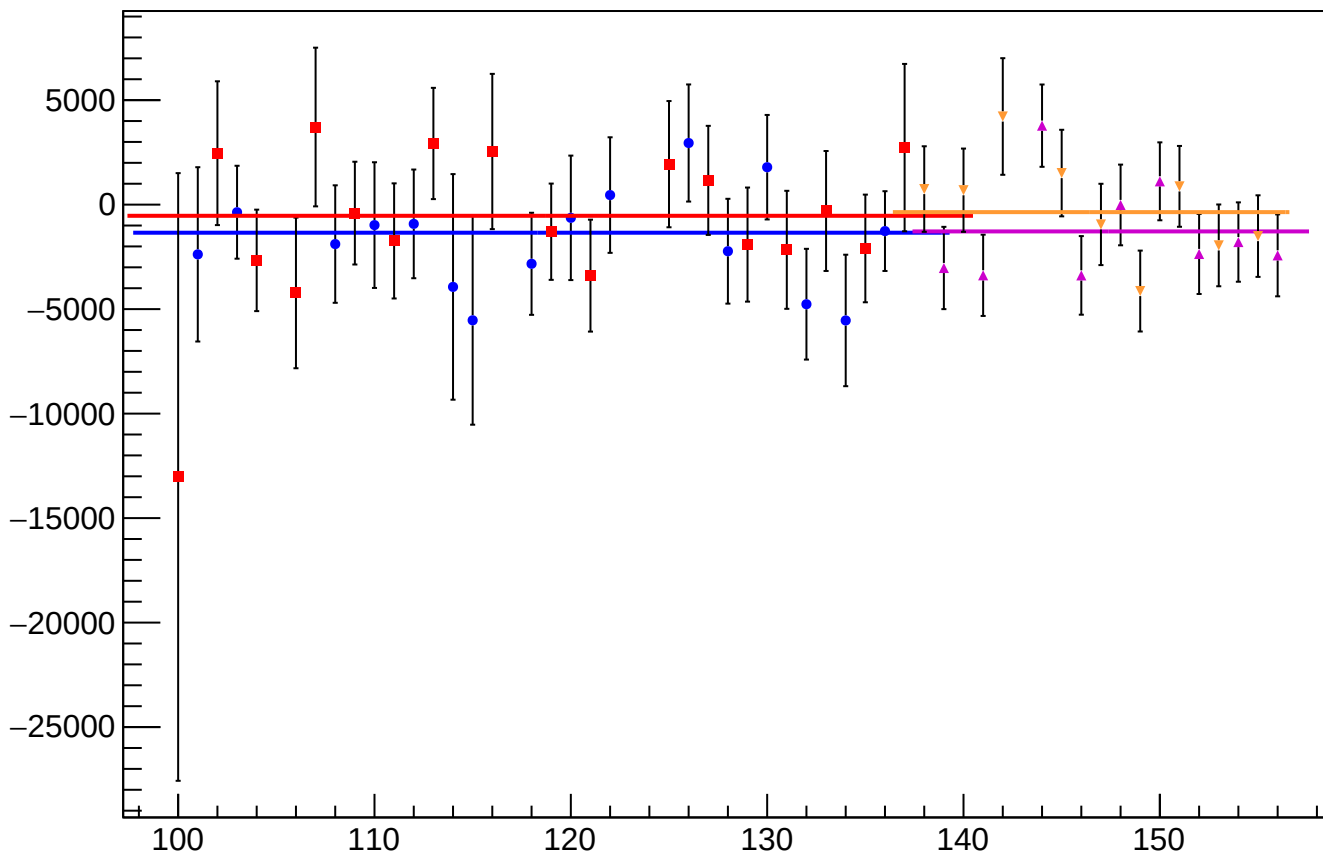
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 866.464+/-0.166 χ^2/NDF : 2836851.0/24

Out: 821.608+/-0.166 χ^2/NDF : 3524782.5/26

All: 843.943+/-0.117 χ^2/NDF : 6398100.9/51

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: -358.611 $\pm$ 678.214 χ^2 /NDF:9.4/8

Right Out: -534.194 $\pm$ 690.970 χ^2 /NDF: 11.1/17

Left In: -1281.945 $\pm$ 641.610 χ^2 /NDF:12.6/8

Left: -845.866 $\pm$ 466.090 χ^2 /NDF: 23.0/17

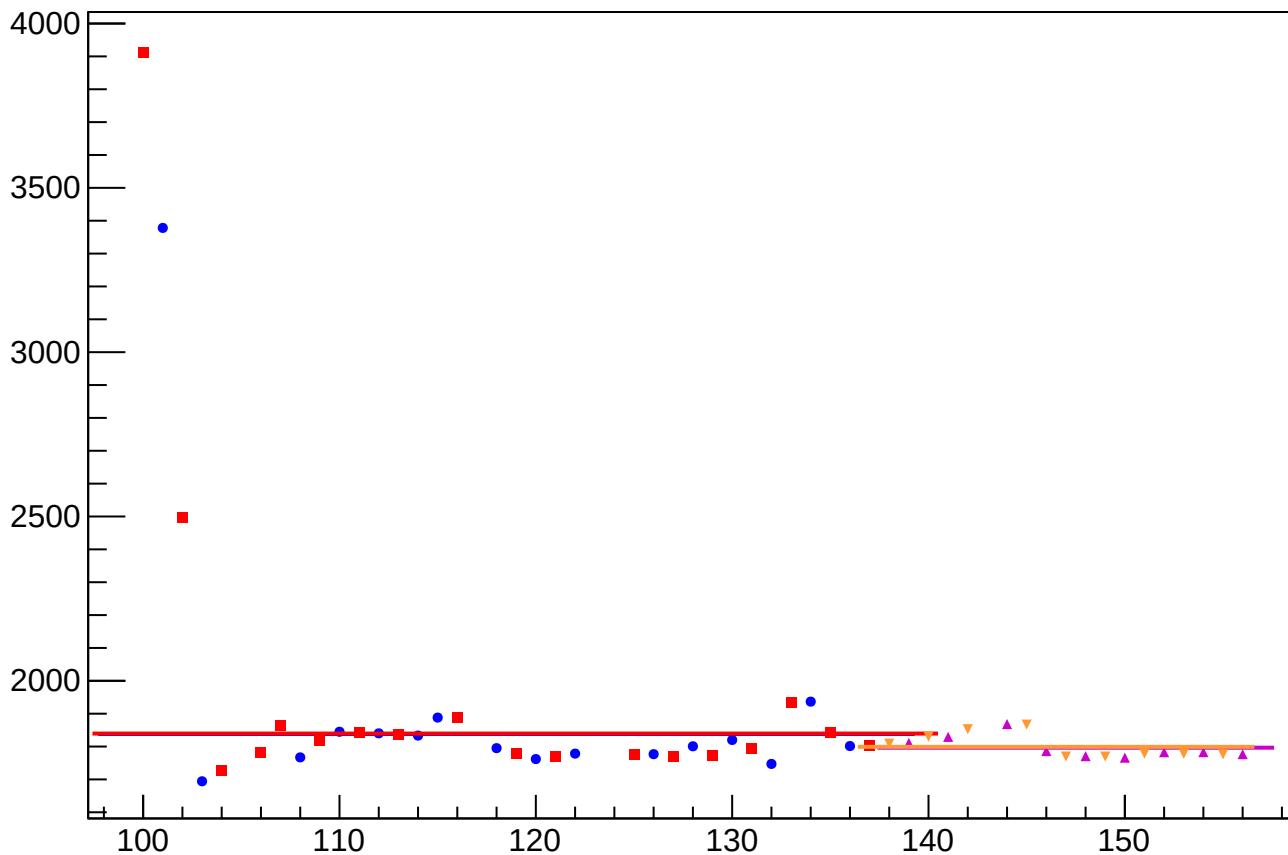
Right: -939.091 $\pm$ 488.579 χ^2 /NDF: 21.4/33

In: -1310.656 $\pm$ 470.160 χ^2 /NDF:22.2/24

Out: -444.767 $\pm$ 484.017 χ^2 /NDF:20.5/26

All: -890.283 $\pm$ 337.246 χ^2 /NDF: 44.4/51

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: 1799.113+/-0.480 χ^2/NDF : 5062.3/8

Right Out: 1839.517+/-0.489 χ^2/NDF : 128253.5/17

Left In: 1796.525+/-0.454 χ^2/NDF : 4704.0/8

Left: 1797.747+/-0.330 χ^2/NDF : 9781.7/17

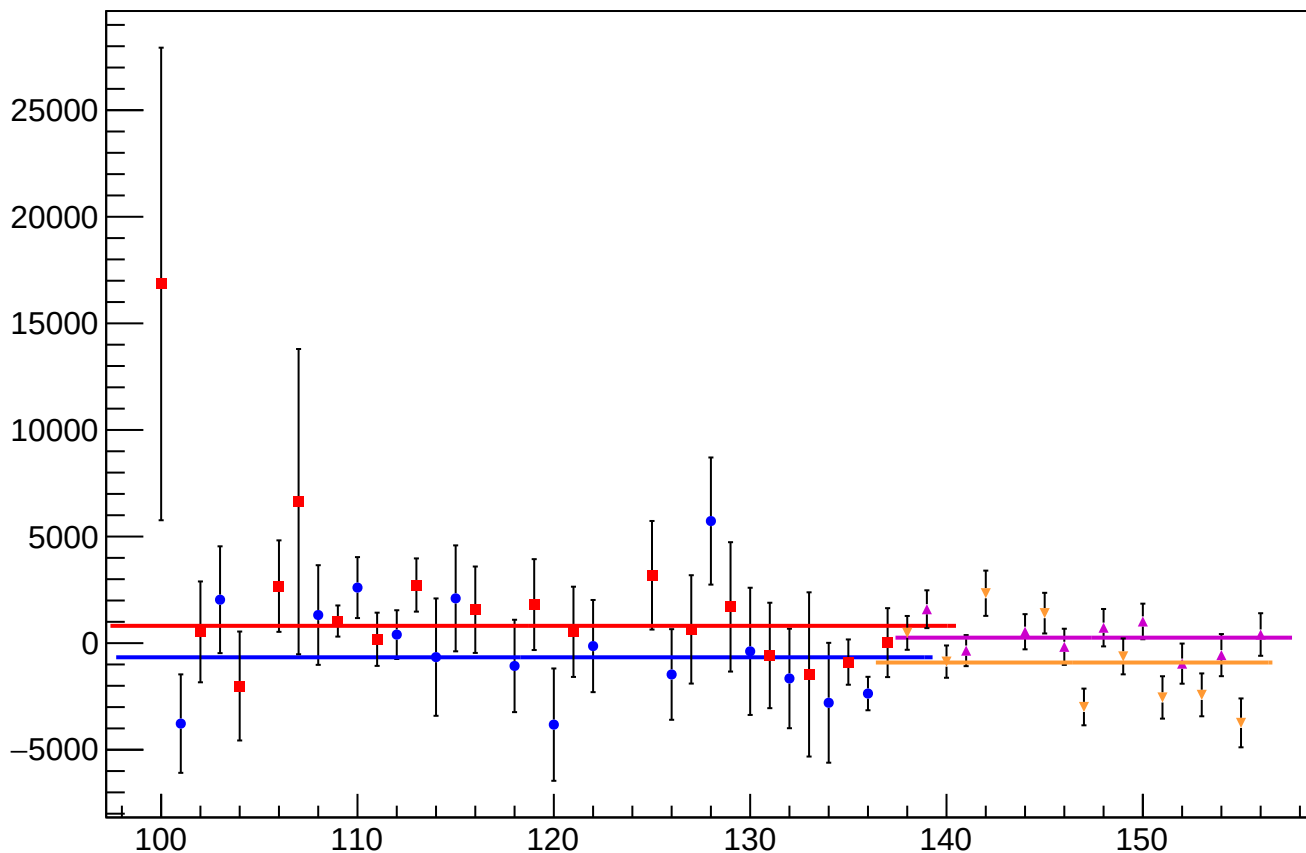
Right: 1838.838+/-0.345 χ^2/NDF : 420241.4/33

In: 1815.803+/-0.332 χ^2/NDF : 300587.4/24

Out: 1818.939+/-0.342 χ^2/NDF : 136798.8/26

All: 1817.325+/-0.238 χ^2/NDF : 437429.5/51

asym_us_dd_atlr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -663.489 $\pm$ 445.903 χ^2 /NDF: 22.8/15

Left Out: -909.038 $\pm$ 303.720 χ^2 /NDF:35.4/8

Right Out: 812.187 $\pm$ 397.187 χ^2 /NDF: 12.2/17

Left In: 257.081 $\pm$ 289.762 χ^2 /NDF:6.8/8

Left: -298.568 $\pm$ 209.654 χ^2 /NDF: 50.0/17

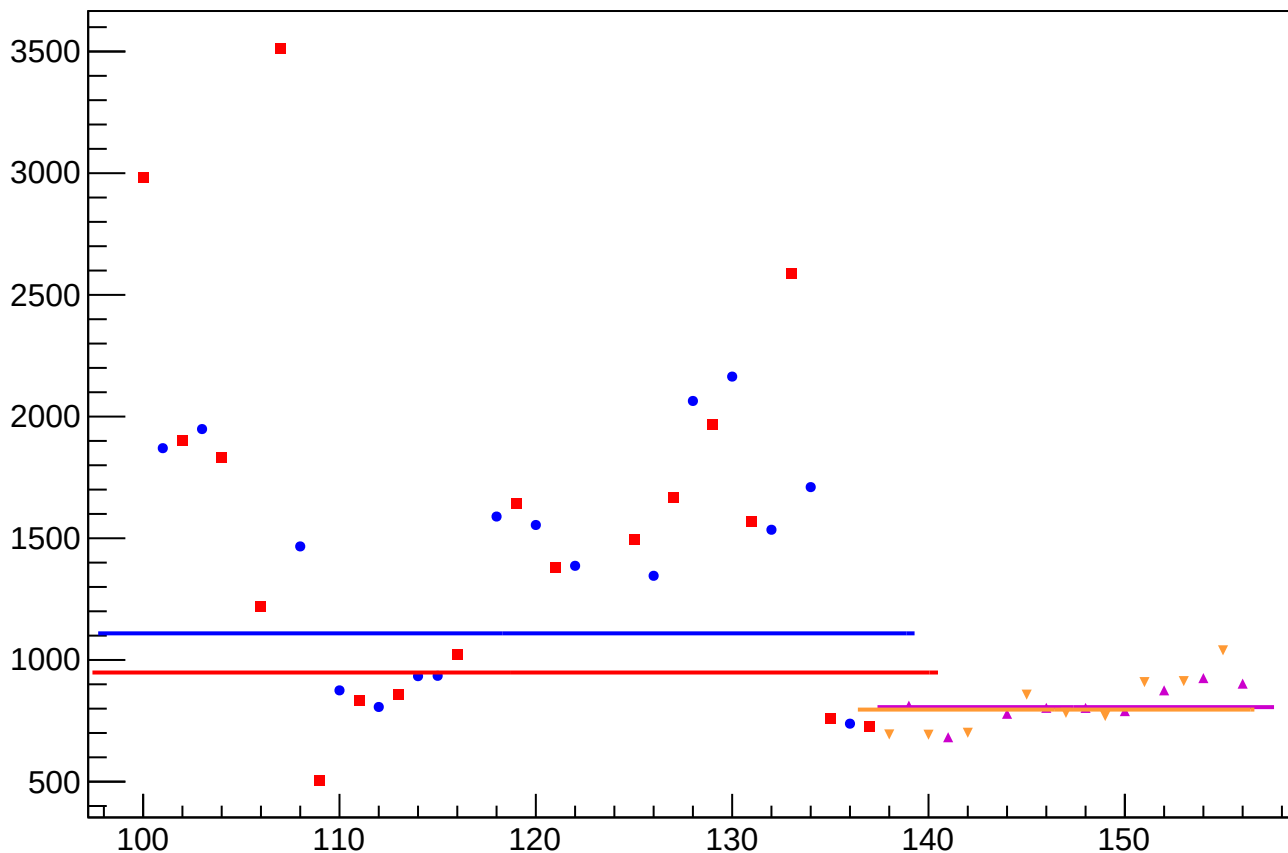
Right: 159.335 $\pm$ 296.587 χ^2 /NDF: 41.1/33

In: -16.241 $\pm$ 242.968 χ^2 /NDF:32.6/24

Out: -273.941 $\pm$ 241.266 χ^2 /NDF:59.5/26

All: -145.997 $\pm$ 171.199 χ^2 /NDF: 92.7/51

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: 796.126 $\pm$ 0.215 χ^2 /NDF: 240084.5/8

Right Out: 948.438 $\pm$ 0.281 χ^2 /NDF: 3053670.4/17

Left In: 806.236 $\pm$ 0.205 χ^2 /NDF: 119370.1/8

Left: 801.418 $\pm$ 0.148 χ^2 /NDF: 360614.8/17

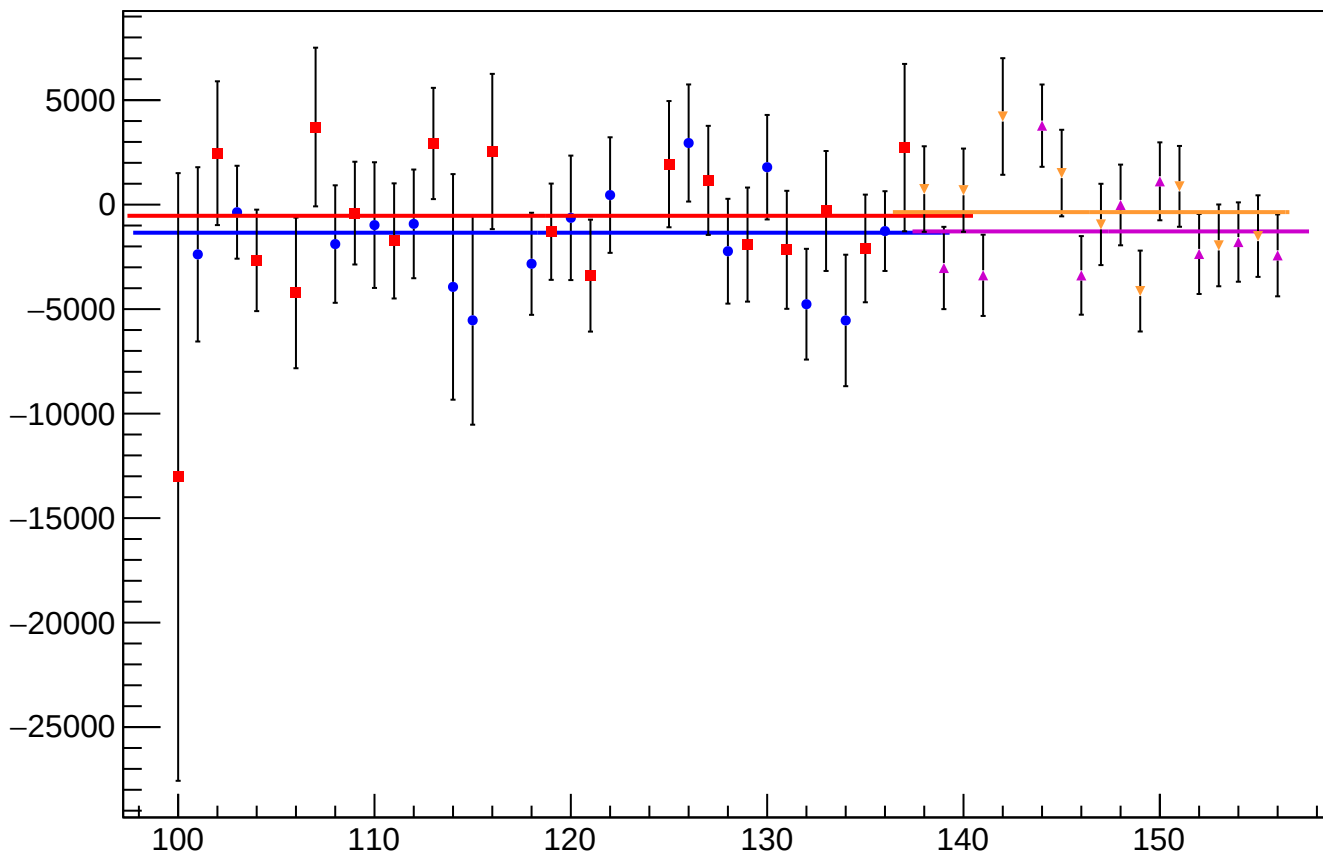
Right: 1019.632 $\pm$ 0.210 χ^2 /NDF: 5172280.0/33

In: 896.235 $\pm$ 0.172 χ^2 /NDF: 2742578.2/24

Out: 852.326 $\pm$ 0.171 χ^2 /NDF: 3479345.4/26

All: 874.126 $\pm$ 0.121 χ^2 /NDF: 6254813.3/51

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1343.955 $\pm$ 690.940 χ^2 /NDF: 9.6/15

Left Out: -358.609 $\pm$ 678.214 χ^2 /NDF:9.4/8

Right Out: -534.199 $\pm$ 690.970 χ^2 /NDF: 11.1/17

Left In: -1281.942 $\pm$ 641.610 χ^2 /NDF:12.6/8

Left: -845.863 $\pm$ 466.090 χ^2 /NDF: 23.0/17

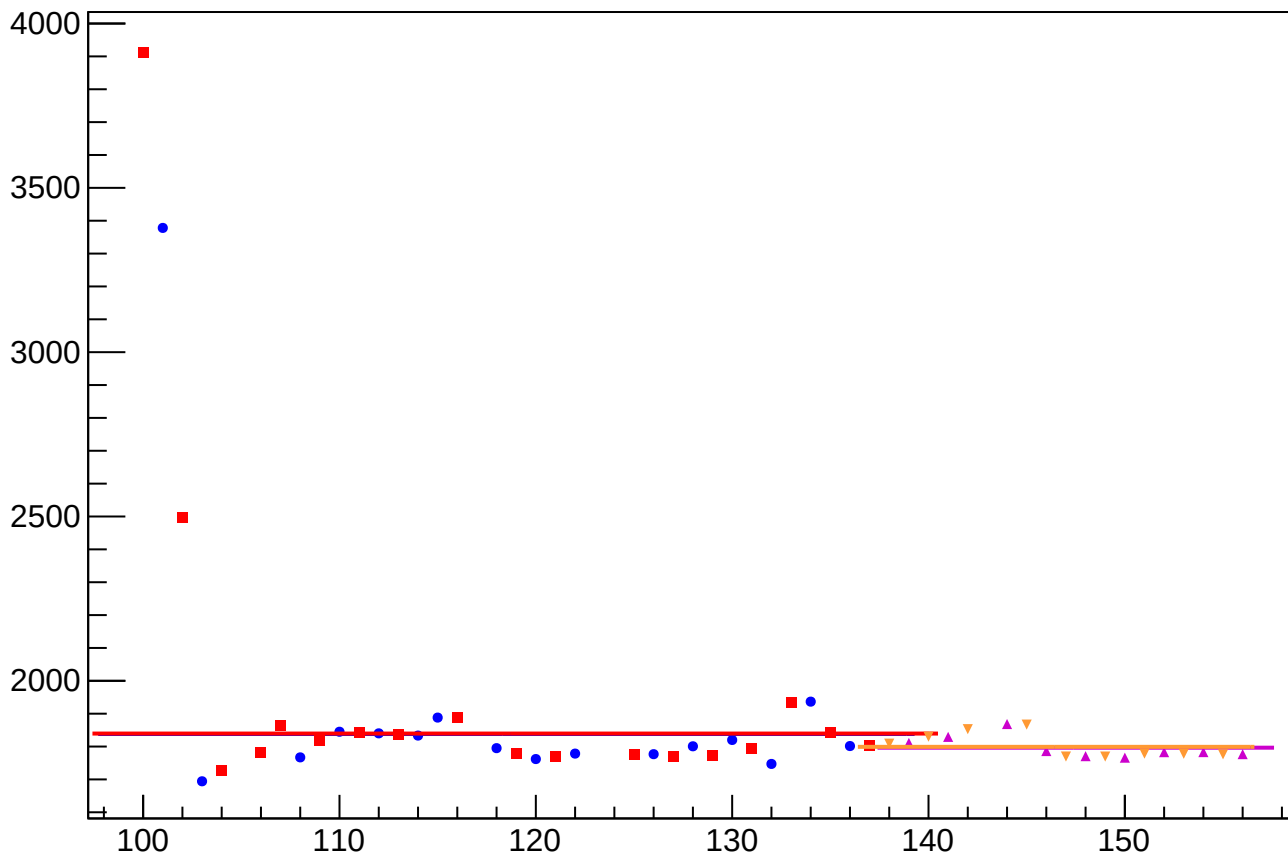
Right: -939.094 $\pm$ 488.579 χ^2 /NDF: 21.4/33

In: -1310.656 $\pm$ 470.160 χ^2 /NDF:22.2/24

Out: -444.768 $\pm$ 484.017 χ^2 /NDF:20.5/26

All: -890.284 $\pm$ 337.246 χ^2 /NDF: 44.4/51

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: 1799.113+/-0.480 χ^2/NDF : 5062.3/8

Right Out: 1839.517+/-0.489 χ^2/NDF : 128253.6/17

Left In: 1796.525+/-0.454 χ^2/NDF : 4704.0/8

Left: 1797.747+/-0.330 χ^2/NDF : 9781.7/17

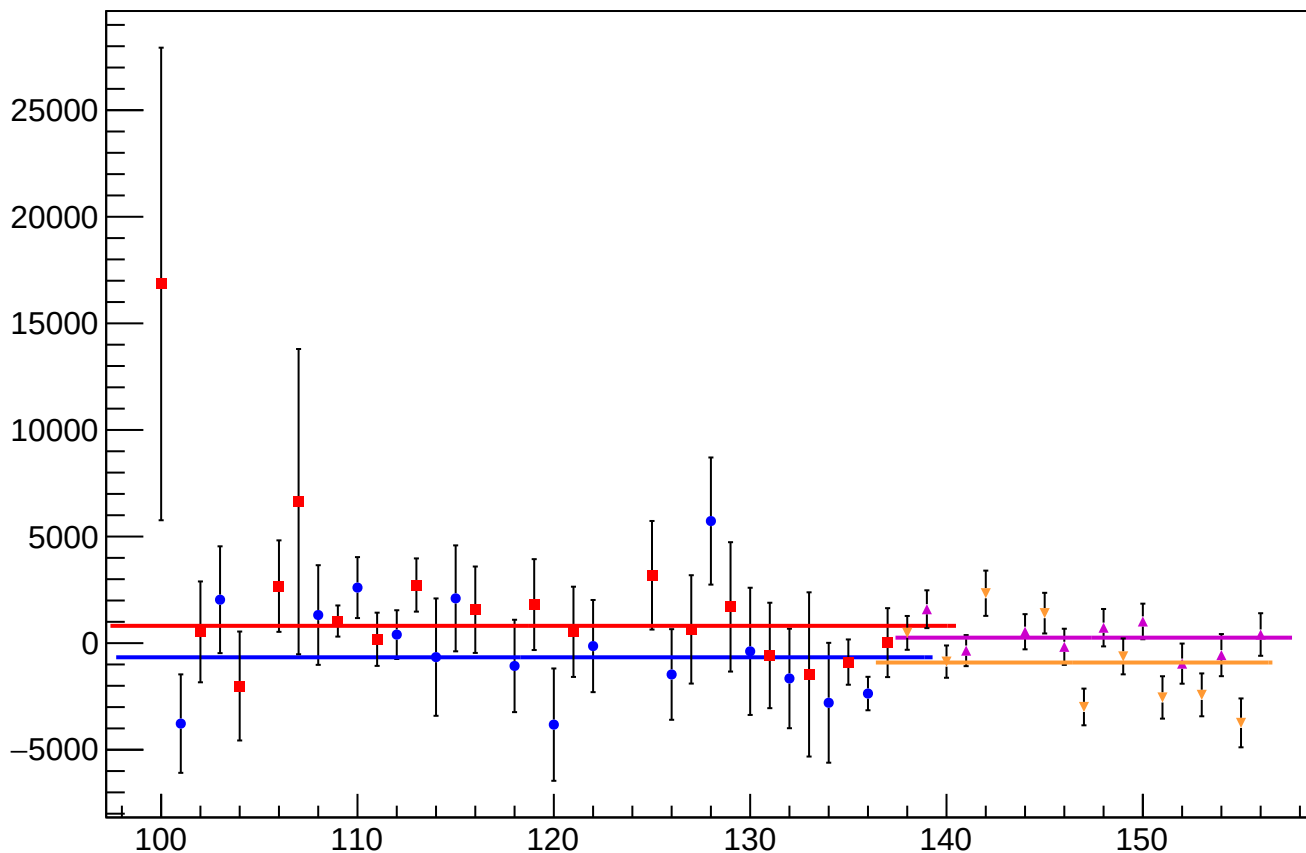
Right: 1838.838+/-0.345 χ^2/NDF : 420241.4/33

In: 1815.803+/-0.332 χ^2/NDF : 300587.4/24

Out: 1818.939+/-0.342 χ^2/NDF : 136798.9/26

All: 1817.325+/-0.238 χ^2/NDF : 437429.5/51

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: -909.047+/-303.722 χ^2/NDF :35.4/8

Right Out: 812.194+/-397.187 χ^2/NDF : 12.2/17

Left In: 257.079+/-289.763 χ^2/NDF :6.8/8

Left: -298.572+/-209.654 χ^2/NDF : 50.0/17

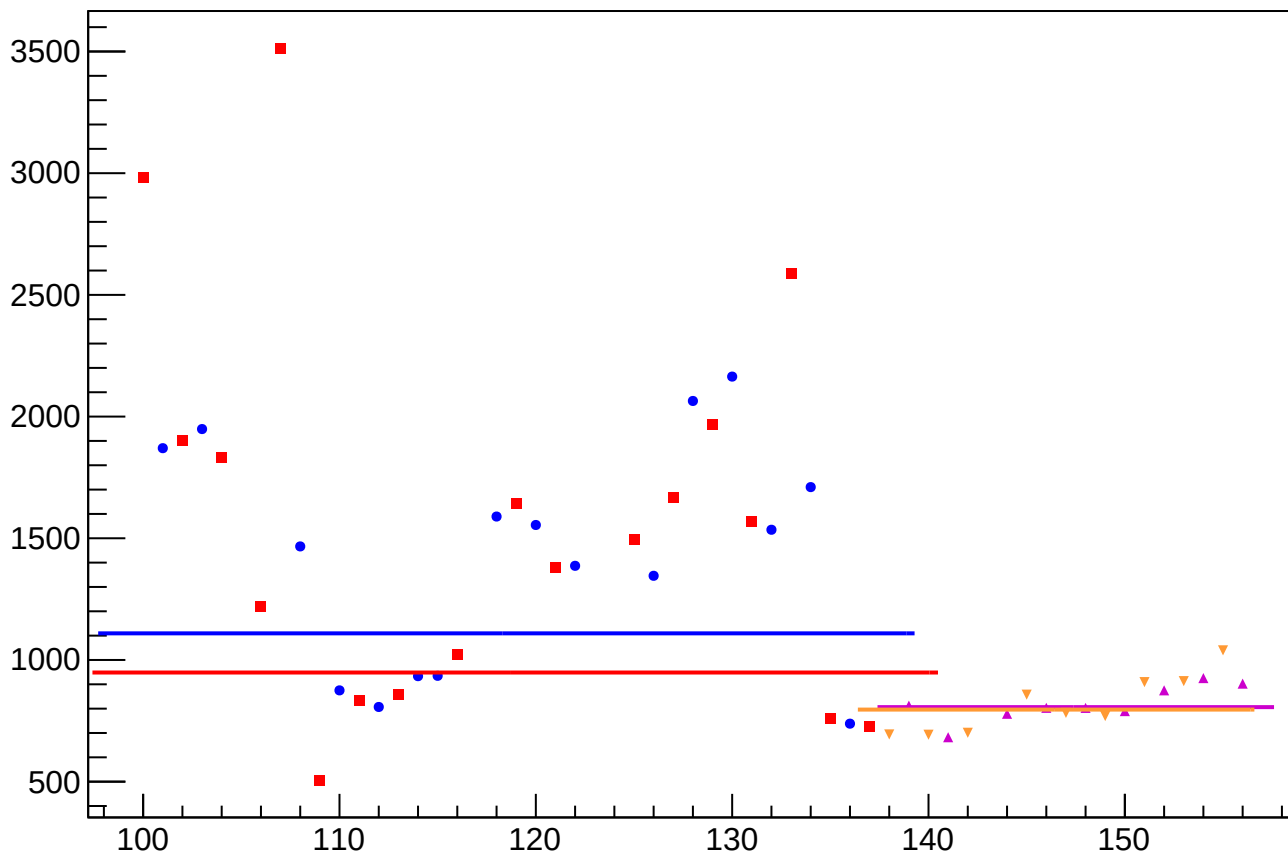
Right: 159.344+/-296.588 χ^2/NDF : 41.1/33

In: -16.238+/-242.968 χ^2/NDF :32.6/24

Out: -273.943+/-241.267 χ^2/NDF :59.5/26

All: -145.996+/-171.200 χ^2/NDF : 92.7/51

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: 796.129+/-0.215 χ^2/NDF : 240069.0/8

Right Out: 948.441+/-0.281 χ^2/NDF : 3053644.5/17

Left In: 806.237+/-0.205 χ^2/NDF : 119368.0/8

Left: 801.420+/-0.148 χ^2/NDF : 360596.6/17

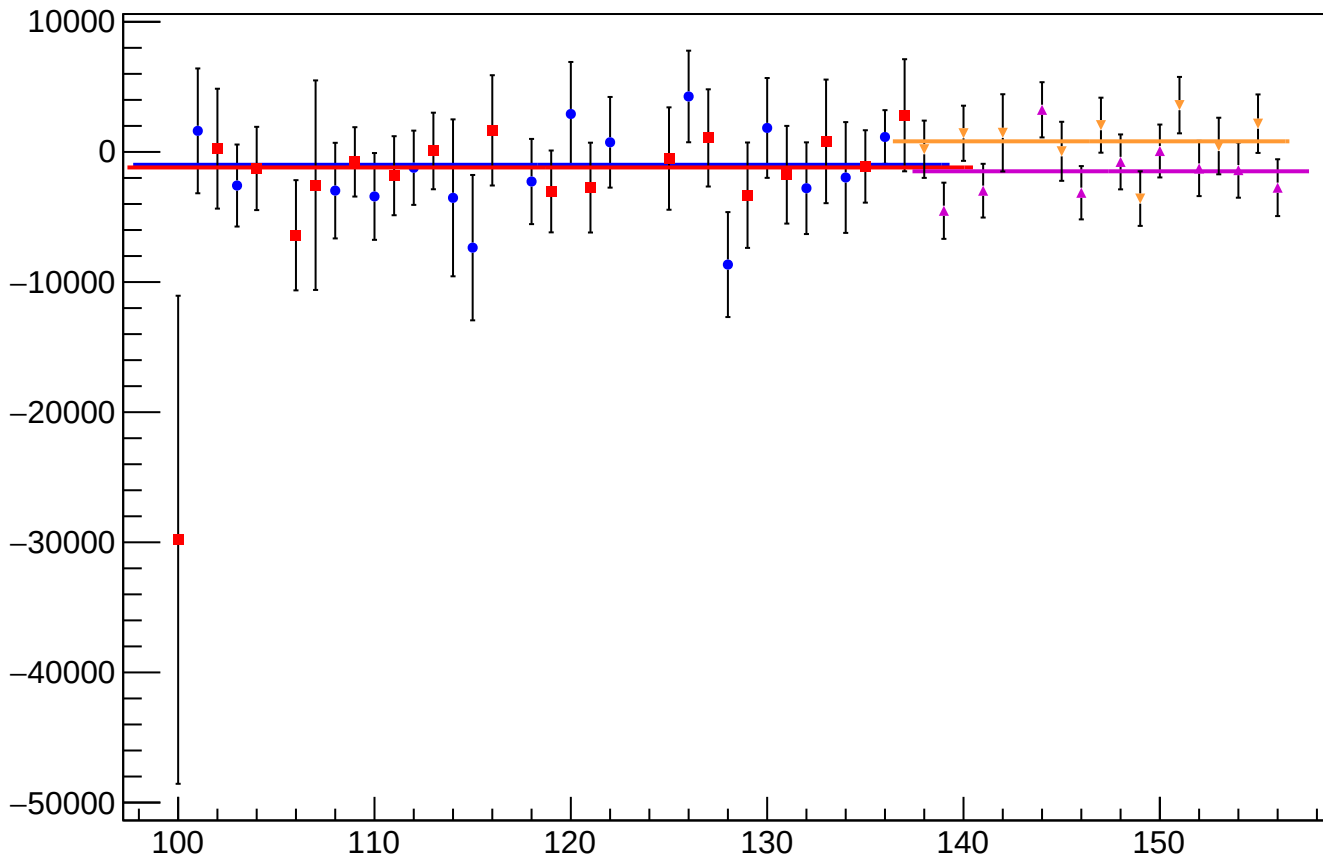
Right: 1019.635+/-0.210 χ^2/NDF : 5172215.4/33

In: 896.237+/-0.172 χ^2/NDF : 2742544.0/24

Out: 852.329+/-0.171 χ^2/NDF : 3479300.5/26

All: 874.128+/-0.121 χ^2/NDF : 6254731.4/51

asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -987.532 $\pm$ 873.840 χ^2 /NDF: 12.0/15

Left Out: 815.513 $\pm$ 743.316 χ^2 /NDF:7.1/8

Right Out: -1192.173 $\pm$ 870.432 χ^2 /NDF: 7.0/17

Left In: -1486.956 $\pm$ 701.877 χ^2 /NDF:9.2/8

Left: -401.686 $\pm$ 510.323 χ^2 /NDF: 21.3/17

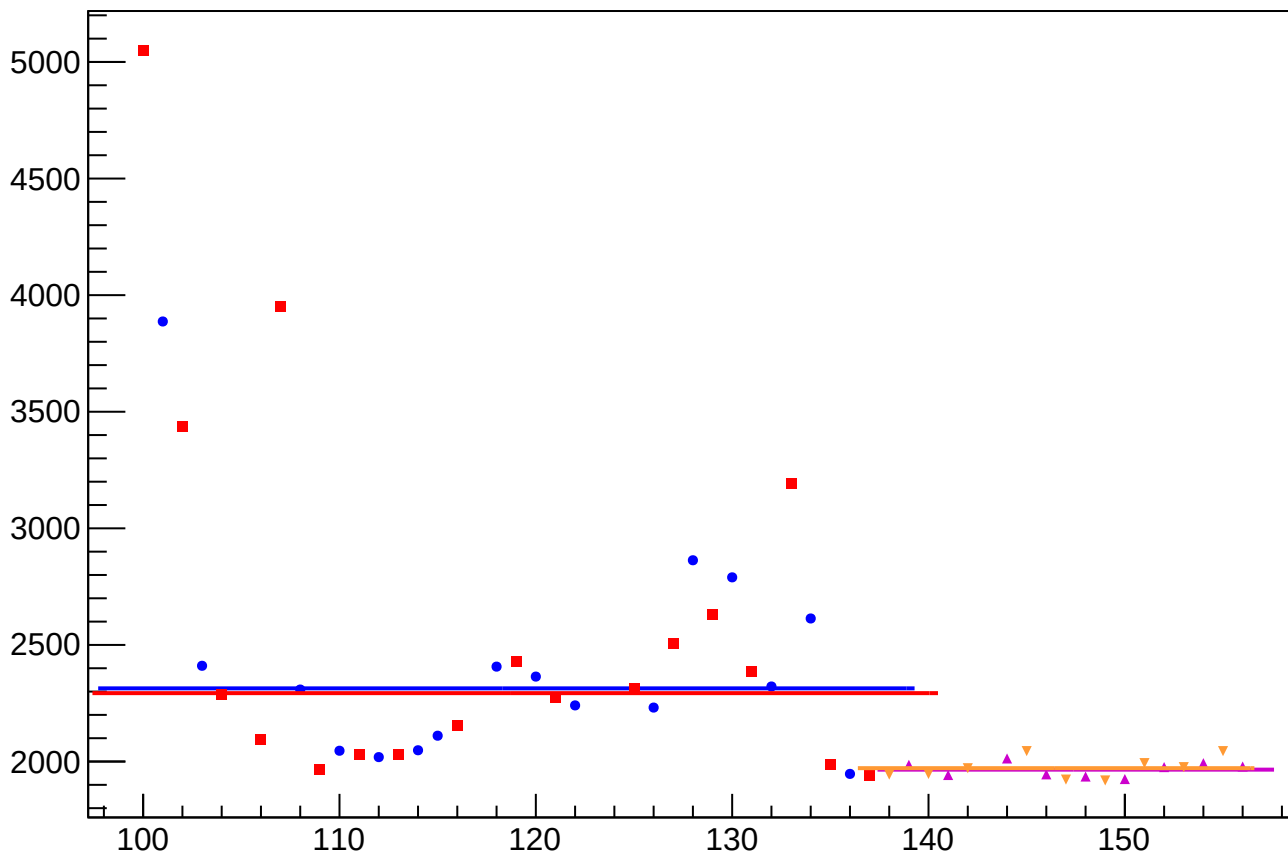
Right: -1090.252 $\pm$ 616.690 χ^2 /NDF: 19.0/33

In: -1291.106 $\pm$ 547.216 χ^2 /NDF:21.3/24

Out: -31.157 $\pm$ 565.255 χ^2 /NDF:17.1/26

All: -681.556 $\pm$ 393.163 χ^2 /NDF: 41.0/51

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: 1971.521+/-0.526 χ^2/NDF : 7323.3/8

Right Out: 2293.273+/-0.615 χ^2/NDF : 453202.3/17

Left In: 1965.196+/-0.496 χ^2/NDF : 3297.7/8

Left: 1968.177+/-0.361 χ^2/NDF : 10697.6/17

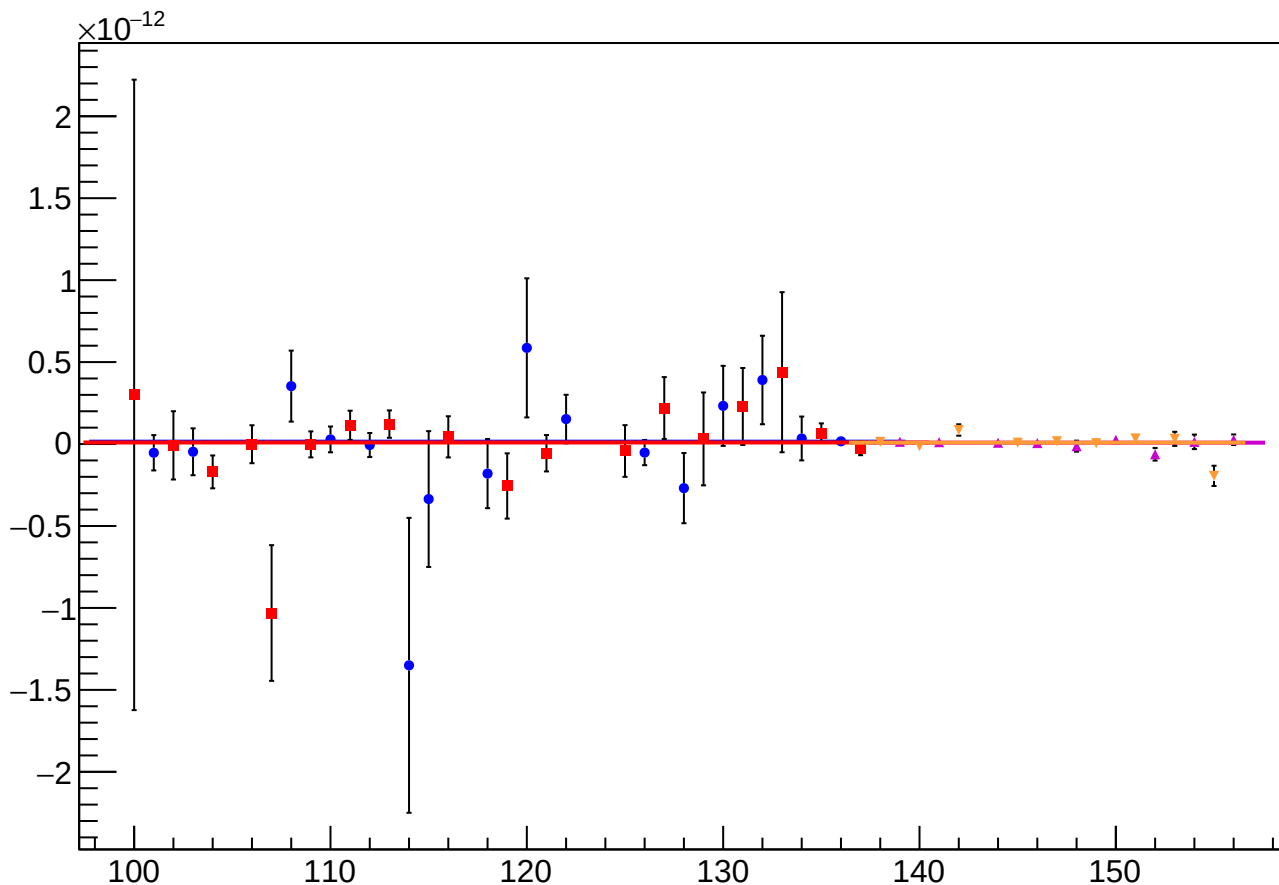
Right: 2303.467+/-0.436 χ^2/NDF : 856509.6/33

In: 2101.879+/-0.387 χ^2/NDF : 599464.8/24

Out: 2107.210+/-0.400 χ^2/NDF : 618559.6/26

All: 2104.458+/-0.278 χ^2/NDF : 1218116.2/51

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 :18.3/8

Right Out: 0.000+/-0.000 χ^2/NDF : 19.5/17

Left In: 0.000+/-0.000 χ^2/NDF :4.7/8

Left: 0.000+/-0.000 χ^2/NDF : 23.0/17

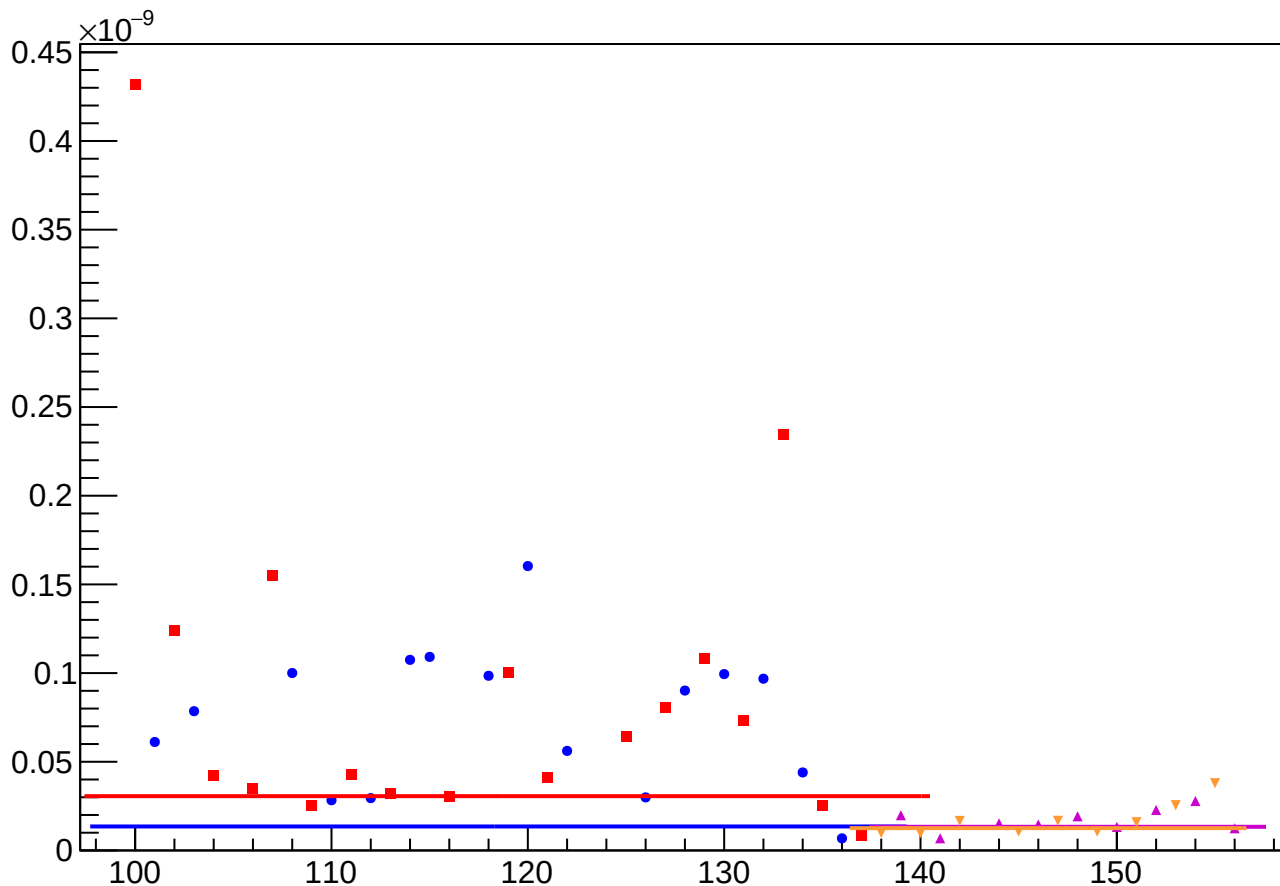
Right: 0.000+/-0.000 χ^2/NDF : 34.5/33

In: 0.000+/-0.000 χ^2/NDF :19.8/24

Out: 0.000+/-0.000 χ^2/NDF :37.9/26

All: 0.000+/-0.000 χ^2/NDF : 57.7/51

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 : 735411.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2349183.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 920231.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1663759.1/17

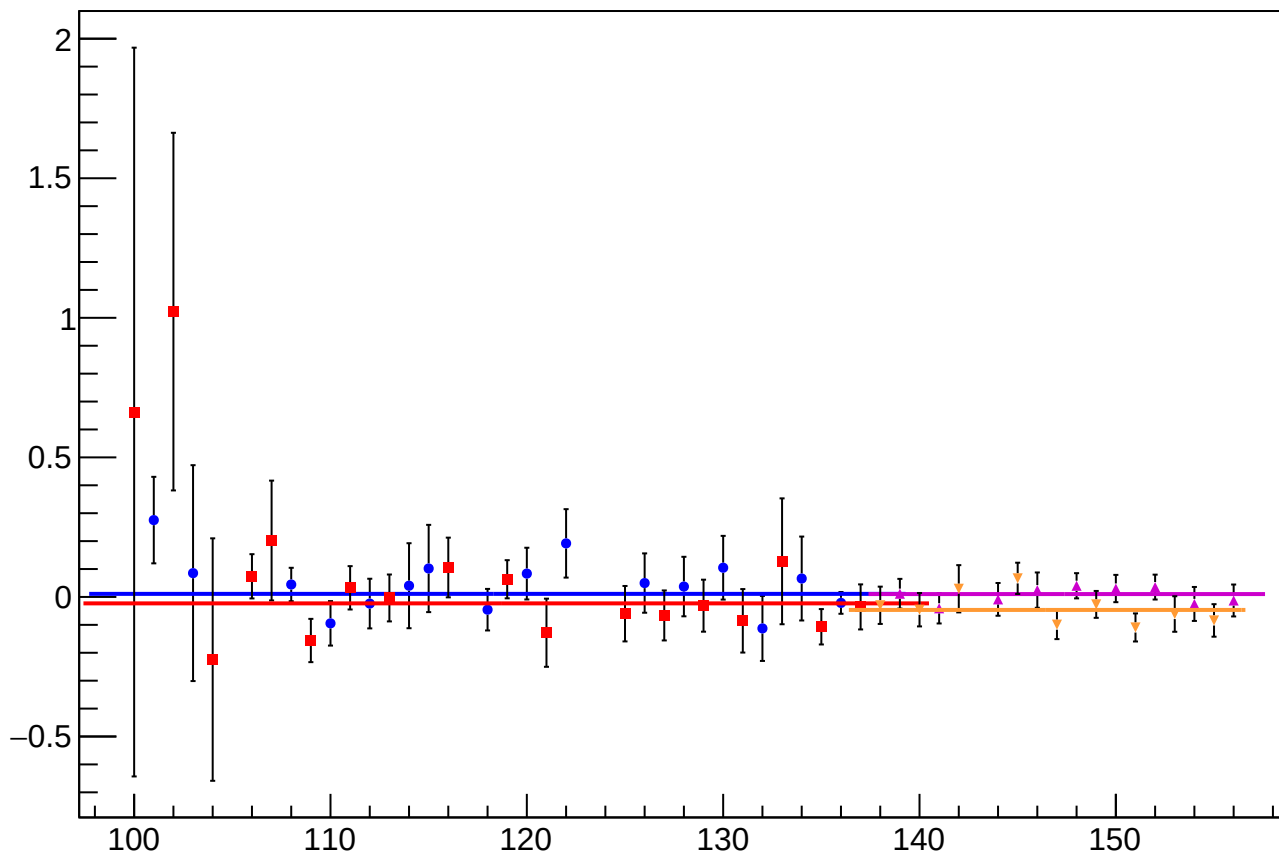
Right: 0.000+/-0.000 χ^2/NDF : 6517274.2/33

In: 0.000+/-0.000 χ^2/NDF : 4336592.6/24

Out: 0.000+/-0.000 χ^2/NDF : 4083238.6/26

All: 0.000+/-0.000 χ^2/NDF : 8442543.6/51

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.047 ± 0.019 $\chi^2/\text{NDF}: 8.2/8$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 16.0/17$

Left In: 0.010 ± 0.018 $\chi^2/\text{NDF}: 2.5/8$

Left: -0.016 ± 0.013 $\chi^2/\text{NDF}: 15.4/17$

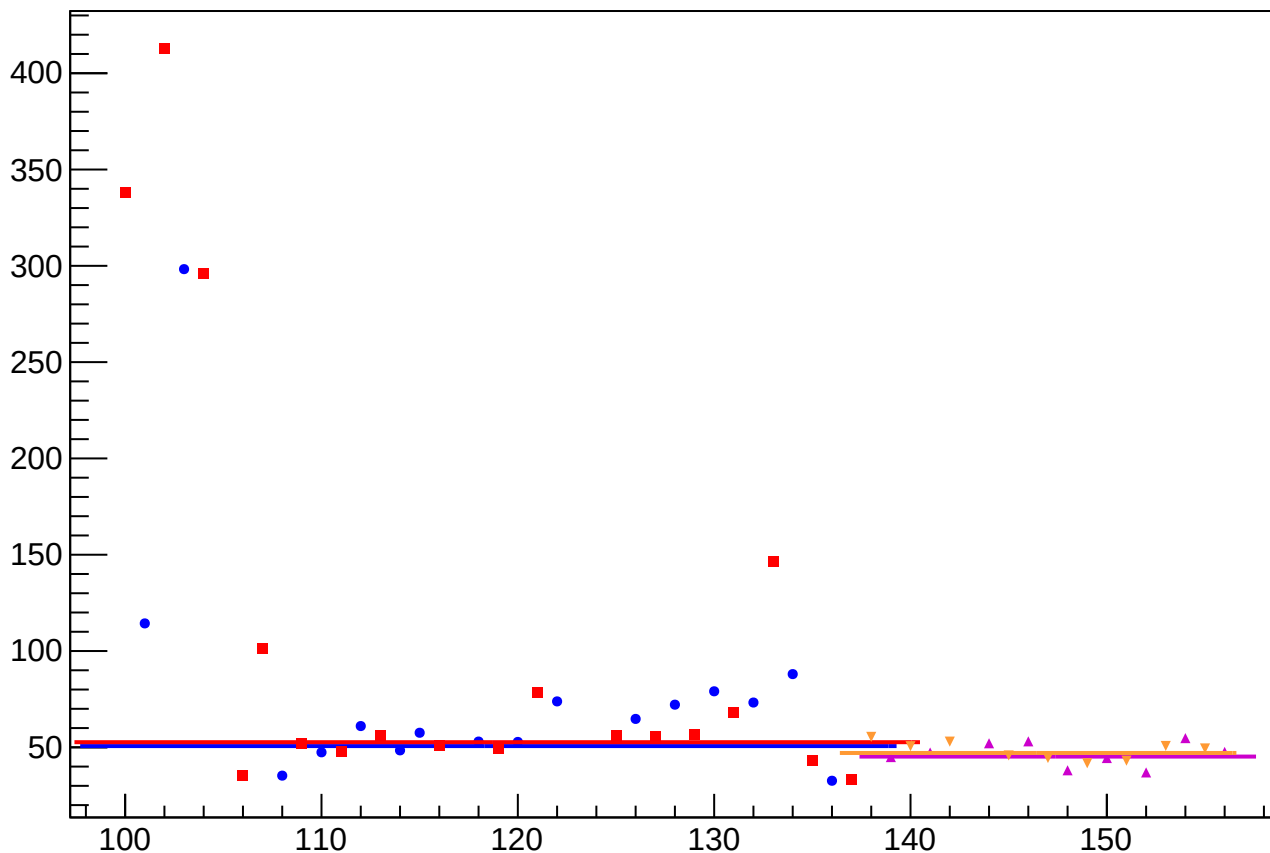
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.011 ± 0.014 $\chi^2/\text{NDF}: 14.2/24$

Out: -0.037 ± 0.015 $\chi^2/\text{NDF}: 24.7/26$

All: -0.011 ± 0.010 $\chi^2/\text{NDF}: 44.5/51$

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: 47.069 $\pm$ 0.014 χ^2 /NDF: 101072.3/8

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 45.197 $\pm$ 0.012 χ^2 /NDF: 233632.2/8

Left: 46.051 $\pm$ 0.009 χ^2 /NDF: 345007.2/17

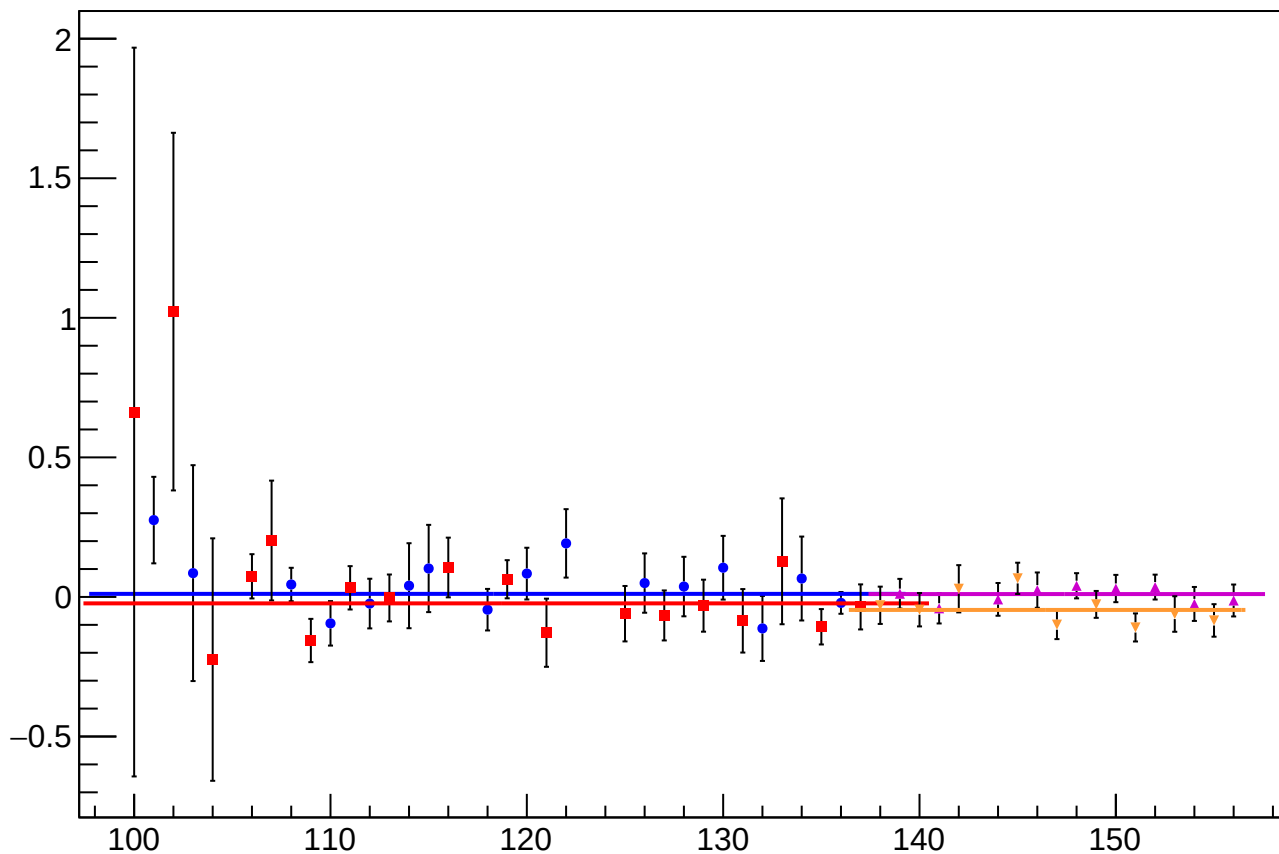
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 47.341 $\pm$ 0.010 χ^2 /NDF: 2575344.1/24

Out: 49.360 $\pm$ 0.010 χ^2 /NDF: 2382288.2/26

All: 48.275 $\pm$ 0.007 χ^2 /NDF: 4977671.9/51

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.047 ± 0.019 $\chi^2/\text{NDF}: 8.2/8$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 16.0/17$

Left In: 0.010 ± 0.018 $\chi^2/\text{NDF}: 2.5/8$

Left: -0.016 ± 0.013 $\chi^2/\text{NDF}: 15.4/17$

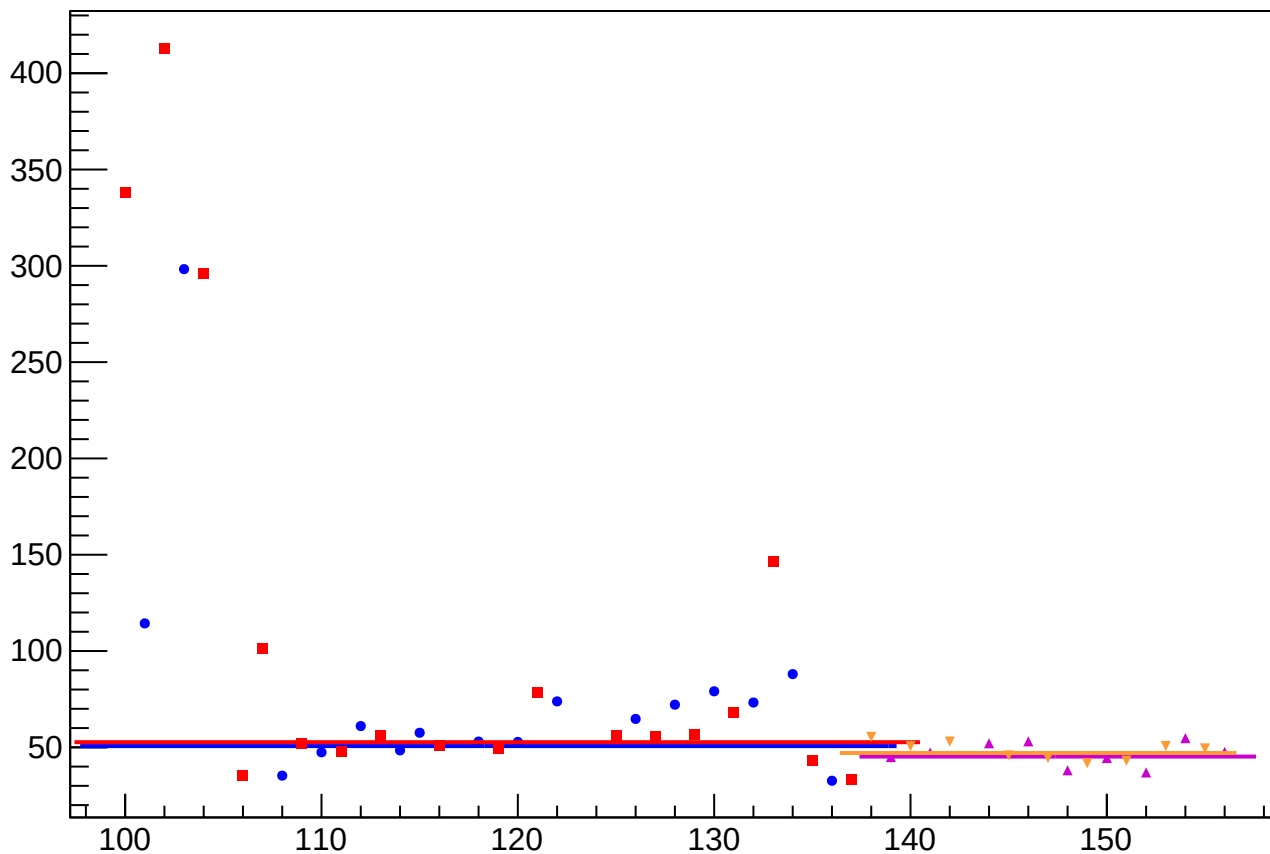
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.011 ± 0.014 $\chi^2/\text{NDF}: 14.2/24$

Out: -0.037 ± 0.015 $\chi^2/\text{NDF}: 24.7/26$

All: -0.011 ± 0.010 $\chi^2/\text{NDF}: 44.5/51$

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: 47.069 $\pm$ 0.014 χ^2 /NDF: 101072.3/8

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 45.197 $\pm$ 0.012 χ^2 /NDF: 233632.2/8

Left: 46.051 $\pm$ 0.009 χ^2 /NDF: 345007.2/17

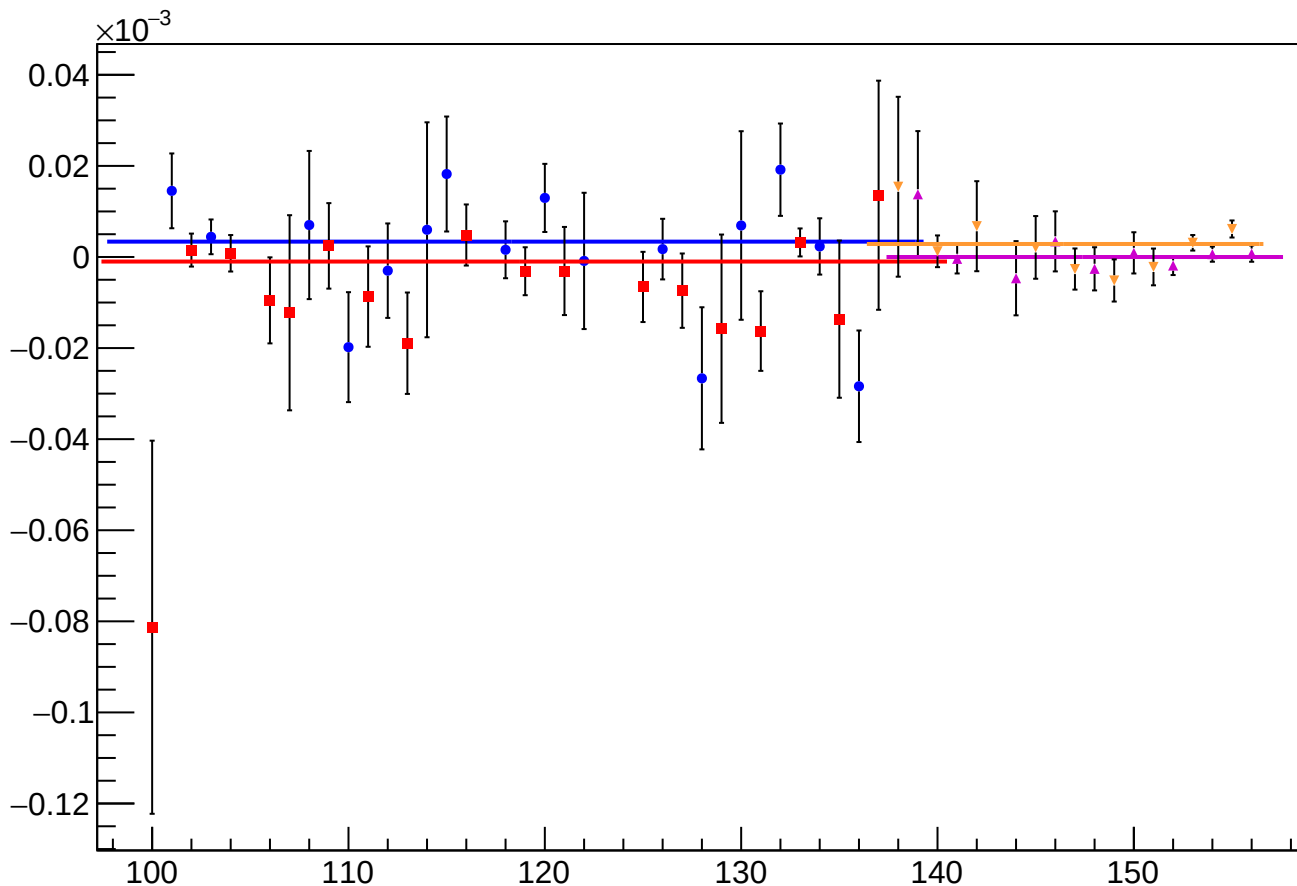
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 47.341 $\pm$ 0.010 χ^2 /NDF: 2575344.1/24

Out: 49.360 $\pm$ 0.010 χ^2 /NDF: 2382288.2/26

All: 48.275 $\pm$ 0.007 χ^2 /NDF: 4977671.9/51

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 : 9.9/8

Right Out: -0.000+/-0.000 χ^2/NDF : 17.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.1/8

Left: 0.000+/-0.000 χ^2/NDF : 17.1/17

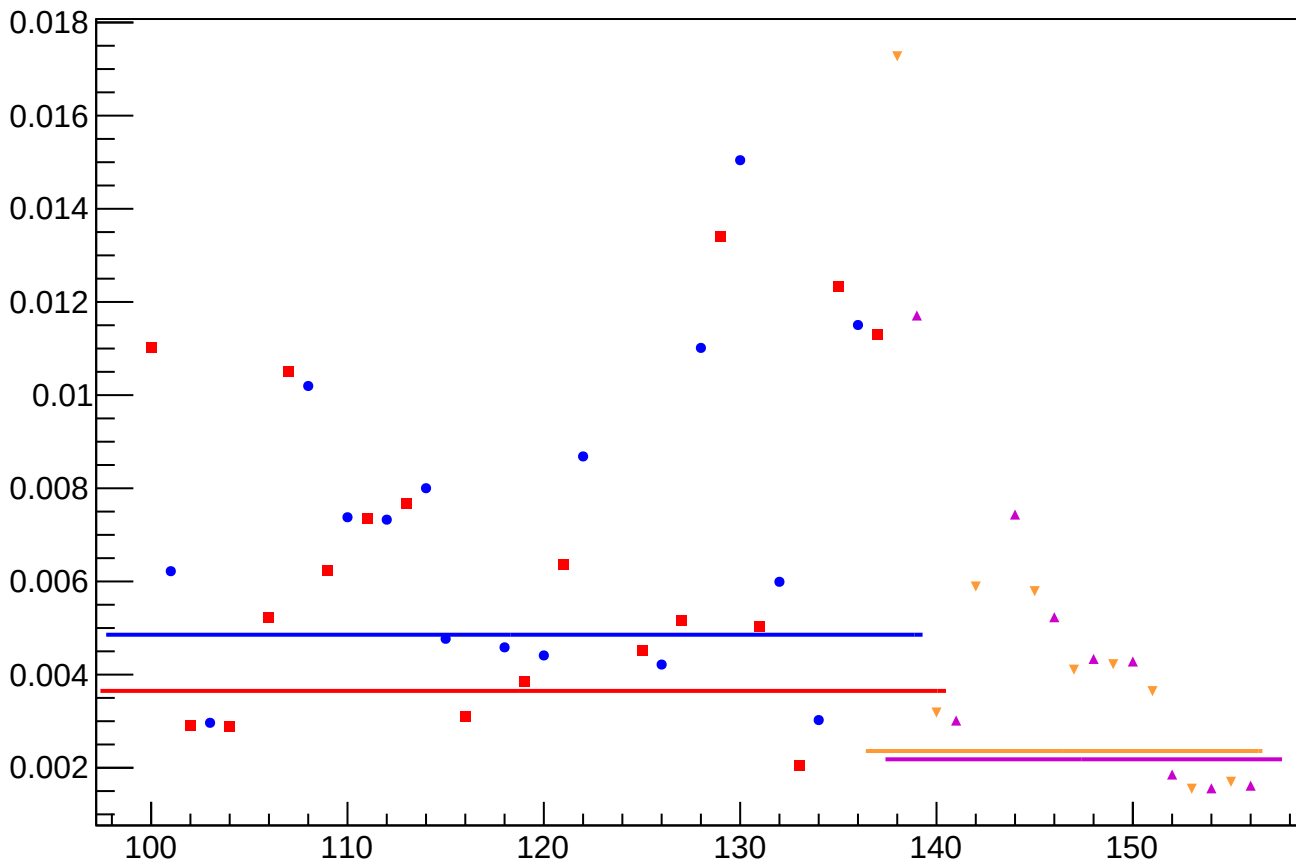
Right: 0.000+/-0.000 χ^2/NDF : 42.3/33

In: 0.000+/-0.000 χ^2/NDF : 27.5/24

Out: 0.000+/-0.000 χ^2/NDF : 31.4/26

All: 0.000+/-0.000 χ^2/NDF : 59.6/51

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: 0.002+/-0.000 χ^2/NDF : 3530695.0/8

Right Out: 0.004+/-0.000 χ^2/NDF : 3108848.8/17

Left In: 0.002+/-0.000 χ^2/NDF : 3711574.3/8

Left: 0.002+/-0.000 χ^2/NDF : 7274068.7/17

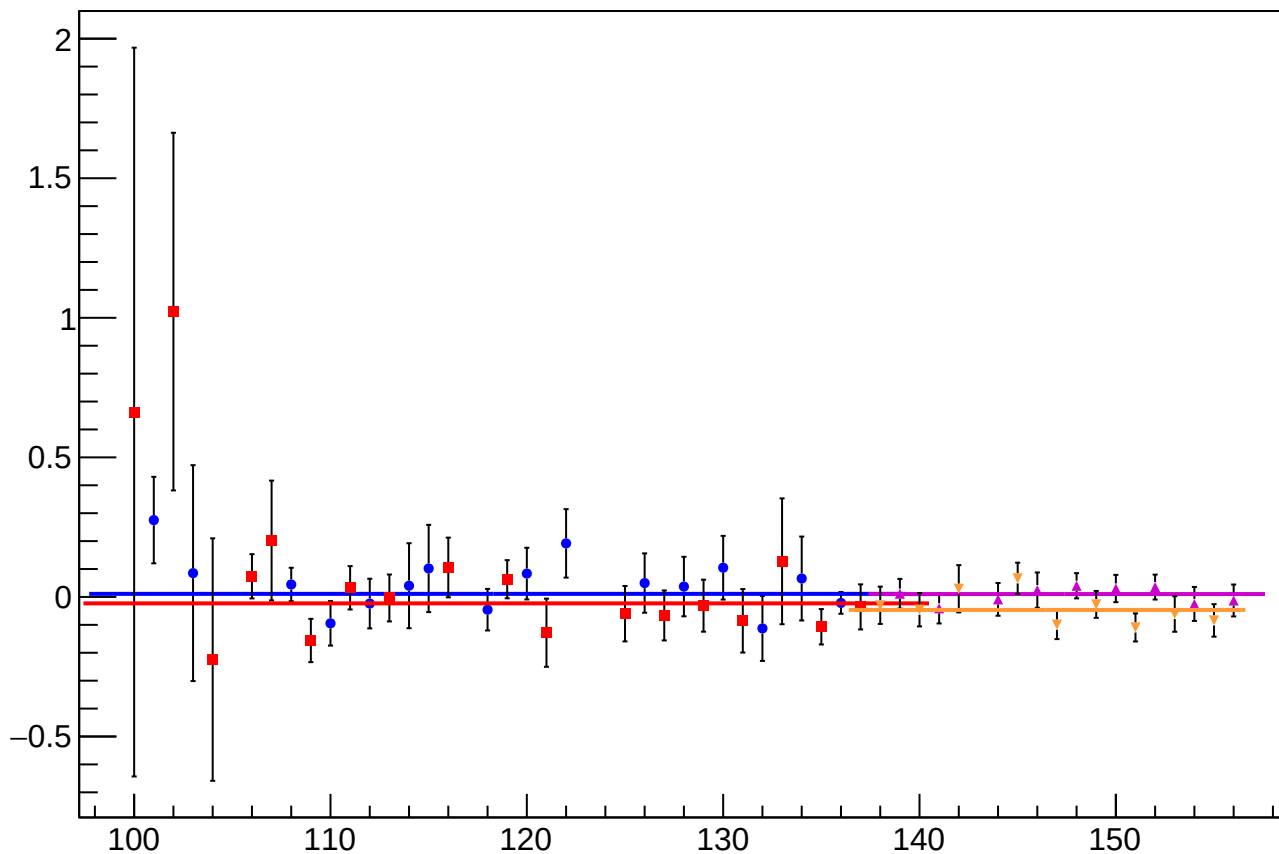
Right: 0.004+/-0.000 χ^2/NDF : 6282872.0/33

In: 0.003+/-0.000 χ^2/NDF : 9205364.0/24

Out: 0.003+/-0.000 χ^2/NDF : 7574747.6/26

All: 0.003+/-0.000 χ^2/NDF : 16801969.3/51

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 χ^2/NDF : 11.7/15

Left Out: -0.047 ± 0.019 χ^2/NDF : 8.2/8

Right Out: -0.023 ± 0.023 χ^2/NDF : 15.9/17

Left In: 0.010 ± 0.018 χ^2/NDF : 2.5/8

Left: -0.016 ± 0.013 χ^2/NDF : 15.4/17

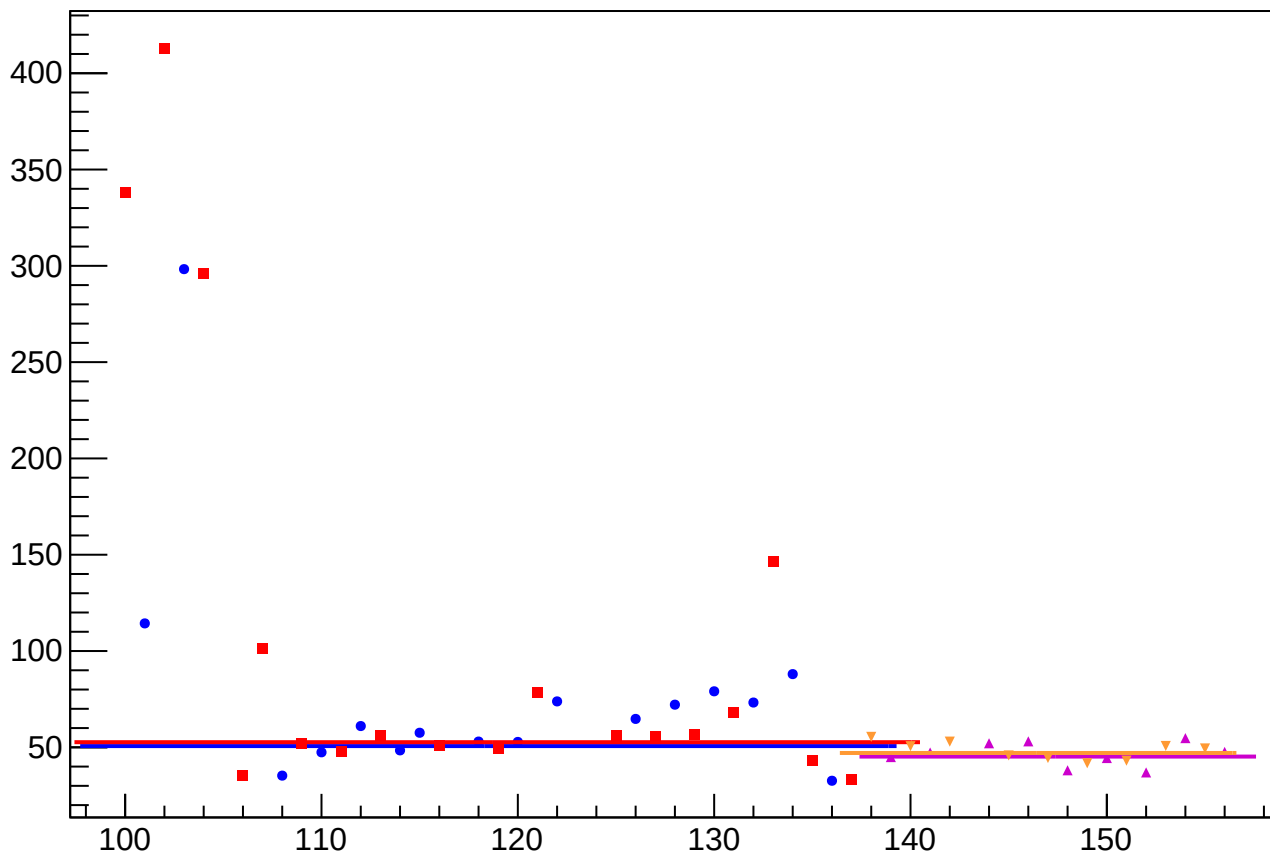
Right: -0.005 ± 0.016 χ^2/NDF : 28.8/33

In: 0.011 ± 0.014 χ^2/NDF : 14.2/24

Out: -0.037 ± 0.015 χ^2/NDF : 24.7/26

All: -0.011 ± 0.010 χ^2/NDF : 44.5/51

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: 47.069 $\pm$ 0.014 χ^2 /NDF: 101088.3/8

Right Out: 52.667 $\pm$ 0.016 χ^2 /NDF: 2211822.2/17

Left In: 45.197 $\pm$ 0.012 χ^2 /NDF: 233598.4/8

Left: 46.051 $\pm$ 0.009 χ^2 /NDF: 344986.6/17

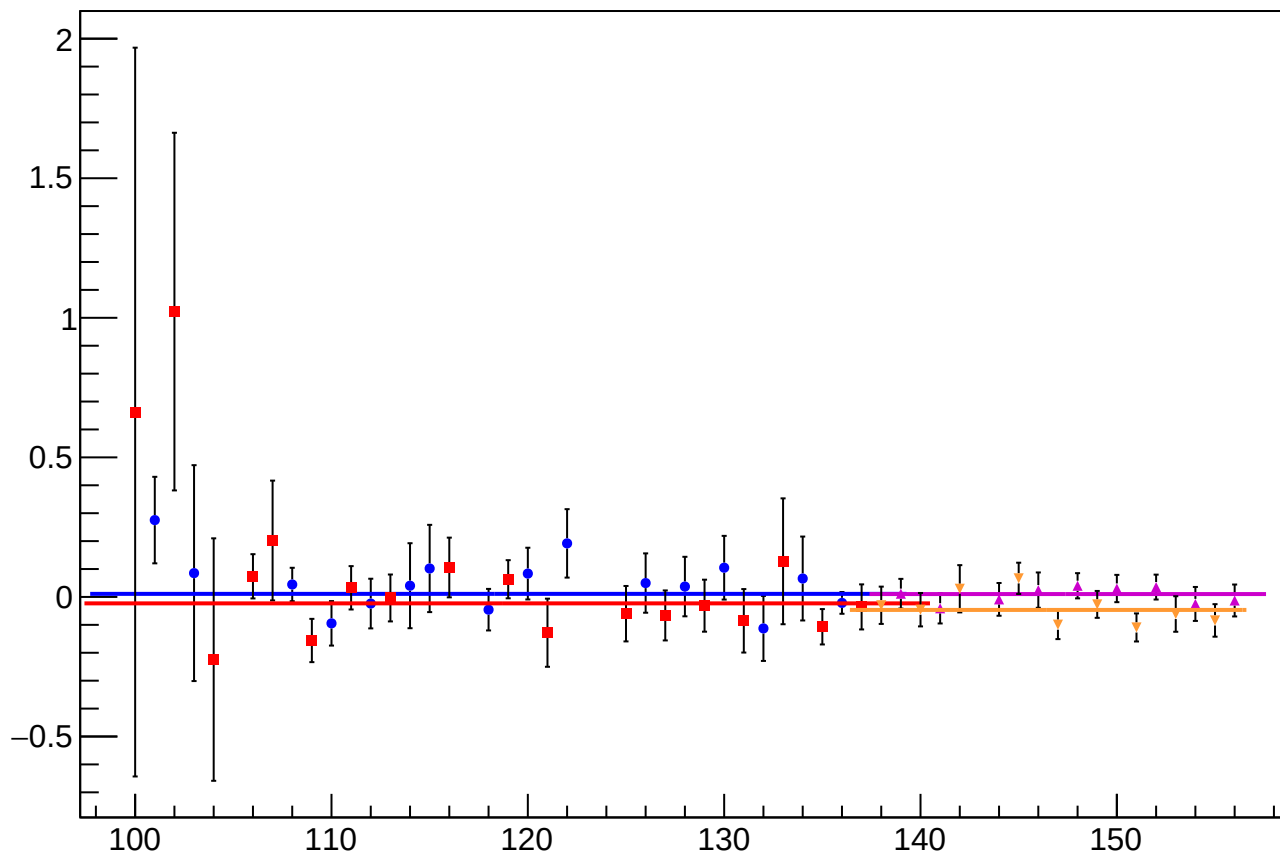
Right: 51.601 $\pm$ 0.011 χ^2 /NDF: 4486238.7/33

In: 47.341 $\pm$ 0.010 χ^2 /NDF: 2575220.3/24

Out: 49.360 $\pm$ 0.010 χ^2 /NDF: 2382209.0/26

All: 48.276 $\pm$ 0.007 χ^2 /NDF: 4977468.5/51

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.047 ± 0.019 $\chi^2/\text{NDF}: 8.2/8$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 15.9/17$

Left In: 0.010 ± 0.018 $\chi^2/\text{NDF}: 2.5/8$

Left: -0.016 ± 0.013 $\chi^2/\text{NDF}: 15.4/17$

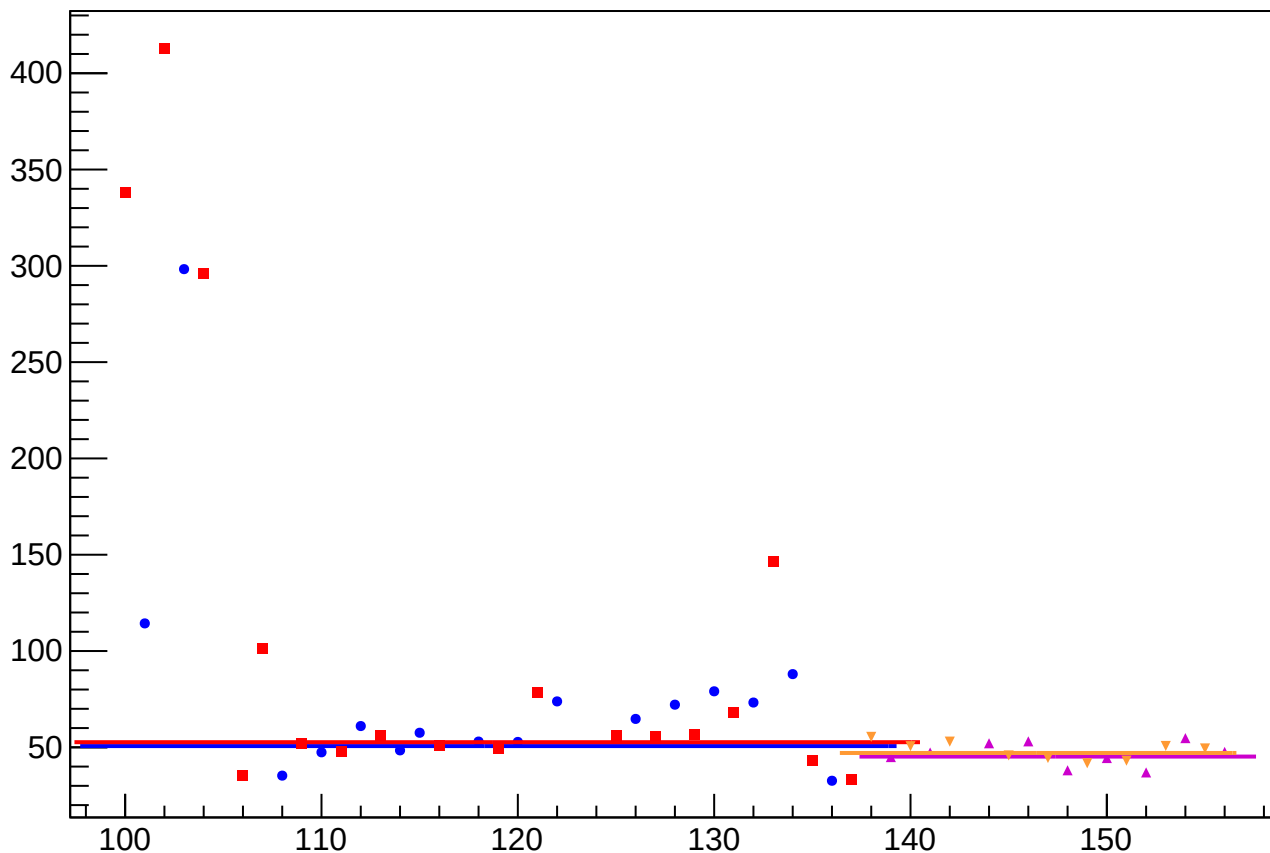
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.011 ± 0.014 $\chi^2/\text{NDF}: 14.2/24$

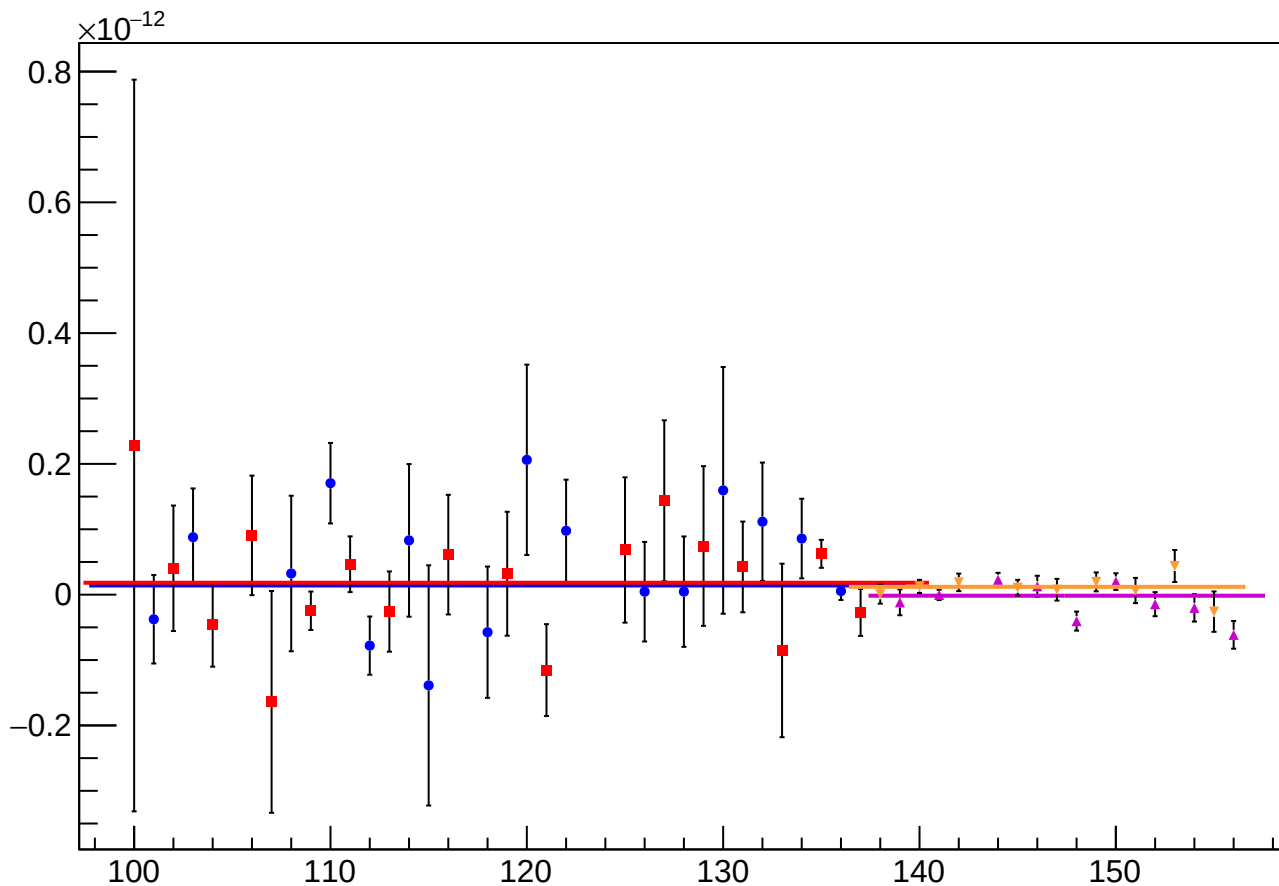
Out: -0.037 ± 0.015 $\chi^2/\text{NDF}: 24.7/26$

All: -0.011 ± 0.010 $\chi^2/\text{NDF}: 44.5/51$

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.3/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 4.5/8

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.0/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 25.6/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 34.3/17

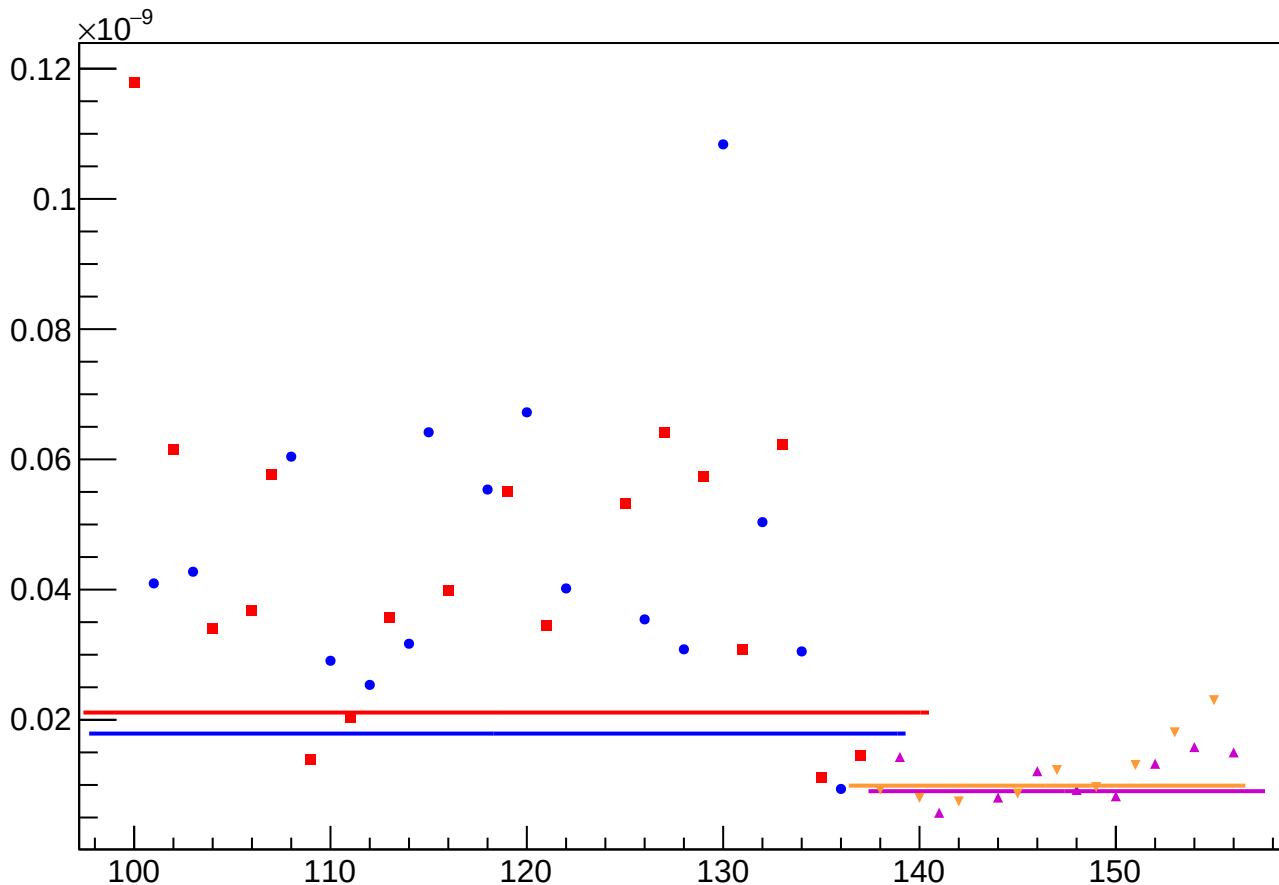
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 38.4/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 47.6/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 22.8/26

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 74.3/51

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 : 841891.1/8

Right Out: 0.000+/-0.000 χ^2/NDF : 2621588.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 1069060.3/8

Left: 0.000+/-0.000 χ^2/NDF : 1943389.2/17

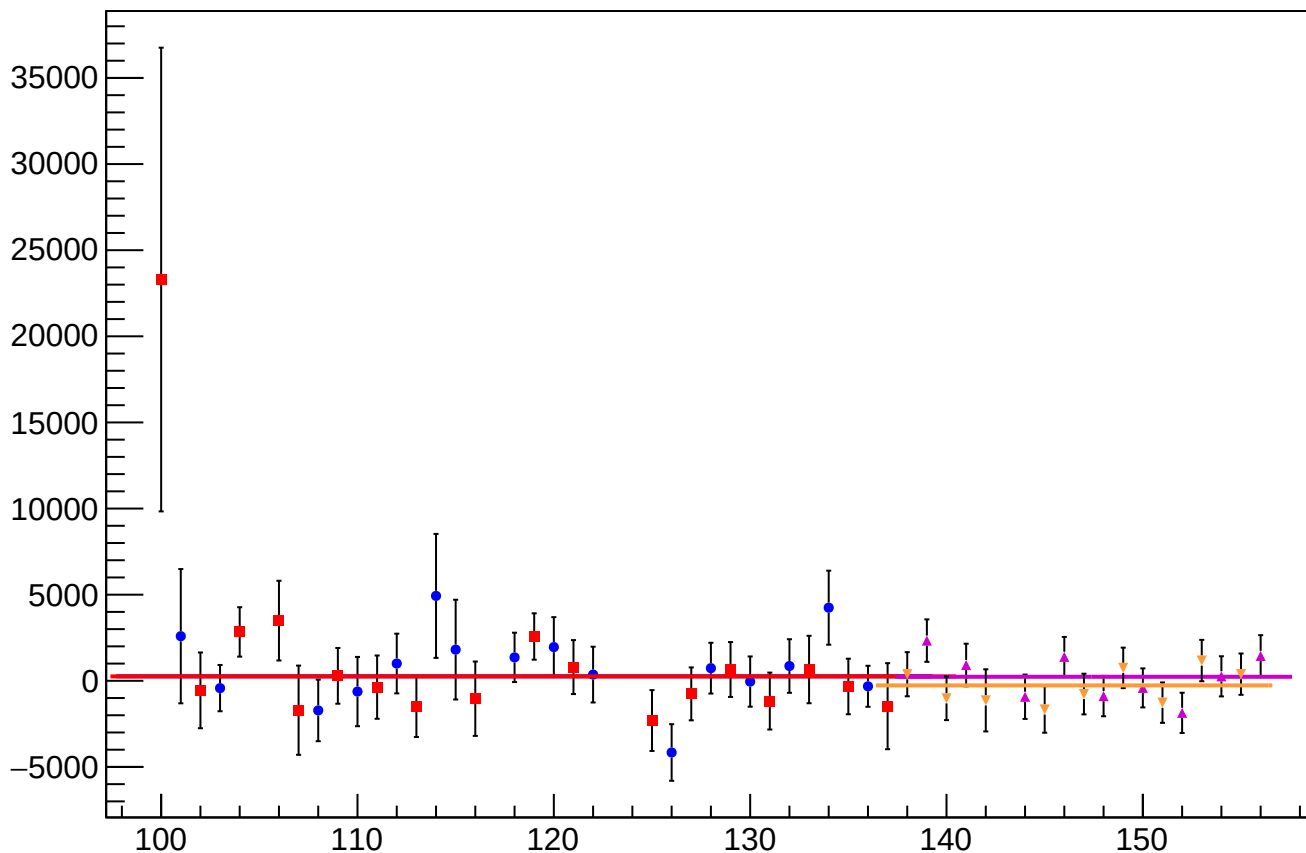
Right: 0.000+/-0.000 χ^2/NDF : 6093228.6/33

In: 0.000+/-0.000 χ^2/NDF : 5523115.6/24

Out: 0.000+/-0.000 χ^2/NDF : 4852181.8/26

All: 0.000+/-0.000 χ^2/NDF : 10445427.4/51

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: -267.335 $\pm$ 420.904 χ^2 /NDF:5.3/8

Right Out: 255.934 $\pm$ 425.784 χ^2 /NDF: 17.4/17

Left In: 232.993 $\pm$ 397.403 χ^2 /NDF:10.5/8

Left: -2.814 $\pm$ 288.958 χ^2 /NDF: 16.5/17

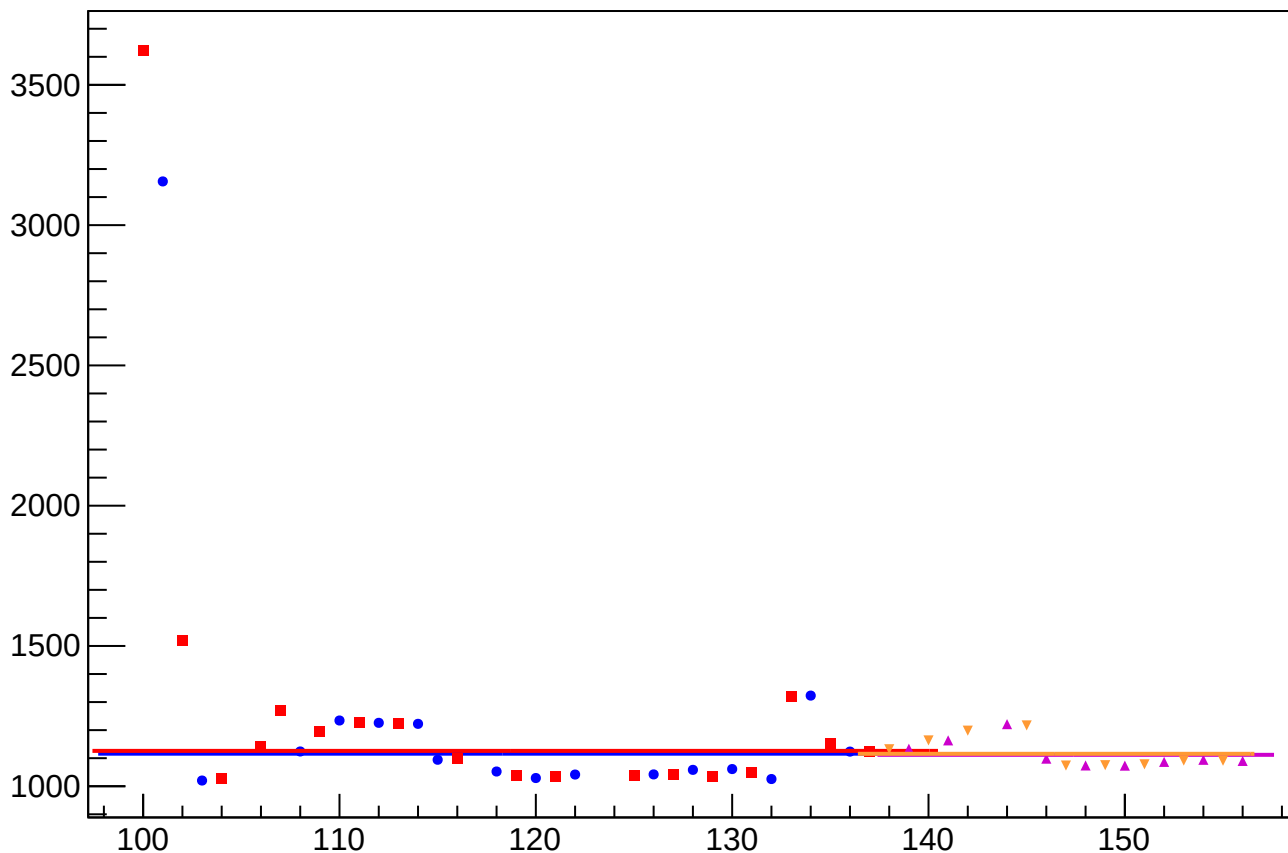
Right: 258.372 $\pm$ 300.676 χ^2 /NDF: 34.3/33

In: 245.974 $\pm$ 290.163 χ^2 /NDF:27.4/24

Out: -8.717 $\pm$ 299.335 χ^2 /NDF:23.4/26

All: 122.590 $\pm$ 208.343 χ^2 /NDF: 51.3/51

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: 1115.573+/-0.298 χ^2/NDF : 27156.4/8

Right Out: 1126.016+/-0.301 χ^2/NDF : 222106.0/17

Left In: 1111.933+/-0.281 χ^2/NDF : 25265.6/8

Left: 1113.649+/-0.204 χ^2/NDF : 52501.1/17

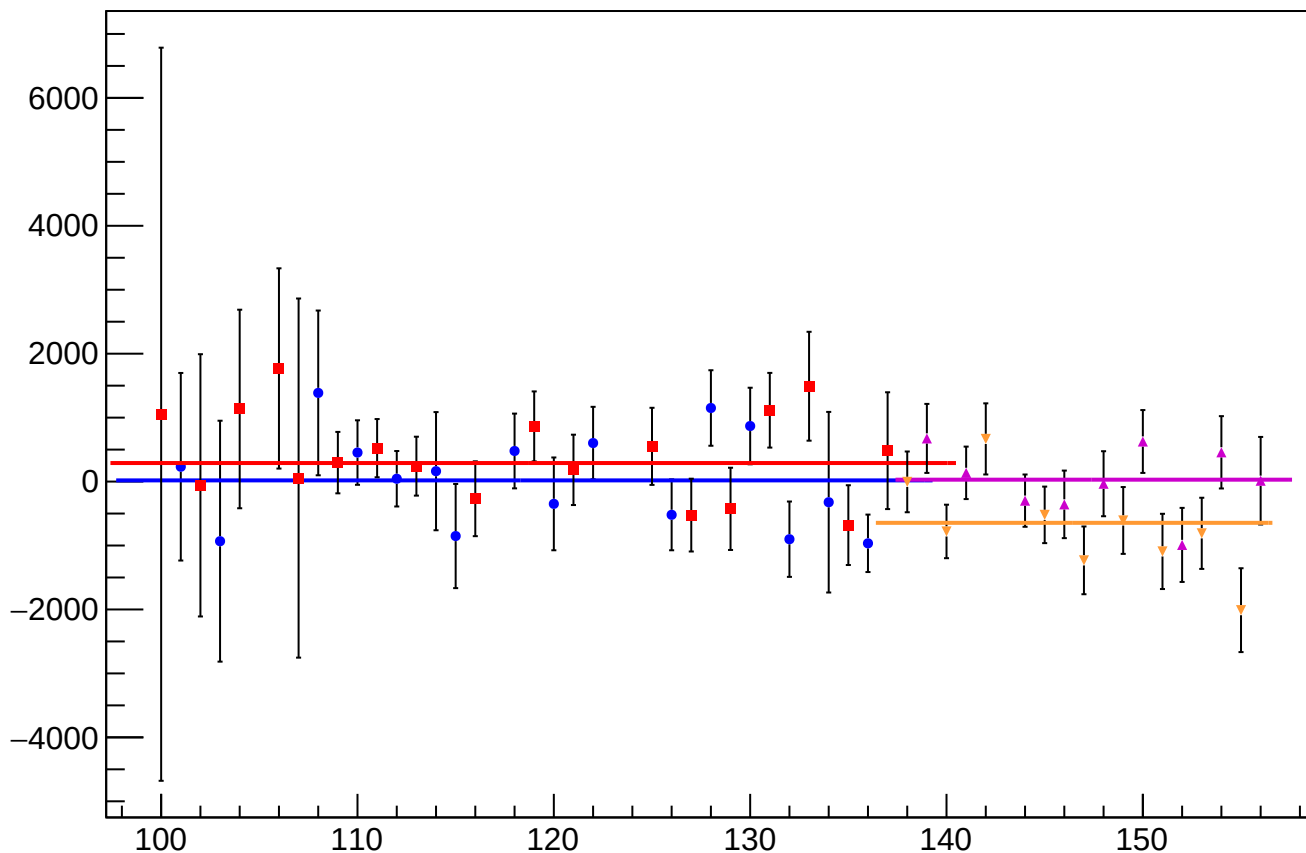
Right: 1121.039+/-0.213 χ^2/NDF : 846041.8/33

In: 1113.873+/-0.205 χ^2/NDF : 648758.6/24

Out: 1120.734+/-0.212 χ^2/NDF : 249870.7/26

All: 1117.197+/-0.147 χ^2/NDF : 899171.1/51

asym_us_dd_atlr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.468 ± 161.237 $\chi^2/\text{NDF}: 19.2/15$

Left Out: -645.343 ± 171.086 $\chi^2/\text{NDF}: 13.8/8$

Right Out: 289.946 ± 156.189 $\chi^2/\text{NDF}: 13.5/17$

Left In: 29.538 ± 168.567 $\chi^2/\text{NDF}: 7.8/8$

Left: -302.897 ± 120.076 $\chi^2/\text{NDF}: 29.5/17$

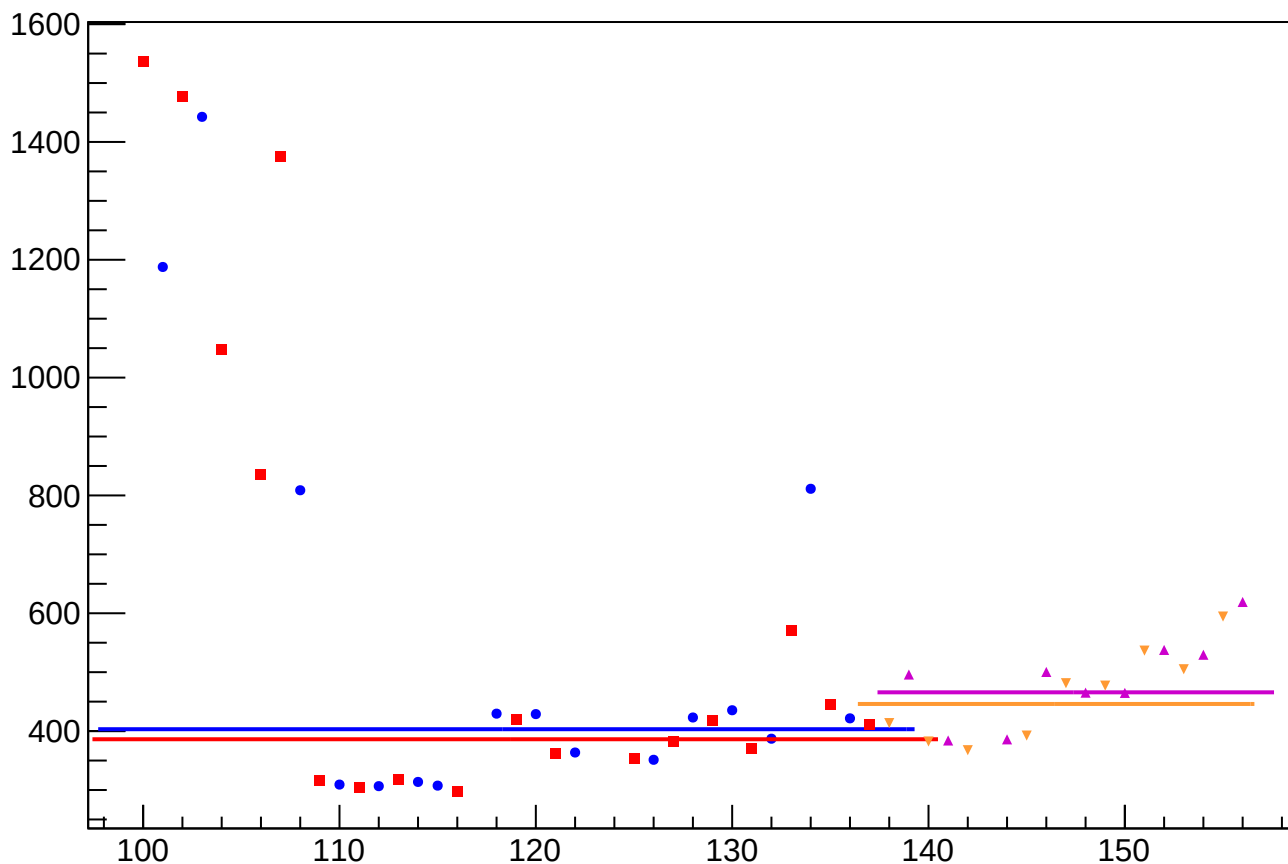
Right: 158.523 ± 112.184 $\chi^2/\text{NDF}: 34.1/33$

In: 23.757 ± 116.517 $\chi^2/\text{NDF}: 27.0/24$

Out: -135.213 ± 115.350 $\chi^2/\text{NDF}: 43.6/26$

All: -56.528 ± 81.974 $\chi^2/\text{NDF}: 71.6/51$

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: 446.049+/-0.121 χ^2/NDF :313177.4/8

Right Out: 386.146+/-0.110 χ^2/NDF : 1759113.8/17

Left In: 465.793+/-0.119 χ^2/NDF :327188.3/8

Left: 456.067+/-0.085 χ^2/NDF : 653882.5/17

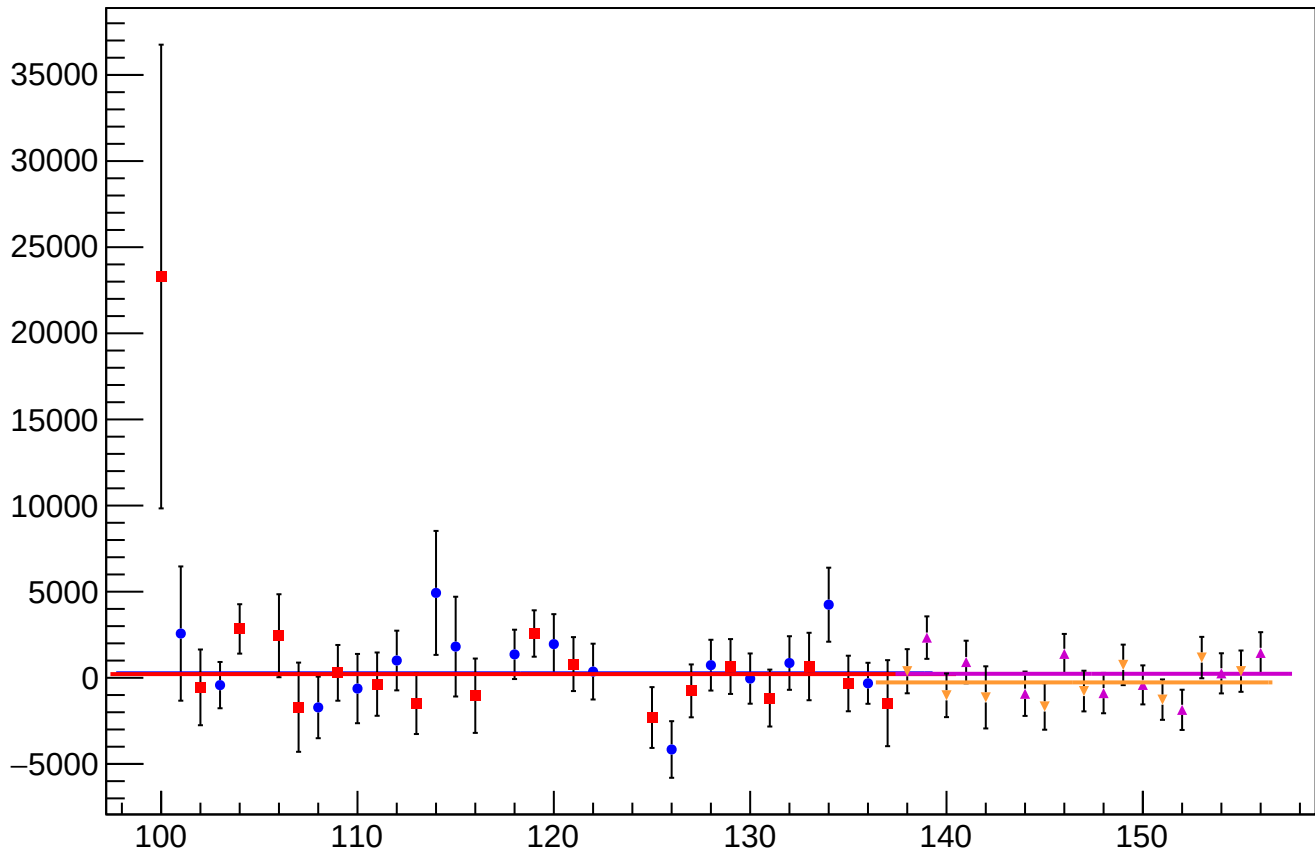
Right: 394.399+/-0.079 χ^2/NDF : 3579081.1/33

In: 433.103+/-0.082 χ^2/NDF :2279657.1/24

Out: 413.376+/-0.082 χ^2/NDF :2206019.9/26

All: 423.140+/-0.058 χ^2/NDF : 4514629.8/51

cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415 $\pm$ 424.657 χ^2 /NDF: 16.9/15

Left Out: -267.324 $\pm$ 420.904 χ^2 /NDF:5.3/8

Right Out: 214.501 $\pm$ 426.342 χ^2 /NDF: 16.2/17

Left In: 232.976 $\pm$ 397.403 χ^2 /NDF:10.5/8

Left: -2.818 $\pm$ 288.958 χ^2 /NDF: 16.5/17

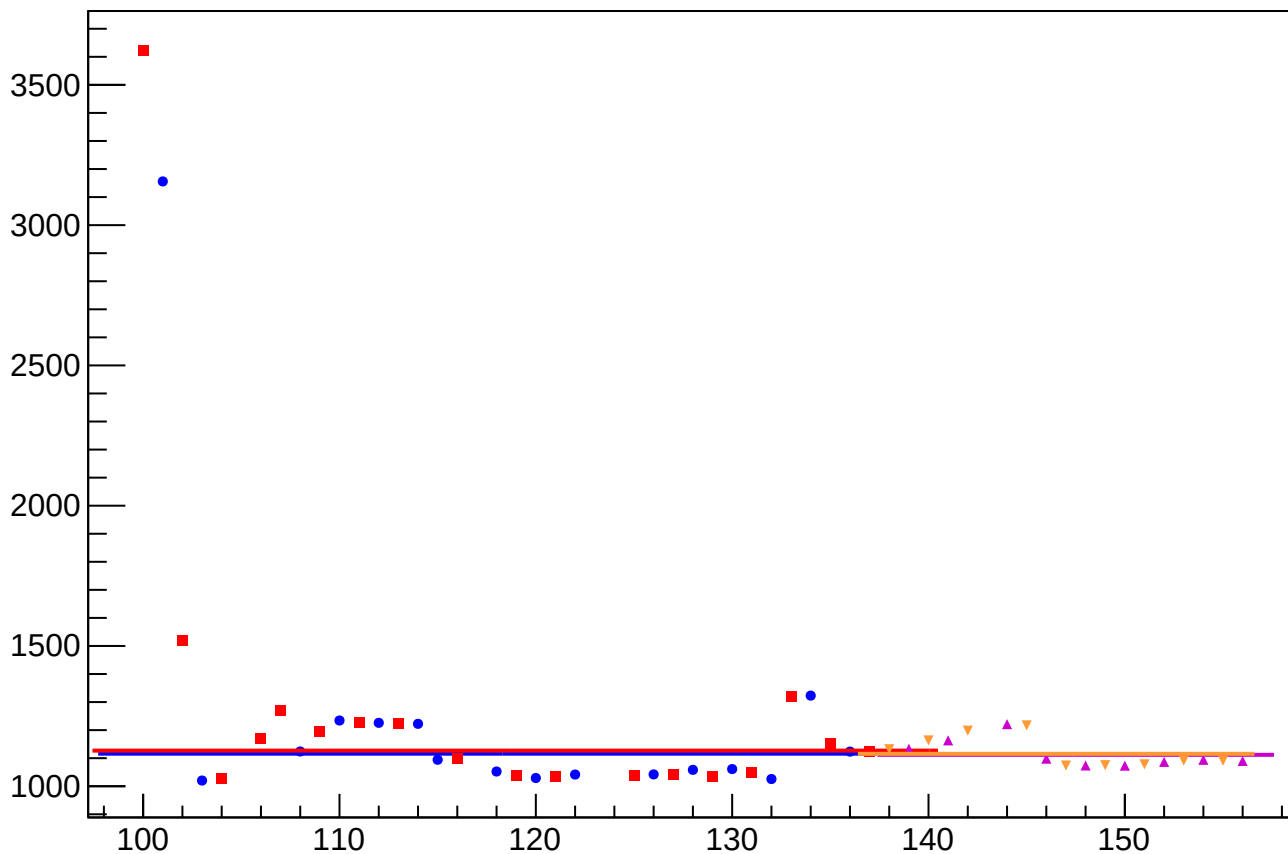
Right: 237.549 $\pm$ 300.872 χ^2 /NDF: 33.2/33

In: 245.787 $\pm$ 290.163 χ^2 /NDF:27.4/24

Out: -29.504 $\pm$ 299.528 χ^2 /NDF:22.2/26

All: 112.512 $\pm$ 208.408 χ^2 /NDF: 50.0/51

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: 1115.573+/-0.298 χ^2/NDF : 27156.4/8

Right Out: 1126.960+/-0.301 χ^2/NDF : 222740.2/17

Left In: 1111.933+/-0.281 χ^2/NDF : 25265.6/8

Left: 1113.649+/-0.204 χ^2/NDF : 52501.1/17

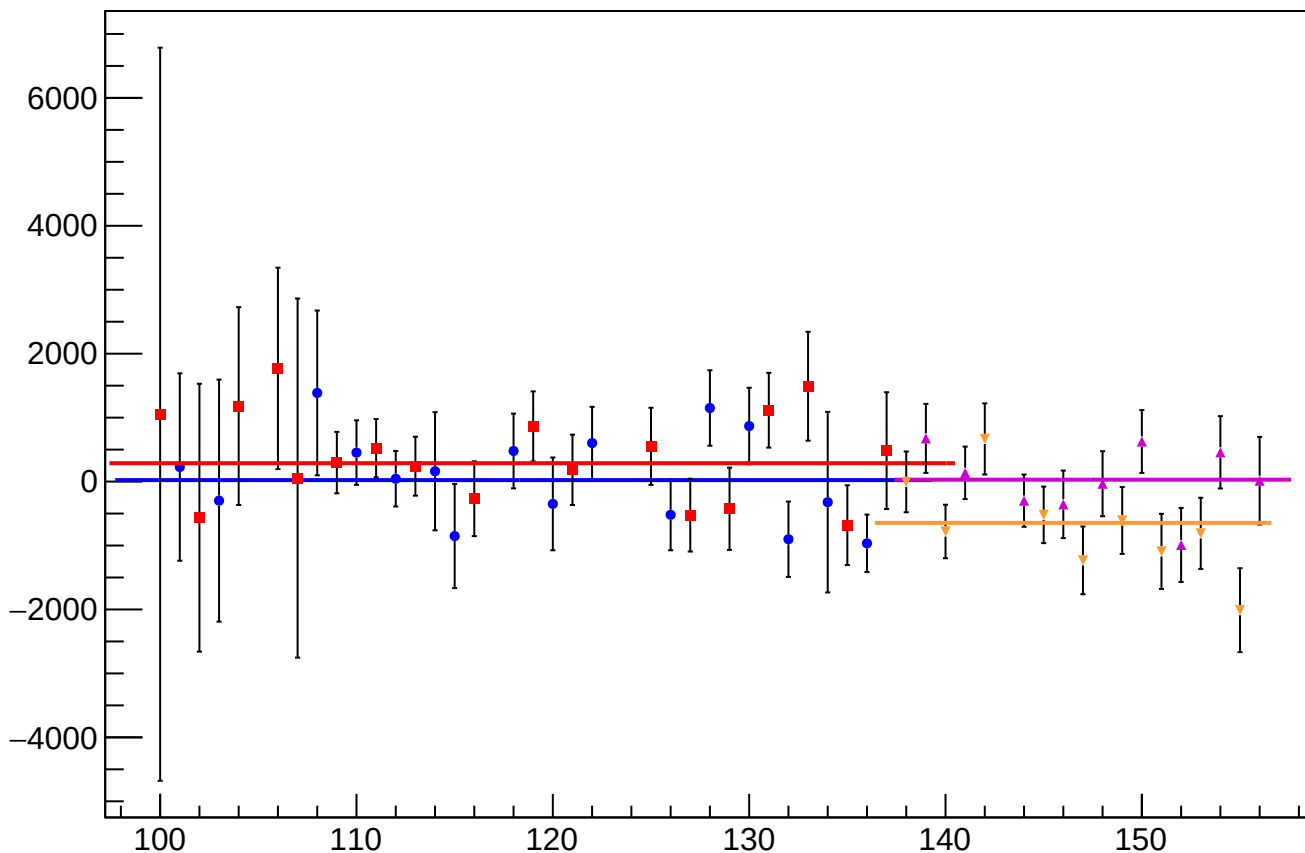
Right: 1121.503+/-0.213 χ^2/NDF : 846784.8/33

In: 1113.873+/-0.205 χ^2/NDF : 648759.6/24

Out: 1121.194+/-0.212 χ^2/NDF : 250619.0/26

All: 1117.417+/-0.147 χ^2/NDF : 899994.9/51

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: -645.460+/-171.085 χ^2/NDF :13.8/8

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: 29.579+/-168.566 χ^2/NDF :7.8/8

Left: -302.932+/-120.075 χ^2/NDF : 29.5/17

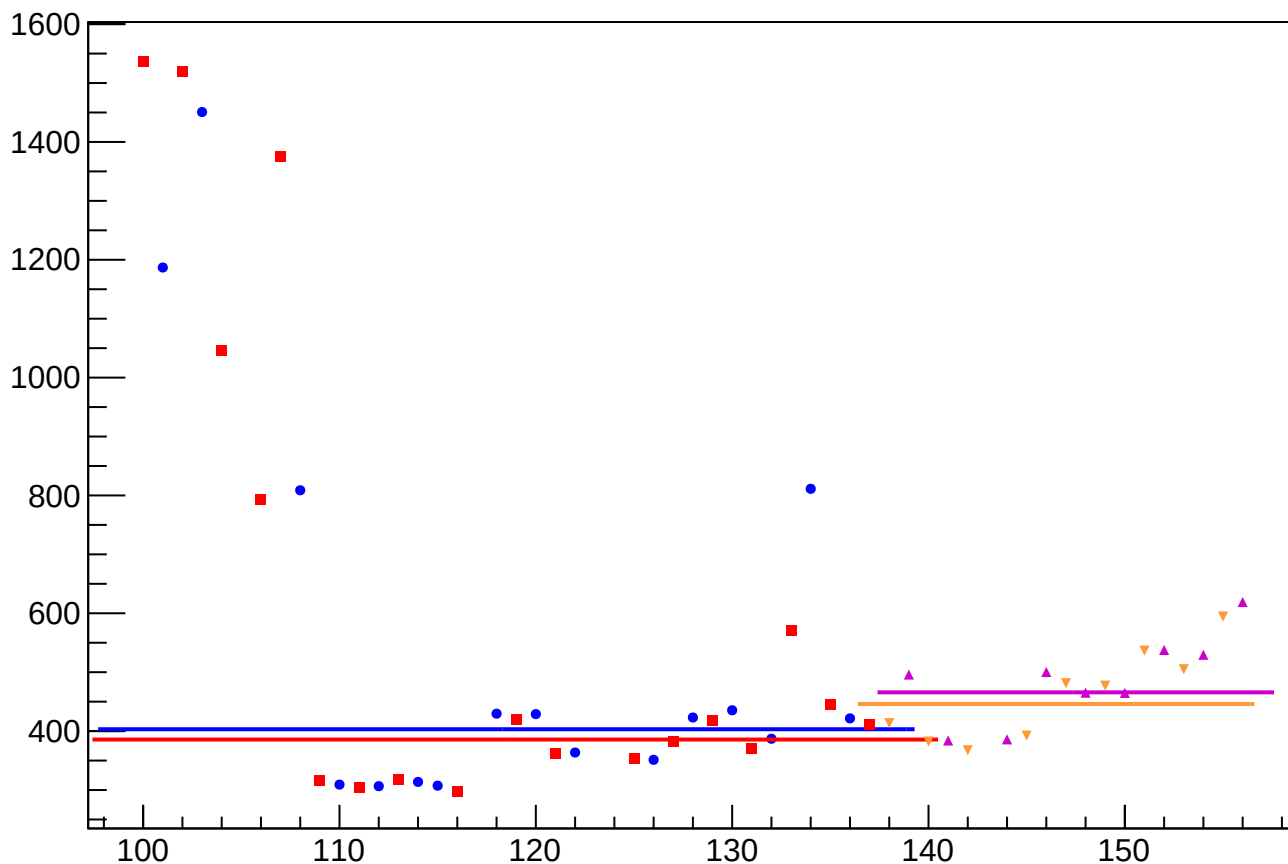
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: 26.103+/-116.517 χ^2/NDF :26.8/24

Out: -136.609+/-115.359 χ^2/NDF :43.7/26

All: -56.065+/-81.978 χ^2/NDF : 71.5/51

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 403.182 $\pm$ 0.114 χ^2/NDF : 1812111.0/15

Left Out: 446.046 $\pm$ 0.121 χ^2/NDF : 313173.8/8

Right Out: 385.682 $\pm$ 0.110 χ^2/NDF : 1747152.2/17

Left In: 465.789 $\pm$ 0.119 χ^2/NDF : 327166.8/8

Left: 456.064 $\pm$ 0.085 χ^2/NDF : 653856.1/17

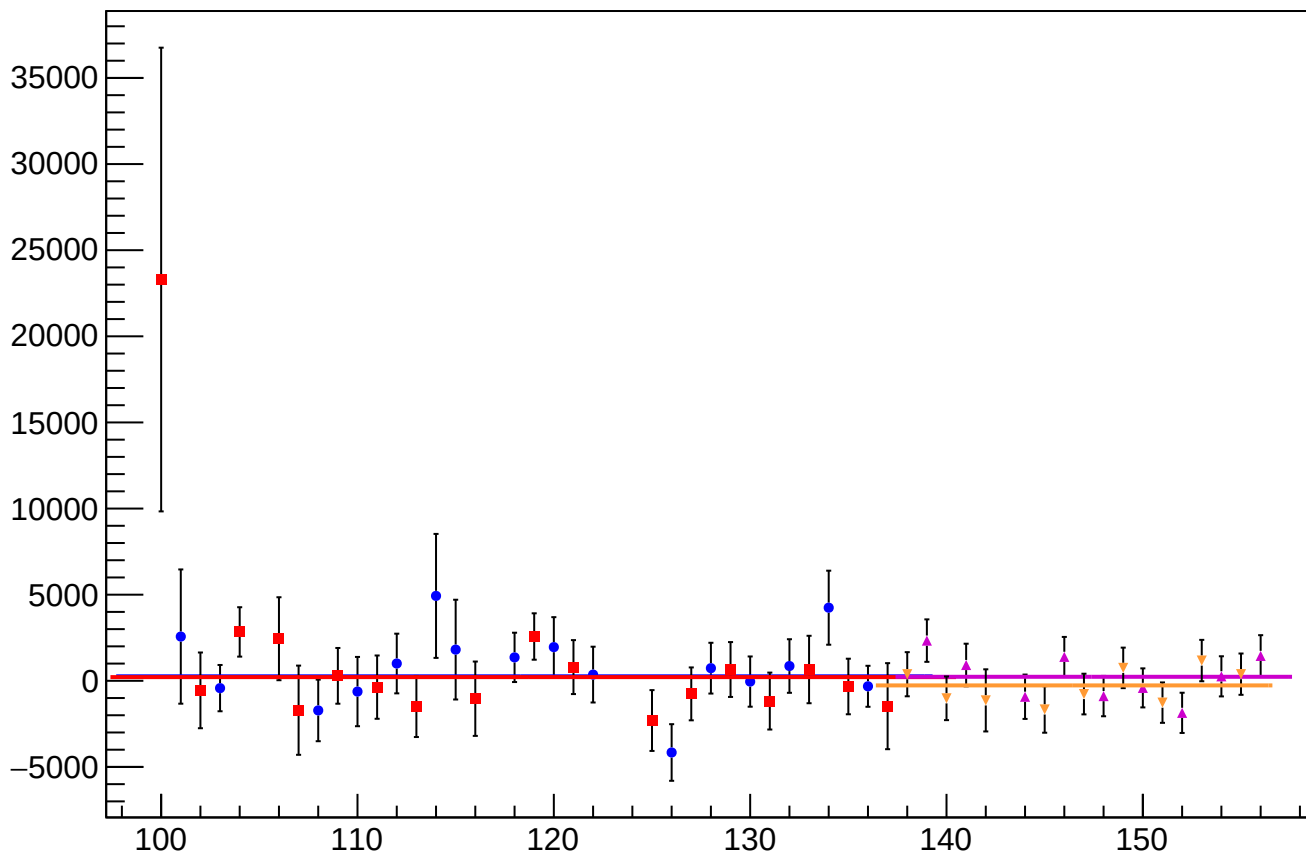
Right: 394.155 $\pm$ 0.079 χ^2/NDF : 3571416.8/33

In: 433.096 $\pm$ 0.082 χ^2/NDF : 2283351.2/24

Out: 413.126 $\pm$ 0.082 χ^2/NDF : 2196105.8/26

All: 423.011 $\pm$ 0.058 χ^2/NDF : 4509123.7/51

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415 $\pm$ 424.657 χ^2 /NDF: 16.9/15

Left Out: -267.324 $\pm$ 420.904 χ^2 /NDF:5.3/8

Right Out: 214.501 $\pm$ 426.342 χ^2 /NDF: 16.2/17

Left In: 232.976 $\pm$ 397.403 χ^2 /NDF:10.5/8

Left: -2.818 $\pm$ 288.958 χ^2 /NDF: 16.5/17

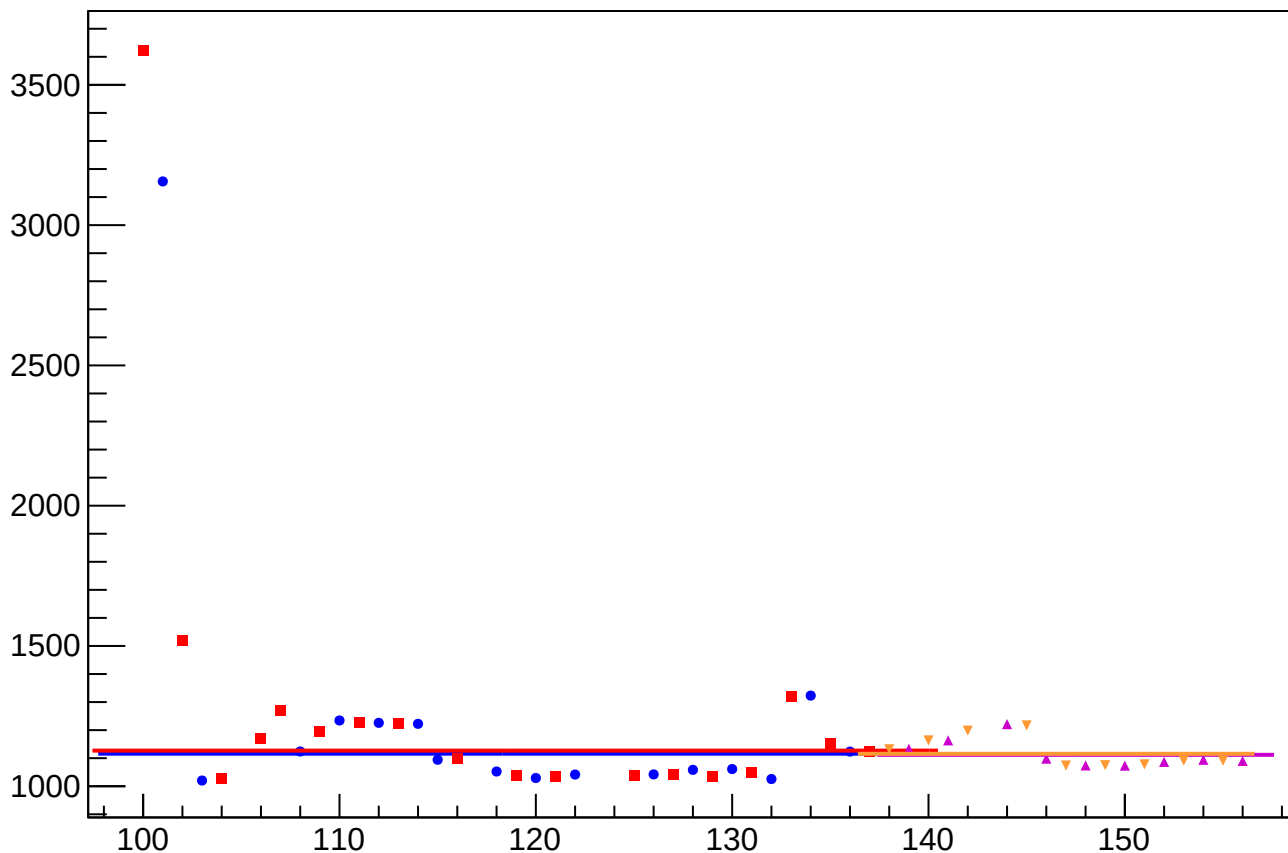
Right: 237.549 $\pm$ 300.872 χ^2 /NDF: 33.2/33

In: 245.787 $\pm$ 290.163 χ^2 /NDF:27.4/24

Out: -29.504 $\pm$ 299.528 χ^2 /NDF:22.2/26

All: 112.512 $\pm$ 208.408 χ^2 /NDF: 50.0/51

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089 $\pm$ 0.300 χ^2 /NDF: 623391.9/15

Left Out: 1115.573 $\pm$ 0.298 χ^2 /NDF: 27156.4/8

Right Out: 1126.960 $\pm$ 0.301 χ^2 /NDF: 222740.2/17

Left In: 1111.933 $\pm$ 0.281 χ^2 /NDF: 25265.6/8

Left: 1113.649 $\pm$ 0.204 χ^2 /NDF: 52501.1/17

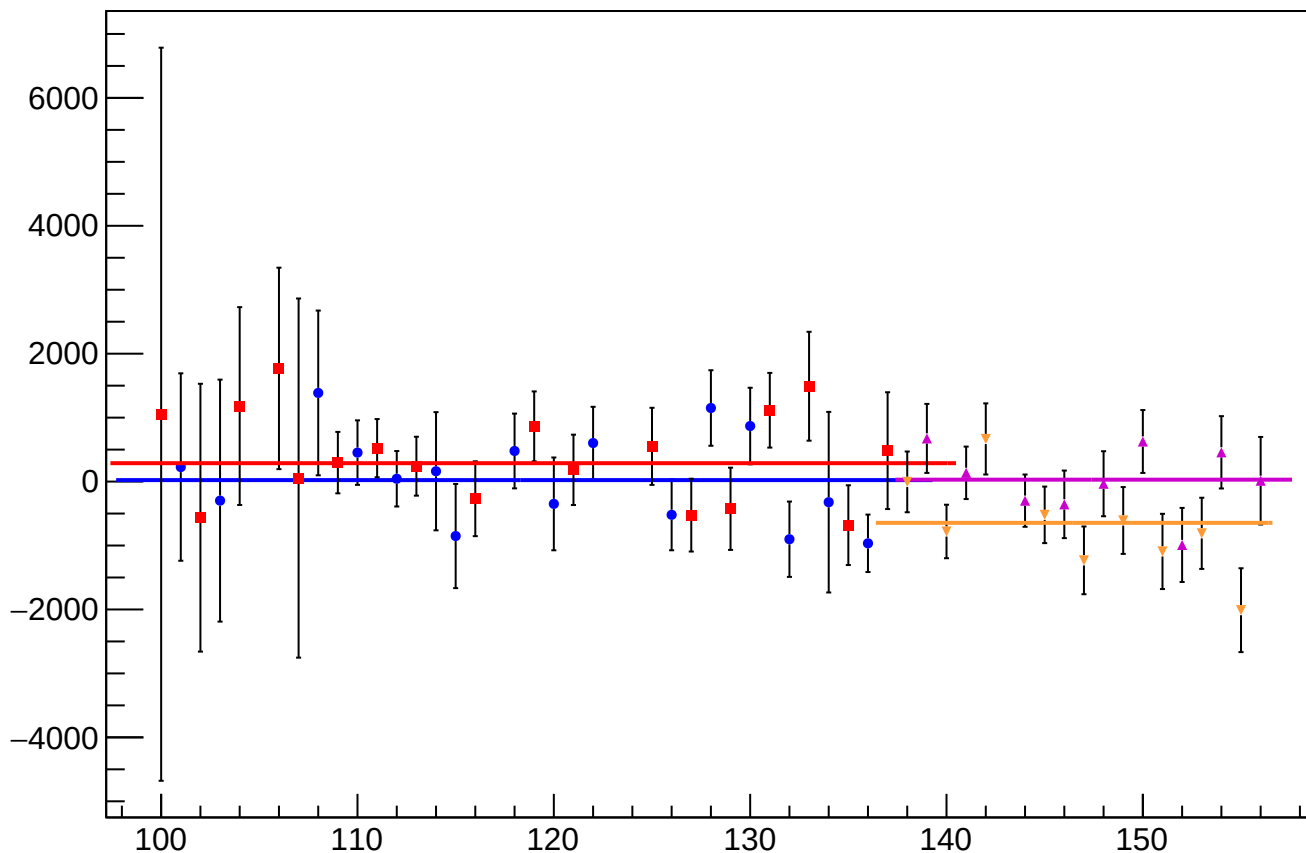
Right: 1121.503 $\pm$ 0.213 χ^2 /NDF: 846784.8/33

In: 1113.873 $\pm$ 0.205 χ^2 /NDF: 648759.6/24

Out: 1121.194 $\pm$ 0.212 χ^2 /NDF: 250619.0/26

All: 1117.417 $\pm$ 0.147 χ^2 /NDF: 899994.9/51

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: -645.460+/-171.085 χ^2/NDF :13.8/8

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: 29.579+/-168.566 χ^2/NDF :7.8/8

Left: -302.932+/-120.075 χ^2/NDF : 29.5/17

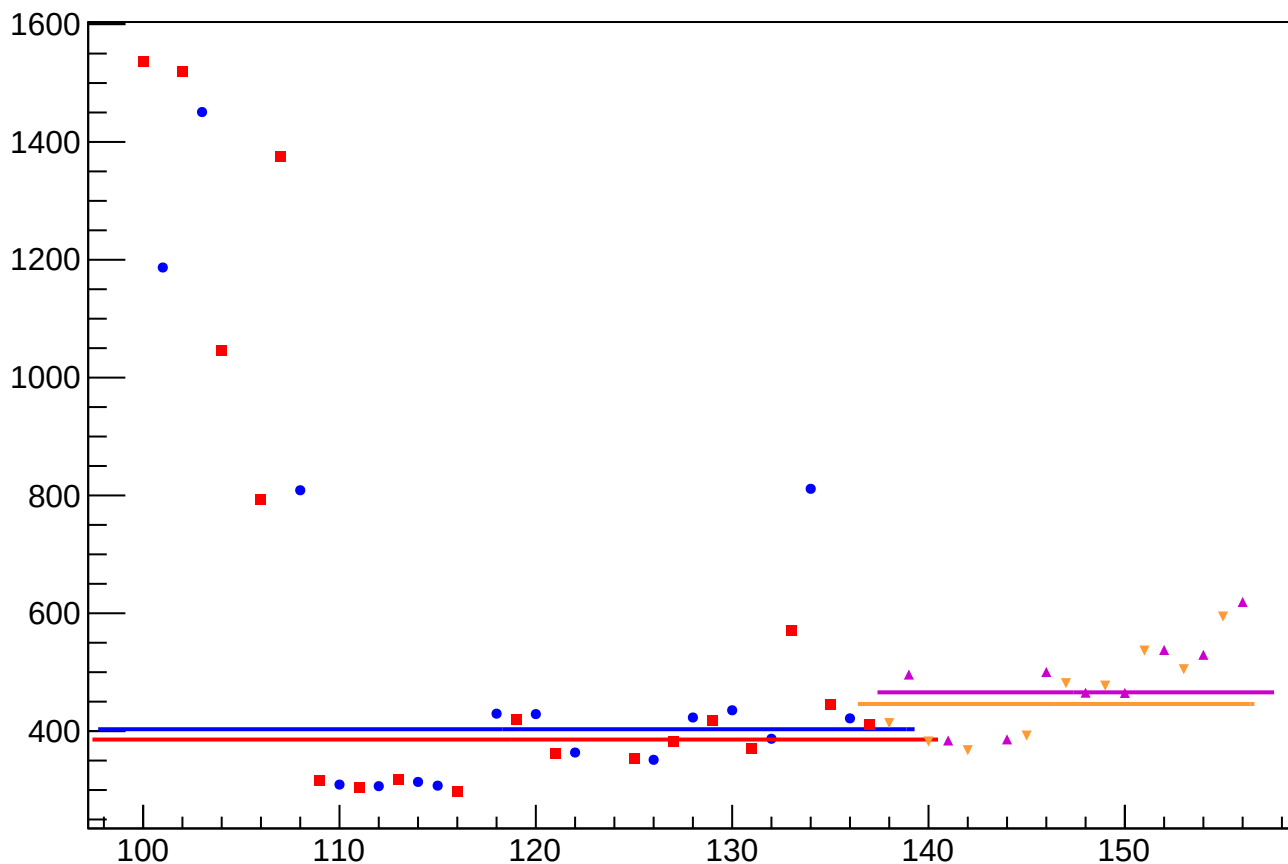
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: 26.103+/-116.517 χ^2/NDF :26.8/24

Out: -136.609+/-115.359 χ^2/NDF :43.7/26

All: -56.065+/-81.978 χ^2/NDF : 71.5/51

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: 446.046+/-0.121 χ^2/NDF :313173.8/8

Right Out: 385.682+/-0.110 χ^2/NDF : 1747152.2/17

Left In: 465.789+/-0.119 χ^2/NDF :327166.8/8

Left: 456.064+/-0.085 χ^2/NDF : 653856.1/17

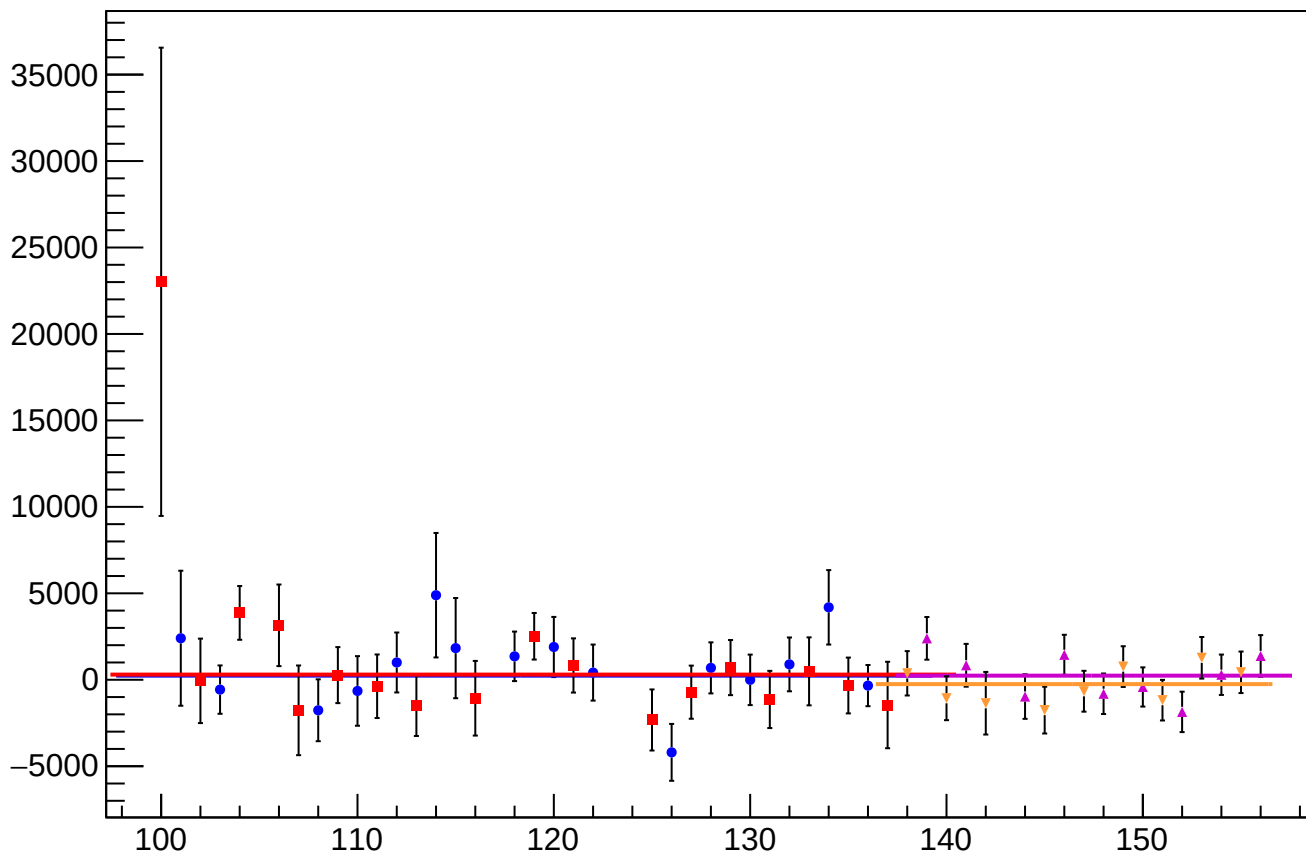
Right: 394.155+/-0.079 χ^2/NDF : 3571416.8/33

In: 433.096+/-0.082 χ^2/NDF :2283351.2/24

Out: 413.126+/-0.082 χ^2/NDF :2196105.8/26

All: 423.011+/-0.058 χ^2/NDF : 4509123.7/51

dit_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 240.827 $\pm$ 426.592 χ^2 /NDF: 17.0/15

Left Out: -250.991 $\pm$ 421.422 χ^2 /NDF:5.7/8

Right Out: 298.921 $\pm$ 430.767 χ^2 /NDF: 18.7/17

Left In: 237.996 $\pm$ 397.837 χ^2 /NDF:10.5/8

Left: 7.569 $\pm$ 289.292 χ^2 /NDF: 16.9/17

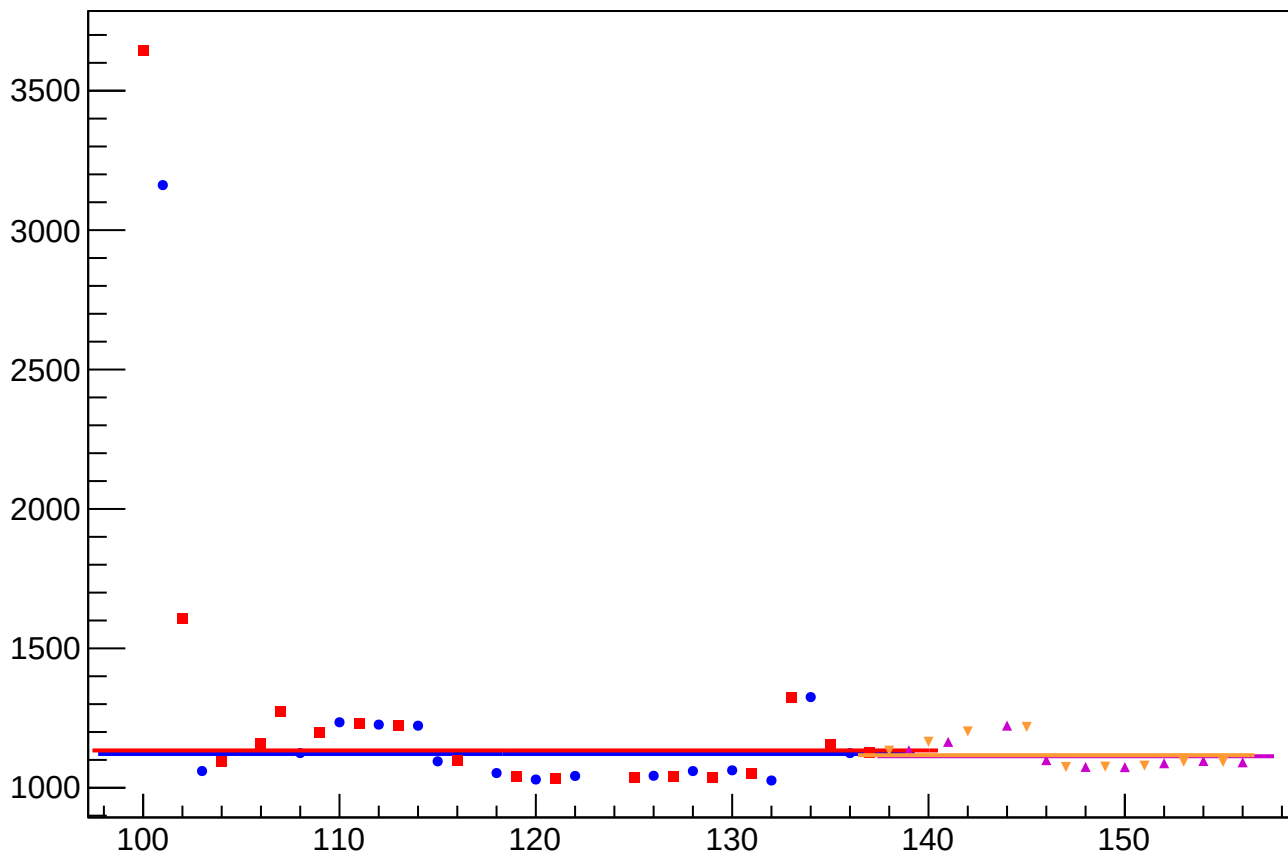
Right: 269.591 $\pm$ 303.111 χ^2 /NDF: 35.6/33

In: 239.313 $\pm$ 290.948 χ^2 /NDF:27.5/24

Out: 17.936 $\pm$ 301.240 χ^2 /NDF:25.2/26

All: 132.471 $\pm$ 209.275 χ^2 /NDF: 52.9/51

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: 1116.922+/-0.298 χ^2/NDF : 27499.6/8

Right Out: 1133.929+/-0.305 χ^2/NDF : 227457.1/17

Left In: 1113.138+/-0.281 χ^2/NDF : 25356.1/8

Left: 1114.921+/-0.205 χ^2/NDF : 52940.9/17

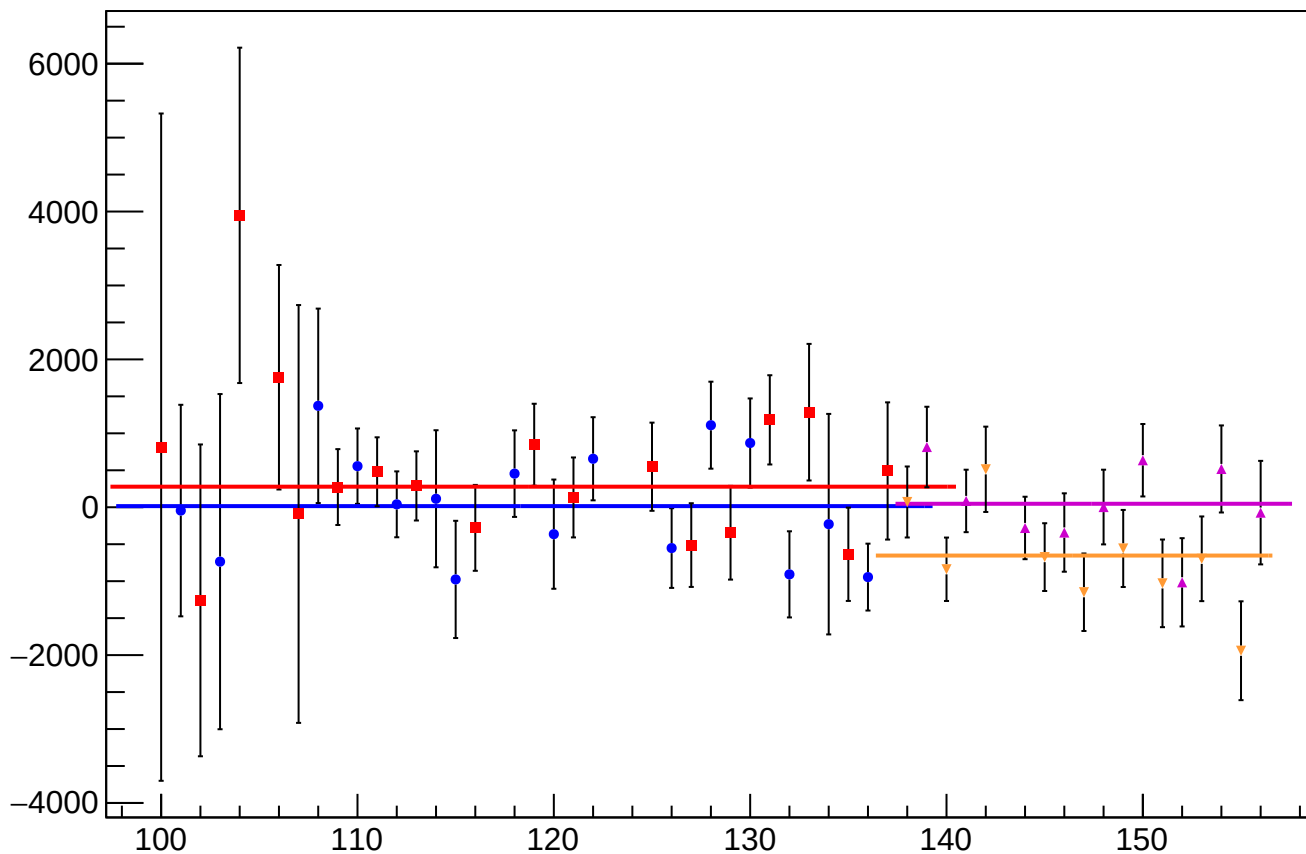
Right: 1127.550+/-0.214 χ^2/NDF : 845354.2/33

In: 1116.932+/-0.206 χ^2/NDF : 642775.5/24

Out: 1125.239+/-0.213 χ^2/NDF : 256549.6/26

All: 1120.941+/-0.148 χ^2/NDF : 900112.0/51

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: -653.416 ± 174.112 $\chi^2/\text{NDF}: 11.6/8$

Right Out: 278.251 ± 158.828 $\chi^2/\text{NDF}: 15.1/17$

Left In: 47.010 ± 171.631 $\chi^2/\text{NDF}: 8.4/8$

Left: -298.177 ± 122.229 $\chi^2/\text{NDF}: 28.2/17$

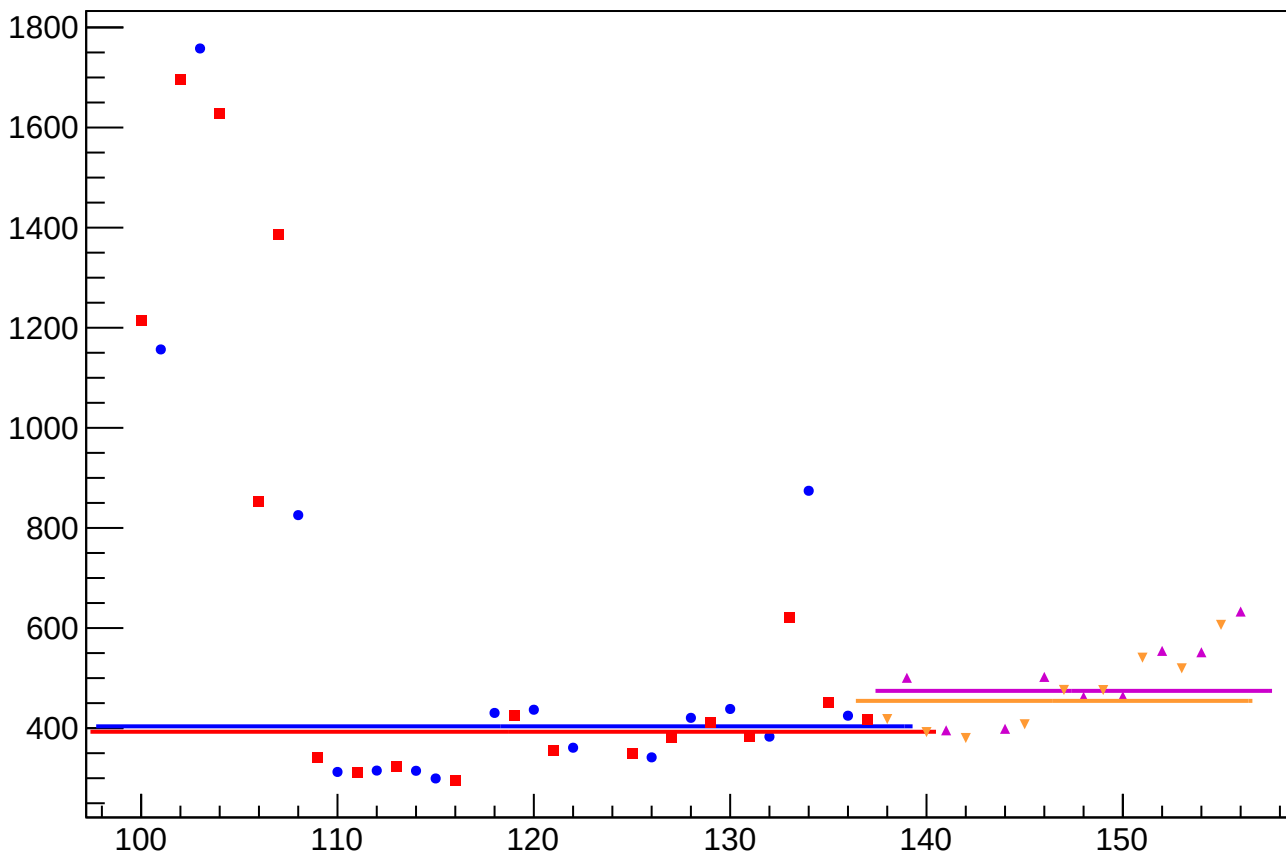
Right: 149.246 ± 113.360 $\chi^2/\text{NDF}: 36.0/33$

In: 30.221 ± 117.750 $\chi^2/\text{NDF}: 28.1/24$

Out: -144.901 ± 117.340 $\chi^2/\text{NDF}: 42.3/26$

All: -57.645 ± 83.116 $\chi^2/\text{NDF}: 71.5/51$

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: 454.516+/-0.123 χ^2/NDF : 285833.6/8

Right Out: 392.820+/-0.112 χ^2/NDF : 2203456.1/17

Left In: 474.513+/-0.121 χ^2/NDF : 318805.8/8

Left: 464.658+/-0.086 χ^2/NDF : 618019.5/17

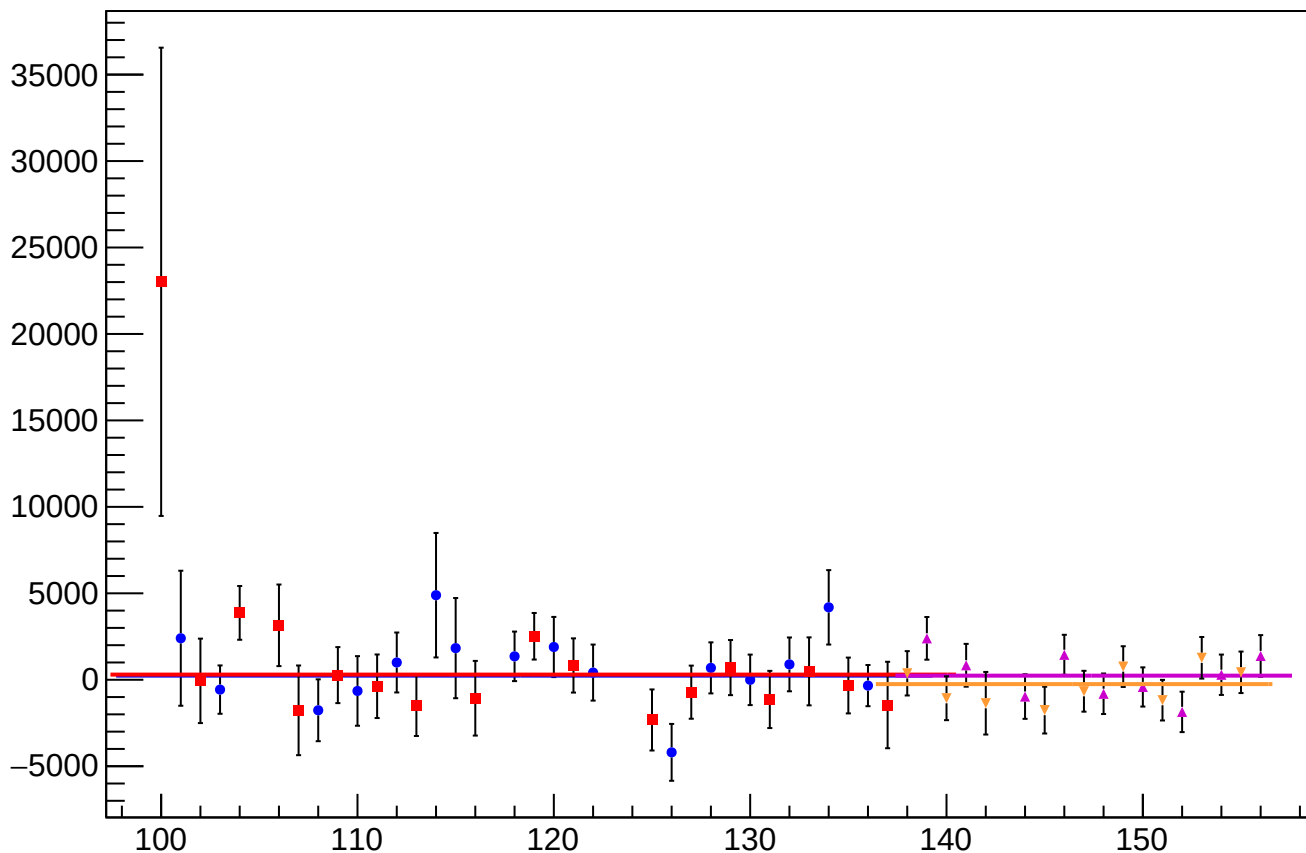
Right: 398.136+/-0.080 χ^2/NDF : 4137620.1/33

In: 437.007+/-0.083 χ^2/NDF : 2428841.8/24

Out: 420.842+/-0.083 χ^2/NDF : 2626355.2/26

All: 428.896+/-0.059 χ^2/NDF : 5074109.2/51

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: -250.999+/-421.423 χ^2/NDF : 5.7/8

Right Out: 298.922+/-430.767 χ^2/NDF : 18.7/17

Left In: 237.995+/-397.837 χ^2/NDF : 10.5/8

Left: 7.564+/-289.292 χ^2/NDF : 16.9/17

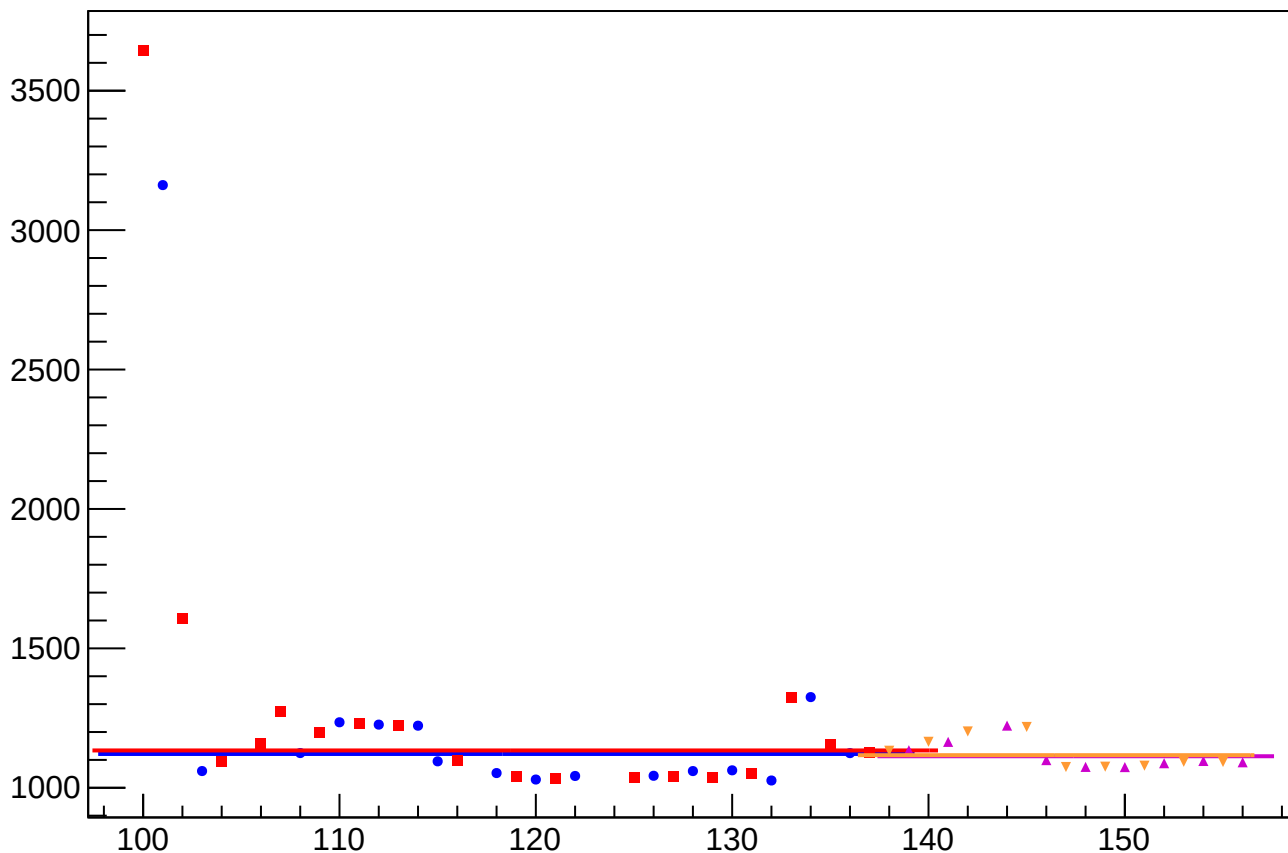
Right: 269.593+/-303.111 χ^2/NDF : 35.6/33

In: 239.313+/-290.948 χ^2/NDF : 27.5/24

Out: 17.932+/-301.240 χ^2/NDF : 25.2/26

All: 132.469+/-209.275 χ^2/NDF : 52.9/51

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: 1116.922+/-0.298 χ^2/NDF : 27499.6/8

Right Out: 1133.929+/-0.305 χ^2/NDF : 227457.1/17

Left In: 1113.138+/-0.281 χ^2/NDF : 25356.1/8

Left: 1114.921+/-0.205 χ^2/NDF : 52941.0/17

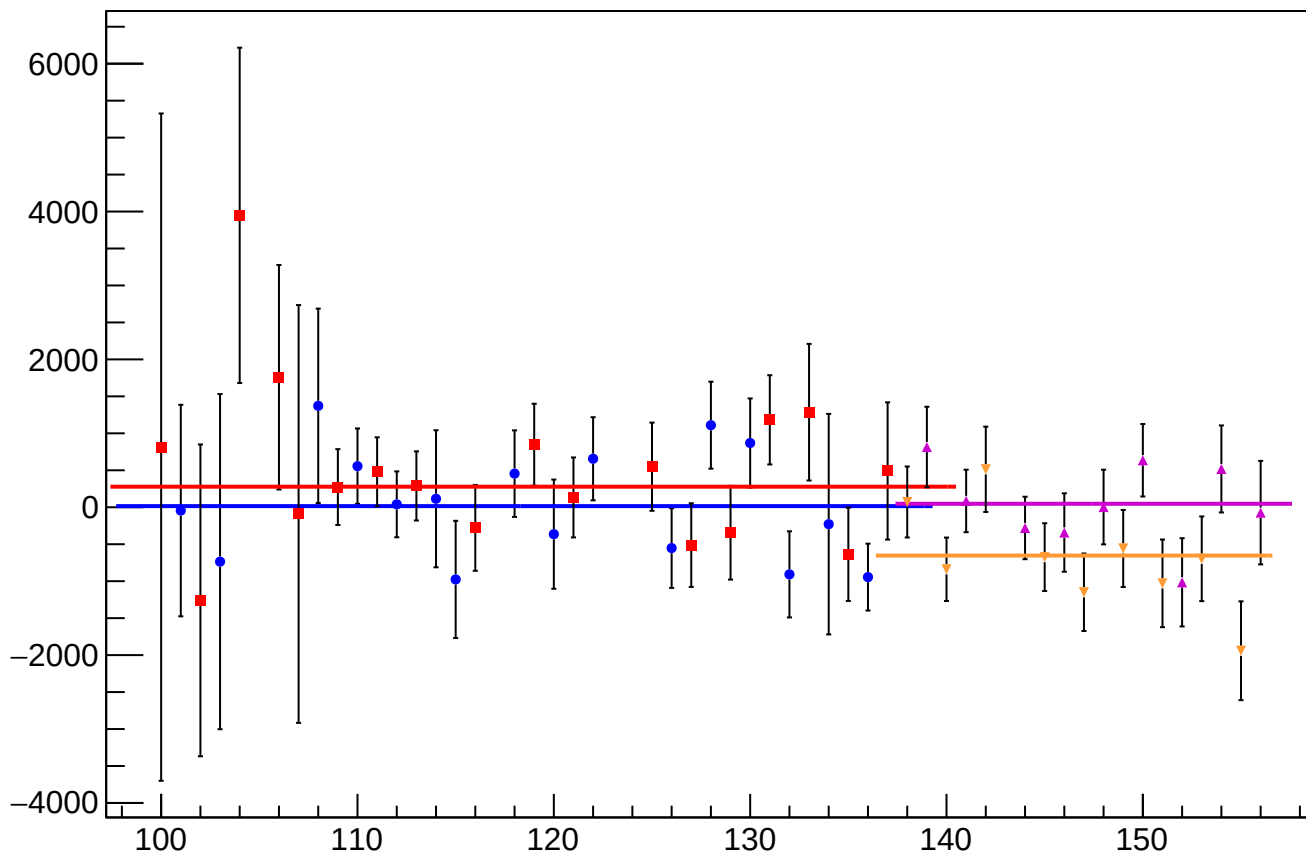
Right: 1127.550+/-0.214 χ^2/NDF : 845354.2/33

In: 1116.932+/-0.206 χ^2/NDF : 642775.5/24

Out: 1125.239+/-0.213 χ^2/NDF : 256549.7/26

All: 1120.941+/-0.148 χ^2/NDF : 900112.2/51

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 15.288+/-161.844 χ^2/NDF : 19.6/15

Left Out: -653.423+/-174.113 χ^2/NDF : 11.6/8

Right Out: 278.249+/-158.826 χ^2/NDF : 15.1/17

Left In: 47.014+/-171.632 χ^2/NDF : 8.4/8

Left: -298.180+/-122.230 χ^2/NDF : 28.2/17

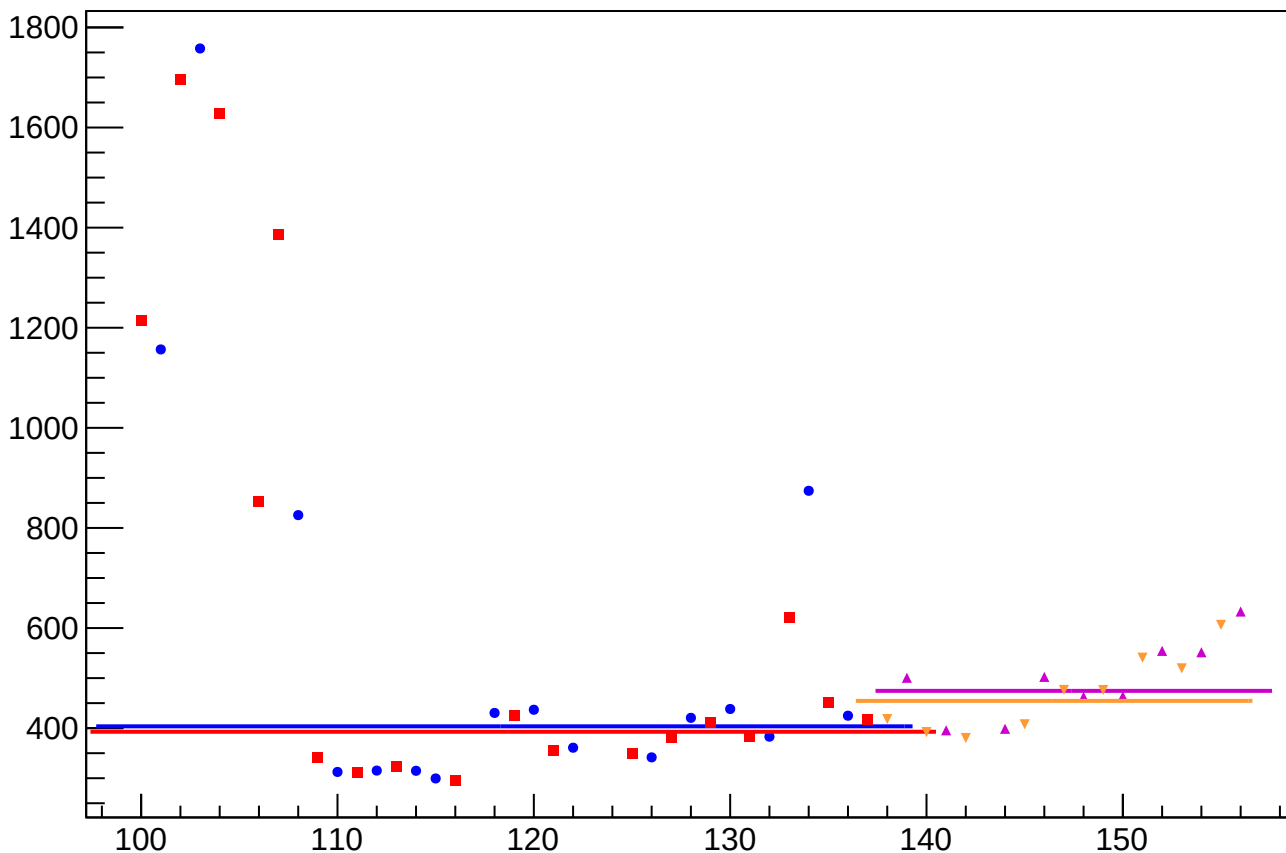
Right: 149.243+/-113.359 χ^2/NDF : 36.0/33

In: 30.220+/-117.749 χ^2/NDF : 28.1/24

Out: -144.901+/-117.340 χ^2/NDF : 42.3/26

All: -57.645+/-83.116 χ^2/NDF : 71.5/51

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: 454.517+/-0.123 χ^2/NDF :285848.1/8

Right Out: 392.817+/-0.112 χ^2/NDF : 2203462.7/17

Left In: 474.516+/-0.121 χ^2/NDF :318818.1/8

Left: 464.660+/-0.086 χ^2/NDF : 618048.5/17

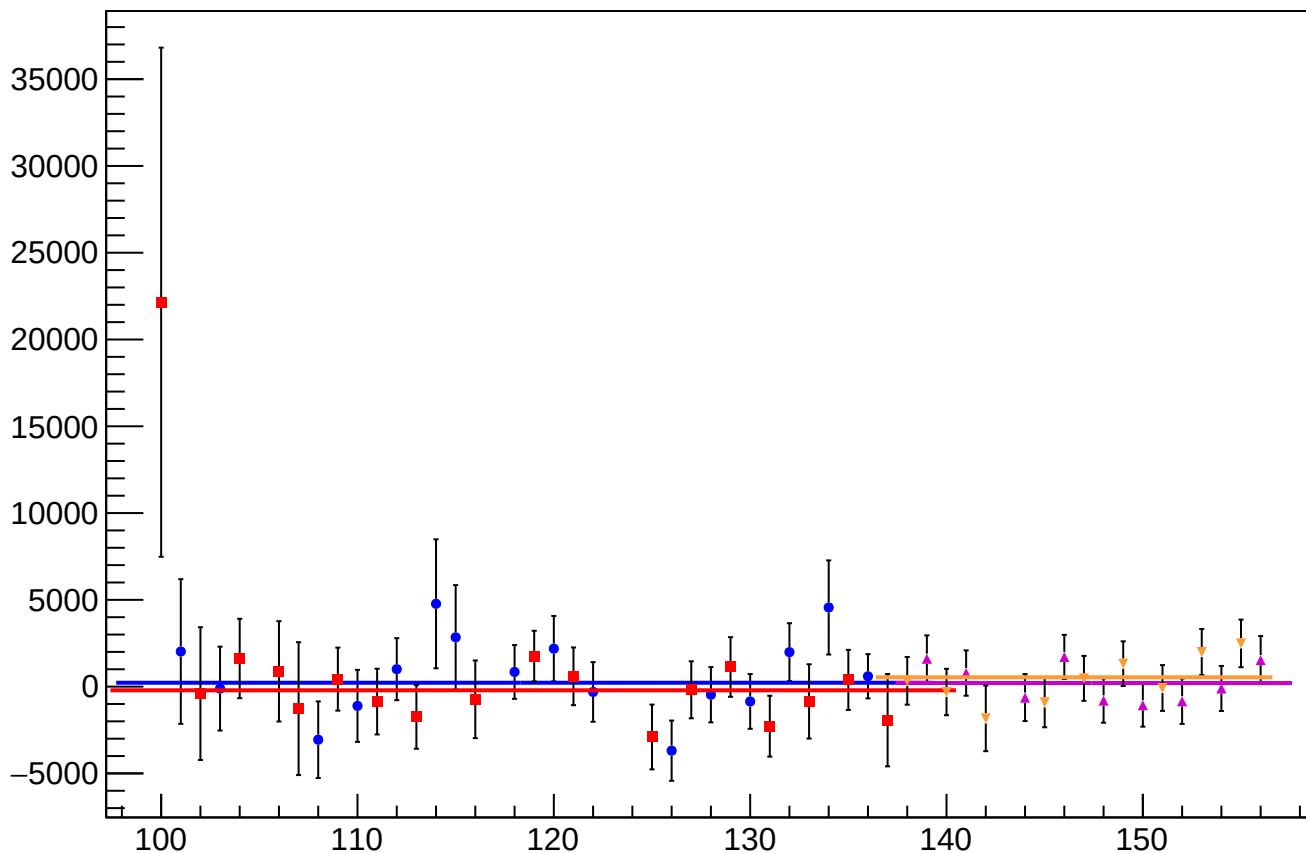
Right: 398.133+/-0.080 χ^2/NDF : 4137623.7/33

In: 437.006+/-0.083 χ^2/NDF :2428879.4/24

Out: 420.840+/-0.083 χ^2/NDF :2626394.6/26

All: 428.895+/-0.059 χ^2/NDF : 5074188.2/51

asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 224.817 $\pm$ 474.559 χ^2 /NDF: 16.1/15

Left Out: 539.220 $\pm$ 459.761 χ^2 /NDF:6.8/8

Right Out: -209.751 $\pm$ 477.820 χ^2 /NDF: 11.0/17

Left In: 209.270 $\pm$ 435.680 χ^2 /NDF:6.4/8

Left: 365.378 $\pm$ 316.243 χ^2 /NDF: 13.5/17

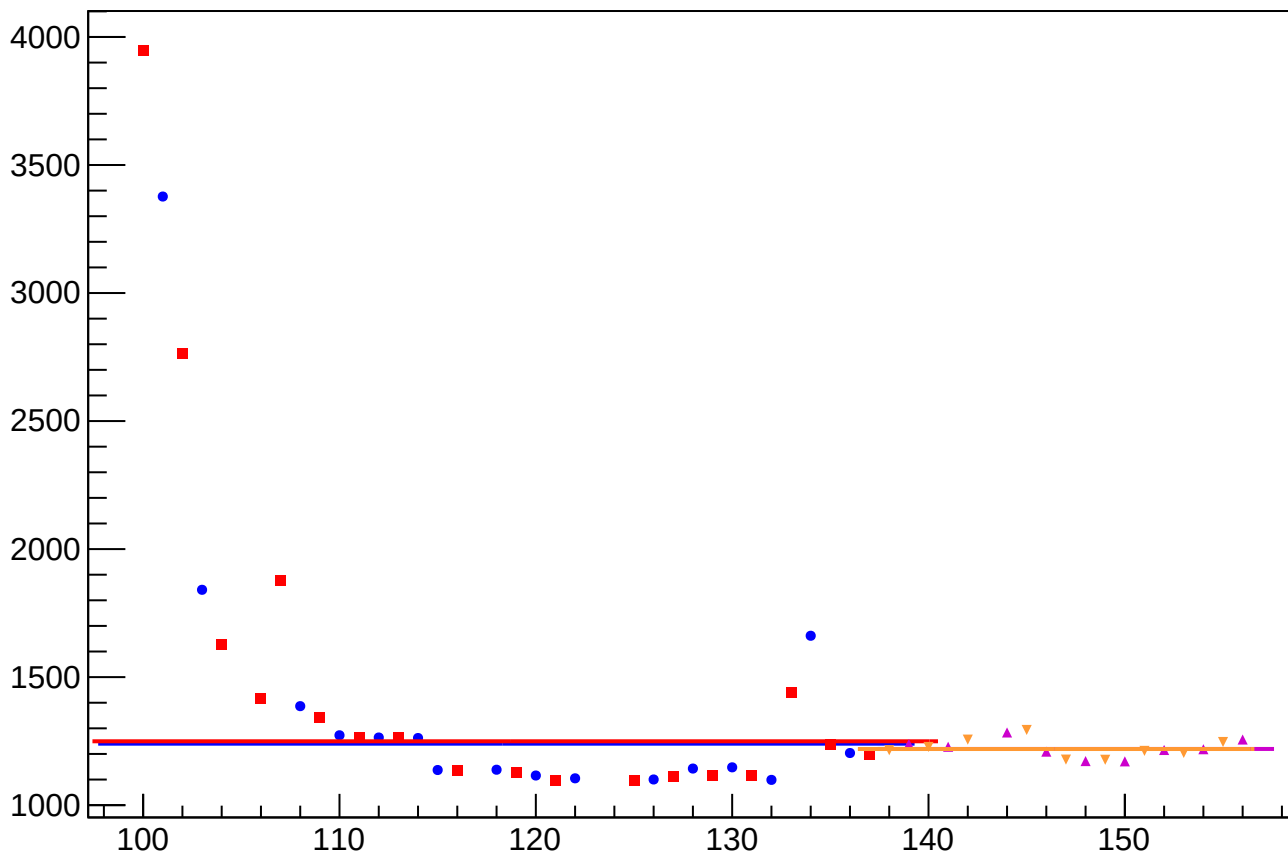
Right: 9.021 $\pm$ 336.711 χ^2 /NDF: 27.5/33

In: 216.381 $\pm$ 320.938 χ^2 /NDF:22.5/24

Out: 179.155 $\pm$ 331.301 χ^2 /NDF:19.1/26

All: 198.359 $\pm$ 230.514 χ^2 /NDF: 41.6/51

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: 1219.244+/-0.325 χ^2/NDF : 11514.9/8

Right Out: 1249.410+/-0.338 χ^2/NDF : 606099.2/17

Left In: 1219.479+/-0.308 χ^2/NDF : 12408.1/8

Left: 1219.368+/-0.224 χ^2/NDF : 23923.3/17

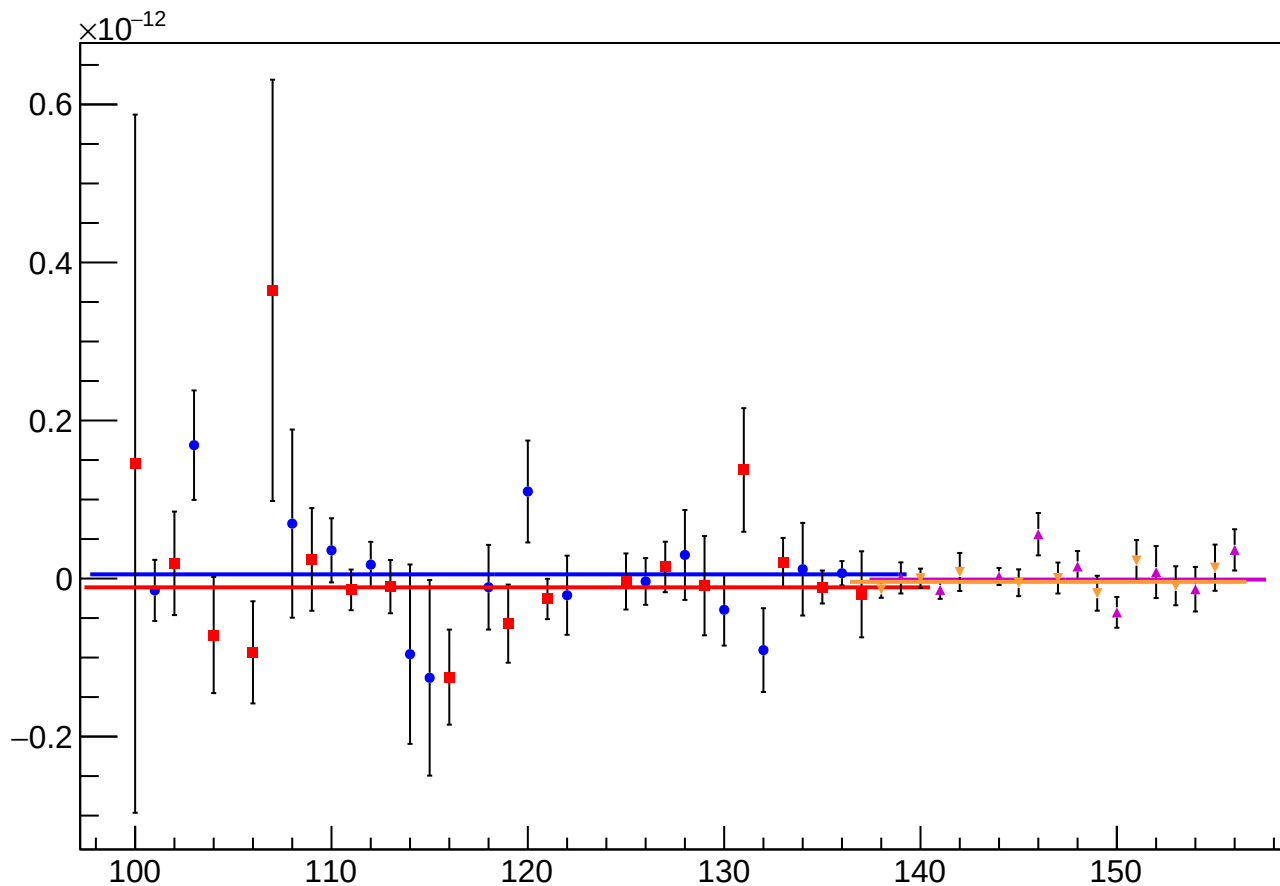
Right: 1244.743+/-0.238 χ^2/NDF : 1389157.9/33

In: 1228.929+/-0.227 χ^2/NDF : 797144.9/24

Out: 1233.746+/-0.234 χ^2/NDF : 621753.4/26

All: 1231.261+/-0.163 χ^2/NDF : 1419116.5/51

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 : 3.2/8

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 13.7/8

Left: -0.000+/-0.000 χ^2/NDF : 17.0/17

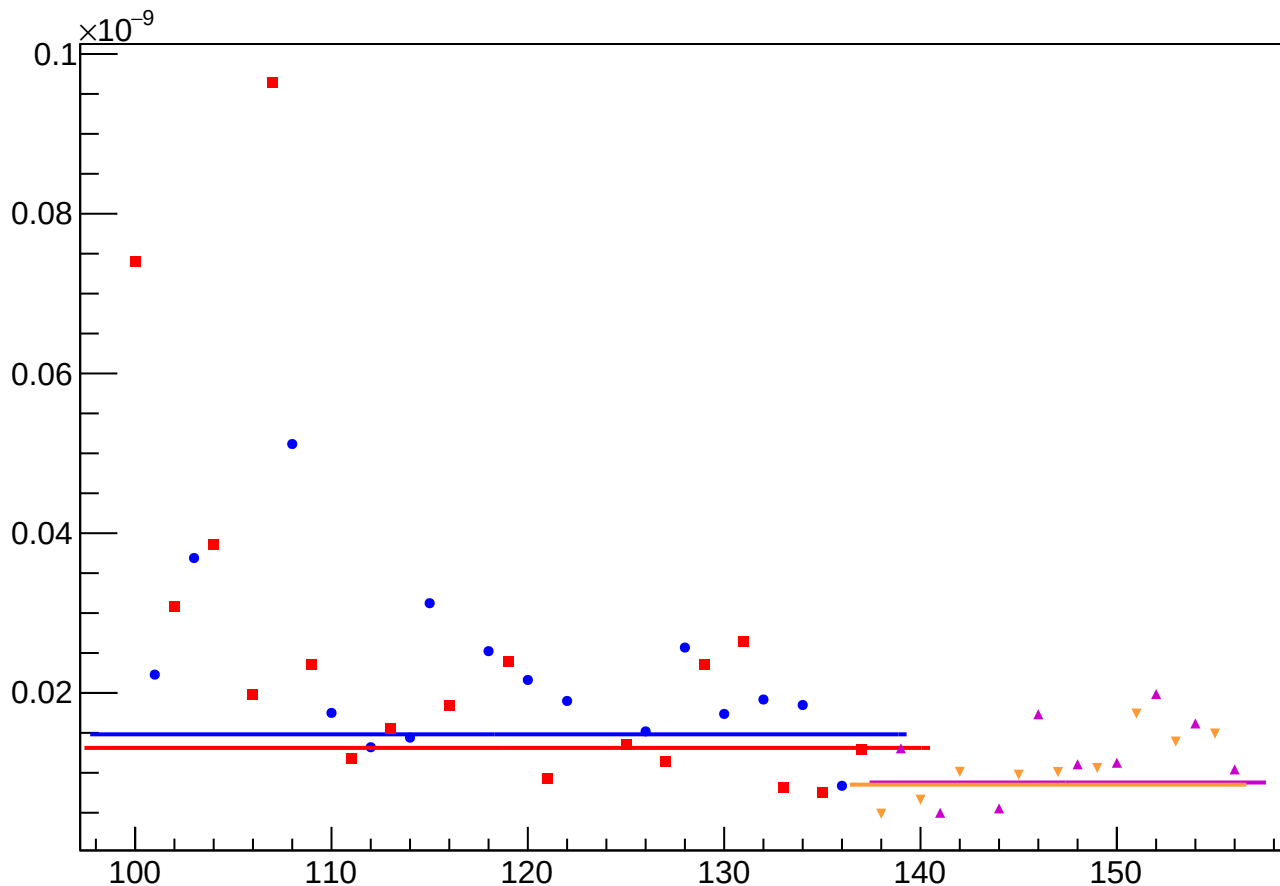
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: 0.000+/-0.000 χ^2/NDF : 30.4/24

Out: -0.000+/-0.000 χ^2/NDF : 18.6/26

All: -0.000+/-0.000 χ^2/NDF : 49.9/51

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 : 758492.6/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1181949.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 1134438.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1895000.0/17

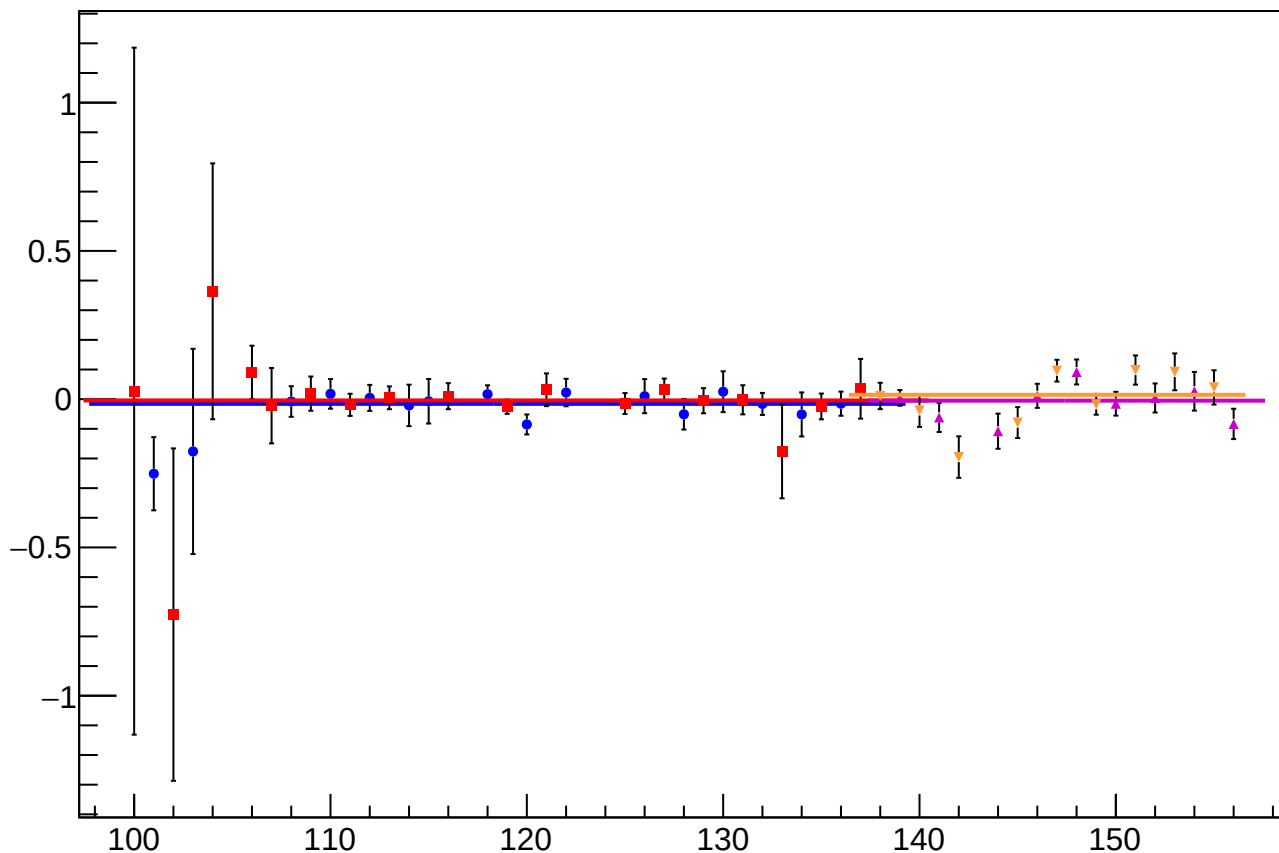
Right: 0.000+/-0.000 χ^2/NDF : 2295265.5/33

In: 0.000+/-0.000 χ^2/NDF : 2788125.1/24

Out: 0.000+/-0.000 χ^2/NDF : 2289126.2/26

All: 0.000+/-0.000 χ^2/NDF : 5092282.4/51

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: 0.015 ± 0.016 χ^2/NDF : 23.5/8

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.005 ± 0.014 χ^2/NDF : 12.6/8

Left: 0.004 ± 0.011 χ^2/NDF : 36.9/17

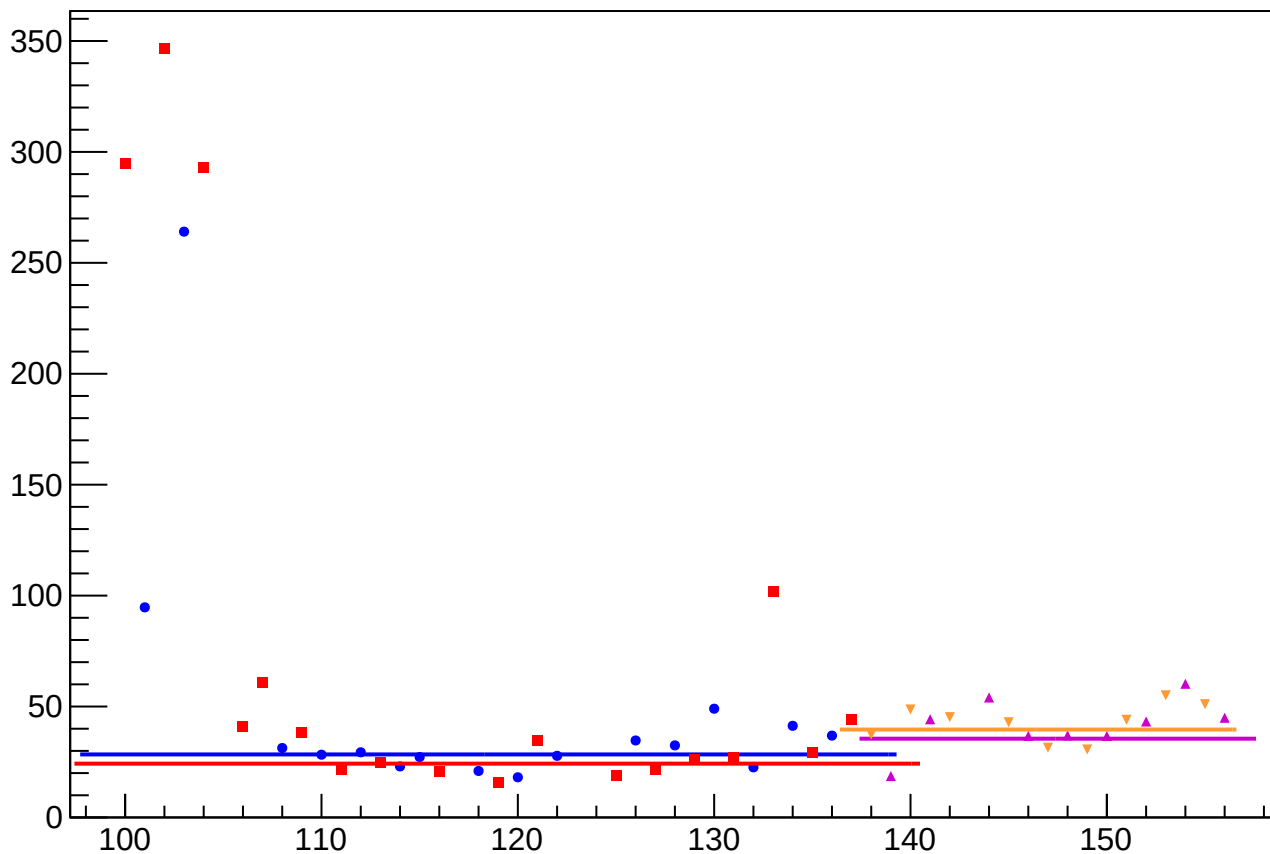
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.011 ± 0.009 χ^2/NDF : 24.8/24

Out: 0.002 ± 0.009 χ^2/NDF : 32.3/26

All: -0.004 ± 0.007 χ^2/NDF : 58.1/51

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: 39.626+/-0.011 χ^2/NDF : 526334.4/8

Right Out: 24.255+/-0.008 χ^2/NDF : 2913469.3/17

Left In: 35.505+/-0.010 χ^2/NDF : 1480657.8/8

Left: 37.326+/-0.008 χ^2/NDF : 2081354.8/17

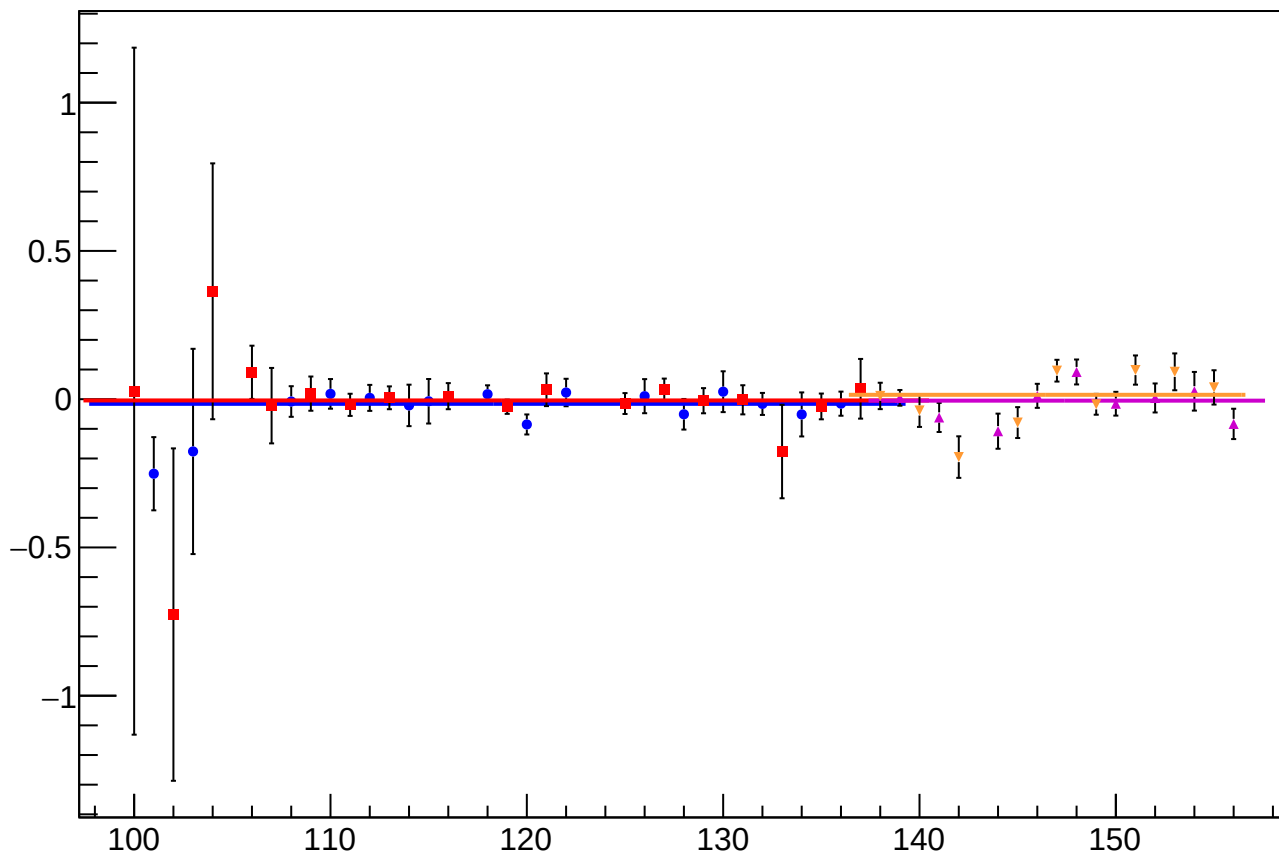
Right: 26.181+/-0.006 χ^2/NDF : 5281459.7/33

In: 31.453+/-0.007 χ^2/NDF : 4011251.3/24

Out: 29.469+/-0.007 χ^2/NDF : 4664950.0/26

All: 30.461+/-0.005 χ^2/NDF : 8721696.9/51

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: 0.015 ± 0.016 χ^2/NDF : 23.5/8

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.005 ± 0.014 χ^2/NDF : 12.6/8

Left: 0.004 ± 0.011 χ^2/NDF : 36.9/17

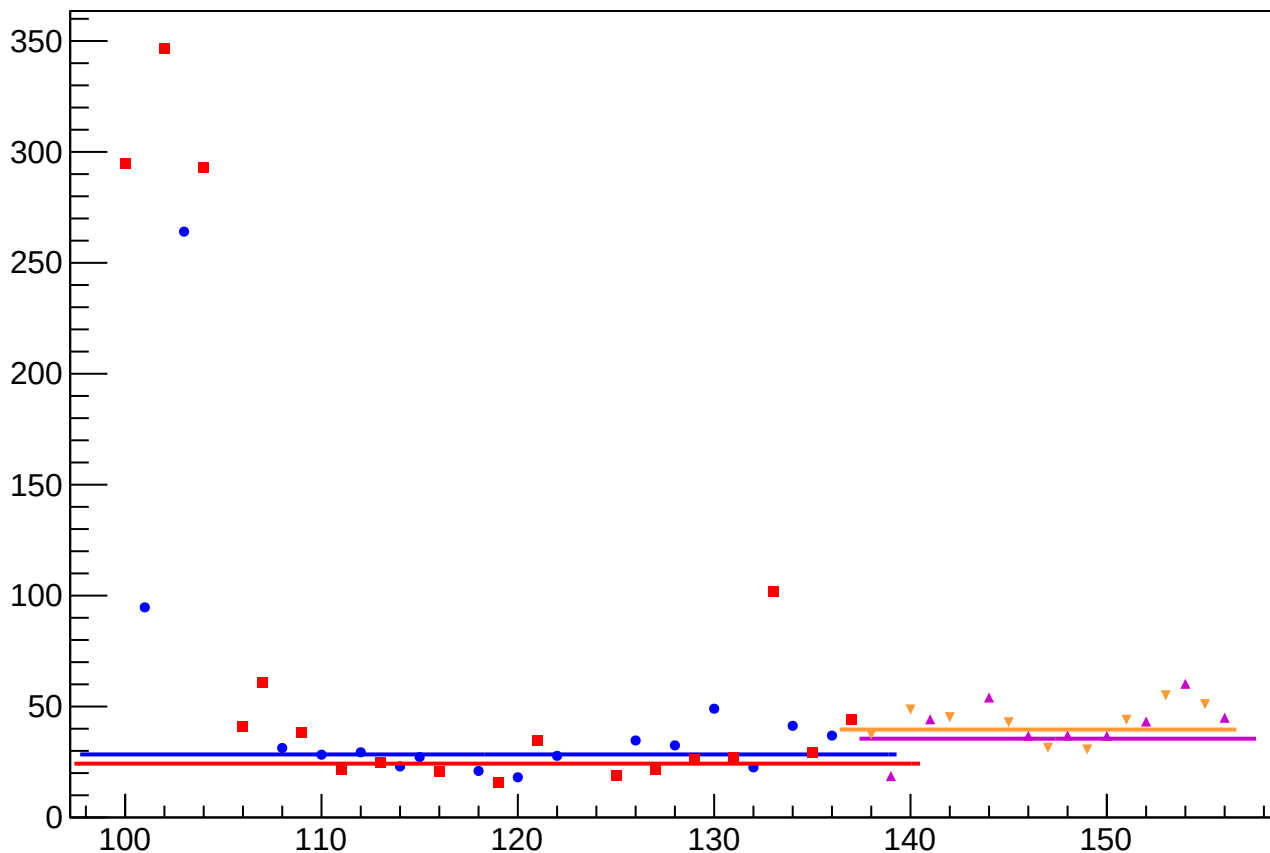
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.011 ± 0.009 χ^2/NDF : 24.8/24

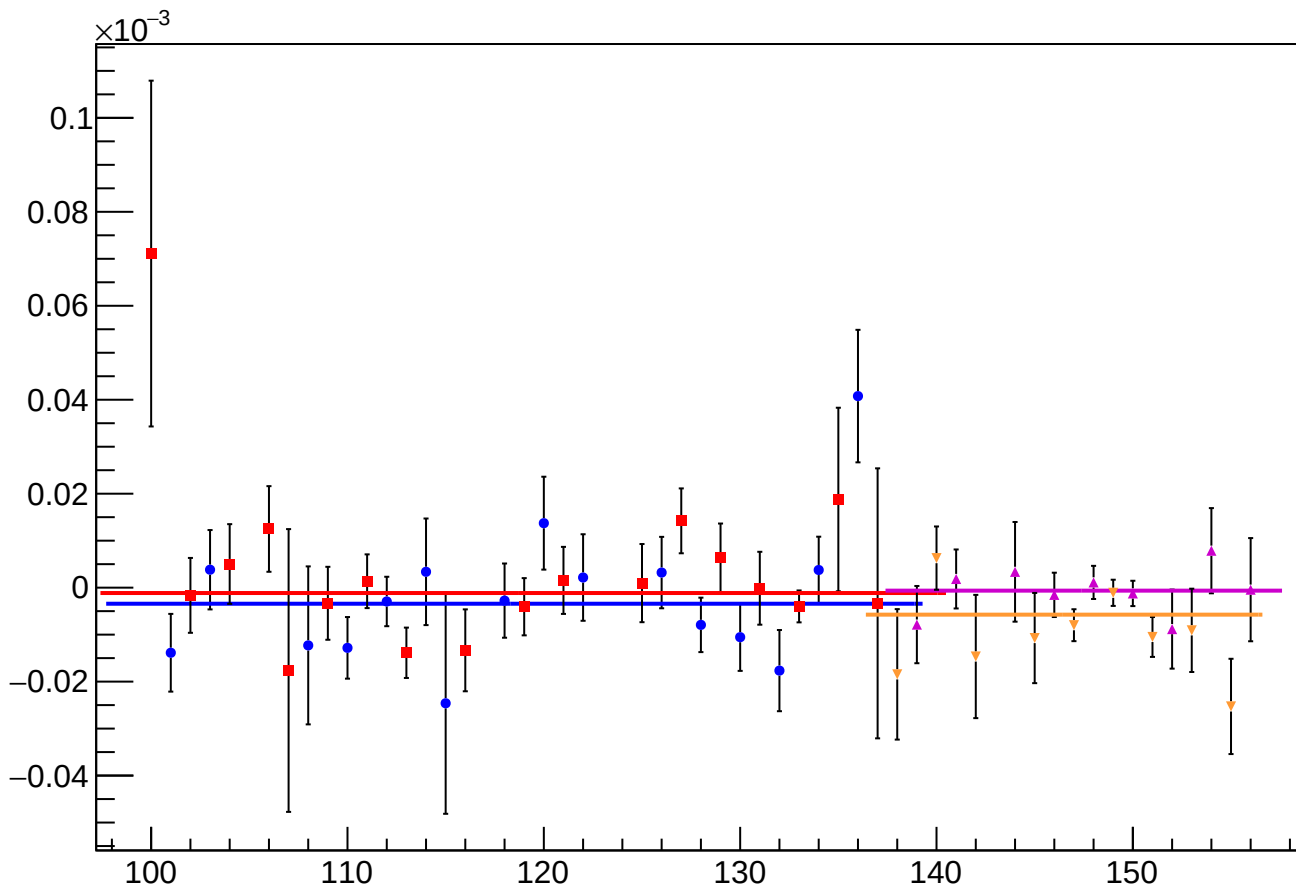
Out: 0.002 ± 0.009 χ^2/NDF : 32.3/26

All: -0.004 ± 0.007 χ^2/NDF : 58.1/51

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



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 : 13.1/8

Right Out: -0.000+/-0.000 χ^2/NDF : 23.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 3.2/8

Left: -0.000+/-0.000 χ^2/NDF : 20.8/17

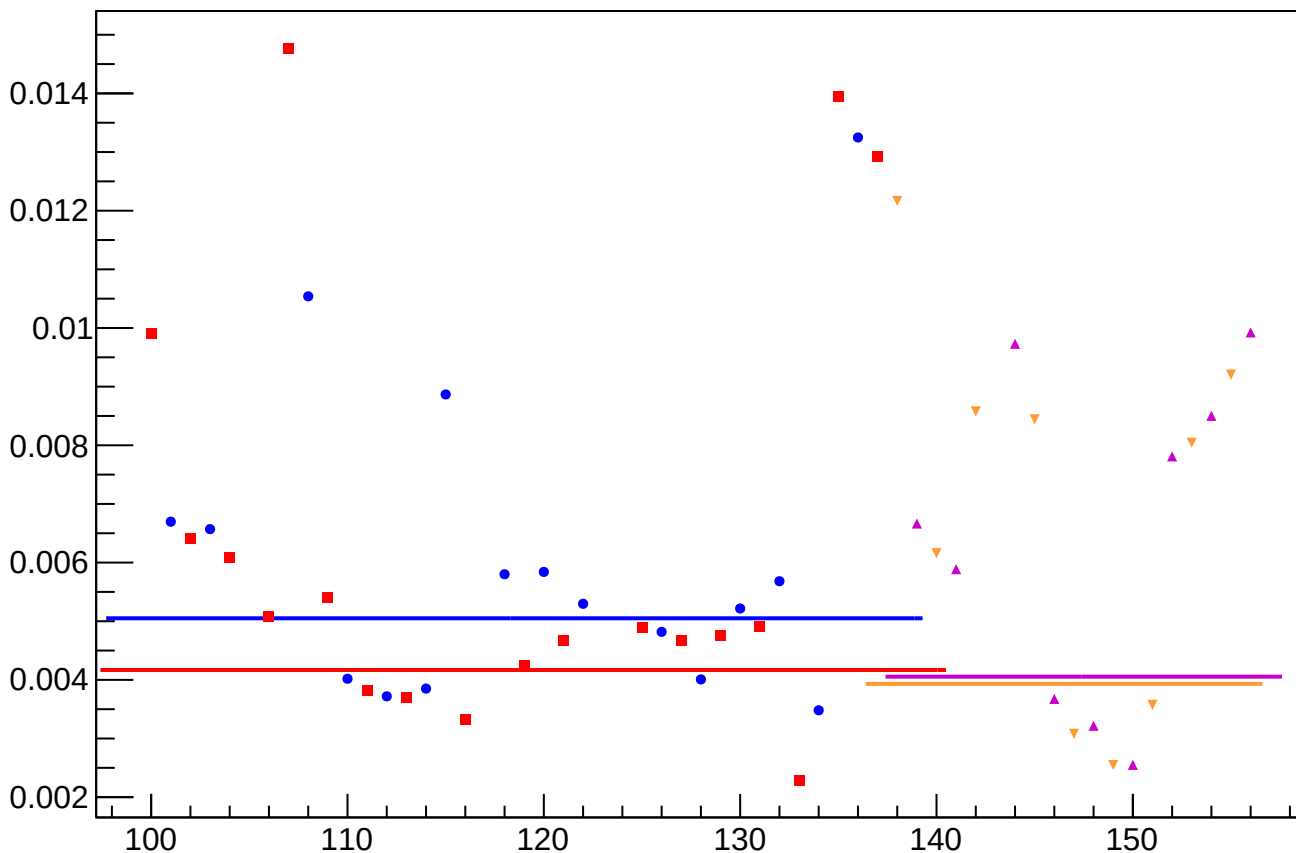
Right: -0.000+/-0.000 χ^2/NDF : 48.9/33

In: -0.000+/-0.000 χ^2/NDF : 29.5/24

Out: -0.000+/-0.000 χ^2/NDF : 39.7/26

All: -0.000+/-0.000 χ^2/NDF : 70.0/51

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: 0.004+/-0.000 χ^2/NDF : 3217565.2/8

Right Out: 0.004+/-0.000 χ^2/NDF : 2041975.6/17

Left In: 0.004+/-0.000 χ^2/NDF : 3143625.5/8

Left: 0.004+/-0.000 χ^2/NDF : 6366400.0/17

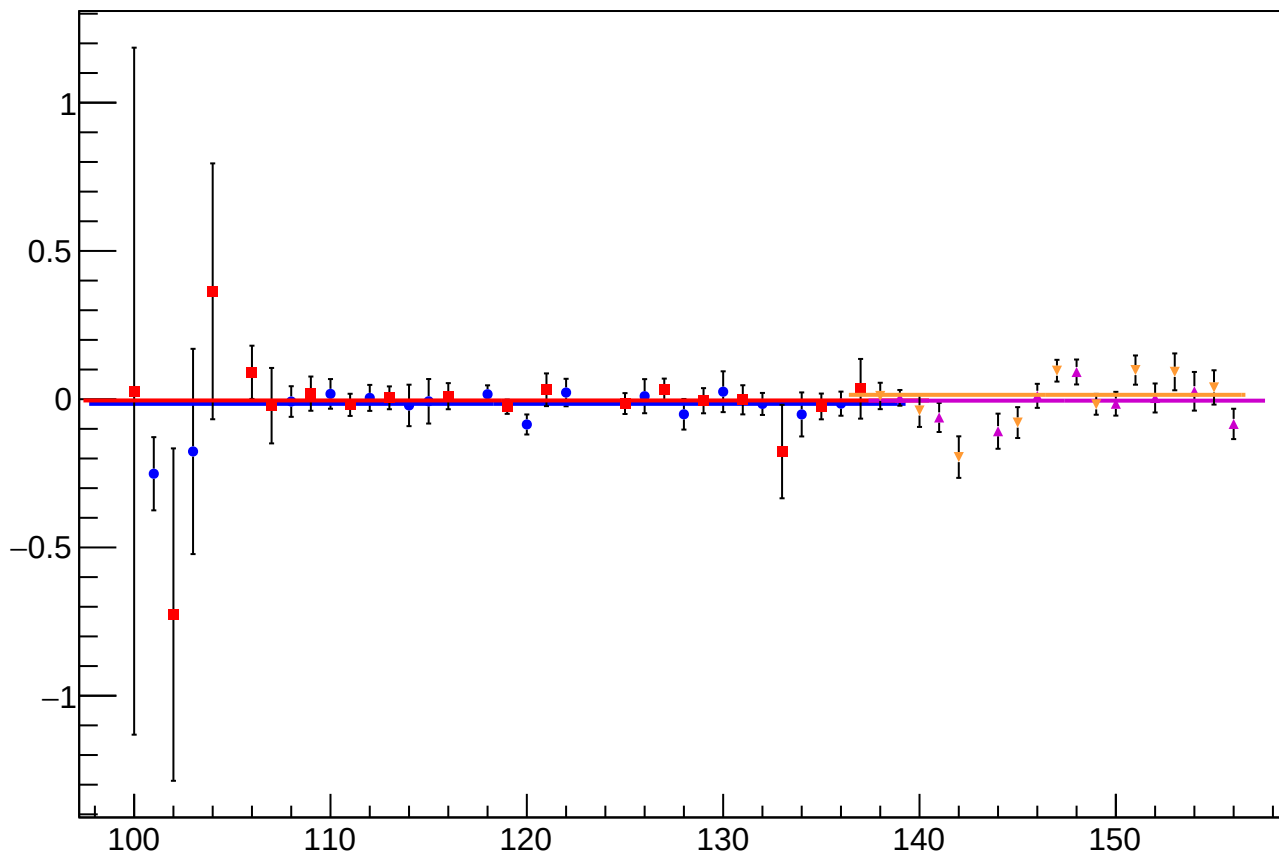
Right: 0.005+/-0.000 χ^2/NDF : 3758667.6/33

In: 0.004+/-0.000 χ^2/NDF : 4921678.7/24

Out: 0.004+/-0.000 χ^2/NDF : 5278829.9/26

All: 0.004+/-0.000 χ^2/NDF : 10309288.3/51

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: 0.015 ± 0.016 χ^2/NDF : 23.5/8

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.005 ± 0.014 χ^2/NDF : 12.6/8

Left: 0.004 ± 0.011 χ^2/NDF : 36.9/17

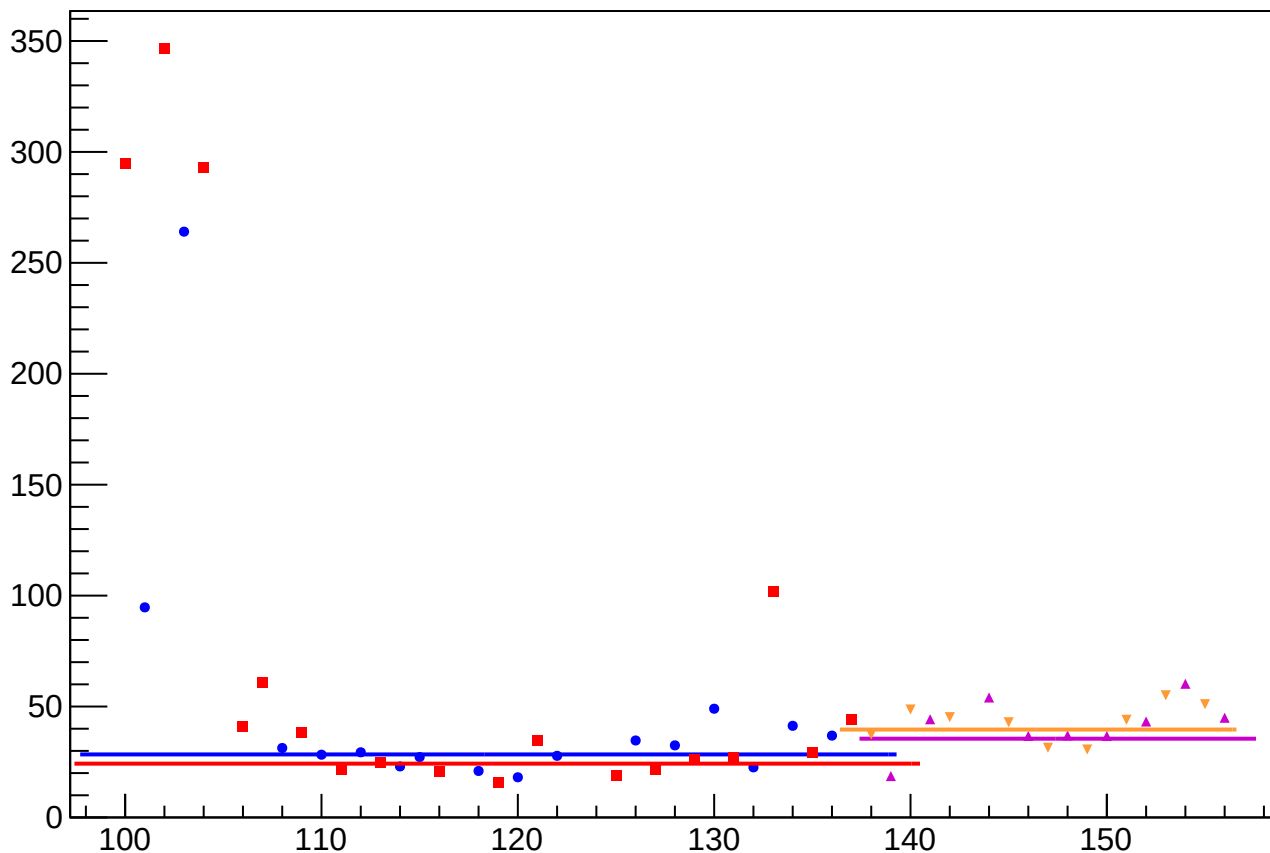
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.011 ± 0.009 χ^2/NDF : 24.8/24

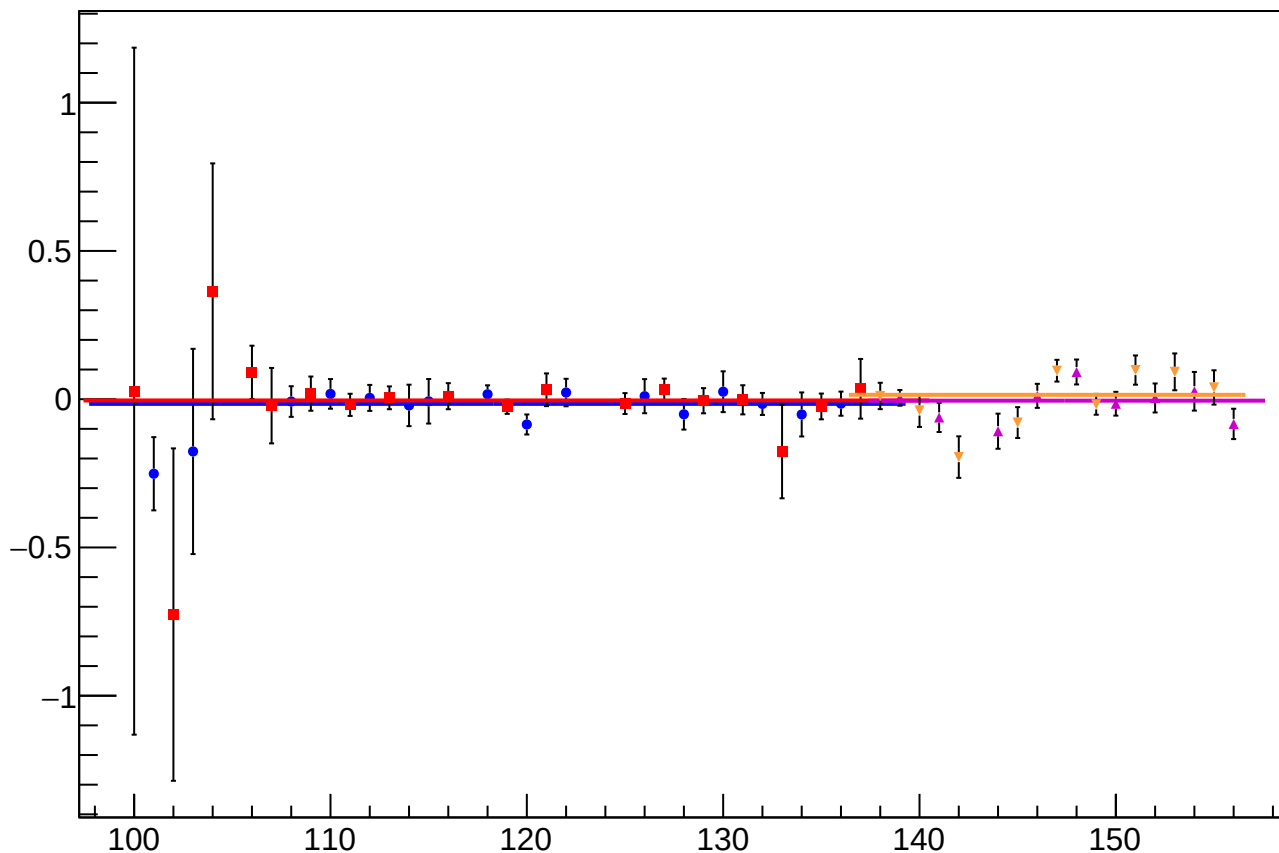
Out: 0.002 ± 0.009 χ^2/NDF : 32.3/26

All: -0.004 ± 0.007 χ^2/NDF : 58.1/51

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.015 ± 0.016 χ^2/NDF : 23.5/8

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.005 ± 0.014 χ^2/NDF : 12.6/8

Left: 0.004 ± 0.011 χ^2/NDF : 36.9/17

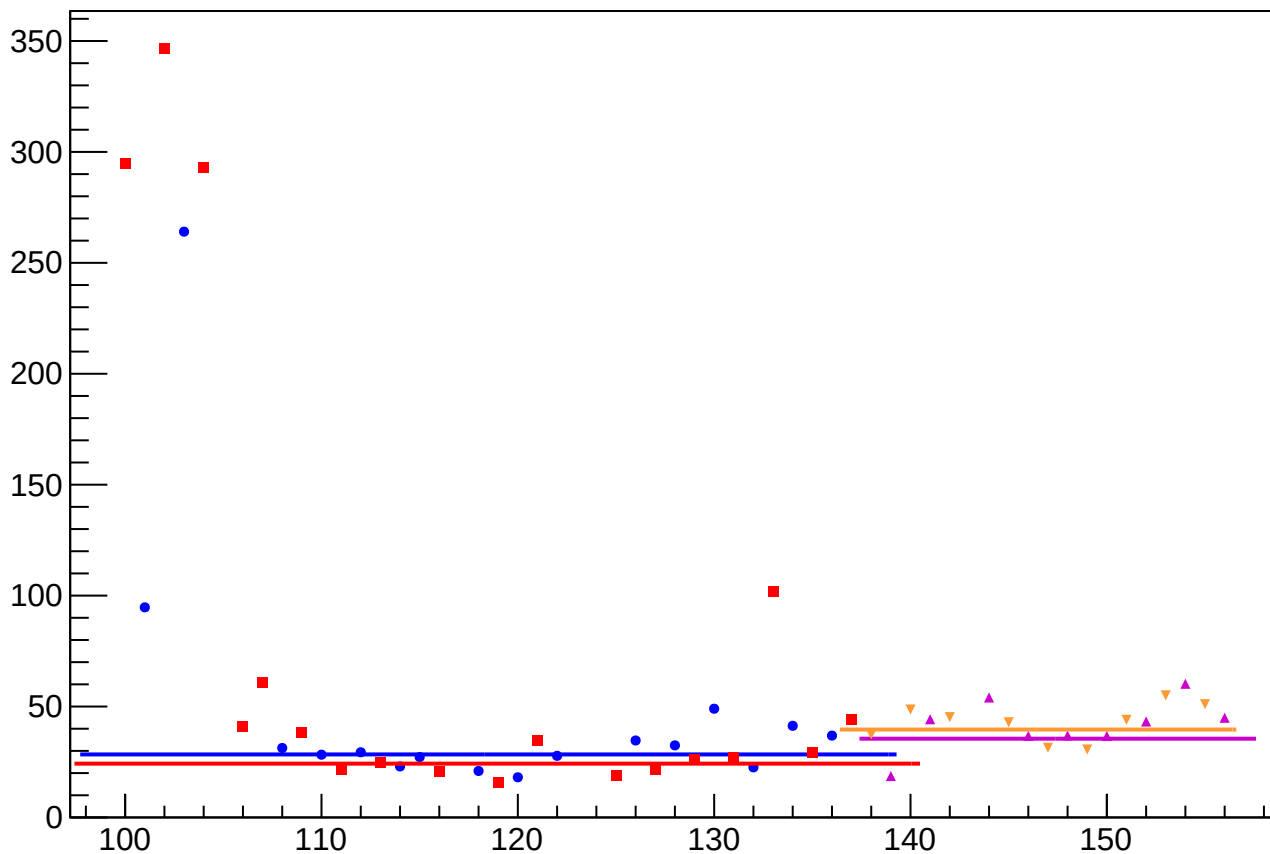
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.011 ± 0.009 χ^2/NDF : 24.8/24

Out: 0.002 ± 0.009 χ^2/NDF : 32.3/26

All: -0.004 ± 0.007 χ^2/NDF : 58.1/51

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: 39.625+/-0.011 χ^2/NDF : 526582.8/8

Right Out: 24.254+/-0.008 χ^2/NDF : 2913710.0/17

Left In: 35.504+/-0.010 χ^2/NDF : 1481262.3/8

Left: 37.325+/-0.008 χ^2/NDF : 2082245.9/17

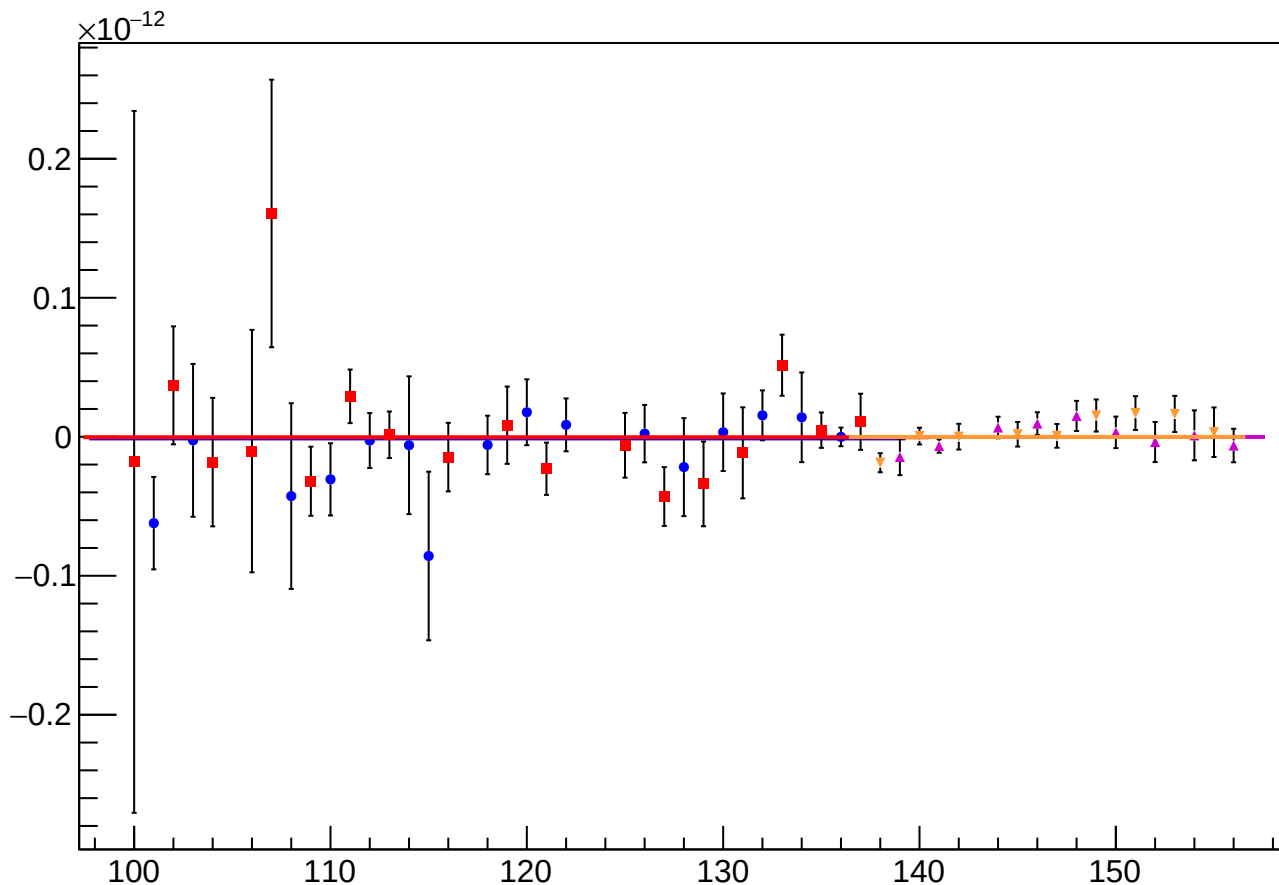
Right: 26.180+/-0.006 χ^2/NDF : 5281817.4/33

In: 31.452+/-0.007 χ^2/NDF : 4011743.0/24

Out: 29.468+/-0.007 χ^2/NDF : 4665608.6/26

All: 30.460+/-0.005 χ^2/NDF : 8722889.6/51

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 : 12.8/8

Right Out: -0.000+/-0.000 χ^2/NDF : 21.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 7.5/8

Left: -0.000+/-0.000 χ^2/NDF : 20.3/17

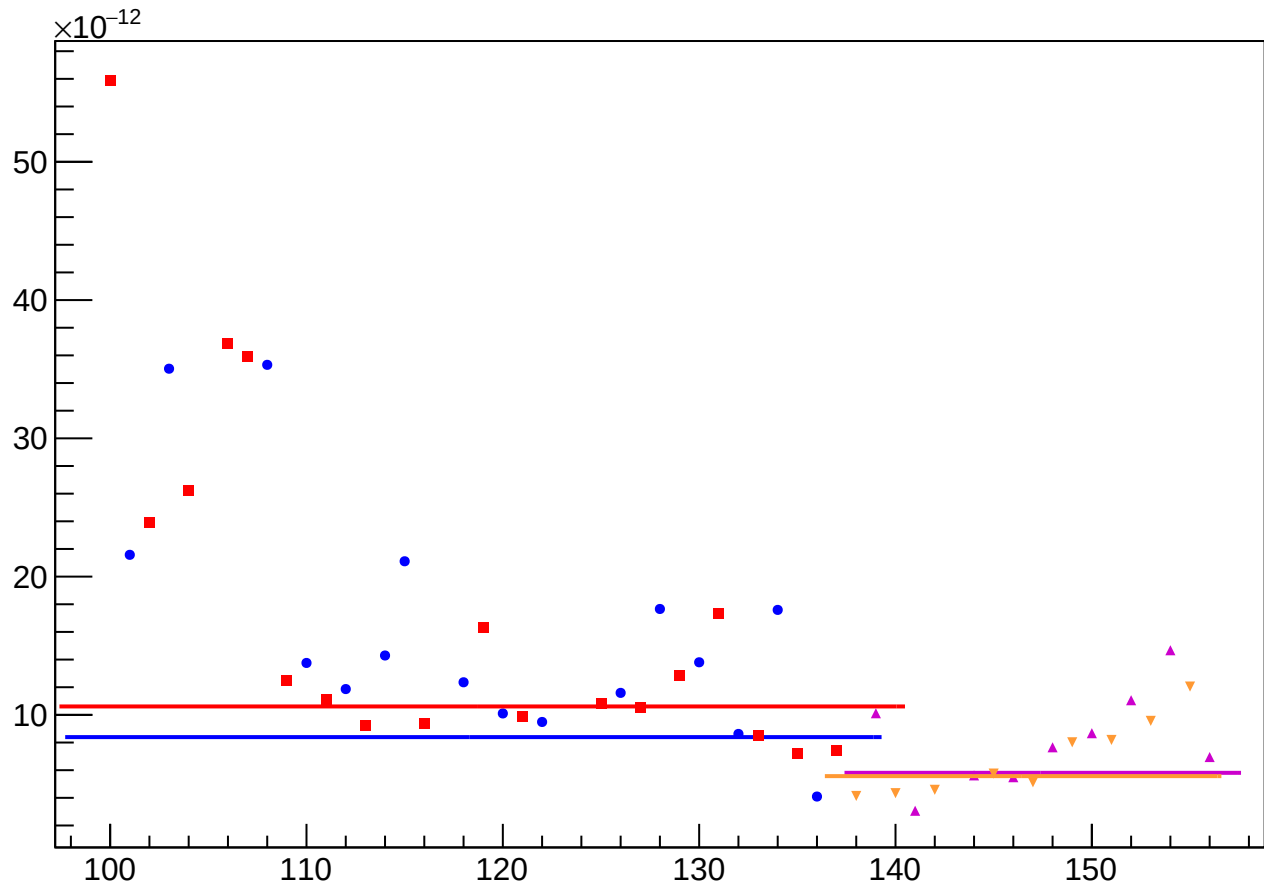
Right: -0.000+/-0.000 χ^2/NDF : 30.5/33

In: -0.000+/-0.000 χ^2/NDF : 17.0/24

Out: -0.000+/-0.000 χ^2/NDF : 33.9/26

All: -0.000+/-0.000 χ^2/NDF : 50.9/51

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2710106.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 835793.3/8

Right Out: 0.000+/-0.000 χ^2/NDF : 1233909.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 1812167.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2654271.3/17

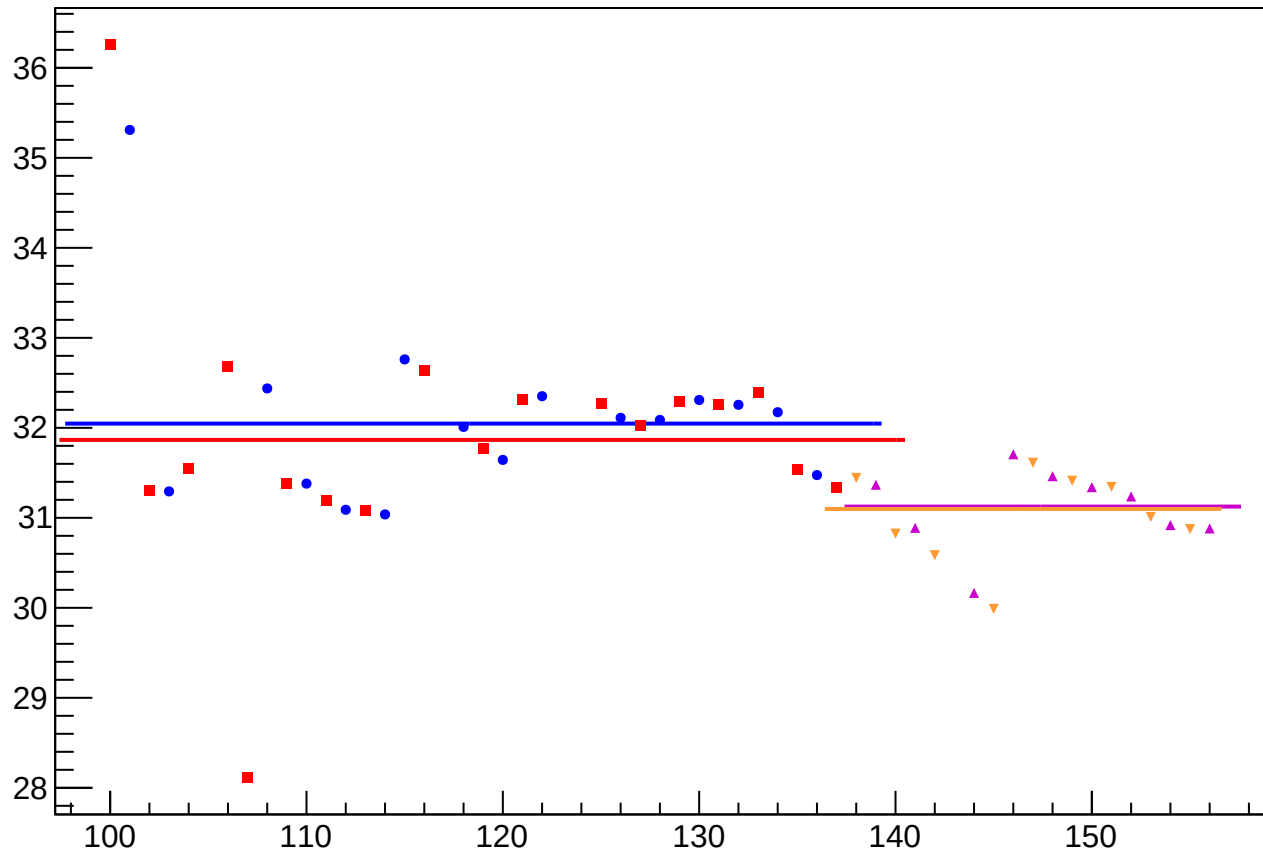
Right: 0.000+/-0.000 χ^2/NDF : 4124908.8/33

In: 0.000+/-0.000 χ^2/NDF : 4941413.0/24

Out: 0.000+/-0.000 χ^2/NDF : 3321238.4/26

All: 0.000+/-0.000 χ^2/NDF : 8266143.3/51

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.047 $\pm$ 0.000 χ^2/NDF : 898593424.6/15

Left Out: 31.099 $\pm$ 0.000 χ^2/NDF : 192981695.8/8

Right Out: 31.866 $\pm$ 0.000 χ^2/NDF : 485941075.6/17

Left In: 31.125 $\pm$ 0.000 χ^2/NDF : 187781734.3/8

Left: 31.112 $\pm$ 0.000 χ^2/NDF : 381117816.2/17

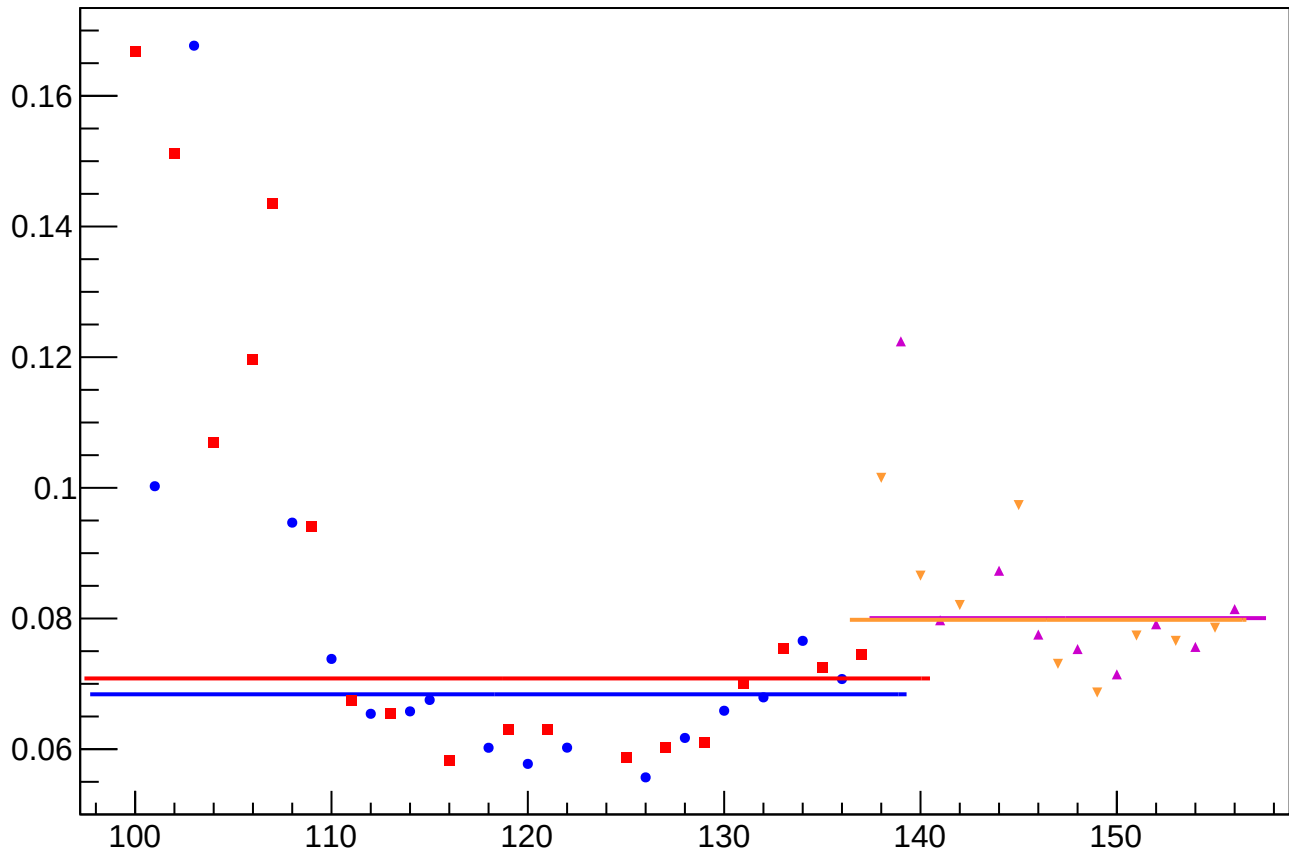
Right: 31.960 $\pm$ 0.000 χ^2/NDF : 1405663241.1/33

In: 31.635 $\pm$ 0.000 χ^2/NDF : 1594585768.3/24

Out: 31.527 $\pm$ 0.000 χ^2/NDF : 1001731175.2/26

All: 31.583 $\pm$ 0.000 χ^2/NDF : 2609847597.8/5

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.000 χ^2 /NDF: 703207.9/15

Left Out: 0.080 $\pm$ 0.000 χ^2 /NDF:180666.9/8

Right Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 868237.4/17

Left In: 0.080 $\pm$ 0.000 χ^2 /NDF:237433.8/8

Left: 0.080 $\pm$ 0.000 χ^2 /NDF: 418168.8/17

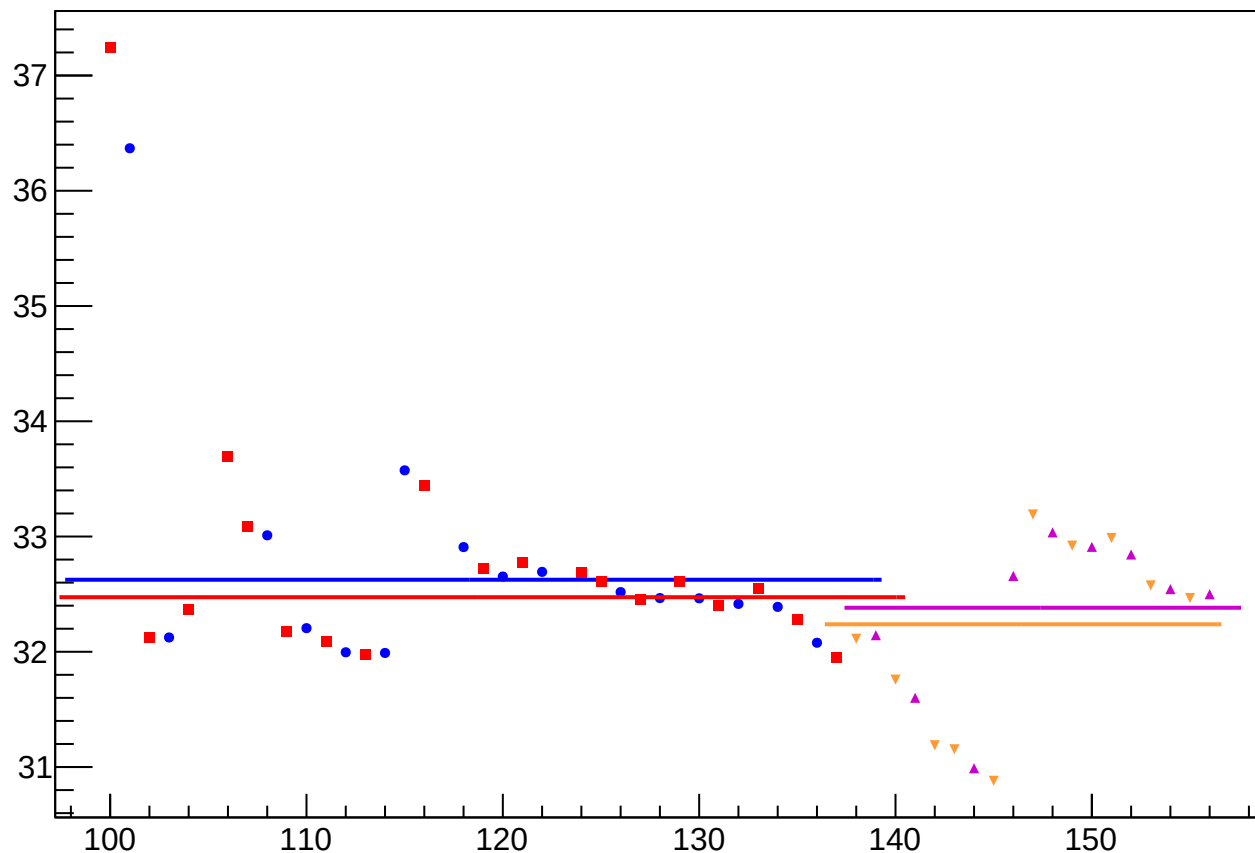
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 1579028.4/33

In: 0.074 $\pm$ 0.000 χ^2 /NDF:1103138.8/24

Out: 0.075 $\pm$ 0.000 χ^2 /NDF:1137267.5/26

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 2243645.3/51

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.625 $\pm$ 0.000 χ^2 /NDF: 739141163.5/15

Left Out: 32.239 $\pm$ 0.000 χ^2 /NDF: 741024514.1/9

Right Out: 32.474 $\pm$ 0.000 χ^2 /NDF: 156801553.7/18

Left In: 32.382 $\pm$ 0.000 χ^2 /NDF: 514340201.1/8

Left: 32.310 $\pm$ 0.000 χ^2 /NDF: 1267246432.8/18

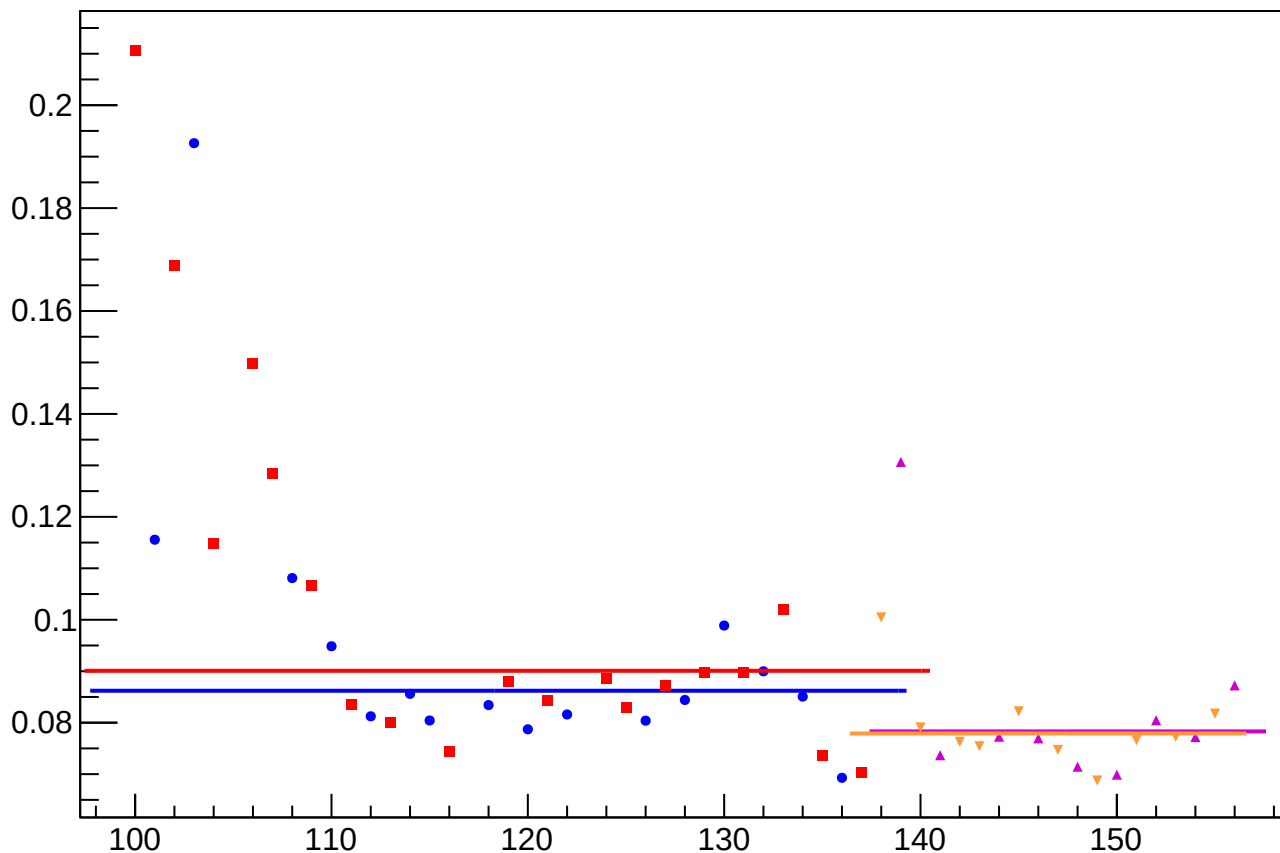
Right: 32.552 $\pm$ 0.000 χ^2 /NDF: 905331922.0/34

In: 32.485 $\pm$ 0.000 χ^2 /NDF: 1282230414.1/24

Out: 32.334 $\pm$ 0.000 χ^2 /NDF: 923845466.4/28

All: 32.410 $\pm$ 0.000 χ^2 /NDF: 2228540558.8/5

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 598718.4/15

Left Out: 0.078+/-0.000 χ^2/NDF :112904.2/9

Right Out: 0.090+/-0.000 χ^2/NDF : 621848.1/18

Left In: 0.078+/-0.000 χ^2/NDF :324588.0/8

Left: 0.078+/-0.000 χ^2/NDF : 437682.0/18

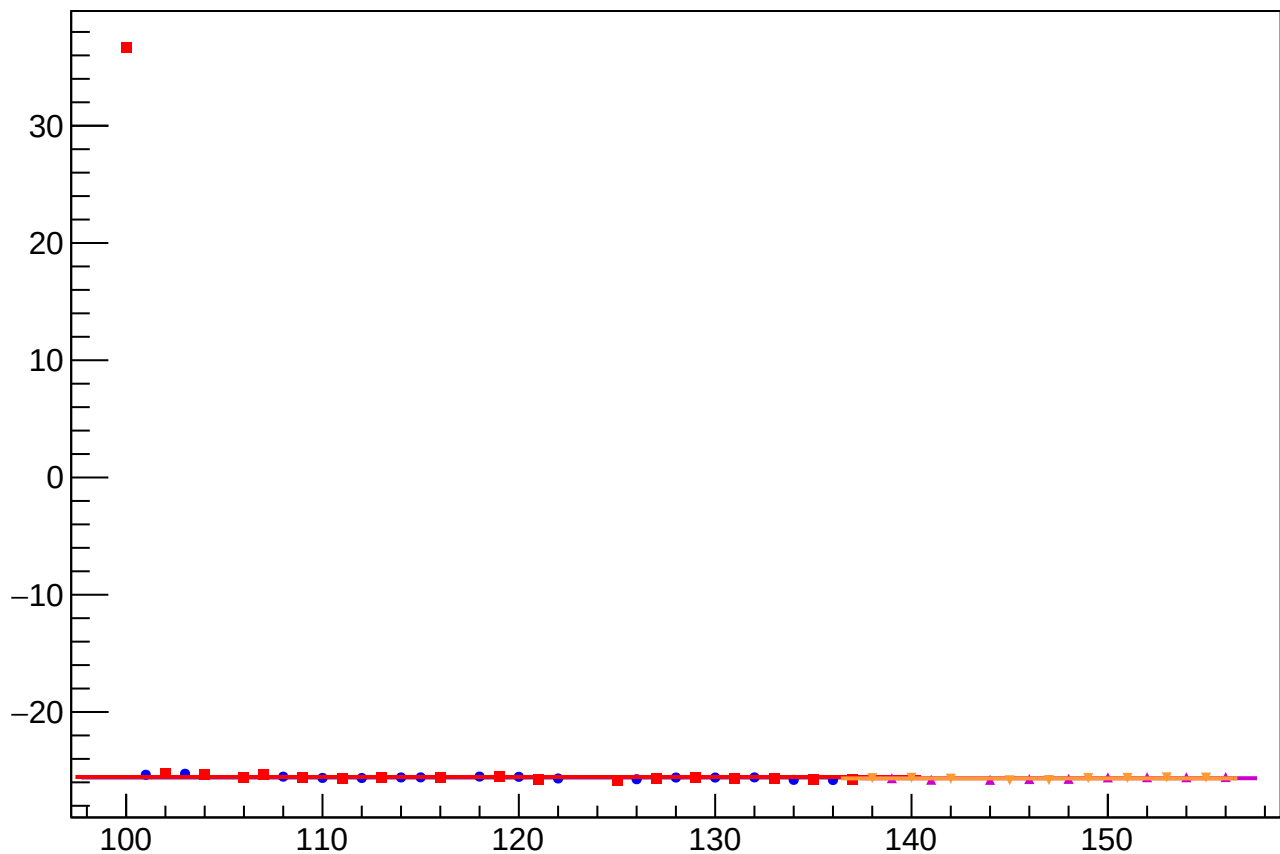
Right: 0.088+/-0.000 χ^2/NDF : 1232875.9/34

In: 0.082+/-0.000 χ^2/NDF :984130.4/24

Out: 0.083+/-0.000 χ^2/NDF :874766.3/28

All: 0.082+/-0.000 χ^2/NDF : 1861737.2/53

yield_dsl_mean vs Slug, Sign Corrected



Right In: -25.579+/-0.000 χ^2/NDF : 98389255.1/15

Left Out: -25.662+/-0.000 χ^2/NDF : 27868137.8/8

Right Out: -25.544+/-0.000 χ^2/NDF : 8907540506.8/17

Left In: -25.649+/-0.000 χ^2/NDF : 35314373.1/8

Left: -25.655+/-0.000 χ^2/NDF : 63563606.1/17

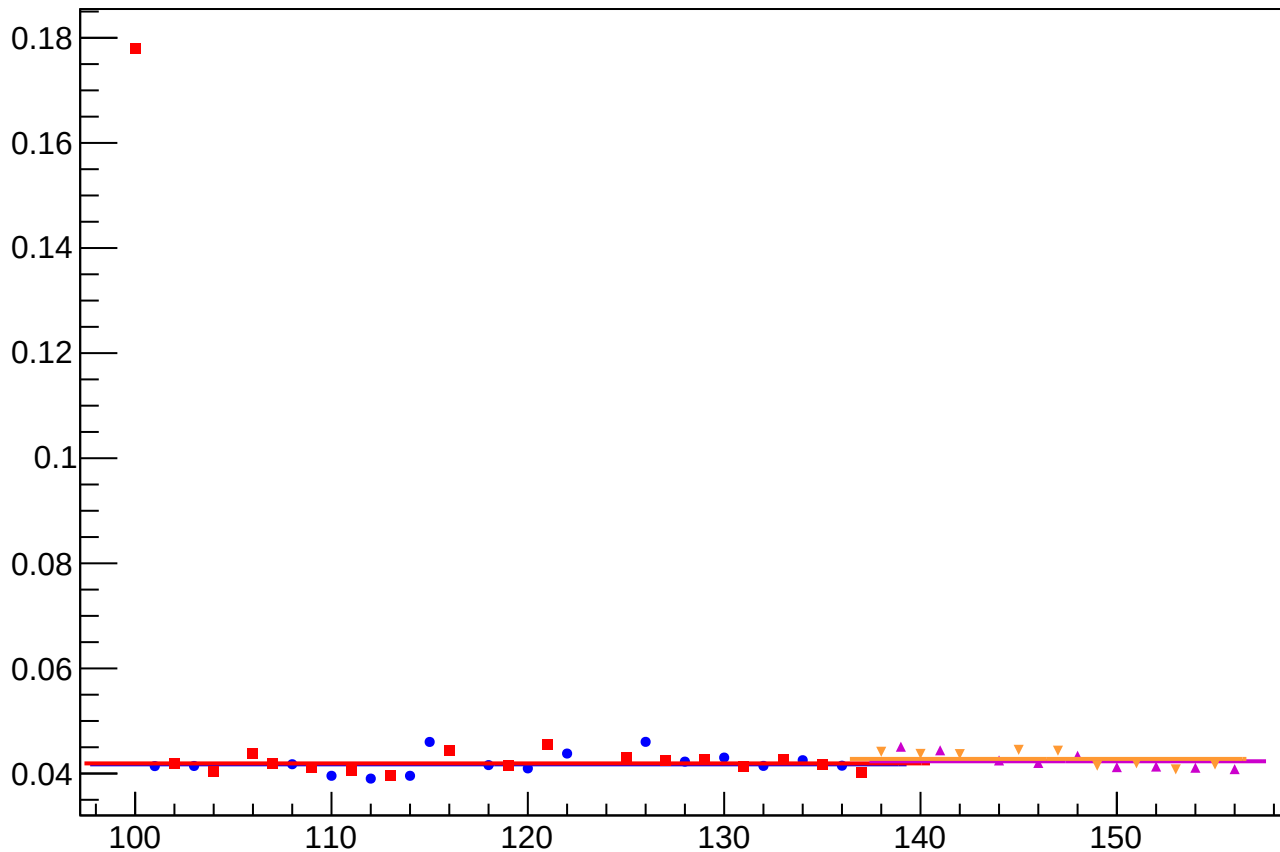
Right: -25.561+/-0.000 χ^2/NDF : 9008481743.9/33

In: -25.615+/-0.000 χ^2/NDF : 143929288.6/24

Out: -25.601+/-0.000 χ^2/NDF : 8963208723.5/26

All: -25.608+/-0.000 χ^2/NDF : 9107939713.2/

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 20733.3/15

Left Out: 0.043 $\pm$ 0.000 χ^2 /NDF:14306.8/8

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 100140.4/17

Left In: 0.042 $\pm$ 0.000 χ^2 /NDF:17248.2/8

Left: 0.043 $\pm$ 0.000 χ^2 /NDF: 32373.7/17

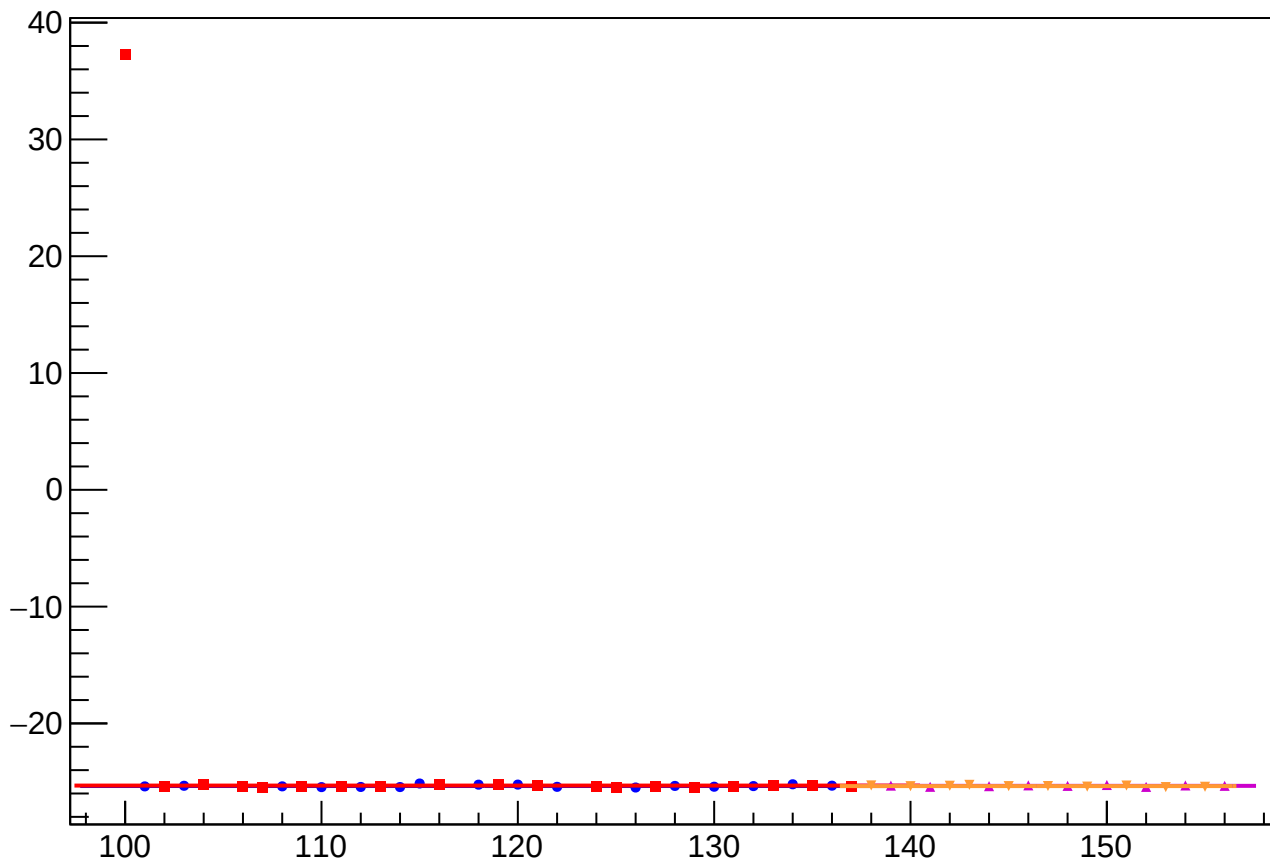
Right: 0.042 $\pm$ 0.000 χ^2 /NDF: 121007.1/33

In: 0.042 $\pm$ 0.000 χ^2 /NDF:39417.2/24

Out: 0.042 $\pm$ 0.000 χ^2 /NDF:117328.4/26

All: 0.042 $\pm$ 0.000 χ^2 /NDF: 157434.7/51

yield_dsr_mean vs Slug, Sign Corrected



Right In: -25.360+/-0.000 χ^2/NDF : 13284405.9/15

Left Out: -25.367+/-0.000 χ^2/NDF : 7682248.6/9

Right Out: -25.322+/-0.000 χ^2/NDF : 6314907036.5/18

Left In: -25.346+/-0.000 χ^2/NDF : 6334487.0/8

Left: -25.356+/-0.000 χ^2/NDF : 14538237.9/18

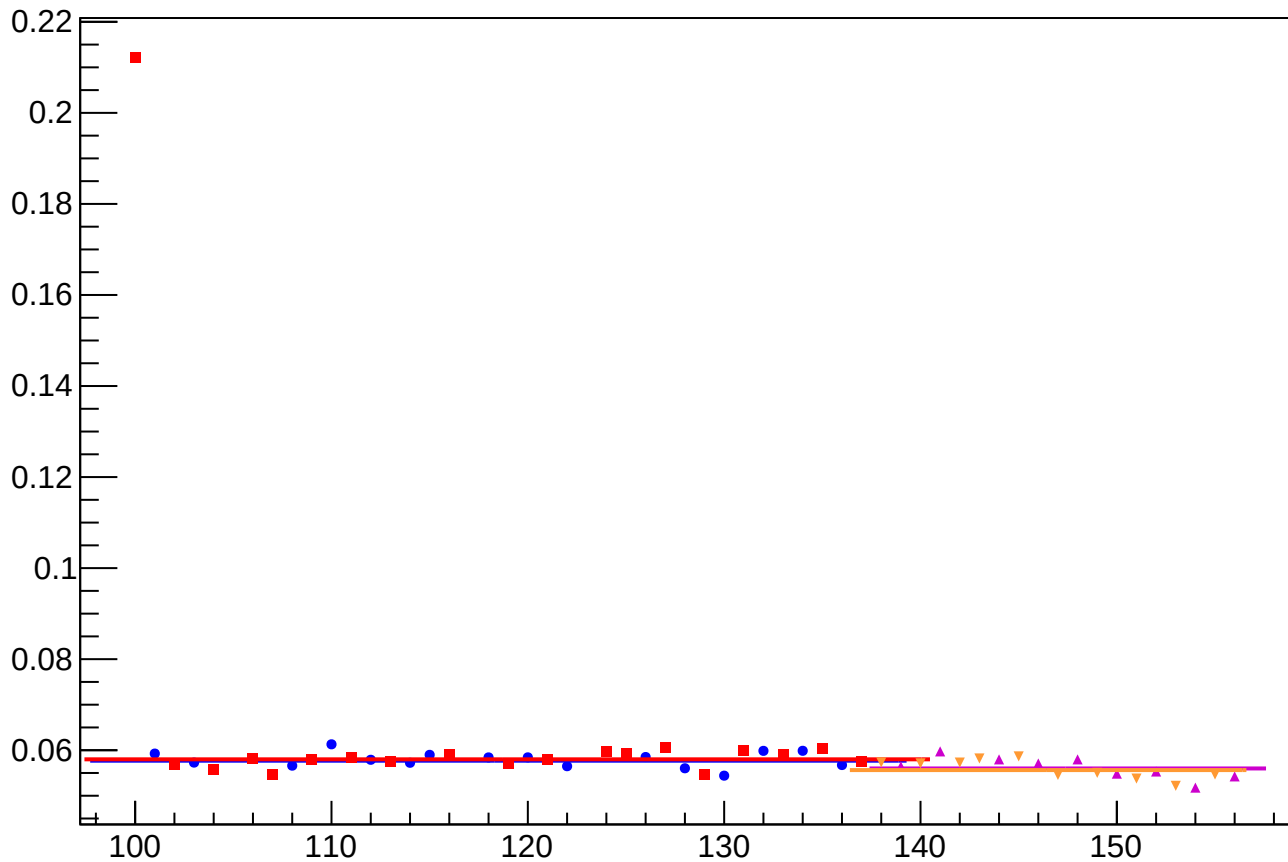
Right: -25.341+/-0.000 χ^2/NDF : 6329738520.5/34

In: -25.353+/-0.000 χ^2/NDF : 19848954.1/24

Out: -25.346+/-0.000 χ^2/NDF : 6324861829.3/28

All: -25.349+/-0.000 χ^2/NDF : 6344815931.7/

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.058 ± 0.000 χ^2/NDF : 11763.6/15

Left Out: 0.056 ± 0.000 χ^2/NDF : 20512.6/9

Right Out: 0.058 ± 0.000 χ^2/NDF : 88682.9/18

Left In: 0.056 ± 0.000 χ^2/NDF : 25307.2/8

Left: 0.056 ± 0.000 χ^2/NDF : 46128.8/18

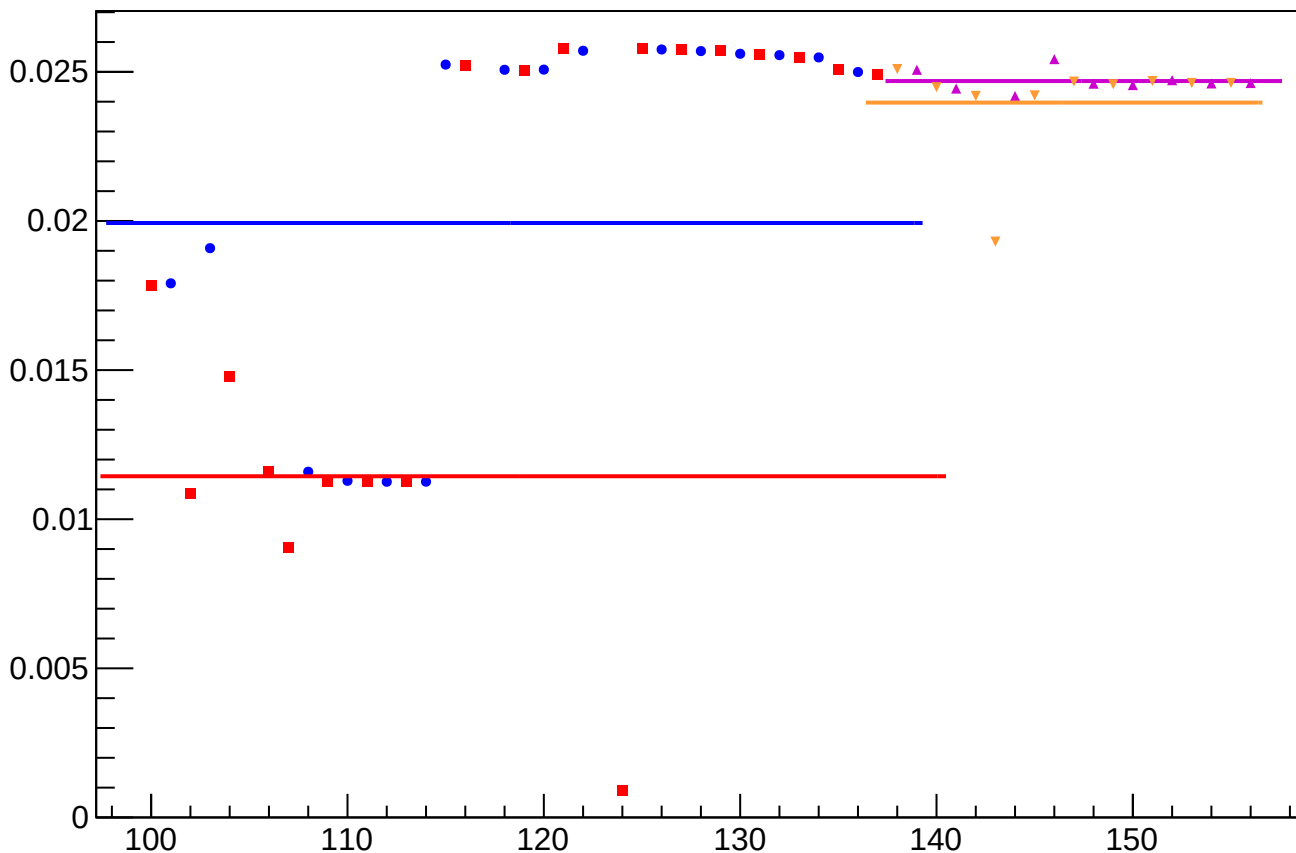
Right: 0.058 ± 0.000 χ^2/NDF : 100633.0/34

In: 0.057 ± 0.000 χ^2/NDF : 43614.7/24

Out: 0.057 ± 0.000 χ^2/NDF : 121945.2/28

All: 0.057 ± 0.000 χ^2/NDF : 165570.0/53

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 62465154056.0/15

Left: 0.024+/-0.000

χ^2/NDF : 5025968540.9/18

Left Out: 0.024+/-0.000

χ^2/NDF : 4490276275.8/9

Right: 0.015+/-0.000

χ^2/NDF : 385775066677.0/34

Right Out: 0.011+/-0.000

χ^2/NDF : 253880264851.8/18

In: 0.022+/-0.000

χ^2/NDF : 79607438003.1/24

Out: 0.016+/-0.000

χ^2/NDF : 404556914598.3/28

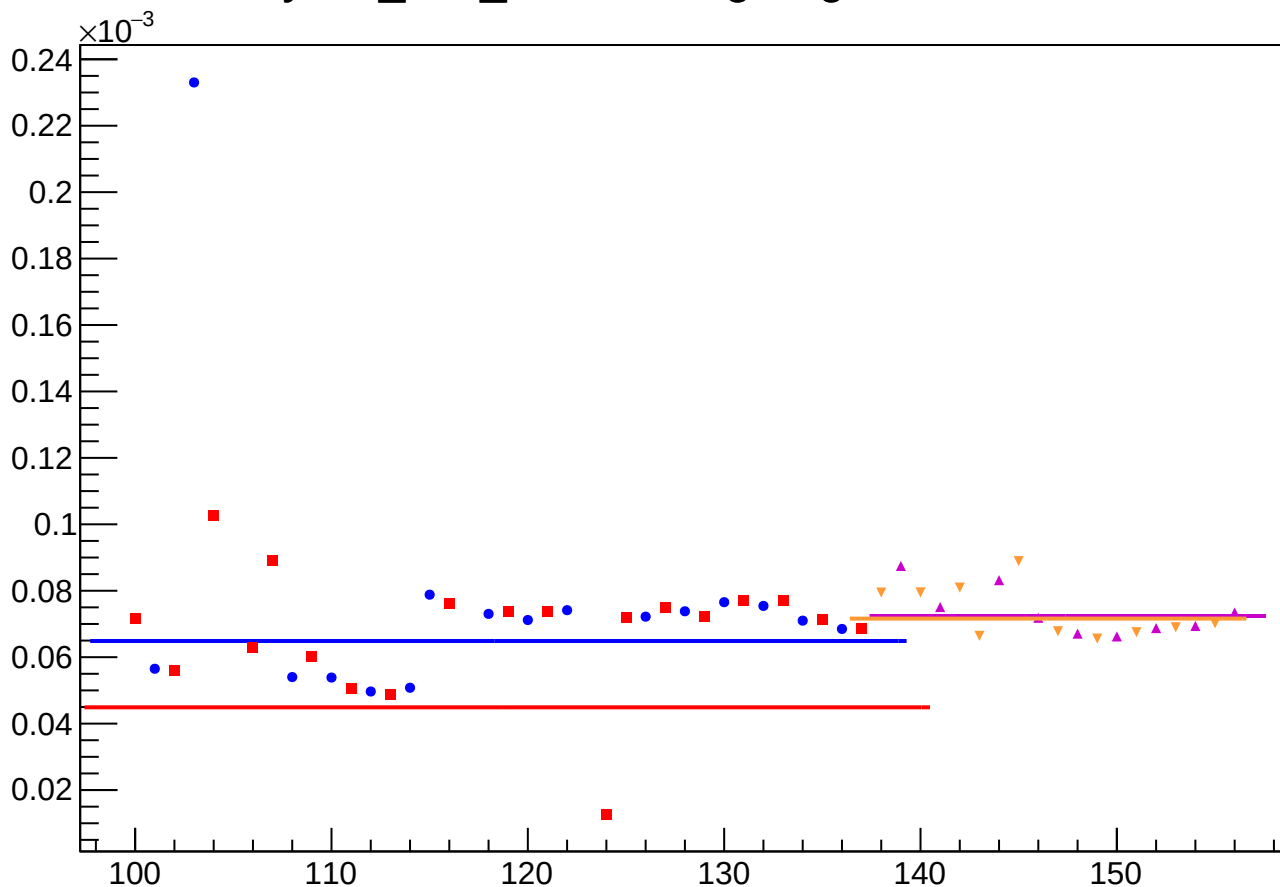
Left In: 0.025+/-0.000

χ^2/NDF : 154624925.9/8

All: 0.019+/-0.000

χ^2/NDF : 549186451420.6

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 :138182.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3770565.9/18

Left In: 0.000+/-0.000 χ^2/NDF :113291.0/8

Left: 0.000+/-0.000 χ^2/NDF : 252358.3/18

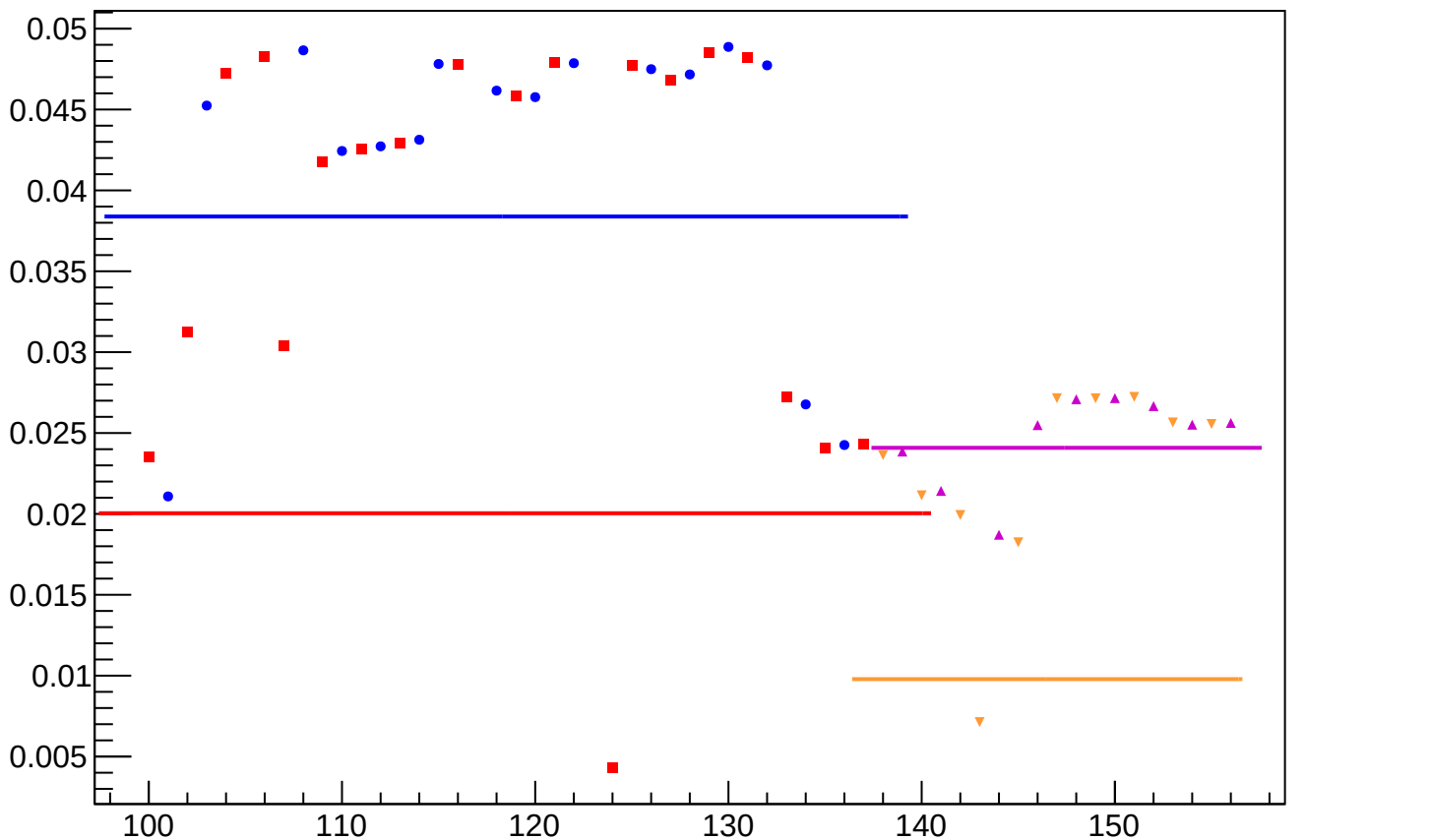
Right: 0.000+/-0.000 χ^2/NDF : 5354969.6/34

In: 0.000+/-0.000 χ^2/NDF :1015084.4/24

Out: 0.000+/-0.000 χ^2/NDF :5237533.3/28

All: 0.000+/-0.000 χ^2/NDF : 6898730.9/53

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.038+/-0.000

χ^2/NDF : 7078619233.3/15

Left: 0.012+/-0.000

χ^2/NDF : 36024434031.4/18

Left Out: 0.010+/-0.000

χ^2/NDF : 20308475568.2/9

Right: 0.026+/-0.000

χ^2/NDF : 62680347103.1/34

Right Out: 0.020+/-0.000

χ^2/NDF : 42185025429.6/18

In: 0.030+/-0.000

χ^2/NDF : 15050119973.1/24

Out: 0.012+/-0.000

χ^2/NDF : 72879068858.7/28

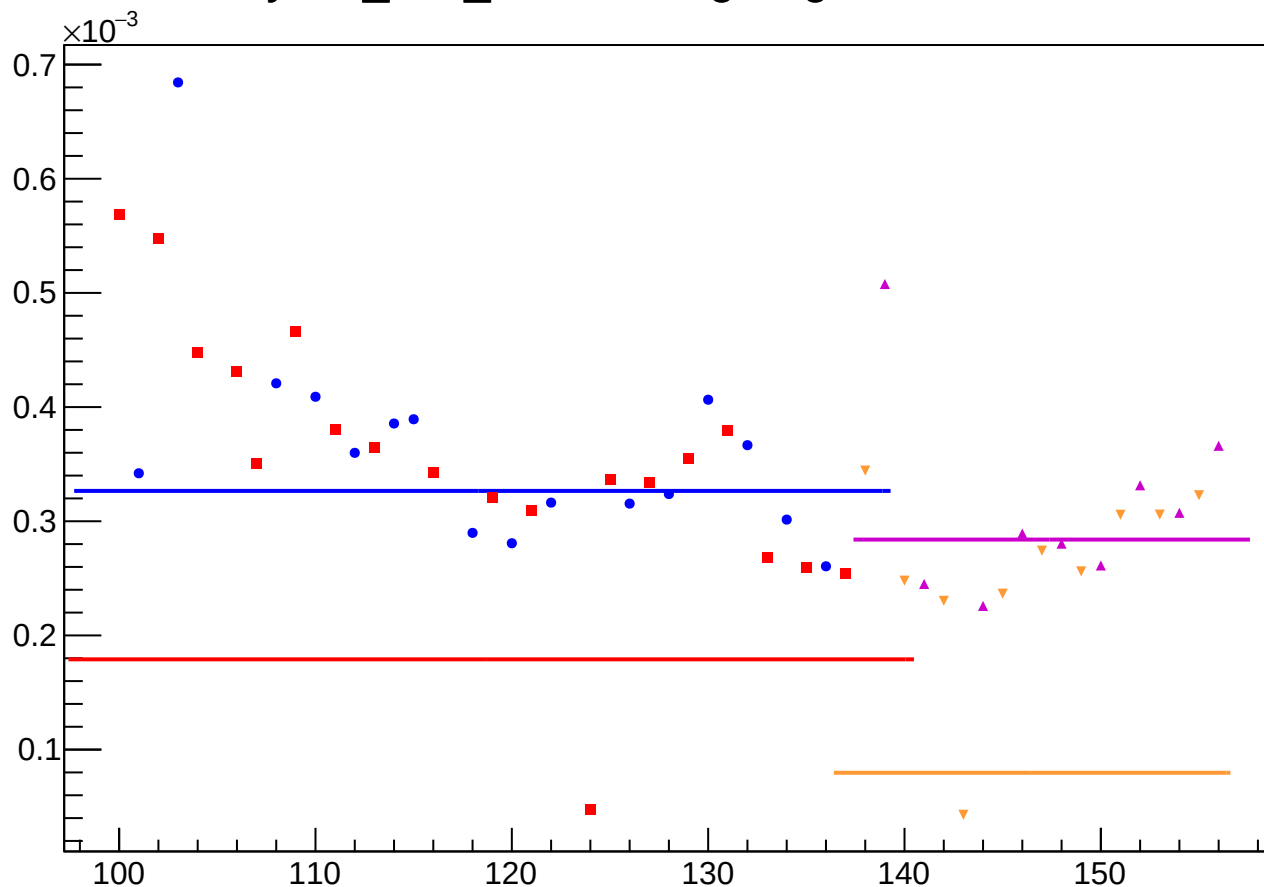
Left In: 0.024+/-0.000

χ^2/NDF : 850000155.2/8

All: 0.015+/-0.000

χ^2/NDF : 126949773475.1

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 : 7619704.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 5660786.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 583977.4/8

Left: 0.000+/-0.000 χ^2/NDF : 14270309.9/18

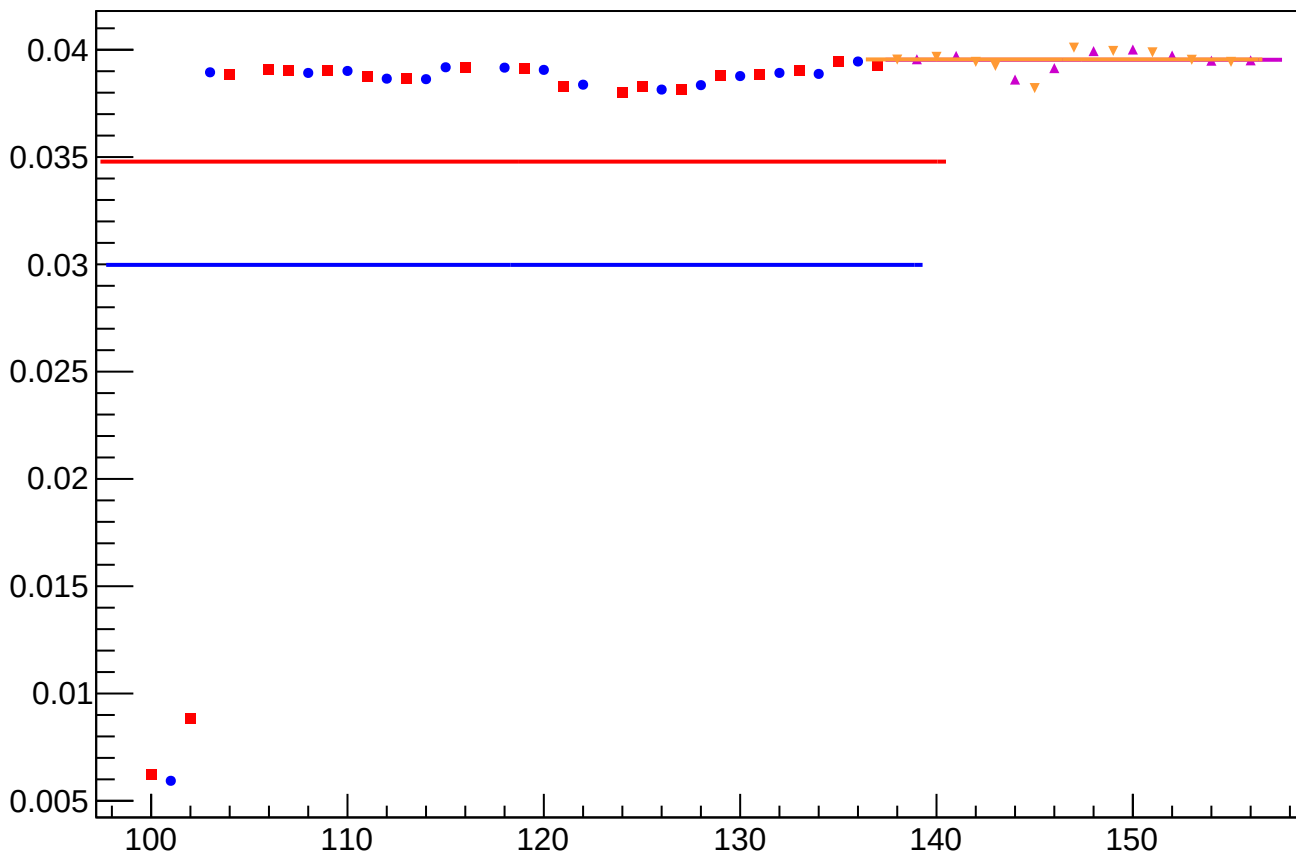
Right: 0.000+/-0.000 χ^2/NDF : 7977614.8/34

In: 0.000+/-0.000 χ^2/NDF : 1291960.4/24

Out: 0.000+/-0.000 χ^2/NDF : 15230472.3/28

All: 0.000+/-0.000 χ^2/NDF : 26184496.9/53

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 : 158746573.7/18

Right: 0.032+/-0.000 χ^2/NDF : 161037517780.6/34

Left Out: 0.040+/-0.000

χ^2/NDF : 92854385.8/9

In: 0.034+/-0.000 χ^2/NDF : 128974930719.1/24

Right Out: 0.035+/-0.000

χ^2/NDF : 47263545471.6/18

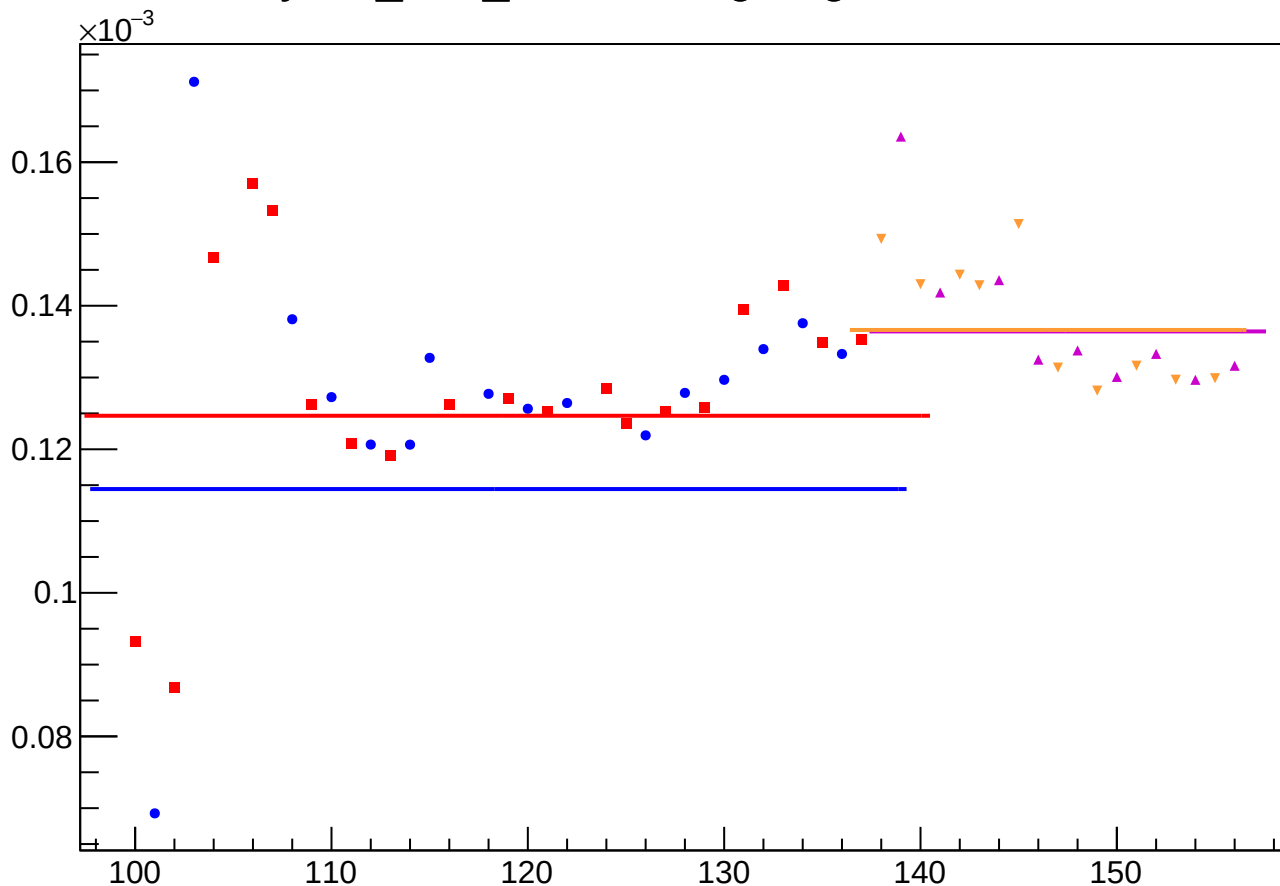
Out: 0.037+/-0.000 χ^2/NDF : 52173347834.6/28

Left In: 0.040+/-0.000

χ^2/NDF : 65836672.0/8

All: 0.036+/-0.000 χ^2/NDF : 184667984684.9

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 :55278.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 260393.6/18

Left In: 0.000+/-0.000 χ^2/NDF :66284.0/8

Left: 0.000+/-0.000 χ^2/NDF : 121579.5/18

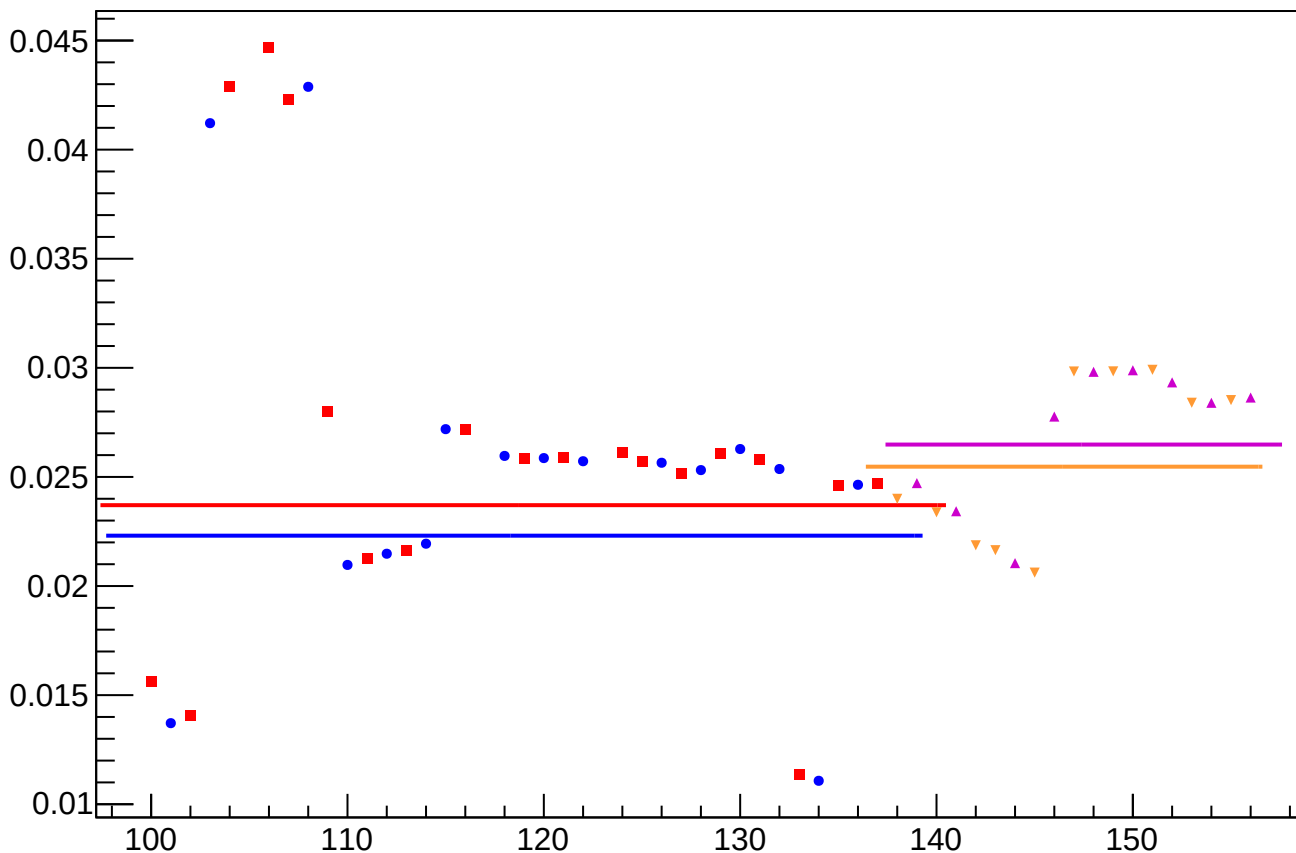
Right: 0.000+/-0.000 χ^2/NDF : 1163063.5/34

In: 0.000+/-0.000 χ^2/NDF :1137294.2/24

Out: 0.000+/-0.000 χ^2/NDF :376369.4/28

All: 0.000+/-0.000 χ^2/NDF : 1546787.8/53

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 5012486114.6/15

Left Out: 0.025+/-0.000 χ^2/NDF : 1442705958.1/9

Right Out: 0.024+/-0.000 χ^2/NDF : 5581865088.7/18

Left In: 0.026+/-0.000 χ^2/NDF : 1047526549.6/8

Left: 0.026+/-0.000 χ^2/NDF : 2539287140.5/18

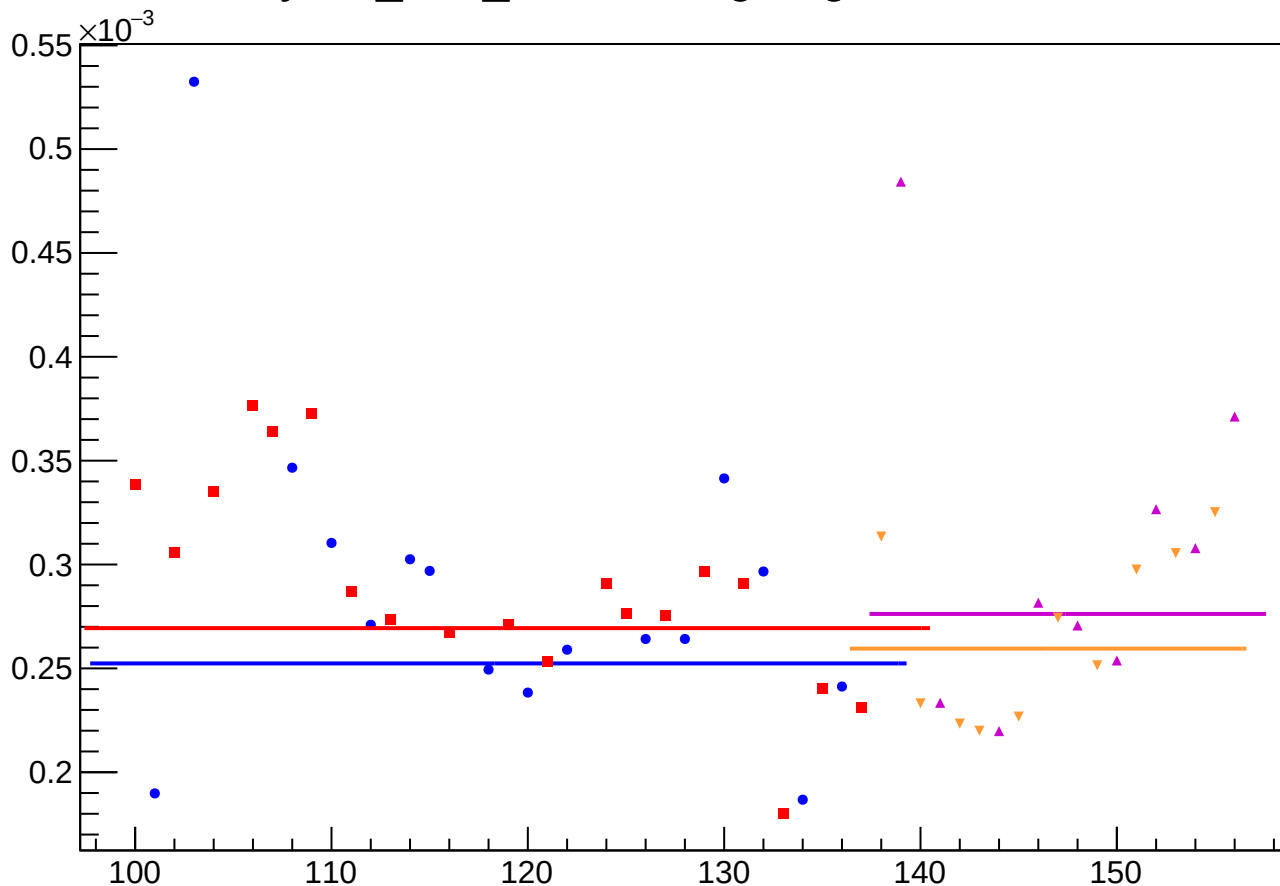
Right: 0.023+/-0.000 χ^2/NDF : 10685664717.3/34

In: 0.024+/-0.000 χ^2/NDF : 6878337241.7/24

Out: 0.025+/-0.000 χ^2/NDF : 7172484575.1/28

All: 0.024+/-0.000 χ^2/NDF : 14061865837.7/5

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 :280426.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 446359.4/18

Left In: 0.000+/-0.000 χ^2/NDF :622781.9/8

Left: 0.000+/-0.000 χ^2/NDF : 929790.7/18

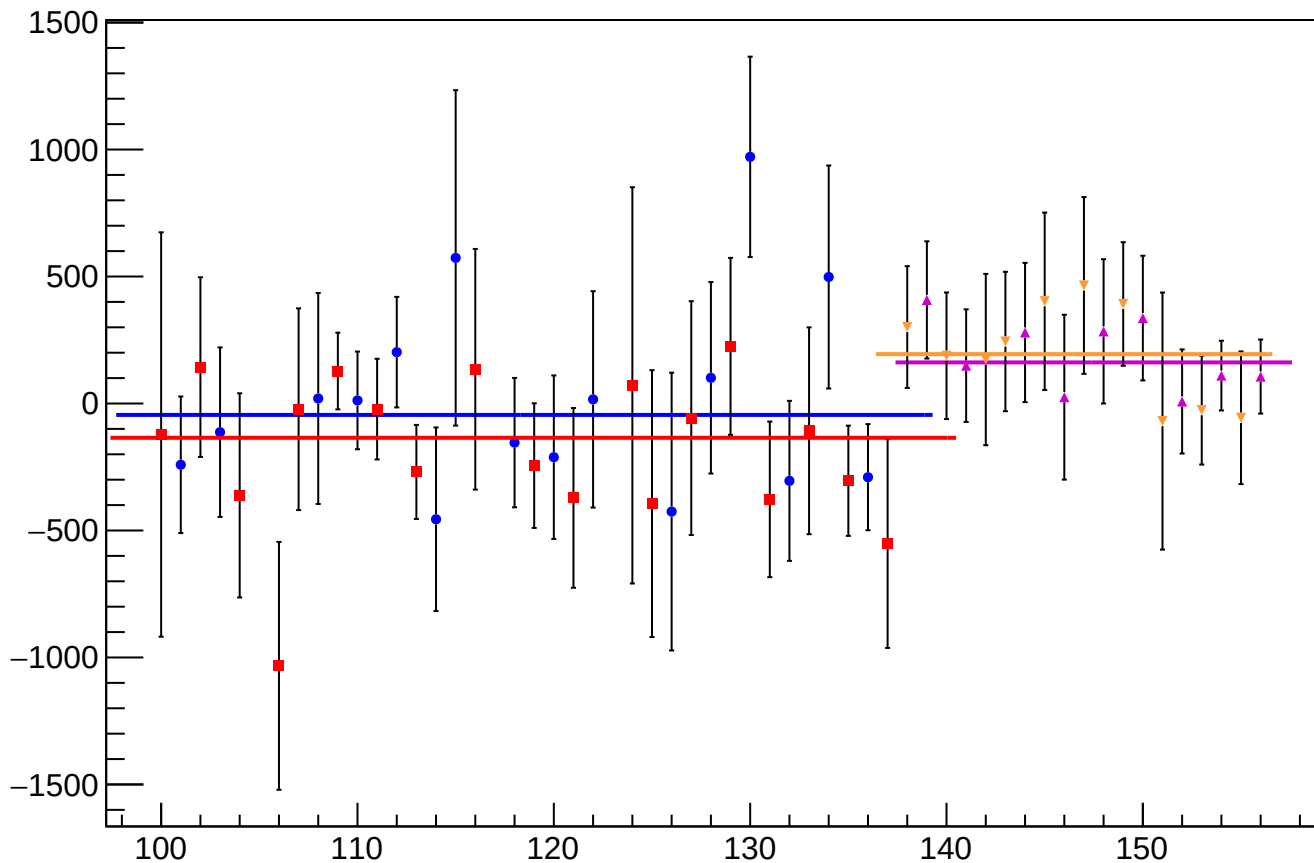
Right: 0.000+/-0.000 χ^2/NDF : 1181187.1/34

In: 0.000+/-0.000 χ^2/NDF :1383916.6/24

Out: 0.000+/-0.000 χ^2/NDF :736005.7/28

All: 0.000+/-0.000 χ^2/NDF : 2119945.0/53

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: 194.389 ± 87.960 $\chi^2/\text{NDF}: 4.1/9$

Right Out: -134.996 ± 68.062 $\chi^2/\text{NDF}: 12.9/18$

Left In: 161.795 ± 68.222 $\chi^2/\text{NDF}: 3.0/8$

Left: 174.037 ± 53.908 $\chi^2/\text{NDF}: 7.2/18$

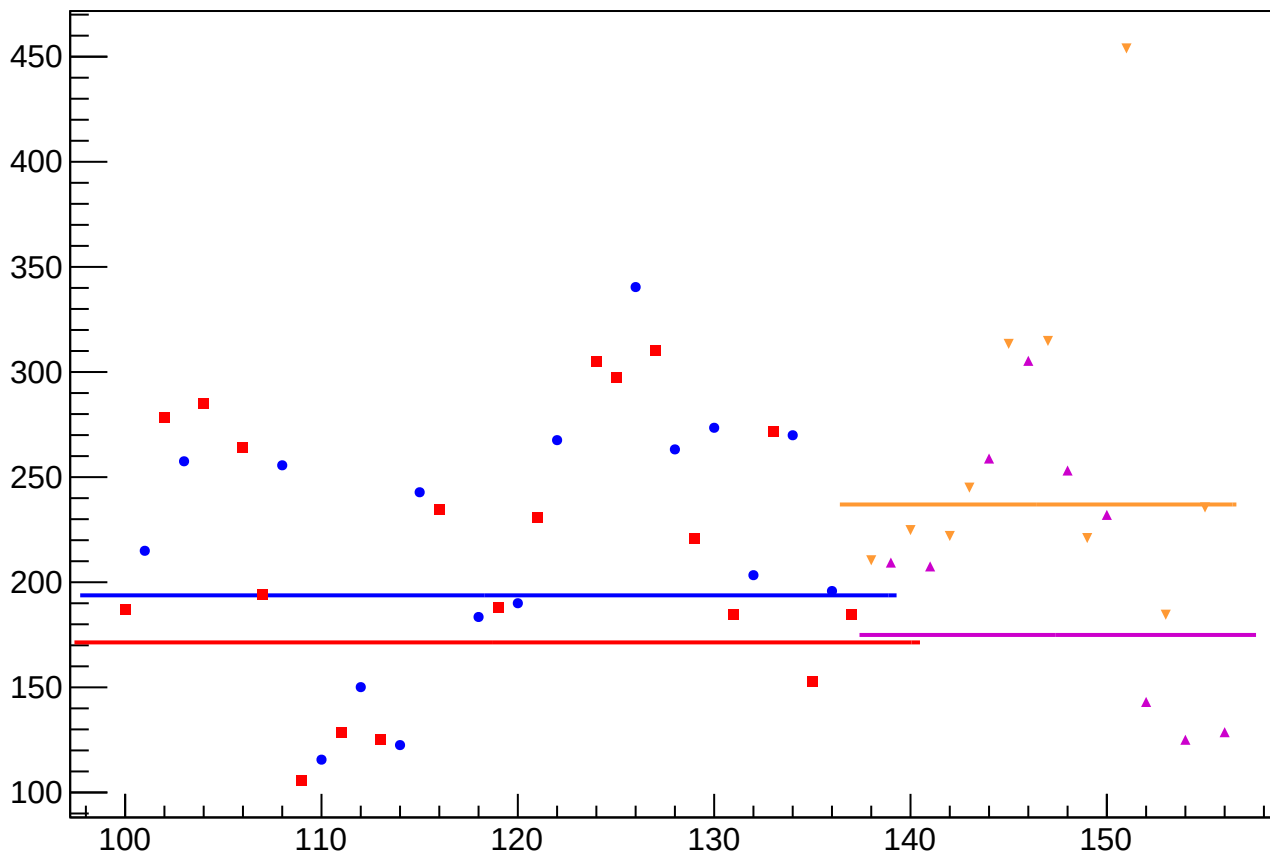
Right: -95.021 ± 50.761 $\chi^2/\text{NDF}: 29.2/34$

In: 69.821 ± 50.827 $\chi^2/\text{NDF}: 22.6/24$

Out: -11.639 ± 53.829 $\chi^2/\text{NDF}: 25.8/28$

All: 31.426 ± 36.956 $\chi^2/\text{NDF}: 49.6/53$

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: 236.989 $\pm$ 0.062

χ^2 /NDF: 726535.1/9

Right Out: 171.382 $\pm$ 0.048

χ^2 /NDF: 1658079.5/18

Left In: 174.931 $\pm$ 0.048

χ^2 /NDF: 1371530.5/8

Left: 198.241 $\pm$ 0.038

χ^2 /NDF: 2719669.3/18

Right: 181.316 $\pm$ 0.036

χ^2 /NDF: 2802189.0/34

In: 183.312 $\pm$ 0.036

χ^2 /NDF: 2487463.8/24

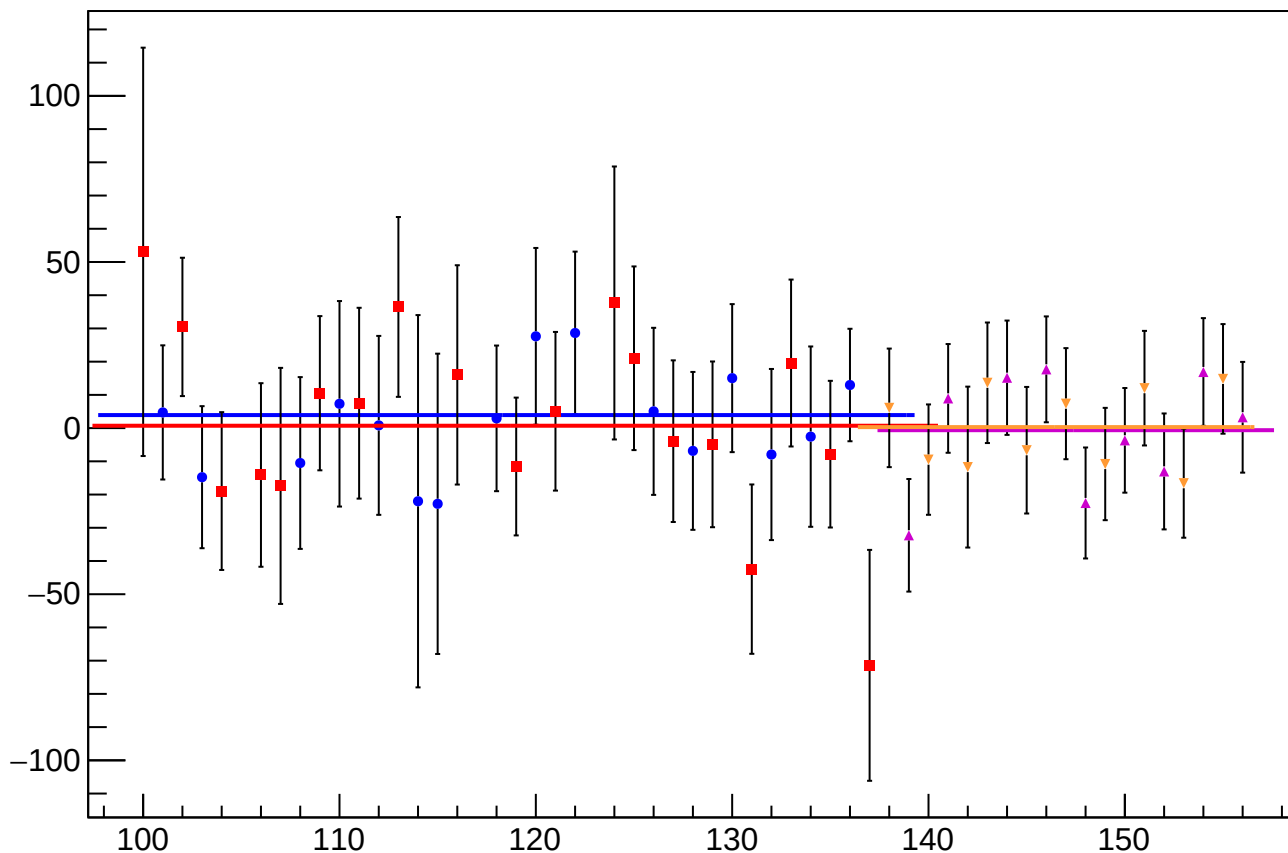
Out: 195.952 $\pm$ 0.038

χ^2 /NDF: 3080583.1/28

All: 189.270 $\pm$ 0.026

χ^2 /NDF: 5626347.3/53

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: 0.301 ± 5.582 $\chi^2/\text{NDF}: 4.3/9$

Right Out: 0.714 ± 6.077 $\chi^2/\text{NDF}: 15.9/18$

Left In: -0.626 ± 5.518 $\chi^2/\text{NDF}: 9.5/8$

Left: -0.168 ± 3.924 $\chi^2/\text{NDF}: 13.8/18$

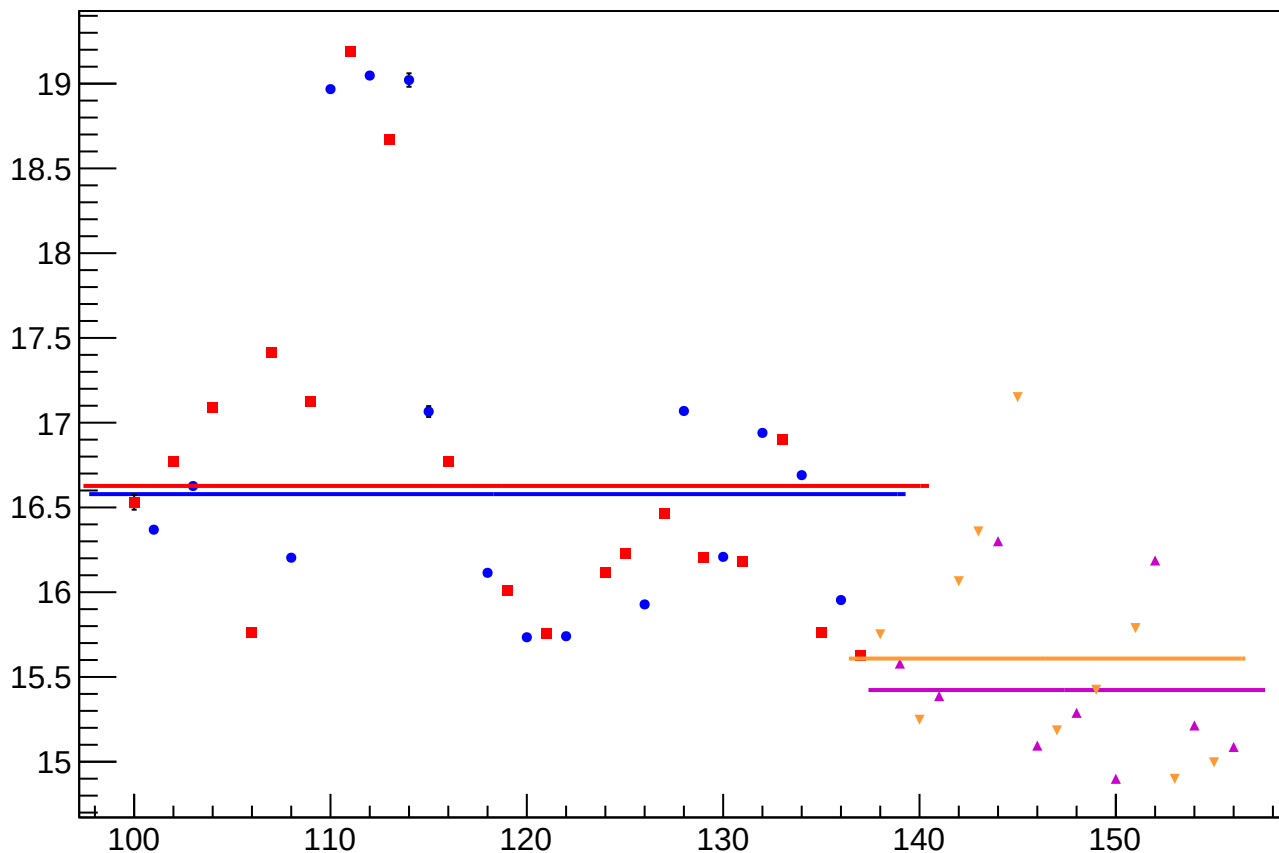
Right: 2.294 ± 4.330 $\chi^2/\text{NDF}: 20.5/34$

In: 1.395 ± 4.114 $\chi^2/\text{NDF}: 14.3/24$

Out: 0.490 ± 4.111 $\chi^2/\text{NDF}: 20.2/28$

All: 0.942 ± 2.908 $\chi^2/\text{NDF}: 34.5/53$

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: 15.609 $\pm$ 0.004 χ^2 /NDF: 26533.0/9

Right Out: 16.627 $\pm$ 0.004 χ^2 /NDF: 43461.8/18

Left In: 15.423 $\pm$ 0.004 χ^2 /NDF: 13552.3/8

Left: 15.515 $\pm$ 0.003 χ^2 /NDF: 41205.1/18

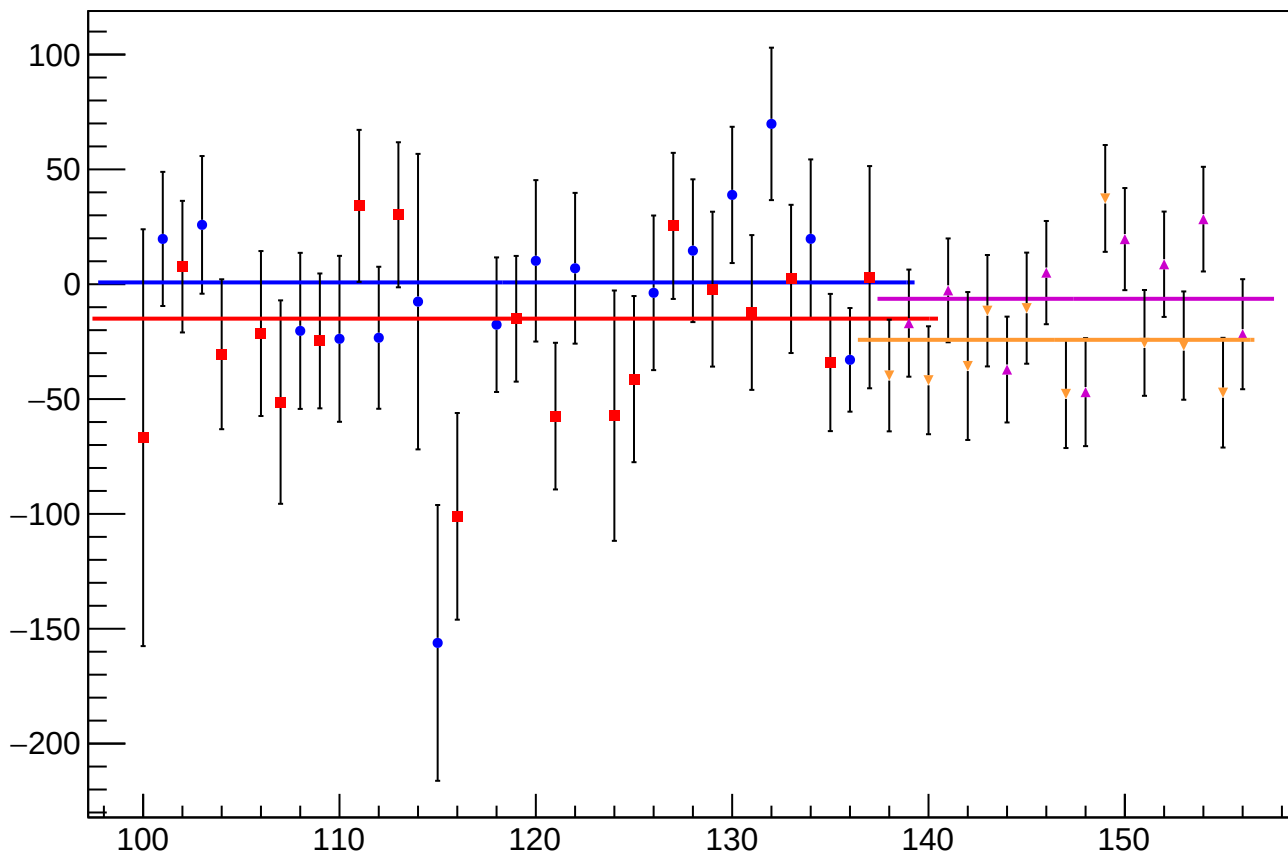
Right: 16.603 $\pm$ 0.003 χ^2 /NDF: 88099.6/34

In: 15.936 $\pm$ 0.003 χ^2 /NDF: 97098.8/24

Out: 16.075 $\pm$ 0.003 χ^2 /NDF: 100450.0/28

All: 16.006 $\pm$ 0.002 χ^2 /NDF: 198679.0/53

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: -24.204 ± 7.679 $\chi^2/\text{NDF}: 10.6/9$

Right Out: -14.981 ± 7.953 $\chi^2/\text{NDF}: 15.4/18$

Left In: -6.346 ± 7.656 $\chi^2/\text{NDF}: 9.8/8$

Left: -15.248 ± 5.422 $\chi^2/\text{NDF}: 23.1/18$

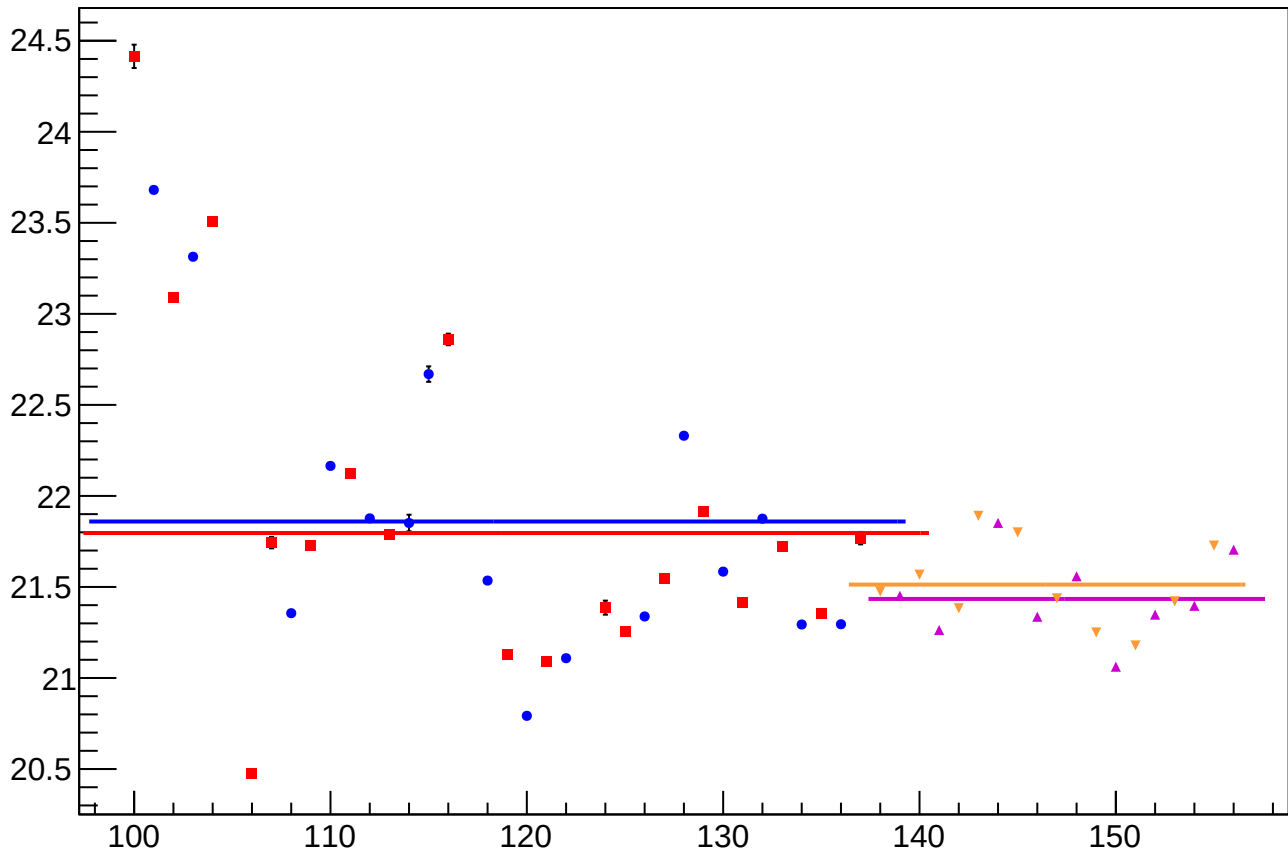
Right: -7.264 ± 5.683 $\chi^2/\text{NDF}: 36.0/34$

In: -2.990 ± 5.572 $\chi^2/\text{NDF}: 28.8/24$

Out: -19.754 ± 5.524 $\chi^2/\text{NDF}: 26.7/28$

All: -11.444 ± 3.923 $\chi^2/\text{NDF}: 60.1/53$

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: 21.513 $\pm$ 0.005 χ^2 /NDF:1703.1/9

Right Out: 21.796 $\pm$ 0.006 χ^2 /NDF: 18861.3/18

Left In: 21.434 $\pm$ 0.005 χ^2 /NDF:1715.9/8

Left: 21.473 $\pm$ 0.004 χ^2 /NDF: 3524.9/18

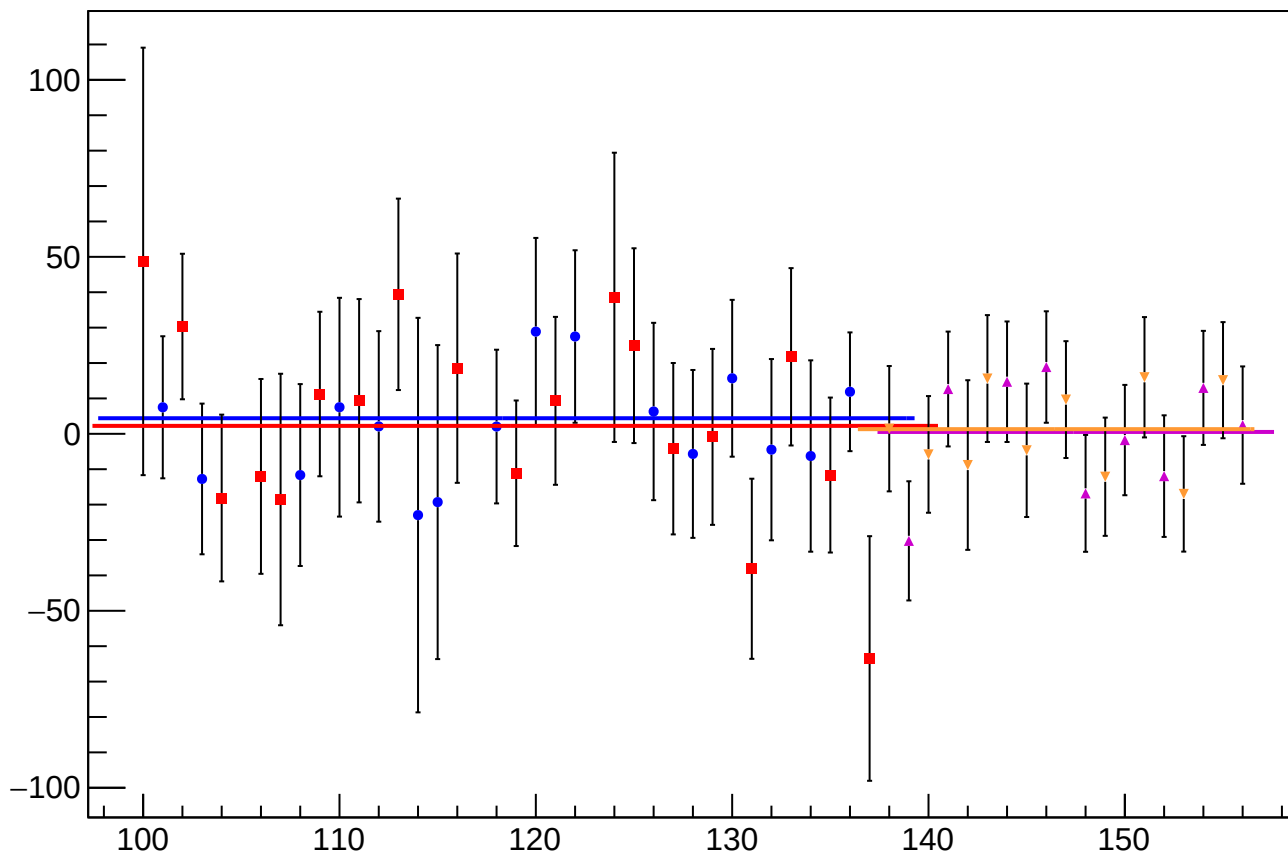
Right: 21.827 $\pm$ 0.004 χ^2 /NDF: 38391.5/34

In: 21.634 $\pm$ 0.004 χ^2 /NDF:24088.0/24

Out: 21.650 $\pm$ 0.004 χ^2 /NDF:21876.8/28

All: 21.642 $\pm$ 0.003 χ^2 /NDF: 45972.5/53

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.404 $\pm$ 6.137 χ^2 /NDF: 4.3/15

Left Out: 1.317 $\pm$ 5.527 χ^2 /NDF:4.7/9

Right Out: 2.244 $\pm$ 6.042 χ^2 /NDF: 15.4/18

Left In: 0.529 $\pm$ 5.466 χ^2 /NDF:8.2/8

Left: 0.919 $\pm$ 3.886 χ^2 /NDF: 12.9/18

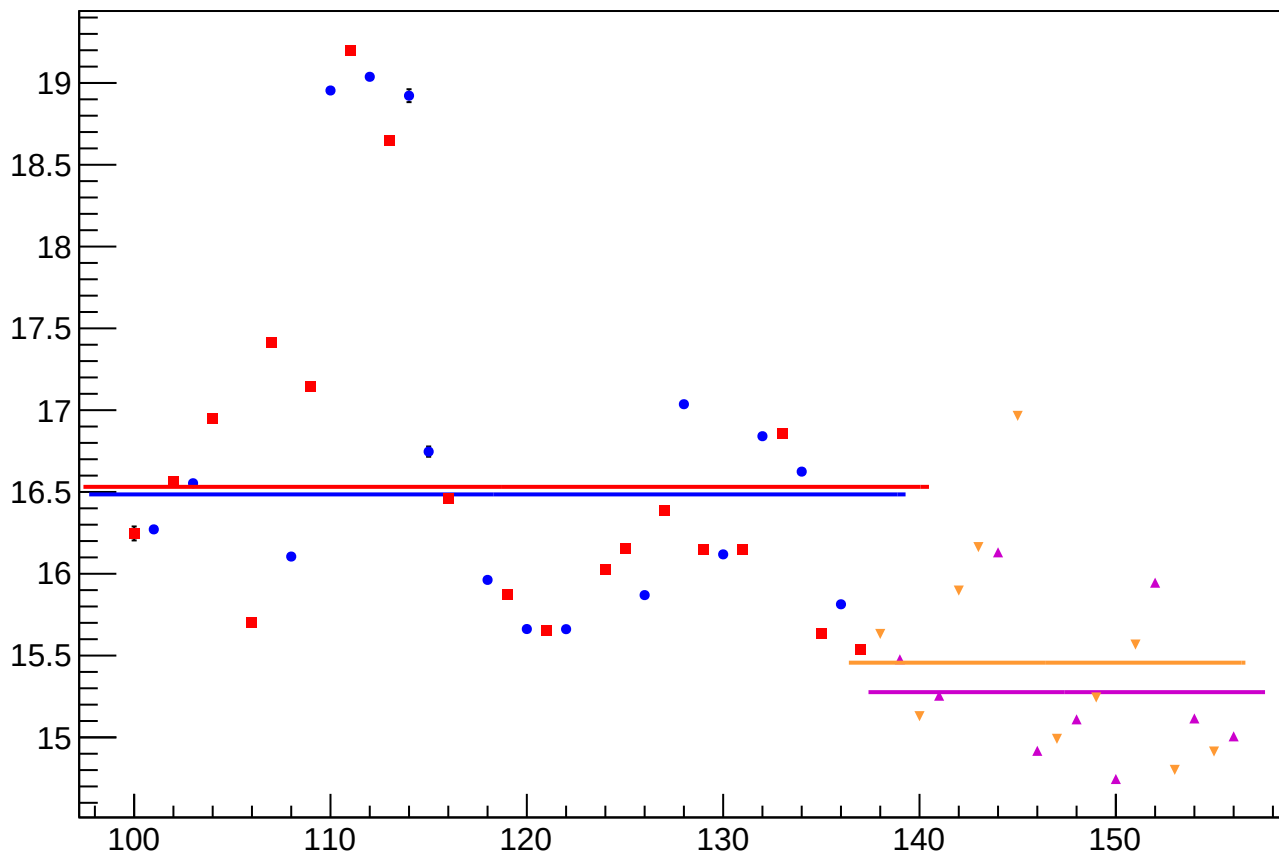
Right: 3.307 $\pm$ 4.306 χ^2 /NDF: 19.7/34

In: 2.243 $\pm$ 4.082 χ^2 /NDF:12.7/24

Out: 1.739 $\pm$ 4.078 χ^2 /NDF:20.1/28

All: 1.991 $\pm$ 2.885 χ^2 /NDF: 32.9/53

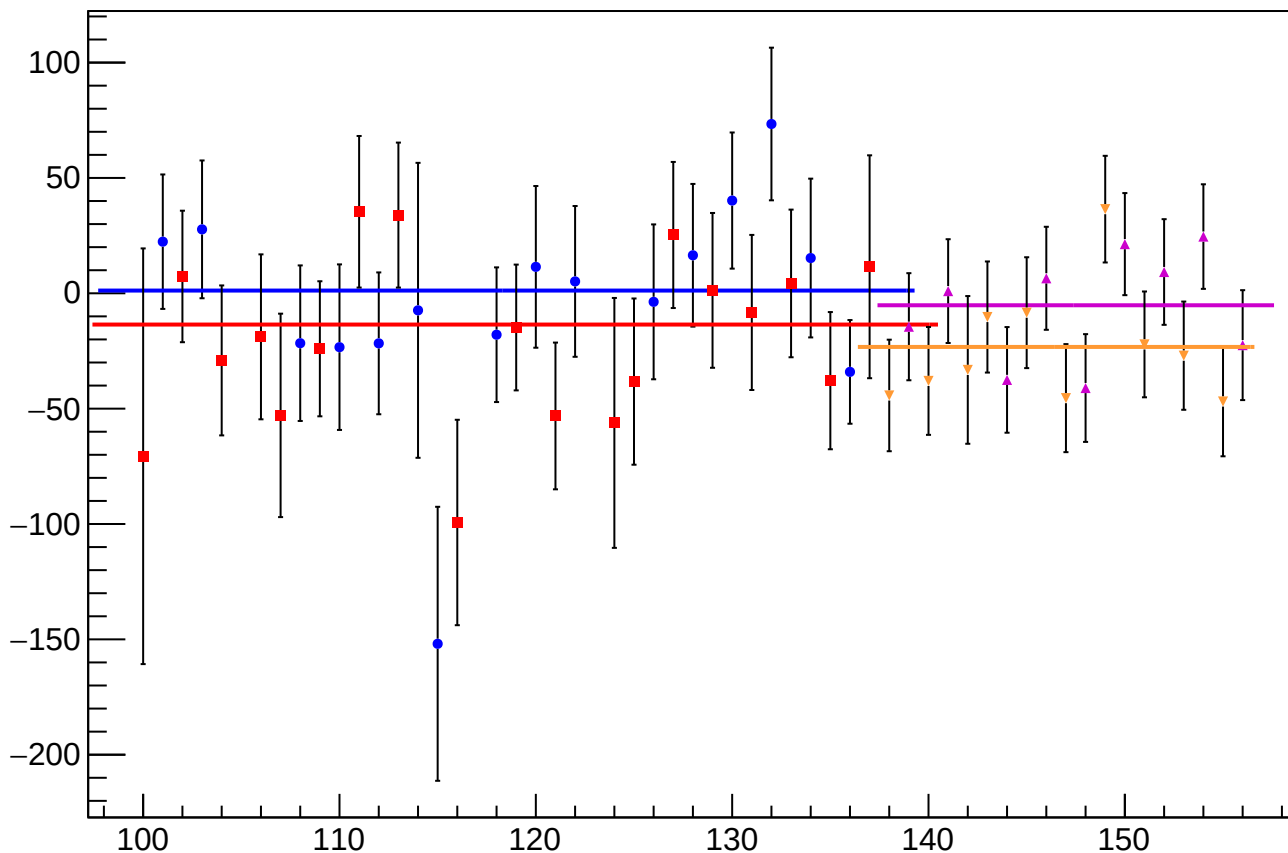
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Left: 15.365 $\pm$ 0.003 χ^2/NDF : 38736.1/18
 Right: 16.509 $\pm$ 0.003 χ^2/NDF : 93717.6/34
 In: 15.811 $\pm$ 0.003 χ^2/NDF : 103102.8/24
 Out: 15.946 $\pm$ 0.003 χ^2/NDF : 105931.5/28
 All: 15.879 $\pm$ 0.002 χ^2/NDF : 210131.2/53

Right In: 16.485 $\pm$ 0.004 χ^2/NDF : 47186.1/15
 Left Out: 15.457 $\pm$ 0.004 χ^2/NDF : 25008.5/9
 Right Out: 16.531 $\pm$ 0.004 χ^2/NDF : 46474.0/18
 Left In: 15.276 $\pm$ 0.004 χ^2/NDF : 12653.5/8

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: -23.250 ± 7.633 $\chi^2/\text{NDF}: 10.5/9$

Right Out: -13.549 ± 7.915 $\chi^2/\text{NDF}: 15.9/18$

Left In: -5.187 ± 7.616 $\chi^2/\text{NDF}: 8.9/8$

Left: -14.198 ± 5.392 $\chi^2/\text{NDF}: 22.3/18$

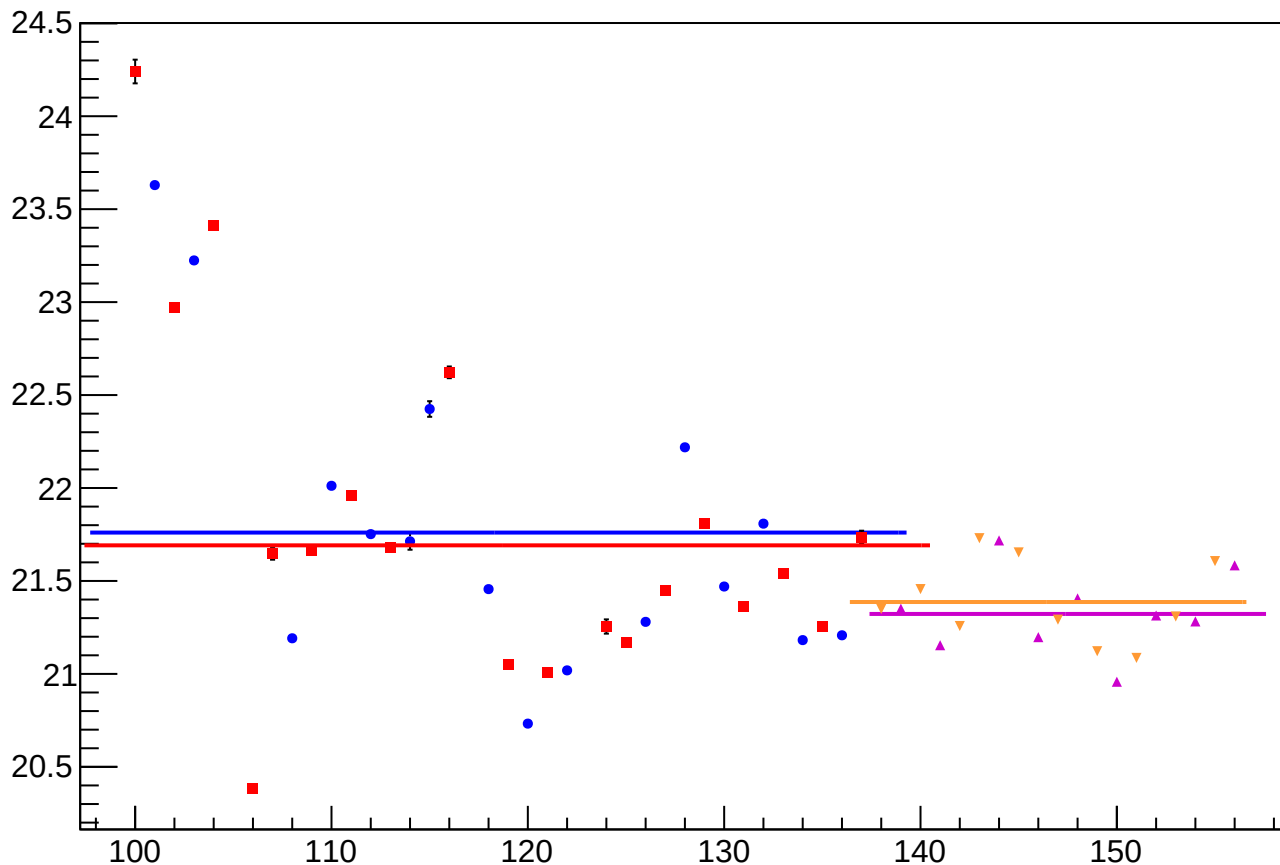
Right: -6.341 ± 5.657 $\chi^2/\text{NDF}: 37.0/34$

In: -2.193 ± 5.545 $\chi^2/\text{NDF}: 28.7/24$

Out: -18.575 ± 5.494 $\chi^2/\text{NDF}: 27.2/28$

All: -10.458 ± 3.903 $\chi^2/\text{NDF}: 60.3/53$

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: 21.387 $\pm$ 0.005 χ^2/NDF :1541.2/9

Right Out: 21.692 $\pm$ 0.006 χ^2/NDF : 18330.7/18

Left In: 21.323 $\pm$ 0.005 χ^2/NDF :1590.5/8

Left: 21.355 $\pm$ 0.004 χ^2/NDF : 3202.6/18

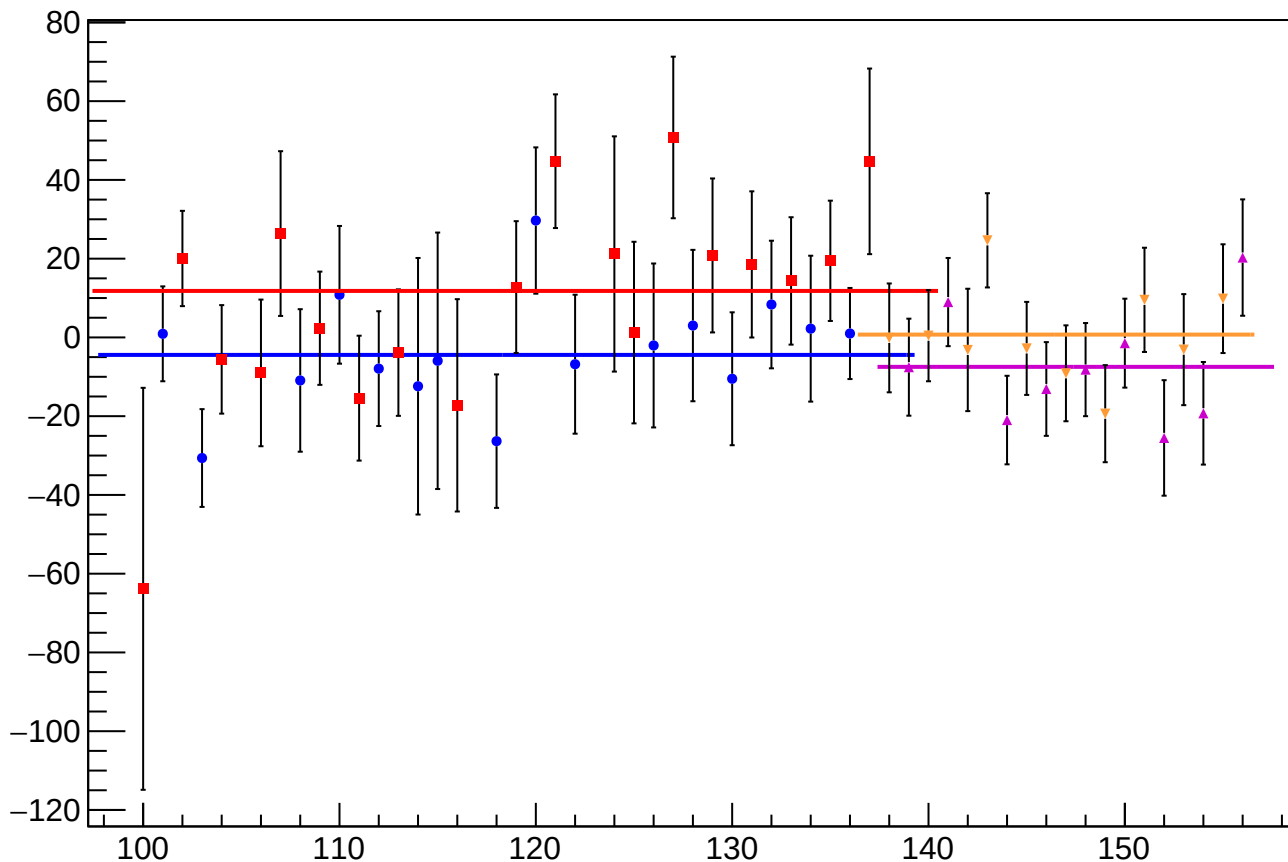
Right: 21.725 $\pm$ 0.004 χ^2/NDF : 38150.0/34

In: 21.528 $\pm$ 0.004 χ^2/NDF :24441.4/24

Out: 21.534 $\pm$ 0.004 χ^2/NDF :21408.9/28

All: 21.531 $\pm$ 0.003 χ^2/NDF : 45851.2/53

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: 0.719 ± 4.073 χ^2/NDF : 8.4/9

Right Out: 11.807 ± 4.097 χ^2/NDF : 21.7/18

Left In: -7.475 ± 4.095 χ^2/NDF : 10.0/8

Left: -3.356 ± 2.888 χ^2/NDF : 20.4/18

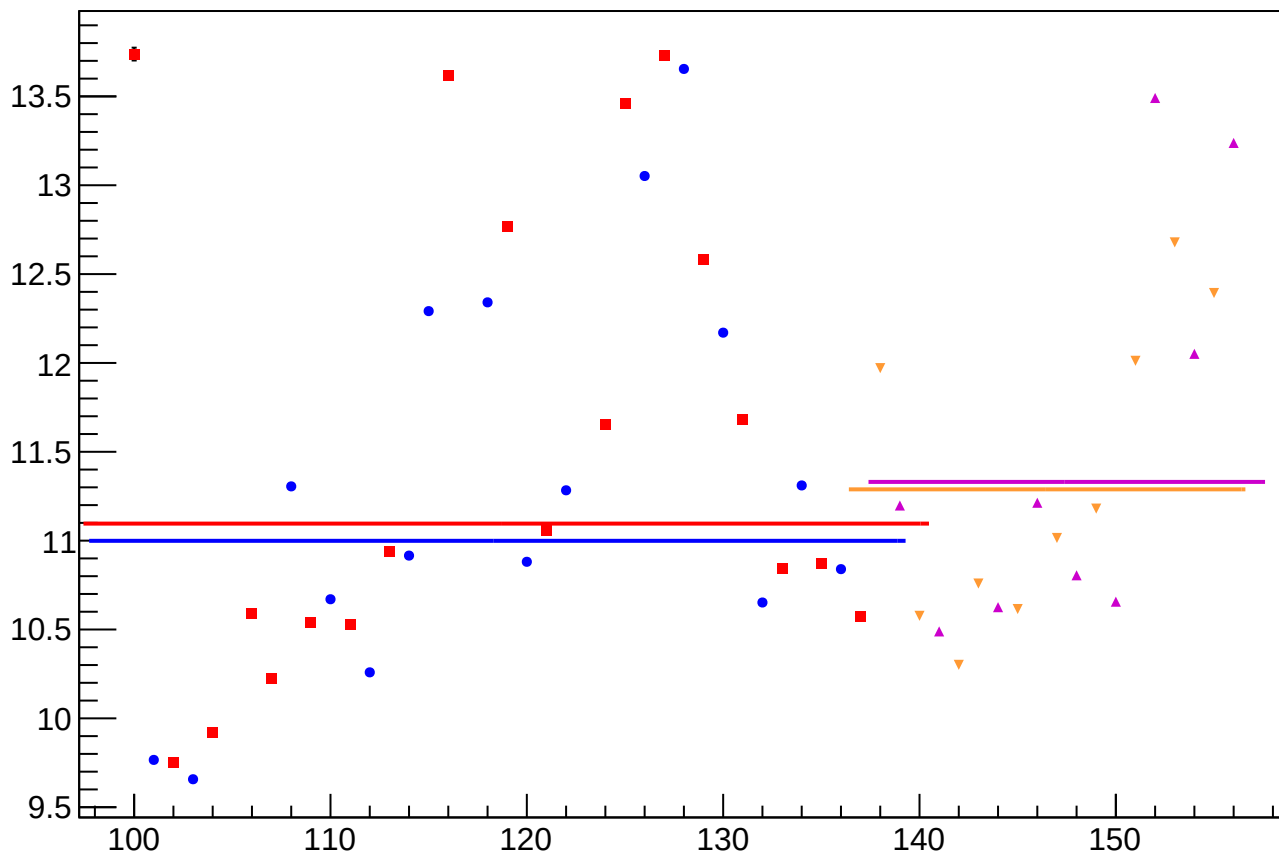
Right: 3.749 ± 2.909 χ^2/NDF : 41.5/34

In: -5.971 ± 2.908 χ^2/NDF : 22.2/24

Out: 6.229 ± 2.889 χ^2/NDF : 33.8/28

All: 0.170 ± 2.049 χ^2/NDF : 64.9/53

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.999 ± 0.003 $\chi^2/\text{NDF}: 136159.2/15$

Left Out: 11.289 ± 0.003 $\chi^2/\text{NDF}: 70303.3/9$

Right Out: 11.096 ± 0.003 $\chi^2/\text{NDF}: 162908.7/18$

Left In: 11.331 ± 0.003 $\chi^2/\text{NDF}: 113500.1/8$

Left: 11.309 ± 0.002 $\chi^2/\text{NDF}: 183908.6/18$

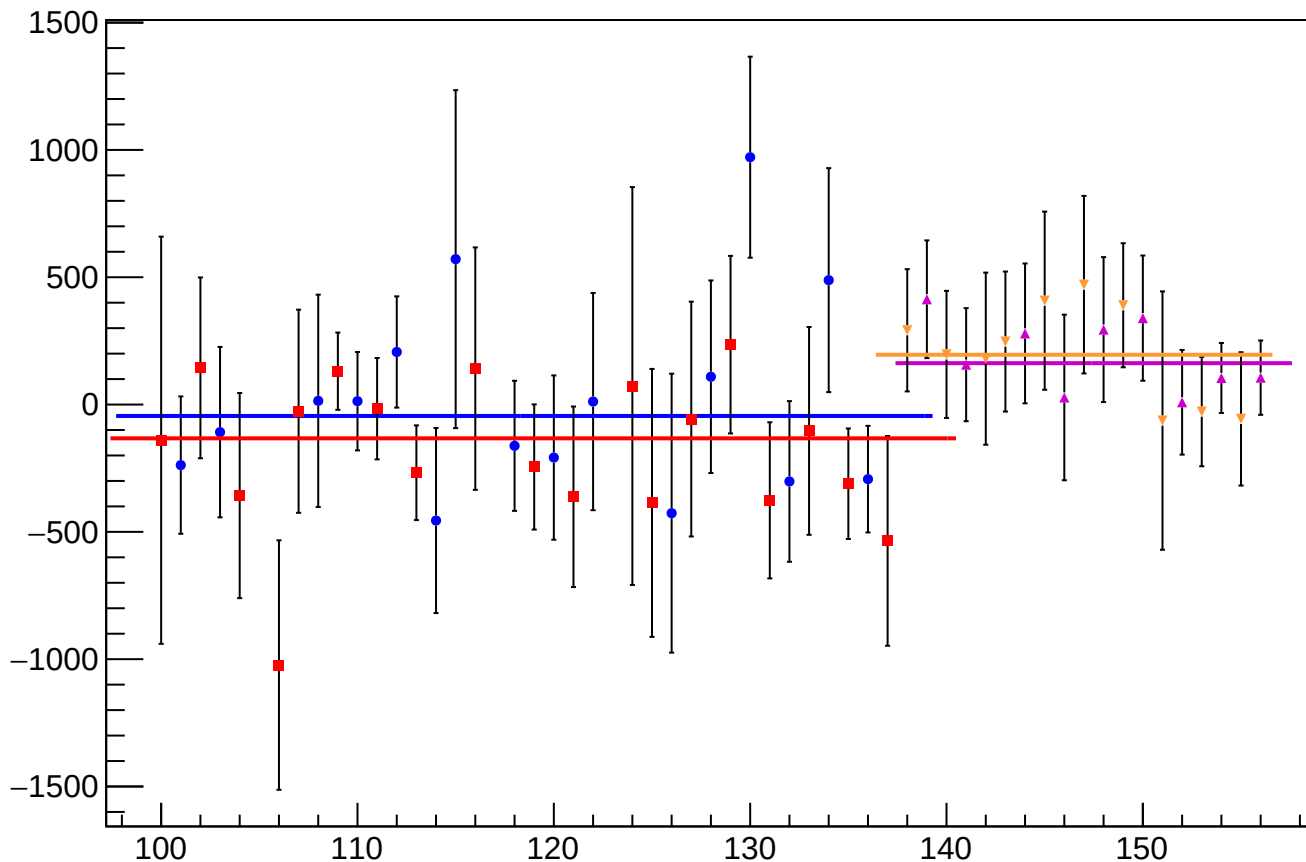
Right: 11.048 ± 0.002 $\chi^2/\text{NDF}: 299622.8/34$

In: 11.166 ± 0.002 $\chi^2/\text{NDF}: 256156.6/24$

Out: 11.193 ± 0.002 $\chi^2/\text{NDF}: 235437.3/28$

All: 11.180 ± 0.001 $\chi^2/\text{NDF}: 491678.3/53$

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: 195.544 $\pm$ 88.119 χ^2 /NDF: 4.1/9

Right Out: -132.730 $\pm$ 68.270 χ^2 /NDF: 12.9/18

Left In: 162.618 $\pm$ 68.338 χ^2 /NDF: 3.2/8

Left: 174.983 $\pm$ 54.002 χ^2 /NDF: 7.3/18

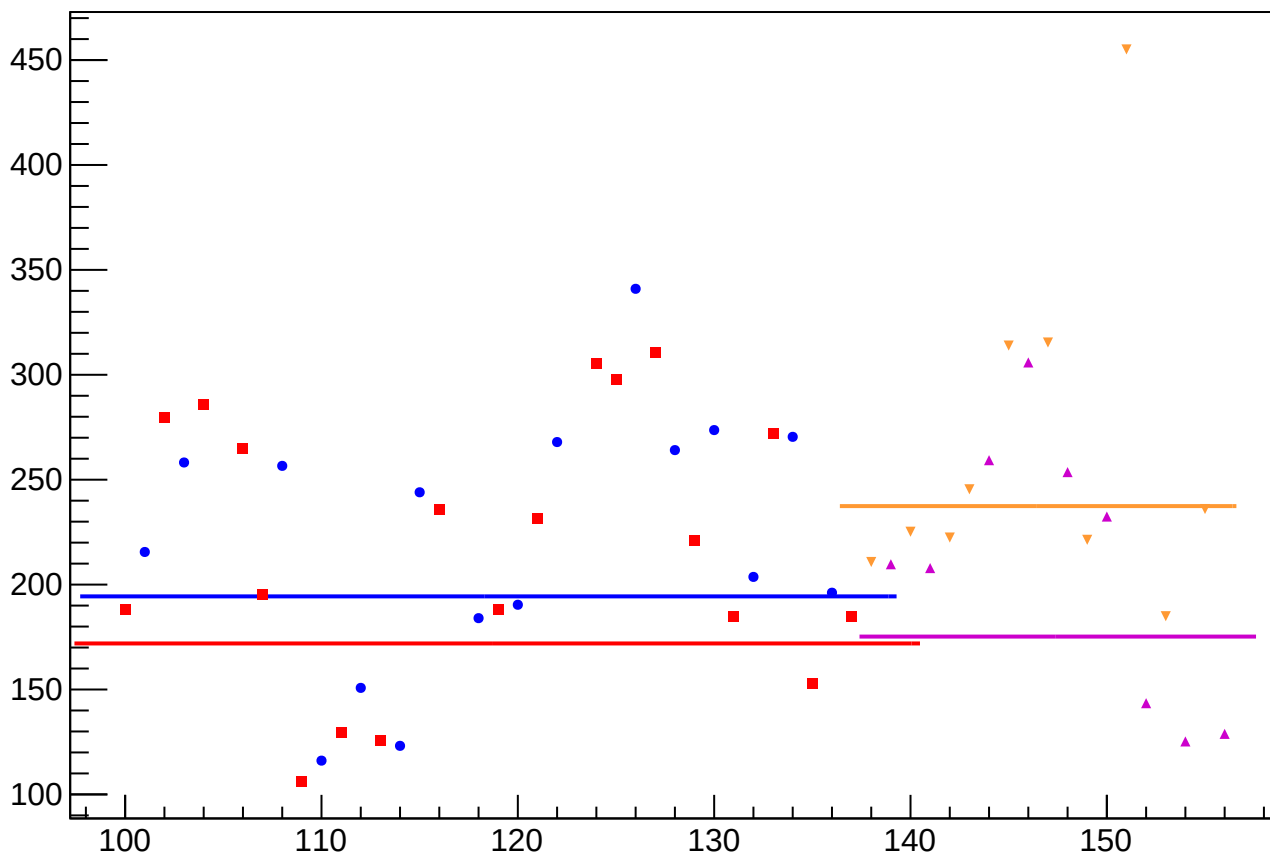
Right: -93.703 $\pm$ 50.914 χ^2 /NDF: 29.0/34

In: 70.459 $\pm$ 50.942 χ^2 /NDF: 22.7/24

Out: -9.598 $\pm$ 53.968 χ^2 /NDF: 25.6/28

All: 32.738 $\pm$ 37.045 χ^2 /NDF: 49.5/53

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.385+/-0.054 χ^2/NDF : 1042024.1/15

Left Out: 237.412+/-0.062 χ^2/NDF : 727042.1/9

Right Out: 171.949+/-0.048 χ^2/NDF : 1651343.7/18

Left In: 175.224+/-0.048 χ^2/NDF : 1371974.0/8

Left: 198.579+/-0.038 χ^2/NDF : 2721026.8/18

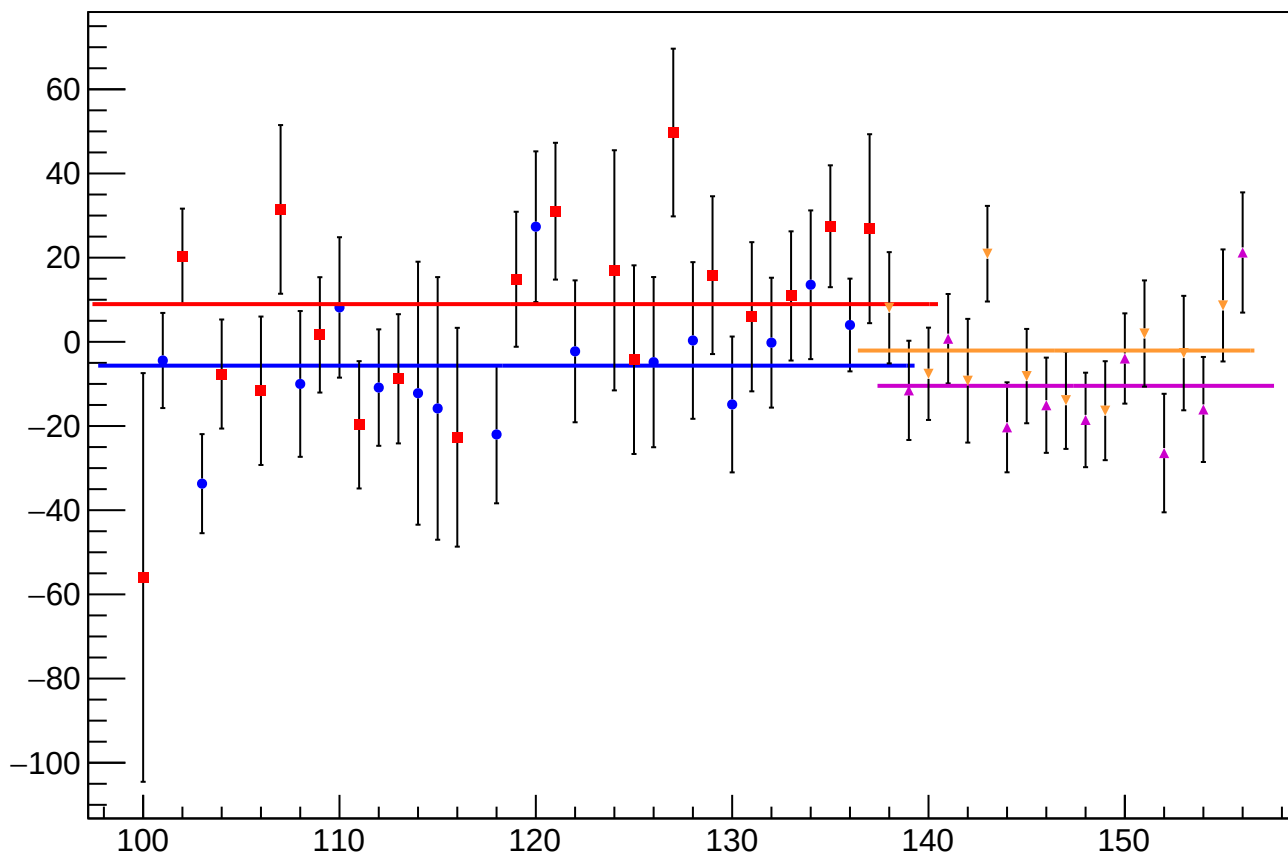
Right: 181.907+/-0.036 χ^2/NDF : 2789239.1/34

In: 183.738+/-0.036 χ^2/NDF : 2483858.7/24

Out: 196.503+/-0.038 χ^2/NDF : 3068161.1/28

All: 189.753+/-0.026 χ^2/NDF : 5611197.0/53

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: -2.067+/-3.880 χ^2/NDF : 8.7/9

Right Out: 8.960+/-3.901 χ^2/NDF : 22.8/18

Left In: -10.452+/-3.904 χ^2/NDF : 9.4/8

Left: -6.234+/-2.752 χ^2/NDF : 20.5/18

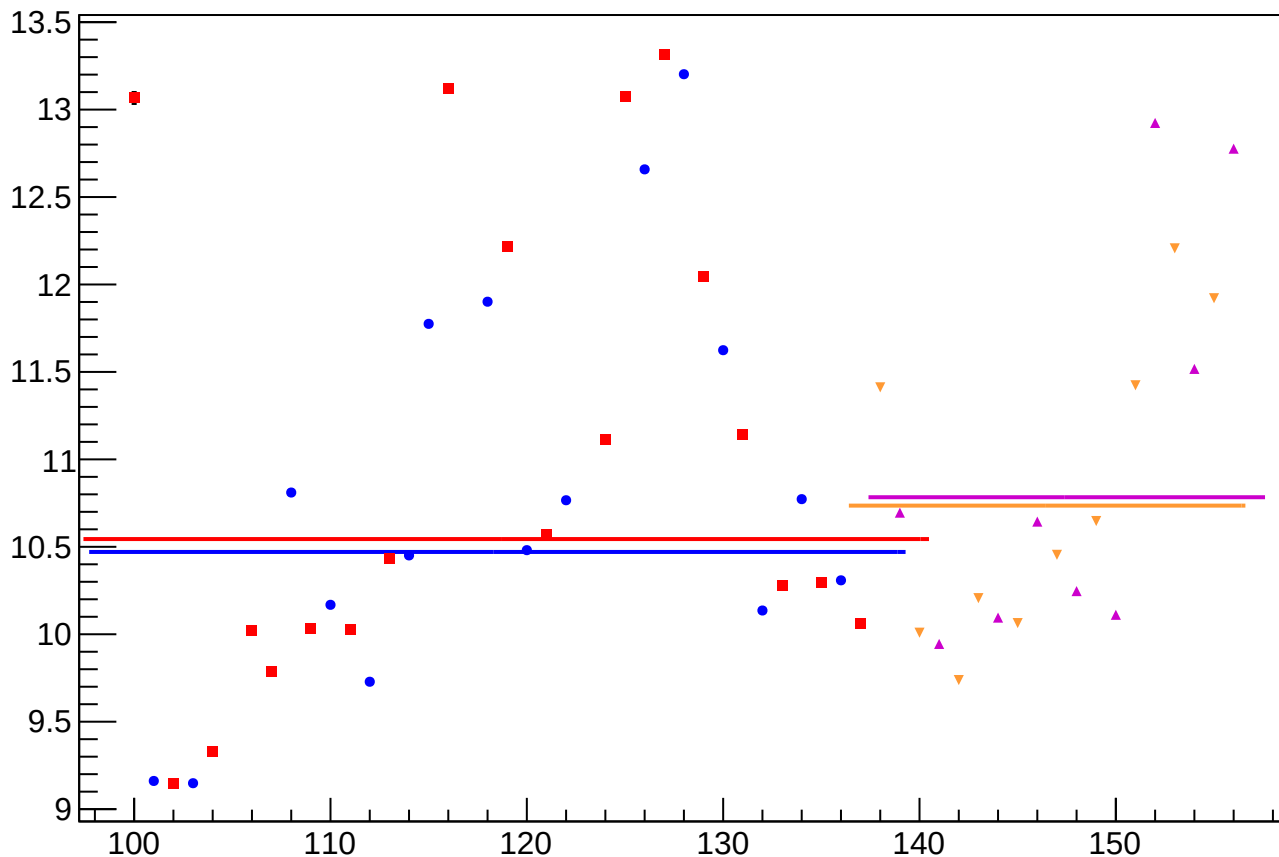
Right: 1.723+/-2.772 χ^2/NDF : 43.4/34

In: -8.076+/-2.773 χ^2/NDF : 23.9/24

Out: 3.417+/-2.751 χ^2/NDF : 35.6/28

All: -2.284+/-1.953 χ^2/NDF : 68.1/53

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.471 $\pm$ 0.003 χ^2/NDF : 157365.8/15

Left Out: 10.736 $\pm$ 0.003 χ^2/NDF : 81288.5/9

Right Out: 10.544 $\pm$ 0.003 χ^2/NDF : 186780.3/18

Left In: 10.784 $\pm$ 0.003 χ^2/NDF : 125669.1/8

Left: 10.759 $\pm$ 0.002 χ^2/NDF : 207109.3/18

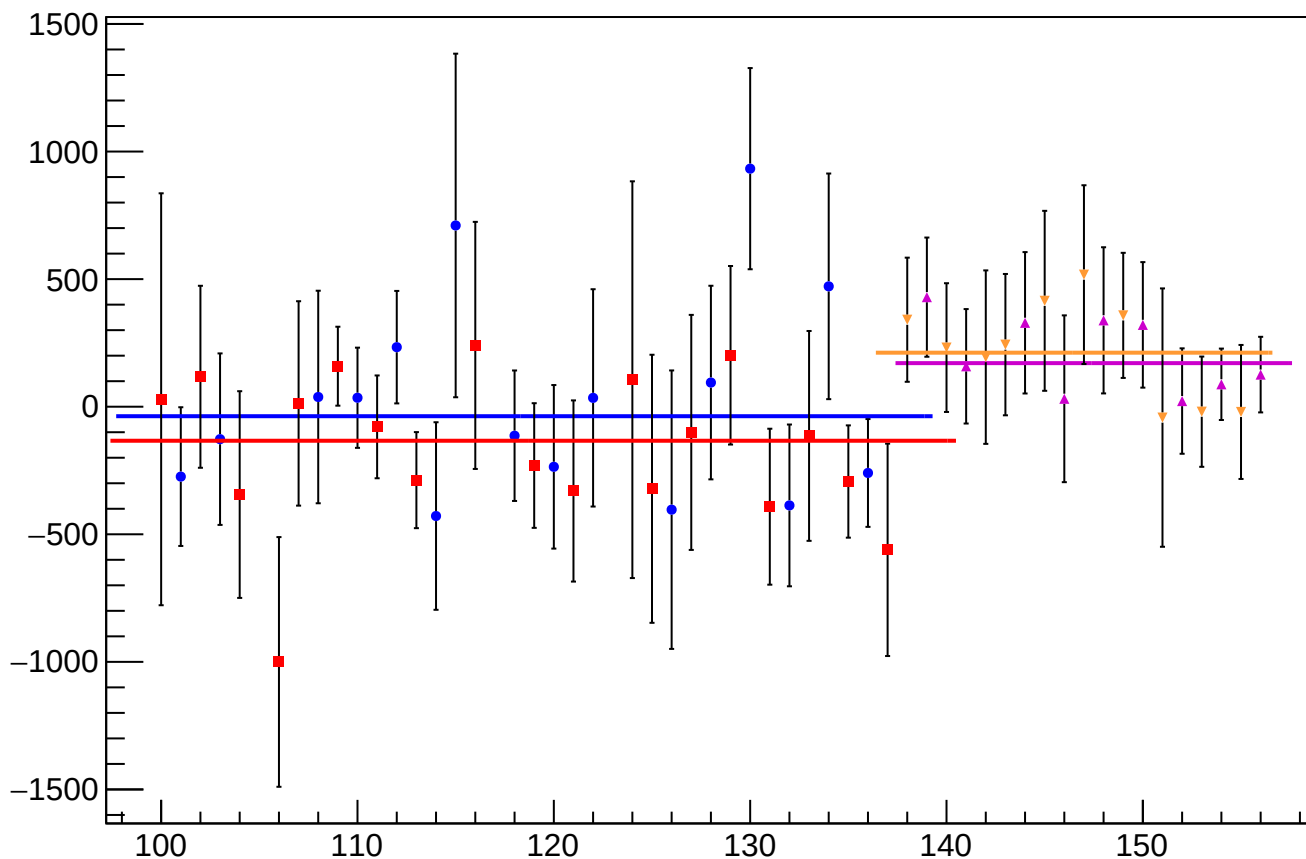
Right: 10.508 $\pm$ 0.002 χ^2/NDF : 344500.1/34

In: 10.628 $\pm$ 0.002 χ^2/NDF : 289401.9/24

Out: 10.640 $\pm$ 0.002 χ^2/NDF : 270484.5/28

All: 10.635 $\pm$ 0.001 χ^2/NDF : 559905.4/53

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.241 ± 76.915 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 211.731 ± 88.749 $\chi^2/\text{NDF}: 3.9/9$

Right Out: -133.386 ± 68.885 $\chi^2/\text{NDF}: 12.9/18$

Left In: 170.776 ± 69.106 $\chi^2/\text{NDF}: 3.4/8$

Left: 186.235 ± 54.526 $\chi^2/\text{NDF}: 7.5/18$

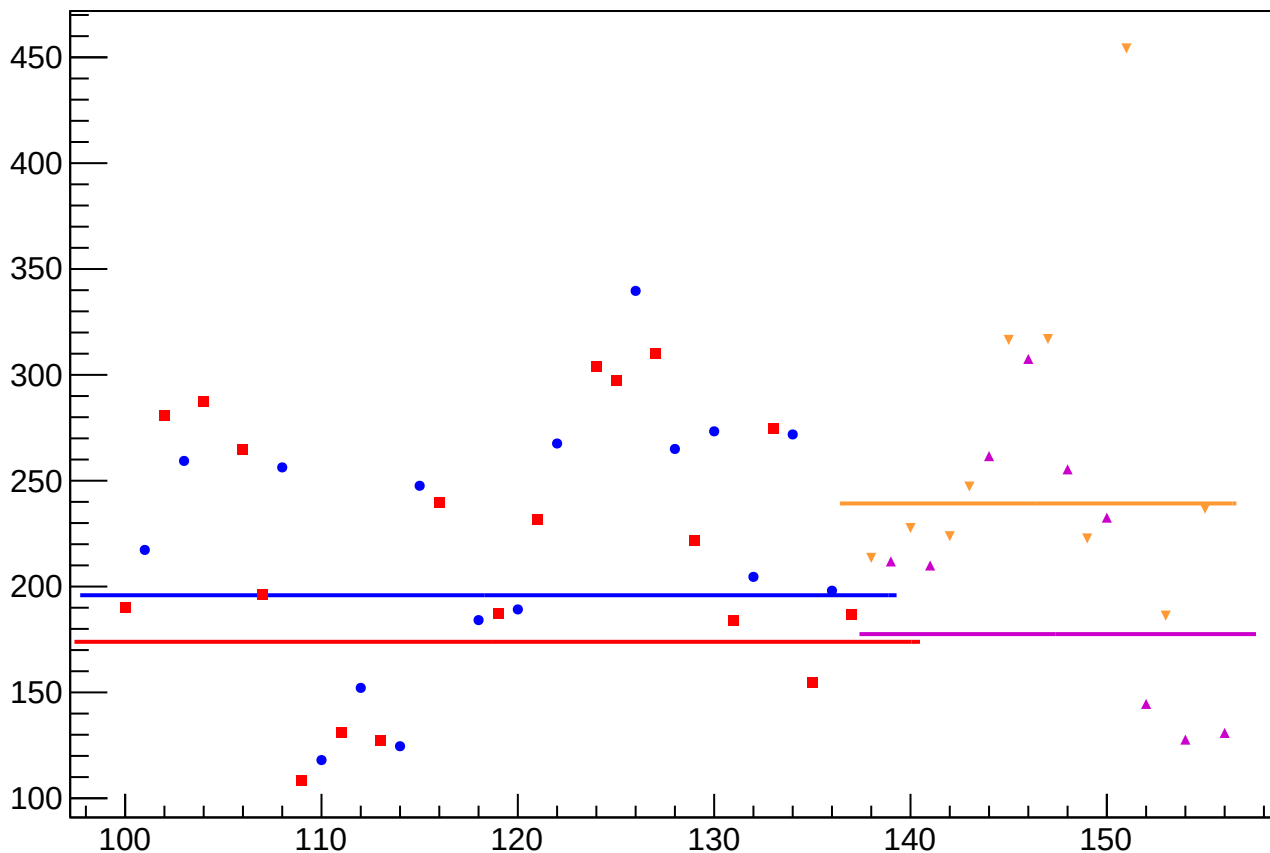
Right: -90.593 ± 51.314 $\chi^2/\text{NDF}: 29.4/34$

In: 77.860 ± 51.405 $\chi^2/\text{NDF}: 23.1/24$

Out: -3.637 ± 54.417 $\chi^2/\text{NDF}: 26.3/28$

All: 39.429 ± 37.368 $\chi^2/\text{NDF}: 50.6/53$

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: 239.247 $\pm$ 0.063 χ^2/NDF : 716880.6/9

Right Out: 173.901 $\pm$ 0.049 χ^2/NDF : 1599608.1/18

Left In: 177.543 $\pm$ 0.049 χ^2/NDF : 1336299.0/8

Left: 200.834 $\pm$ 0.039 χ^2/NDF : 2655032.7/18

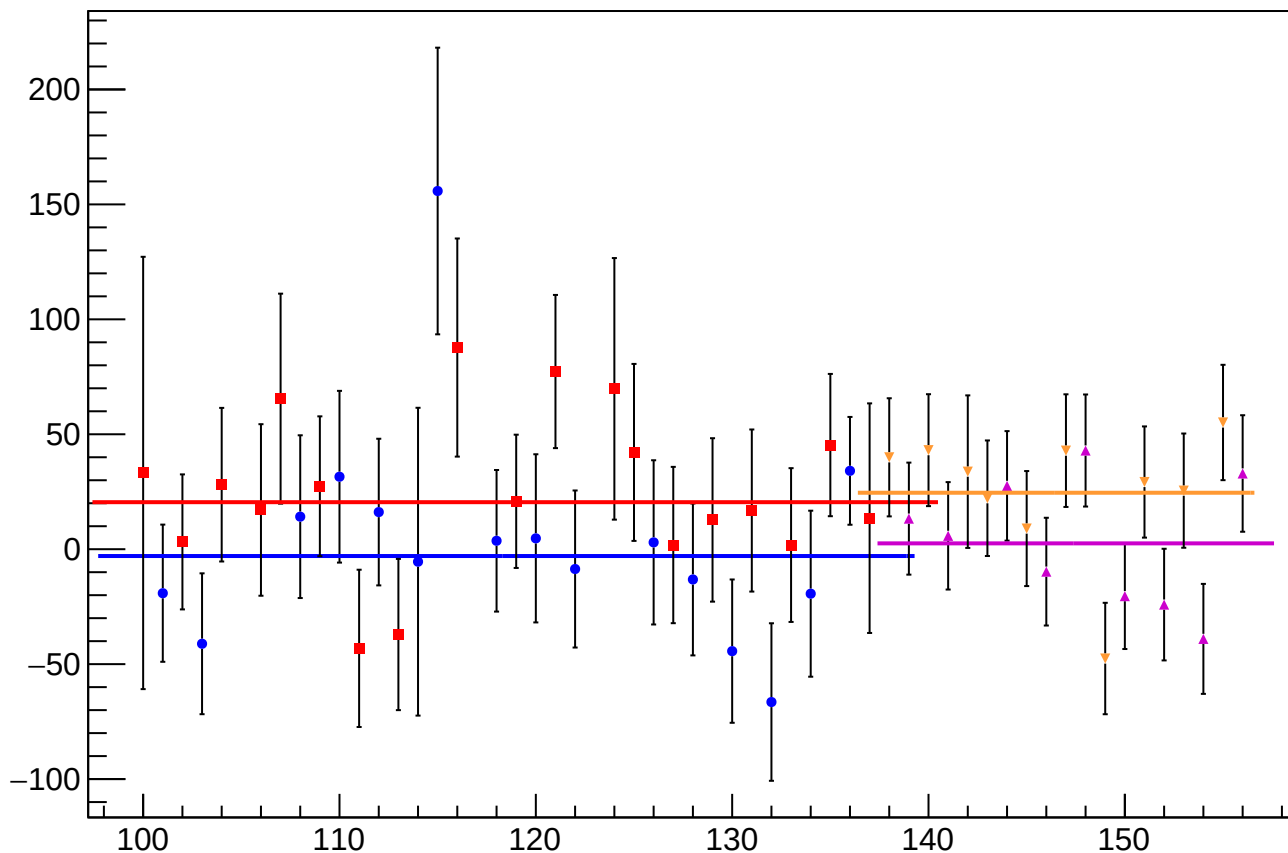
Right: 183.693 $\pm$ 0.036 χ^2/NDF : 2701402.5/34

In: 185.743 $\pm$ 0.036 χ^2/NDF : 2410344.3/24

Out: 198.469 $\pm$ 0.038 χ^2/NDF : 2993108.4/28

All: 191.744 $\pm$ 0.026 χ^2/NDF : 5461254.5/53

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.967 ± 8.454 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 24.562 ± 8.012 $\chi^2/\text{NDF}: 12.3/9$

Right Out: 20.457 ± 8.292 $\chi^2/\text{NDF}: 15.3/18$

Left In: 2.539 ± 7.988 $\chi^2/\text{NDF}: 11.0/8$

Left: 13.517 ± 5.657 $\chi^2/\text{NDF}: 27.1/18$

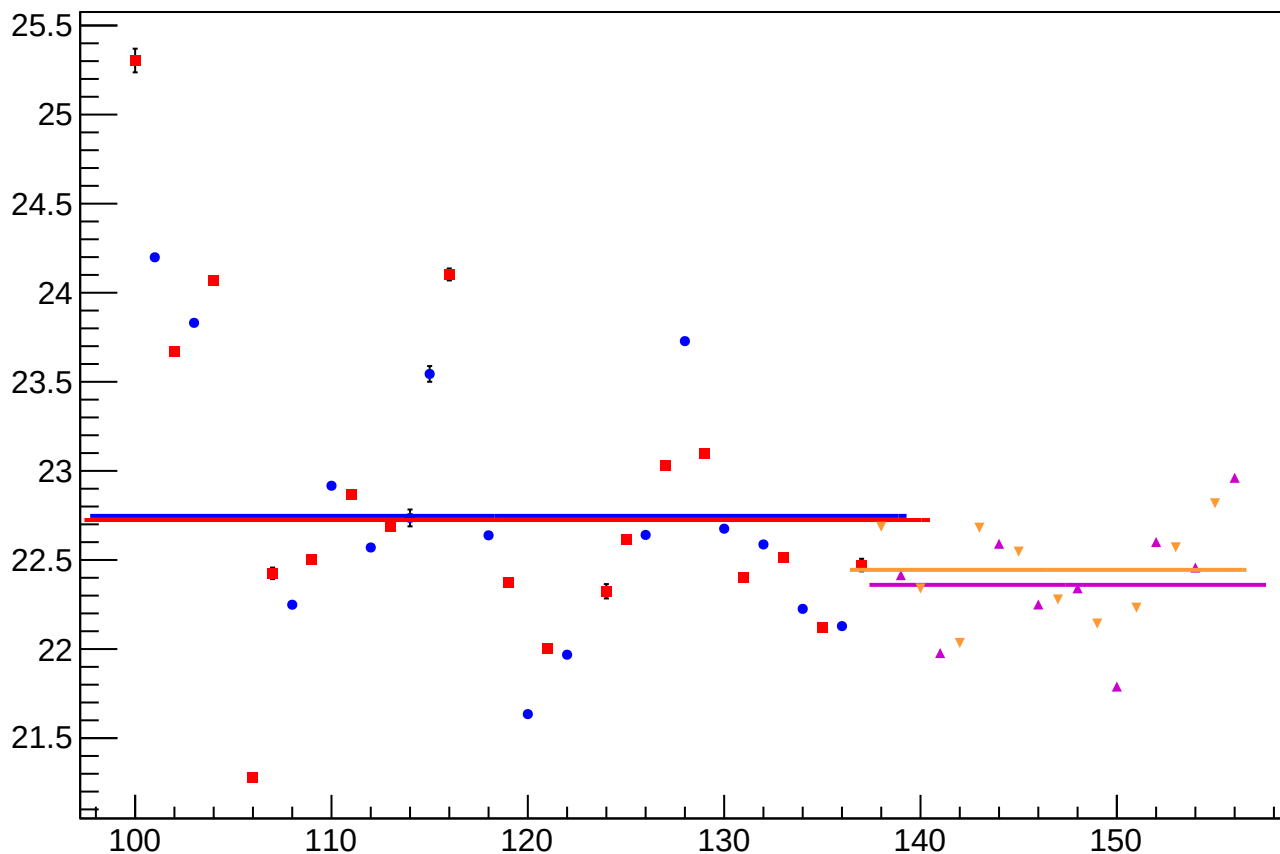
Right: 8.972 ± 5.920 $\chi^2/\text{NDF}: 37.1/34$

In: -0.058 ± 5.806 $\chi^2/\text{NDF}: 29.1/24$

Out: 22.580 ± 5.762 $\chi^2/\text{NDF}: 27.8/28$

All: 11.348 ± 4.090 $\chi^2/\text{NDF}: 64.6/53$

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: 22.445 $\pm$ 0.006 χ^2 /NDF:1781.3/9

Right Out: 22.724 $\pm$ 0.006 χ^2 /NDF: 14490.6/18

Left In: 22.360 $\pm$ 0.006 χ^2 /NDF:3365.1/8

Left: 22.402 $\pm$ 0.004 χ^2 /NDF: 5257.2/18

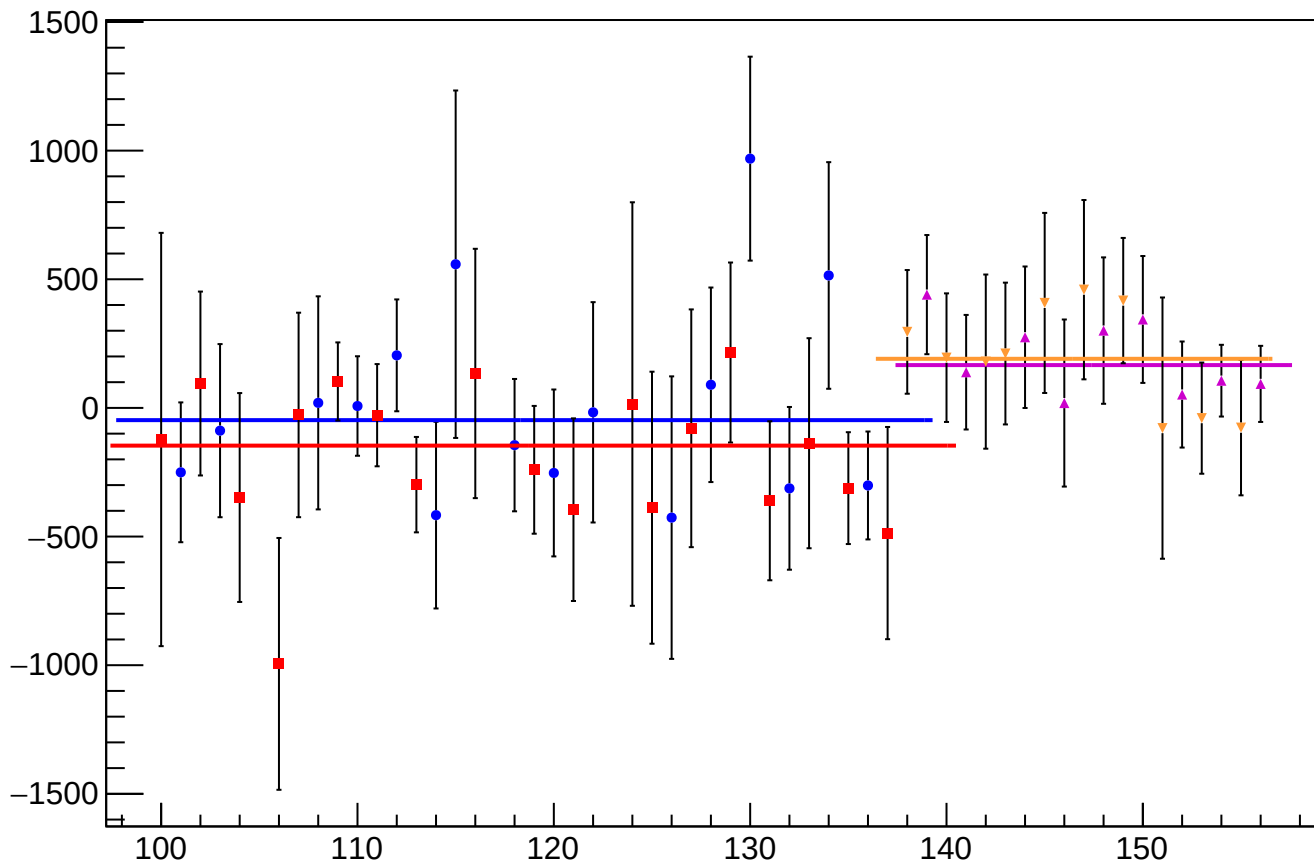
Right: 22.736 $\pm$ 0.004 χ^2 /NDF: 29121.1/34

In: 22.543 $\pm$ 0.004 χ^2 /NDF:20203.6/24

Out: 22.580 $\pm$ 0.004 χ^2 /NDF:17448.6/28

All: 22.561 $\pm$ 0.003 χ^2 /NDF: 37692.3/53

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -47.523 ± 76.571 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 190.885 ± 88.307 $\chi^2/\text{NDF}: 4.5/9$

Right Out: -146.573 ± 68.398 $\chi^2/\text{NDF}: 11.6/18$

Left In: 166.442 ± 68.838 $\chi^2/\text{NDF}: 3.3/8$

Left: 175.681 ± 54.291 $\chi^2/\text{NDF}: 7.8/18$

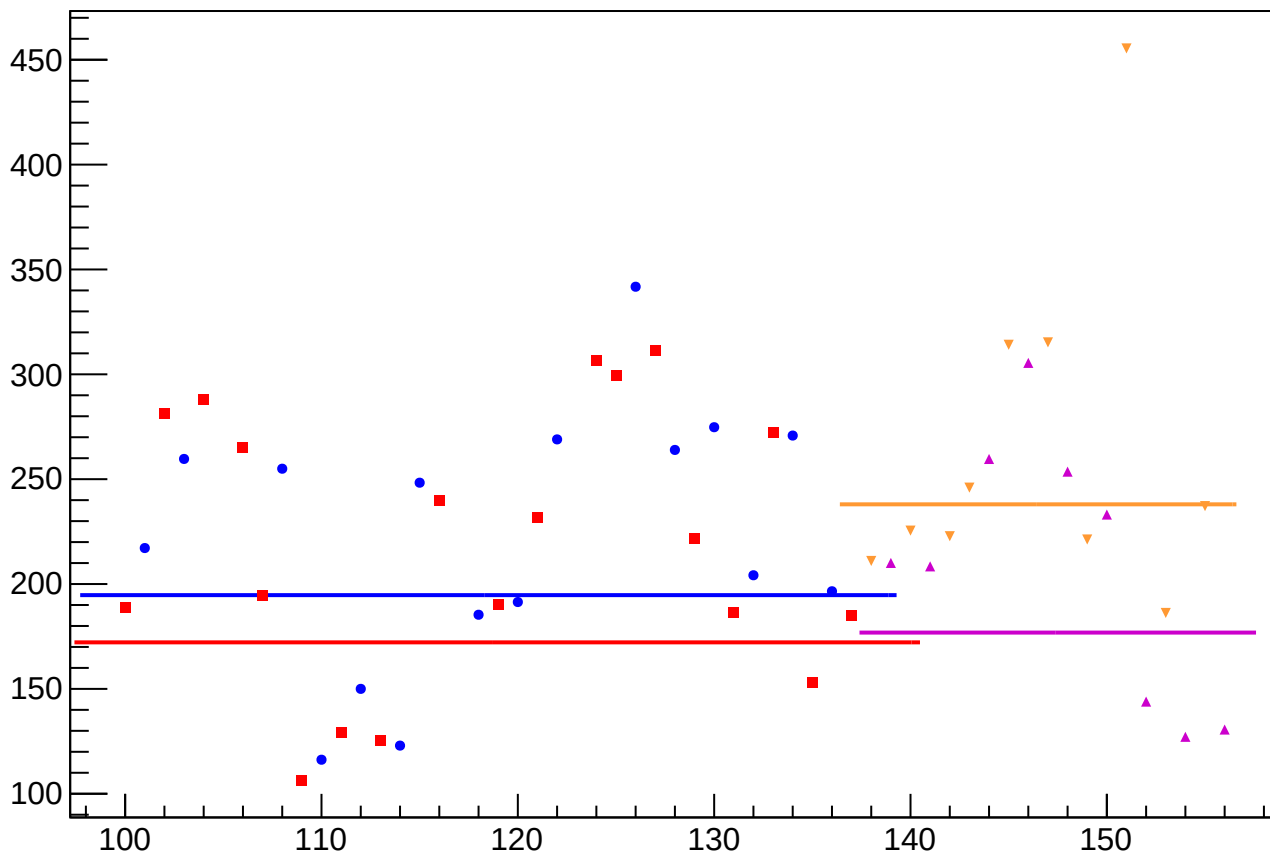
Right: -102.614 ± 51.010 $\chi^2/\text{NDF}: 27.9/34$

In: 70.806 ± 51.192 $\chi^2/\text{NDF}: 23.0/24$

Out: -20.037 ± 54.075 $\chi^2/\text{NDF}: 25.2/28$

All: 27.871 ± 37.176 $\chi^2/\text{NDF}: 49.7/53$

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: 238.005 $\pm$ 0.062 χ^2 /NDF: 719832.1/9

Right Out: 172.186 $\pm$ 0.048 χ^2 /NDF: 1671068.3/18

Left In: 176.850 $\pm$ 0.049 χ^2 /NDF: 1326701.6/8

Left: 199.965 $\pm$ 0.038 χ^2 /NDF: 2643178.2/18

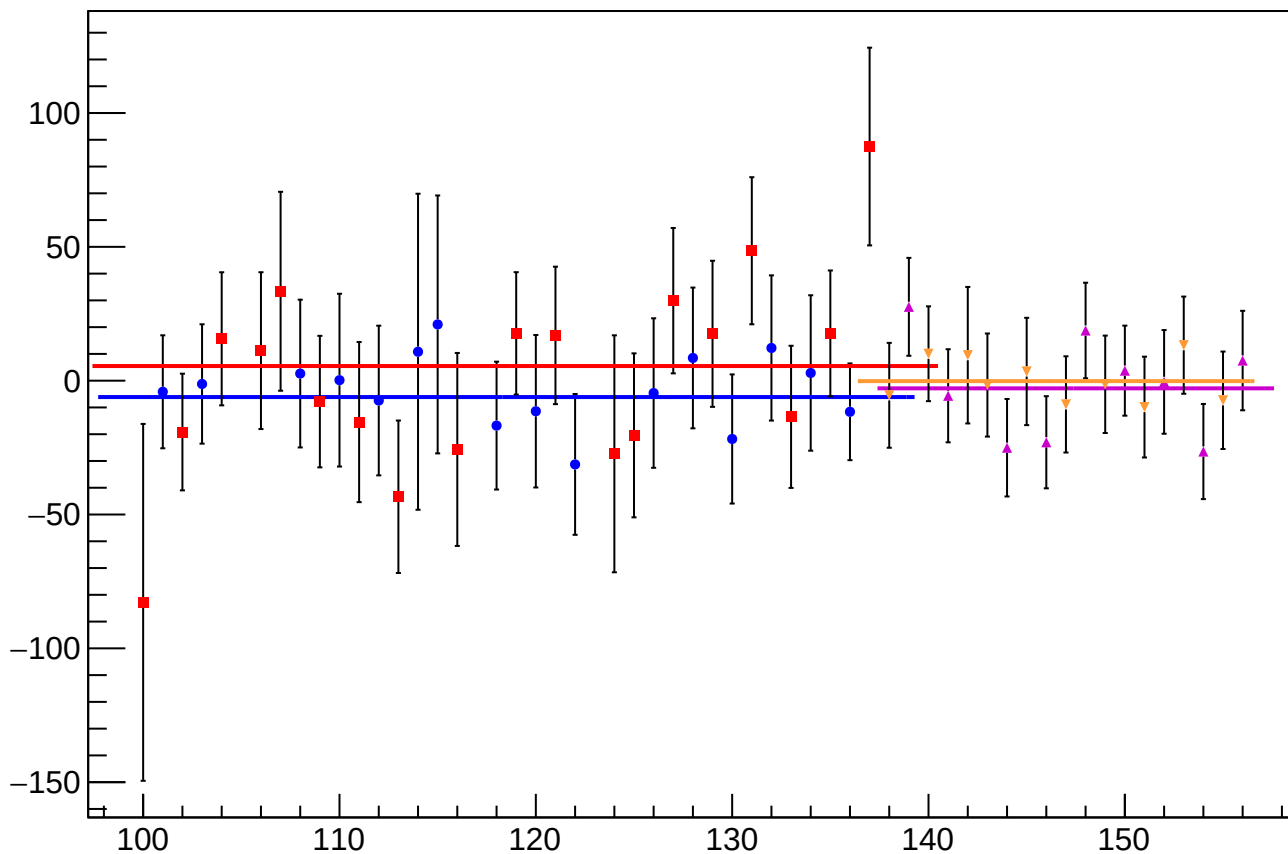
Right: 182.181 $\pm$ 0.036 χ^2 /NDF: 2819594.0/34

In: 184.832 $\pm$ 0.036 χ^2 /NDF: 2439153.0/24

Out: 196.866 $\pm$ 0.038 χ^2 /NDF: 3085359.1/28

All: 190.520 $\pm$ 0.026 χ^2 /NDF: 5576752.3/53

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.119 ± 6.592 χ^2/NDF : 3.1/15

Left Out: -0.164 ± 6.030 χ^2/NDF : 1.8/9

Right Out: 5.470 ± 6.509 χ^2/NDF : 19.2/18

Left In: -2.865 ± 5.967 χ^2/NDF : 9.4/8

Left: -1.529 ± 4.241 χ^2/NDF : 11.3/18

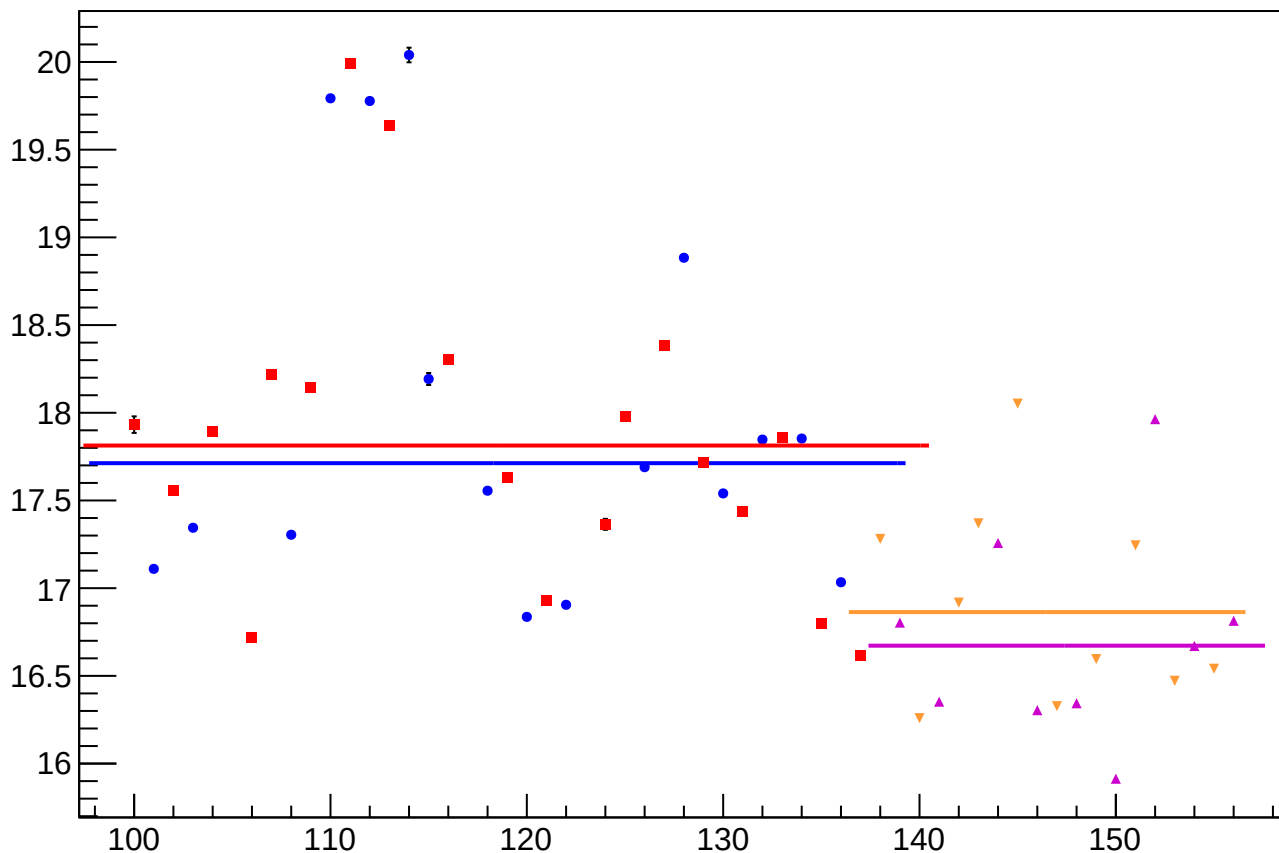
Right: -0.251 ± 4.632 χ^2/NDF : 23.9/34

In: -4.330 ± 4.424 χ^2/NDF : 12.6/24

Out: 2.438 ± 4.423 χ^2/NDF : 21.4/28

All: -0.946 ± 3.128 χ^2/NDF : 35.2/53

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.713 $\pm$ 0.005 χ^2/NDF : 35983.5/15

Left Out: 16.864 $\pm$ 0.004 χ^2/NDF :16248.7/9

Right Out: 17.813 $\pm$ 0.005 χ^2/NDF : 32713.6/18

Left In: 16.672 $\pm$ 0.004 χ^2/NDF :17513.5/8

Left: 16.767 $\pm$ 0.003 χ^2/NDF : 34782.3/18

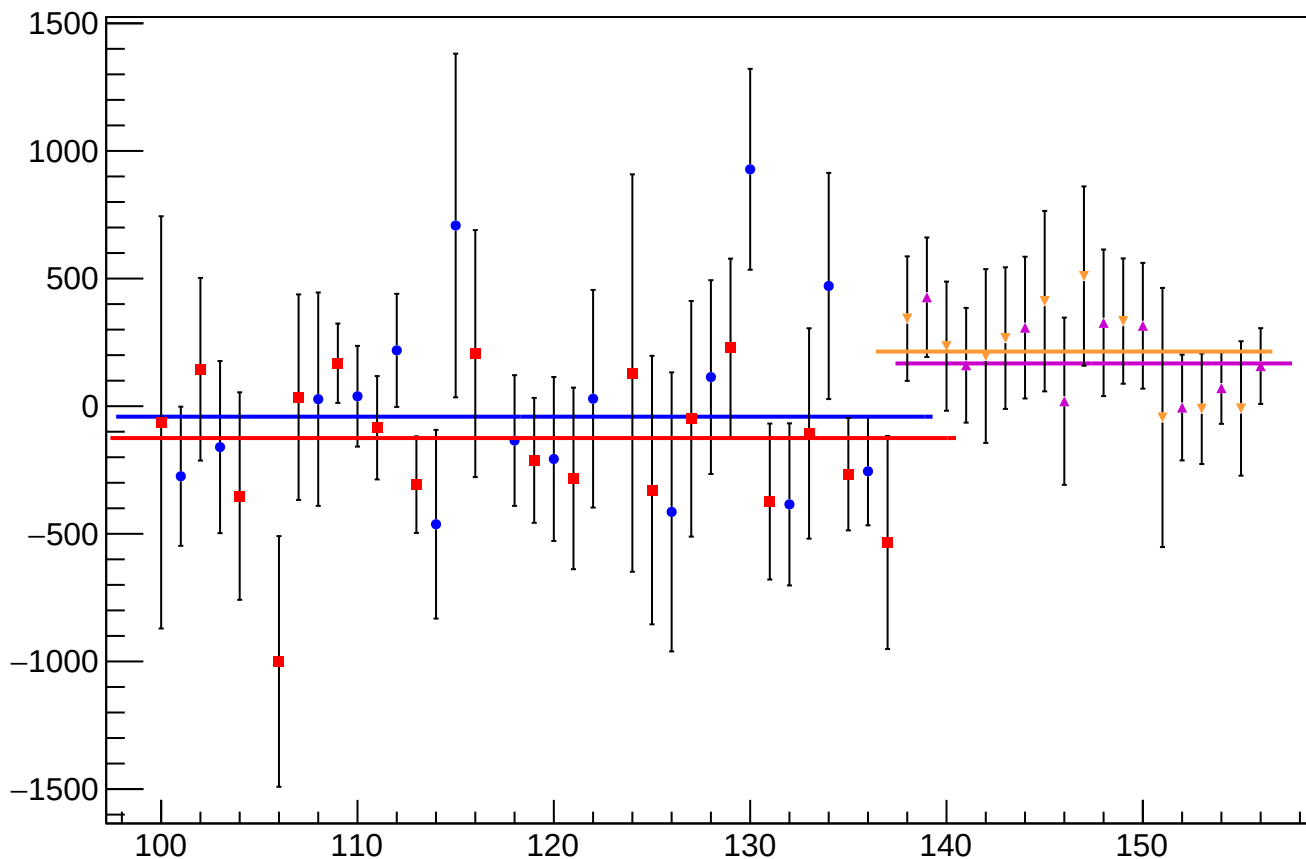
Right: 17.764 $\pm$ 0.003 χ^2/NDF : 68933.0/34

In: 17.141 $\pm$ 0.003 χ^2/NDF :80883.1/24

Out: 17.302 $\pm$ 0.003 χ^2/NDF :71867.3/28

All: 17.222 $\pm$ 0.002 χ^2/NDF : 154084.2/53

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.114+/-77.139 χ^2/NDF : 15.6/15

Left Out: 214.063+/-88.951 χ^2/NDF : 3.6/9

Right Out: -124.872+/-69.109 χ^2/NDF : 12.9/18

Left In: 167.454+/-69.250 χ^2/NDF : 3.5/8

Left: 185.043+/-54.643 χ^2/NDF : 7.3/18

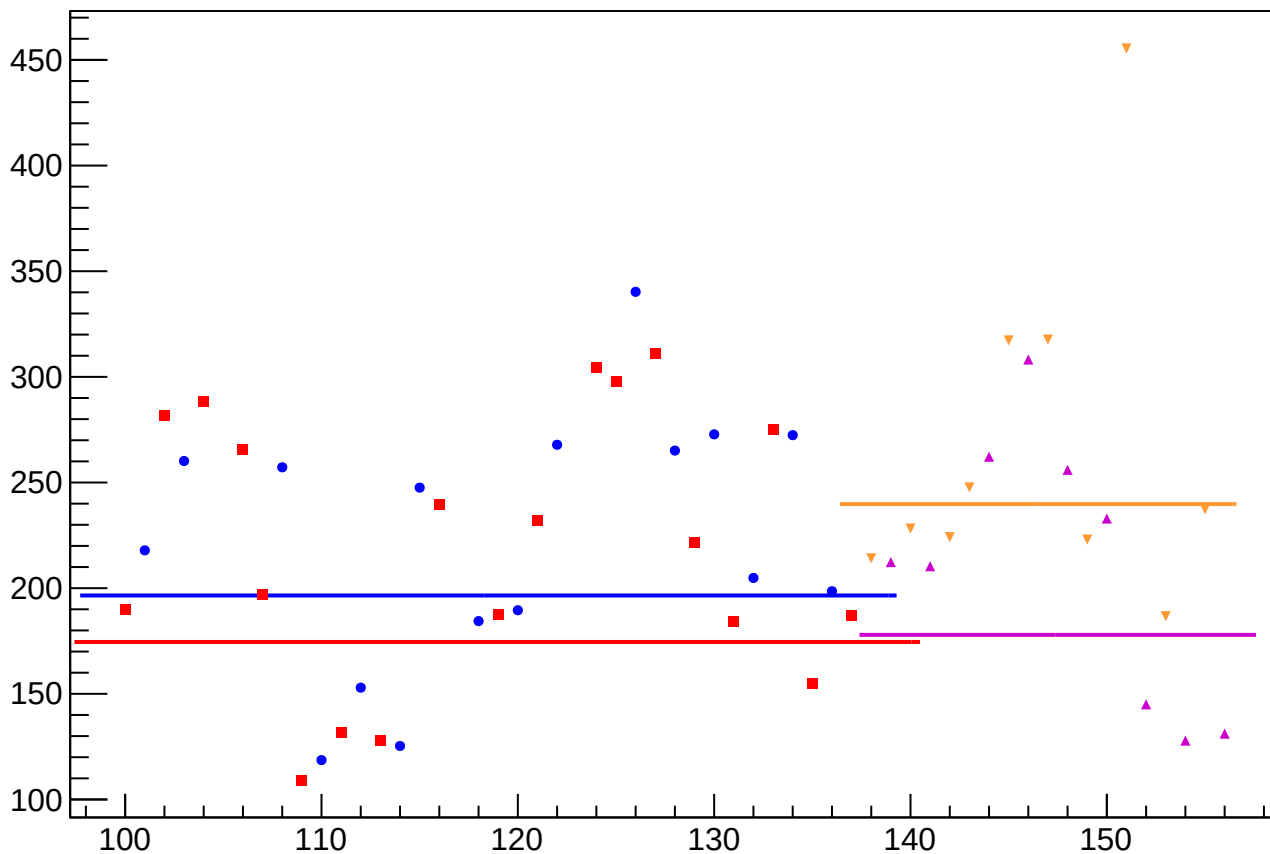
Right: -87.579+/-51.473 χ^2/NDF : 29.1/34

In: 74.377+/-51.531 χ^2/NDF : 23.2/24

Out: 2.706+/-54.573 χ^2/NDF : 25.6/28

All: 40.595+/-37.467 χ^2/NDF : 49.7/53

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: 239.791 $\pm$ 0.063 χ^2 /NDF: 716941.1/9

Right Out: 174.540 $\pm$ 0.049 χ^2 /NDF: 1588725.2/18

Left In: 177.904 $\pm$ 0.049 χ^2 /NDF: 1337306.1/8

Left: 201.258 $\pm$ 0.039 χ^2 /NDF: 2657030.8/18

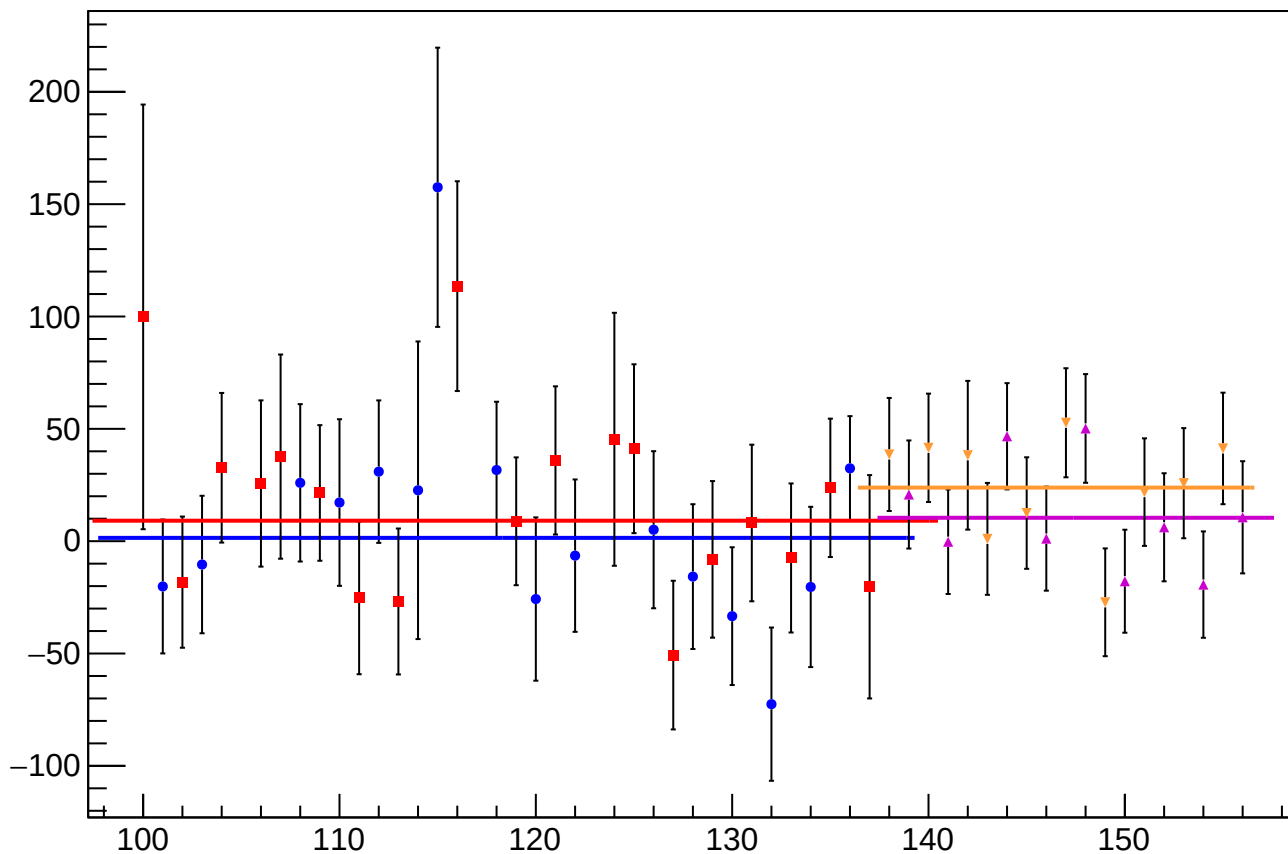
Right: 184.337 $\pm$ 0.036 χ^2 /NDF: 2679758.7/34

In: 186.221 $\pm$ 0.036 χ^2 /NDF: 2402732.9/24

Out: 199.101 $\pm$ 0.039 χ^2 /NDF: 2976787.4/28

All: 192.292 $\pm$ 0.026 χ^2 /NDF: 5438410.9/53

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.475 $\pm$ 8.370 χ^2 /NDF: 18.7/15

Left Out: 23.849 $\pm$ 7.927 χ^2 /NDF:8.6/9

Right Out: 9.113 $\pm$ 8.198 χ^2 /NDF: 16.5/18

Left In: 10.413 $\pm$ 7.916 χ^2 /NDF:8.7/8

Left: 17.122 $\pm$ 5.601 χ^2 /NDF: 18.7/18

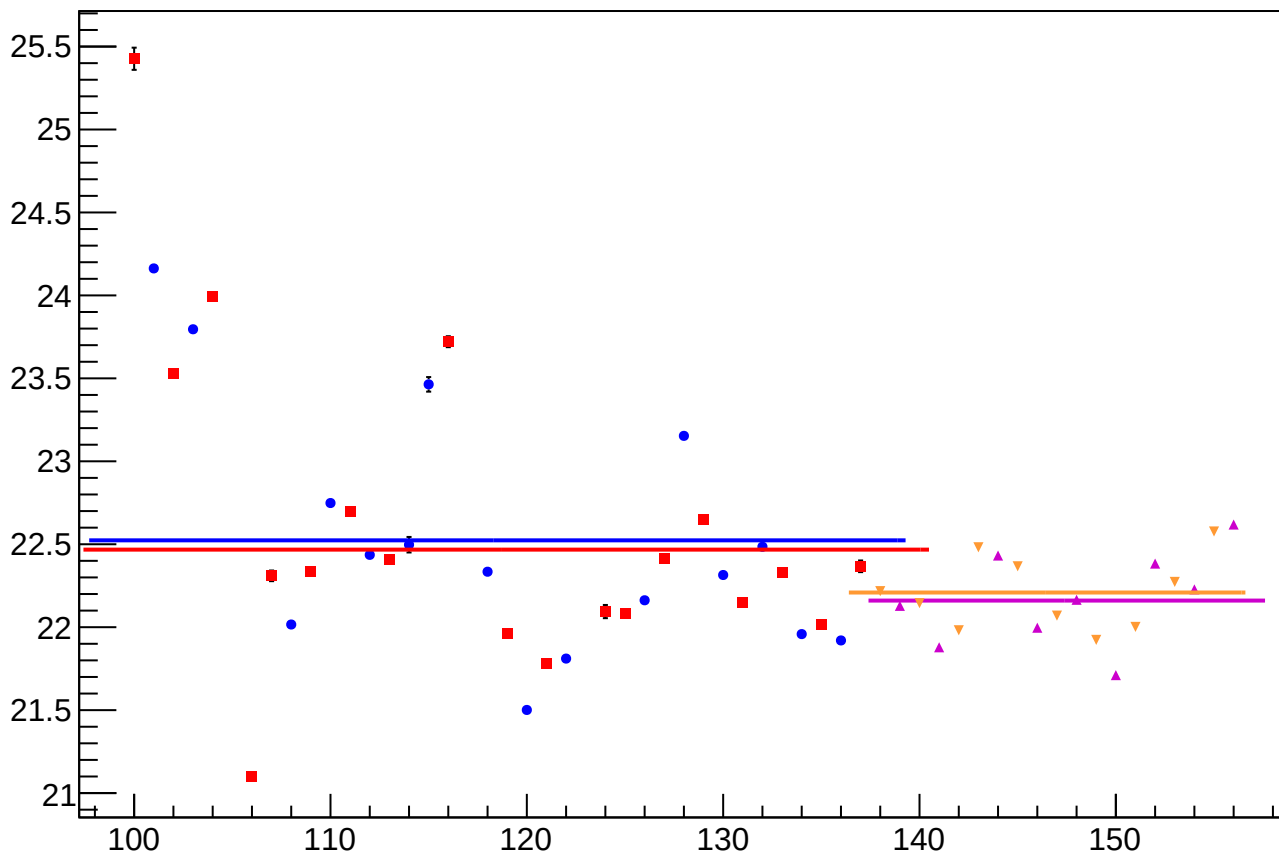
Right: 5.374 $\pm$ 5.857 χ^2 /NDF: 35.6/34

In: 6.194 $\pm$ 5.751 χ^2 /NDF:28.0/24

Out: 16.728 $\pm$ 5.698 χ^2 /NDF:26.7/28

All: 11.510 $\pm$ 4.048 χ^2 /NDF: 56.4/53

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.524 $\pm$ 0.006 χ^2 /NDF: 15947.8/15

Left Out: 22.209 $\pm$ 0.006 χ^2 /NDF:1381.8/9

Right Out: 22.468 $\pm$ 0.006 χ^2 /NDF: 15626.5/18

Left In: 22.160 $\pm$ 0.006 χ^2 /NDF:2291.1/8

Left: 22.185 $\pm$ 0.004 χ^2 /NDF: 3710.6/18

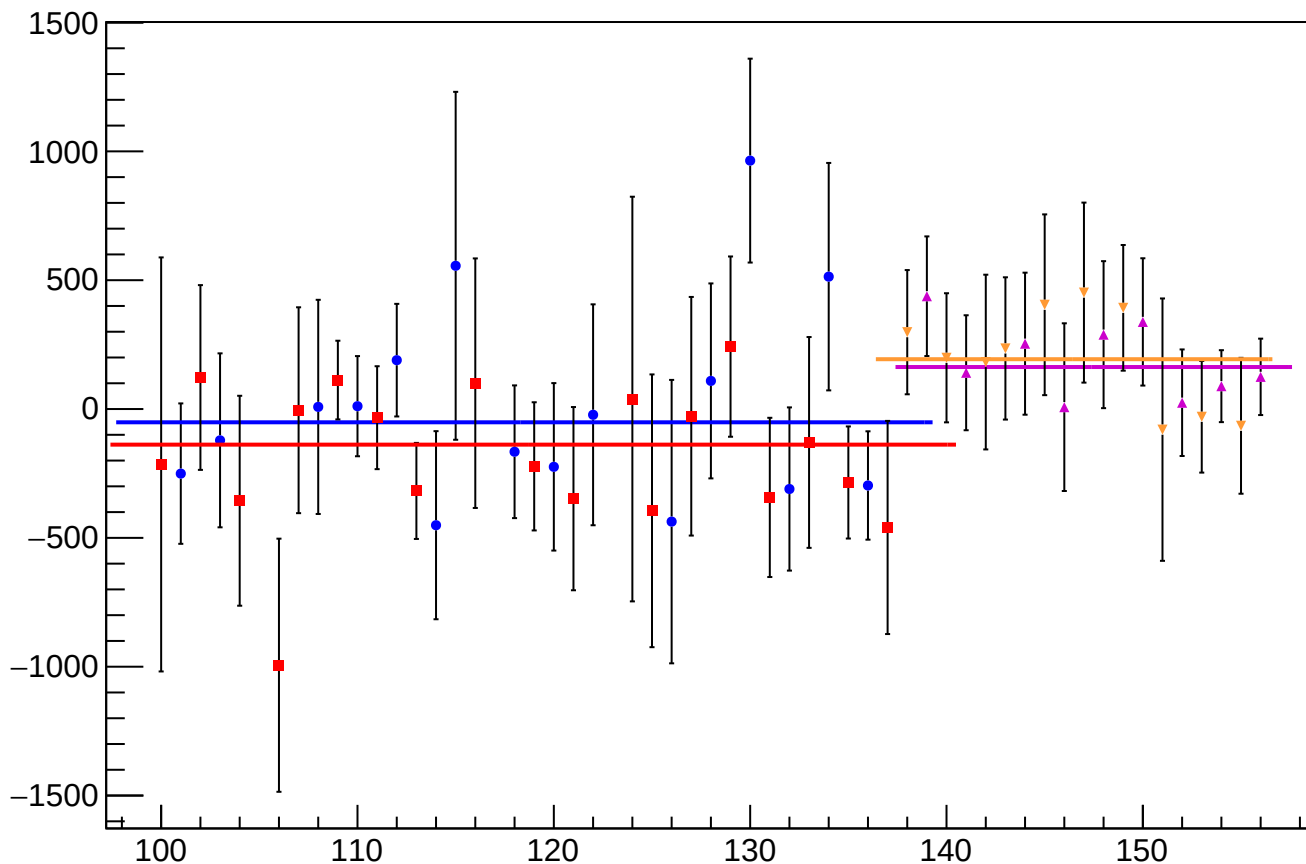
Right: 22.495 $\pm$ 0.004 χ^2 /NDF: 31619.9/34

In: 22.332 $\pm$ 0.004 χ^2 /NDF:20225.9/24

Out: 22.334 $\pm$ 0.004 χ^2 /NDF:18036.2/28

All: 22.333 $\pm$ 0.003 χ^2 /NDF: 38262.2/53

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.492 $\pm$ 76.798 χ^2 /NDF: 15.3/15

Left Out: 193.362 $\pm$ 88.509 χ^2 /NDF: 4.1/9

Right Out: -138.184 $\pm$ 68.625 χ^2 /NDF: 11.6/18

Left In: 163.033 $\pm$ 68.982 χ^2 /NDF: 3.2/8

Left: 174.494 $\pm$ 54.409 χ^2 /NDF: 7.4/18

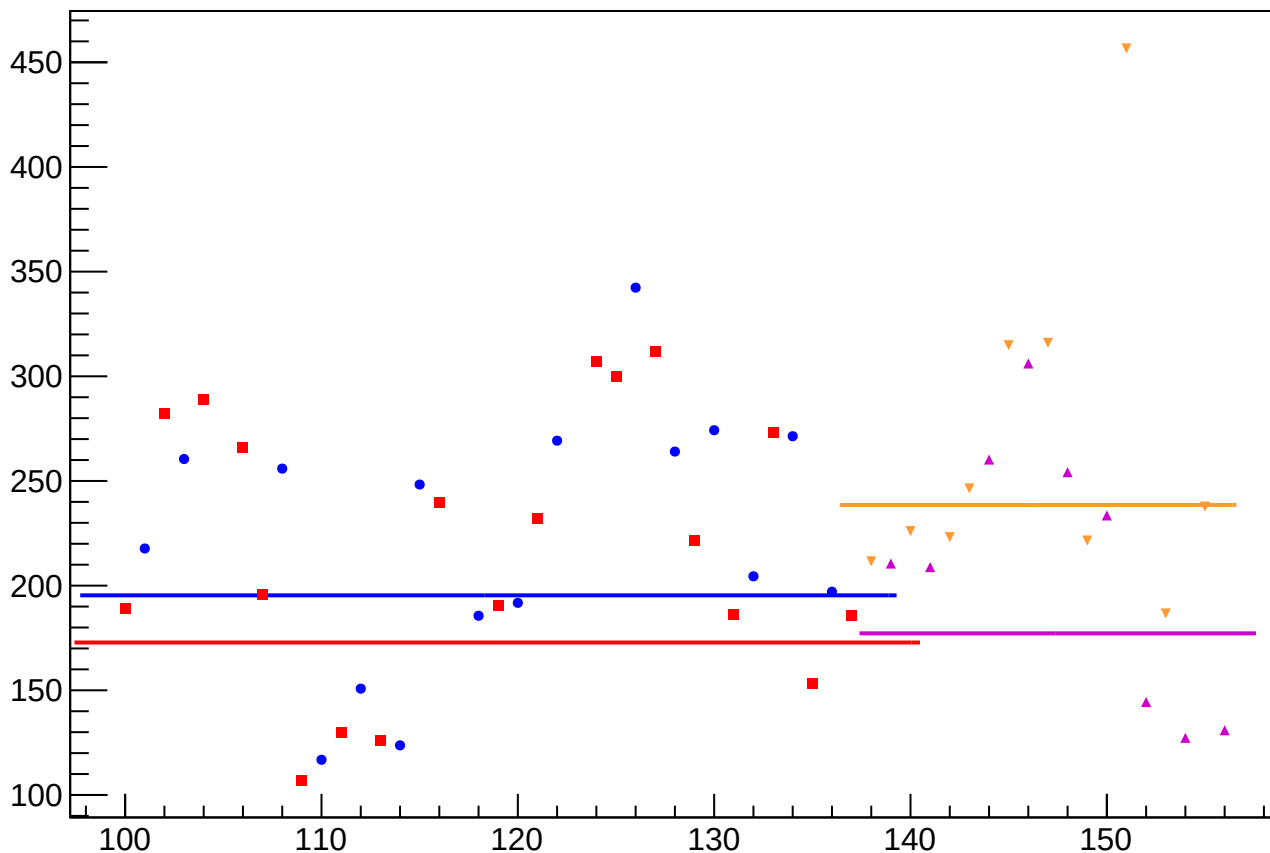
Right: -99.695 $\pm$ 51.171 χ^2 /NDF: 27.7/34

In: 67.239 $\pm$ 51.319 χ^2 /NDF: 22.9/24

Out: -13.704 $\pm$ 54.233 χ^2 /NDF: 24.5/28

All: 29.000 $\pm$ 37.276 χ^2 /NDF: 48.5/53

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.361+/-0.054 χ^2/NDF : 1041432.1/15

Left Out: 238.548+/-0.063 χ^2/NDF : 719922.8/9

Right Out: 172.837+/-0.049 χ^2/NDF : 1659430.2/18

Left In: 177.210+/-0.049 χ^2/NDF : 1327813.9/8

Left: 200.389+/-0.038 χ^2/NDF : 2645310.7/18

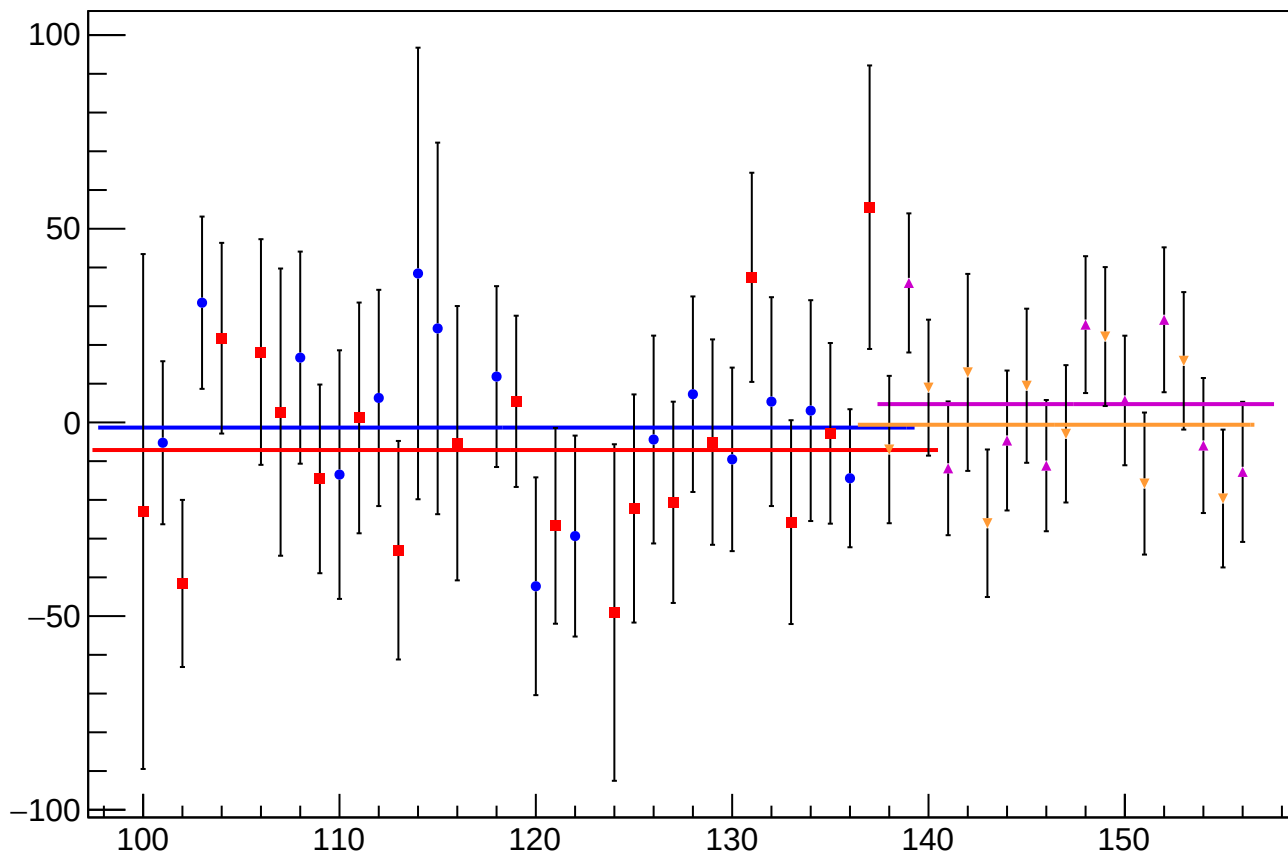
Right: 182.837+/-0.036 χ^2/NDF : 2796519.3/34

In: 185.315+/-0.036 χ^2/NDF : 2431079.3/24

Out: 197.508+/-0.038 χ^2/NDF : 3067855.2/28

All: 191.075+/-0.026 χ^2/NDF : 5552273.9/53

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 $\chi^2/\text{NDF}: 8.0/15$

Left Out: -0.600 ± 5.930 $\chi^2/\text{NDF}: 7.1/9$

Right Out: -7.126 ± 6.402 $\chi^2/\text{NDF}: 14.4/18$

Left In: 4.726 ± 5.873 $\chi^2/\text{NDF}: 9.1/8$

Left: 2.089 ± 4.173 $\chi^2/\text{NDF}: 16.6/18$

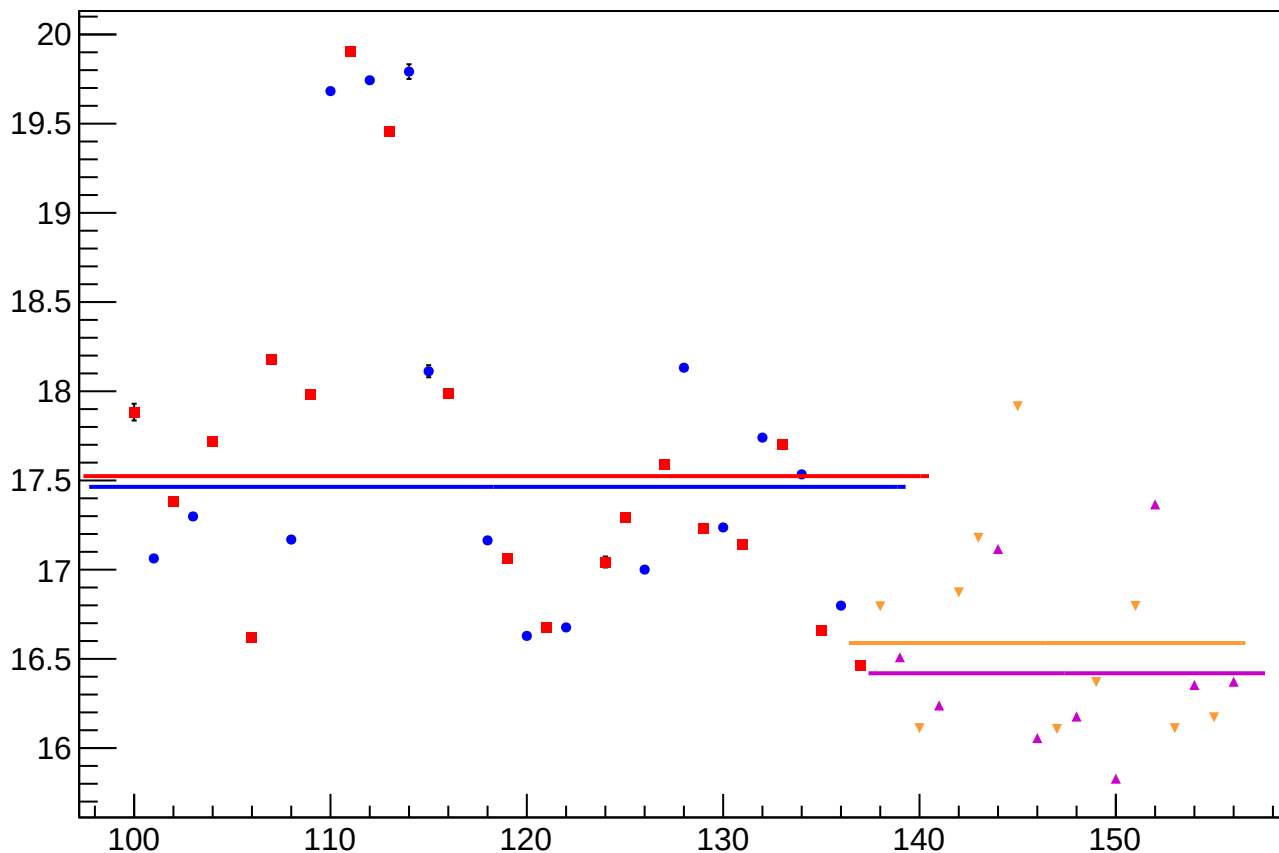
Right: -4.272 ± 4.561 $\chi^2/\text{NDF}: 22.8/34$

In: 2.003 ± 4.357 $\chi^2/\text{NDF}: 17.6/24$

Out: -3.613 ± 4.350 $\chi^2/\text{NDF}: 22.0/28$

All: -0.810 ± 3.079 $\chi^2/\text{NDF}: 40.5/53$

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: 16.589 $\pm$ 0.004 χ^2 /NDF: 17346.7/9

Right Out: 17.524 $\pm$ 0.005 χ^2 /NDF: 34726.0/18

Left In: 16.419 $\pm$ 0.004 χ^2 /NDF: 12200.6/8

Left: 16.503 $\pm$ 0.003 χ^2 /NDF: 30374.9/18

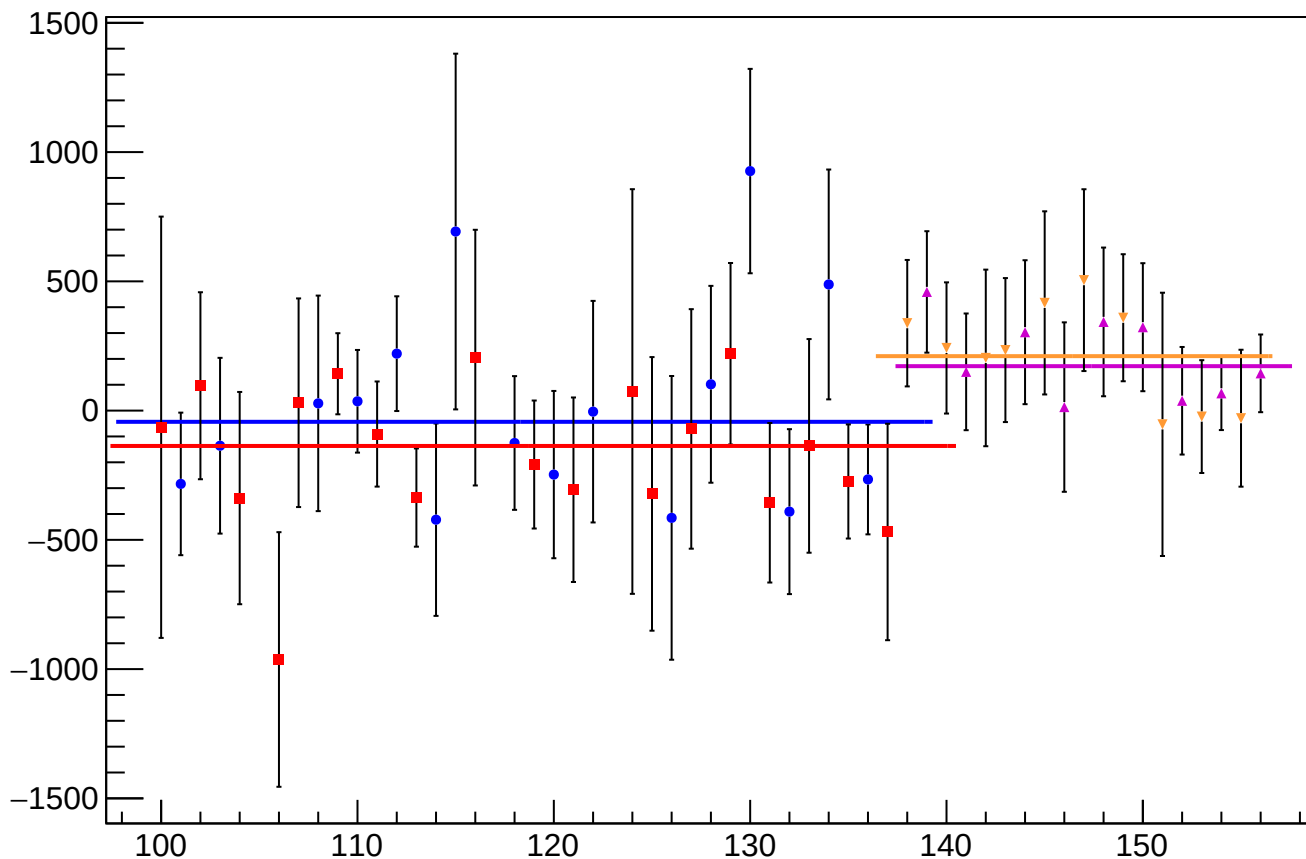
Right: 17.495 $\pm$ 0.003 χ^2 /NDF: 71463.1/34

In: 16.889 $\pm$ 0.003 χ^2 /NDF: 77309.6/24

Out: 17.021 $\pm$ 0.003 χ^2 /NDF: 75046.5/28

All: 16.955 $\pm$ 0.002 χ^2 /NDF: 153273.7/53

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -43.384 ± 77.584 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 210.620 ± 89.283 $\chi^2/\text{NDF}: 3.9/9$

Right Out: -136.778 ± 69.557 $\chi^2/\text{NDF}: 11.5/18$

Left In: 171.886 ± 69.799 $\chi^2/\text{NDF}: 3.7/8$

Left: 186.580 ± 54.989 $\chi^2/\text{NDF}: 7.7/18$

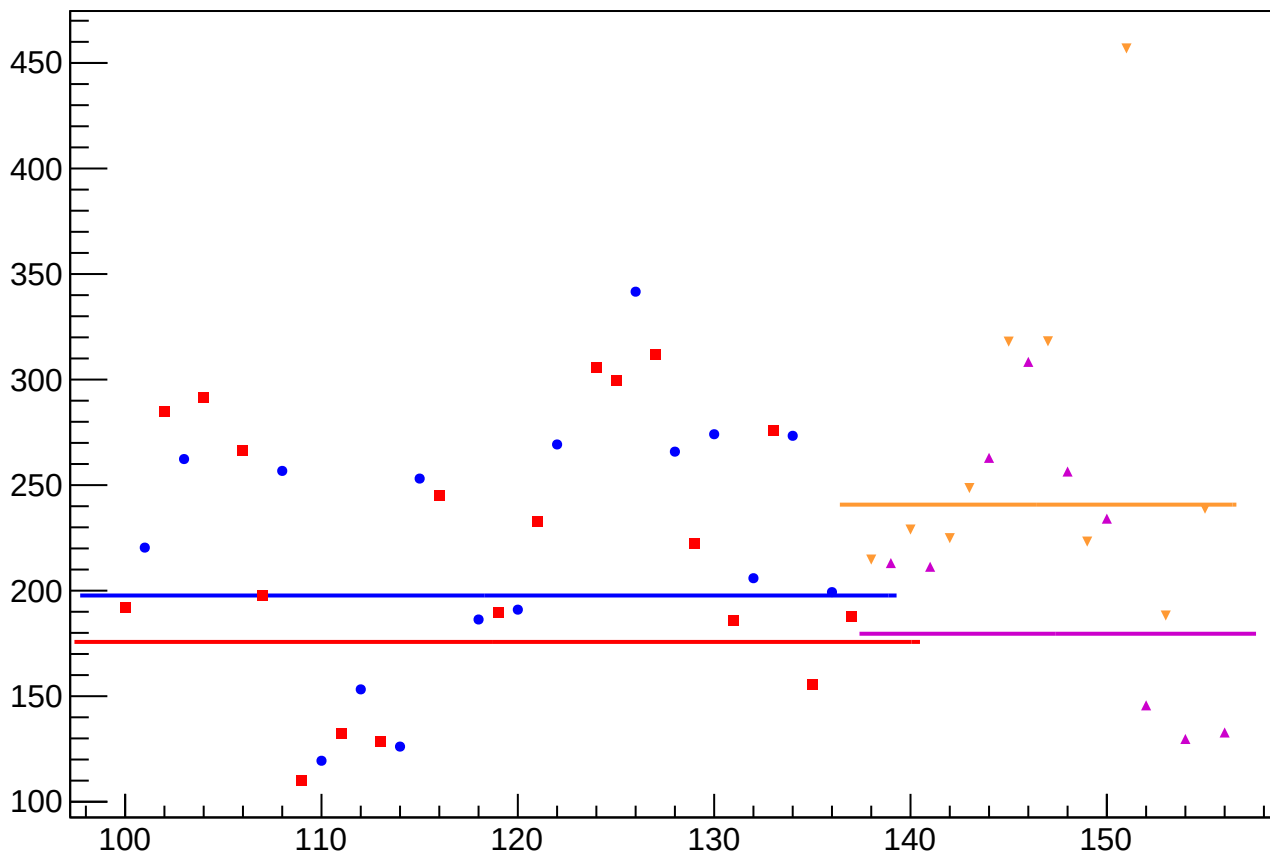
Right: -95.161 ± 51.790 $\chi^2/\text{NDF}: 27.8/34$

In: 75.590 ± 51.890 $\chi^2/\text{NDF}: 23.4/24$

Out: -5.566 ± 54.871 $\chi^2/\text{NDF}: 24.9/28$

All: 37.276 ± 37.701 $\chi^2/\text{NDF}: 49.4/53$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.707 ± 0.055 χ^2/NDF : 1000324.6/15

Left Out: 240.753 ± 0.063 χ^2/NDF : 711212.8/9

Right Out: 175.716 ± 0.049 χ^2/NDF : 1590559.8/18

Left In: 179.588 ± 0.049 χ^2/NDF : 1301059.5/8

Left: 202.790 ± 0.039 χ^2/NDF : 2594861.3/18

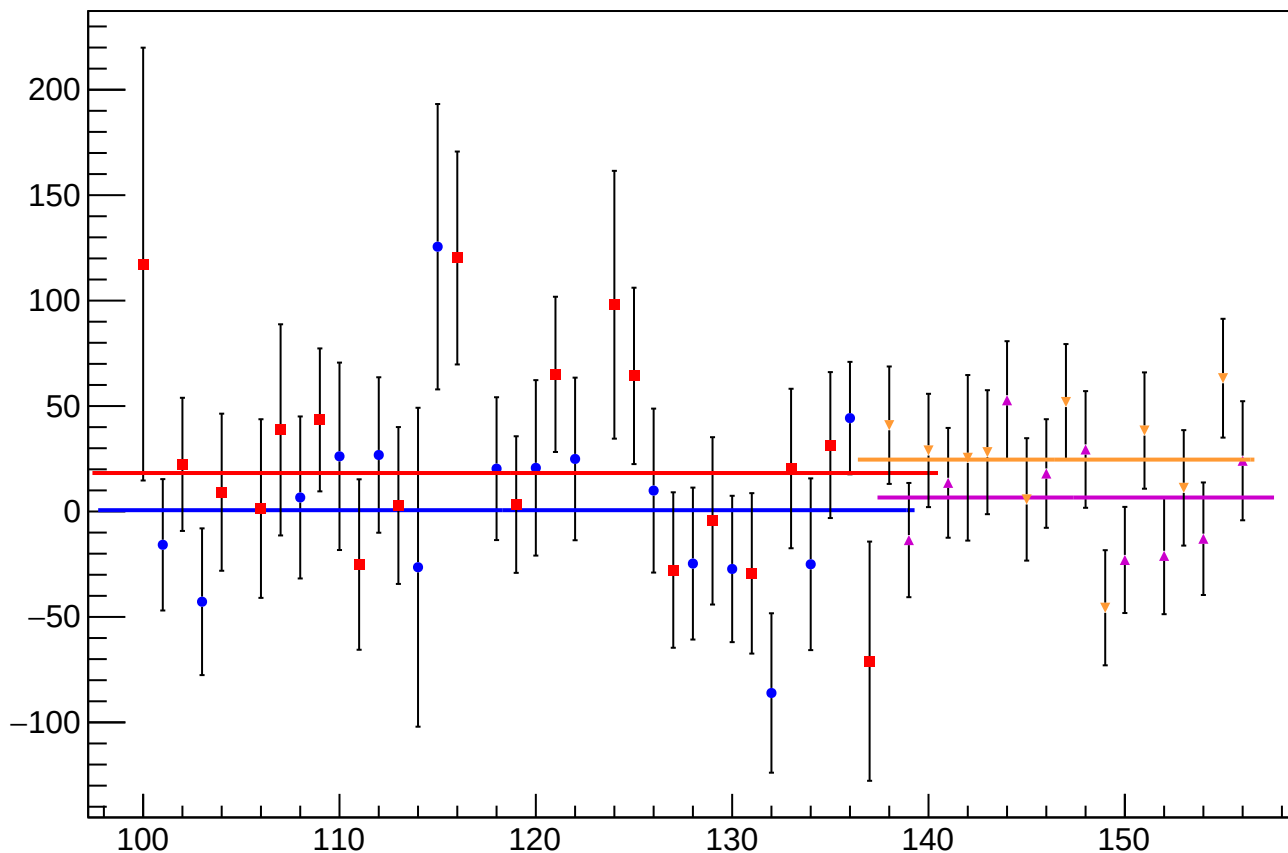
Right: 185.515 ± 0.037 χ^2/NDF : 2679972.8/34

In: 187.693 ± 0.037 χ^2/NDF : 2361672.2/24

Out: 200.280 ± 0.039 χ^2/NDF : 2962204.8/28

All: 193.636 ± 0.027 χ^2/NDF : 5379434.2/53

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: 24.607 ± 9.037 $\chi^2/\text{NDF}: 10.8/9$

Right Out: 18.248 ± 9.208 $\chi^2/\text{NDF}: 18.0/18$

Left In: 6.630 ± 8.954 $\chi^2/\text{NDF}: 7.5/8$

Left: 15.535 ± 6.361 $\chi^2/\text{NDF}: 20.3/18$

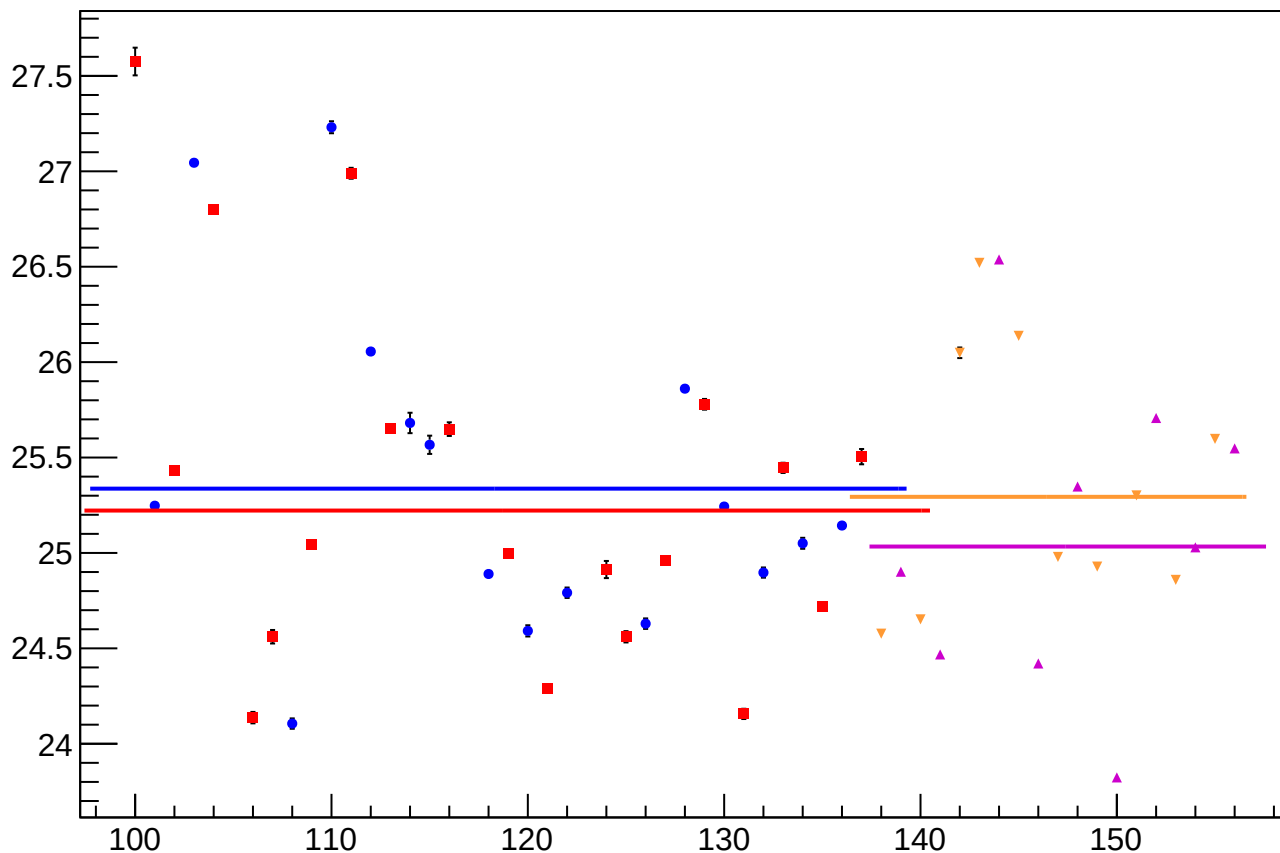
Right: 9.635 ± 6.585 $\chi^2/\text{NDF}: 36.5/34$

In: 3.778 ± 6.490 $\chi^2/\text{NDF}: 24.5/24$

Out: 21.487 ± 6.450 $\chi^2/\text{NDF}: 29.0/28$

All: 12.687 ± 4.575 $\chi^2/\text{NDF}: 57.2/53$

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: 25.294 ± 0.006 $\chi^2/\text{NDF}: 9738.9/9$

Right Out: 25.222 ± 0.007 $\chi^2/\text{NDF}: 15224.4/18$

Left In: 25.034 ± 0.006 $\chi^2/\text{NDF}: 14626.3/8$

Left: 25.163 ± 0.004 $\chi^2/\text{NDF}: 25203.8/18$

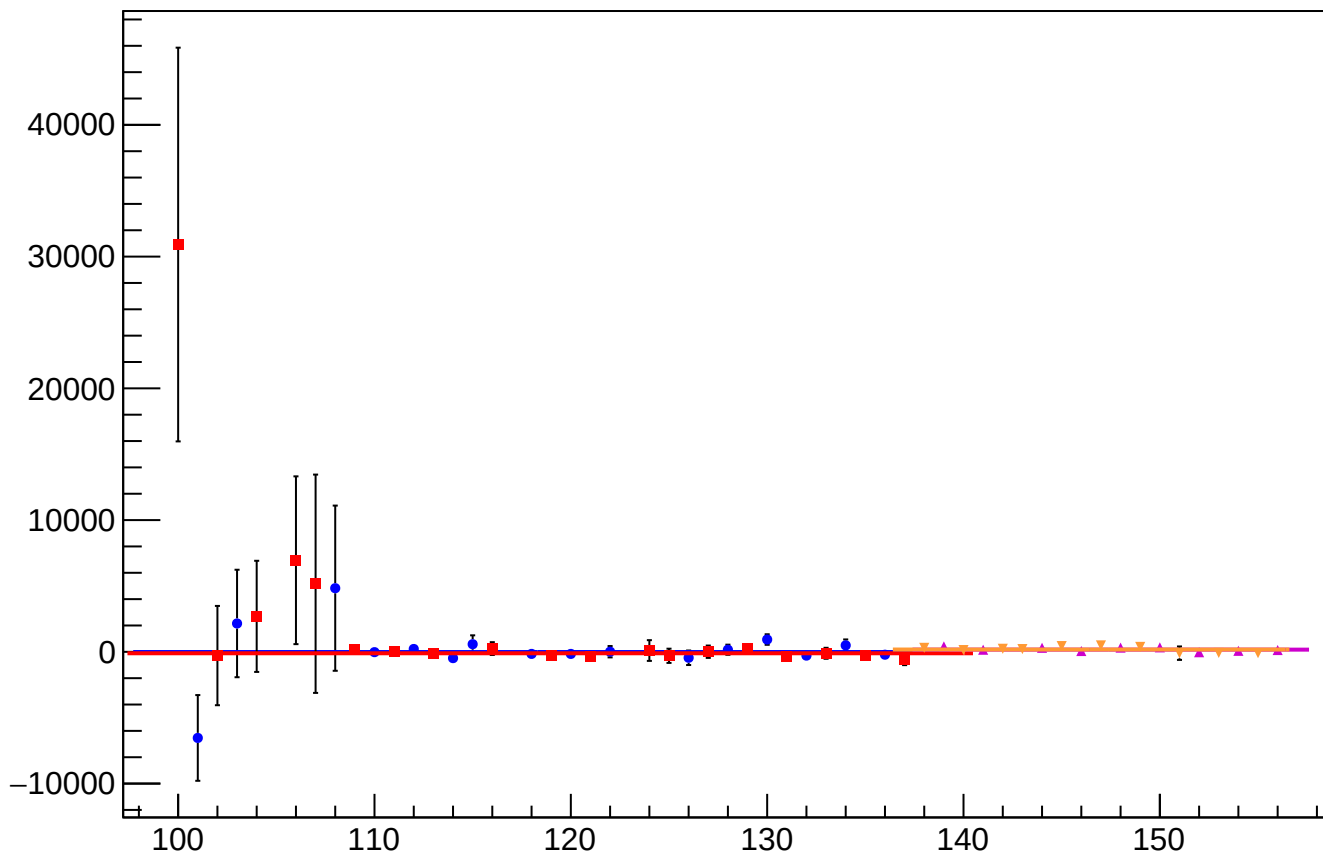
Right: 25.278 ± 0.005 $\chi^2/\text{NDF}: 29691.5/34$

In: 25.178 ± 0.005 $\chi^2/\text{NDF}: 30031.4/24$

Out: 25.259 ± 0.005 $\chi^2/\text{NDF}: 25025.5/28$

All: 25.218 ± 0.003 $\chi^2/\text{NDF}: 55214.5/53$

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: 175.619+/-91.023 χ^2/NDF : 4.8/9

Right Out: -108.825+/-78.099 χ^2/NDF : 14.0/18

Left In: 166.820+/-71.564 χ^2/NDF : 3.5/8

Left: 170.181+/-56.258 χ^2/NDF : 8.3/18

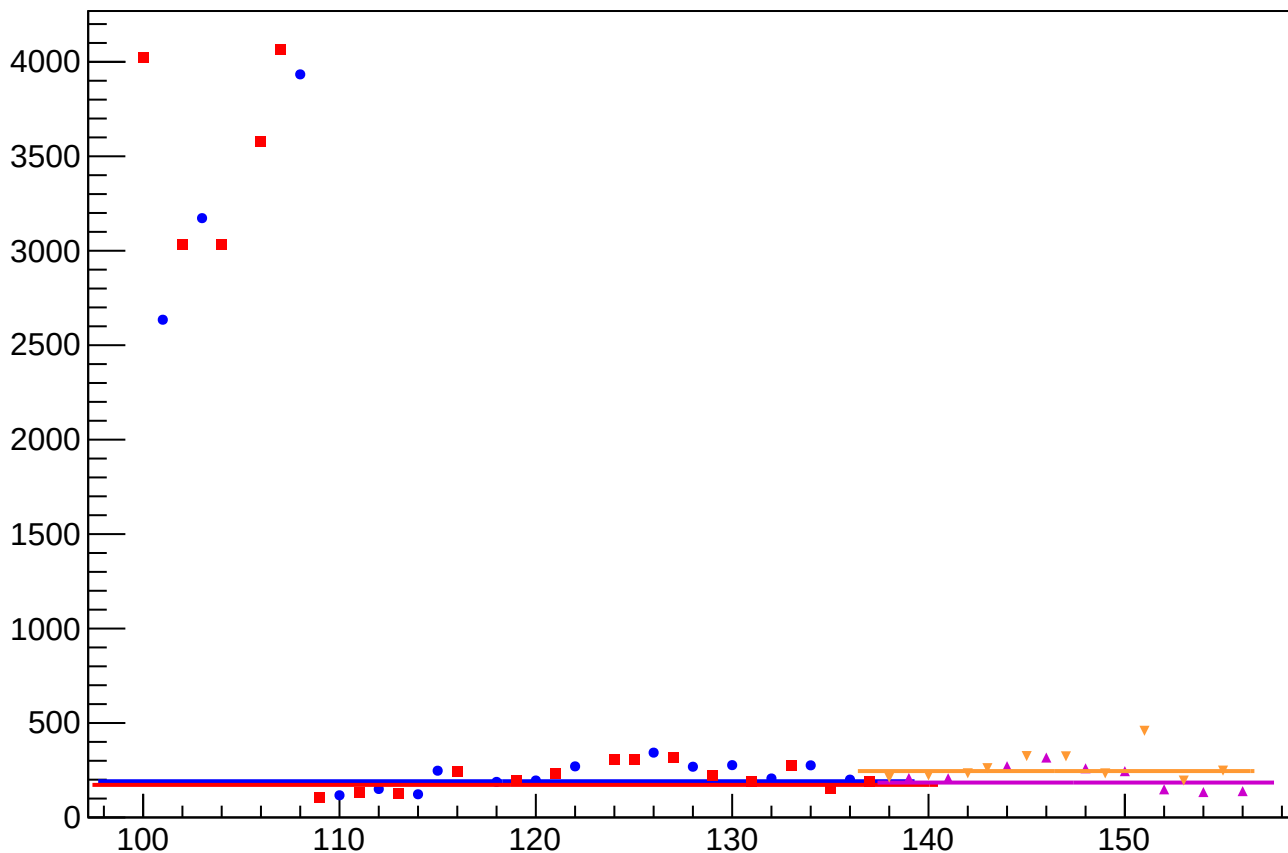
Right: -65.918+/-57.416 χ^2/NDF : 33.0/34

In: 90.900+/-54.665 χ^2/NDF : 24.5/24

Out: 11.786+/-59.272 χ^2/NDF : 24.5/28

All: 54.536+/-40.184 χ^2/NDF : 49.9/53

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.736+/-0.060 χ^2/NDF : 3821804.2/15

Left Out: 245.528+/-0.064 χ^2/NDF : 711182.4/9

Right Out: 172.462+/-0.055 χ^2/NDF : 4303129.4/18

Left In: 184.700+/-0.051 χ^2/NDF : 1230632.4/8

Left: 207.937+/-0.040 χ^2/NDF : 2493782.1/18

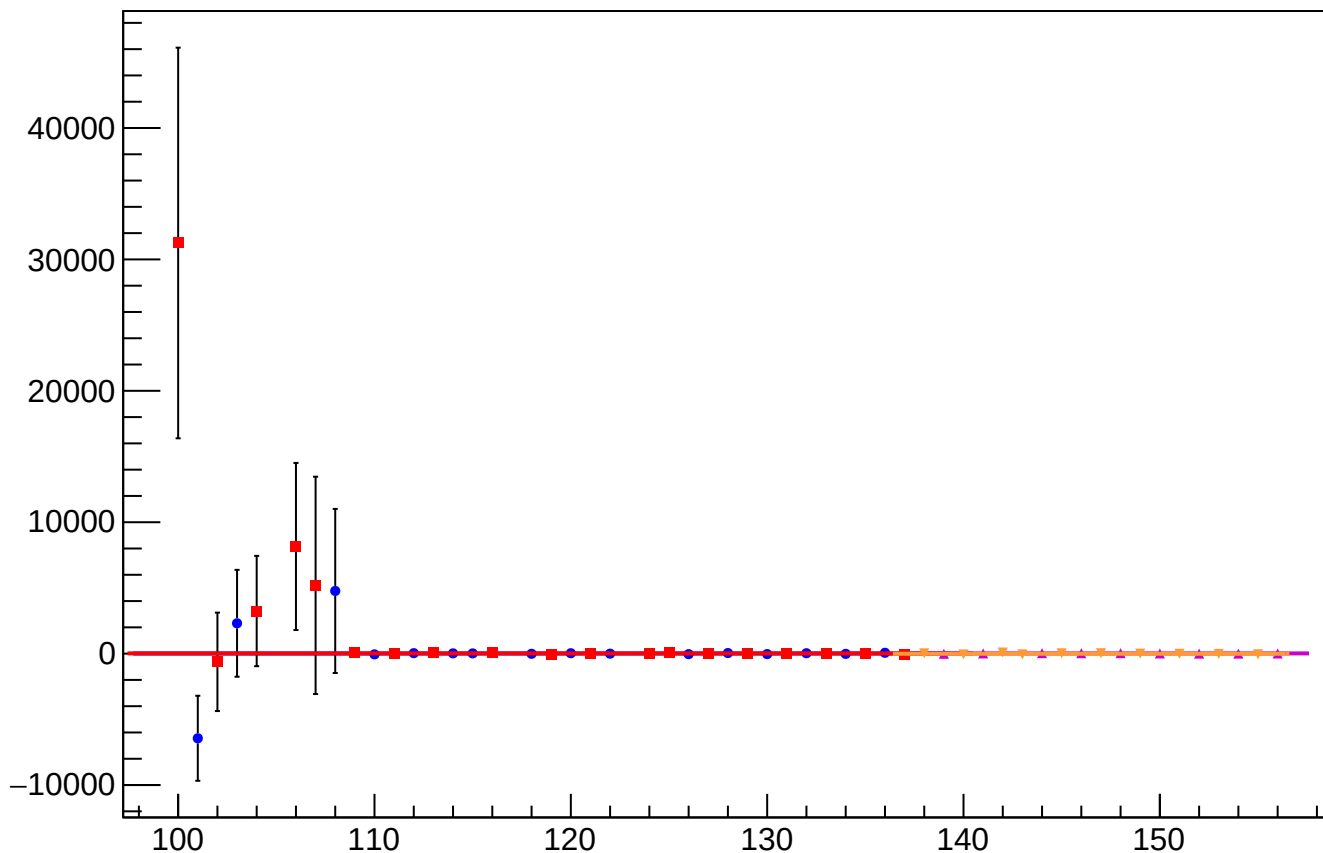
Right: 181.319+/-0.041 χ^2/NDF : 8180903.6/34

In: 187.631+/-0.039 χ^2/NDF : 5060487.4/24

Out: 203.444+/-0.042 χ^2/NDF : 5756579.9/28

All: 194.899+/-0.028 χ^2/NDF : 10893992.3/53

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: -9.188+/-10.589 χ^2/NDF :13.3/9

Right Out: 18.105+/-11.805 χ^2/NDF : 24.8/18

Left In: 17.077+/-10.681 χ^2/NDF :2.2/8

Left: 3.832+/-7.520 χ^2/NDF : 18.6/18

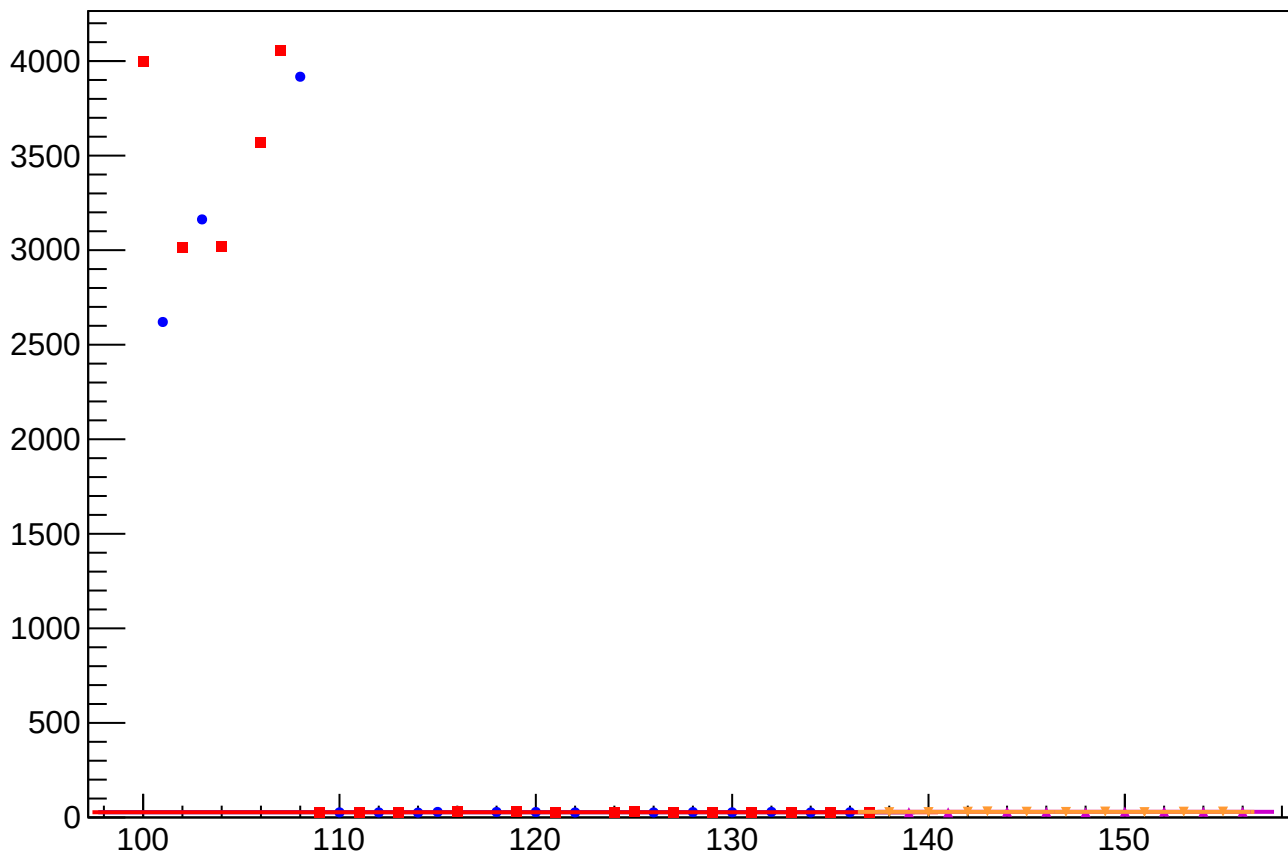
Right: 13.797+/-8.305 χ^2/NDF : 41.0/34

In: 13.663+/-7.883 χ^2/NDF :18.4/24

Out: 2.981+/-7.883 χ^2/NDF :41.1/28

All: 8.321+/-5.574 χ^2/NDF : 60.4/53

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: 29.568 $\pm$ 0.007 χ^2 /NDF:30614.2/9

Right Out: 27.535 $\pm$ 0.008 χ^2 /NDF: 3555229.4/18

Left In: 29.781 $\pm$ 0.008 χ^2 /NDF:43892.4/8

Left: 29.674 $\pm$ 0.005 χ^2 /NDF: 74905.3/18

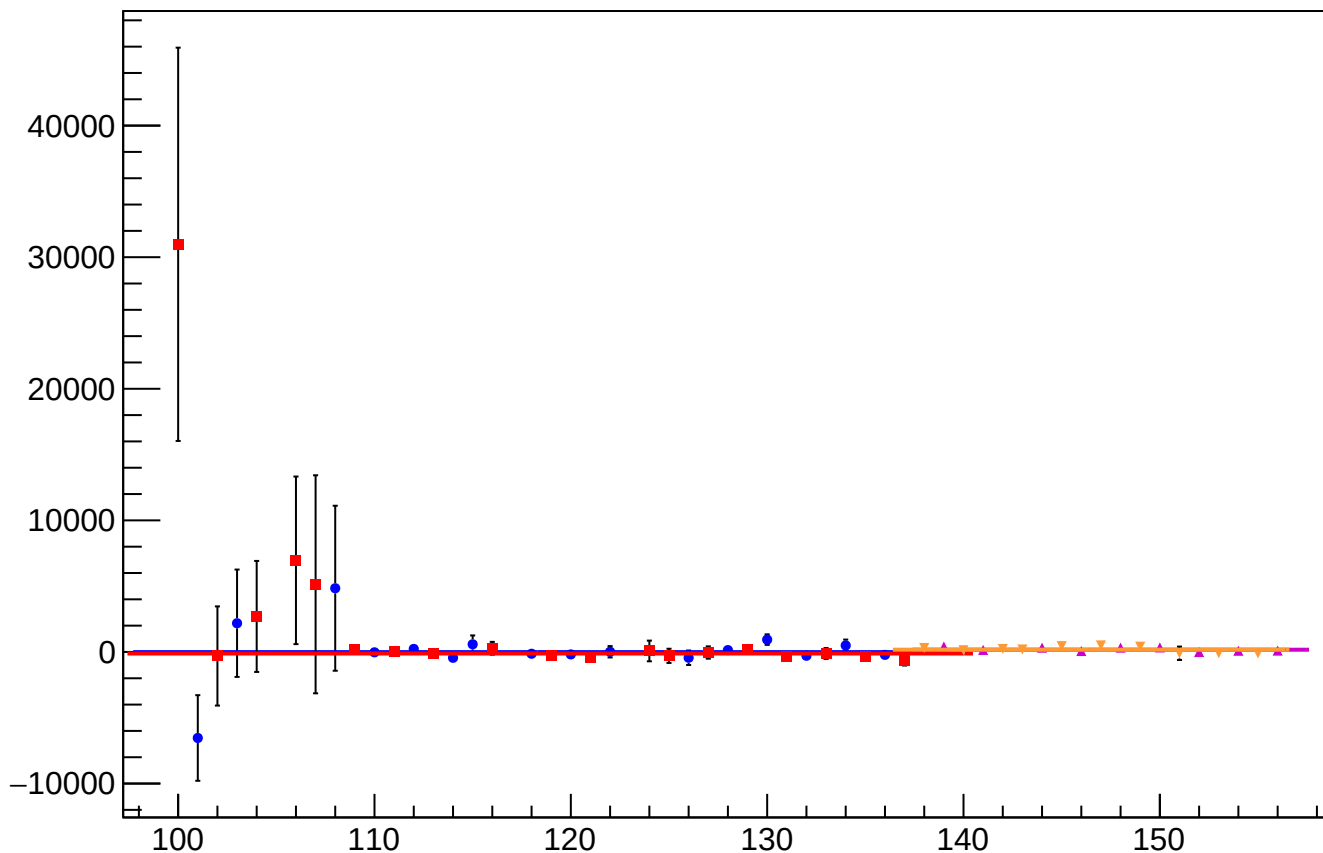
Right: 27.589 $\pm$ 0.006 χ^2 /NDF: 6820810.9/34

In: 28.807 $\pm$ 0.006 χ^2 /NDF:3345912.4/24

Out: 28.662 $\pm$ 0.006 χ^2 /NDF:3618740.3/28

All: 28.734 $\pm$ 0.004 χ^2 /NDF: 6964993.1/53

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -13.160+/-84.454 χ^2/NDF : 18.3/15

Left Out: 173.034+/-90.820 χ^2/NDF : 5.2/9

Right Out: -118.063+/-77.862 χ^2/NDF : 14.4/18

Left In: 170.576+/-71.419 χ^2/NDF : 3.4/8

Left: 171.515+/-56.140 χ^2/NDF : 8.6/18

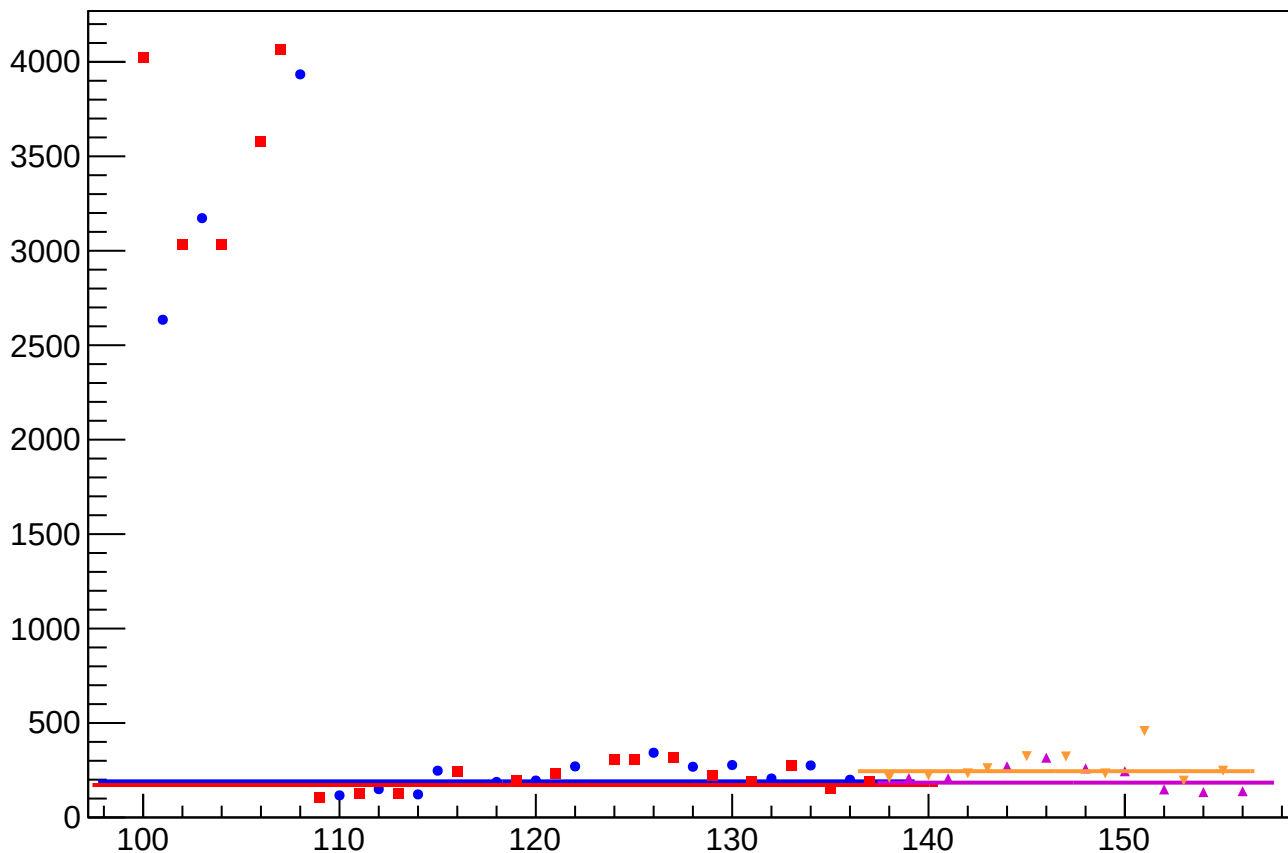
Right: -69.865+/-57.246 χ^2/NDF : 33.6/34

In: 93.967+/-54.534 χ^2/NDF : 24.5/24

Out: 5.255+/-59.112 χ^2/NDF : 25.6/28

All: 53.179+/-40.082 χ^2/NDF : 51.3/53

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: 244.979 $\pm$ 0.064 χ^2 /NDF: 711317.4/9

Right Out: 171.835 $\pm$ 0.055 χ^2 /NDF: 4314721.8/18

Left In: 184.333 $\pm$ 0.051 χ^2 /NDF: 1229679.0/8

Left: 207.506 $\pm$ 0.040 χ^2 /NDF: 2492043.0/18

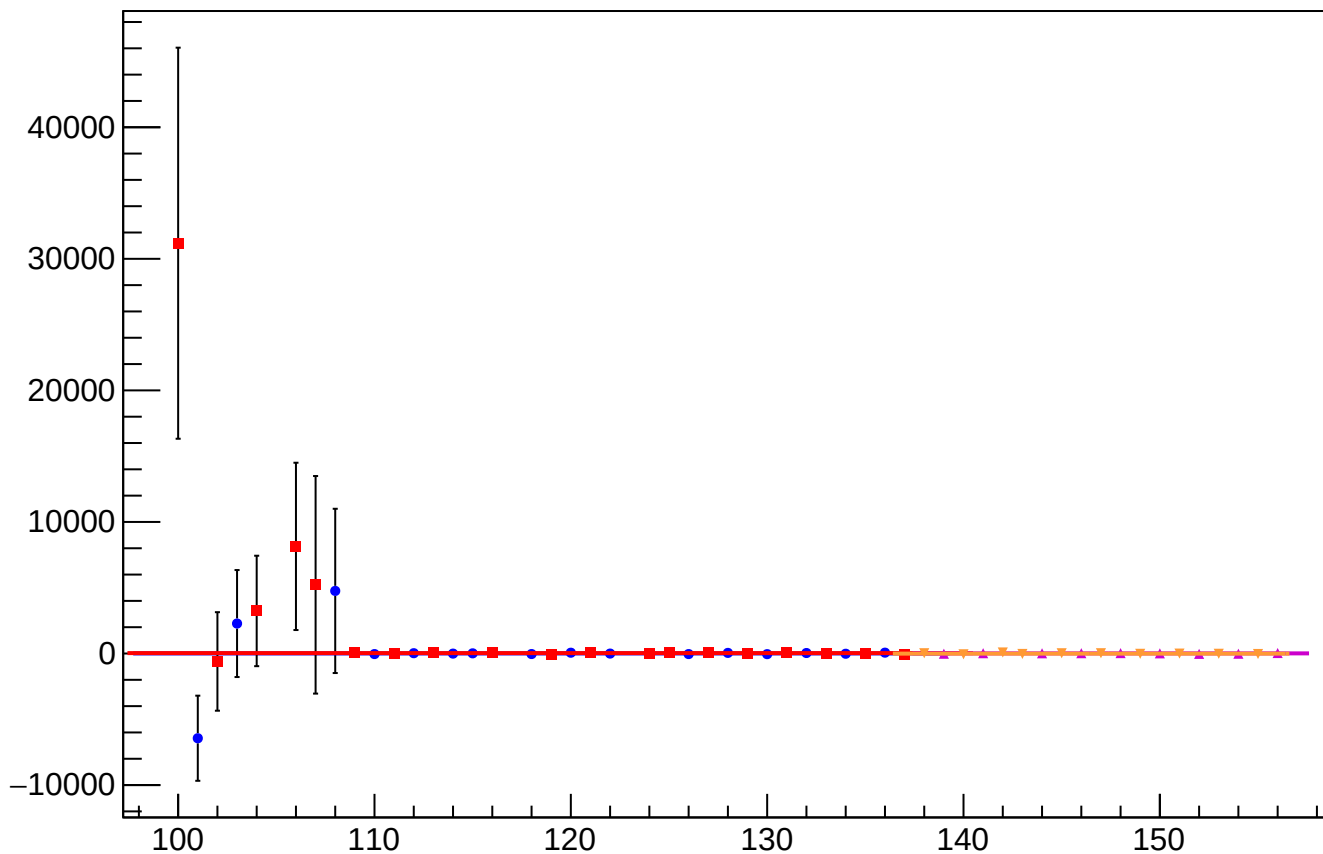
Right: 180.673 $\pm$ 0.040 χ^2 /NDF: 8204752.1/34

In: 187.142 $\pm$ 0.039 χ^2 /NDF: 5071050.8/24

Out: 202.821 $\pm$ 0.042 χ^2 /NDF: 5773735.5/28

All: 194.351 $\pm$ 0.028 χ^2 /NDF: 10920801.7/53

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.490+/-11.764 χ^2/NDF : 18.3/15

Left Out: -8.391+/-10.668 χ^2/NDF :10.1/9

Right Out: 30.962+/-11.902 χ^2/NDF : 19.9/18

Left In: 10.442+/-10.744 χ^2/NDF :4.0/8

Left: 0.960+/-7.570 χ^2/NDF : 15.6/18

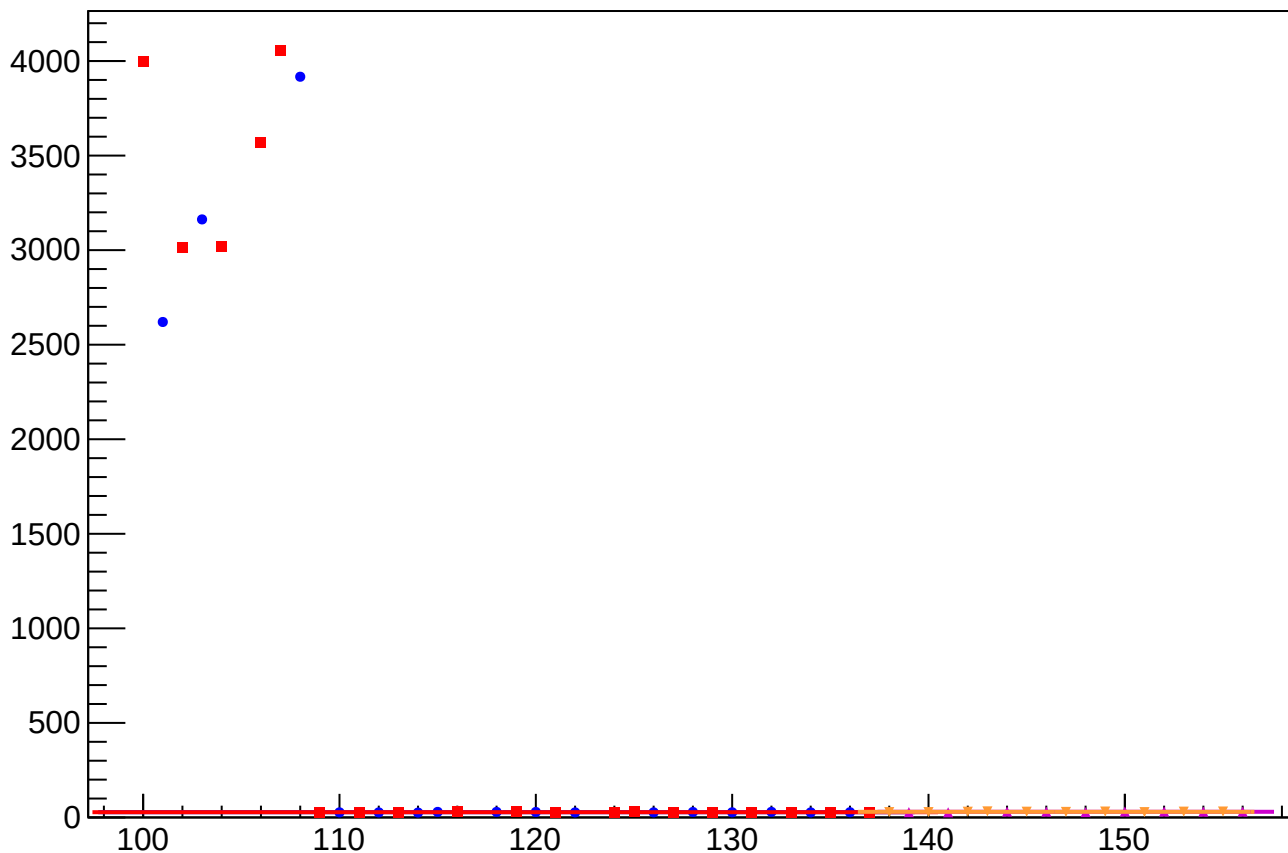
Right: 18.584+/-8.367 χ^2/NDF : 40.3/34

In: 8.645+/-7.933 χ^2/NDF :22.3/24

Out: 9.142+/-7.944 χ^2/NDF :36.0/28

All: 8.893+/-5.613 χ^2/NDF : 58.4/53

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: 29.786+/-0.008 χ^2/NDF : 33346.2/9

Right Out: 27.754+/-0.008 χ^2/NDF : 3558676.9/18

Left In: 29.961+/-0.008 χ^2/NDF : 45657.8/8

Left: 29.873+/-0.005 χ^2/NDF : 79270.7/18

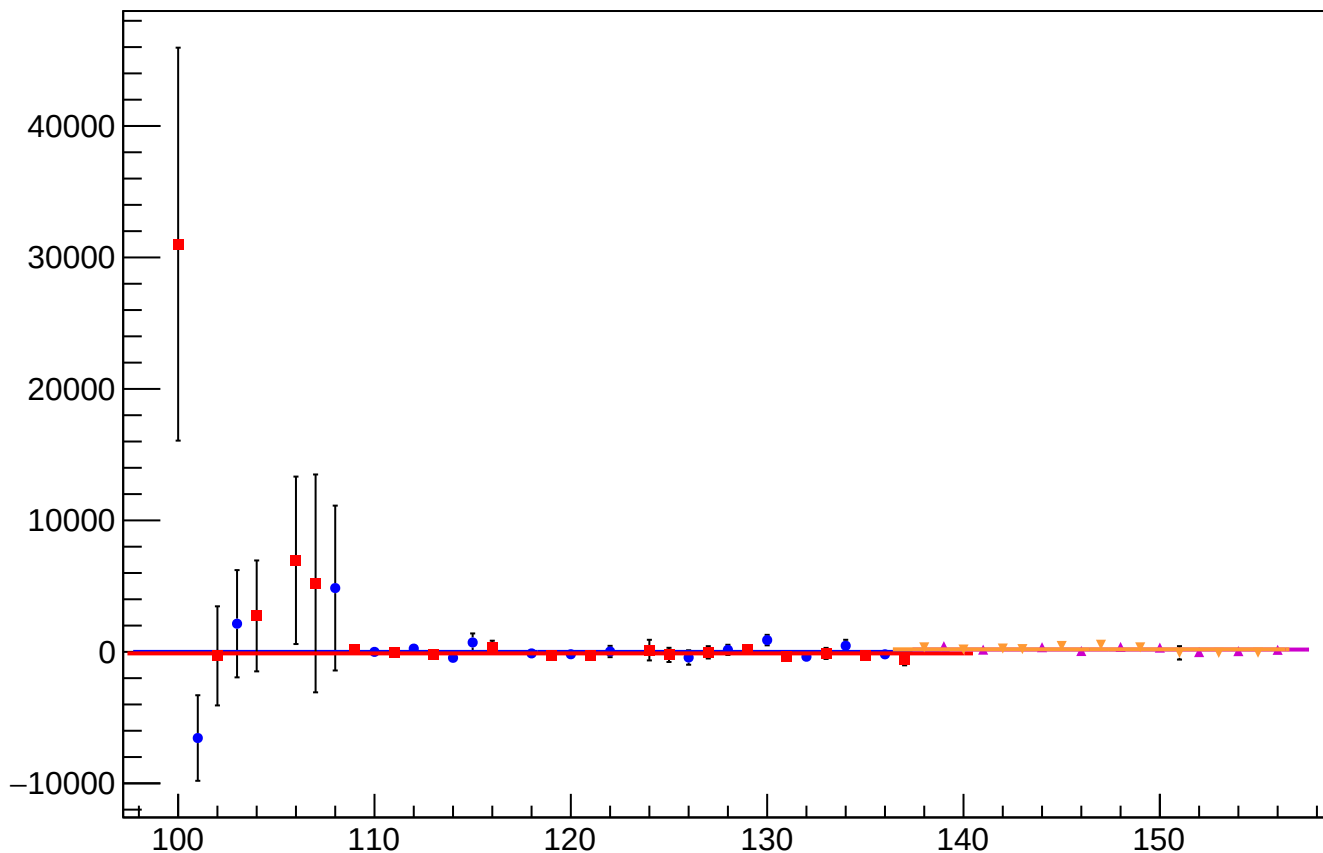
Right: 27.790+/-0.006 χ^2/NDF : 6824608.5/34

In: 28.990+/-0.006 χ^2/NDF : 3347506.6/24

Out: 28.881+/-0.006 χ^2/NDF : 3624367.8/28

All: 28.935+/-0.004 χ^2/NDF : 6972062.9/53

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -2.795 ± 85.508 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 193.227 ± 91.801 $\chi^2/\text{NDF}: 4.7/9$

Right Out: -115.753 ± 78.952 $\chi^2/\text{NDF}: 13.8/18$

Left In: 176.108 ± 72.377 $\chi^2/\text{NDF}: 3.9/8$

Left: 182.670 ± 56.837 $\chi^2/\text{NDF}: 8.7/18$

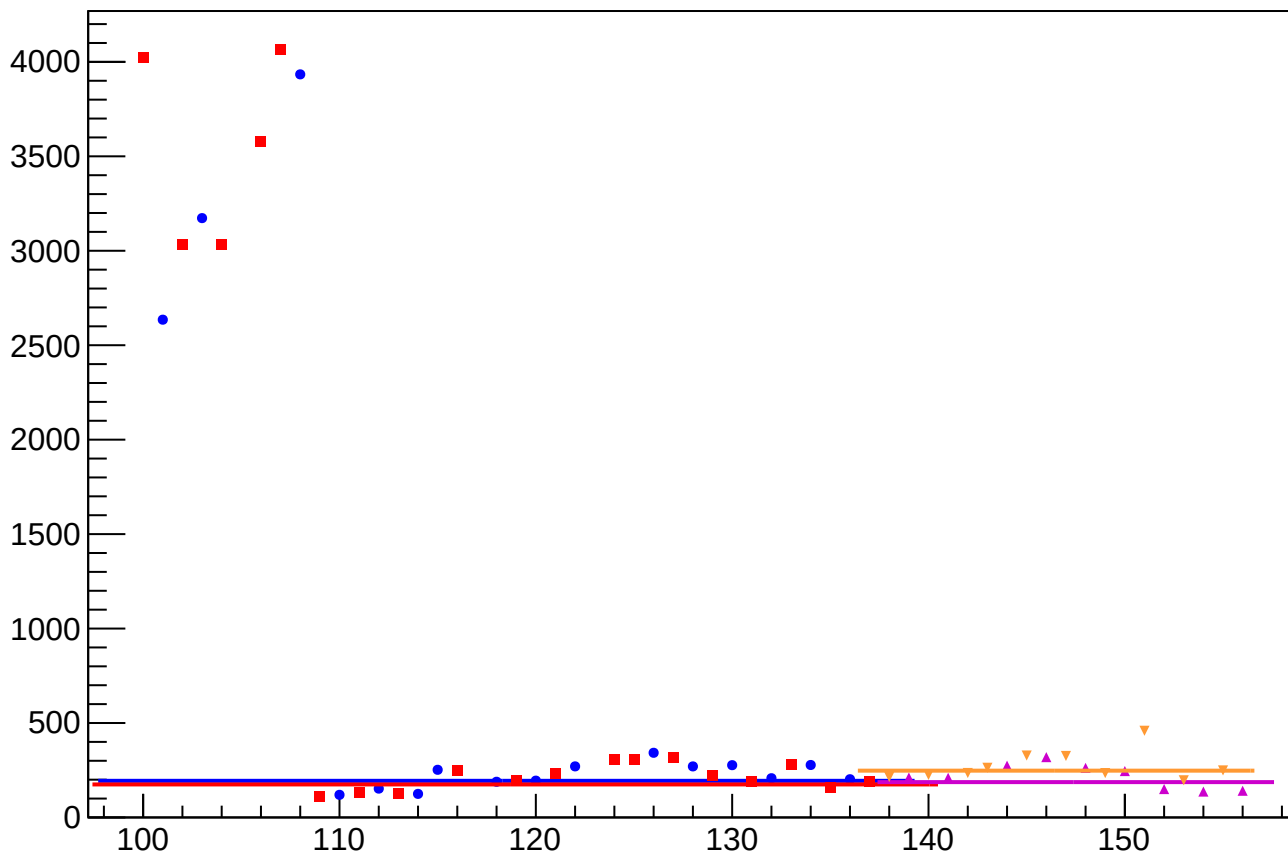
Right: -63.770 ± 58.007 $\chi^2/\text{NDF}: 33.0/34$

In: 101.433 ± 55.244 $\chi^2/\text{NDF}: 24.7/24$

Out: 15.618 ± 59.859 $\chi^2/\text{NDF}: 25.0/28$

All: 61.961 ± 40.597 $\chi^2/\text{NDF}: 50.9/53$

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: 247.761+/-0.065 χ^2/NDF : 700669.8/9

Right Out: 174.779+/-0.056 χ^2/NDF : 4259323.6/18

Left In: 187.074+/-0.051 χ^2/NDF : 1205448.9/8

Left: 210.336+/-0.040 χ^2/NDF : 2445113.6/18

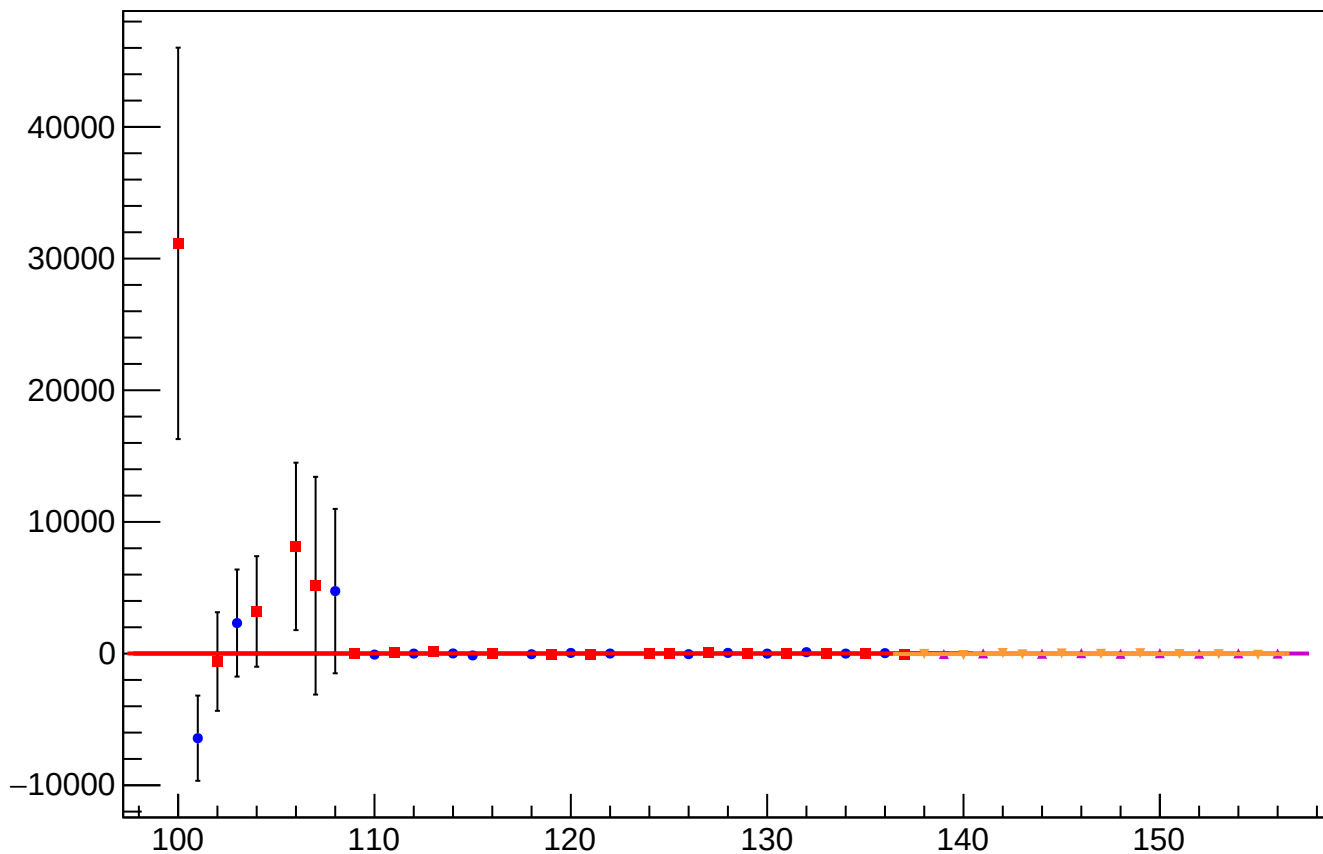
Right: 183.600+/-0.041 χ^2/NDF : 8098034.9/34

In: 189.942+/-0.039 χ^2/NDF : 4997443.6/24

Out: 205.809+/-0.042 χ^2/NDF : 5686587.6/28

All: 197.241+/-0.029 χ^2/NDF : 10759920.4/53

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: -34.379+/-12.534 χ^2/NDF :12.5/9

Right Out: 10.003+/-14.433 χ^2/NDF : 23.4/18

Left In: 5.456+/-12.624 χ^2/NDF :2.6/8

Left: -14.605+/-8.894 χ^2/NDF : 20.2/18

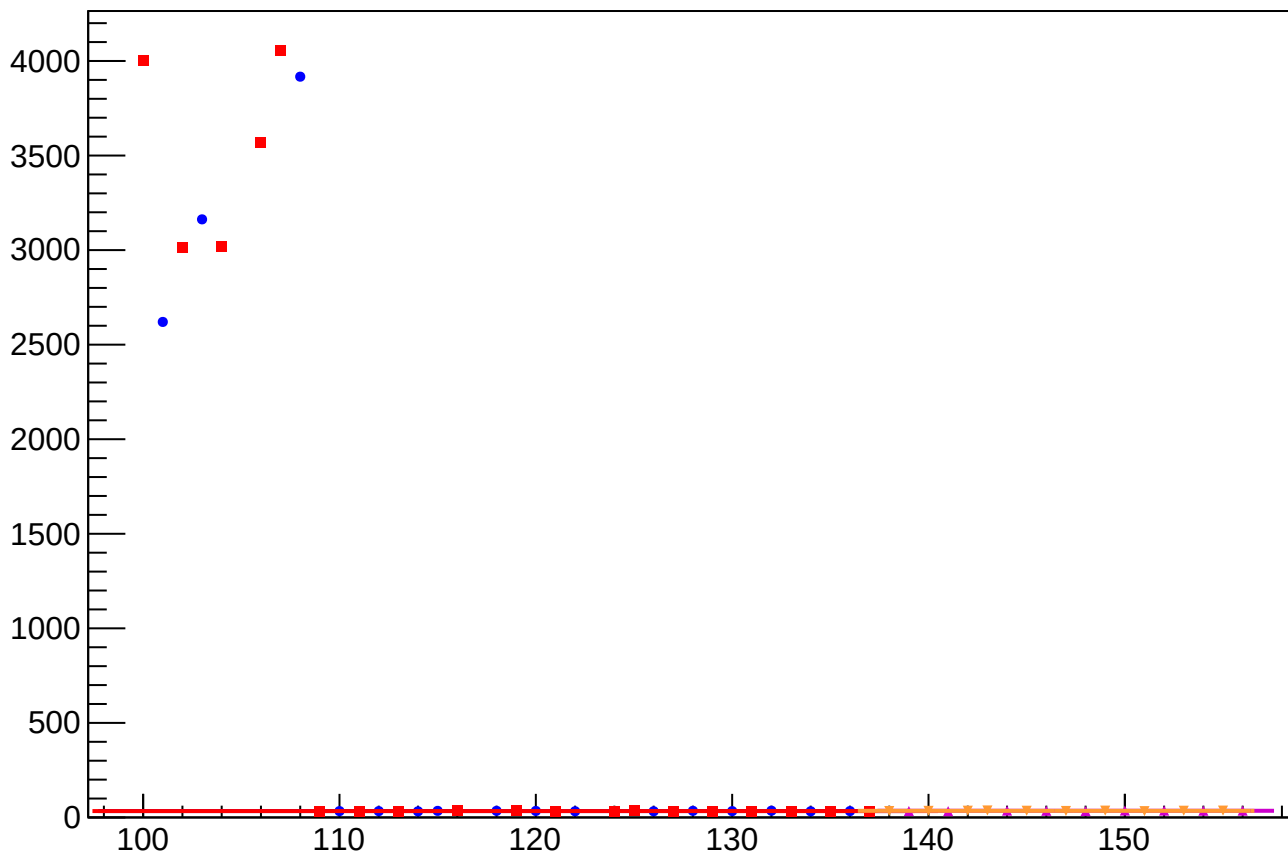
Right: 7.813+/-10.160 χ^2/NDF : 40.9/34

In: 5.545+/-9.466 χ^2/NDF :20.1/24

Out: -15.298+/-9.463 χ^2/NDF :41.3/28

All: -4.879+/-6.692 χ^2/NDF : 63.8/53

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: 35.053+/-0.009 χ^2/NDF :14938.3/9

Right Out: 33.726+/-0.010 χ^2/NDF : 3526463.8/18

Left In: 35.279+/-0.009 χ^2/NDF :15742.3/8

Left: 35.165+/-0.006 χ^2/NDF : 31003.6/18

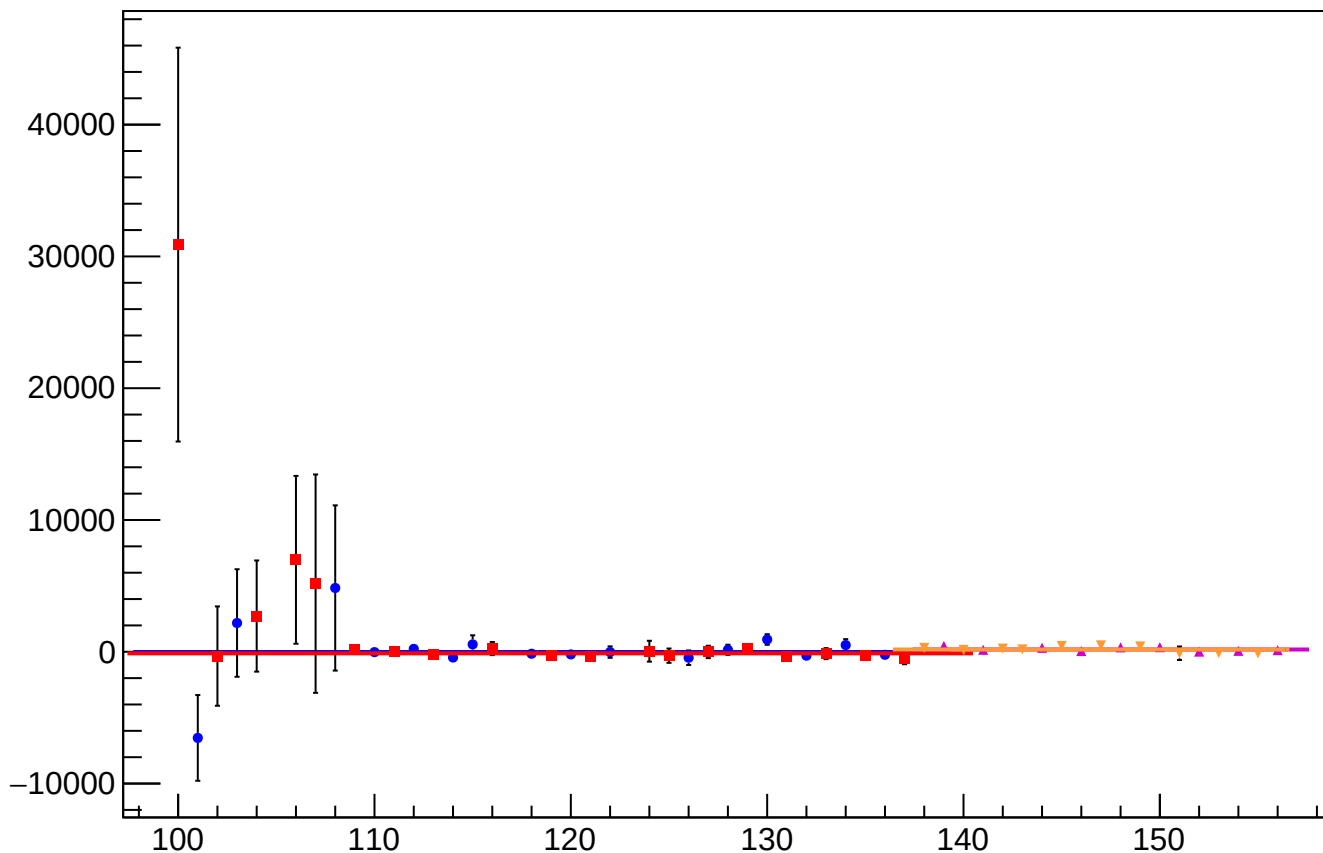
Right: 33.814+/-0.007 χ^2/NDF : 6770991.8/34

In: 34.675+/-0.007 χ^2/NDF :3270582.5/24

Out: 34.483+/-0.007 χ^2/NDF :3551039.3/28

All: 34.579+/-0.005 χ^2/NDF : 6822035.7/53

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -19.522 ± 85.063 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 172.295 ± 91.343 $\chi^2/\text{NDF}: 5.2/9$

Right Out: -119.922 ± 78.455 $\chi^2/\text{NDF}: 13.3/18$

Left In: 172.046 ± 72.120 $\chi^2/\text{NDF}: 3.6/8$

Left: 172.141 ± 56.604 $\chi^2/\text{NDF}: 8.8/18$

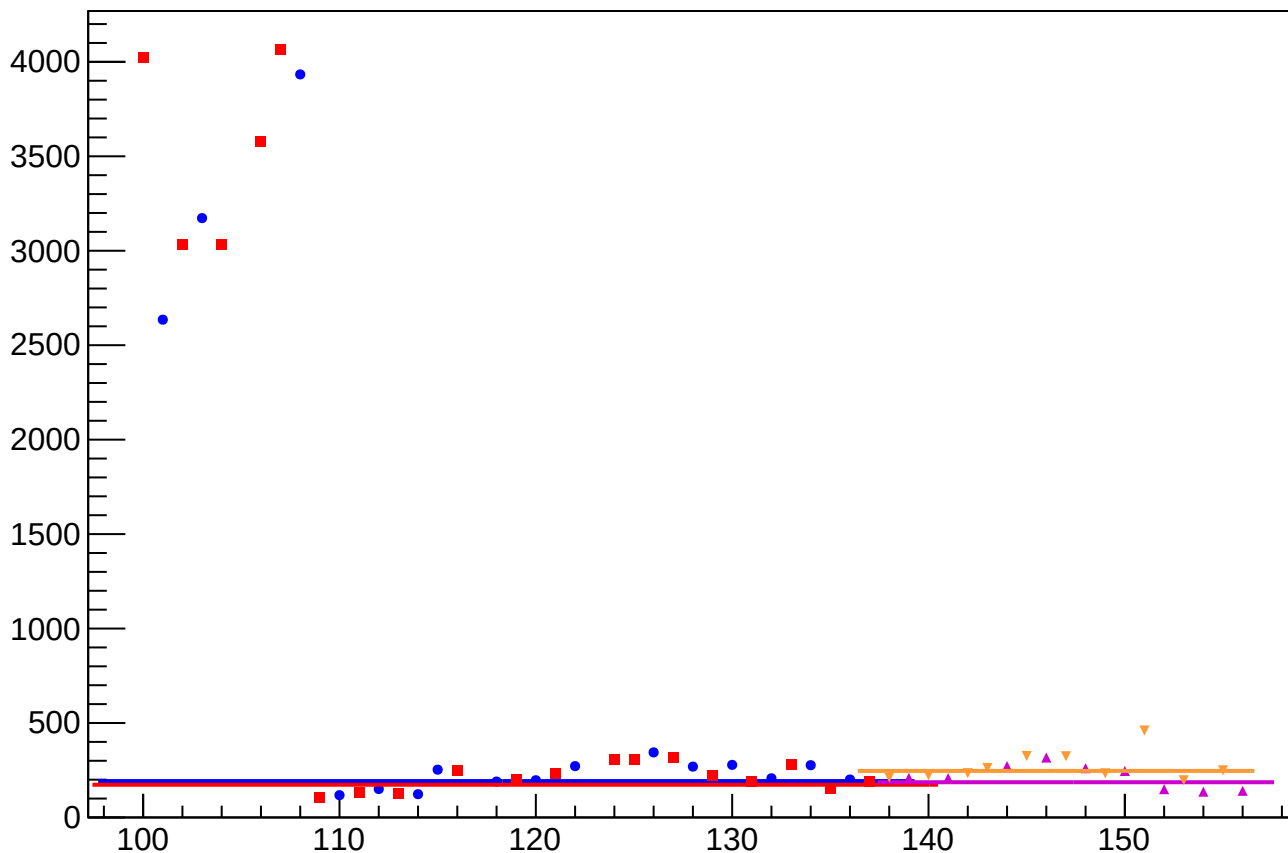
Right: -73.773 ± 57.671 $\chi^2/\text{NDF}: 32.2/34$

In: 91.930 ± 55.010 $\chi^2/\text{NDF}: 24.7/24$

Out: 4.133 ± 59.516 $\chi^2/\text{NDF}: 24.4/28$

All: 51.480 ± 40.397 $\chi^2/\text{NDF}: 50.3/53$

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.560+/-0.060 χ^2/NDF : 3822789.1/15

Left Out: 246.455+/-0.065 χ^2/NDF : 706329.6/9

Right Out: 173.249+/-0.055 χ^2/NDF : 4307420.2/18

Left In: 186.416+/-0.051 χ^2/NDF : 1194908.8/8

Left: 209.471+/-0.040 χ^2/NDF : 2433481.0/18

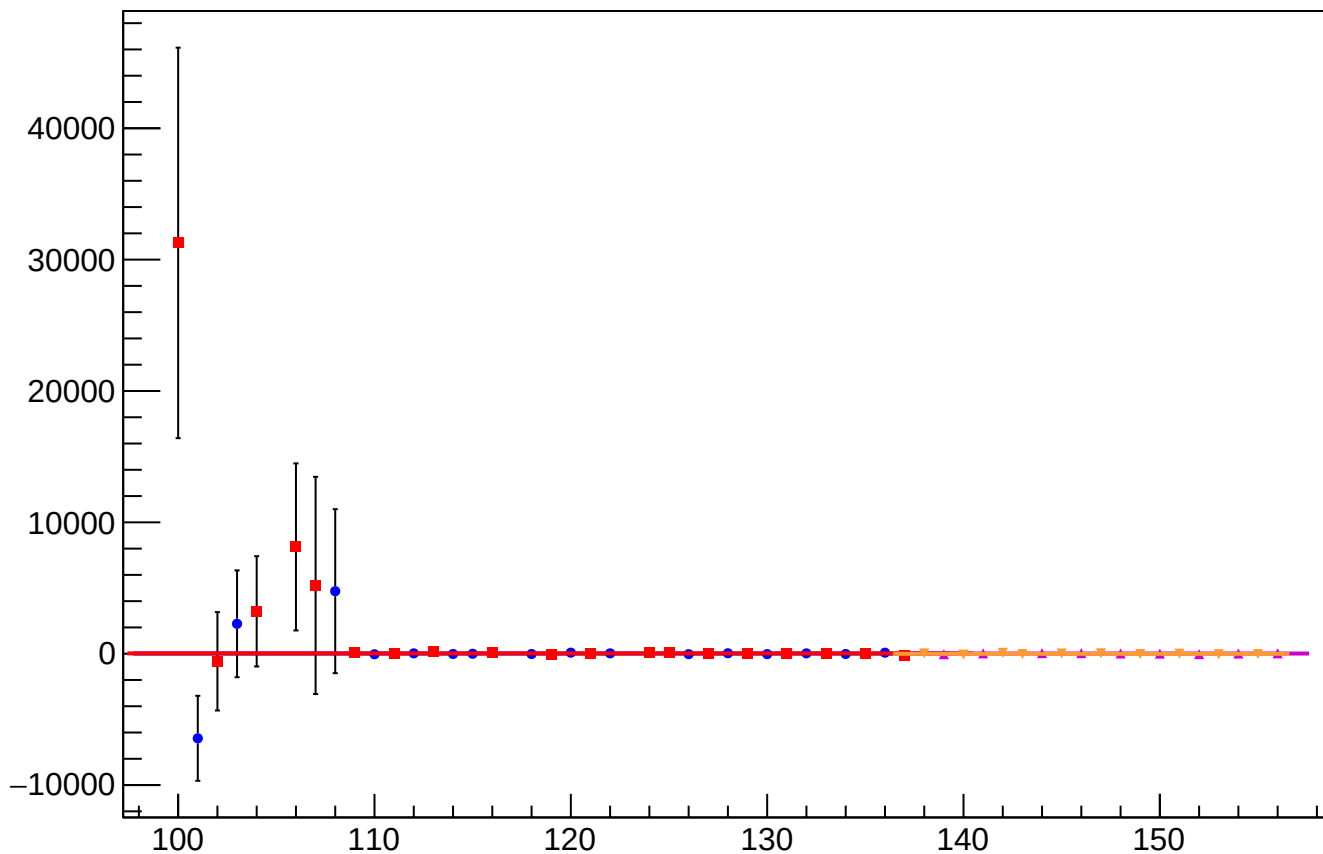
Right: 182.125+/-0.041 χ^2/NDF : 8185907.1/34

In: 188.986+/-0.039 χ^2/NDF : 5023767.8/24

Out: 204.327+/-0.042 χ^2/NDF : 5752993.7/28

All: 196.054+/-0.029 χ^2/NDF : 10848426.3/53

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: -10.194+/-11.481 χ^2/NDF : 9.2/9

Right Out: 23.230+/-13.181 χ^2/NDF : 28.7/18

Left In: 13.360+/-11.530 χ^2/NDF : 6.1/8

Left: 1.533+/-8.136 χ^2/NDF : 17.4/18

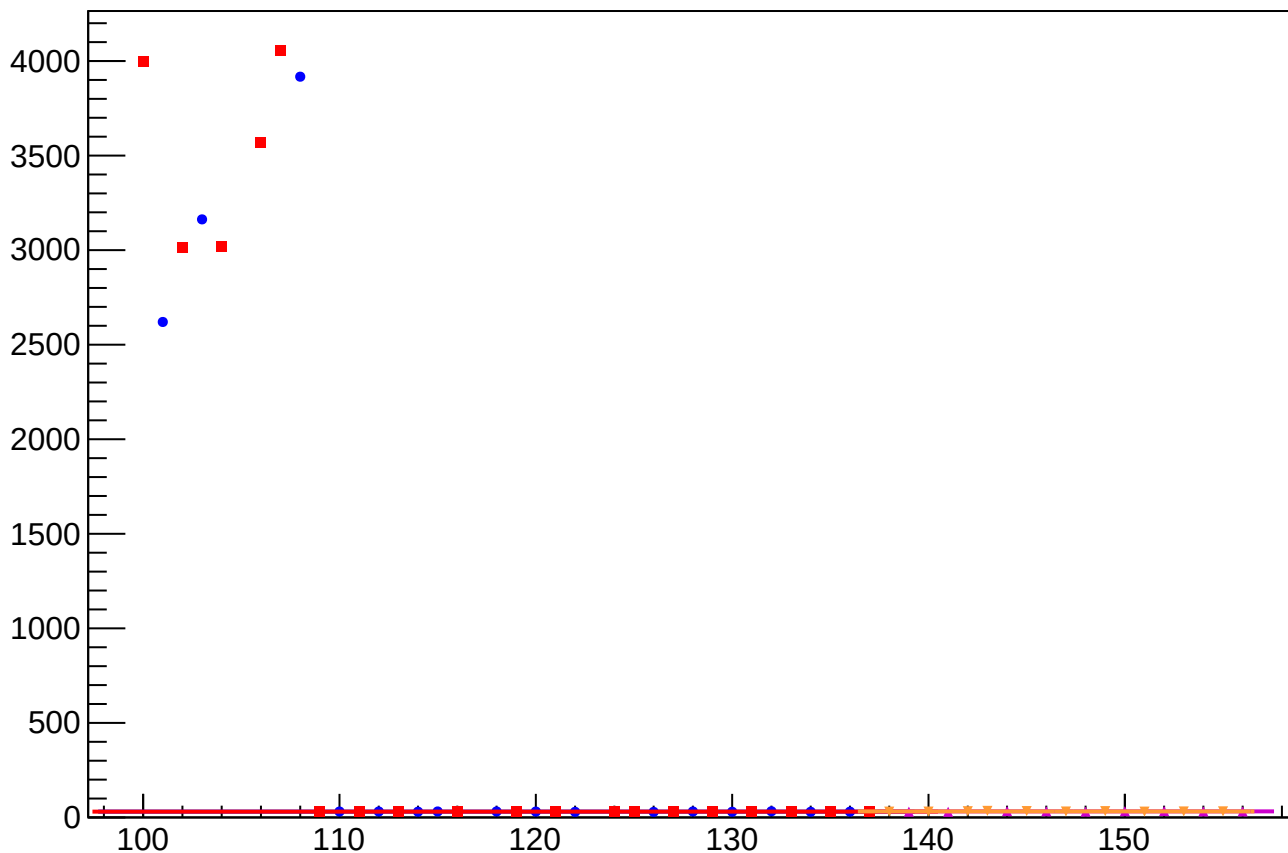
Right: 18.428+/-9.278 χ^2/NDF : 44.4/34

In: 13.515+/-8.644 χ^2/NDF : 21.5/24

Out: 4.225+/-8.657 χ^2/NDF : 41.6/28

All: 8.877+/-6.117 χ^2/NDF : 63.7/53

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: 32.077+/-0.008 χ^2 /NDF:25322.4/9

Right Out: 30.777+/-0.009 χ^2 /NDF: 3536234.6/18

Left In: 32.171+/-0.008 χ^2 /NDF:28234.9/8

Left: 32.124+/-0.006 χ^2 /NDF: 53624.2/18

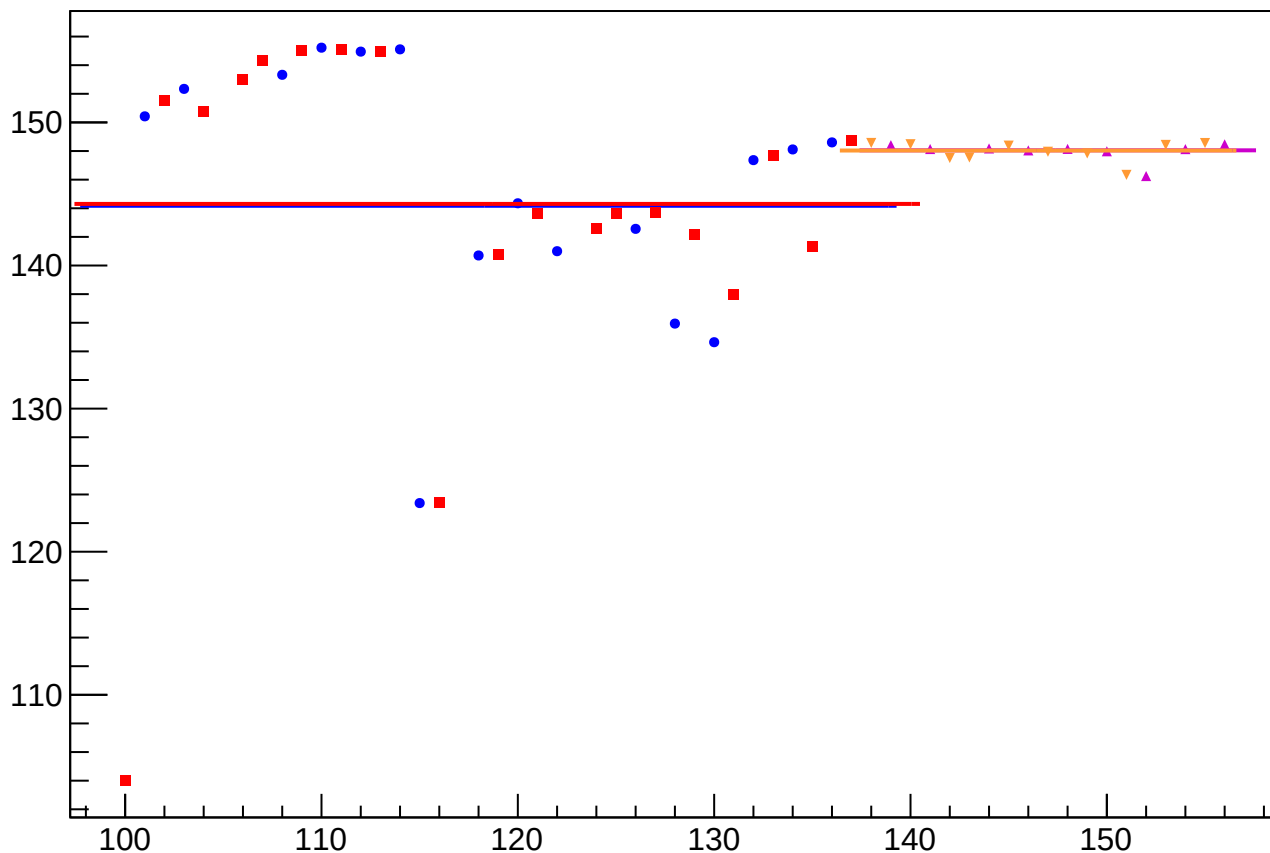
Right: 30.853+/-0.007 χ^2 /NDF: 6788975.5/34

In: 31.627+/-0.006 χ^2 /NDF:3291016.0/24

Out: 31.516+/-0.006 χ^2 /NDF:3572616.2/28

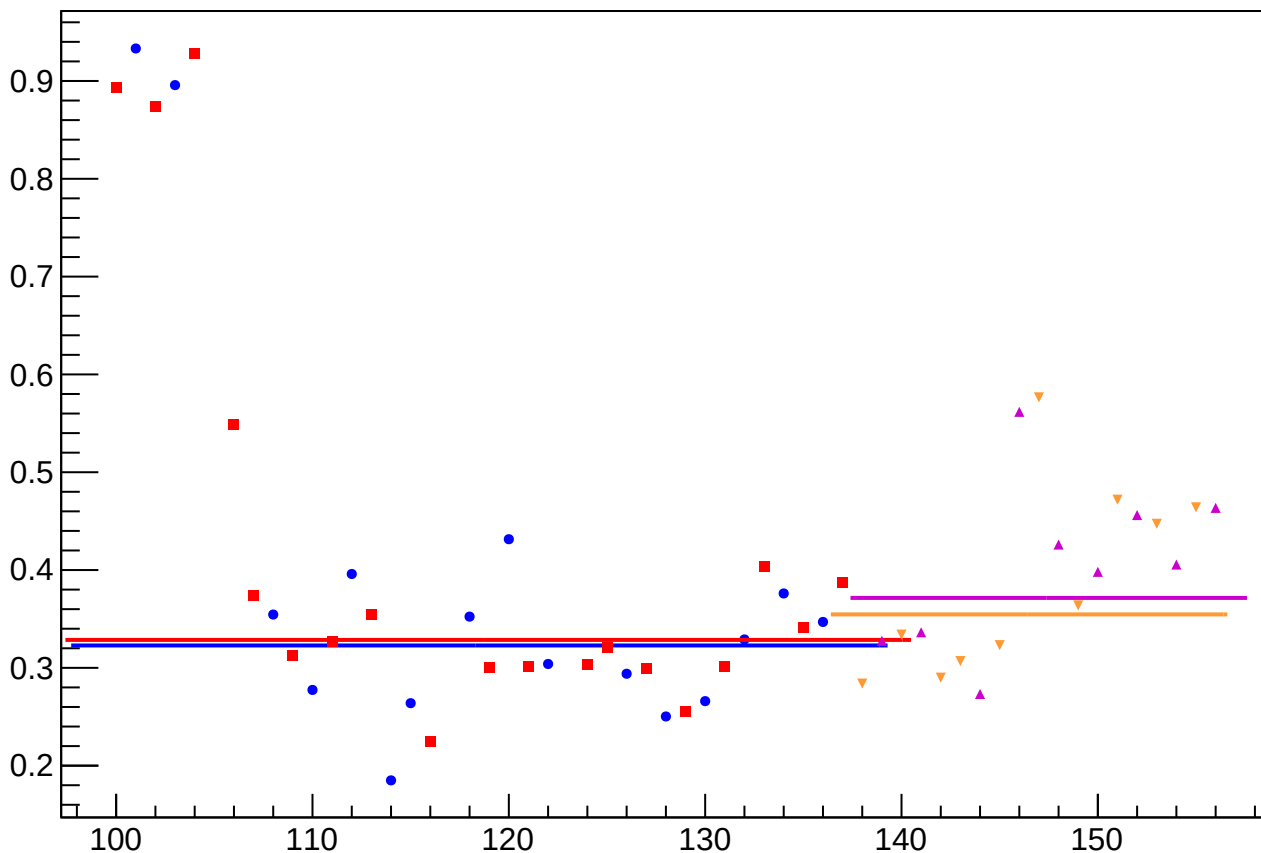
All: 31.572+/-0.004 χ^2 /NDF: 6863796.2/53

yield_bcm_target_mean vs Slug, Sign Corrected



Right In: 144.176+/-0.000	χ^2/NDF : 3724747268.7/15	Left: 148.043+/-0.000	χ^2/NDF : 34689828.3/18
Left Out: 148.037+/-0.000	χ^2/NDF : 20164714.6/9	Right: 144.240+/-0.000	χ^2/NDF : 7989709366.0/34
Right Out: 144.304+/-0.000	χ^2/NDF : 4264494940.7/18	In: 146.022+/-0.000	χ^2/NDF : 4147368864.9/24
Left In: 148.050+/-0.000	χ^2/NDF : 14520264.9/8	Out: 146.175+/-0.000	χ^2/NDF : 4678766448.8/28
		All: 146.100+/-0.000	χ^2/NDF : 8827427067.7

yield_bcm_target_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.355+/-0.000 χ^2/NDF : 674825.5/9

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.372+/-0.000 χ^2/NDF : 628192.5/8

Left: 0.363+/-0.000 χ^2/NDF : 1318431.7/18

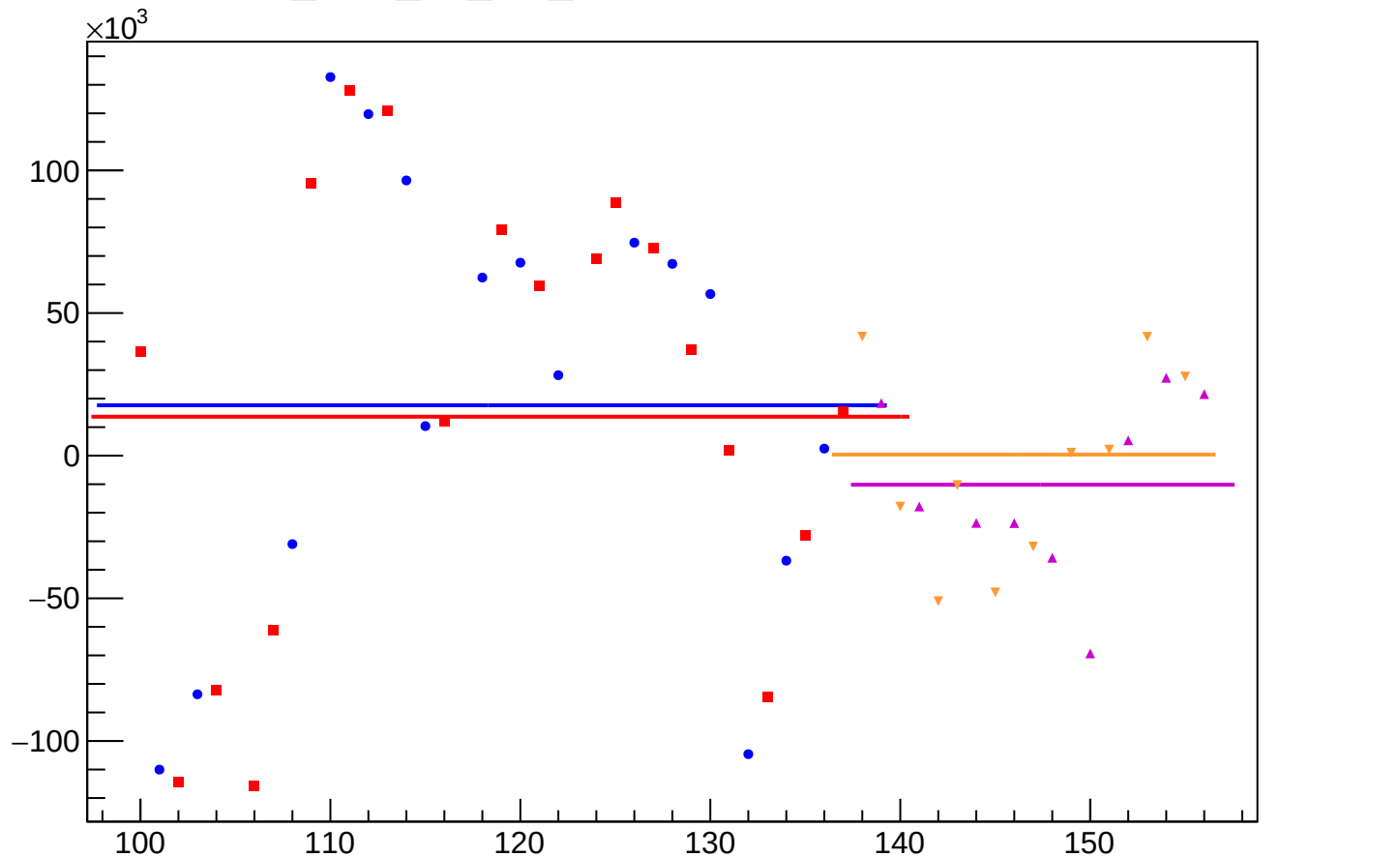
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.346+/-0.000 χ^2/NDF : 2152747.0/24

Out: 0.342+/-0.000 χ^2/NDF : 2017445.8/28

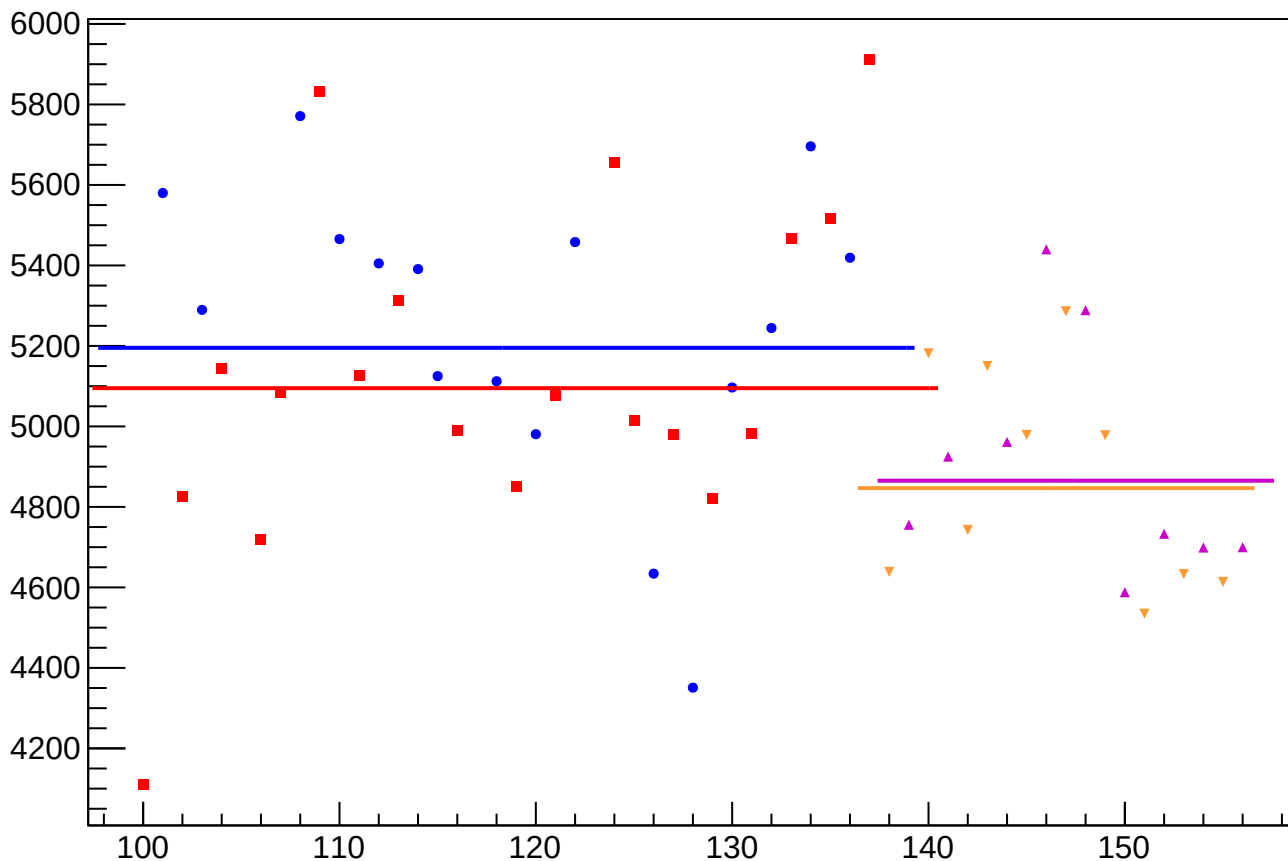
All: 0.344+/-0.000 χ^2/NDF : 4172363.0/53

yield_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: 17663.790 ± 2.006 $\chi^2/\text{NDF}: 1398738701.8/15$ Left: -4861.406 ± 1.266 $\chi^2/\text{NDF}: 632927778.4/18$
 Left Out: 385.722 ± 1.785 $\chi^2/\text{NDF}: 312375198.4/9$ Right: 15583.102 ± 1.389 $\chi^2/\text{NDF}: 3257769505.5/3$
 Right Out: 13666.312 ± 1.925 $\chi^2/\text{NDF}: 1856962869.6/18$ In: 2210.247 ± 1.338 $\chi^2/\text{NDF}: 1808841920.3/24$
 Out: 6524.426 ± 1.309 $\chi^2/\text{NDF}: 2194936090.7/28$ Left In: -10170.260 ± 1.795 $\chi^2/\text{NDF}: 303161253.3/8$
 All: 4414.354 ± 0.935 $\chi^2/\text{NDF}: 4009093122.2/100$

yield_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 5195.298+/-1.418 χ^2/NDF : 77166.0/15

Left Out: 4846.710+/-1.262 χ^2/NDF : 42968.7/9

Right Out: 5095.047+/-1.361 χ^2/NDF : 59112.0/18

Left In: 4865.160+/-1.269 χ^2/NDF : 41265.8/8

Left: 4855.881+/-0.895 χ^2/NDF : 84340.7/18

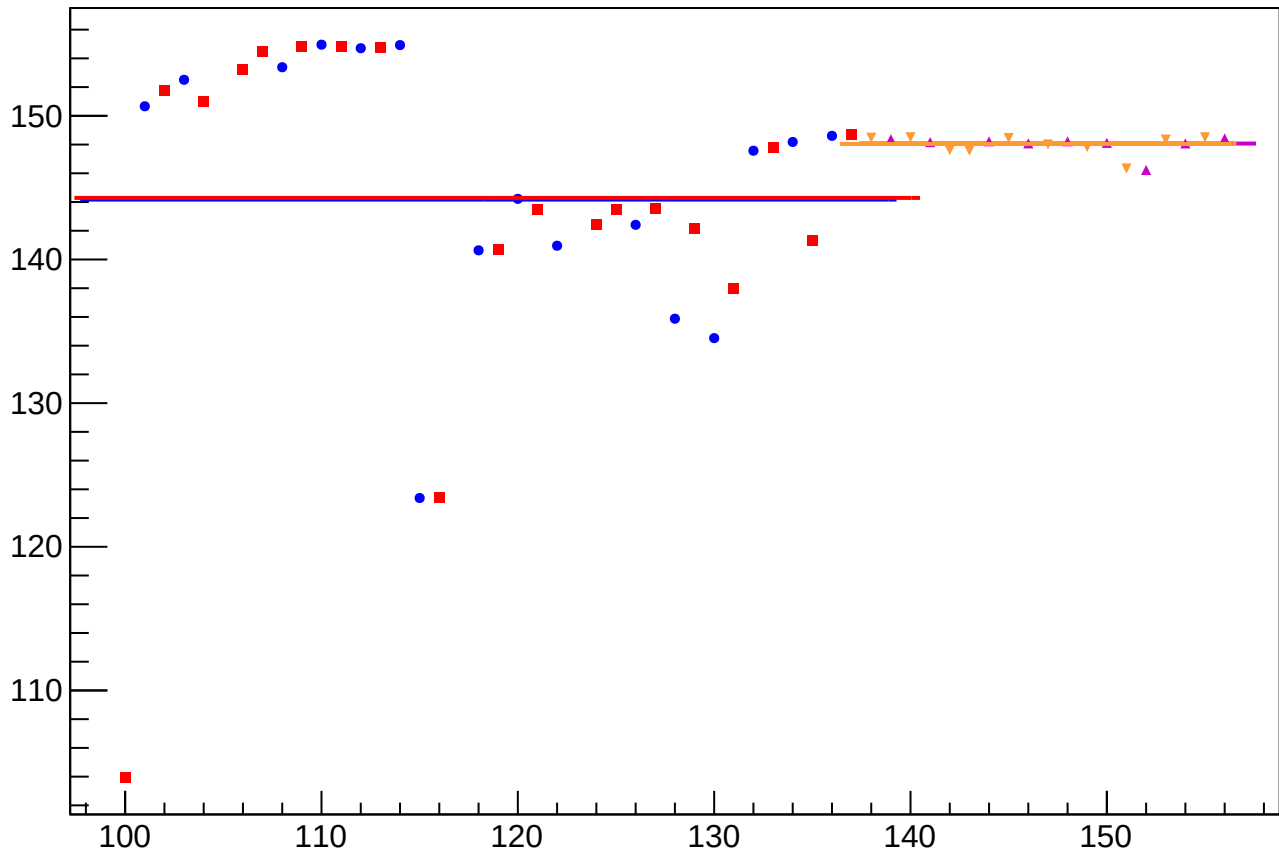
Right: 5143.118+/-0.982 χ^2/NDF : 138879.2/34

In: 5012.005+/-0.946 χ^2/NDF : 148521.4/24

Out: 4961.499+/-0.925 χ^2/NDF : 119982.1/28

All: 4986.202+/-0.661 χ^2/NDF : 269960.4/53

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.172 $\pm$ 0.000 χ^2 /NDF: 3764836520.0/15

Left Out: 148.043 $\pm$ 0.000 χ^2 /NDF: 19102189.6/9

Right Out: 144.286 $\pm$ 0.000 χ^2 /NDF: 4290223847.7/18

Left In: 148.072 $\pm$ 0.000 χ^2 /NDF: 14937495.8/8

Left: 148.056 $\pm$ 0.000 χ^2 /NDF: 34063053.6/18

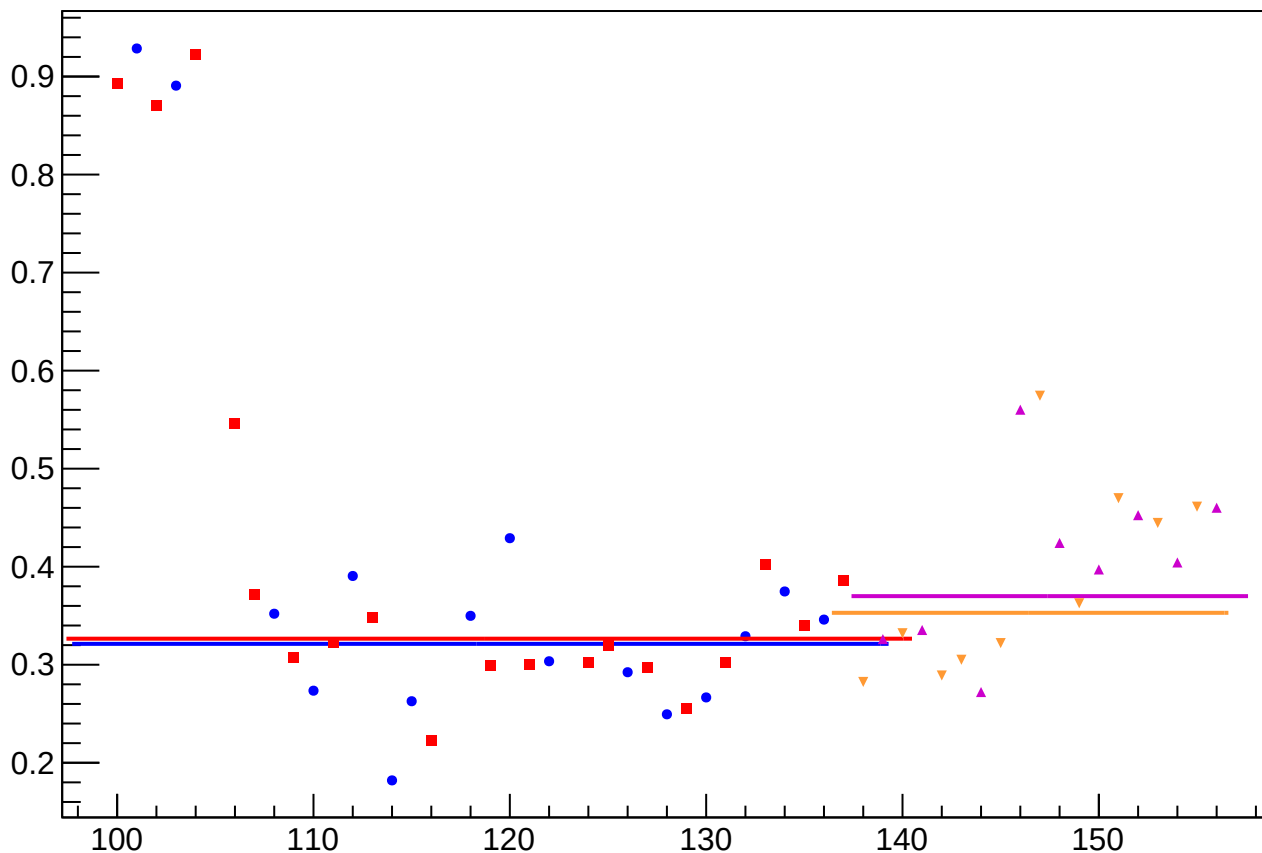
Right: 144.229 $\pm$ 0.000 χ^2 /NDF: 8055437753.5/34

In: 146.029 $\pm$ 0.000 χ^2 /NDF: 4197194310.9/24

Out: 146.166 $\pm$ 0.000 χ^2 /NDF: 4712810546.3/28

All: 146.099 $\pm$ 0.000 χ^2 /NDF: 8911071244.7

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.321+/-0.000 χ^2/NDF : 1396250.7/15

Left Out: 0.353+/-0.000 χ^2/NDF : 674721.2/9

Right Out: 0.327+/-0.000 χ^2/NDF : 1302732.4/18

Left In: 0.370+/-0.000 χ^2/NDF : 625836.4/8

Left: 0.361+/-0.000 χ^2/NDF : 1316386.4/18

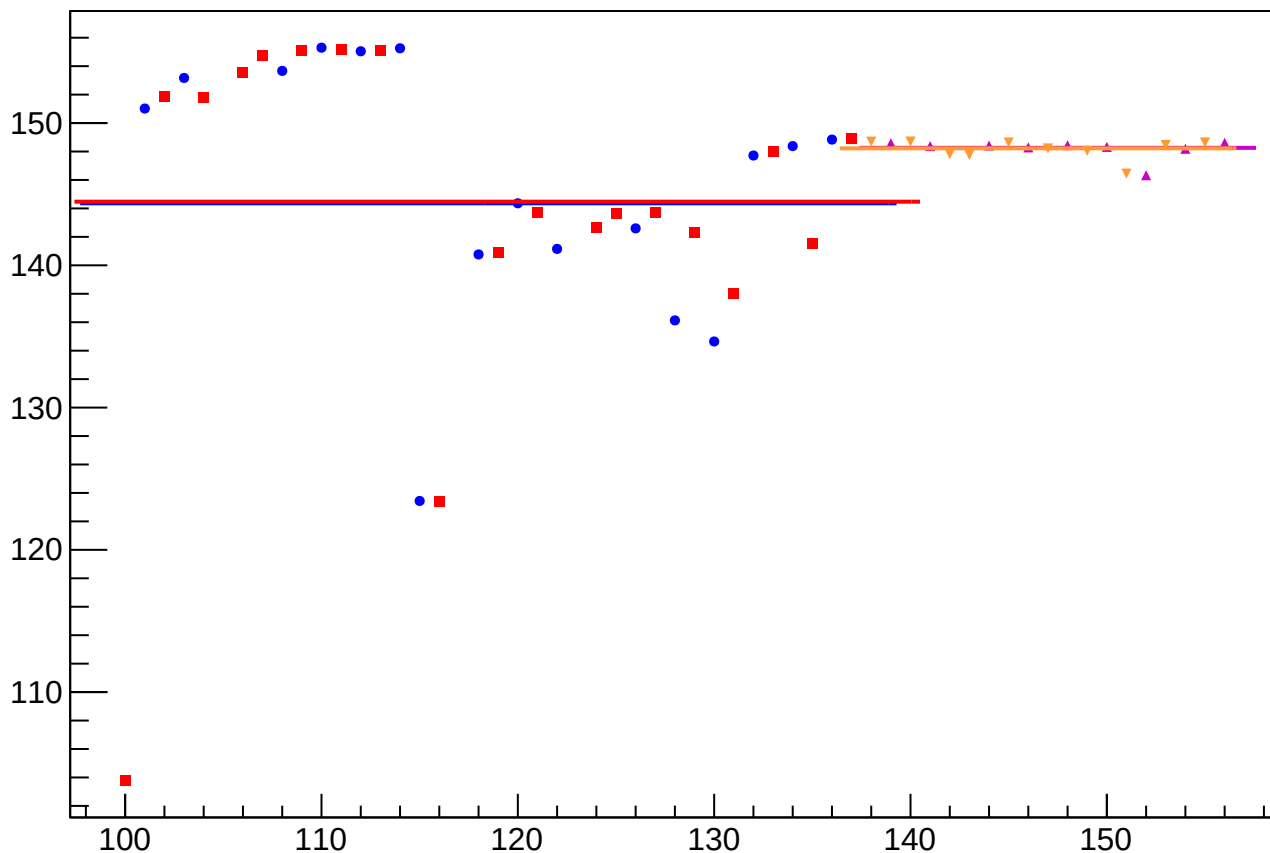
Right: 0.324+/-0.000 χ^2/NDF : 2700575.6/34

In: 0.344+/-0.000 χ^2/NDF : 2152115.4/24

Out: 0.340+/-0.000 χ^2/NDF : 2017304.9/28

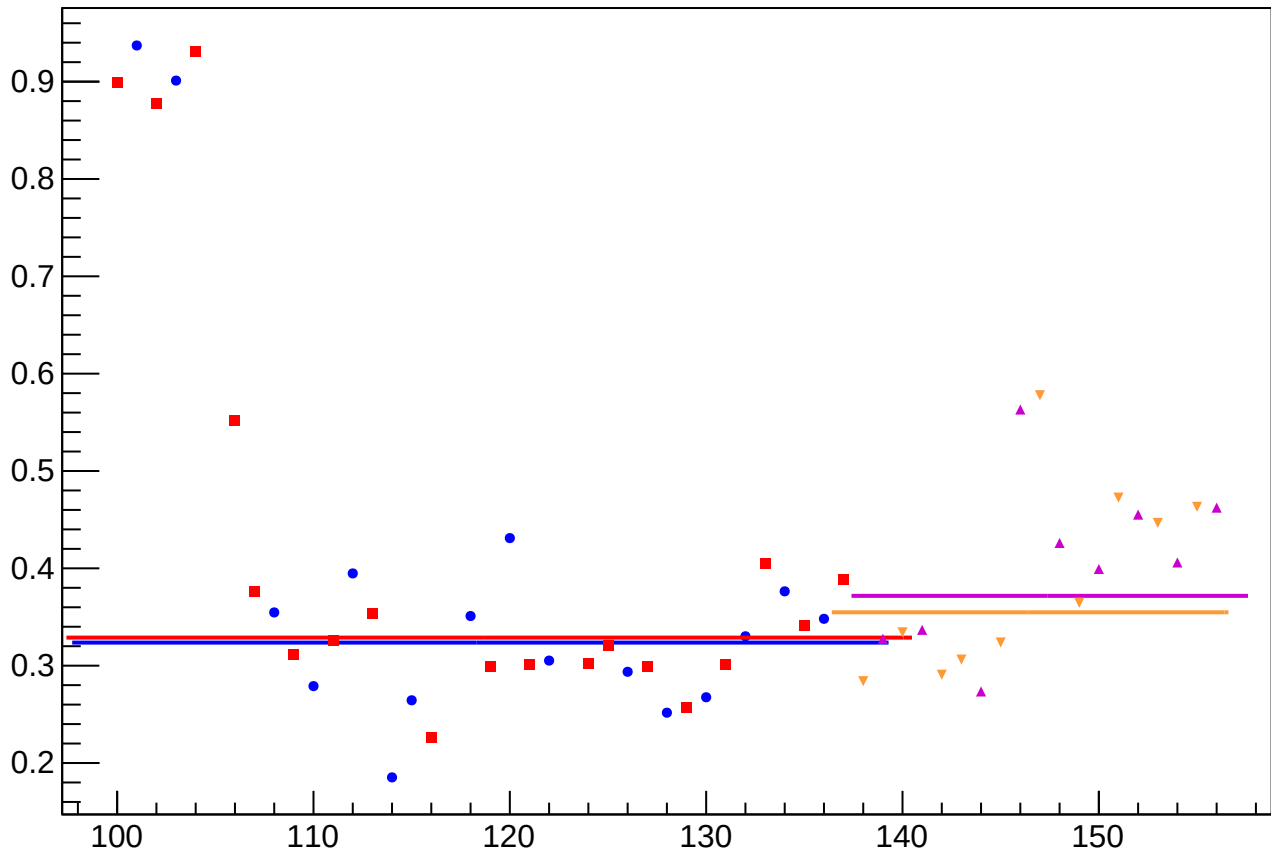
All: 0.342+/-0.000 χ^2/NDF : 4171891.4/53

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.361+/-0.000	χ^2/NDF : 3758625293.6/15	Left: 148.240+/-0.000	χ^2/NDF : 35820288.5/18
Left Out: 148.224+/-0.000	χ^2/NDF : 19529949.9/9	Right: 144.417+/-0.000	χ^2/NDF : 8040967165.8/34
Right Out: 144.475+/-0.000	χ^2/NDF : 4281975463.8/18	In: 146.221+/-0.000	χ^2/NDF : 4186904388.9/24
Left In: 148.259+/-0.000	χ^2/NDF : 16256624.3/8	Out: 146.354+/-0.000	χ^2/NDF : 4698617527.3/28
		All: 146.289+/-0.000	χ^2/NDF : 8886495697.4

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.000 χ^2 /NDF: 1392377.9/15

Left Out: 0.355 $\pm$ 0.000 χ^2 /NDF:674318.0/9

Right Out: 0.329 $\pm$ 0.000 χ^2 /NDF: 1303222.2/18

Left In: 0.372 $\pm$ 0.000 χ^2 /NDF:626332.9/8

Left: 0.363 $\pm$ 0.000 χ^2 /NDF: 1316130.2/18

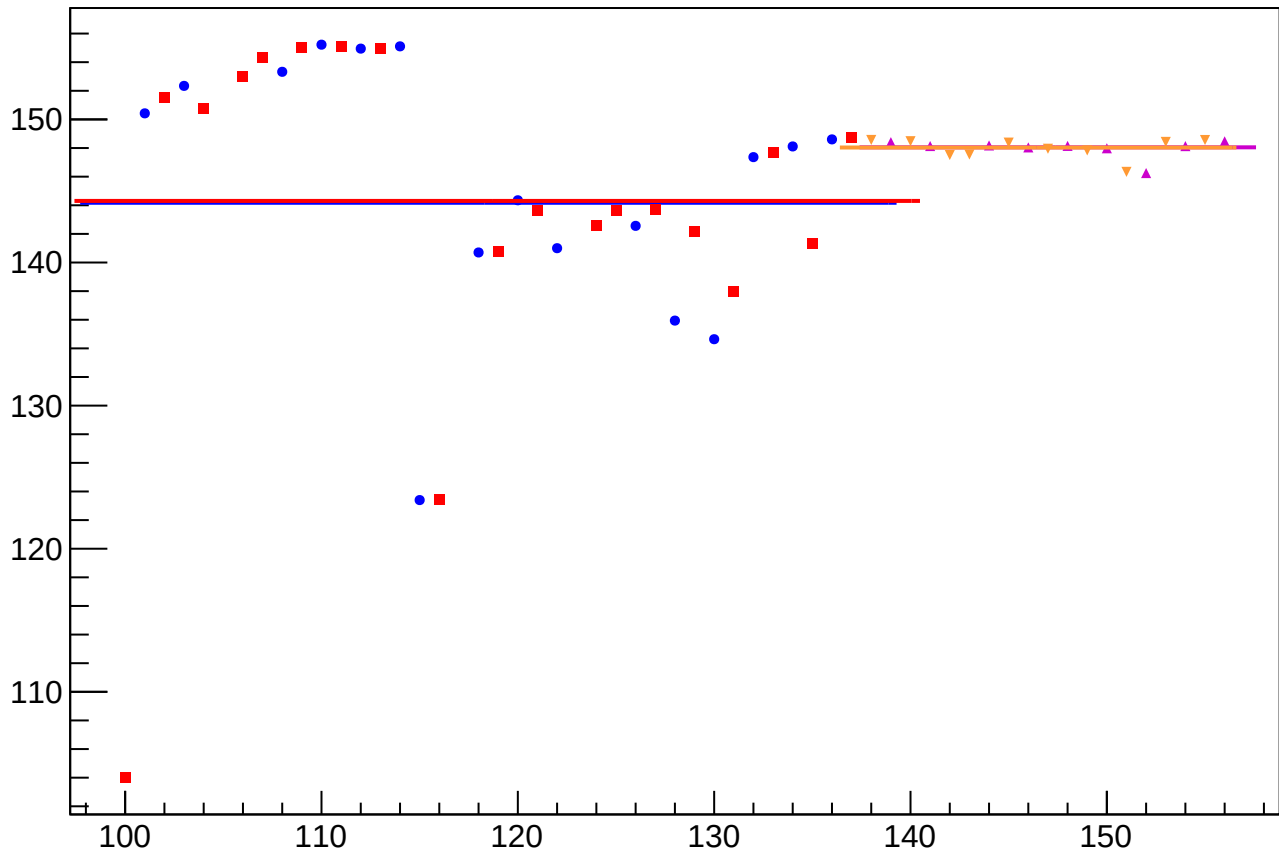
Right: 0.326 $\pm$ 0.000 χ^2 /NDF: 2697075.5/34

In: 0.347 $\pm$ 0.000 χ^2 /NDF:2143796.2/24

Out: 0.342 $\pm$ 0.000 χ^2 /NDF:2015781.4/28

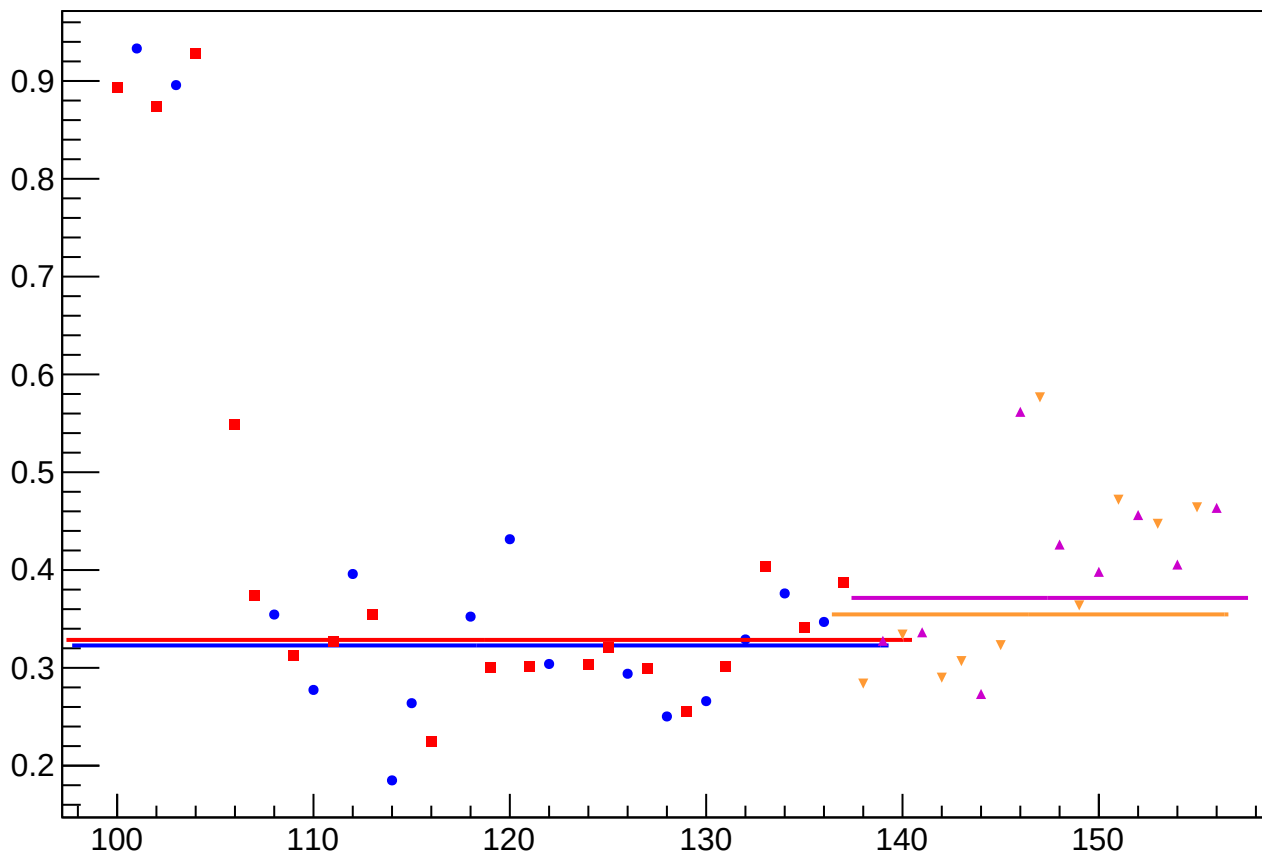
All: 0.344 $\pm$ 0.000 χ^2 /NDF: 4162105.2/53

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.176+/-0.000	χ^2/NDF : 3724747268.7/15	Left: 148.043+/-0.000	χ^2/NDF : 34689828.3/18
Left Out: 148.037+/-0.000	χ^2/NDF : 20164714.6/9	Right: 144.240+/-0.000	χ^2/NDF : 7989709366.0/34
Right Out: 144.304+/-0.000	χ^2/NDF : 4264494940.7/18	In: 146.022+/-0.000	χ^2/NDF : 4147368864.9/24
Left In: 148.050+/-0.000	χ^2/NDF : 14520264.9/8	Out: 146.175+/-0.000	χ^2/NDF : 4678766448.8/28
		All: 146.100+/-0.000	χ^2/NDF : 8827427067.7

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.355+/-0.000 χ^2/NDF : 674825.5/9

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.372+/-0.000 χ^2/NDF : 628192.5/8

Left: 0.363+/-0.000 χ^2/NDF : 1318431.7/18

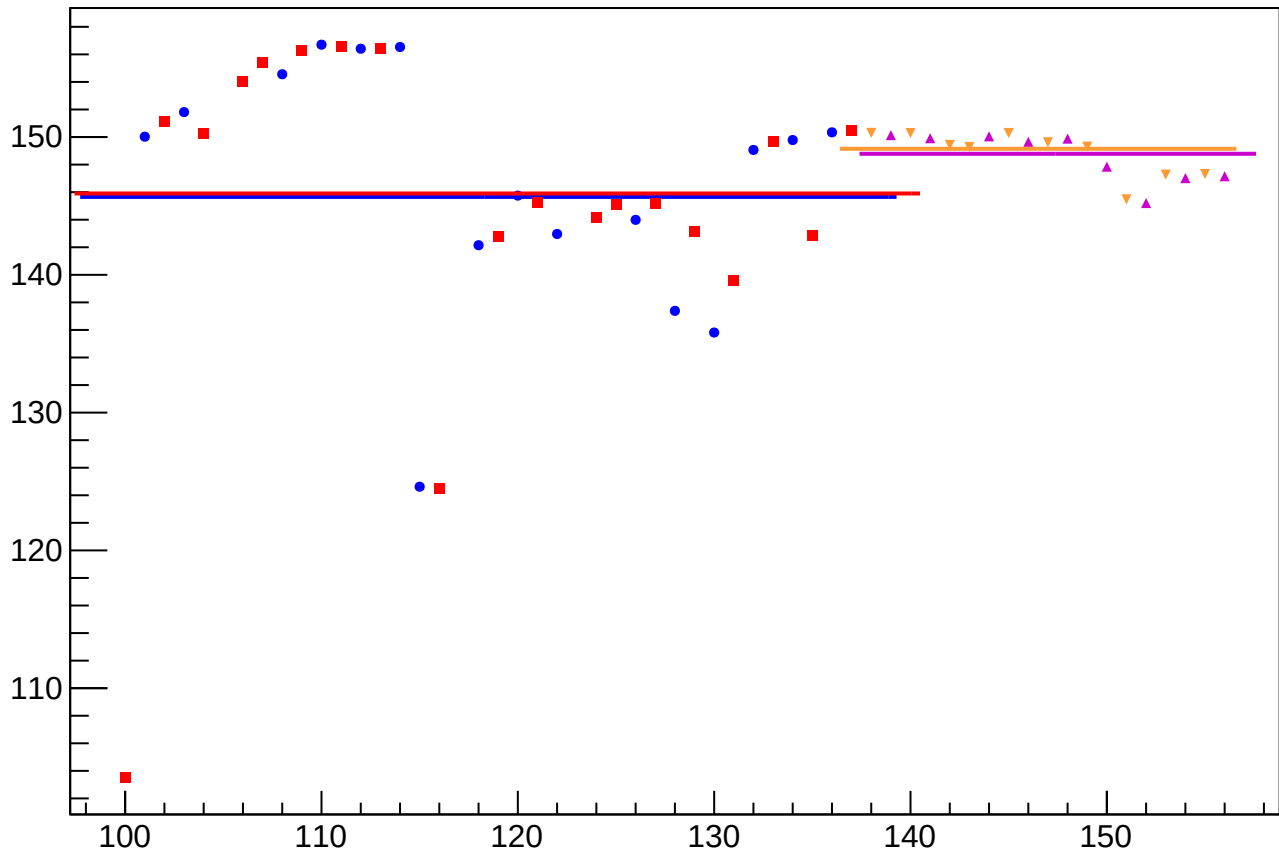
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.346+/-0.000 χ^2/NDF : 2152747.0/24

Out: 0.342+/-0.000 χ^2/NDF : 2017445.8/28

All: 0.344+/-0.000 χ^2/NDF : 4172363.0/53

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 145.657+/-0.000 χ^2/NDF : 3481495345.2/15

Left Out: 149.148+/-0.000 χ^2/NDF : 101468141.4/9

Right Out: 145.904+/-0.000 χ^2/NDF : 3863011865.2/18

Left In: 148.785+/-0.000 χ^2/NDF : 123683400.3/8

Left: 148.973+/-0.000 χ^2/NDF : 228366072.1/18

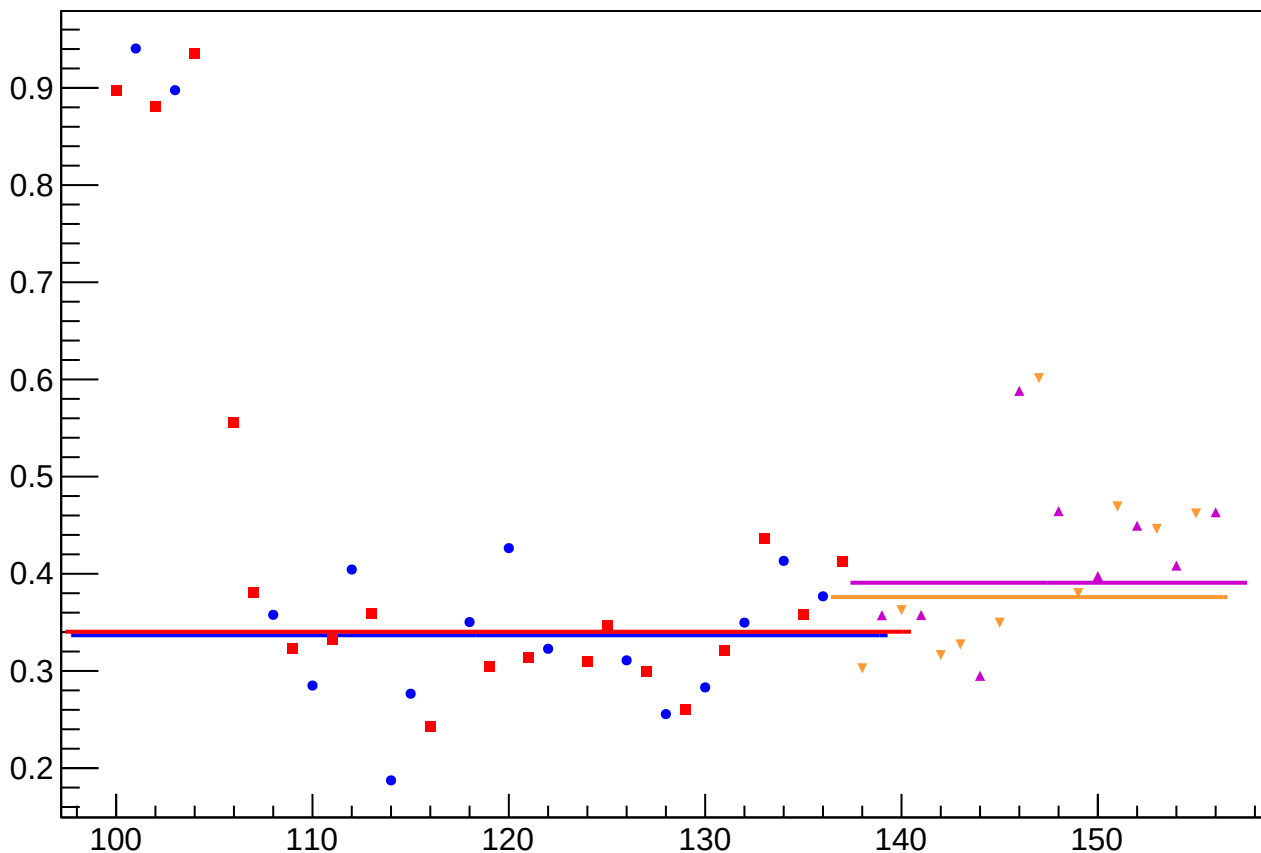
Right: 145.781+/-0.000 χ^2/NDF : 7346117767.9/34

In: 147.141+/-0.000 χ^2/NDF : 3848643010.9/24

Out: 147.496+/-0.000 χ^2/NDF : 4235843532.3/28

All: 147.321+/-0.000 χ^2/NDF : 8090880903.9

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2/NDF : 1370512.1/15

Left Out: 0.376 $\pm$ 0.000 χ^2/NDF :532369.8/9

Right Out: 0.340 $\pm$ 0.000 χ^2/NDF : 1274717.4/18

Left In: 0.391 $\pm$ 0.000 χ^2/NDF :508659.9/8

Left: 0.383 $\pm$ 0.000 χ^2/NDF : 1051696.9/18

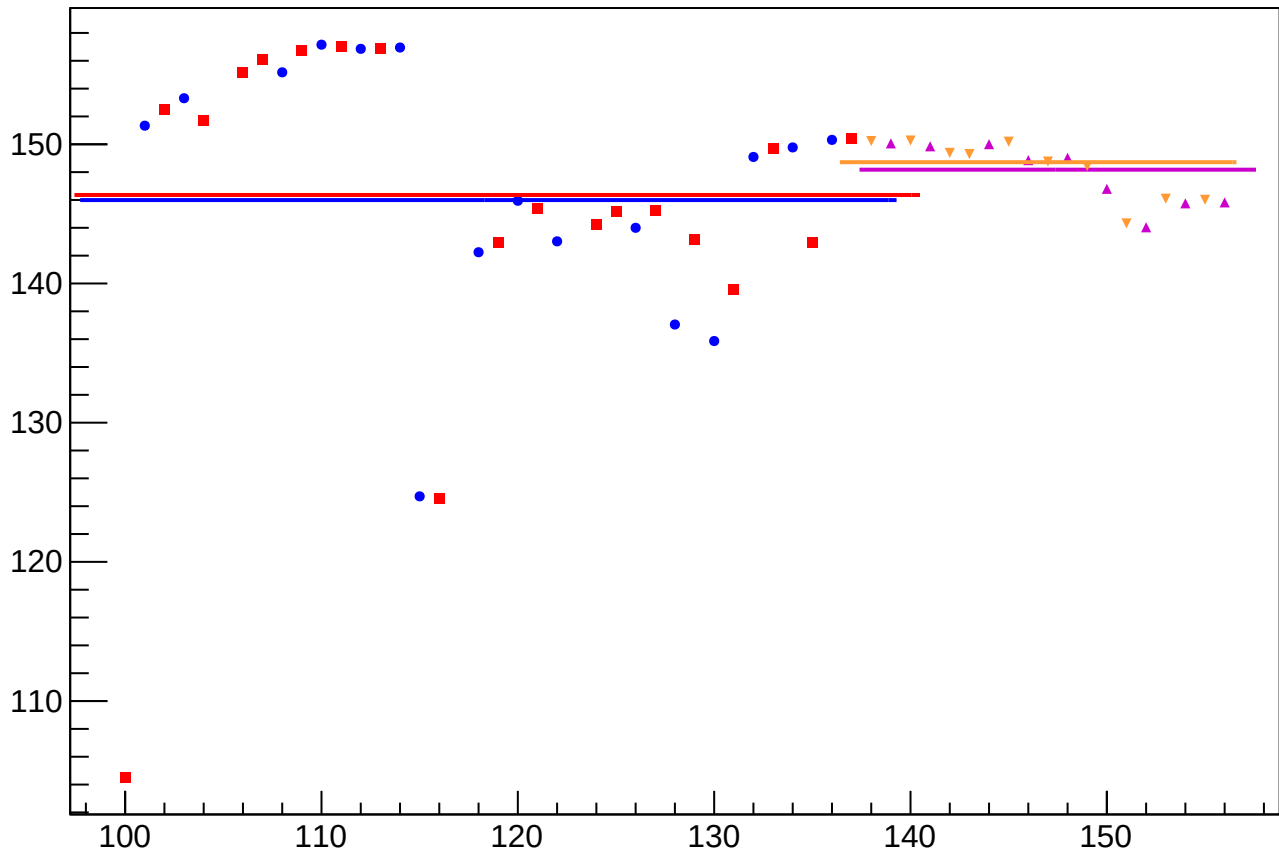
Right: 0.339 $\pm$ 0.000 χ^2/NDF : 2645924.6/34

In: 0.362 $\pm$ 0.000 χ^2/NDF :2024506.3/24

Out: 0.358 $\pm$ 0.000 χ^2/NDF :1872637.7/28

All: 0.360 $\pm$ 0.000 χ^2/NDF : 3899207.3/53

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 145.993 $\pm$ 0.000 χ^2 /NDF: 3621634656.4/15

Left Out: 148.714 $\pm$ 0.000 χ^2 /NDF: 174173383.6/9

Right Out: 146.358 $\pm$ 0.000 χ^2 /NDF: 3963122316.1/18

Left In: 148.176 $\pm$ 0.000 χ^2 /NDF: 205789542.8/8

Left: 148.455 $\pm$ 0.000 χ^2 /NDF: 387016524.4/18

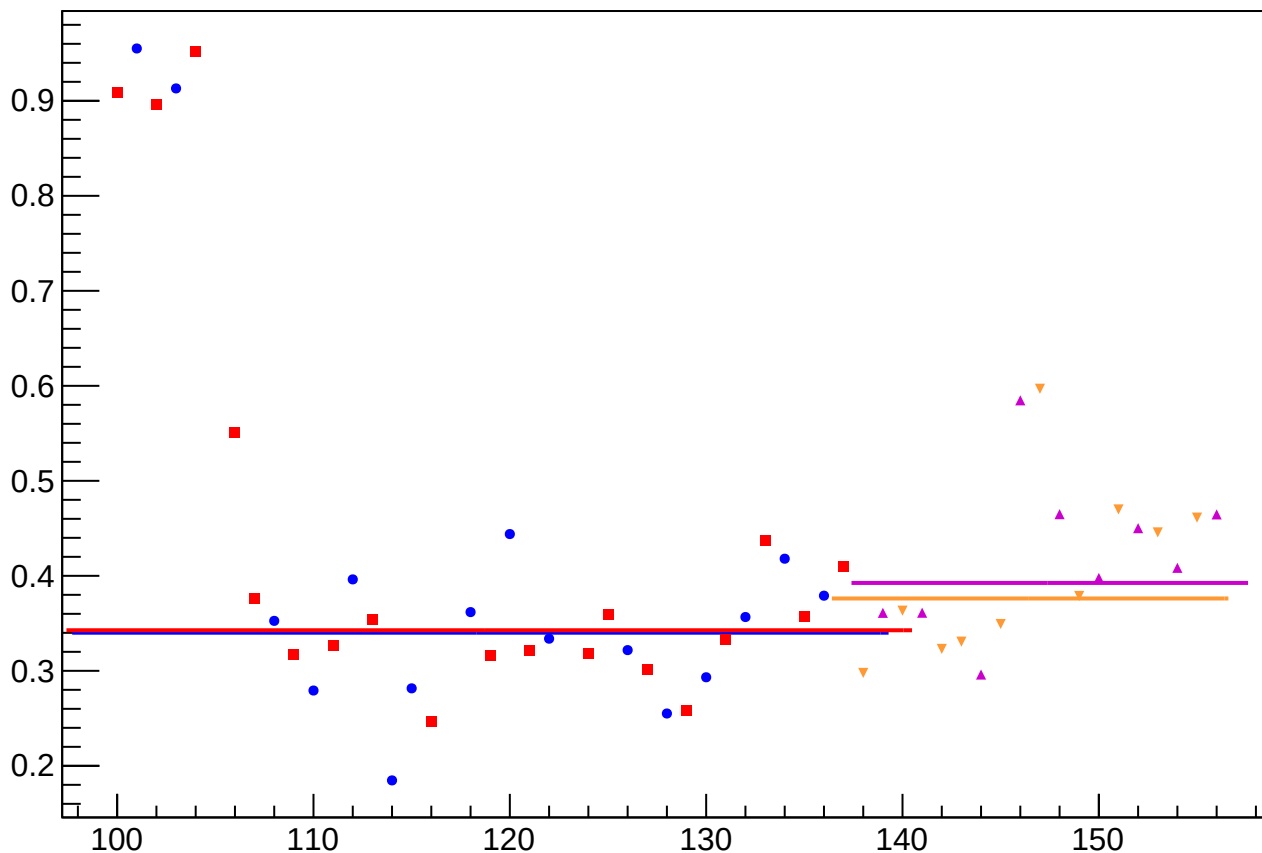
Right: 146.176 $\pm$ 0.000 χ^2 /NDF: 7588198619.6/34

In: 147.035 $\pm$ 0.000 χ^2 /NDF: 3944040511.8/24

Out: 147.522 $\pm$ 0.000 χ^2 /NDF: 4279126937.6/28

All: 147.284 $\pm$ 0.000 χ^2 /NDF: 8235016955.8

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.340 $\pm$ 0.000 χ^2 /NDF: 1393222.3/15

Left Out: 0.376 $\pm$ 0.000 χ^2 /NDF:528034.5/9

Right Out: 0.343 $\pm$ 0.000 χ^2 /NDF: 1270731.2/18

Left In: 0.393 $\pm$ 0.000 χ^2 /NDF:492748.5/8

Left: 0.384 $\pm$ 0.000 χ^2 /NDF: 1033797.4/18

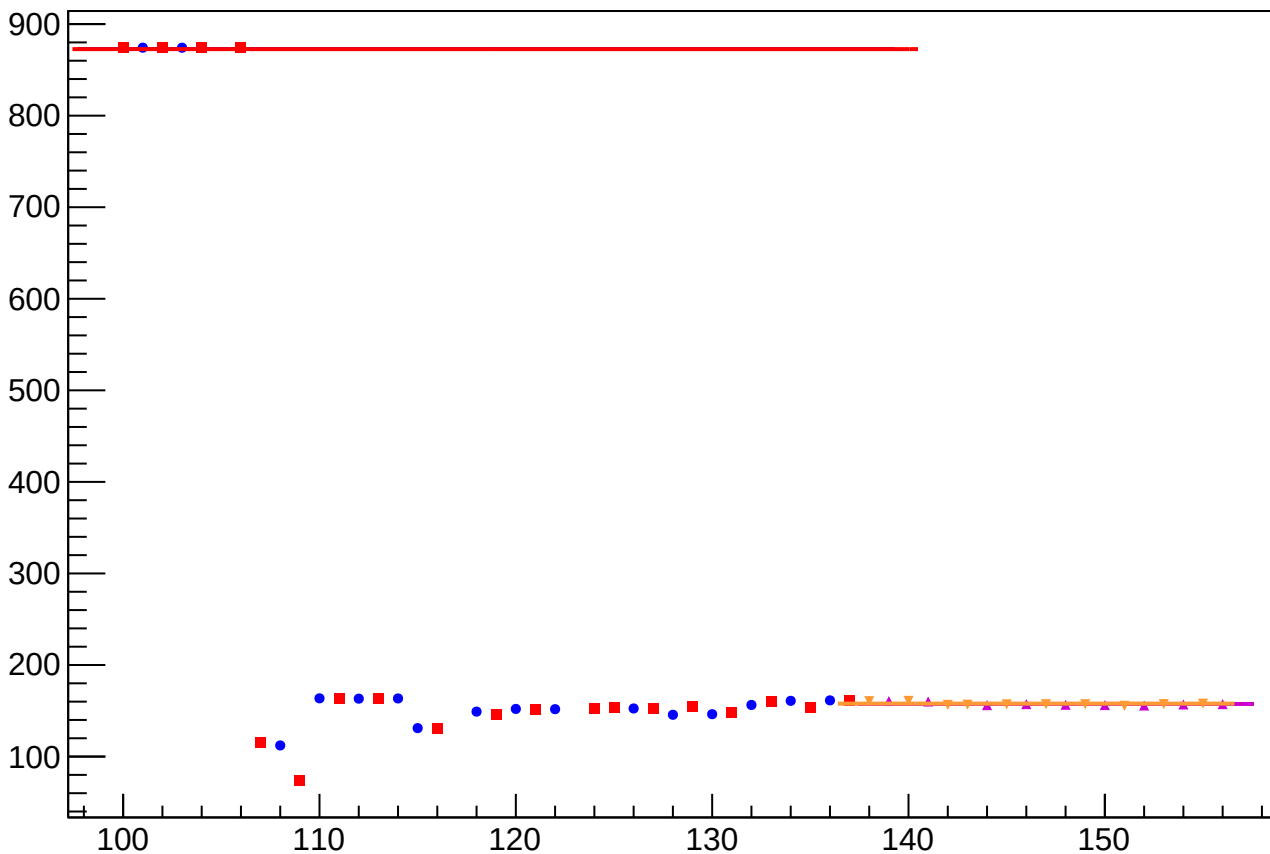
Right: 0.341 $\pm$ 0.000 χ^2 /NDF: 2664290.2/34

In: 0.365 $\pm$ 0.000 χ^2 /NDF:2020206.2/24

Out: 0.359 $\pm$ 0.000 χ^2 /NDF:1855936.7/28

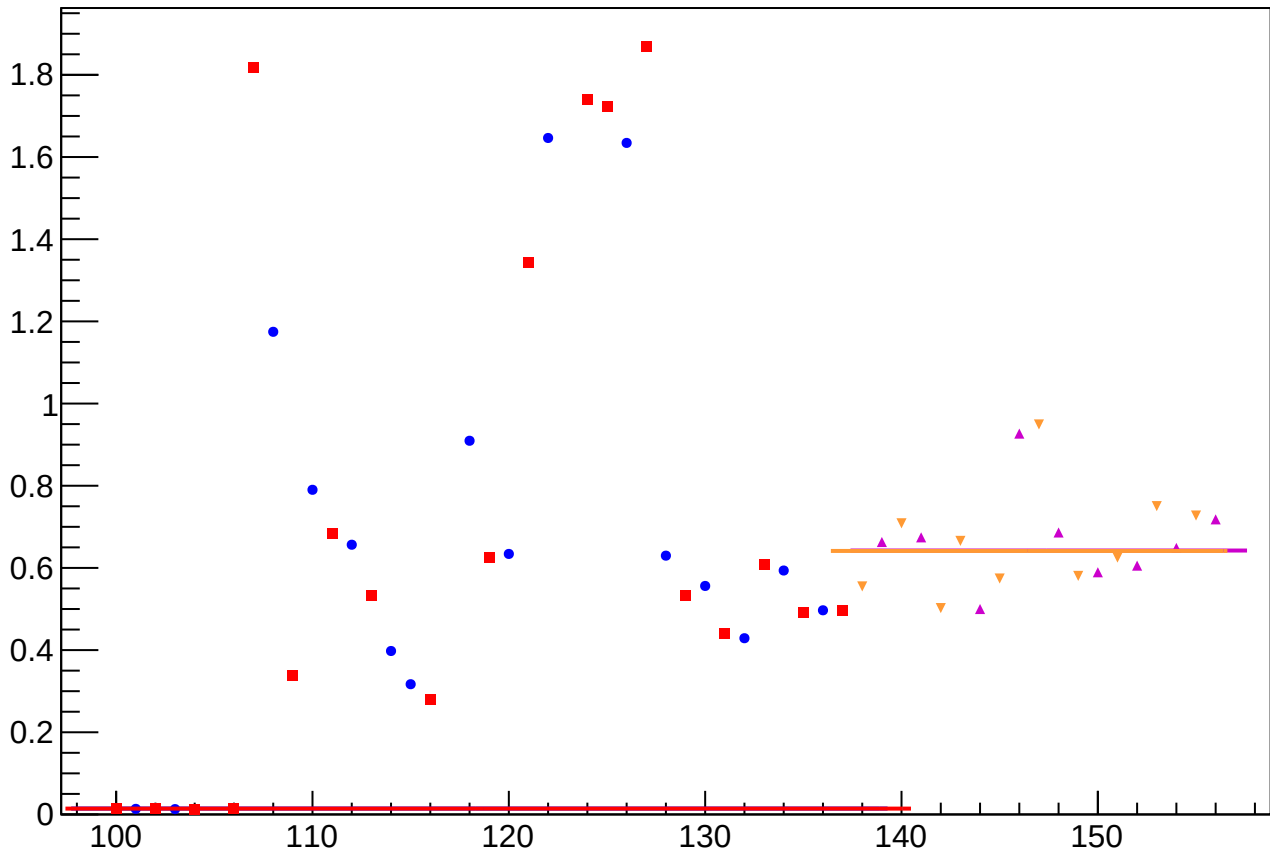
All: 0.362 $\pm$ 0.000 χ^2 /NDF: 3879673.1/53

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 872.822+/-0.000	χ^2/NDF : 7191496833472.3/15	Left: 157.651+/-0.000	χ^2/NDF : 81158219.0/18
Left Out: 157.833+/-0.000	χ^2/NDF : 40765641.7/9	Right: 872.744+/-0.000	χ^2/NDF : 16358876765227.4
Right Out: 872.676+/-0.000	χ^2/NDF : 9167298490018.9/18	In: 871.572+/-0.000	χ^2/NDF : 13563257075854.7/18
Left In: 157.470+/-0.000	χ^2/NDF : 39571988.1/8	Out: 871.602+/-0.000	χ^2/NDF : 15470167590229.0
		All: 871.588+/-0.000	χ^2/NDF : 29033428097.0

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 9622176.3/15

Left Out: 0.641+/-0.000 χ^2/NDF : 257202.8/9

Right Out: 0.014+/-0.000 χ^2/NDF : 9410025.7/18

Left In: 0.642+/-0.000 χ^2/NDF : 217095.0/8

Left: 0.642+/-0.000 χ^2/NDF : 474310.2/18

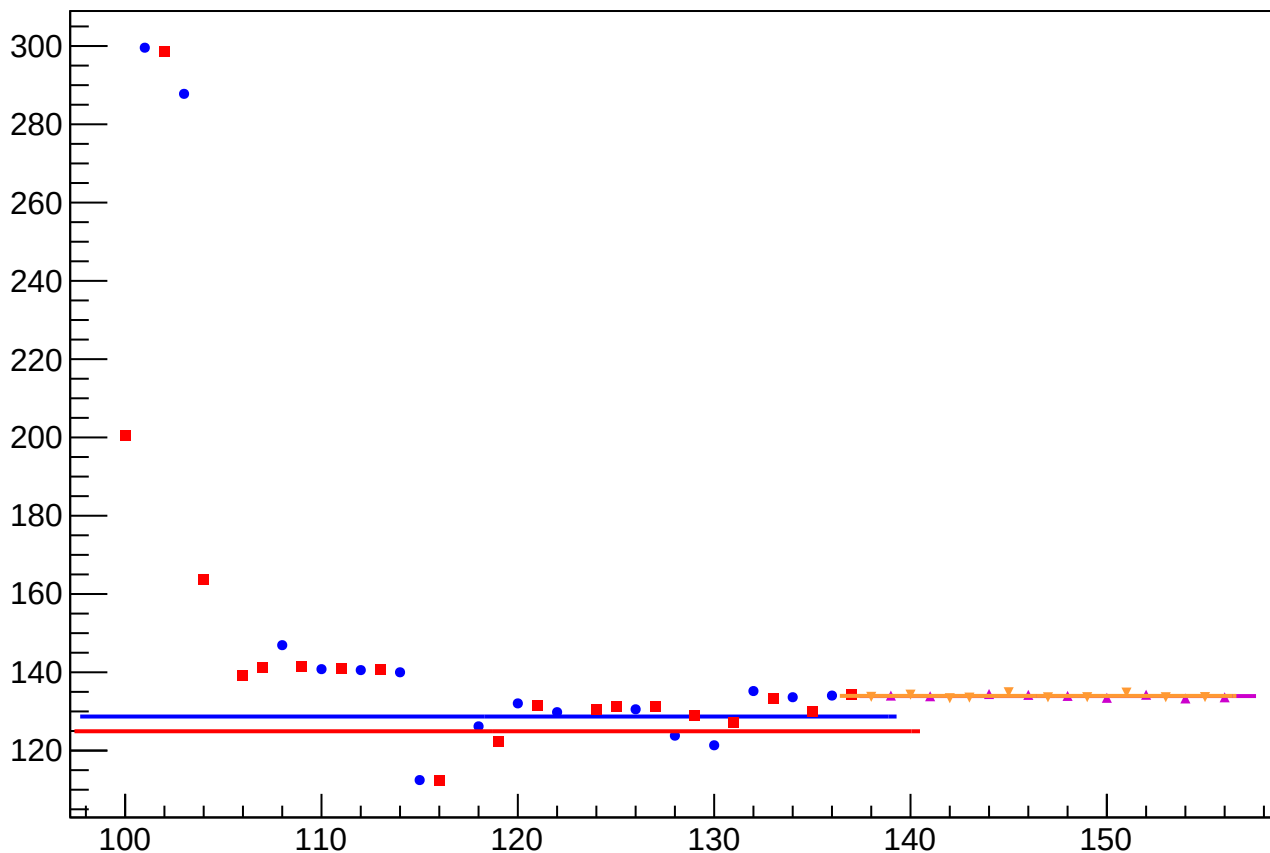
Right: 0.014+/-0.000 χ^2/NDF : 19032353.5/34

In: 0.015+/-0.000 χ^2/NDF : 19658583.9/24

Out: 0.015+/-0.000 χ^2/NDF : 19367682.1/28

All: 0.015+/-0.000 χ^2/NDF : 39026936.3/53

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 128.701+/-0.000 χ^2/NDF : 1656162604.0/15

Left Out: 133.972+/-0.000 χ^2/NDF : 9792028.4/9

Right Out: 124.935+/-0.000 χ^2/NDF : 1397923053.7/18

Left In: 133.928+/-0.000 χ^2/NDF : 4686378.3/8

Left: 133.951+/-0.000 χ^2/NDF : 14507765.4/18

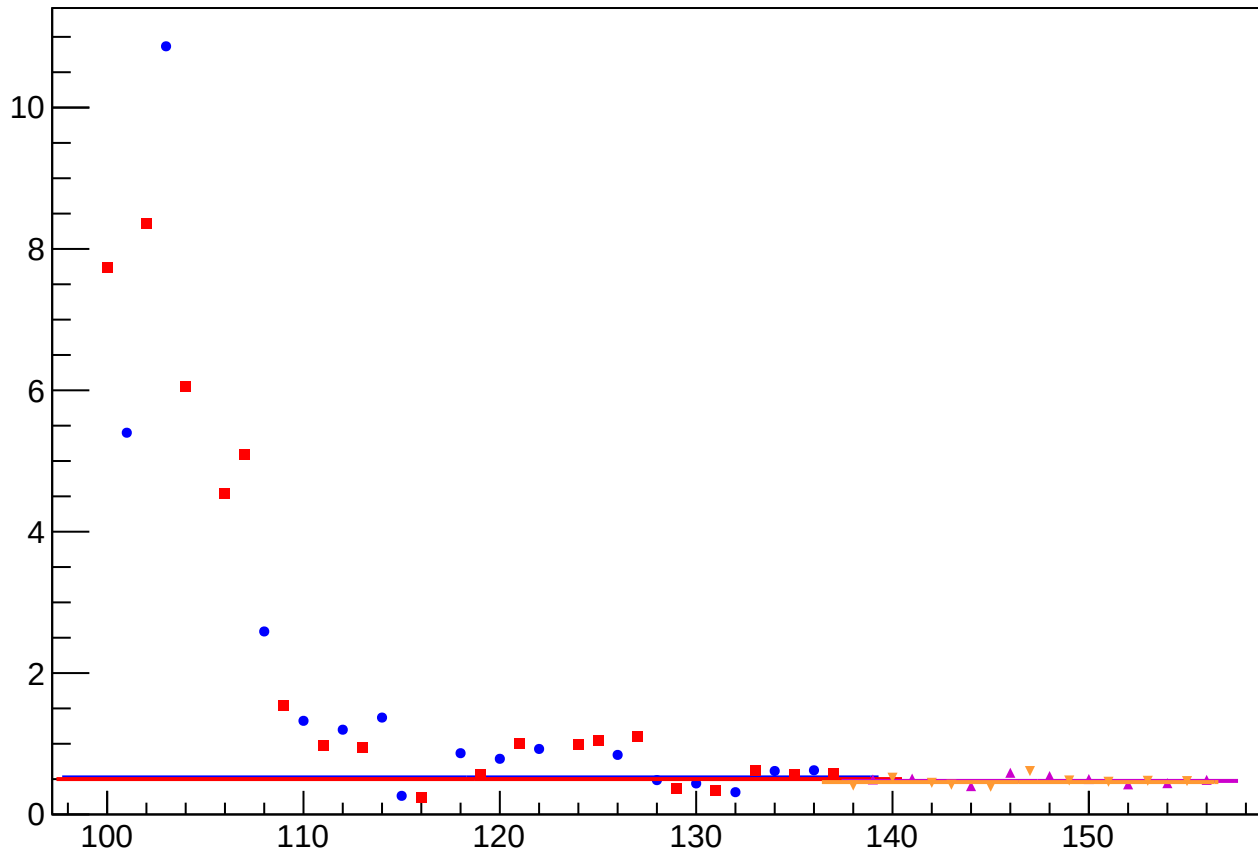
Right: 126.772+/-0.000 χ^2/NDF : 3151132983.0/34

In: 132.299+/-0.000 χ^2/NDF : 1912271379.9/24

Out: 131.173+/-0.000 χ^2/NDF : 2198518009.3/28

All: 131.720+/-0.000 χ^2/NDF : 4138743029.0

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.524+/-0.000 χ^2/NDF : 4138409.3/15

Left Out: 0.458+/-0.000 χ^2/NDF :185399.6/9

Right Out: 0.501+/-0.000 χ^2/NDF : 4884137.3/18

Left In: 0.474+/-0.000 χ^2/NDF :183479.6/8

Left: 0.466+/-0.000 χ^2/NDF : 377069.1/18

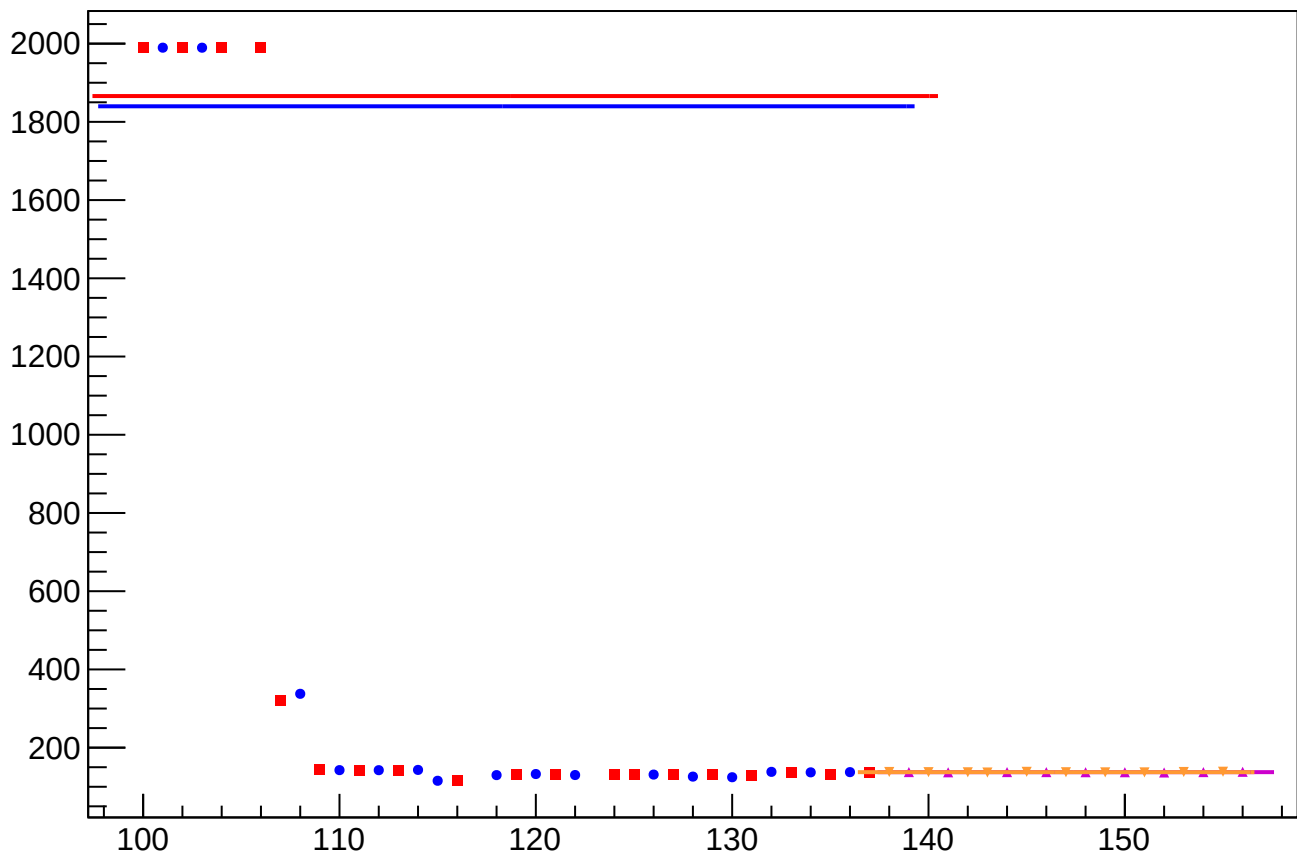
Right: 0.512+/-0.000 χ^2/NDF : 9030118.3/34

In: 0.490+/-0.000 χ^2/NDF :4367148.9/24

Out: 0.471+/-0.000 χ^2/NDF :5104515.5/28

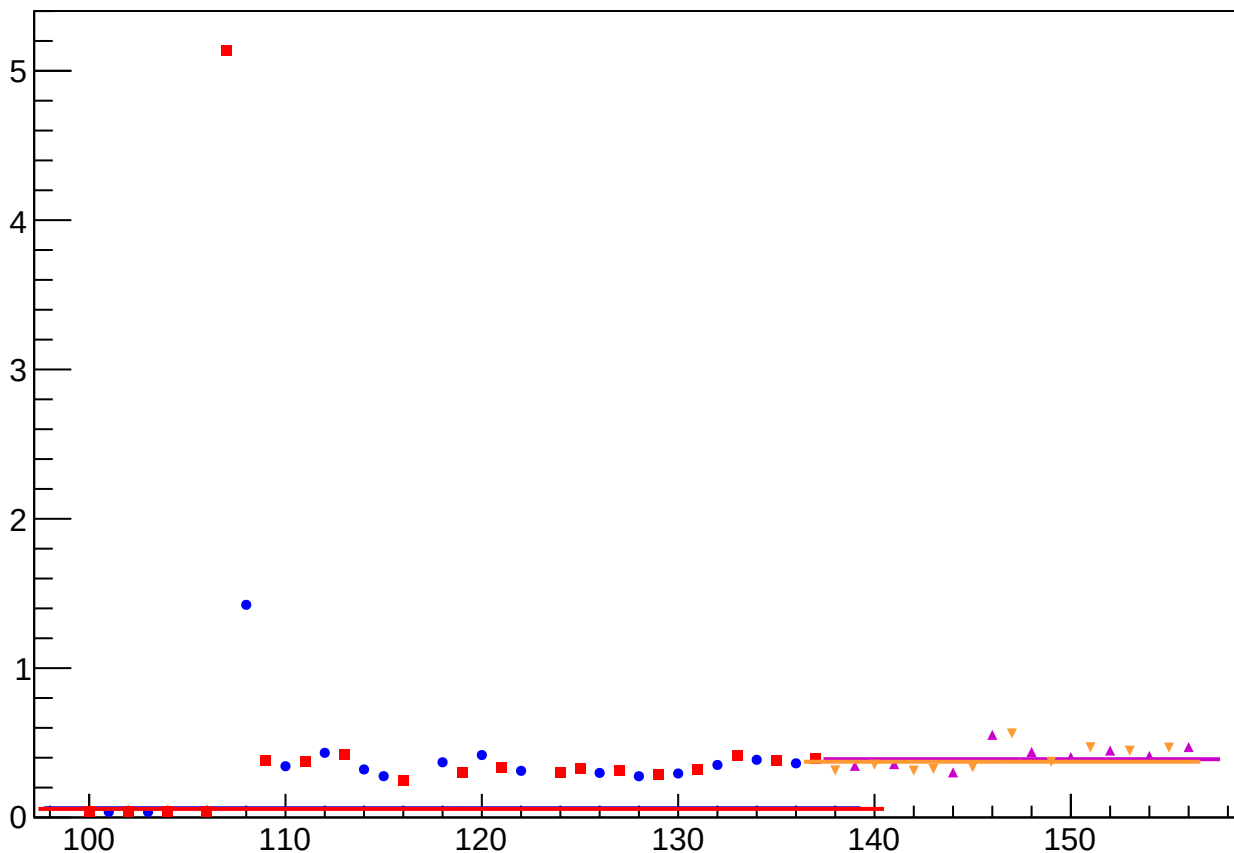
All: 0.480+/-0.000 χ^2/NDF : 9487089.8/53

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1839.782+/-0.000 χ^2/NDF : 145916014549797.4/15
 Left Out: 137.349+/-0.000 χ^2/NDF : 20586481.7/9
 Right Out: 1865.968+/-0.000 χ^2/NDF : 142769122276045.8/18
 Left In: 137.385+/-0.000 χ^2/NDF : 7465634.4/8
 Left: 137.366+/-0.000 χ^2/NDF : 28084959.6/18
 Right: 1853.888+/-0.000 χ^2/NDF : 28889579860593
 In: 1707.553+/-0.000 χ^2/NDF : 274300628665110.
 Out: 1740.323+/-0.000 χ^2/NDF : 287403911650002
 All: 1725.161+/-0.000 χ^2/NDF : 56206135560

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.062+/-0.000 χ^2/NDF : 8173578.9/15

Left Out: 0.373+/-0.000 χ^2/NDF : 490576.8/9

Right Out: 0.057+/-0.000 χ^2/NDF : 7741927.9/18

Left In: 0.390+/-0.000 χ^2/NDF : 438491.3/8

Left: 0.381+/-0.000 χ^2/NDF : 943532.0/18

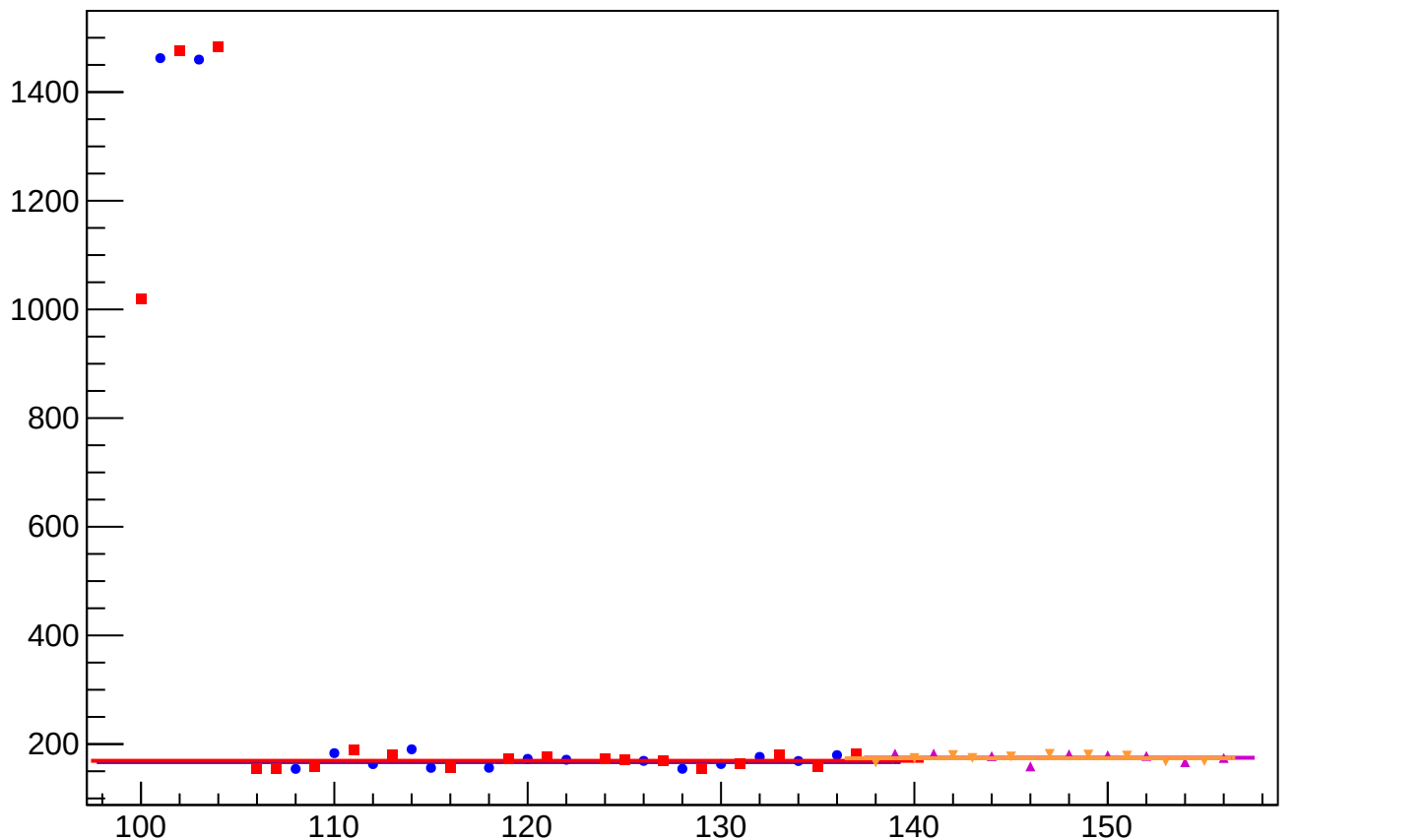
Right: 0.059+/-0.000 χ^2/NDF : 15927866.9/34

In: 0.087+/-0.000 χ^2/NDF : 18158547.7/24

Out: 0.080+/-0.000 χ^2/NDF : 17883064.3/28

All: 0.083+/-0.000 χ^2/NDF : 36074473.0/53

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 167.017+/-0.000 χ^2/NDF : 14614977518.5/15

Left Out: 173.916+/-0.000 χ^2/NDF : 225905843.6/9

Right Out: 169.257+/-0.000 χ^2/NDF : 16317542946.8/18

Left In: 174.860+/-0.000 χ^2/NDF : 436419387.7/8

Left: 174.374+/-0.000 χ^2/NDF : 665497404.1/18

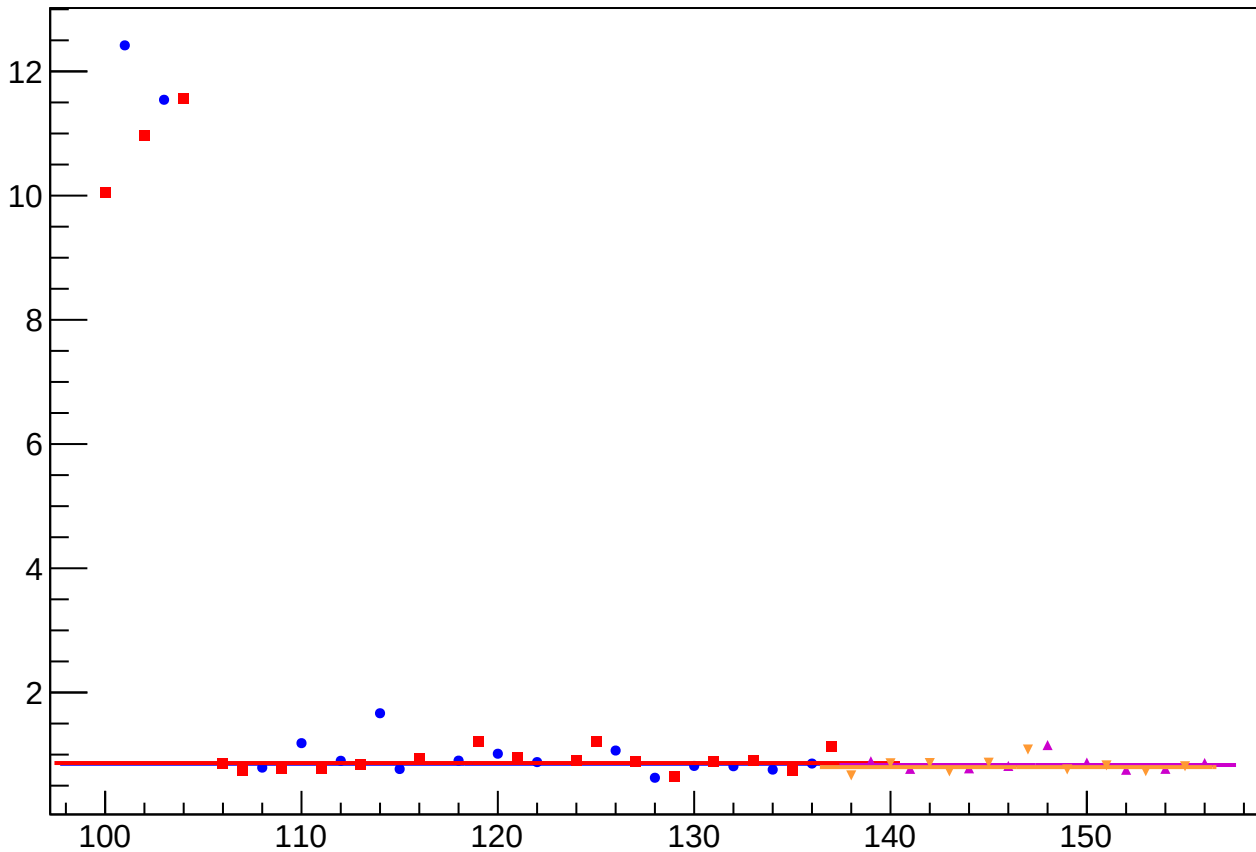
Right: 168.153+/-0.000 χ^2/NDF : 30946000130.2/34

In: 171.457+/-0.000 χ^2/NDF : 15235826739.1/24

Out: 171.932+/-0.000 χ^2/NDF : 16611363326.4/28

All: 171.700+/-0.000 χ^2/NDF : 31848600950.0/50

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.853+/-0.000 χ^2/NDF : 2302297.2/15

Left Out: 0.799+/-0.000 χ^2/NDF :145733.8/9

Right Out: 0.864+/-0.000 χ^2/NDF : 2209232.6/18

Left In: 0.833+/-0.000 χ^2/NDF :131197.3/8

Left: 0.815+/-0.000 χ^2/NDF : 285169.4/18

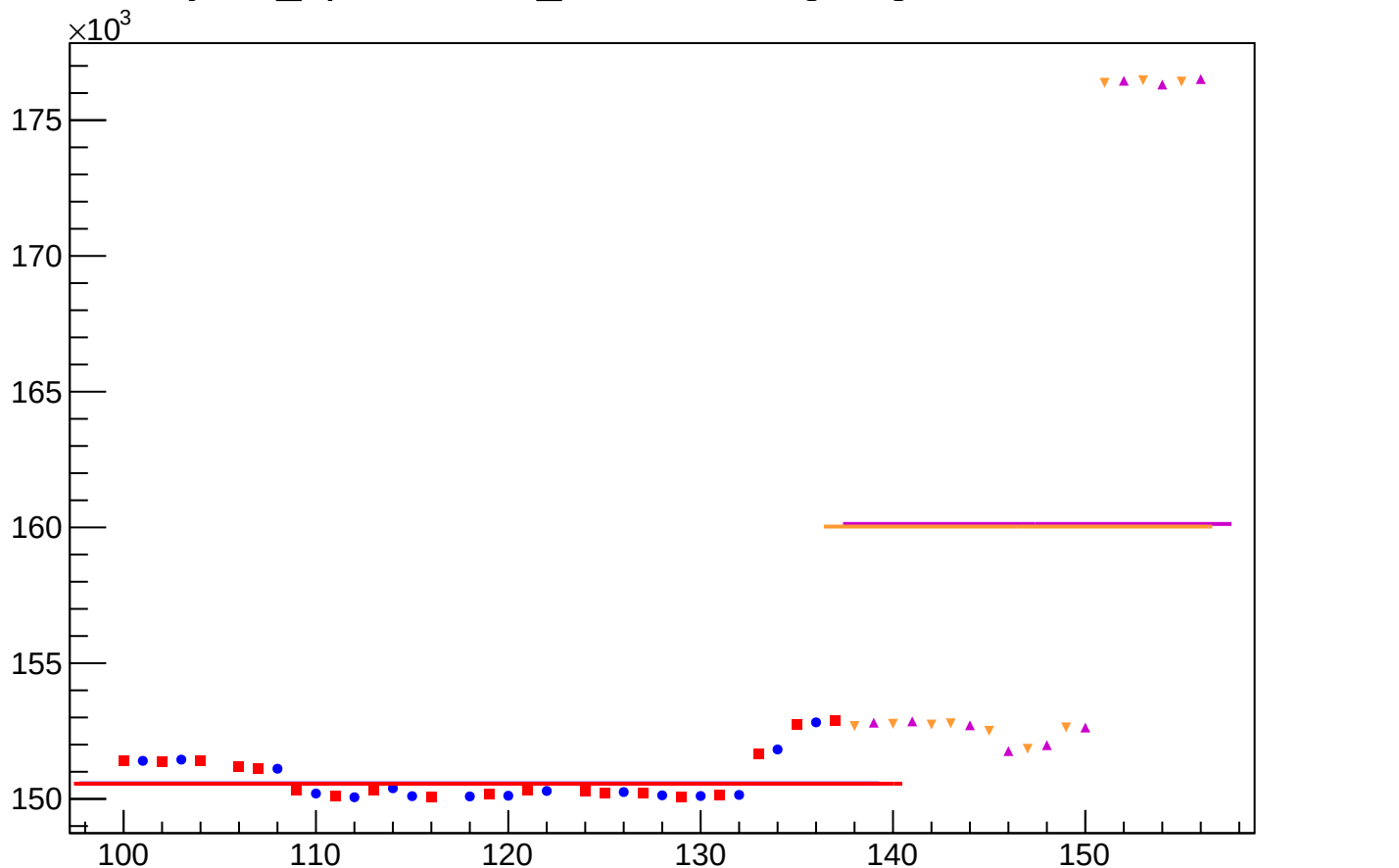
Right: 0.859+/-0.000 χ^2/NDF : 4512219.1/34

In: 0.841+/-0.000 χ^2/NDF :2435970.2/24

Out: 0.827+/-0.000 χ^2/NDF :2381943.0/28

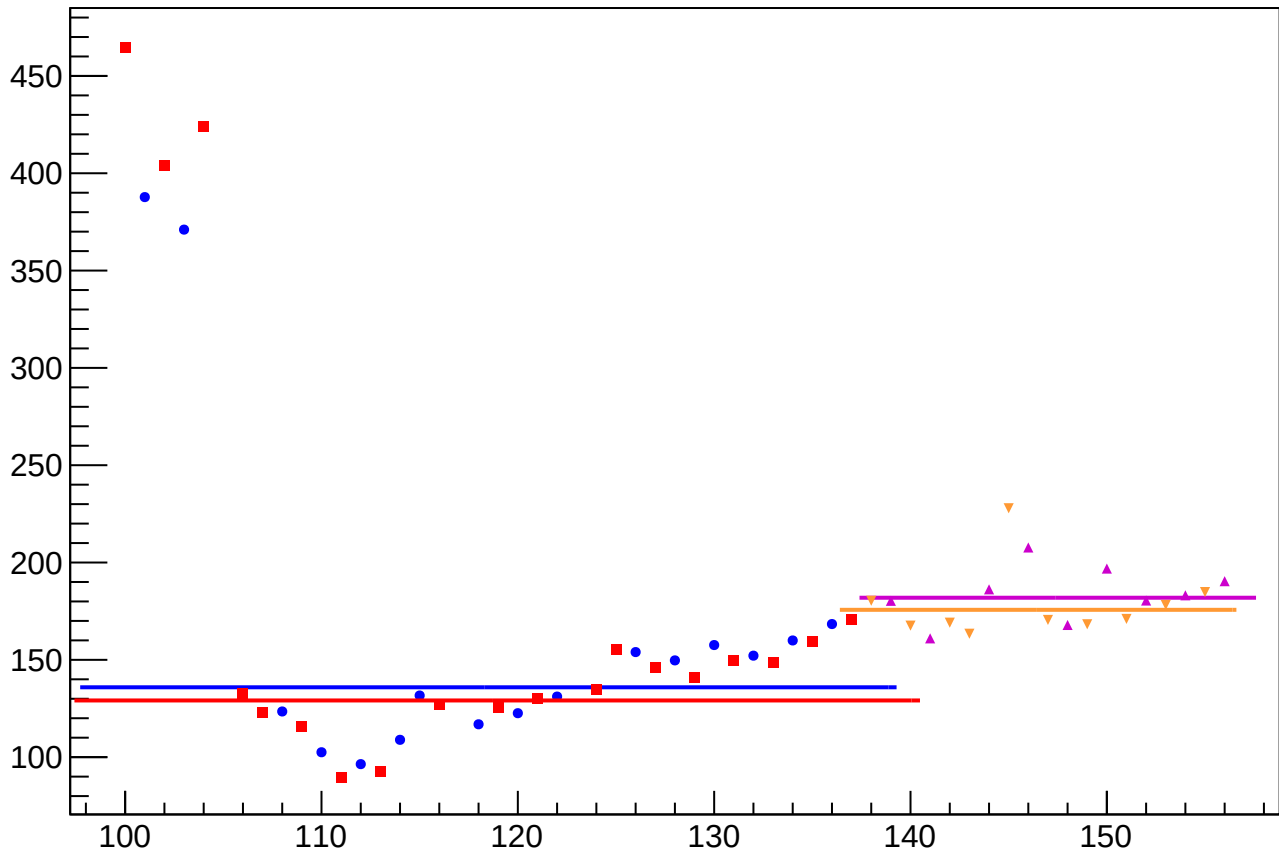
All: 0.834+/-0.000 χ^2/NDF : 4820674.8/53

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055	χ^2/NDF : 237155171.8/15	Left: 160077.913 $\pm$ 0.046	χ^2/NDF : 59176502499.7
Left Out: 160031.129 $\pm$ 0.064	χ^2/NDF : 30337287476.6/9	Right: 150564.903 $\pm$ 0.037	χ^2/NDF : 434664709.4/3
Right Out: 150561.647 $\pm$ 0.051	χ^2/NDF : 197500782.5/18	In: 154472.272 $\pm$ 0.042	χ^2/NDF : 41587676879.8/2
Left In: 160127.944 $\pm$ 0.066	χ^2/NDF : 28838093995.0/8	Out: 154268.589 $\pm$ 0.040	χ^2/NDF : 44040299110.5
		All: 154364.867 $\pm$ 0.029	χ^2/NDF : 85640374

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 $\pm$ 0.039 χ^2 /NDF: 1416332.3/15

Left Out: 175.699 $\pm$ 0.045 χ^2 /NDF:109857.3/9

Right Out: 129.130 $\pm$ 0.036 χ^2 /NDF: 1614311.0/18

Left In: 181.910 $\pm$ 0.046 χ^2 /NDF:82504.0/8

Left: 178.700 $\pm$ 0.032 χ^2 /NDF: 201590.9/18

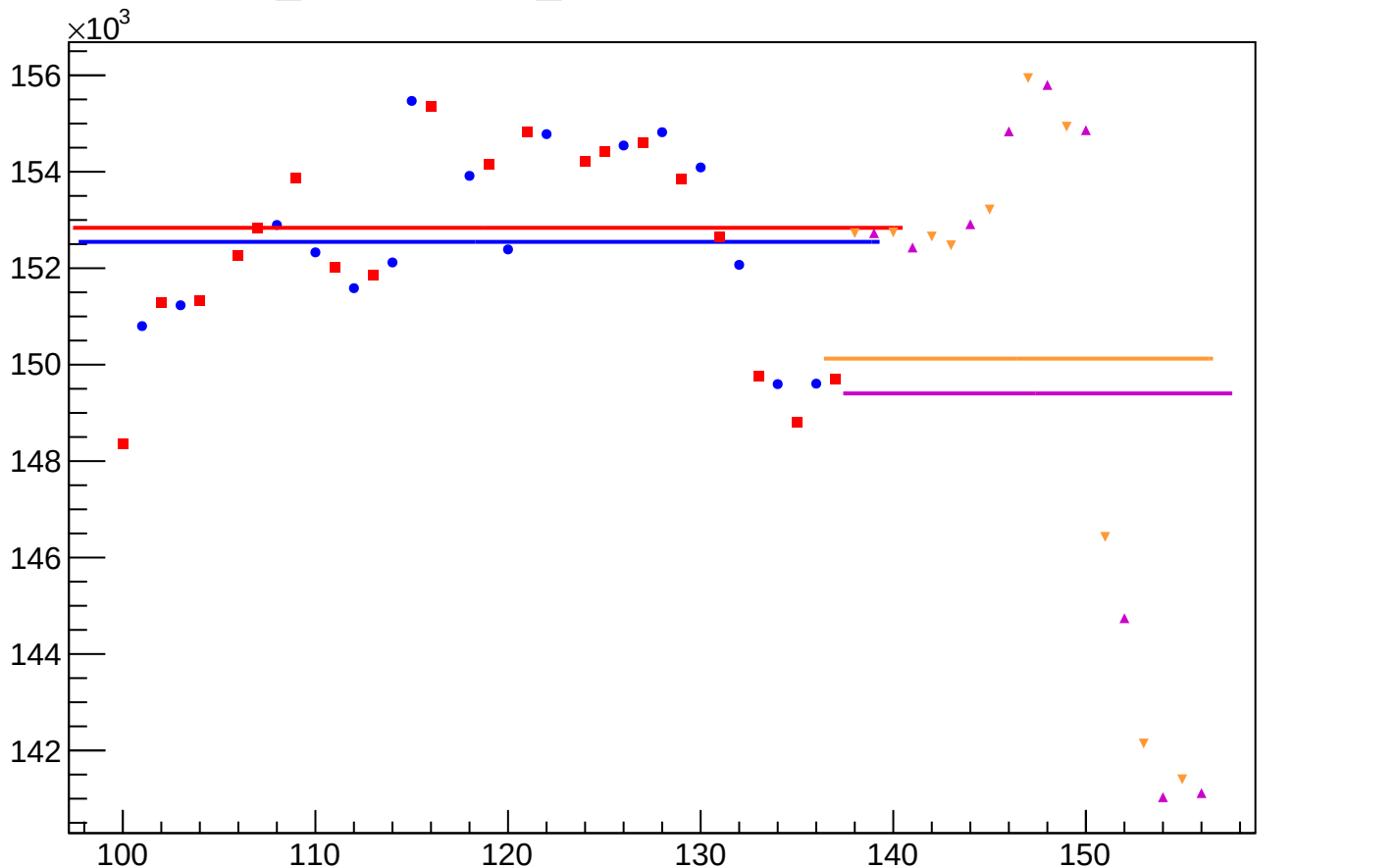
Right: 132.281 $\pm$ 0.026 χ^2 /NDF: 3047045.4/34

In: 154.686 $\pm$ 0.030 χ^2 /NDF:2078668.7/24

Out: 147.360 $\pm$ 0.028 χ^2 /NDF:2377397.0/28

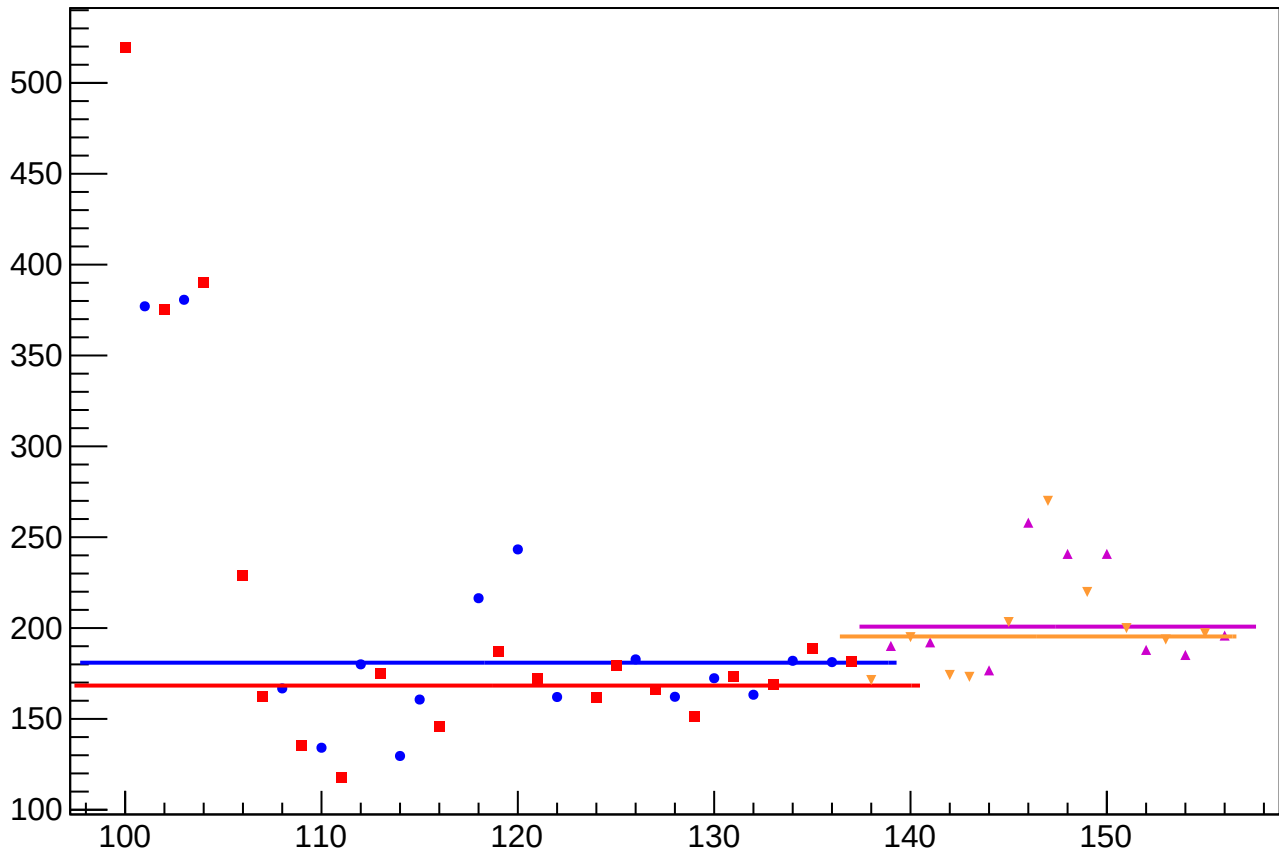
All: 150.823 $\pm$ 0.020 χ^2 /NDF: 4488147.6/53

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2/NDF : 654540559.6/15	Left: 149774.257 $\pm$ 0.051	χ^2/NDF : 10689457575.3/15
Left Out: 150125.550 $\pm$ 0.071	χ^2/NDF : 4712205437.7/9	Right: 152704.814 $\pm$ 0.049	χ^2/NDF : 1400162101.0/9
Right Out: 152837.888 $\pm$ 0.067	χ^2/NDF : 736907066.8/18	In: 150986.984 $\pm$ 0.052	χ^2/NDF : 7511711997.2/24
Left In: 149403.378 $\pm$ 0.073	χ^2/NDF : 5927217524.8/8	Out: 151571.071 $\pm$ 0.049	χ^2/NDF : 6222375605.6/24
		All: 151295.778 $\pm$ 0.035	χ^2/NDF : 1380198605.6/100

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938 ± 0.051 $\chi^2/\text{NDF}: 907758.2/15$

Left Out: 195.366 ± 0.050 $\chi^2/\text{NDF}: 217396.7/9$

Right Out: 168.349 ± 0.047 $\chi^2/\text{NDF}: 1089090.2/18$

Left In: 200.780 ± 0.052 $\chi^2/\text{NDF}: 242345.4/8$

Left: 197.999 ± 0.036 $\chi^2/\text{NDF}: 465365.3/18$

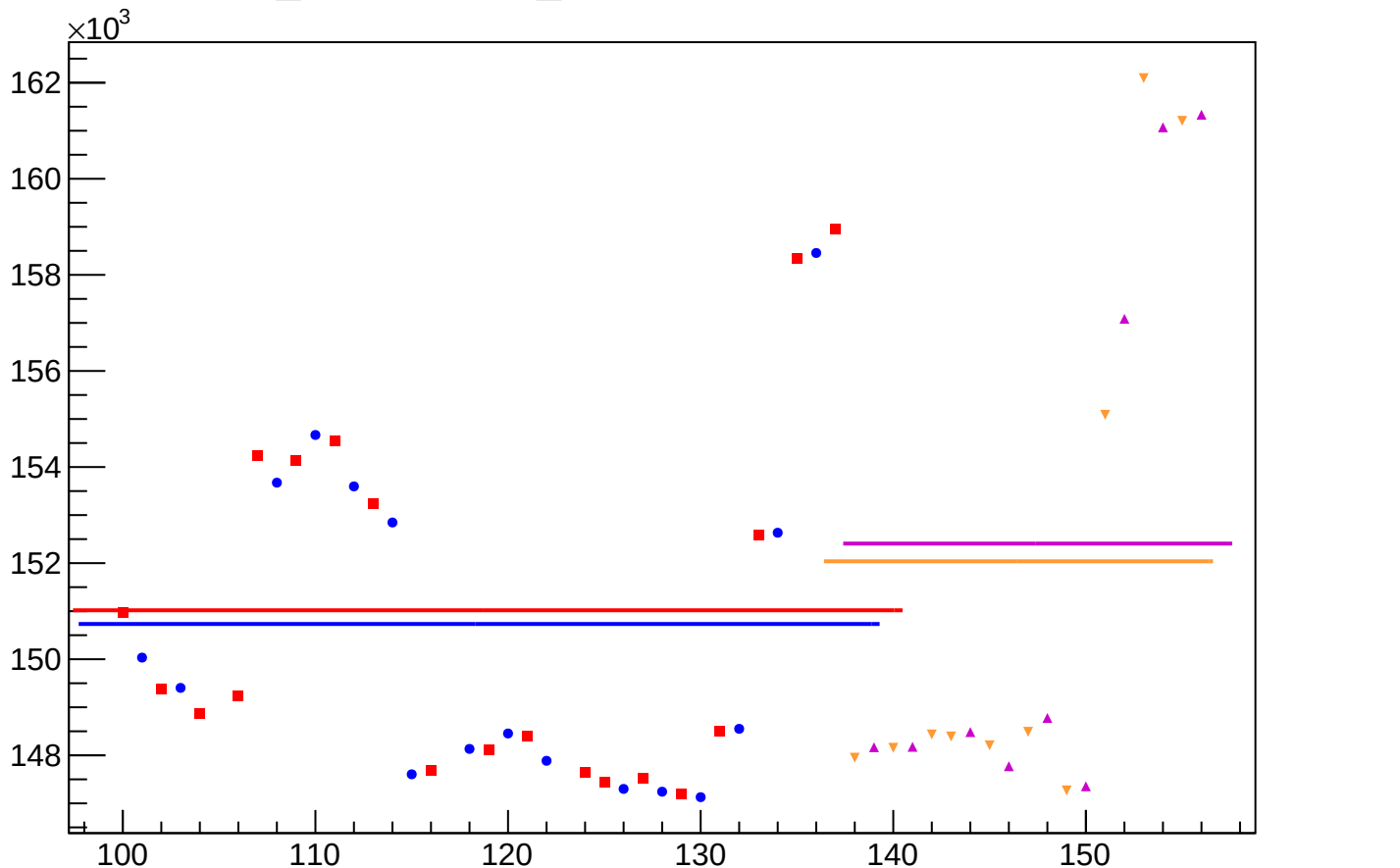
Right: 174.106 ± 0.035 $\chi^2/\text{NDF}: 2029471.3/34$

In: 190.784 ± 0.036 $\chi^2/\text{NDF}: 1224199.5/24$

Out: 180.968 ± 0.034 $\chi^2/\text{NDF}: 1459928.6/28$

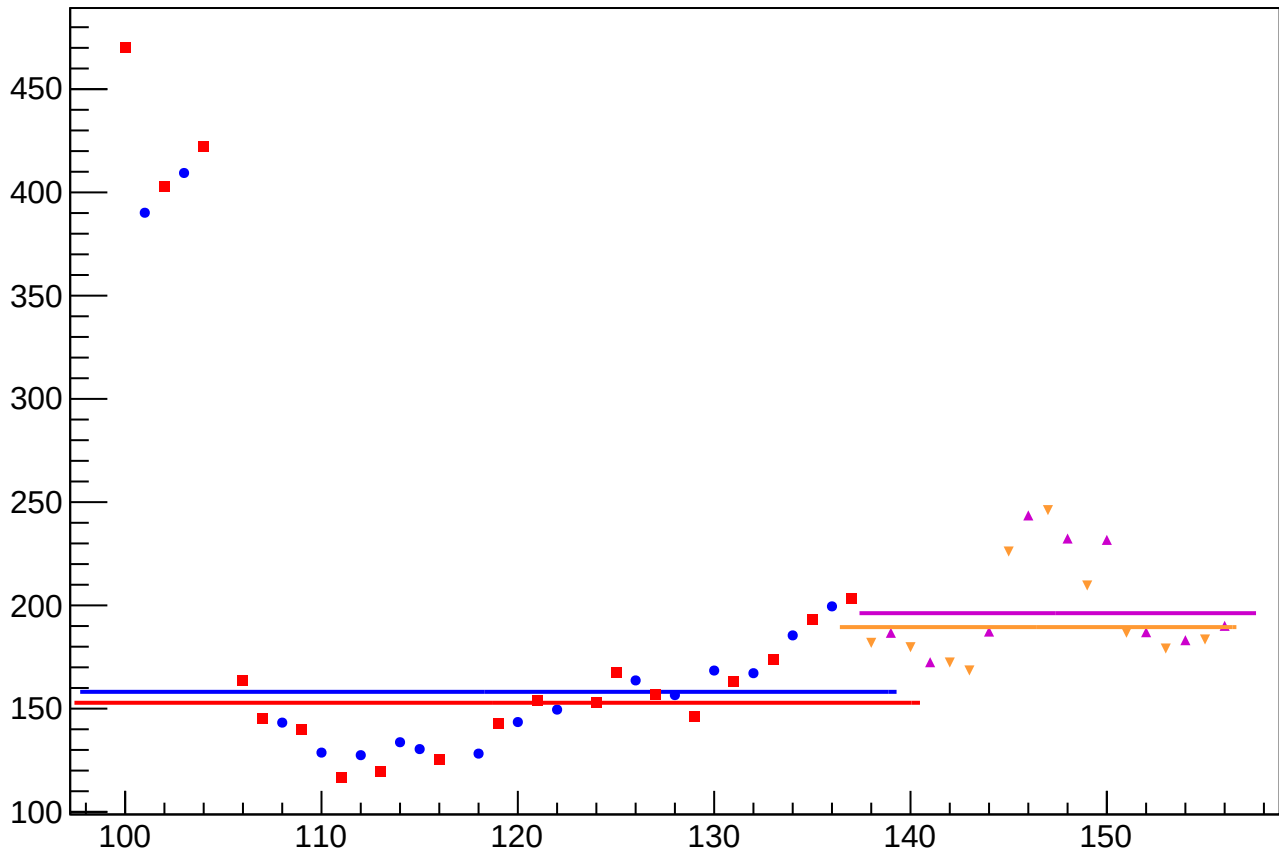
All: 185.594 ± 0.025 $\chi^2/\text{NDF}: 2722486.9/53$

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150733.301 $\pm$ 0.063	χ^2 /NDF: 3283848751.0/15	Left: 152216.309 $\pm$ 0.049	χ^2 /NDF: 13444071249.9
Left Out: 152038.238 $\pm$ 0.069	χ^2 /NDF: 6921131706.5/9	Right: 150882.491 $\pm$ 0.043	χ^2 /NDF: 6580735457.3
Right Out: 151018.500 $\pm$ 0.060	χ^2 /NDF: 3286131878.7/18	In: 151467.211 $\pm$ 0.047	χ^2 /NDF: 10103404734.0/2
Left In: 152407.162 $\pm$ 0.071	χ^2 /NDF: 6509043477.7/8	Out: 151459.797 $\pm$ 0.045	χ^2 /NDF: 10332034037.9
		All: 151463.351 $\pm$ 0.033	χ^2 /NDF: 204354516

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.138 $\pm$ 0.044 χ^2 /NDF: 1195699.5/15

Left Out: 189.483 $\pm$ 0.049 χ^2 /NDF:192556.8/9

Right Out: 152.841 $\pm$ 0.042 χ^2 /NDF: 1264236.1/18

Left In: 196.227 $\pm$ 0.050 χ^2 /NDF:204283.2/8

Left: 192.738 $\pm$ 0.035 χ^2 /NDF: 406127.3/18

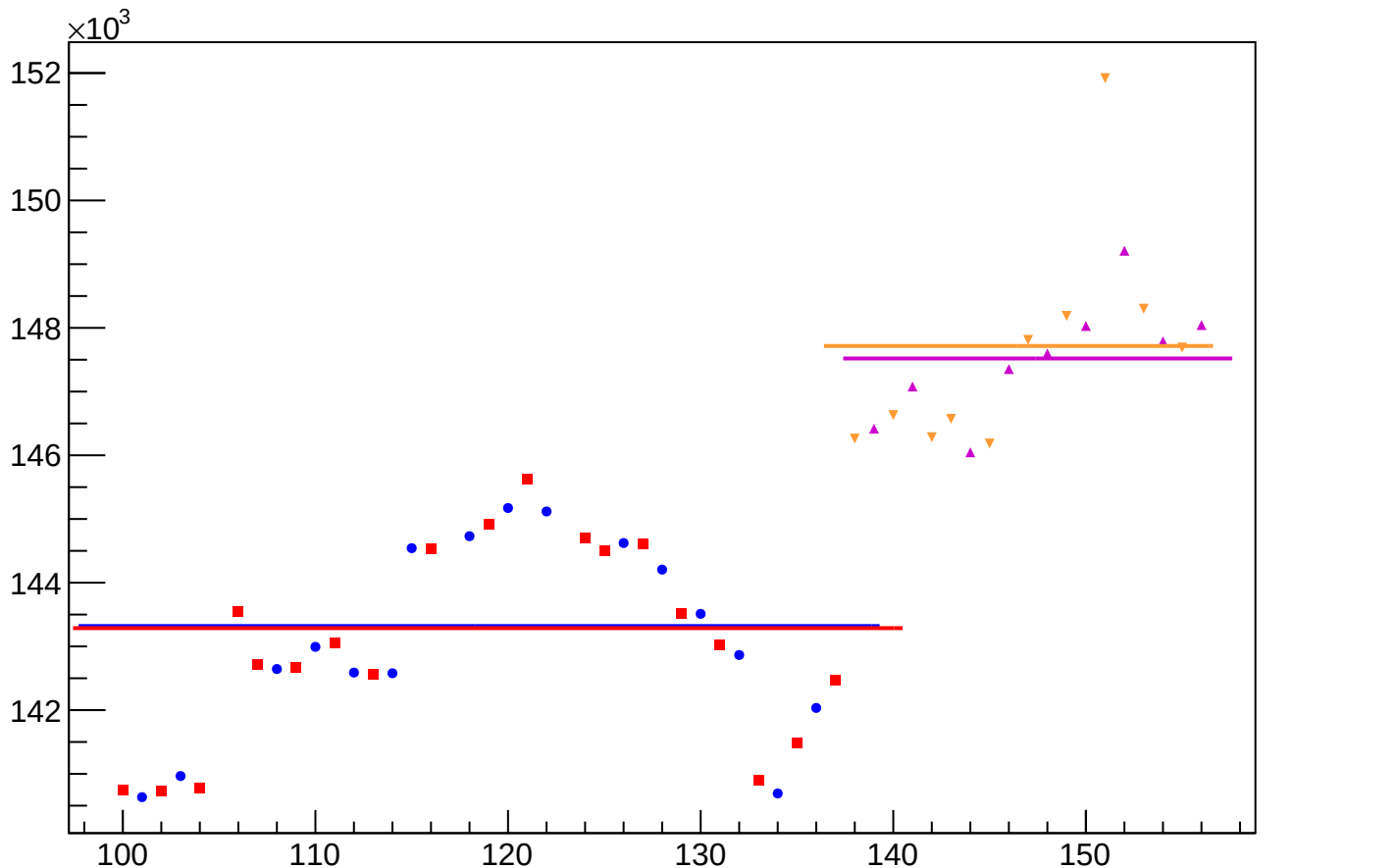
Right: 155.367 $\pm$ 0.031 χ^2 /NDF: 2467354.6/34

In: 174.838 $\pm$ 0.033 χ^2 /NDF:1721553.9/24

Out: 168.698 $\pm$ 0.032 χ^2 /NDF:1778990.0/28

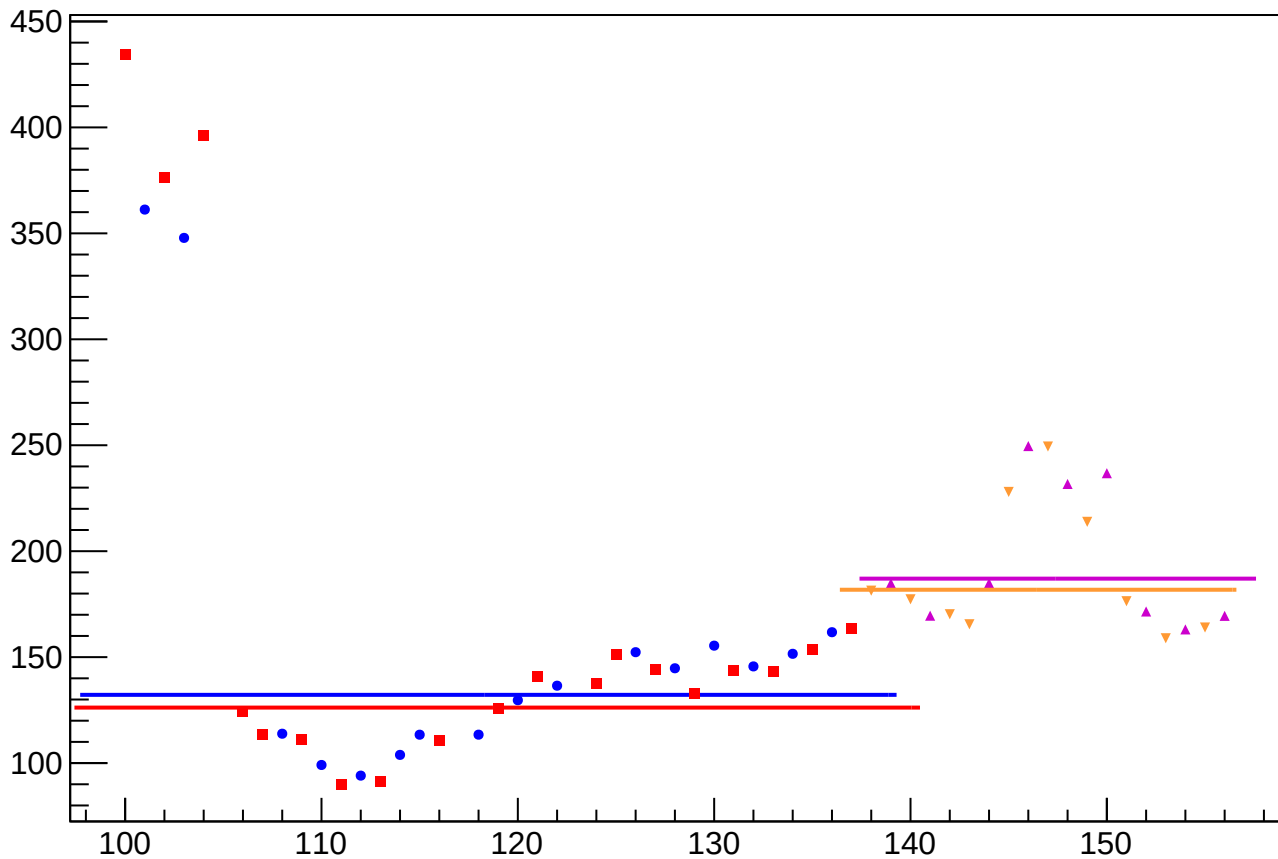
All: 171.642 $\pm$ 0.023 χ^2 /NDF: 3518212.7/53

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143319.651 $\pm$ 0.053	χ^2 /NDF: 559301530.7/15	Left: 147620.572 $\pm$ 0.048	χ^2 /NDF: 861167869.6/18
Left Out: 147715.827 $\pm$ 0.066	χ^2 /NDF: 668615130.5/9	Right: 143302.220 $\pm$ 0.036	χ^2 /NDF: 1180025024.1/15
Right Out: 143286.960 $\pm$ 0.050	χ^2 /NDF: 620521577.8/18	In: 144904.775 $\pm$ 0.042	χ^2 /NDF: 3106564277.5/24
Left In: 147519.607 $\pm$ 0.068	χ^2 /NDF: 188297275.1/8	Out: 144881.415 $\pm$ 0.040	χ^2 /NDF: 4147205279.8/24
		All: 144892.480 $\pm$ 0.029	χ^2 /NDF: 725393303.1/15

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 132.204 $\pm$ 0.038 χ^2 /NDF: 1379168.6/15

Left Out: 181.805 $\pm$ 0.047 χ^2 /NDF:297342.6/9

Right Out: 126.191 $\pm$ 0.035 χ^2 /NDF: 1545034.5/18

Left In: 187.045 $\pm$ 0.048 χ^2 /NDF:336314.3/8

Left: 184.349 $\pm$ 0.034 χ^2 /NDF: 639725.9/18

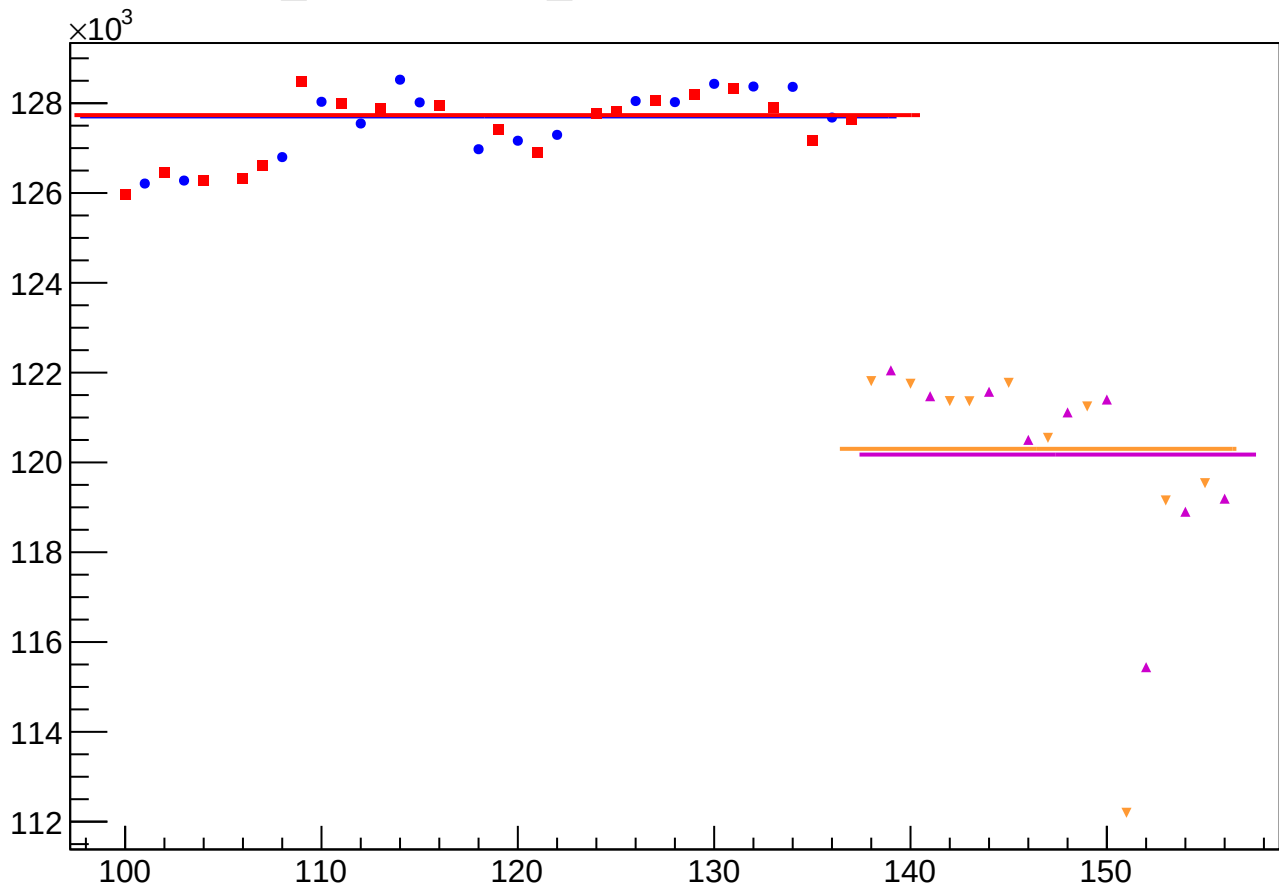
Right: 128.998 $\pm$ 0.026 χ^2 /NDF: 2937865.2/34

In: 152.902 $\pm$ 0.030 χ^2 /NDF:2519879.1/24

Out: 146.213 $\pm$ 0.028 χ^2 /NDF:2743711.9/28

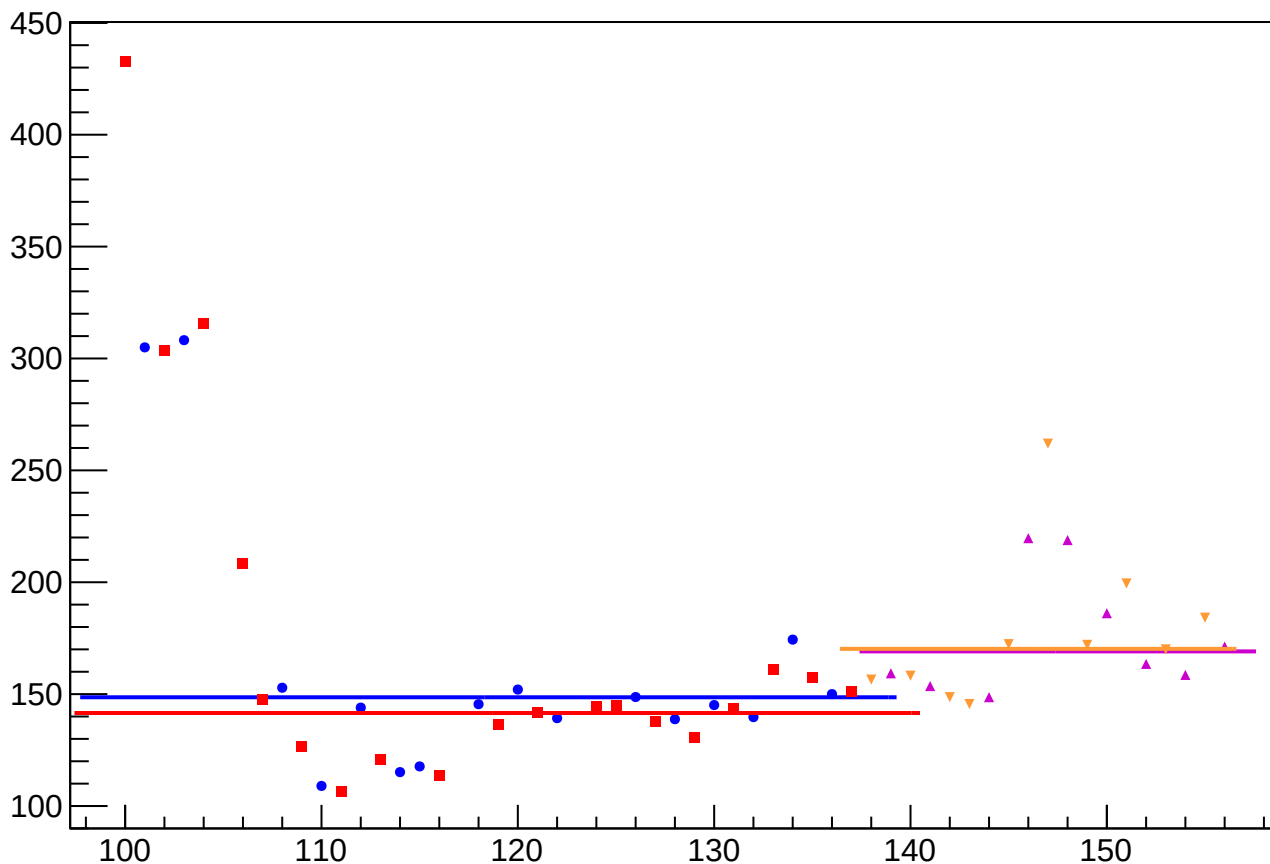
All: 149.381 $\pm$ 0.020 χ^2 /NDF: 5290395.9/53

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127705.222 $\pm$ 0.058	χ^2 /NDF: 104467207.7/15	Left: 120238.202 $\pm$ 0.044	χ^2 /NDF: 2774751765.5/1
Left Out: 120302.958 $\pm$ 0.063	χ^2 /NDF: 1686645992.5/9	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: 124162.345 $\pm$ 0.043	χ^2 /NDF: 9008510334.9/24
Left In: 120174.988 $\pm$ 0.062	χ^2 /NDF: 1085999441.0/8	Out: 124510.023 $\pm$ 0.041	χ^2 /NDF: 9742926247.8/2
		All: 124341.124 $\pm$ 0.030	χ^2 /NDF: 187858360

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 148.593 $\pm$ 0.041 χ^2 /NDF: 827701.4/15

Left Out: 170.235 $\pm$ 0.044 χ^2 /NDF: 326391.8/9

Right Out: 141.563 $\pm$ 0.039 χ^2 /NDF: 1001225.3/18

Left In: 169.095 $\pm$ 0.044 χ^2 /NDF: 255647.7/8

Left: 169.658 $\pm$ 0.031 χ^2 /NDF: 582373.6/18

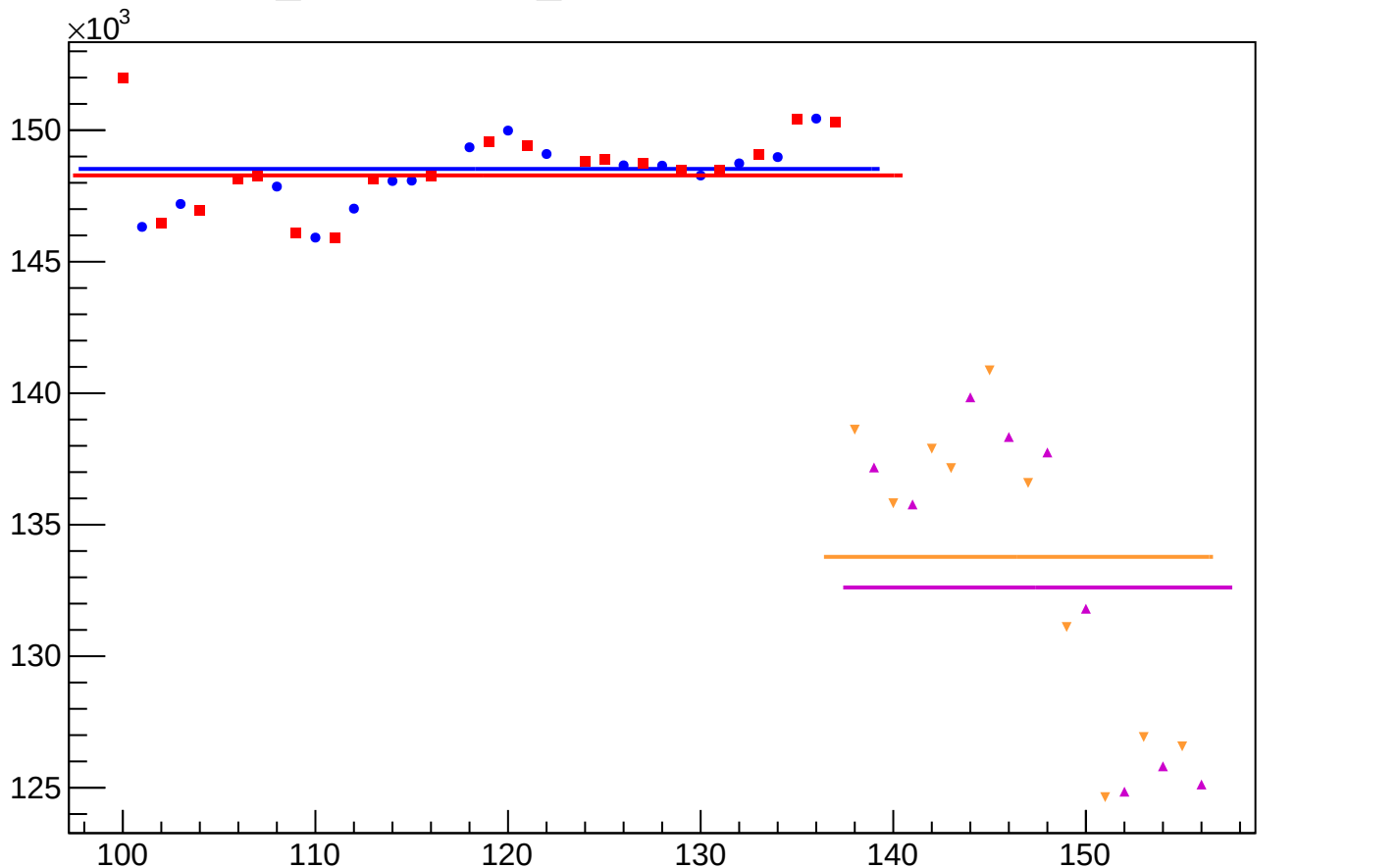
Right: 144.861 $\pm$ 0.028 χ^2 /NDF: 1844303.5/34

In: 158.239 $\pm$ 0.030 χ^2 /NDF: 1199258.6/24

Out: 154.004 $\pm$ 0.029 χ^2 /NDF: 1564193.9/28

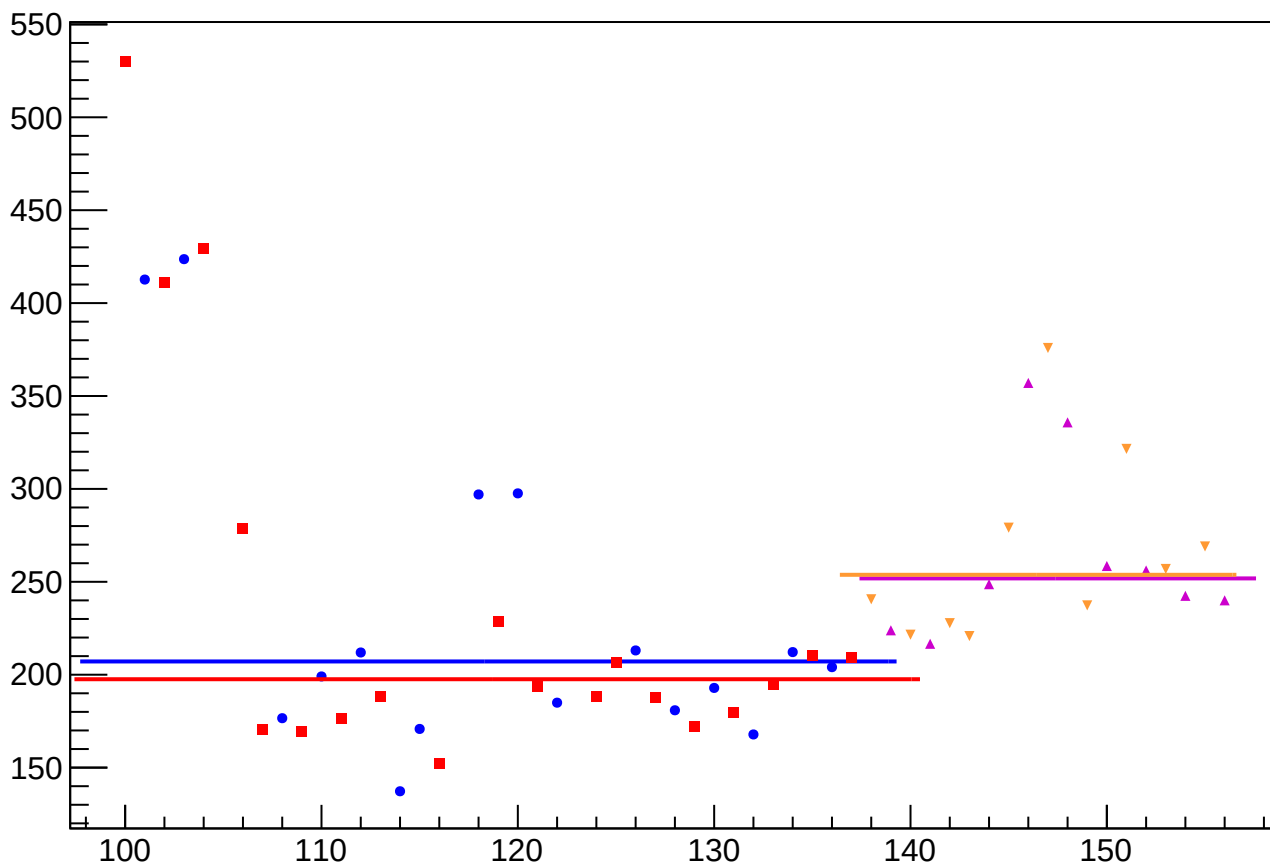
All: 156.061 $\pm$ 0.021 χ^2 /NDF: 2773662.8/53

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148527.678 $\pm$ 0.082	χ^2 /NDF: 209208133.0/15	Left: 133189.649 $\pm$ 0.065	χ^2 /NDF: 7167644925.4/1
Left Out: 133778.134 $\pm$ 0.093	χ^2 /NDF: 3154943760.4/9	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: 141486.736 $\pm$ 0.061	χ^2 /NDF: 20831233625.5/2
Left In: 132613.520 $\pm$ 0.092	χ^2 /NDF: 3933404002.2/8	Out: 142416.637 $\pm$ 0.059	χ^2 /NDF: 17946066563.1
		All: 141967.642 $\pm$ 0.043	χ^2 /NDF: 388967555

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 207.135+/-0.058 χ^2/NDF : 972216.9/15

Left Out: 253.772+/-0.066 χ^2/NDF : 355752.0/9

Right Out: 197.571+/-0.054 χ^2/NDF : 903999.3/18

Left In: 251.829+/-0.065 χ^2/NDF : 333019.1/8

Left: 252.790+/-0.046 χ^2/NDF : 689212.3/18

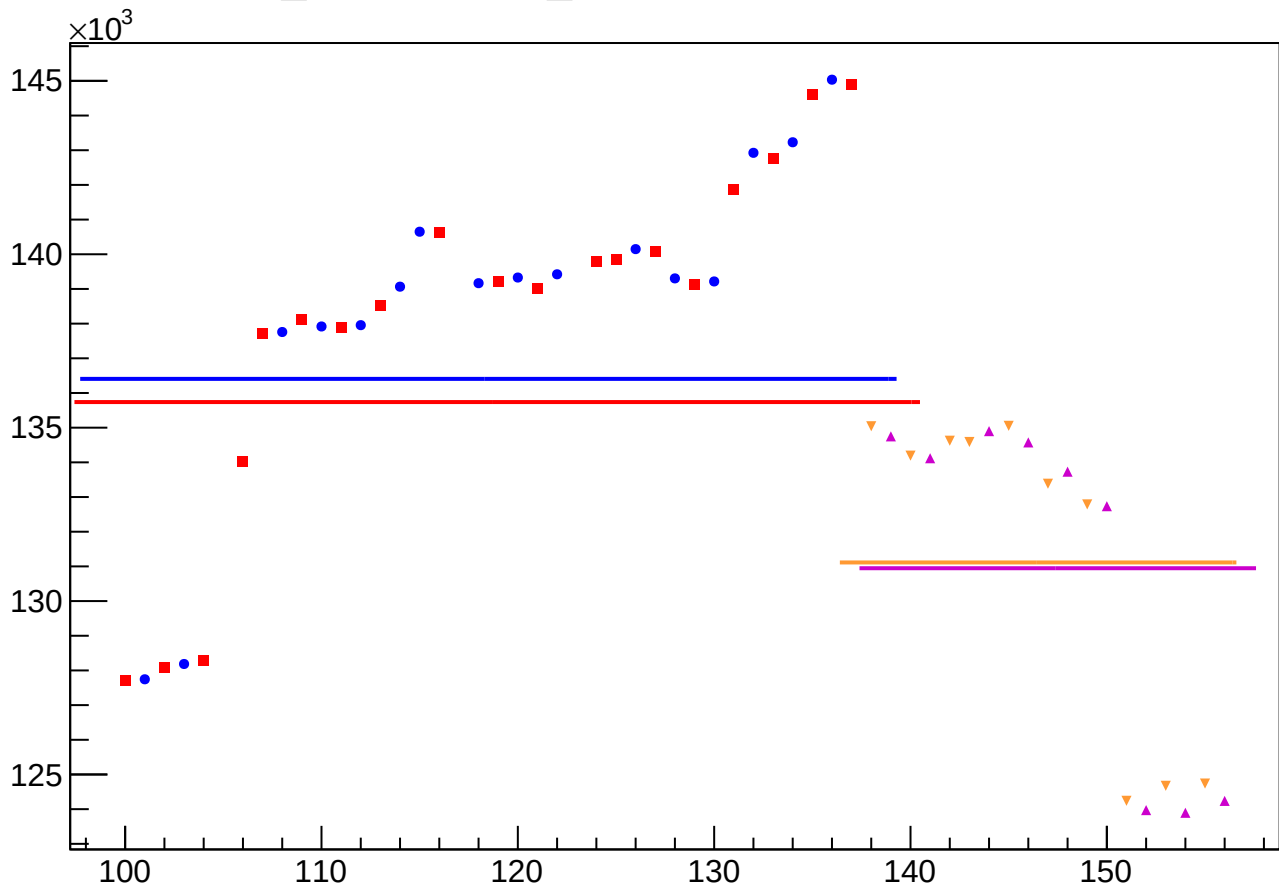
Right: 202.032+/-0.040 χ^2/NDF : 1890755.2/34

In: 226.909+/-0.043 χ^2/NDF : 1568497.0/24

Out: 220.299+/-0.042 χ^2/NDF : 1695069.9/28

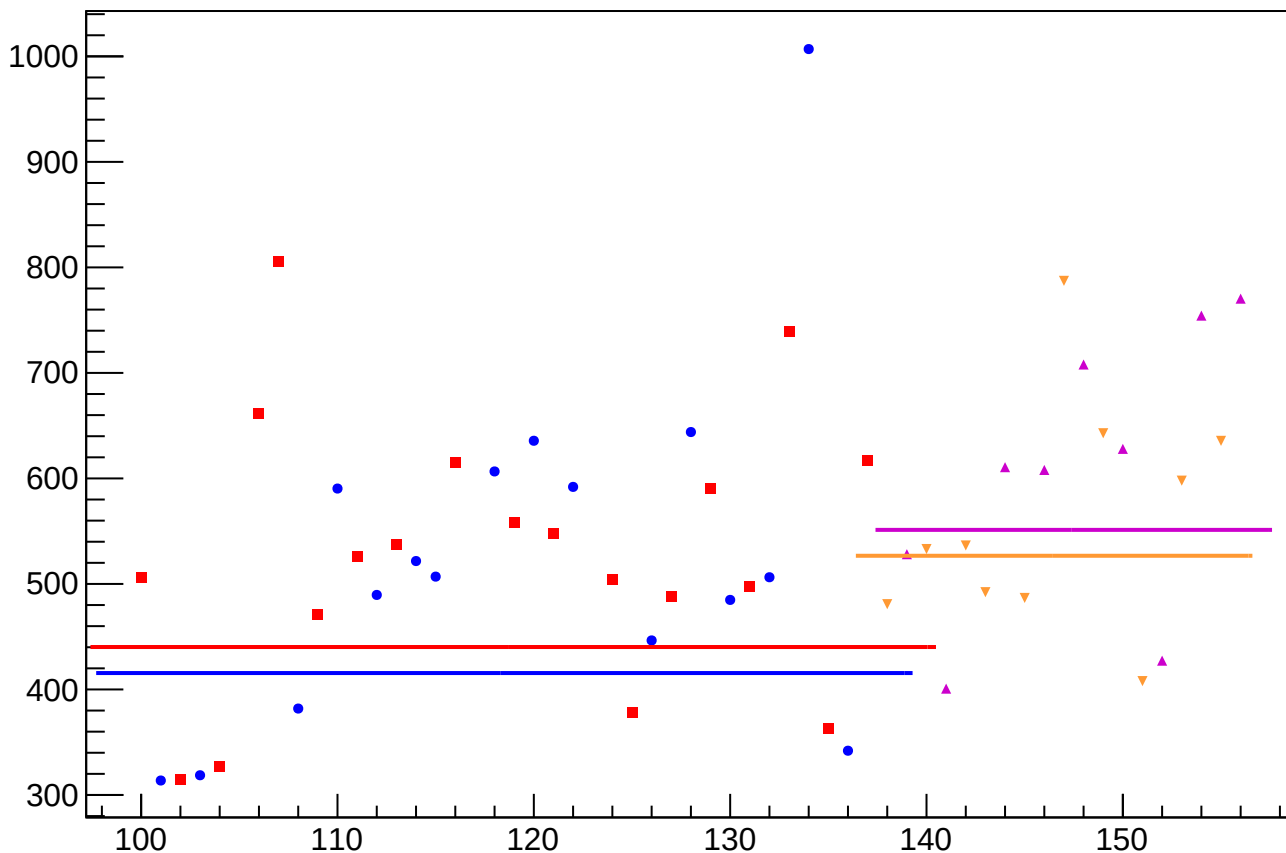
All: 223.490+/-0.030 χ^2/NDF : 3275640.6/53

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136406.923 $\pm$ 0.169	χ^2 /NDF: 1577071044.7/15	Left: 131037.415 $\pm$ 0.147	χ^2 /NDF: 1041834172.4/15
Left Out: 131113.696 $\pm$ 0.200	χ^2 /NDF: 559371169.2/9	Right: 136088.335 $\pm$ 0.122	χ^2 /NDF: 2758689484.9/9
Right Out: 135738.412 $\pm$ 0.177	χ^2 /NDF: 1174123878.0/18	In: 134357.825 $\pm$ 0.133	χ^2 /NDF: 2452905961.8/24
Left In: 130947.041 $\pm$ 0.217	χ^2 /NDF: 482144600.3/8	Out: 133709.285 $\pm$ 0.132	χ^2 /NDF: 2034144477.2/20
		All: 134031.398 $\pm$ 0.094	χ^2 /NDF: 449897553.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 415.547 $\pm$ 0.119 χ^2 /NDF: 1031600.7/15

Left Out: 526.702 $\pm$ 0.141 χ^2 /NDF: 432357.5/9

Right Out: 440.218 $\pm$ 0.125 χ^2 /NDF: 910790.1/18

Left In: 551.239 $\pm$ 0.154 χ^2 /NDF: 668047.5/8

Left: 537.933 $\pm$ 0.104 χ^2 /NDF: 1114209.0/18

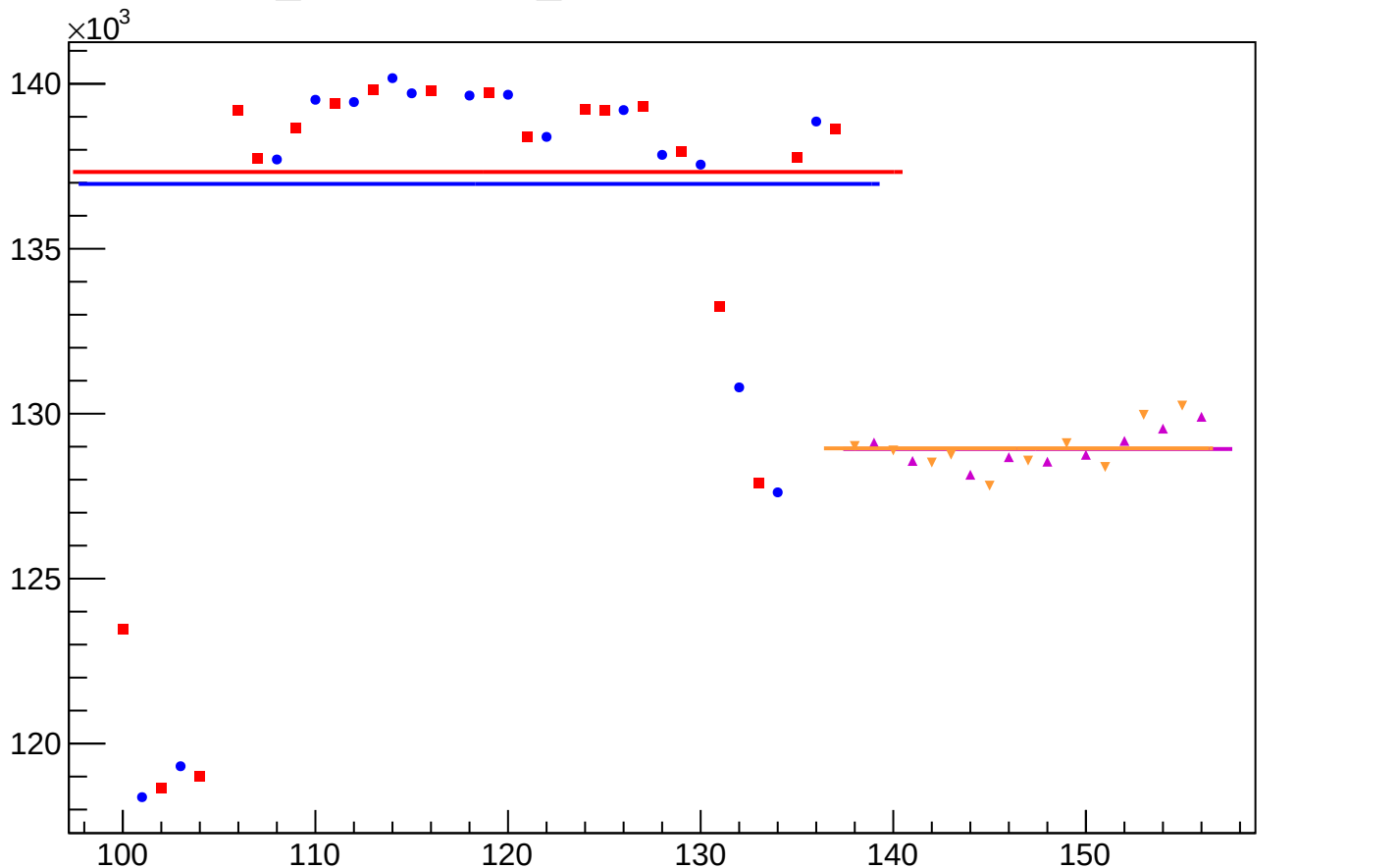
Right: 427.304 $\pm$ 0.086 χ^2 /NDF: 1962803.8/34

In: 466.472 $\pm$ 0.094 χ^2 /NDF: 2185968.5/24

Out: 478.163 $\pm$ 0.094 χ^2 /NDF: 1553426.5/28

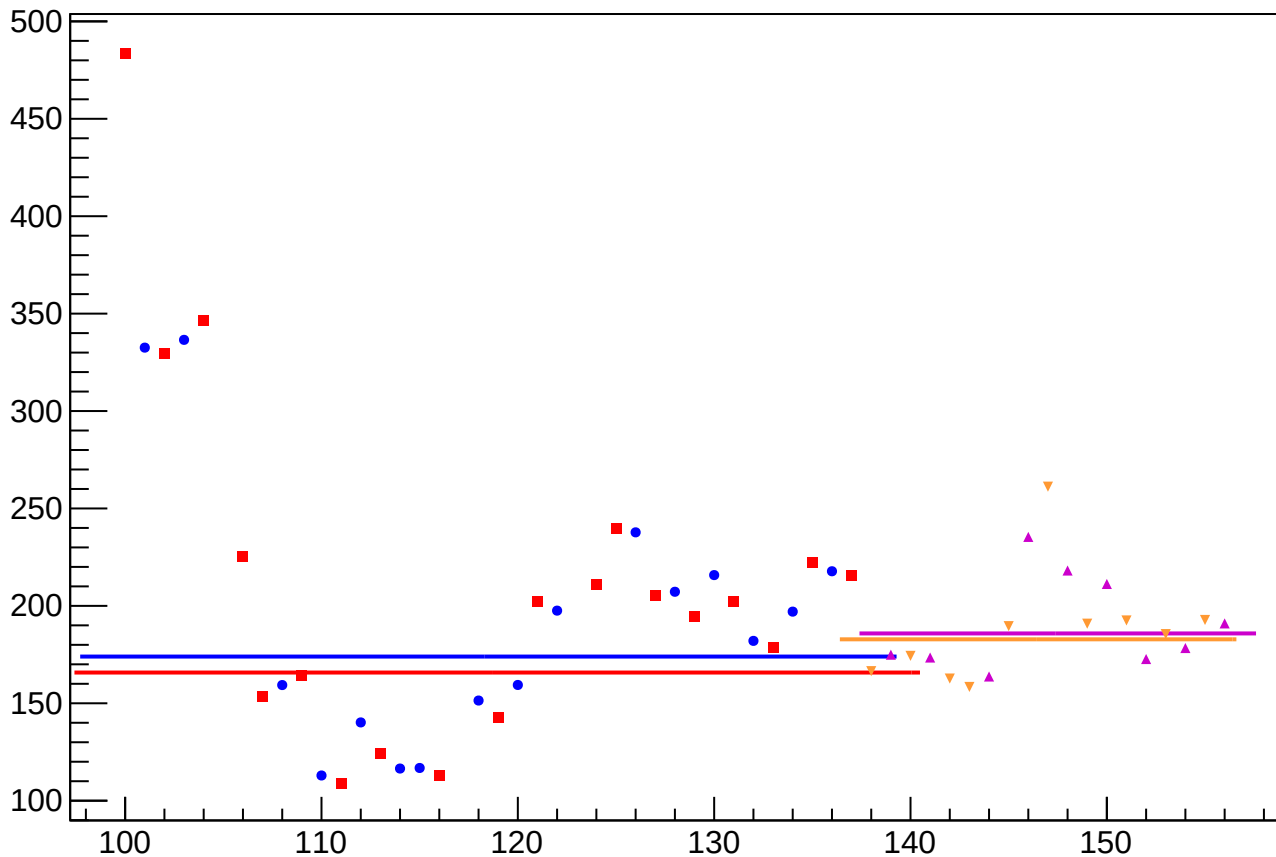
All: 472.357 $\pm$ 0.066 χ^2 /NDF: 3747145.1/53

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 136964.958 $\pm$ 0.070	χ^2 /NDF: 5807770301.4/15	Left: 128939.343 $\pm$ 0.048	χ^2 /NDF: 162879435.8/18
Left Out: 128949.192 $\pm$ 0.067	χ^2 /NDF: 101344192.9/9	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: 132826.491 $\pm$ 0.049	χ^2 /NDF: 12709319578.9/2
Left In: 128929.210 $\pm$ 0.068	χ^2 /NDF: 61491016.9/8	Out: 133206.932 $\pm$ 0.047	χ^2 /NDF: 13854505997.2
		All: 133023.789 $\pm$ 0.034	χ^2 /NDF: 265956580

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.982+/-0.049 χ^2/NDF : 1188493.1/15

Left Out: 182.829+/-0.047 χ^2/NDF : 230002.1/9

Right Out: 165.780+/-0.046 χ^2/NDF : 1433162.4/18

Left In: 185.853+/-0.048 χ^2/NDF : 200297.6/8

Left: 184.320+/-0.034 χ^2/NDF : 432325.2/18

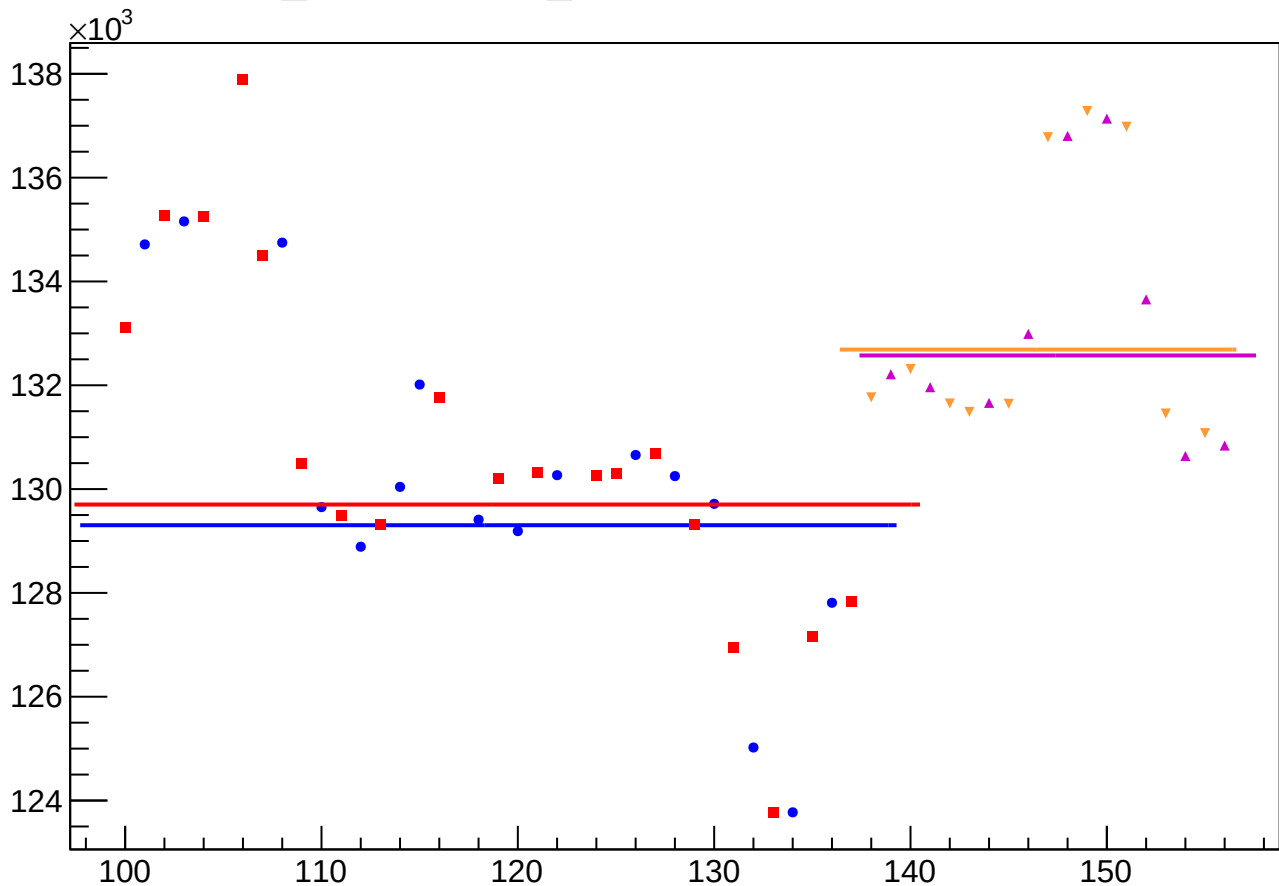
Right: 169.633+/-0.034 χ^2/NDF : 2636327.1/34

In: 180.096+/-0.034 χ^2/NDF : 1418647.0/24

Out: 174.165+/-0.033 χ^2/NDF : 1729543.7/28

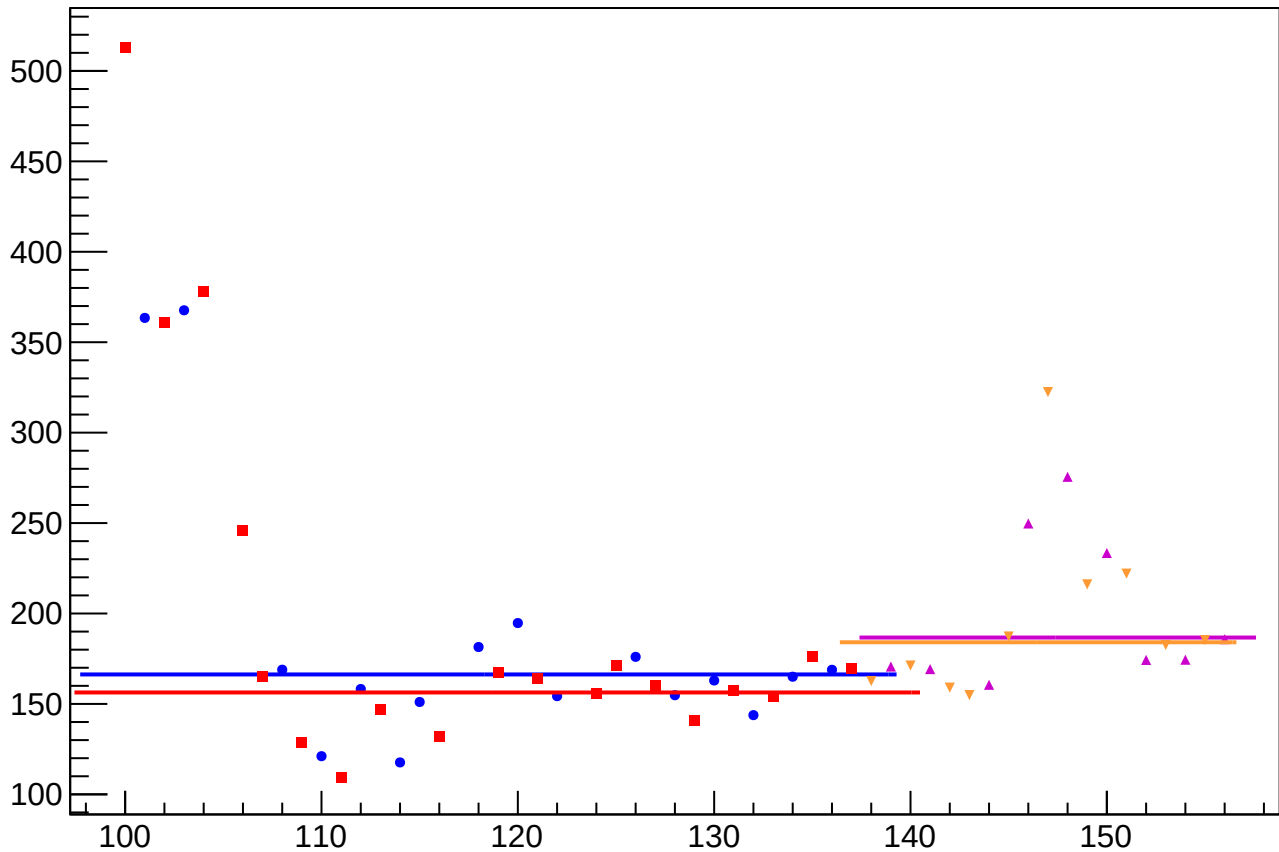
All: 177.020+/-0.024 χ^2/NDF : 3163660.6/53

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 129303.894+/-0.066	χ^2/NDF : 1650235360.7/15	Left: 132631.511+/-0.048	χ^2/NDF : 1797759099.6/15
Left Out: 132687.622+/-0.068	χ^2/NDF : 1016804166.3/9	Right: 129517.750+/-0.045	χ^2/NDF : 3447412906.7/15
Right Out: 129702.568+/-0.062	χ^2/NDF : 1777723481.2/18	In: 130880.563+/-0.048	χ^2/NDF : 3606396441.2/24
Left In: 132574.366+/-0.069	χ^2/NDF : 779580287.0/8	Out: 131046.843+/-0.046	χ^2/NDF : 3853997816.0/24
		All: 130967.293+/-0.033	χ^2/NDF : 746674802.0/47

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 166.302 $\pm$ 0.047 χ^2 /NDF: 937947.6/15

Left Out: 184.094 $\pm$ 0.048 χ^2 /NDF:496376.8/9

Right Out: 156.334 $\pm$ 0.044 χ^2 /NDF: 1172834.9/18

Left In: 186.705 $\pm$ 0.049 χ^2 /NDF:446771.2/8

Left: 185.388 $\pm$ 0.034 χ^2 /NDF: 944608.4/18

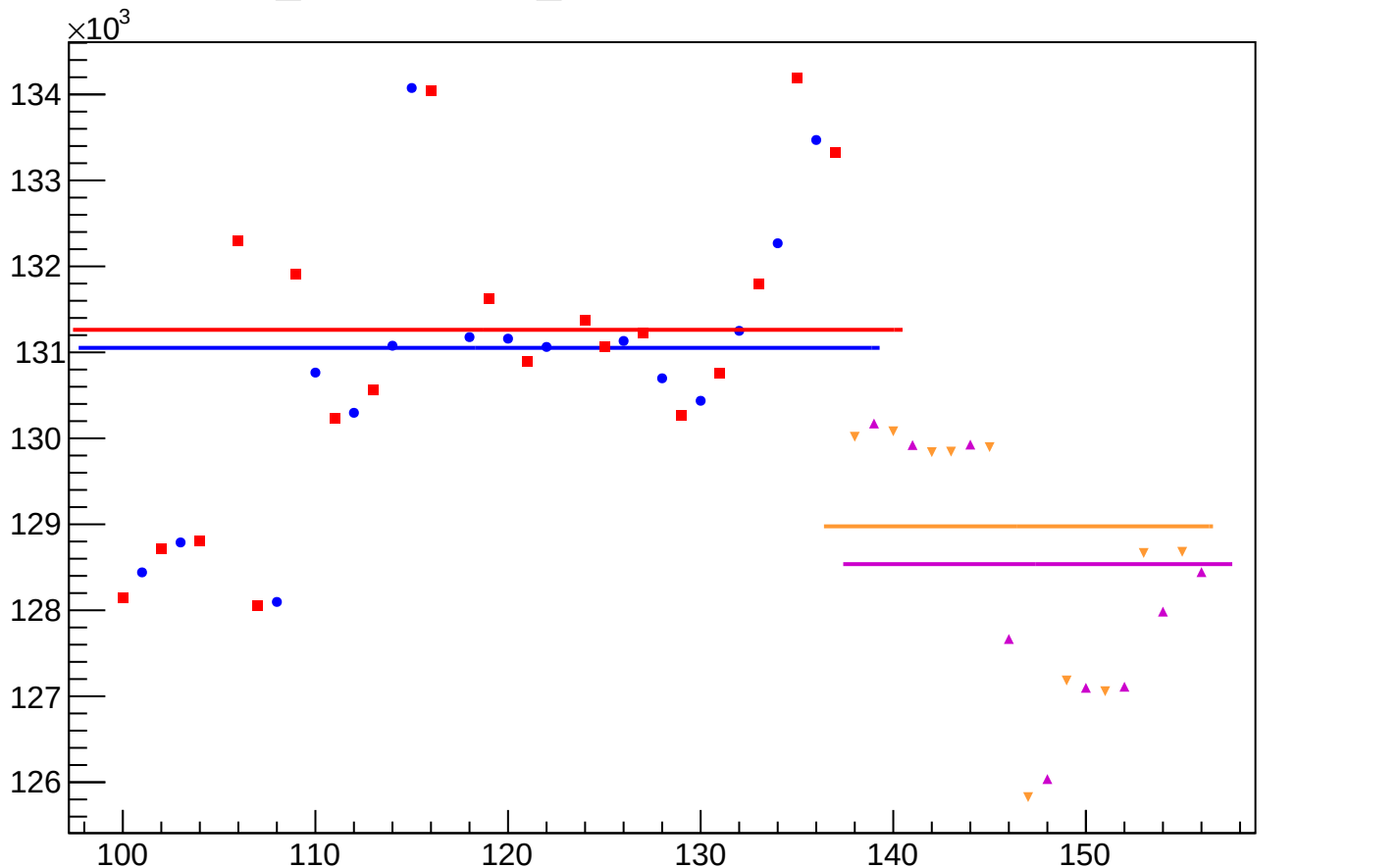
Right: 160.955 $\pm$ 0.032 χ^2 /NDF: 2135107.2/34

In: 176.138 $\pm$ 0.034 χ^2 /NDF:1476297.1/24

Out: 168.836 $\pm$ 0.032 χ^2 /NDF:1852470.7/28

All: 172.329 $\pm$ 0.023 χ^2 /NDF: 3353277.5/53

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 131052.422 $\pm$ 0.061 χ^2 /NDF: 523713045.8/15

Left Out: 128976.467 $\pm$ 0.064 χ^2 /NDF: 403395137.6/9

Right Out: 131262.232 $\pm$ 0.057 χ^2 /NDF: 604278186.1/18

Left In: 128536.851 $\pm$ 0.065 χ^2 /NDF: 443383459.9/8

Left: 128760.307 $\pm$ 0.046 χ^2 /NDF: 869844297.6/18

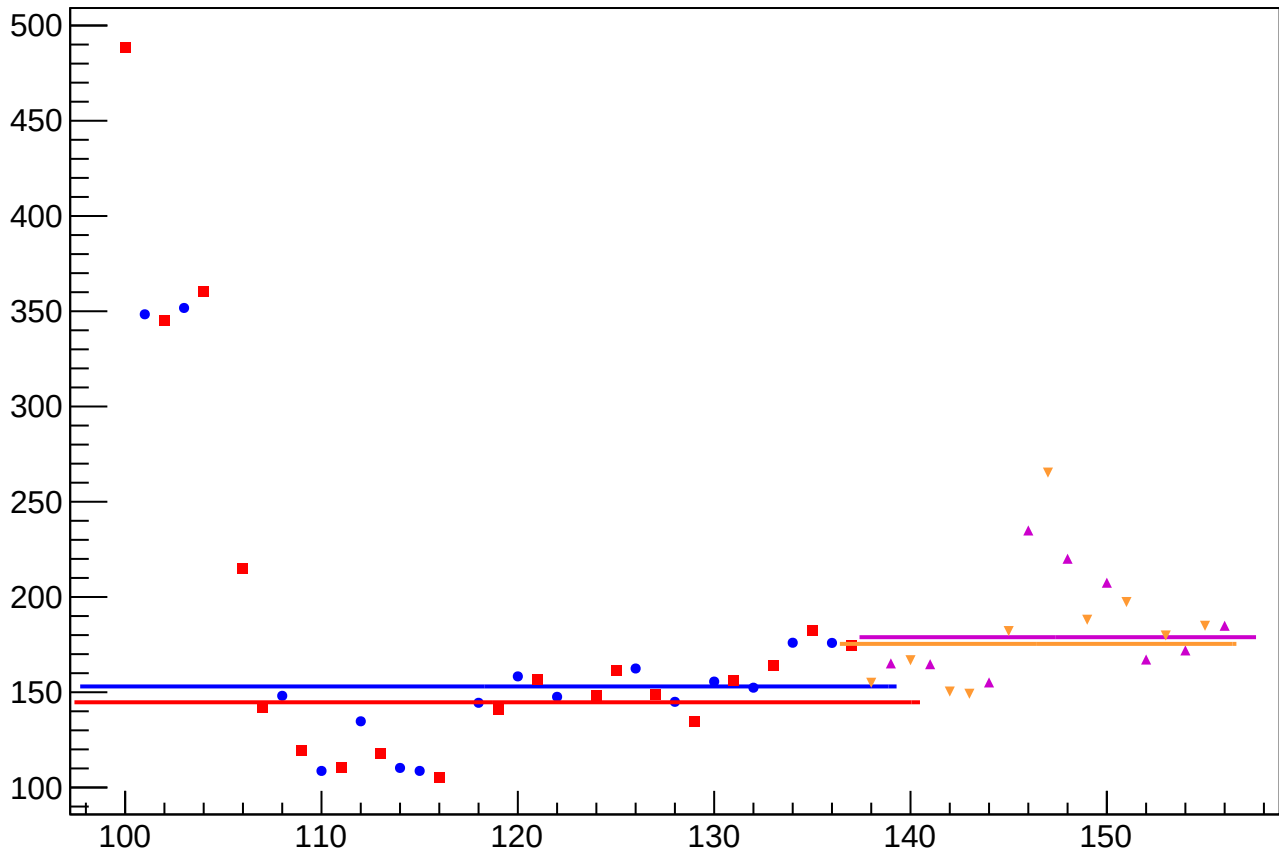
Right: 131164.431 $\pm$ 0.041 χ^2 /NDF: 1134382049.3/15

In: 129886.821 $\pm$ 0.044 χ^2 /NDF: 1764471493.1/24

Out: 130261.072 $\pm$ 0.042 χ^2 /NDF: 1720392205.2/24

All: 130082.312 $\pm$ 0.031 χ^2 /NDF: 352193843.1/57

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 153.043 $\pm$ 0.043 χ^2 /NDF: 1059470.3/15

Left Out: 175.388 $\pm$ 0.045 χ^2 /NDF:326177.7/9

Right Out: 144.731 $\pm$ 0.040 χ^2 /NDF: 1263423.6/18

Left In: 178.903 $\pm$ 0.046 χ^2 /NDF:268389.9/8

Left: 177.116 $\pm$ 0.032 χ^2 /NDF: 597517.6/18

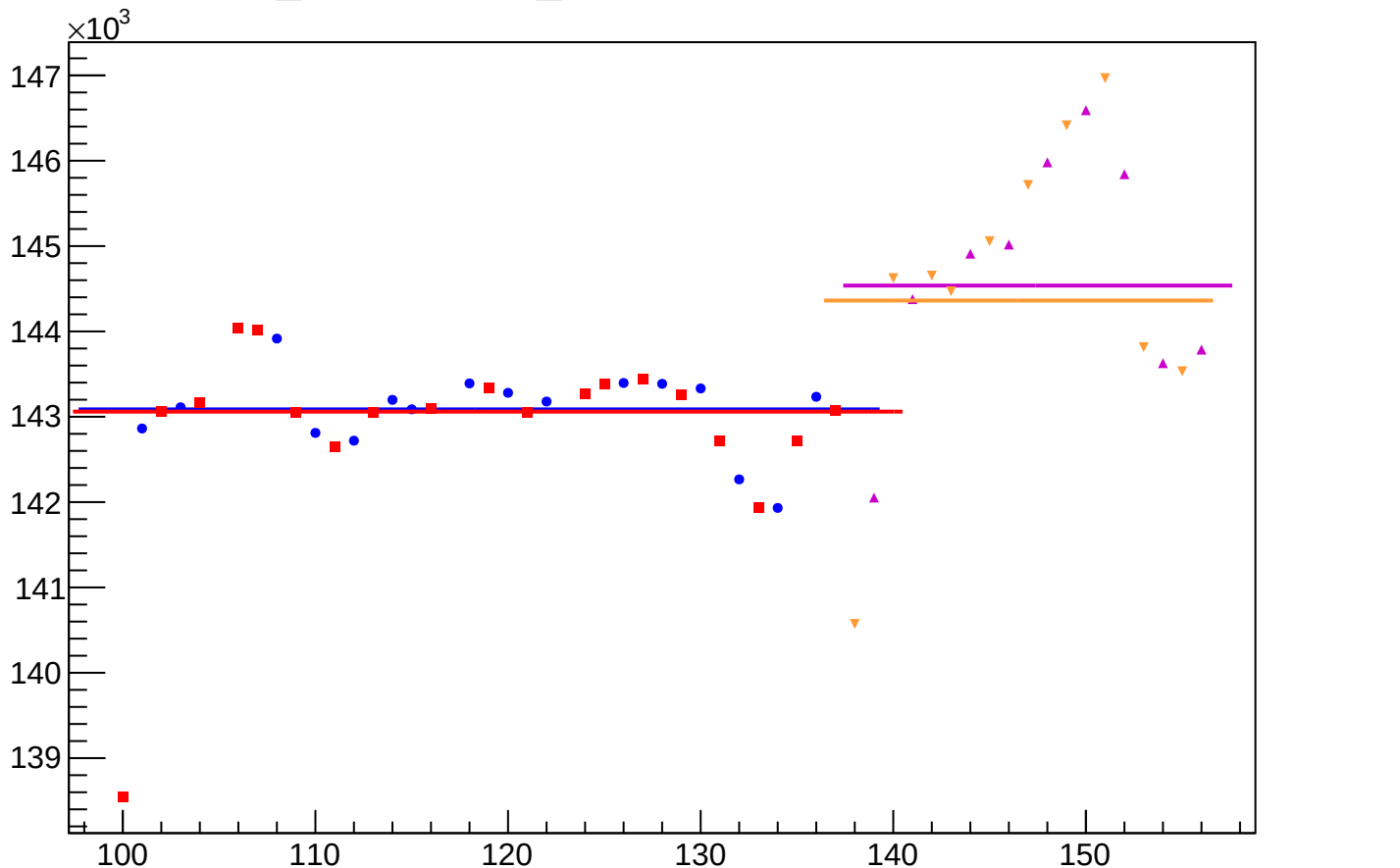
Right: 148.605 $\pm$ 0.029 χ^2 /NDF: 2342954.4/34

In: 165.025 $\pm$ 0.031 χ^2 /NDF:1496400.1/24

Out: 158.158 $\pm$ 0.030 χ^2 /NDF:1846021.2/28

All: 161.438 $\pm$ 0.022 χ^2 /NDF: 3367384.3/53

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 143086.477 $\pm$ 0.065 χ^2 /NDF: 46726277.8/15

Left Out: 144361.892 $\pm$ 0.075 χ^2 /NDF: 561576539.4/9

Right Out: 143060.268 $\pm$ 0.061 χ^2 /NDF: 51715744.7/18

Left In: 144537.220 $\pm$ 0.075 χ^2 /NDF: 311810565.4/8

Left: 144449.015 $\pm$ 0.053 χ^2 /NDF: 876101633.4/18

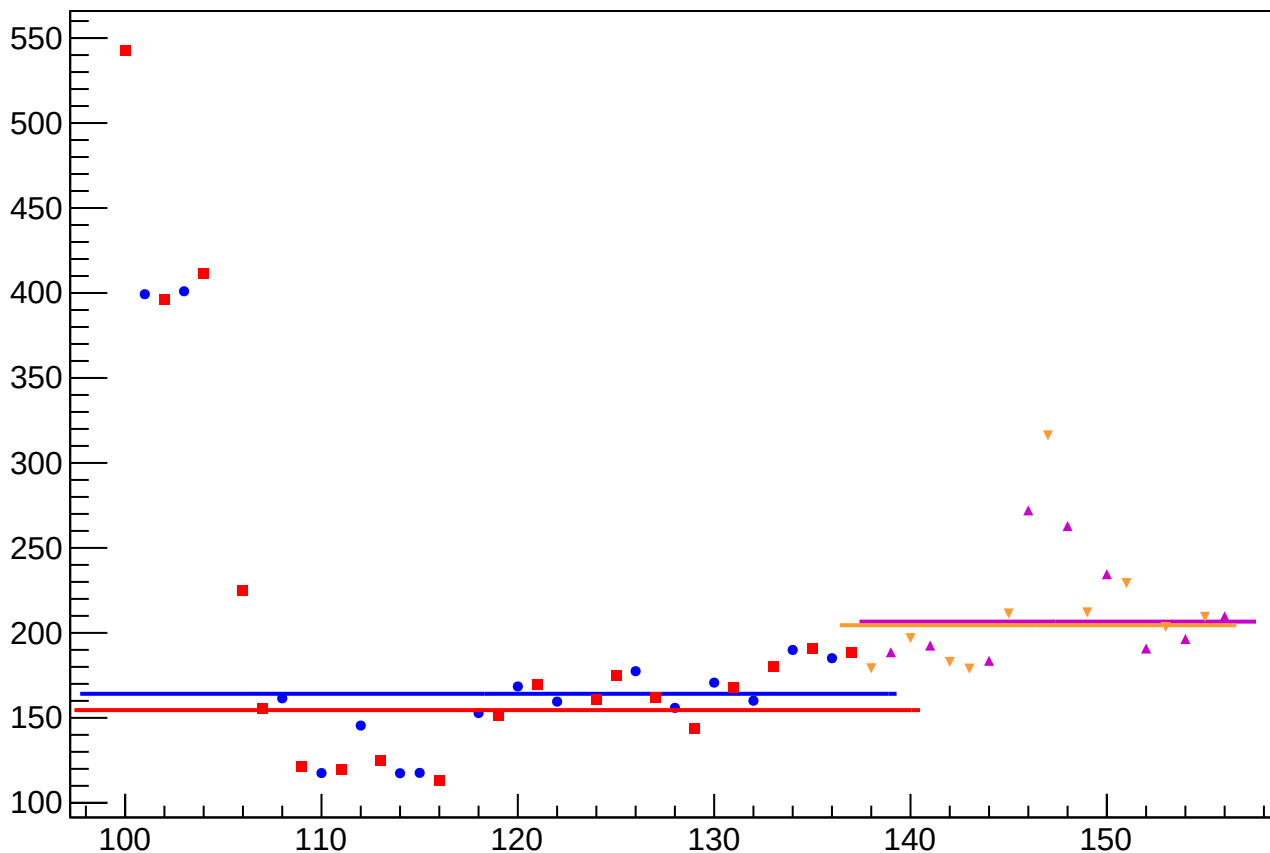
Right: 143072.451 $\pm$ 0.044 χ^2 /NDF: 98528807.3/34

In: 143705.140 $\pm$ 0.049 χ^2 /NDF: 570424447.5/24

Out: 143574.845 $\pm$ 0.047 χ^2 /NDF: 795345138.1/28

All: 143637.125 $\pm$ 0.034 χ^2 /NDF: 136941728

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 164.167+/-0.046 χ^2/NDF : 1129764.4/15

Left Out: 204.493+/-0.053 χ^2/NDF :304314.6/9

Right Out: 154.558+/-0.043 χ^2/NDF : 1366830.5/18

Left In: 206.633+/-0.053 χ^2/NDF :268872.8/8

Left: 205.556+/-0.038 χ^2/NDF : 573996.5/18

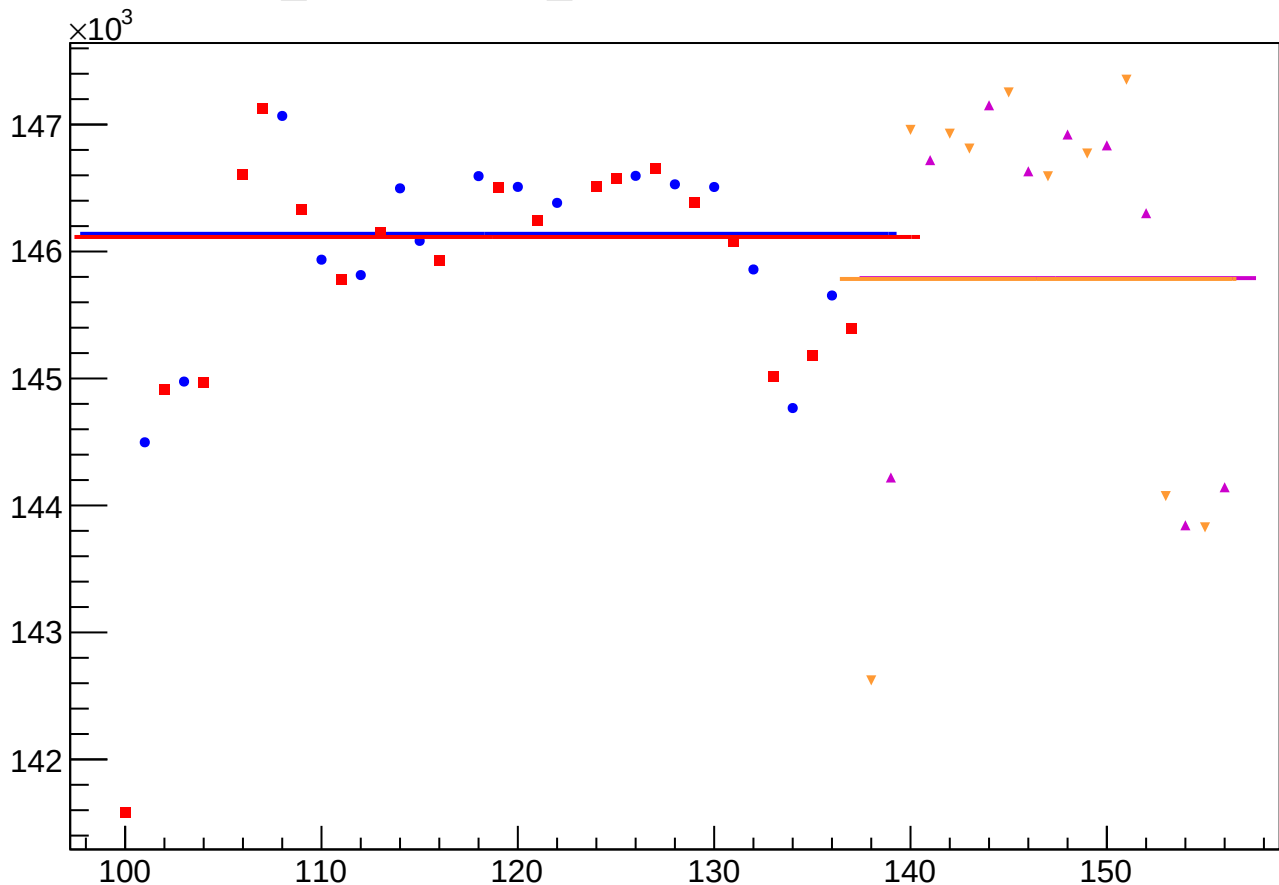
Right: 159.024+/-0.031 χ^2/NDF : 2519924.8/34

In: 182.276+/-0.035 χ^2/NDF :1761755.0/24

Out: 174.299+/-0.033 χ^2/NDF :2207022.2/28

All: 178.112+/-0.024 χ^2/NDF : 3996124.4/53

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 146139.237 $\pm$ 0.067

χ^2 /NDF: 71721843.8/15

Left: 145787.128 $\pm$ 0.053

χ^2 /NDF: 847989909.0/18

Left Out: 145783.862 $\pm$ 0.074

χ^2 /NDF: 535815622.7/9

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: 145983.184 $\pm$ 0.050

χ^2 /NDF: 395875771.4/24

Out: 145976.756 $\pm$ 0.048

χ^2 /NDF: 620579386.6/28

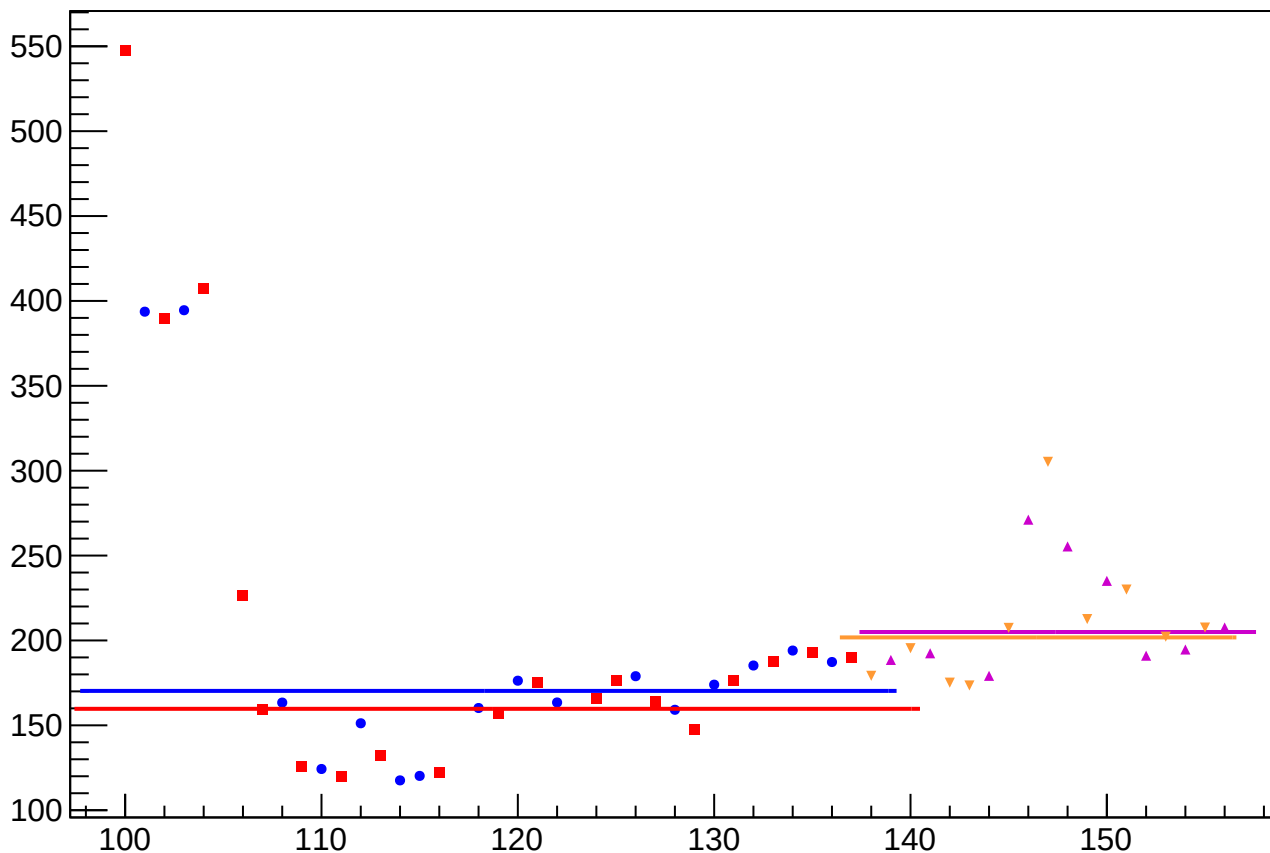
Left In: 145790.477 $\pm$ 0.075

χ^2 /NDF: 312170335.3/8

All: 145979.814 $\pm$ 0.035

χ^2 /NDF: 101646378

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.279 $\pm$ 0.048 χ^2/NDF : 1057631.0/15

Left Out: 201.785 $\pm$ 0.052 χ^2/NDF :306593.3/9

Right Out: 159.724 $\pm$ 0.044 χ^2/NDF : 1291290.8/18

Left In: 204.976 $\pm$ 0.053 χ^2/NDF :266099.2/8

Left: 203.360 $\pm$ 0.037 χ^2/NDF : 574531.2/18

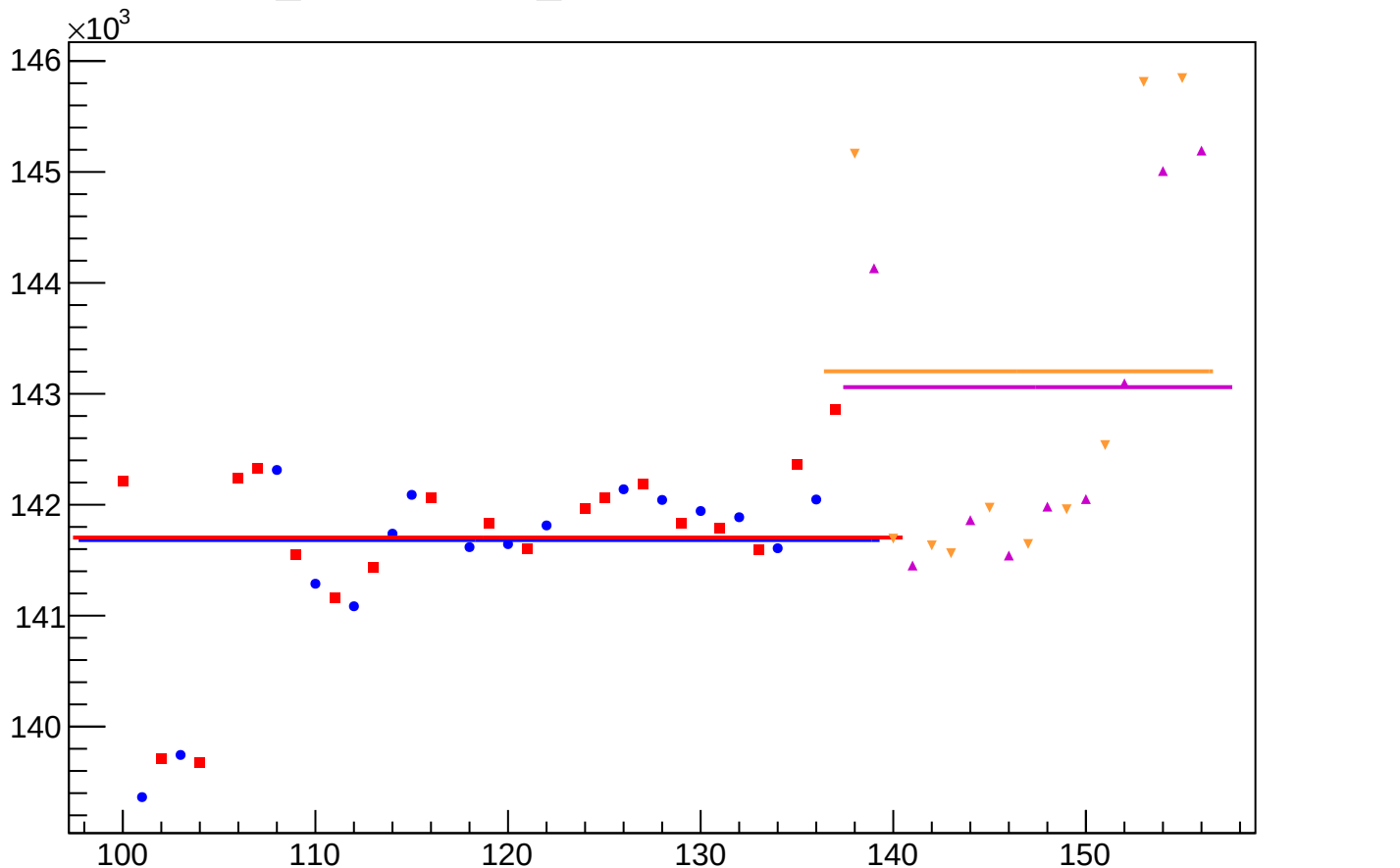
Right: 164.603 $\pm$ 0.032 χ^2/NDF : 2375303.6/34

In: 185.804 $\pm$ 0.035 χ^2/NDF :1560954.8/24

Out: 177.244 $\pm$ 0.034 χ^2/NDF :1975417.9/28

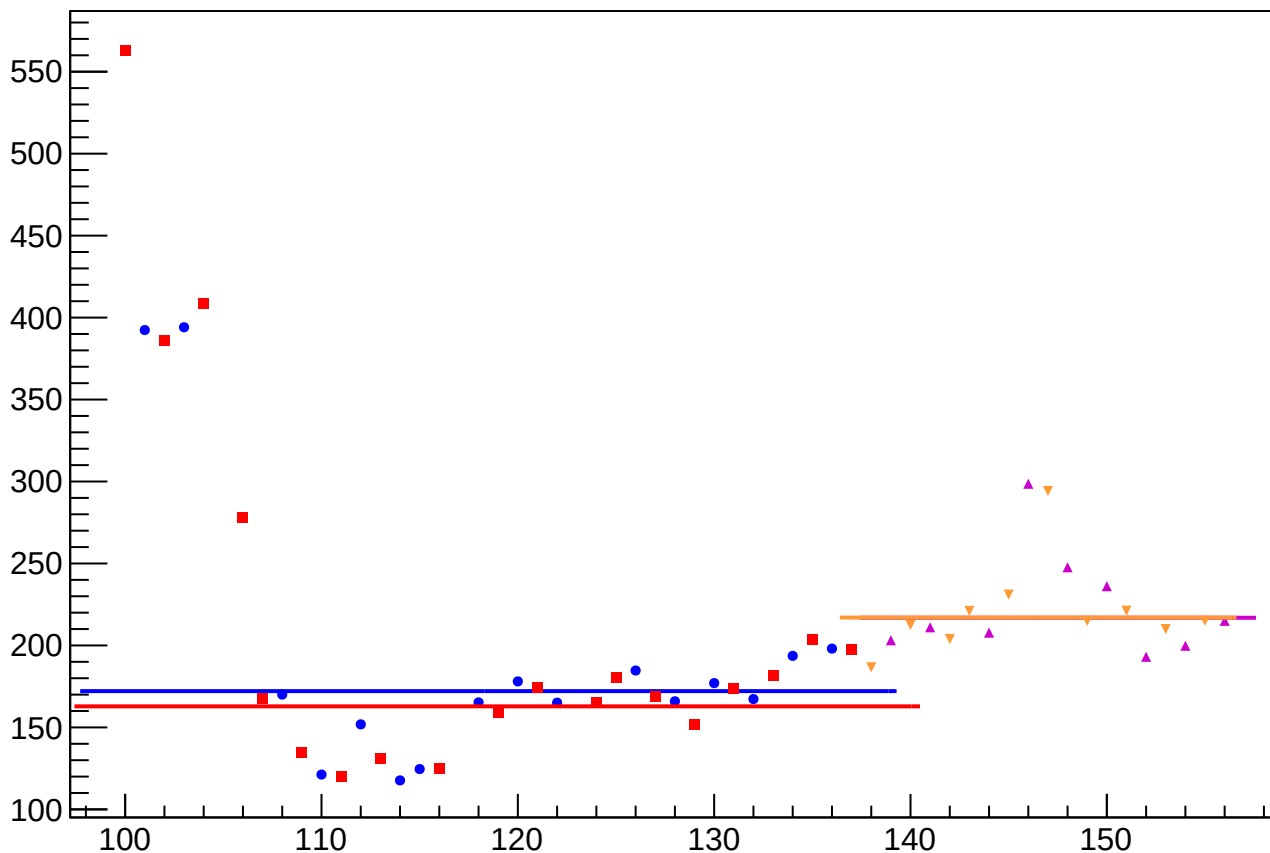
All: 181.317 $\pm$ 0.024 χ^2/NDF : 3566989.3/53

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 141681.846 $\pm$ 0.068	χ^2 /NDF: 64292997.9/15	Left: 143131.543 $\pm$ 0.056	χ^2 /NDF: 833882410.6/18
Left Out: 143202.648 $\pm$ 0.079	χ^2 /NDF: 516960432.2/9	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: 142269.762 $\pm$ 0.052	χ^2 /NDF: 553446168.9/24
Left In: 143060.110 $\pm$ 0.079	χ^2 /NDF: 315296928.6/8	Out: 142295.872 $\pm$ 0.050	χ^2 /NDF: 800350681.8/28
		All: 142283.351 $\pm$ 0.036	χ^2 /NDF: 135392960

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 172.139+/-0.048 χ^2/NDF : 1068587.8/15

Left Out: 217.006+/-0.056 χ^2/NDF :166519.8/9

Right Out: 162.845+/-0.045 χ^2/NDF : 1305855.8/18

Left In: 216.893+/-0.056 χ^2/NDF :217145.1/8

Left: 216.949+/-0.040 χ^2/NDF : 383667.0/18

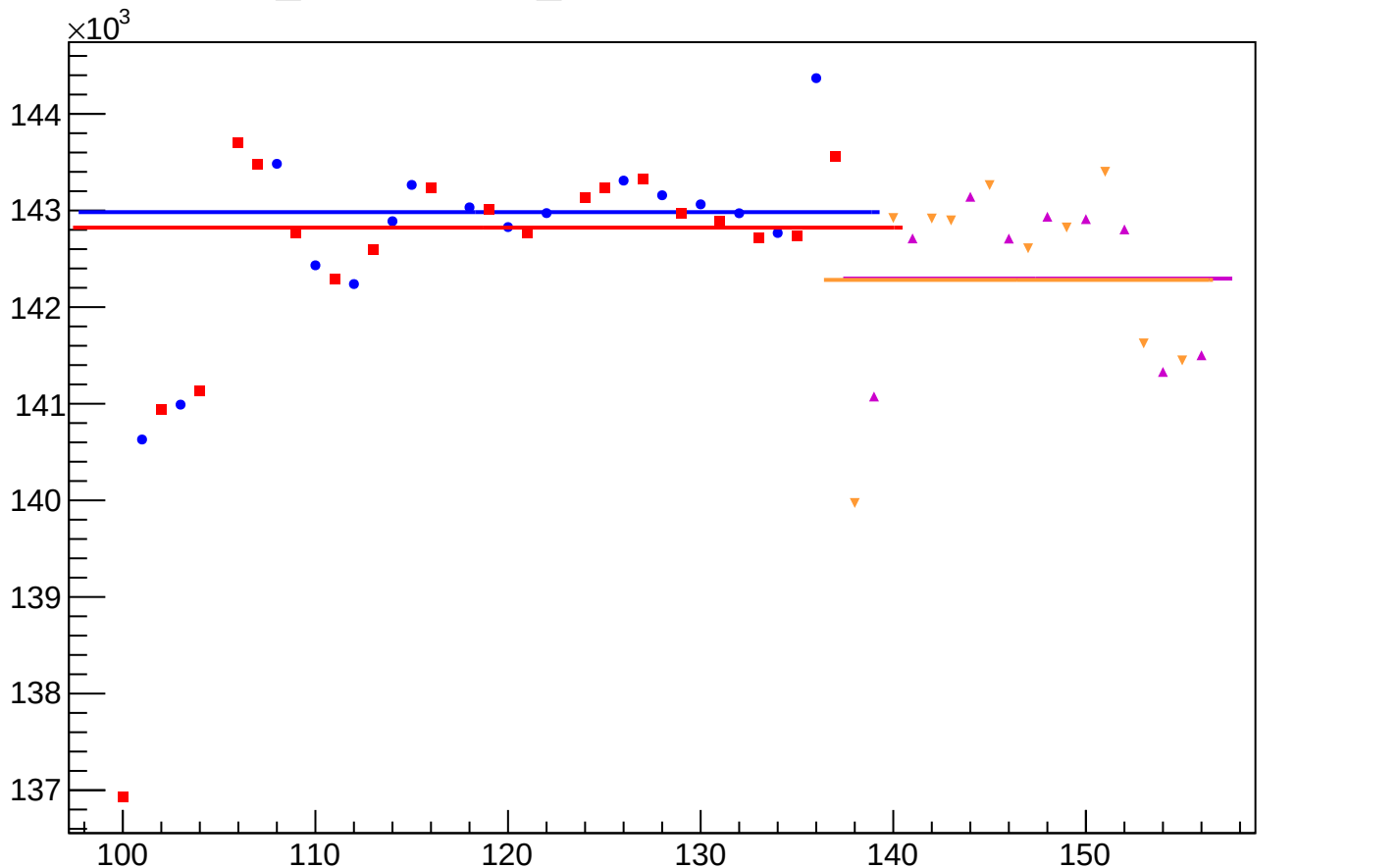
Right: 167.177+/-0.033 χ^2/NDF : 2394232.5/34

In: 191.229+/-0.037 χ^2/NDF :1652352.2/24

Out: 184.231+/-0.035 χ^2/NDF :2041617.2/28

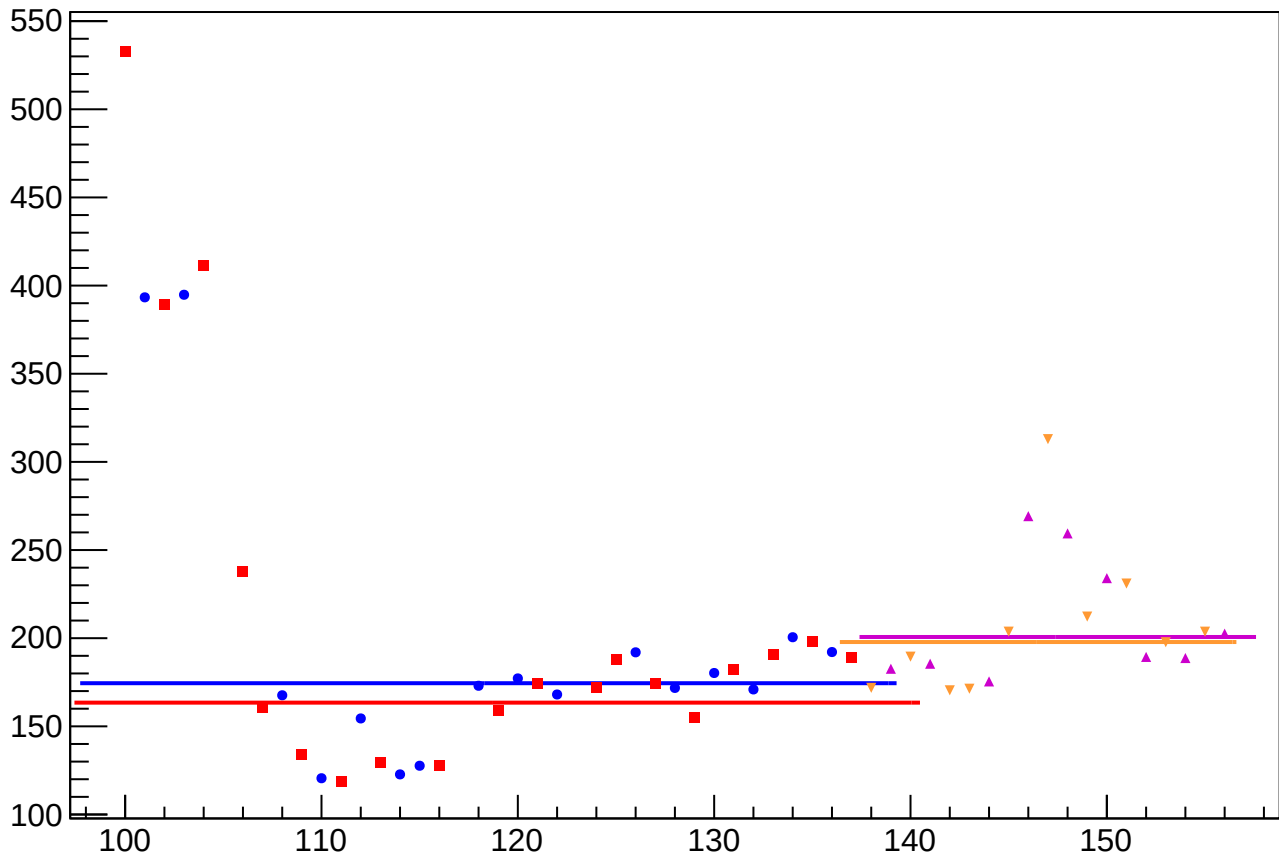
All: 187.587+/-0.025 χ^2/NDF : 3713043.8/53

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 142983.006 $\pm$ 0.069	χ^2 /NDF: 107696217.2/15	Left: 142288.526 $\pm$ 0.052	χ^2 /NDF: 343457479.9/18
Left Out: 142281.720 $\pm$ 0.073	χ^2 /NDF: 227411898.6/9	Right: 142896.762 $\pm$ 0.047	χ^2 /NDF: 174171580.7/3
Right Out: 142822.727 $\pm$ 0.064	χ^2 /NDF: 63581232.6/18	In: 142659.669 $\pm$ 0.050	χ^2 /NDF: 270267197.8/24
Left In: 142295.481 $\pm$ 0.073	χ^2 /NDF: 116027788.3/8	Out: 142585.835 $\pm$ 0.048	χ^2 /NDF: 322250760.9/28
		All: 142621.032 $\pm$ 0.035	χ^2 /NDF: 593645480.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 174.467 $\pm$ 0.049 χ^2 /NDF: 1049126.7/15

Left Out: 197.823 $\pm$ 0.051 χ^2 /NDF: 363035.1/9

Right Out: 163.448 $\pm$ 0.045 χ^2 /NDF: 1282494.1/18

Left In: 200.684 $\pm$ 0.052 χ^2 /NDF: 308990.0/8

Left: 199.238 $\pm$ 0.036 χ^2 /NDF: 673563.0/18

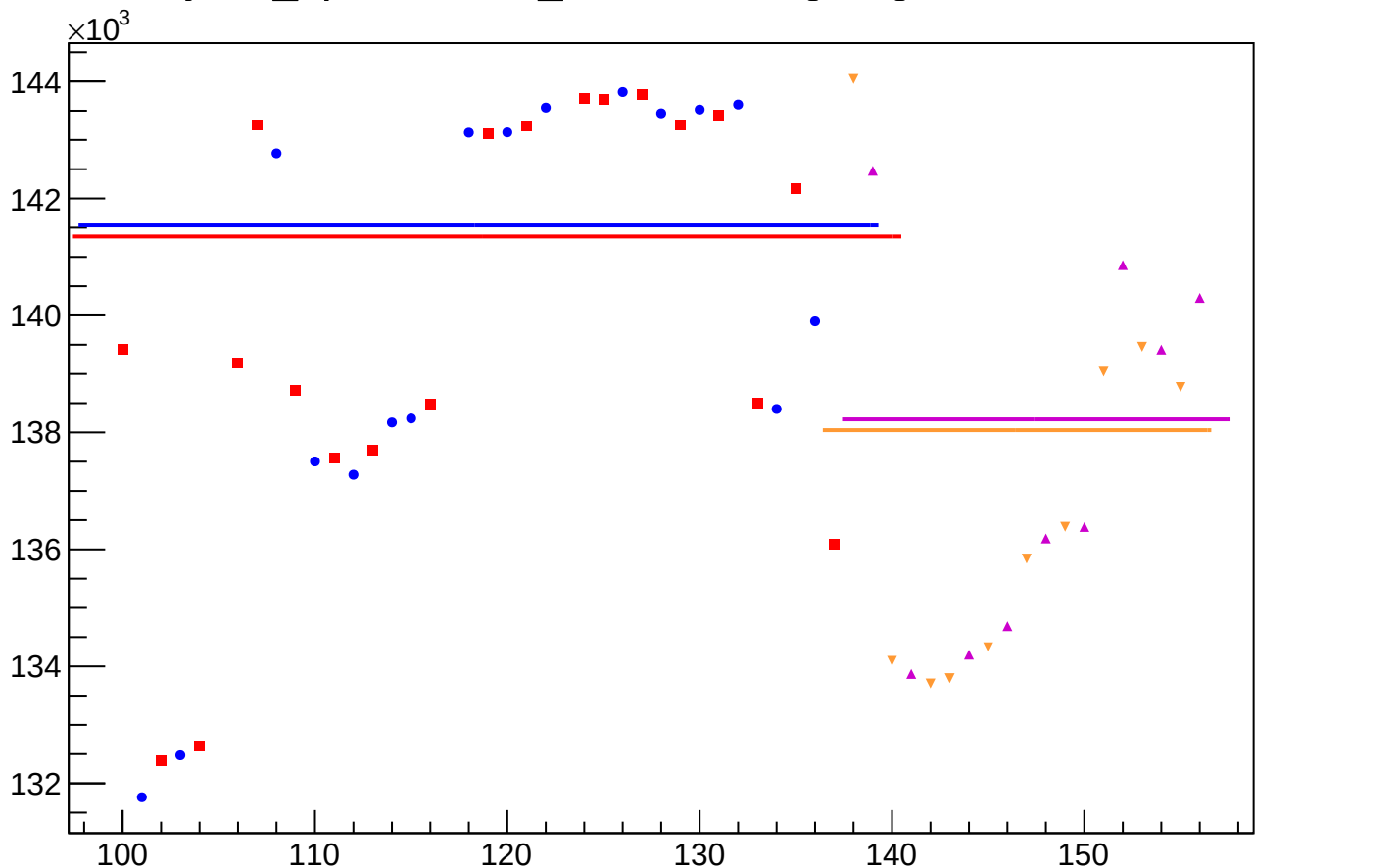
Right: 168.538 $\pm$ 0.033 χ^2 /NDF: 2358977.1/34

In: 186.797 $\pm$ 0.036 χ^2 /NDF: 1493473.6/24

Out: 178.500 $\pm$ 0.034 χ^2 /NDF: 1897915.4/28

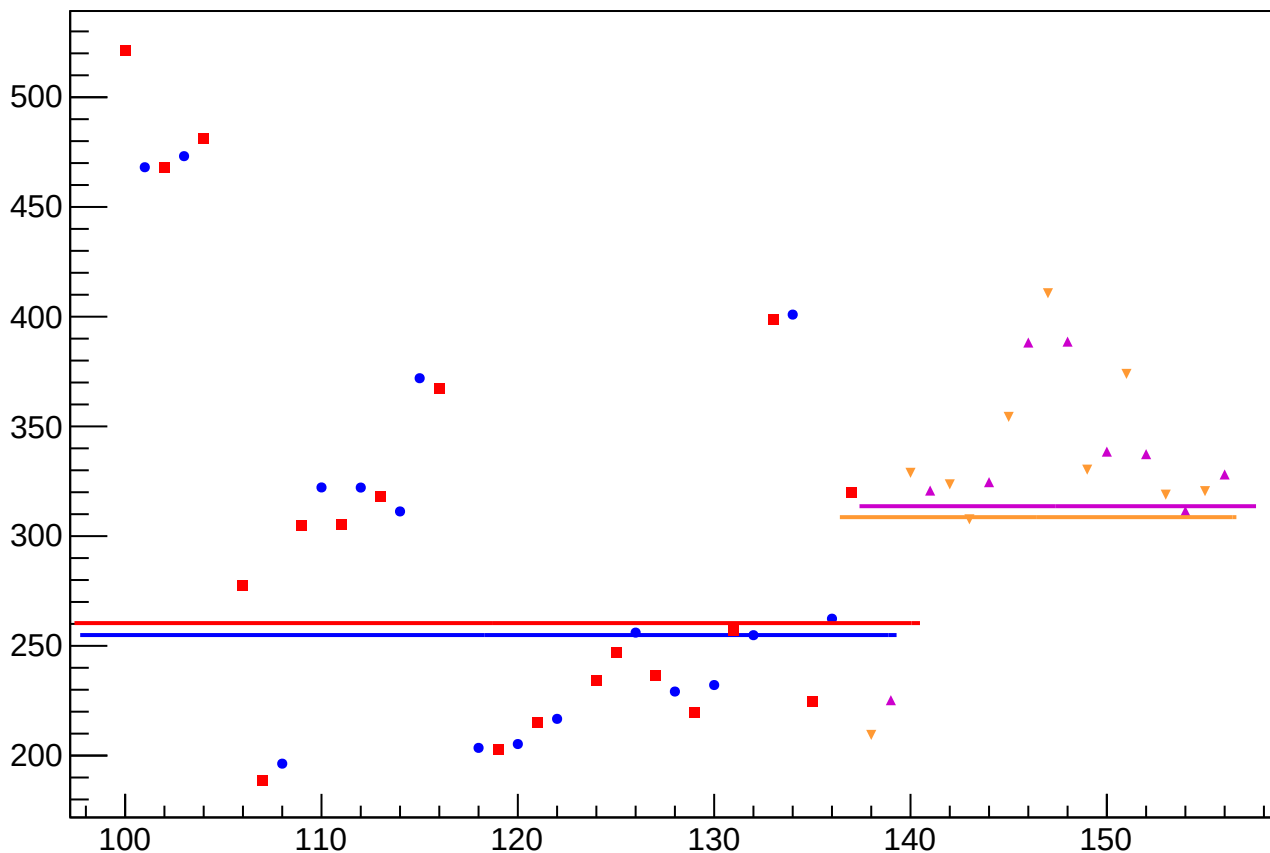
All: 182.455 $\pm$ 0.025 χ^2 /NDF: 3419863.2/53

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 141539.467 $\pm$ 0.101	χ^2/NDF : 947743743.7/15	Left: 138129.568 $\pm$ 0.081	χ^2/NDF : 1890940778.5/1
Left Out: 138038.383 $\pm$ 0.114	χ^2/NDF : 1101534683.8/9	Right: 141444.713 $\pm$ 0.071	χ^2/NDF : 1876176691.0/
Right Out: 141349.499 $\pm$ 0.101	χ^2/NDF : 926661757.9/18	In: 140110.468 $\pm$ 0.076	χ^2/NDF : 2202169213.8/24
Left In: 138223.171 $\pm$ 0.116	χ^2/NDF : 788117425.5/8	Out: 139897.501 $\pm$ 0.076	χ^2/NDF : 2498985624.1/2
		All: 140003.524 $\pm$ 0.054	χ^2/NDF : 470509275

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 254.919 ± 0.071 $\chi^2/\text{NDF}: 949952.1/15$

Left Out: 308.647 ± 0.081 $\chi^2/\text{NDF}: 531779.1/9$

Right Out: 260.369 ± 0.071 $\chi^2/\text{NDF}: 993300.6/18$

Left In: 313.637 ± 0.082 $\chi^2/\text{NDF}: 394298.2/8$

Left: 311.109 ± 0.058 $\chi^2/\text{NDF}: 927956.8/18$

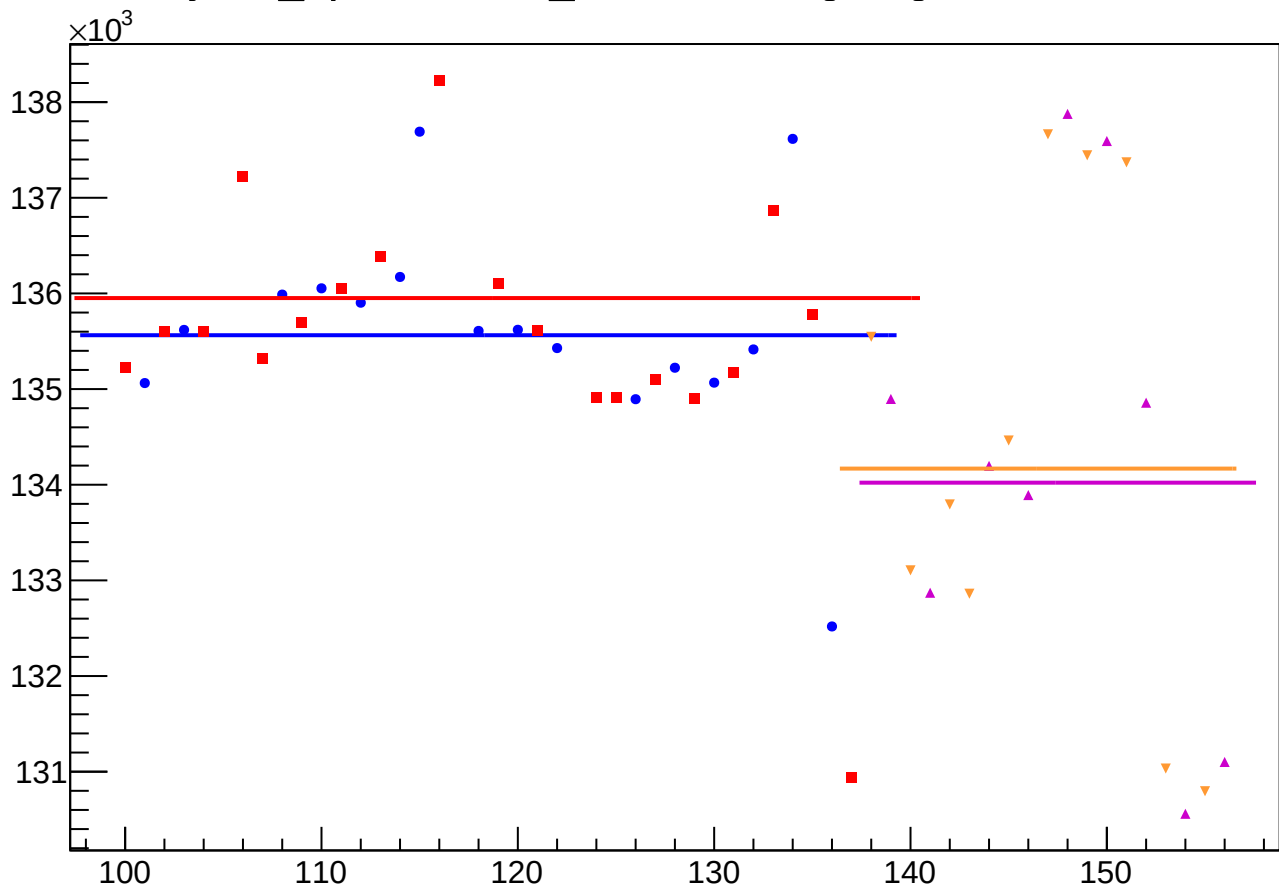
Right: 257.637 ± 0.050 $\chi^2/\text{NDF}: 1946167.7/34$

In: 280.221 ± 0.054 $\chi^2/\text{NDF}: 1636621.1/24$

Out: 281.540 ± 0.054 $\chi^2/\text{NDF}: 1725255.3/28$

All: 280.883 ± 0.038 $\chi^2/\text{NDF}: 3362178.4/53$

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 135563.062 $\pm$ 0.118 χ^2 /NDF: 94169293.7/15

Left Out: 134168.705 $\pm$ 0.088 χ^2 /NDF: 479416983.6/9

Right Out: 135951.486 $\pm$ 0.106 χ^2 /NDF: 91577209.6/18

Left In: 134021.508 $\pm$ 0.093 χ^2 /NDF: 380568760.1/8

Left: 134099.407 $\pm$ 0.064 χ^2 /NDF: 861301371.4/18

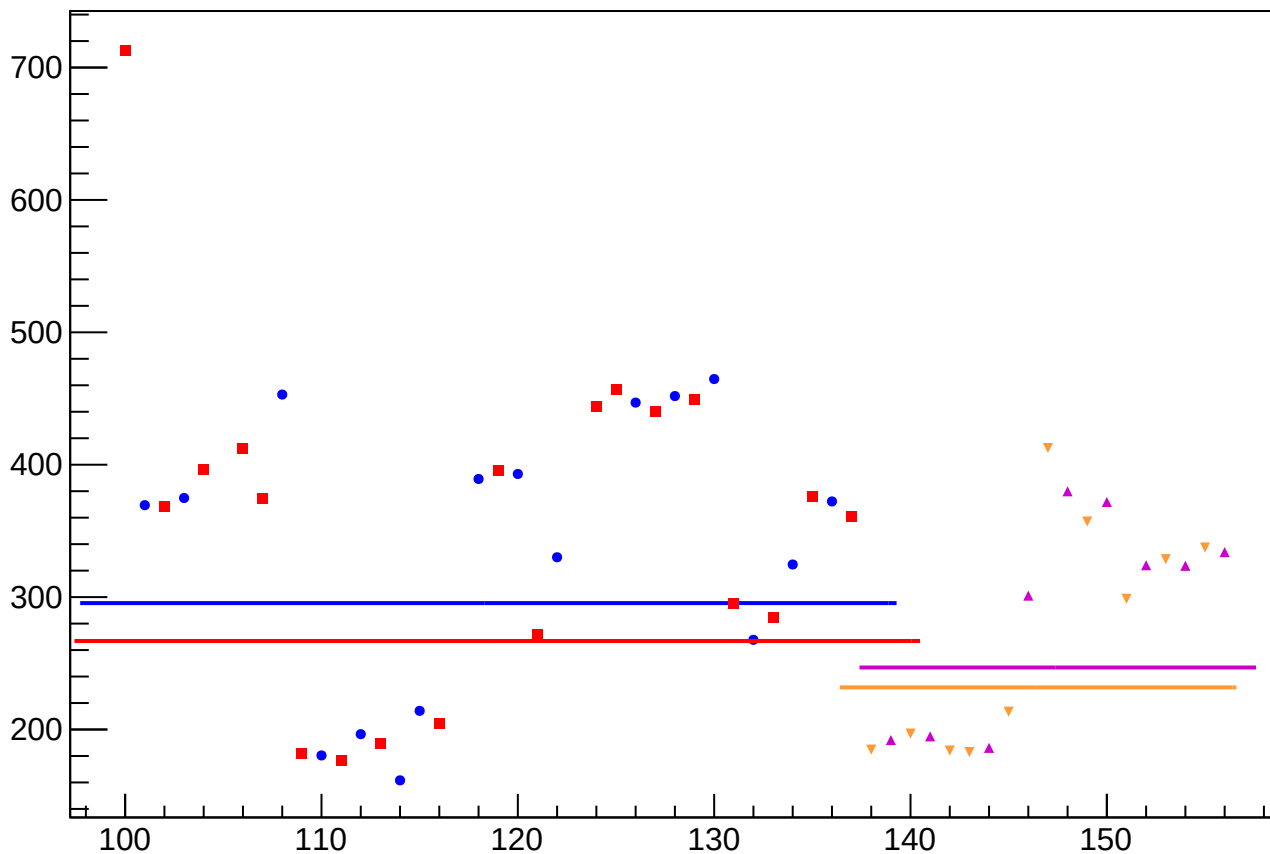
Right: 135777.958 $\pm$ 0.079 χ^2 /NDF: 191705440.0/3

In: 134612.782 $\pm$ 0.073 χ^2 /NDF: 579317311.6/24

Out: 134893.741 $\pm$ 0.068 χ^2 /NDF: 737708390.3/28

All: 134764.145 $\pm$ 0.050 χ^2 /NDF: 132494102

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.481+/-0.084 χ^2/NDF : 1442531.9/15

Left Out: 231.789+/-0.062 χ^2/NDF :1220746.1/9

Right Out: 266.864+/-0.075 χ^2/NDF : 1678073.6/18

Left In: 246.834+/-0.066 χ^2/NDF :1201367.3/8

Left: 238.872+/-0.045 χ^2/NDF : 2449601.6/18

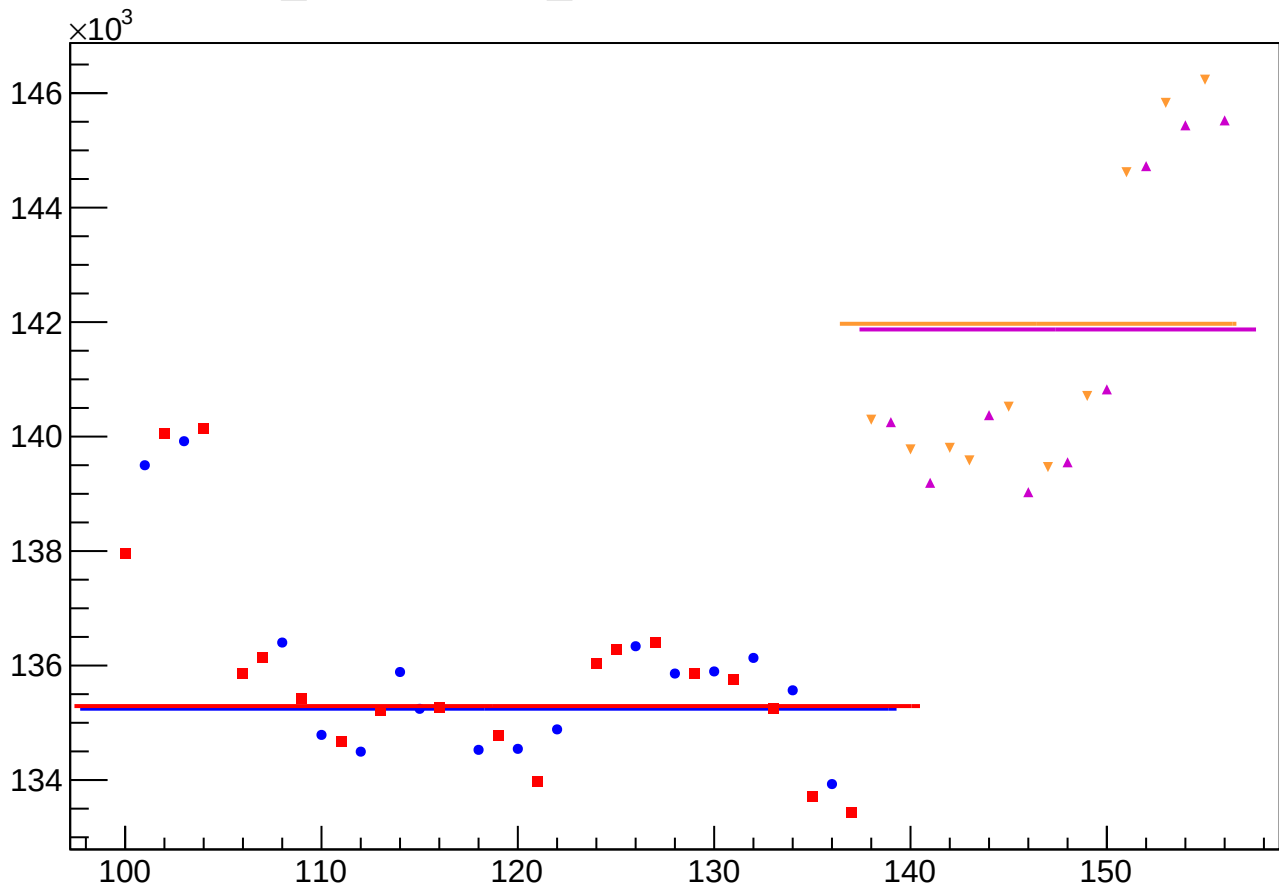
Right: 279.649+/-0.056 χ^2/NDF : 3185297.4/34

In: 265.493+/-0.052 χ^2/NDF :2852196.5/24

Out: 246.053+/-0.048 χ^2/NDF :3027884.8/28

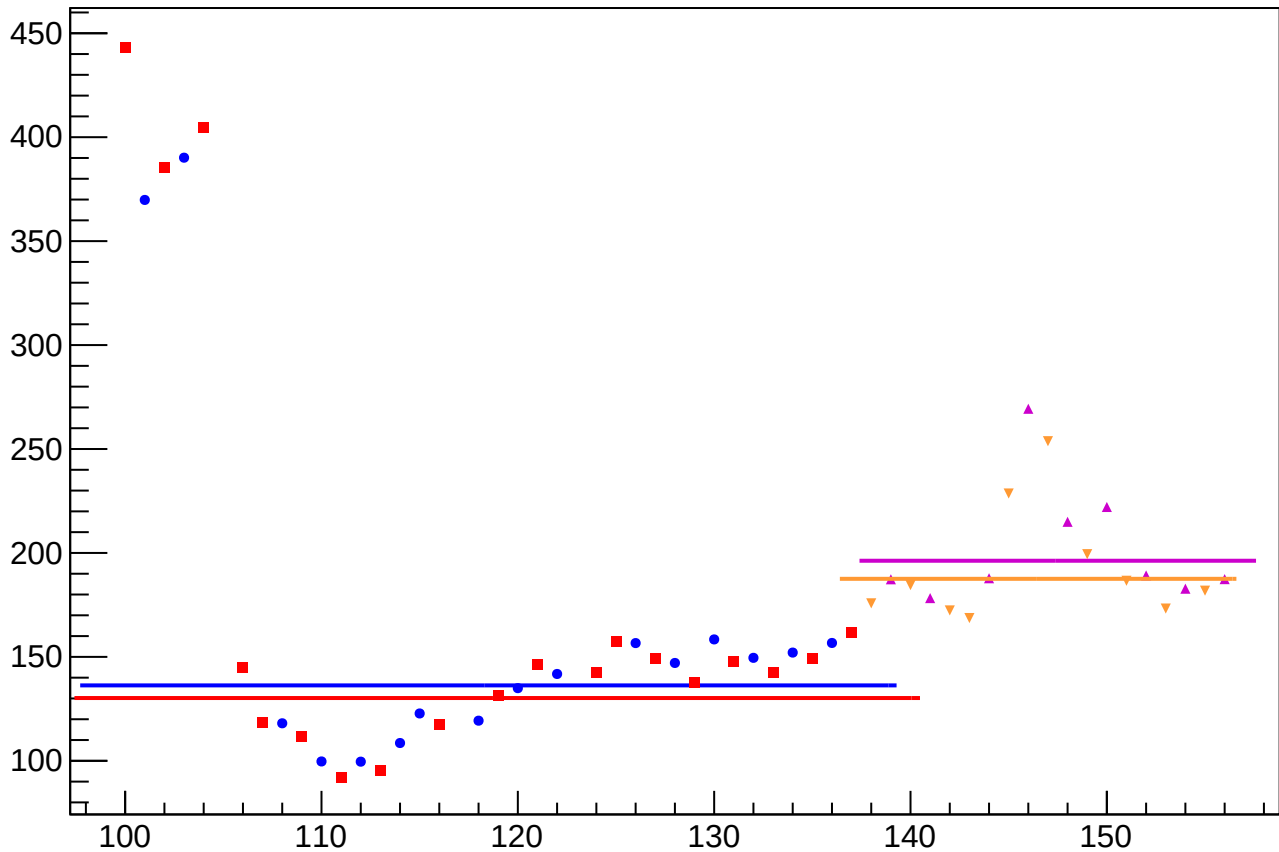
All: 255.020+/-0.035 χ^2/NDF : 5955865.7/53

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135246.269+/-0.055	χ^2/NDF : 388384719.1/15	Left: 141923.194+/-0.050	χ^2/NDF : 2893932707.9/1
Left Out: 141970.737+/-0.069	χ^2/NDF : 1550885540.3/9	Right: 135270.332+/-0.038	χ^2/NDF : 770541555.9/3
Right Out: 135291.851+/-0.052	χ^2/NDF : 381790556.0/18	In: 137685.333+/-0.043	χ^2/NDF : 7126666035.0/24
Left In: 141871.312+/-0.072	χ^2/NDF : 1342043436.3/8	Out: 137713.052+/-0.041	χ^2/NDF : 7970981473.9/2
		All: 137699.904+/-0.030	χ^2/NDF : 150978609

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 136.285 $\pm$ 0.039 χ^2 /NDF: 1384057.4/15

Left Out: 187.551 $\pm$ 0.049 χ^2 /NDF:208609.3/9

Right Out: 130.206 $\pm$ 0.037 χ^2 /NDF: 1520840.8/18

Left In: 196.249 $\pm$ 0.051 χ^2 /NDF:199696.2/8

Left: 191.710 $\pm$ 0.035 χ^2 /NDF: 423666.1/18

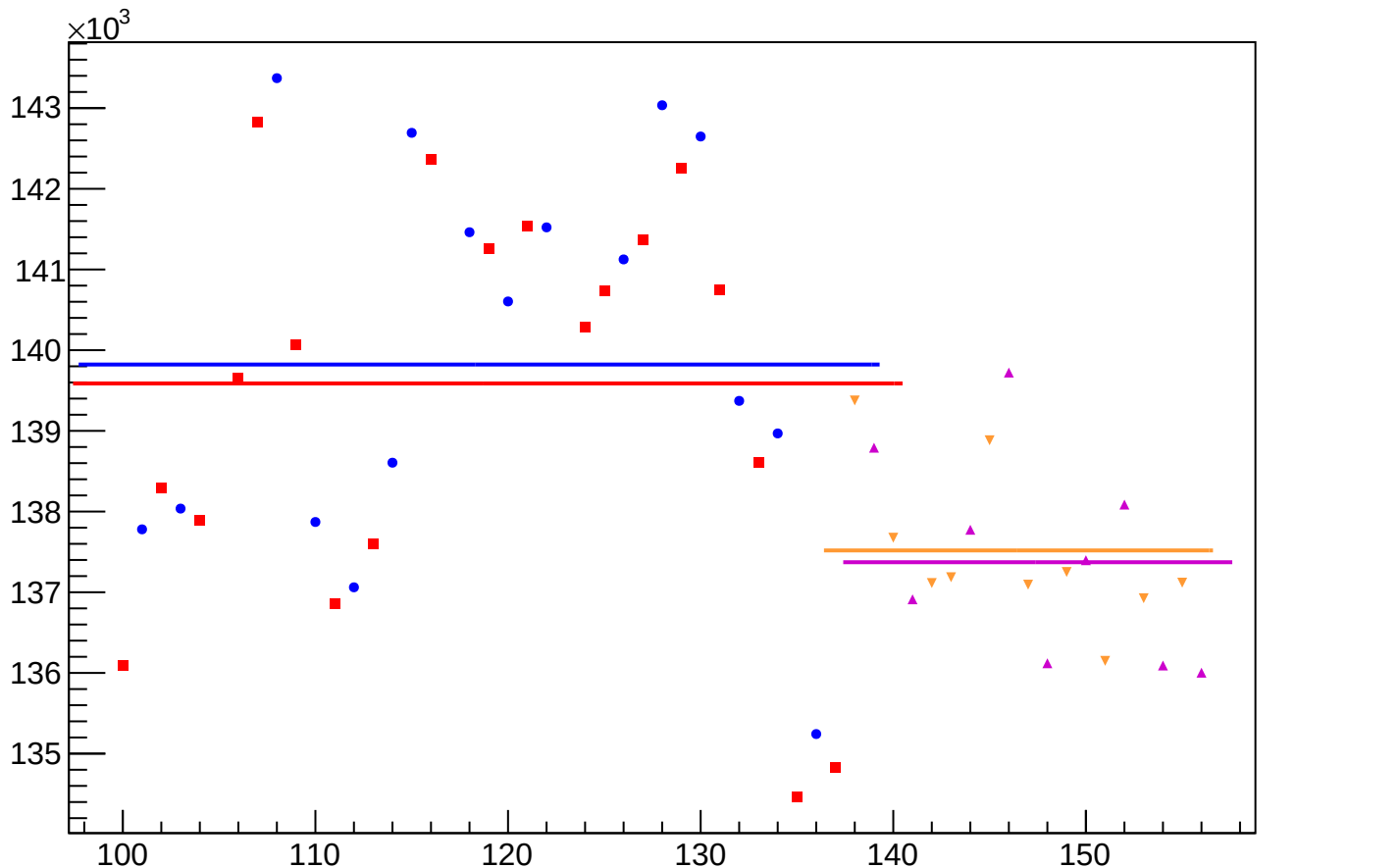
Right: 133.076 $\pm$ 0.027 χ^2 /NDF: 2917928.2/34

In: 158.361 $\pm$ 0.031 χ^2 /NDF:2467888.1/24

Out: 150.995 $\pm$ 0.029 χ^2 /NDF:2619752.5/28

All: 154.489 $\pm$ 0.021 χ^2 /NDF: 5117794.7/53

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139822.122 $\pm$ 0.063

χ^2/NDF : 1663381581.4/15

Left: 137447.185 $\pm$ 0.051

χ^2/NDF : 422521501.1/18

Right: 139699.515 $\pm$ 0.043

χ^2/NDF : 3153646641.6/9

Left Out: 137518.069 $\pm$ 0.070

χ^2/NDF : 178984909.3/9

Right Out: 139587.876 $\pm$ 0.060

χ^2/NDF : 1482934186.2/18

In: 138777.109 $\pm$ 0.047

χ^2/NDF : 2558379936.1/24

Out: 138722.602 $\pm$ 0.046

χ^2/NDF : 2163974098.7/24

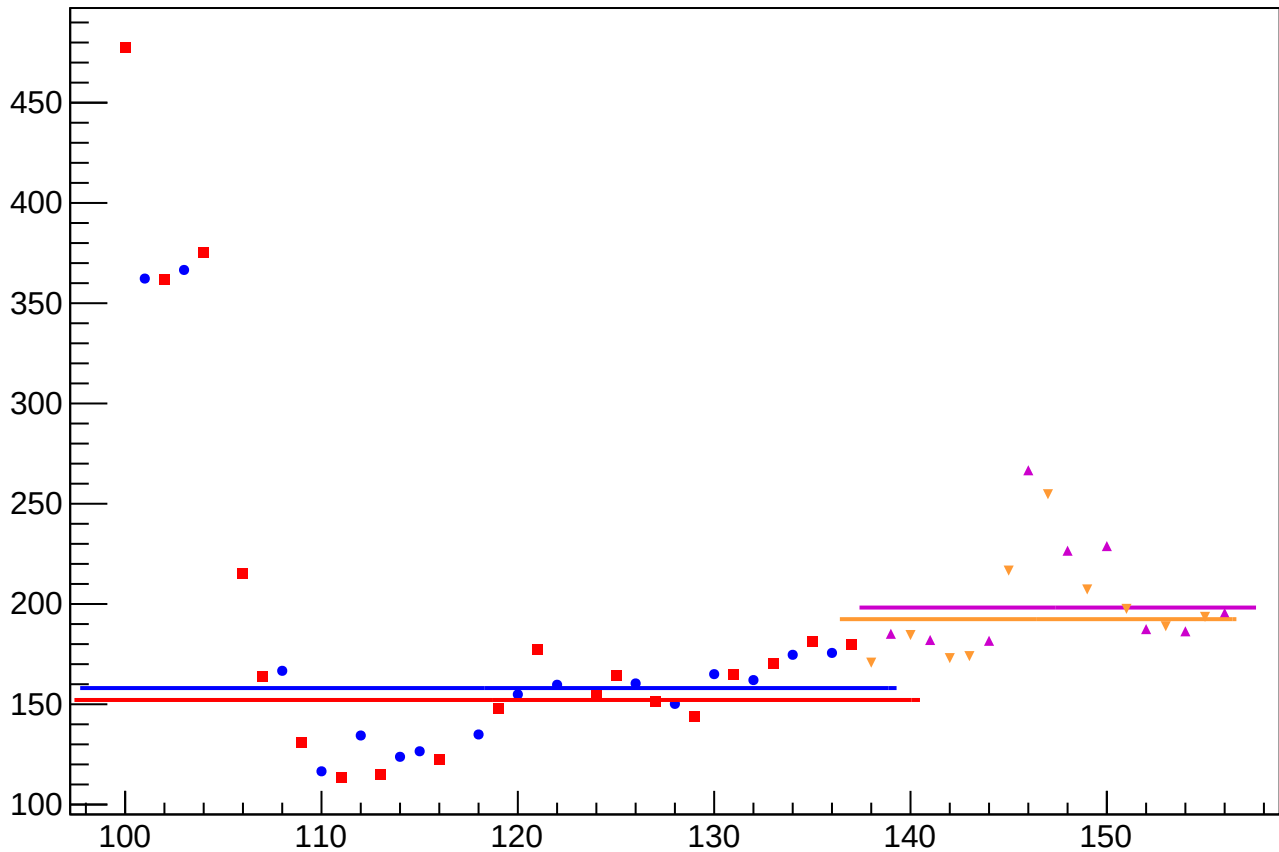
Left In: 137371.993 $\pm$ 0.073

χ^2/NDF : 241451468.4/8

All: 138748.779 $\pm$ 0.033

χ^2/NDF : 472304130.1/13

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 158.079 $\pm$ 0.044 χ^2 /NDF: 1017928.9/15

Left Out: 192.440 $\pm$ 0.050 χ^2 /NDF:181291.3/9

Right Out: 152.139 $\pm$ 0.042 χ^2 /NDF: 1229053.9/18

Left In: 198.227 $\pm$ 0.051 χ^2 /NDF:219263.1/8

Left: 195.248 $\pm$ 0.036 χ^2 /NDF: 407099.0/18

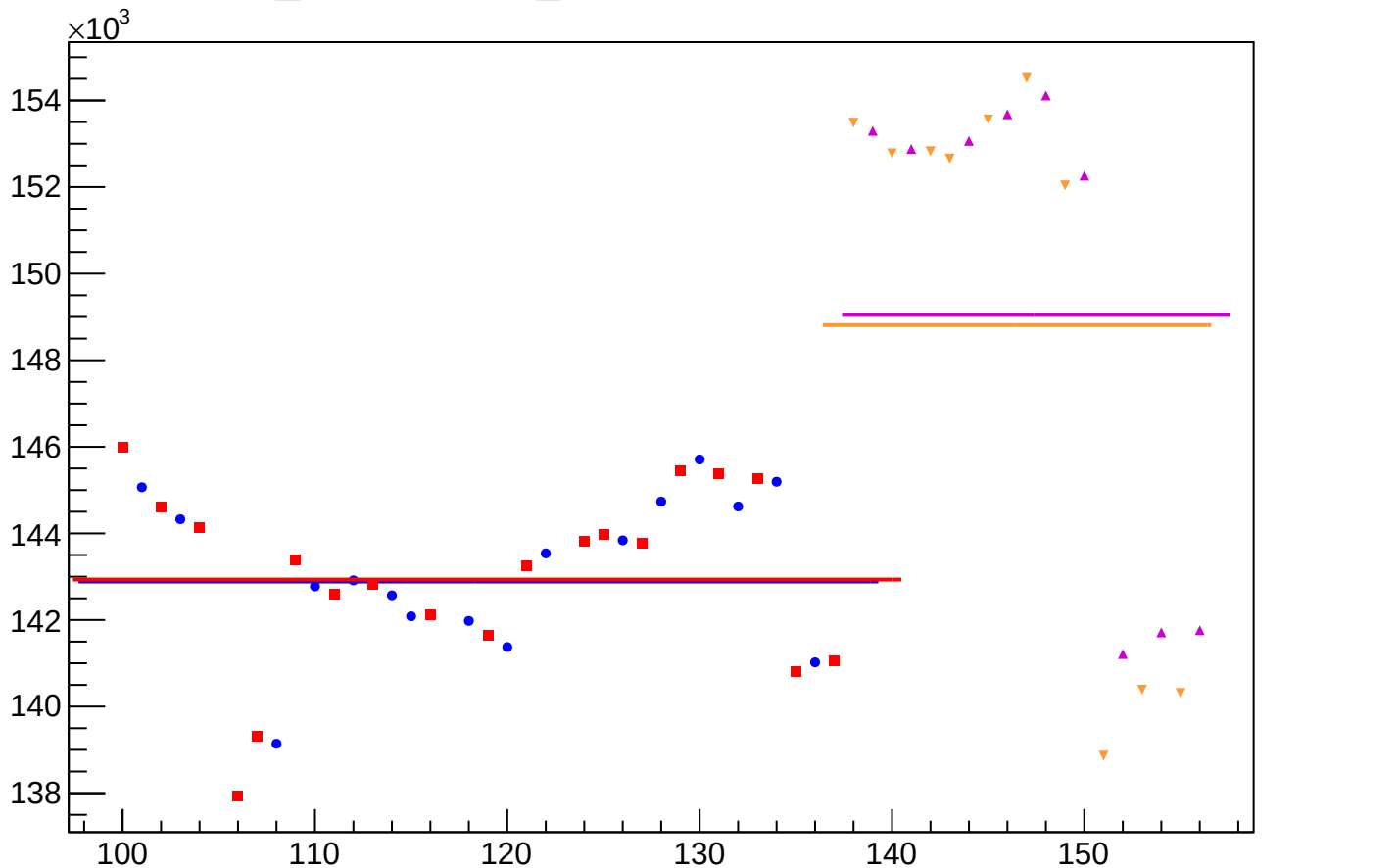
Right: 154.970 $\pm$ 0.031 χ^2 /NDF: 2256411.8/34

In: 175.203 $\pm$ 0.034 χ^2 /NDF:1588142.8/24

Out: 168.987 $\pm$ 0.032 χ^2 /NDF:1791020.9/28

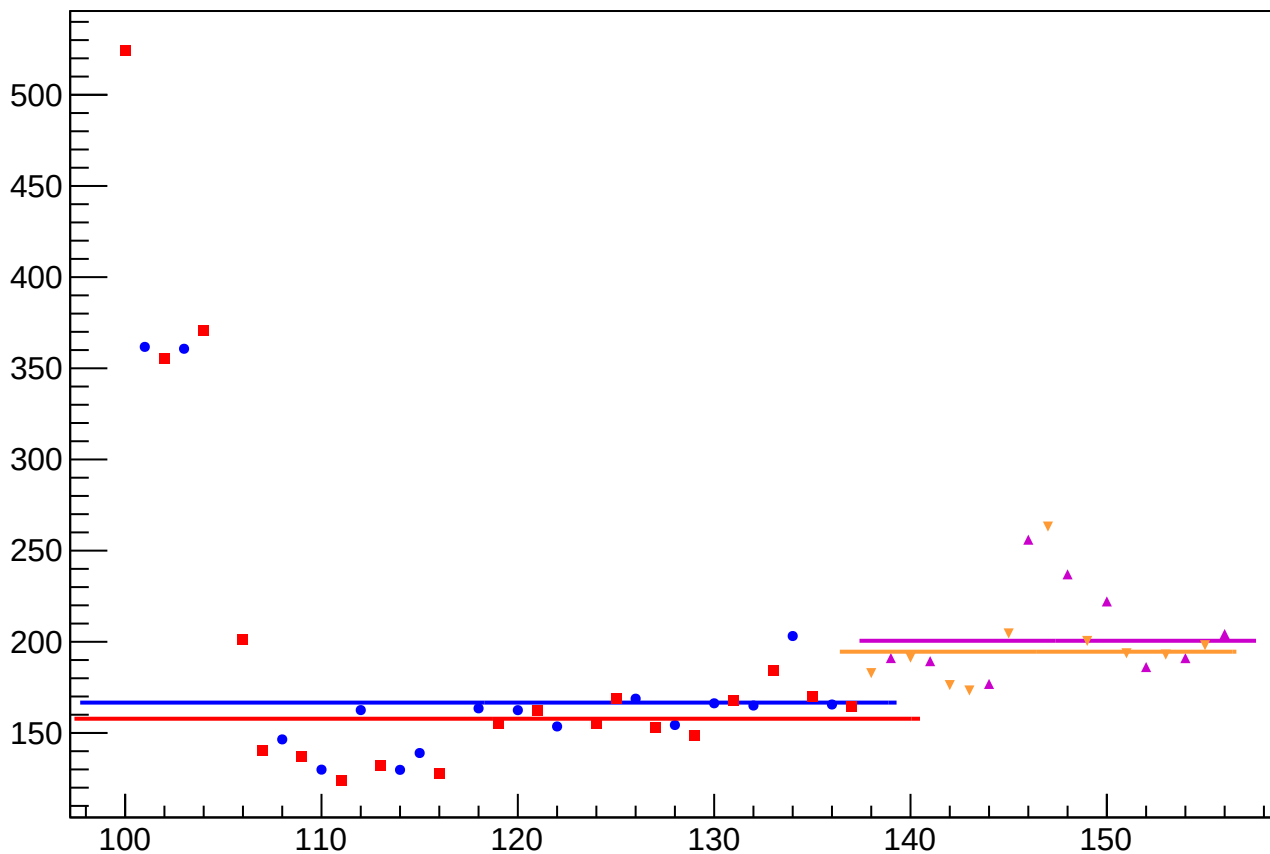
All: 171.972 $\pm$ 0.023 χ^2 /NDF: 3397041.5/53

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142889.386 $\pm$ 0.066	χ^2 /NDF: 763303771.6/15	Left: 148925.358 $\pm$ 0.051	χ^2 /NDF: 13366877244.5/15
Left Out: 148811.219 $\pm$ 0.071	χ^2 /NDF: 7585002467.4/9	Right: 142913.088 $\pm$ 0.045	χ^2 /NDF: 1550935114.7/9
Right Out: 142933.890 $\pm$ 0.062	χ^2 /NDF: 787386856.4/18	In: 145636.035 $\pm$ 0.049	χ^2 /NDF: 10459592108.6/20
Left In: 149046.587 $\pm$ 0.073	χ^2 /NDF: 5776548700.4/8	Out: 145454.178 $\pm$ 0.047	χ^2 /NDF: 12284046743.6/8
		All: 145540.575 $\pm$ 0.034	χ^2 /NDF: 227509029.4/15

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 166.656 $\pm$ 0.046 χ^2 /NDF: 863574.7/15

Left Out: 194.575 $\pm$ 0.050 χ^2 /NDF:156274.6/9

Right Out: 157.809 $\pm$ 0.044 χ^2 /NDF: 1022332.1/18

Left In: 200.561 $\pm$ 0.052 χ^2 /NDF:192828.3/8

Left: 197.478 $\pm$ 0.036 χ^2 /NDF: 355992.1/18

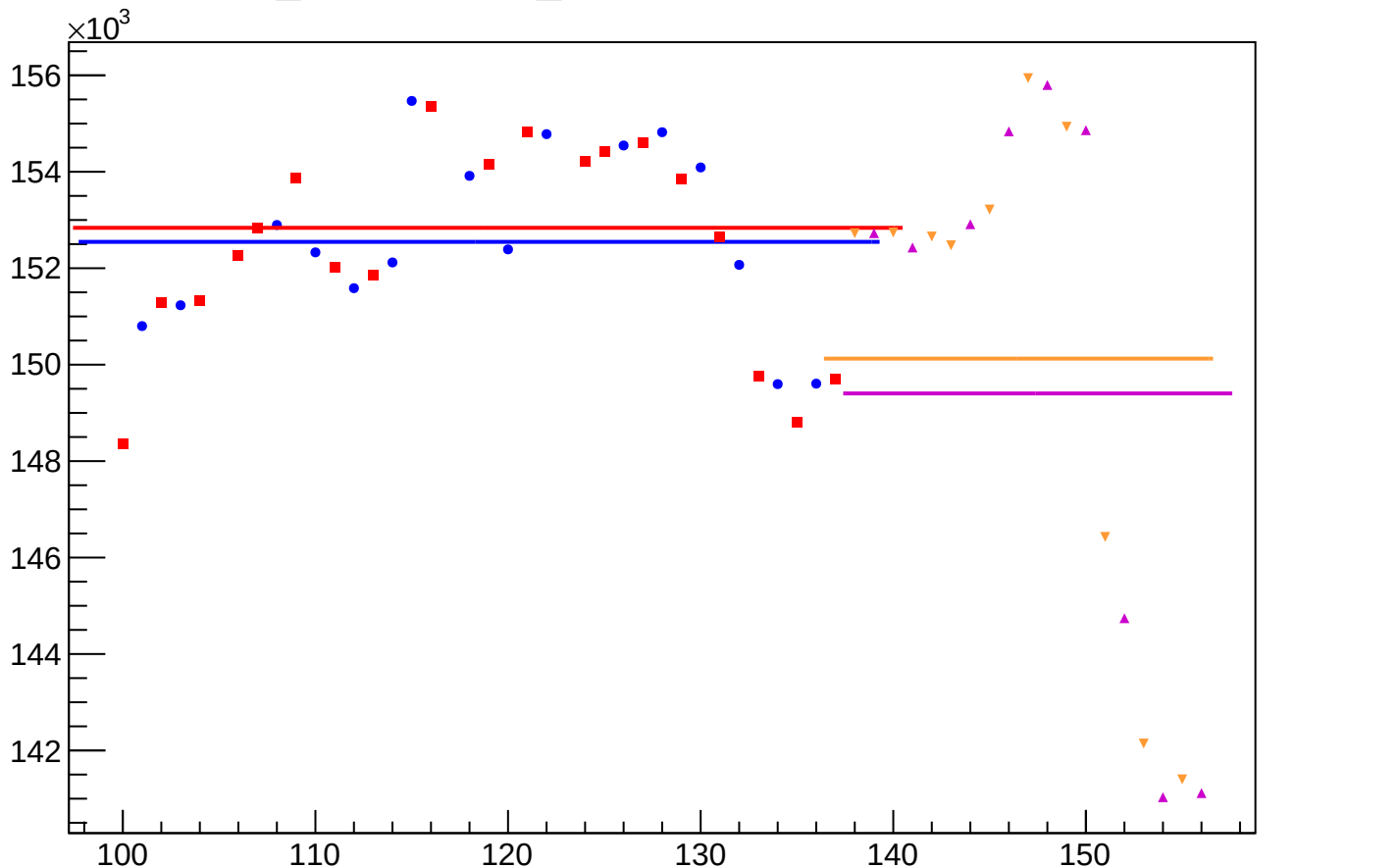
Right: 161.945 $\pm$ 0.032 χ^2 /NDF: 1905231.4/34

In: 181.781 $\pm$ 0.035 χ^2 /NDF:1294103.0/24

Out: 173.575 $\pm$ 0.033 χ^2 /NDF:1484749.6/28

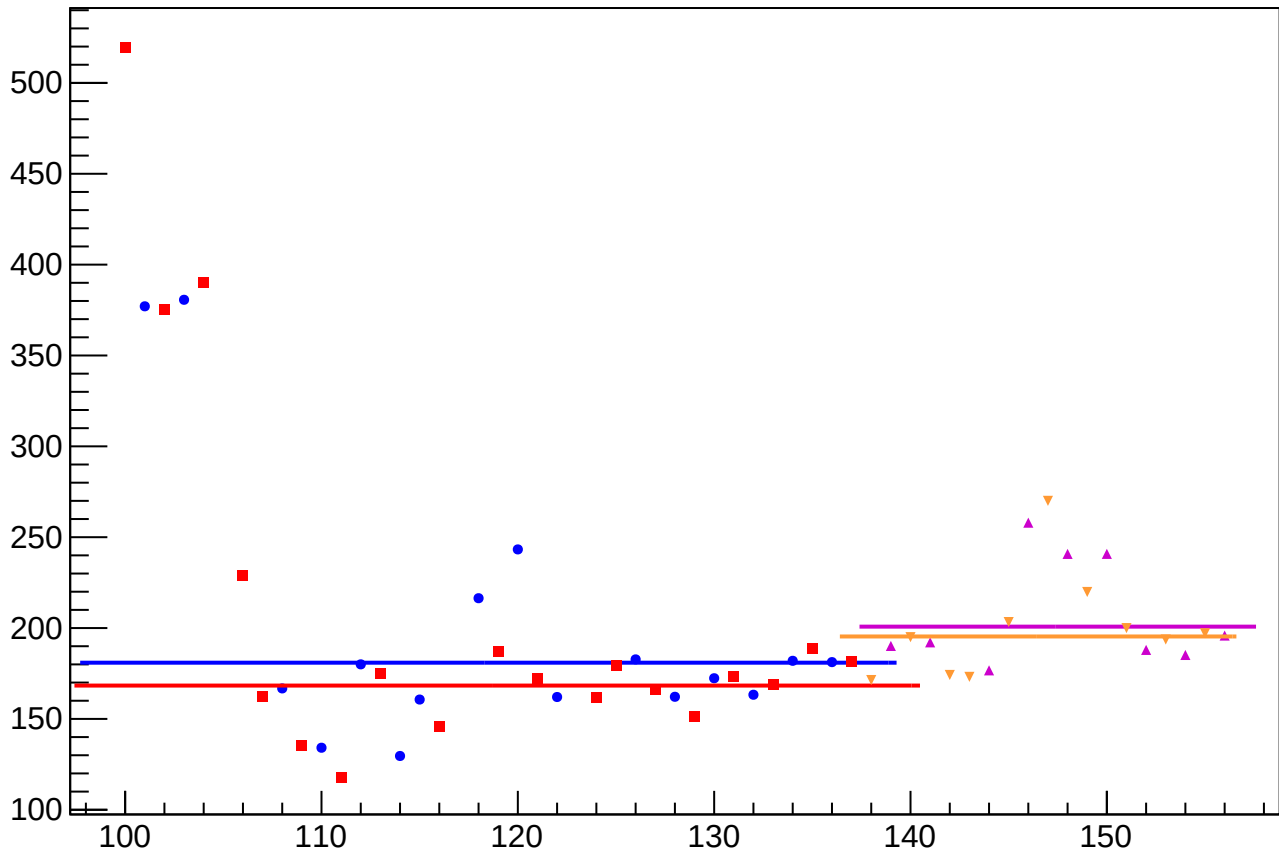
All: 177.473 $\pm$ 0.024 χ^2 /NDF: 2808432.8/53

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2/NDF : 654540559.6/15	Left: 149774.257 $\pm$ 0.051	χ^2/NDF : 10689457575.3/15
Left Out: 150125.550 $\pm$ 0.071	χ^2/NDF : 4712205437.7/9	Right: 152704.814 $\pm$ 0.049	χ^2/NDF : 1400162101.0/9
Right Out: 152837.888 $\pm$ 0.067	χ^2/NDF : 736907066.8/18	In: 150986.984 $\pm$ 0.052	χ^2/NDF : 7511711997.2/24
Left In: 149403.378 $\pm$ 0.073	χ^2/NDF : 5927217524.8/8	Out: 151571.071 $\pm$ 0.049	χ^2/NDF : 6222375605.6/24
		All: 151295.778 $\pm$ 0.035	χ^2/NDF : 1380198605.6/100

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938 ± 0.051 $\chi^2/\text{NDF}: 907758.2/15$

Left Out: 195.366 ± 0.050 $\chi^2/\text{NDF}: 217396.7/9$

Right Out: 168.349 ± 0.047 $\chi^2/\text{NDF}: 1089090.2/18$

Left In: 200.780 ± 0.052 $\chi^2/\text{NDF}: 242345.4/8$

Left: 197.999 ± 0.036 $\chi^2/\text{NDF}: 465365.3/18$

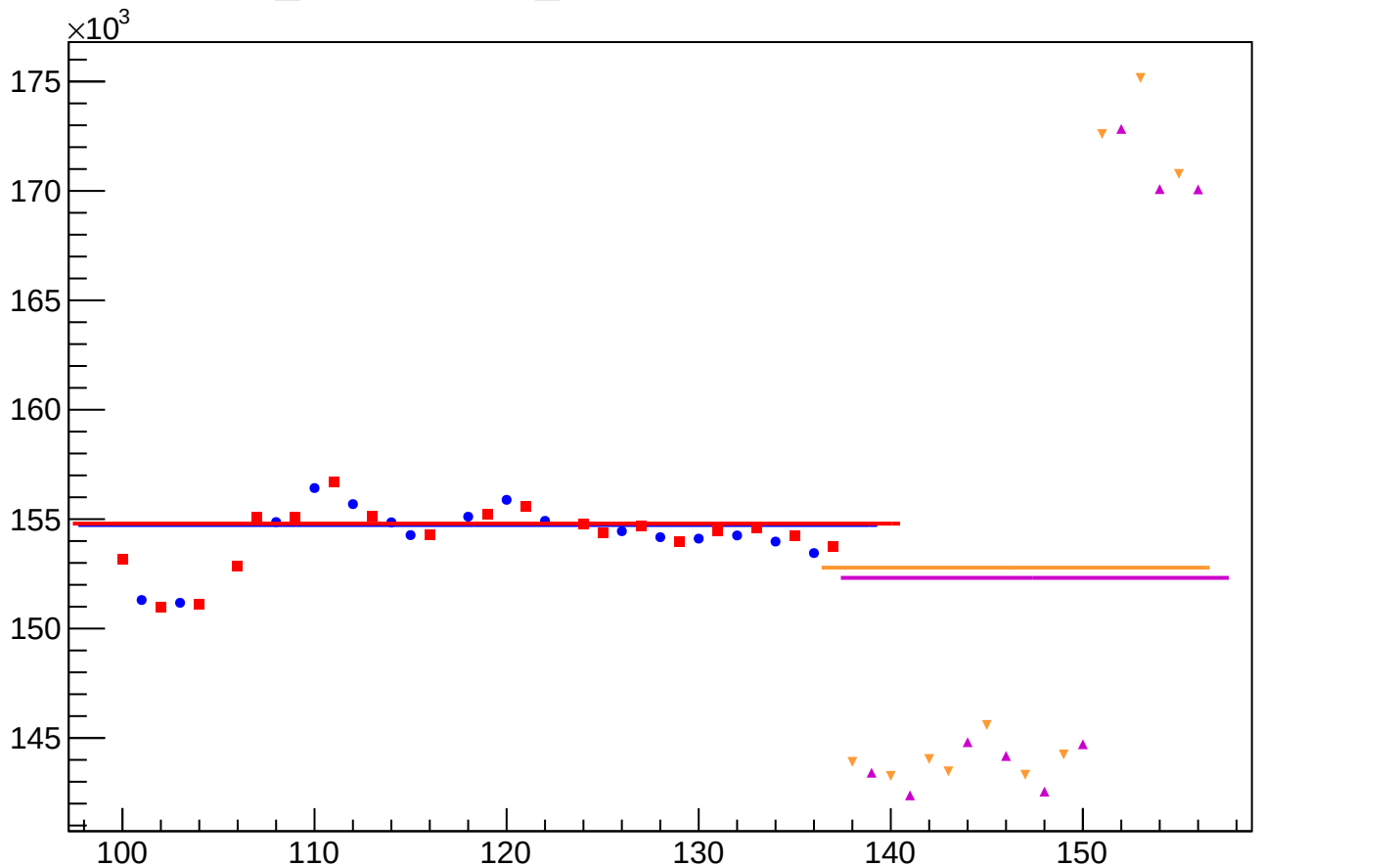
Right: 174.106 ± 0.035 $\chi^2/\text{NDF}: 2029471.3/34$

In: 190.784 ± 0.036 $\chi^2/\text{NDF}: 1224199.5/24$

Out: 180.968 ± 0.034 $\chi^2/\text{NDF}: 1459928.6/28$

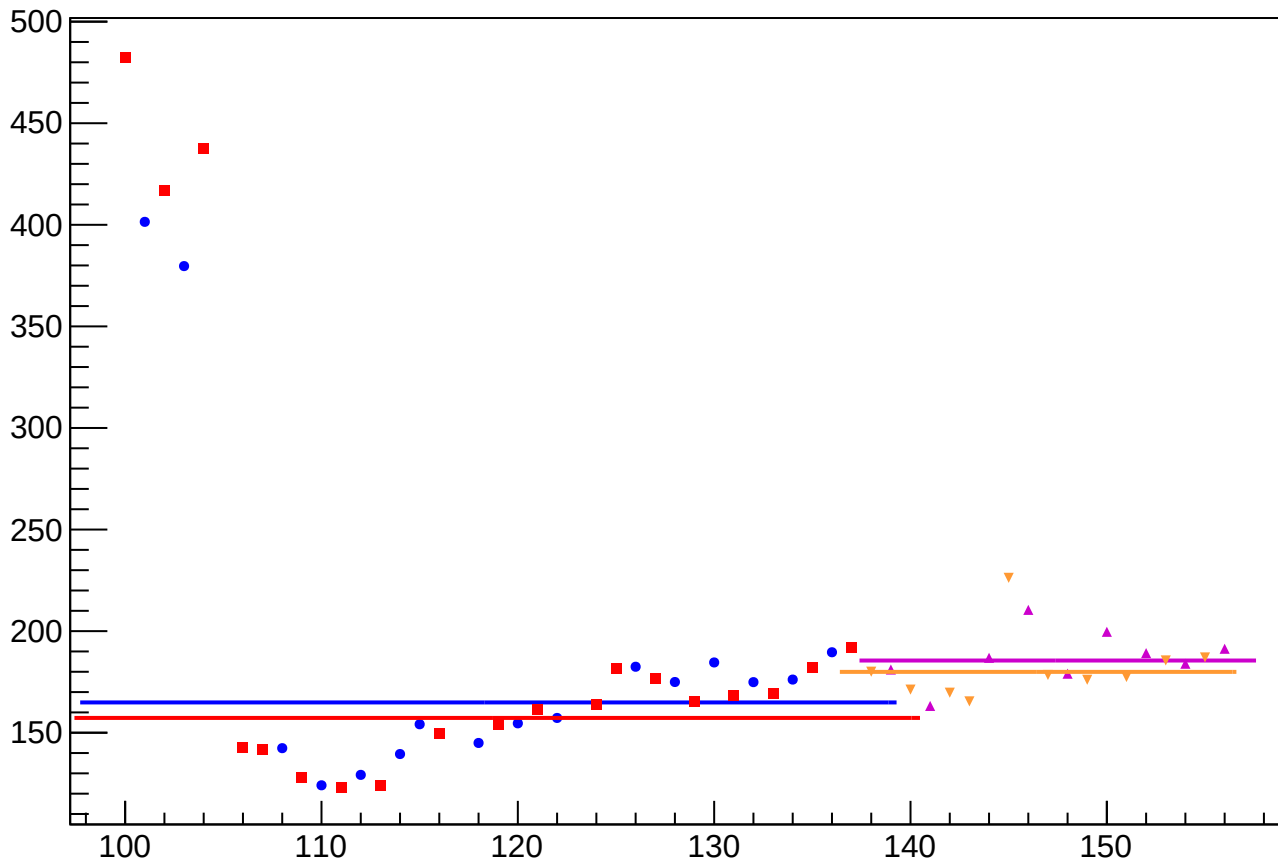
All: 185.594 ± 0.025 $\chi^2/\text{NDF}: 2722486.9/53$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154733.155 $\pm$ 0.065	χ^2 /NDF: 274462319.1/15	Left: 152558.007 $\pm$ 0.047	χ^2 /NDF: 79340877947.0
Left Out: 152784.740 $\pm$ 0.065	χ^2 /NDF: 42616932100.1/9	Right: 154766.574 $\pm$ 0.045	χ^2 /NDF: 579080682.1/3
Right Out: 154795.893 $\pm$ 0.061	χ^2 /NDF: 304125082.4/18	In: 153558.368 $\pm$ 0.047	χ^2 /NDF: 37640989575.5/2
Left In: 152317.929 $\pm$ 0.067	χ^2 /NDF: 36698974325.7/8	Out: 153854.628 $\pm$ 0.045	χ^2 /NDF: 43428716732.6
		All: 153713.582 $\pm$ 0.032	χ^2 /NDF: 810907710

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 164.906 +/- 0.046 χ^2/NDF : 1072730.7/15

Left Out: 179.948 +/- 0.046 χ^2/NDF : 92133.5/9

Right Out: 157.283 +/- 0.043 χ^2/NDF : 1254831.2/18

Left In: 185.537 +/- 0.047 χ^2/NDF : 71734.5/8

Left: 182.663 +/- 0.033 χ^2/NDF : 171028.7/18

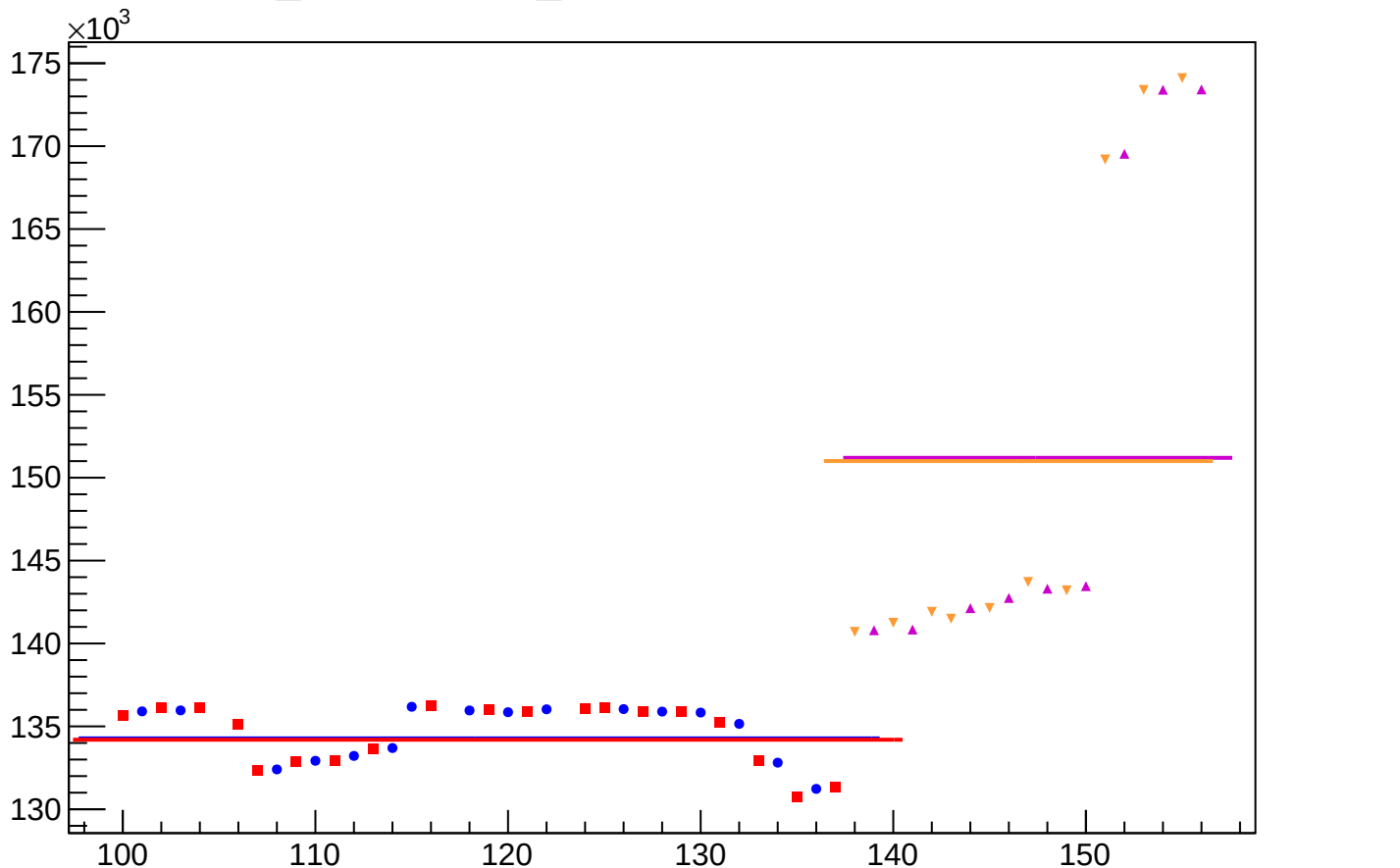
Right: 160.846 +/- 0.032 χ^2/NDF : 2342128.6/34

In: 174.942 +/- 0.033 χ^2/NDF : 1241883.5/24

Out: 167.891 +/- 0.031 χ^2/NDF : 1475913.3/28

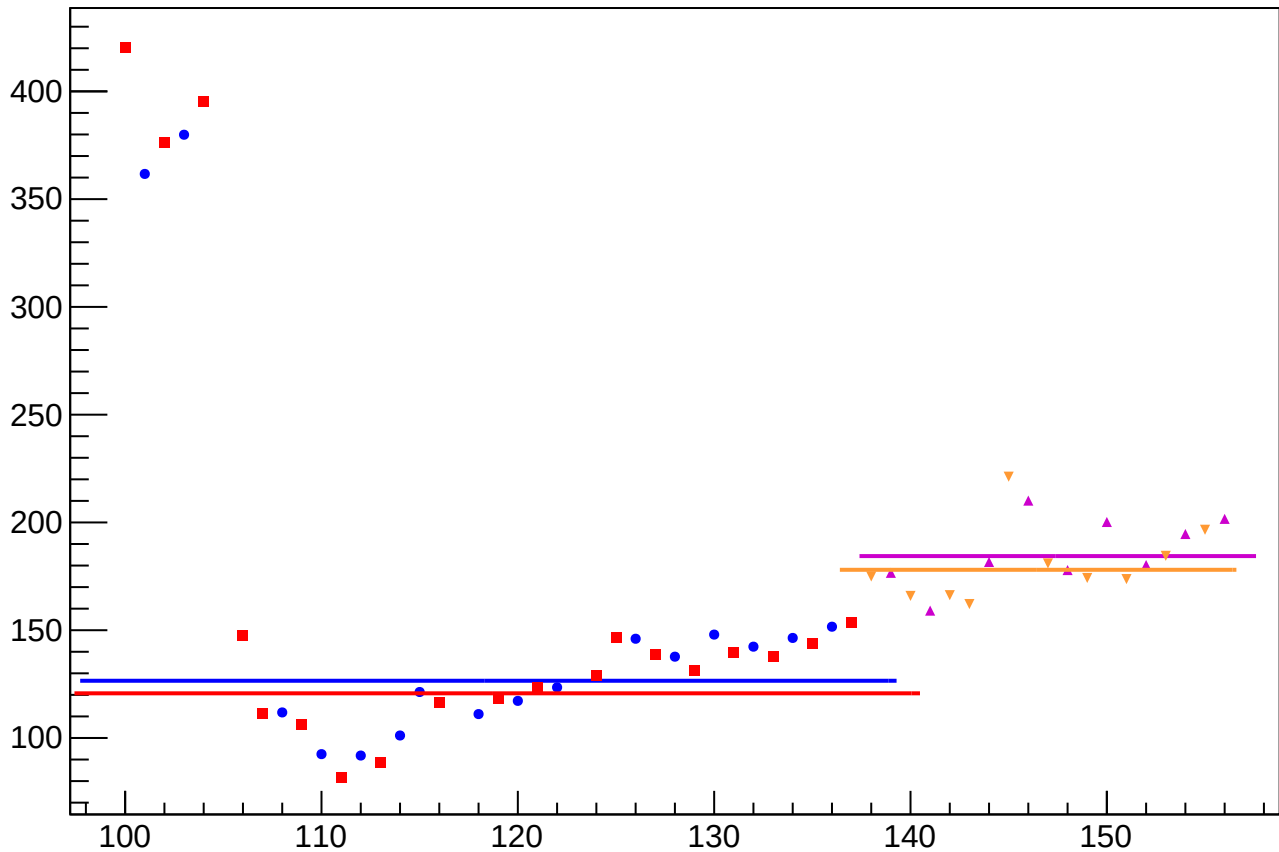
All: 171.247 +/- 0.023 χ^2/NDF : 2741659.8/53

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134276.096 $\pm$ 0.051 χ^2 /NDF: 1142867100.2/15
 Left Out: 151005.372 $\pm$ 0.065 χ^2 /NDF: 45750028787.6/9
 Right Out: 134195.257 $\pm$ 0.048 χ^2 /NDF: 1205537499.7/18
 Left In: 151199.392 $\pm$ 0.067 χ^2 /NDF: 42884806978.9/8
 Left: 151099.081 $\pm$ 0.046 χ^2 /NDF: 88639205188.3
 Right: 134233.345 $\pm$ 0.035 χ^2 /NDF: 2349742421.8
 In: 140488.105 $\pm$ 0.040 χ^2 /NDF: 84724137684.7/2
 Out: 140181.843 $\pm$ 0.038 χ^2 /NDF: 90680945354.8
 All: 140327.452 $\pm$ 0.028 χ^2 /NDF: 175435176

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 126.551 $\pm$ 0.036 χ^2 /NDF: 1477429.4/15

Left Out: 178.031 $\pm$ 0.046 χ^2 /NDF:108303.6/9

Right Out: 120.723 $\pm$ 0.034 χ^2 /NDF: 1632726.2/18

Left In: 184.392 $\pm$ 0.047 χ^2 /NDF:104524.0/8

Left: 181.104 $\pm$ 0.033 χ^2 /NDF: 222221.7/18

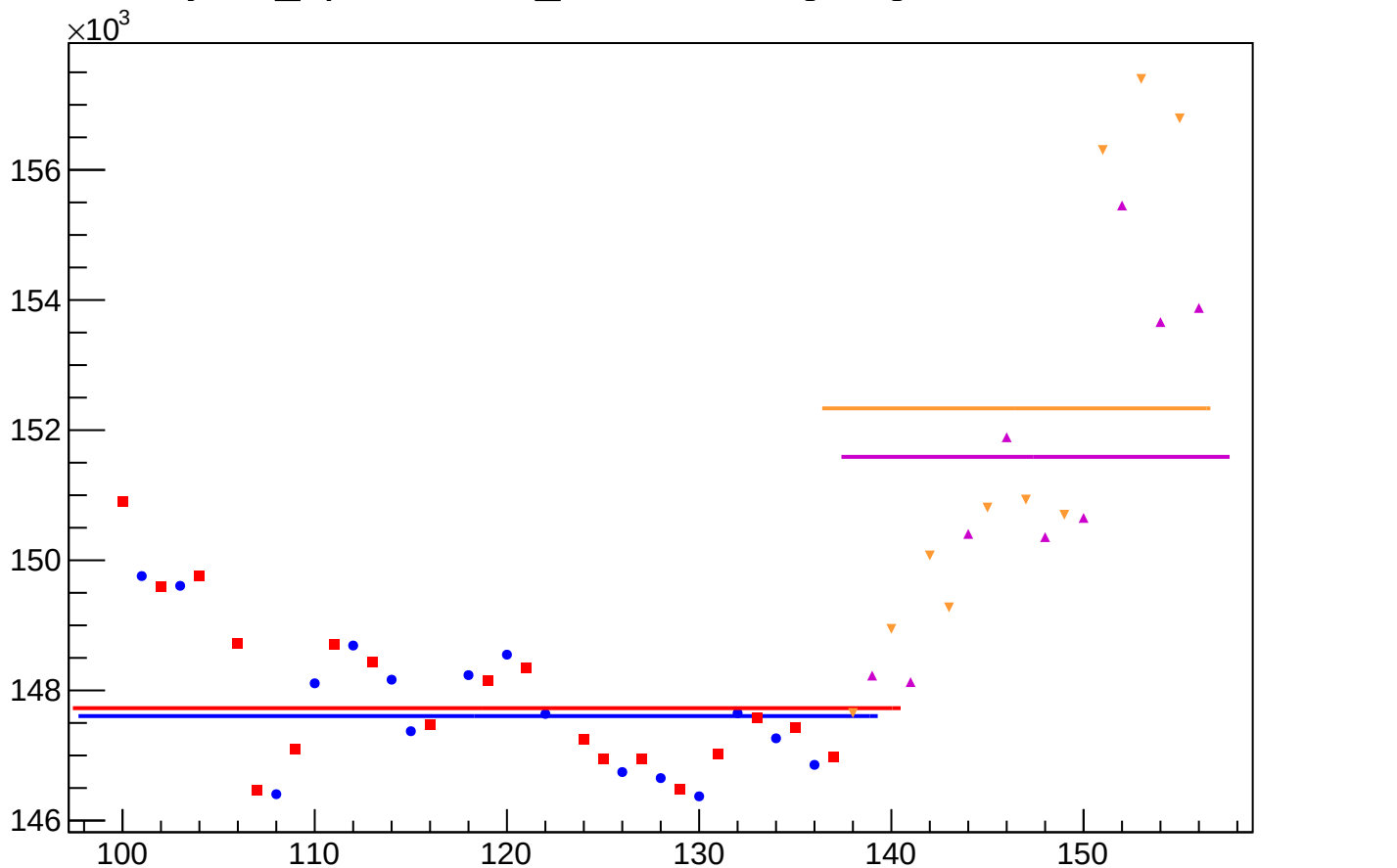
Right: 123.469 $\pm$ 0.025 χ^2 /NDF: 3124061.5/34

In: 147.783 $\pm$ 0.029 χ^2 /NDF:2532768.7/24

Out: 141.132 $\pm$ 0.027 χ^2 /NDF:2757402.9/28

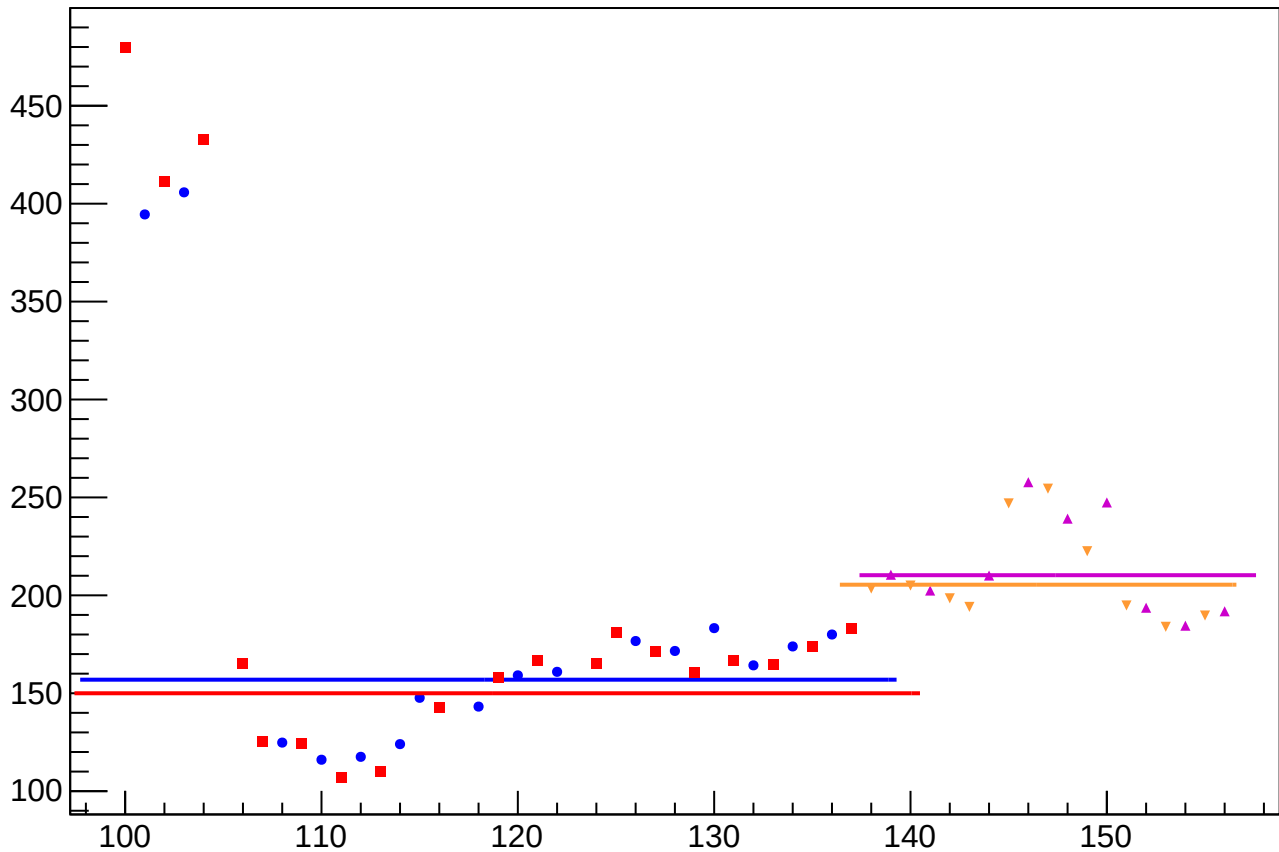
All: 144.294 $\pm$ 0.020 χ^2 /NDF: 5318551.9/53

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147605.604 $\pm$ 0.062	χ^2 /NDF: 200513366.5/15	Left: 151971.009 $\pm$ 0.053	χ^2 /NDF: 3514959389.1/1
Left Out: 152335.101 $\pm$ 0.075	χ^2 /NDF: 2375992316.1/9	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: 149205.396 $\pm$ 0.048	χ^2 /NDF: 2923606124.2/24
Left In: 151589.637 $\pm$ 0.076	χ^2 /NDF: 1090091982.1/8	Out: 149500.409 $\pm$ 0.046	χ^2 /NDF: 4922701175.1/2
		All: 149359.466 $\pm$ 0.033	χ^2 /NDF: 786576692

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 156.927 $\pm$ 0.044 χ^2 /NDF: 1265768.6/15

Left Out: 205.431 $\pm$ 0.053 χ^2 /NDF:160855.0/9

Right Out: 149.994 $\pm$ 0.042 χ^2 /NDF: 1453928.8/18

Left In: 210.285 $\pm$ 0.054 χ^2 /NDF:187287.7/8

Left: 207.802 $\pm$ 0.038 χ^2 /NDF: 352285.9/18

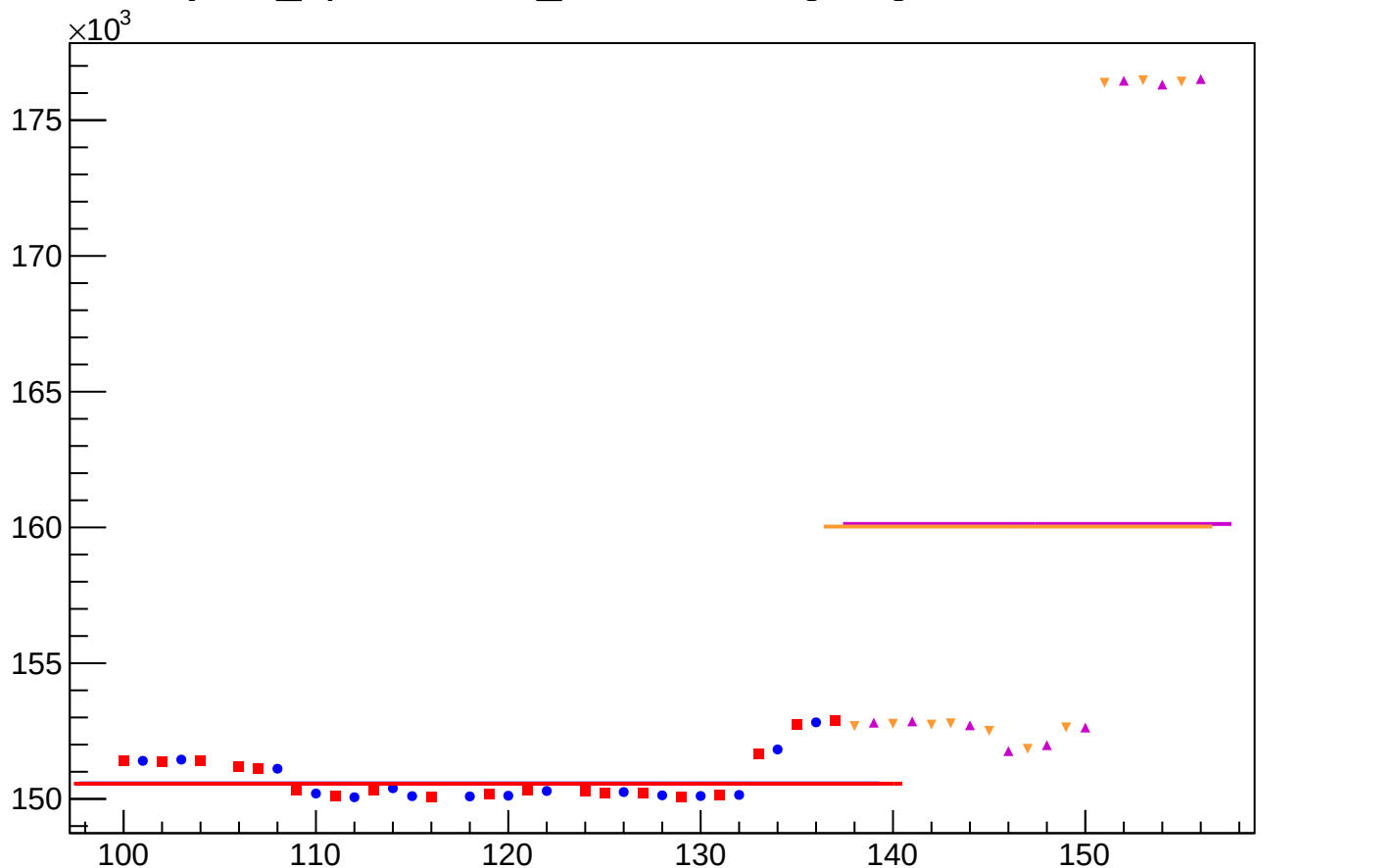
Right: 153.258 $\pm$ 0.030 χ^2 /NDF: 2732730.8/34

In: 178.353 $\pm$ 0.034 χ^2 /NDF:2038874.6/24

Out: 171.324 $\pm$ 0.033 χ^2 /NDF:2295747.4/28

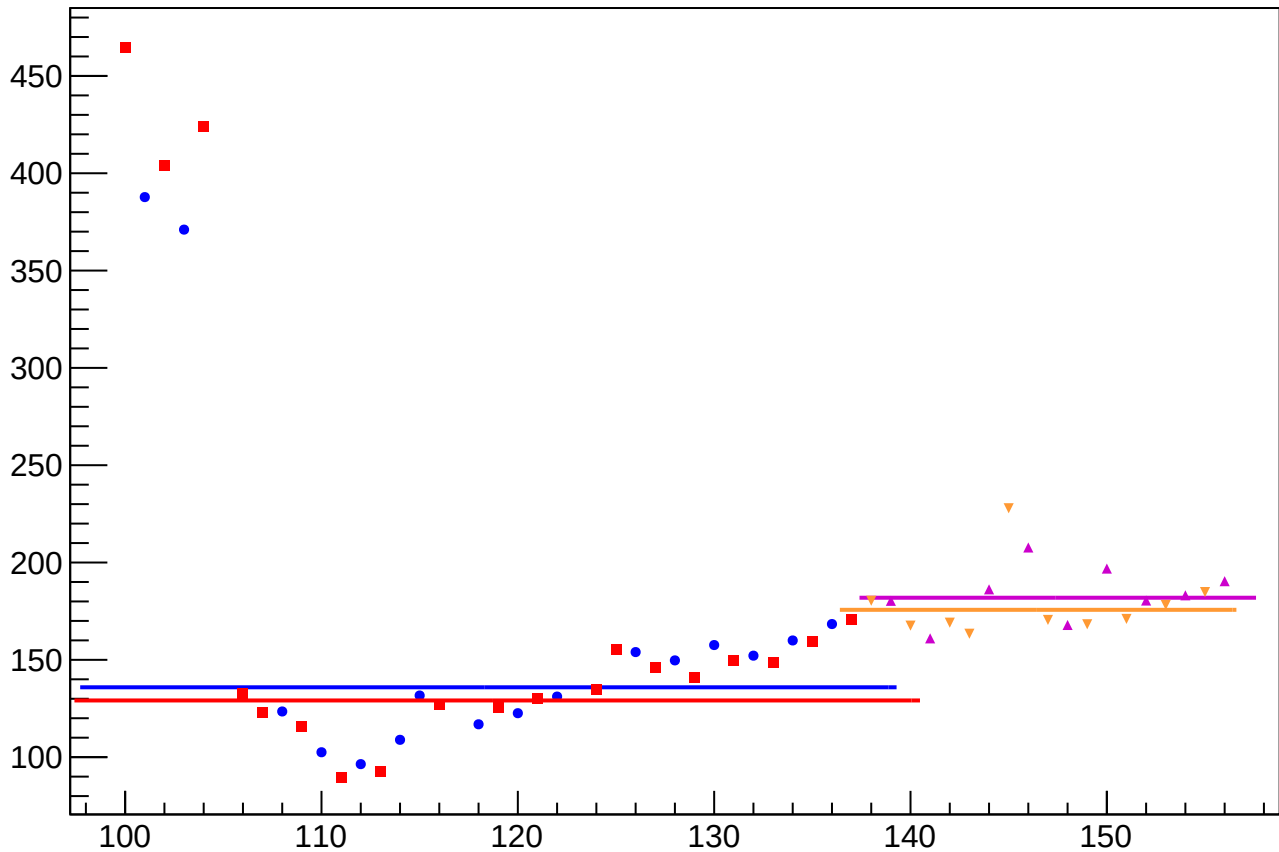
All: 174.682 $\pm$ 0.024 χ^2 /NDF: 4356712.2/53

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055	χ^2/NDF : 237155171.8/15	Left: 160077.913 $\pm$ 0.046	χ^2/NDF : 59176502499.7
Left Out: 160031.129 $\pm$ 0.064	χ^2/NDF : 30337287476.6/9	Right: 150564.903 $\pm$ 0.037	χ^2/NDF : 434664709.4/3
Right Out: 150561.647 $\pm$ 0.051	χ^2/NDF : 197500782.5/18	In: 154472.272 $\pm$ 0.042	χ^2/NDF : 41587676879.8/2
Left In: 160127.944 $\pm$ 0.066	χ^2/NDF : 28838093995.0/8	Out: 154268.589 $\pm$ 0.040	χ^2/NDF : 44040299110.5
		All: 154364.867 $\pm$ 0.029	χ^2/NDF : 85640374

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 $\pm$ 0.039 χ^2 /NDF: 1416332.3/15

Left Out: 175.699 $\pm$ 0.045 χ^2 /NDF:109857.3/9

Right Out: 129.130 $\pm$ 0.036 χ^2 /NDF: 1614311.0/18

Left In: 181.910 $\pm$ 0.046 χ^2 /NDF:82504.0/8

Left: 178.700 $\pm$ 0.032 χ^2 /NDF: 201590.9/18

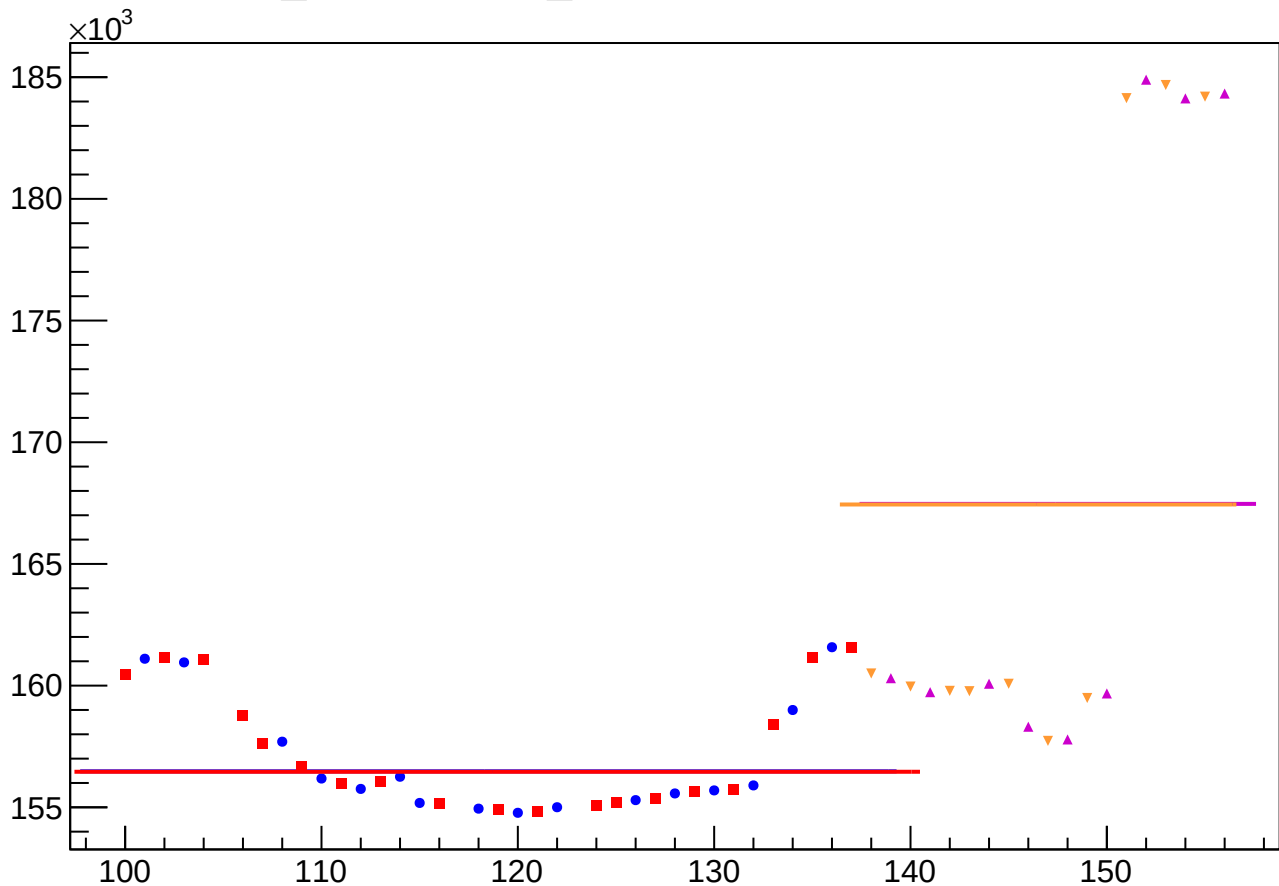
Right: 132.281 $\pm$ 0.026 χ^2 /NDF: 3047045.4/34

In: 154.686 $\pm$ 0.030 χ^2 /NDF:2078668.7/24

Out: 147.360 $\pm$ 0.028 χ^2 /NDF:2377397.0/28

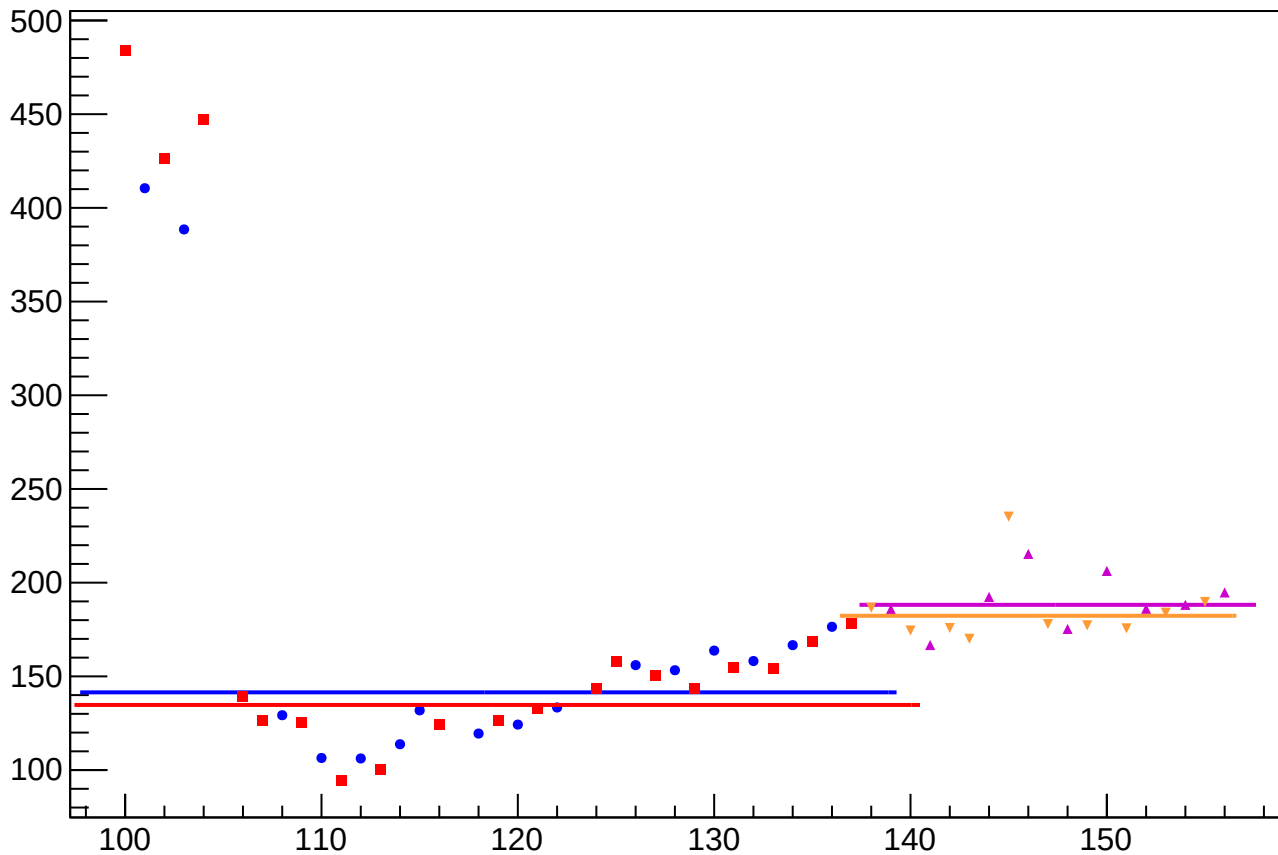
All: 150.823 $\pm$ 0.020 χ^2 /NDF: 4488147.6/53

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 156478.318 $\pm$ 0.057	χ^2 /NDF: 1289449253.3/15	Left: 167454.303 $\pm$ 0.047	χ^2 /NDF: 60802822284.4
Left Out: 167442.363 $\pm$ 0.066	χ^2 /NDF: 30785915356.5/9	Right: 156468.838 $\pm$ 0.039	χ^2 /NDF: 2390033091.6
Right Out: 156460.550 $\pm$ 0.053	χ^2 /NDF: 1100531658.8/18	In: 160996.064 $\pm$ 0.044	χ^2 /NDF: 46686279607.5/2
Left In: 167467.003 $\pm$ 0.068	χ^2 /NDF: 30016839240.9/8	Out: 160784.022 $\pm$ 0.041	χ^2 /NDF: 48708817690.3/
		All: 160884.479 $\pm$ 0.030	χ^2 /NDF: 954075453

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 141.470+/-0.040 χ^2/NDF : 1391933.2/15

Left Out: 182.326+/-0.047 χ^2/NDF :102521.2/9

Right Out: 134.746+/-0.038 χ^2/NDF : 1579031.5/18

Left In: 188.169+/-0.048 χ^2/NDF :82475.7/8

Left: 185.158+/-0.033 χ^2/NDF : 192607.3/18

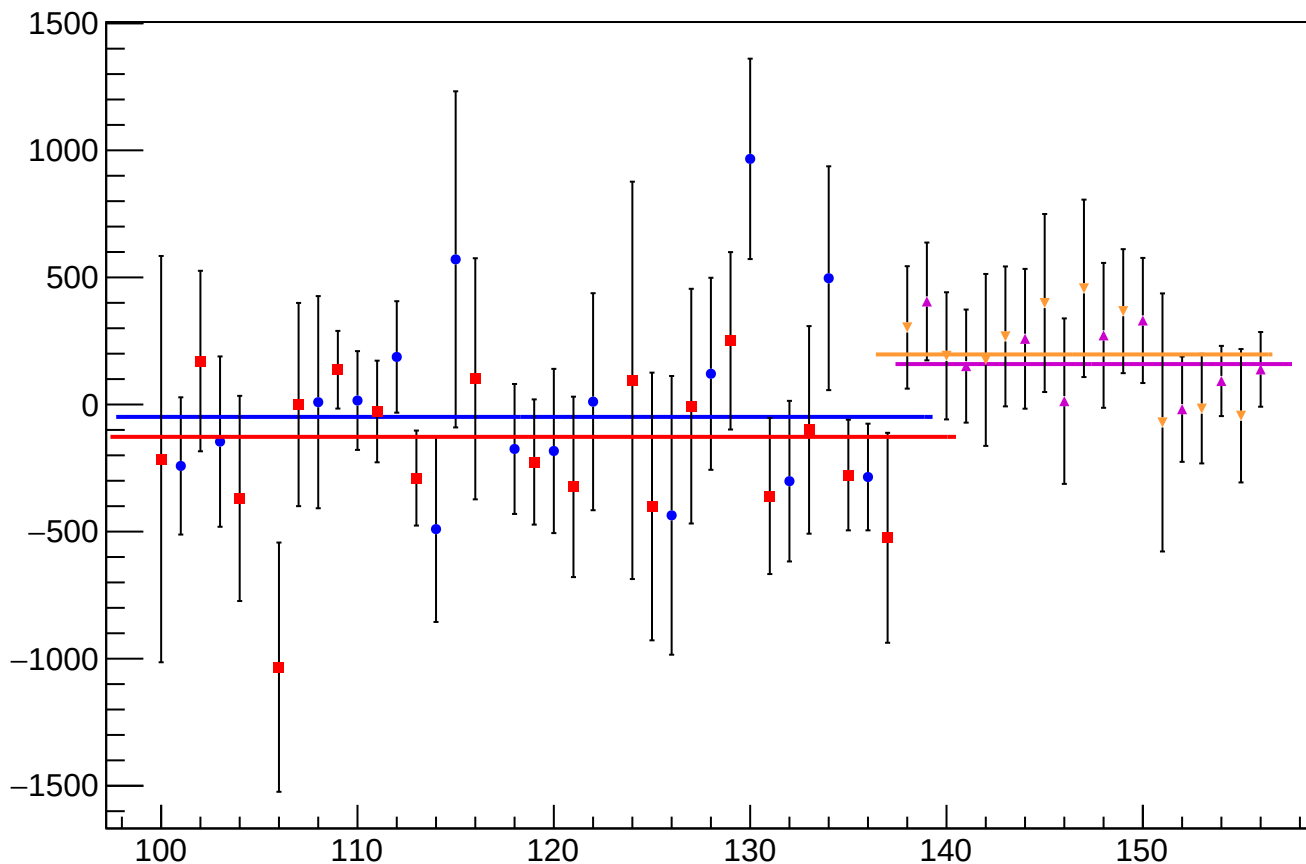
Right: 137.883+/-0.027 χ^2/NDF : 2985912.1/34

In: 160.669+/-0.031 χ^2/NDF :2029935.9/24

Out: 153.478+/-0.029 χ^2/NDF :2313139.2/28

All: 156.885+/-0.021 χ^2/NDF : 4371709.6/53

asym_bcm_target_mean vs Slug, Sign Corrected



Right In: -48.749 ± 76.592 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 197.044 ± 88.299 $\chi^2/\text{NDF}: 3.7/9$

Right Out: -127.249 ± 68.506 $\chi^2/\text{NDF}: 12.9/18$

Left In: 159.076 ± 68.623 $\chi^2/\text{NDF}: 3.1/8$

Left: 173.373 ± 54.184 $\chi^2/\text{NDF}: 7.0/18$

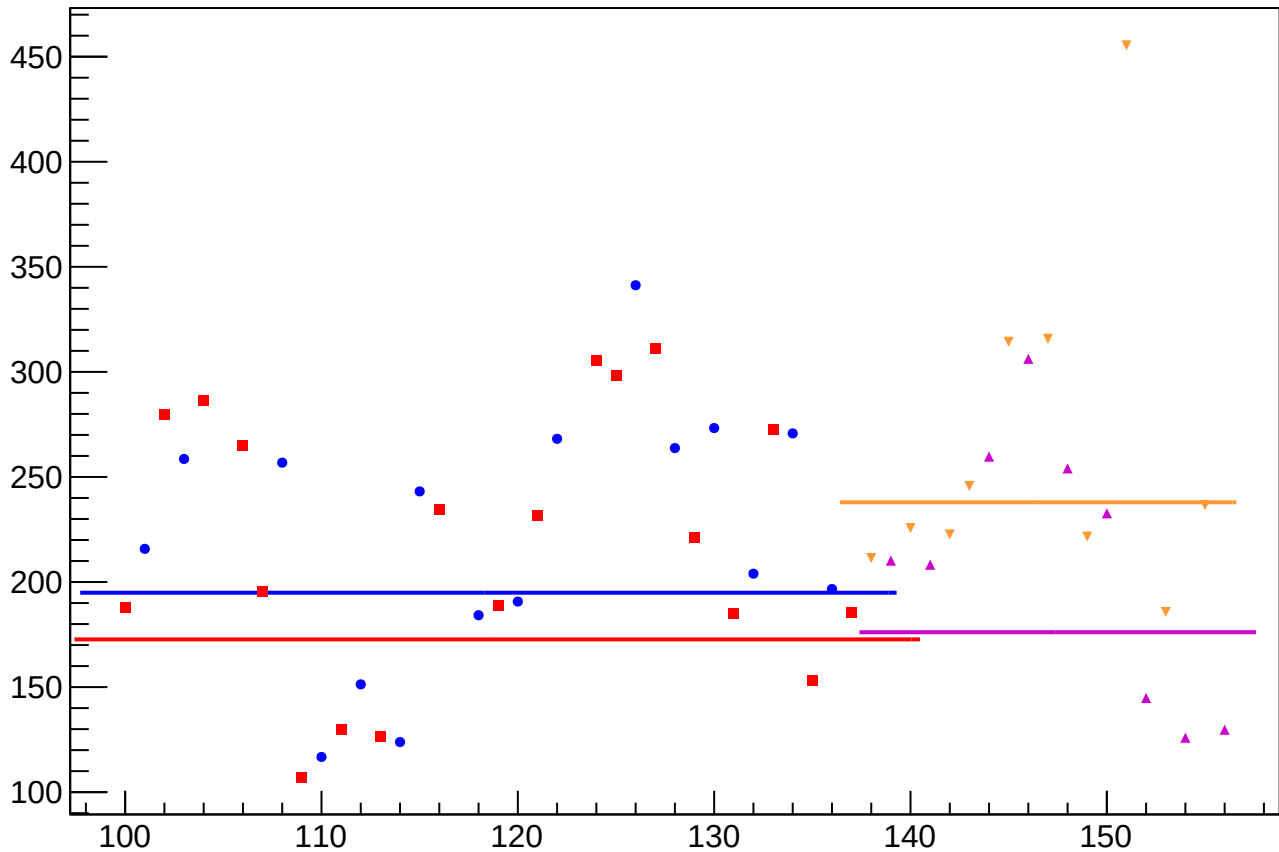
Right: -92.360 ± 51.061 $\chi^2/\text{NDF}: 28.9/34$

In: 66.534 ± 51.110 $\chi^2/\text{NDF}: 22.6/24$

Out: -5.394 ± 54.126 $\chi^2/\text{NDF}: 25.0/28$

All: 32.630 ± 37.161 $\chi^2/\text{NDF}: 48.6/53$

asym_bcm_target_rms vs Slug, Sign Corrected



Right In: 194.923 ± 0.054 $\chi^2/\text{NDF}: 1028901.2/15$

Left Out: 237.956 ± 0.062 $\chi^2/\text{NDF}: 722389.4/9$

Right Out: 172.704 ± 0.048 $\chi^2/\text{NDF}: 1631350.4/18$

Left In: 176.113 ± 0.049 $\chi^2/\text{NDF}: 1353819.0/8$

Left: 199.401 ± 0.038 $\chi^2/\text{NDF}: 2687850.8/18$

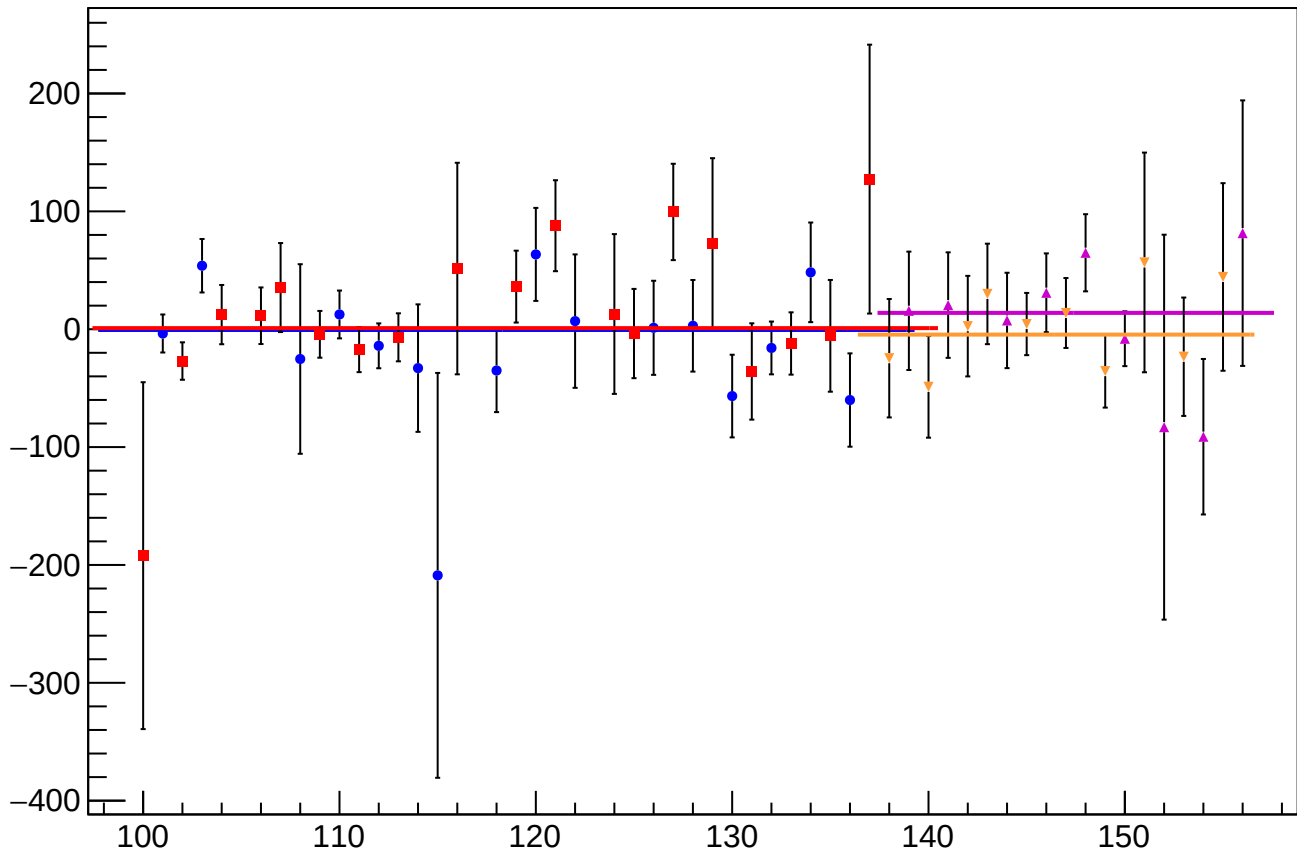
Right: 182.579 ± 0.036 $\chi^2/\text{NDF}: 2753755.7/34$

In: 184.489 ± 0.036 $\chi^2/\text{NDF}: 2449628.5/24$

Out: 197.223 ± 0.038 $\chi^2/\text{NDF}: 3035555.2/28$

All: 190.491 ± 0.026 $\chi^2/\text{NDF}: 5543703.0/53$

asym_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: -0.624 ± 7.340 χ^2/NDF : 18.9/15

Left Out: -4.573 ± 12.583 χ^2/NDF : 4.3/9

Right Out: 0.938 ± 6.767 χ^2/NDF : 23.1/18

Left In: 13.858 ± 13.446 χ^2/NDF : 6.9/8

Left: 4.032 ± 9.187 χ^2/NDF : 12.2/18

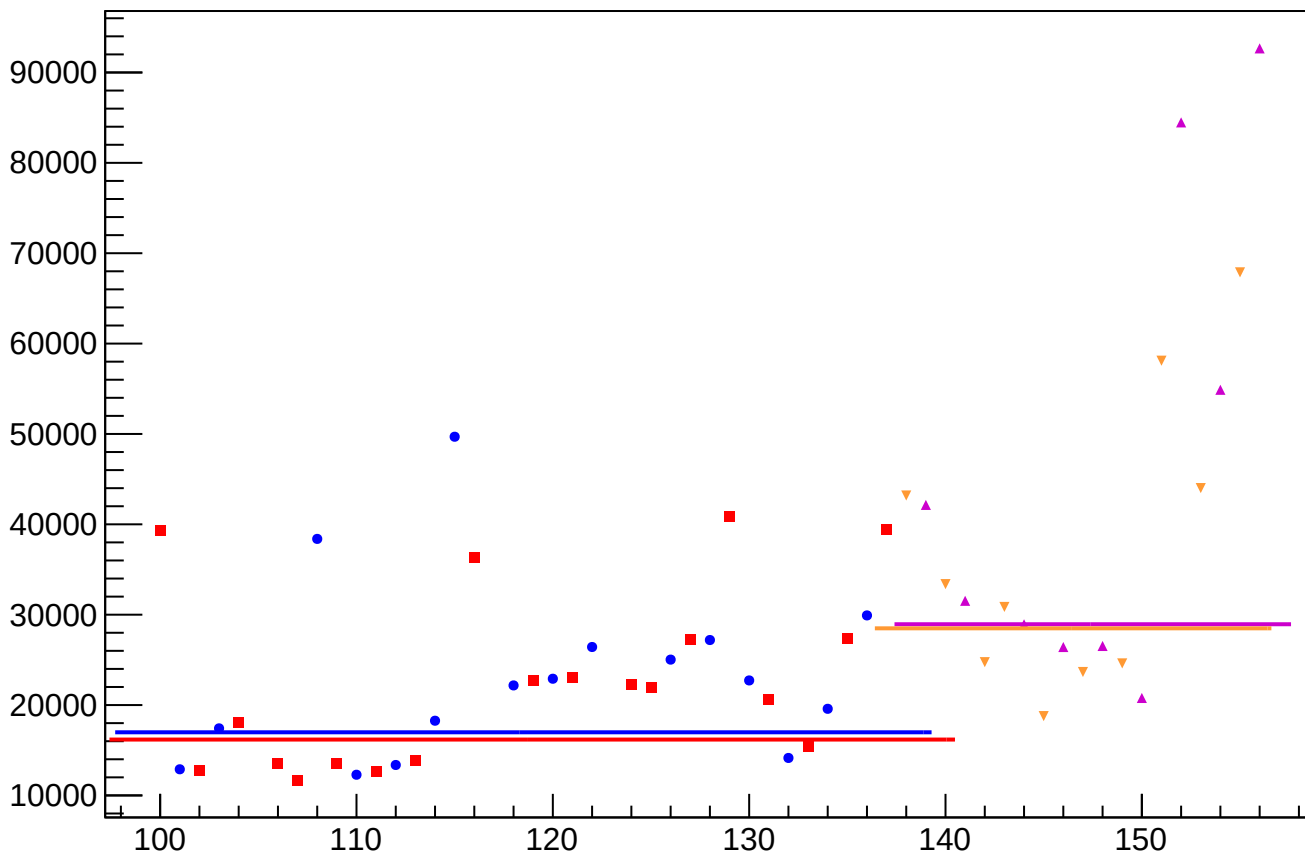
Right: 0.220 ± 4.975 χ^2/NDF : 42.0/34

In: 2.701 ± 6.443 χ^2/NDF : 26.7/24

Out: -0.299 ± 5.960 χ^2/NDF : 27.5/28

All: 1.085 ± 4.375 χ^2/NDF : 54.3/53

asym_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 16986.402 $\pm$ 5.190

χ^2 /NDF: 1194096.1/15

Left: 28701.901 $\pm$ 6.496 χ^2 /NDF: 3051618.4/18

Right: 16551.529 $\pm$ 3.518 χ^2 /NDF: 2458578.1/34

Left Out: 28490.531 $\pm$ 8.897

χ^2 /NDF: 1456424.5/9

In: 19731.705 $\pm$ 4.556 χ^2 /NDF: 4006542.8/24

Right Out: 16181.928 $\pm$ 4.785

χ^2 /NDF: 1251495.8/18

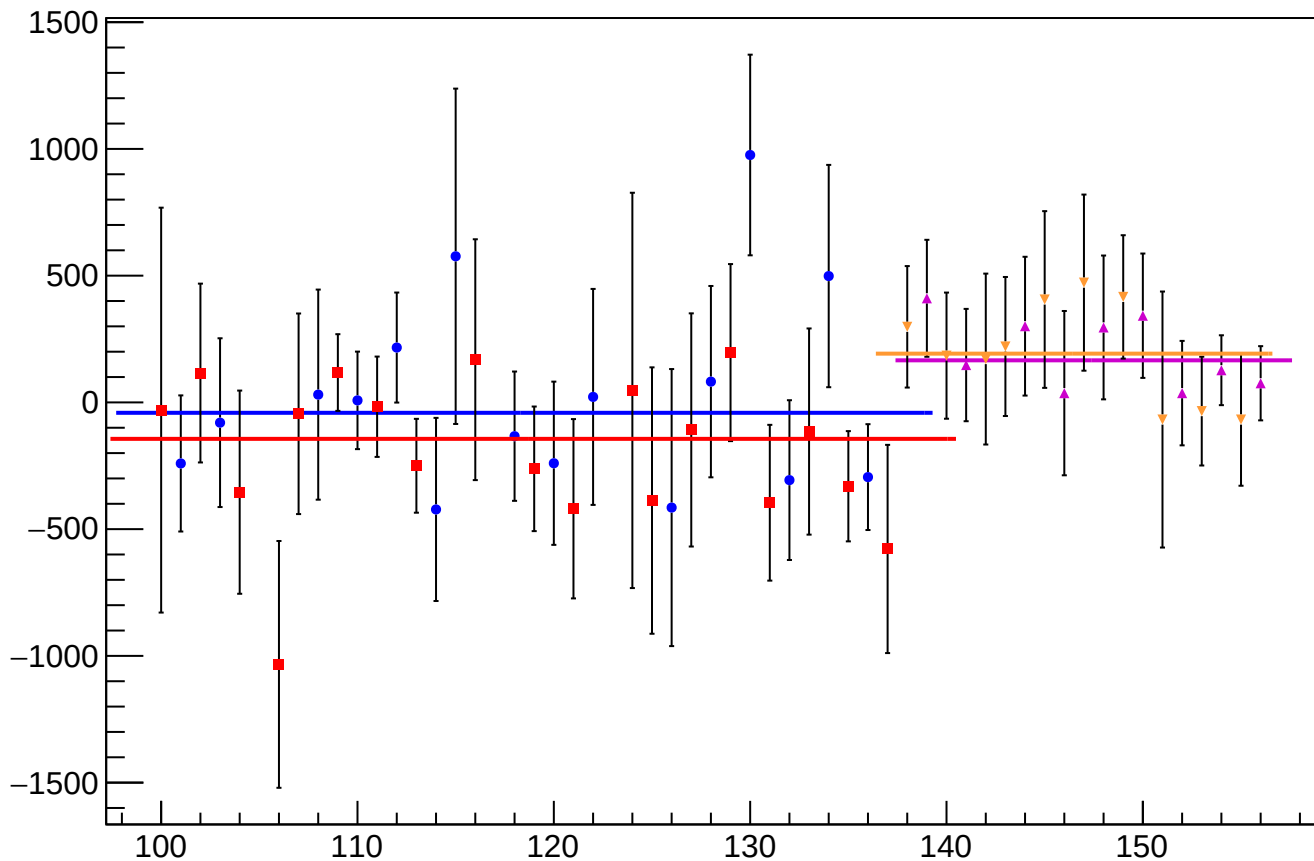
Out: 18943.274 $\pm$ 4.214 χ^2 /NDF: 4192365.7/28

Left In: 28943.256 $\pm$ 9.508

χ^2 /NDF: 1593985.1/8

All: 19306.836 $\pm$ 3.094 χ^2 /NDF: 8215048.7/5

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -41.048 ± 76.156 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 192.354 ± 87.915 $\chi^2/\text{NDF}: 4.5/9$

Right Out: -143.821 ± 68.080 $\chi^2/\text{NDF}: 13.0/18$

Left In: 165.960 ± 68.369 $\chi^2/\text{NDF}: 3.1/8$

Left: 175.907 ± 53.970 $\chi^2/\text{NDF}: 7.6/18$

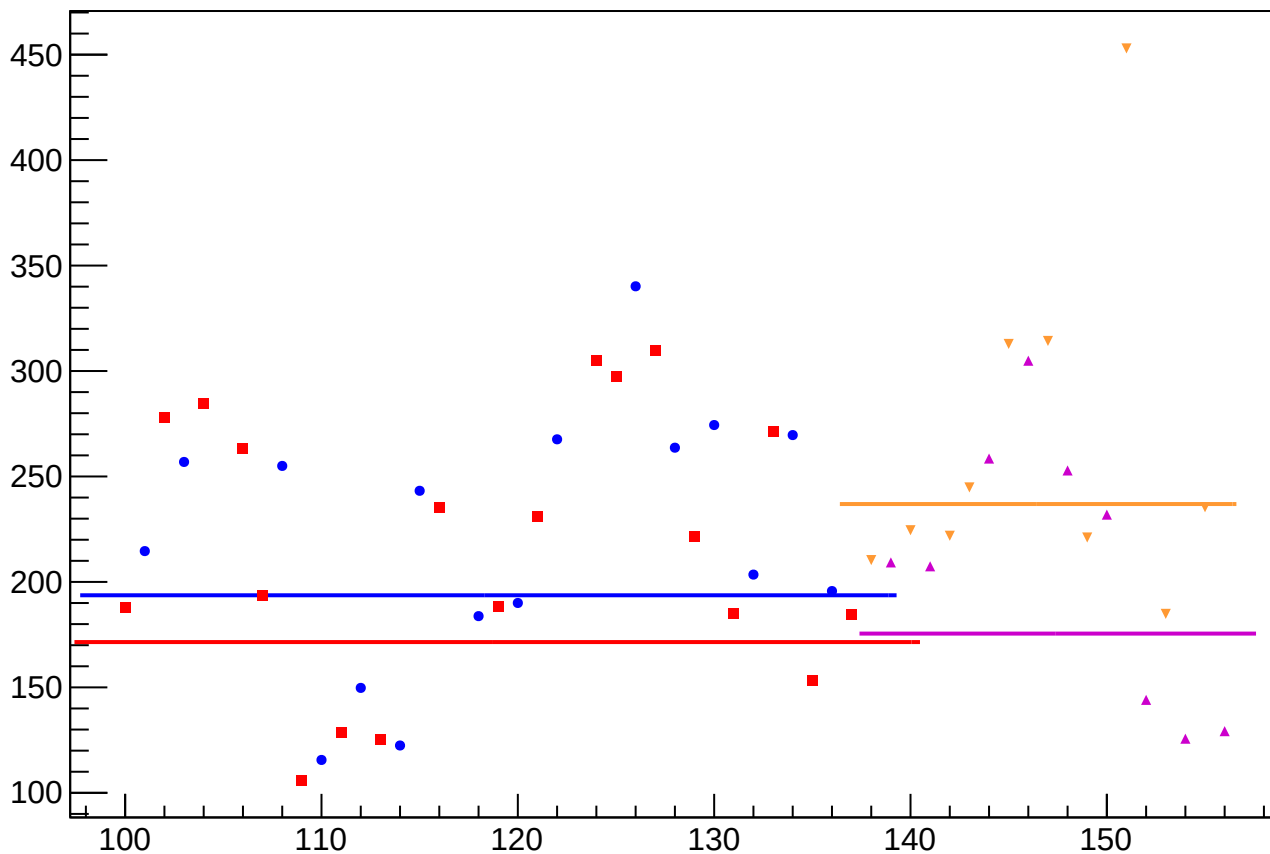
Right: -98.171 ± 50.756 $\chi^2/\text{NDF}: 29.5/34$

In: 73.577 ± 50.875 $\chi^2/\text{NDF}: 22.7/24$

Out: -17.798 ± 53.827 $\chi^2/\text{NDF}: 26.6/28$

All: 30.464 ± 36.974 $\chi^2/\text{NDF}: 50.8/53$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.670 +/- 0.054 χ^2/NDF : 1049772.0/15

Left Out: 236.929 +/- 0.062 χ^2/NDF : 721591.2/9

Right Out: 171.484 +/- 0.048 χ^2/NDF : 1652989.7/18

Left In: 175.503 +/- 0.048 χ^2/NDF : 1348968.0/8

Left: 198.652 +/- 0.038 χ^2/NDF : 2678986.6/18

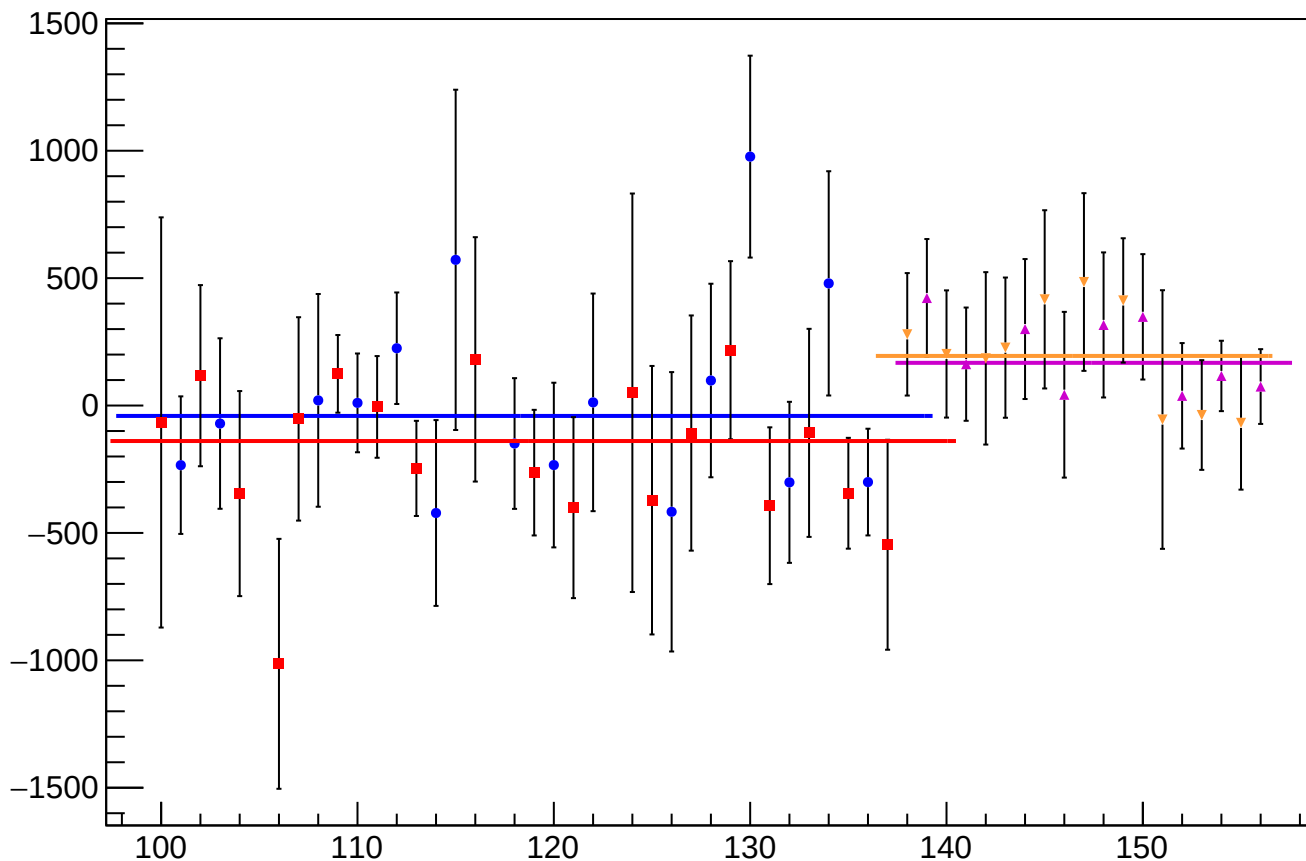
Right: 181.339 +/- 0.036 χ^2/NDF : 2797109.1/34

In: 183.610 +/- 0.036 χ^2/NDF : 2461765.2/24

Out: 196.018 +/- 0.038 χ^2/NDF : 3067428.4/28

All: 189.464 +/- 0.026 χ^2/NDF : 5585317.9/53

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -40.798 ± 76.579 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 194.692 ± 88.213 $\chi^2/\text{NDF}: 4.4/9$

Right Out: -139.292 ± 68.459 $\chi^2/\text{NDF}: 12.9/18$

Left In: 167.573 ± 68.566 $\chi^2/\text{NDF}: 3.3/8$

Left: 177.787 ± 54.136 $\chi^2/\text{NDF}: 7.8/18$

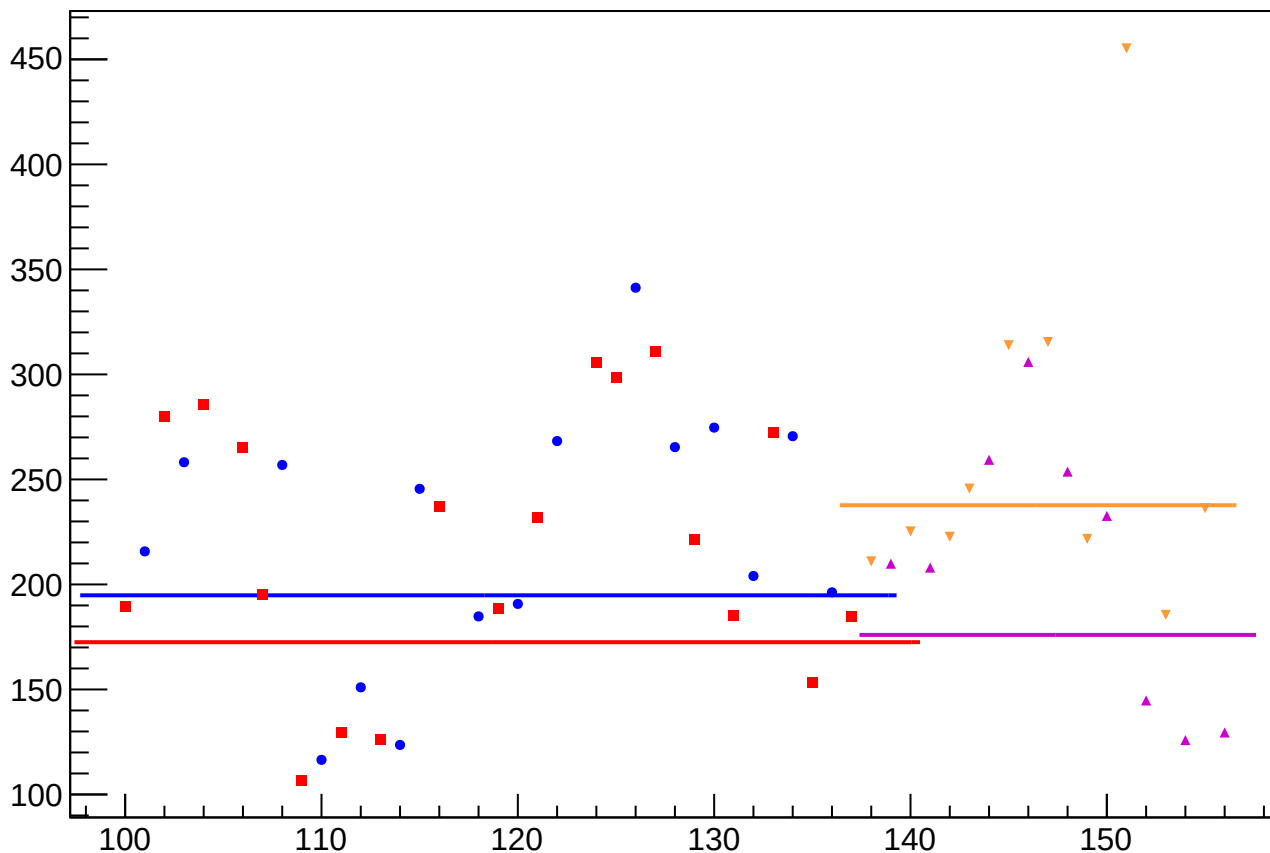
Right: -95.542 ± 51.038 $\chi^2/\text{NDF}: 29.2/34$

In: 74.856 ± 51.082 $\chi^2/\text{NDF}: 22.8/24$

Out: -13.750 ± 54.083 $\chi^2/\text{NDF}: 26.3/28$

All: 33.079 ± 37.136 $\chi^2/\text{NDF}: 50.5/53$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.819 +/- 0.054 χ^2/NDF : 1039096.7/15

Left Out: 237.715 +/- 0.062 χ^2/NDF : 723106.2/9

Right Out: 172.507 +/- 0.048 χ^2/NDF : 1642059.1/18

Left In: 175.976 +/- 0.048 χ^2/NDF : 1352293.7/8

Left: 199.228 +/- 0.038 χ^2/NDF : 2686111.2/18

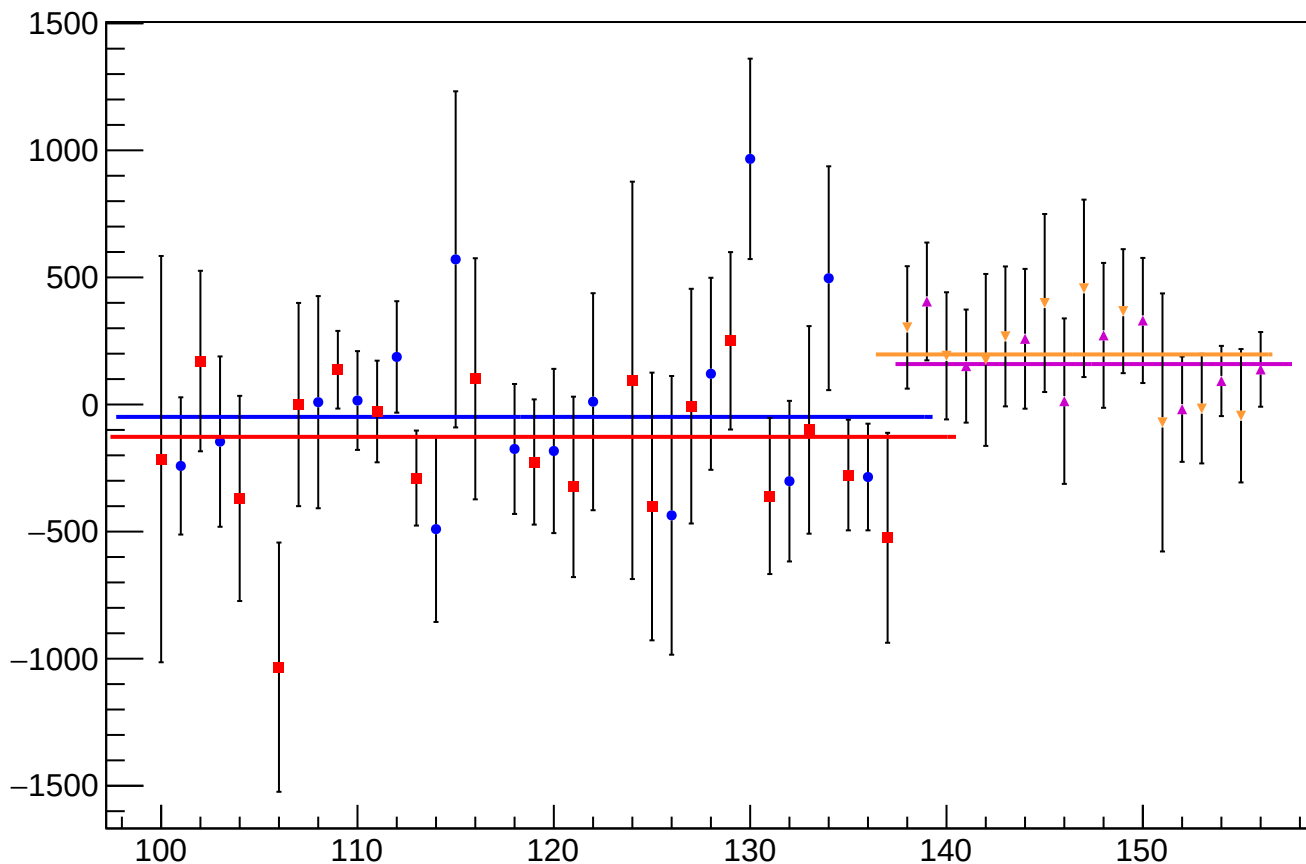
Right: 182.418 +/- 0.036 χ^2/NDF : 2775527.6/34

In: 184.360 +/- 0.036 χ^2/NDF : 2458606.2/24

Out: 197.018 +/- 0.038 χ^2/NDF : 3047233.1/28

All: 190.328 +/- 0.026 χ^2/NDF : 5563735.2/53

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -48.749 ± 76.592 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 197.044 ± 88.299 $\chi^2/\text{NDF}: 3.7/9$

Right Out: -127.249 ± 68.506 $\chi^2/\text{NDF}: 12.9/18$

Left In: 159.076 ± 68.623 $\chi^2/\text{NDF}: 3.1/8$

Left: 173.373 ± 54.184 $\chi^2/\text{NDF}: 7.0/18$

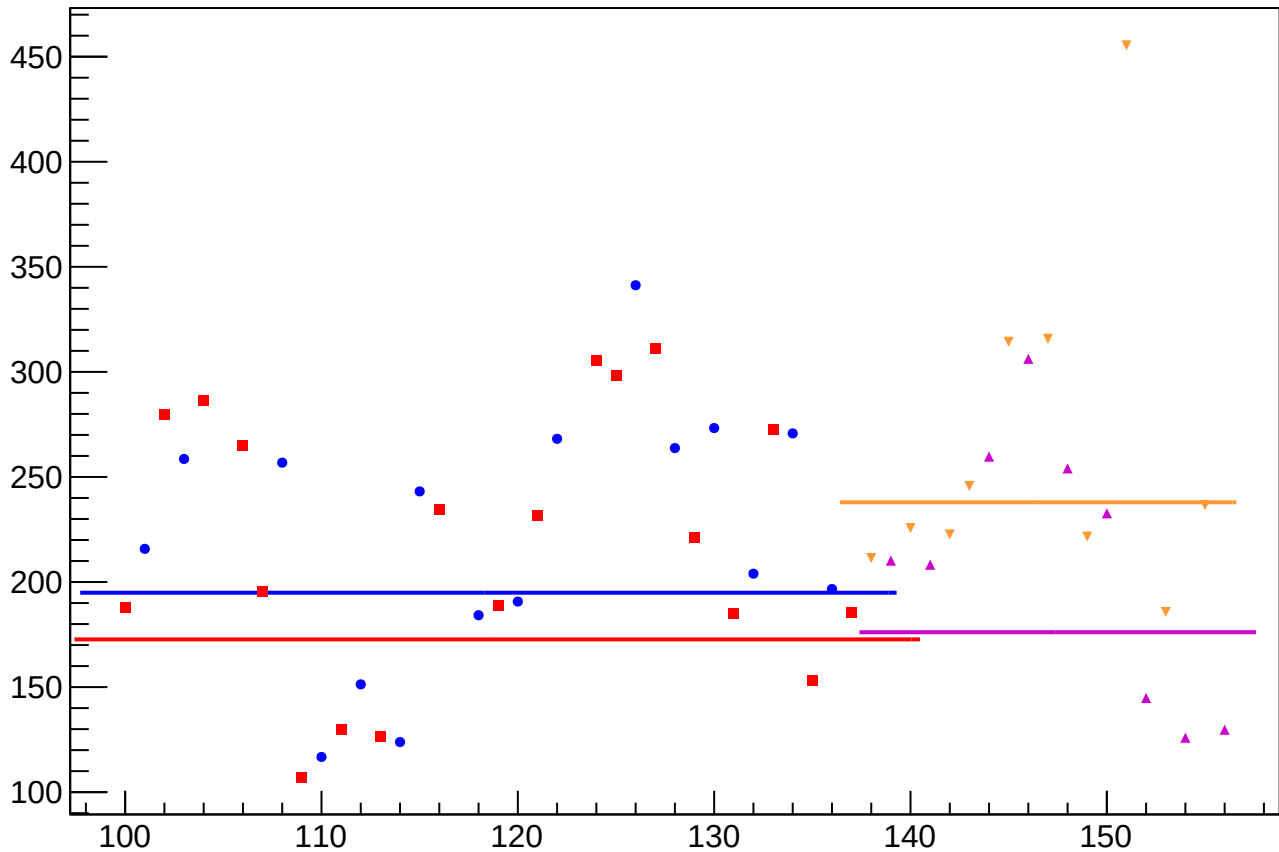
Right: -92.360 ± 51.061 $\chi^2/\text{NDF}: 28.9/34$

In: 66.534 ± 51.110 $\chi^2/\text{NDF}: 22.6/24$

Out: -5.394 ± 54.126 $\chi^2/\text{NDF}: 25.0/28$

All: 32.630 ± 37.161 $\chi^2/\text{NDF}: 48.6/53$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.923+/-0.054 χ^2/NDF : 1028901.2/15

Left Out: 237.956+/-0.062 χ^2/NDF : 722389.4/9

Right Out: 172.704+/-0.048 χ^2/NDF : 1631350.4/18

Left In: 176.113+/-0.049 χ^2/NDF : 1353819.0/8

Left: 199.401+/-0.038 χ^2/NDF : 2687850.8/18

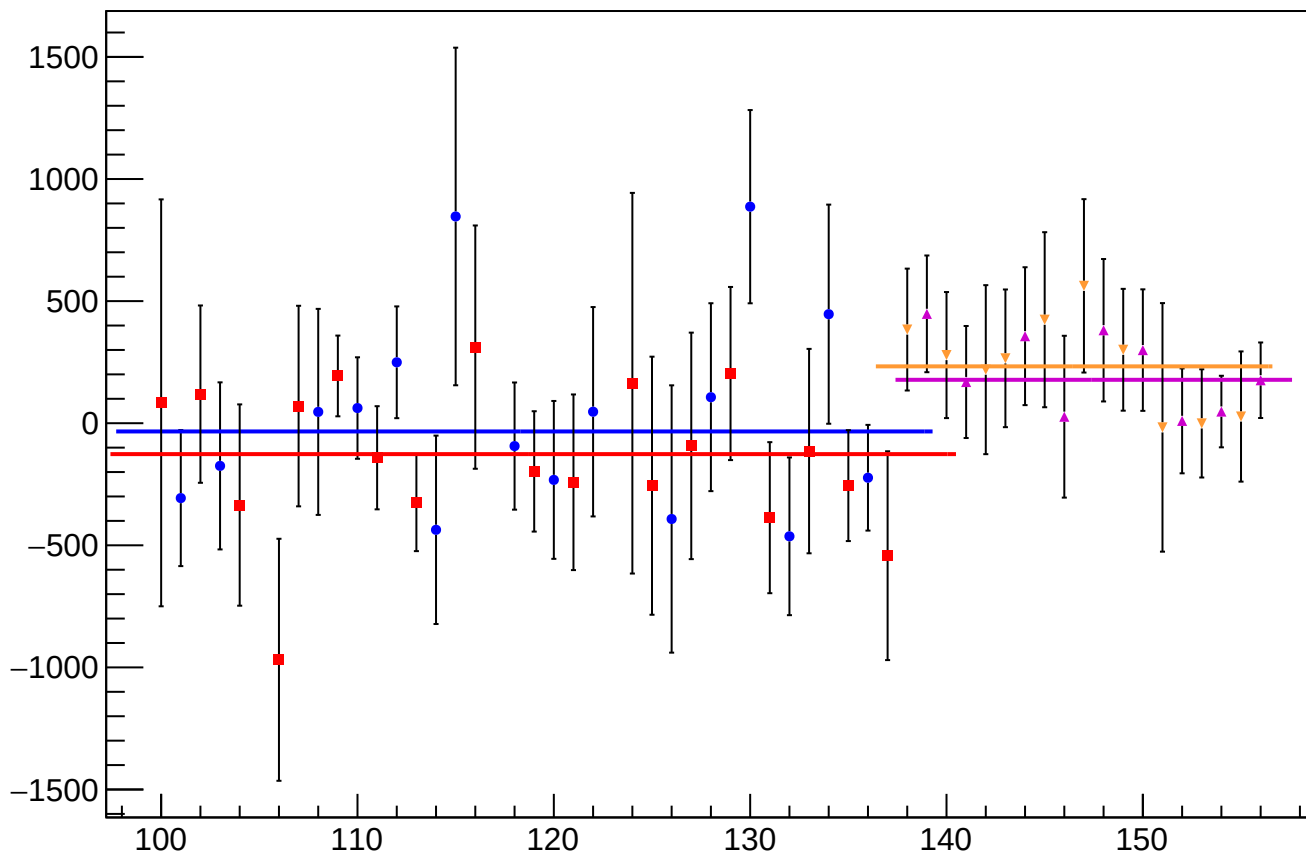
Right: 182.579+/-0.036 χ^2/NDF : 2753755.7/34

In: 184.489+/-0.036 χ^2/NDF : 2449628.5/24

Out: 197.223+/-0.038 χ^2/NDF : 3035555.2/28

All: 190.491+/-0.026 χ^2/NDF : 5543703.0/53

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -33.731 ± 78.996 $\chi^2/\text{NDF}: 15.7/15$

Left Out: 232.785 ± 90.505 $\chi^2/\text{NDF}: 3.6/9$

Right Out: -126.563 ± 71.309 $\chi^2/\text{NDF}: 12.7/18$

Left In: 177.755 ± 71.407 $\chi^2/\text{NDF}: 4.0/8$

Left: 198.868 ± 56.059 $\chi^2/\text{NDF}: 7.8/18$

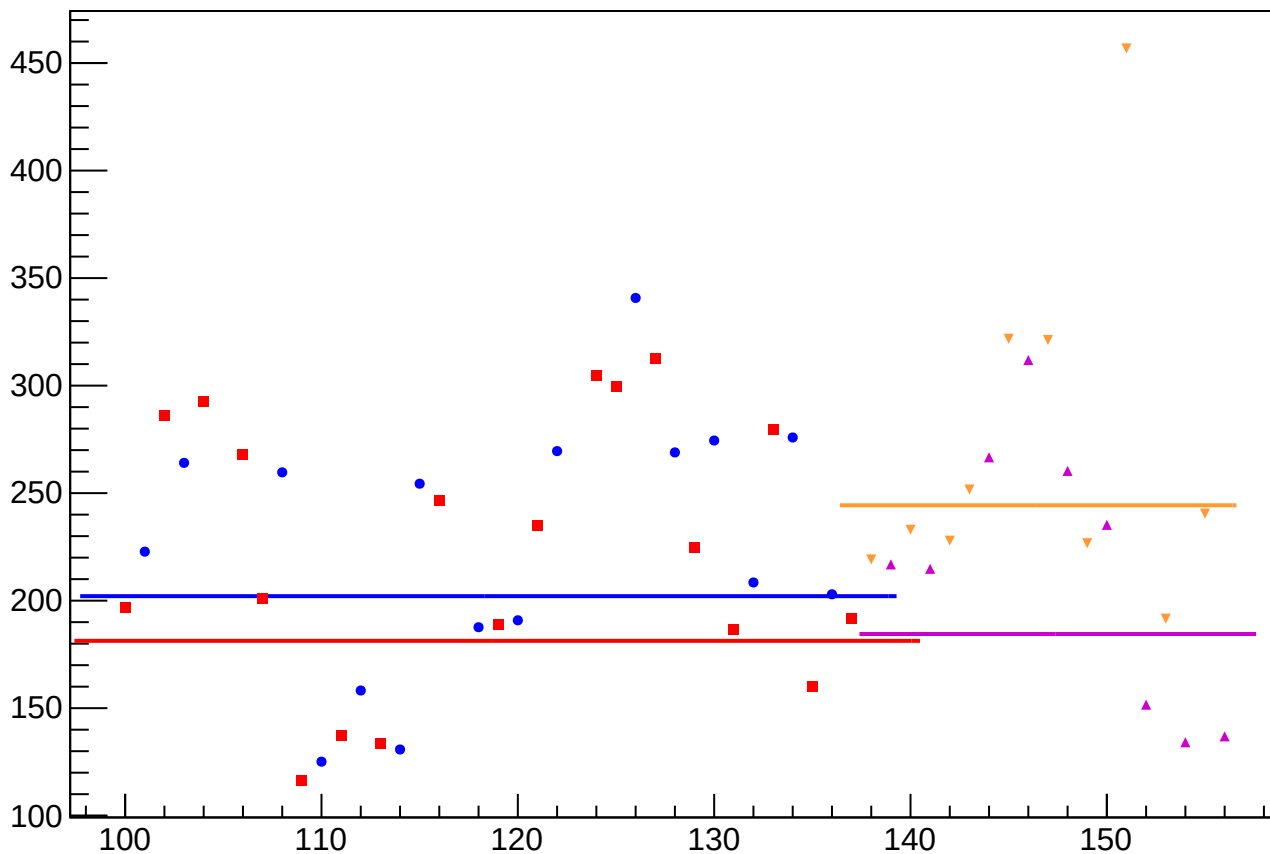
Right: -84.882 ± 52.933 $\chi^2/\text{NDF}: 29.2/34$

In: 82.655 ± 52.973 $\chi^2/\text{NDF}: 23.7/24$

Out: 11.073 ± 56.012 $\chi^2/\text{NDF}: 26.0/28$

All: 48.859 ± 38.487 $\chi^2/\text{NDF}: 50.5/53$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 202.090 $\pm$ 0.056 χ^2 /NDF: 910259.2/15

Left Out: 244.349 $\pm$ 0.064 χ^2 /NDF: 689358.7/9

Right Out: 181.312 $\pm$ 0.050 χ^2 /NDF: 1440989.4/18

Left In: 184.492 $\pm$ 0.050 χ^2 /NDF: 1227389.8/8

Left: 207.457 $\pm$ 0.040 χ^2 /NDF: 2455922.4/18

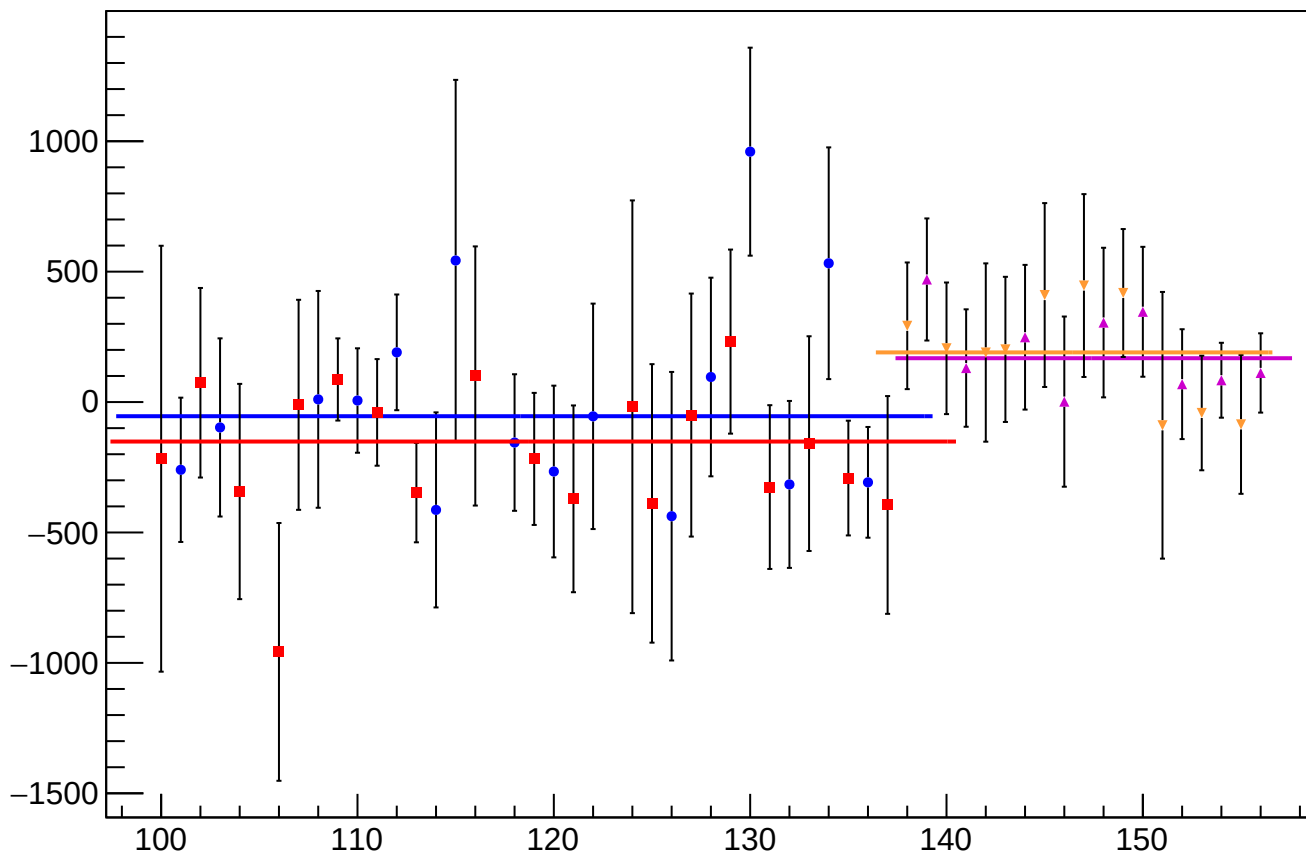
Right: 190.641 $\pm$ 0.037 χ^2 /NDF: 2427488.6/34

In: 192.406 $\pm$ 0.037 χ^2 /NDF: 2192270.3/24

Out: 205.456 $\pm$ 0.040 χ^2 /NDF: 2728964.0/28

All: 198.567 $\pm$ 0.027 χ^2 /NDF: 4978549.8/53

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -54.254+/-77.946 χ^2/NDF : 15.1/15

Left Out: 190.377+/-89.227 χ^2/NDF : 4.5/9

Right Out: -151.358+/-69.902 χ^2/NDF : 10.2/18

Left In: 168.098+/-70.189 χ^2/NDF : 3.5/8

Left: 176.614+/-55.166 χ^2/NDF : 8.0/18

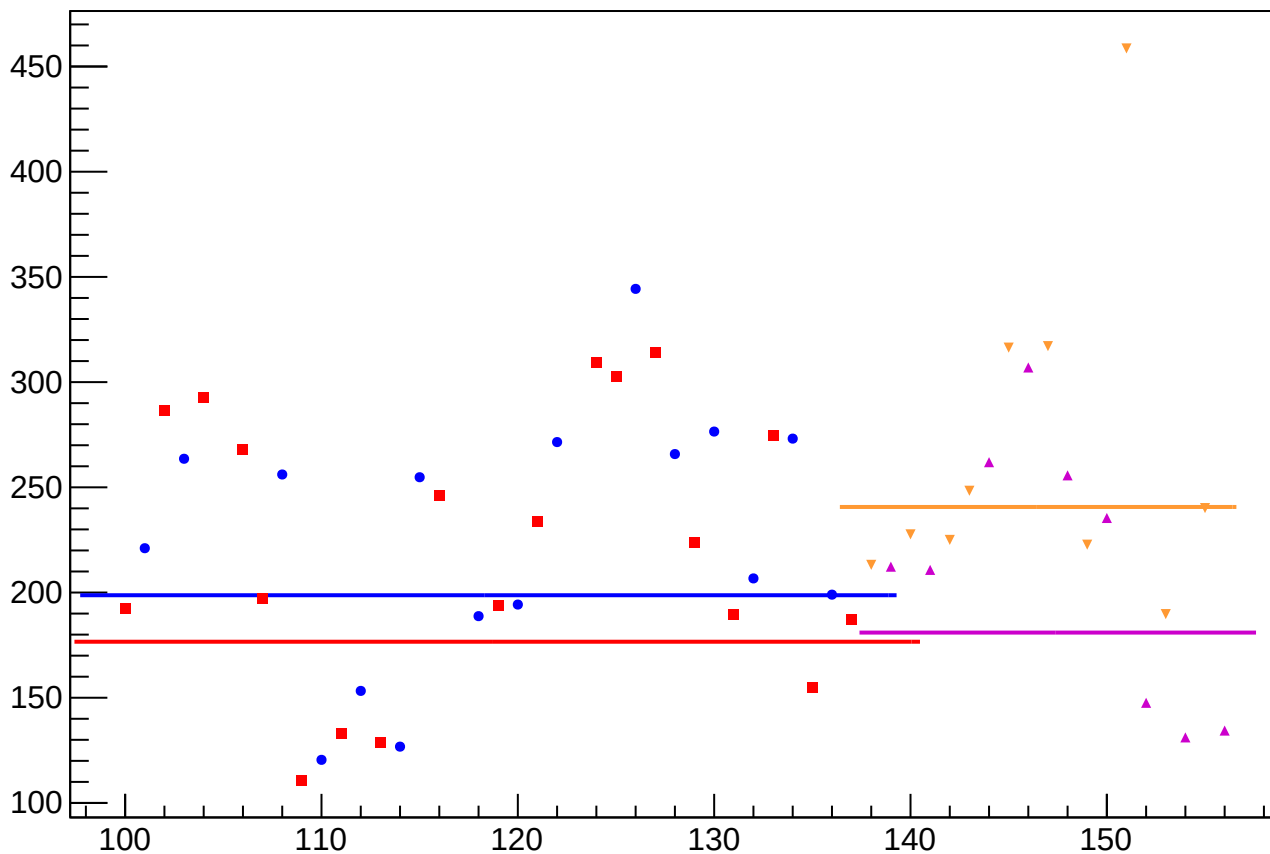
Right: -108.074+/-52.040 χ^2/NDF : 26.2/34

In: 68.533+/-52.159 χ^2/NDF : 23.0/24

Out: -21.388+/-55.026 χ^2/NDF : 23.8/28

All: 25.976+/-37.855 χ^2/NDF : 48.2/53

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.718 $\pm$ 0.055 χ^2 /NDF: 994068.9/15

Left Out: 240.666 $\pm$ 0.063 χ^2 /NDF: 705563.6/9

Right Out: 176.621 $\pm$ 0.049 χ^2 /NDF: 1595710.1/18

Left In: 180.968 $\pm$ 0.050 χ^2 /NDF: 1249727.1/8

Left: 203.788 $\pm$ 0.039 χ^2 /NDF: 2508347.6/18

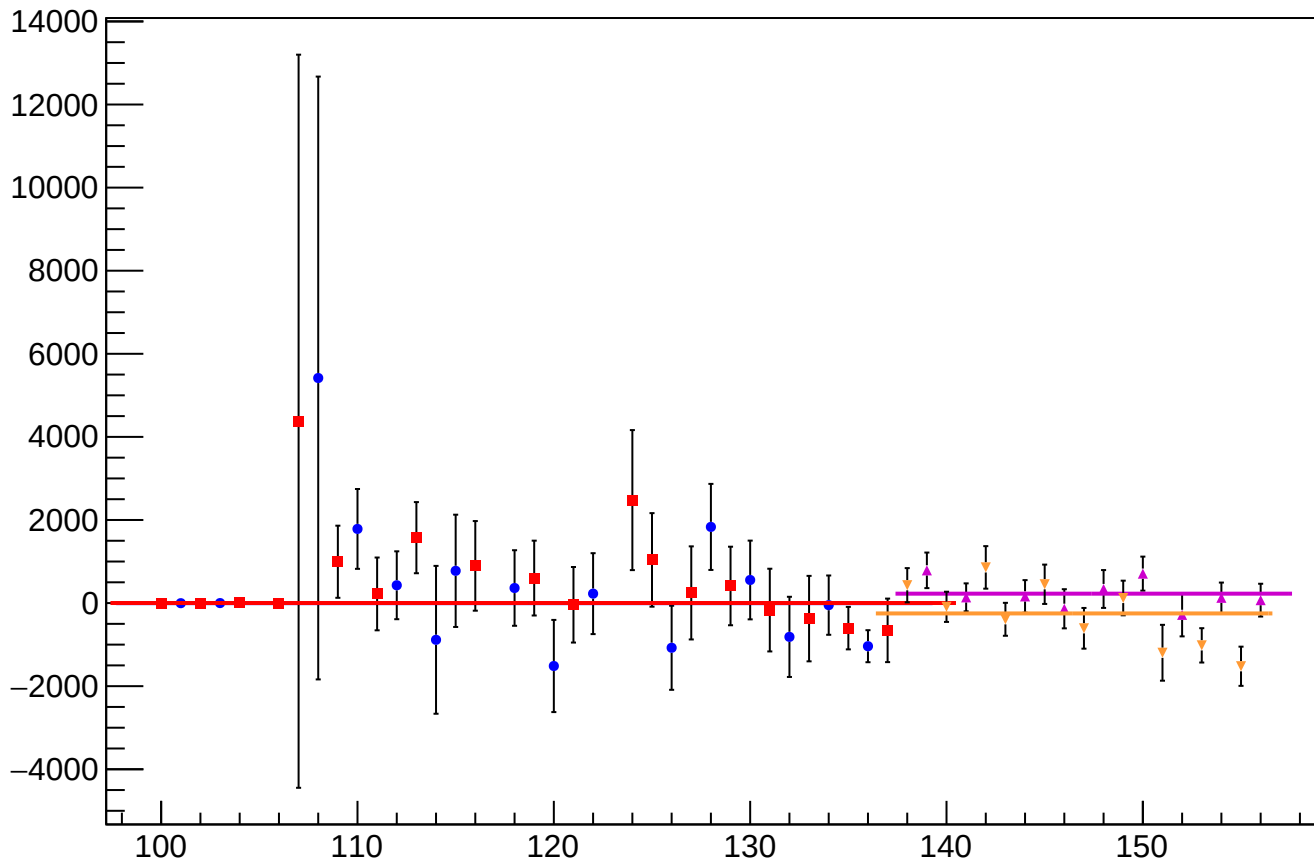
Right: 186.471 $\pm$ 0.037 χ^2 /NDF: 2678866.0/34

In: 188.916 $\pm$ 0.037 χ^2 /NDF: 2301073.2/24

Out: 200.979 $\pm$ 0.039 χ^2 /NDF: 2939789.7/28

All: 194.625 $\pm$ 0.027 χ^2 /NDF: 5291490.1/53

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.239 ± 2.171 χ^2/NDF : 19.9/15

Left Out: -249.305 ± 140.605 χ^2/NDF : 24.0/9

Right Out: 1.377 ± 2.022 χ^2/NDF : 16.8/18

Left In: 226.412 ± 136.453 χ^2/NDF : 5.1/8

Left: -4.319 ± 97.922 χ^2/NDF : 34.9/18

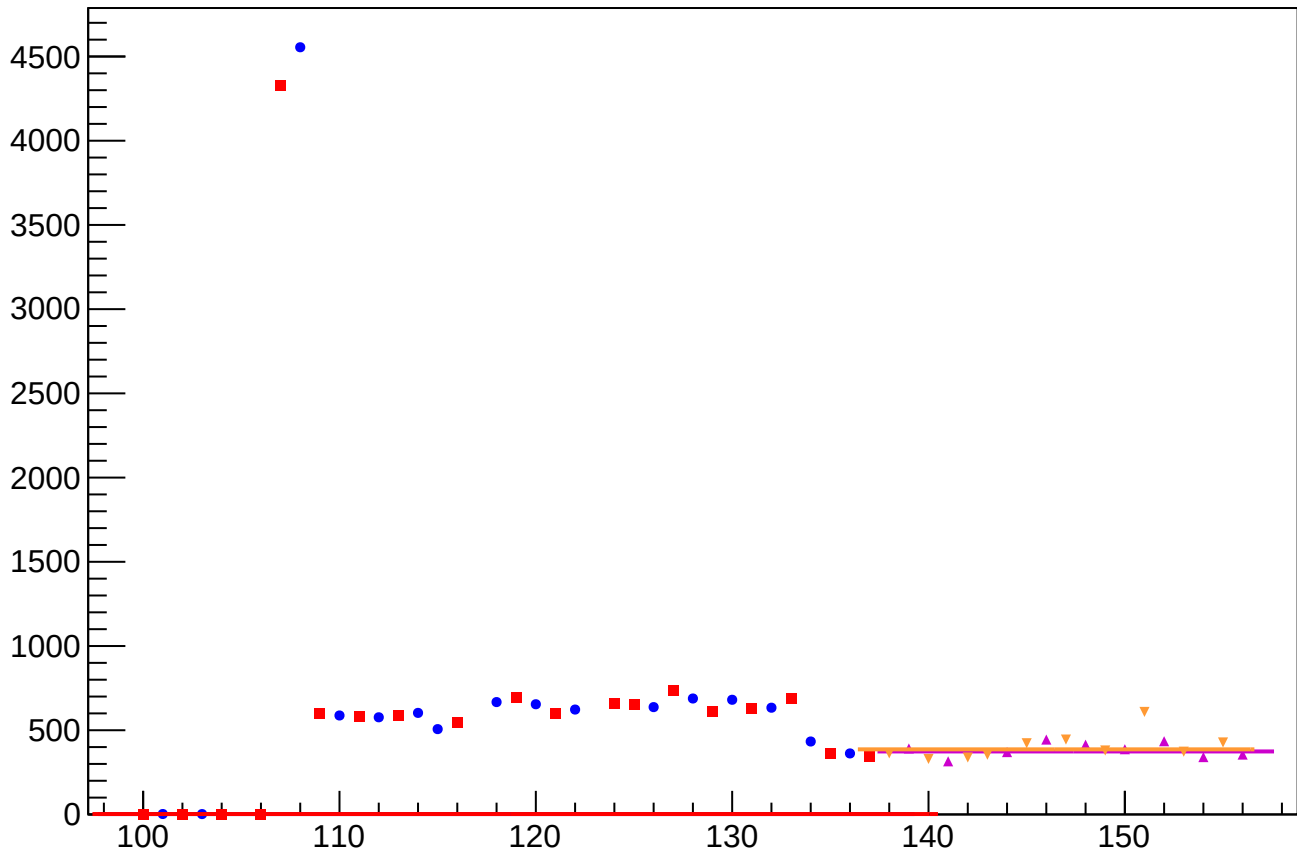
Right: 0.162 ± 1.480 χ^2/NDF : 37.5/34

In: -1.181 ± 2.171 χ^2/NDF : 27.7/24

Out: 1.326 ± 2.022 χ^2/NDF : 44.0/28

All: 0.161 ± 1.480 χ^2/NDF : 72.4/53

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.477+/-0.002 χ^2/NDF : 11626192.3/15

Left Out: 386.515+/-0.099 χ^2/NDF : 362779.6/9

Right Out: 2.462+/-0.001 χ^2/NDF : 11545445.6/18

Left In: 374.094+/-0.096 χ^2/NDF : 175334.3/8

Left: 380.119+/-0.069 χ^2/NDF : 546151.2/18

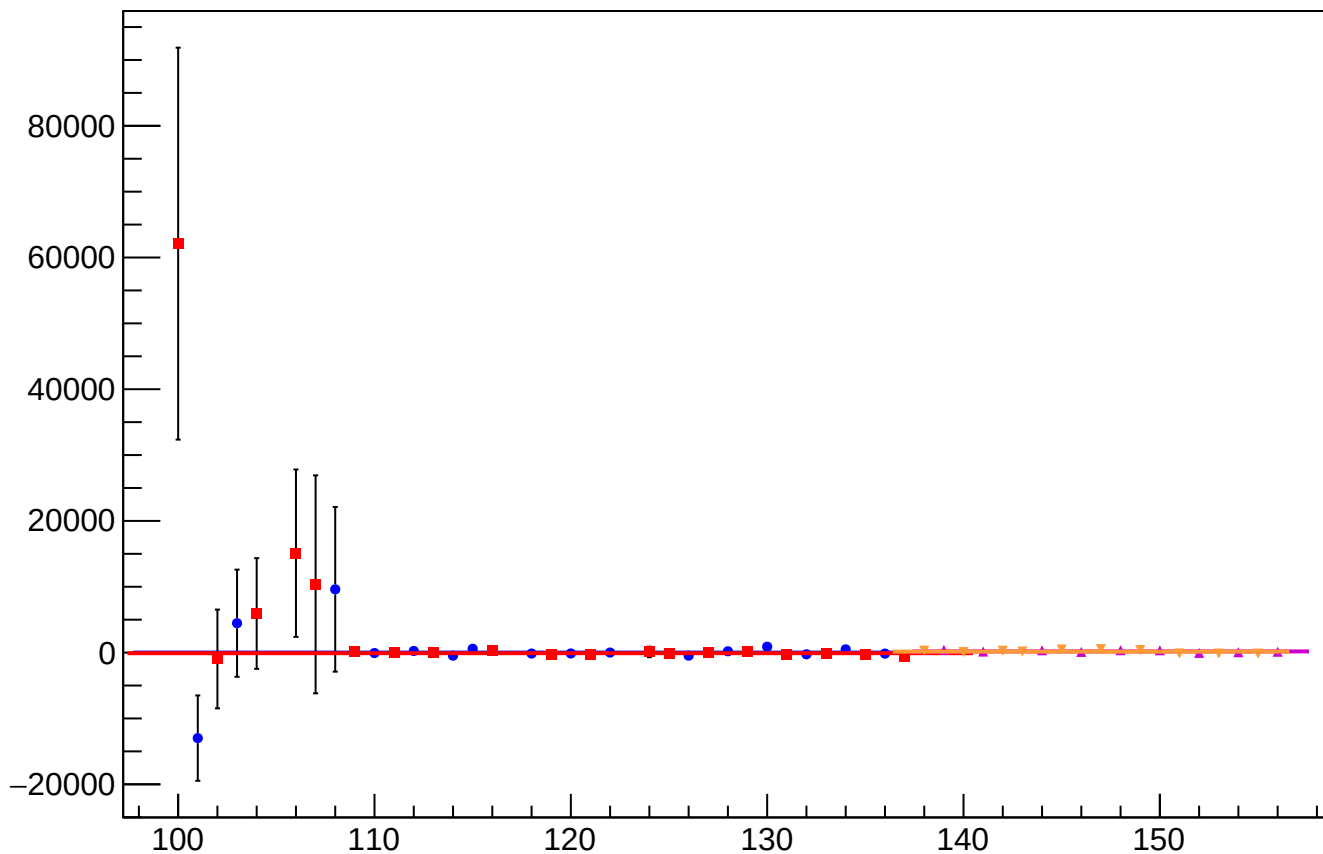
Right: 2.469+/-0.001 χ^2/NDF : 23171686.0/34

In: 2.571+/-0.002 χ^2/NDF : 26631801.4/24

Out: 2.542+/-0.001 χ^2/NDF : 26826555.8/28

All: 2.555+/-0.001 χ^2/NDF : 53458550.0/53

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 0.575 ± 87.823 $\chi^2/\text{NDF}: 16.8/15$

Left Out: 154.101 ± 94.807 $\chi^2/\text{NDF}: 5.9/9$

Right Out: -88.089 ± 81.605 $\chi^2/\text{NDF}: 14.9/18$

Left In: 179.081 ± 76.486 $\chi^2/\text{NDF}: 3.7/8$

Left: 169.233 ± 59.529 $\chi^2/\text{NDF}: 9.6/18$

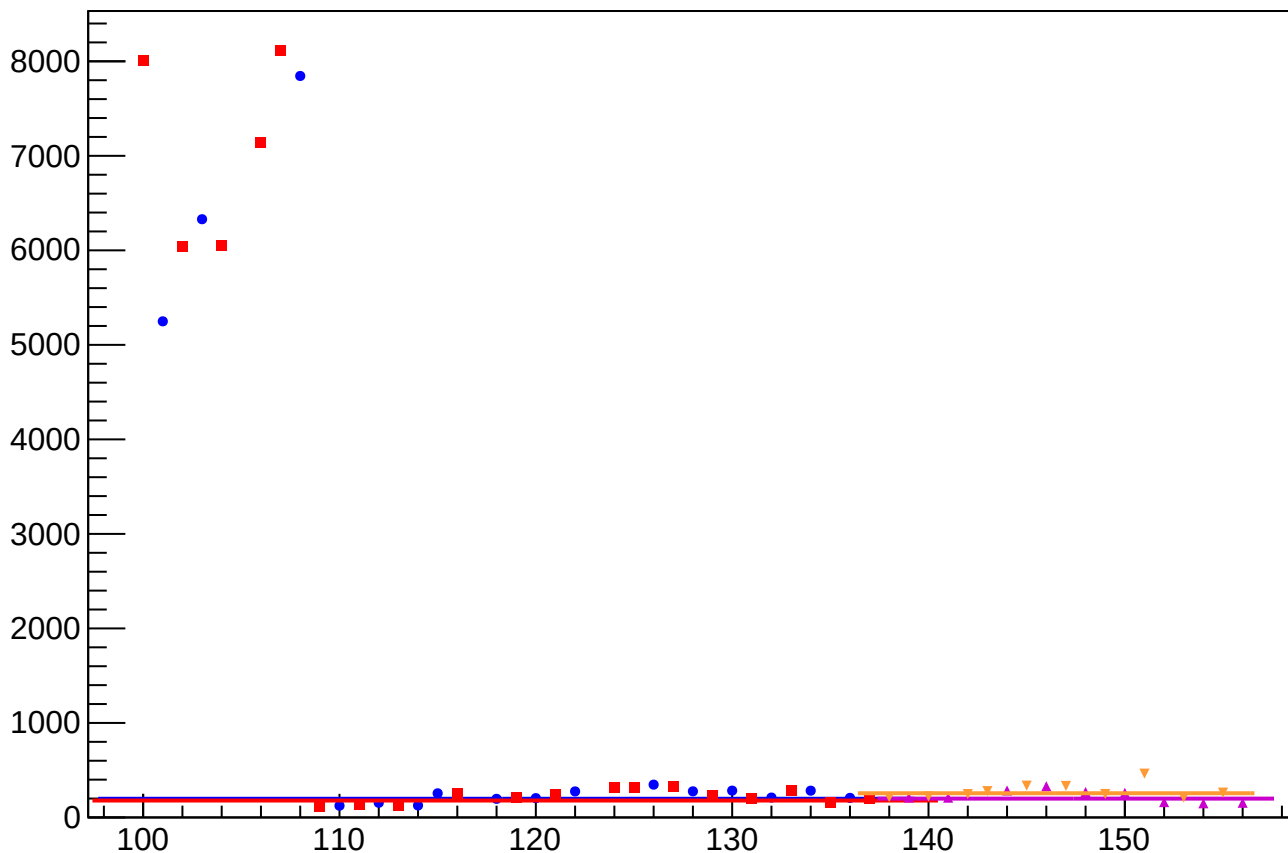
Right: -47.007 ± 59.781 $\chi^2/\text{NDF}: 32.3/34$

In: 102.086 ± 57.678 $\chi^2/\text{NDF}: 22.8/24$

Out: 14.982 ± 61.849 $\chi^2/\text{NDF}: 24.6/28$

All: 61.570 ± 42.182 $\chi^2/\text{NDF}: 48.5/53$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.620+/-0.062 χ^2/NDF : 3957192.6/15

Left Out: 256.080+/-0.067 χ^2/NDF : 692351.4/9

Right Out: 179.250+/-0.058 χ^2/NDF : 4418422.9/18

Left In: 199.399+/-0.054 χ^2/NDF : 1018203.3/8

Left: 221.746+/-0.042 χ^2/NDF : 2143575.7/18

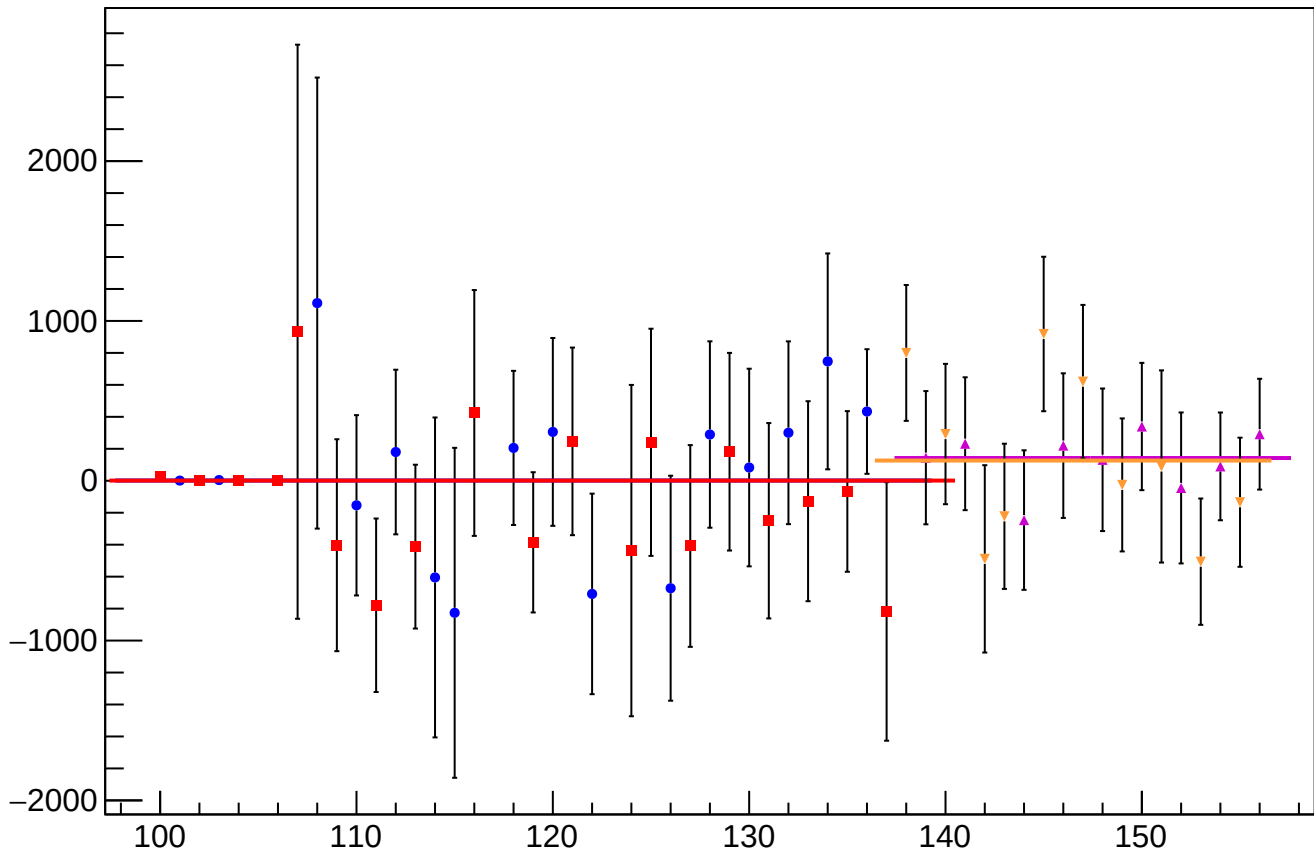
Right: 187.761+/-0.042 χ^2/NDF : 8422574.8/34

In: 198.632+/-0.041 χ^2/NDF : 4975862.9/24

Out: 211.947+/-0.044 χ^2/NDF : 5865241.1/28

All: 204.825+/-0.030 χ^2/NDF : 10890684.8/53

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1.456+/-1.660 χ^2/NDF : 7.9/15

Left Out: 126.503+/-144.077 χ^2/NDF : 11.2/9

Right Out: 1.094+/-1.528 χ^2/NDF : 9.2/18

Left In: 142.217+/-135.321 χ^2/NDF : 1.5/8

Left: 134.852+/-98.637 χ^2/NDF : 12.7/18

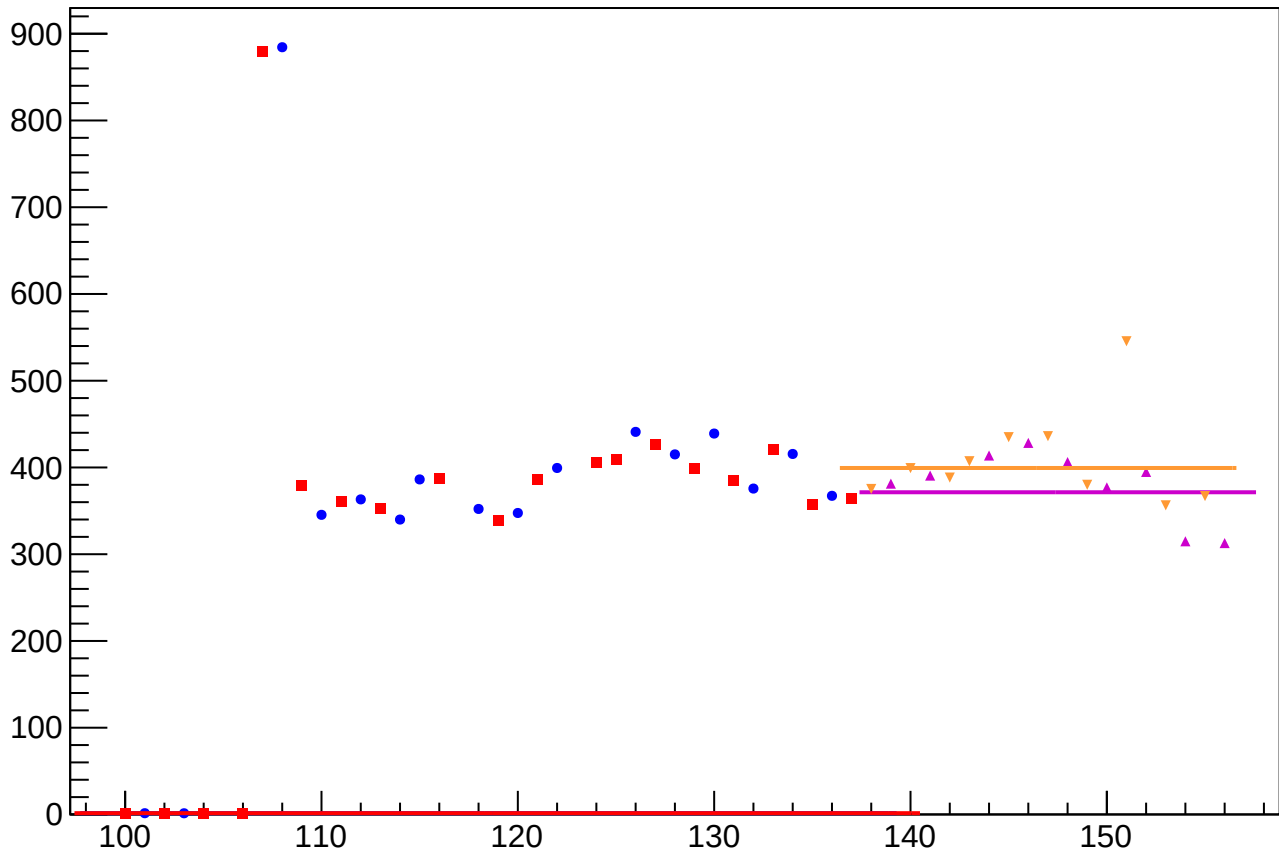
Right: 1.260+/-1.124 χ^2/NDF : 17.1/34

In: 1.477+/-1.660 χ^2/NDF : 10.4/24

Out: 1.108+/-1.528 χ^2/NDF : 21.1/28

All: 1.277+/-1.124 χ^2/NDF : 31.6/53

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.470 $\pm$ 0.001 χ^2 /NDF: 11735334.0/15

Left Out: 399.408 $\pm$ 0.102 χ^2 /NDF:189269.6/9

Right Out: 1.467 $\pm$ 0.001 χ^2 /NDF: 11270430.6/18

Left In: 371.420 $\pm$ 0.096 χ^2 /NDF:186687.8/8

Left: 384.538 $\pm$ 0.070 χ^2 /NDF: 416055.3/18

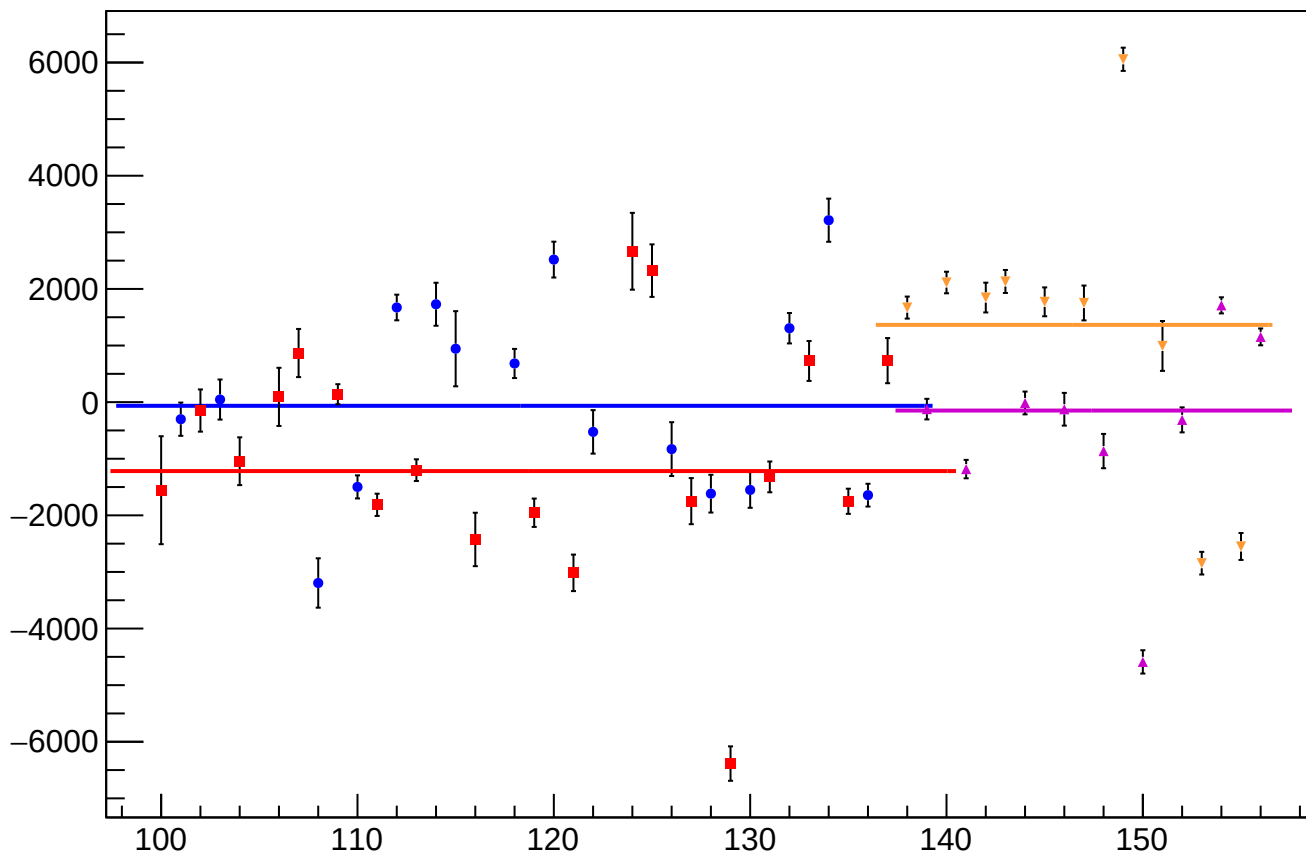
Right: 1.469 $\pm$ 0.001 χ^2 /NDF: 23005768.2/34

In: 1.526 $\pm$ 0.001 χ^2 /NDF:26867839.5/24

Out: 1.512 $\pm$ 0.001 χ^2 /NDF:26715300.6/28

All: 1.518 $\pm$ 0.001 χ^2 /NDF: 53583216.7/53

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -64.993 ± 74.895 χ^2/NDF : 469.5/15

Left Out: 1364.902 ± 72.534 χ^2/NDF : 1276.3/9

Right Out: -1217.846 ± 69.022 χ^2/NDF : 594.6/18

Left In: -148.597 ± 62.748 χ^2/NDF : 758.5/8

Left: 499.242 ± 47.455 χ^2/NDF : 2283.8/18

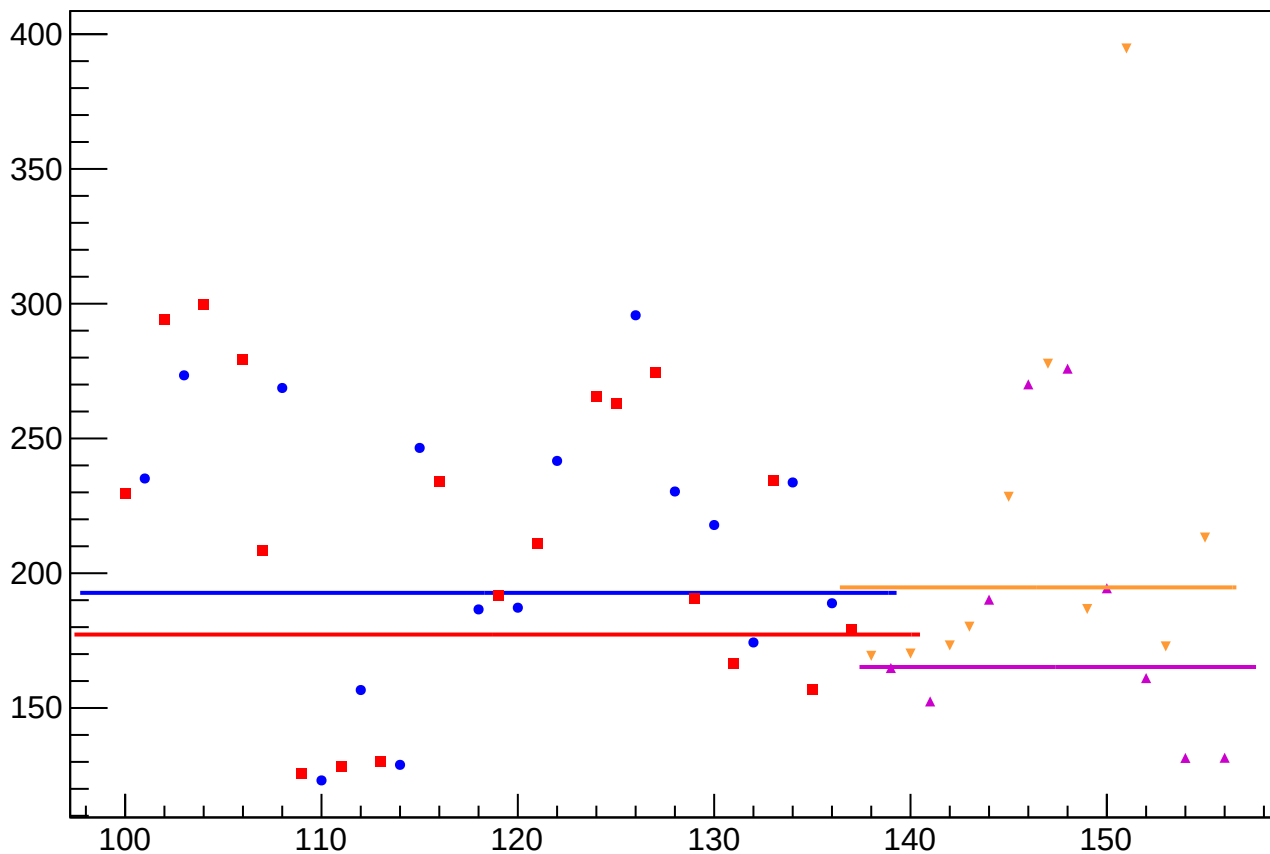
Right: -688.385 ± 50.755 χ^2/NDF : 1192.2/34

In: -114.116 ± 48.098 χ^2/NDF : 1228.7/24

Out: 9.489 ± 50.002 χ^2/NDF : 2536.2/28

All: -54.711 ± 34.664 χ^2/NDF : 3768.1/53

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 192.719 ± 0.053 χ^2/NDF : 759146.3/15

Left Out: 194.744 ± 0.051 χ^2/NDF : 722283.0/9

Right Out: 177.251 ± 0.049 χ^2/NDF : 1226180.2/18

Left In: 165.212 ± 0.044 χ^2/NDF : 828492.0/8

Left: 177.853 ± 0.034 χ^2/NDF : 1740401.5/18

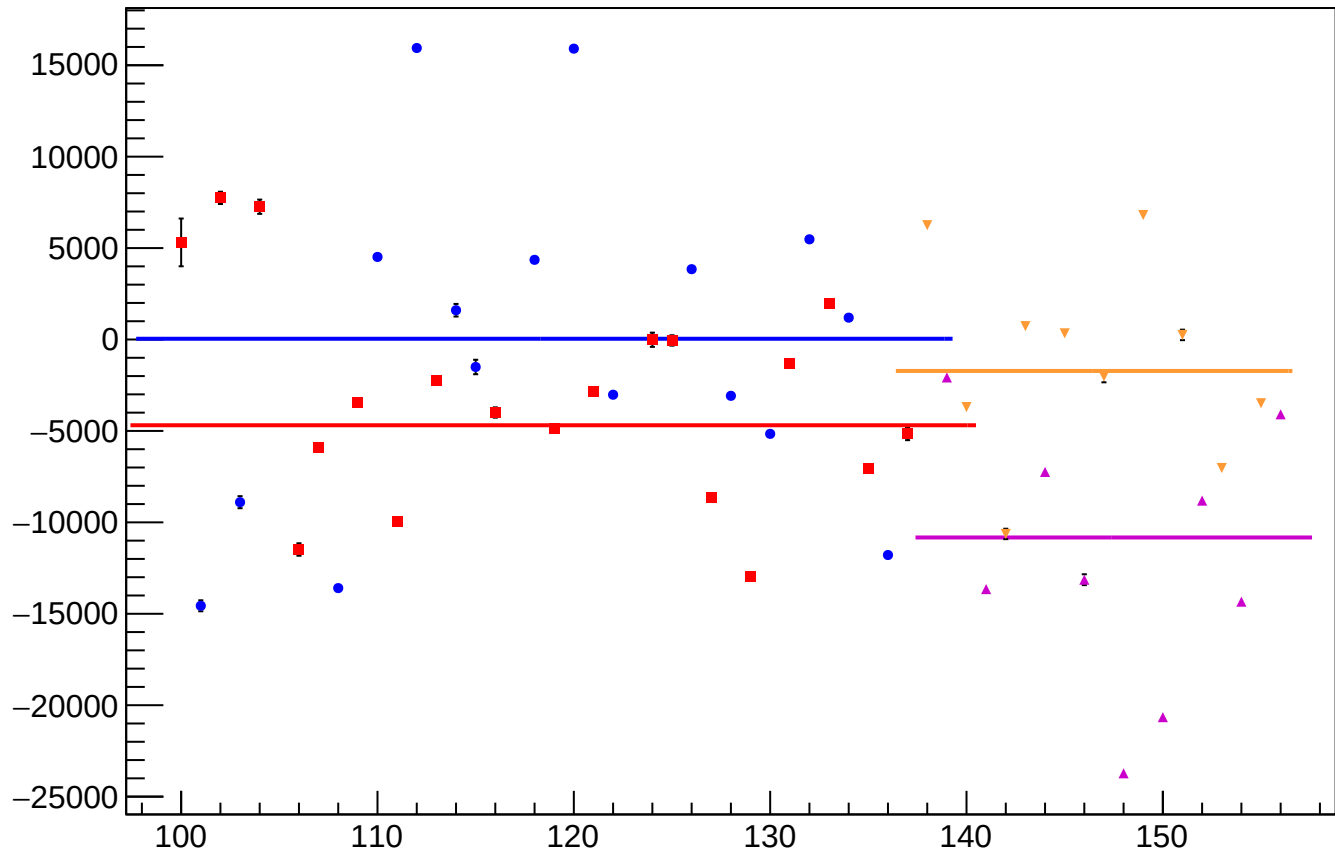
Right: 184.355 ± 0.036 χ^2/NDF : 2031455.3/34

In: 176.557 ± 0.034 χ^2/NDF : 1746154.4/24

Out: 185.564 ± 0.035 χ^2/NDF : 2009508.4/28

All: 180.886 ± 0.025 χ^2/NDF : 3789370.2/53

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915+/-54.199 χ^2/NDF : 30786.3/15

Left Out: -1719.719+/-66.409 χ^2/NDF : 5951.6/9

Right Out: -4689.710+/-52.095 χ^2/NDF : 7795.7/18

Left In: -10827.078+/-66.548 χ^2/NDF : 9556.5/8

Left: -6263.917+/-47.007 χ^2/NDF : 24892.2/18

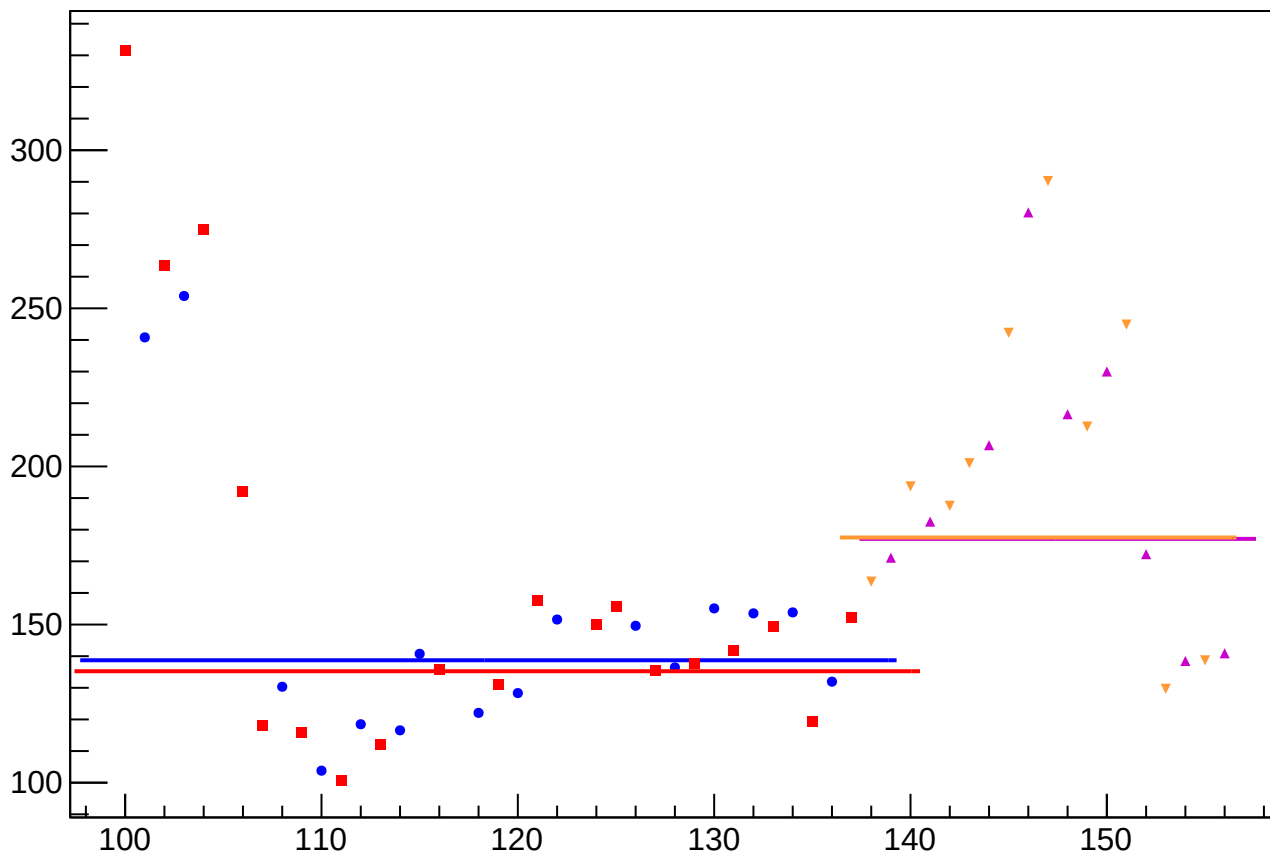
Right: -2417.983+/-37.558 χ^2/NDF : 42541.9/34

In: -4293.081+/-42.025 χ^2/NDF : 56377.5/24

Out: -3558.306+/-40.988 χ^2/NDF : 14985.5/28

All: -3916.523+/-29.343 χ^2/NDF : 71519.7/53

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2 /NDF: 657791.3/15

Left Out: 177.535 $\pm$ 0.047 χ^2 /NDF: 911858.8/9

Right Out: 135.245 $\pm$ 0.037 χ^2 /NDF: 890024.8/18

Left In: 177.098 $\pm$ 0.047 χ^2 /NDF: 670694.6/8

Left: 177.317 $\pm$ 0.033 χ^2 /NDF: 1582596.6/18

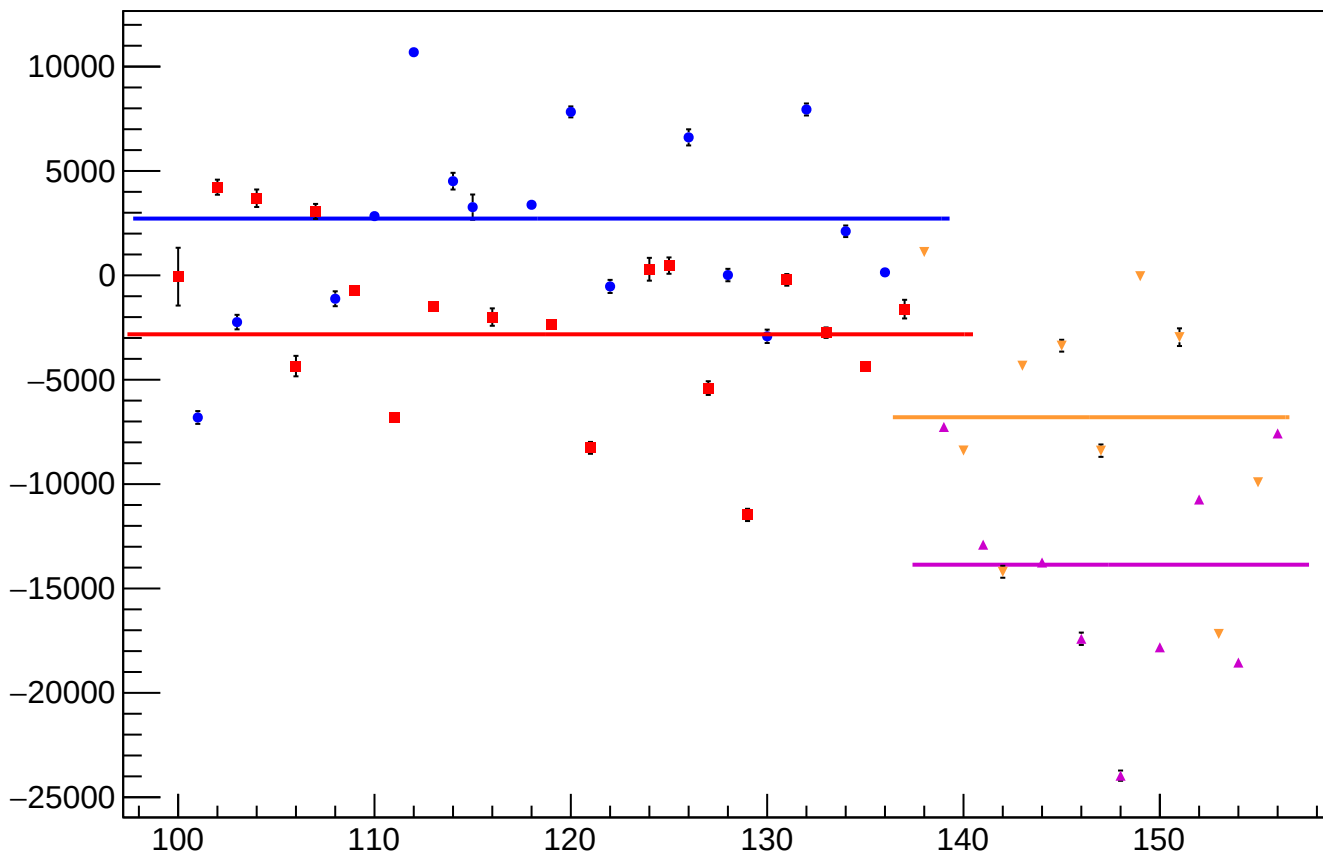
Right: 136.910 $\pm$ 0.027 χ^2 /NDF: 1552069.4/34

In: 154.020 $\pm$ 0.030 χ^2 /NDF: 1728553.4/24

Out: 151.355 $\pm$ 0.029 χ^2 /NDF: 2303952.1/28

All: 152.654 $\pm$ 0.021 χ^2 /NDF: 4036626.0/53

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896+/-69.247 χ^2/NDF : 4129.3/15

Left Out: -6796.426+/-76.142 χ^2/NDF : 6475.9/9

Right Out: -2823.679+/-64.850 χ^2/NDF : 3062.8/18

Left In: -13860.637+/-67.174 χ^2/NDF : 5922.6/8

Left: -10768.853+/-50.373 χ^2/NDF : 17238.7/18

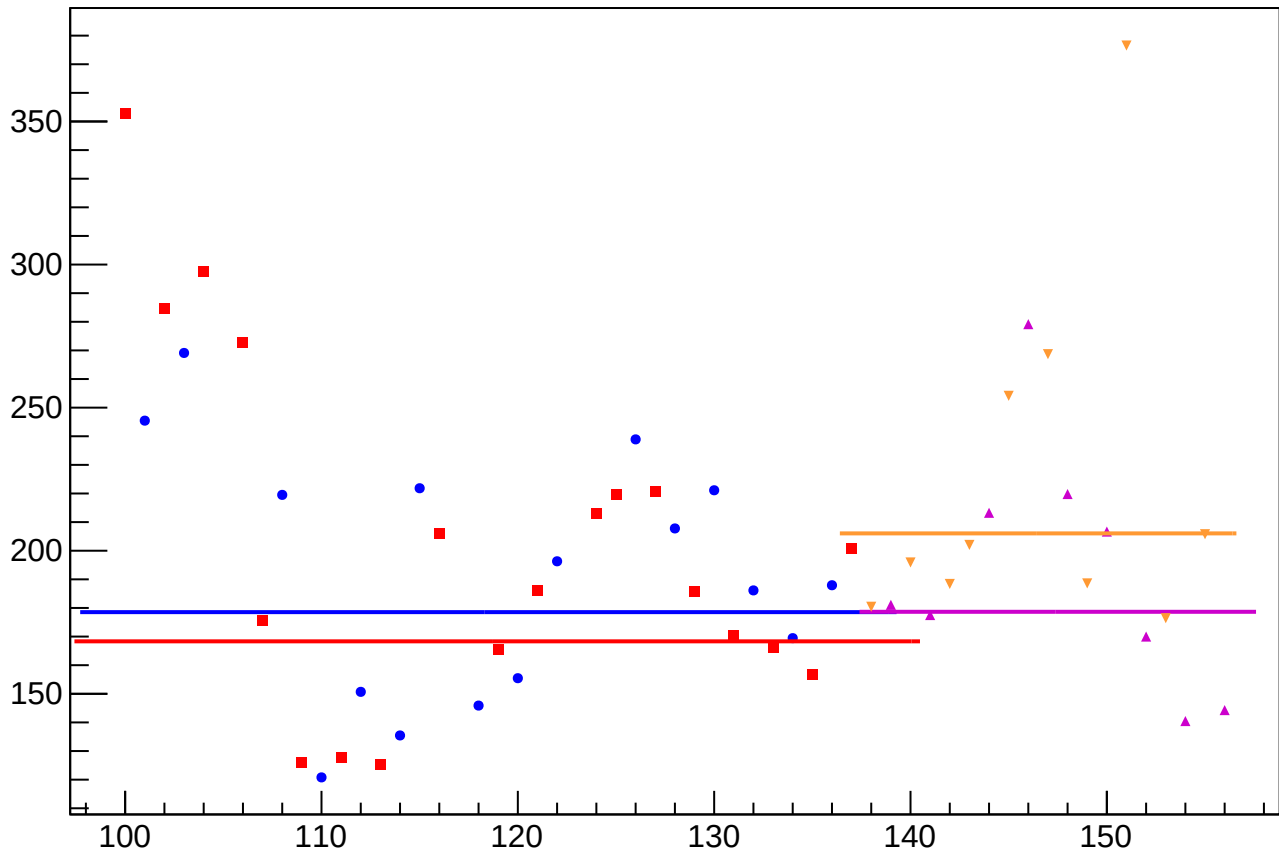
Right: -233.460+/-47.334 χ^2/NDF : 10606.3/34

In: -5822.252+/-48.215 χ^2/NDF : 39588.7/24

Out: -4493.906+/-49.370 χ^2/NDF : 11116.4/28

All: -5173.800+/-34.495 χ^2/NDF : 51075.7/53

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541+/-0.049 χ^2/NDF : 674566.0/15

Left Out: 206.057+/-0.054 χ^2/NDF : 570948.8/9

Right Out: 168.335+/-0.046 χ^2/NDF : 979485.9/18

Left In: 178.657+/-0.047 χ^2/NDF : 584849.9/8

Left: 190.649+/-0.036 χ^2/NDF : 1301435.9/18

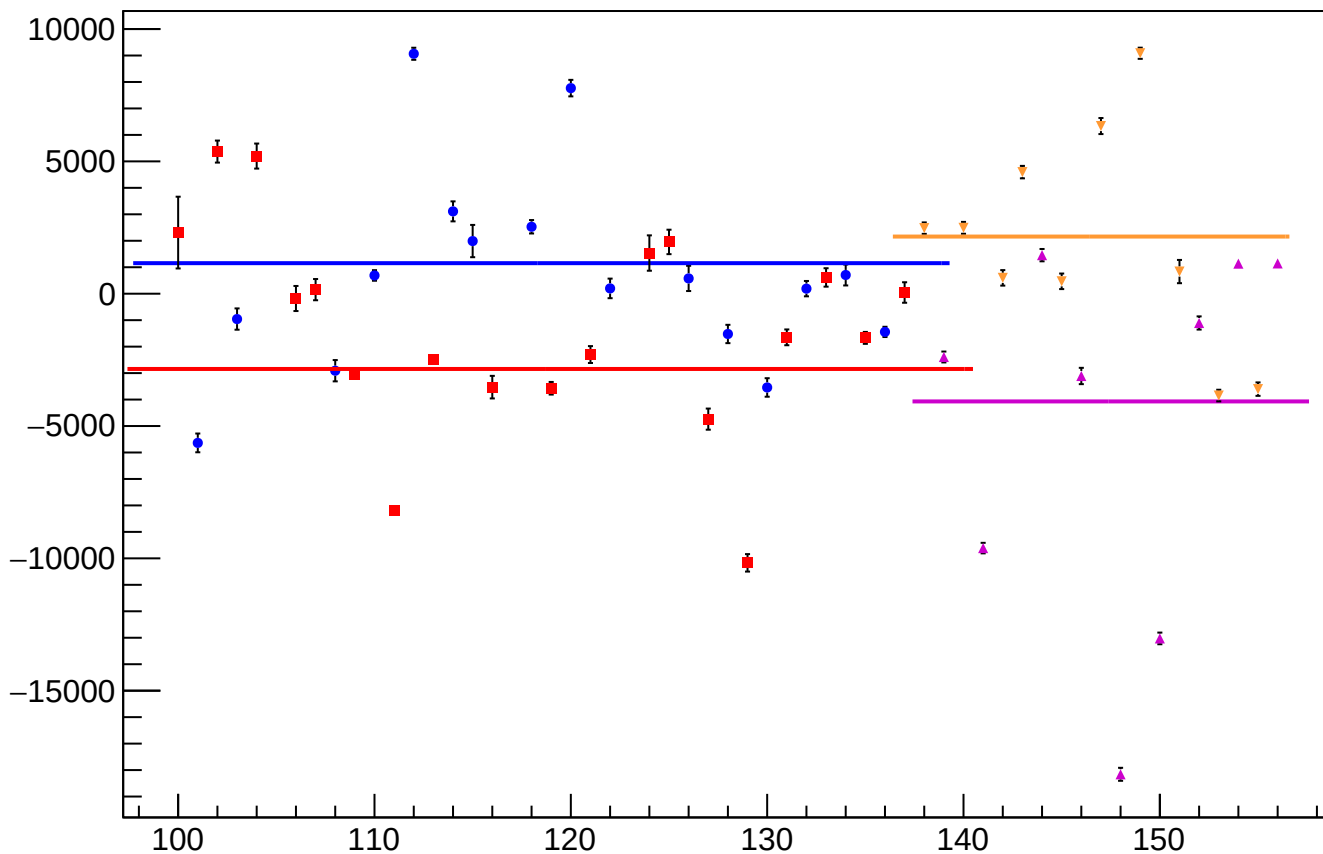
Right: 173.104+/-0.033 χ^2/NDF : 1677198.9/34

In: 178.601+/-0.034 χ^2/NDF : 1259418.9/24

Out: 184.194+/-0.035 χ^2/NDF : 1834944.0/28

All: 181.331+/-0.024 χ^2/NDF : 3107501.0/53

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1153.823 $\pm$ 75.957 χ^2/NDF : 2655.3/15

Left Out: 2159.151 $\pm$ 79.769 χ^2/NDF : 2710.1/9

Right Out: -2843.895 $\pm$ 69.139 χ^2/NDF : 2453.1/18

Left In: -4070.457 $\pm$ 70.672 χ^2/NDF : 8378.1/8

Left: -1330.984 $\pm$ 52.898 χ^2/NDF : 14505.1/18

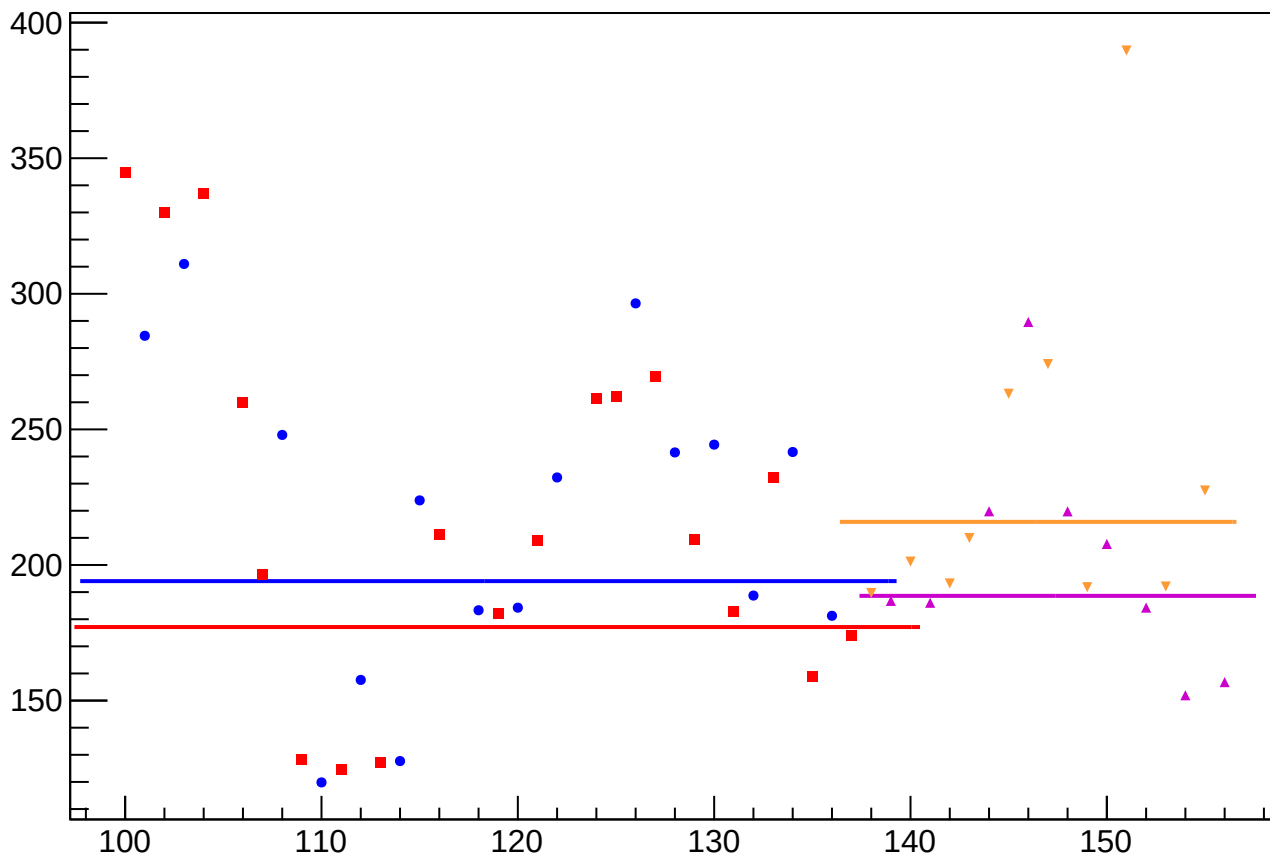
Right: -1032.468 $\pm$ 51.129 χ^2/NDF : 6623.4/34

In: -1646.358 $\pm$ 51.740 χ^2/NDF : 13569.0/24

Out: -697.723 $\pm$ 52.246 χ^2/NDF : 7409.5/28

All: -1176.652 $\pm$ 36.763 χ^2/NDF : 21144.9/53

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 215.905+/-0.056 χ^2/NDF :543029.1/9

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 188.617+/-0.050 χ^2/NDF :463269.2/8

Left: 200.617+/-0.037 χ^2/NDF : 1137420.4/18

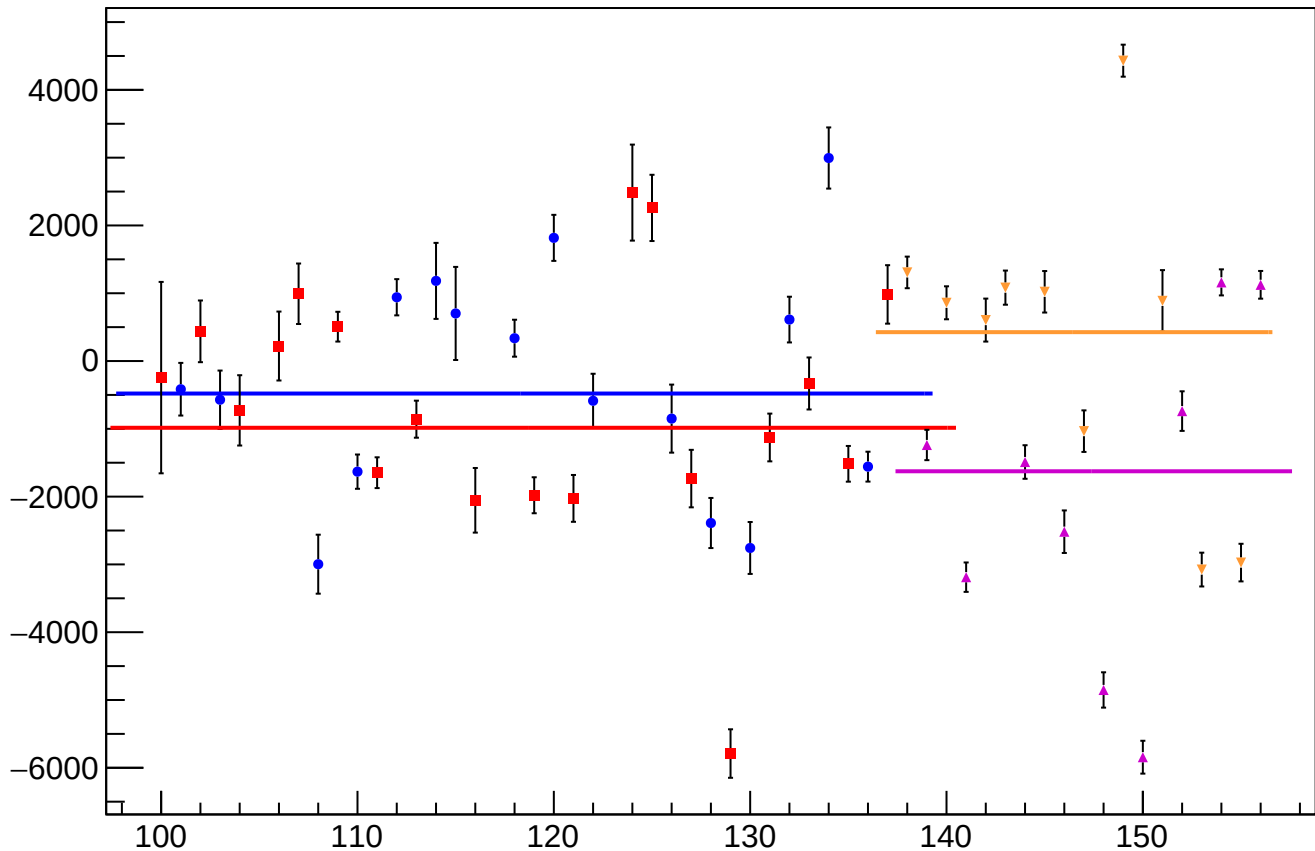
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 191.139+/-0.037 χ^2/NDF :1434546.1/24

Out: 193.755+/-0.037 χ^2/NDF :2172424.4/28

All: 192.434+/-0.026 χ^2/NDF : 3609501.1/53

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302 ± 86.685 $\chi^2/\text{NDF}: 305.4/15$

Left Out: 426.086 ± 86.315 $\chi^2/\text{NDF}: 687.3/9$

Right Out: -984.498 ± 80.945 $\chi^2/\text{NDF}: 398.1/18$

Left In: -1626.108 ± 78.511 $\chi^2/\text{NDF}: 920.0/8$

Left: -696.952 ± 58.079 $\chi^2/\text{NDF}: 1916.6/18$

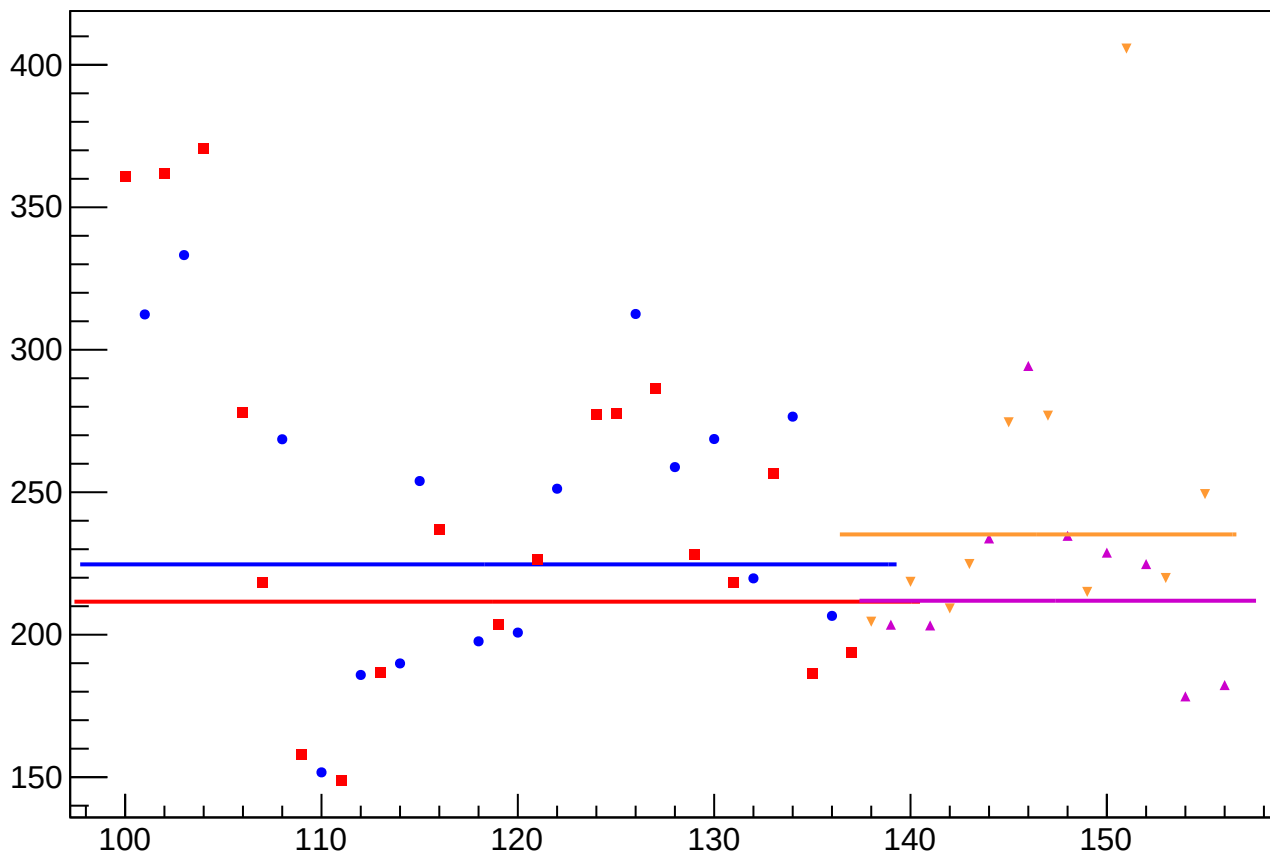
Right: -749.177 ± 59.162 $\chi^2/\text{NDF}: 721.7/34$

In: -1109.308 ± 58.192 $\chi^2/\text{NDF}: 1321.6/24$

Out: -324.444 ± 59.044 $\chi^2/\text{NDF}: 1227.5/28$

All: -722.583 ± 41.446 $\chi^2/\text{NDF}: 2638.7/53$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683+/-0.061 χ^2/NDF : 653193.4/15

Left Out: 235.197+/-0.061 χ^2/NDF : 440435.6/9

Right Out: 211.595+/-0.057 χ^2/NDF : 932902.5/18

Left In: 211.922+/-0.056 χ^2/NDF : 291351.4/8

Left: 222.460+/-0.041 χ^2/NDF : 811366.0/18

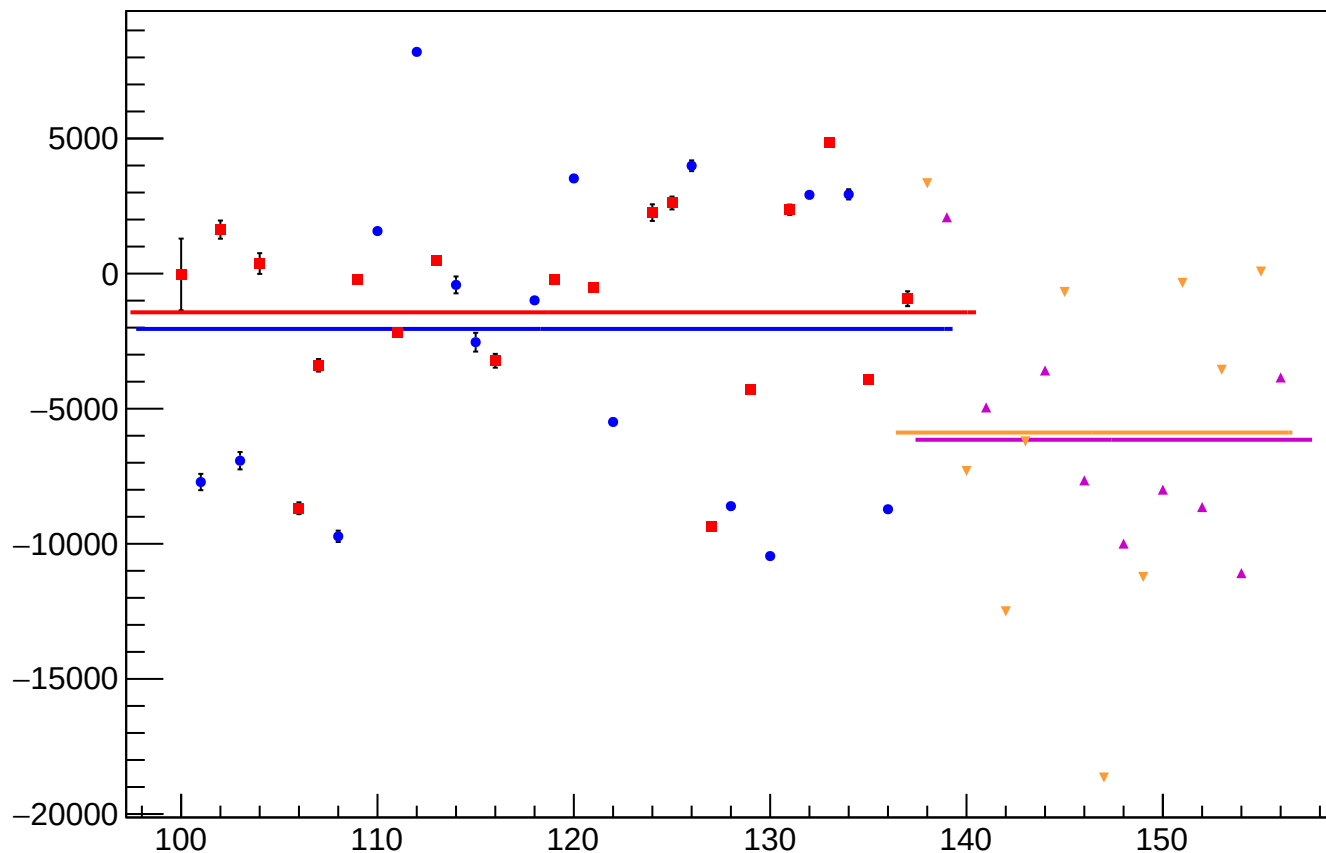
Right: 217.691+/-0.042 χ^2/NDF : 1610450.2/34

In: 217.673+/-0.041 χ^2/NDF : 968353.4/24

Out: 222.639+/-0.042 χ^2/NDF : 1452902.2/28

All: 220.120+/-0.029 χ^2/NDF : 2428433.4/53

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267+/-46.722 χ^2/NDF : 16709.1/15

Left Out: -5882.971+/-41.094 χ^2/NDF : 25581.6/9

Right Out: -1432.909+/-44.729 χ^2/NDF : 6387.8/18

Left In: -6149.103+/-41.877 χ^2/NDF : 8253.7/8

Left: -6013.525+/-29.331 χ^2/NDF : 33855.8/18

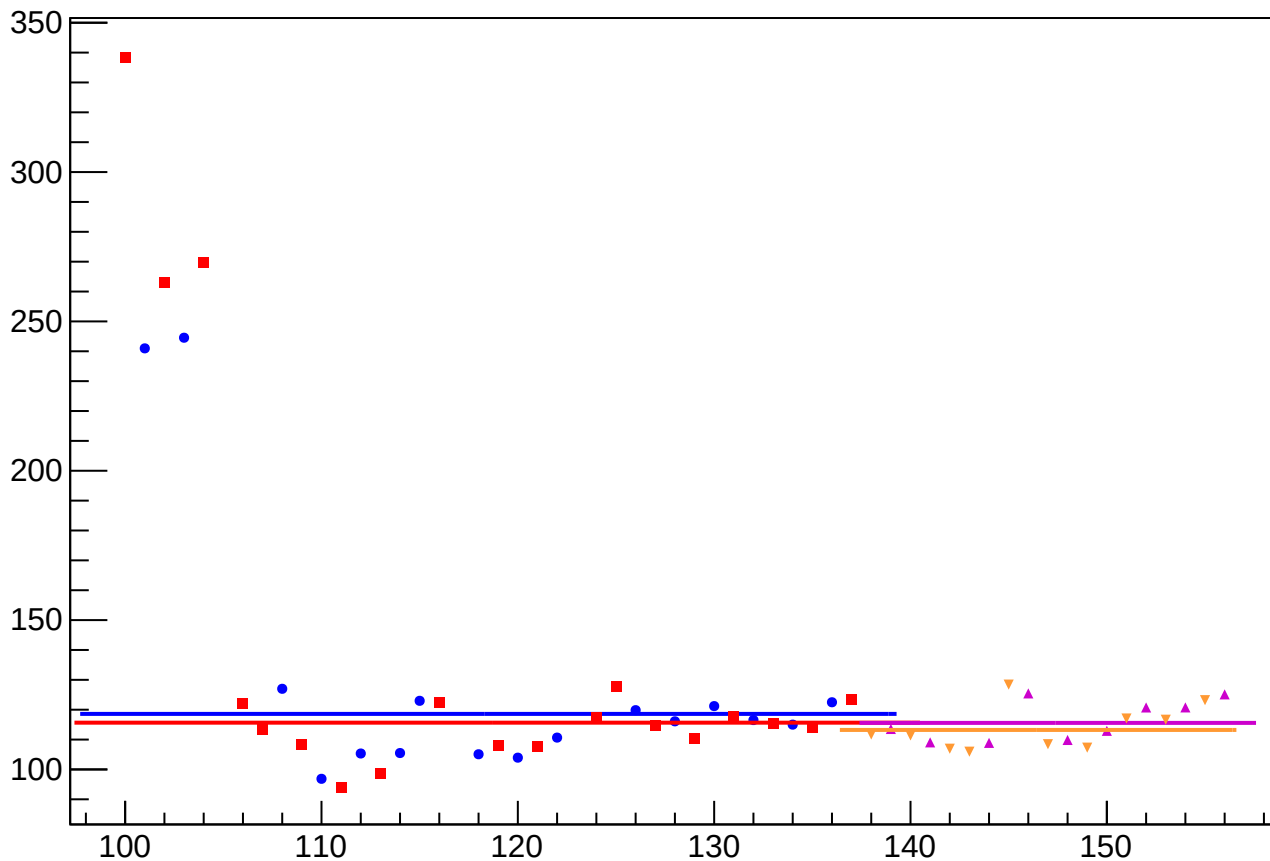
Right: -1726.707+/-32.310 χ^2/NDF : 23187.1/34

In: -4321.821+/-31.184 χ^2/NDF : 29236.8/24

Out: -3846.104+/-30.261 χ^2/NDF : 37337.0/28

All: -4076.819+/-21.717 χ^2/NDF : 66693.6/53

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 118.596 $\pm$ 0.033 χ^2/NDF : 734158.7/15

Left Out: 113.225 $\pm$ 0.029 χ^2/NDF : 54941.0/9

Right Out: 115.660 $\pm$ 0.032 χ^2/NDF : 864206.3/18

Left In: 115.585 $\pm$ 0.030 χ^2/NDF : 45276.8/8

Left: 114.383 $\pm$ 0.021 χ^2/NDF : 103454.9/18

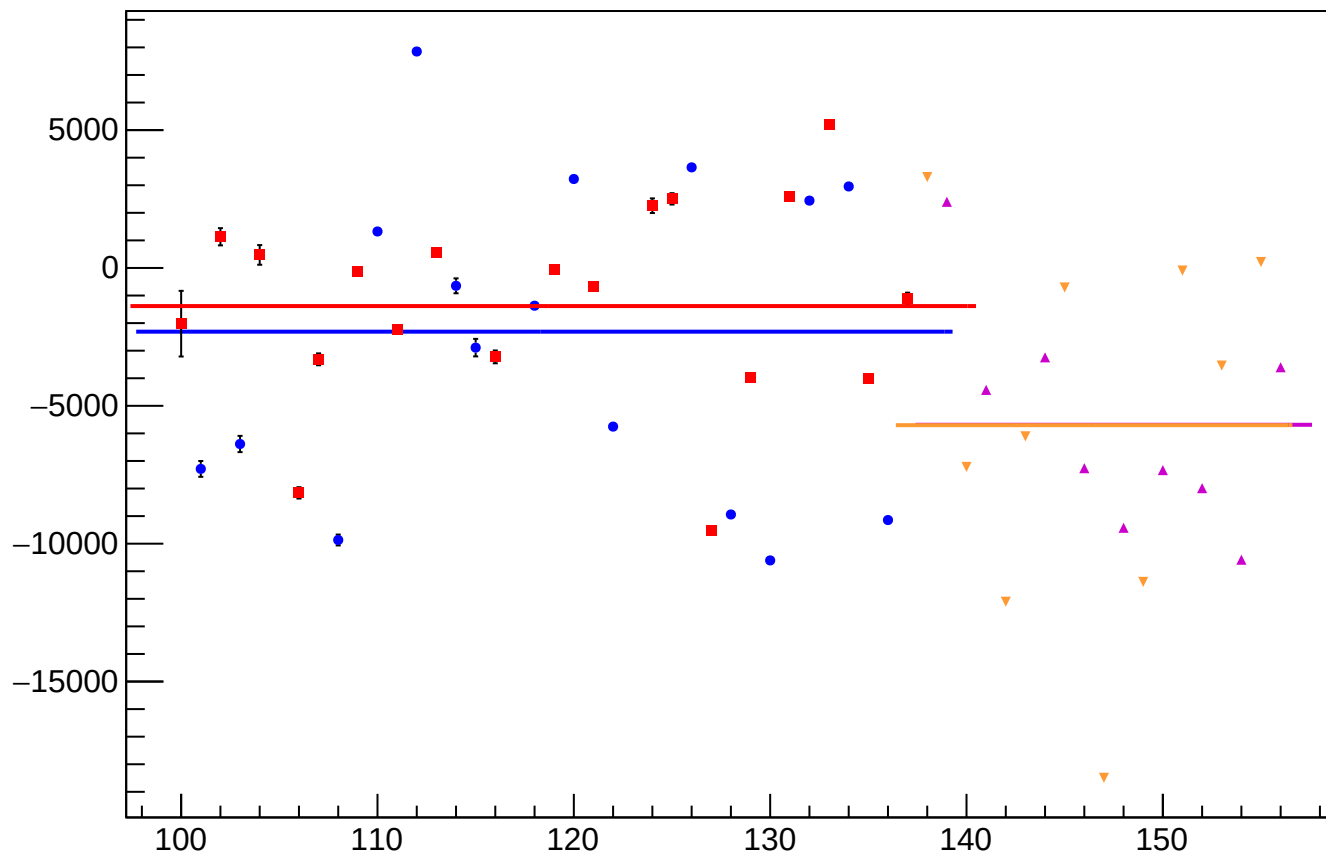
Right: 117.064 $\pm$ 0.023 χ^2/NDF : 1602486.6/34

In: 116.927 $\pm$ 0.022 χ^2/NDF : 784039.6/24

Out: 114.339 $\pm$ 0.021 χ^2/NDF : 922360.4/28

All: 115.594 $\pm$ 0.015 χ^2/NDF : 1713489.6/53

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2310.581 $\pm$ 40.734 χ^2/NDF : 21679.5/15

Left Out: -5701.735 $\pm$ 37.158 χ^2/NDF : 30783.6/9

Right Out: -1382.178 $\pm$ 39.342 χ^2/NDF : 8578.9/18

Left In: -5687.711 $\pm$ 37.683 χ^2/NDF : 9873.1/8

Left: -5694.822 $\pm$ 26.458 χ^2/NDF : 40656.8/18

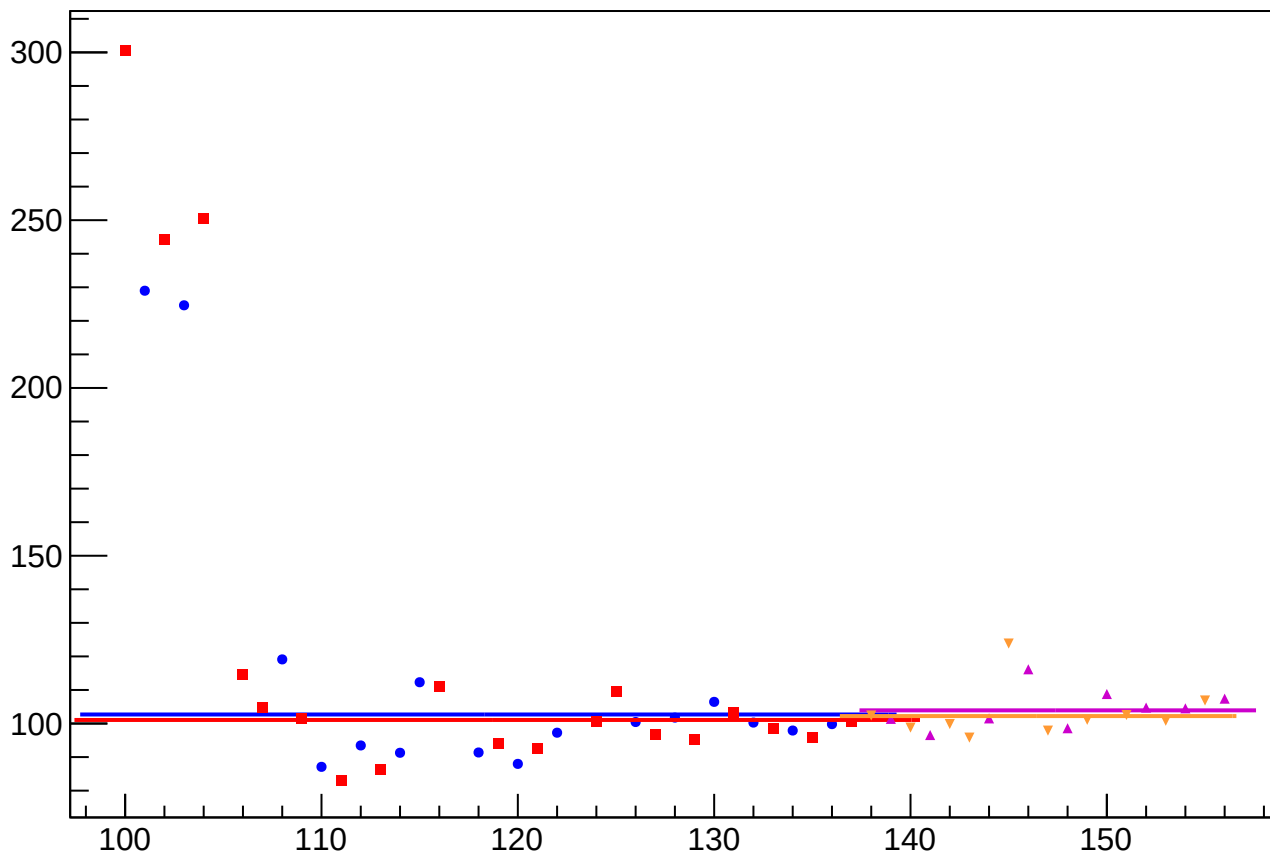
Right: -1830.238 $\pm$ 28.298 χ^2/NDF : 30527.1/34

In: -4130.349 $\pm$ 27.662 χ^2/NDF : 35256.3/24

Out: -3665.191 $\pm$ 27.014 χ^2/NDF : 45734.0/28

All: -3892.255 $\pm$ 19.327 χ^2/NDF : 81135.1/53

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 102.694+/-0.029 χ^2/NDF : 825801.5/15

Left Out: 102.221+/-0.026 χ^2/NDF : 63912.3/9

Right Out: 101.063+/-0.028 χ^2/NDF : 930458.1/18

Left In: 103.927+/-0.027 χ^2/NDF : 41528.6/8

Left: 103.062+/-0.019 χ^2/NDF : 107519.4/18

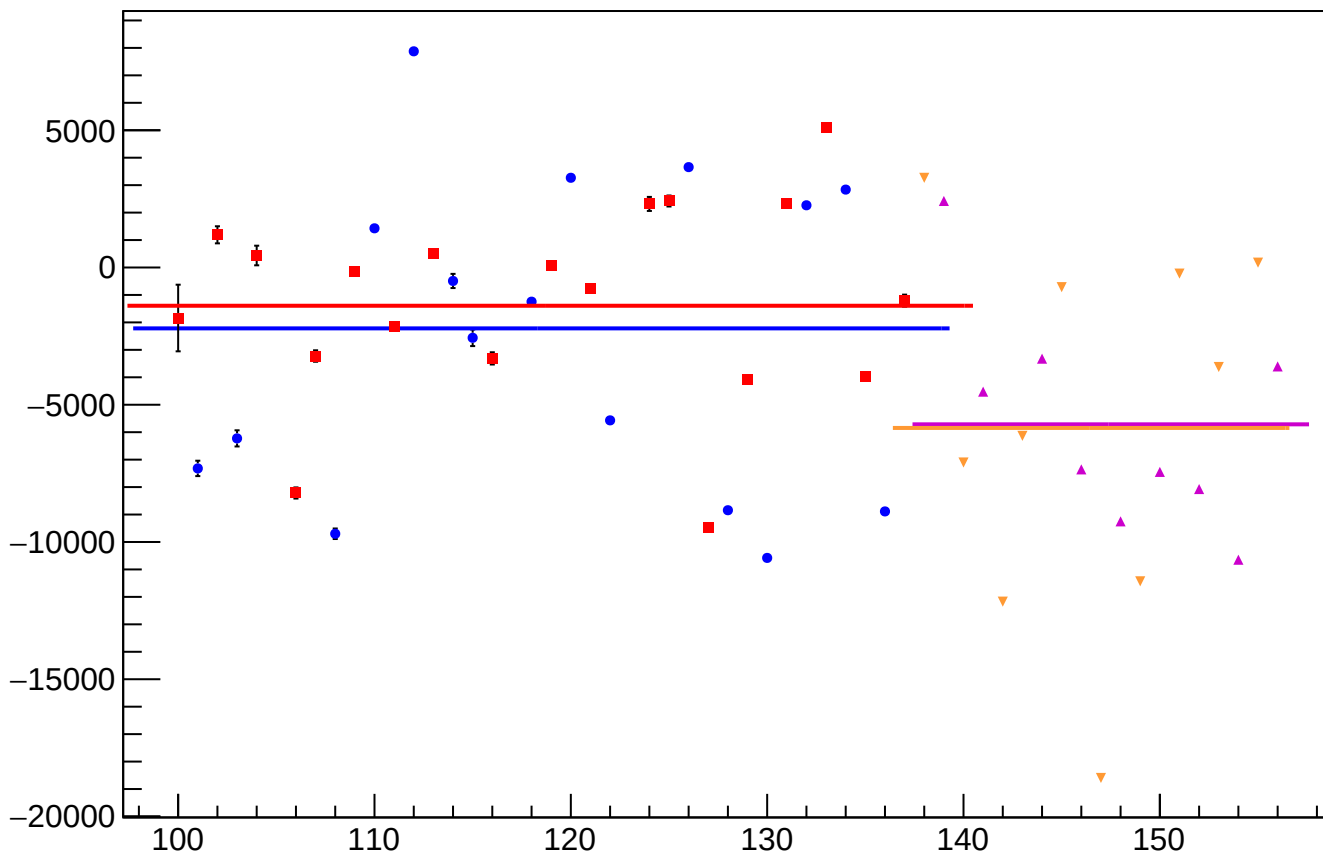
Right: 101.850+/-0.020 χ^2/NDF : 1757917.4/34

In: 103.358+/-0.020 χ^2/NDF : 868317.6/24

Out: 101.675+/-0.019 χ^2/NDF : 995285.3/28

All: 102.497+/-0.014 χ^2/NDF : 1867392.9/53

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2218.049 $\pm$ 39.039 χ^2/NDF : 23040.7/15

Left Out: -5845.255 $\pm$ 36.165 χ^2/NDF : 33283.5/9

Right Out: -1393.557 $\pm$ 37.580 χ^2/NDF : 9152.1/18

Left In: -5713.758 $\pm$ 36.722 χ^2/NDF : 10404.7/8

Left: -5780.512 $\pm$ 25.767 χ^2/NDF : 43694.7/18

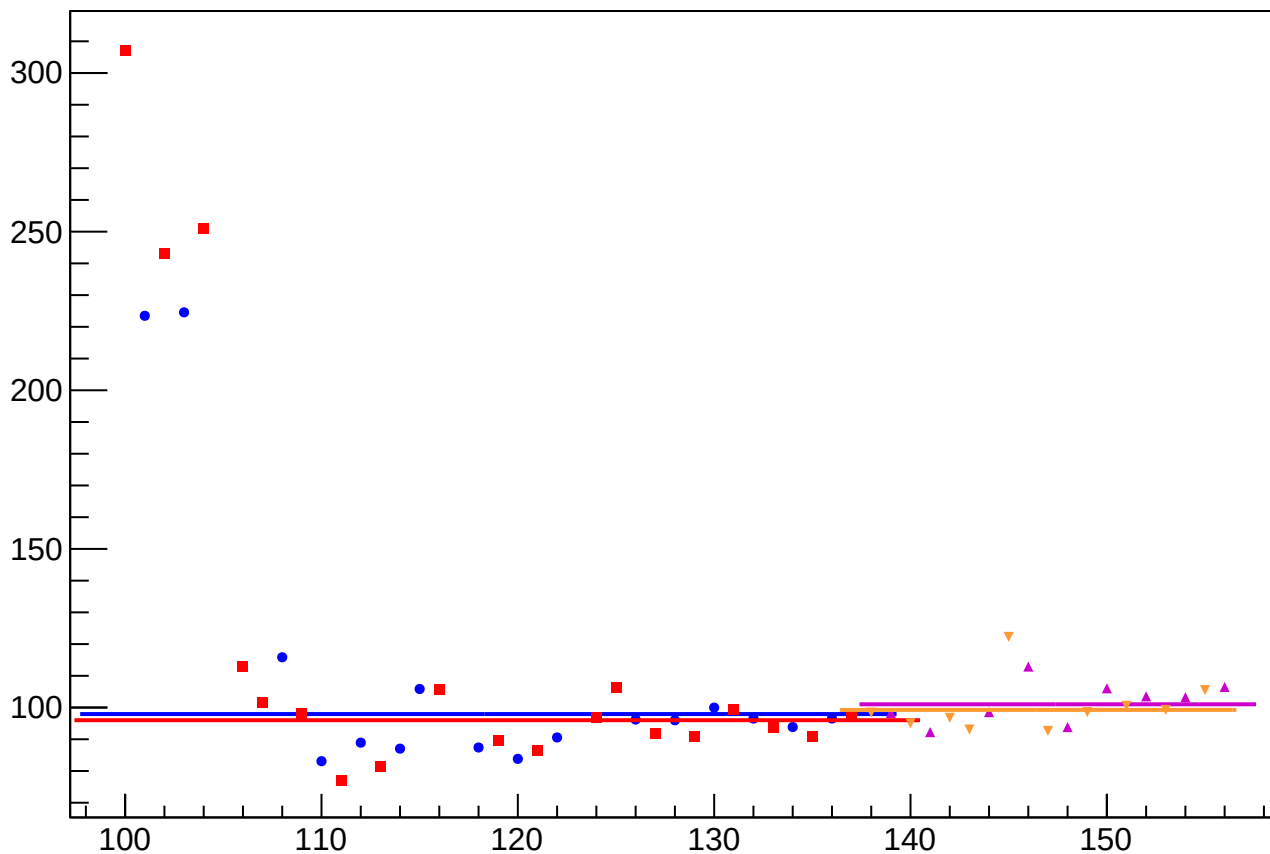
Right: -1790.108 $\pm$ 27.074 χ^2/NDF : 32424.3/34

In: -4072.691 $\pm$ 26.748 χ^2/NDF : 37699.5/24

Out: -3704.800 $\pm$ 26.058 χ^2/NDF : 49721.2/28

All: -3883.940 $\pm$ 18.665 χ^2/NDF : 87517.7/53

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 97.944+/-0.028 χ^2/NDF : 868148.4/15

Left Out: 99.248+/-0.026 χ^2/NDF : 80110.1/9

Right Out: 96.005+/-0.027 χ^2/NDF : 1012287.0/18

Left In: 101.026+/-0.026 χ^2/NDF : 56467.7/8

Left: 100.123+/-0.018 χ^2/NDF : 138956.3/18

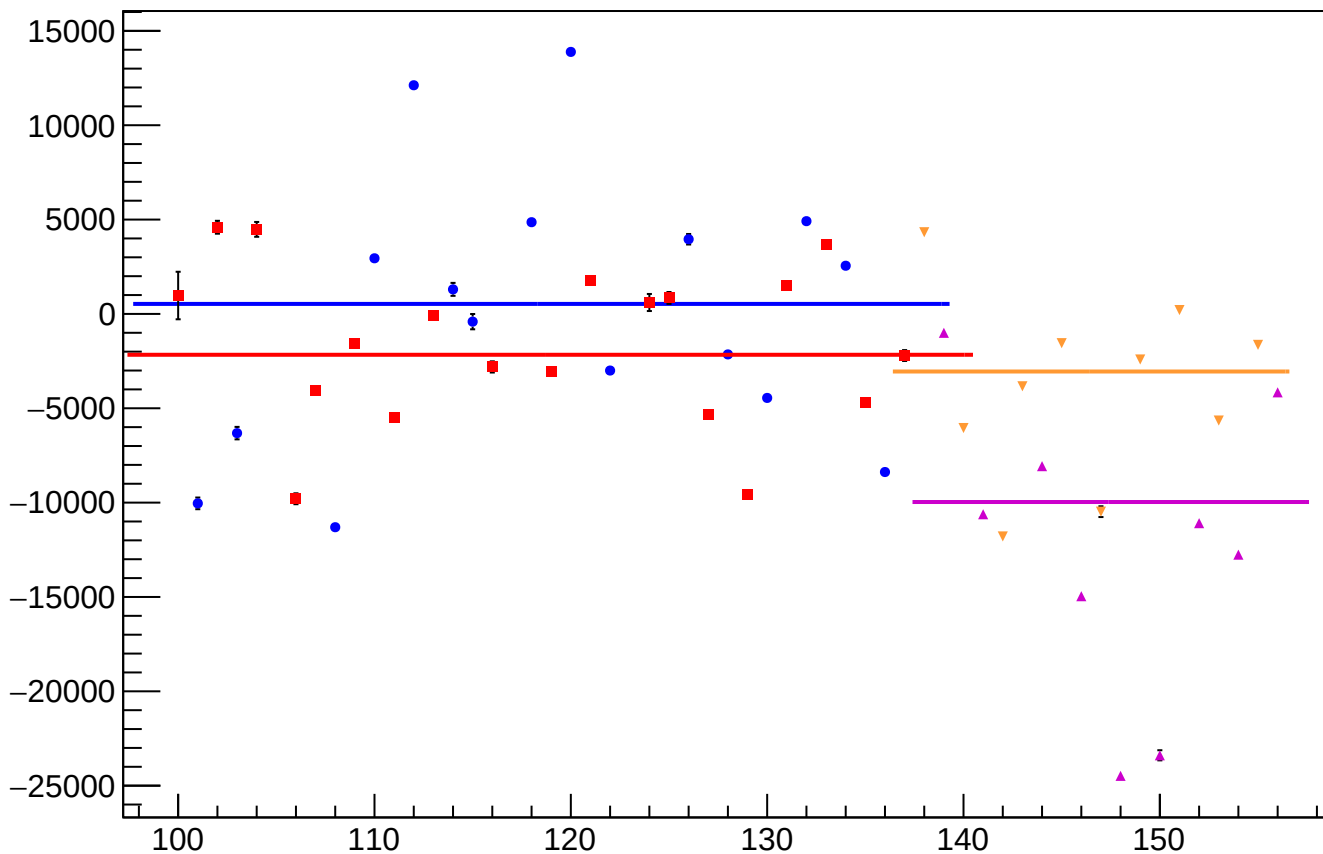
Right: 96.937+/-0.019 χ^2/NDF : 1882996.0/34

In: 99.579+/-0.019 χ^2/NDF : 931230.1/24

Out: 97.689+/-0.018 χ^2/NDF : 1100132.9/28

All: 98.609+/-0.013 χ^2/NDF : 2036486.7/53

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 530.568 $\pm$ 54.855 χ^2/NDF : 18587.6/15

Left Out: -3051.405 $\pm$ 57.032 χ^2/NDF : 5507.1/9

Right Out: -2164.994 $\pm$ 53.458 χ^2/NDF : 4967.1/18

Left In: -9967.759 $\pm$ 59.087 χ^2/NDF : 11279.4/8

Left: -6387.206 $\pm$ 41.035 χ^2/NDF : 23879.6/18

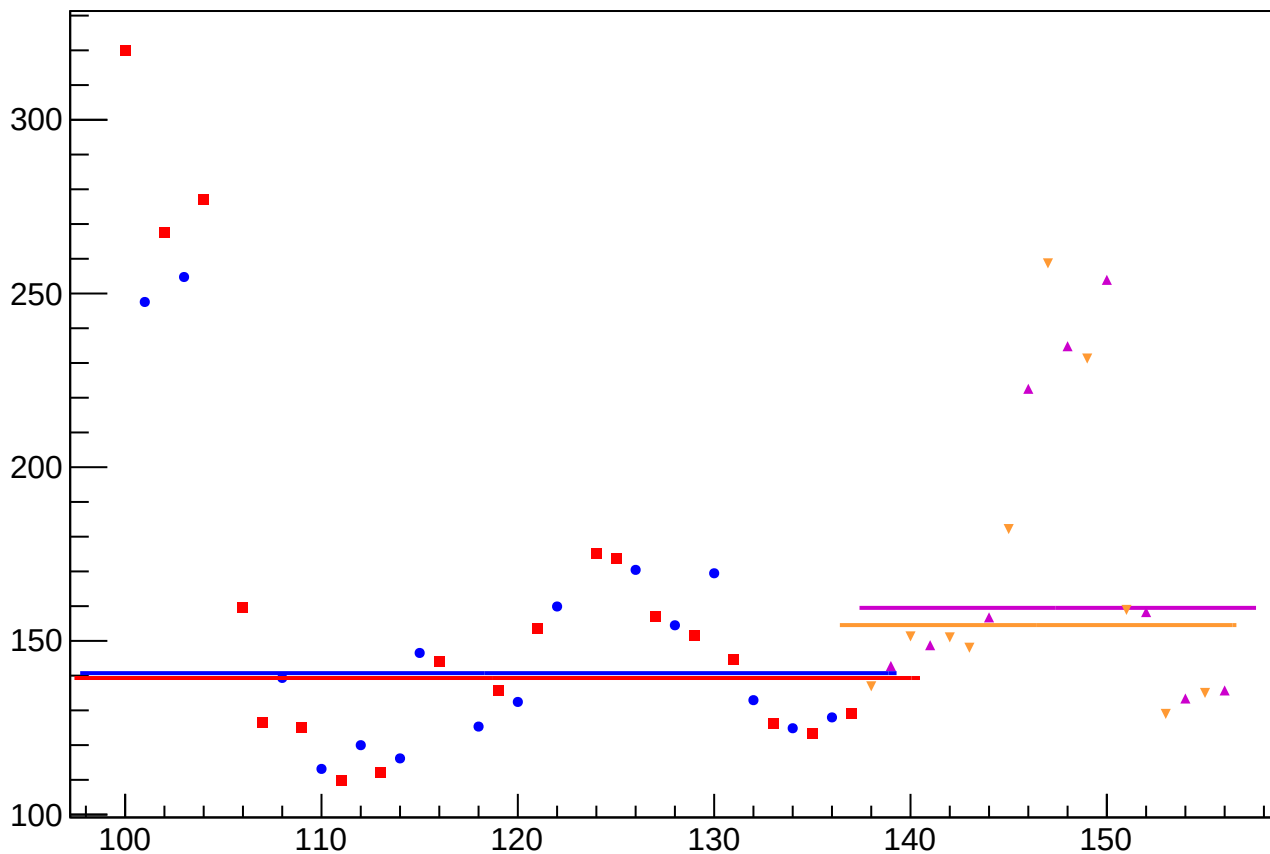
Right: -851.965 $\pm$ 38.285 χ^2/NDF : 24793.2/34

In: -4329.139 $\pm$ 40.201 χ^2/NDF : 46822.2/24

Out: -2579.557 $\pm$ 39.003 χ^2/NDF : 10602.8/28

All: -3427.883 $\pm$ 27.993 χ^2/NDF : 58400.7/53

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 140.715 $\pm$ 0.039 χ^2 /NDF: 675618.7/15

Left Out: 154.552 $\pm$ 0.040 χ^2 /NDF: 614600.8/9

Right Out: 139.317 $\pm$ 0.038 χ^2 /NDF: 802317.0/18

Left In: 159.507 $\pm$ 0.042 χ^2 /NDF: 703795.1/8

Left: 156.942 $\pm$ 0.029 χ^2 /NDF: 1325677.6/18

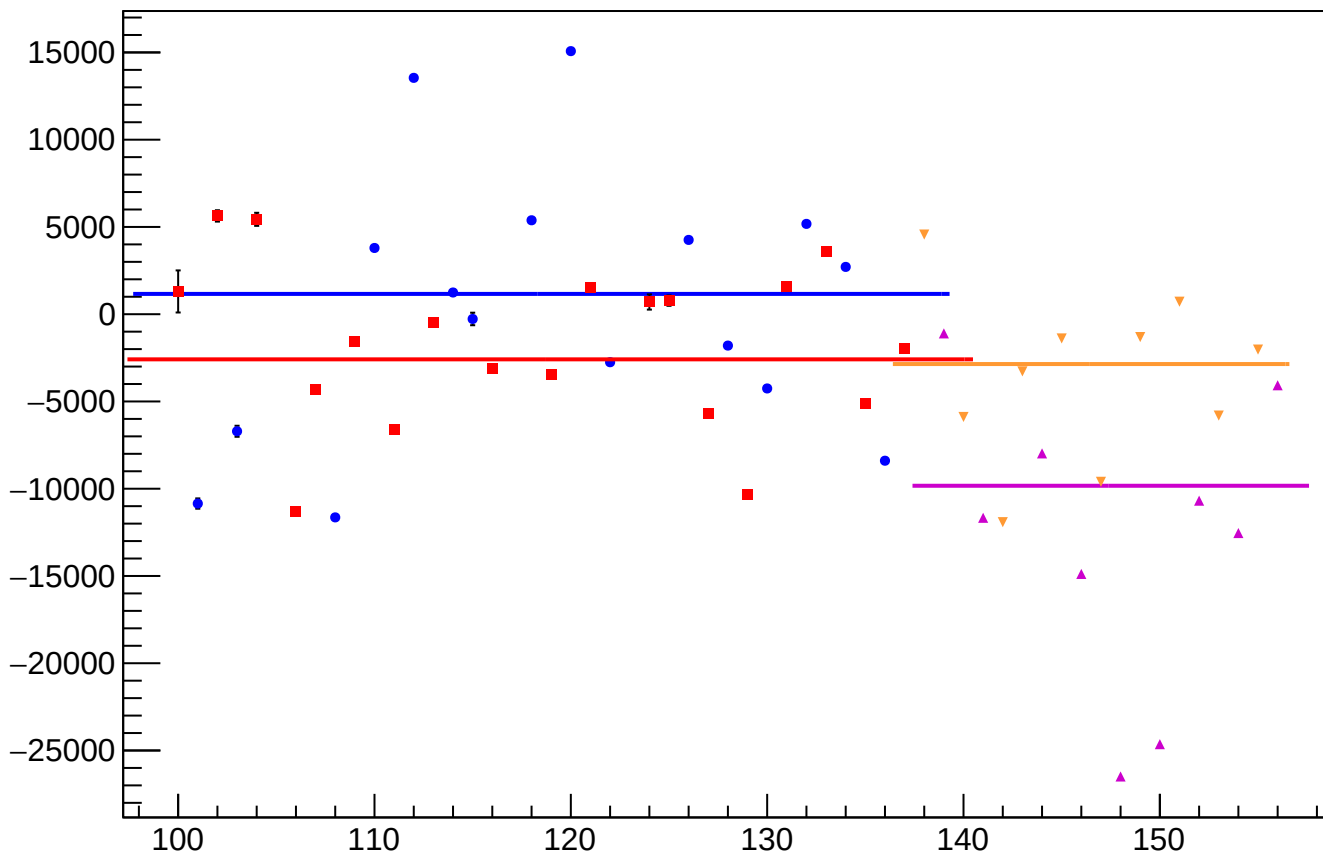
Right: 139.998 $\pm$ 0.027 χ^2 /NDF: 1478602.2/34

In: 149.414 $\pm$ 0.028 χ^2 /NDF: 1488063.8/24

Out: 146.442 $\pm$ 0.028 χ^2 /NDF: 1492886.5/28

All: 147.883 $\pm$ 0.020 χ^2 /NDF: 2986580.4/53

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1162.980+/-45.930 χ^2/NDF : 30754.3/15

Left Out: -2856.227+/-50.375 χ^2/NDF : 7263.2/9

Right Out: -2586.755+/-44.256 χ^2/NDF : 8099.7/18

Left In: -9830.535+/-52.210 χ^2/NDF : 15130.3/8

Left: -6218.707+/-36.252 χ^2/NDF : 31634.7/18

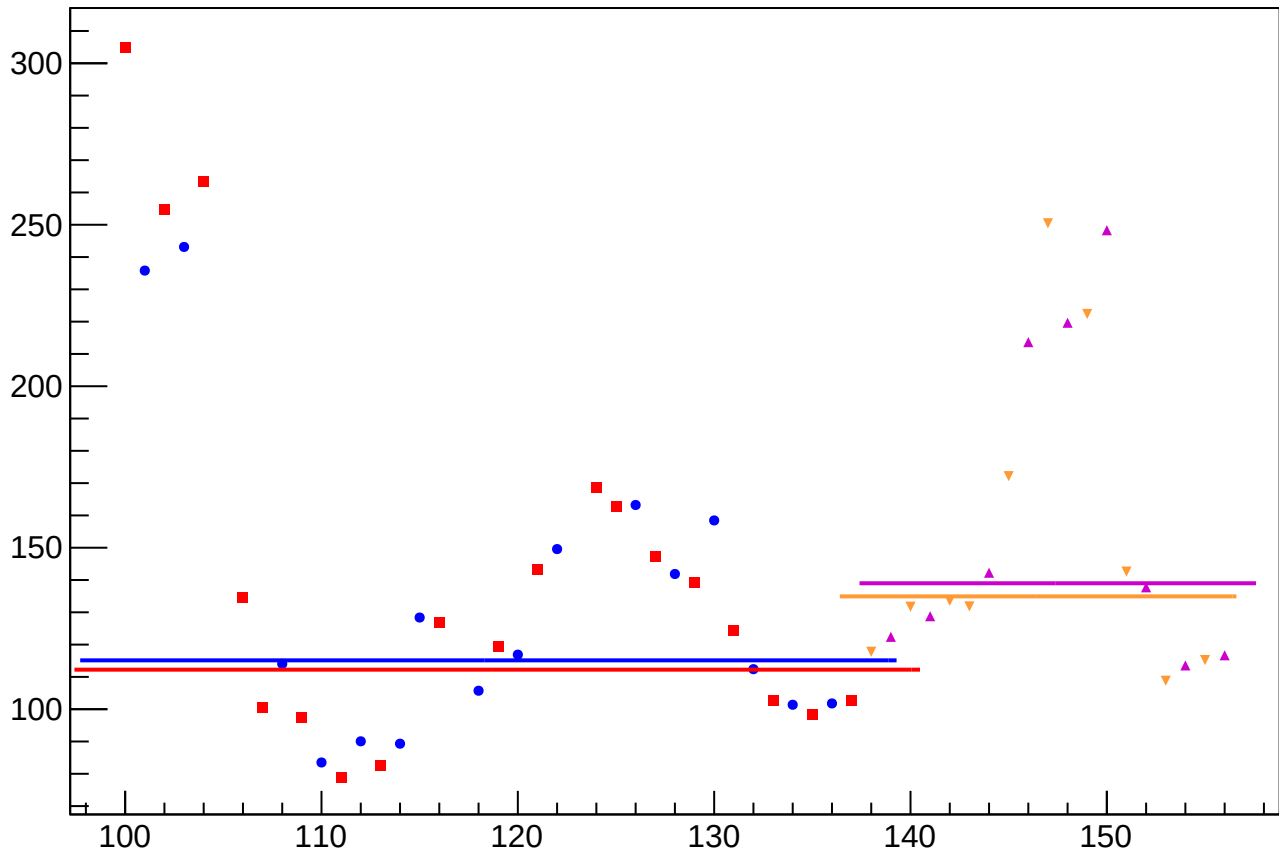
Right: -781.454+/-31.869 χ^2/NDF : 42310.2/34

In: -3633.210+/-34.485 χ^2/NDF : 70878.8/24

Out: -2704.139+/-33.248 χ^2/NDF : 15379.1/28

All: -3151.712+/-23.935 χ^2/NDF : 86634.0/53

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 115.125+/-0.032 χ^2/NDF : 1112987.2/15

Left Out: 134.932+/-0.036 χ^2/NDF : 859217.1/9

Right Out: 112.241+/-0.031 χ^2/NDF : 1328156.6/18

Left In: 138.993+/-0.037 χ^2/NDF : 963484.7/8

Left: 136.890+/-0.026 χ^2/NDF : 1828967.2/18

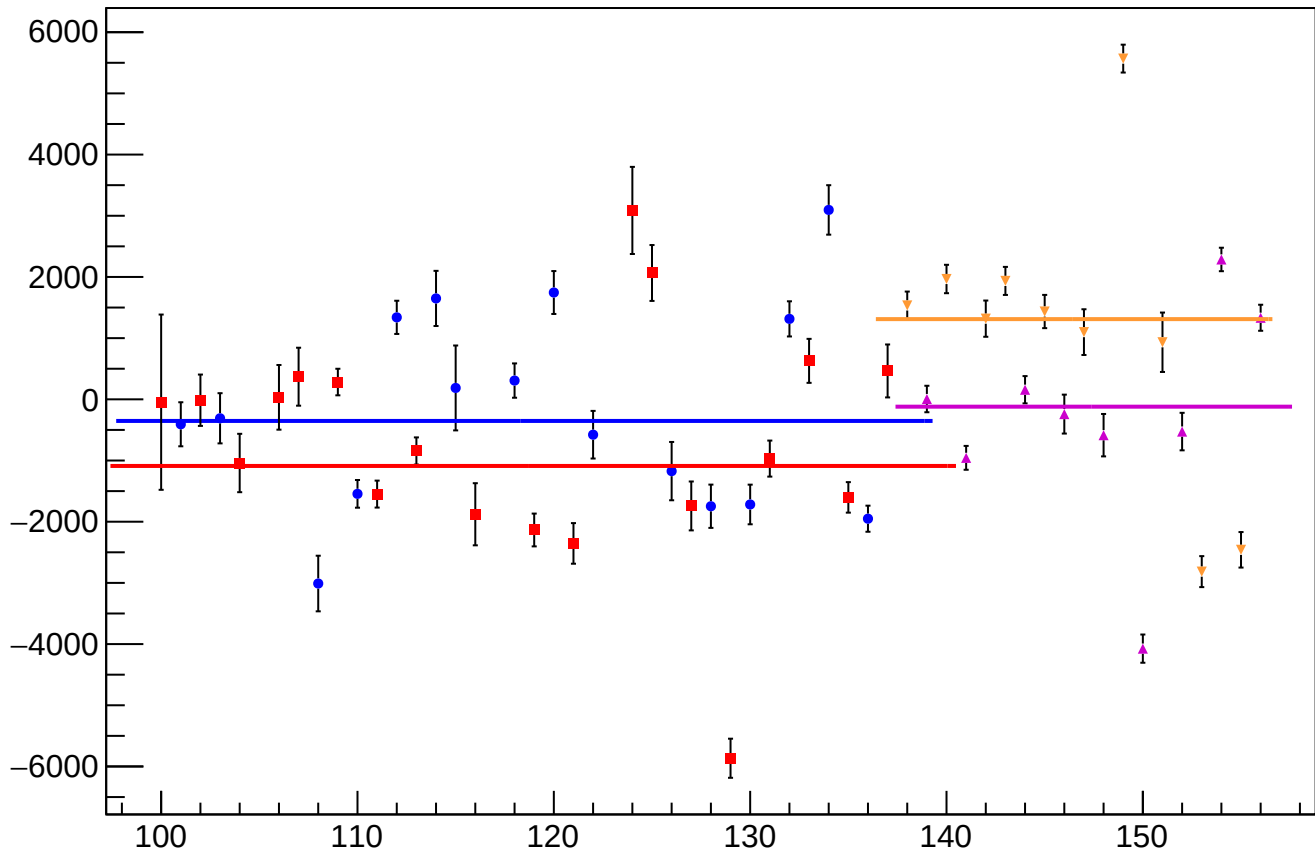
Right: 113.630+/-0.023 χ^2/NDF : 2445233.6/34

In: 125.538+/-0.024 χ^2/NDF : 2312092.3/24

Out: 122.126+/-0.024 χ^2/NDF : 2416402.4/28

All: 123.770+/-0.017 χ^2/NDF : 4738645.1/53

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -353.129 ± 82.136 $\chi^2/\text{NDF}: 361.8/15$

Left Out: 1310.857 ± 84.470 $\chi^2/\text{NDF}: 801.2/9$

Right Out: -1088.752 ± 76.444 $\chi^2/\text{NDF}: 447.2/18$

Left In: -119.918 ± 77.915 $\chi^2/\text{NDF}: 522.0/8$

Left: 537.801 ± 57.272 $\chi^2/\text{NDF}: 1478.2/18$

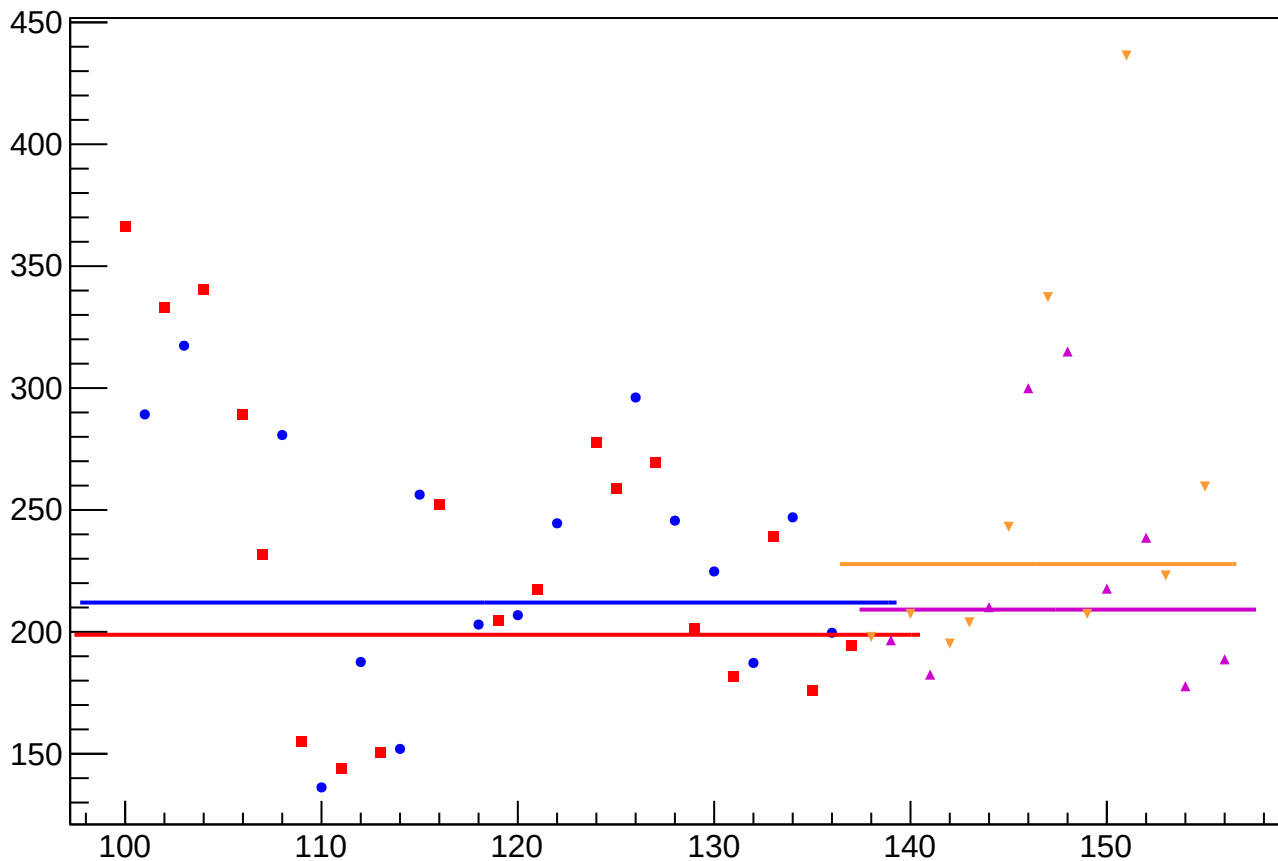
Right: -747.310 ± 55.958 $\chi^2/\text{NDF}: 852.0/34$

In: -230.377 ± 56.527 $\chi^2/\text{NDF}: 888.0/24$

Out: -8.344 ± 56.680 $\chi^2/\text{NDF}: 1692.1/28$

All: -119.660 ± 40.025 $\chi^2/\text{NDF}: 2587.8/53$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 212.027+/-0.058 χ^2/NDF : 690358.0/15

Left Out: 227.815+/-0.060 χ^2/NDF : 684262.9/9

Right Out: 198.809+/-0.054 χ^2/NDF : 974928.4/18

Left In: 209.139+/-0.055 χ^2/NDF : 487115.1/8

Left: 217.724+/-0.040 χ^2/NDF : 1224205.6/18

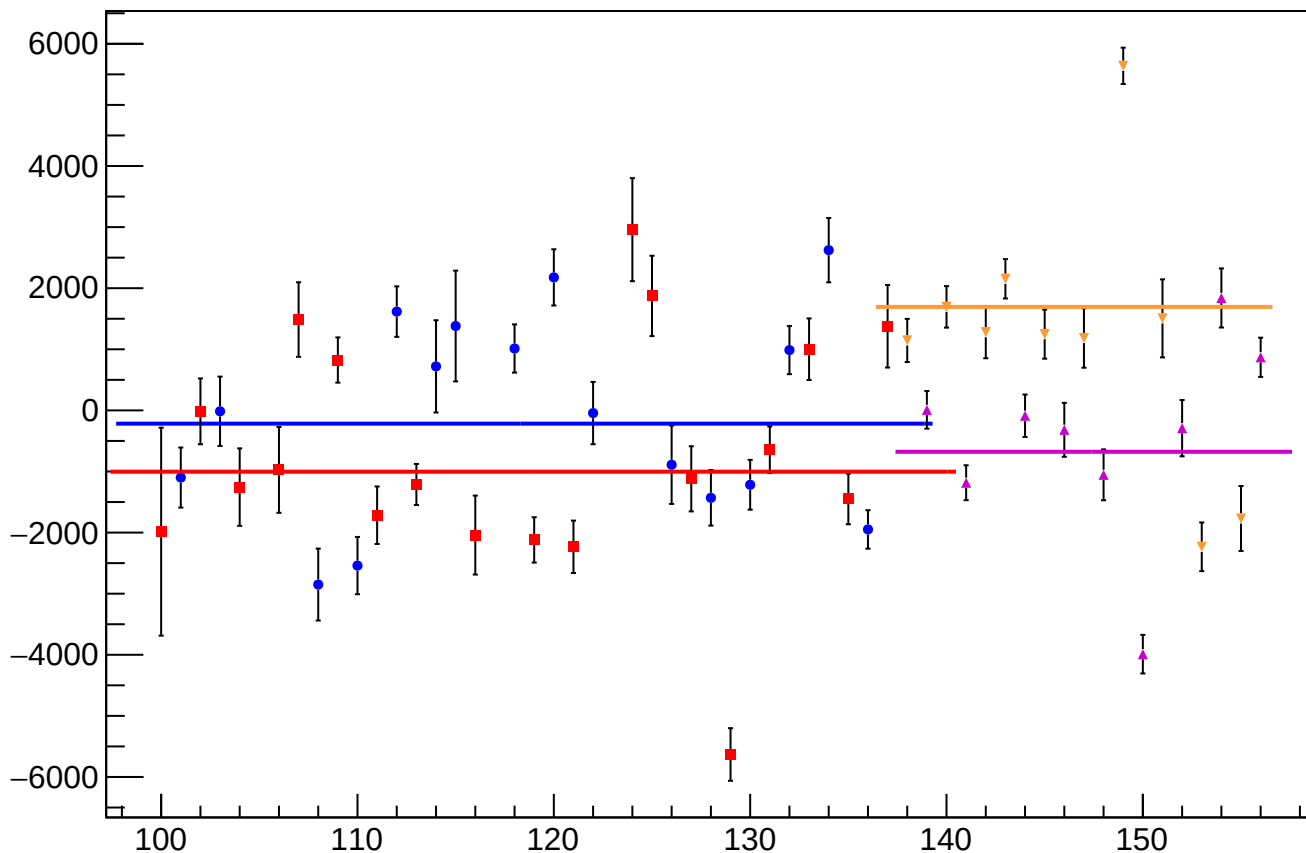
Right: 204.945+/-0.040 χ^2/NDF : 1693041.6/34

In: 210.507+/-0.040 χ^2/NDF : 1178775.2/24

Out: 211.869+/-0.040 χ^2/NDF : 1788841.1/28

All: 211.186+/-0.028 χ^2/NDF : 2968195.5/53

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -216.948+/-117.887 χ^2/NDF : 192.2/15

Left Out: 1694.304+/-123.288 χ^2/NDF : 323.6/9

Right Out: -1003.049+/-113.111 χ^2/NDF : 254.3/18

Left In: -677.161+/-118.891 χ^2/NDF : 173.5/8

Left: 465.530+/-85.581 χ^2/NDF : 688.8/18

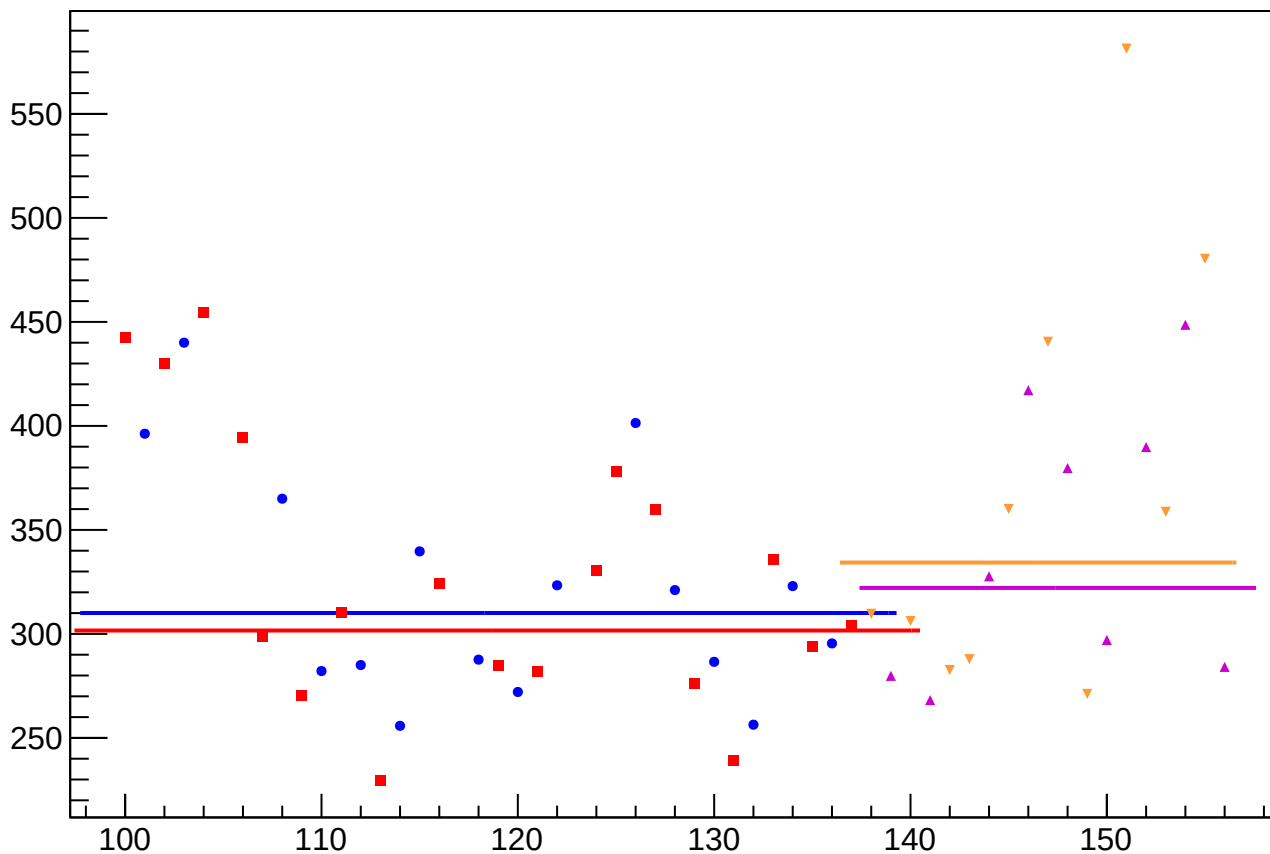
Right: -626.246+/-81.618 χ^2/NDF : 469.7/34

In: -445.104+/-83.711 χ^2/NDF : 373.3/24

Out: 229.720+/-83.347 χ^2/NDF : 837.8/28

All: -106.221+/-59.064 χ^2/NDF : 1243.7/53

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 310.062 ± 0.083 $\chi^2/\text{NDF}: 323283.5/15$

Left Out: 334.314 ± 0.087 $\chi^2/\text{NDF}: 745947.1/9$

Right Out: 301.637 ± 0.080 $\chi^2/\text{NDF}: 519888.9/18$

Left In: 322.110 ± 0.084 $\chi^2/\text{NDF}: 461222.7/8$

Left: 327.990 ± 0.061 $\chi^2/\text{NDF}: 1217323.2/18$

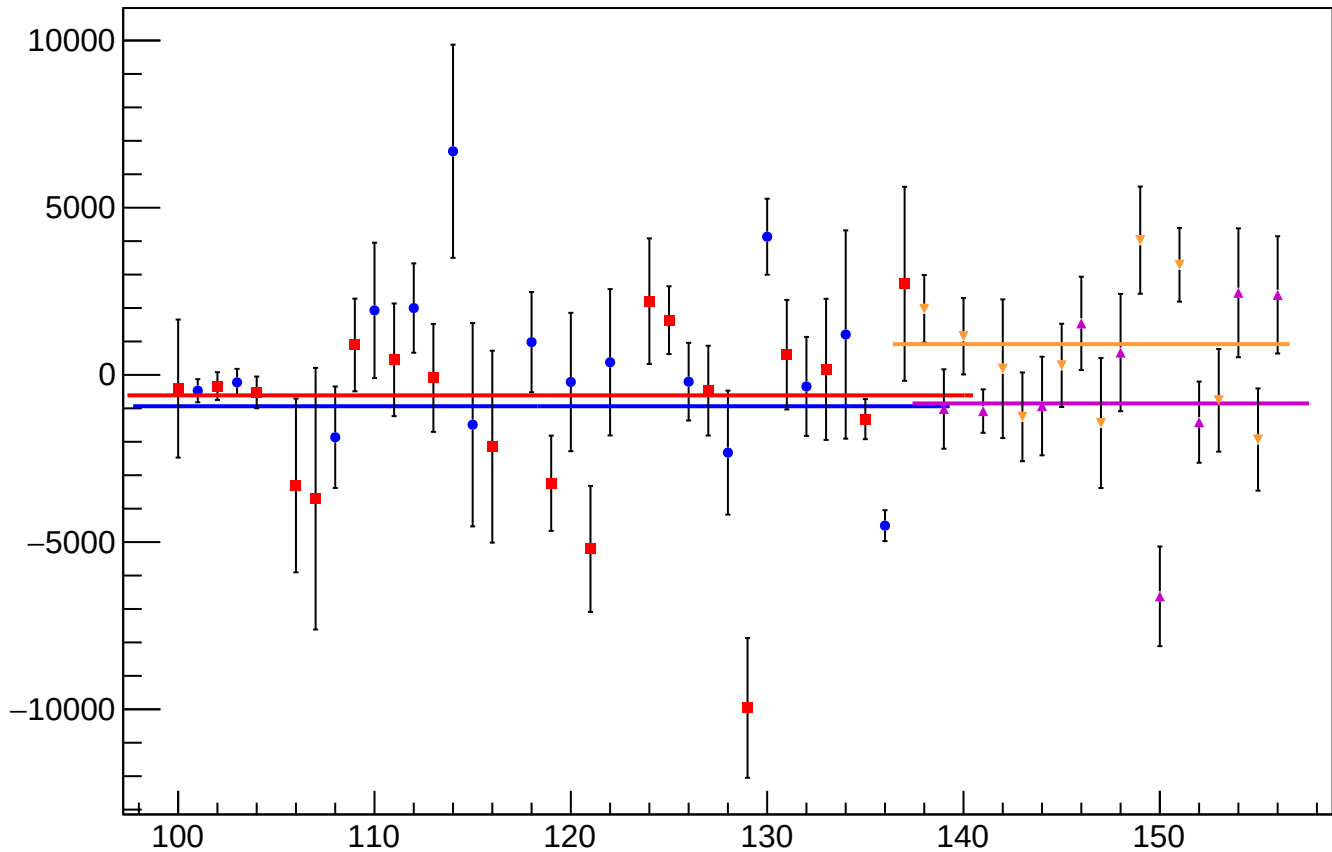
Right: 305.675 ± 0.058 $\chi^2/\text{NDF}: 848490.9/34$

In: 316.035 ± 0.059 $\chi^2/\text{NDF}: 794862.9/24$

Out: 316.571 ± 0.059 $\chi^2/\text{NDF}: 1342121.7/28$

All: 316.304 ± 0.042 $\chi^2/\text{NDF}: 2137025.8/53$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -936.949 $\pm$ 204.717 χ^2/NDF : 101.2/15

Left Out: 920.085 $\pm$ 425.684 χ^2/NDF : 18.8/9

Right Out: -611.668 $\pm$ 233.144 χ^2/NDF : 44.1/18

Left In: -853.465 $\pm$ 404.874 χ^2/NDF : 25.4/8

Left: -11.100 $\pm$ 293.370 χ^2/NDF : 53.3/18

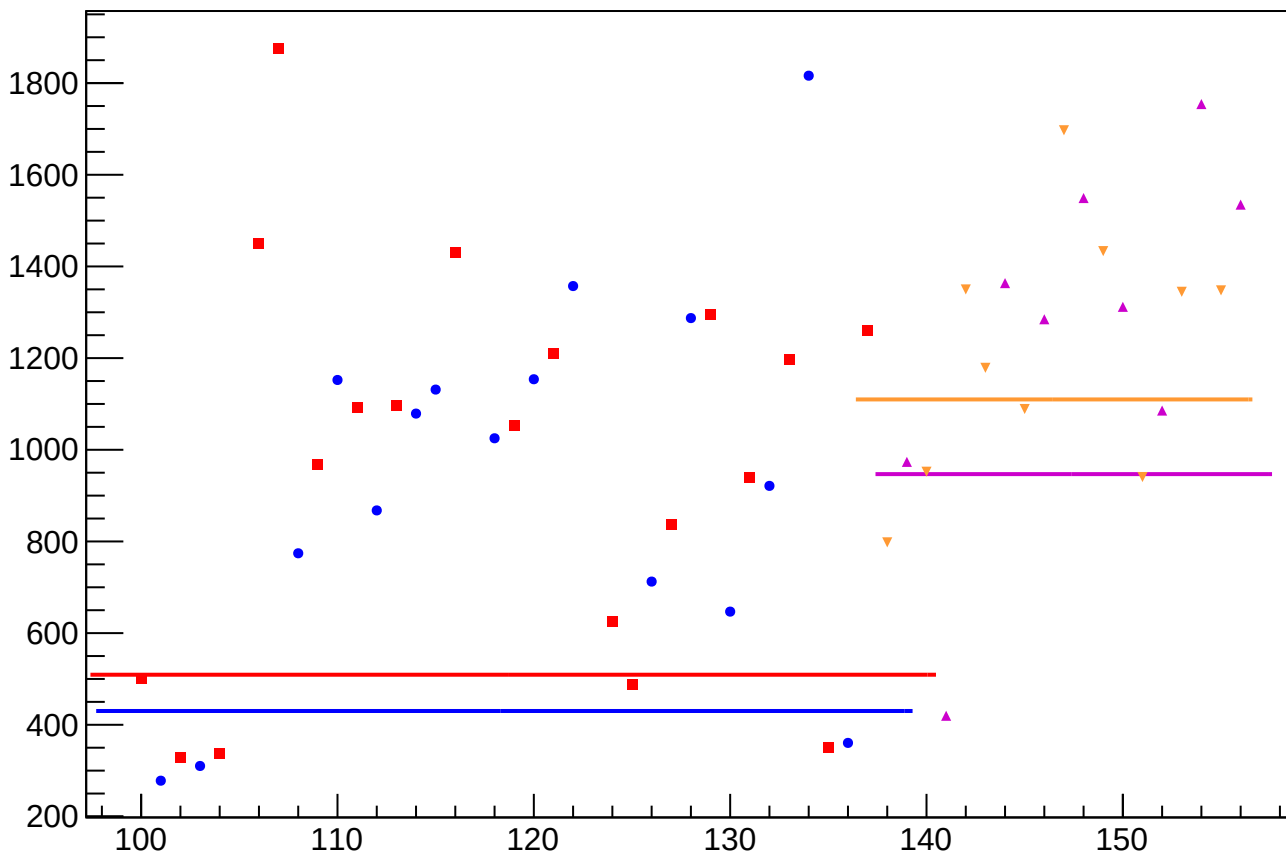
Right: -795.339 $\pm$ 153.831 χ^2/NDF : 146.4/34

In: -919.951 $\pm$ 182.691 χ^2/NDF : 126.7/24

Out: -258.216 $\pm$ 204.484 χ^2/NDF : 72.8/28

All: -626.213 $\pm$ 136.238 χ^2/NDF : 205.3/53

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 430.110+/-0.145 χ^2/NDF : 3521861.8/15

Left Out: 1109.843+/-0.301 χ^2/NDF : 667388.4/9

Right Out: 509.236+/-0.165 χ^2/NDF : 3673425.8/18

Left In: 946.919+/-0.286 χ^2/NDF : 2552029.2/8

Left: 1024.301+/-0.207 χ^2/NDF : 3373240.3/18

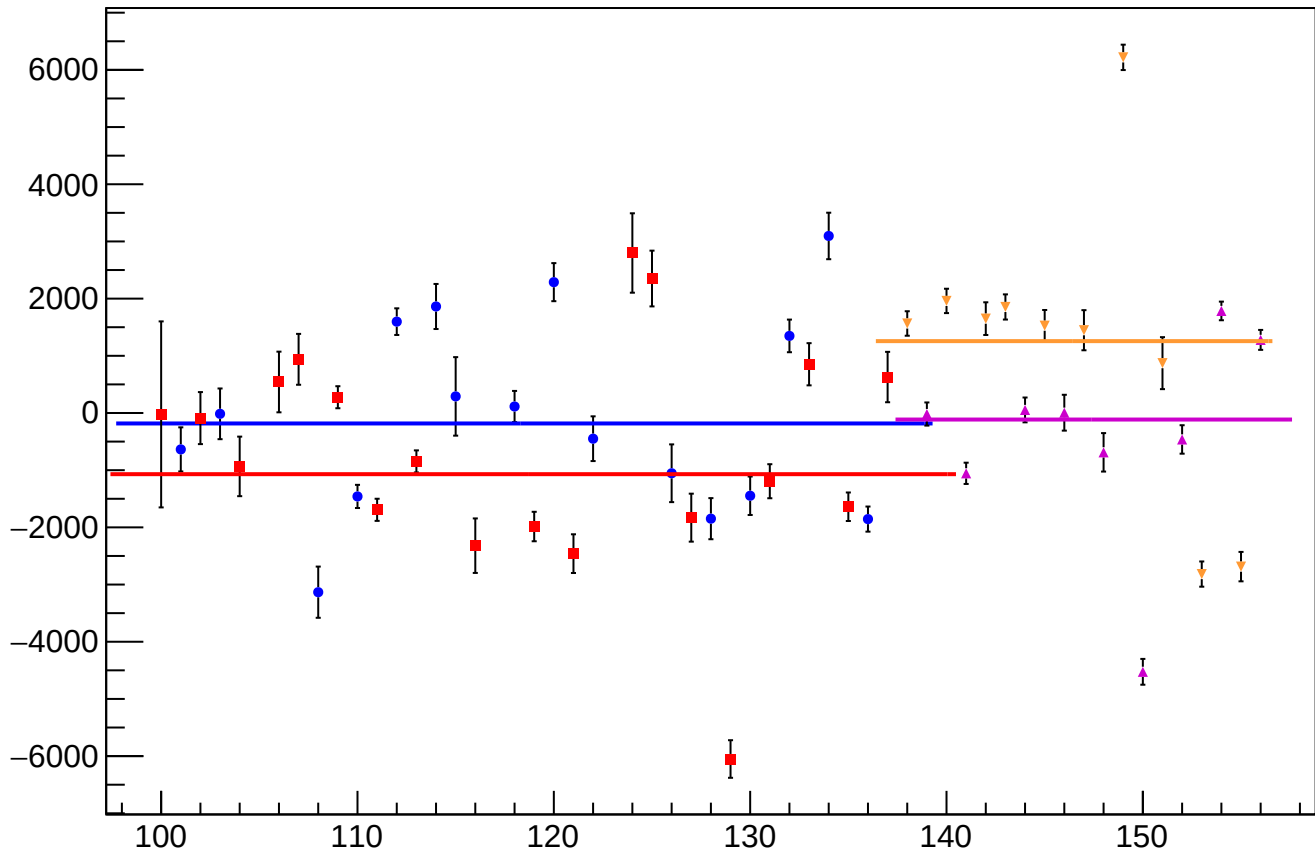
Right: 464.557+/-0.109 χ^2/NDF : 7325362.7/34

In: 535.336+/-0.129 χ^2/NDF : 8669122.8/24

Out: 647.826+/-0.145 χ^2/NDF : 7403506.3/28

All: 585.270+/-0.096 χ^2/NDF : 16409216.7/53

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -183.020 ± 79.863 χ^2/NDF : 417.7/15

Left Out: 1256.709 ± 79.310 χ^2/NDF : 1100.4/9

Right Out: -1069.729 ± 73.060 χ^2/NDF : 492.3/18

Left In: -114.456 ± 70.708 χ^2/NDF : 613.5/8

Left: 492.766 ± 52.778 χ^2/NDF : 1880.4/18

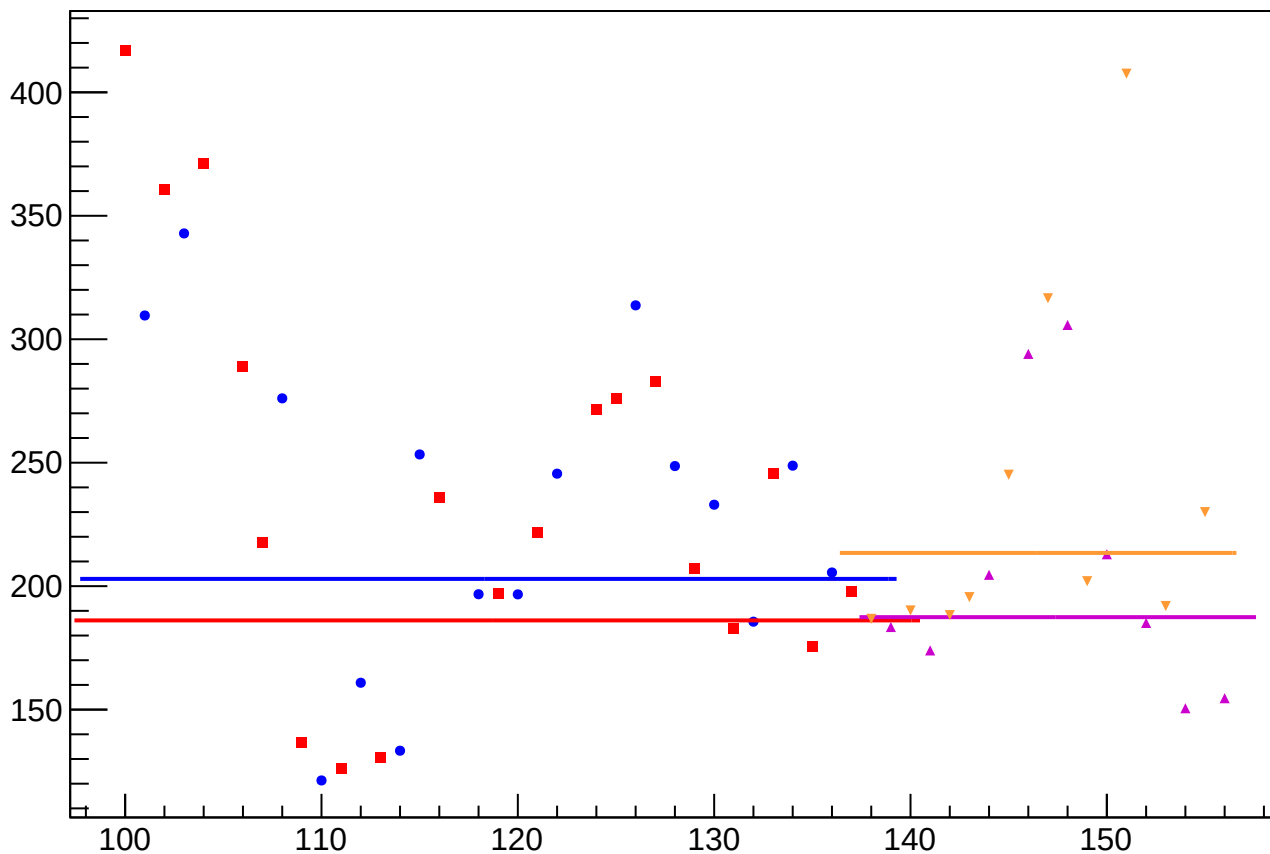
Right: -665.741 ± 53.906 χ^2/NDF : 977.1/34

In: -144.584 ± 52.940 χ^2/NDF : 1031.6/24

Out: -1.765 ± 53.735 χ^2/NDF : 2058.1/28

All: -74.239 ± 37.712 χ^2/NDF : 3093.3/53

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 202.941 $\pm$ 0.056 χ^2 /NDF: 1071859.2/15

Left Out: 213.462 $\pm$ 0.056 χ^2 /NDF: 680793.2/9

Right Out: 186.129 $\pm$ 0.052 χ^2 /NDF: 1481664.4/18

Left In: 187.447 $\pm$ 0.050 χ^2 /NDF: 702068.1/8

Left: 198.968 $\pm$ 0.037 χ^2 /NDF: 1502749.9/18

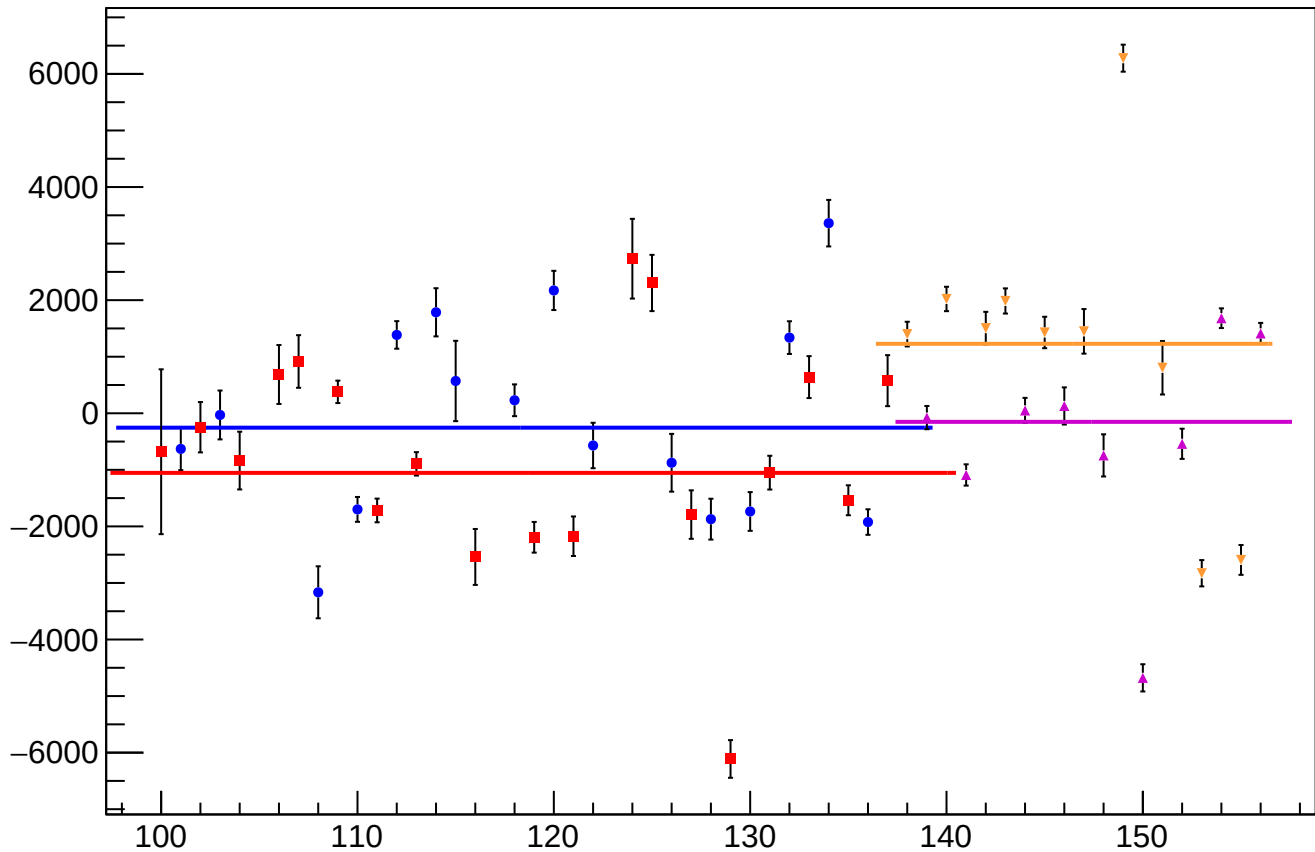
Right: 193.789 $\pm$ 0.038 χ^2 /NDF: 2601774.8/34

In: 194.256 $\pm$ 0.037 χ^2 /NDF: 1816125.5/24

Out: 198.676 $\pm$ 0.038 χ^2 /NDF: 2290957.2/28

All: 196.433 $\pm$ 0.027 χ^2 /NDF: 4113951.0/53

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Left: 469.715 ± 54.976 $\chi^2/\text{NDF}: 1711.1/18$

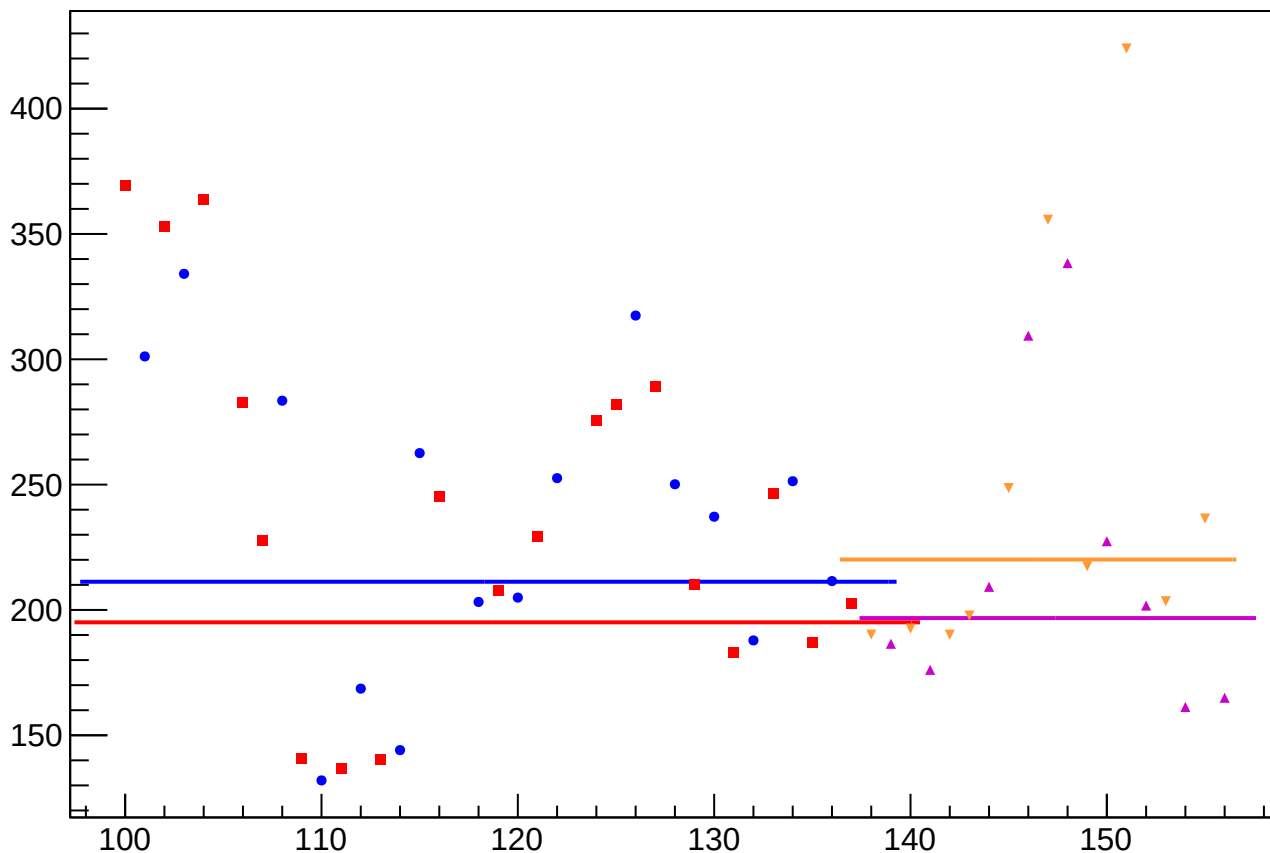
Right: -686.933 ± 55.882 $\chi^2/\text{NDF}: 937.7/34$

In: -197.551 ± 55.142 $\chi^2/\text{NDF}: 975.9/24$

Out: 1.268 ± 55.708 $\chi^2/\text{NDF}: 1884.2/28$

All: -99.156 ± 39.190 $\chi^2/\text{NDF}: 2866.6/53$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 211.254 $\pm$ 0.058 χ^2 /NDF: 884363.6/15

Left Out: 220.118 $\pm$ 0.058 χ^2 /NDF: 760347.7/9

Right Out: 195.061 $\pm$ 0.054 χ^2 /NDF: 1284879.9/18

Left In: 196.758 $\pm$ 0.052 χ^2 /NDF: 734169.2/8

Left: 207.274 $\pm$ 0.039 χ^2 /NDF: 1583894.8/18

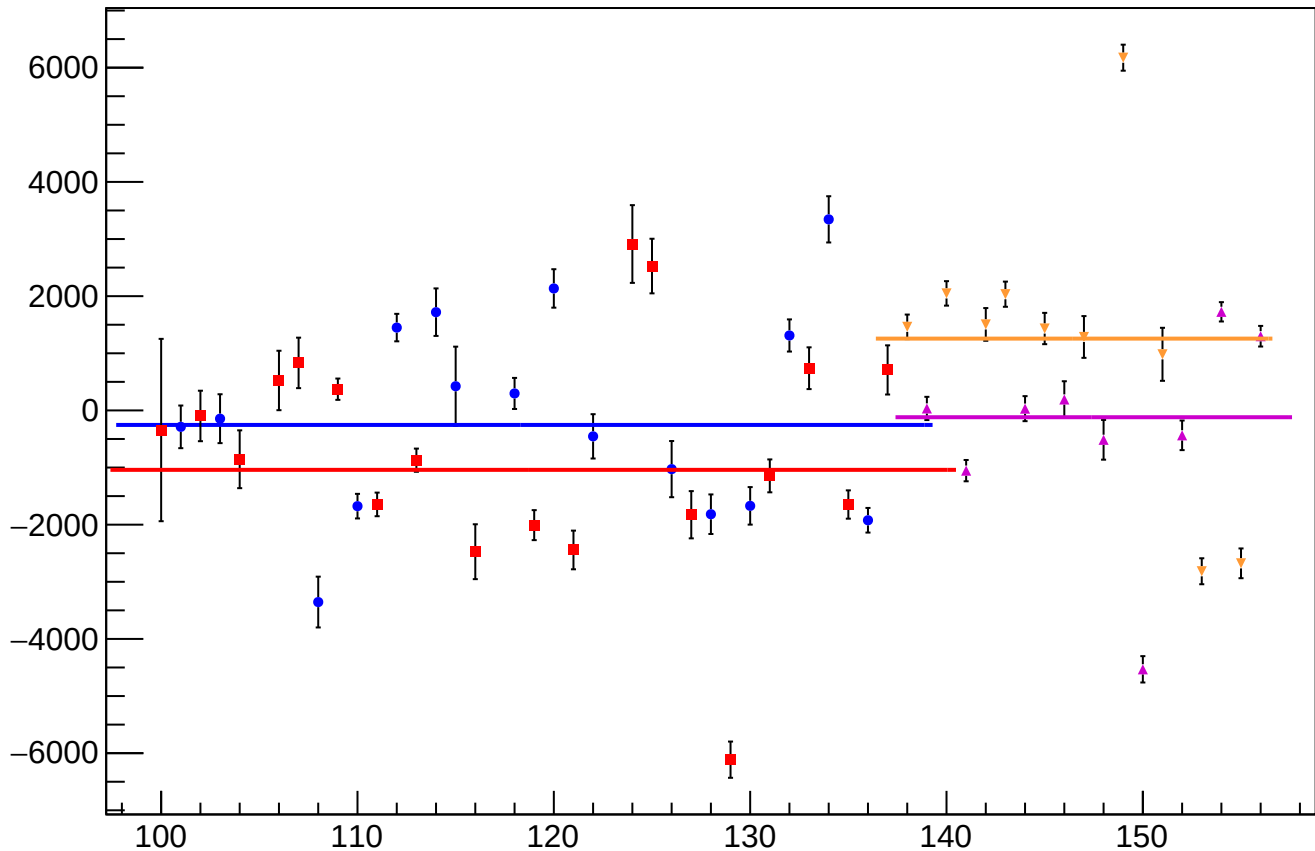
Right: 202.492 $\pm$ 0.040 χ^2 /NDF: 2210941.3/34

In: 203.235 $\pm$ 0.039 χ^2 /NDF: 1652694.3/24

Out: 206.644 $\pm$ 0.039 χ^2 /NDF: 2145802.9/28

All: 204.922 $\pm$ 0.028 χ^2 /NDF: 3802279.4/53

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -254.044+/-80.222 χ^2/NDF : 432.1/15

Left Out: 1257.019+/-80.312 χ^2/NDF :1043.2/9

Right Out: -1040.361+/-73.363 χ^2/NDF : 533.4/18

Left In: -119.101+/-72.311 χ^2/NDF :576.9/8

Left: 497.017+/-53.738 χ^2/NDF : 1782.3/18

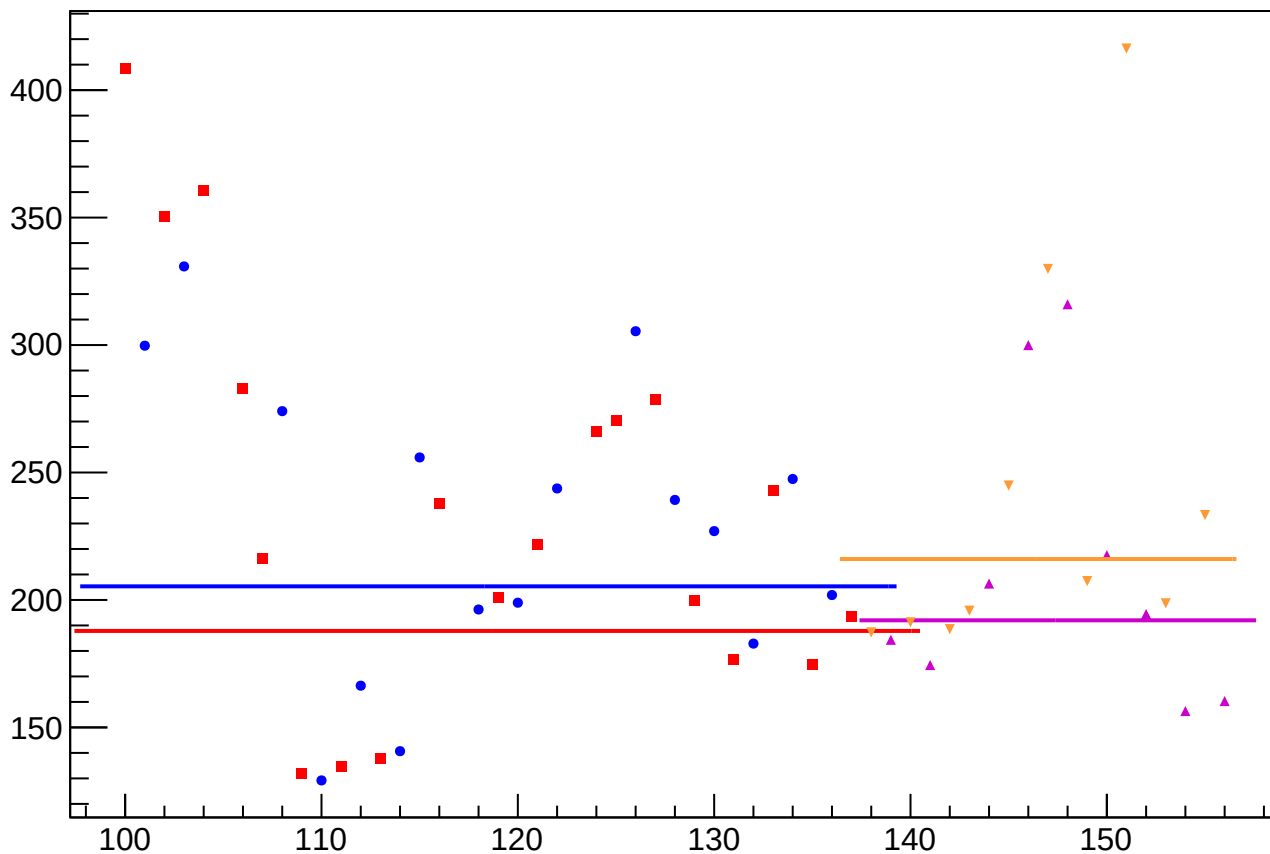
Right: -682.251+/-54.138 χ^2/NDF : 1017.8/34

In: -179.592+/-53.712 χ^2/NDF :1010.6/24

Out: 4.653+/-54.166 χ^2/NDF :2022.6/28

All: -88.245+/-38.139 χ^2/NDF : 3039.1/53

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 205.341 $\pm$ 0.057 χ^2/NDF : 877398.6/15

Left Out: 216.054 $\pm$ 0.057 χ^2/NDF : 709986.2/9

Right Out: 187.848 $\pm$ 0.052 χ^2/NDF : 1337049.4/18

Left In: 192.012 $\pm$ 0.051 χ^2/NDF : 687020.7/8

Left: 202.776 $\pm$ 0.038 χ^2/NDF : 1495992.9/18

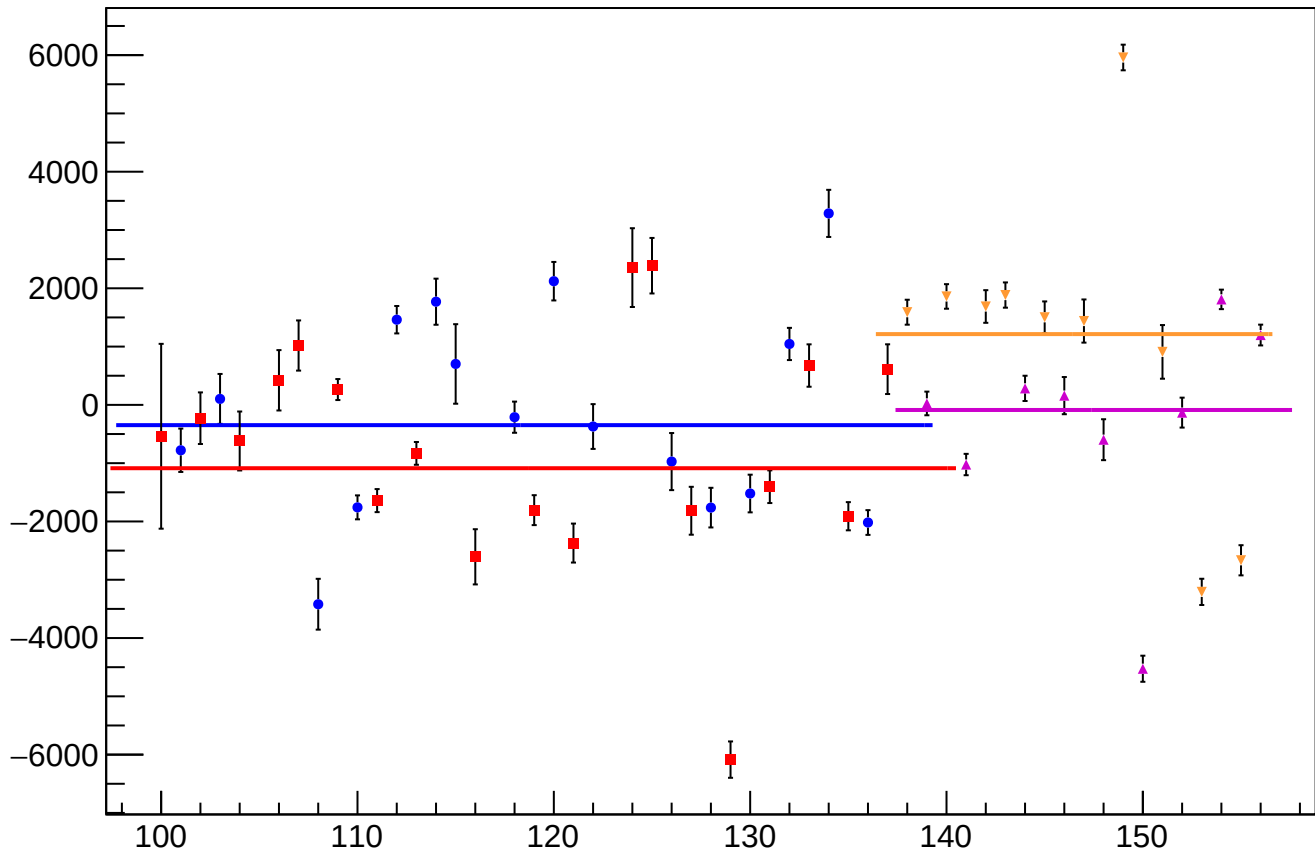
Right: 195.815 $\pm$ 0.038 χ^2/NDF : 2266235.0/34

In: 197.987 $\pm$ 0.038 χ^2/NDF : 1594881.8/24

Out: 200.678 $\pm$ 0.038 χ^2/NDF : 2181512.9/28

All: 199.322 $\pm$ 0.027 χ^2/NDF : 3778884.0/53

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.666+/-78.567 χ^2/NDF : 445.8/15

Left Out: 1214.049+/-79.239 χ^2/NDF :1103.4/9

Right Out: -1086.638+/-71.539 χ^2/NDF : 527.2/18

Left In: -87.525+/-71.482 χ^2/NDF :606.2/8

Left: 496.448+/-53.077 χ^2/NDF : 1858.3/18

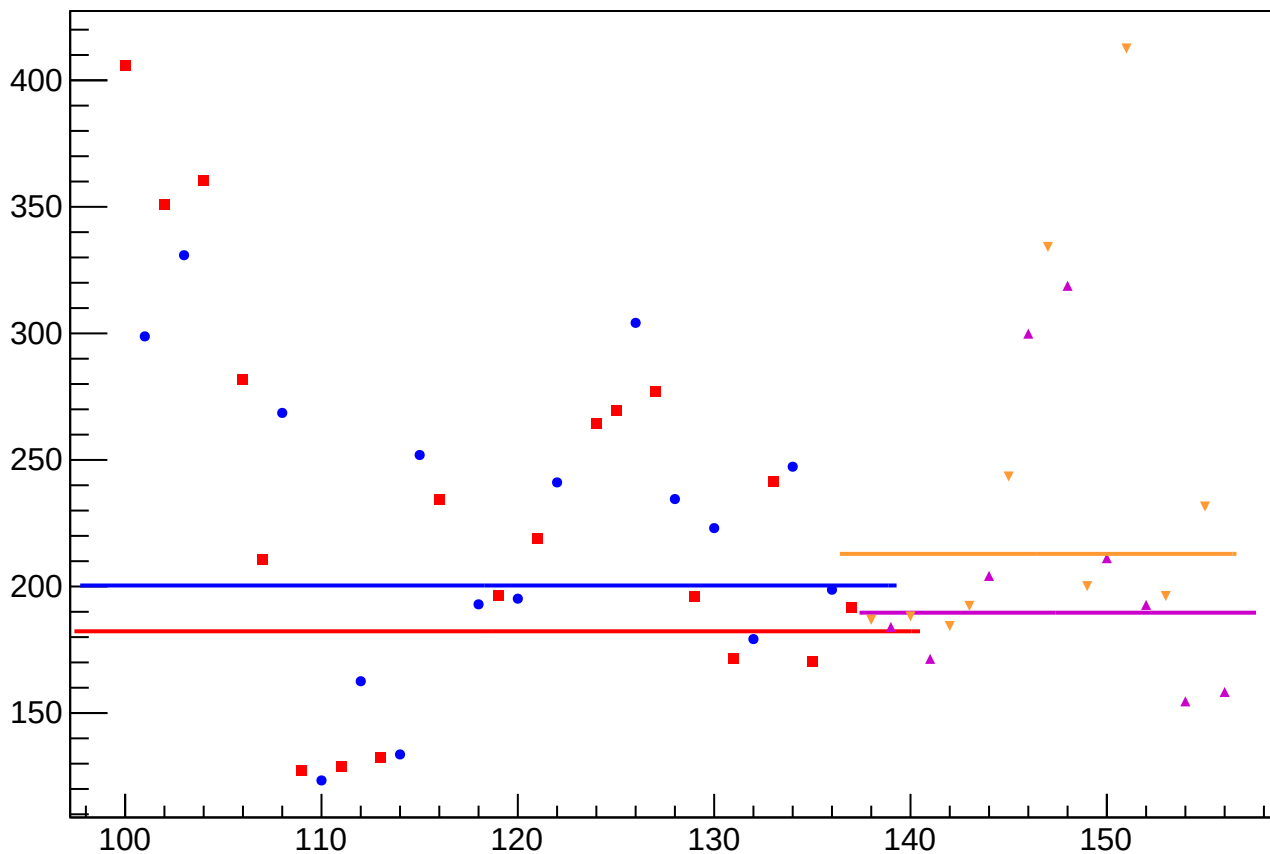
Right: -751.676+/-52.896 χ^2/NDF : 1021.4/34

In: -205.340+/-52.873 χ^2/NDF :1058.0/24

Out: -53.490+/-53.100 χ^2/NDF :2095.0/28

All: -129.740+/-37.467 χ^2/NDF : 3157.1/53

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 200.399 $\pm$ 0.056 χ^2 /NDF: 959000.8/15

Left Out: 212.890 $\pm$ 0.056 χ^2 /NDF: 740106.6/9

Right Out: 182.302 $\pm$ 0.051 χ^2 /NDF: 1447197.0/18

Left In: 189.652 $\pm$ 0.051 χ^2 /NDF: 708438.2/8

Left: 200.078 $\pm$ 0.038 χ^2 /NDF: 1543378.4/18

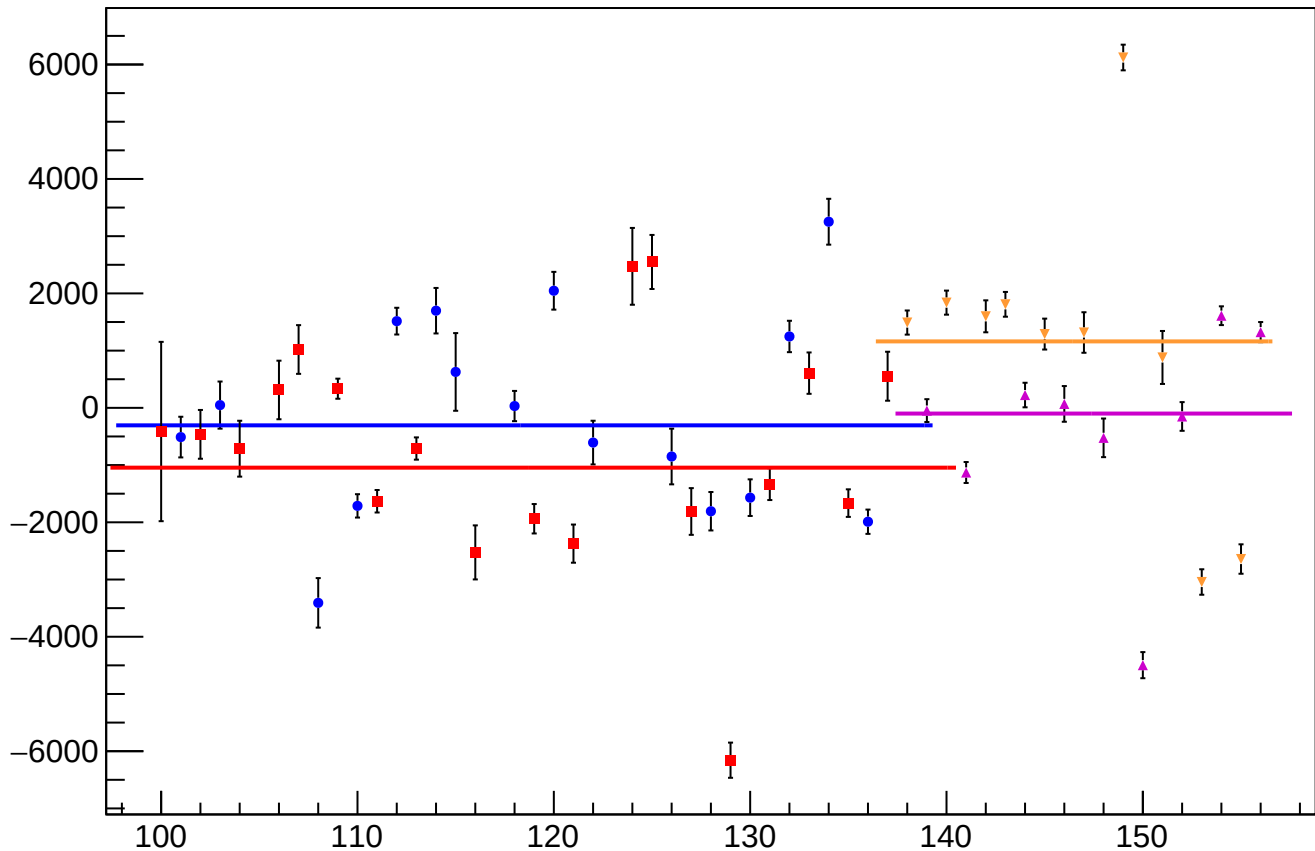
Right: 190.505 $\pm$ 0.037 χ^2 /NDF: 2464212.0/34

In: 194.519 $\pm$ 0.037 χ^2 /NDF: 1687910.9/24

Out: 196.038 $\pm$ 0.038 χ^2 /NDF: 2351504.7/28

All: 195.275 $\pm$ 0.026 χ^2 /NDF: 4040236.9/53

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -305.649+/-77.868 χ^2/NDF : 451.8/15

Left Out: 1161.354+/-78.863 χ^2/NDF :1090.0/9

Right Out: -1045.144+/-70.824 χ^2/NDF : 552.2/18

Left In: -99.779+/-70.650 χ^2/NDF :581.4/8

Left: 461.716+/-52.622 χ^2/NDF : 1813.3/18

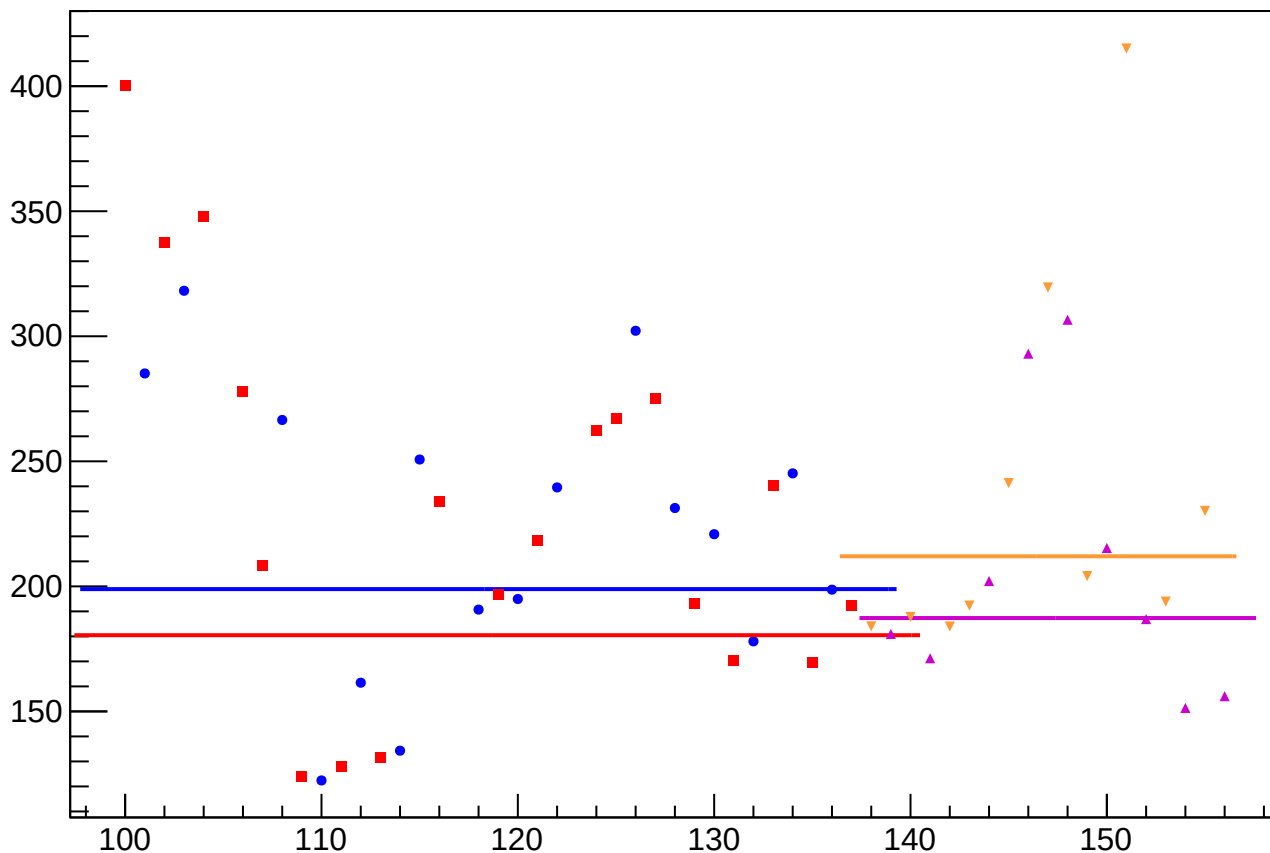
Right: -710.354+/-52.394 χ^2/NDF : 1053.3/34

In: -192.731+/-52.323 χ^2/NDF :1037.1/24

Out: -60.063+/-52.694 χ^2/NDF :2075.5/28

All: -126.865+/-37.128 χ^2/NDF : 3115.8/53

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 198.903 $\pm$ 0.055 χ^2 /NDF: 912765.0/15

Left Out: 212.016 $\pm$ 0.056 χ^2 /NDF: 716922.5/9

Right Out: 180.473 $\pm$ 0.050 χ^2 /NDF: 1434435.8/18

Left In: 187.334 $\pm$ 0.050 χ^2 /NDF: 695595.4/8

Left: 198.324 $\pm$ 0.037 χ^2 /NDF: 1521199.3/18

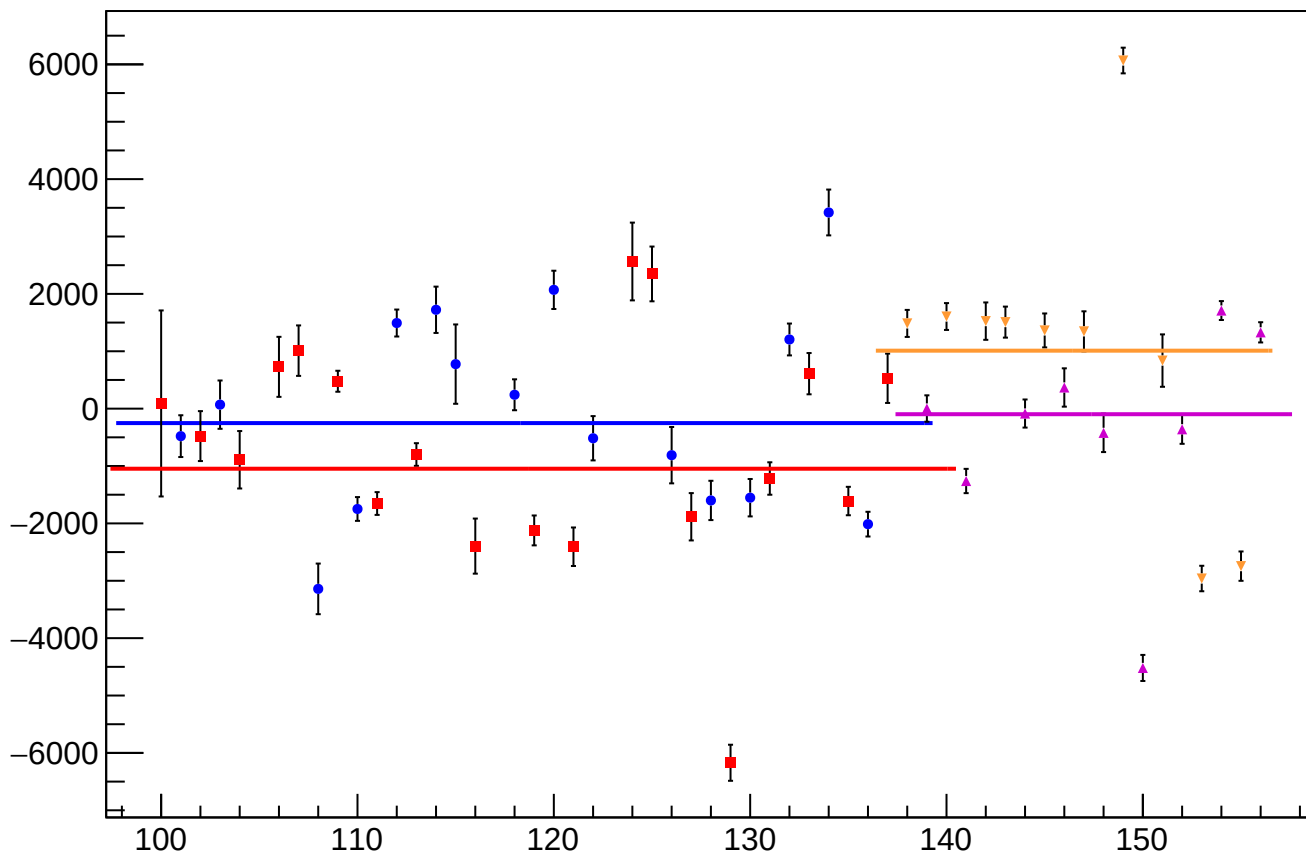
Right: 188.816 $\pm$ 0.037 χ^2 /NDF: 2408514.3/34

In: 192.558 $\pm$ 0.037 χ^2 /NDF: 1632571.3/24

Out: 194.555 $\pm$ 0.037 χ^2 /NDF: 2328477.8/28

All: 193.549 $\pm$ 0.026 χ^2 /NDF: 3962496.5/53

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -251.795 ± 78.974 χ^2/NDF : 441.2/15

Left Out: 1010.323 ± 84.721 χ^2/NDF : 1064.5/9

Right Out: -1047.132 ± 72.190 χ^2/NDF : 546.7/18

Left In: -97.016 ± 74.582 χ^2/NDF : 599.4/8

Left: 386.459 ± 55.981 χ^2/NDF : 1760.2/18

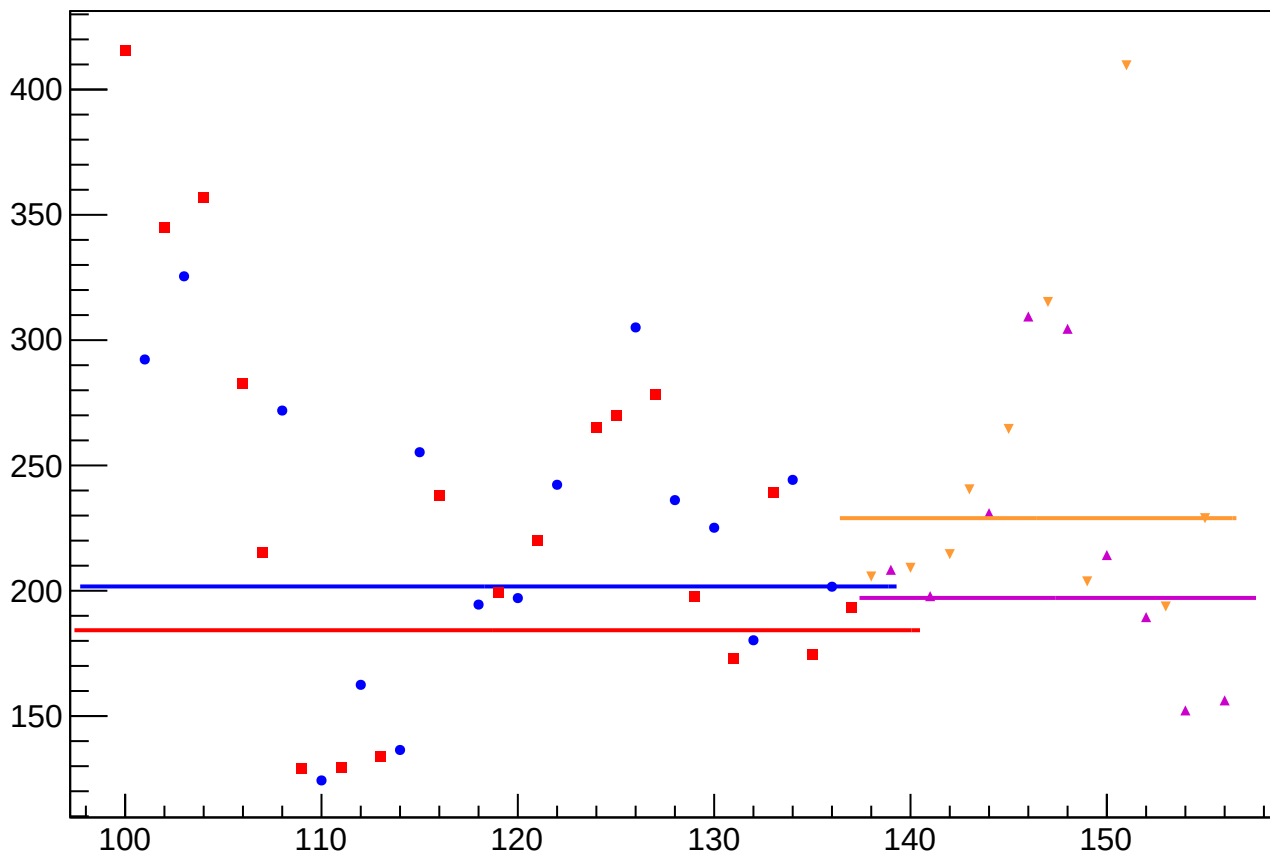
Right: -685.086 ± 53.283 χ^2/NDF : 1043.2/34

In: -169.982 ± 54.224 χ^2/NDF : 1042.7/24

Out: -181.675 ± 54.948 χ^2/NDF : 1952.9/28

All: -175.751 ± 38.595 χ^2/NDF : 2995.6/53

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 201.714 $\pm$ 0.056 χ^2 /NDF: 924210.1/15

Left Out: 228.972 $\pm$ 0.060 χ^2 /NDF: 581105.2/9

Right Out: 184.244 $\pm$ 0.051 χ^2 /NDF: 1403761.8/18

Left In: 197.138 $\pm$ 0.053 χ^2 /NDF: 743653.7/8

Left: 211.037 $\pm$ 0.040 χ^2 /NDF: 1483850.0/18

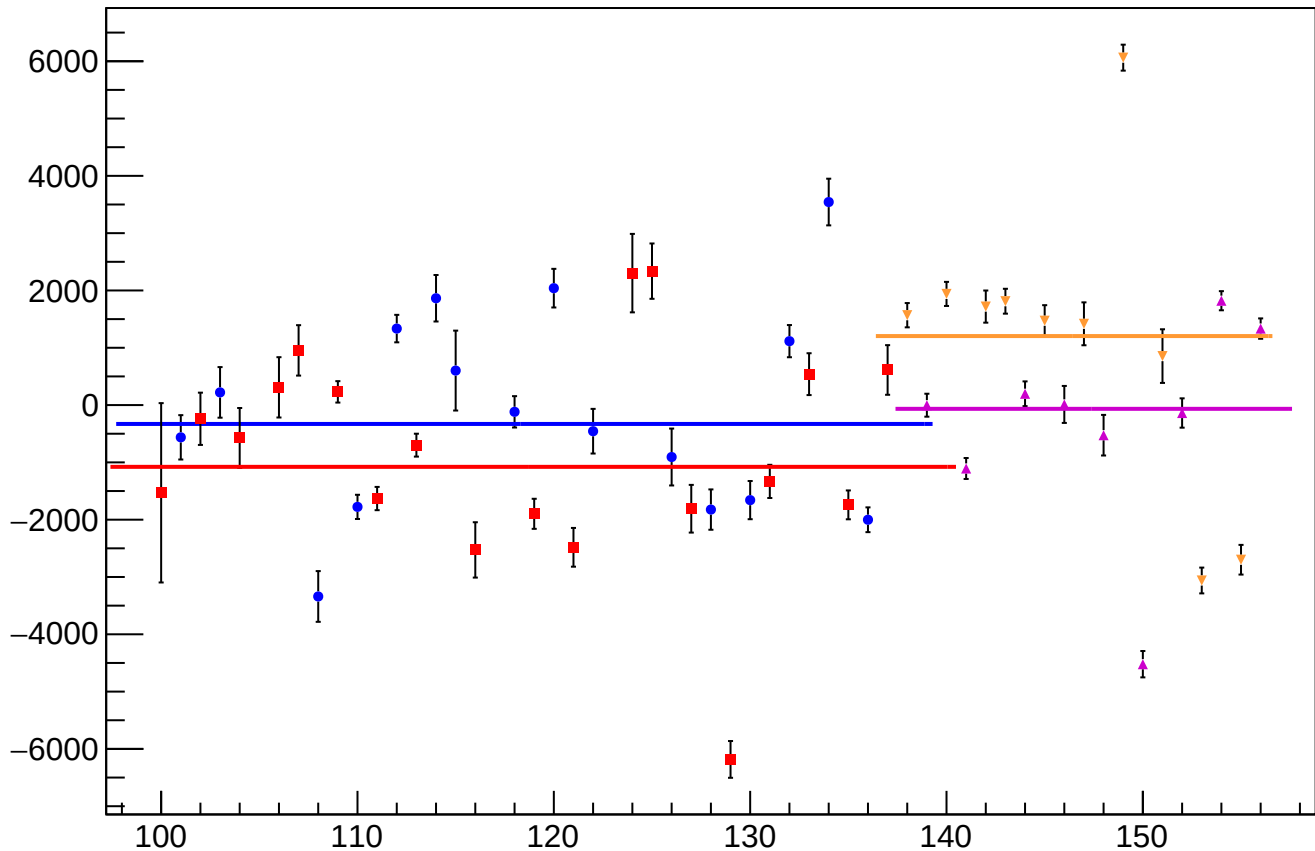
Right: 192.196 $\pm$ 0.038 χ^2 /NDF: 2381288.1/34

In: 199.295 $\pm$ 0.038 χ^2 /NDF: 1671412.1/24

Out: 203.059 $\pm$ 0.039 χ^2 /NDF: 2307837.2/28

All: 201.152 $\pm$ 0.027 χ^2 /NDF: 3984003.0/53

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -329.377 ± 80.367 $\chi^2/\text{NDF}: 436.4/15$

Left Out: 1204.160 ± 79.499 $\chi^2/\text{NDF}: 1074.1/9$

Right Out: -1077.876 ± 73.404 $\chi^2/\text{NDF}: 502.0/18$

Left In: -65.561 ± 71.490 $\chi^2/\text{NDF}: 601.2/8$

Left: 502.138 ± 53.158 $\chi^2/\text{NDF}: 1816.3/18$

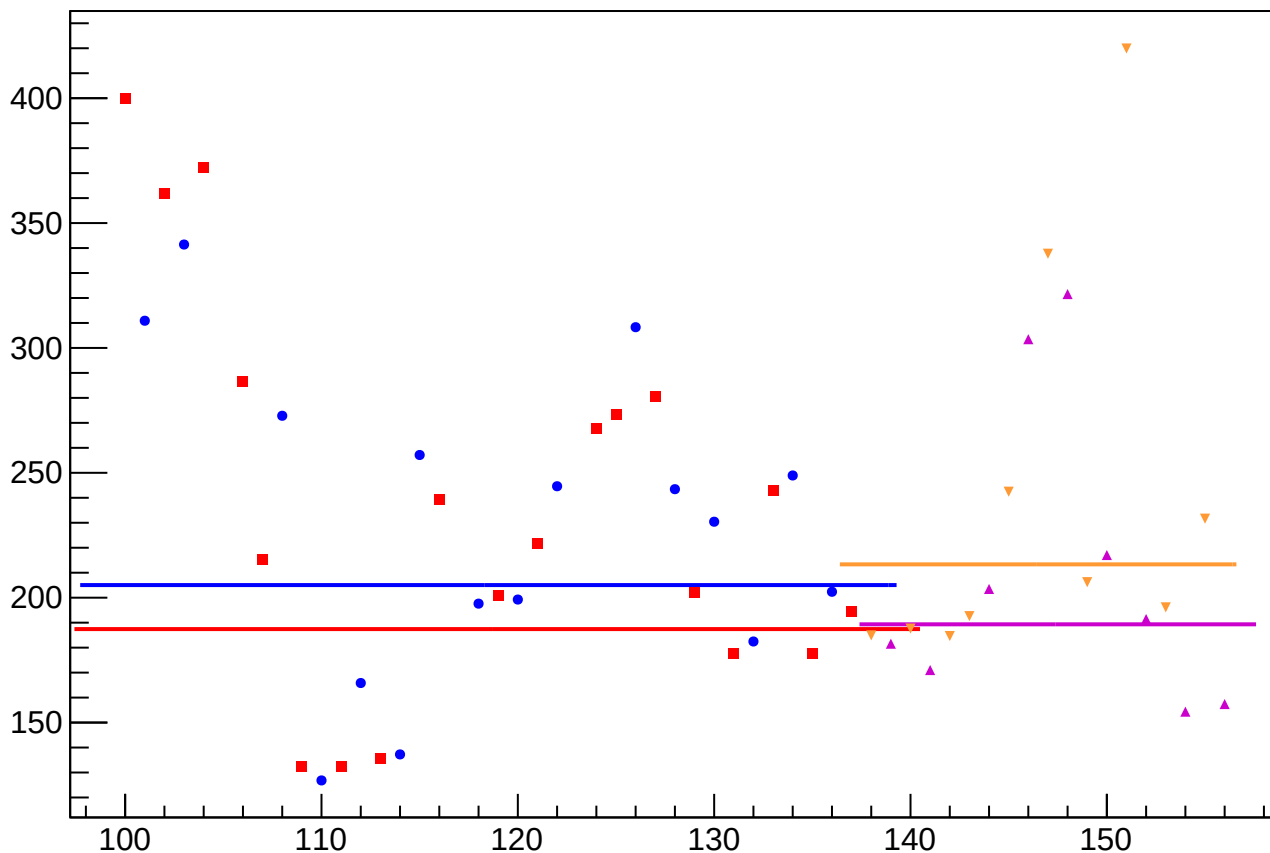
Right: -737.449 ± 54.199 $\chi^2/\text{NDF}: 985.7/34$

In: -182.099 ± 53.415 $\chi^2/\text{NDF}: 1043.6/24$

Out: -27.674 ± 53.931 $\chi^2/\text{NDF}: 2020.9/28$

All: -105.629 ± 37.951 $\chi^2/\text{NDF}: 3068.6/53$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.053+/-0.057 χ^2/NDF : 963052.0/15

Left Out: 213.346+/-0.056 χ^2/NDF : 762032.3/9

Right Out: 187.431+/-0.052 χ^2/NDF : 1410802.2/18

Left In: 189.337+/-0.051 χ^2/NDF : 742130.8/8

Left: 200.071+/-0.038 χ^2/NDF : 1605021.3/18

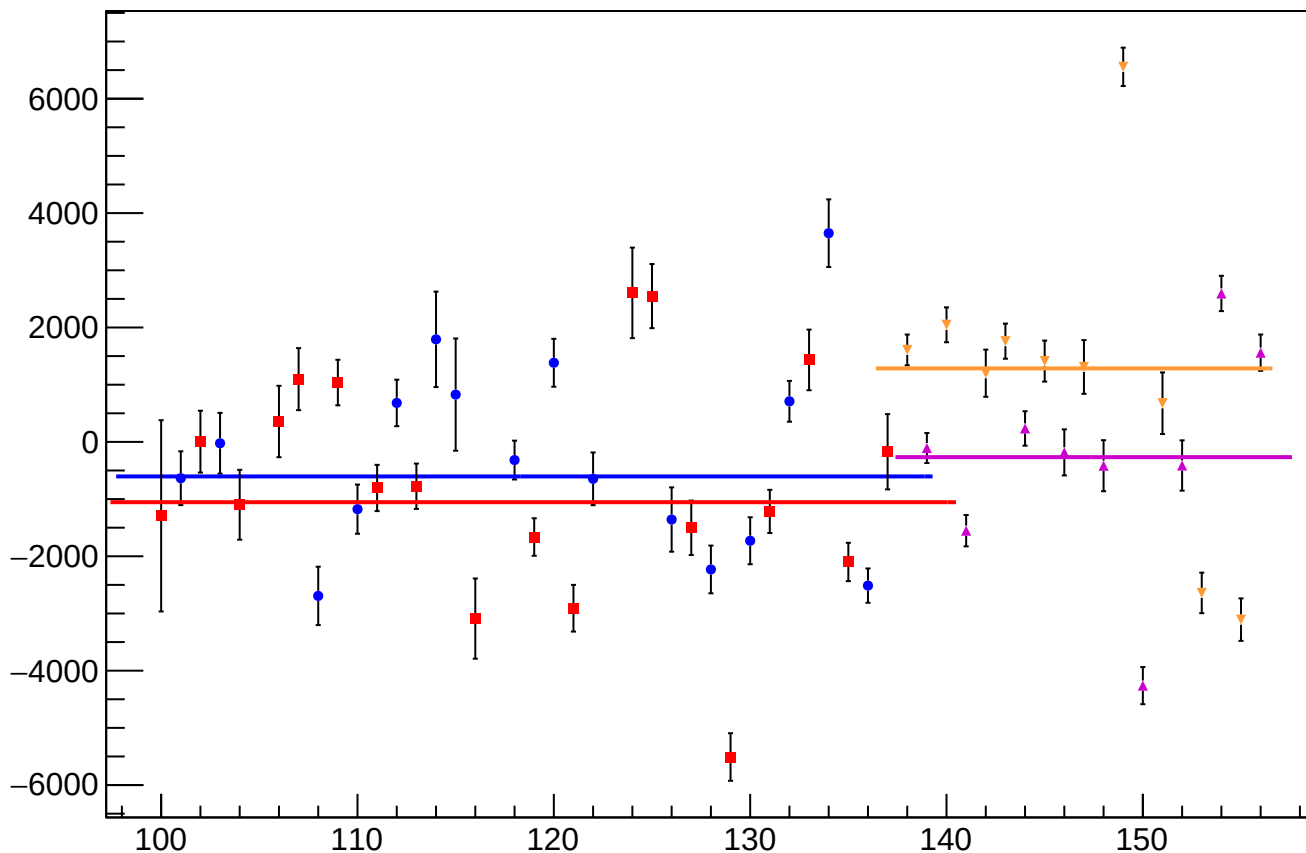
Right: 195.446+/-0.038 χ^2/NDF : 2426275.9/34

In: 196.279+/-0.038 χ^2/NDF : 1747881.3/24

Out: 199.357+/-0.038 χ^2/NDF : 2287551.4/28

All: 197.803+/-0.027 χ^2/NDF : 4038721.7/53

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -603.855 ± 110.693 $\chi^2/\text{NDF}: 193.5/15$

Left Out: 1284.792 ± 111.185 $\chi^2/\text{NDF}: 521.0/9$

Right Out: -1054.556 ± 108.264 $\chi^2/\text{NDF}: 297.7/18$

Left In: -266.732 ± 108.332 $\chi^2/\text{NDF}: 296.1/8$

Left: 488.868 ± 77.591 $\chi^2/\text{NDF}: 917.0/18$

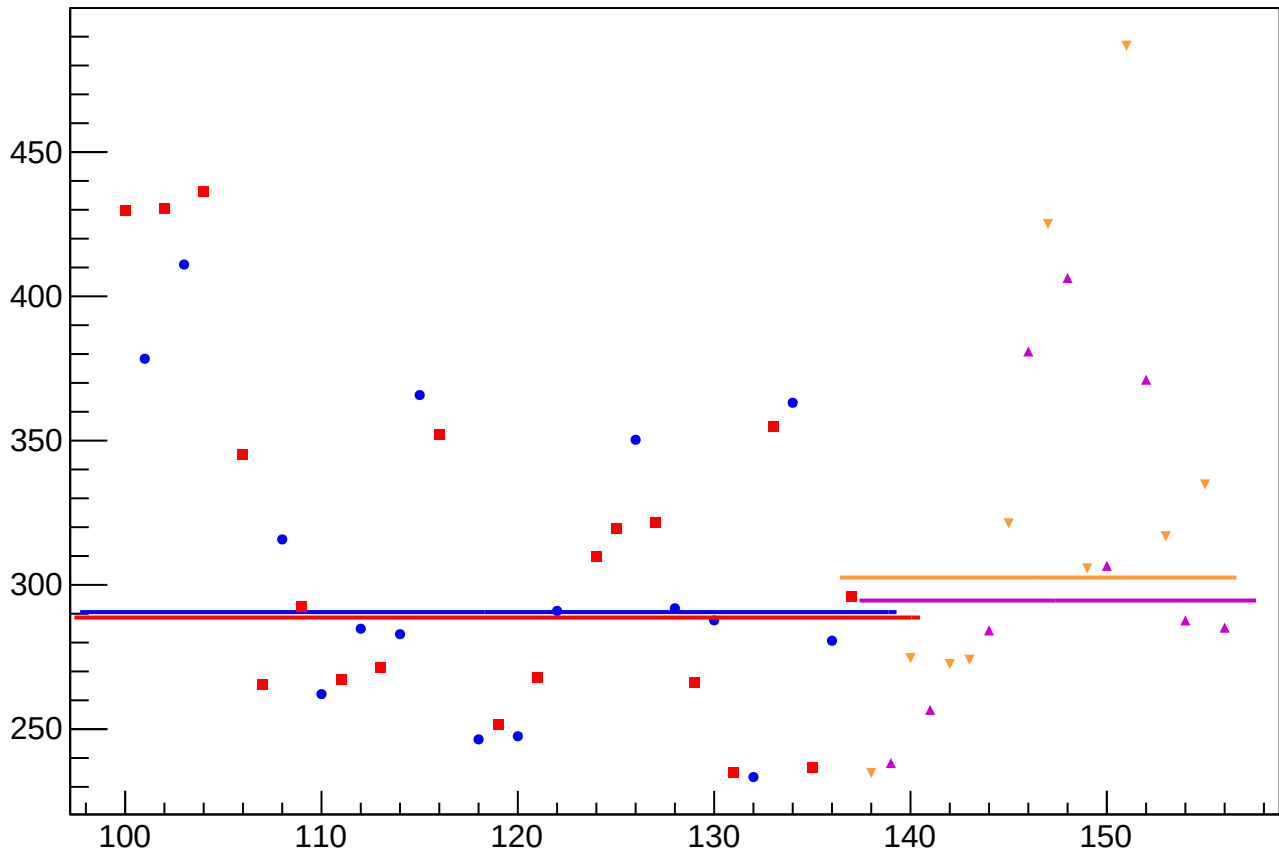
Right: -834.205 ± 77.398 $\chi^2/\text{NDF}: 499.7/34$

In: -431.660 ± 77.423 $\chi^2/\text{NDF}: 494.4/24$

Out: 83.984 ± 77.566 $\chi^2/\text{NDF}: 1045.9/28$

All: -174.313 ± 54.797 $\chi^2/\text{NDF}: 1562.5/53$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 290.566 $\pm$ 0.078 χ^2 /NDF: 359807.1/15

Left Out: 302.543 $\pm$ 0.079 χ^2 /NDF: 565415.2/9

Right Out: 288.686 $\pm$ 0.077 χ^2 /NDF: 489094.8/18

Left In: 294.570 $\pm$ 0.077 χ^2 /NDF: 416653.6/8

Left: 298.453 $\pm$ 0.055 χ^2 /NDF: 987345.1/18

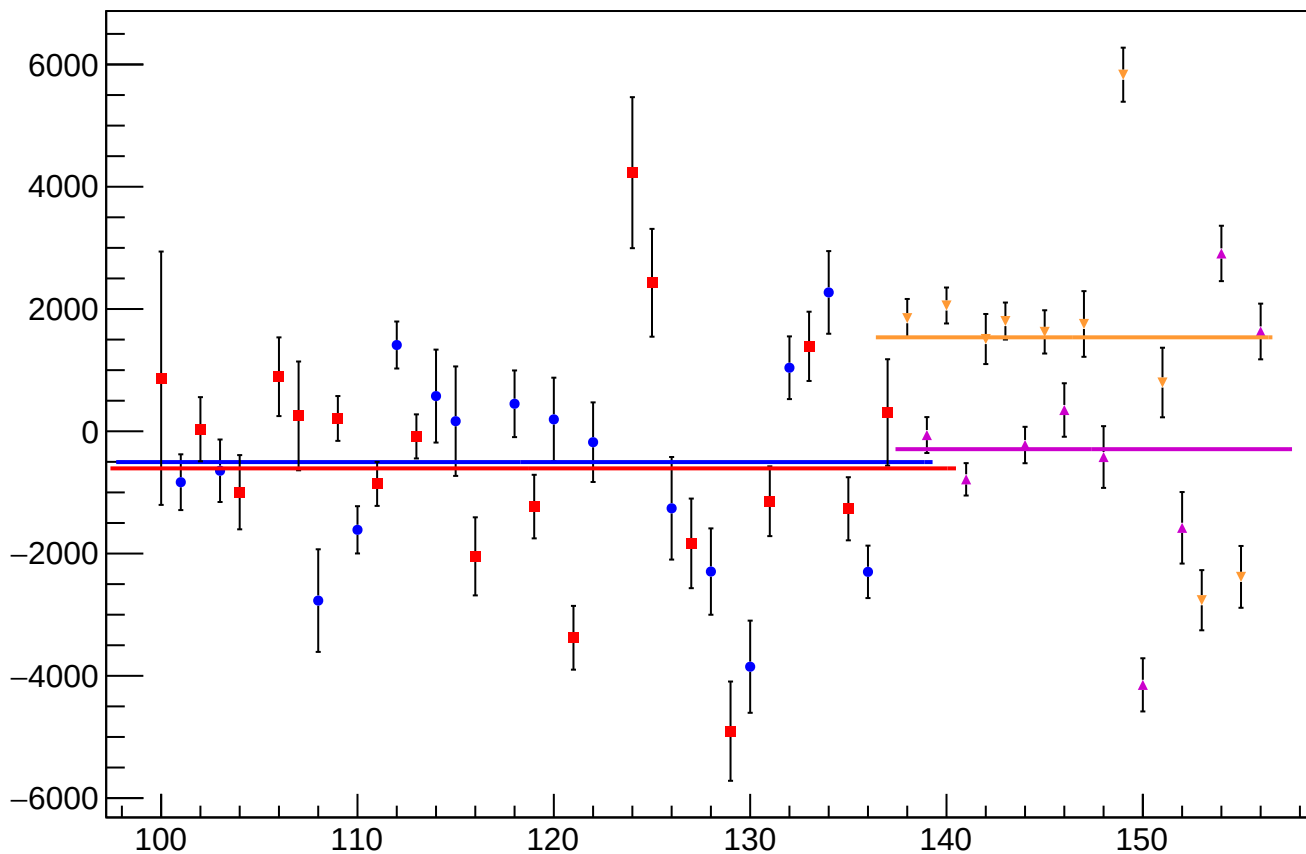
Right: 289.605 $\pm$ 0.055 χ^2 /NDF: 849196.8/34

In: 292.611 $\pm$ 0.055 χ^2 /NDF: 777797.2/24

Out: 295.430 $\pm$ 0.055 χ^2 /NDF: 1070456.9/28

All: 294.018 $\pm$ 0.039 χ^2 /NDF: 1849577.4/53

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -503.675 $\pm$ 140.058 χ^2/NDF : 118.2/15

Left Out: 1536.821 $\pm$ 122.858 χ^2/NDF : 237.5/9

Right Out: -606.880 $\pm$ 129.609 χ^2/NDF : 125.1/18

Left In: -292.529 $\pm$ 124.863 χ^2/NDF : 157.5/8

Left: 636.948 $\pm$ 87.574 χ^2/NDF : 504.1/18

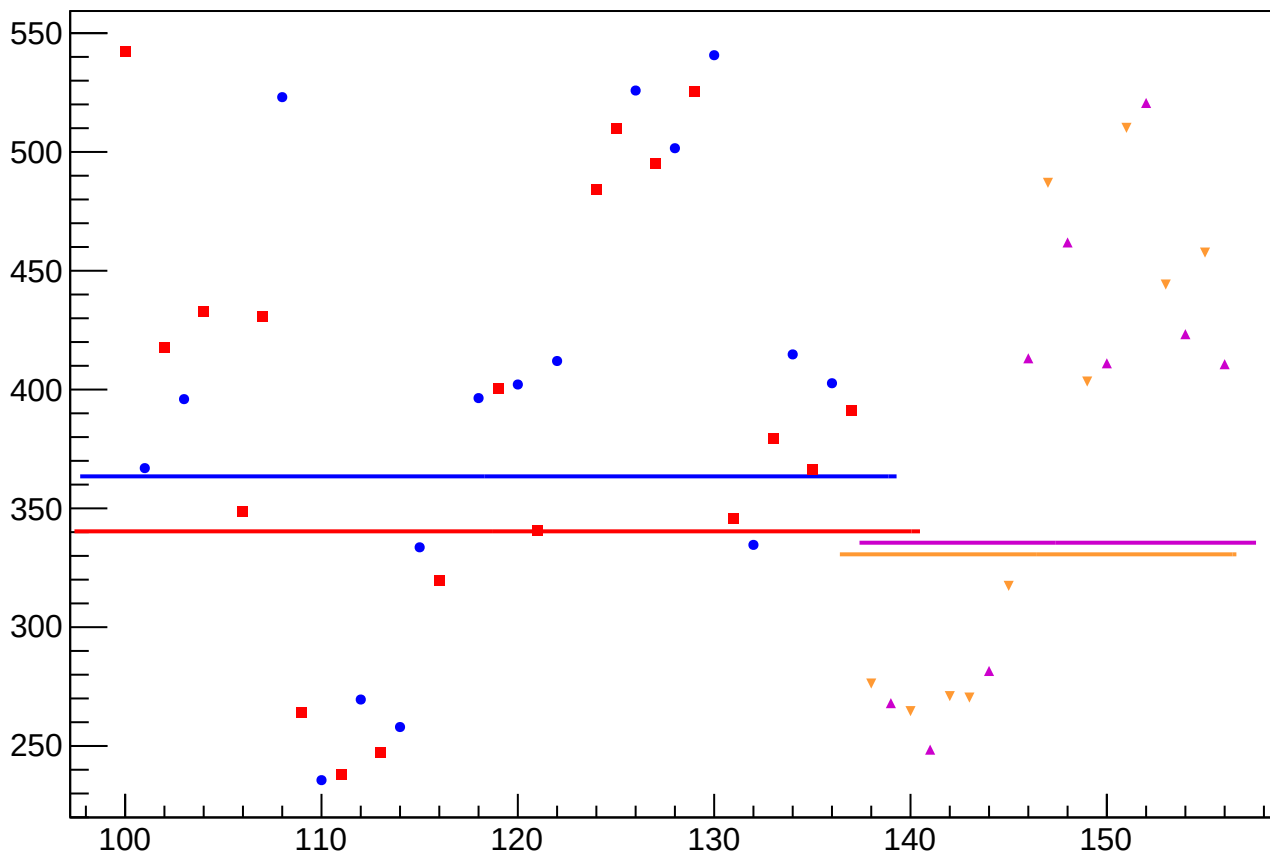
Right: -559.271 $\pm$ 95.127 χ^2/NDF : 243.7/34

In: -386.031 $\pm$ 93.202 χ^2/NDF : 277.0/24

Out: 522.246 $\pm$ 89.165 χ^2/NDF : 506.8/28

All: 88.206 $\pm$ 64.429 χ^2/NDF : 833.4/53

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 363.471+/-0.099 χ^2/NDF : 780893.2/15

Left Out: 330.658+/-0.087 χ^2/NDF : 940220.8/9

Right Out: 340.332+/-0.092 χ^2/NDF : 856230.3/18

Left In: 335.544+/-0.088 χ^2/NDF : 965331.9/8

Left: 333.061+/-0.062 χ^2/NDF : 1907109.1/18

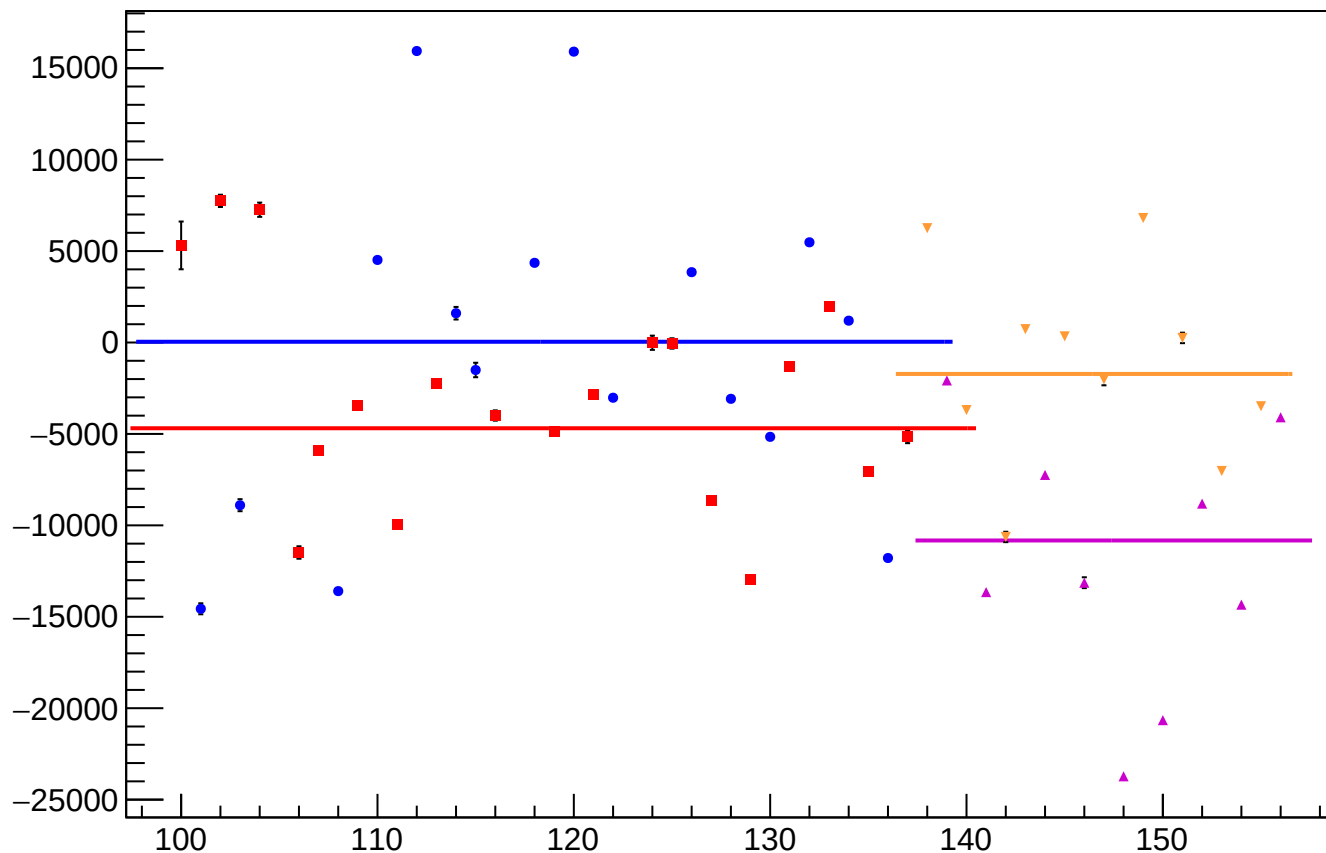
Right: 351.006+/-0.067 χ^2/NDF : 1666529.8/34

In: 347.911+/-0.066 χ^2/NDF : 1790529.3/24

Out: 335.236+/-0.063 χ^2/NDF : 1802320.6/28

All: 341.293+/-0.046 χ^2/NDF : 3612162.2/53

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915+/-54.199 χ^2/NDF : 30786.3/15

Left Out: -1719.719+/-66.409 χ^2/NDF : 5951.6/9

Right Out: -4689.710+/-52.095 χ^2/NDF : 7795.7/18

Left In: -10827.078+/-66.548 χ^2/NDF : 9556.5/8

Left: -6263.917+/-47.007 χ^2/NDF : 24892.2/18

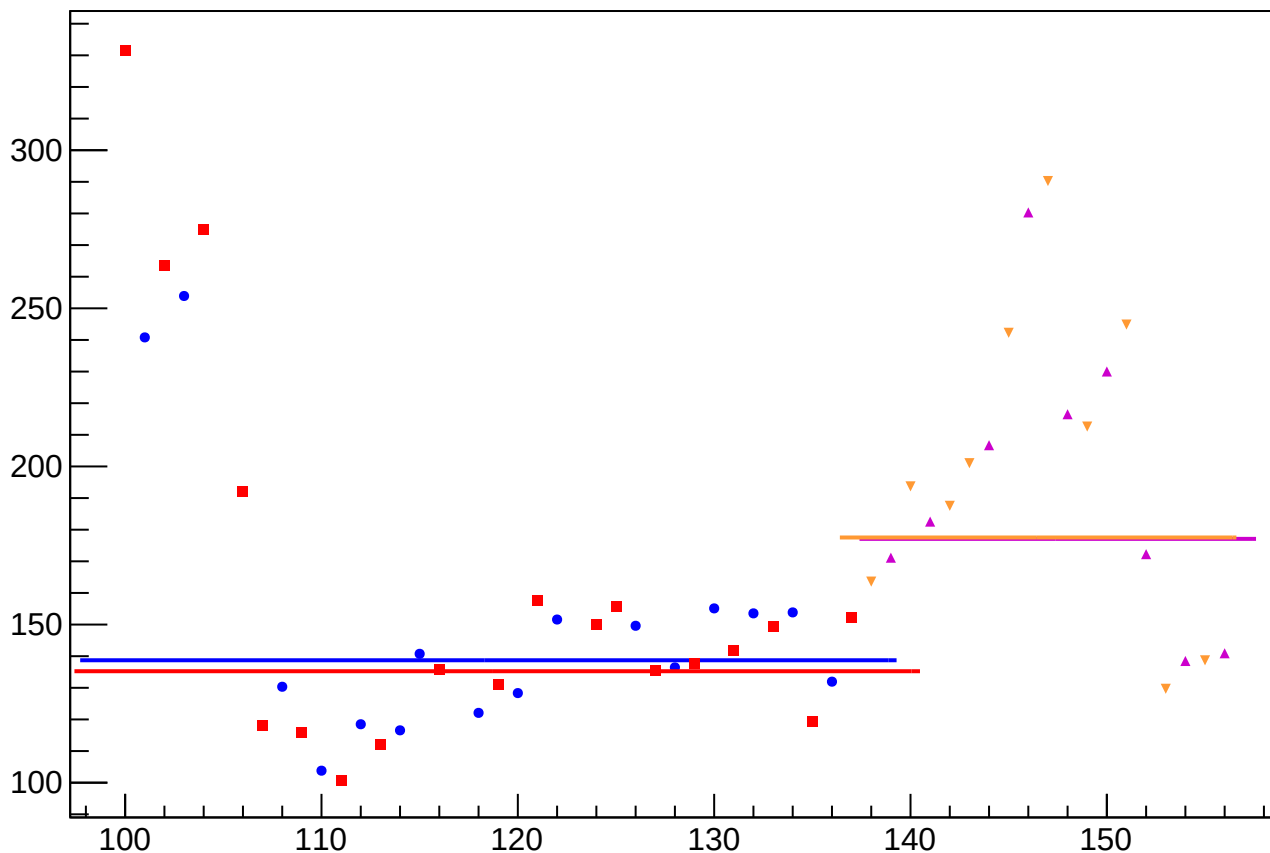
Right: -2417.983+/-37.558 χ^2/NDF : 42541.9/34

In: -4293.081+/-42.025 χ^2/NDF : 56377.5/24

Out: -3558.306+/-40.988 χ^2/NDF : 14985.5/28

All: -3916.523+/-29.343 χ^2/NDF : 71519.7/53

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2 /NDF: 657791.3/15

Left Out: 177.535 $\pm$ 0.047 χ^2 /NDF: 911858.8/9

Right Out: 135.245 $\pm$ 0.037 χ^2 /NDF: 890024.8/18

Left In: 177.098 $\pm$ 0.047 χ^2 /NDF: 670694.6/8

Left: 177.317 $\pm$ 0.033 χ^2 /NDF: 1582596.6/18

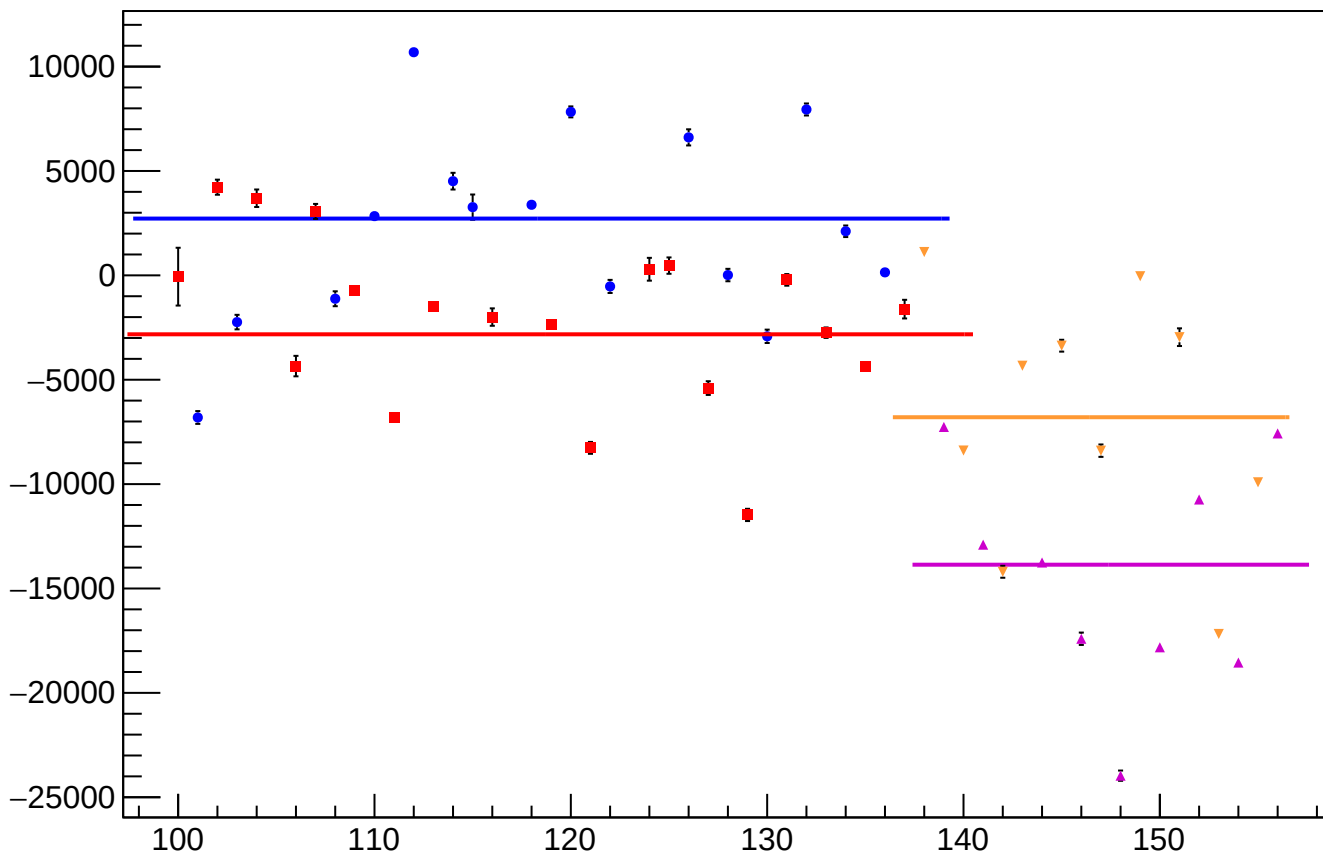
Right: 136.910 $\pm$ 0.027 χ^2 /NDF: 1552069.4/34

In: 154.020 $\pm$ 0.030 χ^2 /NDF: 1728553.4/24

Out: 151.355 $\pm$ 0.029 χ^2 /NDF: 2303952.1/28

All: 152.654 $\pm$ 0.021 χ^2 /NDF: 4036626.0/53

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896+/-69.247 χ^2/NDF : 4129.3/15

Left Out: -6796.426+/-76.142 χ^2/NDF : 6475.9/9

Right Out: -2823.679+/-64.850 χ^2/NDF : 3062.8/18

Left In: -13860.637+/-67.174 χ^2/NDF : 5922.6/8

Left: -10768.853+/-50.373 χ^2/NDF : 17238.7/18

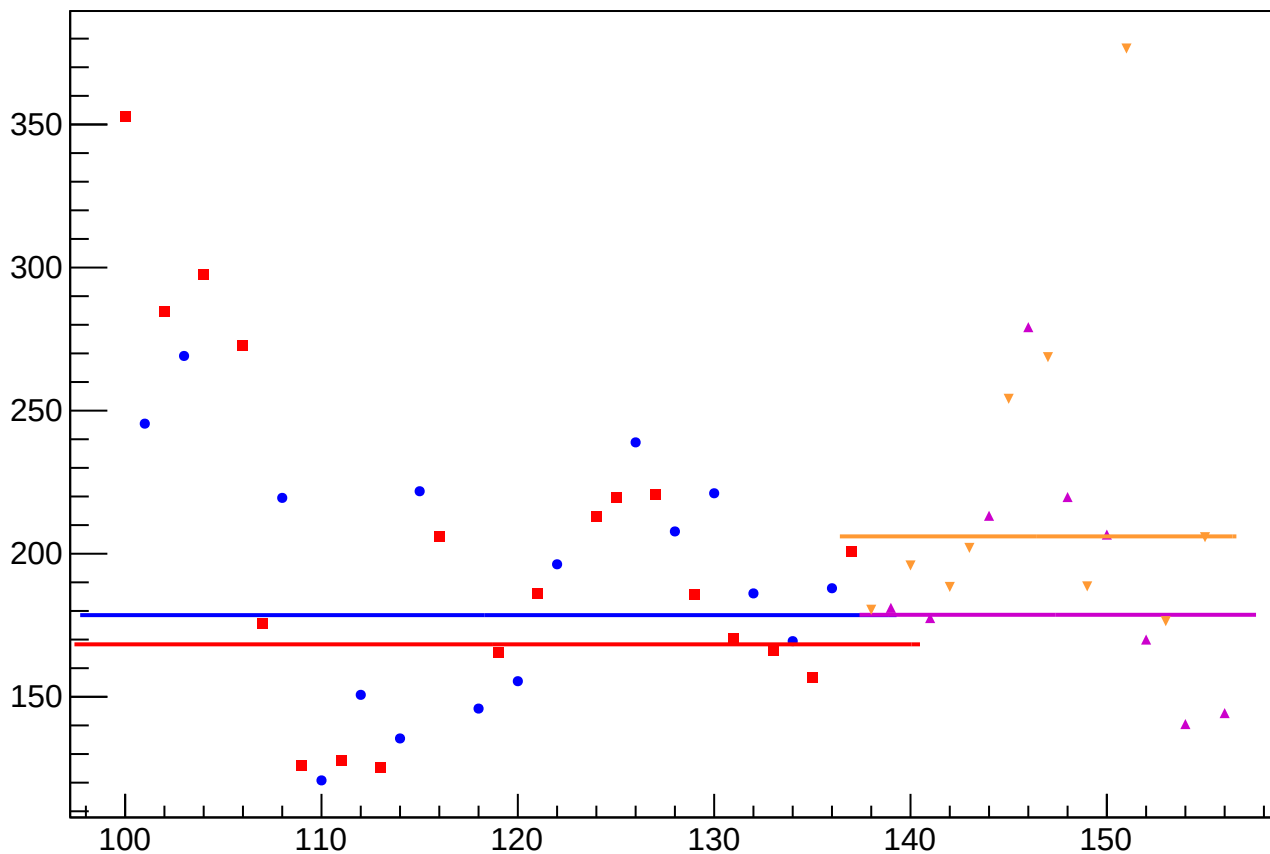
Right: -233.460+/-47.334 χ^2/NDF : 10606.3/34

In: -5822.252+/-48.215 χ^2/NDF : 39588.7/24

Out: -4493.906+/-49.370 χ^2/NDF : 11116.4/28

All: -5173.800+/-34.495 χ^2/NDF : 51075.7/53

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541+/-0.049 χ^2/NDF : 674566.0/15

Left Out: 206.057+/-0.054 χ^2/NDF : 570948.8/9

Right Out: 168.335+/-0.046 χ^2/NDF : 979485.9/18

Left In: 178.657+/-0.047 χ^2/NDF : 584849.9/8

Left: 190.649+/-0.036 χ^2/NDF : 1301435.9/18

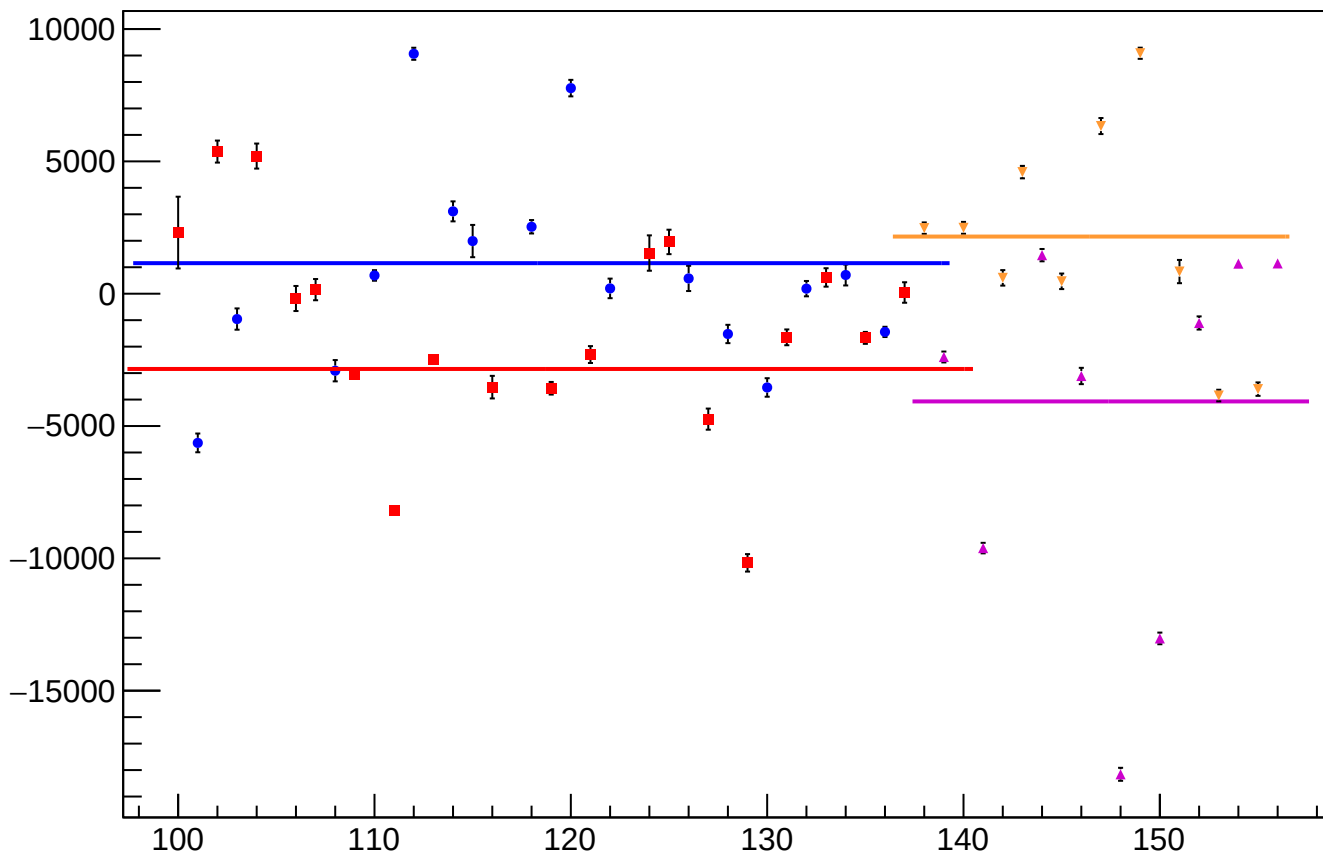
Right: 173.104+/-0.033 χ^2/NDF : 1677198.9/34

In: 178.601+/-0.034 χ^2/NDF : 1259418.9/24

Out: 184.194+/-0.035 χ^2/NDF : 1834944.0/28

All: 181.331+/-0.024 χ^2/NDF : 3107501.0/53

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1153.823+/-75.957 χ^2/NDF : 2655.3/15

Left Out: 2159.151+/-79.769 χ^2/NDF : 2710.1/9

Right Out: -2843.895+/-69.139 χ^2/NDF : 2453.1/18

Left In: -4070.457+/-70.672 χ^2/NDF : 8378.1/8

Left: -1330.984+/-52.898 χ^2/NDF : 14505.1/18

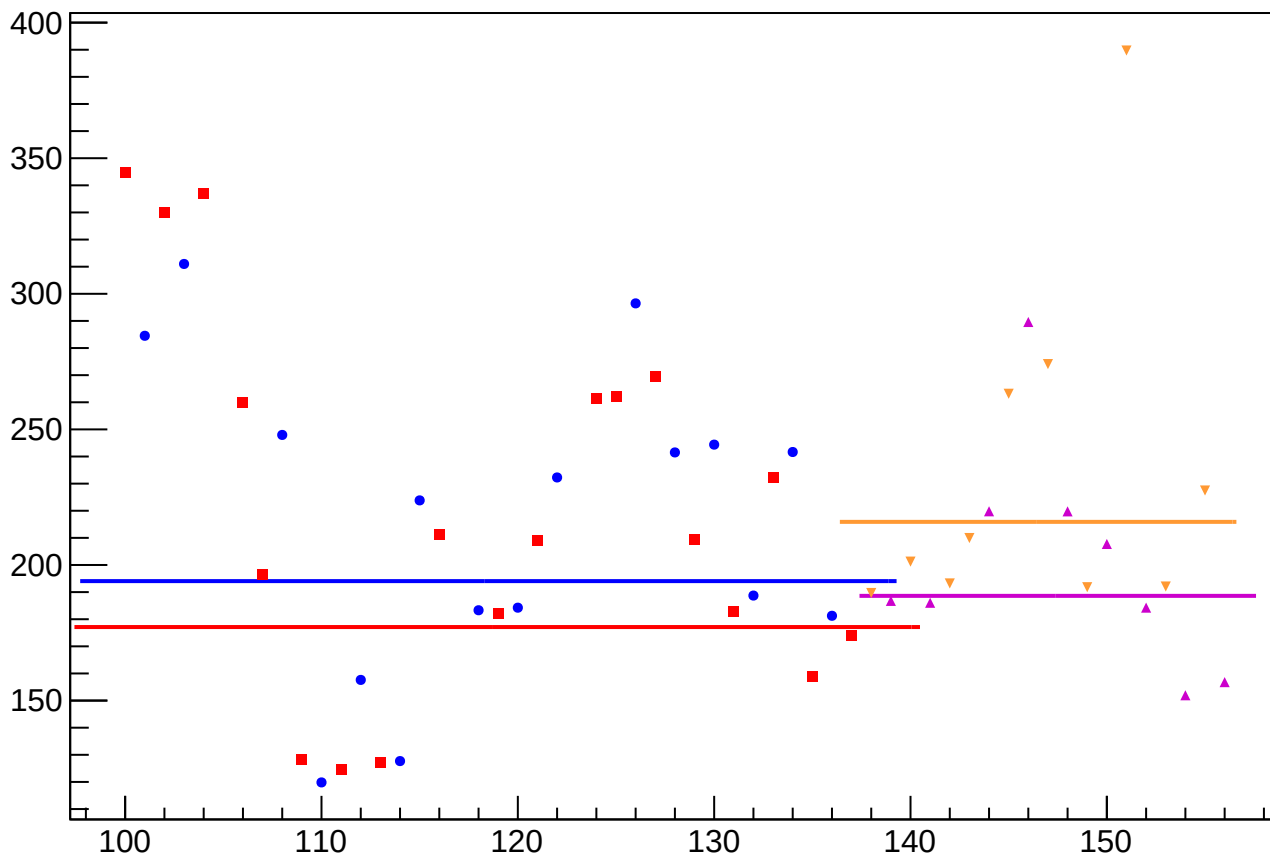
Right: -1032.468+/-51.129 χ^2/NDF : 6623.4/34

In: -1646.358+/-51.740 χ^2/NDF : 13569.0/24

Out: -697.723+/-52.246 χ^2/NDF : 7409.5/28

All: -1176.652+/-36.763 χ^2/NDF : 21144.9/53

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 215.905+/-0.056 χ^2/NDF :543029.1/9

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 188.617+/-0.050 χ^2/NDF :463269.2/8

Left: 200.617+/-0.037 χ^2/NDF : 1137420.4/18

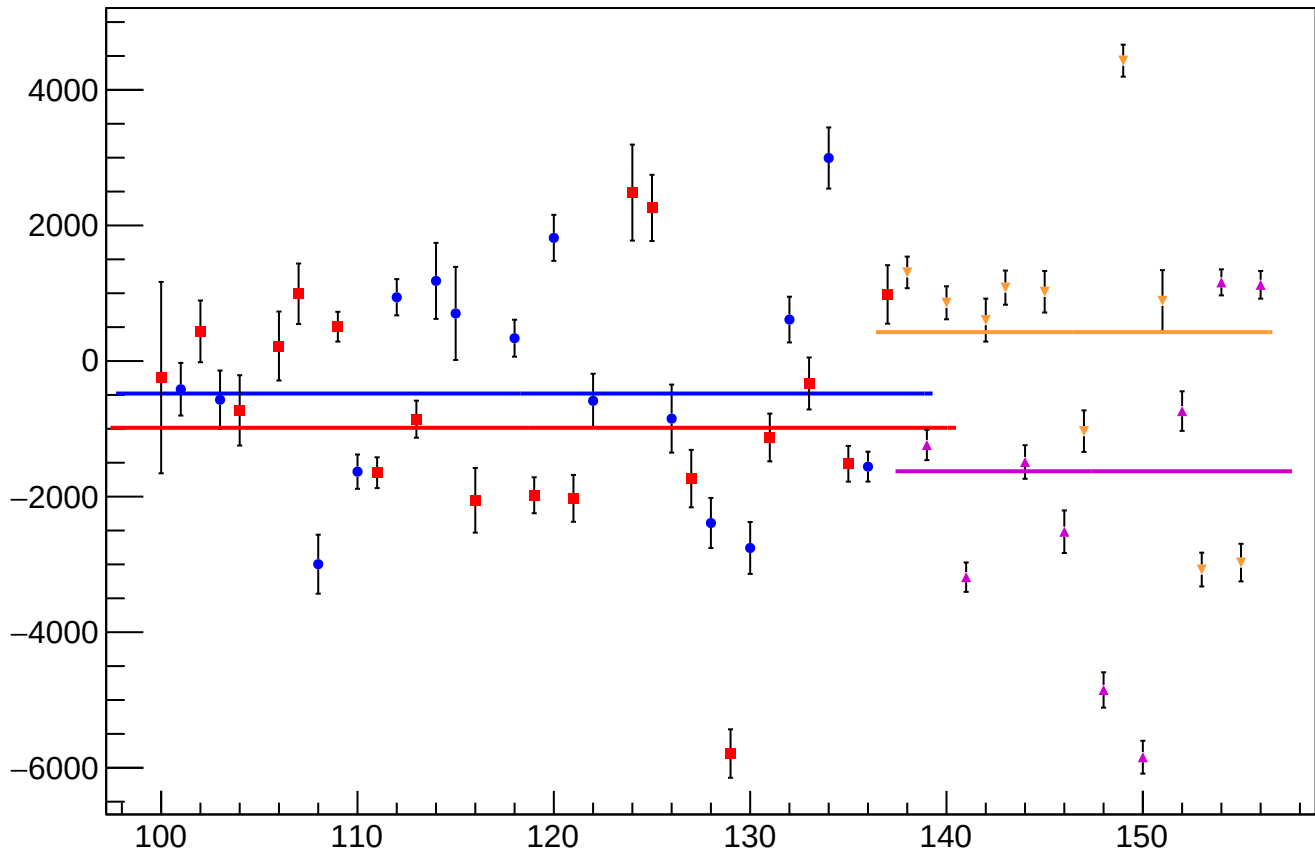
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 191.139+/-0.037 χ^2/NDF :1434546.1/24

Out: 193.755+/-0.037 χ^2/NDF :2172424.4/28

All: 192.434+/-0.026 χ^2/NDF : 3609501.1/53

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302 ± 86.685 $\chi^2/\text{NDF}: 305.4/15$

Left Out: 426.086 ± 86.315 $\chi^2/\text{NDF}: 687.3/9$

Right Out: -984.498 ± 80.945 $\chi^2/\text{NDF}: 398.1/18$

Left In: -1626.108 ± 78.511 $\chi^2/\text{NDF}: 920.0/8$

Left: -696.952 ± 58.079 $\chi^2/\text{NDF}: 1916.6/18$

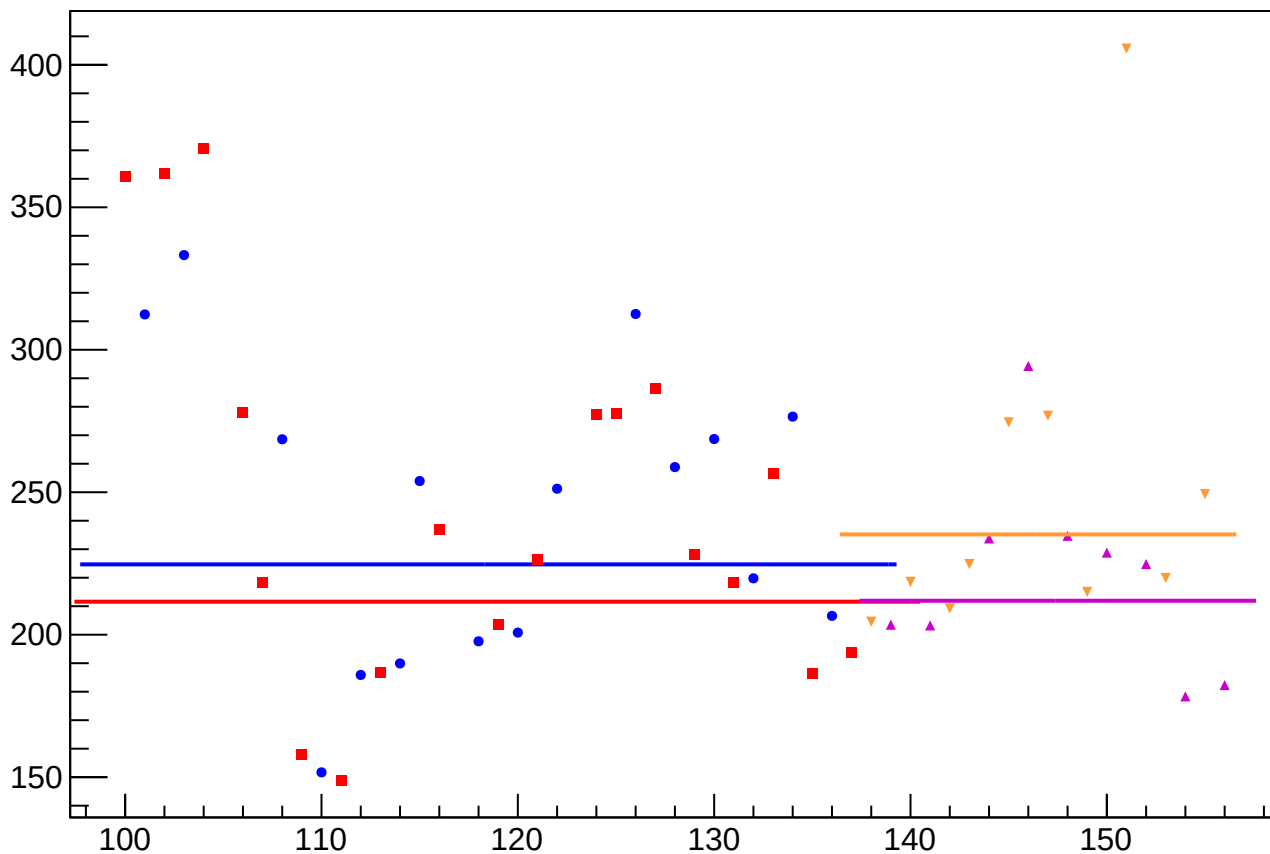
Right: -749.177 ± 59.162 $\chi^2/\text{NDF}: 721.7/34$

In: -1109.308 ± 58.192 $\chi^2/\text{NDF}: 1321.6/24$

Out: -324.444 ± 59.044 $\chi^2/\text{NDF}: 1227.5/28$

All: -722.583 ± 41.446 $\chi^2/\text{NDF}: 2638.7/53$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683+/-0.061 χ^2/NDF : 653193.4/15

Left Out: 235.197+/-0.061 χ^2/NDF : 440435.6/9

Right Out: 211.595+/-0.057 χ^2/NDF : 932902.5/18

Left In: 211.922+/-0.056 χ^2/NDF : 291351.4/8

Left: 222.460+/-0.041 χ^2/NDF : 811366.0/18

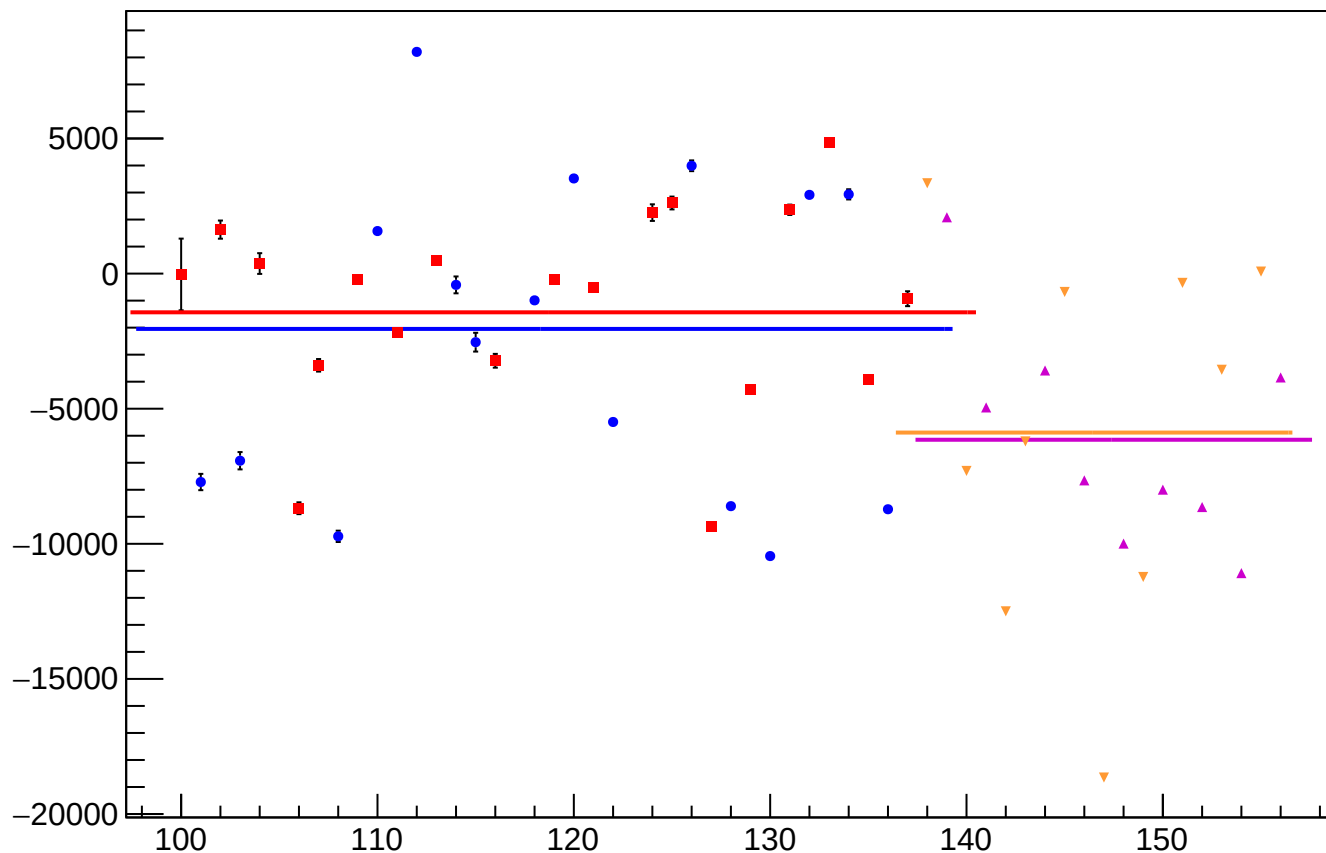
Right: 217.691+/-0.042 χ^2/NDF : 1610450.2/34

In: 217.673+/-0.041 χ^2/NDF : 968353.4/24

Out: 222.639+/-0.042 χ^2/NDF : 1452902.2/28

All: 220.120+/-0.029 χ^2/NDF : 2428433.4/53

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267+/-46.722 χ^2/NDF : 16709.1/15

Left Out: -5882.971+/-41.094 χ^2/NDF : 25581.6/9

Right Out: -1432.909+/-44.729 χ^2/NDF : 6387.8/18

Left In: -6149.103+/-41.877 χ^2/NDF : 8253.7/8

Left: -6013.525+/-29.331 χ^2/NDF : 33855.8/18

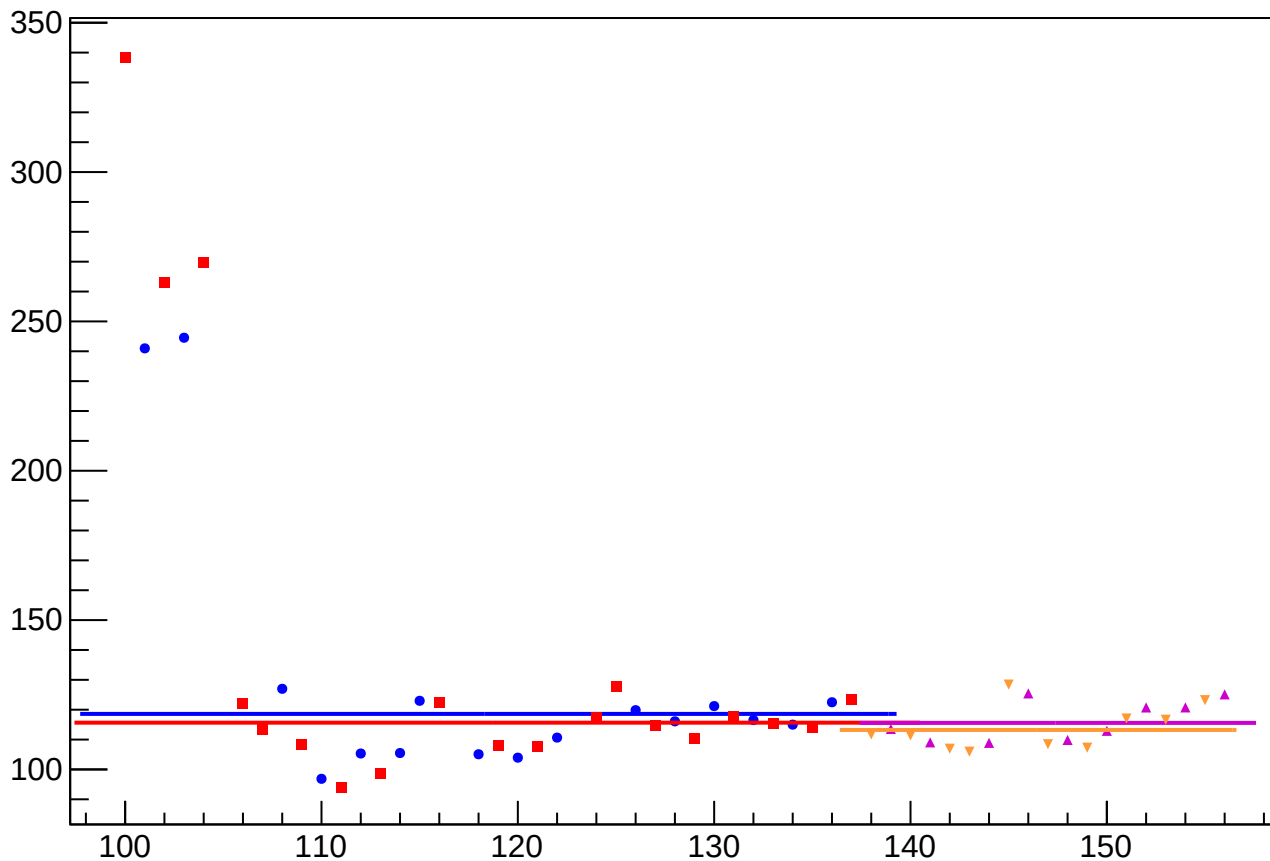
Right: -1726.707+/-32.310 χ^2/NDF : 23187.1/34

In: -4321.821+/-31.184 χ^2/NDF : 29236.8/24

Out: -3846.104+/-30.261 χ^2/NDF : 37337.0/28

All: -4076.819+/-21.717 χ^2/NDF : 66693.6/53

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 118.596+/-0.033 χ^2/NDF : 734158.7/15

Left Out: 113.225+/-0.029 χ^2/NDF : 54941.0/9

Right Out: 115.660+/-0.032 χ^2/NDF : 864206.3/18

Left In: 115.585+/-0.030 χ^2/NDF : 45276.8/8

Left: 114.383+/-0.021 χ^2/NDF : 103454.9/18

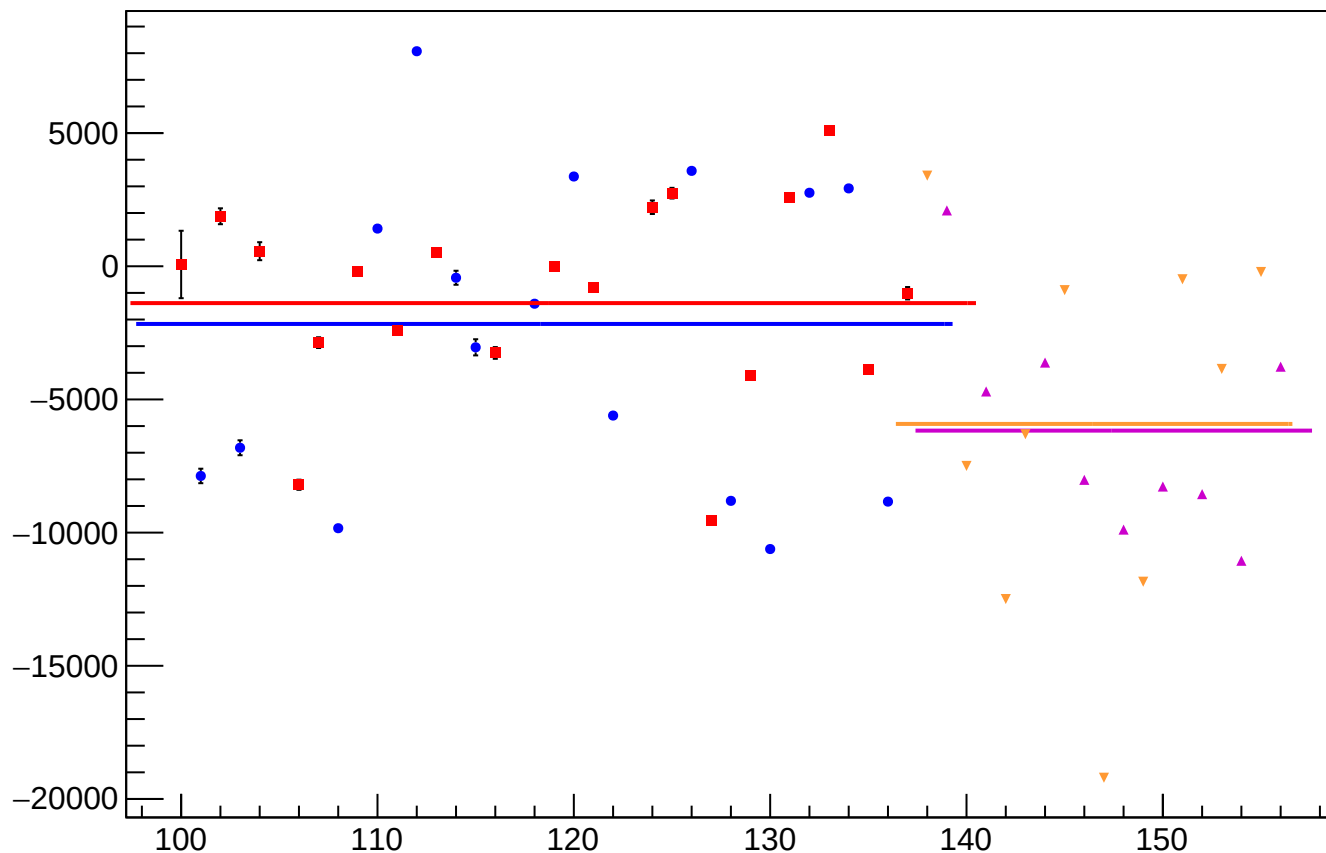
Right: 117.064+/-0.023 χ^2/NDF : 1602486.6/34

In: 116.927+/-0.022 χ^2/NDF : 784039.6/24

Out: 114.339+/-0.021 χ^2/NDF : 922360.4/28

All: 115.594+/-0.015 χ^2/NDF : 1713489.6/53

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2165.877+/-39.632 χ^2/NDF : 22874.8/15

Left Out: -5919.263+/-37.250 χ^2/NDF : 31005.8/9

Right Out: -1383.103+/-37.976 χ^2/NDF : 9148.6/18

Left In: -6170.489+/-38.417 χ^2/NDF : 10051.9/8

Left: -6041.004+/-26.743 χ^2/NDF : 41079.7/18

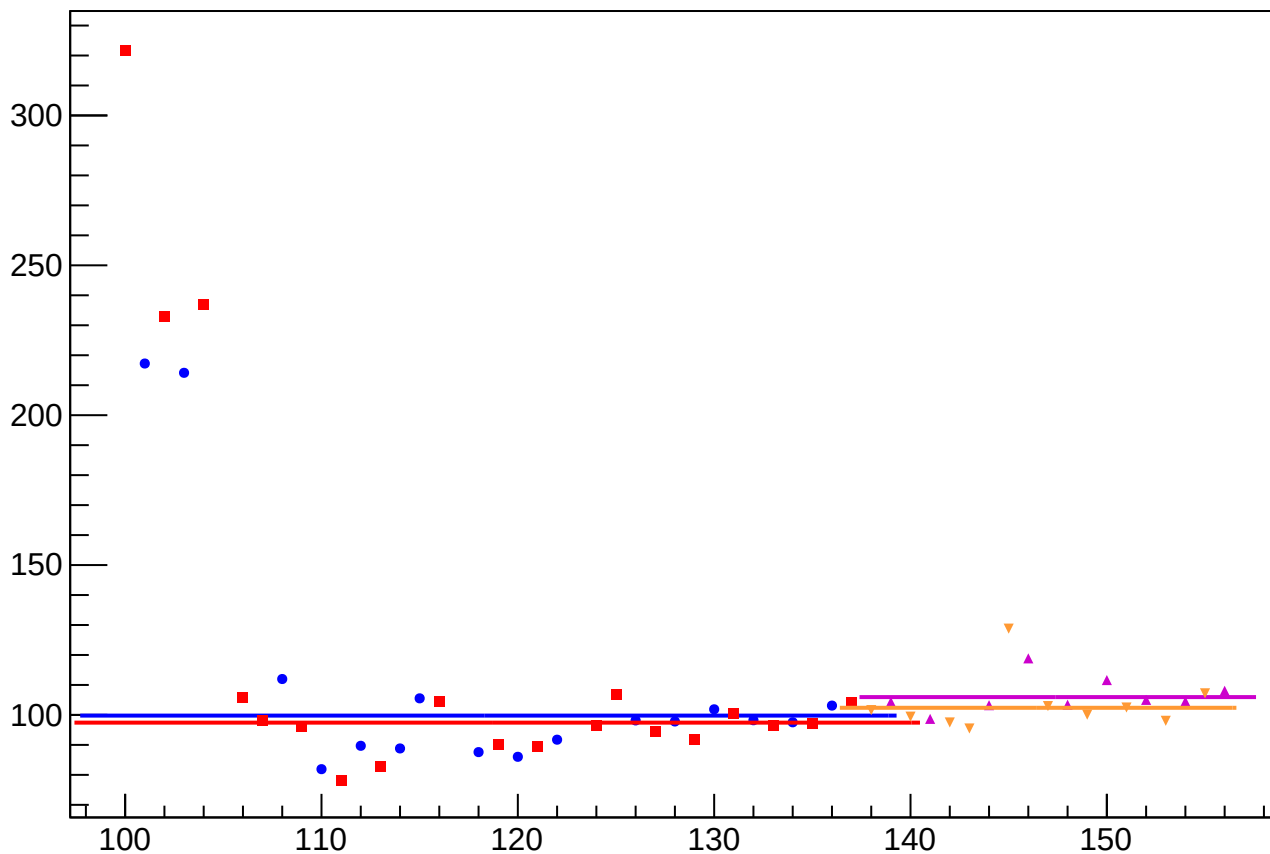
Right: -1757.793+/-27.420 χ^2/NDF : 32226.8/34

In: -4230.515+/-27.584 χ^2/NDF : 38190.7/24

Out: -3694.925+/-26.593 χ^2/NDF : 47425.9/28

All: -3952.920+/-19.145 χ^2/NDF : 85812.0/53

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 99.775 ± 0.028 $\chi^2/\text{NDF}: 809152.9/15$

Left Out: 102.380 ± 0.026 $\chi^2/\text{NDF}: 85158.5/9$

Right Out: 97.428 ± 0.027 $\chi^2/\text{NDF}: 926047.7/18$

Left In: 105.948 ± 0.027 $\chi^2/\text{NDF}: 38264.1/8$

Left: 104.109 ± 0.019 $\chi^2/\text{NDF}: 132317.5/18$

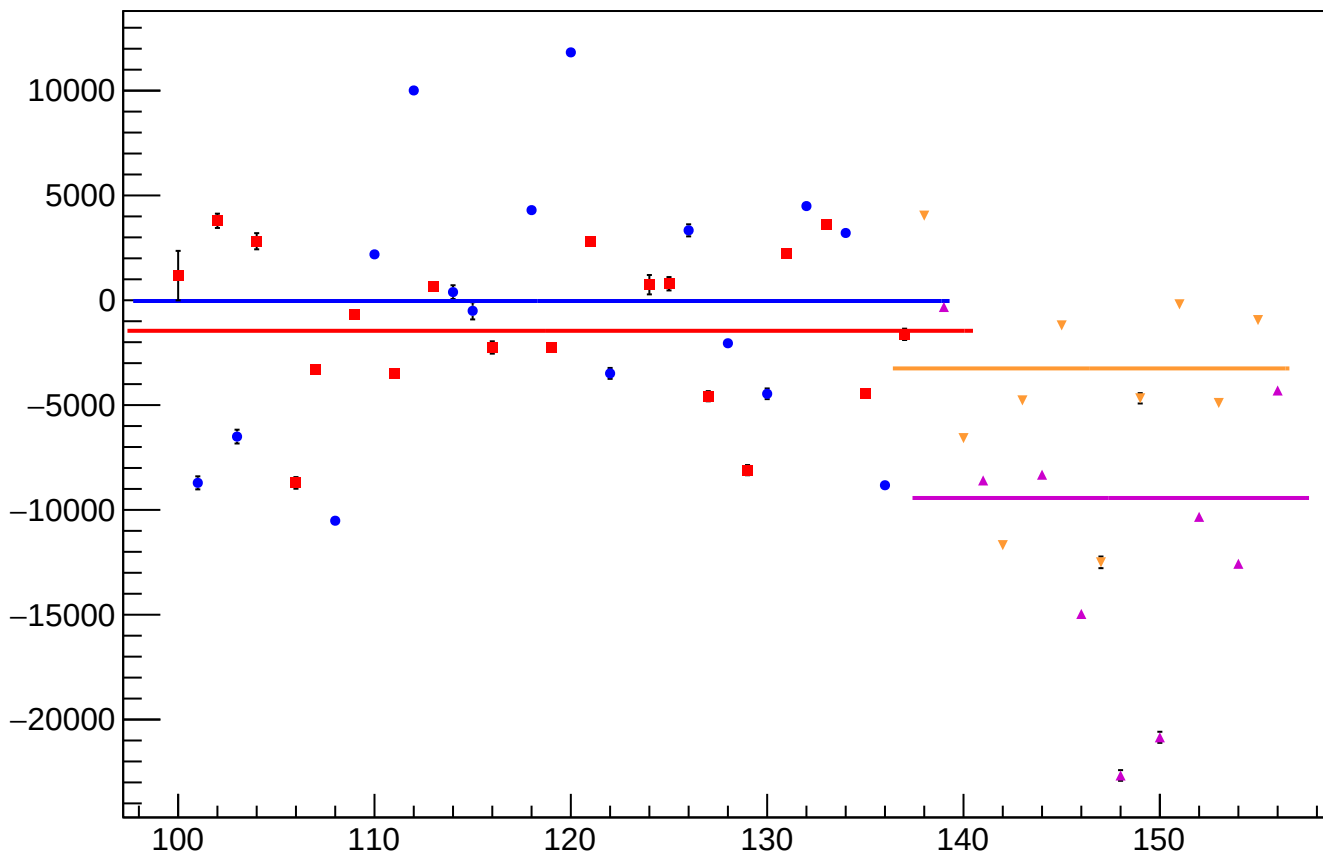
Right: 98.551 ± 0.019 $\chi^2/\text{NDF}: 1738857.3/34$

In: 102.958 ± 0.020 $\chi^2/\text{NDF}: 872439.1/24$

Out: 99.951 ± 0.019 $\chi^2/\text{NDF}: 1028539.3/28$

All: 101.399 ± 0.014 $\chi^2/\text{NDF}: 1913289.9/53$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -34.667 $\pm$ 53.465 χ^2/NDF : 16802.8/15

Left Out: -3251.276 $\pm$ 57.294 χ^2/NDF : 5860.0/9

Right Out: -1456.665 $\pm$ 51.946 χ^2/NDF : 4117.0/18

Left In: -9431.456 $\pm$ 59.333 χ^2/NDF : 10172.7/8

Left: -6233.383 $\pm$ 41.215 χ^2/NDF : 21647.2/18

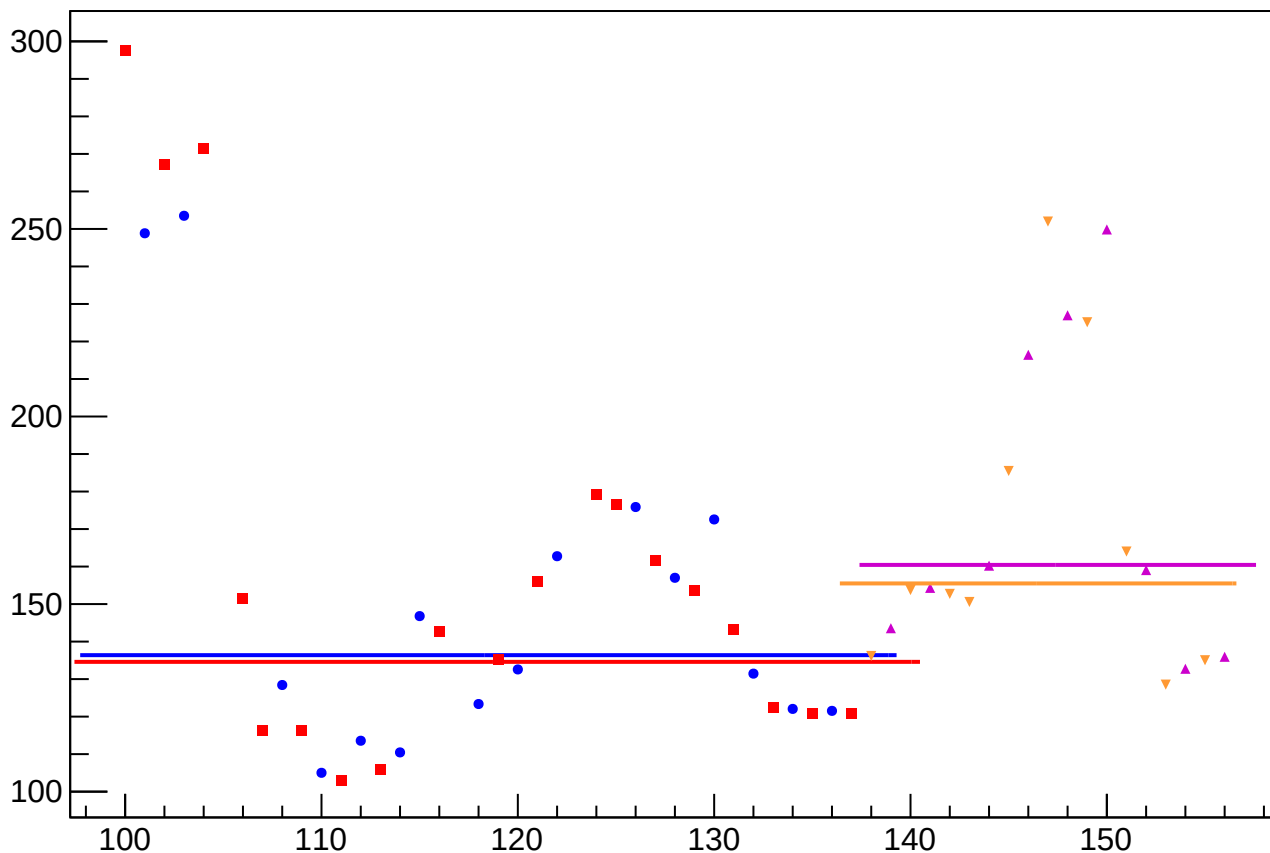
Right: -766.160 $\pm$ 37.257 χ^2/NDF : 21283.7/34

In: -4245.595 $\pm$ 39.719 χ^2/NDF : 40818.0/24

Out: -2266.315 $\pm$ 38.484 χ^2/NDF : 10515.5/28

All: -3224.706 $\pm$ 27.638 χ^2/NDF : 52614.4/53

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 136.383 $\pm$ 0.038 χ^2 /NDF: 796855.7/15

Left Out: 155.503 $\pm$ 0.041 χ^2 /NDF: 588146.6/9

Right Out: 134.598 $\pm$ 0.037 χ^2 /NDF: 919605.2/18

Left In: 160.442 $\pm$ 0.042 χ^2 /NDF: 638869.0/8

Left: 157.886 $\pm$ 0.029 χ^2 /NDF: 1234189.1/18

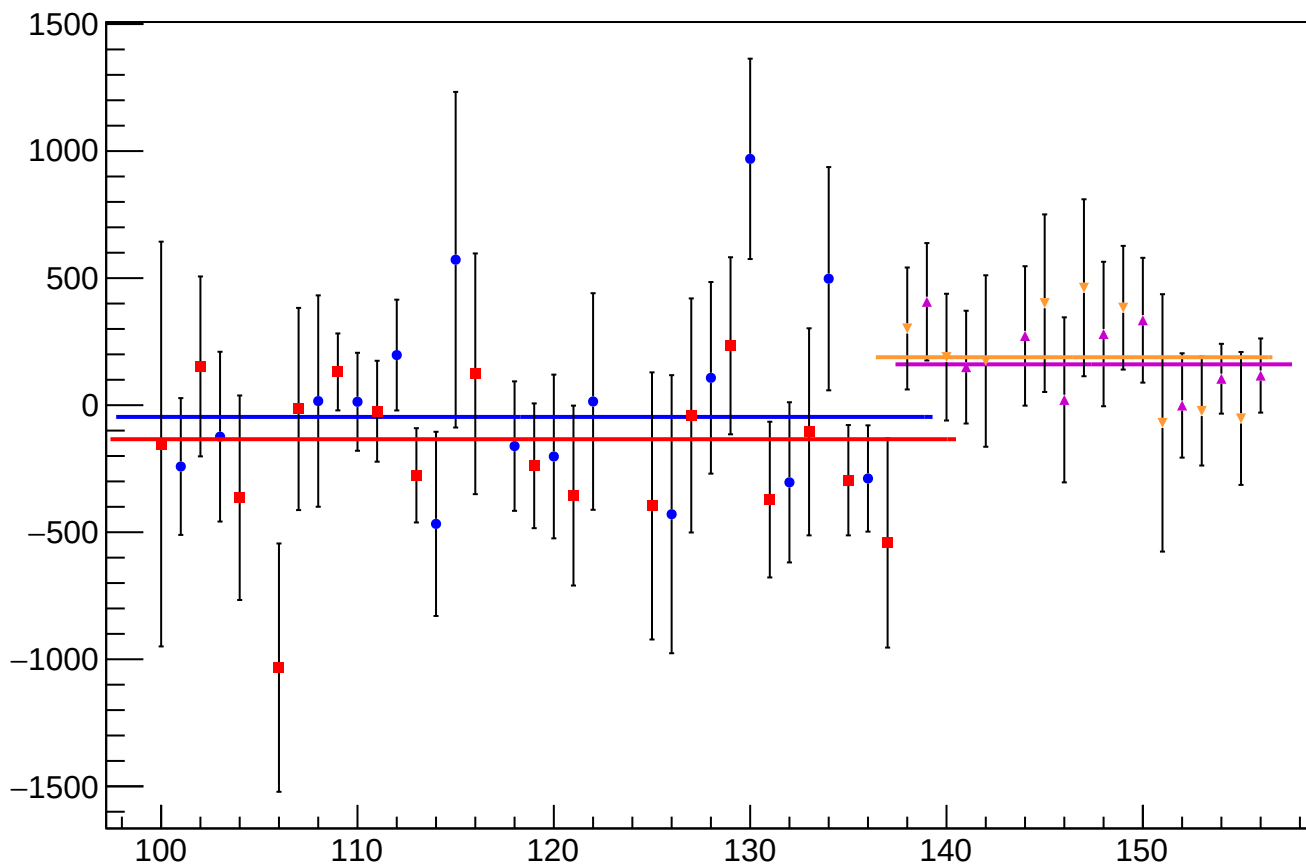
Right: 135.465 $\pm$ 0.026 χ^2 /NDF: 1717607.6/34

In: 147.165 $\pm$ 0.028 χ^2 /NDF: 1617208.2/24

Out: 144.029 $\pm$ 0.027 χ^2 /NDF: 1653876.3/28

All: 145.548 $\pm$ 0.020 χ^2 /NDF: 3277512.4/53

asym_bcm_2an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -46.199 ± 76.283 χ^2/NDF : 15.5/15

Left Out: 188.690 ± 92.935 χ^2/NDF : 3.9/8

Right Out: -133.913 ± 68.414 χ^2/NDF : 12.8/17

Left In: 160.723 ± 68.288 χ^2/NDF : 3.0/8

Left: 170.529 ± 55.029 χ^2/NDF : 7.0/17

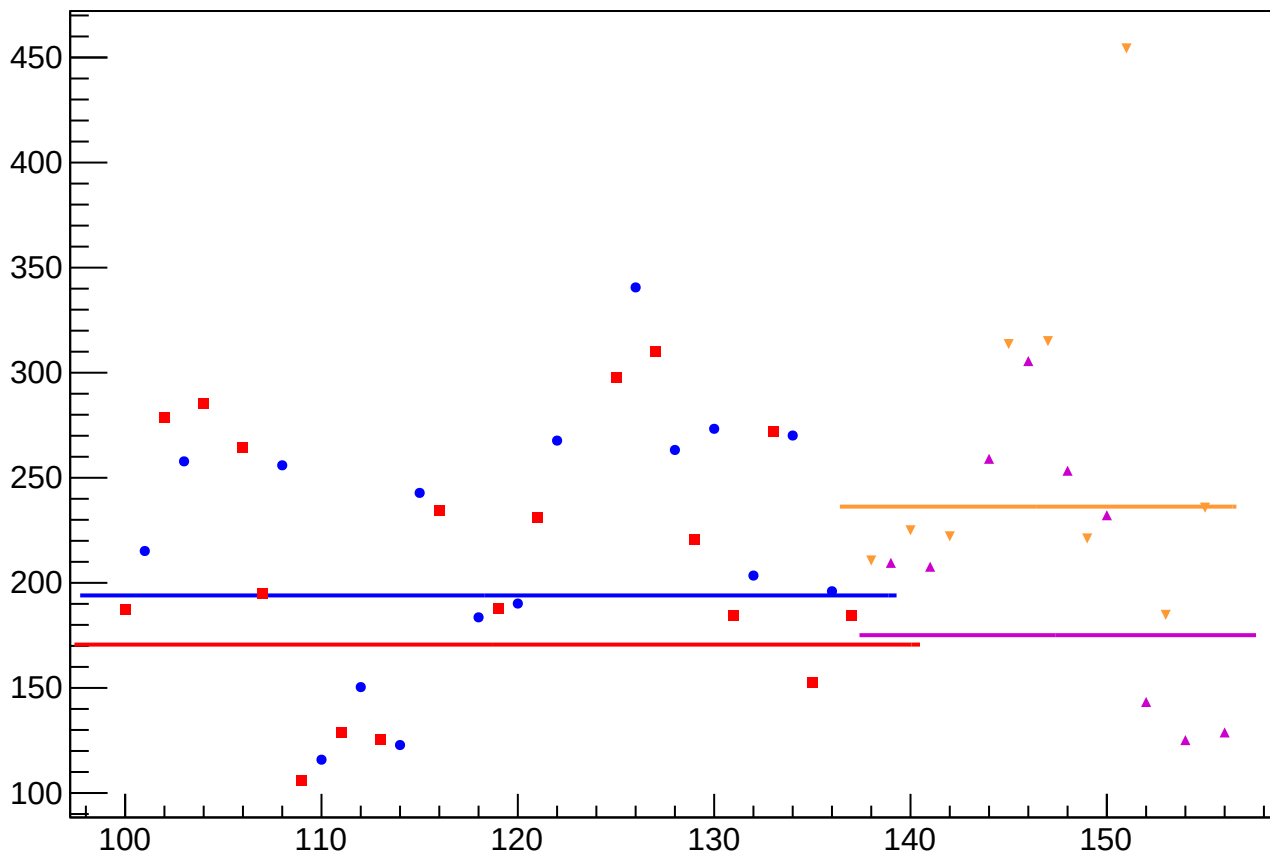
Right: -94.812 ± 50.931 χ^2/NDF : 29.0/33

In: 68.671 ± 50.879 χ^2/NDF : 22.6/24

Out: -20.533 ± 55.095 χ^2/NDF : 24.6/26

All: 27.612 ± 37.379 χ^2/NDF : 48.6/51

asym_bcm_2an_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 194.017 $\pm$ 0.054 χ^2 /NDF: 1043588.7/15

Left Out: 236.275 $\pm$ 0.066 χ^2 /NDF: 724275.9/8

Right Out: 170.624 $\pm$ 0.048 χ^2 /NDF: 1593735.4/17

Left In: 175.114 $\pm$ 0.048 χ^2 /NDF: 1370065.1/8

Left: 196.558 $\pm$ 0.039 χ^2 /NDF: 2656852.3/17

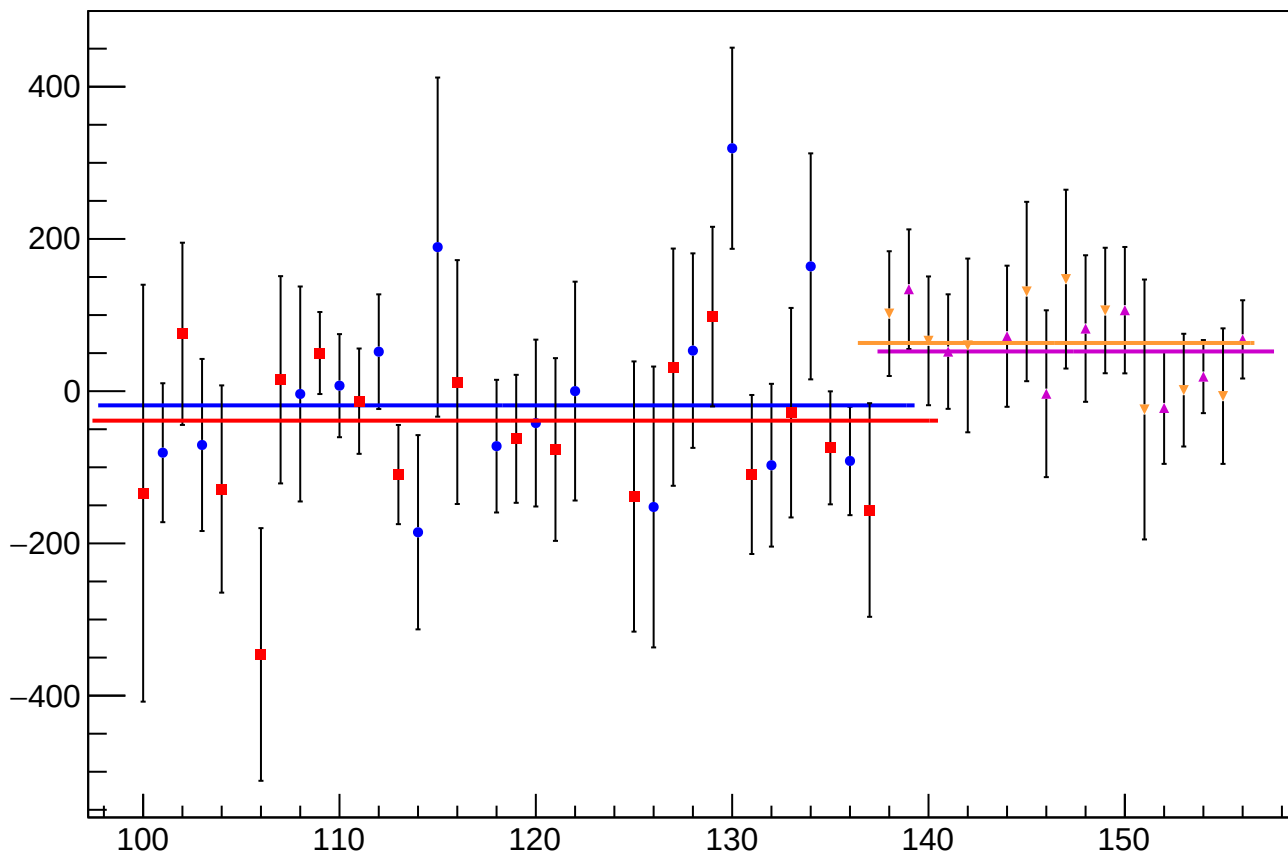
Right: 181.052 $\pm$ 0.036 χ^2 /NDF: 2741566.5/33

In: 183.523 $\pm$ 0.036 χ^2 /NDF: 2481830.7/24

Out: 193.697 $\pm$ 0.039 χ^2 /NDF: 2965312.2/26

All: 188.206 $\pm$ 0.026 χ^2 /NDF: 5483951.7/51

asym_bcm_2an_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -18.645 ± 26.122 $\chi^2/\text{NDF}: 15.2/15$

Left Out: 63.338 ± 31.626 $\chi^2/\text{NDF}: 2.9/8$

Right Out: -38.716 ± 23.652 $\chi^2/\text{NDF}: 12.6/17$

Left In: 52.182 ± 23.647 $\chi^2/\text{NDF}: 3.5/8$

Left: 56.182 ± 18.939 $\chi^2/\text{NDF}: 6.5/17$

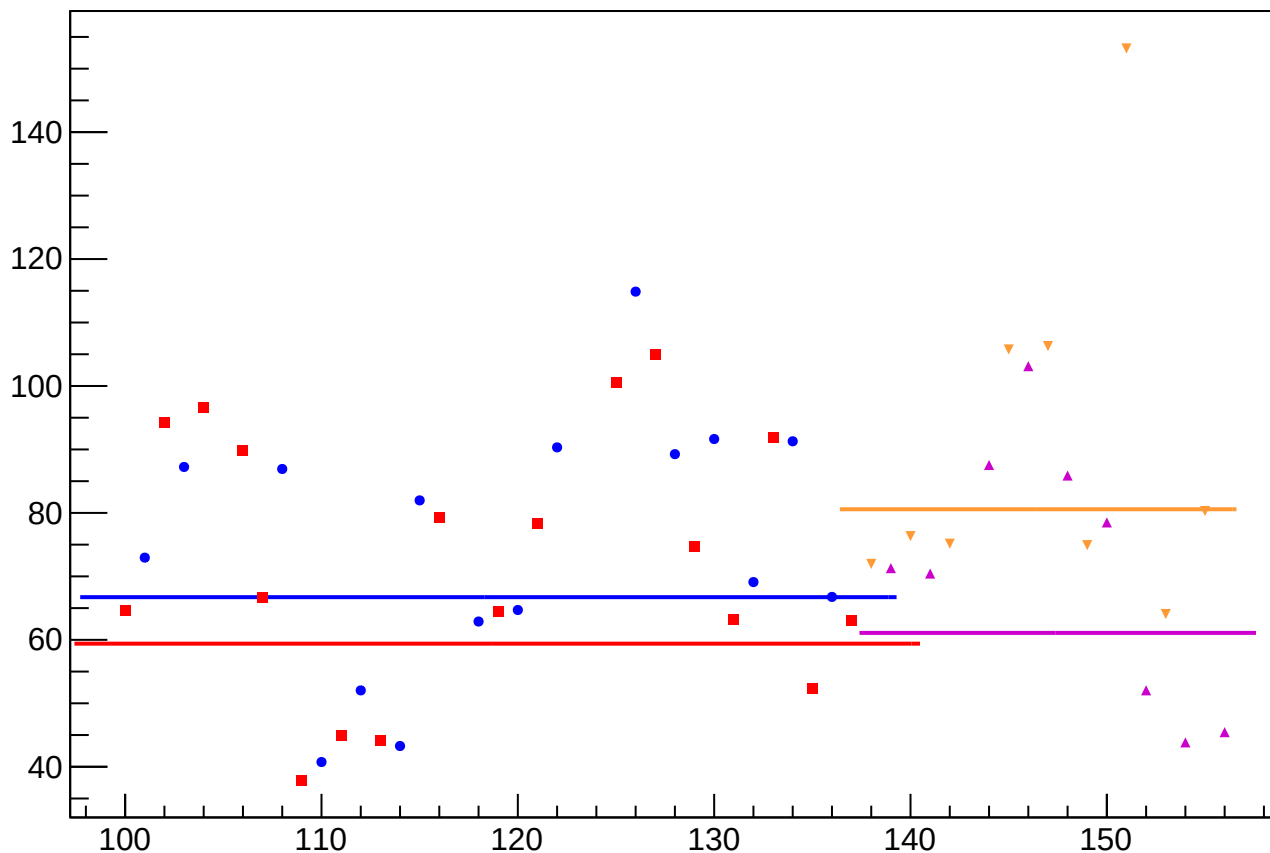
Right: -29.674 ± 17.533 $\chi^2/\text{NDF}: 28.2/33$

In: 20.282 ± 17.531 $\chi^2/\text{NDF}: 22.7/24$

Out: -2.111 ± 18.941 $\chi^2/\text{NDF}: 22.2/26$

All: 9.950 ± 12.866 $\chi^2/\text{NDF}: 45.7/51$

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: 80.577 $\pm$ 0.022 χ^2 /NDF: 689332.3/8

Right Out: 59.400 $\pm$ 0.017 χ^2 /NDF: 1445371.1/17

Left In: 61.098 $\pm$ 0.017 χ^2 /NDF: 1215738.5/8

Left: 68.083 $\pm$ 0.013 χ^2 /NDF: 2391730.6/17

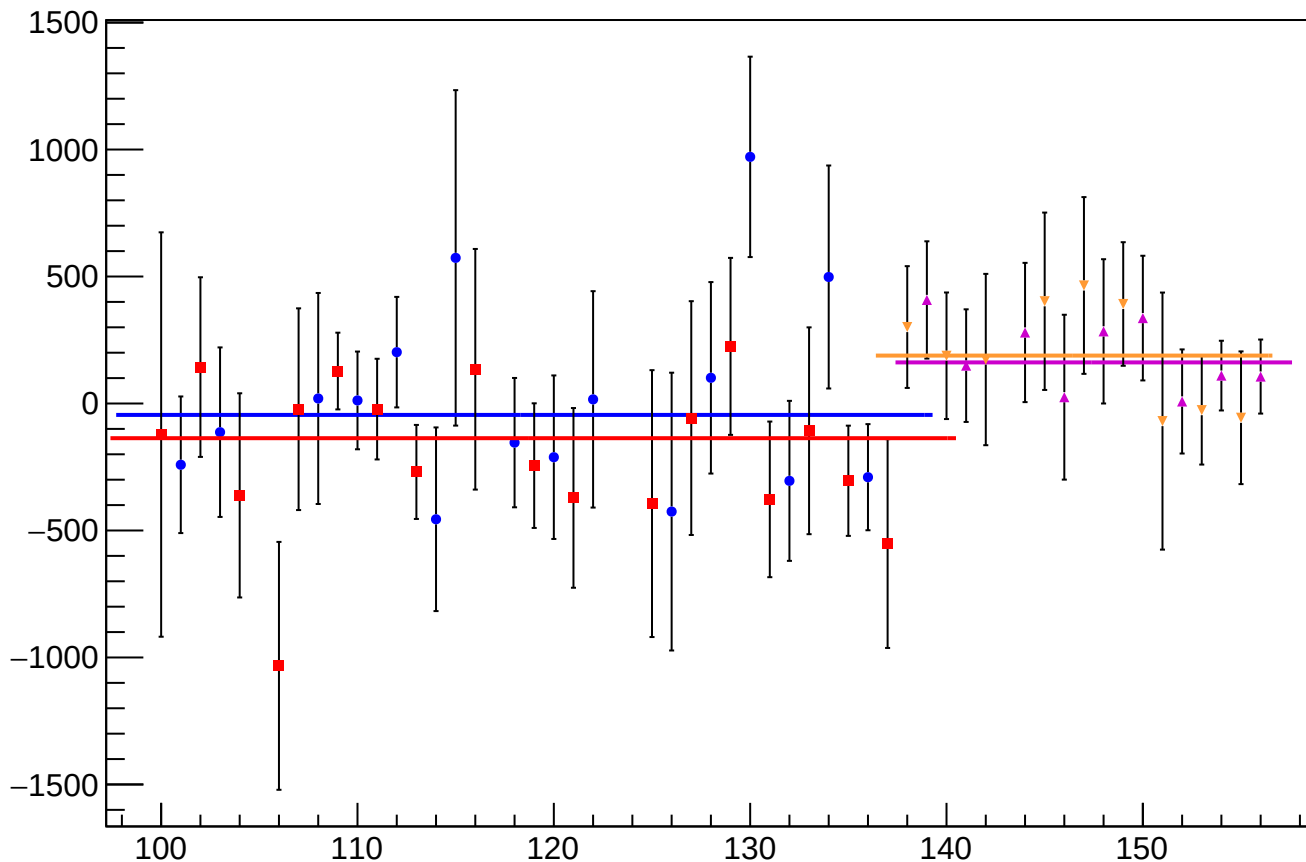
Right: 62.700 $\pm$ 0.012 χ^2 /NDF: 2478799.5/33

In: 63.632 $\pm$ 0.012 χ^2 /NDF: 2213776.9/24

Out: 66.996 $\pm$ 0.013 χ^2 /NDF: 2709779.2/26

All: 65.184 $\pm$ 0.009 χ^2 /NDF: 4957541.3/51

asym_bcm_an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -44.917 ± 76.198 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 188.694 ± 92.857 $\chi^2/\text{NDF}: 4.1/8$

Right Out: -136.579 ± 68.322 $\chi^2/\text{NDF}: 12.9/17$

Left In: 161.795 ± 68.222 $\chi^2/\text{NDF}: 3.0/8$

Left: 171.224 ± 54.979 $\chi^2/\text{NDF}: 7.2/17$

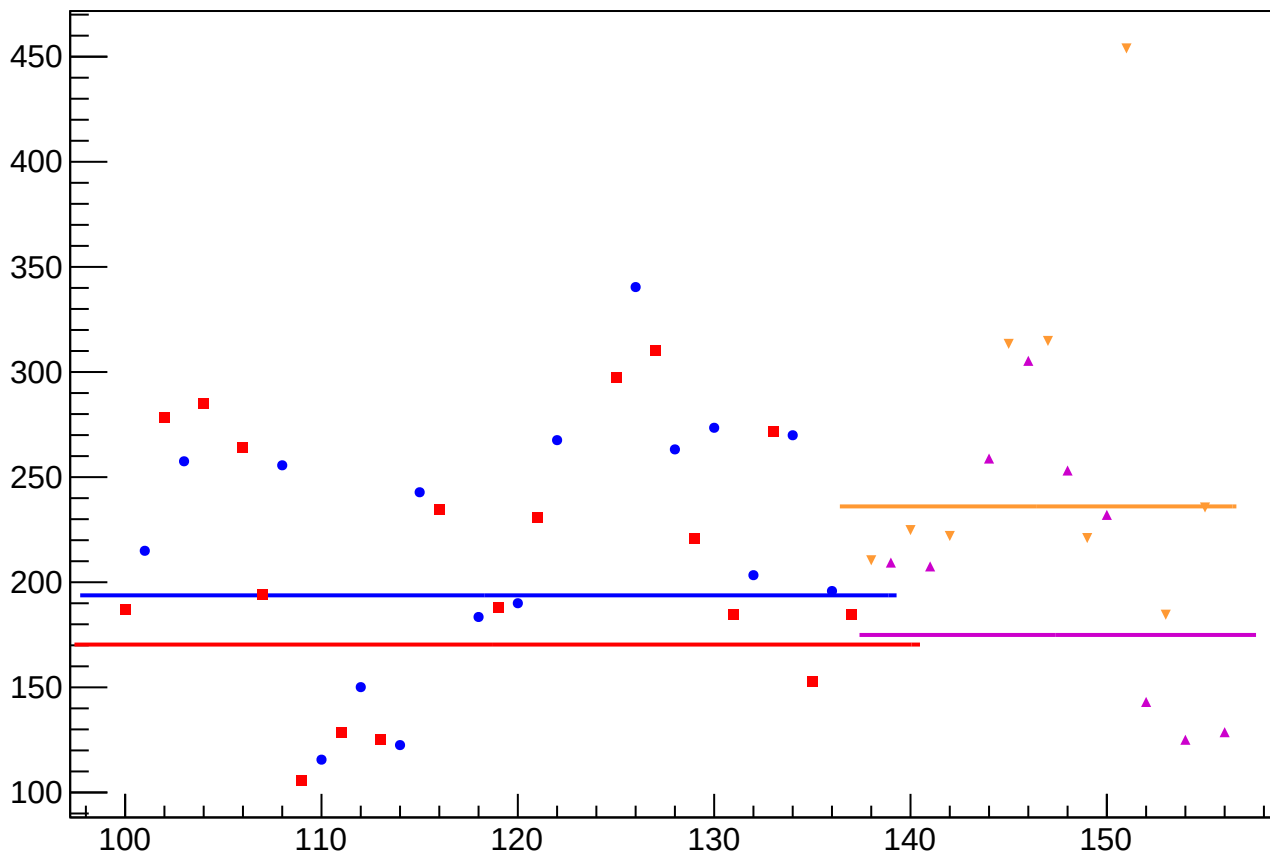
Right: -95.728 ± 50.868 $\chi^2/\text{NDF}: 29.1/33$

In: 69.821 ± 50.827 $\chi^2/\text{NDF}: 22.6/24$

Out: -22.335 ± 55.031 $\chi^2/\text{NDF}: 24.9/26$

All: 27.398 ± 37.338 $\chi^2/\text{NDF}: 49.0/51$

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: 236.072 $\pm$ 0.066 χ^2 /NDF: 724636.2/8

Right Out: 170.358 $\pm$ 0.048 χ^2 /NDF: 1599025.1/17

Left In: 174.931 $\pm$ 0.048 χ^2 /NDF: 1371530.5/8

Left: 196.365 $\pm$ 0.039 χ^2 /NDF: 2659292.6/17

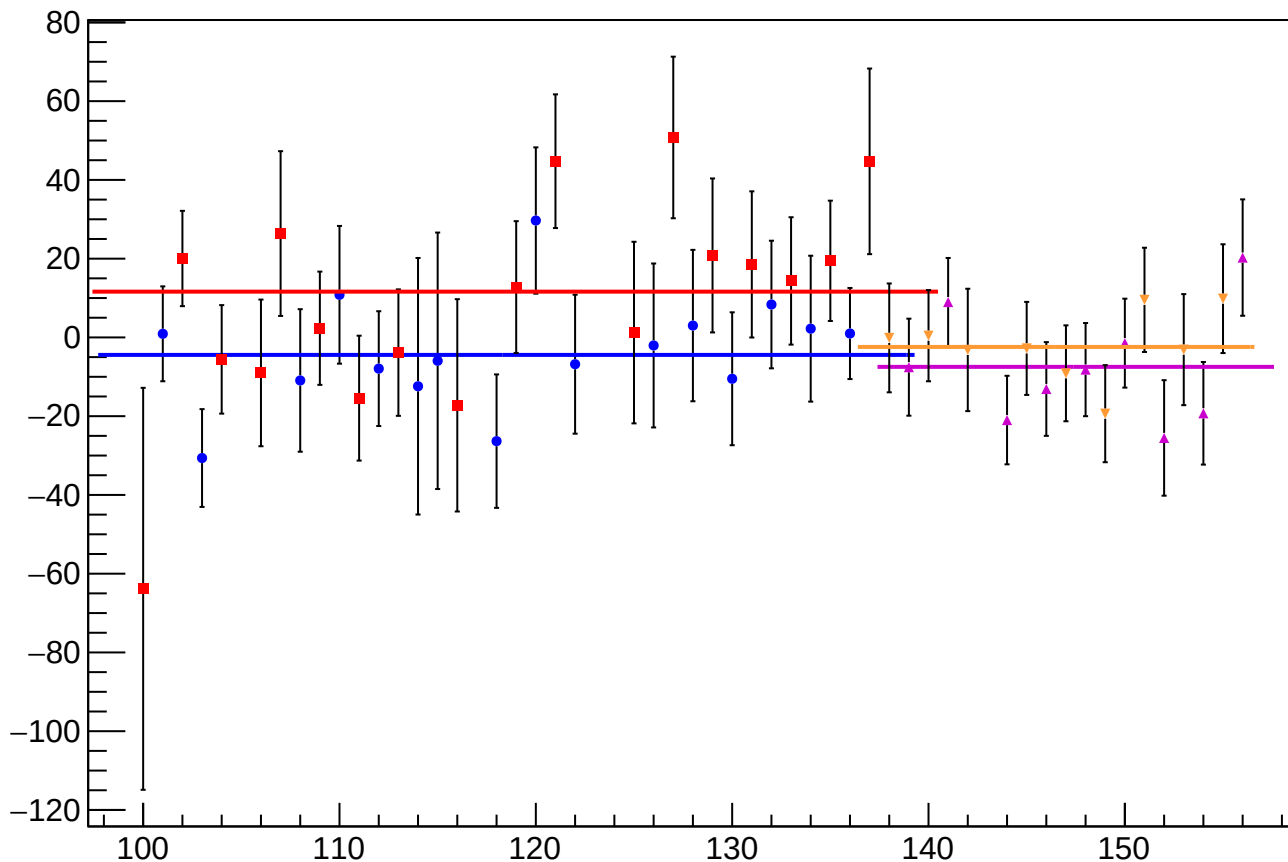
Right: 180.791 $\pm$ 0.036 χ^2 /NDF: 2751765.9/33

In: 183.312 $\pm$ 0.036 χ^2 /NDF: 2487463.8/24

Out: 193.438 $\pm$ 0.039 χ^2 /NDF: 2973517.8/26

All: 187.974 $\pm$ 0.026 χ^2 /NDF: 5497524.3/51

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: -2.417 ± 4.331 χ^2/NDF : 3.9/8

Right Out: 11.627 ± 4.137 χ^2/NDF : 21.6/17

Left In: -7.475 ± 4.095 χ^2/NDF : 10.0/8

Left: -5.088 ± 2.975 χ^2/NDF : 14.6/17

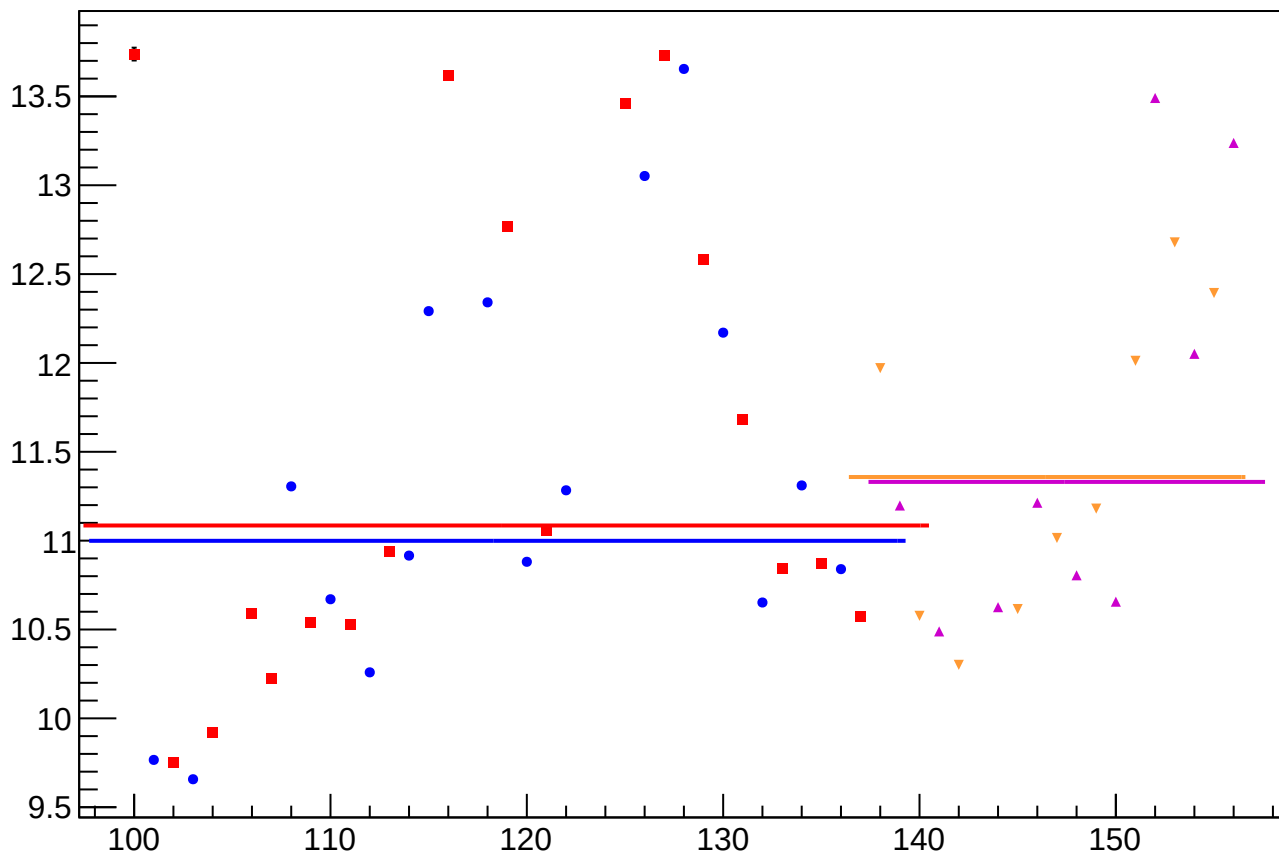
Right: 3.582 ± 2.923 χ^2/NDF : 41.2/33

In: -5.971 ± 2.908 χ^2/NDF : 22.2/24

Out: 4.928 ± 2.991 χ^2/NDF : 31.0/26

All: -0.676 ± 2.085 χ^2/NDF : 60.1/51

asym_bcm_an_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 10.999 ± 0.003 $\chi^2/\text{NDF}: 136159.2/15$

Left Out: 11.358 ± 0.003 $\chi^2/\text{NDF}: 65865.7/8$

Right Out: 11.085 ± 0.003 $\chi^2/\text{NDF}: 162204.2/17$

Left In: 11.331 ± 0.003 $\chi^2/\text{NDF}: 113500.1/8$

Left: 11.344 ± 0.002 $\chi^2/\text{NDF}: 179408.4/17$

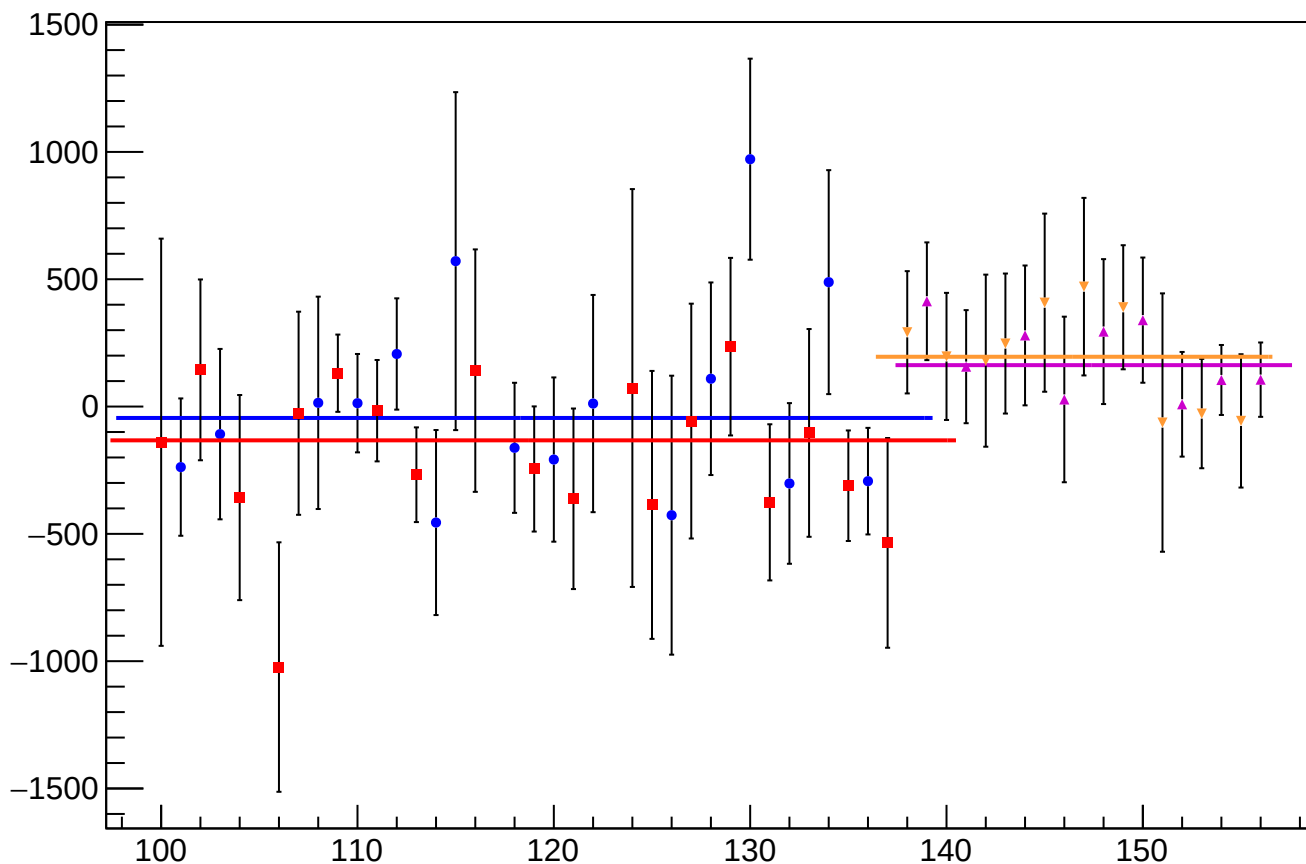
Right: 11.042 ± 0.002 $\chi^2/\text{NDF}: 298798.9/33$

In: 11.166 ± 0.002 $\chi^2/\text{NDF}: 256156.6/24$

Out: 11.215 ± 0.002 $\chi^2/\text{NDF}: 232219.1/26$

All: 11.190 ± 0.001 $\chi^2/\text{NDF}: 488653.6/51$

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: 195.544 ± 88.119 $\chi^2/\text{NDF}: 4.1/9$

Right Out: -132.730 ± 68.270 $\chi^2/\text{NDF}: 12.9/18$

Left In: 162.618 ± 68.338 $\chi^2/\text{NDF}: 3.2/8$

Left: 174.983 ± 54.002 $\chi^2/\text{NDF}: 7.3/18$

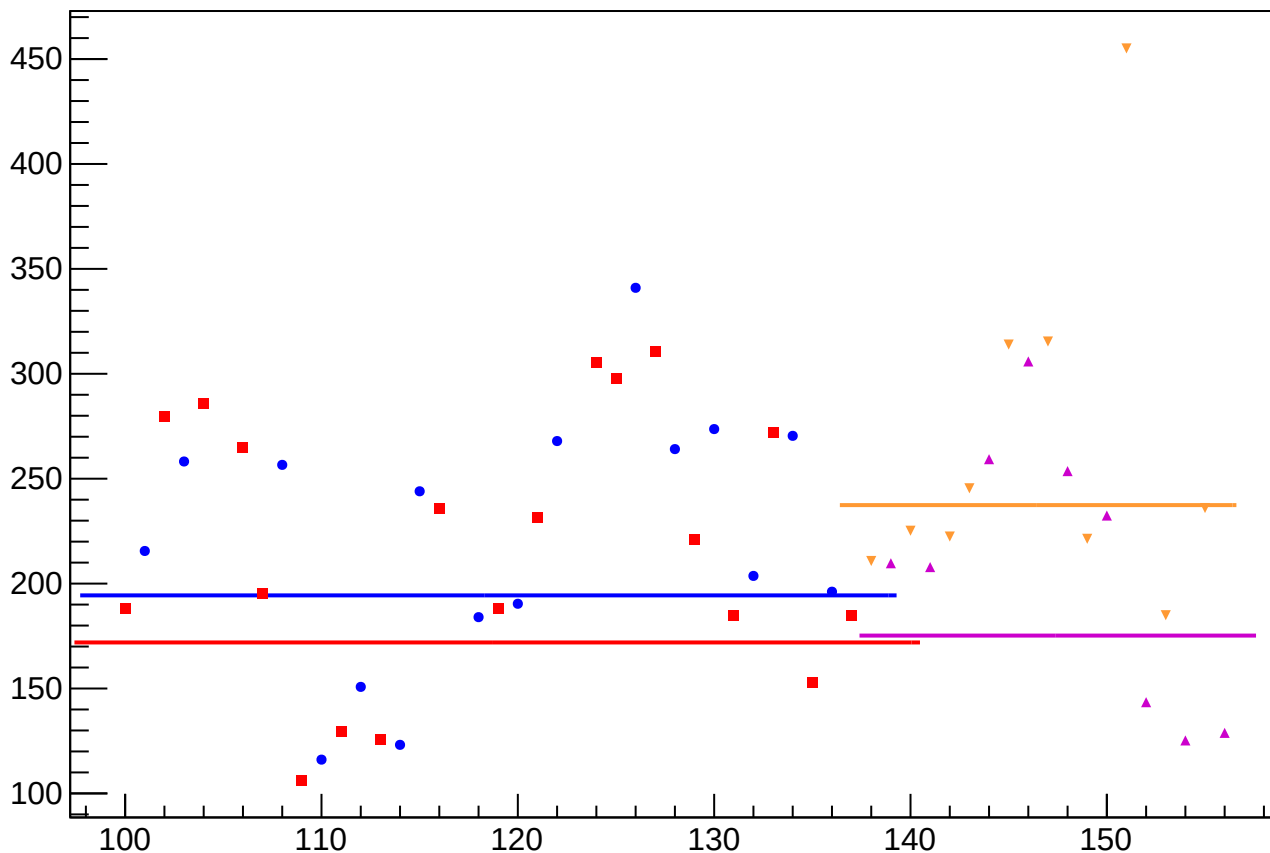
Right: -93.703 ± 50.914 $\chi^2/\text{NDF}: 29.0/34$

In: 70.459 ± 50.942 $\chi^2/\text{NDF}: 22.7/24$

Out: -9.598 ± 53.968 $\chi^2/\text{NDF}: 25.6/28$

All: 32.738 ± 37.045 $\chi^2/\text{NDF}: 49.5/53$

asym_bcm_an_us_an_ds3_avg_rms vs Slug, Sign Corrected



Right In: 194.385 $\pm$ 0.054 χ^2 /NDF: 1042024.1/15

Left Out: 237.412 $\pm$ 0.062 χ^2 /NDF: 727042.1/9

Right Out: 171.949 $\pm$ 0.048 χ^2 /NDF: 1651343.7/18

Left In: 175.224 $\pm$ 0.048 χ^2 /NDF: 1371974.0/8

Left: 198.579 $\pm$ 0.038 χ^2 /NDF: 2721026.8/18

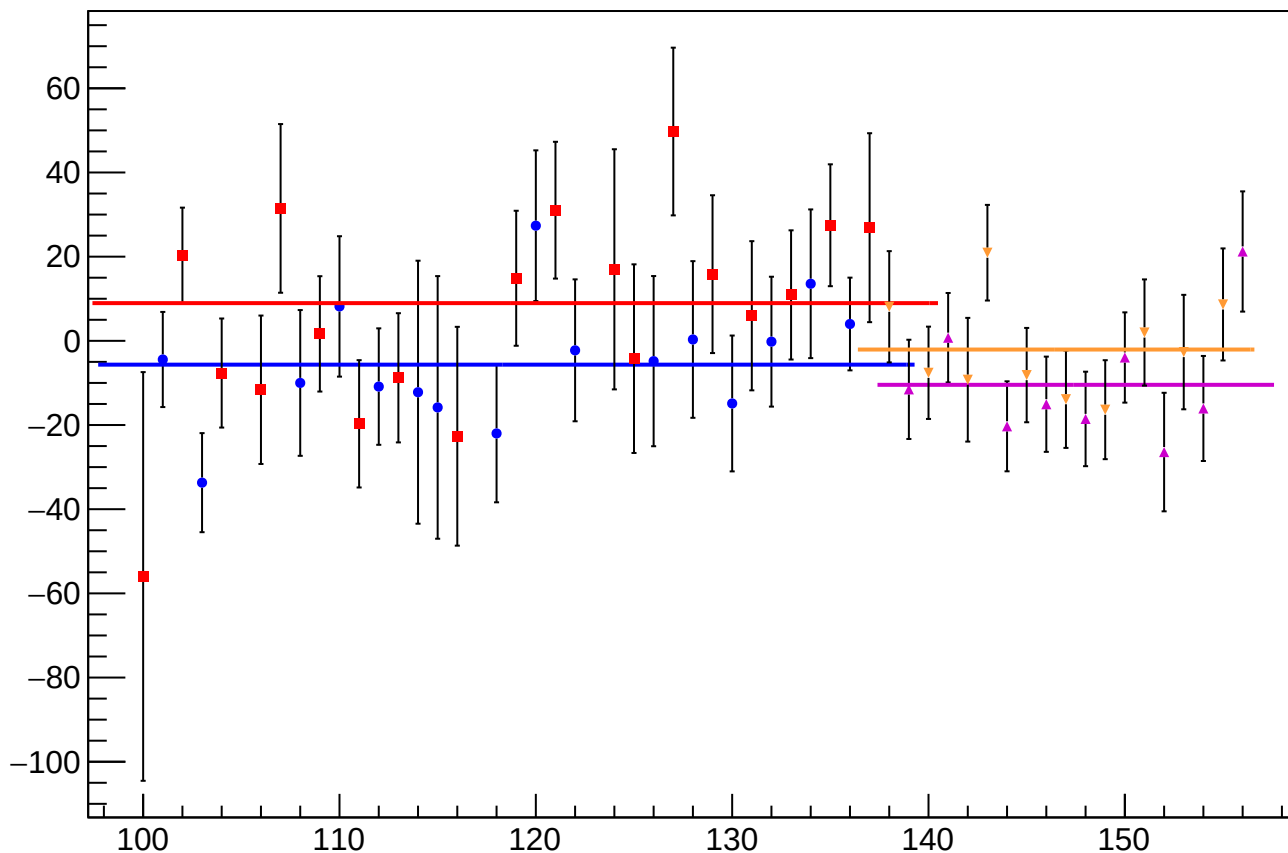
Right: 181.907 $\pm$ 0.036 χ^2 /NDF: 2789239.1/34

In: 183.738 $\pm$ 0.036 χ^2 /NDF: 2483858.7/24

Out: 196.503 $\pm$ 0.038 χ^2 /NDF: 3068161.1/28

All: 189.753 $\pm$ 0.026 χ^2 /NDF: 5611197.0/53

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: -2.067 ± 3.880 χ^2/NDF : 8.7/9

Right Out: 8.960 ± 3.901 χ^2/NDF : 22.8/18

Left In: -10.452 ± 3.904 χ^2/NDF : 9.4/8

Left: -6.234 ± 2.752 χ^2/NDF : 20.5/18

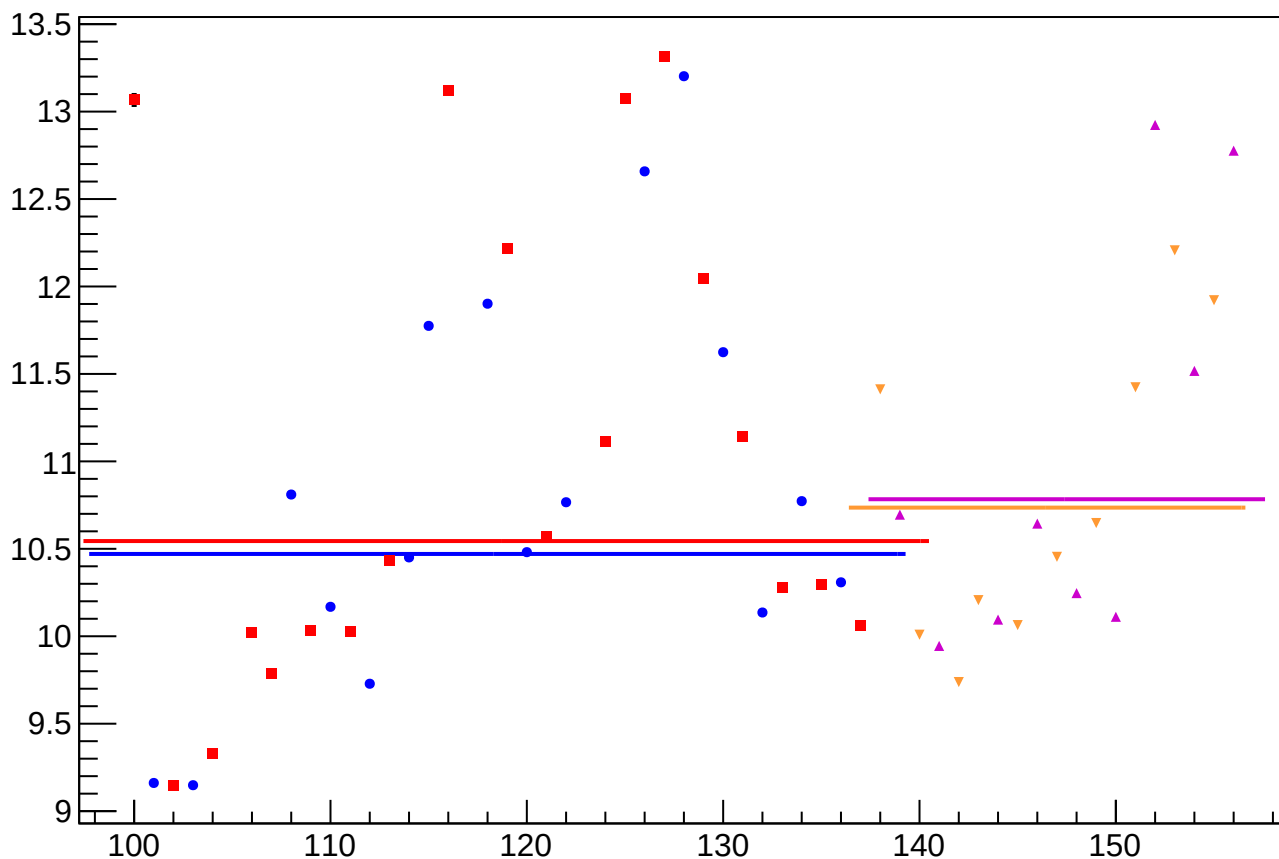
Right: 1.723 ± 2.772 χ^2/NDF : 43.4/34

In: -8.076 ± 2.773 χ^2/NDF : 23.9/24

Out: 3.417 ± 2.751 χ^2/NDF : 35.6/28

All: -2.284 ± 1.953 χ^2/NDF : 68.1/53

asym_bcm_an_us_an_ds3_dd_rms vs Slug, Sign Corrected



Right In: 10.471+/-0.003 χ^2/NDF : 157365.8/15

Left Out: 10.736+/-0.003 χ^2/NDF : 81288.5/9

Right Out: 10.544+/-0.003 χ^2/NDF : 186780.3/18

Left In: 10.784+/-0.003 χ^2/NDF : 125669.1/8

Left: 10.759+/-0.002 χ^2/NDF : 207109.3/18

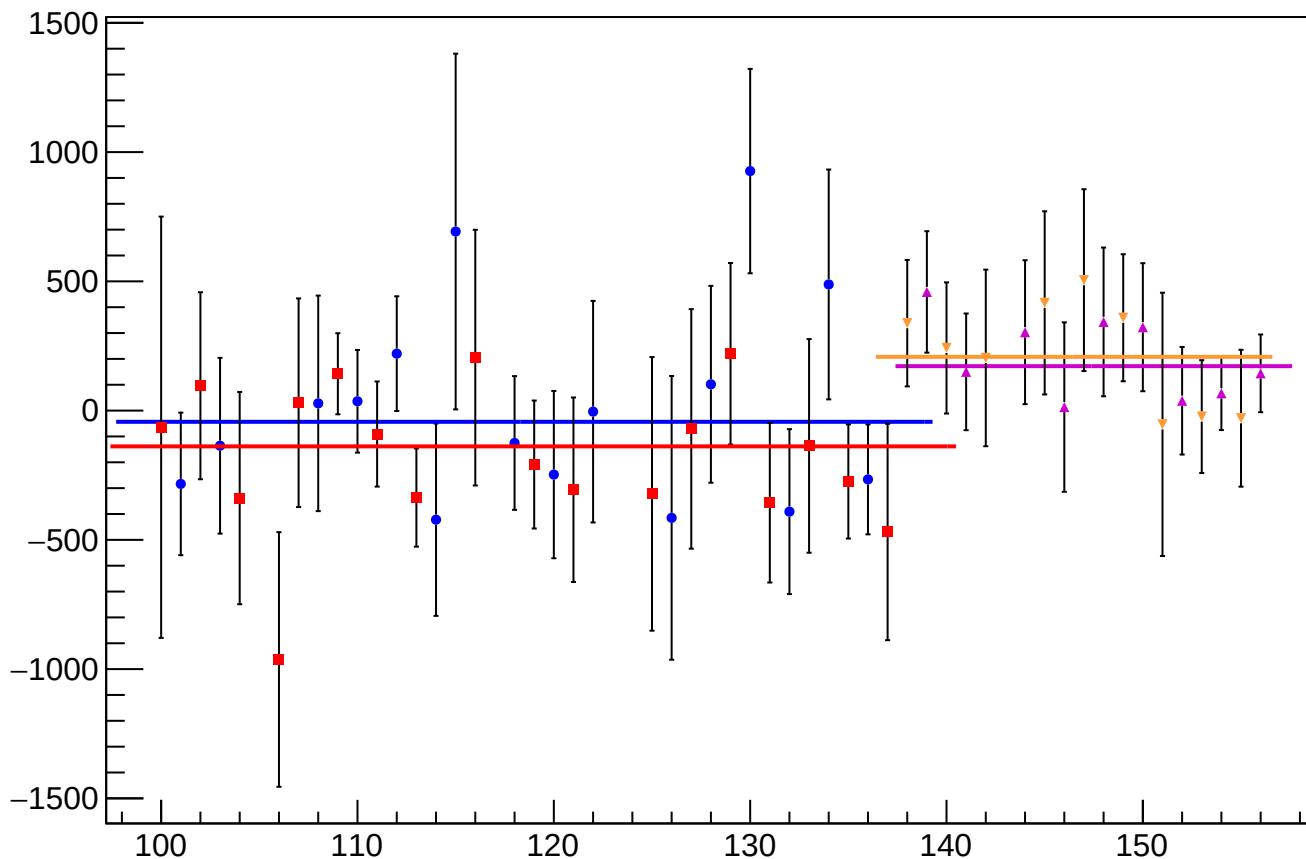
Right: 10.508+/-0.002 χ^2/NDF : 344500.1/34

In: 10.628+/-0.002 χ^2/NDF : 289401.9/24

Out: 10.640+/-0.002 χ^2/NDF : 270484.5/28

All: 10.635+/-0.001 χ^2/NDF : 559905.4/53

asym_bcm_dg_us_dg_ds_avg_mean vs Slug, Sign Corrected



Right In: -43.384 ± 77.584 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 207.928 ± 94.257 $\chi^2/\text{NDF}: 3.9/8$

Right Out: -138.455 ± 69.833 $\chi^2/\text{NDF}: 11.5/17$

Left In: 171.886 ± 69.799 $\chi^2/\text{NDF}: 3.7/8$

Left: 184.651 ± 56.094 $\chi^2/\text{NDF}: 7.7/17$

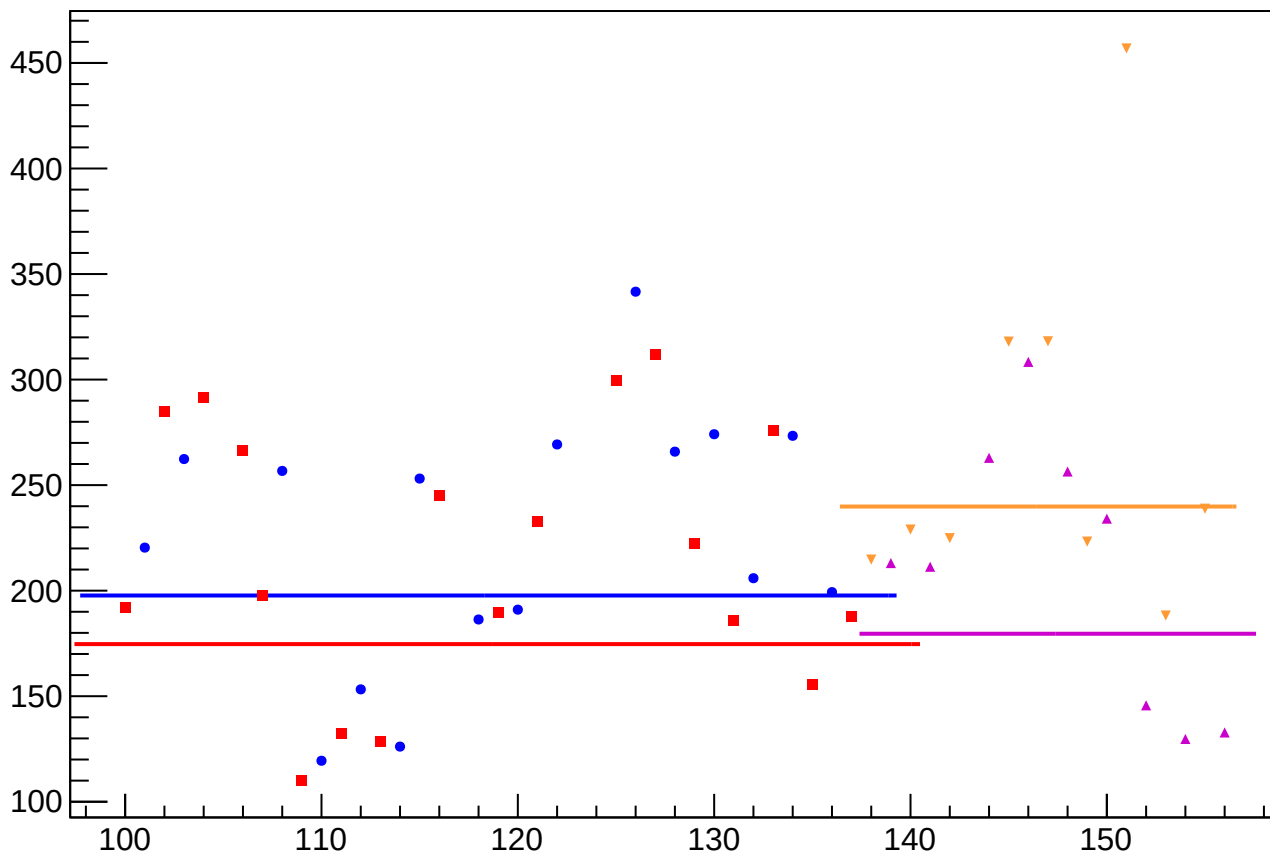
Right: -95.904 ± 51.904 $\chi^2/\text{NDF}: 27.7/33$

In: 75.590 ± 51.890 $\chi^2/\text{NDF}: 23.4/24$

Out: -15.704 ± 56.111 $\chi^2/\text{NDF}: 24.1/26$

All: 33.506 ± 38.097 $\chi^2/\text{NDF}: 48.9/51$

asym_bcm_dg_us_dg_ds_avg_rms vs Slug, Sign Corrected



Right In: 197.707 $\pm$ 0.055 χ^2 /NDF: 1000324.6/15

Left Out: 239.854 $\pm$ 0.067 χ^2 /NDF: 709440.0/8

Right Out: 174.679 $\pm$ 0.049 χ^2 /NDF: 1534751.1/17

Left In: 179.588 $\pm$ 0.049 χ^2 /NDF: 1301059.5/8

Left: 200.932 $\pm$ 0.040 χ^2 /NDF: 2538536.6/17

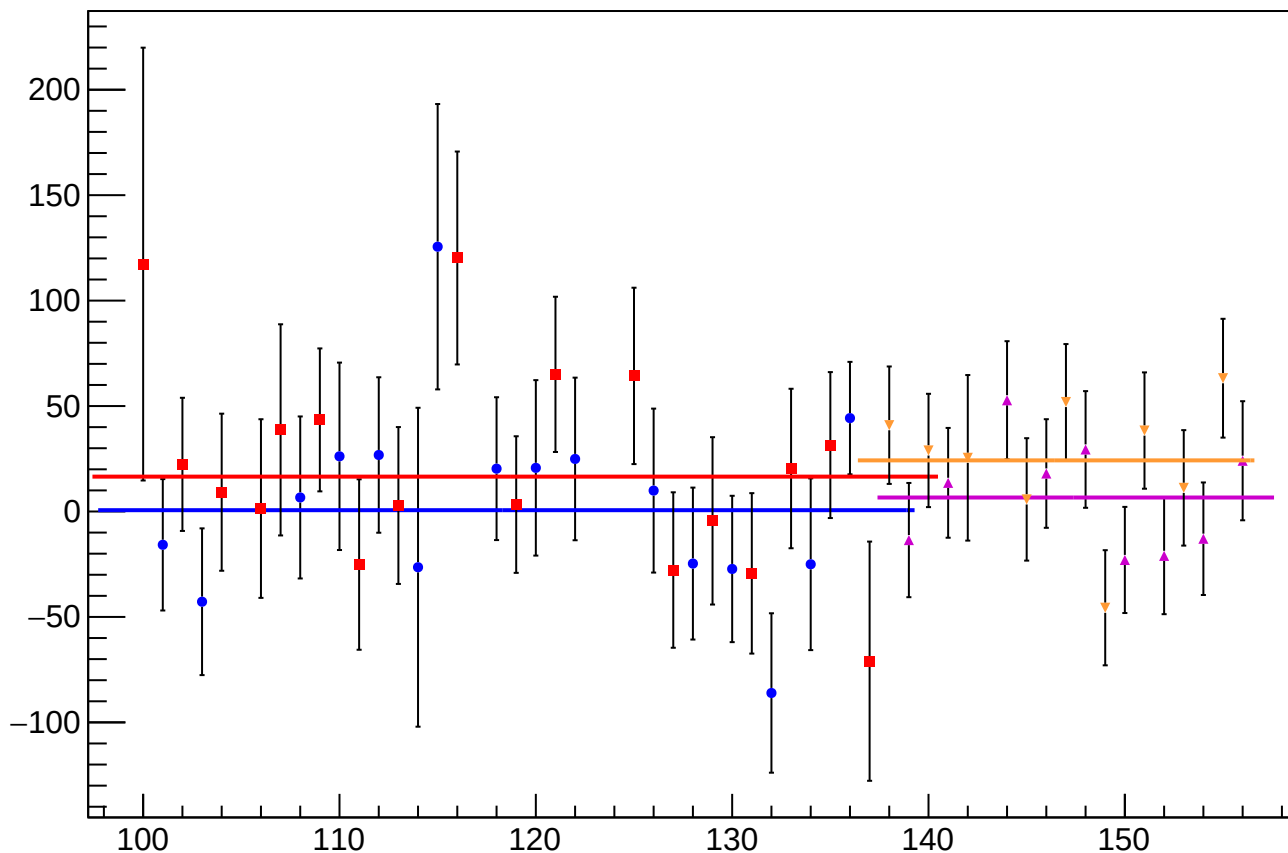
Right: 184.986 $\pm$ 0.037 χ^2 /NDF: 2632415.9/33

In: 187.693 $\pm$ 0.037 χ^2 /NDF: 2361672.2/24

Out: 197.776 $\pm$ 0.040 χ^2 /NDF: 2861547.0/26

All: 192.341 $\pm$ 0.027 χ^2 /NDF: 5258024.9/51

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: 24.240 ± 9.497 $\chi^2/\text{NDF}: 10.8/8$

Right Out: 16.534 ± 9.307 $\chi^2/\text{NDF}: 16.4/17$

Left In: 6.630 ± 8.954 $\chi^2/\text{NDF}: 7.5/8$

Left: 14.917 ± 6.515 $\chi^2/\text{NDF}: 20.1/17$

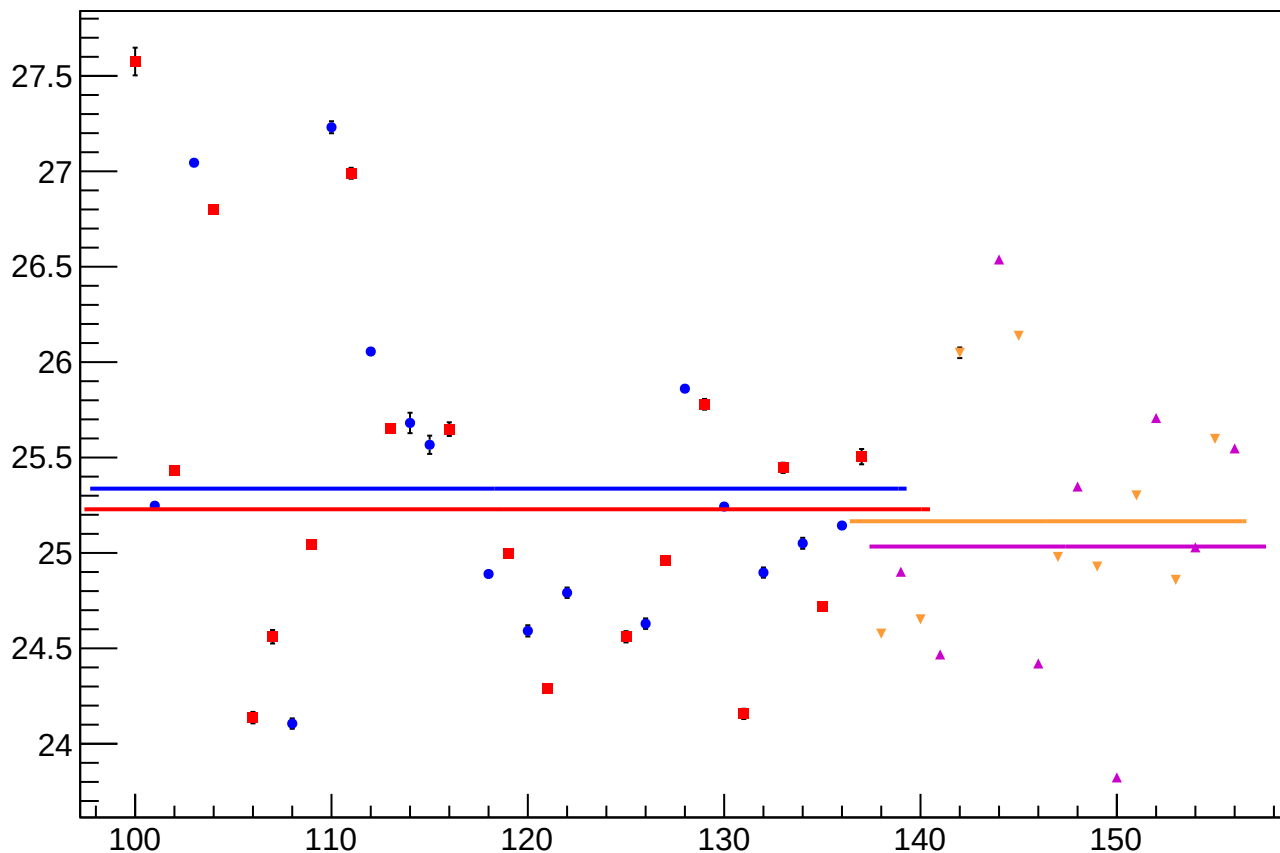
Right: 8.674 ± 6.621 $\chi^2/\text{NDF}: 34.6/33$

In: 3.778 ± 6.490 $\chi^2/\text{NDF}: 24.5/24$

Out: 20.309 ± 6.647 $\chi^2/\text{NDF}: 27.5/26$

All: 11.846 ± 4.644 $\chi^2/\text{NDF}: 55.1/51$

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: 25.166 $\pm$ 0.007 χ^2/NDF : 5895.6/8

Right Out: 25.229 $\pm$ 0.007 χ^2/NDF : 15176.1/17

Left In: 25.034 $\pm$ 0.006 χ^2/NDF : 14626.3/8

Left: 25.096 $\pm$ 0.005 χ^2/NDF : 20728.1/17

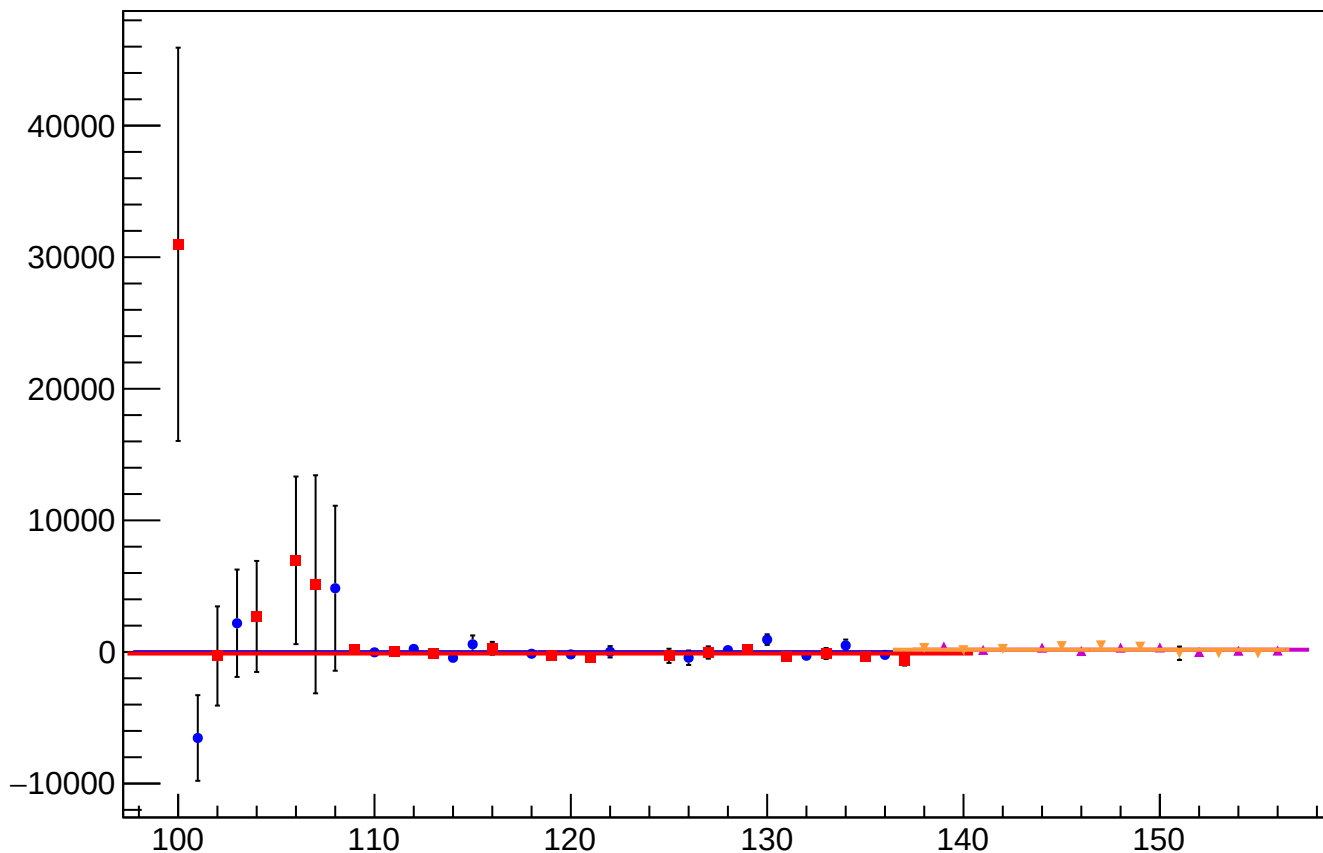
Right: 25.282 $\pm$ 0.005 χ^2/NDF : 29624.6/33

In: 25.178 $\pm$ 0.005 χ^2/NDF : 30031.4/24

Out: 25.198 $\pm$ 0.005 χ^2/NDF : 21116.1/26

All: 25.188 $\pm$ 0.003 χ^2/NDF : 51157.3/51

asym_bcm_cav4cQ_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -13.160 ± 84.454 $\chi^2/\text{NDF}: 18.3/15$

Left Out: 171.646 ± 95.570 $\chi^2/\text{NDF}: 5.2/8$

Right Out: -119.984 ± 78.247 $\chi^2/\text{NDF}: 14.4/17$

Left In: 170.576 ± 71.419 $\chi^2/\text{NDF}: 3.4/8$

Left: 170.959 ± 57.209 $\chi^2/\text{NDF}: 8.6/17$

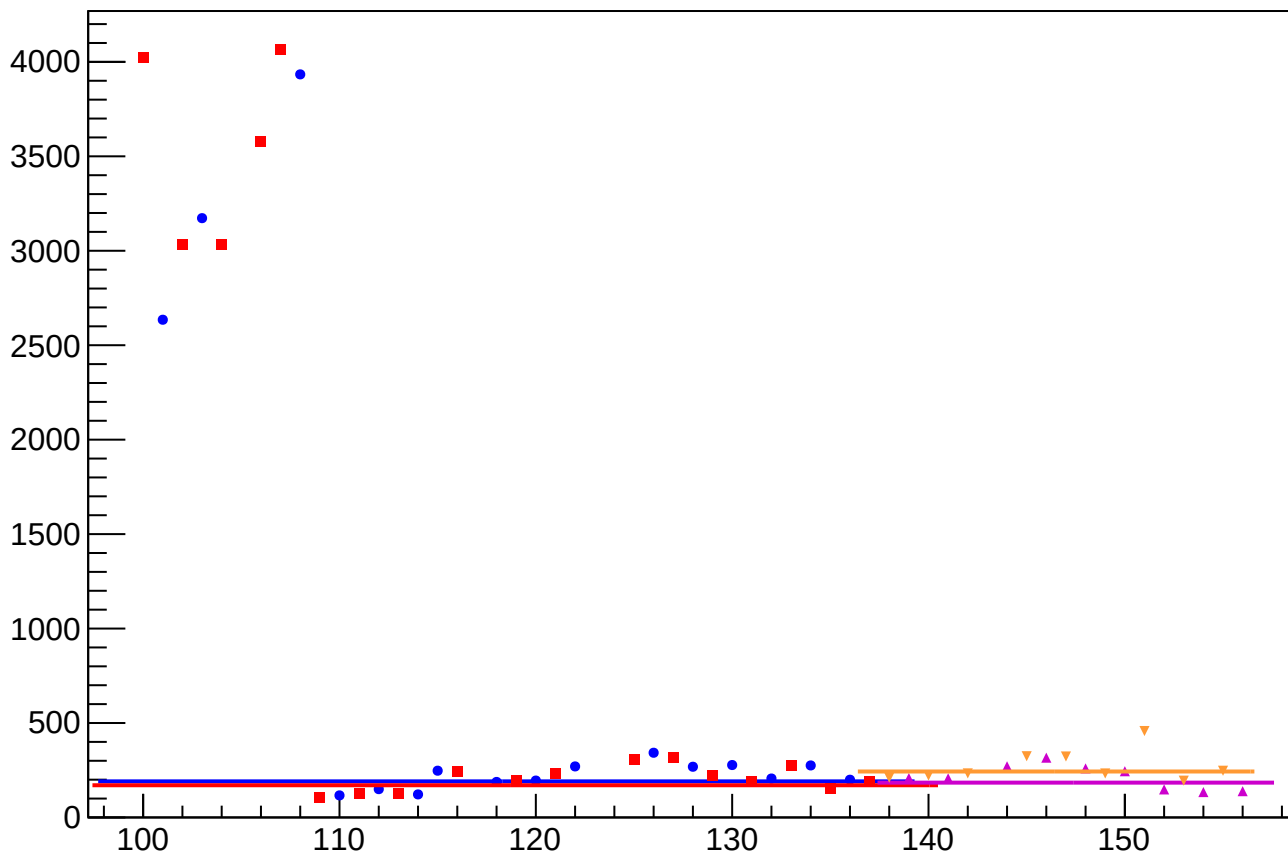
Right: -70.641 ± 57.398 $\chi^2/\text{NDF}: 33.6/33$

In: 93.967 ± 54.534 $\chi^2/\text{NDF}: 24.5/24$

Out: -2.948 ± 60.543 $\chi^2/\text{NDF}: 25.2/26$

All: 50.557 ± 40.520 $\chi^2/\text{NDF}: 51.1/51$

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: 243.324 $\pm$ 0.068 χ^2 /NDF: 705127.1/8

Right Out: 170.494 $\pm$ 0.055 χ^2 /NDF: 4254820.8/17

Left In: 184.333 $\pm$ 0.051 χ^2 /NDF: 1229679.0/8

Left: 205.472 $\pm$ 0.040 χ^2 /NDF: 2423748.9/17

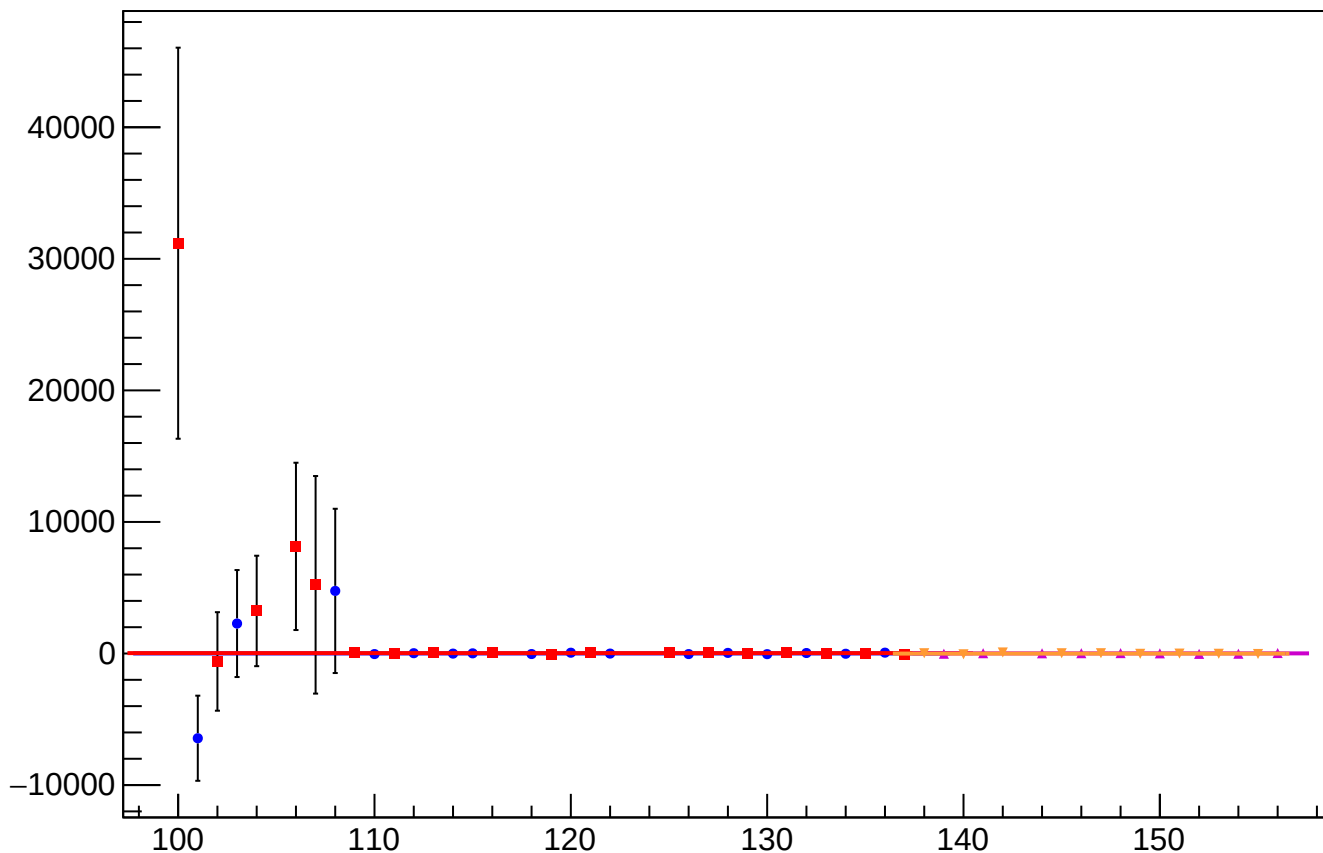
Right: 179.998 $\pm$ 0.041 χ^2 /NDF: 8152654.9/33

In: 187.142 $\pm$ 0.039 χ^2 /NDF: 5071050.8/24

Out: 199.722 $\pm$ 0.043 χ^2 /NDF: 5655297.7/26

All: 192.777 $\pm$ 0.029 χ^2 /NDF: 10774016.7/53

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: -5.930 $\pm$ 11.178 χ^2 /NDF:9.5/8

Right Out: 30.740 $\pm$ 12.084 χ^2 /NDF: 19.9/17

Left In: 10.442 $\pm$ 10.744 χ^2 /NDF:4.0/8

Left: 2.580 $\pm$ 7.746 χ^2 /NDF: 14.6/17

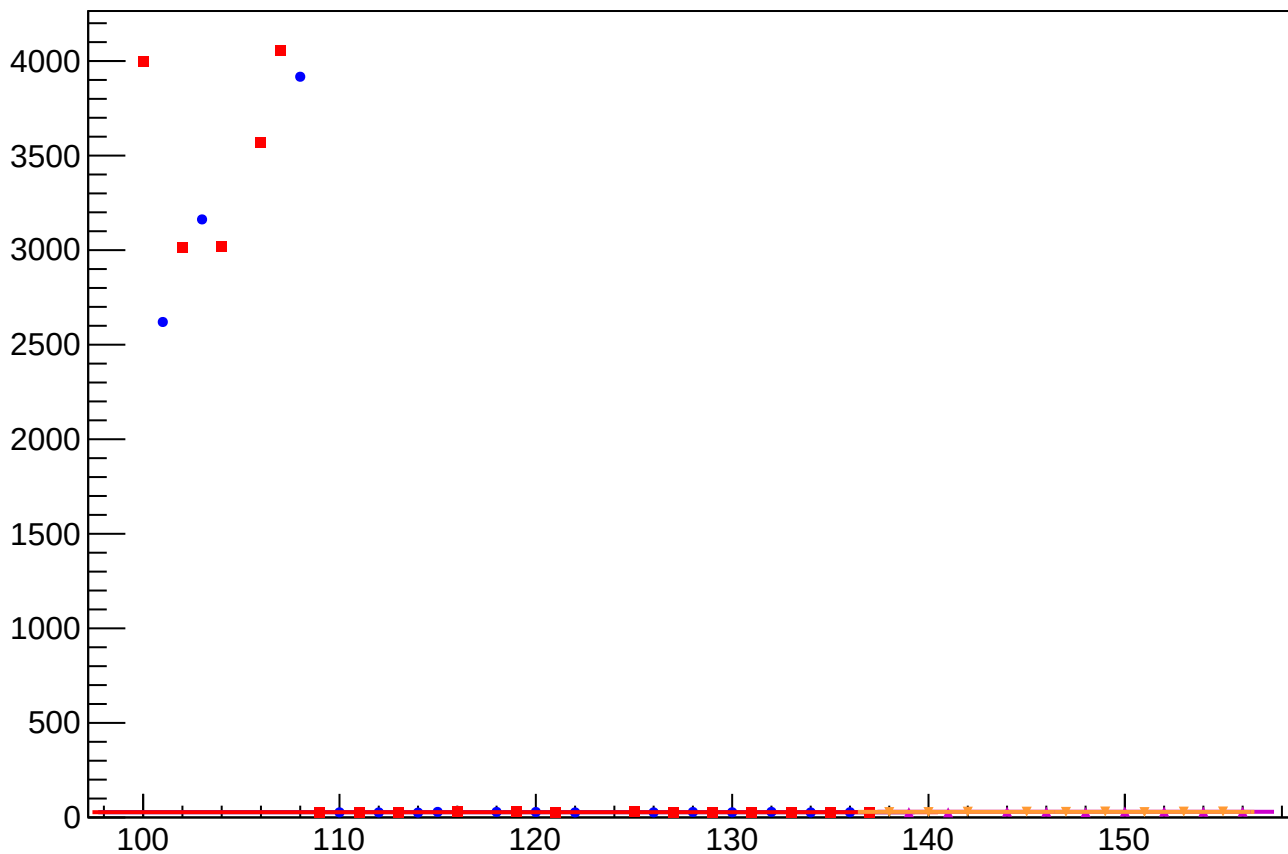
Right: 18.290 $\pm$ 8.429 χ^2 /NDF: 40.2/33

In: 8.645 $\pm$ 7.933 χ^2 /NDF:22.3/24

Out: 10.979 $\pm$ 8.206 χ^2 /NDF:34.4/26

All: 9.773 $\pm$ 5.704 χ^2 /NDF: 56.7/51

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: 29.567+/-0.008 χ^2/NDF : 24704.9/8

Right Out: 27.778+/-0.009 χ^2/NDF : 3558398.6/17

Left In: 29.961+/-0.008 χ^2/NDF : 45657.8/8

Left: 29.772+/-0.005 χ^2/NDF : 71655.7/17

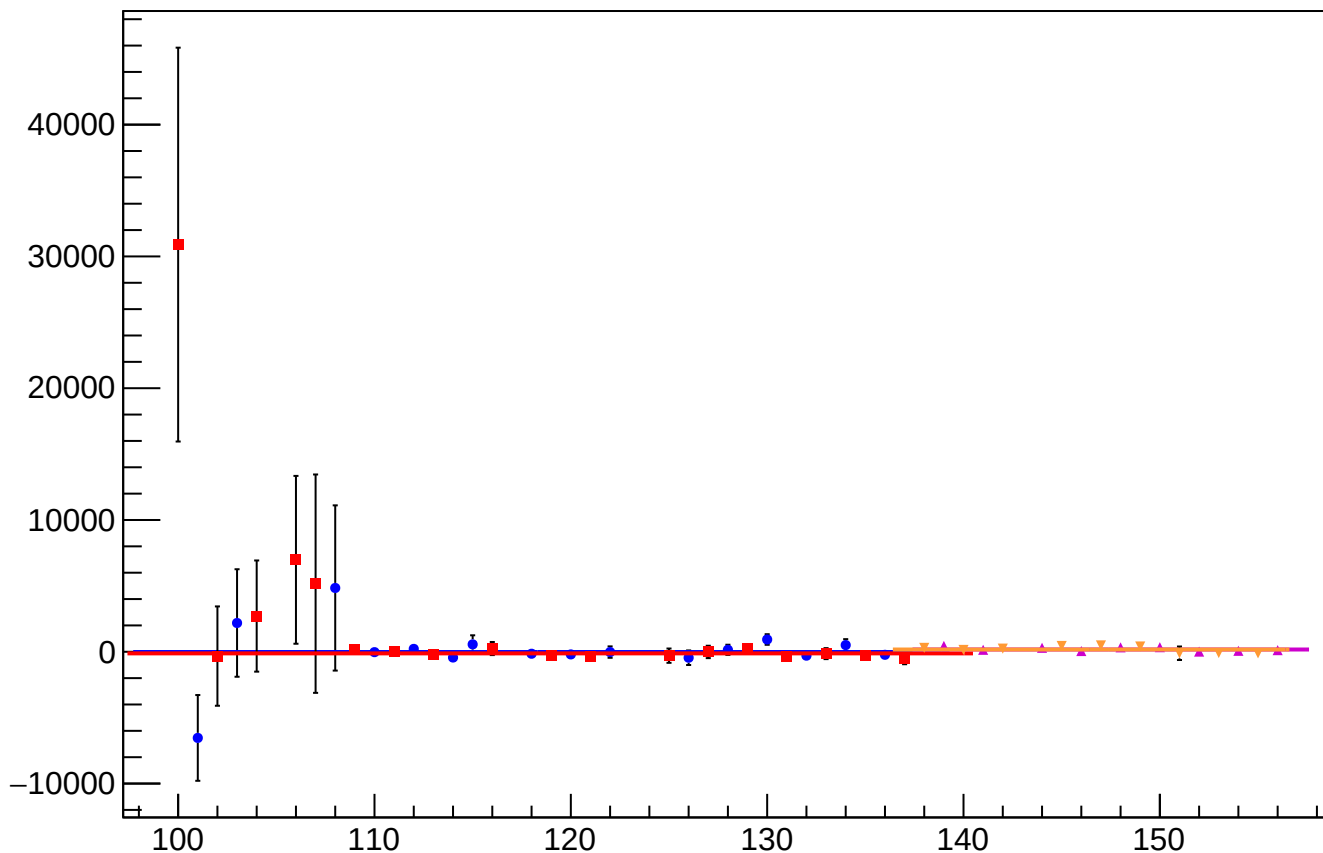
Right: 27.802+/-0.006 χ^2/NDF : 6824309.2/33

In: 28.990+/-0.006 χ^2/NDF : 3347506.6/24

Out: 28.742+/-0.006 χ^2/NDF : 3606713.0/26

All: 28.870+/-0.004 χ^2/NDF : 6955160.3/51

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: 171.779 ± 96.125 χ^2/NDF : 5.2/8

Right Out: -121.544 ± 78.844 χ^2/NDF : 13.2/17

Left In: 172.046 ± 72.120 χ^2/NDF : 3.6/8

Left: 171.950 ± 57.689 χ^2/NDF : 8.8/17

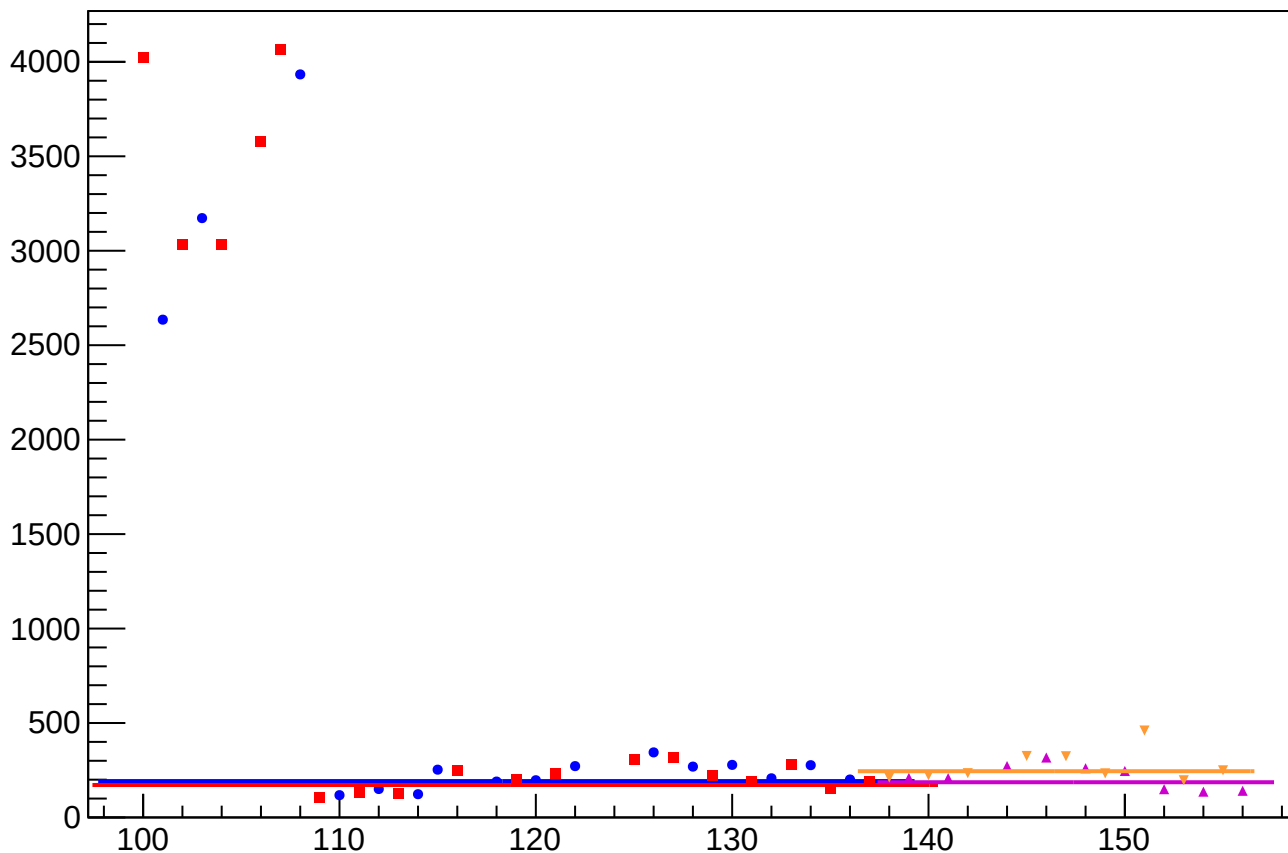
Right: -74.398 ± 57.825 χ^2/NDF : 32.2/33

In: 91.930 ± 55.010 χ^2/NDF : 24.7/24

Out: -3.573 ± 60.961 χ^2/NDF : 24.0/26

All: 49.066 ± 40.840 χ^2/NDF : 50.1/51

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: 244.804 $\pm$ 0.068 χ^2 /NDF: 700253.6/8

Right Out: 171.899 $\pm$ 0.056 χ^2 /NDF: 4247800.5/17

Left In: 186.416 $\pm$ 0.051 χ^2 /NDF: 1194908.8/8

Left: 207.446 $\pm$ 0.041 χ^2 /NDF: 2367302.8/17

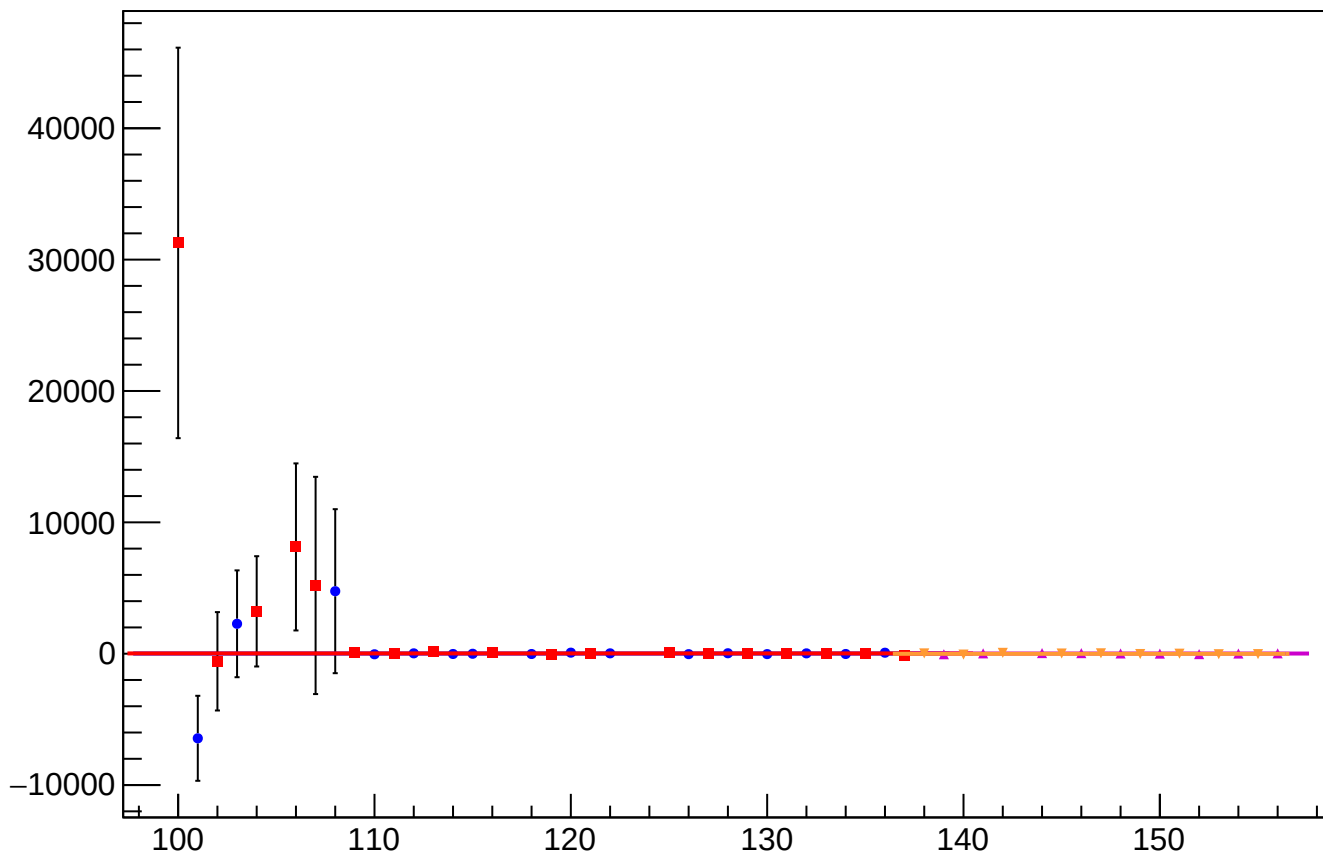
Right: 181.447 $\pm$ 0.041 χ^2 /NDF: 8134058.4/33

In: 188.986 $\pm$ 0.039 χ^2 /NDF: 5023767.8/24

Out: 201.220 $\pm$ 0.043 χ^2 /NDF: 5635828.5/26

All: 194.477 $\pm$ 0.029 χ^2 /NDF: 10703999.1/51

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: -8.303+/-12.024 χ^2/NDF : 9.0/8

Right Out: 21.906+/-13.382 χ^2/NDF : 28.4/17

Left In: 13.360+/-11.530 χ^2/NDF : 6.1/8

Left: 2.983+/-8.322 χ^2/NDF : 16.7/17

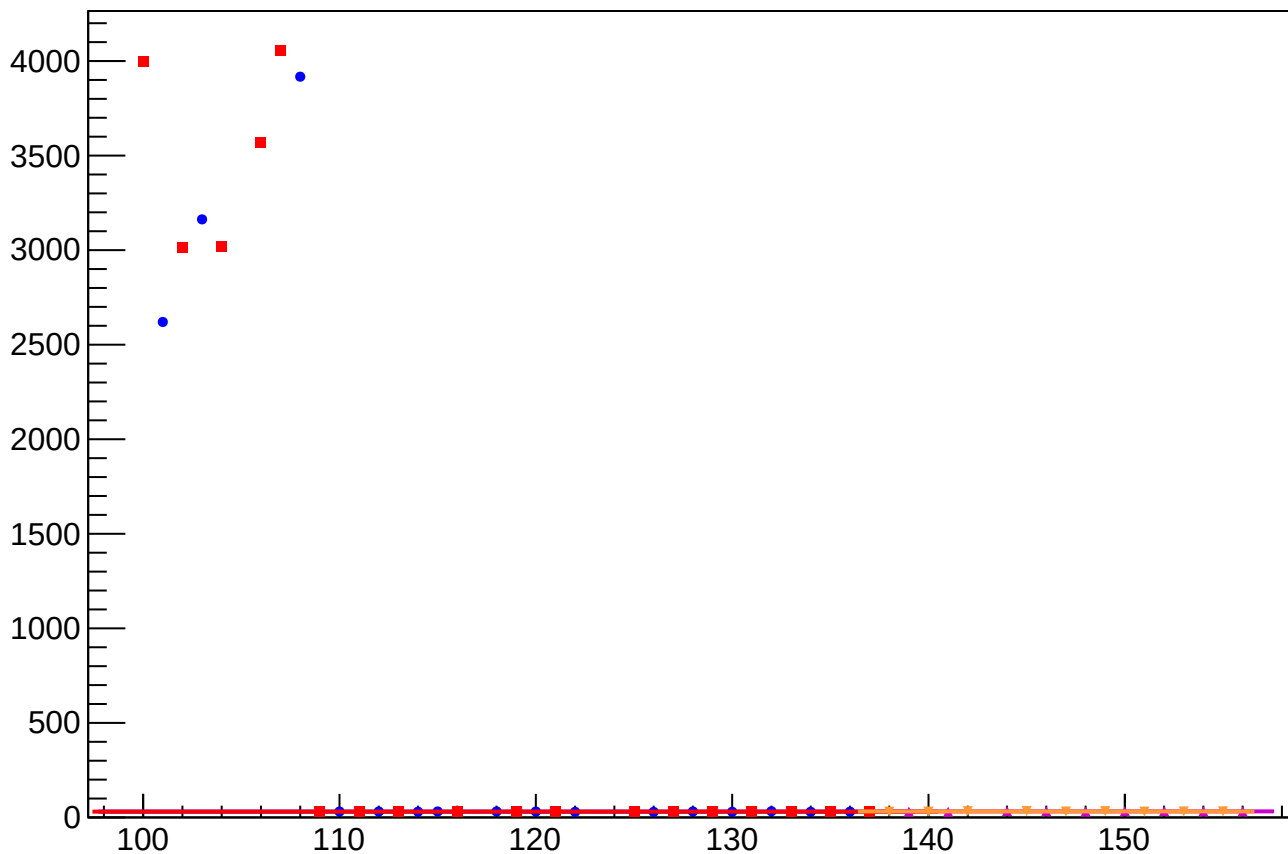
Right: 17.710+/-9.347 χ^2/NDF : 44.0/33

In: 13.515+/-8.644 χ^2/NDF : 21.5/24

Out: 5.191+/-8.944 χ^2/NDF : 40.1/26

All: 9.495+/-6.216 χ^2/NDF : 62.1/51

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: 31.823+/-0.009 χ^2/NDF :15264.1/8

Right Out: 30.804+/-0.009 χ^2/NDF : 3535959.8/17

Left In: 32.171+/-0.008 χ^2/NDF :28234.9/8

Left: 32.005+/-0.006 χ^2/NDF : 44369.3/17

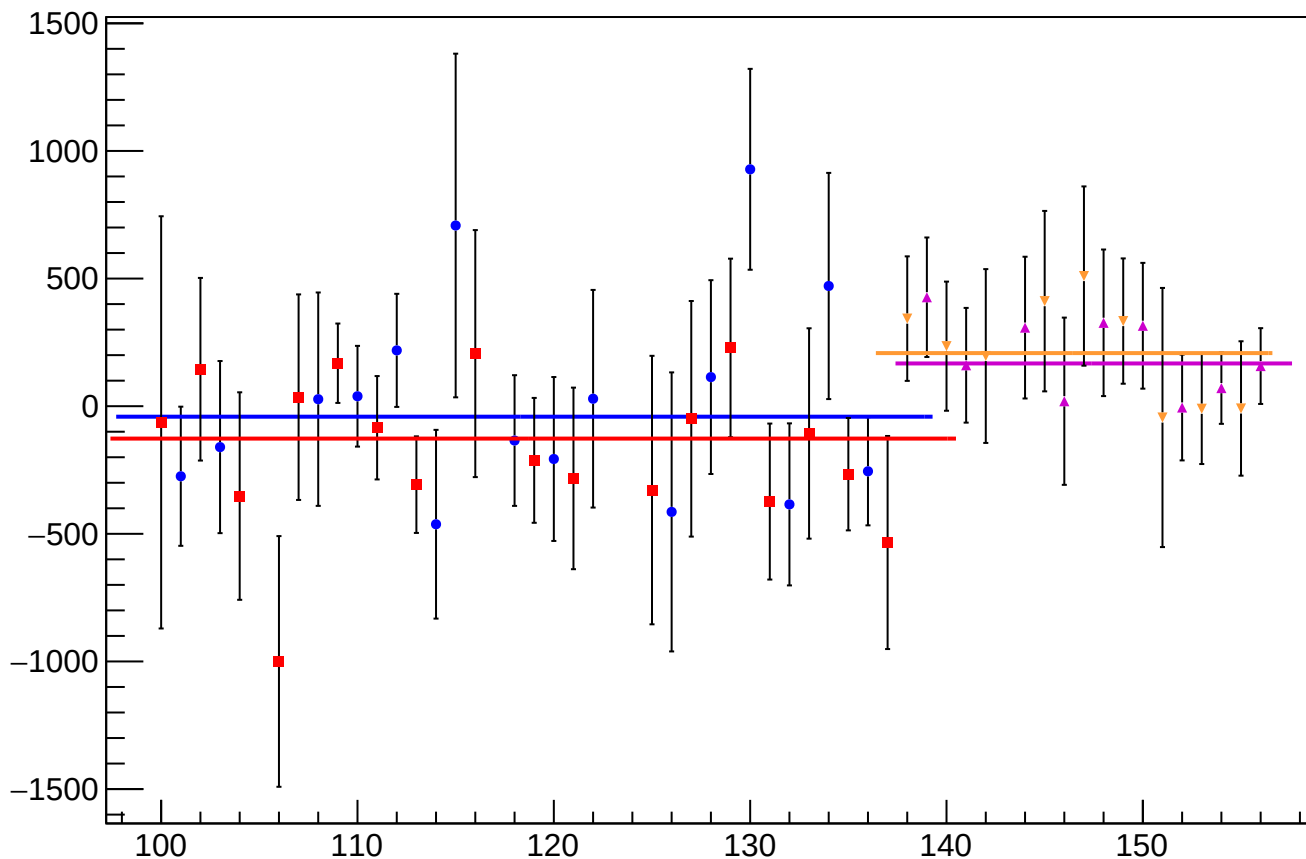
Right: 30.868+/-0.007 χ^2/NDF : 6788655.9/33

In: 31.627+/-0.006 χ^2/NDF :3291016.0/24

Out: 31.368+/-0.006 χ^2/NDF :3557644.7/26

All: 31.502+/-0.004 χ^2/NDF : 6849525.8/51

asym_bcm_dg_us_an_us_avg_mean vs Slug, Sign Corrected



Right In: -41.114 ± 77.139 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 208.020 ± 93.907 $\chi^2/\text{NDF}: 3.6/8$

Right Out: -126.896 ± 69.382 $\chi^2/\text{NDF}: 12.8/17$

Left In: 167.454 ± 69.250 $\chi^2/\text{NDF}: 3.5/8$

Left: 181.743 ± 55.734 $\chi^2/\text{NDF}: 7.2/17$

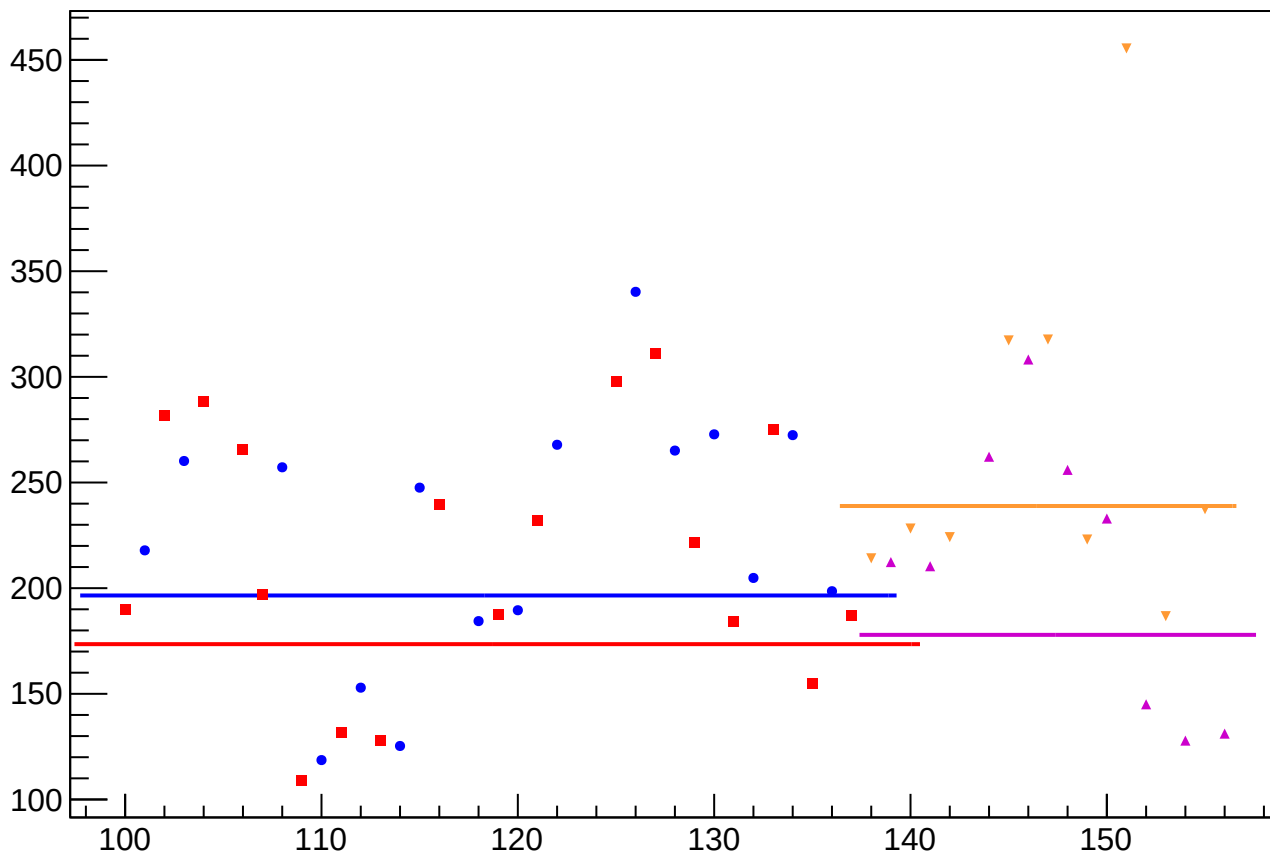
Right: -88.533 ± 51.586 $\chi^2/\text{NDF}: 29.1/33$

In: 74.377 ± 51.531 $\chi^2/\text{NDF}: 23.2/24$

Out: -8.630 ± 55.803 $\chi^2/\text{NDF}: 24.6/26$

All: 36.173 ± 37.858 $\chi^2/\text{NDF}: 49.0/51$

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: 238.886 $\pm$ 0.066 χ^2 /NDF: 715136.4/8

Right Out: 173.509 $\pm$ 0.049 χ^2 /NDF: 1532720.5/17

Left In: 177.904 $\pm$ 0.049 χ^2 /NDF: 1337306.1/8

Left: 199.385 $\pm$ 0.039 χ^2 /NDF: 2598774.7/17

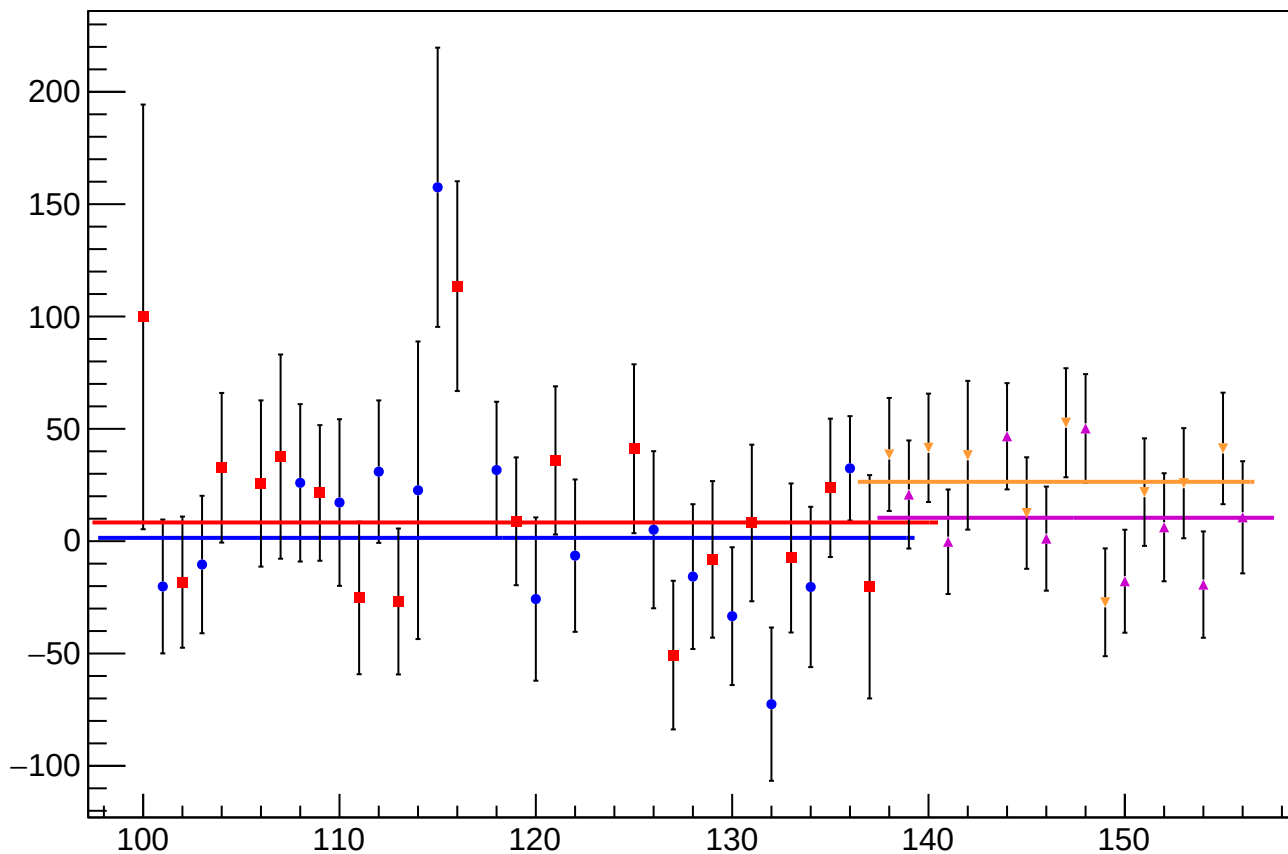
Right: 183.810 $\pm$ 0.036 χ^2 /NDF: 2632060.1/33

In: 186.221 $\pm$ 0.036 χ^2 /NDF: 2402732.9/24

Out: 196.595 $\pm$ 0.039 χ^2 /NDF: 2874915.1/26

All: 190.996 $\pm$ 0.027 χ^2 /NDF: 5314954.7/51

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: 26.421+/-8.362 χ^2/NDF : 7.6/8

Right Out: 8.329+/-8.286 χ^2/NDF : 16.0/17

Left In: 10.413+/-7.916 χ^2/NDF : 8.7/8

Left: 17.979+/-5.748 χ^2/NDF : 18.3/17

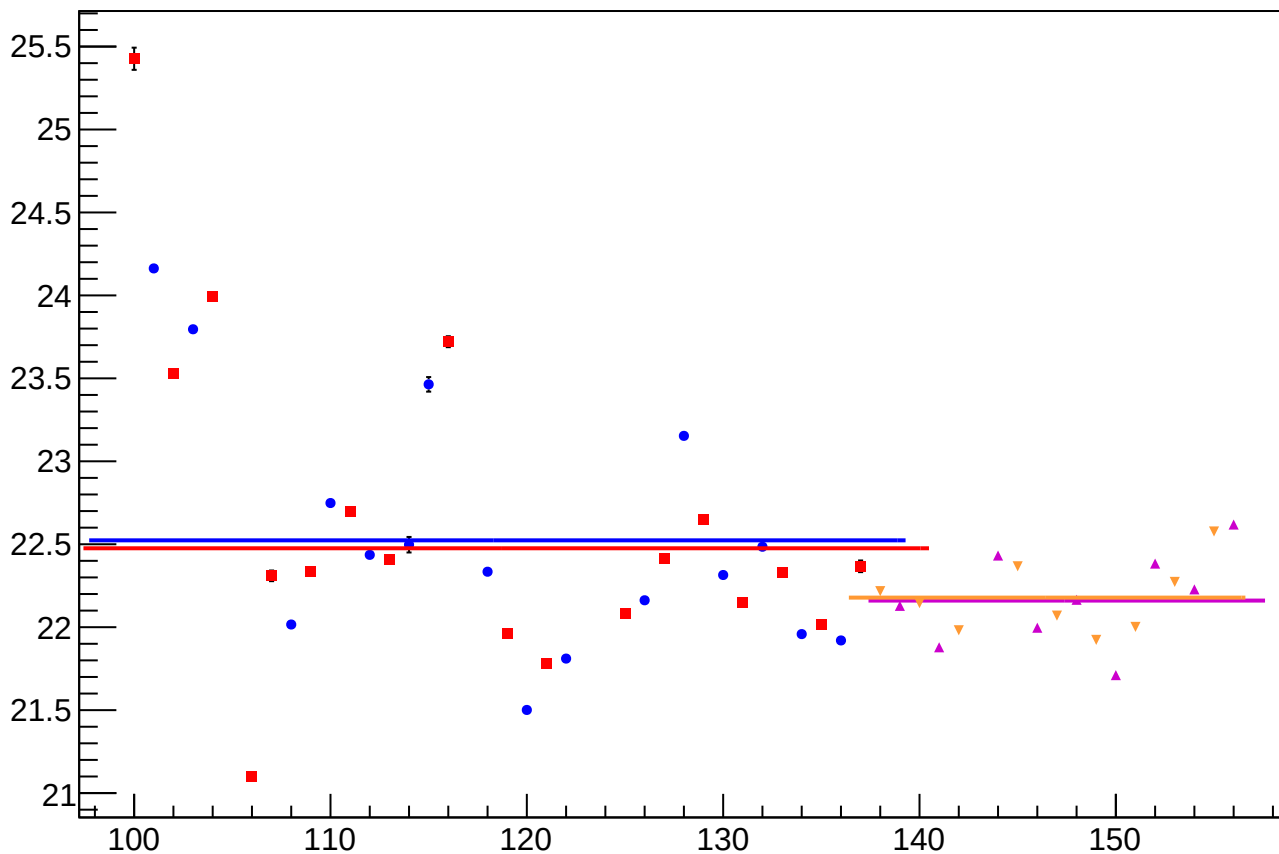
Right: 4.937+/-5.889 χ^2/NDF : 35.0/33

In: 6.194+/-5.751 χ^2/NDF : 28.0/24

Out: 17.293+/-5.886 χ^2/NDF : 26.0/26

All: 11.615+/-4.113 χ^2/NDF : 55.9/51

asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected



Right In: 22.524 $\pm$ 0.006 χ^2 /NDF: 15947.8/15

Left Out: 22.178 $\pm$ 0.006 χ^2 /NDF:1115.2/8

Right Out: 22.476 $\pm$ 0.006 χ^2 /NDF: 15536.6/17

Left In: 22.160 $\pm$ 0.006 χ^2 /NDF:2291.1/8

Left: 22.169 $\pm$ 0.004 χ^2 /NDF: 3411.1/17

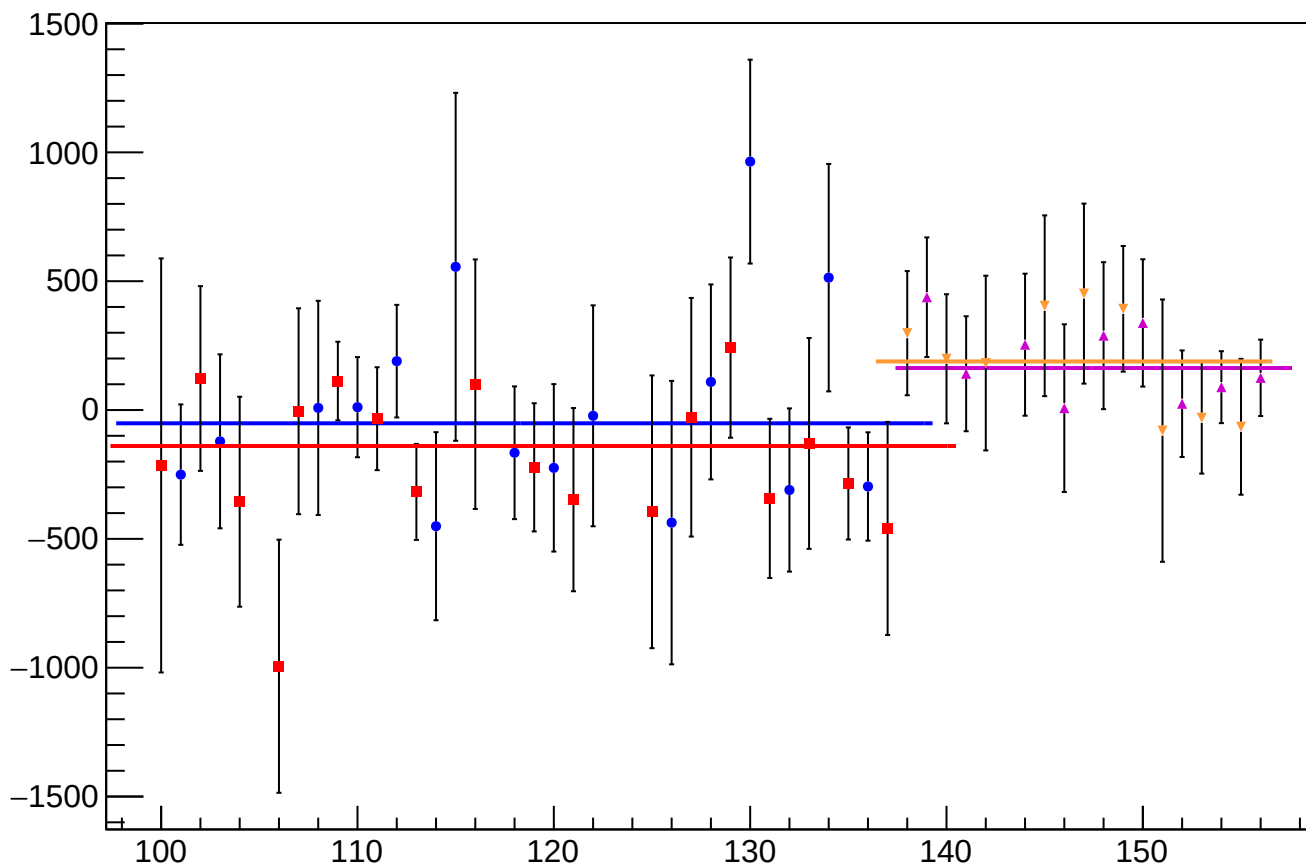
Right: 22.499 $\pm$ 0.004 χ^2 /NDF: 31517.5/33

In: 22.332 $\pm$ 0.004 χ^2 /NDF:20225.9/24

Out: 22.328 $\pm$ 0.004 χ^2 /NDF:17927.8/26

All: 22.330 $\pm$ 0.003 χ^2 /NDF: 38154.0/51

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: 188.571 ± 93.441 $\chi^2/\text{NDF}: 4.1/8$

Right Out: -139.546 ± 68.888 $\chi^2/\text{NDF}: 11.6/17$

Left In: 163.033 ± 68.982 $\chi^2/\text{NDF}: 3.2/8$

Left: 172.041 ± 55.497 $\chi^2/\text{NDF}: 7.4/17$

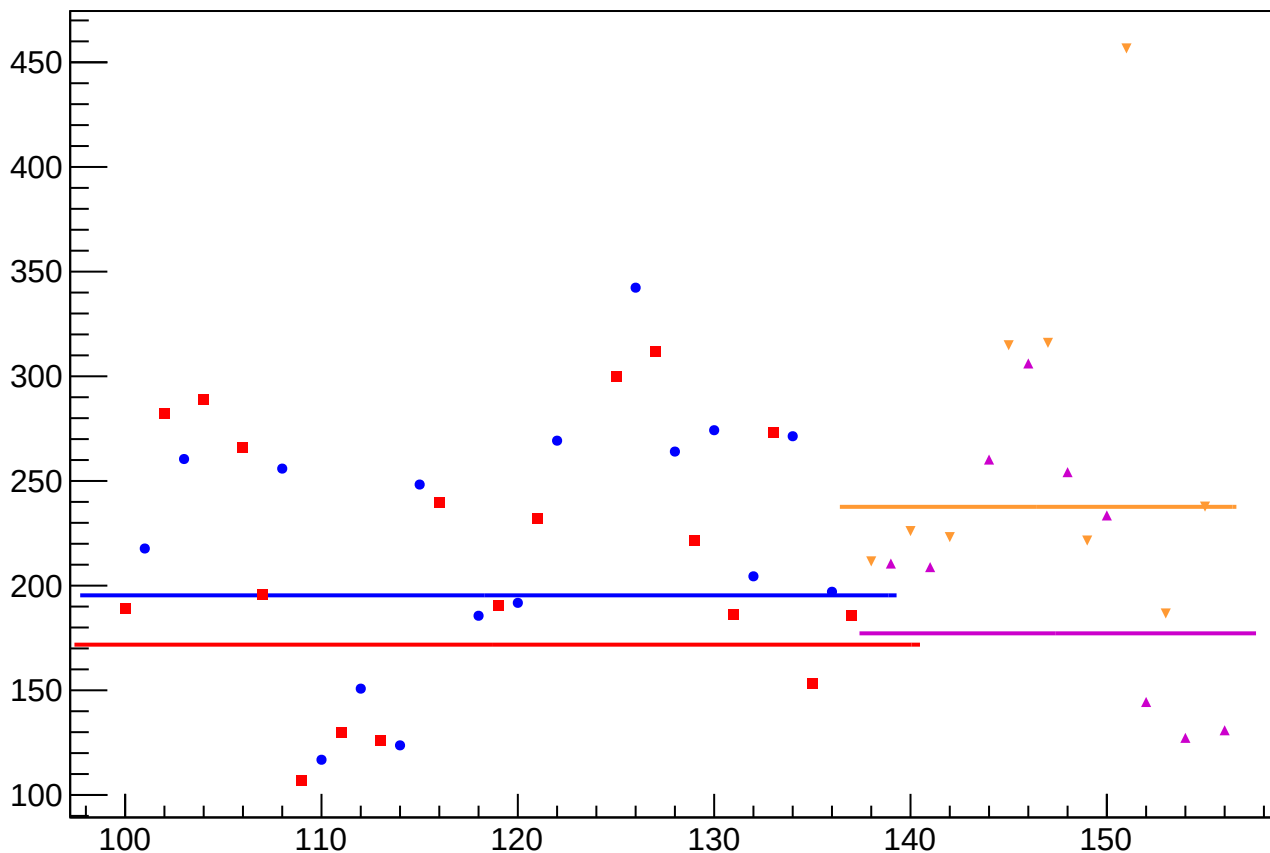
Right: -100.285 ± 51.280 $\chi^2/\text{NDF}: 27.6/33$

In: 67.239 ± 51.319 $\chi^2/\text{NDF}: 22.9/24$

Out: -24.006 ± 55.448 $\chi^2/\text{NDF}: 23.6/26$

All: 25.141 ± 37.663 $\chi^2/\text{NDF}: 48.0/51$

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: 237.646+/-0.066 χ^2/NDF : 718106.4/8

Right Out: 171.805+/-0.049 χ^2/NDF : 1600663.6/17

Left In: 177.210+/-0.049 χ^2/NDF : 1327813.9/8

Left: 198.528+/-0.039 χ^2/NDF : 2587439.2/17

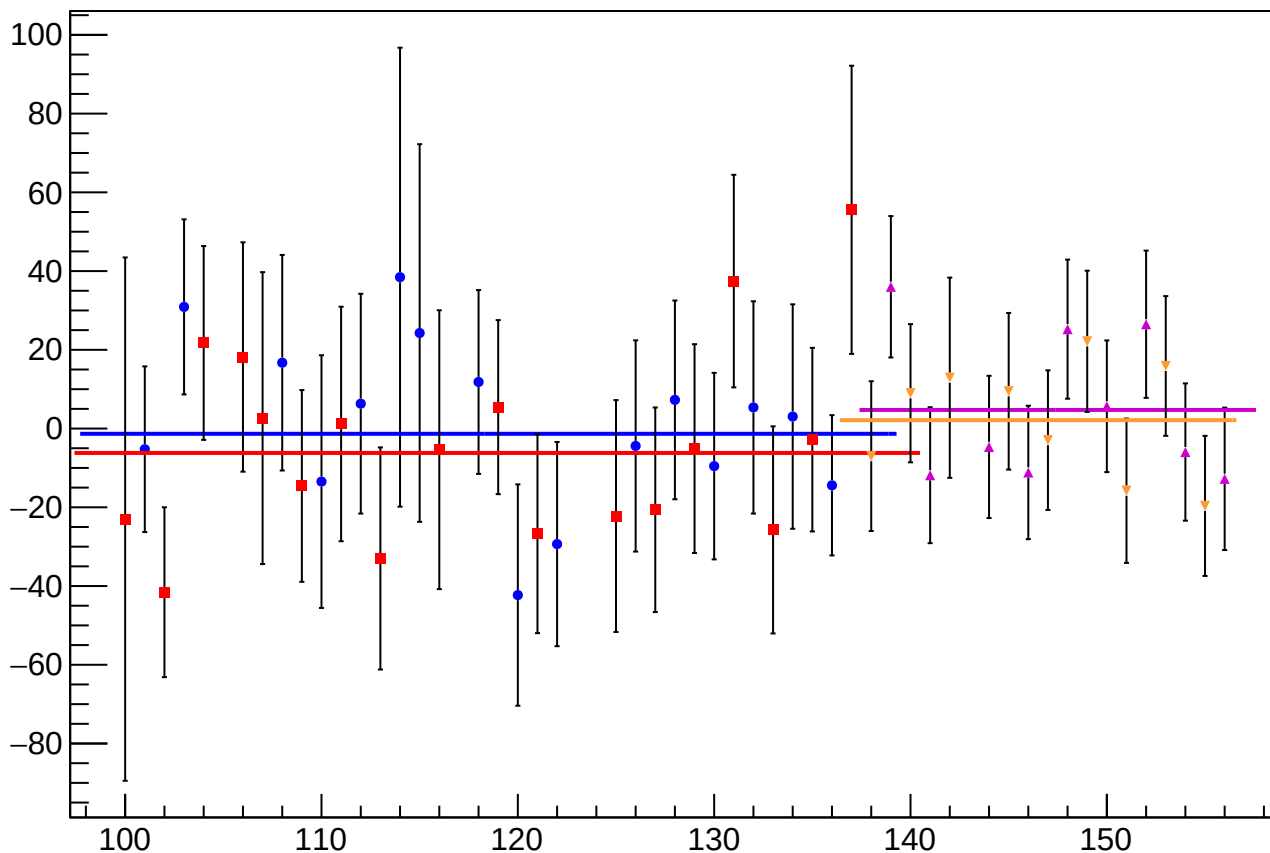
Right: 182.308+/-0.036 χ^2/NDF : 2746362.8/33

In: 185.315+/-0.036 χ^2/NDF : 2431079.3/24

Out: 194.989+/-0.039 χ^2/NDF : 2962094.0/26

All: 189.779+/-0.027 χ^2/NDF : 5425966.3/51

asym_bcm_dg_ds_an_us_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 $\chi^2/\text{NDF}: 8.0/15$

Left Out: 2.130 ± 6.240 $\chi^2/\text{NDF}: 5.1/8$

Right Out: -6.195 ± 6.473 $\chi^2/\text{NDF}: 13.5/17$

Left In: 4.726 ± 5.873 $\chi^2/\text{NDF}: 9.1/8$

Left: 3.507 ± 4.277 $\chi^2/\text{NDF}: 14.3/17$

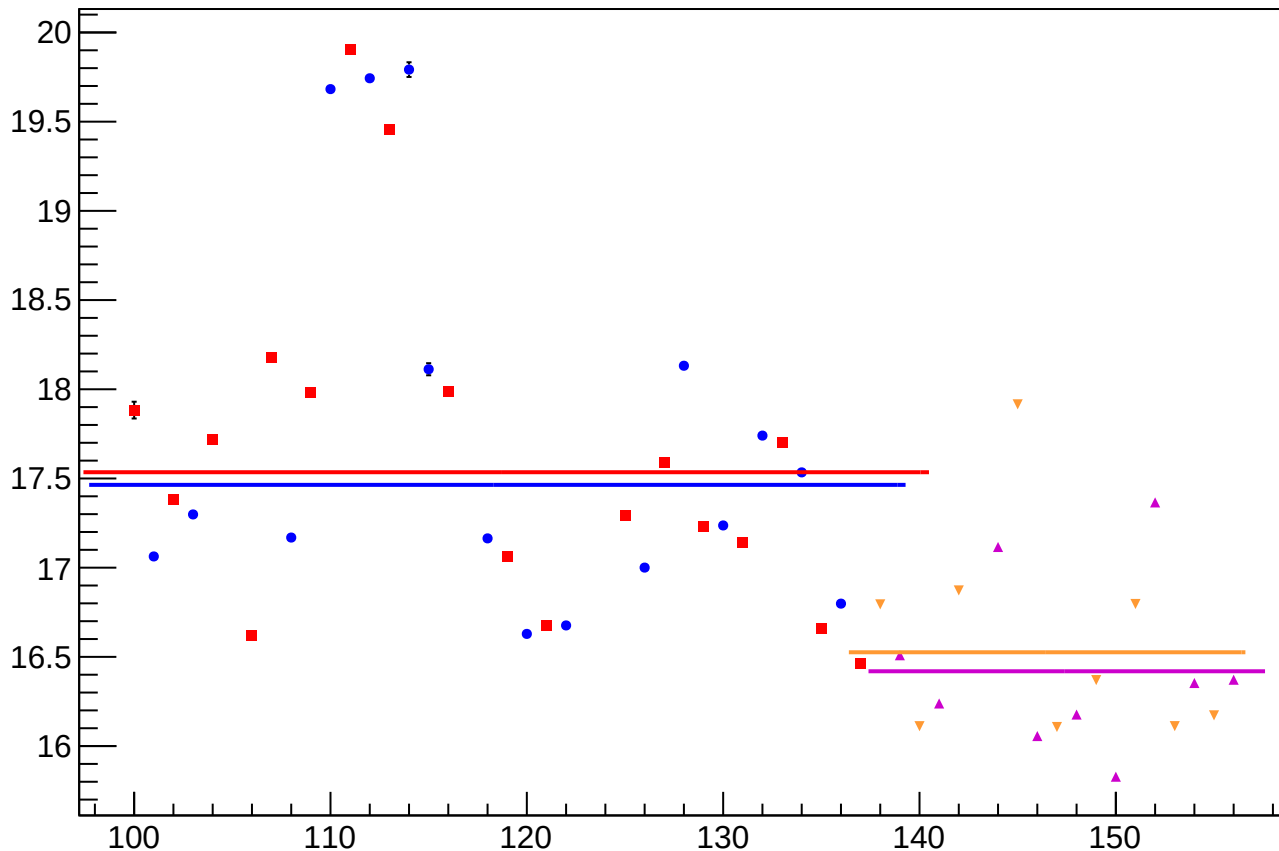
Right: -3.773 ± 4.586 $\chi^2/\text{NDF}: 21.8/33$

In: 2.003 ± 4.357 $\chi^2/\text{NDF}: 17.6/24$

Out: -1.880 ± 4.492 $\chi^2/\text{NDF}: 19.4/26$

All: 0.121 ± 3.128 $\chi^2/\text{NDF}: 37.4/51$

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: 16.526 $\pm$ 0.004 χ^2 /NDF:15226.0/8

Right Out: 17.535 $\pm$ 0.005 χ^2 /NDF: 34475.1/17

Left In: 16.419 $\pm$ 0.004 χ^2 /NDF:12200.6/8

Left: 16.469 $\pm$ 0.003 χ^2 /NDF: 27735.6/17

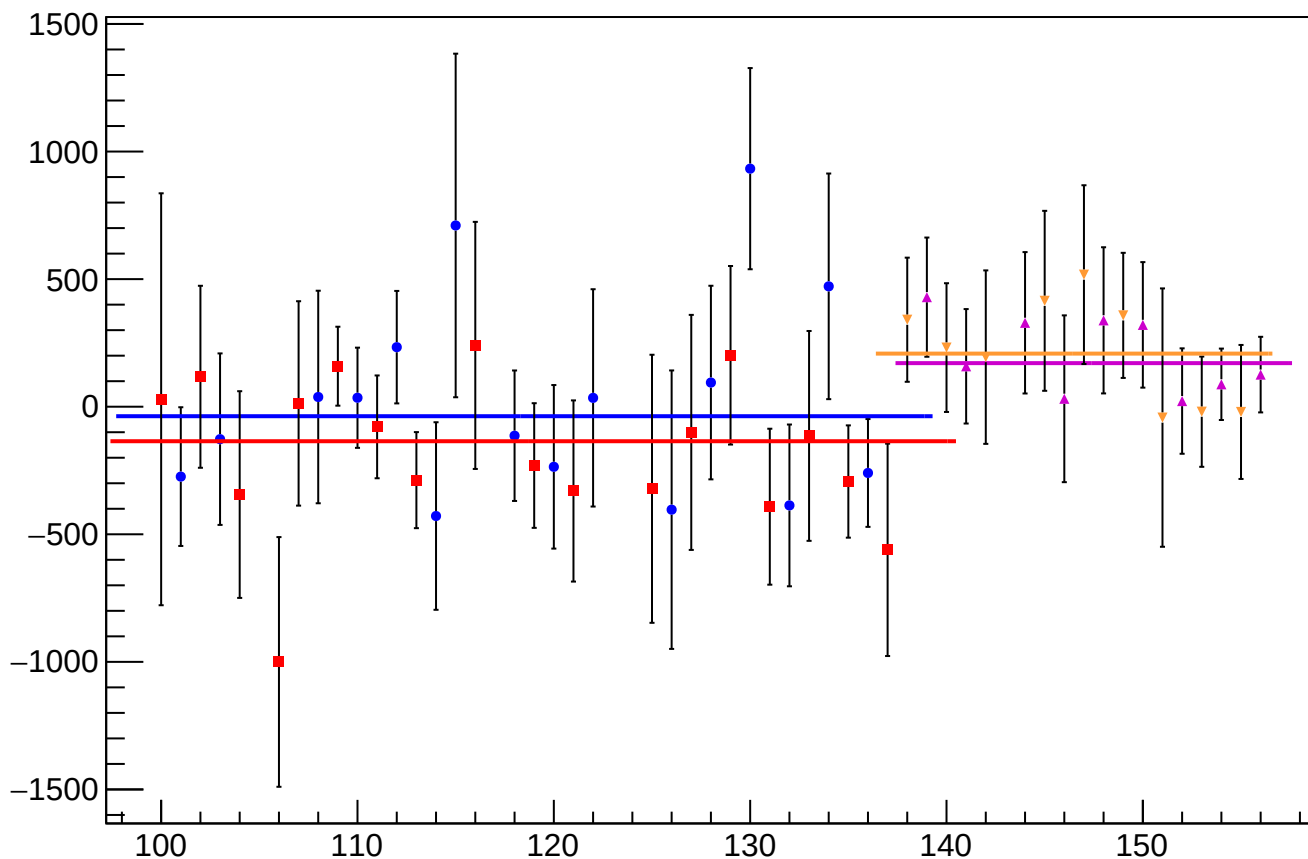
Right: 17.500 $\pm$ 0.003 χ^2 /NDF: 71244.5/33

In: 16.889 $\pm$ 0.003 χ^2 /NDF:77309.6/24

Out: 17.012 $\pm$ 0.003 χ^2 /NDF:74901.3/26

All: 16.949 $\pm$ 0.002 χ^2 /NDF: 152982.0/51

asym_bcm_dg_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -37.241 ± 76.915 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 208.123 ± 93.690 $\chi^2/\text{NDF}: 3.9/8$

Right Out: -135.279 ± 69.157 $\chi^2/\text{NDF}: 12.8/17$

Left In: 170.776 ± 69.106 $\chi^2/\text{NDF}: 3.4/8$

Left: 183.935 ± 55.614 $\chi^2/\text{NDF}: 7.4/17$

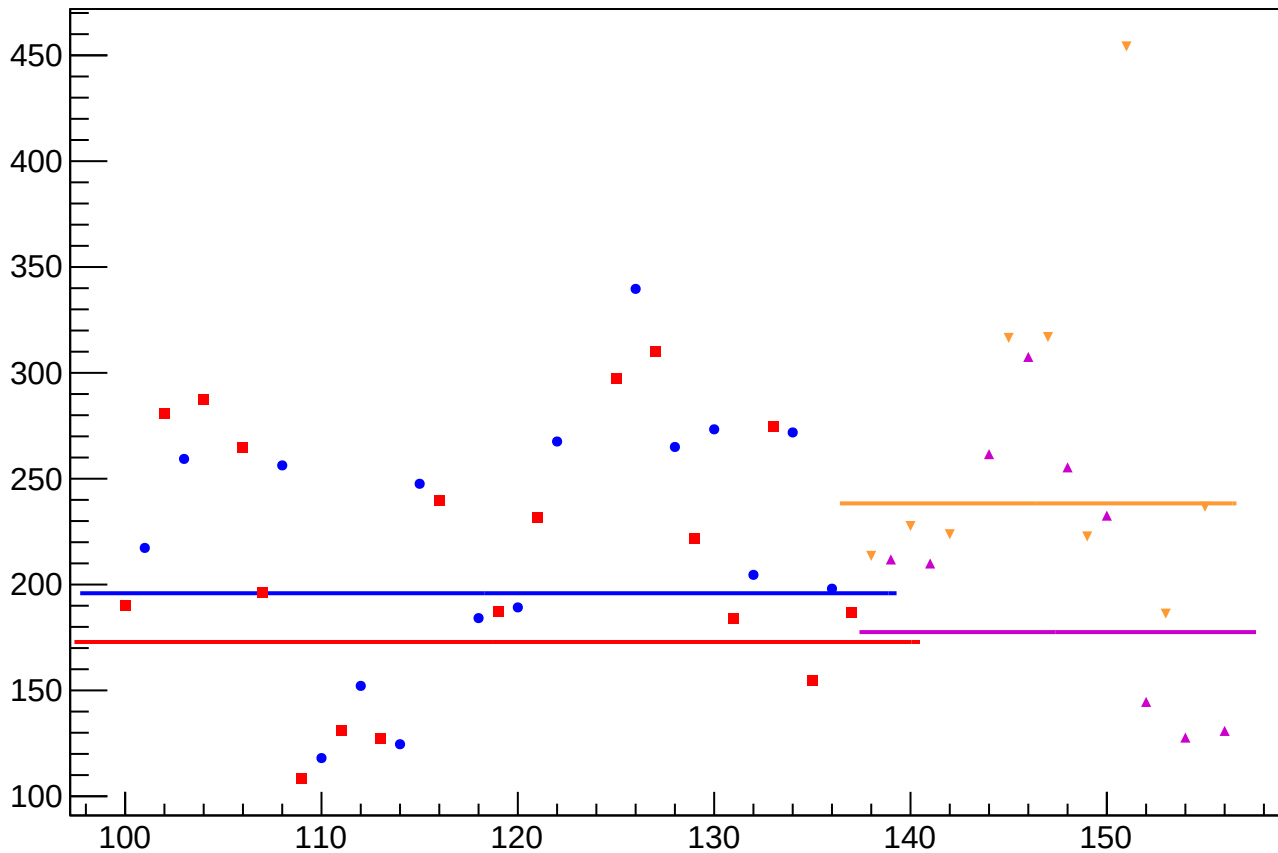
Right: -91.452 ± 51.426 $\chi^2/\text{NDF}: 29.3/33$

In: 77.860 ± 51.405 $\chi^2/\text{NDF}: 23.1/24$

Out: -14.162 ± 55.641 $\chi^2/\text{NDF}: 25.4/26$

All: 35.484 ± 37.758 $\chi^2/\text{NDF}: 50.0/51$

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: 238.334 $\pm$ 0.066 χ^2 /NDF: 715029.7/8

Right Out: 172.873 $\pm$ 0.049 χ^2 /NDF: 1543258.3/17

Left In: 177.543 $\pm$ 0.049 χ^2 /NDF: 1336299.0/8

Left: 198.963 $\pm$ 0.039 χ^2 /NDF: 2596647.4/17

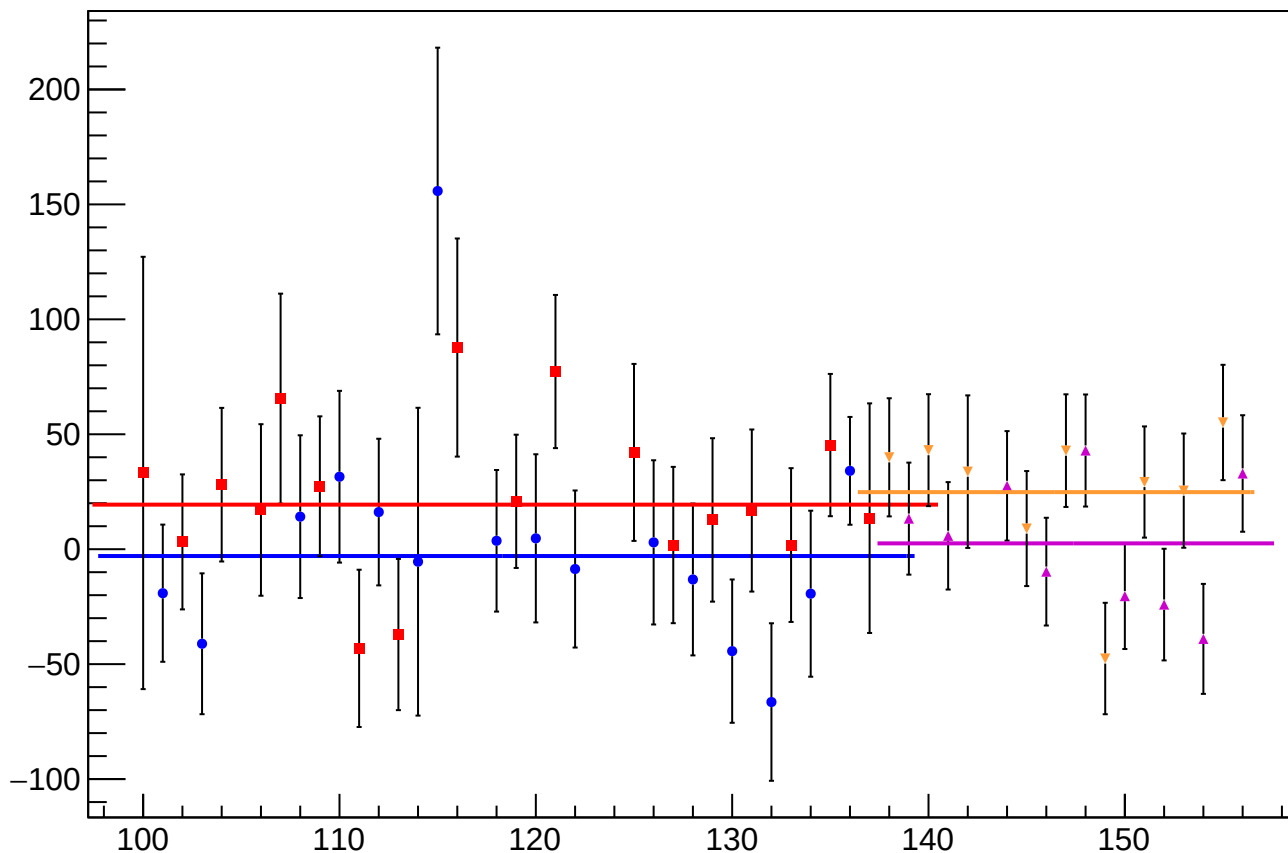
Right: 183.167 $\pm$ 0.036 χ^2 /NDF: 2653391.3/33

In: 185.743 $\pm$ 0.036 χ^2 /NDF: 2410344.3/24

Out: 195.961 $\pm$ 0.039 χ^2 /NDF: 2890282.9/26

All: 190.448 $\pm$ 0.027 χ^2 /NDF: 5337017.0/51

asym_bcm_dg_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -2.967 ± 8.454 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 24.832 ± 8.453 $\chi^2/\text{NDF}: 12.3/8$

Right Out: 19.387 ± 8.381 $\chi^2/\text{NDF}: 14.5/17$

Left In: 2.539 ± 7.988 $\chi^2/\text{NDF}: 11.0/8$

Left: 13.055 ± 5.806 $\chi^2/\text{NDF}: 27.0/17$

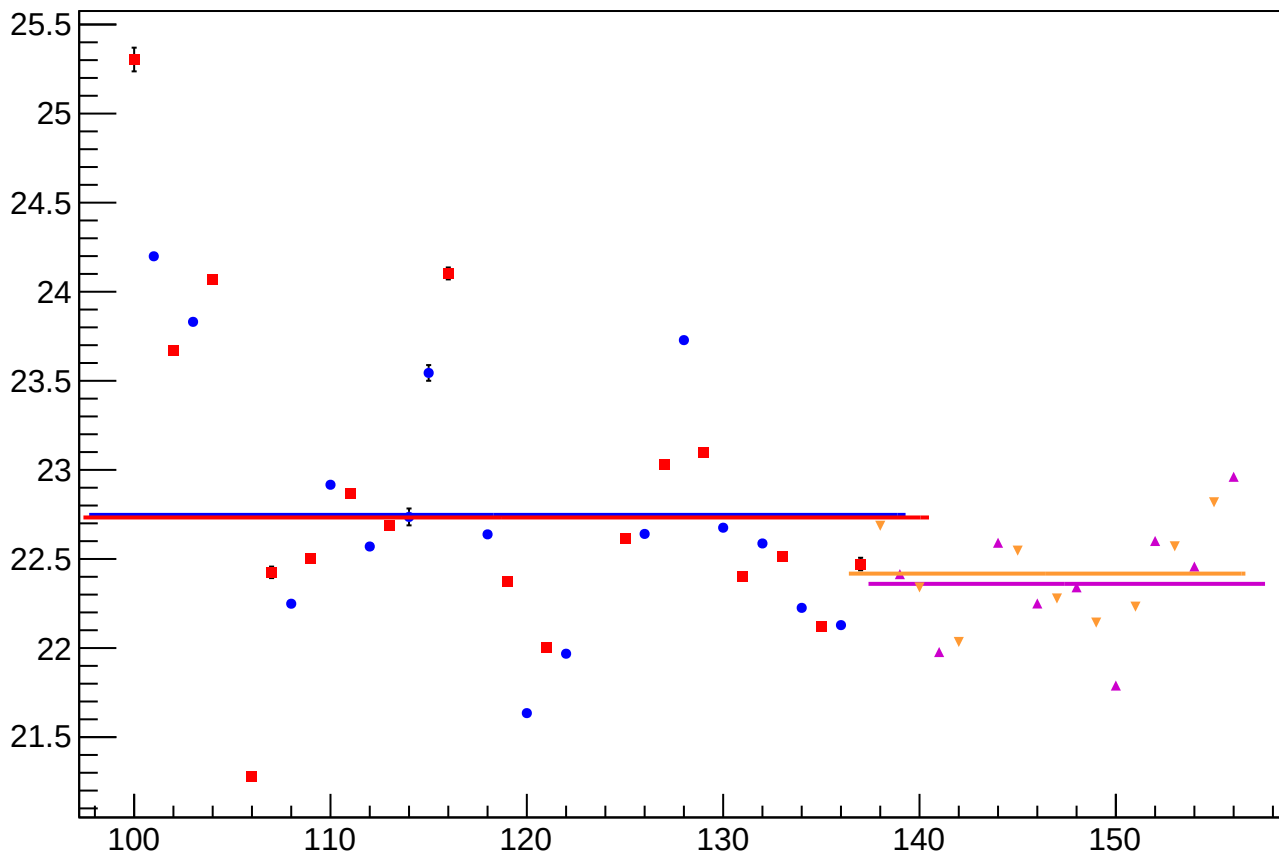
Right: 8.306 ± 5.952 $\chi^2/\text{NDF}: 36.0/33$

In: -0.058 ± 5.806 $\chi^2/\text{NDF}: 29.1/24$

Out: 22.087 ± 5.952 $\chi^2/\text{NDF}: 27.1/26$

All: 10.740 ± 4.156 $\chi^2/\text{NDF}: 63.3/51$

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: 22.418 $\pm$ 0.006 χ^2 /NDF:1584.4/8

Right Out: 22.733 $\pm$ 0.006 χ^2 /NDF: 14389.6/17

Left In: 22.360 $\pm$ 0.006 χ^2 /NDF:3365.1/8

Left: 22.387 $\pm$ 0.004 χ^2 /NDF: 4998.4/17

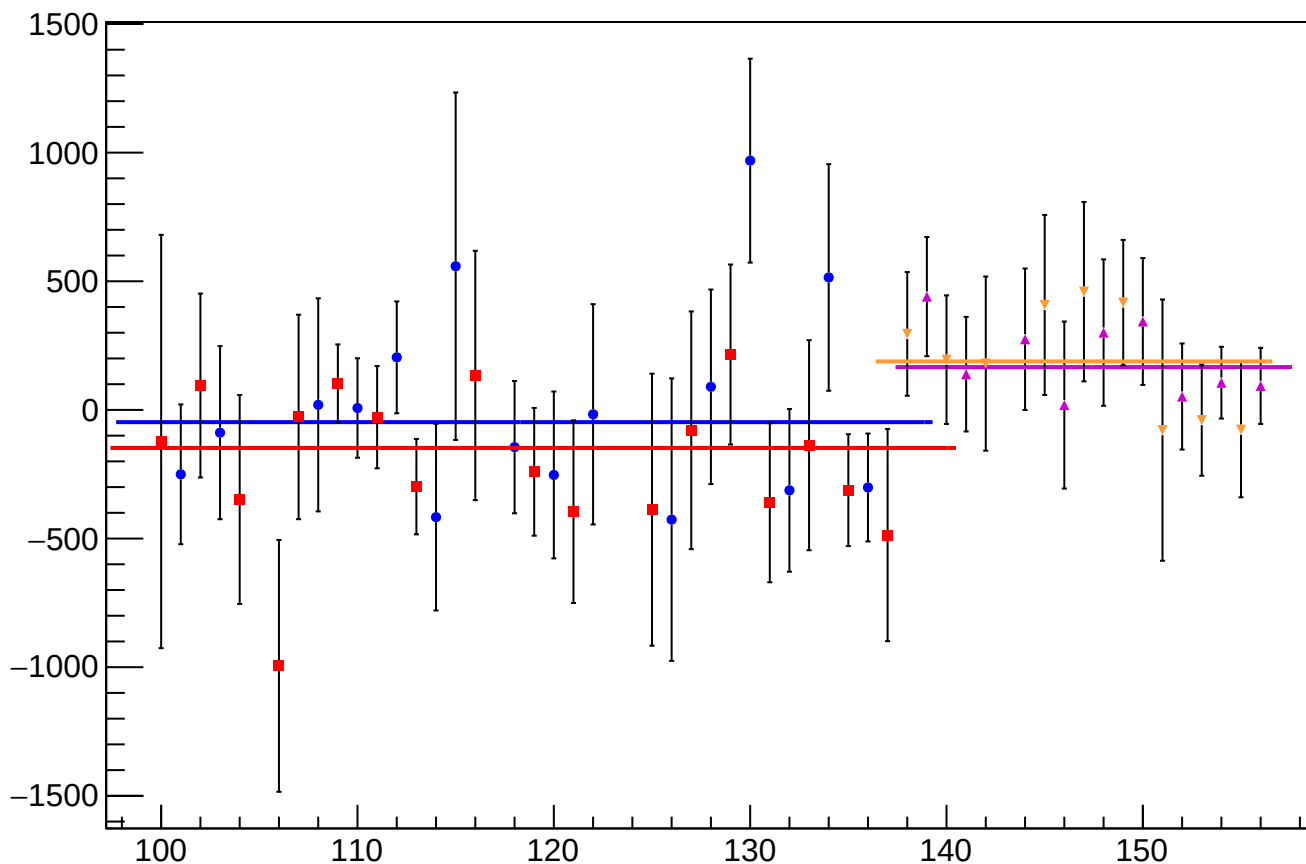
Right: 22.740 $\pm$ 0.004 χ^2 /NDF: 29015.4/33

In: 22.543 $\pm$ 0.004 χ^2 /NDF:20203.6/24

Out: 22.577 $\pm$ 0.004 χ^2 /NDF:17375.3/26

All: 22.559 $\pm$ 0.003 χ^2 /NDF: 37611.9/51

asym_bcm_dg_ds_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -47.523 ± 76.571 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 188.545 ± 93.224 $\chi^2/\text{NDF}: 4.5/8$

Right Out: -147.812 ± 68.660 $\chi^2/\text{NDF}: 11.5/17$

Left In: 166.442 ± 68.838 $\chi^2/\text{NDF}: 3.3/8$

Left: 174.241 ± 55.377 $\chi^2/\text{NDF}: 7.8/17$

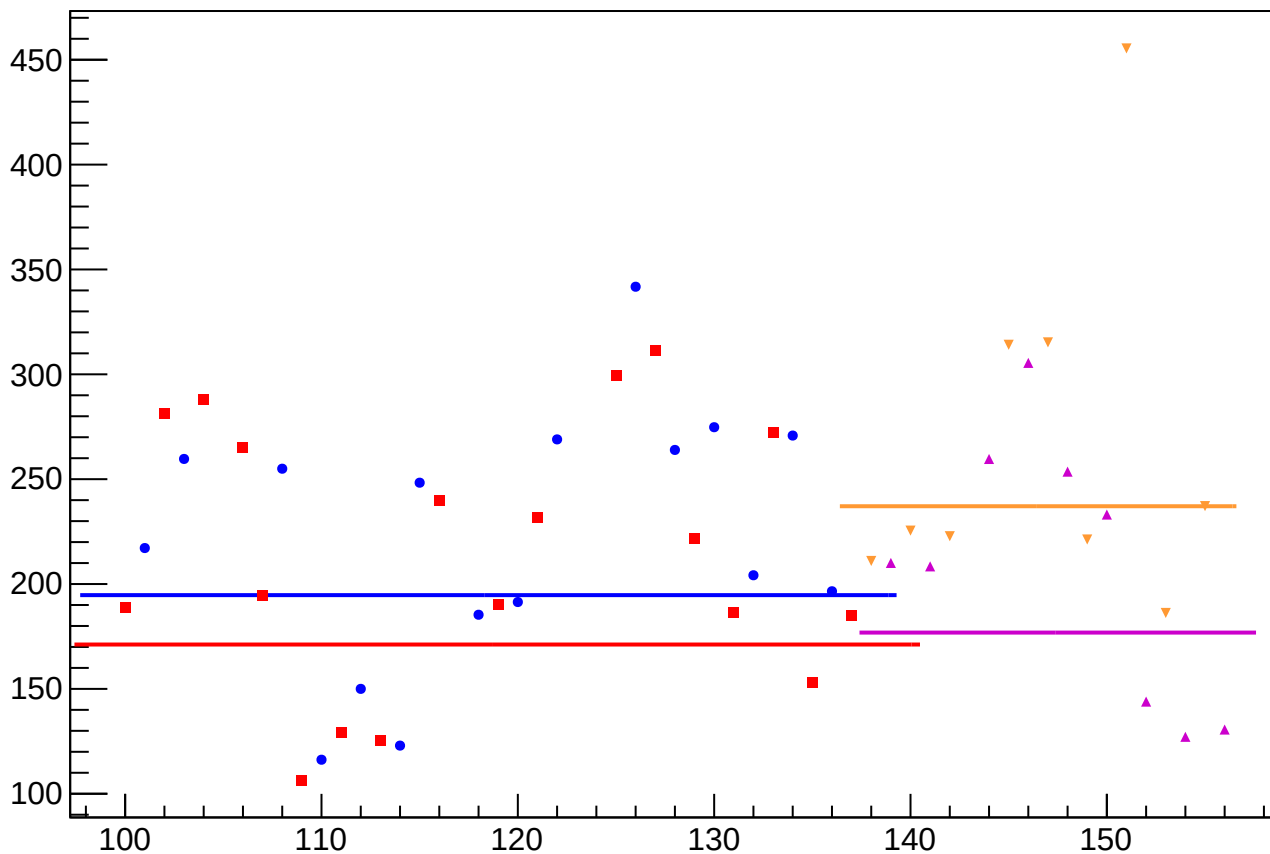
Right: -103.114 ± 51.119 $\chi^2/\text{NDF}: 27.9/33$

In: 70.806 ± 51.192 $\chi^2/\text{NDF}: 23.0/24$

Out: -29.524 ± 55.284 $\chi^2/\text{NDF}: 24.5/26$

All: 24.491 ± 37.562 $\chi^2/\text{NDF}: 49.2/51$

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: 237.094+/-0.066 χ^2/NDF : 717970.4/8

Right Out: 171.156+/-0.049 χ^2/NDF : 1611935.6/17

Left In: 176.850+/-0.049 χ^2/NDF : 1326701.6/8

Left: 198.107+/-0.039 χ^2/NDF : 2585182.6/17

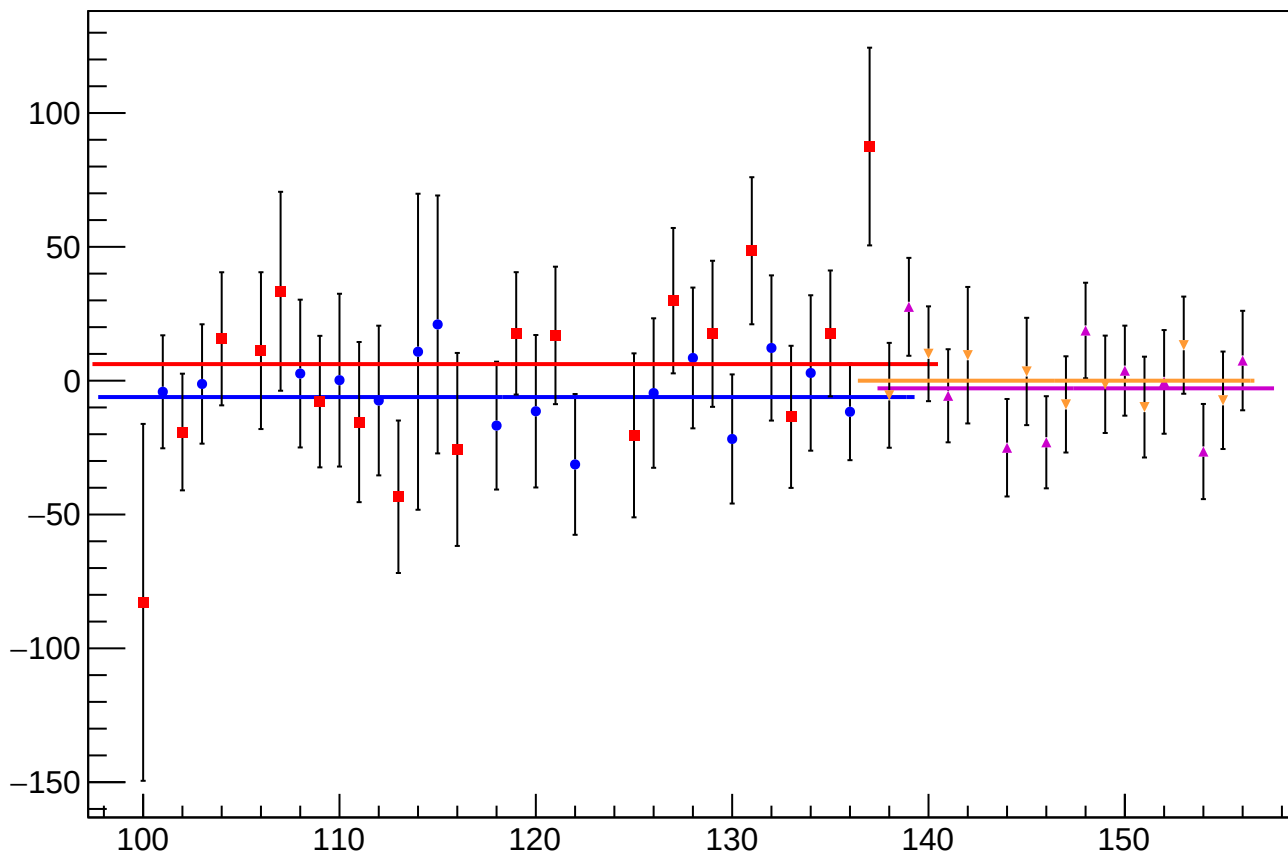
Right: 181.653+/-0.036 χ^2/NDF : 2769105.7/33

In: 184.832+/-0.036 χ^2/NDF : 2439153.0/24

Out: 194.345+/-0.039 χ^2/NDF : 2978591.2/26

All: 189.223+/-0.027 χ^2/NDF : 5449627.1/51

asym_bcm_dg_ds_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -6.119 ± 6.592 χ^2/NDF : 3.1/15

Left Out: -0.005 ± 6.349 χ^2/NDF : 1.8/8

Right Out: 6.195 ± 6.580 χ^2/NDF : 18.6/17

Left In: -2.865 ± 5.967 χ^2/NDF : 9.4/8

Left: -1.524 ± 4.348 χ^2/NDF : 11.3/17

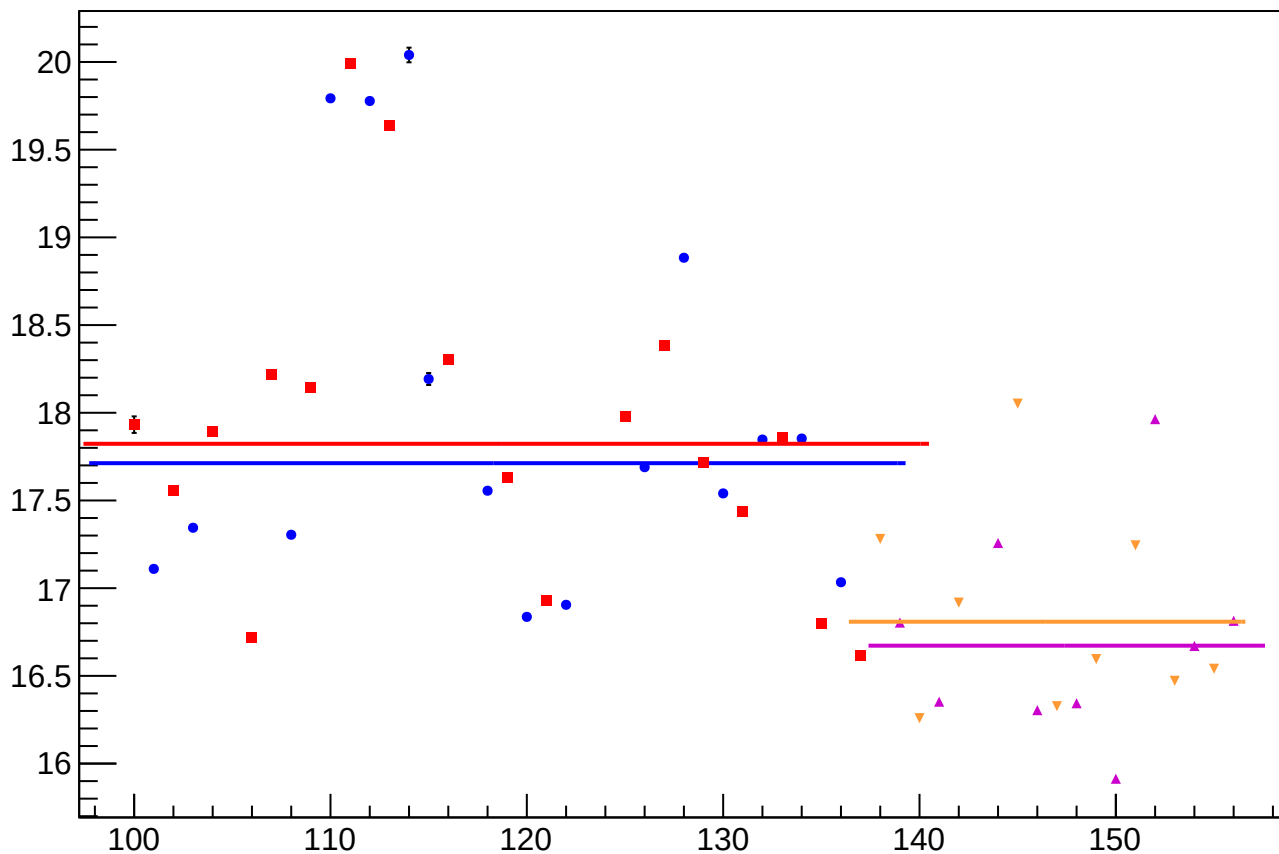
Right: 0.049 ± 4.657 χ^2/NDF : 23.5/33

In: -4.330 ± 4.424 χ^2/NDF : 12.6/24

Out: 2.984 ± 4.569 χ^2/NDF : 20.9/26

All: -0.791 ± 3.178 χ^2/NDF : 34.8/51

asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 17.713 $\pm$ 0.005 χ^2 /NDF: 35983.5/15

Left Out: 16.809 $\pm$ 0.004 χ^2 /NDF:14718.5/8

Right Out: 17.823 $\pm$ 0.005 χ^2 /NDF: 32502.9/17

Left In: 16.672 $\pm$ 0.004 χ^2 /NDF:17513.5/8

Left: 16.736 $\pm$ 0.003 χ^2 /NDF: 32723.5/17

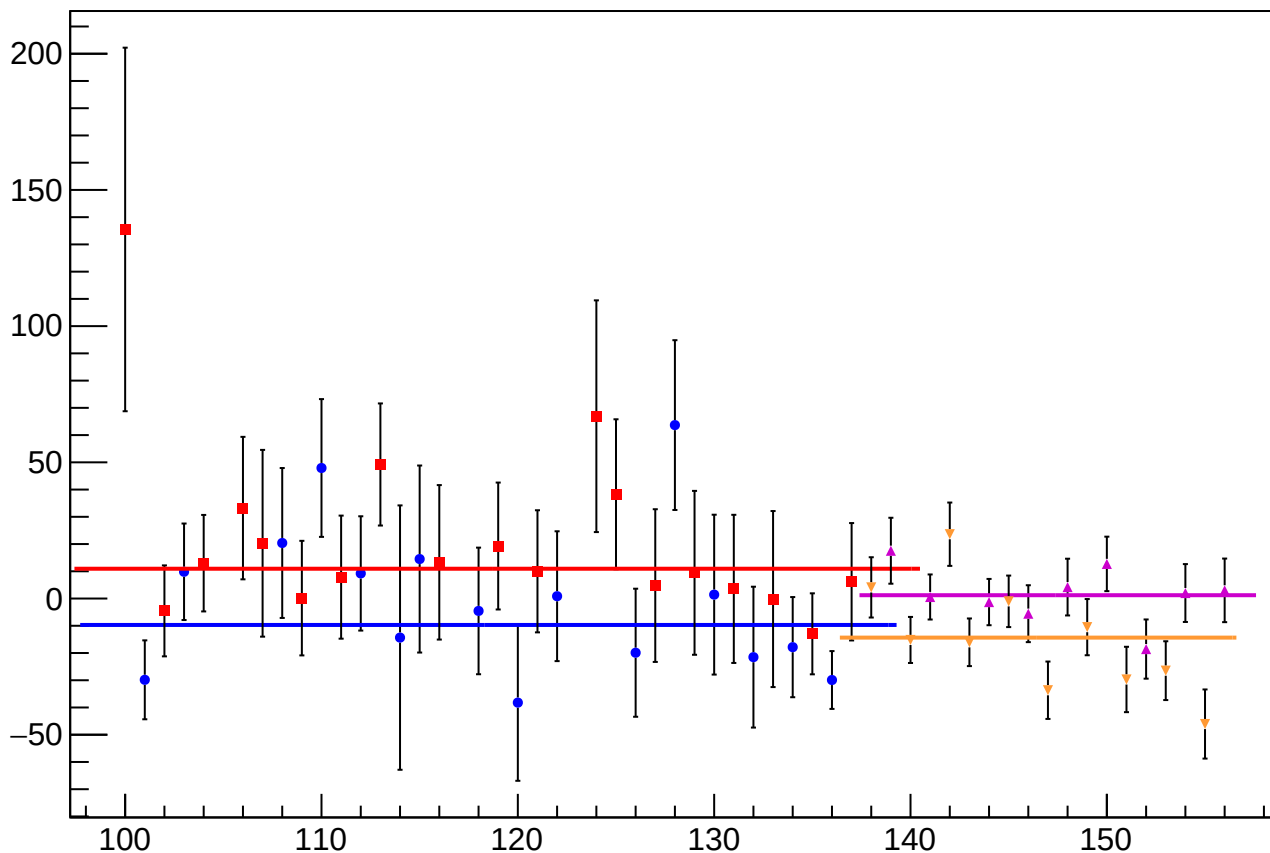
Right: 17.768 $\pm$ 0.003 χ^2 /NDF: 68768.1/33

In: 17.141 $\pm$ 0.003 χ^2 /NDF:80883.1/24

Out: 17.298 $\pm$ 0.003 χ^2 /NDF:71837.0/26

All: 17.217 $\pm$ 0.002 χ^2 /NDF: 153940.7/51

diff_bpm_4aX_4acX_avg_mean vs Slug, Sign Corrected



Right In: -9.702 ± 5.231 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -14.347 ± 3.262 $\chi^2/\text{NDF}: 28.1/9$

Right Out: 10.938 ± 5.436 $\chi^2/\text{NDF}: 14.1/18$

Left In: 1.219 ± 3.364 $\chi^2/\text{NDF}: 7.1/8$

Left: -6.804 ± 2.342 $\chi^2/\text{NDF}: 46.2/18$

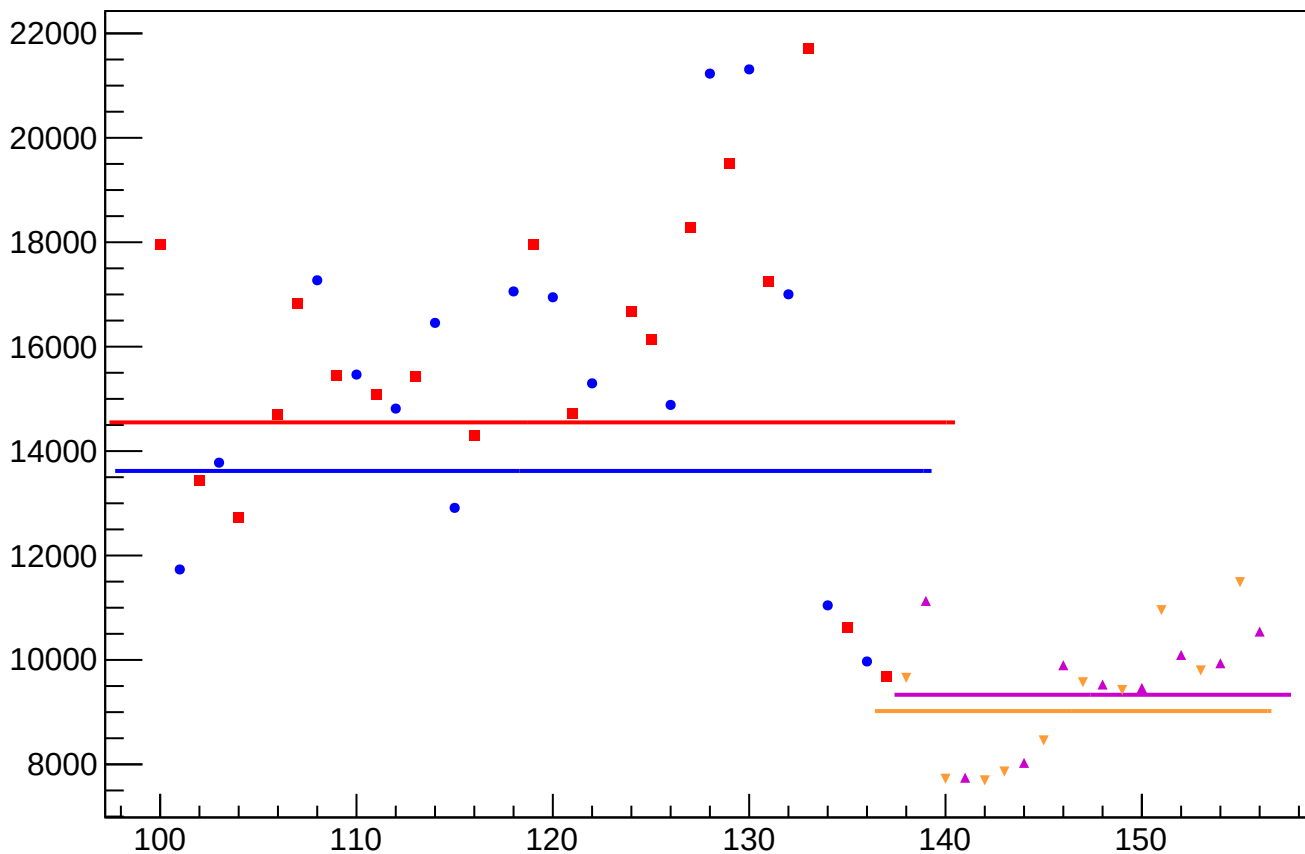
Right: 0.222 ± 3.769 $\chi^2/\text{NDF}: 43.6/34$

In: -1.976 ± 2.830 $\chi^2/\text{NDF}: 32.2/24$

Out: -7.652 ± 2.797 $\chi^2/\text{NDF}: 58.1/28$

All: -4.847 ± 1.989 $\chi^2/\text{NDF}: 92.3/53$

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: 9020.696 $\pm$ 2.307 χ^2 /NDF:268482.2/9

Right Out: 14549.658 $\pm$ 3.844 χ^2 /NDF: 555902.2/18

Left In: 9332.916 $\pm$ 2.379 χ^2 /NDF:209745.8/8

Left: 9171.993 $\pm$ 1.656 χ^2 /NDF: 487106.0/18

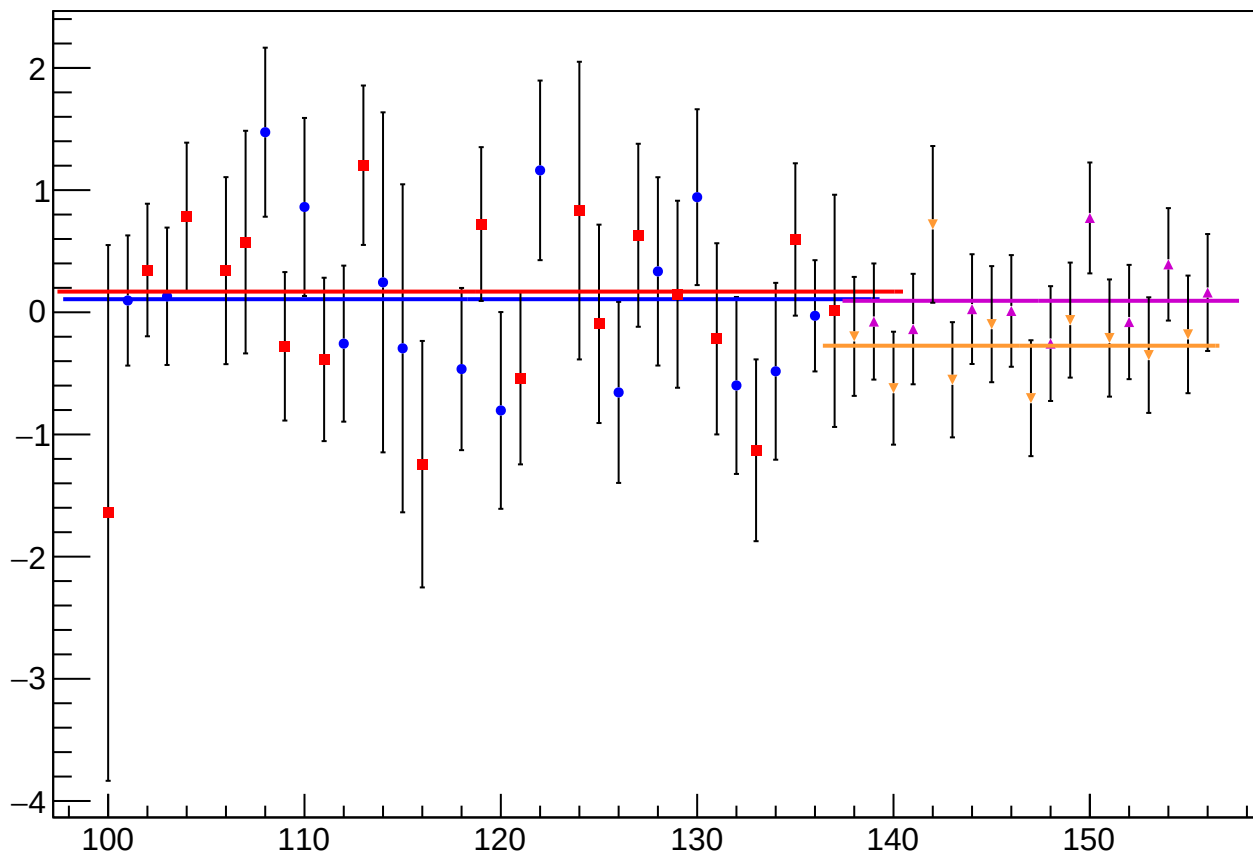
Right: 14066.907 $\pm$ 2.665 χ^2 /NDF: 1333265.9/34

In: 10587.168 $\pm$ 2.001 χ^2 /NDF:1906827.0/24

Out: 10484.534 $\pm$ 1.978 χ^2 /NDF:2345482.2/28

All: 10535.258 $\pm$ 1.407 χ^2 /NDF: 4253639.9/5

diff_bpm_4aX_4acX_dd_mean vs Slug, Sign Corrected



Right In: 0.107 ± 0.172 $\chi^2/\text{NDF}: 13.7/15$

Left Out: -0.274 ± 0.154 $\chi^2/\text{NDF}: 4.6/9$

Right Out: 0.169 ± 0.169 $\chi^2/\text{NDF}: 14.1/18$

Left In: 0.094 ± 0.154 $\chi^2/\text{NDF}: 3.8/8$

Left: -0.090 ± 0.109 $\chi^2/\text{NDF}: 11.2/18$

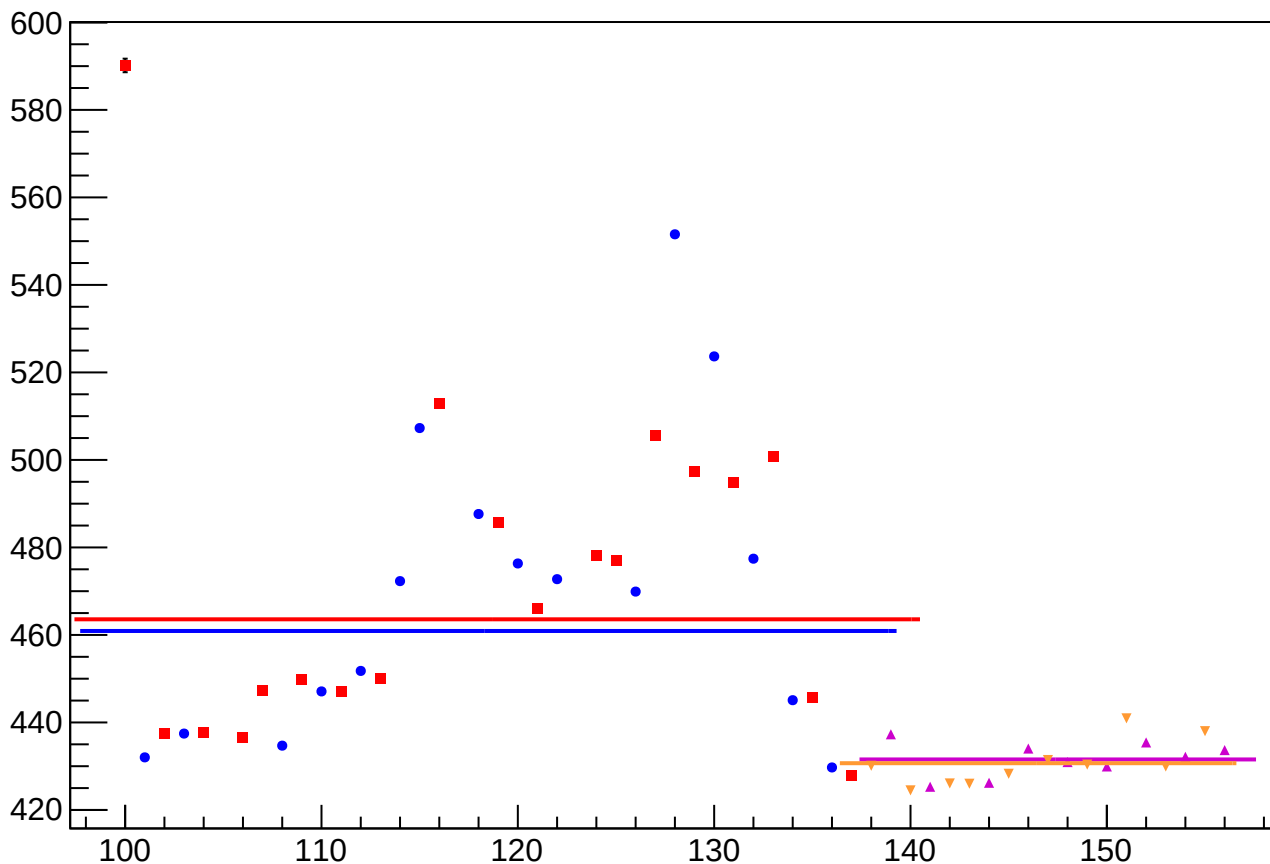
Right: 0.139 ± 0.121 $\chi^2/\text{NDF}: 27.8/34$

In: 0.100 ± 0.115 $\chi^2/\text{NDF}: 17.5/24$

Out: -0.074 ± 0.114 $\chi^2/\text{NDF}: 22.4/28$

All: 0.013 ± 0.081 $\chi^2/\text{NDF}: 41.1/53$

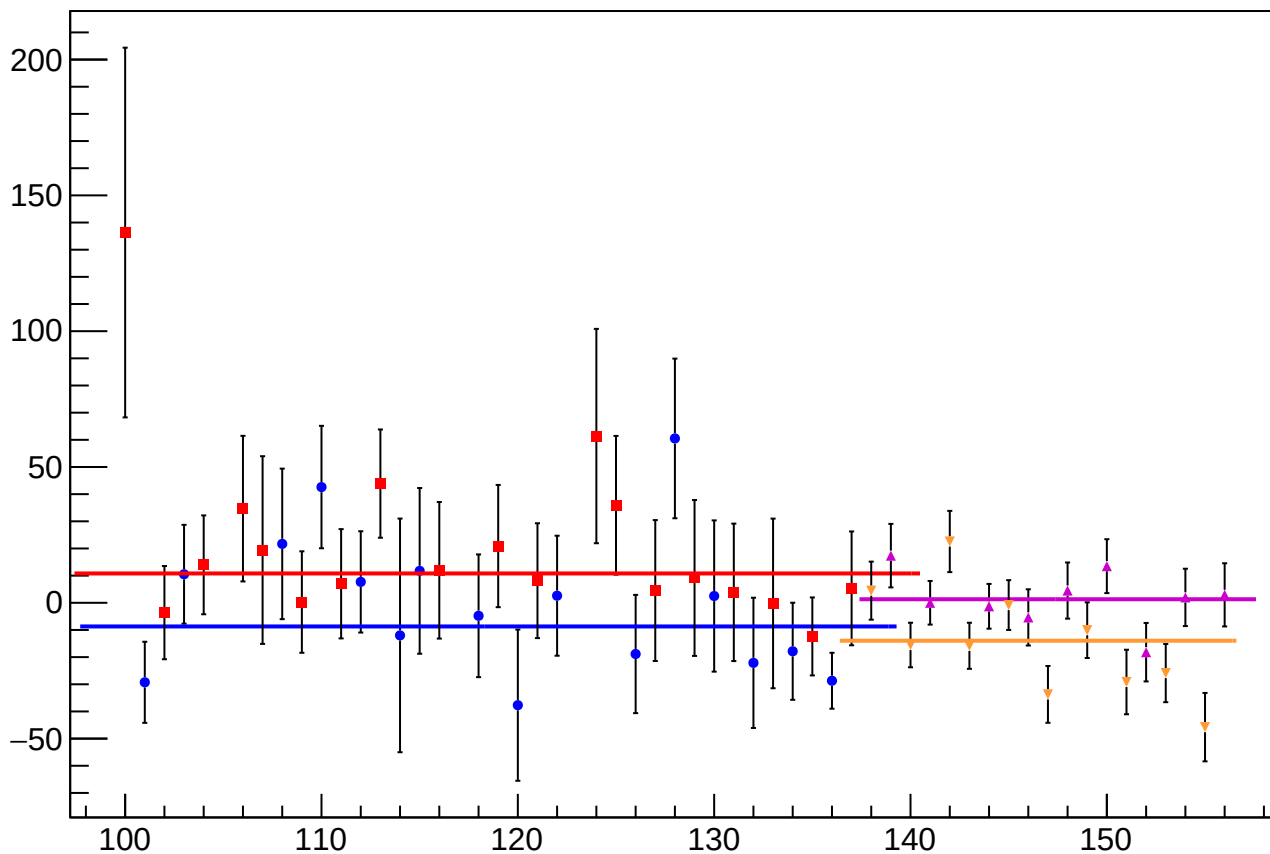
diff_bpm_4aX_4acX_dd_rms vs Slug, Sign Corrected



Right In: 460.906 $\pm$ 0.121 χ^2/NDF : 74930.1/15
 Left Out: 430.686 $\pm$ 0.109 χ^2/NDF : 2104.1/9
 Right Out: 463.573 $\pm$ 0.120 χ^2/NDF : 52175.6/18
 Left In: 431.545 $\pm$ 0.109 χ^2/NDF : 1224.6/8

Left: 431.114 $\pm$ 0.077 χ^2/NDF : 3359.8/18
 Right: 462.257 $\pm$ 0.085 χ^2/NDF : 127350.1/34
 In: 444.644 $\pm$ 0.081 χ^2/NDF : 108543.9/24
 Out: 445.529 $\pm$ 0.080 χ^2/NDF : 95619.6/28
 All: 445.090 $\pm$ 0.057 χ^2/NDF : 204223.6/53

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: -13.958 ± 3.194 $\chi^2/\text{NDF}: 28.6/9$

Right Out: 10.807 ± 5.192 $\chi^2/\text{NDF}: 13.9/18$

Left In: 1.311 ± 3.308 $\chi^2/\text{NDF}: 7.3/8$

Left: -6.591 ± 2.298 $\chi^2/\text{NDF}: 46.9/18$

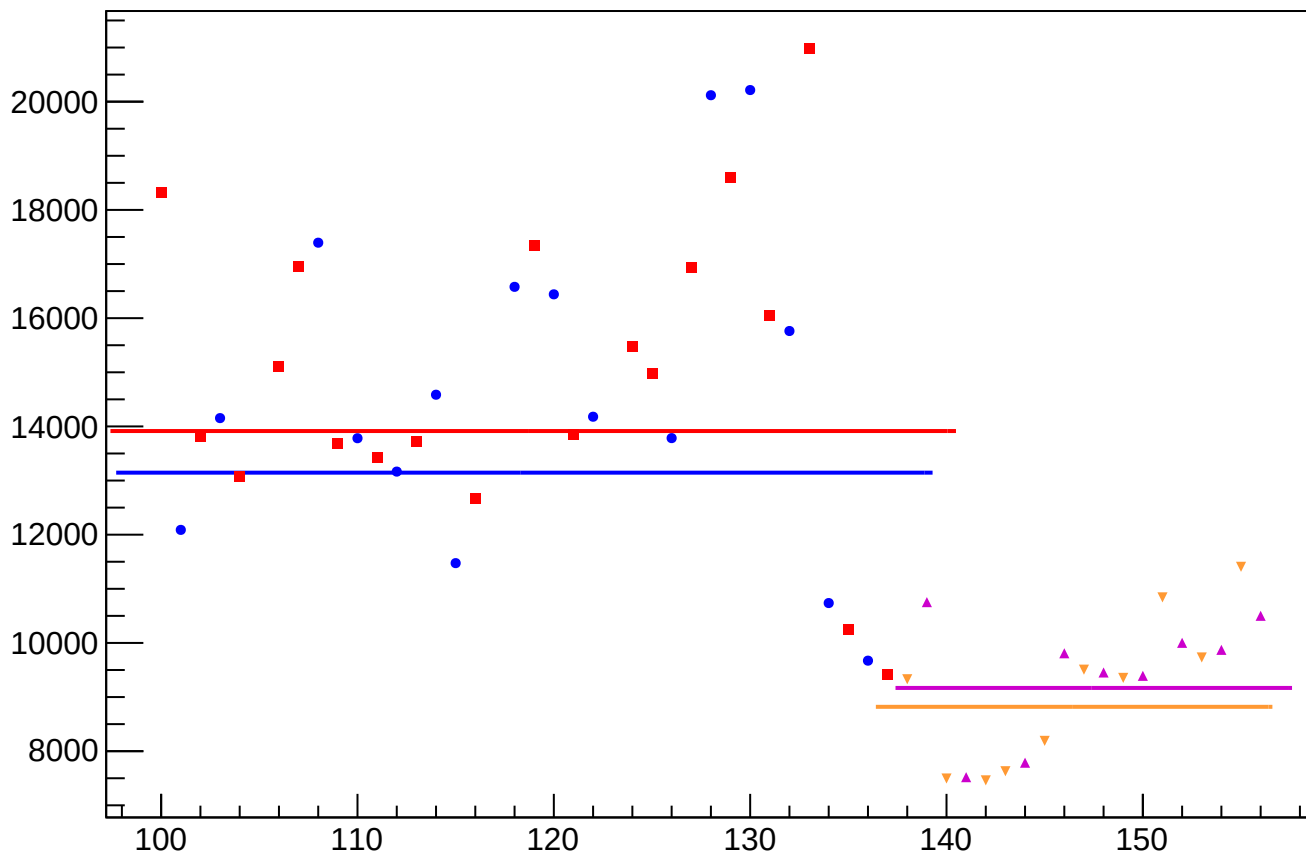
Right: 0.753 ± 3.615 $\chi^2/\text{NDF}: 43.4/34$

In: -1.709 ± 2.765 $\chi^2/\text{NDF}: 32.4/24$

Out: -7.159 ± 2.720 $\chi^2/\text{NDF}: 59.0/28$

All: -4.478 ± 1.939 $\chi^2/\text{NDF}: 93.3/53$

diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected



Right In: 13145.853 $\pm$ 3.561 χ^2/NDF : 682620.1/15

Left Out: 8819.727 $\pm$ 2.258 χ^2/NDF : 305302.0/9

Right Out: 13914.770 $\pm$ 3.671 χ^2/NDF : 511000.7/18

Left In: 9168.652 $\pm$ 2.339 χ^2/NDF : 234585.0/8

Left: 8988.073 $\pm$ 1.625 χ^2/NDF : 551405.2/18

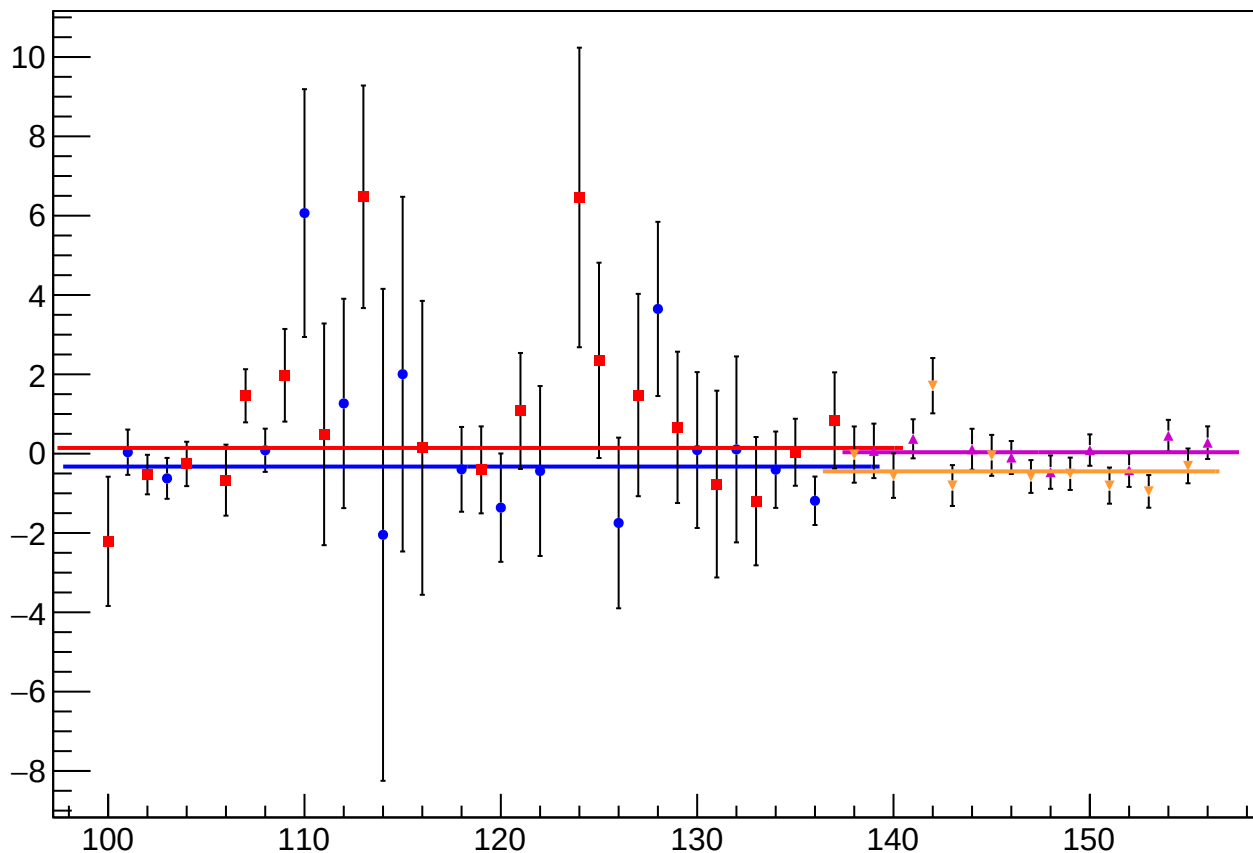
Right: 13518.600 $\pm$ 2.556 χ^2/NDF : 1216225.3/34

In: 10367.383 $\pm$ 1.955 χ^2/NDF : 1788741.1/24

Out: 10218.505 $\pm$ 1.923 χ^2/NDF : 2213785.0/28

All: 10291.738 $\pm$ 1.371 χ^2/NDF : 4005473.1/5

diff_bpm_4aX_4eX_dd_mean vs Slug, Sign Corrected



Right In: -0.326 ± 0.244 χ^2/NDF : 12.6/15

Left Out: -0.446 ± 0.153 χ^2/NDF : 13.4/9

Right Out: 0.144 ± 0.244 χ^2/NDF : 22.5/18

Left In: 0.036 ± 0.148 χ^2/NDF : 4.6/8

Left: -0.197 ± 0.107 χ^2/NDF : 23.2/18

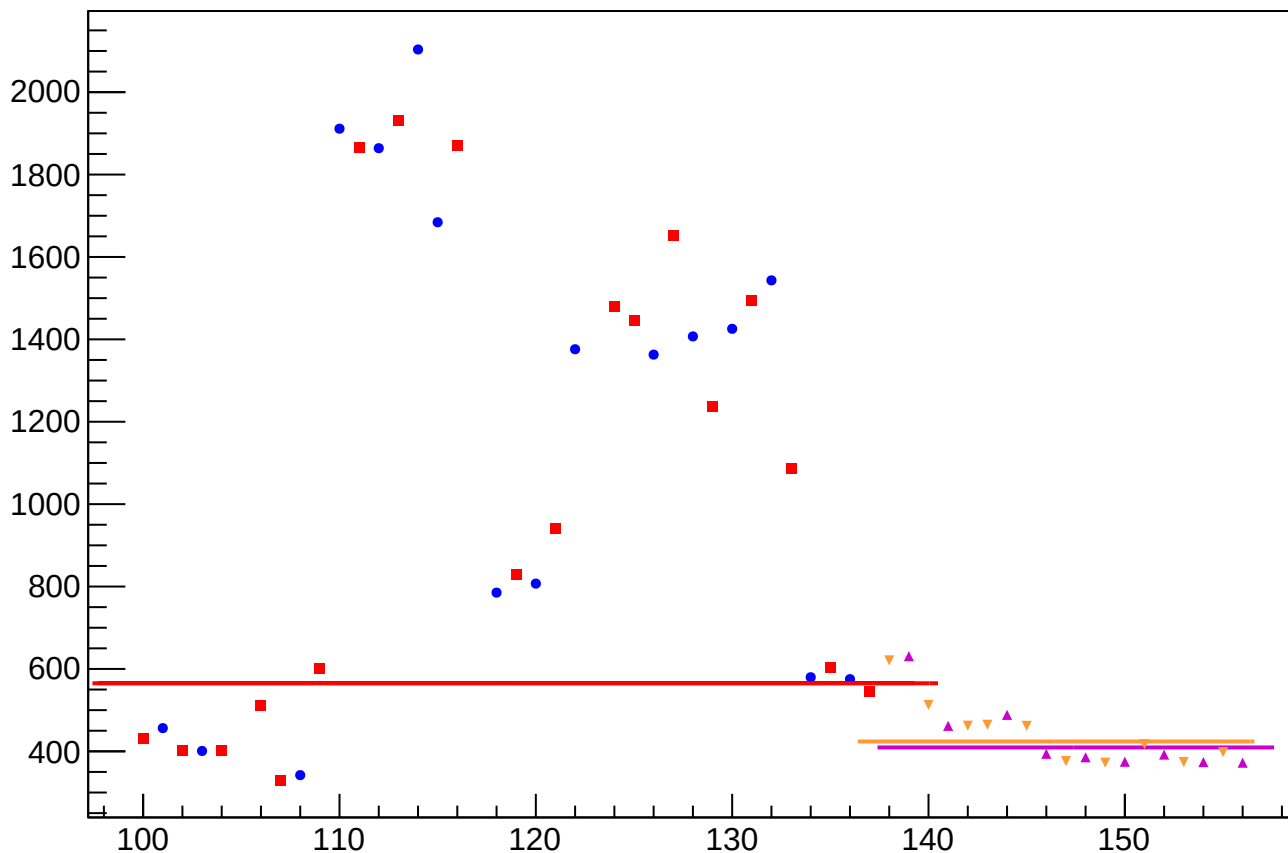
Right: -0.091 ± 0.173 χ^2/NDF : 36.9/34

In: -0.061 ± 0.127 χ^2/NDF : 18.8/24

Out: -0.279 ± 0.130 χ^2/NDF : 40.1/28

All: -0.168 ± 0.091 χ^2/NDF : 60.3/53

diff_bpm_4aX_4eX_dd_rms vs Slug, Sign Corrected



Right In: 565.531 $\pm$ 0.173 χ^2 /NDF: 3450533.8/15

Left Out: 423.866 $\pm$ 0.108 χ^2 /NDF: 328542.0/9

Right Out: 565.223 $\pm$ 0.173 χ^2 /NDF: 3571620.7/18

Left In: 409.389 $\pm$ 0.105 χ^2 /NDF: 337560.3/8

Left: 416.370 $\pm$ 0.075 χ^2 /NDF: 675327.3/18

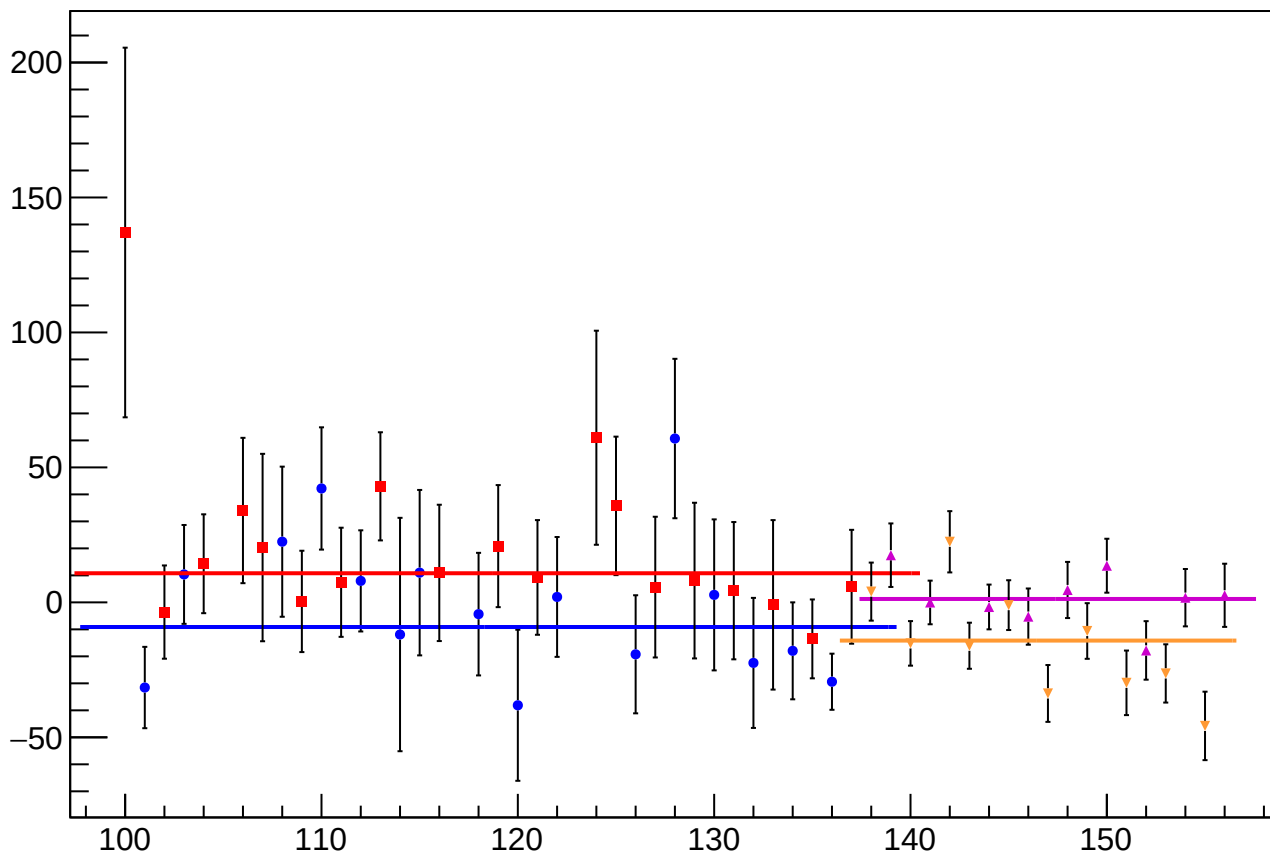
Right: 565.377 $\pm$ 0.122 χ^2 /NDF: 7022156.1/34

In: 451.363 $\pm$ 0.090 χ^2 /NDF: 4386321.4/24

Out: 463.817 $\pm$ 0.092 χ^2 /NDF: 4380256.5/28

All: 457.428 $\pm$ 0.064 χ^2 /NDF: 8776006.0/53

diff_bpm_4aX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -9.130 $\pm$ 5.069 χ^2/NDF : 22.7/15

Left Out: -14.156 $\pm$ 3.214 χ^2/NDF :28.1/9

Right Out: 10.788 $\pm$ 5.227 χ^2/NDF : 13.7/18

Left In: 1.260 $\pm$ 3.329 χ^2/NDF :7.2/8

Left: -6.719 $\pm$ 2.312 χ^2/NDF : 46.4/18

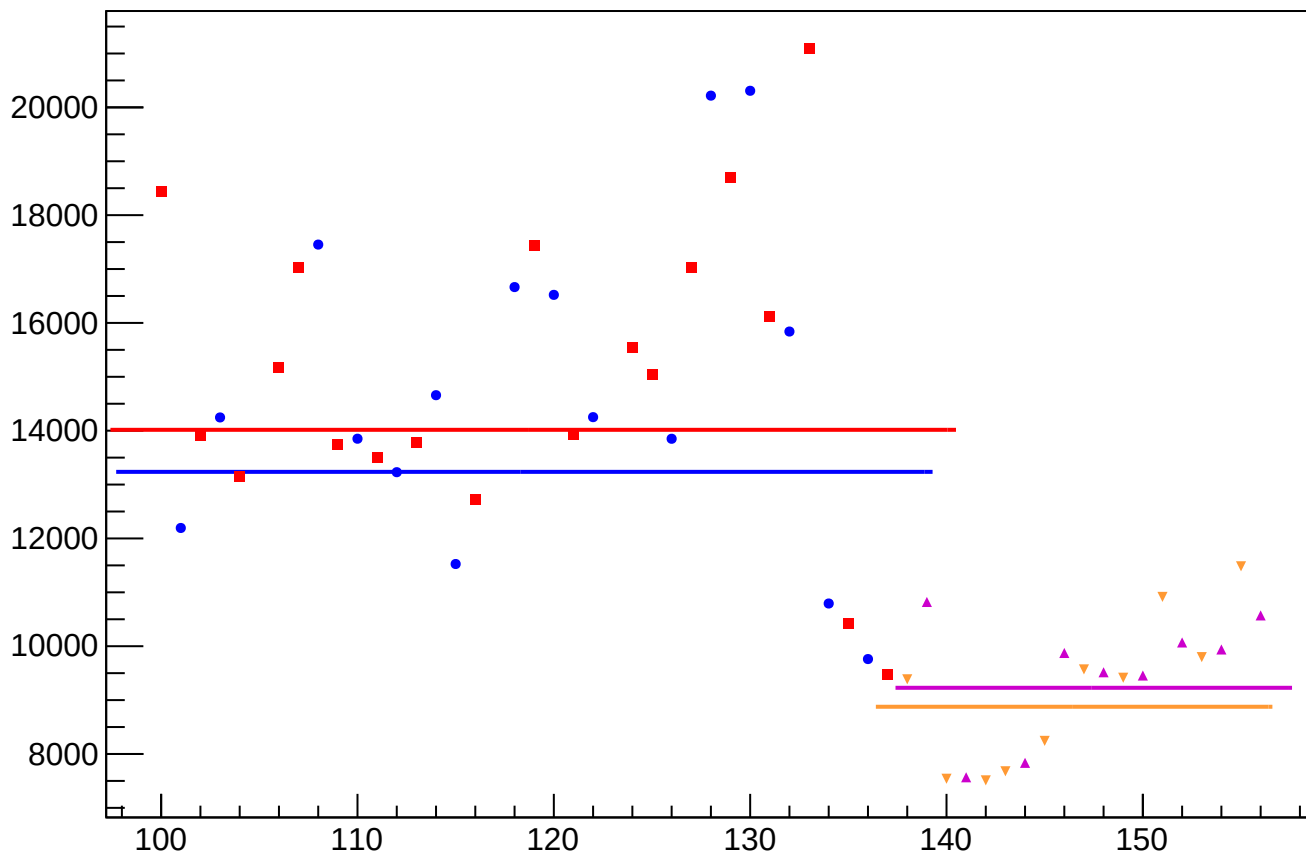
Right: 0.523 $\pm$ 3.639 χ^2/NDF : 43.9/34

In: -1.871 $\pm$ 2.783 χ^2/NDF :32.9/24

Out: -7.313 $\pm$ 2.738 χ^2/NDF :58.3/28

All: -4.636 $\pm$ 1.952 χ^2/NDF : 93.1/53

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: 8876.413 $\pm$ 2.273 χ^2 /NDF:305963.8/9

Right Out: 14016.035 $\pm$ 3.696 χ^2 /NDF: 498592.9/18

Left In: 9228.388 $\pm$ 2.354 χ^2 /NDF:235147.3/8

Left: 9046.217 $\pm$ 1.635 χ^2 /NDF: 552680.7/18

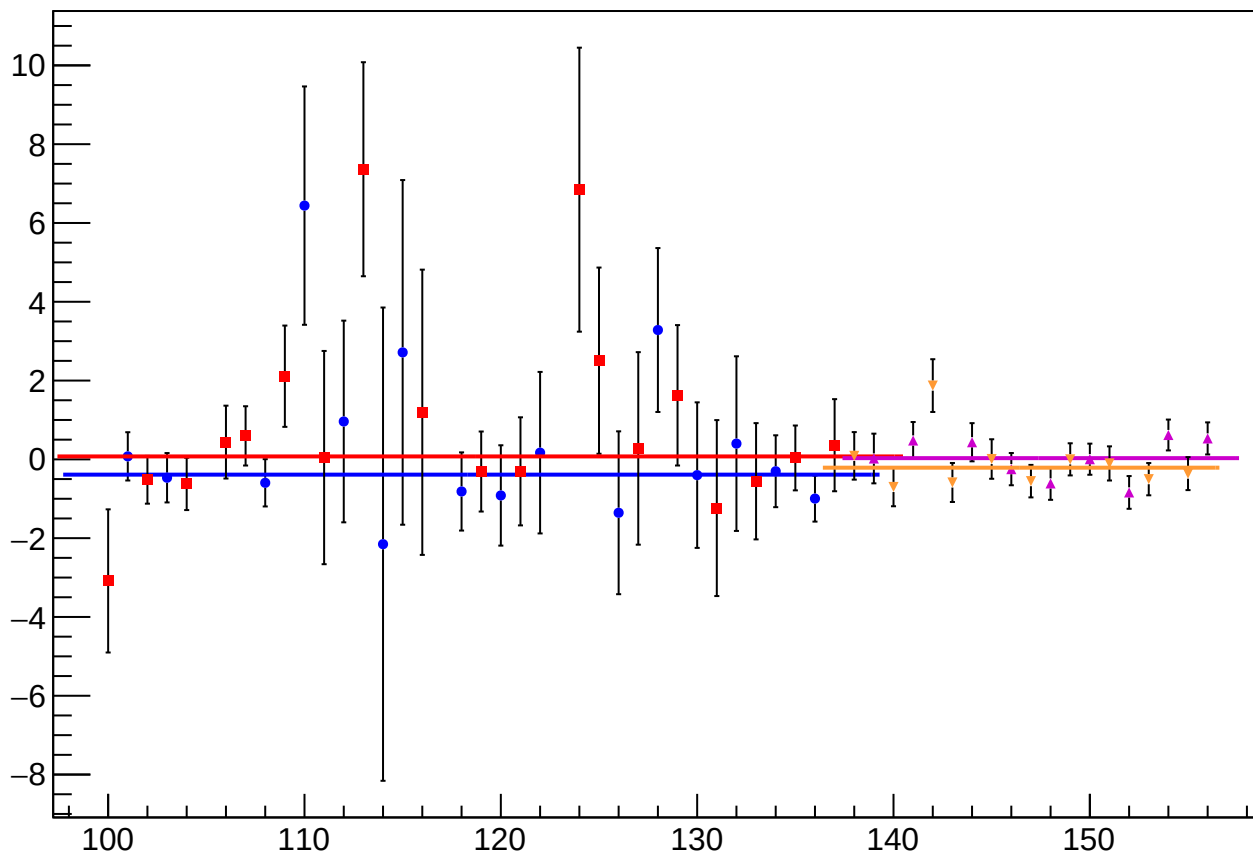
Right: 13613.950 $\pm$ 2.573 χ^2 /NDF: 1195440.4/34

In: 10436.030 $\pm$ 1.968 χ^2 /NDF:1782278.1/24

Out: 10286.499 $\pm$ 1.936 χ^2 /NDF:2207504.3/28

All: 10360.053 $\pm$ 1.380 χ^2 /NDF: 3992716.6/5

diff_bpm_4aX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: -0.388 ± 0.256 χ^2/NDF : 11.7/15

Left Out: -0.211 ± 0.147 χ^2/NDF : 13.3/9

Right Out: 0.075 ± 0.265 χ^2/NDF : 21.7/18

Left In: 0.031 ± 0.145 χ^2/NDF : 12.6/8

Left: -0.088 ± 0.103 χ^2/NDF : 27.3/18

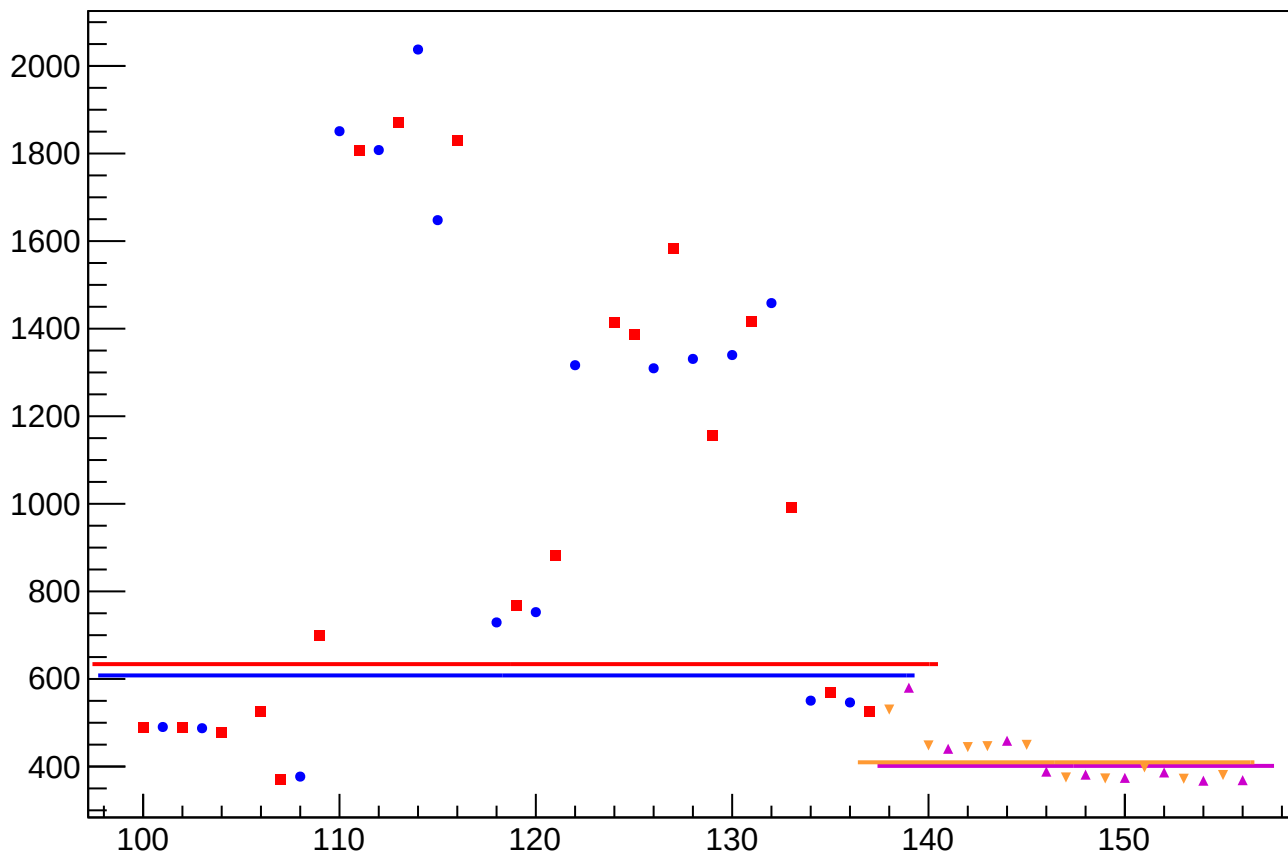
Right: -0.164 ± 0.184 χ^2/NDF : 34.9/34

In: -0.070 ± 0.126 χ^2/NDF : 26.3/24

Out: -0.143 ± 0.129 χ^2/NDF : 35.9/28

All: -0.106 ± 0.090 χ^2/NDF : 62.4/53

diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 608.063+/-0.181 χ^2/NDF : 2852722.1/15

Left Out: 409.660+/-0.104 χ^2/NDF :179500.0/9

Right Out: 633.883+/-0.187 χ^2/NDF : 2788449.1/18

Left In: 401.480+/-0.102 χ^2/NDF :248914.6/8

Left: 405.495+/-0.073 χ^2/NDF : 431555.6/18

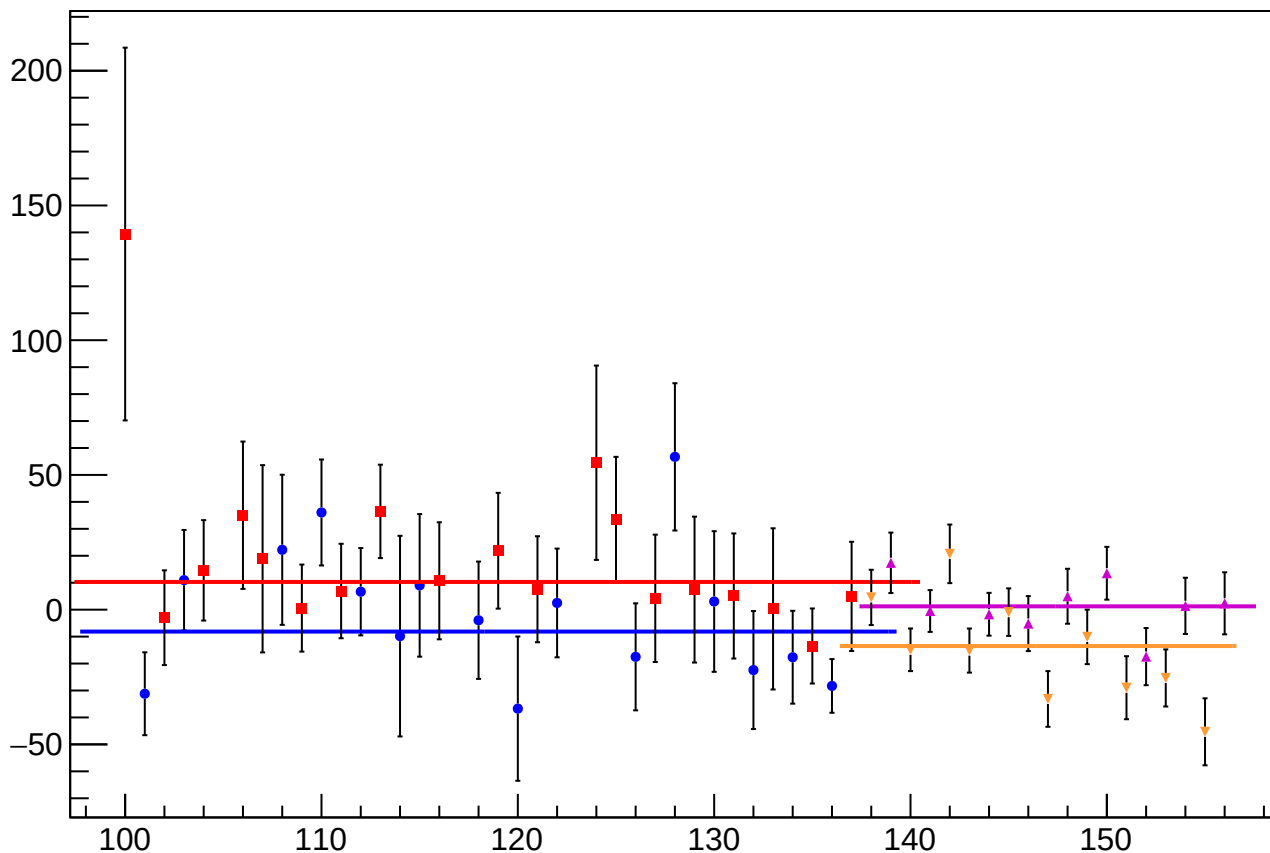
Right: 620.535+/-0.130 χ^2/NDF : 5651022.3/34

In: 451.543+/-0.089 χ^2/NDF :4090706.2/24

Out: 462.727+/-0.091 χ^2/NDF :4064890.3/28

All: 457.012+/-0.064 χ^2/NDF : 8163316.6/53

diff_bpm_4eX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -8.132 ± 4.779 $\chi^2/\text{NDF}: 23.1/15$

Left Out: -13.498 ± 3.107 $\chi^2/\text{NDF}: 28.4/9$

Right Out: 10.288 ± 4.873 $\chi^2/\text{NDF}: 13.7/18$

Left In: 1.232 ± 3.233 $\chi^2/\text{NDF}: 7.5/8$

Left: -6.424 ± 2.240 $\chi^2/\text{NDF}: 46.6/18$

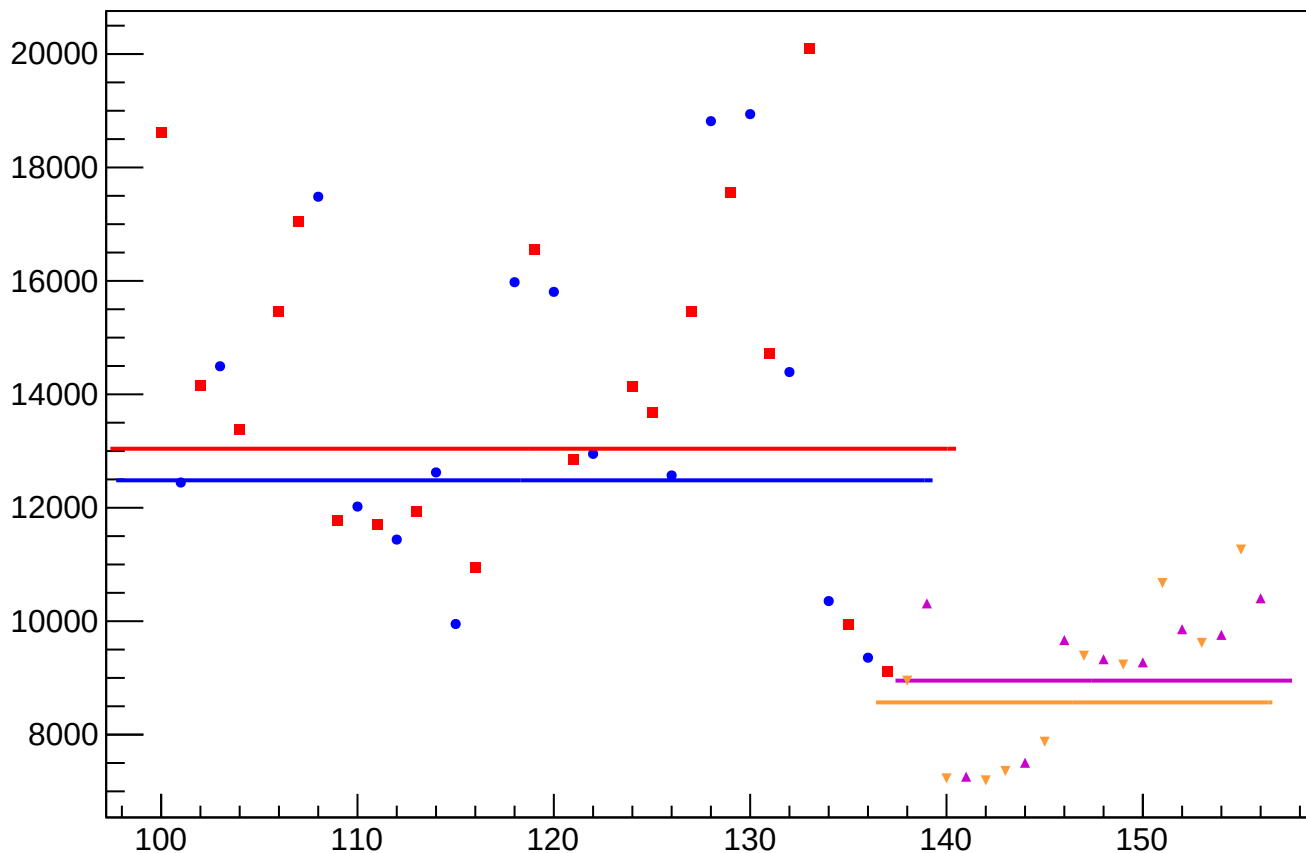
Right: 0.898 ± 3.412 $\chi^2/\text{NDF}: 44.1/34$

In: -1.708 ± 2.678 $\chi^2/\text{NDF}: 33.2/24$

Out: -6.623 ± 2.620 $\chi^2/\text{NDF}: 59.0/28$

All: -4.218 ± 1.873 $\chi^2/\text{NDF}: 93.9/53$

diff_bpm_4eX_4ecX_avg_rms vs Slug, Sign Corrected



Right In: 12483.955 +/- 3.379 χ^2/NDF : 671560.0/15

Left Out: 8568.571 +/- 2.197 χ^2/NDF : 347820.4/9

Right Out: 13041.241 +/- 3.446 χ^2/NDF : 544486.8/18

Left In: 8952.185 +/- 2.286 χ^2/NDF : 264527.1/8

Left: 8752.804 +/- 1.584 χ^2/NDF : 626986.4/18

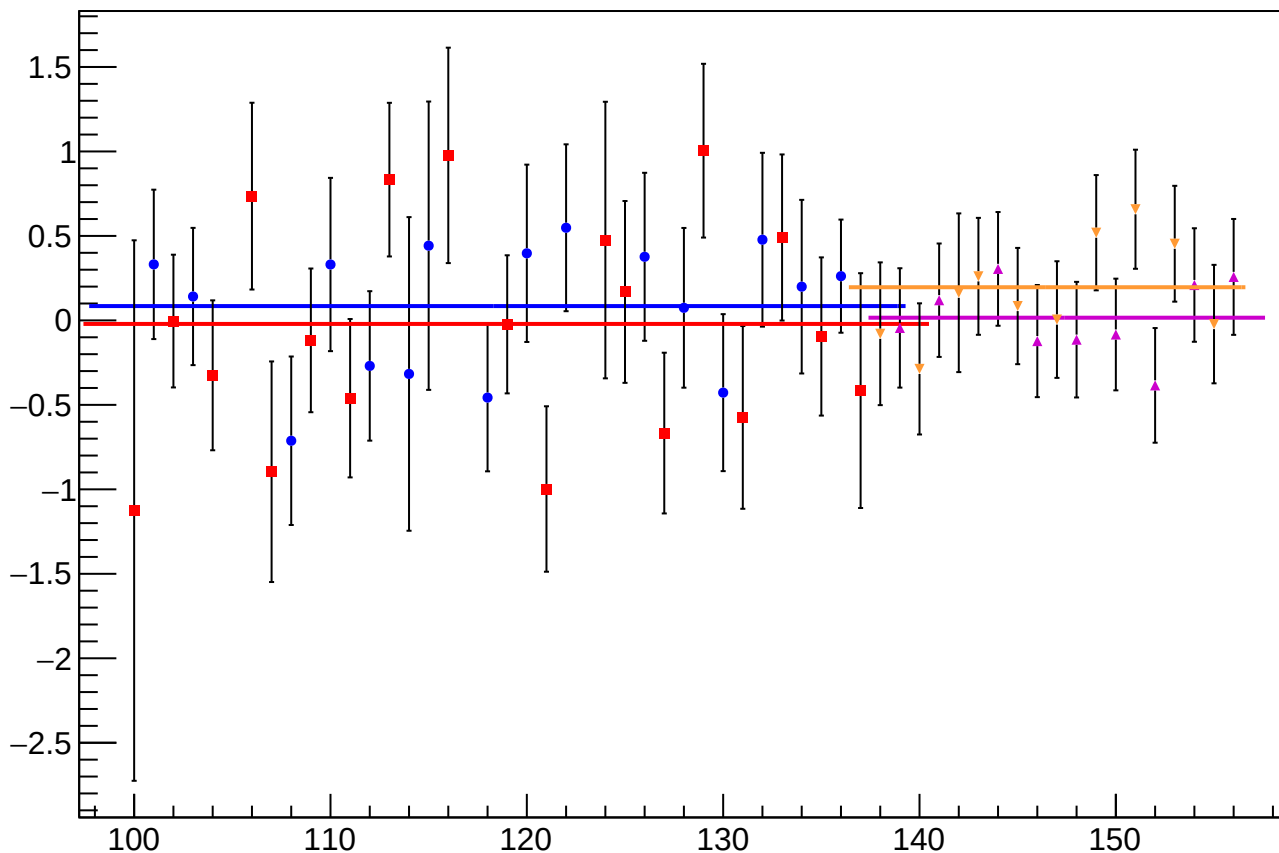
Right: 12757.154 +/- 2.413 χ^2/NDF : 1229378.8/34

In: 10060.817 +/- 1.893 χ^2/NDF : 1685481.5/24

Out: 9861.371 +/- 1.853 χ^2/NDF : 2089993.5/28

All: 9958.930 +/- 1.324 χ^2/NDF : 3781143.8/53

diff_bpm_4eX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: 0.085 $\pm$ 0.120 χ^2/NDF : 9.4/15

Left Out: 0.196 $\pm$ 0.115 χ^2/NDF : 6.0/9

Right Out: -0.021 $\pm$ 0.117 χ^2/NDF : 24.3/18

Left In: 0.016 $\pm$ 0.113 χ^2/NDF : 3.5/8

Left: 0.104 $\pm$ 0.081 χ^2/NDF : 10.7/18

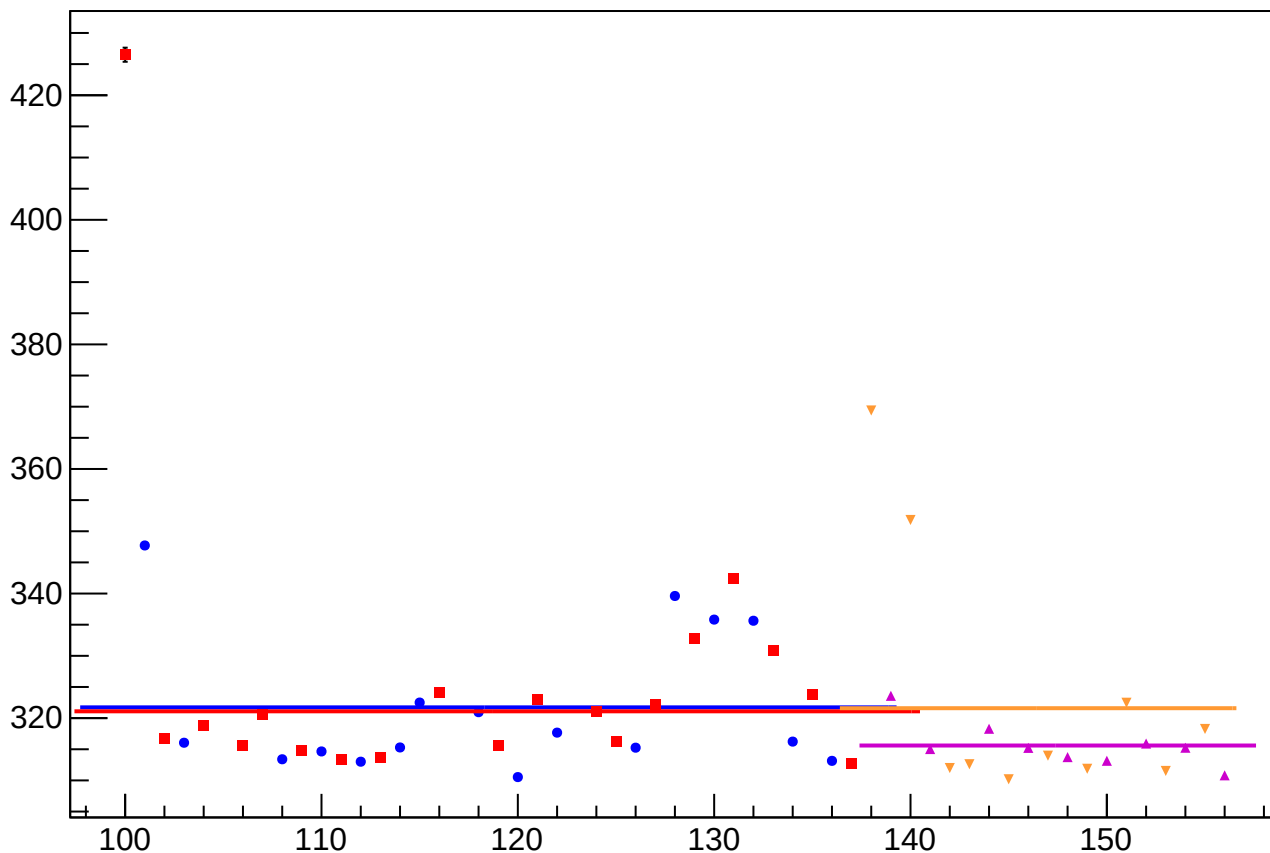
Right: 0.031 $\pm$ 0.084 χ^2/NDF : 34.1/34

In: 0.048 $\pm$ 0.082 χ^2/NDF : 13.0/24

Out: 0.090 $\pm$ 0.082 χ^2/NDF : 32.0/28

All: 0.069 $\pm$ 0.058 χ^2/NDF : 45.2/53

diff_bpm_4eX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 321.727 ± 0.085 $\chi^2/\text{NDF}: 18214.6/15$

Left Out: 321.592 ± 0.082 $\chi^2/\text{NDF}: 46628.0/9$

Right Out: 321.093 ± 0.083 $\chi^2/\text{NDF}: 16579.3/18$

Left In: 315.602 ± 0.080 $\chi^2/\text{NDF}: 1718.8/8$

Left: 318.533 ± 0.057 $\chi^2/\text{NDF}: 51105.0/18$

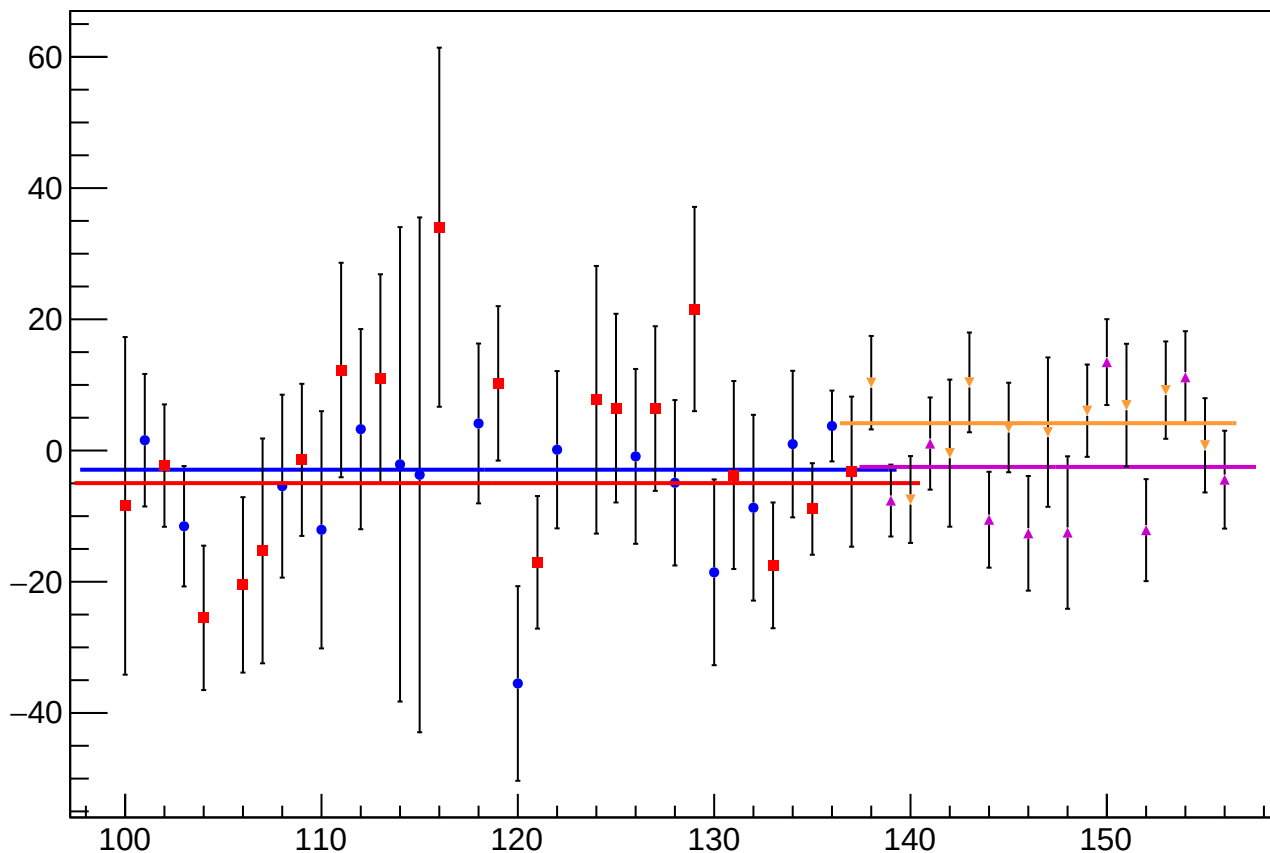
Right: 321.403 ± 0.059 $\chi^2/\text{NDF}: 34822.5/34$

In: 318.472 ± 0.058 $\chi^2/\text{NDF}: 22695.5/24$

Out: 321.347 ± 0.058 $\chi^2/\text{NDF}: 63225.8/28$

All: 319.909 ± 0.041 $\chi^2/\text{NDF}: 87142.3/53$

diff_bpm_4aY_4acY_avg_mean vs Slug, Sign Corrected



Right In: -2.922+/-2.910 χ^2/NDF : 9.8/15

Left Out: 4.164+/-2.453 χ^2/NDF : 5.5/9

Right Out: -4.965+/-2.824 χ^2/NDF : 19.4/18

Left In: -2.498+/-2.419 χ^2/NDF : 15.8/8

Left: 0.786+/-1.722 χ^2/NDF : 25.1/18

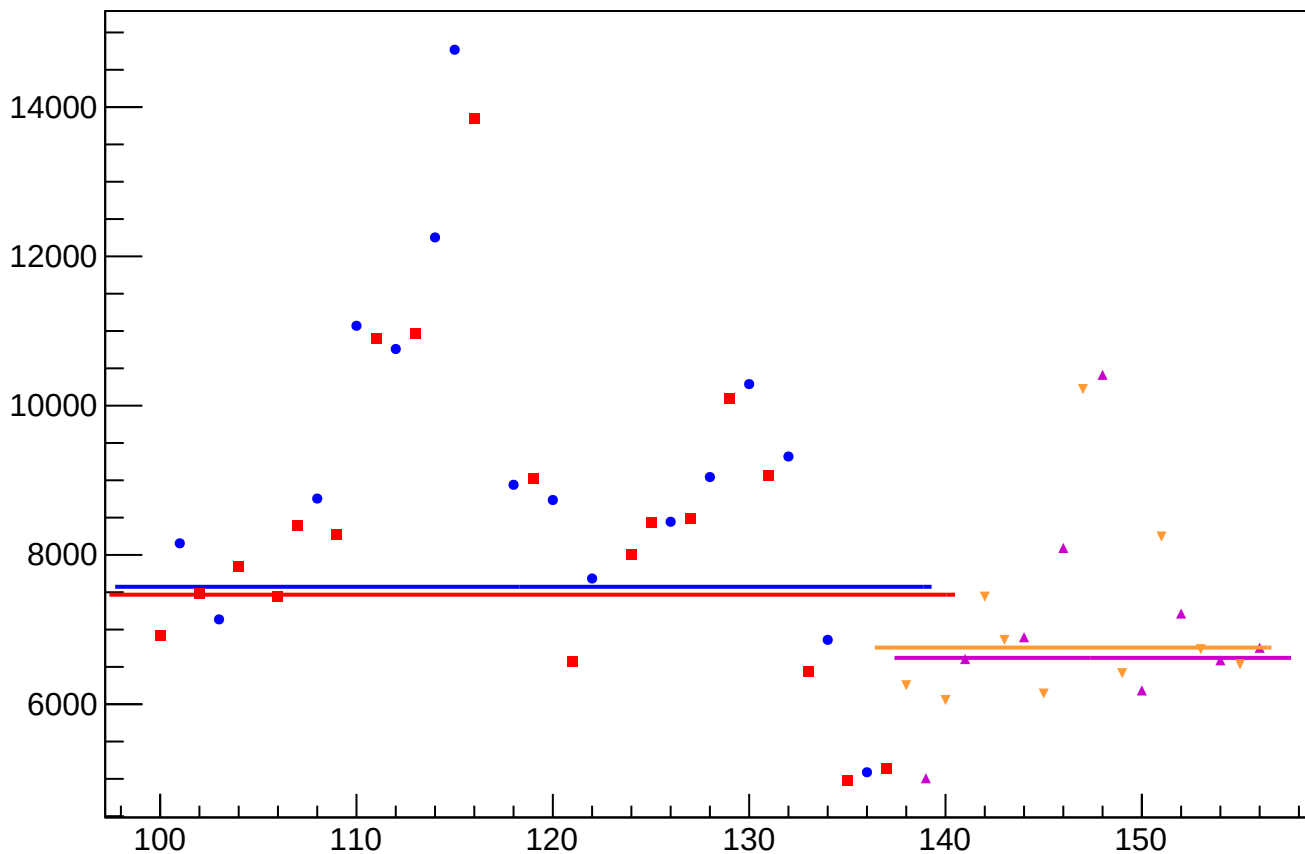
Right: -3.974+/-2.027 χ^2/NDF : 29.5/34

In: -2.671+/-1.860 χ^2/NDF : 25.6/24

Out: 0.237+/-1.852 χ^2/NDF : 30.9/28

All: -1.210+/-1.312 χ^2/NDF : 57.8/53

diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected



Right In: 7573.161 $\pm$ 2.058 χ^2 /NDF: 897588.4/15

Left Out: 6758.768 $\pm$ 1.735 χ^2 /NDF: 299108.4/9

Right Out: 7467.477 $\pm$ 1.997 χ^2 /NDF: 828353.3/18

Left In: 6620.658 $\pm$ 1.710 χ^2 /NDF: 467210.0/8

Left: 6688.732 $\pm$ 1.218 χ^2 /NDF: 769533.1/18

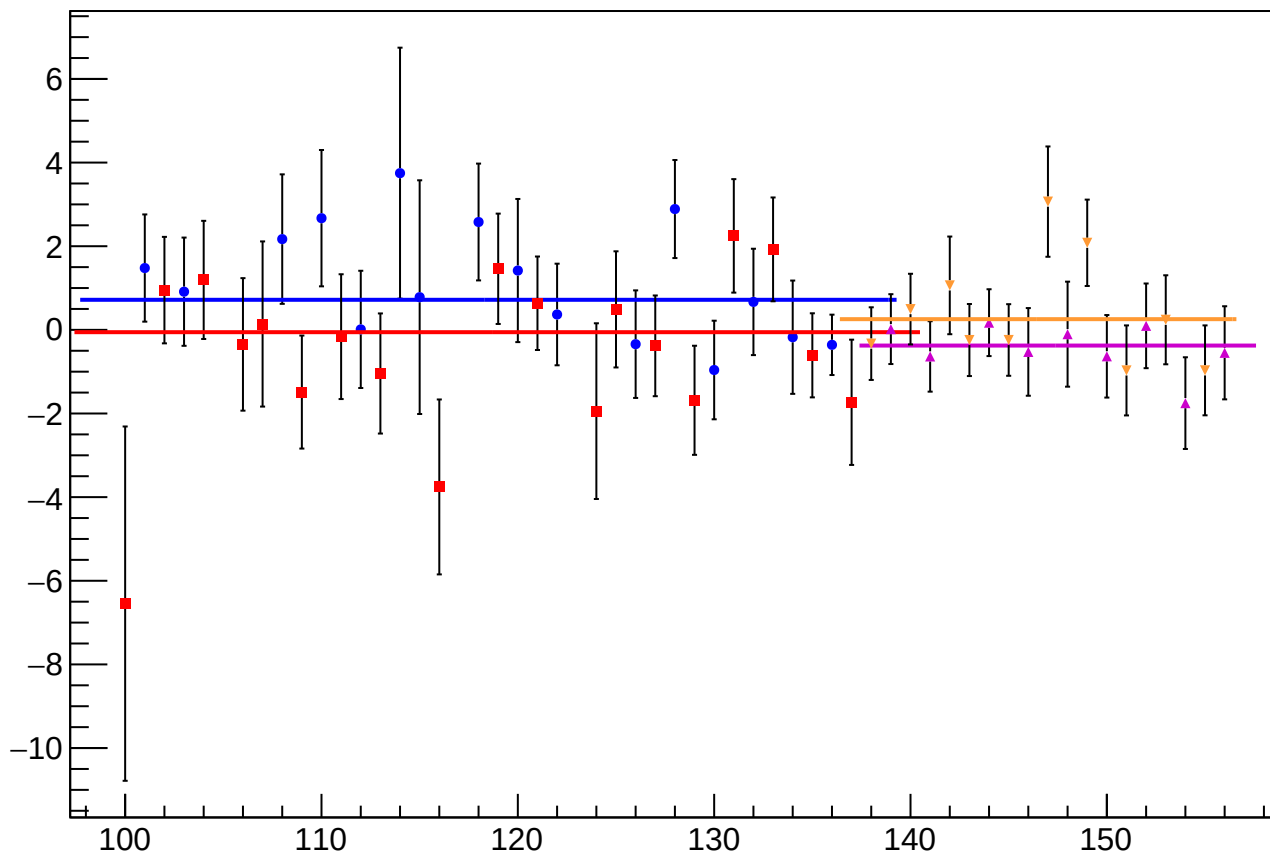
Right: 7518.728 $\pm$ 1.433 χ^2 /NDF: 1727300.0/34

In: 7009.747 $\pm$ 1.315 χ^2 /NDF: 1491518.3/24

Out: 7063.561 $\pm$ 1.310 χ^2 /NDF: 1199252.4/28

All: 7036.772 $\pm$ 0.928 χ^2 /NDF: 2691611.4/53

diff_bpm_4aY_4acY_dd_mean vs Slug, Sign Corrected



Right In: 0.719 $\pm$ 0.326 χ^2/NDF : 14.8/15

Left Out: 0.256 $\pm$ 0.312 χ^2/NDF : 11.9/9

Right Out: -0.056 $\pm$ 0.323 χ^2/NDF : 19.8/18

Left In: -0.375 $\pm$ 0.323 χ^2/NDF : 2.7/8

Left: -0.049 $\pm$ 0.224 χ^2/NDF : 16.7/18

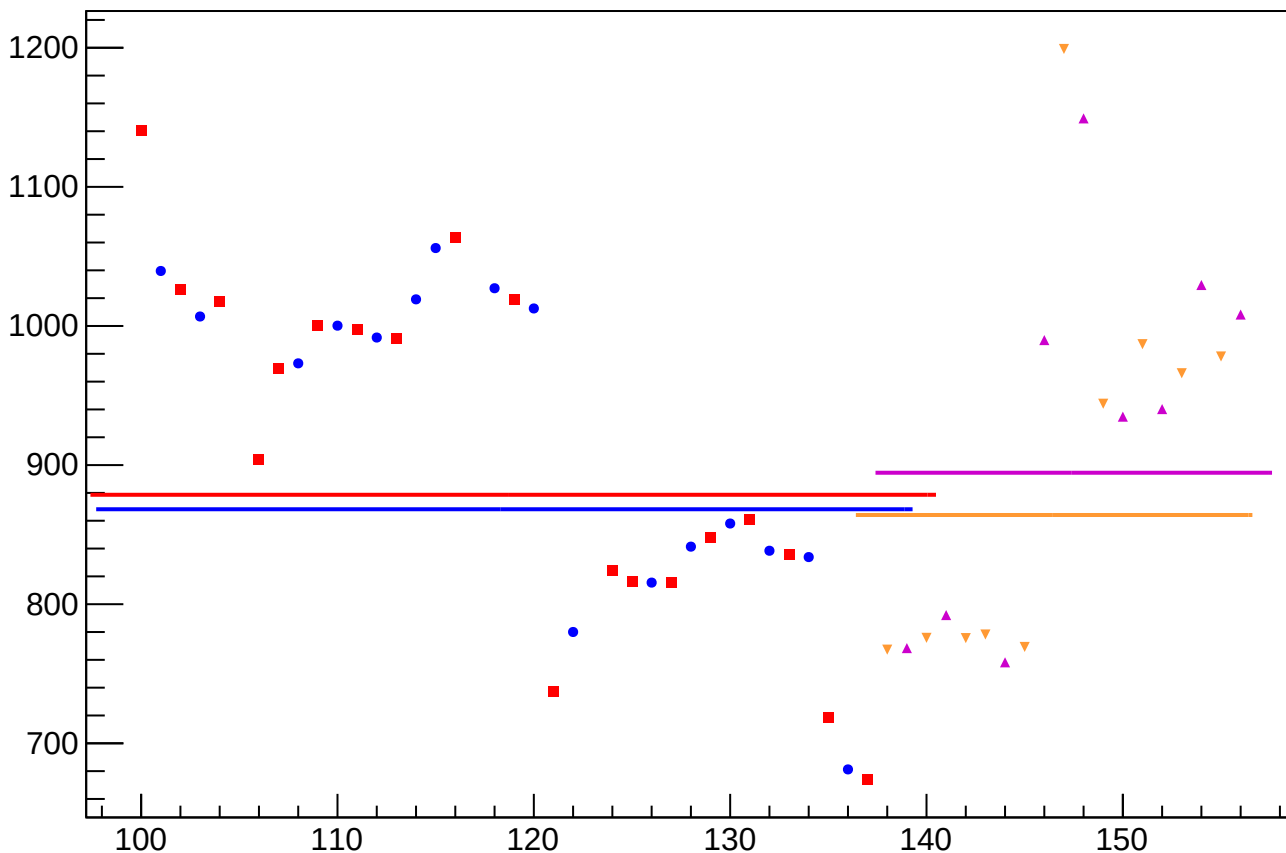
Right: 0.329 $\pm$ 0.230 χ^2/NDF : 37.4/34

In: 0.166 $\pm$ 0.229 χ^2/NDF : 23.2/24

Out: 0.106 $\pm$ 0.224 χ^2/NDF : 32.2/28

All: 0.135 $\pm$ 0.160 χ^2/NDF : 55.5/53

diff_bpm_4aY_4acY_dd_rms vs Slug, Sign Corrected



Right In: 868.253 $\pm$ 0.230 χ^2/NDF : 302409.6/15

Left Out: 864.129 $\pm$ 0.220 χ^2/NDF :310487.4/9

Right Out: 878.658 $\pm$ 0.229 χ^2/NDF : 272530.7/18

Left In: 894.503 $\pm$ 0.228 χ^2/NDF :290719.8/8

Left: 878.782 $\pm$ 0.159 χ^2/NDF : 610371.8/18

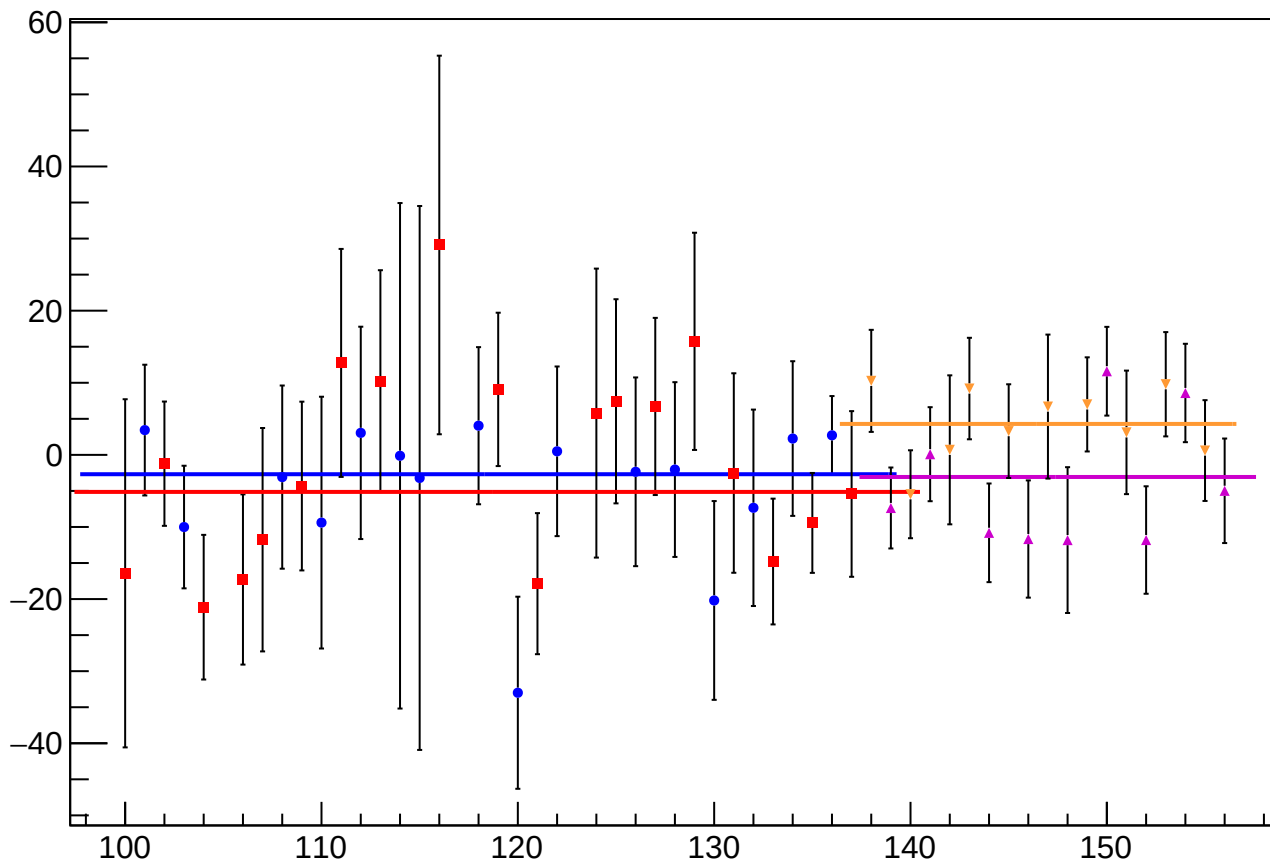
Right: 873.496 $\pm$ 0.162 χ^2/NDF : 575967.6/34

In: 881.504 $\pm$ 0.162 χ^2/NDF :599678.6/24

Out: 871.126 $\pm$ 0.159 χ^2/NDF :585111.3/28

All: 876.201 $\pm$ 0.113 χ^2/NDF : 1186882.1/53

diff_bpm_4aY_4eY_avg_mean vs Slug, Sign Corrected



Right In: -2.683 ± 2.788 χ^2/NDF : 10.1/15

Left Out: 4.292 ± 2.314 χ^2/NDF : 5.0/9

Right Out: -5.136 ± 2.692 χ^2/NDF : 17.3/18

Left In: -3.065 ± 2.316 χ^2/NDF : 14.0/8

Left: 0.617 ± 1.637 χ^2/NDF : 24.1/18

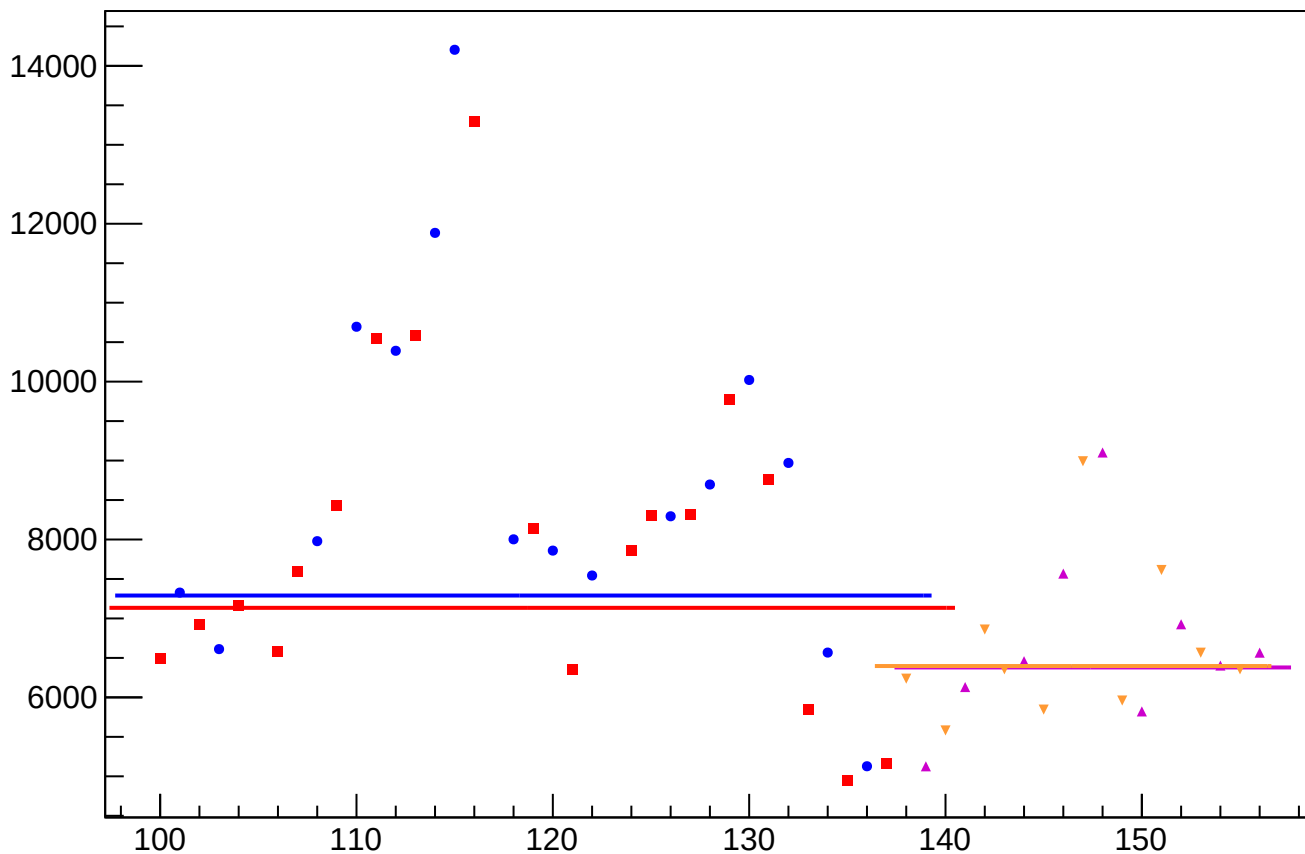
Right: -3.953 ± 1.937 χ^2/NDF : 27.7/34

In: -2.909 ± 1.782 χ^2/NDF : 24.1/24

Out: 0.286 ± 1.755 χ^2/NDF : 29.3/28

All: -1.287 ± 1.250 χ^2/NDF : 55.0/53

diff_bpm_4aY_4eY_avg_rms vs Slug, Sign Corrected



Right In: 7290.246+/-1.972 χ^2/NDF : 770518.2/15

Left Out: 6397.129+/-1.636 χ^2/NDF : 240723.4/9

Right Out: 7134.411+/-1.903 χ^2/NDF : 792788.1/18

Left In: 6379.096+/-1.638 χ^2/NDF : 319024.3/8

Left: 6388.121+/-1.157 χ^2/NDF : 559808.4/18

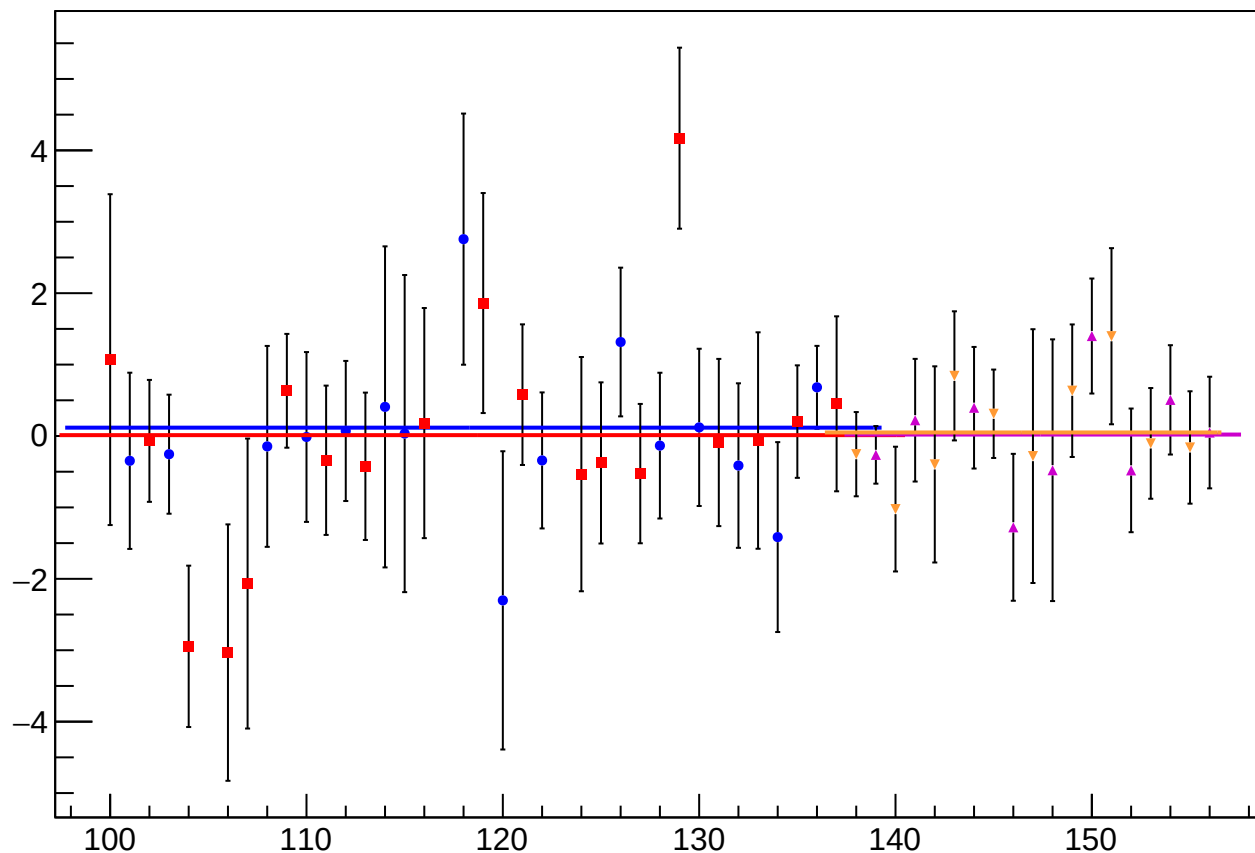
Right: 7209.592+/-1.369 χ^2/NDF : 1566539.8/34

In: 6751.094+/-1.260 χ^2/NDF : 1215925.3/24

Out: 6710.405+/-1.241 χ^2/NDF : 1119791.9/28

All: 6730.441+/-0.884 χ^2/NDF : 2336246.7/53

diff_bpm_4aY_4eY_dd_mean vs Slug, Sign Corrected



Right In: 0.117 $\pm$ 0.273 χ^2 /NDF: 8.1/15

Left Out: 0.050 $\pm$ 0.268 χ^2 /NDF: 4.6/9

Right Out: 0.012 $\pm$ 0.263 χ^2 /NDF: 25.2/18

Left In: 0.020 $\pm$ 0.247 χ^2 /NDF: 6.1/8

Left: 0.034 $\pm$ 0.182 χ^2 /NDF: 10.7/18

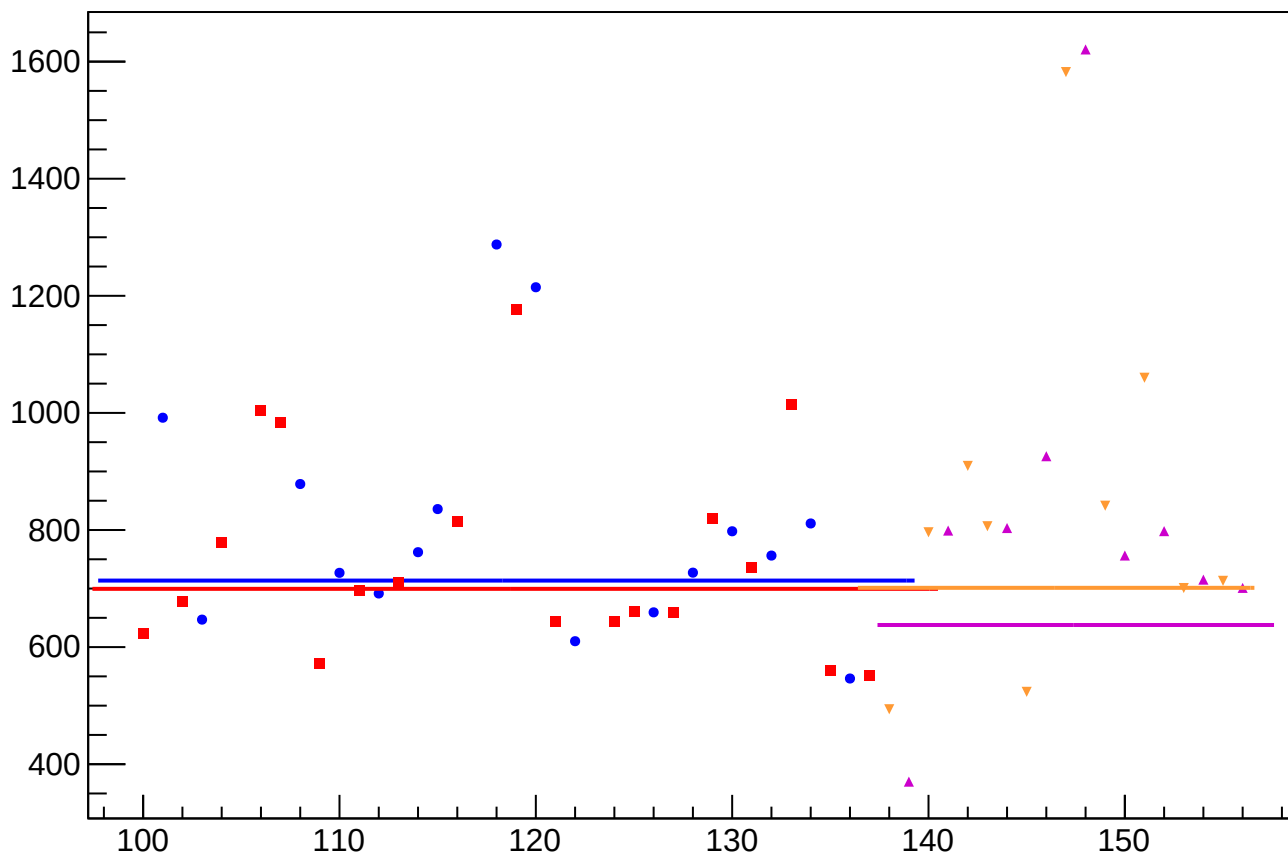
Right: 0.063 $\pm$ 0.190 χ^2 /NDF: 33.4/34

In: 0.064 $\pm$ 0.183 χ^2 /NDF: 14.3/24

Out: 0.031 $\pm$ 0.188 χ^2 /NDF: 29.7/28

All: 0.048 $\pm$ 0.131 χ^2 /NDF: 44.0/53

diff_bpm_4aY_4eY_dd_rms vs Slug, Sign Corrected



Right In: 713.627 $\pm$ 0.193 χ^2 /NDF: 699303.9/15

Left Out: 701.249 $\pm$ 0.189 χ^2 /NDF: 1215569.9/9

Right Out: 699.502 $\pm$ 0.186 χ^2 /NDF: 575759.9/18

Left In: 637.762 $\pm$ 0.175 χ^2 /NDF: 1904780.7/8

Left: 667.008 $\pm$ 0.128 χ^2 /NDF: 3181052.2/18

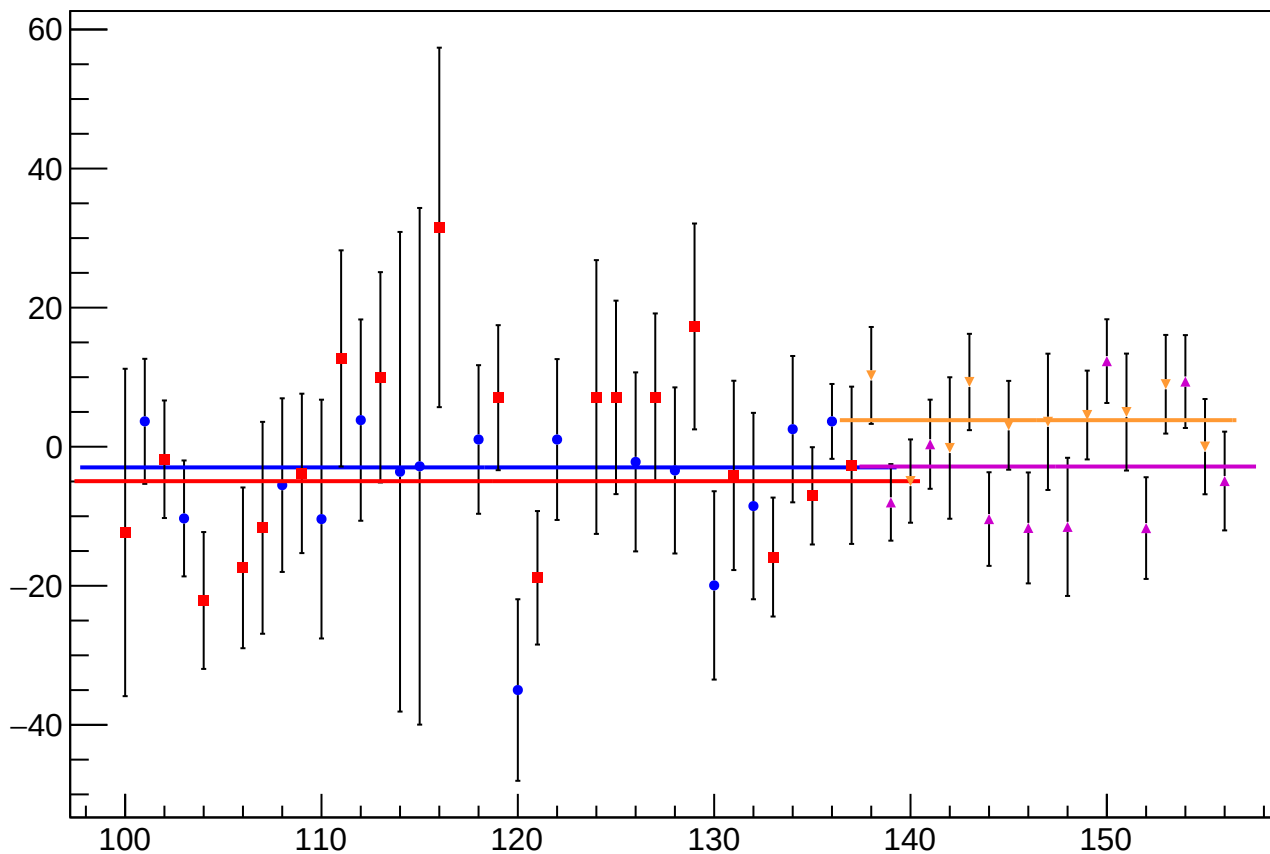
Right: 706.303 $\pm$ 0.134 χ^2 /NDF: 1277836.8/34

In: 671.940 $\pm$ 0.130 χ^2 /NDF: 2688852.9/24

Out: 700.361 $\pm$ 0.133 χ^2 /NDF: 1791373.1/28

All: 685.821 $\pm$ 0.093 χ^2 /NDF: 4503696.4/53

diff_bpm_4aY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -2.974 ± 2.746 χ^2/NDF : 11.6/15

Left Out: 3.816 ± 2.272 χ^2/NDF : 4.7/9

Right Out: -4.955 ± 2.653 χ^2/NDF : 18.5/18

Left In: -2.850 ± 2.271 χ^2/NDF : 15.6/8

Left: 0.482 ± 1.606 χ^2/NDF : 24.6/18

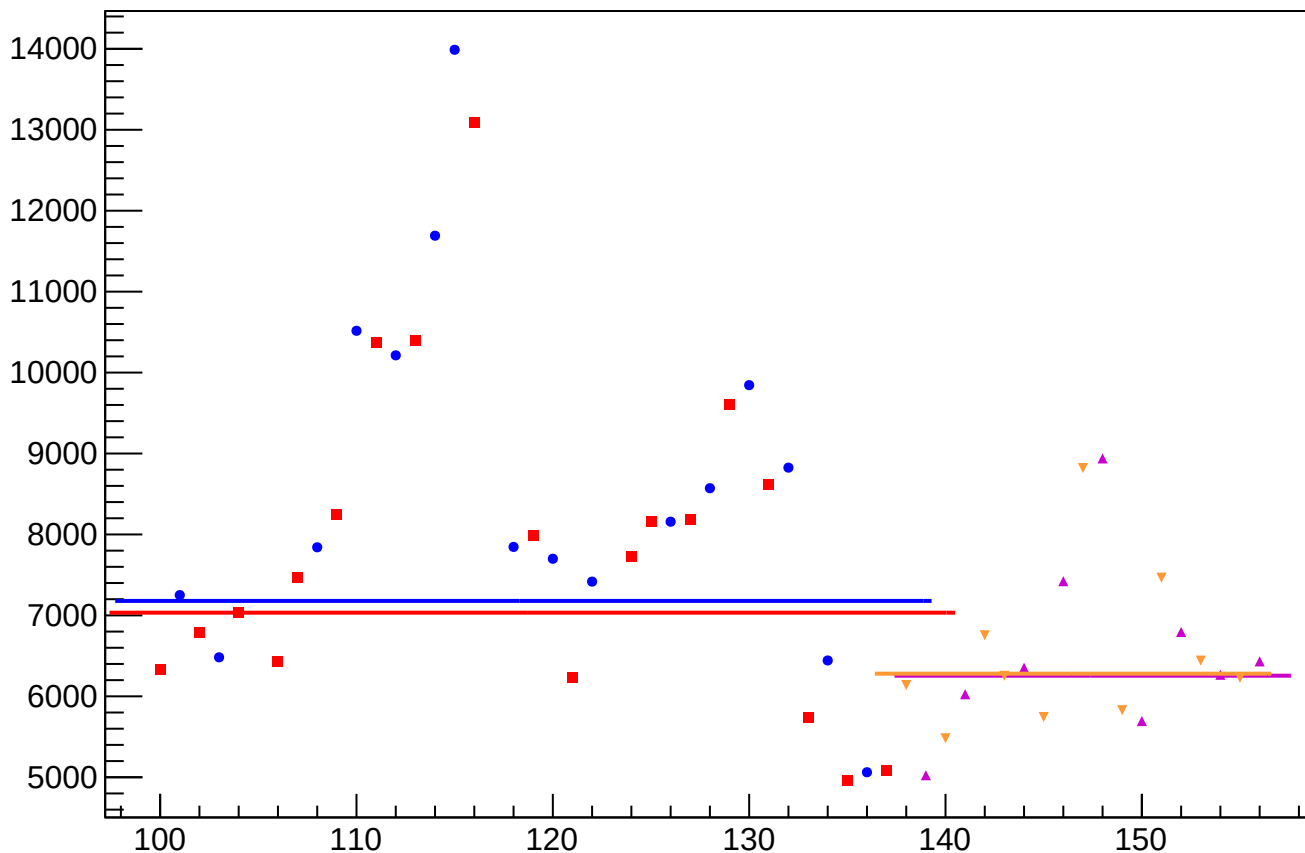
Right: -3.999 ± 1.908 χ^2/NDF : 30.3/34

In: -2.900 ± 1.750 χ^2/NDF : 27.2/24

Out: 0.106 ± 1.726 χ^2/NDF : 29.4/28

All: -1.376 ± 1.229 χ^2/NDF : 58.1/53

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: 6279.764 $\pm$ 1.606 χ^2 /NDF: 240139.1/9

Right Out: 7033.538 $\pm$ 1.876 χ^2 /NDF: 766389.2/18

Left In: 6254.824 $\pm$ 1.606 χ^2 /NDF: 321246.4/8

Left: 6267.292 $\pm$ 1.136 χ^2 /NDF: 561506.0/18

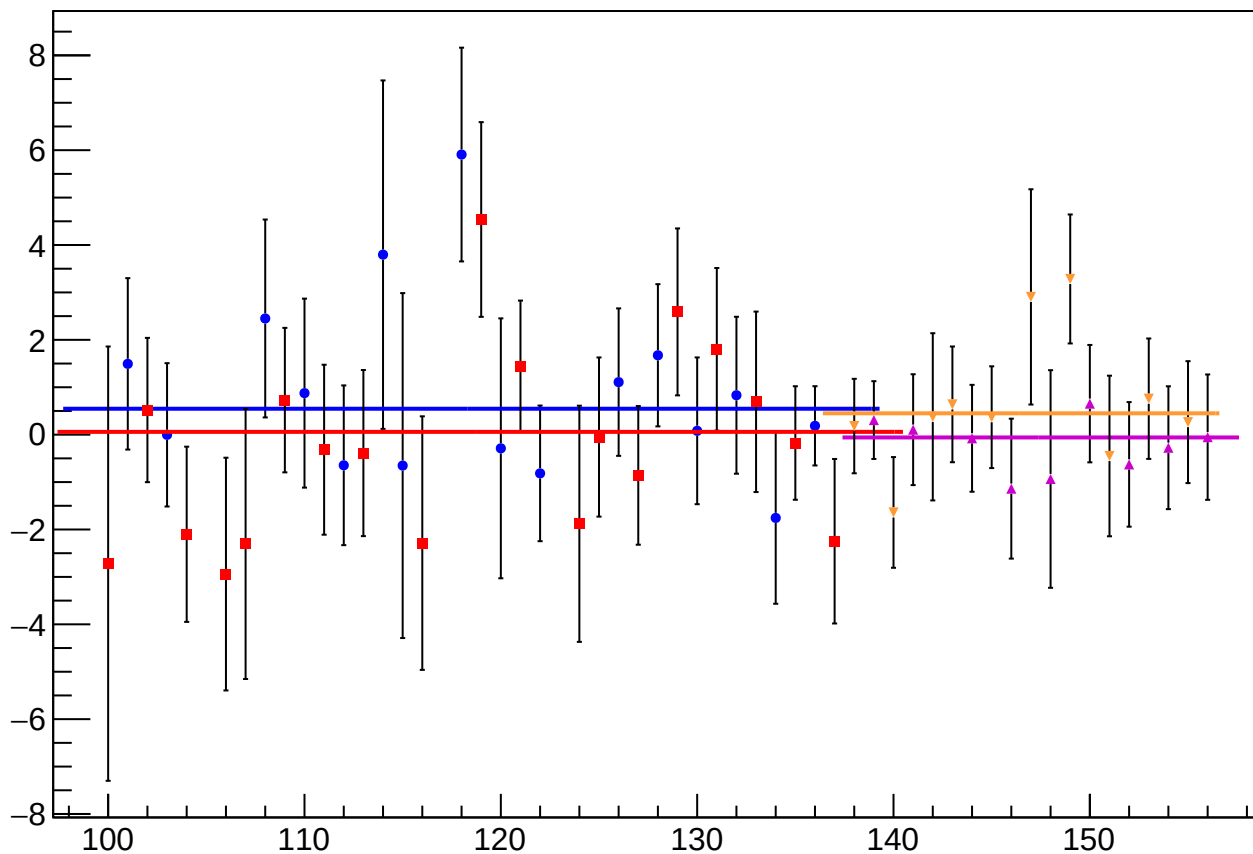
Right: 7103.732 $\pm$ 1.349 χ^2 /NDF: 1531224.9/34

In: 6630.231 $\pm$ 1.238 χ^2 /NDF: 1217664.2/24

Out: 6598.615 $\pm$ 1.220 χ^2 /NDF: 1099670.2/28

All: 6614.199 $\pm$ 0.869 χ^2 /NDF: 2317665.3/53

diff_bpm_4aY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.547 ± 0.411 χ^2/NDF : 11.9/15

Left Out: 0.450 ± 0.411 χ^2/NDF : 9.2/9

Right Out: 0.059 ± 0.409 χ^2/NDF : 16.9/18

Left In: -0.059 ± 0.406 χ^2/NDF : 1.4/8

Left: 0.193 ± 0.289 χ^2/NDF : 11.4/18

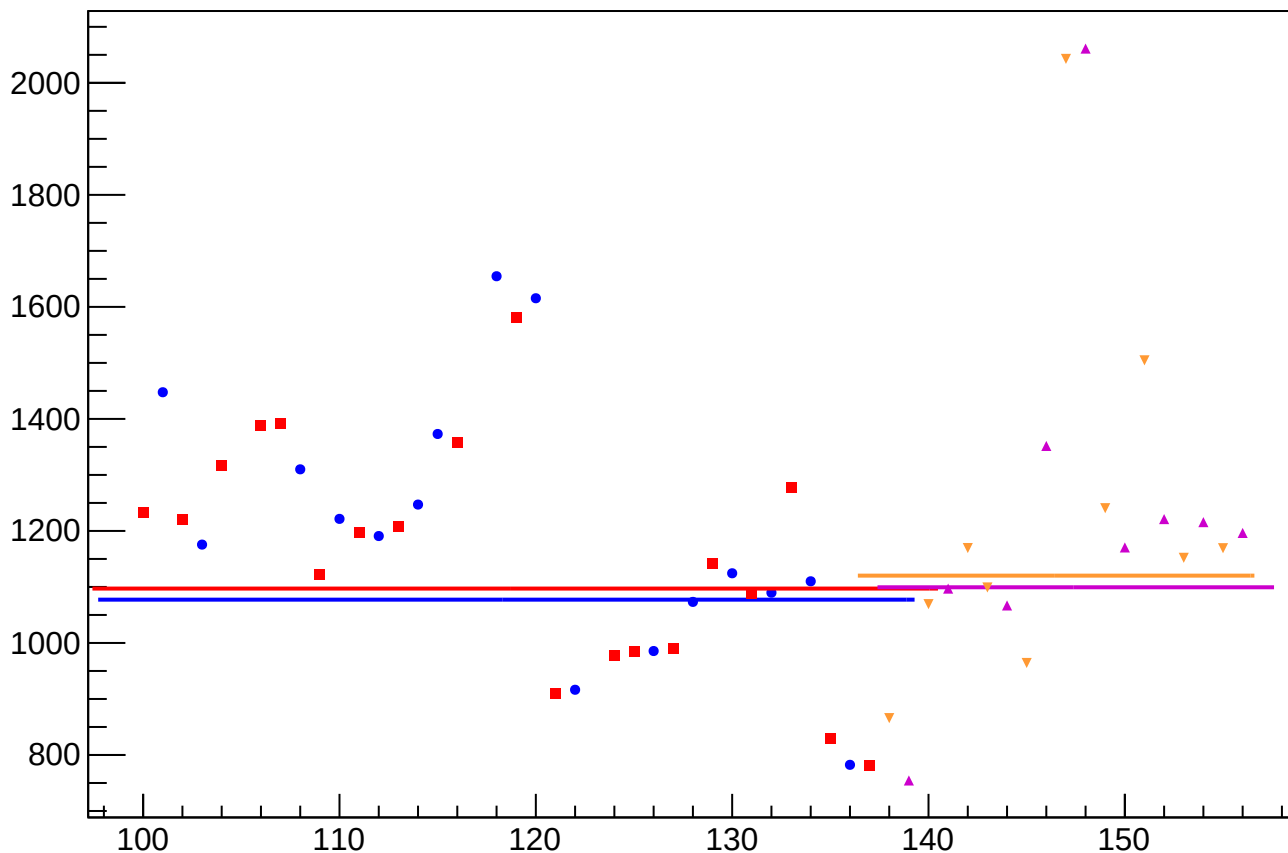
Right: 0.302 ± 0.290 χ^2/NDF : 29.5/34

In: 0.241 ± 0.289 χ^2/NDF : 14.5/24

Out: 0.254 ± 0.290 χ^2/NDF : 26.5/28

All: 0.247 ± 0.205 χ^2/NDF : 41.0/53

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: 1120.198 $\pm$ 0.291 χ^2/NDF : 631728.3/9

Right Out: 1097.108 $\pm$ 0.289 χ^2/NDF : 484370.7/18

Left In: 1099.406 $\pm$ 0.287 χ^2/NDF : 815871.4/8

Left: 1109.677 $\pm$ 0.204 χ^2/NDF : 1450185.5/18

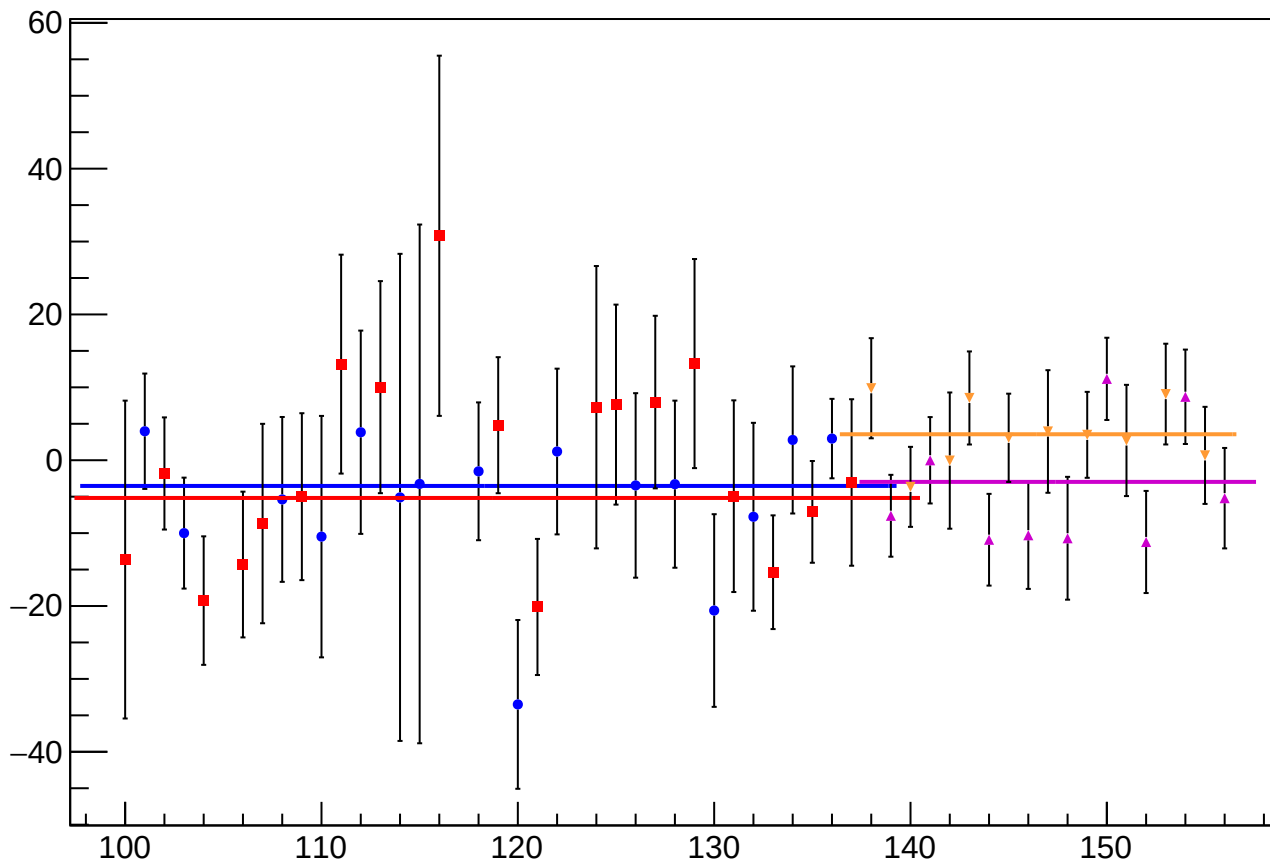
Right: 1087.256 $\pm$ 0.205 χ^2/NDF : 1133226.7/34

In: 1088.477 $\pm$ 0.204 χ^2/NDF : 1465318.0/24

Out: 1108.583 $\pm$ 0.205 χ^2/NDF : 1119269.4/28

All: 1098.494 $\pm$ 0.145 χ^2/NDF : 2589412.6/53

diff_bpm_4eY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -3.527 ± 2.608 χ^2/NDF : 12.6/15

Left Out: 3.563 ± 2.126 χ^2/NDF : 4.2/9

Right Out: -5.176 ± 2.508 χ^2/NDF : 18.2/18

Left In: -2.971 ± 2.158 χ^2/NDF : 15.4/8

Left: 0.345 ± 1.515 χ^2/NDF : 24.2/18

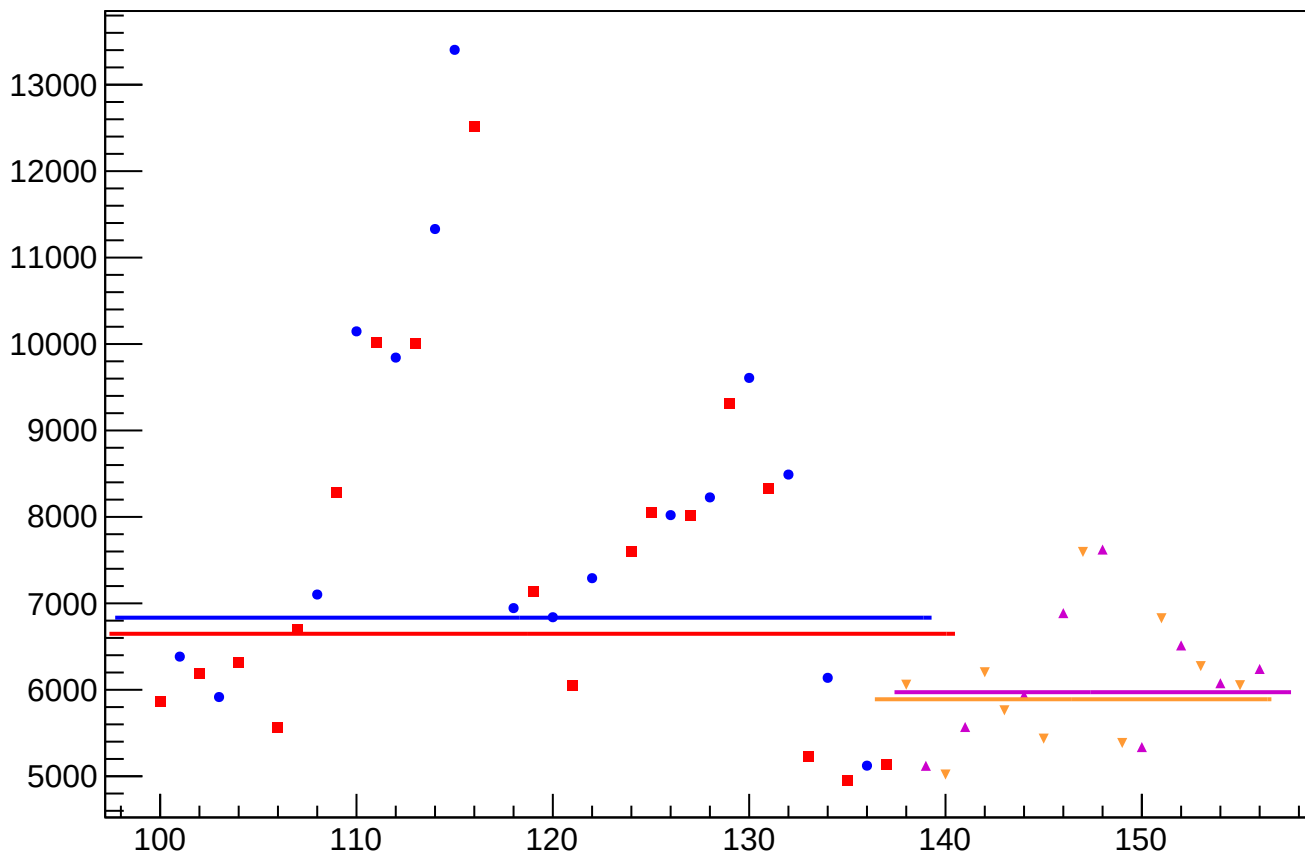
Right: -4.384 ± 1.808 χ^2/NDF : 31.0/34

In: -3.197 ± 1.663 χ^2/NDF : 28.0/24

Out: -0.091 ± 1.622 χ^2/NDF : 29.4/28

All: -1.605 ± 1.161 χ^2/NDF : 59.2/53

diff_bpm_4eY_4ecY_avg_rms vs Slug, Sign Corrected



Right In: 6834.346 $\pm$ 1.844 χ^2 /NDF: 692722.6/15

Left Out: 5890.450 $\pm$ 1.503 χ^2 /NDF: 200252.8/9

Right Out: 6647.996 $\pm$ 1.773 χ^2 /NDF: 785102.6/18

Left In: 5972.296 $\pm$ 1.526 χ^2 /NDF: 203710.3/8

Left: 5930.761 $\pm$ 1.071 χ^2 /NDF: 405422.8/18

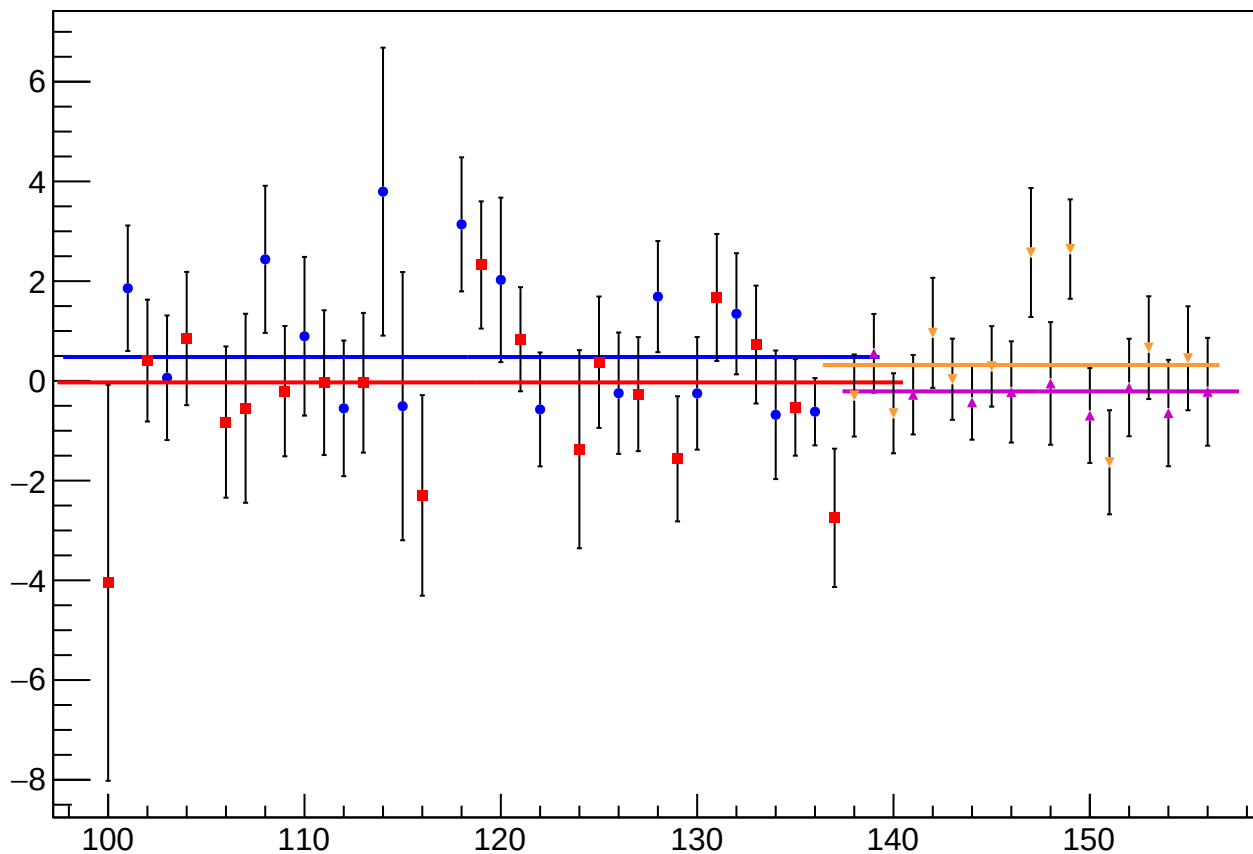
Right: 6737.523 $\pm$ 1.278 χ^2 /NDF: 1483130.1/34

In: 6322.645 $\pm$ 1.176 χ^2 /NDF: 1026124.8/24

Out: 6207.218 $\pm$ 1.147 χ^2 /NDF: 1091529.6/28

All: 6263.493 $\pm$ 0.821 χ^2 /NDF: 2122593.7/53

diff_bpm_4eY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.479 ± 0.311 χ^2/NDF : 16.7/15

Left Out: 0.319 ± 0.298 χ^2/NDF : 14.6/9

Right Out: -0.030 ± 0.309 χ^2/NDF : 15.7/18

Left In: -0.211 ± 0.309 χ^2/NDF : 1.5/8

Left: 0.064 ± 0.214 χ^2/NDF : 17.6/18

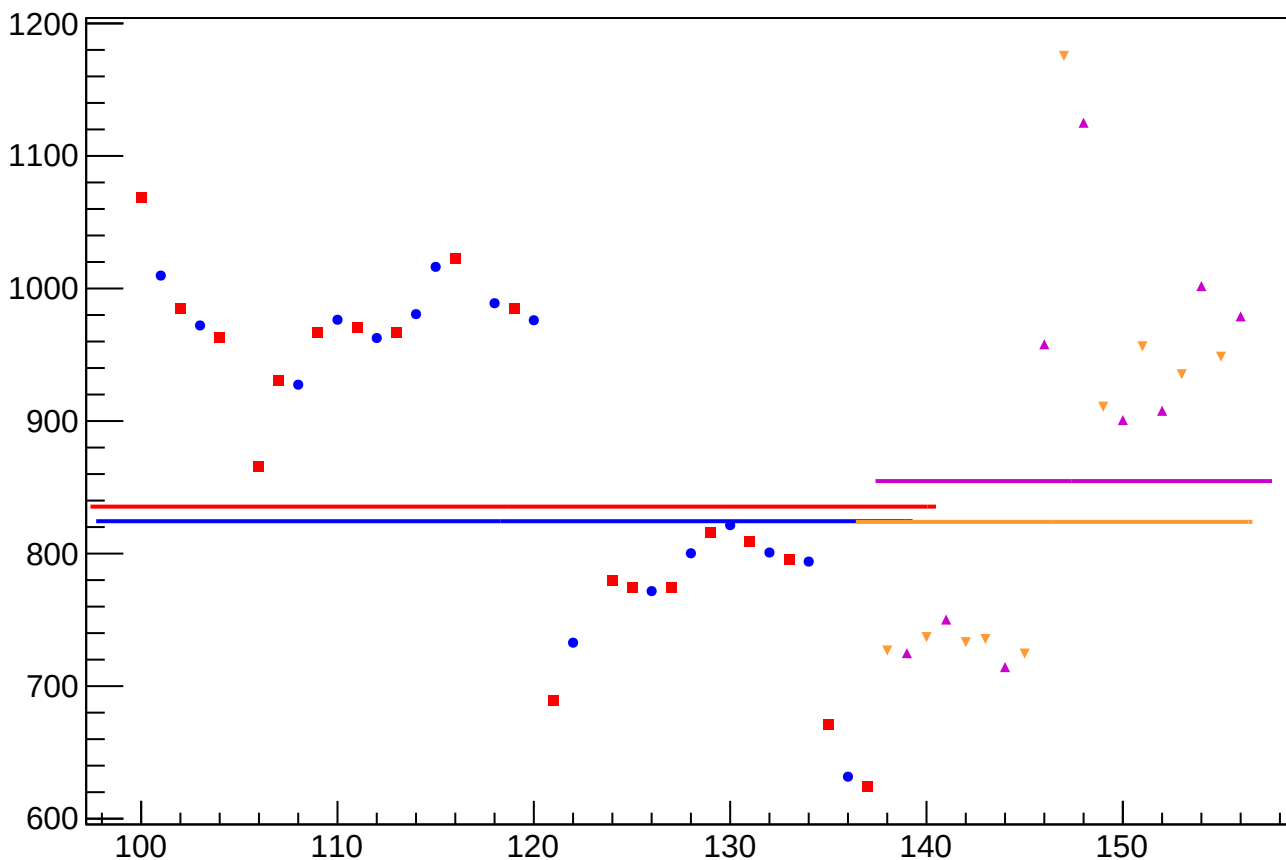
Right: 0.222 ± 0.219 χ^2/NDF : 33.8/34

In: 0.132 ± 0.219 χ^2/NDF : 20.7/24

Out: 0.150 ± 0.214 χ^2/NDF : 31.0/28

All: 0.141 ± 0.153 χ^2/NDF : 51.6/53

diff_bpm_4eY_4ecY_dd_rms vs Slug, Sign Corrected



Right In: 824.431 $\pm$ 0.220 χ^2 /NDF: 365461.7/15

Left Out: 823.945 $\pm$ 0.211 χ^2 /NDF:365900.4/9

Right Out: 835.437 $\pm$ 0.218 χ^2 /NDF: 319302.1/18

Left In: 854.696 $\pm$ 0.219 χ^2 /NDF:350513.3/8

Left: 838.746 $\pm$ 0.152 χ^2 /NDF: 726680.0/18

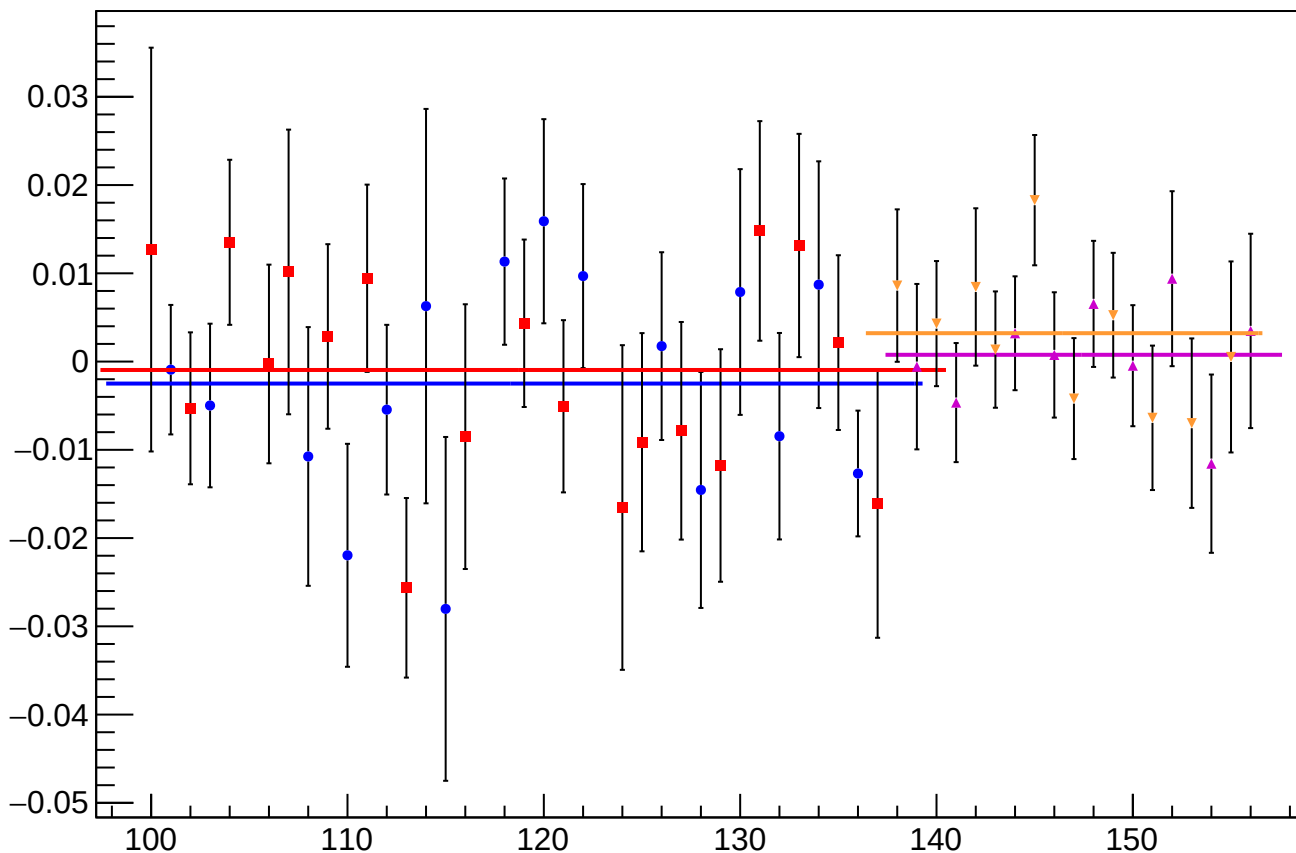
Right: 829.974 $\pm$ 0.155 χ^2 /NDF: 686027.0/34

In: 839.646 $\pm$ 0.155 χ^2 /NDF:725509.4/24

Out: 829.487 $\pm$ 0.152 χ^2 /NDF:686638.9/28

All: 834.451 $\pm$ 0.108 χ^2 /NDF: 1414345.4/53

diff_dispe_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.002 $\pm$ 0.003 χ^2/NDF : 15.3/15

Left Out: 0.003 $\pm$ 0.002 χ^2/NDF : 8.8/9

Right Out: -0.001 $\pm$ 0.003 χ^2/NDF : 17.3/18

Left In: 0.001 $\pm$ 0.003 χ^2/NDF : 3.8/8

Left: 0.002 $\pm$ 0.002 χ^2/NDF : 13.1/18

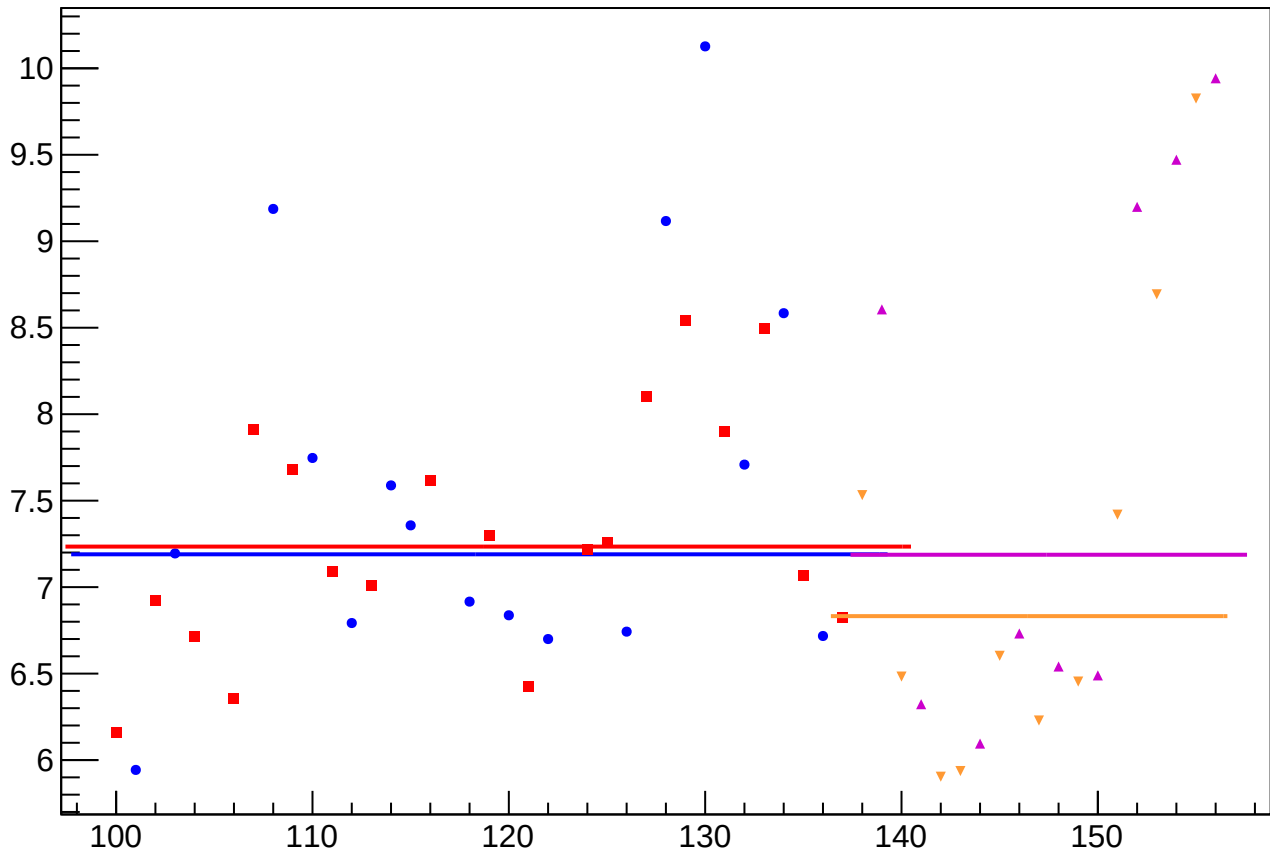
Right: -0.002 $\pm$ 0.002 χ^2/NDF : 32.8/34

In: -0.001 $\pm$ 0.002 χ^2/NDF : 19.8/24

Out: 0.001 $\pm$ 0.002 χ^2/NDF : 27.4/28

All: 0.000 $\pm$ 0.001 χ^2/NDF : 47.9/53

diff_dispE_bpm12X_rms vs Slug, Sign Corrected



Right In: 7.190 $\pm$ 0.002 χ^2 /NDF: 277639.9/15

Left Out: 6.832 $\pm$ 0.002 χ^2 /NDF:338141.8/9

Right Out: 7.234 $\pm$ 0.002 χ^2 /NDF: 106266.0/18

Left In: 7.187 $\pm$ 0.002 χ^2 /NDF:491061.9/8

Left: 7.000 $\pm$ 0.001 χ^2 /NDF: 848627.3/18

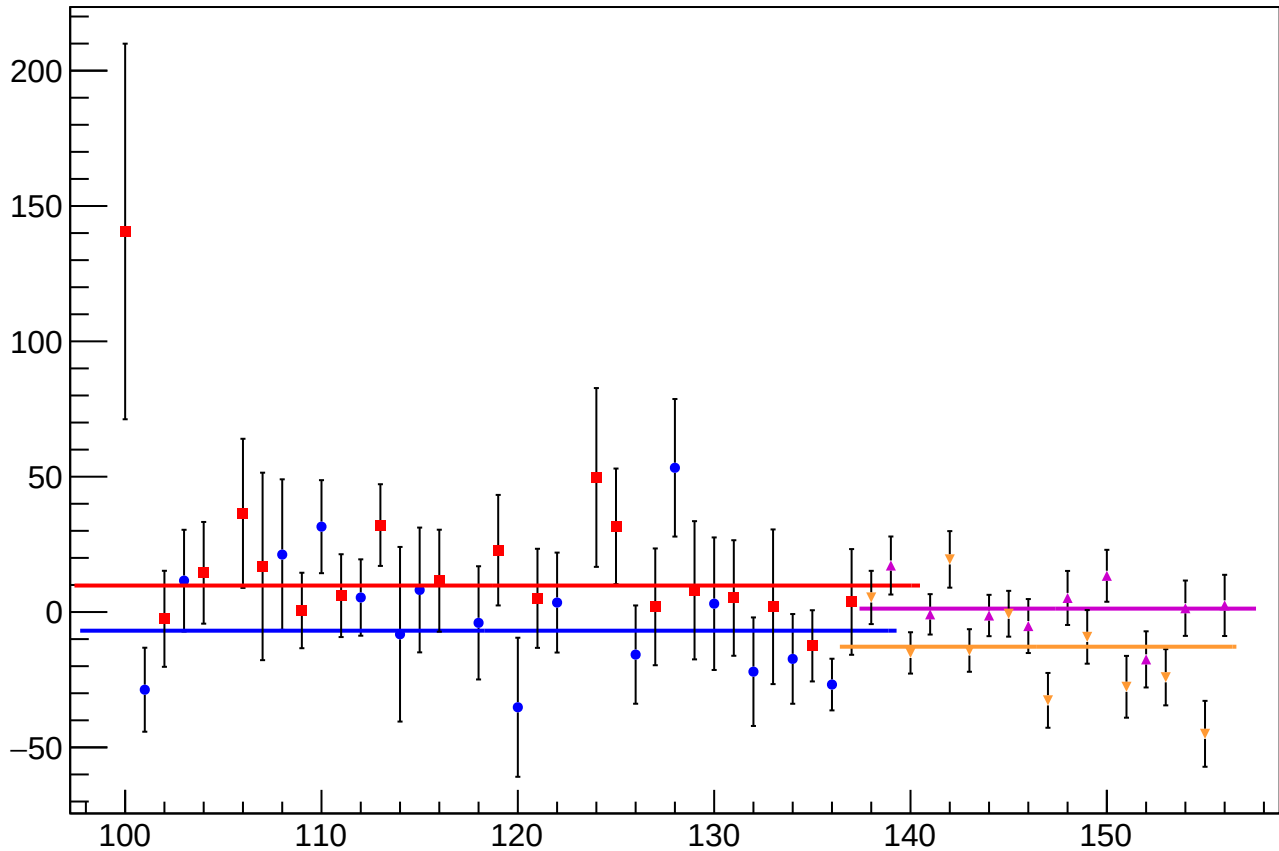
Right: 7.213 $\pm$ 0.001 χ^2 /NDF: 384182.4/34

In: 7.188 $\pm$ 0.001 χ^2 /NDF:768702.7/24

Out: 7.019 $\pm$ 0.001 χ^2 /NDF:468891.0/28

All: 7.101 $\pm$ 0.001 χ^2 /NDF: 1245993.0/53

diff_targ_positionX_mean vs Slug, Sign Corrected



Right In: -6.891 $\pm$ 4.488 χ^2/NDF : 23.0/15

Left Out: -12.808 $\pm$ 3.009 χ^2/NDF : 29.0/9

Right Out: 9.790 $\pm$ 4.517 χ^2/NDF : 14.0/18

Left In: 1.262 $\pm$ 3.140 χ^2/NDF : 7.8/8

Left: -6.072 $\pm$ 2.173 χ^2/NDF : 47.3/18

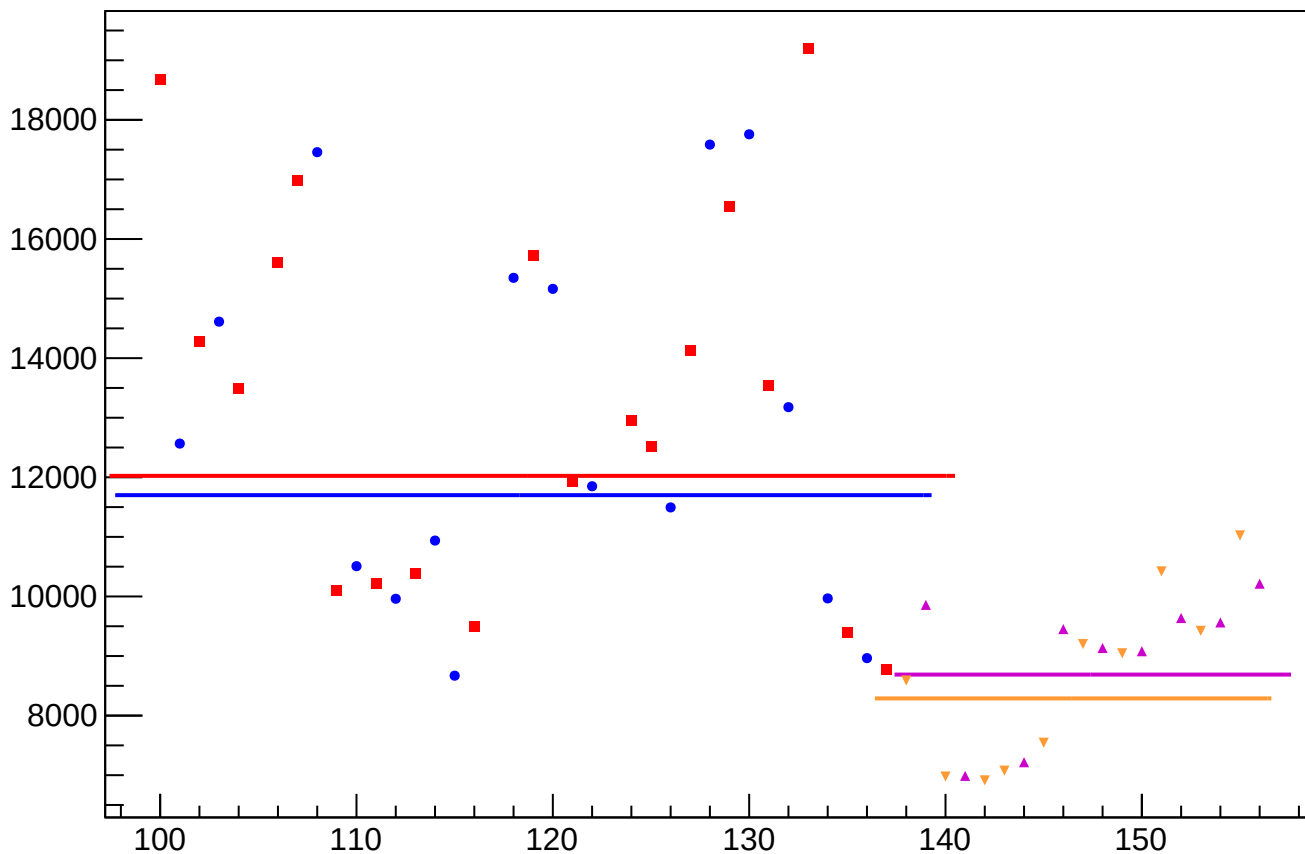
Right: 1.396 $\pm$ 3.184 χ^2/NDF : 43.9/34

In: -1.417 $\pm$ 2.573 χ^2/NDF : 33.1/24

Out: -5.862 $\pm$ 2.504 χ^2/NDF : 60.3/28

All: -3.699 $\pm$ 1.795 χ^2/NDF : 94.9/53

diff_targ_positionX_rms vs Slug, Sign Corrected



Right In: 11700.622 $\pm$ 3.174 χ^2/NDF : 740185.3/15

Left Out: 8288.527 $\pm$ 2.128 χ^2/NDF :381146.0/9

Right Out: 12024.262 $\pm$ 3.194 χ^2/NDF : 684788.9/18

Left In: 8688.583 $\pm$ 2.220 χ^2/NDF :288766.4/8

Left: 8480.069 $\pm$ 1.536 χ^2/NDF : 686836.5/18

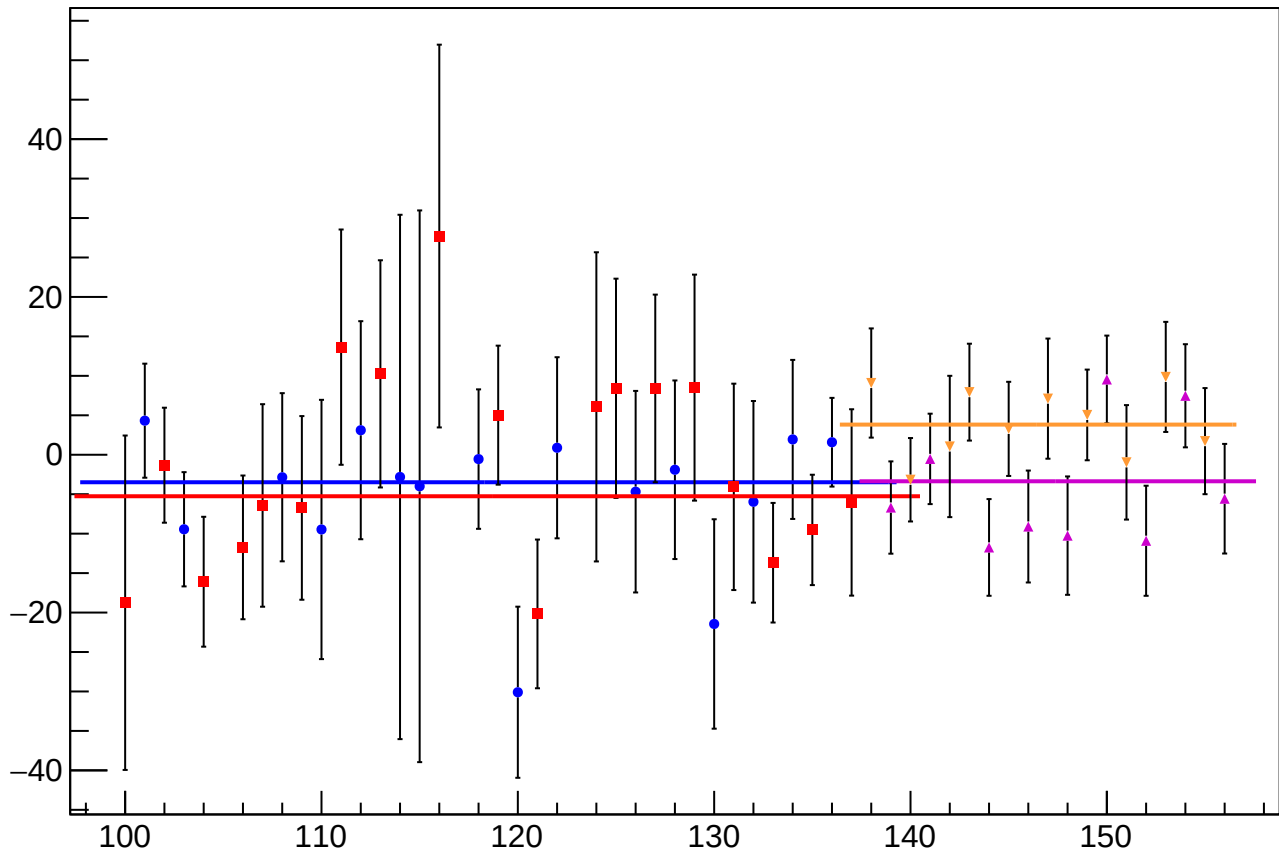
Right: 11861.399 $\pm$ 2.251 χ^2/NDF : 1430140.0/34

In: 9678.216 $\pm$ 1.819 χ^2/NDF :1633716.9/24

Out: 9436.741 $\pm$ 1.771 χ^2/NDF :2013306.0/28

All: 9554.231 $\pm$ 1.269 χ^2/NDF : 3656069.6/53

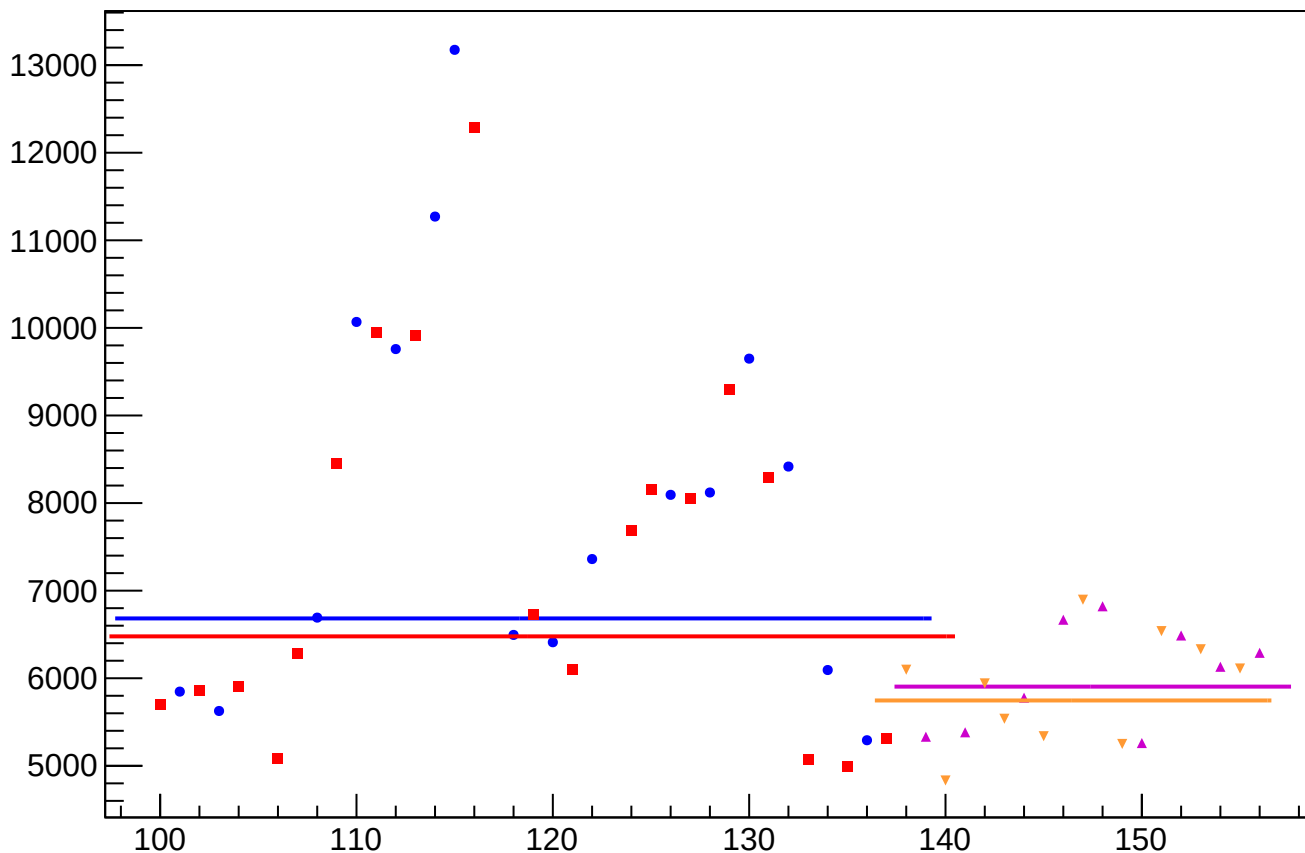
diff_targ_positionY_mean vs Slug, Sign Corrected



Right In: -3.485 ± 2.550 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: 3.822 ± 2.072 $\chi^2/\text{NDF}: 4.4/9$
 Right Out: -5.259 ± 2.446 $\chi^2/\text{NDF}: 16.6/18$
 Left In: -3.362 ± 2.127 $\chi^2/\text{NDF}: 13.3/8$

Left: 0.324 ± 1.484 $\chi^2/\text{NDF}: 23.6/18$
 Right: -4.409 ± 1.765 $\chi^2/\text{NDF}: 28.3/34$
 In: -3.413 ± 1.633 $\chi^2/\text{NDF}: 24.8/24$
 Out: 0.029 ± 1.581 $\chi^2/\text{NDF}: 29.0/28$
 All: -1.636 ± 1.136 $\chi^2/\text{NDF}: 56.2/53$

diff_targ_positionY_rms vs Slug, Sign Corrected



Right In: 6682.988+/-1.803 χ^2/NDF : 692200.2/15

Left Out: 5746.371+/-1.465 χ^2/NDF : 181808.5/9

Right Out: 6478.126+/-1.730 χ^2/NDF : 839226.8/18

Left In: 5904.418+/-1.504 χ^2/NDF : 139053.1/8

Left: 5823.313+/-1.049 χ^2/NDF : 326527.8/18

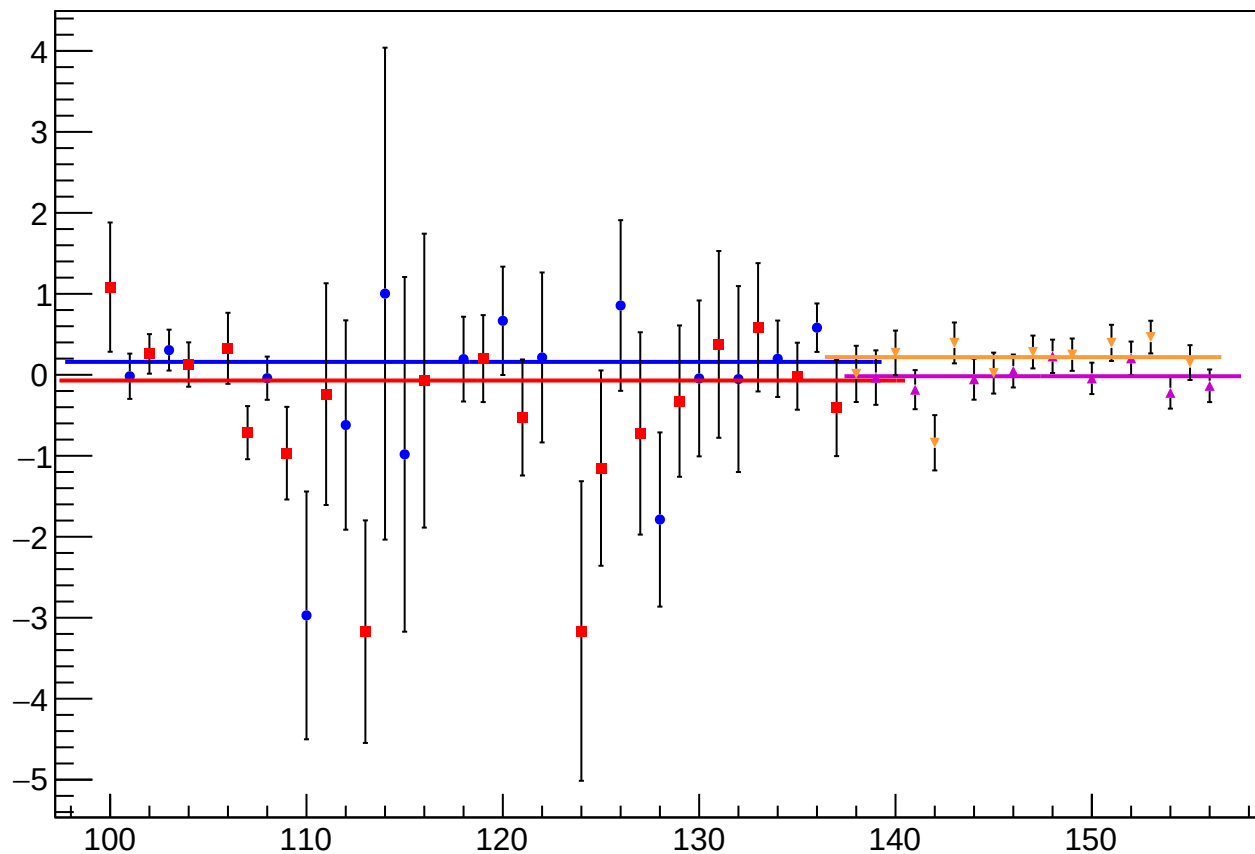
Right: 6576.323+/-1.248 χ^2/NDF : 1538150.0/34

In: 6223.930+/-1.155 χ^2/NDF : 941214.3/24

Out: 6052.003+/-1.118 χ^2/NDF : 1125243.3/28

All: 6135.168+/-0.803 χ^2/NDF : 2077898.3/53

diff_targ_thetaX_mean vs Slug, Sign Corrected



Right In: 0.160 $\pm$ 0.120 χ^2/NDF : 12.6/15

Left Out: 0.219 $\pm$ 0.075 χ^2/NDF :13.4/9

Right Out: -0.070 $\pm$ 0.120 χ^2/NDF : 22.5/18

Left In: -0.018 $\pm$ 0.073 χ^2/NDF :4.6/8

Left: 0.096 $\pm$ 0.052 χ^2/NDF : 23.2/18

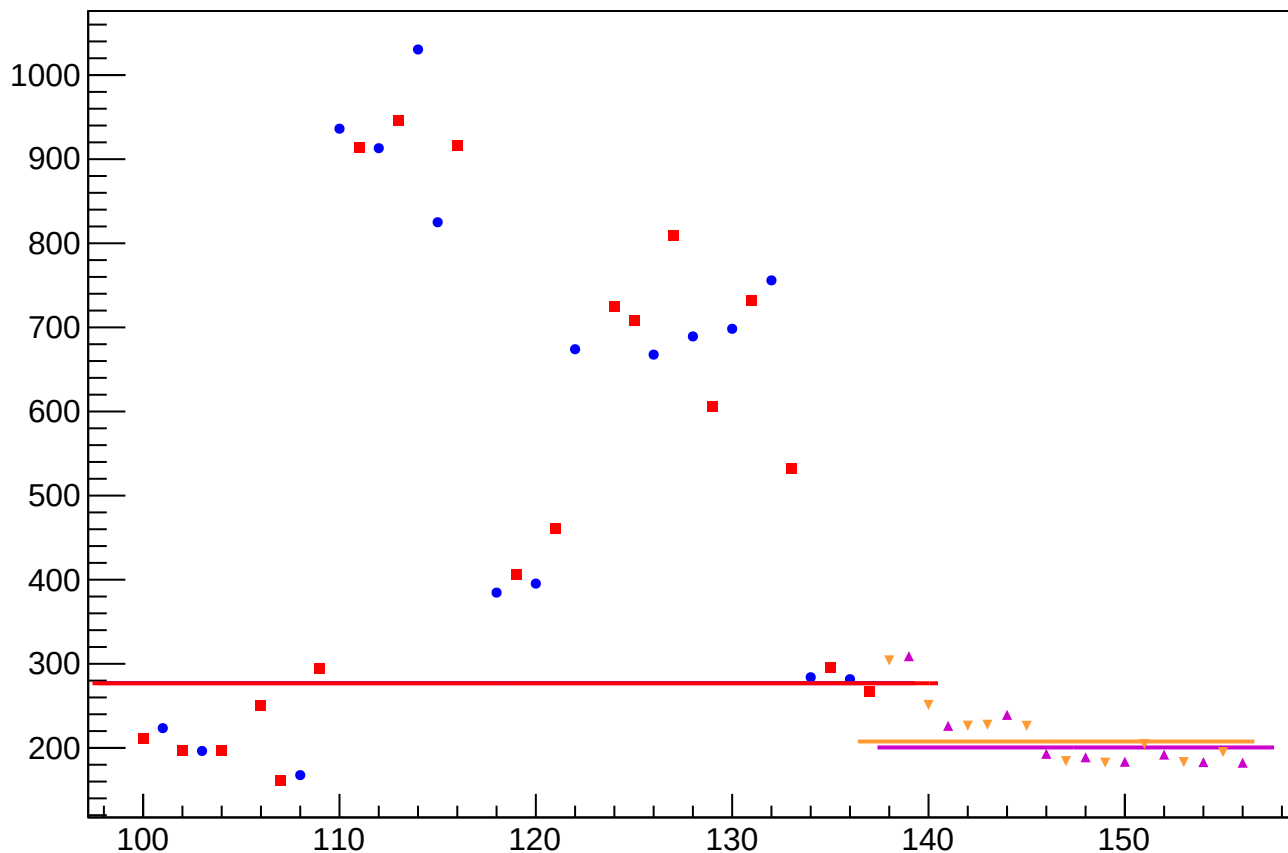
Right: 0.045 $\pm$ 0.085 χ^2/NDF : 36.9/34

In: 0.030 $\pm$ 0.062 χ^2/NDF :18.8/24

Out: 0.137 $\pm$ 0.064 χ^2/NDF :40.1/28

All: 0.082 $\pm$ 0.044 χ^2/NDF : 60.3/53

diff_targ_thetaX_rms vs Slug, Sign Corrected



Right In: 277.017 $\pm$ 0.085 χ^2 /NDF: 3450533.8/15

Left Out: 207.625 $\pm$ 0.053 χ^2 /NDF:328542.0/9

Right Out: 276.866 $\pm$ 0.085 χ^2 /NDF: 3571620.7/18

Left In: 200.533 $\pm$ 0.051 χ^2 /NDF:337560.3/8

Left: 203.953 $\pm$ 0.037 χ^2 /NDF: 675327.3/18

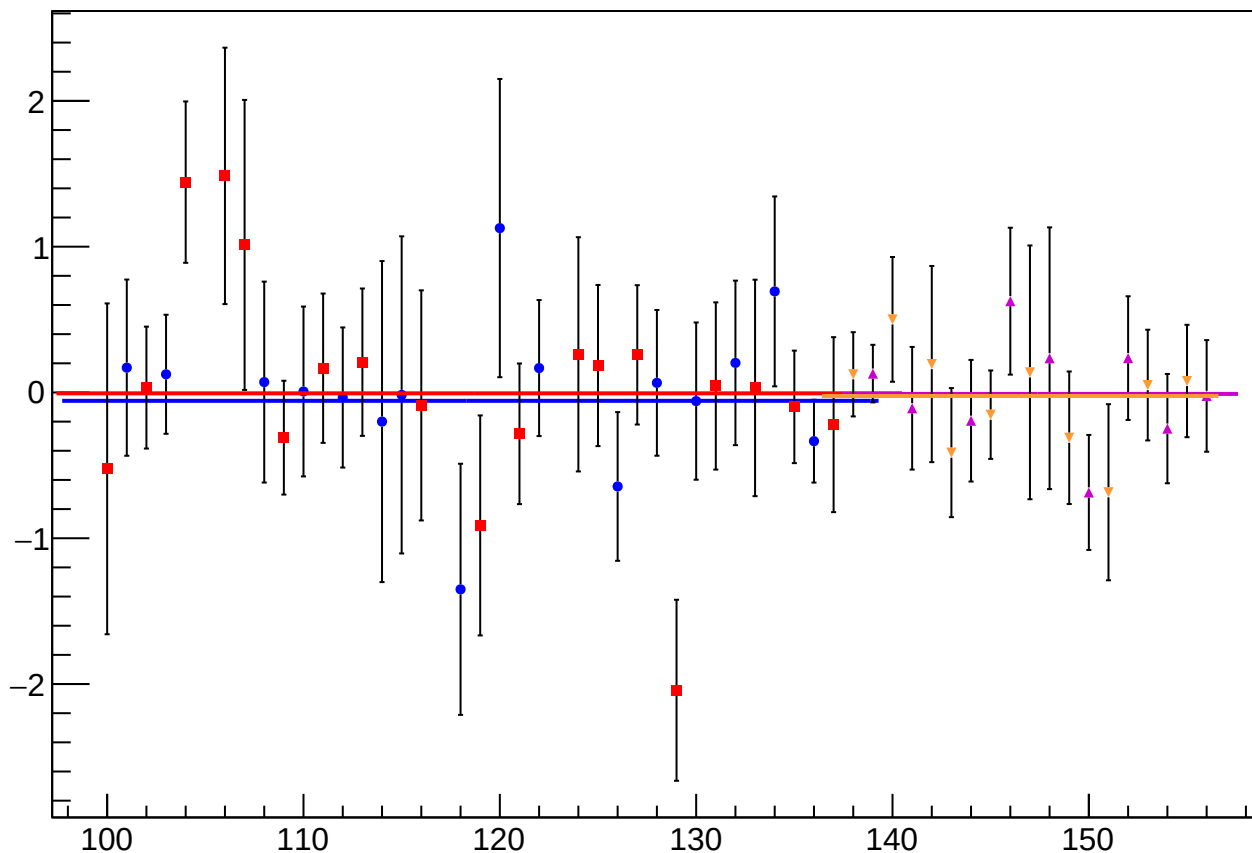
Right: 276.942 $\pm$ 0.060 χ^2 /NDF: 7022156.1/34

In: 221.094 $\pm$ 0.044 χ^2 /NDF:4386321.4/24

Out: 227.194 $\pm$ 0.045 χ^2 /NDF:4380256.5/28

All: 224.065 $\pm$ 0.031 χ^2 /NDF: 8776006.0/53

diff_targ_thetaY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.134 χ^2/NDF : 8.1/15

Left Out: -0.024 ± 0.131 χ^2/NDF : 4.6/9

Right Out: -0.006 ± 0.129 χ^2/NDF : 25.2/18

Left In: -0.010 ± 0.121 χ^2/NDF : 6.1/8

Left: -0.017 ± 0.089 χ^2/NDF : 10.7/18

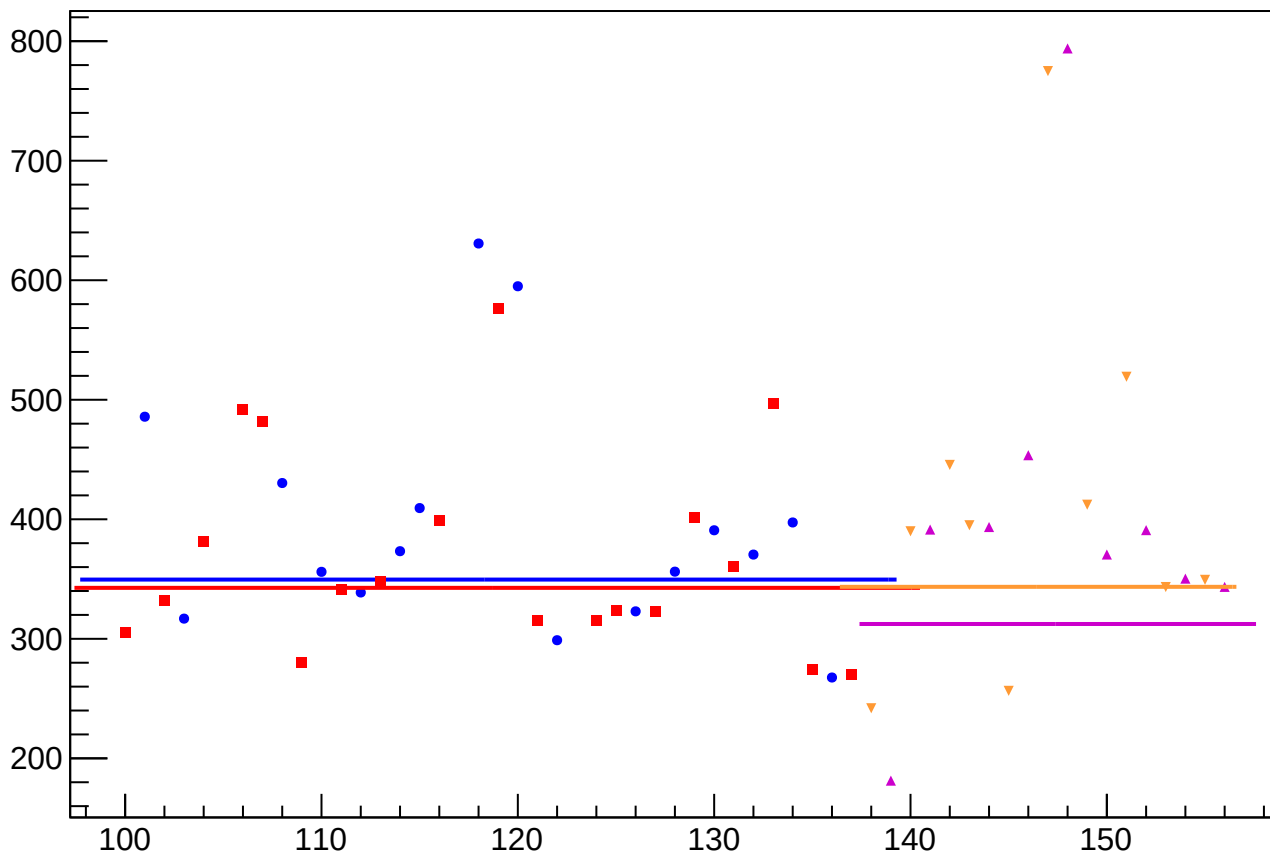
Right: -0.031 ± 0.093 χ^2/NDF : 33.4/34

In: -0.031 ± 0.090 χ^2/NDF : 14.3/24

Out: -0.015 ± 0.092 χ^2/NDF : 29.7/28

All: -0.023 ± 0.064 χ^2/NDF : 44.0/53

diff_targ_thetaY_rms vs Slug, Sign Corrected



Right In: 349.560 ± 0.095 χ^2/NDF : 699303.9/15

Left Out: 343.497 ± 0.093 χ^2/NDF : 1215569.9/9

Right Out: 342.641 ± 0.091 χ^2/NDF : 575759.9/18

Left In: 312.399 ± 0.086 χ^2/NDF : 1904780.7/8

Left: 326.725 ± 0.063 χ^2/NDF : 3181052.2/18

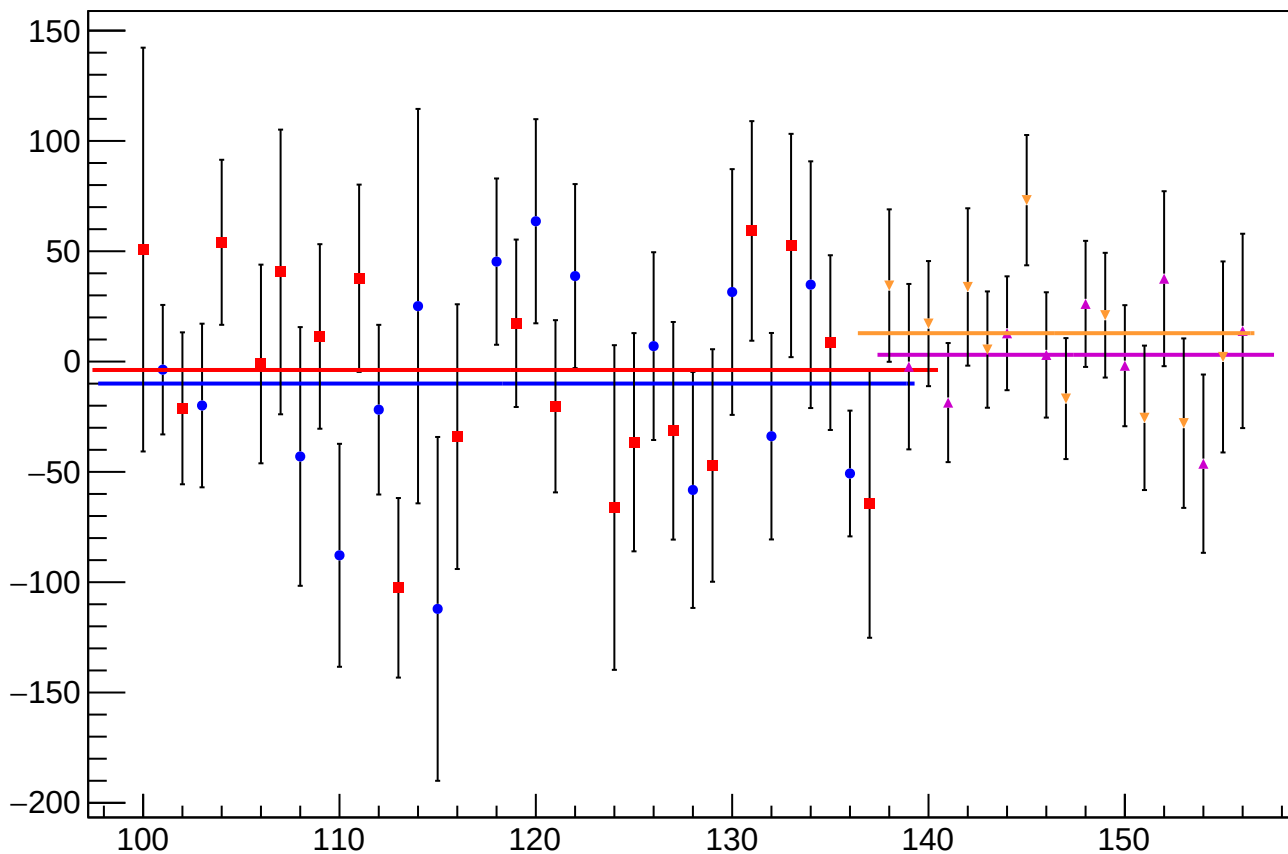
Right: 345.972 ± 0.066 χ^2/NDF : 1277836.8/34

In: 329.140 ± 0.064 χ^2/NDF : 2688852.9/24

Out: 343.062 ± 0.065 χ^2/NDF : 1791373.1/28

All: 335.940 ± 0.045 χ^2/NDF : 4503696.4/53

diff_bpmE_mean vs Slug, Sign Corrected



Right In: -9.969 $\pm$ 10.836 χ^2/NDF : 15.3/15

Left Out: 12.862 $\pm$ 9.911 χ^2/NDF : 8.8/9

Right Out: -3.814 $\pm$ 10.636 χ^2/NDF : 17.3/18

Left In: 3.069 $\pm$ 10.458 χ^2/NDF : 3.8/8

Left: 8.229 $\pm$ 7.194 χ^2/NDF : 13.1/18

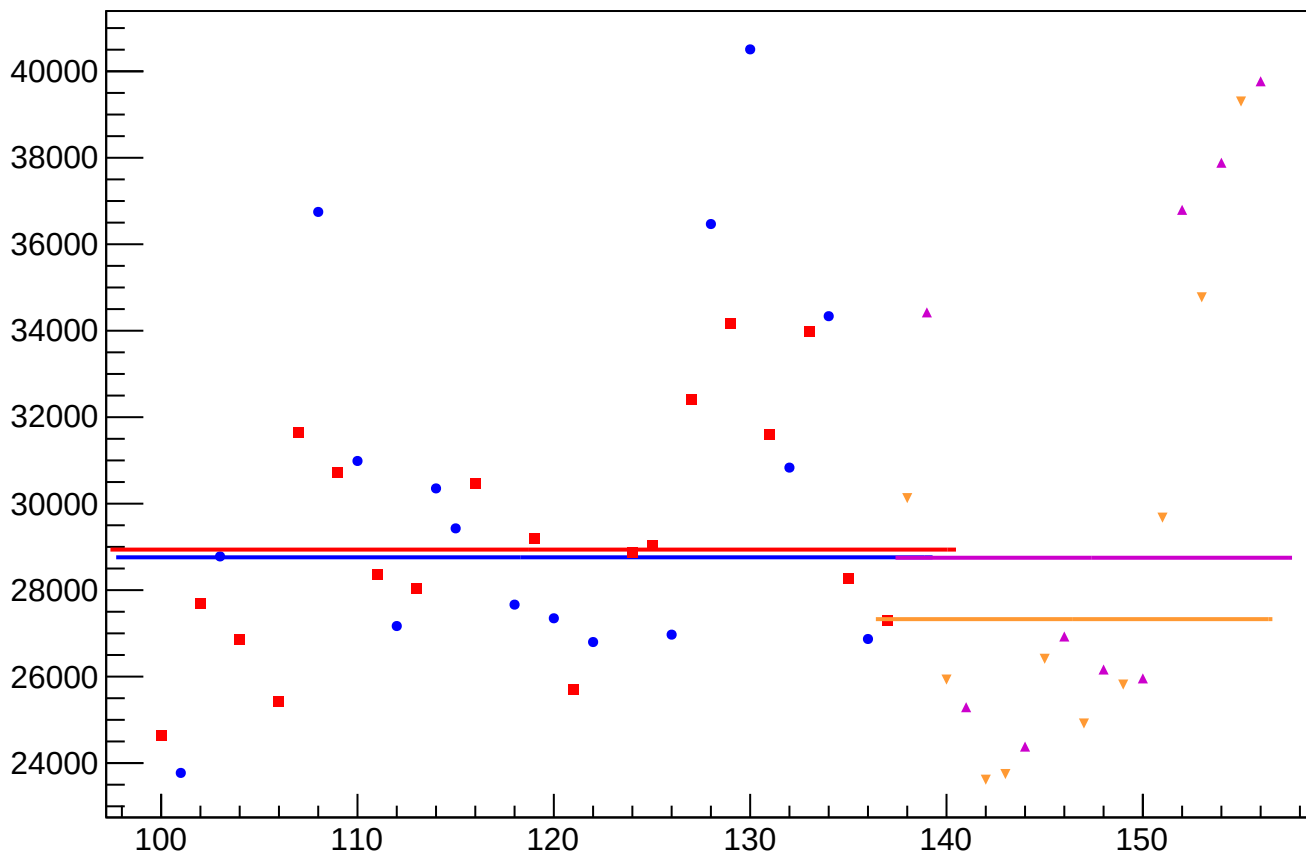
Right: -6.834 $\pm$ 7.591 χ^2/NDF : 32.8/34

In: -3.219 $\pm$ 7.525 χ^2/NDF : 19.8/24

Out: 5.112 $\pm$ 7.251 χ^2/NDF : 27.4/28

All: 1.101 $\pm$ 5.221 χ^2/NDF : 47.9/53

diff_bpmE_rms vs Slug, Sign Corrected



Right In: 28759.090+/-7.662 χ^2/NDF : 277639.9/15

Left Out: 27329.112+/-7.008 χ^2/NDF : 338141.8/9

Right Out: 28937.633+/-7.521 χ^2/NDF : 106266.0/18

Left In: 28749.027+/-7.395 χ^2/NDF : 491061.9/8

Left: 28000.954+/-5.087 χ^2/NDF : 848627.3/18

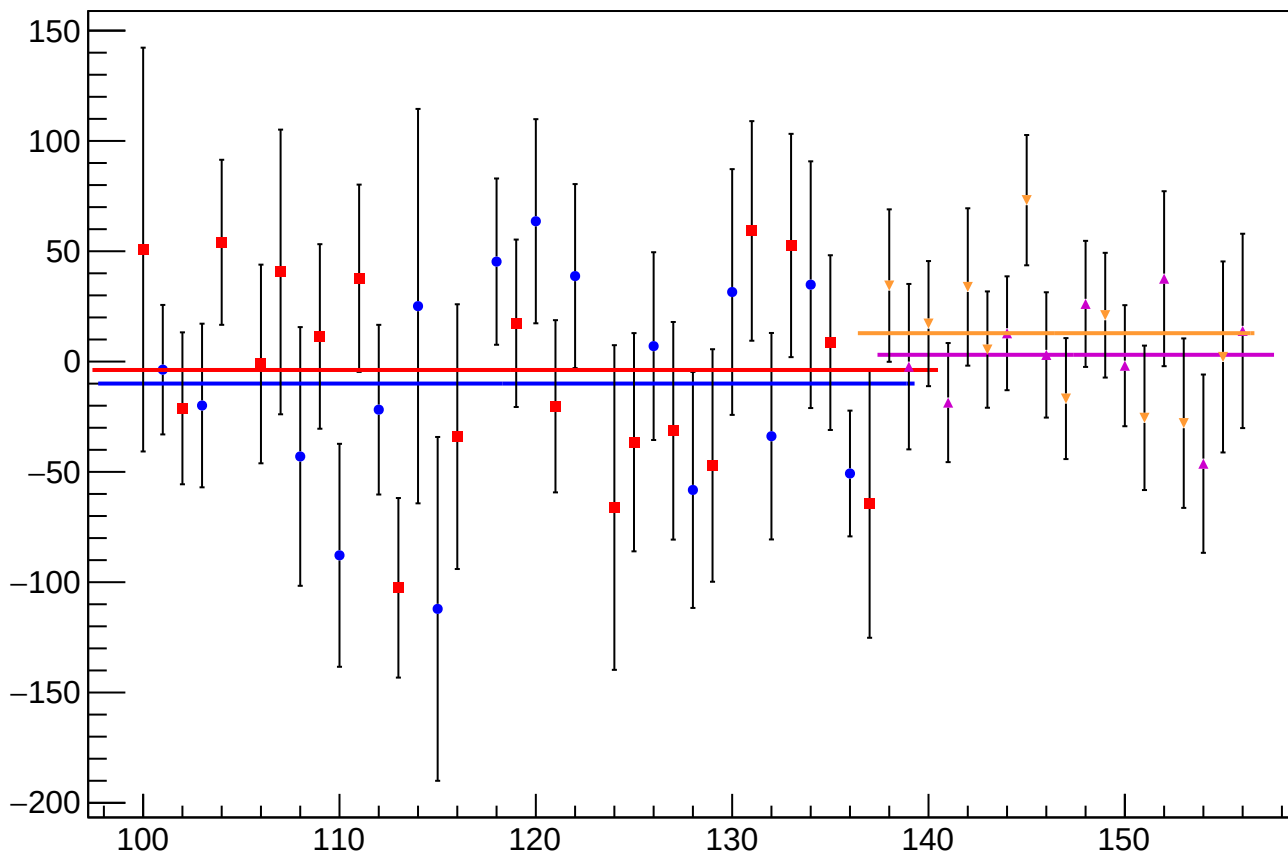
Right: 28850.024+/-5.367 χ^2/NDF : 384182.4/34

In: 28753.880+/-5.321 χ^2/NDF : 768702.7/24

Out: 28076.665+/-5.127 χ^2/NDF : 468891.0/28

All: 28402.710+/-3.692 χ^2/NDF : 1245993.0/5

diff_bpmEX_mean vs Slug, Sign Corrected



Right In: -9.969 $\pm$ 10.836 χ^2/NDF : 15.3/15

Left Out: 12.862 $\pm$ 9.911 χ^2/NDF : 8.8/9

Right Out: -3.814 $\pm$ 10.636 χ^2/NDF : 17.3/18

Left In: 3.069 $\pm$ 10.458 χ^2/NDF : 3.8/8

Left: 8.229 $\pm$ 7.194 χ^2/NDF : 13.1/18

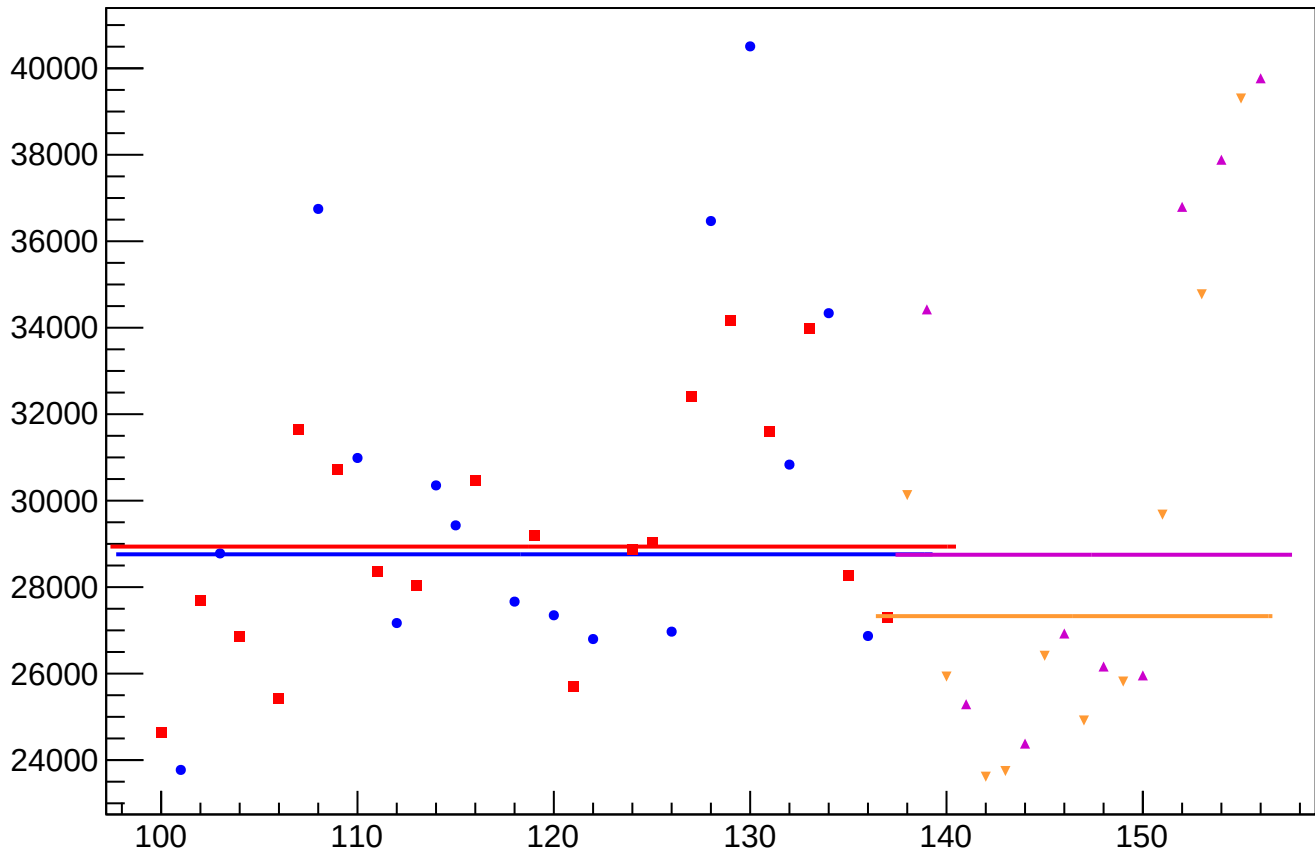
Right: -6.834 $\pm$ 7.591 χ^2/NDF : 32.8/34

In: -3.219 $\pm$ 7.525 χ^2/NDF : 19.8/24

Out: 5.112 $\pm$ 7.251 χ^2/NDF : 27.4/28

All: 1.101 $\pm$ 5.221 χ^2/NDF : 47.9/53

diff_bpmEX_rms vs Slug, Sign Corrected



Right In: 28759.090 $\pm$ 7.662 χ^2/NDF : 277639.9/15

Left Out: 27329.112 $\pm$ 7.008 χ^2/NDF : 338141.8/9

Right Out: 28937.633 $\pm$ 7.521 χ^2/NDF : 106266.0/18

Left In: 28749.027 $\pm$ 7.395 χ^2/NDF : 491061.9/8

Left: 28000.954 $\pm$ 5.087 χ^2/NDF : 848627.3/18

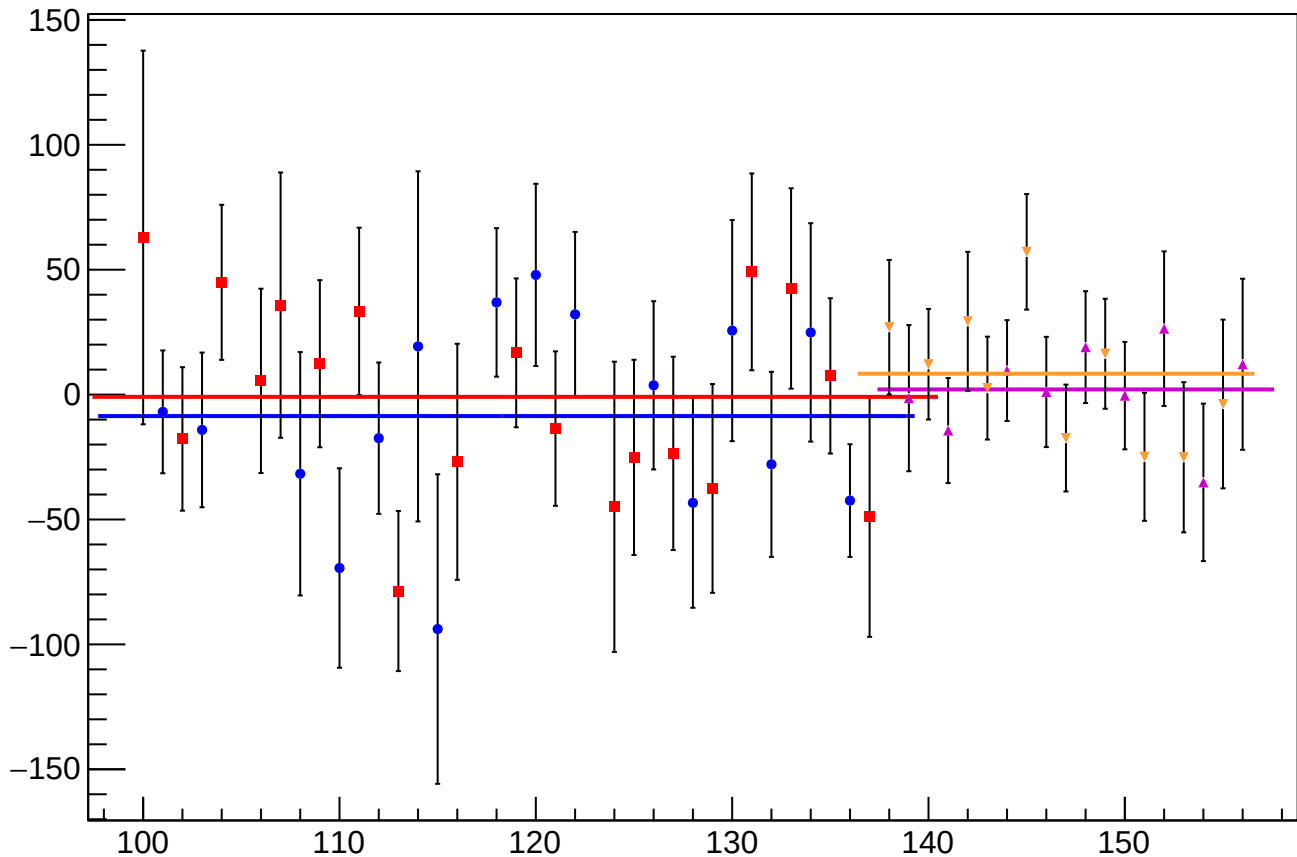
Right: 28850.024 $\pm$ 5.367 χ^2/NDF : 384182.4/34

In: 28753.880 $\pm$ 5.321 χ^2/NDF : 768702.7/24

Out: 28076.665 $\pm$ 5.127 χ^2/NDF : 468891.0/28

All: 28402.710 $\pm$ 3.692 χ^2/NDF : 1245993.0/5

diff_bpmE_11X12X_mean vs Slug, Sign Corrected



Right In: -8.599 ± 8.678 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 8.361 ± 7.739 $\chi^2/\text{NDF}: 10.2/9$

Right Out: -0.904 ± 8.506 $\chi^2/\text{NDF}: 17.6/18$

Left In: 2.071 ± 8.166 $\chi^2/\text{NDF}: 3.5/8$

Left: 5.385 ± 5.617 $\chi^2/\text{NDF}: 14.0/18$

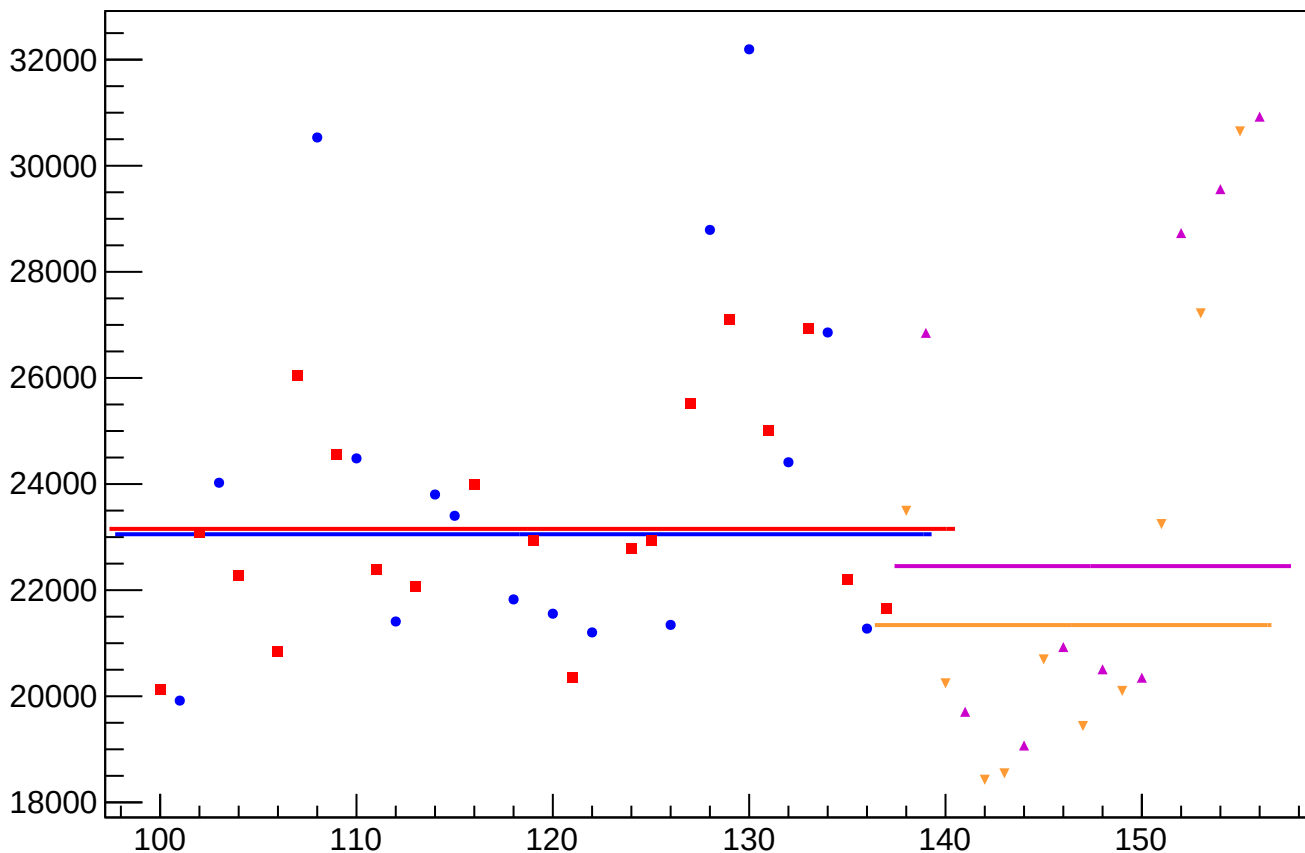
Right: -4.674 ± 6.075 $\chi^2/\text{NDF}: 33.5/34$

In: -2.940 ± 5.947 $\chi^2/\text{NDF}: 19.8/24$

Out: 4.165 ± 5.724 $\chi^2/\text{NDF}: 28.5/28$

All: 0.748 ± 4.124 $\chi^2/\text{NDF}: 49.0/53$

diff_bpmE_11X12X_rms vs Slug, Sign Corrected



Right In: 23053.910+/-6.137 χ^2/NDF : 261444.9/15

Left Out: 21342.068+/-5.472 χ^2/NDF : 339703.9/9

Right Out: 23155.251+/-6.015 χ^2/NDF : 93894.1/18

Left In: 22453.346+/-5.775 χ^2/NDF : 485407.6/8

Left: 21867.865+/-3.972 χ^2/NDF : 844623.1/18

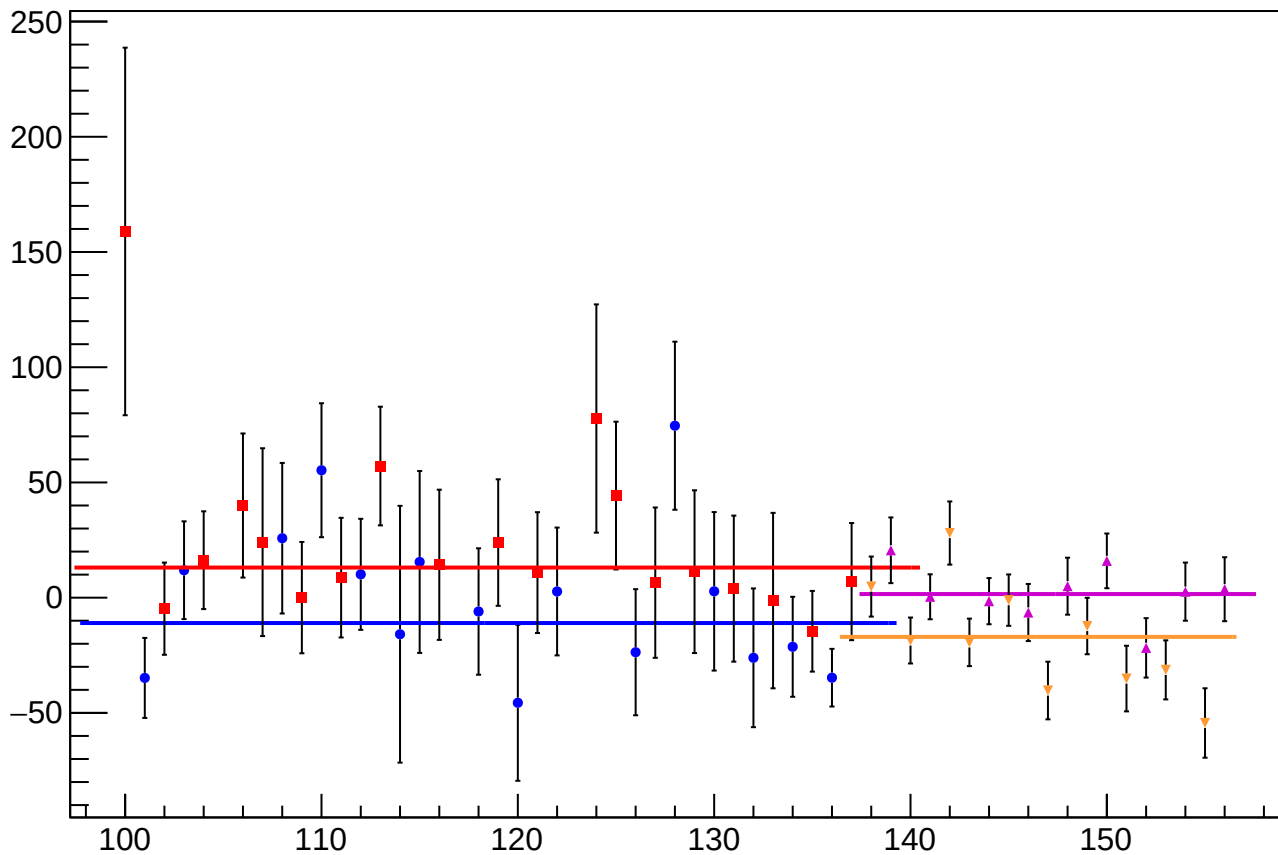
Right: 23105.598+/-4.295 χ^2/NDF : 355478.0/34

In: 22735.393+/-4.205 χ^2/NDF : 751932.1/24

Out: 22163.264+/-4.048 χ^2/NDF : 483319.2/28

All: 22438.399+/-2.916 χ^2/NDF : 1244859.2/5

diff_bpm4aesumX_mean vs Slug, Sign Corrected



Right In: -11.002 ± 6.155 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -17.009 ± 3.857 $\chi^2/\text{NDF}: 28.4/9$

Right Out: 13.071 ± 6.382 $\chi^2/\text{NDF}: 13.9/18$

Left In: 1.569 ± 3.983 $\chi^2/\text{NDF}: 7.2/8$

Left: -8.019 ± 2.771 $\chi^2/\text{NDF}: 46.7/18$

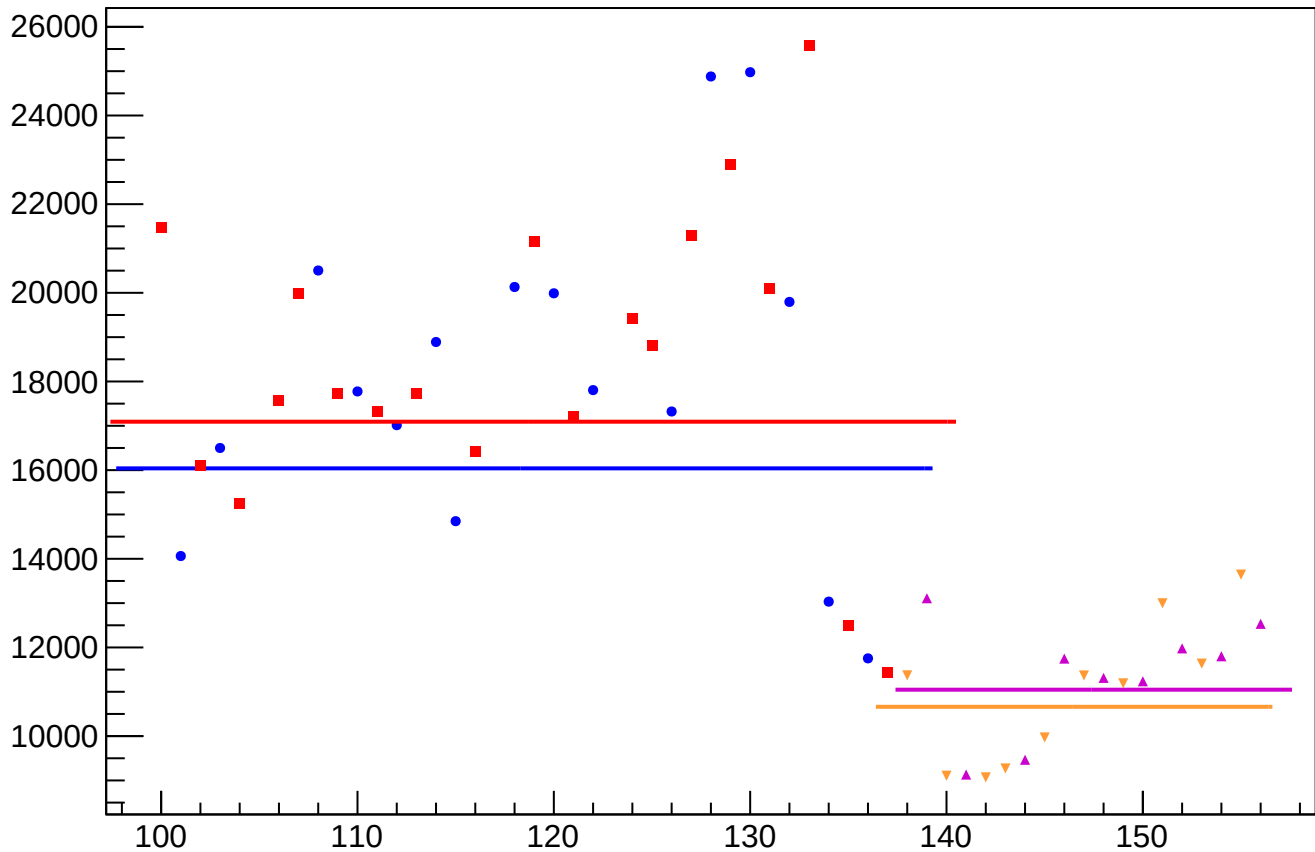
Right: 0.599 ± 4.430 $\chi^2/\text{NDF}: 43.3/34$

In: -2.142 ± 3.344 $\chi^2/\text{NDF}: 32.1/24$

Out: -8.962 ± 3.301 $\chi^2/\text{NDF}: 58.5/28$

All: -5.596 ± 2.349 $\chi^2/\text{NDF}: 92.7/53$

diff_bpm4aesumX_rms vs Slug, Sign Corrected



Right In: 16040.060+/-4.352 χ^2/NDF : 722678.9/15

Left Out: 10661.441+/-2.727 χ^2/NDF : 279458.4/9

Right Out: 17092.658+/-4.513 χ^2/NDF : 535464.0/18

Left In: 11047.132+/-2.817 χ^2/NDF : 217130.0/8

Left: 10848.083+/-1.959 χ^2/NDF : 506266.1/18

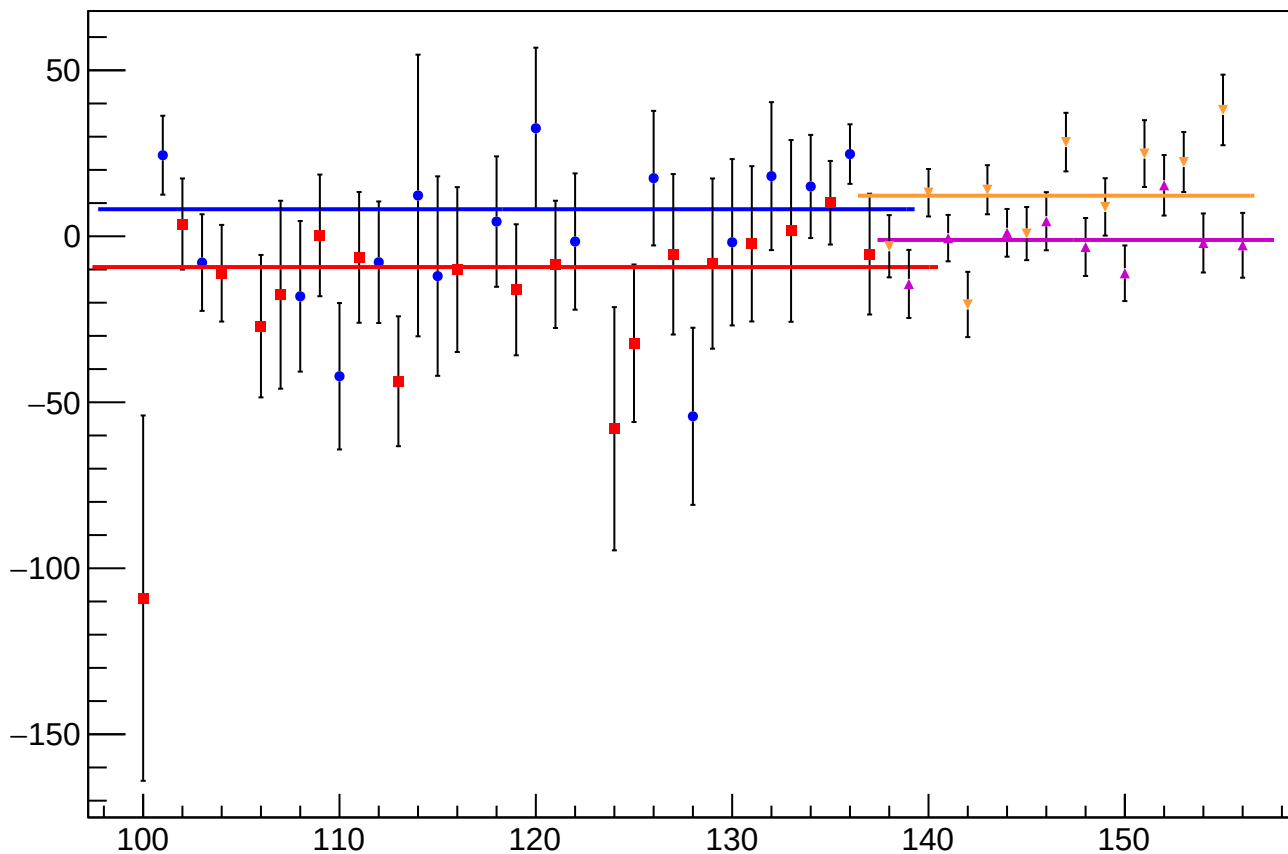
Right: 16547.306+/-3.133 χ^2/NDF : 1286331.2/34

In: 12520.972+/-2.365 χ^2/NDF : 1867433.6/24

Out: 12382.065+/-2.334 χ^2/NDF : 2302564.5/28

All: 12450.619+/-1.661 χ^2/NDF : 4171745.9/5

diff_bpm4aediiffX_mean vs Slug, Sign Corrected



Right In: 8.150 $\pm$ 4.423 χ^2/NDF : 21.8/15

Left Out: 12.225 $\pm$ 2.748 χ^2/NDF : 28.1/9

Right Out: -9.270 $\pm$ 4.607 χ^2/NDF : 13.9/18

Left In: -1.106 $\pm$ 2.829 χ^2/NDF : 7.0/8

Left: 5.754 $\pm$ 1.971 χ^2/NDF : 46.5/18

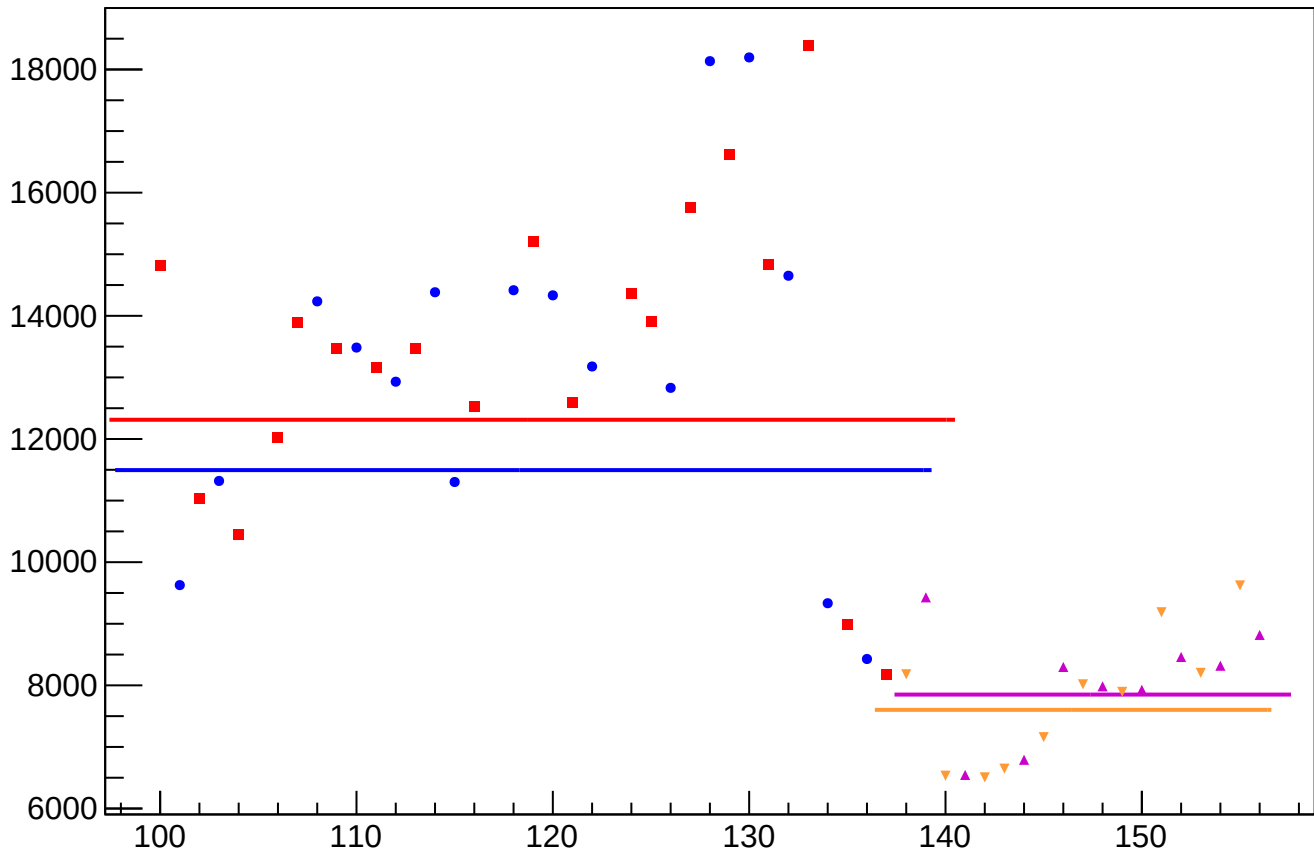
Right: -0.204 $\pm$ 3.191 χ^2/NDF : 43.1/34

In: 1.582 $\pm$ 2.383 χ^2/NDF : 31.9/24

Out: 6.585 $\pm$ 2.360 χ^2/NDF : 58.0/28

All: 4.108 $\pm$ 1.677 χ^2/NDF : 92.1/53

diff_bpm4aediX_rms vs Slug, Sign Corrected



Right In: 11494.969 $\pm$ 3.127 χ^2/NDF : 789990.1/15

Left Out: 7602.400 $\pm$ 1.943 χ^2/NDF :254100.9/9

Right Out: 12312.550 $\pm$ 3.258 χ^2/NDF : 598755.3/18

Left In: 7850.207 $\pm$ 2.000 χ^2/NDF :200583.8/8

Left: 7722.698 $\pm$ 1.394 χ^2/NDF : 462580.7/18

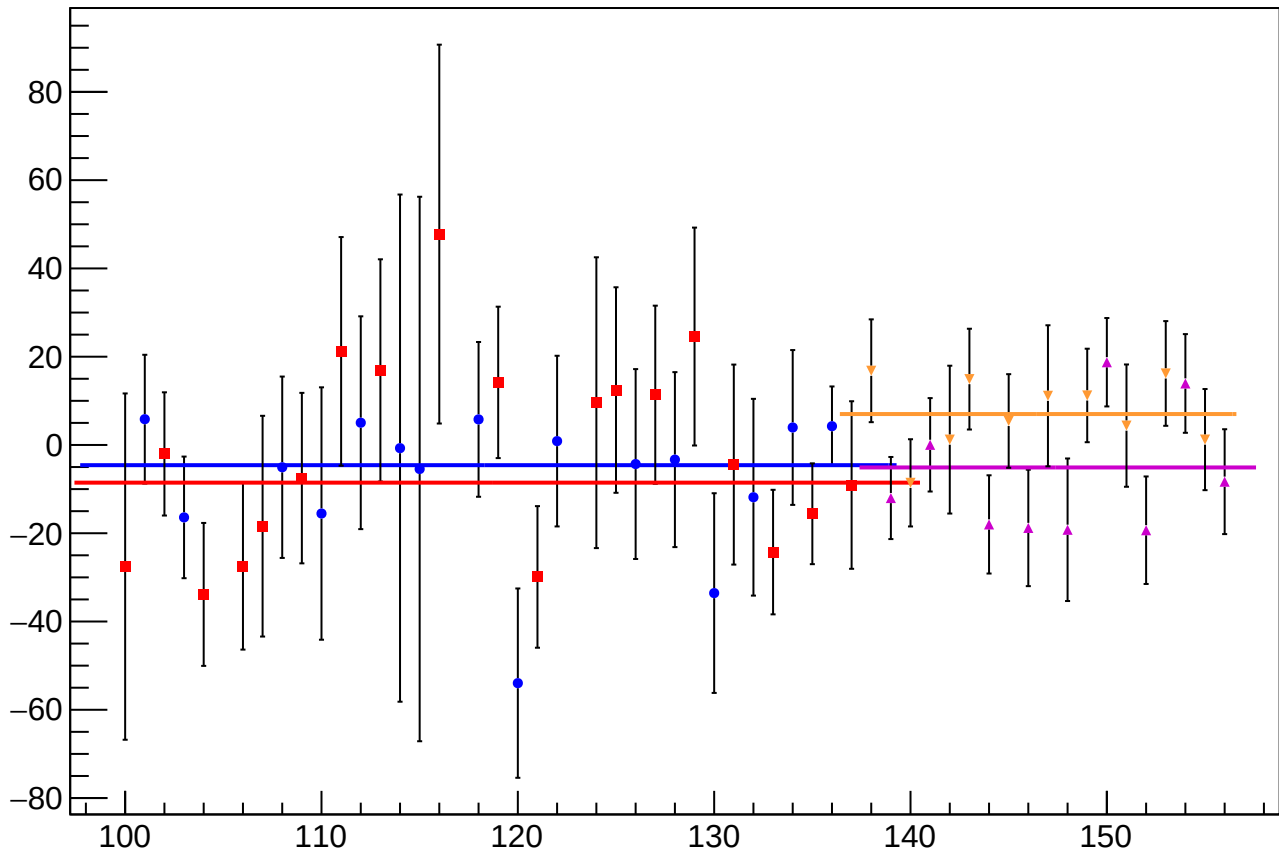
Right: 11887.075 $\pm$ 2.256 χ^2/NDF : 1421522.1/34

In: 8908.468 $\pm$ 1.685 χ^2/NDF :1954428.4/24

Out: 8838.306 $\pm$ 1.669 χ^2/NDF :2394748.6/28

All: 8873.043 $\pm$ 1.186 χ^2/NDF : 4350052.3/53

diff_bpm4aesumY_mean vs Slug, Sign Corrected



Right In: -4.578 $\pm$ 4.554 χ^2/NDF : 10.2/15

Left Out: 7.006 $\pm$ 3.766 χ^2/NDF : 4.9/9

Right Out: -8.537 $\pm$ 4.392 χ^2/NDF : 17.2/18

Left In: -5.095 $\pm$ 3.781 χ^2/NDF : 14.0/8

Left: 0.980 $\pm$ 2.668 χ^2/NDF : 24.1/18

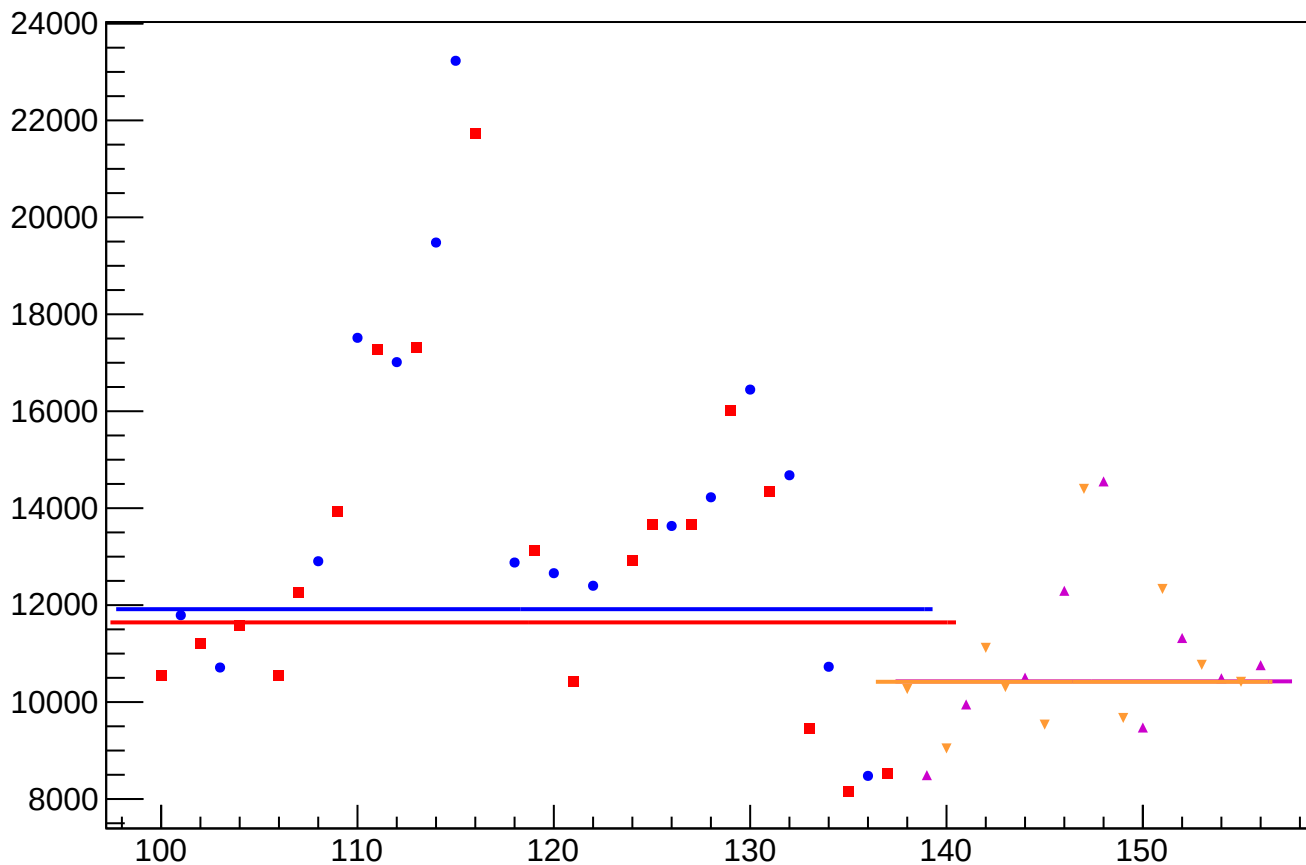
Right: -6.629 $\pm$ 3.161 χ^2/NDF : 27.8/34

In: -4.884 $\pm$ 2.909 χ^2/NDF : 24.2/24

Out: 0.420 $\pm$ 2.859 χ^2/NDF : 29.3/28

All: -2.186 $\pm$ 2.039 χ^2/NDF : 55.3/53

diff_bpm4aesumY_rms vs Slug, Sign Corrected



Right In: 11916.355 $\pm$ 3.220 χ^2 /NDF: 749775.2/15

Left Out: 10418.471 $\pm$ 2.663 χ^2 /NDF: 230548.1/9

Right Out: 11643.622 $\pm$ 3.106 χ^2 /NDF: 790359.6/18

Left In: 10427.191 $\pm$ 2.674 χ^2 /NDF: 291820.1/8

Left: 10422.813 $\pm$ 1.887 χ^2 /NDF: 522373.6/18

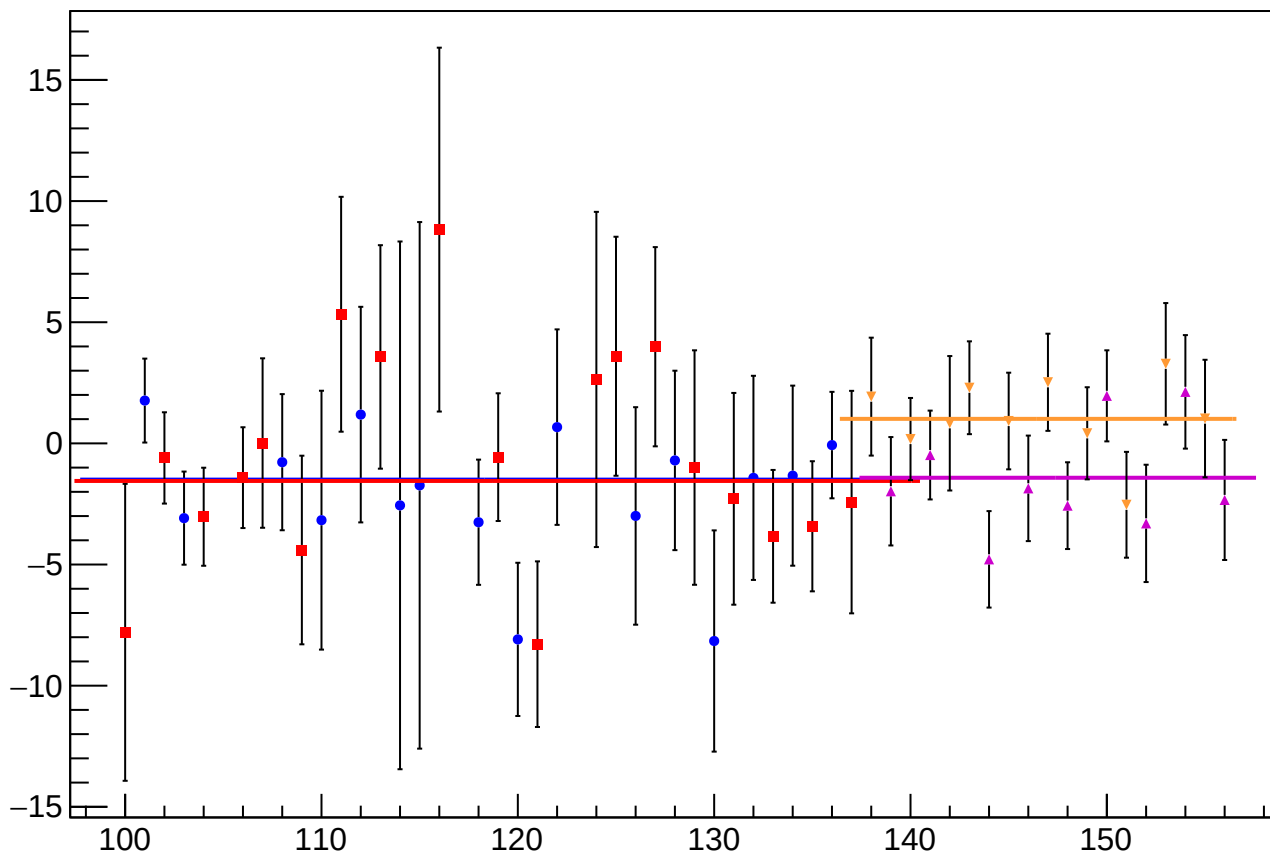
Right: 11775.058 $\pm$ 2.235 χ^2 /NDF: 1543851.0/34

In: 11034.912 $\pm$ 2.057 χ^2 /NDF: 1168176.8/24

Out: 10937.584 $\pm$ 2.022 χ^2 /NDF: 1110581.6/28

All: 10985.402 $\pm$ 1.442 χ^2 /NDF: 2279897.1/5

diff_bpm4aediY_mean vs Slug, Sign Corrected



Right In: -1.496 $\pm$ 0.778 χ^2/NDF : 12.6/15

Left Out: 1.012 $\pm$ 0.669 χ^2/NDF : 5.0/9

Right Out: -1.551 $\pm$ 0.745 χ^2/NDF : 16.3/18

Left In: -1.419 $\pm$ 0.695 χ^2/NDF : 9.9/8

Left: -0.158 $\pm$ 0.482 χ^2/NDF : 21.2/18

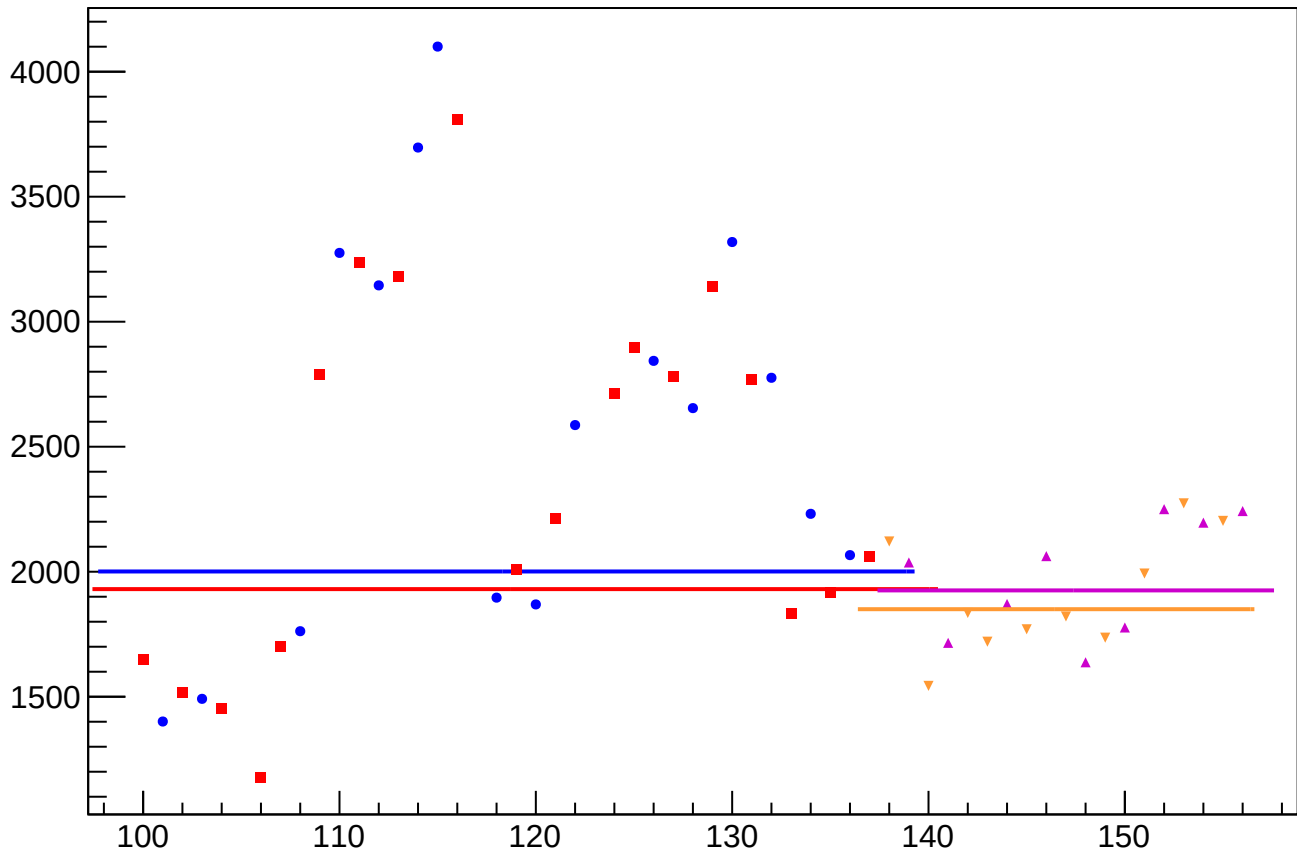
Right: -1.525 $\pm$ 0.538 χ^2/NDF : 28.9/34

In: -1.453 $\pm$ 0.518 χ^2/NDF : 22.5/24

Out: -0.133 $\pm$ 0.498 χ^2/NDF : 27.8/28

All: -0.766 $\pm$ 0.359 χ^2/NDF : 53.7/53

diff_bpm4aediY_rms vs Slug, Sign Corrected



Right In: 2001.000 ± 0.550 $\chi^2/\text{NDF}: 1189784.2/15$

Left Out: 1850.117 ± 0.473 $\chi^2/\text{NDF}: 218330.6/9$

Right Out: 1930.434 ± 0.526 $\chi^2/\text{NDF}: 1403552.6/18$

Left In: 1925.282 ± 0.491 $\chi^2/\text{NDF}: 200213.8/8$

Left: 1886.275 ± 0.341 $\chi^2/\text{NDF}: 430691.1/18$

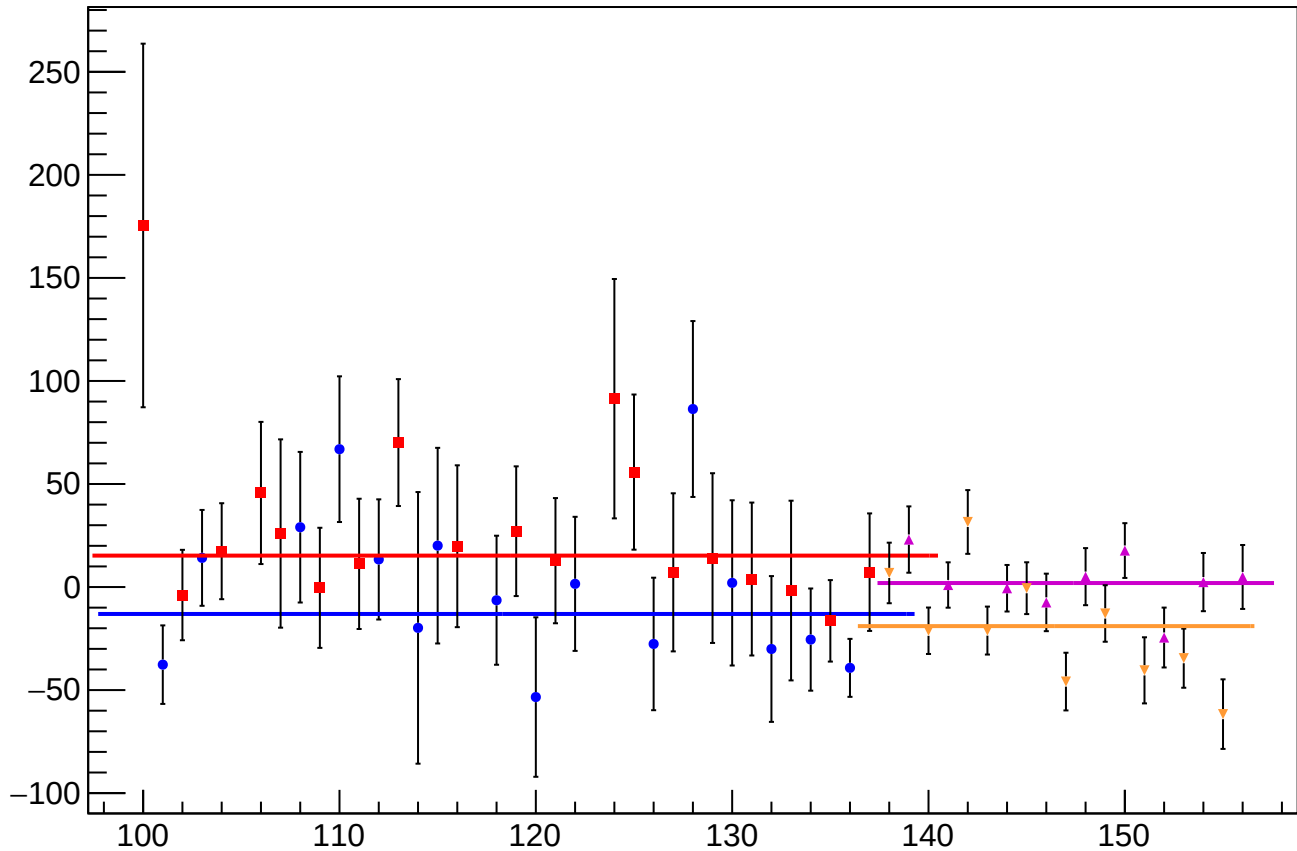
Right: 1964.155 ± 0.380 $\chi^2/\text{NDF}: 2601922.6/34$

In: 1958.866 ± 0.366 $\chi^2/\text{NDF}: 1400533.2/24$

Out: 1885.994 ± 0.352 $\chi^2/\text{NDF}: 1634761.5/28$

All: 1920.945 ± 0.254 $\chi^2/\text{NDF}: 3055867.7/53$

diff_bpmtargetsumX_mean vs Slug, Sign Corrected



Right In: -13.066 ± 7.026 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -18.962 ± 4.340 $\chi^2/\text{NDF}: 29.2/9$

Right Out: 15.253 ± 7.321 $\chi^2/\text{NDF}: 14.3/18$

Left In: 1.946 ± 4.478 $\chi^2/\text{NDF}: 7.0/8$

Left: -8.833 ± 3.117 $\chi^2/\text{NDF}: 47.5/18$

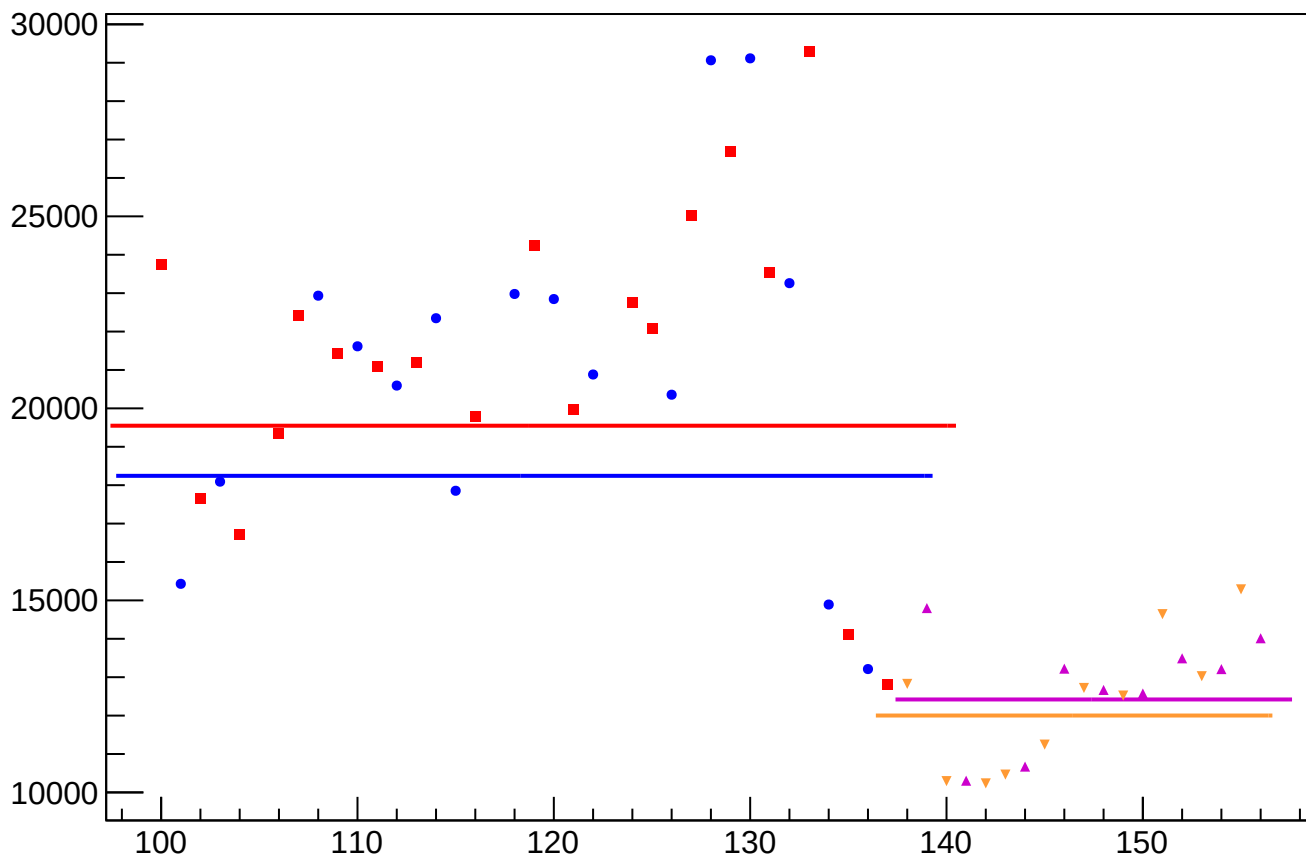
Right: 0.513 ± 5.069 $\chi^2/\text{NDF}: 44.0/34$

In: -2.389 ± 3.776 $\chi^2/\text{NDF}: 32.1/24$

Out: -10.063 ± 3.734 $\chi^2/\text{NDF}: 59.8/28$

All: -6.270 ± 2.655 $\chi^2/\text{NDF}: 94.0/53$

diff_bpmtargetsumX_rms vs Slug, Sign Corrected



Right In: 18243.342+/-4.968 χ^2/NDF : 819828.6/15

Left Out: 12002.029+/-3.069 χ^2/NDF :268772.2/9

Right Out: 19548.426+/-5.176 χ^2/NDF : 621716.4/18

Left In: 12420.090+/-3.166 χ^2/NDF :211299.3/8

Left: 12204.556+/-2.204 χ^2/NDF : 489060.1/18

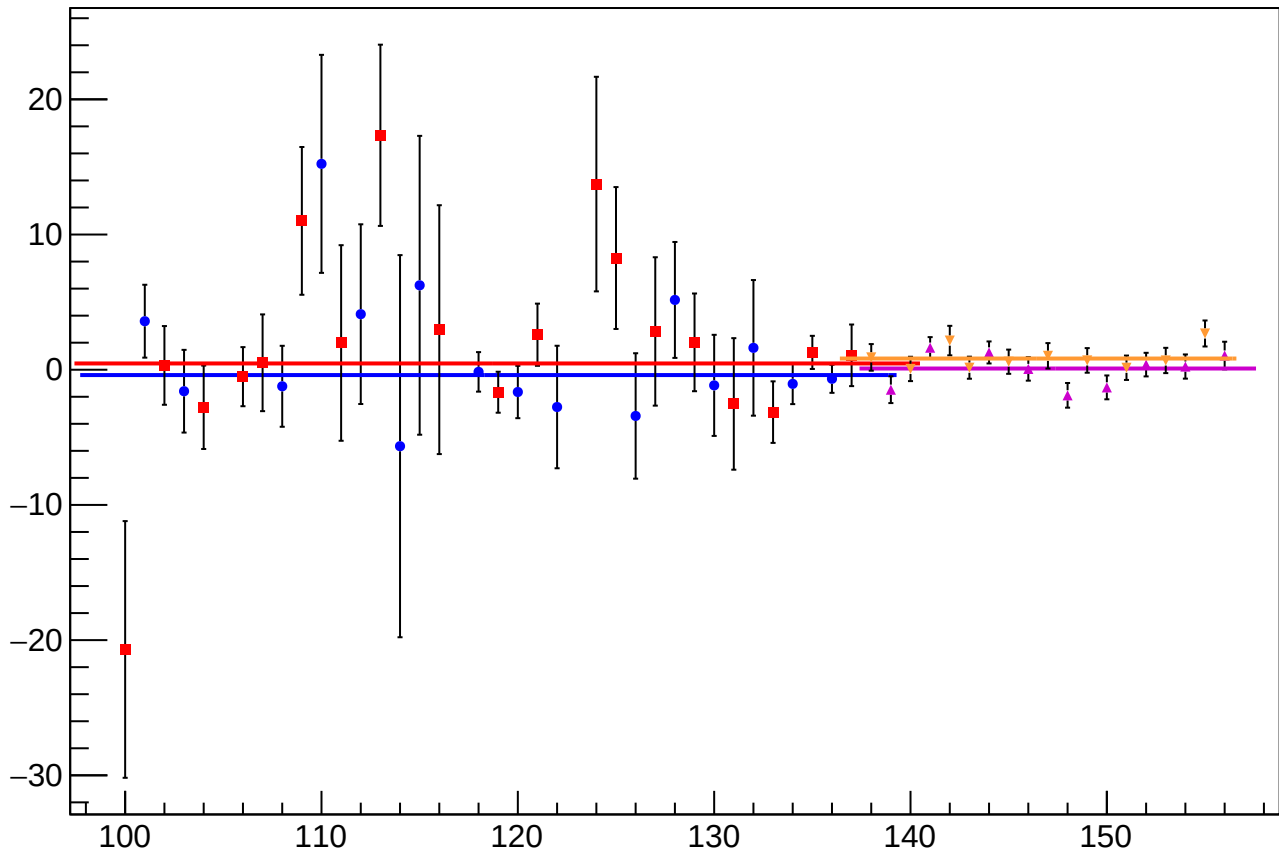
Right: 18869.124+/-3.585 χ^2/NDF : 1474629.7/34

In: 14101.918+/-2.670 χ^2/NDF :2008098.7/24

Out: 13964.820+/-2.640 χ^2/NDF :2462956.8/28

All: 14032.592+/-1.877 χ^2/NDF : 4472388.6/5

diff_bpmtargetdiffX_mean vs Slug, Sign Corrected



Right In: -0.394 ± 0.600 χ^2/NDF : 10.4/15

Left Out: 0.828 ± 0.293 χ^2/NDF : 7.4/9

Right Out: 0.464 ± 0.634 χ^2/NDF : 28.0/18

Left In: 0.089 ± 0.295 χ^2/NDF : 16.8/8

Left: 0.461 ± 0.208 χ^2/NDF : 27.3/18

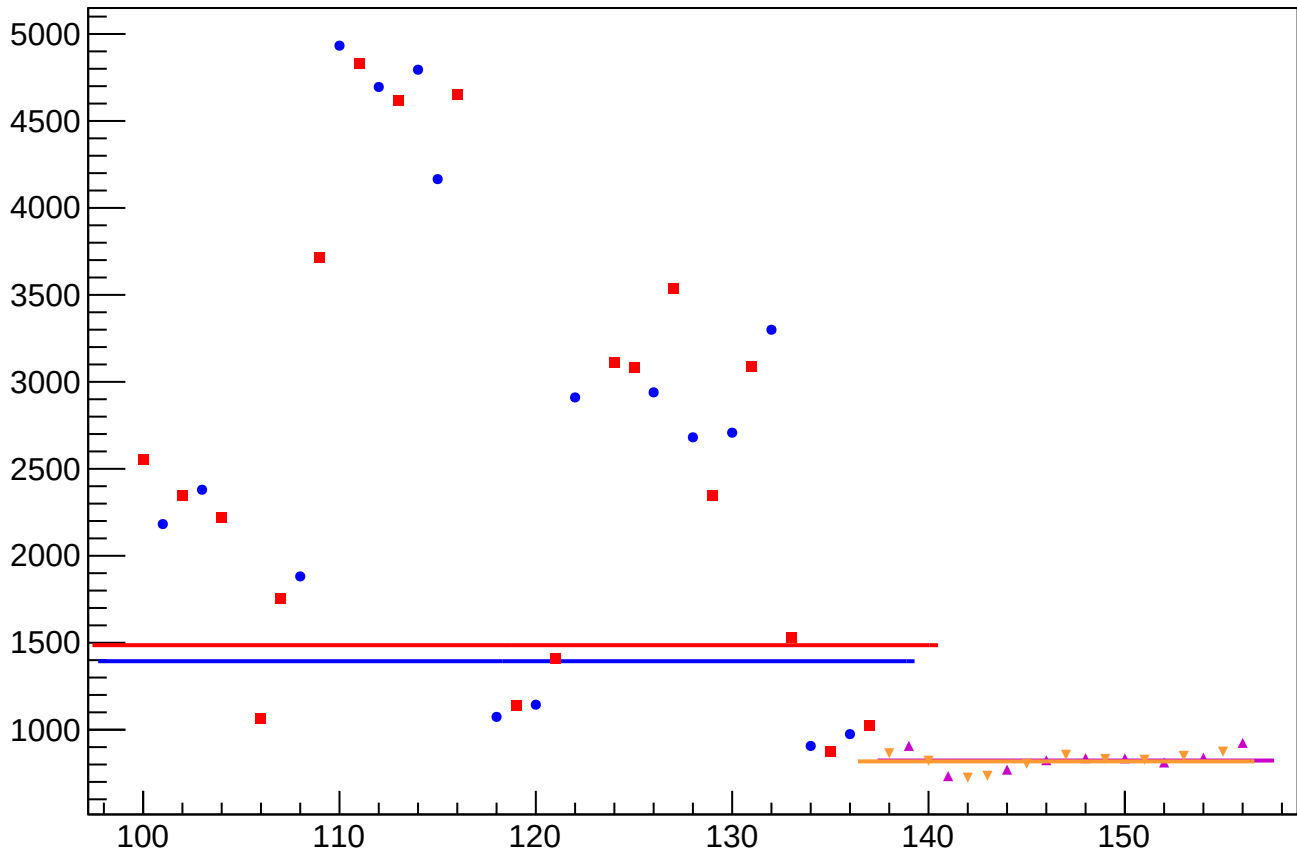
Right: 0.011 ± 0.436 χ^2/NDF : 39.4/34

In: -0.005 ± 0.265 χ^2/NDF : 27.7/24

Out: 0.764 ± 0.266 χ^2/NDF : 35.7/28

All: 0.378 ± 0.188 χ^2/NDF : 67.6/53

diff_bpmtargetdiffX_rms vs Slug, Sign Corrected



Right In: 1393.912 $\pm$ 0.424 χ^2 /NDF: 3381007.0/15

Left Out: 818.113 $\pm$ 0.207 χ^2 /NDF: 53185.4/9

Right Out: 1486.000 $\pm$ 0.448 χ^2 /NDF: 3398817.4/18

Left In: 822.852 $\pm$ 0.209 χ^2 /NDF: 70773.3/8

Left: 820.468 $\pm$ 0.147 χ^2 /NDF: 124218.4/18

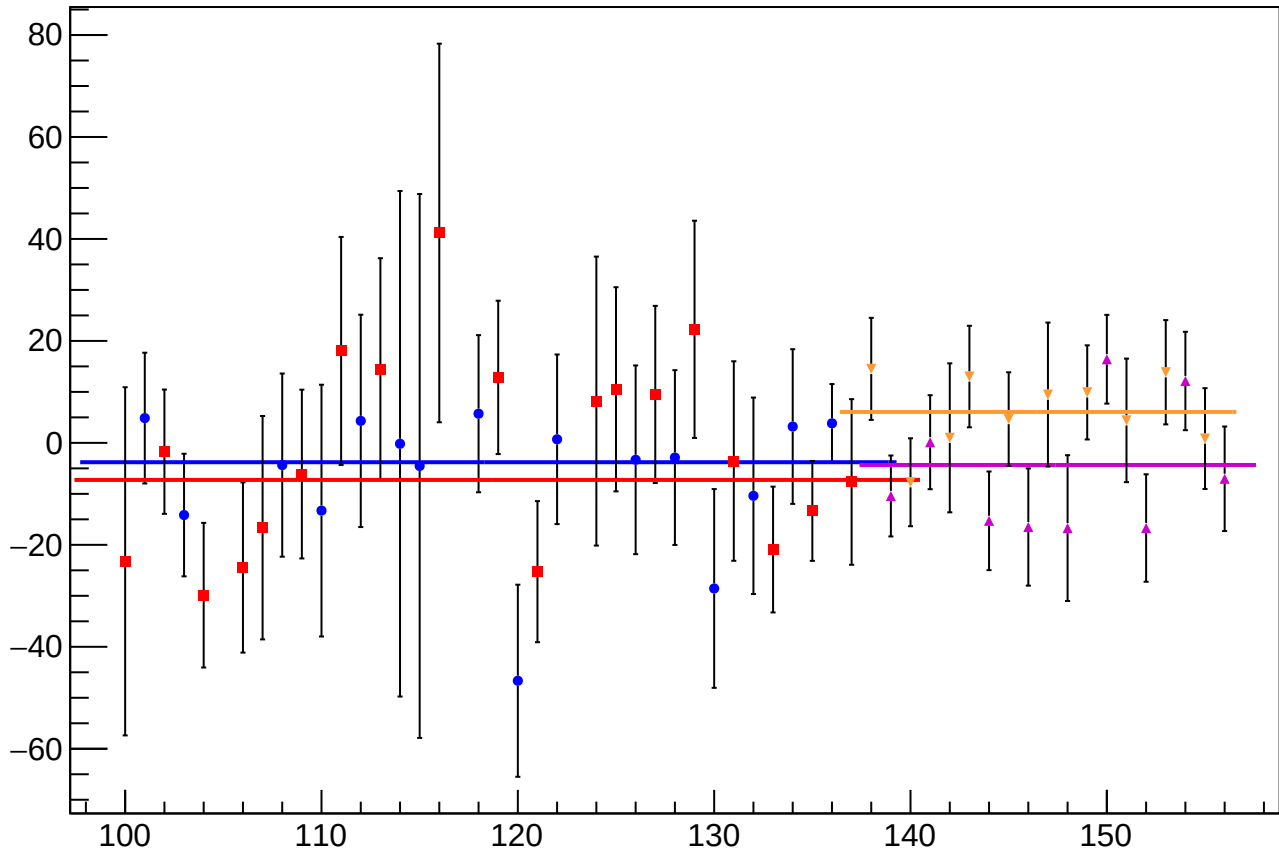
Right: 1437.438 $\pm$ 0.308 χ^2 /NDF: 6802082.3/34

In: 933.945 $\pm$ 0.187 χ^2 /NDF: 4910403.8/24

Out: 935.738 $\pm$ 0.188 χ^2 /NDF: 5281169.5/28

All: 934.837 $\pm$ 0.133 χ^2 /NDF: 10191618.9/53

diff_bpmtargetsumY_mean vs Slug, Sign Corrected



Right In: -3.795 ± 3.943 χ^2/NDF : 10.1/15

Left Out: 6.070 ± 3.272 χ^2/NDF : 5.0/9

Right Out: -7.264 ± 3.807 χ^2/NDF : 17.3/18

Left In: -4.335 ± 3.275 χ^2/NDF : 14.0/8

Left: 0.873 ± 2.315 χ^2/NDF : 24.1/18

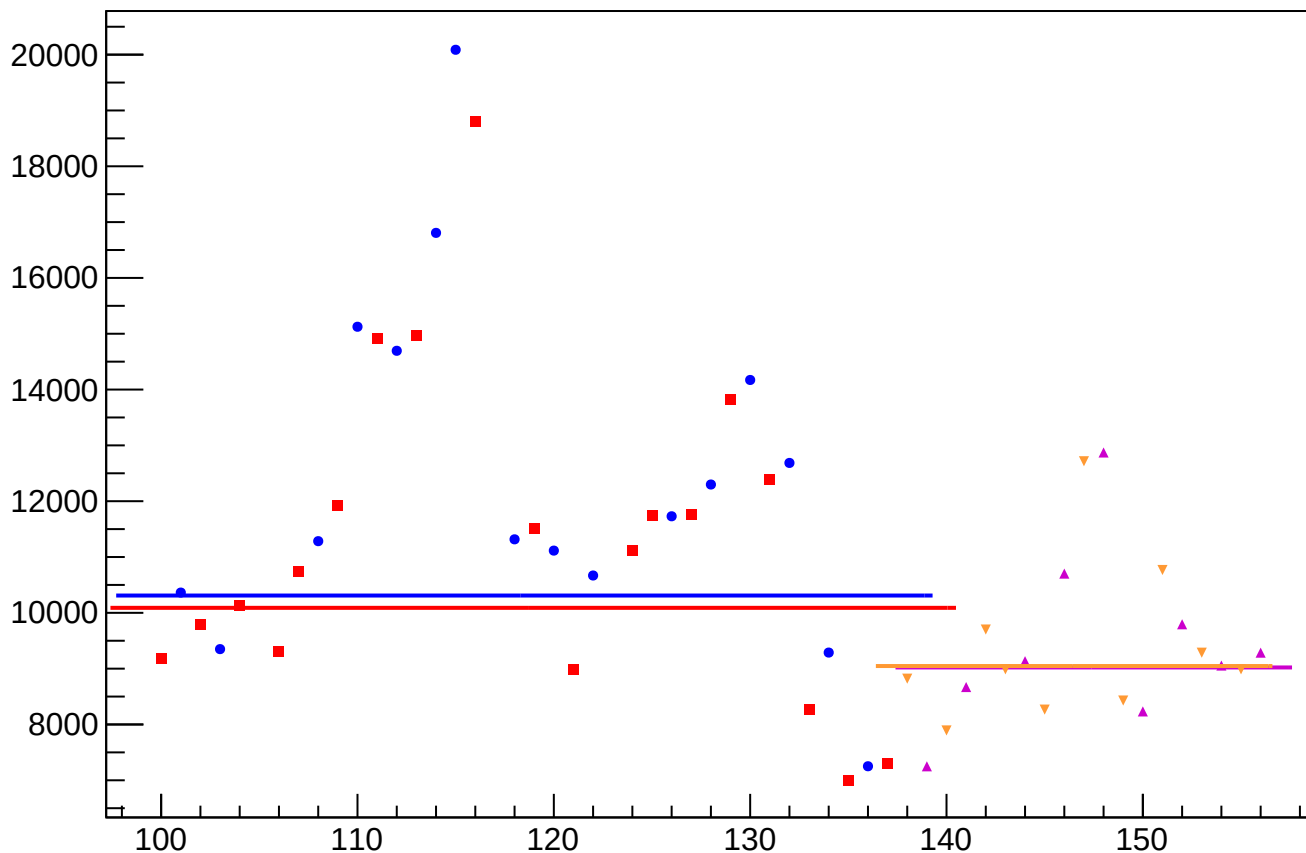
Right: -5.590 ± 2.739 χ^2/NDF : 27.7/34

In: -4.114 ± 2.519 χ^2/NDF : 24.1/24

Out: 0.404 ± 2.482 χ^2/NDF : 29.3/28

All: -1.821 ± 1.768 χ^2/NDF : 55.0/53

diff_bpmtargetsumY_rms vs Slug, Sign Corrected



Right In: 10309.969+/-2.788 χ^2/NDF : 770518.2/15

Left Out: 9046.909+/-2.314 χ^2/NDF : 240723.4/9

Right Out: 10089.584+/-2.692 χ^2/NDF : 792788.1/18

Left In: 9021.406+/-2.316 χ^2/NDF : 319024.3/8

Left: 9034.169+/-1.637 χ^2/NDF : 559808.4/18

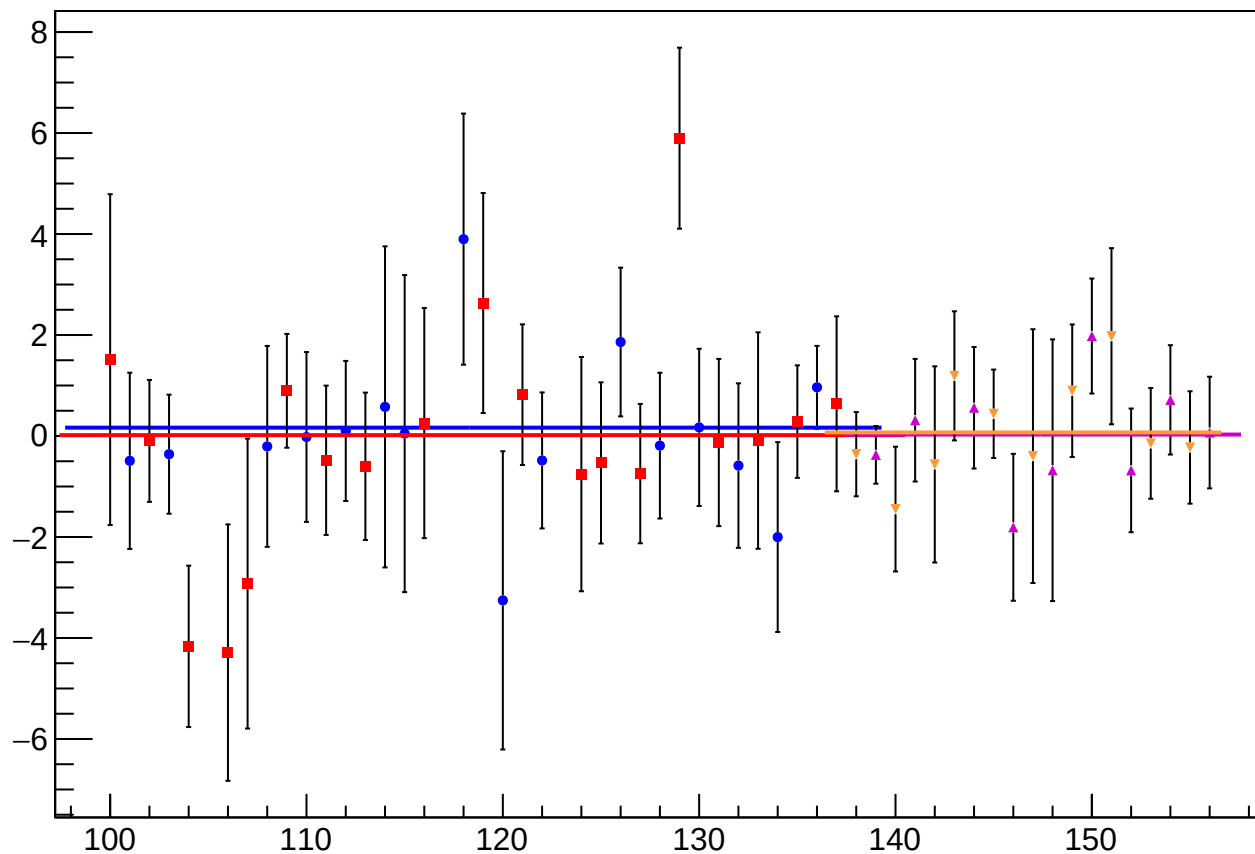
Right: 10195.906+/-1.937 χ^2/NDF : 1566539.8/34

In: 9547.492+/-1.782 χ^2/NDF : 1215925.3/24

Out: 9489.949+/-1.755 χ^2/NDF : 1119791.9/28

All: 9518.284+/-1.250 χ^2/NDF : 2336246.7/53

diff_bpmtargetdiffY_mean vs Slug, Sign Corrected



Right In: 0.165 $\pm$ 0.386 χ^2 /NDF: 8.1/15

Left Out: 0.070 $\pm$ 0.378 χ^2 /NDF: 4.6/9

Right Out: 0.017 $\pm$ 0.372 χ^2 /NDF: 25.2/18

Left In: 0.029 $\pm$ 0.350 χ^2 /NDF: 6.1/8

Left: 0.048 $\pm$ 0.257 χ^2 /NDF: 10.7/18

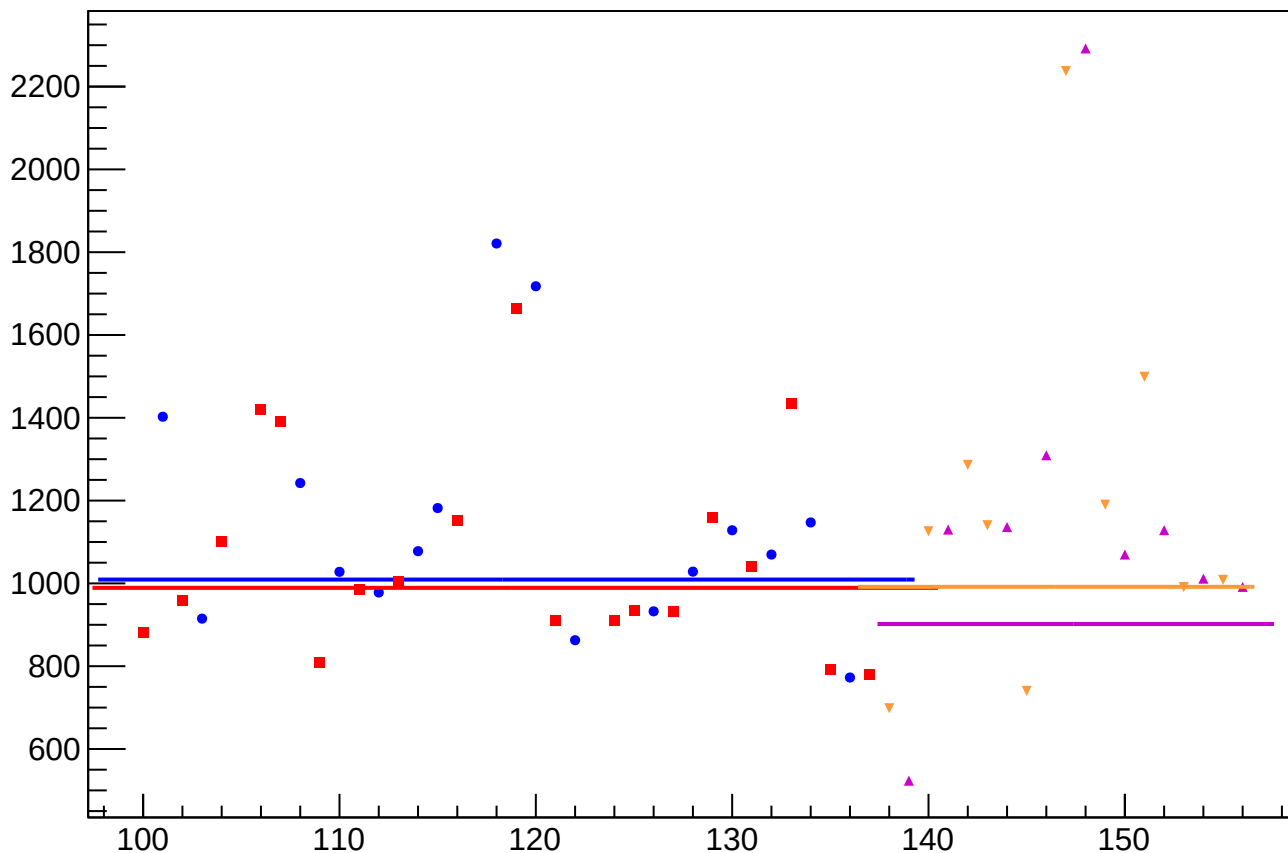
Right: 0.089 $\pm$ 0.268 χ^2 /NDF: 33.4/34

In: 0.090 $\pm$ 0.259 χ^2 /NDF: 14.3/24

Out: 0.043 $\pm$ 0.265 χ^2 /NDF: 29.7/28

All: 0.067 $\pm$ 0.185 χ^2 /NDF: 44.0/53

diff_bpmtargetdiffY_rms vs Slug, Sign Corrected



Right In: 1009.222 ± 0.273 $\chi^2/\text{NDF}: 699303.9/15$

Left Out: 991.716 ± 0.268 $\chi^2/\text{NDF}: 1215569.9/9$

Right Out: 989.246 ± 0.263 $\chi^2/\text{NDF}: 575759.9/18$

Left In: 901.932 ± 0.247 $\chi^2/\text{NDF}: 1904780.7/8$

Left: 943.293 ± 0.182 $\chi^2/\text{NDF}: 3181052.2/18$

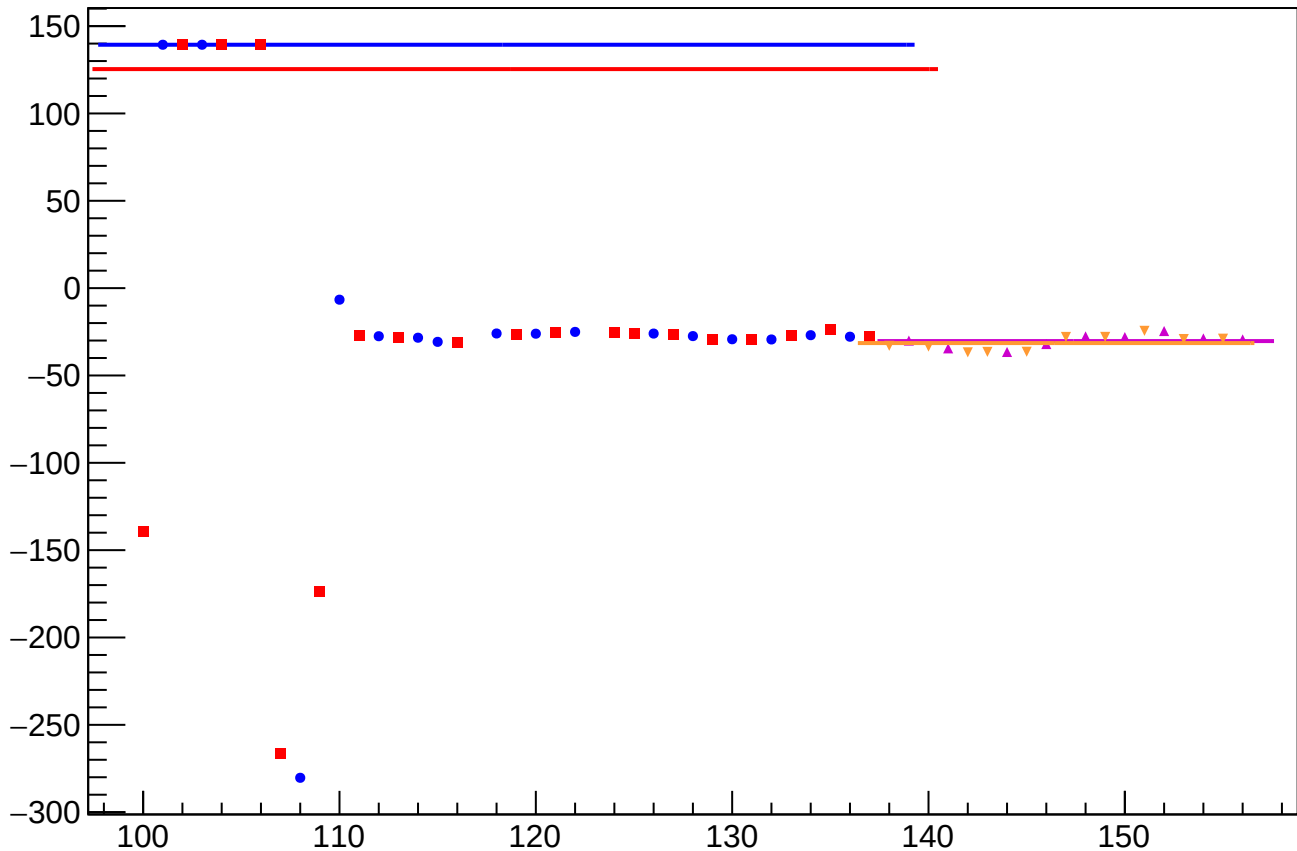
Right: 998.863 ± 0.190 $\chi^2/\text{NDF}: 1277836.8/34$

In: 950.267 ± 0.183 $\chi^2/\text{NDF}: 2688852.9/24$

Out: 990.461 ± 0.188 $\chi^2/\text{NDF}: 1791373.1/28$

All: 969.897 ± 0.131 $\chi^2/\text{NDF}: 4503696.4/53$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 139.337+/-0.000 χ^2/NDF : 47088045550.1/15

Left Out: -31.453+/-0.001 χ^2/NDF : 73775655.3/9

Right Out: 125.392+/-0.000 χ^2/NDF : 774173119844052.5/18

Left In: -30.306+/-0.001 χ^2/NDF : 51718469.2/8

Left: -30.907+/-0.000 χ^2/NDF : 127900629.5/18

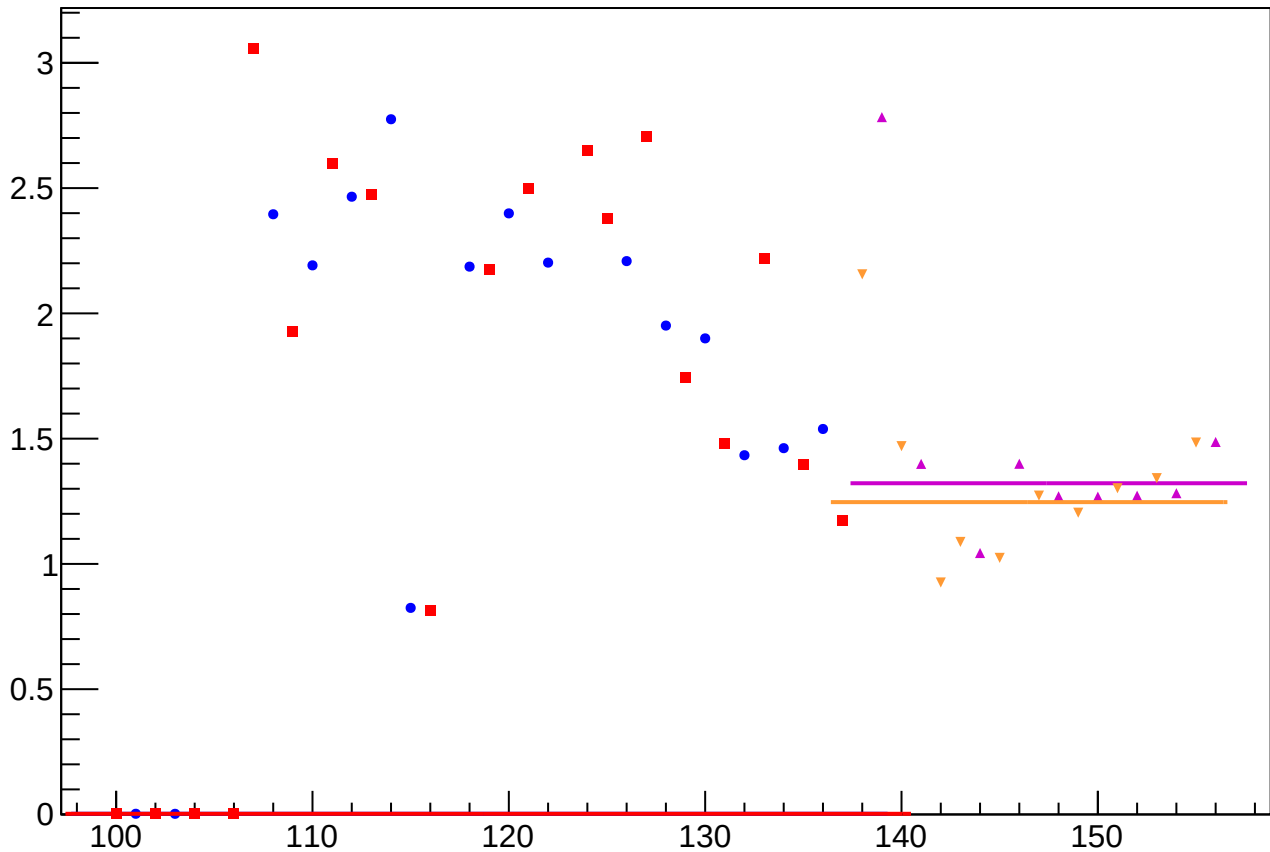
Right: 131.818+/-0.000 χ^2/NDF : 793004999492497

In: 139.333+/-0.000 χ^2/NDF : 147693189715.2/24

Out: 125.389+/-0.000 χ^2/NDF : 774267843117953.

All: 131.815+/-0.000 χ^2/NDF : 79319952748

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 9565657.6/15

Left Out: 1.247 $\pm$ 0.000 χ^2 /NDF:459060.6/9

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 9733783.1/18

Left In: 1.322 $\pm$ 0.000 χ^2 /NDF:582350.1/8

Left: 1.283 $\pm$ 0.000 χ^2 /NDF: 1062188.2/18

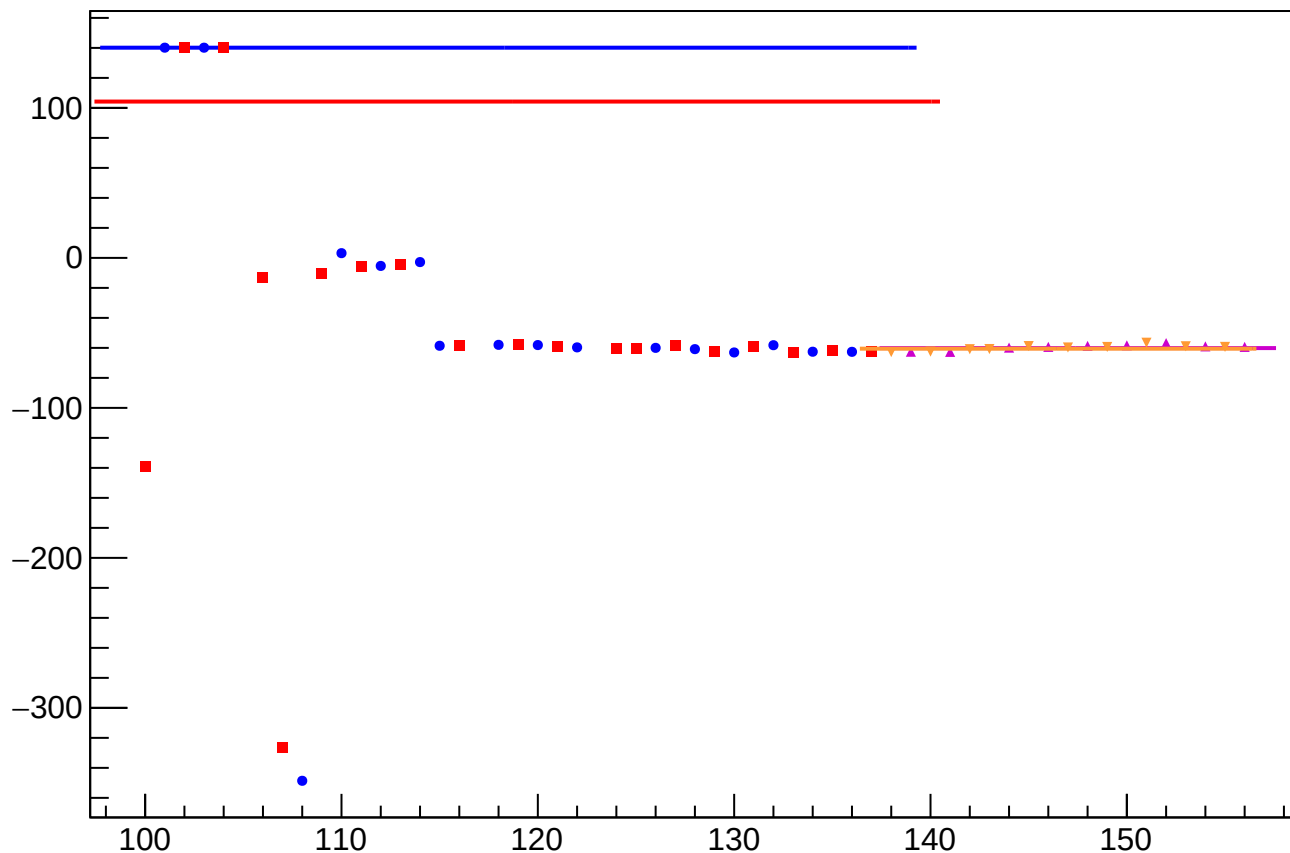
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 19299624.2/34

In: 0.003 $\pm$ 0.000 χ^2 /NDF:22311356.8/24

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:22101688.9/28

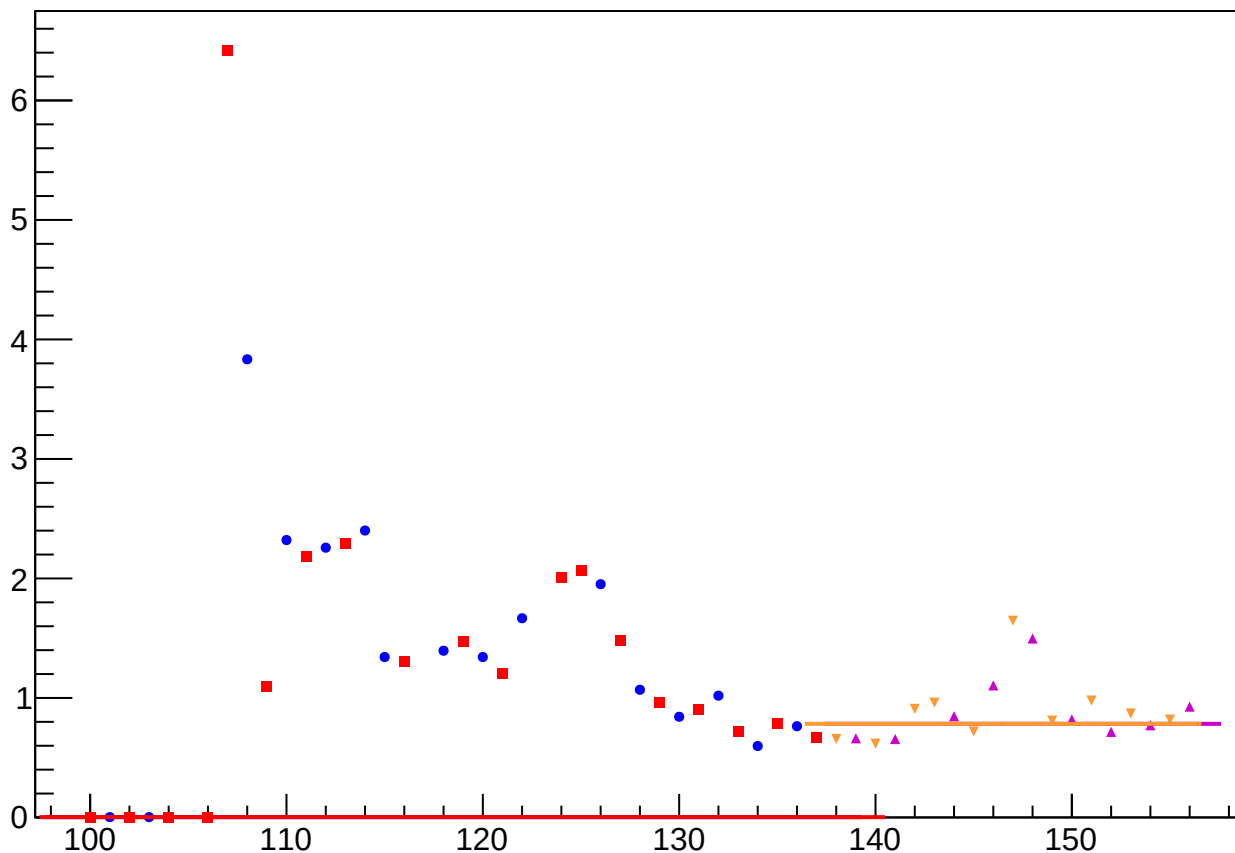
All: 0.003 $\pm$ 0.000 χ^2 /NDF: 44413265.3/53

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 140.143+/-0.000 χ^2/NDF : 187461723281.9/15
 Left Out: -60.524+/-0.000 χ^2/NDF : 360171107.4/9
 Right Out: 104.224+/-0.000 χ^2/NDF : 1257401882577977.0/18
 Left In: -60.135+/-0.000 χ^2/NDF : 45447404.3/8
 Left: -60.327+/-0.000 χ^2/NDF : 82189219.6/18
 Right: 120.832+/-0.000 χ^2/NDF : 138089570604348
 In: 140.133+/-0.000 χ^2/NDF : 574859440009.5/24
 Out: 104.217+/-0.000 χ^2/NDF : 1257658993184229
 All: 120.823+/-0.000 χ^2/NDF : 138152355523

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 10578723.1/15

Left Out: 0.784+/-0.000 χ^2/NDF : 692471.1/9

Right Out: 0.003+/-0.000 χ^2/NDF : 10266772.6/18

Left In: 0.783+/-0.000 χ^2/NDF : 597212.0/8

Left: 0.783+/-0.000 χ^2/NDF : 1289683.4/18

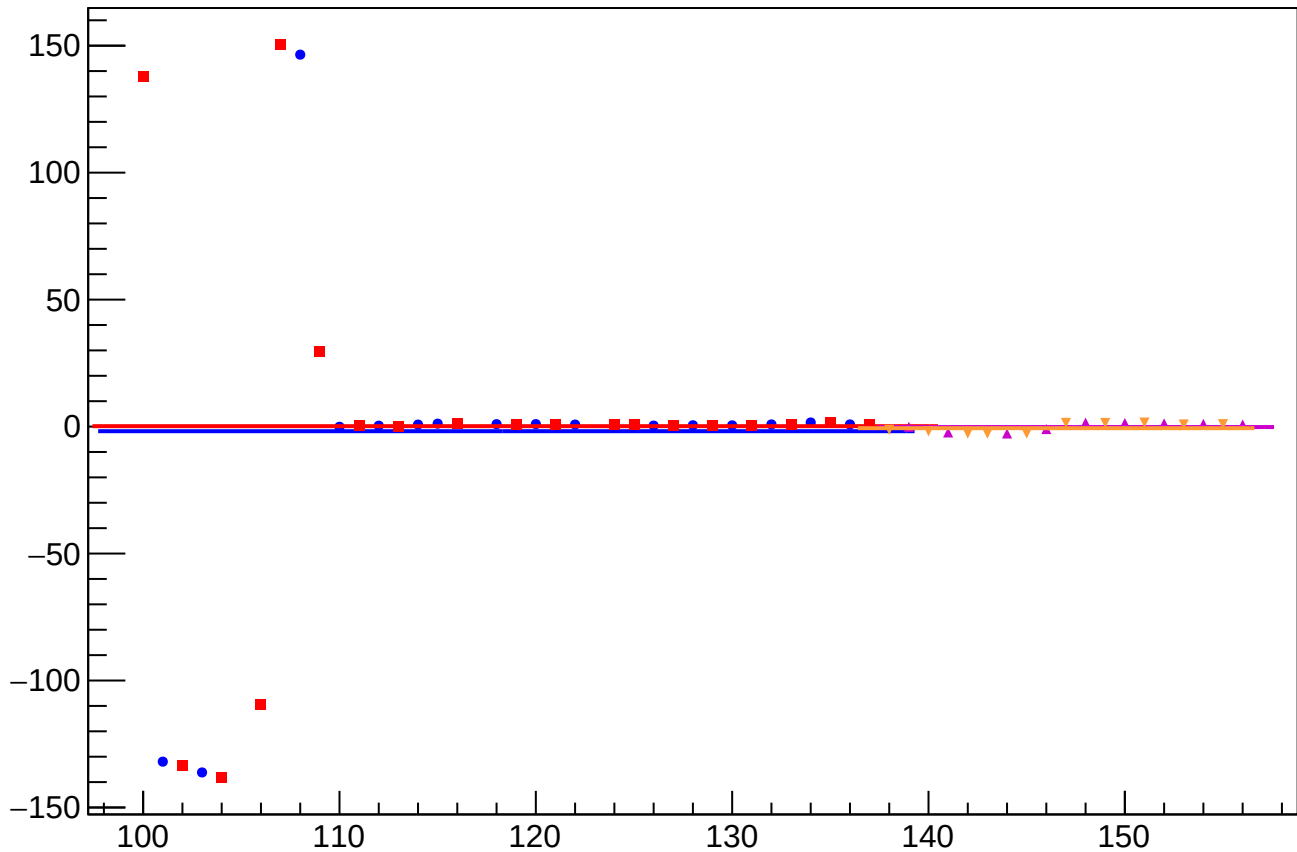
Right: 0.003+/-0.000 χ^2/NDF : 20845702.5/34

In: 0.003+/-0.000 χ^2/NDF : 22947294.3/24

Out: 0.003+/-0.000 χ^2/NDF : 22510279.8/28

All: 0.003+/-0.000 χ^2/NDF : 45457872.6/53

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -1.818+/-0.000 χ^2/NDF : 9887177310.2/15

Left Out: -0.630+/-0.000 χ^2/NDF : 76434206.5/9

Right Out: 0.165+/-0.000 χ^2/NDF : 3611245020.0/18

Left In: -0.183+/-0.000 χ^2/NDF : 57367156.1/8

Left: -0.416+/-0.000 χ^2/NDF : 135892712.0/18

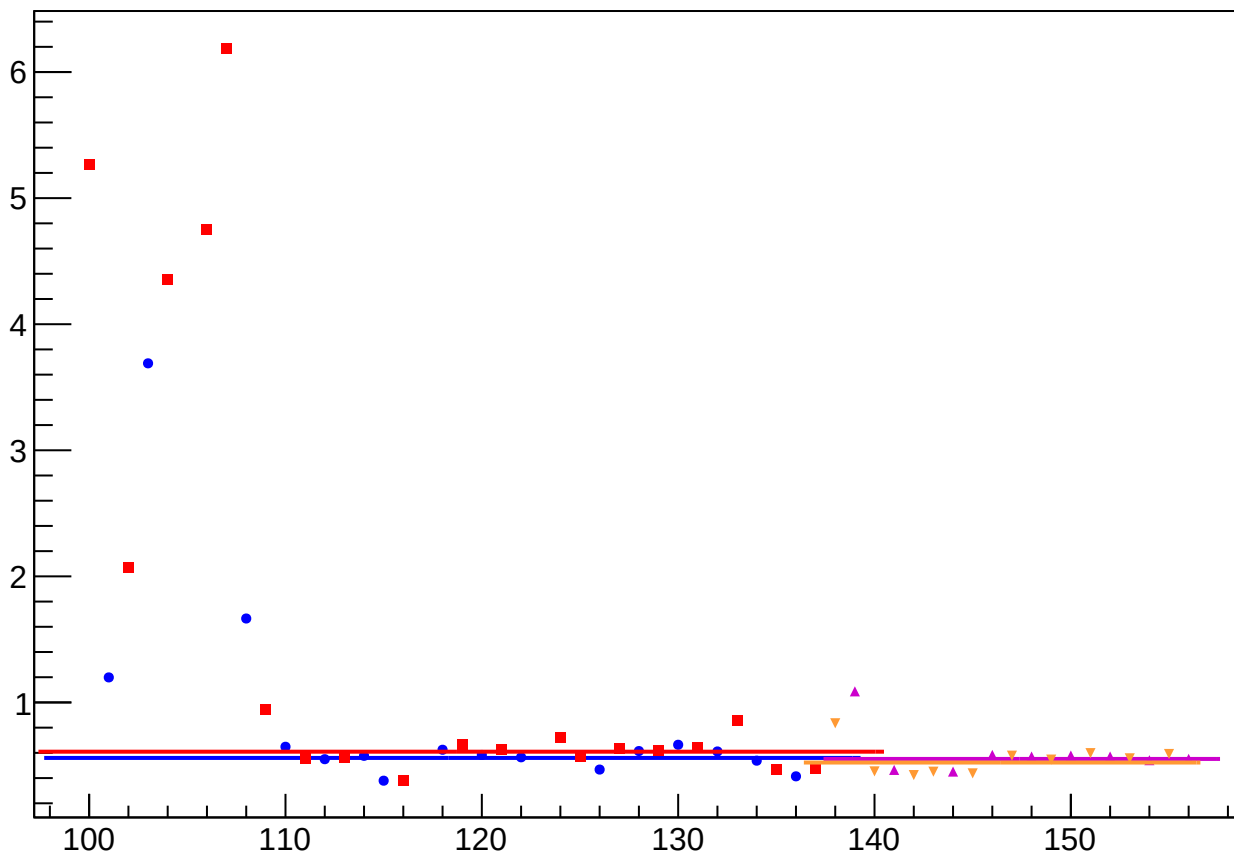
Right: -0.919+/-0.000 χ^2/NDF : 13527173630.8/34

In: -0.912+/-0.000 χ^2/NDF : 9968441973.5/24

Out: -0.327+/-0.000 χ^2/NDF : 3692916709.2/28

All: -0.624+/-0.000 χ^2/NDF : 13667445866.3/40

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.560 $\pm$ 0.000 χ^2 /NDF: 1598439.5/15

Left Out: 0.523 $\pm$ 0.000 χ^2 /NDF:379381.3/9

Right Out: 0.609 $\pm$ 0.000 χ^2 /NDF: 2476010.3/18

Left In: 0.552 $\pm$ 0.000 χ^2 /NDF:526984.8/8

Left: 0.537 $\pm$ 0.000 χ^2 /NDF: 923284.2/18

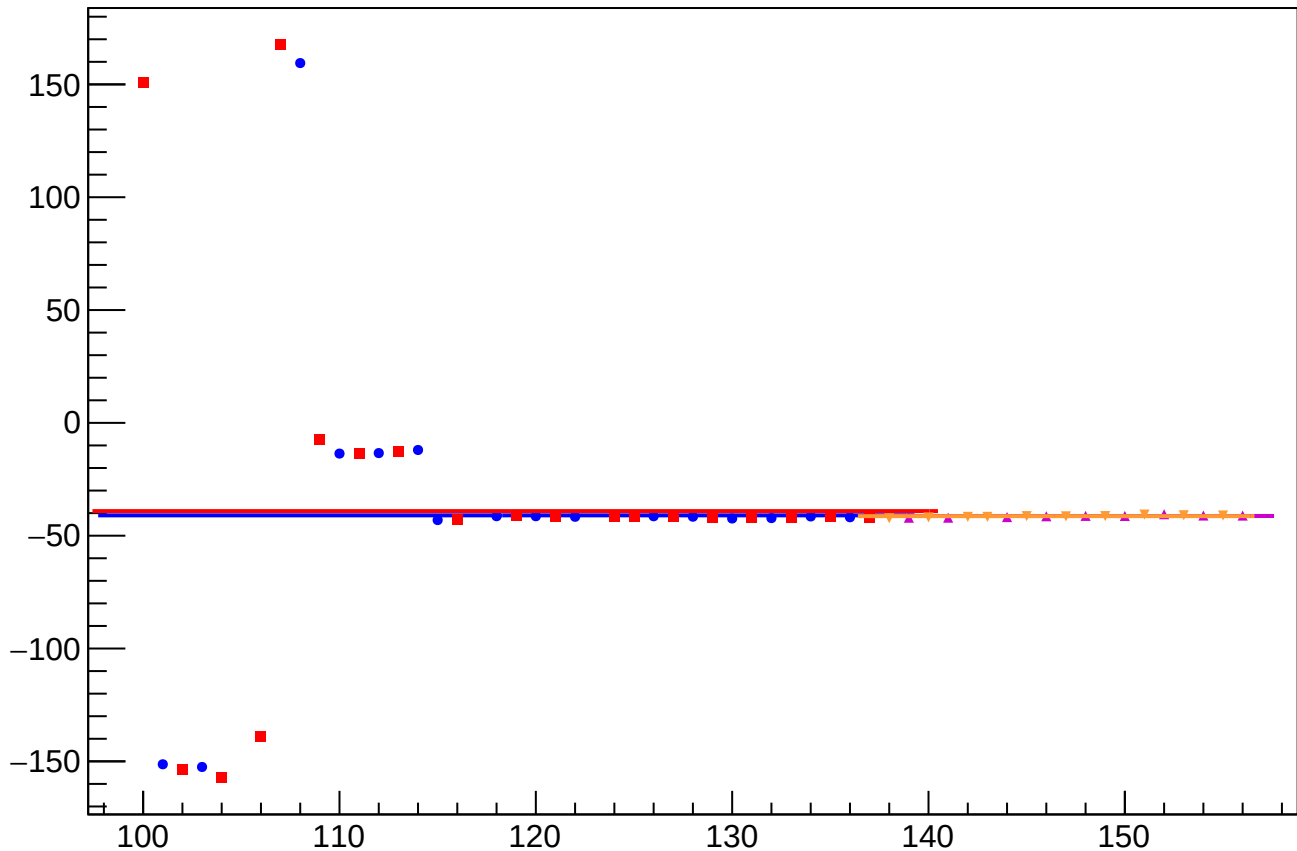
Right: 0.582 $\pm$ 0.000 χ^2 /NDF: 4110324.4/34

In: 0.555 $\pm$ 0.000 χ^2 /NDF:2126562.8/24

Out: 0.556 $\pm$ 0.000 χ^2 /NDF:2977891.6/28

All: 0.556 $\pm$ 0.000 χ^2 /NDF: 5104472.7/53

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -40.987+/-0.000 χ^2/NDF : 3449622021.8/15

Left Out: -41.339+/-0.000 χ^2/NDF : 9069132.7/9

Right Out: -39.101+/-0.000 χ^2/NDF : 2480133442.0/18

Left In: -41.265+/-0.000 χ^2/NDF : 11978422.0/8

Left: -41.302+/-0.000 χ^2/NDF : 21209790.6/18

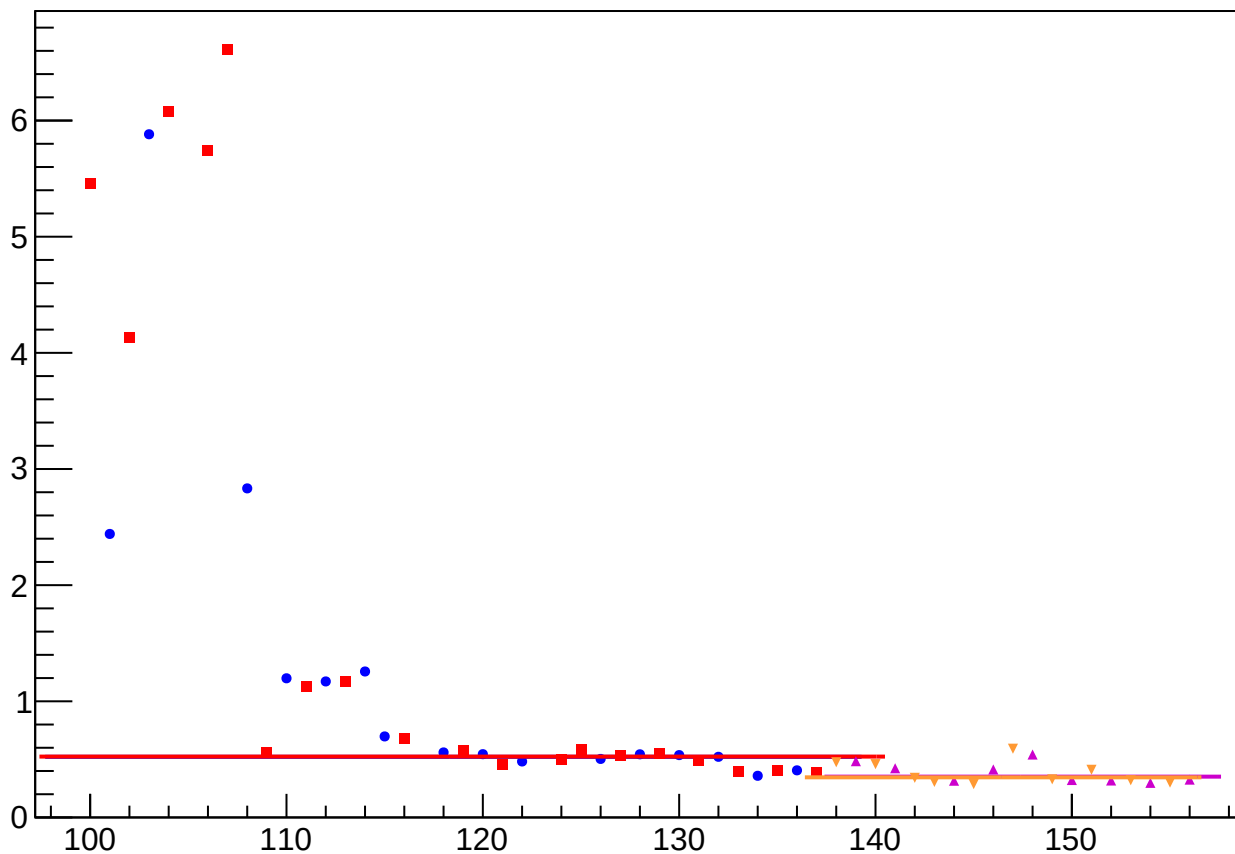
Right: -40.058+/-0.000 χ^2/NDF : 5962079351.2/34

In: -41.197+/-0.000 χ^2/NDF : 3462678077.8/24

Out: -40.820+/-0.000 χ^2/NDF : 2558077066.8/28

All: -41.007+/-0.000 χ^2/NDF : 6026223352.0/40

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.522+/-0.000 χ^2/NDF : 2949327.6/15

Left Out: 0.345+/-0.000 χ^2/NDF : 649379.1/9

Right Out: 0.524+/-0.000 χ^2/NDF : 3264460.0/18

Left In: 0.351+/-0.000 χ^2/NDF : 508604.8/8

Left: 0.348+/-0.000 χ^2/NDF : 1160054.7/18

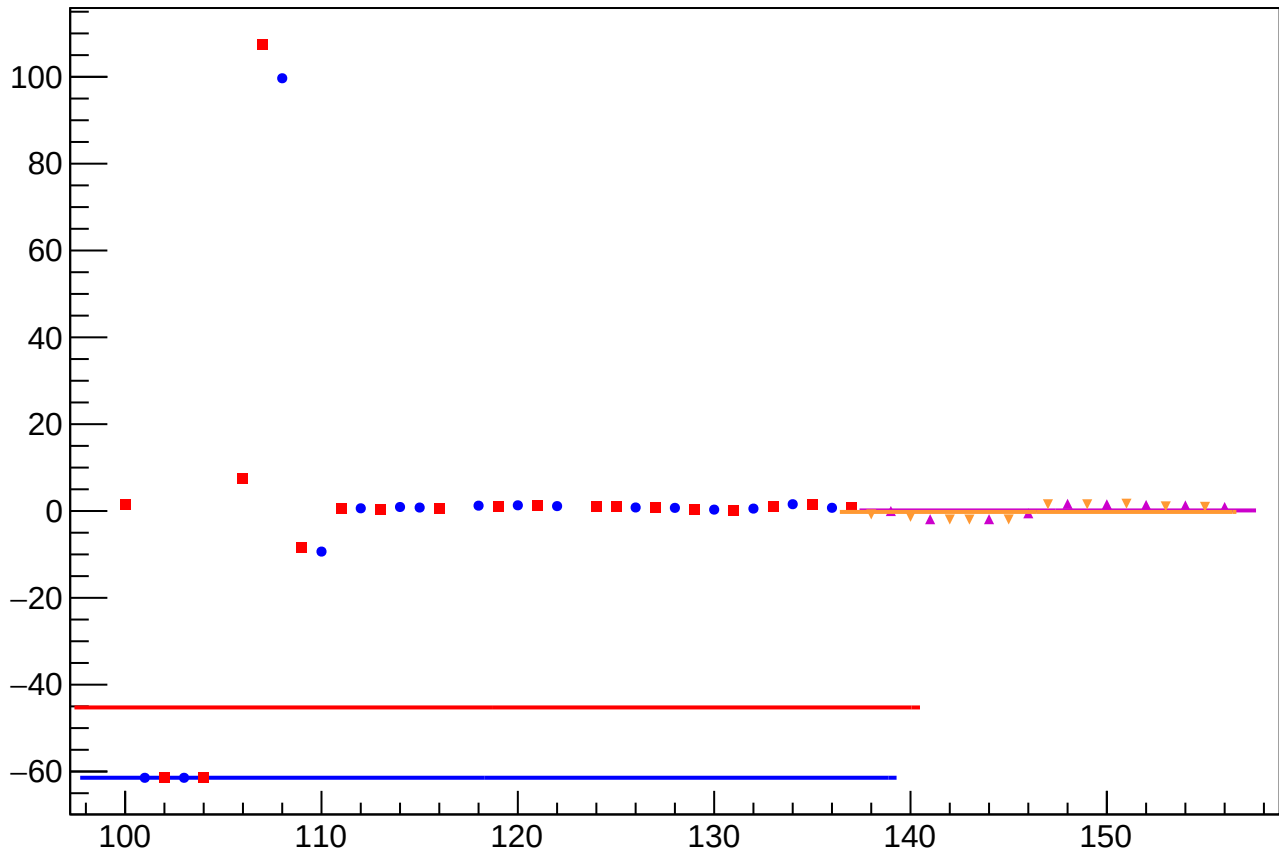
Right: 0.523+/-0.000 χ^2/NDF : 6213857.4/34

In: 0.393+/-0.000 χ^2/NDF : 4272164.5/24

Out: 0.387+/-0.000 χ^2/NDF : 4790370.6/28

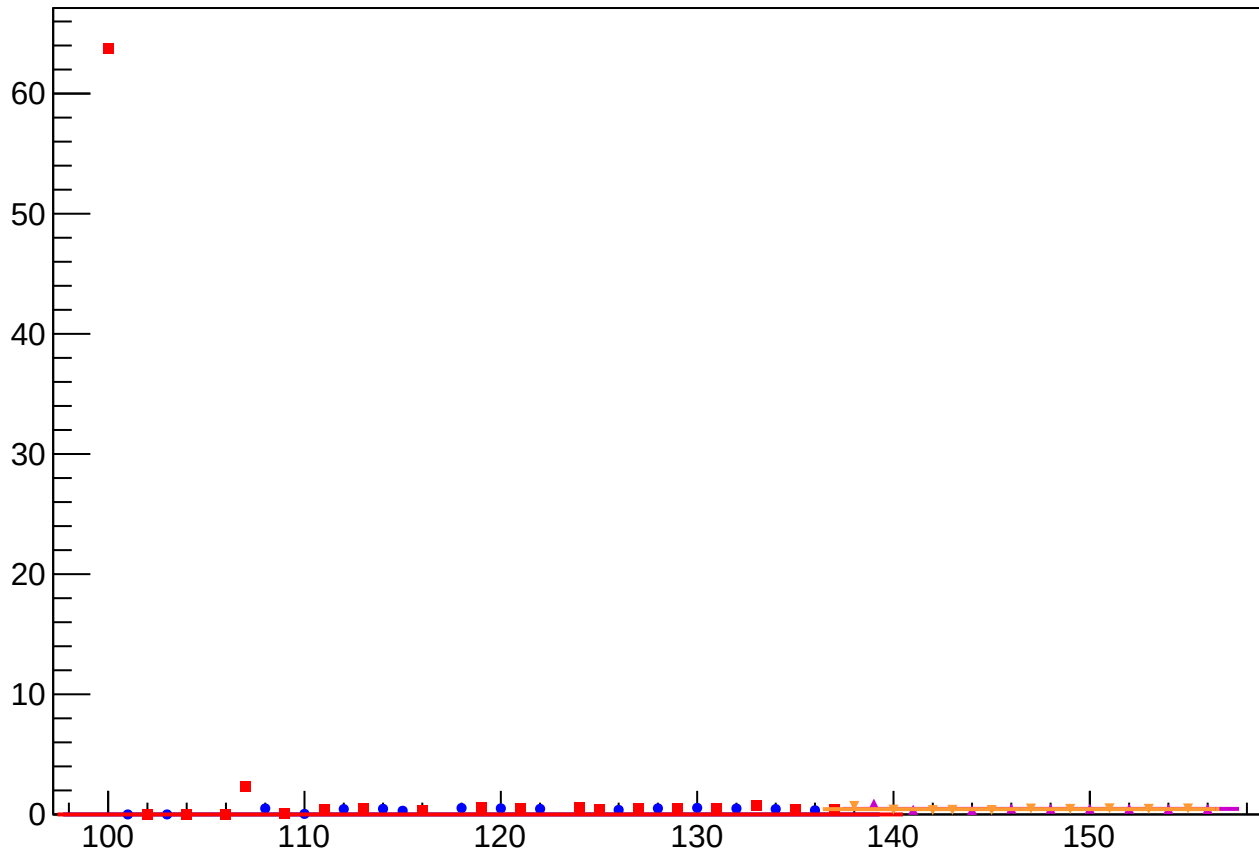
All: 0.390+/-0.000 χ^2/NDF : 9065146.4/53

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -61.436 ± 0.000 $\chi^2/\text{NDF}: 273496278670.9/15$
 Left Out: -0.215 ± 0.000 $\chi^2/\text{NDF}: 75348428.4/9$
 Right Out: -45.245 ± 0.000 $\chi^2/\text{NDF}: 357870328061478.0/18$
 Left In: 0.132 ± 0.000 $\chi^2/\text{NDF}: 61235084.9/8$
 All: -52.745 ± 0.000 $\chi^2/\text{NDF}: 409286020593$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 9156181.6/15

Left Out: 0.443+/-0.000 χ^2/NDF : 375527.8/9

Right Out: 0.001+/-0.000 χ^2/NDF : 9345109.5/18

Left In: 0.463+/-0.000 χ^2/NDF : 522659.9/8

Left: 0.453+/-0.000 χ^2/NDF : 910746.6/18

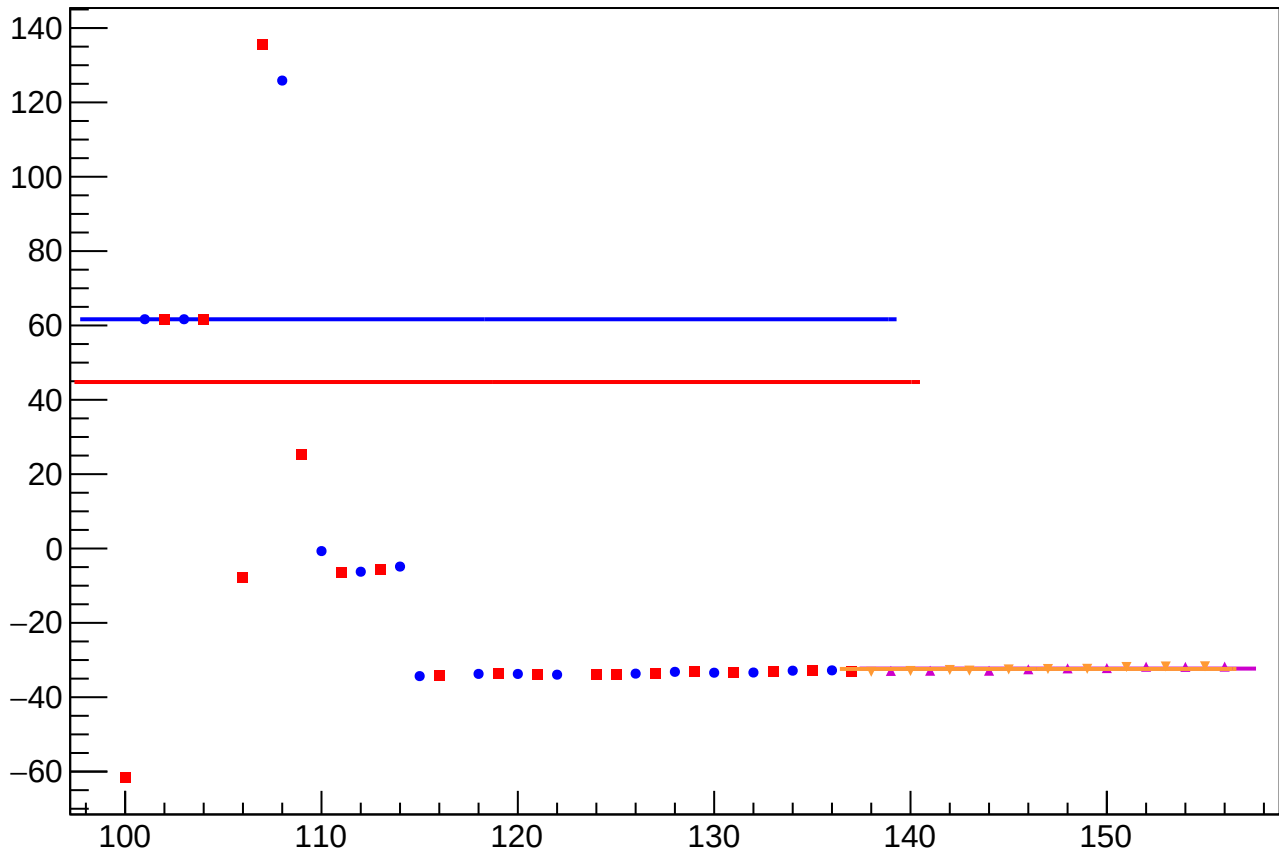
Right: 0.001+/-0.000 χ^2/NDF : 18501293.3/34

In: 0.002+/-0.000 χ^2/NDF : 21825906.9/24

Out: 0.001+/-0.000 χ^2/NDF : 21612862.1/28

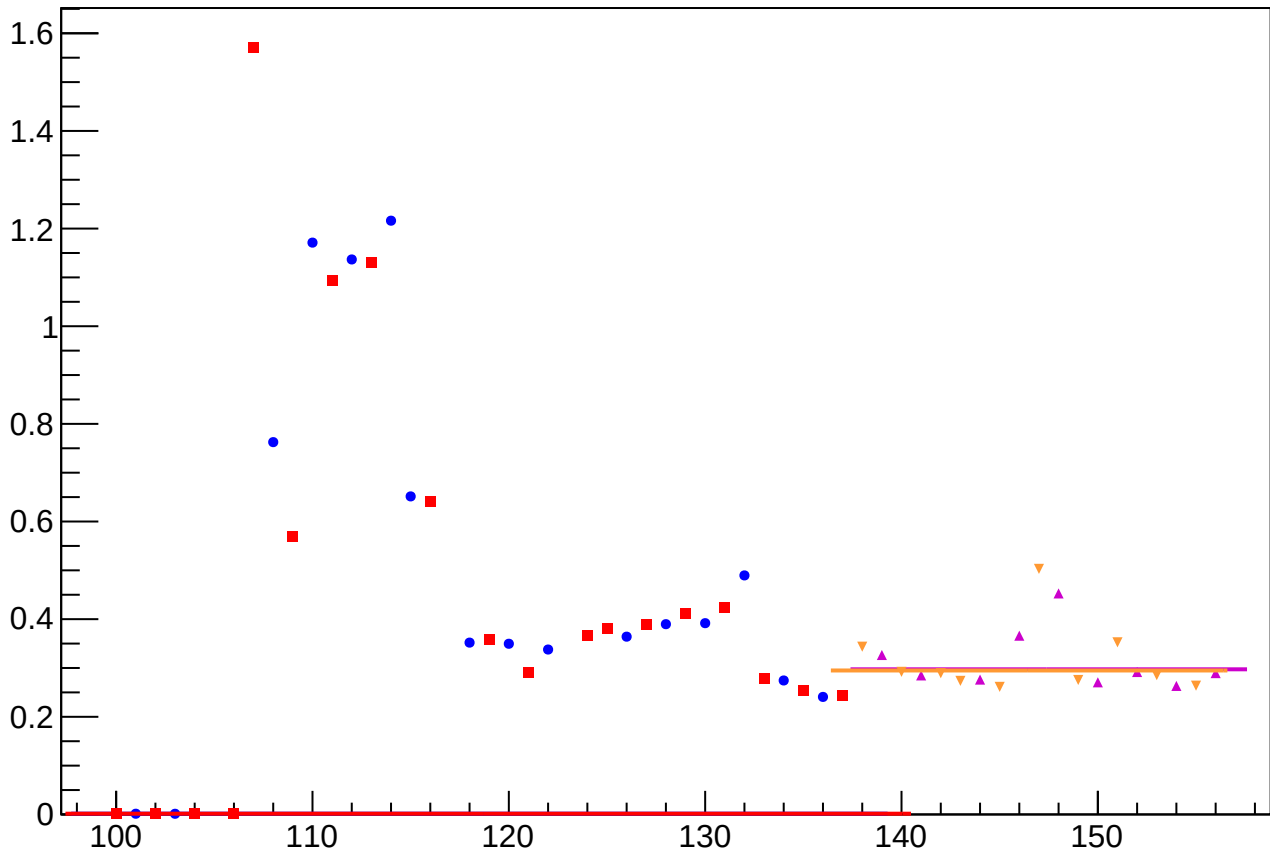
All: 0.001+/-0.000 χ^2/NDF : 43438785.8/53

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 61.662 +/- 0.000 χ^2/NDF : 369463062074.0/15
 Left Out: -32.393 +/- 0.000 χ^2/NDF : 20854939.1/9
 Right Out: 44.786 +/- 0.000 χ^2/NDF : 366094778229951.8/18
 Left In: -32.301 +/- 0.000 χ^2/NDF : 18418768.2/8
 All: 52.669 +/- 0.000 χ^2/NDF : 4187790539677.0/33

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11024564.1/15

Left Out: 0.295+/-0.000 χ^2/NDF :413241.1/9

Right Out: 0.002+/-0.000 χ^2/NDF : 10559220.1/18

Left In: 0.297+/-0.000 χ^2/NDF :318754.9/8

Left: 0.296+/-0.000 χ^2/NDF : 732472.1/18

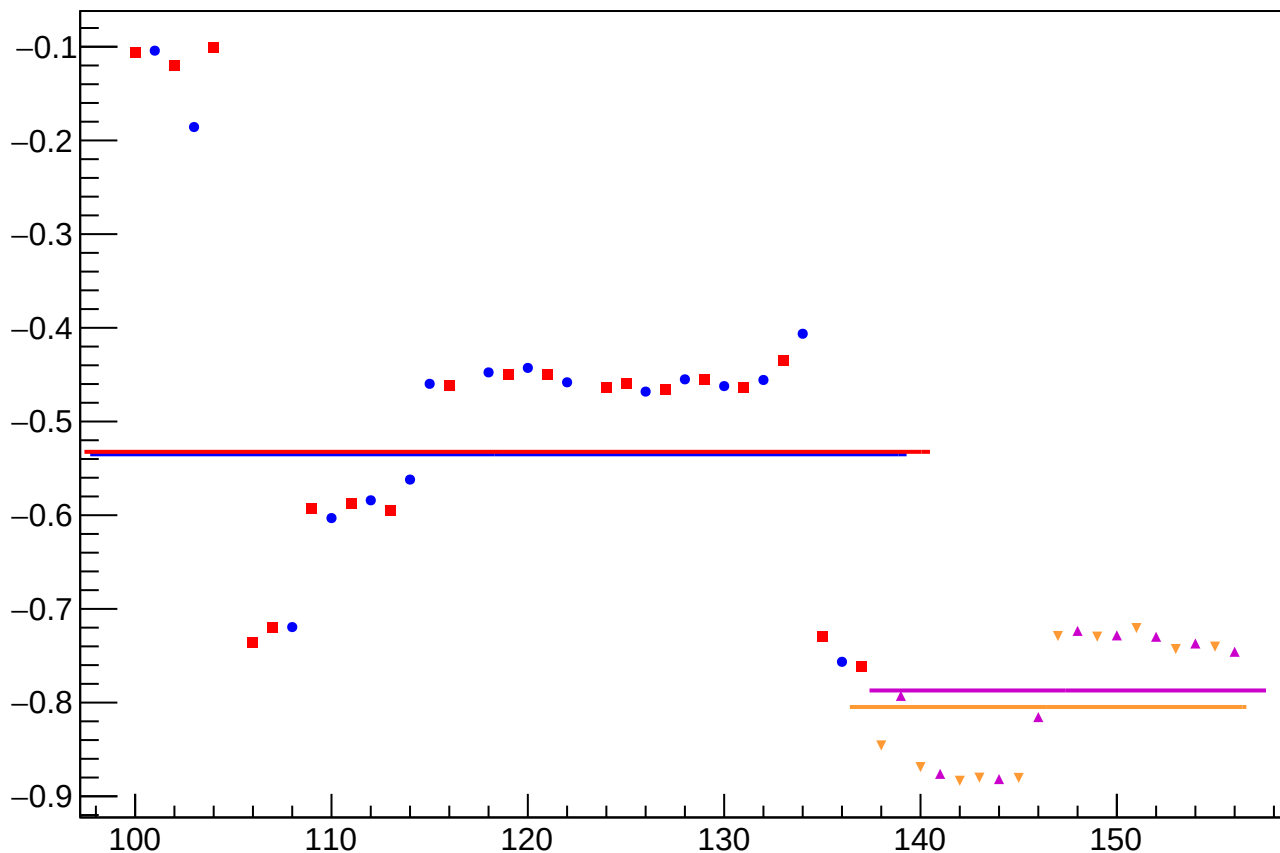
Right: 0.002+/-0.000 χ^2/NDF : 21583912.3/34

In: 0.002+/-0.000 χ^2/NDF :25948015.3/24

Out: 0.002+/-0.000 χ^2/NDF :25427799.5/28

All: 0.002+/-0.000 χ^2/NDF : 51375850.9/53

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.535+/-0.000 χ^2/NDF : 300846309.5/15

Left Out: -0.805+/-0.000 χ^2/NDF : 84467769.6/9

Right Out: -0.532+/-0.000 χ^2/NDF : 214124648.5/18

Left In: -0.787+/-0.000 χ^2/NDF : 64899691.5/8

Left: -0.796+/-0.000 χ^2/NDF : 151821760.4/18

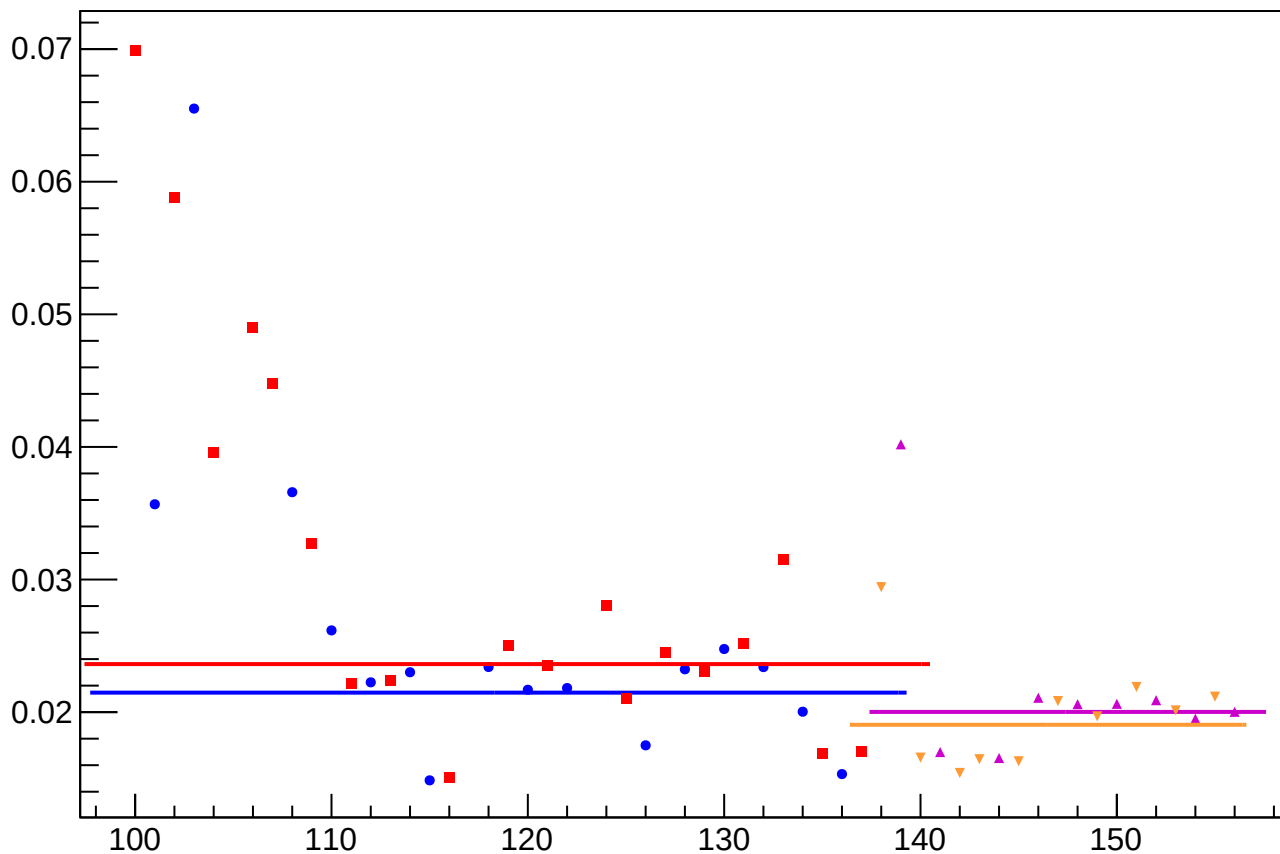
Right: -0.534+/-0.000 χ^2/NDF : 515008587.7/34

In: -0.678+/-0.000 χ^2/NDF : 784266349.7/24

Out: -0.702+/-0.000 χ^2/NDF : 759402481.6/28

All: -0.690+/-0.000 χ^2/NDF : 1551228745.1/5

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 : 333901.1/9

Right Out: 0.024+/-0.000 χ^2/NDF : 1277268.6/18

Left In: 0.020+/-0.000 χ^2/NDF : 530083.9/8

Left: 0.020+/-0.000 χ^2/NDF : 878822.3/18

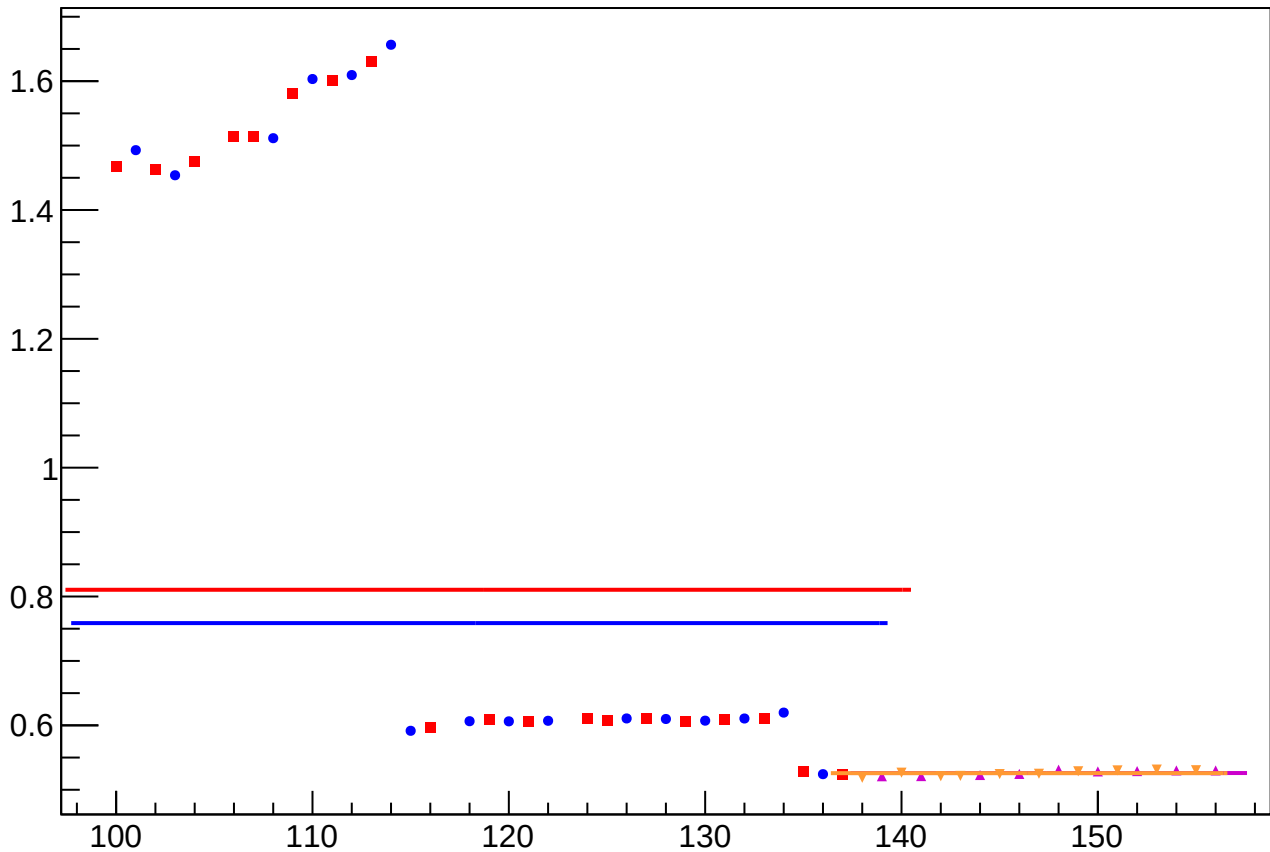
Right: 0.022+/-0.000 χ^2/NDF : 2481109.4/34

In: 0.021+/-0.000 χ^2/NDF : 1711920.3/24

Out: 0.021+/-0.000 χ^2/NDF : 1871474.0/28

All: 0.021+/-0.000 χ^2/NDF : 3583859.9/53

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.759 $\pm$ 0.000 χ^2 /NDF: 4304169889.2/15

Left Out: 0.526 $\pm$ 0.000 χ^2 /NDF:878260.4/9

Right Out: 0.810 $\pm$ 0.000 χ^2 /NDF: 4769381416.8/18

Left In: 0.526 $\pm$ 0.000 χ^2 /NDF:700365.7/8

Left: 0.526 $\pm$ 0.000 χ^2 /NDF: 1579550.7/18

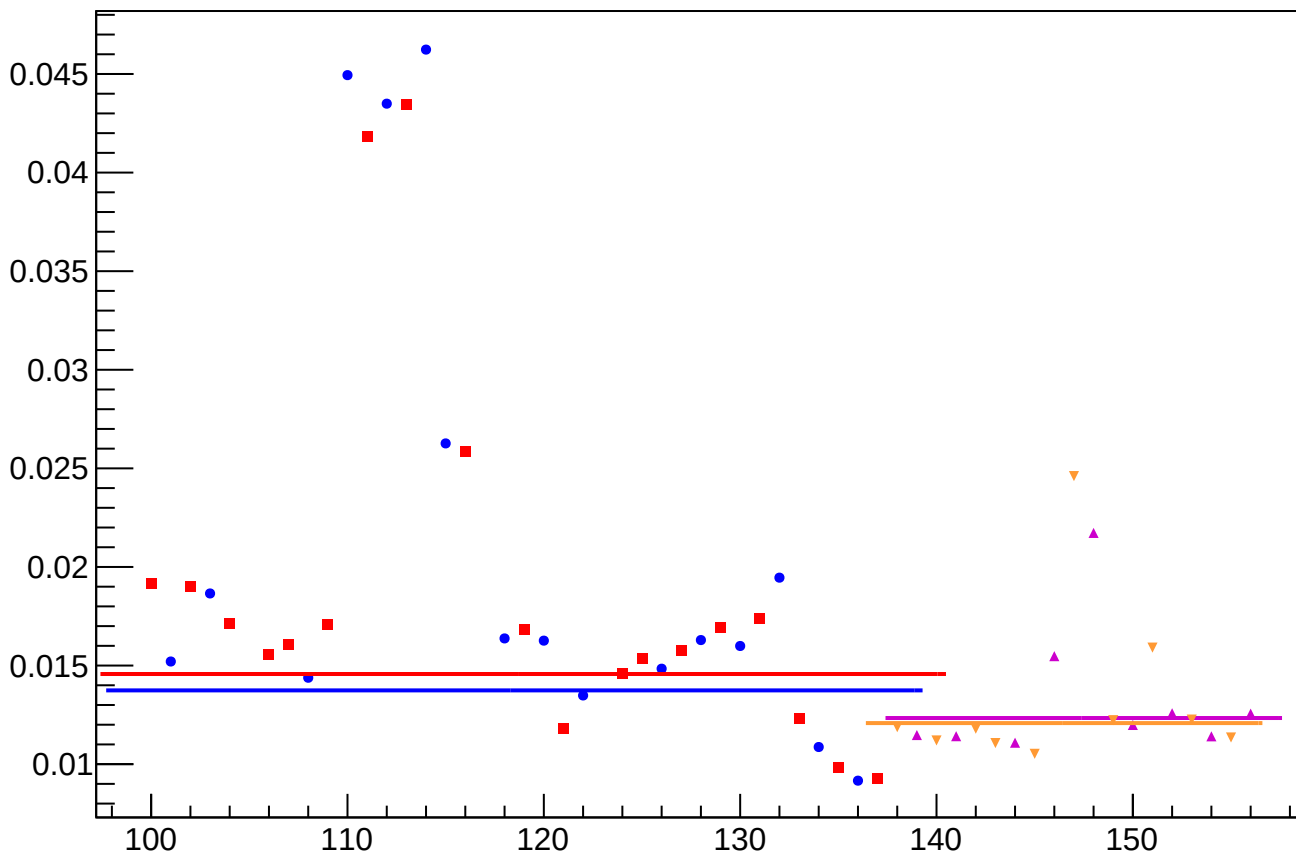
Right: 0.784 $\pm$ 0.000 χ^2 /NDF: 9114268233.2/34

In: 0.618 $\pm$ 0.000 χ^2 /NDF:5337176570.0/24

Out: 0.632 $\pm$ 0.000 χ^2 /NDF:6266674747.7/28

All: 0.625 $\pm$ 0.000 χ^2 /NDF: 11611088296.7/5

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1649769.2/15

Left Out: 0.012+/-0.000 χ^2/NDF :566598.1/9

Right Out: 0.015+/-0.000 χ^2/NDF : 1455054.4/18

Left In: 0.012+/-0.000 χ^2/NDF :415924.8/8

Left: 0.012+/-0.000 χ^2/NDF : 985755.0/18

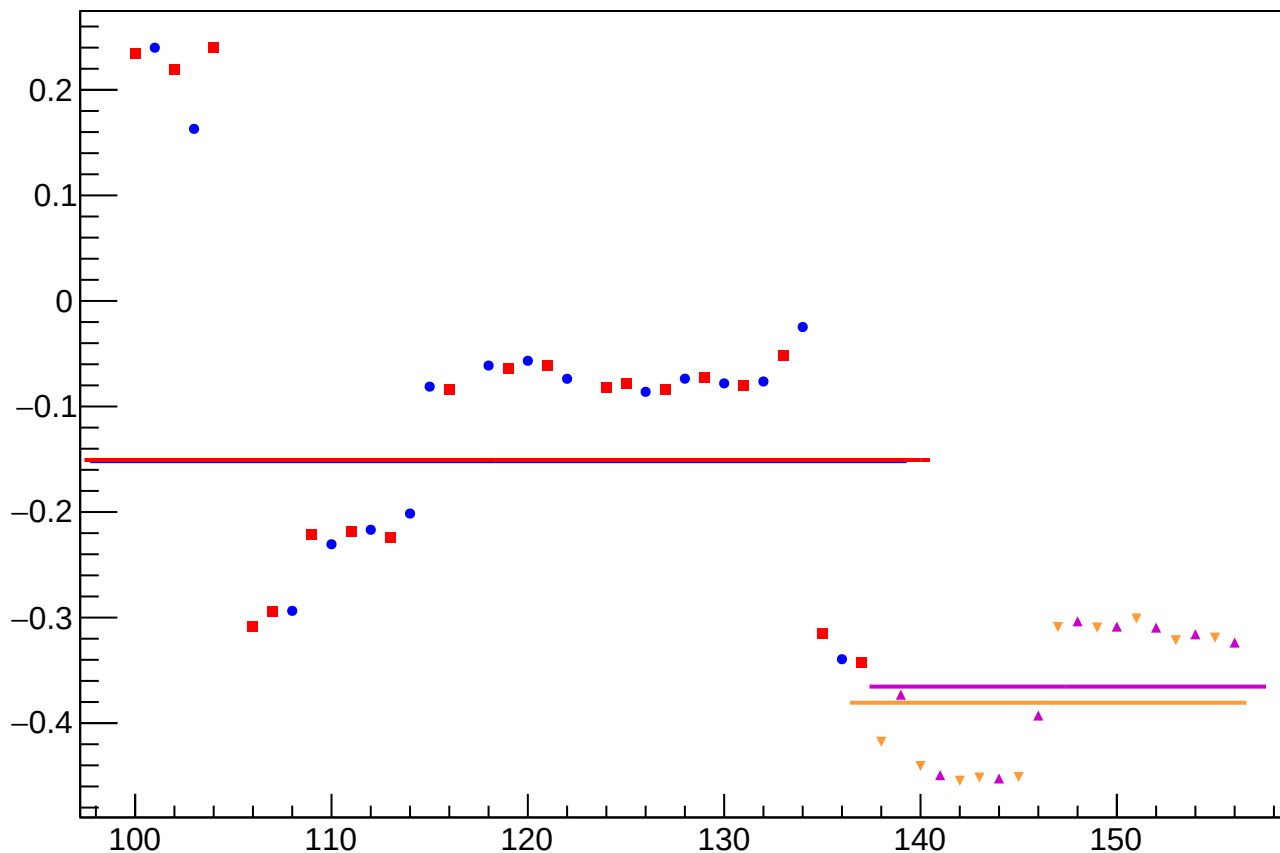
Right: 0.014+/-0.000 χ^2/NDF : 3125814.5/34

In: 0.013+/-0.000 χ^2/NDF :2140525.7/24

Out: 0.013+/-0.000 χ^2/NDF :2250424.7/28

All: 0.013+/-0.000 χ^2/NDF : 4391970.8/53

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.152+/-0.000 χ^2/NDF : 276791709.3/15

Left Out: -0.381+/-0.000 χ^2/NDF : 82811823.2/9

Right Out: -0.151+/-0.000 χ^2/NDF : 199410234.4/18

Left In: -0.365+/-0.000 χ^2/NDF : 66133906.8/8

Left: -0.373+/-0.000 χ^2/NDF : 150985562.8/18

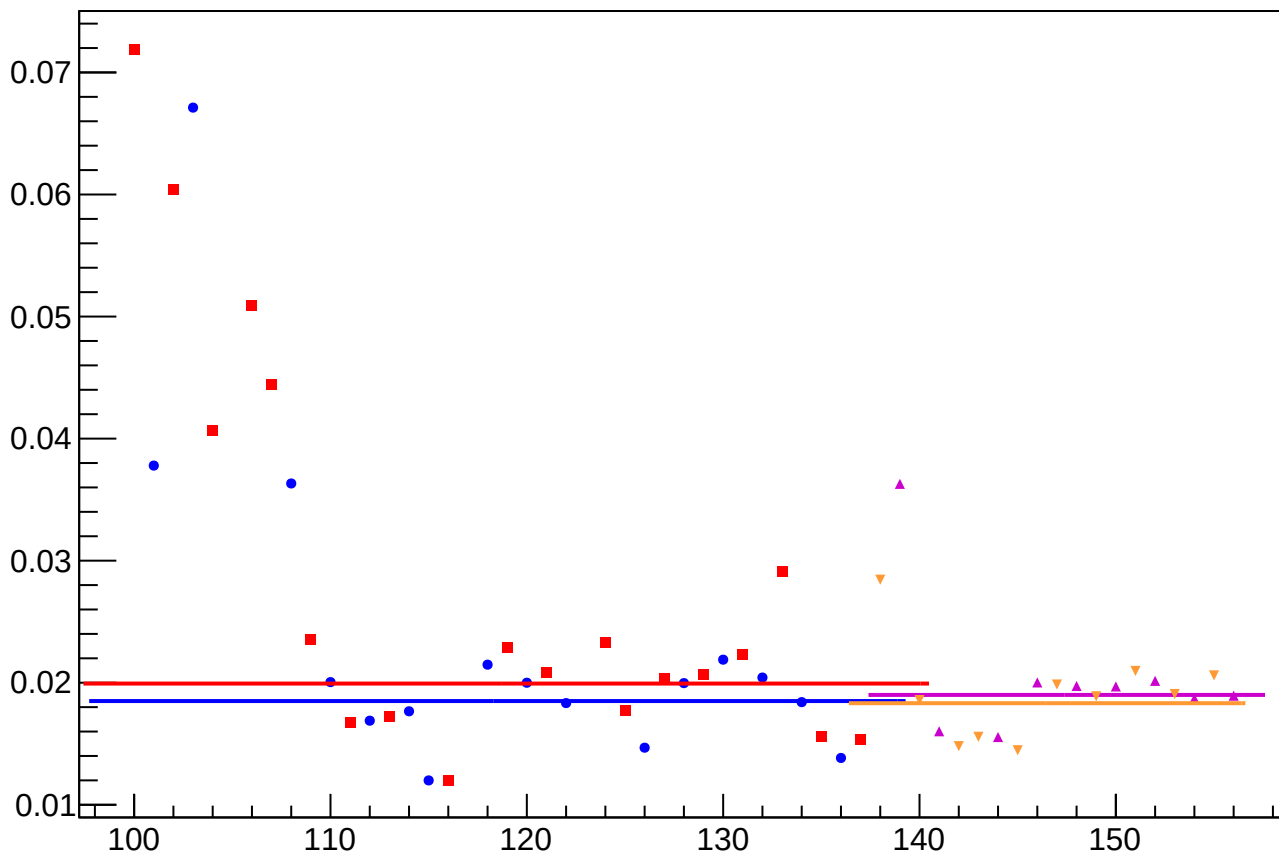
Right: -0.151+/-0.000 χ^2/NDF : 476210345.8/34

In: -0.264+/-0.000 χ^2/NDF : 711881626.4/24

Out: -0.281+/-0.000 χ^2/NDF : 693508879.5/28

All: -0.272+/-0.000 χ^2/NDF : 1410182378.0/5

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 1372359.1/15

Left Out: 0.018 $\pm$ 0.000 χ^2 /NDF:372337.8/9

Right Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 1547561.3/18

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:502793.1/8

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 883173.3/18

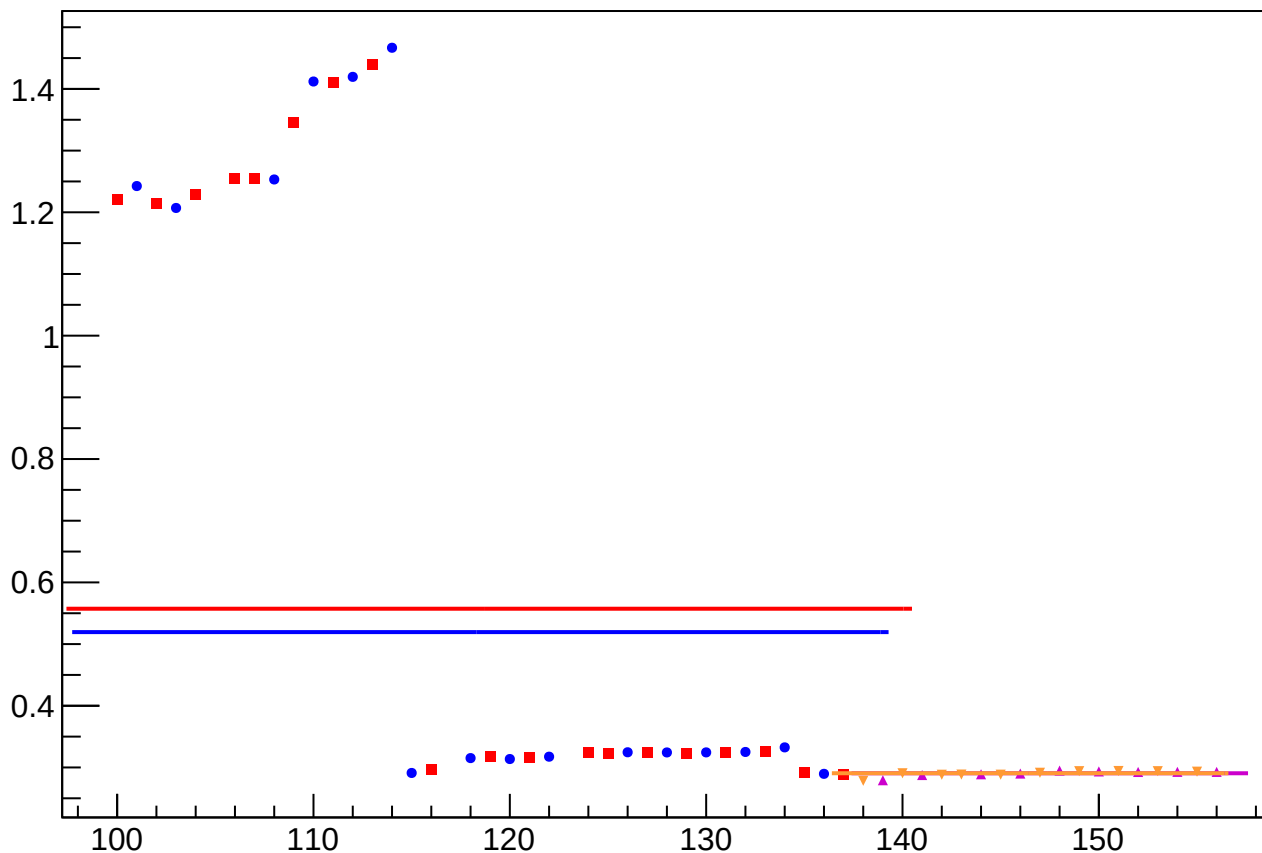
Right: 0.019 $\pm$ 0.000 χ^2 /NDF: 2949710.8/34

In: 0.019 $\pm$ 0.000 χ^2 /NDF:1879238.3/24

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:1960145.6/28

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 3841492.8/53

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.519+/-0.000 χ^2/NDF : 6319132275.3/15

Left Out: 0.291+/-0.000 χ^2/NDF :1012999.4/9

Right Out: 0.557+/-0.000 χ^2/NDF : 6746144835.5/18

Left In: 0.291+/-0.000 χ^2/NDF :1031017.5/8

Left: 0.291+/-0.000 χ^2/NDF : 2044043.3/18

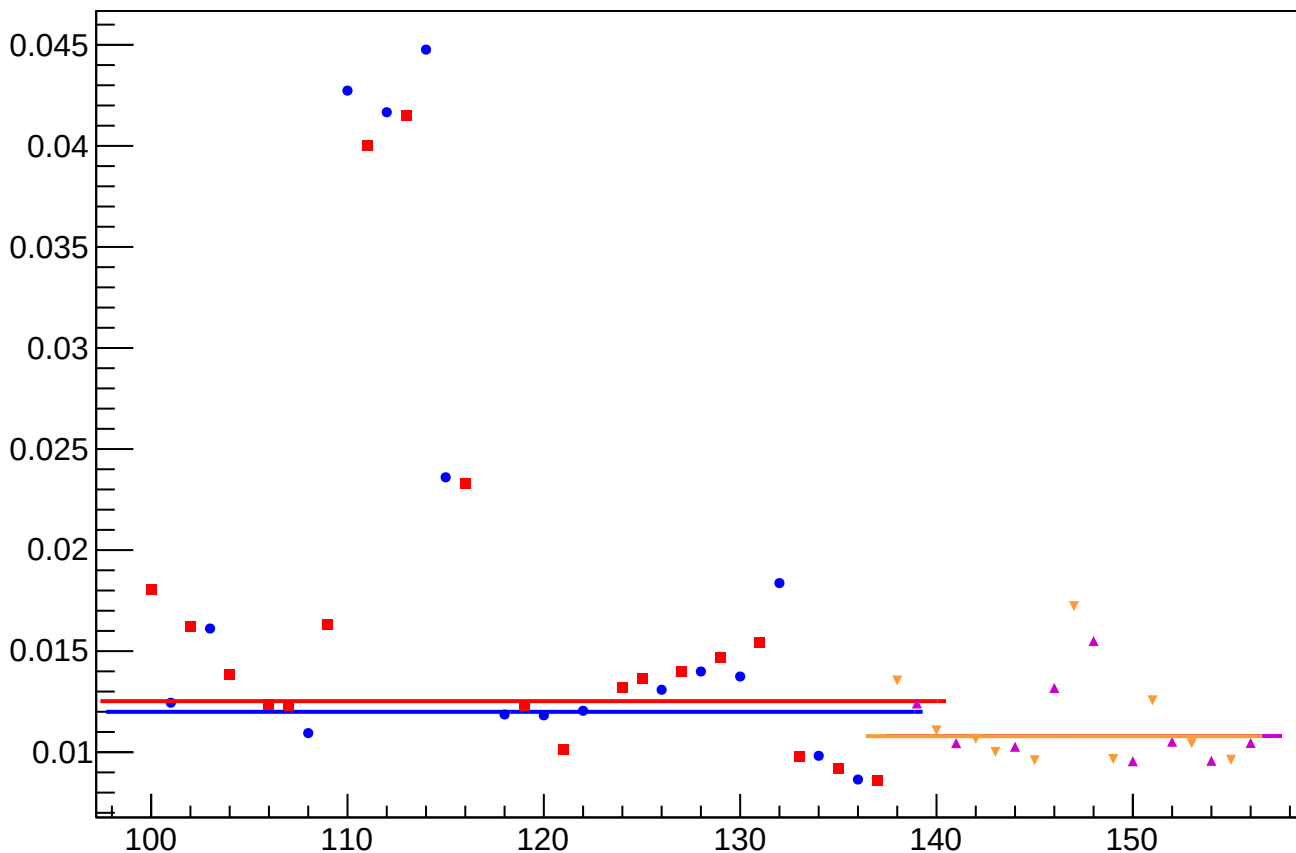
Right: 0.538+/-0.000 χ^2/NDF : 13094140546.7/34

In: 0.381+/-0.000 χ^2/NDF :7631189508.9/24

Out: 0.393+/-0.000 χ^2/NDF :8458713252.5/28

All: 0.387+/-0.000 χ^2/NDF : 16097128296.8/5

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1491608.2/15

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:398103.7/9

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1434210.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:295714.0/8

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 693821.8/18

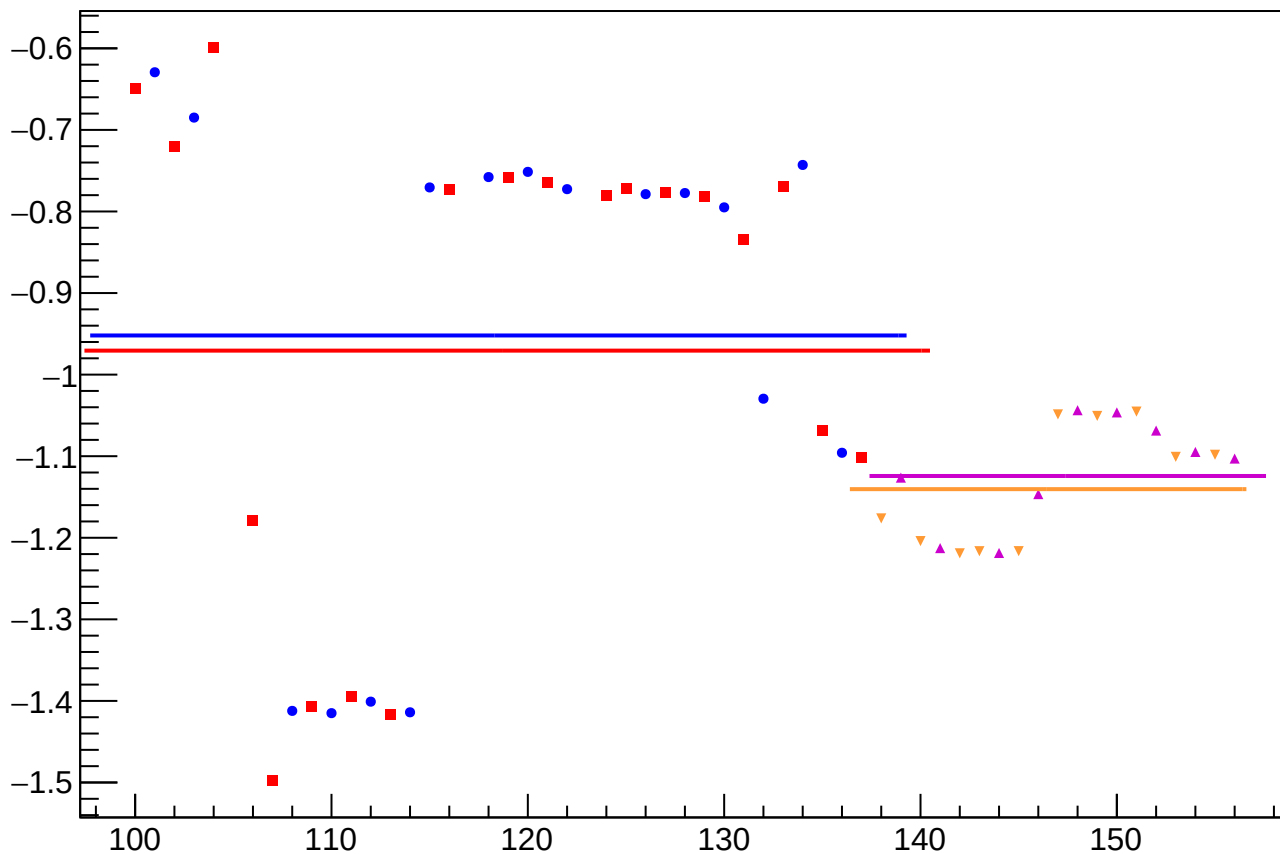
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2937026.7/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1858916.9/24

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1976665.7/28

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3839052.5/53

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.952+/-0.000 χ^2/NDF : 699468857.6/15

Left Out: -1.140+/-0.000 χ^2/NDF : 92616143.9/9

Right Out: -0.971+/-0.000 χ^2/NDF : 714505458.0/18

Left In: -1.124+/-0.000 χ^2/NDF : 70409853.3/8

Left: -1.133+/-0.000 χ^2/NDF : 165182937.5/18

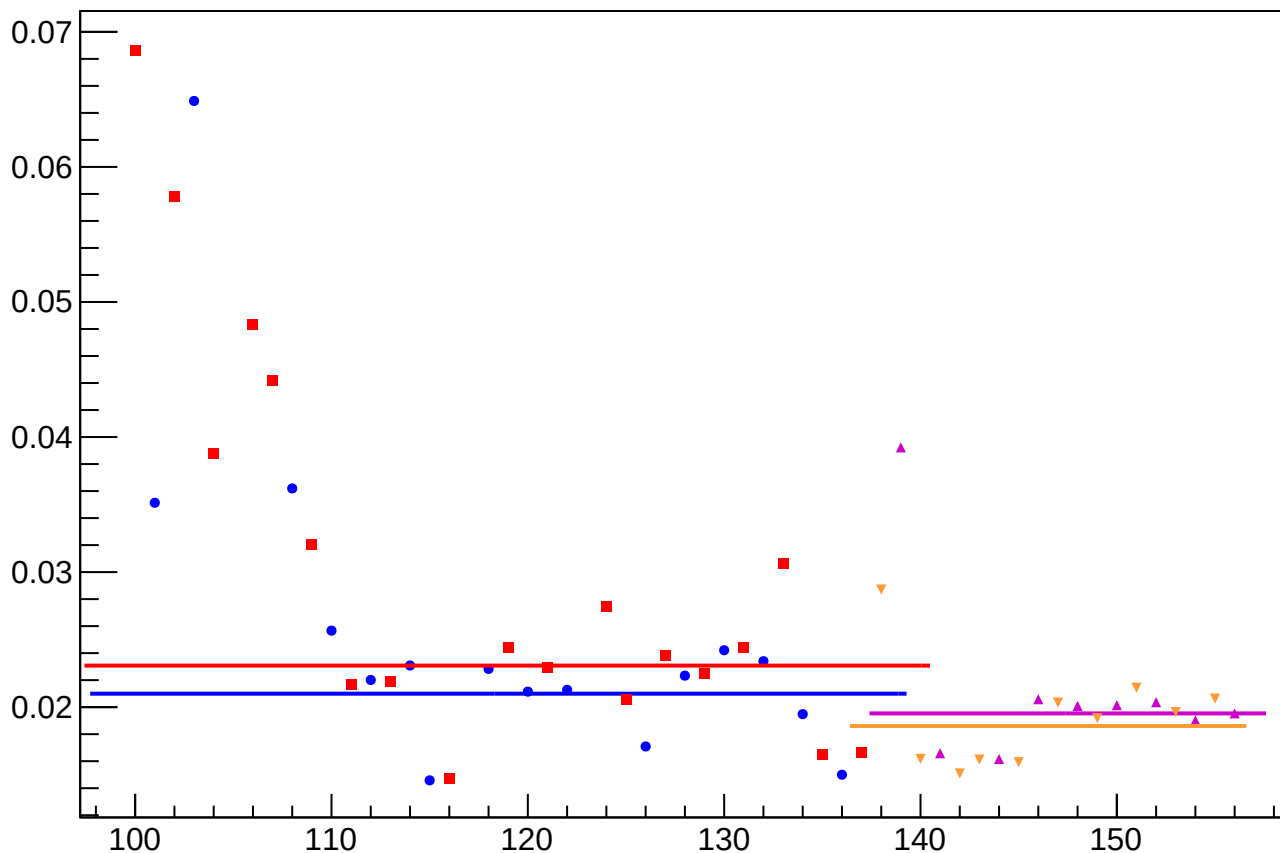
Right: -0.961+/-0.000 χ^2/NDF : 1415910427.1/34

In: -1.050+/-0.000 χ^2/NDF : 974485471.3/24

Out: -1.076+/-0.000 χ^2/NDF : 994521586.0/28

All: -1.063+/-0.000 χ^2/NDF : 1978765361.4/5

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 1166992.9/15

Left Out: 0.019+/-0.000 χ^2/NDF : 331324.9/9

Right Out: 0.023+/-0.000 χ^2/NDF : 1281311.4/18

Left In: 0.020+/-0.000 χ^2/NDF : 529092.8/8

Left: 0.019+/-0.000 χ^2/NDF : 874778.3/18

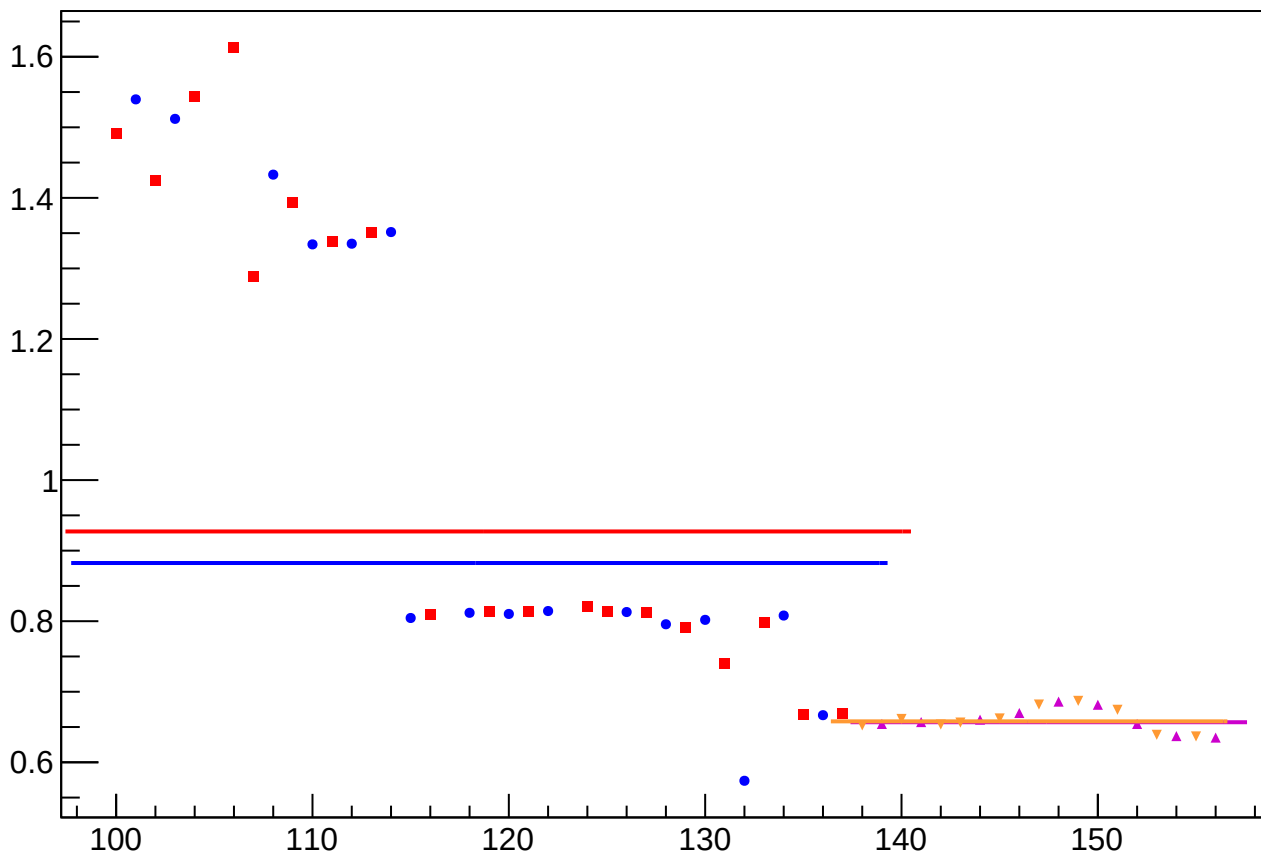
Right: 0.022+/-0.000 χ^2/NDF : 2496865.9/34

In: 0.020+/-0.000 χ^2/NDF : 1725473.7/24

Out: 0.020+/-0.000 χ^2/NDF : 1872421.4/28

All: 0.020+/-0.000 χ^2/NDF : 3598334.6/53

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.882 $\pm$ 0.000 χ^2 /NDF: 2784156746.4/15

Left Out: 0.658 $\pm$ 0.000 χ^2 /NDF: 11430813.8/9

Right Out: 0.927 $\pm$ 0.000 χ^2 /NDF: 2762998321.3/18

Left In: 0.657 $\pm$ 0.000 χ^2 /NDF: 10917330.6/8

Left: 0.657 $\pm$ 0.000 χ^2 /NDF: 22385024.7/18

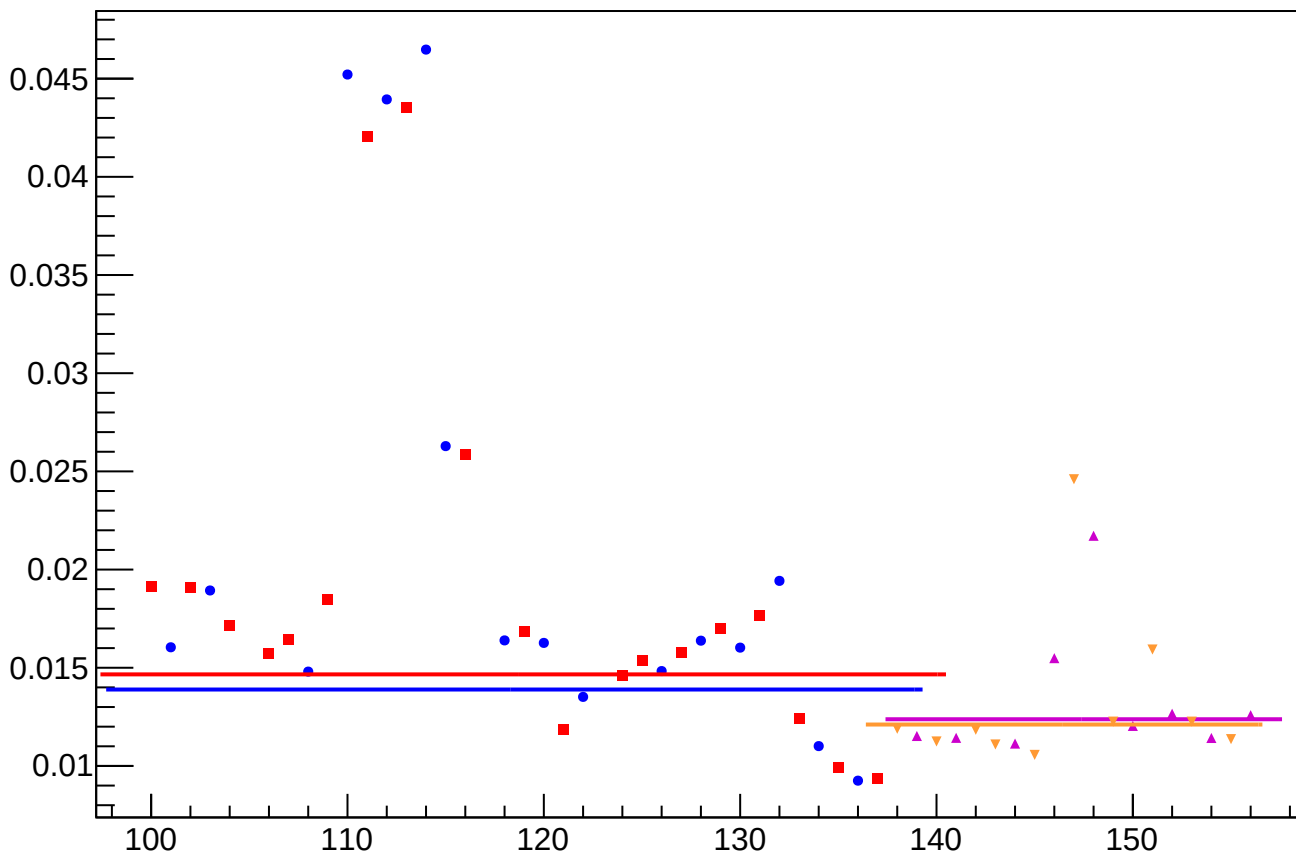
Right: 0.904 $\pm$ 0.000 χ^2 /NDF: 5576917007.9/34

In: 0.745 $\pm$ 0.000 χ^2 /NDF: 3747934133.0/24

Out: 0.757 $\pm$ 0.000 χ^2 /NDF: 4095247492.9/28

All: 0.751 $\pm$ 0.000 χ^2 /NDF: 7848999375.6/53

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 :562443.6/9

Right Out: 0.015+/-0.000 χ^2/NDF : 1467025.6/18

Left In: 0.012+/-0.000 χ^2/NDF :412321.0/8

Left: 0.012+/-0.000 χ^2/NDF : 978298.2/18

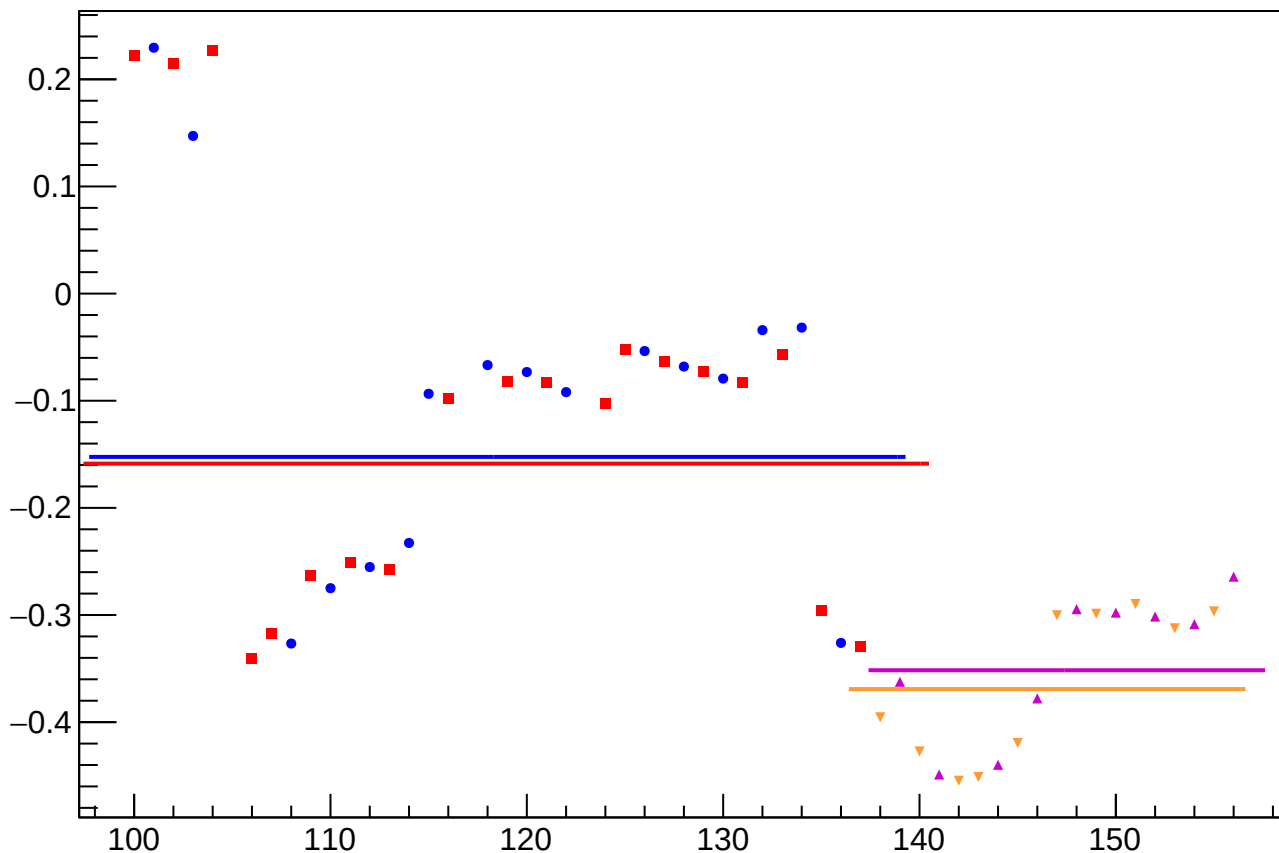
Right: 0.014+/-0.000 χ^2/NDF : 3131409.7/34

In: 0.013+/-0.000 χ^2/NDF :2144710.0/24

Out: 0.013+/-0.000 χ^2/NDF :2267272.2/28

All: 0.013+/-0.000 χ^2/NDF : 4412481.3/53

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.152+/-0.000 χ^2/NDF : 274261842.6/15

Left Out: -0.369+/-0.000 χ^2/NDF : 82256647.7/9

Right Out: -0.159+/-0.000 χ^2/NDF : 195614120.0/18

Left In: -0.352+/-0.000 χ^2/NDF : 78578848.3/8

Left: -0.361+/-0.000 χ^2/NDF : 163503338.9/18

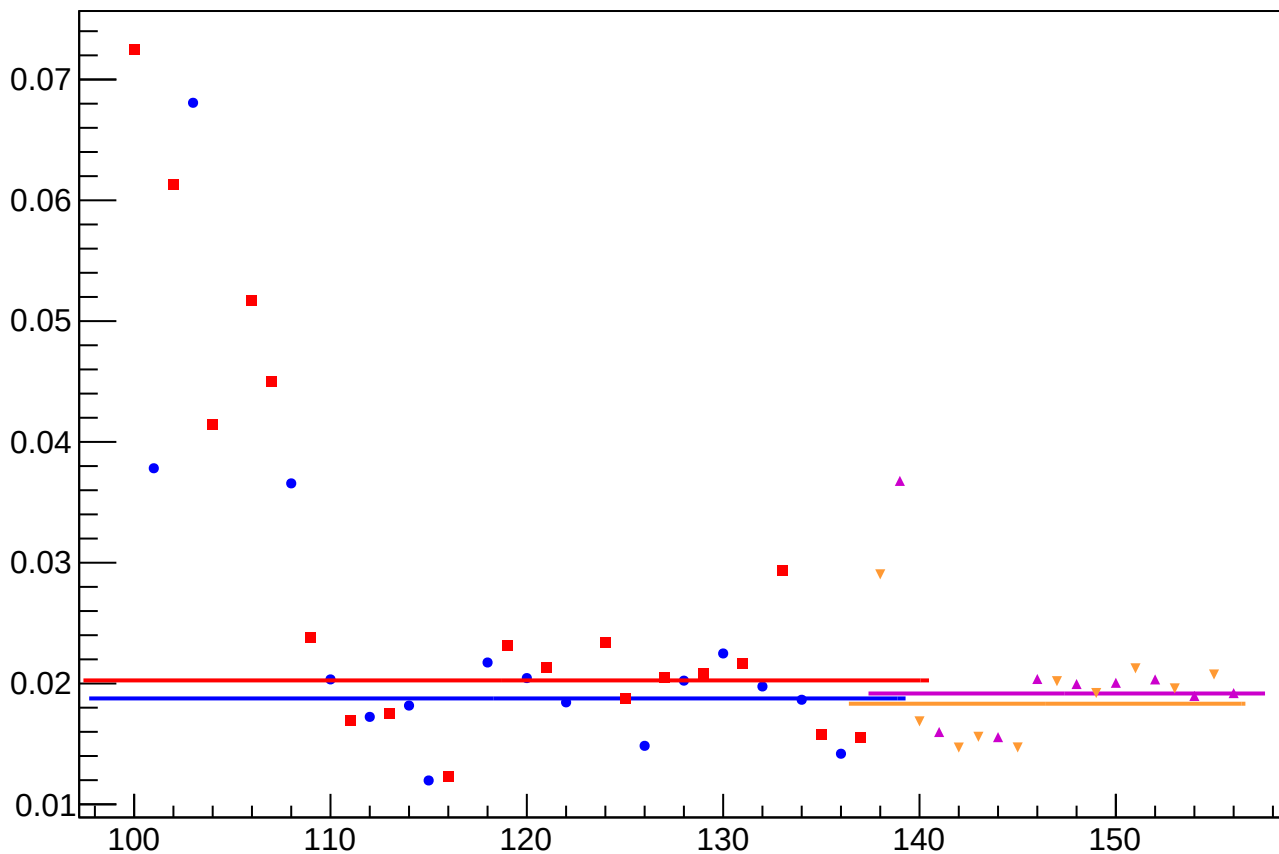
Right: -0.155+/-0.000 χ^2/NDF : 470153865.7/34

In: -0.257+/-0.000 χ^2/NDF : 665844388.4/24

Out: -0.279+/-0.000 χ^2/NDF : 614721128.5/28

All: -0.268+/-0.000 χ^2/NDF : 1288240481.0/5

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 : 401008.3/9

Right Out: 0.020+/-0.000 χ^2/NDF : 1529624.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 520217.4/8

Left: 0.019+/-0.000 χ^2/NDF : 933576.8/18

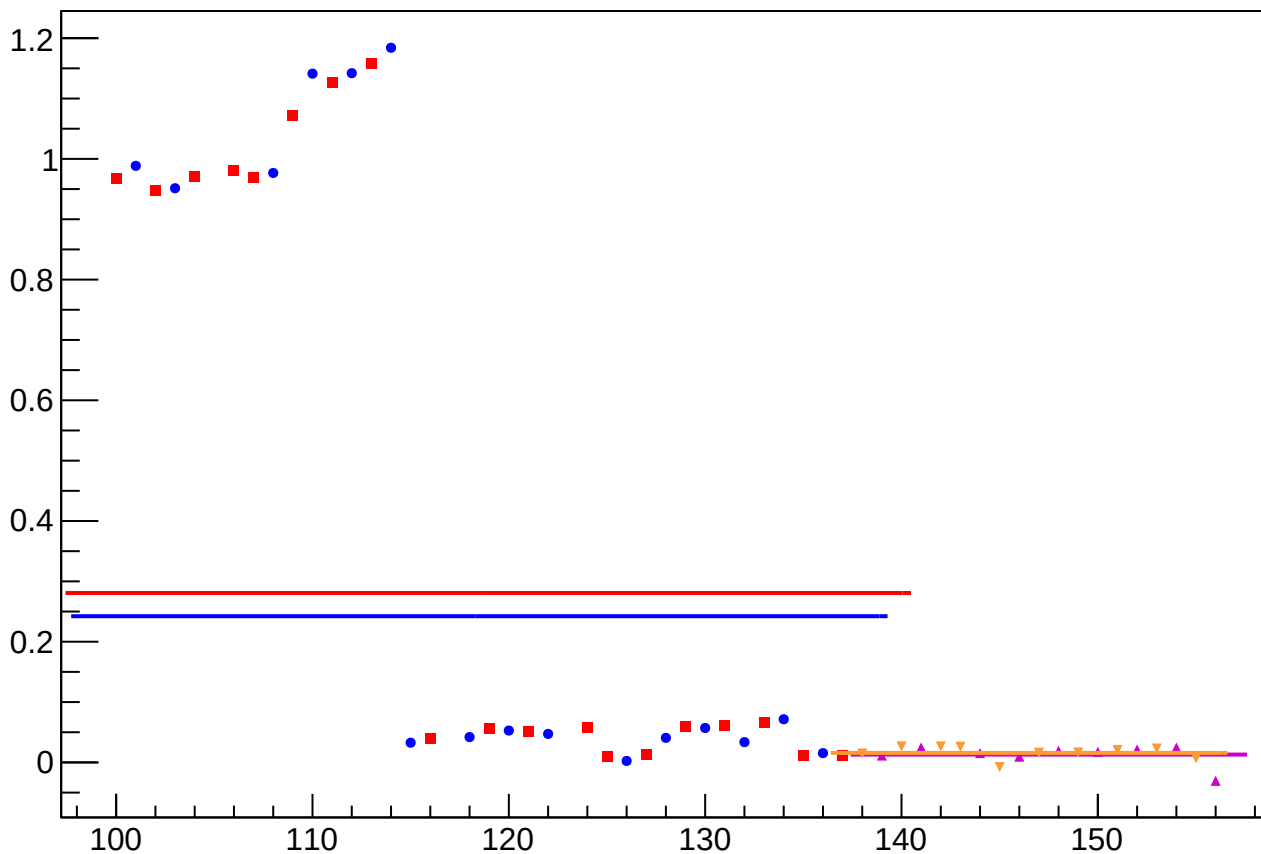
Right: 0.019+/-0.000 χ^2/NDF : 2910384.5/34

In: 0.019+/-0.000 χ^2/NDF : 1872274.2/24

Out: 0.019+/-0.000 χ^2/NDF : 1987281.3/28

All: 0.019+/-0.000 χ^2/NDF : 3860464.7/53

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.242 $\pm$ 0.000 χ^2 /NDF: 6507444426.7/15

Left Out: 0.016 $\pm$ 0.000 χ^2 /NDF: 7944296.0/9

Right Out: 0.281 $\pm$ 0.000 χ^2 /NDF: 6757631639.3/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF: 17803974.1/8

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 25997446.3/18

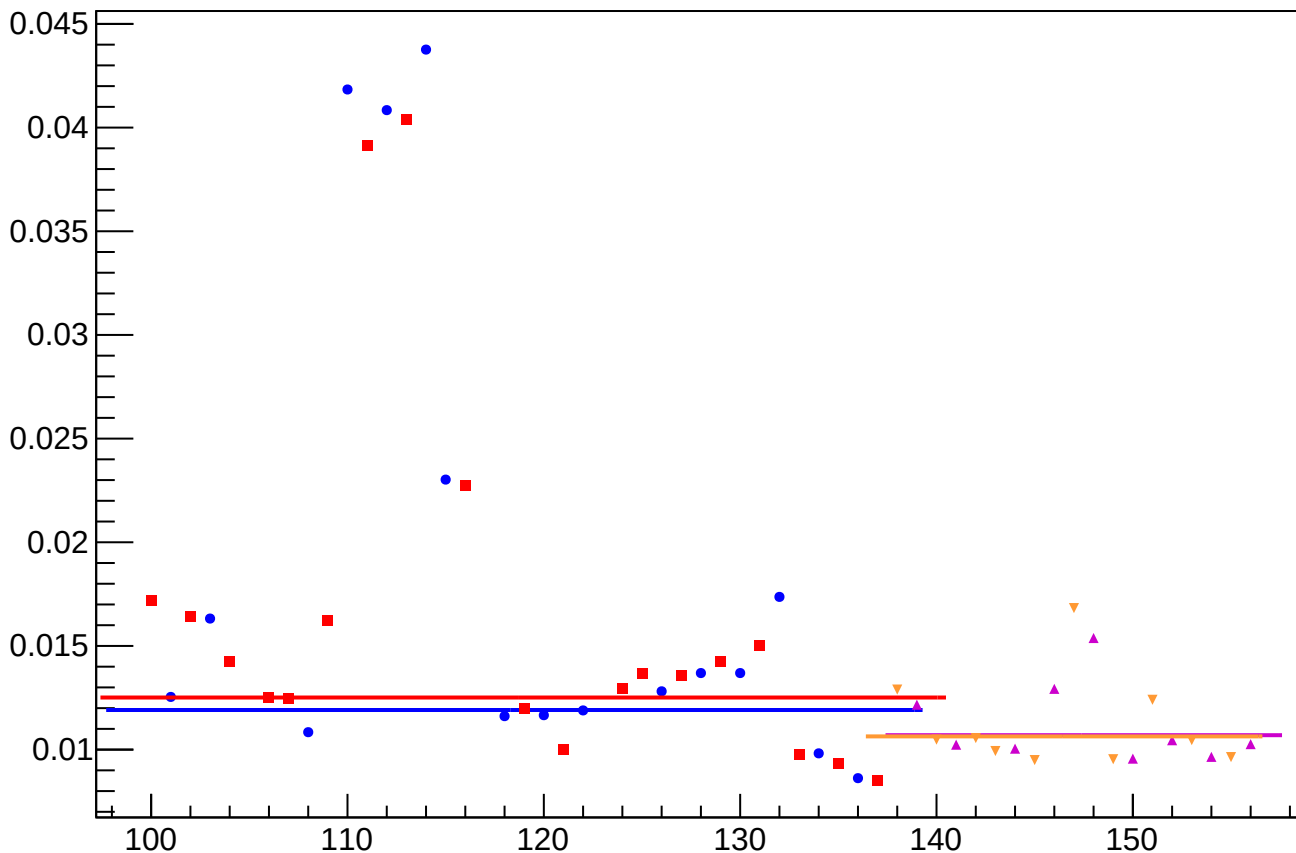
Right: 0.261 $\pm$ 0.000 χ^2 /NDF: 13295182324.5/34

In: 0.103 $\pm$ 0.000 χ^2 /NDF: 7865097209.2/24

Out: 0.116 $\pm$ 0.000 χ^2 /NDF: 8478875014.1/28

All: 0.109 $\pm$ 0.000 χ^2 /NDF: 16351909512.6/5

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 : 364118.1/9

Right Out: 0.013 ± 0.000 χ^2/NDF : 1392455.1/18

Left In: 0.011 ± 0.000 χ^2/NDF : 280623.0/8

Left: 0.011 ± 0.000 χ^2/NDF : 644958.1/18

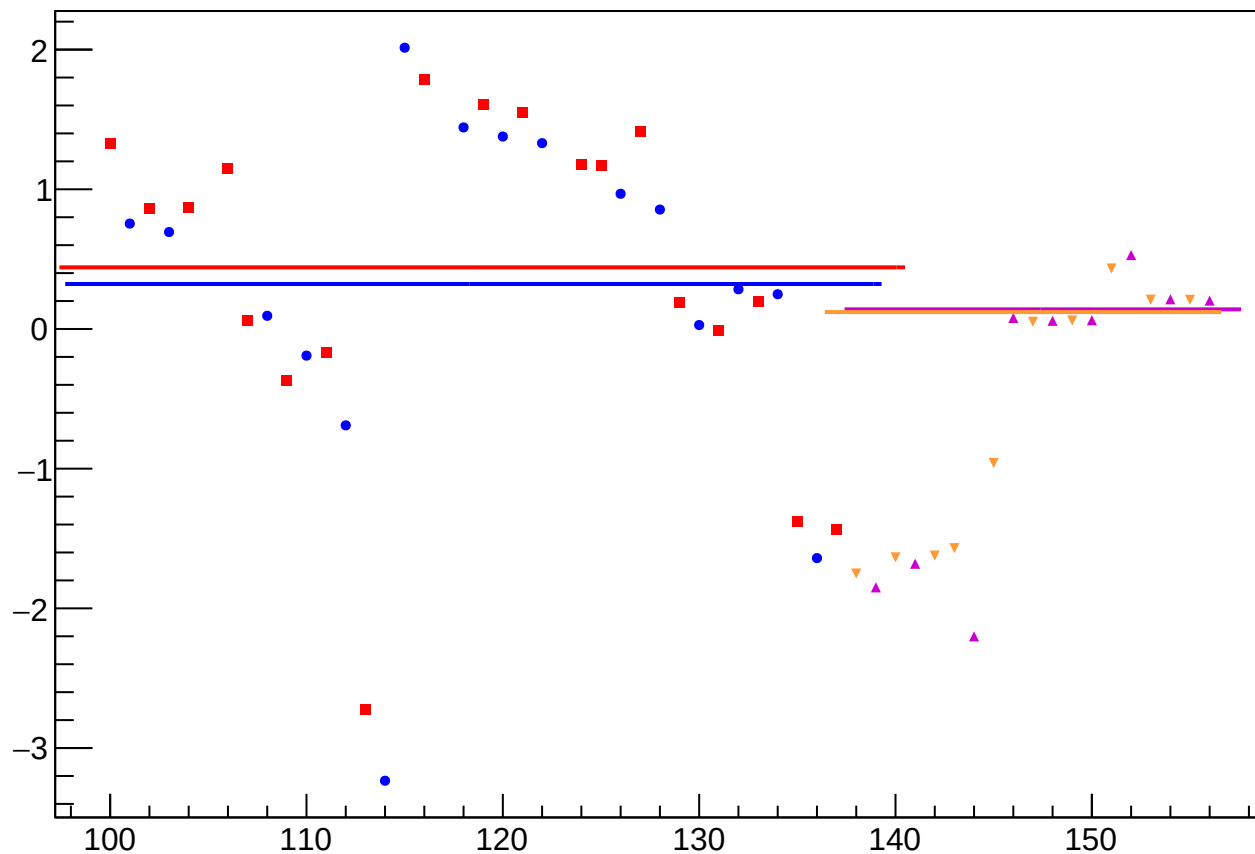
Right: 0.012 ± 0.000 χ^2/NDF : 2866610.3/34

In: 0.011 ± 0.000 χ^2/NDF : 1815294.9/24

Out: 0.011 ± 0.000 χ^2/NDF : 1928144.2/28

All: 0.011 ± 0.000 χ^2/NDF : 3746482.6/53

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.322+/-0.000 χ^2/NDF : 1664983742.5/15

Left Out: 0.121+/-0.000 χ^2/NDF :1590499656.0/9

Right Out: 0.441+/-0.000 χ^2/NDF : 1796703168.4/18

Left In: 0.141+/-0.000 χ^2/NDF :2321661386.7/8

Left: 0.132+/-0.000 χ^2/NDF : 3915147789.8/18

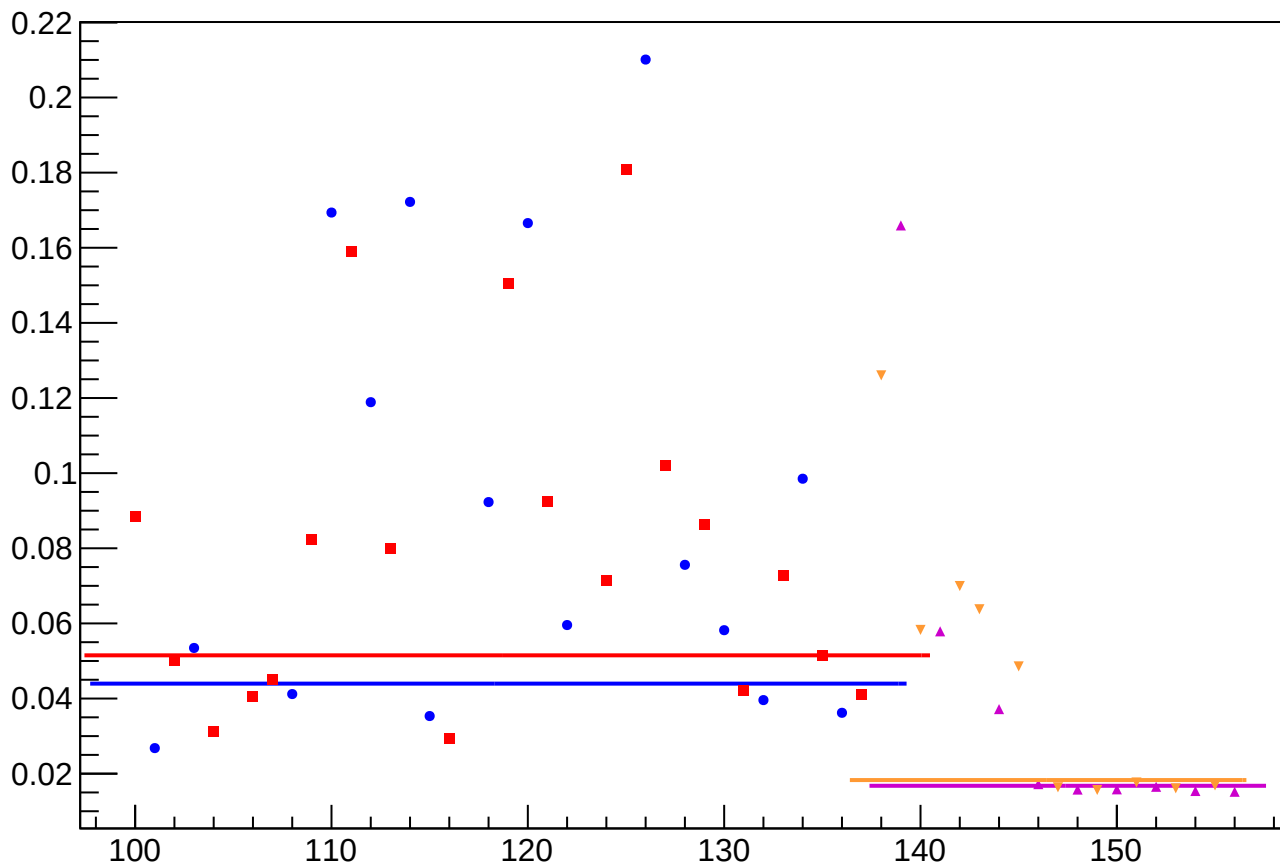
Right: 0.376+/-0.000 χ^2/NDF : 3474475474.1/34

In: 0.159+/-0.000 χ^2/NDF :4045285058.3/24

Out: 0.155+/-0.000 χ^2/NDF :3538104618.8/28

All: 0.157+/-0.000 χ^2/NDF : 7583543444.6/53

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 2787474.8/15

Left Out: 0.018+/-0.000 χ^2/NDF : 2642614.0/9

Right Out: 0.052+/-0.000 χ^2/NDF : 2367478.8/18

Left In: 0.017+/-0.000 χ^2/NDF : 1967330.3/8

Left: 0.017+/-0.000 χ^2/NDF : 4645981.2/18

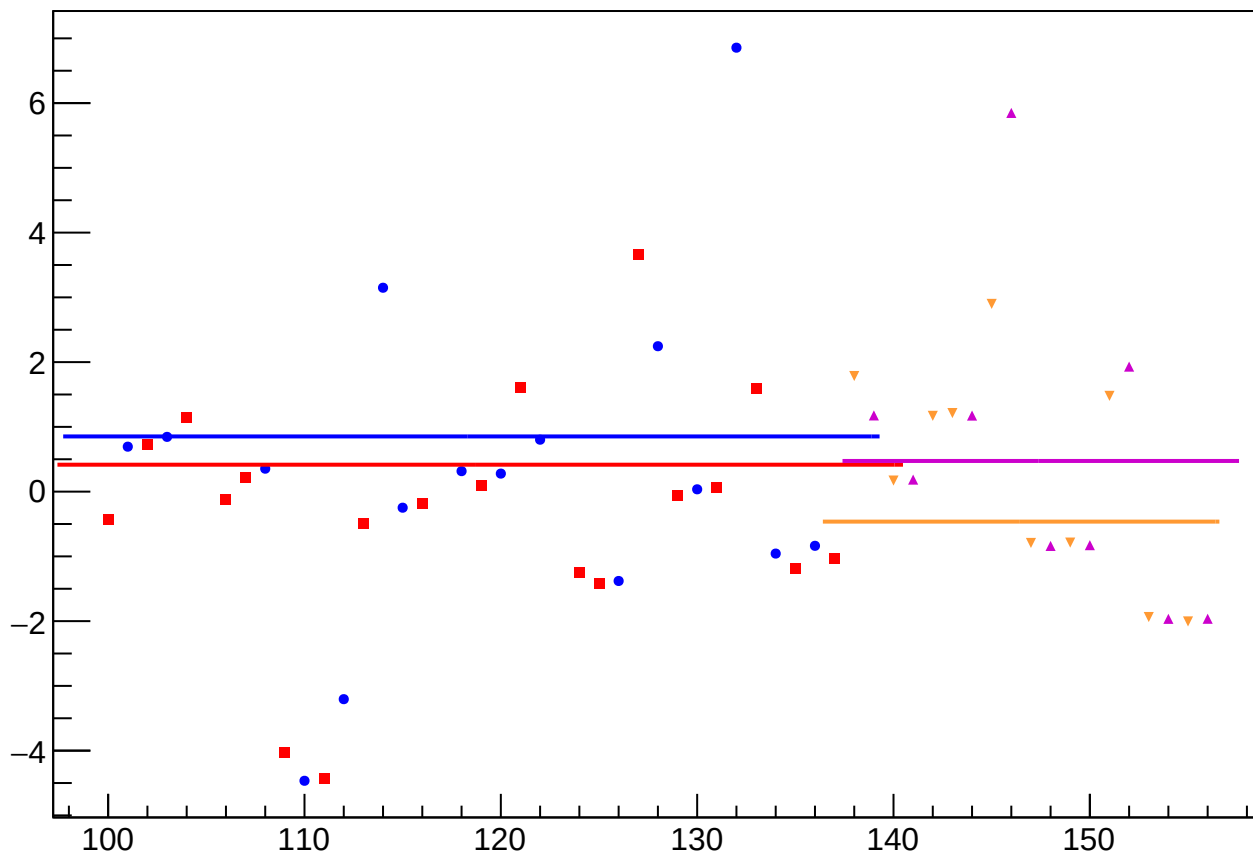
Right: 0.047+/-0.000 χ^2/NDF : 5257025.7/34

In: 0.020+/-0.000 χ^2/NDF : 7392877.6/24

Out: 0.022+/-0.000 χ^2/NDF : 8257114.3/28

All: 0.021+/-0.000 χ^2/NDF : 15739222.4/53

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.852+/-0.000 χ^2/NDF : 11576037687.7/15

Left Out: -0.463+/-0.000 χ^2/NDF : 71816550806.5/9

Right Out: 0.416+/-0.000 χ^2/NDF : 5121892038.7/18

Left In: 0.474+/-0.000 χ^2/NDF : 203874700144.4/8

Left: 0.043+/-0.000 χ^2/NDF : 285894350719.8/18

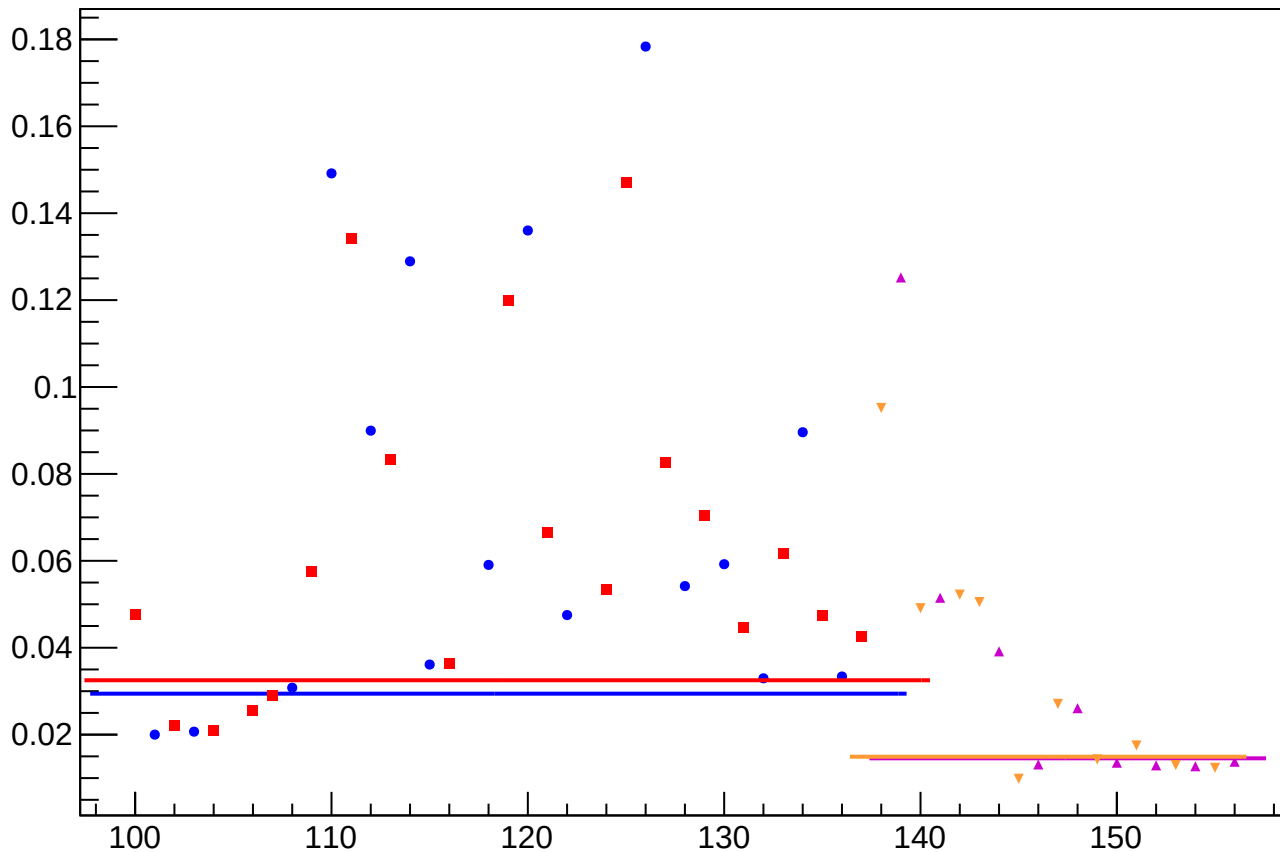
Right: 0.644+/-0.000 χ^2/NDF : 17086077865.4/34

In: 0.528+/-0.000 χ^2/NDF : 215974115985.9/24

Out: -0.328+/-0.000 χ^2/NDF : 79489896949.0/28

All: 0.133+/-0.000 χ^2/NDF : 305484310221.6

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3192424.8/15

Left Out: 0.015+/-0.000 χ^2/NDF : 2733749.4/9

Right Out: 0.033+/-0.000 χ^2/NDF : 3315430.7/18

Left In: 0.015+/-0.000 χ^2/NDF : 2436491.5/8

Left: 0.015+/-0.000 χ^2/NDF : 5173400.0/18

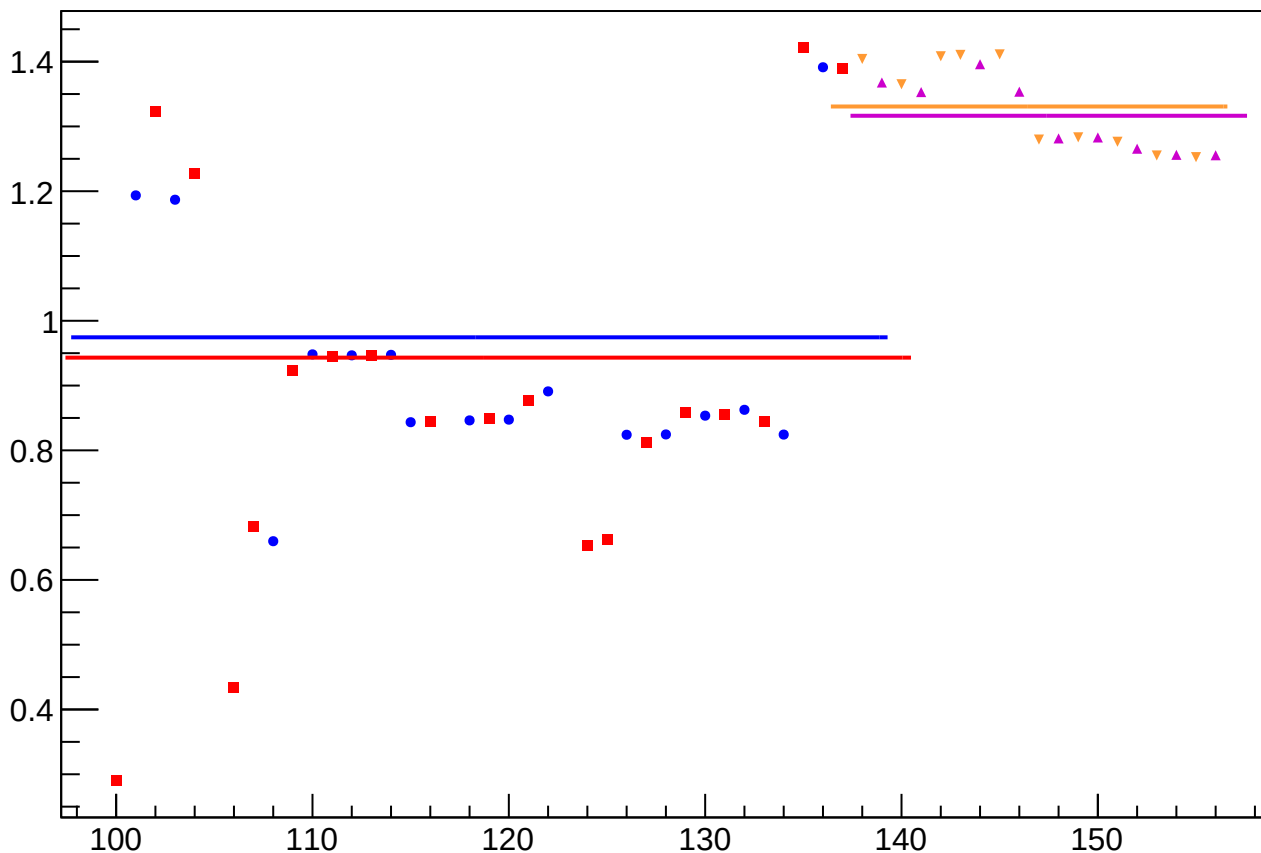
Right: 0.031+/-0.000 χ^2/NDF : 6546669.2/34

In: 0.017+/-0.000 χ^2/NDF : 7243410.7/24

Out: 0.018+/-0.000 χ^2/NDF : 8094834.2/28

All: 0.017+/-0.000 χ^2/NDF : 15361856.0/53

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.974 $\pm$ 0.000 χ^2 /NDF: 1458735246.5/15

Left Out: 1.331 $\pm$ 0.000 χ^2 /NDF:176434026.2/9

Right Out: 0.943 $\pm$ 0.000 χ^2 /NDF: 1670579900.3/18

Left In: 1.316 $\pm$ 0.000 χ^2 /NDF:100137651.9/8

Left: 1.324 $\pm$ 0.000 χ^2 /NDF: 280643396.9/18

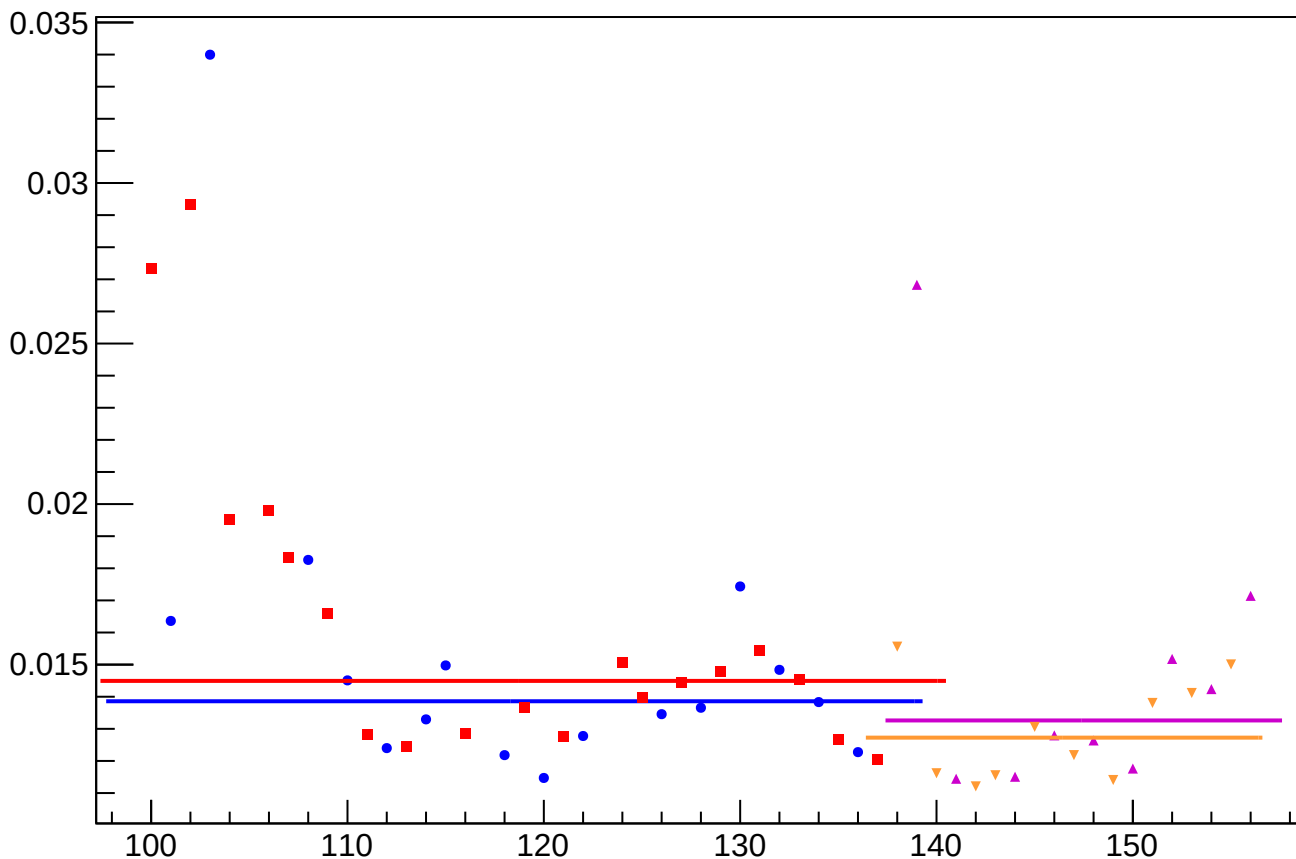
Right: 0.959 $\pm$ 0.000 χ^2 /NDF: 3144762694.7/34

In: 1.160 $\pm$ 0.000 χ^2 /NDF:3607164645.6/24

Out: 1.167 $\pm$ 0.000 χ^2 /NDF:4492799402.7/28

All: 1.163 $\pm$ 0.000 χ^2 /NDF: 8101800480.1/53

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 599979.5/15

Left Out: 0.013+/-0.000 χ^2/NDF : 164975.4/9

Right Out: 0.014+/-0.000 χ^2/NDF : 544337.7/18

Left In: 0.013+/-0.000 χ^2/NDF : 625683.0/8

Left: 0.013+/-0.000 χ^2/NDF : 802068.3/18

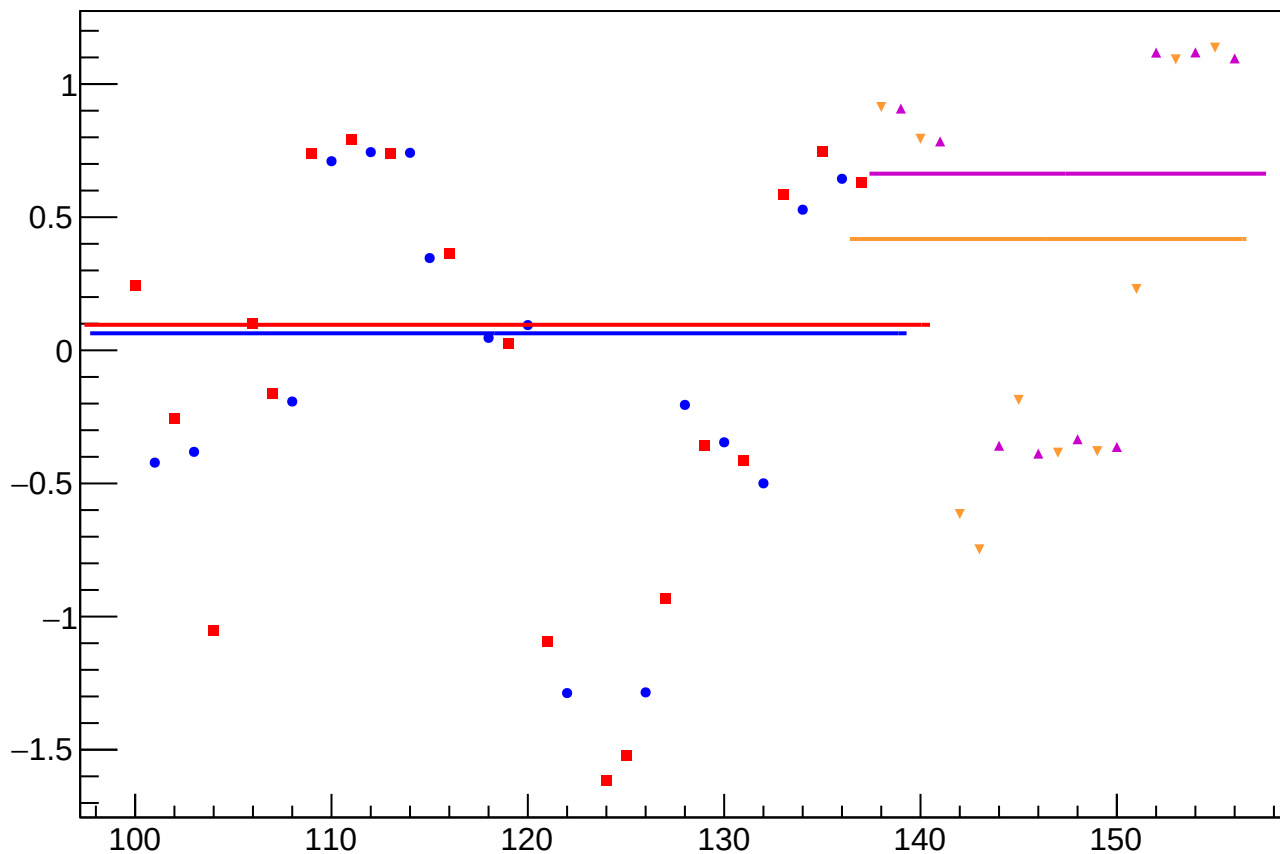
Right: 0.014+/-0.000 χ^2/NDF : 1156942.1/34

In: 0.014+/-0.000 χ^2/NDF : 1238182.7/24

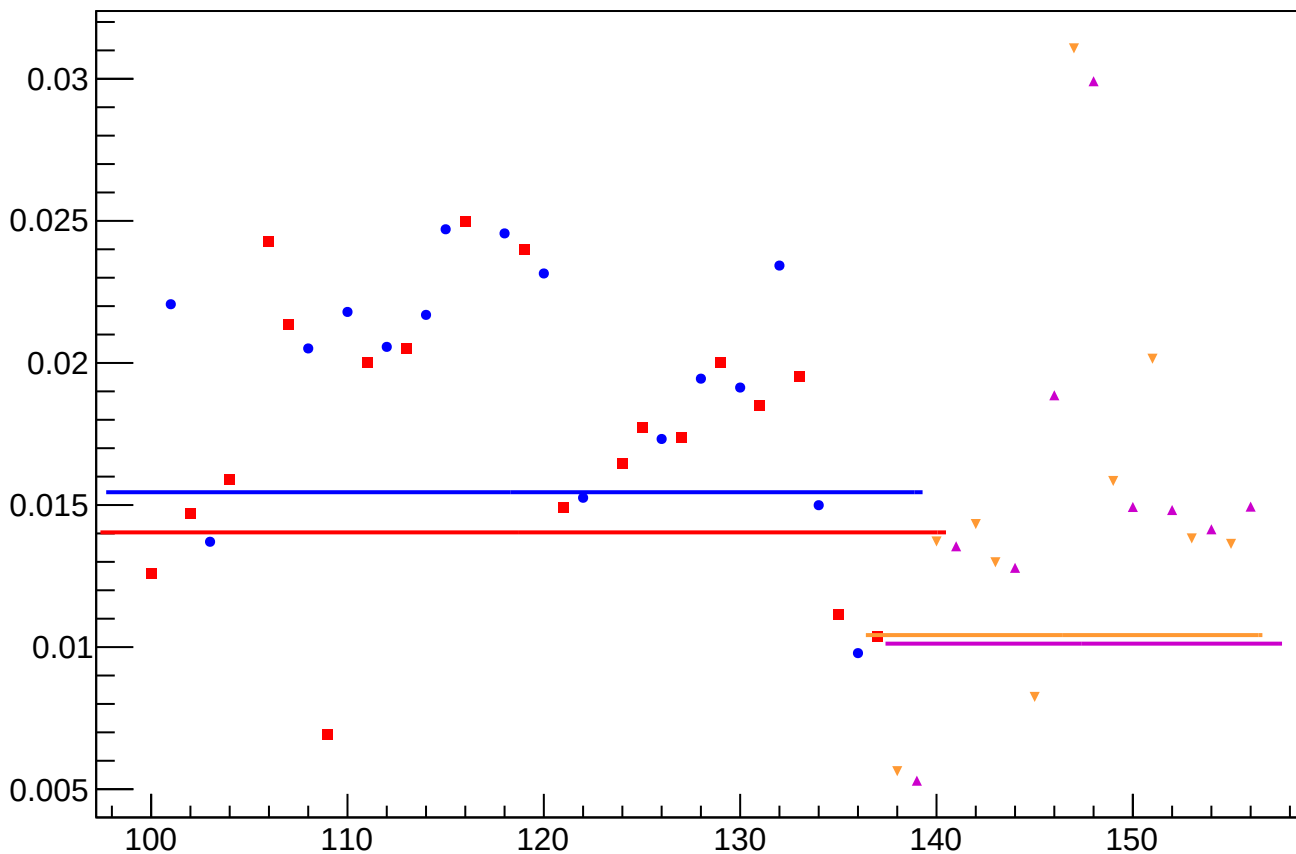
Out: 0.013+/-0.000 χ^2/NDF : 819275.6/28

All: 0.014+/-0.000 χ^2/NDF : 2057731.1/53

yield_bpm11Y_mean vs Slug, Sign Corrected



yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1293711.1/15

Left Out: 0.010+/-0.000 χ^2/NDF : 2623740.0/9

Right Out: 0.014+/-0.000 χ^2/NDF : 1686554.4/18

Left In: 0.010+/-0.000 χ^2/NDF : 3171619.5/8

Left: 0.010+/-0.000 χ^2/NDF : 5800403.9/18

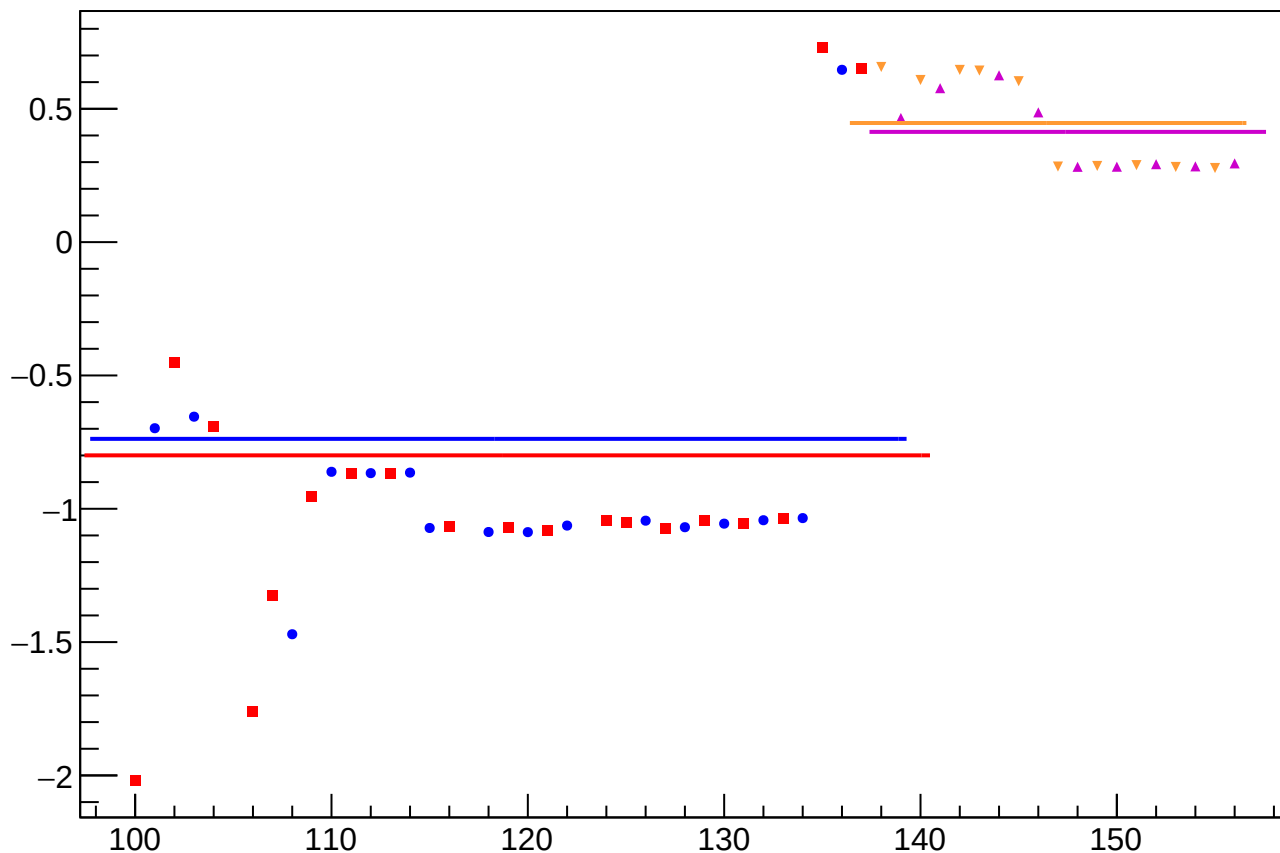
Right: 0.015+/-0.000 χ^2/NDF : 3034802.2/34

In: 0.012+/-0.000 χ^2/NDF : 5455270.0/24

Out: 0.012+/-0.000 χ^2/NDF : 4814007.5/28

All: 0.012+/-0.000 χ^2/NDF : 10269556.9/53

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.738 ± 0.000 $\chi^2/\text{NDF}: 2072845802.4/15$

Left Out: 0.447 ± 0.000 $\chi^2/\text{NDF}: 188276275.5/9$

Right Out: -0.800 ± 0.000 $\chi^2/\text{NDF}: 1883862445.0/18$

Left In: 0.413 ± 0.000 $\chi^2/\text{NDF}: 119693649.0/8$

Left: 0.431 ± 0.000 $\chi^2/\text{NDF}: 311324816.3/18$

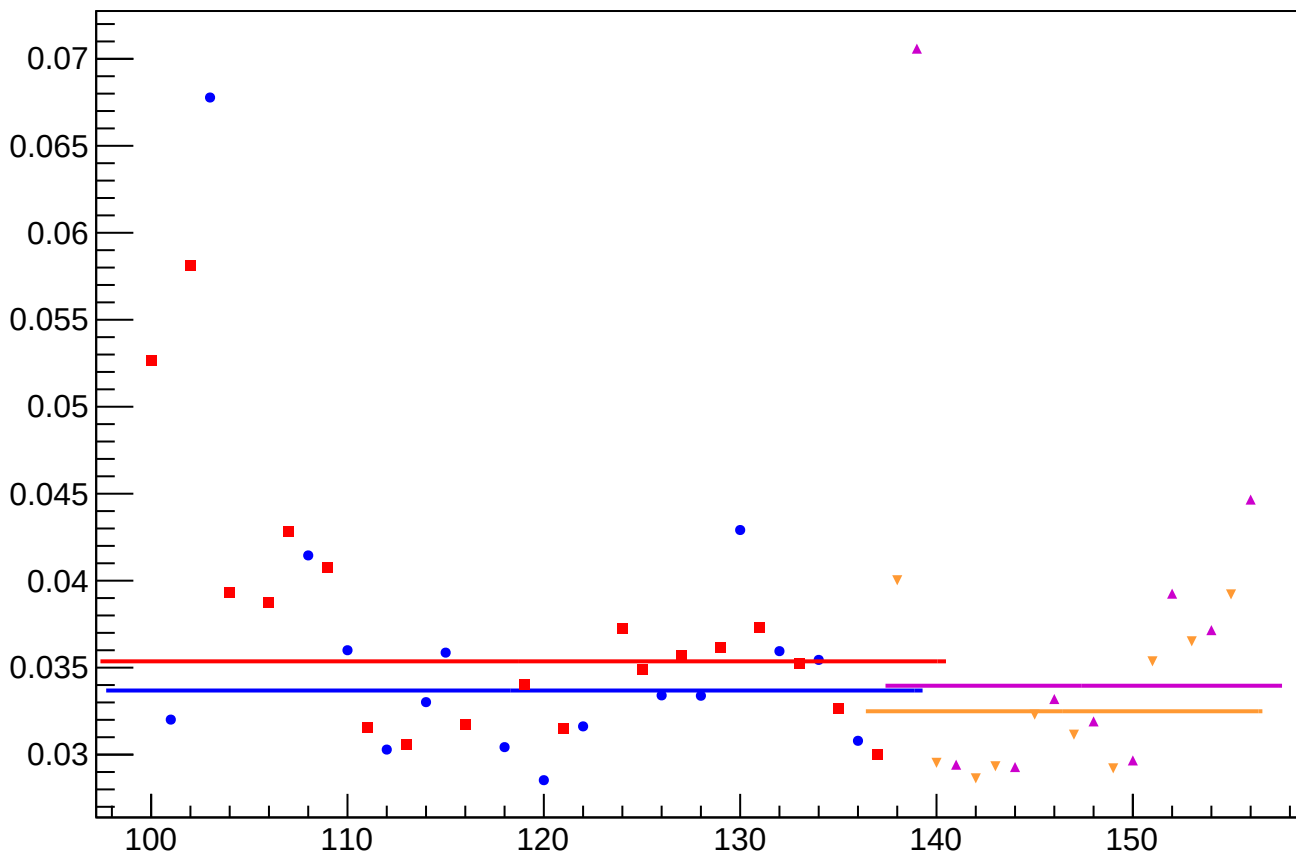
Right: -0.768 ± 0.000 $\chi^2/\text{NDF}: 3966960462.4/34$

In: -0.151 ± 0.000 $\chi^2/\text{NDF}: 5945792709.1/24$

Out: -0.114 ± 0.000 $\chi^2/\text{NDF}: 6494830307.5/28$

All: -0.132 ± 0.000 $\chi^2/\text{NDF}: 12448576748.0/42$

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 :181934.5/9

Right Out: 0.035+/-0.000 χ^2/NDF : 296353.9/18

Left In: 0.034+/-0.000 χ^2/NDF :672700.7/8

Left: 0.033+/-0.000 χ^2/NDF : 867663.2/18

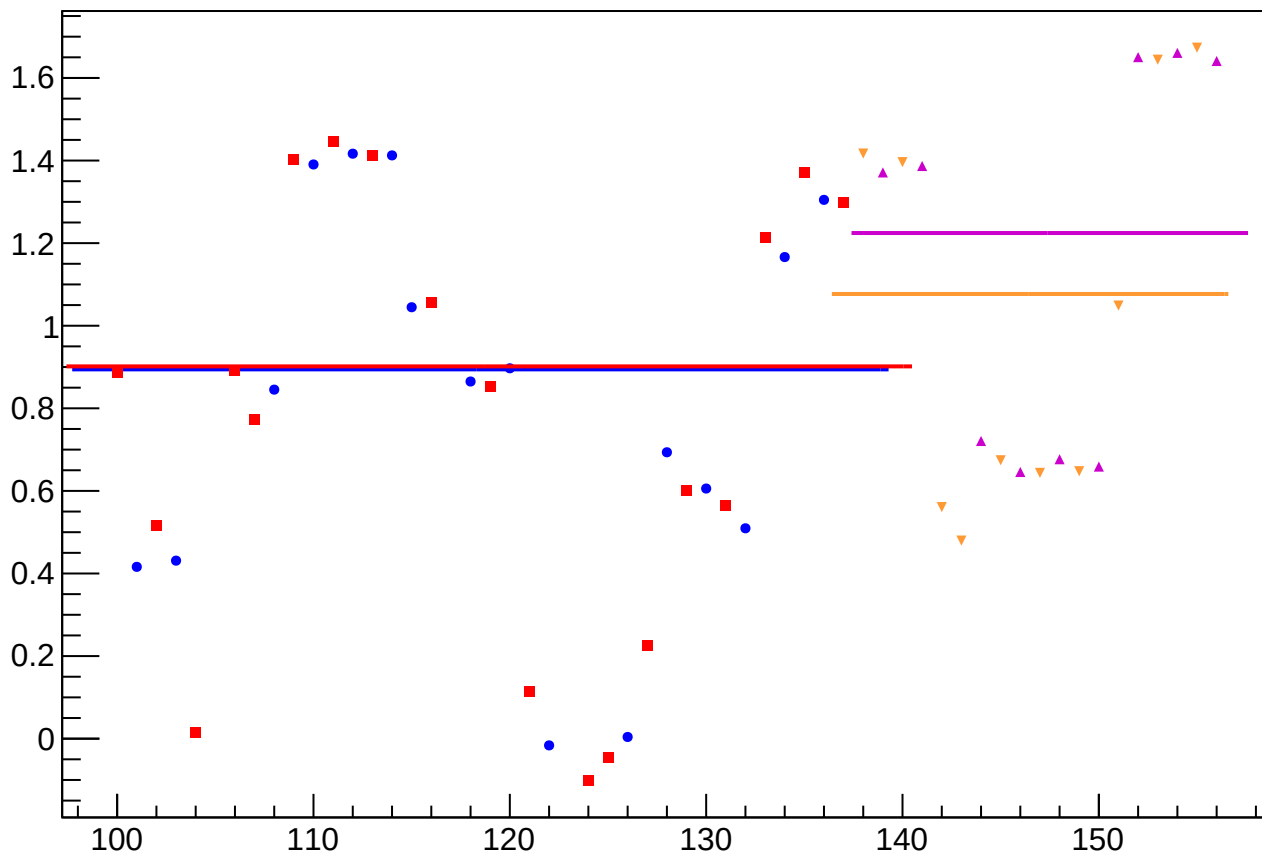
Right: 0.034+/-0.000 χ^2/NDF : 731644.4/34

In: 0.034+/-0.000 χ^2/NDF :1093356.5/24

Out: 0.034+/-0.000 χ^2/NDF :525195.2/28

All: 0.034+/-0.000 χ^2/NDF : 1618573.0/53

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000 χ^2/NDF : 12749707787.6/15

Left Out: 1.077 $\pm$ 0.000 χ^2/NDF :18030937340.3/9

Right Out: 0.902 $\pm$ 0.000 χ^2/NDF : 17893051843.7/18

Left In: 1.225 $\pm$ 0.000 χ^2/NDF :13325254038.7/8

Left: 1.149 $\pm$ 0.000 χ^2/NDF : 32269424448.0/18

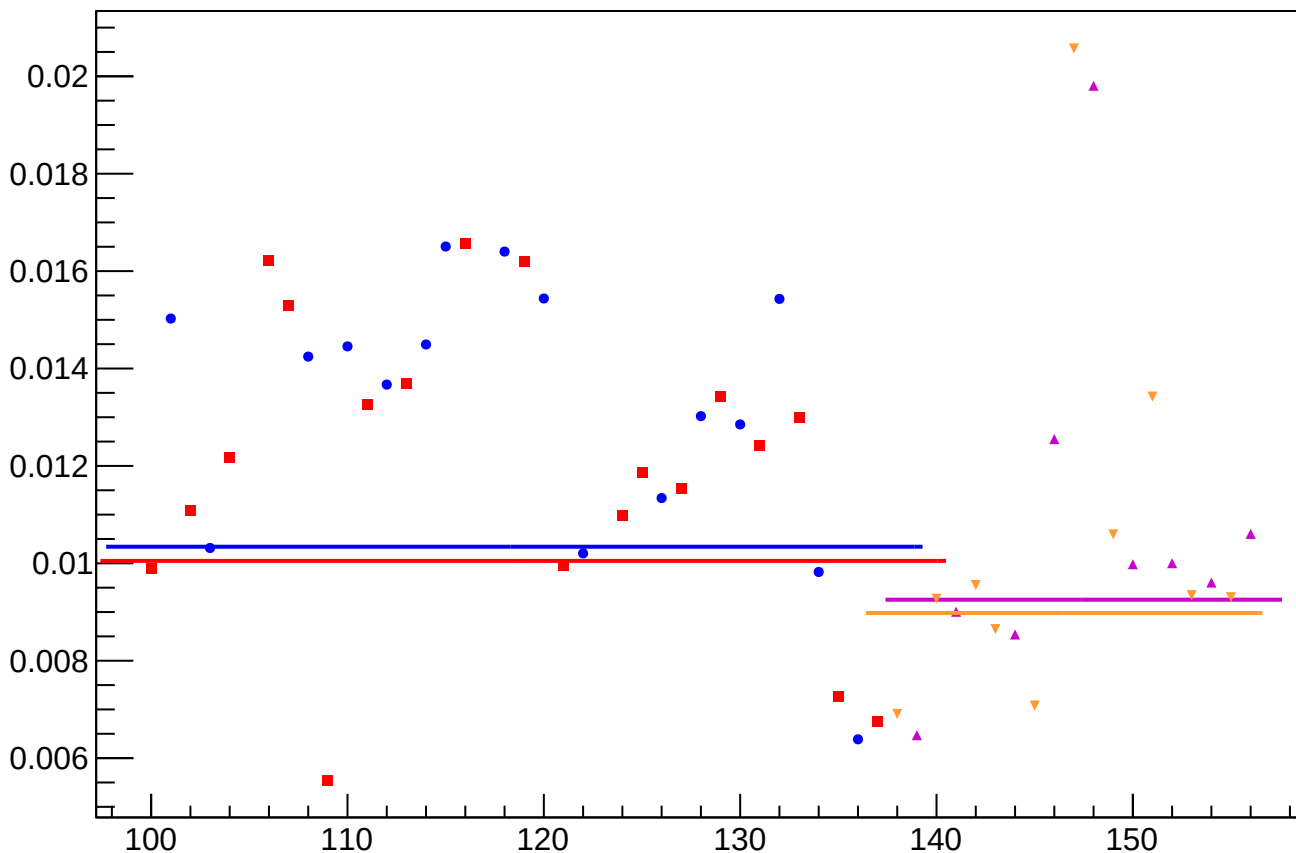
Right: 0.898 $\pm$ 0.000 χ^2/NDF : 30644277544.6/34

In: 1.090 $\pm$ 0.000 χ^2/NDF :29684423897.3/24

Out: 1.005 $\pm$ 0.000 χ^2/NDF :37014777395.1/28

All: 1.046 $\pm$ 0.000 χ^2/NDF : 67217448898.7/5

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1350446.6/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:961088.4/9

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1336866.7/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:903526.6/8

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 1870834.7/18

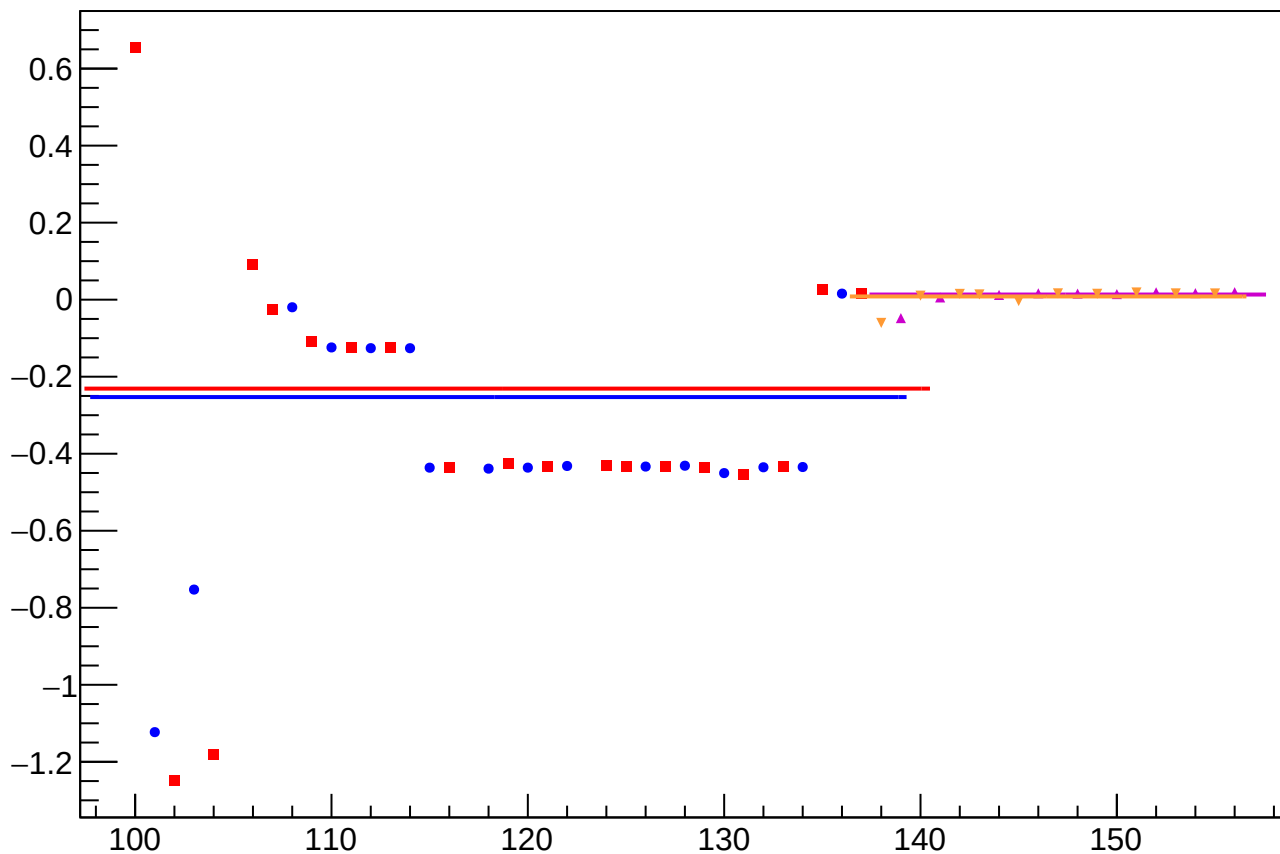
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2692207.1/34

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2332281.3/24

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2379109.9/28

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 4722091.1/53

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.253+/-0.000 χ^2/NDF : 2025242410.1/15

Left Out: 0.008+/-0.000 χ^2/NDF : 20962191.1/9

Right Out: -0.231+/-0.000 χ^2/NDF : 1808702536.0/18

Left In: 0.013+/-0.000 χ^2/NDF : 5600601.6/8

Left: 0.011+/-0.000 χ^2/NDF : 27325659.9/18

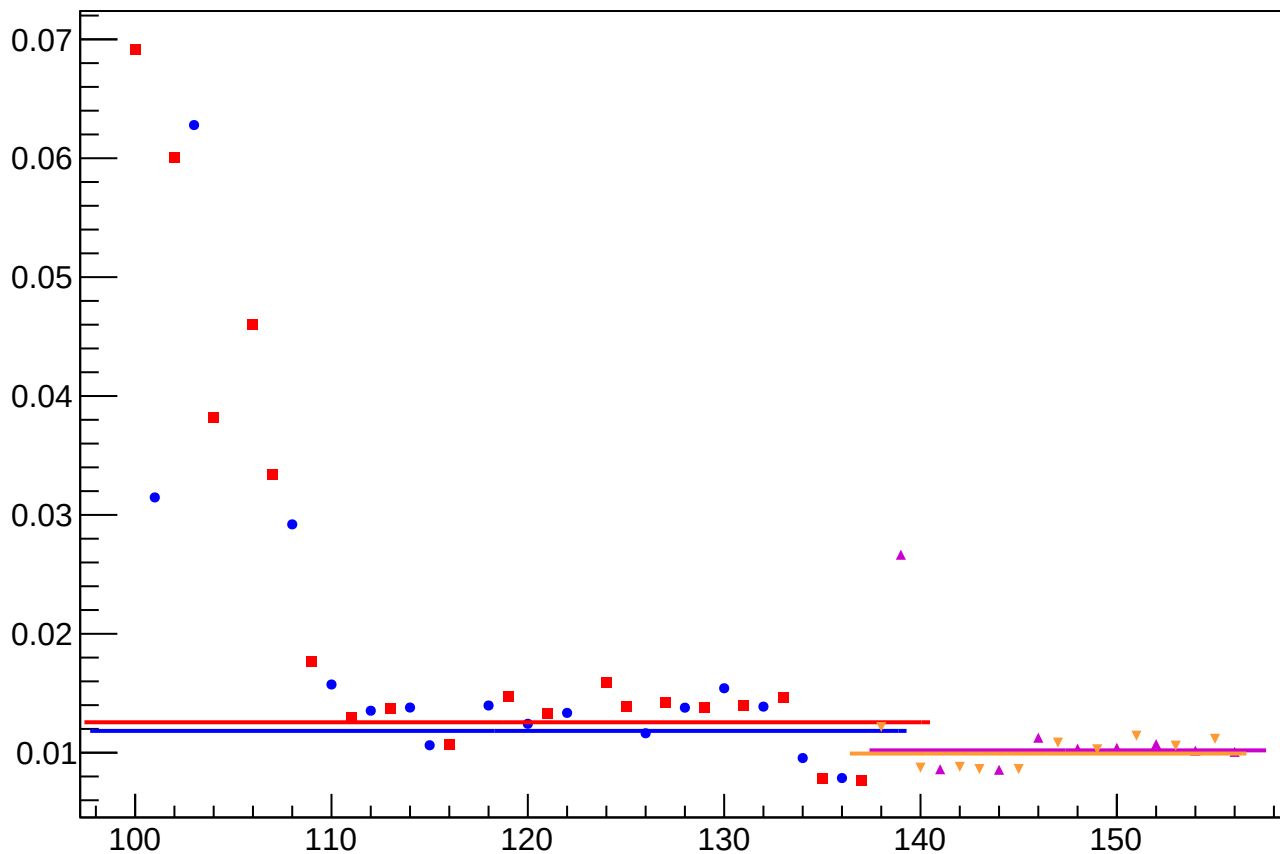
Right: -0.243+/-0.000 χ^2/NDF : 3842049612.8/34

In: -0.086+/-0.000 χ^2/NDF : 3610415000.5/24

Out: -0.071+/-0.000 χ^2/NDF : 3043723006.0/28

All: -0.078+/-0.000 χ^2/NDF : 6664476190.2/5

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:187704.8/9

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2217419.3/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:748980.8/8

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 941053.1/18

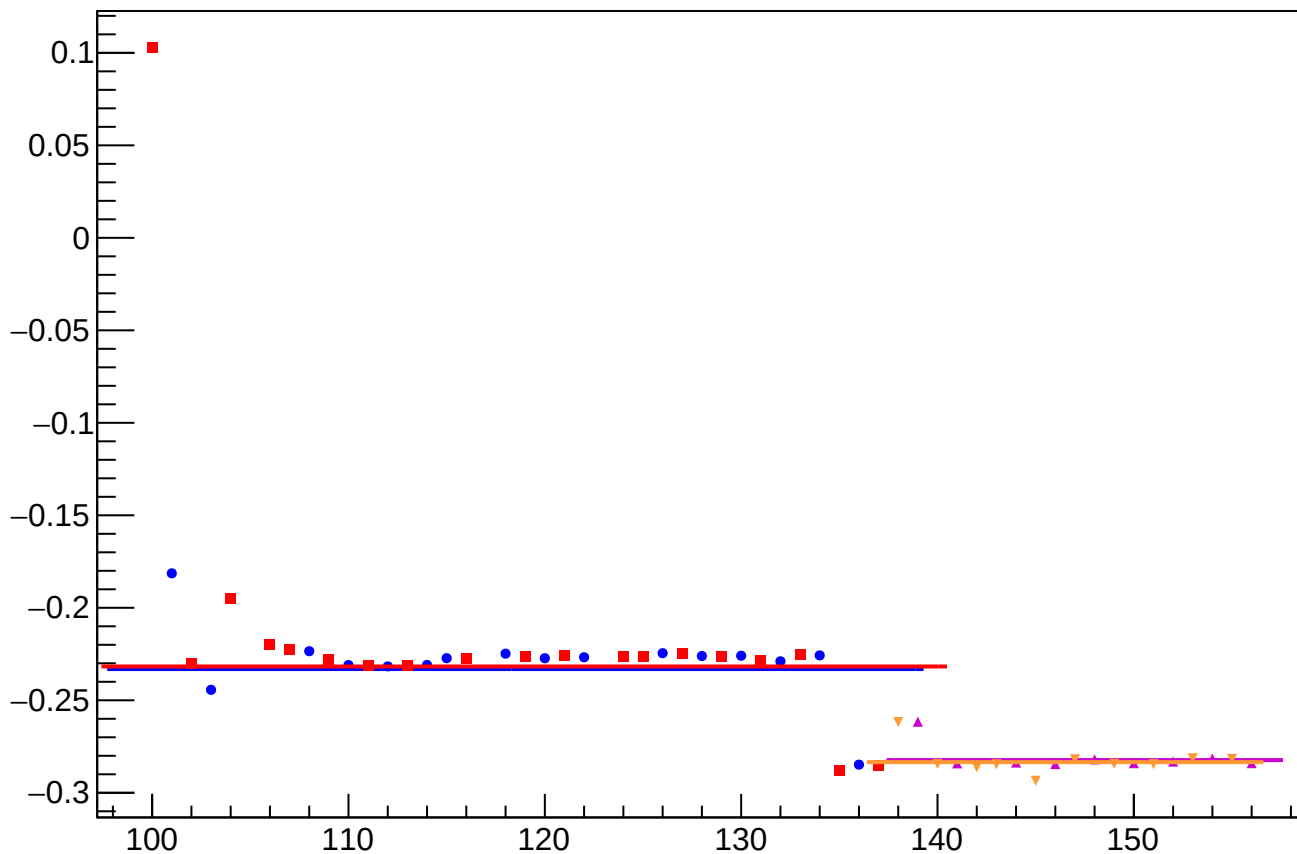
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 4177625.3/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2811315.3/24

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2698679.3/28

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5509995.2/53

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.233+/-0.000 χ^2/NDF : 199059878.3/15

Left Out: -0.283+/-0.000 χ^2/NDF : 14746389.7/9

Right Out: -0.232+/-0.000 χ^2/NDF : 287244778.7/18

Left In: -0.282+/-0.000 χ^2/NDF : 6232121.2/8

Left: -0.283+/-0.000 χ^2/NDF : 21150071.9/18

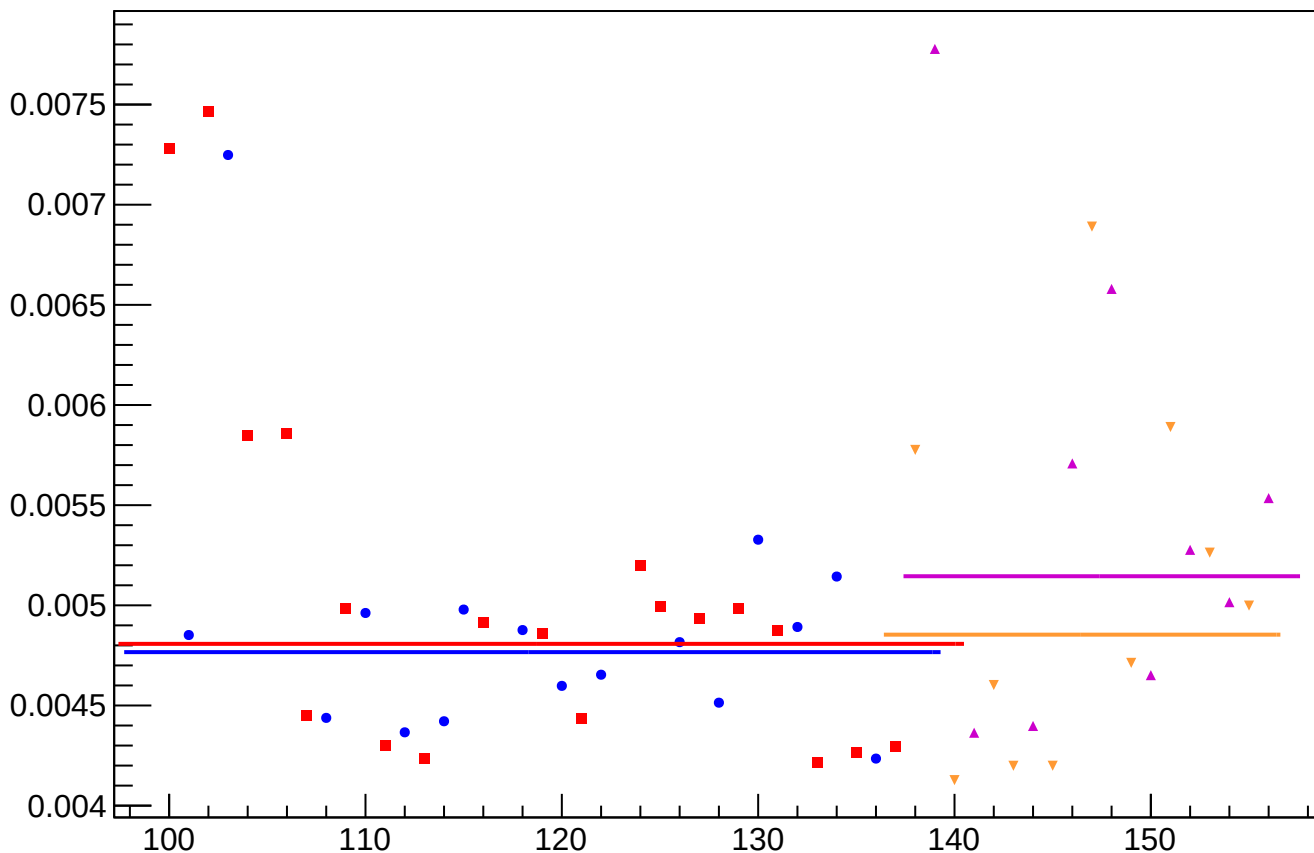
Right: -0.232+/-0.000 χ^2/NDF : 486580881.0/34

In: -0.257+/-0.000 χ^2/NDF : 540600663.7/24

Out: -0.258+/-0.000 χ^2/NDF : 698442555.2/28

All: -0.258+/-0.000 χ^2/NDF : 1239332194.6/5

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 : 359344.4/9

Right Out: 0.005+/-0.000 χ^2/NDF : 293738.0/18

Left In: 0.005+/-0.000 χ^2/NDF : 403416.1/8

Left: 0.005+/-0.000 χ^2/NDF : 787068.1/18

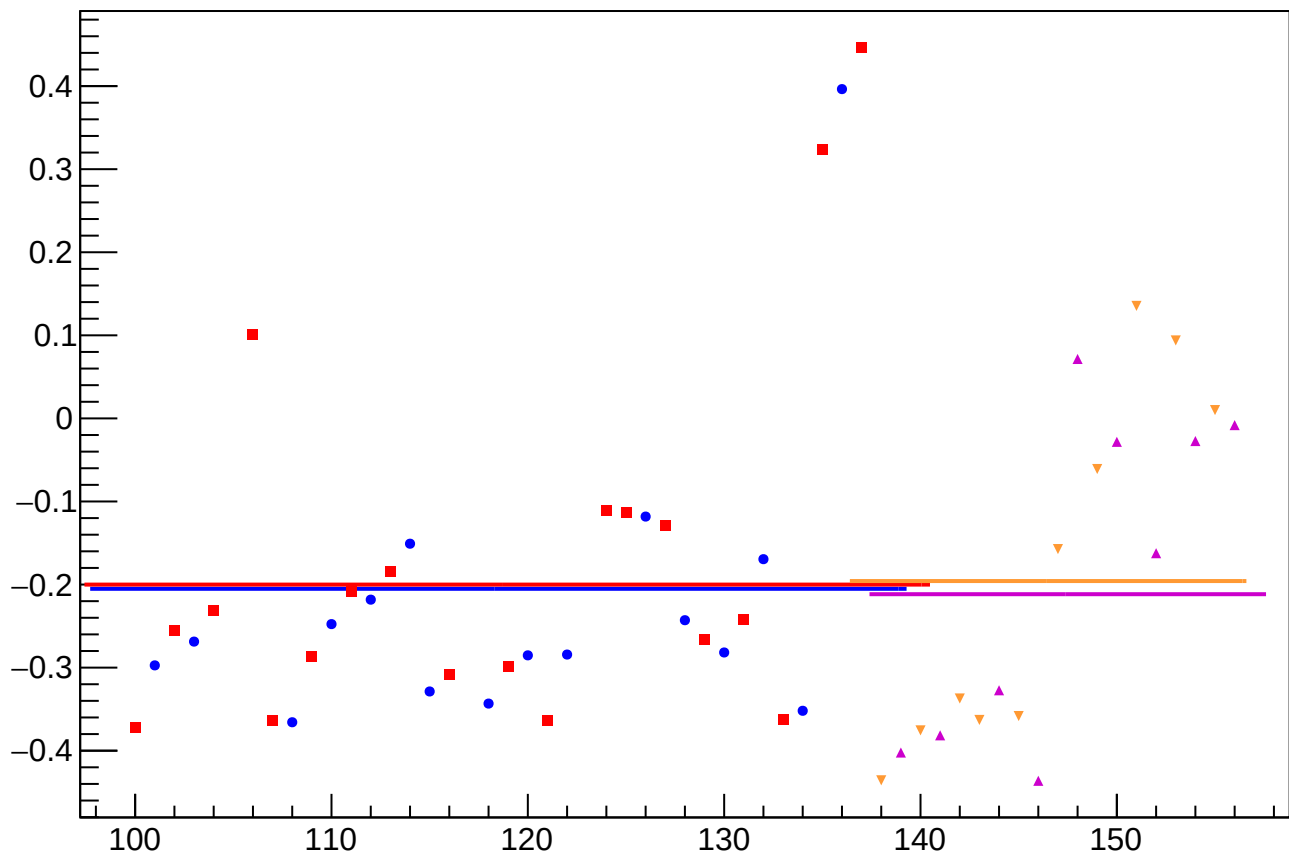
Right: 0.005+/-0.000 χ^2/NDF : 485985.9/34

In: 0.005+/-0.000 χ^2/NDF : 634890.0/24

Out: 0.005+/-0.000 χ^2/NDF : 653708.2/28

All: 0.005+/-0.000 χ^2/NDF : 1296874.7/53

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 χ^2/NDF : 6189271855.3/15

Left Out: -0.196 ± 0.000 χ^2/NDF : 10745023786.9/9

Right Out: -0.200 ± 0.000 χ^2/NDF : 5249978819.5/18

Left In: -0.212 ± 0.000 χ^2/NDF : 7244607746.4/8

Left: -0.203 ± 0.000 χ^2/NDF : 18018954399.3/18

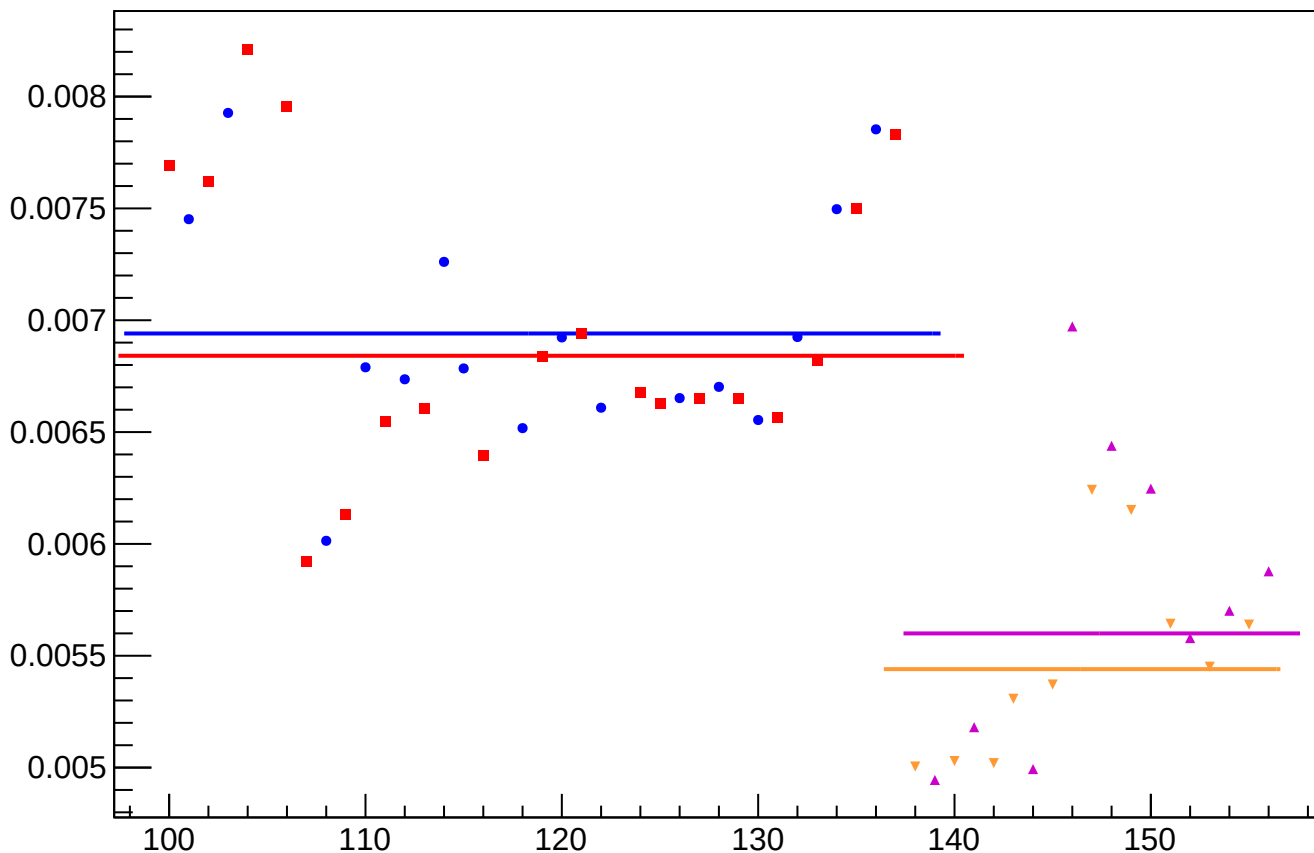
Right: -0.203 ± 0.000 χ^2/NDF : 11441176033.3/34

In: -0.209 ± 0.000 χ^2/NDF : 13437614116.8/24

Out: -0.197 ± 0.000 χ^2/NDF : 15996718728.7/28

All: -0.203 ± 0.000 χ^2/NDF : 29460267991.0/70

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 : 76750.0/9

Right Out: 0.007+/-0.000 χ^2/NDF : 99819.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 165789.5/8

Left: 0.006+/-0.000 χ^2/NDF : 248509.1/18

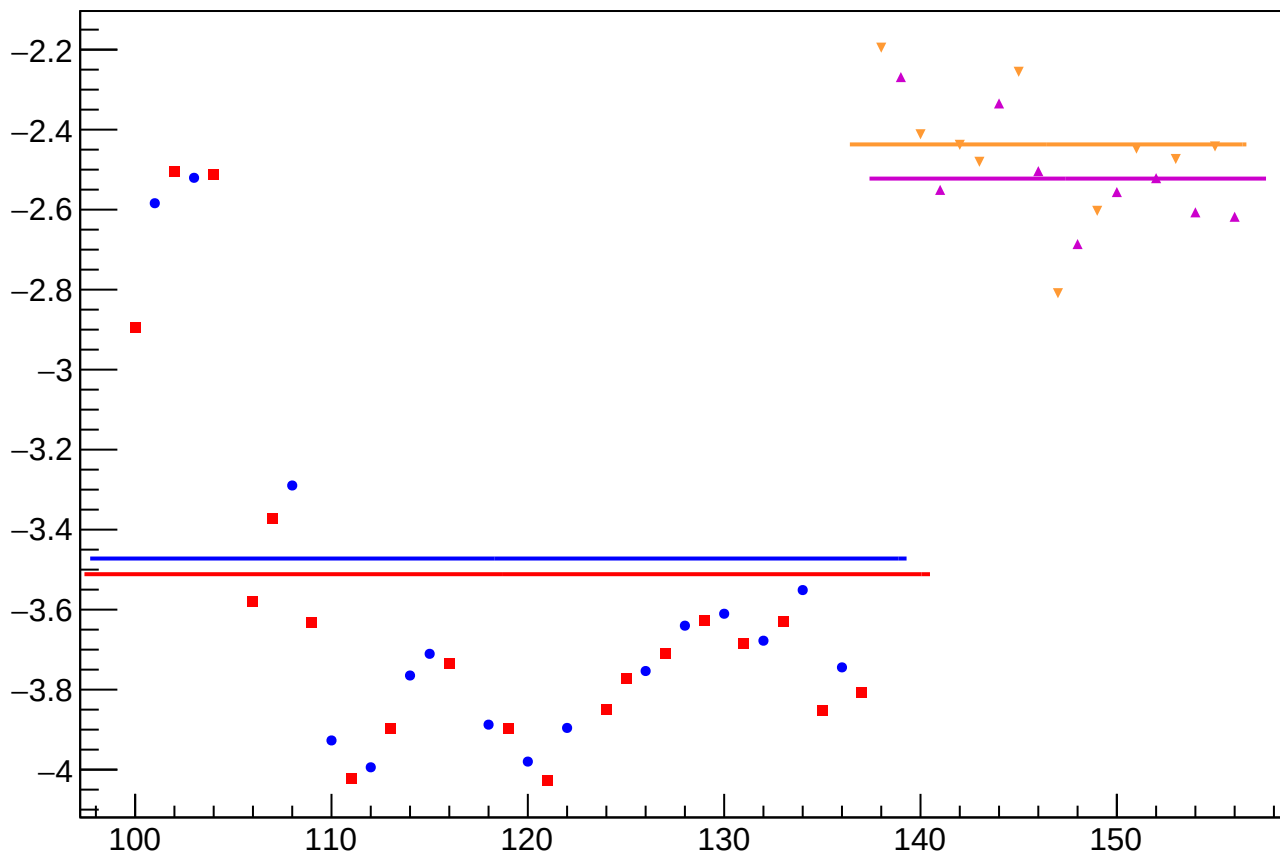
Right: 0.007+/-0.000 χ^2/NDF : 186467.2/34

In: 0.006+/-0.000 χ^2/NDF : 569593.2/24

Out: 0.006+/-0.000 χ^2/NDF : 547460.4/28

All: 0.006+/-0.000 χ^2/NDF : 1125101.7/53

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.472+/-0.000 χ^2/NDF : 29592353445.4/15

Left Out: -2.437+/-0.000 χ^2/NDF : 1393130872.2/9

Right Out: -3.511+/-0.000 χ^2/NDF : 29716501733.6/18

Left In: -2.522+/-0.000 χ^2/NDF : 1183276798.7/8

Left: -2.479+/-0.000 χ^2/NDF : 2878042171.2/18

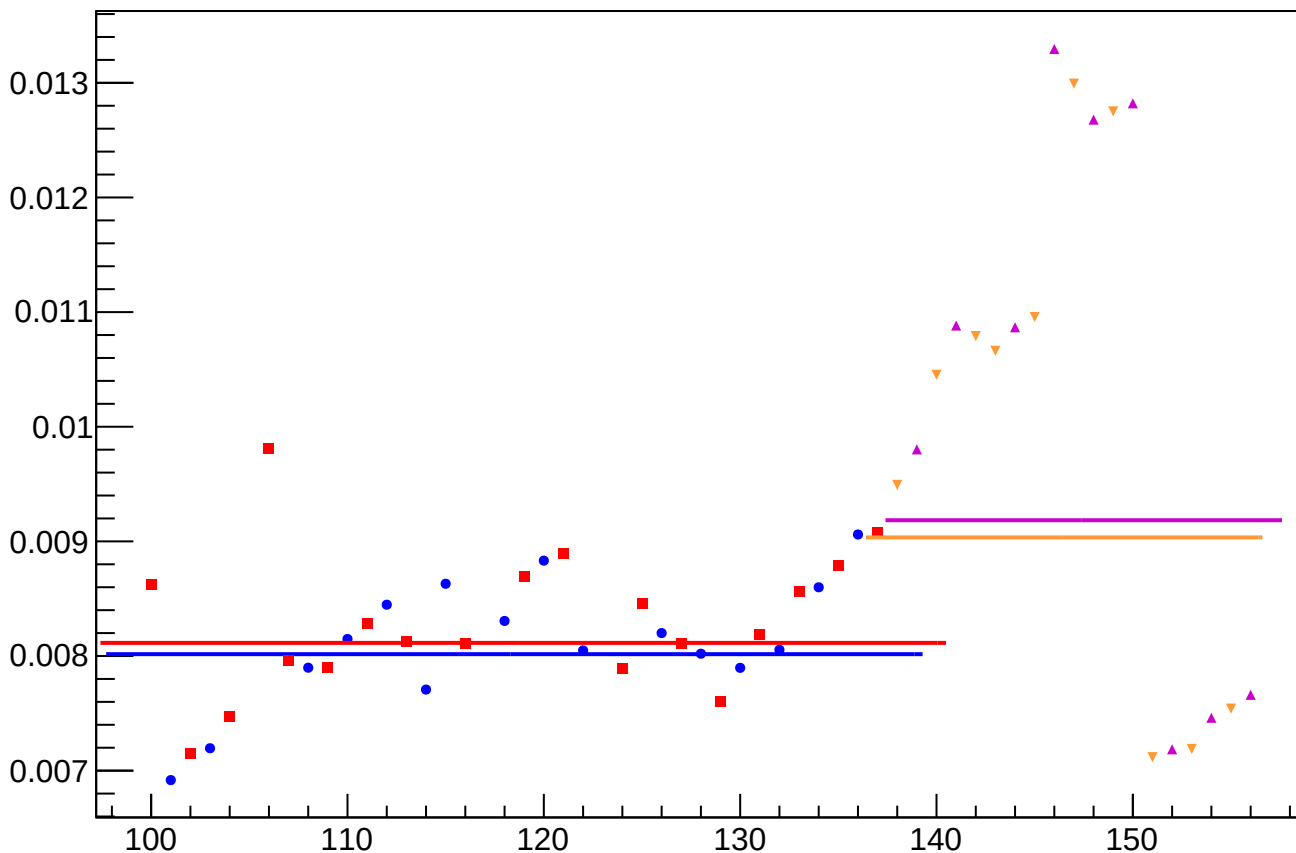
Right: -3.492+/-0.000 χ^2/NDF : 59392057159.0/34

In: -3.066+/-0.000 χ^2/NDF : 72682812932.1/24

Out: -3.041+/-0.000 χ^2/NDF : 85742893337.0/28

All: -3.054+/-0.000 χ^2/NDF : 158488650885.6

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 86232.2/15

Left Out: 0.009+/-0.000 χ^2/NDF : 650415.5/9

Right Out: 0.008+/-0.000 χ^2/NDF : 71067.5/18

Left In: 0.009+/-0.000 χ^2/NDF : 733512.8/8

Left: 0.009+/-0.000 χ^2/NDF : 1385790.0/18

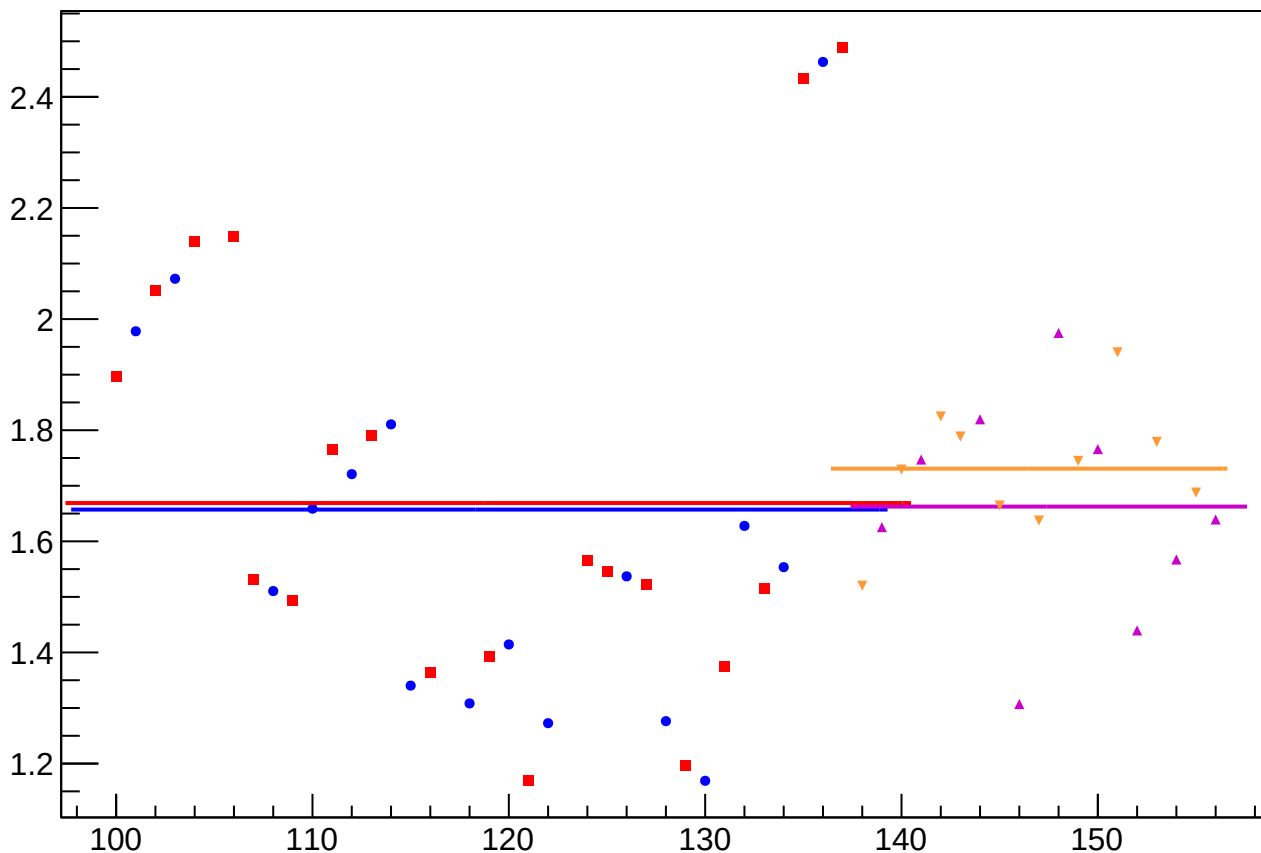
Right: 0.008+/-0.000 χ^2/NDF : 158353.0/34

In: 0.009+/-0.000 χ^2/NDF : 946574.9/24

Out: 0.009+/-0.000 χ^2/NDF : 801543.7/28

All: 0.009+/-0.000 χ^2/NDF : 1748119.6/53

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2 /NDF: 6666154117.3/15

Left Out: 1.731 $\pm$ 0.000 χ^2 /NDF: 719953693.1/9

Right Out: 1.669 $\pm$ 0.000 χ^2 /NDF: 6357589265.5/18

Left In: 1.663 $\pm$ 0.000 χ^2 /NDF: 1549161788.8/8

Left: 1.698 $\pm$ 0.000 χ^2 /NDF: 2394426201.6/18

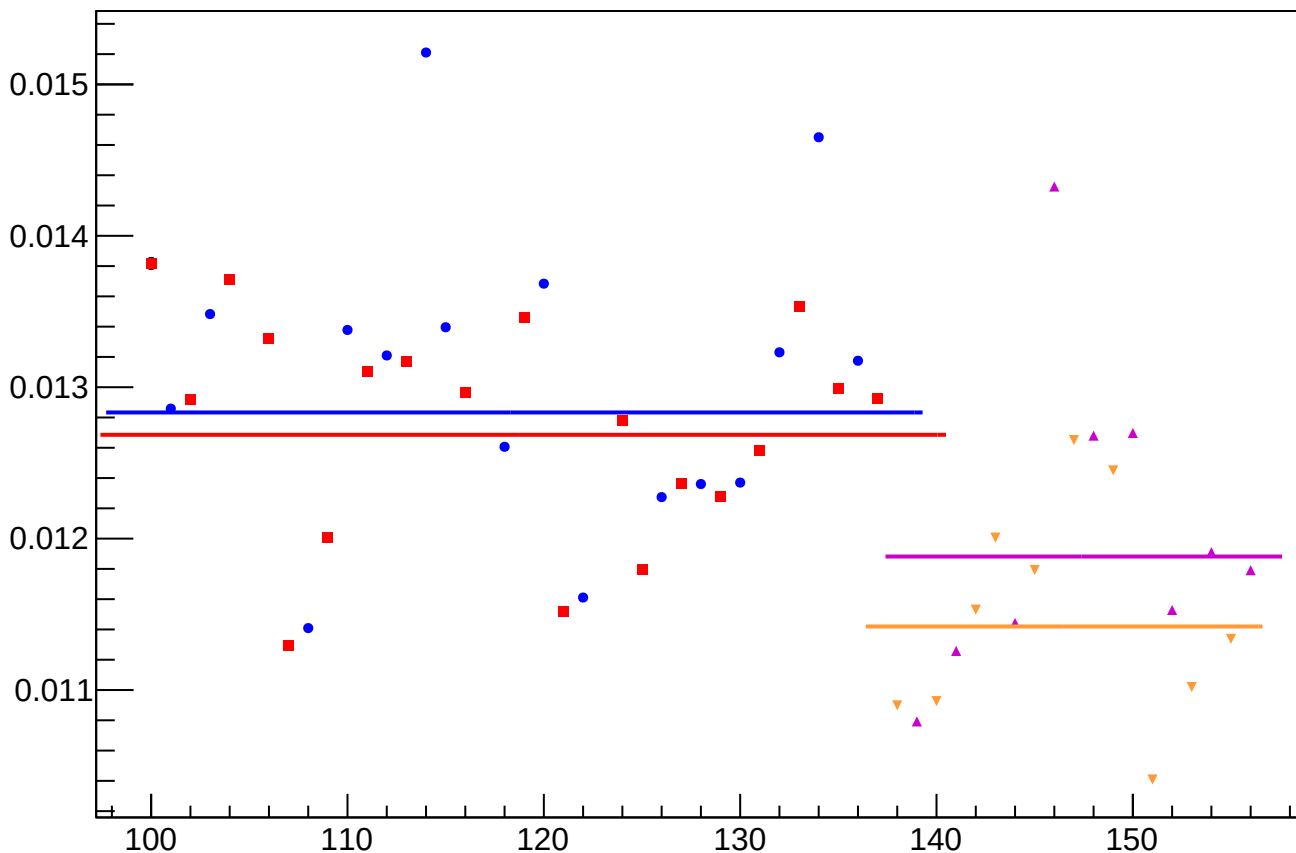
Right: 1.663 $\pm$ 0.000 χ^2 /NDF: 13026763419.8/34

In: 1.660 $\pm$ 0.000 χ^2 /NDF: 8215985225.7/24

Out: 1.703 $\pm$ 0.000 χ^2 /NDF: 7173392774.9/28

All: 1.683 $\pm$ 0.000 χ^2 /NDF: 15481023178.5/5

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 : 53417.6/9

Right Out: 0.013+/-0.000 χ^2/NDF : 43279.9/18

Left In: 0.012+/-0.000 χ^2/NDF : 84550.6/8

Left: 0.012+/-0.000 χ^2/NDF : 149447.1/18

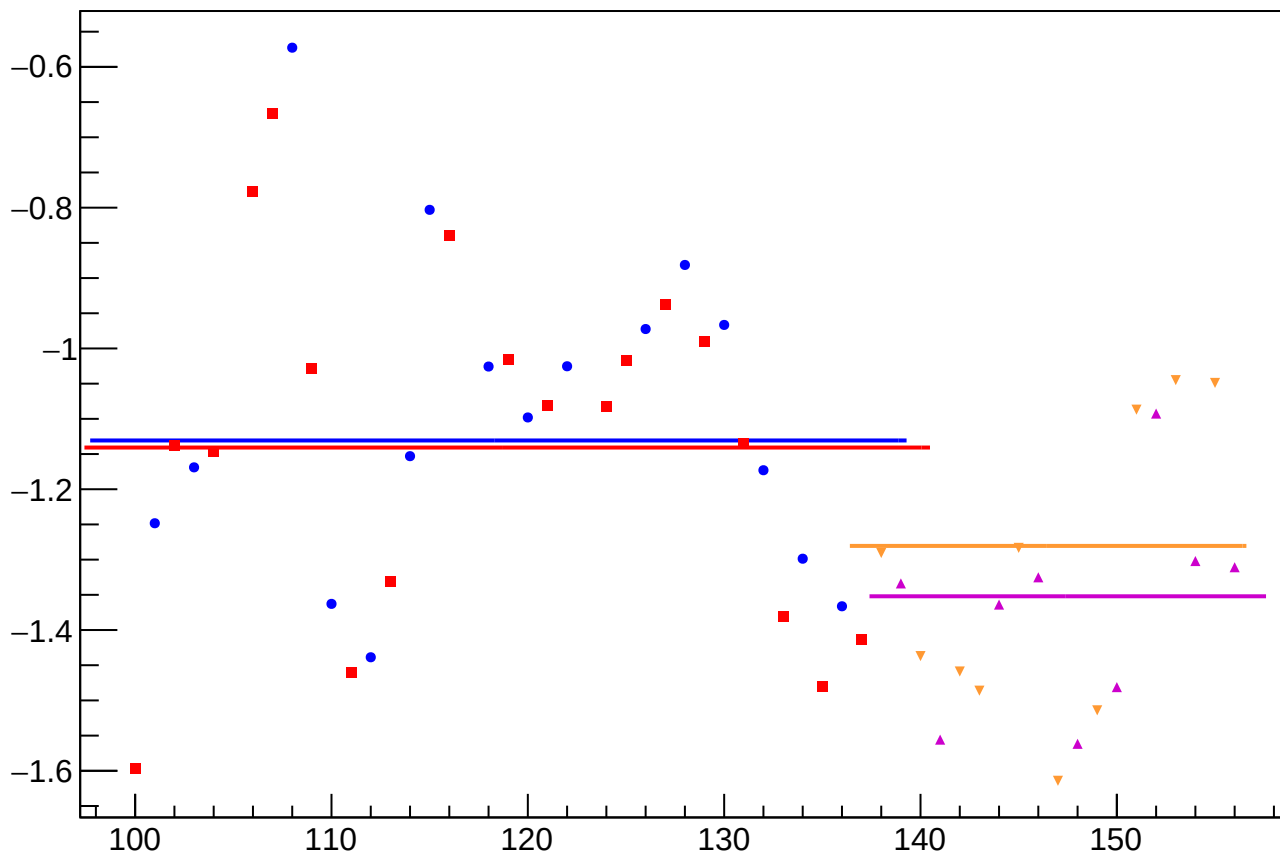
Right: 0.013+/-0.000 χ^2/NDF : 96748.3/34

In: 0.012+/-0.000 χ^2/NDF : 179165.1/24

Out: 0.012+/-0.000 χ^2/NDF : 176900.0/28

All: 0.012+/-0.000 χ^2/NDF : 366998.6/53

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.131+/-0.000 χ^2/NDF : 3790121991.7/15

Left Out: -1.281+/-0.000 χ^2/NDF : 3838978658.4/9

Right Out: -1.141+/-0.000 χ^2/NDF : 3544012262.4/18

Left In: -1.352+/-0.000 χ^2/NDF : 1767263387.3/8

Left: -1.315+/-0.000 χ^2/NDF : 5848271011.3/18

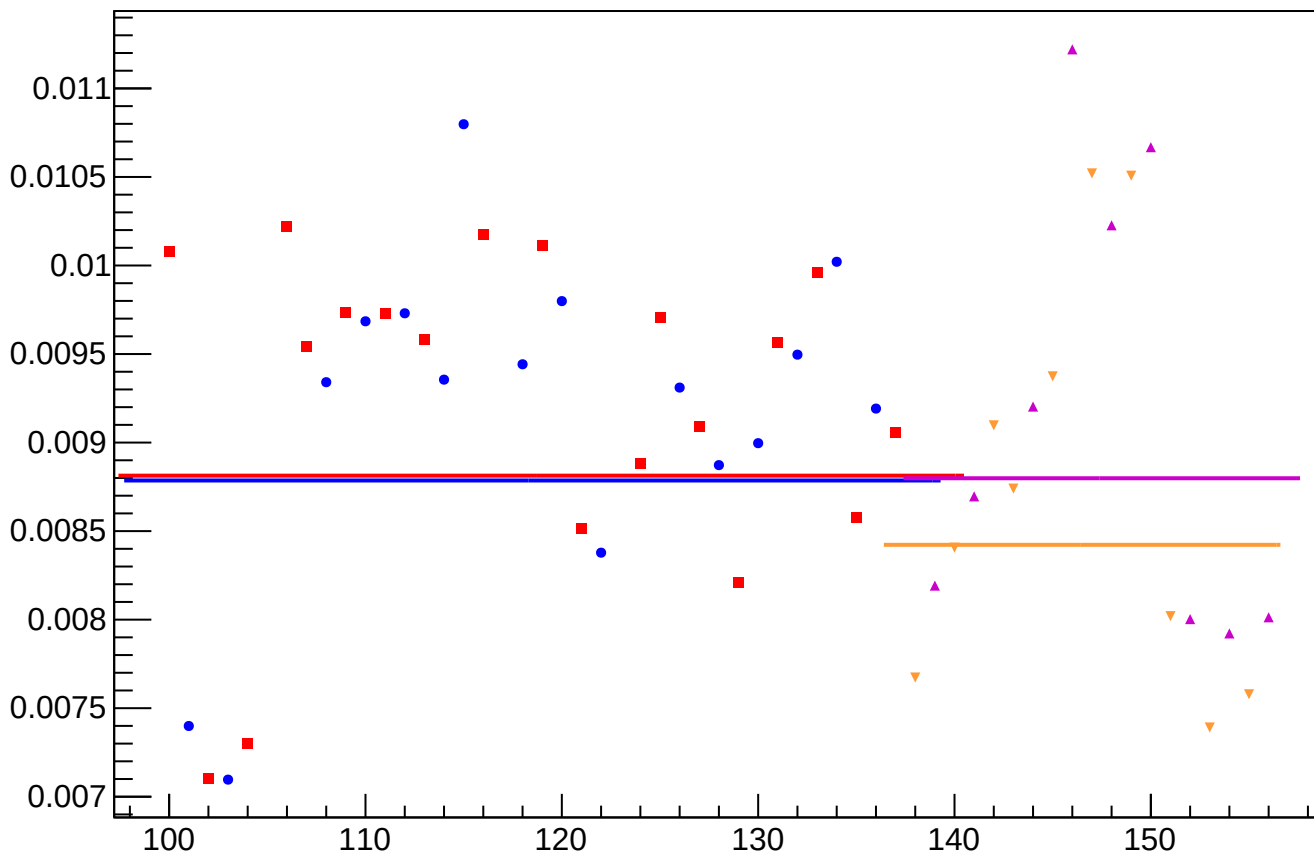
Right: -1.136+/-0.000 χ^2/NDF : 7338628665.5/34

In: -1.243+/-0.000 χ^2/NDF : 7754690258.9/24

Out: -1.214+/-0.000 χ^2/NDF : 8298722972.8/28

All: -1.228+/-0.000 χ^2/NDF : 16127977960.3/...

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 :198330.9/9

Right Out: 0.009+/-0.000 χ^2/NDF : 204443.3/18

Left In: 0.009+/-0.000 χ^2/NDF :203347.4/8

Left: 0.009+/-0.000 χ^2/NDF : 415033.6/18

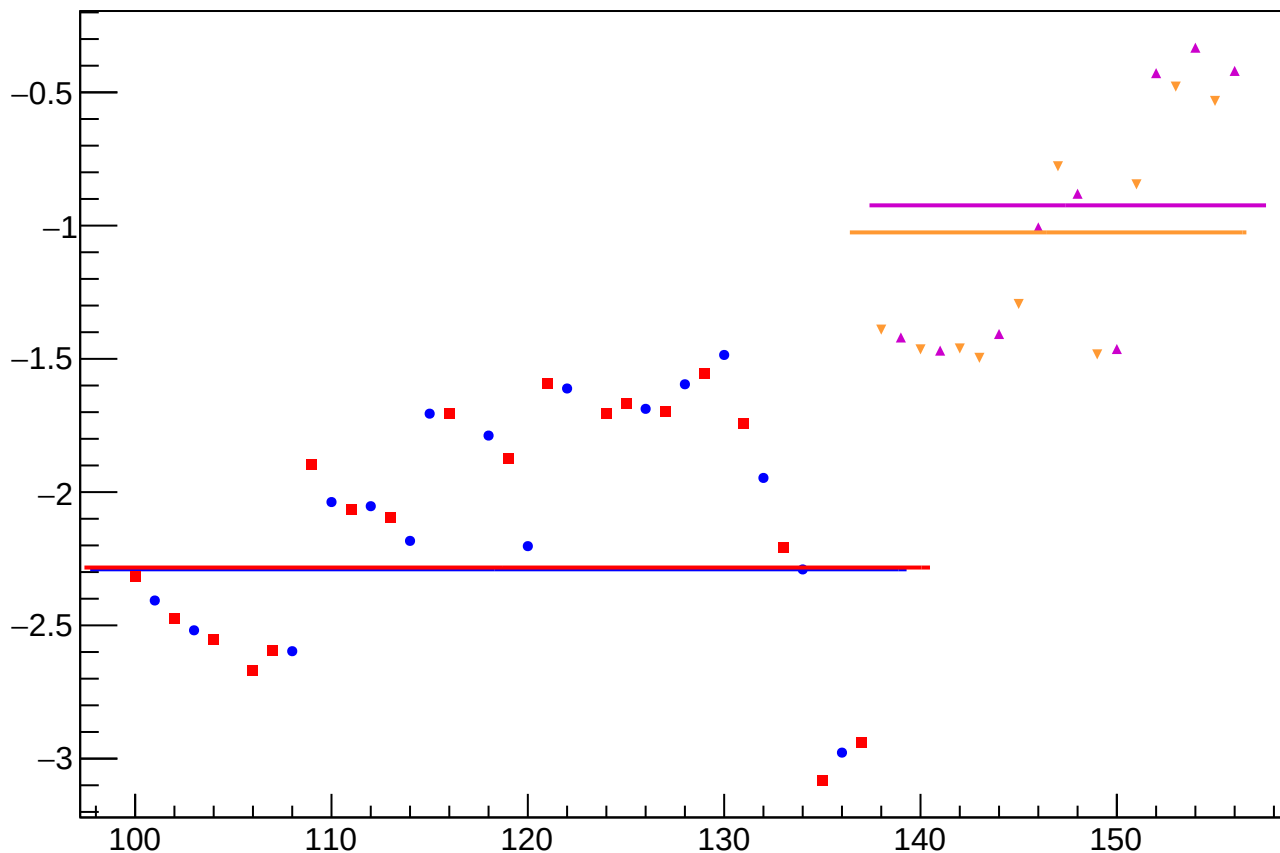
Right: 0.009+/-0.000 χ^2/NDF : 377987.0/34

In: 0.009+/-0.000 χ^2/NDF :376839.3/24

Out: 0.009+/-0.000 χ^2/NDF :417078.4/28

All: 0.009+/-0.000 χ^2/NDF : 800141.2/53

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.290+/-0.000 χ^2/NDF : 15222817978.4/15

Left Out: -1.026+/-0.000 χ^2/NDF : 18323203485.1/9

Right Out: -2.283+/-0.000 χ^2/NDF : 17032219519.1/18

Left In: -0.924+/-0.000 χ^2/NDF : 22756200365.0/8

Left: -0.976+/-0.000 χ^2/NDF : 41645449204.0/18

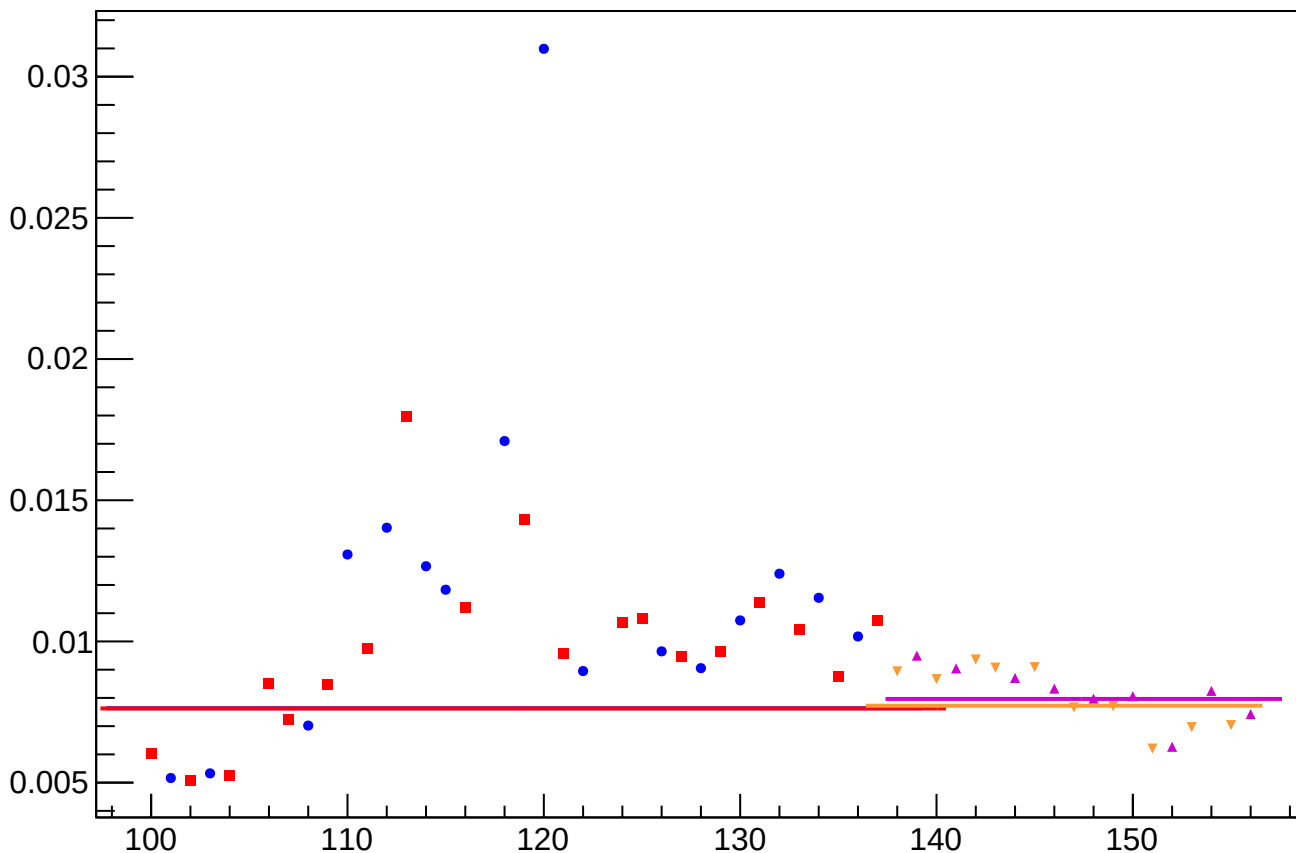
Right: -2.286+/-0.000 χ^2/NDF : 32257076383.6/34

In: -1.538+/-0.000 χ^2/NDF : 127550097567.0/24

Out: -1.601+/-0.000 χ^2/NDF : 117104381063.2/28

All: -1.570+/-0.000 χ^2/NDF : 245048273700.1

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1710797.2/15

Left Out: 0.008+/-0.000 χ^2/NDF :246348.8/9

Right Out: 0.008+/-0.000 χ^2/NDF : 1317740.1/18

Left In: 0.008+/-0.000 χ^2/NDF :200136.1/8

Left: 0.008+/-0.000 χ^2/NDF : 452818.6/18

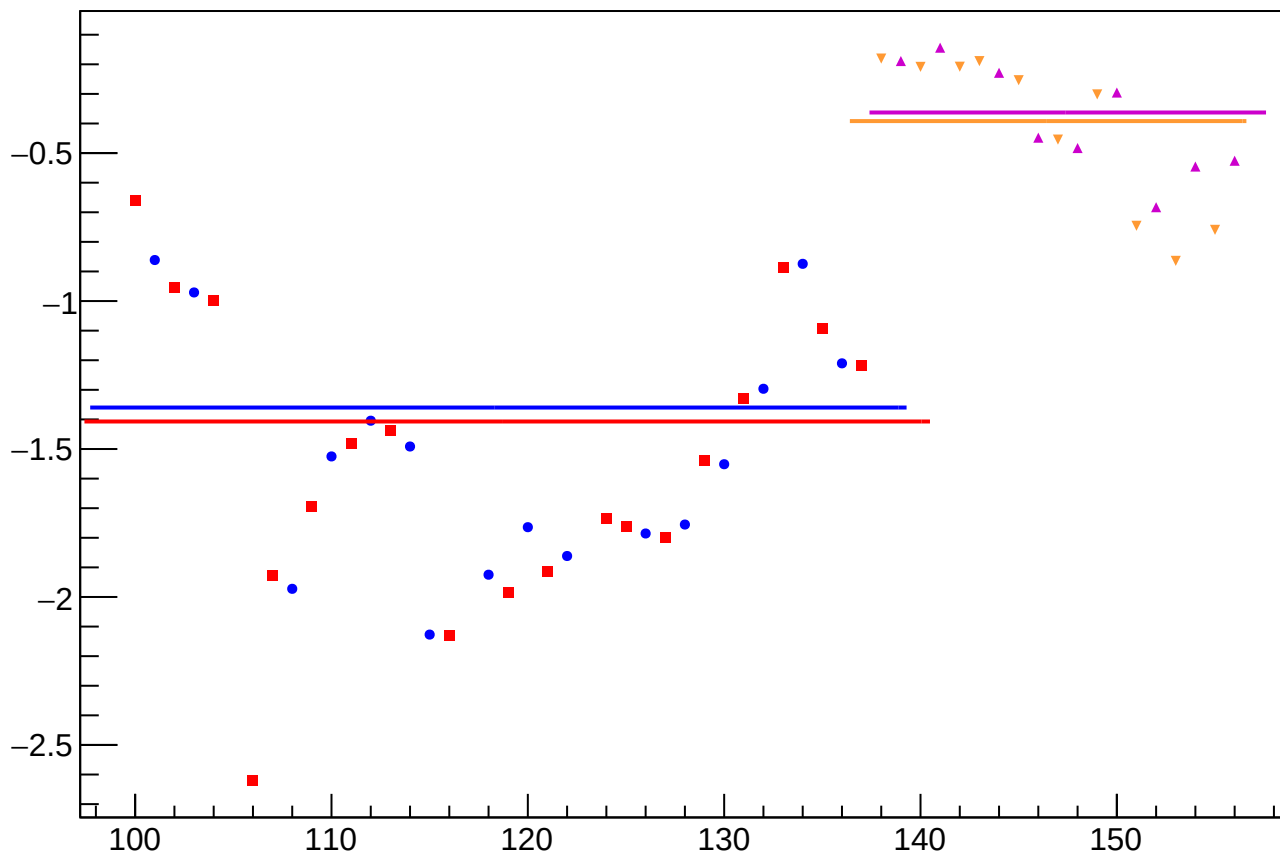
Right: 0.008+/-0.000 χ^2/NDF : 3028539.8/34

In: 0.008+/-0.000 χ^2/NDF :1921464.0/24

Out: 0.008+/-0.000 χ^2/NDF :1565046.8/28

All: 0.008+/-0.000 χ^2/NDF : 3490188.2/53

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.360+/-0.000 χ^2/NDF : 21491965614.5/15

Left Out: -0.392+/-0.000 χ^2/NDF : 21578428476.6/9

Right Out: -1.407+/-0.000 χ^2/NDF : 29835610413.0/18

Left In: -0.363+/-0.000 χ^2/NDF : 9858664486.5/8

Left: -0.378+/-0.000 χ^2/NDF : 31579184754.3/18

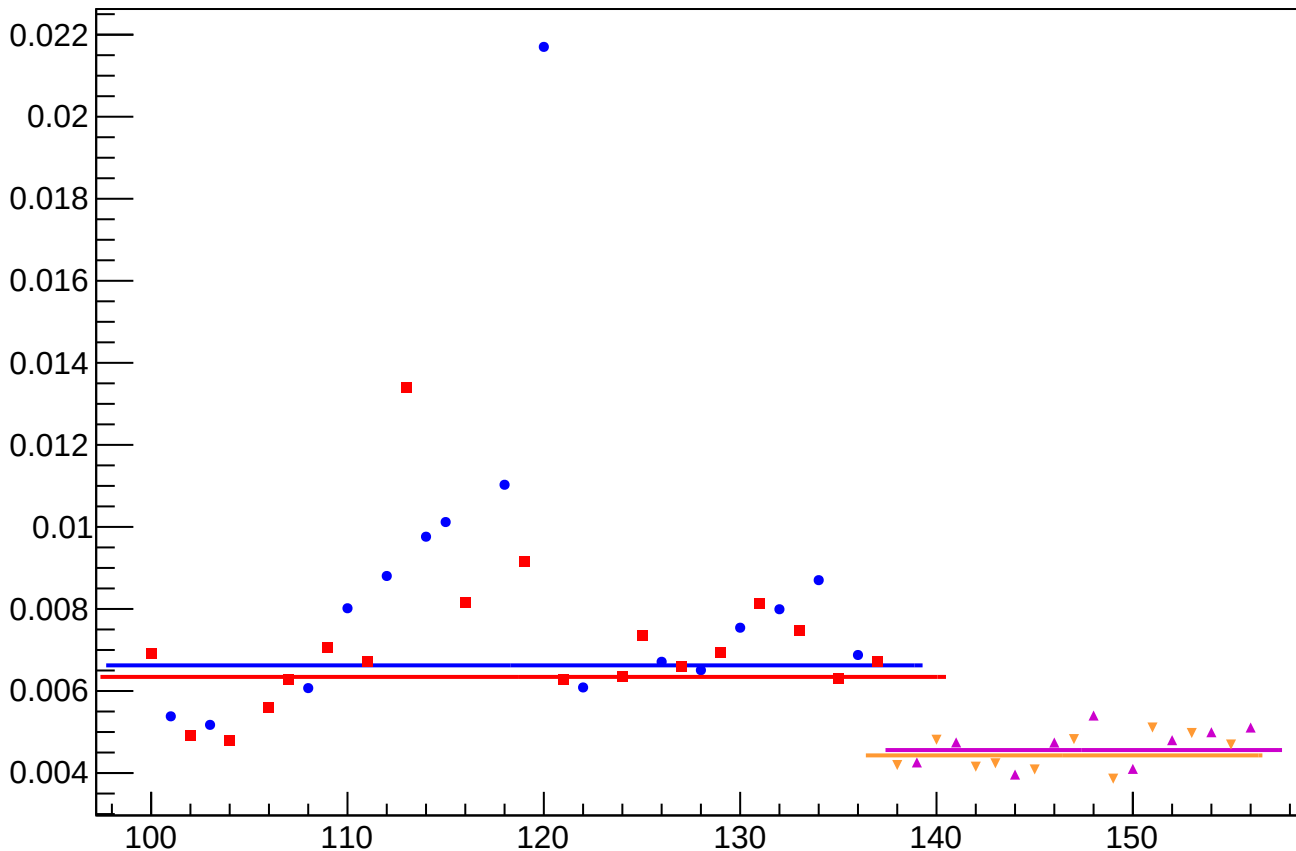
Right: -1.385+/-0.000 χ^2/NDF : 51484688313.9/34

In: -0.650+/-0.000 χ^2/NDF : 124641521280.7/24

Out: -0.700+/-0.000 χ^2/NDF : 160570257463.7/28

All: -0.676+/-0.000 χ^2/NDF : 285796729545.6

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 :116740.8/9

Right Out: 0.006+/-0.000 χ^2/NDF : 529170.9/18

Left In: 0.005+/-0.000 χ^2/NDF :132818.9/8

Left: 0.004+/-0.000 χ^2/NDF : 255293.1/18

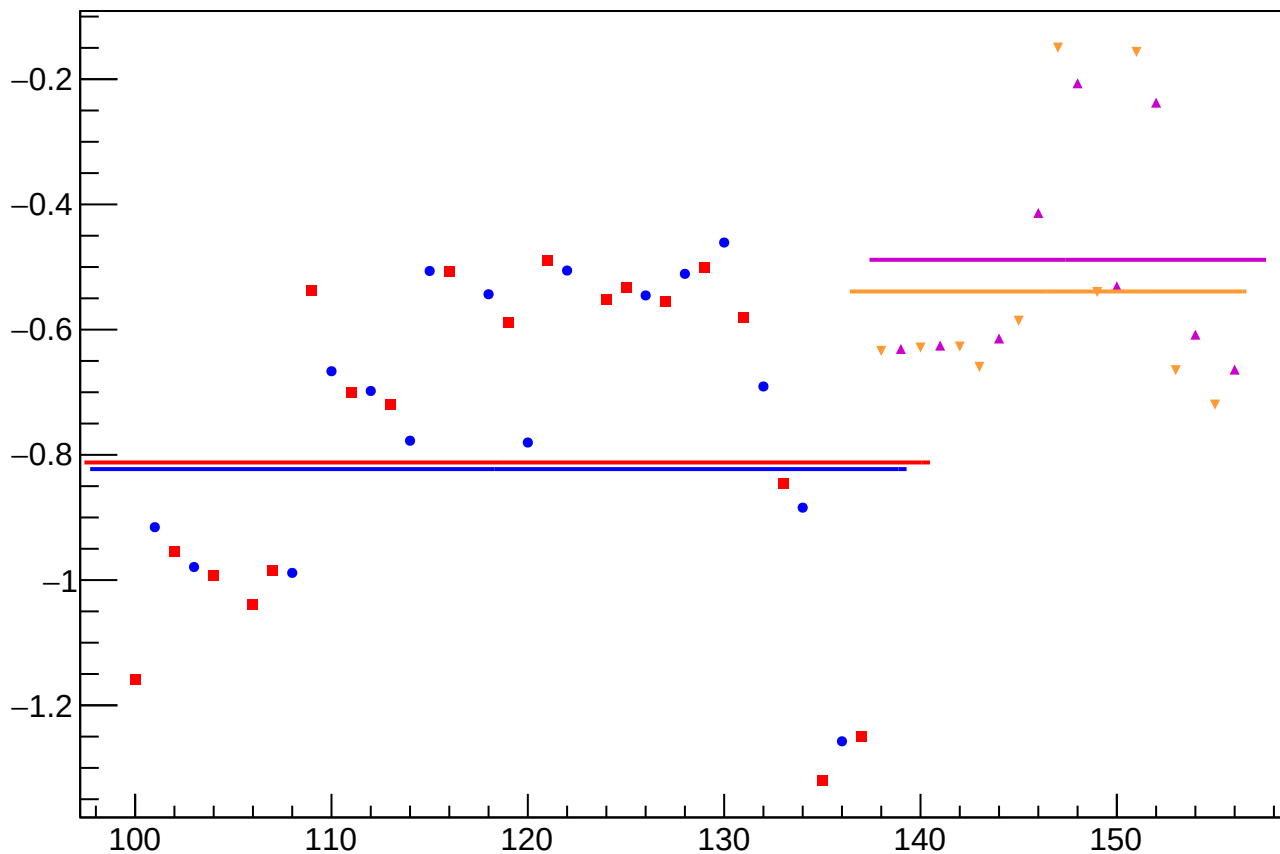
Right: 0.006+/-0.000 χ^2/NDF : 1234142.9/34

In: 0.005+/-0.000 χ^2/NDF :1626452.0/24

Out: 0.005+/-0.000 χ^2/NDF :1421482.4/28

All: 0.005+/-0.000 χ^2/NDF : 3058043.2/53

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.823+/-0.000

χ^2/NDF : 12226599844.5/15

Left: -0.515+/-0.000

χ^2/NDF : 19526912211.1/18

Left Out: -0.539+/-0.000

χ^2/NDF : 11558178430.7/9

Right: -0.817+/-0.000

χ^2/NDF : 27062819602.4/34

Right Out: -0.812+/-0.000

χ^2/NDF : 14825441332.4/18

In: -0.631+/-0.000

χ^2/NDF : 31691654119.2/24

Out: -0.658+/-0.000

χ^2/NDF : 34891022934.0/28

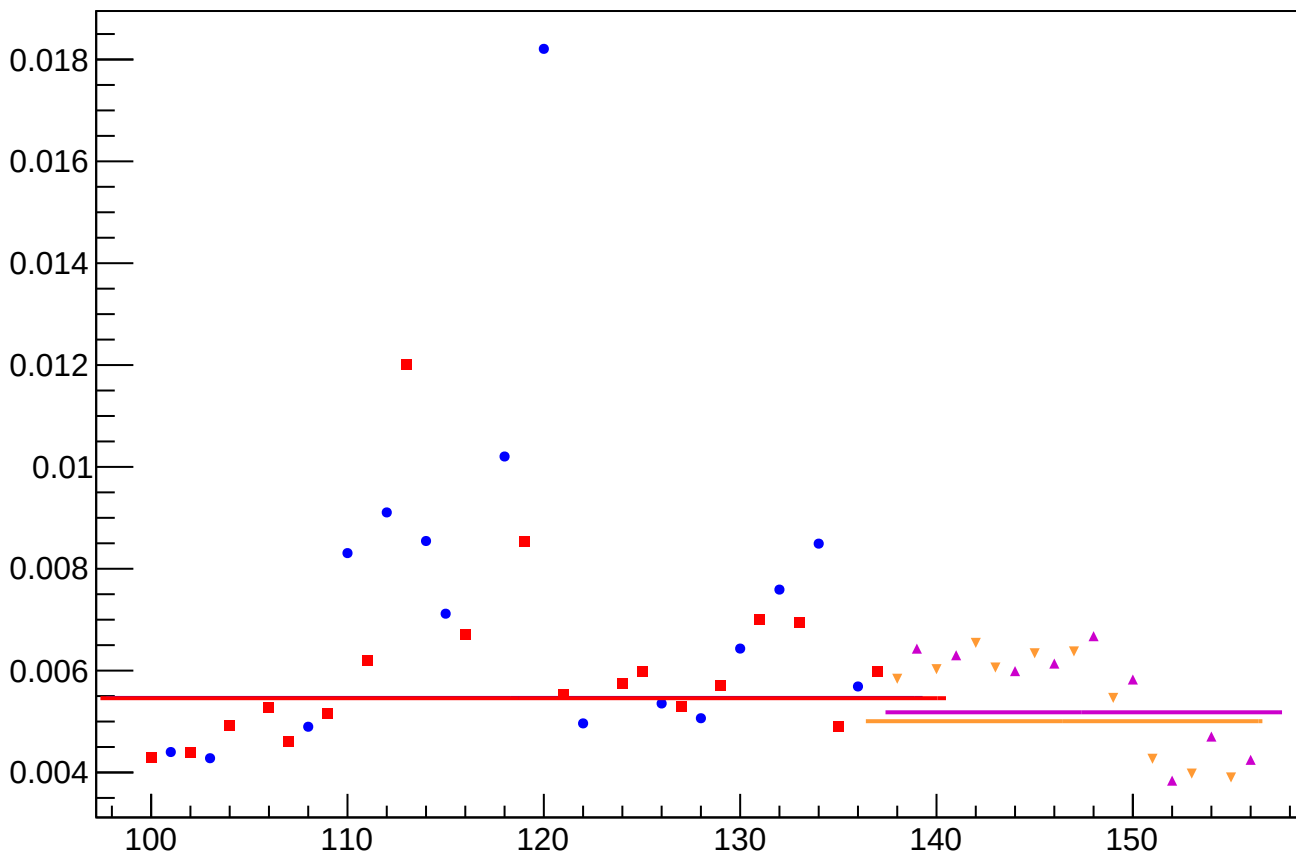
Left In: -0.488+/-0.000

χ^2/NDF : 7642034918.9/8

All: -0.645+/-0.000

χ^2/NDF : 66739888030.7/71

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 961483.6/15

Left Out: 0.005+/-0.000 χ^2/NDF :555542.1/9

Right Out: 0.005+/-0.000 χ^2/NDF : 507792.7/18

Left In: 0.005+/-0.000 χ^2/NDF :544092.4/8

Left: 0.005+/-0.000 χ^2/NDF : 1107441.9/18

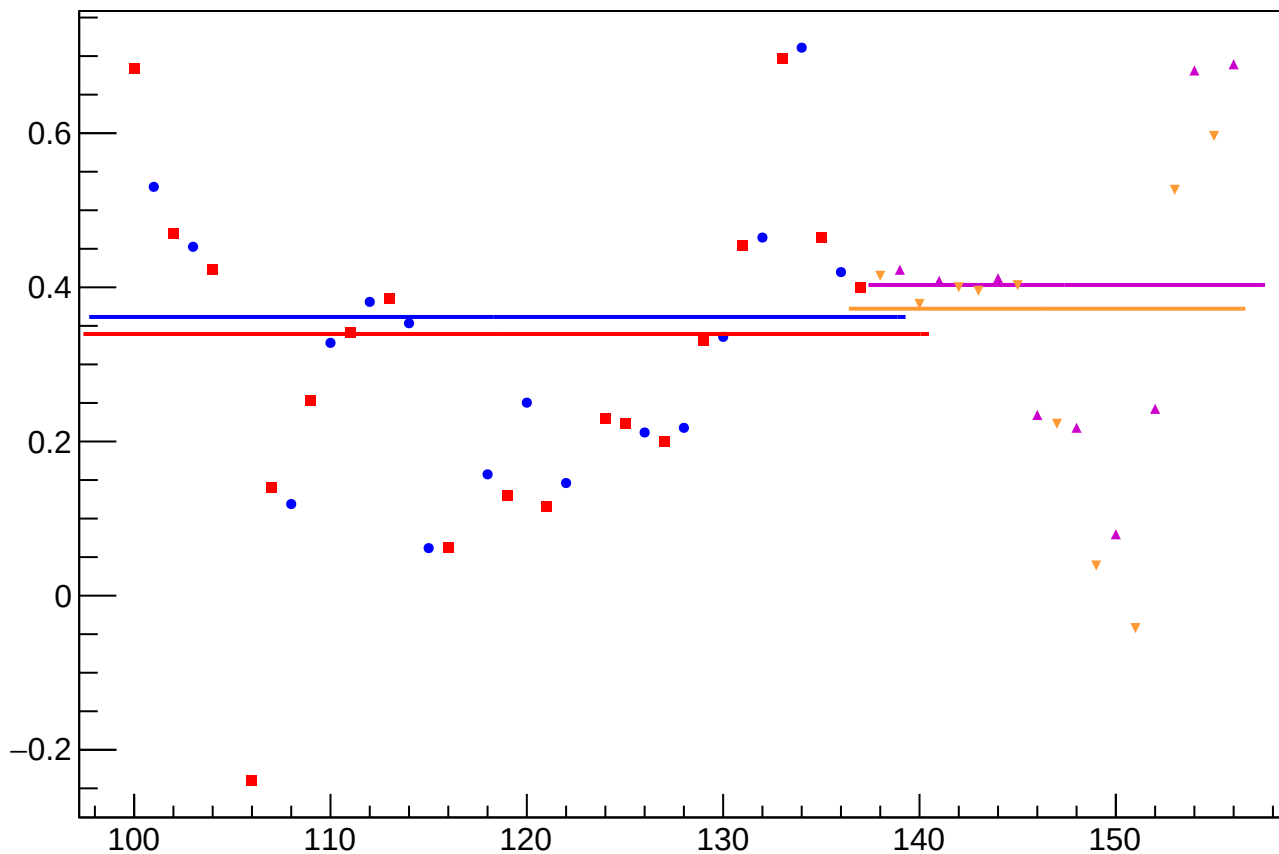
Right: 0.005+/-0.000 χ^2/NDF : 1469281.0/34

In: 0.005+/-0.000 χ^2/NDF :1522376.4/24

Out: 0.005+/-0.000 χ^2/NDF :1109908.3/28

All: 0.005+/-0.000 χ^2/NDF : 2636678.0/53

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.362 $\pm$ 0.000 χ^2 /NDF: 8775952187.9/15

Left Out: 0.372 $\pm$ 0.000 χ^2 /NDF:13348838393.7/9

Right Out: 0.339 $\pm$ 0.000 χ^2 /NDF: 12071802789.9/18

Left In: 0.403 $\pm$ 0.000 χ^2 /NDF:12803429974.0/8

Left: 0.387 $\pm$ 0.000 χ^2 /NDF: 26327495209.6/18

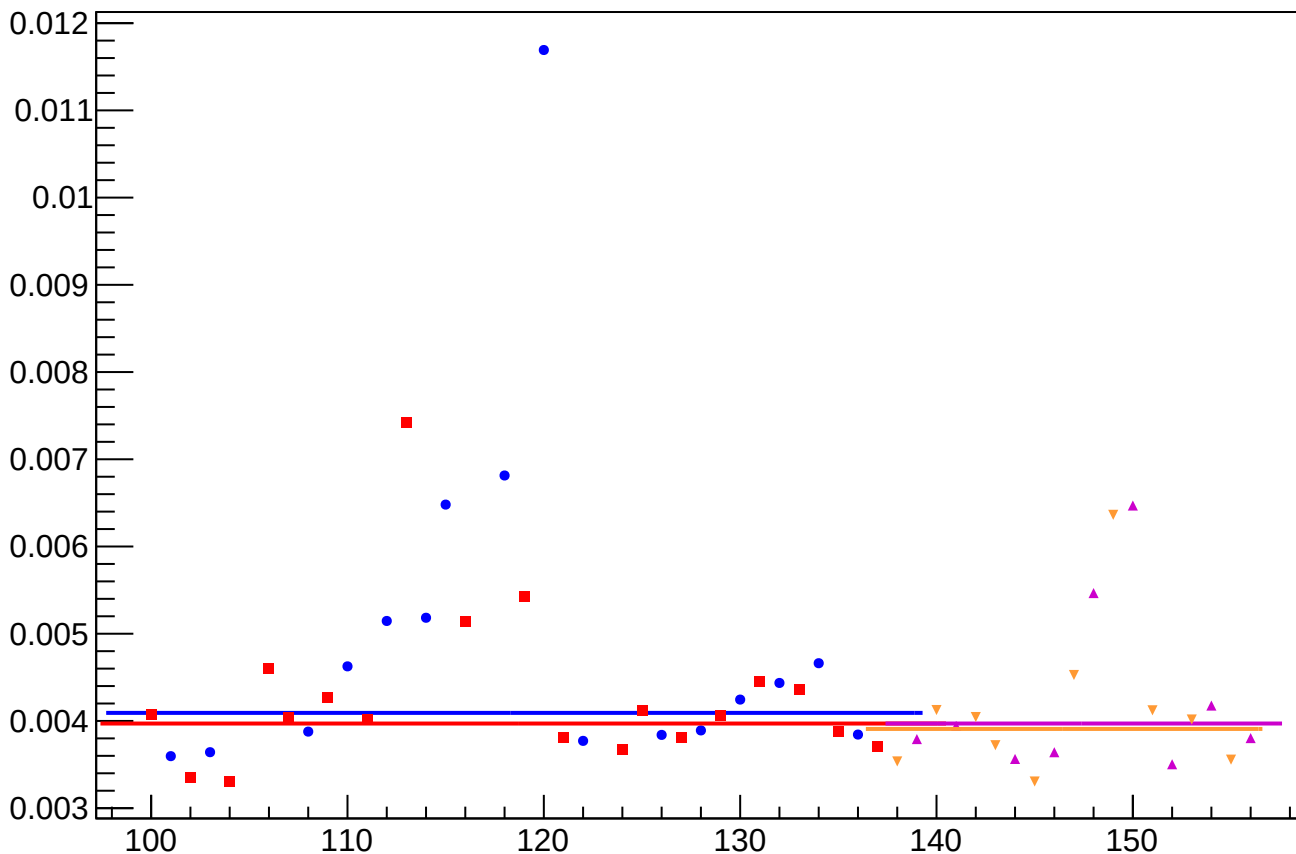
Right: 0.350 $\pm$ 0.000 χ^2 /NDF: 20941665635.5/34

In: 0.382 $\pm$ 0.000 χ^2 /NDF:21894041364.5/24

Out: 0.355 $\pm$ 0.000 χ^2 /NDF:25630193894.4/28

All: 0.368 $\pm$ 0.000 χ^2 /NDF: 47801008598.3/5

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 :291511.5/9

Right Out: 0.004+/-0.000 χ^2/NDF : 313701.1/18

Left In: 0.004+/-0.000 χ^2/NDF :363588.6/8

Left: 0.004+/-0.000 χ^2/NDF : 656523.5/18

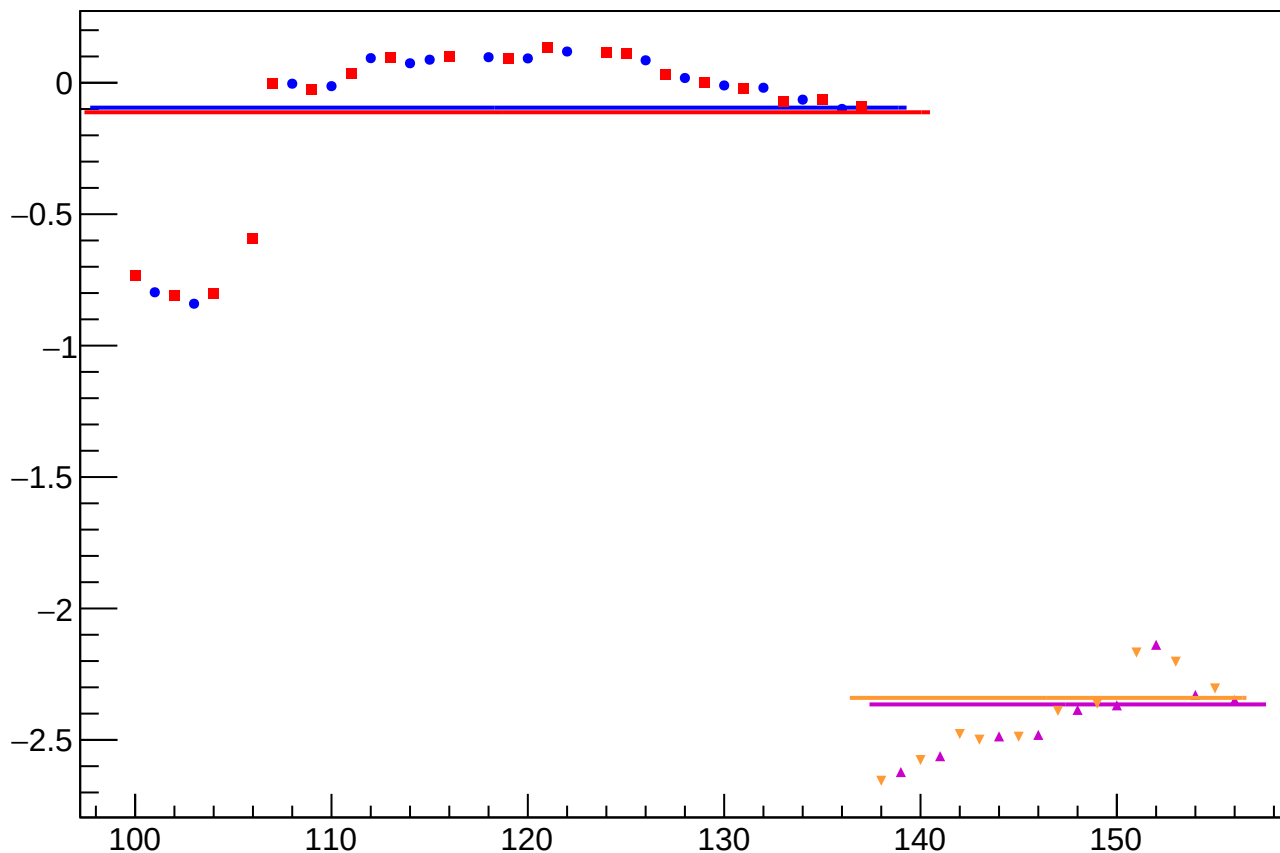
Right: 0.004+/-0.000 χ^2/NDF : 811192.6/34

In: 0.004+/-0.000 χ^2/NDF :860766.7/24

Out: 0.004+/-0.000 χ^2/NDF :606708.7/28

All: 0.004+/-0.000 χ^2/NDF : 1473717.2/53

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.095+/-0.000 χ^2/NDF : 5489721985.1/15

Left Out: -2.340+/-0.000 χ^2/NDF : 1515441053.9/9

Right Out: -0.112+/-0.000 χ^2/NDF : 6190163375.6/18

Left In: -2.365+/-0.000 χ^2/NDF : 1198646175.2/8

Left: -2.352+/-0.000 χ^2/NDF : 2731760962.9/18

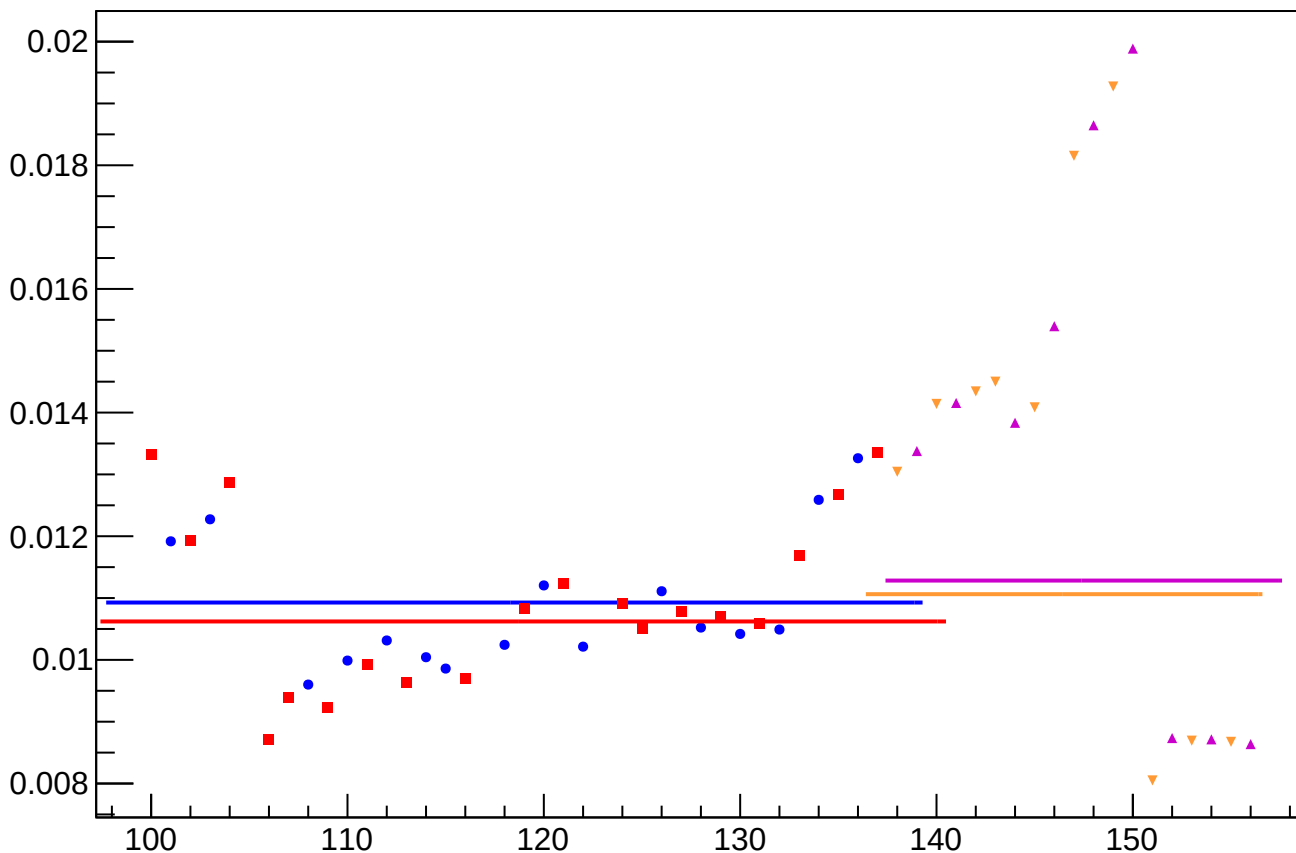
Right: -0.104+/-0.000 χ^2/NDF : 11689577002.2/34

In: -1.192+/-0.000 χ^2/NDF : 155314374309.9/24

Out: -1.159+/-0.000 χ^2/NDF : 160145711120.3/28

All: -1.175+/-0.000 χ^2/NDF : 315523842930.0

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 136478.1/15

Left Out: 0.011+/-0.000 χ^2/NDF :1355818.6/9

Right Out: 0.011+/-0.000 χ^2/NDF : 190526.1/18

Left In: 0.011+/-0.000 χ^2/NDF :1346727.4/8

Left: 0.011+/-0.000 χ^2/NDF : 2705302.8/18

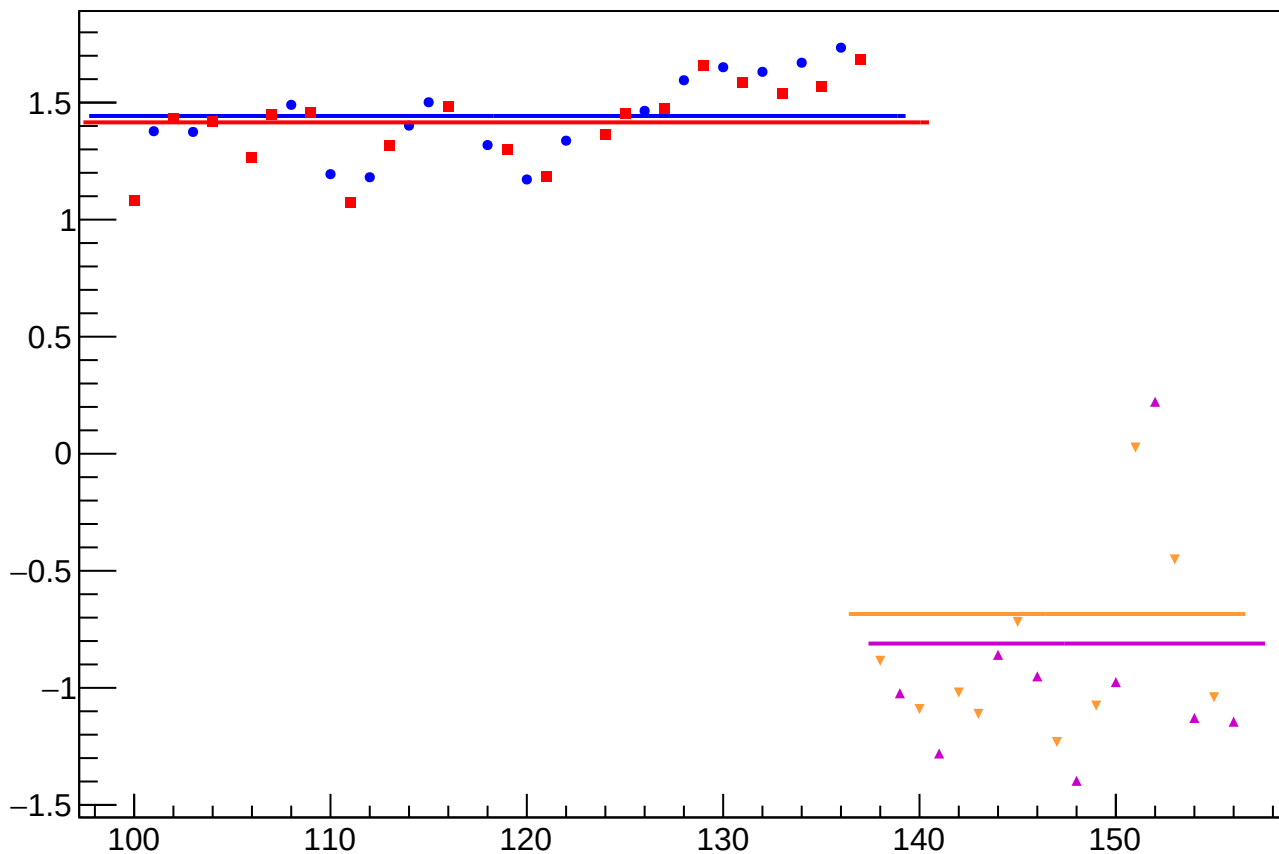
Right: 0.011+/-0.000 χ^2/NDF : 332847.6/34

In: 0.011+/-0.000 χ^2/NDF :1490486.9/24

Out: 0.011+/-0.000 χ^2/NDF :1558305.9/28

All: 0.011+/-0.000 χ^2/NDF : 3057515.8/53

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.443+/-0.000 χ^2/NDF : 3739724691.1/15

Left Out: -0.684+/-0.000 χ^2/NDF : 21328252059.6/9

Right Out: 1.415+/-0.000 χ^2/NDF : 2803466123.0/18

Left In: -0.811+/-0.000 χ^2/NDF : 34128086891.3/8

Left: -0.748+/-0.000 χ^2/NDF : 56323426697.6/18

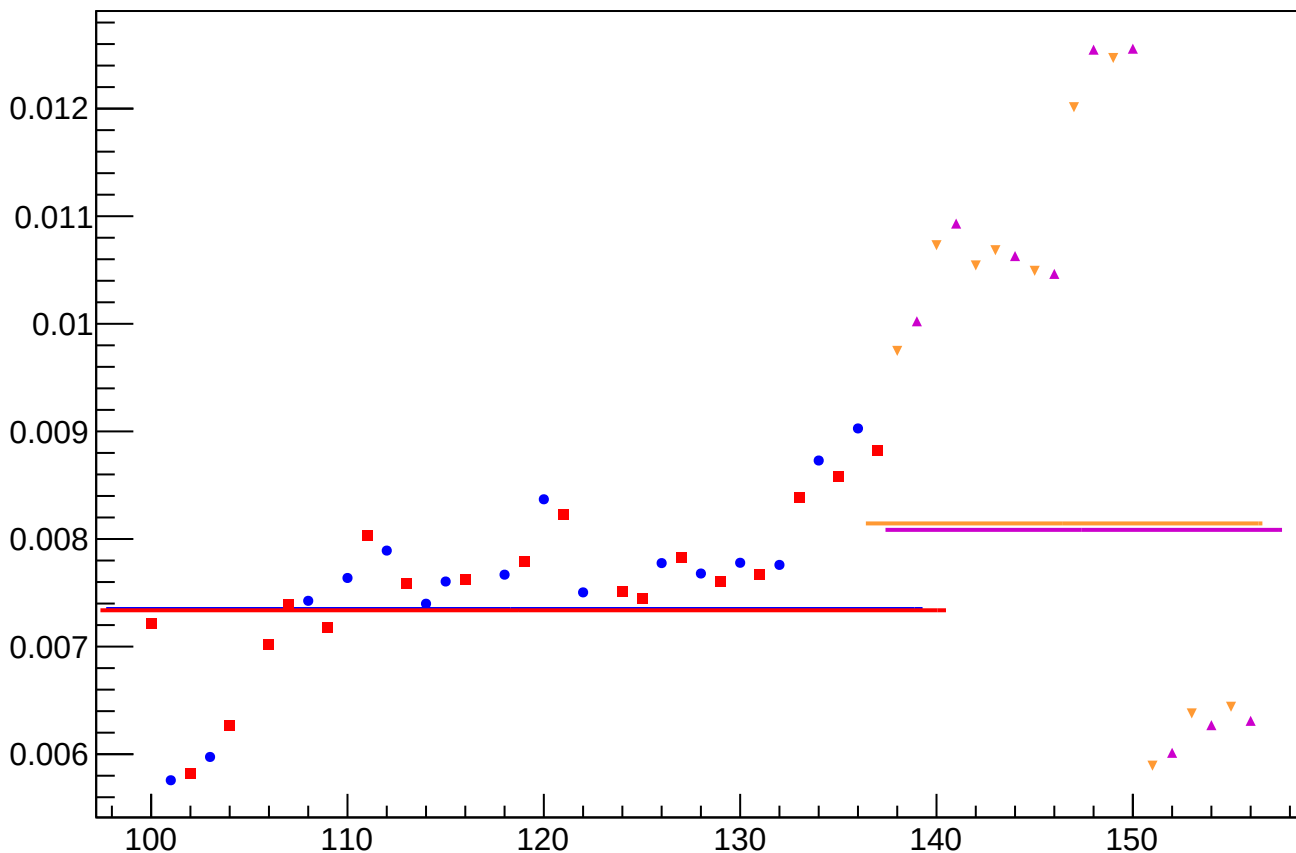
Right: 1.429+/-0.000 χ^2/NDF : 6593016759.0/34

In: 0.417+/-0.000 χ^2/NDF : 340252630138.4/24

Out: 0.488+/-0.000 χ^2/NDF : 290747324820.6/28

All: 0.453+/-0.000 χ^2/NDF : 631614663264.7

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 270864.2/15

Left Out: 0.008+/-0.000 χ^2/NDF :1207927.3/9

Right Out: 0.007+/-0.000 χ^2/NDF : 195372.6/18

Left In: 0.008+/-0.000 χ^2/NDF :1295273.2/8

Left: 0.008+/-0.000 χ^2/NDF : 2503589.1/18

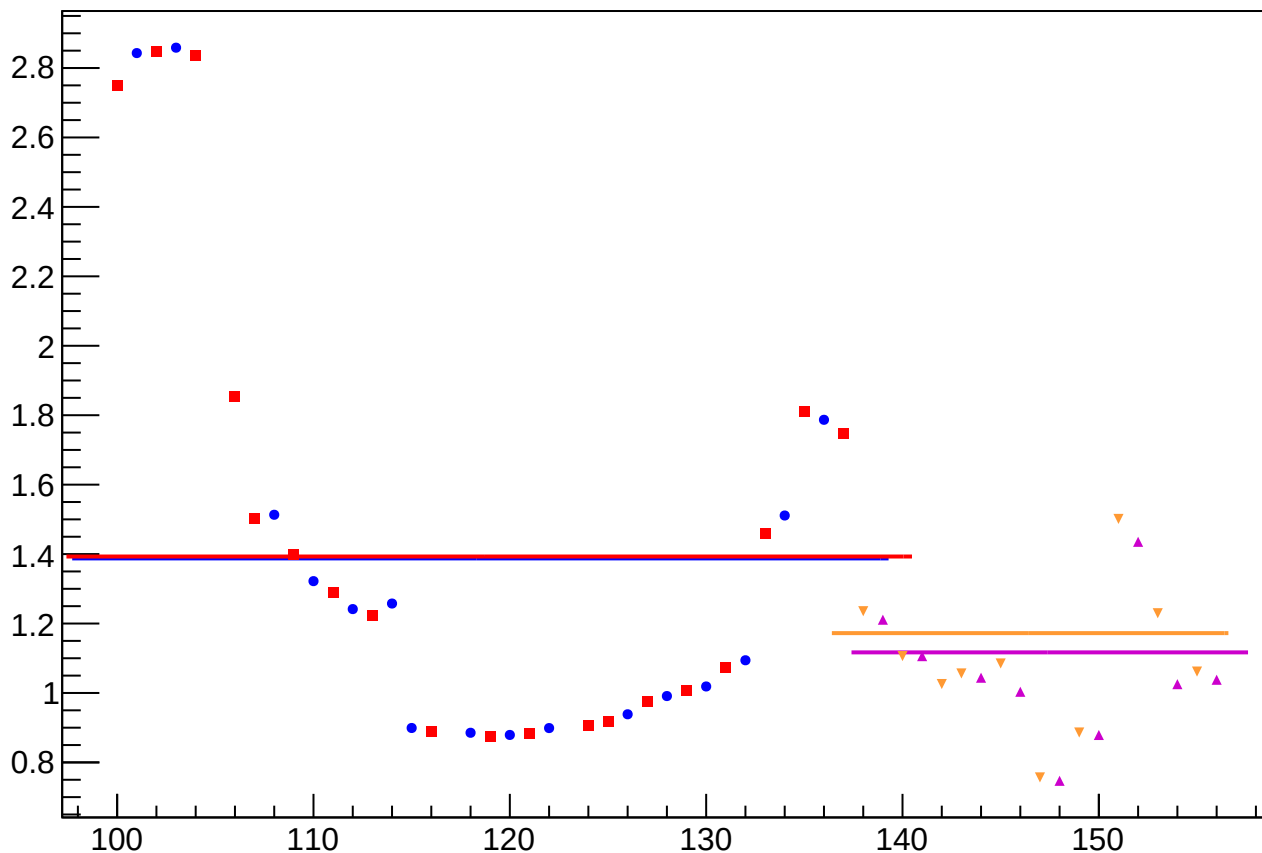
Right: 0.007+/-0.000 χ^2/NDF : 466255.6/34

In: 0.008+/-0.000 χ^2/NDF :1630566.8/24

Out: 0.008+/-0.000 χ^2/NDF :1482080.3/28

All: 0.008+/-0.000 χ^2/NDF : 3112670.2/53

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.388 $\pm$ 0.000 χ^2 /NDF: 58612635453.0/15

Left Out: 1.172 $\pm$ 0.000 χ^2 /NDF: 4574199622.3/9

Right Out: 1.393 $\pm$ 0.000 χ^2 /NDF: 55365724659.7/18

Left In: 1.117 $\pm$ 0.000 χ^2 /NDF: 3988182608.1/8

Left: 1.145 $\pm$ 0.000 χ^2 /NDF: 8748836843.0/18

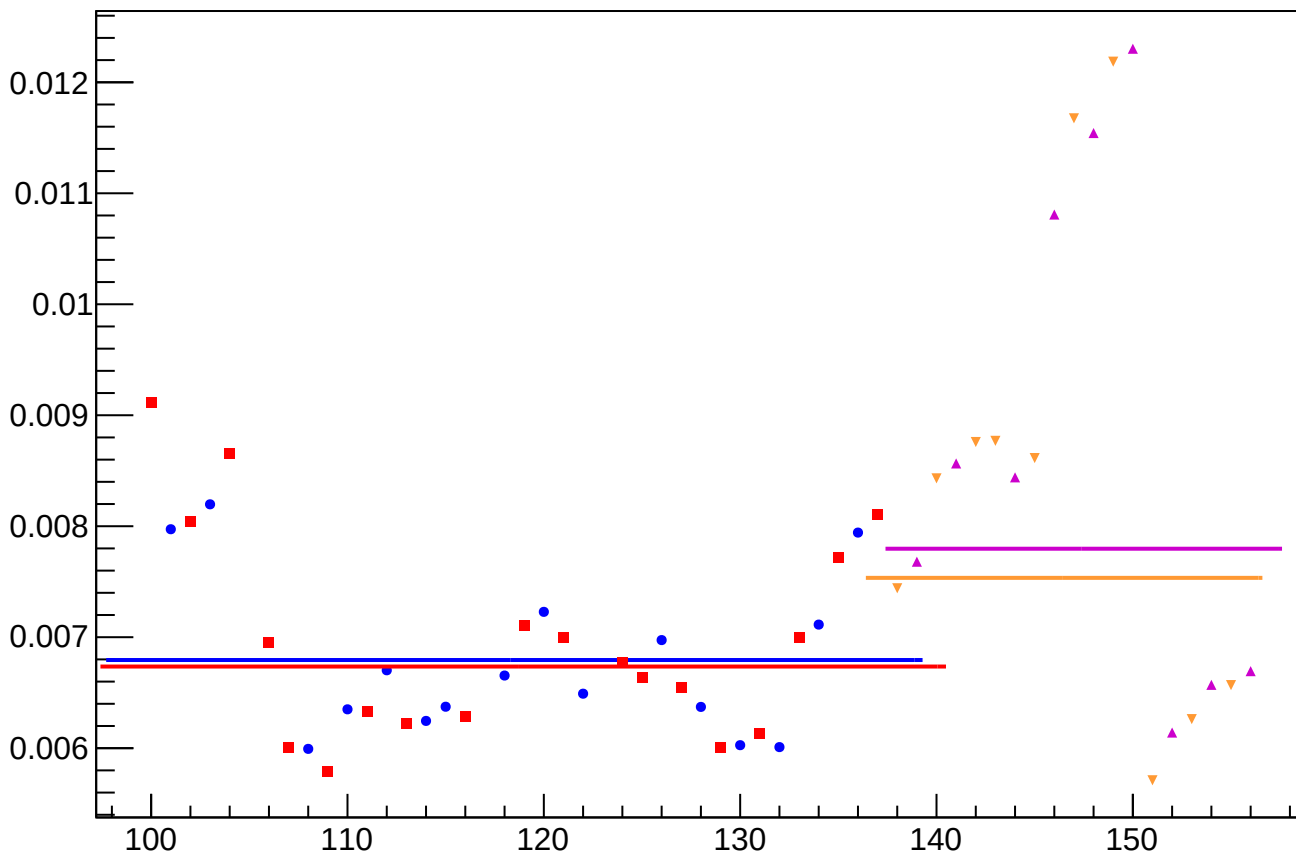
Right: 1.390 $\pm$ 0.000 χ^2 /NDF: 113980694957.7/34

In: 1.270 $\pm$ 0.000 χ^2 /NDF: 67487182445.3/24

Out: 1.297 $\pm$ 0.000 χ^2 /NDF: 63377243101.4/28

All: 1.284 $\pm$ 0.000 χ^2 /NDF: 130963948377.7

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 : 756952.6/9

Right Out: 0.007+/-0.000 χ^2/NDF : 198492.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 765554.7/8

Left: 0.008+/-0.000 χ^2/NDF : 1530864.9/18

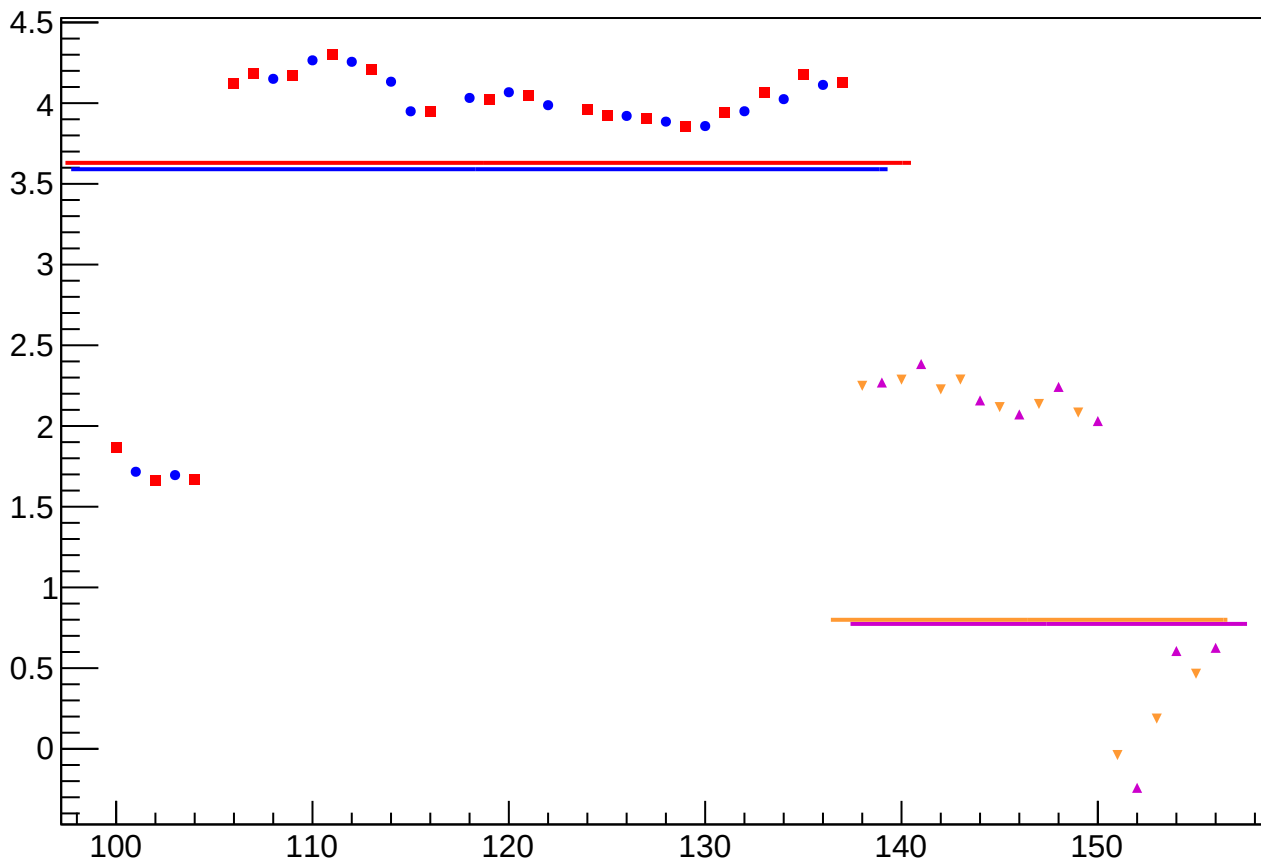
Right: 0.007+/-0.000 χ^2/NDF : 363493.8/34

In: 0.007+/-0.000 χ^2/NDF : 1064172.4/24

Out: 0.007+/-0.000 χ^2/NDF : 1045600.4/28

All: 0.007+/-0.000 χ^2/NDF : 2115687.3/53

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.591+/-0.000 χ^2/NDF : 202184644473.7/15

Left Out: 0.800+/-0.000 χ^2/NDF : 234955248889.5/9

Right Out: 3.630+/-0.000 χ^2/NDF : 212588390342.3/18

Left In: 0.774+/-0.000 χ^2/NDF : 238229690369.0/8

Left: 0.786+/-0.000 χ^2/NDF : 473275454461.3/18

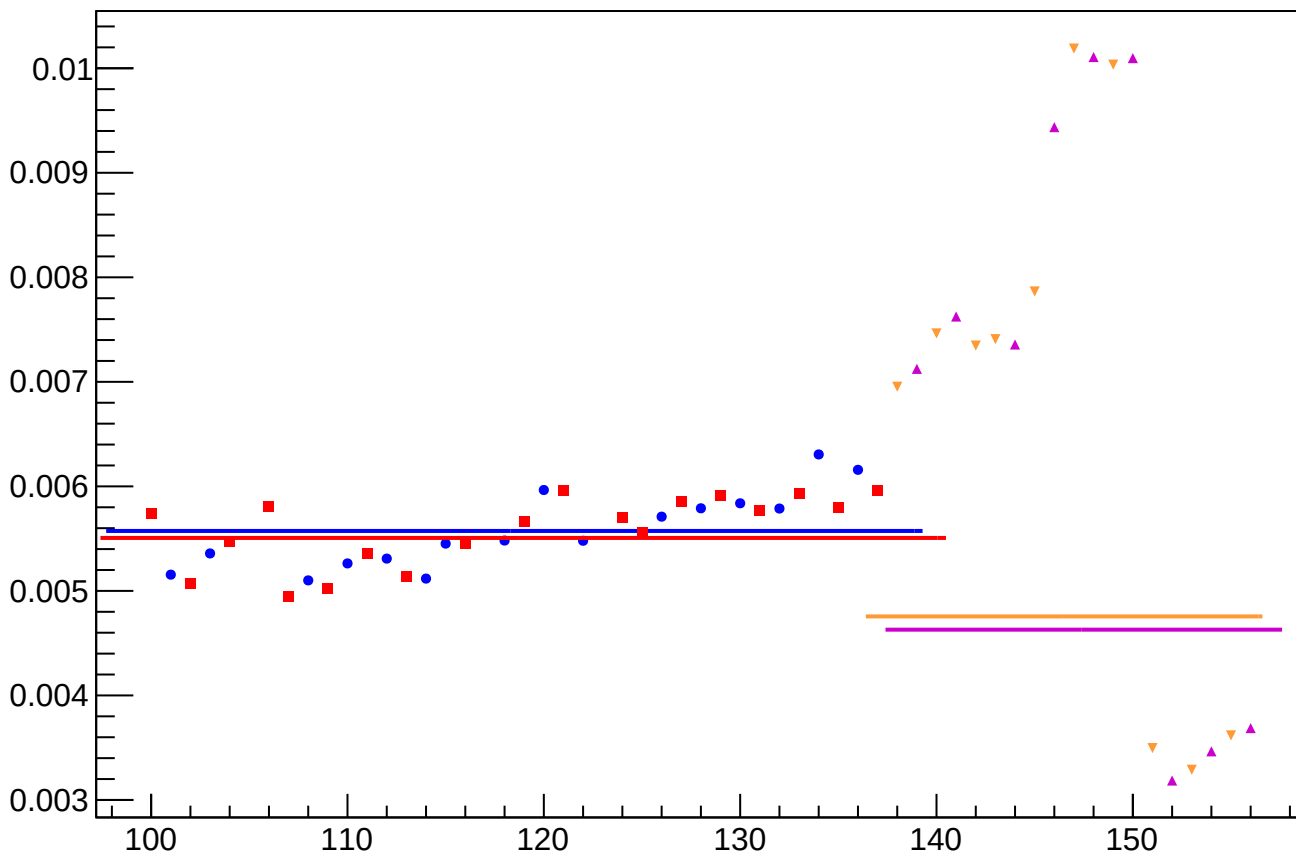
Right: 3.611+/-0.000 χ^2/NDF : 414956393826.7/34

In: 2.036+/-0.000 χ^2/NDF : 1451052543185.6/24

Out: 2.130+/-0.000 χ^2/NDF : 1470349788116.8/28

All: 2.082+/-0.000 χ^2/NDF : 2923674874479.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 59130.1/15

Left Out: 0.005+/-0.000 χ^2/NDF : 2404272.4/9

Right Out: 0.006+/-0.000 χ^2/NDF : 57427.9/18

Left In: 0.005+/-0.000 χ^2/NDF : 2685363.4/8

Left: 0.005+/-0.000 χ^2/NDF : 5094089.6/18

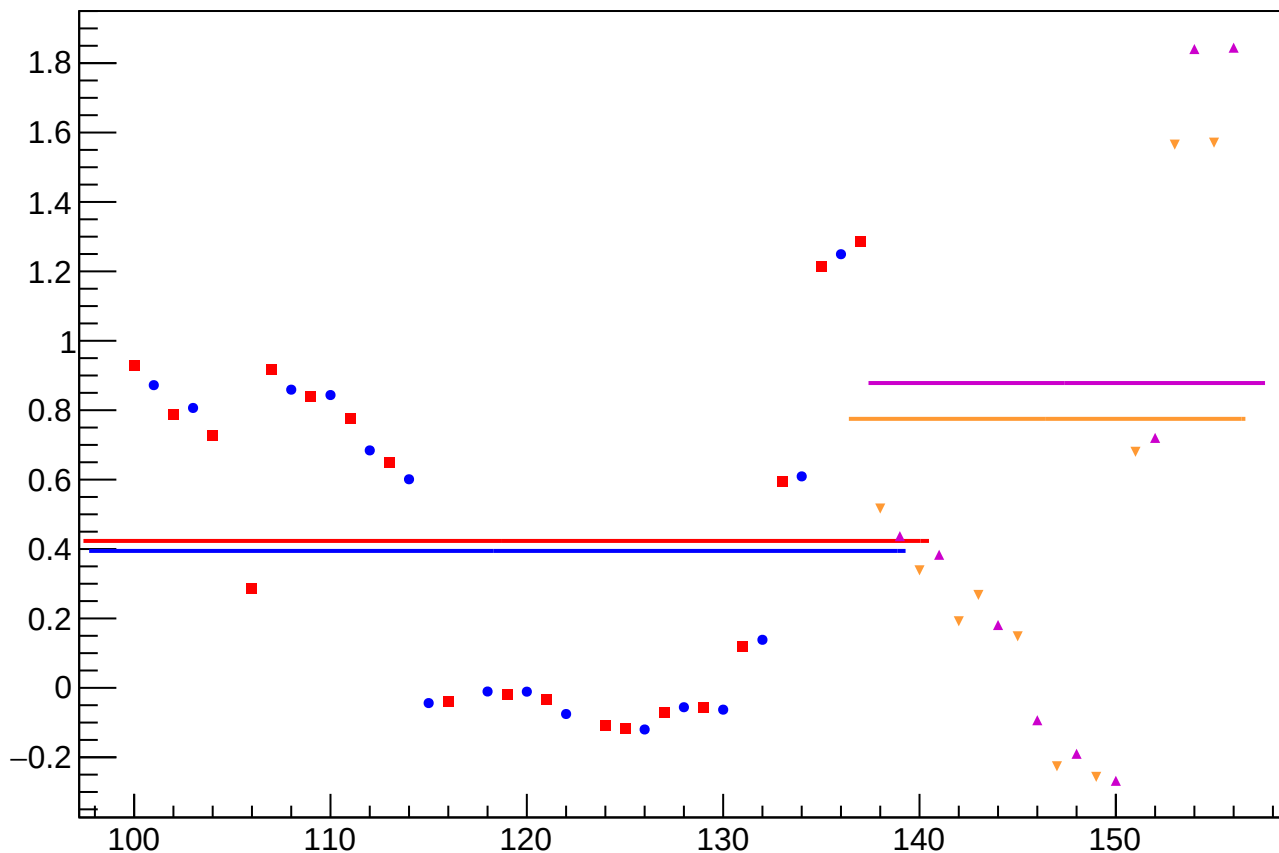
Right: 0.006+/-0.000 χ^2/NDF : 117612.2/34

In: 0.005+/-0.000 χ^2/NDF : 2971701.0/24

Out: 0.005+/-0.000 χ^2/NDF : 2605645.7/28

All: 0.005+/-0.000 χ^2/NDF : 5578984.8/53

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.395+/-0.000 χ^2/NDF : 7412548044.8/15

Left Out: 0.775+/-0.000 χ^2/NDF : 19498482863.4/9

Right Out: 0.423+/-0.000 χ^2/NDF : 6904060515.1/18

Left In: 0.878+/-0.000 χ^2/NDF : 29340015786.6/8

Left: 0.828+/-0.000 χ^2/NDF : 49081794156.9/18

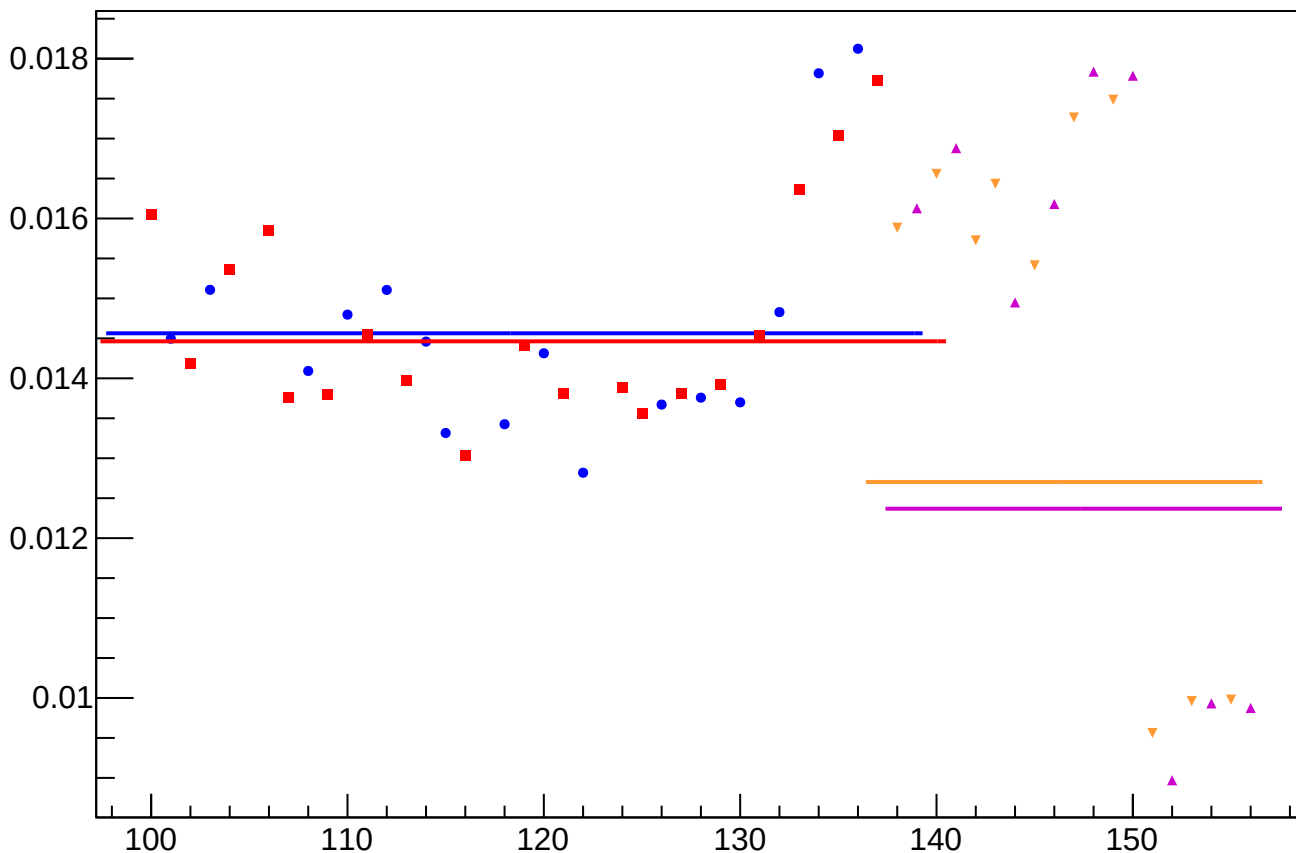
Right: 0.409+/-0.000 χ^2/NDF : 14330729641.2/34

In: 0.677+/-0.000 χ^2/NDF : 41316253784.9/24

Out: 0.621+/-0.000 χ^2/NDF : 28824383689.7/28

All: 0.649+/-0.000 χ^2/NDF : 70263846187.9/5

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 133134.7/15

Left Out: 0.013+/-0.000 χ^2/NDF :969025.0/9

Right Out: 0.014+/-0.000 χ^2/NDF : 77396.3/18

Left In: 0.012+/-0.000 χ^2/NDF :1138729.3/8

Left: 0.013+/-0.000 χ^2/NDF : 2112862.6/18

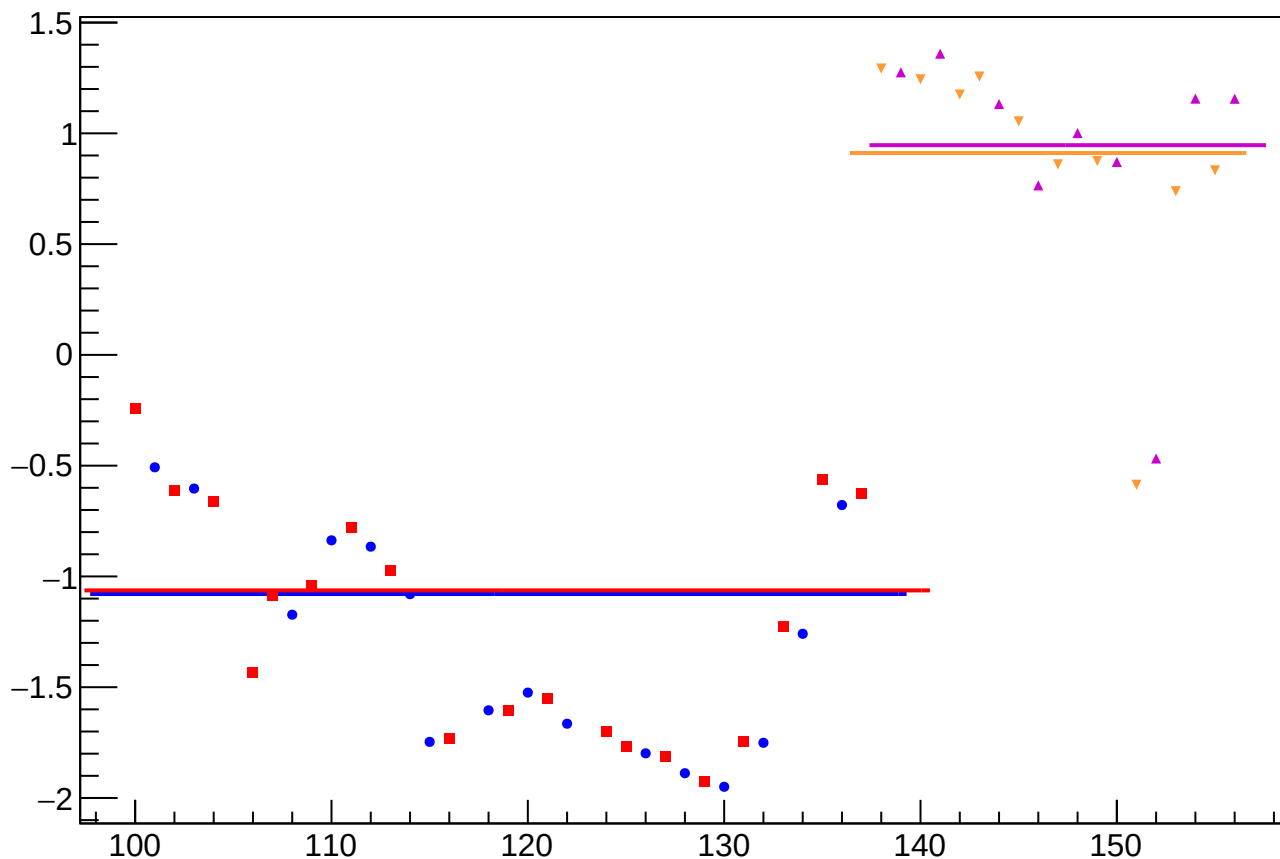
Right: 0.015+/-0.000 χ^2/NDF : 210877.4/34

In: 0.013+/-0.000 χ^2/NDF :1459817.0/24

Out: 0.013+/-0.000 χ^2/NDF :1167670.2/28

All: 0.013+/-0.000 χ^2/NDF : 2630366.0/53

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.079+/-0.000 χ^2/NDF : 59756571764.5/15

Left Out: 0.911+/-0.000 χ^2/NDF : 98502730185.5/9

Right Out: -1.063+/-0.000 χ^2/NDF : 49910403943.5/18

Left In: 0.947+/-0.000 χ^2/NDF : 111010724302.8/8

Left: 0.929+/-0.000 χ^2/NDF : 209820275566.5/18

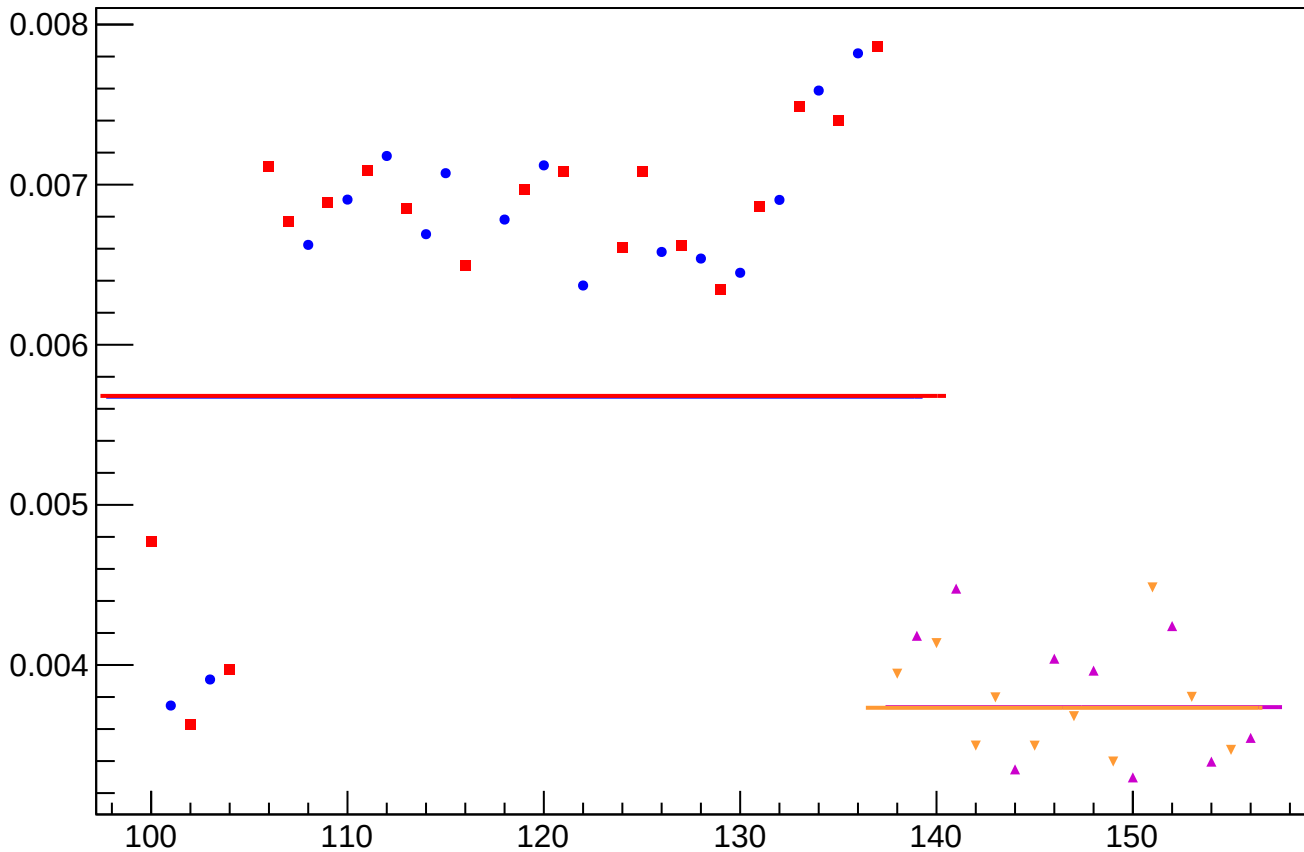
Right: -1.071+/-0.000 χ^2/NDF : 109693375141.4/34

In: 0.362+/-0.000 χ^2/NDF : 747953935470.9/24

Out: 0.345+/-0.000 χ^2/NDF : 704130213313.2/28

All: 0.354+/-0.000 χ^2/NDF : 1452180656790.

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 : 91072.7/9

Right Out: 0.006+/-0.000 χ^2/NDF : 980583.9/18

Left In: 0.004+/-0.000 χ^2/NDF : 168648.0/8

Left: 0.004+/-0.000 χ^2/NDF : 259728.7/18

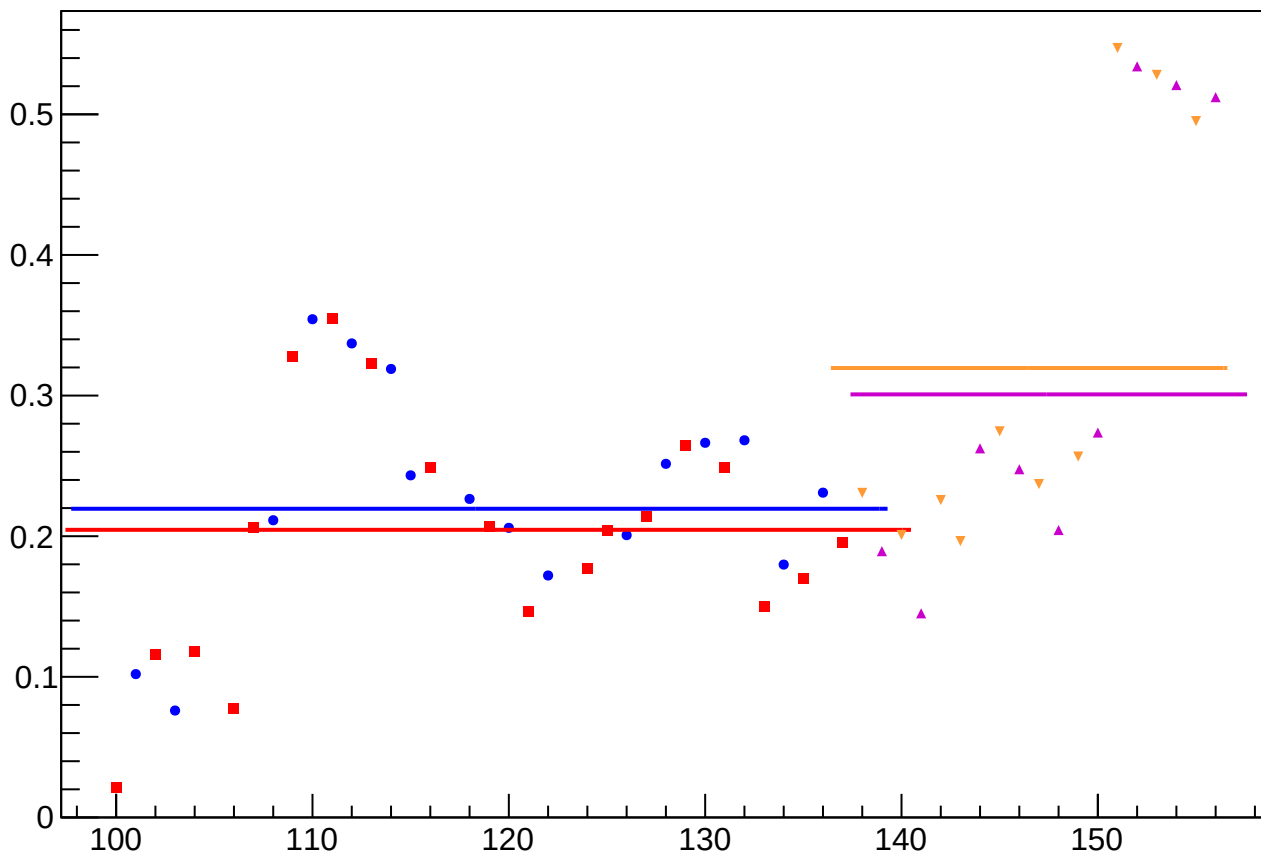
Right: 0.006+/-0.000 χ^2/NDF : 1925411.0/34

In: 0.004+/-0.000 χ^2/NDF : 2171065.2/24

Out: 0.004+/-0.000 χ^2/NDF : 2153345.4/28

All: 0.004+/-0.000 χ^2/NDF : 4324429.3/53

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.220+/-0.000 χ^2/NDF : 16729743257.8/15

Left Out: 0.320+/-0.000 χ^2/NDF : 71860936750.1/9

Right Out: 0.205+/-0.000 χ^2/NDF : 22312377506.1/18

Left In: 0.301+/-0.000 χ^2/NDF : 65457565922.4/8

Left: 0.311+/-0.000 χ^2/NDF : 137949964172.8/18

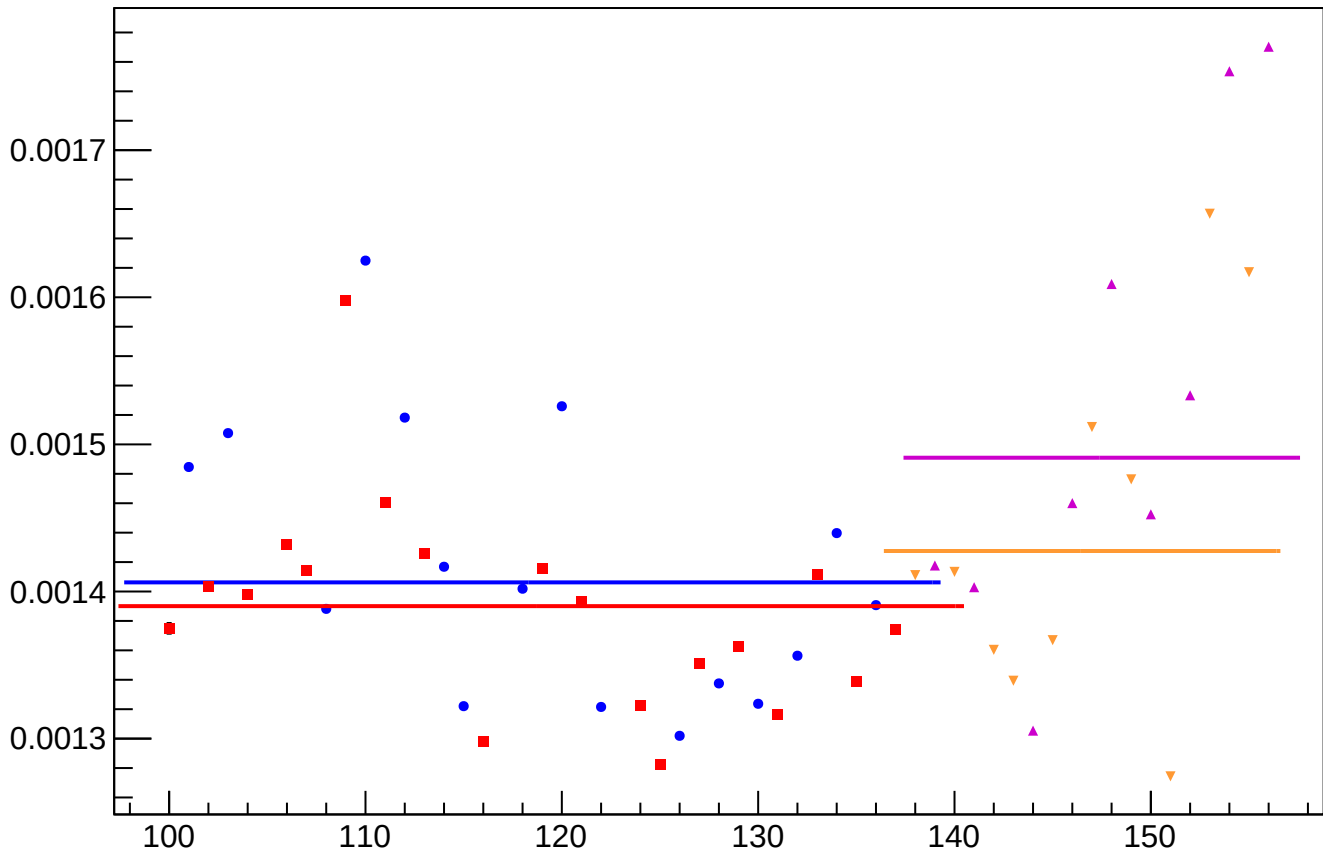
Right: 0.212+/-0.000 χ^2/NDF : 39451425816.8/34

In: 0.260+/-0.000 χ^2/NDF : 93632473925.8/24

Out: 0.262+/-0.000 χ^2/NDF : 119236994129.0/28

All: 0.261+/-0.000 χ^2/NDF : 212888751723.2

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 : 96956.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 34786.9/18

Left In: 0.001+/-0.000 χ^2/NDF : 138371.9/8

Left: 0.001+/-0.000 χ^2/NDF : 249743.6/18

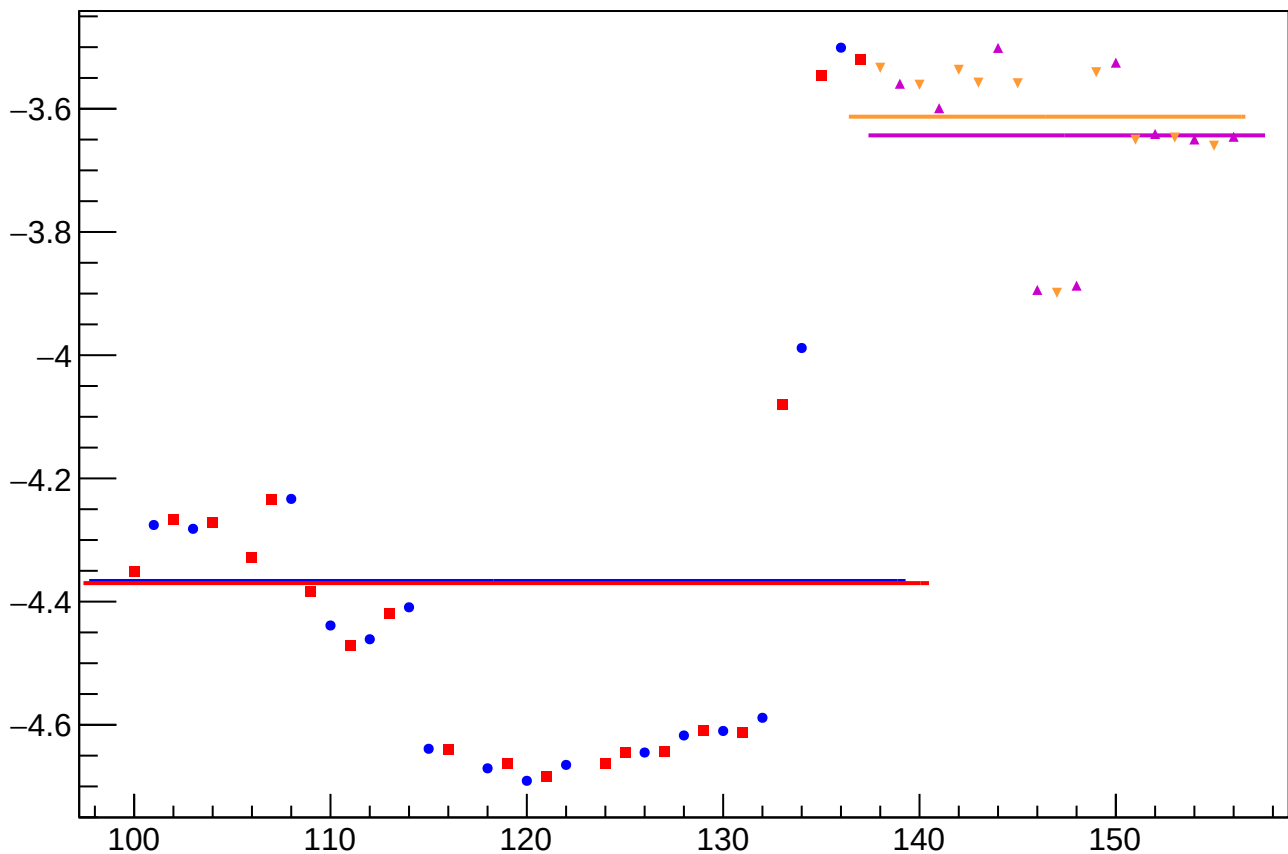
Right: 0.001+/-0.000 χ^2/NDF : 83938.6/34

In: 0.001+/-0.000 χ^2/NDF : 211424.1/24

Out: 0.001+/-0.000 χ^2/NDF : 137060.5/28

All: 0.001+/-0.000 χ^2/NDF : 359620.8/53

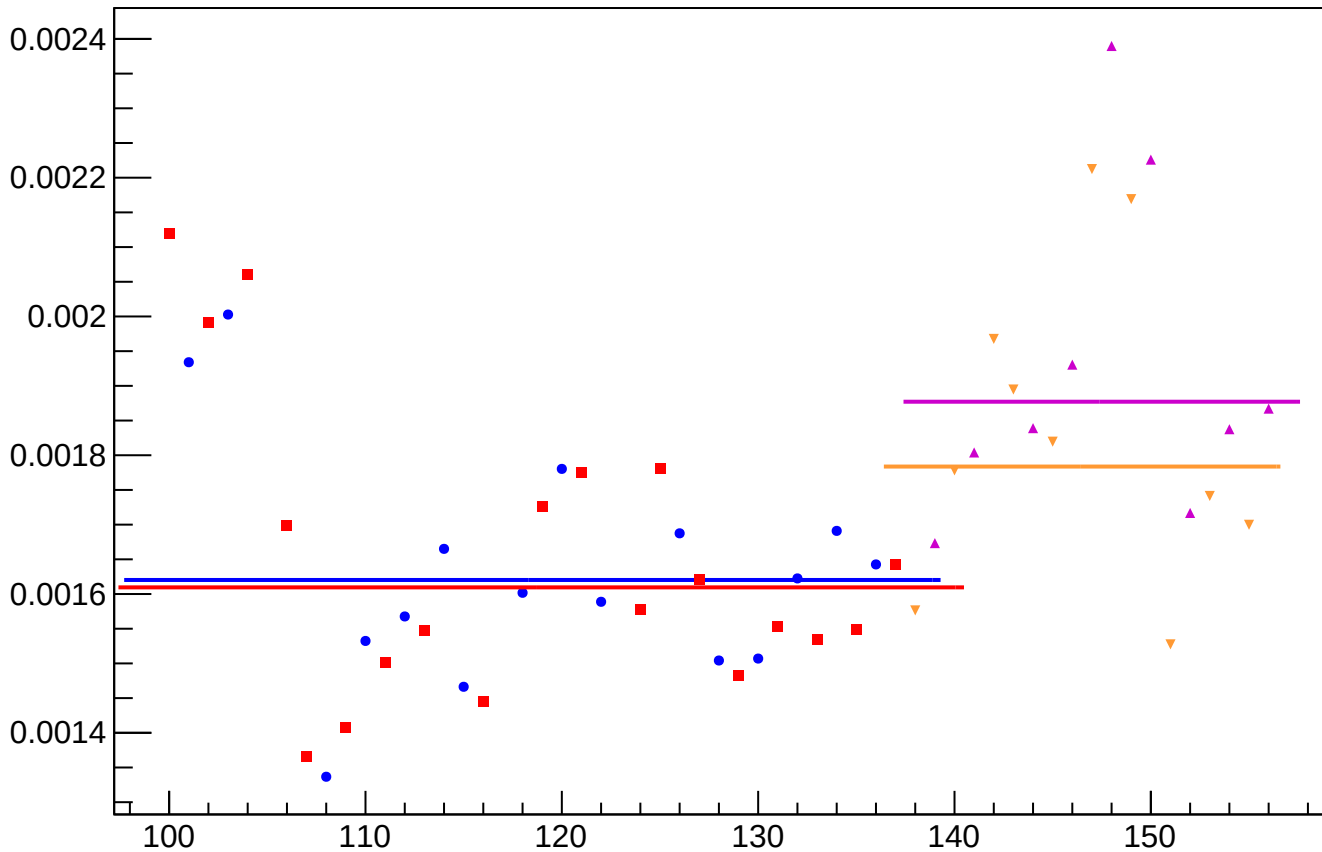
yield_bpm2i01Y_mean vs Slug, Sign Corrected



Left: -3.627 $\pm$ 0.000 χ^2/NDF : 53168589929.8/18
 Right: -4.368 $\pm$ 0.000 χ^2/NDF : 649165512283.3/34
 In: -4.044 $\pm$ 0.000 χ^2/NDF : 995485708359.1/24
 Out: -4.024 $\pm$ 0.000 χ^2/NDF : 1036458434800.2/28
 All: -4.034 $\pm$ 0.000 χ^2/NDF : 2033002100751

Right In: -4.367 $\pm$ 0.000 χ^2/NDF : 353013303743.6/15
 Left Out: -3.613 $\pm$ 0.000 χ^2/NDF : 19794298633.8/9
 Right Out: -4.370 $\pm$ 0.000 χ^2/NDF : 296136368274.3/18
 Left In: -3.643 $\pm$ 0.000 χ^2/NDF : 32359833448.4/8

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 :198983.6/9

Right Out: 0.002+/-0.000 χ^2/NDF : 184968.0/18

Left In: 0.002+/-0.000 χ^2/NDF :160337.0/8

Left: 0.002+/-0.000 χ^2/NDF : 378570.7/18

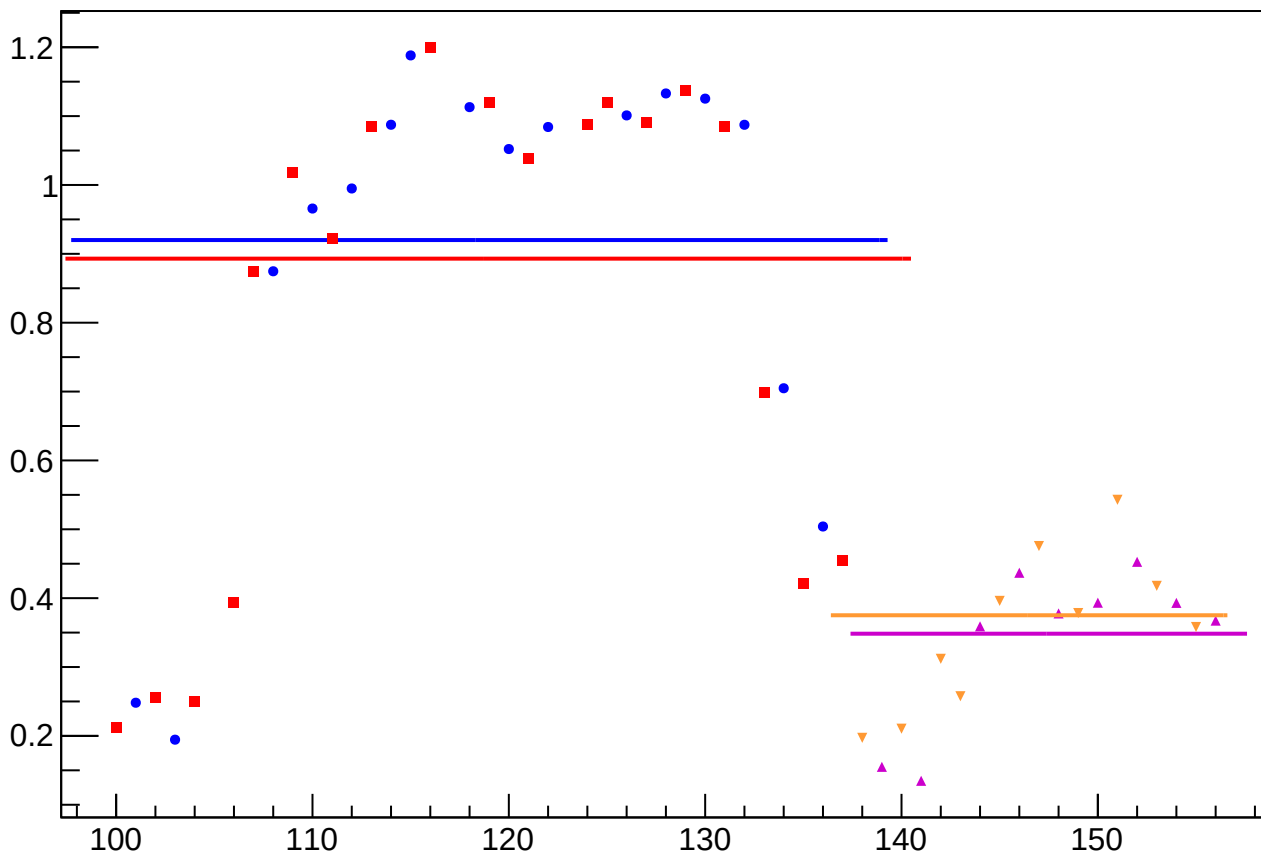
Right: 0.002+/-0.000 χ^2/NDF : 325489.2/34

In: 0.002+/-0.000 χ^2/NDF :454473.4/24

Out: 0.002+/-0.000 χ^2/NDF :460172.7/28

All: 0.002+/-0.000 χ^2/NDF : 924725.0/53

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.920 $\pm$ 0.000

χ^2 /NDF: 14566431727.4/15

Left: 0.362 $\pm$ 0.000

χ^2 /NDF: 3004200340.9/18

Left Out: 0.375 $\pm$ 0.000

χ^2 /NDF: 1621062484.5/9

Right: 0.906 $\pm$ 0.000

χ^2 /NDF: 32276058175.7/34

Right Out: 0.893 $\pm$ 0.000

χ^2 /NDF: 17642154019.1/18

In: 0.693 $\pm$ 0.000

χ^2 /NDF: 38716155278.9/24

Out: 0.693 $\pm$ 0.000

χ^2 /NDF: 39507516136.9/28

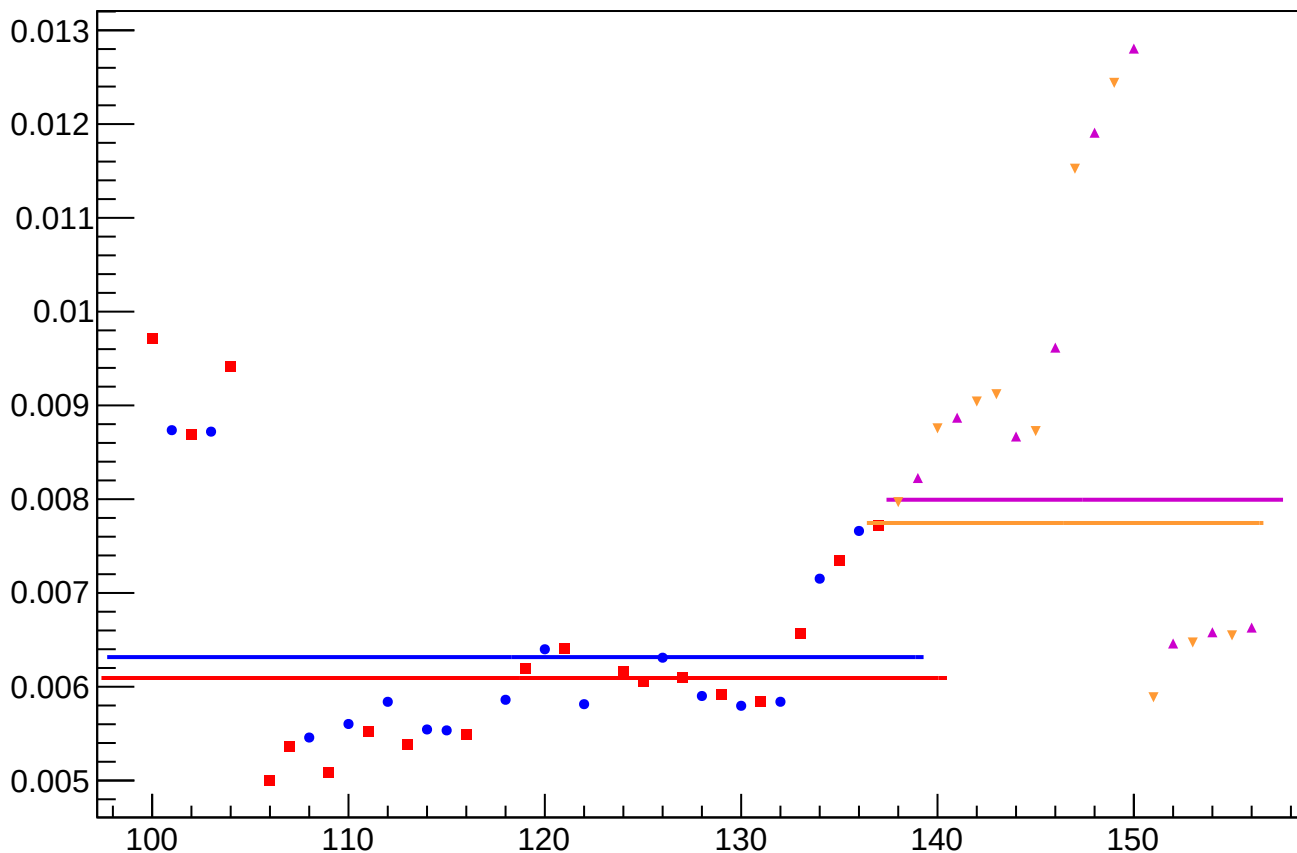
Left In: 0.348 $\pm$ 0.000

χ^2 /NDF: 1340360124.7/8

All: 0.693 $\pm$ 0.000

χ^2 /NDF: 78223672094.7/5

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 : 796912.5/9

Right Out: 0.006+/-0.000 χ^2/NDF : 435933.6/18

Left In: 0.008+/-0.000 χ^2/NDF : 757830.9/8

Left: 0.008+/-0.000 χ^2/NDF : 1562073.8/18

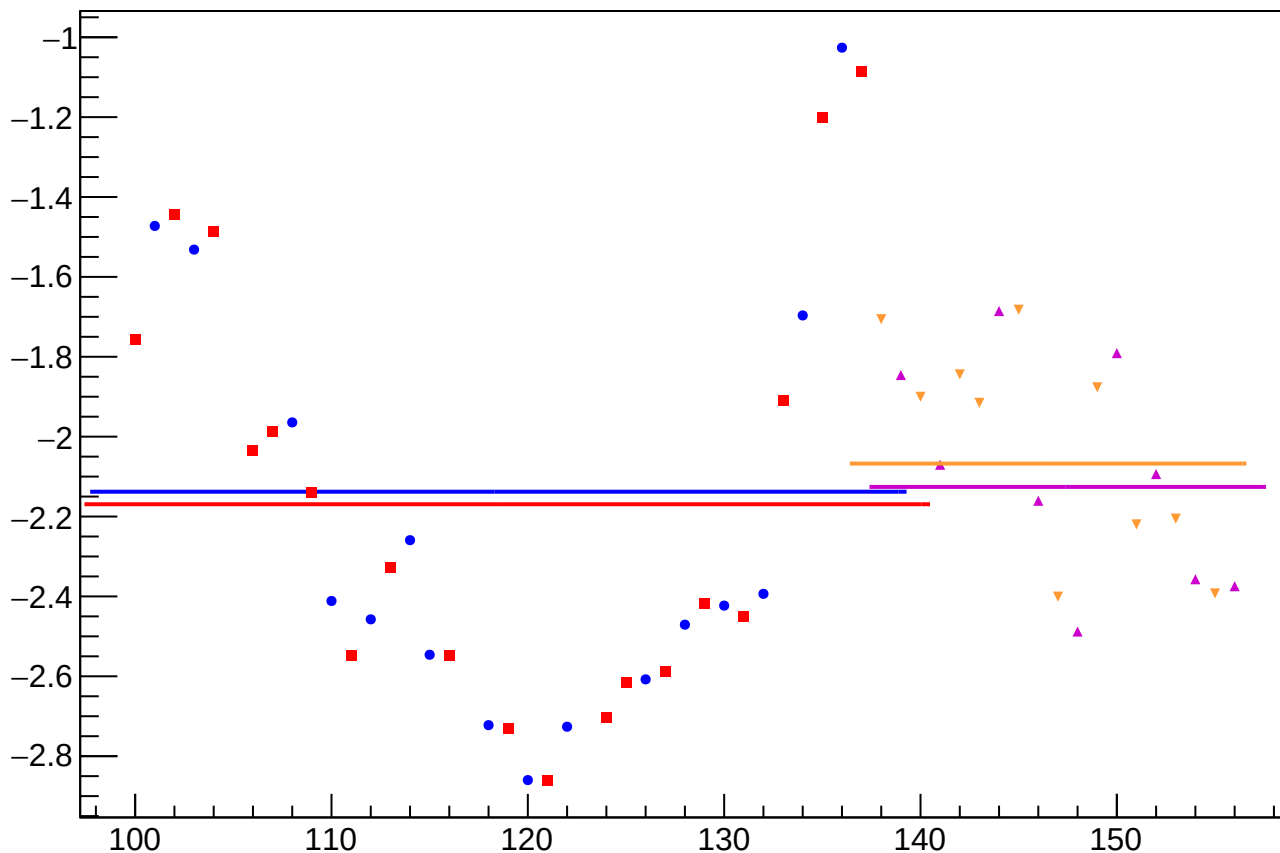
Right: 0.006+/-0.000 χ^2/NDF : 780835.2/34

In: 0.007+/-0.000 χ^2/NDF : 1486635.9/24

Out: 0.007+/-0.000 χ^2/NDF : 1645389.5/28

All: 0.007+/-0.000 χ^2/NDF : 3151142.8/53

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 65666622158.4/15

Left Out: -2.067+/-0.000 χ^2/NDF : 10390550796.5/9

Right Out: -2.169+/-0.000 χ^2/NDF : 57409196879.6/18

Left In: -2.126+/-0.000 χ^2/NDF : 9365756982.6/8

Left: -2.096+/-0.000 χ^2/NDF : 20026943960.4/18

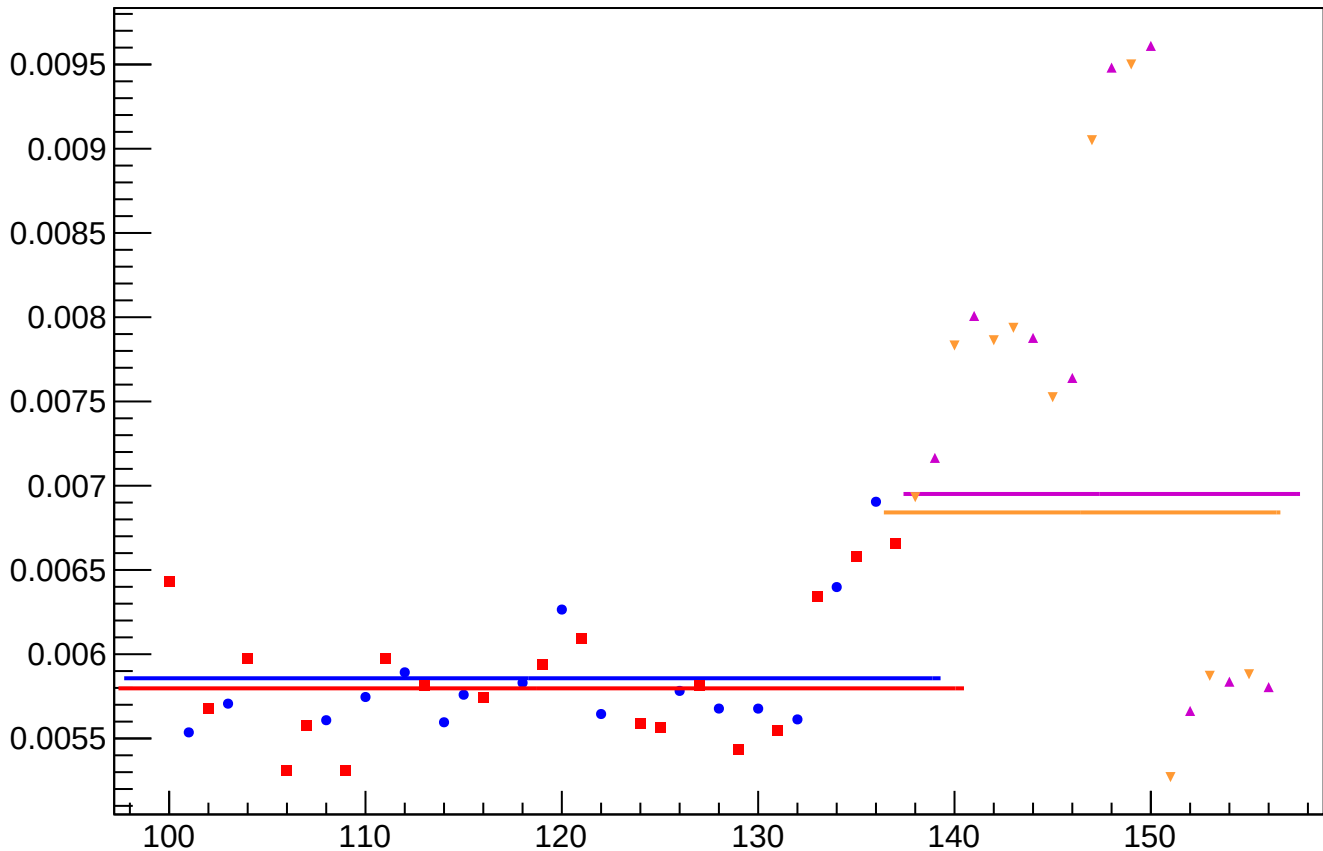
Right: -2.154+/-0.000 χ^2/NDF : 123181980201.2/34

In: -2.133+/-0.000 χ^2/NDF : 75045383419.0/24

Out: -2.126+/-0.000 χ^2/NDF : 68768550275.5/28

All: -2.129+/-0.000 χ^2/NDF : 143821430297.1

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 :551936.7/9

Right Out: 0.006+/-0.000 χ^2/NDF : 56374.2/18

Left In: 0.007+/-0.000 χ^2/NDF :544177.1/8

Left: 0.007+/-0.000 χ^2/NDF : 1098017.0/18

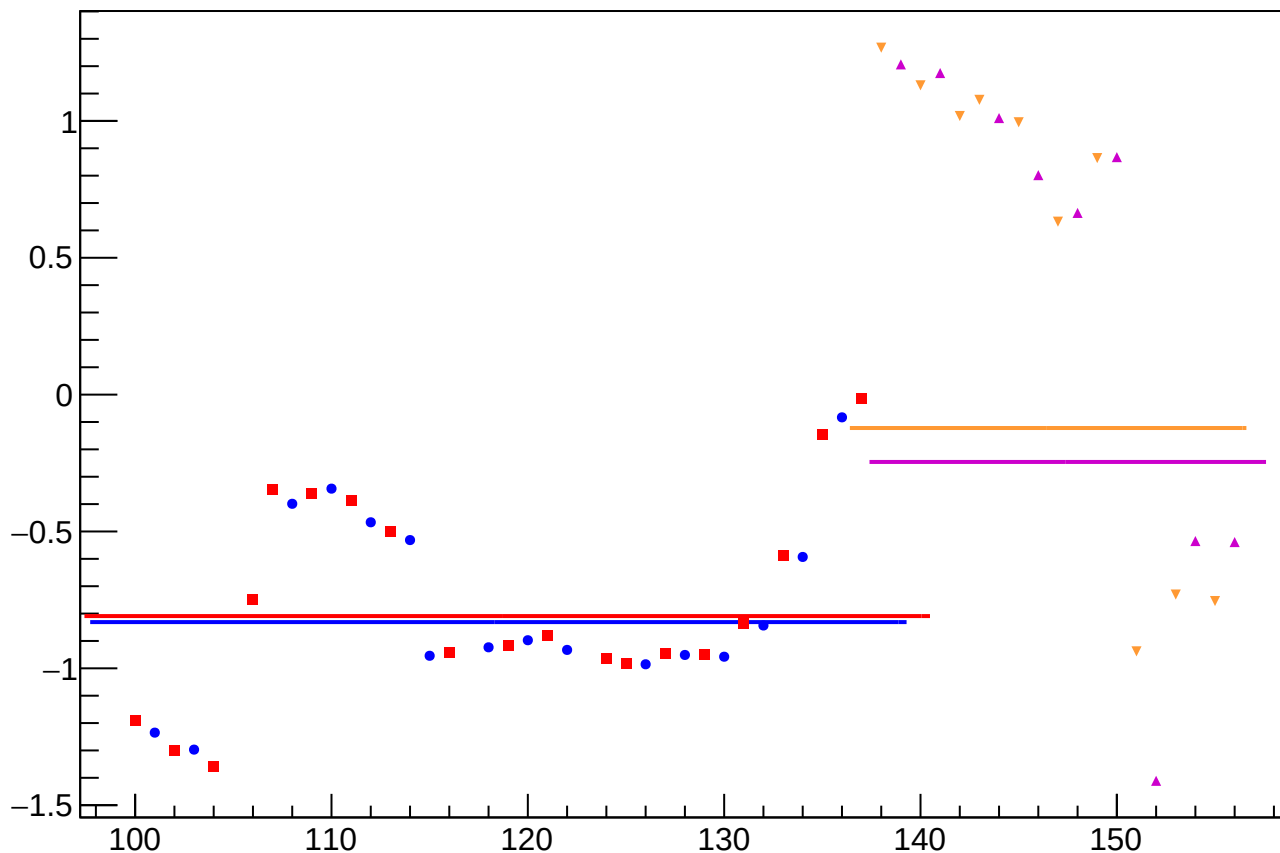
Right: 0.006+/-0.000 χ^2/NDF : 119093.4/34

In: 0.006+/-0.000 χ^2/NDF :820070.4/24

Out: 0.006+/-0.000 χ^2/NDF :811760.9/28

All: 0.006+/-0.000 χ^2/NDF : 1634678.4/53

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 7112259663.3/15

Left: -0.186+/-0.000

χ^2/NDF : 150270381698.1/18

Left Out: -0.122+/-0.000

χ^2/NDF : 67578475081.5/9

Right: -0.820+/-0.000

χ^2/NDF : 15273298764.6/34

Right Out: -0.809+/-0.000

χ^2/NDF : 8146337898.7/18

In: -0.480+/-0.000

χ^2/NDF : 101371772484.8/24

Out: -0.412+/-0.000

χ^2/NDF : 92654301499.0/28

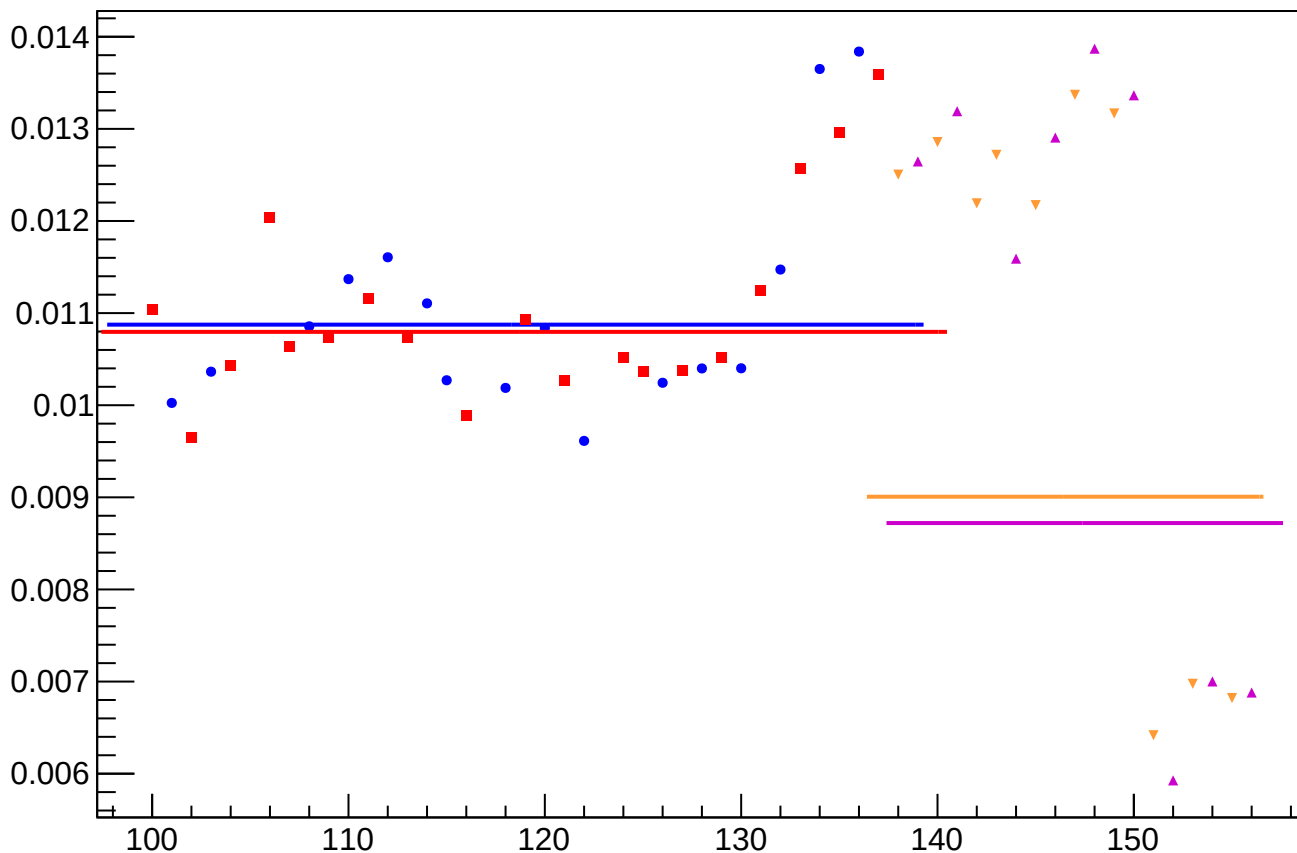
Left In: -0.246+/-0.000

χ^2/NDF : 82021397015.7/8

All: -0.446+/-0.000

χ^2/NDF : 194366468281.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 157612.7/15

Left Out: 0.009+/-0.000 χ^2/NDF :1458090.6/9

Right Out: 0.011+/-0.000 χ^2/NDF : 99122.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1676613.0/8

Left: 0.009+/-0.000 χ^2/NDF : 3141828.1/18

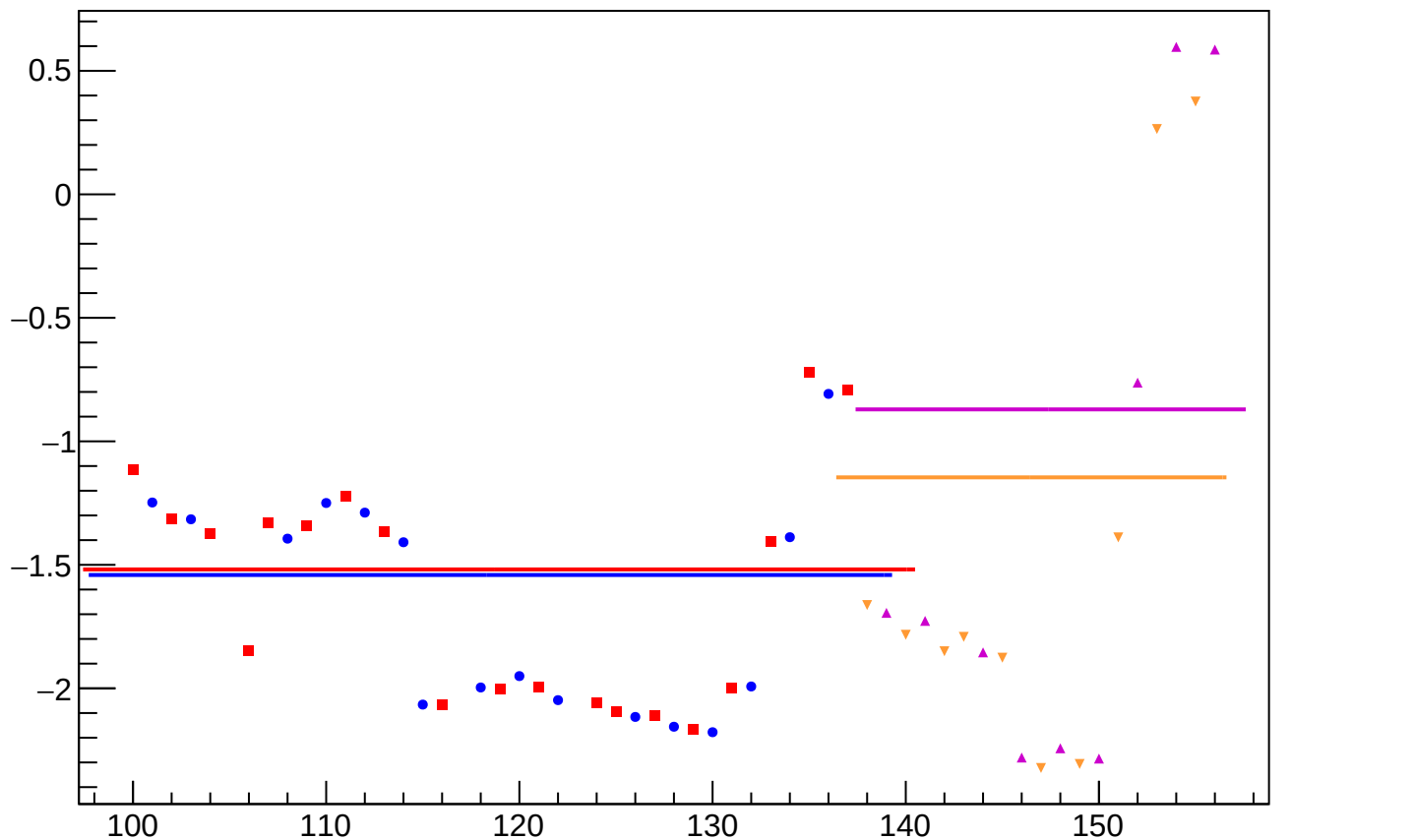
Right: 0.011+/-0.000 χ^2/NDF : 257107.2/34

In: 0.010+/-0.000 χ^2/NDF :2165879.2/24

Out: 0.010+/-0.000 χ^2/NDF :1786939.1/28

All: 0.010+/-0.000 χ^2/NDF : 3957652.8/53

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.541+/-0.000 χ^2/NDF : 162409397922.2/15

Left Out: -1.146+/-0.000 χ^2/NDF : 753238496759.9/9

Right Out: -1.519+/-0.000 χ^2/NDF : 145077318641.2/18

Left In: -0.871+/-0.000 χ^2/NDF : 967077543389.0/8

Left: -1.010+/-0.000 χ^2/NDF : 1747617456761.5/18

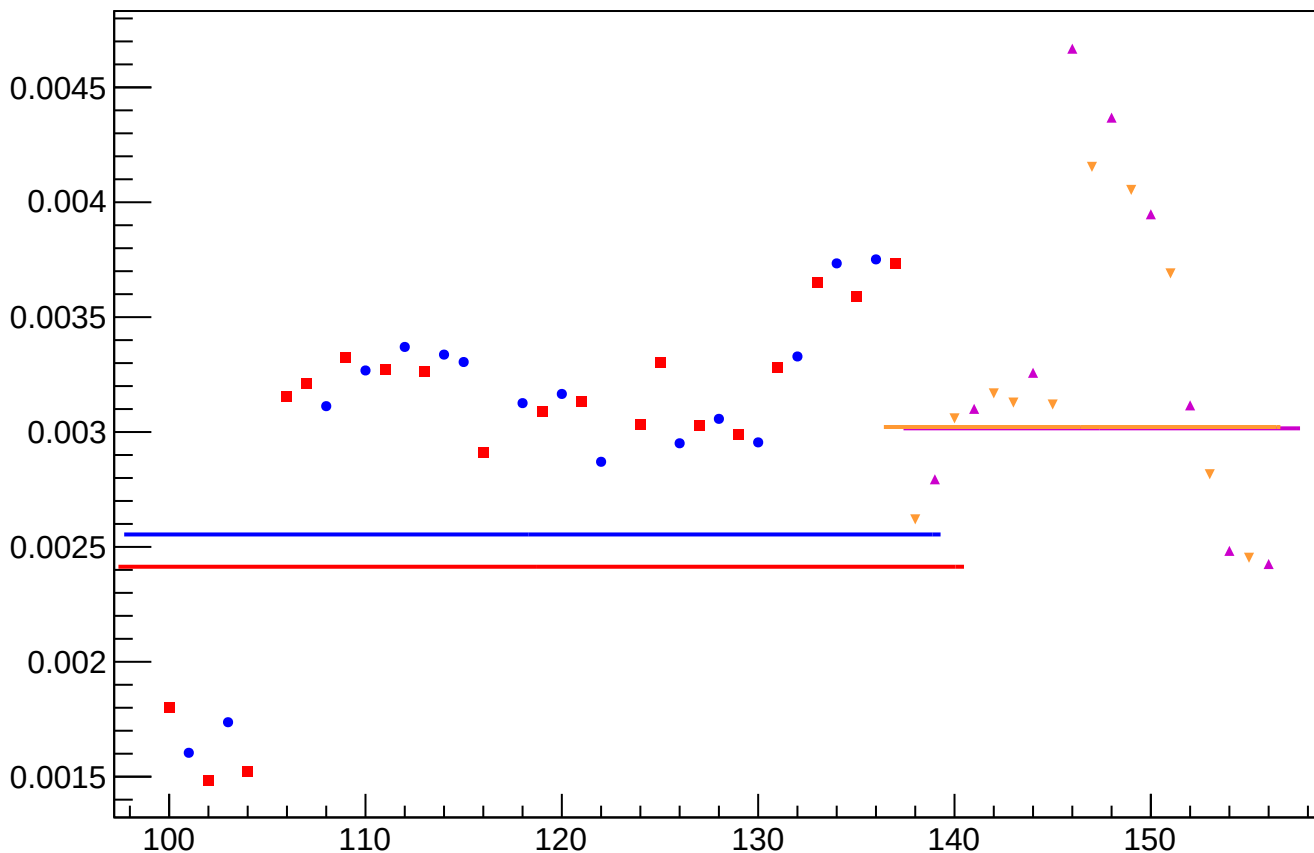
Right: -1.529+/-0.000 χ^2/NDF : 307732116783.0/34

In: -1.250+/-0.000 χ^2/NDF : 1310873372163.9/24

Out: -1.363+/-0.000 χ^2/NDF : 957281739968.0/28

All: -1.308+/-0.000 χ^2/NDF : 2279025843903

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 : 351946.9/9

Right Out: 0.002+/-0.000 χ^2/NDF : 1546830.8/18

Left In: 0.003+/-0.000 χ^2/NDF : 531044.6/8

Left: 0.003+/-0.000 χ^2/NDF : 883016.1/18

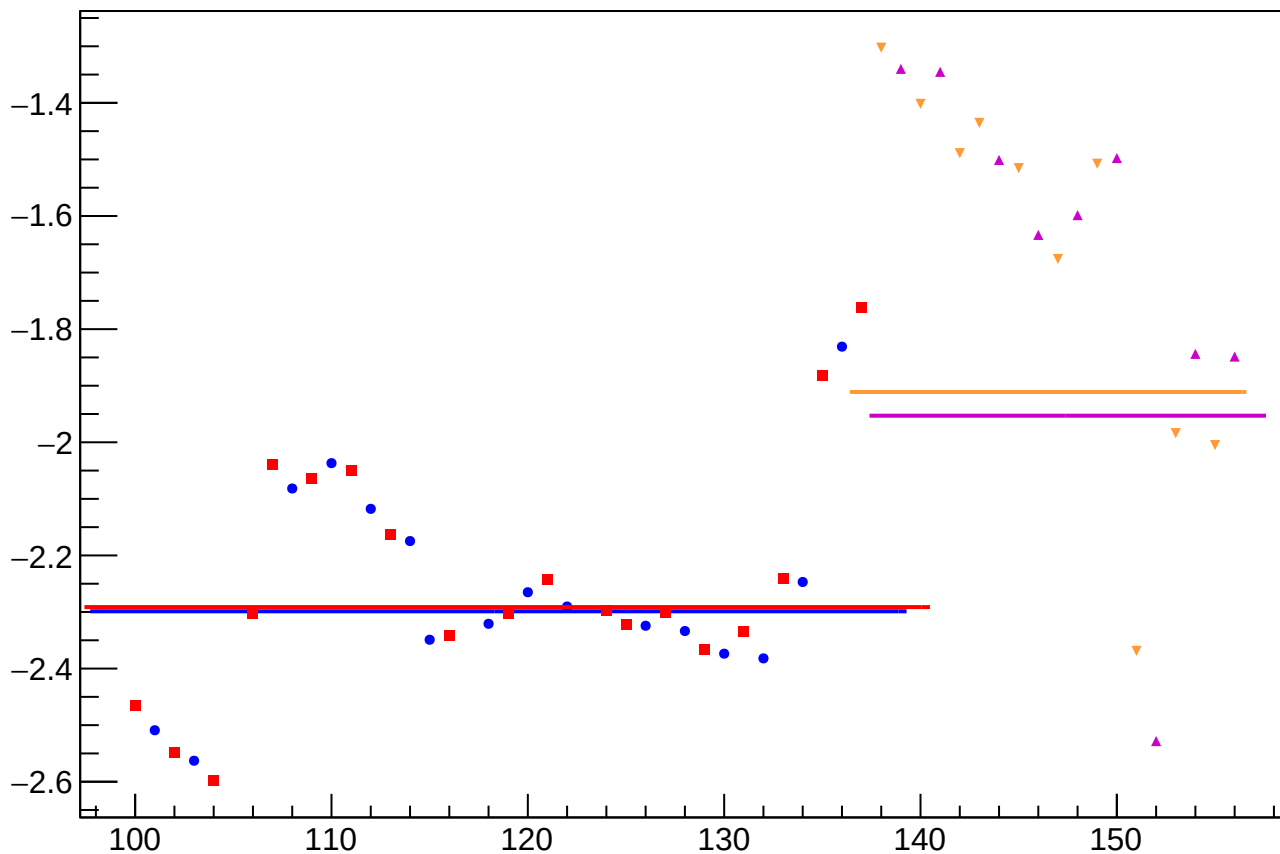
Right: 0.002+/-0.000 χ^2/NDF : 2738423.5/34

In: 0.003+/-0.000 χ^2/NDF : 1875667.6/24

Out: 0.003+/-0.000 χ^2/NDF : 2212765.4/28

All: 0.003+/-0.000 χ^2/NDF : 4101362.9/53

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.299+/-0.000 χ^2/NDF : 6129071089.8/15

Left Out: -1.911+/-0.000 χ^2/NDF : 24423059399.0/9

Right Out: -2.291+/-0.000 χ^2/NDF : 6831007568.9/18

Left In: -1.953+/-0.000 χ^2/NDF : 39082974375.0/8

Left: -1.933+/-0.000 χ^2/NDF : 63696104768.4/18

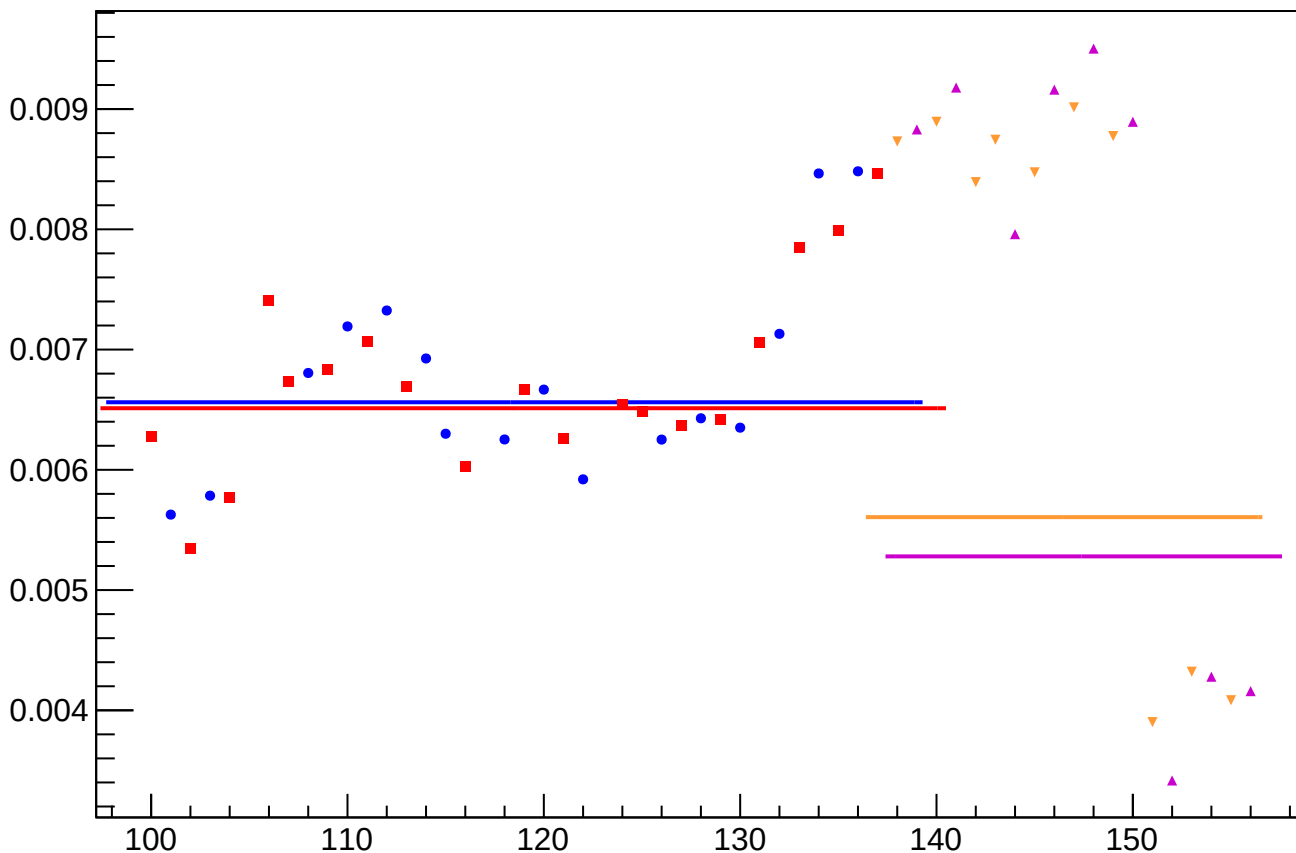
Right: -2.295+/-0.000 χ^2/NDF : 12964639512.9/34

In: -2.097+/-0.000 χ^2/NDF : 56448167567.8/24

Out: -2.081+/-0.000 χ^2/NDF : 44634067278.1/28

All: -2.089+/-0.000 χ^2/NDF : 101127683440.3

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 221890.3/15

Left Out: 0.006+/-0.000 χ^2/NDF :1966755.6/9

Right Out: 0.007+/-0.000 χ^2/NDF : 184961.7/18

Left In: 0.005+/-0.000 χ^2/NDF :2352584.7/8

Left: 0.005+/-0.000 χ^2/NDF : 4342348.9/18

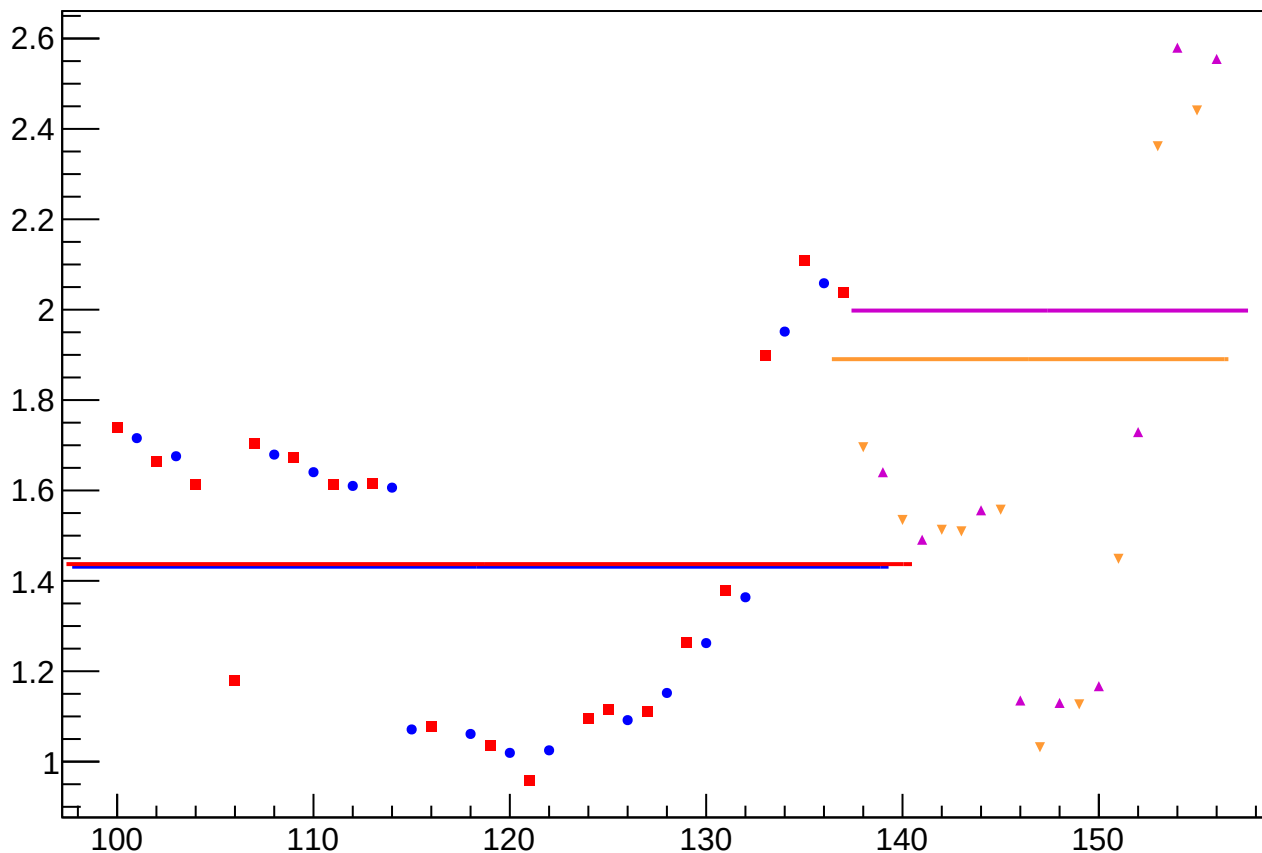
Right: 0.007+/-0.000 χ^2/NDF : 407258.0/34

In: 0.006+/-0.000 χ^2/NDF :2883218.4/24

Out: 0.006+/-0.000 χ^2/NDF :2303476.4/28

All: 0.006+/-0.000 χ^2/NDF : 5201768.8/53

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.431+/-0.000 χ^2/NDF : 189180734956.1/15

Left Out: 1.890+/-0.000 χ^2/NDF : 89582804950.7/9

Right Out: 1.437+/-0.000 χ^2/NDF : 182019221175.5/18

Left In: 1.998+/-0.000 χ^2/NDF : 113637616808.9/8

Left: 1.945+/-0.000 χ^2/NDF : 205555448292.5/18

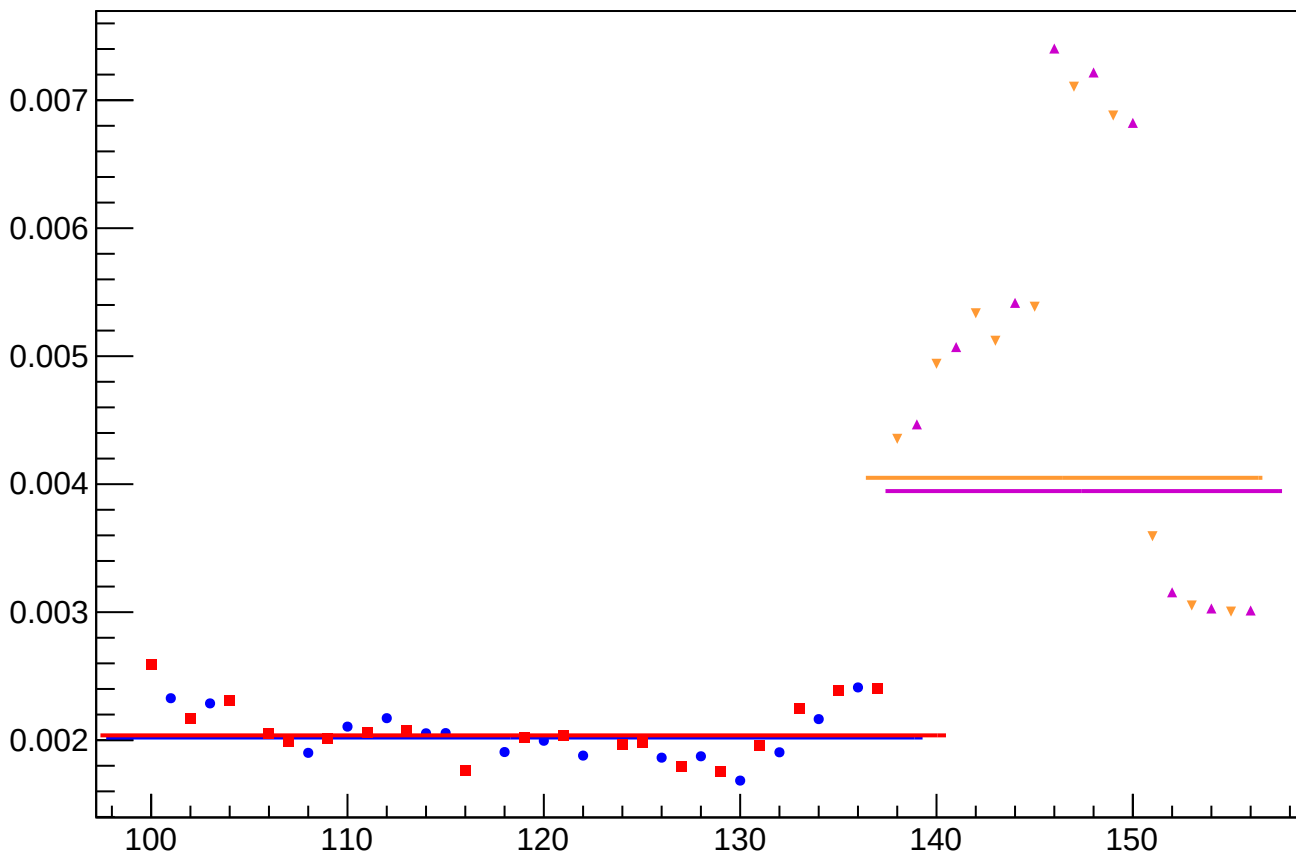
Right: 1.434+/-0.000 χ^2/NDF : 371226177704.8/34

In: 1.545+/-0.000 χ^2/NDF : 407567460270.1/24

Out: 1.526+/-0.000 χ^2/NDF : 337566816796.3/28

All: 1.536+/-0.000 χ^2/NDF : 745495192044.6

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 154923.3/15

Left Out: 0.004+/-0.000 χ^2/NDF : 1122719.5/9

Right Out: 0.002+/-0.000 χ^2/NDF : 113640.4/18

Left In: 0.004+/-0.000 χ^2/NDF : 1470458.4/8

Left: 0.004+/-0.000 χ^2/NDF : 2597519.5/18

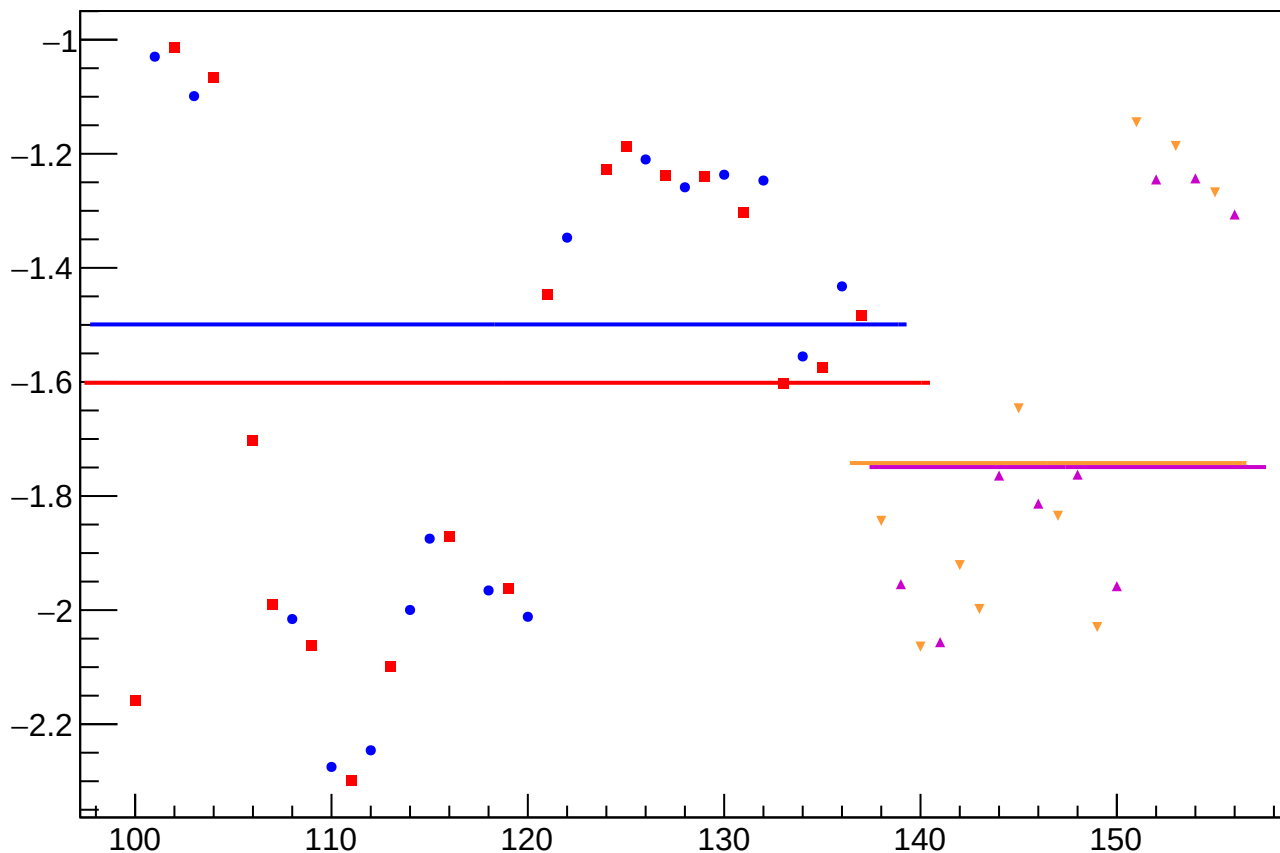
Right: 0.002+/-0.000 χ^2/NDF : 269026.9/34

In: 0.002+/-0.000 χ^2/NDF : 4043756.7/24

Out: 0.002+/-0.000 χ^2/NDF : 3834335.4/28

All: 0.002+/-0.000 χ^2/NDF : 7879496.2/53

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.499+/-0.000 χ^2/NDF : 22930357522.2/15

Left Out: -1.742+/-0.000 χ^2/NDF : 20778685758.7/9

Right Out: -1.601+/-0.000 χ^2/NDF : 28324914147.6/18

Left In: -1.749+/-0.000 χ^2/NDF : 14204146023.7/8

Left: -1.746+/-0.000 χ^2/NDF : 34987262472.2/18

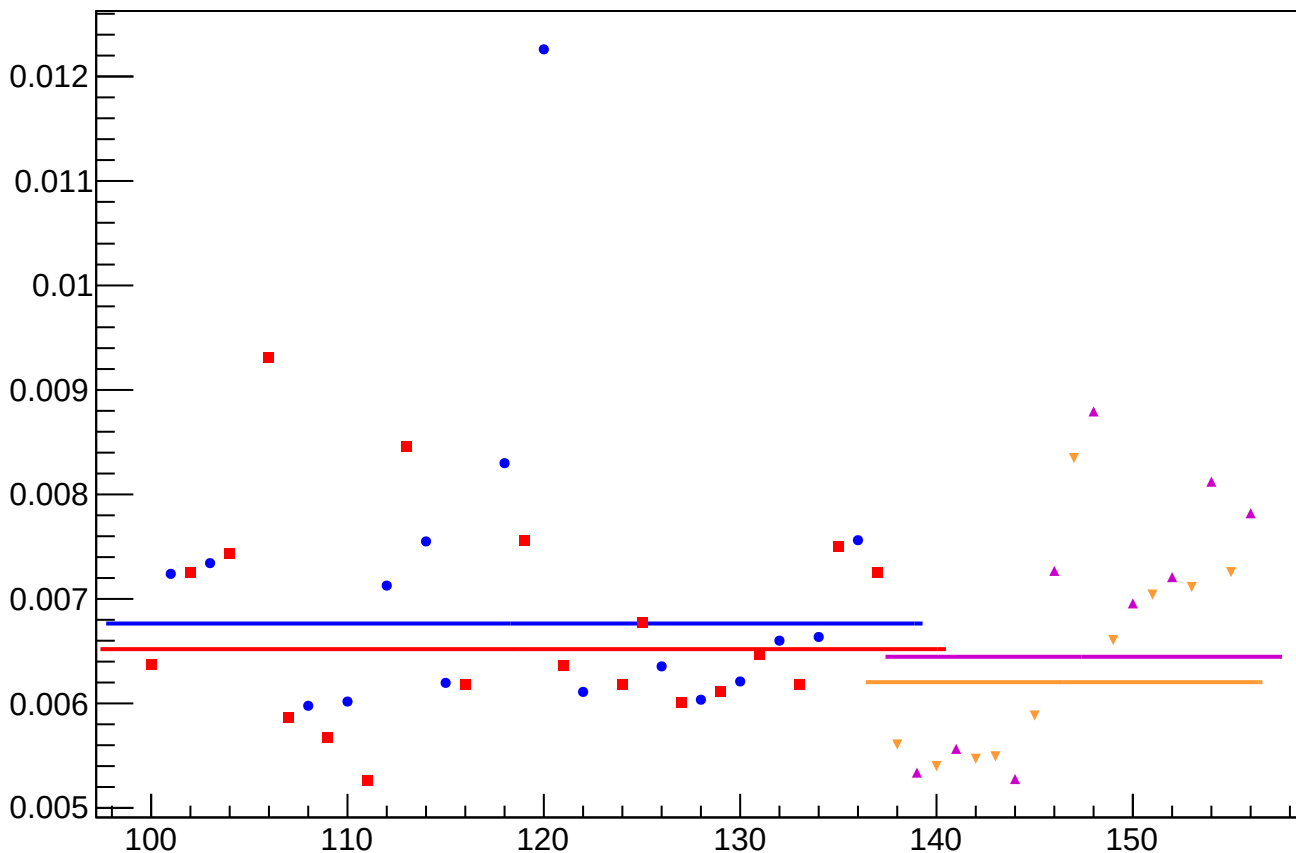
Right: -1.554+/-0.000 χ^2/NDF : 52047267484.5/34

In: -1.635+/-0.000 χ^2/NDF : 41961682617.5/24

Out: -1.677+/-0.000 χ^2/NDF : 50832599302.8/28

All: -1.658+/-0.000 χ^2/NDF : 93083448708.1/70

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 238566.1/15

Left Out: 0.006+/-0.000 χ^2/NDF :284416.6/9

Right Out: 0.007+/-0.000 χ^2/NDF : 245428.1/18

Left In: 0.006+/-0.000 χ^2/NDF :468086.8/8

Left: 0.006+/-0.000 χ^2/NDF : 763062.9/18

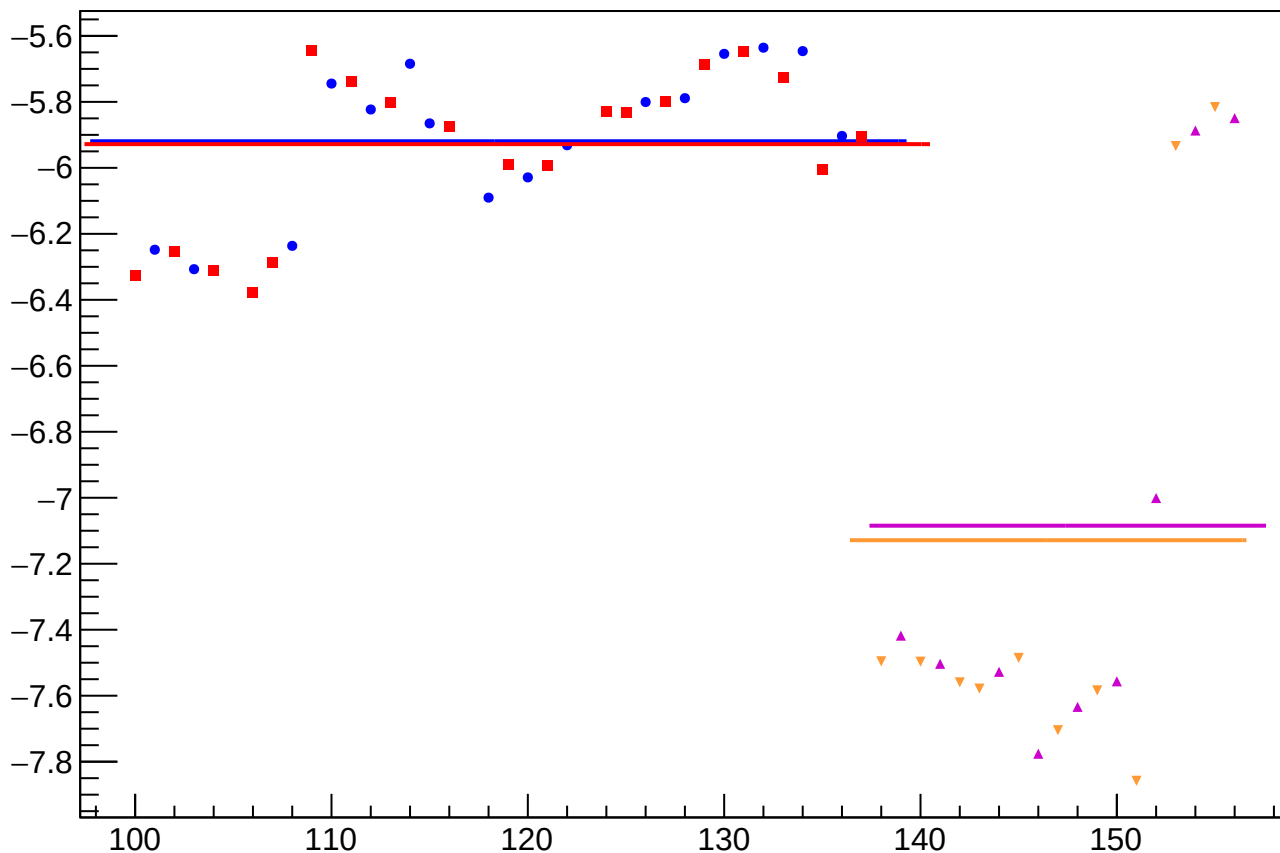
Right: 0.007+/-0.000 χ^2/NDF : 493094.9/34

In: 0.007+/-0.000 χ^2/NDF :722282.5/24

Out: 0.006+/-0.000 χ^2/NDF :547282.9/28

All: 0.006+/-0.000 χ^2/NDF : 1288899.0/53

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.919+/-0.000 χ^2/NDF : 11742457053.3/15

Left Out: -7.129+/-0.000 χ^2/NDF : 41185713942.1/9

Right Out: -5.928+/-0.000 χ^2/NDF : 12641528579.2/18

Left In: -7.085+/-0.000 χ^2/NDF : 31611668168.4/8

Left: -7.107+/-0.000 χ^2/NDF : 72860756596.8/18

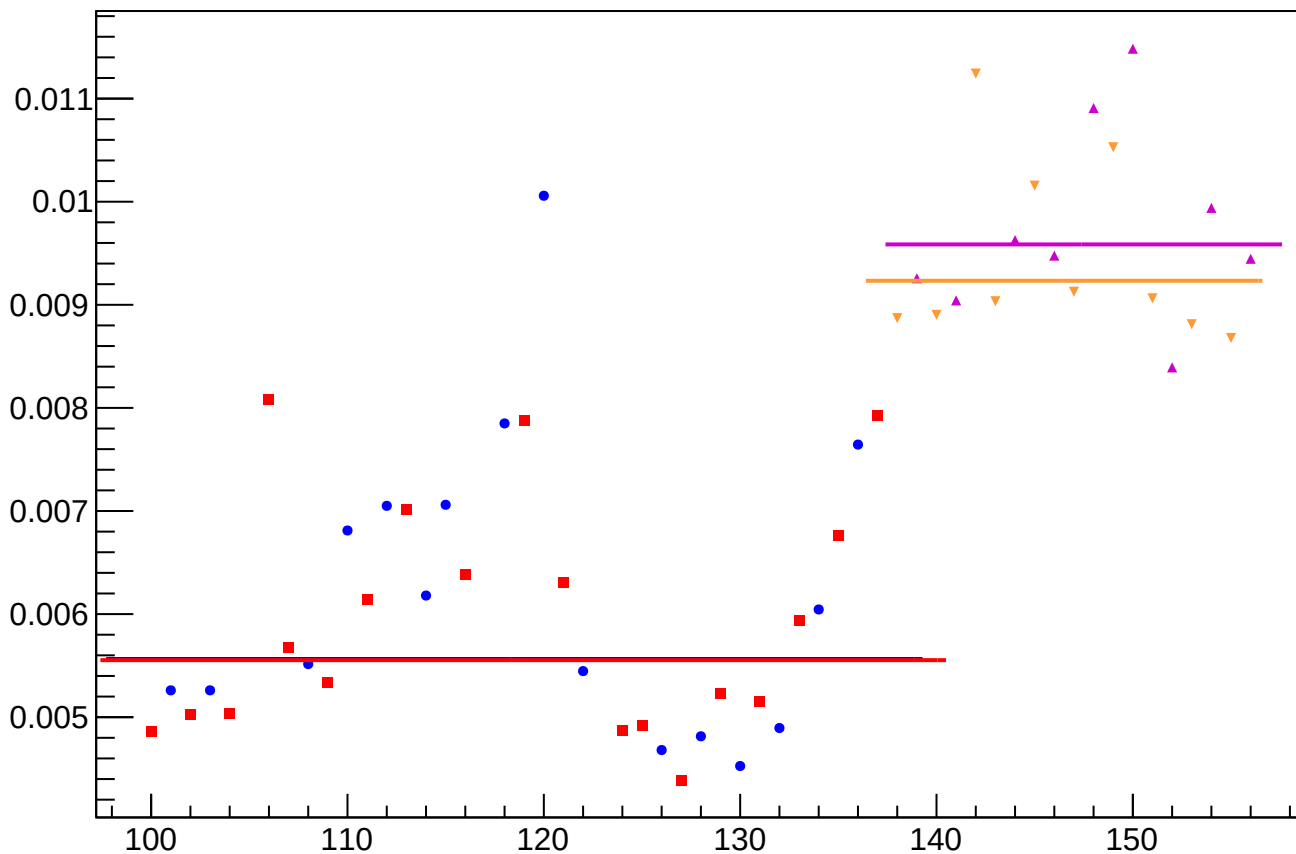
Right: -5.924+/-0.000 χ^2/NDF : 24391751979.3/34

In: -6.202+/-0.000 χ^2/NDF : 108698680892.5/24

Out: -6.219+/-0.000 χ^2/NDF : 127364652714.0/28

All: -6.211+/-0.000 χ^2/NDF : 236099935160.6

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 : 61475.2/9

Right Out: 0.006+/-0.000 χ^2/NDF : 364541.1/18

Left In: 0.010+/-0.000 χ^2/NDF : 91742.8/8

Left: 0.009+/-0.000 χ^2/NDF : 161347.7/18

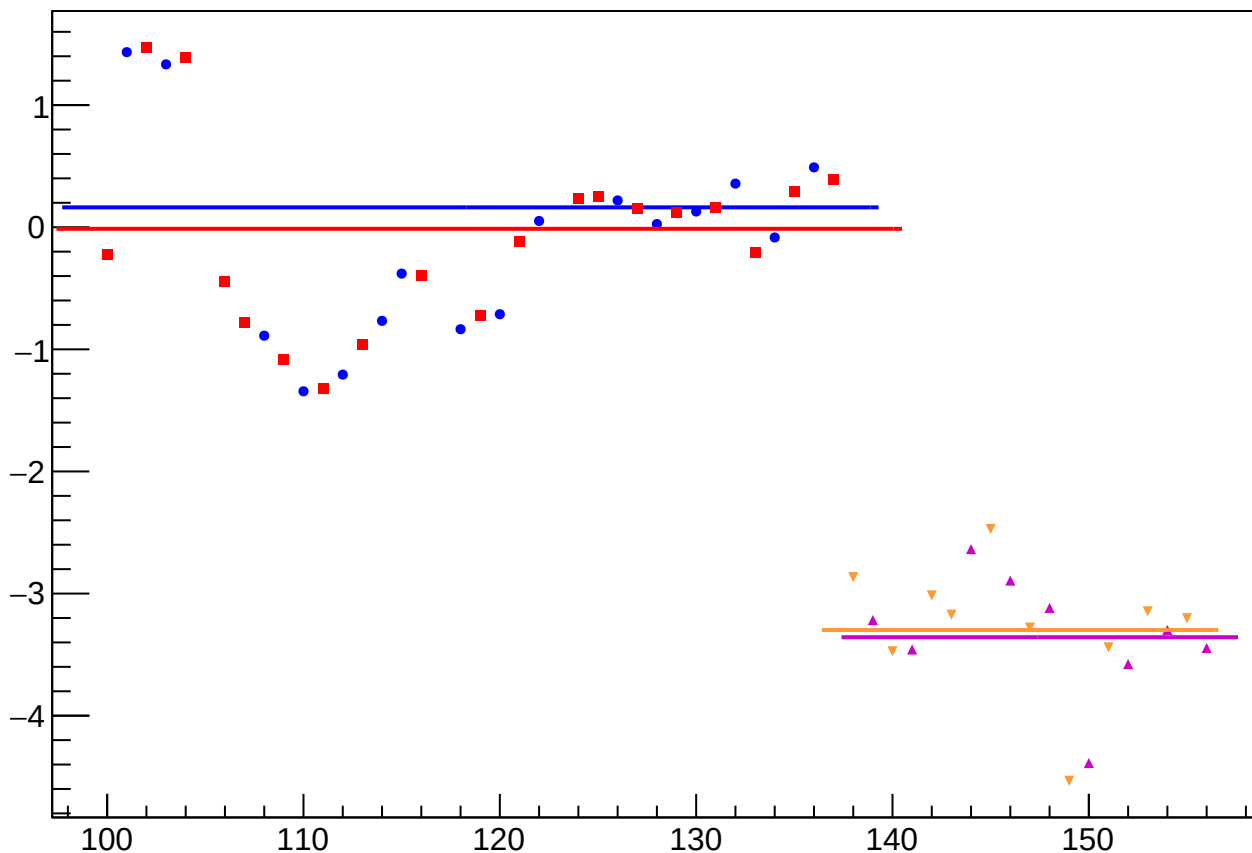
Right: 0.006+/-0.000 χ^2/NDF : 860112.8/34

In: 0.007+/-0.000 χ^2/NDF : 2143806.1/24

Out: 0.006+/-0.000 χ^2/NDF : 1807833.9/28

All: 0.006+/-0.000 χ^2/NDF : 3954154.3/53

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.163+/-0.000 χ^2/NDF : 17940034444.3/15

Left Out: -3.298+/-0.000 χ^2/NDF : 6311007321.3/9

Right Out: -0.013+/-0.000 χ^2/NDF : 22484002798.8/18

Left In: -3.357+/-0.000 χ^2/NDF : 4704423492.5/8

Left: -3.327+/-0.000 χ^2/NDF : 11053620316.4/18

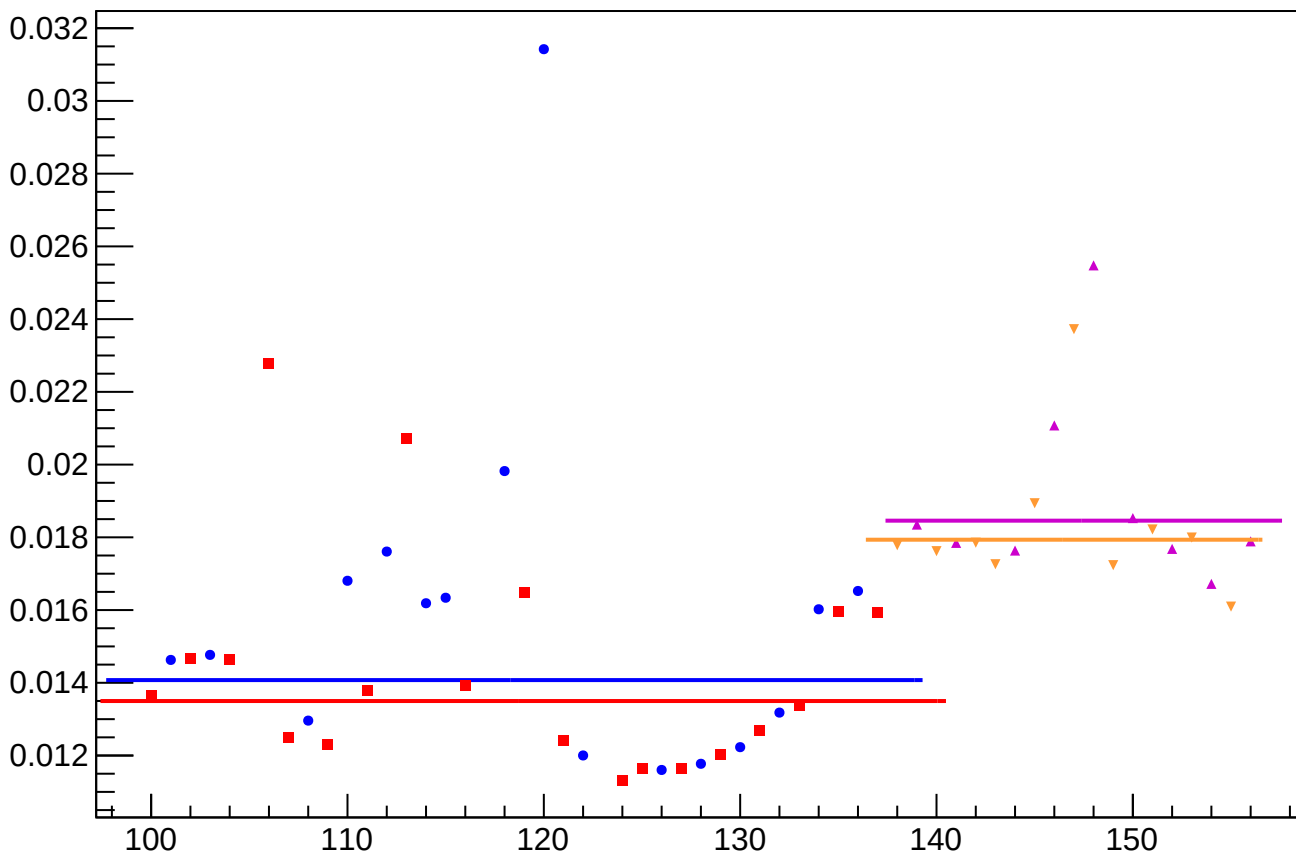
Right: 0.068+/-0.000 χ^2/NDF : 40953433371.5/34

In: -1.250+/-0.000 χ^2/NDF : 180981214928.7/24

Out: -1.261+/-0.000 χ^2/NDF : 181274946353.6/28

All: -1.256+/-0.000 χ^2/NDF : 362259497573.3

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 465421.6/15

Left Out: 0.018+/-0.000 χ^2/NDF :120516.6/9

Right Out: 0.013+/-0.000 χ^2/NDF : 314810.3/18

Left In: 0.018+/-0.000 χ^2/NDF :167692.5/8

Left: 0.018+/-0.000 χ^2/NDF : 294254.8/18

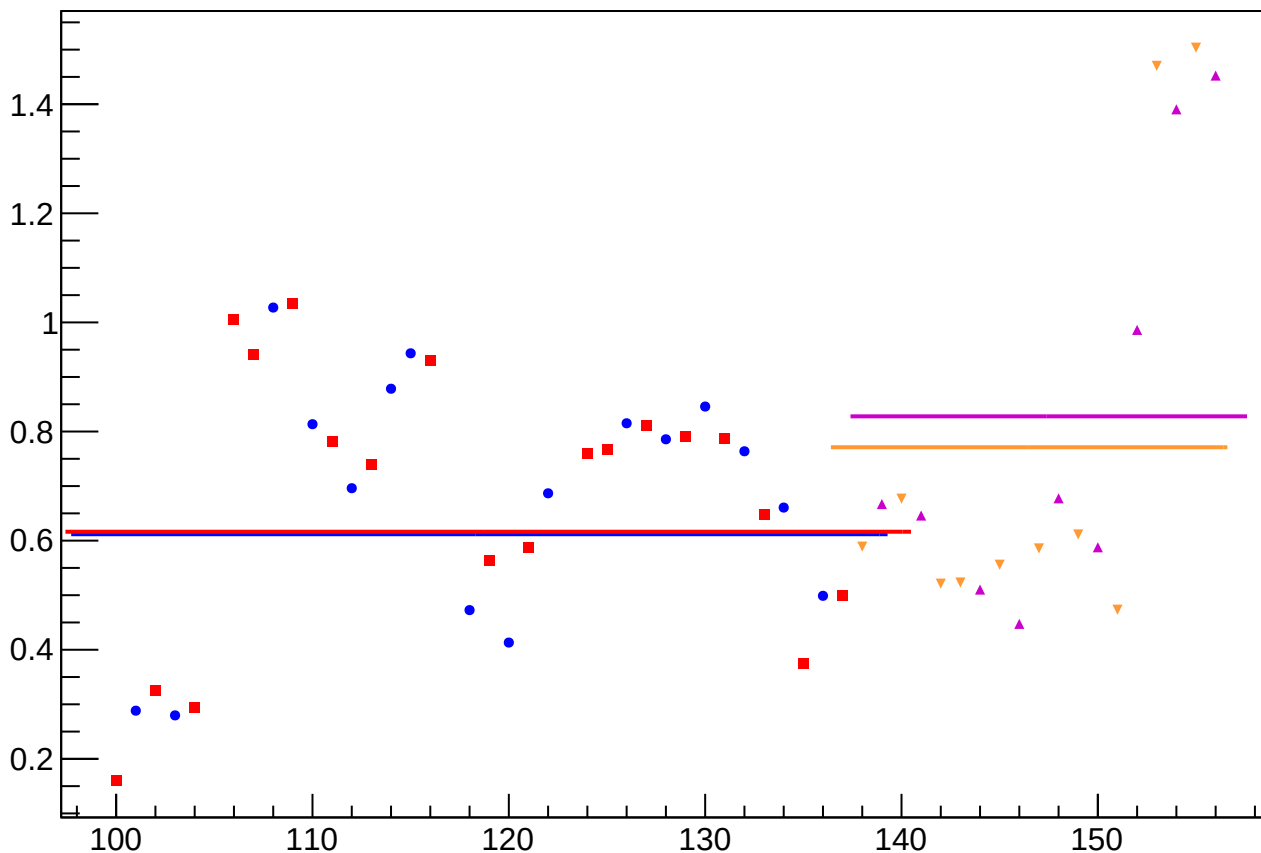
Right: 0.014+/-0.000 χ^2/NDF : 791602.0/34

In: 0.016+/-0.000 χ^2/NDF :1124309.2/24

Out: 0.015+/-0.000 χ^2/NDF :991272.3/28

All: 0.015+/-0.000 χ^2/NDF : 2139416.6/53

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.612 $\pm$ 0.000 χ^2/NDF : 5639014502.0/15

Left Out: 0.771 $\pm$ 0.000 χ^2/NDF :13256543263.3/9

Right Out: 0.616 $\pm$ 0.000 χ^2/NDF : 6419512040.7/18

Left In: 0.828 $\pm$ 0.000 χ^2/NDF :11217983599.3/8

Left: 0.800 $\pm$ 0.000 χ^2/NDF : 24624470098.4/18

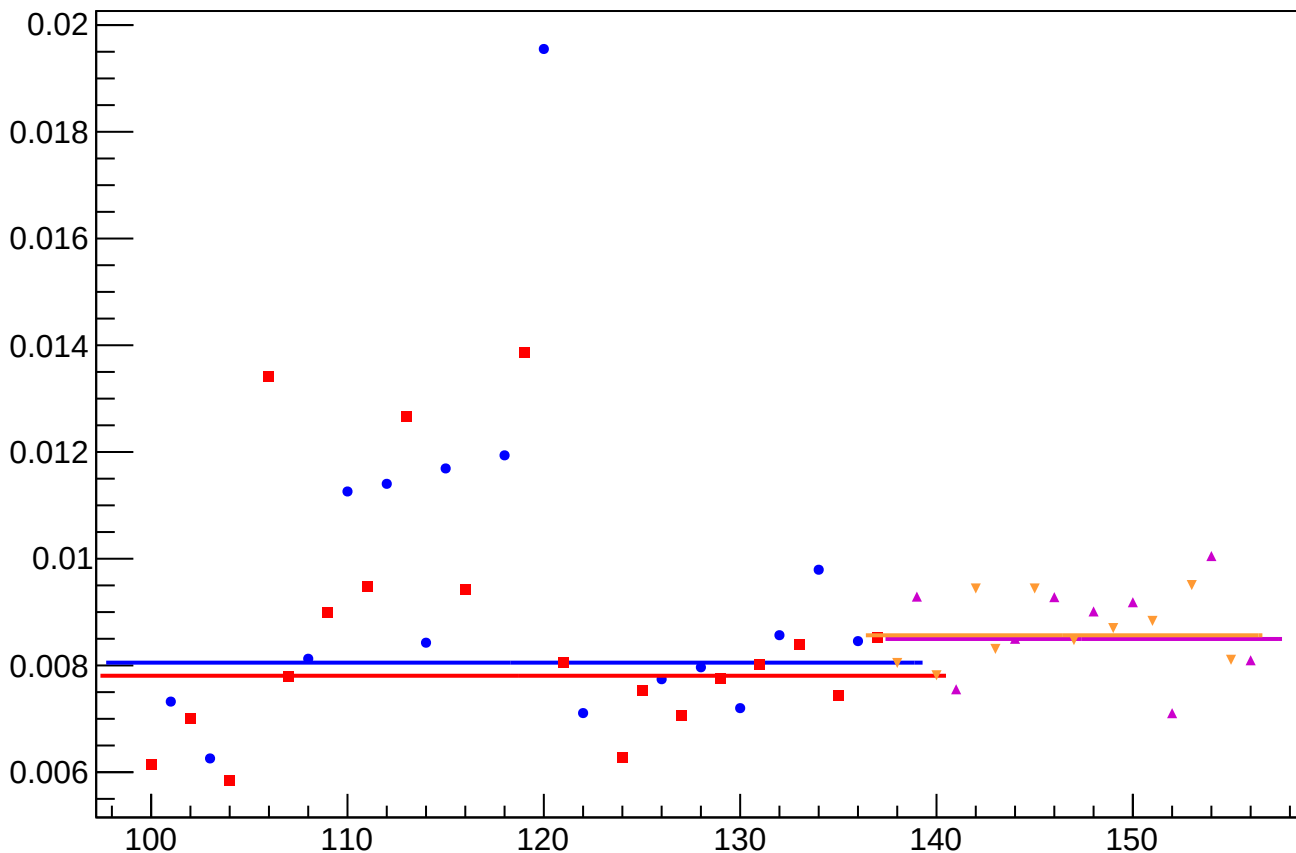
Right: 0.614 $\pm$ 0.000 χ^2/NDF : 12059563453.6/34

In: 0.720 $\pm$ 0.000 χ^2/NDF :19066669915.1/24

Out: 0.689 $\pm$ 0.000 χ^2/NDF :20853526918.2/28

All: 0.704 $\pm$ 0.000 χ^2/NDF : 40015515912.9/5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 598309.5/15

Left Out: 0.009+/-0.000 χ^2/NDF : 60128.6/9

Right Out: 0.008+/-0.000 χ^2/NDF : 587157.2/18

Left In: 0.008+/-0.000 χ^2/NDF : 161523.1/8

Left: 0.009+/-0.000 χ^2/NDF : 222096.1/18

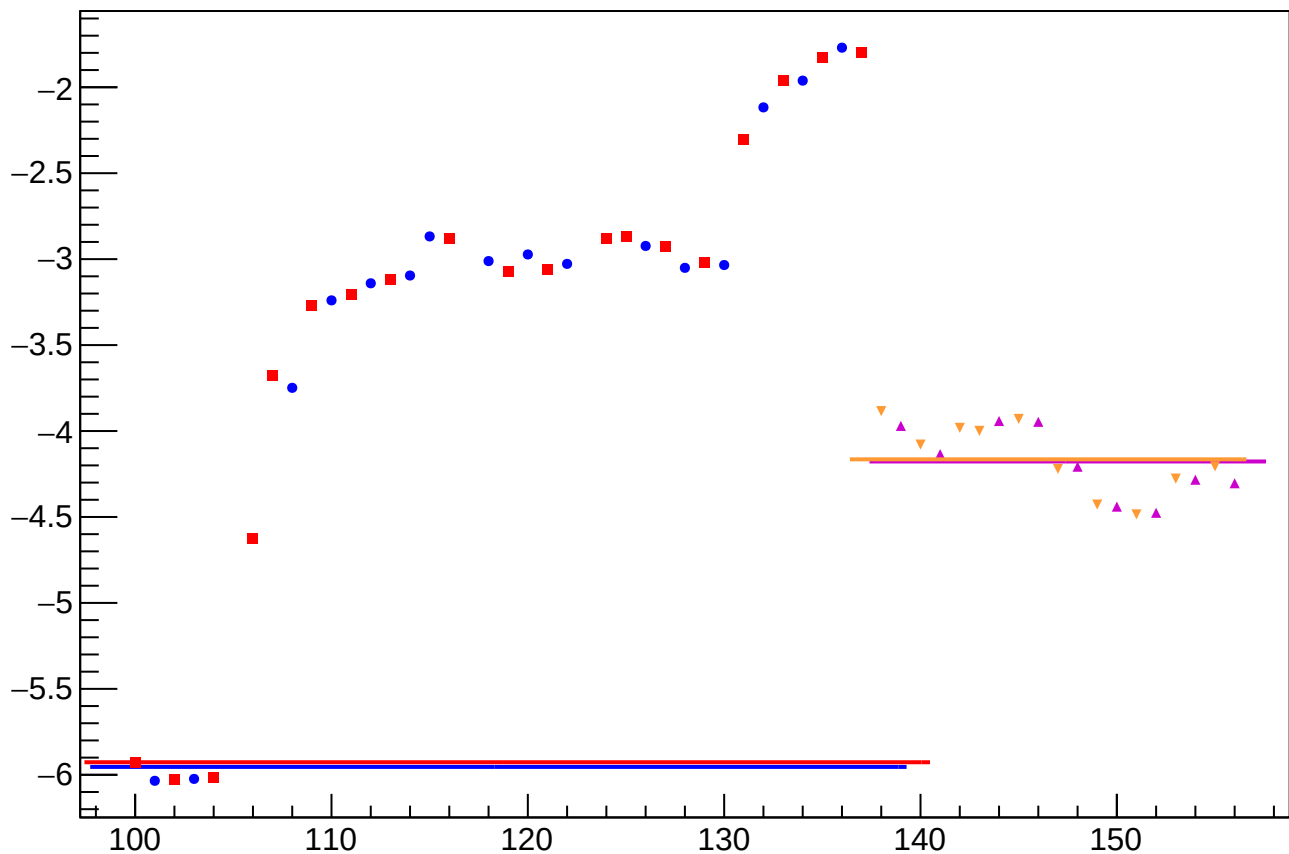
Right: 0.008+/-0.000 χ^2/NDF : 1191469.8/34

In: 0.008+/-0.000 χ^2/NDF : 778465.9/24

Out: 0.008+/-0.000 χ^2/NDF : 703740.4/28

All: 0.008+/-0.000 χ^2/NDF : 1484715.8/53

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.954+/-0.000 χ^2/NDF : 13099475661.5/15

Left Out: -4.165+/-0.000 χ^2/NDF : 50364219.1/9

Right Out: -5.927+/-0.000 χ^2/NDF : 13922819741.5/18

Left In: -4.177+/-0.000 χ^2/NDF : 36420831.8/8

Left: -4.172+/-0.000 χ^2/NDF : 86870103.0/18

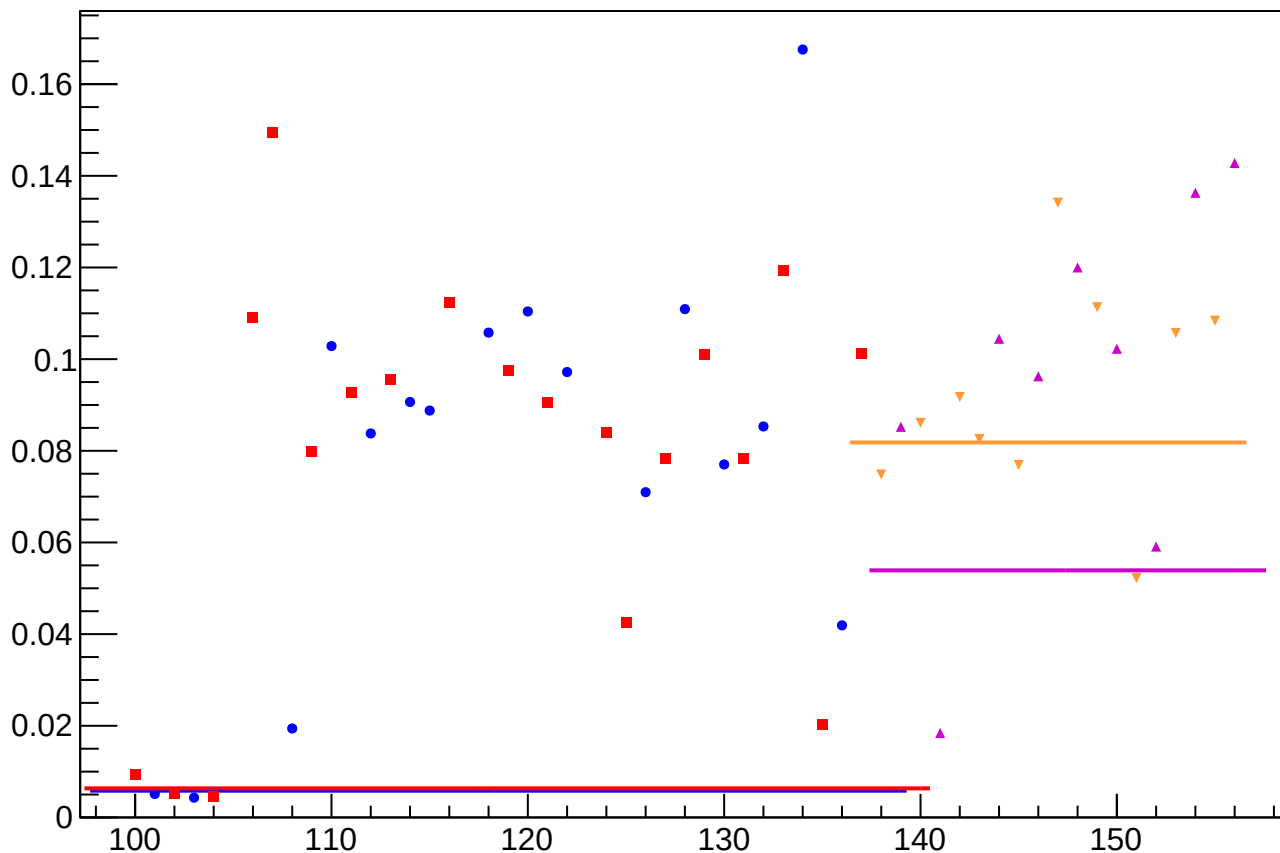
Right: -5.942+/-0.000 χ^2/NDF : 27039435928.9/34

In: -5.910+/-0.000 χ^2/NDF : 17177360201.8/24

Out: -5.888+/-0.000 χ^2/NDF : 16890818432.7/28

All: -5.900+/-0.000 χ^2/NDF : 34079895679.6/42

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 :907650.2/9

Right Out: 0.006+/-0.000 χ^2/NDF : 8751831.3/18

Left In: 0.054+/-0.000 χ^2/NDF :4436391.8/8

Left: 0.066+/-0.000 χ^2/NDF : 6208098.1/18

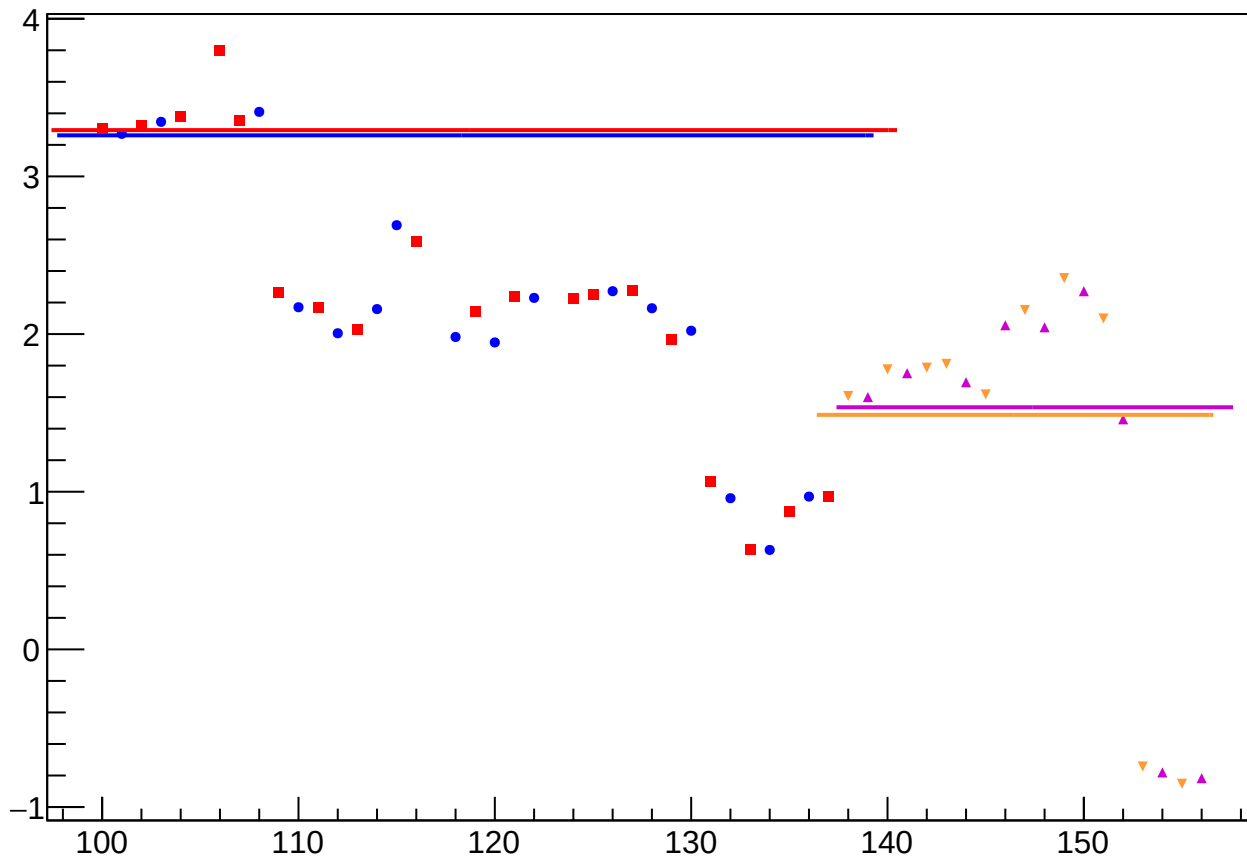
Right: 0.006+/-0.000 χ^2/NDF : 17464019.8/34

In: 0.007+/-0.000 χ^2/NDF :19052655.9/24

Out: 0.008+/-0.000 χ^2/NDF :20364978.2/28

All: 0.007+/-0.000 χ^2/NDF : 39463646.9/53

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 3009624113.9/15

Left Out: 1.488 $\pm$ 0.000 χ^2 /NDF: 791864962.2/9

Right Out: 3.294 $\pm$ 0.000 χ^2 /NDF: 3243748149.8/18

Left In: 1.536 $\pm$ 0.000 χ^2 /NDF: 474488748.9/8

Left: 1.511 $\pm$ 0.000 χ^2 /NDF: 1267304499.9/18

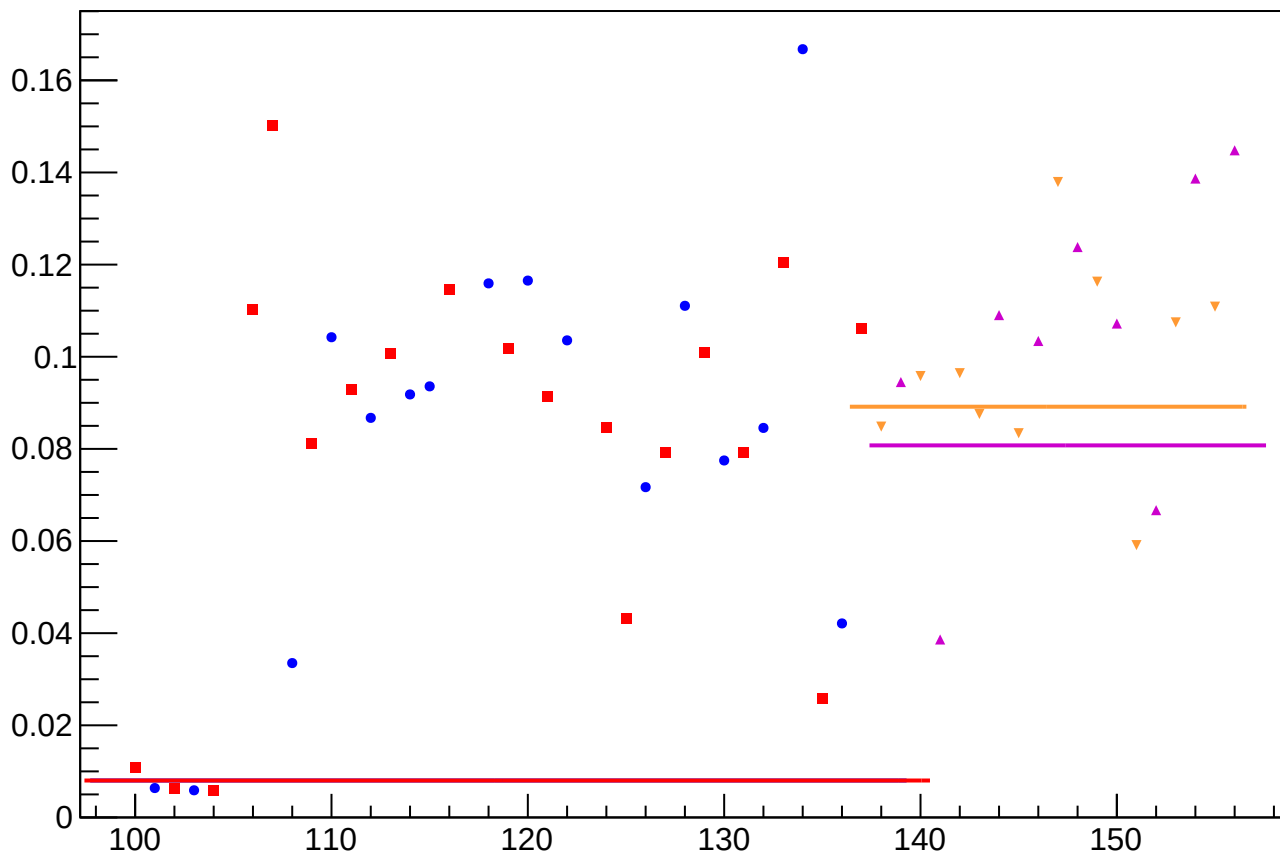
Right: 3.277 $\pm$ 0.000 χ^2 /NDF: 6269939296.1/34

In: 3.217 $\pm$ 0.000 χ^2 /NDF: 5826498595.0/24

Out: 3.244 $\pm$ 0.000 χ^2 /NDF: 6668993249.8/28

All: 3.230 $\pm$ 0.000 χ^2 /NDF: 12506851026.8/5

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 8415681.1/15

Left Out: 0.089+/-0.000 χ^2/NDF : 710025.8/9

Right Out: 0.008+/-0.000 χ^2/NDF : 8542249.7/18

Left In: 0.081+/-0.000 χ^2/NDF : 1965096.8/8

Left: 0.085+/-0.000 χ^2/NDF : 2732854.6/18

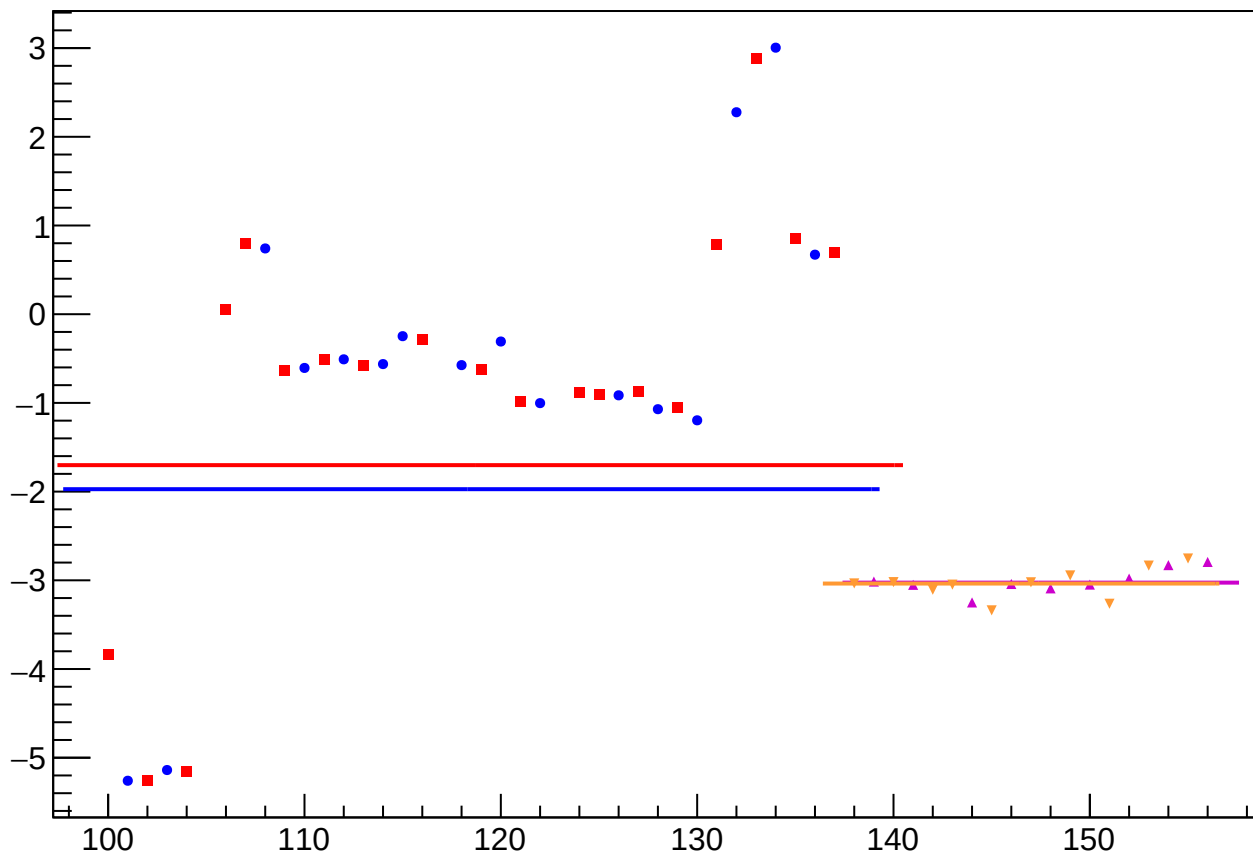
Right: 0.008+/-0.000 χ^2/NDF : 16957931.3/34

In: 0.010+/-0.000 χ^2/NDF : 18712894.2/24

Out: 0.010+/-0.000 χ^2/NDF : 19881437.7/28

All: 0.010+/-0.000 χ^2/NDF : 38599021.3/53

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.973+/-0.000 χ^2/NDF : 161975701237.3/15

Left Out: -3.037+/-0.000 χ^2/NDF : 3294778909.6/9

Right Out: -1.702+/-0.000 χ^2/NDF : 168156981746.0/18

Left In: -3.026+/-0.000 χ^2/NDF : 1721979867.2/8

Left: -3.031+/-0.000 χ^2/NDF : 5022775069.1/18

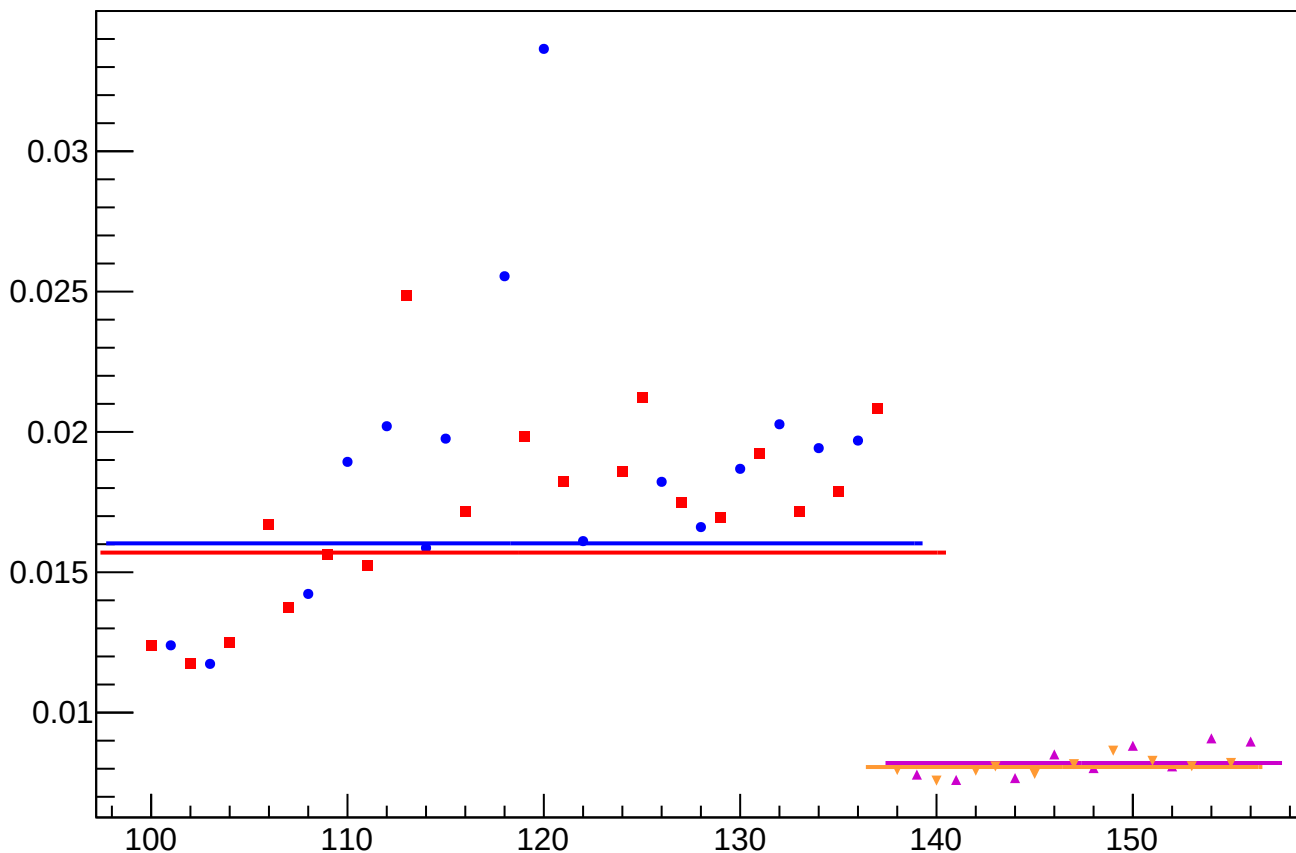
Right: -1.828+/-0.000 χ^2/NDF : 331019535290.3/34

In: -2.846+/-0.000 χ^2/NDF : 184548338948.7/24

Out: -2.792+/-0.000 χ^2/NDF : 209038192103.0/28

All: -2.818+/-0.000 χ^2/NDF : 393791492060.9

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 :17874.2/9

Right Out: 0.016+/-0.000 χ^2/NDF : 504766.0/18

Left In: 0.008+/-0.000 χ^2/NDF :61953.8/8

Left: 0.008+/-0.000 χ^2/NDF : 82149.5/18

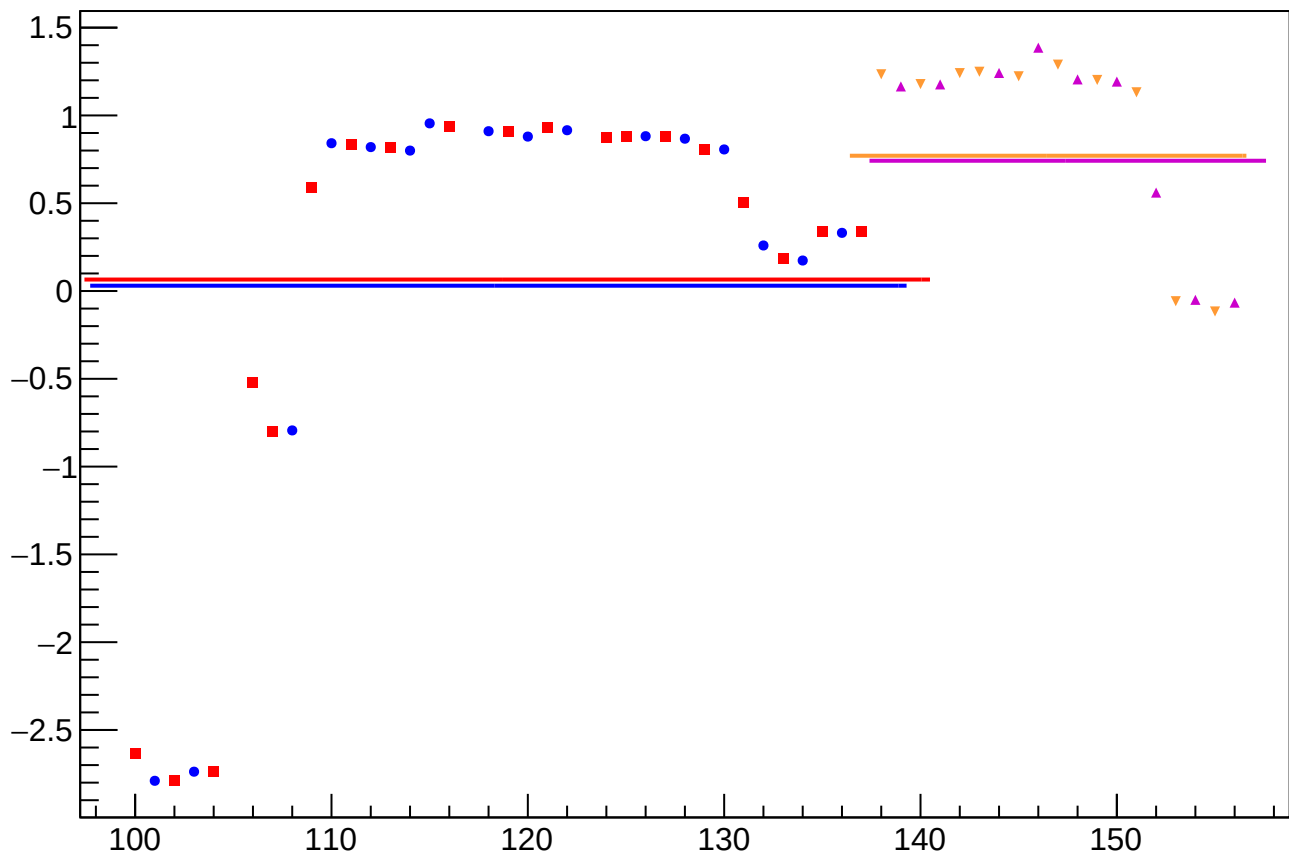
Right: 0.016+/-0.000 χ^2/NDF : 1243118.0/34

In: 0.010+/-0.000 χ^2/NDF :3098850.8/24

Out: 0.009+/-0.000 χ^2/NDF :2985158.2/28

All: 0.009+/-0.000 χ^2/NDF : 6084830.2/53

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 851677270962.0/15

Left Out: 0.771+/-0.000 χ^2/NDF : 46785858126.9/9

Right Out: 0.065+/-0.000 χ^2/NDF : 935478930138.7/18

Left In: 0.742+/-0.000 χ^2/NDF : 38434143509.0/8

Left: 0.756+/-0.000 χ^2/NDF : 85269029180.2/18

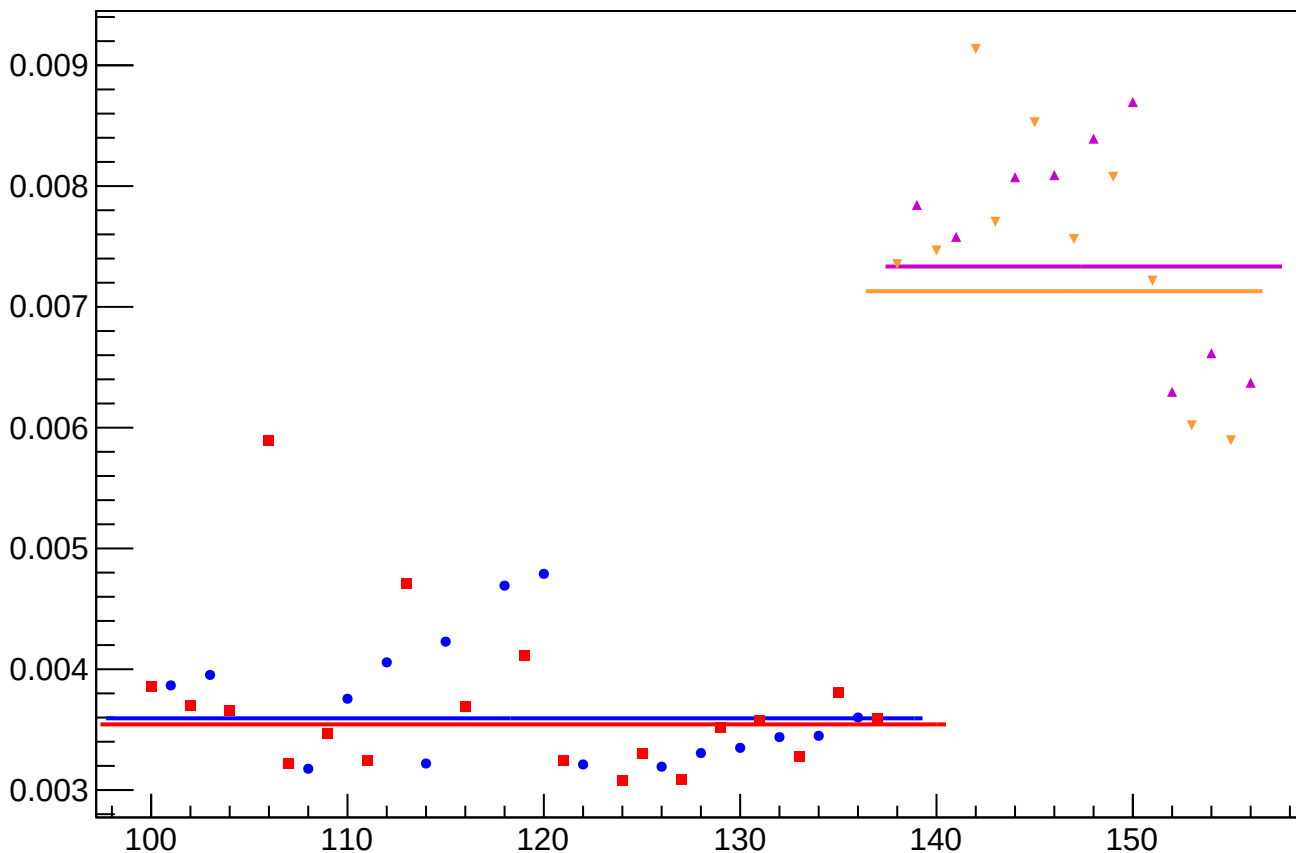
Right: 0.048+/-0.000 χ^2/NDF : 1787488269945.7/34

In: 0.161+/-0.000 χ^2/NDF : 938711236374.3/24

Out: 0.192+/-0.000 χ^2/NDF : 1032100726919.7/28

All: 0.177+/-0.000 χ^2/NDF : 1971114487341.0/42

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 180415.0/15

Left Out: 0.007+/-0.000 χ^2/NDF :217386.2/9

Right Out: 0.004+/-0.000 χ^2/NDF : 224729.1/18

Left In: 0.007+/-0.000 χ^2/NDF :179090.9/8

Left: 0.007+/-0.000 χ^2/NDF : 401472.2/18

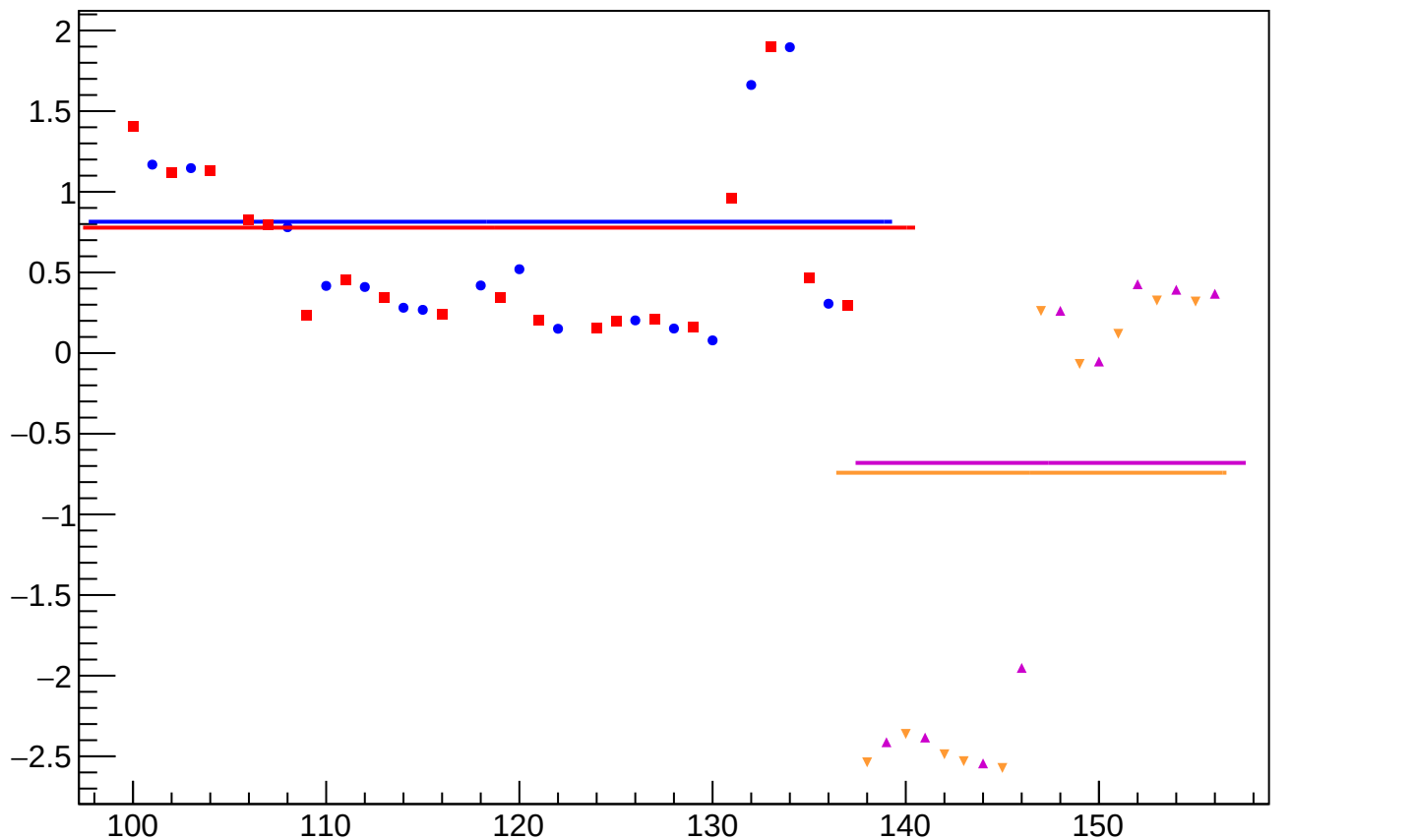
Right: 0.004+/-0.000 χ^2/NDF : 406509.3/34

In: 0.004+/-0.000 χ^2/NDF :3044743.2/24

Out: 0.004+/-0.000 χ^2/NDF :3020528.5/28

All: 0.004+/-0.000 χ^2/NDF : 6071470.7/53

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.814 $\pm$ 0.000 χ^2 /NDF: 35412149008.2/15

Left Out: -0.742 $\pm$ 0.000 χ^2 /NDF: 277004220050.4/9

Right Out: 0.778 $\pm$ 0.000 χ^2 /NDF: 34603328062.2/18

Left In: -0.681 $\pm$ 0.000 χ^2 /NDF: 252111531519.0/8

Left: -0.712 $\pm$ 0.000 χ^2 /NDF: 529414131582.4/18

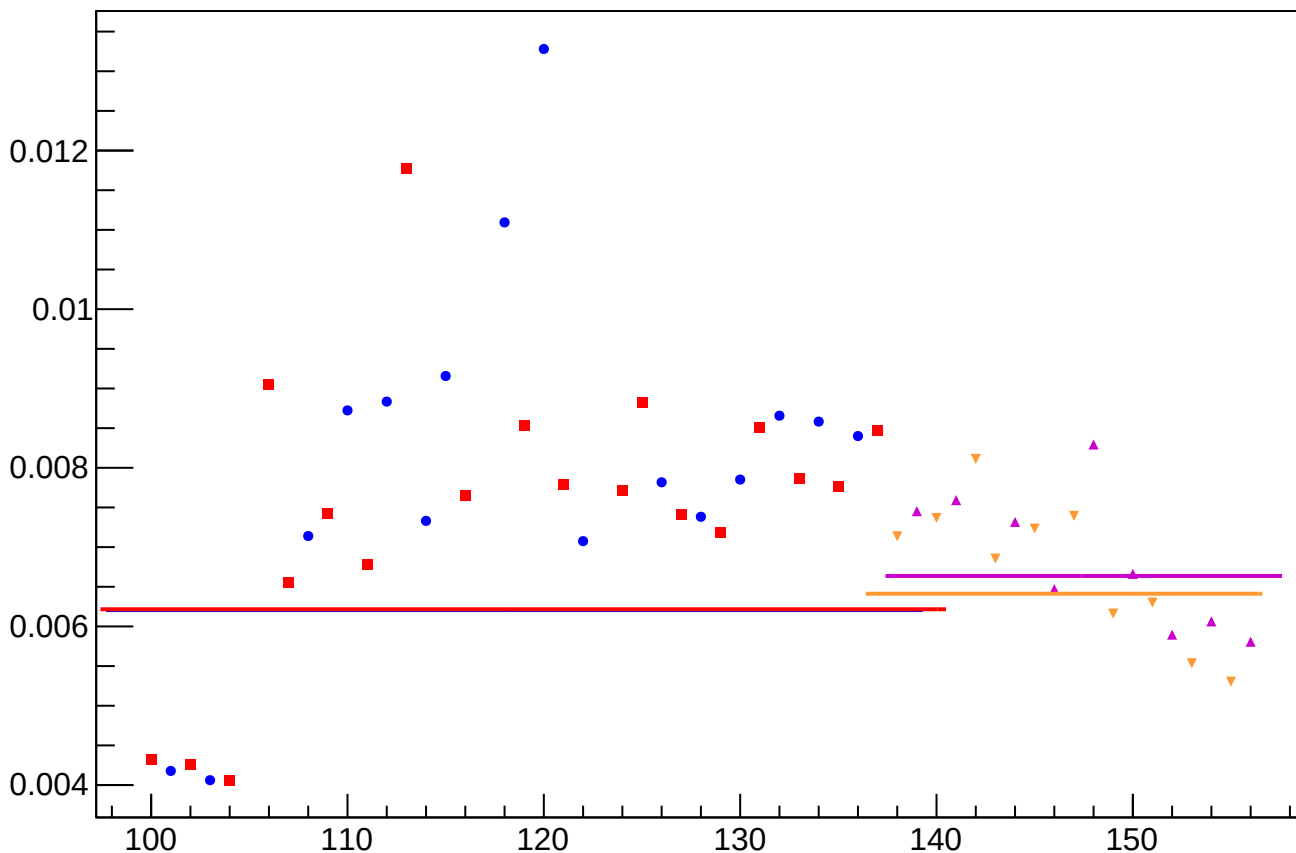
Right: 0.795 $\pm$ 0.000 χ^2 /NDF: 70115223181.3/34

In: 0.037 $\pm$ 0.000 χ^2 /NDF: 455132127369.1/24

Out: -0.004 $\pm$ 0.000 χ^2 /NDF: 496285425396.2/28

All: 0.016 $\pm$ 0.000 χ^2 /NDF: 951683289223.7

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1423886.1/15

Left Out: 0.006+/-0.000 χ^2/NDF :229574.5/9

Right Out: 0.006+/-0.000 χ^2/NDF : 1161117.9/18

Left In: 0.007+/-0.000 χ^2/NDF :186865.6/8

Left: 0.007+/-0.000 χ^2/NDF : 424504.9/18

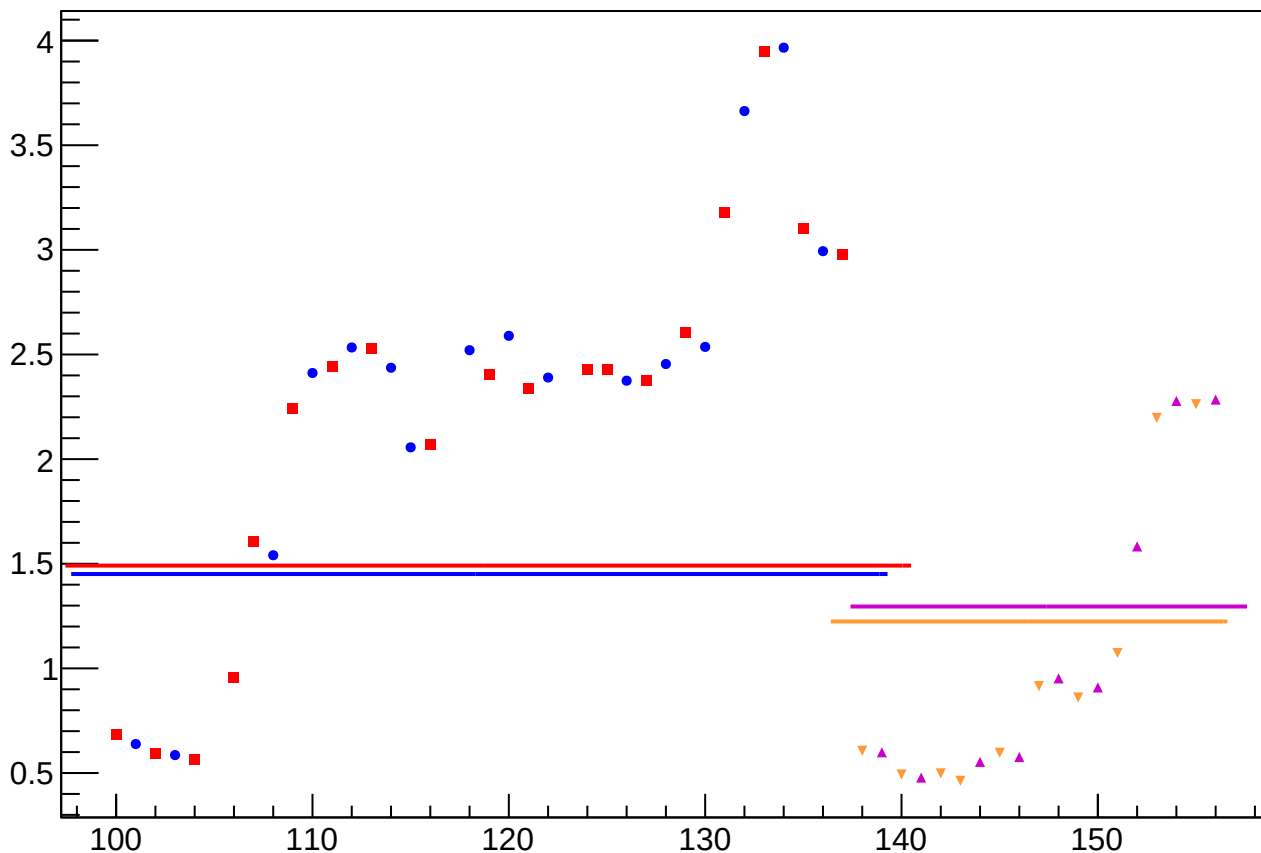
Right: 0.006+/-0.000 χ^2/NDF : 2585020.0/34

In: 0.006+/-0.000 χ^2/NDF :1638526.0/24

Out: 0.006+/-0.000 χ^2/NDF :1396818.4/28

All: 0.006+/-0.000 χ^2/NDF : 3039273.9/53

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.451+/-0.000 χ^2/NDF : 169635774704.4/15

Left Out: 1.224+/-0.000 χ^2/NDF : 83472161122.9/9

Right Out: 1.491+/-0.000 χ^2/NDF : 186952709821.0/18

Left In: 1.296+/-0.000 χ^2/NDF : 78953707211.7/8

Left: 1.259+/-0.000 χ^2/NDF : 162820139655.4/18

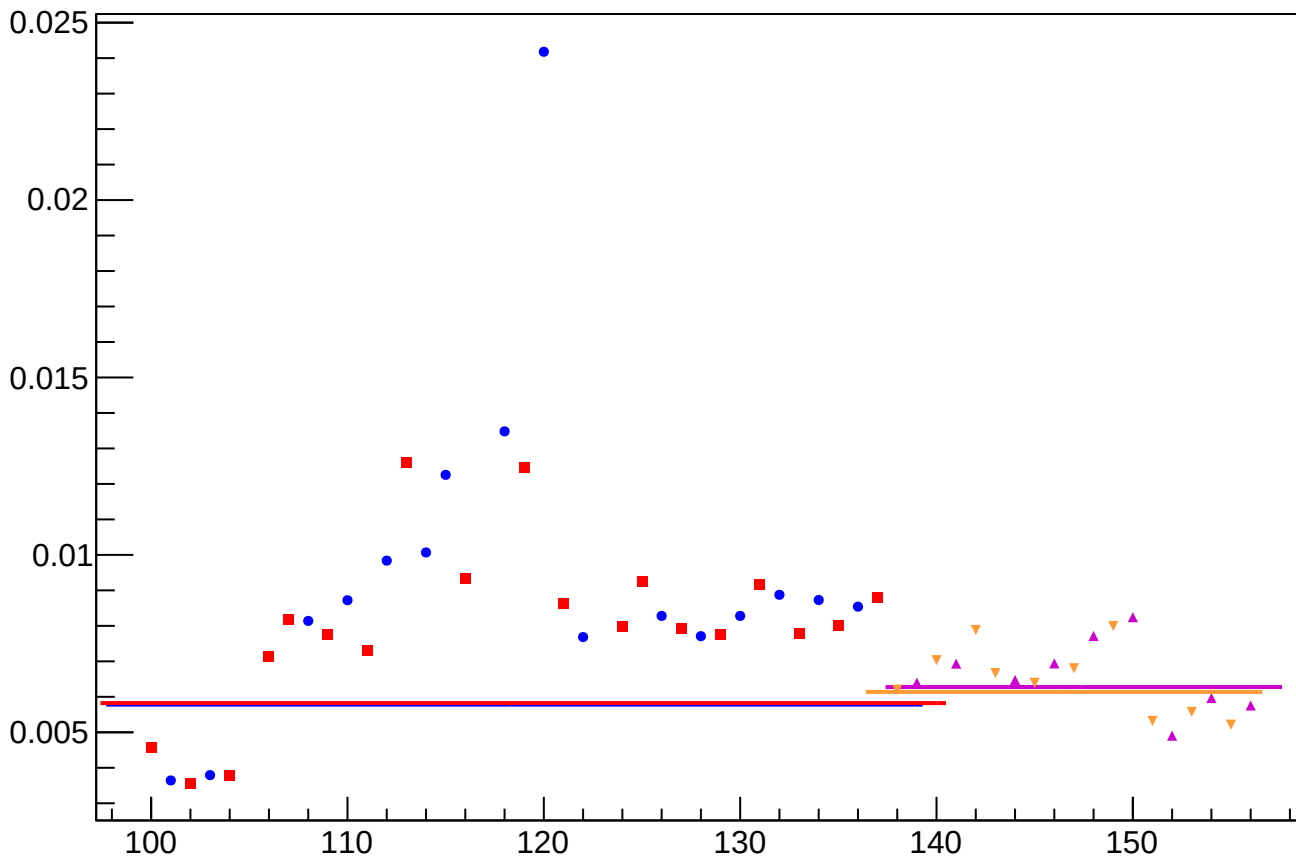
Right: 1.472+/-0.000 χ^2/NDF : 356714546192.4/34

In: 1.373+/-0.000 χ^2/NDF : 250406958650.1/24

Out: 1.359+/-0.000 χ^2/NDF : 276099498348.9/28

All: 1.366+/-0.000 χ^2/NDF : 526533834260.1

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2213885.3/15

Left Out: 0.006+/-0.000 χ^2/NDF :231484.9/9

Right Out: 0.006+/-0.000 χ^2/NDF : 1955751.4/18

Left In: 0.006+/-0.000 χ^2/NDF :276795.8/8

Left: 0.006+/-0.000 χ^2/NDF : 511183.8/18

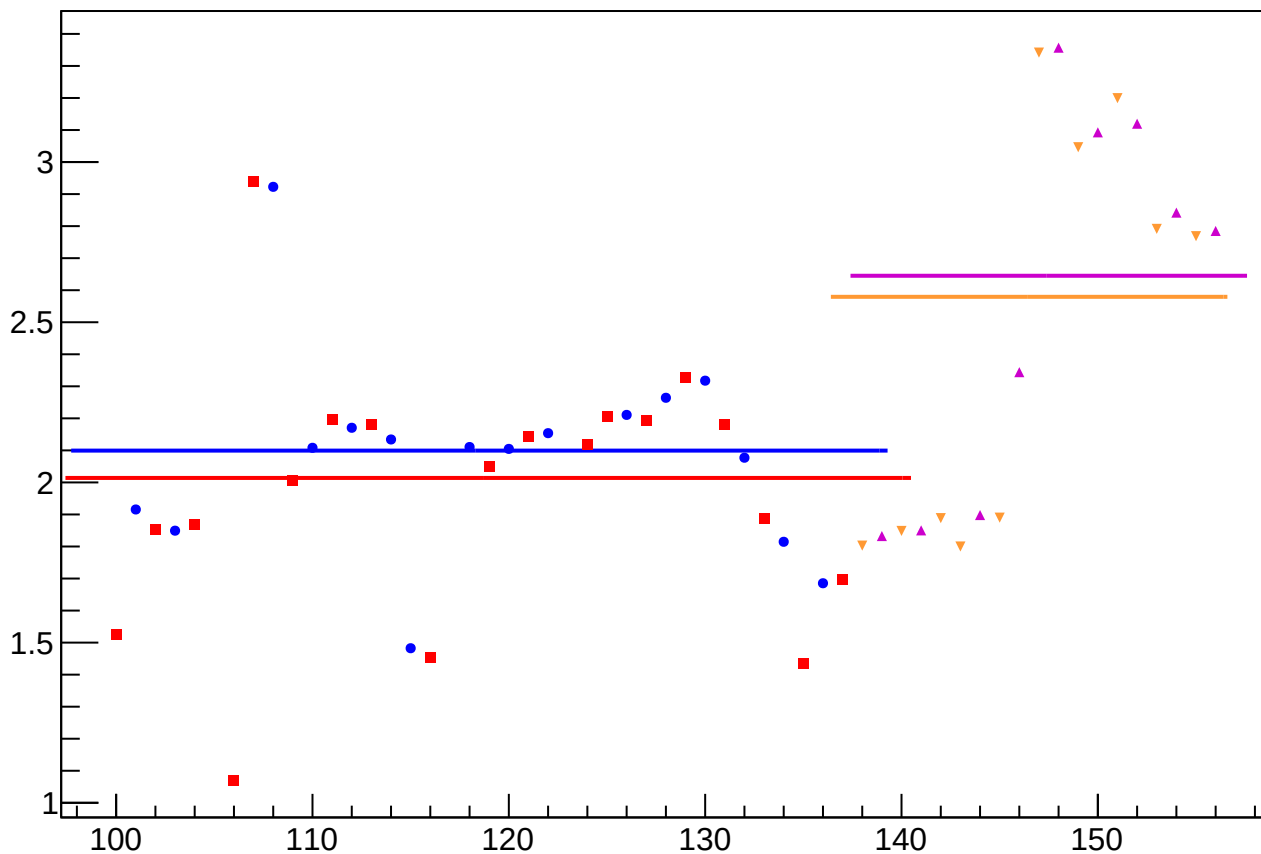
Right: 0.006+/-0.000 χ^2/NDF : 4169928.0/34

In: 0.006+/-0.000 χ^2/NDF :2527755.2/24

Out: 0.006+/-0.000 χ^2/NDF :2203074.0/28

All: 0.006+/-0.000 χ^2/NDF : 4731624.1/53

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.099+/-0.000 χ^2/NDF : 13928556396.8/15

Left Out: 2.579+/-0.000 χ^2/NDF : 39849678743.9/9

Right Out: 2.014+/-0.000 χ^2/NDF : 19615856596.5/18

Left In: 2.645+/-0.000 χ^2/NDF : 33230381815.6/8

Left: 2.612+/-0.000 χ^2/NDF : 73320028332.8/18

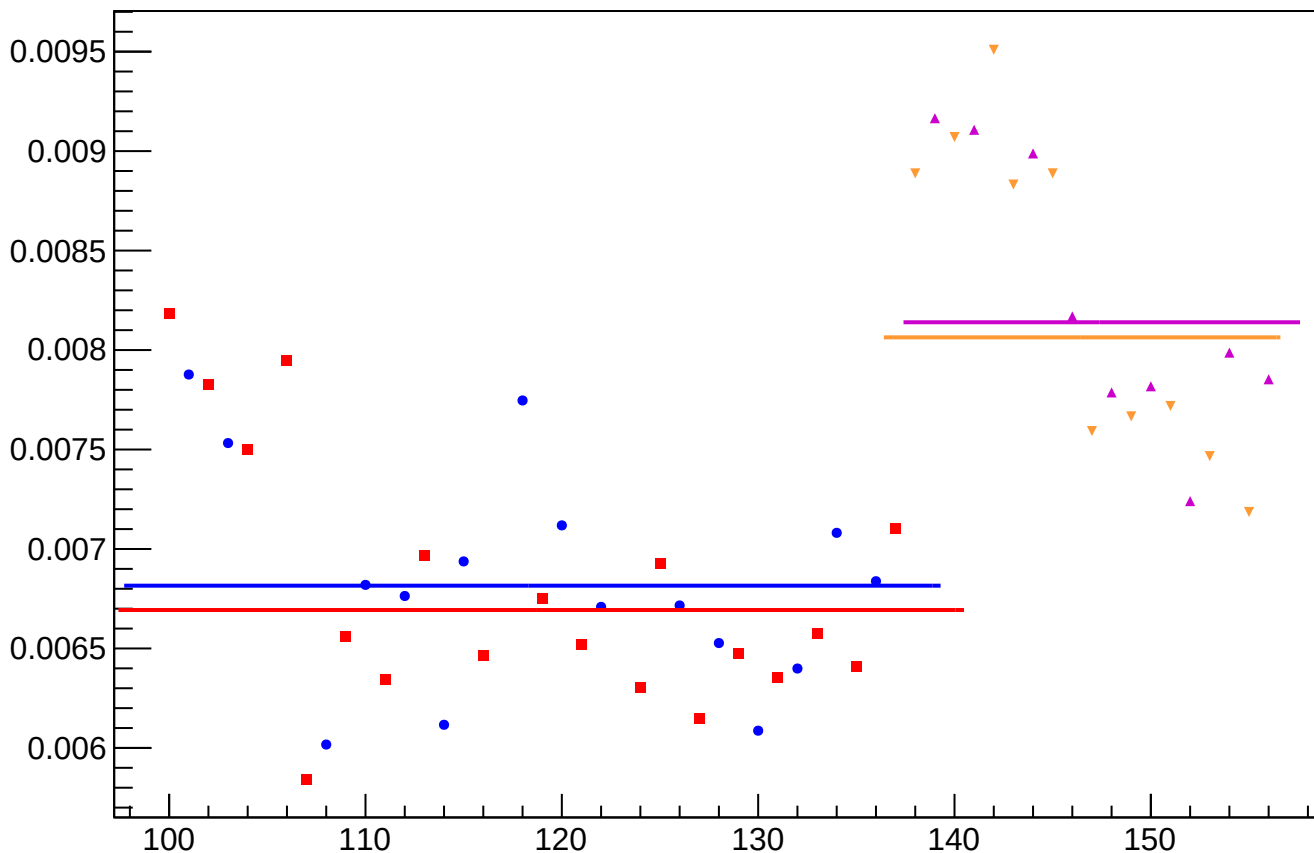
Right: 2.055+/-0.000 χ^2/NDF : 34101176841.4/34

In: 2.334+/-0.000 χ^2/NDF : 65960420698.9/24

Out: 2.247+/-0.000 χ^2/NDF : 80446772076.3/28

All: 2.289+/-0.000 χ^2/NDF : 147404893976.8

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 86781.0/15

Left Out: 0.008+/-0.000 χ^2/NDF : 121004.6/9

Right Out: 0.007+/-0.000 χ^2/NDF : 87876.9/18

Left In: 0.008+/-0.000 χ^2/NDF : 87649.9/8

Left: 0.008+/-0.000 χ^2/NDF : 209294.3/18

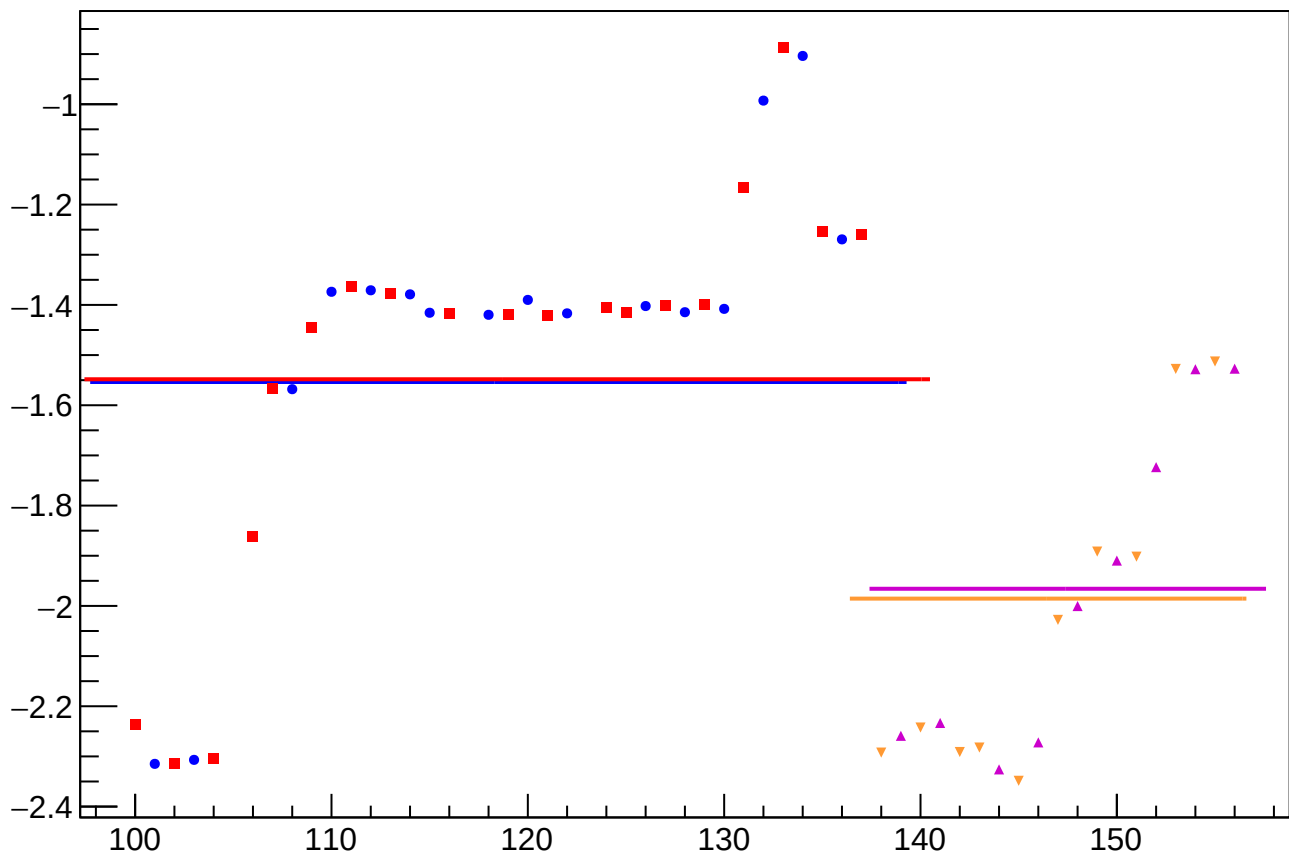
Right: 0.007+/-0.000 χ^2/NDF : 176946.8/34

In: 0.007+/-0.000 χ^2/NDF : 395767.1/24

Out: 0.007+/-0.000 χ^2/NDF : 455482.3/28

All: 0.007+/-0.000 χ^2/NDF : 855486.1/53

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 175176621986.0/15

Left Out: -1.985+/-0.000 χ^2/NDF : 70300154070.1/9

Right Out: -1.548+/-0.000 χ^2/NDF : 174743666302.8/18

Left In: -1.966+/-0.000 χ^2/NDF : 66189081267.4/8

Left: -1.976+/-0.000 χ^2/NDF : 136623644551.7/18

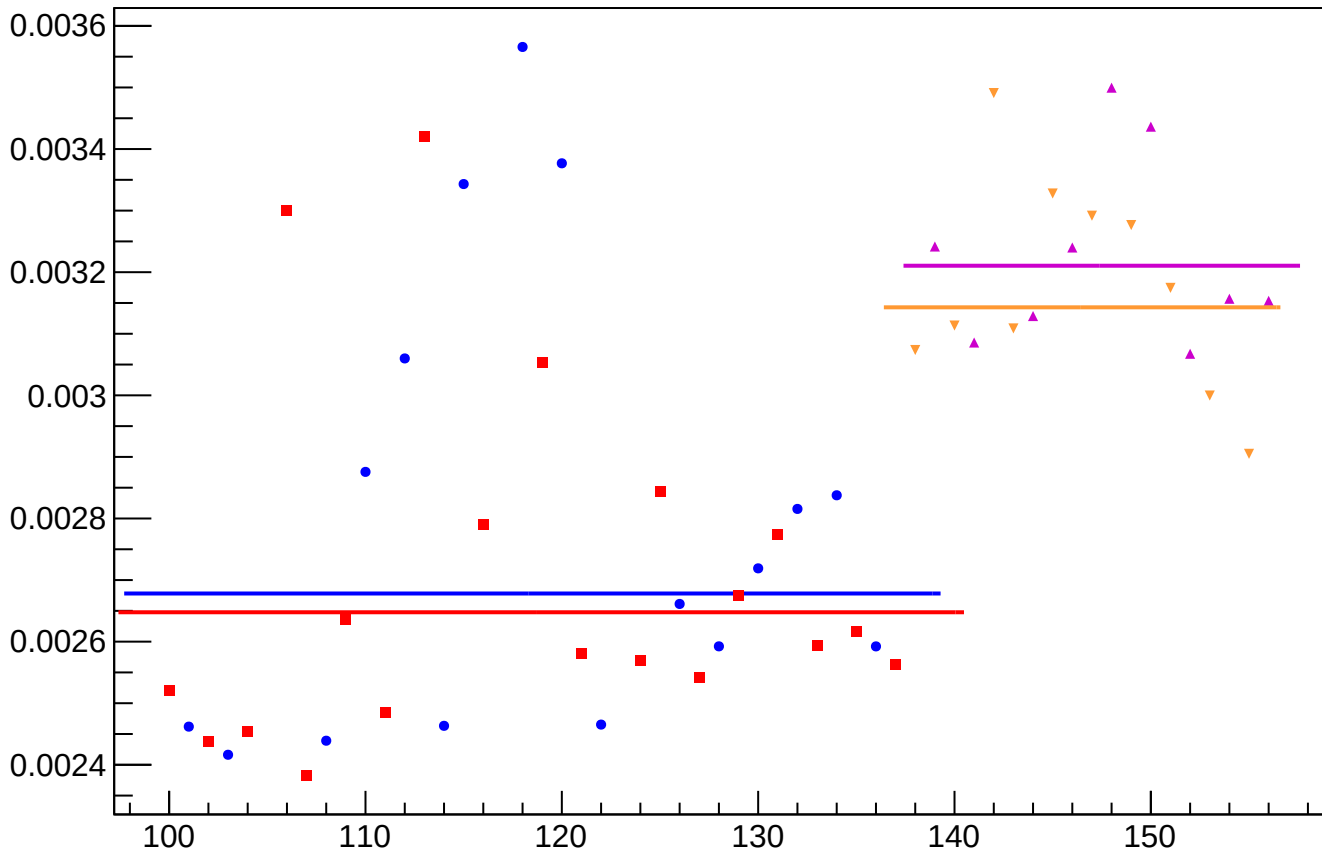
Right: -1.551+/-0.000 χ^2/NDF : 349934542439.1/34

In: -1.728+/-0.000 χ^2/NDF : 308731976438.3/24

Out: -1.729+/-0.000 χ^2/NDF : 324316785569.0/28

All: -1.729+/-0.000 χ^2/NDF : 633049799768.6/52

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 :33178.6/9

Right Out: 0.003+/-0.000 χ^2/NDF : 116150.5/18

Left In: 0.003+/-0.000 χ^2/NDF :25932.7/8

Left: 0.003+/-0.000 χ^2/NDF : 62296.1/18

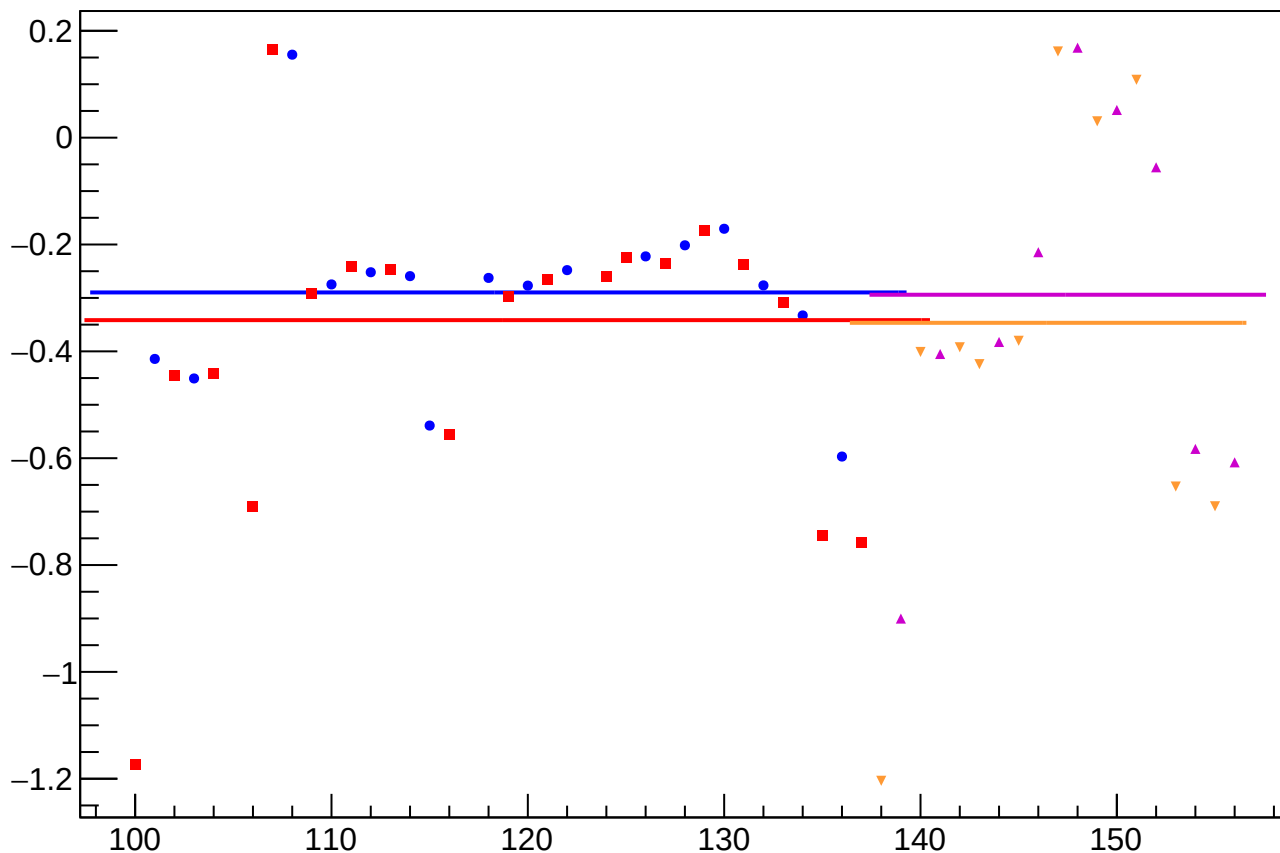
Right: 0.003+/-0.000 χ^2/NDF : 274930.8/34

In: 0.003+/-0.000 χ^2/NDF :408532.2/24

Out: 0.003+/-0.000 χ^2/NDF :352726.9/28

All: 0.003+/-0.000 χ^2/NDF : 765555.8/53

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.290+/-0.000 χ^2/NDF : 1645174238.4/15

Left Out: -0.347+/-0.000 χ^2/NDF : 6503605720.1/9

Right Out: -0.342+/-0.000 χ^2/NDF : 2609243421.7/18

Left In: -0.294+/-0.000 χ^2/NDF : 4162146956.5/8

Left: -0.321+/-0.000 χ^2/NDF : 10721366735.6/18

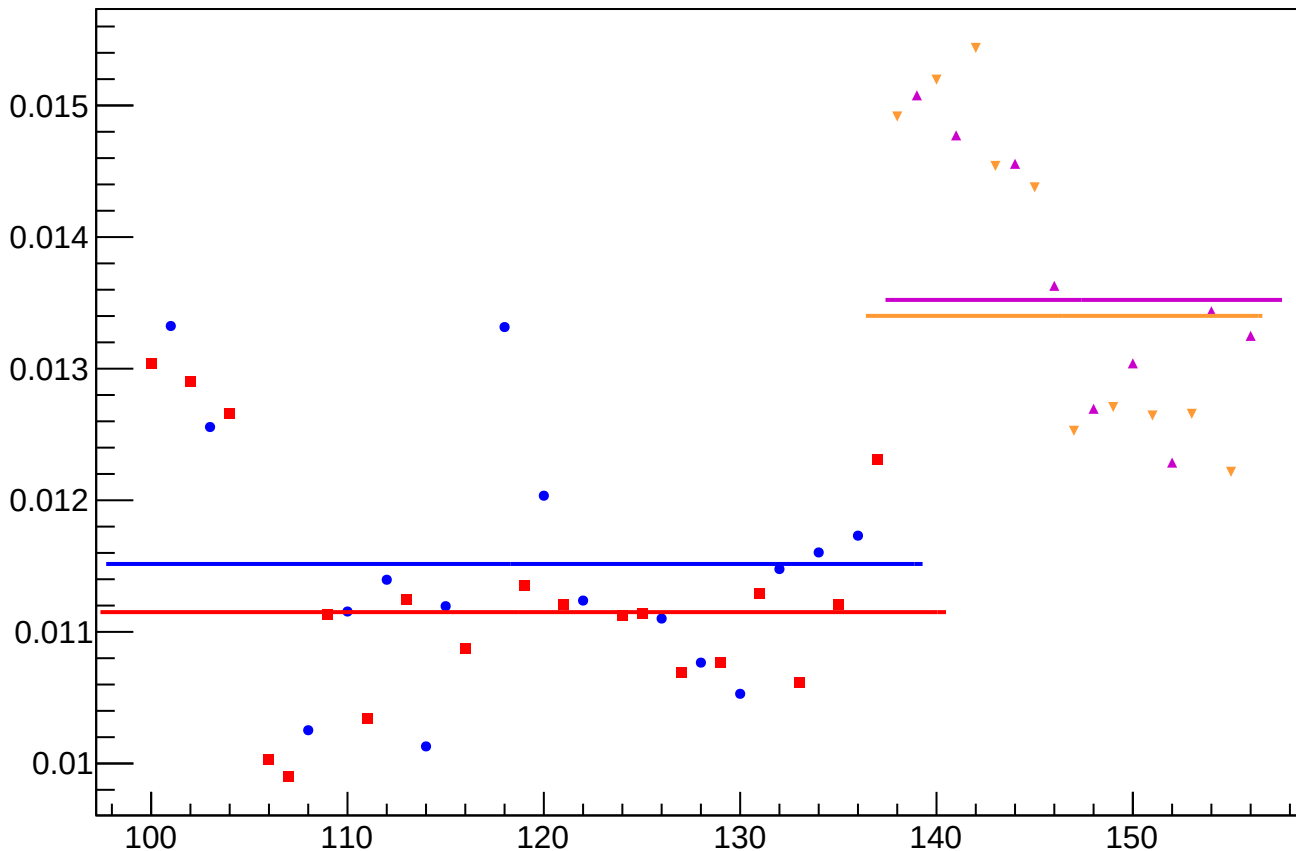
Right: -0.317+/-0.000 χ^2/NDF : 4328413510.6/34

In: -0.292+/-0.000 χ^2/NDF : 5807743178.8/24

Out: -0.344+/-0.000 χ^2/NDF : 9113451083.3/28

All: -0.319+/-0.000 χ^2/NDF : 15050328309.4/4

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 84278.9/15

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:104496.6/9

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 70560.1/18

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:63468.5/8

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 168557.6/18

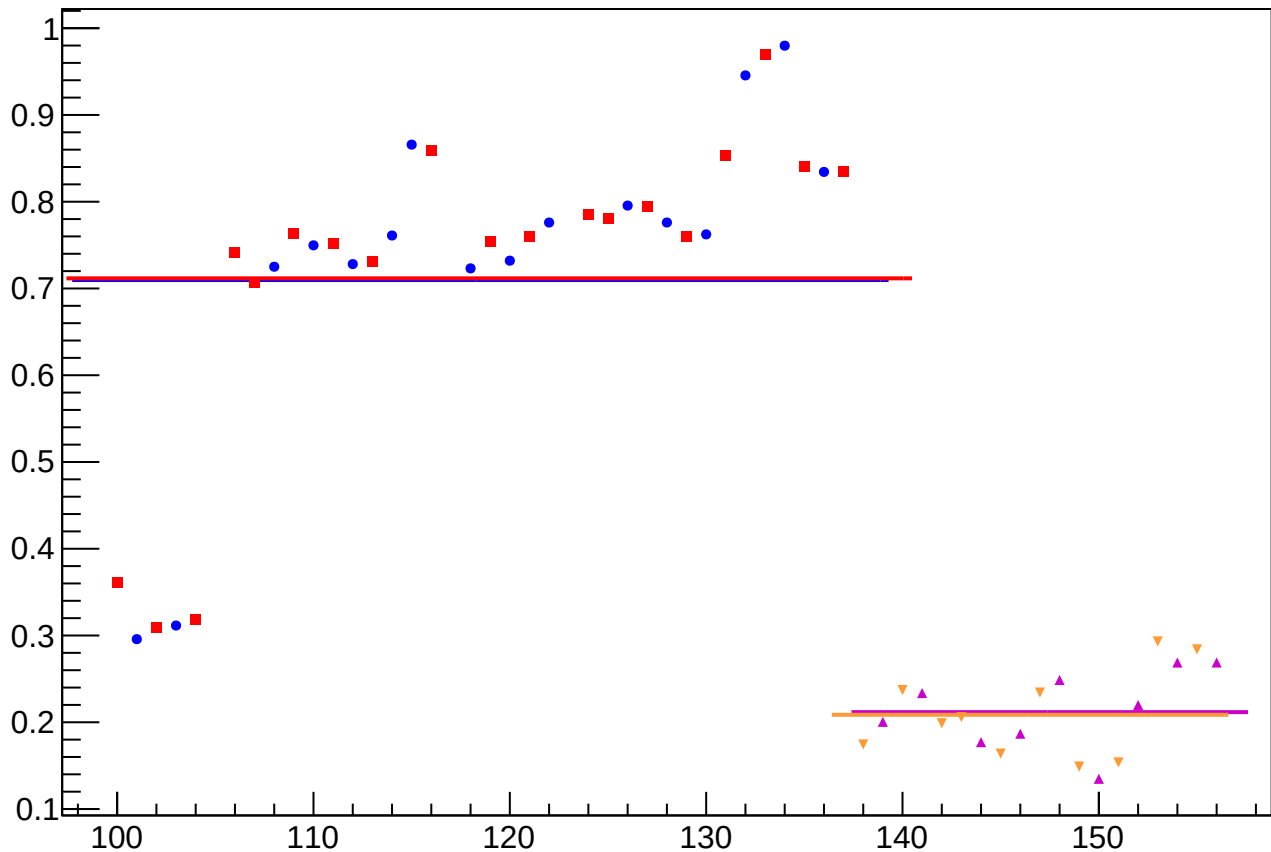
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 162212.6/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:329824.1/24

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:417817.0/28

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 756949.0/53

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.710 $\pm$ 0.000 χ^2 /NDF: 48924347494.6/15

Left Out: 0.209 $\pm$ 0.000 χ^2 /NDF: 3922439898.6/9

Right Out: 0.712 $\pm$ 0.000 χ^2 /NDF: 44174681920.8/18

Left In: 0.212 $\pm$ 0.000 χ^2 /NDF: 2857248757.0/8

Left: 0.210 $\pm$ 0.000 χ^2 /NDF: 6787295806.4/18

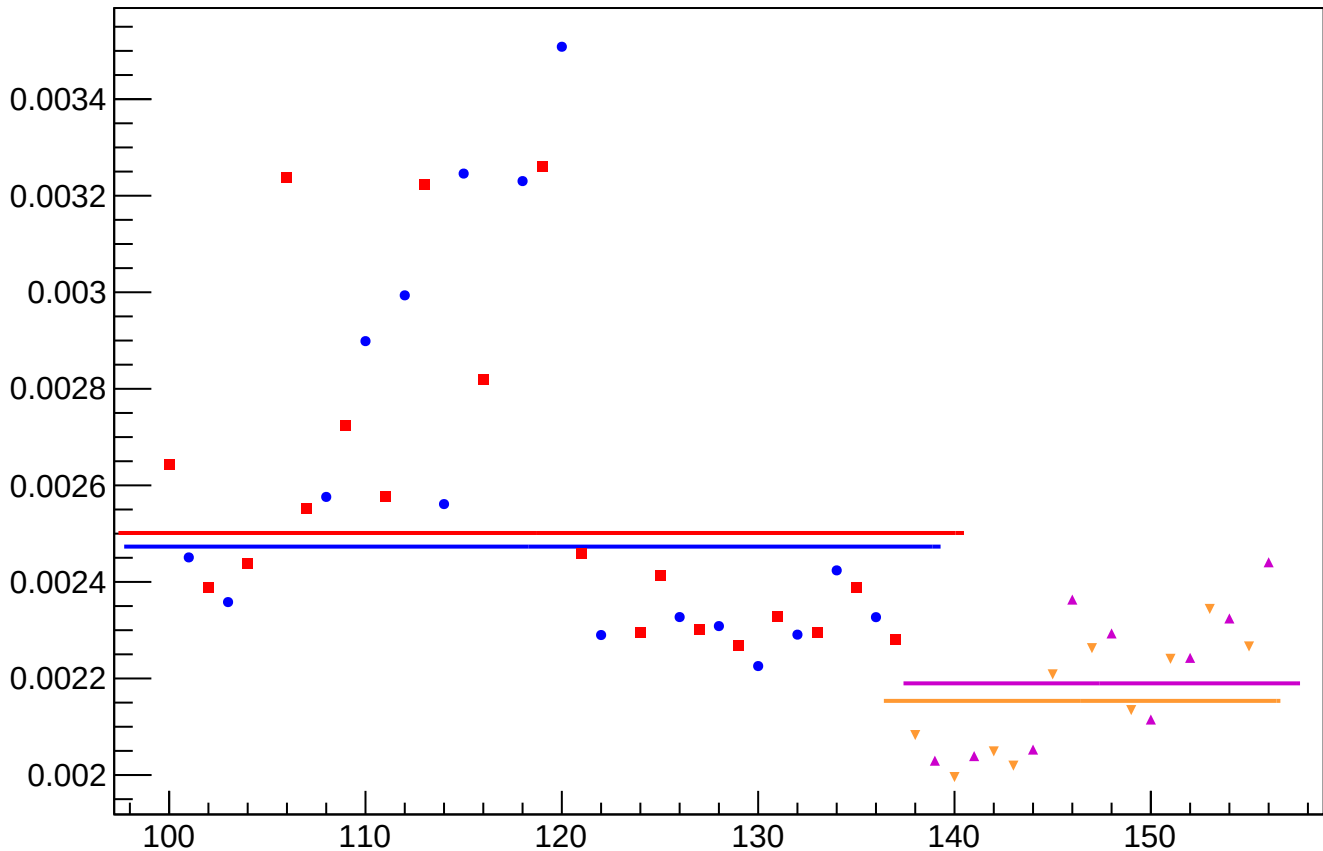
Right: 0.711 $\pm$ 0.000 χ^2 /NDF: 93101138571.1/34

In: 0.416 $\pm$ 0.000 χ^2 /NDF: 214997933318.3/24

Out: 0.411 $\pm$ 0.000 χ^2 /NDF: 217929891766.9/28

All: 0.414 $\pm$ 0.000 χ^2 /NDF: 432954232319.6

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 :43839.9/9

Right Out: 0.003+/-0.000 χ^2/NDF : 177427.2/18

Left In: 0.002+/-0.000 χ^2/NDF :67080.7/8

Left: 0.002+/-0.000 χ^2/NDF : 113073.0/18

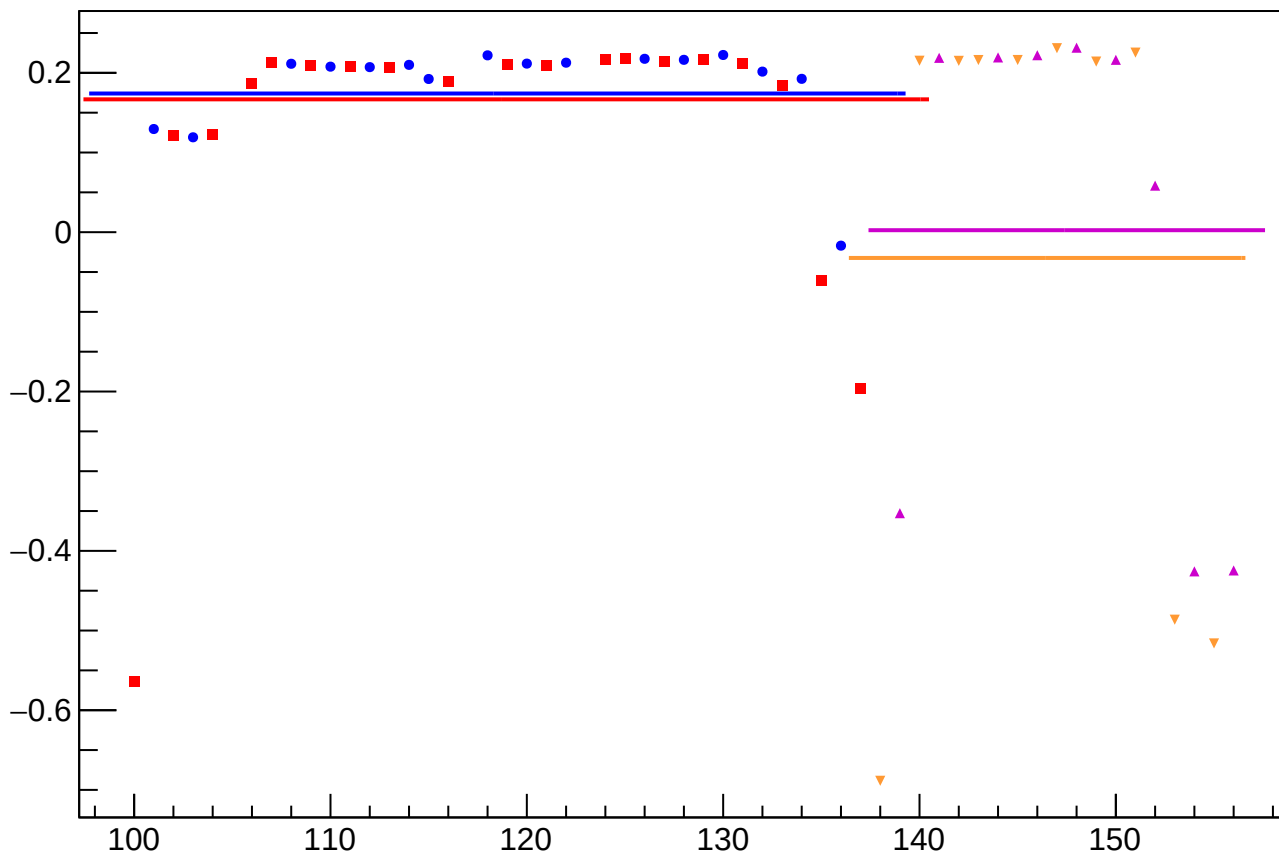
Right: 0.002+/-0.000 χ^2/NDF : 386364.7/34

In: 0.002+/-0.000 χ^2/NDF :380729.9/24

Out: 0.002+/-0.000 χ^2/NDF :383611.2/28

All: 0.002+/-0.000 χ^2/NDF : 764750.3/53

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.174+/-0.000 χ^2/NDF : 401946344.0/15

Left Out: -0.032+/-0.000 χ^2/NDF : 6553955289.4/9

Right Out: 0.167+/-0.000 χ^2/NDF : 894131198.6/18

Left In: 0.002+/-0.000 χ^2/NDF : 3882579394.9/8

Left: -0.015+/-0.000 χ^2/NDF : 10466418894.7/18

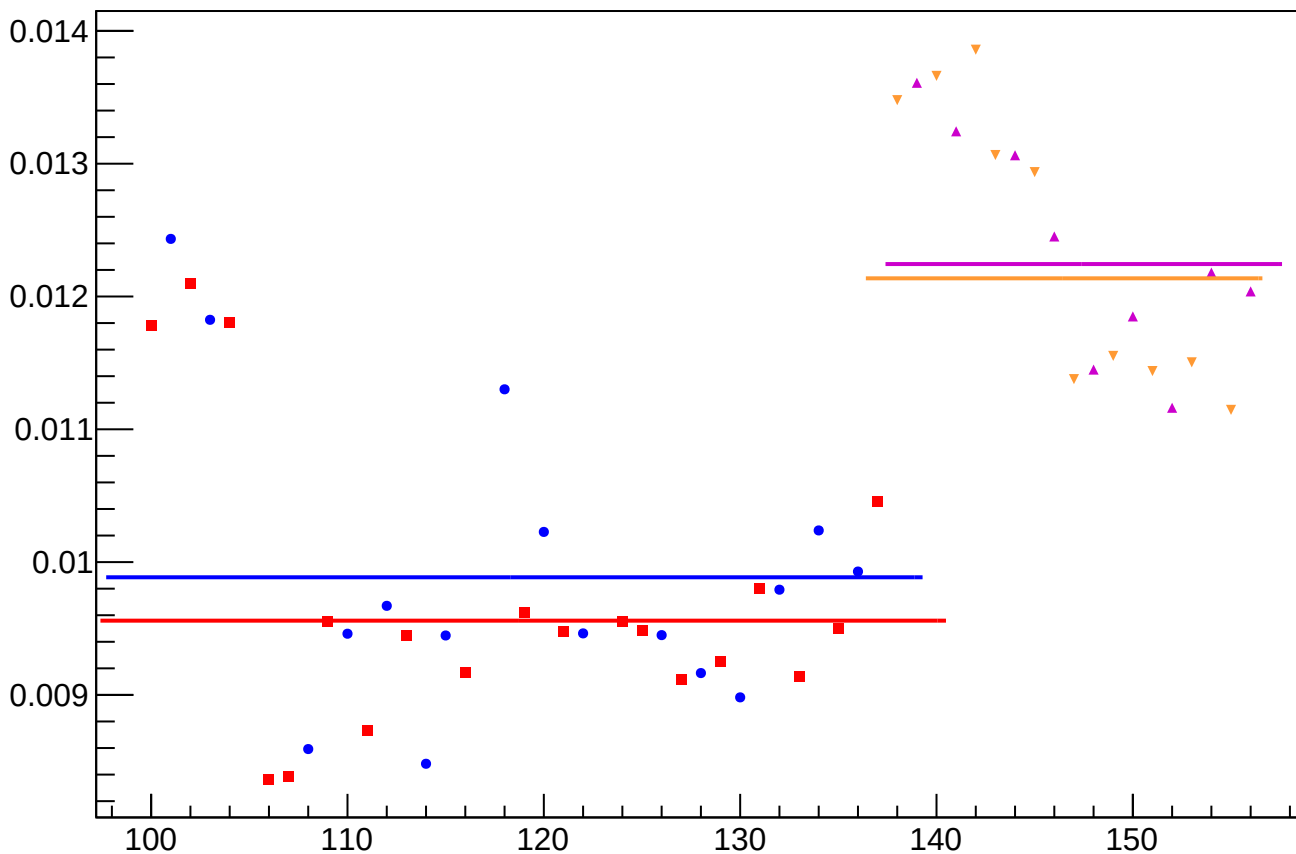
Right: 0.170+/-0.000 χ^2/NDF : 1298066263.7/34

In: 0.104+/-0.000 χ^2/NDF : 5131993164.8/24

Out: 0.090+/-0.000 χ^2/NDF : 8656123519.2/28

All: 0.096+/-0.000 χ^2/NDF : 13800127046.1/5

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 148562.0/15

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:93306.3/9

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 136197.0/18

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:57833.4/8

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 151709.1/18

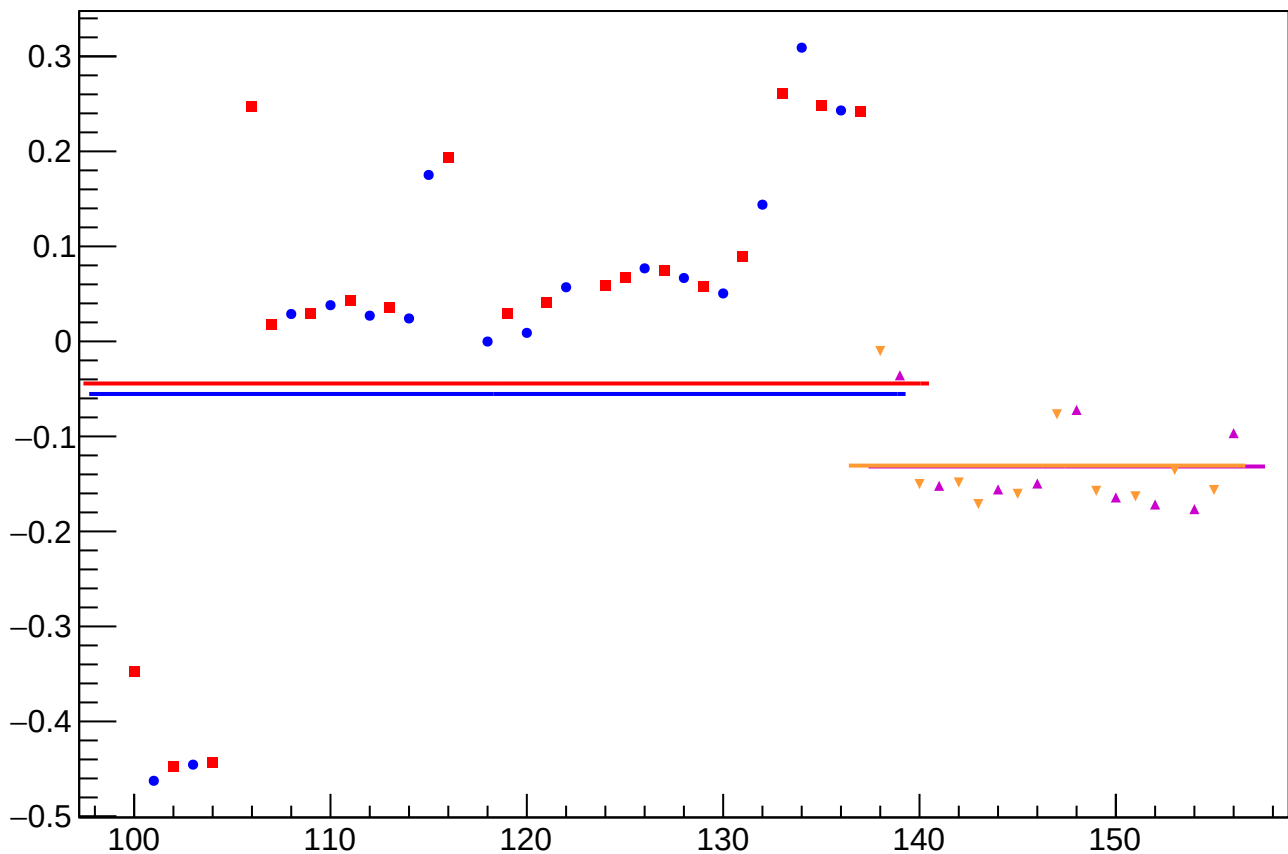
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 292678.0/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:526751.0/24

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:634588.5/28

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1172248.3/53

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.055+/-0.000 χ^2/NDF : 24081939190.6/15

Left Out: -0.131+/-0.000 χ^2/NDF : 2070686873.4/9

Right Out: -0.044+/-0.000 χ^2/NDF : 22136167141.7/18

Left In: -0.132+/-0.000 χ^2/NDF : 1863068278.2/8

Left: -0.131+/-0.000 χ^2/NDF : 3934118458.1/18

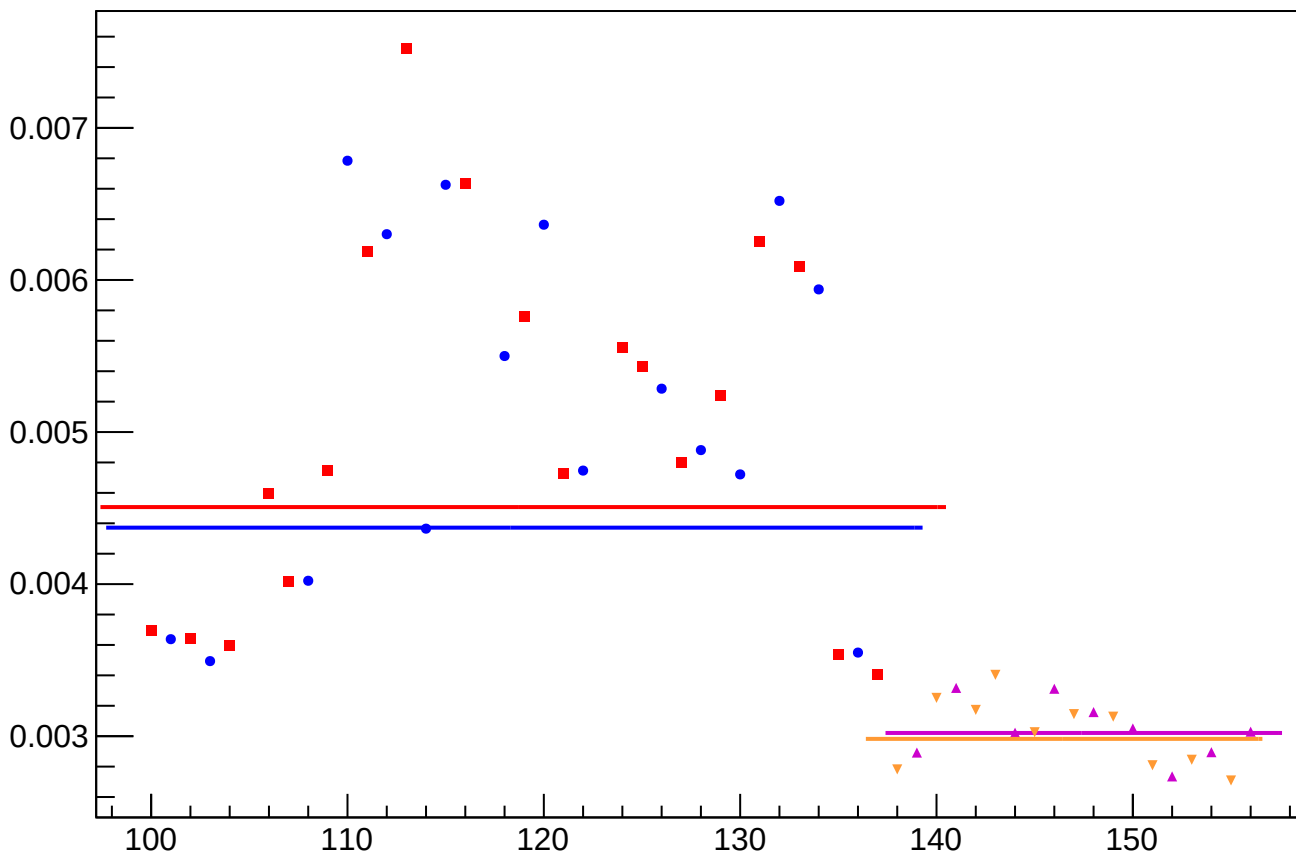
Right: -0.050+/-0.000 χ^2/NDF : 46237436160.9/34

In: -0.110+/-0.000 χ^2/NDF : 27275585905.8/24

Out: -0.107+/-0.000 χ^2/NDF : 25907260072.5/28

All: -0.108+/-0.000 χ^2/NDF : 53188335958.9/

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 : 77184.8/9

Right Out: 0.005+/-0.000 χ^2/NDF : 704549.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 52296.6/8

Left: 0.003+/-0.000 χ^2/NDF : 130713.4/18

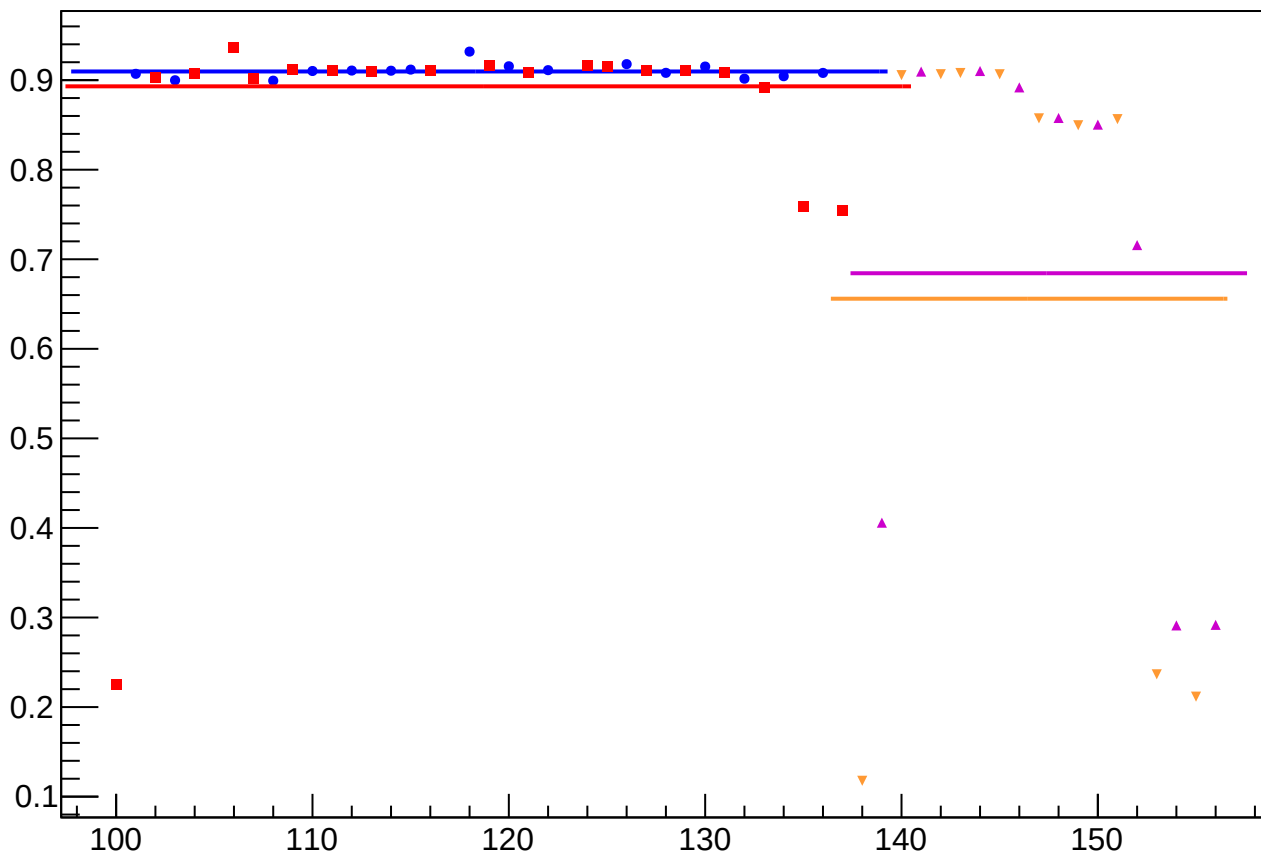
Right: 0.004+/-0.000 χ^2/NDF : 1370782.0/34

In: 0.003+/-0.000 χ^2/NDF : 1545394.0/24

Out: 0.003+/-0.000 χ^2/NDF : 1839661.0/28

All: 0.003+/-0.000 χ^2/NDF : 3385058.5/53

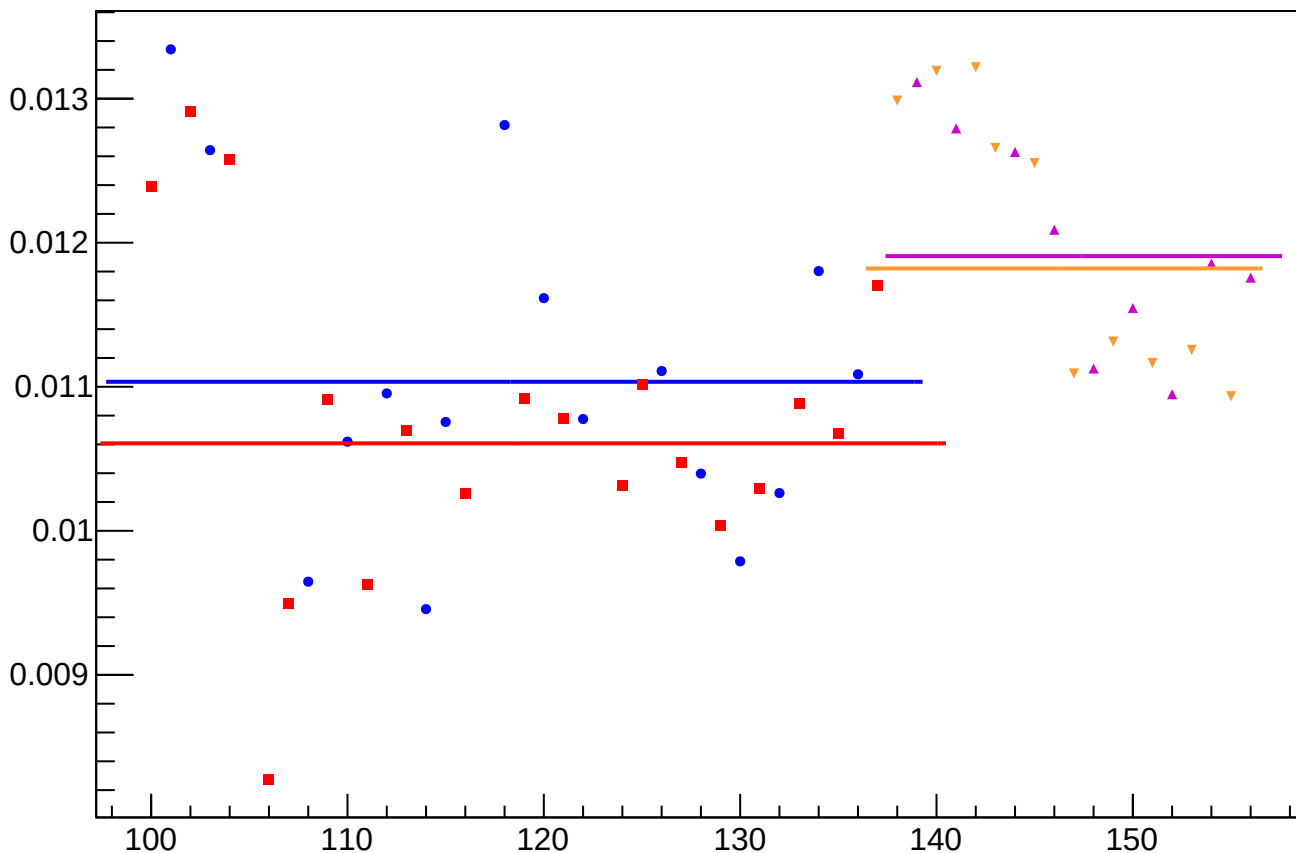
yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.910 $\pm$ 0.000 χ^2 /NDF: 3133349.6/15
 Left Out: 0.656 $\pm$ 0.000 χ^2 /NDF:5451021020.6/9
 Right Out: 0.893 $\pm$ 0.000 χ^2 /NDF: 327979021.4/18
 Left In: 0.684 $\pm$ 0.000 χ^2 /NDF:3313513318.5/8

Left: 0.670 $\pm$ 0.000 χ^2 /NDF: 8785745585.0/18
 Right: 0.901 $\pm$ 0.000 χ^2 /NDF: 339373965.5/34
 In: 0.802 $\pm$ 0.000 χ^2 /NDF:4690974757.9/24
 Out: 0.786 $\pm$ 0.000 χ^2 /NDF:7407170419.8/28
 All: 0.793 $\pm$ 0.000 χ^2 /NDF: 12111945386.5/5

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 130353.1/15

Left Out: 0.012+/-0.000 χ^2/NDF : 79359.6/9

Right Out: 0.011+/-0.000 χ^2/NDF : 143947.4/18

Left In: 0.012+/-0.000 χ^2/NDF : 50011.0/8

Left: 0.012+/-0.000 χ^2/NDF : 129753.5/18

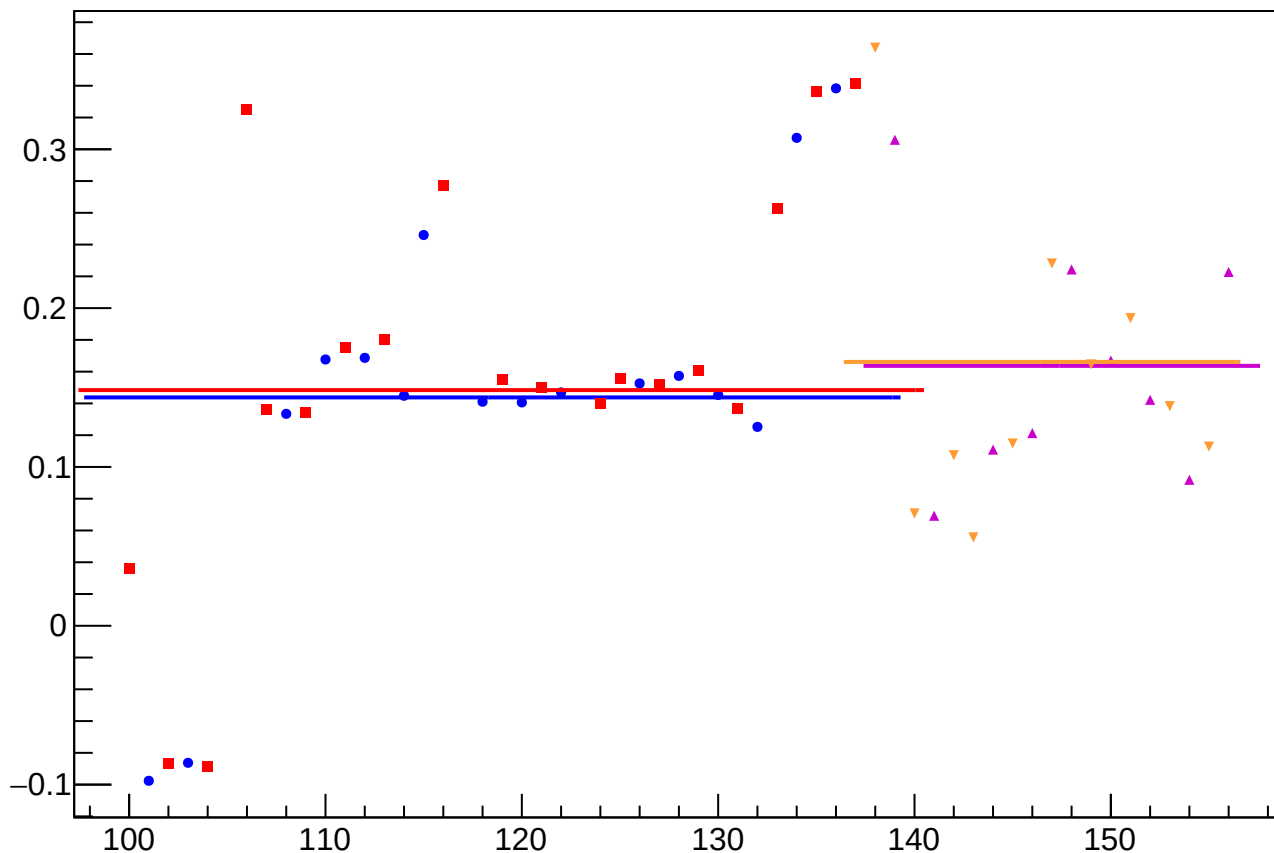
Right: 0.011+/-0.000 χ^2/NDF : 285253.7/34

In: 0.011+/-0.000 χ^2/NDF : 221571.3/24

Out: 0.011+/-0.000 χ^2/NDF : 308693.2/28

All: 0.011+/-0.000 χ^2/NDF : 540196.3/53

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.144+/-0.000 χ^2/NDF : 7867304536.4/15

Left Out: 0.166+/-0.000 χ^2/NDF : 4610447676.8/9

Right Out: 0.148+/-0.000 χ^2/NDF : 7128567107.5/18

Left In: 0.164+/-0.000 χ^2/NDF : 2930294028.2/8

Left: 0.165+/-0.000 χ^2/NDF : 7542572901.3/18

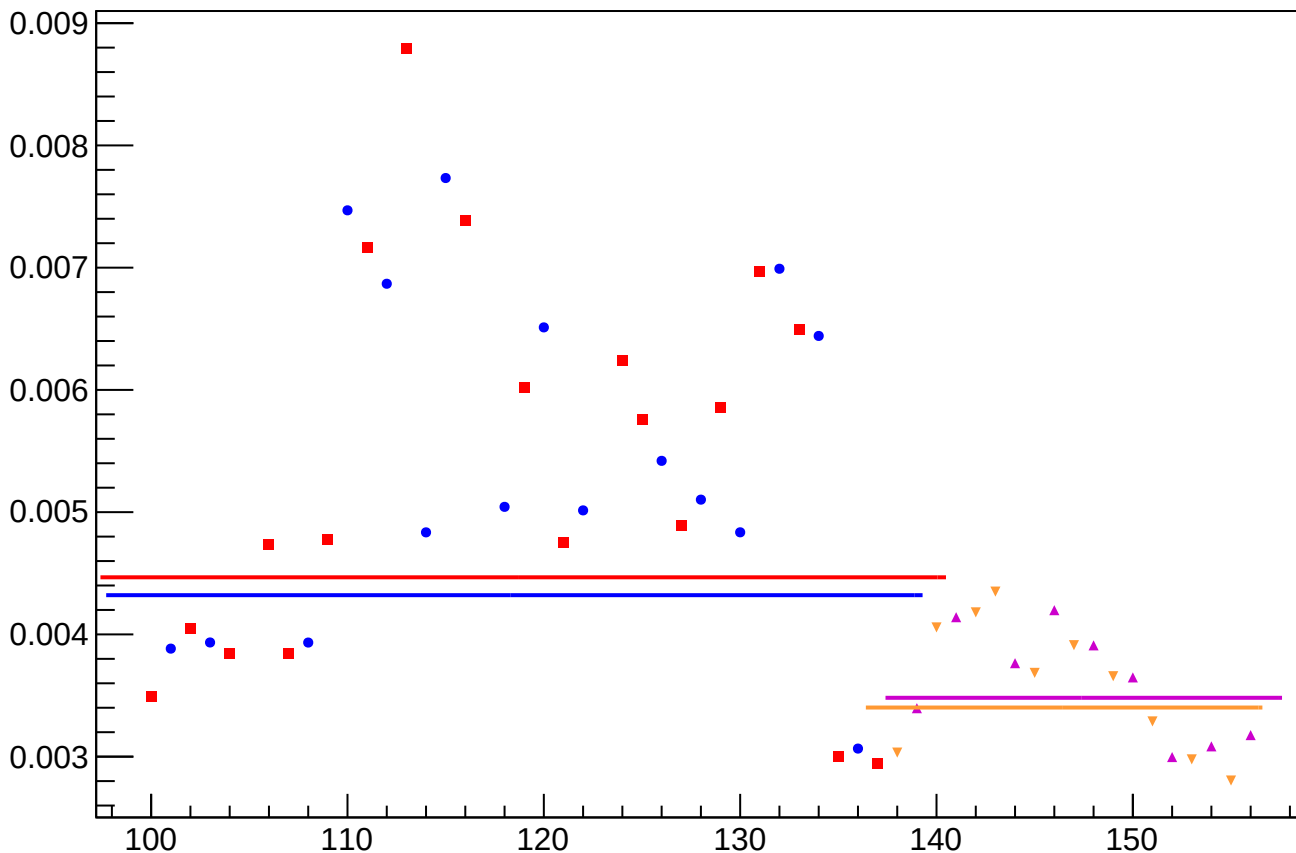
Right: 0.146+/-0.000 χ^2/NDF : 14999065697.1/34

In: 0.157+/-0.000 χ^2/NDF : 10876617566.6/24

Out: 0.160+/-0.000 χ^2/NDF : 11801780519.5/28

All: 0.159+/-0.000 χ^2/NDF : 22683890578.1/5

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 878343.4/15

Left Out: 0.003+/-0.000 χ^2/NDF :298402.1/9

Right Out: 0.004+/-0.000 χ^2/NDF : 1085759.3/18

Left In: 0.003+/-0.000 χ^2/NDF :198024.8/8

Left: 0.003+/-0.000 χ^2/NDF : 500161.6/18

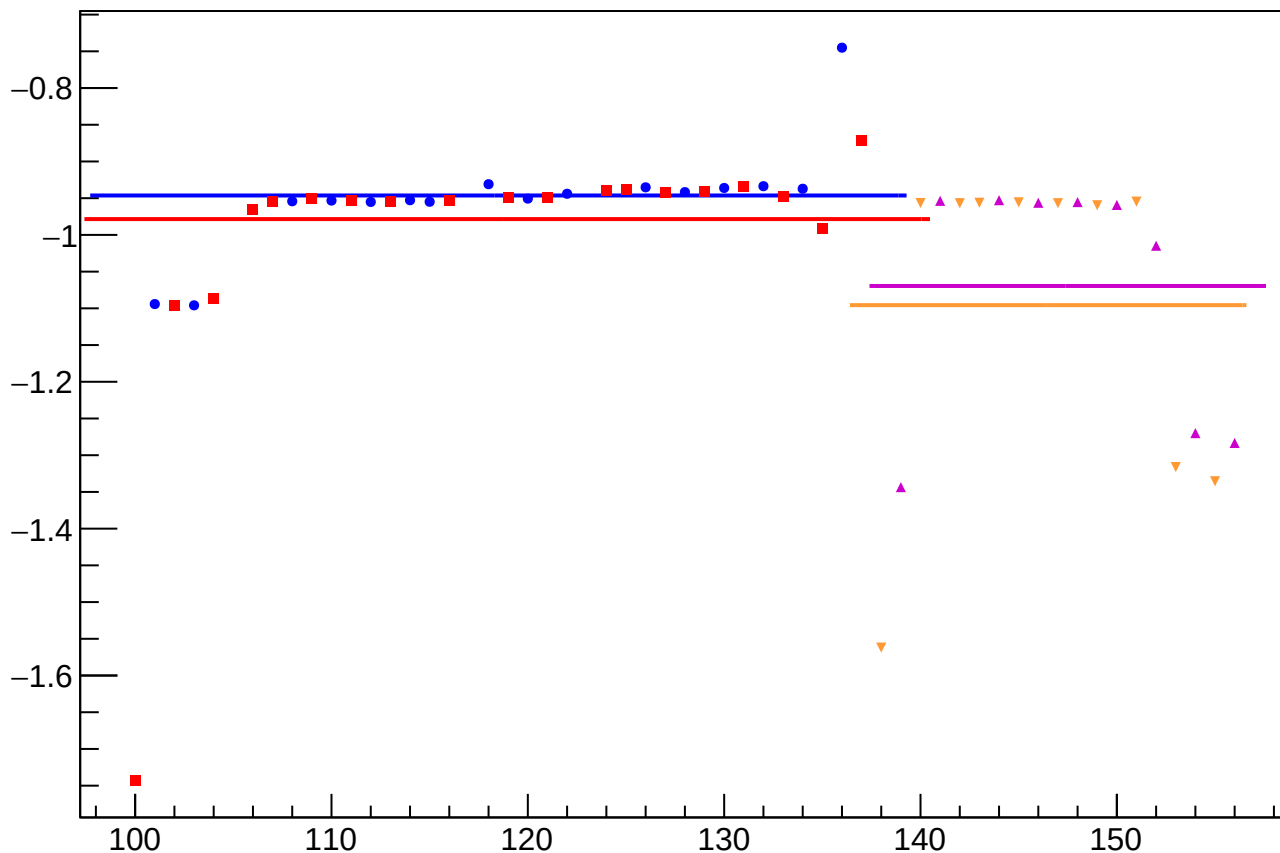
Right: 0.004+/-0.000 χ^2/NDF : 1970552.0/34

In: 0.004+/-0.000 χ^2/NDF :1358641.2/24

Out: 0.004+/-0.000 χ^2/NDF :1835893.5/28

All: 0.004+/-0.000 χ^2/NDF : 3194838.9/53

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -0.946 ± 0.000 $\chi^2/\text{NDF}: 404509465.5/15$

Left Out: -1.096 ± 0.000 $\chi^2/\text{NDF}: 2933379821.9/9$

Right Out: -0.978 ± 0.000 $\chi^2/\text{NDF}: 461081476.3/18$

Left In: -1.070 ± 0.000 $\chi^2/\text{NDF}: 1587901357.1/8$

Left: -1.083 ± 0.000 $\chi^2/\text{NDF}: 4544041920.6/18$

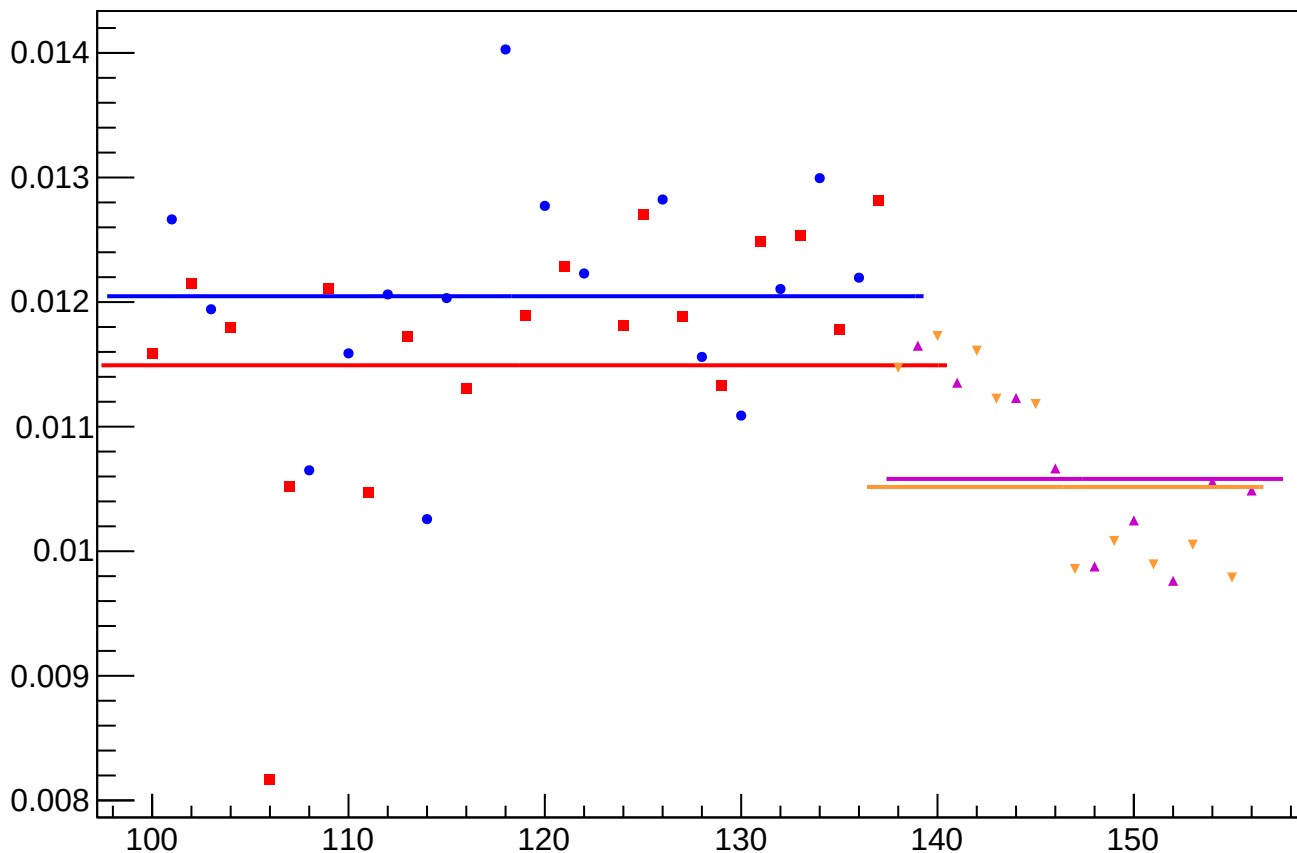
Right: -0.963 ± 0.000 $\chi^2/\text{NDF}: 891693396.9/34$

In: -1.018 ± 0.000 $\chi^2/\text{NDF}: 2412194933.5/24$

Out: -1.043 ± 0.000 $\chi^2/\text{NDF}: 3806587268.7/28$

All: -1.031 ± 0.000 $\chi^2/\text{NDF}: 6255633439.5/5$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 62476.3/15

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 74300.5/9

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 151309.4/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 49019.4/8

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 123595.5/18

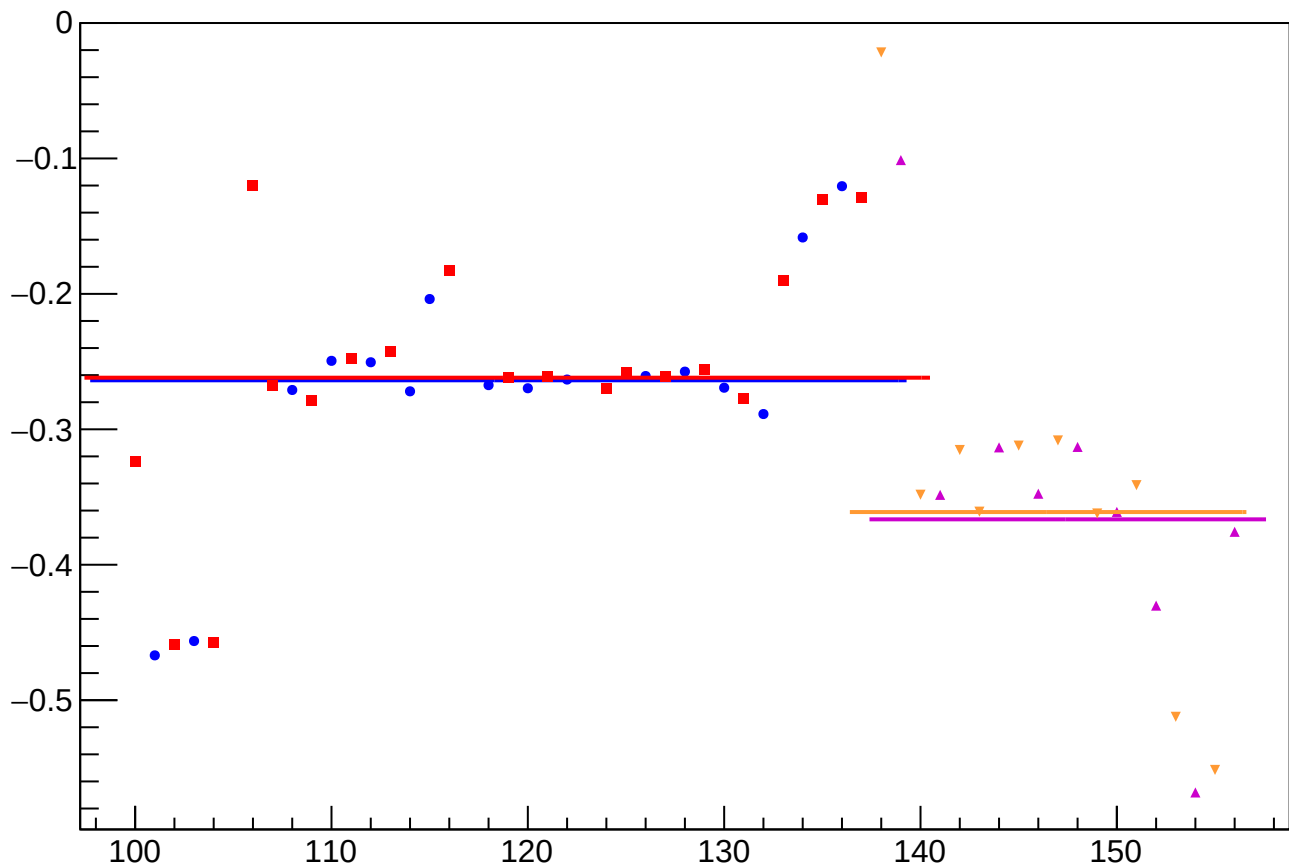
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 229327.8/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 230448.5/24

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 282839.9/28

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 519972.1/53

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.264+/-0.000 χ^2/NDF : 6106171444.3/15

Left Out: -0.361+/-0.000 χ^2/NDF : 10993337055.8/9

Right Out: -0.262+/-0.000 χ^2/NDF : 5250043427.3/18

Left In: -0.366+/-0.000 χ^2/NDF : 6755807836.2/8

Left: -0.364+/-0.000 χ^2/NDF : 17755825361.1/18

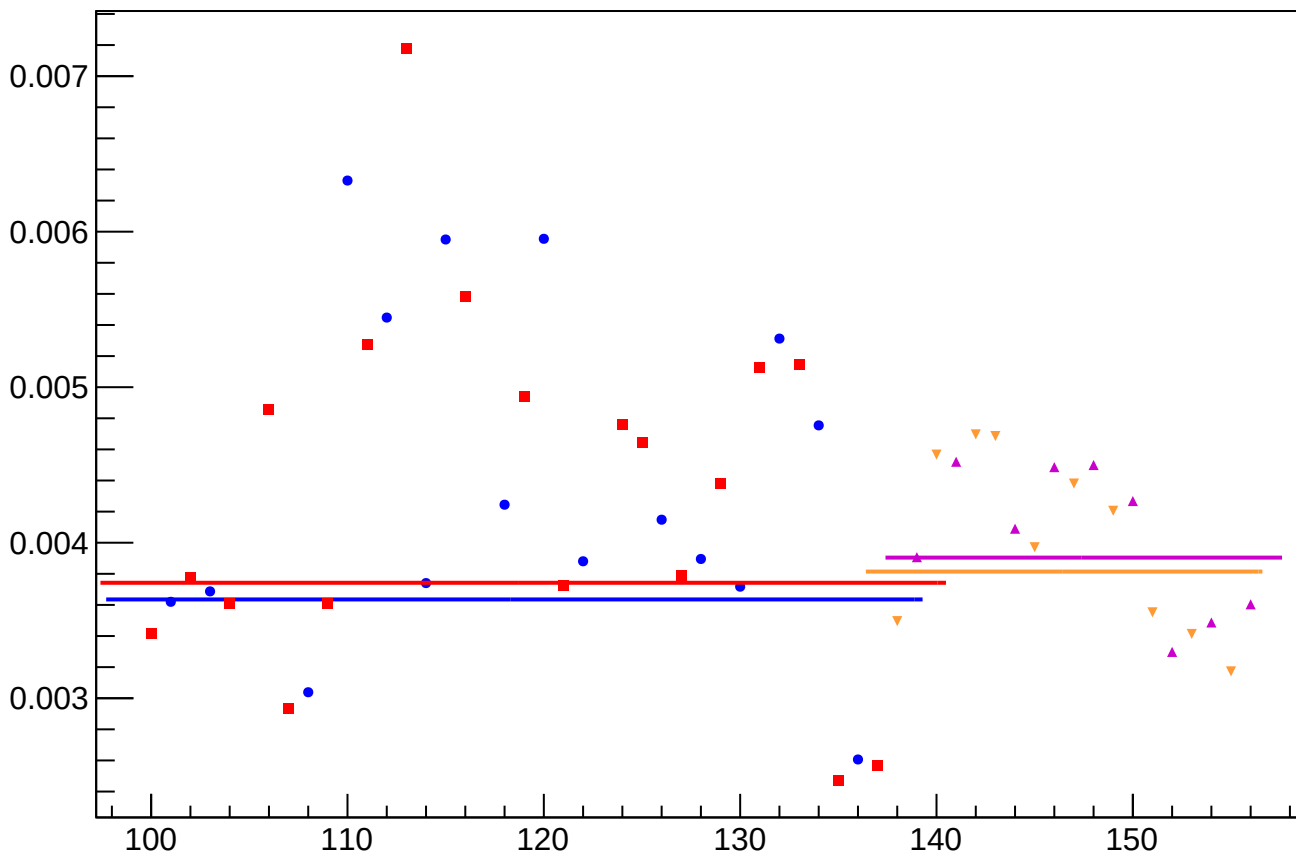
Right: -0.263+/-0.000 χ^2/NDF : 11357011784.3/34

In: -0.316+/-0.000 χ^2/NDF : 15194841613.4/24

Out: -0.314+/-0.000 χ^2/NDF : 18451713427.9/28

All: -0.315+/-0.000 χ^2/NDF : 33648661983.0/42

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 :256309.1/9

Right Out: 0.004+/-0.000 χ^2/NDF : 894189.4/18

Left In: 0.004+/-0.000 χ^2/NDF :180429.5/8

Left: 0.004+/-0.000 χ^2/NDF : 440439.4/18

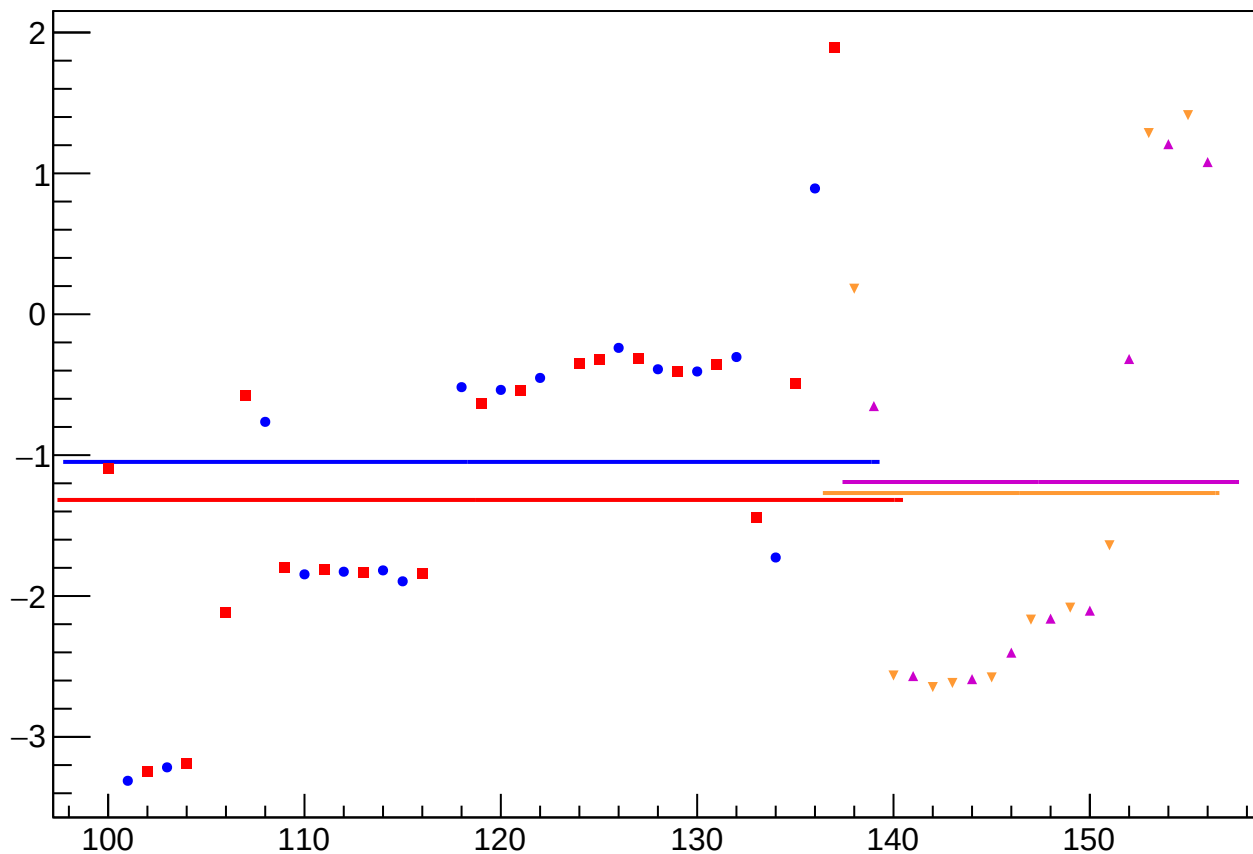
Right: 0.004+/-0.000 χ^2/NDF : 1627770.5/34

In: 0.004+/-0.000 χ^2/NDF :941053.4/24

Out: 0.004+/-0.000 χ^2/NDF :1152822.5/28

All: 0.004+/-0.000 χ^2/NDF : 2093939.8/53

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.048+/-0.000

χ^2/NDF : 2347020985.5/15

Left: -1.230+/-0.000

χ^2/NDF : 6187723179.4/18

Left Out: -1.269+/-0.000

χ^2/NDF : 3372834787.2/9

Right: -1.183+/-0.000

χ^2/NDF : 4244956360.2/34

Right Out: -1.318+/-0.000

χ^2/NDF : 1847995615.1/18

In: -1.119+/-0.000

χ^2/NDF : 5171546982.9/24

Out: -1.294+/-0.000

χ^2/NDF : 5222483979.0/28

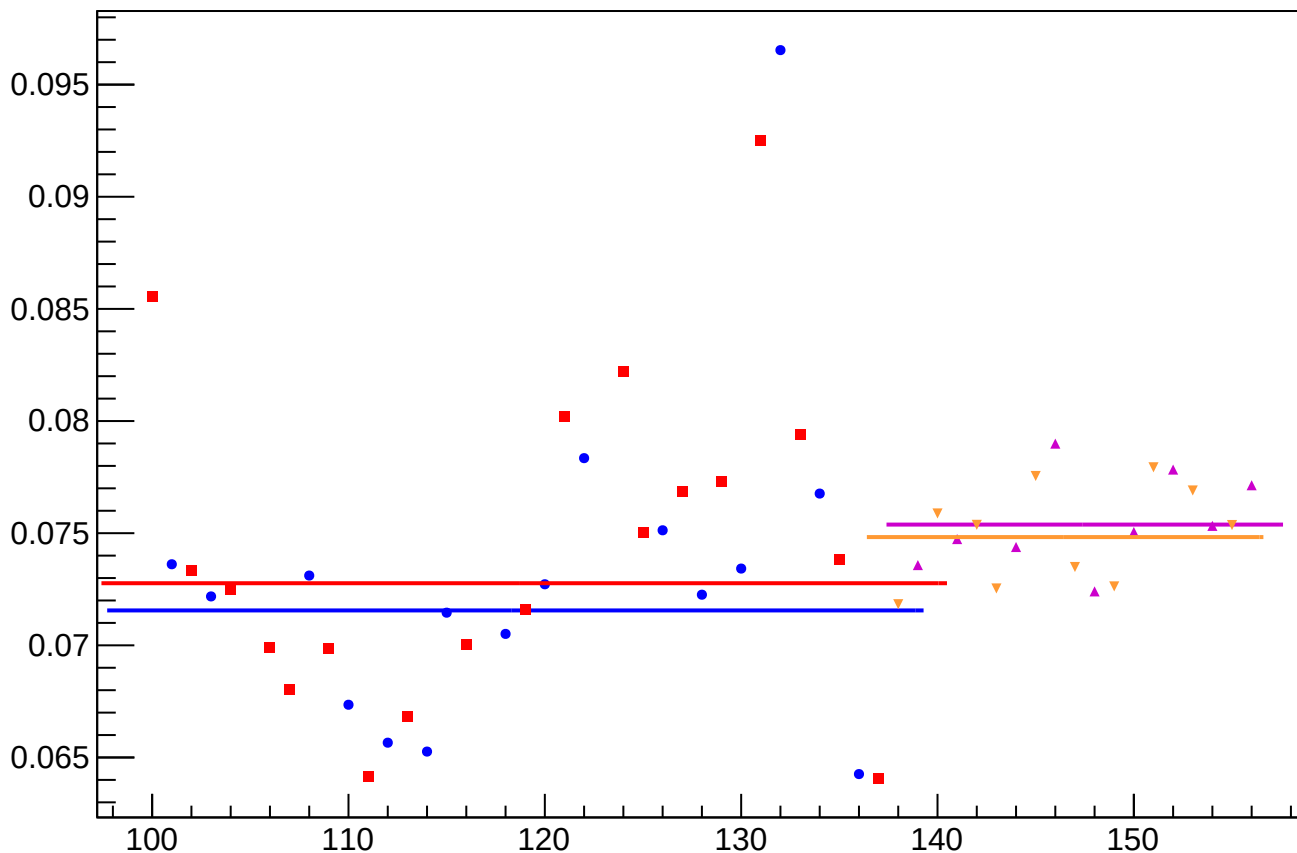
Left In: -1.191+/-0.000

χ^2/NDF : 2810748540.0/8

All: -1.207+/-0.000

χ^2/NDF : 10435693934.7/71

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 101238.7/15

Left Out: 0.075+/-0.000 χ^2/NDF :12512.5/9

Right Out: 0.073+/-0.000 χ^2/NDF : 96874.2/18

Left In: 0.075+/-0.000 χ^2/NDF :10213.1/8

Left: 0.075+/-0.000 χ^2/NDF : 23146.0/18

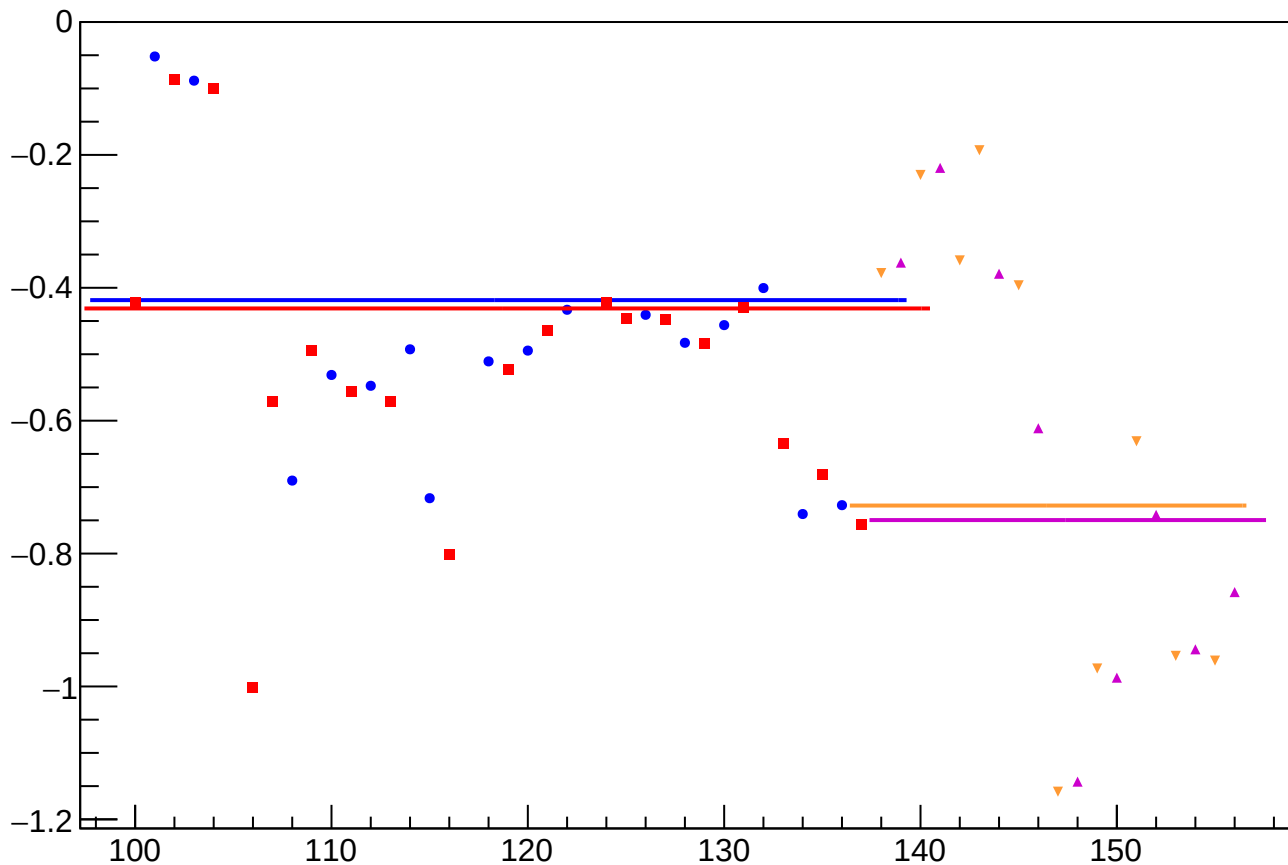
Right: 0.072+/-0.000 χ^2/NDF : 200129.9/34

In: 0.073+/-0.000 χ^2/NDF :131291.1/24

Out: 0.074+/-0.000 χ^2/NDF :115182.6/28

All: 0.074+/-0.000 χ^2/NDF : 246802.5/53

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.419 $\pm$ 0.000 χ^2/NDF : 3072147227.9/15

Left Out: -0.728 $\pm$ 0.000 χ^2/NDF : 12726003761.2/9

Right Out: -0.431 $\pm$ 0.000 χ^2/NDF : 3196655095.4/18

Left In: -0.750 $\pm$ 0.000 χ^2/NDF : 9775798911.9/8

Left: -0.739 $\pm$ 0.000 χ^2/NDF : 22532682352.7/18

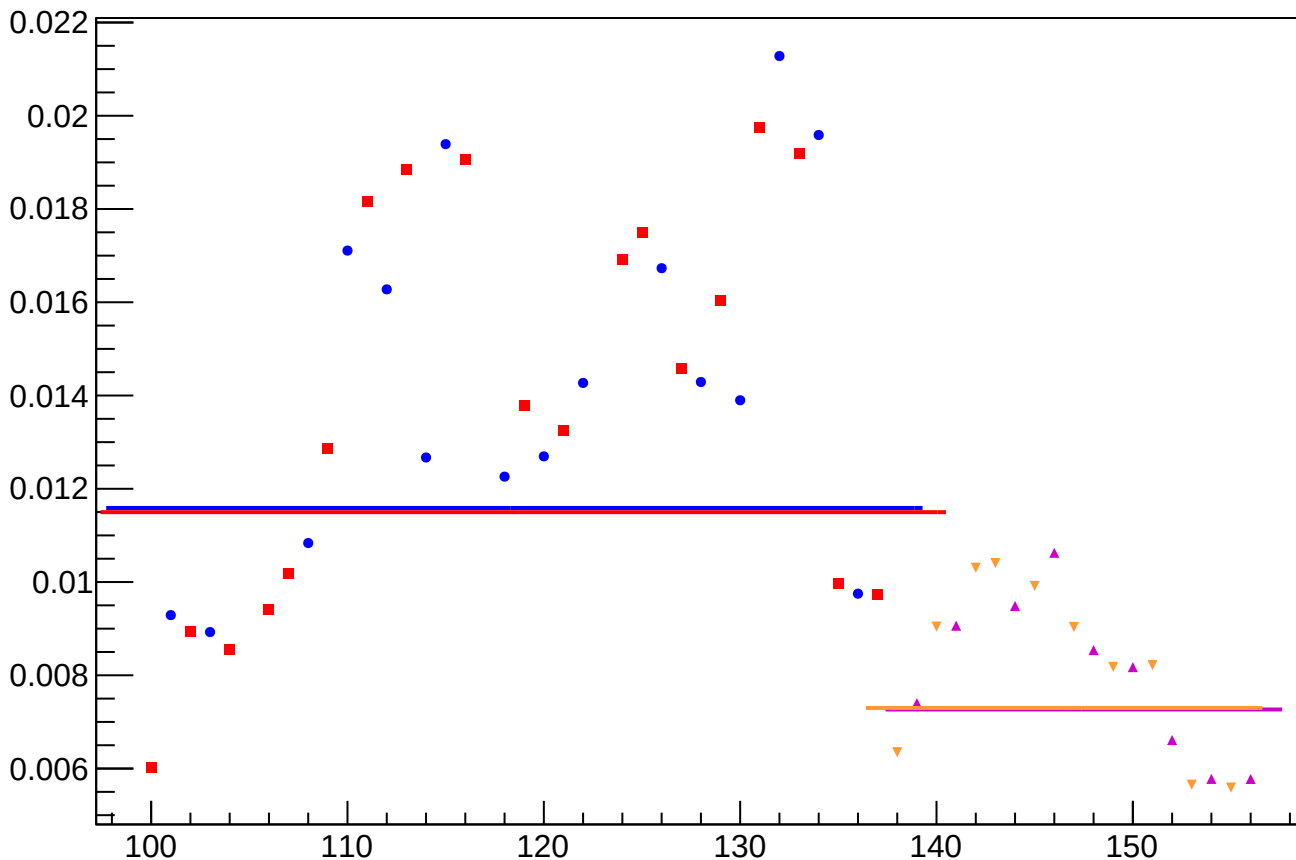
Right: -0.425 $\pm$ 0.000 χ^2/NDF : 6272338159.2/34

In: -0.666 $\pm$ 0.000 χ^2/NDF : 16478469838.2/24

Out: -0.650 $\pm$ 0.000 χ^2/NDF : 18872247362.0/28

All: -0.658 $\pm$ 0.000 χ^2/NDF : 35372118152.1/70

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 786260.7/15

Left Out: 0.007 $\pm$ 0.000 χ^2/NDF : 762879.5/9

Right Out: 0.011 $\pm$ 0.000 χ^2/NDF : 1164657.0/18

Left In: 0.007 $\pm$ 0.000 χ^2/NDF : 590729.4/8

Left: 0.007 $\pm$ 0.000 χ^2/NDF : 1353748.8/18

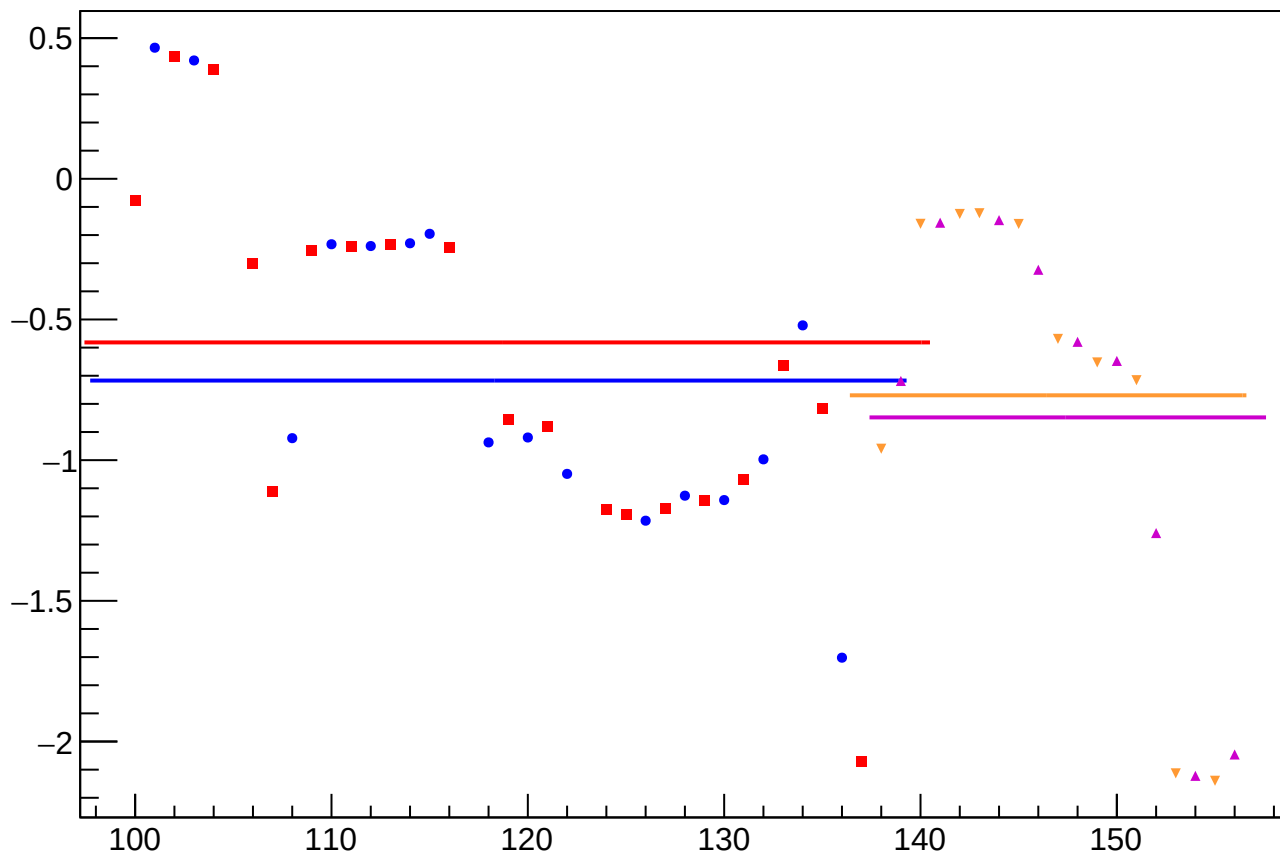
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 1951282.6/34

In: 0.008 $\pm$ 0.000 χ^2/NDF : 2614669.4/24

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 3109616.2/28

All: 0.008 $\pm$ 0.000 χ^2/NDF : 5724533.1/53

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.717 ± 0.000 $\chi^2/\text{NDF}: 437423792.4/15$

Left Out: -0.770 ± 0.000 $\chi^2/\text{NDF}: 554859957.8/9$

Right Out: -0.582 ± 0.000 $\chi^2/\text{NDF}: 342062039.8/18$

Left In: -0.848 ± 0.000 $\chi^2/\text{NDF}: 521975238.6/8$

Left: -0.808 ± 0.000 $\chi^2/\text{NDF}: 1080128062.6/18$

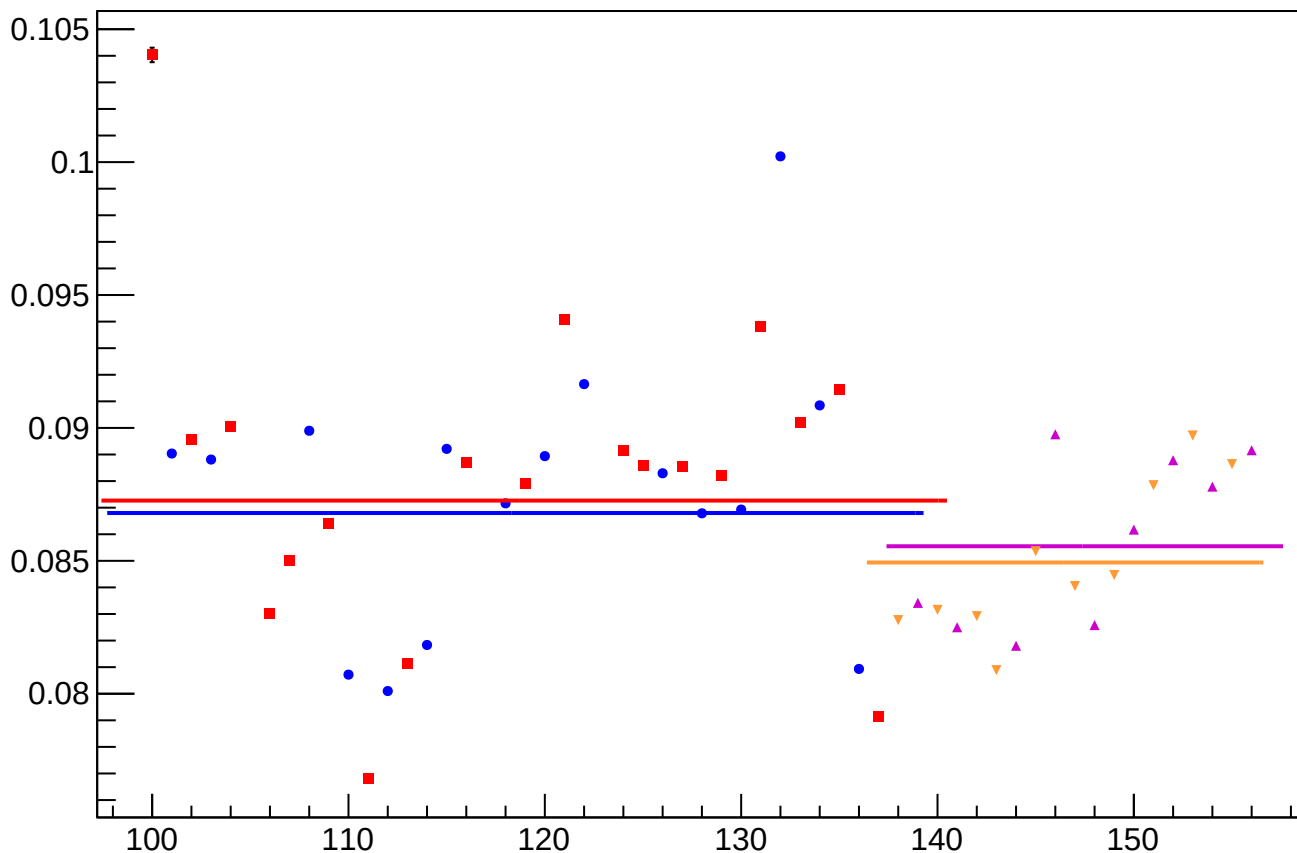
Right: -0.648 ± 0.000 $\chi^2/\text{NDF}: 788347373.4/34$

In: -0.786 ± 0.000 $\chi^2/\text{NDF}: 967992079.9/24$

Out: -0.680 ± 0.000 $\chi^2/\text{NDF}: 915046014.8/28$

All: -0.732 ± 0.000 $\chi^2/\text{NDF}: 1894426344.8/5$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 43575.8/15

Left Out: 0.085 $\pm$ 0.000 χ^2 /NDF:16007.0/9

Right Out: 0.087 $\pm$ 0.000 χ^2 /NDF: 46163.9/18

Left In: 0.086 $\pm$ 0.000 χ^2 /NDF:19392.8/8

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 35798.0/18

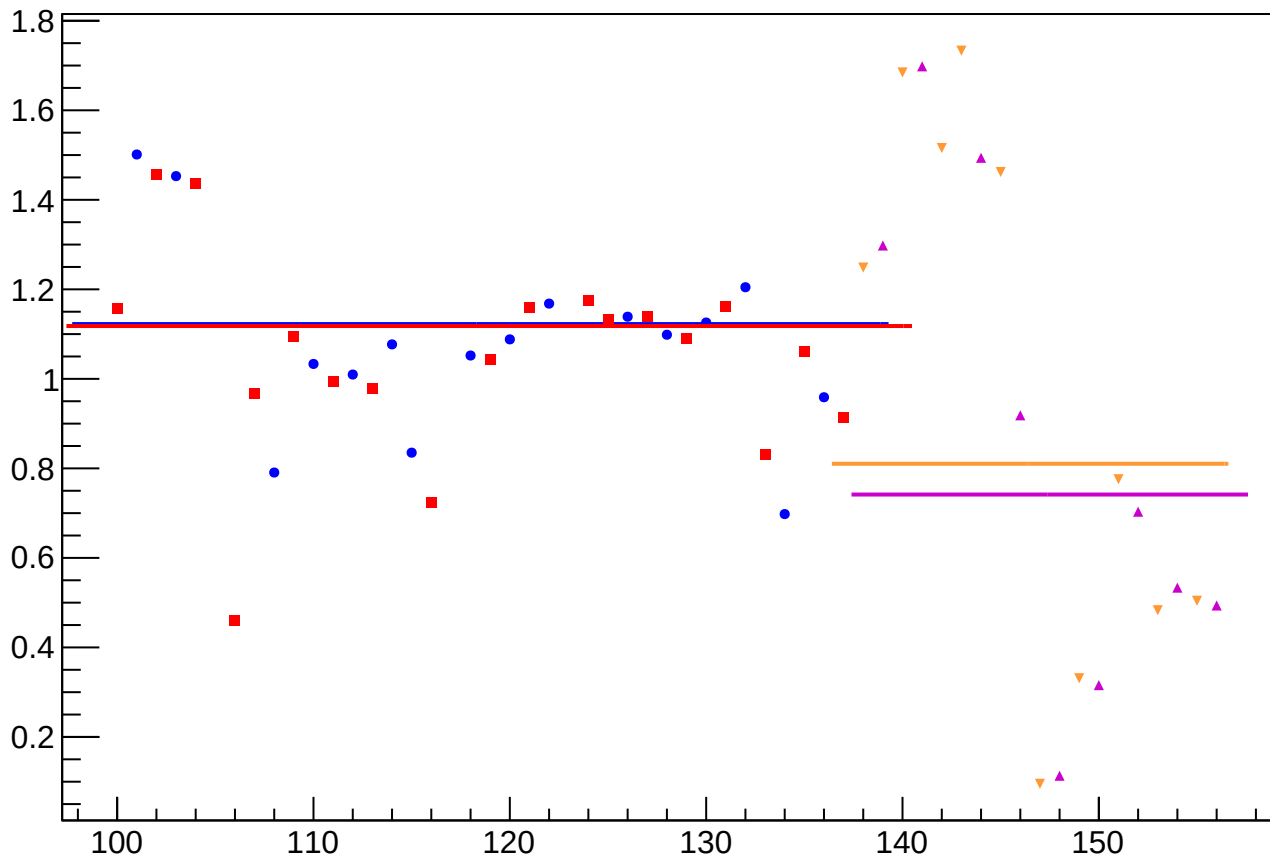
Right: 0.087 $\pm$ 0.000 χ^2 /NDF: 89950.5/34

In: 0.086 $\pm$ 0.000 χ^2 /NDF:64536.6/24

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:67733.7/28

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 132289.0/53

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.122 $\pm$ 0.000 χ^2/NDF : 1454303379.1/15

Left Out: 0.810 $\pm$ 0.000 χ^2/NDF : 23425907594.8/9

Right Out: 1.118 $\pm$ 0.000 χ^2/NDF : 1570269350.9/18

Left In: 0.742 $\pm$ 0.000 χ^2/NDF : 19265455062.2/8

Left: 0.775 $\pm$ 0.000 χ^2/NDF : 42907148526.2/18

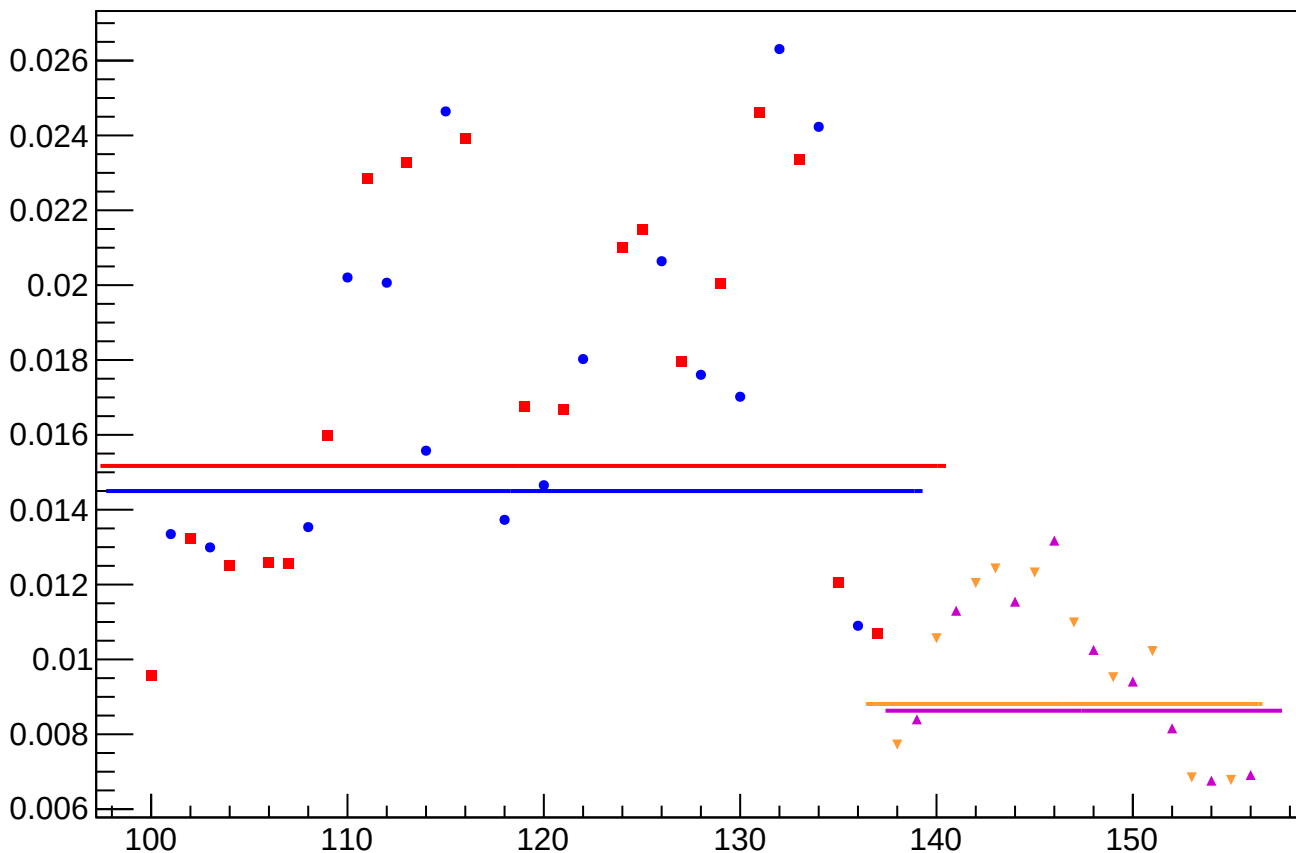
Right: 1.120 $\pm$ 0.000 χ^2/NDF : 3024831149.0/34

In: 0.830 $\pm$ 0.000 χ^2/NDF : 23877078372.6/24

Out: 0.881 $\pm$ 0.000 χ^2/NDF : 26939472730.2/28

All: 0.855 $\pm$ 0.000 χ^2/NDF : 50968744881.4/5

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 : 745610.3/9

Right Out: 0.015+/-0.000 χ^2/NDF : 864637.6/18

Left In: 0.009+/-0.000 χ^2/NDF : 659224.3/8

Left: 0.009+/-0.000 χ^2/NDF : 1407791.0/18

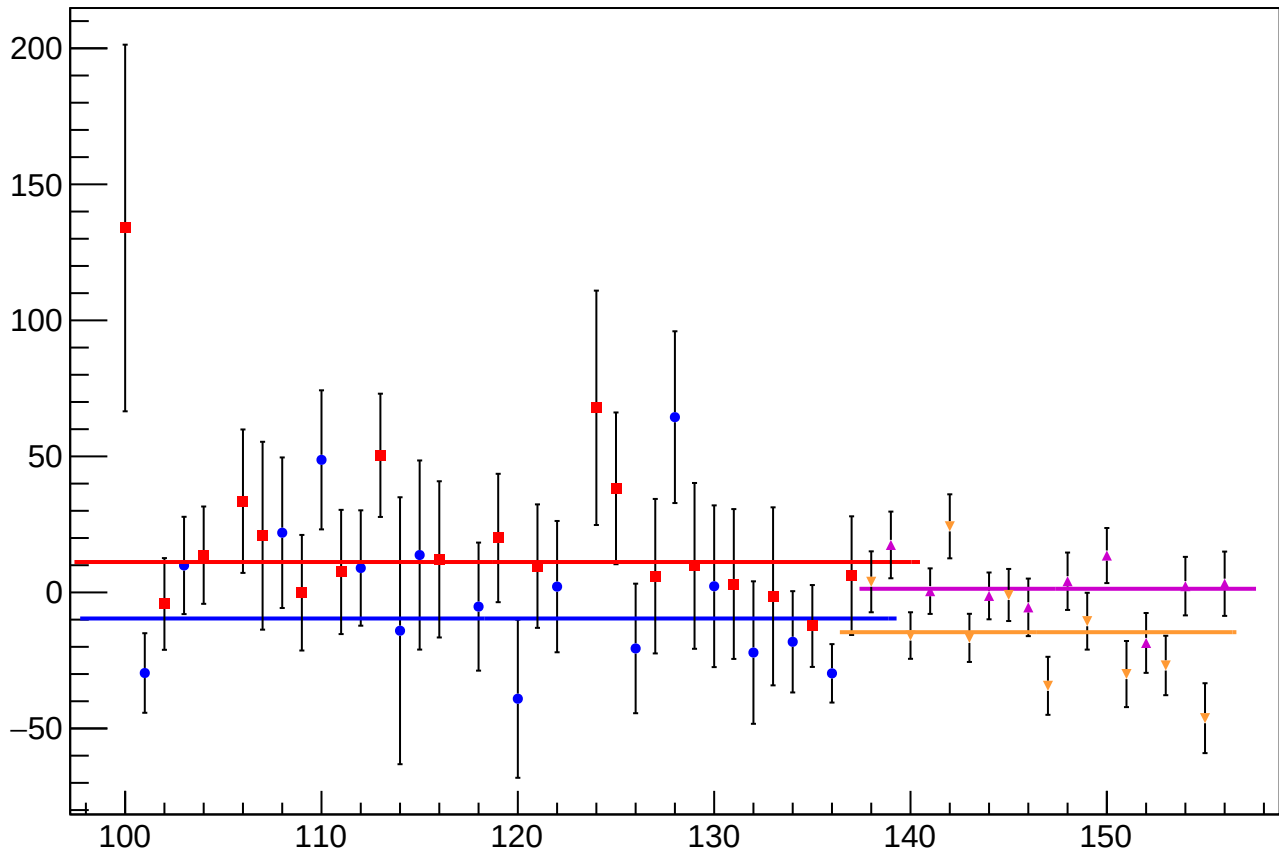
Right: 0.015+/-0.000 χ^2/NDF : 1587355.3/34

In: 0.010+/-0.000 χ^2/NDF : 2869482.8/24

Out: 0.010+/-0.000 χ^2/NDF : 3270718.2/28

All: 0.010+/-0.000 χ^2/NDF : 6149006.2/53

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.581 ± 5.291 χ^2/NDF : 21.9/15

Left Out: -14.617 ± 3.302 χ^2/NDF : 28.3/9

Right Out: 11.177 ± 5.497 χ^2/NDF : 13.9/18

Left In: 1.337 ± 3.406 χ^2/NDF : 7.1/8

Left: -6.886 ± 2.371 χ^2/NDF : 46.7/18

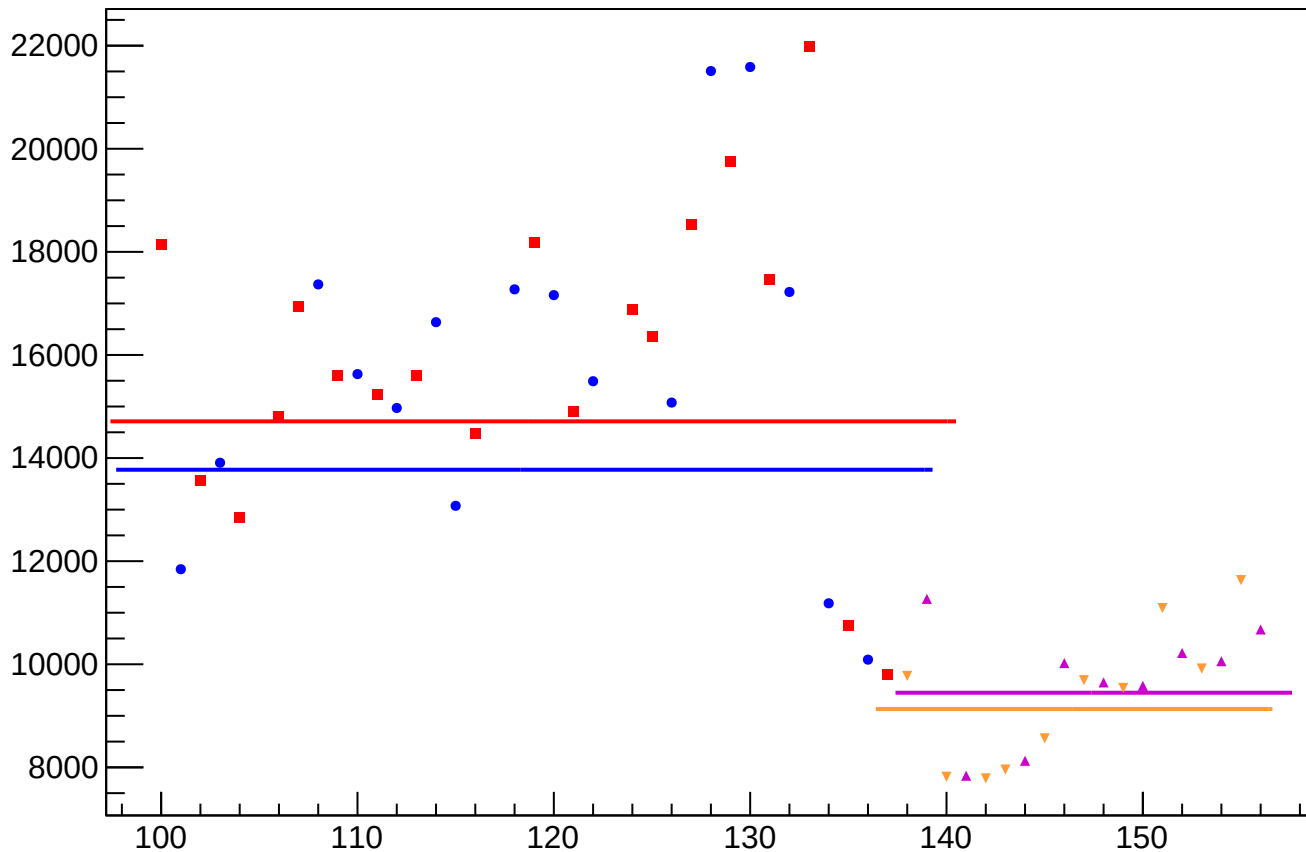
Right: 0.401 ± 3.812 χ^2/NDF : 43.2/34

In: -1.862 ± 2.864 χ^2/NDF : 32.0/24

Out: -7.777 ± 2.831 χ^2/NDF : 58.3/28

All: -4.854 ± 2.013 χ^2/NDF : 92.5/53

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 13773.886 $\pm$ 3.741 χ^2/NDF : 747586.2/15

Left Out: 9131.280 $\pm$ 2.335 χ^2/NDF : 268767.4/9

Right Out: 14712.201 $\pm$ 3.887 χ^2/NDF : 557305.5/18

Left In: 9448.140 $\pm$ 2.408 χ^2/NDF : 210079.6/8

Left: 9284.813 $\pm$ 1.676 χ^2/NDF : 487769.6/18

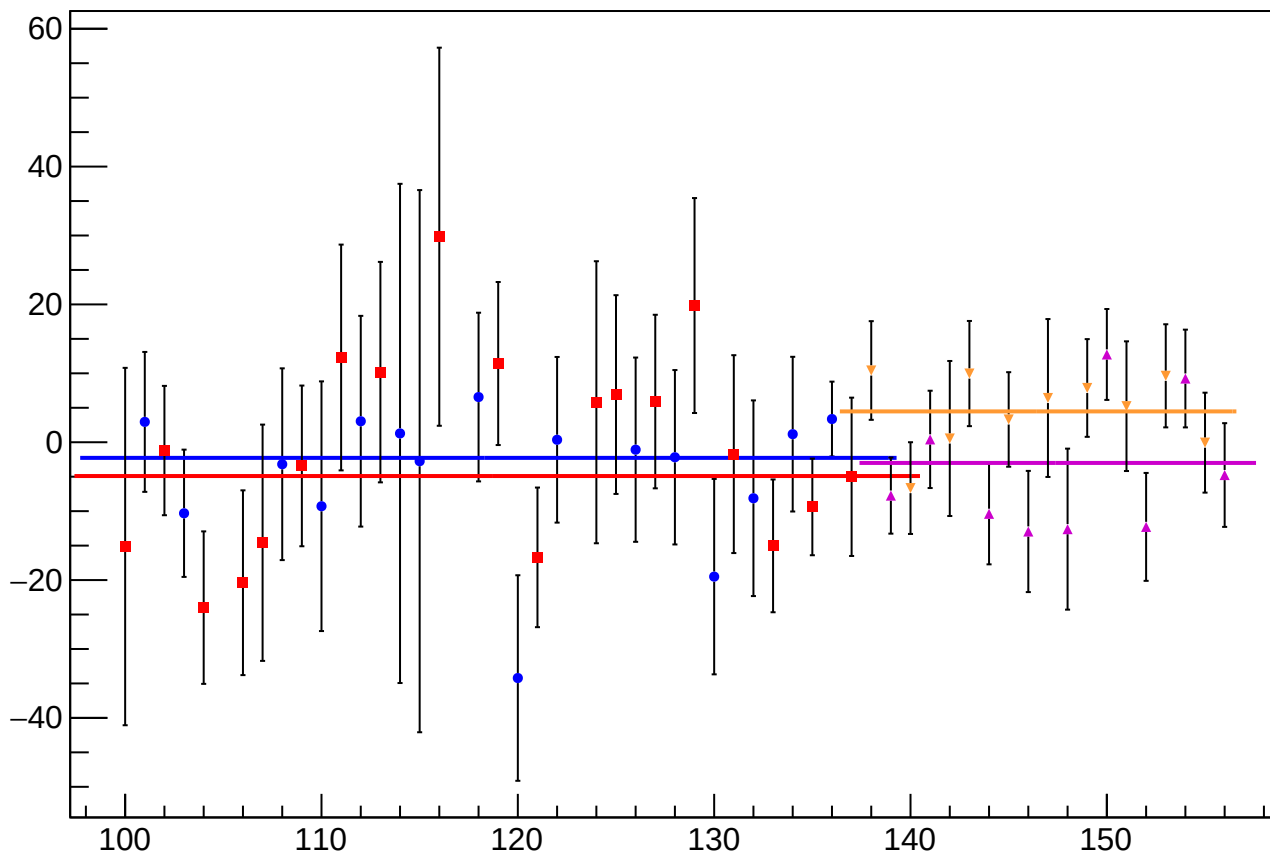
Right: 14225.090 $\pm$ 2.695 χ^2/NDF : 1335141.9/34

In: 10715.573 $\pm$ 2.025 χ^2/NDF : 1902921.0/24

Out: 10611.166 $\pm$ 2.002 χ^2/NDF : 2340860.4/28

All: 10662.763 $\pm$ 1.424 χ^2/NDF : 4245125.9/5

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -2.267 ± 2.922 χ^2/NDF : 9.3/15

Left Out: 4.475 ± 2.469 χ^2/NDF : 5.3/9

Right Out: -4.904 ± 2.836 χ^2/NDF : 17.6/18

Left In: -3.003 ± 2.436 χ^2/NDF : 14.1/8

Left: 0.686 ± 1.734 χ^2/NDF : 24.0/18

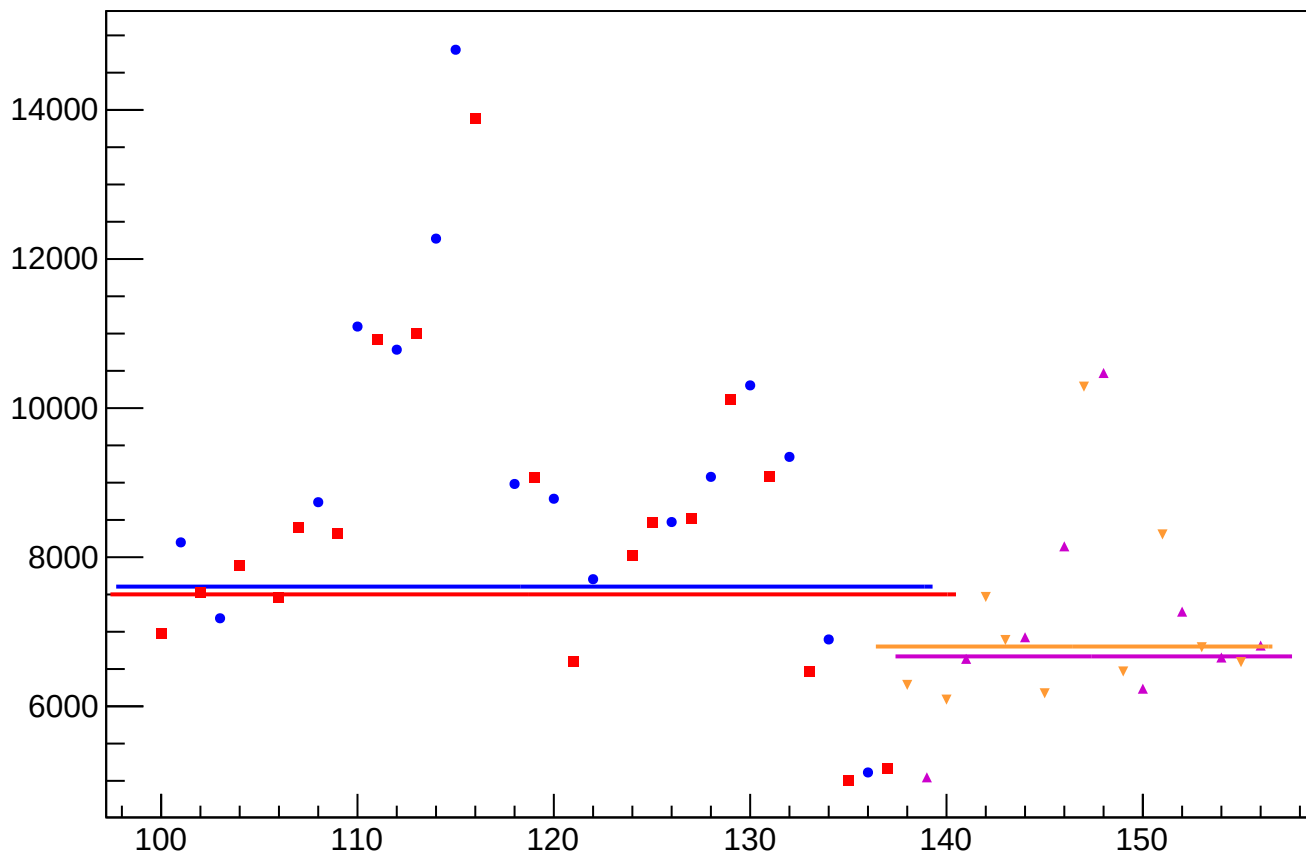
Right: -3.625 ± 2.035 χ^2/NDF : 27.3/34

In: -2.701 ± 1.871 χ^2/NDF : 23.4/24

Out: 0.432 ± 1.862 χ^2/NDF : 29.1/28

All: -1.127 ± 1.320 χ^2/NDF : 53.9/53

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7605.700+/-2.066 χ^2/NDF : 891494.3/15

Left Out: 6801.906+/-1.746 χ^2/NDF : 299623.6/9

Right Out: 7501.522+/-2.005 χ^2/NDF : 823557.5/18

Left In: 6669.421+/-1.722 χ^2/NDF : 464460.5/8

Left: 6734.781+/-1.226 χ^2/NDF : 767002.9/18

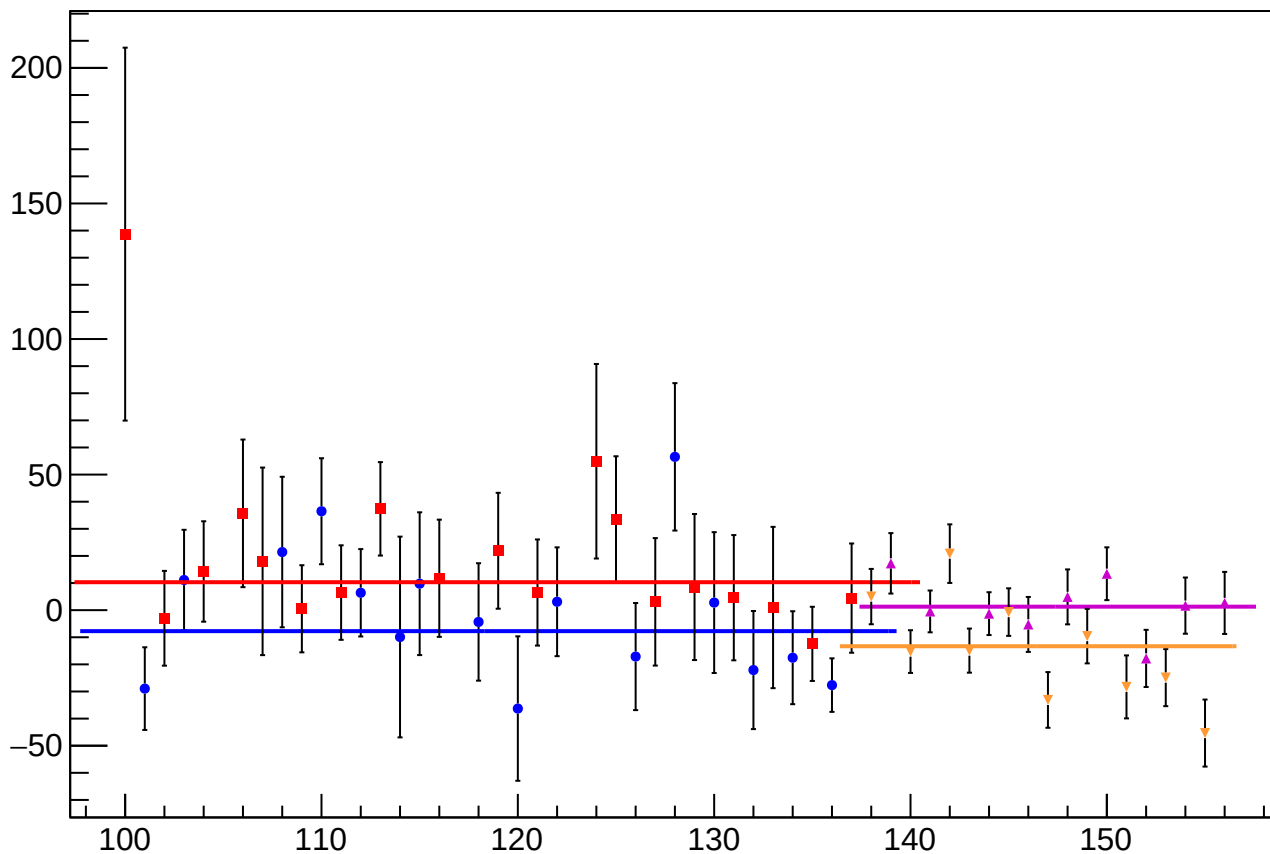
Right: 7552.053+/-1.439 χ^2/NDF : 1716360.9/34

In: 7053.290+/-1.323 χ^2/NDF : 1477104.9/24

Out: 7103.486+/-1.317 χ^2/NDF : 1192431.1/28

All: 7078.510+/-0.933 χ^2/NDF : 2670259.3/53

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.741 ± 4.748 $\chi^2/\text{NDF}: 22.7/15$

Left Out: -13.312 ± 3.089 $\chi^2/\text{NDF}: 28.8/9$

Right Out: 10.307 ± 4.840 $\chi^2/\text{NDF}: 13.9/18$

Left In: 1.284 ± 3.213 $\chi^2/\text{NDF}: 7.6/8$

Left: -6.300 ± 2.227 $\chi^2/\text{NDF}: 47.2/18$

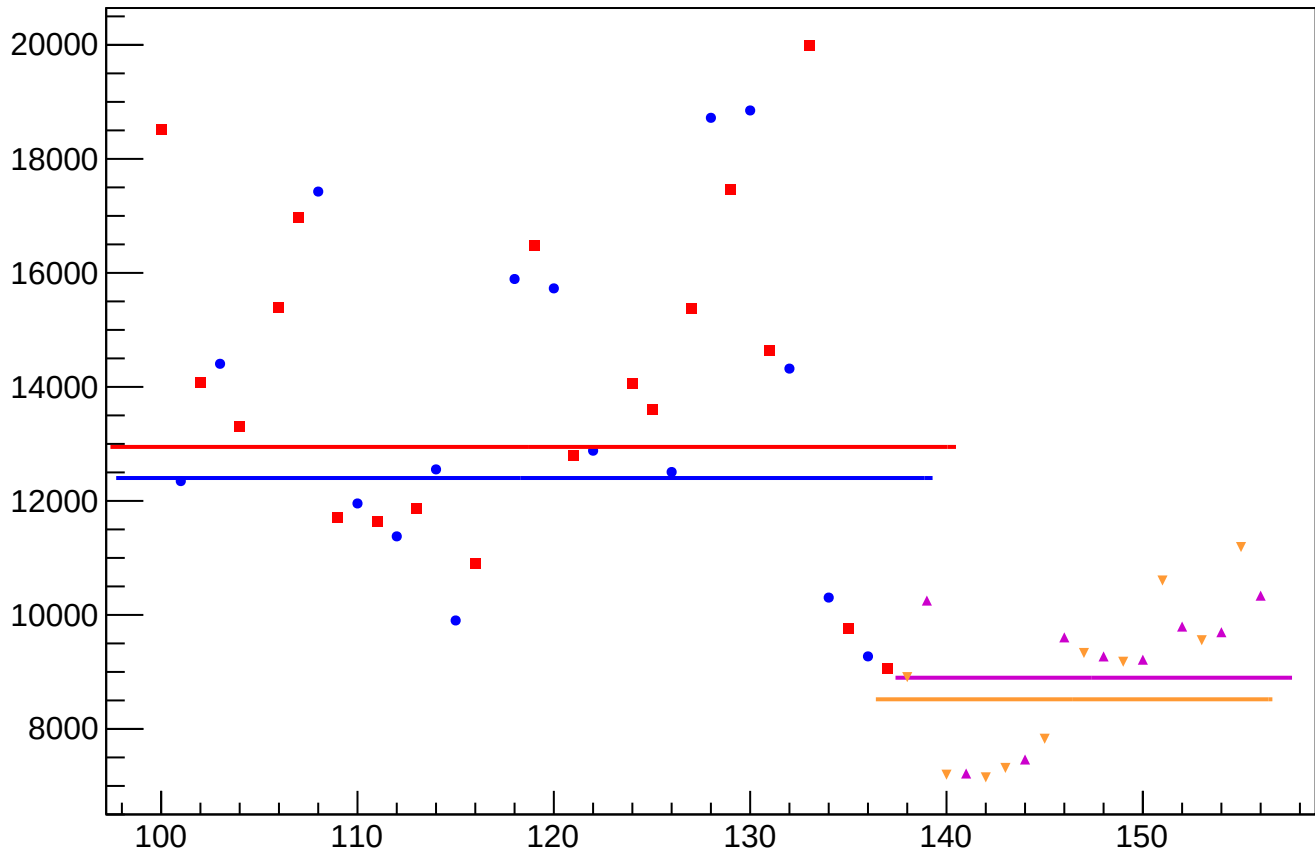
Right: 1.111 ± 3.389 $\chi^2/\text{NDF}: 43.7/34$

In: -1.551 ± 2.661 $\chi^2/\text{NDF}: 32.8/24$

Out: -6.474 ± 2.604 $\chi^2/\text{NDF}: 59.7/28$

All: -4.065 ± 1.861 $\chi^2/\text{NDF}: 94.2/53$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12401.769 $\pm$ 3.357 χ^2 /NDF: 678310.8/15

Left Out: 8519.805 $\pm$ 2.185 χ^2 /NDF:345912.4/9

Right Out: 12947.255 $\pm$ 3.422 χ^2 /NDF: 555198.3/18

Left In: 8898.347 $\pm$ 2.272 χ^2 /NDF:263082.1/8

Left: 8701.659 $\pm$ 1.575 χ^2 /NDF: 623419.3/18

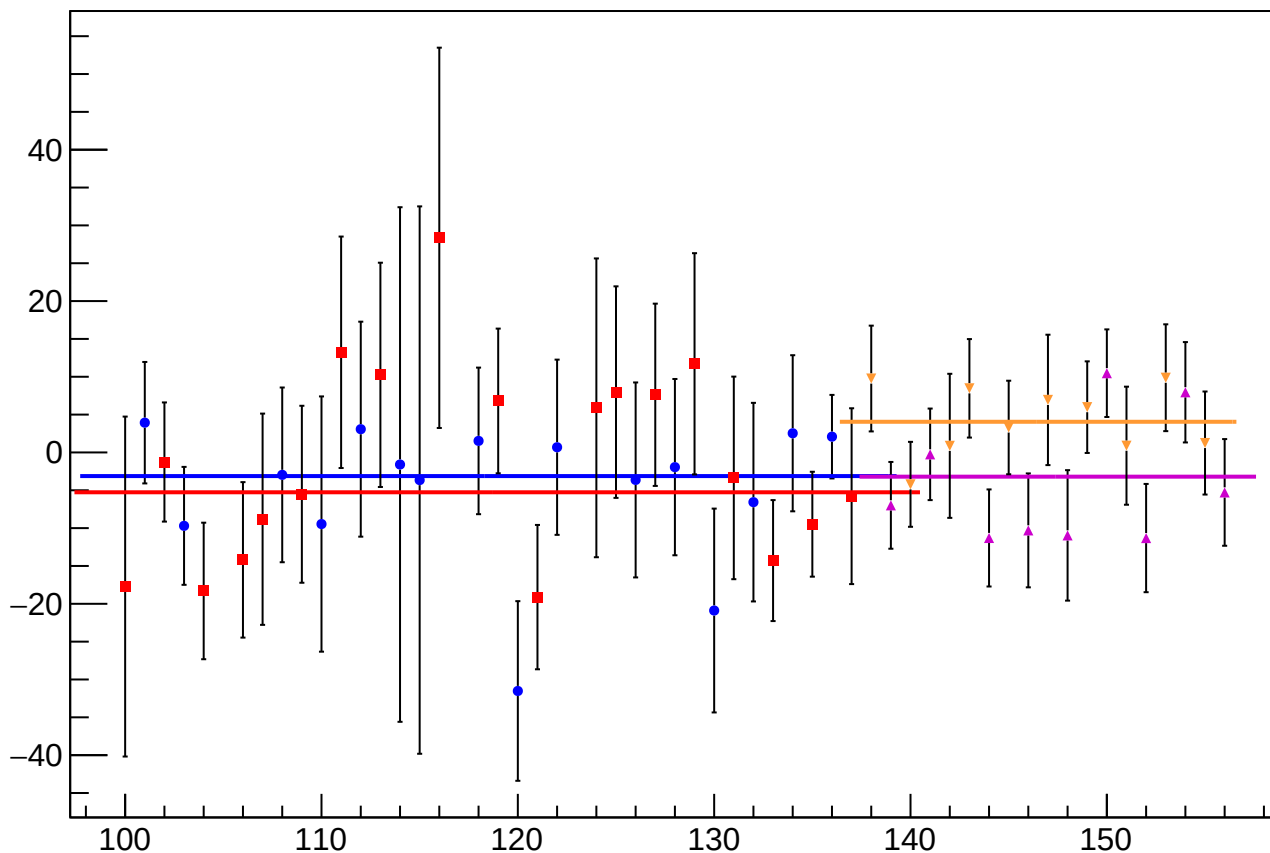
Right: 12669.304 $\pm$ 2.397 χ^2 /NDF: 1246455.4/34

In: 9998.696 $\pm$ 1.882 χ^2 /NDF:1688251.4/24

Out: 9801.624 $\pm$ 1.841 χ^2 /NDF:2090303.4/28

All: 9898.030 $\pm$ 1.316 χ^2 /NDF: 3784158.1/53

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -3.123 ± 2.656 χ^2/NDF : 10.9/15

Left Out: 4.052 ± 2.172 χ^2/NDF : 4.7/9

Right Out: -5.265 ± 2.553 χ^2/NDF : 16.9/18

Left In: -3.201 ± 2.206 χ^2/NDF : 13.8/8

Left: 0.482 ± 1.548 χ^2/NDF : 23.9/18

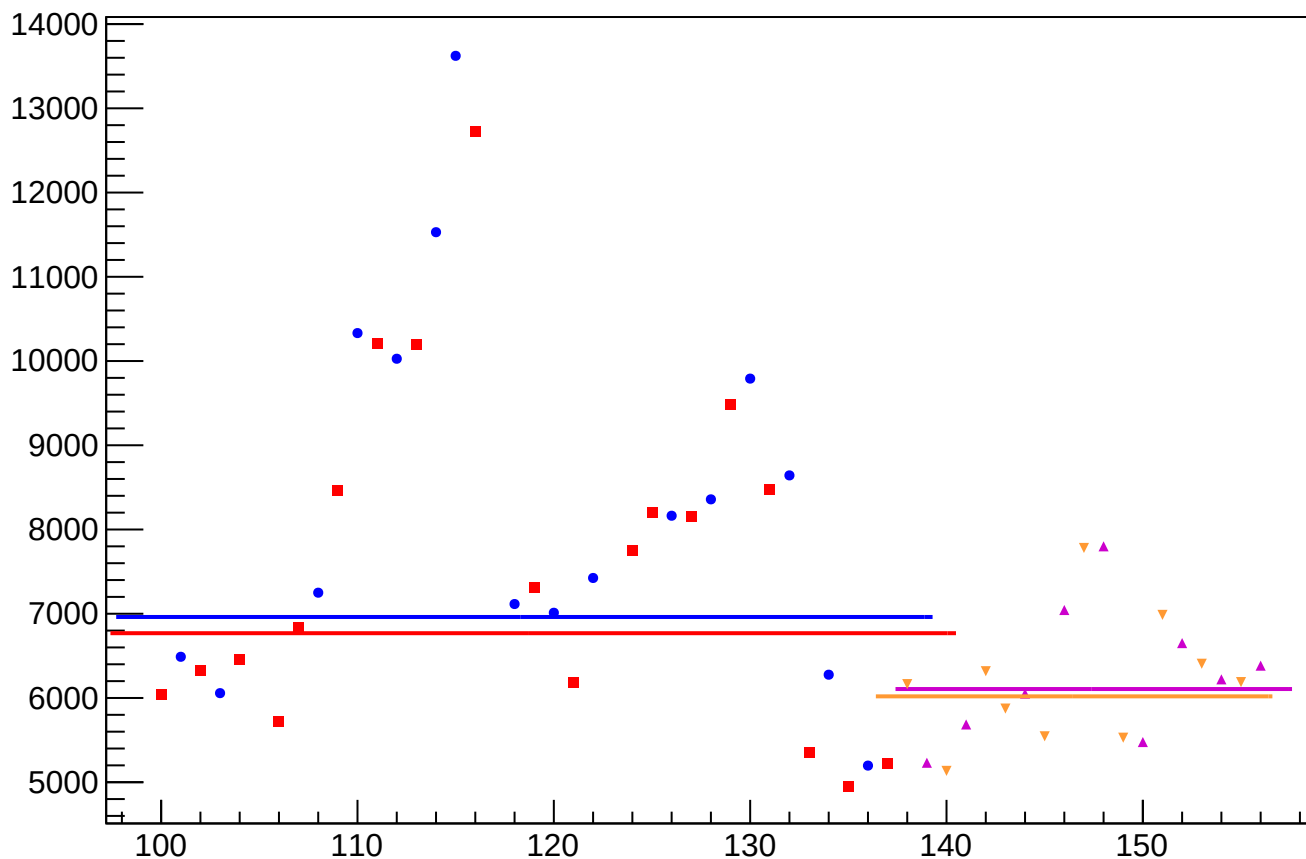
Right: -4.236 ± 1.840 χ^2/NDF : 28.1/34

In: -3.169 ± 1.697 χ^2/NDF : 24.6/24

Out: 0.140 ± 1.654 χ^2/NDF : 29.3/28

All: -1.473 ± 1.185 χ^2/NDF : 55.9/53

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6961.606 $\pm$ 1.878 χ^2/NDF : 696410.4/15

Left Out: 6019.227 $\pm$ 1.536 χ^2/NDF : 200117.0/9

Right Out: 6768.993 $\pm$ 1.805 χ^2/NDF : 798105.0/18

Left In: 6106.250 $\pm$ 1.560 χ^2/NDF : 203703.3/8

Left: 6062.064 $\pm$ 1.094 χ^2/NDF : 405400.4/18

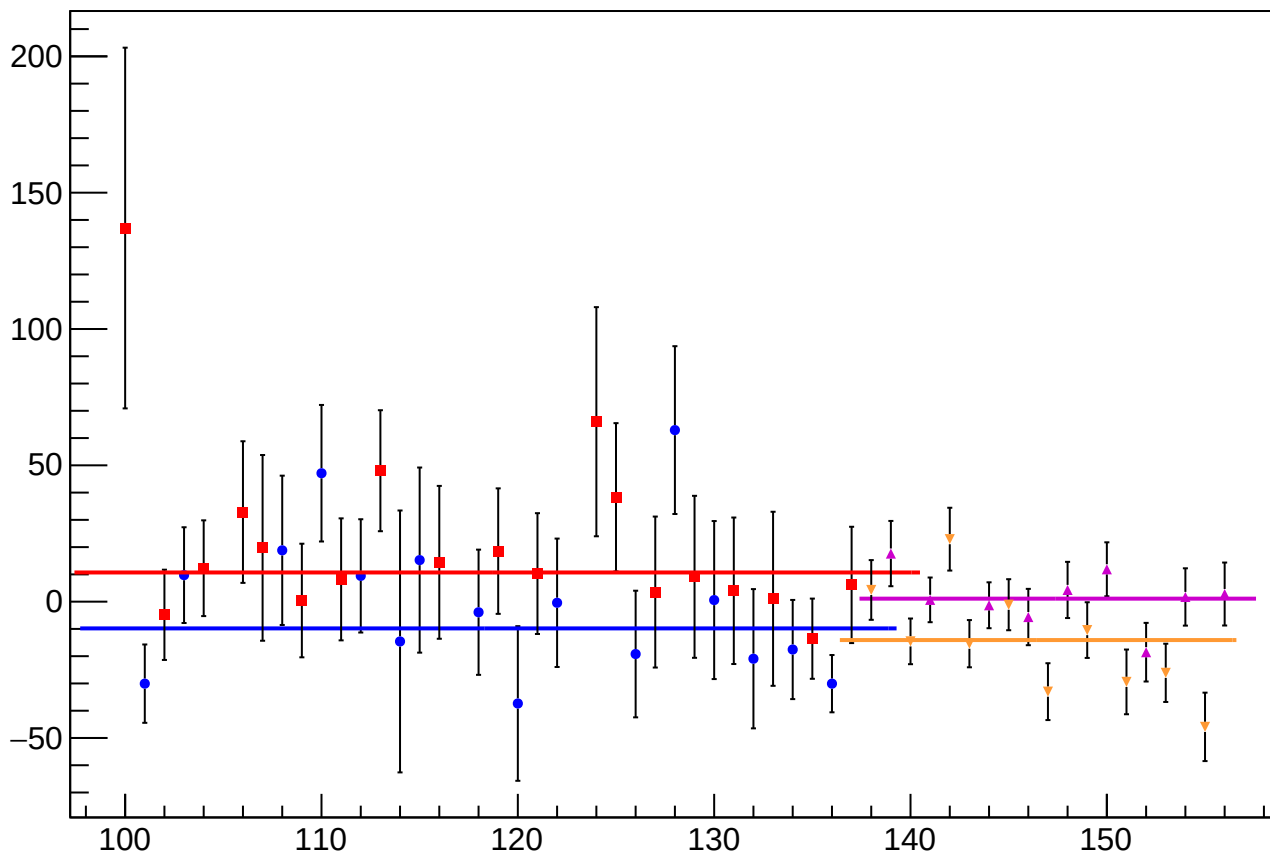
Right: 6861.506 $\pm$ 1.301 χ^2/NDF : 1499983.0/34

In: 6455.516 $\pm$ 1.200 χ^2/NDF : 1022873.8/24

Out: 6334.074 $\pm$ 1.170 χ^2/NDF : 1098278.6/28

All: 6393.253 $\pm$ 0.838 χ^2/NDF : 2126403.7/53

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.810 ± 5.178 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -14.087 ± 3.230 $\chi^2/\text{NDF}: 27.9/9$

Right Out: 10.703 ± 5.381 $\chi^2/\text{NDF}: 14.3/18$

Left In: 1.101 ± 3.330 $\chi^2/\text{NDF}: 7.1/8$

Left: -6.725 ± 2.318 $\chi^2/\text{NDF}: 45.7/18$

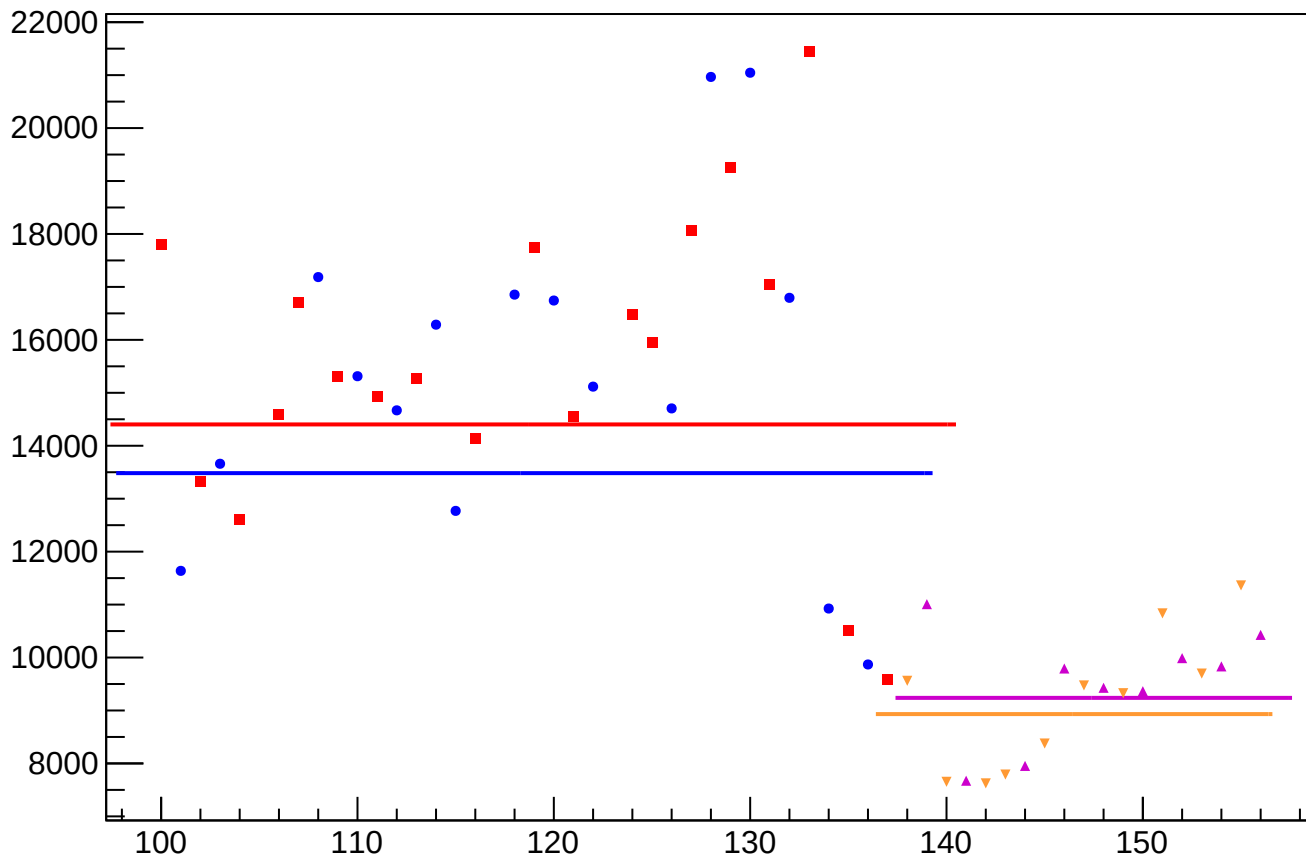
Right: 0.053 ± 3.731 $\chi^2/\text{NDF}: 43.9/34$

In: -2.091 ± 2.801 $\chi^2/\text{NDF}: 32.2/24$

Out: -7.521 ± 2.769 $\chi^2/\text{NDF}: 57.8/28$

All: -4.837 ± 1.969 $\chi^2/\text{NDF}: 91.9/53$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13482.879 $\pm$ 3.661 χ^2/NDF : 743704.4/15

Left Out: 8931.915 $\pm$ 2.284 χ^2/NDF : 265882.7/9

Right Out: 14402.670 $\pm$ 3.805 χ^2/NDF : 552430.0/18

Left In: 9238.267 $\pm$ 2.355 χ^2/NDF : 207433.1/8

Left: 9080.410 $\pm$ 1.639 χ^2/NDF : 482038.7/18

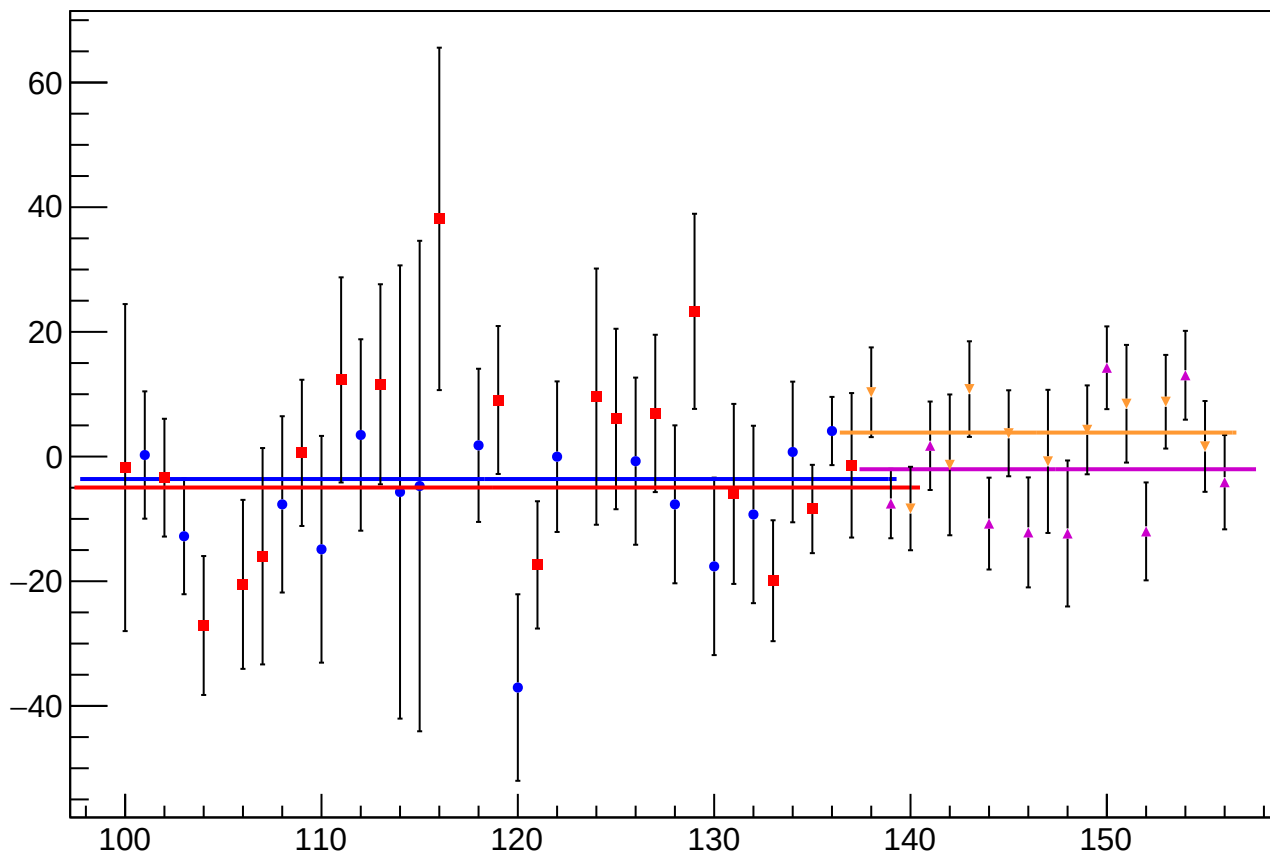
Right: 13925.139 $\pm$ 2.638 χ^2/NDF : 1326477.7/34

In: 10480.052 $\pm$ 1.980 χ^2/NDF : 1901882.7/24

Out: 10380.881 $\pm$ 1.958 χ^2/NDF : 2338292.0/28

All: 10429.903 $\pm$ 1.392 χ^2/NDF : 4241442.8/5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -3.605 $\pm$ 2.940 χ^2/NDF : 10.5/15

Left Out: 3.846 $\pm$ 2.480 χ^2/NDF : 6.1/9

Right Out: -4.965 $\pm$ 2.855 χ^2/NDF : 21.4/18

Left In: -2.034 $\pm$ 2.449 χ^2/NDF : 16.9/8

Left: 0.868 $\pm$ 1.743 χ^2/NDF : 25.9/18

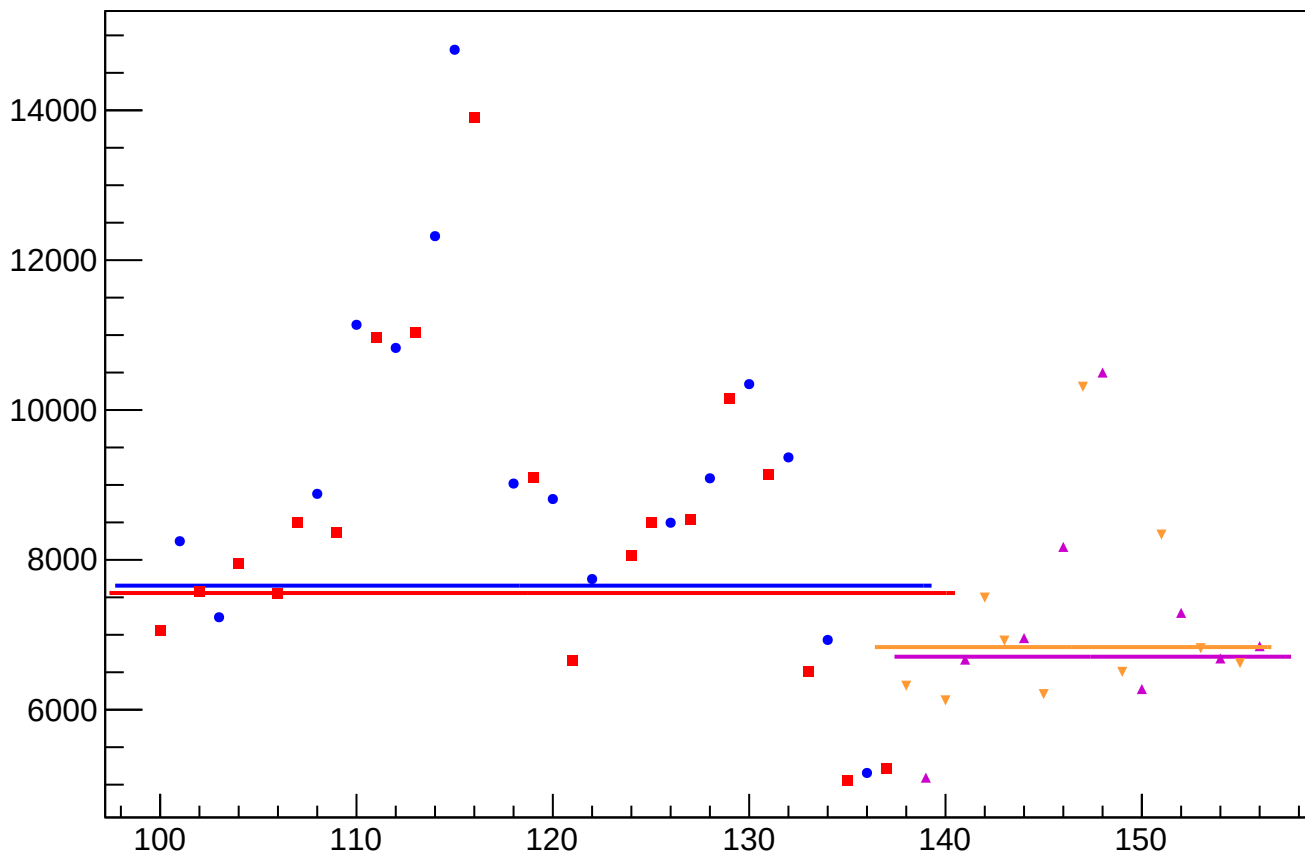
Right: -4.305 $\pm$ 2.048 χ^2/NDF : 32.0/34

In: -2.678 $\pm$ 1.882 χ^2/NDF : 27.6/24

Out: 0.056 $\pm$ 1.873 χ^2/NDF : 32.9/28

All: -1.304 $\pm$ 1.327 χ^2/NDF : 61.5/53

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7655.851 $\pm$ 2.079 χ^2/NDF : 879769.7/15

Left Out: 6835.970 $\pm$ 1.754 χ^2/NDF : 296343.6/9

Right Out: 7557.497 $\pm$ 2.019 χ^2/NDF : 809860.3/18

Left In: 6707.571 $\pm$ 1.732 χ^2/NDF : 455486.1/8

Left: 6770.949 $\pm$ 1.232 χ^2/NDF : 754543.8/18

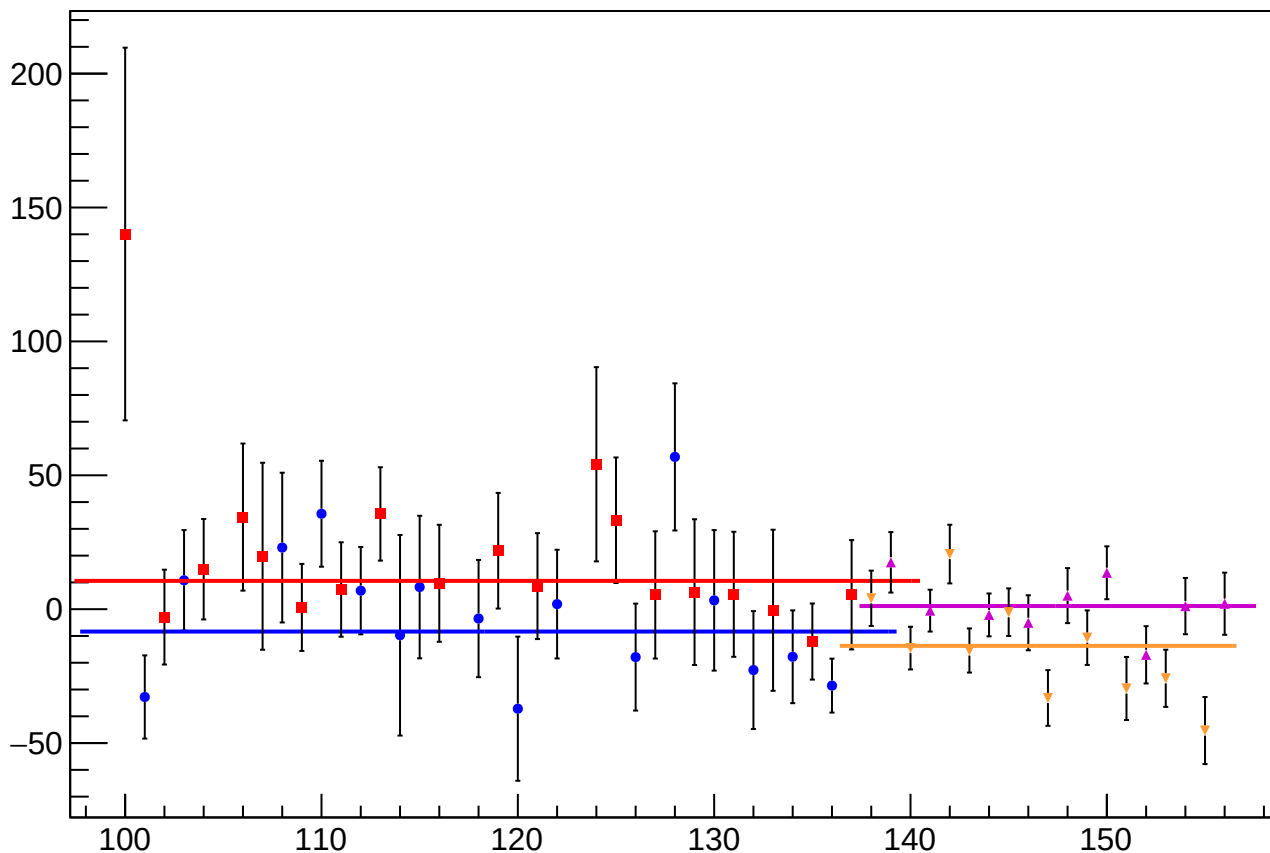
Right: 7605.240 $\pm$ 1.448 χ^2/NDF : 1690781.9/34

In: 7095.989 $\pm$ 1.330 χ^2/NDF : 1458104.0/24

Out: 7146.259 $\pm$ 1.324 χ^2/NDF : 1178987.6/28

All: 7121.245 $\pm$ 0.939 χ^2/NDF : 2637808.8/53

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.352 ± 4.814 $\chi^2/\text{NDF}: 23.2/15$

Left Out: -13.697 ± 3.130 $\chi^2/\text{NDF}: 27.9/9$

Right Out: 10.573 ± 4.911 $\chi^2/\text{NDF}: 12.9/18$

Left In: 1.179 ± 3.256 $\chi^2/\text{NDF}: 7.3/8$

Left: -6.553 ± 2.257 $\chi^2/\text{NDF}: 46.0/18$

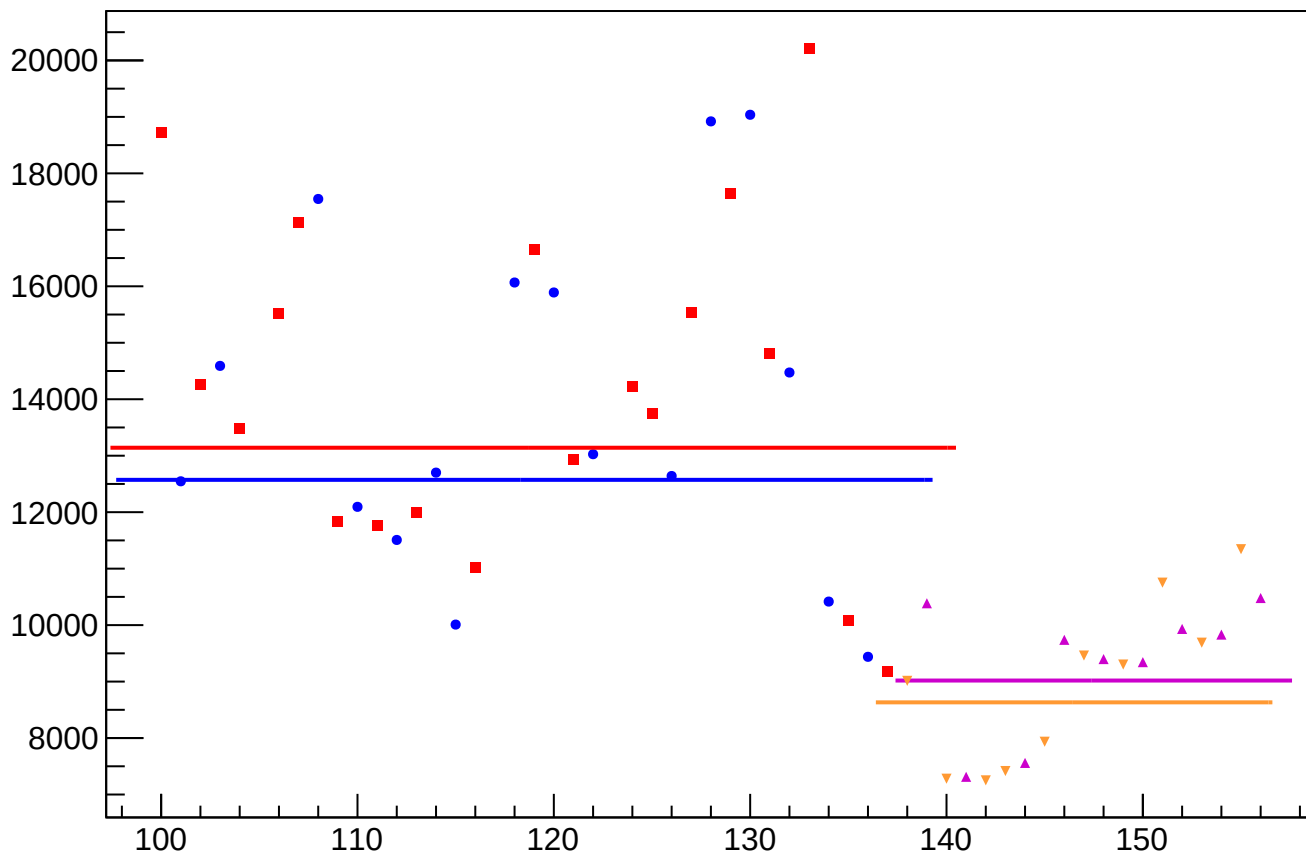
Right: 0.922 ± 3.438 $\chi^2/\text{NDF}: 43.7/34$

In: -1.813 ± 2.697 $\chi^2/\text{NDF}: 33.3/24$

Out: -6.685 ± 2.640 $\chi^2/\text{NDF}: 58.1/28$

All: -4.301 ± 1.887 $\chi^2/\text{NDF}: 93.1/53$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12572.586 $\pm$ 3.404 χ^2 /NDF: 665026.8/15

Left Out: 8632.195 $\pm$ 2.213 χ^2 /NDF:347376.7/9

Right Out: 13141.218 $\pm$ 3.473 χ^2 /NDF: 534726.5/18

Left In: 9018.528 $\pm$ 2.303 χ^2 /NDF:264215.8/8

Left: 8817.736 $\pm$ 1.596 χ^2 /NDF: 626222.3/18

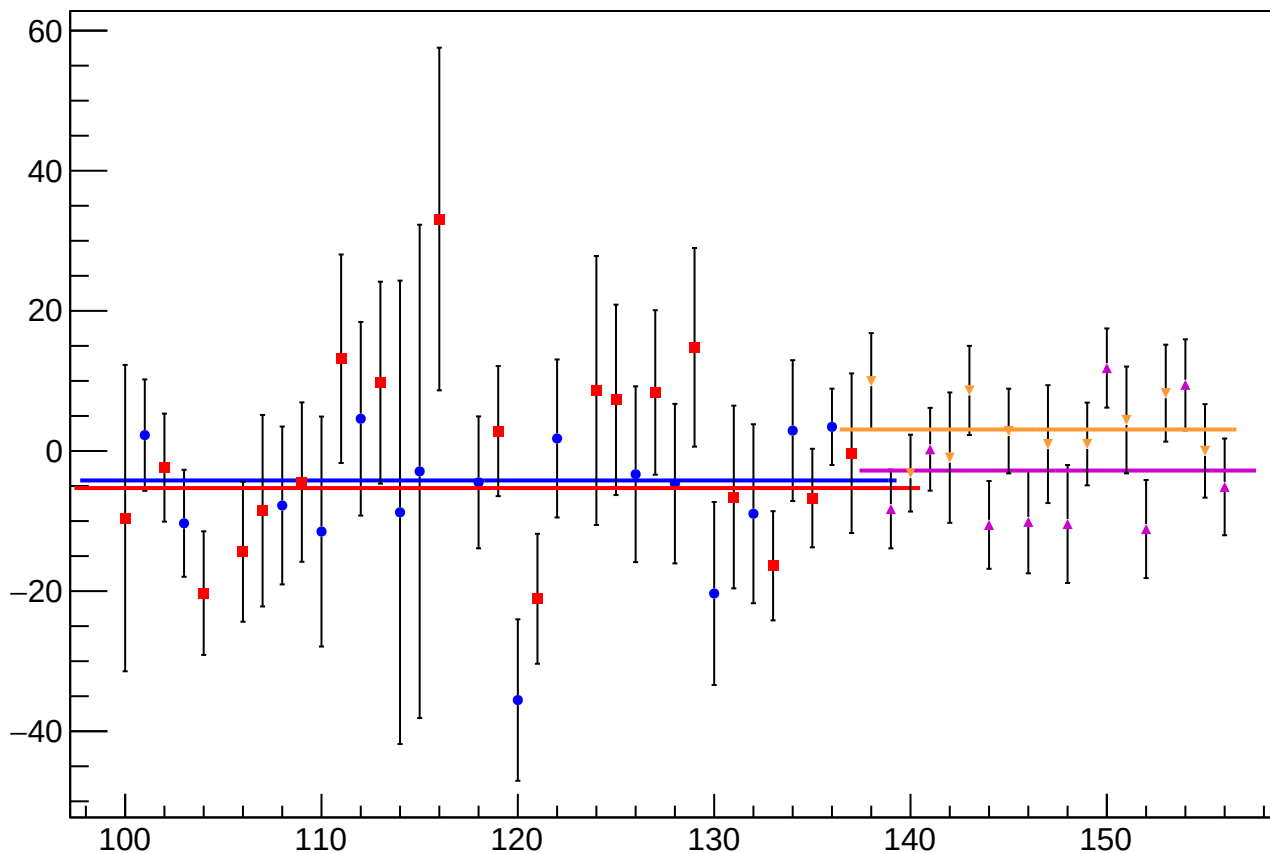
Right: 12851.222 $\pm$ 2.431 χ^2 /NDF: 1213428.5/34

In: 10134.370 $\pm$ 1.907 χ^2 /NDF:1677171.7/24

Out: 9934.963 $\pm$ 1.867 χ^2 /NDF:2081024.3/28

All: 10032.516 $\pm$ 1.334 χ^2 /NDF: 3763779.5/5

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -4.204 $\pm$ 2.600 χ^2/NDF : 13.9/15

Left Out: 3.068 $\pm$ 2.124 χ^2/NDF : 4.2/9

Right Out: -5.288 $\pm$ 2.502 χ^2/NDF : 19.7/18

Left In: -2.791 $\pm$ 2.157 χ^2/NDF : 16.3/8

Left: 0.184 $\pm$ 1.514 χ^2/NDF : 24.3/18

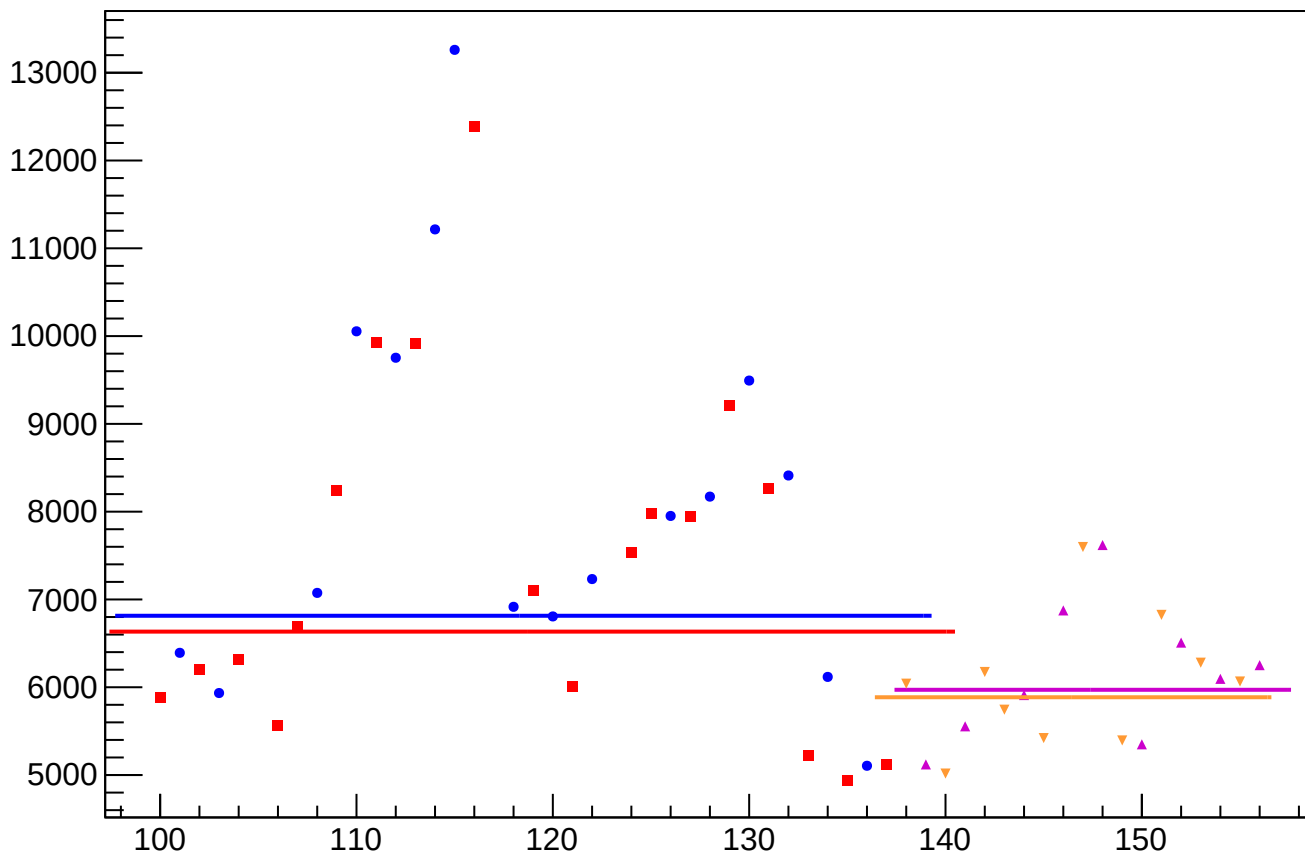
Right: -4.767 $\pm$ 1.803 χ^2/NDF : 33.7/34

In: -3.367 $\pm$ 1.660 χ^2/NDF : 30.4/24

Out: -0.432 $\pm$ 1.619 χ^2/NDF : 30.5/28

All: -1.863 $\pm$ 1.159 χ^2/NDF : 62.5/53

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6814.282 $\pm$ 1.839 χ^2 /NDF: 674093.4/15

Left Out: 5885.962 $\pm$ 1.502 χ^2 /NDF: 200969.1/9

Right Out: 6633.695 $\pm$ 1.769 χ^2 /NDF: 763347.6/18

Left In: 5971.022 $\pm$ 1.525 χ^2 /NDF: 202949.8/8

Left: 5927.835 $\pm$ 1.070 χ^2 /NDF: 405497.5/18

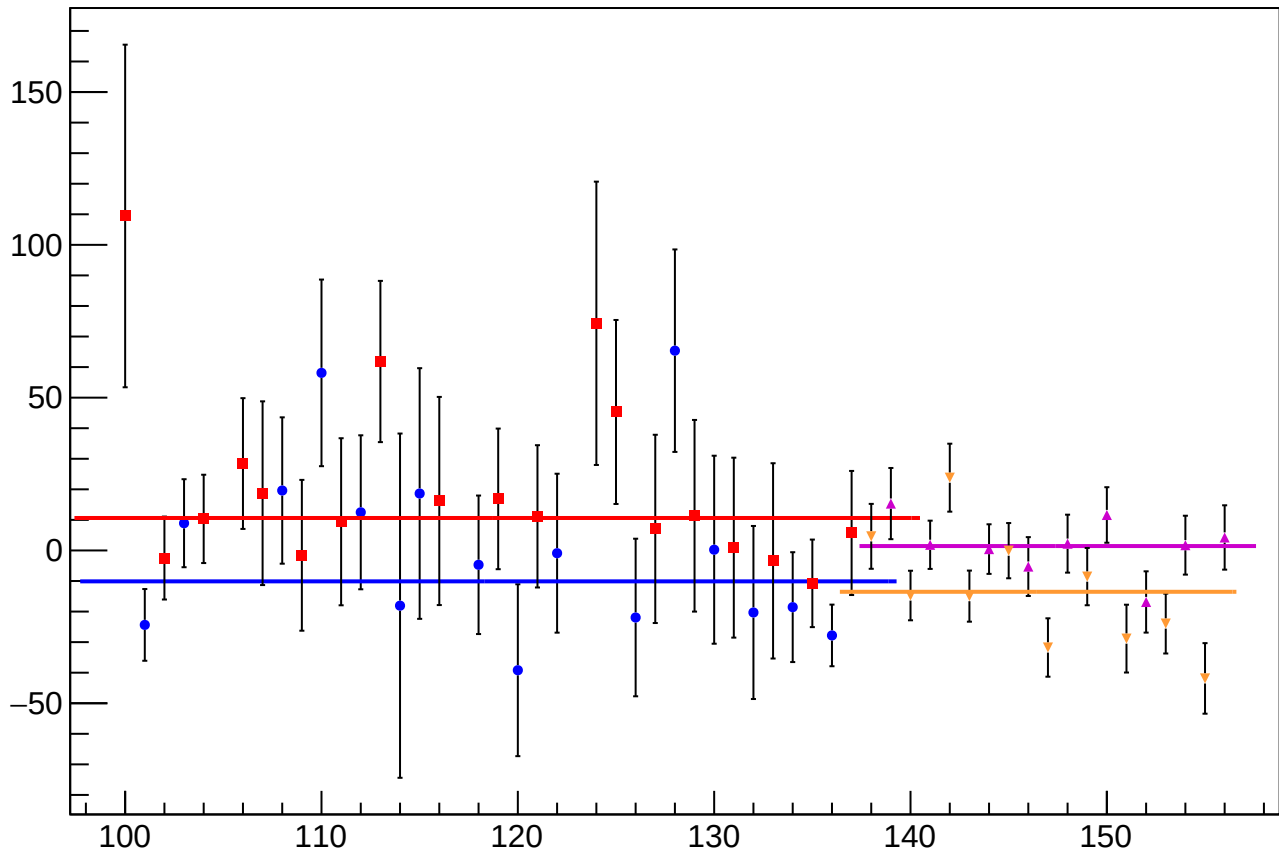
Right: 6720.509 $\pm$ 1.275 χ^2 /NDF: 1442449.8/34

In: 6314.796 $\pm$ 1.174 χ^2 /NDF: 1001623.9/24

Out: 6199.166 $\pm$ 1.145 χ^2 /NDF: 1068121.4/28

All: 6255.536 $\pm$ 0.820 χ^2 /NDF: 2074716.8/53

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -10.113 ± 5.017 $\chi^2/\text{NDF}: 21.3/15$

Left Out: -13.526 ± 3.056 $\chi^2/\text{NDF}: 29.4/9$

Right Out: 10.624 ± 5.277 $\chi^2/\text{NDF}: 14.7/18$

Left In: 1.440 ± 3.126 $\chi^2/\text{NDF}: 6.6/8$

Left: -6.212 ± 2.185 $\chi^2/\text{NDF}: 47.8/18$

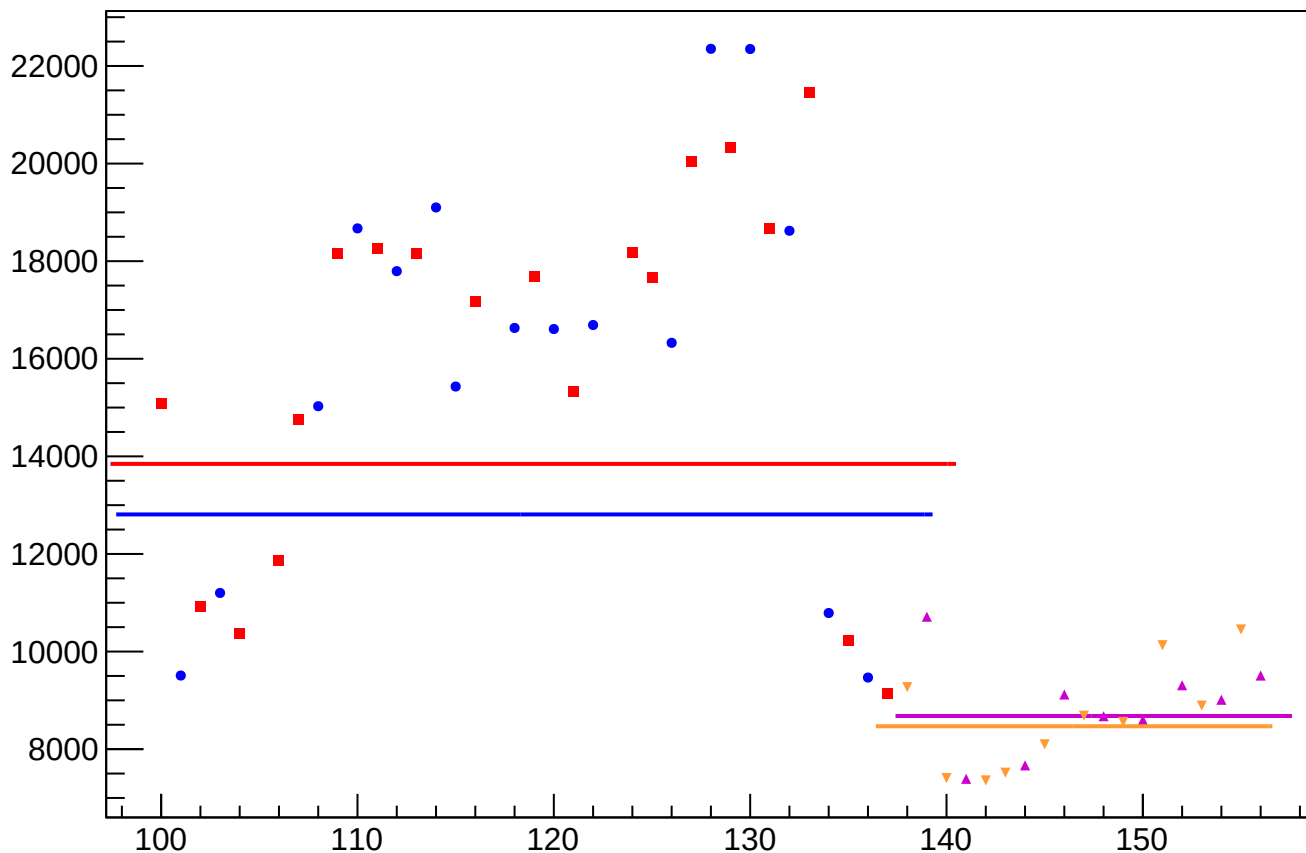
Right: -0.267 ± 3.636 $\chi^2/\text{NDF}: 44.1/34$

In: -1.790 ± 2.653 $\chi^2/\text{NDF}: 31.7/24$

Out: -7.461 ± 2.644 $\chi^2/\text{NDF}: 59.9/28$

All: -4.635 ± 1.873 $\chi^2/\text{NDF}: 93.8/53$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 12809.964 ± 3.548 $\chi^2/\text{NDF}: 1248252.1/15$

Left Out: 8469.091 ± 2.161 $\chi^2/\text{NDF}: 203577.3/9$

Right Out: 13845.622 ± 3.731 $\chi^2/\text{NDF}: 1096555.2/18$

Left In: 8679.577 ± 2.210 $\chi^2/\text{NDF}: 172321.9/8$

Left: 8571.954 ± 1.545 $\chi^2/\text{NDF}: 380536.8/18$

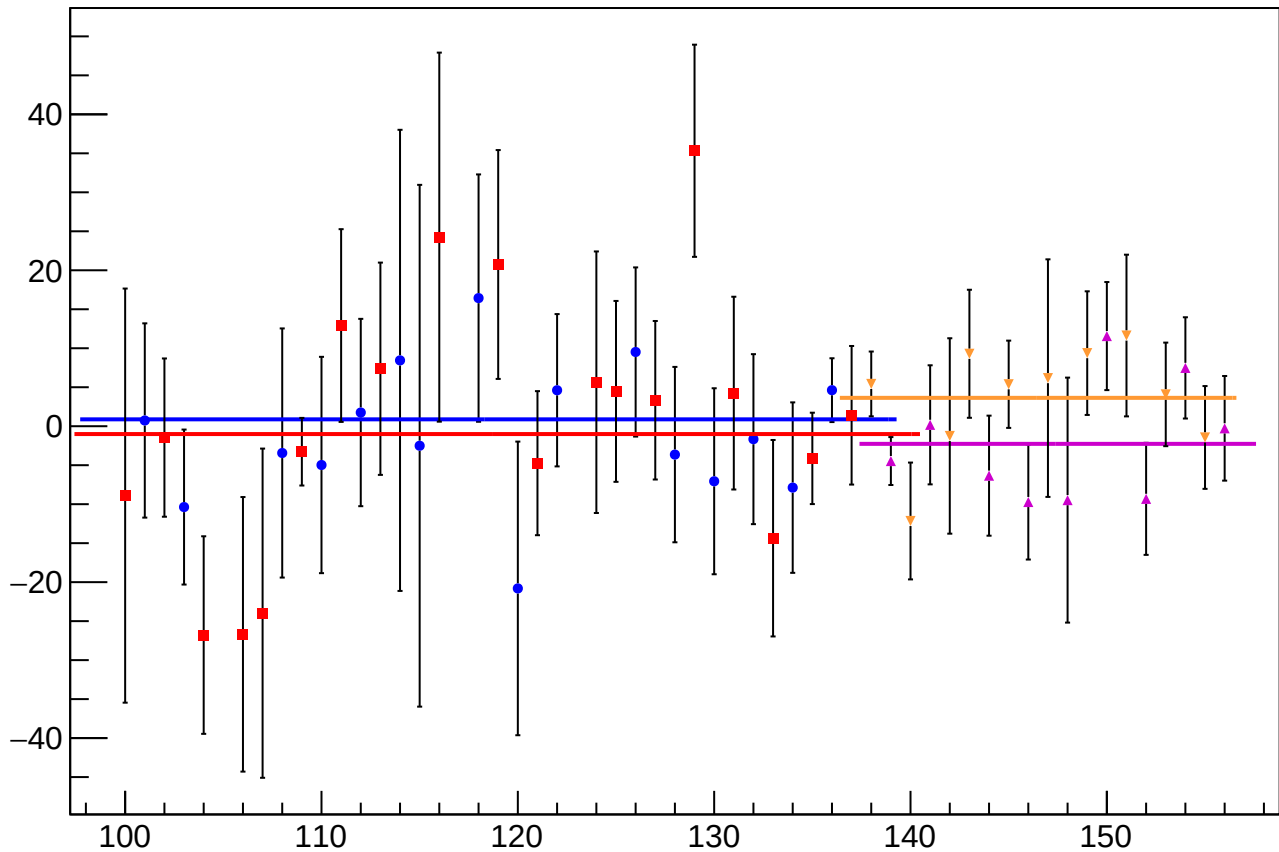
Right: 13301.707 ± 2.571 $\chi^2/\text{NDF}: 2385270.2/34$

In: 9834.385 ± 1.876 $\chi^2/\text{NDF}: 2397056.9/24$

Out: 9819.323 ± 1.870 $\chi^2/\text{NDF}: 2855086.0/28$

All: 9826.829 ± 1.324 $\chi^2/\text{NDF}: 5252175.3/53$

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.882 ± 2.566 $\chi^2/\text{NDF}: 6.8/15$

Left Out: 3.639 ± 2.214 $\chi^2/\text{NDF}: 7.1/9$

Right Out: -1.006 ± 2.314 $\chi^2/\text{NDF}: 22.3/18$

Left In: -2.263 ± 2.006 $\chi^2/\text{NDF}: 9.4/8$

Left: 0.399 ± 1.487 $\chi^2/\text{NDF}: 20.4/18$

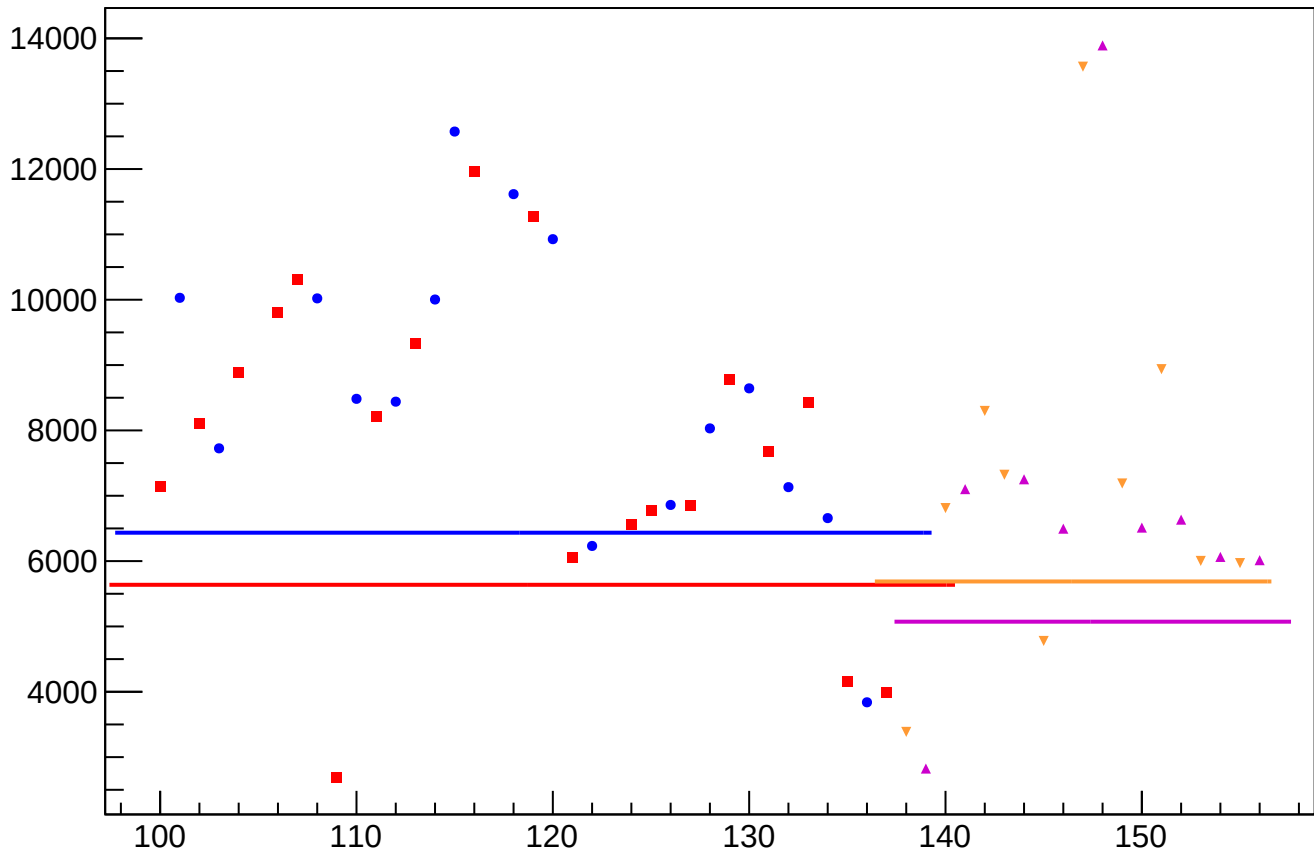
Right: -0.159 ± 1.718 $\chi^2/\text{NDF}: 29.4/34$

In: -1.070 ± 1.580 $\chi^2/\text{NDF}: 17.2/24$

Out: 1.419 ± 1.600 $\chi^2/\text{NDF}: 31.5/28$

All: 0.160 ± 1.124 $\chi^2/\text{NDF}: 49.9/53$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6434.559+/-1.814 χ^2/NDF : 1750609.4/15

Left Out: 5688.340+/-1.565 χ^2/NDF : 1688566.7/9

Right Out: 5637.344+/-1.636 χ^2/NDF : 2580013.6/18

Left In: 5072.766+/-1.419 χ^2/NDF : 2342927.7/8

Left: 5350.361+/-1.051 χ^2/NDF : 4116409.8/18

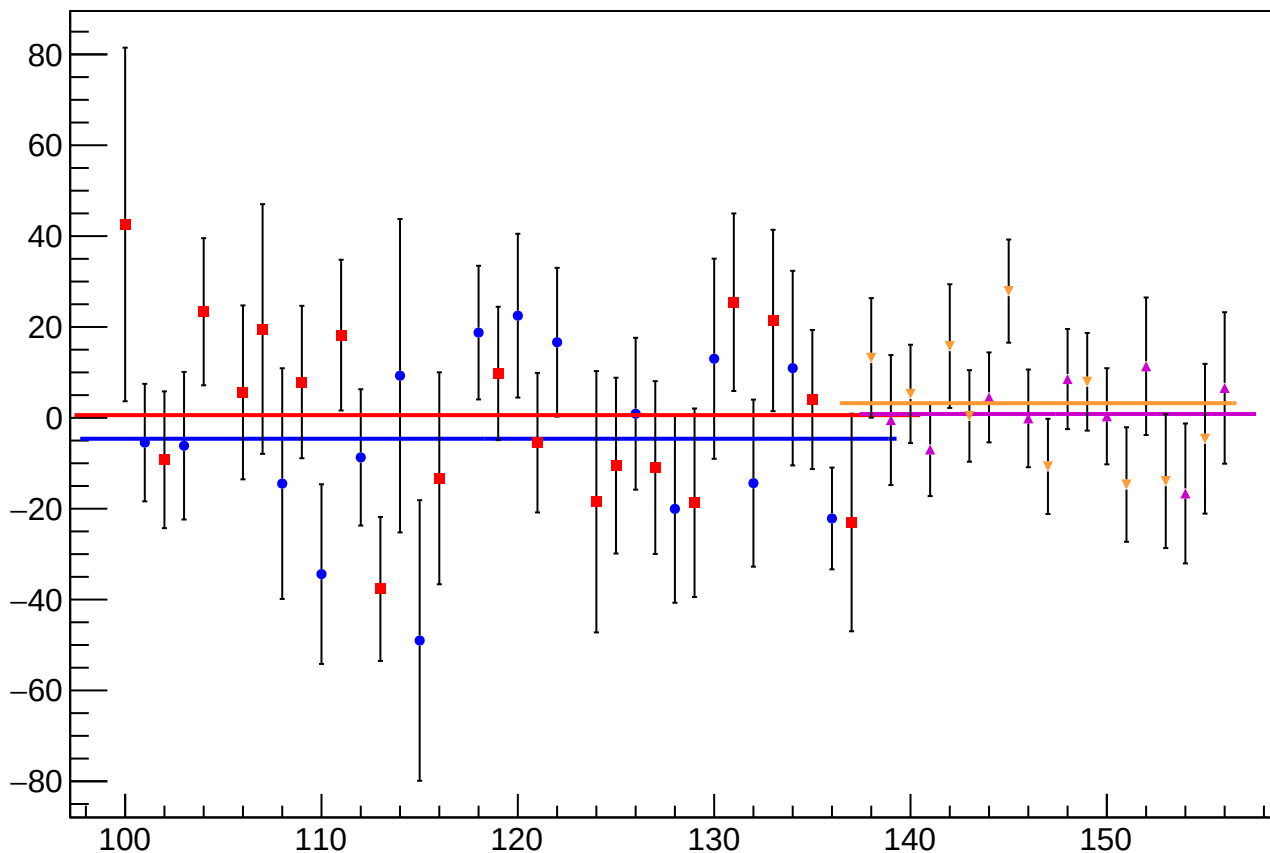
Right: 5994.862+/-1.215 χ^2/NDF : 4437091.5/34

In: 5589.365+/-1.118 χ^2/NDF : 4443127.6/24

Out: 5663.970+/-1.131 χ^2/NDF : 4269087.5/28

All: 5626.221+/-0.795 χ^2/NDF : 8714416.6/53

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.602 ± 4.355 χ^2/NDF : 15.8/15

Left Out: 3.227 ± 3.789 χ^2/NDF : 11.8/9

Right Out: 0.600 ± 4.266 χ^2/NDF : 17.9/18

Left In: 0.842 ± 3.997 χ^2/NDF : 3.1/8

Left: 2.098 ± 2.750 χ^2/NDF : 15.1/18

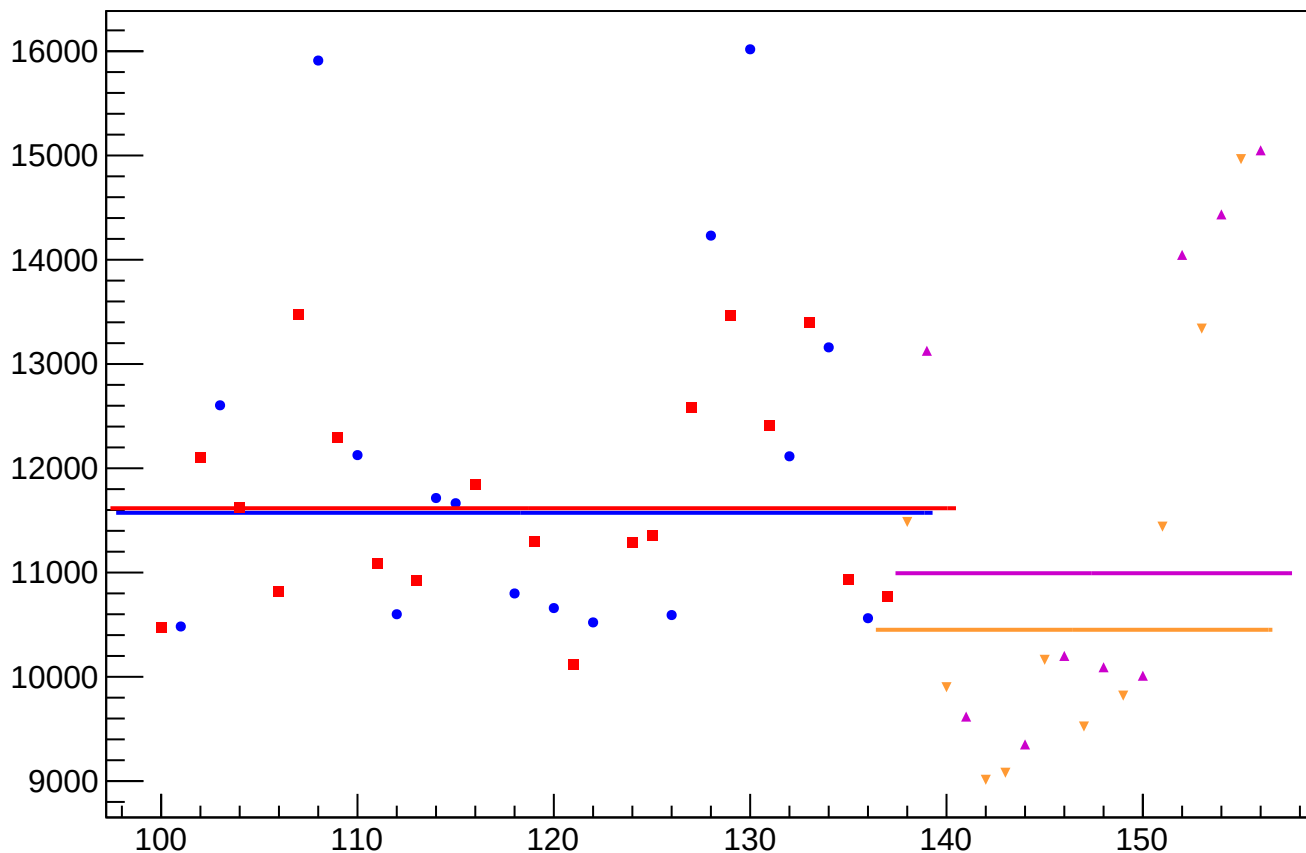
Right: -1.948 ± 3.048 χ^2/NDF : 34.4/34

In: -1.647 ± 2.945 χ^2/NDF : 19.7/24

Out: 2.069 ± 2.833 χ^2/NDF : 29.9/28

All: 0.282 ± 2.042 χ^2/NDF : 50.5/53

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.073 $\pm$ 3.079 χ^2/NDF : 260067.0/15

Left Out: 10451.107 $\pm$ 2.679 χ^2/NDF : 339935.7/9

Right Out: 11616.773 $\pm$ 3.017 χ^2/NDF : 93165.6/18

Left In: 10993.479 $\pm$ 2.827 χ^2/NDF : 476732.6/8

Left: 10707.803 $\pm$ 1.945 χ^2/NDF : 836062.0/18

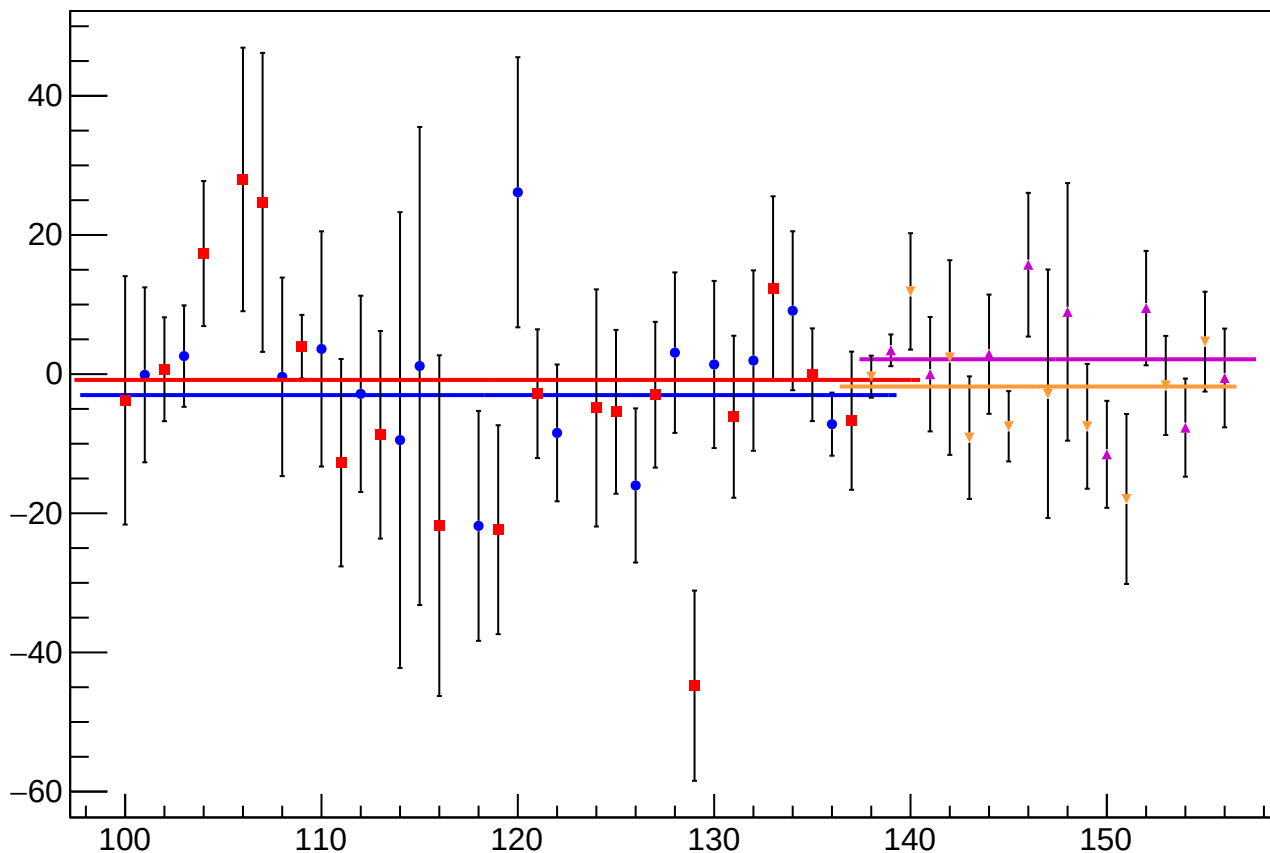
Right: 11595.370 $\pm$ 2.155 χ^2/NDF : 353335.4/34

In: 11258.521 $\pm$ 2.082 χ^2/NDF : 756027.3/24

Out: 10965.111 $\pm$ 2.003 χ^2/NDF : 516562.4/28

All: 11106.148 $\pm$ 1.444 χ^2/NDF : 1282900.8/5

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.014 ± 2.654 χ^2/NDF : 8.7/15

Left Out: -1.782 ± 2.030 χ^2/NDF : 7.9/9

Right Out: -0.831 ± 2.352 χ^2/NDF : 23.8/18

Left In: 2.135 ± 1.811 χ^2/NDF : 8.3/8

Left: 0.399 ± 1.352 χ^2/NDF : 18.3/18

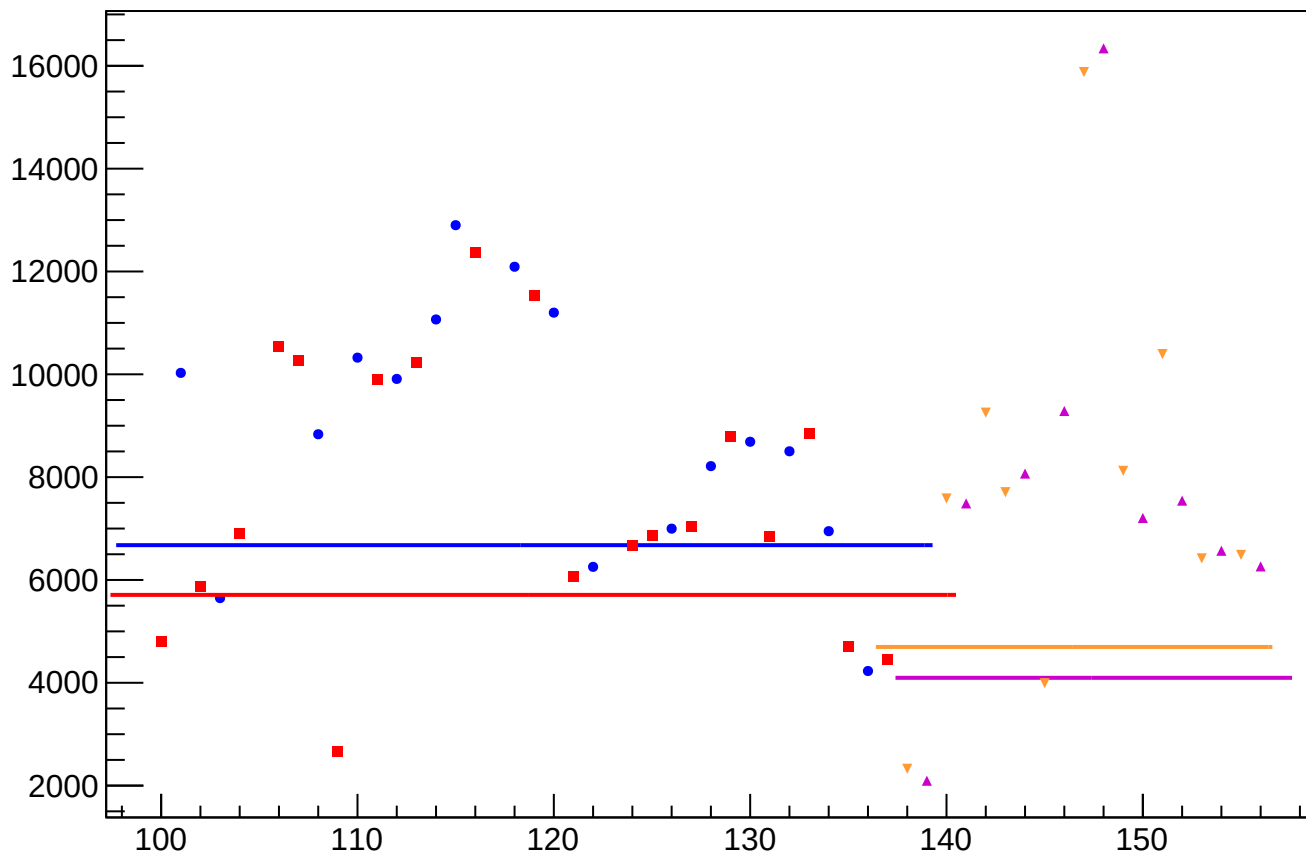
Right: -1.791 ± 1.760 χ^2/NDF : 32.9/34

In: 0.499 ± 1.496 χ^2/NDF : 19.5/24

Out: -1.376 ± 1.537 χ^2/NDF : 31.8/28

All: -0.414 ± 1.072 χ^2/NDF : 52.1/53

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6676.920+/-1.877 χ^2/NDF : 1572864.3/15

Left Out: 4697.018+/-1.435 χ^2/NDF : 3707680.0/9

Right Out: 5709.821+/-1.663 χ^2/NDF : 2301039.5/18

Left In: 4096.778+/-1.281 χ^2/NDF : 4801954.9/8

Left: 4362.852+/-0.956 χ^2/NDF : 8606973.5/18

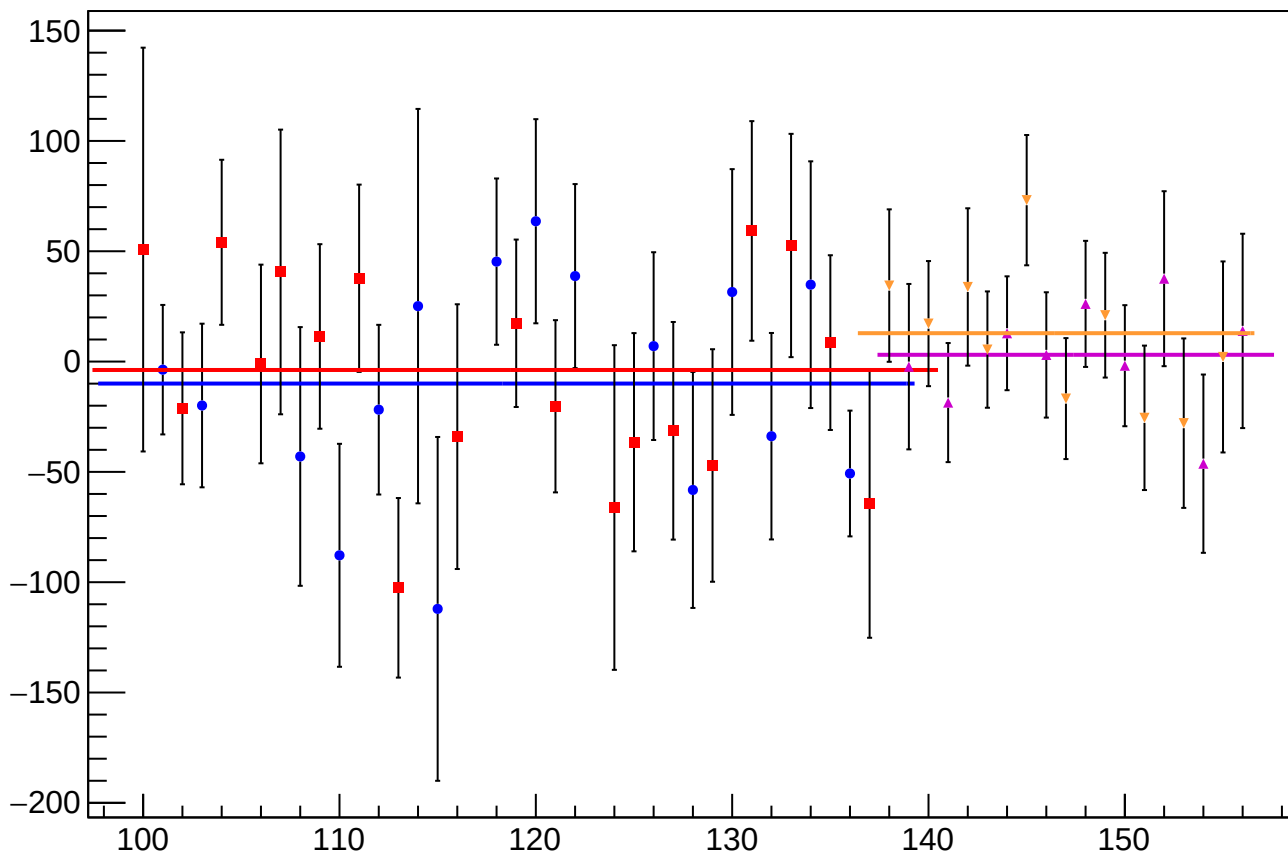
Right: 6135.167+/-1.245 χ^2/NDF : 4022672.5/34

In: 4916.797+/-1.058 χ^2/NDF : 7664332.3/24

Out: 5129.502+/-1.087 χ^2/NDF : 6221284.2/28

All: 5020.309+/-0.758 χ^2/NDF : 13905287.5/55

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.969 ± 10.836 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 12.862 ± 9.911 $\chi^2/\text{NDF}: 8.8/9$

Right Out: -3.814 ± 10.636 $\chi^2/\text{NDF}: 17.3/18$

Left In: 3.069 ± 10.458 $\chi^2/\text{NDF}: 3.8/8$

Left: 8.229 ± 7.194 $\chi^2/\text{NDF}: 13.1/18$

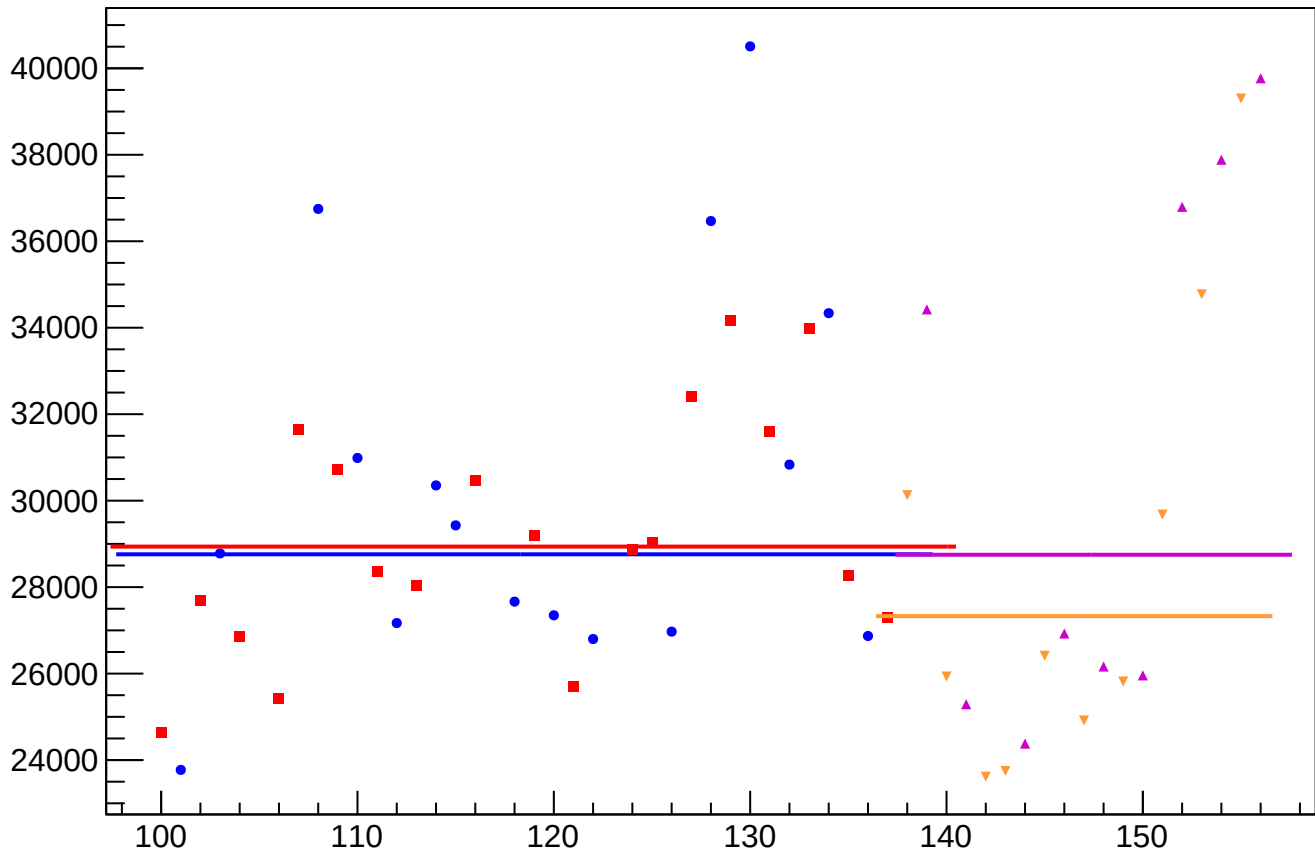
Right: -6.834 ± 7.591 $\chi^2/\text{NDF}: 32.8/34$

In: -3.219 ± 7.525 $\chi^2/\text{NDF}: 19.8/24$

Out: 5.112 ± 7.251 $\chi^2/\text{NDF}: 27.4/28$

All: 1.101 ± 5.221 $\chi^2/\text{NDF}: 47.9/53$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28759.090+/-7.662 χ^2/NDF : 277639.9/15

Left Out: 27329.112+/-7.008 χ^2/NDF : 338141.8/9

Right Out: 28937.633+/-7.521 χ^2/NDF : 106266.0/18

Left In: 28749.027+/-7.395 χ^2/NDF : 491061.9/8

Left: 28000.954+/-5.087 χ^2/NDF : 848627.3/18

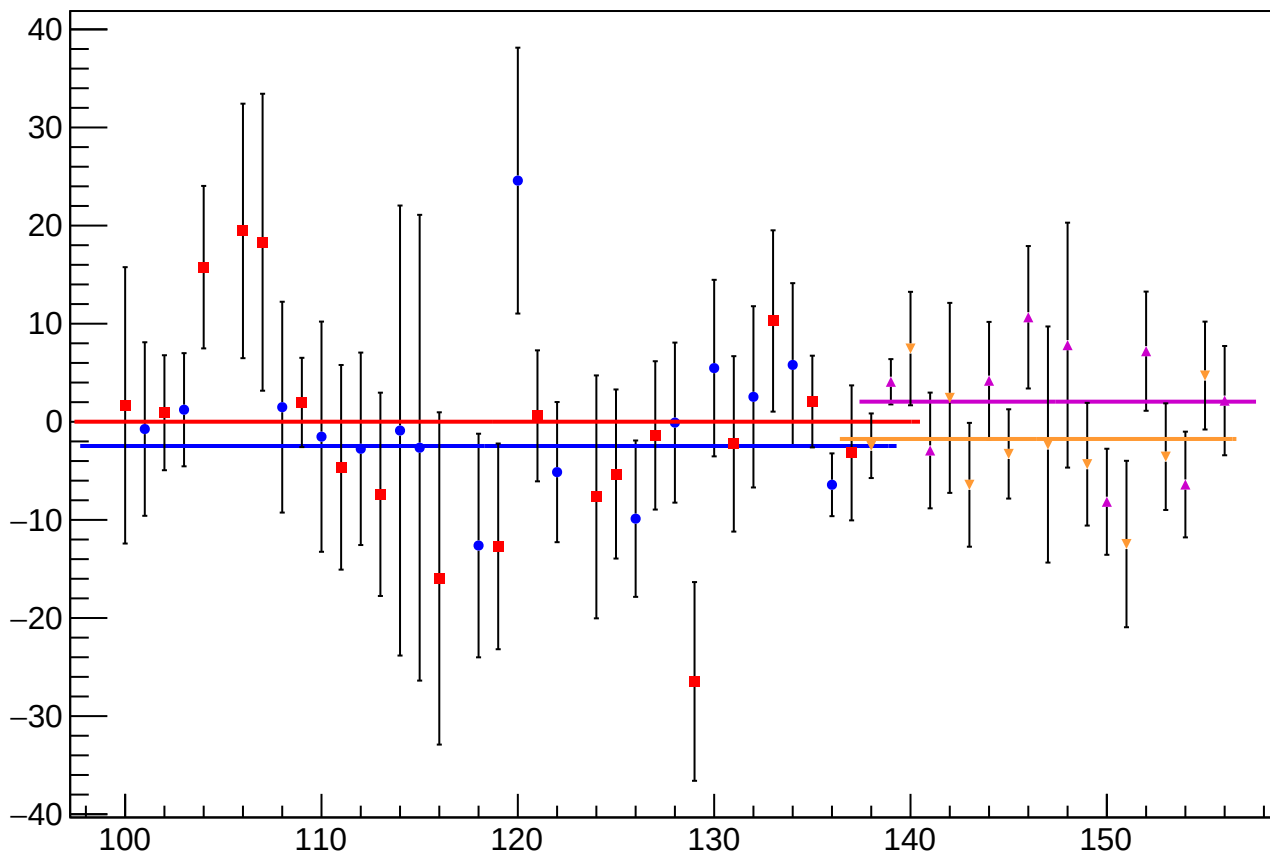
Right: 28850.024+/-5.367 χ^2/NDF : 384182.4/34

In: 28753.880+/-5.321 χ^2/NDF : 768702.7/24

Out: 28076.665+/-5.127 χ^2/NDF : 468891.0/28

All: 28402.710+/-3.692 χ^2/NDF : 1245993.0/5

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -2.467 $\pm$ 1.916 χ^2 /NDF: 10.0/15

Left Out: -1.751 $\pm$ 1.769 χ^2 /NDF: 6.7/9

Right Out: 0.009 $\pm$ 1.828 χ^2 /NDF: 20.0/18

Left In: 2.052 $\pm$ 1.586 χ^2 /NDF: 10.0/8

Left: 0.357 $\pm$ 1.181 χ^2 /NDF: 19.2/18

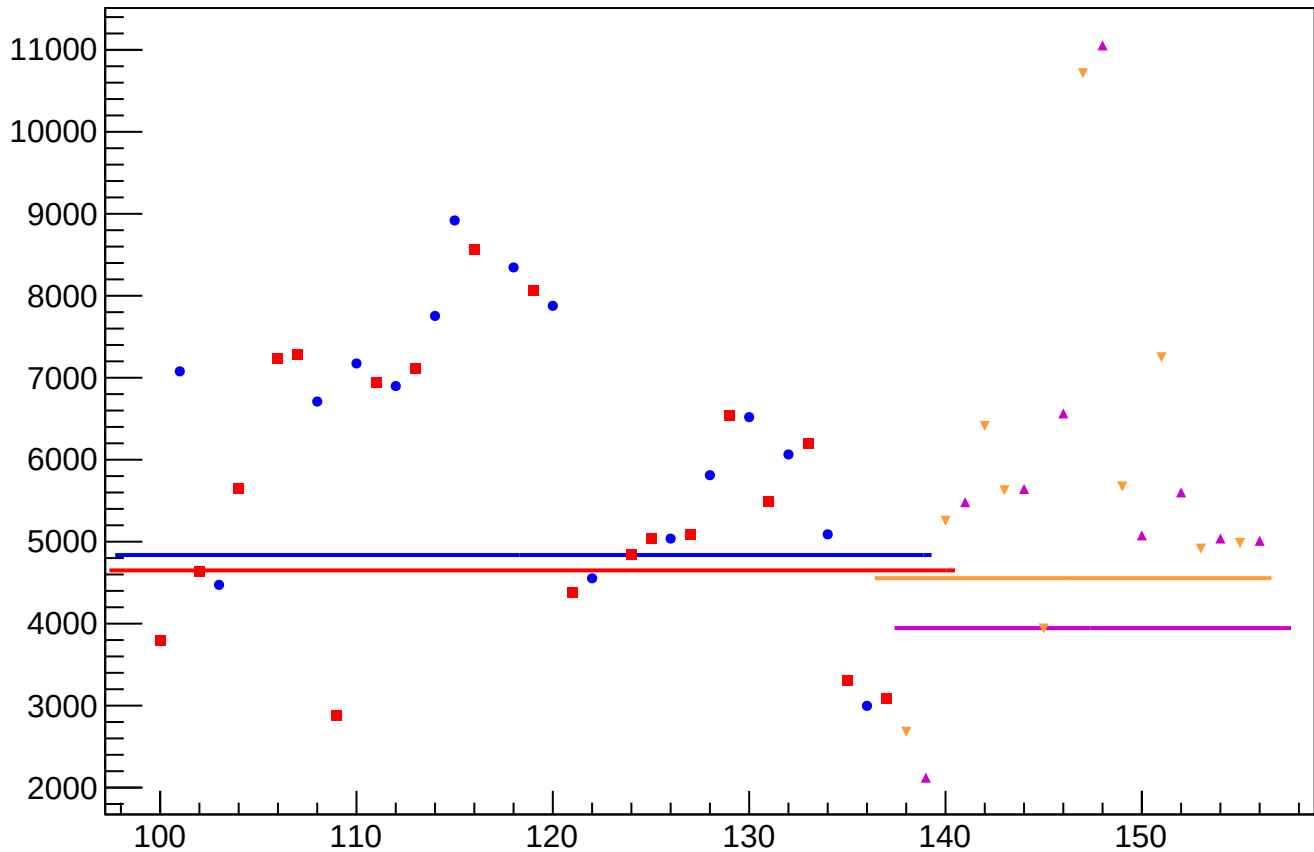
Right: -1.171 $\pm$ 1.323 χ^2 /NDF: 30.9/34

In: 0.214 $\pm$ 1.222 χ^2 /NDF: 23.3/24

Out: -0.900 $\pm$ 1.271 χ^2 /NDF: 27.1/28

All: -0.321 $\pm$ 0.881 χ^2 /NDF: 50.8/53

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4837.176+/-1.355 χ^2/NDF : 1547766.9/15

Left Out: 4554.876+/-1.251 χ^2/NDF : 1656463.1/9

Right Out: 4649.613+/-1.293 χ^2/NDF : 1434548.7/18

Left In: 3945.970+/-1.121 χ^2/NDF : 2846260.2/8

Left: 4217.280+/-0.835 χ^2/NDF : 4634085.7/18

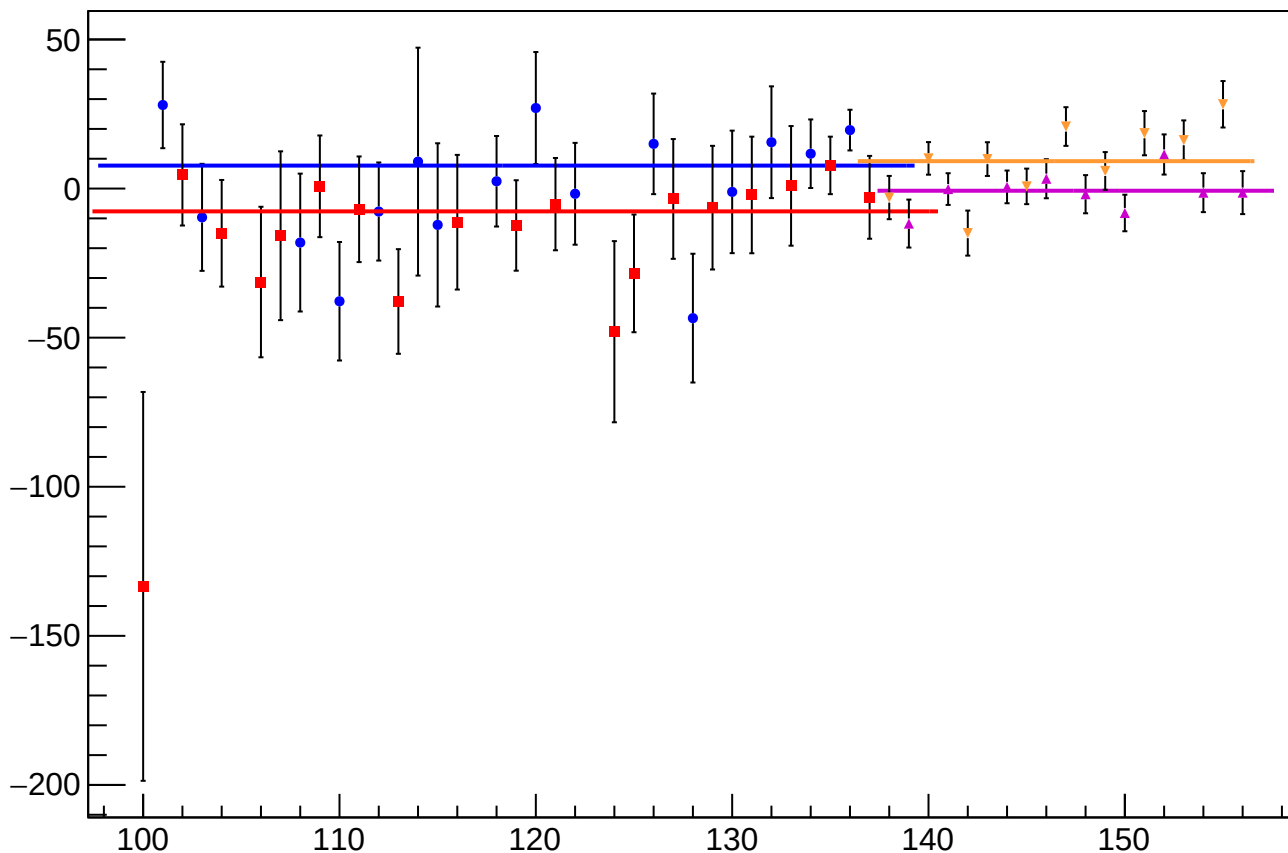
Right: 4739.013+/-0.935 χ^2/NDF : 2992350.1/34

In: 4308.398+/-0.864 χ^2/NDF : 4650862.4/24

Out: 4600.690+/-0.899 χ^2/NDF : 3093785.4/28

All: 4448.721+/-0.623 χ^2/NDF : 7799615.2/53

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.699 $\pm$ 3.820 χ^2/NDF : 21.6/15

Left Out: 9.188 $\pm$ 2.060 χ^2/NDF : 27.3/9

Right Out: -7.650 $\pm$ 4.099 χ^2/NDF : 14.6/18

Left In: -0.732 $\pm$ 2.116 χ^2/NDF : 7.1/8

Left: 4.362 $\pm$ 1.476 χ^2/NDF : 45.7/18

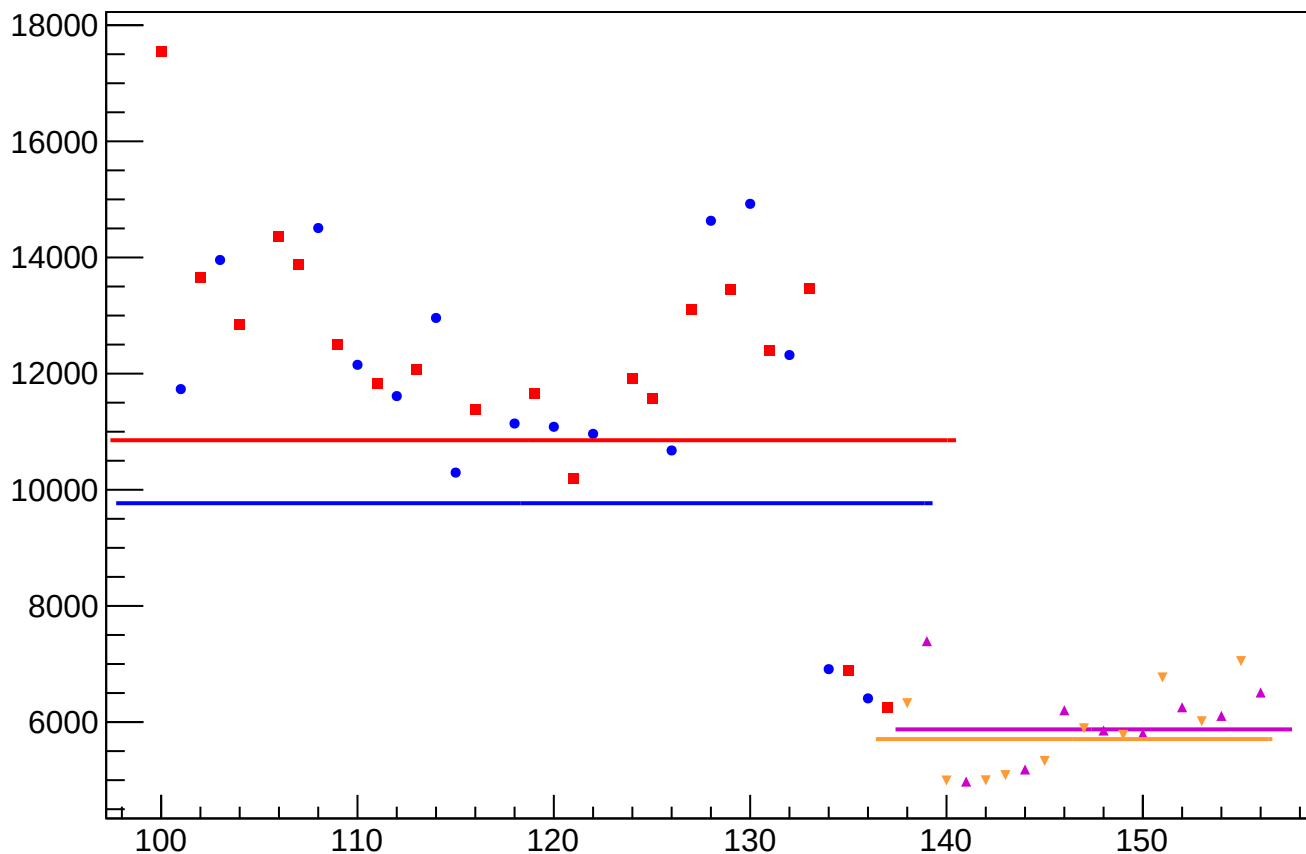
Right: 0.565 $\pm$ 2.795 χ^2/NDF : 43.7/34

In: 1.248 $\pm$ 1.851 χ^2/NDF : 32.4/24

Out: 5.793 $\pm$ 1.841 χ^2/NDF : 55.4/28

All: 3.534 $\pm$ 1.305 χ^2/NDF : 90.8/53

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 9768.772 $\pm$ 2.701 χ^2/NDF : 1213694.6/15

Left Out: 5707.159 $\pm$ 1.457 χ^2/NDF : 204982.5/9

Right Out: 10852.989 $\pm$ 2.899 χ^2/NDF : 874500.2/18

Left In: 5874.593 $\pm$ 1.497 χ^2/NDF : 190144.9/8

Left: 5788.611 $\pm$ 1.044 χ^2/NDF : 401555.0/18

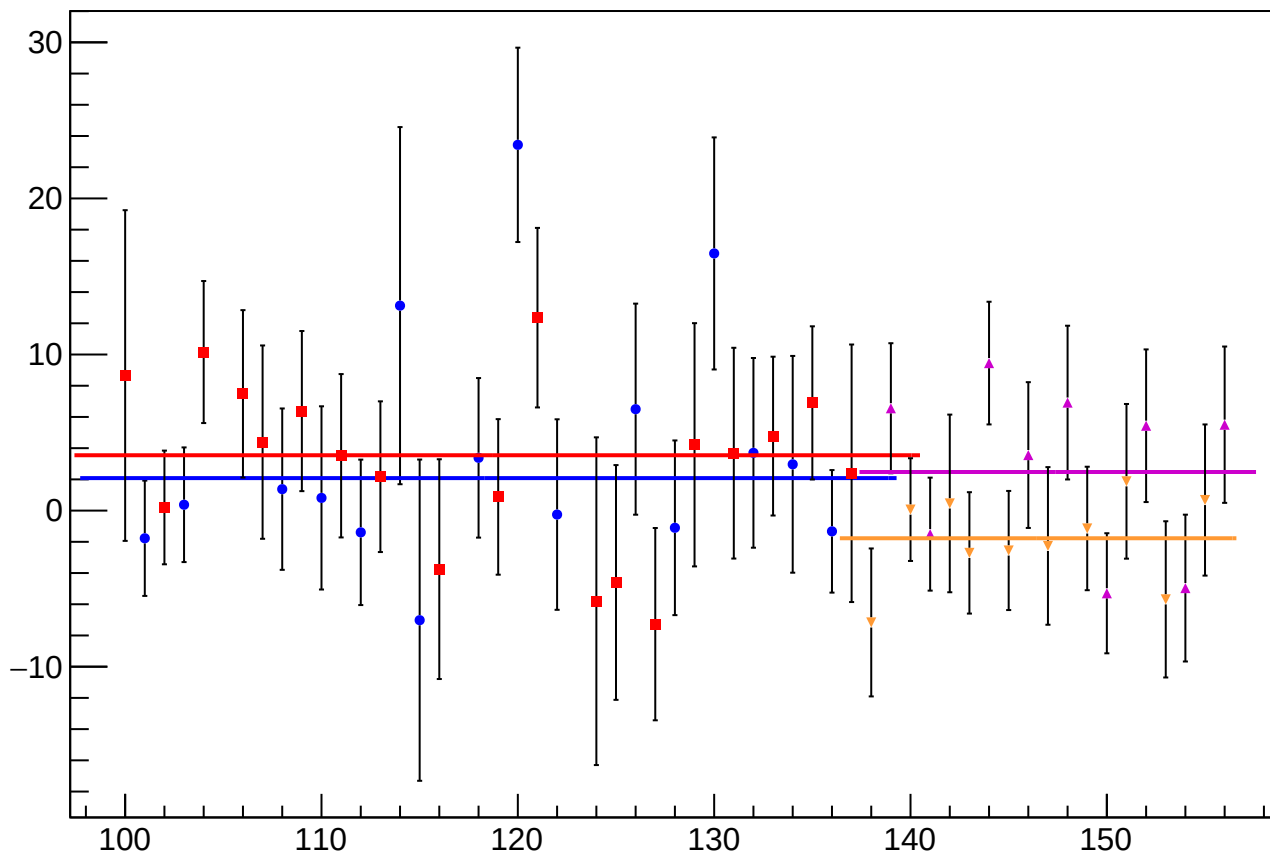
Right: 10272.667 $\pm$ 1.976 χ^2/NDF : 2163082.8/34

In: 6789.325 $\pm$ 1.309 χ^2/NDF : 2994242.0/24

Out: 6744.662 $\pm$ 1.302 χ^2/NDF : 3595697.0/28

All: 6766.865 $\pm$ 0.923 χ^2/NDF : 6590524.3/53

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 2.082 $\pm$ 1.345 χ^2/NDF : 21.0/15

Left Out: -1.772 $\pm$ 1.375 χ^2/NDF : 3.3/9

Right Out: 3.546 $\pm$ 1.304 χ^2/NDF : 13.4/18

Left In: 2.473 $\pm$ 1.443 χ^2/NDF : 13.5/8

Left: 0.248 $\pm$ 0.995 χ^2/NDF : 21.3/18

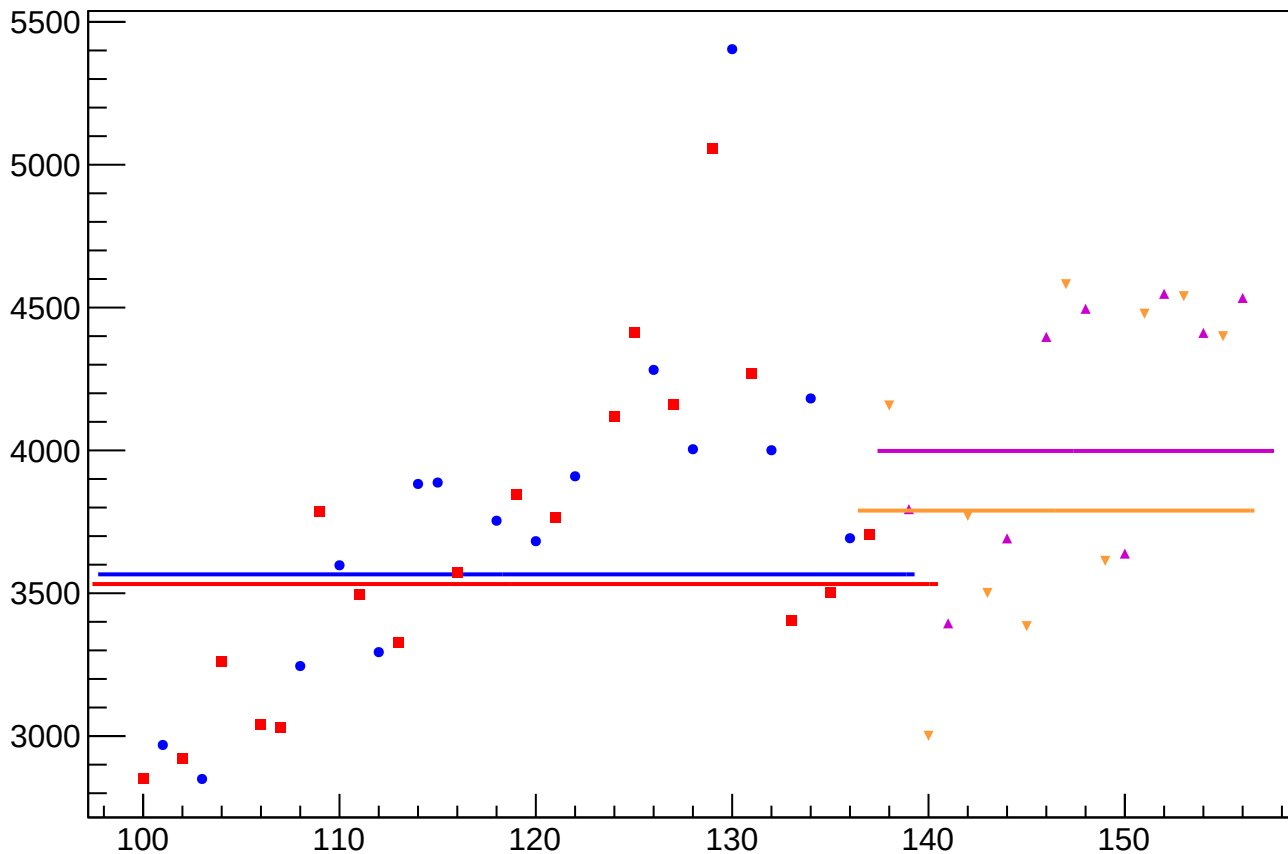
Right: 2.837 $\pm$ 0.936 χ^2/NDF : 35.0/34

In: 2.264 $\pm$ 0.984 χ^2/NDF : 34.5/24

Out: 1.028 $\pm$ 0.946 χ^2/NDF : 24.6/28

All: 1.622 $\pm$ 0.682 χ^2/NDF : 59.9/53

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3566.150 $\pm$ 0.951 χ^2/NDF : 341105.5/15

Left Out: 3789.388 $\pm$ 0.972 χ^2/NDF : 328991.9/9

Right Out: 3532.189 $\pm$ 0.922 χ^2/NDF : 278693.0/18

Left In: 3998.091 $\pm$ 1.020 χ^2/NDF : 188592.9/8

Left: 3888.699 $\pm$ 0.704 χ^2/NDF : 539512.8/18

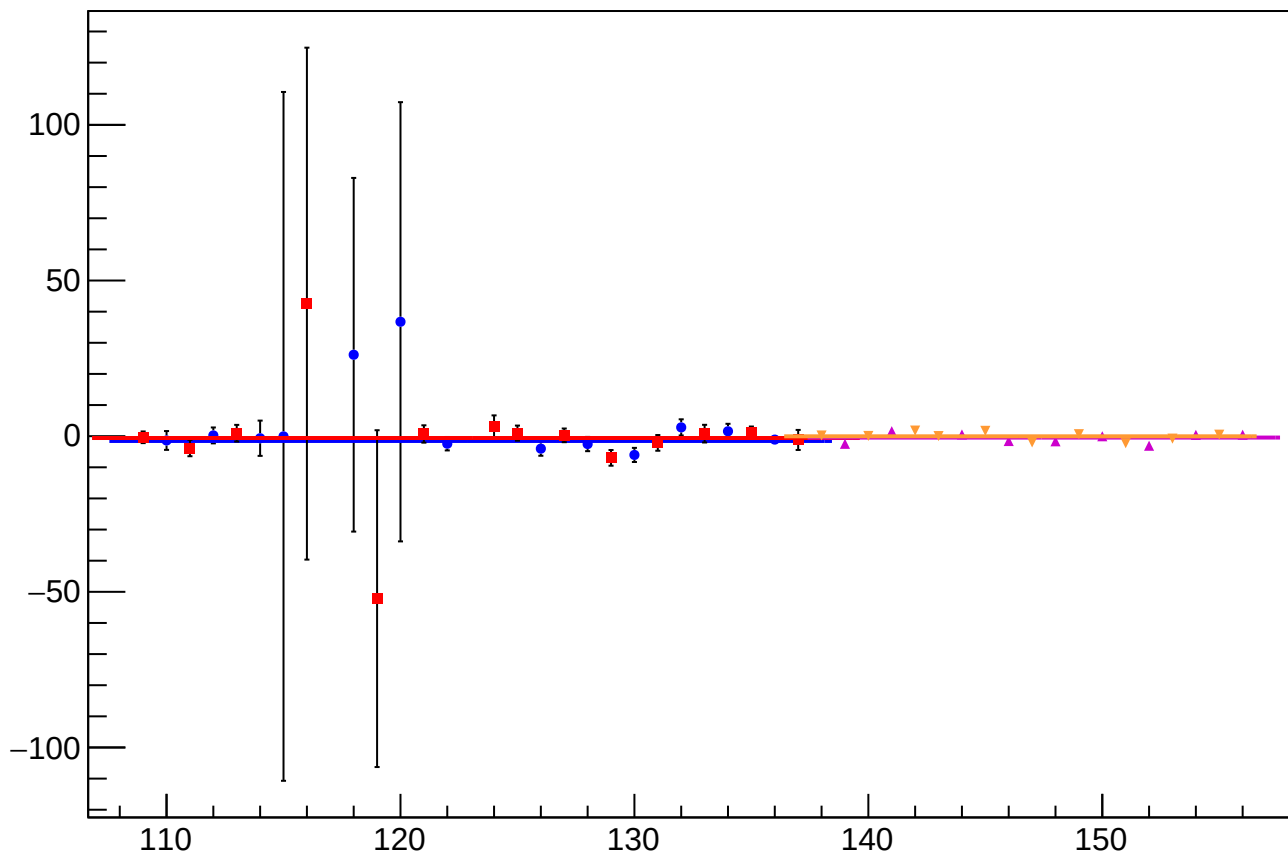
Right: 3548.642 $\pm$ 0.662 χ^2/NDF : 620455.5/34

In: 3767.003 $\pm$ 0.696 χ^2/NDF : 625569.1/24

Out: 3654.001 $\pm$ 0.669 χ^2/NDF : 644524.7/28

All: 3708.290 $\pm$ 0.482 χ^2/NDF : 1283797.8/53

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.536 ± 0.733 $\chi^2/\text{NDF}: 11.1/12$

Left Out: -0.044 ± 0.360 $\chi^2/\text{NDF}: 11.8/9$

Right Out: -0.588 ± 0.717 $\chi^2/\text{NDF}: 12.7/13$

Left In: -0.448 ± 0.361 $\chi^2/\text{NDF}: 17.4/8$

Left: -0.245 ± 0.255 $\chi^2/\text{NDF}: 29.9/18$

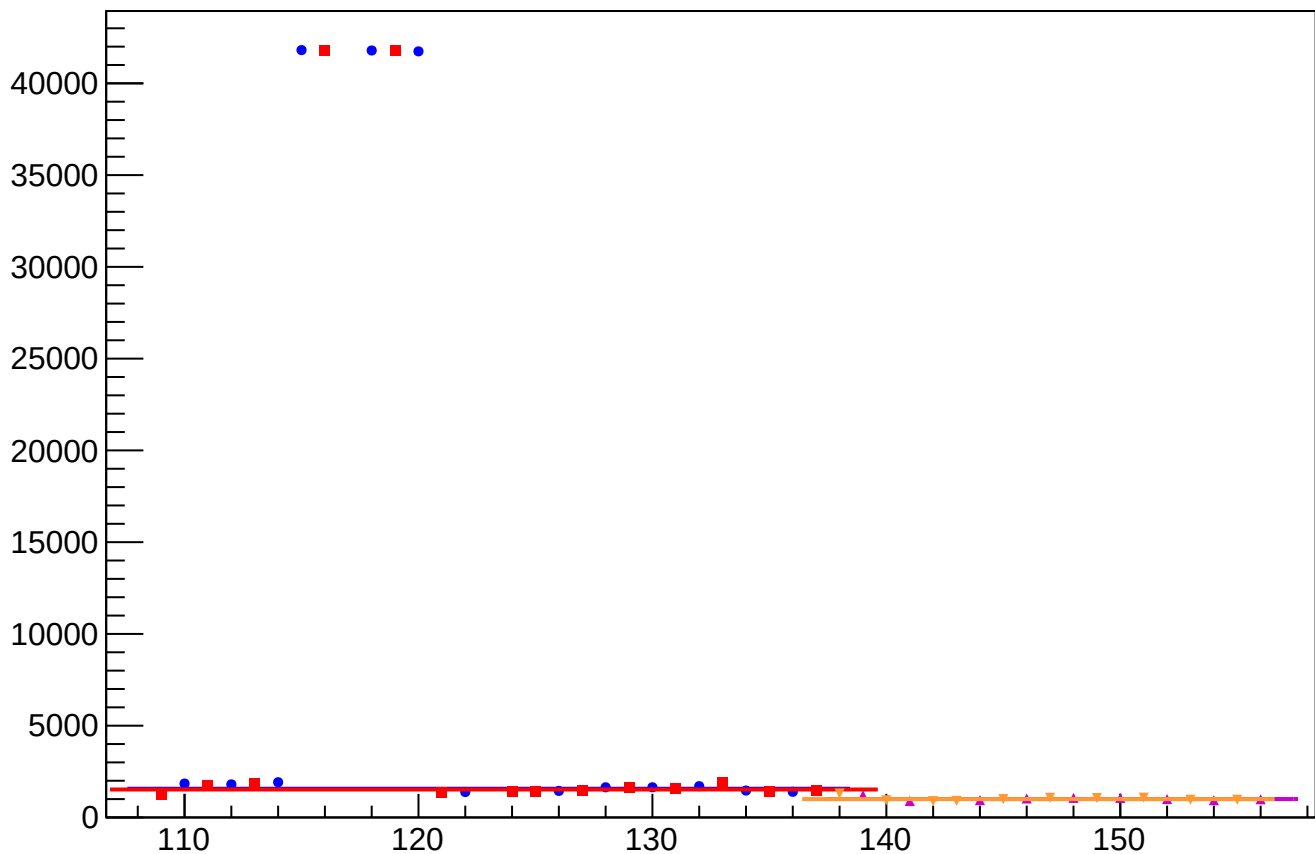
Right: -1.051 ± 0.512 $\chi^2/\text{NDF}: 24.6/26$

In: -0.660 ± 0.324 $\chi^2/\text{NDF}: 30.3/21$

Out: -0.153 ± 0.322 $\chi^2/\text{NDF}: 25.0/23$

All: -0.405 ± 0.228 $\chi^2/\text{NDF}: 56.5/45$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1564.307 $\pm$ 0.518 χ^2 /NDF: 2016990.6/12

Left Out: 1000.573 $\pm$ 0.254 χ^2 /NDF: 146602.8/9

Right Out: 1523.678 $\pm$ 0.507 χ^2 /NDF: 1739658.0/13

Left In: 1003.688 $\pm$ 0.255 χ^2 /NDF: 104124.7/8

Left: 1002.127 $\pm$ 0.180 χ^2 /NDF: 250802.4/18

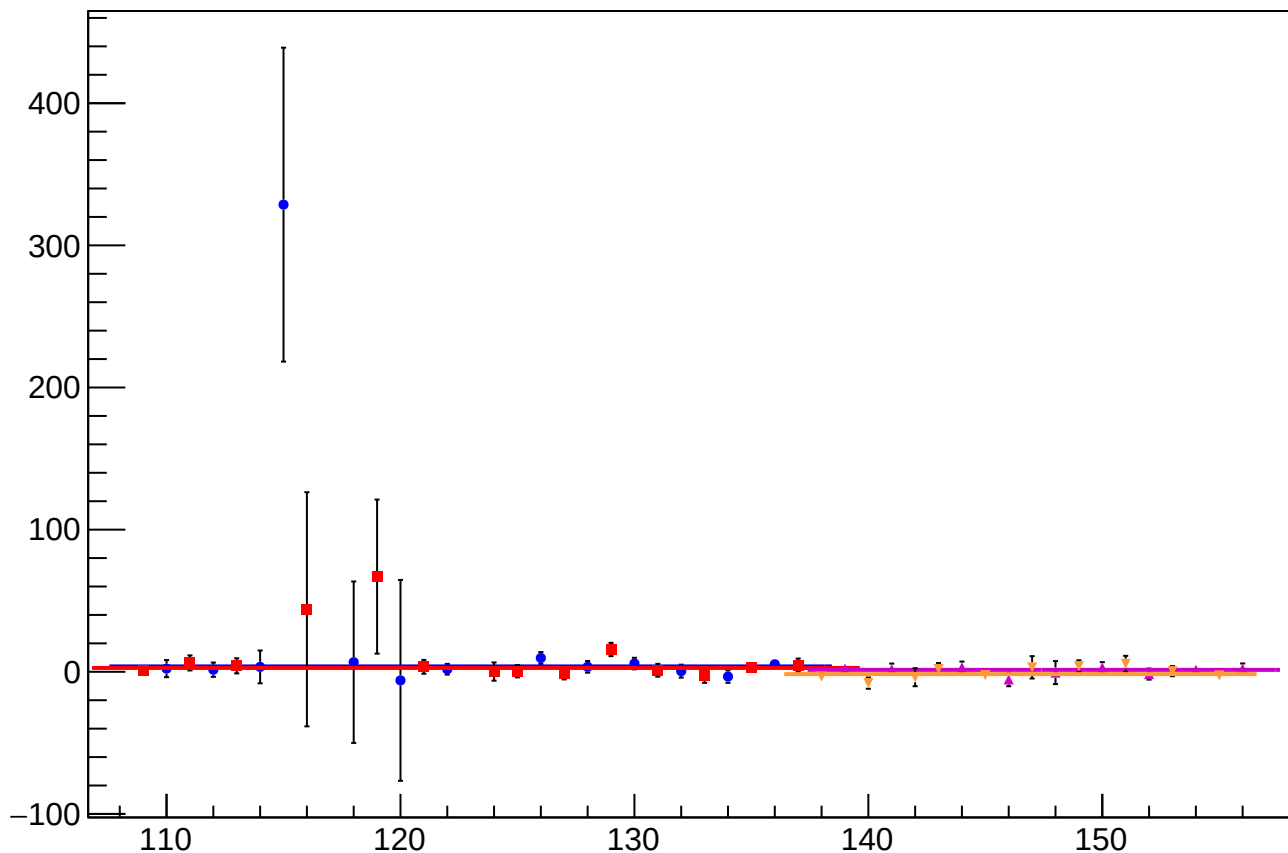
Right: 1543.555 $\pm$ 0.362 χ^2 /NDF: 3759789.5/26

In: 1113.043 $\pm$ 0.229 χ^2 /NDF: 3063569.0/21

Out: 1105.764 $\pm$ 0.227 χ^2 /NDF: 2736519.7/23

All: 1109.380 $\pm$ 0.161 χ^2 /NDF: 5800597.9/45

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.777 ± 1.248 $\chi^2/\text{NDF}: 15.2/12$

Left Out: -1.641 ± 1.178 $\chi^2/\text{NDF}: 8.3/9$

Right Out: 2.709 ± 1.211 $\chi^2/\text{NDF}: 13.6/13$

Left In: 1.362 ± 1.193 $\chi^2/\text{NDF}: 3.3/8$

Left: -0.158 ± 0.838 $\chi^2/\text{NDF}: 14.8/18$

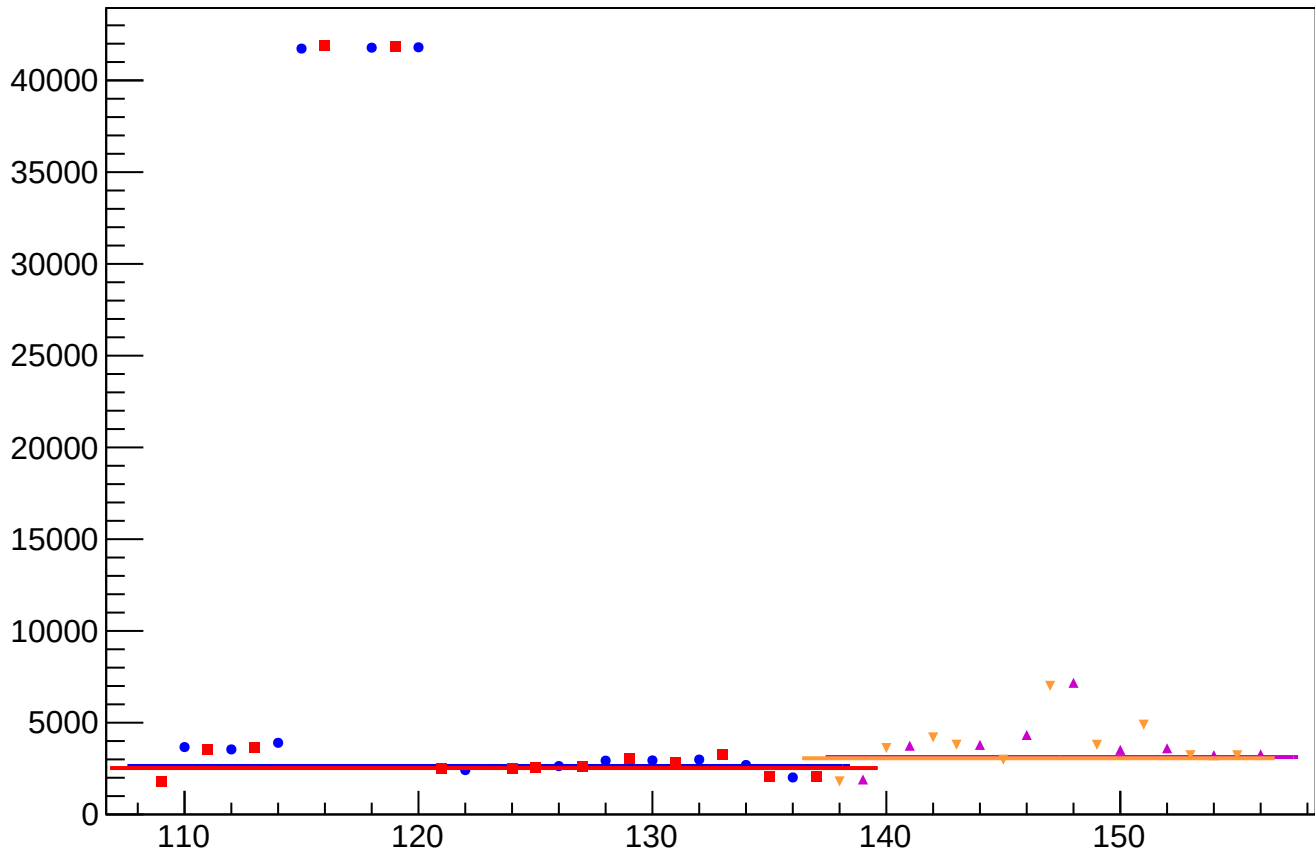
Right: 3.227 ± 0.869 $\chi^2/\text{NDF}: 29.2/26$

In: 2.515 ± 0.863 $\chi^2/\text{NDF}: 20.4/21$

Out: 0.475 ± 0.845 $\chi^2/\text{NDF}: 28.6/23$

All: 1.473 ± 0.603 $\chi^2/\text{NDF}: 51.8/45$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2639.943 $\pm$ 0.883 χ^2 /NDF: 2173395.1/12

Left Out: 3062.016 $\pm$ 0.833 χ^2 /NDF: 1674483.1/9

Right Out: 2529.018 $\pm$ 0.856 χ^2 /NDF: 1949928.1/13

Left In: 3128.665 $\pm$ 0.844 χ^2 /NDF: 1451781.9/8

Left: 3094.926 $\pm$ 0.593 χ^2 /NDF: 3129424.2/18

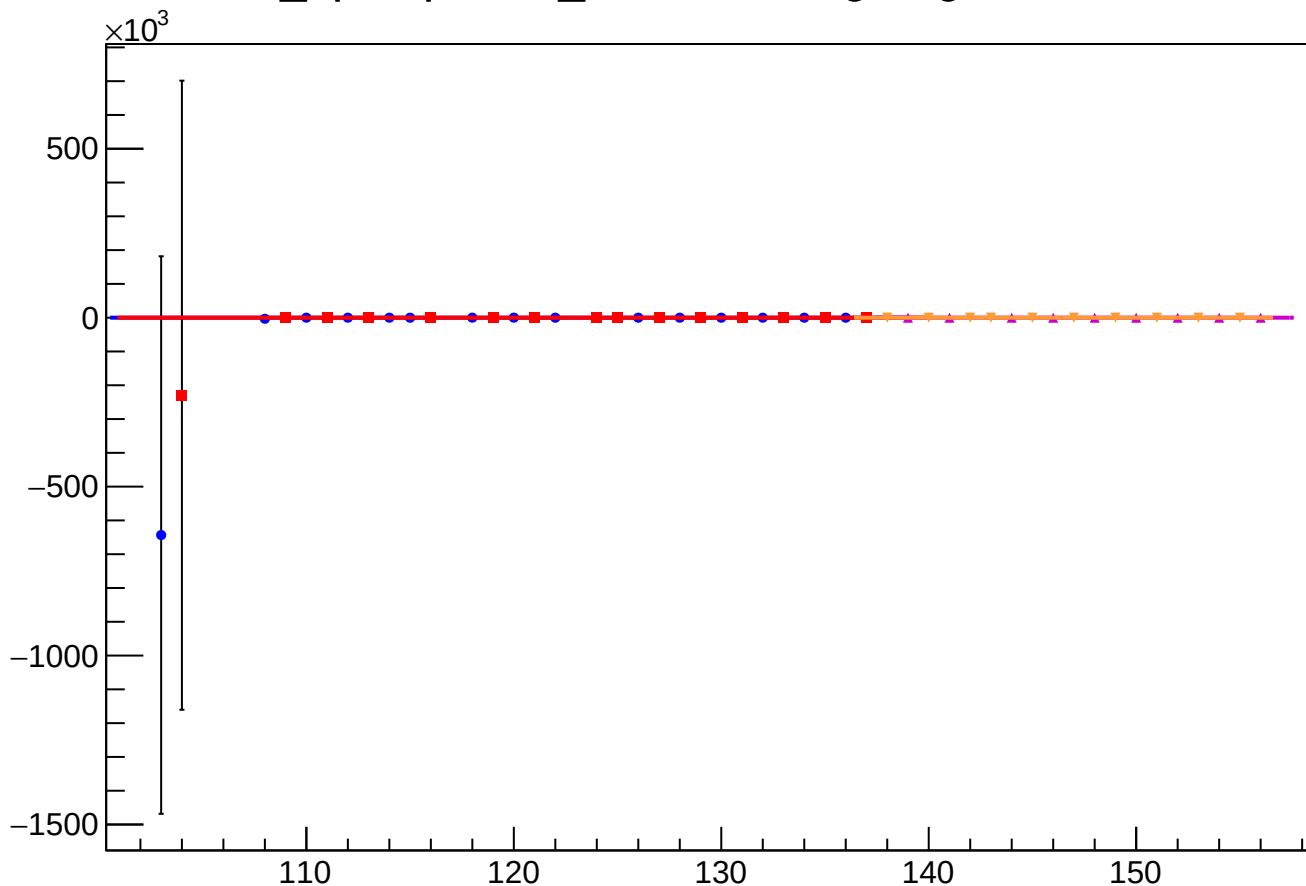
Right: 2582.794 $\pm$ 0.615 χ^2 /NDF: 4131459.2/26

In: 2895.350 $\pm$ 0.610 χ^2 /NDF: 3785377.8/21

Out: 2802.783 $\pm$ 0.597 χ^2 /NDF: 3823432.0/23

All: 2848.089 $\pm$ 0.427 χ^2 /NDF: 7620570.9/45

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.215 ± 1.125 χ^2/NDF : 18.8/14

Left Out: -2.040 ± 0.567 χ^2/NDF : 23.1/9

Right Out: 2.670 ± 1.211 χ^2/NDF : 14.4/14

Left In: 0.215 ± 0.575 χ^2/NDF : 11.2/8

Left: -0.928 ± 0.404 χ^2/NDF : 42.0/18

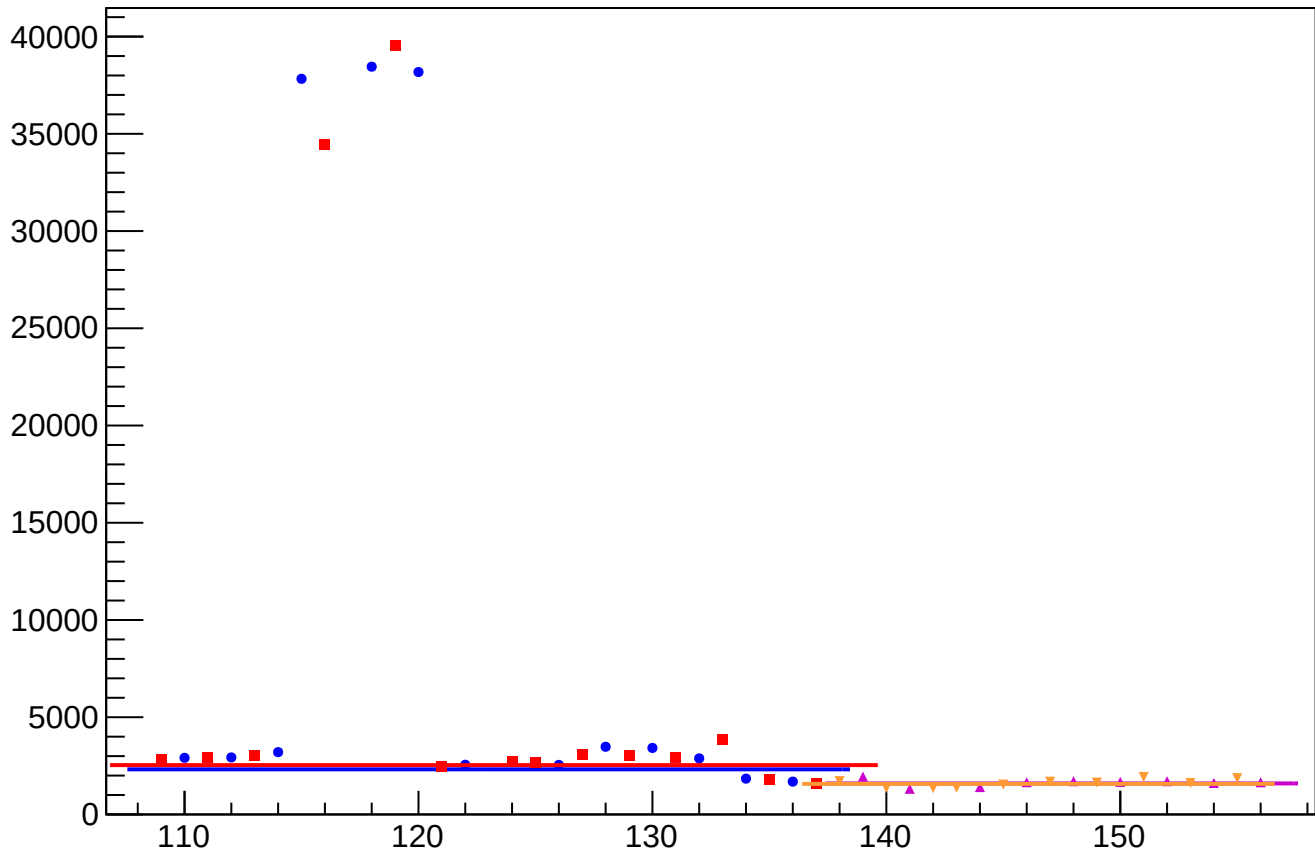
Right: 0.585 ± 0.824 χ^2/NDF : 38.7/29

In: -0.081 ± 0.512 χ^2/NDF : 31.2/23

Out: -1.193 ± 0.514 χ^2/NDF : 49.9/24

All: -0.635 ± 0.363 χ^2/NDF : 83.5/48

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2320.446 $\pm$ 0.796 χ^2 /NDF: 2461445.1/12

Left Out: 1572.839 $\pm$ 0.401 χ^2 /NDF:216225.7/9

Right Out: 2537.615 $\pm$ 0.856 χ^2 /NDF: 2038153.2/13

Left In: 1594.812 $\pm$ 0.407 χ^2 /NDF:186311.9/8

Left: 1583.679 $\pm$ 0.286 χ^2 /NDF: 404018.0/18

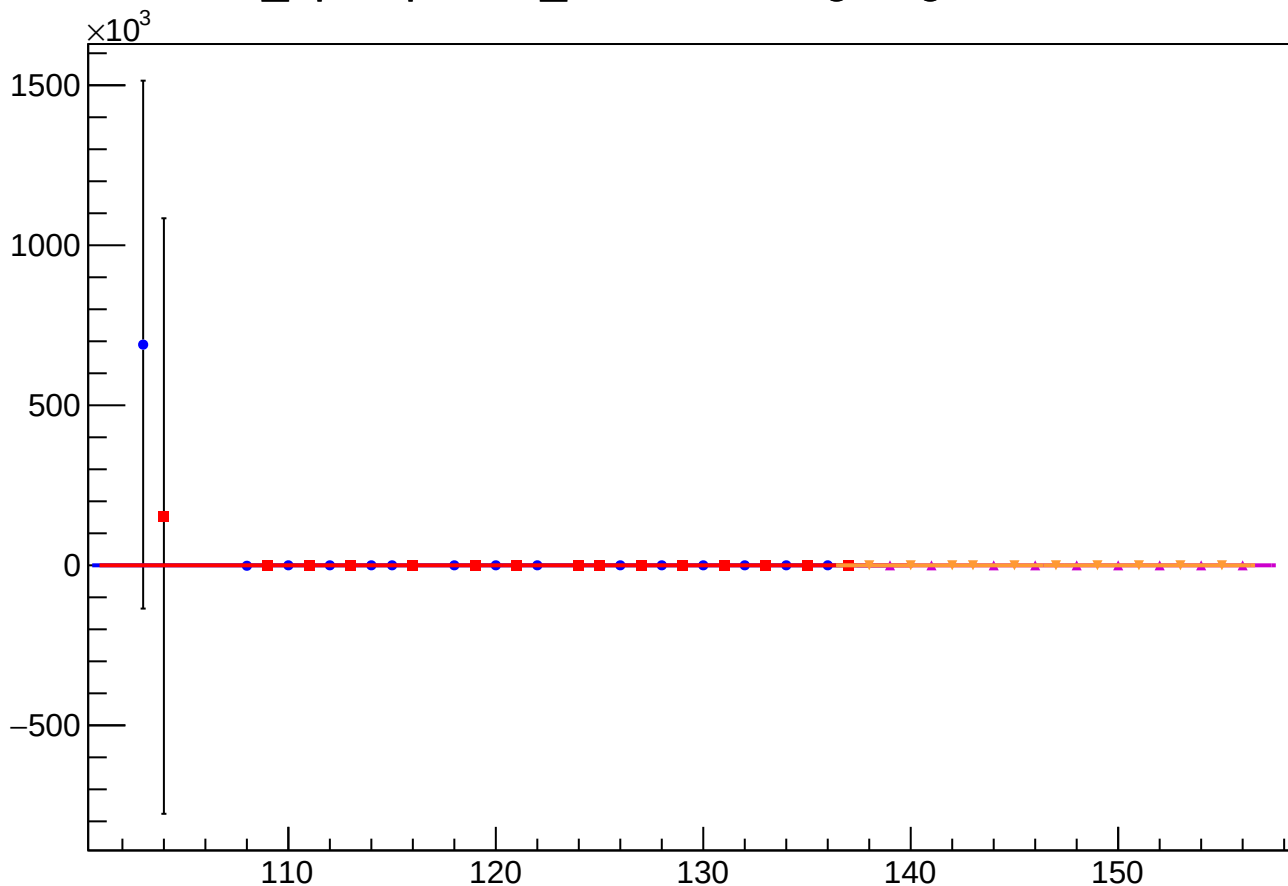
Right: 2421.061 $\pm$ 0.583 χ^2 /NDF: 4534110.8/26

In: 1745.004 $\pm$ 0.362 χ^2 /NDF:3307284.6/21

Out: 1746.396 $\pm$ 0.363 χ^2 /NDF:3295188.0/23

All: 1745.698 $\pm$ 0.256 χ^2 /NDF: 6602480.0/45

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.708 $\pm$ 1.076 χ^2 /NDF: 5.0/14

Left Out: -0.542 $\pm$ 0.782 χ^2 /NDF:10.6/9

Right Out: 1.893 $\pm$ 1.052 χ^2 /NDF: 15.3/14

Left In: -0.068 $\pm$ 0.740 χ^2 /NDF:3.8/8

Left: -0.292 $\pm$ 0.537 χ^2 /NDF: 14.6/18

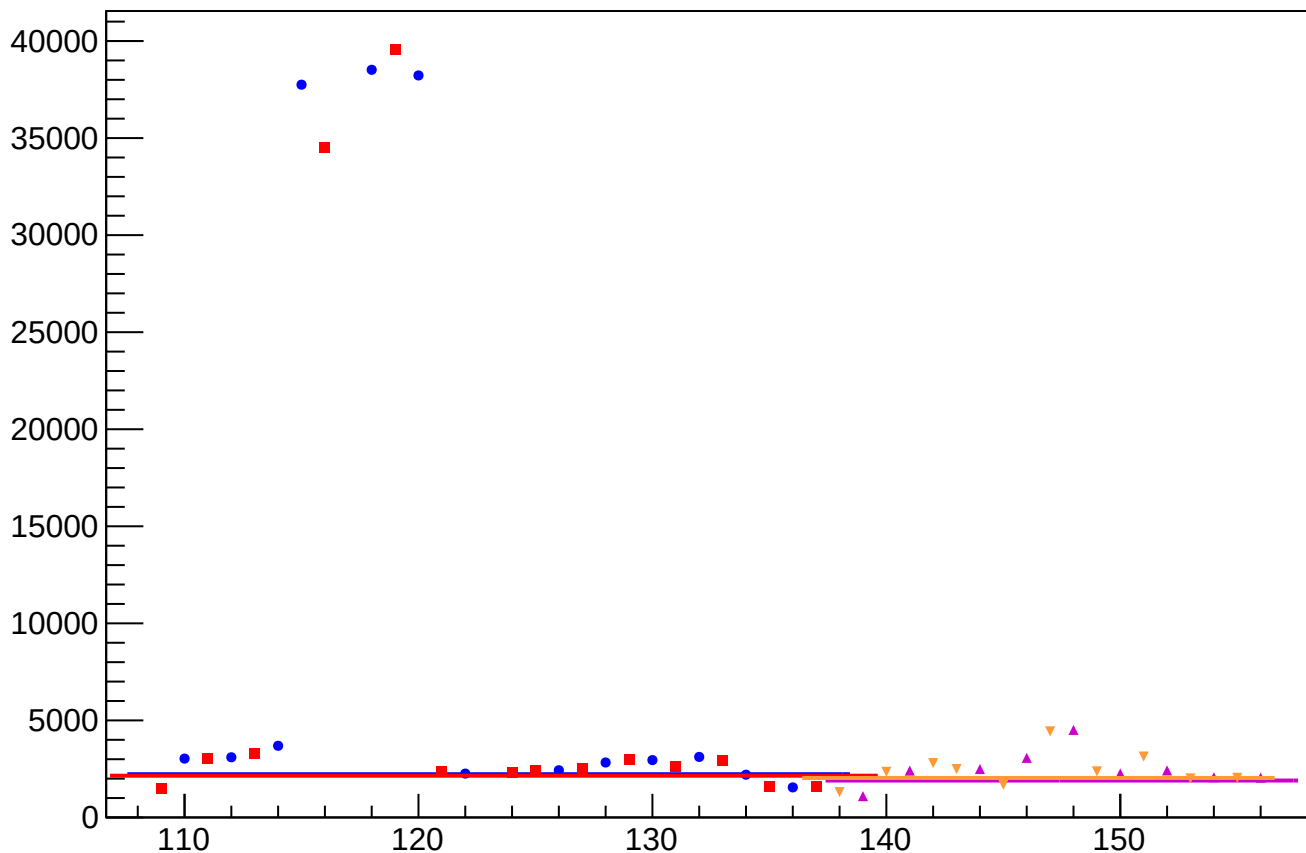
Right: 1.803 $\pm$ 0.752 χ^2 /NDF: 20.3/29

In: 0.502 $\pm$ 0.610 χ^2 /NDF:10.7/23

Out: 0.324 $\pm$ 0.627 χ^2 /NDF:29.4/24

All: 0.415 $\pm$ 0.437 χ^2 /NDF: 40.1/48

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2226.944 ± 0.761 $\chi^2/\text{NDF}: 2522286.5/12$

Left Out: 2034.077 ± 0.553 $\chi^2/\text{NDF}: 1308239.6/9$

Right Out: 2150.841 ± 0.744 $\chi^2/\text{NDF}: 2231322.0/13$

Left In: 1902.196 ± 0.523 $\chi^2/\text{NDF}: 1992145.5/8$

Left: 1964.536 ± 0.380 $\chi^2/\text{NDF}: 3330417.5/18$

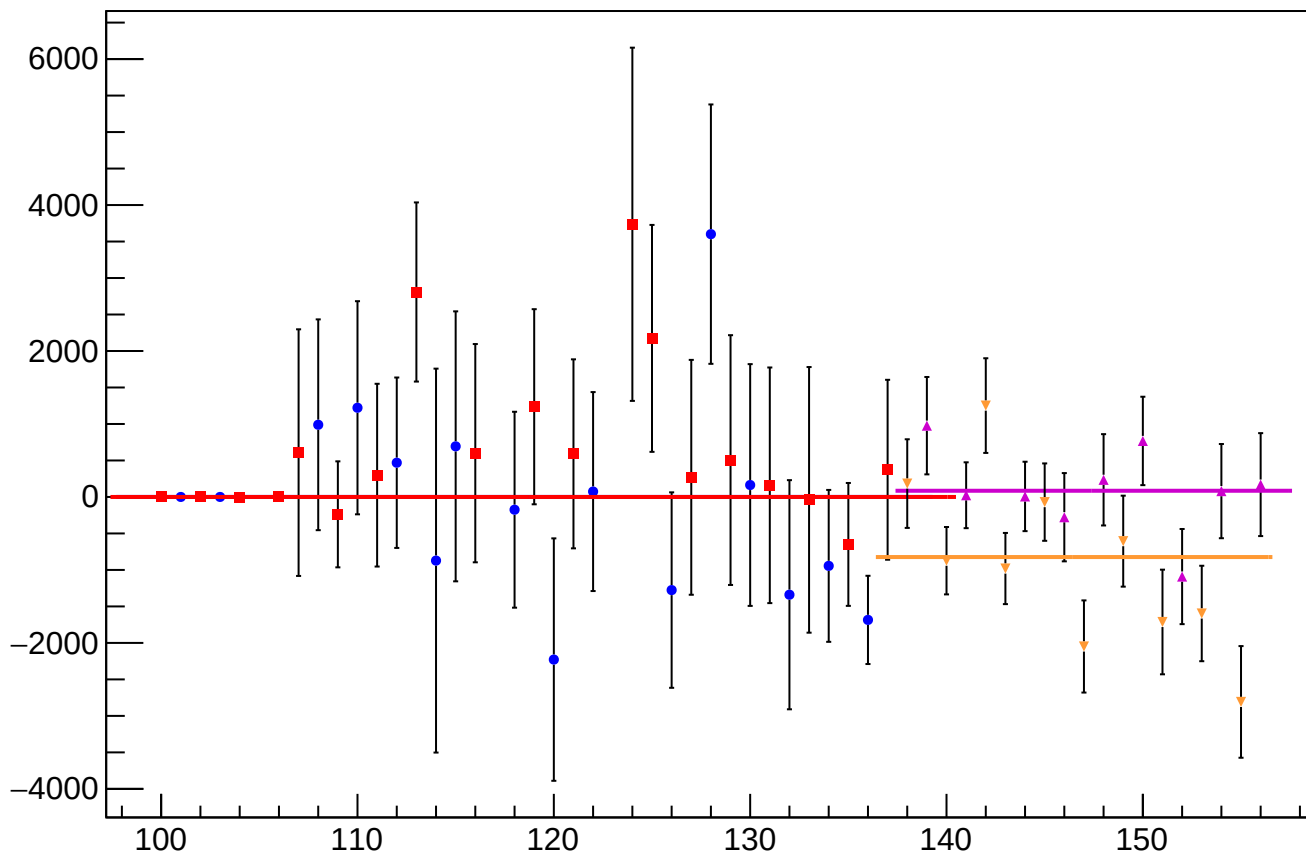
Right: 2188.011 ± 0.532 $\chi^2/\text{NDF}: 4758723.2/26$

In: 2006.411 ± 0.431 $\chi^2/\text{NDF}: 4638060.2/21$

Out: 2075.614 ± 0.444 $\chi^2/\text{NDF}: 3555443.6/23$

All: 2040.032 ± 0.309 $\chi^2/\text{NDF}: 8206019.6/45$

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.255 $\pm$ 0.356 χ^2/NDF : 17.7/15

Left Out: -823.410 $\pm$ 186.939 χ^2/NDF : 28.7/9

Right Out: -0.096 $\pm$ 0.328 χ^2/NDF : 15.4/18

Left In: 84.971 $\pm$ 194.767 χ^2/NDF : 6.8/8

Left: -387.843 $\pm$ 134.868 χ^2/NDF : 46.8/18

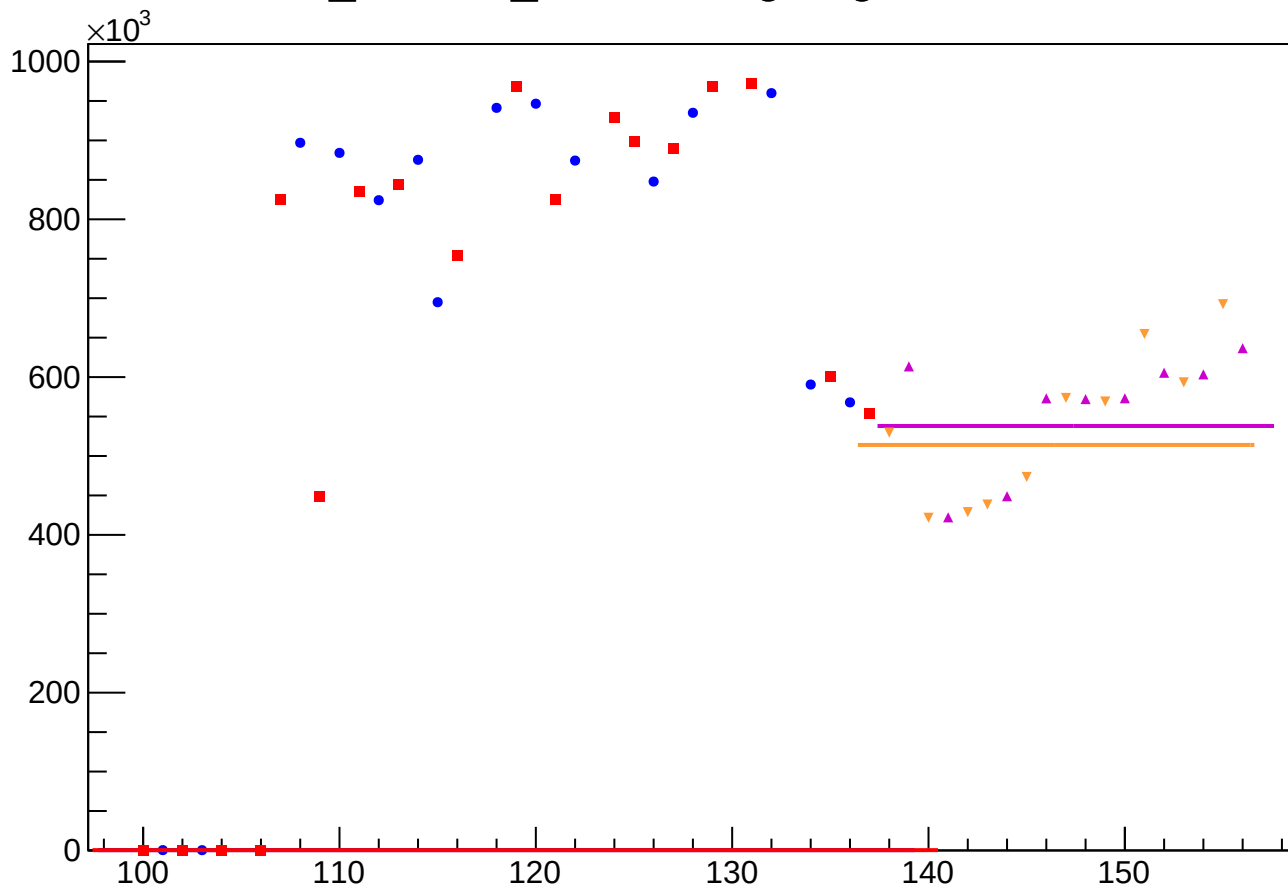
Right: 0.065 $\pm$ 0.241 χ^2/NDF : 33.7/34

In: 0.256 $\pm$ 0.356 χ^2/NDF : 24.7/24

Out: -0.098 $\pm$ 0.328 χ^2/NDF : 63.5/28

All: 0.064 $\pm$ 0.241 χ^2/NDF : 88.7/53

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 398.881 $\pm$ 0.251 χ^2 /NDF: 8491830.9/14

Left Out: 513999.617 $\pm$ 132.185 χ^2 /NDF: 424040.8/9

Right Out: 393.240 $\pm$ 0.232 χ^2 /NDF: 7648578.2/17

Left In: 538041.680 $\pm$ 137.721 χ^2 /NDF: 327900.8/8

Left: 525527.747 $\pm$ 95.366 χ^2 /NDF: 767803.8/18

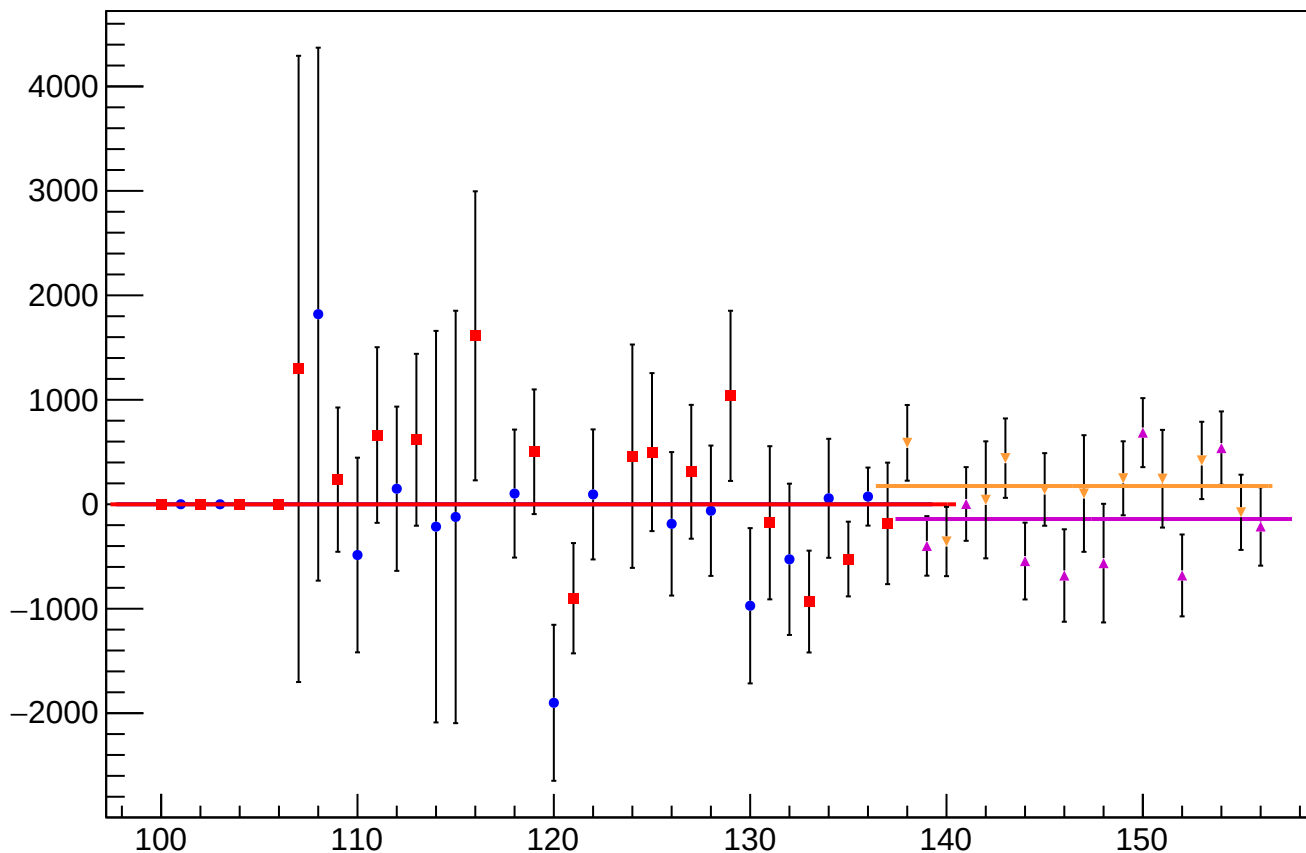
Right: 395.831 $\pm$ 0.170 χ^2 /NDF: 16140681.1/32

In: 400.674 $\pm$ 0.251 χ^2 /NDF: 24059686.2/23

Out: 394.819 $\pm$ 0.232 χ^2 /NDF: 23169662.3/27

All: 397.508 $\pm$ 0.170 χ^2 /NDF: 47229641.5/53

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.347 χ^2/NDF : 10.5/15

Left Out: 174.604 ± 123.218 χ^2/NDF : 5.4/9

Right Out: -0.599 ± 0.324 χ^2/NDF : 15.0/18

Left In: -141.215 ± 122.334 χ^2/NDF : 16.2/8

Left: 15.556 ± 86.814 χ^2/NDF : 24.9/18

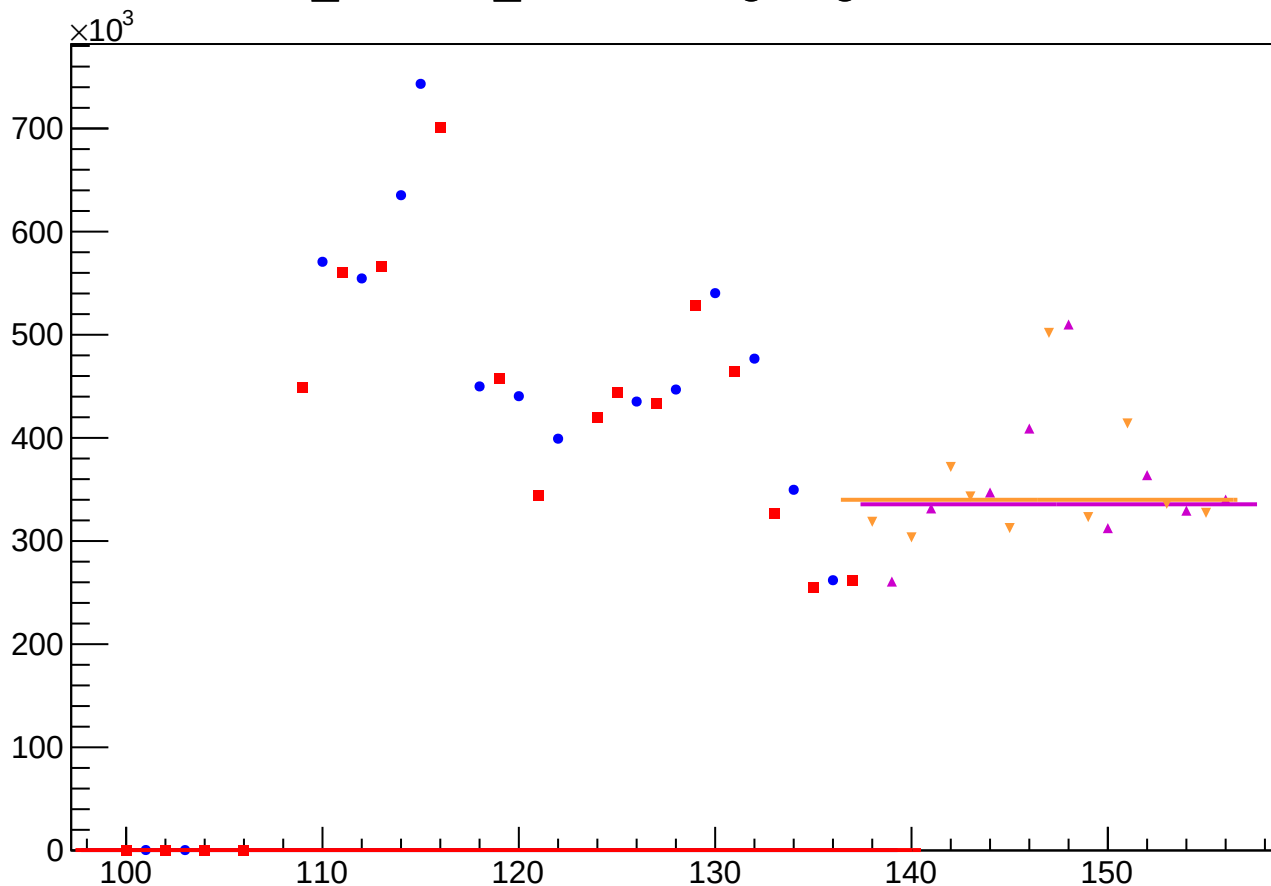
Right: -0.330 ± 0.237 χ^2/NDF : 27.0/34

In: -0.022 ± 0.347 χ^2/NDF : 28.0/24

Out: -0.598 ± 0.324 χ^2/NDF : 22.5/28

All: -0.330 ± 0.237 χ^2/NDF : 51.9/53

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 390.276 ± 0.245 $\chi^2/\text{NDF}: 11132240.7/14$

Left Out: 340002.167 ± 87.129 $\chi^2/\text{NDF}: 275494.5/9$

Right Out: 387.984 ± 0.229 $\chi^2/\text{NDF}: 11074302.3/17$

Left In: 335614.410 ± 86.513 $\chi^2/\text{NDF}: 404846.3/8$

Left: 337792.731 ± 61.390 $\chi^2/\text{NDF}: 681617.8/18$

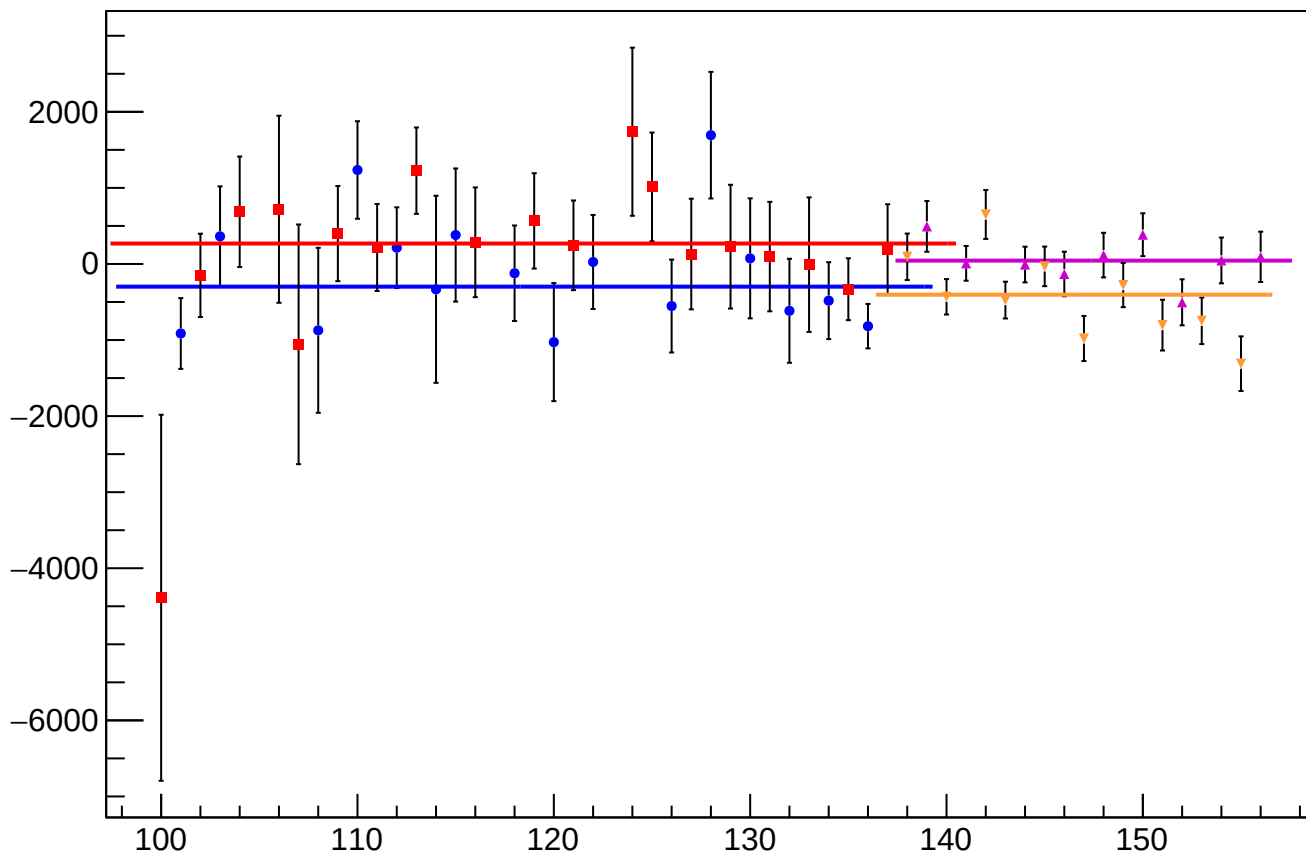
Right: 389.050 ± 0.167 $\chi^2/\text{NDF}: 22206589.6/32$

In: 392.974 ± 0.245 $\chi^2/\text{NDF}: 26551409.0/23$

Out: 390.329 ± 0.229 $\chi^2/\text{NDF}: 26542937.6/27$

All: 391.560 ± 0.167 $\chi^2/\text{NDF}: 53094408.7/50$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -298.263 ± 147.367 χ^2/NDF : 21.2/15

Left Out: -403.954 ± 90.781 χ^2/NDF : 28.6/9

Right Out: 268.892 ± 156.582 χ^2/NDF : 13.9/18

Left In: 44.036 ± 93.926 χ^2/NDF : 7.1/8

Left: -187.585 ± 65.276 χ^2/NDF : 47.5/18

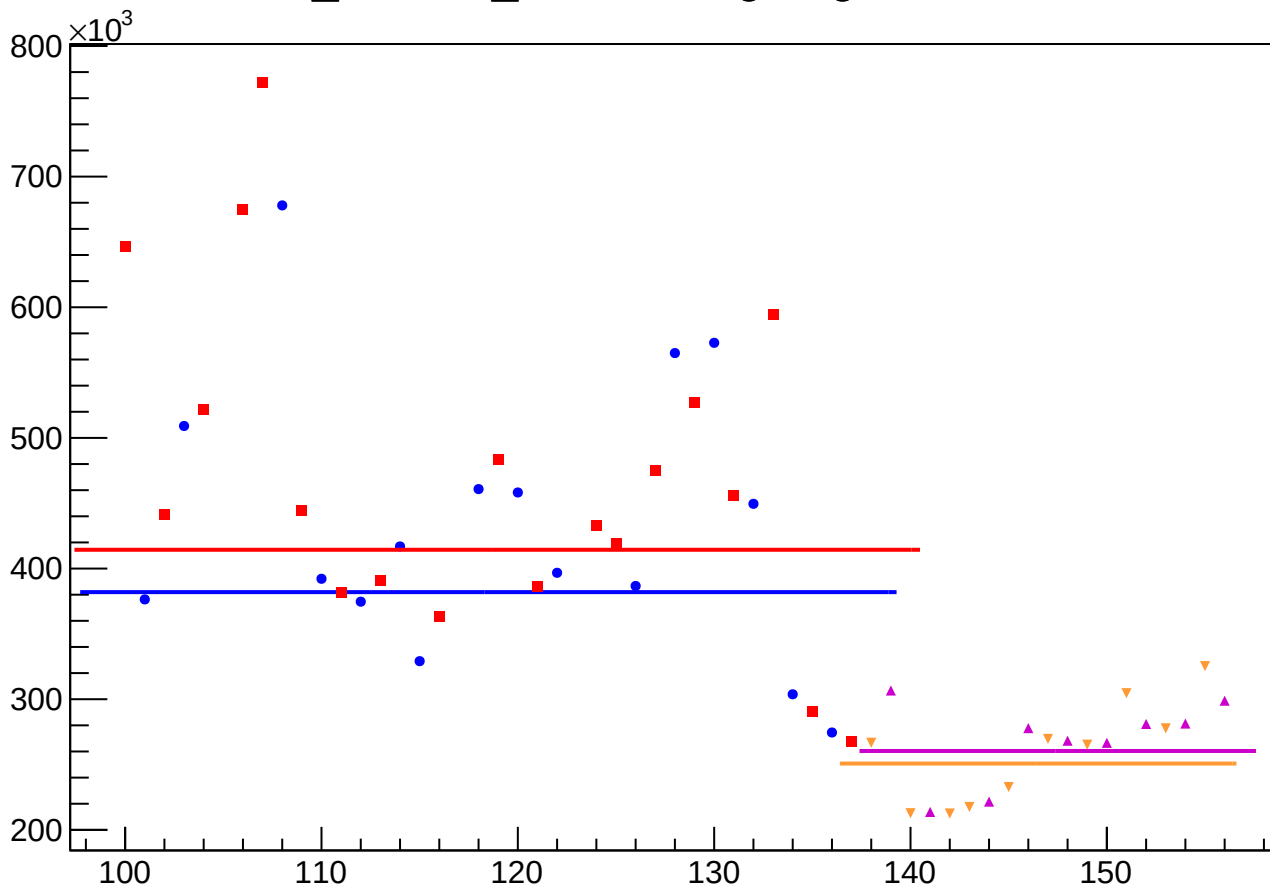
Right: -31.865 ± 107.314 χ^2/NDF : 42.0/34

In: -54.847 ± 79.206 χ^2/NDF : 32.1/24

Out: -234.686 ± 78.536 χ^2/NDF : 56.3/28

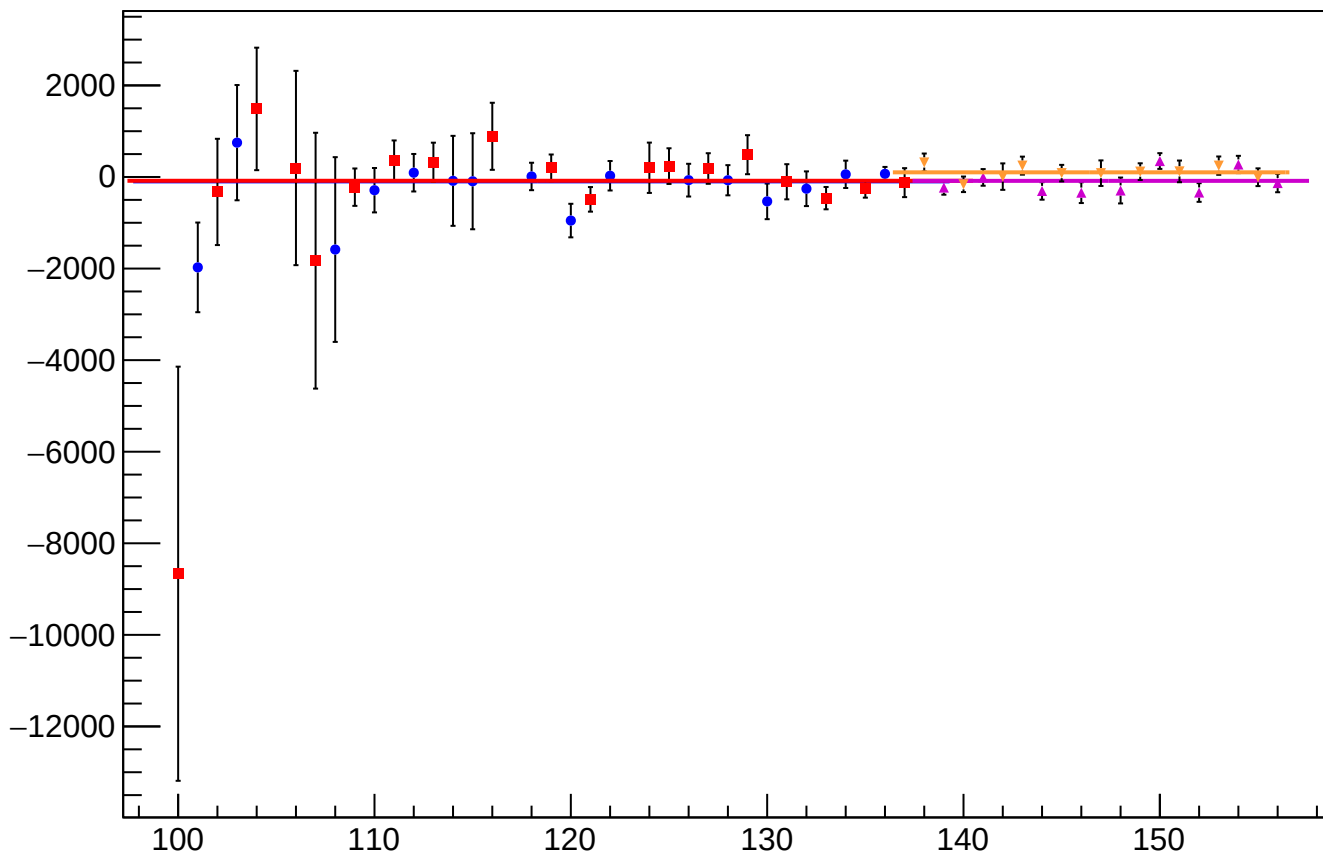
All: -145.530 ± 55.769 χ^2/NDF : 91.0/53

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 381960.471+/-104.223	χ^2/NDF : 836441.6/15	Left: 255408.113+/-46.157	χ^2/NDF : 544448.5/18
Left Out: 250759.824+/-64.192	χ^2/NDF : 301151.2/9	Right: 397186.164+/-75.899	χ^2/NDF : 1641963.2/34
Right Out: 414378.043+/-110.748	χ^2/NDF : 760082.5/18	In: 295496.067+/-56.010	χ^2/NDF : 2036621.6/24
Left In: 260384.092+/-66.416	χ^2/NDF : 232440.6/8	Out: 291905.554+/-55.537	χ^2/NDF : 2695022.1/28
		All: 293685.585+/-39.437	χ^2/NDF : 4733715.

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -95.850 ± 88.267 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 101.793 ± 64.306 $\chi^2/\text{NDF}: 5.1/9$

Right Out: -82.750 ± 87.316 $\chi^2/\text{NDF}: 19.1/18$

Left In: -84.580 ± 64.331 $\chi^2/\text{NDF}: 15.8/8$

Left: 8.643 ± 45.480 $\chi^2/\text{NDF}: 25.1/18$

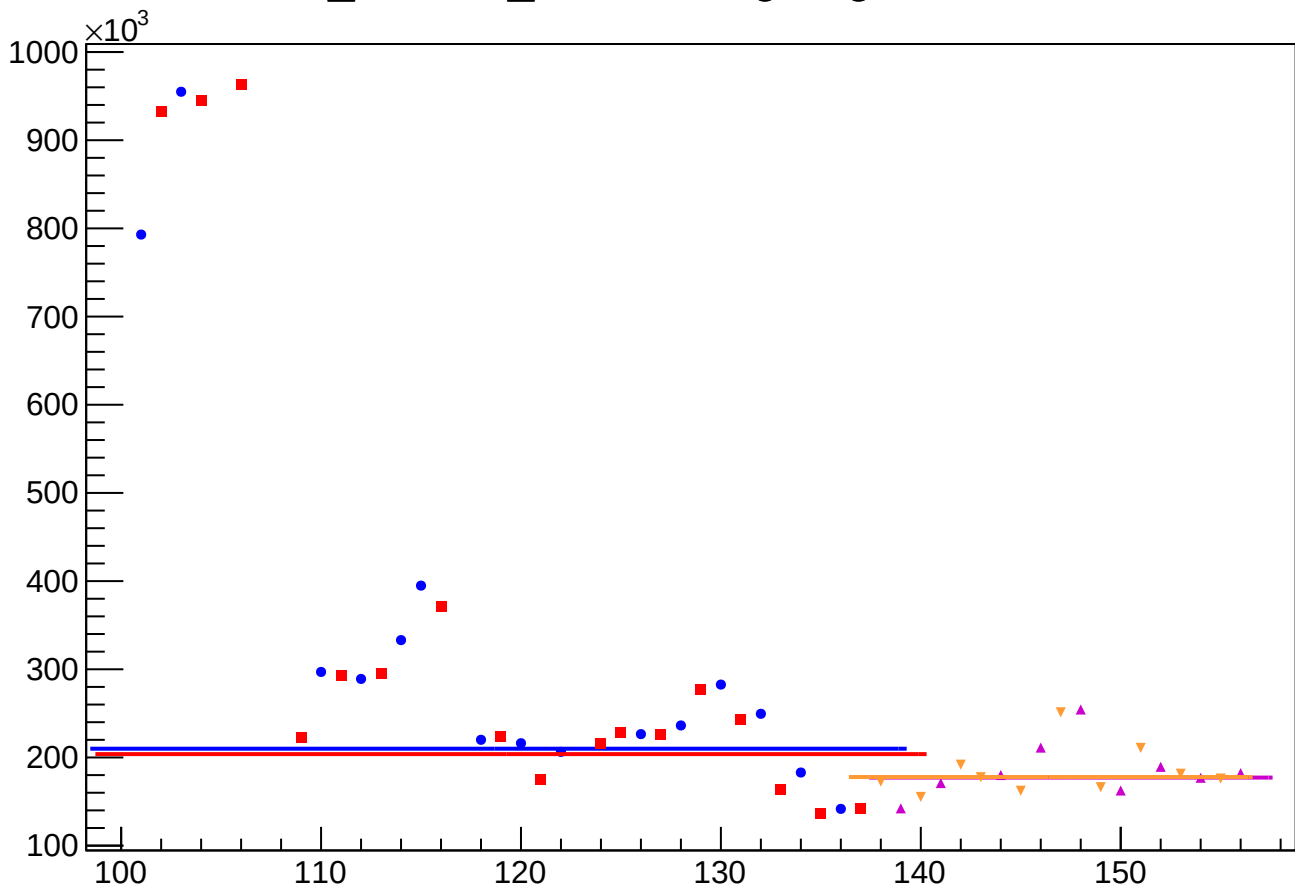
Right: -89.229 ± 62.075 $\chi^2/\text{NDF}: 32.8/34$

In: -88.490 ± 51.988 $\chi^2/\text{NDF}: 29.5/24$

Out: 36.897 ± 51.779 $\chi^2/\text{NDF}: 27.1/28$

All: -25.543 ± 36.687 $\chi^2/\text{NDF}: 59.5/53$

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 209929.195 $\pm$ 62.523

χ^2 /NDF: 1959897.2/14

Left Out: 177803.832 $\pm$ 45.471

χ^2 /NDF: 242488.3/9

Right Out: 203793.382 $\pm$ 61.895

χ^2 /NDF: 2070478.1/16

Left In: 177188.968 $\pm$ 45.489

χ^2 /NDF: 320477.3/8

Left: 177496.521 $\pm$ 32.159

χ^2 /NDF: 563057.0/18

Right: 206830.314 $\pm$ 43.987

χ^2 /NDF: 4035239.4/31

In: 188521.097 $\pm$ 36.783

χ^2 /NDF: 2459675.9/23

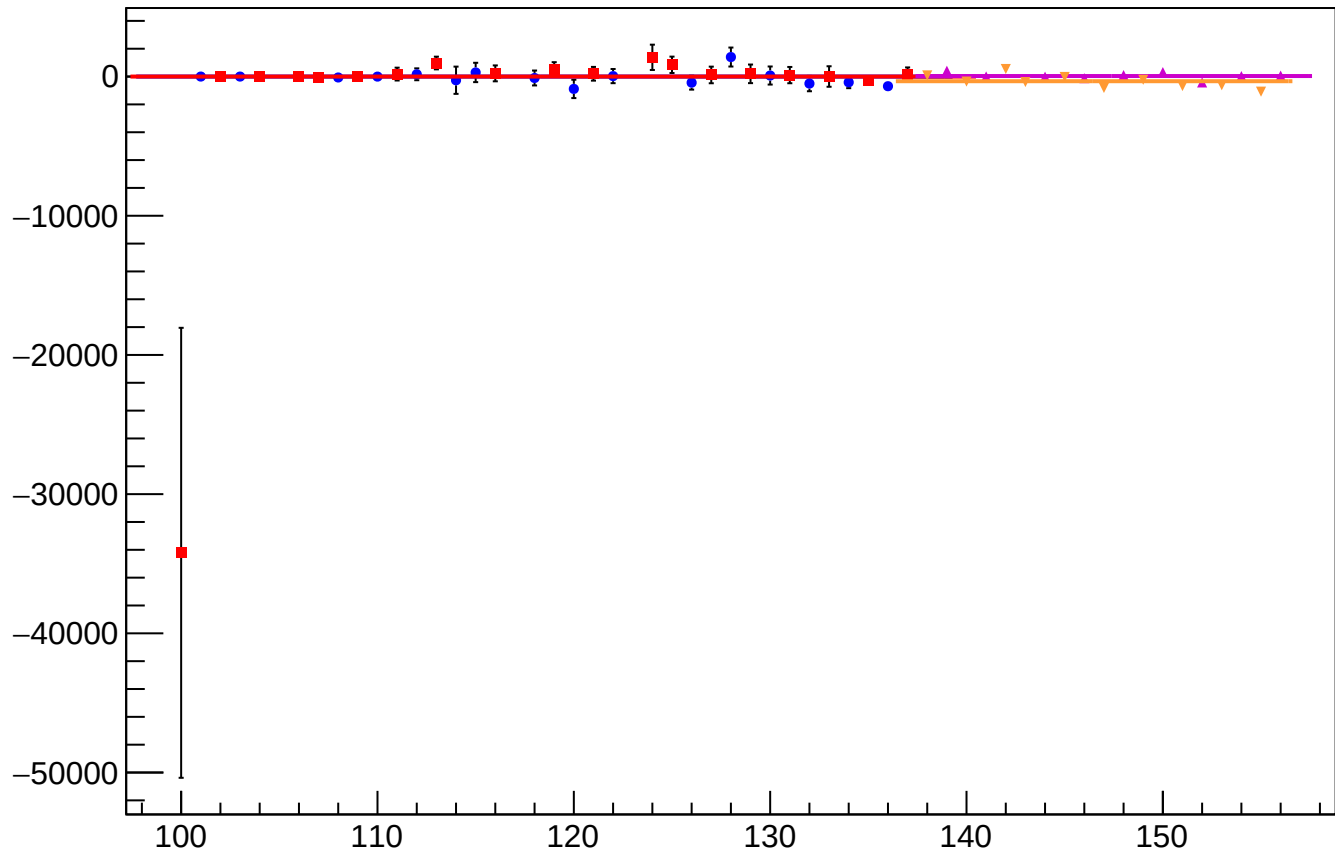
Out: 186913.884 $\pm$ 36.645

χ^2 /NDF: 2427478.7/26

All: 187714.458 $\pm$ 25.961

χ^2 /NDF: 4888112.8/58

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.172 χ^2/NDF : 18.1/15

Left Out: -334.128 ± 75.841 χ^2/NDF : 28.6/9

Right Out: 0.355 ± 0.160 χ^2/NDF : 16.5/18

Left In: 38.196 ± 78.632 χ^2/NDF : 7.1/8

Left: -154.692 ± 54.588 χ^2/NDF : 47.3/18

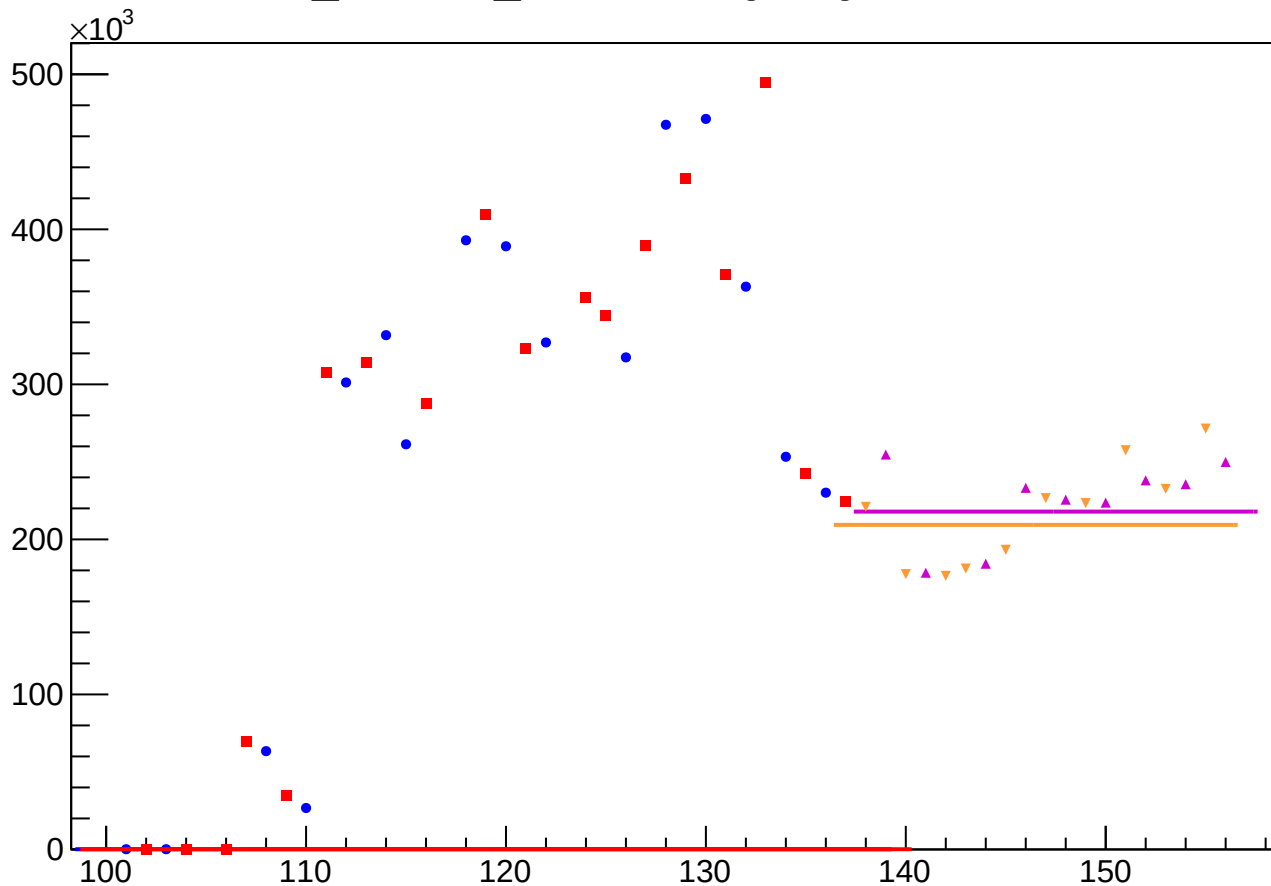
Right: 0.174 ± 0.117 χ^2/NDF : 37.4/34

In: -0.035 ± 0.172 χ^2/NDF : 25.4/24

Out: 0.354 ± 0.160 χ^2/NDF : 64.6/28

All: 0.173 ± 0.117 χ^2/NDF : 92.7/53

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 149.092+/-0.122 χ^2/NDF : 11301940.9/15

Left Out: 209370.281+/-53.627 χ^2/NDF :314840.3/9

Right Out: 149.379+/-0.113 χ^2/NDF : 11288711.4/17

Left In: 217928.539+/-55.601 χ^2/NDF :240042.5/8

Left: 213494.792 ± 38.599 $\chi^2/\text{NDF}: 567156.7/18$

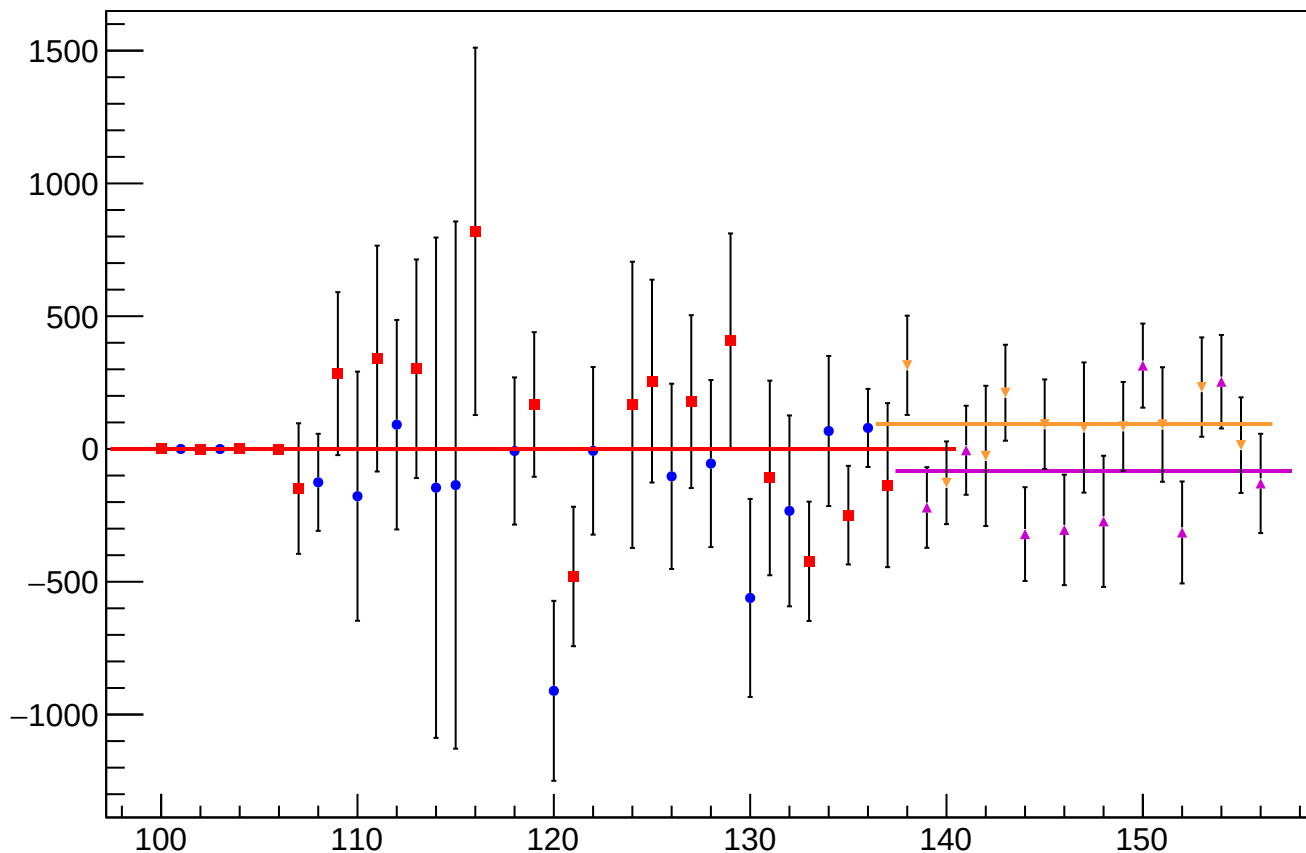
Right: 149.246+/-0.083 χ^2/NDF : 22590655.3/33

In: 150.137+/-0.122 χ^2/NDF :26883218.5/24

Out: 150.311+/-0.113 χ^2/NDF :26824275.6/27

All: 150.231 ± 0.083 $\chi^2/\text{NDF}: 53707495.2/52$

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: -0.068 ± 0.177 χ^2/NDF : 11.2/15

Left Out: 94.042 ± 59.400 χ^2/NDF : 4.8/9

Right Out: -0.126 ± 0.166 χ^2/NDF : 15.2/18

Left In: -82.874 ± 59.923 χ^2/NDF : 16.0/8

Left: 6.359 ± 42.186 χ^2/NDF : 25.2/18

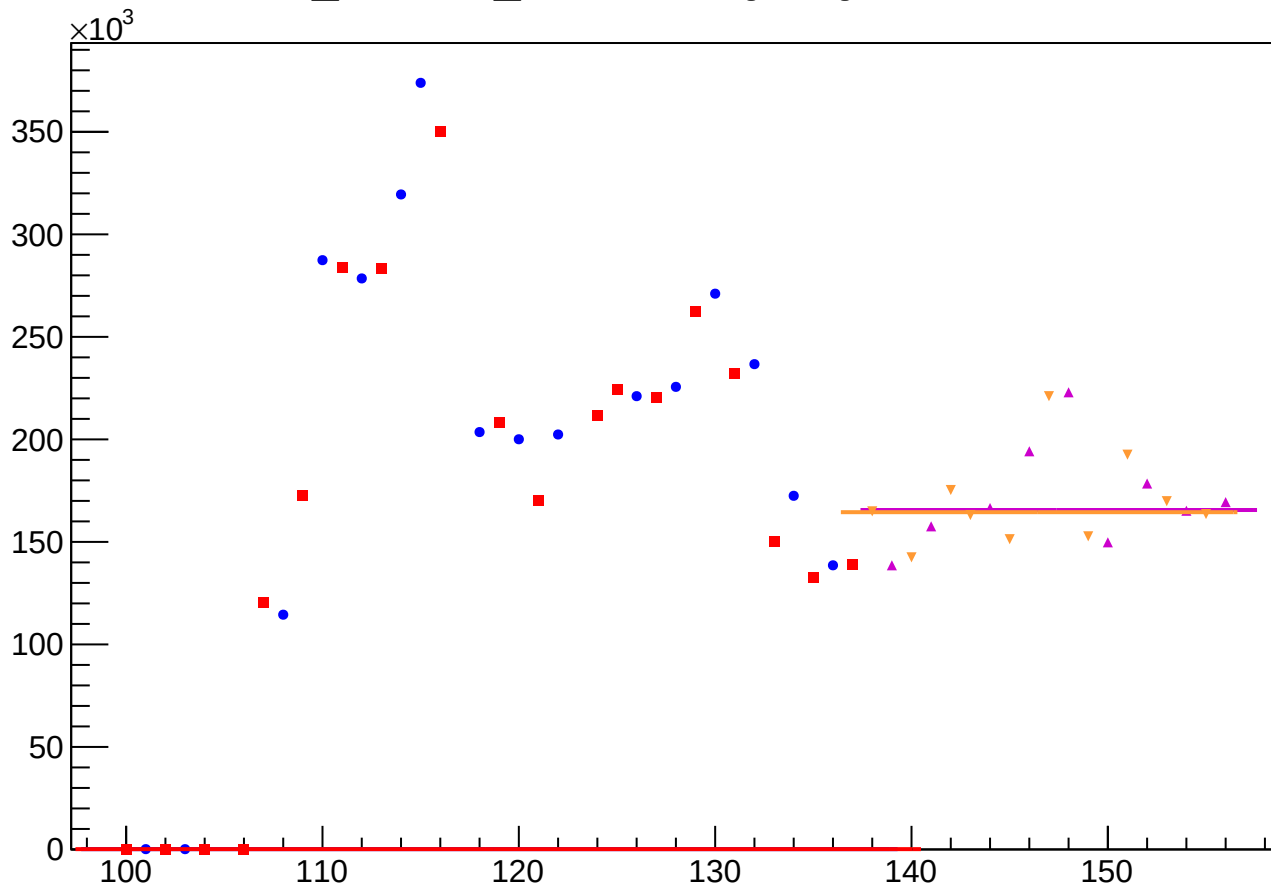
Right: -0.099 ± 0.121 χ^2/NDF : 26.5/34

In: -0.069 ± 0.177 χ^2/NDF : 29.1/24

Out: -0.125 ± 0.166 χ^2/NDF : 22.6/28

All: -0.099 ± 0.121 χ^2/NDF : 51.8/53

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 153.460 $\pm$ 0.125 χ^2 /NDF: 11904914.7/15

Left Out: 164497.576 $\pm$ 42.002 χ^2 /NDF:207706.5/9

Right Out: 156.158 $\pm$ 0.118 χ^2 /NDF: 11330885.6/18

Left In: 165560.900 $\pm$ 42.372 χ^2 /NDF:243420.8/8

Left: 165024.581 $\pm$ 29.830 χ^2 /NDF: 451445.0/18

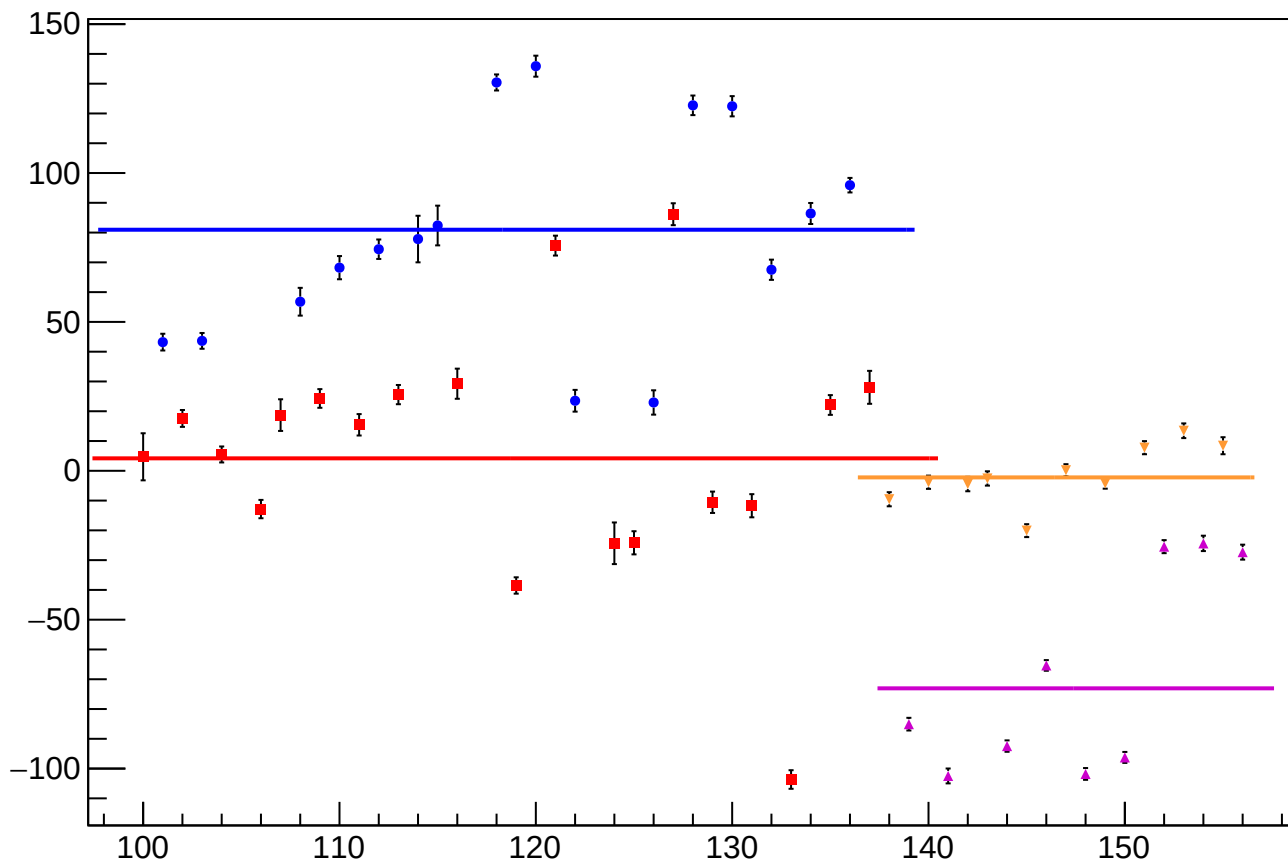
Right: 154.893 $\pm$ 0.086 χ^2 /NDF: 23236046.4/34

In: 154.907 $\pm$ 0.125 χ^2 /NDF:27387194.7/24

Out: 157.449 $\pm$ 0.118 χ^2 /NDF:26847517.4/28

All: 156.257 $\pm$ 0.086 χ^2 /NDF: 54234930.5/53

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 80.955+/-0.851 χ^2/NDF : 1813.9/15

Left Out: -2.216+/-0.711 χ^2/NDF : 156.2/9

Right Out: 4.183+/-0.820 χ^2/NDF : 2719.7/18

Left In: -73.053+/-0.702 χ^2/NDF : 1818.3/8

Left: -38.081+/-0.499 χ^2/NDF : 7006.9/18

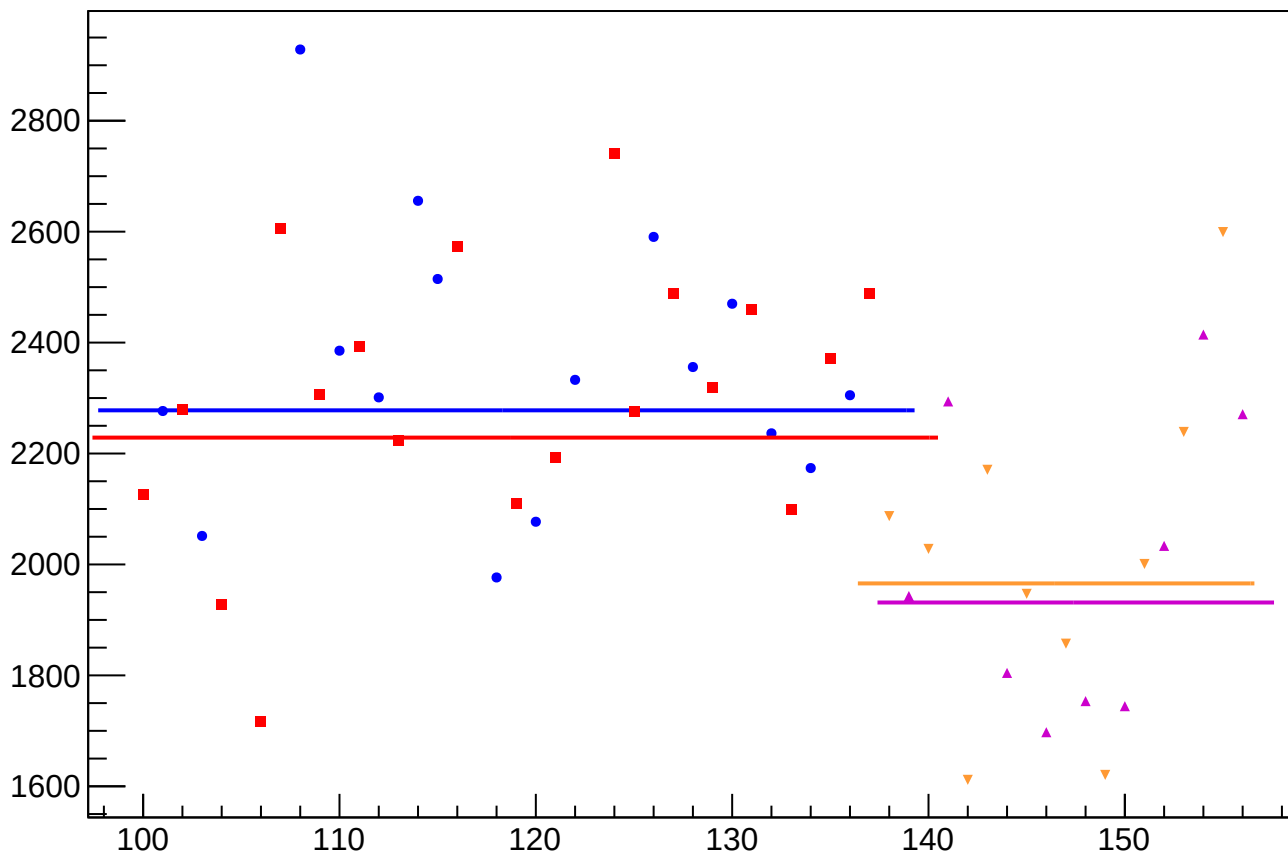
Right: 41.130+/-0.591 χ^2/NDF : 8751.0/34

In: -10.769+/-0.541 χ^2/NDF : 23117.7/24

Out: 0.528+/-0.537 χ^2/NDF : 2910.7/28

All: -5.074+/-0.381 χ^2/NDF : 26247.8/53

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2277.867+/-0.602 χ^2/NDF : 115771.4/15

Left Out: 1965.803+/-0.502 χ^2/NDF : 267978.6/9

Right Out: 2228.689+/-0.580 χ^2/NDF : 151135.6/18

Left In: 1931.392+/-0.496 χ^2/NDF : 232536.8/8

Left: 1948.381+/-0.353 χ^2/NDF : 502890.5/18

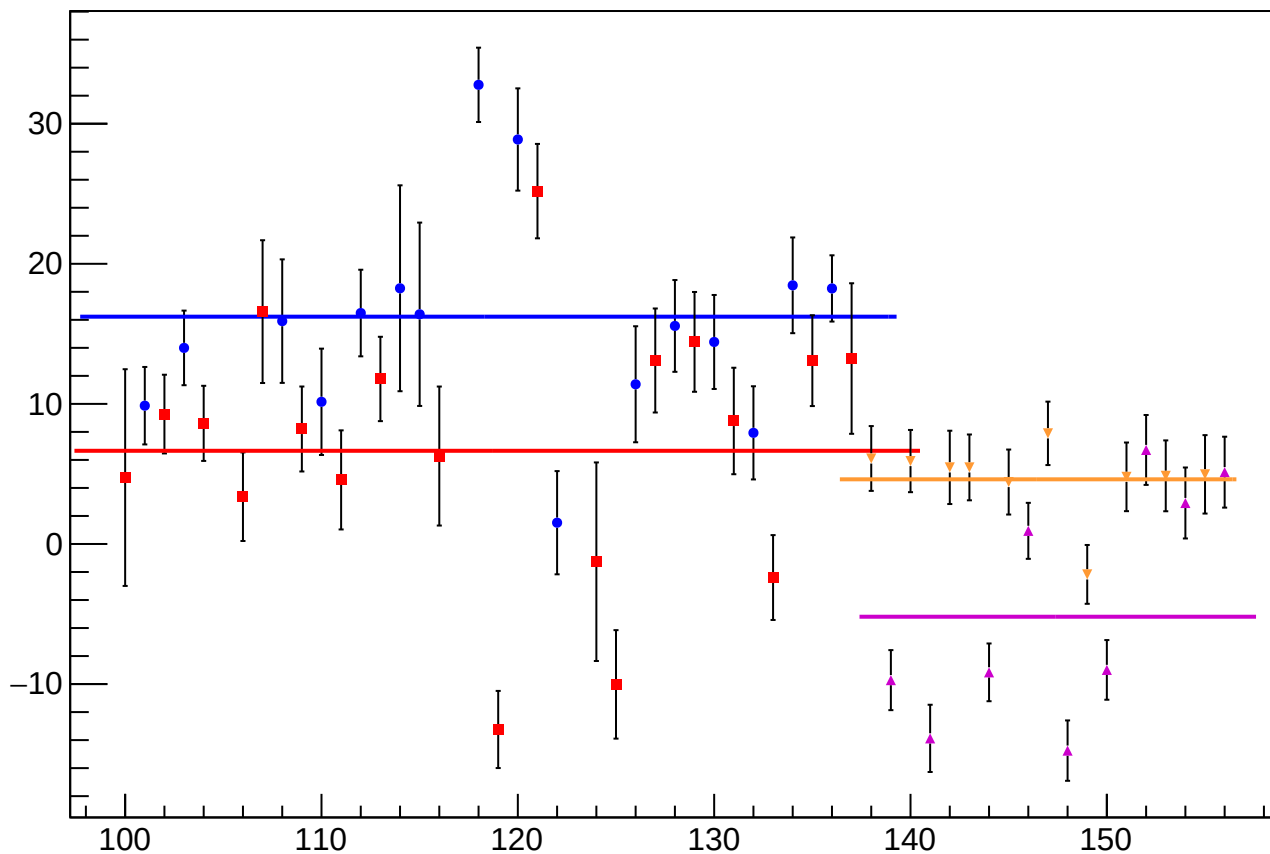
Right: 2252.356+/-0.418 χ^2/NDF : 270367.9/34

In: 2071.513+/-0.383 χ^2/NDF : 545548.7/24

Out: 2078.521+/-0.380 χ^2/NDF : 536505.9/28

All: 2075.046+/-0.270 χ^2/NDF : 1082223.5/53

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.226 ± 0.838 $\chi^2/\text{NDF}: 84.5/15$

Left Out: 4.615 ± 0.751 $\chi^2/\text{NDF}: 13.6/9$

Right Out: 6.652 ± 0.809 $\chi^2/\text{NDF}: 134.6/18$

Left In: -5.193 ± 0.748 $\chi^2/\text{NDF}: 103.2/8$

Left: -0.303 ± 0.530 $\chi^2/\text{NDF}: 202.4/18$

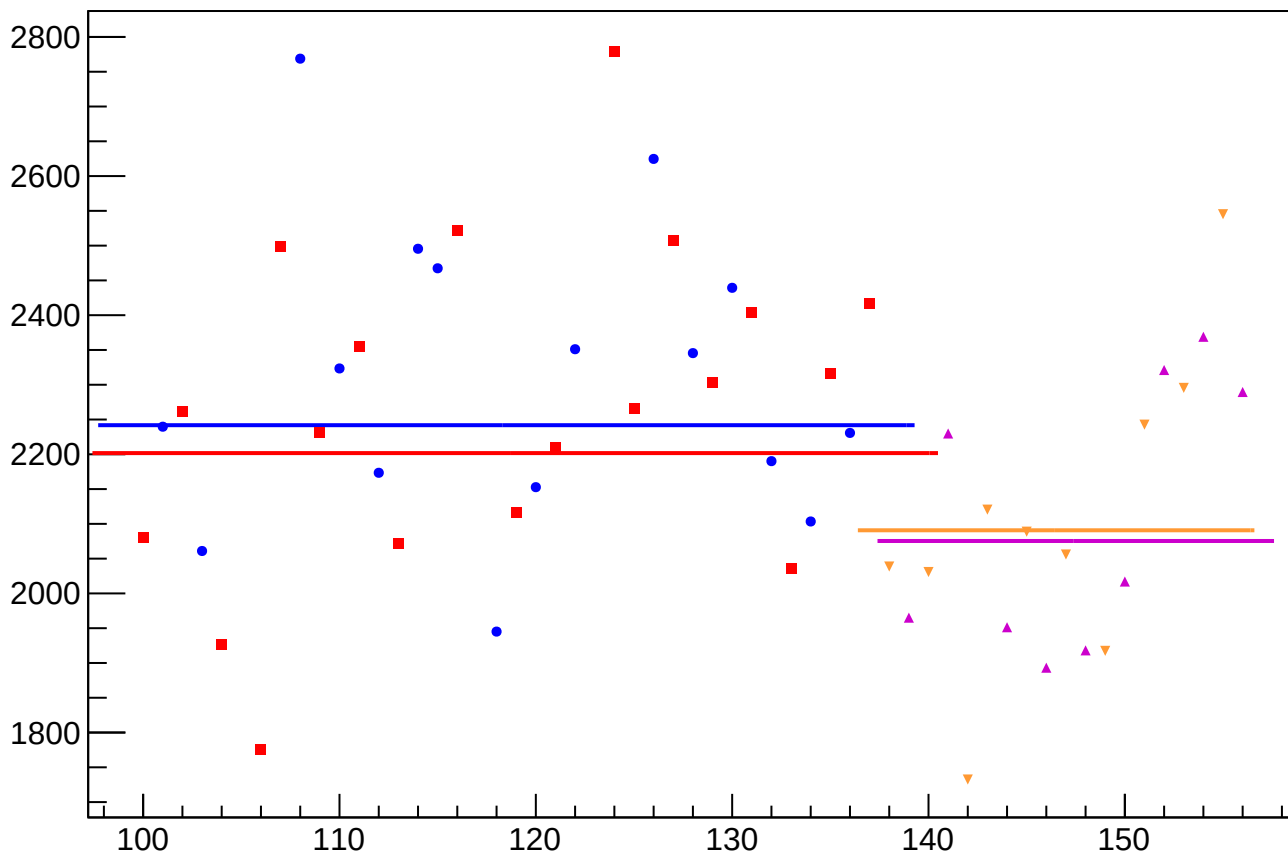
Right: 11.274 ± 0.582 $\chi^2/\text{NDF}: 286.7/34$

In: 4.315 ± 0.558 $\chi^2/\text{NDF}: 551.4/24$

Out: 5.557 ± 0.550 $\chi^2/\text{NDF}: 151.5/28$

All: 4.945 ± 0.392 $\chi^2/\text{NDF}: 705.4/53$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2241.853 $\pm$ 0.592 χ^2/NDF : 102260.7/15

Left Out: 2090.753 $\pm$ 0.531 χ^2/NDF : 127896.0/9

Right Out: 2201.739 $\pm$ 0.572 χ^2/NDF : 129882.5/18

Left In: 2075.380 $\pm$ 0.529 χ^2/NDF : 110196.6/8

Left: 2083.044 $\pm$ 0.375 χ^2/NDF : 238513.4/18

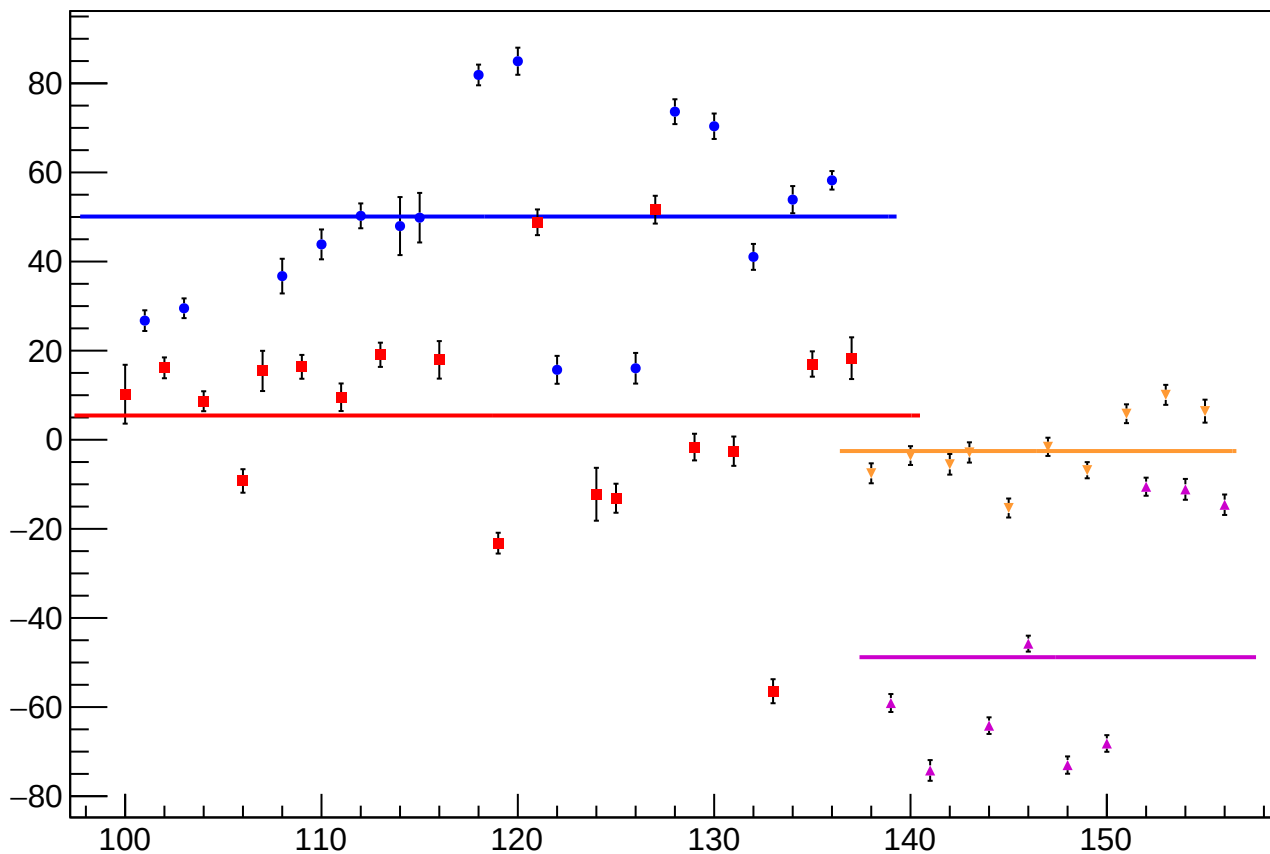
Right: 2221.106 $\pm$ 0.412 χ^2/NDF : 234515.6/34

In: 2149.275 $\pm$ 0.395 χ^2/NDF : 256391.7/24

Out: 2142.073 $\pm$ 0.389 χ^2/NDF : 277999.5/28

All: 2145.624 $\pm$ 0.277 χ^2/NDF : 534560.2/53

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.102+/-0.722 χ^2 /NDF: 888.5/15

Left Out: -2.535+/-0.684 χ^2 /NDF:108.1/9

Right Out: 5.444+/-0.694 χ^2 /NDF: 1311.6/18

Left In: -48.804+/-0.674 χ^2 /NDF:1316.0/8

Left: -25.983+/-0.480 χ^2 /NDF: 3745.0/18

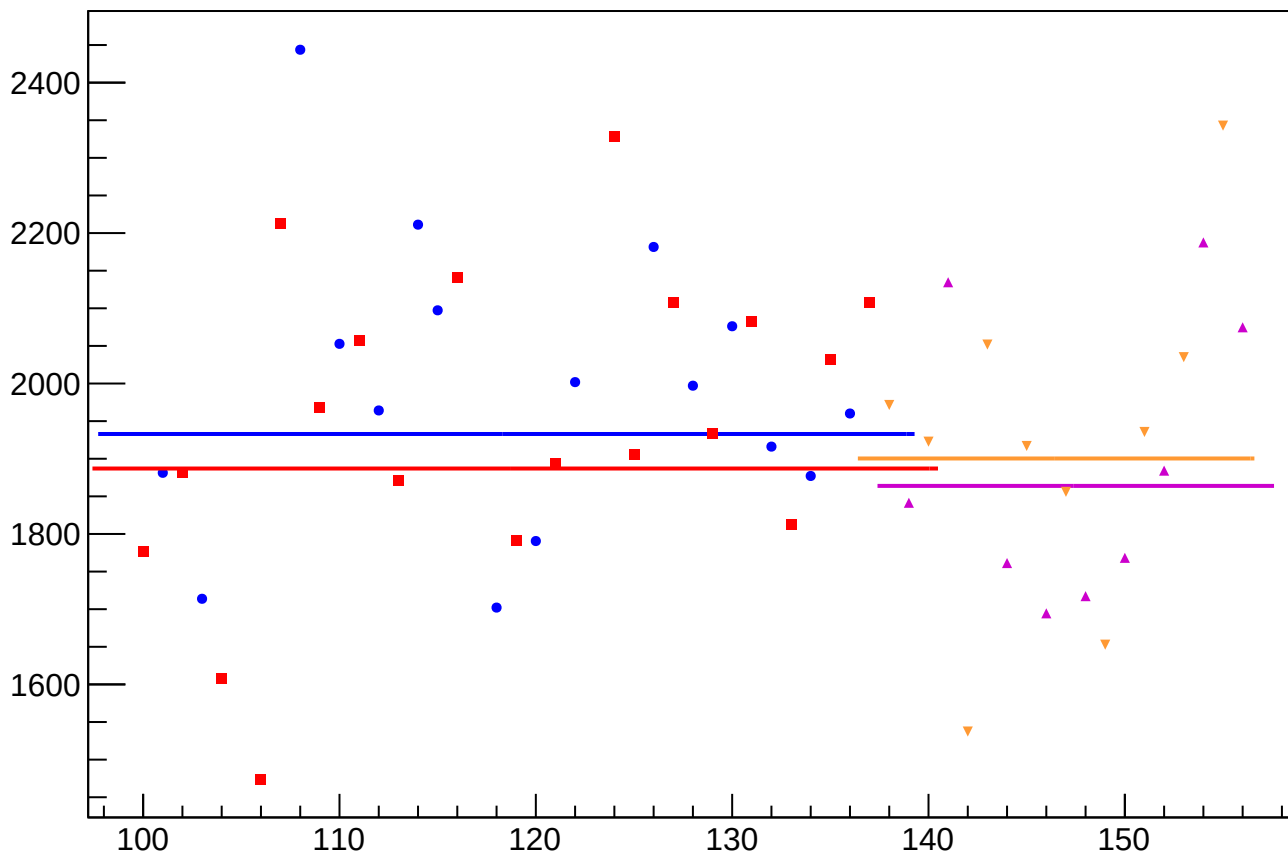
Right: 26.895+/-0.500 χ^2 /NDF: 4187.6/34

In: -2.720+/-0.493 χ^2 /NDF:12223.3/24

Out: 1.393+/-0.487 χ^2 /NDF:1486.7/28

All: -0.639+/-0.346 χ^2 /NDF: 13745.2/53

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1932.904 ± 0.511 χ^2/NDF : 105967.6/15

Left Out: 1900.348 ± 0.483 χ^2/NDF : 165159.1/9

Right Out: 1887.006 ± 0.491 χ^2/NDF : 149746.6/18

Left In: 1863.903 ± 0.477 χ^2/NDF : 123336.2/8

Left: 1881.878 ± 0.340 χ^2/NDF : 291375.3/18

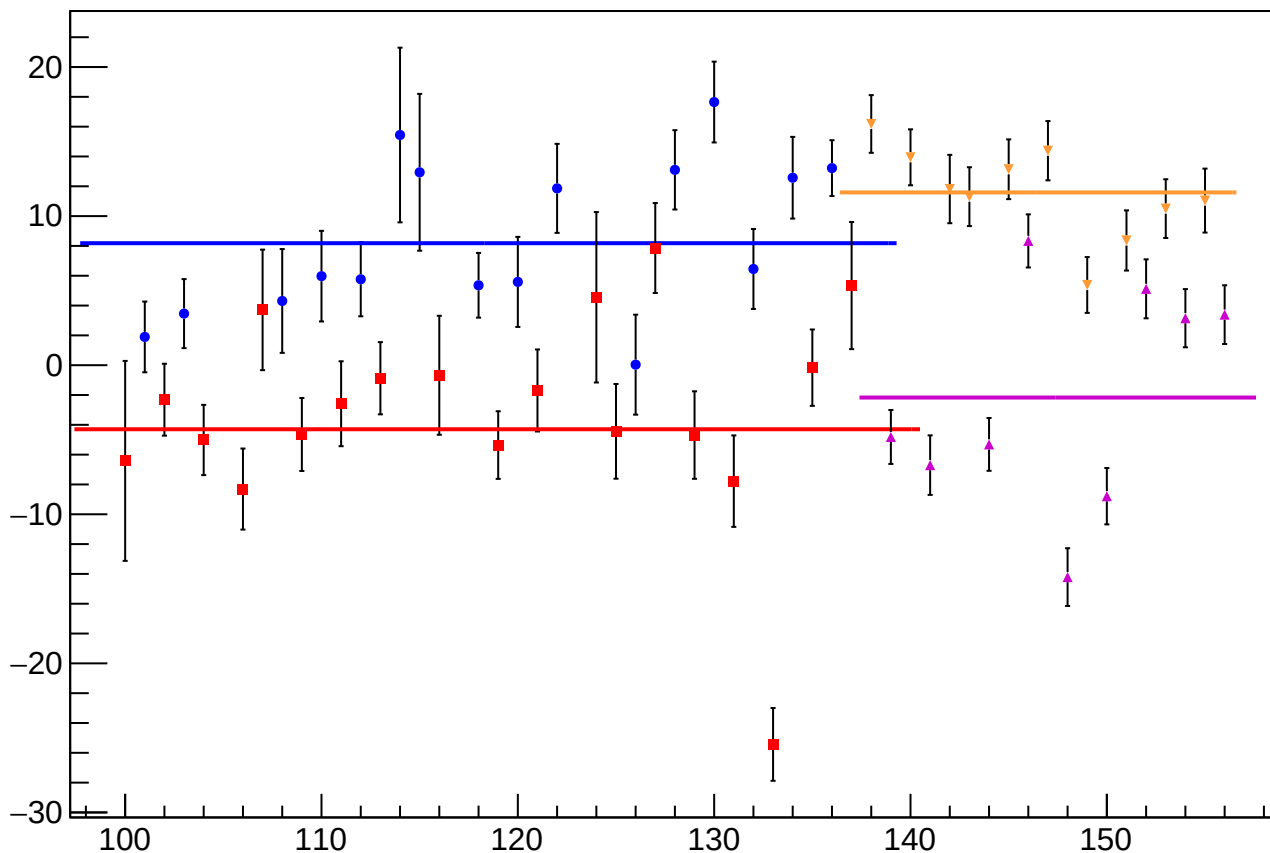
Right: 1909.052 ± 0.354 χ^2/NDF : 259912.9/34

In: 1896.052 ± 0.349 χ^2/NDF : 239056.3/24

Out: 1893.779 ± 0.344 χ^2/NDF : 315280.6/28

All: 1894.902 ± 0.245 χ^2/NDF : 554358.4/53

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.183 ± 0.684 $\chi^2/\text{NDF}: 52.0/15$

Left Out: 11.589 ± 0.632 $\chi^2/\text{NDF}: 23.7/9$

Right Out: -4.297 ± 0.665 $\chi^2/\text{NDF}: 114.0/18$

Left In: -2.170 ± 0.631 $\chi^2/\text{NDF}: 125.1/8$

Left: 4.701 ± 0.446 $\chi^2/\text{NDF}: 386.3/18$

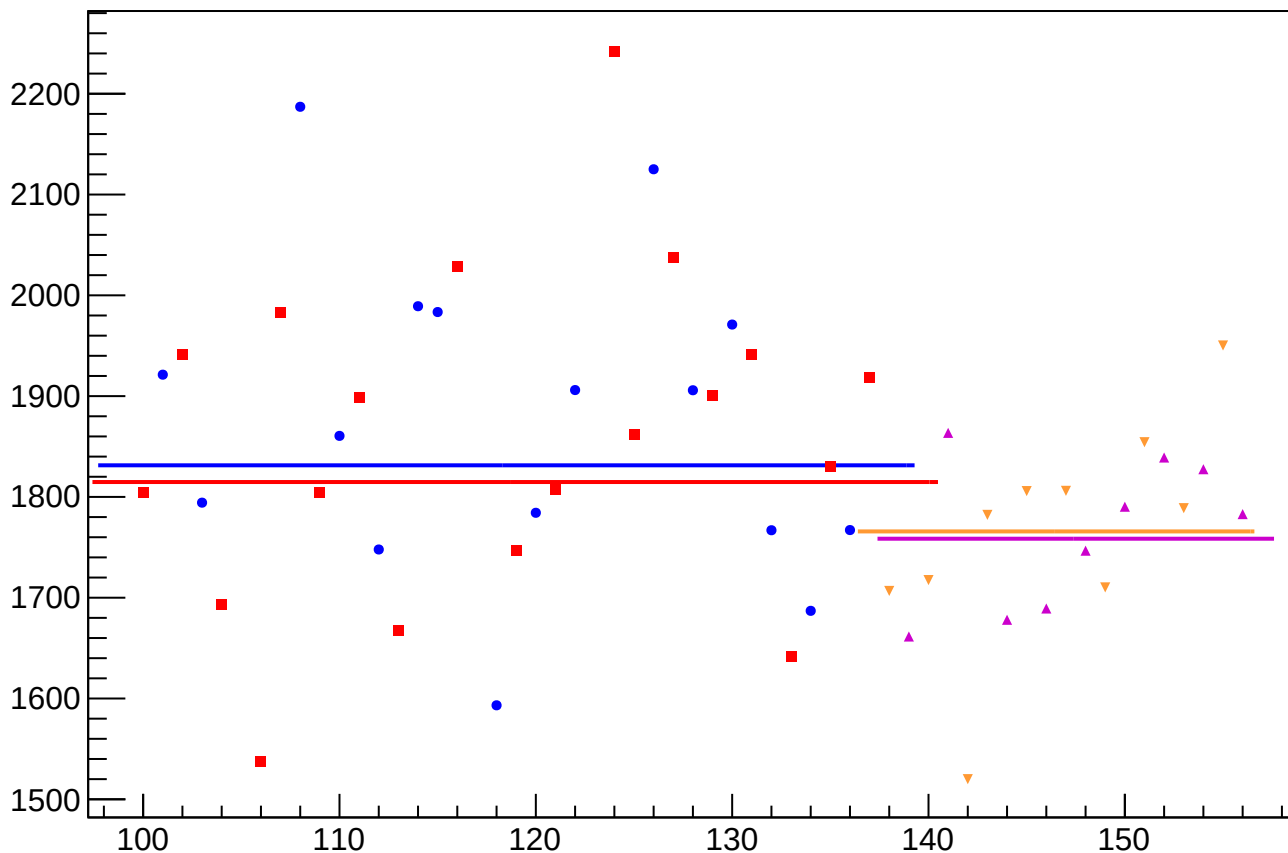
Right: 1.776 ± 0.477 $\chi^2/\text{NDF}: 337.0/34$

In: 2.592 ± 0.464 $\chi^2/\text{NDF}: 300.9/24$

Out: 4.059 ± 0.458 $\chi^2/\text{NDF}: 437.4/28$

All: 3.335 ± 0.326 $\chi^2/\text{NDF}: 743.4/53$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1831.359 ± 0.483 $\chi^2/\text{NDF}: 86919.2/15$

Left Out: 1765.771 ± 0.447 $\chi^2/\text{NDF}: 48628.1/9$

Right Out: 1814.774 ± 0.471 $\chi^2/\text{NDF}: 90738.7/18$

Left In: 1758.529 ± 0.446 $\chi^2/\text{NDF}: 25187.2/8$

Left: 1762.145 ± 0.316 $\chi^2/\text{NDF}: 73947.0/18$

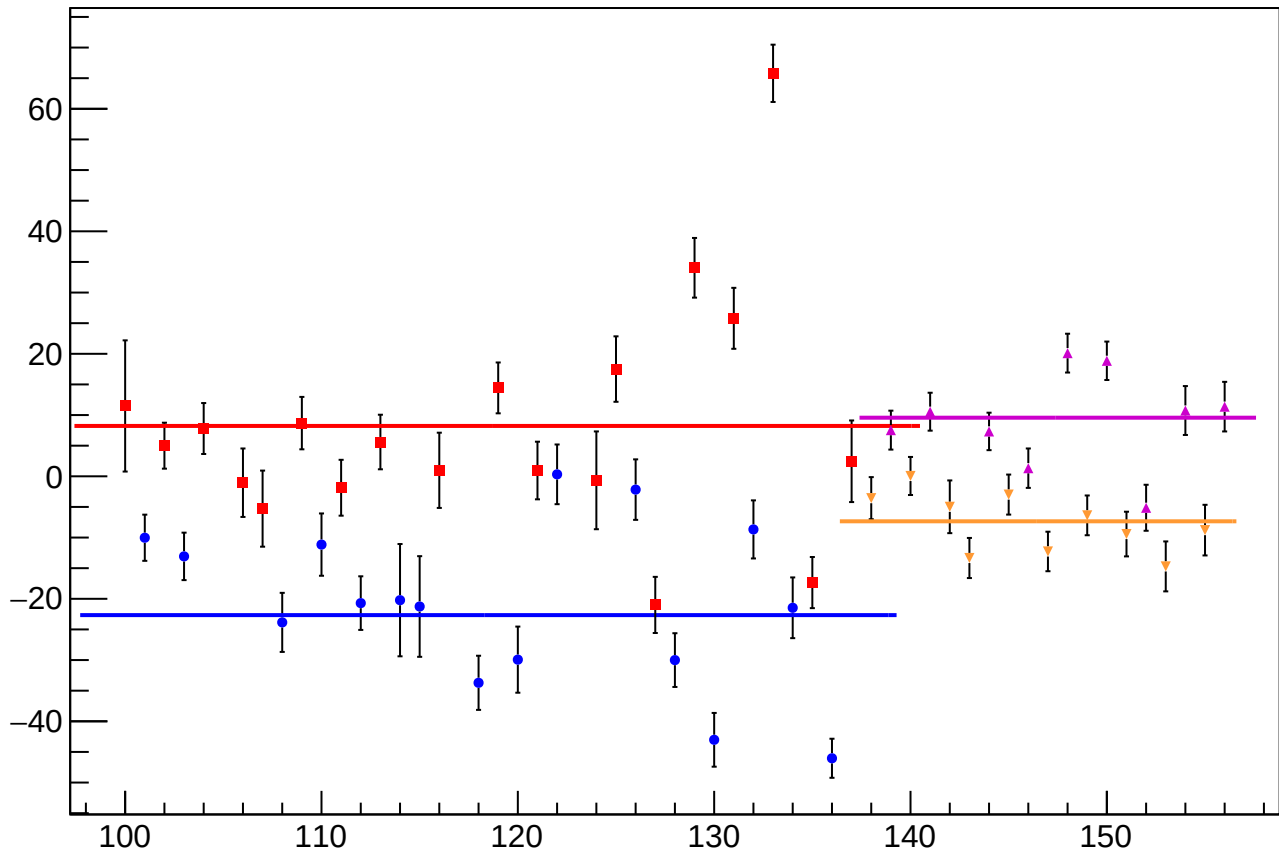
Right: 1822.844 ± 0.337 $\chi^2/\text{NDF}: 178262.4/34$

In: 1792.031 ± 0.328 $\chi^2/\text{NDF}: 124366.4/24$

Out: 1788.997 ± 0.324 $\chi^2/\text{NDF}: 145071.5/28$

All: 1790.496 ± 0.230 $\chi^2/\text{NDF}: 269481.3/53$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.663 $\pm$ 1.152 χ^2/NDF : 157.2/15

Left Out: -7.346 $\pm$ 1.108 χ^2/NDF : 18.4/9

Right Out: 8.224 $\pm$ 1.129 χ^2/NDF : 294.8/18

Left In: 9.569 $\pm$ 1.116 χ^2/NDF : 43.1/8

Left: 1.052 $\pm$ 0.786 χ^2/NDF : 177.2/18

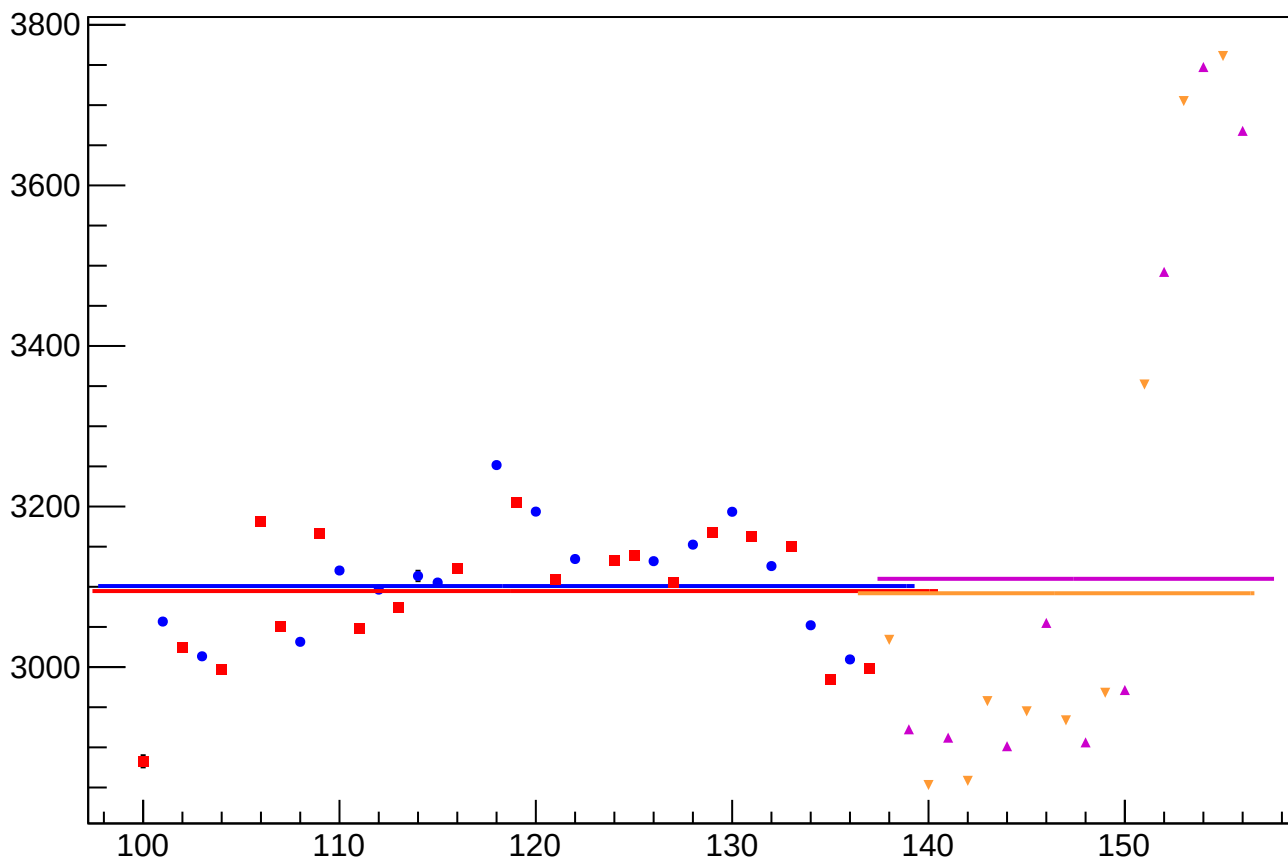
Right: -6.906 $\pm$ 0.806 χ^2/NDF : 818.8/34

In: -6.038 $\pm$ 0.802 χ^2/NDF : 604.1/24

Out: 0.296 $\pm$ 0.791 χ^2/NDF : 410.1/28

All: -2.828 $\pm$ 0.563 χ^2/NDF : 1045.8/53

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3100.940+/-0.815 χ^2/NDF : 7893.7/15

Left Out: 3091.976+/-0.784 χ^2/NDF : 141231.2/9

Right Out: 3094.688+/-0.798 χ^2/NDF : 8584.4/18

Left In: 3109.948+/-0.789 χ^2/NDF : 146901.4/8

Left: 3100.900+/-0.556 χ^2/NDF : 288393.7/18

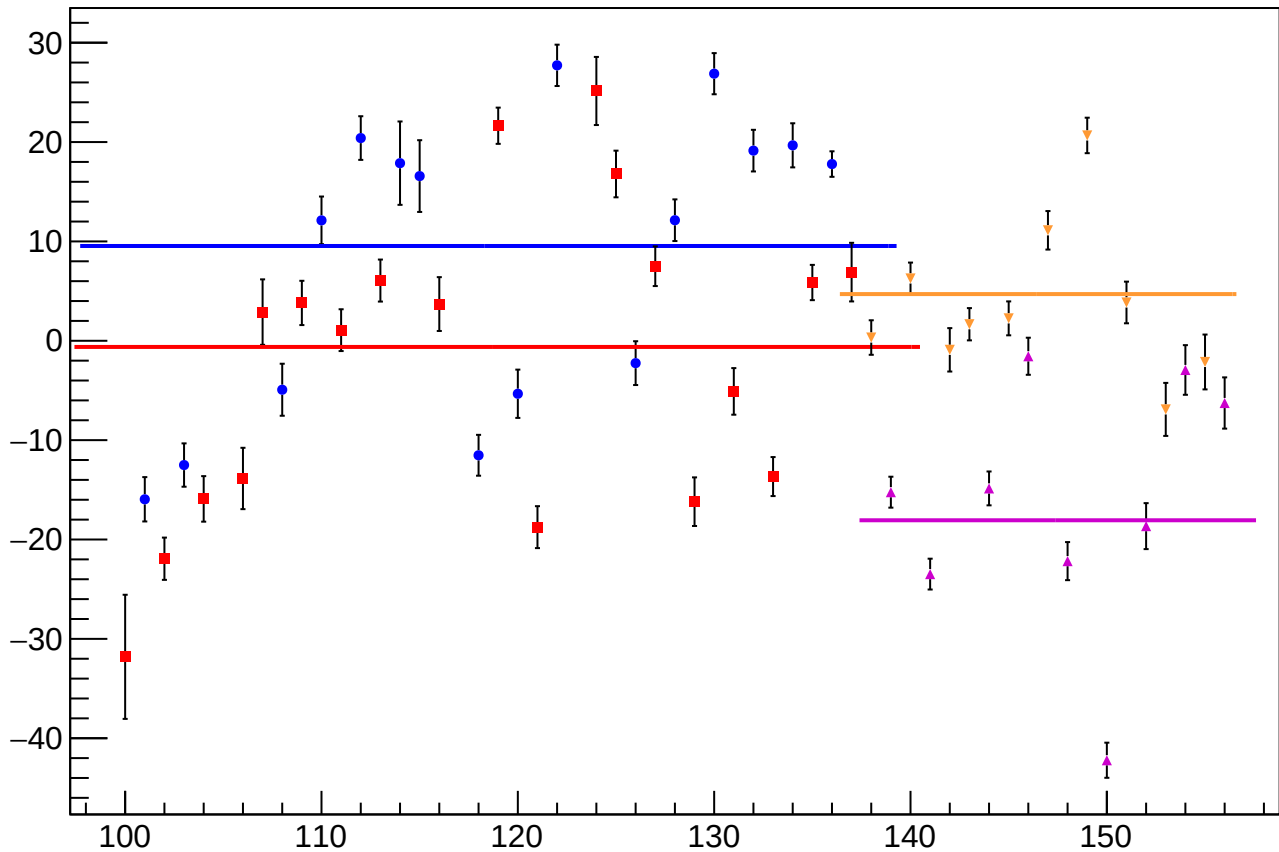
Right: 3097.751+/-0.570 χ^2/NDF : 16508.2/34

In: 3105.587+/-0.567 χ^2/NDF : 154858.2/24

Out: 3093.307+/-0.559 χ^2/NDF : 149821.5/28

All: 3099.364+/-0.398 χ^2/NDF : 304917.6/53

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.540 ± 0.541 $\chi^2/\text{NDF}: 698.7/15$

Left Out: 4.699 ± 0.605 $\chi^2/\text{NDF}: 135.5/9$

Right Out: -0.620 ± 0.534 $\chi^2/\text{NDF}: 665.8/18$

Left In: -18.064 ± 0.626 $\chi^2/\text{NDF}: 346.3/8$

Left: -6.285 ± 0.435 $\chi^2/\text{NDF}: 1165.5/18$

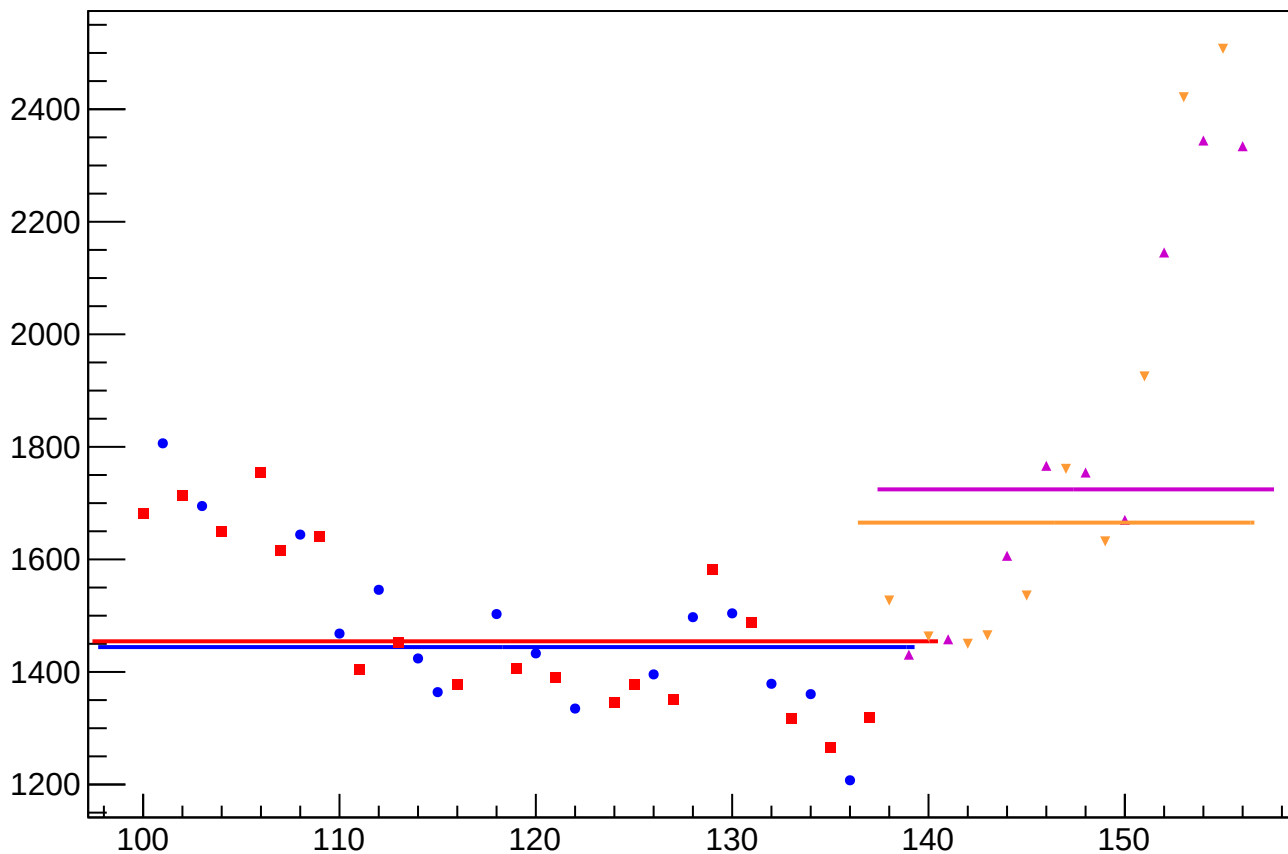
Right: 4.392 ± 0.380 $\chi^2/\text{NDF}: 1543.1/34$

In: -2.264 ± 0.410 $\chi^2/\text{NDF}: 2157.1/24$

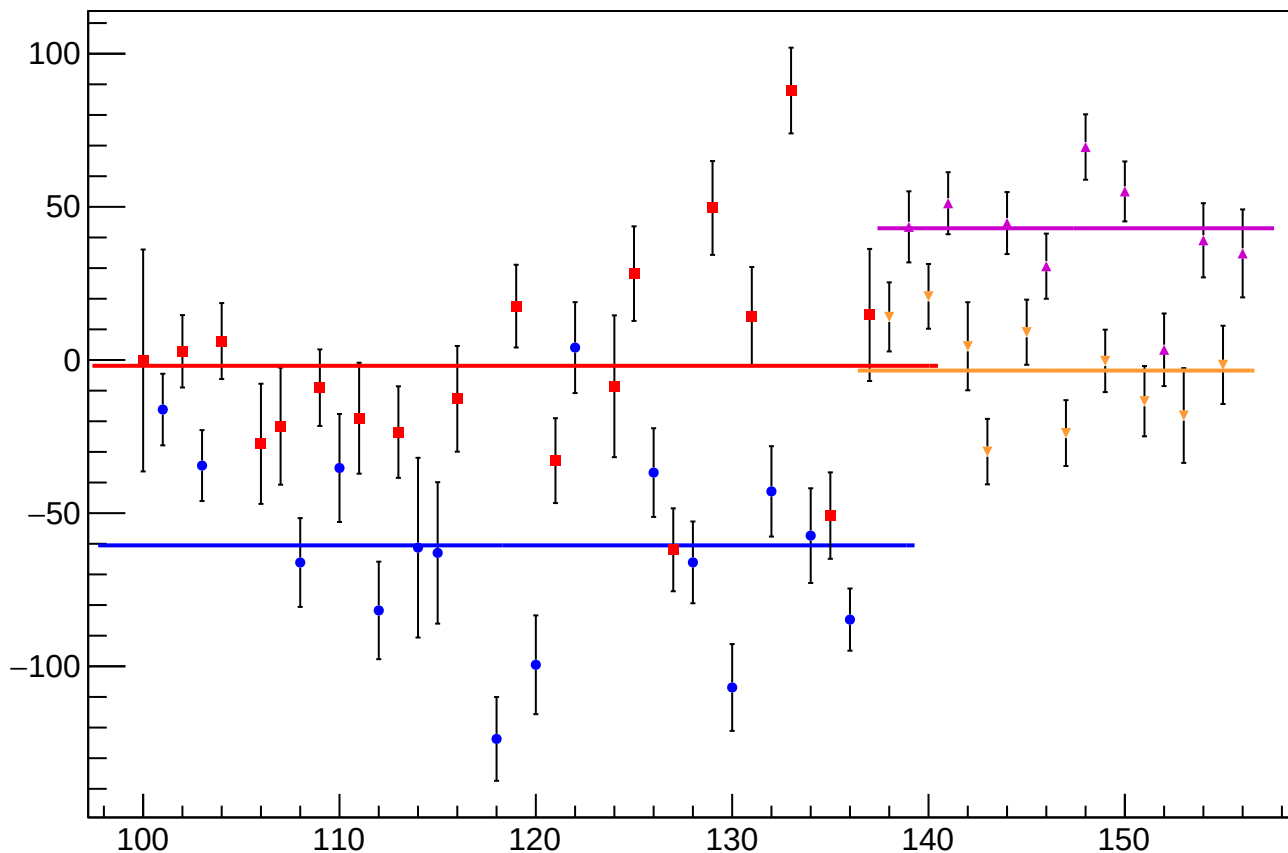
Out: 1.711 ± 0.400 $\chi^2/\text{NDF}: 844.8/28$

All: -0.231 ± 0.286 $\chi^2/\text{NDF}: 3050.1/53$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -60.516 $\pm$ 3.596 χ^2/NDF : 90.3/15

Left Out: -3.444 $\pm$ 3.641 χ^2/NDF : 20.9/9

Right Out: -1.894 $\pm$ 3.543 χ^2/NDF : 103.8/18

Left In: 43.007 $\pm$ 3.682 χ^2/NDF : 21.3/8

Left: 19.522 $\pm$ 2.589 χ^2/NDF : 122.7/18

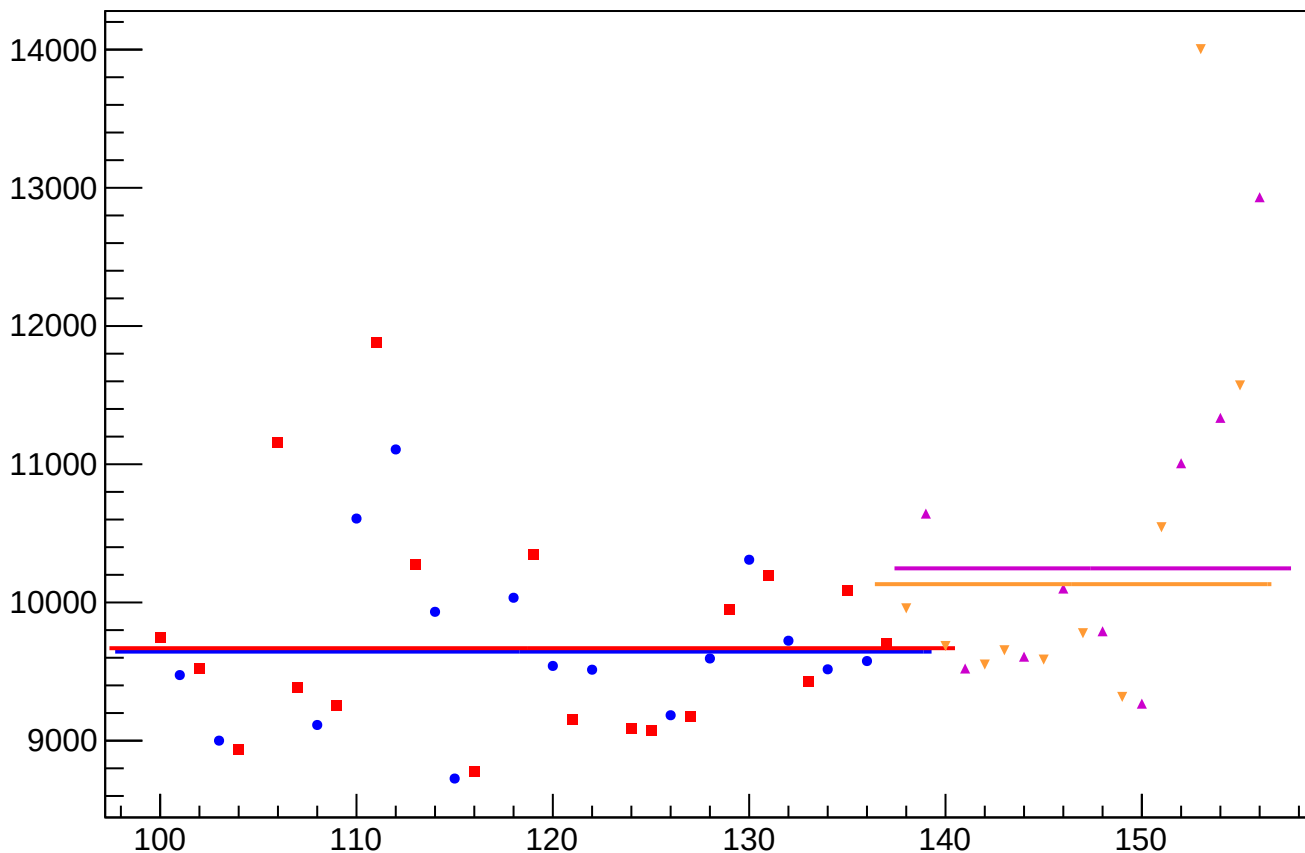
Right: -30.766 $\pm$ 2.524 χ^2/NDF : 329.0/34

In: -9.968 $\pm$ 2.573 χ^2/NDF : 516.3/24

Out: -2.648 $\pm$ 2.539 χ^2/NDF : 124.8/28

All: -6.260 $\pm$ 1.807 χ^2/NDF : 645.2/53

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9644.396+/-2.543 χ^2/NDF : 44101.6/15

Left Out: 10132.452+/-2.574 χ^2/NDF : 184838.8/9

Right Out: 9669.136+/-2.505 χ^2/NDF : 79878.1/18

Left In: 10246.754+/-2.603 χ^2/NDF : 138914.5/8

Left: 10188.964+/-1.830 χ^2/NDF : 324727.9/18

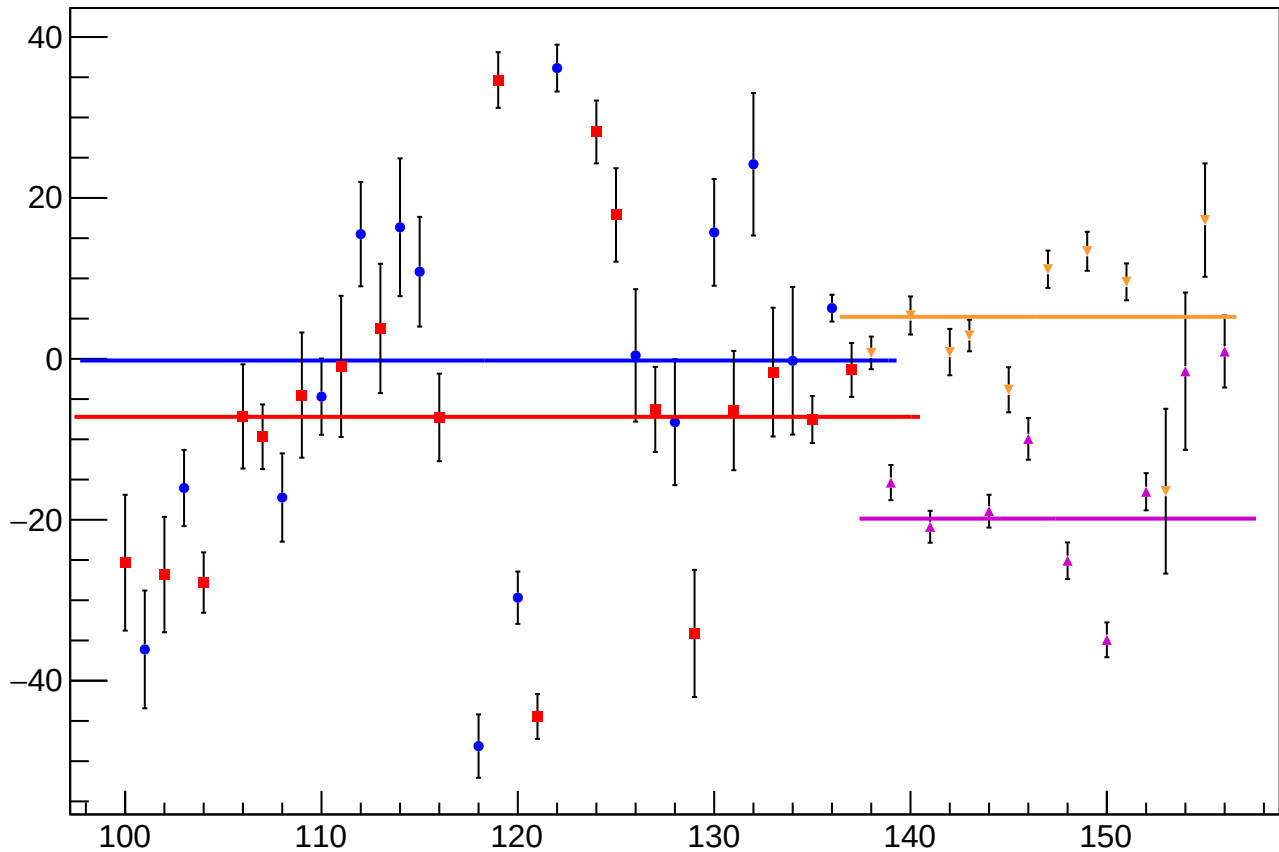
Right: 9656.951+/-1.785 χ^2/NDF : 124027.7/34

In: 9938.512+/-1.819 χ^2/NDF : 210413.1/24

Out: 9894.483+/-1.795 χ^2/NDF : 281353.2/28

All: 9916.209+/-1.278 χ^2/NDF : 492063.1/53

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.206 ± 1.045 $\chi^2/\text{NDF}: 473.7/15$

Left Out: 5.224 ± 0.815 $\chi^2/\text{NDF}: 47.9/9$

Right Out: -7.206 ± 1.074 $\chi^2/\text{NDF}: 485.6/18$

Left In: -19.854 ± 0.814 $\chi^2/\text{NDF}: 100.2/8$

Left: -7.330 ± 0.576 $\chi^2/\text{NDF}: 622.2/18$

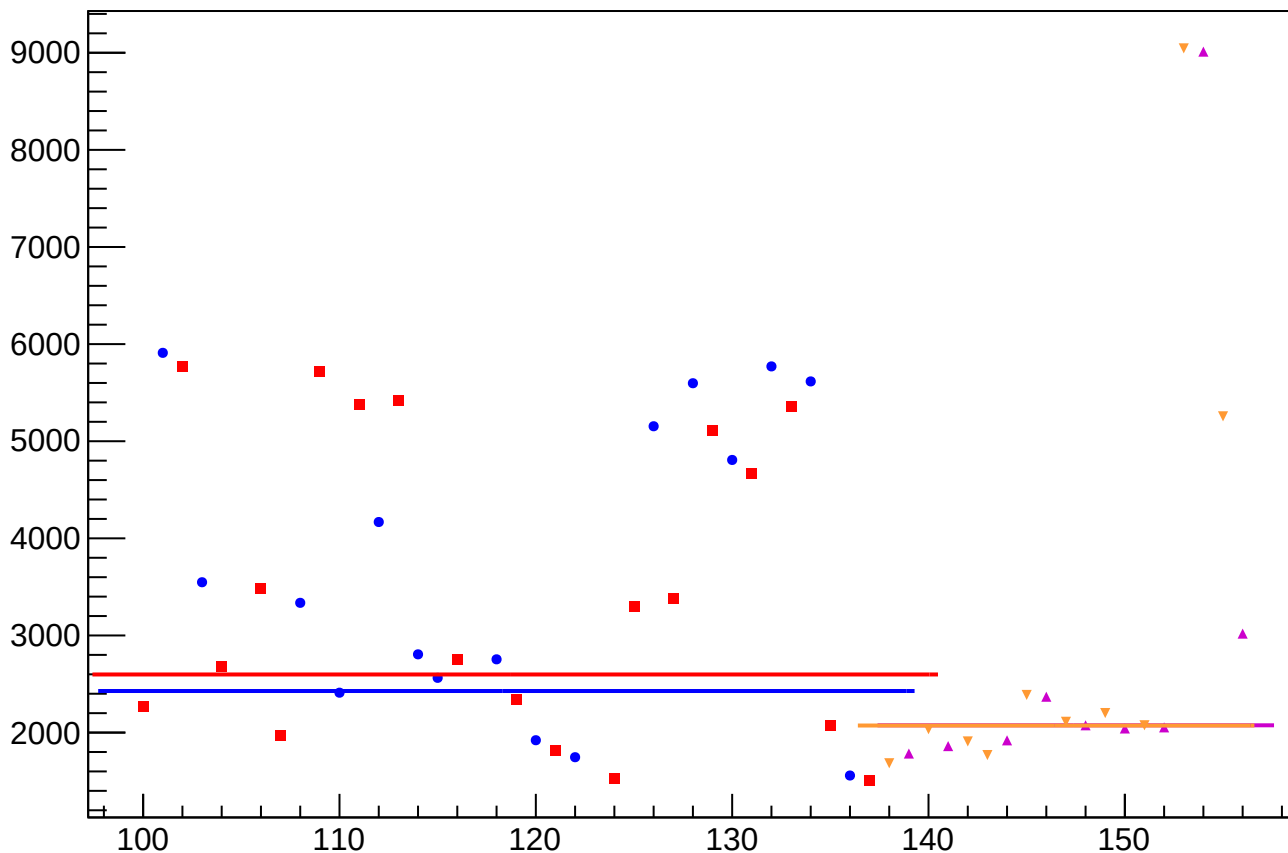
Right: -3.613 ± 0.749 $\chi^2/\text{NDF}: 981.2/34$

In: -12.439 ± 0.642 $\chi^2/\text{NDF}: 793.8/24$

Out: 0.681 ± 0.649 $\chi^2/\text{NDF}: 618.6/28$

All: -5.949 ± 0.457 $\chi^2/\text{NDF}: 1618.9/53$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2428.080+/-0.739 χ^2/NDF : 2815335.2/15

Left Out: 2072.747+/-0.576 χ^2/NDF : 1495593.8/9

Right Out: 2598.321+/-0.759 χ^2/NDF : 2514932.7/18

Left In: 2074.981+/-0.575 χ^2/NDF : 1192643.1/8

Left: 2073.865+/-0.407 χ^2/NDF : 2688244.4/18

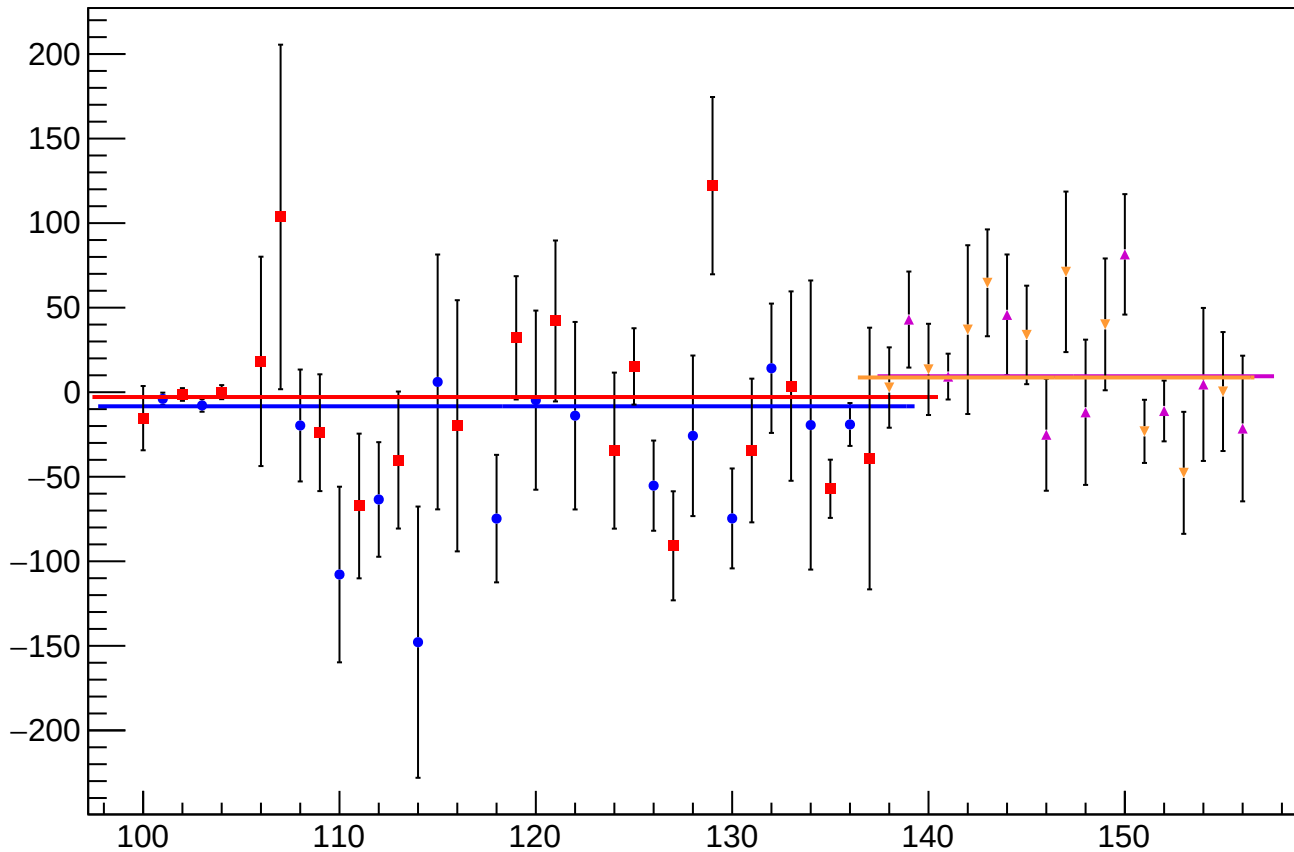
Right: 2510.930+/-0.530 χ^2/NDF : 5356082.2/34

In: 2208.240+/-0.454 χ^2/NDF : 4150049.8/24

Out: 2264.843+/-0.459 χ^2/NDF : 4314633.4/28

All: 2236.240+/-0.323 χ^2/NDF : 8472369.0/53

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.332 ± 2.499 χ^2/NDF : 23.4/15

Left Out: 8.715 ± 9.419 χ^2/NDF : 12.1/9

Right Out: -2.848 ± 2.640 χ^2/NDF : 32.6/18

Left In: 9.440 ± 8.502 χ^2/NDF : 9.7/8

Left: 9.115 ± 6.311 χ^2/NDF : 21.8/18

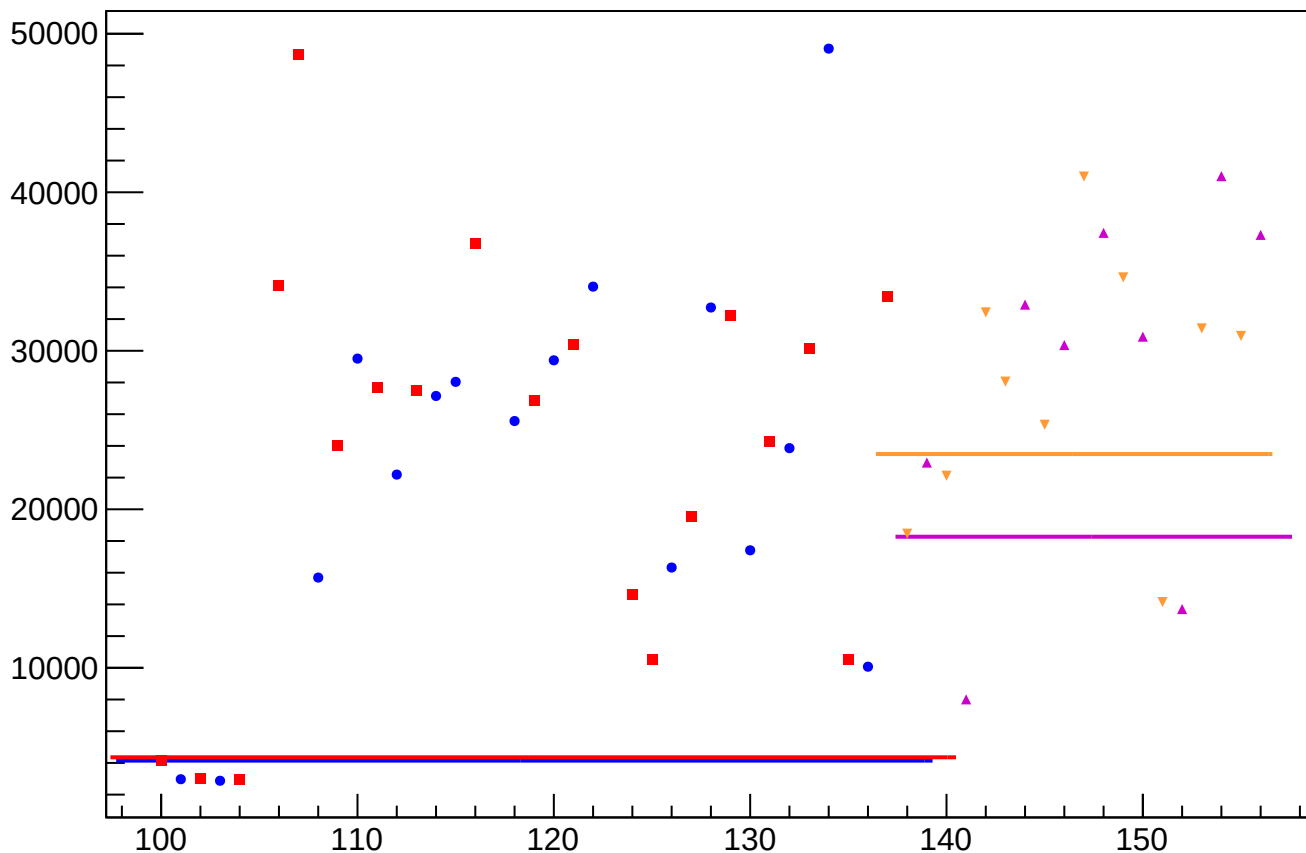
Right: -5.740 ± 1.815 χ^2/NDF : 58.3/34

In: -6.919 ± 2.398 χ^2/NDF : 37.1/24

Out: -2.006 ± 2.542 χ^2/NDF : 46.1/28

All: -4.605 ± 1.744 χ^2/NDF : 85.2/53

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4145.795+/-1.767 χ^2/NDF : 6836950.5/15

Left Out: 23485.792+/-6.660 χ^2/NDF :1330447.7/9

Right Out: 4354.437+/-1.866 χ^2/NDF : 7624762.5/18

Left In: 18269.827+/-6.012 χ^2/NDF :3478220.6/8

Left: 20611.519+/-4.463 χ^2/NDF : 5146652.8/18

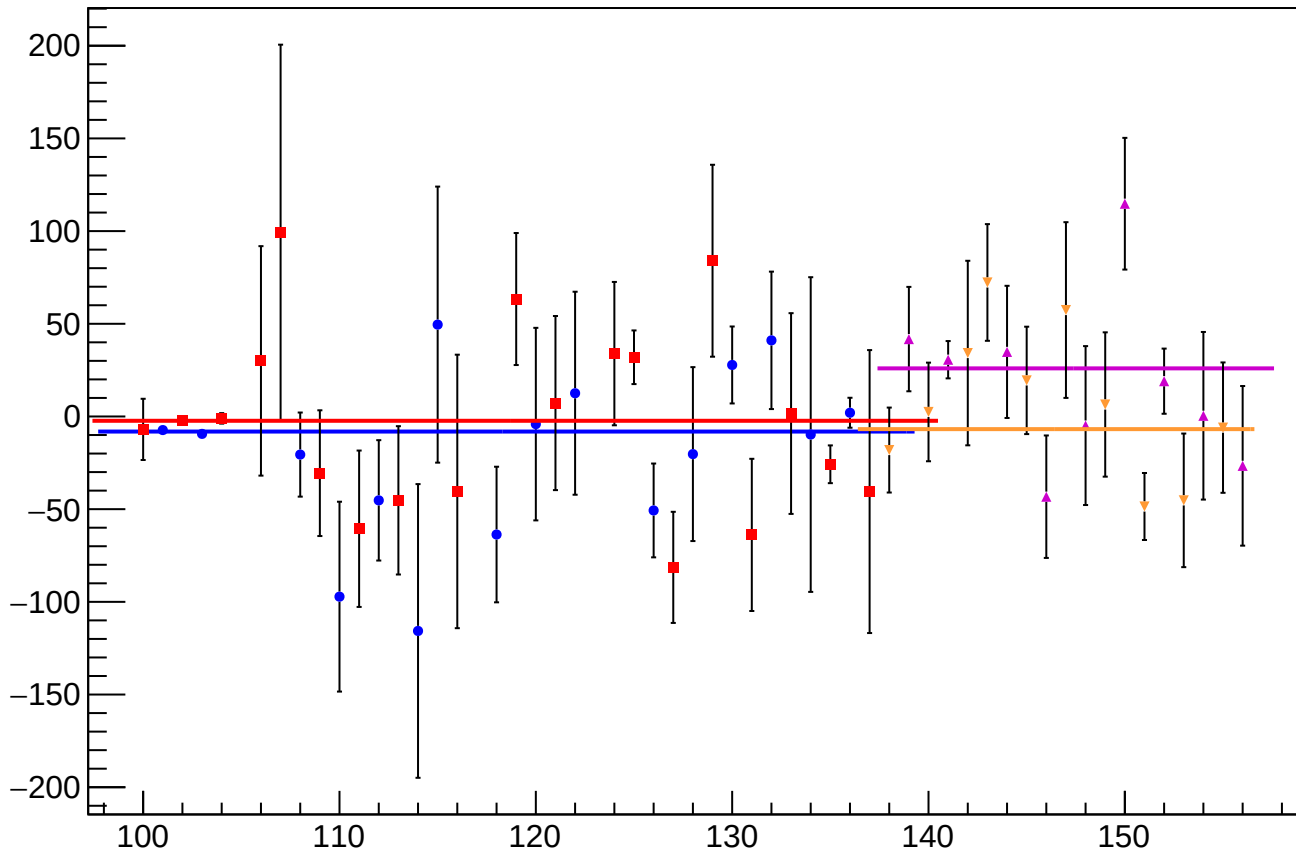
Right: 4244.429+/-1.283 χ^2/NDF : 14468301.6/34

In: 5269.420+/-1.696 χ^2/NDF :15396158.1/24

Out: 5747.528+/-1.797 χ^2/NDF :16605730.2/28

All: 5494.572+/-1.233 χ^2/NDF : 32039331.3/5

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.132 $\pm$ 1.720 χ^2/NDF : 19.1/15

Left Out: -6.825 $\pm$ 9.257 χ^2/NDF : 16.6/9

Right Out: -2.325 $\pm$ 1.822 χ^2/NDF : 33.1/18

Left In: 25.948 $\pm$ 7.364 χ^2/NDF : 13.7/8

Left: 13.247 $\pm$ 5.763 χ^2/NDF : 38.0/18

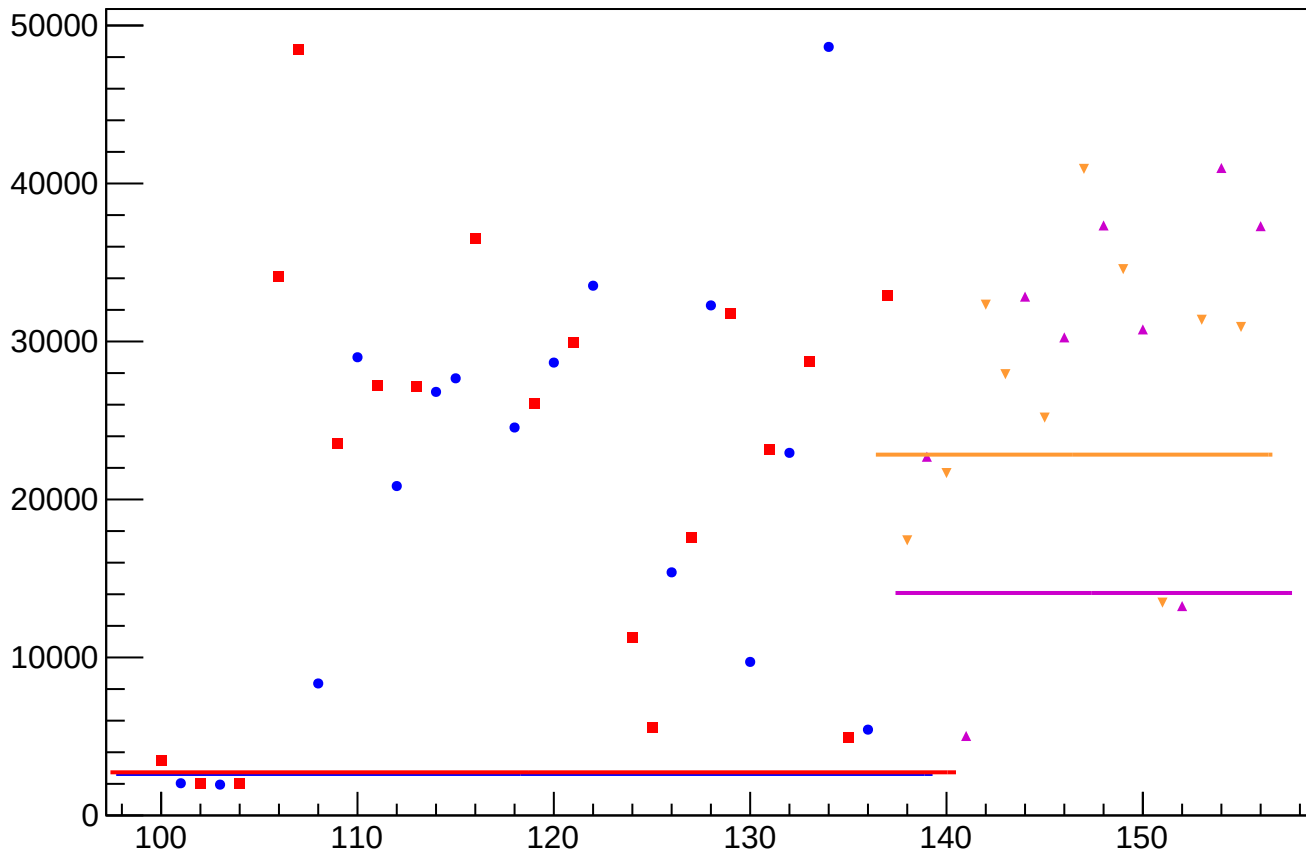
Right: -5.394 $\pm$ 1.251 χ^2/NDF : 57.5/34

In: -6.369 $\pm$ 1.675 χ^2/NDF : 53.1/24

Out: -2.492 $\pm$ 1.787 χ^2/NDF : 49.9/28

All: -4.556 $\pm$ 1.222 χ^2/NDF : 105.5/53

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2626.430+/-1.216 χ^2/NDF : 6780884.6/15

Left Out: 22838.259+/-6.546 χ^2/NDF : 1482621.8/9

Right Out: 2730.235+/-1.288 χ^2/NDF : 7985984.4/18

Left In: 14081.604+/-5.207 χ^2/NDF : 5162969.3/8

Left: 17475.217+/-4.075 χ^2/NDF : 7741613.3/18

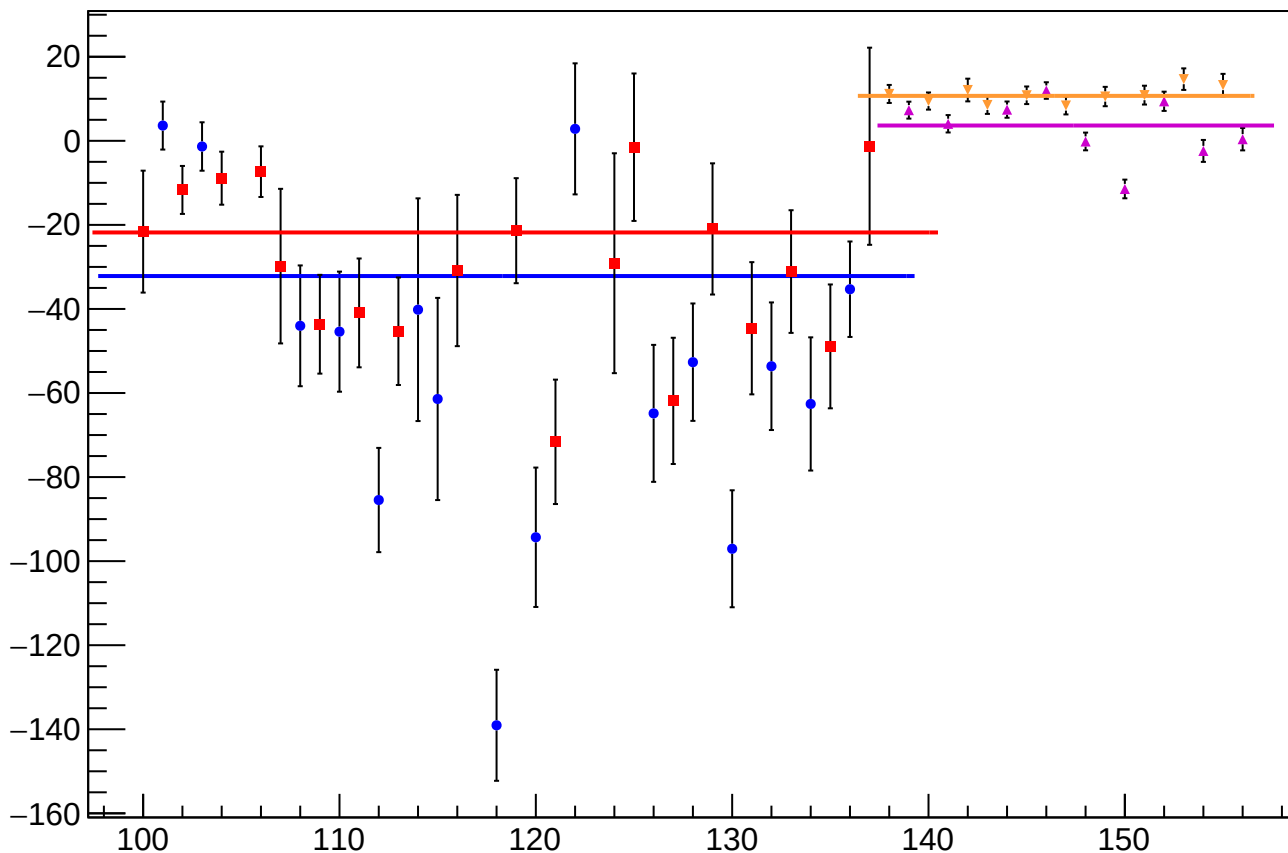
Right: 2675.367+/-0.884 χ^2/NDF : 14770301.6/34

In: 3219.307+/-1.185 χ^2/NDF : 16533109.3/24

Out: 3479.860+/-1.264 χ^2/NDF : 18553267.1/28

All: 3341.157+/-0.864 χ^2/NDF : 35109000.7/5

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.171 ± 2.842 χ^2/NDF : 207.8/15

Left Out: 10.697 ± 0.716 χ^2/NDF : 6.2/9

Right Out: -21.801 ± 2.557 χ^2/NDF : 49.1/18

Left In: 3.642 ± 0.723 χ^2/NDF : 87.6/8

Left: 7.204 ± 0.509 χ^2/NDF : 141.8/18

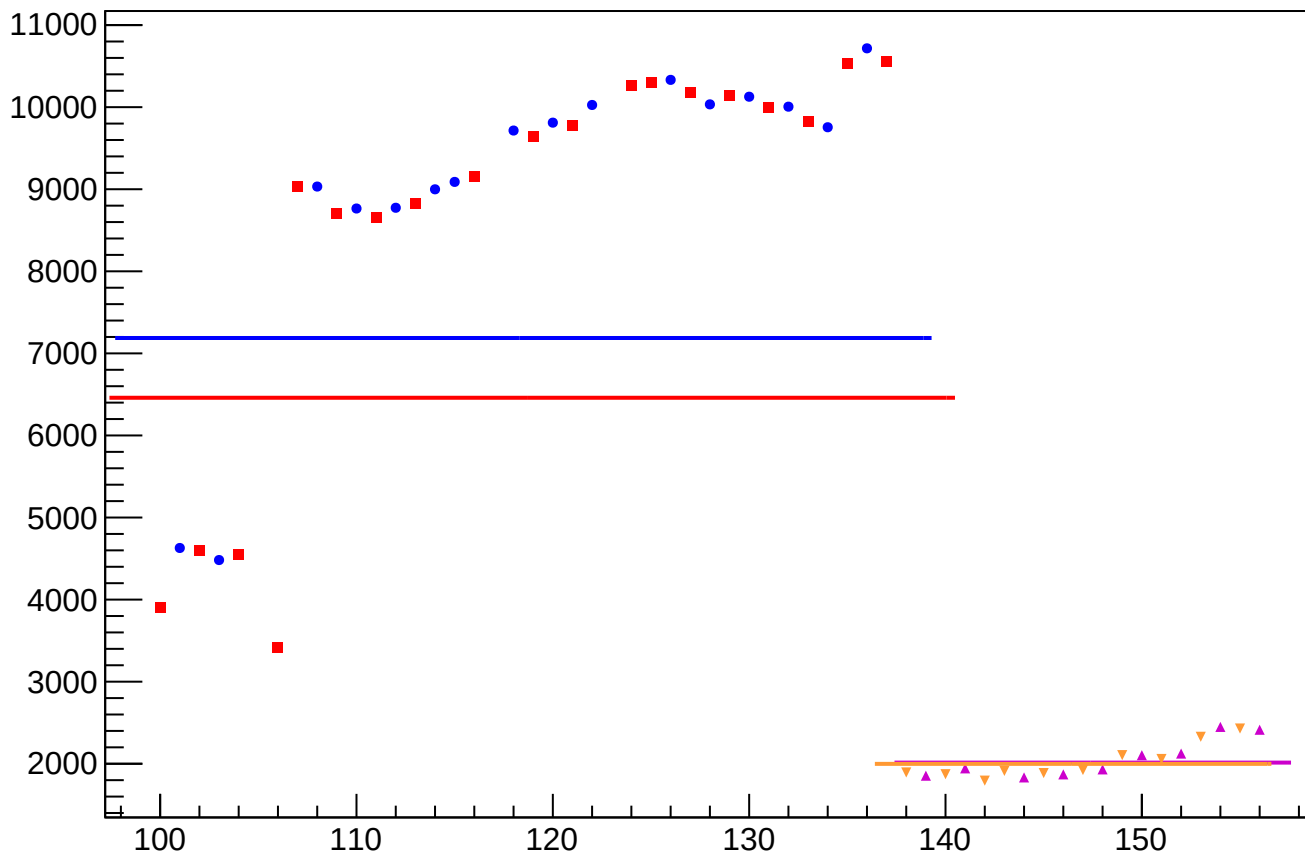
Right: -26.441 ± 1.901 χ^2/NDF : 264.2/34

In: 1.463 ± 0.701 χ^2/NDF : 444.5/24

Out: 8.332 ± 0.690 χ^2/NDF : 205.1/28

All: 4.953 ± 0.492 χ^2/NDF : 698.4/53

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7187.494+/-2.009

χ^2/NDF : 1705887.0/15

Left Out: 1998.586+/-0.507

χ^2/NDF : 126217.6/9

Right Out: 6459.323+/-1.808

χ^2/NDF : 2276337.9/18

Left In: 2013.980+/-0.512

χ^2/NDF : 154468.0/8

Left: 2006.208+/-0.360

χ^2/NDF : 281142.8/18

Right: 6785.150+/-1.344

χ^2/NDF : 4054781.5/34

In: 2328.848+/-0.496

χ^2/NDF : 8085457.1/24

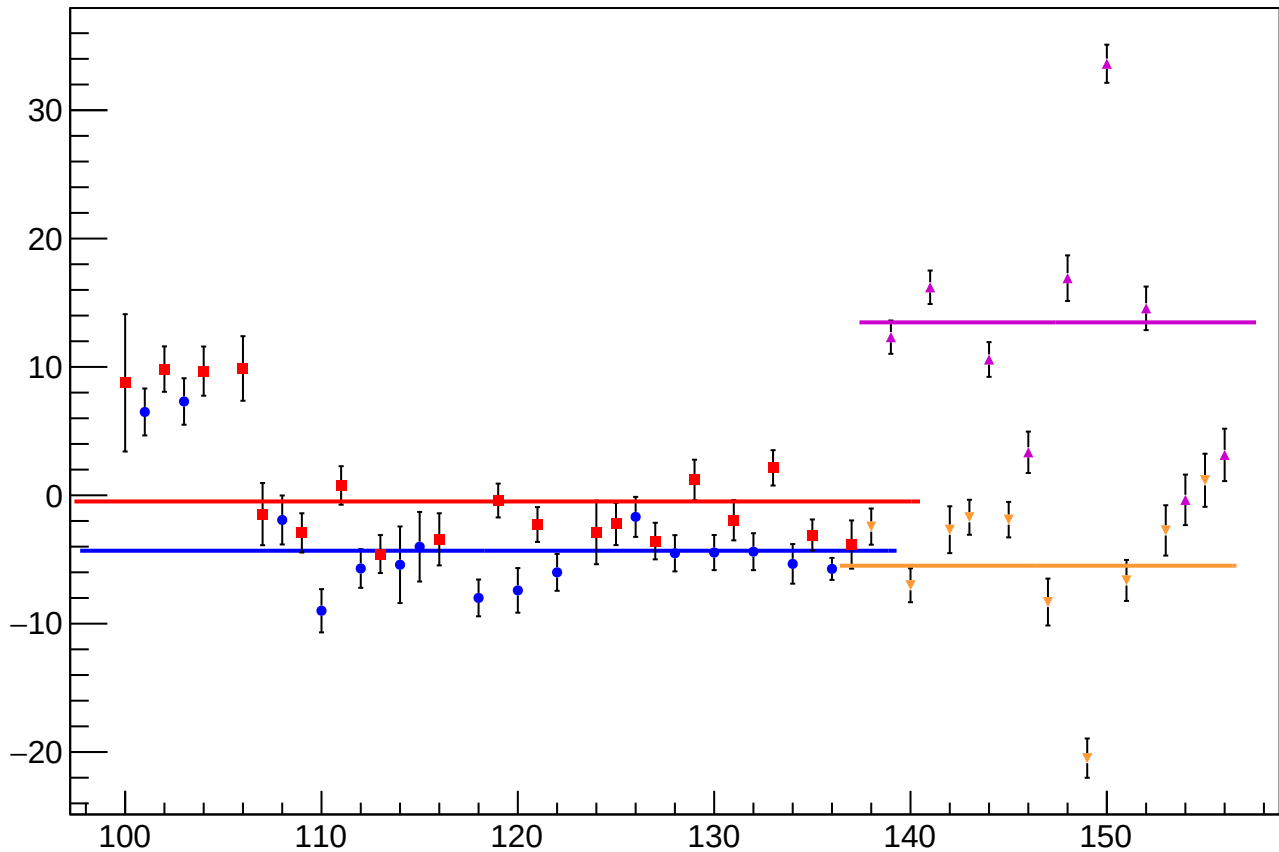
Out: 2323.174+/-0.488

χ^2/NDF : 8044906.1/28

All: 2325.965+/-0.348

χ^2/NDF : 16130429.8/5

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.319 ± 0.380 $\chi^2/\text{NDF}: 103.7/15$

Left Out: -5.486 ± 0.497 $\chi^2/\text{NDF}: 133.9/9$

Right Out: -0.481 ± 0.379 $\chi^2/\text{NDF}: 117.2/18$

Left In: 13.471 ± 0.518 $\chi^2/\text{NDF}: 312.3/8$

Left: 3.602 ± 0.359 $\chi^2/\text{NDF}: 1143.8/18$

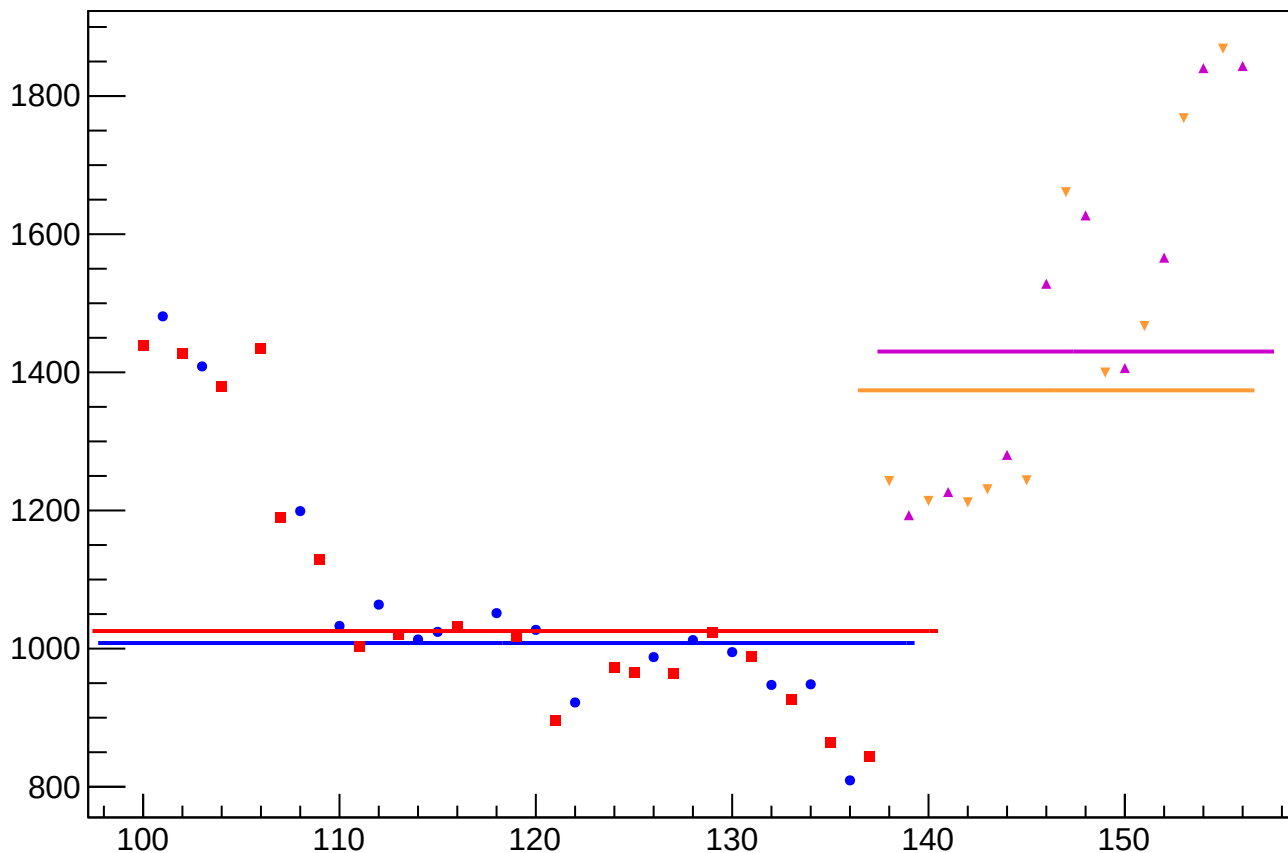
Right: -2.394 ± 0.268 $\chi^2/\text{NDF}: 272.1/34$

In: 1.902 ± 0.306 $\chi^2/\text{NDF}: 1183.4/24$

Out: -2.319 ± 0.301 $\chi^2/\text{NDF}: 315.2/28$

All: -0.244 ± 0.215 $\chi^2/\text{NDF}: 1595.2/53$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1008.116+/-0.269 χ^2/NDF : 378836.2/15

Left Out: 1373.919+/-0.351 χ^2/NDF : 354205.5/9

Right Out: 1025.486+/-0.268 χ^2/NDF : 345991.2/18

Left In: 1430.107+/-0.366 χ^2/NDF : 354137.1/8

Left: 1400.856+/-0.254 χ^2/NDF : 720599.1/18

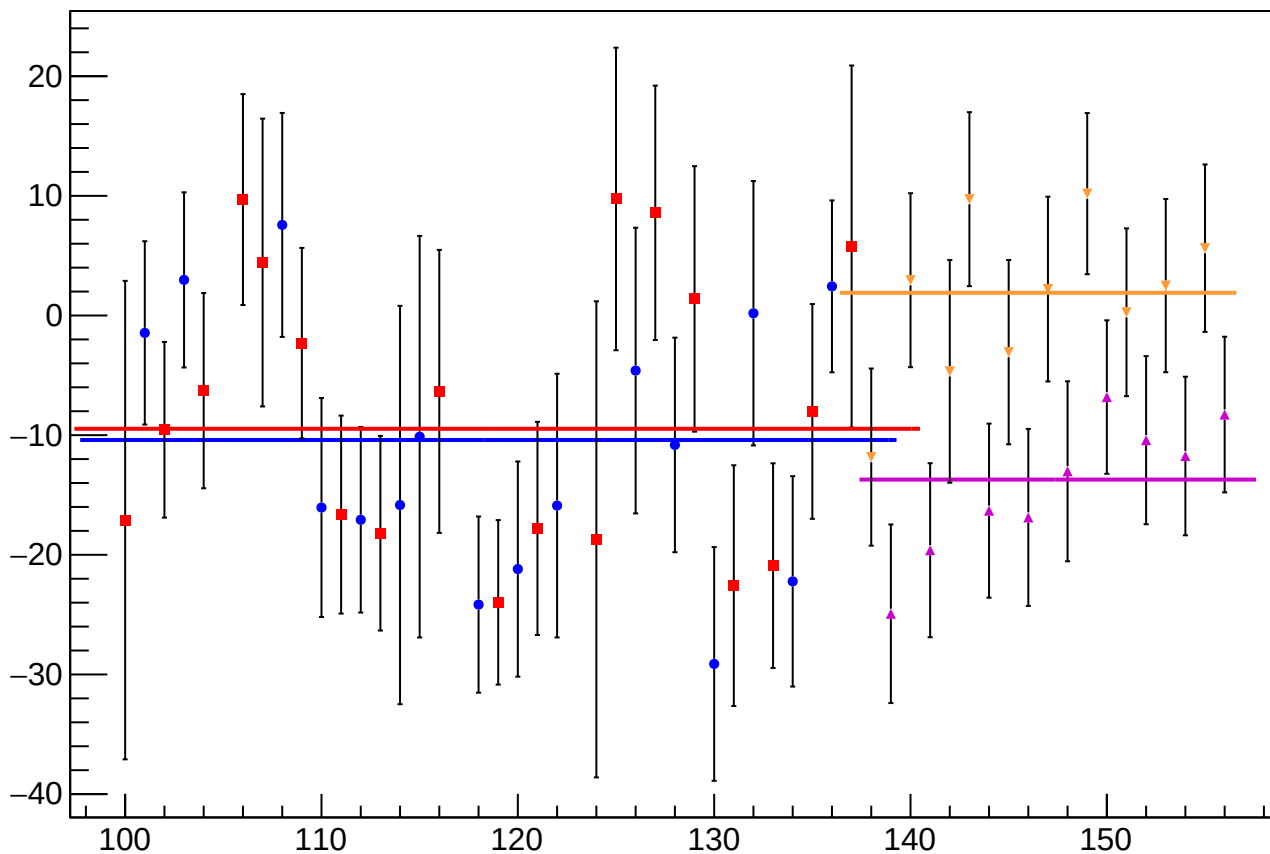
Right: 1016.826+/-0.190 χ^2/NDF : 726925.8/34

In: 1155.675+/-0.217 χ^2/NDF : 1596591.0/24

Out: 1153.467+/-0.213 χ^2/NDF : 1322216.3/28

All: 1154.553+/-0.152 χ^2/NDF : 2918860.1/53

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.404 ± 2.280 $\chi^2/\text{NDF}: 24.6/15$

Left Out: 1.899 ± 2.337 $\chi^2/\text{NDF}: 7.4/9$

Right Out: -9.467 ± 2.191 $\chi^2/\text{NDF}: 25.4/18$

Left In: -13.713 ± 2.340 $\chi^2/\text{NDF}: 5.4/8$

Left: -5.897 ± 1.653 $\chi^2/\text{NDF}: 35.1/18$

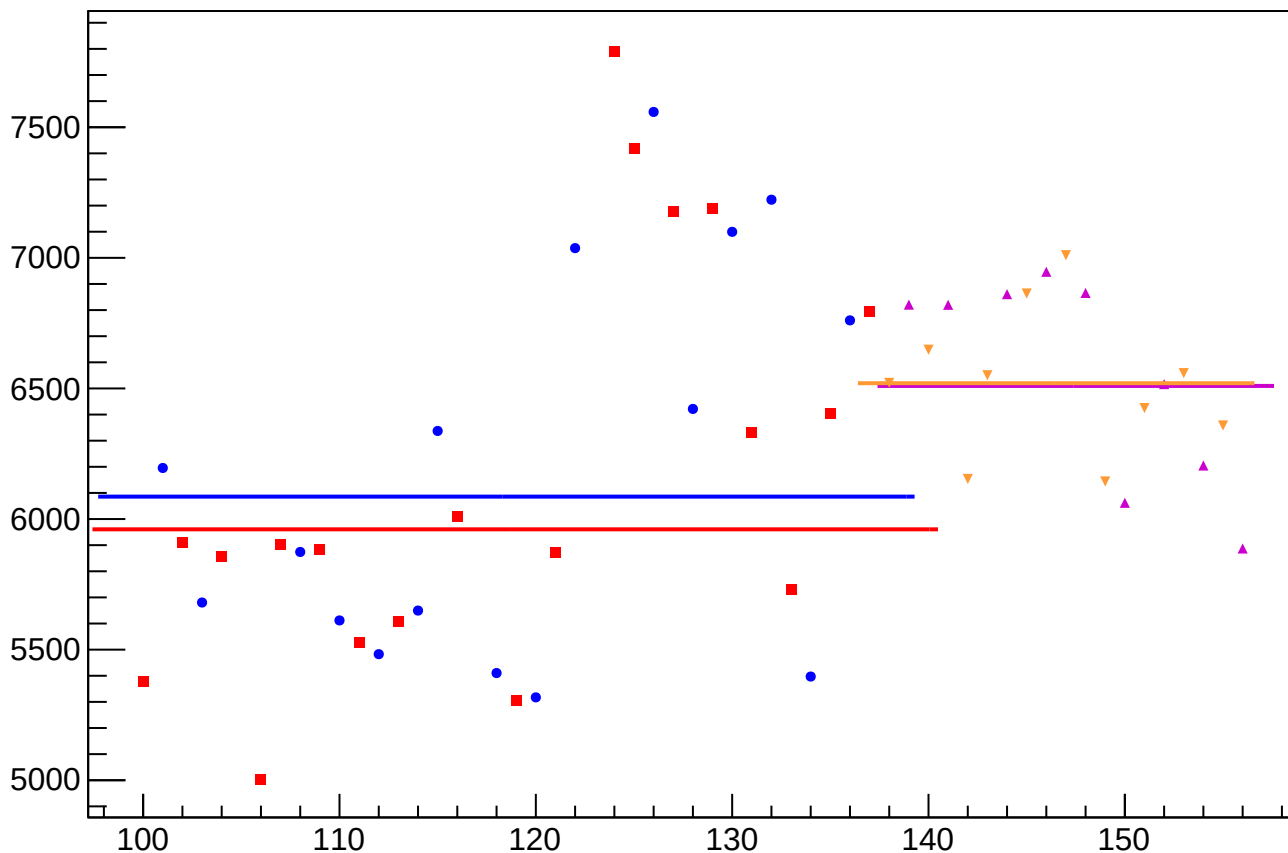
Right: -9.917 ± 1.580 $\chi^2/\text{NDF}: 50.1/34$

In: -12.016 ± 1.633 $\chi^2/\text{NDF}: 31.1/24$

Out: -4.149 ± 1.598 $\chi^2/\text{NDF}: 45.3/28$

All: -7.998 ± 1.142 $\chi^2/\text{NDF}: 88.2/53$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6085.873 $\pm$ 1.612 χ^2 /NDF: 179118.8/15

Left Out: 6520.079 $\pm$ 1.652 χ^2 /NDF:23528.6/9

Right Out: 5960.613 $\pm$ 1.549 χ^2 /NDF: 162772.6/18

Left In: 6509.656 $\pm$ 1.654 χ^2 /NDF:55527.4/8

Left: 6514.874 $\pm$ 1.169 χ^2 /NDF: 79075.8/18

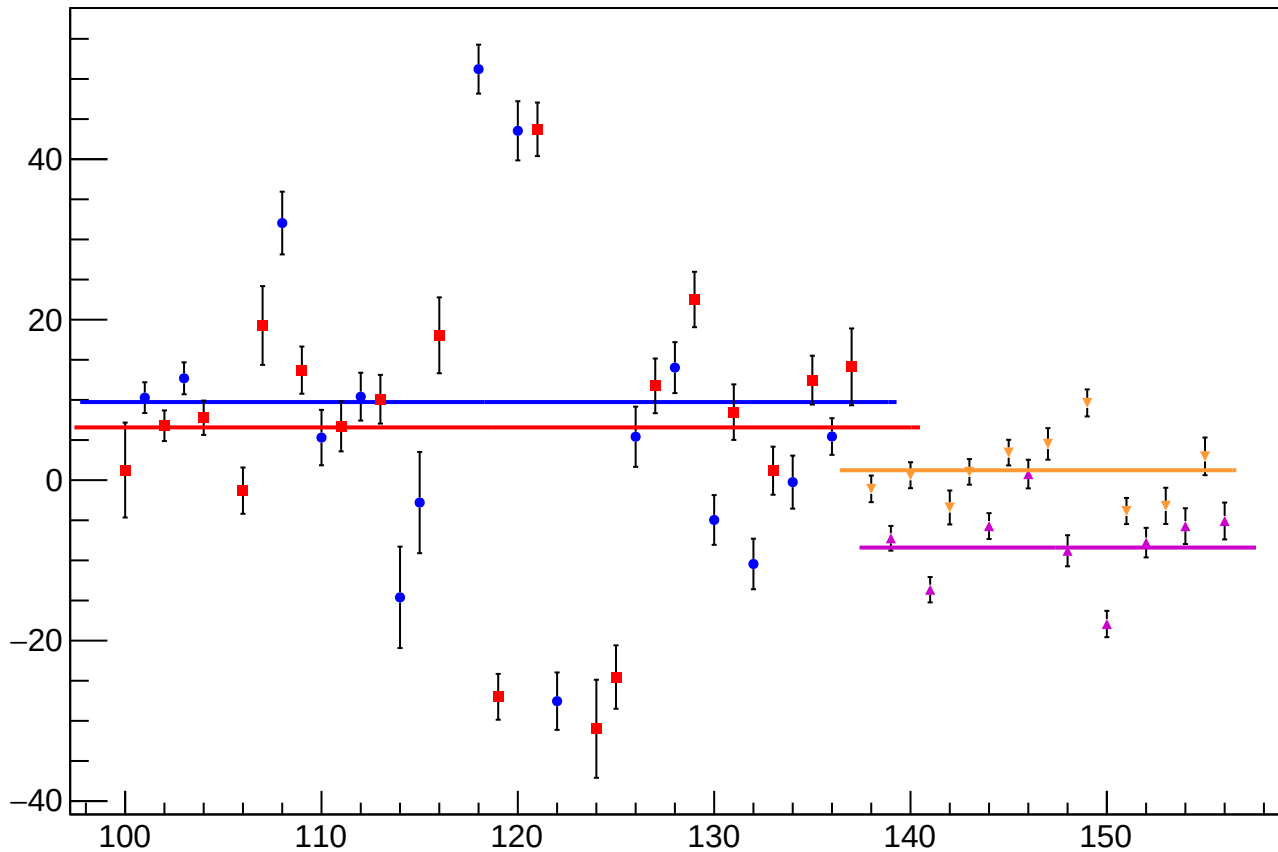
Right: 6020.747 $\pm$ 1.117 χ^2 /NDF: 345029.9/34

In: 6292.297 $\pm$ 1.155 χ^2 /NDF:268301.8/24

Out: 6222.350 $\pm$ 1.130 χ^2 /NDF:247314.4/28

All: 6256.574 $\pm$ 0.808 χ^2 /NDF: 517490.5/53

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.733 ± 0.755 χ^2/NDF : 512.4/15

Left Out: 1.232 ± 0.566 χ^2/NDF : 50.5/9

Right Out: 6.576 ± 0.730 χ^2/NDF : 423.8/18

Left In: -8.401 ± 0.593 χ^2/NDF : 78.0/8

Left: -3.364 ± 0.409 χ^2/NDF : 266.6/18

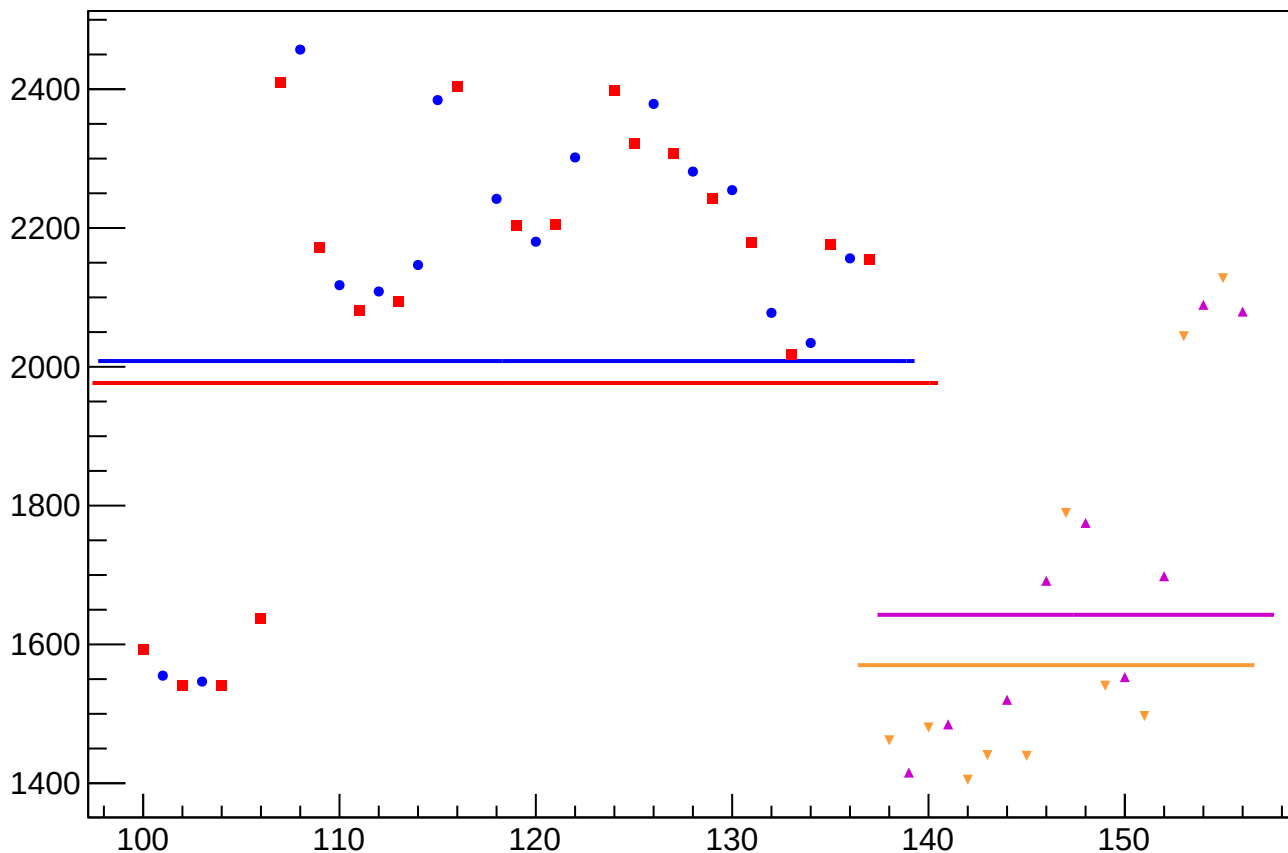
Right: 8.102 ± 0.525 χ^2/NDF : 945.2/34

In: -1.484 ± 0.466 χ^2/NDF : 947.3/24

Out: 3.238 ± 0.447 χ^2/NDF : 507.7/28

All: 0.974 ± 0.323 χ^2/NDF : 1508.4/53

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2008.296 $\pm$ 0.534 χ^2/NDF : 344387.2/15

Left Out: 1570.130 $\pm$ 0.400 χ^2/NDF :284001.1/9

Right Out: 1976.677 $\pm$ 0.516 χ^2/NDF : 365375.1/18

Left In: 1642.655 $\pm$ 0.419 χ^2/NDF :246461.6/8

Left: 1604.731 $\pm$ 0.290 χ^2/NDF : 546116.5/18

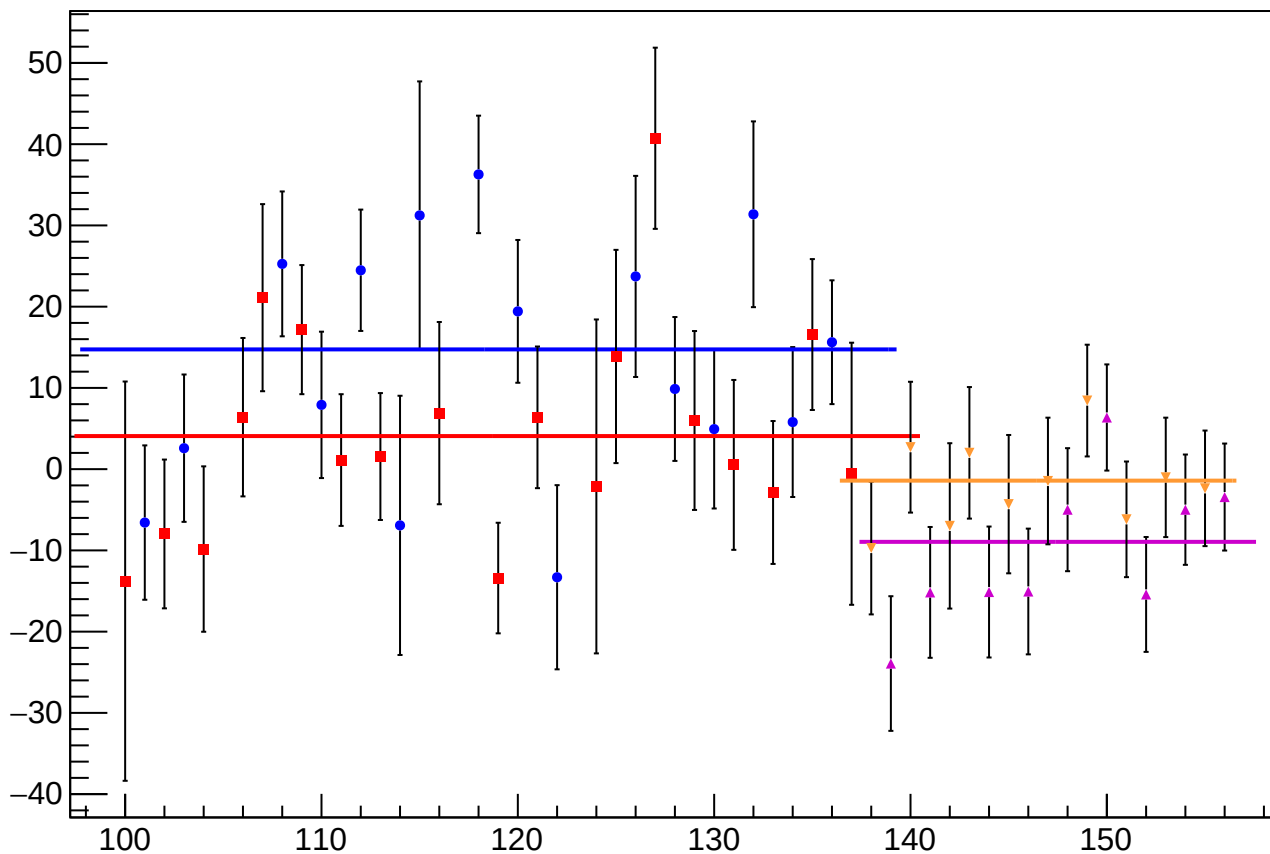
Right: 1991.963 $\pm$ 0.371 χ^2/NDF : 711574.8/34

In: 1782.117 $\pm$ 0.330 χ^2/NDF :881070.3/24

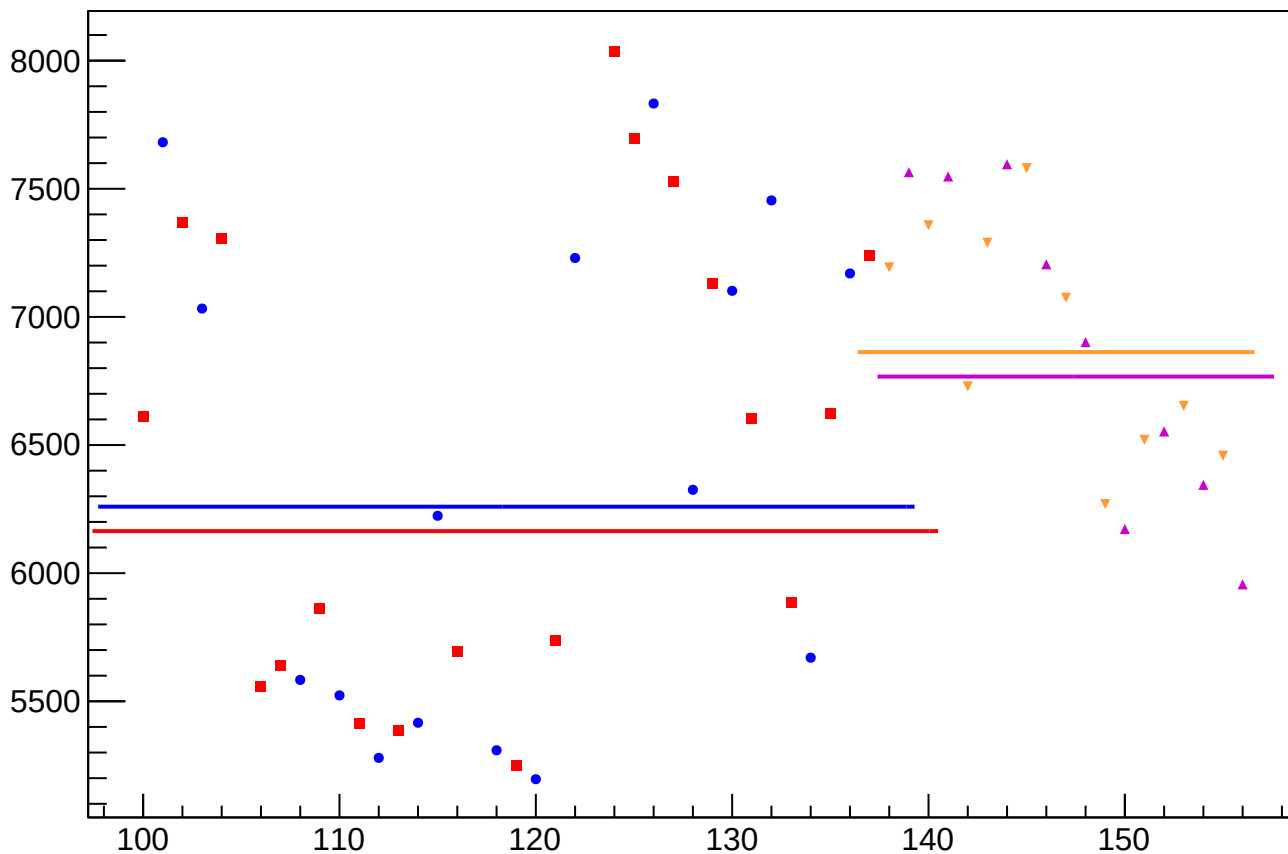
Out: 1722.761 $\pm$ 0.316 χ^2/NDF :1036449.4/28

All: 1751.222 $\pm$ 0.228 χ^2/NDF : 1934392.2/53

diff_bpm0l06X_mean vs Slug, Sign Corrected



diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6259.416 $\pm$ 1.667 χ^2/NDF : 308606.8/15

Left Out: 6862.762 $\pm$ 1.742 χ^2/NDF : 60036.4/9

Right Out: 6164.140 $\pm$ 1.608 χ^2/NDF : 265058.6/18

Left In: 6767.152 $\pm$ 1.727 χ^2/NDF : 121985.0/8

Left: 6814.529 $\pm$ 1.226 χ^2/NDF : 183540.9/18

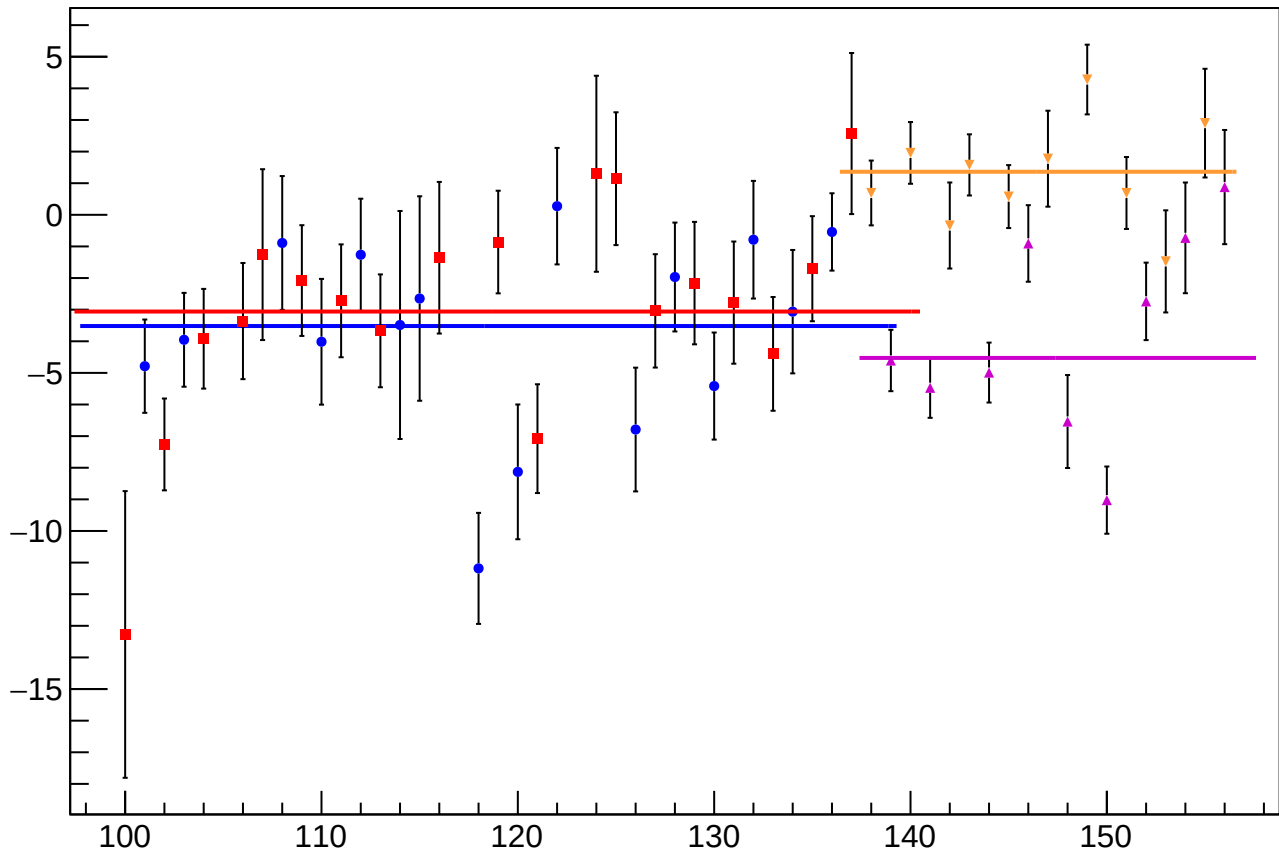
Right: 6210.053 $\pm$ 1.157 χ^2/NDF : 575357.6/34

In: 6504.379 $\pm$ 1.199 χ^2/NDF : 475344.4/24

Out: 6485.472 $\pm$ 1.182 χ^2/NDF : 411939.2/28

All: 6494.785 $\pm$ 0.842 χ^2/NDF : 887409.7/53

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.518 ± 0.452 $\chi^2/\text{NDF}: 45.1/15$

Left Out: 1.362 ± 0.368 $\chi^2/\text{NDF}: 14.3/9$

Right Out: -3.059 ± 0.438 $\chi^2/\text{NDF}: 34.8/18$

Left In: -4.527 ± 0.389 $\chi^2/\text{NDF}: 45.7/8$

Left: -1.422 ± 0.267 $\chi^2/\text{NDF}: 180.9/18$

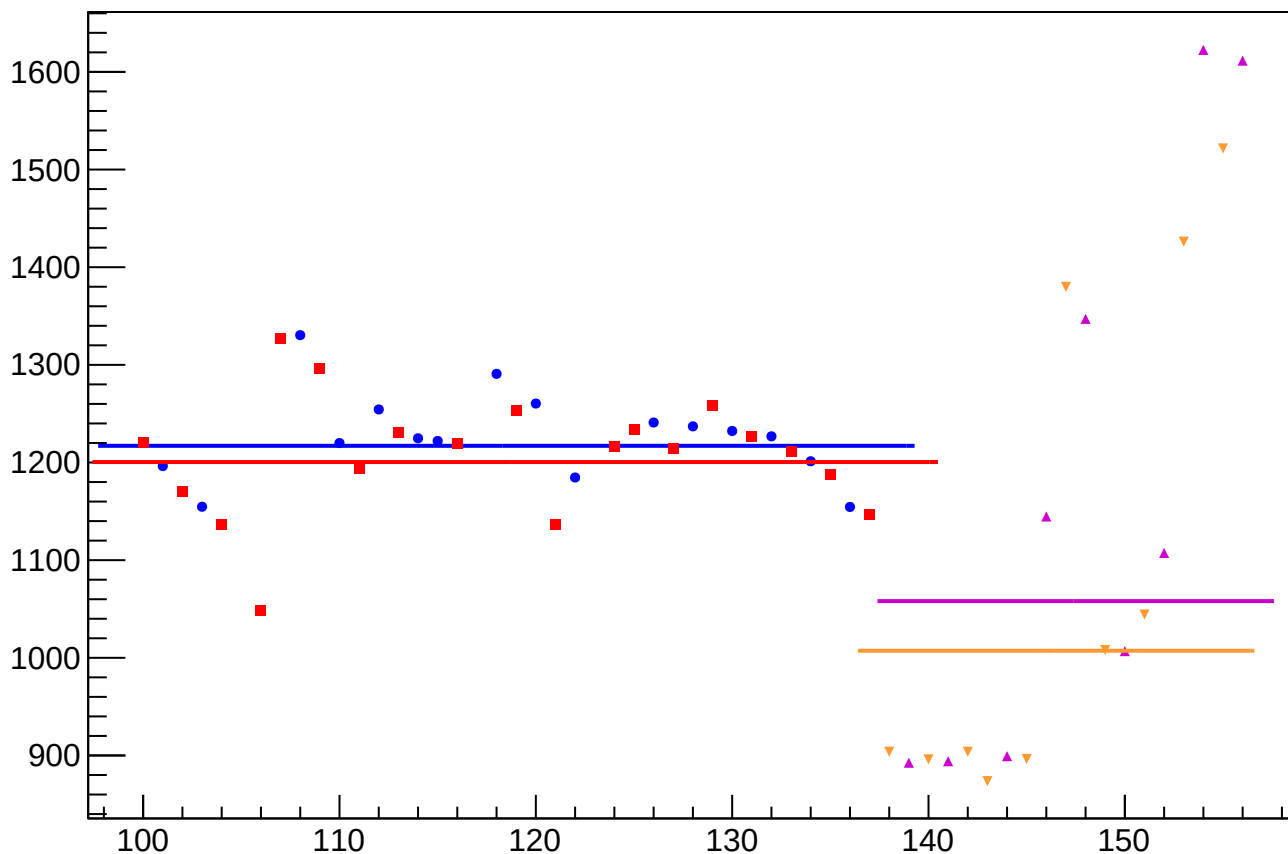
Right: -3.281 ± 0.315 $\chi^2/\text{NDF}: 80.4/34$

In: -4.098 ± 0.295 $\chi^2/\text{NDF}: 93.7/24$

Out: -0.468 ± 0.282 $\chi^2/\text{NDF}: 108.8/28$

All: -2.201 ± 0.204 $\chi^2/\text{NDF}: 281.6/53$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1217.094+/-0.320 χ^2/NDF : 21686.7/15

Left Out: 1007.254+/-0.260 χ^2/NDF : 556997.1/9

Right Out: 1200.497+/-0.310 χ^2/NDF : 37654.3/18

Left In: 1058.089+/-0.275 χ^2/NDF : 664956.9/8

Left: 1031.289+/-0.189 χ^2/NDF : 1239965.8/18

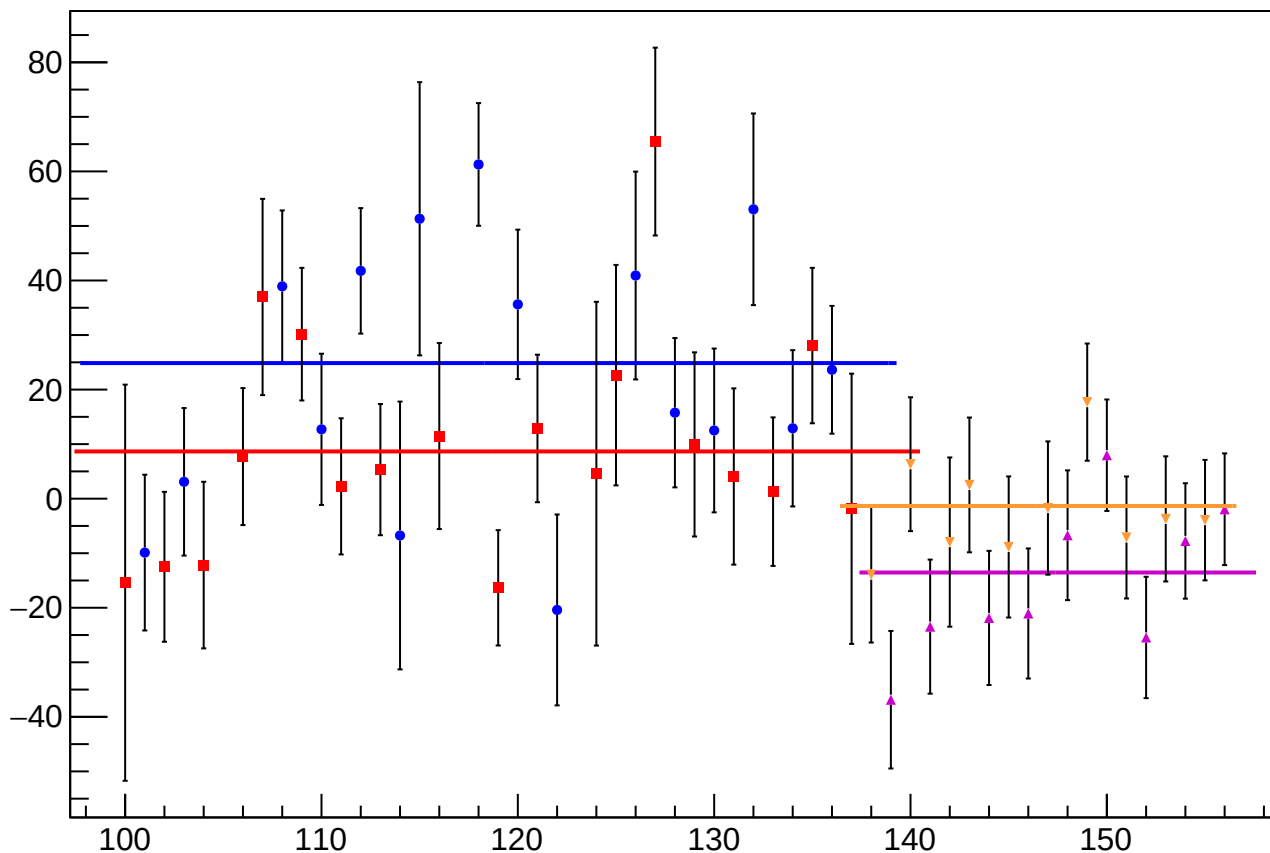
Right: 1208.533+/-0.223 χ^2/NDF : 60729.4/34

In: 1125.664+/-0.209 χ^2/NDF : 828701.4/24

Out: 1087.229+/-0.199 χ^2/NDF : 822481.4/28

All: 1105.585+/-0.144 χ^2/NDF : 1668926.6/53

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 24.860 $\pm$ 3.628 χ^2 /NDF: 38.1/15

Left Out: -1.344 $\pm$ 3.809 χ^2 /NDF:5.5/9

Right Out: 8.658 $\pm$ 3.454 χ^2 /NDF: 30.1/18

Left In: -13.537 $\pm$ 3.787 χ^2 /NDF:12.4/8

Left: -7.477 $\pm$ 2.685 χ^2 /NDF: 23.1/18

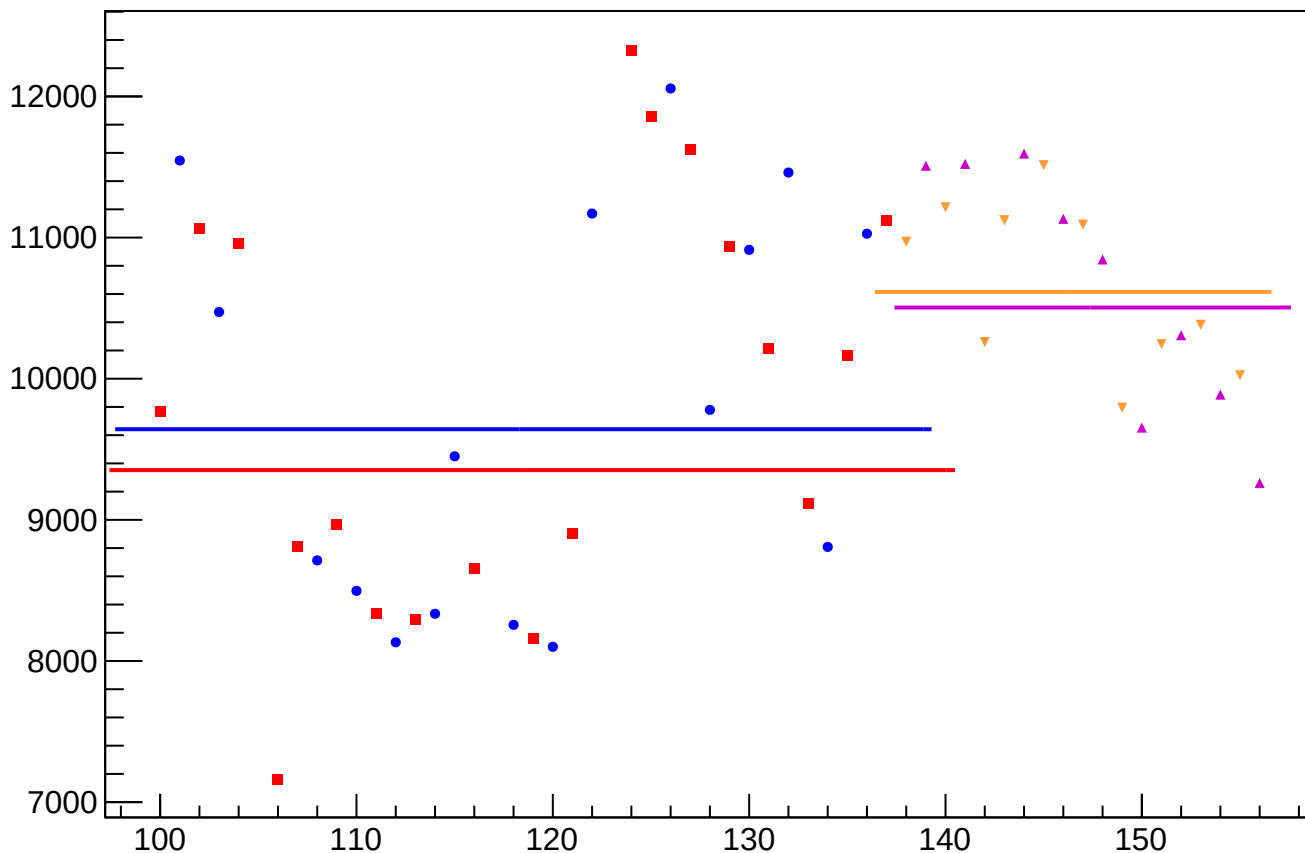
Right: 16.361 $\pm$ 2.501 χ^2 /NDF: 78.7/34

In: 6.482 $\pm$ 2.620 χ^2 /NDF:104.2/24

Out: 4.145 $\pm$ 2.559 χ^2 /NDF:39.5/28

All: 5.286 $\pm$ 1.830 χ^2 /NDF: 144.0/53

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9642.075+/-2.565 χ^2/NDF : 279657.4/15

Left Out: 10615.089+/-2.693 χ^2/NDF : 43906.4/9

Right Out: 9352.503+/-2.442 χ^2/NDF : 301779.3/18

Left In: 10504.318+/-2.678 χ^2/NDF : 100093.9/8

Left: 10559.377+/-1.899 χ^2/NDF : 144851.0/18

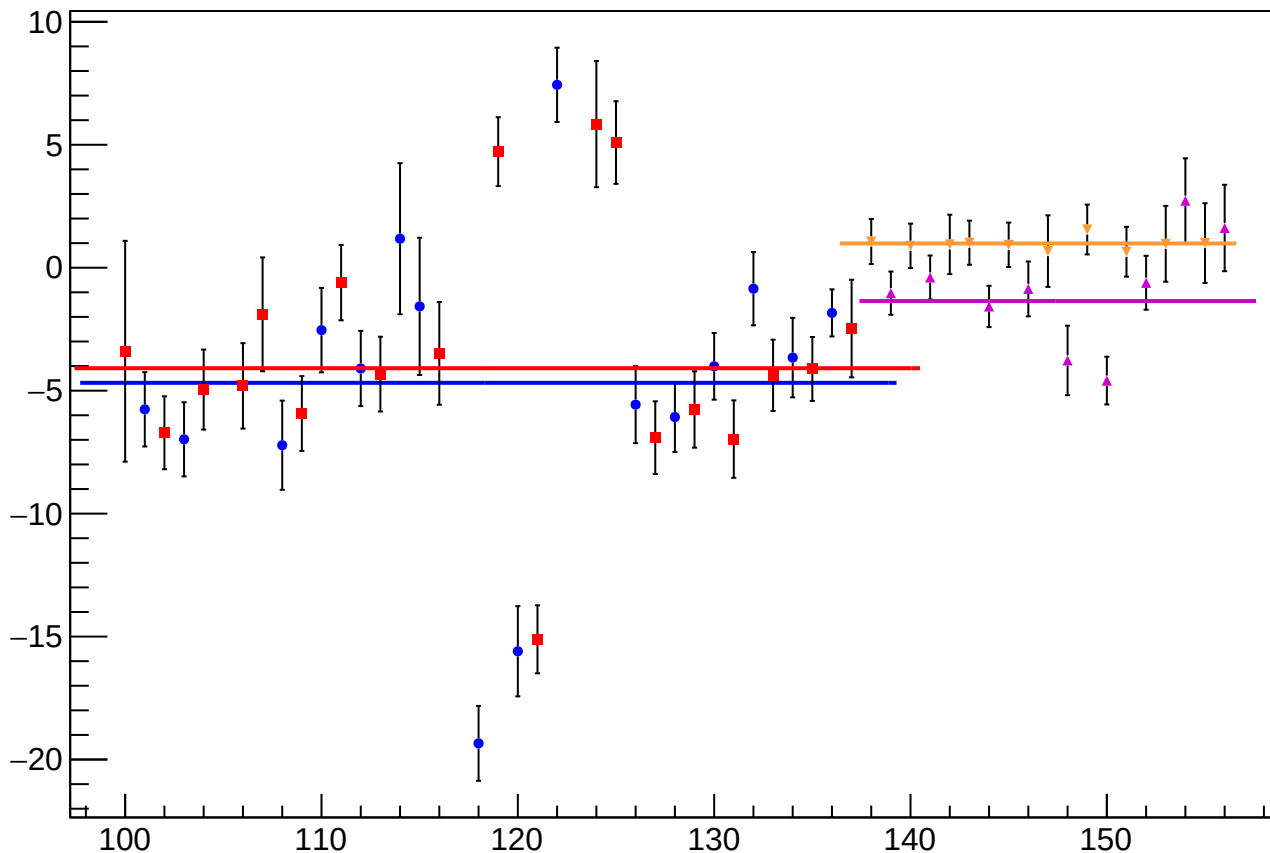
Right: 9490.167+/-1.769 χ^2/NDF : 588120.8/34

In: 10054.757+/-1.852 χ^2/NDF : 433820.6/24

Out: 9922.176+/-1.809 χ^2/NDF : 466285.8/28

All: 9986.902+/-1.294 χ^2/NDF : 902728.2/53

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.681 ± 0.386 χ^2/NDF : 221.2/15

Left Out: 0.986 ± 0.337 χ^2/NDF : 0.5/9

Right Out: -4.087 ± 0.376 χ^2/NDF : 168.1/18

Left In: -1.354 ± 0.358 χ^2/NDF : 24.5/8

Left: -0.115 ± 0.245 χ^2/NDF : 47.7/18

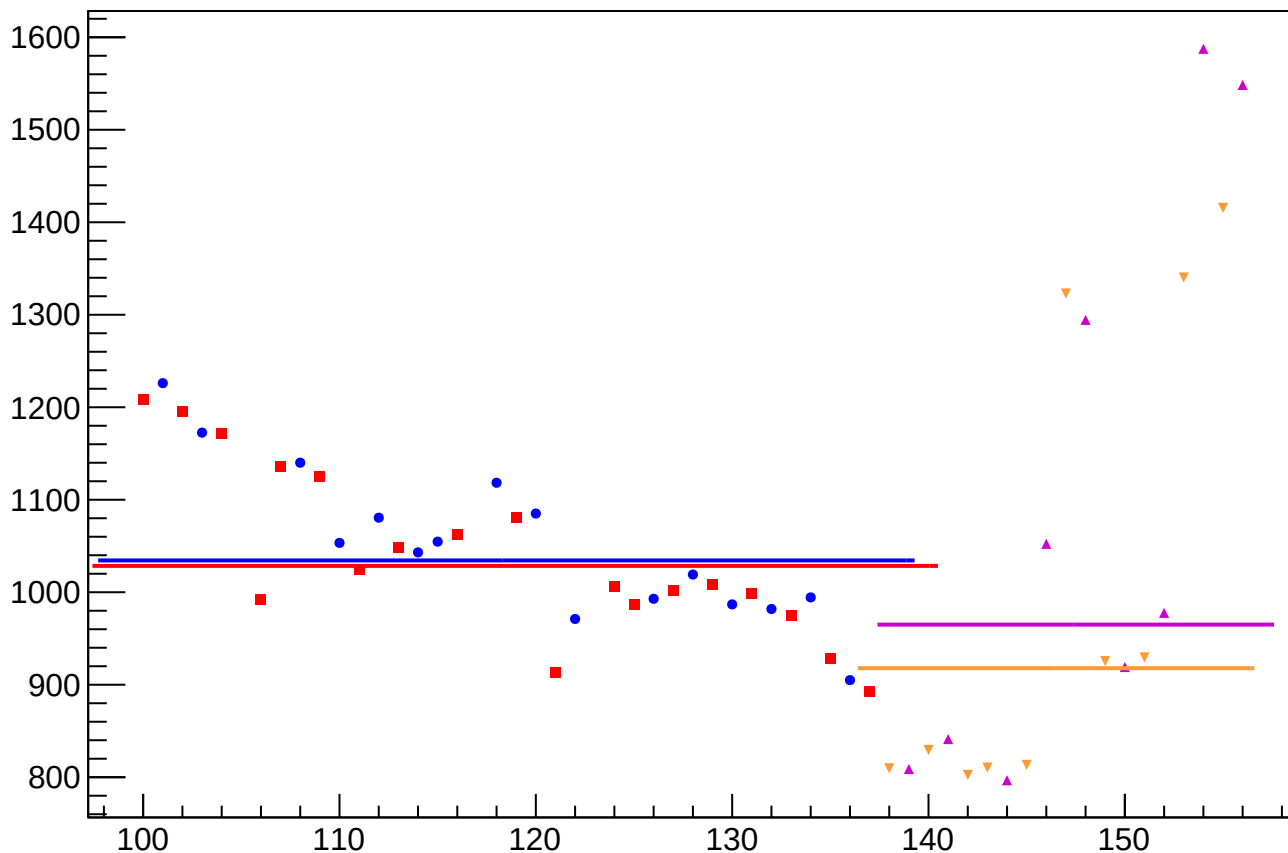
Right: -4.376 ± 0.269 χ^2/NDF : 390.5/34

In: -2.892 ± 0.262 χ^2/NDF : 285.7/24

Out: -1.273 ± 0.251 χ^2/NDF : 269.3/28

All: -2.047 ± 0.181 χ^2/NDF : 574.9/53

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1034.402 +/- 0.273 χ^2/NDF : 113278.6/15

Left Out: 917.851 +/- 0.238 χ^2/NDF : 615175.1/9

Right Out: 1028.501 +/- 0.266 χ^2/NDF : 101624.8/18

Left In: 965.006 +/- 0.253 χ^2/NDF : 788438.5/8

Left: 940.046 +/- 0.173 χ^2/NDF : 1422021.1/18

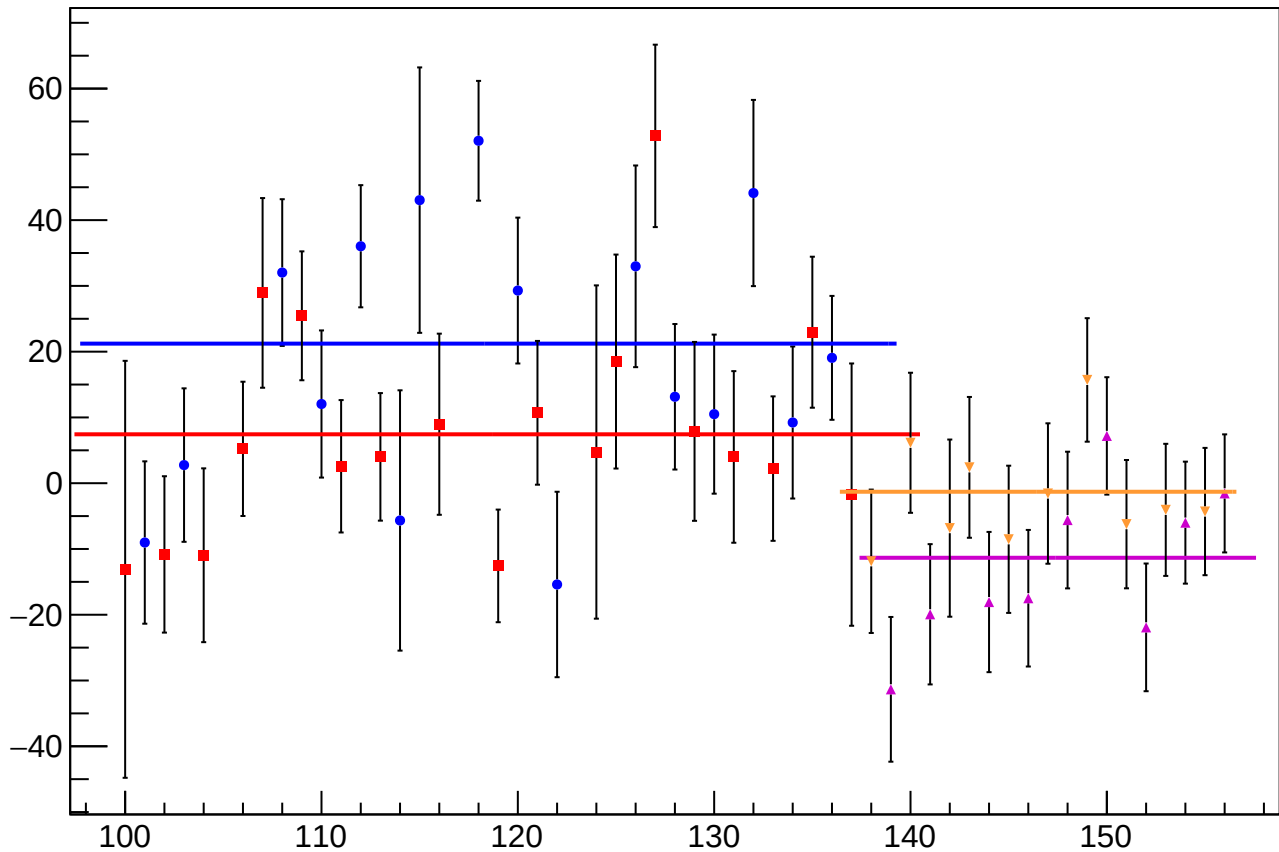
Right: 1031.379 +/- 0.190 χ^2/NDF : 215143.2/34

In: 997.078 +/- 0.185 χ^2/NDF : 936525.2/24

Out: 967.120 +/- 0.178 χ^2/NDF : 812682.2/28

All: 981.451 +/- 0.128 χ^2/NDF : 1762819.3/53

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.222 $\pm$ 2.952 χ^2/NDF : 40.1/15

Left Out: -1.299 $\pm$ 3.321 χ^2/NDF : 5.8/9

Right Out: 7.435 $\pm$ 2.810 χ^2/NDF : 29.8/18

Left In: -11.338 $\pm$ 3.304 χ^2/NDF : 12.0/8

Left: -6.344 $\pm$ 2.342 χ^2/NDF : 22.5/18

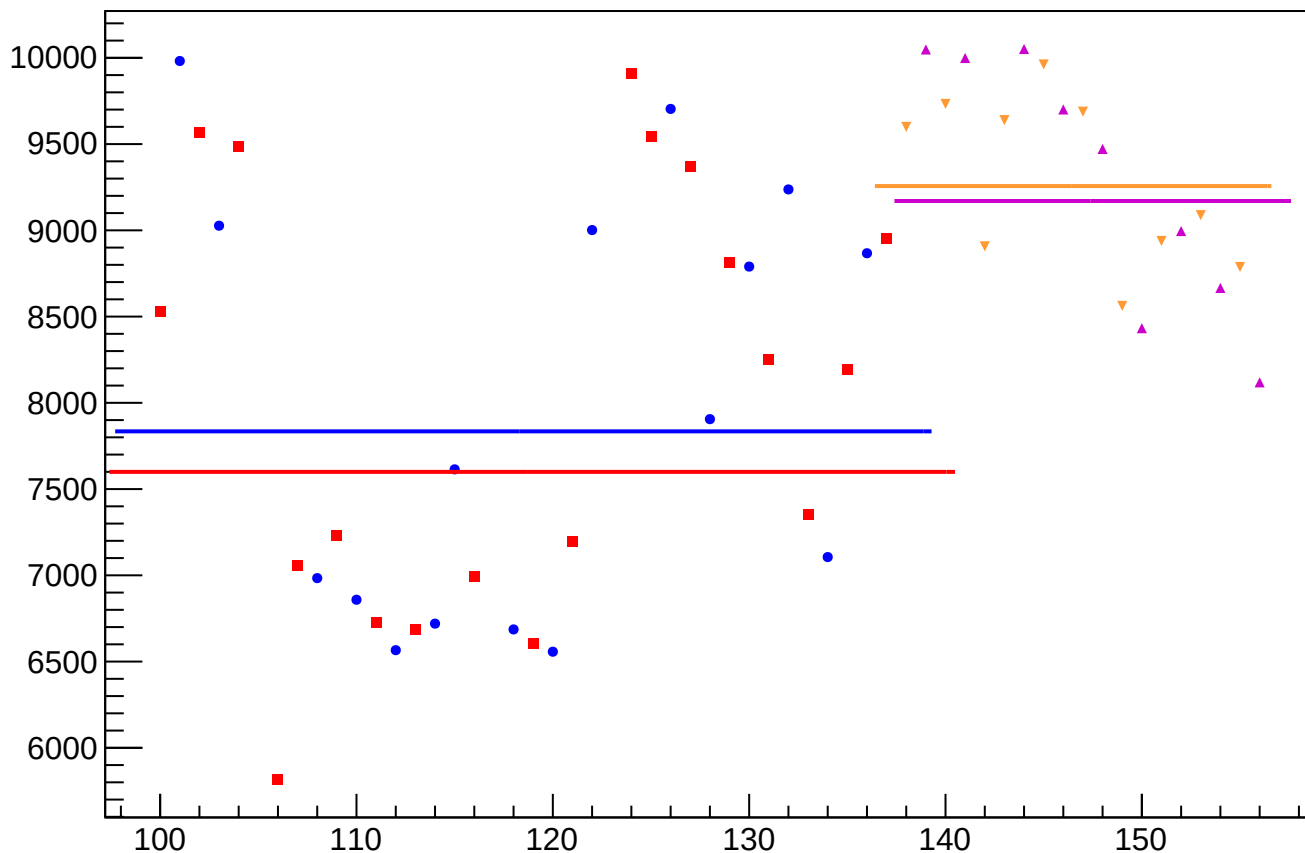
Right: 13.990 $\pm$ 2.035 χ^2/NDF : 81.3/34

In: 6.771 $\pm$ 2.201 χ^2/NDF : 106.1/24

Out: 3.791 $\pm$ 2.145 χ^2/NDF : 39.7/28

All: 5.243 $\pm$ 1.536 χ^2/NDF : 146.7/53

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7834.618 $\pm$ 2.087 χ^2 /NDF: 318089.6/15

Left Out: 9256.684 $\pm$ 2.348 χ^2 /NDF:39419.1/9

Right Out: 7599.749 $\pm$ 1.987 χ^2 /NDF: 344296.8/18

Left In: 9170.099 $\pm$ 2.337 χ^2 /NDF:93042.8/8

Left: 9213.175 $\pm$ 1.656 χ^2 /NDF: 133145.0/18

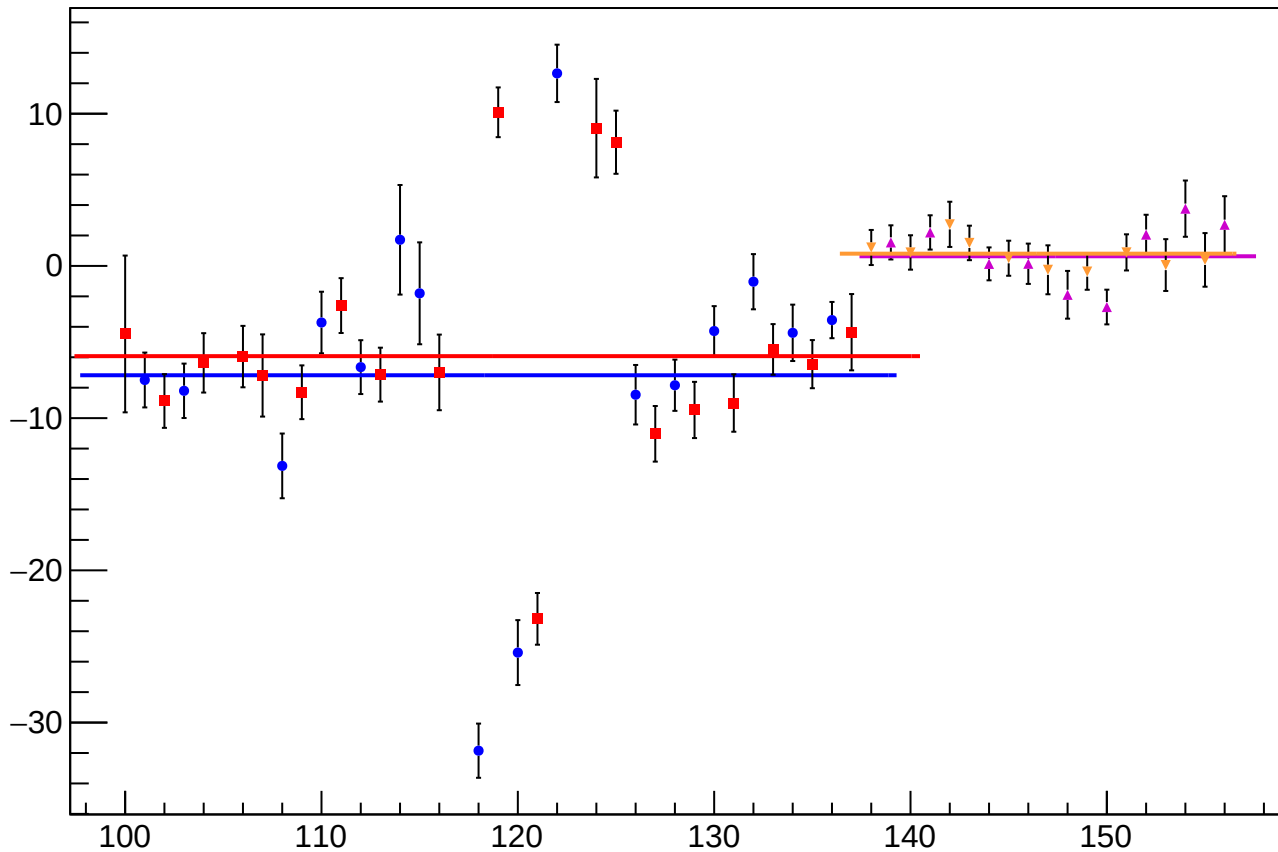
Right: 7711.419 $\pm$ 1.439 χ^2 /NDF: 669028.2/34

In: 8427.326 $\pm$ 1.557 χ^2 /NDF:592824.2/24

Out: 8291.164 $\pm$ 1.517 χ^2 /NDF:673829.8/28

All: 8357.488 $\pm$ 1.086 χ^2 /NDF: 1270578.5/53

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.183 ± 0.462 $\chi^2/\text{NDF}: 422.2/15$

Left Out: 0.805 ± 0.409 $\chi^2/\text{NDF}: 3.9/9$

Right Out: -5.927 ± 0.449 $\chi^2/\text{NDF}: 290.4/18$

Left In: 0.634 ± 0.432 $\chi^2/\text{NDF}: 19.4/8$

Left: 0.724 ± 0.297 $\chi^2/\text{NDF}: 23.4/18$

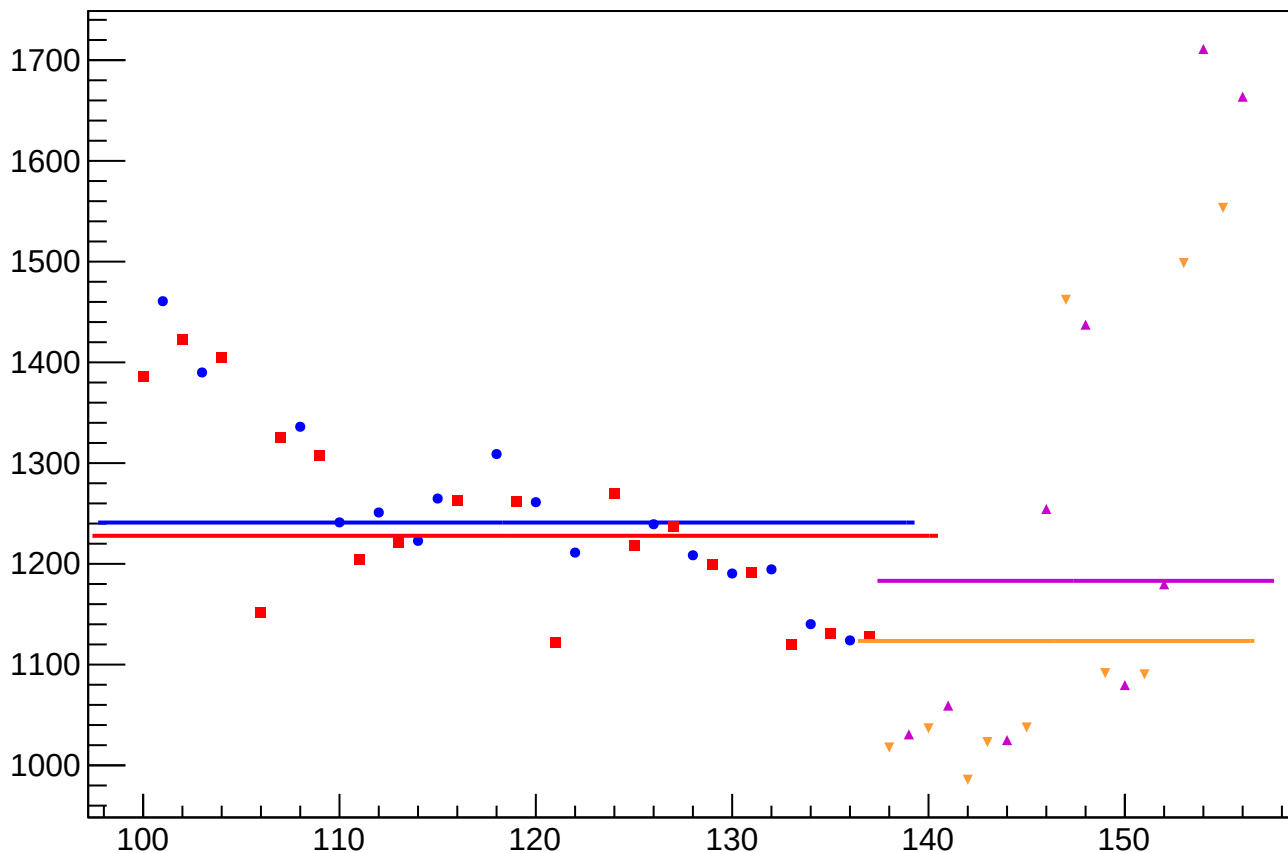
Right: -6.537 ± 0.322 $\chi^2/\text{NDF}: 716.4/34$

In: -3.013 ± 0.316 $\chi^2/\text{NDF}: 594.1/24$

Out: -2.244 ± 0.302 $\chi^2/\text{NDF}: 417.2/28$

All: -2.612 ± 0.218 $\chi^2/\text{NDF}: 1014.4/53$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1241.007 $\pm$ 0.327 χ^2 /NDF: 80653.5/15

Left Out: 1123.490 $\pm$ 0.289 χ^2 /NDF:380648.8/9

Right Out: 1227.864 $\pm$ 0.318 χ^2 /NDF: 82339.2/18

Left In: 1183.135 $\pm$ 0.306 χ^2 /NDF:473362.4/8

Left: 1151.635 $\pm$ 0.210 χ^2 /NDF: 874112.5/18

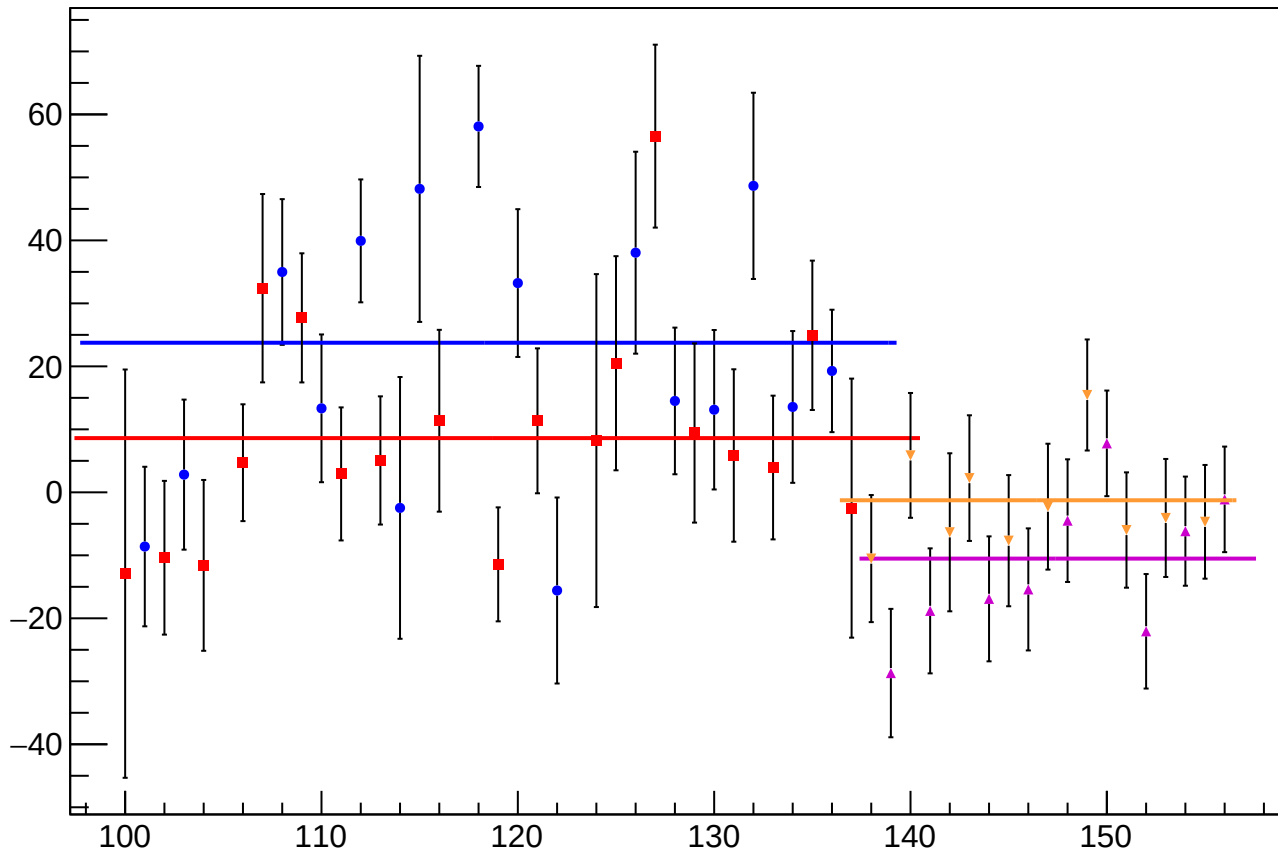
Right: 1234.245 $\pm$ 0.228 χ^2 /NDF: 163824.2/34

In: 1210.135 $\pm$ 0.223 χ^2 /NDF:570732.8/24

Out: 1170.763 $\pm$ 0.214 χ^2 /NDF:522070.7/28

All: 1189.589 $\pm$ 0.154 χ^2 /NDF: 1109026.7/53

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.750 $\pm$ 3.081 χ^2 /NDF: 43.4/15

Left Out: -1.260 $\pm$ 3.099 χ^2 /NDF: 6.1/9

Right Out: 8.609 $\pm$ 2.899 χ^2 /NDF: 30.5/18

Left In: -10.521 $\pm$ 3.085 χ^2 /NDF: 12.8/8

Left: -5.911 $\pm$ 2.187 χ^2 /NDF: 23.4/18

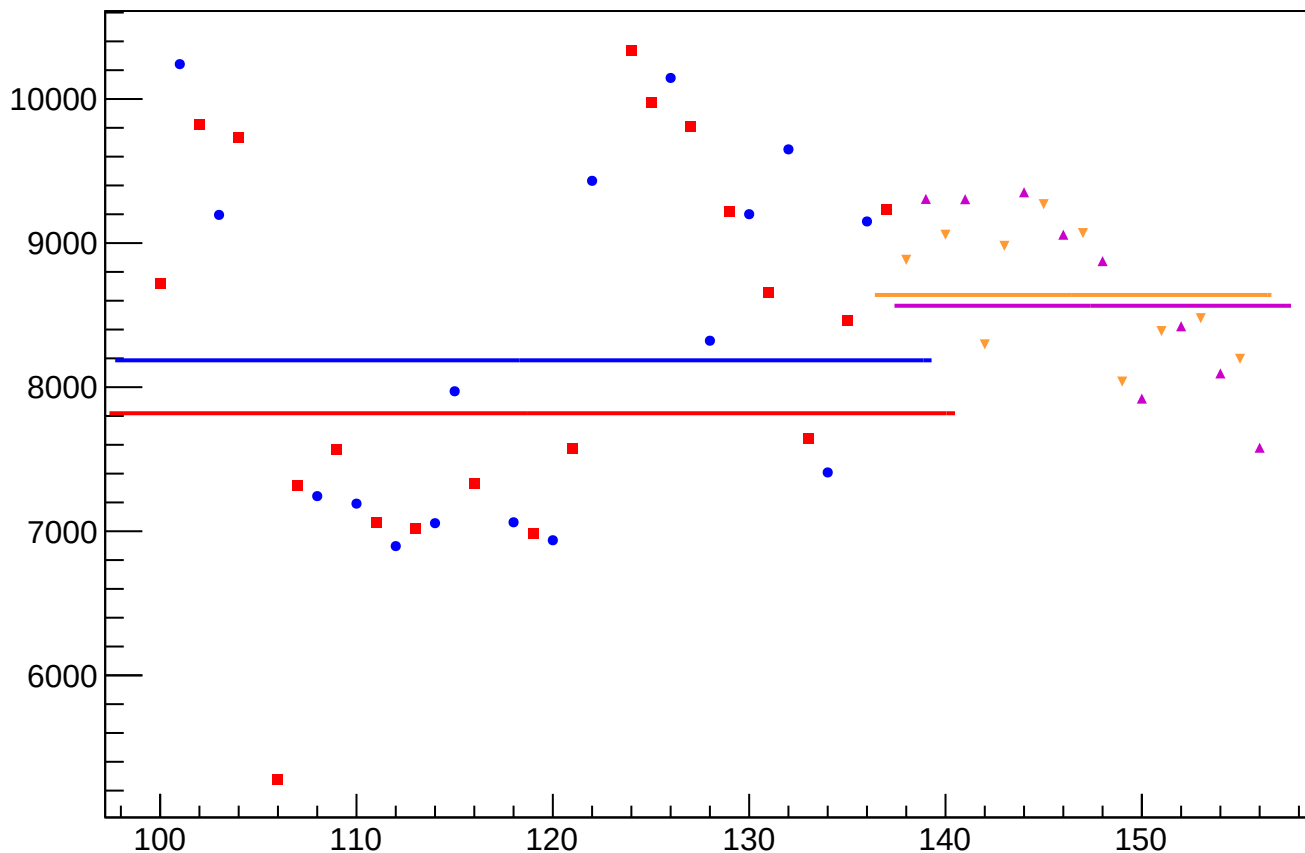
Right: 15.718 $\pm$ 2.111 χ^2 /NDF: 86.7/34

In: 6.637 $\pm$ 2.180 χ^2 /NDF: 118.0/24

Out: 4.003 $\pm$ 2.117 χ^2 /NDF: 42.0/28

All: 5.281 $\pm$ 1.519 χ^2 /NDF: 160.8/53

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8186.361+/-2.179 χ^2/NDF : 290628.8/15

Left Out: 8640.052+/-2.191 χ^2/NDF : 35785.2/9

Right Out: 7818.965+/-2.050 χ^2/NDF : 422998.1/18

Left In: 8565.113+/-2.182 χ^2/NDF : 87336.5/8

Left: 8602.417+/-1.546 χ^2/NDF : 123709.0/18

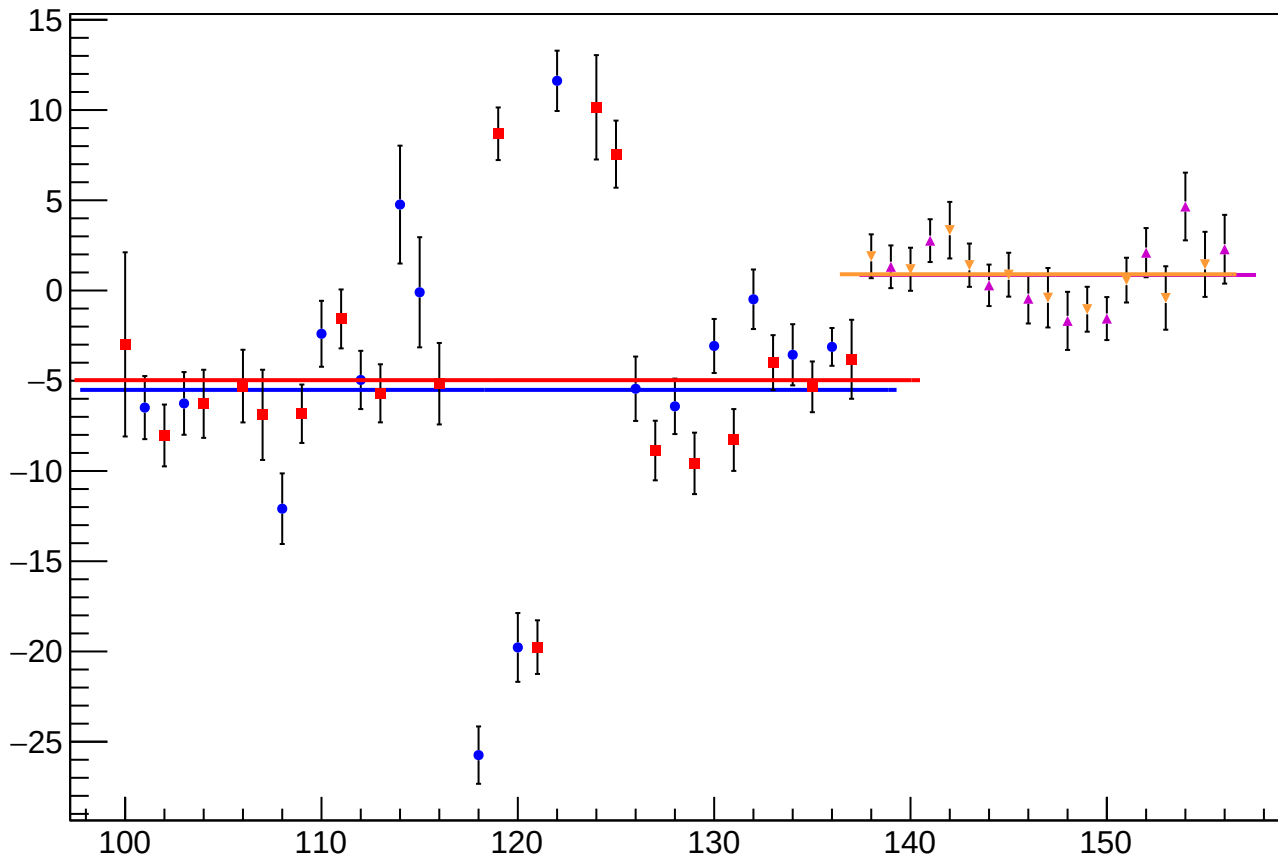
Right: 7991.468+/-1.493 χ^2/NDF : 728709.0/34

In: 8375.486+/-1.542 χ^2/NDF : 393053.5/24

Out: 8202.142+/-1.497 χ^2/NDF : 533655.4/28

All: 8286.265+/-1.074 χ^2/NDF : 933215.6/53

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.506 ± 0.421 χ^2/NDF : 369.8/15

Left Out: 0.900 ± 0.428 χ^2/NDF : 7.1/9

Right Out: -4.967 ± 0.410 χ^2/NDF : 287.3/18

Left In: 0.861 ± 0.452 χ^2/NDF : 16.0/8

Left: 0.882 ± 0.311 χ^2/NDF : 23.1/18

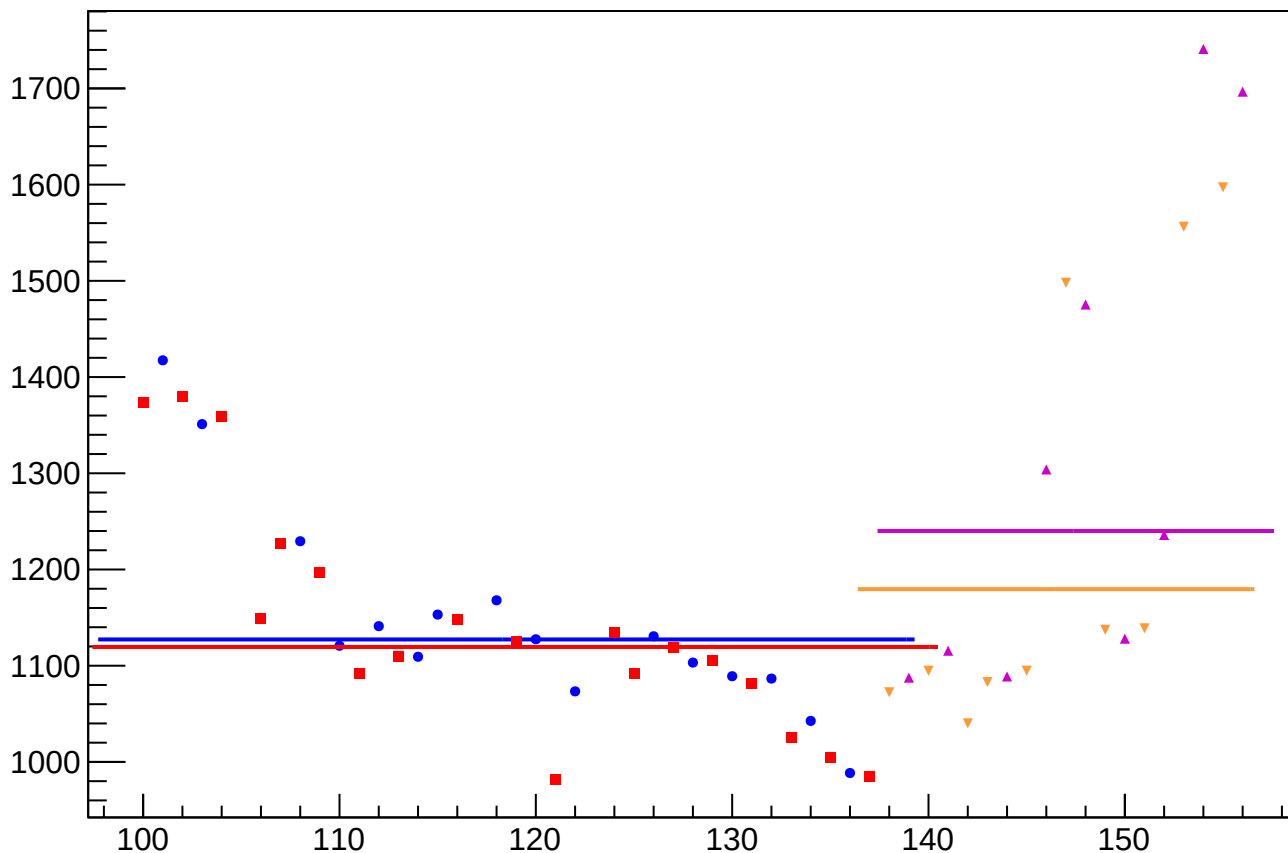
Right: -5.230 ± 0.294 χ^2/NDF : 657.9/34

In: -2.547 ± 0.308 χ^2/NDF : 492.1/24

Out: -2.158 ± 0.296 χ^2/NDF : 392.3/28

All: -2.345 ± 0.213 χ^2/NDF : 885.3/53

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1127.290+/-0.298 χ^2/NDF : 140615.8/15

Left Out: 1179.603+/-0.303 χ^2/NDF : 342524.5/9

Right Out: 1119.473+/-0.290 χ^2/NDF : 140736.0/18

Left In: 1240.015+/-0.319 χ^2/NDF : 412175.4/8

Left: 1208.188+/-0.220 χ^2/NDF : 773543.9/18

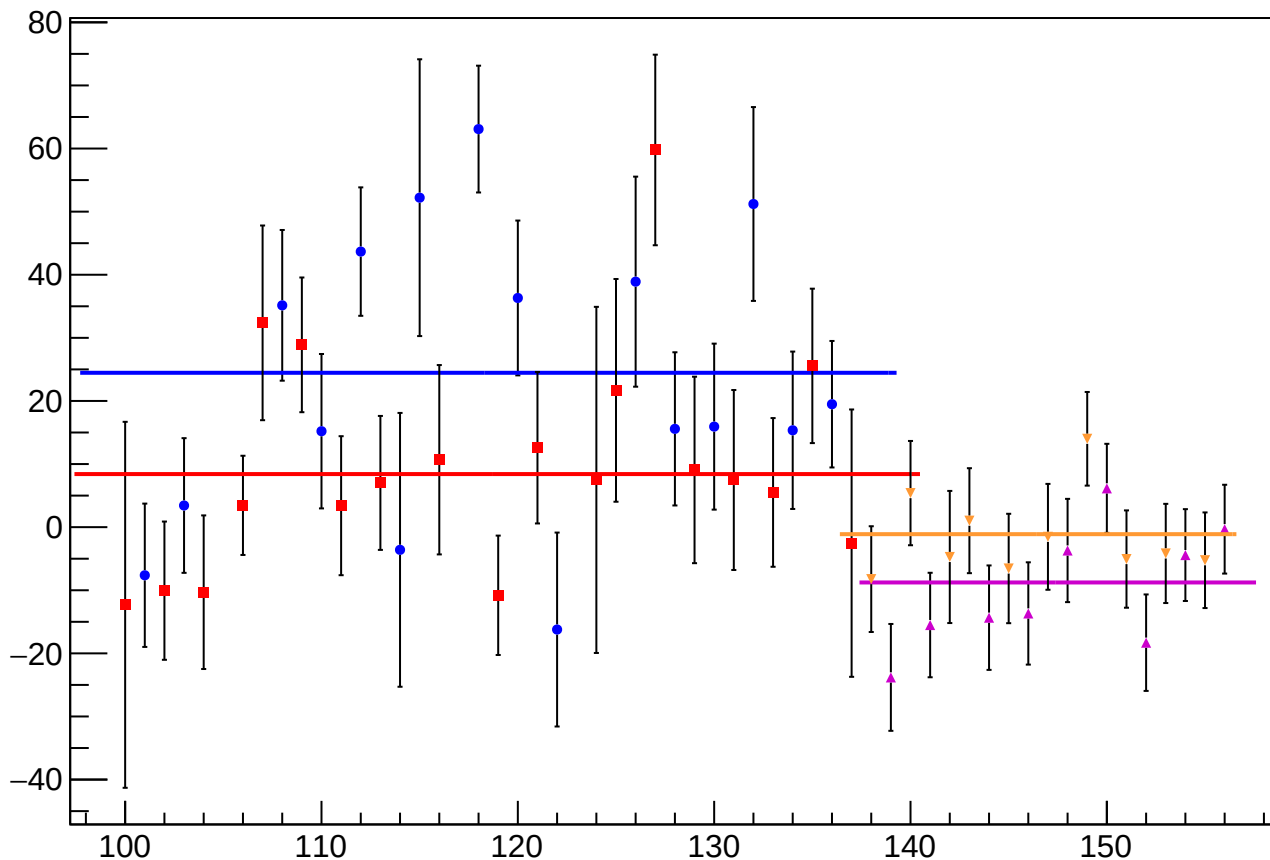
Right: 1123.282+/-0.208 χ^2/NDF : 281705.5/34

In: 1179.670+/-0.218 χ^2/NDF : 619459.1/24

Out: 1148.264+/-0.209 χ^2/NDF : 503823.8/28

All: 1163.359+/-0.151 χ^2/NDF : 1134087.5/53

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.463 $\pm$ 3.136 χ^2/NDF : 48.3/15

Left Out: -1.110 $\pm$ 2.594 χ^2/NDF : 6.8/9

Right Out: 8.413 $\pm$ 2.891 χ^2/NDF : 31.1/18

Left In: -8.765 $\pm$ 2.586 χ^2/NDF : 12.8/8

Left: -4.951 $\pm$ 1.831 χ^2/NDF : 24.0/18

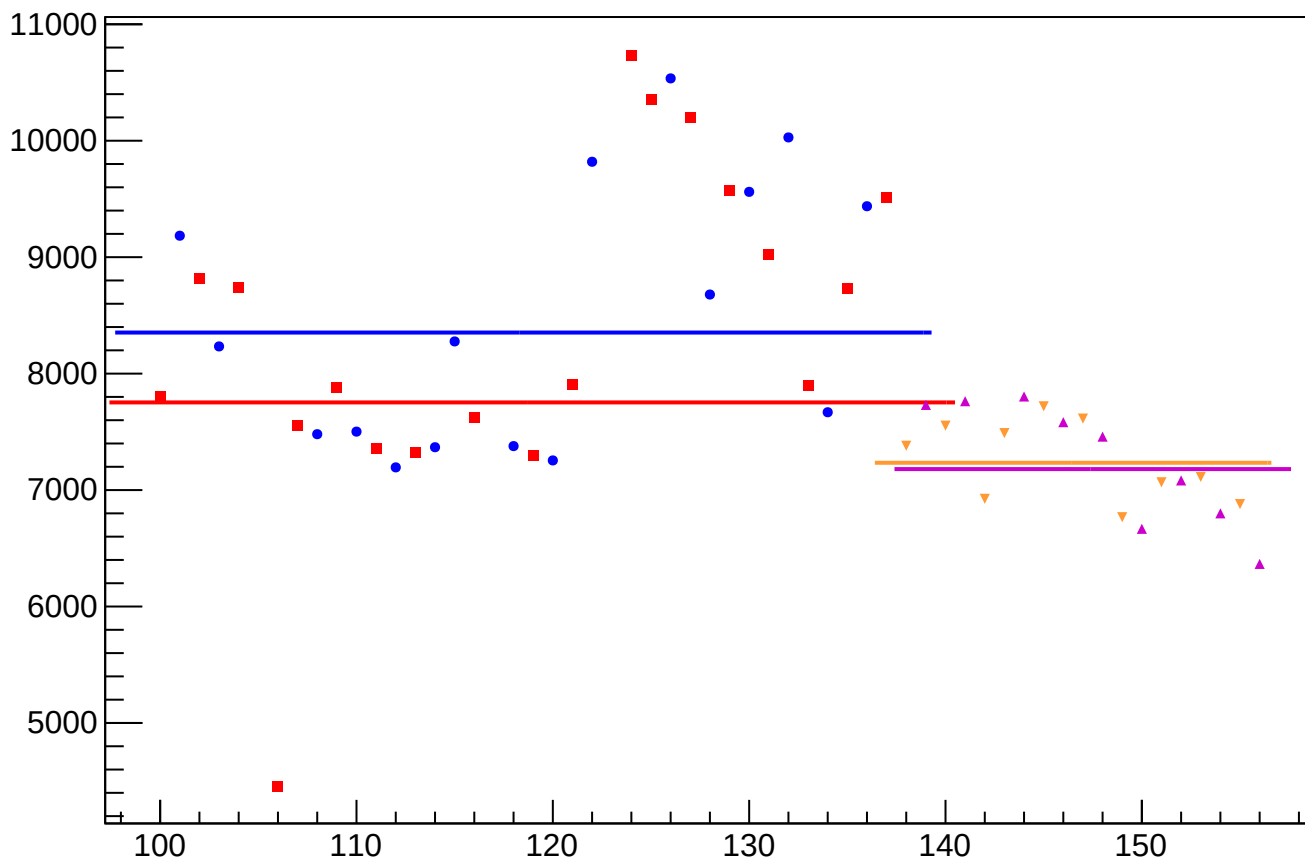
Right: 15.786 $\pm$ 2.126 χ^2/NDF : 93.6/34

In: 4.682 $\pm$ 1.995 χ^2/NDF : 128.0/24

Out: 3.138 $\pm$ 1.931 χ^2/NDF : 43.9/28

All: 3.885 $\pm$ 1.387 χ^2/NDF : 172.2/53

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8352.758 $\pm$ 2.218 χ^2 /NDF: 220412.5/15

Left Out: 7234.471 $\pm$ 1.835 χ^2 /NDF:31299.7/9

Right Out: 7752.674 $\pm$ 2.044 χ^2 /NDF: 588072.1/18

Left In: 7180.269 $\pm$ 1.828 χ^2 /NDF:80106.7/8

Left: 7207.279 $\pm$ 1.295 χ^2 /NDF: 111844.3/18

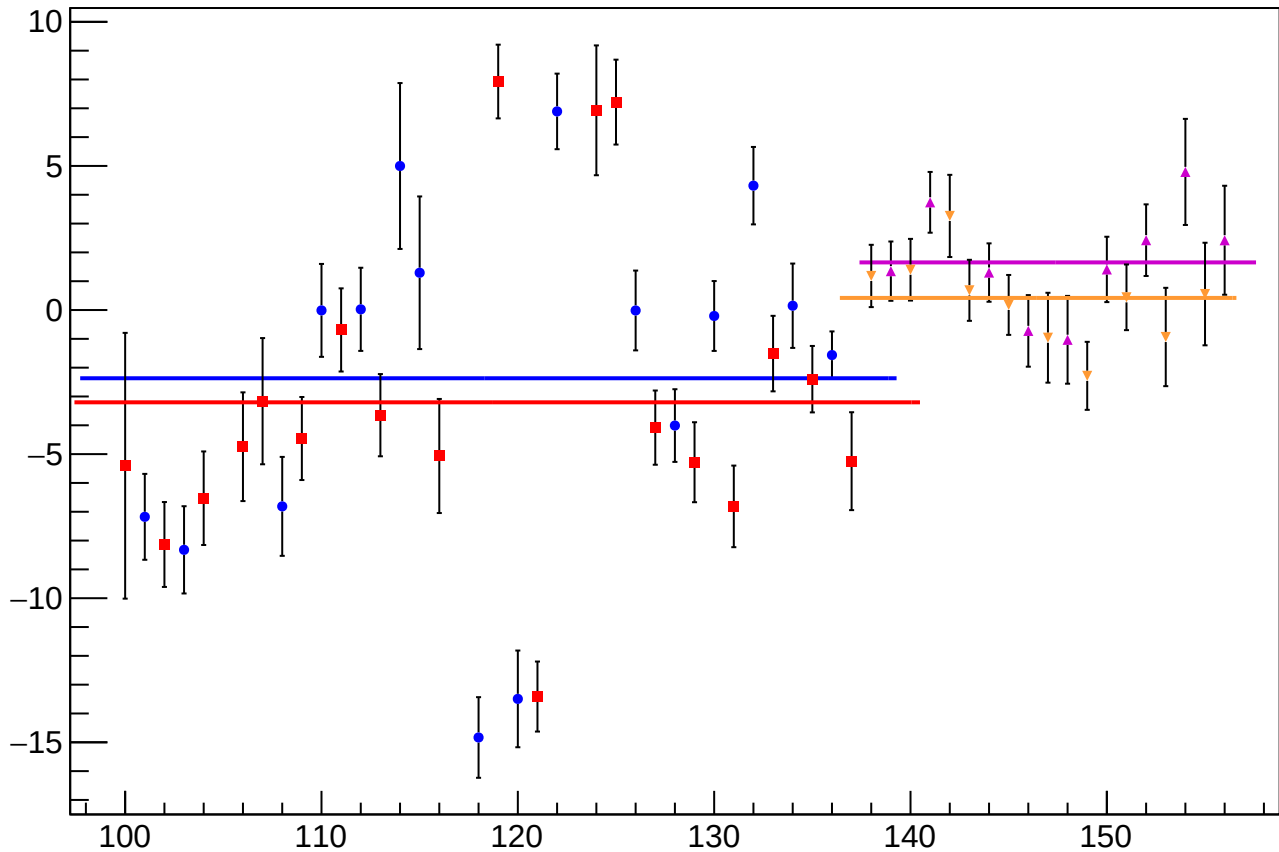
Right: 8028.343 $\pm$ 1.503 χ^2 /NDF: 848071.5/34

In: 7654.760 $\pm$ 1.411 χ^2 /NDF:466937.5/24

Out: 7465.642 $\pm$ 1.365 χ^2 /NDF:654965.9/28

All: 7557.110 $\pm$ 0.981 χ^2 /NDF: 1131182.8/53

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.368 ± 0.350 χ^2/NDF : 255.6/15

Left Out: 0.420 ± 0.389 χ^2/NDF : 12.1/9

Right Out: -3.203 ± 0.346 χ^2/NDF : 250.5/18

Left In: 1.652 ± 0.412 χ^2/NDF : 14.4/8

Left: 1.002 ± 0.283 χ^2/NDF : 31.2/18

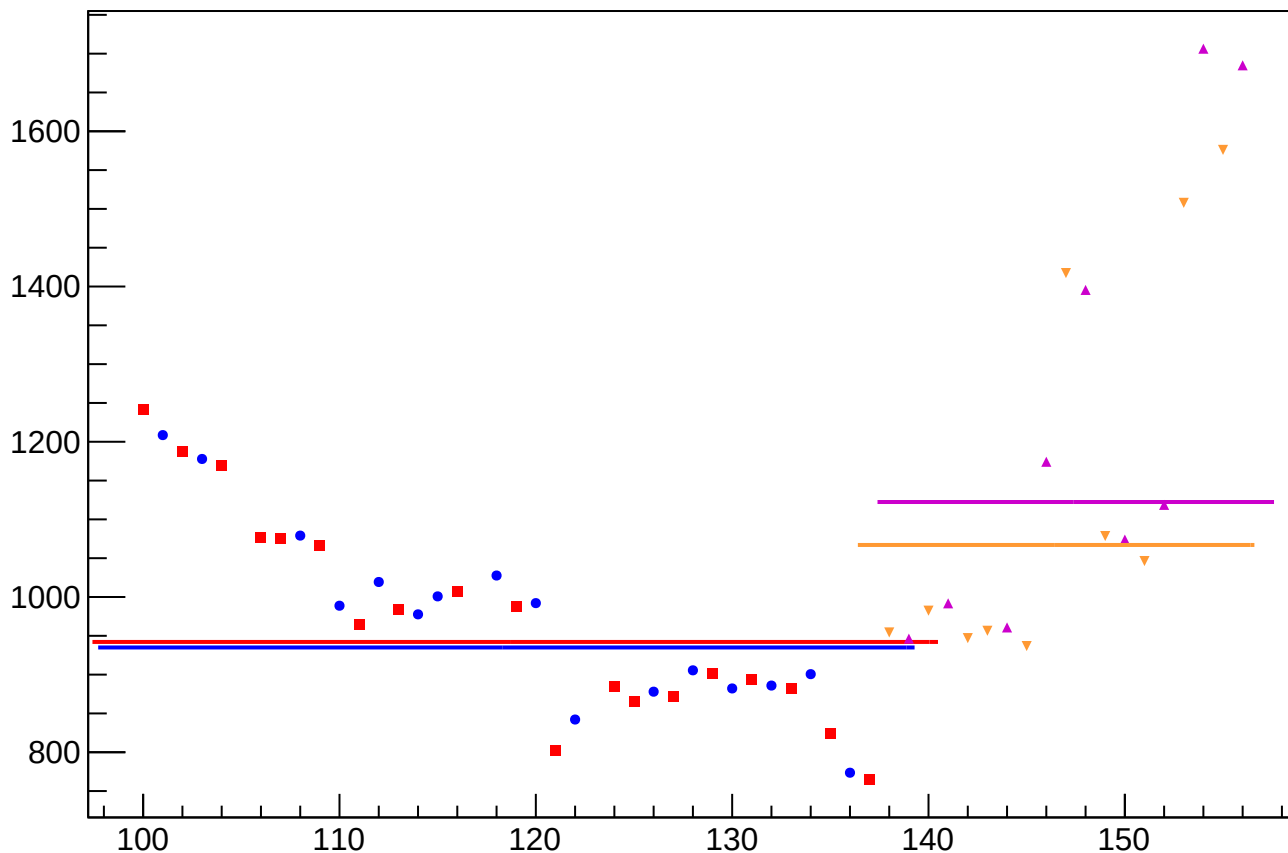
Right: -2.790 ± 0.246 χ^2/NDF : 509.0/34

In: -0.679 ± 0.267 χ^2/NDF : 325.2/24

Out: -1.602 ± 0.259 χ^2/NDF : 311.0/28

All: -1.155 ± 0.186 χ^2/NDF : 642.4/53

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Left: 1093.163 ± 0.200 $\chi^2/\text{NDF}: 1109534.6/18$

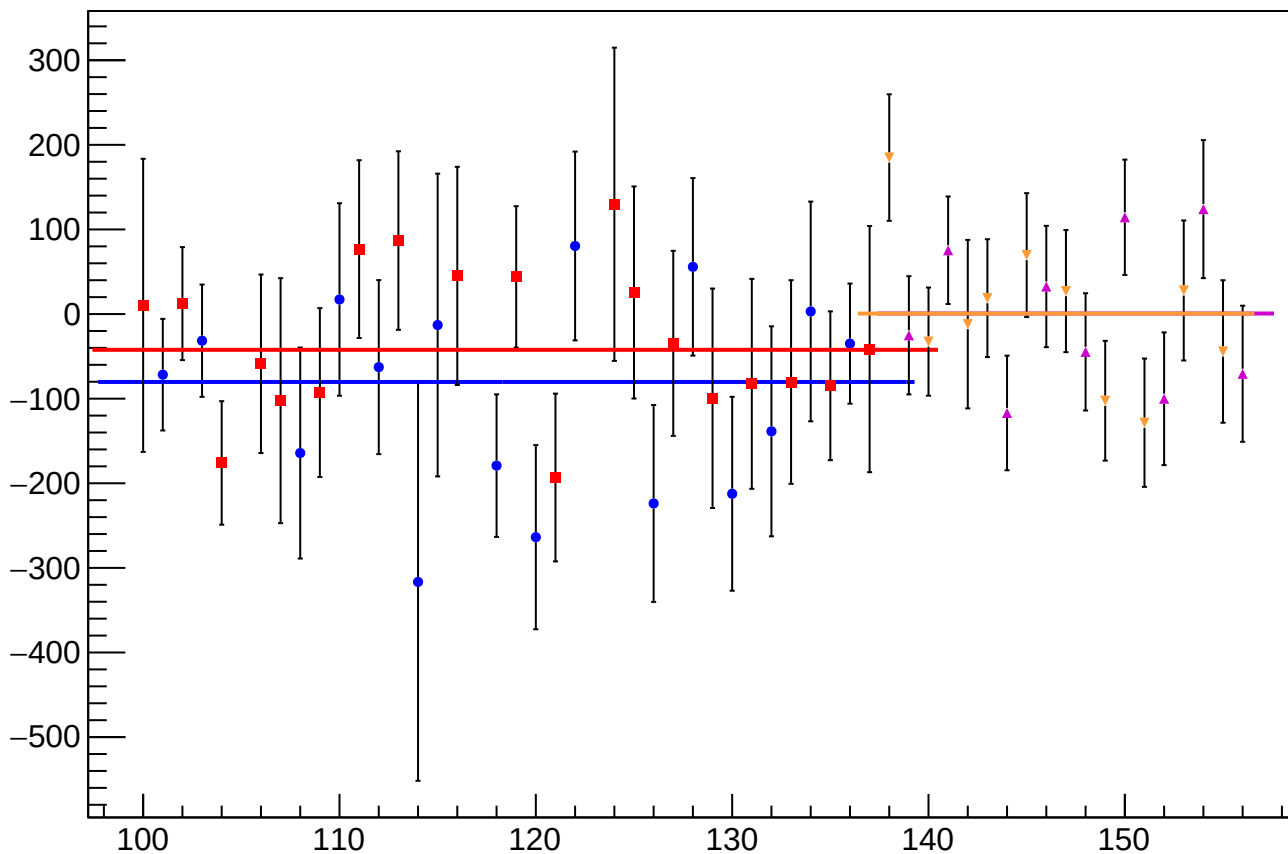
Right: 938.577 ± 0.174 $\chi^2/\text{NDF}: 487235.0/34$

In: 1013.701 ± 0.189 $\chi^2/\text{NDF}: 1084588.0/24$

Out: 997.298 ± 0.183 $\chi^2/\text{NDF}: 847930.9/28$

All: 1005.247 ± 0.131 $\chi^2/\text{NDF}: 1936412.7/53$

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -80.250 $\pm$ 24.909 χ^2/NDF : 14.8/15

Left Out: 0.579 $\pm$ 23.771 χ^2/NDF :12.9/9

Right Out: -42.263 $\pm$ 24.144 χ^2/NDF : 13.0/18

Left In: 0.656 $\pm$ 23.865 χ^2/NDF :12.7/8

Left: 0.617 $\pm$ 16.842 χ^2/NDF : 25.5/18

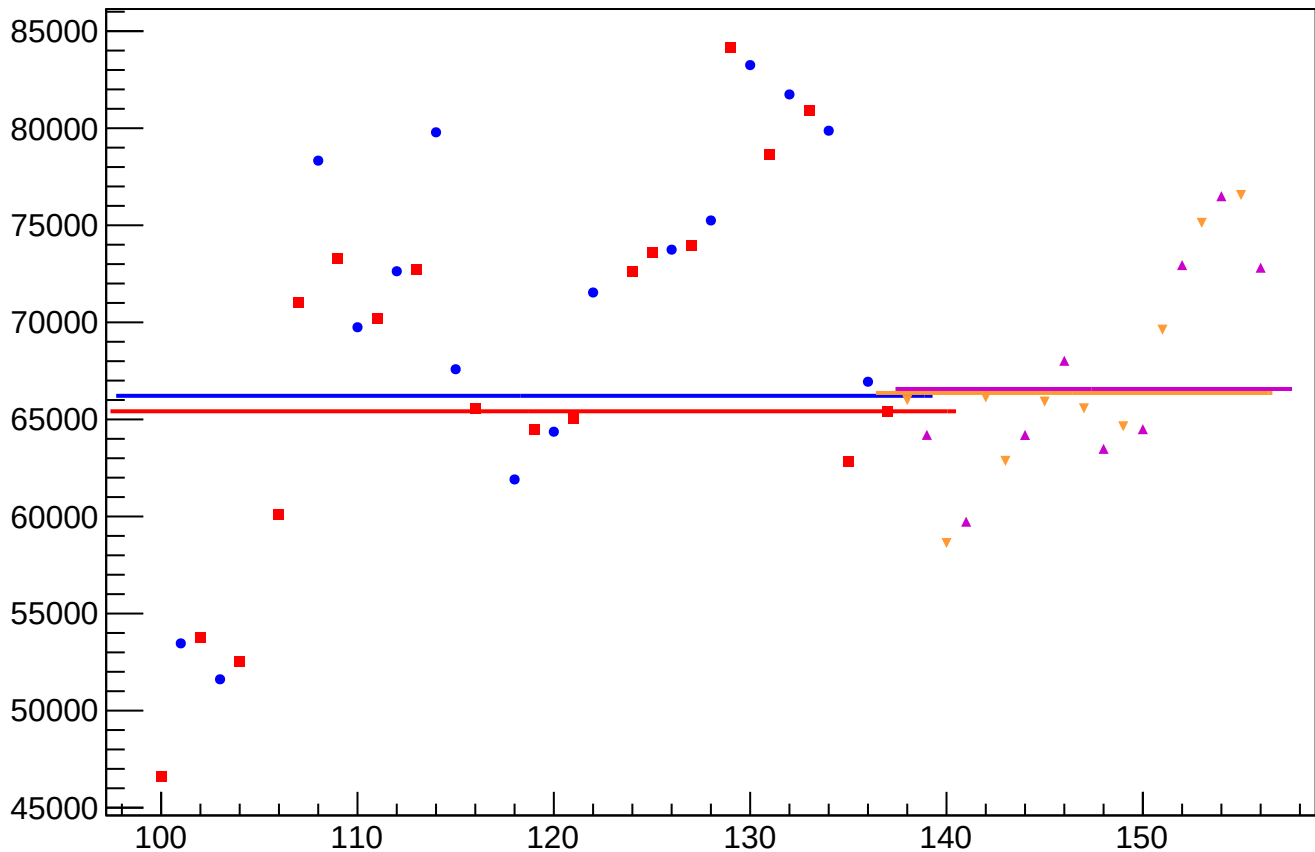
Right: -60.665 $\pm$ 17.337 χ^2/NDF : 29.0/34

In: -38.067 $\pm$ 17.232 χ^2/NDF :33.0/24

Out: -20.508 $\pm$ 16.939 χ^2/NDF :27.4/28

All: -29.137 $\pm$ 12.080 χ^2/NDF : 60.9/53

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66216.115 $\pm$ 17.613

χ^2/NDF : 338377.6/15

Left: 66465.070 $\pm$ 11.909

χ^2/NDF : 180806.1/18

Left Out: 66363.545 $\pm$ 16.809

χ^2/NDF : 91306.7/9

Right: 65804.895 $\pm$ 12.259

χ^2/NDF : 643990.8/34

Right Out: 65418.529 $\pm$ 17.073

χ^2/NDF : 304555.9/18

In: 66399.272 $\pm$ 12.185

χ^2/NDF : 428011.2/24

Out: 65898.405 $\pm$ 11.978

χ^2/NDF : 397418.5/28

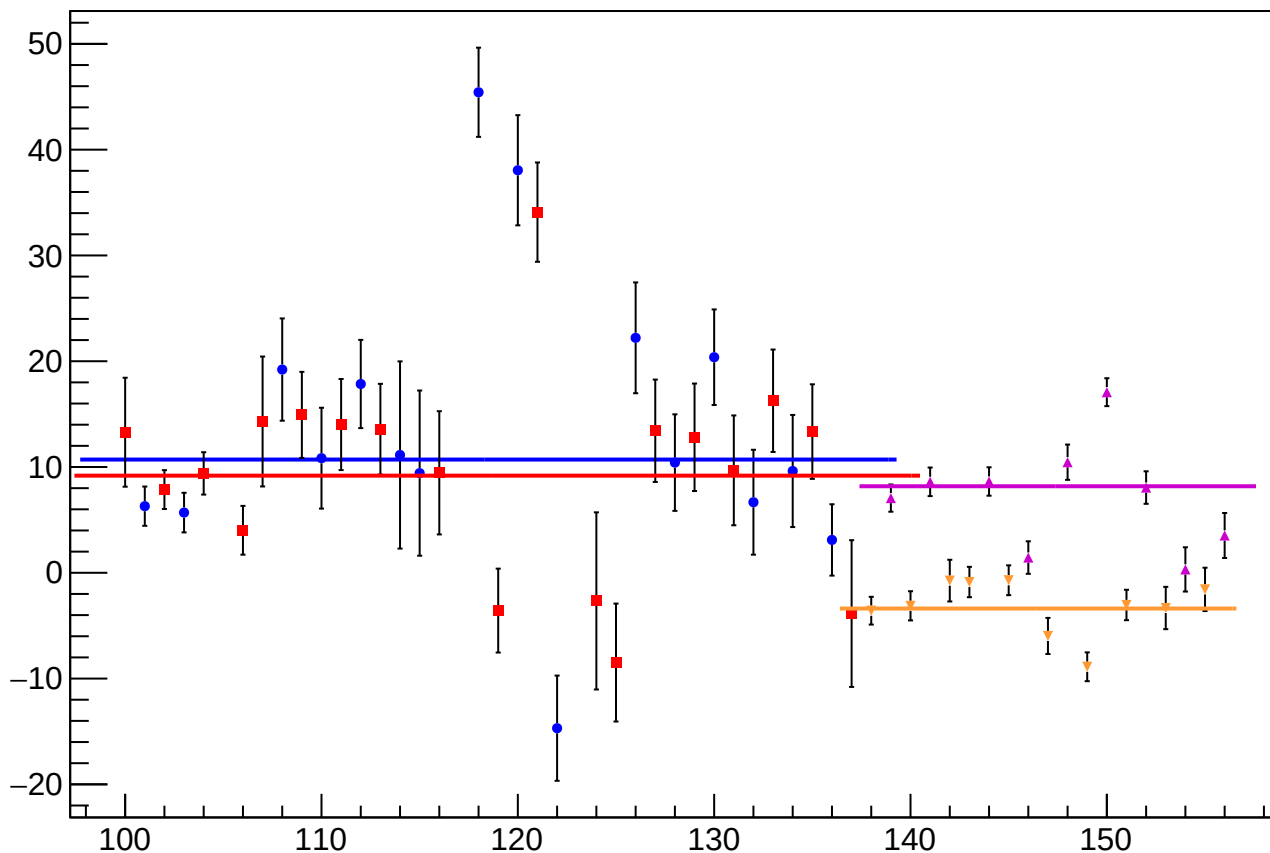
Left In: 66567.403 $\pm$ 16.875

χ^2/NDF : 89426.2/8

All: 66144.538 $\pm$ 8.542

χ^2/NDF : 826288.9/53

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.705 ± 0.921 $\chi^2/\text{NDF}: 155.6/15$

Left Out: -3.379 ± 0.488 $\chi^2/\text{NDF}: 28.0/9$

Right Out: 9.182 ± 0.850 $\chi^2/\text{NDF}: 69.6/18$

Left In: 8.181 ± 0.504 $\chi^2/\text{NDF}: 86.4/8$

Left: 2.210 ± 0.350 $\chi^2/\text{NDF}: 386.2/18$

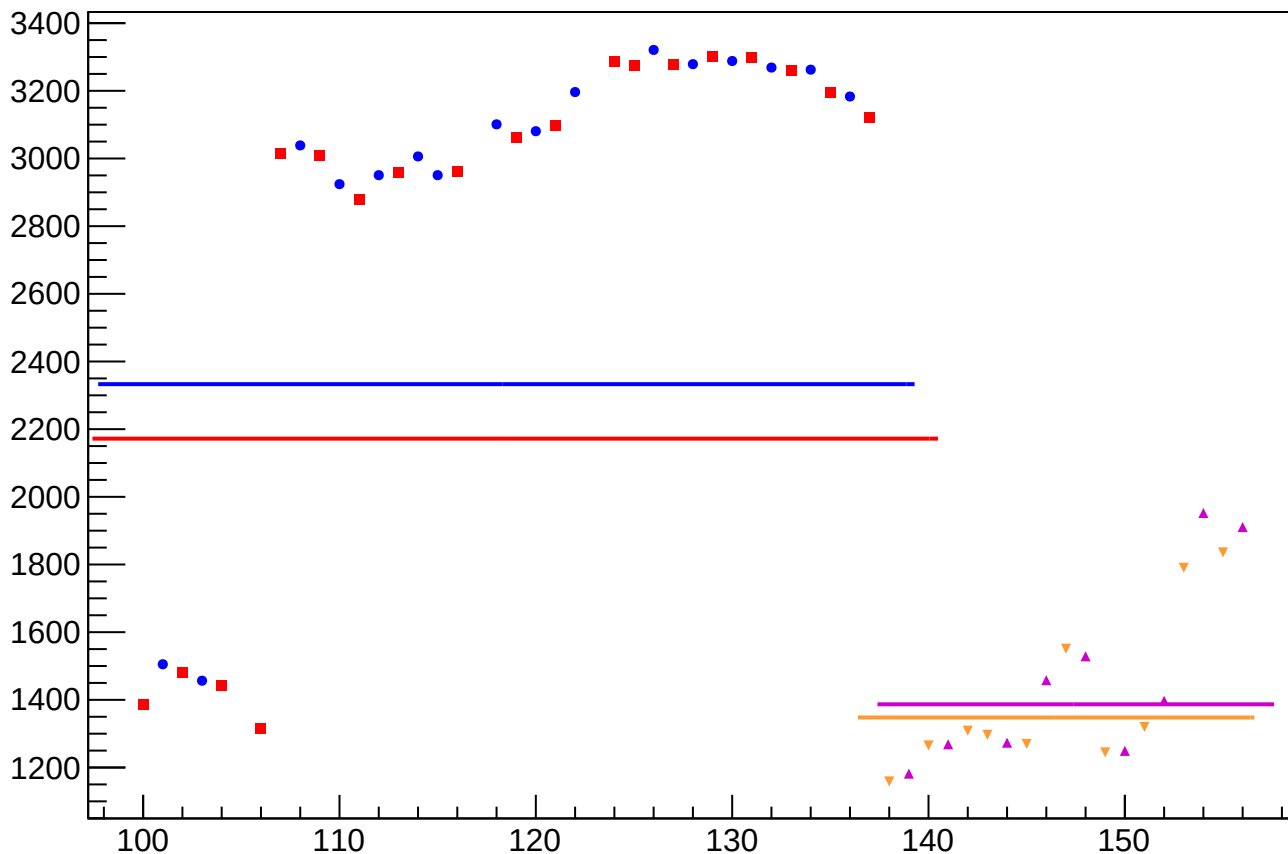
Right: 9.883 ± 0.625 $\chi^2/\text{NDF}: 226.6/34$

In: 8.763 ± 0.442 $\chi^2/\text{NDF}: 247.8/24$

Out: -0.270 ± 0.423 $\chi^2/\text{NDF}: 261.8/28$

All: 4.047 ± 0.306 $\chi^2/\text{NDF}: 727.6/53$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2333.021 $\pm$ 0.651 χ^2/NDF : 1651407.8/15

Left Out: 1347.847 $\pm$ 0.345 χ^2/NDF :310210.3/9

Right Out: 2172.041 $\pm$ 0.601 χ^2/NDF : 1984197.6/18

Left In: 1386.798 $\pm$ 0.356 χ^2/NDF :388189.5/8

Left: 1366.677 $\pm$ 0.248 χ^2/NDF : 704572.0/18

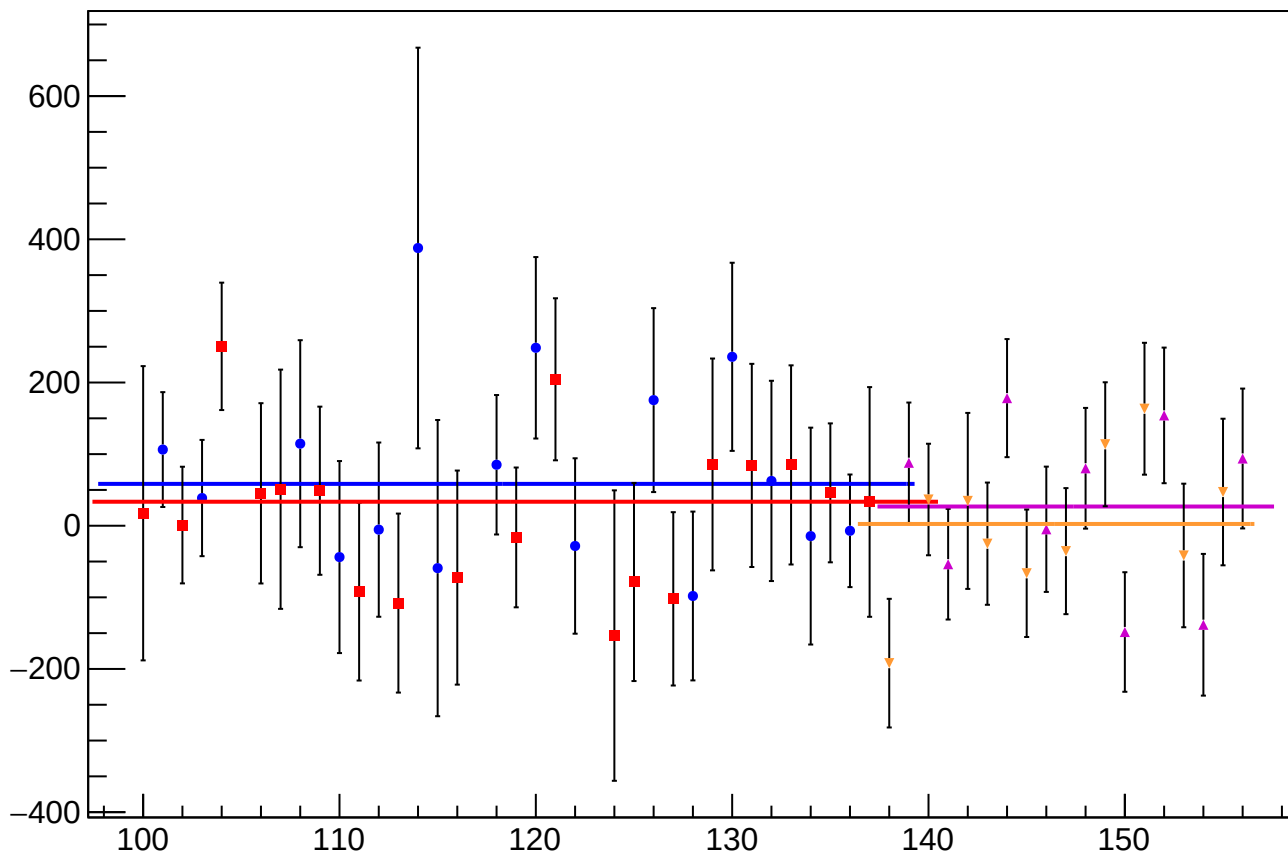
Right: 2246.139 $\pm$ 0.442 χ^2/NDF : 3668614.7/34

In: 1604.977 $\pm$ 0.313 χ^2/NDF :3665470.1/24

Out: 1551.805 $\pm$ 0.299 χ^2/NDF :3709034.1/28

All: 1577.215 $\pm$ 0.216 χ^2/NDF : 7389613.3/53

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 58.446 $\pm$ 28.918 χ^2/NDF : 11.3/15

Left Out: 2.476 $\pm$ 28.940 χ^2/NDF : 10.9/9

Right Out: 33.520 $\pm$ 28.106 χ^2/NDF : 14.7/18

Left In: 26.831 $\pm$ 28.996 χ^2/NDF : 15.0/8

Left: 14.630 $\pm$ 20.483 χ^2/NDF : 26.3/18

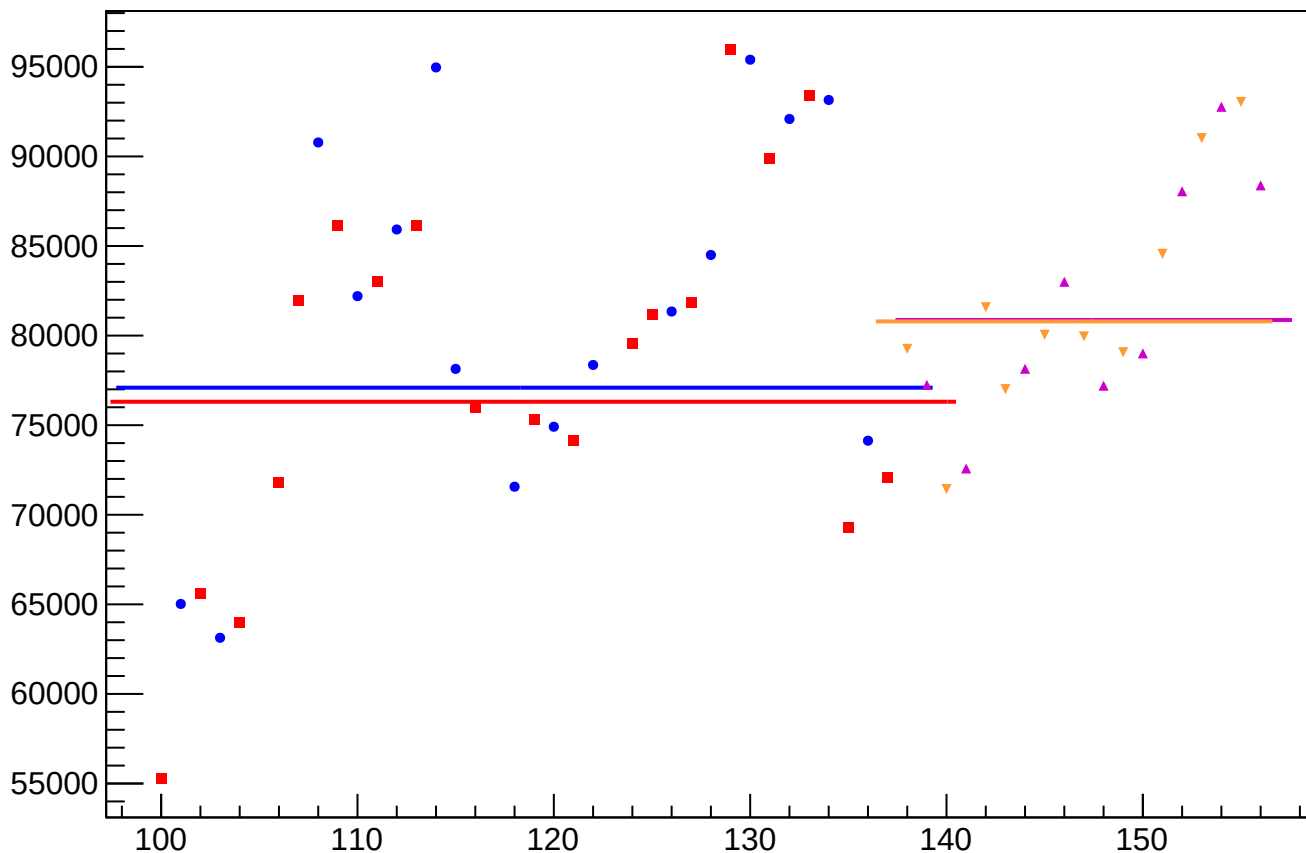
Right: 45.628 $\pm$ 20.155 χ^2/NDF : 26.4/34

In: 42.681 $\pm$ 20.475 χ^2/NDF : 26.9/24

Out: 18.452 $\pm$ 20.162 χ^2/NDF : 26.2/28

All: 30.380 $\pm$ 14.366 χ^2/NDF : 53.8/53

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 77093.125 $\pm$ 20.448

χ^2/NDF : 248542.7/15

Left: 80832.096 $\pm$ 14.484

χ^2/NDF : 174529.0/18

Left Out: 80792.175 $\pm$ 20.463

χ^2/NDF : 87376.2/9

Right: 76689.749 $\pm$ 14.251

χ^2/NDF : 483732.7/34

Right Out: 76308.708 $\pm$ 19.874

χ^2/NDF : 234433.2/18

In: 78977.551 $\pm$ 14.478

χ^2/NDF : 352719.9/24

Out: 78484.896 $\pm$ 14.257

χ^2/NDF : 346512.7/28

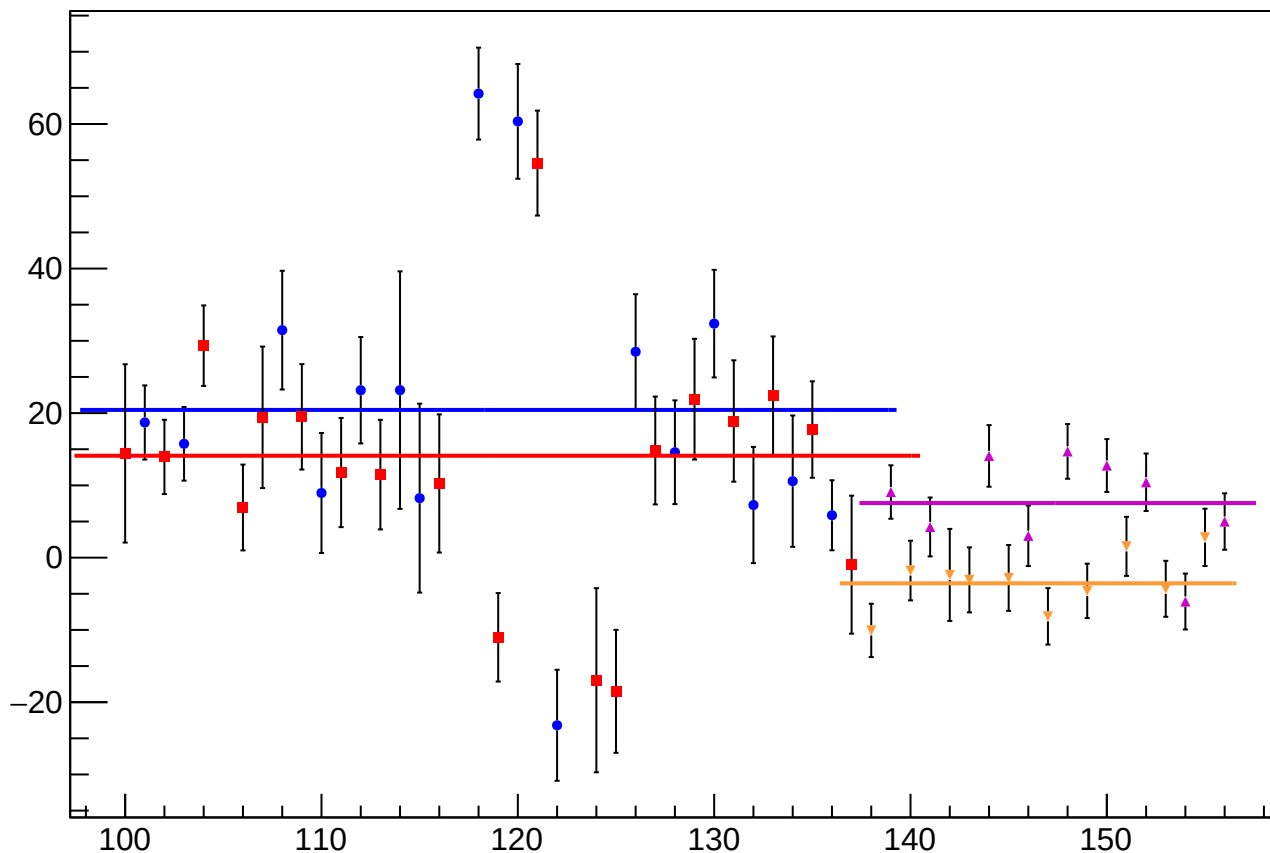
Left In: 80872.172 $\pm$ 20.503

χ^2/NDF : 87145.2/8

All: 78727.426 $\pm$ 10.158

χ^2/NDF : 699820.5/5

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.441 ± 1.782 $\chi^2/\text{NDF}: 127.8/15$

Left Out: -3.549 ± 1.313 $\chi^2/\text{NDF}: 9.0/9$

Right Out: 14.102 ± 1.714 $\chi^2/\text{NDF}: 83.8/18$

Left In: 7.558 ± 1.307 $\chi^2/\text{NDF}: 23.3/8$

Left: 2.030 ± 0.926 $\chi^2/\text{NDF}: 68.3/18$

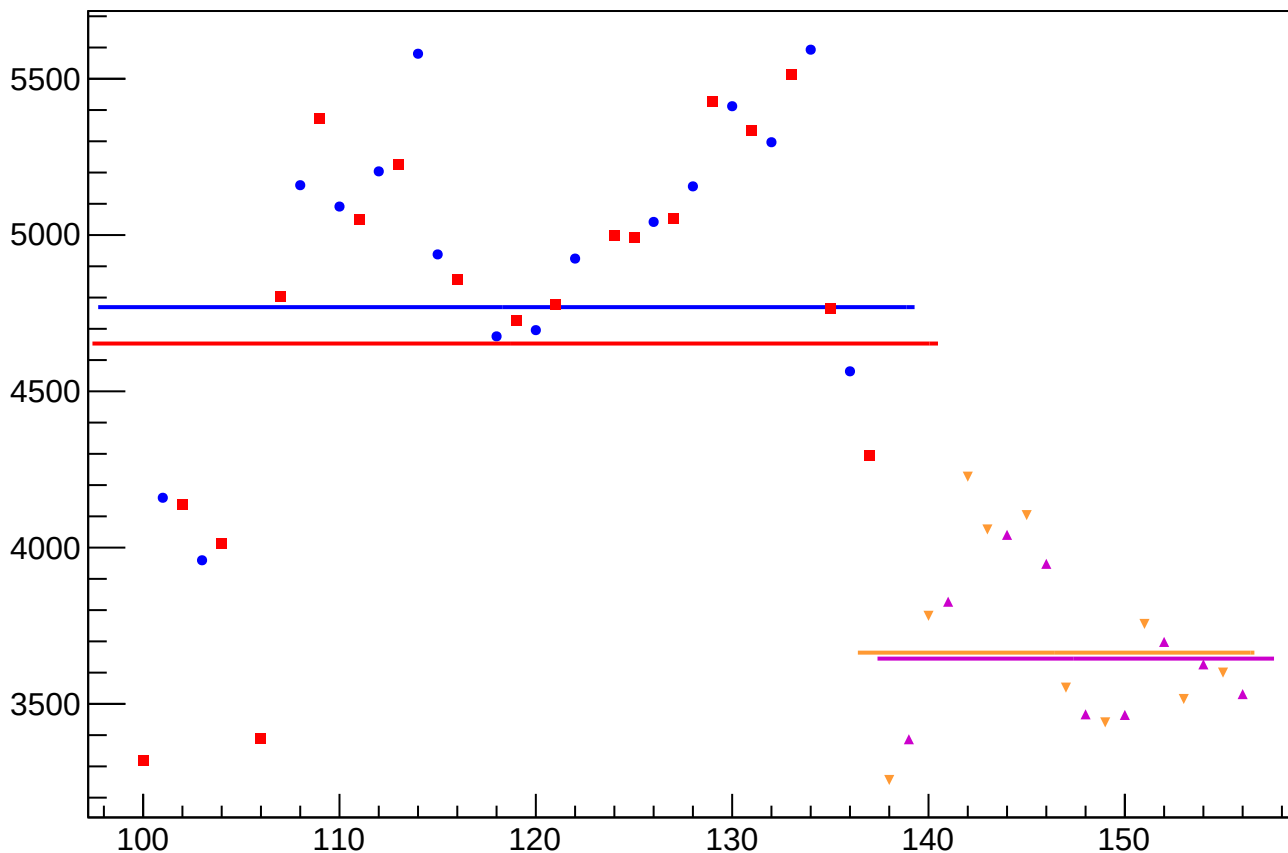
Right: 17.148 ± 1.235 $\chi^2/\text{NDF}: 218.2/34$

In: 12.062 ± 1.054 $\chi^2/\text{NDF}: 185.1/24$

Out: 2.978 ± 1.042 $\chi^2/\text{NDF}: 159.6/28$

All: 7.469 ± 0.741 $\chi^2/\text{NDF}: 382.3/53$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4769.375 $\pm$ 1.260 χ^2 /NDF: 151678.3/15

Left Out: 3663.959 $\pm$ 0.928 χ^2 /NDF:88731.3/9

Right Out: 4652.924 $\pm$ 1.212 χ^2 /NDF: 265116.1/18

Left In: 3644.849 $\pm$ 0.924 χ^2 /NDF:52867.2/8

Left: 3654.360 $\pm$ 0.655 χ^2 /NDF: 141811.4/18

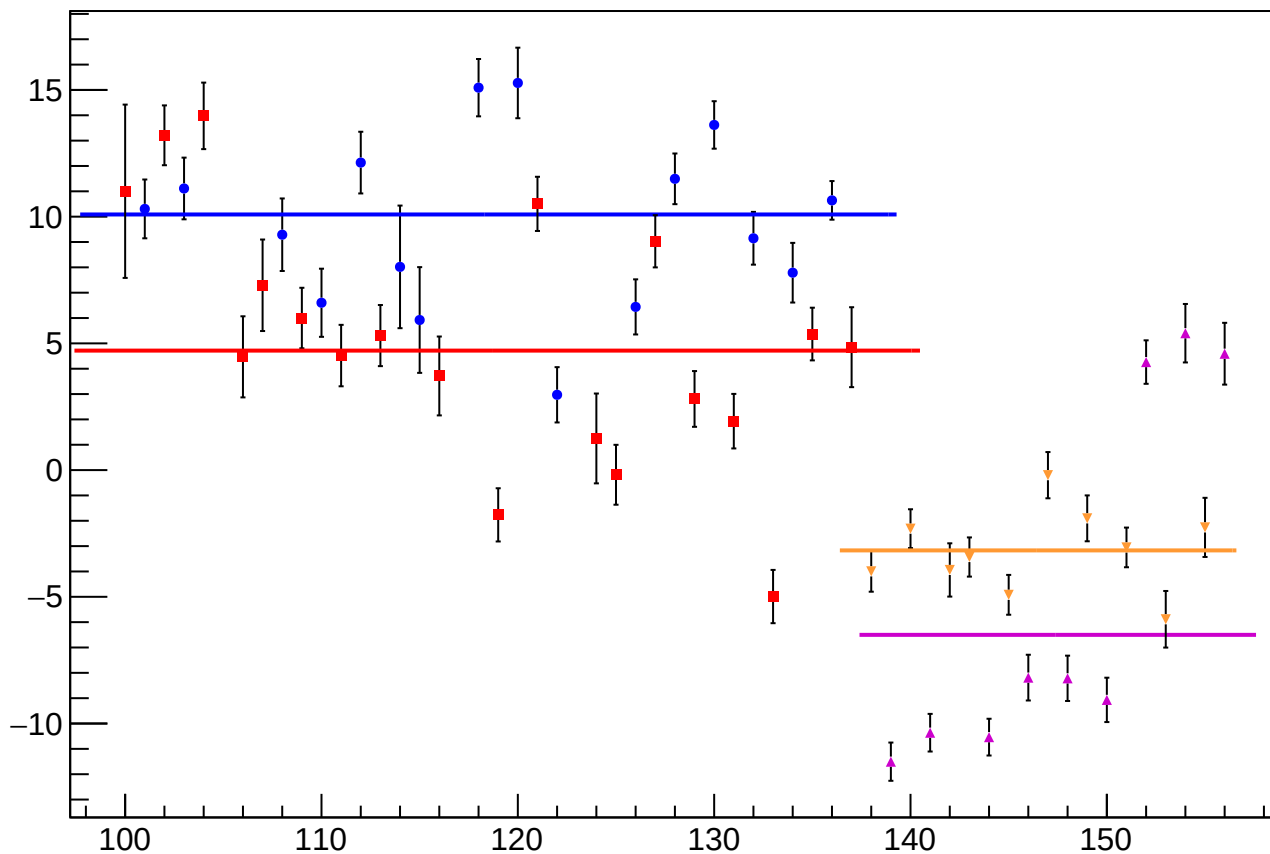
Right: 4708.872 $\pm$ 0.873 χ^2 /NDF: 421232.0/34

In: 4038.010 $\pm$ 0.745 χ^2 /NDF:722554.2/24

Out: 4029.633 $\pm$ 0.737 χ^2 /NDF:773697.7/28

All: 4033.775 $\pm$ 0.524 χ^2 /NDF: 1496315.8/53

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 10.086 $\pm$ 0.288 χ^2 /NDF: 123.9/15

Left Out: -3.169 $\pm$ 0.277 χ^2 /NDF: 27.0/9

Right Out: 4.715 $\pm$ 0.286 χ^2 /NDF: 310.2/18

Left In: -6.501 $\pm$ 0.288 χ^2 /NDF: 464.4/8

Left: -4.769 $\pm$ 0.200 χ^2 /NDF: 560.9/18

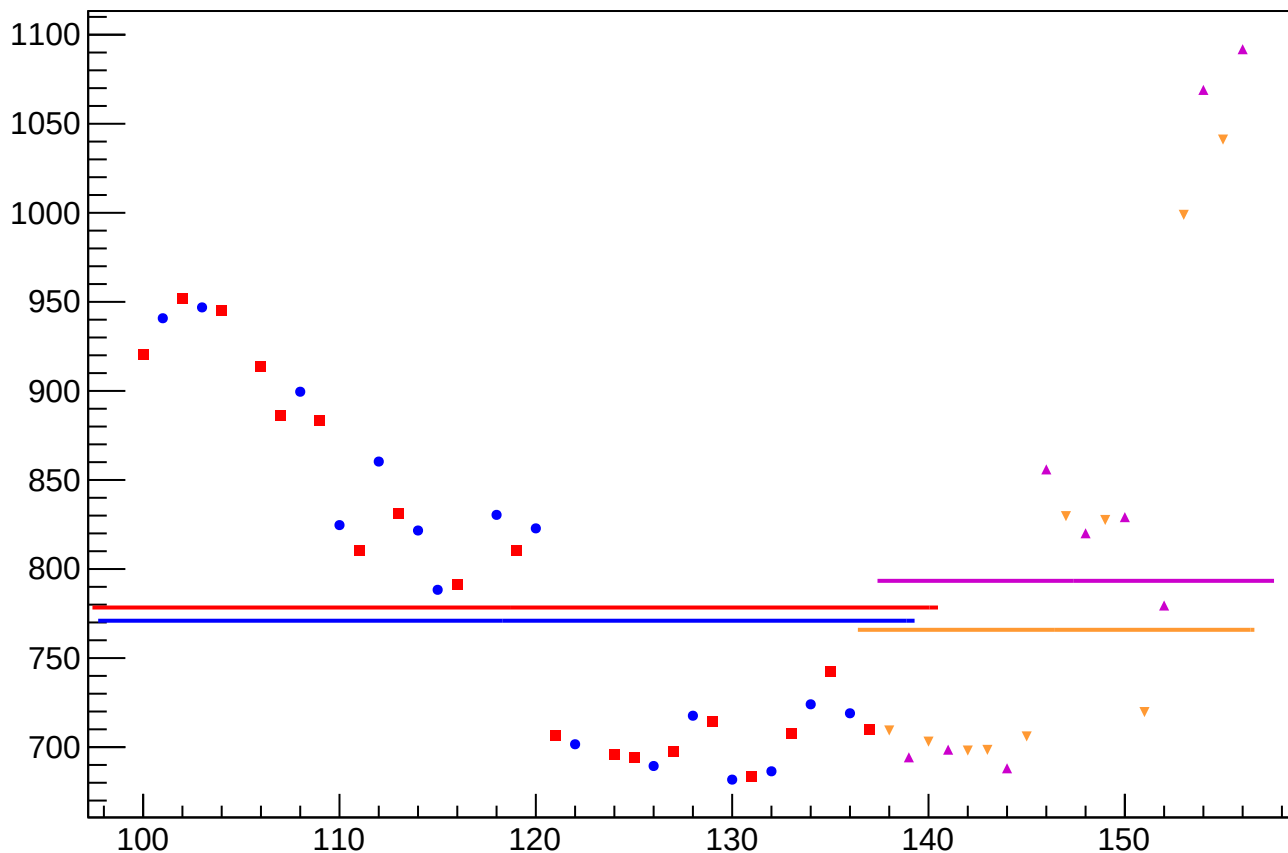
Right: 7.376 $\pm$ 0.203 χ^2 /NDF: 609.2/34

In: 1.788 $\pm$ 0.204 χ^2 /NDF: 2243.5/24

Out: 0.649 $\pm$ 0.199 χ^2 /NDF: 729.8/28

All: 1.205 $\pm$ 0.142 χ^2 /NDF: 2989.3/53

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 770.973+/-0.204 χ^2/NDF : 192911.9/15

Left Out: 765.876+/-0.196 χ^2/NDF : 282832.9/9

Right Out: 778.394+/-0.202 χ^2/NDF : 196544.2/18

Left In: 793.370+/-0.204 χ^2/NDF : 358515.6/8

Left: 779.074+/-0.141 χ^2/NDF : 650812.1/18

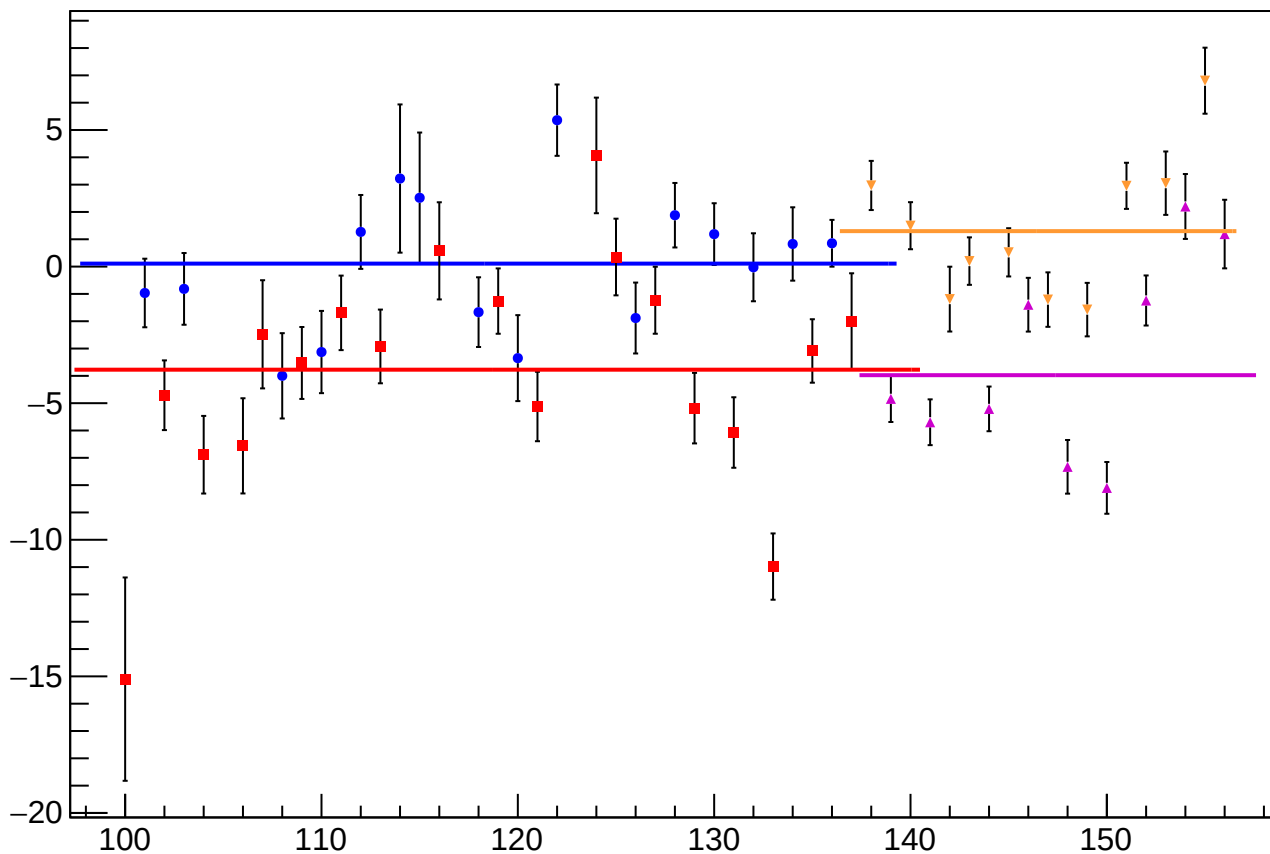
Right: 774.717+/-0.144 χ^2/NDF : 390124.3/34

In: 782.178+/-0.144 χ^2/NDF : 557462.8/24

Out: 771.938+/-0.141 χ^2/NDF : 481356.4/28

All: 776.931+/-0.101 χ^2/NDF : 1041404.6/53

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.109 $\pm$ 0.330 χ^2/NDF : 45.4/15

Left Out: 1.298 $\pm$ 0.305 χ^2/NDF : 52.1/9

Right Out: -3.774 $\pm$ 0.326 χ^2/NDF : 99.6/18

Left In: -3.975 $\pm$ 0.316 χ^2/NDF : 97.9/8

Left: -1.243 $\pm$ 0.219 χ^2/NDF : 294.5/18

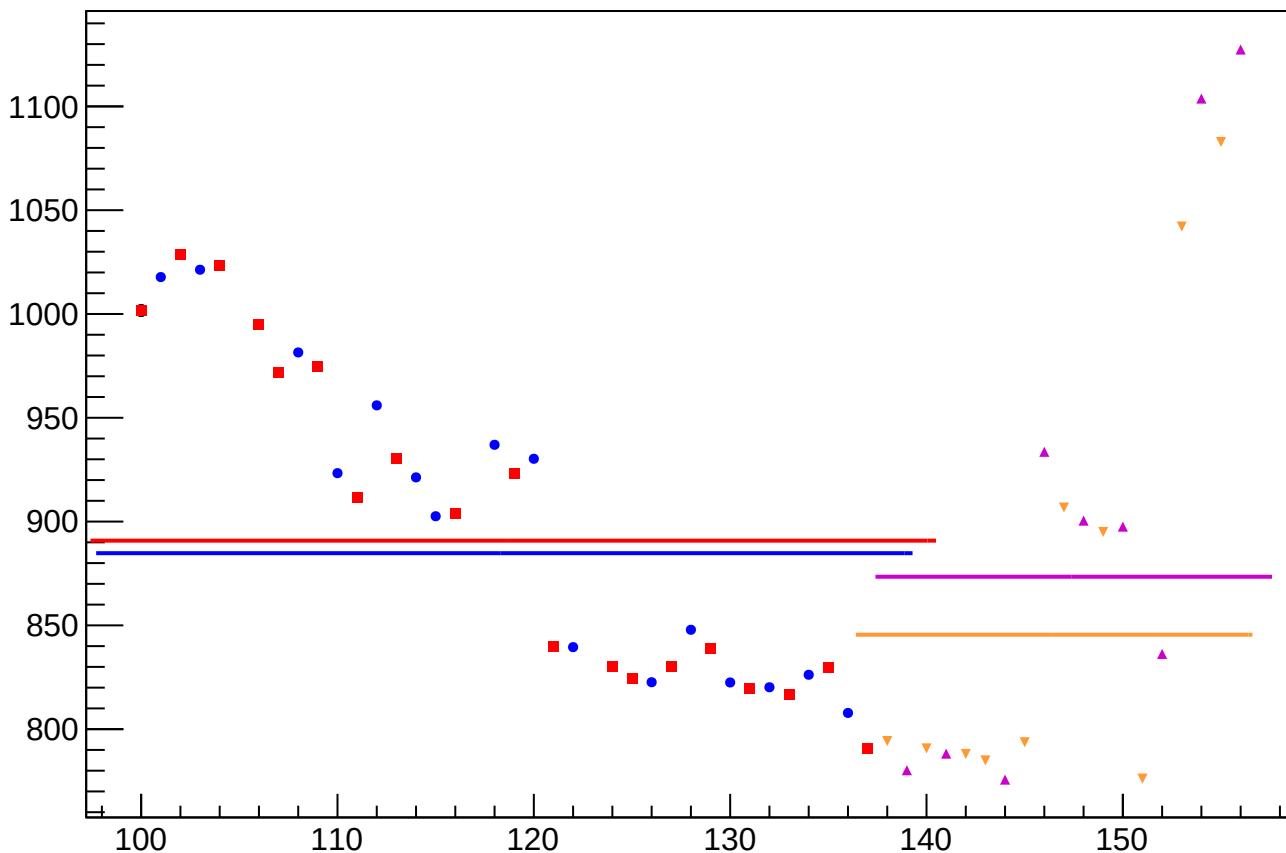
Right: -1.855 $\pm$ 0.232 χ^2/NDF : 215.0/34

In: -2.022 $\pm$ 0.228 χ^2/NDF : 223.3/24

Out: -1.065 $\pm$ 0.223 χ^2/NDF : 280.9/28

All: -1.532 $\pm$ 0.159 χ^2/NDF : 513.1/53

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 884.773 $\pm$ 0.233 χ^2/NDF : 104494.1/15

Left Out: 845.495 $\pm$ 0.215 χ^2/NDF :196541.4/9

Right Out: 890.815 $\pm$ 0.231 χ^2/NDF : 107763.6/18

Left In: 873.436 $\pm$ 0.223 χ^2/NDF :244087.8/8

Left: 858.961 $\pm$ 0.155 χ^2/NDF : 448741.2/18

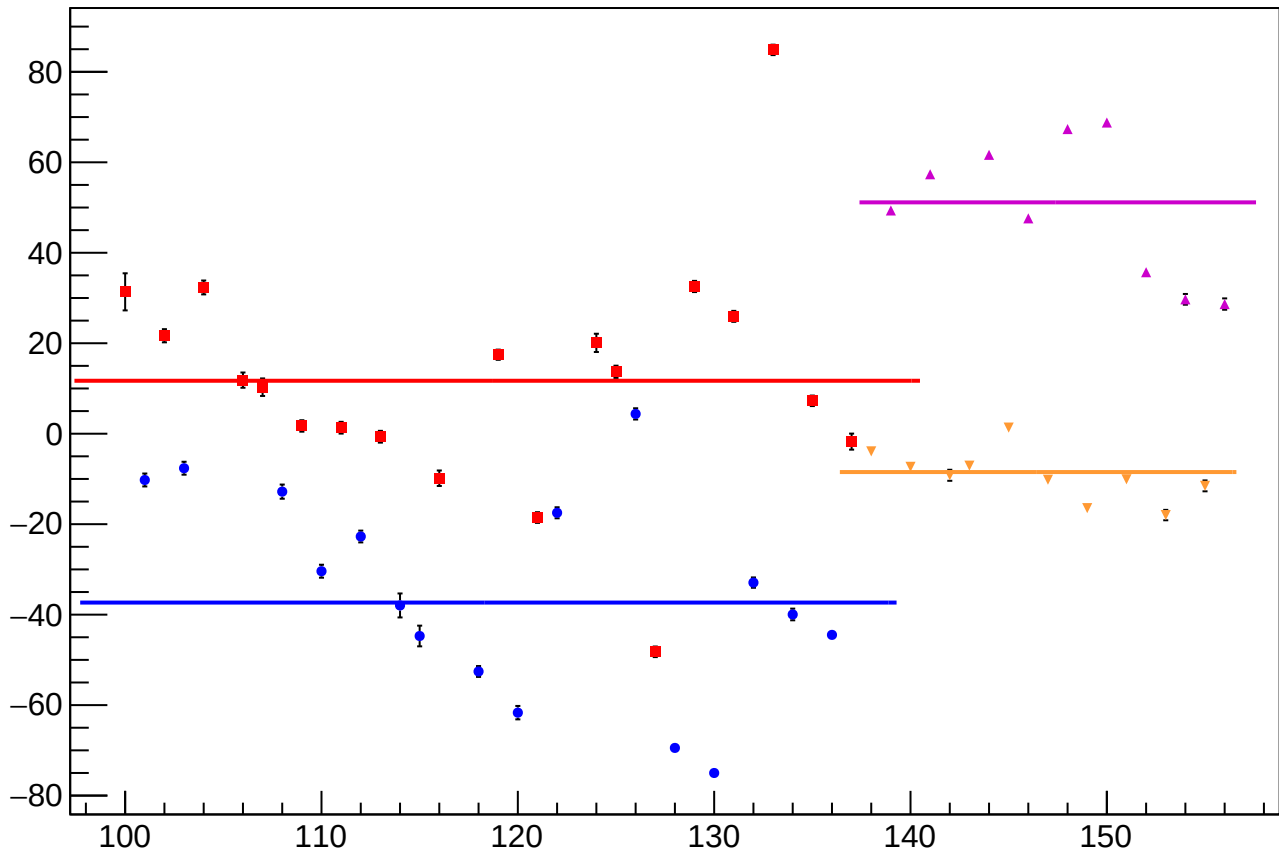
Right: 887.830 $\pm$ 0.164 χ^2/NDF : 212597.1/34

In: 878.857 $\pm$ 0.161 χ^2/NDF :349814.6/24

Out: 866.613 $\pm$ 0.157 χ^2/NDF :324939.0/28

All: 872.584 $\pm$ 0.113 χ^2/NDF : 677705.1/53

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.330 ± 0.322 $\chi^2/\text{NDF}: 5184.7/15$

Left Out: -8.476 ± 0.310 $\chi^2/\text{NDF}: 286.5/9$

Right Out: 11.706 ± 0.318 $\chi^2/\text{NDF}: 8463.6/18$

Left In: 51.143 ± 0.324 $\chi^2/\text{NDF}: 1696.5/8$

Left: 20.061 ± 0.224 $\chi^2/\text{NDF}: 19682.0/18$

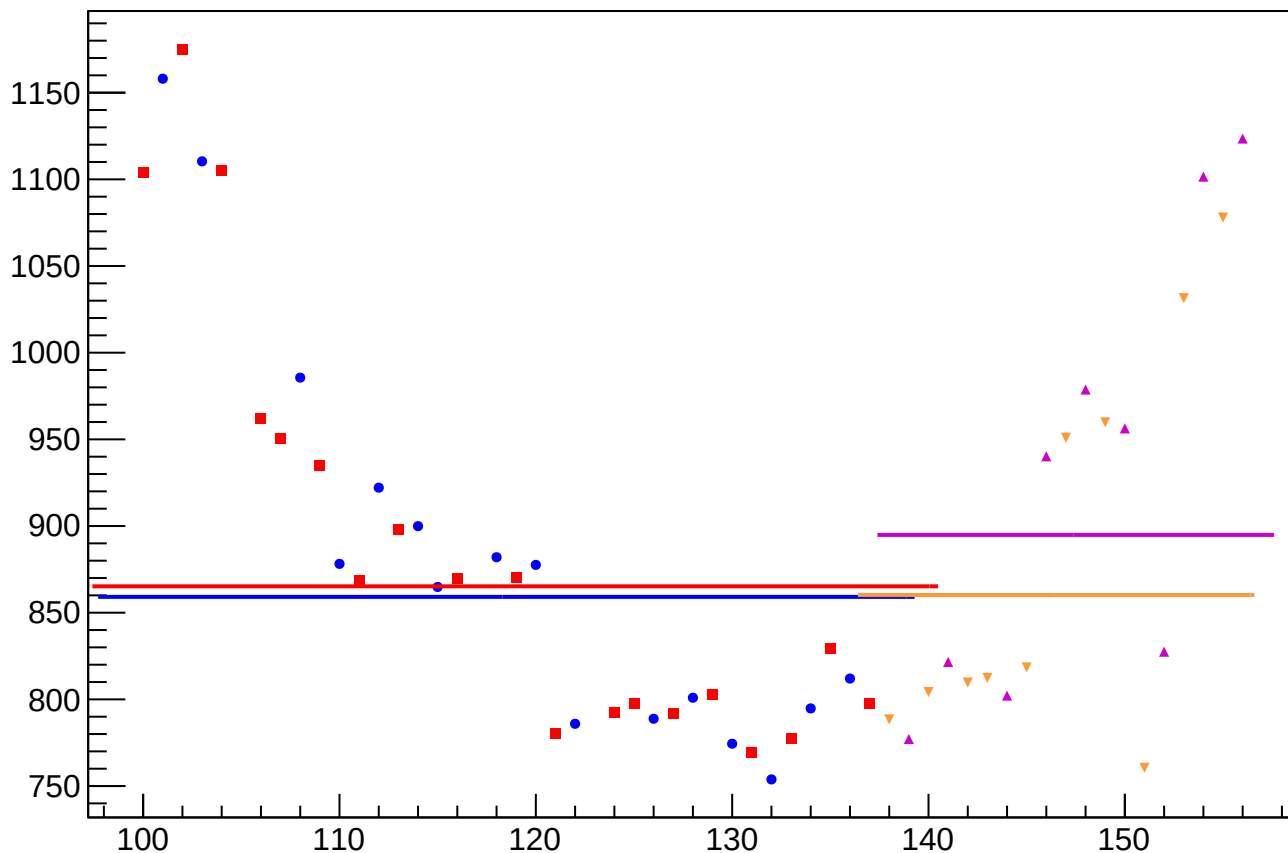
Right: -12.519 ± 0.226 $\chi^2/\text{NDF}: 25401.8/34$

In: 6.654 ± 0.228 $\chi^2/\text{NDF}: 44474.9/24$

Out: 1.362 ± 0.222 $\chi^2/\text{NDF}: 10815.7/28$

All: 3.936 ± 0.159 $\chi^2/\text{NDF}: 55567.0/53$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 859.126 $\pm$ 0.228 χ^2 /NDF: 228710.0/15

Left Out: 860.217 $\pm$ 0.219 χ^2 /NDF:205981.3/9

Right Out: 865.213 $\pm$ 0.225 χ^2 /NDF: 223669.1/18

Left In: 894.870 $\pm$ 0.229 χ^2 /NDF:239237.5/8

Left: 876.804 $\pm$ 0.158 χ^2 /NDF: 457177.5/18

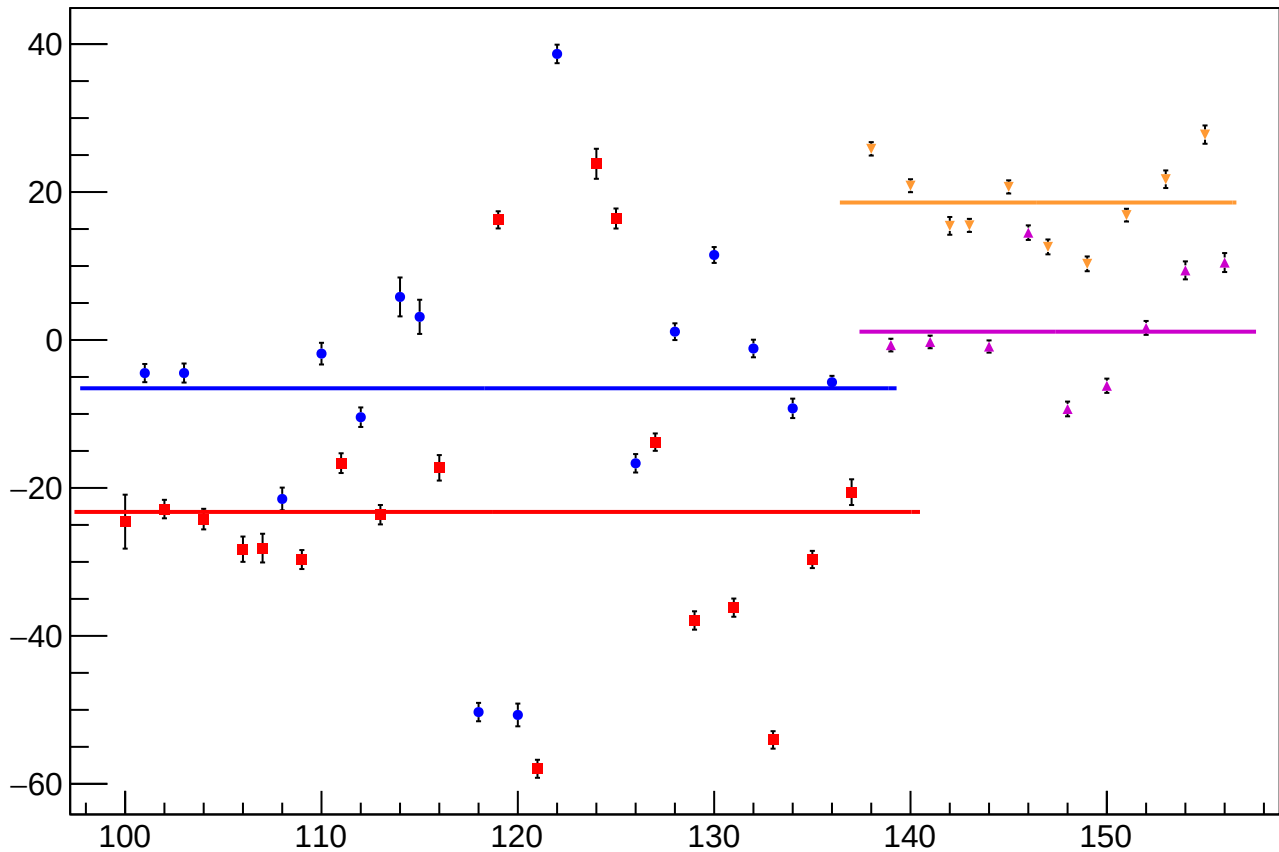
Right: 862.206 $\pm$ 0.160 χ^2 /NDF: 452741.3/34

In: 876.896 $\pm$ 0.161 χ^2 /NDF:480219.6/24

Out: 862.652 $\pm$ 0.157 χ^2 /NDF:429903.6/28

All: 869.579 $\pm$ 0.112 χ^2 /NDF: 914127.9/53

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Left: 10.174 $\pm$ 0.223 χ^2/NDF : 2264.1/18

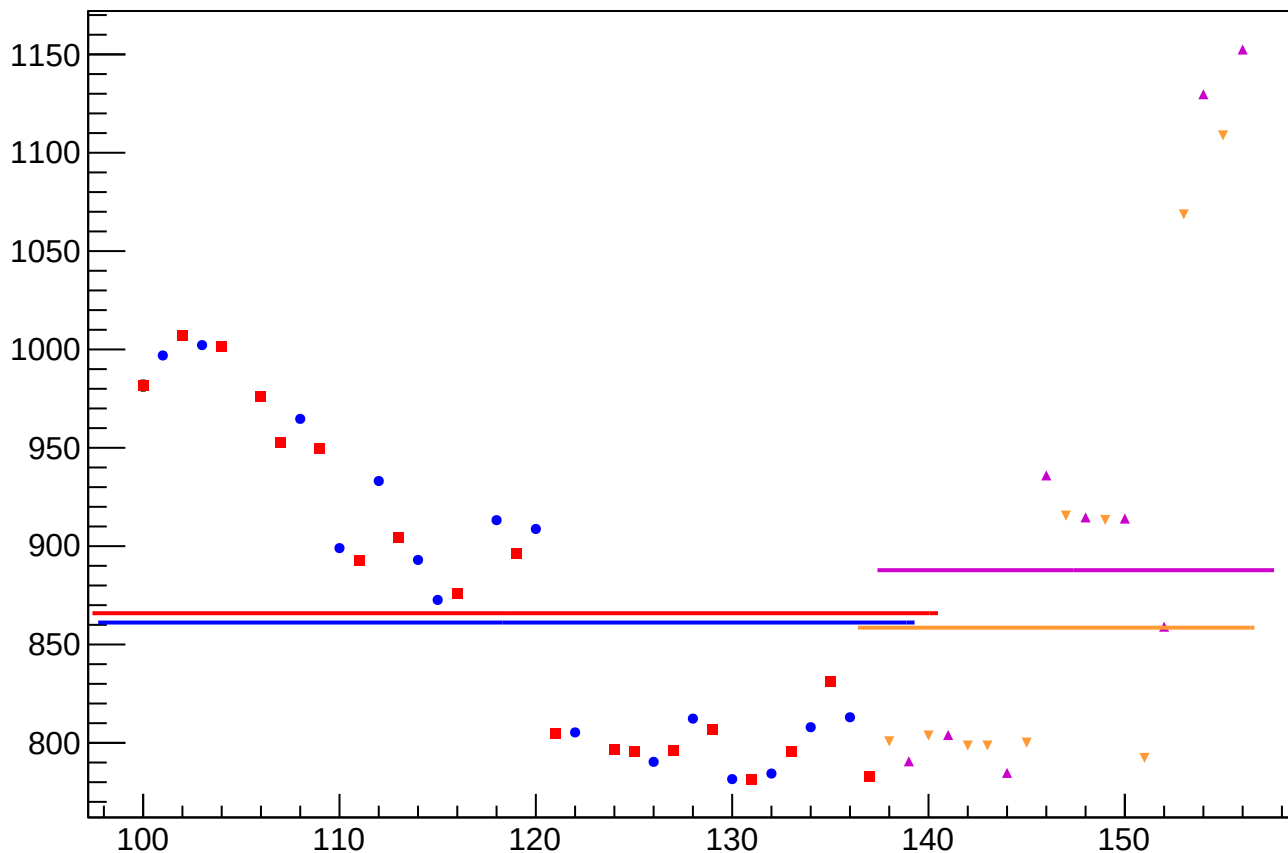
Right: -14.995 $\pm$ 0.226 χ^2/NDF : 9787.9/34

In: -2.701 $\pm$ 0.227 χ^2/NDF : 4694.0/24

Out: -1.818 $\pm$ 0.221 χ^2/NDF : 13652.6/28

All: -2.248 $\pm$ 0.159 χ^2/NDF : 18354.4/53

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 861.169 $\pm$ 0.227 χ^2 /NDF: 113529.7/15

Left Out: 858.562 $\pm$ 0.219 χ^2 /NDF:207164.5/9

Right Out: 865.907 $\pm$ 0.224 χ^2 /NDF: 118418.0/18

Left In: 887.777 $\pm$ 0.227 χ^2 /NDF:249806.3/8

Left: 872.631 $\pm$ 0.158 χ^2 /NDF: 465560.6/18

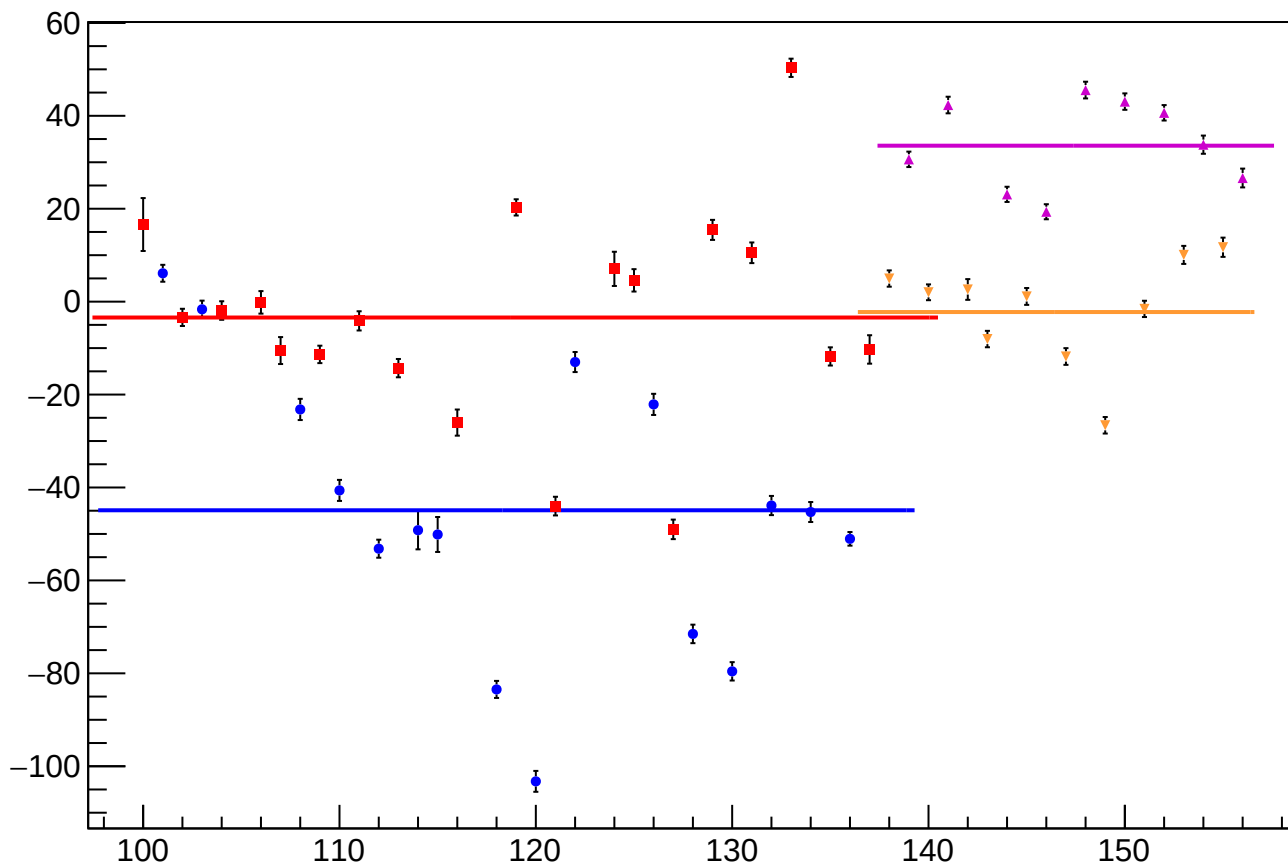
Right: 863.569 $\pm$ 0.160 χ^2 /NDF: 232168.2/34

In: 874.482 $\pm$ 0.161 χ^2 /NDF:370203.0/24

Out: 862.145 $\pm$ 0.157 χ^2 /NDF:326132.5/28

All: 868.158 $\pm$ 0.112 χ^2 /NDF: 699362.5/53

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -44.905 ± 0.520 $\chi^2/\text{NDF}: 3377.6/15$

Left Out: -2.235 ± 0.583 $\chi^2/\text{NDF}: 344.1/9$

Right Out: -3.416 ± 0.509 $\chi^2/\text{NDF}: 2102.1/18$

Left In: 33.568 ± 0.585 $\chi^2/\text{NDF}: 248.1/8$

Left: 15.603 ± 0.413 $\chi^2/\text{NDF}: 2473.9/18$

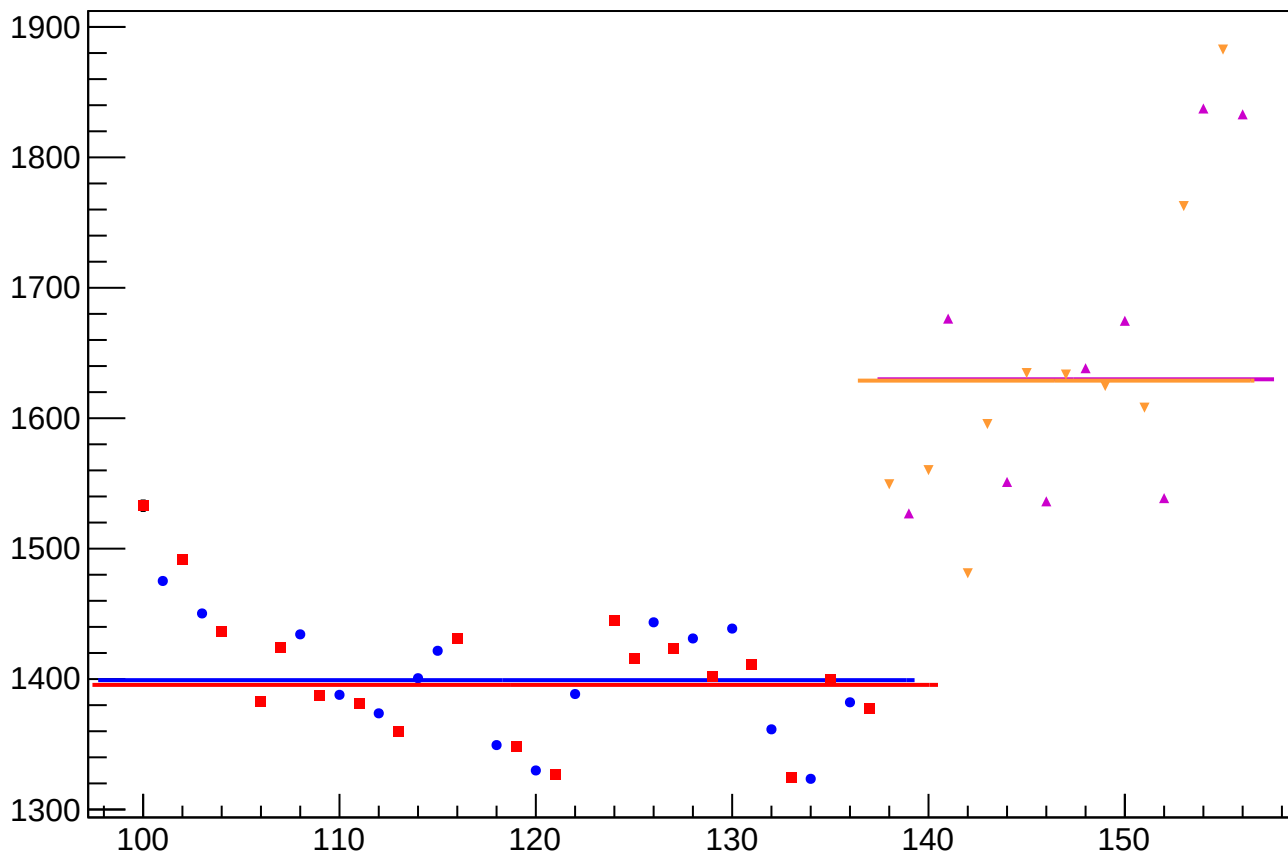
Right: -23.727 ± 0.364 $\chi^2/\text{NDF}: 8730.3/34$

In: -10.254 ± 0.389 $\chi^2/\text{NDF}: 13685.6/24$

Out: -2.905 ± 0.383 $\chi^2/\text{NDF}: 2448.6/28$

All: -6.531 ± 0.273 $\chi^2/\text{NDF}: 16315.5/53$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1399.172 $\pm$ 0.368 χ^2 /NDF: 14844.1/15

Left Out: 1628.836 $\pm$ 0.412 χ^2 /NDF: 56739.9/9

Right Out: 1395.546 $\pm$ 0.360 χ^2 /NDF: 16240.9/18

Left In: 1629.849 $\pm$ 0.413 χ^2 /NDF: 70277.2/8

Left: 1629.341 $\pm$ 0.292 χ^2 /NDF: 127020.1/18

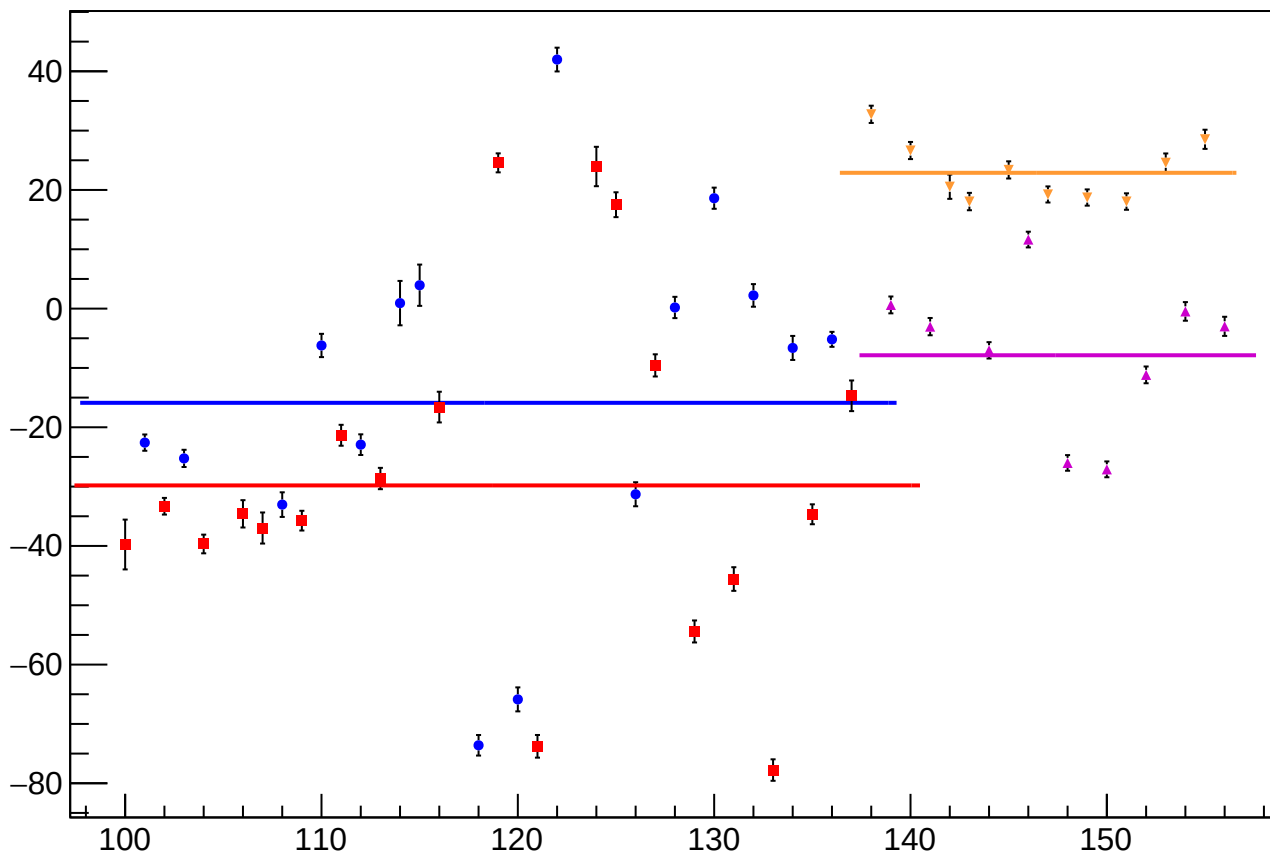
Right: 1397.321 $\pm$ 0.257 χ^2 /NDF: 31134.7/34

In: 1501.029 $\pm$ 0.275 χ^2 /NDF: 258978.1/24

Out: 1496.569 $\pm$ 0.271 χ^2 /NDF: 254802.8/28

All: 1498.770 $\pm$ 0.193 χ^2 /NDF: 513914.5/53

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.878 ± 0.455 χ^2/NDF : 3477.8/15

Left Out: 22.890 ± 0.470 χ^2/NDF : 107.2/9

Right Out: -29.801 ± 0.444 χ^2/NDF : 3681.2/18

Left In: -7.862 ± 0.472 χ^2/NDF : 697.4/8

Left: 7.569 ± 0.333 χ^2/NDF : 2935.3/18

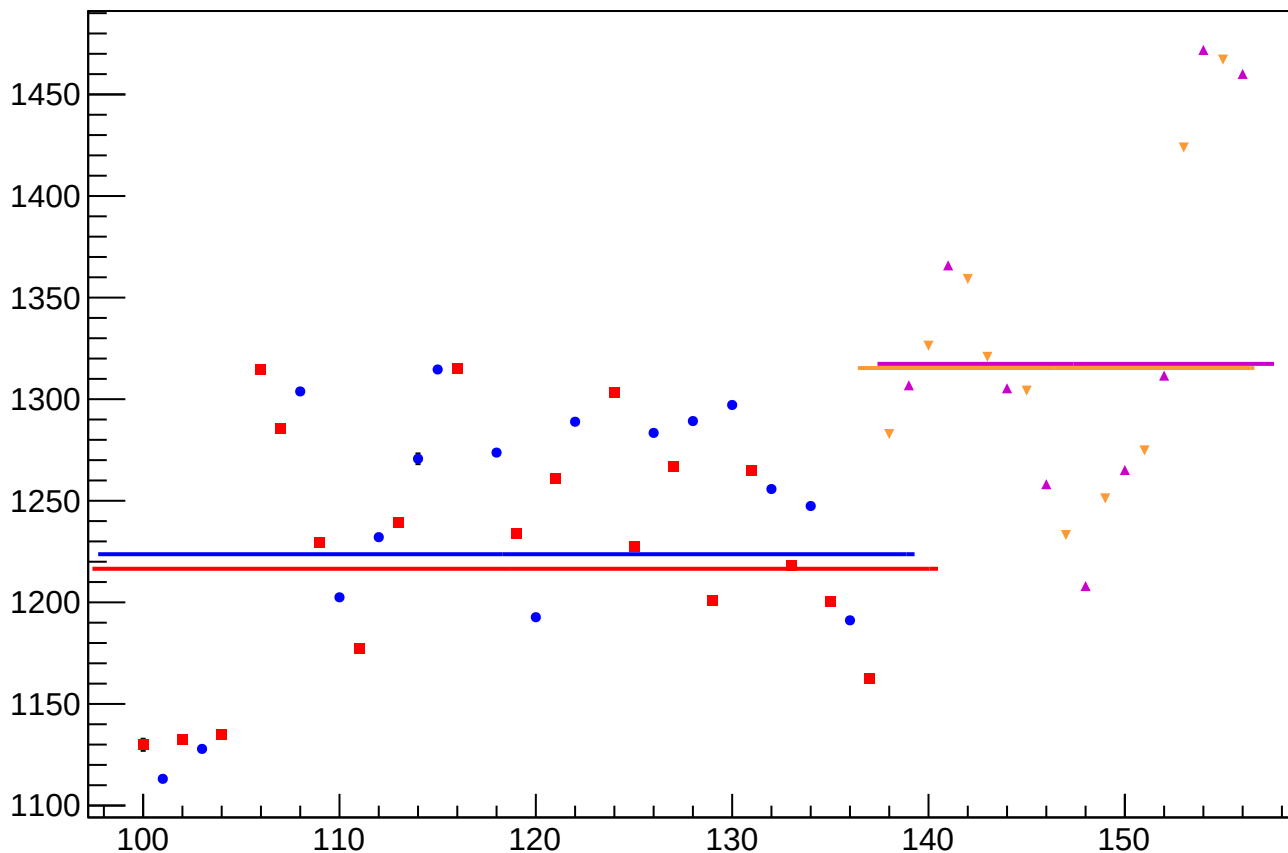
Right: -23.008 ± 0.318 χ^2/NDF : 7638.0/34

In: -12.014 ± 0.328 χ^2/NDF : 4324.6/24

Out: -4.945 ± 0.323 χ^2/NDF : 10421.1/28

All: -8.429 ± 0.230 χ^2/NDF : 14981.9/53

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1223.702 $\pm$ 0.322 χ^2 /NDF: 40883.8/15

Left Out: 1315.329 $\pm$ 0.333 χ^2 /NDF: 42913.0/9

Right Out: 1216.533 $\pm$ 0.314 χ^2 /NDF: 29381.0/18

Left In: 1317.382 $\pm$ 0.334 χ^2 /NDF: 58395.7/8

Left: 1316.352 $\pm$ 0.236 χ^2 /NDF: 101327.6/18

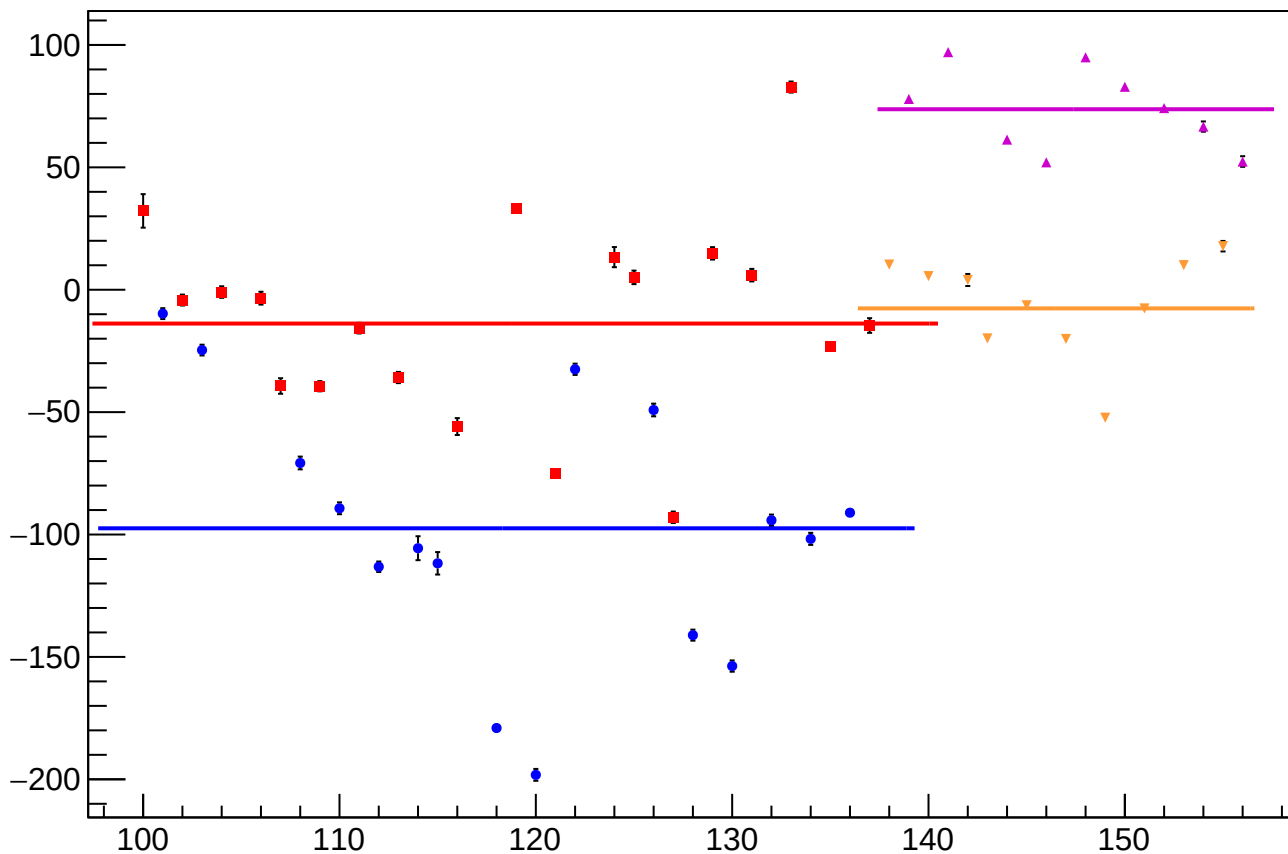
Right: 1220.031 $\pm$ 0.225 χ^2 /NDF: 70518.8/34

In: 1268.856 $\pm$ 0.232 χ^2 /NDF: 140100.8/24

Out: 1263.138 $\pm$ 0.228 χ^2 /NDF: 118931.3/28

All: 1265.956 $\pm$ 0.163 χ^2 /NDF: 259341.0/53

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.455 ± 0.579 χ^2/NDF : 8300.2/15

Left Out: -7.618 ± 0.598 χ^2/NDF : 1109.6/9

Right Out: -13.816 ± 0.566 χ^2/NDF : 5352.2/18

Left In: 73.741 ± 0.605 χ^2/NDF : 675.9/8

Left: 32.592 ± 0.425 χ^2/NDF : 10944.6/18

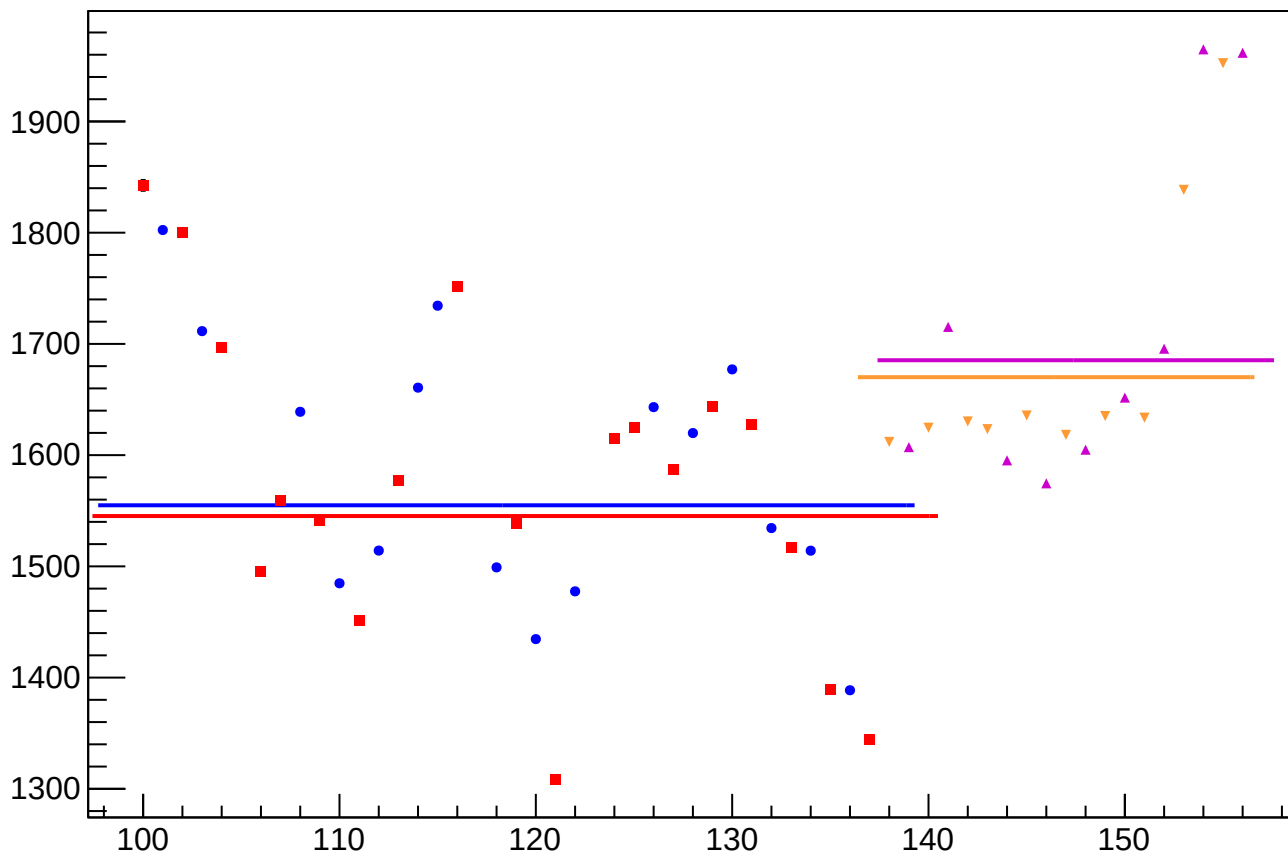
Right: -54.632 ± 0.405 χ^2/NDF : 24320.8/34

In: -15.493 ± 0.418 χ^2/NDF : 50770.4/24

Out: -10.888 ± 0.411 χ^2/NDF : 6518.5/28

All: -13.149 ± 0.293 χ^2/NDF : 57350.6/53

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1554.908 $\pm$ 0.410 χ^2 /NDF: 87920.1/15

Left Out: 1670.098 $\pm$ 0.423 χ^2 /NDF: 57593.3/9

Right Out: 1545.239 $\pm$ 0.400 χ^2 /NDF: 108789.4/18

Left In: 1685.317 $\pm$ 0.428 χ^2 /NDF: 92333.2/8

Left: 1677.620 $\pm$ 0.301 χ^2 /NDF: 150567.5/18

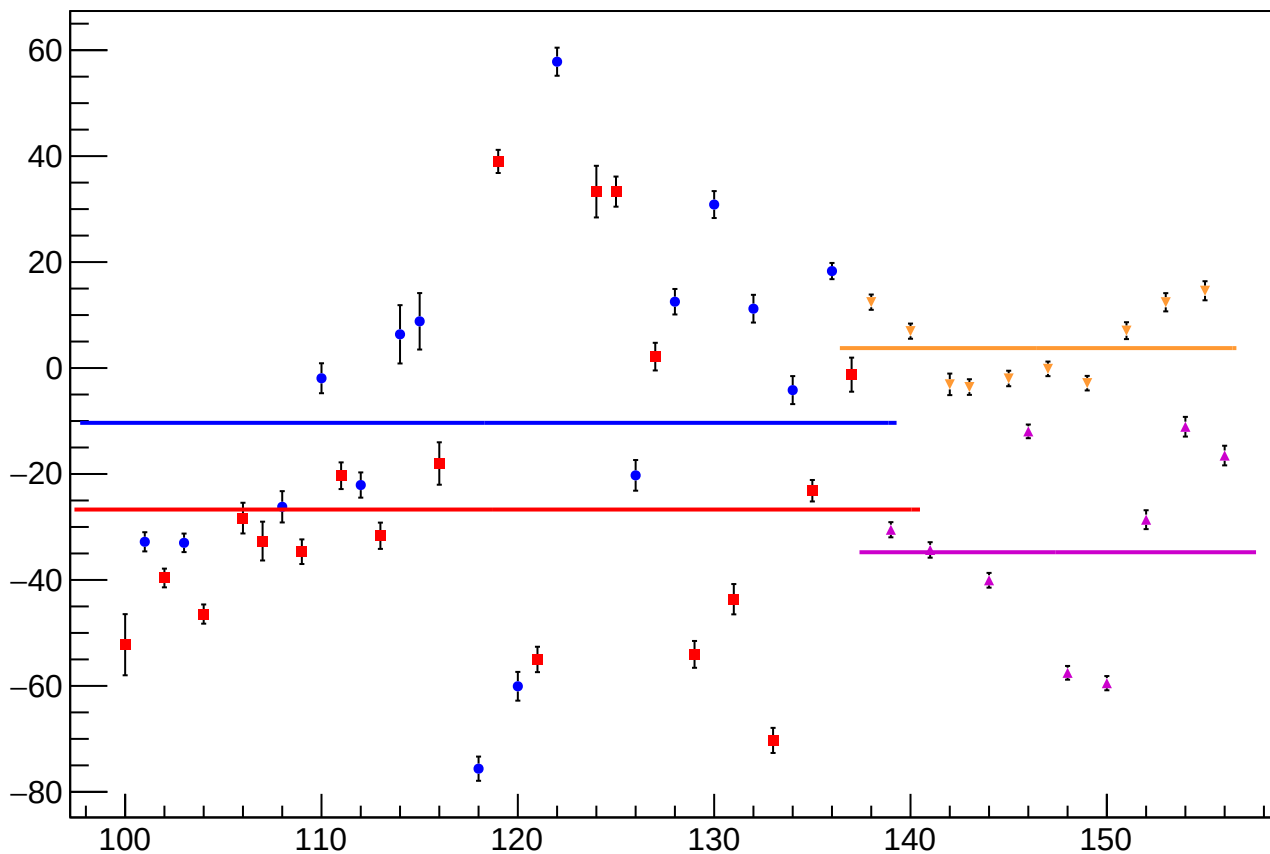
Right: 1549.957 $\pm$ 0.286 χ^2 /NDF: 196994.7/34

In: 1617.343 $\pm$ 0.296 χ^2 /NDF: 228756.7/24

Out: 1604.239 $\pm$ 0.291 χ^2 /NDF: 212427.0/28

All: 1610.672 $\pm$ 0.207 χ^2 /NDF: 442182.7/53

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -10.345 ± 0.603 χ^2/NDF : 3007.0/15

Left Out: 3.763 ± 0.486 χ^2/NDF : 189.5/9

Right Out: -26.709 ± 0.586 χ^2/NDF : 2540.7/18

Left In: -34.769 ± 0.493 χ^2/NDF : 1251.7/8

Left: -15.229 ± 0.346 χ^2/NDF : 4537.1/18

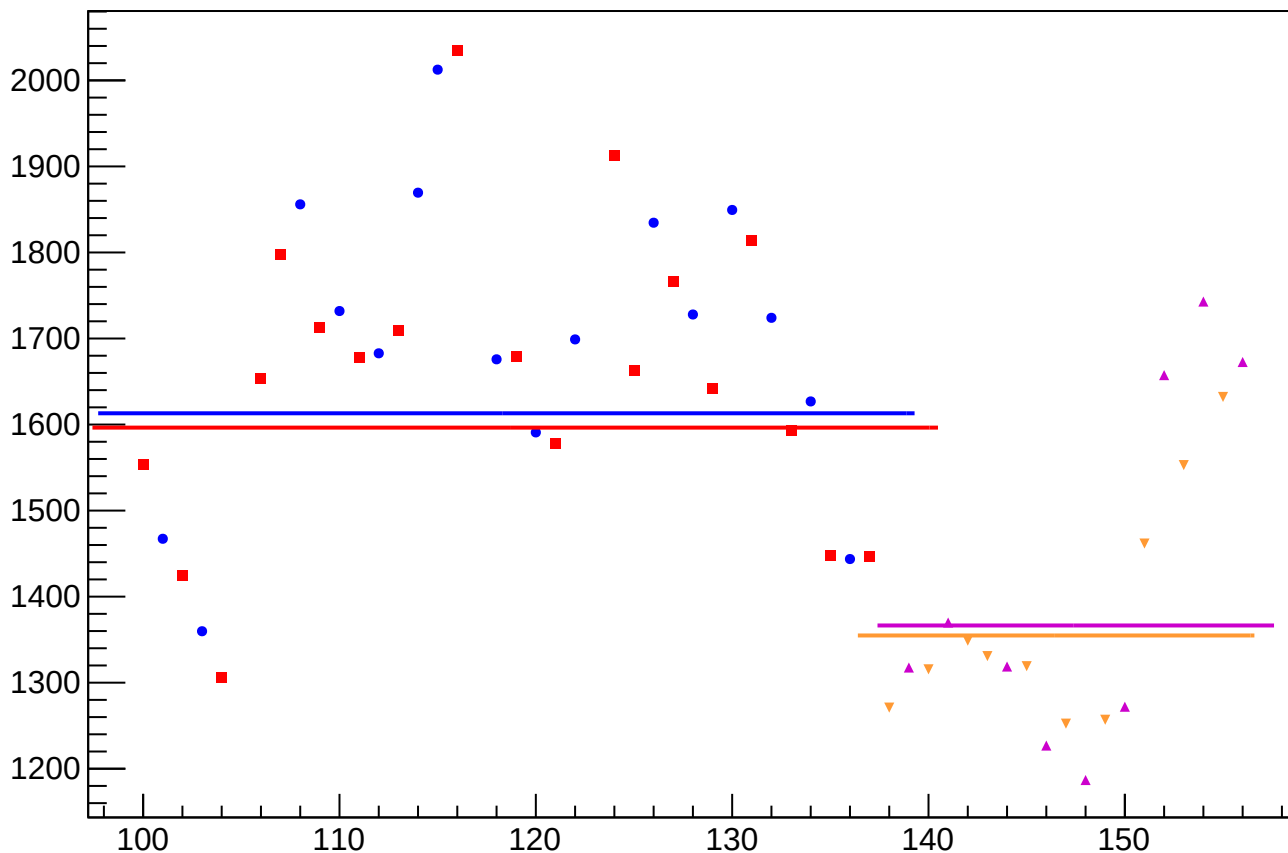
Right: -18.758 ± 0.420 χ^2/NDF : 5926.2/34

In: -24.983 ± 0.382 χ^2/NDF : 5241.5/24

Out: -8.651 ± 0.374 χ^2/NDF : 4330.6/28

All: -16.655 ± 0.267 χ^2/NDF : 10505.3/53

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1613.094 $\pm$ 0.426 χ^2 /NDF: 154710.6/15

Left Out: 1354.864 $\pm$ 0.344 χ^2 /NDF:114068.9/9

Right Out: 1596.442 $\pm$ 0.415 χ^2 /NDF: 160714.8/18

Left In: 1366.486 $\pm$ 0.349 χ^2 /NDF:265886.7/8

Left: 1360.592 $\pm$ 0.245 χ^2 /NDF: 380519.0/18

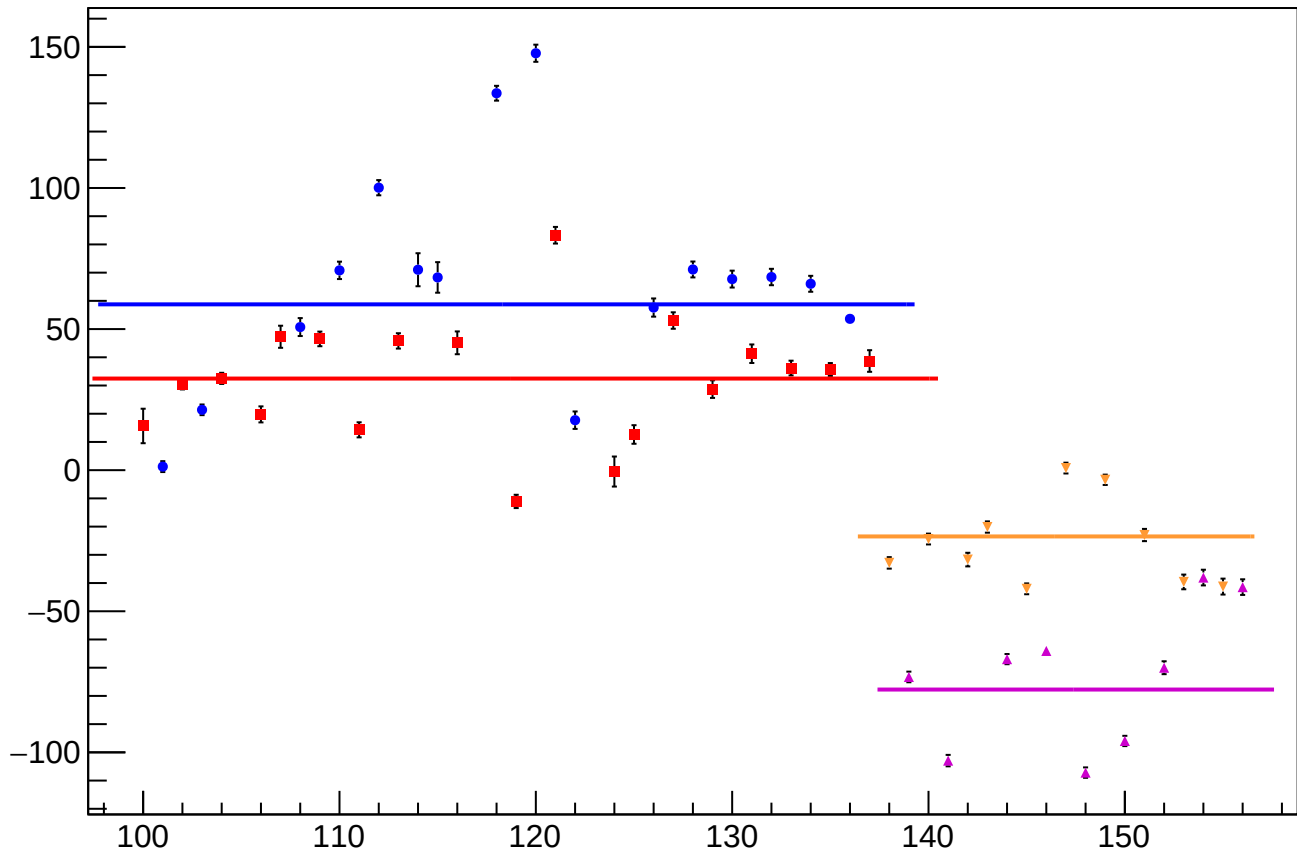
Right: 1604.533 $\pm$ 0.297 χ^2 /NDF: 316209.2/34

In: 1465.295 $\pm$ 0.270 χ^2 /NDF:620987.9/24

Out: 1453.281 $\pm$ 0.265 χ^2 /NDF:475965.4/28

All: 1459.168 $\pm$ 0.189 χ^2 /NDF: 1097963.4/53

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 58.761 ± 0.672 $\chi^2/\text{NDF}: 3443.3/15$

Left Out: -23.486 ± 0.665 $\chi^2/\text{NDF}: 487.4/9$

Right Out: 32.467 ± 0.648 $\chi^2/\text{NDF}: 930.8/18$

Left In: -77.744 ± 0.675 $\chi^2/\text{NDF}: 997.0/8$

Left: -50.224 ± 0.474 $\chi^2/\text{NDF}: 4764.9/18$

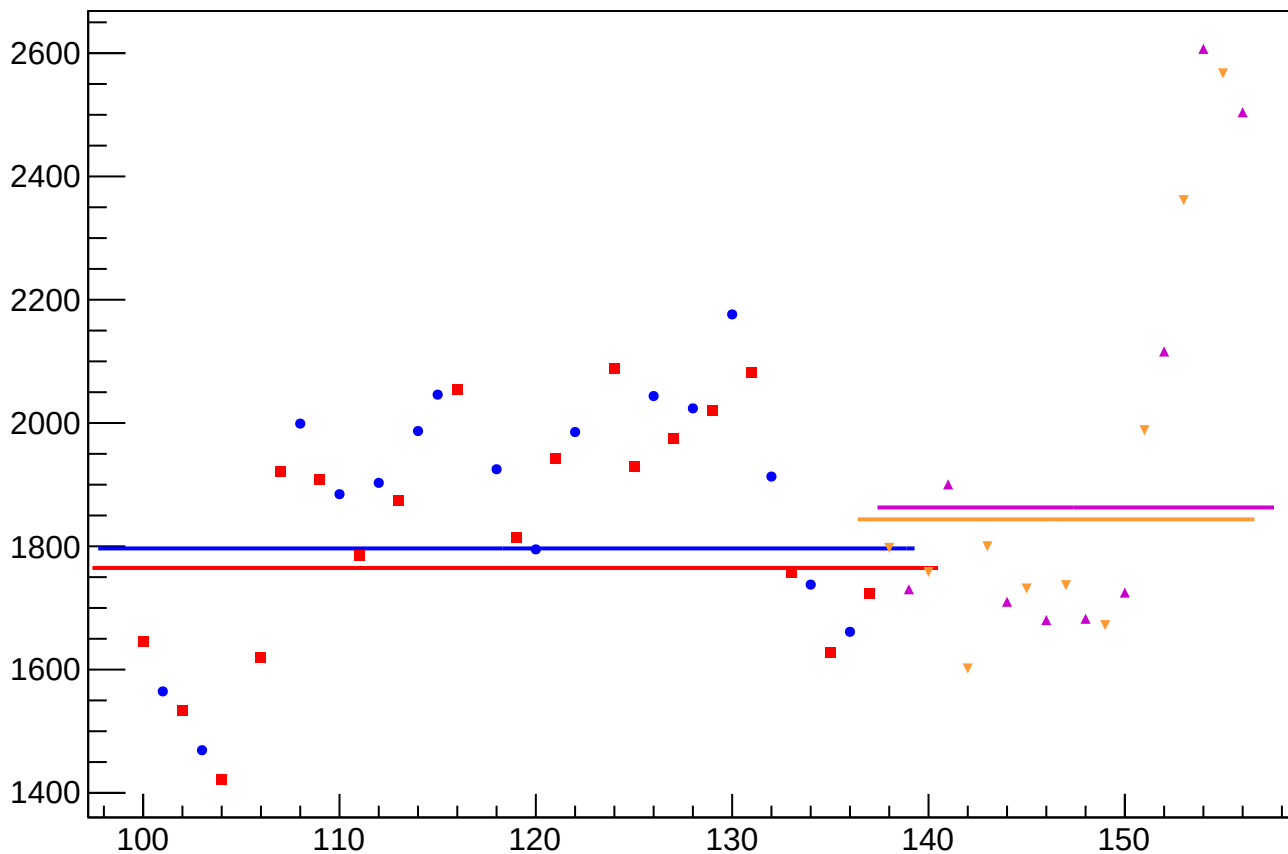
Right: 45.136 ± 0.467 $\chi^2/\text{NDF}: 5166.5/34$

In: -9.267 ± 0.476 $\chi^2/\text{NDF}: 24976.3/24$

Out: 5.196 ± 0.464 $\chi^2/\text{NDF}: 5047.0/28$

All: -1.851 ± 0.332 $\chi^2/\text{NDF}: 30496.2/53$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1796.555+/-0.475 χ^2/NDF : 193171.9/15

Left Out: 1843.776+/-0.470 χ^2/NDF : 275711.6/9

Right Out: 1764.860+/-0.459 χ^2/NDF : 189987.9/18

Left In: 1862.984+/-0.477 χ^2/NDF : 351659.8/8

Left: 1853.242+/-0.335 χ^2/NDF : 628193.7/18

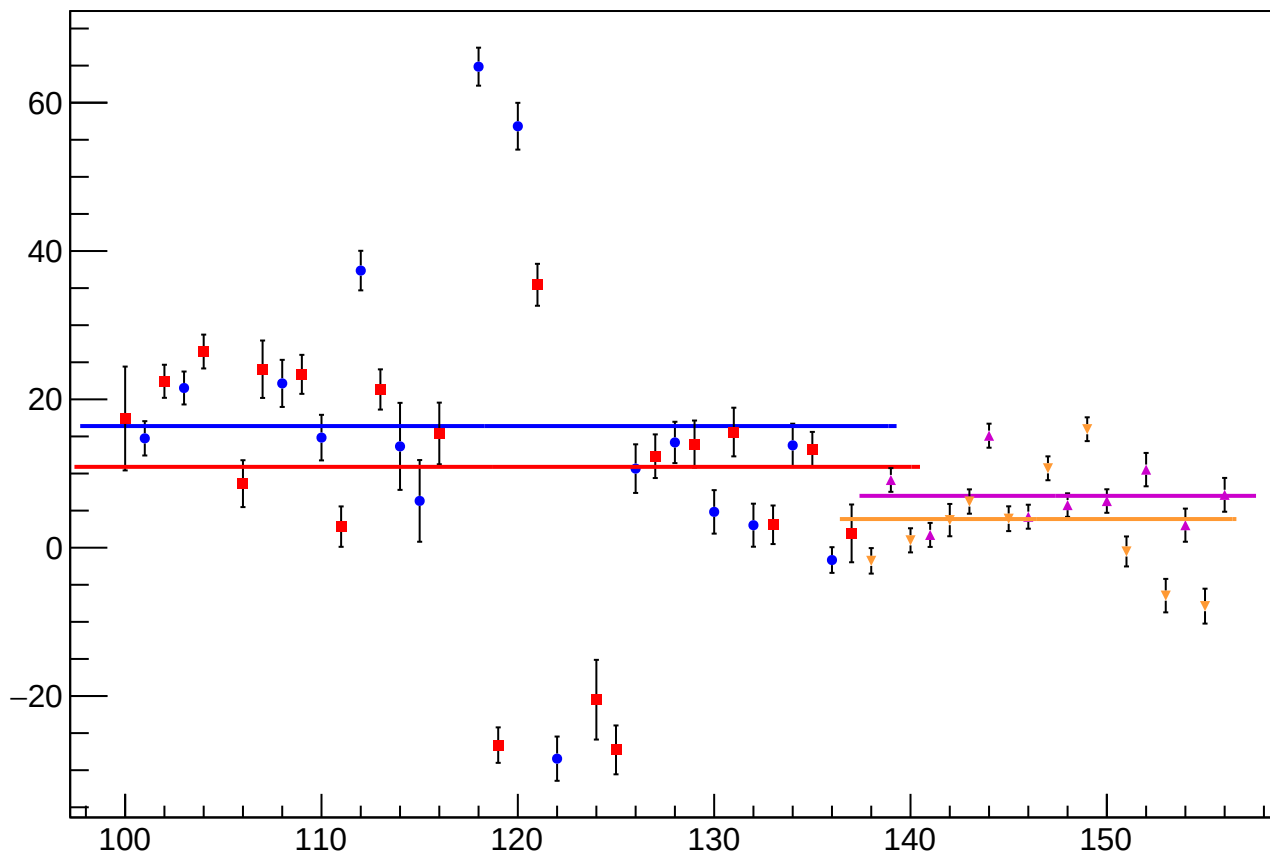
Right: 1780.131+/-0.330 χ^2/NDF : 385462.0/34

In: 1829.660+/-0.337 χ^2/NDF : 554558.5/24

Out: 1803.322+/-0.328 χ^2/NDF : 480136.9/28

All: 1816.155+/-0.235 χ^2/NDF : 1037831.6/53

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.400 ± 0.695 $\chi^2/\text{NDF}: 973.0/15$

Left Out: 3.863 ± 0.573 $\chi^2/\text{NDF}: 141.4/9$

Right Out: 10.899 ± 0.676 $\chi^2/\text{NDF}: 641.7/18$

Left In: 6.990 ± 0.585 $\chi^2/\text{NDF}: 46.9/8$

Left: 5.393 ± 0.409 $\chi^2/\text{NDF}: 202.9/18$

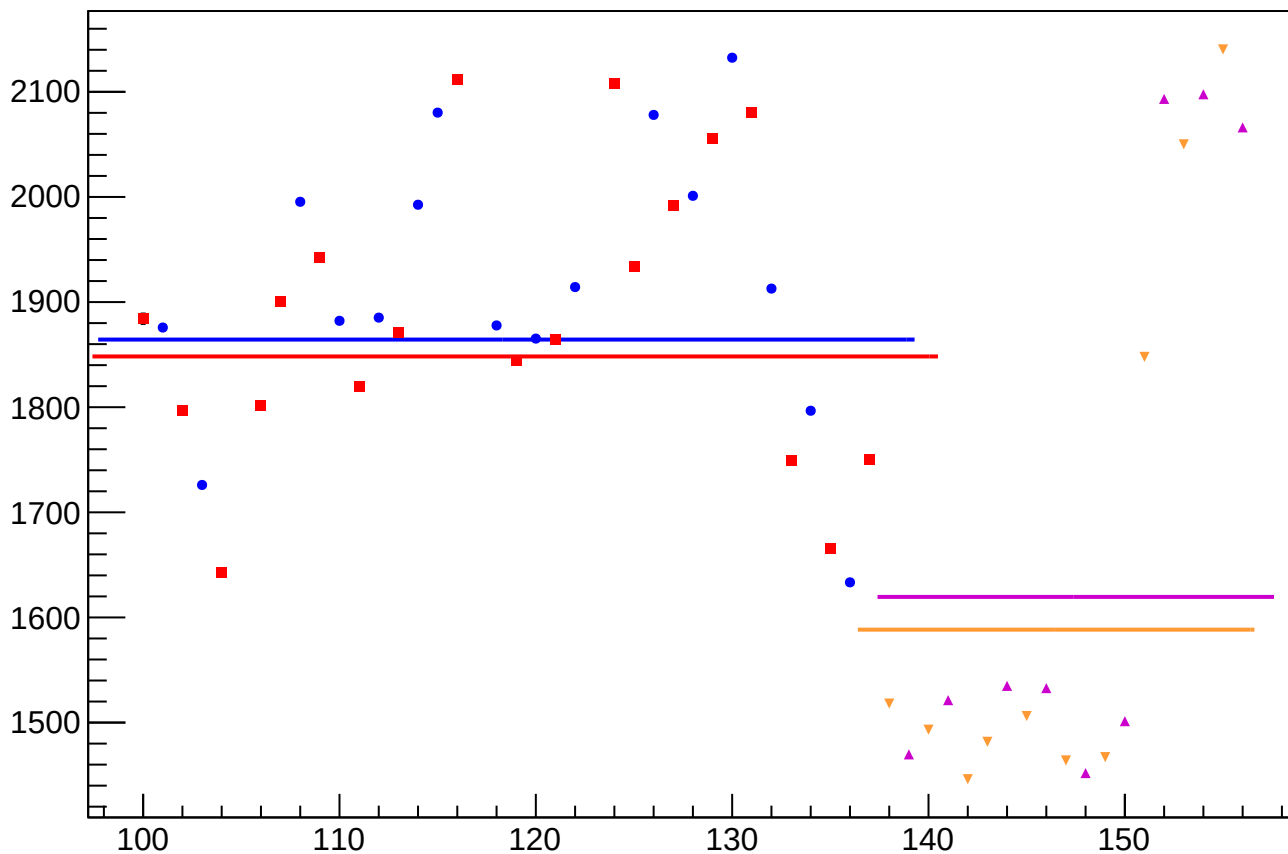
Right: 13.575 ± 0.485 $\chi^2/\text{NDF}: 1646.8/34$

In: 10.893 ± 0.448 $\chi^2/\text{NDF}: 1127.1/24$

Out: 6.800 ± 0.437 $\chi^2/\text{NDF}: 846.2/28$

All: 8.798 ± 0.313 $\chi^2/\text{NDF}: 2016.1/53$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1864.335 $\pm$ 0.491 χ^2 /NDF: 83311.5/15

Left Out: 1588.380 $\pm$ 0.405 χ^2 /NDF: 282002.4/9

Right Out: 1848.284 $\pm$ 0.478 χ^2 /NDF: 74956.9/18

Left In: 1619.545 $\pm$ 0.414 χ^2 /NDF: 326591.8/8

Left: 1603.627 $\pm$ 0.289 χ^2 /NDF: 611493.5/18

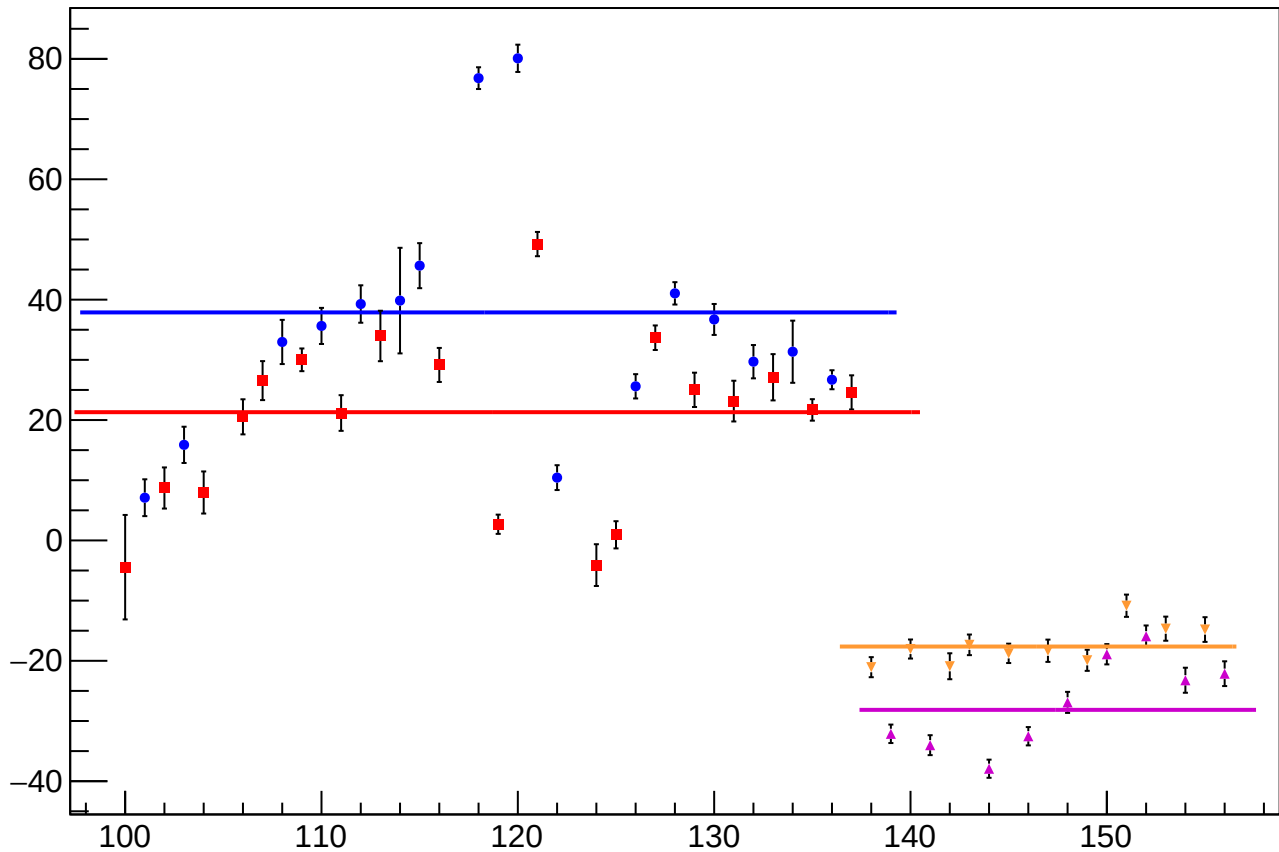
Right: 1856.091 $\pm$ 0.343 χ^2 /NDF: 158816.4/34

In: 1721.062 $\pm$ 0.316 χ^2 /NDF: 555132.3/24

Out: 1696.888 $\pm$ 0.309 χ^2 /NDF: 529040.9/28

All: 1708.685 $\pm$ 0.221 χ^2 /NDF: 1087160.5/53

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.880 ± 0.622 χ^2/NDF : 1249.8/15

Left Out: -17.629 ± 0.568 χ^2/NDF : 26.5/9

Right Out: 21.306 ± 0.593 χ^2/NDF : 582.6/18

Left In: -28.149 ± 0.566 χ^2/NDF : 160.9/8

Left: -22.907 ± 0.401 χ^2/NDF : 359.5/18

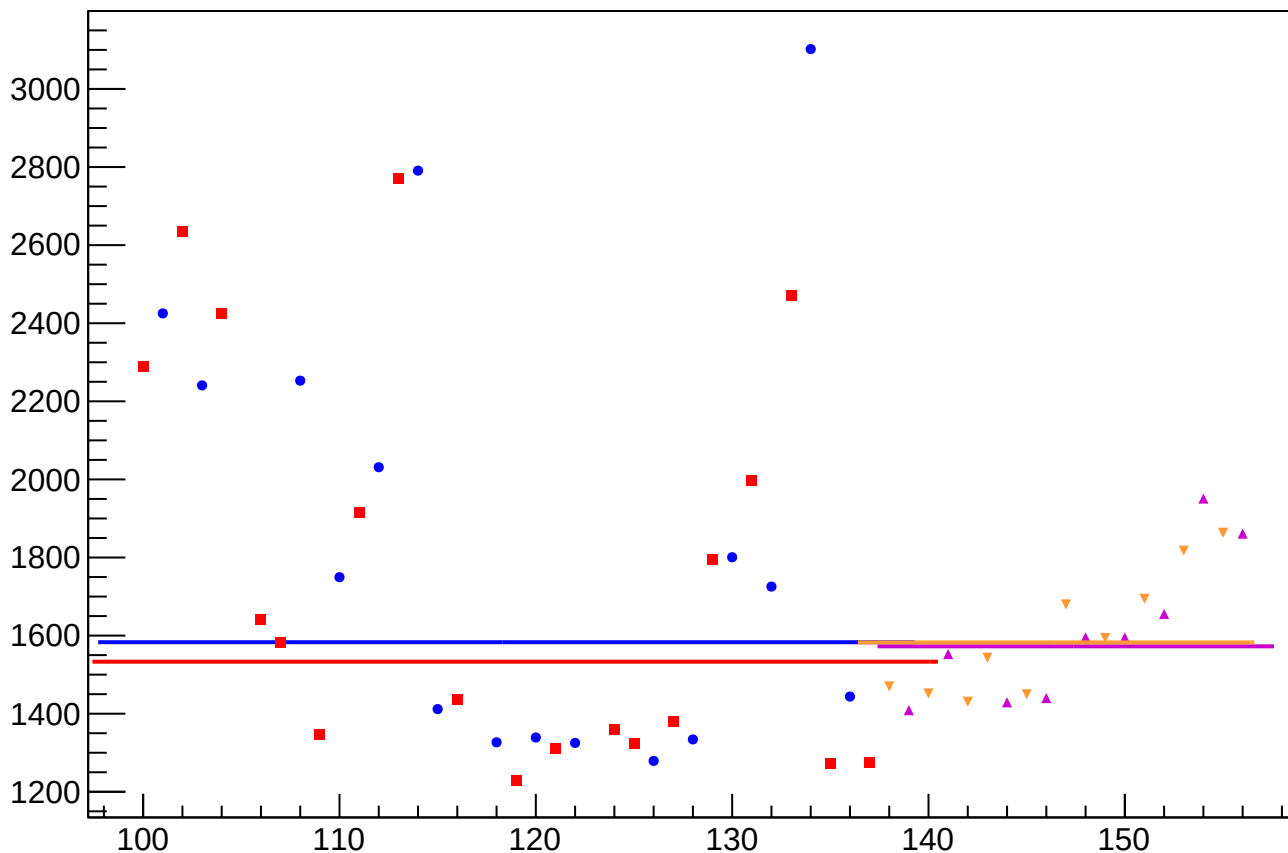
Right: 29.192 ± 0.429 χ^2/NDF : 2204.2/34

In: 1.751 ± 0.419 χ^2/NDF : 7569.6/24

Out: 1.006 ± 0.410 χ^2/NDF : 2857.2/28

All: 1.371 ± 0.293 χ^2/NDF : 10428.5/53

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1583.050 $\pm$ 0.440 χ^2/NDF : 787672.4/15

Left Out: 1582.552 $\pm$ 0.402 χ^2/NDF :125317.8/9

Right Out: 1533.190 $\pm$ 0.419 χ^2/NDF : 950777.4/18

Left In: 1572.546 $\pm$ 0.400 χ^2/NDF :166841.4/8

Left: 1577.532 $\pm$ 0.284 χ^2/NDF : 292470.4/18

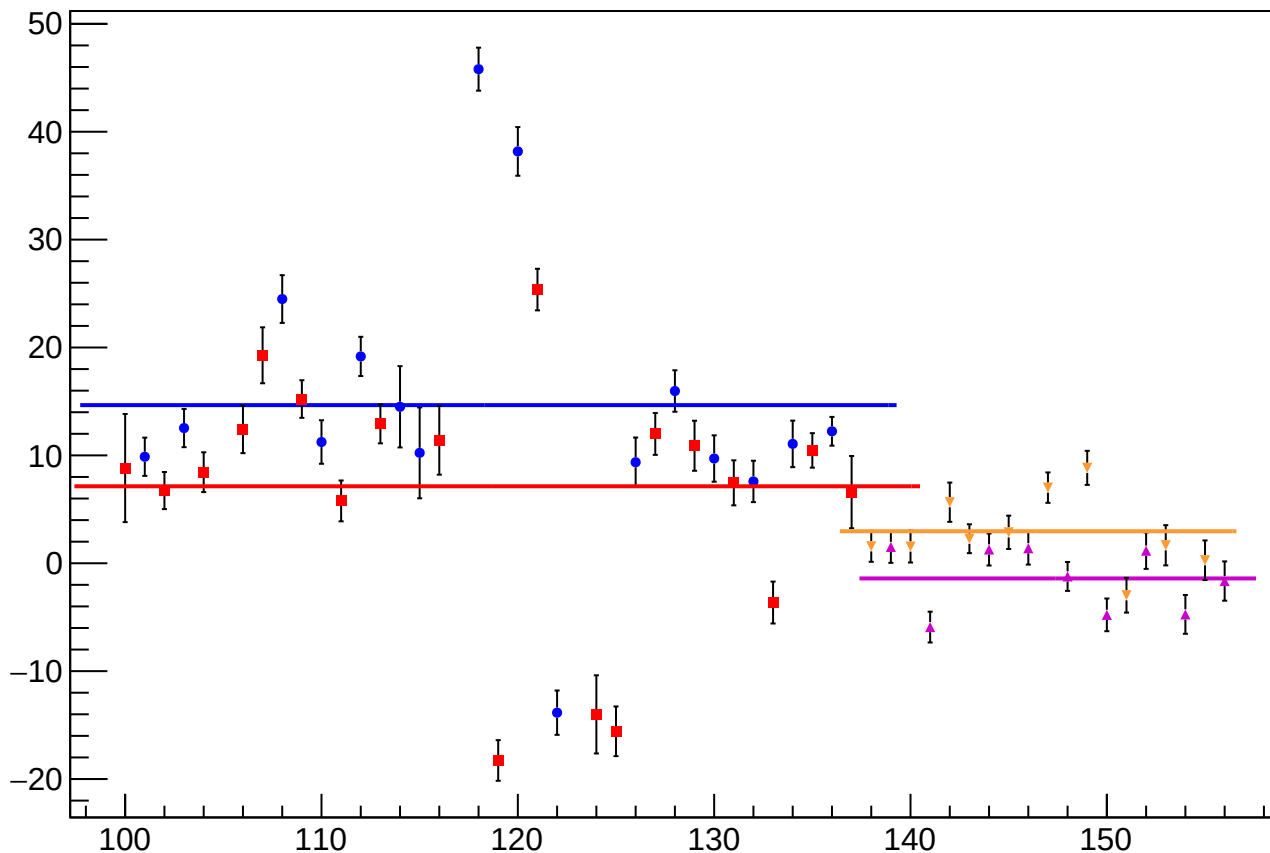
Right: 1556.913 $\pm$ 0.304 χ^2/NDF : 1745178.6/34

In: 1577.302 $\pm$ 0.296 χ^2/NDF :954825.4/24

Out: 1558.926 $\pm$ 0.290 χ^2/NDF :1083322.1/28

All: 1567.924 $\pm$ 0.207 χ^2/NDF : 2040112.8/53

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.658 $\pm$ 0.504 χ^2/NDF : 614.8/15

Left Out: 2.968 $\pm$ 0.494 χ^2/NDF : 42.6/9

Right Out: 7.135 $\pm$ 0.483 χ^2/NDF : 509.4/18

Left In: -1.407 $\pm$ 0.514 χ^2/NDF : 31.3/8

Left: 0.864 $\pm$ 0.356 χ^2/NDF : 111.6/18

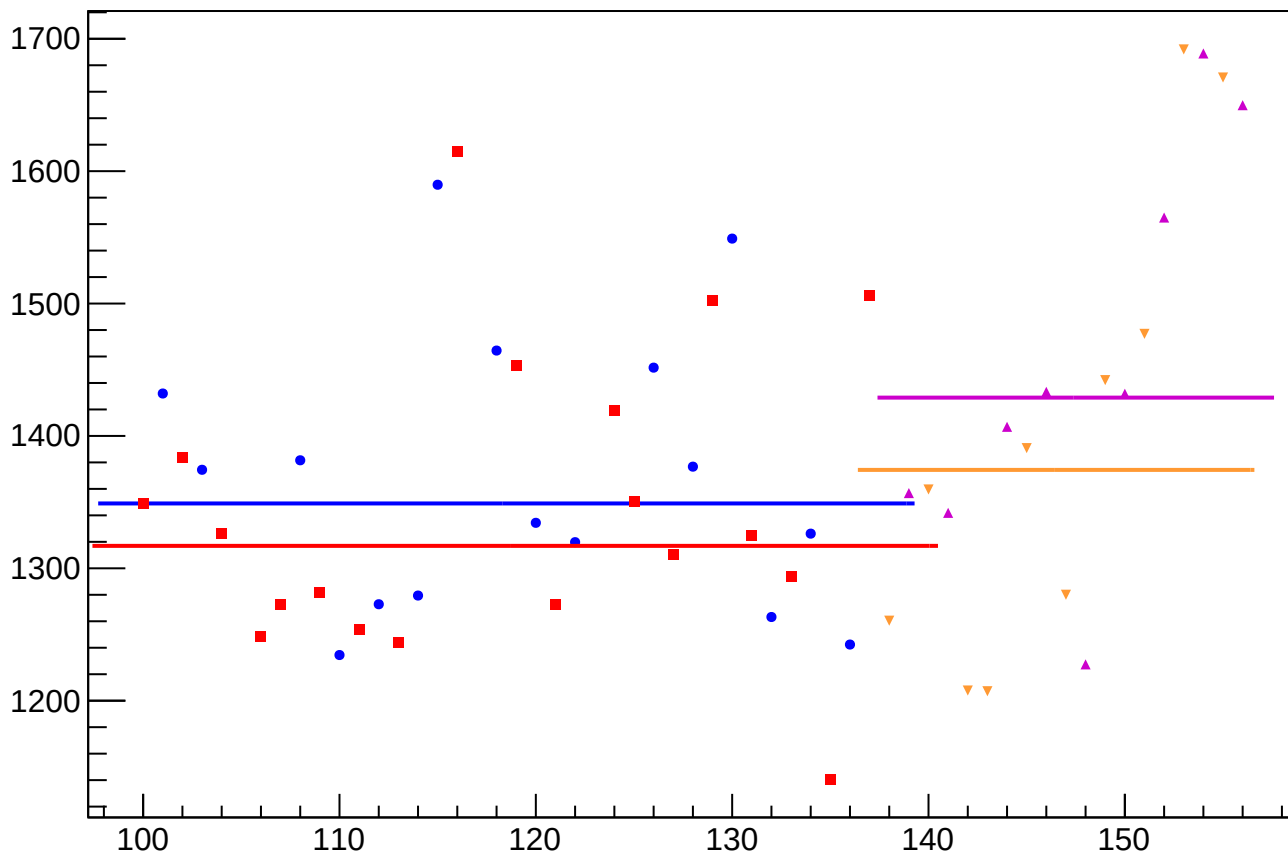
Right: 10.734 $\pm$ 0.349 χ^2/NDF : 1240.2/34

In: 6.768 $\pm$ 0.360 χ^2/NDF : 1144.1/24

Out: 5.098 $\pm$ 0.346 χ^2/NDF : 588.4/28

All: 5.899 $\pm$ 0.249 χ^2/NDF : 1743.7/53

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.000 $\pm$ 0.357 χ^2 /NDF: 68383.7/15

Left Out: 1374.342 $\pm$ 0.349 χ^2 /NDF: 191964.8/9

Right Out: 1316.961 $\pm$ 0.342 χ^2 /NDF: 86873.7/18

Left In: 1428.940 $\pm$ 0.363 χ^2 /NDF: 142015.3/8

Left: 1400.597 $\pm$ 0.252 χ^2 /NDF: 345717.0/18

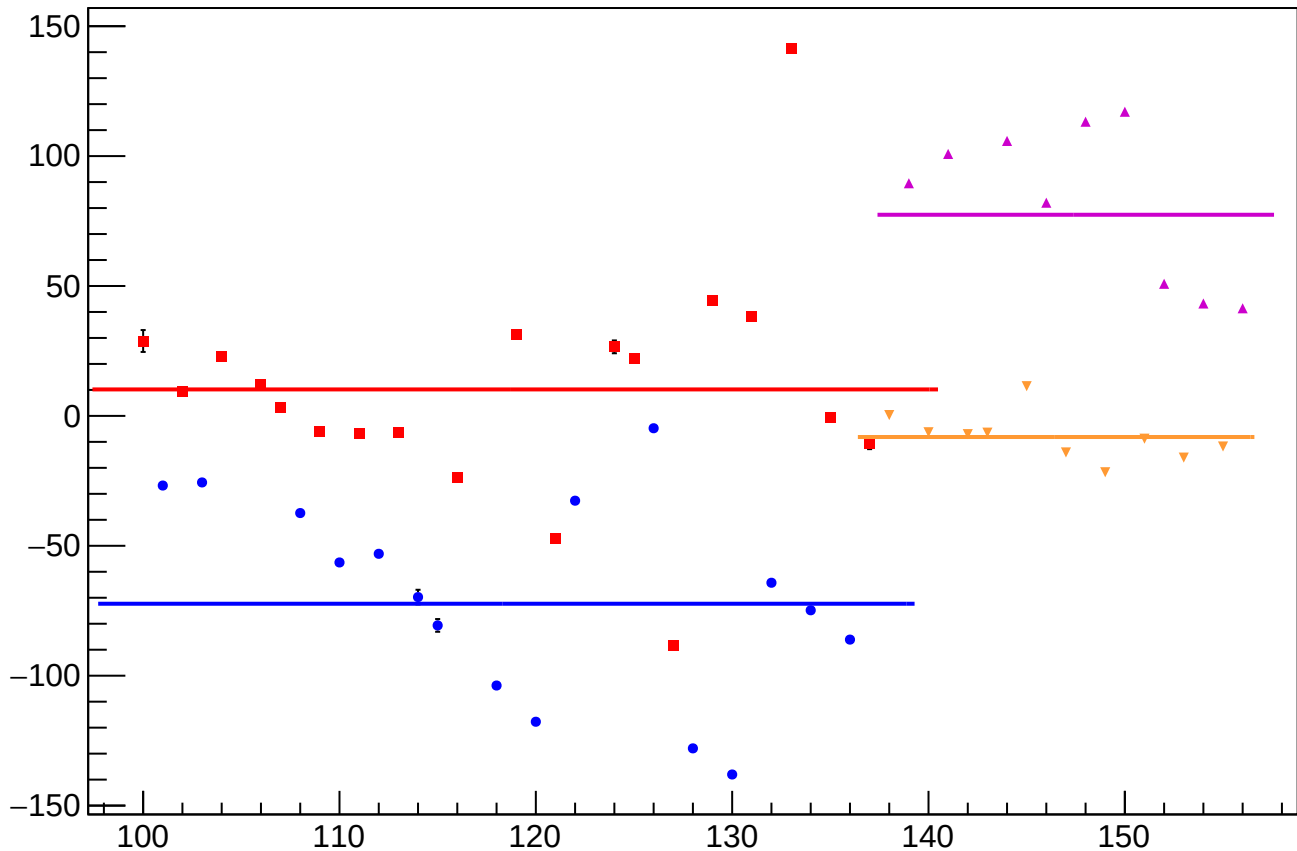
Right: 1332.289 $\pm$ 0.247 χ^2 /NDF: 159464.7/34

In: 1388.263 $\pm$ 0.254 χ^2 /NDF: 235062.6/24

Out: 1345.003 $\pm$ 0.244 χ^2 /NDF: 292623.0/28

All: 1365.752 $\pm$ 0.176 χ^2 /NDF: 542724.6/53

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.304 +/- 0.349 χ^2/NDF : 12153.8/15

Left Out: -8.129 +/- 0.317 χ^2/NDF : 691.9/9

Right Out: 10.188 +/- 0.345 χ^2/NDF : 19045.9/18

Left In: 77.417 +/- 0.323 χ^2/NDF : 7843.0/8

Left: 33.872 +/- 0.226 χ^2/NDF : 44207.2/18

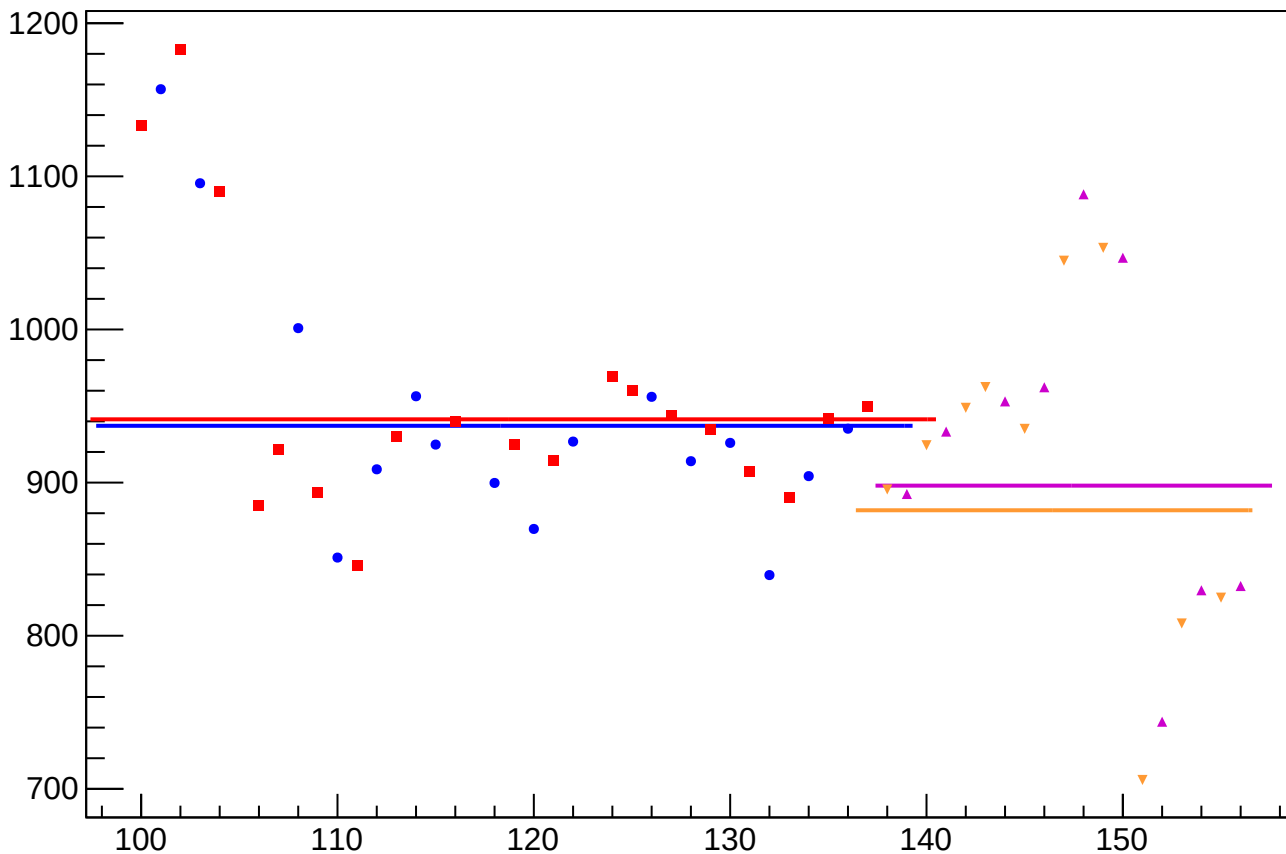
Right: -30.473 +/- 0.245 χ^2/NDF : 59456.9/34

In: 8.403 +/- 0.237 χ^2/NDF : 118946.3/24

Out: 0.279 +/- 0.233 χ^2/NDF : 21266.8/28

All: 4.275 +/- 0.166 χ^2/NDF : 140808.8/53

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.097 ± 0.247 χ^2/NDF : 104660.4/15

Left Out: 881.930 ± 0.224 χ^2/NDF : 236250.4/9

Right Out: 941.323 ± 0.244 χ^2/NDF : 101031.2/18

Left In: 898.020 ± 0.229 χ^2/NDF : 200079.6/8

Left: 889.830 ± 0.160 χ^2/NDF : 438853.8/18

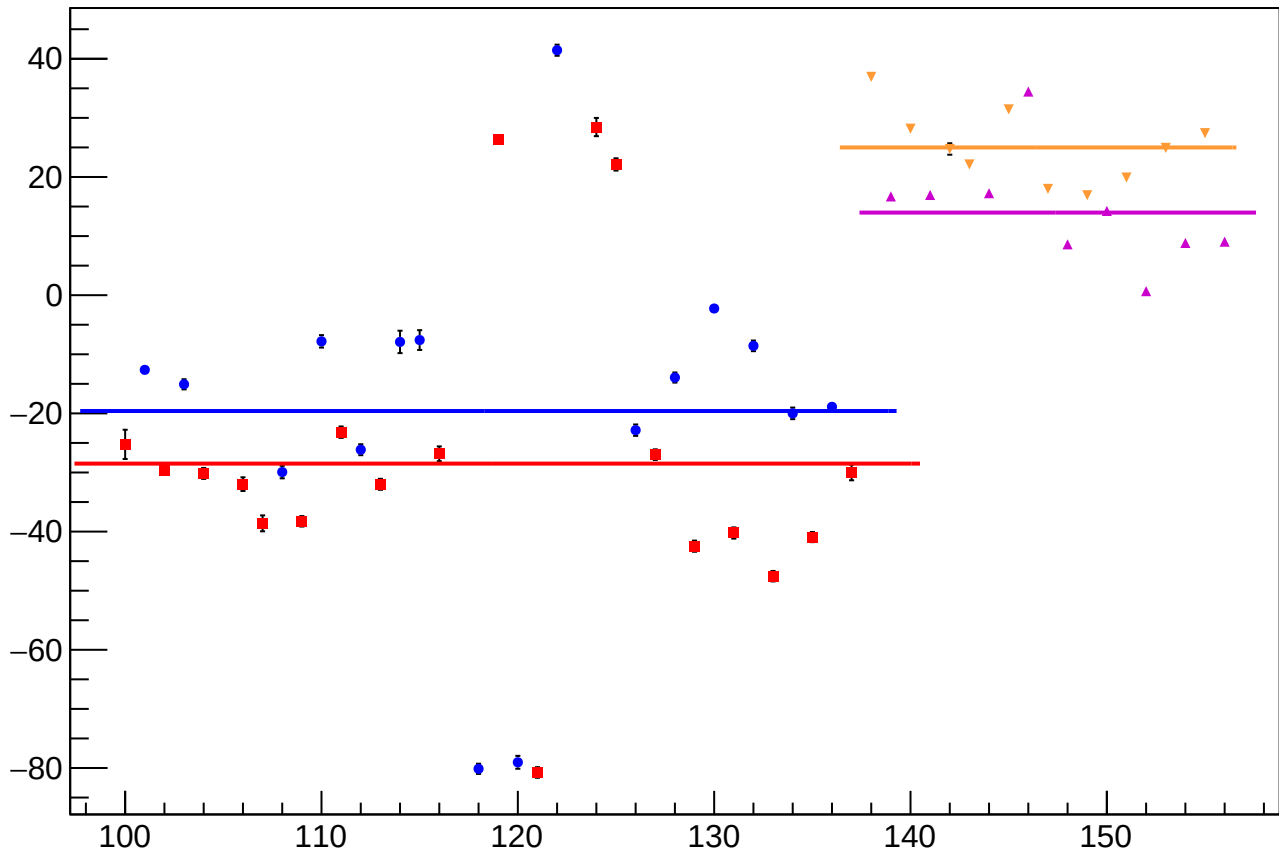
Right: 939.240 ± 0.173 χ^2/NDF : 205839.9/34

In: 916.033 ± 0.168 χ^2/NDF : 318221.2/24

Out: 909.193 ± 0.165 χ^2/NDF : 369433.7/28

All: 912.557 ± 0.118 χ^2/NDF : 688499.6/53

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -19.597 ± 0.234 $\chi^2/\text{NDF}: 13170.1/15$

Left Out: 24.994 ± 0.232 $\chi^2/\text{NDF}: 671.6/9$

Right Out: -28.496 ± 0.230 $\chi^2/\text{NDF}: 12971.2/18$

Left In: 13.975 ± 0.240 $\chi^2/\text{NDF}: 1425.2/8$

Left: 19.662 ± 0.167 $\chi^2/\text{NDF}: 3185.0/18$

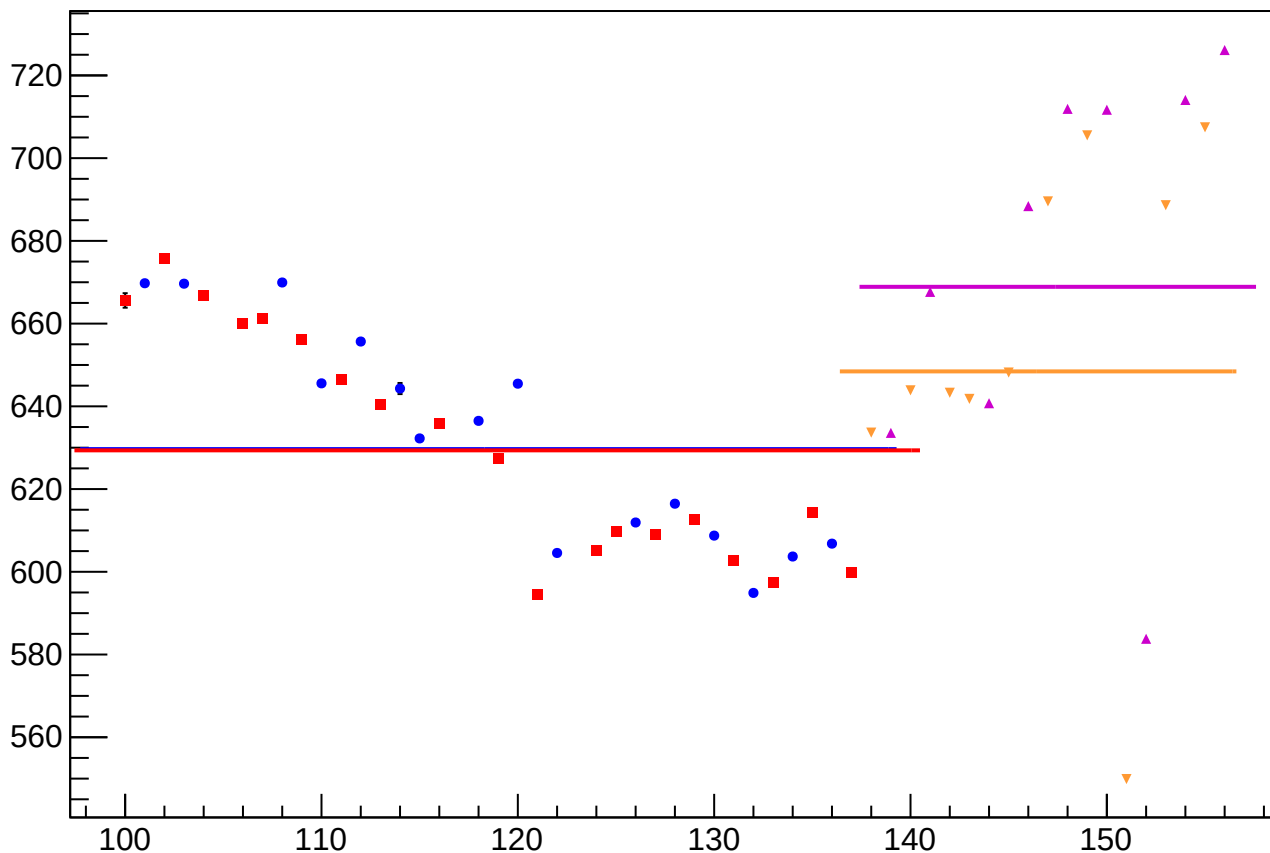
Right: -24.130 ± 0.164 $\chi^2/\text{NDF}: 26877.8/34$

In: -3.230 ± 0.168 $\chi^2/\text{NDF}: 24625.4/24$

Out: -2.062 ± 0.163 $\chi^2/\text{NDF}: 40447.5/28$

All: -2.631 ± 0.117 $\chi^2/\text{NDF}: 65097.8/53$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.660+/-0.166 χ^2/NDF : 25315.5/15

Left Out: 648.447+/-0.164 χ^2/NDF : 89163.8/9

Right Out: 629.361+/-0.162 χ^2/NDF : 26791.2/18

Left In: 668.894+/-0.170 χ^2/NDF : 75946.9/8

Left: 658.341+/-0.118 χ^2/NDF : 172604.3/18

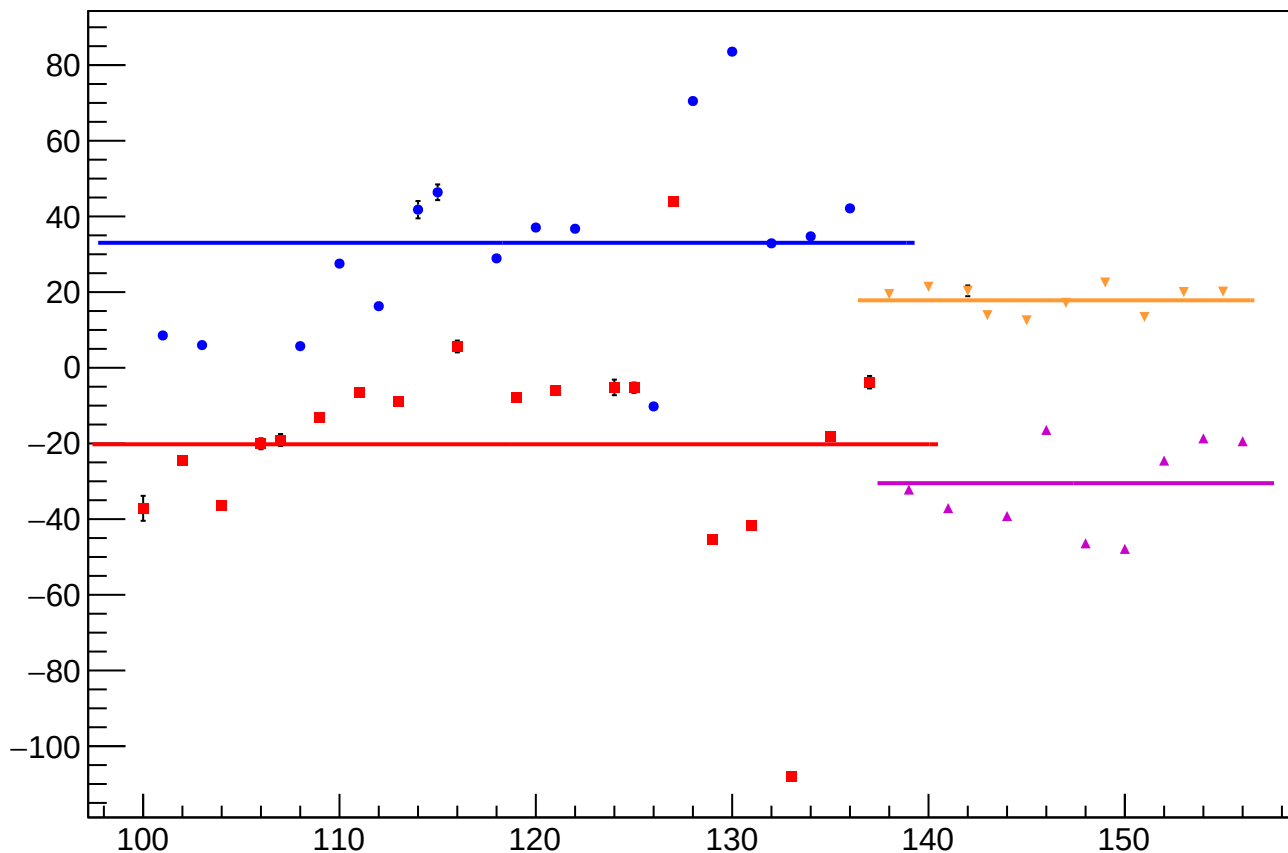
Right: 629.508+/-0.116 χ^2/NDF : 52108.4/34

In: 648.787+/-0.118 χ^2/NDF : 128659.7/24

Out: 638.793+/-0.116 χ^2/NDF : 122780.5/28

All: 643.663+/-0.083 χ^2/NDF : 255088.3/53

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.033+/-0.289 χ^2/NDF : 6700.1/15

Left Out: 17.832+/-0.341 χ^2/NDF :103.7/9

Right Out: -20.215+/-0.286 χ^2/NDF : 11869.7/18

Left In: -30.496+/-0.344 χ^2/NDF :1026.1/8

Left: -6.090+/-0.242 χ^2/NDF : 11069.0/18

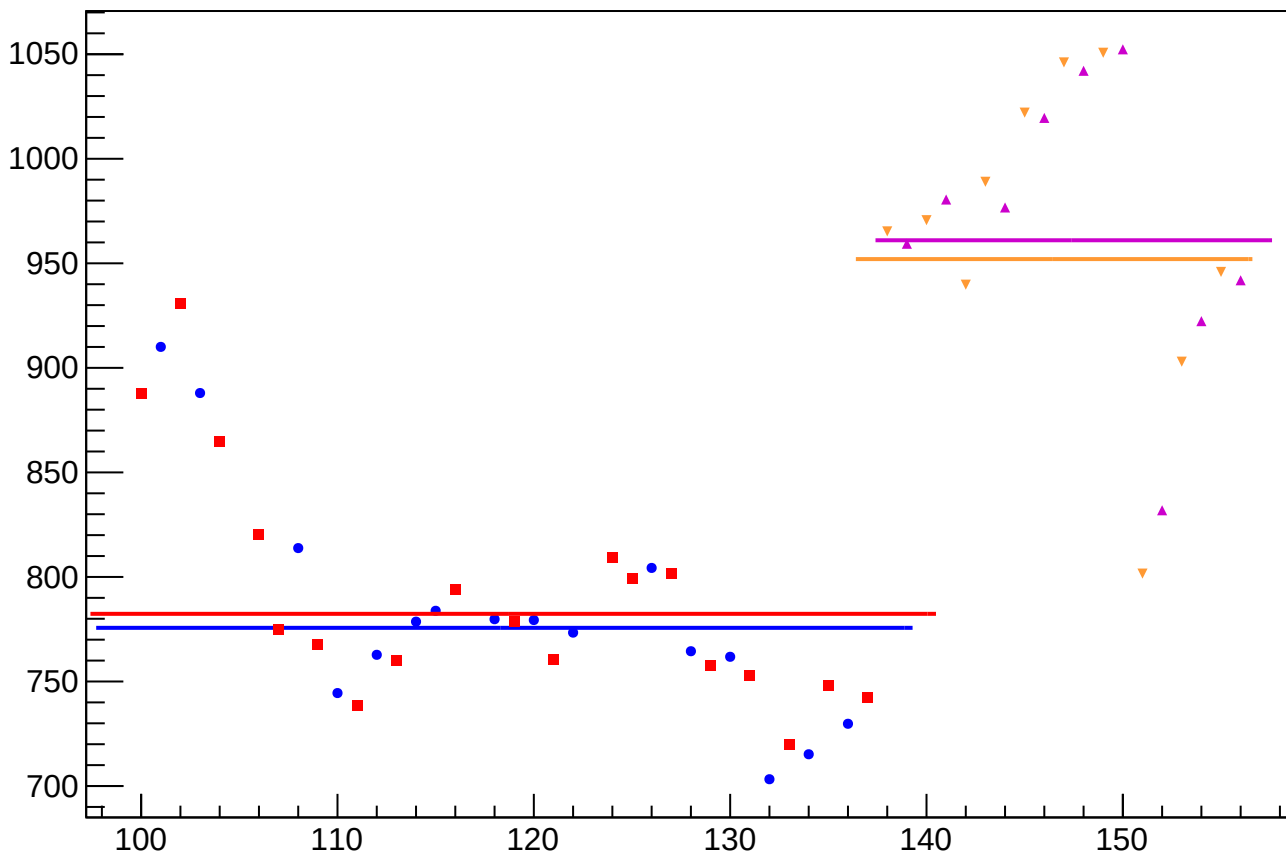
Right: 6.136+/-0.203 χ^2/NDF : 35729.1/34

In: 6.801+/-0.221 χ^2/NDF :27692.5/24

Out: -4.509+/-0.219 χ^2/NDF :19281.1/28

All: 1.088+/-0.156 χ^2/NDF : 48292.0/53

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 775.664 $\pm$ 0.204 χ^2 /NDF: 74660.0/15

Left Out: 952.022 $\pm$ 0.241 χ^2 /NDF:103436.9/9

Right Out: 782.358 $\pm$ 0.202 χ^2 /NDF: 64566.3/18

Left In: 961.023 $\pm$ 0.244 χ^2 /NDF:76002.8/8

Left: 956.477 $\pm$ 0.171 χ^2 /NDF: 180129.3/18

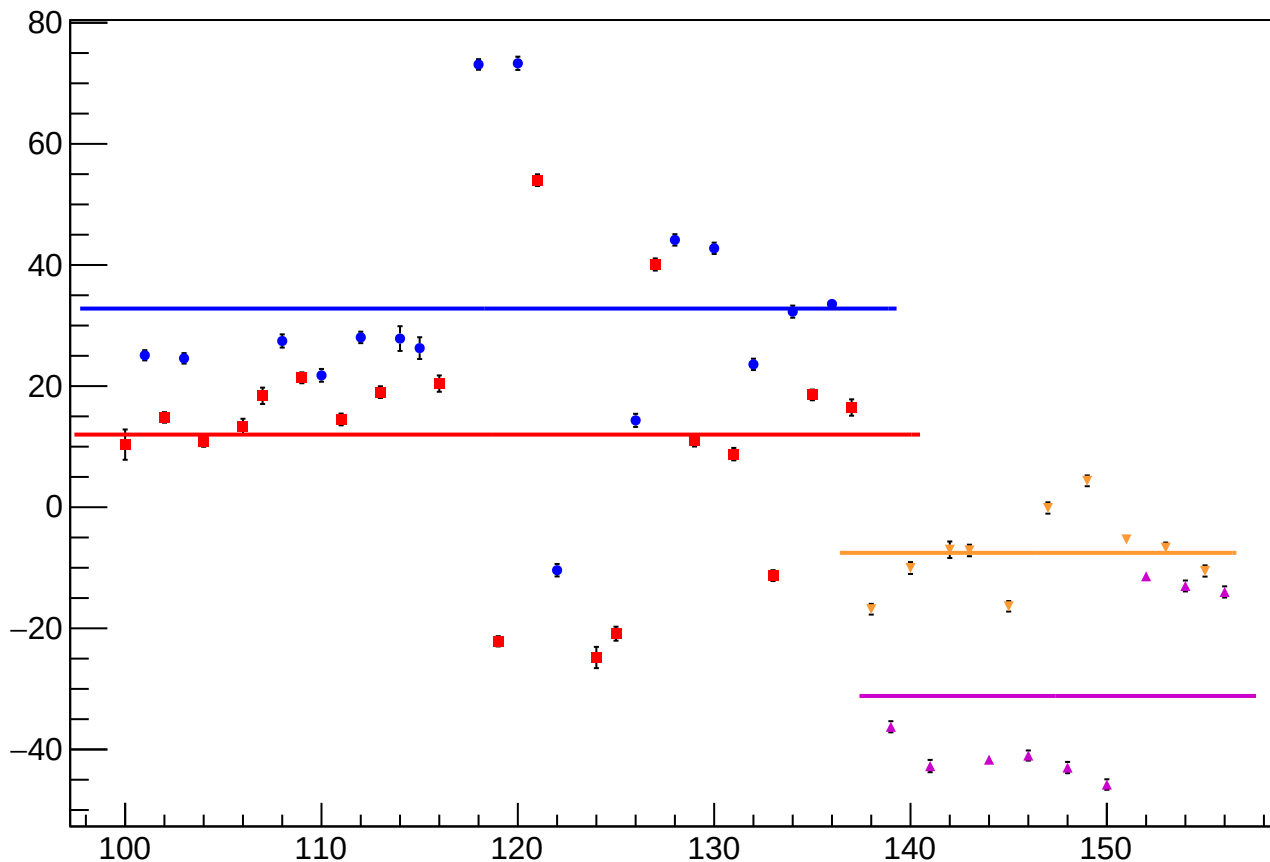
Right: 779.045 $\pm$ 0.144 χ^2 /NDF: 139768.7/34

In: 852.202 $\pm$ 0.157 χ^2 /NDF:490604.1/24

Out: 852.397 $\pm$ 0.155 χ^2 /NDF:458640.8/28

All: 852.301 $\pm$ 0.110 χ^2 /NDF: 949245.6/53

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.804+/-0.244 χ^2/NDF : 6259.3/15

Left Out: -7.533+/-0.285 χ^2/NDF : 485.1/9

Right Out: 11.994+/-0.241 χ^2/NDF : 6559.7/18

Left In: -31.168+/-0.290 χ^2/NDF : 2412.8/8

Left: -19.134+/-0.203 χ^2/NDF : 6282.2/18

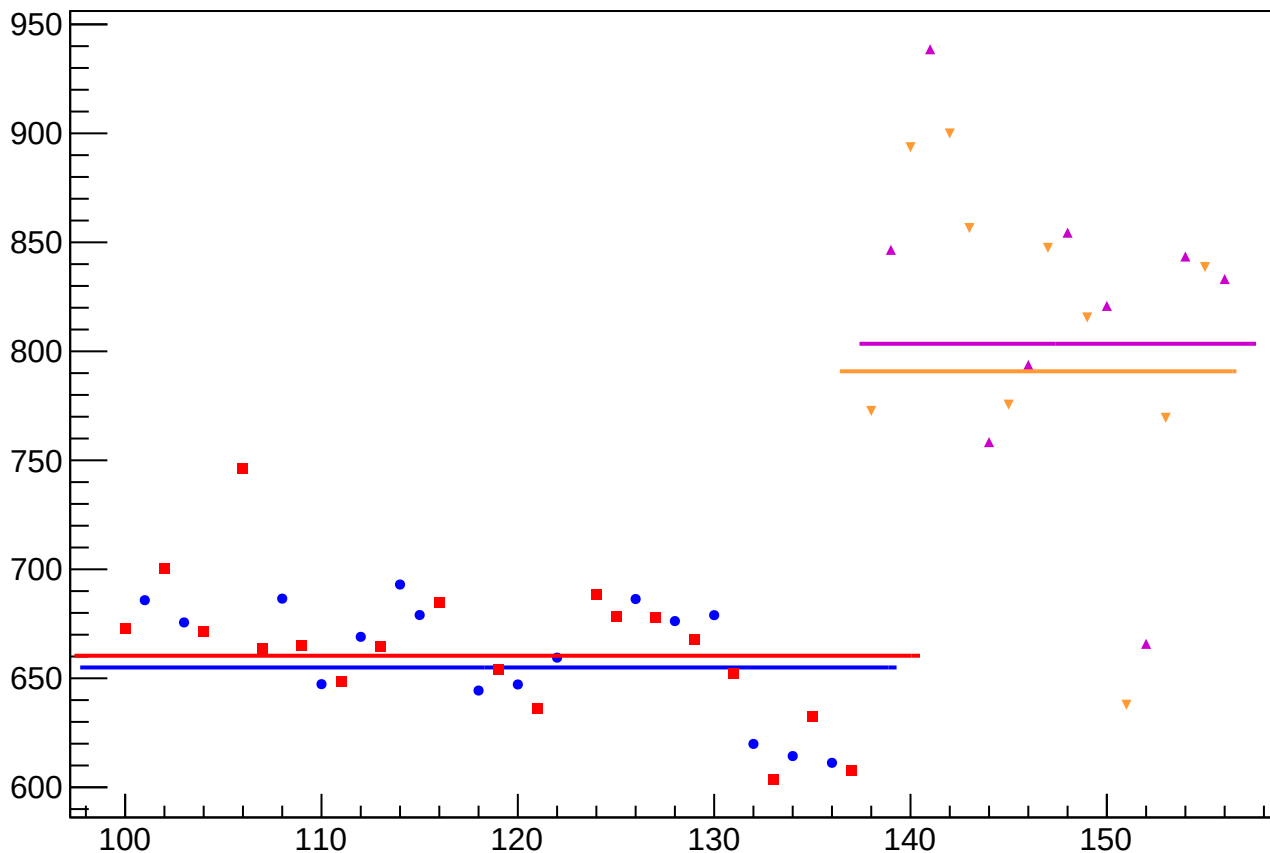
Right: 22.296+/-0.171 χ^2/NDF : 16506.5/34

In: 6.339+/-0.186 χ^2/NDF : 37221.3/24

Out: 3.835+/-0.184 χ^2/NDF : 9785.0/28

All: 5.070+/-0.131 χ^2/NDF : 47097.7/53

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 654.970 $\pm$ 0.172 χ^2 /NDF: 26744.4/15

Left Out: 790.842 $\pm$ 0.201 χ^2 /NDF:158653.7/9

Right Out: 660.355 $\pm$ 0.171 χ^2 /NDF: 30417.5/18

Left In: 803.471 $\pm$ 0.205 χ^2 /NDF:131488.5/8

Left: 797.040 $\pm$ 0.144 χ^2 /NDF: 292074.9/18

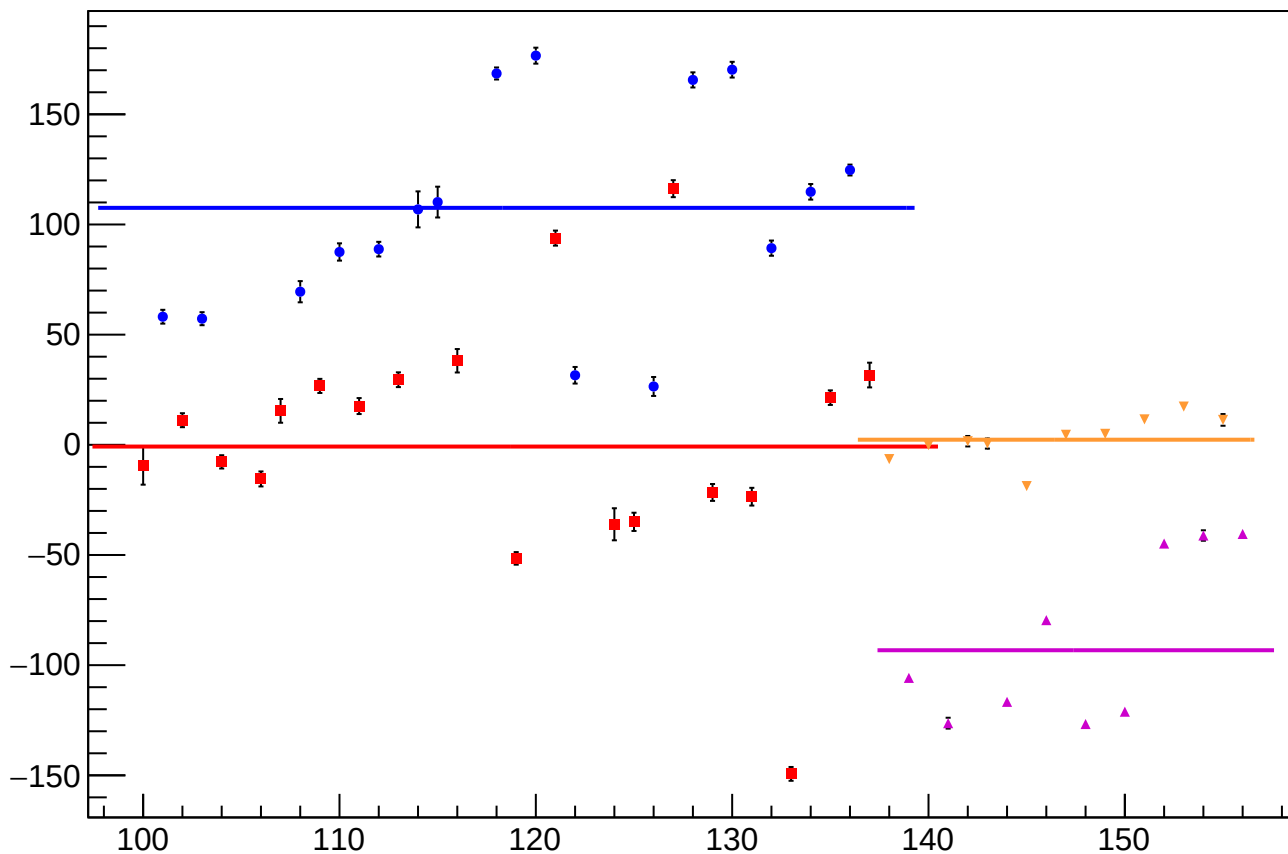
Right: 657.689 $\pm$ 0.121 χ^2 /NDF: 57655.9/34

In: 716.405 $\pm$ 0.132 χ^2 /NDF:465922.9/24

Out: 714.875 $\pm$ 0.130 χ^2 /NDF:433789.3/28

All: 715.630 $\pm$ 0.093 χ^2 /NDF: 899780.5/53

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.548+/-0.885 χ^2/NDF : 2955.8/15

Left Out: 2.321+/-0.659 χ^2/NDF :212.4/9

Right Out: -0.788+/-0.861 χ^2/NDF : 4763.9/18

Left In: -93.229+/-0.651 χ^2/NDF :2635.0/8

Left: -46.014+/-0.463 χ^2/NDF : 13485.0/18

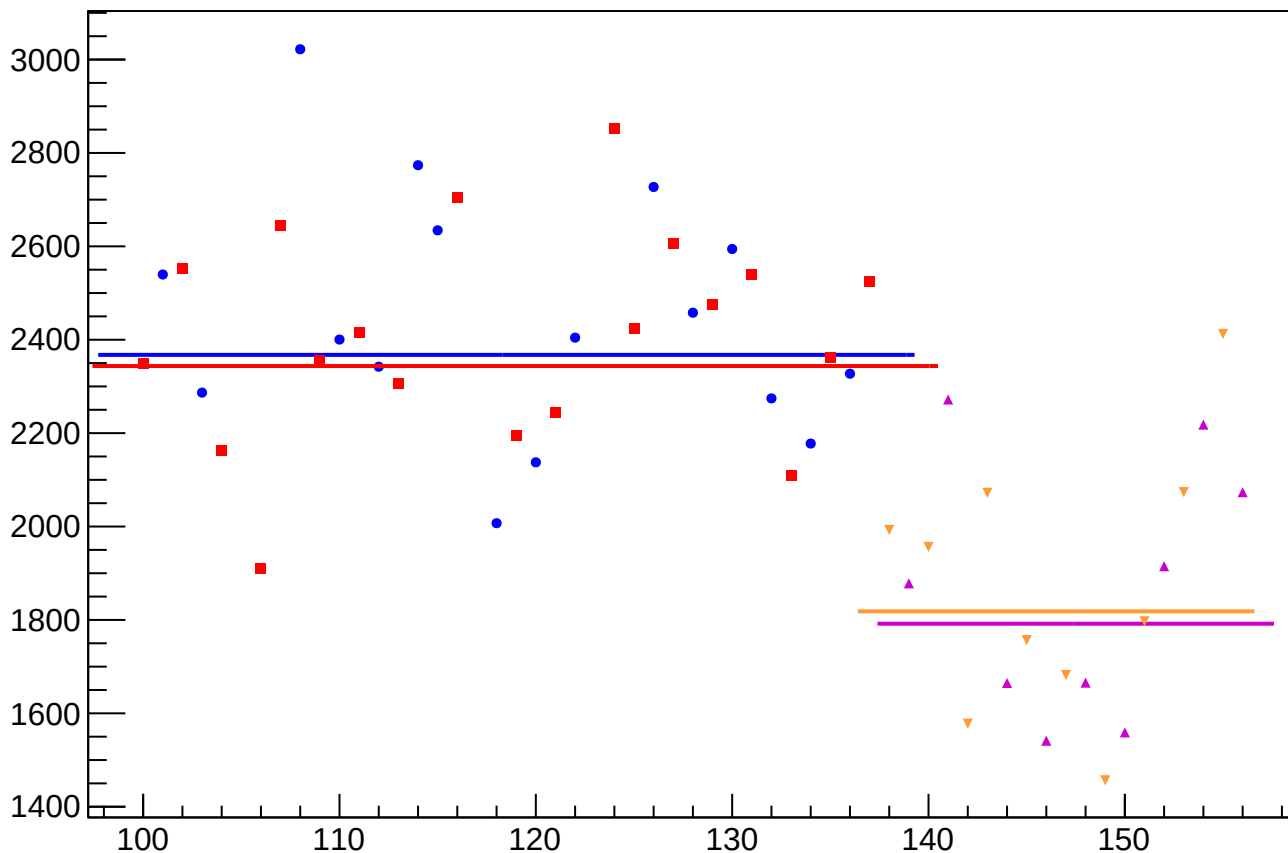
Right: 51.859+/-0.617 χ^2/NDF : 15416.7/34

In: -22.736+/-0.525 χ^2/NDF :38963.2/24

Out: 1.173+/-0.523 χ^2/NDF :4984.6/28

All: -10.750+/-0.370 χ^2/NDF : 44989.1/53

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2367.633 $\pm$ 0.626 χ^2/NDF : 126764.1/15

Left Out: 1818.455 $\pm$ 0.466 χ^2/NDF : 305404.7/9

Right Out: 2343.704 $\pm$ 0.609 χ^2/NDF : 112274.4/18

Left In: 1791.905 $\pm$ 0.460 χ^2/NDF : 288048.5/8

Left: 1805.024 $\pm$ 0.328 χ^2/NDF : 595095.9/18

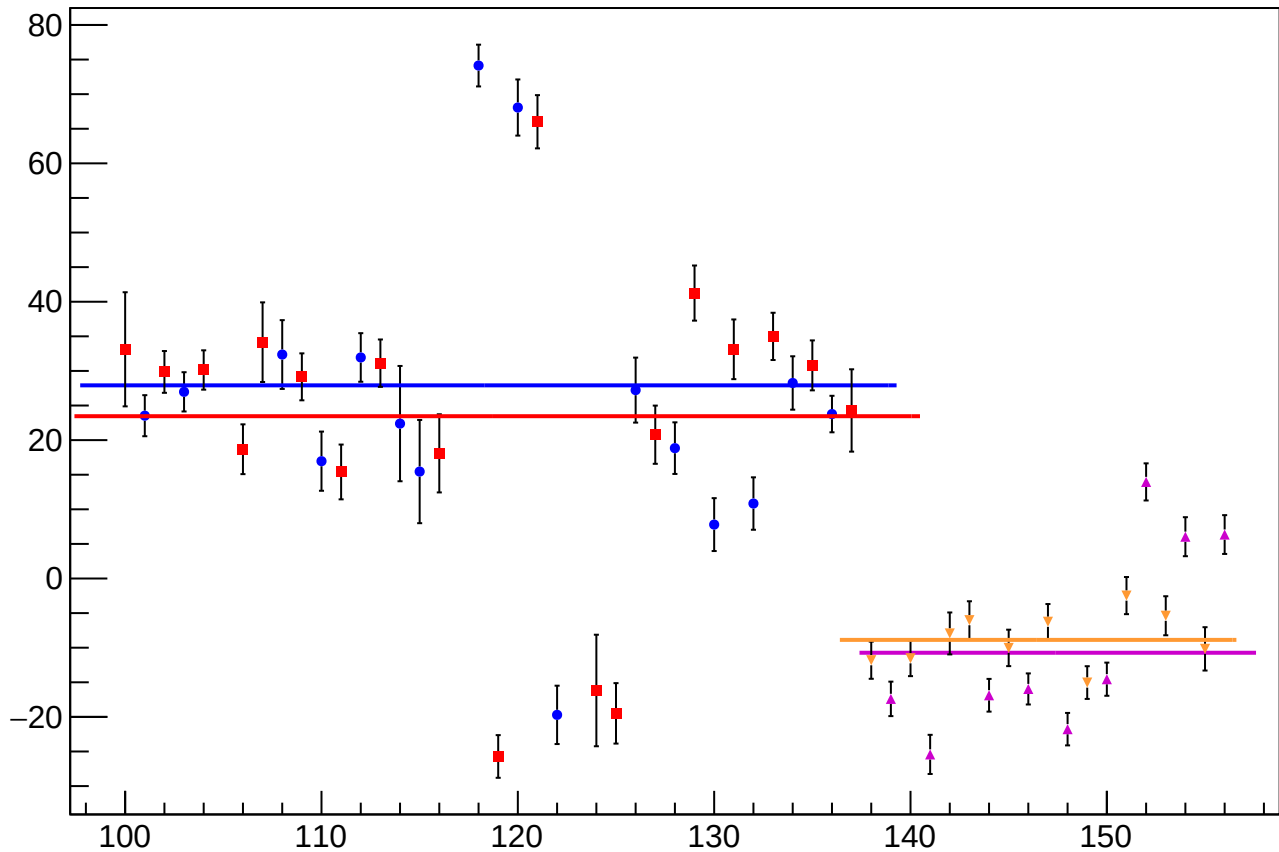
Right: 2355.333 $\pm$ 0.436 χ^2/NDF : 239789.5/34

In: 1994.044 $\pm$ 0.371 χ^2/NDF : 963624.6/24

Out: 2012.507 $\pm$ 0.370 χ^2/NDF : 887201.7/28

All: 2003.300 $\pm$ 0.262 χ^2/NDF : 1852068.2/53

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.916 $\pm$ 0.937 χ^2/NDF : 530.7/15

Left Out: -8.870 $\pm$ 0.853 χ^2/NDF : 18.9/9

Right Out: 23.457 $\pm$ 0.903 χ^2/NDF : 567.9/18

Left In: -10.731 $\pm$ 0.842 χ^2/NDF : 228.3/8

Left: -9.813 $\pm$ 0.599 χ^2/NDF : 249.5/18

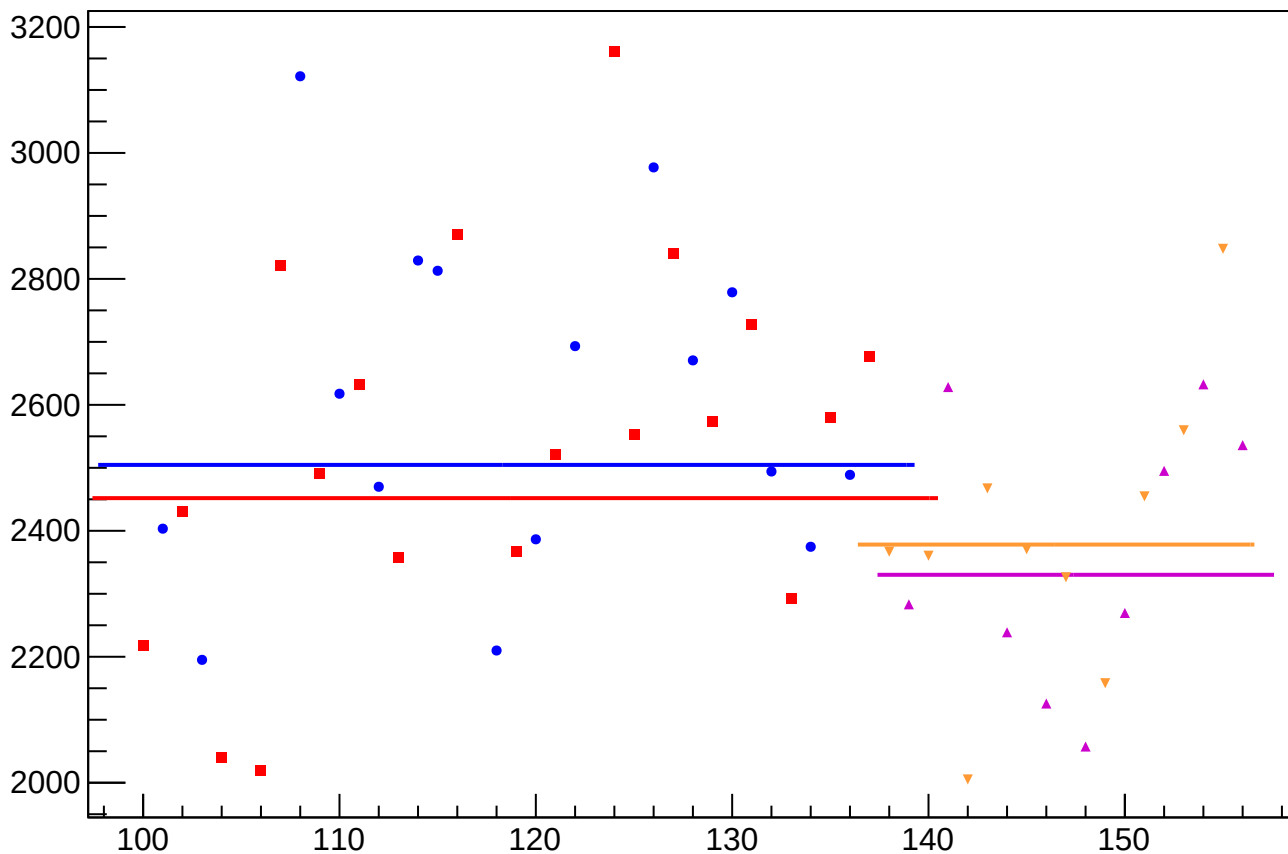
Right: 25.604 $\pm$ 0.650 χ^2/NDF : 1110.3/34

In: 6.537 $\pm$ 0.626 χ^2/NDF : 1700.5/24

Out: 6.387 $\pm$ 0.620 χ^2/NDF : 1264.1/28

All: 6.461 $\pm$ 0.441 χ^2/NDF : 2964.6/53

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2504.654 ± 0.662 $\chi^2/\text{NDF}: 126599.1/15$

Left Out: 2378.168 ± 0.603 $\chi^2/\text{NDF}: 105592.9/9$

Right Out: 2451.880 ± 0.638 $\chi^2/\text{NDF}: 153237.1/18$

Left In: 2330.148 ± 0.595 $\chi^2/\text{NDF}: 112123.4/8$

Left: 2353.832 ± 0.424 $\chi^2/\text{NDF}: 220925.6/18$

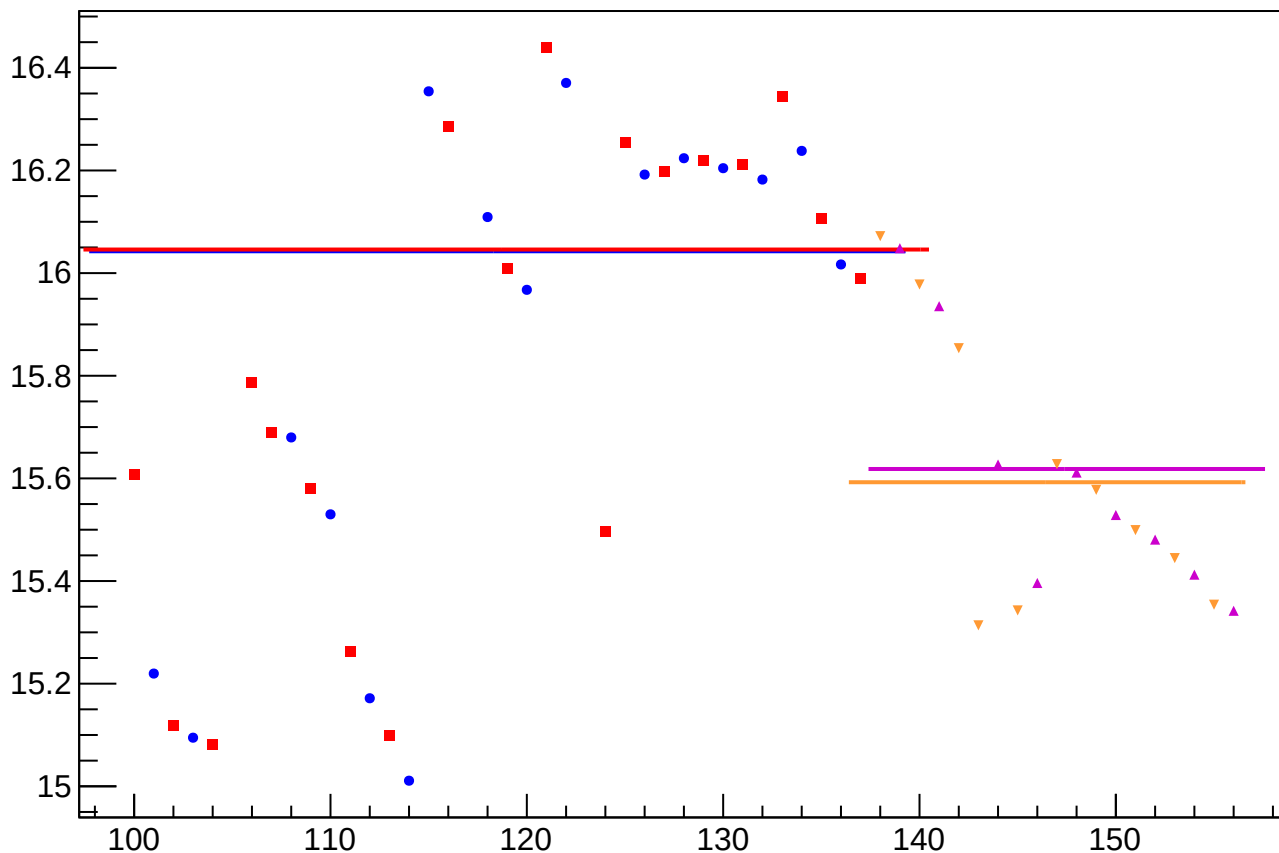
Right: 2477.287 ± 0.460 $\chi^2/\text{NDF}: 283127.8/34$

In: 2408.117 ± 0.443 $\chi^2/\text{NDF}: 277117.3/24$

Out: 2412.958 ± 0.438 $\chi^2/\text{NDF}: 265872.8/28$

All: 2410.561 ± 0.312 $\chi^2/\text{NDF}: 543050.5/53$

yield_sam1_mean vs Slug, Sign Corrected



Right In: 16.043+/-0.000 χ^2/NDF : 2840540588.4/15

Left Out: 15.593+/-0.000 χ^2/NDF : 5096405953.8/9

Right Out: 16.046+/-0.000 χ^2/NDF : 3552158387.5/18

Left In: 15.618+/-0.000 χ^2/NDF : 3344216812.5/8

Left: 15.605+/-0.000 χ^2/NDF : 8461070572.3/18

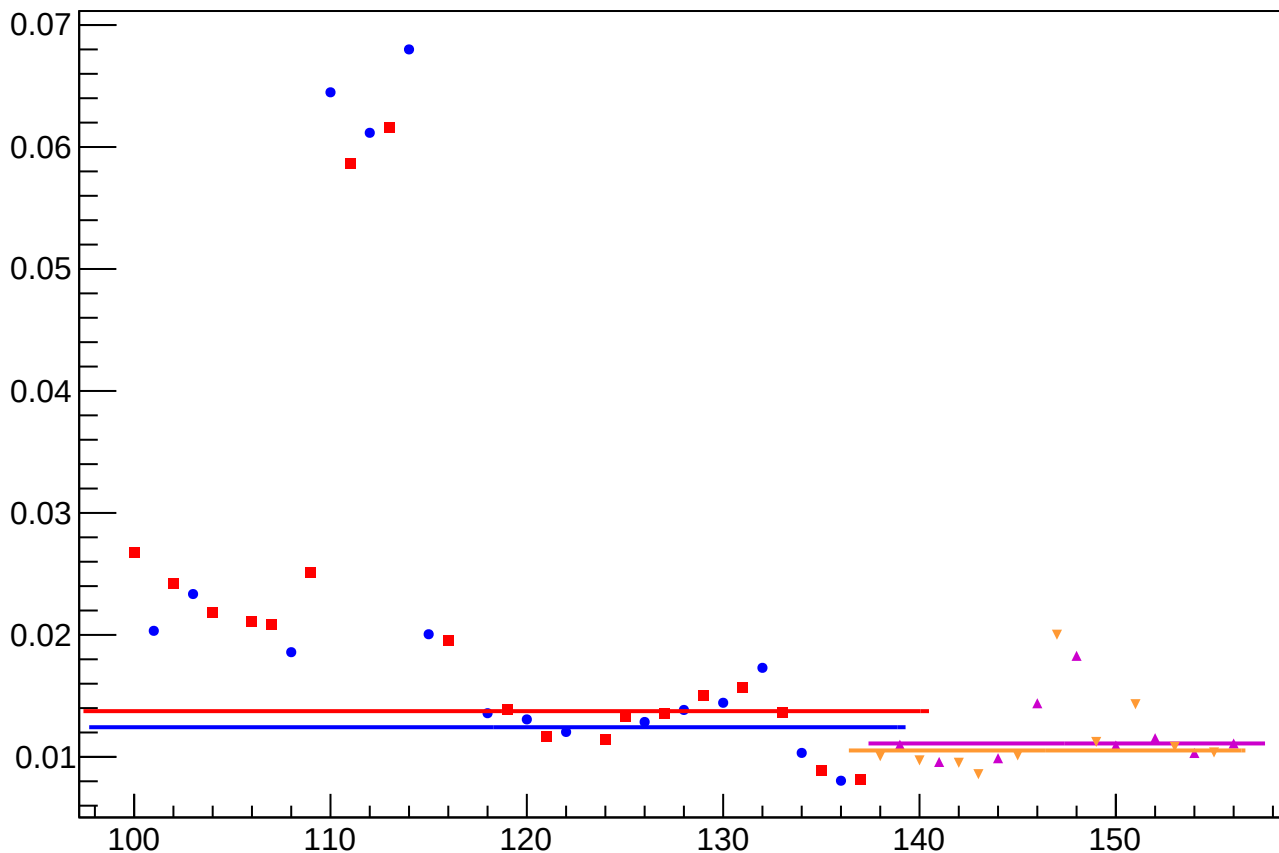
Right: 16.044+/-0.000 χ^2/NDF : 6392885915.7/34

In: 15.779+/-0.000 χ^2/NDF : 10171886485.2/24

Out: 15.737+/-0.000 χ^2/NDF : 12866466589.3/28

All: 15.758+/-0.000 χ^2/NDF : 23121245326.6

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2316842.7/15

Left Out: 0.011+/-0.000 χ^2/NDF :580727.5/9

Right Out: 0.014+/-0.000 χ^2/NDF : 2230614.9/18

Left In: 0.011+/-0.000 χ^2/NDF :408078.3/8

Left: 0.011+/-0.000 χ^2/NDF : 1009030.0/18

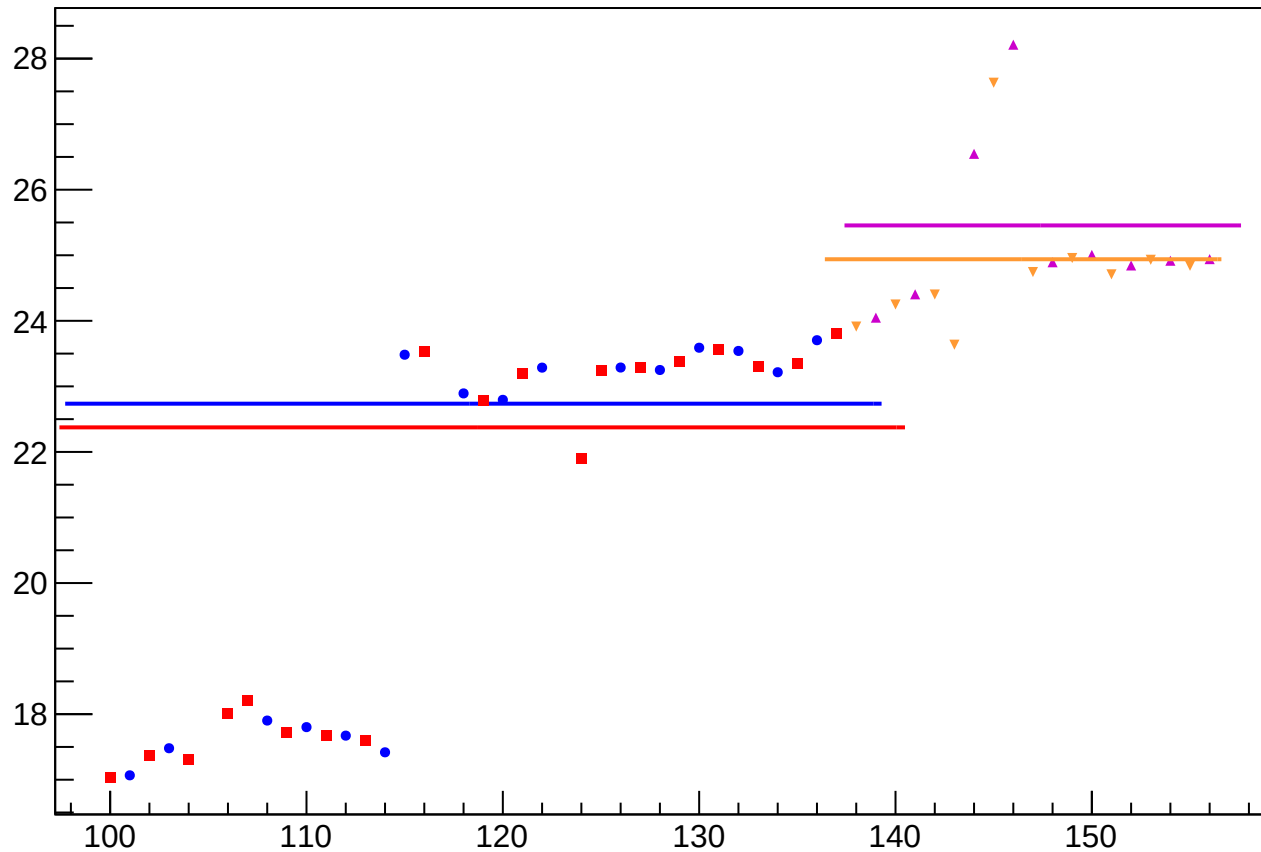
Right: 0.013+/-0.000 χ^2/NDF : 4604105.9/34

In: 0.012+/-0.000 χ^2/NDF :2803467.5/24

Out: 0.012+/-0.000 χ^2/NDF :3237599.1/28

All: 0.012+/-0.000 χ^2/NDF : 6041319.0/53

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.736+/-0.000 χ^2/NDF : 1220713728.0/15

Left Out: 24.939+/-0.000 χ^2/NDF : 763223849.5/9

Right Out: 22.375+/-0.000 χ^2/NDF : 1215661430.7/18

Left In: 25.455+/-0.000 χ^2/NDF : 674202768.7/8

Left: 25.188+/-0.000 χ^2/NDF : 1502670754.2/18

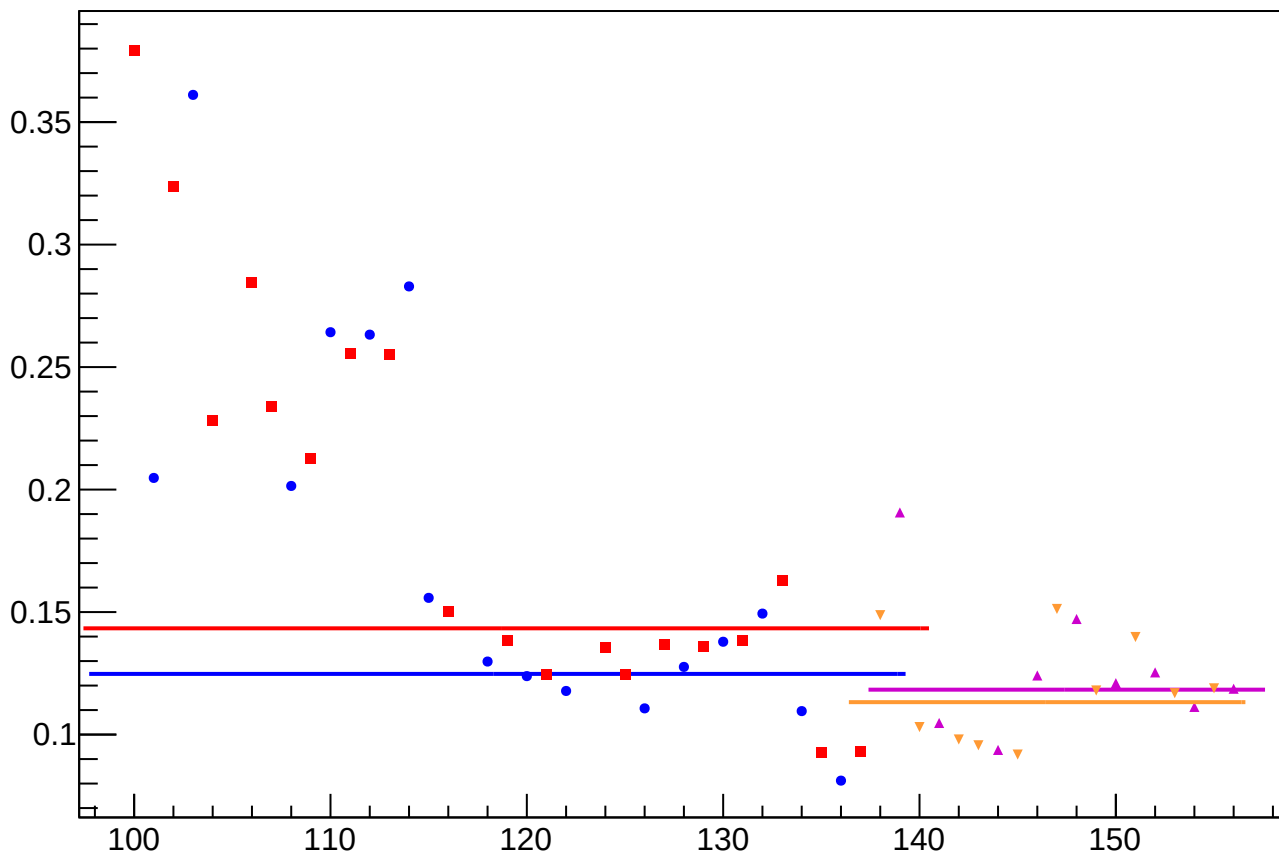
Right: 22.574+/-0.000 χ^2/NDF : 2456494994.8/34

In: 24.311+/-0.000 χ^2/NDF : 3366202073.7/24

Out: 24.030+/-0.000 χ^2/NDF : 3165278522.0/28

All: 24.173+/-0.000 χ^2/NDF : 6563207869.8/5

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 : 382567.9/9

Right Out: 0.143+/-0.000 χ^2/NDF : 1570103.9/18

Left In: 0.118+/-0.000 χ^2/NDF : 441616.9/8

Left: 0.116+/-0.000 χ^2/NDF : 836918.3/18

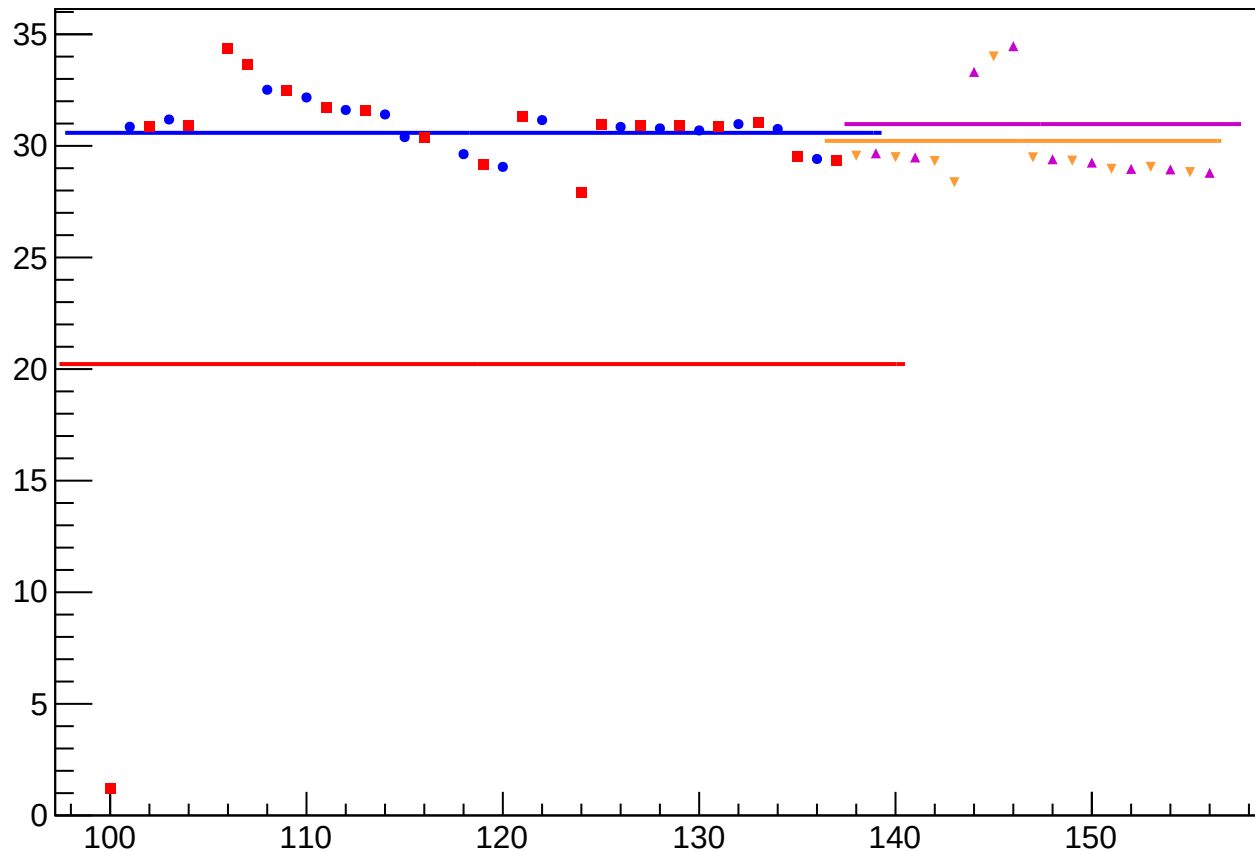
Right: 0.133+/-0.000 χ^2/NDF : 3426627.7/34

In: 0.121+/-0.000 χ^2/NDF : 2207902.7/24

Out: 0.124+/-0.000 χ^2/NDF : 2280315.2/28

All: 0.122+/-0.000 χ^2/NDF : 4494885.2/53

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.585 $\pm$ 0.000 χ^2 /NDF: 652266844.4/15

Left Out: 30.223 $\pm$ 0.000 χ^2 /NDF: 5323534026.5/9

Right Out: 20.224 $\pm$ 0.000 χ^2 /NDF: 221262816636.2/18

Left In: 30.976 $\pm$ 0.000 χ^2 /NDF: 7253679933.8/8

Left: 30.616 $\pm$ 0.000 χ^2 /NDF: 12942941331.6/18

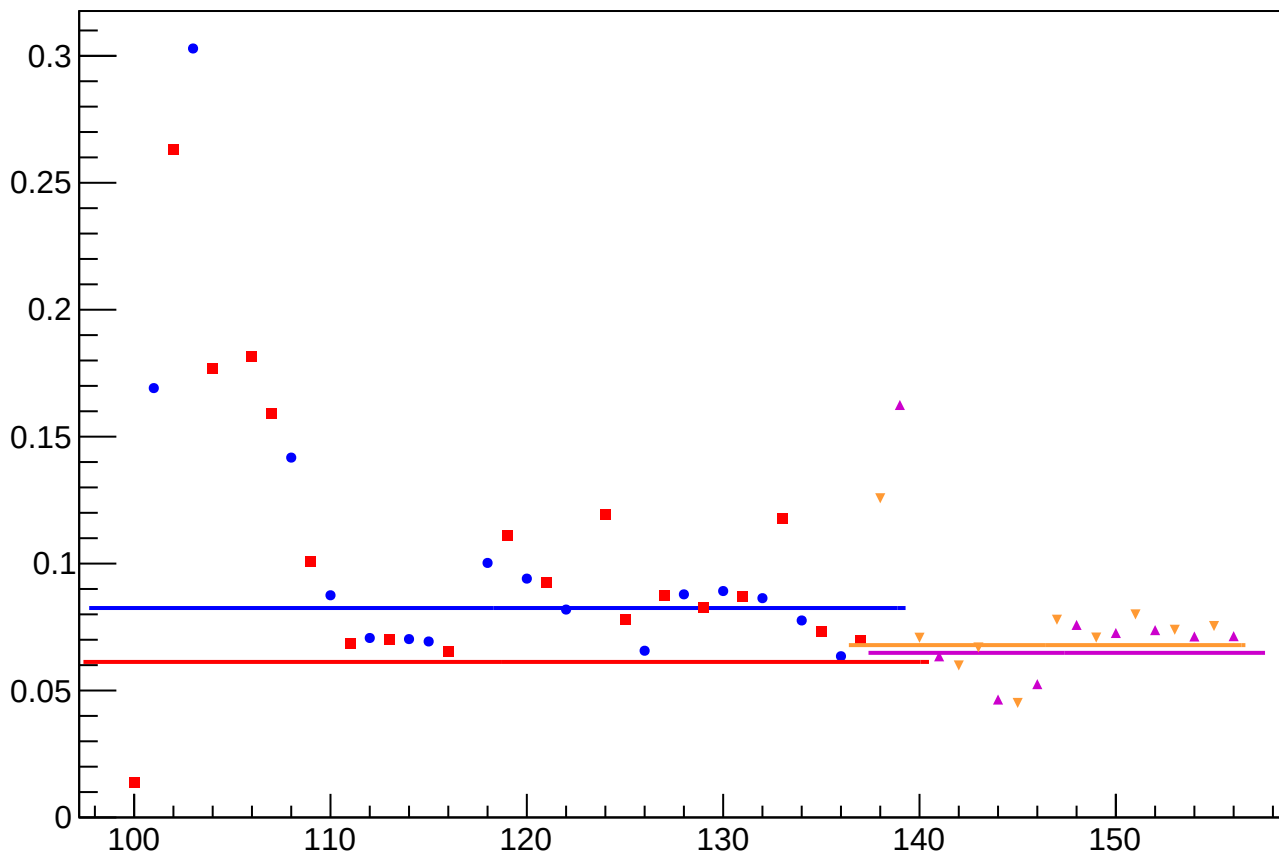
Right: 24.530 $\pm$ 0.000 χ^2 /NDF: 270460315915.7/34

In: 30.833 $\pm$ 0.000 χ^2 /NDF: 7981388710.5/24

Out: 25.542 $\pm$ 0.000 χ^2 /NDF: 284452256081.8/28

All: 28.067 $\pm$ 0.000 χ^2 /NDF: 323478165089.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.082+/-0.000 χ^2/NDF : 1261492.7/15

Left Out: 0.068+/-0.000 χ^2/NDF : 657256.9/9

Right Out: 0.061+/-0.000 χ^2/NDF : 4014305.3/18

Left In: 0.065+/-0.000 χ^2/NDF : 950359.4/8

Left: 0.066+/-0.000 χ^2/NDF : 1619616.0/18

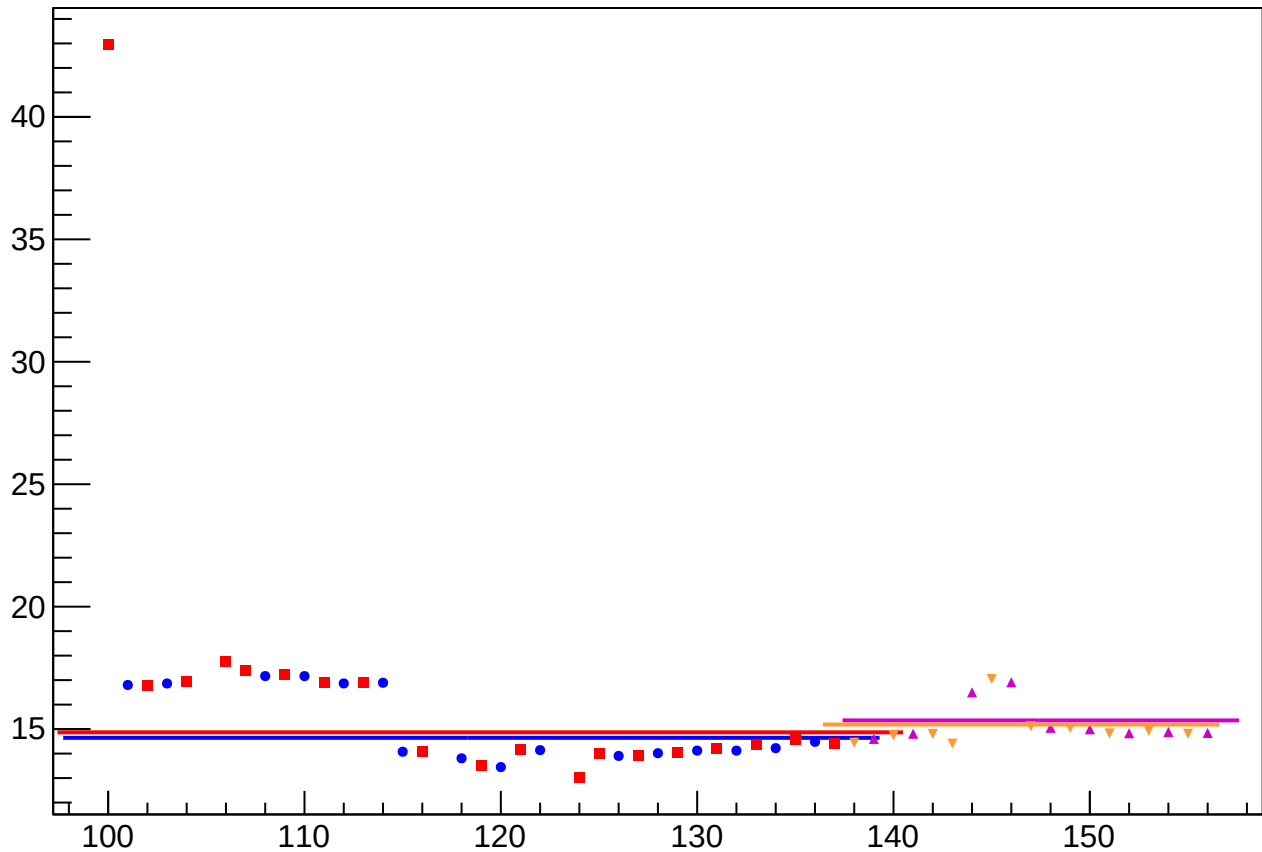
Right: 0.070+/-0.000 χ^2/NDF : 5683622.8/34

In: 0.071+/-0.000 χ^2/NDF : 2518419.1/24

Out: 0.065+/-0.000 χ^2/NDF : 4722362.6/28

All: 0.068+/-0.000 χ^2/NDF : 7334344.7/53

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.644+/-0.000 χ^2/NDF : 1193913109.5/15

Left Out: 15.186+/-0.000 χ^2/NDF : 982709138.3/9

Right Out: 14.868+/-0.000 χ^2/NDF : 1730040006.8/18

Left In: 15.354+/-0.000 χ^2/NDF : 857280147.2/8

Left: 15.270+/-0.000 χ^2/NDF : 1858849744.4/18

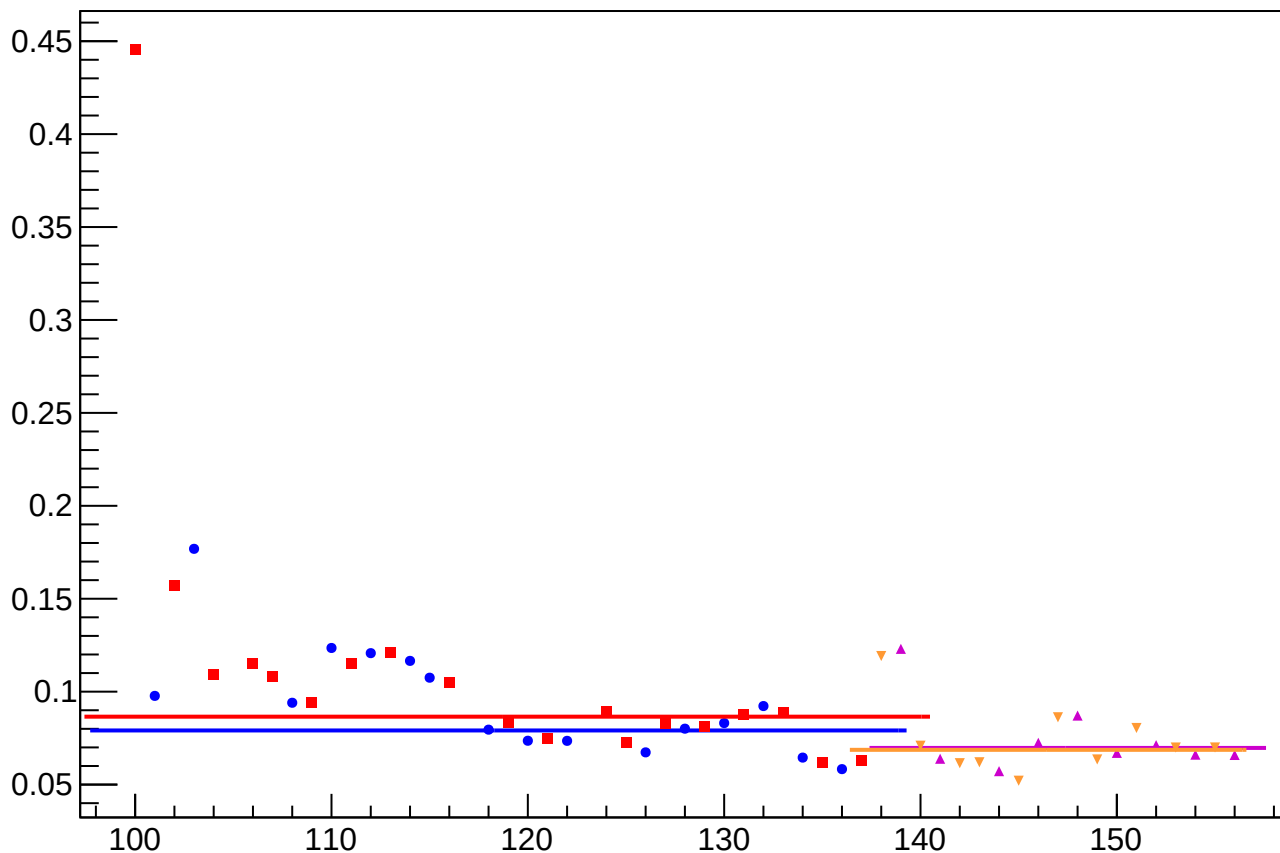
Right: 14.749+/-0.000 χ^2/NDF : 2945878863.1/34

In: 15.061+/-0.000 χ^2/NDF : 2328582452.7/24

Out: 15.065+/-0.000 χ^2/NDF : 2764069017.5/28

All: 15.063+/-0.000 χ^2/NDF : 5092671727.8/5

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.079+/-0.000 χ^2/NDF : 918198.7/15

Left Out: 0.069+/-0.000 χ^2/NDF : 509737.3/9

Right Out: 0.087+/-0.000 χ^2/NDF : 793345.8/18

Left In: 0.070+/-0.000 χ^2/NDF : 458927.9/8

Left: 0.069+/-0.000 χ^2/NDF : 970067.9/18

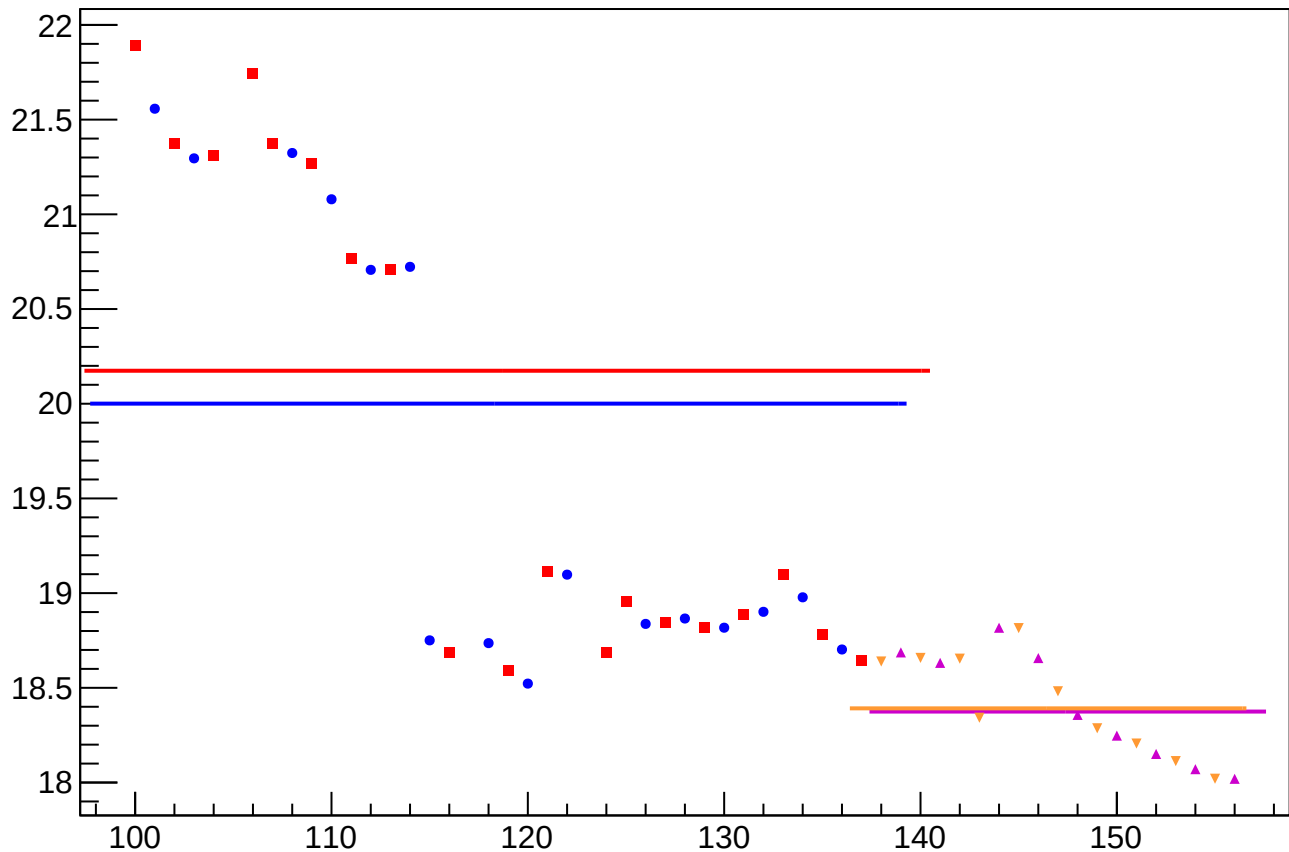
Right: 0.083+/-0.000 χ^2/NDF : 1759748.9/34

In: 0.074+/-0.000 χ^2/NDF : 1474352.3/24

Out: 0.075+/-0.000 χ^2/NDF : 1626540.9/28

All: 0.075+/-0.000 χ^2/NDF : 3108747.7/53

yield_sam5_mean vs Slug, Sign Corrected



Right In: 20.001 $\pm$ 0.000 χ^2 /NDF: 10878846617.7/15

Left Out: 18.392 $\pm$ 0.000 χ^2 /NDF: 519630554.4/9

Right Out: 20.174 $\pm$ 0.000 χ^2 /NDF: 10426322430.8/18

Left In: 18.375 $\pm$ 0.000 χ^2 /NDF: 602668427.5/8

Left: 18.383 $\pm$ 0.000 χ^2 /NDF: 1123309412.7/18

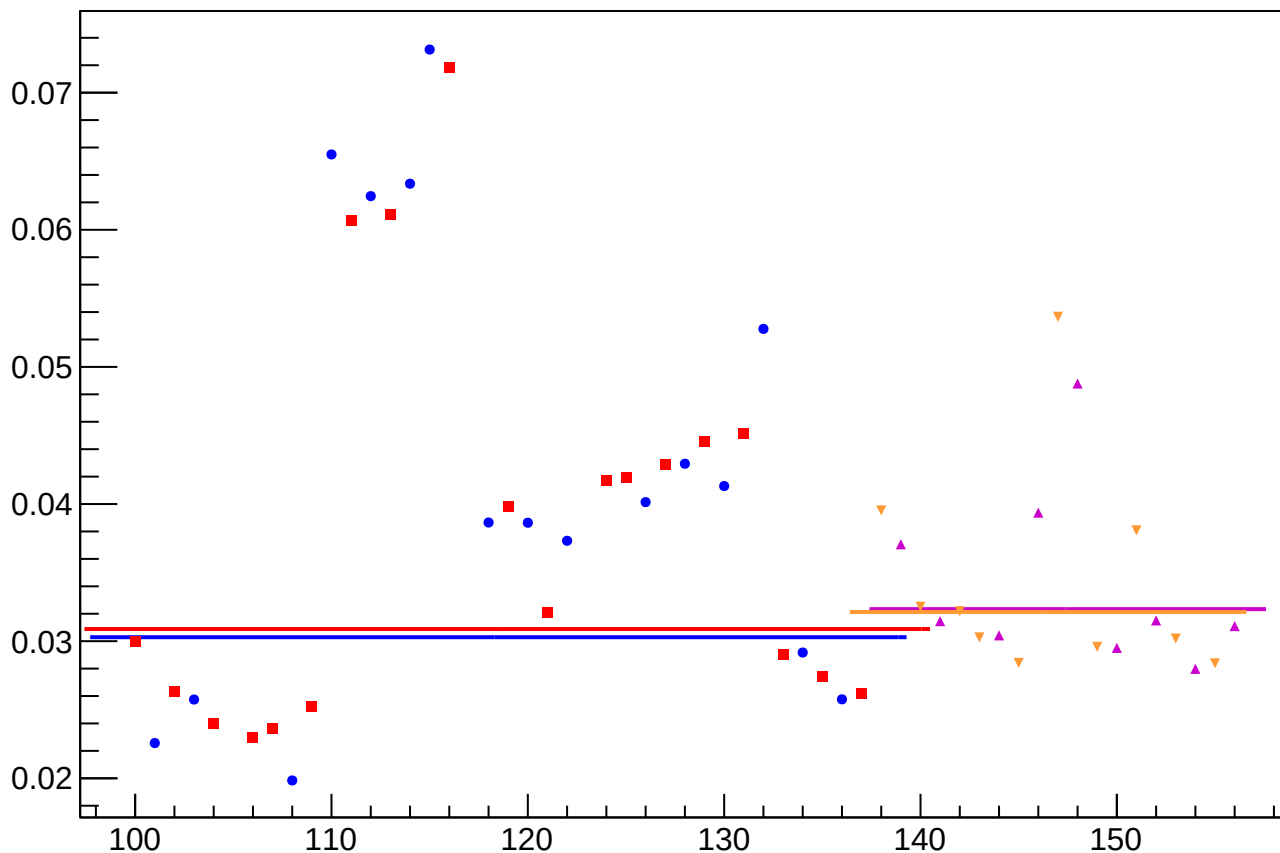
Right: 20.087 $\pm$ 0.000 χ^2 /NDF: 21403297693.7/34

In: 19.156 $\pm$ 0.000 χ^2 /NDF: 20403681325.4/24

Out: 19.248 $\pm$ 0.000 χ^2 /NDF: 21710740593.6/28

All: 19.202 $\pm$ 0.000 χ^2 /NDF: 42171378514.4

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2/NDF : 1447374.9/15

Left Out: 0.032 $\pm$ 0.000 χ^2/NDF : 426627.2/9

Right Out: 0.031 $\pm$ 0.000 χ^2/NDF : 1204729.6/18

Left In: 0.032 $\pm$ 0.000 χ^2/NDF : 328039.2/8

Left: 0.032 $\pm$ 0.000 χ^2/NDF : 754963.0/18

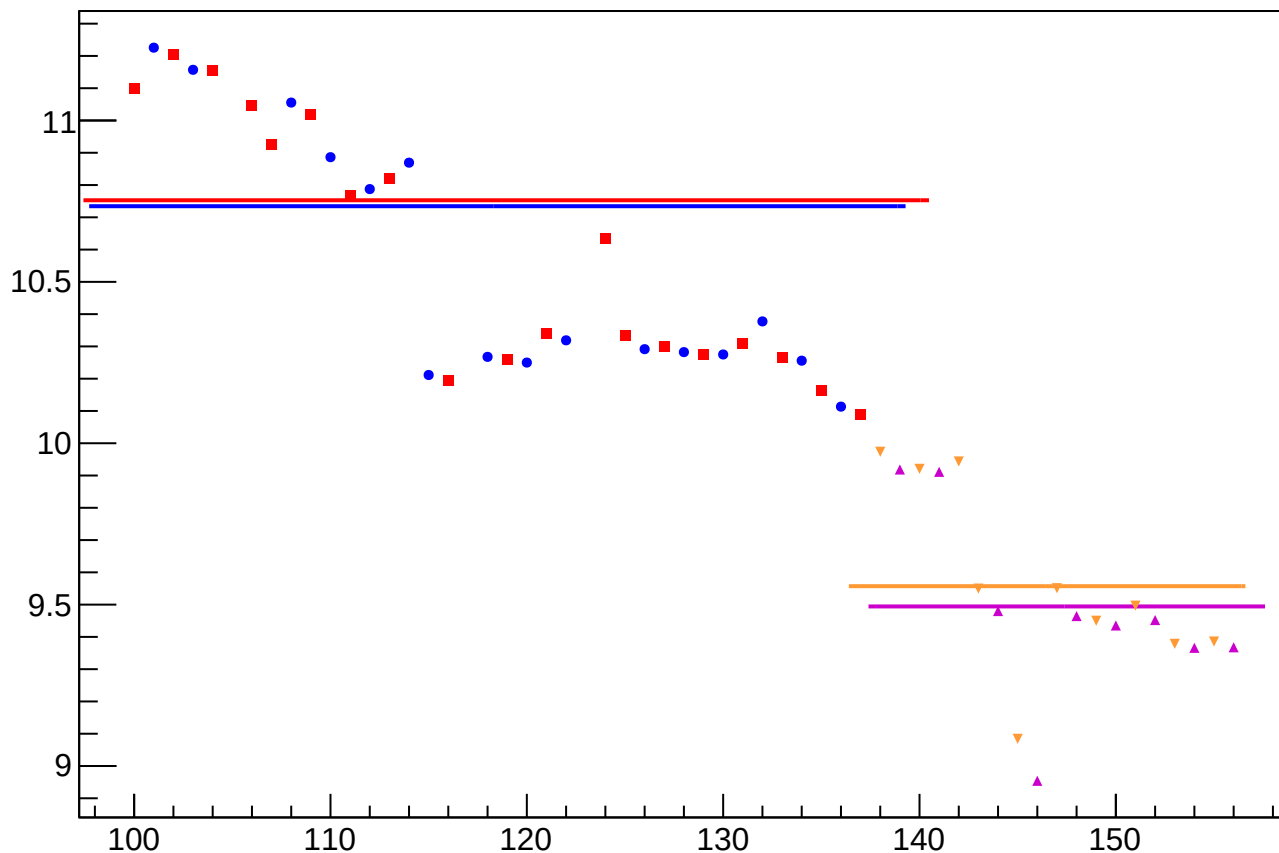
Right: 0.031 $\pm$ 0.000 χ^2/NDF : 2654419.8/34

In: 0.031 $\pm$ 0.000 χ^2/NDF : 1803684.2/24

Out: 0.032 $\pm$ 0.000 χ^2/NDF : 1641854.4/28

All: 0.031 $\pm$ 0.000 χ^2/NDF : 3445979.6/53

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.734+/-0.000 χ^2/NDF : 5879444478.4/15

Left Out: 9.557+/-0.000 χ^2/NDF : 1328477791.5/9

Right Out: 10.753+/-0.000 χ^2/NDF : 4344265704.2/18

Left In: 9.494+/-0.000 χ^2/NDF : 1068364183.2/8

Left: 9.527+/-0.000 χ^2/NDF : 2431470164.3/18

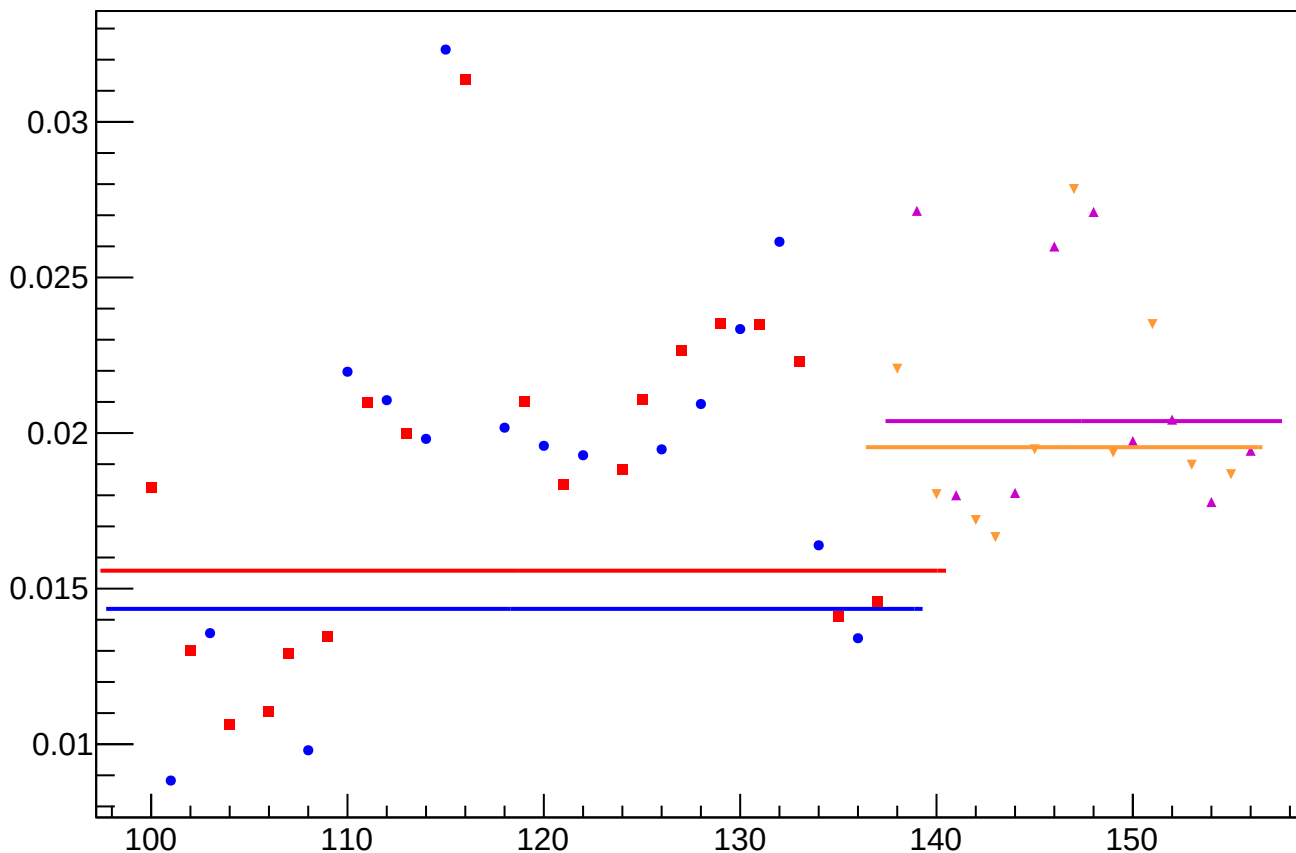
Right: 10.743+/-0.000 χ^2/NDF : 10228218714.9/34

In: 10.263+/-0.000 χ^2/NDF : 23087515816.0/24

Out: 10.252+/-0.000 χ^2/NDF : 20935530367.7/28

All: 10.258+/-0.000 χ^2/NDF : 44025534632.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1481790.8/15

Left Out: 0.020+/-0.000 χ^2/NDF : 277533.8/9

Right Out: 0.016+/-0.000 χ^2/NDF : 1071979.1/18

Left In: 0.020+/-0.000 χ^2/NDF : 369765.7/8

Left: 0.020+/-0.000 χ^2/NDF : 659691.9/18

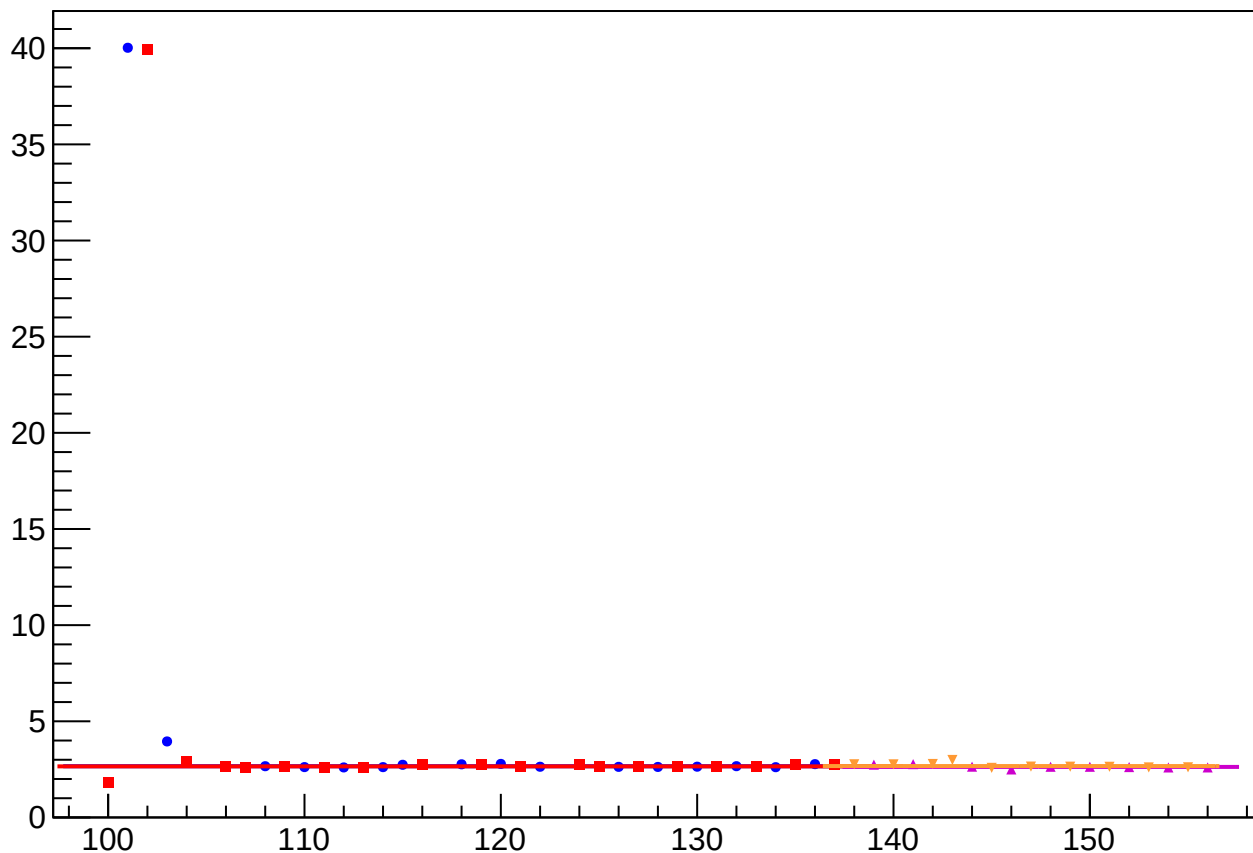
Right: 0.015+/-0.000 χ^2/NDF : 2593711.2/34

In: 0.017+/-0.000 χ^2/NDF : 2616036.4/24

Out: 0.017+/-0.000 χ^2/NDF : 1685759.2/28

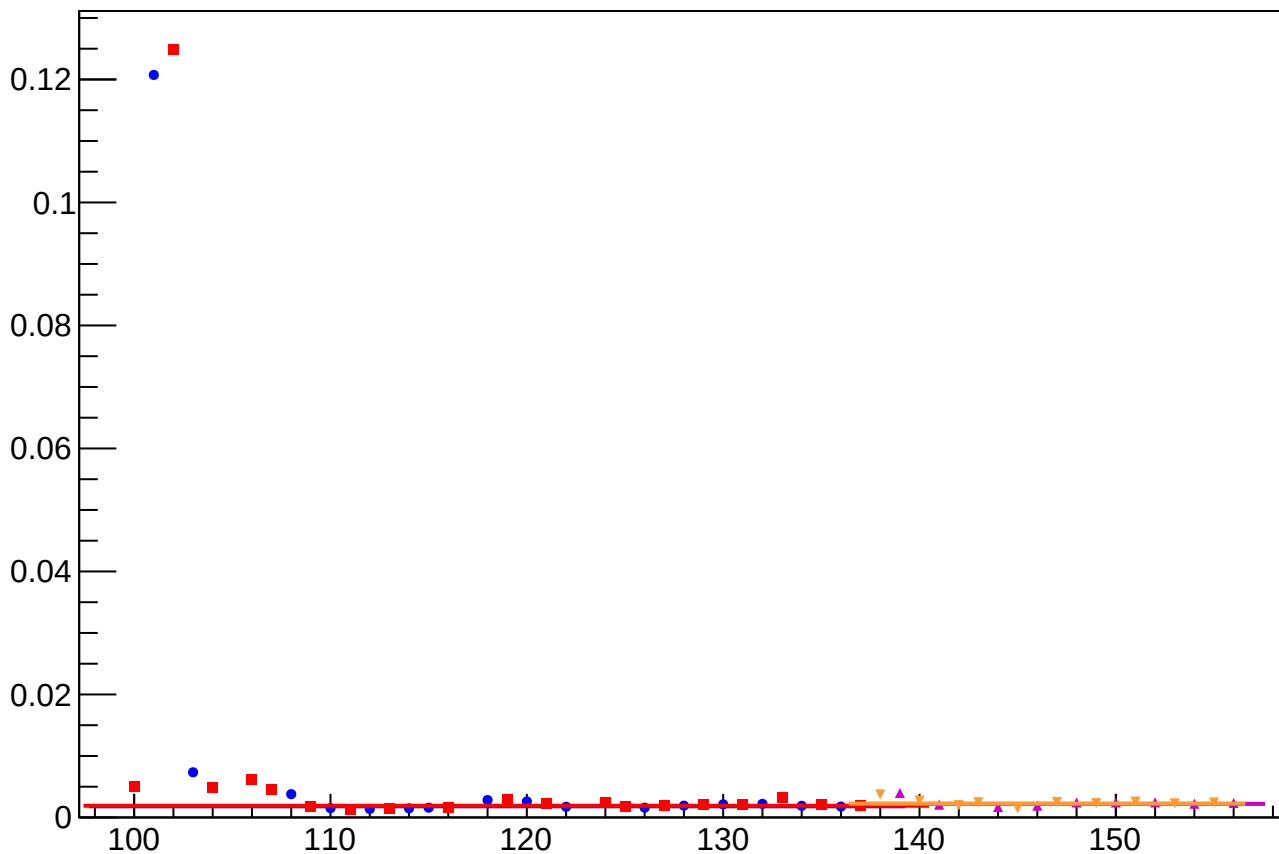
All: 0.017+/-0.000 χ^2/NDF : 4317402.2/53

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.664+/-0.000	χ^2/NDF : 67839888284.3/15	Left: 2.649+/-0.000	χ^2/NDF : 25324208678.4/18
Left Out: 2.672+/-0.000	χ^2/NDF : 16488300356.1/9	Right: 2.660+/-0.000	χ^2/NDF : 132934575870.3/34
Right Out: 2.656+/-0.000	χ^2/NDF : 65056887880.1/18	In: 2.647+/-0.000	χ^2/NDF : 76315207511.0/24
Left In: 2.628+/-0.000	χ^2/NDF : 7597936179.9/8	Out: 2.664+/-0.000	χ^2/NDF : 81710884631.4/28
		All: 2.655+/-0.000	χ^2/NDF : 158411244113.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1822680.9/15

Left Out: 0.002+/-0.000 χ^2/NDF : 656811.6/9

Right Out: 0.002+/-0.000 χ^2/NDF : 2525514.7/18

Left In: 0.002+/-0.000 χ^2/NDF : 525595.0/8

Left: 0.002+/-0.000 χ^2/NDF : 1185253.1/18

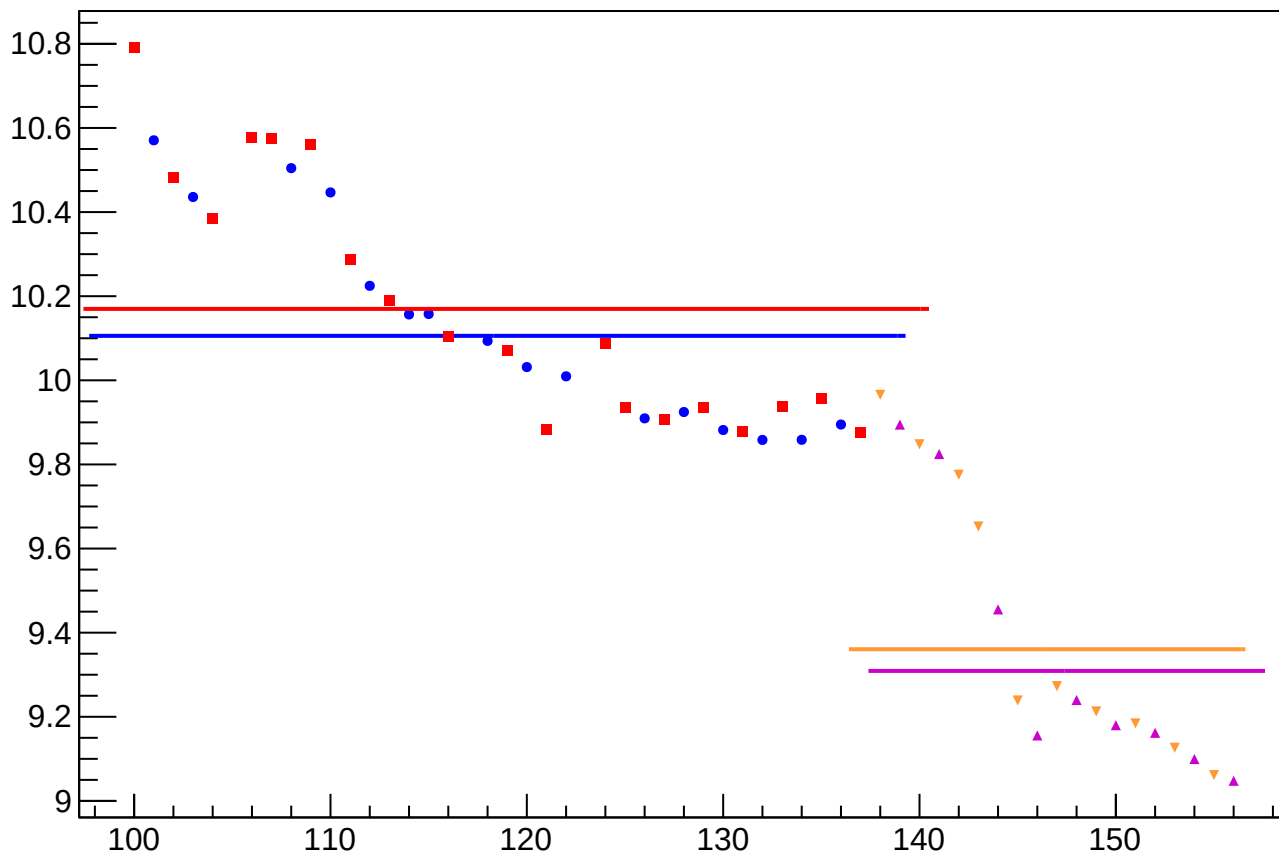
Right: 0.002+/-0.000 χ^2/NDF : 4358433.6/34

In: 0.002+/-0.000 χ^2/NDF : 2557232.7/24

Out: 0.002+/-0.000 χ^2/NDF : 3346099.8/28

All: 0.002+/-0.000 χ^2/NDF : 5914433.4/53

yield_sam8_mean vs Slug, Sign Corrected



Right In: 10.106+/-0.000 χ^2/NDF : 9126550621.3/15

Left Out: 9.361+/-0.000 χ^2/NDF : 11397414643.7/9

Right Out: 10.170+/-0.000 χ^2/NDF : 9135610954.1/18

Left In: 9.309+/-0.000 χ^2/NDF : 10759875323.6/8

Left: 9.335+/-0.000 χ^2/NDF : 22358683738.1/18

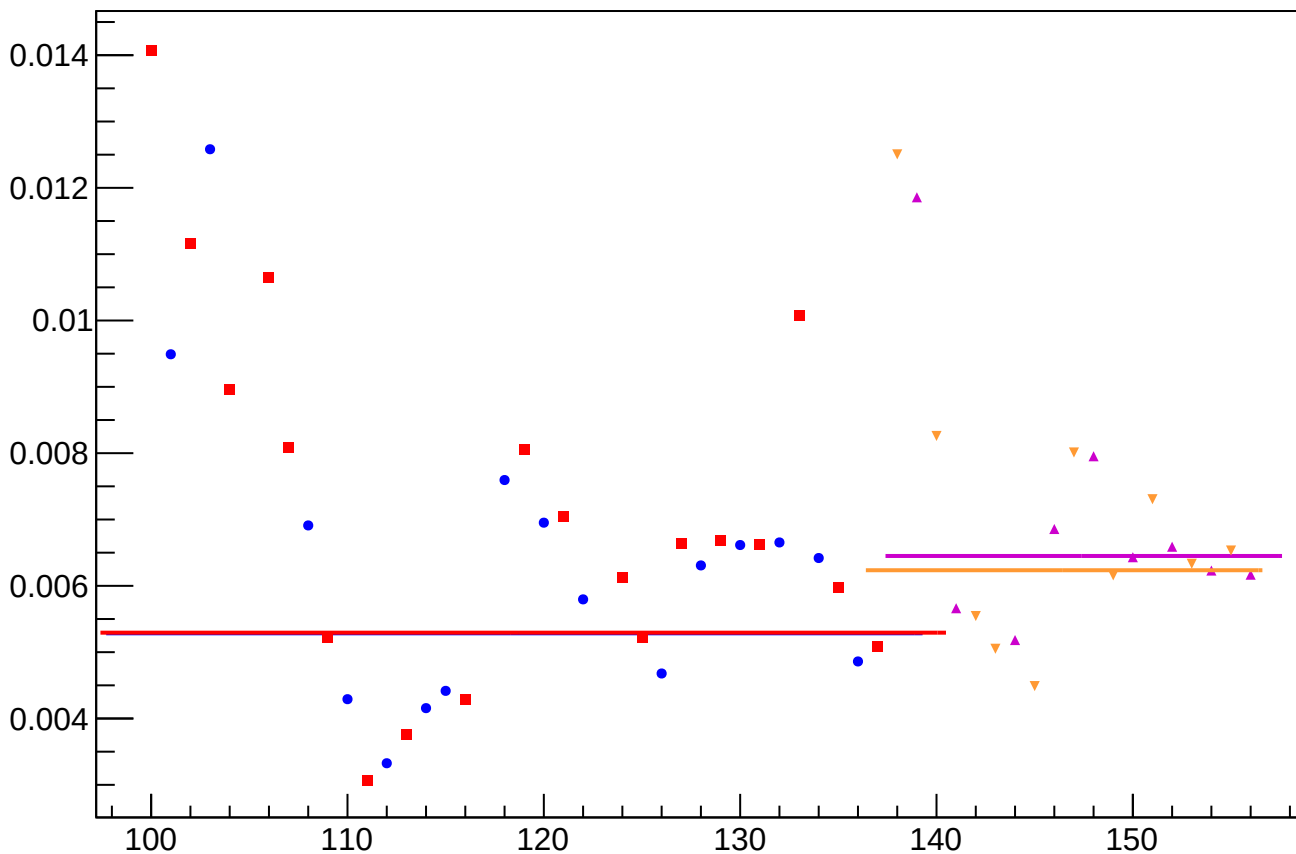
Right: 10.138+/-0.000 χ^2/NDF : 18662438112.6/34

In: 9.758+/-0.000 χ^2/NDF : 73407967621.1/24

Out: 9.814+/-0.000 χ^2/NDF : 77165660823.9/28

All: 9.787+/-0.000 χ^2/NDF : 151115090200.2

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1274133.0/15

Left Out: 0.006+/-0.000 χ^2/NDF : 783860.2/9

Right Out: 0.005+/-0.000 χ^2/NDF : 1792250.8/18

Left In: 0.006+/-0.000 χ^2/NDF : 492309.7/8

Left: 0.006+/-0.000 χ^2/NDF : 1283200.6/18

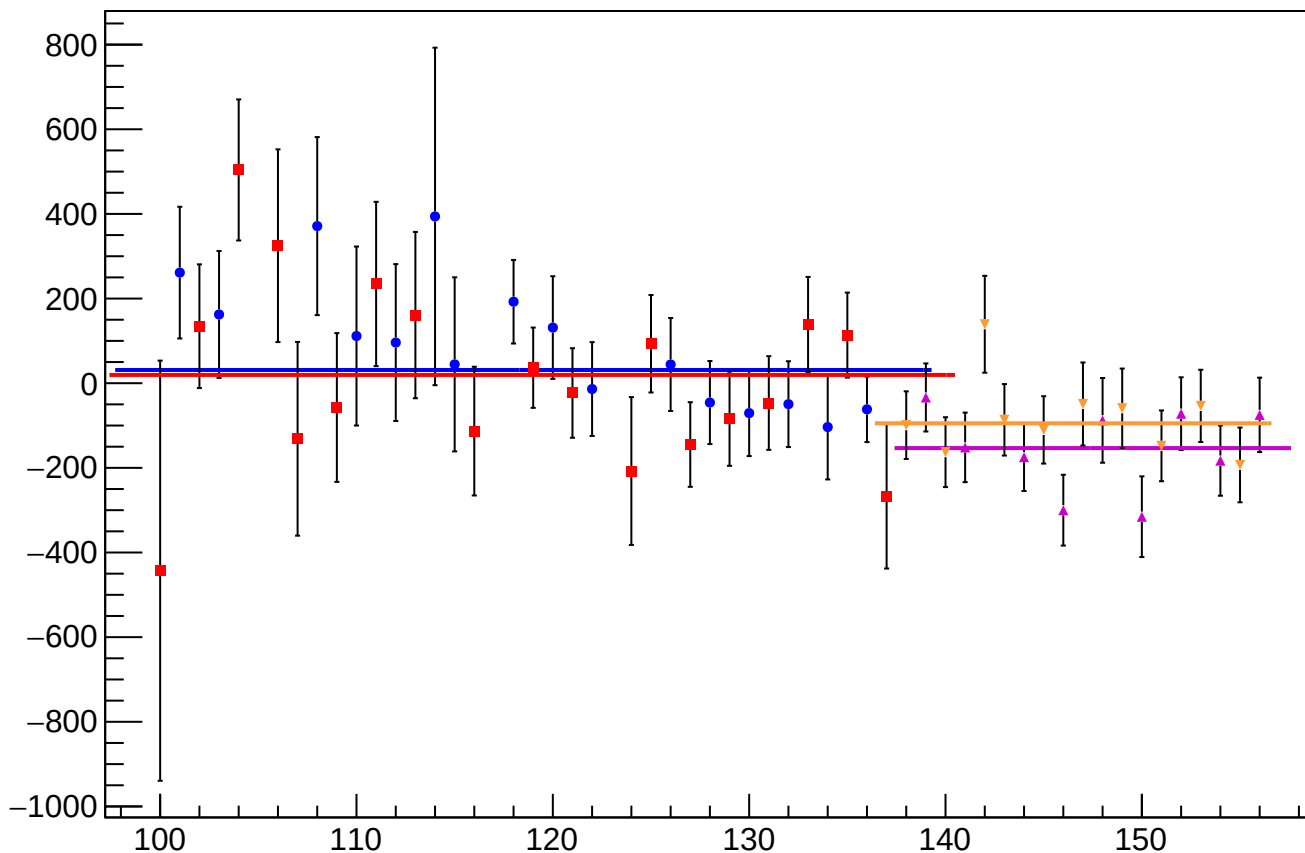
Right: 0.005+/-0.000 χ^2/NDF : 3066401.4/34

In: 0.006+/-0.000 χ^2/NDF : 1995681.4/24

Out: 0.006+/-0.000 χ^2/NDF : 2729325.2/28

All: 0.006+/-0.000 χ^2/NDF : 4727530.8/53

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.249 $\pm$ 30.786 χ^2 /NDF: 15.1/15

Left Out: -94.651 $\pm$ 27.686 χ^2 /NDF:7.2/9

Right Out: 19.573 $\pm$ 31.059 χ^2 /NDF: 25.9/18

Left In: -153.265 $\pm$ 28.619 χ^2 /NDF:10.5/8

Left: -122.987 $\pm$ 19.899 χ^2 /NDF: 19.8/18

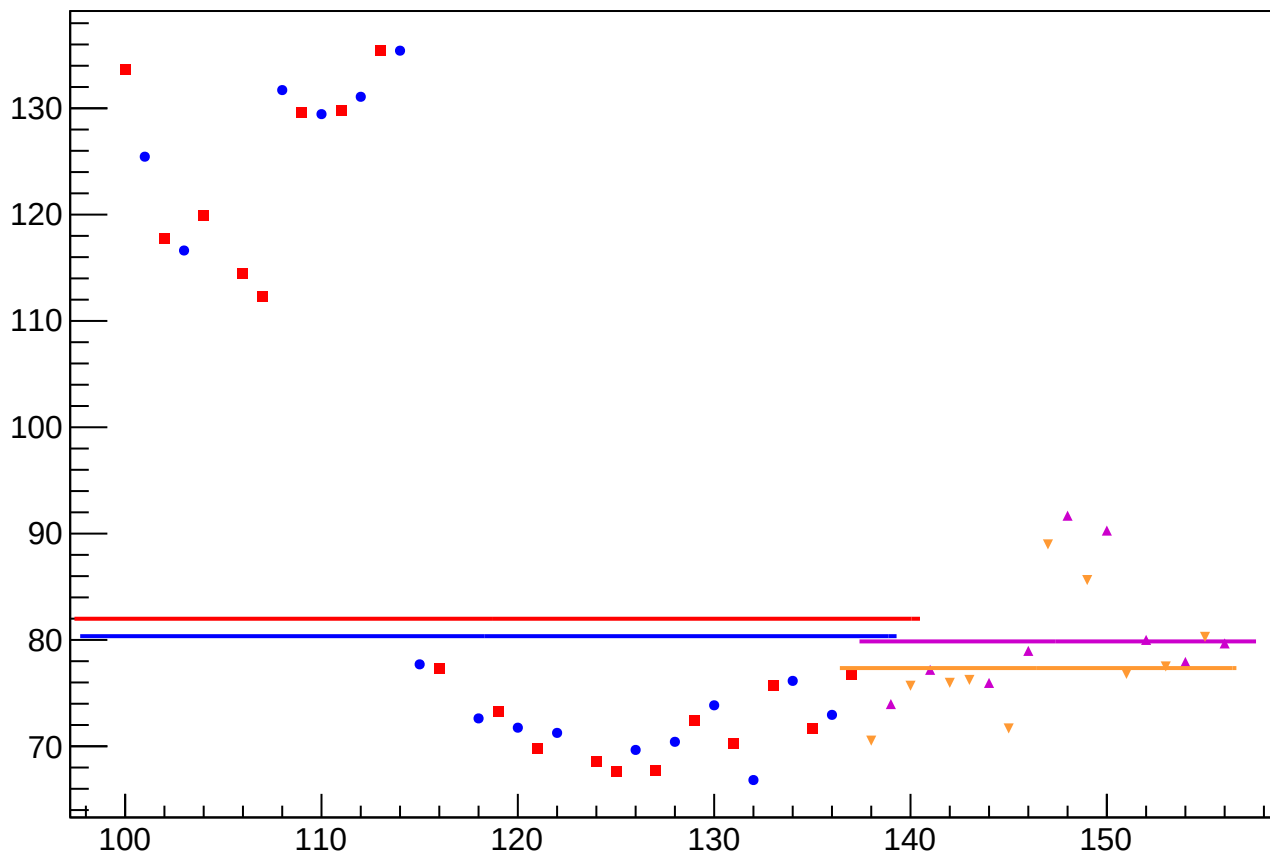
Right: 25.463 $\pm$ 21.865 χ^2 /NDF: 41.1/34

In: -67.730 $\pm$ 20.961 χ^2 /NDF:44.8/24

Out: -44.075 $\pm$ 20.667 χ^2 /NDF:40.6/28

All: -55.736 $\pm$ 14.717 χ^2 /NDF: 86.1/53

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.5/15

Left Out: 77.353 $\pm$ 0.020 χ^2 /NDF: 72291.8/9

Right Out: 81.993 $\pm$ 0.022 χ^2 /NDF: 932337.7/18

Left In: 79.861 $\pm$ 0.020 χ^2 /NDF: 70722.1/8

Left: 78.566 $\pm$ 0.014 χ^2 /NDF: 150947.5/18

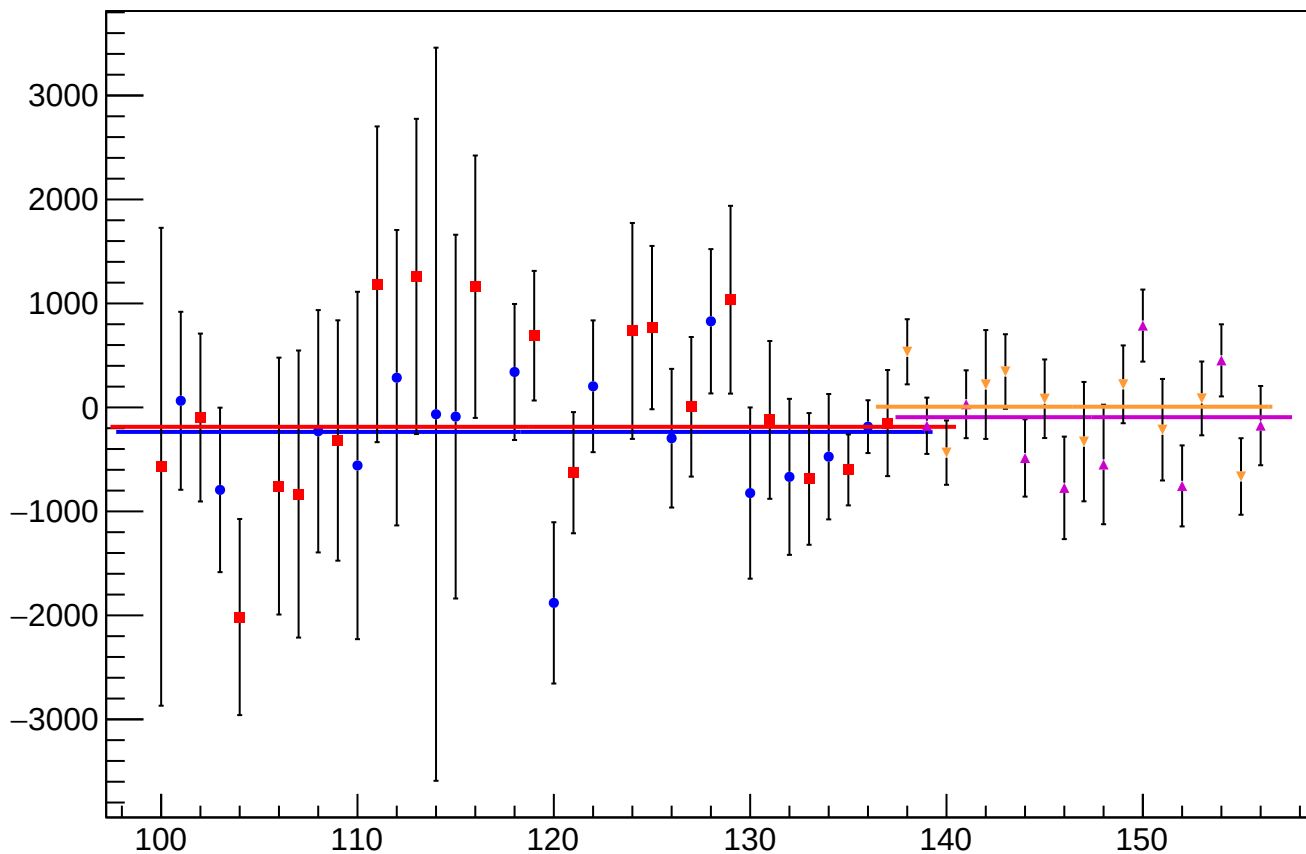
Right: 81.166 $\pm$ 0.015 χ^2 /NDF: 1775186.5/34

In: 80.090 $\pm$ 0.015 χ^2 /NDF: 911036.5/24

Out: 79.408 $\pm$ 0.015 χ^2 /NDF: 1029498.6/28

All: 79.744 $\pm$ 0.010 χ^2 /NDF: 1941608.7/53

asym_sam1_reg_correction_mean vs Slug, Sign Corrected



Right In: -235.521 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 6.721 ± 120.600 χ^2/NDF : 10.2/9

Right Out: -186.618 ± 170.394 χ^2/NDF : 16.0/18

Left In: -93.913 ± 121.691 χ^2/NDF : 15.7/8

Left: -43.143 ± 85.660 χ^2/NDF : 26.3/18

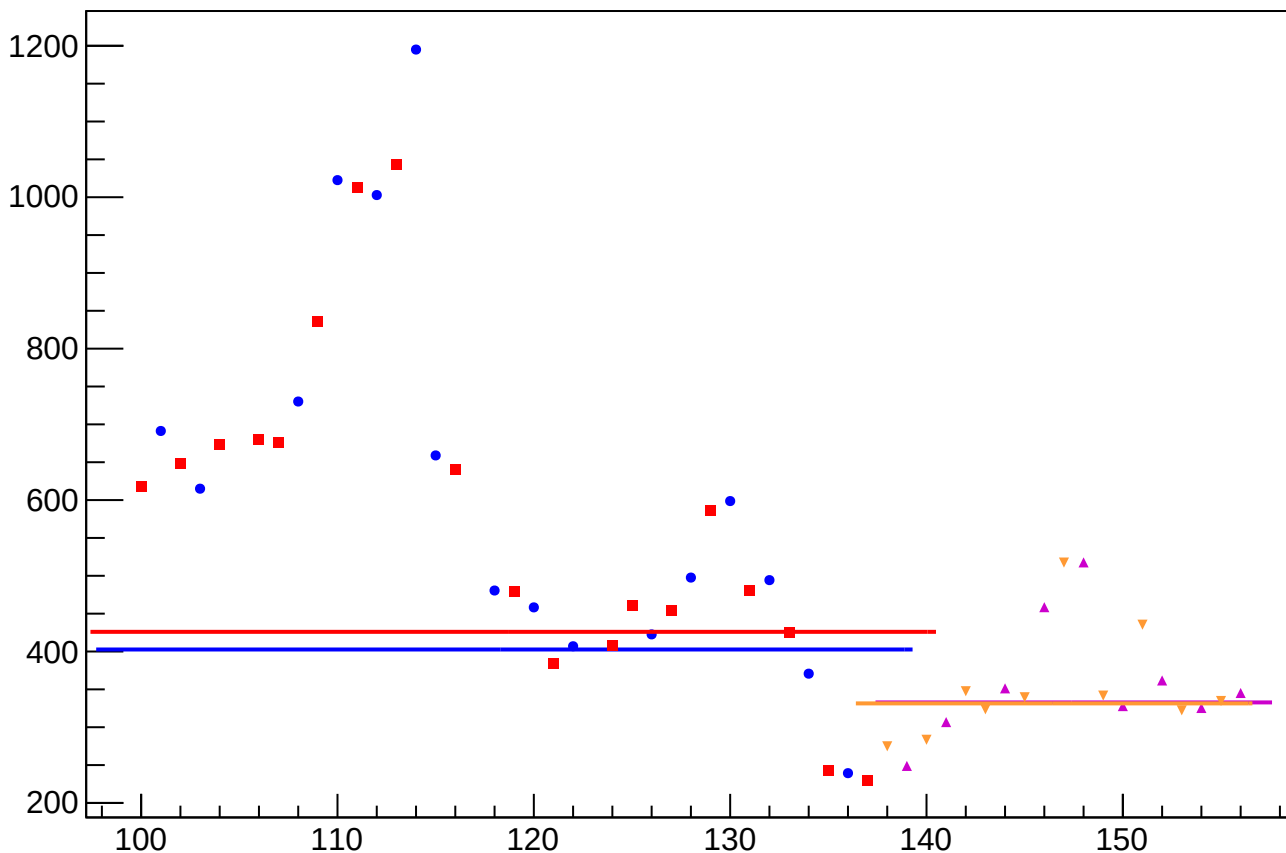
Right: -212.039 ± 118.073 χ^2/NDF : 25.9/34

In: -144.289 ± 97.676 χ^2/NDF : 26.2/24

Out: -57.806 ± 98.439 χ^2/NDF : 27.0/28

All: -101.384 ± 69.335 χ^2/NDF : 53.6/53

asym_sam1_reg_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2/NDF : 2360092.2/15

Left Out: 331.461 $\pm$ 0.085 χ^2/NDF : 421096.3/9

Right Out: 425.980 $\pm$ 0.120 χ^2/NDF : 2368792.4/18

Left In: 332.760 $\pm$ 0.086 χ^2/NDF : 561257.0/8

Left: 332.105 $\pm$ 0.061 χ^2/NDF : 982468.2/18

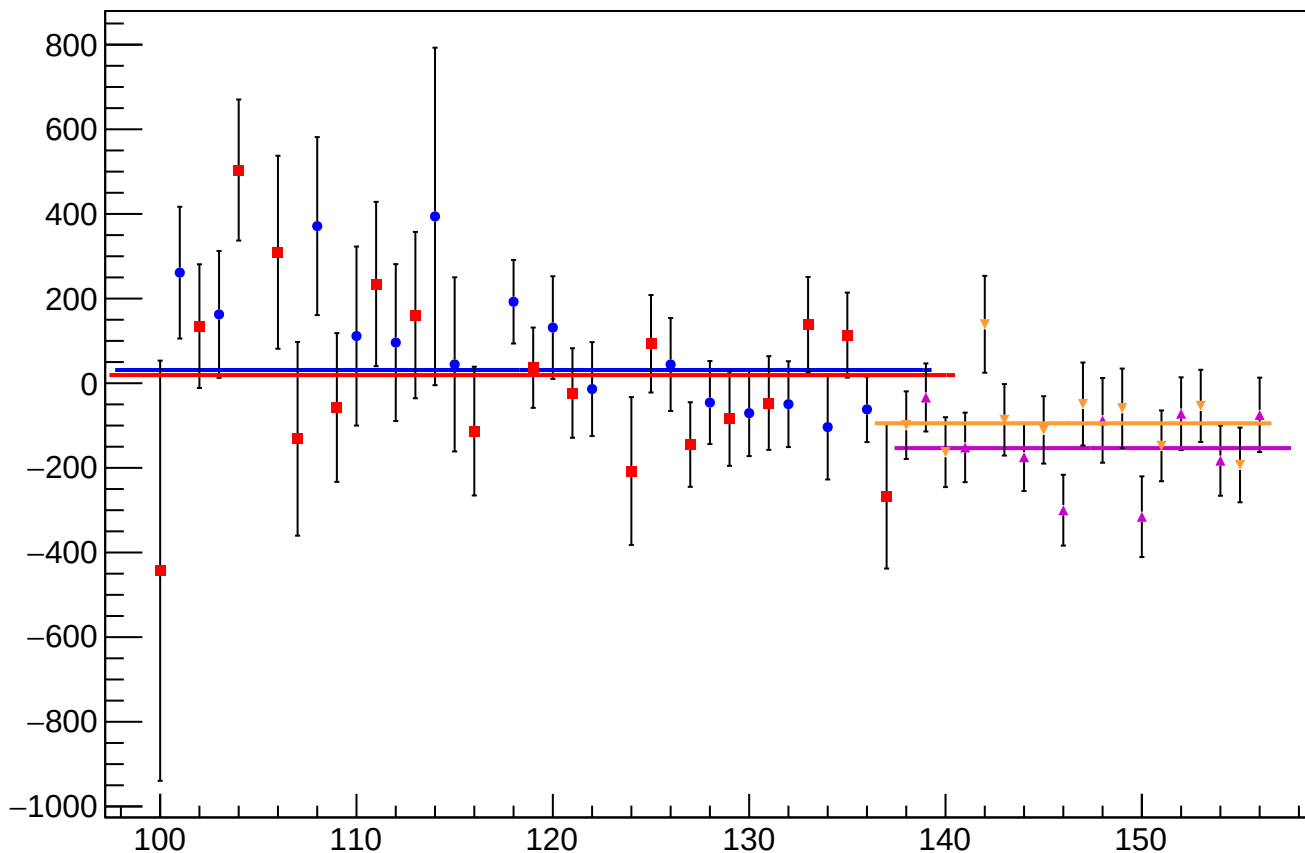
Right: 413.856 $\pm$ 0.083 χ^2/NDF : 4748361.6/34

In: 357.626 $\pm$ 0.069 χ^2/NDF : 3156080.0/24

Out: 363.007 $\pm$ 0.070 χ^2/NDF : 3199894.2/28

All: 360.295 $\pm$ 0.049 χ^2/NDF : 6358985.9/53

cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260 ± 30.786 $\chi^2/\text{NDF}: 15.1/15$

Left Out: -94.651 ± 27.686 $\chi^2/\text{NDF}: 7.2/9$

Right Out: 19.282 ± 31.060 $\chi^2/\text{NDF}: 25.7/18$

Left In: -153.267 ± 28.619 $\chi^2/\text{NDF}: 10.5/8$

Left: -122.988 ± 19.899 $\chi^2/\text{NDF}: 19.8/18$

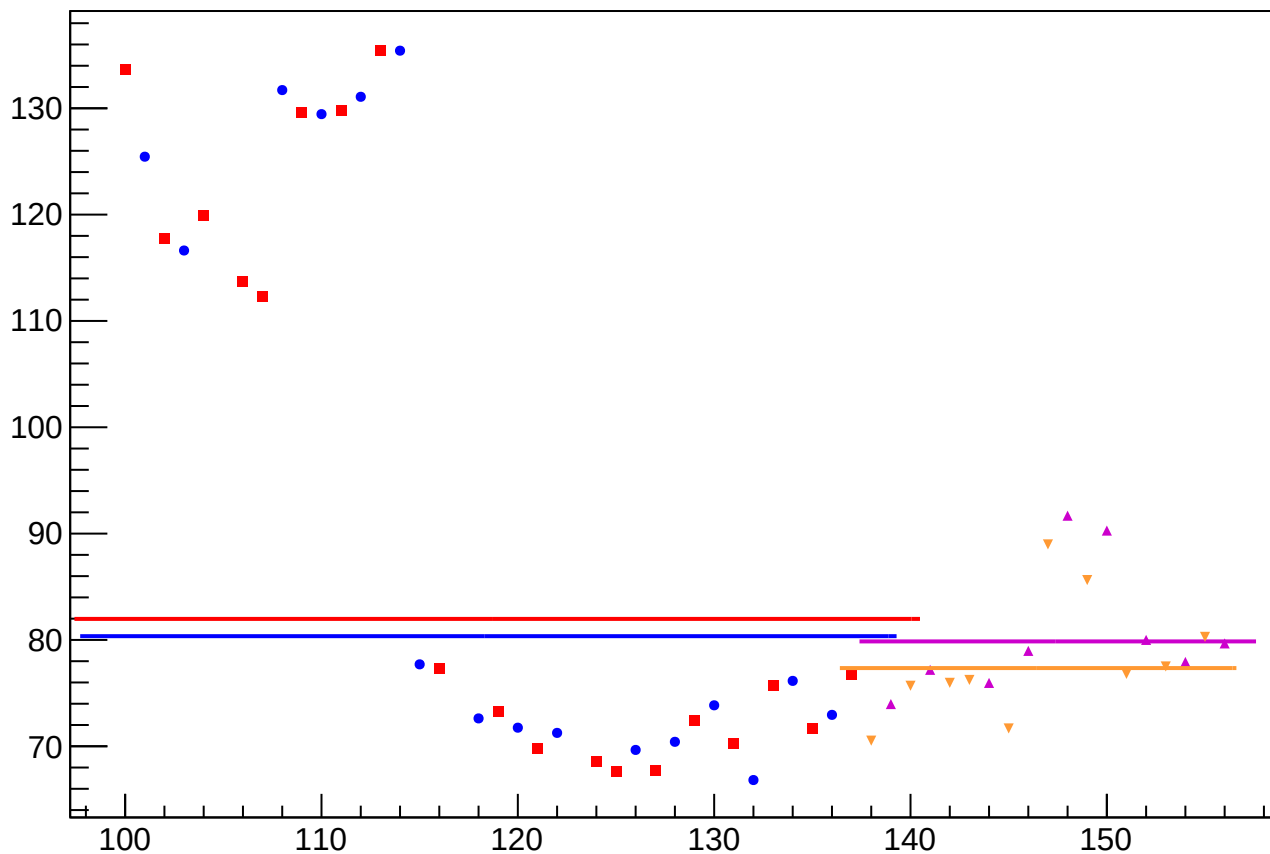
Right: 25.324 ± 21.865 $\chi^2/\text{NDF}: 40.9/34$

In: -67.726 ± 20.961 $\chi^2/\text{NDF}: 44.9/24$

Out: -44.206 ± 20.667 $\chi^2/\text{NDF}: 40.4/28$

All: -55.800 ± 14.717 $\chi^2/\text{NDF}: 85.9/53$

cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.7/15

Left Out: 77.353 $\pm$ 0.020 χ^2 /NDF: 72291.8/9

Right Out: 81.978 $\pm$ 0.022 χ^2 /NDF: 930466.5/18

Left In: 79.861 $\pm$ 0.020 χ^2 /NDF: 70722.1/8

Left: 78.566 $\pm$ 0.014 χ^2 /NDF: 150947.5/18

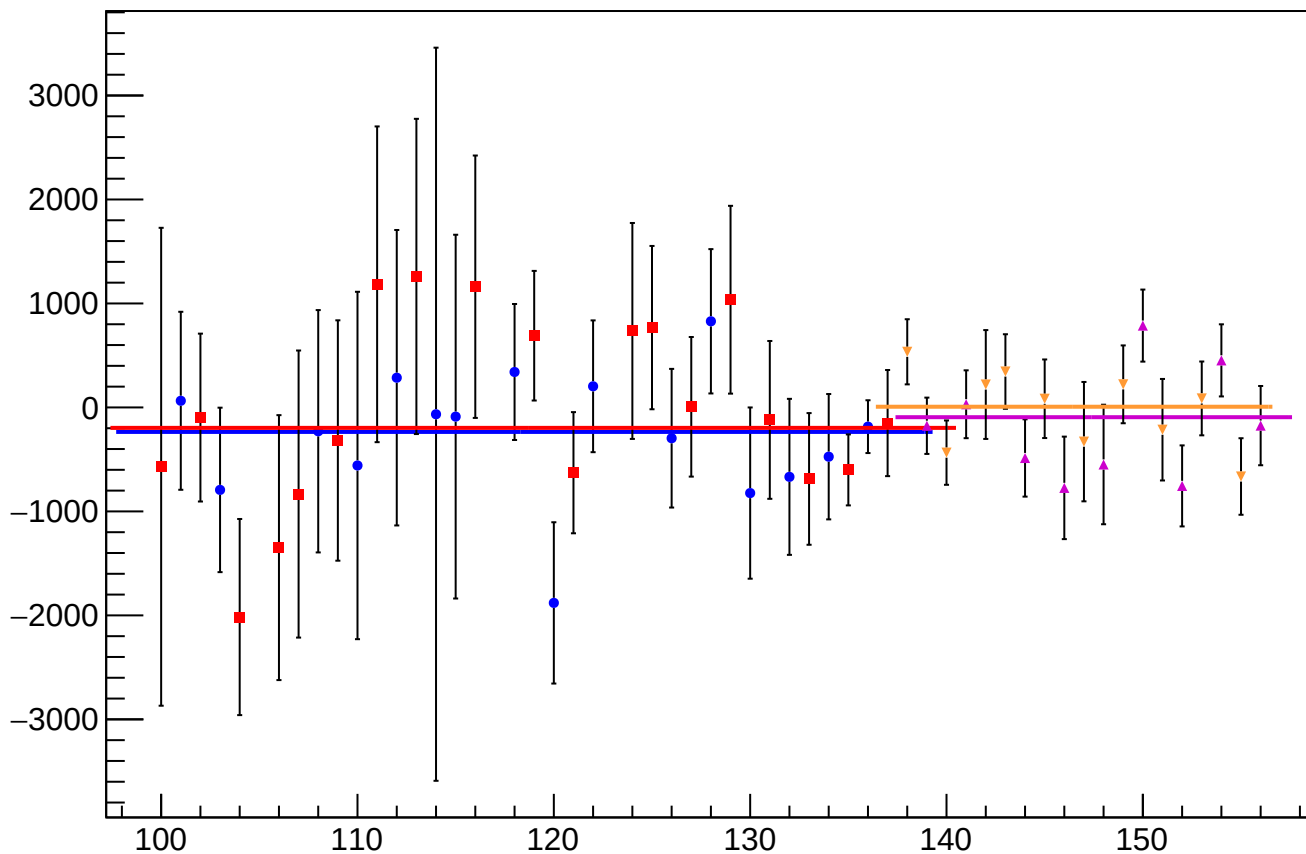
Right: 81.159 $\pm$ 0.015 χ^2 /NDF: 1773264.0/34

In: 80.090 $\pm$ 0.015 χ^2 /NDF: 911036.7/24

Out: 79.401 $\pm$ 0.015 χ^2 /NDF: 1027465.6/28

All: 79.740 $\pm$ 0.010 χ^2 /NDF: 1939597.2/53

asym_sam1_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 6.720 ± 120.600 χ^2/NDF : 10.2/9

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -93.914 ± 121.691 χ^2/NDF : 15.7/8

Left: -43.144 ± 85.660 χ^2/NDF : 26.3/18

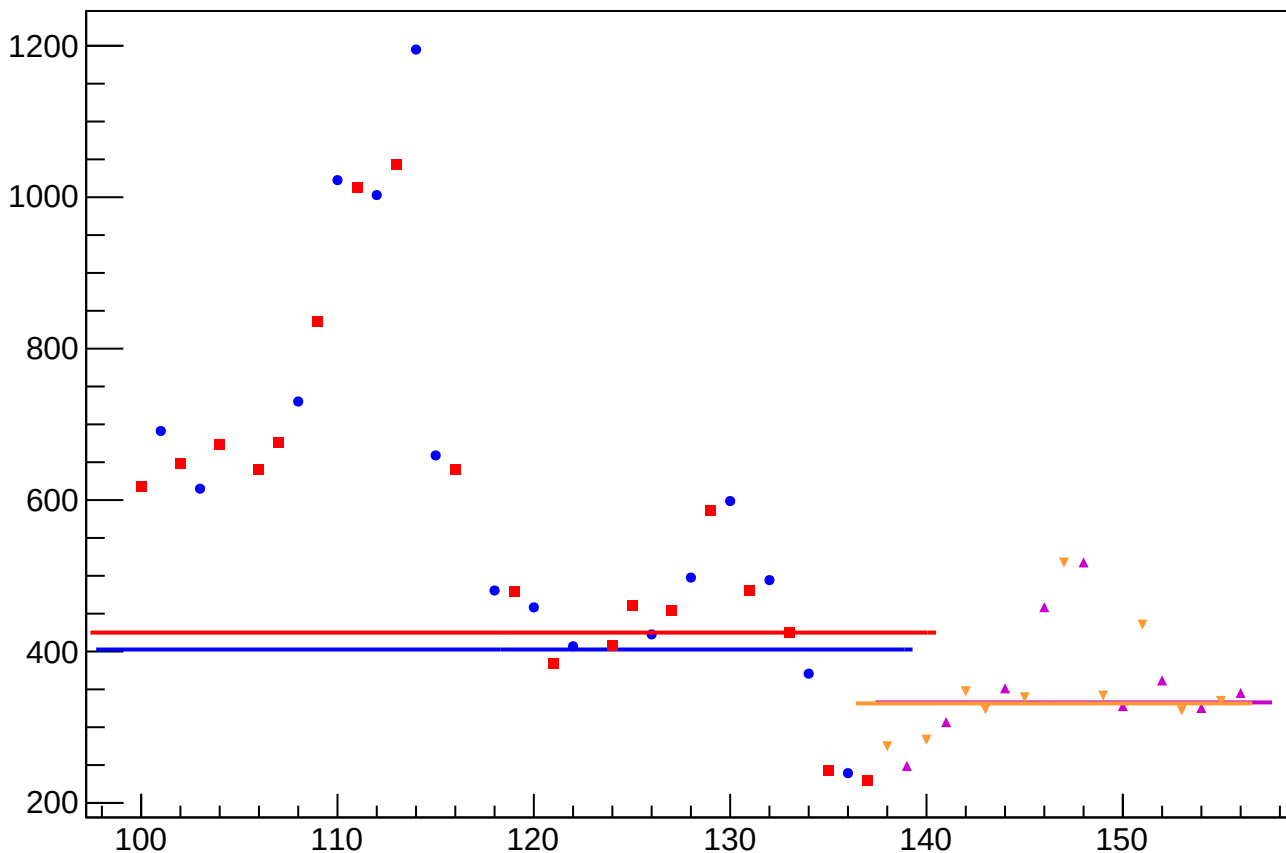
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -144.289 ± 97.676 χ^2/NDF : 26.2/24

Out: -61.079 ± 98.458 χ^2/NDF : 27.8/28

All: -103.015 ± 69.342 χ^2/NDF : 54.3/53

asym_sam1_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2/NDF : 2360087.3/15

Left Out: 331.461 $\pm$ 0.085 χ^2/NDF : 421101.7/9

Right Out: 424.988 $\pm$ 0.121 χ^2/NDF : 2341027.2/18

Left In: 332.761 $\pm$ 0.086 χ^2/NDF : 561257.9/8

Left: 332.105 $\pm$ 0.061 χ^2/NDF : 982474.7/18

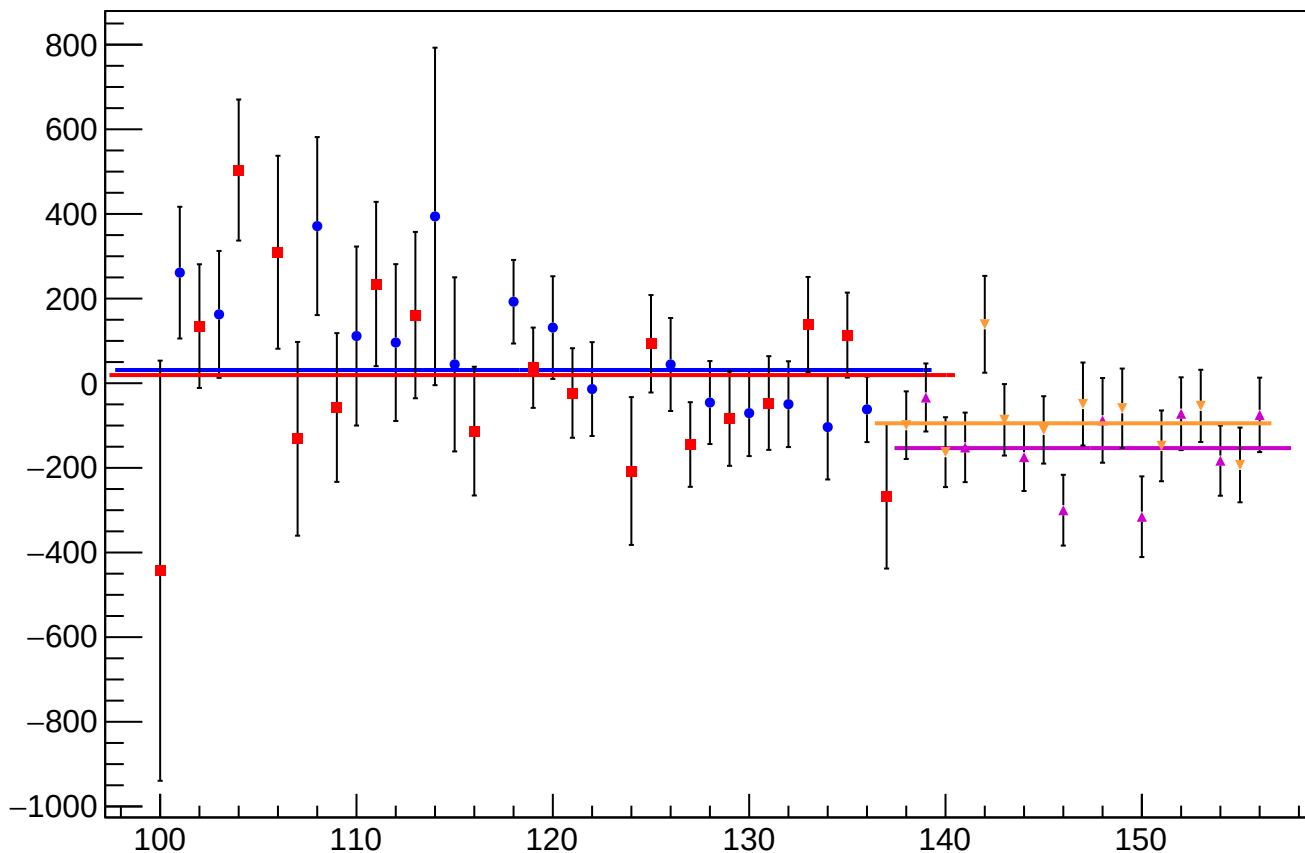
Right: 413.374 $\pm$ 0.084 χ^2/NDF : 4718958.6/34

In: 357.626 $\pm$ 0.069 χ^2/NDF : 3156076.1/24

Out: 362.652 $\pm$ 0.070 χ^2/NDF : 3163267.6/28

All: 360.119 $\pm$ 0.049 χ^2/NDF : 6321970.2/53

eigen_cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260 ± 30.786 $\chi^2/\text{NDF}: 15.1/15$

Left Out: -94.651 ± 27.686 $\chi^2/\text{NDF}: 7.2/9$

Right Out: 19.282 ± 31.060 $\chi^2/\text{NDF}: 25.7/18$

Left In: -153.267 ± 28.619 $\chi^2/\text{NDF}: 10.5/8$

Left: -122.988 ± 19.899 $\chi^2/\text{NDF}: 19.8/18$

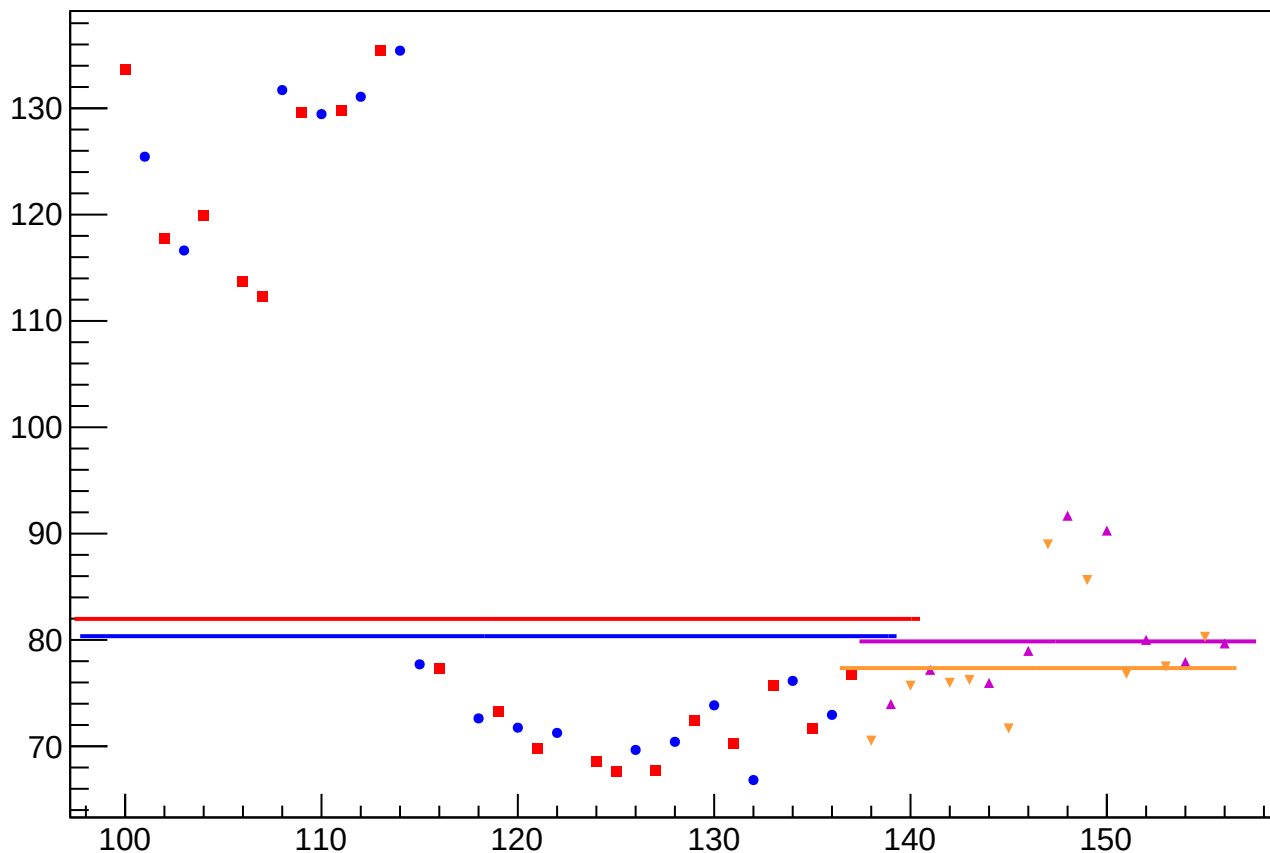
Right: 25.324 ± 21.865 $\chi^2/\text{NDF}: 40.9/34$

In: -67.726 ± 20.961 $\chi^2/\text{NDF}: 44.9/24$

Out: -44.206 ± 20.667 $\chi^2/\text{NDF}: 40.4/28$

All: -55.800 ± 14.717 $\chi^2/\text{NDF}: 85.9/53$

eigen_cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.7/15

Left Out: 77.353 $\pm$ 0.020 χ^2 /NDF: 72291.8/9

Right Out: 81.978 $\pm$ 0.022 χ^2 /NDF: 930466.5/18

Left In: 79.861 $\pm$ 0.020 χ^2 /NDF: 70722.1/8

Left: 78.566 $\pm$ 0.014 χ^2 /NDF: 150947.5/18

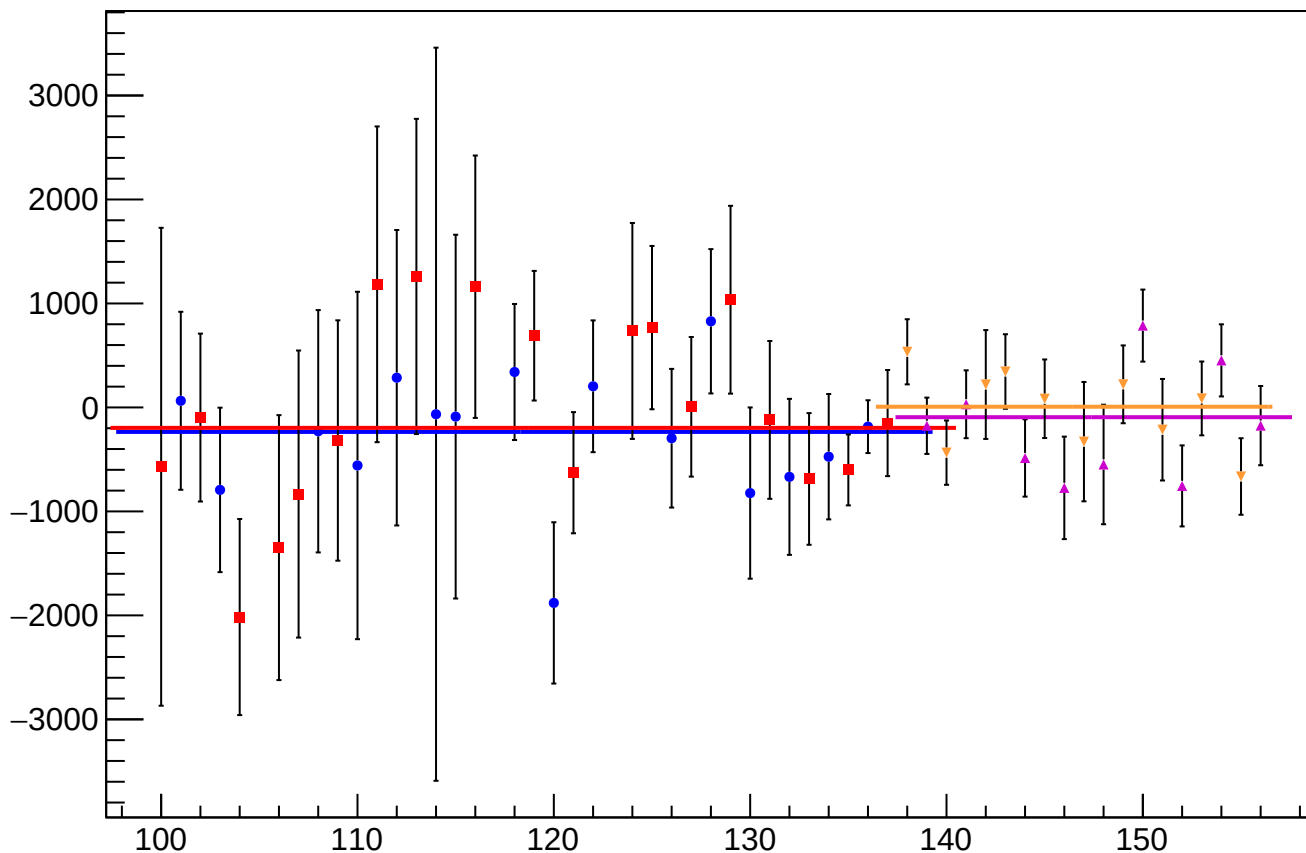
Right: 81.159 $\pm$ 0.015 χ^2 /NDF: 1773264.0/34

In: 80.090 $\pm$ 0.015 χ^2 /NDF: 911036.7/24

Out: 79.401 $\pm$ 0.015 χ^2 /NDF: 1027465.6/28

All: 79.740 $\pm$ 0.010 χ^2 /NDF: 1939597.2/53

asym_sam1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 6.720 ± 120.600 χ^2/NDF : 10.2/9

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -93.914 ± 121.691 χ^2/NDF : 15.7/8

Left: -43.144 ± 85.660 χ^2/NDF : 26.3/18

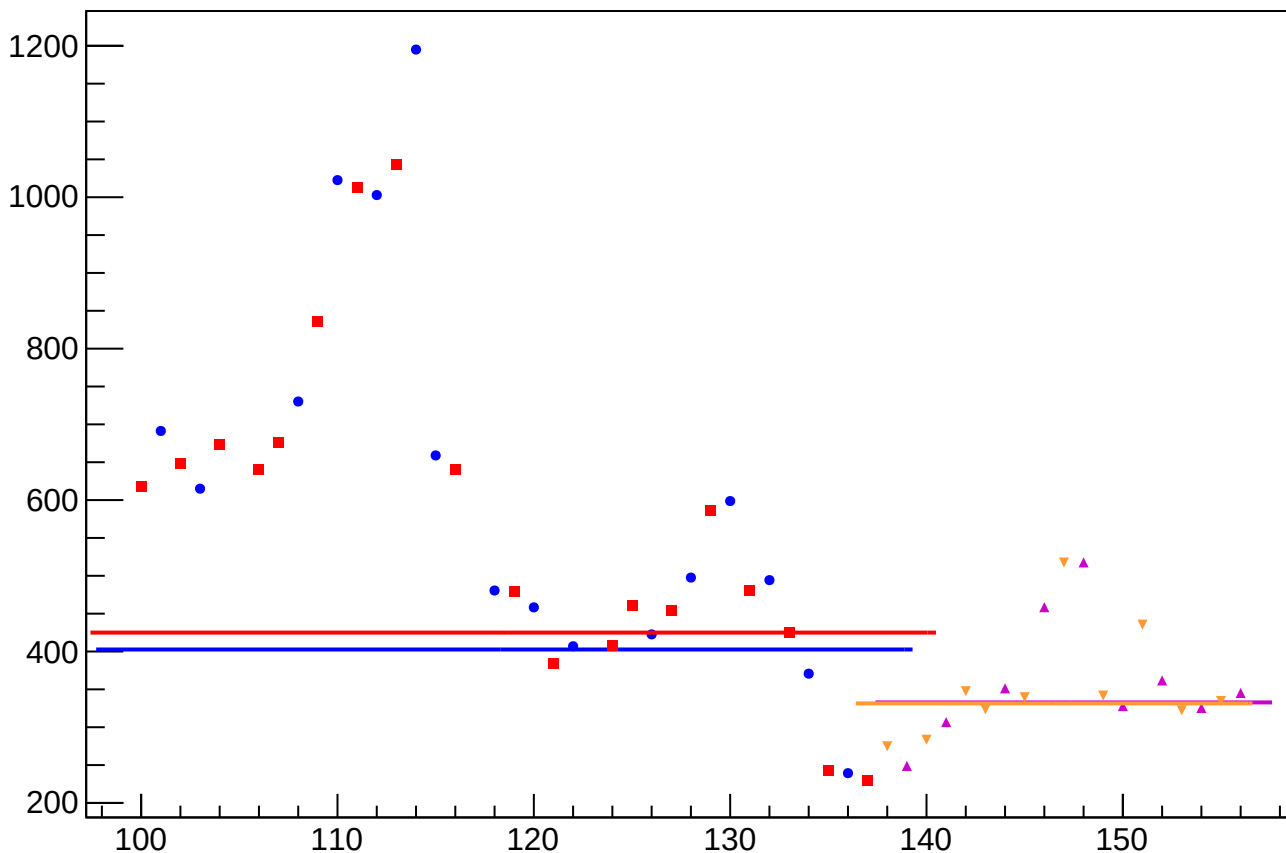
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -144.289 ± 97.676 χ^2/NDF : 26.2/24

Out: -61.079 ± 98.458 χ^2/NDF : 27.8/28

All: -103.015 ± 69.342 χ^2/NDF : 54.3/53

asym_sam1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658+/-0.116 χ^2/NDF : 2360087.3/15

Left Out: 331.461+/-0.085 χ^2/NDF : 421101.7/9

Right Out: 424.988+/-0.121 χ^2/NDF : 2341027.2/18

Left In: 332.761+/-0.086 χ^2/NDF : 561257.9/8

Left: 332.105+/-0.061 χ^2/NDF : 982474.7/18

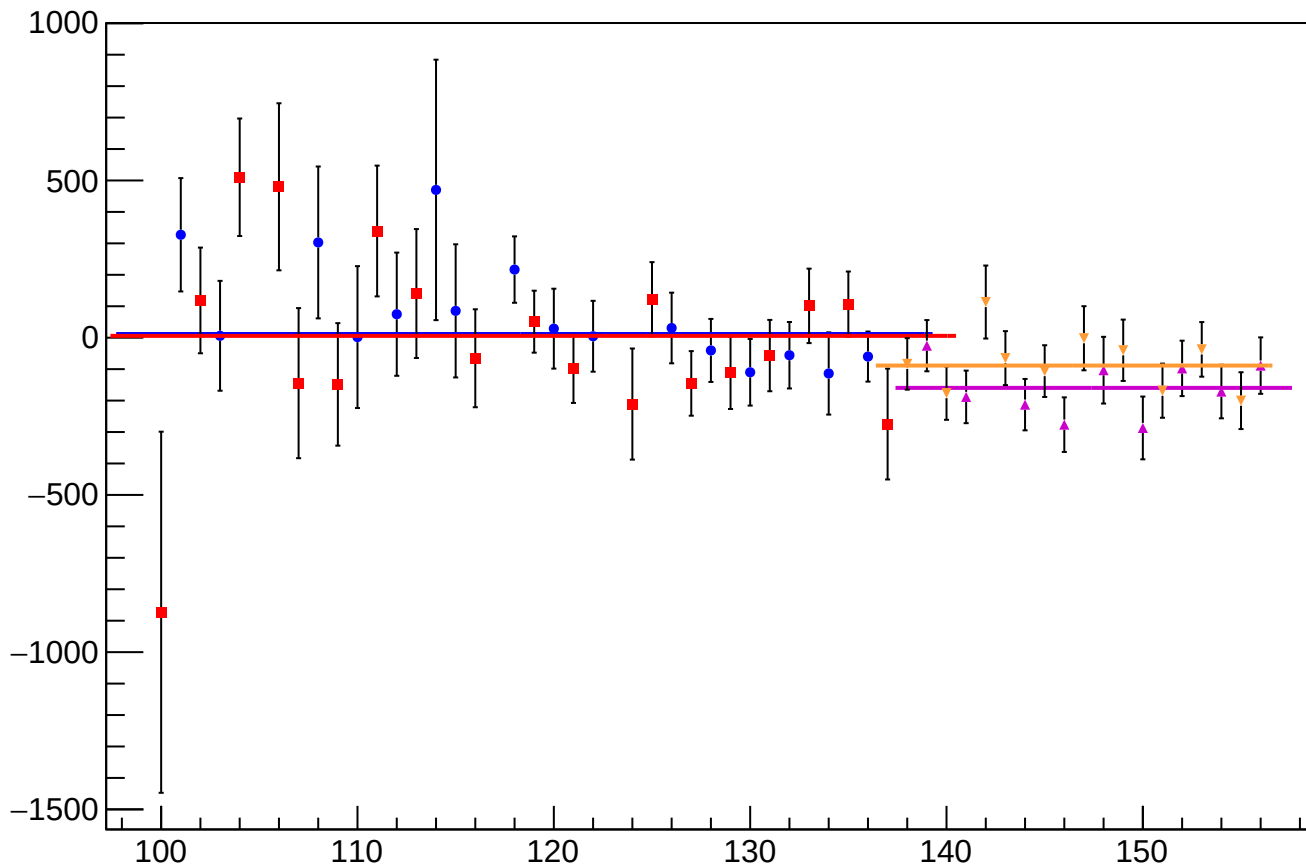
Right: 413.374+/-0.084 χ^2/NDF : 4718958.6/34

In: 357.626+/-0.069 χ^2/NDF : 3156076.1/24

Out: 362.652+/-0.070 χ^2/NDF : 3163267.6/28

All: 360.119+/-0.049 χ^2/NDF : 6321970.2/53

dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.651 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -88.556 ± 28.433 $\chi^2/\text{NDF}: 7.9/9$

Right Out: 5.817 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -159.594 ± 29.407 $\chi^2/\text{NDF}: 8.1/8$

Left: -122.880 ± 20.441 $\chi^2/\text{NDF}: 19.1/18$

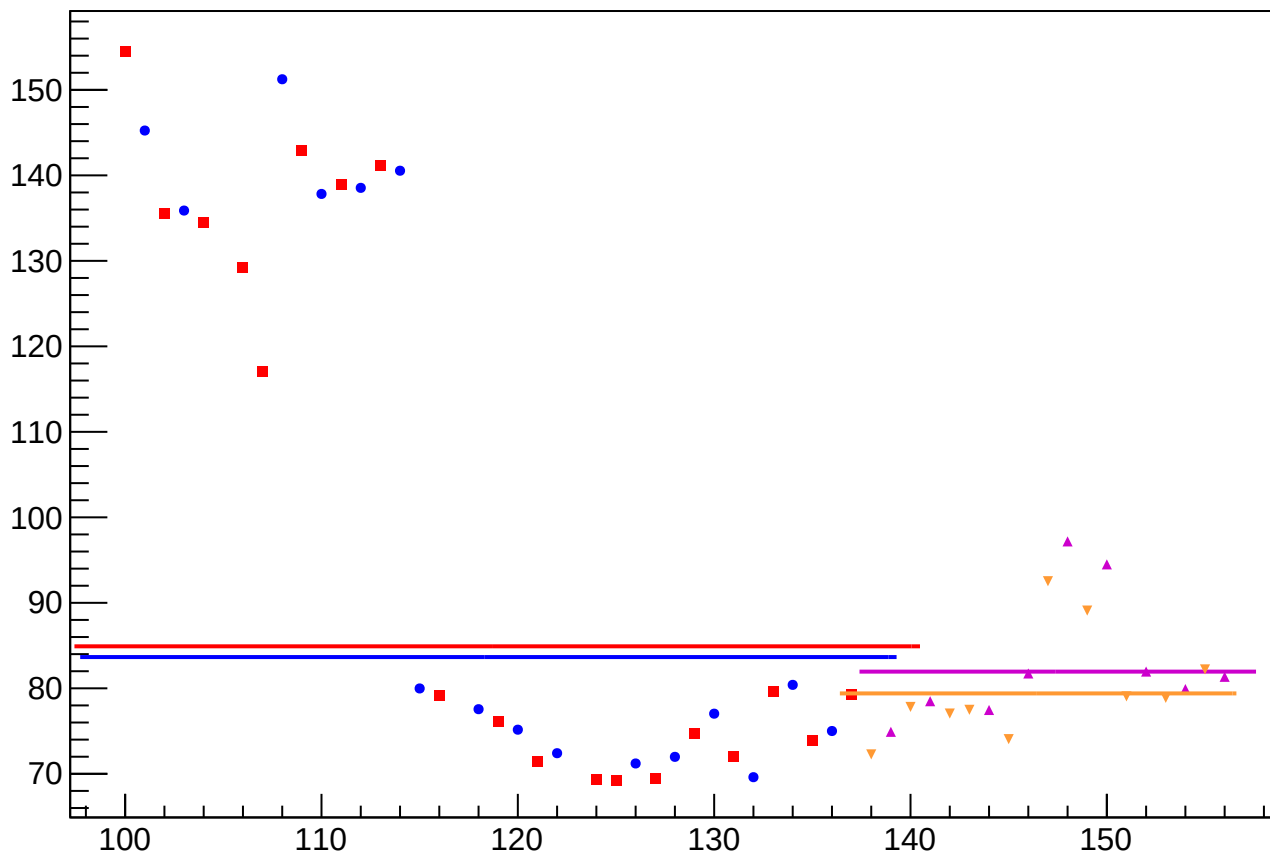
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -81.976 ± 21.744 $\chi^2/\text{NDF}: 37.0/24$

Out: -47.560 ± 21.383 $\chi^2/\text{NDF}: 41.5/28$

All: -64.480 ± 15.246 $\chi^2/\text{NDF}: 79.8/53$

dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2 /NDF: 1034794.6/15

Left Out: 79.404 $\pm$ 0.020 χ^2 /NDF:81069.6/9

Right Out: 84.913 $\pm$ 0.023 χ^2 /NDF: 1121669.5/18

Left In: 81.953 $\pm$ 0.021 χ^2 /NDF:98477.6/8

Left: 80.636 $\pm$ 0.014 χ^2 /NDF: 187312.4/18

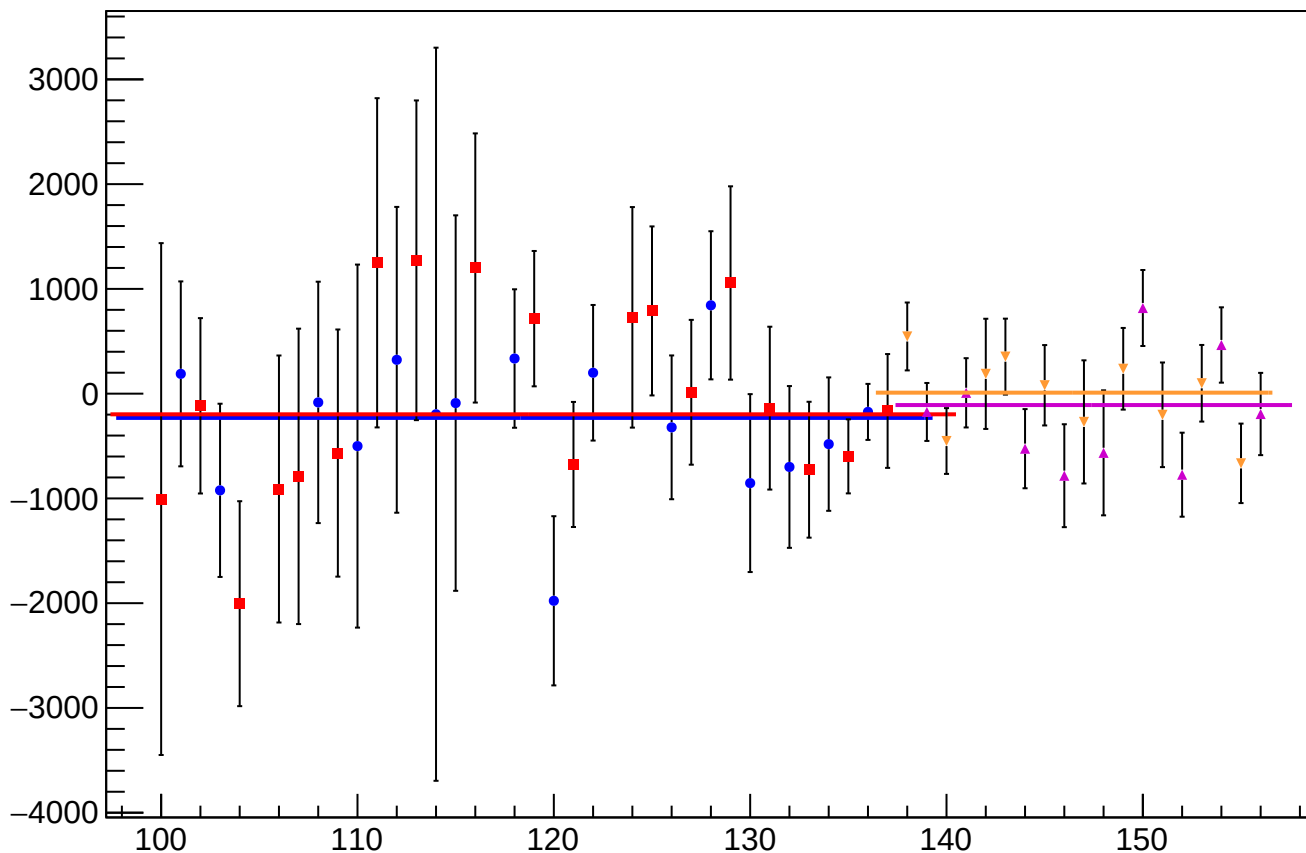
Right: 84.282 $\pm$ 0.016 χ^2 /NDF: 2157969.4/34

In: 82.725 $\pm$ 0.015 χ^2 /NDF:1136315.9/24

Out: 81.797 $\pm$ 0.015 χ^2 /NDF:1235350.7/28

All: 82.254 $\pm$ 0.011 χ^2 /NDF: 2373519.0/53

asym_sam1_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.407 ± 170.133 χ^2/NDF : 10.4/15

Left Out: 9.546 ± 123.465 χ^2/NDF : 9.9/9

Right Out: -197.206 ± 176.091 χ^2/NDF : 15.9/18

Left In: -108.757 ± 124.791 χ^2/NDF : 15.7/8

Left: -48.974 ± 87.768 χ^2/NDF : 26.1/18

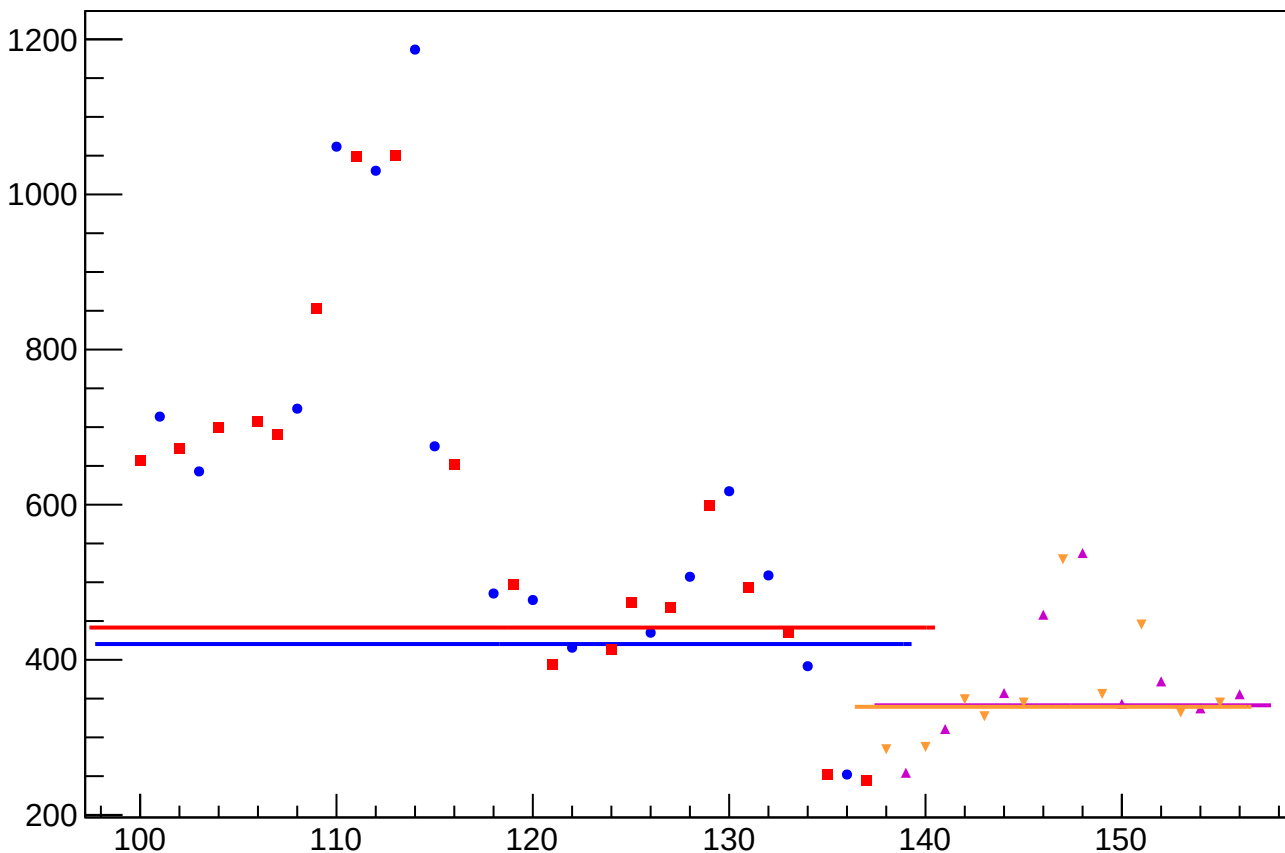
Right: -214.895 ± 122.354 χ^2/NDF : 26.3/34

In: -151.661 ± 100.624 χ^2/NDF : 26.5/24

Out: -58.595 ± 101.092 χ^2/NDF : 26.7/28

All: -105.344 ± 71.317 χ^2/NDF : 53.6/53

asym_sam1_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254610.0/15

Left Out: 339.402+/-0.087 χ^2/NDF : 419265.2/9

Right Out: 441.598+/-0.125 χ^2/NDF : 2307588.5/18

Left In: 341.352+/-0.088 χ^2/NDF : 562581.5/8

Left: 340.367+/-0.062 χ^2/NDF : 982093.7/18

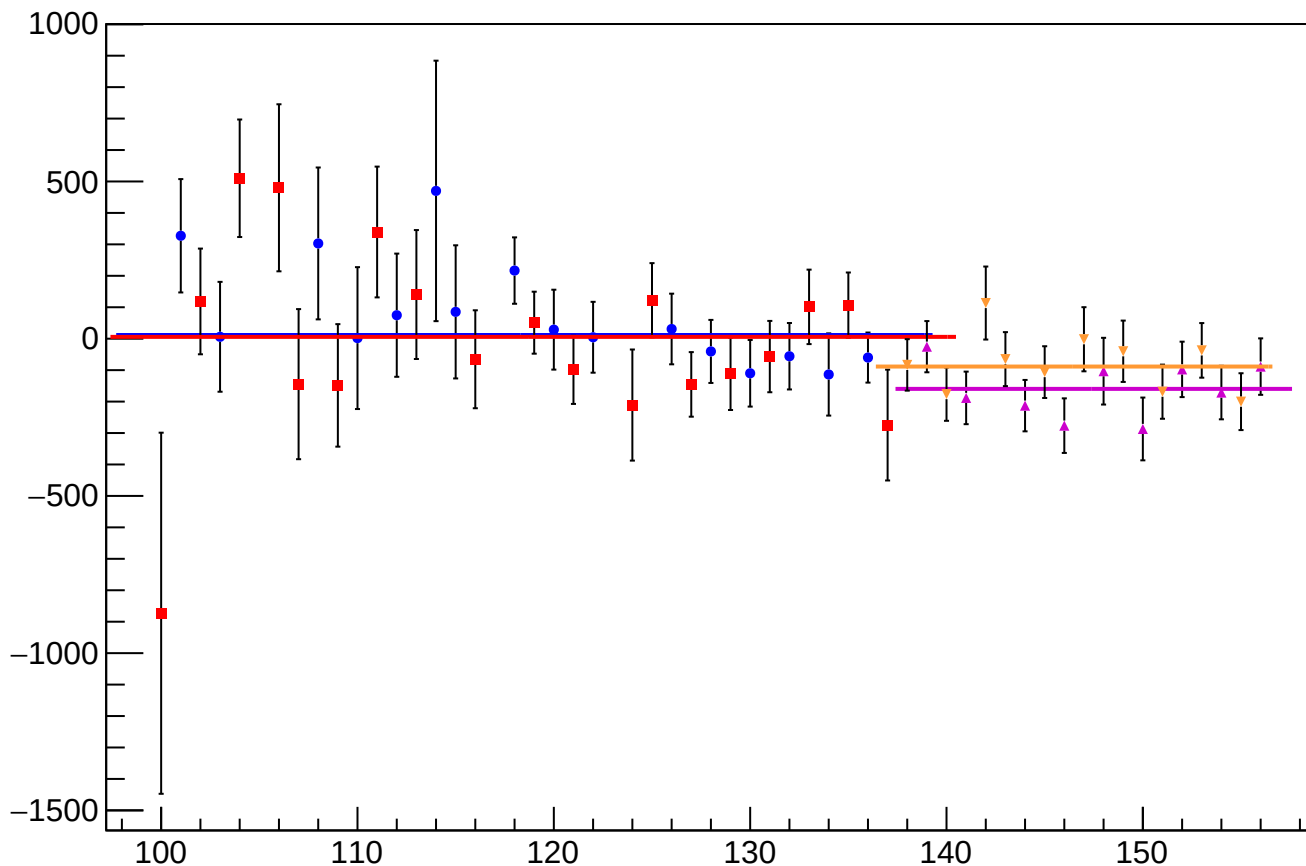
Right: 430.598+/-0.087 χ^2/NDF : 4577288.4/34

In: 368.979+/-0.071 χ^2/NDF : 3097409.1/24

Out: 373.083+/-0.071 χ^2/NDF : 3178470.4/28

All: 371.022+/-0.050 χ^2/NDF : 6277535.3/53

eigen_dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.652 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -88.555 ± 28.433 $\chi^2/\text{NDF}: 7.9/9$

Right Out: 5.816 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -159.594 ± 29.407 $\chi^2/\text{NDF}: 8.1/8$

Left: -122.879 ± 20.441 $\chi^2/\text{NDF}: 19.1/18$

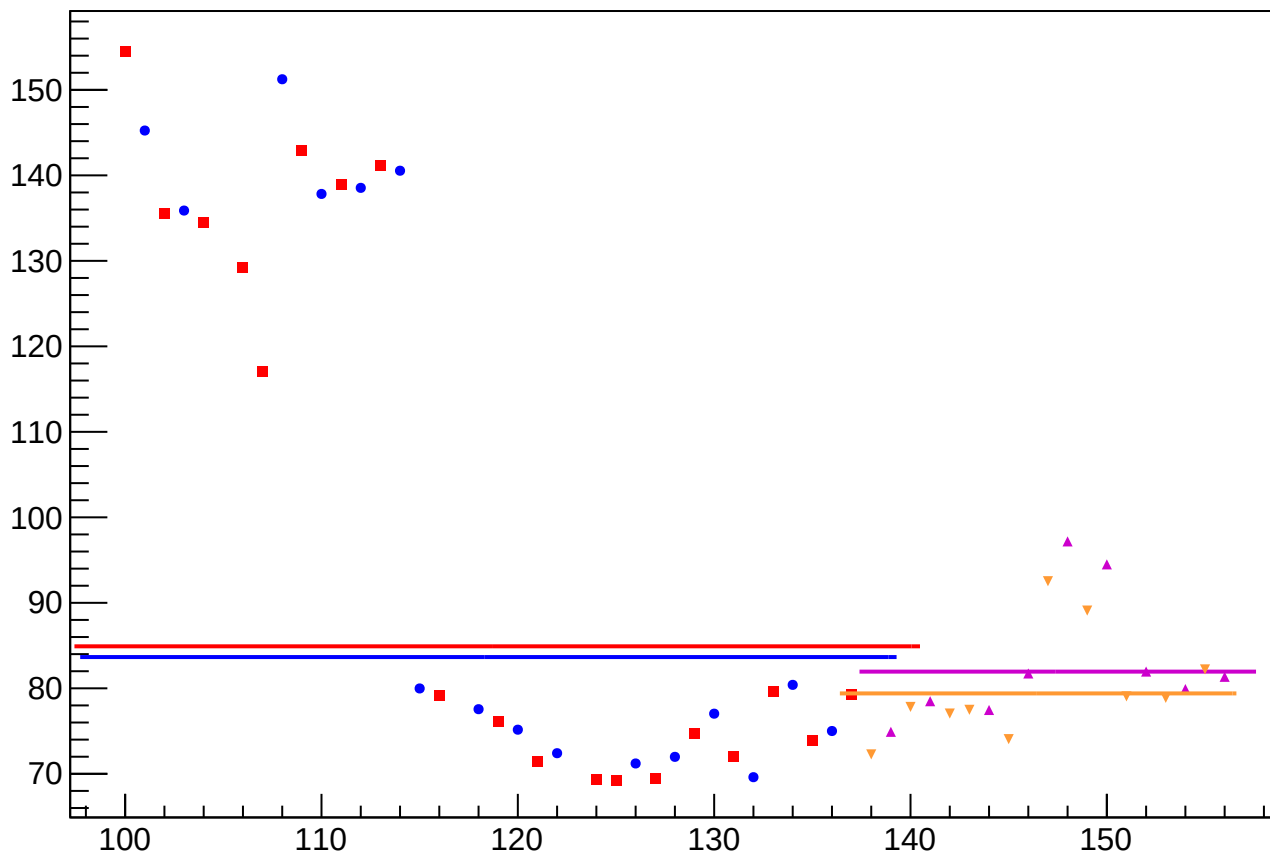
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -81.975 ± 21.744 $\chi^2/\text{NDF}: 37.0/24$

Out: -47.560 ± 21.383 $\chi^2/\text{NDF}: 41.5/28$

All: -64.480 ± 15.246 $\chi^2/\text{NDF}: 79.8/53$

eigen_dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2/NDF : 1034794.1/15

Left Out: 79.404 $\pm$ 0.020 χ^2/NDF :81069.3/9

Right Out: 84.913 $\pm$ 0.023 χ^2/NDF : 1121668.5/18

Left In: 81.953 $\pm$ 0.021 χ^2/NDF :98476.7/8

Left: 80.636 $\pm$ 0.014 χ^2/NDF : 187311.3/18

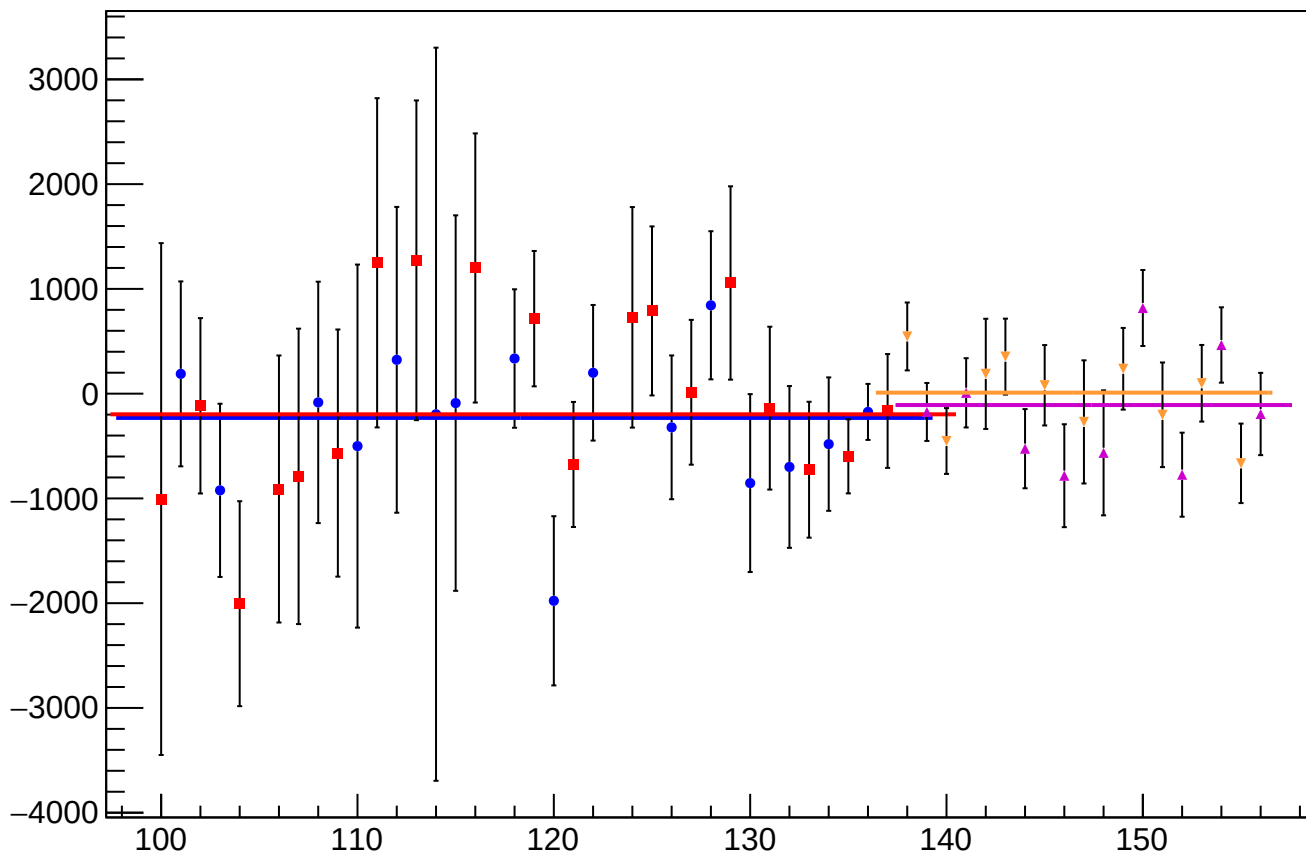
Right: 84.282 $\pm$ 0.016 χ^2/NDF : 2157967.8/34

In: 82.725 $\pm$ 0.015 χ^2/NDF :1136314.2/24

Out: 81.797 $\pm$ 0.015 χ^2/NDF :1235348.5/28

All: 82.254 $\pm$ 0.011 χ^2/NDF : 2373515.2/53

asym_sam1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.405 $\pm$ 170.132 χ^2 /NDF: 10.4/15

Left Out: 9.546 $\pm$ 123.465 χ^2 /NDF:9.9/9

Right Out: -197.207 $\pm$ 176.091 χ^2 /NDF: 15.9/18

Left In: -108.757 $\pm$ 124.790 χ^2 /NDF:15.7/8

Left: -48.973 $\pm$ 87.768 χ^2 /NDF: 26.1/18

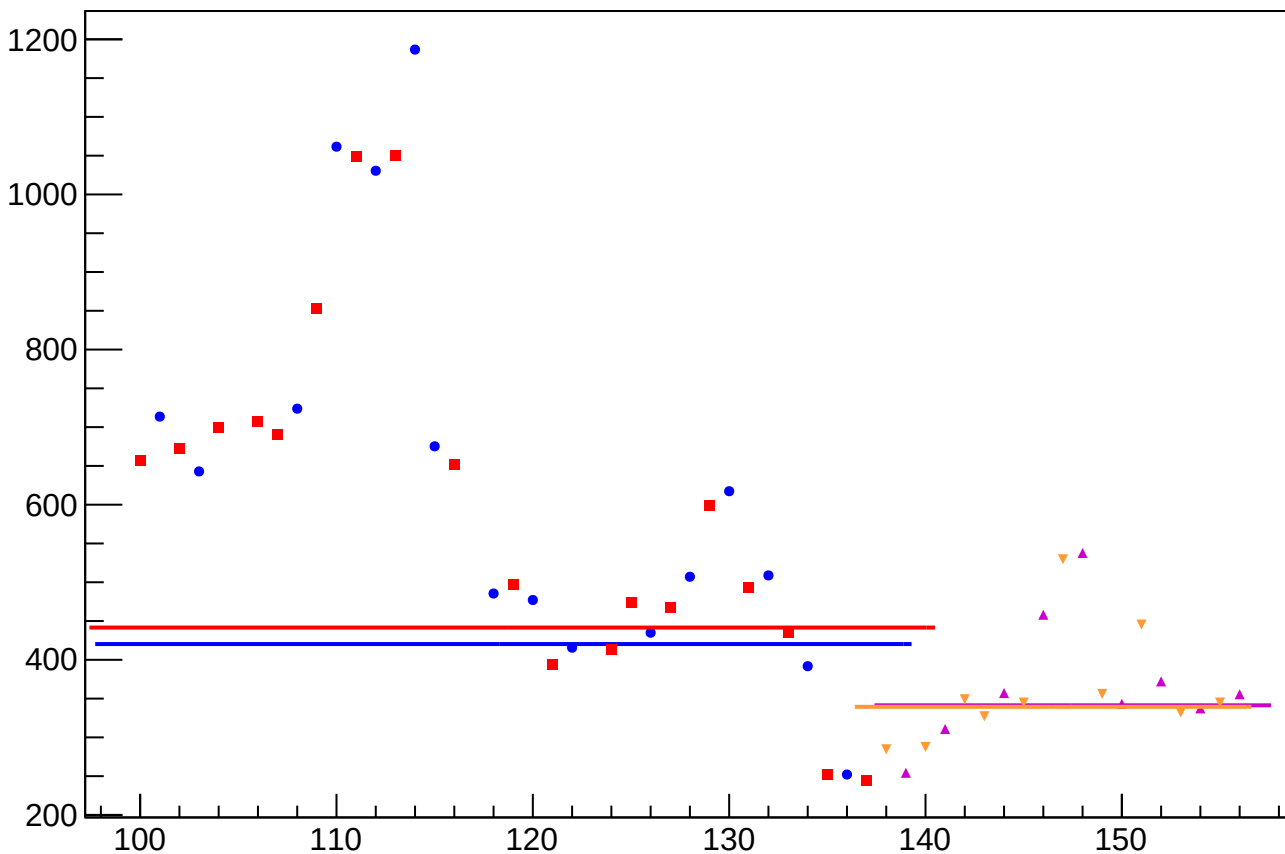
Right: -214.894 $\pm$ 122.354 χ^2 /NDF: 26.3/34

In: -151.660 $\pm$ 100.624 χ^2 /NDF:26.5/24

Out: -58.595 $\pm$ 101.092 χ^2 /NDF:26.7/28

All: -105.343 $\pm$ 71.317 χ^2 /NDF: 53.6/53

asym_sam1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254614.9/15

Left Out: 339.402+/-0.087 χ^2/NDF : 419264.8/9

Right Out: 441.597+/-0.125 χ^2/NDF : 2307595.1/18

Left In: 341.352+/-0.088 χ^2/NDF : 562582.5/8

Left: 340.366+/-0.062 χ^2/NDF : 982094.3/18

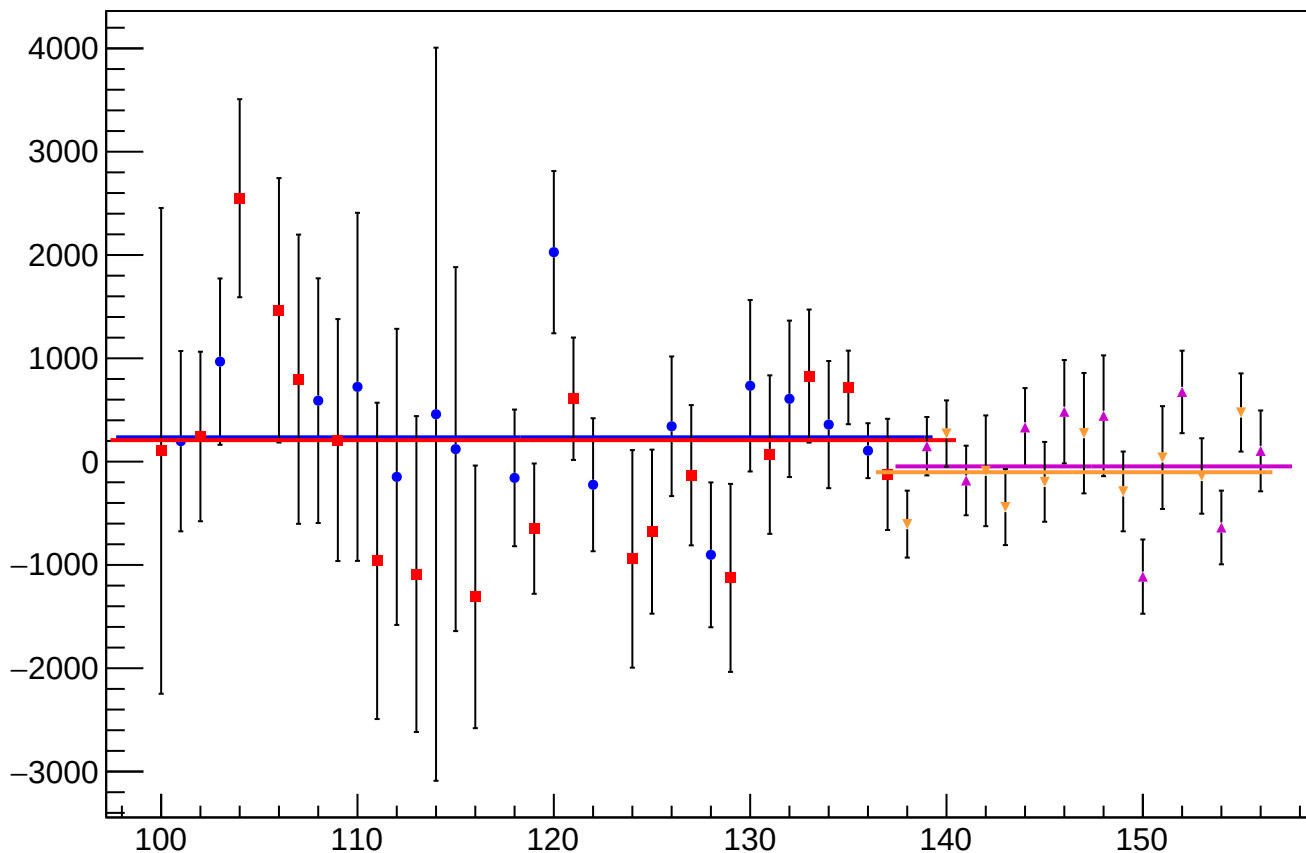
Right: 430.597+/-0.087 χ^2/NDF : 4577299.7/34

In: 368.979+/-0.071 χ^2/NDF : 3097411.8/24

Out: 373.083+/-0.071 χ^2/NDF : 3178472.3/28

All: 371.021+/-0.050 χ^2/NDF : 6277539.8/53

asym_sam1_mean vs Slug, Sign Corrected



Right In: 235.054 $\pm$ 168.199 χ^2 /NDF: 10.7/15

Left Out: -102.541 $\pm$ 124.052 χ^2 /NDF:7.7/9

Right Out: 207.936 $\pm$ 174.716 χ^2 /NDF: 20.4/18

Left In: -46.104 $\pm$ 125.412 χ^2 /NDF:18.4/8

Left: -74.630 $\pm$ 88.195 χ^2 /NDF: 26.3/18

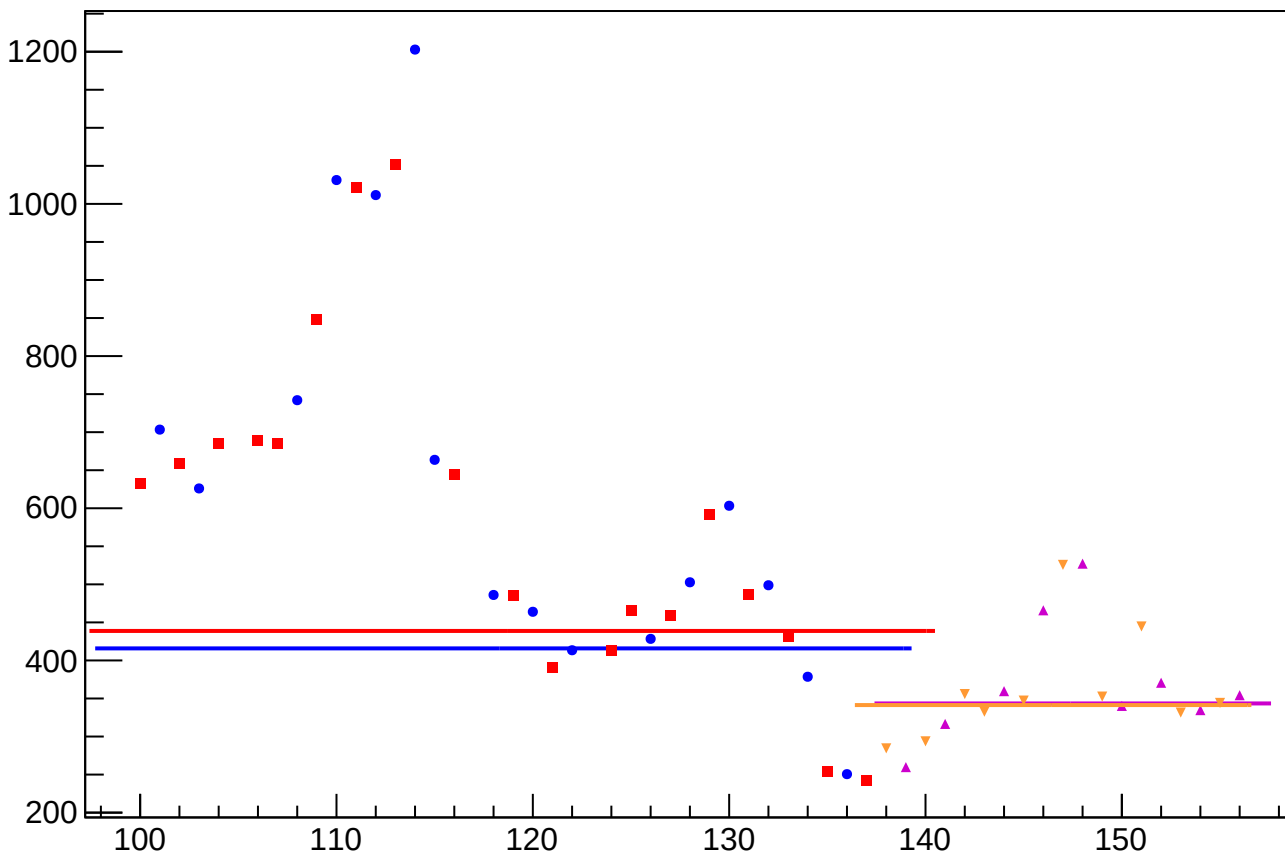
Right: 222.010 $\pm$ 121.173 χ^2 /NDF: 31.1/34

In: 54.355 $\pm$ 100.541 χ^2 /NDF:30.9/24

Out: 1.520 $\pm$ 101.149 χ^2 /NDF:30.2/28

All: 28.097 $\pm$ 71.307 χ^2 /NDF: 61.3/53

asym_sam1_rms vs Slug, Sign Corrected



Right In: 415.840 $\pm$ 0.119 χ^2 /NDF: 2223949.6/15

Left Out: 341.360 $\pm$ 0.088 χ^2 /NDF:398261.5/9

Right Out: 438.773 $\pm$ 0.124 χ^2 /NDF: 2234776.6/18

Left In: 343.494 $\pm$ 0.089 χ^2 /NDF:520943.6/8

Left: 342.416 $\pm$ 0.062 χ^2 /NDF: 919497.7/18

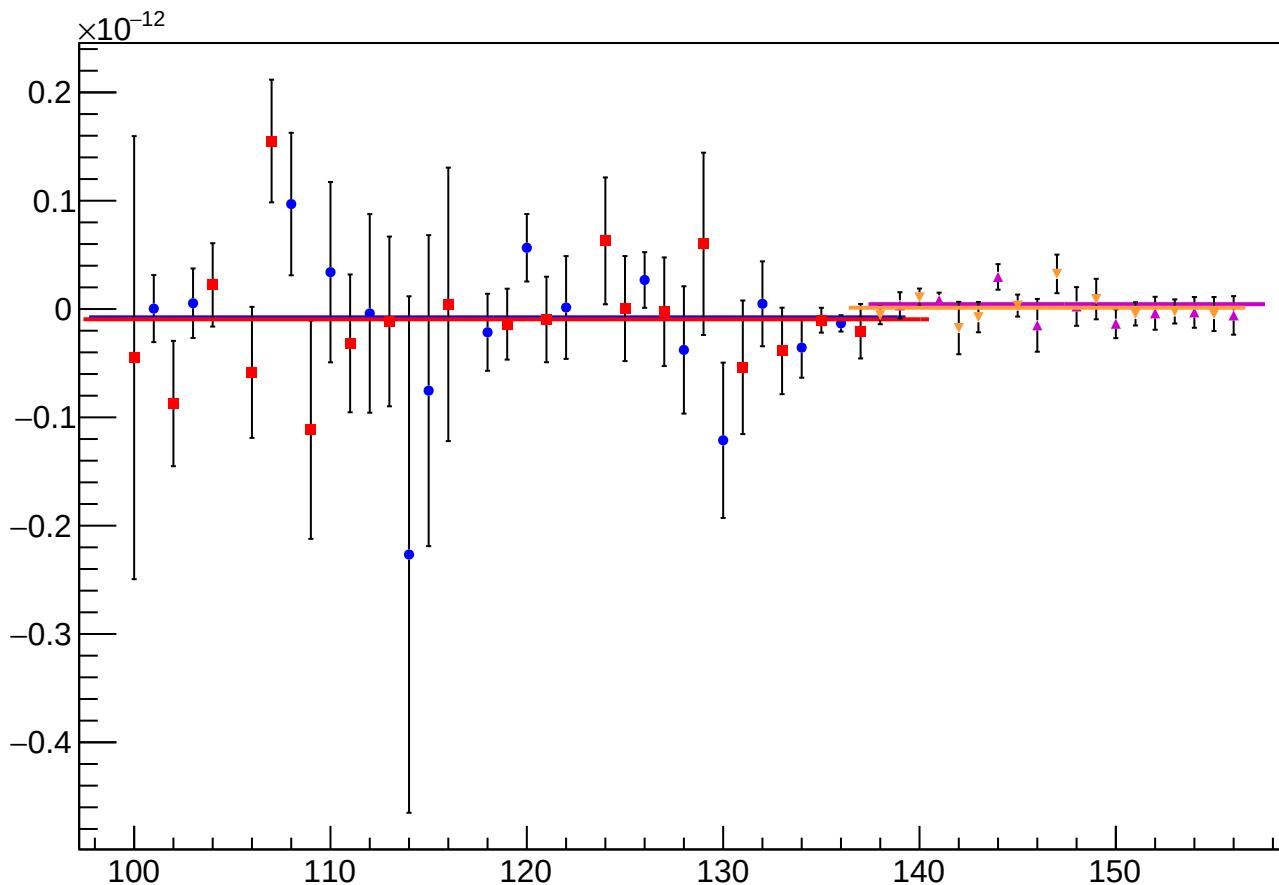
Right: 426.871 $\pm$ 0.086 χ^2 /NDF: 4476610.3/34

In: 369.343 $\pm$ 0.071 χ^2 /NDF:2982694.1/24

Out: 374.010 $\pm$ 0.072 χ^2 /NDF:3046380.9/28

All: 371.662 $\pm$ 0.050 χ^2 /NDF: 6031216.2/53

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 : 6.8/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.3/18

Left In: 0.000 ± 0.000 χ^2/NDF : 8.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 15.4/18

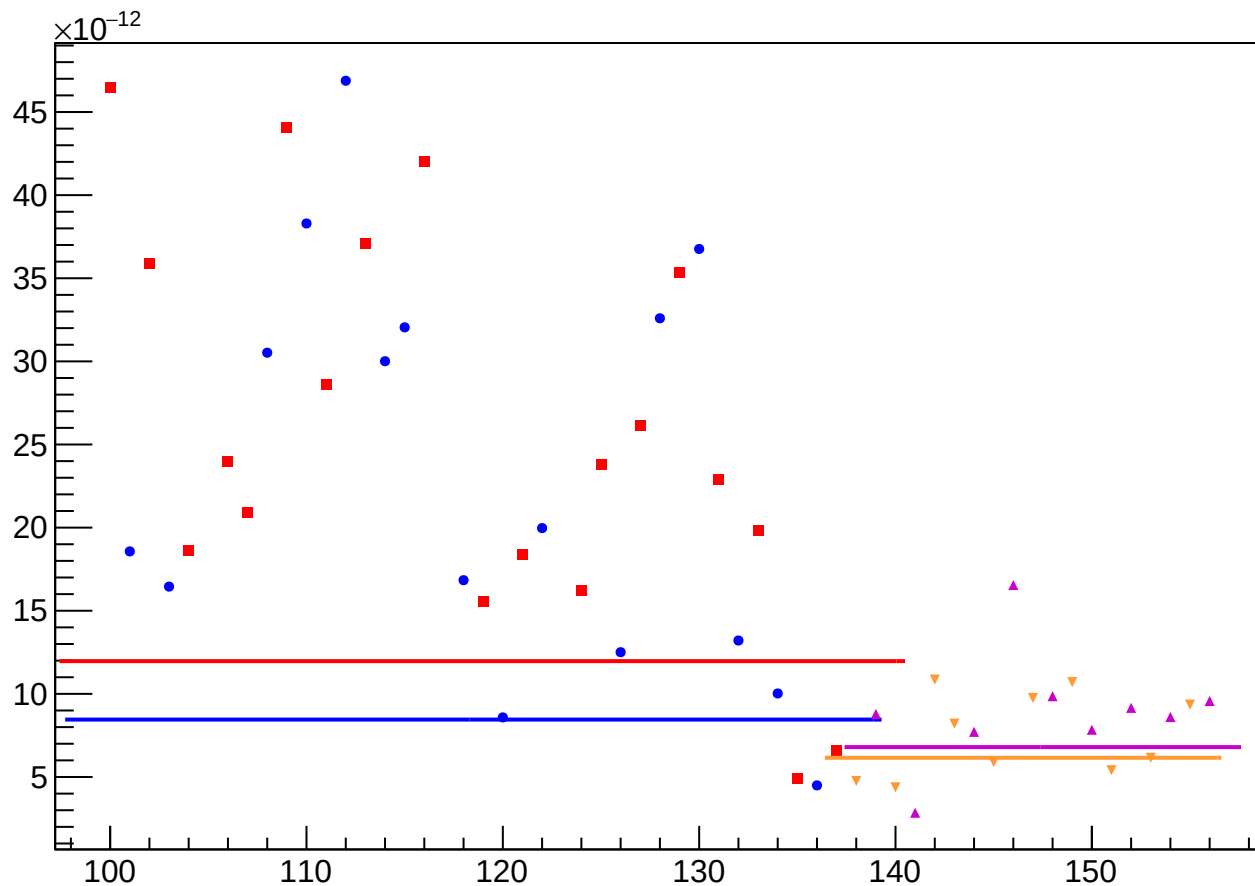
Right: -0.000 ± 0.000 χ^2/NDF : 31.1/34

In: 0.000 ± 0.000 χ^2/NDF : 25.7/24

Out: -0.000 ± 0.000 χ^2/NDF : 24.6/28

All: 0.000 ± 0.000 χ^2/NDF : 50.3/53

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 : 563447.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2760154.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1217983.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1807866.2/18

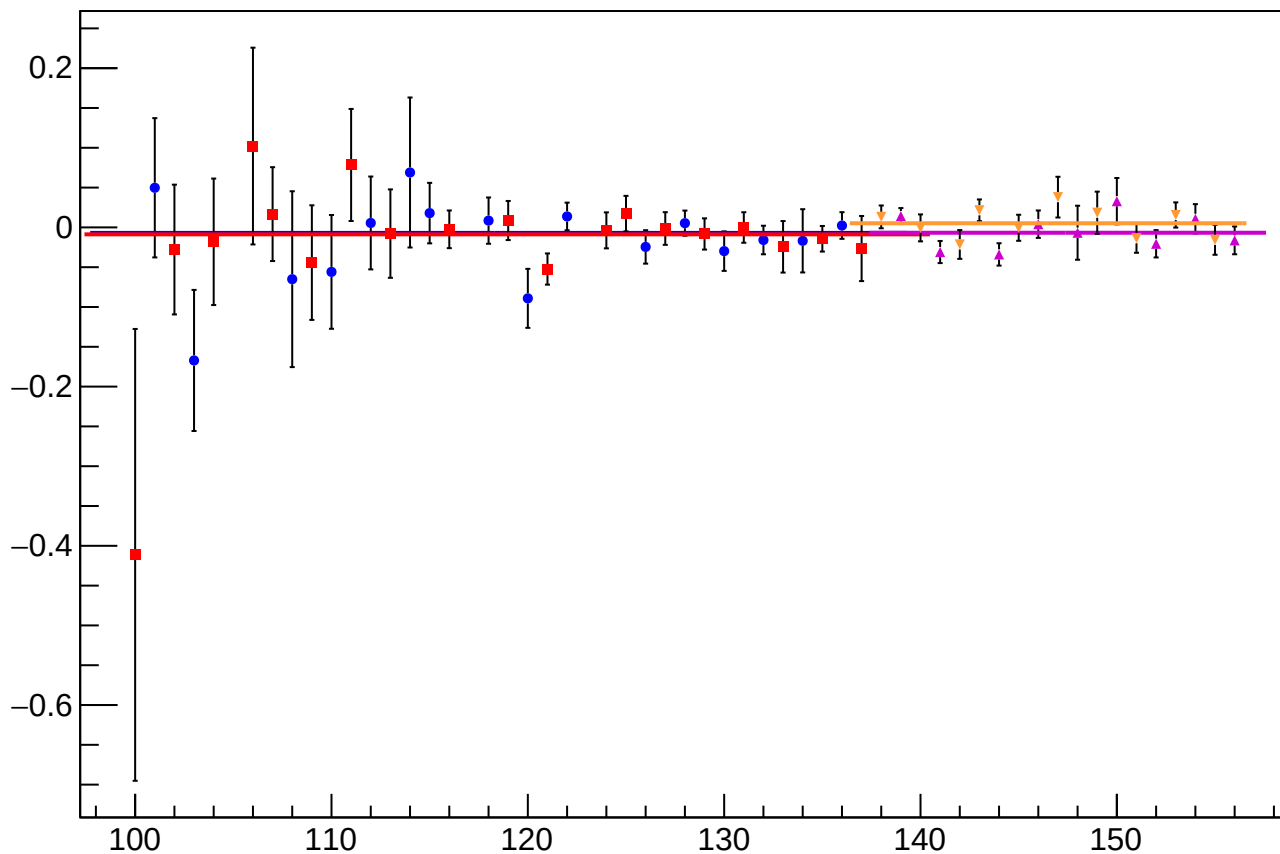
Right: 0.000+/-0.000 χ^2/NDF : 5753139.7/34

In: 0.000+/-0.000 χ^2/NDF : 4072840.7/24

Out: 0.000+/-0.000 χ^2/NDF : 4166644.2/28

All: 0.000+/-0.000 χ^2/NDF : 8241936.3/53

asym_sam1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 0.005 ± 0.005 $\chi^2/\text{NDF}: 8.8/9$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.007 ± 0.005 $\chi^2/\text{NDF}: 15.2/8$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 26.4/18$

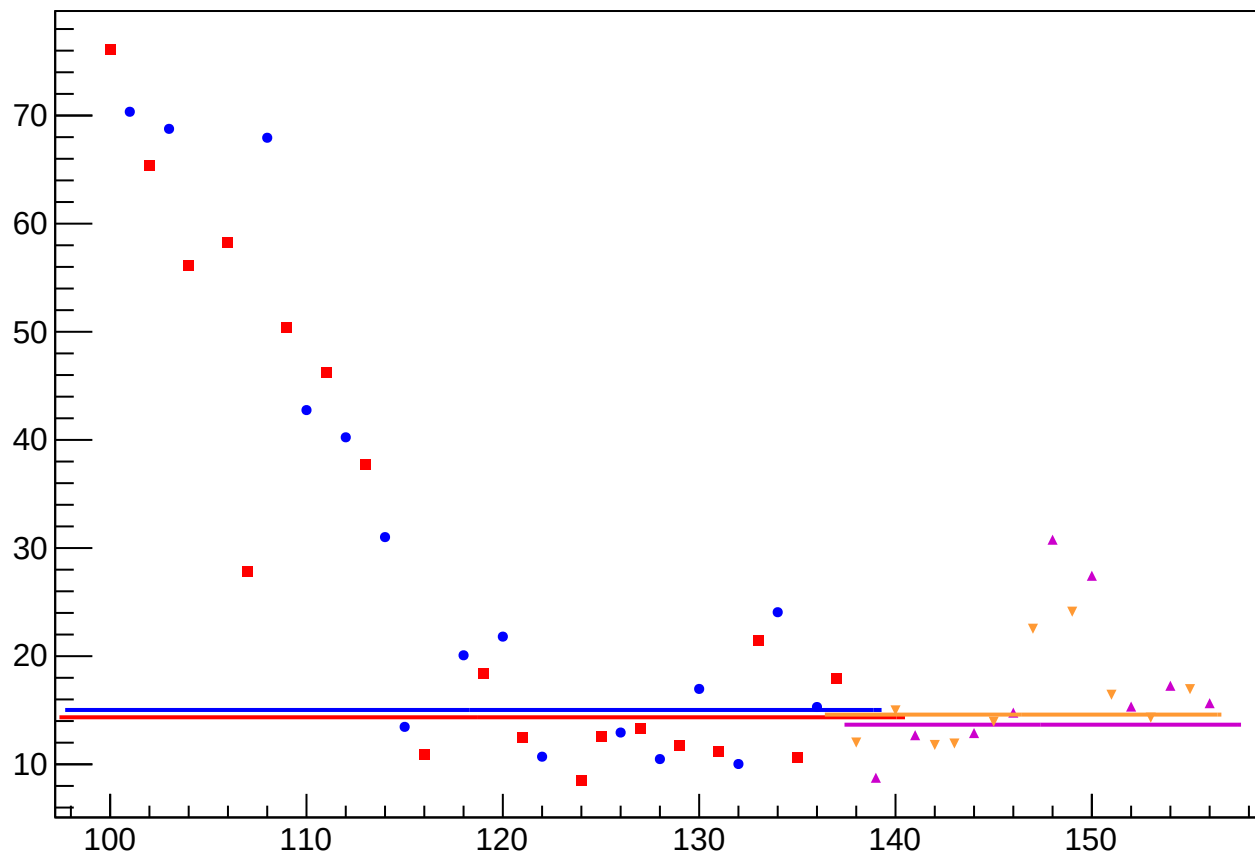
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.007 ± 0.004 $\chi^2/\text{NDF}: 30.2/24$

Out: -0.001 ± 0.004 $\chi^2/\text{NDF}: 24.1/28$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 55.4/53$

asym_sam1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026+/-0.005 χ^2/NDF : 3438260.9/15

Left Out: 14.597+/-0.004 χ^2/NDF : 698022.6/9

Right Out: 14.348+/-0.005 χ^2/NDF : 3629014.9/18

Left In: 13.664+/-0.004 χ^2/NDF : 1578449.4/8

Left: 14.118+/-0.003 χ^2/NDF : 2306281.7/18

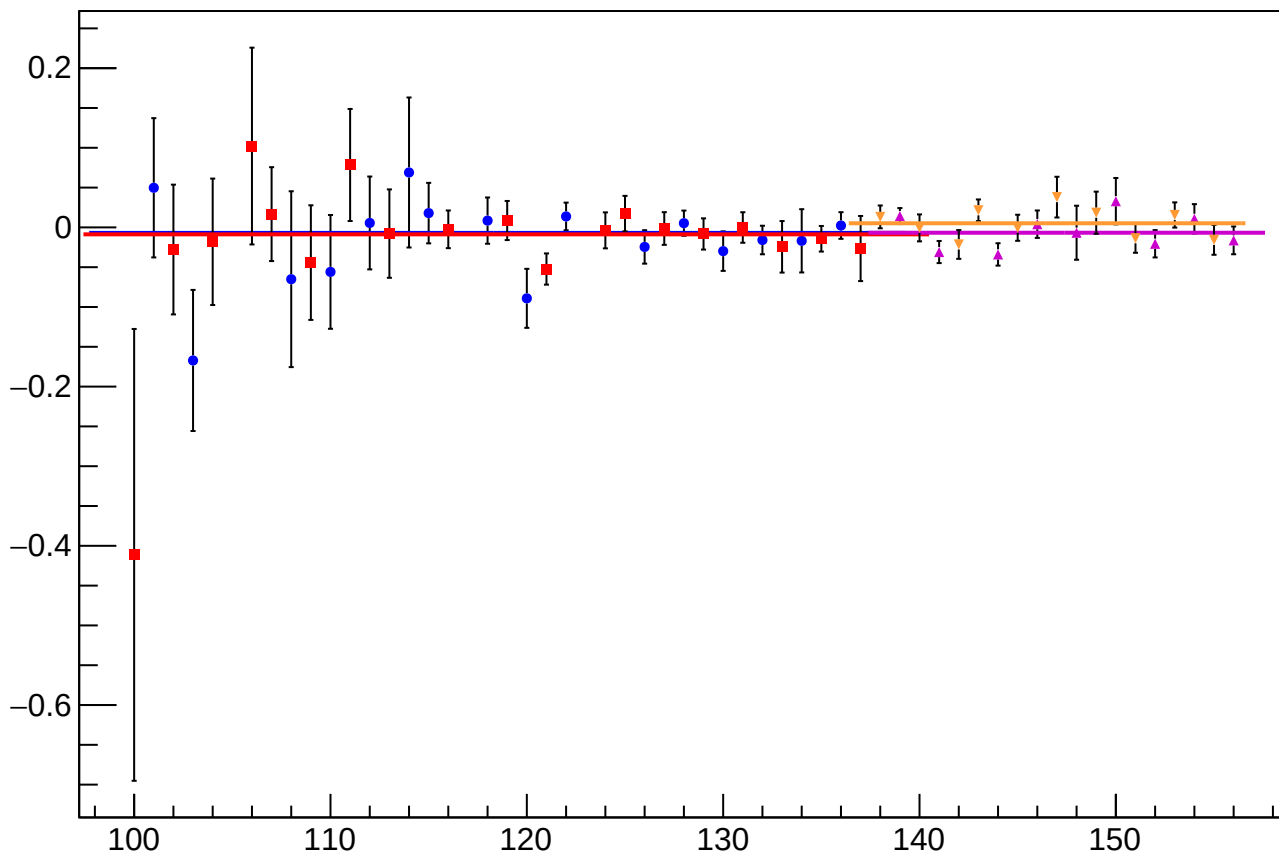
Right: 14.669+/-0.003 χ^2/NDF : 7077933.0/34

In: 14.189+/-0.003 χ^2/NDF : 5066993.2/24

Out: 14.492+/-0.003 χ^2/NDF : 4328787.6/28

All: 14.341+/-0.002 χ^2/NDF : 9401061.2/53

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: 0.005 ± 0.005 $\chi^2/\text{NDF}: 8.8/9$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.007 ± 0.005 $\chi^2/\text{NDF}: 15.2/8$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 26.4/18$

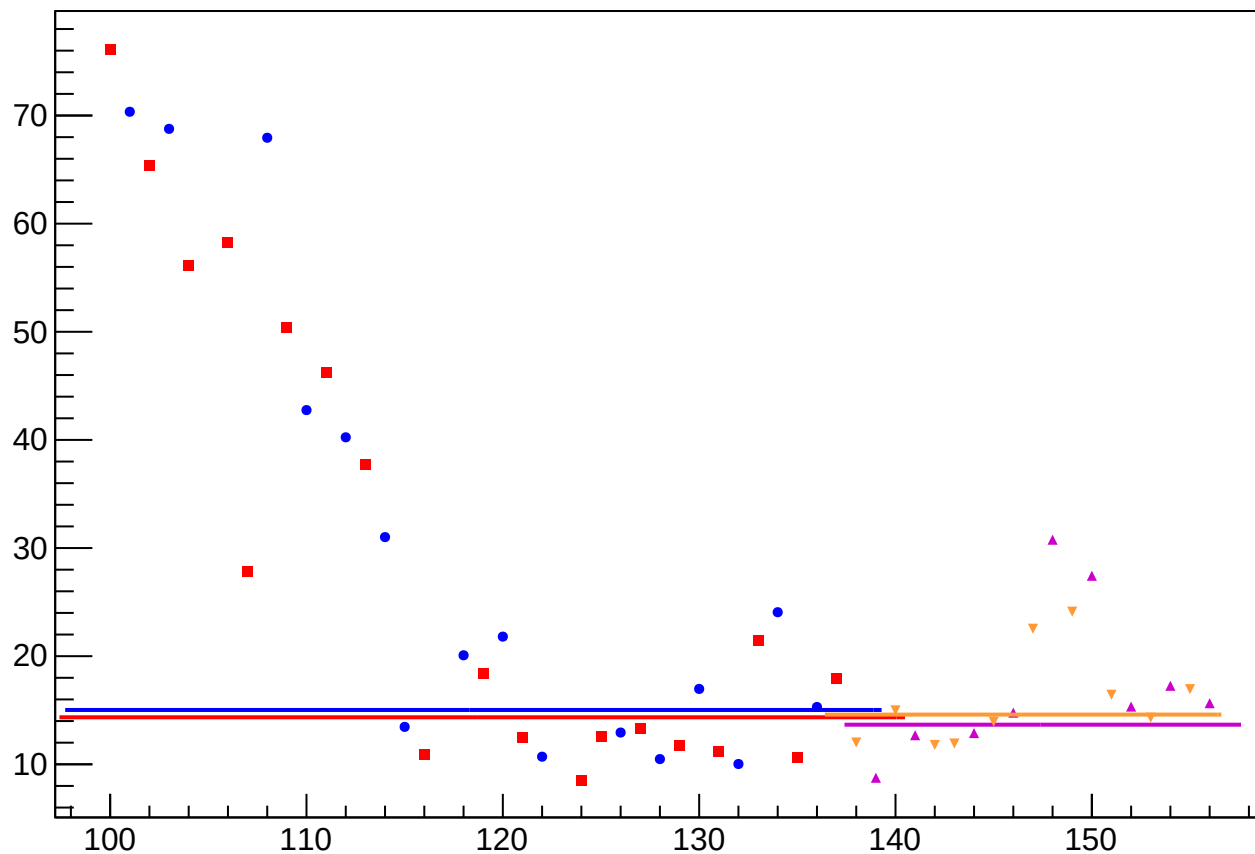
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.007 ± 0.004 $\chi^2/\text{NDF}: 30.2/24$

Out: -0.001 ± 0.004 $\chi^2/\text{NDF}: 24.1/28$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 55.4/53$

asym_sam1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026+/-0.005 χ^2/NDF : 3438260.9/15

Left Out: 14.597+/-0.004 χ^2/NDF : 698022.6/9

Right Out: 14.348+/-0.005 χ^2/NDF : 3629014.9/18

Left In: 13.664+/-0.004 χ^2/NDF : 1578449.4/8

Left: 14.118+/-0.003 χ^2/NDF : 2306281.7/18

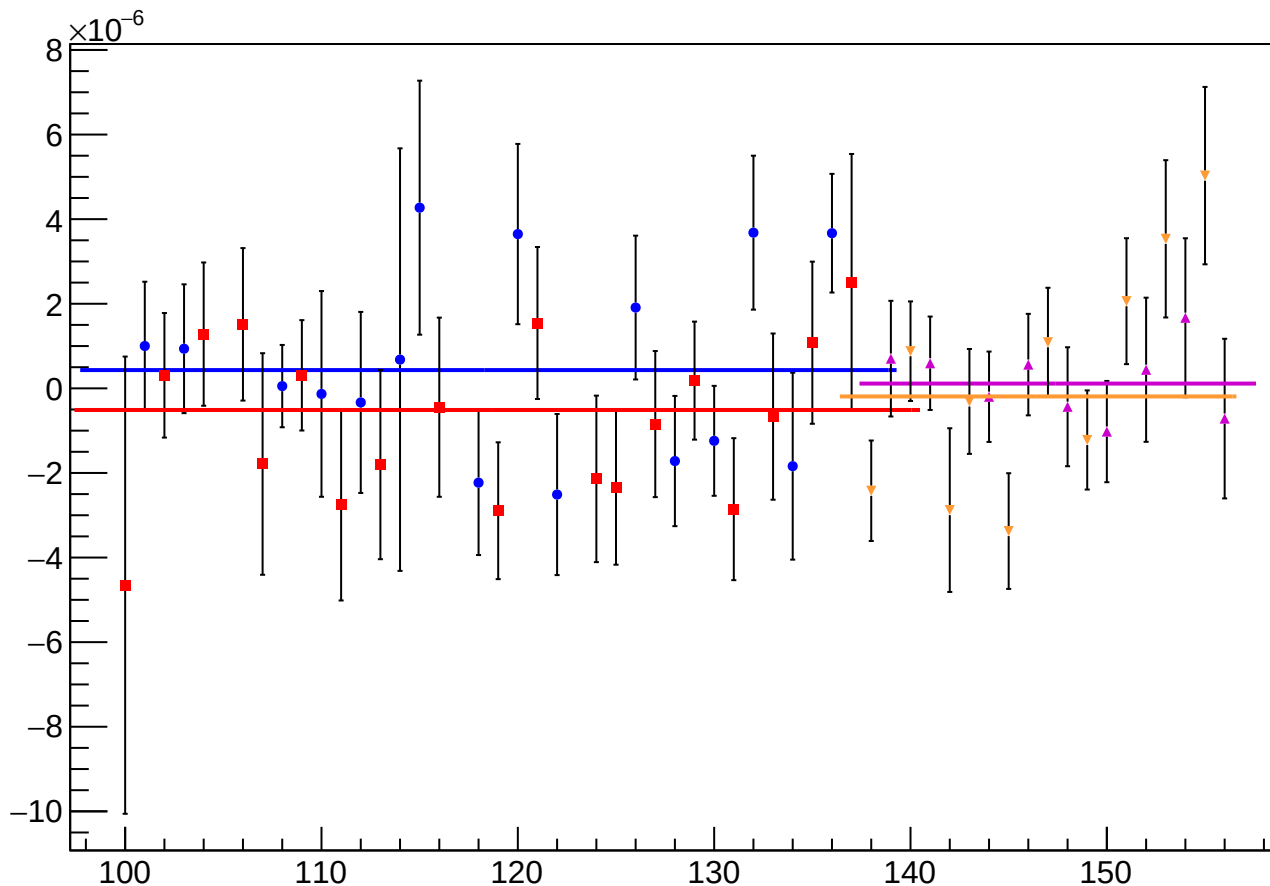
Right: 14.669+/-0.003 χ^2/NDF : 7077933.0/34

In: 14.189+/-0.003 χ^2/NDF : 5066993.2/24

Out: 14.492+/-0.003 χ^2/NDF : 4328787.6/28

All: 14.341+/-0.002 χ^2/NDF : 9401061.2/53

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 : 26.0/9

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.6/8

Left: -0.000+/-0.000 χ^2/NDF : 28.8/18

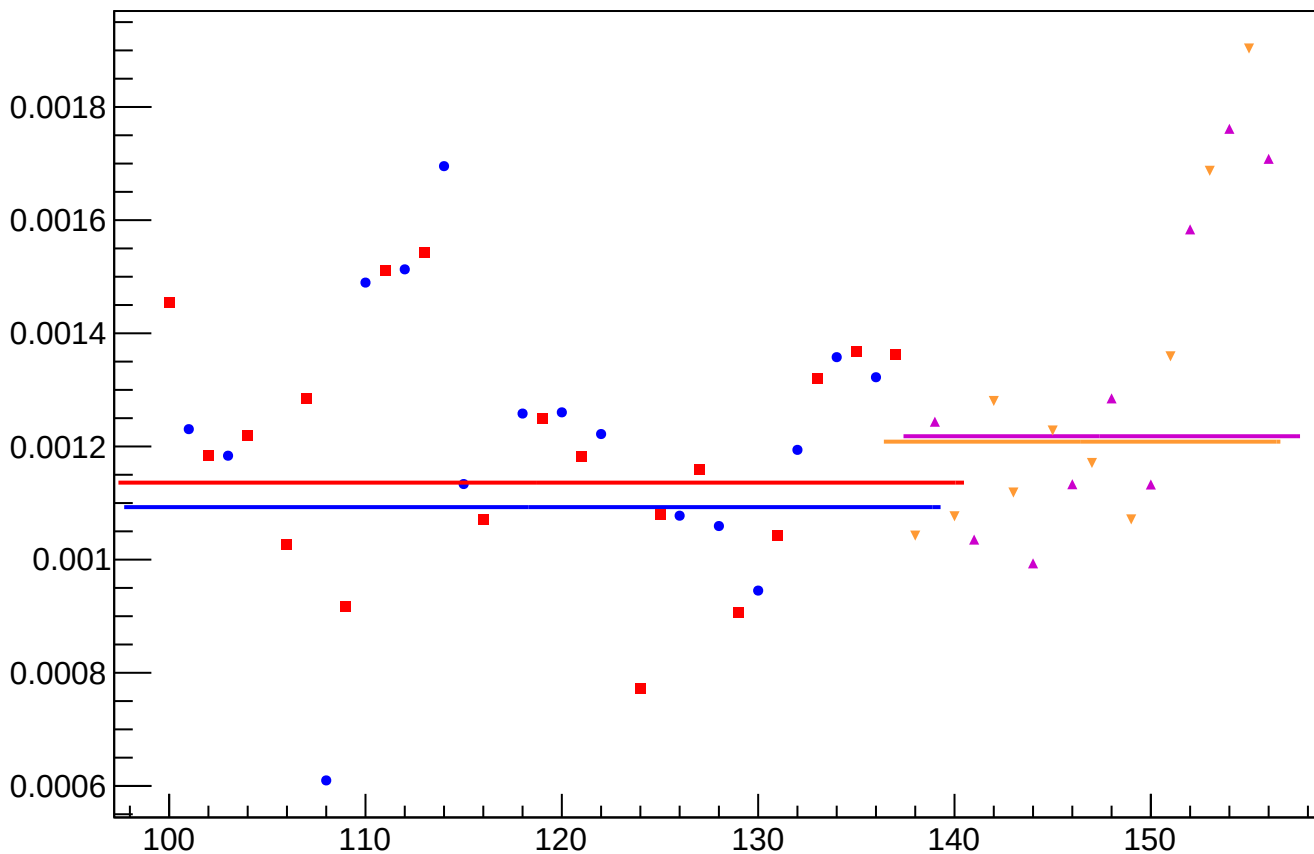
Right: -0.000+/-0.000 χ^2/NDF : 40.0/34

In: 0.000+/-0.000 χ^2/NDF : 26.1/24

Out: -0.000+/-0.000 χ^2/NDF : 40.5/28

All: -0.000+/-0.000 χ^2/NDF : 68.8/53

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 : 479792.4/9

Right Out: 0.001+/-0.000 χ^2/NDF : 407257.8/18

Left In: 0.001+/-0.000 χ^2/NDF : 563025.0/8

Left: 0.001+/-0.000 χ^2/NDF : 1043286.0/18

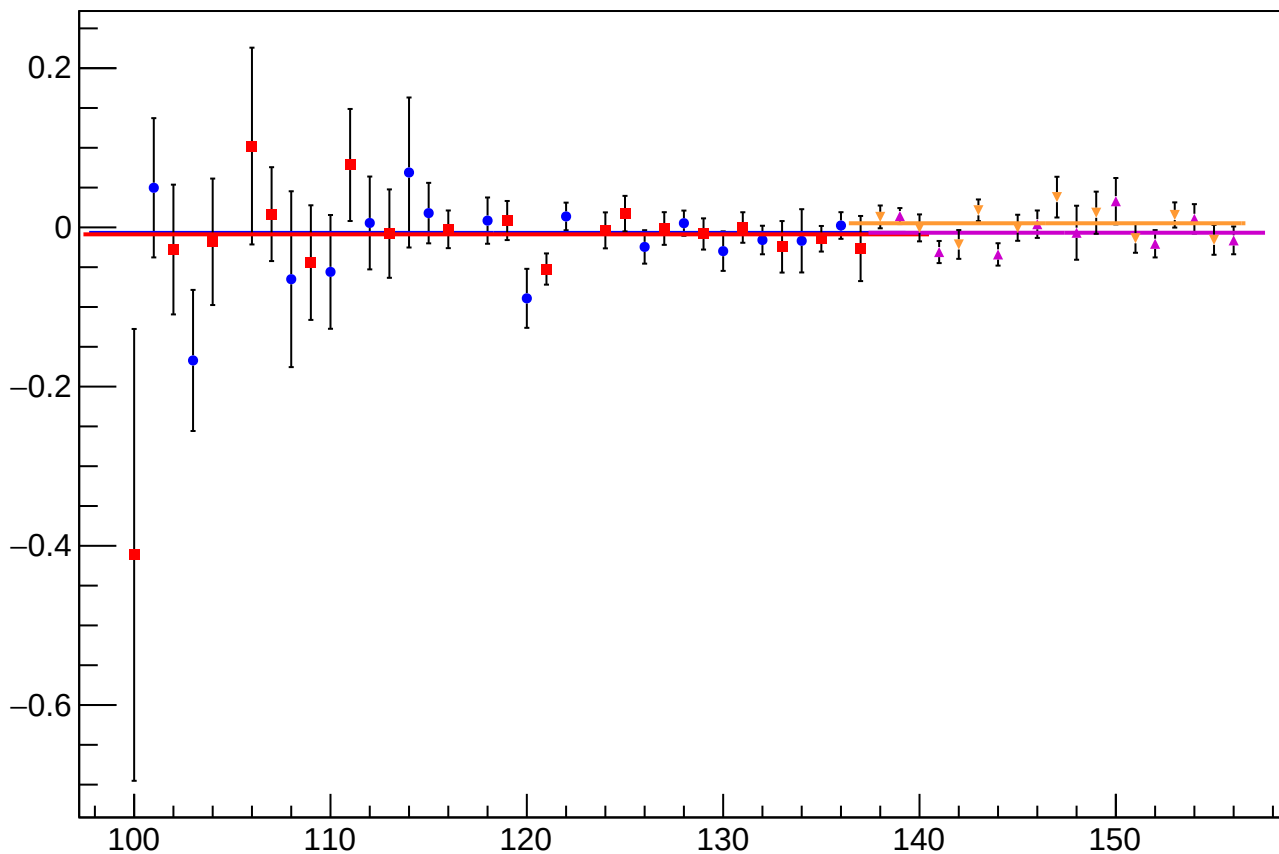
Right: 0.001+/-0.000 χ^2/NDF : 1249651.9/34

In: 0.001+/-0.000 χ^2/NDF : 1478634.6/24

Out: 0.001+/-0.000 χ^2/NDF : 915274.4/28

All: 0.001+/-0.000 χ^2/NDF : 2397855.4/53

asym_sam1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 0.005 ± 0.005 $\chi^2/\text{NDF}: 8.8/9$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.007 ± 0.005 $\chi^2/\text{NDF}: 15.2/8$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 26.4/18$

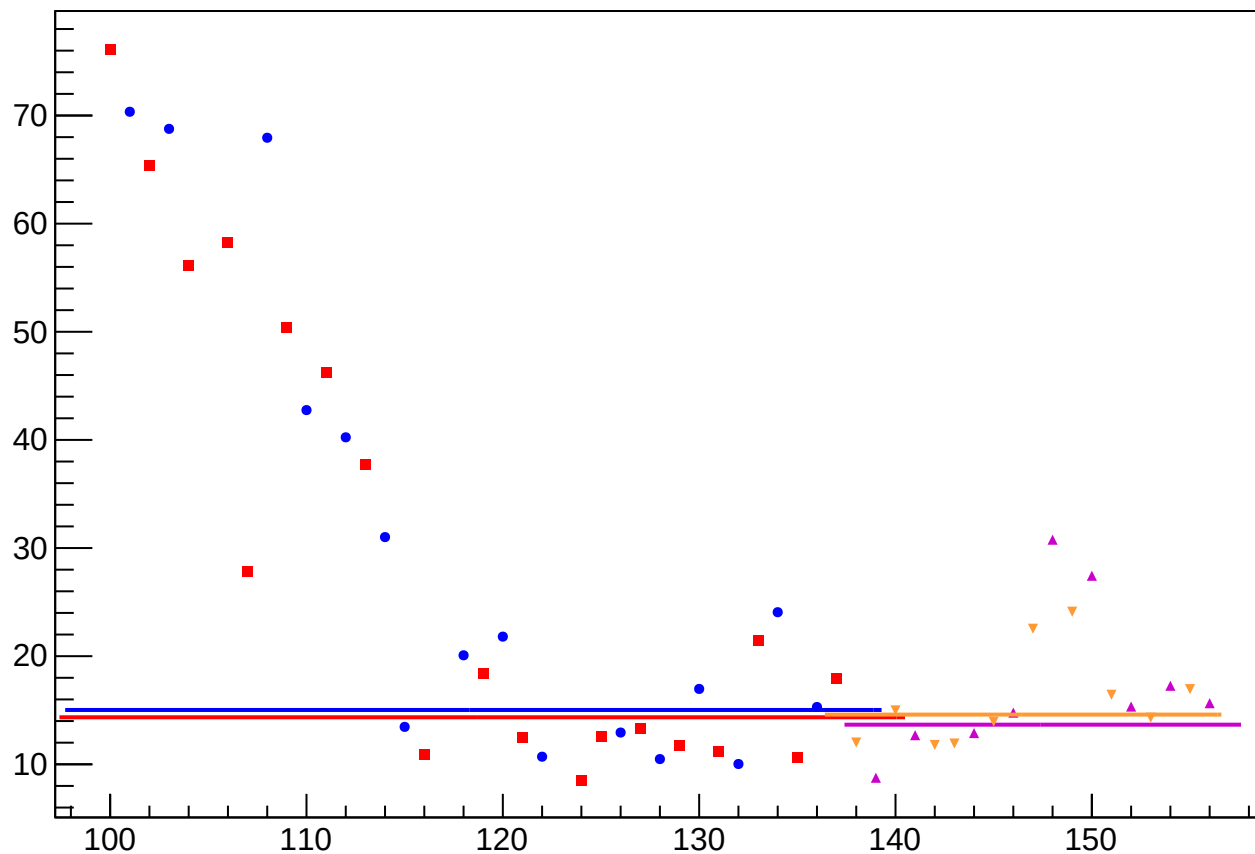
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.007 ± 0.004 $\chi^2/\text{NDF}: 30.2/24$

Out: -0.001 ± 0.004 $\chi^2/\text{NDF}: 24.1/28$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 55.4/53$

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: 14.597+/-0.004 χ^2/NDF : 698014.9/9

Right Out: 14.348+/-0.005 χ^2/NDF : 3629004.9/18

Left In: 13.664+/-0.004 χ^2/NDF : 1578485.1/8

Left: 14.118+/-0.003 χ^2/NDF : 2306312.6/18

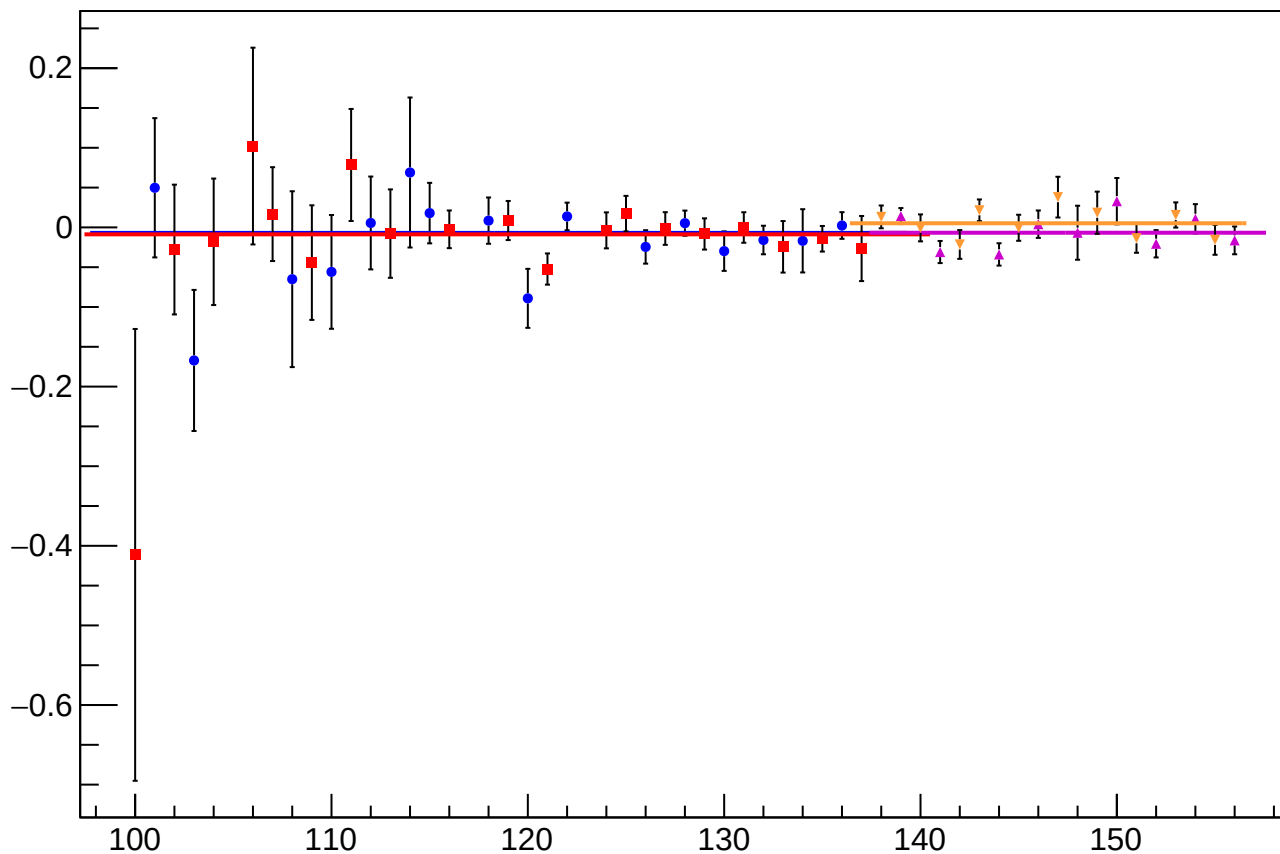
Right: 14.669+/-0.003 χ^2/NDF : 7077938.8/34

In: 14.189+/-0.003 χ^2/NDF : 5067032.2/24

Out: 14.491+/-0.003 χ^2/NDF : 4328772.3/28

All: 14.341+/-0.002 χ^2/NDF : 9401086.6/53

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: 0.005 ± 0.005 $\chi^2/\text{NDF}: 8.8/9$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.007 ± 0.005 $\chi^2/\text{NDF}: 15.2/8$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 26.4/18$

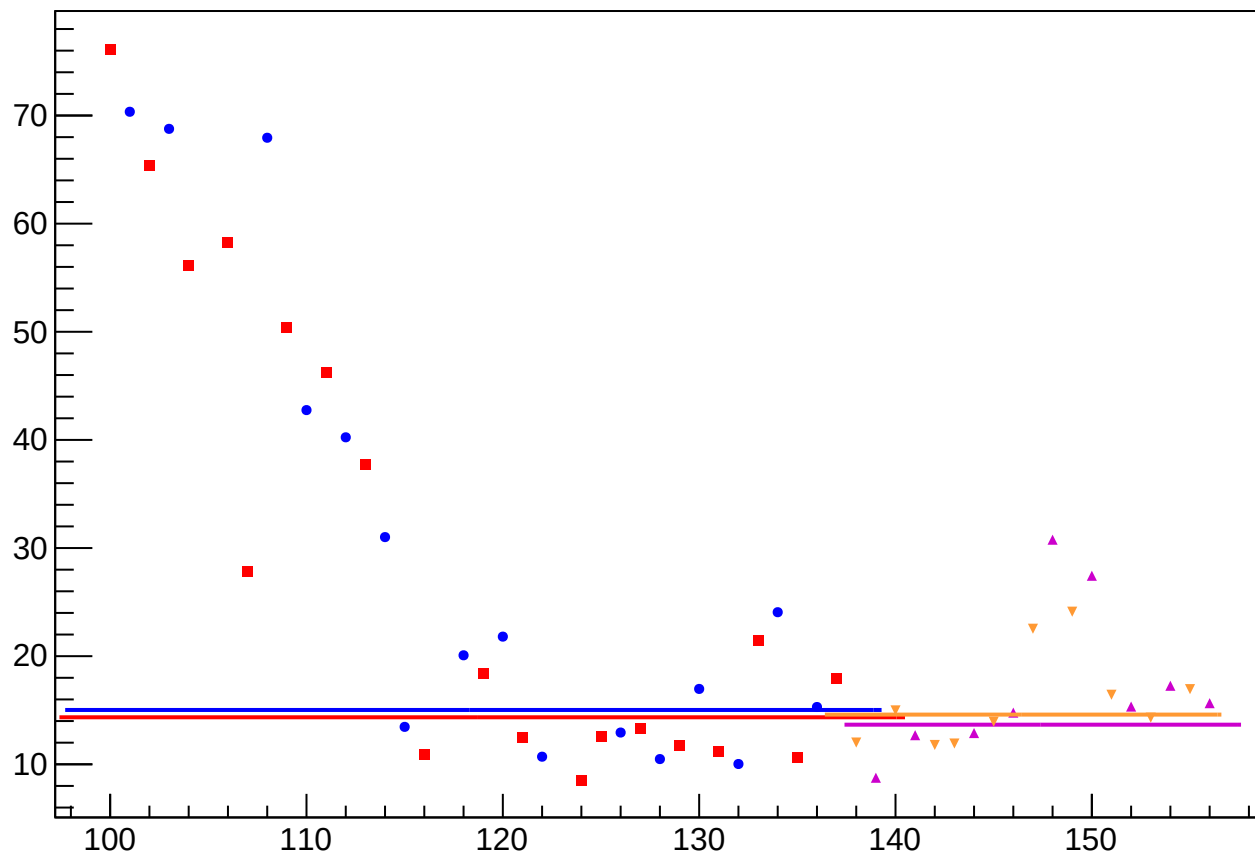
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.007 ± 0.004 $\chi^2/\text{NDF}: 30.2/24$

Out: -0.001 ± 0.004 $\chi^2/\text{NDF}: 24.1/28$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 55.4/53$

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: 14.597+/-0.004 χ^2/NDF : 698014.9/9

Right Out: 14.348+/-0.005 χ^2/NDF : 3629004.9/18

Left In: 13.664+/-0.004 χ^2/NDF : 1578485.1/8

Left: 14.118+/-0.003 χ^2/NDF : 2306312.6/18

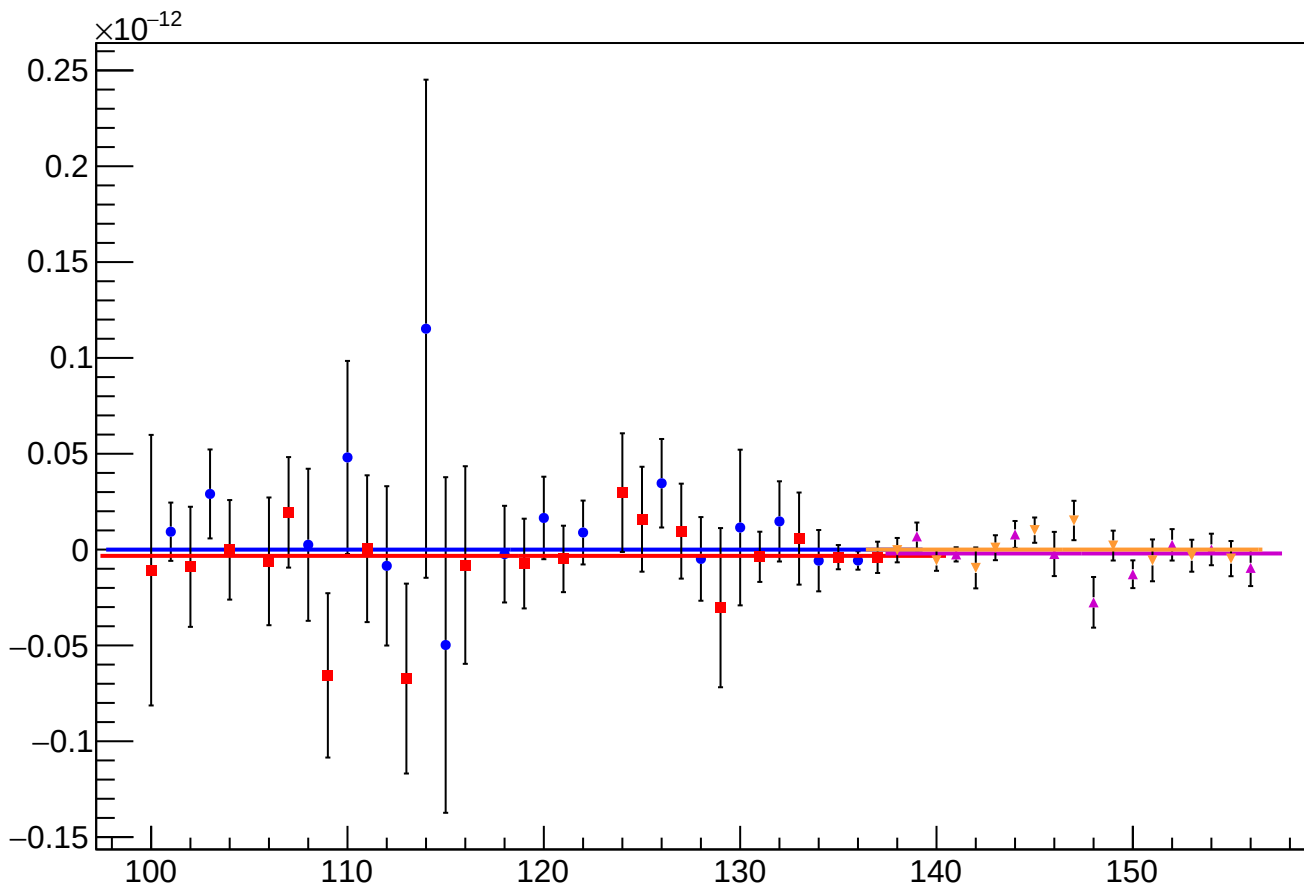
Right: 14.669+/-0.003 χ^2/NDF : 7077938.8/34

In: 14.189+/-0.003 χ^2/NDF : 5067032.2/24

Out: 14.491+/-0.003 χ^2/NDF : 4328772.3/28

All: 14.341+/-0.002 χ^2/NDF : 9401086.6/53

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 : 7.2/9

Right Out: -0.000+/-0.000 χ^2/NDF : 7.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 10.5/8

Left: -0.000+/-0.000 χ^2/NDF : 18.1/18

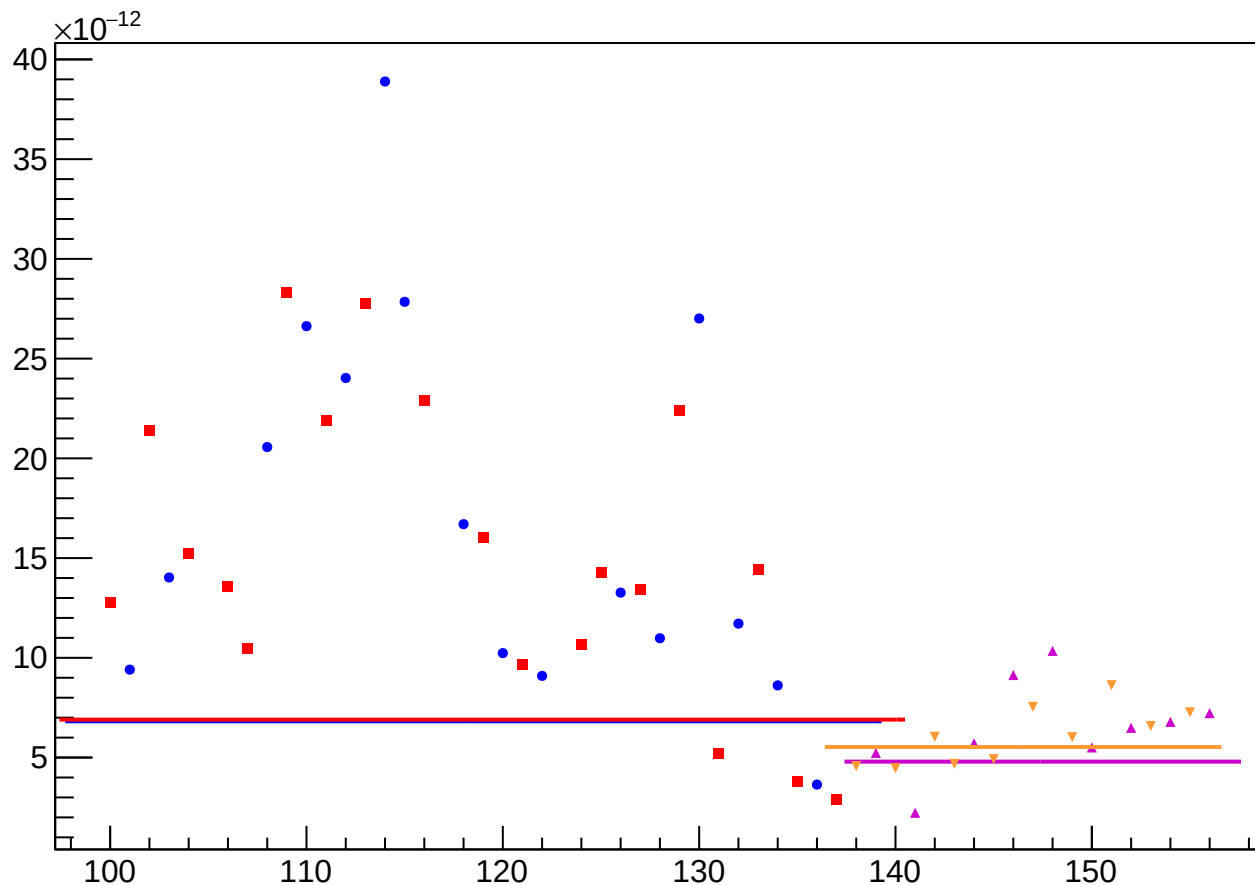
Right: -0.000+/-0.000 χ^2/NDF : 16.7/34

In: -0.000+/-0.000 χ^2/NDF : 20.0/24

Out: -0.000+/-0.000 χ^2/NDF : 14.7/28

All: -0.000+/-0.000 χ^2/NDF : 34.8/53

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 : 526532.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4241227.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1988645.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2611662.9/18

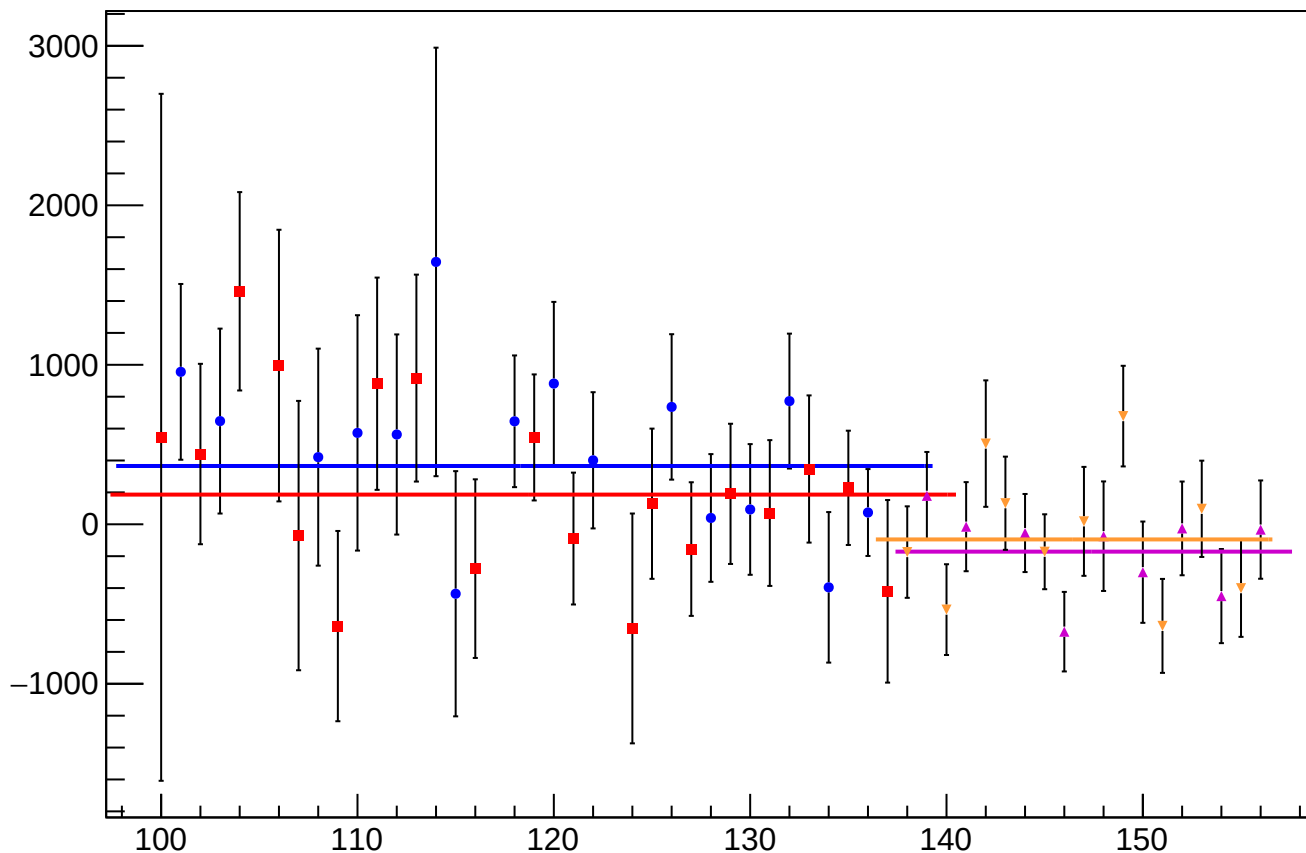
Right: 0.000+/-0.000 χ^2/NDF : 7753131.5/34

In: 0.000+/-0.000 χ^2/NDF : 5913802.1/24

Out: 0.000+/-0.000 χ^2/NDF : 4945142.8/28

All: 0.000+/-0.000 χ^2/NDF : 10933523.2/53

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.540 $\pm$ 118.873 χ^2 /NDF: 11.5/15

Left Out: -94.942 $\pm$ 94.259 χ^2 /NDF:16.4/9

Right Out: 186.141 $\pm$ 120.188 χ^2 /NDF: 15.0/18

Left In: -171.524 $\pm$ 95.006 χ^2 /NDF:7.8/8

Left: -132.931 $\pm$ 66.914 χ^2 /NDF: 24.5/18

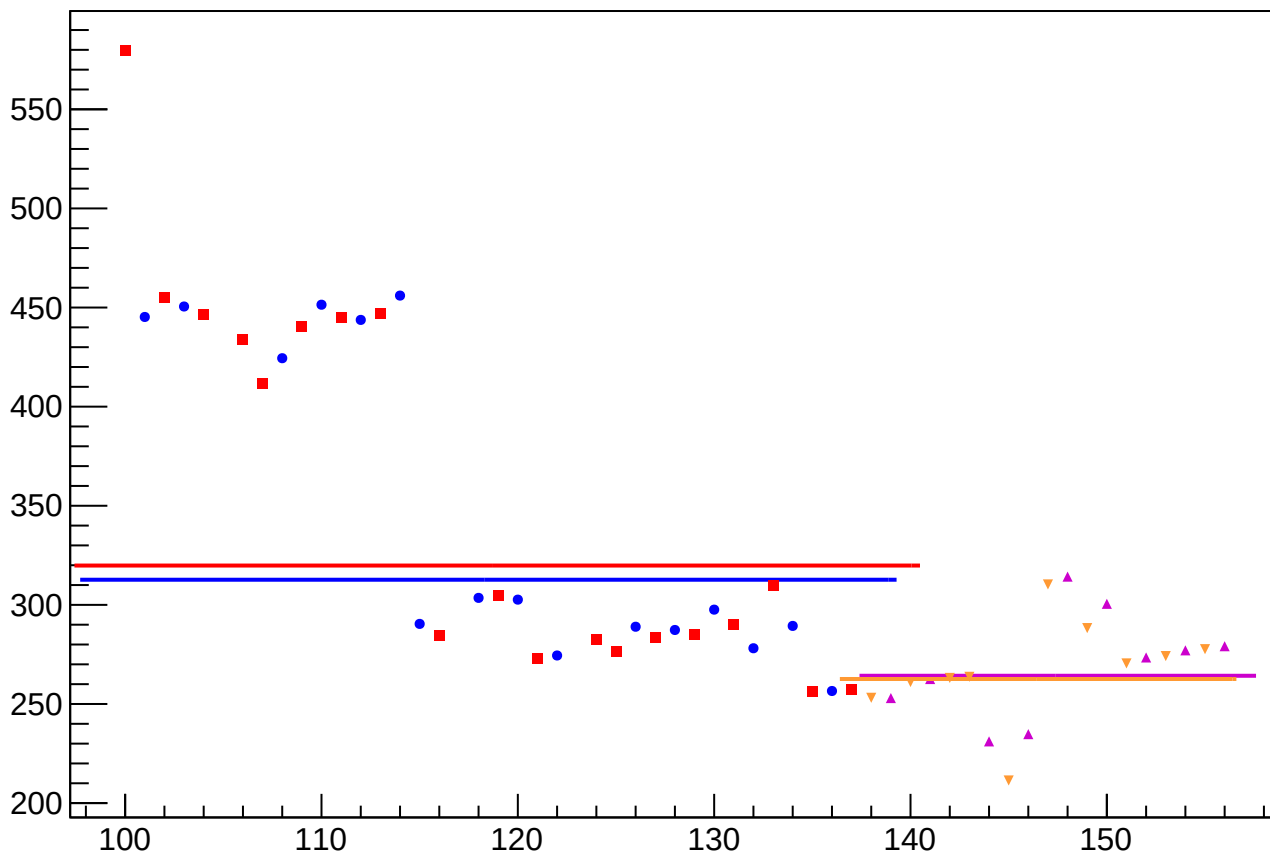
Right: 276.827 $\pm$ 84.517 χ^2 /NDF: 27.6/34

In: 37.813 $\pm$ 74.215 χ^2 /NDF:31.7/24

Out: 12.103 $\pm$ 74.170 χ^2 /NDF:34.8/28

All: 24.950 $\pm$ 52.462 χ^2 /NDF: 66.6/53

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683 $\pm$ 0.084 χ^2 /NDF: 602207.7/15

Left Out: 262.607 $\pm$ 0.067 χ^2 /NDF:158754.2/9

Right Out: 319.841 $\pm$ 0.085 χ^2 /NDF: 697878.1/18

Left In: 264.236 $\pm$ 0.067 χ^2 /NDF:146844.6/8

Left: 263.415 $\pm$ 0.047 χ^2 /NDF: 305894.9/18

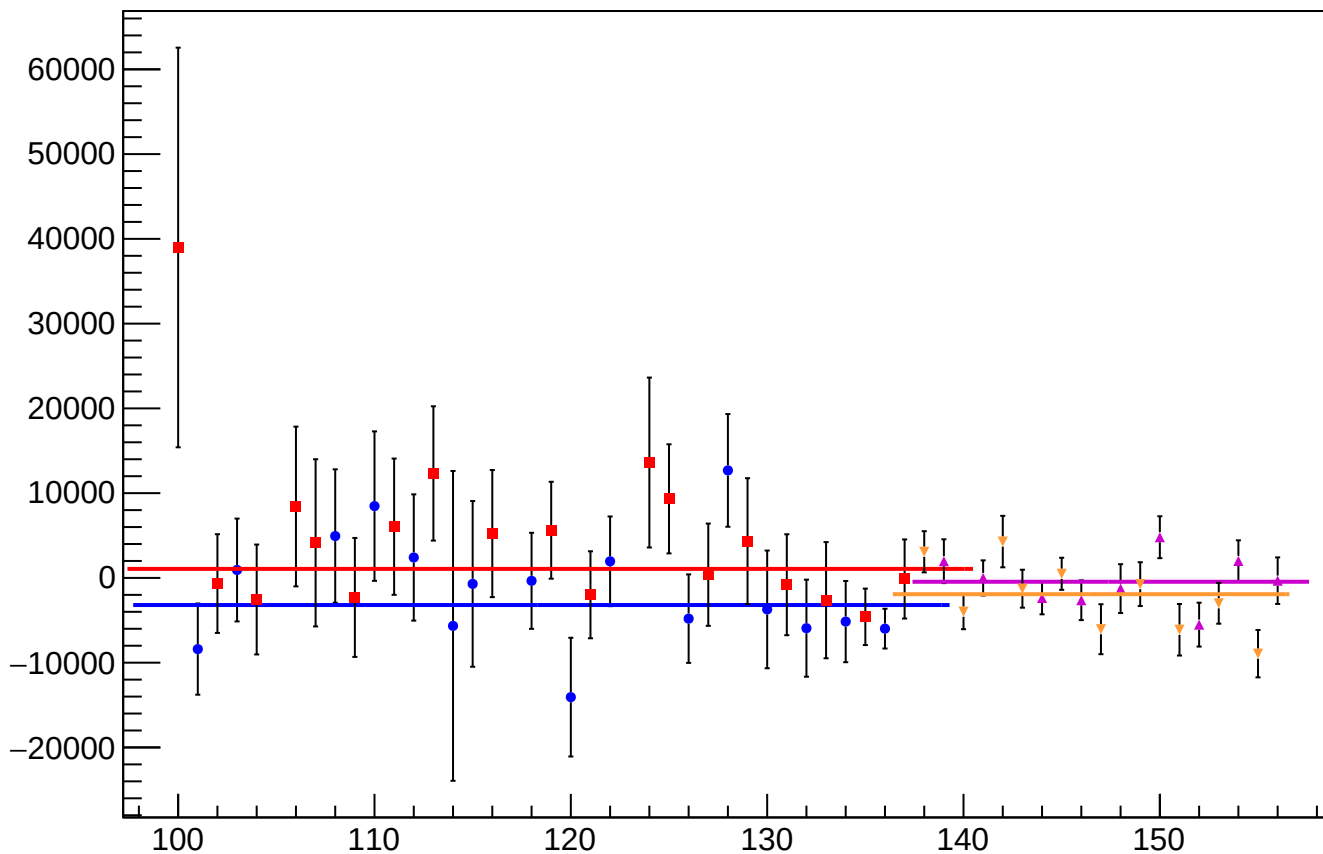
Right: 316.222 $\pm$ 0.060 χ^2 /NDF: 1303671.7/34

In: 283.119 $\pm$ 0.052 χ^2 /NDF:951767.2/24

Out: 284.404 $\pm$ 0.052 χ^2 /NDF:1137445.1/28

All: 283.762 $\pm$ 0.037 χ^2 /NDF: 2089512.0/53

asym_sam2_reg_correction_mean vs Slug, Sign Corrected



Right In: -3198.742 $\pm$ 1353.814 χ^2 /NDF: 16.1/15

Left Out: -1919.358 $\pm$ 775.246 χ^2 /NDF:21.7/9

Right Out: 1065.939 $\pm$ 1443.326 χ^2 /NDF: 14.4/18

Left In: -452.942 $\pm$ 798.775 χ^2 /NDF:12.2/8

Left: -1208.065 $\pm$ 556.314 χ^2 /NDF: 35.6/18

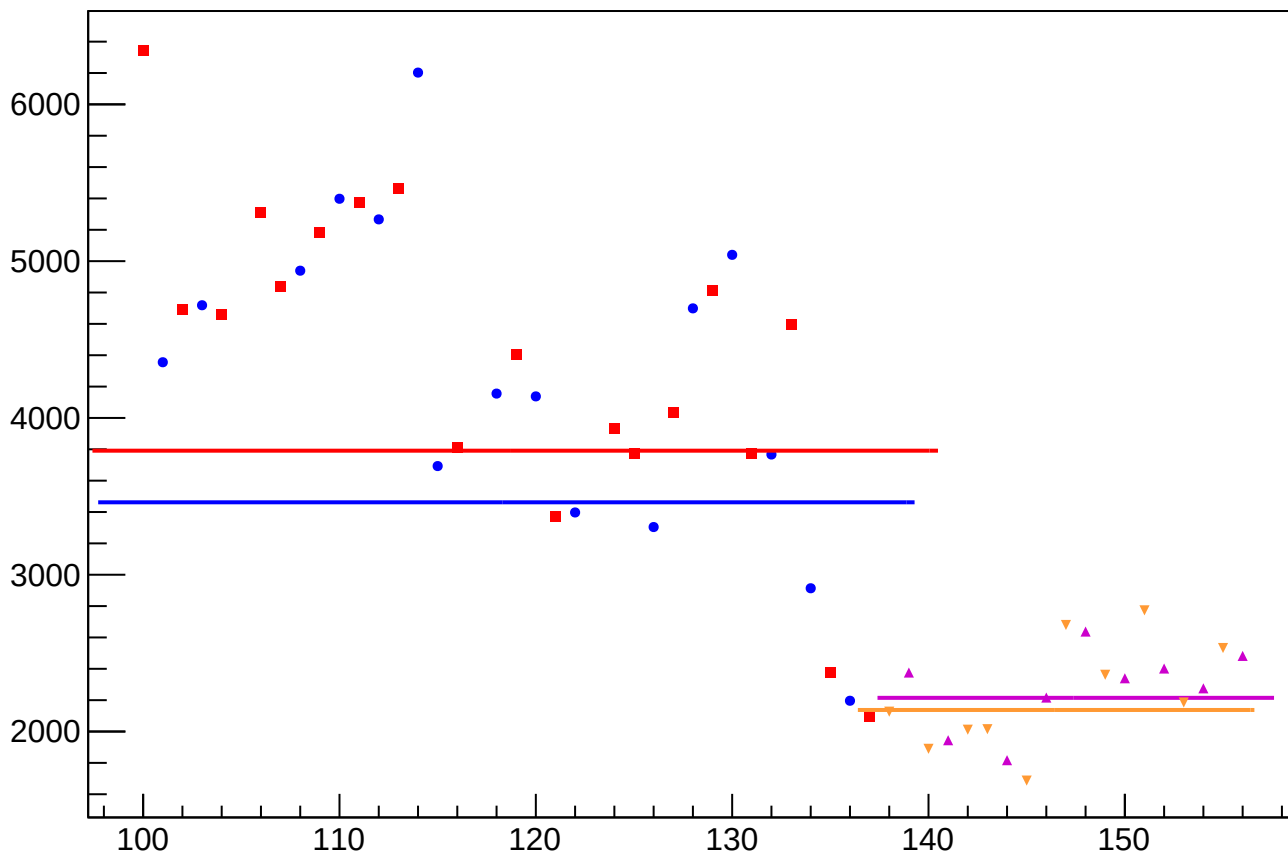
Right: -1202.738 $\pm$ 987.420 χ^2 /NDF: 35.1/34

In: -1161.983 $\pm$ 687.955 χ^2 /NDF:31.4/24

Out: -1250.933 $\pm$ 682.963 χ^2 /NDF:39.4/28

All: -1206.782 $\pm$ 484.683 χ^2 /NDF: 70.8/53

asym_sam2_reg_correction_rms vs Slug, Sign Corrected



Right In: 3461.927 $\pm$ 0.957 χ^2 /NDF: 1309580.1/15

Left Out: 2137.432 $\pm$ 0.548 χ^2 /NDF:362198.2/9

Right Out: 3791.207 $\pm$ 1.021 χ^2 /NDF: 1155755.9/18

Left In: 2214.812 $\pm$ 0.565 χ^2 /NDF:205417.1/8

Left: 2174.966 $\pm$ 0.393 χ^2 /NDF: 577280.3/18

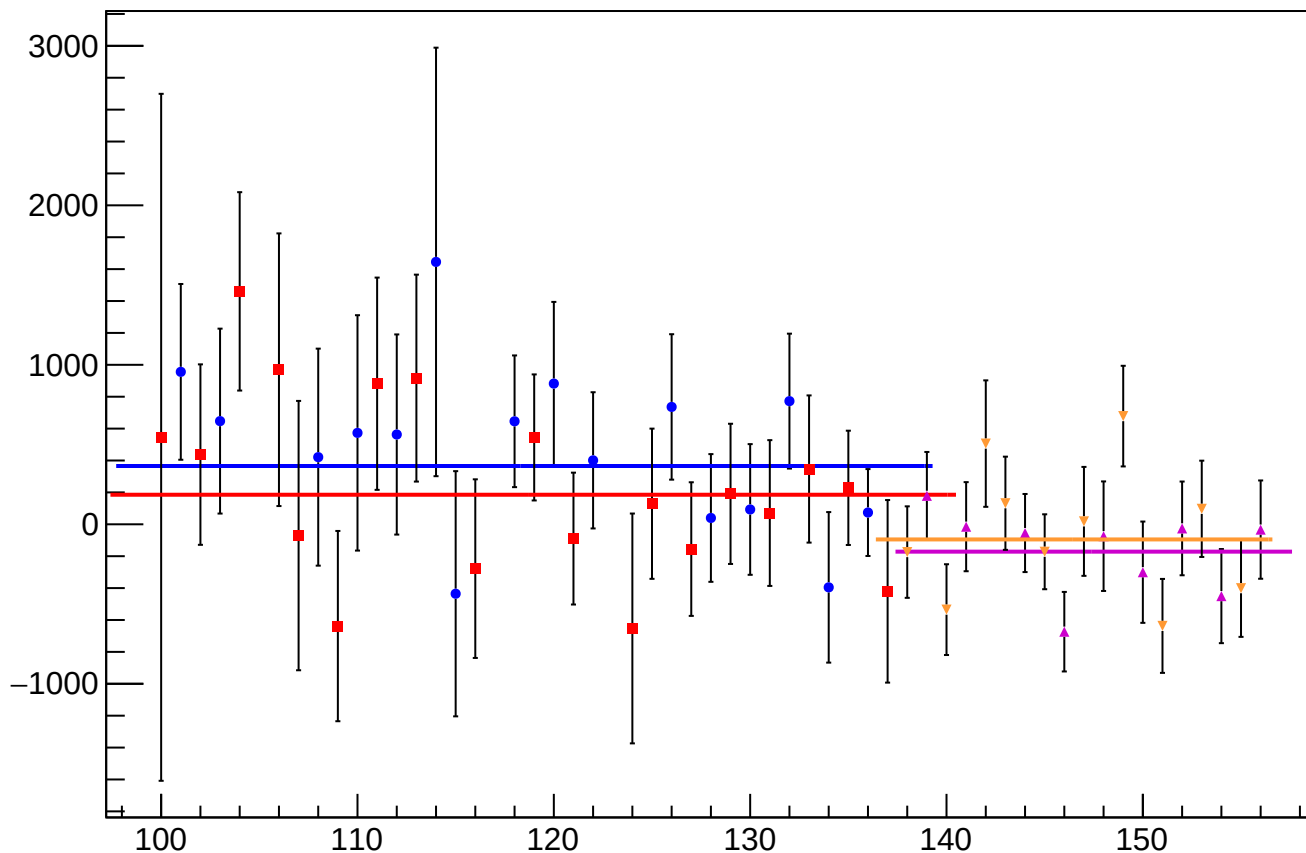
Right: 3616.041 $\pm$ 0.698 χ^2 /NDF: 2520711.5/34

In: 2536.851 $\pm$ 0.486 χ^2 /NDF:2773911.4/24

Out: 2507.722 $\pm$ 0.483 χ^2 /NDF:3555786.7/28

All: 2522.181 $\pm$ 0.343 χ^2 /NDF: 6331504.0/53

cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523 $\pm$ 118.873 χ^2 /NDF: 11.5/15

Left Out: -94.938 $\pm$ 94.259 χ^2 /NDF:16.4/9

Right Out: 185.331 $\pm$ 120.199 χ^2 /NDF: 14.9/18

Left In: -171.522 $\pm$ 95.006 χ^2 /NDF:7.8/8

Left: -132.928 $\pm$ 66.914 χ^2 /NDF: 24.5/18

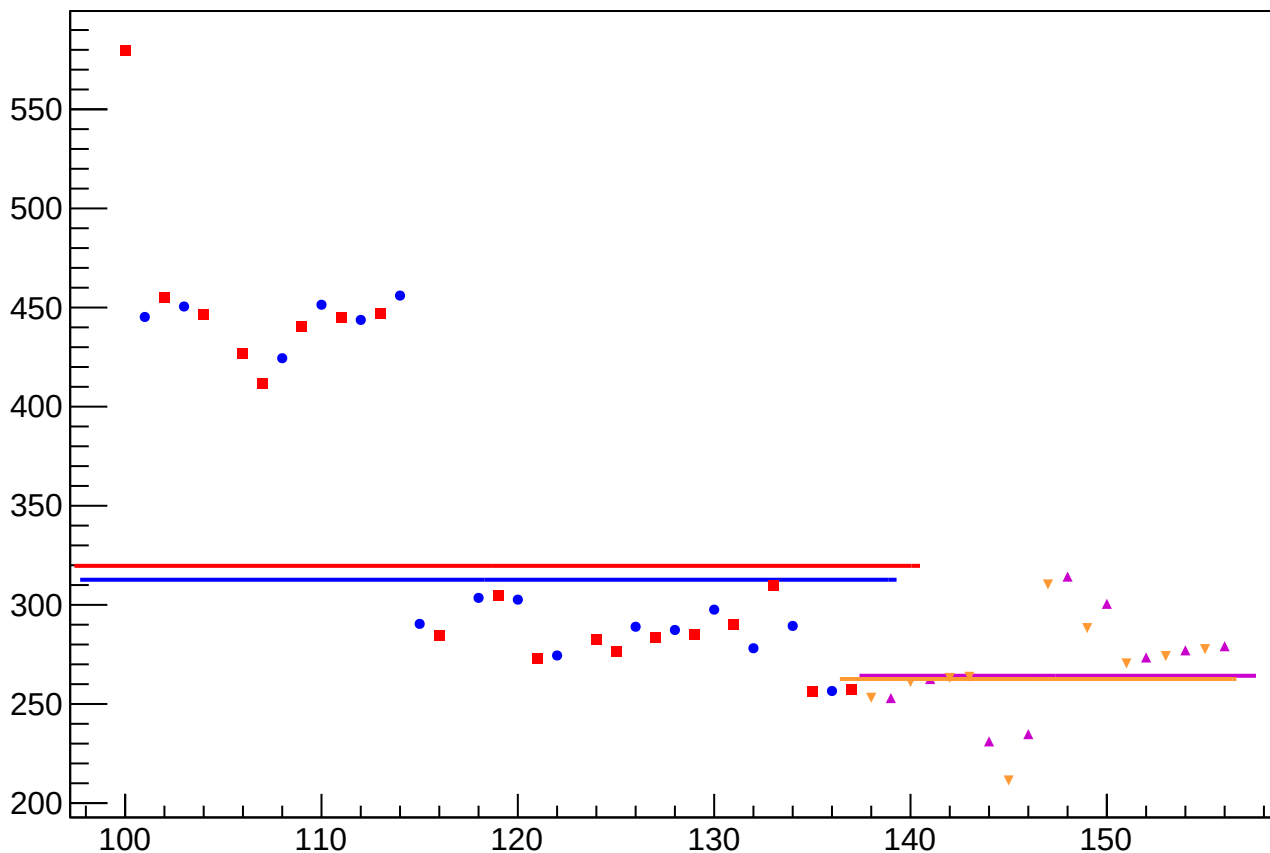
Right: 276.426 $\pm$ 84.521 χ^2 /NDF: 27.6/34

In: 37.808 $\pm$ 74.215 χ^2 /NDF:31.7/24

Out: 11.786 $\pm$ 74.172 χ^2 /NDF:34.7/28

All: 24.789 $\pm$ 52.463 χ^2 /NDF: 66.5/53

cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683 $\pm$ 0.084 χ^2 /NDF: 602209.1/15

Left Out: 262.607 $\pm$ 0.067 χ^2 /NDF:158754.2/9

Right Out: 319.693 $\pm$ 0.085 χ^2 /NDF: 693714.1/18

Left In: 264.236 $\pm$ 0.067 χ^2 /NDF:146844.6/8

Left: 263.415 $\pm$ 0.047 χ^2 /NDF: 305894.9/18

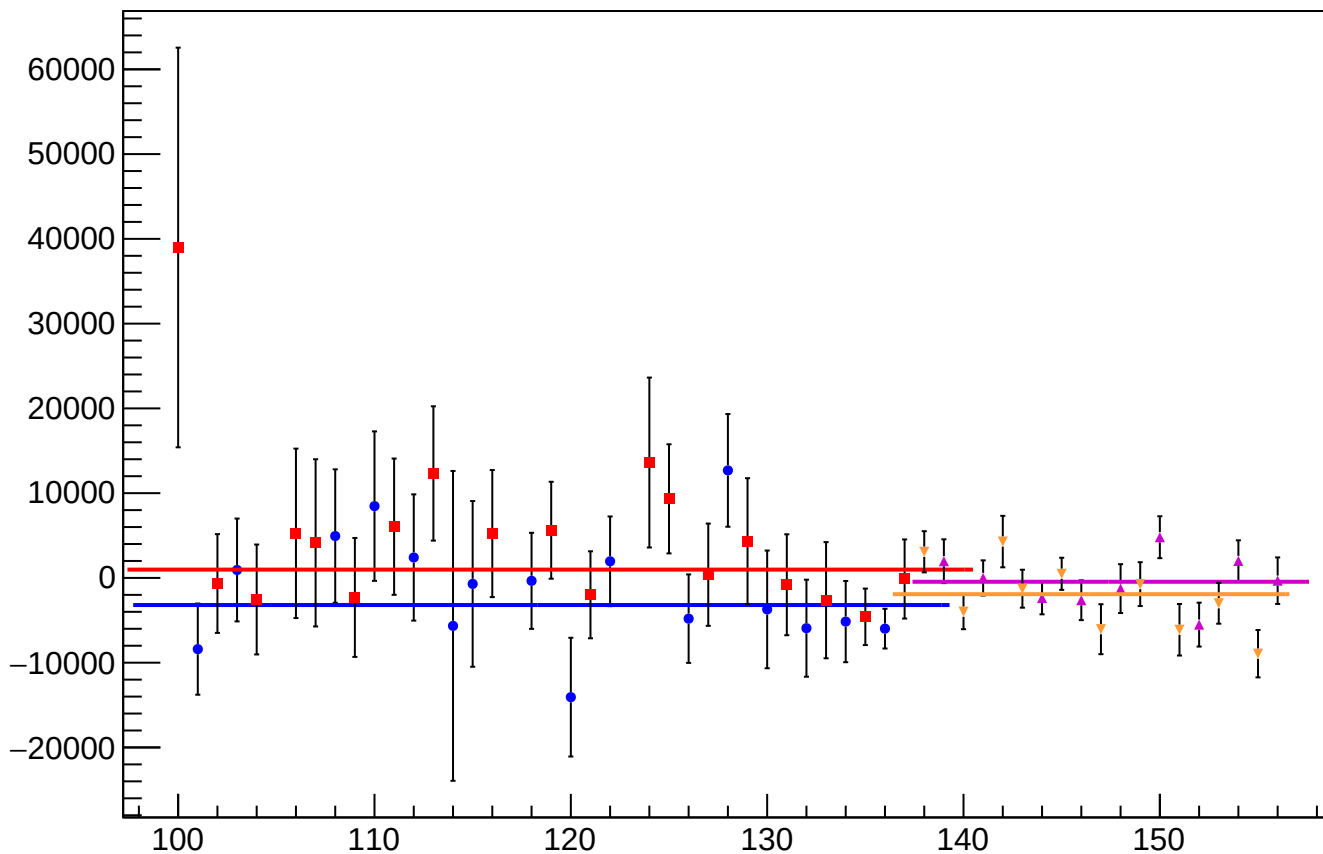
Right: 316.149 $\pm$ 0.060 χ^2 /NDF: 1299362.0/34

In: 283.119 $\pm$ 0.052 χ^2 /NDF:951768.8/24

Out: 284.345 $\pm$ 0.052 χ^2 /NDF:1131797.3/28

All: 283.732 $\pm$ 0.037 χ^2 /NDF: 2083838.9/53

asym_sam2_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673+/-1353.816 χ^2/NDF : 16.1/15

Left Out: -1919.352+/-775.246 χ^2/NDF :21.7/9

Right Out: 980.937+/-1445.265 χ^2/NDF : 14.0/18

Left In: -452.935+/-798.775 χ^2/NDF :12.2/8

Left: -1208.059+/-556.314 χ^2/NDF : 35.6/18

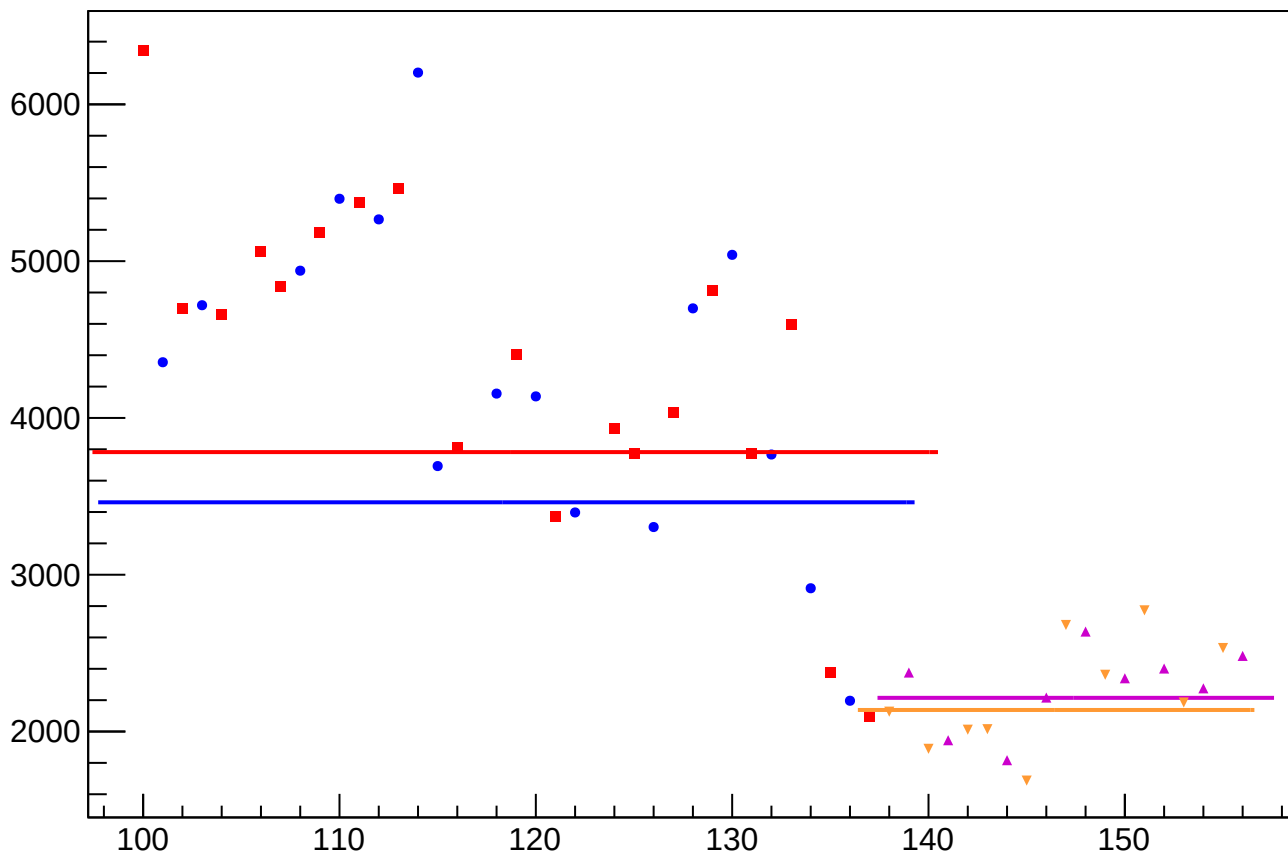
Right: -1245.274+/-988.041 χ^2/NDF : 34.5/34

In: -1161.957+/-687.955 χ^2/NDF :31.4/24

Out: -1271.313+/-683.168 χ^2/NDF :38.8/28

All: -1217.017+/-484.756 χ^2/NDF : 70.1/53

asym_sam2_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932+/-0.957 χ^2/NDF : 1309596.2/15

Left Out: 2137.432+/-0.548 χ^2/NDF : 362199.2/9

Right Out: 3782.176+/-1.022 χ^2/NDF : 1136342.8/18

Left In: 2214.813+/-0.565 χ^2/NDF : 205417.3/8

Left: 2174.966+/-0.393 χ^2/NDF : 577281.7/18

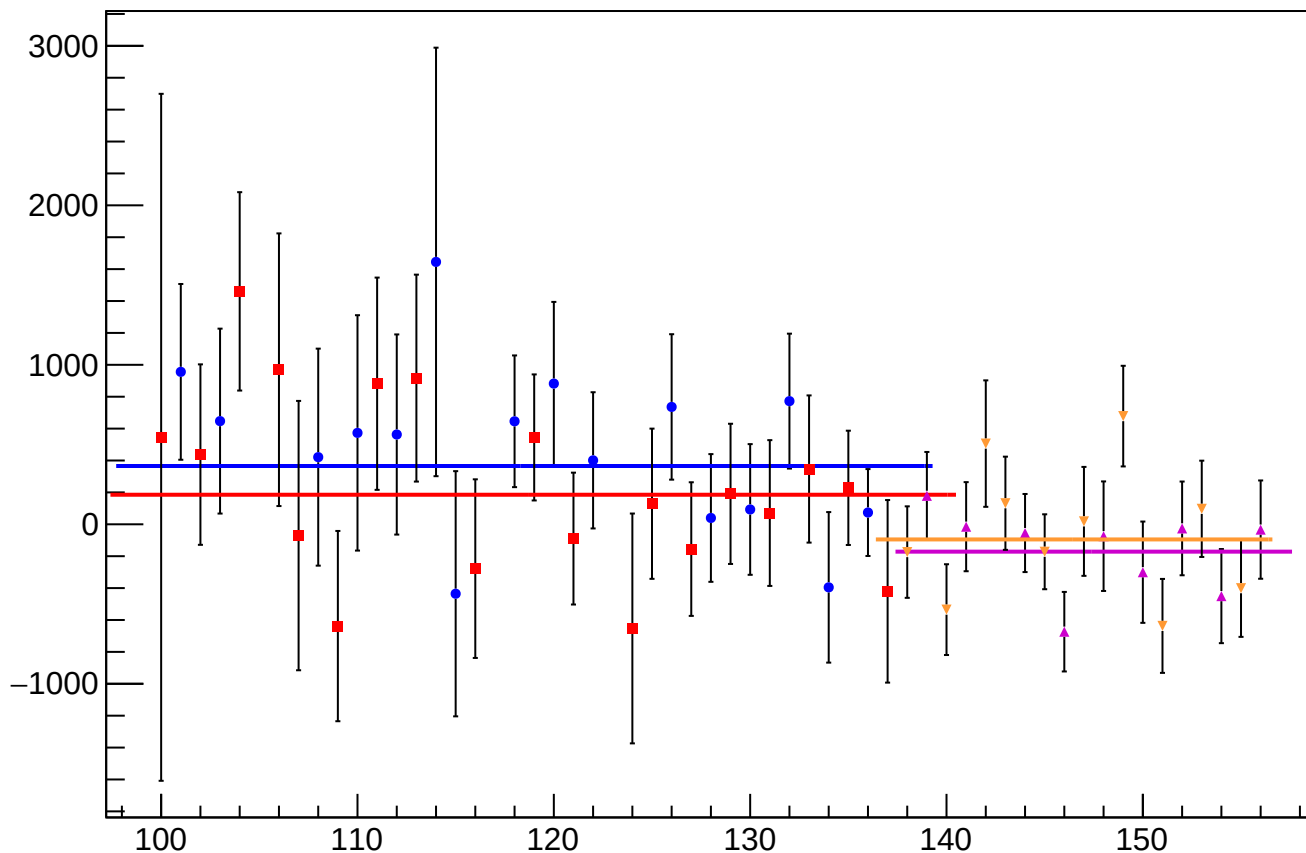
Right: 3611.602+/-0.699 χ^2/NDF : 2498242.4/34

In: 2536.852+/-0.486 χ^2/NDF : 2773931.9/24

Out: 2504.932+/-0.483 χ^2/NDF : 3509983.8/28

All: 2520.781+/-0.343 χ^2/NDF : 6286083.5/53

eigen_cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523 ± 118.873 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -94.938 ± 94.259 $\chi^2/\text{NDF}: 16.4/9$

Right Out: 185.331 ± 120.199 $\chi^2/\text{NDF}: 14.9/18$

Left In: -171.522 ± 95.006 $\chi^2/\text{NDF}: 7.8/8$

Left: -132.928 ± 66.914 $\chi^2/\text{NDF}: 24.5/18$

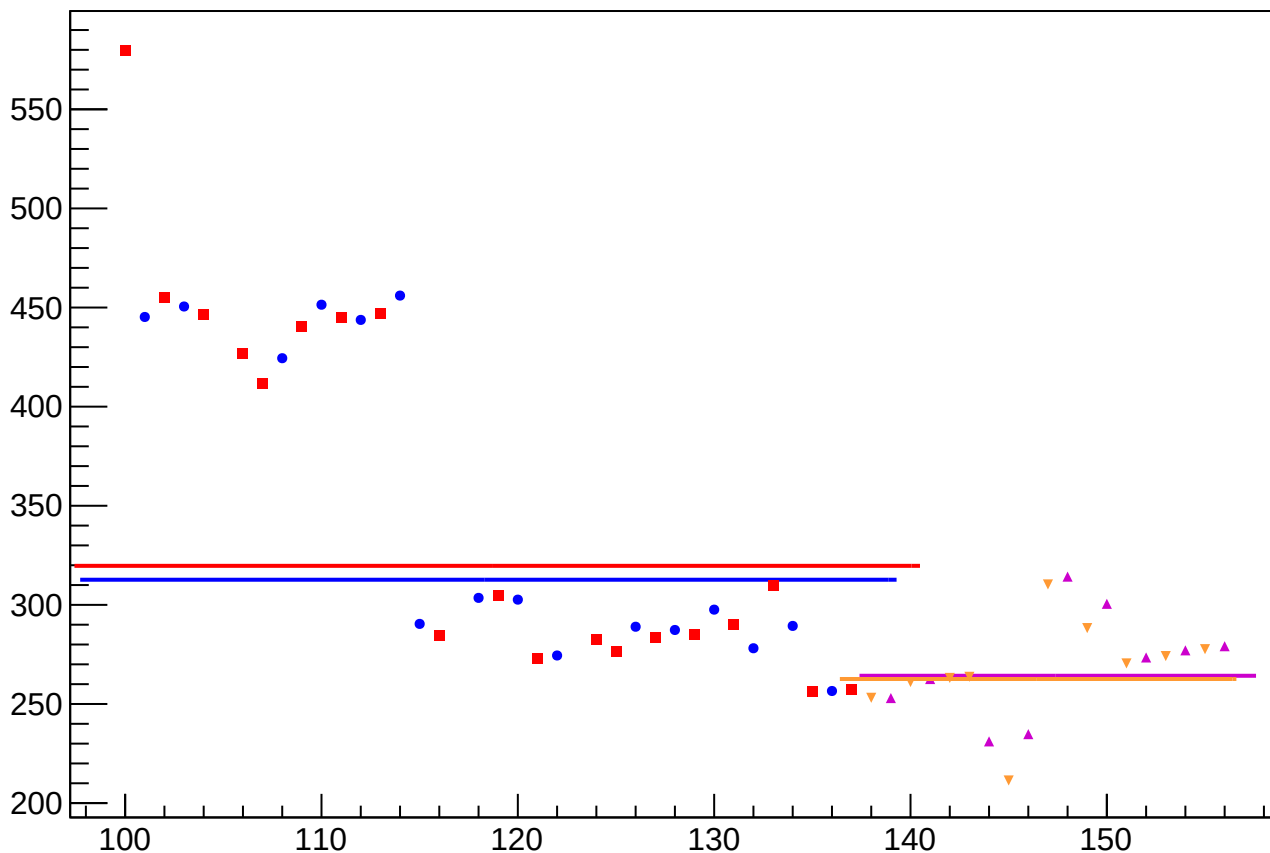
Right: 276.426 ± 84.521 $\chi^2/\text{NDF}: 27.6/34$

In: 37.808 ± 74.215 $\chi^2/\text{NDF}: 31.7/24$

Out: 11.786 ± 74.172 $\chi^2/\text{NDF}: 34.7/28$

All: 24.789 ± 52.463 $\chi^2/\text{NDF}: 66.5/53$

eigen_cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683 $\pm$ 0.084 χ^2 /NDF: 602209.1/15

Left Out: 262.607 $\pm$ 0.067 χ^2 /NDF:158754.2/9

Right Out: 319.693 $\pm$ 0.085 χ^2 /NDF: 693714.1/18

Left In: 264.236 $\pm$ 0.067 χ^2 /NDF:146844.6/8

Left: 263.415 $\pm$ 0.047 χ^2 /NDF: 305894.9/18

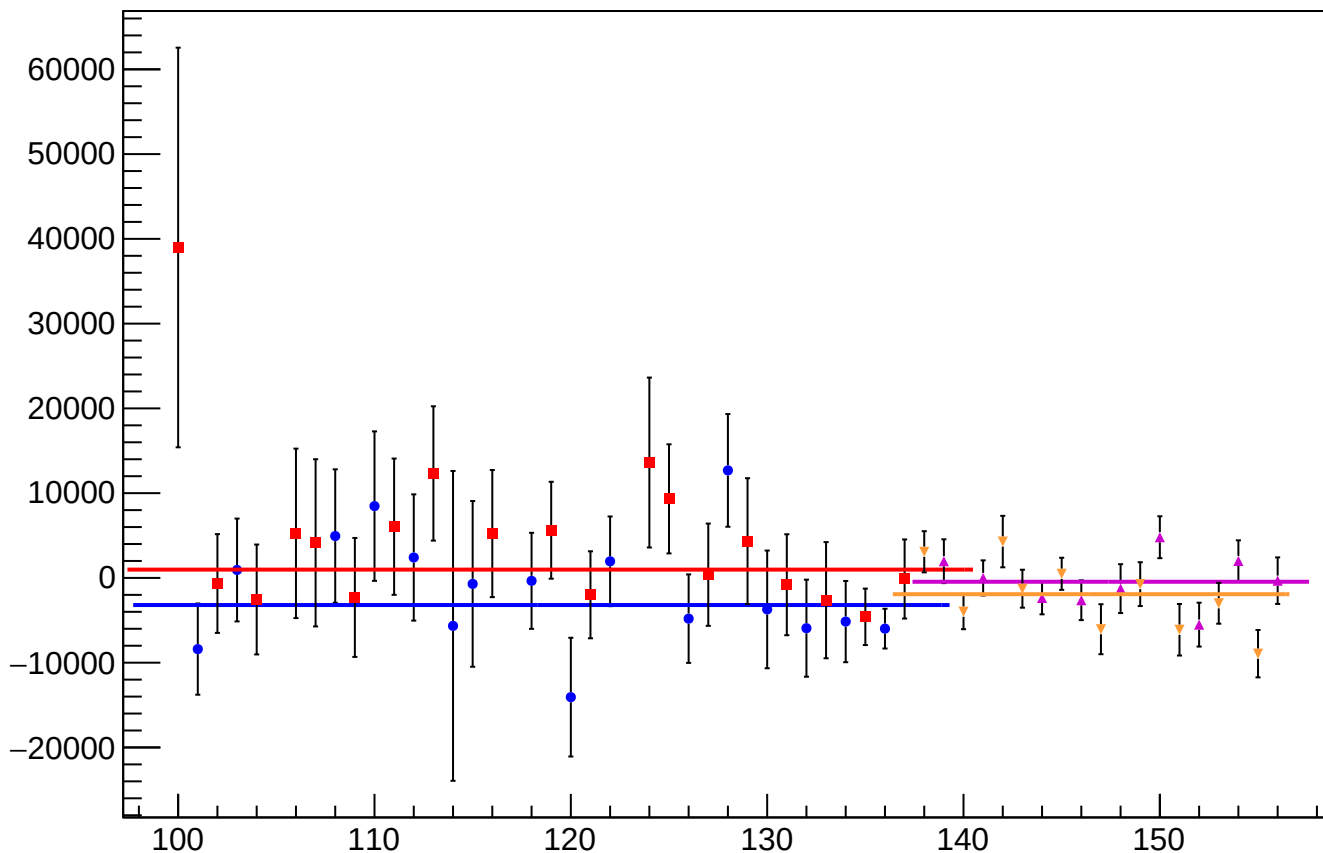
Right: 316.149 $\pm$ 0.060 χ^2 /NDF: 1299362.0/34

In: 283.119 $\pm$ 0.052 χ^2 /NDF:951768.8/24

Out: 284.345 $\pm$ 0.052 χ^2 /NDF:1131797.3/28

All: 283.732 $\pm$ 0.037 χ^2 /NDF: 2083838.9/53

asym_sam2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673+/-1353.816 χ^2/NDF : 16.1/15

Left Out: -1919.352+/-775.246 χ^2/NDF :21.7/9

Right Out: 980.937+/-1445.265 χ^2/NDF : 14.0/18

Left In: -452.935+/-798.775 χ^2/NDF :12.2/8

Left: -1208.059+/-556.314 χ^2/NDF : 35.6/18

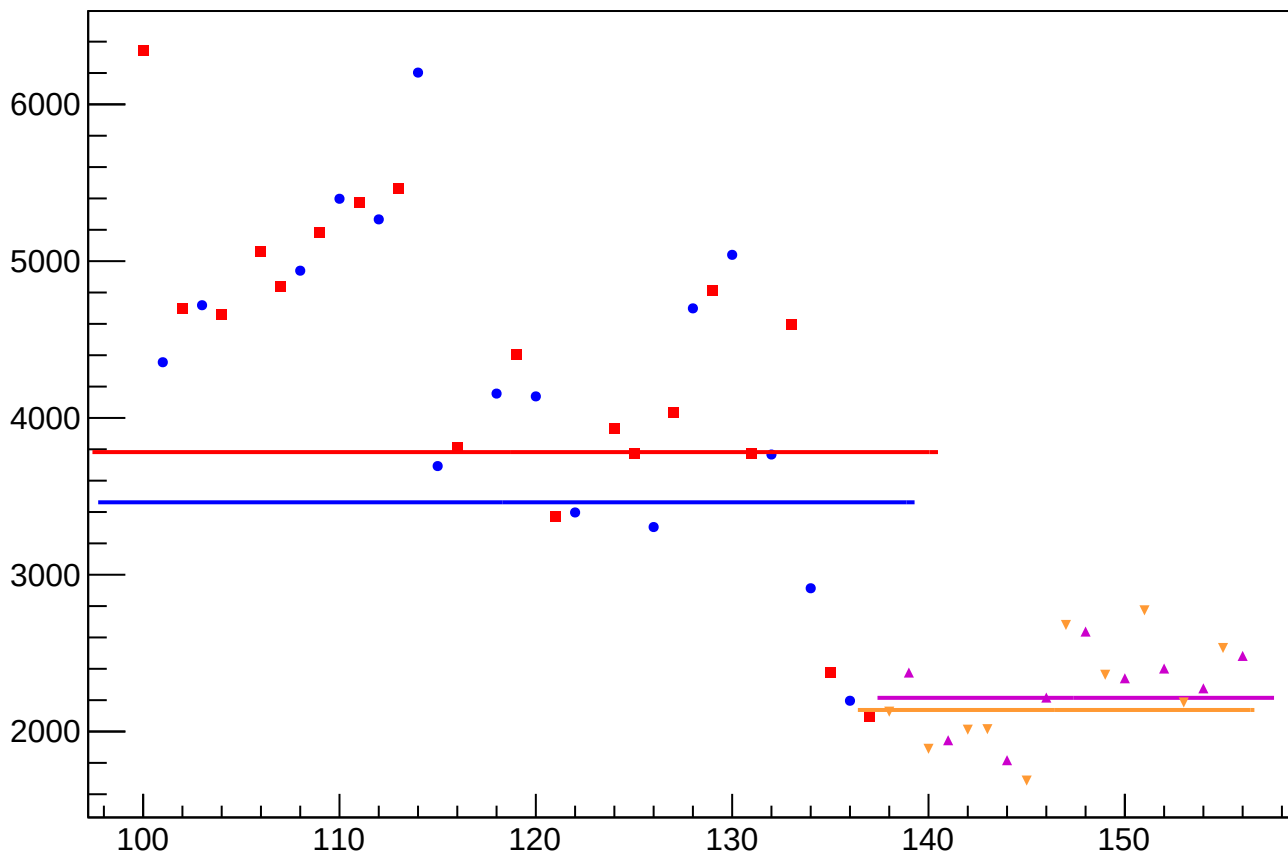
Right: -1245.274+/-988.041 χ^2/NDF : 34.5/34

In: -1161.957+/-687.955 χ^2/NDF :31.4/24

Out: -1271.313+/-683.168 χ^2/NDF :38.8/28

All: -1217.017+/-484.756 χ^2/NDF : 70.1/53

asym_sam2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932 $\pm$ 0.957 χ^2 /NDF: 1309596.2/15

Left Out: 2137.432 $\pm$ 0.548 χ^2 /NDF: 362199.2/9

Right Out: 3782.176 $\pm$ 1.022 χ^2 /NDF: 1136342.8/18

Left In: 2214.813 $\pm$ 0.565 χ^2 /NDF: 205417.3/8

Left: 2174.966 $\pm$ 0.393 χ^2 /NDF: 577281.7/18

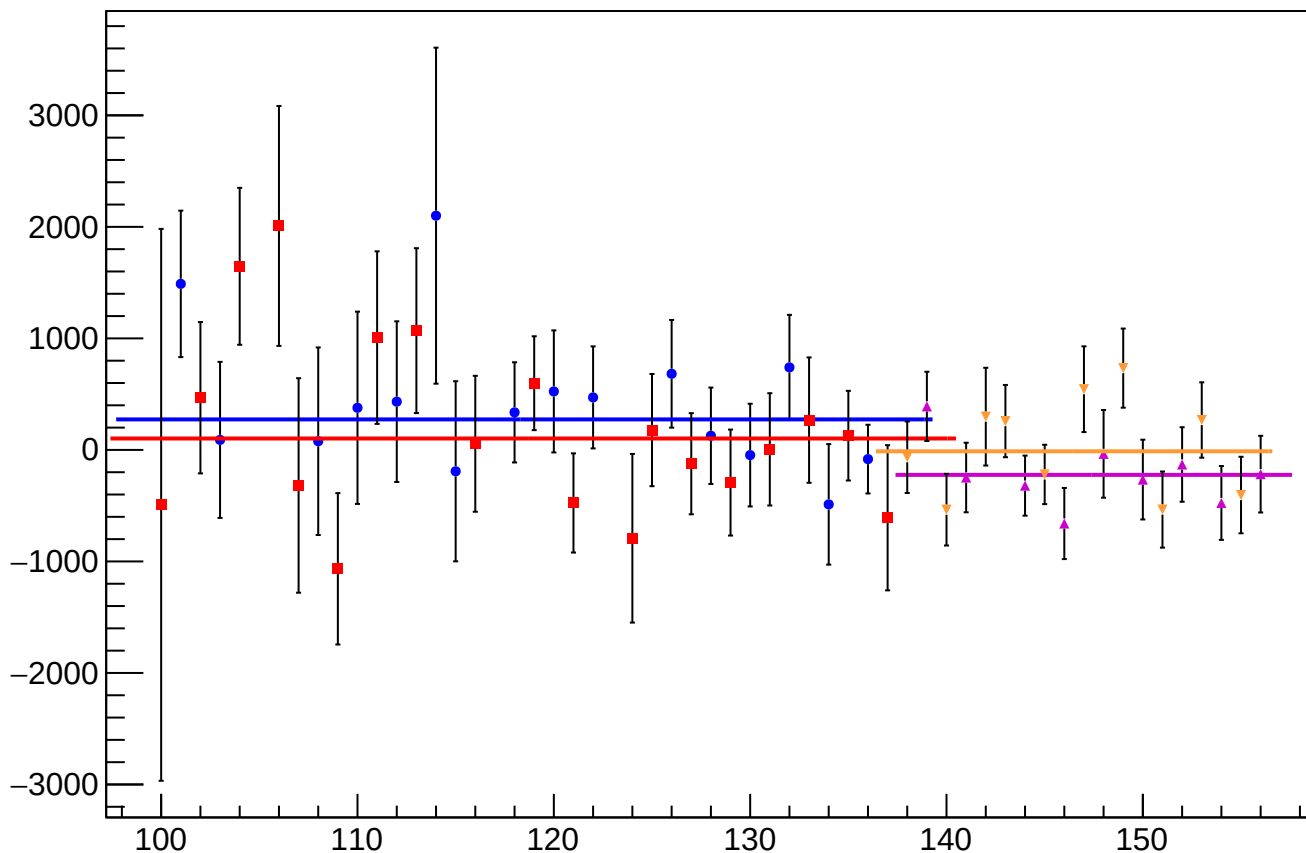
Right: 3611.602 $\pm$ 0.699 χ^2 /NDF: 2498242.4/34

In: 2536.852 $\pm$ 0.486 χ^2 /NDF: 2773931.9/24

Out: 2504.932 $\pm$ 0.483 χ^2 /NDF: 3509983.8/28

All: 2520.781 $\pm$ 0.343 χ^2 /NDF: 6286083.5/53

dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.578 ± 132.537 $\chi^2/\text{NDF}: 11.4/15$

Left Out: -12.388 ± 106.100 $\chi^2/\text{NDF}: 15.4/9$

Right Out: 102.369 ± 133.606 $\chi^2/\text{NDF}: 21.3/18$

Left In: -223.885 ± 108.380 $\chi^2/\text{NDF}: 6.8/8$

Left: -115.888 ± 75.817 $\chi^2/\text{NDF}: 24.1/18$

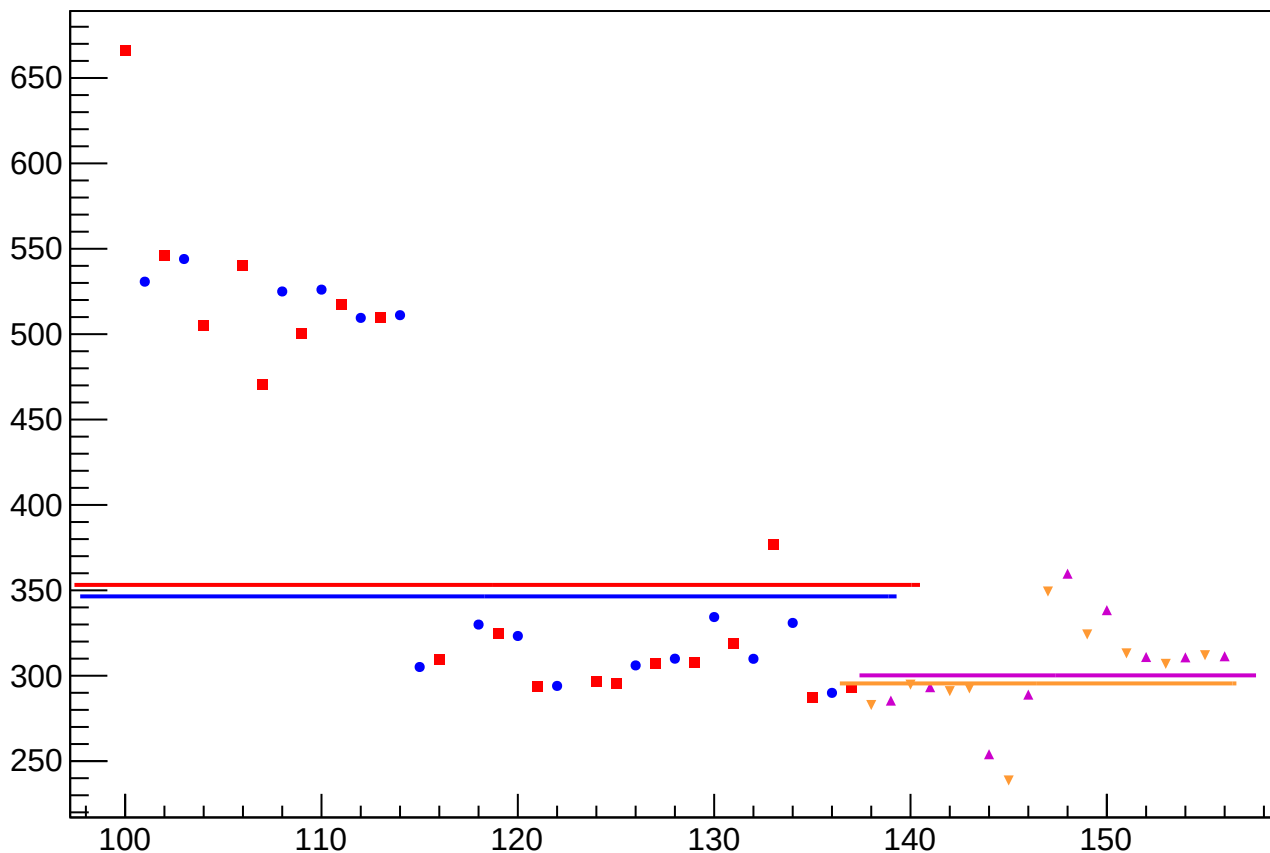
Right: 188.661 ± 94.094 $\chi^2/\text{NDF}: 33.6/34$

In: -24.538 ± 83.900 $\chi^2/\text{NDF}: 26.7/24$

Out: 31.993 ± 83.088 $\chi^2/\text{NDF}: 37.1/28$

All: 4.003 ± 59.037 $\chi^2/\text{NDF}: 64.1/53$

dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.455+/-0.094 χ^2/NDF : 768763.1/15

Left Out: 295.487+/-0.075 χ^2/NDF :159163.1/9

Right Out: 353.178+/-0.094 χ^2/NDF : 866364.3/18

Left In: 300.205+/-0.077 χ^2/NDF :141763.1/8

Left: 297.796+/-0.054 χ^2/NDF : 302862.2/18

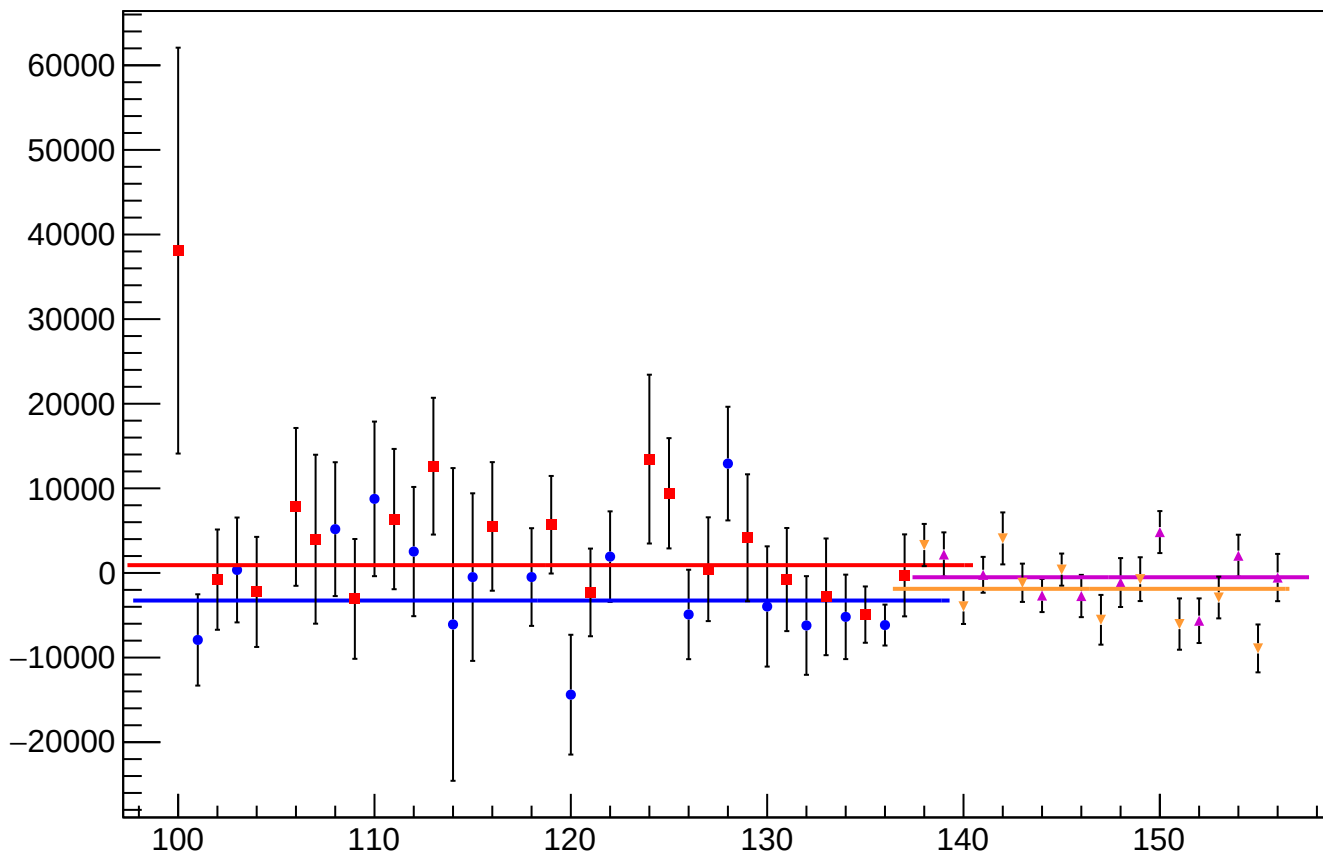
Right: 349.789+/-0.067 χ^2/NDF : 1637679.7/34

In: 318.739+/-0.059 χ^2/NDF :1056472.1/24

Out: 317.798+/-0.059 χ^2/NDF :1254212.4/28

All: 318.264+/-0.042 χ^2/NDF : 2310811.4/53

asym_sam2_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.837 $\pm$ 1384.139 χ^2 /NDF: 16.0/15

Left Out: -1875.918 $\pm$ 782.382 χ^2 /NDF:20.6/9

Right Out: 921.196 $\pm$ 1460.727 χ^2 /NDF: 14.6/18

Left In: -506.472 $\pm$ 814.530 χ^2 /NDF:12.6/8

Left: -1218.753 $\pm$ 564.250 χ^2 /NDF: 34.7/18

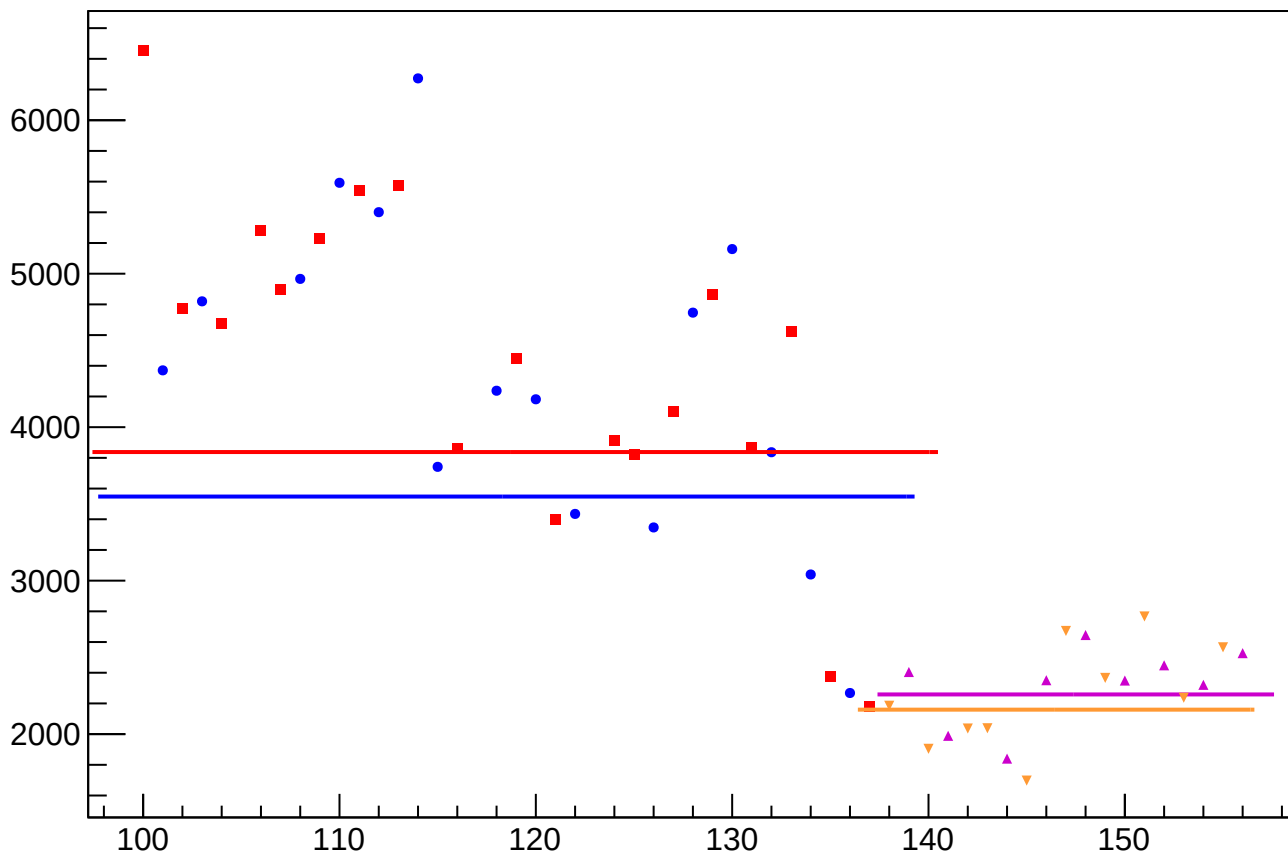
Right: -1281.271 $\pm$ 1004.719 χ^2 /NDF: 35.0/34

In: -1214.447 $\pm$ 701.998 χ^2 /NDF:31.6/24

Out: -1252.368 $\pm$ 689.683 χ^2 /NDF:38.1/28

All: -1233.743 $\pm$ 491.976 χ^2 /NDF: 69.7/53

asym_sam2_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.969+/-0.979 χ^2/NDF : 1258486.8/15

Left Out: 2159.450+/-0.553 χ^2/NDF : 354685.8/9

Right Out: 3837.970+/-1.033 χ^2/NDF : 1155831.8/18

Left In: 2258.607+/-0.576 χ^2/NDF : 201456.6/8

Left: 2207.033+/-0.399 χ^2/NDF : 571558.5/18

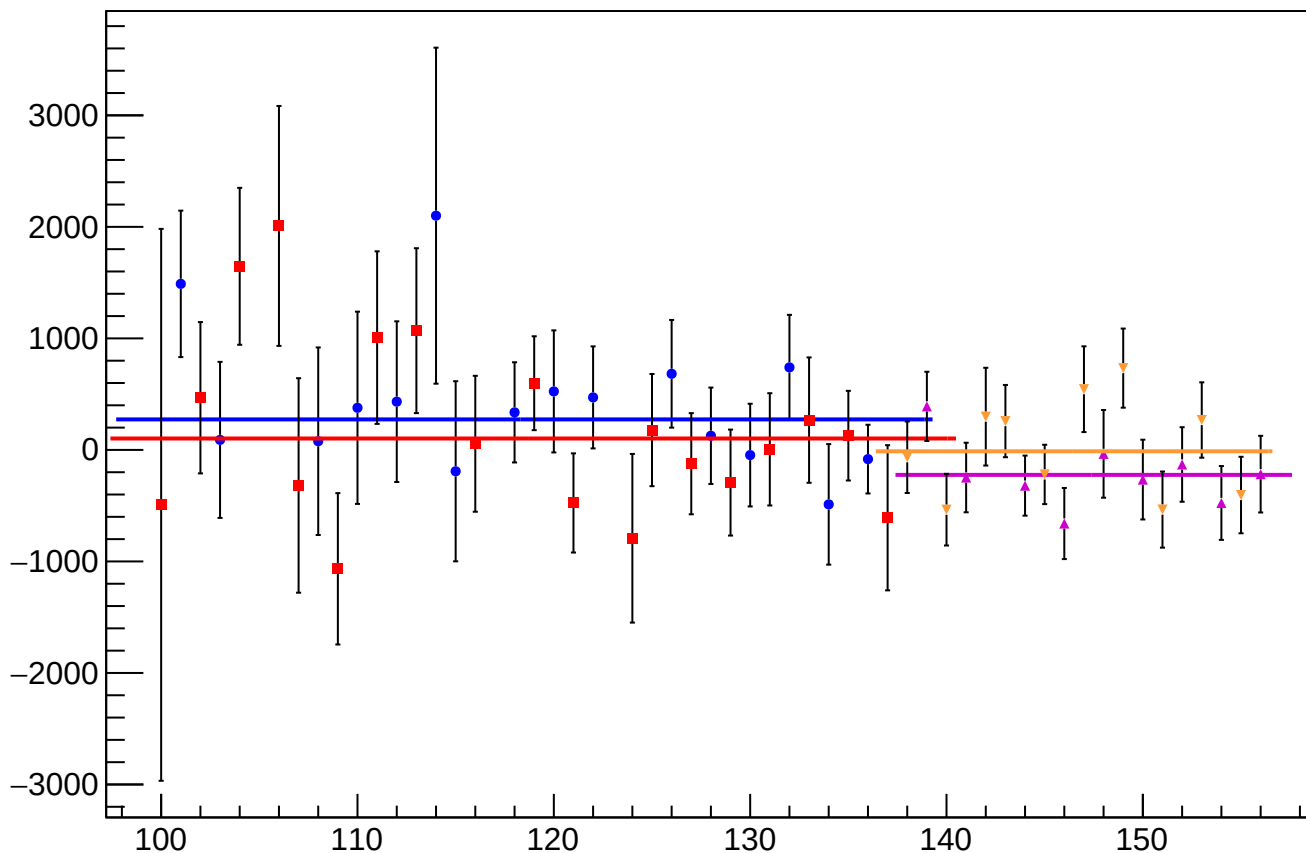
Right: 3685.168+/-0.710 χ^2/NDF : 2455854.0/34

In: 2590.262+/-0.496 χ^2/NDF : 2749017.9/24

Out: 2533.636+/-0.488 χ^2/NDF : 3562658.0/28

All: 2561.448+/-0.348 χ^2/NDF : 6318297.8/53

eigen_dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.582 ± 132.536 $\chi^2/\text{NDF}: 11.4/15$

Left Out: -12.393 ± 106.100 $\chi^2/\text{NDF}: 15.4/9$

Right Out: 102.368 ± 133.606 $\chi^2/\text{NDF}: 21.3/18$

Left In: -223.887 ± 108.380 $\chi^2/\text{NDF}: 6.8/8$

Left: -115.891 ± 75.817 $\chi^2/\text{NDF}: 24.1/18$

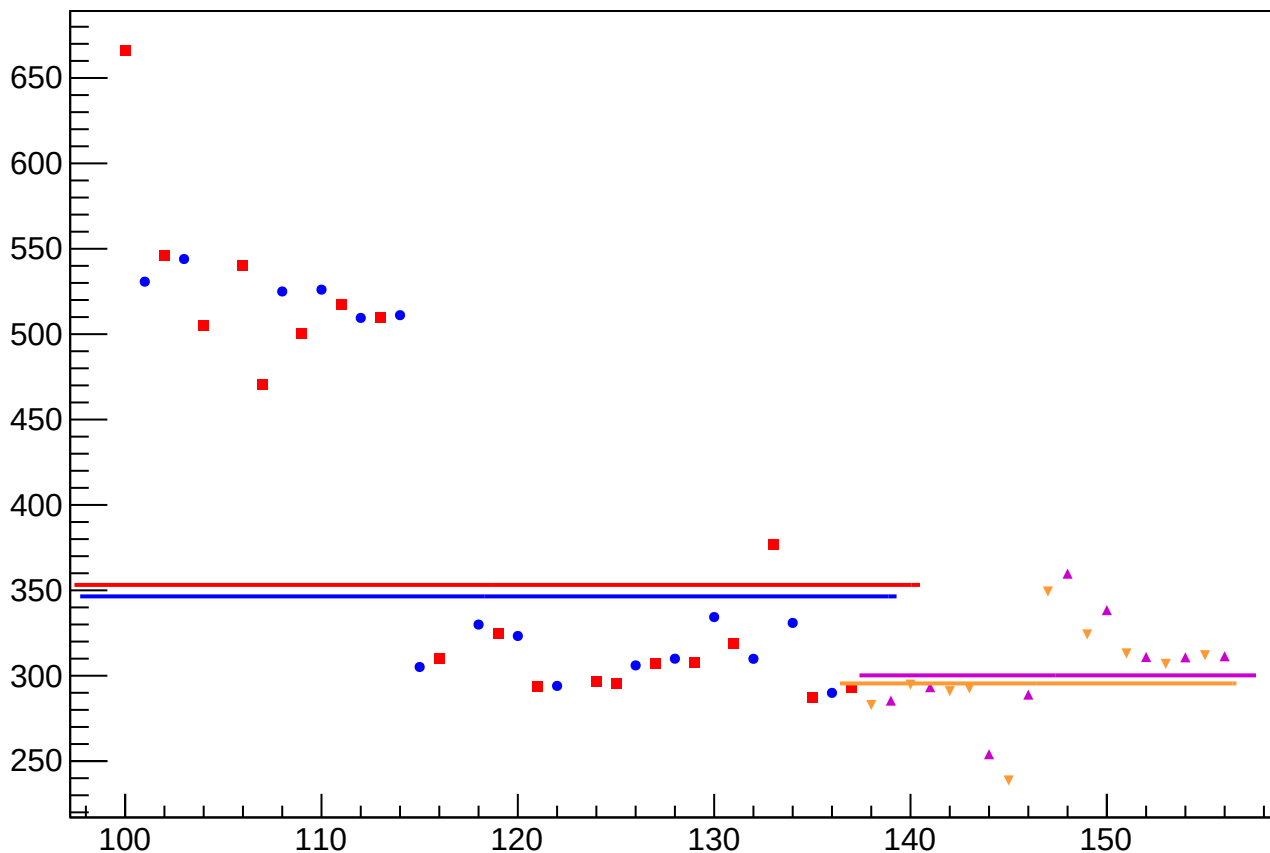
Right: 188.663 ± 94.093 $\chi^2/\text{NDF}: 33.6/34$

In: -24.536 ± 83.900 $\chi^2/\text{NDF}: 26.7/24$

Out: 31.989 ± 83.087 $\chi^2/\text{NDF}: 37.1/28$

All: 4.002 ± 59.037 $\chi^2/\text{NDF}: 64.1/53$

eigen_dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.453 $\pm$ 0.094 χ^2/NDF : 768754.7/15

Left Out: 295.487 $\pm$ 0.075 χ^2/NDF :159166.2/9

Right Out: 353.176 $\pm$ 0.094 χ^2/NDF : 866353.6/18

Left In: 300.206 $\pm$ 0.077 χ^2/NDF :141764.9/8

Left: 297.796 $\pm$ 0.054 χ^2/NDF : 302867.0/18

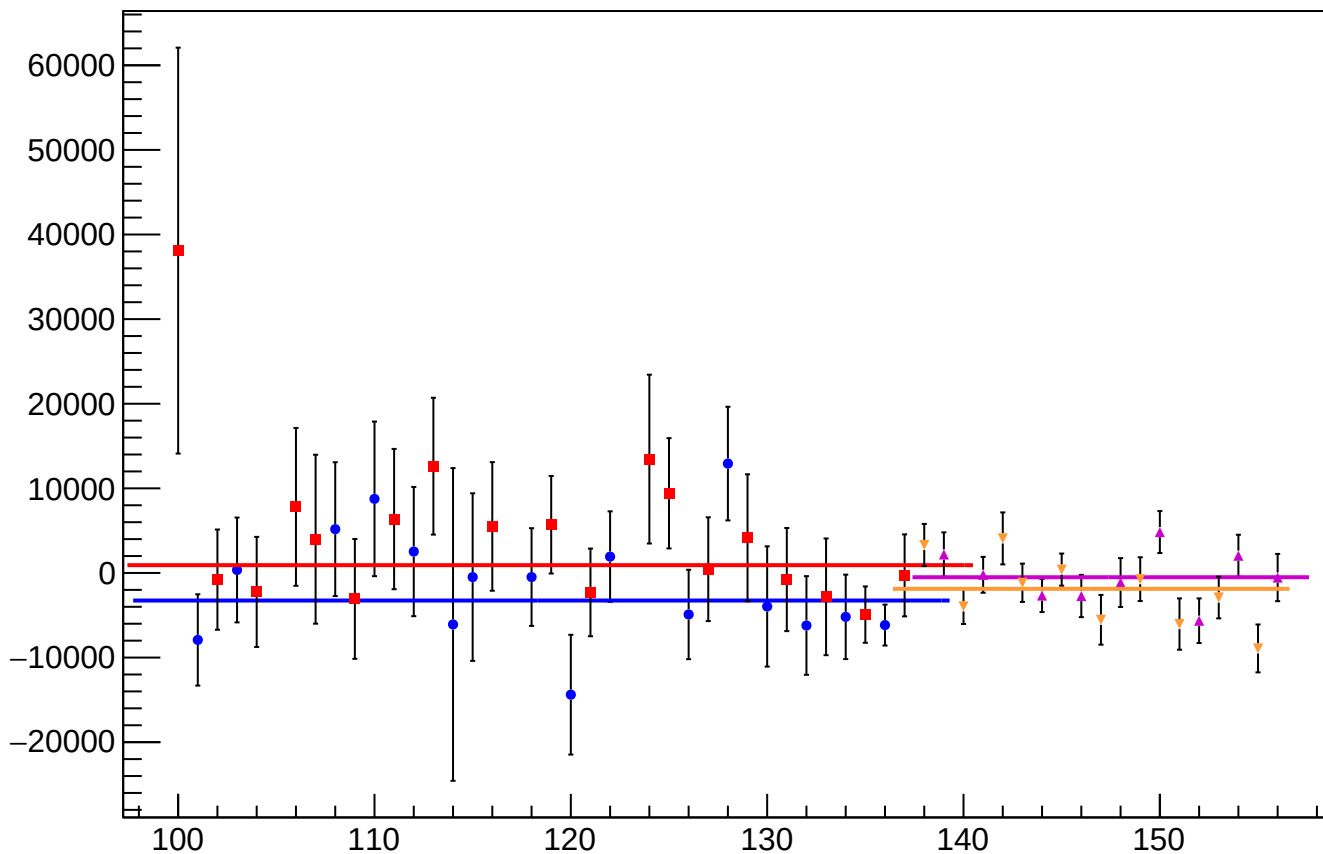
Right: 349.788 $\pm$ 0.067 χ^2/NDF : 1637661.2/34

In: 318.738 $\pm$ 0.059 χ^2/NDF :1056453.0/24

Out: 317.798 $\pm$ 0.059 χ^2/NDF :1254194.8/28

All: 318.263 $\pm$ 0.042 χ^2/NDF : 2310774.6/53

asym_sam2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.828 $\pm$ 1384.137 χ^2 /NDF: 16.0/15

Left Out: -1875.916 $\pm$ 782.381 χ^2 /NDF:20.6/9

Right Out: 921.200 $\pm$ 1460.725 χ^2 /NDF: 14.6/18

Left In: -506.471 $\pm$ 814.530 χ^2 /NDF:12.6/8

Left: -1218.752 $\pm$ 564.250 χ^2 /NDF: 34.7/18

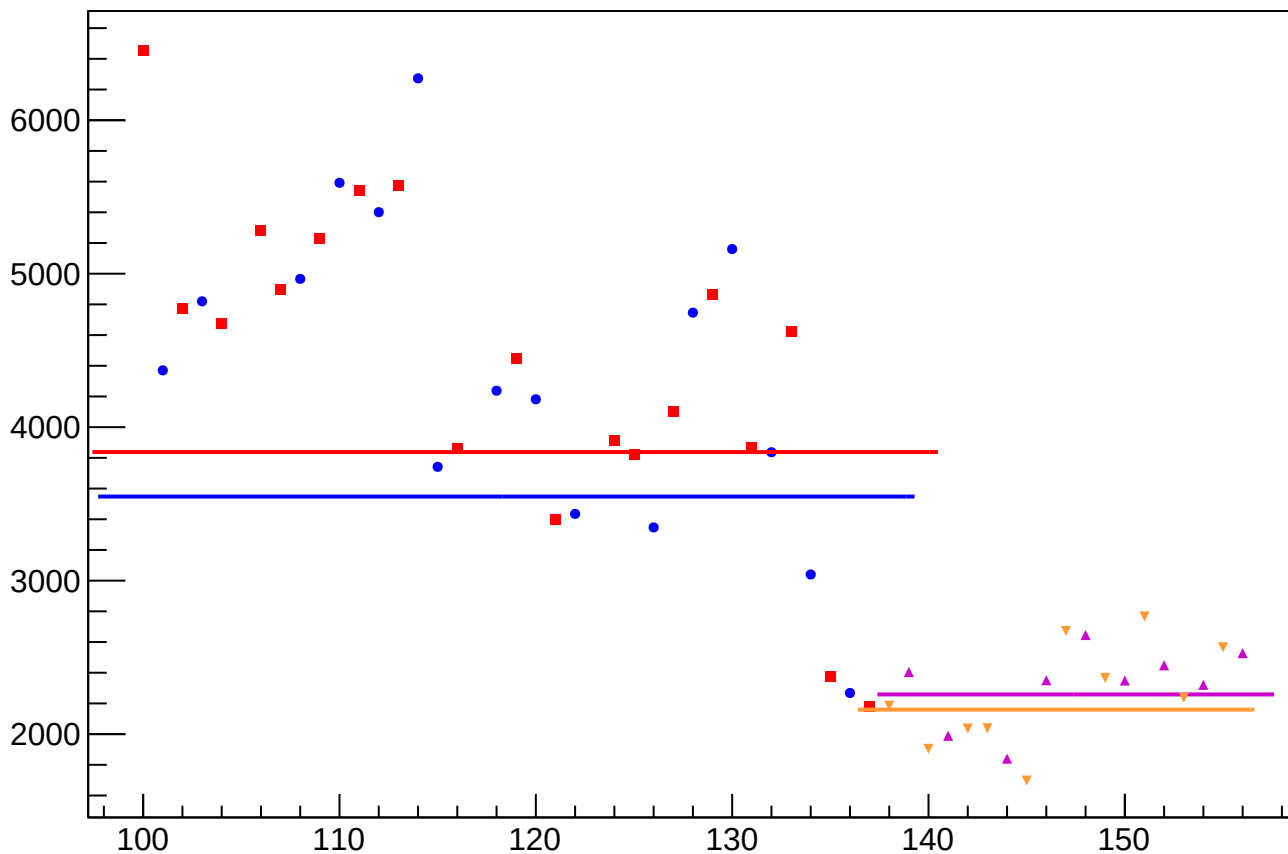
Right: -1281.264 $\pm$ 1004.718 χ^2 /NDF: 35.0/34

In: -1214.445 $\pm$ 701.998 χ^2 /NDF:31.6/24

Out: -1252.365 $\pm$ 689.683 χ^2 /NDF:38.1/28

All: -1233.740 $\pm$ 491.976 χ^2 /NDF: 69.7/53

asym_sam2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.966+/-0.979 χ^2/NDF : 1258472.8/15

Left Out: 2159.448+/-0.553 χ^2/NDF : 354691.1/9

Right Out: 3837.965+/-1.033 χ^2/NDF : 1155821.5/18

Left In: 2258.607+/-0.576 χ^2/NDF : 201457.5/8

Left: 2207.032+/-0.399 χ^2/NDF : 571565.1/18

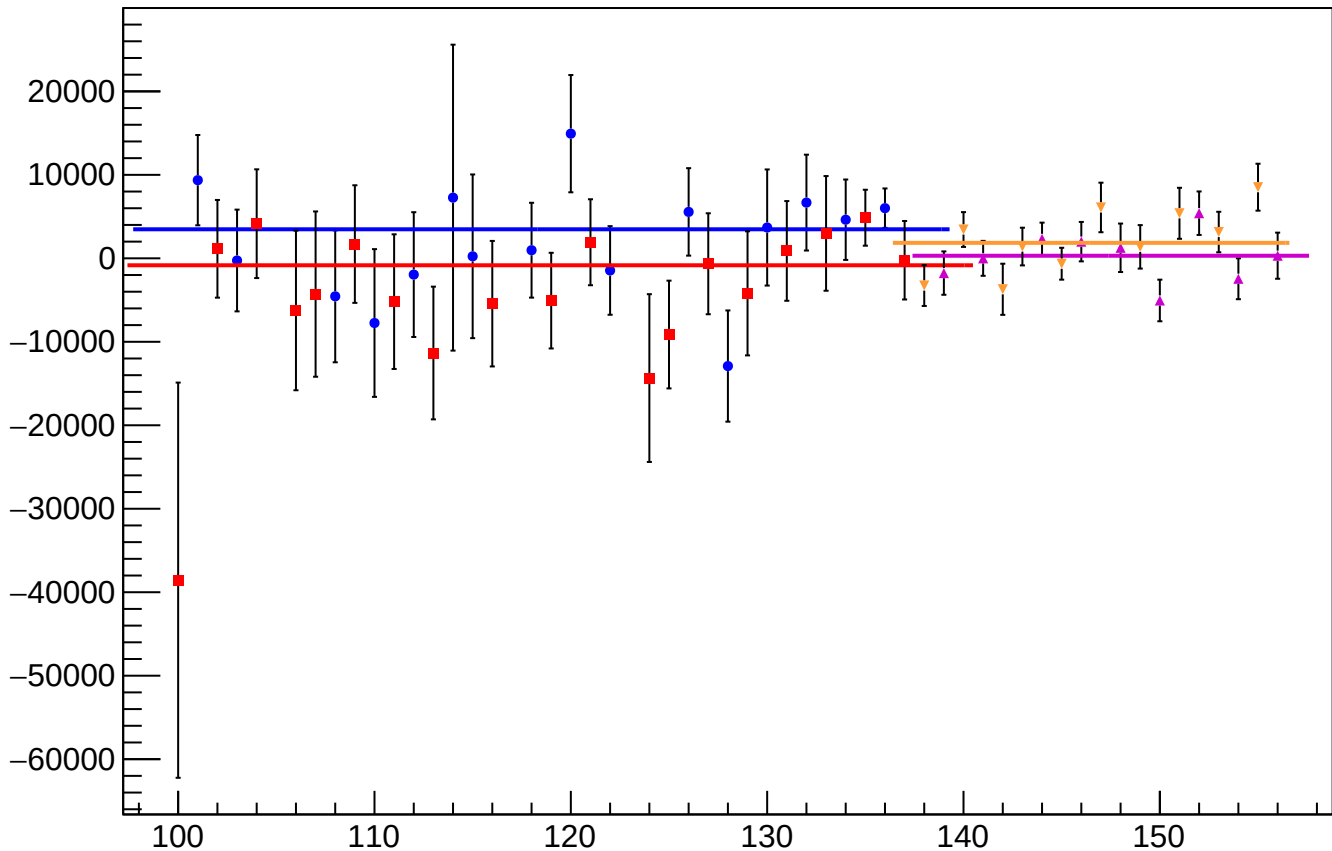
Right: 3685.164+/-0.710 χ^2/NDF : 2455829.5/34

In: 2590.262+/-0.496 χ^2/NDF : 2749001.3/24

Out: 2533.634+/-0.488 χ^2/NDF : 3562651.5/28

All: 2561.447+/-0.348 χ^2/NDF : 6318275.0/53

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3478.372 $\pm$ 1360.356 χ^2 /NDF: 16.3/15

Left Out: 1854.321 $\pm$ 781.276 χ^2 /NDF:19.3/9

Right Out: -832.583 $\pm$ 1449.649 χ^2 /NDF: 14.0/18

Left In: 308.863 $\pm$ 804.665 χ^2 /NDF:12.1/8

Left: 1104.378 $\pm$ 560.532 χ^2 /NDF: 33.3/18

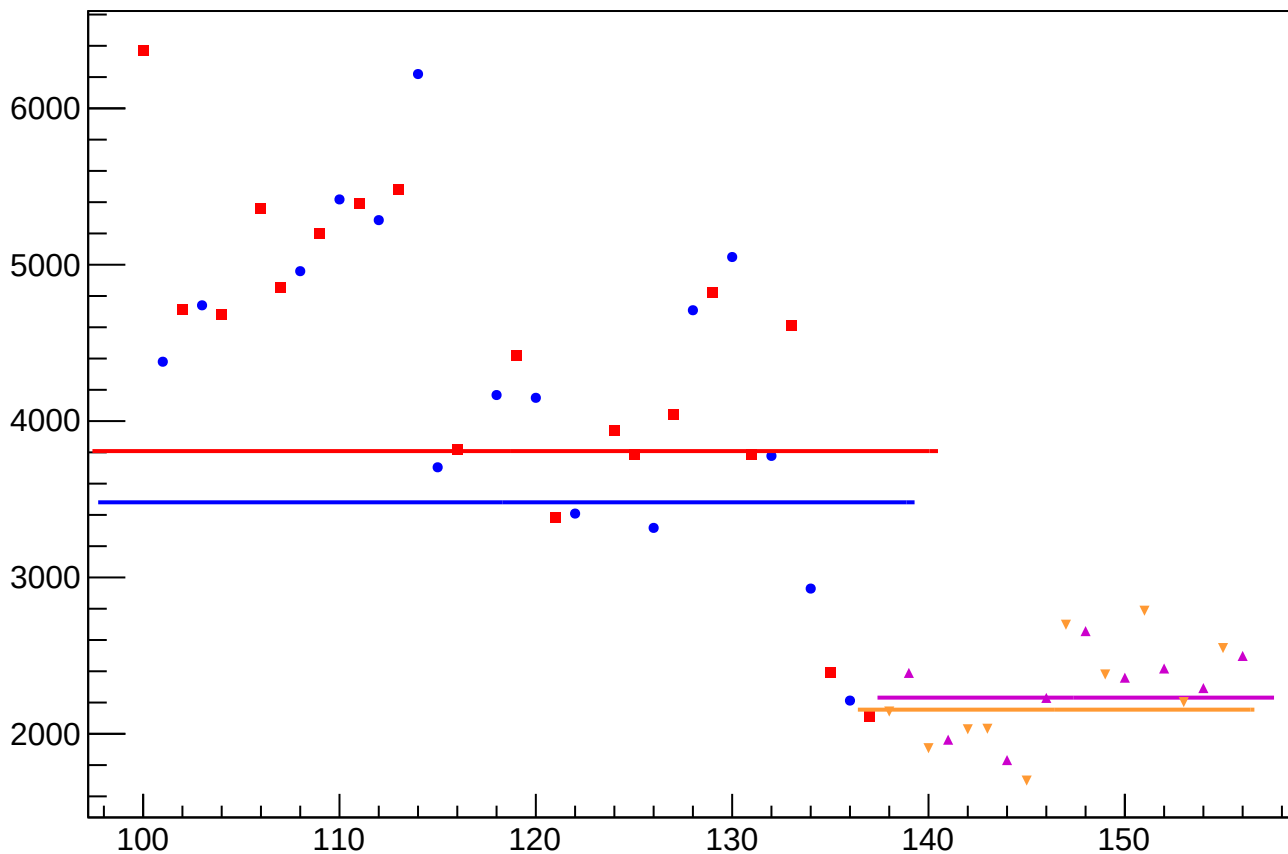
Right: 1459.744 $\pm$ 991.983 χ^2 /NDF: 35.1/34

In: 1130.387 $\pm$ 692.575 χ^2 /NDF:32.4/24

Out: 1249.548 $\pm$ 687.753 χ^2 /NDF:36.0/28

All: 1190.384 $\pm$ 488.011 χ^2 /NDF: 68.4/53

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3480.559 $\pm$ 0.962 χ^2/NDF : 129641.6/15

Left Out: 2154.574 $\pm$ 0.552 χ^2/NDF : 357808.0/9

Right Out: 3808.151 $\pm$ 1.025 χ^2/NDF : 1147564.2/18

Left In: 2231.432 $\pm$ 0.569 χ^2/NDF : 202933.5/8

Left: 2191.870 $\pm$ 0.396 χ^2/NDF : 570133.8/18

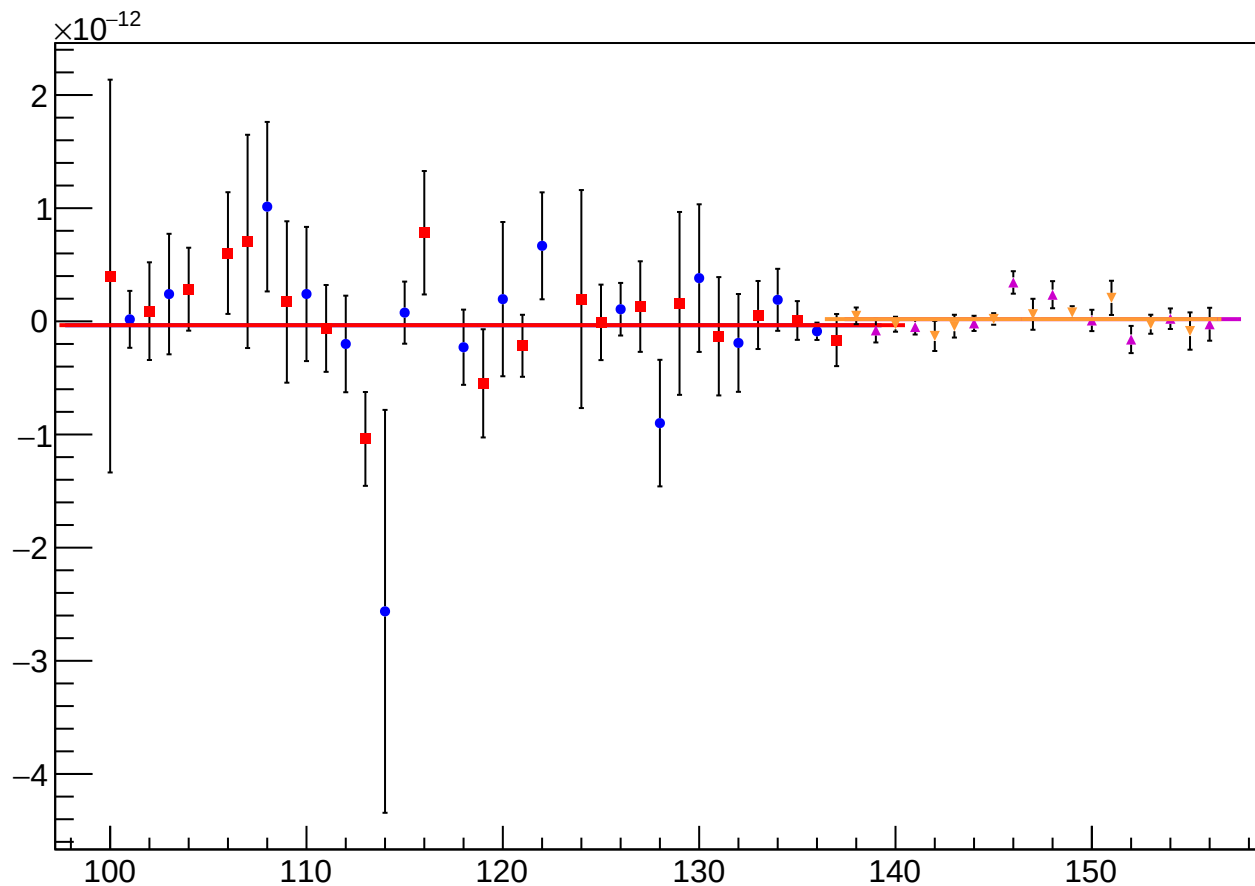
Right: 3633.956 $\pm$ 0.701 χ^2/NDF : 2498515.1/34

In: 2555.201 $\pm$ 0.490 χ^2/NDF : 2748802.3/24

Out: 2526.764 $\pm$ 0.486 χ^2/NDF : 3521924.2/28

All: 2540.883 $\pm$ 0.345 χ^2/NDF : 6272424.2/53

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:5.7/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 13.5/18

Left In: 0.000+/-0.000 χ^2 /NDF:18.5/8

Left: 0.000+/-0.000 χ^2 /NDF: 24.2/18

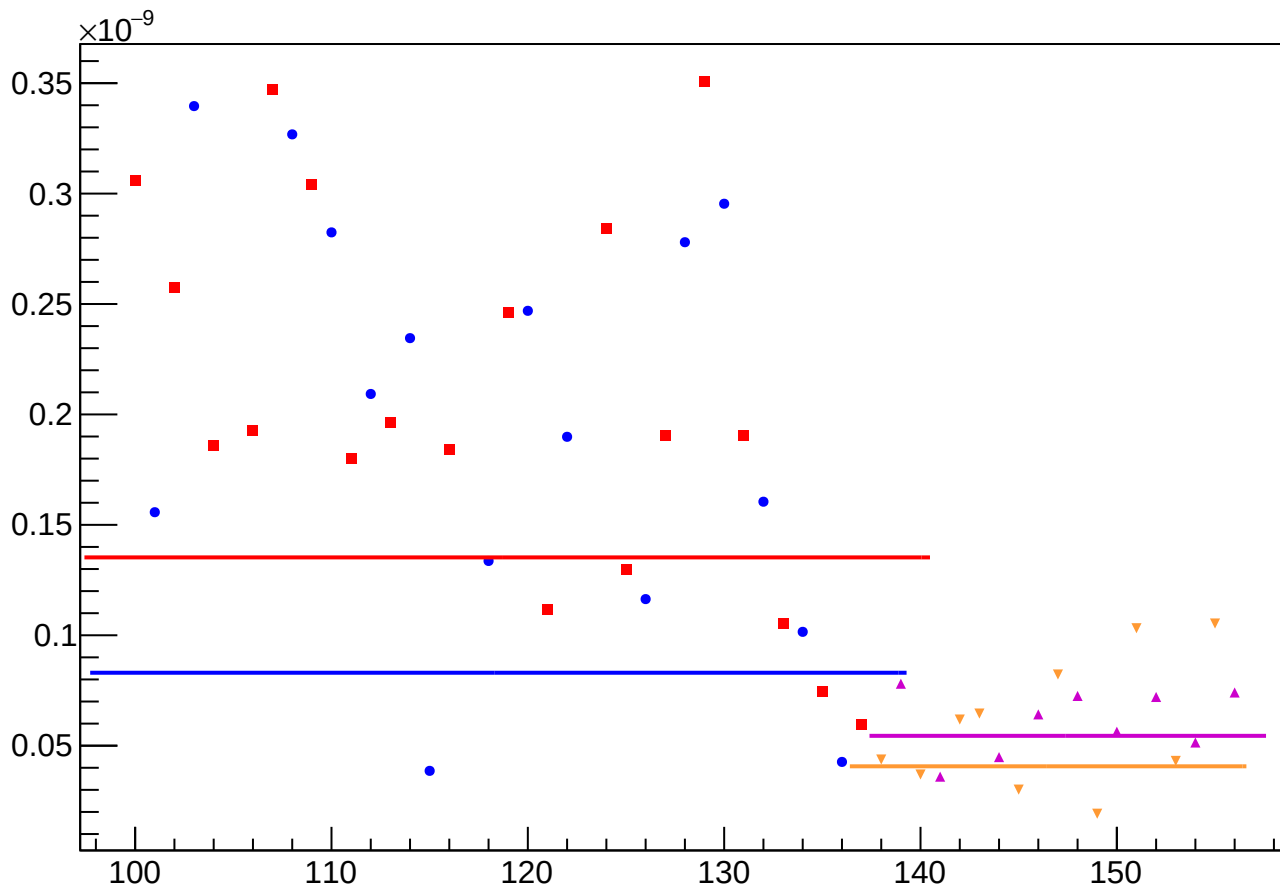
Right: -0.000+/-0.000 χ^2 /NDF: 25.5/34

In: 0.000+/-0.000 χ^2 /NDF:31.1/24

Out: 0.000+/-0.000 χ^2 /NDF:19.6/28

All: 0.000+/-0.000 χ^2 /NDF: 50.7/53

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 : 1390912.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1401659.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 439343.5/8

Left: 0.000+/-0.000 χ^2/NDF : 2069569.0/18

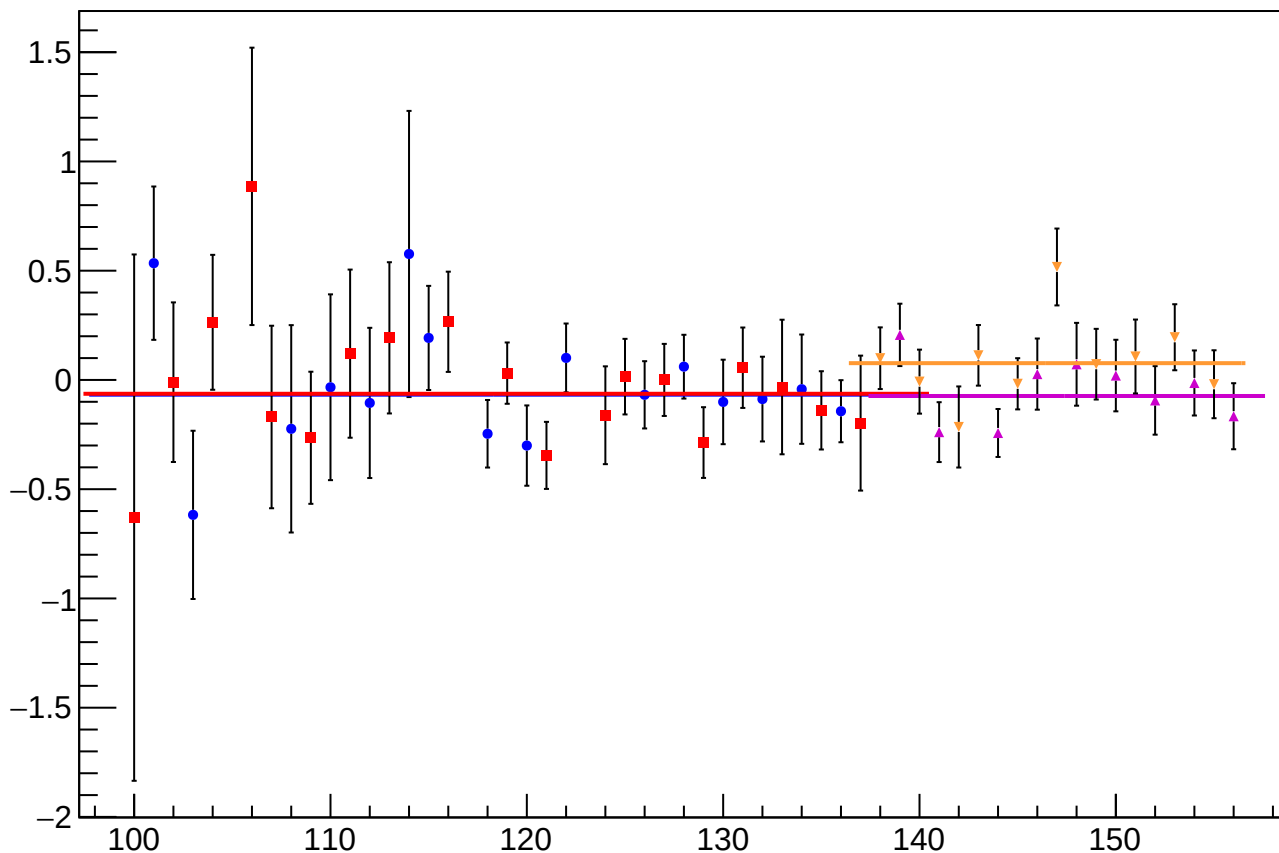
Right: 0.000+/-0.000 χ^2/NDF : 4605860.5/34

In: 0.000+/-0.000 χ^2/NDF : 3495050.8/24

Out: 0.000+/-0.000 χ^2/NDF : 5074301.3/28

All: 0.000+/-0.000 χ^2/NDF : 8778785.0/53

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: 0.077 ± 0.048 $\chi^2/\text{NDF}: 10.8/9$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.073 ± 0.049 $\chi^2/\text{NDF}: 9.5/8$

Left: 0.004 ± 0.034 $\chi^2/\text{NDF}: 25.2/18$

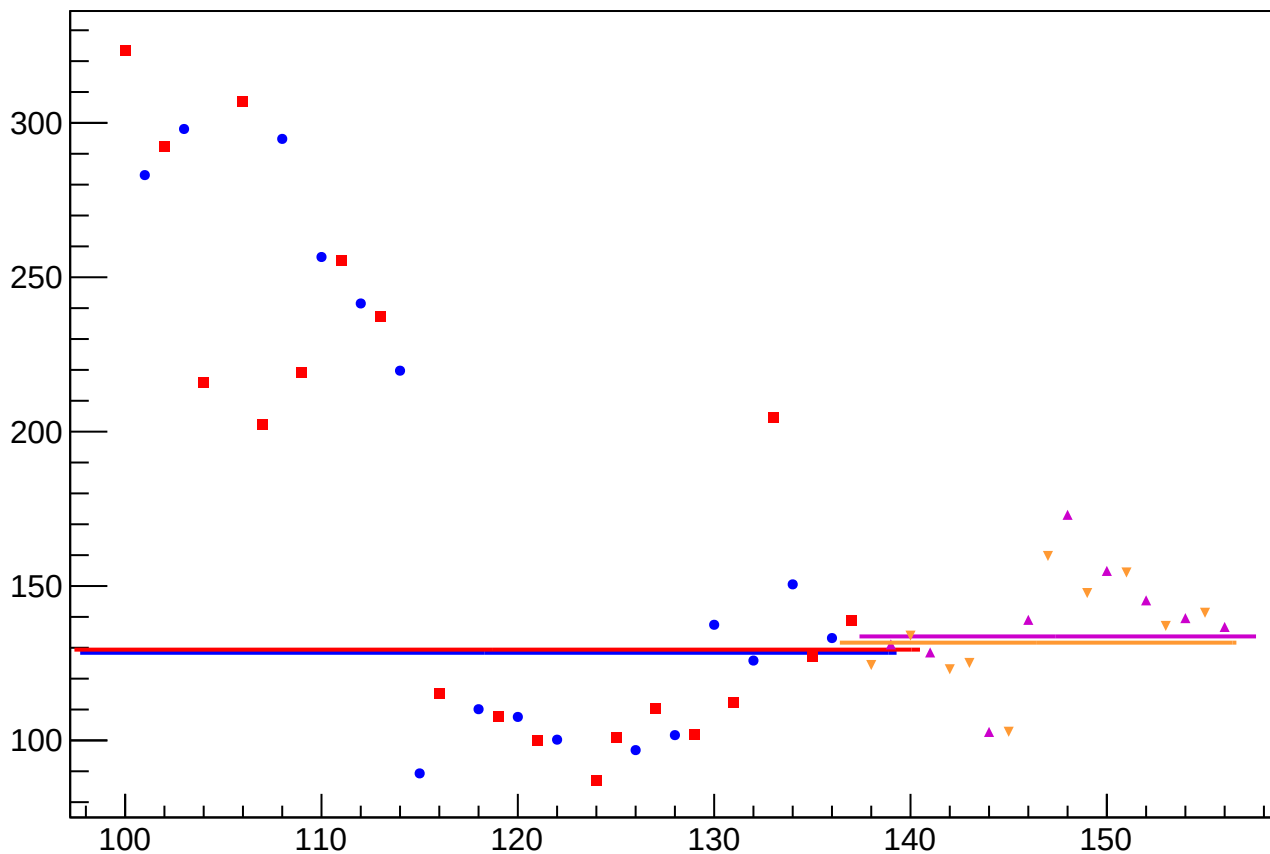
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.071 ± 0.036 $\chi^2/\text{NDF}: 22.0/24$

Out: 0.012 ± 0.035 $\chi^2/\text{NDF}: 28.9/28$

All: -0.028 ± 0.025 $\chi^2/\text{NDF}: 53.6/53$

asym_sam2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380+/-0.037

χ^2/NDF : 1805078.6/15

Left: 132.641+/-0.024

χ^2/NDF : 554251.8/18

Left Out: 131.661+/-0.034

χ^2/NDF : 253027.3/9

Right: 128.891+/-0.026

χ^2/NDF : 3693738.9/34

Right Out: 129.399+/-0.037

χ^2/NDF : 1888271.6/18

In: 131.178+/-0.025

χ^2/NDF : 2115618.5/24

Out: 130.621+/-0.025

χ^2/NDF : 2143374.3/28

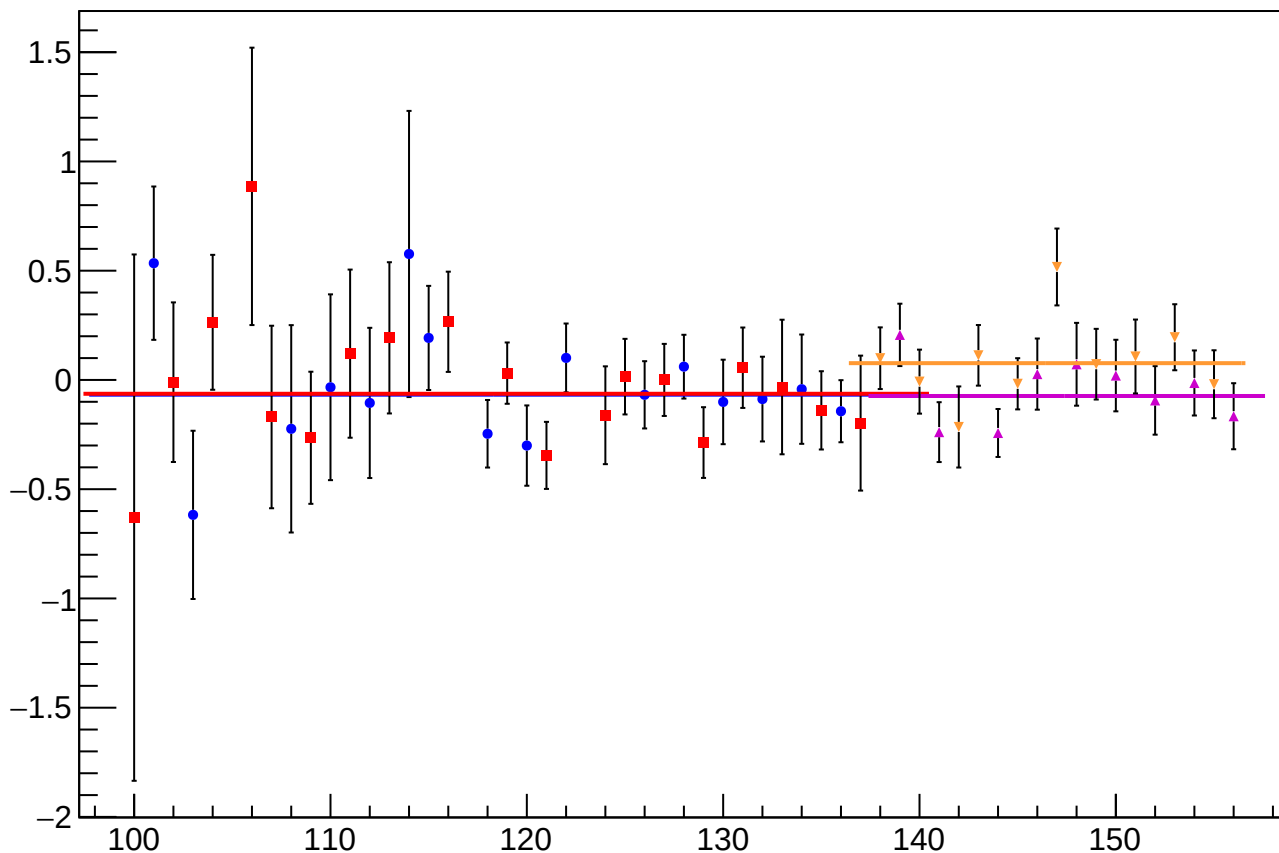
Left In: 133.677+/-0.035

χ^2/NDF : 299480.3/8

All: 130.895+/-0.018

χ^2/NDF : 4259241.6/53

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: 0.077 ± 0.048 $\chi^2/\text{NDF}: 10.8/9$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.073 ± 0.049 $\chi^2/\text{NDF}: 9.5/8$

Left: 0.004 ± 0.034 $\chi^2/\text{NDF}: 25.2/18$

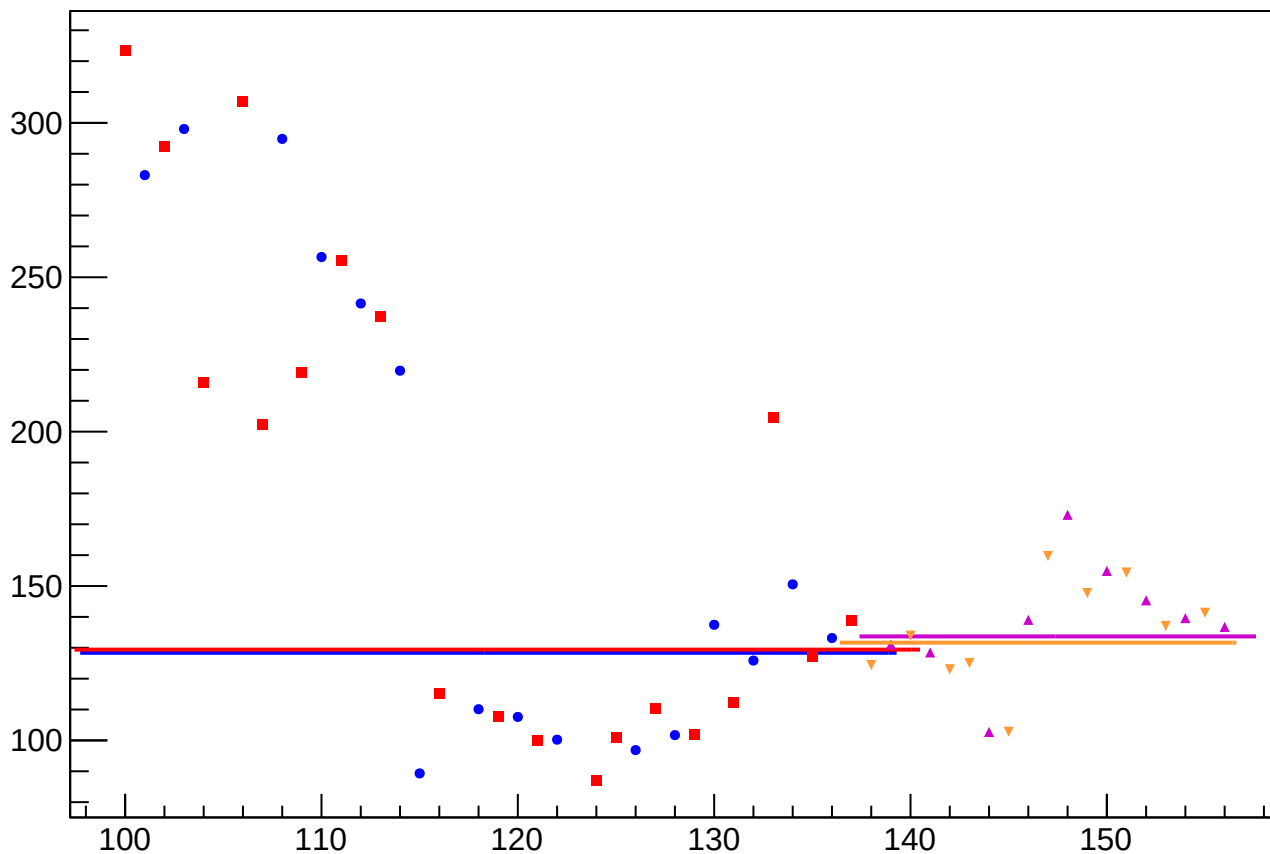
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.071 ± 0.036 $\chi^2/\text{NDF}: 22.0/24$

Out: 0.012 ± 0.035 $\chi^2/\text{NDF}: 28.9/28$

All: -0.028 ± 0.025 $\chi^2/\text{NDF}: 53.6/53$

asym_sam2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380+/-0.037

χ^2/NDF : 1805078.6/15

Left: 132.641+/-0.024

χ^2/NDF : 554251.8/18

Left Out: 131.661+/-0.034

χ^2/NDF : 253027.3/9

Right: 128.891+/-0.026

χ^2/NDF : 3693738.9/34

Right Out: 129.399+/-0.037

χ^2/NDF : 1888271.6/18

In: 131.178+/-0.025

χ^2/NDF : 2115618.5/24

Out: 130.621+/-0.025

χ^2/NDF : 2143374.3/28

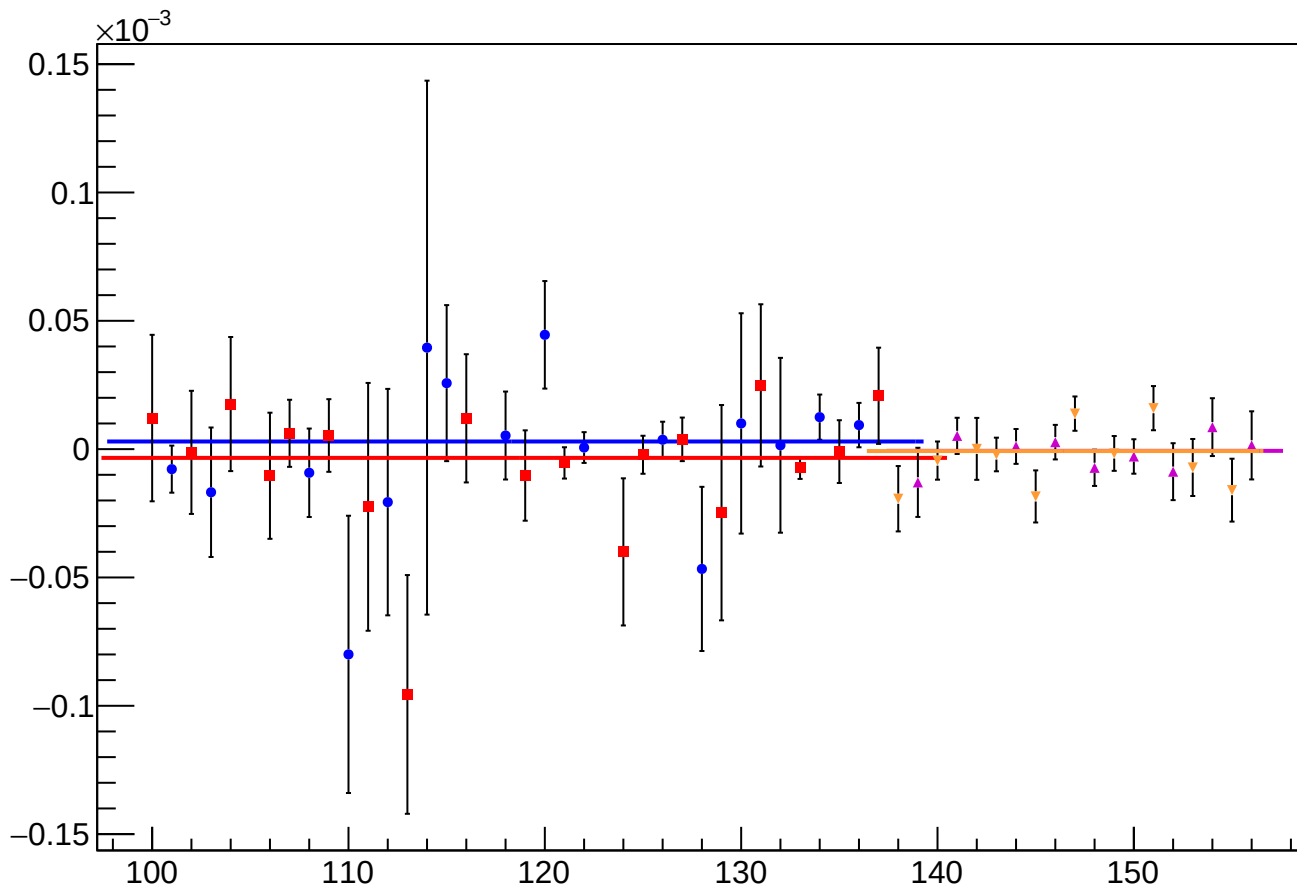
Left In: 133.677+/-0.035

χ^2/NDF : 299480.3/8

All: 130.895+/-0.018

χ^2/NDF : 4259241.6/53

asym_sam2_eigen_dit_vs_dit_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 : 15.9/9

Right Out: -0.000+/-0.000 χ^2/NDF : 12.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.0/8

Left: -0.000+/-0.000 χ^2/NDF : 19.9/18

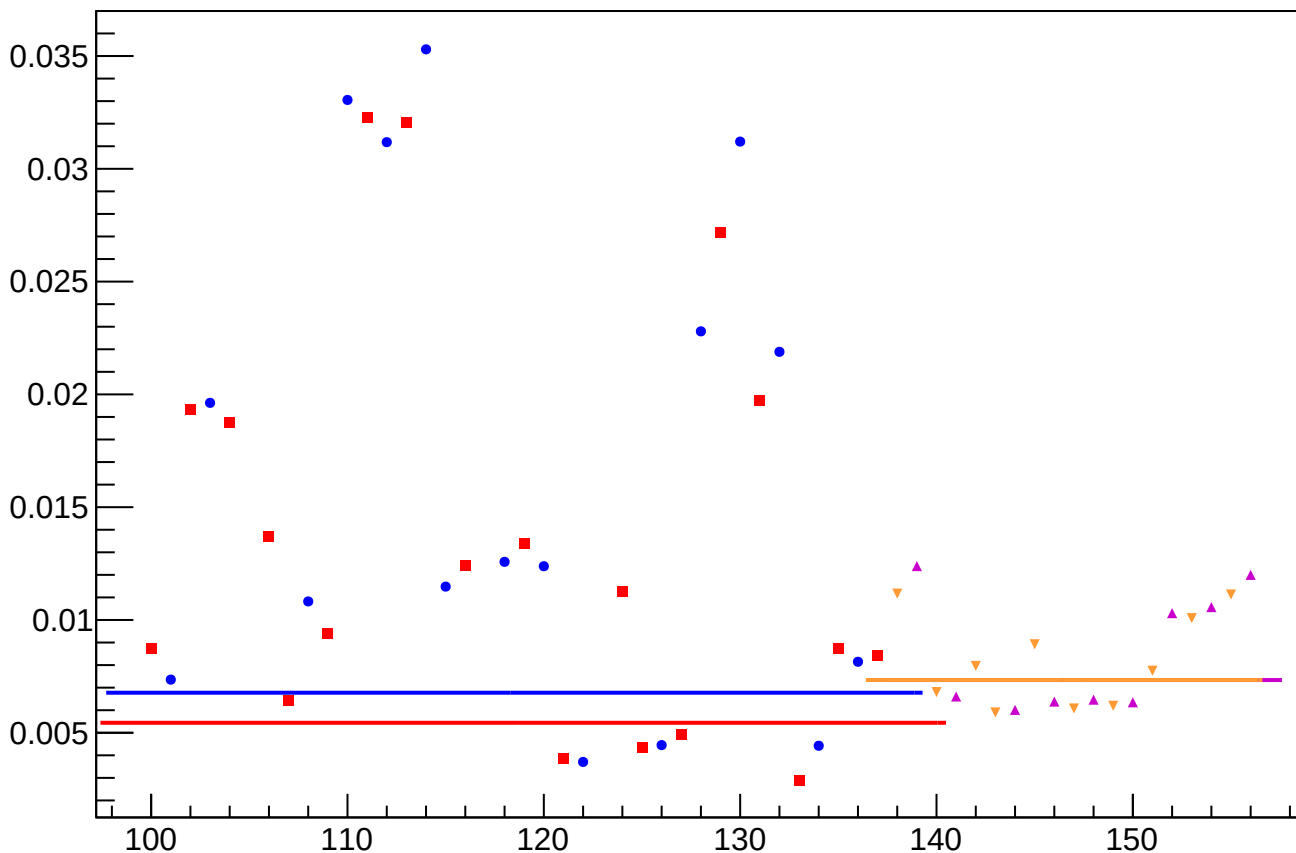
Right: -0.000+/-0.000 χ^2/NDF : 29.1/34

In: 0.000+/-0.000 χ^2/NDF : 18.9/24

Out: -0.000+/-0.000 χ^2/NDF : 29.0/28

All: -0.000+/-0.000 χ^2/NDF : 49.1/53

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: 0.007+/-0.000 χ^2/NDF : 787656.7/9

Right Out: 0.005+/-0.000 χ^2/NDF : 5572364.1/18

Left In: 0.007+/-0.000 χ^2/NDF : 1046693.6/8

Left: 0.007+/-0.000 χ^2/NDF : 1834350.4/18

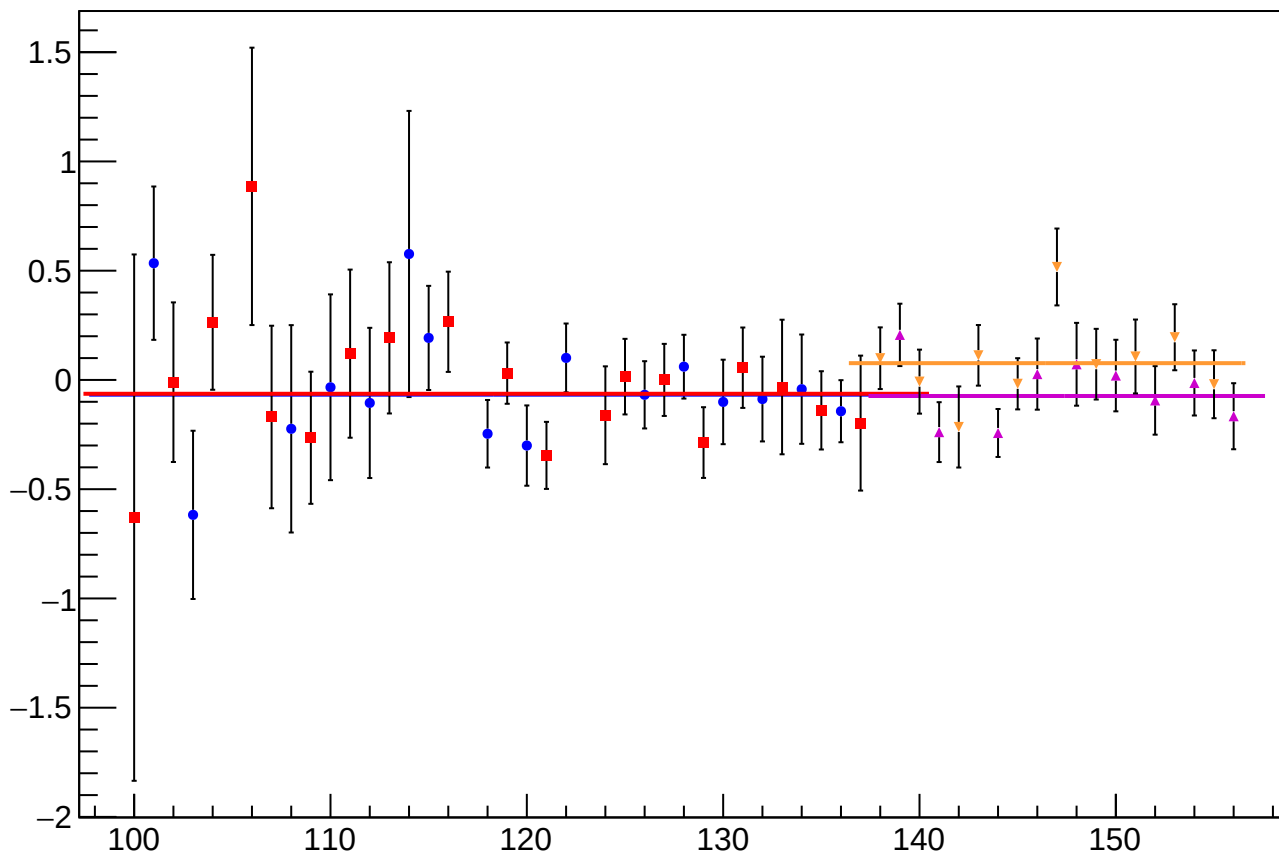
Right: 0.006+/-0.000 χ^2/NDF : 10558524.8/34

In: 0.007+/-0.000 χ^2/NDF : 5855399.6/24

Out: 0.006+/-0.000 χ^2/NDF : 6871486.2/28

All: 0.007+/-0.000 χ^2/NDF : 12869371.2/53

asym_sam2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.077 ± 0.048 $\chi^2/\text{NDF}: 10.8/9$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.073 ± 0.049 $\chi^2/\text{NDF}: 9.5/8$

Left: 0.004 ± 0.034 $\chi^2/\text{NDF}: 25.2/18$

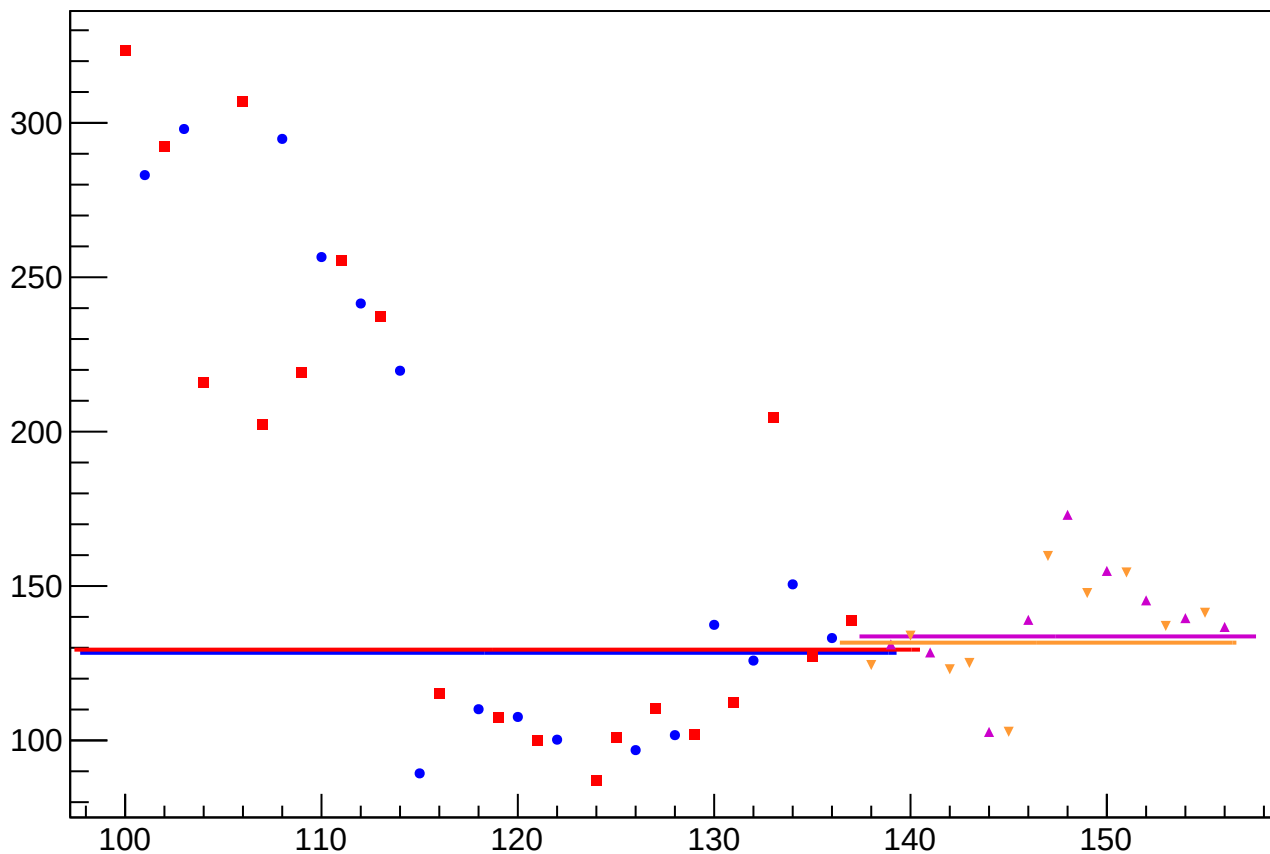
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.071 ± 0.036 $\chi^2/\text{NDF}: 22.0/24$

Out: 0.012 ± 0.035 $\chi^2/\text{NDF}: 28.9/28$

All: -0.028 ± 0.025 $\chi^2/\text{NDF}: 53.6/53$

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: 131.661 $\pm$ 0.034 χ^2 /NDF:253046.6/9

Right Out: 129.396 $\pm$ 0.036 χ^2 /NDF: 1888272.8/18

Left In: 133.677 $\pm$ 0.035 χ^2 /NDF:299482.7/8

Left: 132.641 $\pm$ 0.024 χ^2 /NDF: 554273.7/18

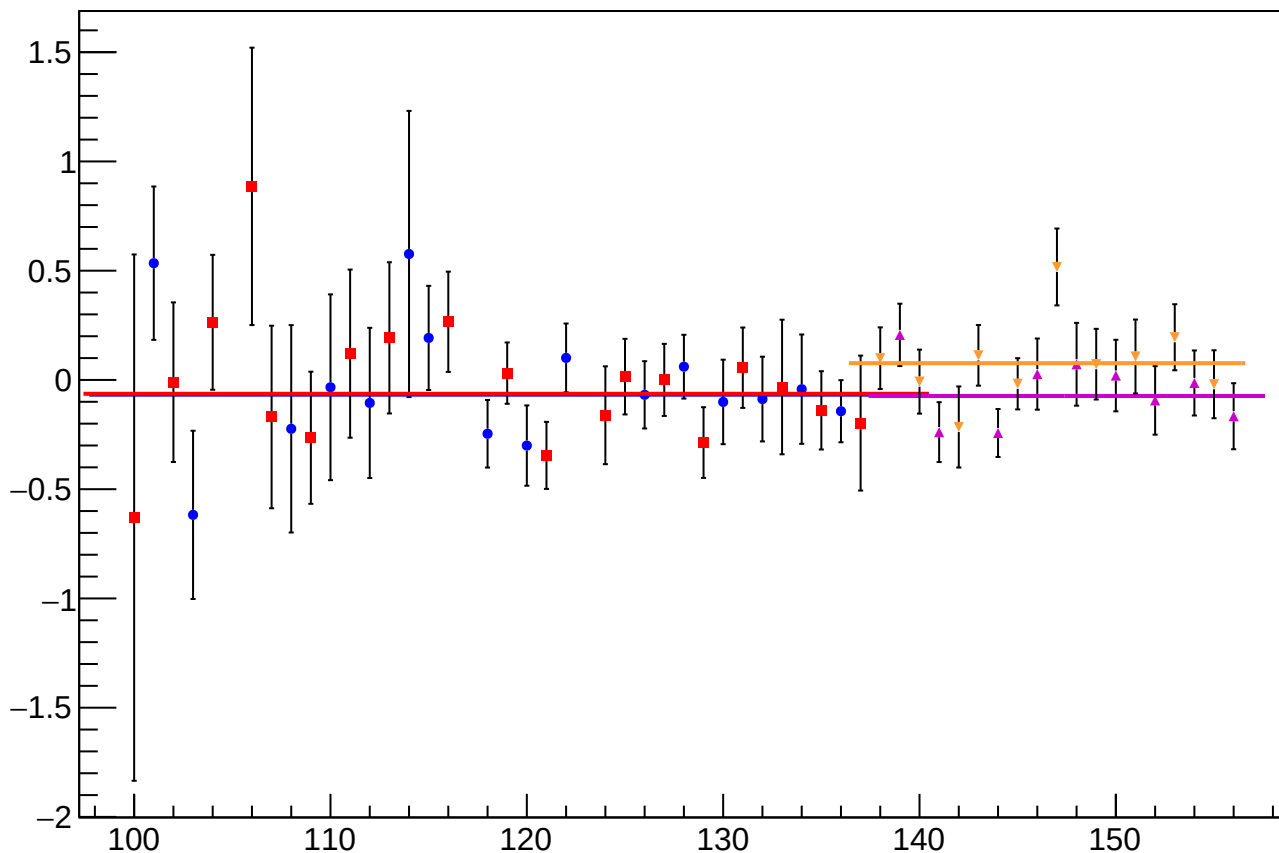
Right: 128.888 $\pm$ 0.026 χ^2 /NDF: 3693688.1/34

In: 131.176 $\pm$ 0.025 χ^2 /NDF:2115582.5/24

Out: 130.620 $\pm$ 0.025 χ^2 /NDF:2143400.8/28

All: 130.894 $\pm$ 0.018 χ^2 /NDF: 4259232.0/53

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: 0.077 ± 0.048 χ^2/NDF : 10.8/9

Right Out: -0.063 ± 0.052 χ^2/NDF : 14.0/18

Left In: -0.073 ± 0.049 χ^2/NDF : 9.5/8

Left: 0.004 ± 0.034 χ^2/NDF : 25.2/18

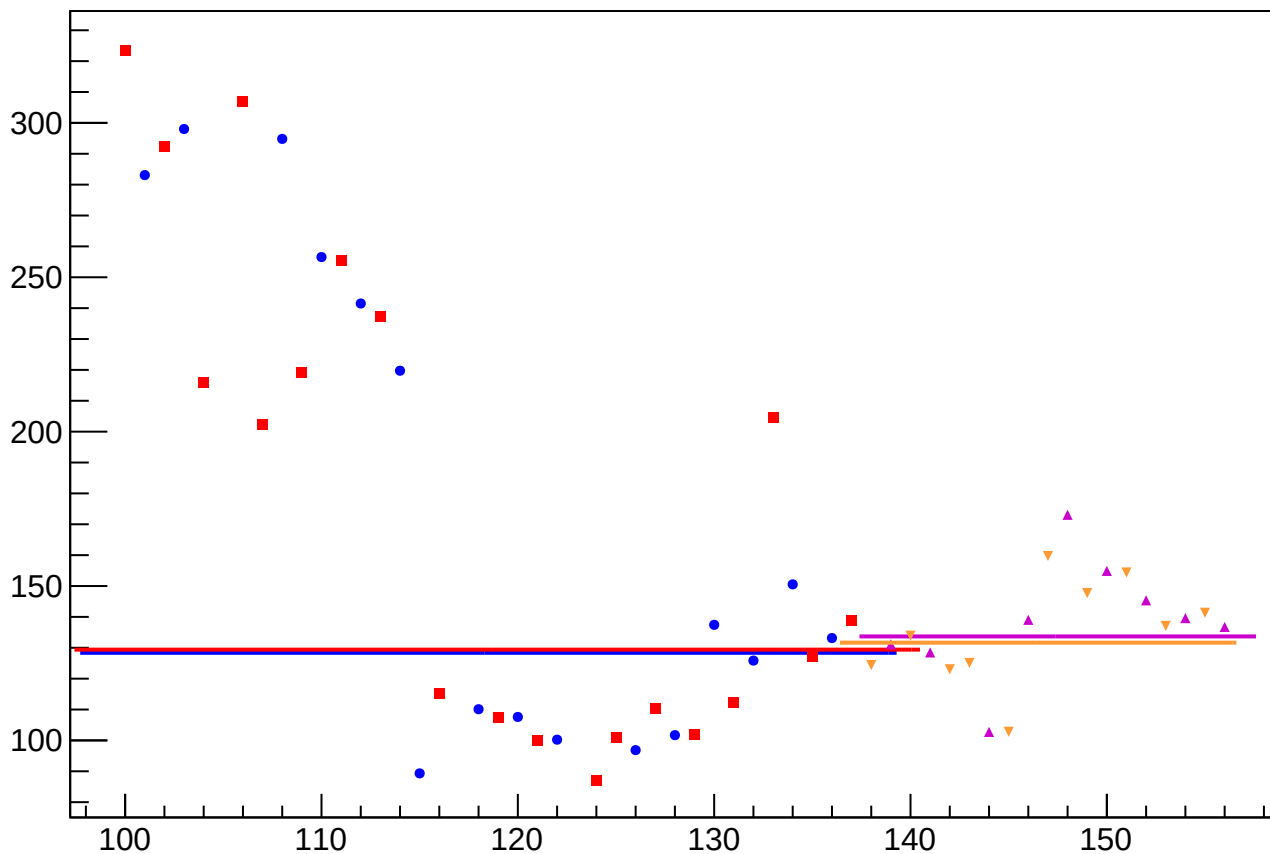
Right: -0.065 ± 0.037 χ^2/NDF : 26.5/34

In: -0.071 ± 0.036 χ^2/NDF : 22.0/24

Out: 0.012 ± 0.035 χ^2/NDF : 28.9/28

All: -0.028 ± 0.025 χ^2/NDF : 53.6/53

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.377+/-0.037

χ^2/NDF : 1805026.7/15

Left Out: 131.661+/-0.034

χ^2/NDF : 253046.6/9

Right Out: 129.396+/-0.036

χ^2/NDF : 1888272.8/18

Left In: 133.677+/-0.035

χ^2/NDF : 299482.7/8

Left: 132.641+/-0.024

χ^2/NDF : 554273.7/18

Right: 128.888+/-0.026

χ^2/NDF : 3693688.1/34

In: 131.176+/-0.025

χ^2/NDF : 2115582.5/24

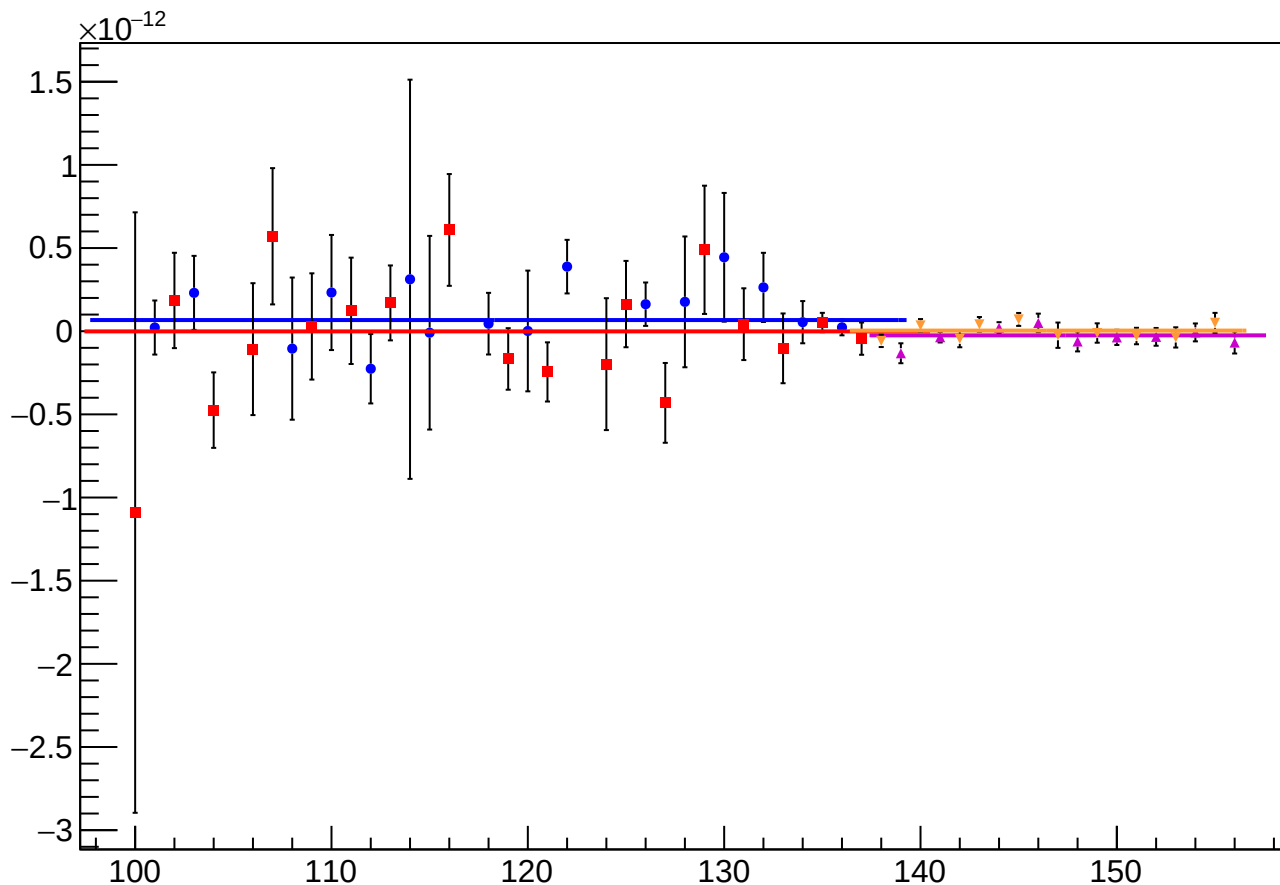
Out: 130.620+/-0.025

χ^2/NDF : 2143400.8/28

All: 130.894+/-0.018

χ^2/NDF : 4259232.0/53

asym_sam2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 10.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:9.8/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 20.7/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:8.0/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 19.5/18

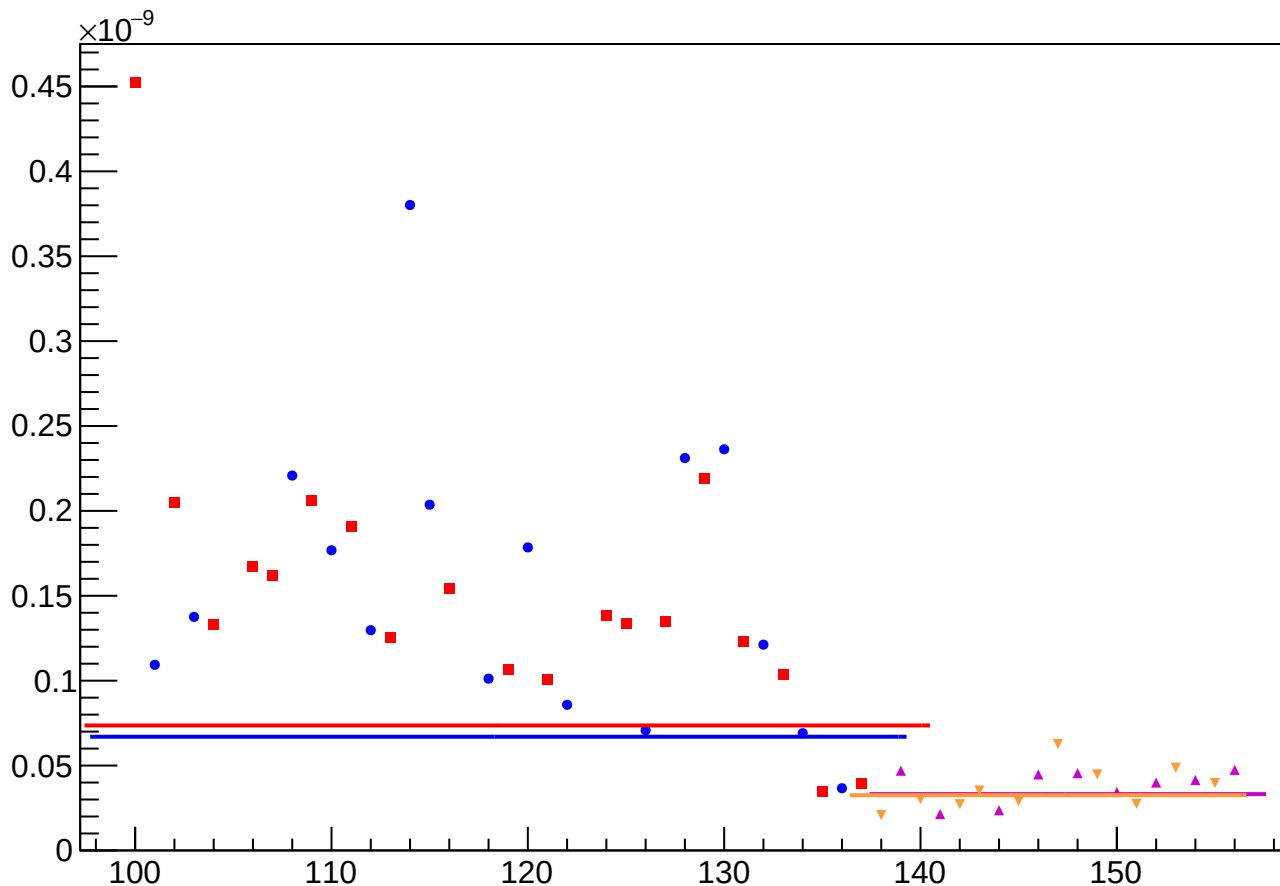
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 32.7/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:23.8/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:30.5/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 54.8/53

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 : 847257.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3653663.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 887081.8/8

Left: 0.000+/-0.000 χ^2/NDF : 1736062.8/18

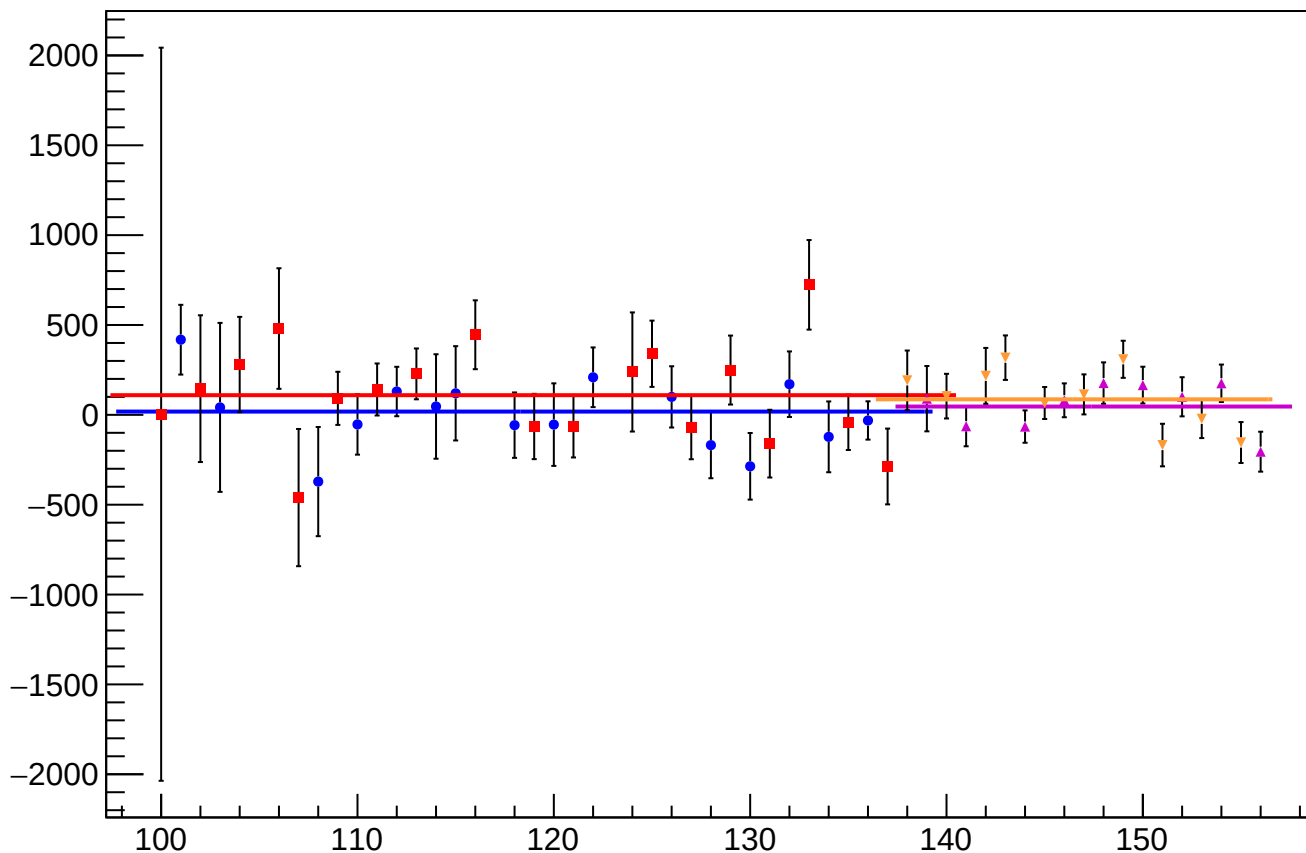
Right: 0.000+/-0.000 χ^2/NDF : 6865290.4/34

In: 0.000+/-0.000 χ^2/NDF : 5547310.4/24

Out: 0.000+/-0.000 χ^2/NDF : 6398072.1/28

All: 0.000+/-0.000 χ^2/NDF : 11947413.2/53

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.204+/-45.704 χ^2/NDF : 13.9/15

Left Out: 86.311+/-36.672 χ^2/NDF : 19.5/9

Right Out: 109.432+/-45.825 χ^2/NDF : 25.5/18

Left In: 46.276+/-35.920 χ^2/NDF : 12.2/8

Left: 65.879+/-25.661 χ^2/NDF : 32.4/18

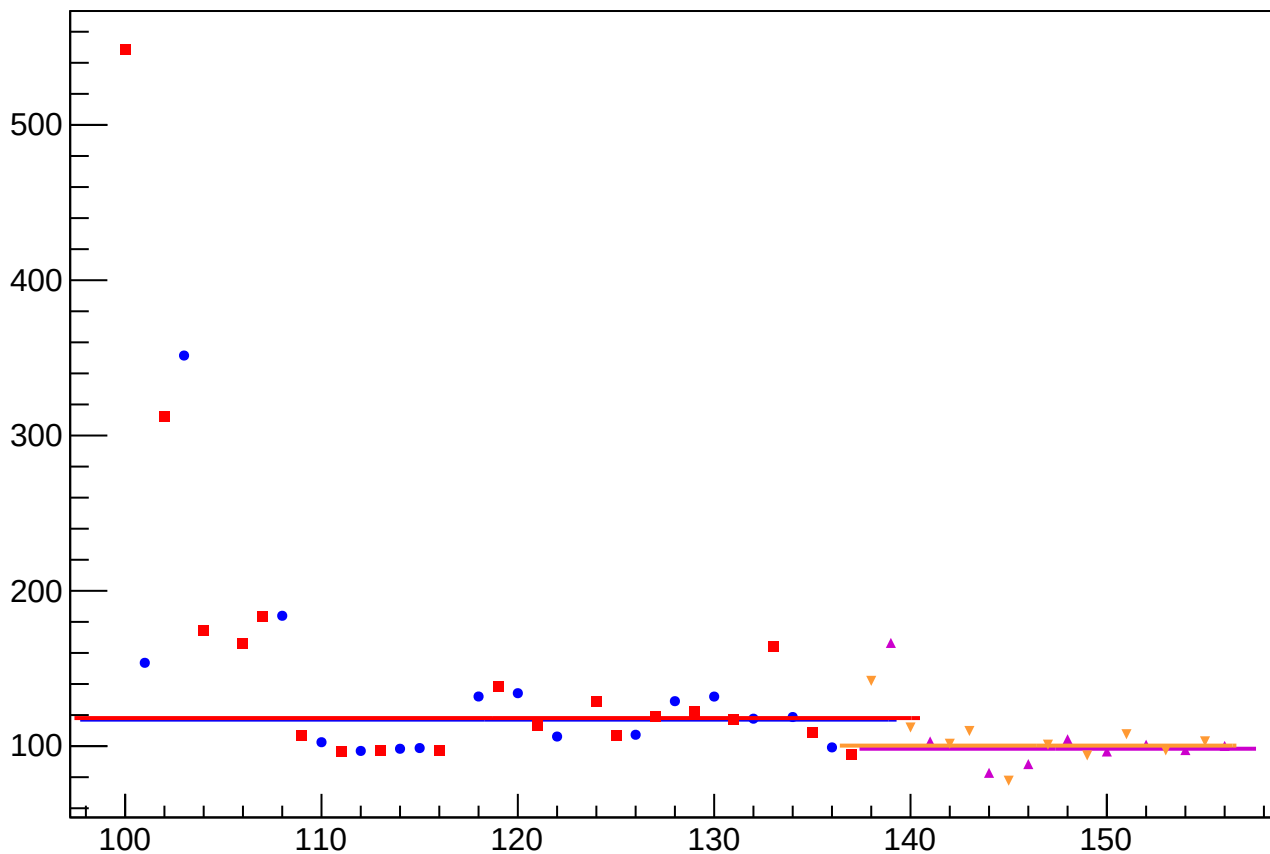
Right: 63.698+/-32.360 χ^2/NDF : 41.3/34

In: 35.557+/-28.242 χ^2/NDF : 26.3/24

Out: 95.338+/-28.632 χ^2/NDF : 45.1/28

All: 65.037+/-20.107 χ^2/NDF : 73.7/53

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858400.8/15

Left Out: 100.334 $\pm$ 0.026 χ^2 /NDF:302219.3/9

Right Out: 118.057 $\pm$ 0.032 χ^2 /NDF: 990748.0/18

Left In: 98.320 $\pm$ 0.025 χ^2 /NDF:373983.1/8

Left: 99.306 $\pm$ 0.018 χ^2 /NDF: 679280.0/18

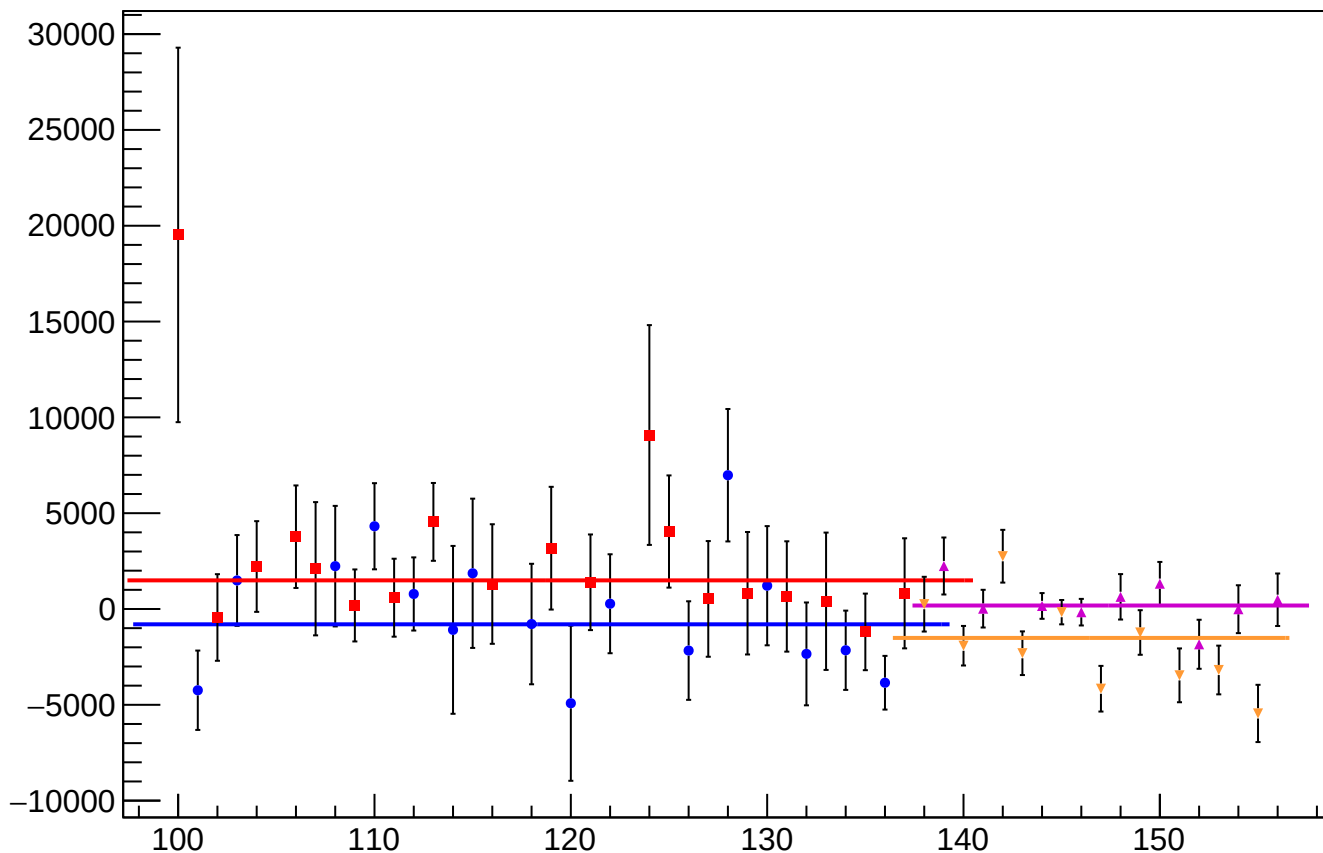
Right: 117.559 $\pm$ 0.023 χ^2 /NDF: 1849621.4/34

In: 105.477 $\pm$ 0.020 χ^2 /NDF:1440295.7/24

Out: 107.253 $\pm$ 0.020 χ^2 /NDF:1475352.4/28

All: 106.353 $\pm$ 0.014 χ^2 /NDF: 2919550.6/53

asym_sam3_reg_correction_mean vs Slug, Sign Corrected



Right In: -799.133+/-616.009 χ^2/NDF : 23.4/15

Left Out: -1509.499+/-348.730 χ^2/NDF :31.9/9

Right Out: 1493.897+/-613.097 χ^2/NDF : 12.9/18

Left In: 181.763+/-332.270 χ^2/NDF :5.9/8

Left: -623.013+/-240.559 χ^2/NDF : 50.1/18

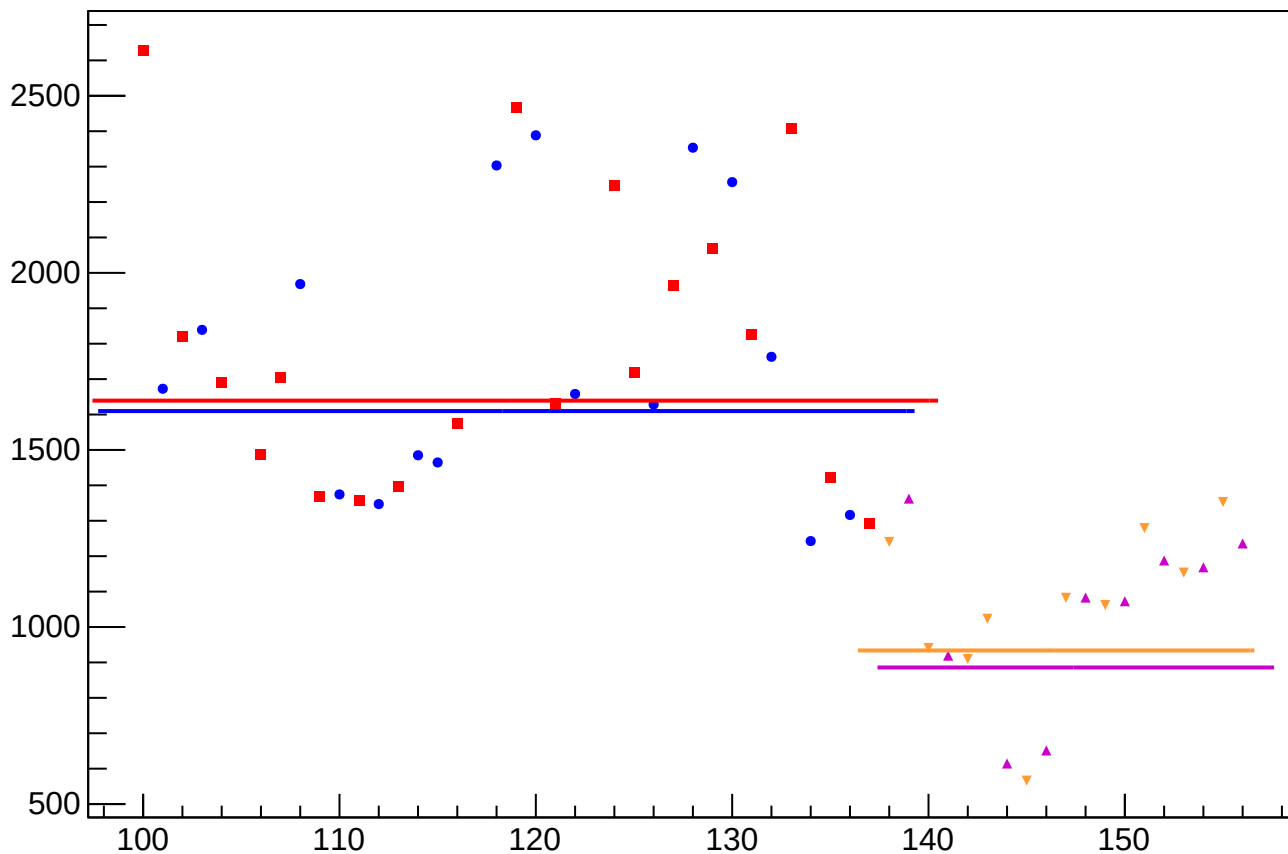
Right: 352.815+/-434.551 χ^2/NDF : 43.3/34

In: -39.304+/-292.440 χ^2/NDF :31.3/24

Out: -775.326+/-303.125 χ^2/NDF :62.9/28

All: -394.115+/-210.463 χ^2/NDF : 97.3/53

asym_sam3_reg_correction_rms vs Slug, Sign Corrected



Right In: 1609.782 $\pm$ 0.436 χ^2 /NDF: 619129.2/15

Left Out: 933.821 $\pm$ 0.247 χ^2 /NDF: 1168673.5/9

Right Out: 1639.241 $\pm$ 0.434 χ^2 /NDF: 520182.2/18

Left In: 885.717 $\pm$ 0.235 χ^2 /NDF: 1217230.3/8

Left: 908.607 $\pm$ 0.170 χ^2 /NDF: 2405850.2/18

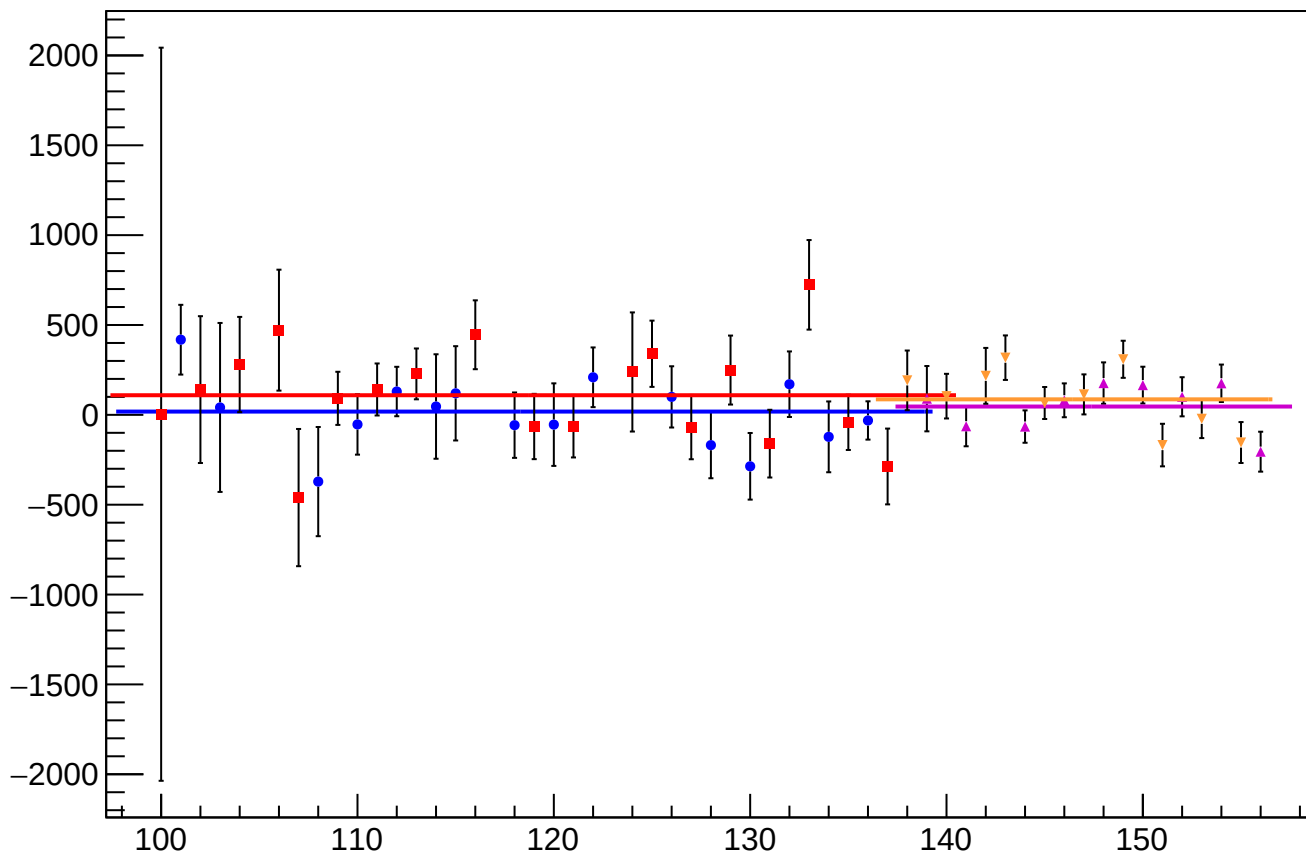
Right: 1624.581 $\pm$ 0.307 χ^2 /NDF: 1141609.2/34

In: 1048.901 $\pm$ 0.207 χ^2 /NDF: 3976800.3/24

Out: 1106.259 $\pm$ 0.214 χ^2 /NDF: 3689327.1/28

All: 1076.551 $\pm$ 0.149 χ^2 /NDF: 7703216.2/53

cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191 $\pm$ 45.704 χ^2/NDF : 13.9/15

Left Out: 86.317 $\pm$ 36.672 χ^2/NDF :19.5/9

Right Out: 109.151 $\pm$ 45.828 χ^2/NDF : 25.4/18

Left In: 46.277 $\pm$ 35.920 χ^2/NDF :12.2/8

Left: 65.883 $\pm$ 25.661 χ^2/NDF : 32.4/18

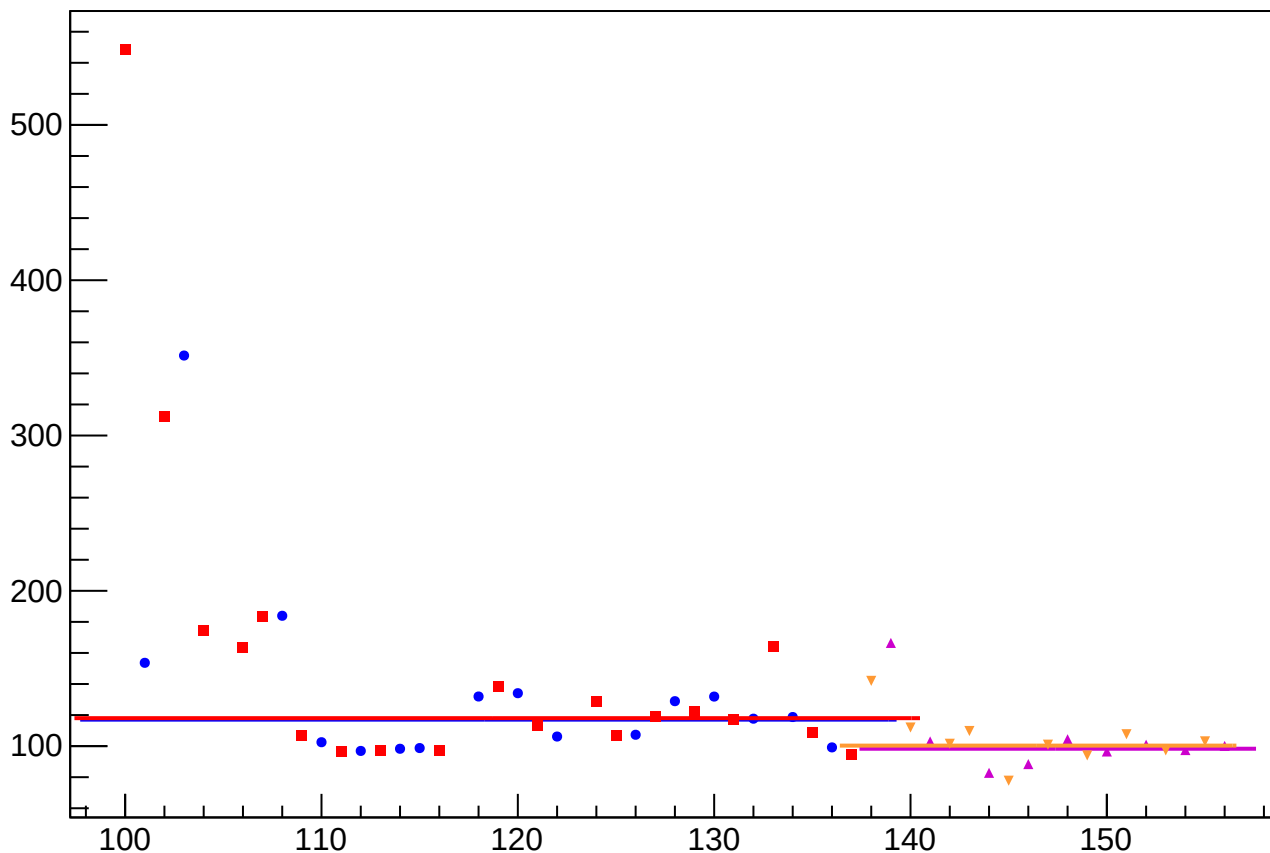
Right: 63.548 $\pm$ 32.361 χ^2/NDF : 41.2/34

In: 35.553 $\pm$ 28.242 χ^2/NDF :26.3/24

Out: 95.230 $\pm$ 28.633 χ^2/NDF :45.1/28

All: 64.981 $\pm$ 20.107 χ^2/NDF : 73.6/53

cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858402.8/15

Left Out: 100.334 $\pm$ 0.026 χ^2 /NDF:302219.3/9

Right Out: 118.006 $\pm$ 0.032 χ^2 /NDF: 986553.8/18

Left In: 98.320 $\pm$ 0.025 χ^2 /NDF:373983.1/8

Left: 99.306 $\pm$ 0.018 χ^2 /NDF: 679280.0/18

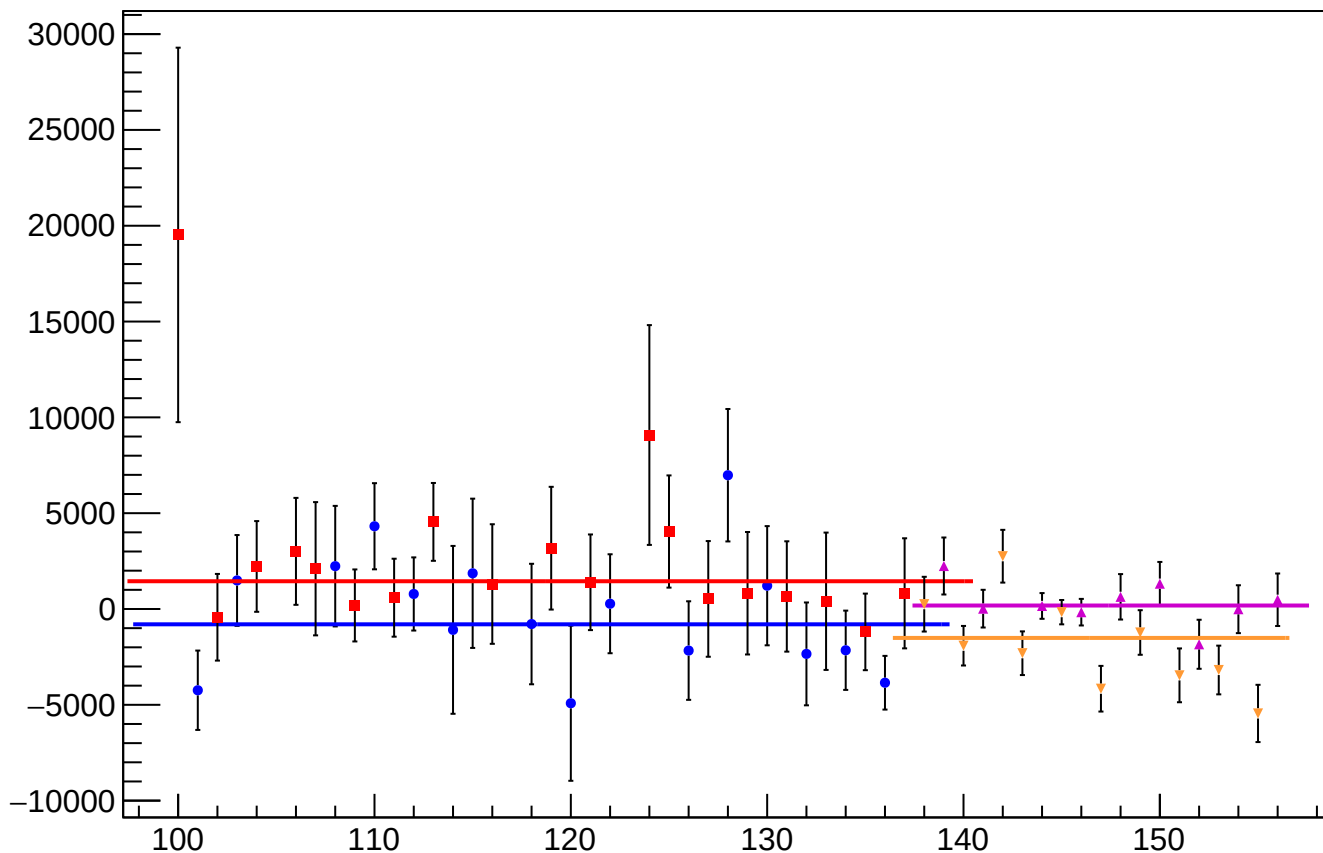
Right: 117.533 $\pm$ 0.023 χ^2 /NDF: 1845381.4/34

In: 105.477 $\pm$ 0.020 χ^2 /NDF:1440297.6/24

Out: 107.232 $\pm$ 0.020 χ^2 /NDF:1470079.4/28

All: 106.342 $\pm$ 0.014 χ^2 /NDF: 2914188.7/53

asym_sam3_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116+/-616.014 χ^2/NDF : 23.4/15

Left Out: -1509.491+/-348.730 χ^2/NDF :31.9/9

Right Out: 1448.433+/-614.443 χ^2/NDF : 12.5/18

Left In: 181.771+/-332.270 χ^2/NDF :5.9/8

Left: -623.005+/-240.559 χ^2/NDF : 50.1/18

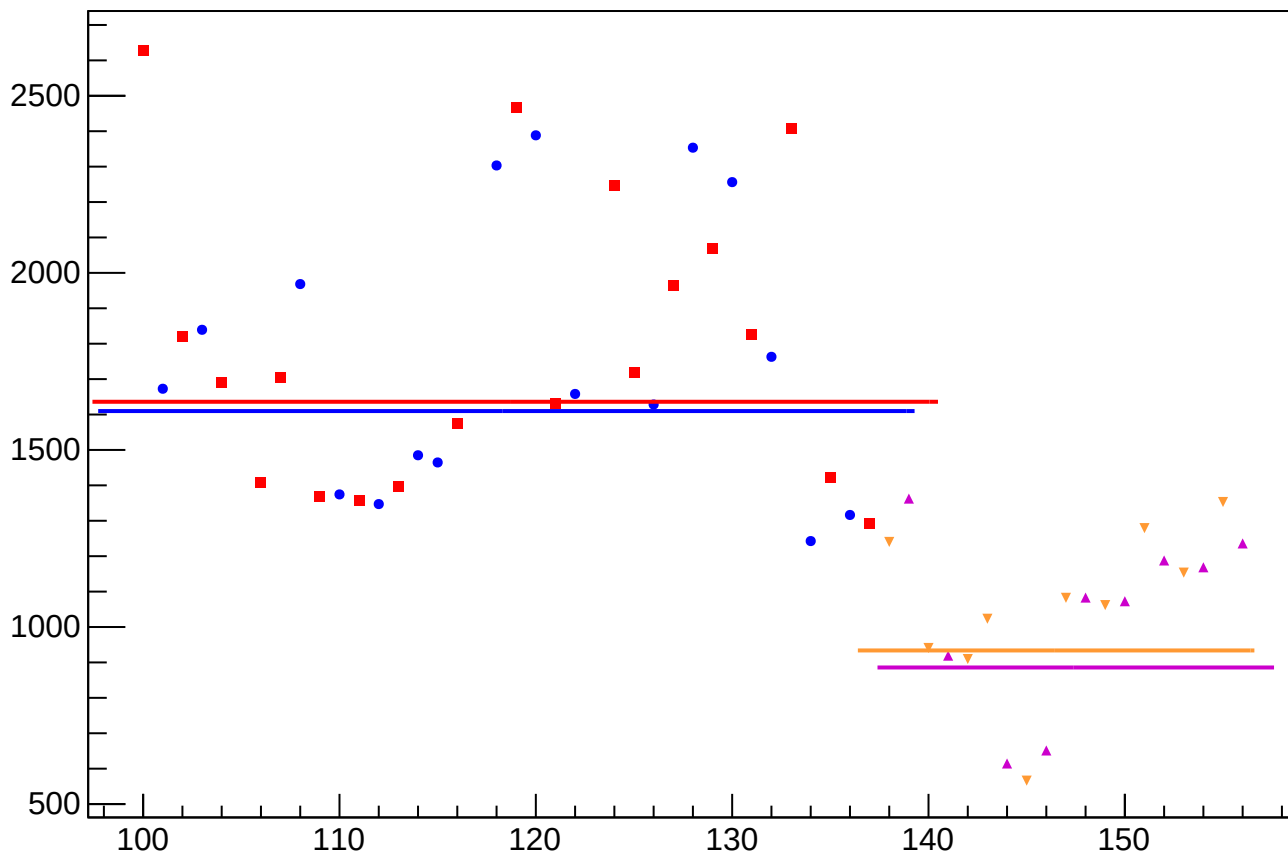
Right: 327.528+/-435.031 χ^2/NDF : 42.6/34

In: -39.292+/-292.441 χ^2/NDF :31.3/24

Out: -788.828+/-303.287 χ^2/NDF :61.9/28

All: -400.417+/-210.517 χ^2/NDF : 96.4/53

asym_sam3_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 933.820+/-0.247 χ^2/NDF : 1168674.2/9

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 885.717+/-0.235 χ^2/NDF : 1217232.6/8

Left: 908.606+/-0.170 χ^2/NDF : 2405853.2/18

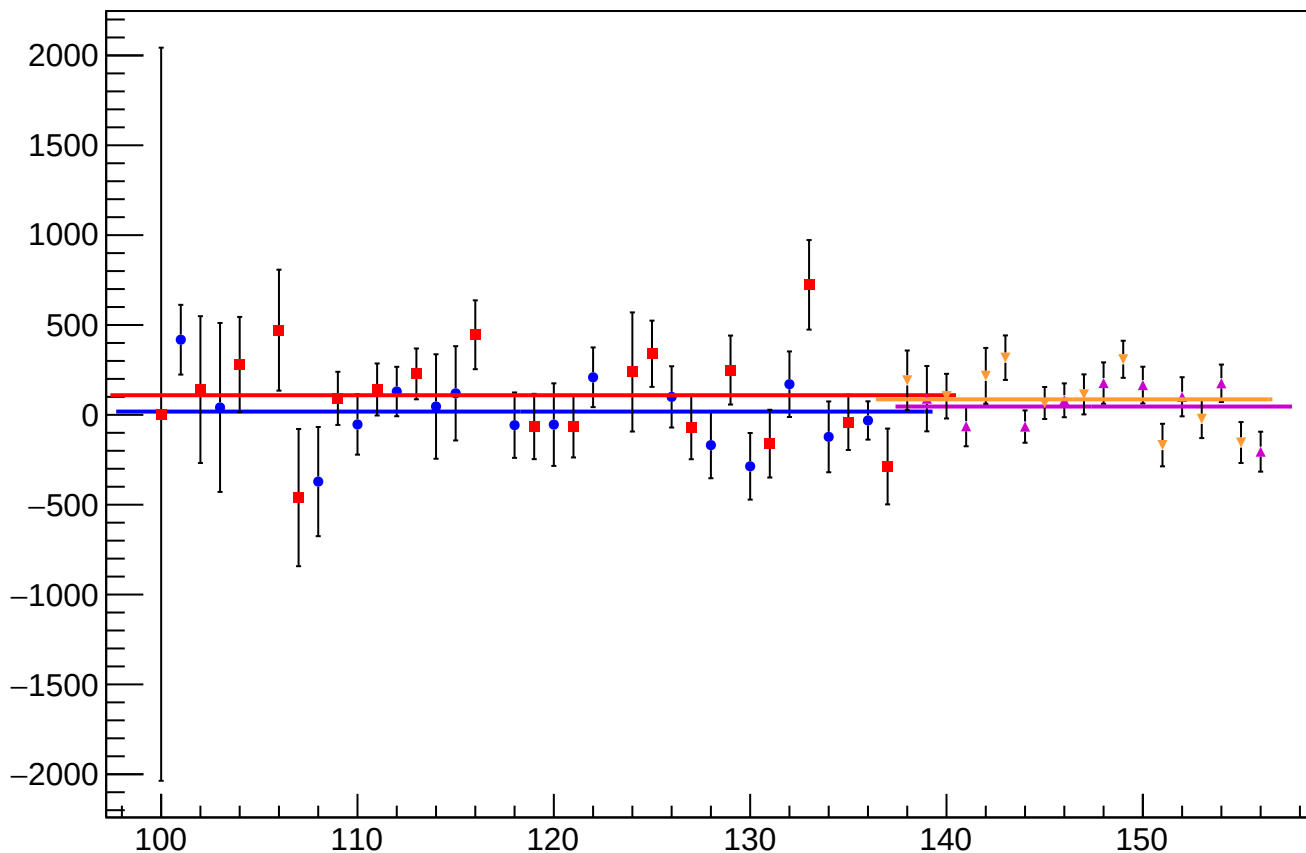
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 1048.901+/-0.207 χ^2/NDF : 3976864.3/24

Out: 1104.909+/-0.214 χ^2/NDF : 3672315.3/28

All: 1075.886+/-0.149 χ^2/NDF : 7684523.8/53

eigen_cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191+/-45.704 χ^2/NDF : 13.9/15

Left Out: 86.317+/-36.672 χ^2/NDF :19.5/9

Right Out: 109.151+/-45.828 χ^2/NDF : 25.4/18

Left In: 46.277+/-35.920 χ^2/NDF :12.2/8

Left: 65.883+/-25.661 χ^2/NDF : 32.4/18

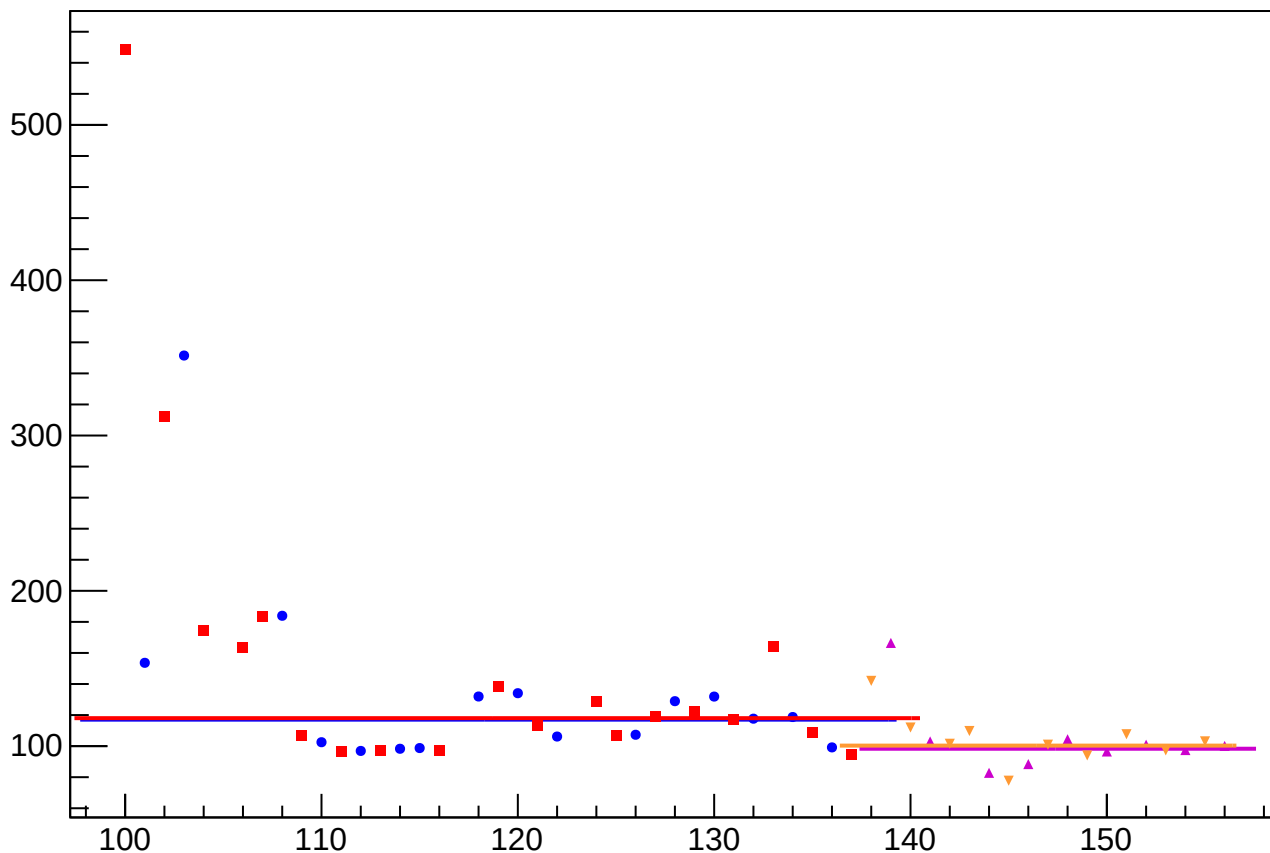
Right: 63.548+/-32.361 χ^2/NDF : 41.2/34

In: 35.553+/-28.242 χ^2/NDF :26.3/24

Out: 95.230+/-28.633 χ^2/NDF :45.1/28

All: 64.981+/-20.107 χ^2/NDF : 73.6/53

eigen_cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063+/-0.032 χ^2/NDF : 858402.8/15

Left Out: 100.334+/-0.026 χ^2/NDF :302219.3/9

Right Out: 118.006+/-0.032 χ^2/NDF : 986553.8/18

Left In: 98.320+/-0.025 χ^2/NDF :373983.1/8

Left: 99.306+/-0.018 χ^2/NDF : 679280.0/18

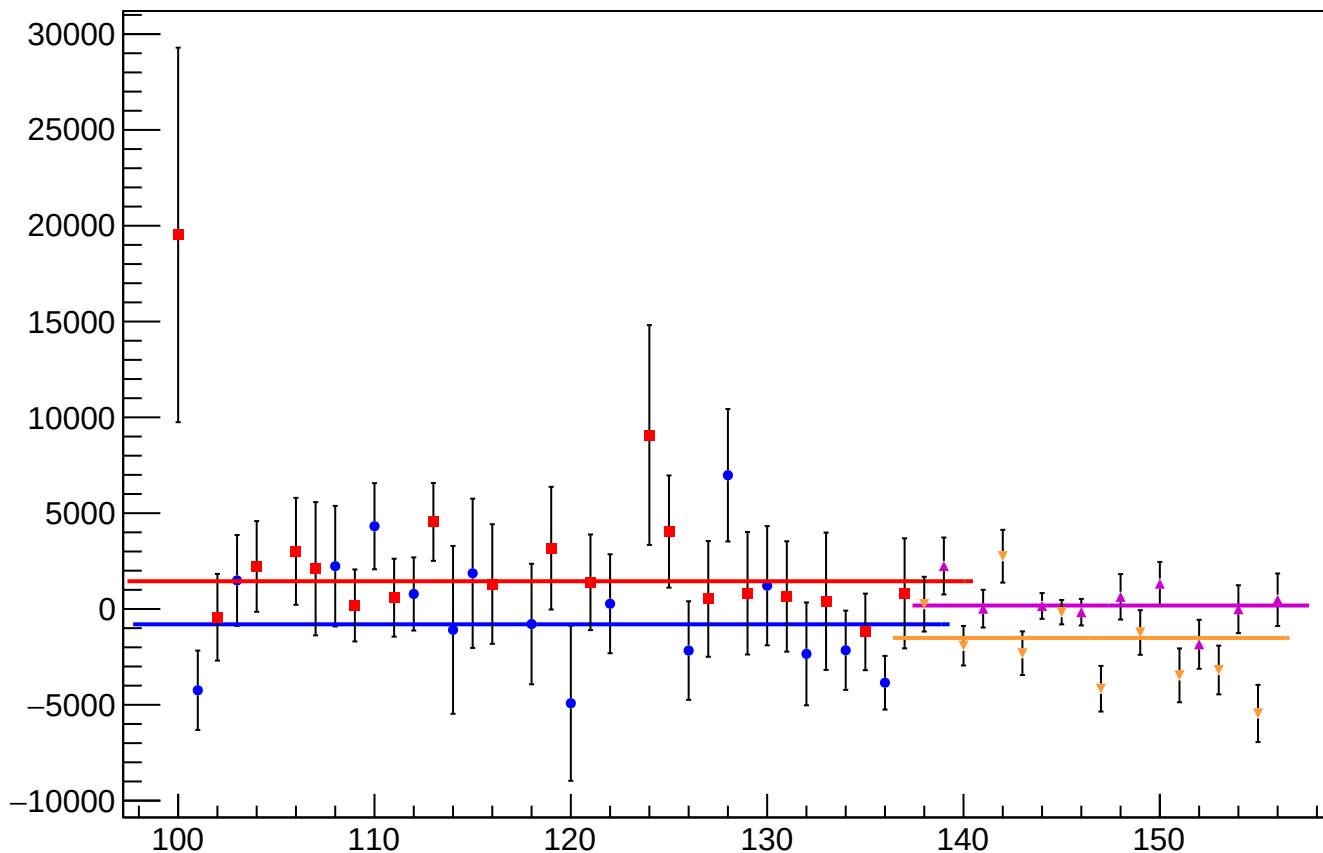
Right: 117.533+/-0.023 χ^2/NDF : 1845381.4/34

In: 105.477+/-0.020 χ^2/NDF :1440297.6/24

Out: 107.232+/-0.020 χ^2/NDF :1470079.4/28

All: 106.342+/-0.014 χ^2/NDF : 2914188.7/53

asym_sam3_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116+/-616.014 χ^2/NDF : 23.4/15

Left Out: -1509.491+/-348.730 χ^2/NDF :31.9/9

Right Out: 1448.433+/-614.443 χ^2/NDF : 12.5/18

Left In: 181.771+/-332.270 χ^2/NDF :5.9/8

Left: -623.005+/-240.559 χ^2/NDF : 50.1/18

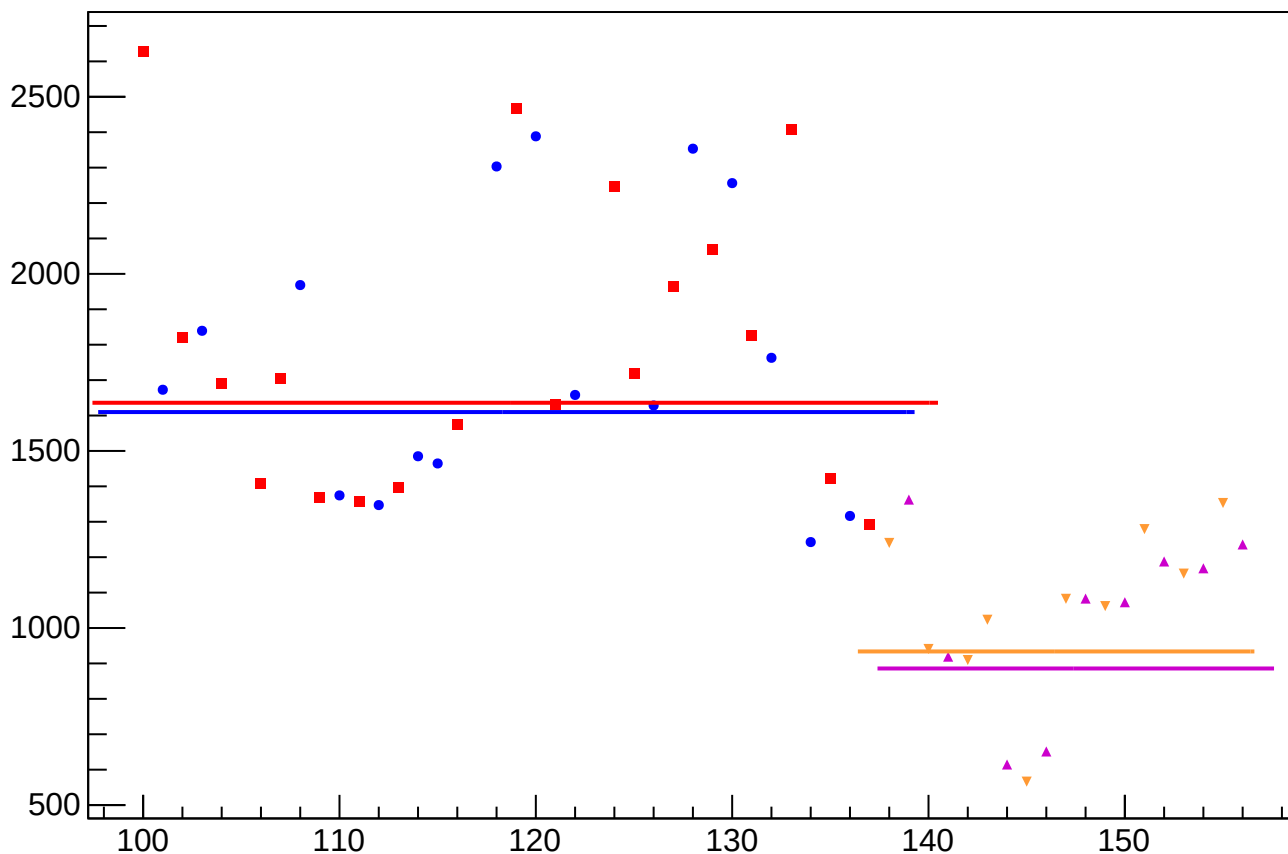
Right: 327.528+/-435.031 χ^2/NDF : 42.6/34

In: -39.292+/-292.441 χ^2/NDF :31.3/24

Out: -788.828+/-303.287 χ^2/NDF :61.9/28

All: -400.417+/-210.517 χ^2/NDF : 96.4/53

asym_sam3_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 933.820+/-0.247 χ^2/NDF : 1168674.2/9

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 885.717+/-0.235 χ^2/NDF : 1217232.6/8

Left: 908.606+/-0.170 χ^2/NDF : 2405853.2/18

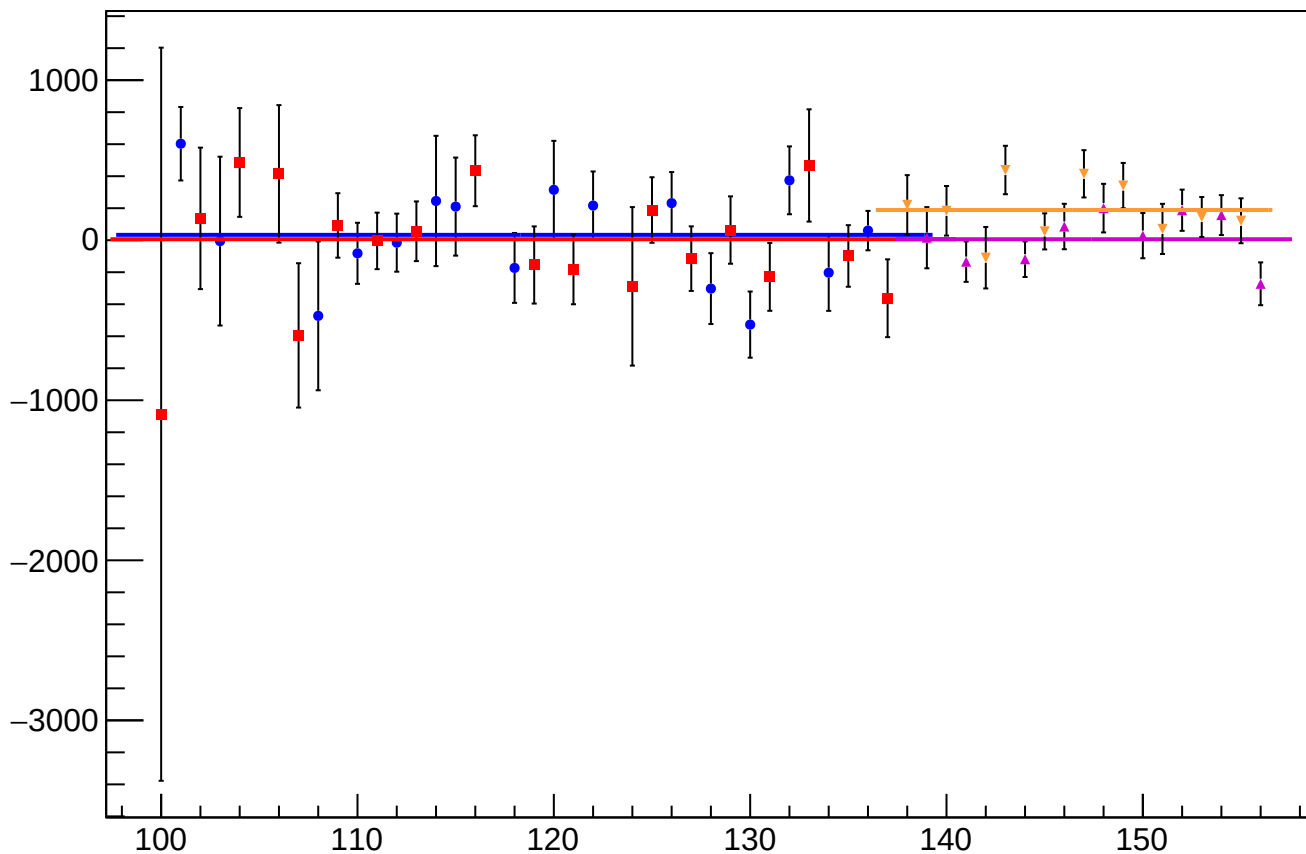
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 1048.901+/-0.207 χ^2/NDF : 3976864.3/24

Out: 1104.909+/-0.214 χ^2/NDF : 3672315.3/28

All: 1075.886+/-0.149 χ^2/NDF : 7684523.8/53

dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.471 $\pm$ 54.908 χ^2 /NDF: 25.2/15

Left Out: 188.672 $\pm$ 46.058 χ^2 /NDF:11.0/9

Right Out: 6.107 $\pm$ 56.090 χ^2 /NDF: 17.3/18

Left In: 6.069 $\pm$ 44.973 χ^2 /NDF:12.2/8

Left: 95.194 $\pm$ 32.178 χ^2 /NDF: 31.3/18

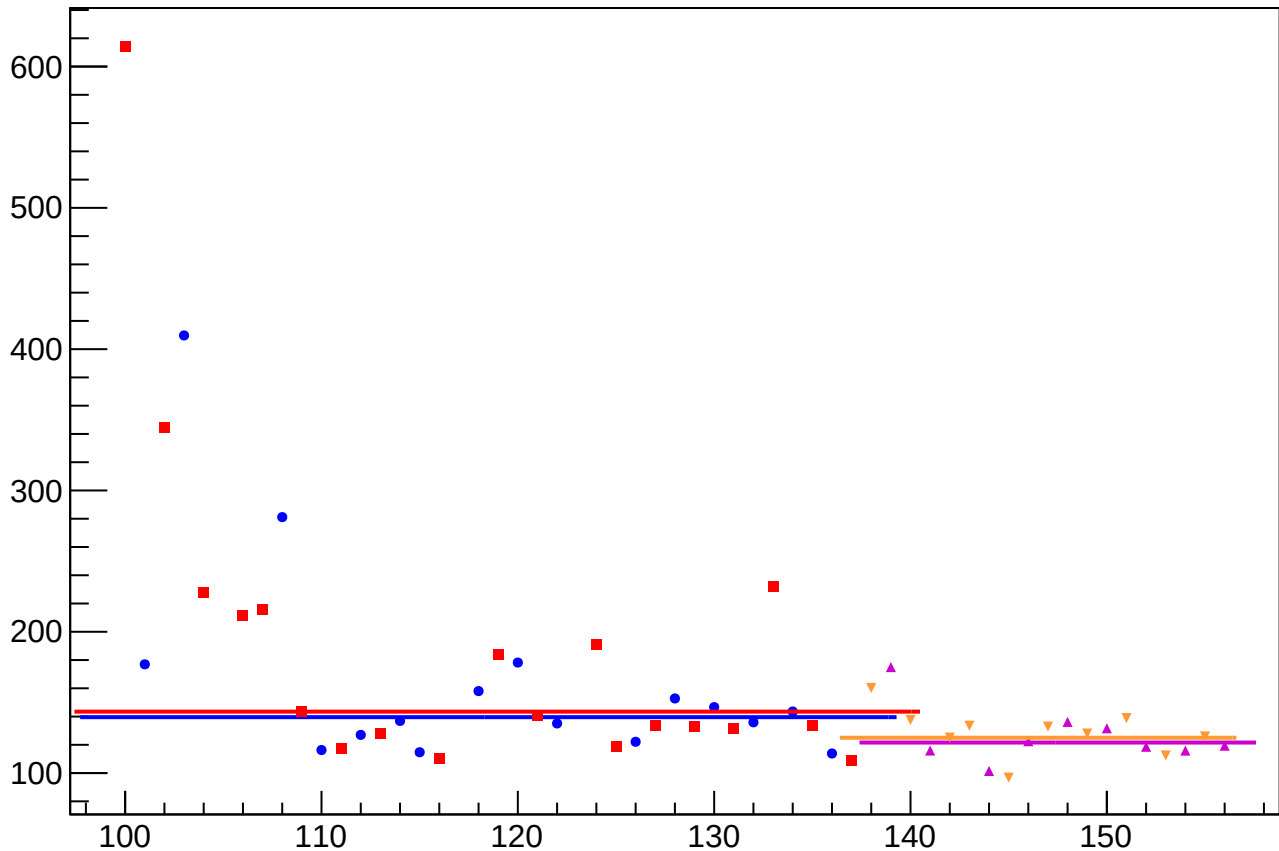
Right: 20.080 $\pm$ 39.237 χ^2 /NDF: 42.6/34

In: 17.071 $\pm$ 34.792 χ^2 /NDF:37.6/24

Out: 115.148 $\pm$ 35.595 χ^2 /NDF:34.6/28

All: 64.990 $\pm$ 24.881 χ^2 /NDF: 76.1/53

dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.566 $\pm$ 0.039 χ^2 /NDF: 976734.6/15

Left Out: 125.013 $\pm$ 0.033 χ^2 /NDF: 259466.1/9

Right Out: 143.479 $\pm$ 0.040 χ^2 /NDF: 1116671.9/18

Left In: 121.615 $\pm$ 0.032 χ^2 /NDF: 259854.9/8

Left: 123.274 $\pm$ 0.023 χ^2 /NDF: 524893.4/18

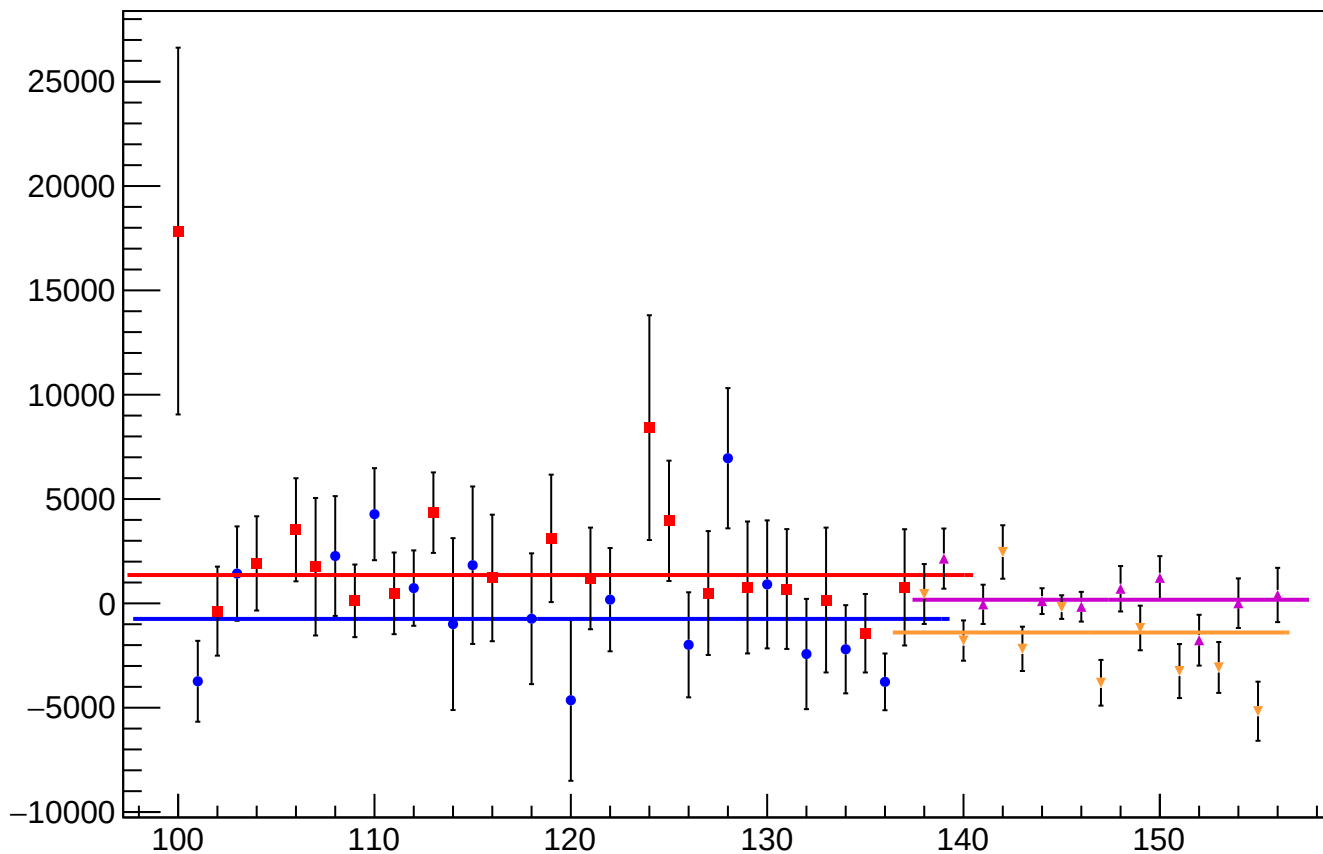
Right: 141.481 $\pm$ 0.028 χ^2 /NDF: 2098376.6/34

In: 128.823 $\pm$ 0.025 χ^2 /NDF: 1364527.8/24

Out: 132.450 $\pm$ 0.025 χ^2 /NDF: 1505608.3/28

All: 130.595 $\pm$ 0.018 χ^2 /NDF: 2880757.1/53

asym_sam3_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.681+/-595.810 χ^2/NDF : 23.5/15

Left Out: -1395.297+/-321.884 χ^2/NDF :31.9/9

Right Out: 1357.874+/-585.808 χ^2/NDF : 13.5/18

Left In: 173.661+/-317.110 χ^2/NDF :6.0/8

Left: -599.097+/-225.899 χ^2/NDF : 50.0/18

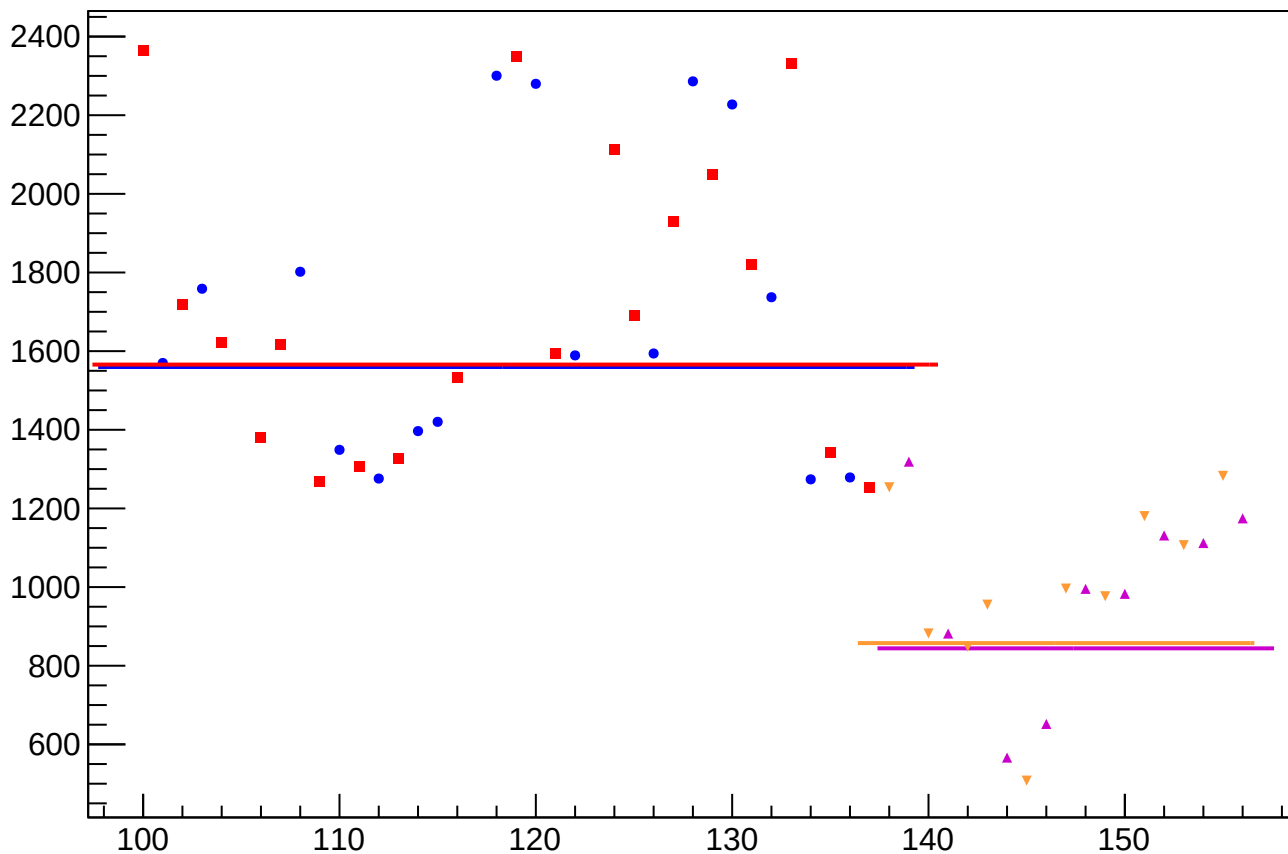
Right: 324.392+/-417.720 χ^2/NDF : 43.3/34

In: -29.056+/-279.930 χ^2/NDF :31.3/24

Out: -756.832+/-282.103 χ^2/NDF :62.4/28

All: -390.131+/-198.704 χ^2/NDF : 97.1/53

asym_sam3_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.735 $\pm$ 0.421 χ^2 /NDF: 604209.5/15

Left Out: 857.548 $\pm$ 0.228 χ^2 /NDF:1379599.0/9

Right Out: 1565.808 $\pm$ 0.414 χ^2 /NDF: 563847.8/18

Left In: 844.164 $\pm$ 0.224 χ^2 /NDF:1186085.0/8

Left: 850.756 $\pm$ 0.160 χ^2 /NDF: 2567439.0/18

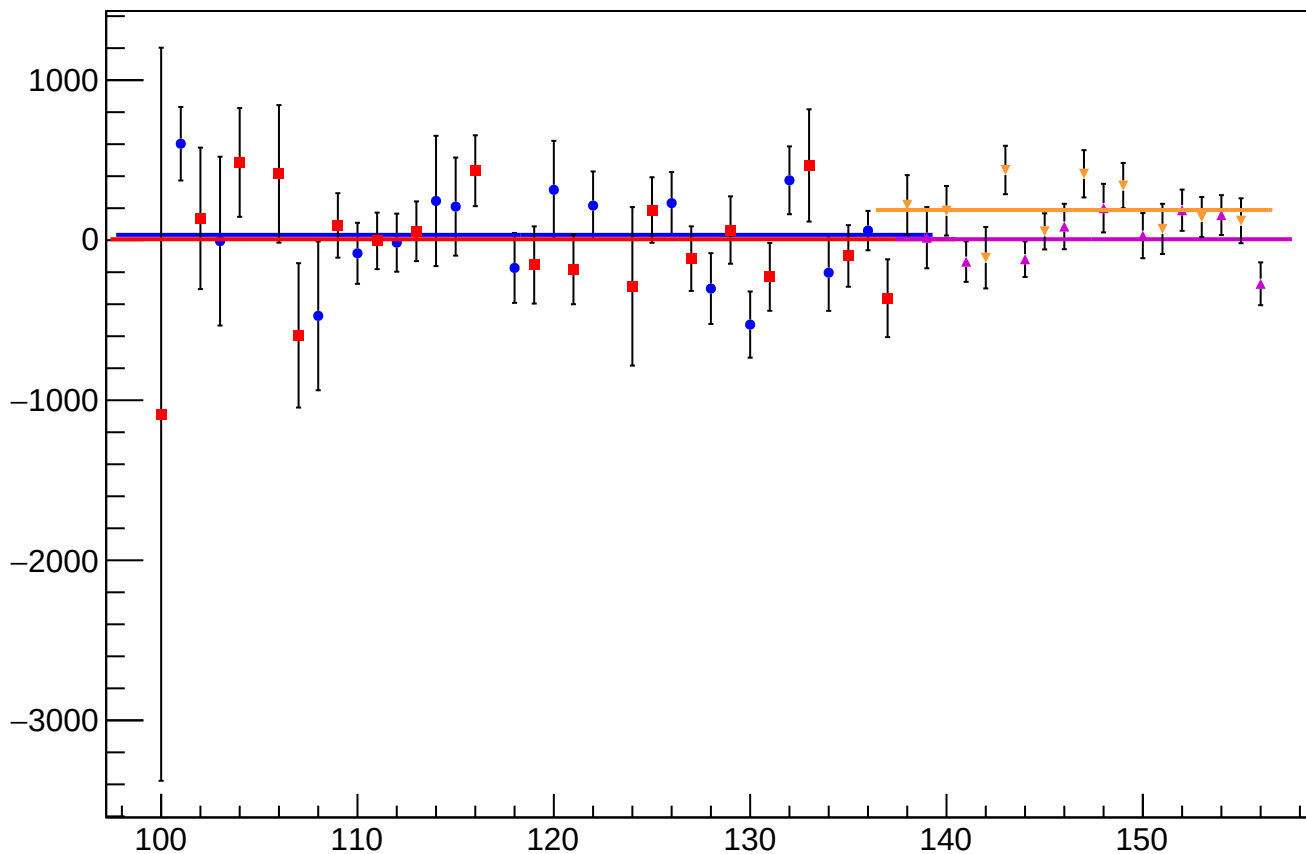
Right: 1562.823 $\pm$ 0.295 χ^2 /NDF: 1168163.0/34

In: 1002.121 $\pm$ 0.198 χ^2 /NDF:4038324.1/24

Out: 1021.795 $\pm$ 0.199 χ^2 /NDF:4188988.4/28

All: 1011.882 $\pm$ 0.141 χ^2 /NDF: 8232214.1/53

eigen_dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.469+/-54.908 χ^2/NDF : 25.2/15

Left Out: 188.675+/-46.059 χ^2/NDF : 11.0/9

Right Out: 6.103+/-56.090 χ^2/NDF : 17.3/18

Left In: 6.069+/-44.973 χ^2/NDF : 12.2/8

Left: 95.195+/-32.178 χ^2/NDF : 31.3/18

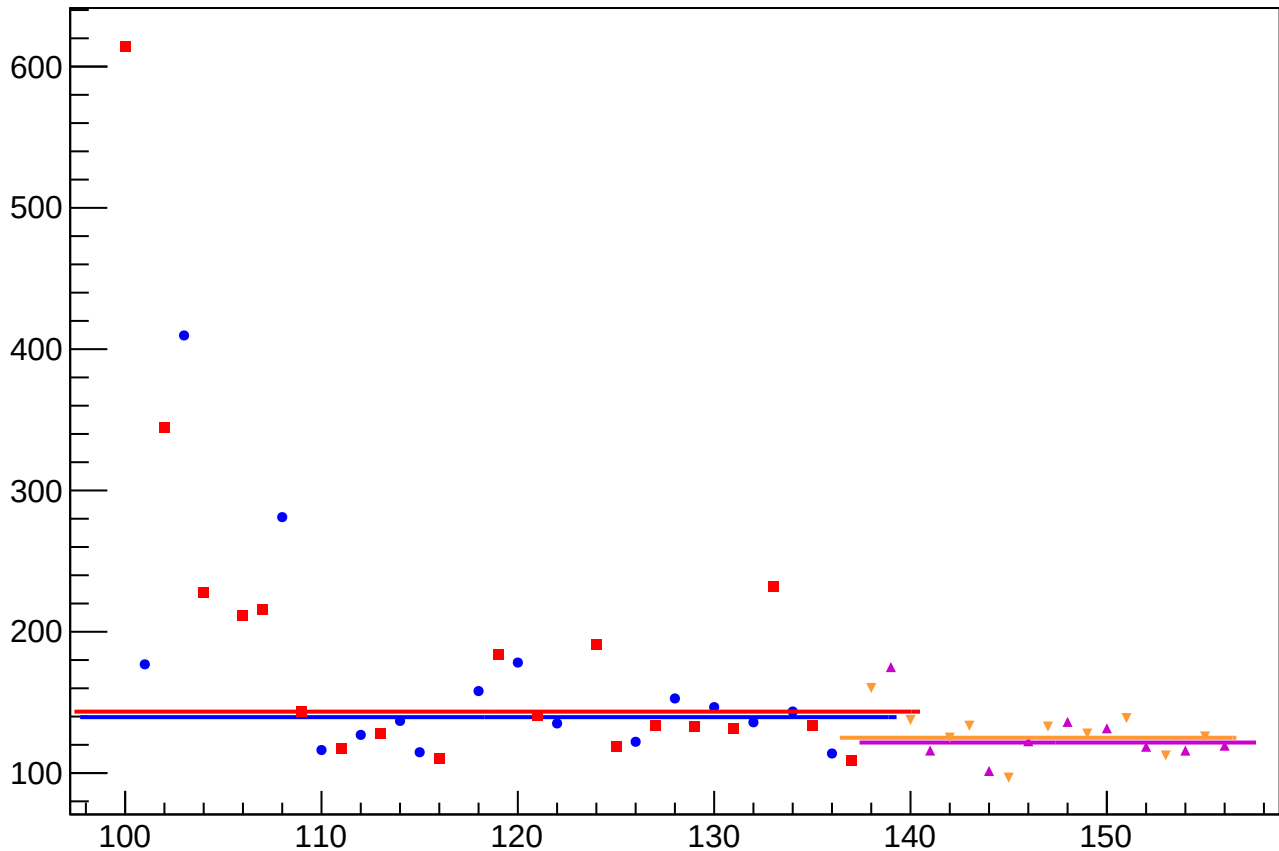
Right: 20.078+/-39.237 χ^2/NDF : 42.6/34

In: 17.070+/-34.792 χ^2/NDF : 37.6/24

Out: 115.147+/-35.596 χ^2/NDF : 34.6/28

All: 64.990+/-24.881 χ^2/NDF : 76.1/53

eigen_dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.567 $\pm$ 0.039 χ^2 /NDF: 976737.0/15

Left Out: 125.014 $\pm$ 0.033 χ^2 /NDF: 259470.9/9

Right Out: 143.480 $\pm$ 0.040 χ^2 /NDF: 1116678.4/18

Left In: 121.616 $\pm$ 0.032 χ^2 /NDF: 259851.2/8

Left: 123.275 $\pm$ 0.023 χ^2 /NDF: 524894.7/18

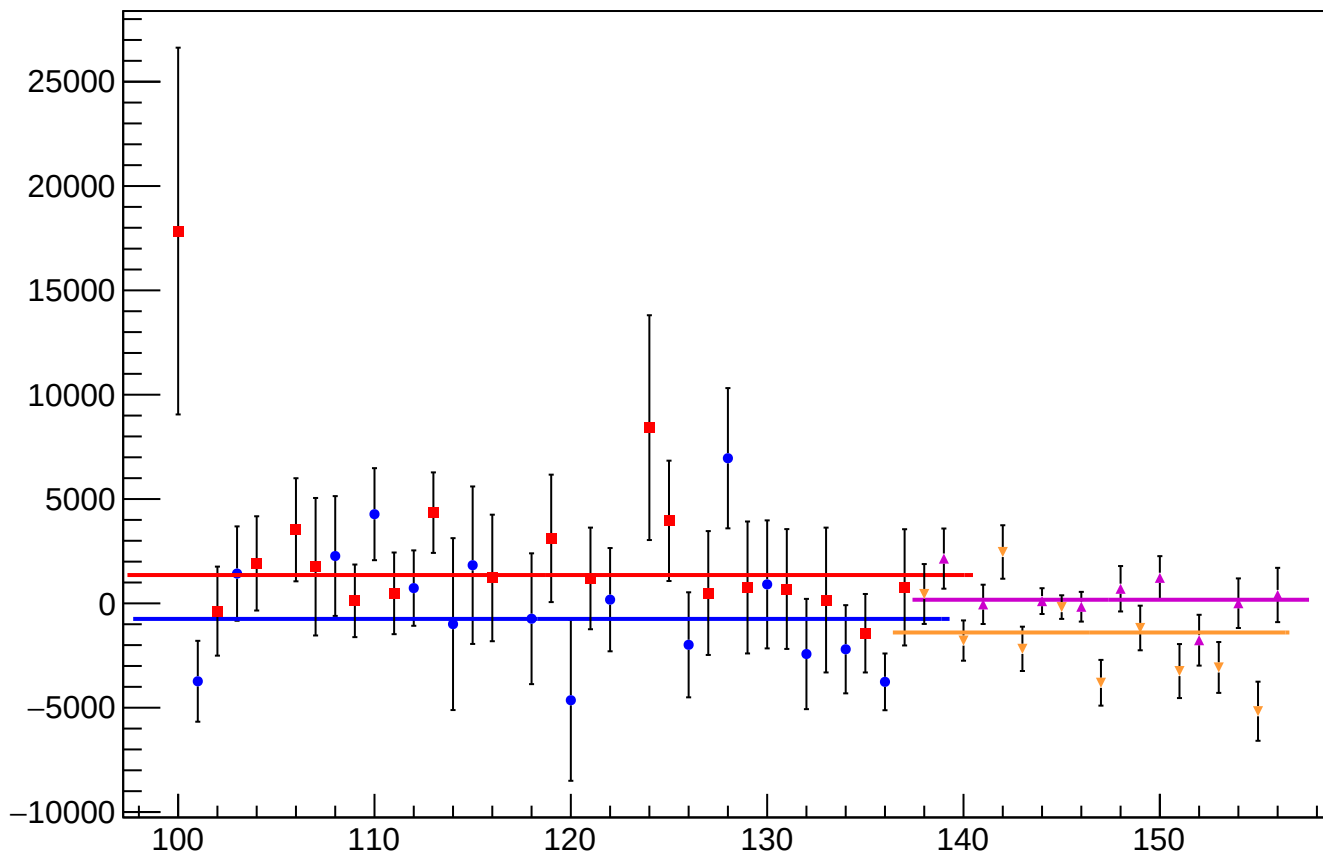
Right: 141.482 $\pm$ 0.028 χ^2 /NDF: 2098386.0/34

In: 128.824 $\pm$ 0.025 χ^2 /NDF: 1364518.5/24

Out: 132.451 $\pm$ 0.025 χ^2 /NDF: 1505613.3/28

All: 130.596 $\pm$ 0.018 χ^2 /NDF: 2880753.2/53

asym_sam3_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.678+/-595.809 χ^2/NDF : 23.5/15

Left Out: -1395.299+/-321.883 χ^2/NDF :31.9/9

Right Out: 1357.874+/-585.807 χ^2/NDF : 13.5/18

Left In: 173.660+/-317.109 χ^2/NDF :6.0/8

Left: -599.098+/-225.899 χ^2/NDF : 50.0/18

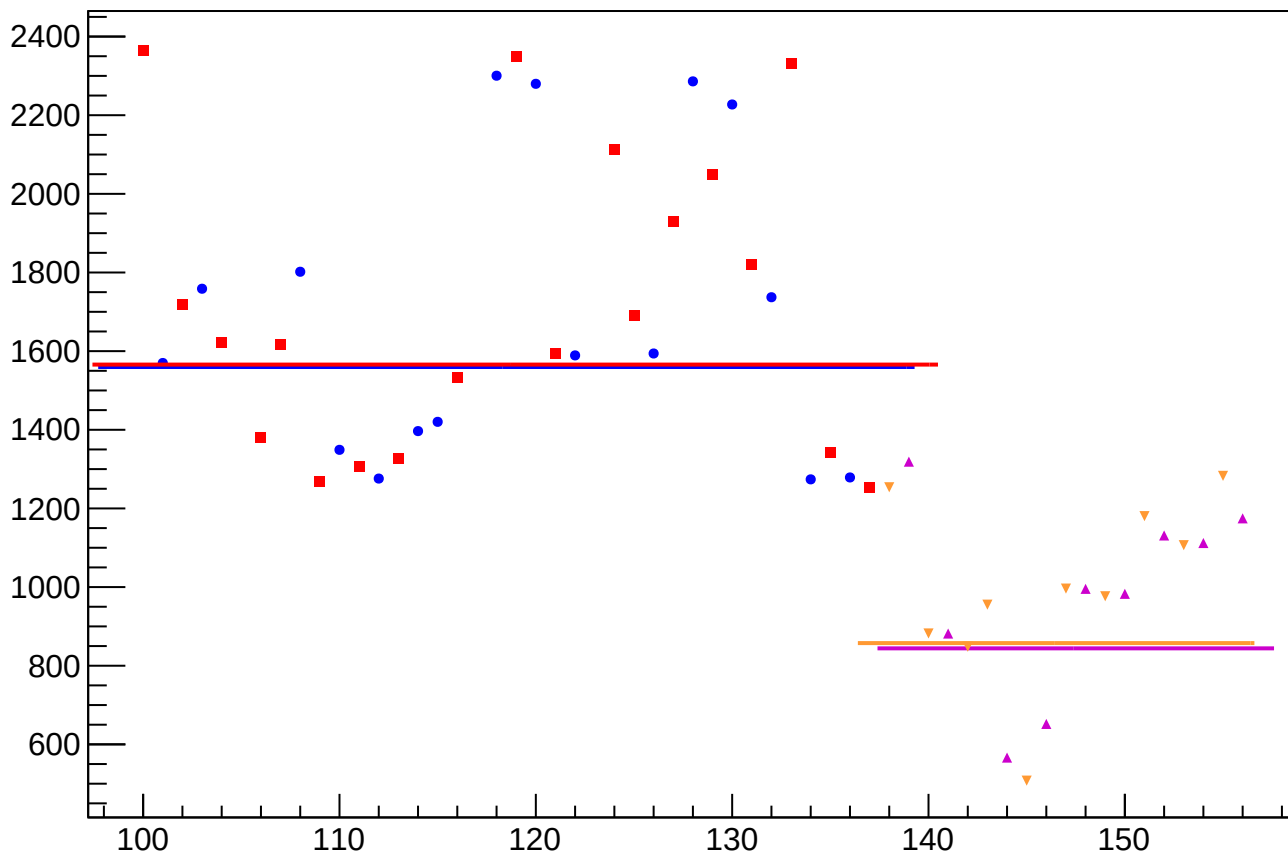
Right: 324.394+/-417.720 χ^2/NDF : 43.3/34

In: -29.056+/-279.930 χ^2/NDF :31.3/24

Out: -756.833+/-282.103 χ^2/NDF :62.4/28

All: -390.131+/-198.704 χ^2/NDF : 97.1/53

asym_sam3_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.734 $\pm$ 0.421 χ^2 /NDF: 604209.8/15

Left Out: 857.547 $\pm$ 0.228 χ^2 /NDF:1379596.5/9

Right Out: 1565.806 $\pm$ 0.414 χ^2 /NDF: 563845.7/18

Left In: 844.163 $\pm$ 0.224 χ^2 /NDF:1186082.4/8

Left: 850.755 $\pm$ 0.160 χ^2 /NDF: 2567433.8/18

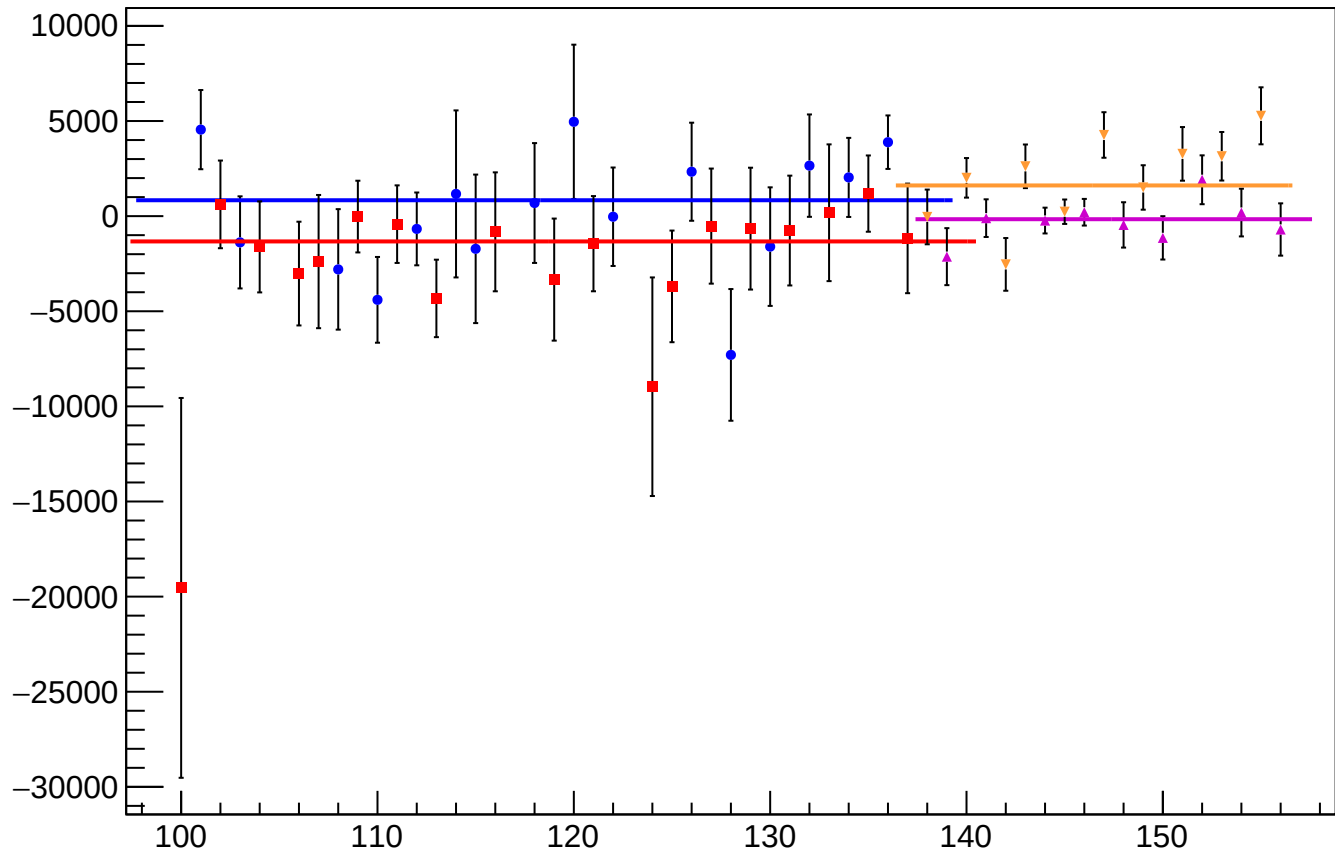
Right: 1562.821 $\pm$ 0.295 χ^2 /NDF: 1168161.1/34

In: 1002.119 $\pm$ 0.198 χ^2 /NDF:4038322.7/24

Out: 1021.794 $\pm$ 0.199 χ^2 /NDF:4188982.4/28

All: 1011.881 $\pm$ 0.141 χ^2 /NDF: 8232206.6/53

asym_sam3_mean vs Slug, Sign Corrected



Right In: 835.496 $\pm$ 618.780 χ^2 /NDF: 24.9/15

Left Out: 1613.741 $\pm$ 351.112 χ^2 /NDF:29.6/9

Right Out: -1329.538 $\pm$ 616.428 χ^2 /NDF: 12.1/18

Left In: -161.391 $\pm$ 334.678 χ^2 /NDF:5.7/8

Left: 683.659 $\pm$ 242.255 χ^2 /NDF: 48.6/18

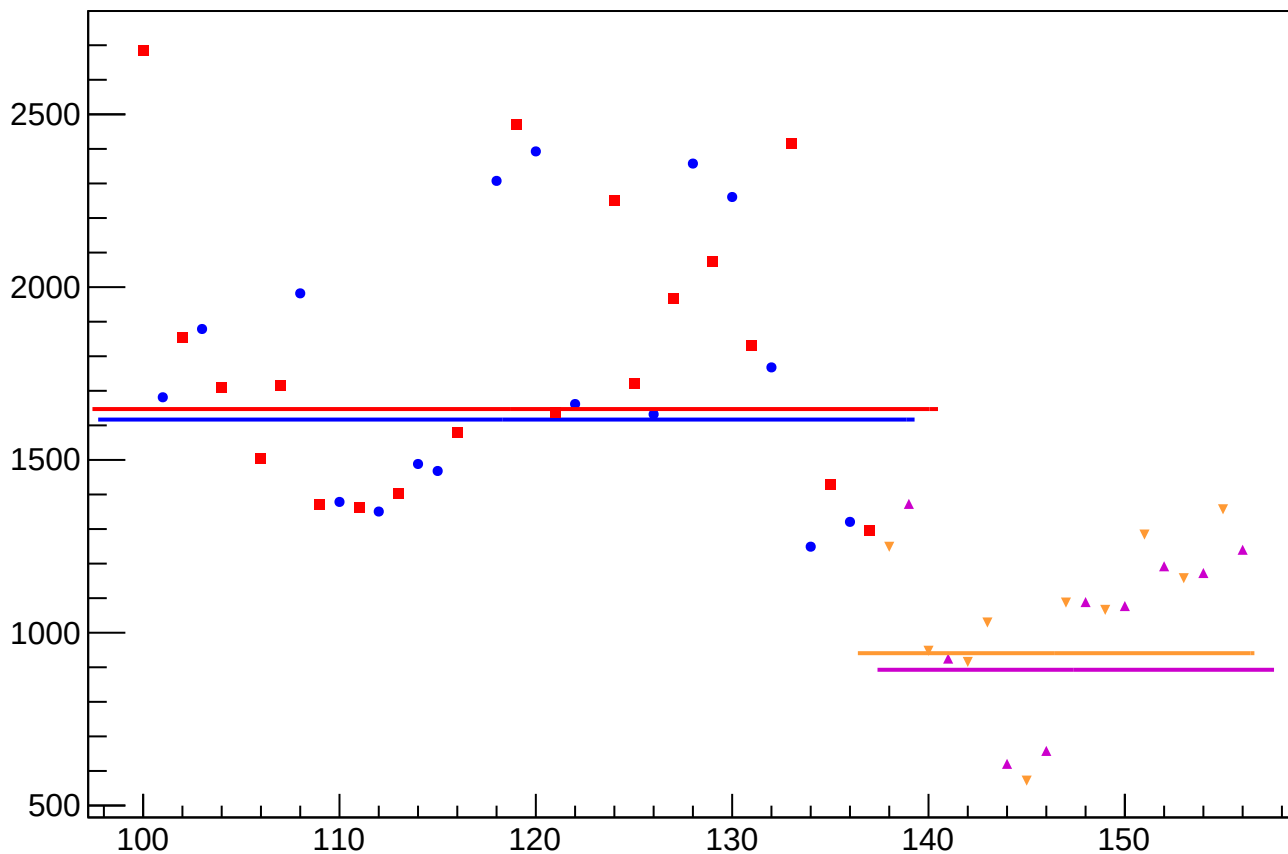
Right: -251.145 $\pm$ 436.710 χ^2 /NDF: 43.2/34

In: 64.232 $\pm$ 294.378 χ^2 /NDF:32.6/24

Out: 892.752 $\pm$ 305.092 χ^2 /NDF:58.9/28

All: 463.689 $\pm$ 211.843 χ^2 /NDF: 95.3/53

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1616.804 ± 0.438 $\chi^2/\text{NDF}: 622271.0/15$

Left Out: 940.783 ± 0.248 $\chi^2/\text{NDF}: 1148535.7/9$

Right Out: 1647.227 ± 0.436 $\chi^2/\text{NDF}: 523860.9/18$

Left In: 892.773 ± 0.237 $\chi^2/\text{NDF}: 1197339.1/8$

Left: 915.628 ± 0.171 $\chi^2/\text{NDF}: 2365467.0/18$

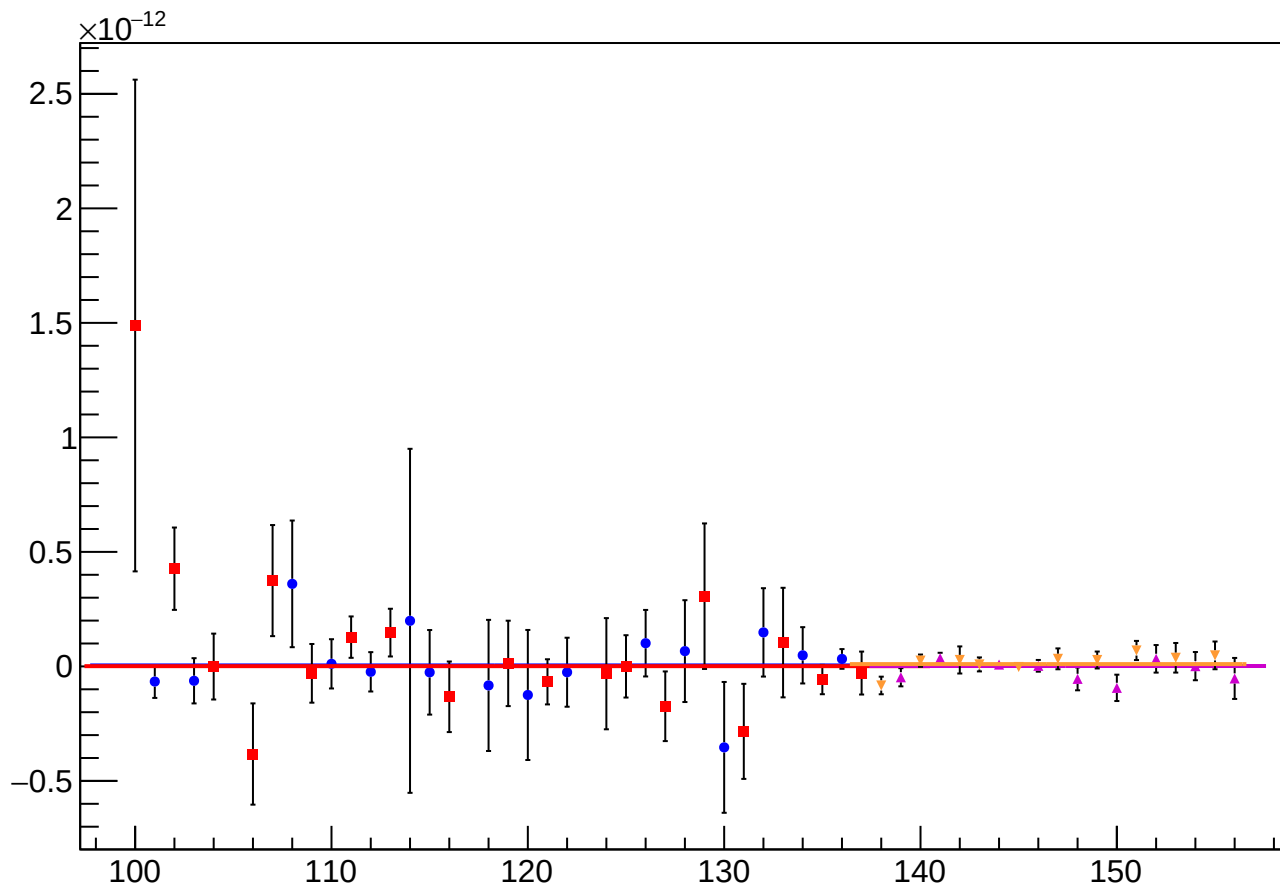
Right: 1632.074 ± 0.309 $\chi^2/\text{NDF}: 1148558.3/34$

In: 1056.641 ± 0.208 $\chi^2/\text{NDF}: 3938108.2/24$

Out: 1113.834 ± 0.216 $\chi^2/\text{NDF}: 3655706.9/28$

All: 1084.216 ± 0.150 $\chi^2/\text{NDF}: 7630212.4/53$

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 : 9.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.3/8

Left: 0.000+/-0.000 χ^2/NDF : 18.5/18

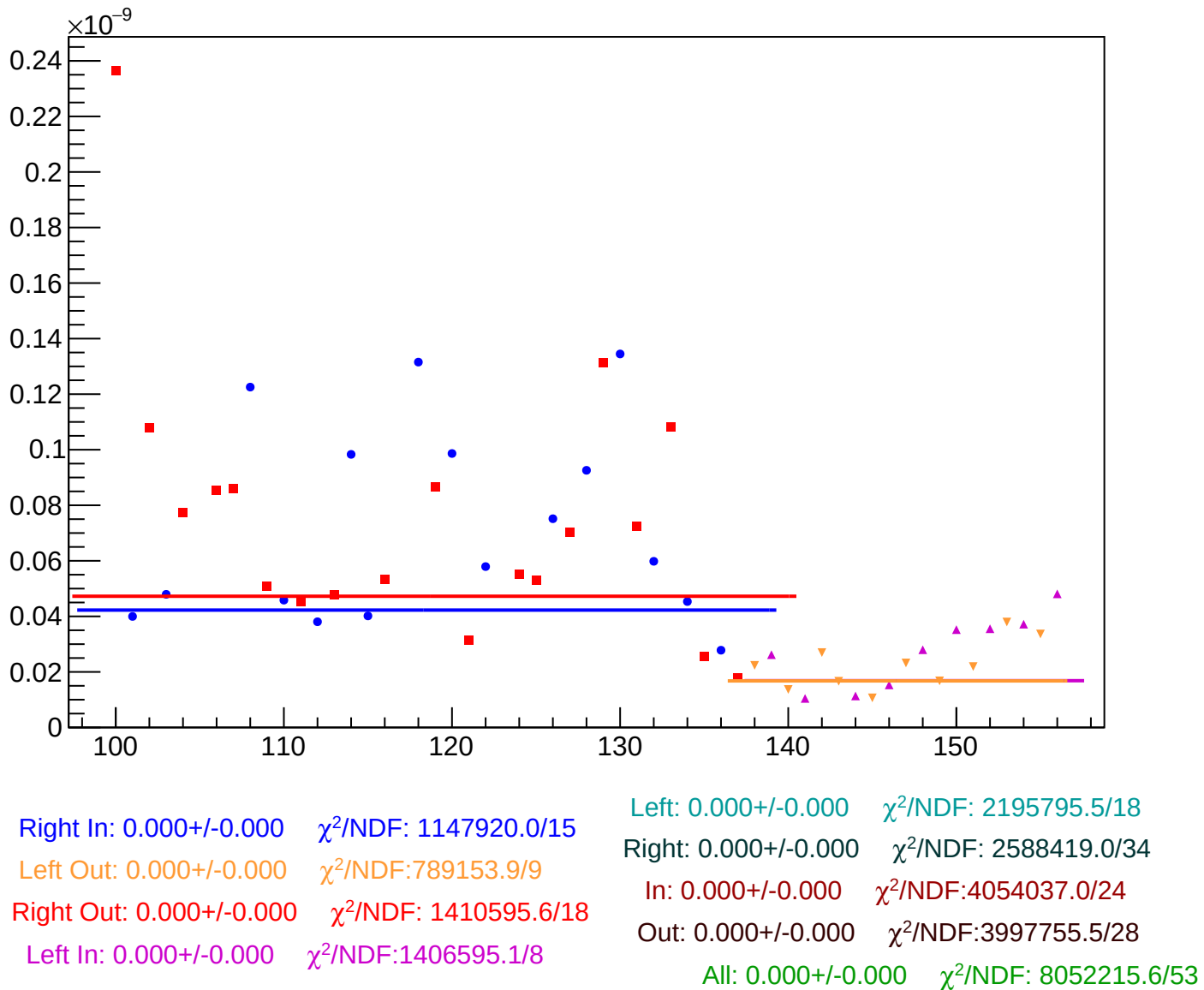
Right: 0.000+/-0.000 χ^2/NDF : 30.3/34

In: 0.000+/-0.000 χ^2/NDF : 15.2/24

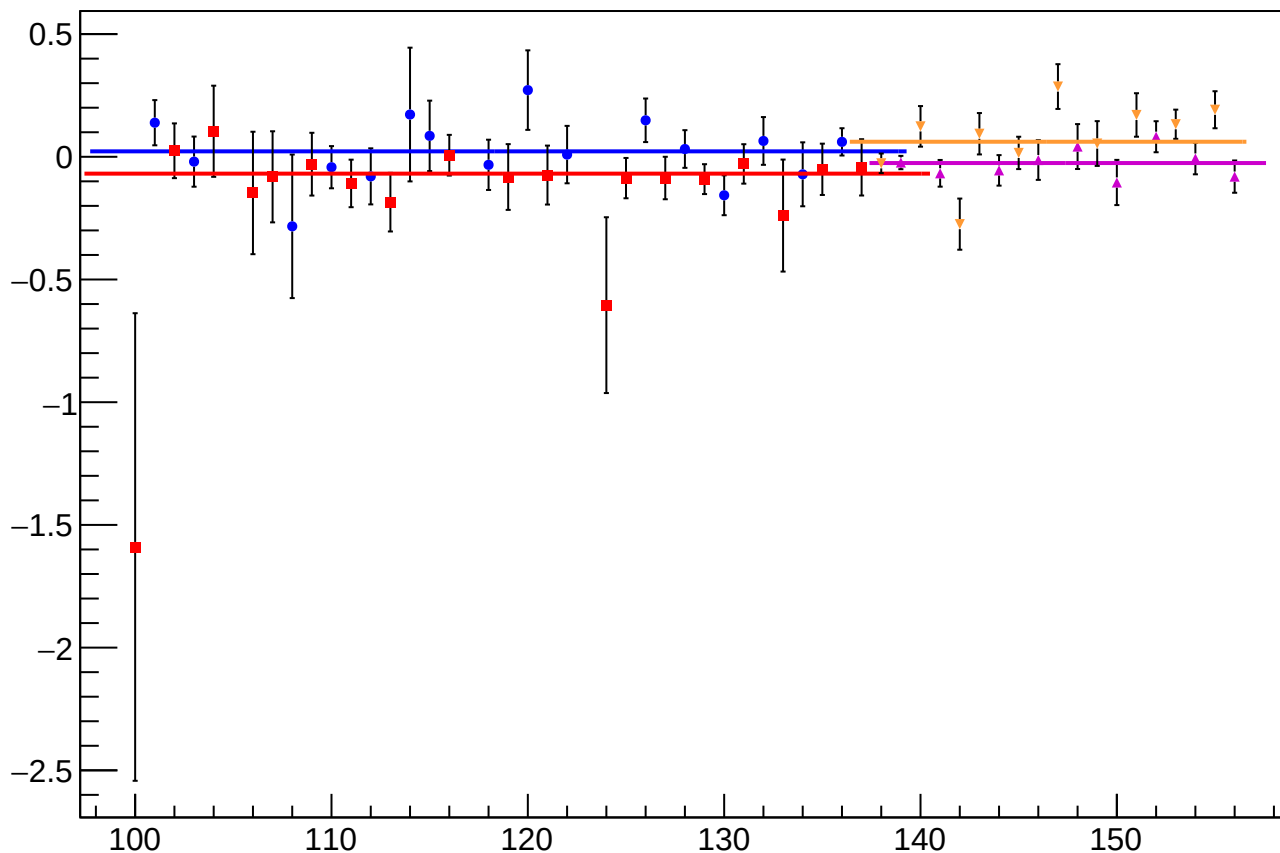
Out: 0.000+/-0.000 χ^2/NDF : 33.4/28

All: 0.000+/-0.000 χ^2/NDF : 48.8/53

asym_sam3_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.061 ± 0.022 $\chi^2/\text{NDF}: 28.5/9$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.025 ± 0.018 $\chi^2/\text{NDF}: 5.8/8$

Left: 0.009 ± 0.014 $\chi^2/\text{NDF}: 43.6/18$

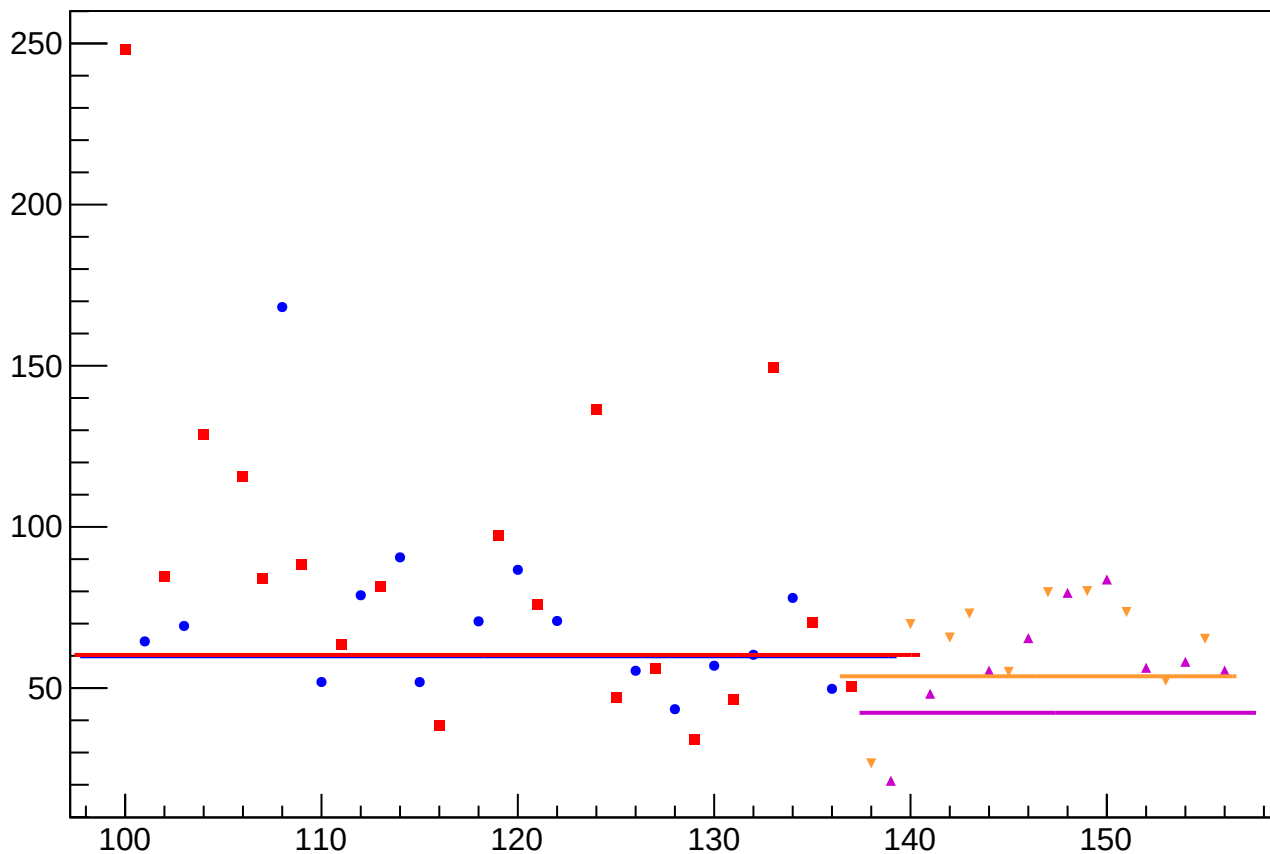
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.009 ± 0.015 $\chi^2/\text{NDF}: 23.7/24$

Out: 0.005 ± 0.017 $\chi^2/\text{NDF}: 53.1/28$

All: -0.003 ± 0.011 $\chi^2/\text{NDF}: 77.2/53$

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: 53.655 $\pm$ 0.016 χ^2 /NDF: 1612200.7/9

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977220.6/18

Left In: 42.327 $\pm$ 0.013 χ^2 /NDF: 2514624.3/8

Left: 46.886 $\pm$ 0.010 χ^2 /NDF: 4443544.1/18

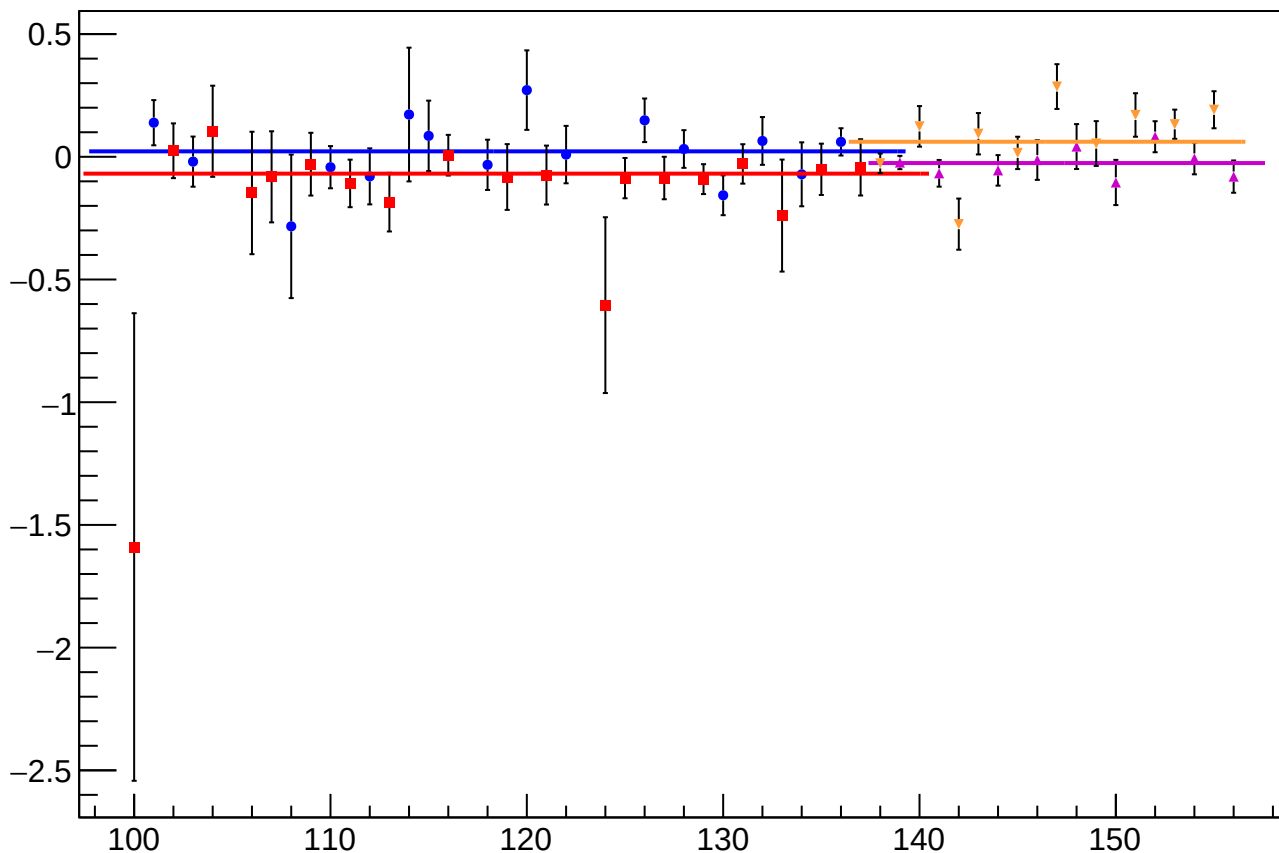
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676445.3/34

In: 48.446 $\pm$ 0.010 χ^2 /NDF: 3871710.6/24

Out: 56.510 $\pm$ 0.012 χ^2 /NDF: 3667528.9/28

All: 51.957 $\pm$ 0.008 χ^2 /NDF: 7805858.7/53

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: 0.061 ± 0.022 $\chi^2/\text{NDF}: 28.5/9$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.025 ± 0.018 $\chi^2/\text{NDF}: 5.8/8$

Left: 0.009 ± 0.014 $\chi^2/\text{NDF}: 43.6/18$

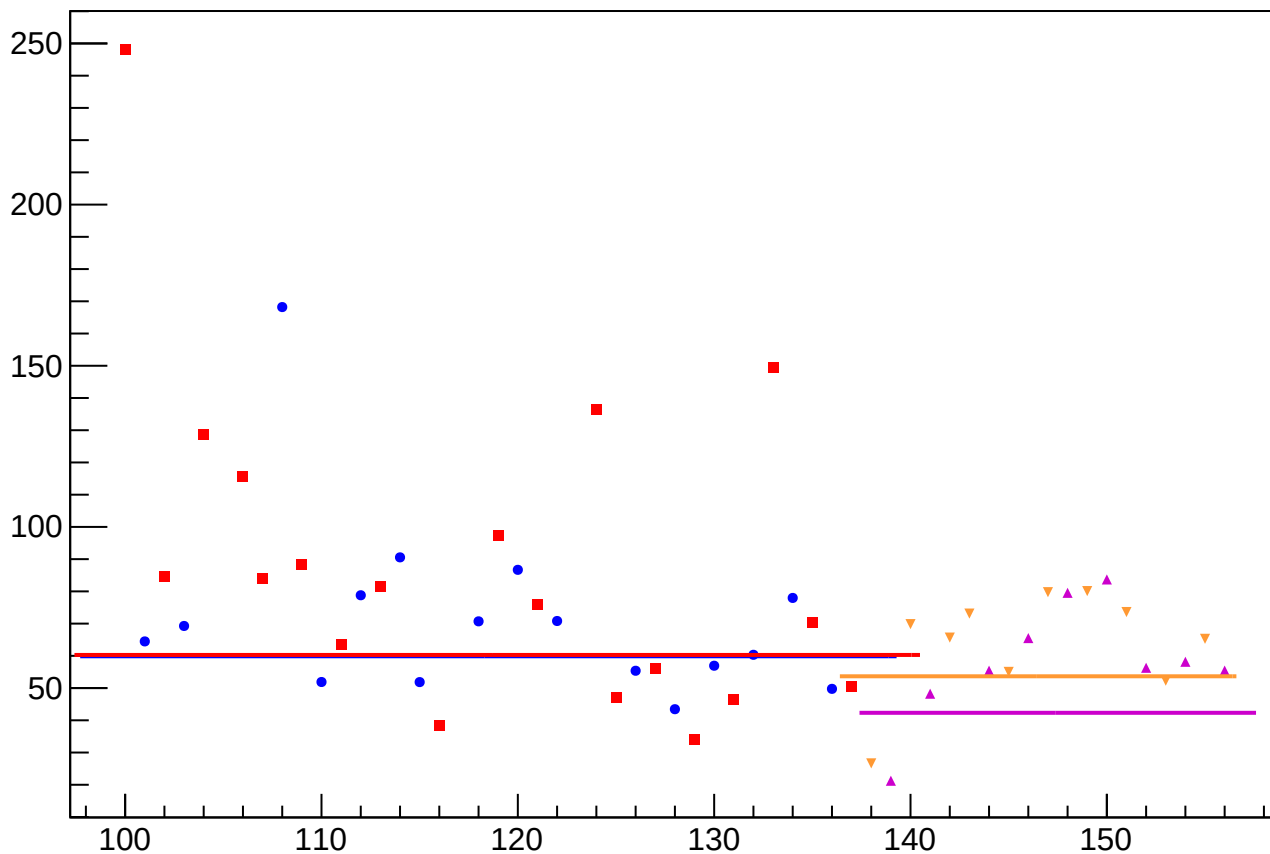
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.009 ± 0.015 $\chi^2/\text{NDF}: 23.7/24$

Out: 0.005 ± 0.017 $\chi^2/\text{NDF}: 53.1/28$

All: -0.003 ± 0.011 $\chi^2/\text{NDF}: 77.2/53$

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: 53.655 $\pm$ 0.016 χ^2 /NDF: 1612200.7/9

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977220.6/18

Left In: 42.327 $\pm$ 0.013 χ^2 /NDF: 2514624.3/8

Left: 46.886 $\pm$ 0.010 χ^2 /NDF: 4443544.1/18

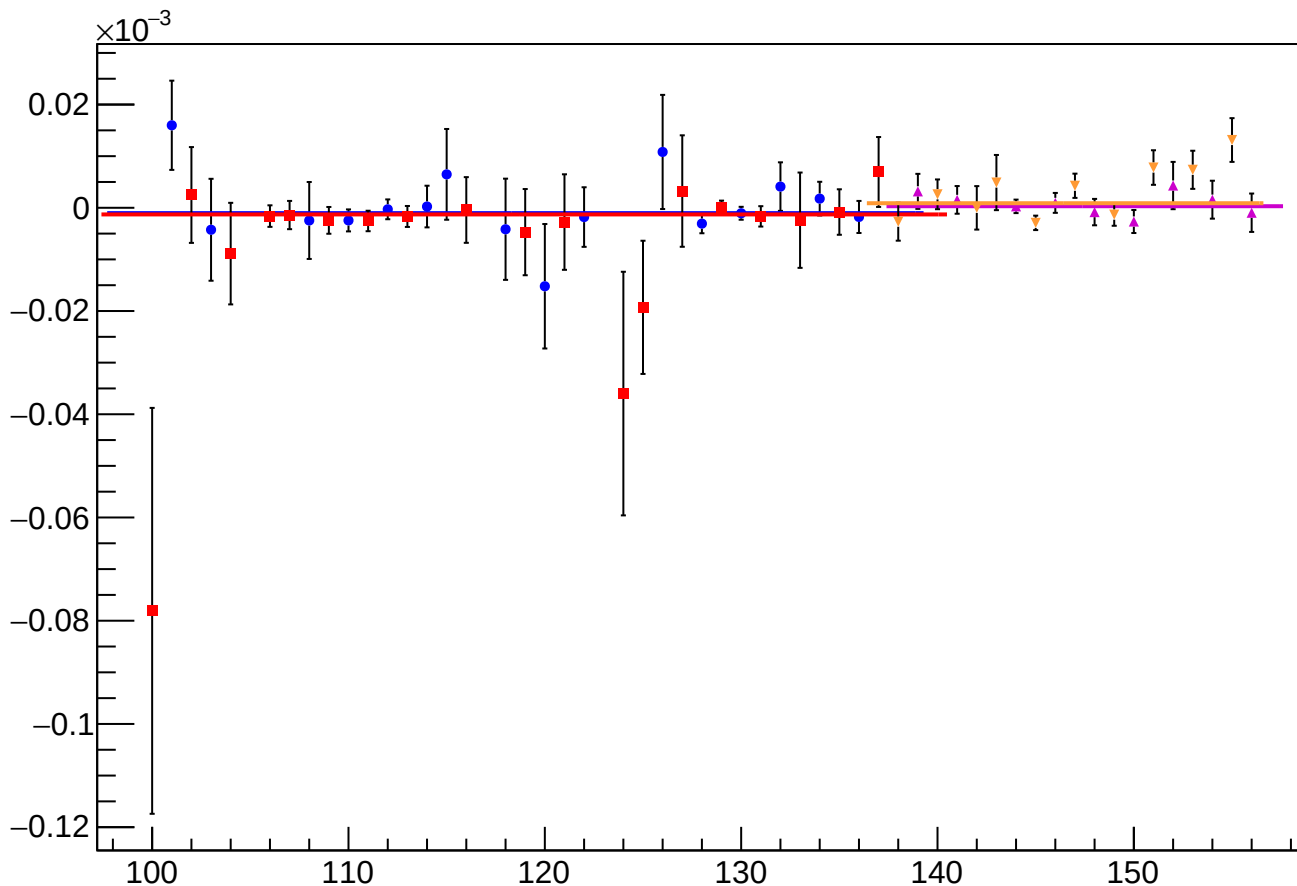
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676445.3/34

In: 48.446 $\pm$ 0.010 χ^2 /NDF: 3871710.6/24

Out: 56.510 $\pm$ 0.012 χ^2 /NDF: 3667528.9/28

All: 51.957 $\pm$ 0.008 χ^2 /NDF: 7805858.7/53

asym_sam3_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 : 28.1/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.5/18

Left In: 0.000 ± 0.000 χ^2/NDF : 4.0/8

Left: 0.000 ± 0.000 χ^2/NDF : 32.4/18

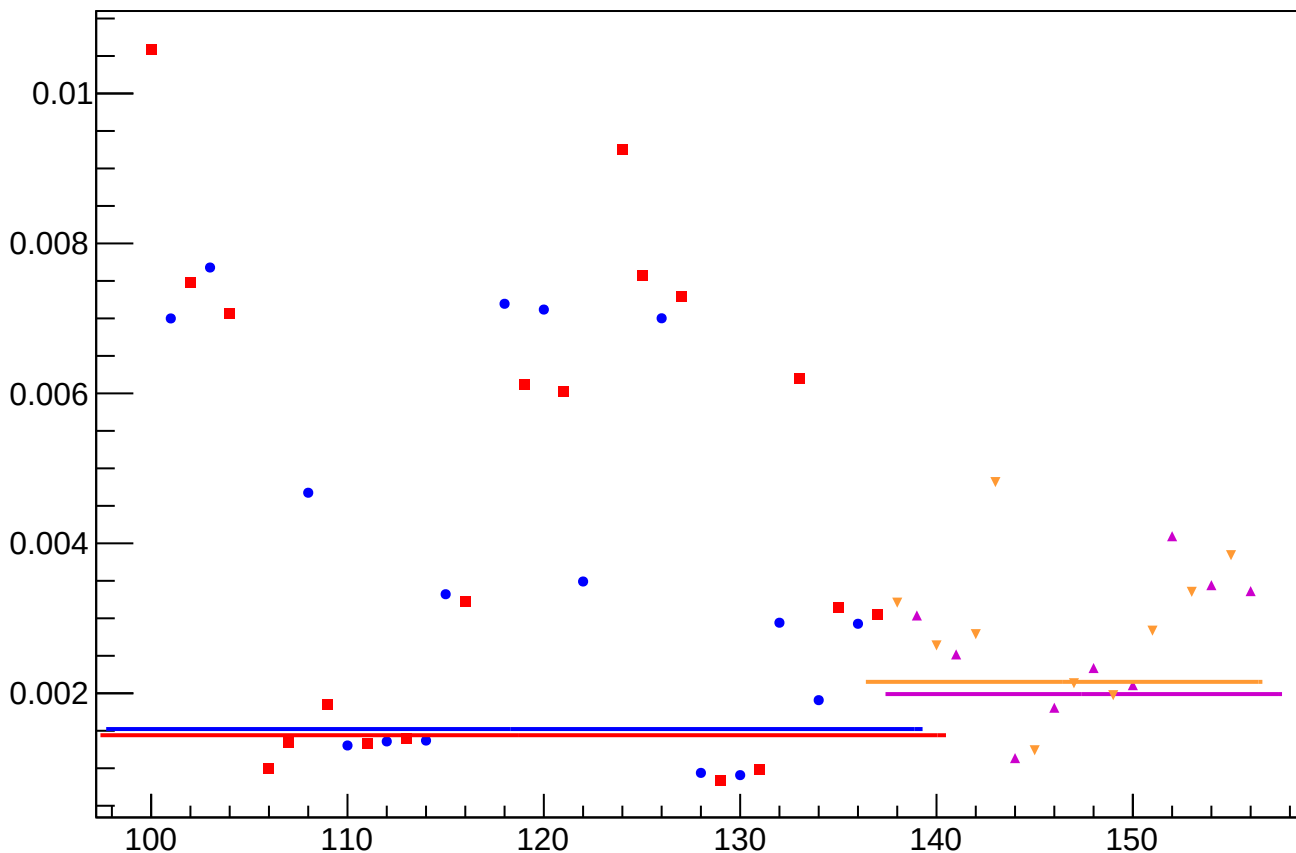
Right: -0.000 ± 0.000 χ^2/NDF : 23.8/34

In: -0.000 ± 0.000 χ^2/NDF : 16.8/24

Out: -0.000 ± 0.000 χ^2/NDF : 44.5/28

All: -0.000 ± 0.000 χ^2/NDF : 61.4/53

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: 0.002+/-0.000 χ^2/NDF : 2242829.9/9

Right Out: 0.001+/-0.000 χ^2/NDF : 5789411.1/18

Left In: 0.002+/-0.000 χ^2/NDF : 2191994.2/8

Left: 0.002+/-0.000 χ^2/NDF : 4475090.0/18

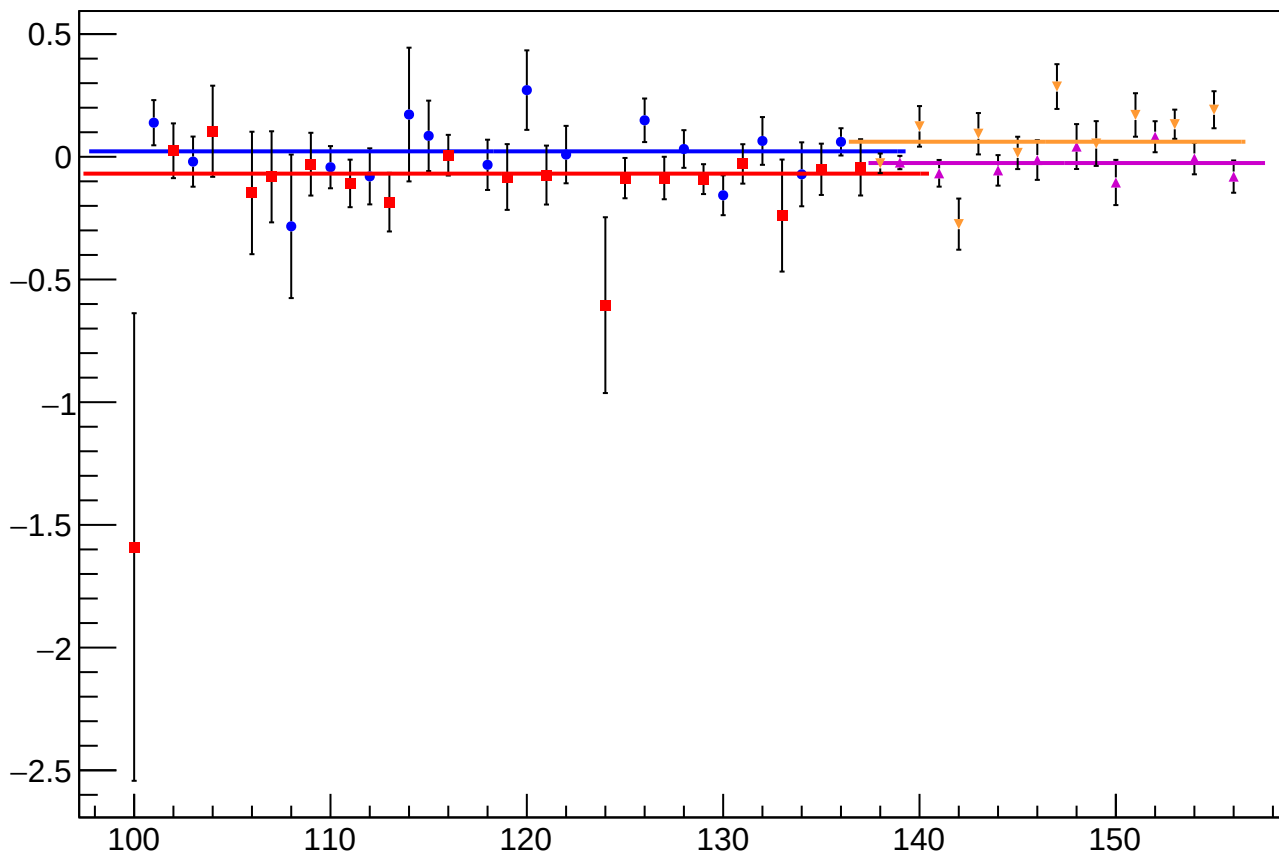
Right: 0.001+/-0.000 χ^2/NDF : 10985380.1/34

In: 0.002+/-0.000 χ^2/NDF : 7750128.3/24

Out: 0.002+/-0.000 χ^2/NDF : 8878844.5/28

All: 0.002+/-0.000 χ^2/NDF : 16629409.2/53

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: 0.061 ± 0.022 $\chi^2/\text{NDF}: 28.5/9$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.025 ± 0.018 $\chi^2/\text{NDF}: 5.8/8$

Left: 0.009 ± 0.014 $\chi^2/\text{NDF}: 43.6/18$

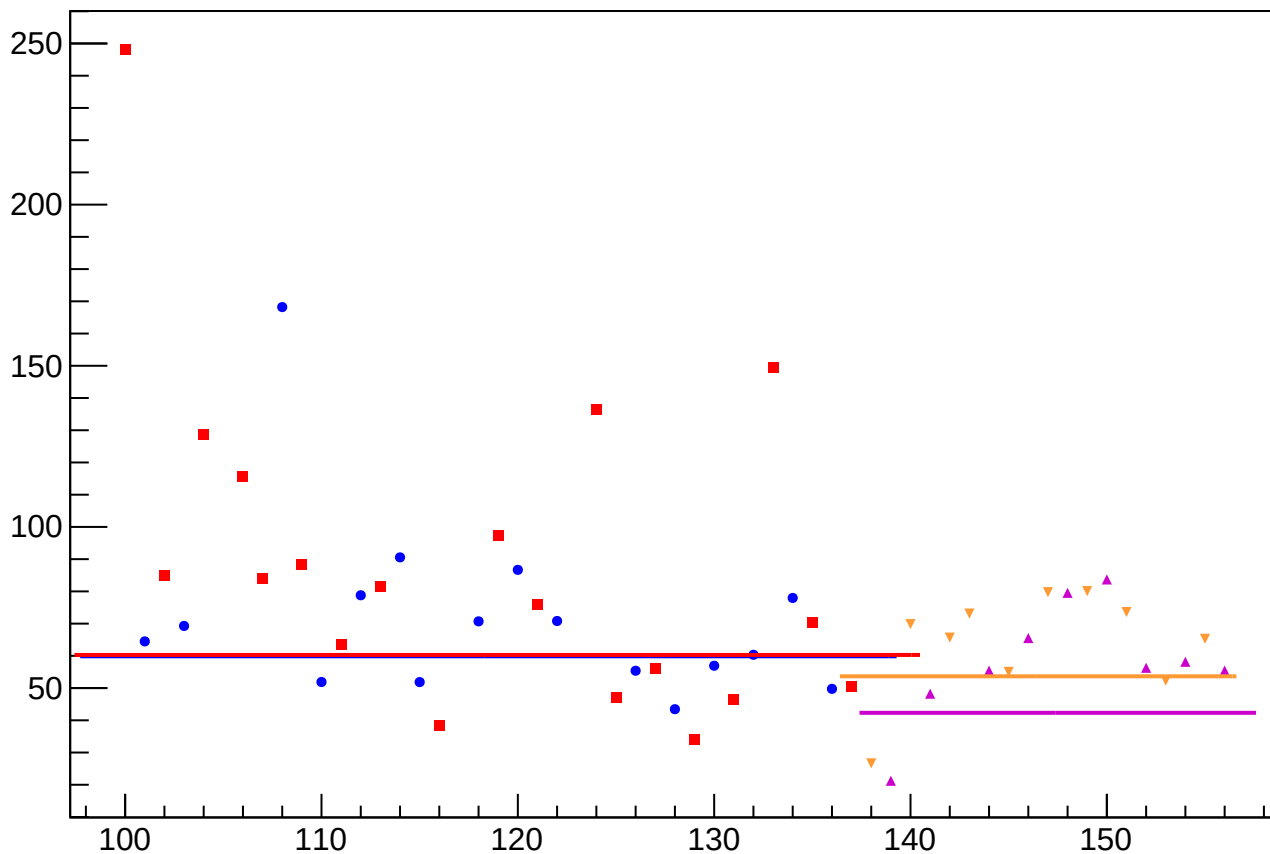
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.009 ± 0.015 $\chi^2/\text{NDF}: 23.7/24$

Out: 0.005 ± 0.017 $\chi^2/\text{NDF}: 53.1/28$

All: -0.003 ± 0.011 $\chi^2/\text{NDF}: 77.2/53$

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: 53.654 $\pm$ 0.016 χ^2 /NDF: 1612557.3/9

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977294.2/18

Left In: 42.326 $\pm$ 0.013 χ^2 /NDF: 2515018.6/8

Left: 46.886 $\pm$ 0.010 χ^2 /NDF: 4444315.3/18

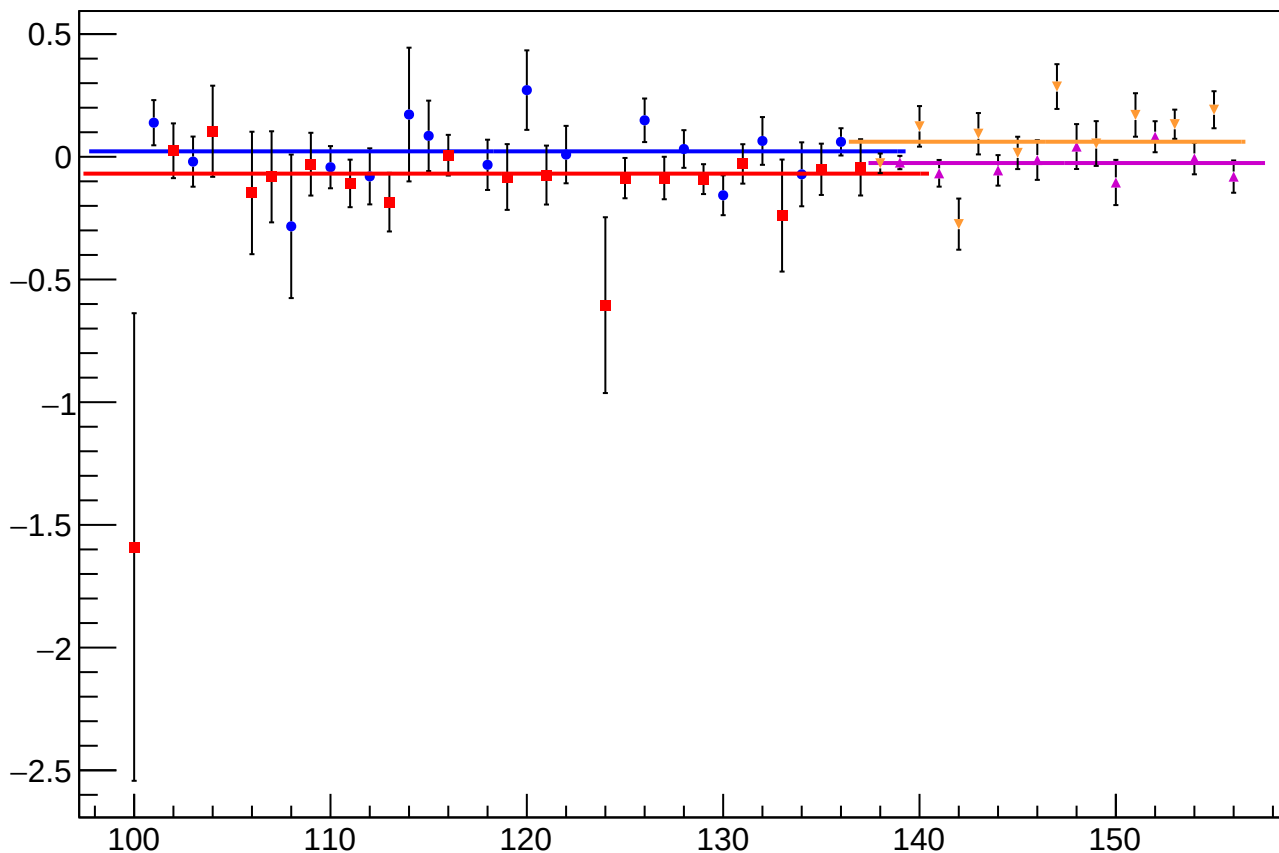
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676572.8/34

In: 48.445 $\pm$ 0.010 χ^2 /NDF: 3872272.7/24

Out: 56.510 $\pm$ 0.012 χ^2 /NDF: 3667982.1/28

All: 51.956 $\pm$ 0.008 χ^2 /NDF: 7806895.7/53

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: 0.061 ± 0.022 $\chi^2/\text{NDF}: 28.5/9$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.025 ± 0.018 $\chi^2/\text{NDF}: 5.8/8$

Left: 0.009 ± 0.014 $\chi^2/\text{NDF}: 43.6/18$

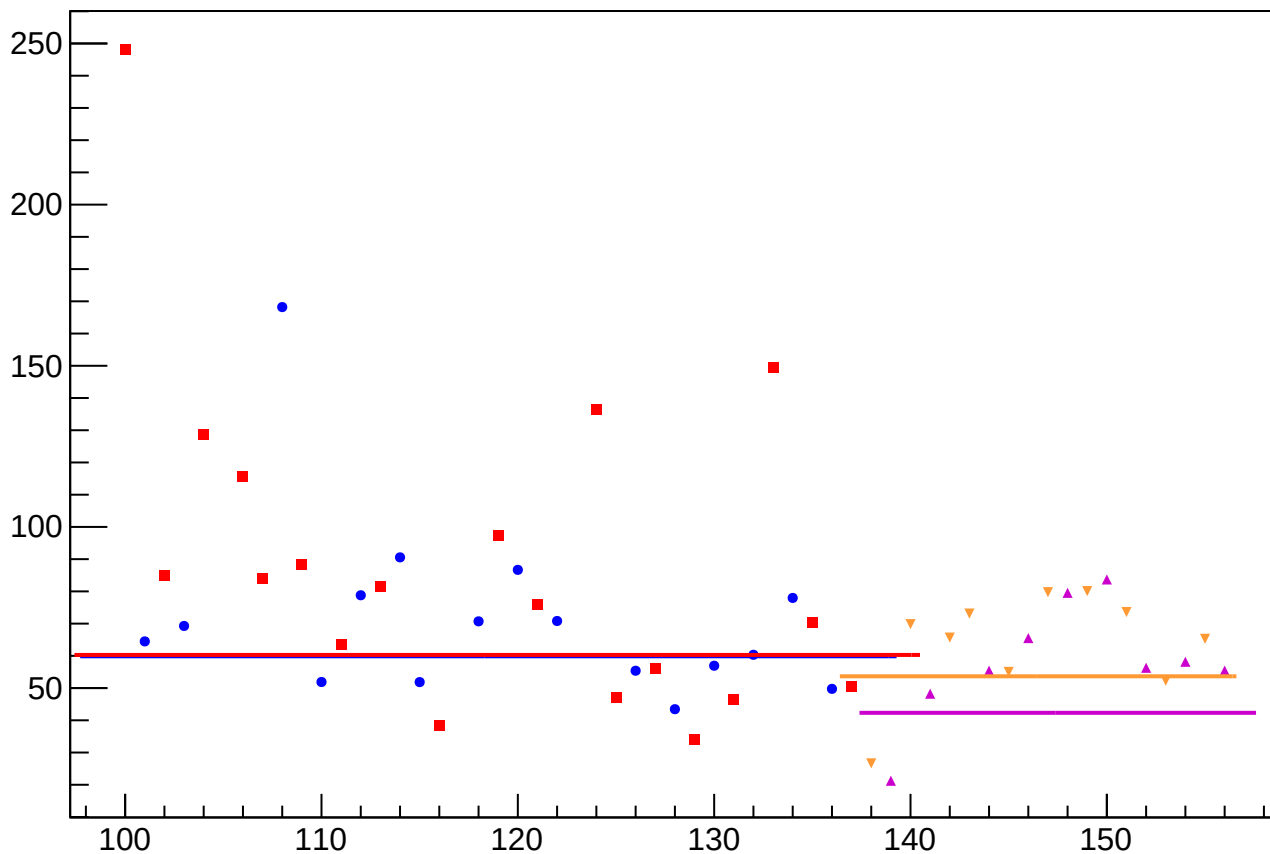
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.009 ± 0.015 $\chi^2/\text{NDF}: 23.7/24$

Out: 0.005 ± 0.017 $\chi^2/\text{NDF}: 53.1/28$

All: -0.003 ± 0.011 $\chi^2/\text{NDF}: 77.2/53$

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: 53.654 $\pm$ 0.016 χ^2 /NDF: 1612557.3/9

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977294.2/18

Left In: 42.326 $\pm$ 0.013 χ^2 /NDF: 2515018.6/8

Left: 46.886 $\pm$ 0.010 χ^2 /NDF: 4444315.3/18

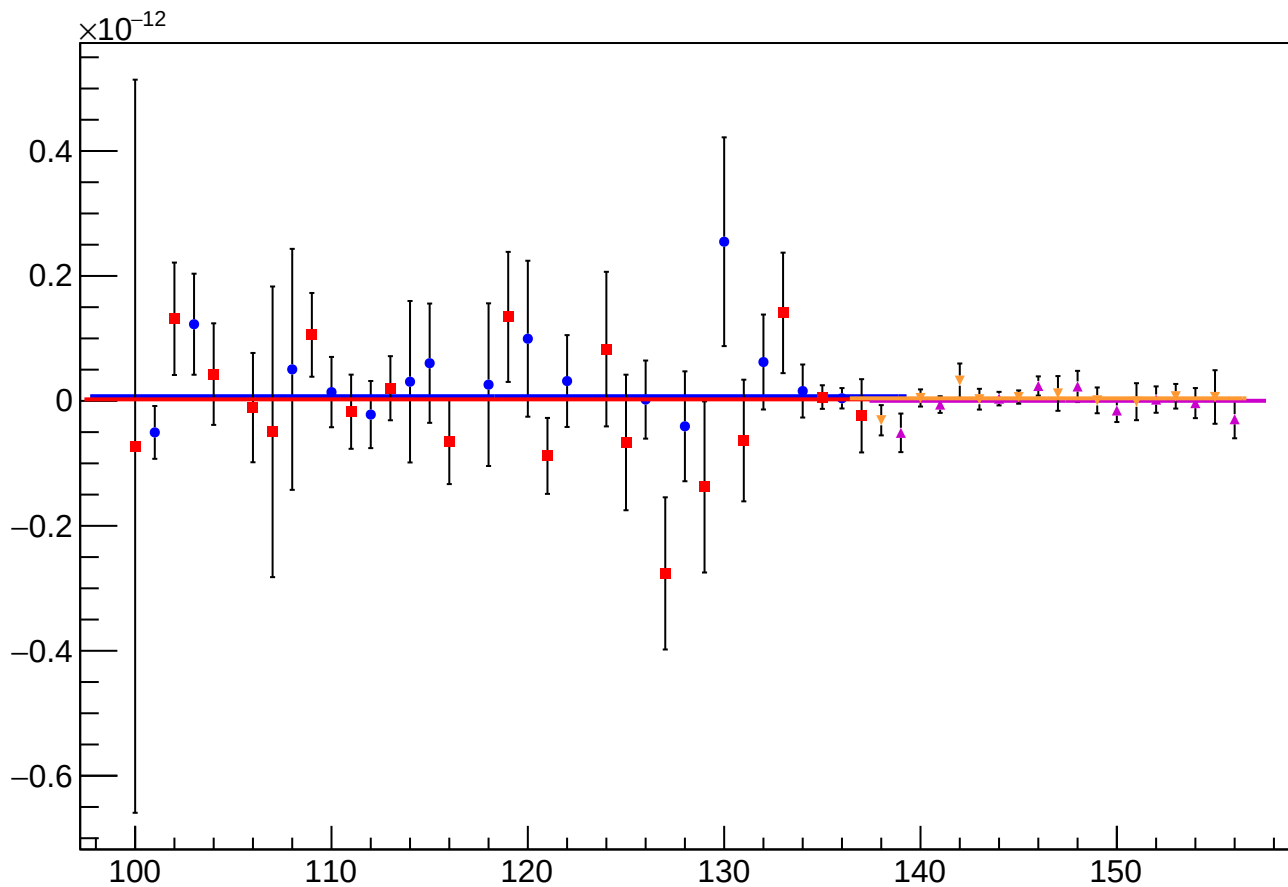
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676572.8/34

In: 48.445 $\pm$ 0.010 χ^2 /NDF: 3872272.7/24

Out: 56.510 $\pm$ 0.012 χ^2 /NDF: 3667982.1/28

All: 51.956 $\pm$ 0.008 χ^2 /NDF: 7806895.7/53

asym_sam3_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.0/8

Left: 0.000+/-0.000 χ^2/NDF : 11.6/18

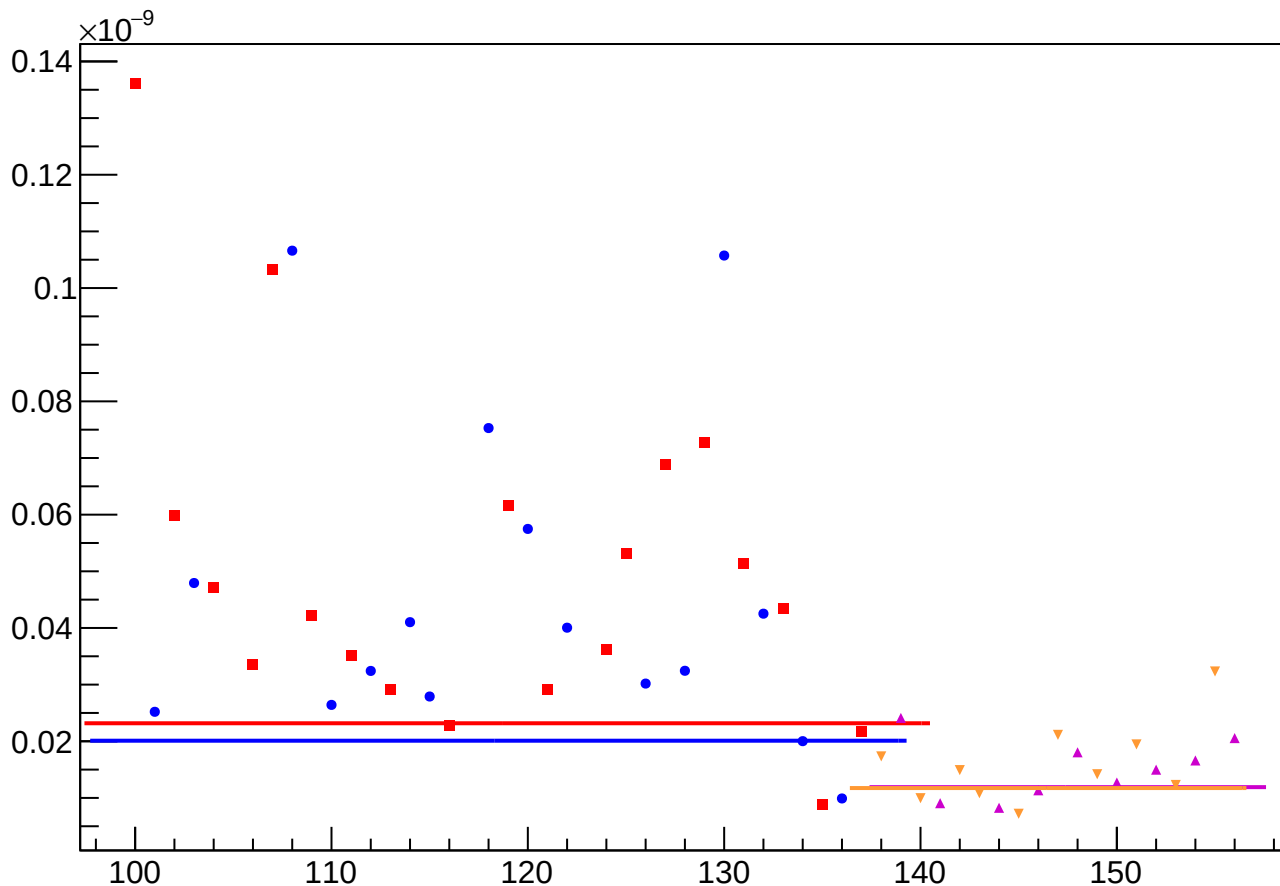
Right: 0.000+/-0.000 χ^2/NDF : 28.1/34

In: 0.000+/-0.000 χ^2/NDF : 16.6/24

Out: 0.000+/-0.000 χ^2/NDF : 23.1/28

All: 0.000+/-0.000 χ^2/NDF : 39.8/53

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 :1392498.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3530677.1/18

Left In: 0.000+/-0.000 χ^2/NDF :1037764.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2431025.6/18

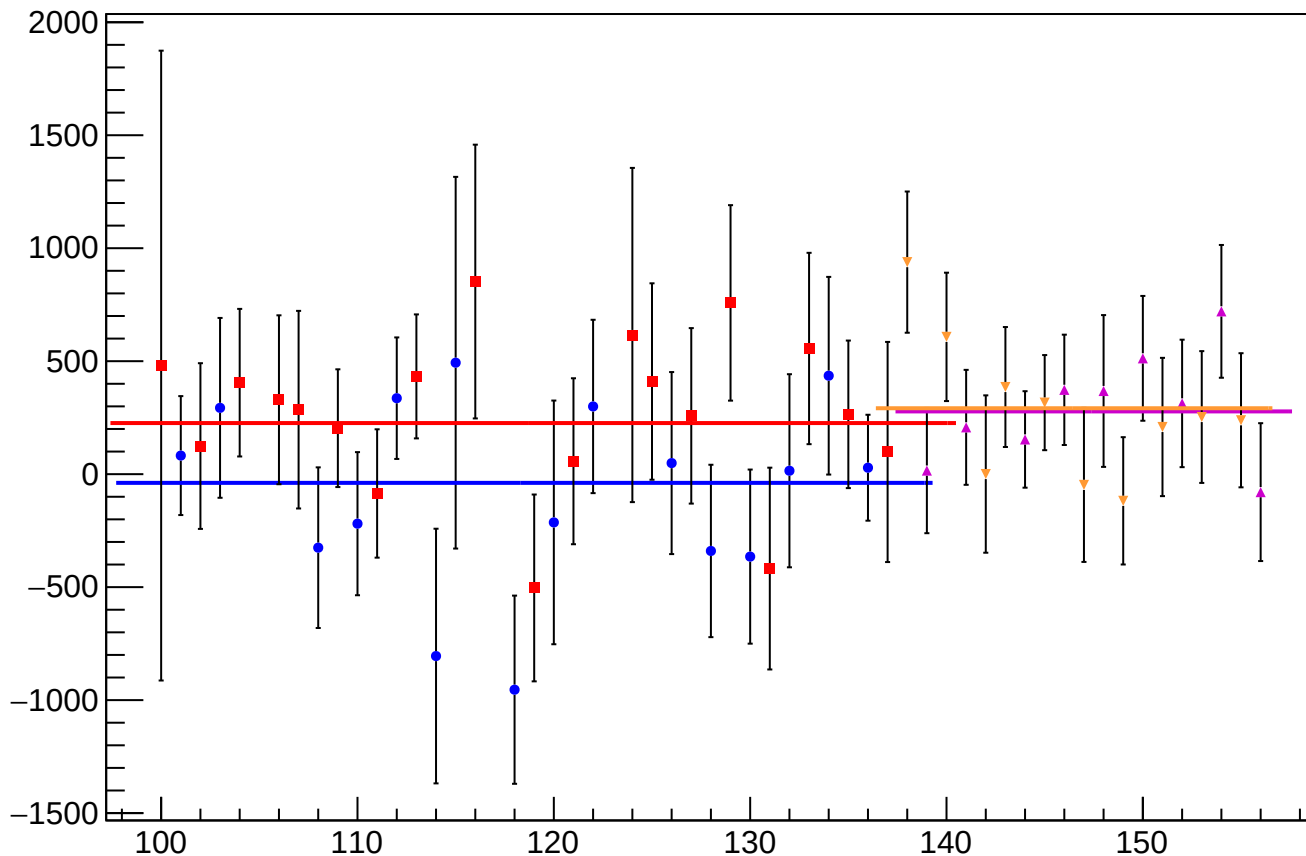
Right: 0.000+/-0.000 χ^2/NDF : 6709527.6/34

In: 0.000+/-0.000 χ^2/NDF :4897386.3/24

Out: 0.000+/-0.000 χ^2/NDF :6125004.0/28

All: 0.000+/-0.000 χ^2/NDF : 11022845.9/53

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.498 ± 90.619 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 291.719 ± 90.301 $\chi^2/\text{NDF}: 9.6/9$

Right Out: 226.168 ± 87.908 $\chi^2/\text{NDF}: 11.4/18$

Left In: 277.699 ± 89.781 $\chi^2/\text{NDF}: 5.9/8$

Left: 284.669 ± 63.668 $\chi^2/\text{NDF}: 15.5/18$

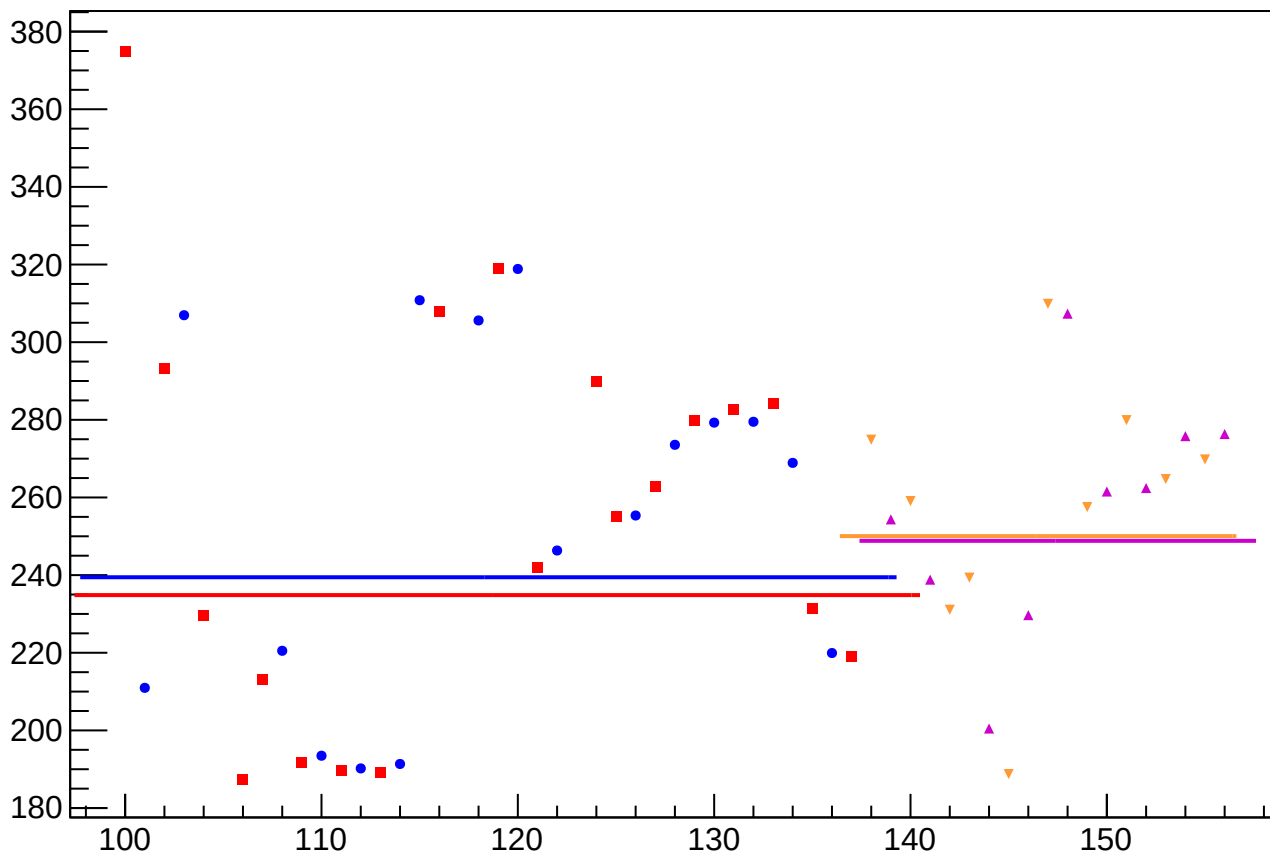
Right: 97.852 ± 63.097 $\chi^2/\text{NDF}: 30.3/34$

In: 121.069 ± 63.779 $\chi^2/\text{NDF}: 26.5/24$

Out: 258.063 ± 62.989 $\chi^2/\text{NDF}: 21.3/28$

All: 190.419 ± 44.817 $\chi^2/\text{NDF}: 50.1/53$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400955.7/15

Left Out: 250.044 $\pm$ 0.064 χ^2 /NDF:289500.6/9

Right Out: 234.855 $\pm$ 0.062 χ^2 /NDF: 481715.3/18

Left In: 248.832 $\pm$ 0.063 χ^2 /NDF:221419.1/8

Left: 249.435 $\pm$ 0.045 χ^2 /NDF: 511100.8/18

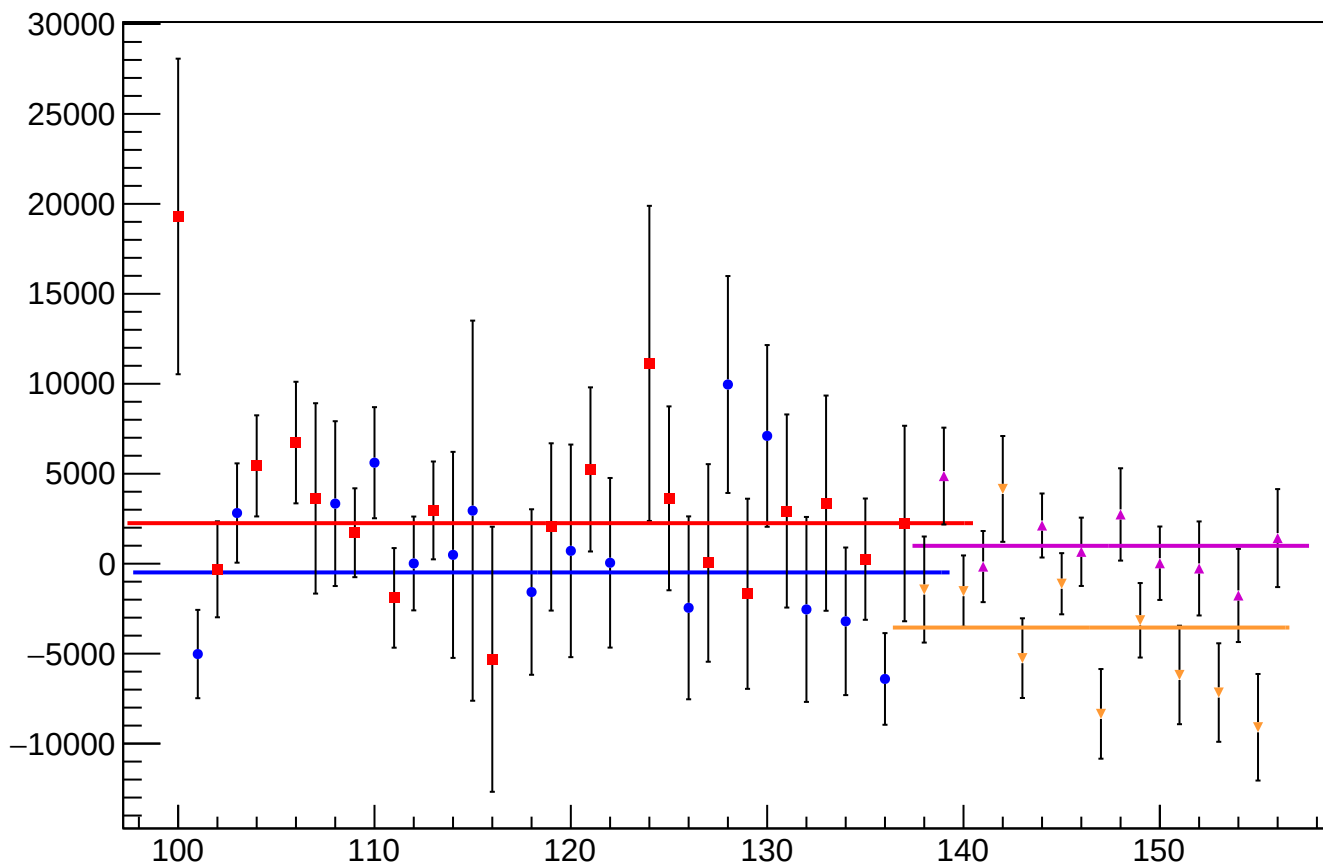
Right: 237.082 $\pm$ 0.045 χ^2 /NDF: 885319.7/34

In: 244.184 $\pm$ 0.045 χ^2 /NDF:633196.4/24

Out: 242.245 $\pm$ 0.045 χ^2 /NDF:800270.5/28

All: 243.203 $\pm$ 0.032 χ^2 /NDF: 1434402.6/53

asym_sam4_reg_correction_mean vs Slug, Sign Corrected



Right In: -485.932+/-947.459 χ^2/NDF : 21.1/15

Left Out: -3550.226+/-743.412 χ^2/NDF :21.0/9

Right Out: 2251.898+/-894.171 χ^2/NDF : 13.9/18

Left In: 992.353+/-743.426 χ^2/NDF :4.9/8

Left: -1278.980+/-525.677 χ^2/NDF : 44.6/18

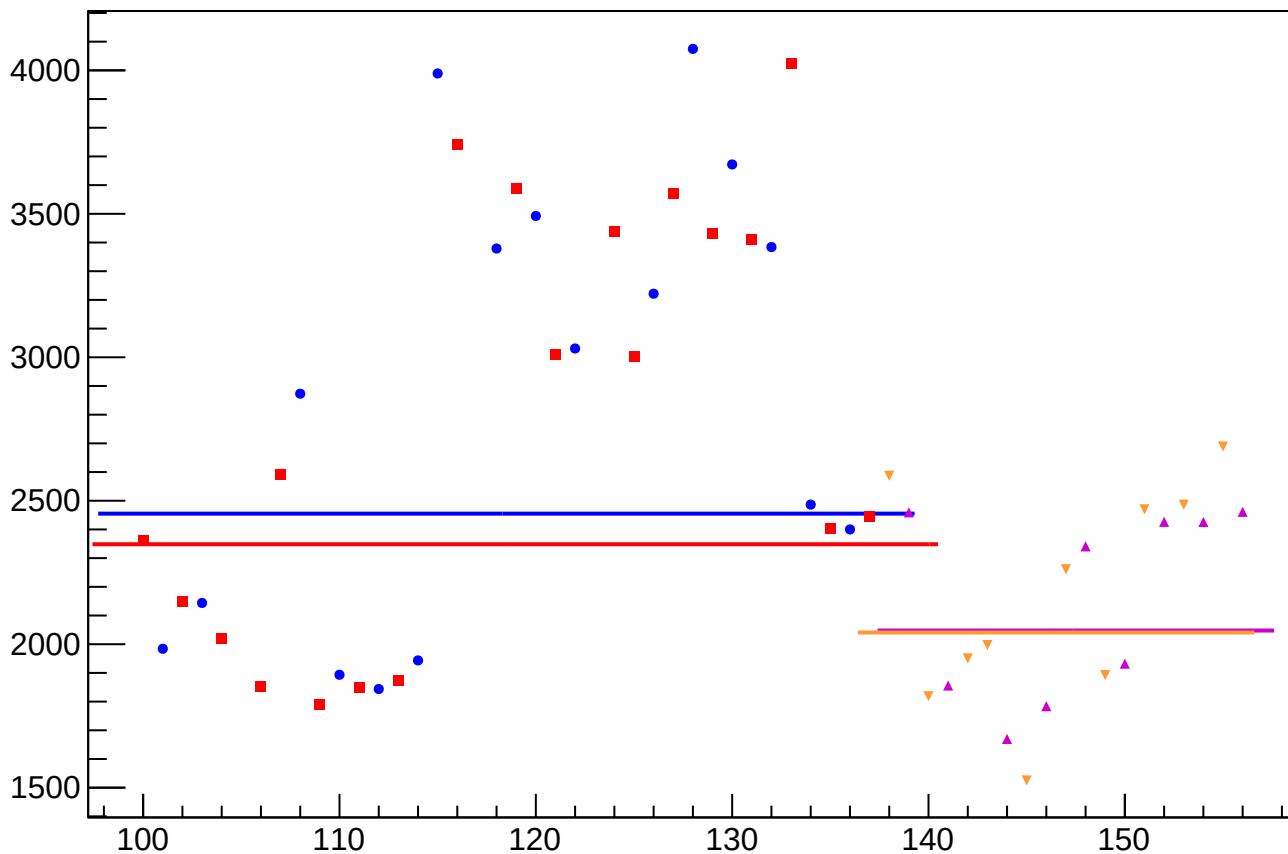
Right: 962.136+/-650.297 χ^2/NDF : 39.4/34

In: 429.030+/-584.871 χ^2/NDF :27.6/24

Out: -1178.831+/-571.649 χ^2/NDF :59.7/28

All: -393.281+/-408.811 χ^2/NDF : 91.2/53

asym_sam4_reg_correction_rms vs Slug, Sign Corrected



Right In: 2455.103+/-0.670 χ^2/NDF : 894389.6/15

Left Out: 2040.841+/-0.526 χ^2/NDF : 504206.8/9

Right Out: 2348.446+/-0.632 χ^2/NDF : 1052421.6/18

Left In: 2047.721+/-0.526 χ^2/NDF : 357727.0/8

Left: 2044.281+/-0.372 χ^2/NDF : 862019.5/18

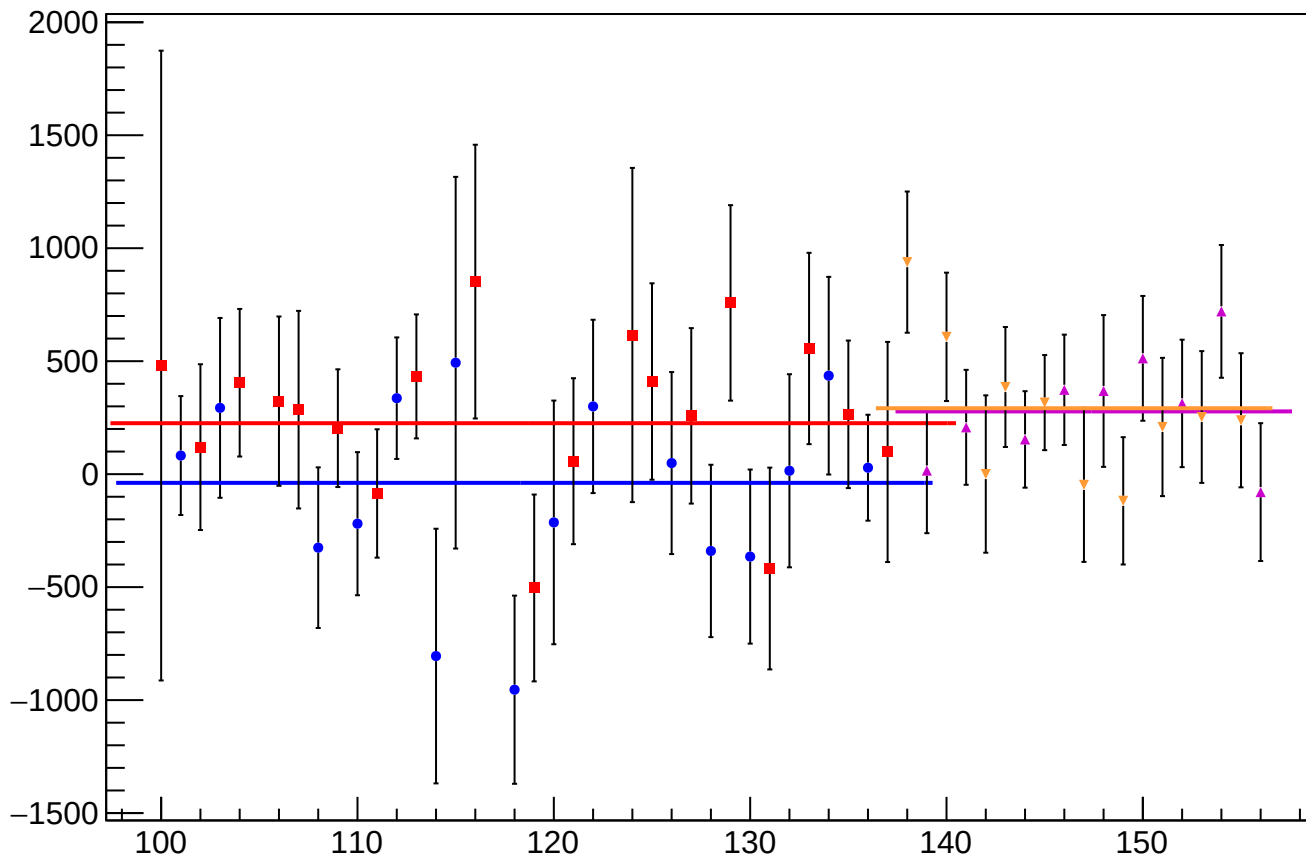
Right: 2398.691+/-0.460 χ^2/NDF : 1960216.3/34

In: 2202.960+/-0.414 χ^2/NDF : 1480969.7/24

Out: 2166.563+/-0.404 χ^2/NDF : 1696578.9/28

All: 2184.346+/-0.289 χ^2/NDF : 3181509.9/53

cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519 $\pm$ 90.619 χ^2/NDF : 14.5/15

Left Out: 291.738 $\pm$ 90.301 χ^2/NDF : 9.6/9

Right Out: 225.515 $\pm$ 87.922 χ^2/NDF : 11.4/18

Left In: 277.702 $\pm$ 89.781 χ^2/NDF : 5.9/8

Left: 284.679 $\pm$ 63.668 χ^2/NDF : 15.5/18

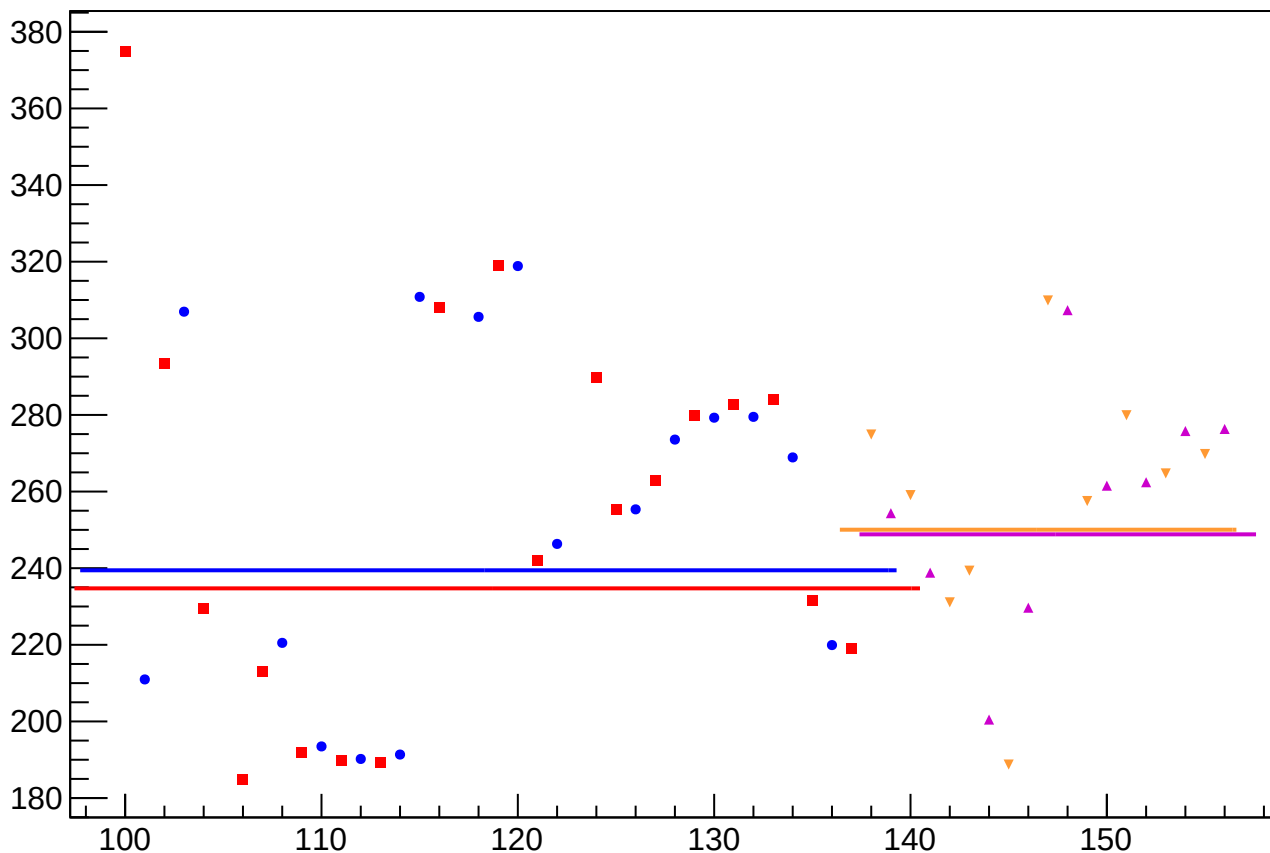
Right: 97.485 $\pm$ 63.102 χ^2/NDF : 30.3/34

In: 121.060 $\pm$ 63.779 χ^2/NDF : 26.5/24

Out: 257.742 $\pm$ 62.995 χ^2/NDF : 21.3/28

All: 190.247 $\pm$ 44.819 χ^2/NDF : 50.1/53

cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 ± 0.064 χ^2/NDF : 400958.1/15

Left Out: 250.044 ± 0.064 χ^2/NDF : 289500.6/9

Right Out: 234.733 ± 0.062 χ^2/NDF : 485238.4/18

Left In: 248.832 ± 0.063 χ^2/NDF : 221419.1/8

Left: 249.435 ± 0.045 χ^2/NDF : 511100.8/18

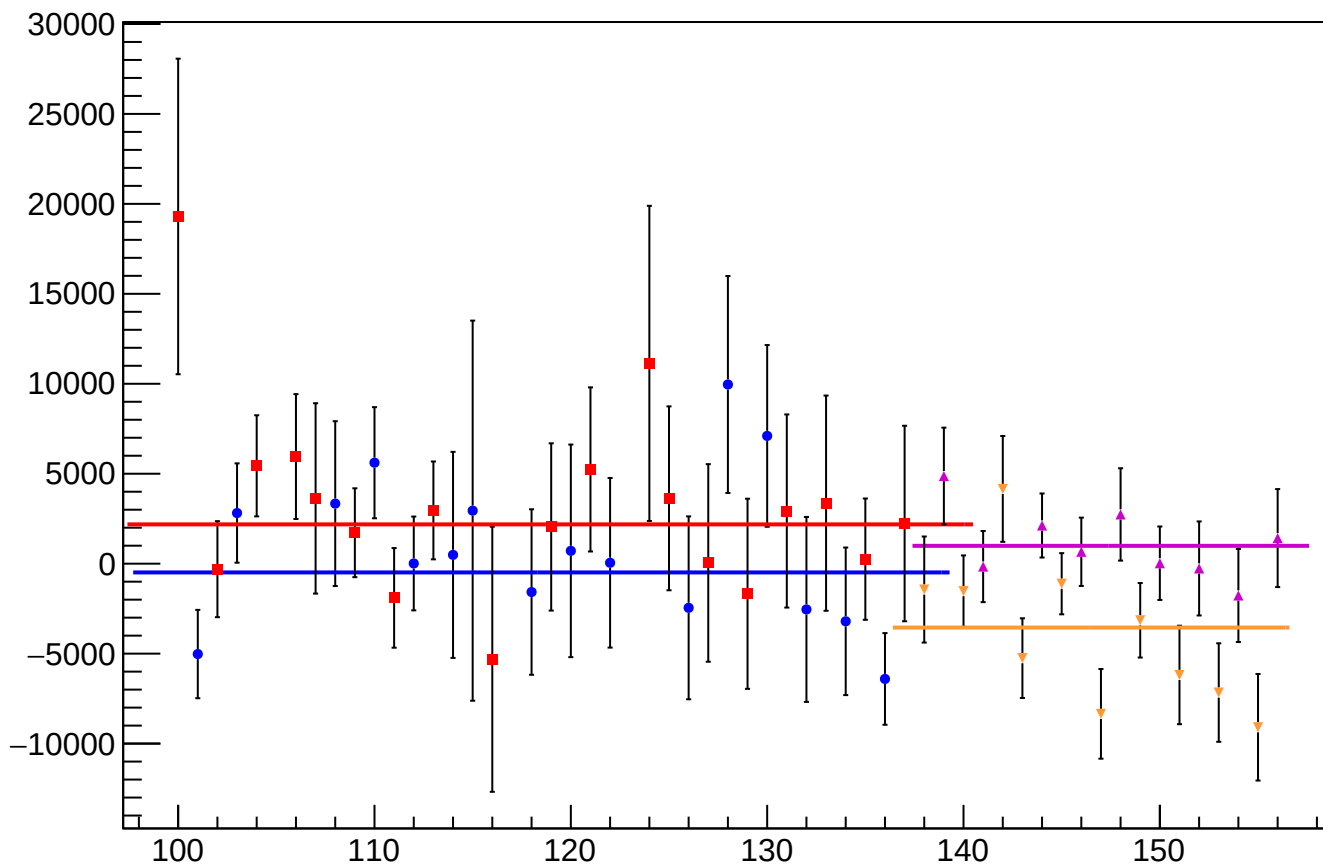
Right: 237.020 ± 0.045 χ^2/NDF : 888987.0/34

In: 244.184 ± 0.045 χ^2/NDF : 633198.7/24

Out: 242.184 ± 0.045 χ^2/NDF : 804256.6/28

All: 243.172 ± 0.032 χ^2/NDF : 1438451.0/53

asym_sam4_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -3550.210+/-743.412 χ^2/NDF :21.0/9

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 992.370+/-743.426 χ^2/NDF :4.9/8

Left: -1278.965+/-525.677 χ^2/NDF : 44.6/18

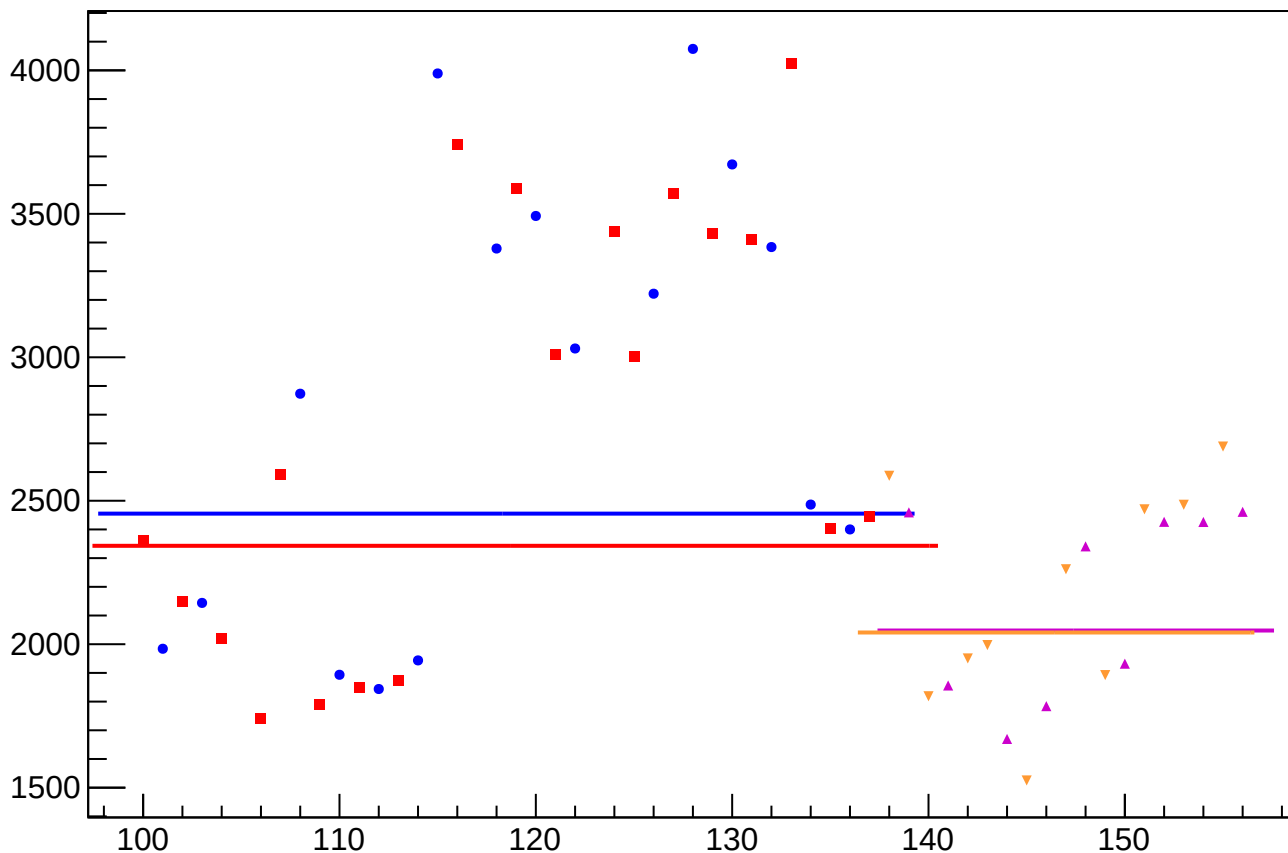
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 428.981+/-584.873 χ^2/NDF :27.6/24

Out: -1211.468+/-572.090 χ^2/NDF :58.5/28

All: -409.367+/-408.973 χ^2/NDF : 90.1/53

asym_sam4_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2040.841+/-0.526 χ^2/NDF : 504209.4/9

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2047.722+/-0.526 χ^2/NDF : 357724.5/8

Left: 2044.281+/-0.372 χ^2/NDF : 862019.6/18

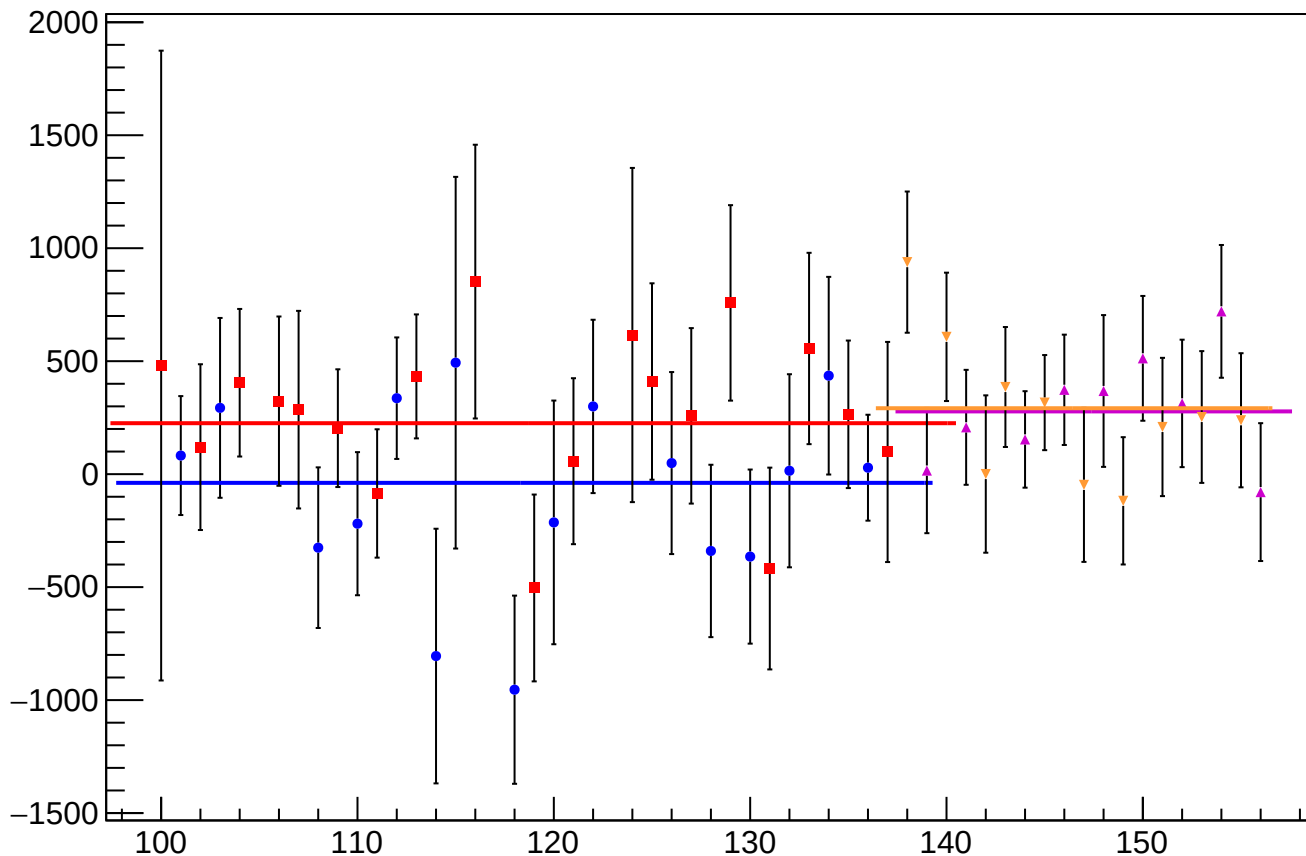
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2202.969+/-0.414 χ^2/NDF : 1480959.9/24

Out: 2164.043+/-0.405 χ^2/NDF : 1709294.7/28

All: 2183.076+/-0.289 χ^2/NDF : 3194781.9/53

eigen_cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519 ± 90.619 χ^2/NDF : 14.5/15

Left Out: 291.738 ± 90.301 χ^2/NDF : 9.6/9

Right Out: 225.515 ± 87.922 χ^2/NDF : 11.4/18

Left In: 277.702 ± 89.781 χ^2/NDF : 5.9/8

Left: 284.679 ± 63.668 χ^2/NDF : 15.5/18

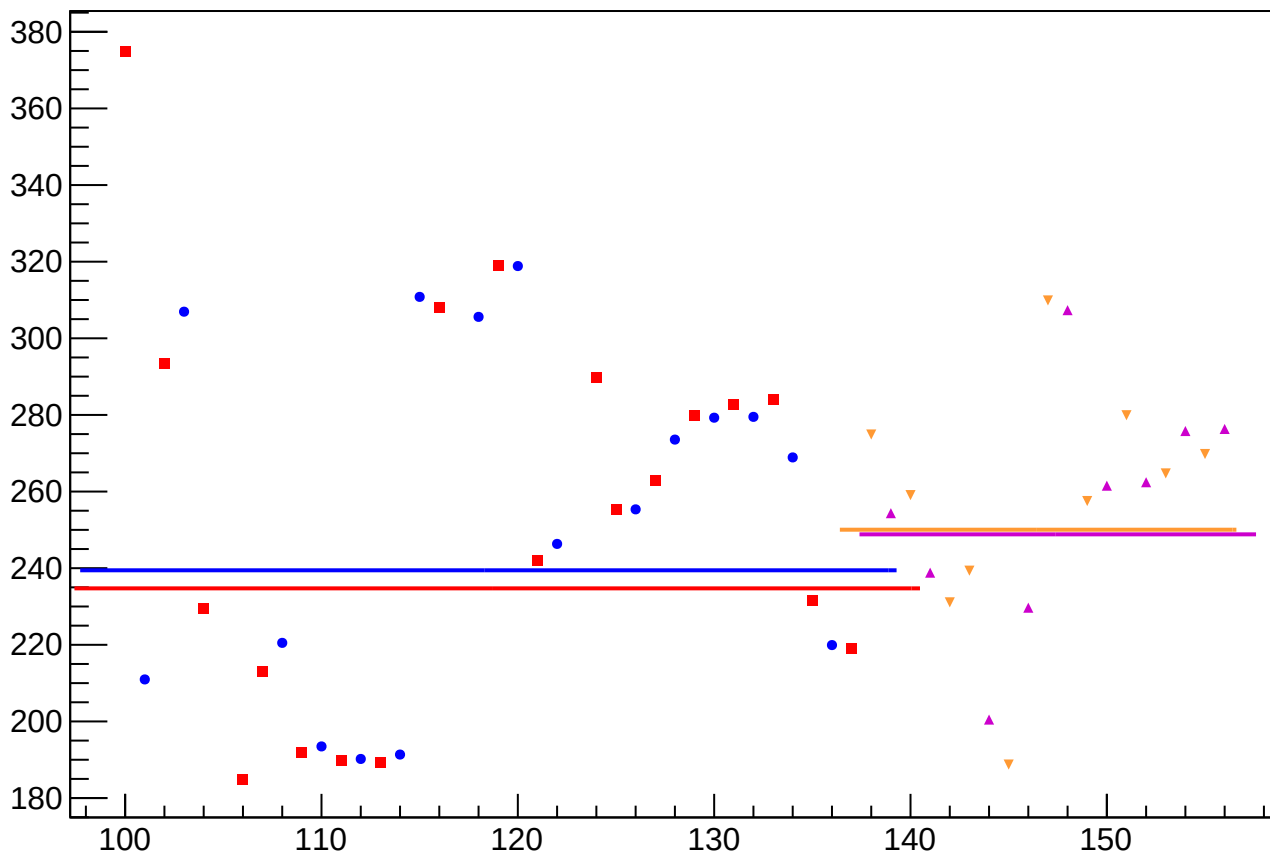
Right: 97.485 ± 63.102 χ^2/NDF : 30.3/34

In: 121.060 ± 63.779 χ^2/NDF : 26.5/24

Out: 257.742 ± 62.995 χ^2/NDF : 21.3/28

All: 190.247 ± 44.819 χ^2/NDF : 50.1/53

eigen_cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449+/-0.064 χ^2/NDF : 400958.1/15

Left Out: 250.044+/-0.064 χ^2/NDF : 289500.6/9

Right Out: 234.733+/-0.062 χ^2/NDF : 485238.4/18

Left In: 248.832+/-0.063 χ^2/NDF : 221419.1/8

Left: 249.435+/-0.045 χ^2/NDF : 511100.8/18

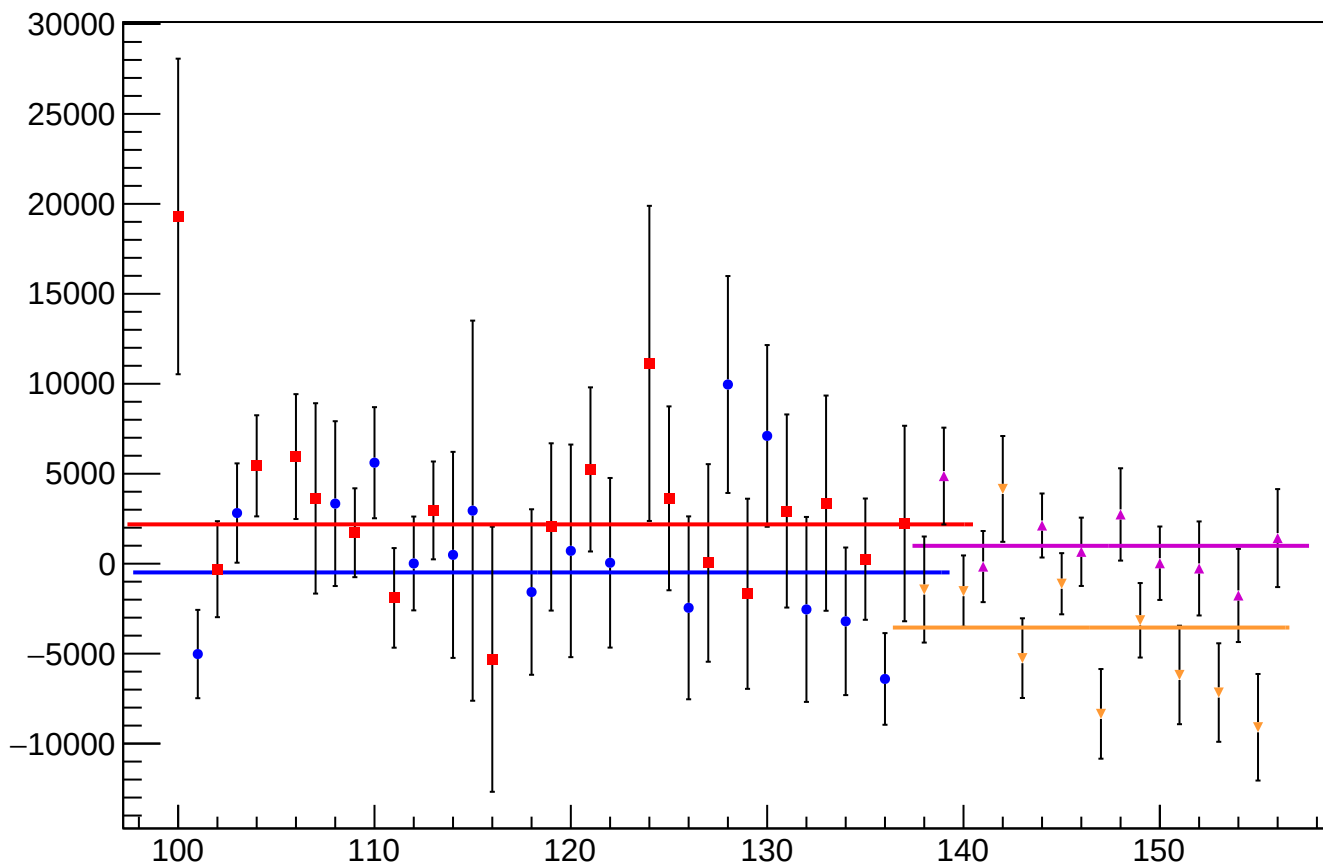
Right: 237.020+/-0.045 χ^2/NDF : 888987.0/34

In: 244.184+/-0.045 χ^2/NDF : 633198.7/24

Out: 242.184+/-0.045 χ^2/NDF : 804256.6/28

All: 243.172+/-0.032 χ^2/NDF : 1438451.0/53

asym_sam4_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -3550.210+/-743.412 χ^2/NDF :21.0/9

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 992.370+/-743.426 χ^2/NDF :4.9/8

Left: -1278.965+/-525.677 χ^2/NDF : 44.6/18

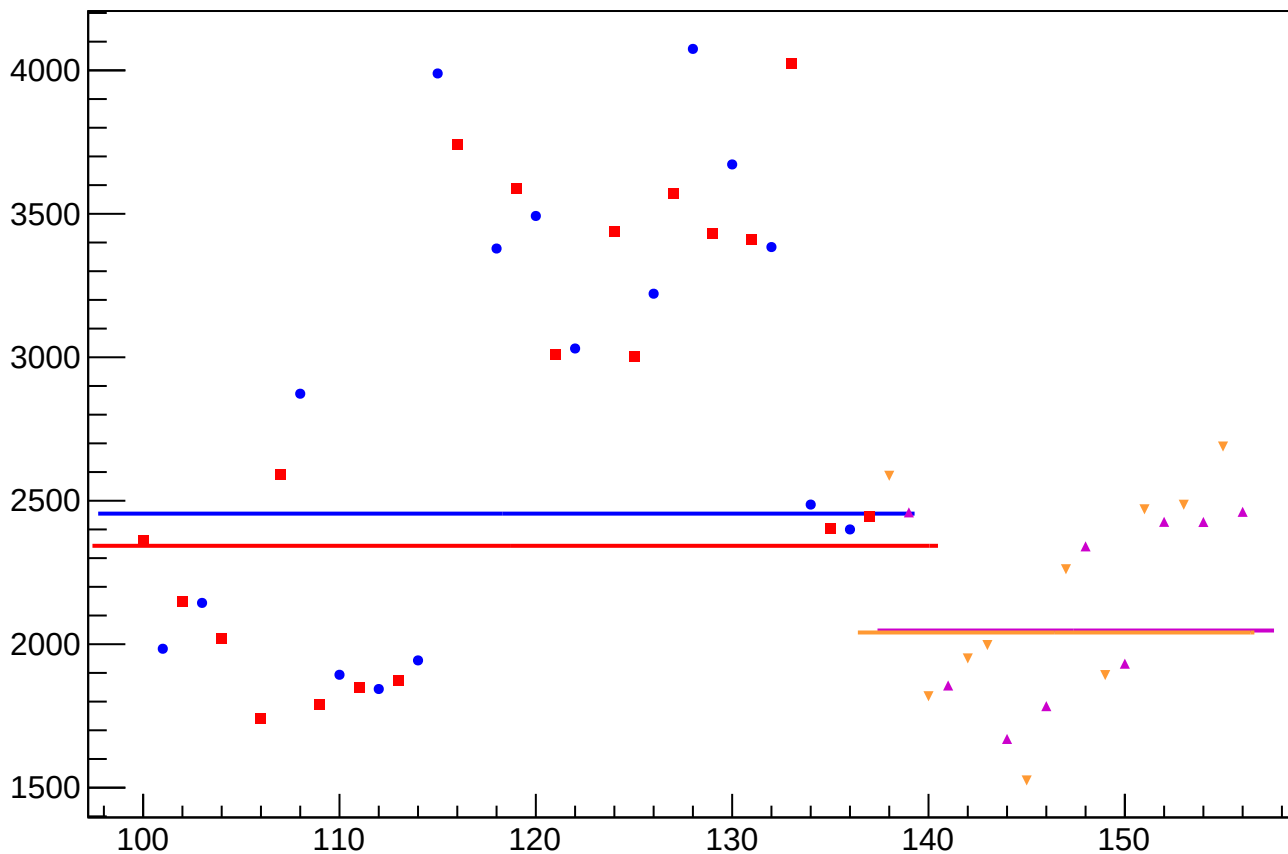
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 428.981+/-584.873 χ^2/NDF :27.6/24

Out: -1211.468+/-572.090 χ^2/NDF :58.5/28

All: -409.367+/-408.973 χ^2/NDF : 90.1/53

asym_sam4_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2040.841+/-0.526 χ^2/NDF : 504209.4/9

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2047.722+/-0.526 χ^2/NDF : 357724.5/8

Left: 2044.281+/-0.372 χ^2/NDF : 862019.6/18

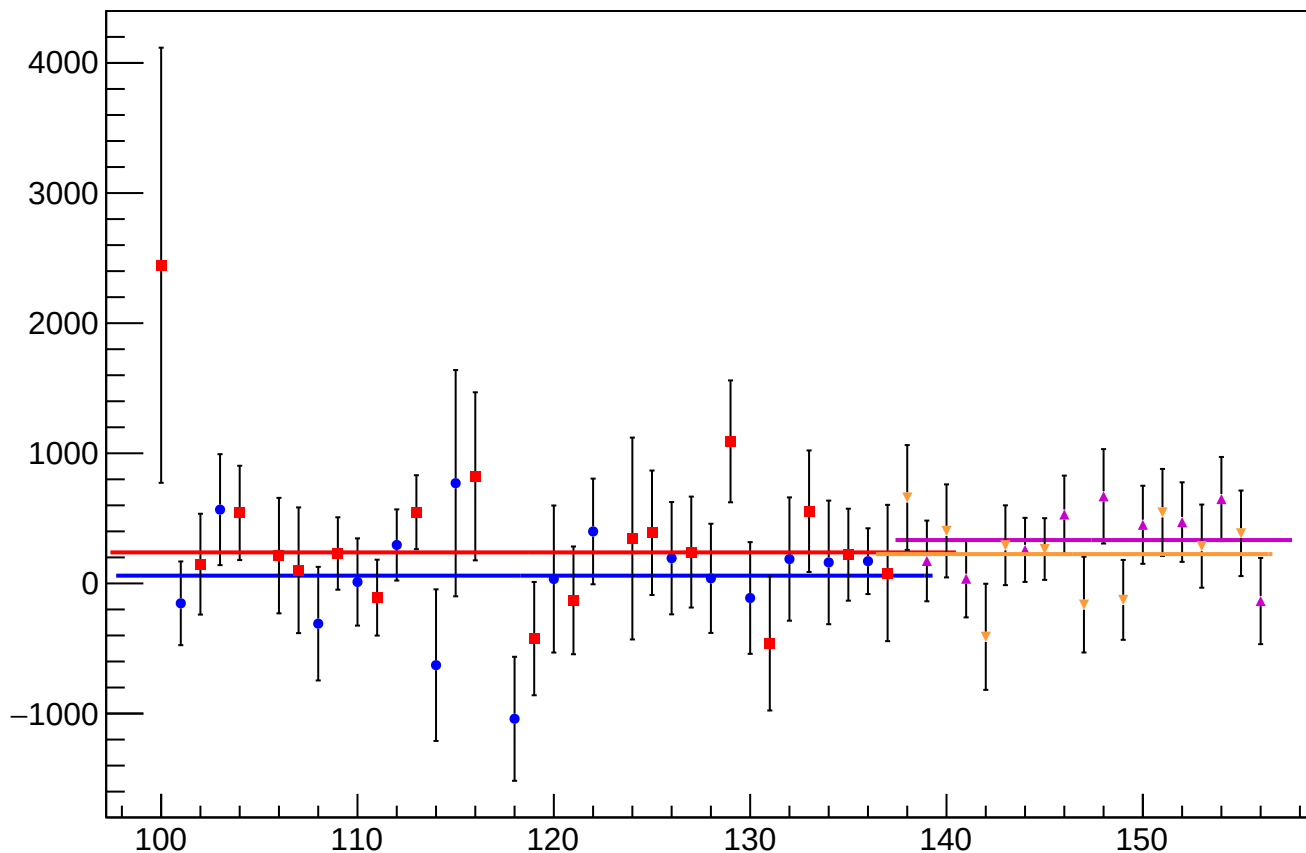
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2202.969+/-0.414 χ^2/NDF : 1480959.9/24

Out: 2164.043+/-0.405 χ^2/NDF : 1709294.7/28

All: 2183.076+/-0.289 χ^2/NDF : 3194781.9/53

dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.728 ± 99.230 χ^2/NDF : 12.0/15

Left Out: 225.508 ± 102.900 χ^2/NDF : 7.5/9

Right Out: 238.516 ± 95.062 χ^2/NDF : 14.9/18

Left In: 333.369 ± 101.273 χ^2/NDF : 6.0/8

Left: 280.298 ± 72.179 χ^2/NDF : 14.1/18

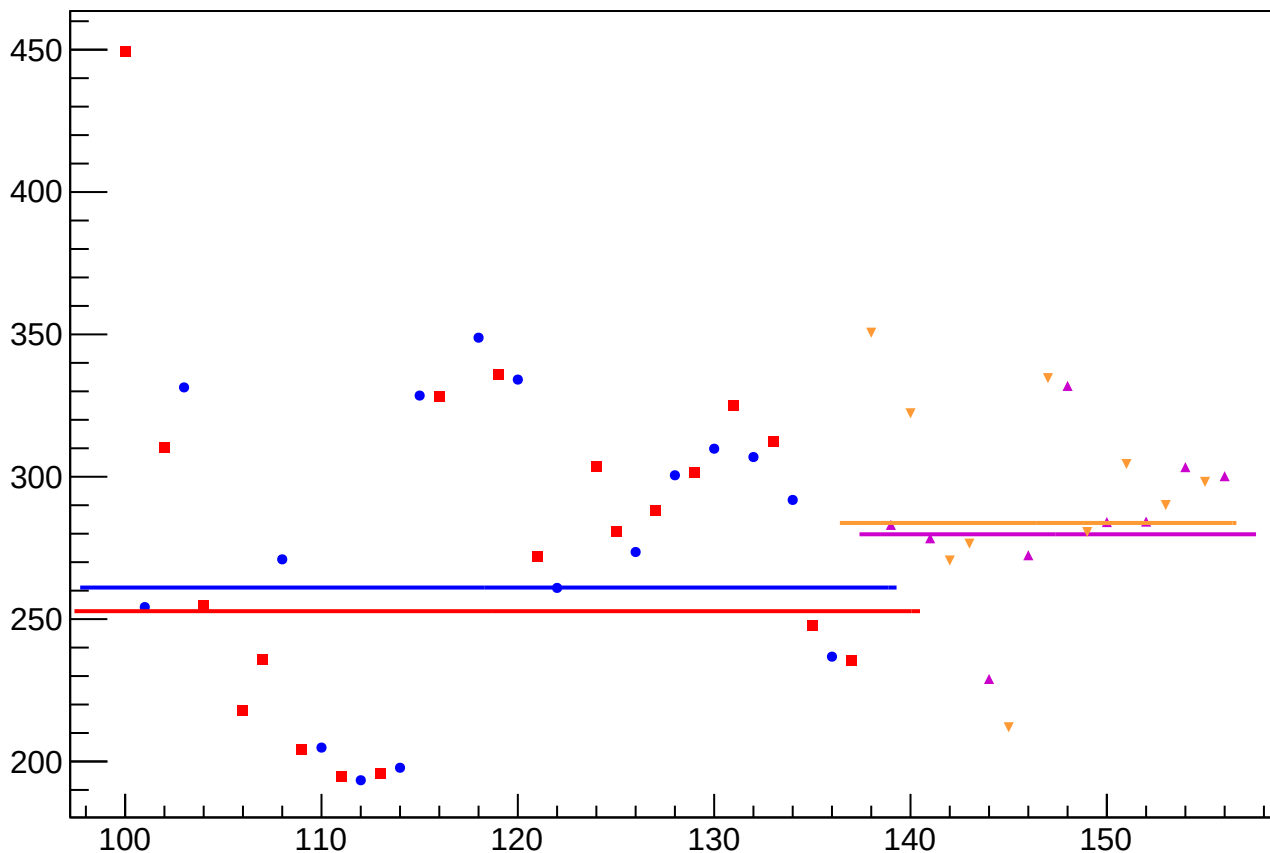
Right: 152.955 ± 68.645 χ^2/NDF : 28.6/34

In: 193.759 ± 70.877 χ^2/NDF : 21.7/24

Out: 232.526 ± 69.826 χ^2/NDF : 22.5/28

All: 213.432 ± 49.742 χ^2/NDF : 44.3/53

dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089+/-0.070 χ^2/NDF : 462662.2/15

Left Out: 283.775+/-0.073 χ^2/NDF : 315630.2/9

Right Out: 252.787+/-0.067 χ^2/NDF : 537290.6/18

Left In: 279.793+/-0.072 χ^2/NDF : 147030.3/8

Left: 281.753+/-0.051 χ^2/NDF : 464181.8/18

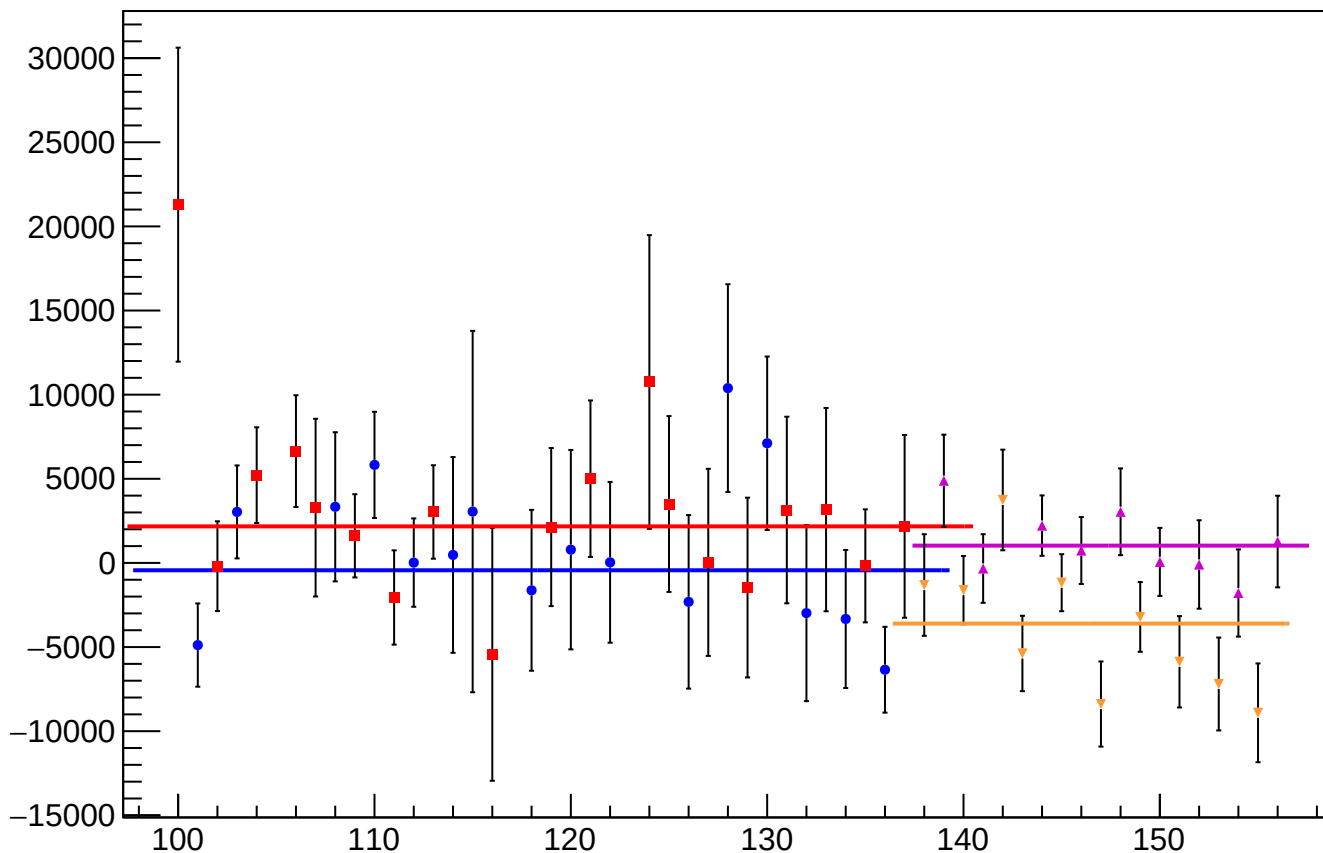
Right: 256.760+/-0.049 χ^2/NDF : 1007252.4/34

In: 270.251+/-0.050 χ^2/NDF : 644499.9/24

Out: 267.056+/-0.049 χ^2/NDF : 950782.3/28

All: 268.630+/-0.035 χ^2/NDF : 1597343.6/53

asym_sam4_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.732+/-955.134 χ^2/NDF : 21.2/15

Left Out: -3605.838+/-748.679 χ^2/NDF : 19.5/9

Right Out: 2172.091+/-901.102 χ^2/NDF : 14.0/18

Left In: 1028.613+/-753.541 χ^2/NDF : 5.1/8

Left: -1303.614+/-531.107 χ^2/NDF : 43.7/18

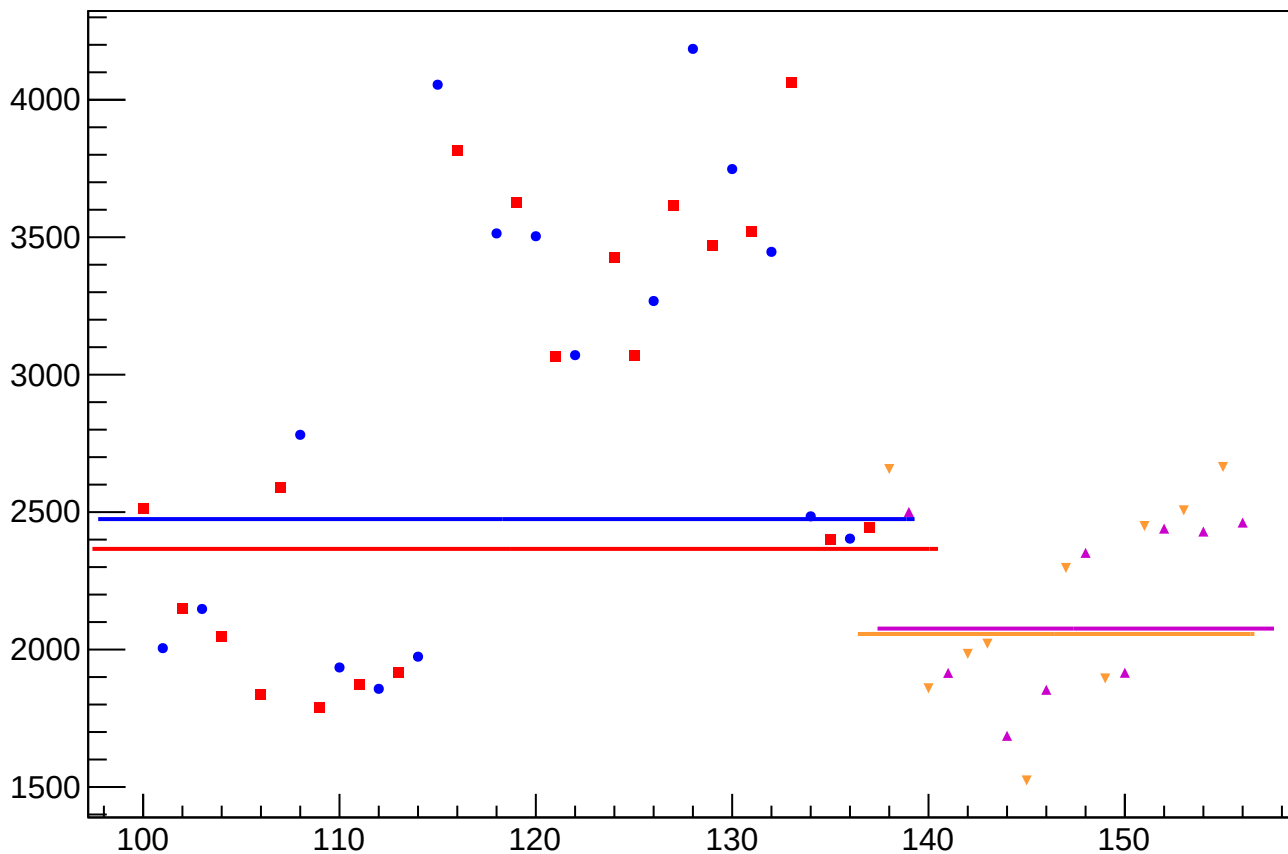
Right: 943.553+/-655.445 χ^2/NDF : 39.1/34

In: 466.451+/-591.596 χ^2/NDF : 27.7/24

Out: -1246.179+/-575.854 χ^2/NDF : 57.8/28

All: -412.952+/-412.643 χ^2/NDF : 89.9/53

asym_sam4_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.622+/-0.675 χ^2/NDF : 916250.9/15

Left Out: 2056.609+/-0.529 χ^2/NDF : 508226.8/9

Right Out: 2366.221+/-0.637 χ^2/NDF : 1077175.3/18

Left In: 2076.280+/-0.533 χ^2/NDF : 331158.8/8

Left: 2066.381+/-0.376 χ^2/NDF : 840071.5/18

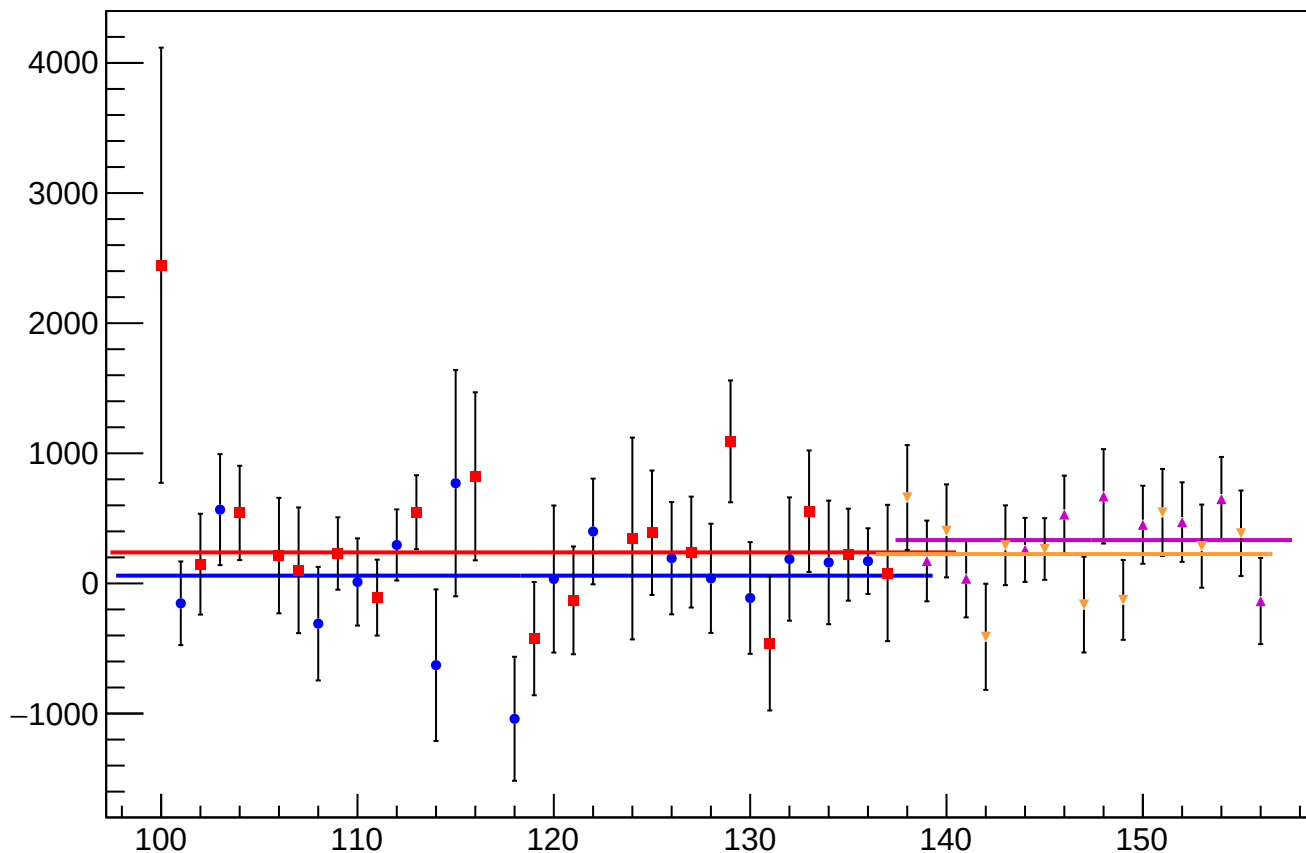
Right: 2417.269+/-0.463 χ^2/NDF : 2007056.0/34

In: 2229.099+/-0.418 χ^2/NDF : 1461822.2/24

Out: 2183.052+/-0.407 χ^2/NDF : 1725088.2/28

All: 2205.455+/-0.292 χ^2/NDF : 3193132.0/53

eigen_dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.734 $\pm$ 99.230 χ^2 /NDF: 12.0/15

Left Out: 225.510 $\pm$ 102.900 χ^2 /NDF: 7.5/9

Right Out: 238.515 $\pm$ 95.062 χ^2 /NDF: 14.9/18

Left In: 333.372 $\pm$ 101.274 χ^2 /NDF: 6.0/8

Left: 280.300 $\pm$ 72.179 χ^2 /NDF: 14.1/18

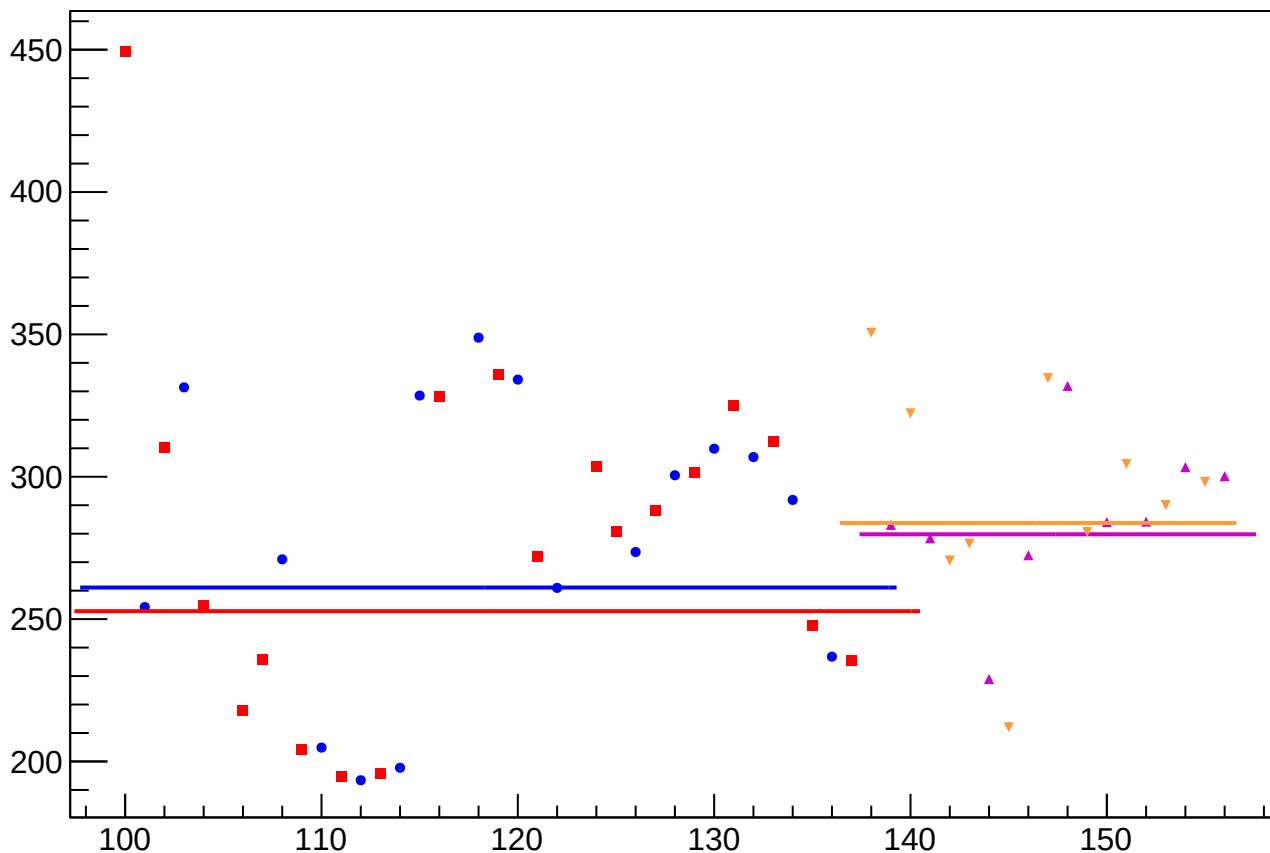
Right: 152.957 $\pm$ 68.645 χ^2 /NDF: 28.6/34

In: 193.763 $\pm$ 70.877 χ^2 /NDF: 21.7/24

Out: 232.527 $\pm$ 69.826 χ^2 /NDF: 22.5/28

All: 213.435 $\pm$ 49.742 χ^2 /NDF: 44.3/53

eigen_dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089+/-0.070 χ^2/NDF : 462665.3/15

Left Out: 283.776+/-0.073 χ^2/NDF :315625.5/9

Right Out: 252.787+/-0.067 χ^2/NDF : 537293.8/18

Left In: 279.794+/-0.072 χ^2/NDF :147028.6/8

Left: 281.753+/-0.051 χ^2/NDF : 464175.5/18

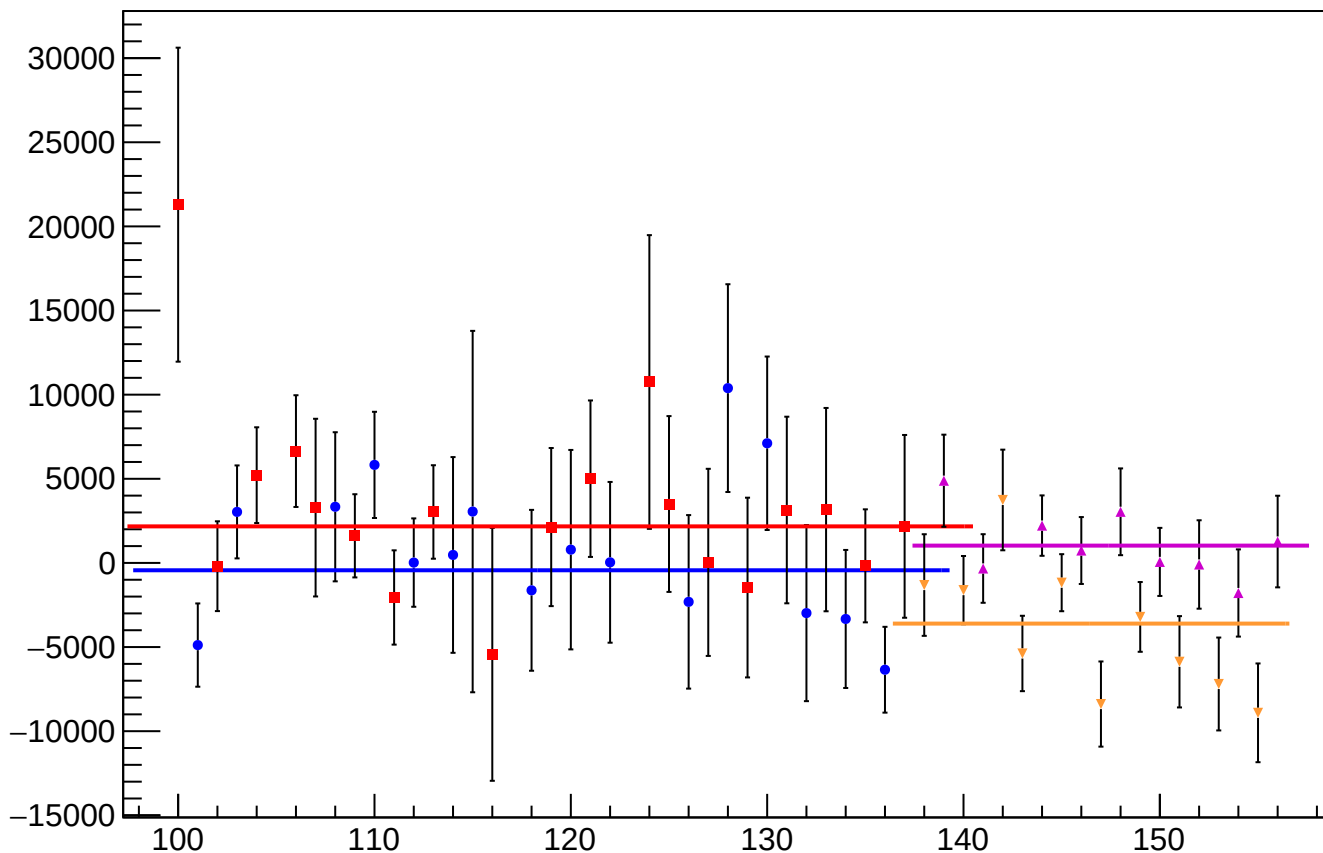
Right: 256.760+/-0.049 χ^2/NDF : 1007258.7/34

In: 270.251+/-0.050 χ^2/NDF :644502.8/24

Out: 267.056+/-0.049 χ^2/NDF :950784.1/28

All: 268.630+/-0.035 χ^2/NDF : 1597348.4/53

asym_sam4_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.731+/-955.133 χ^2/NDF : 21.2/15

Left Out: -3605.833+/-748.678 χ^2/NDF : 19.5/9

Right Out: 2172.089+/-901.101 χ^2/NDF : 14.0/18

Left In: 1028.613+/-753.541 χ^2/NDF : 5.1/8

Left: -1303.613+/-531.106 χ^2/NDF : 43.7/18

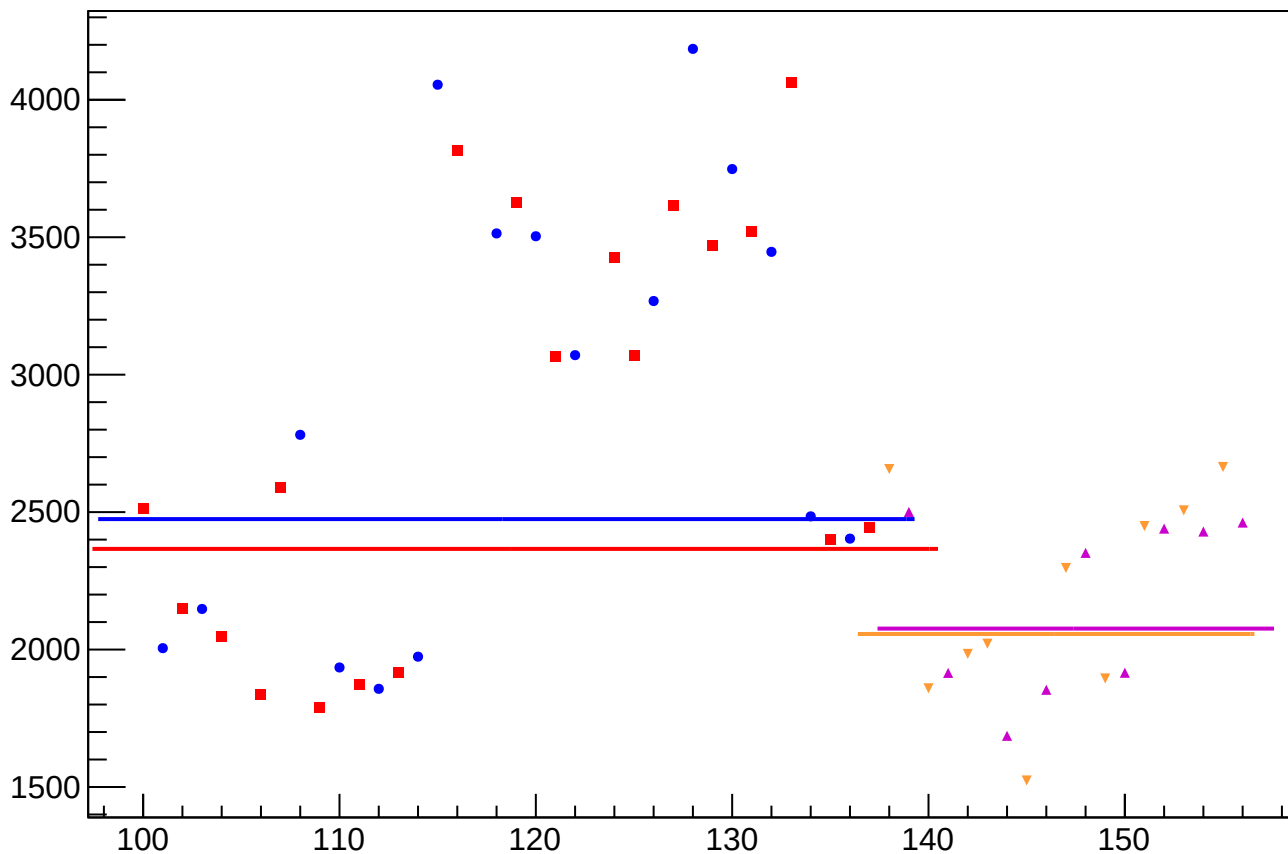
Right: 943.553+/-655.444 χ^2/NDF : 39.1/34

In: 466.451+/-591.595 χ^2/NDF : 27.7/24

Out: -1246.178+/-575.854 χ^2/NDF : 57.8/28

All: -412.952+/-412.643 χ^2/NDF : 89.9/53

asym_sam4_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.620 $\pm$ 0.675 χ^2 /NDF: 916254.1/15

Left Out: 2056.607 $\pm$ 0.529 χ^2 /NDF: 508229.7/9

Right Out: 2366.219 $\pm$ 0.637 χ^2 /NDF: 1077177.7/18

Left In: 2076.279 $\pm$ 0.533 χ^2 /NDF: 331157.3/8

Left: 2066.379 $\pm$ 0.376 χ^2 /NDF: 840073.0/18

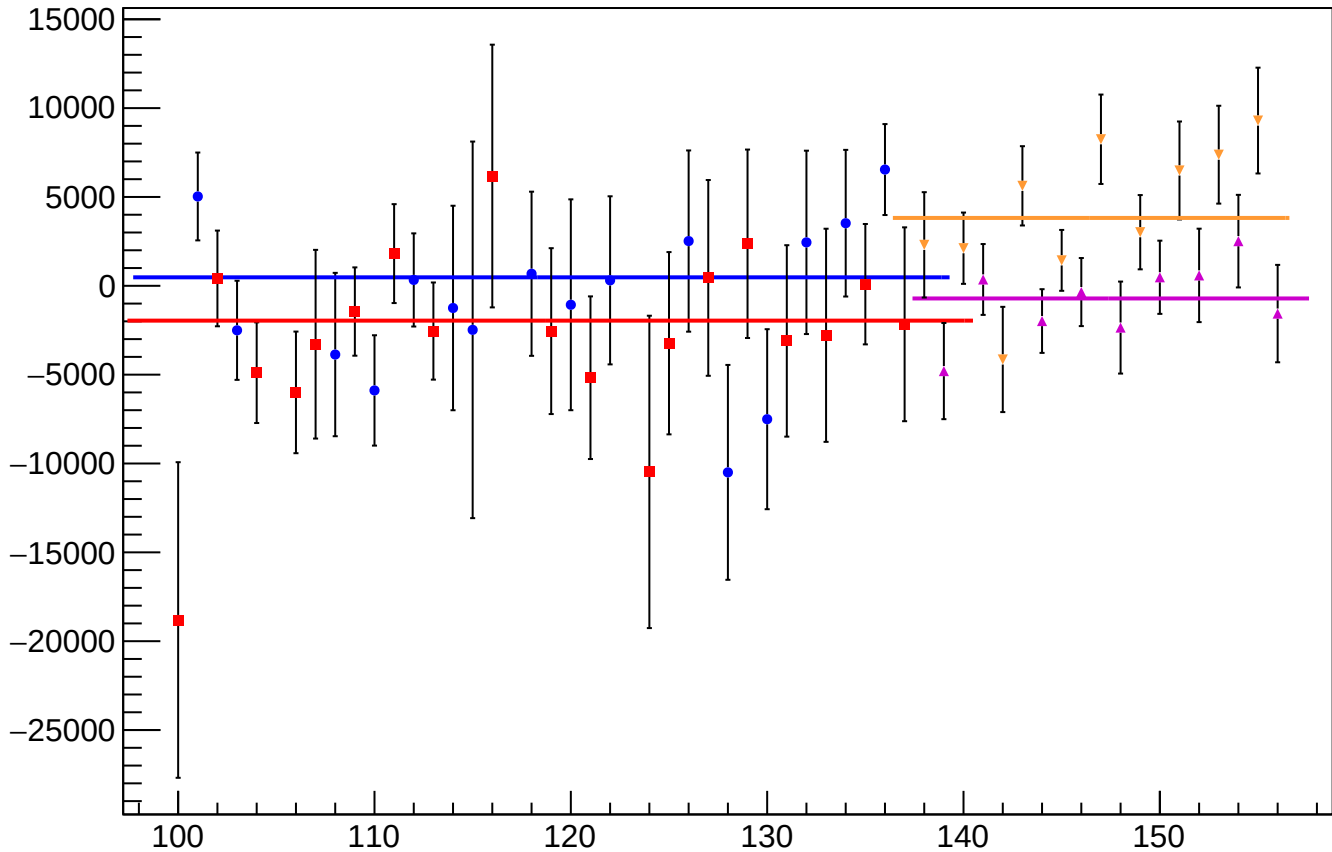
Right: 2417.267 $\pm$ 0.463 χ^2 /NDF: 2007061.7/34

In: 2229.098 $\pm$ 0.418 χ^2 /NDF: 1461823.4/24

Out: 2183.050 $\pm$ 0.407 χ^2 /NDF: 1725094.2/28

All: 2205.453 $\pm$ 0.292 χ^2 /NDF: 3193139.6/53

asym_sam4_mean vs Slug, Sign Corrected



Right In: 477.284 ± 952.752 $\chi^2/\text{NDF}: 22.1/15$

Left Out: 3819.956 ± 749.249 $\chi^2/\text{NDF}: 20.1/9$

Right Out: -1959.491 ± 899.702 $\chi^2/\text{NDF}: 12.8/18$

Left In: -712.174 ± 749.102 $\chi^2/\text{NDF}: 5.7/8$

Left: 1553.447 ± 529.747 $\chi^2/\text{NDF}: 44.1/18$

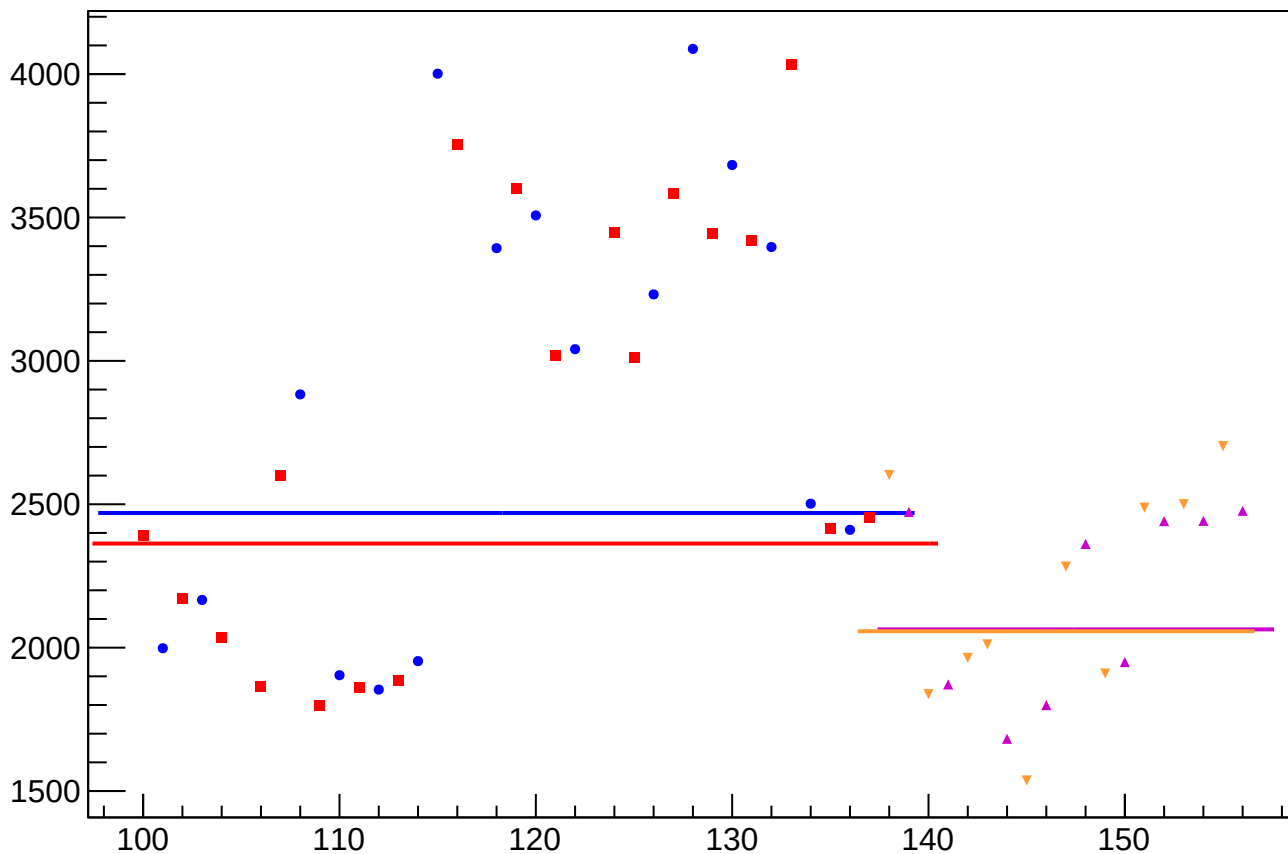
Right: -810.830 ± 654.136 $\chi^2/\text{NDF}: 38.4/34$

In: -257.771 ± 588.879 $\chi^2/\text{NDF}: 28.8/24$

Out: 1453.205 ± 575.747 $\chi^2/\text{NDF}: 57.3/28$

All: 617.007 ± 411.679 $\chi^2/\text{NDF}: 90.4/53$

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2469.639 $\pm$ 0.674 χ^2/NDF : 886179.0/15

Left Out: 2057.310 $\pm$ 0.530 χ^2/NDF : 499526.7/9

Right Out: 2363.052 $\pm$ 0.636 χ^2/NDF : 1043344.3/18

Left In: 2063.690 $\pm$ 0.530 χ^2/NDF : 354604.5/8

Left: 2060.501 $\pm$ 0.375 χ^2/NDF : 854203.7/18

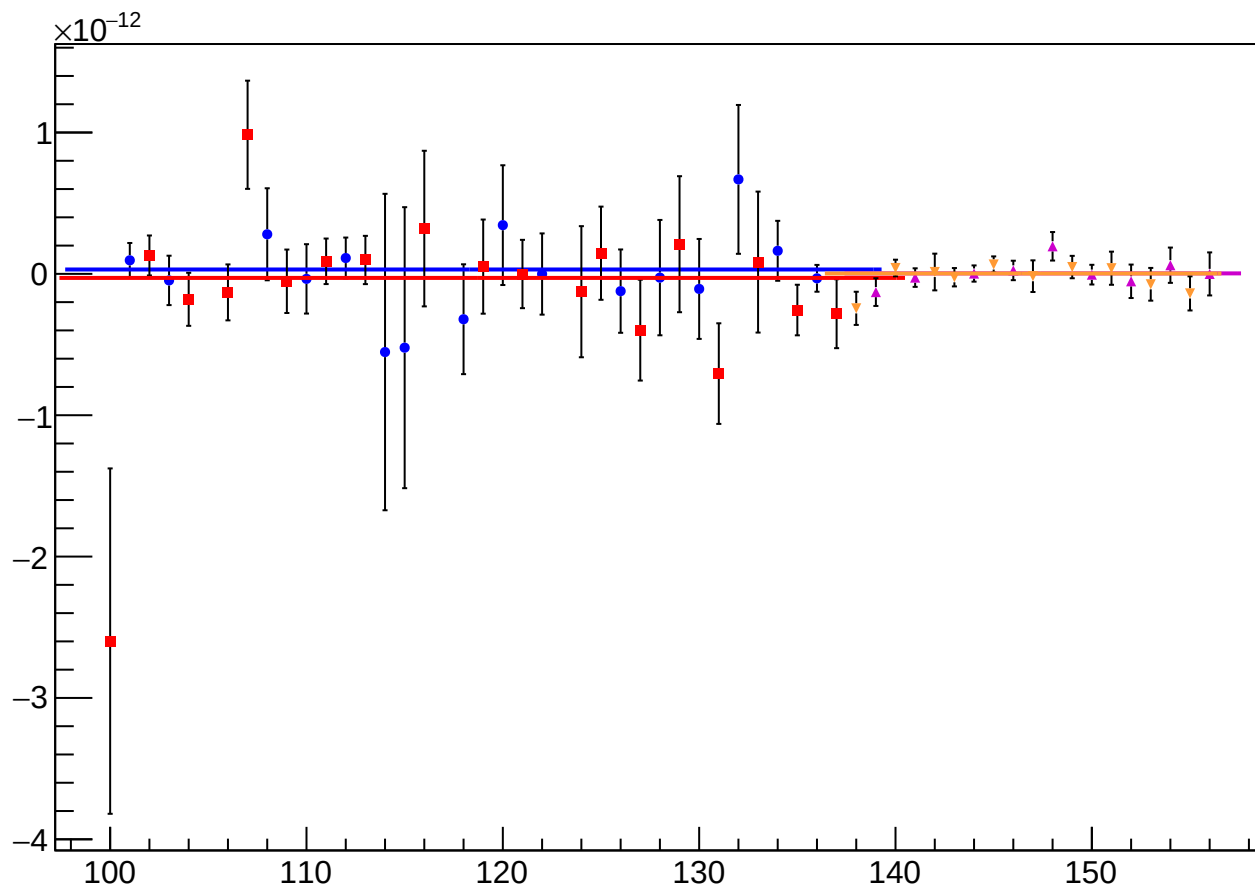
Right: 2413.296 $\pm$ 0.463 χ^2/NDF : 1942755.0/34

In: 2218.773 $\pm$ 0.416 χ^2/NDF : 1465162.6/24

Out: 2182.515 $\pm$ 0.407 χ^2/NDF : 1679252.9/28

All: 2200.235 $\pm$ 0.291 χ^2/NDF : 3148292.1/53

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 : 8.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 6.2/8

Left: 0.000+/-0.000 χ^2/NDF : 14.7/18

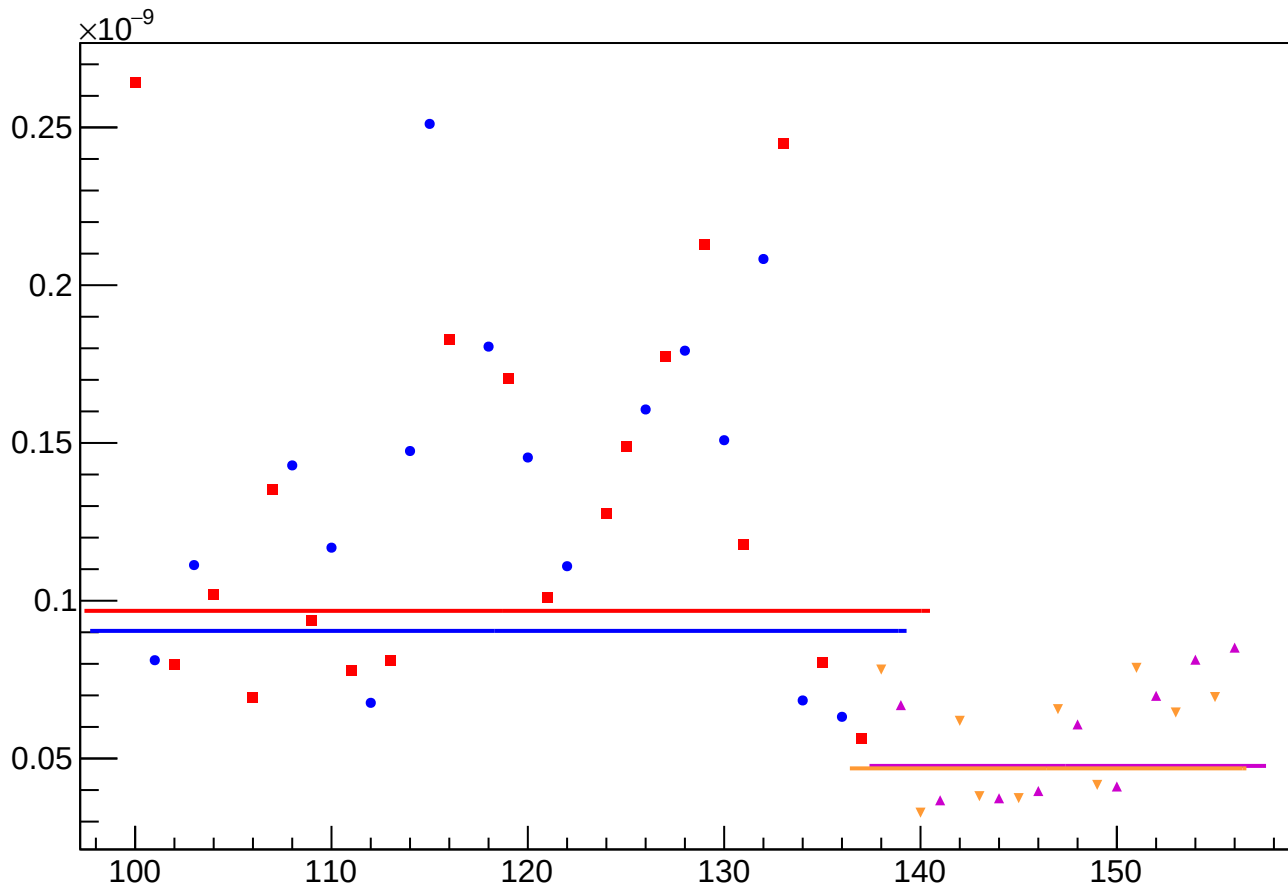
Right: 0.000+/-0.000 χ^2/NDF : 29.9/34

In: 0.000+/-0.000 χ^2/NDF : 12.5/24

Out: -0.000+/-0.000 χ^2/NDF : 32.0/28

All: 0.000+/-0.000 χ^2/NDF : 44.6/53

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 : 703774.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 851500.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 611523.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1316138.8/18

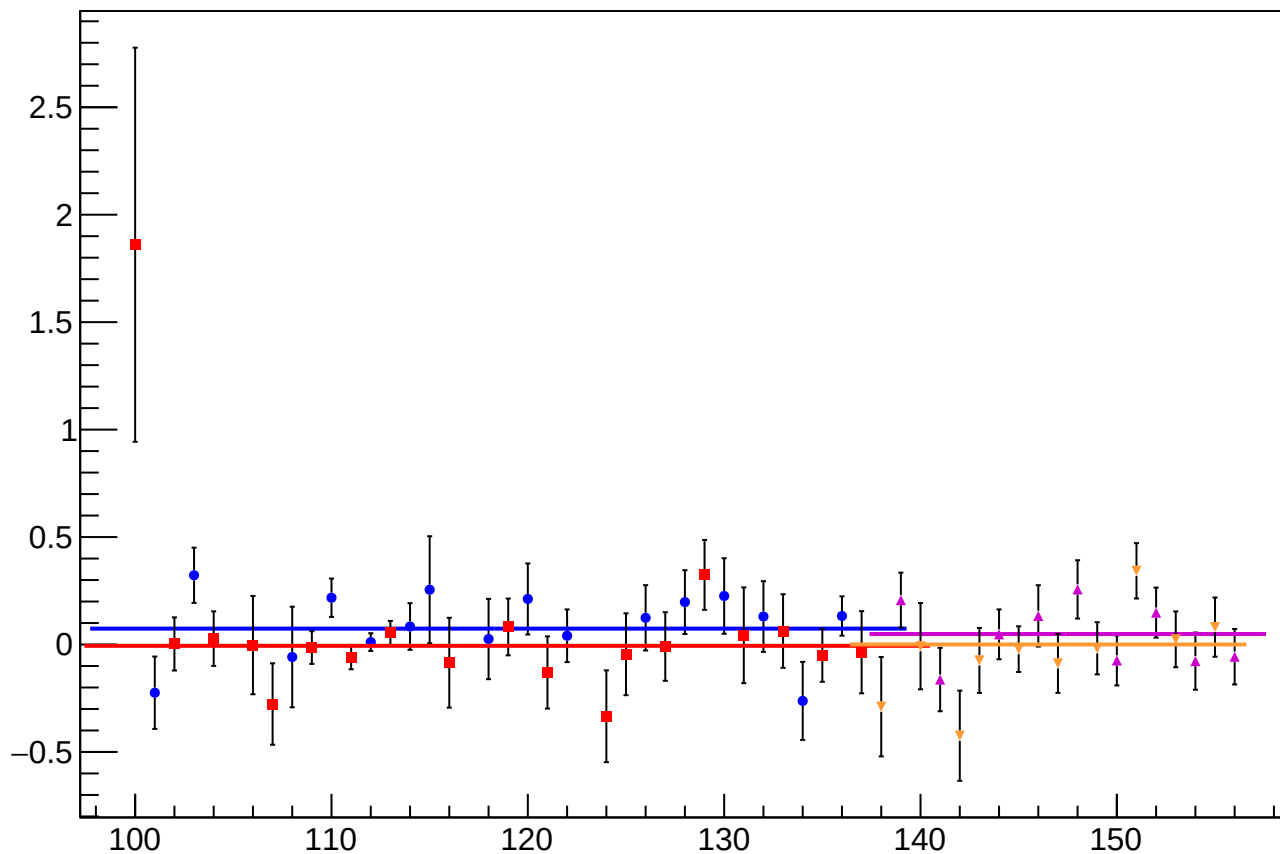
Right: 0.000+/-0.000 χ^2/NDF : 1791911.9/34

In: 0.000+/-0.000 χ^2/NDF : 2580534.8/24

Out: 0.000+/-0.000 χ^2/NDF : 2855411.3/28

All: 0.000+/-0.000 χ^2/NDF : 5436868.9/53

asym_sam4_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.027 χ^2 /NDF: 19.0/15

Left Out: 0.000 $\pm$ 0.045 χ^2 /NDF:13.8/9

Right Out: -0.006 $\pm$ 0.027 χ^2 /NDF: 16.4/18

Left In: 0.049 $\pm$ 0.043 χ^2 /NDF:9.7/8

Left: 0.026 $\pm$ 0.031 χ^2 /NDF: 24.1/18

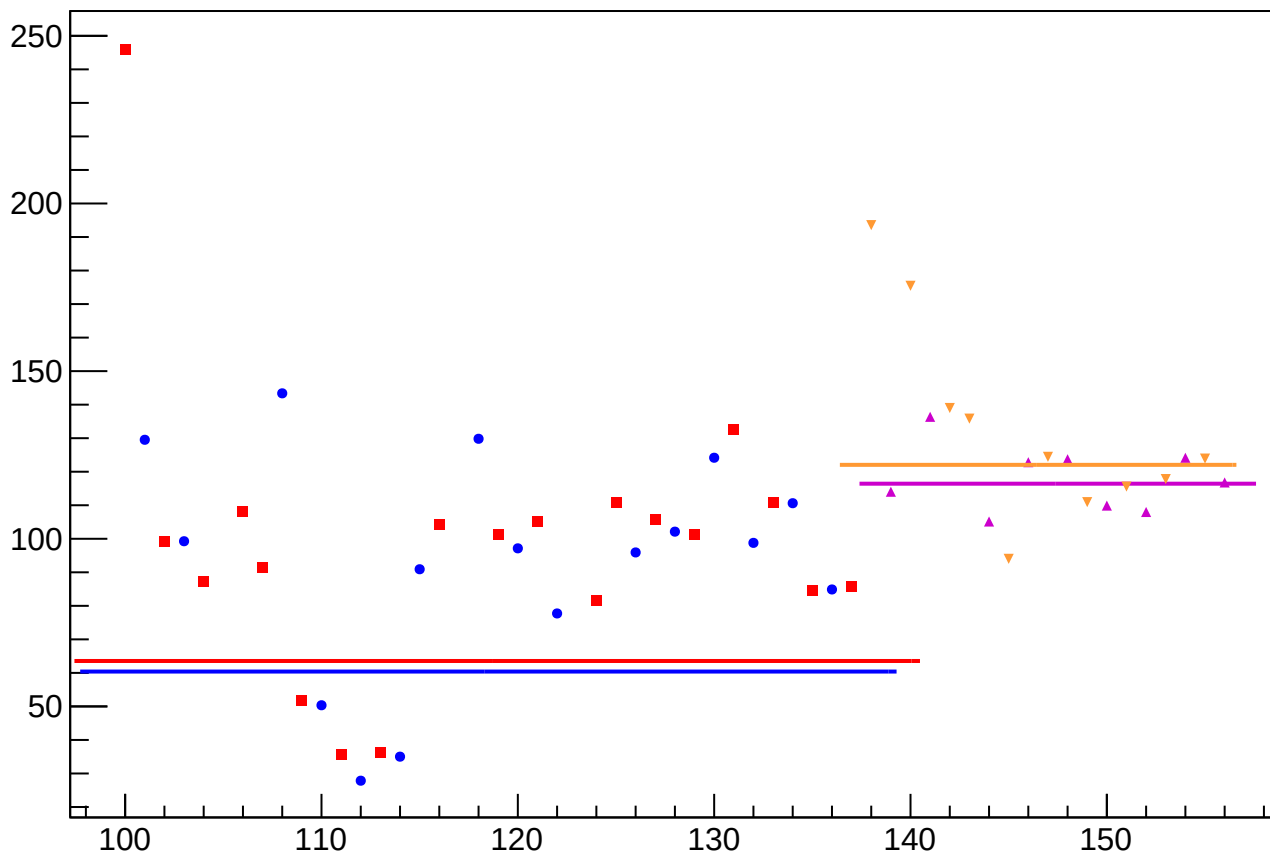
Right: 0.034 $\pm$ 0.019 χ^2 /NDF: 39.8/34

In: 0.067 $\pm$ 0.023 χ^2 /NDF:28.9/24

Out: -0.004 $\pm$ 0.023 χ^2 /NDF:30.3/28

All: 0.031 $\pm$ 0.016 χ^2 /NDF: 64.0/53

asym_sam4_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.401 $\pm$ 0.019 χ^2 /NDF: 3538126.0/15

Left Out: 122.050 $\pm$ 0.032 χ^2 /NDF: 526396.6/9

Right Out: 63.553 $\pm$ 0.019 χ^2 /NDF: 2654516.9/18

Left In: 116.429 $\pm$ 0.030 χ^2 /NDF: 89626.0/8

Left: 119.085 $\pm$ 0.022 χ^2 /NDF: 632415.6/18

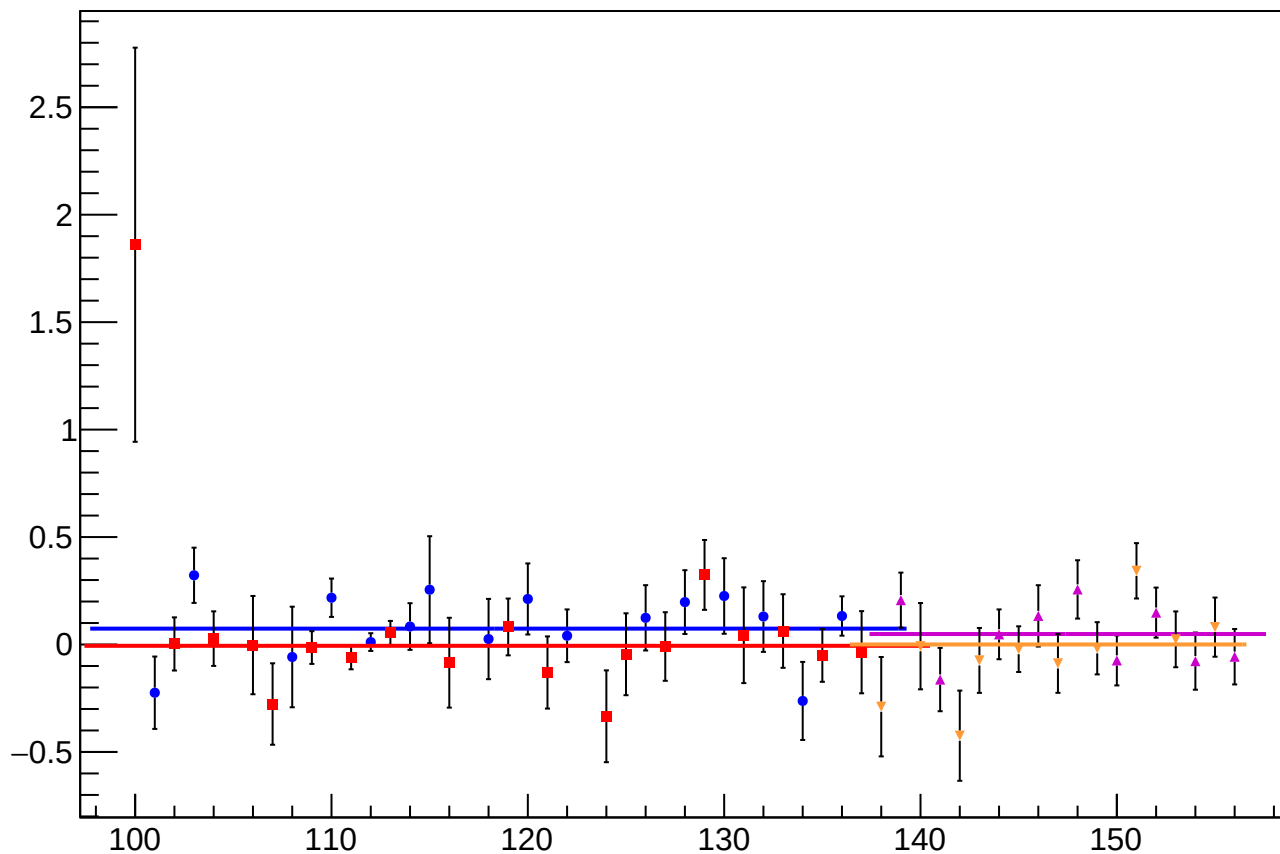
Right: 61.987 $\pm$ 0.013 χ^2 /NDF: 6206346.3/34

In: 76.422 $\pm$ 0.016 χ^2 /NDF: 6088223.4/24

Out: 78.848 $\pm$ 0.016 χ^2 /NDF: 5666735.0/28

All: 77.623 $\pm$ 0.011 χ^2 /NDF: 11766140.1/53

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: 0.000 ± 0.045 $\chi^2/\text{NDF}: 13.8/9$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.049 ± 0.043 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.026 ± 0.031 $\chi^2/\text{NDF}: 24.1/18$

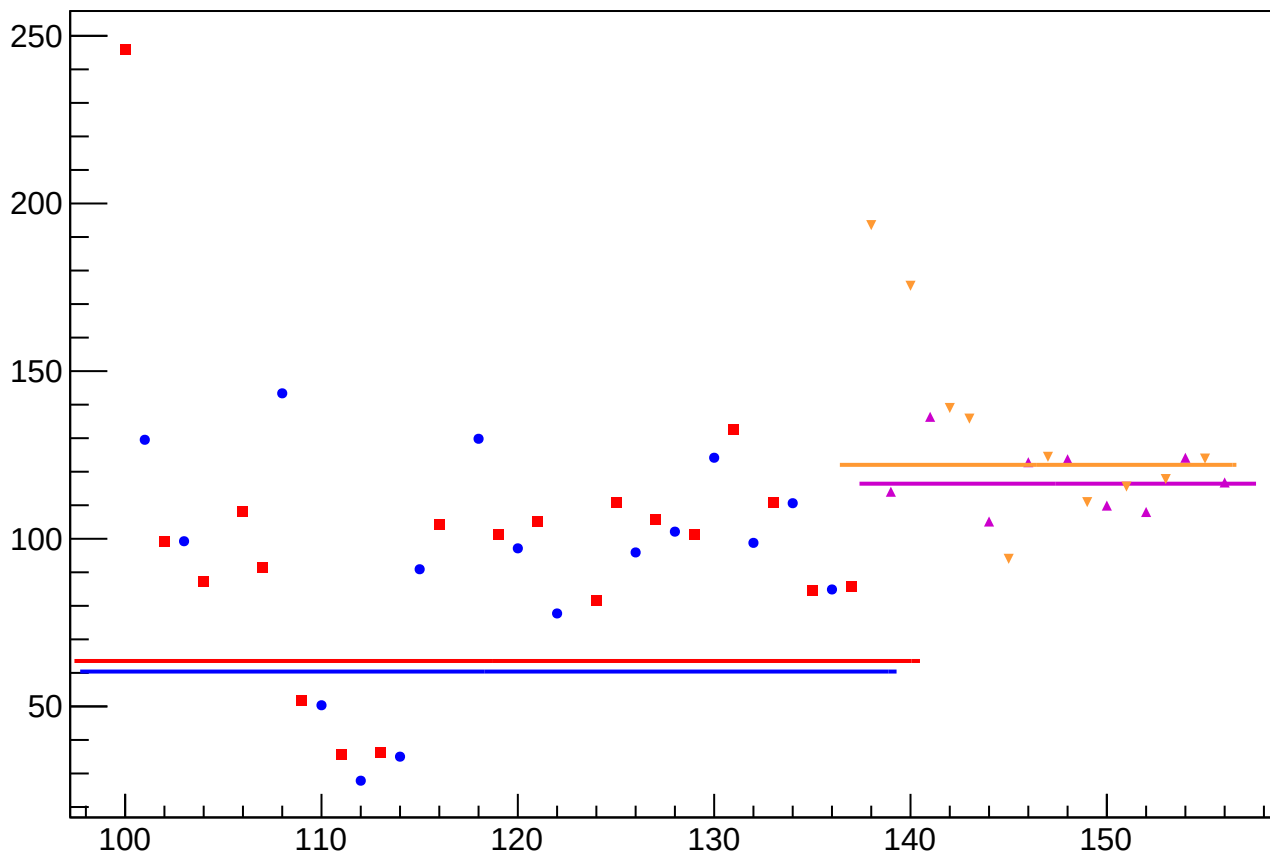
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.067 ± 0.023 $\chi^2/\text{NDF}: 28.9/24$

Out: -0.004 ± 0.023 $\chi^2/\text{NDF}: 30.3/28$

All: 0.031 ± 0.016 $\chi^2/\text{NDF}: 64.0/53$

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: 122.050+/-0.032 χ^2/NDF : 526396.6/9

Right Out: 63.553+/-0.019 χ^2/NDF : 2654516.9/18

Left In: 116.429+/-0.030 χ^2/NDF : 89626.0/8

Left: 119.085+/-0.022 χ^2/NDF : 632415.6/18

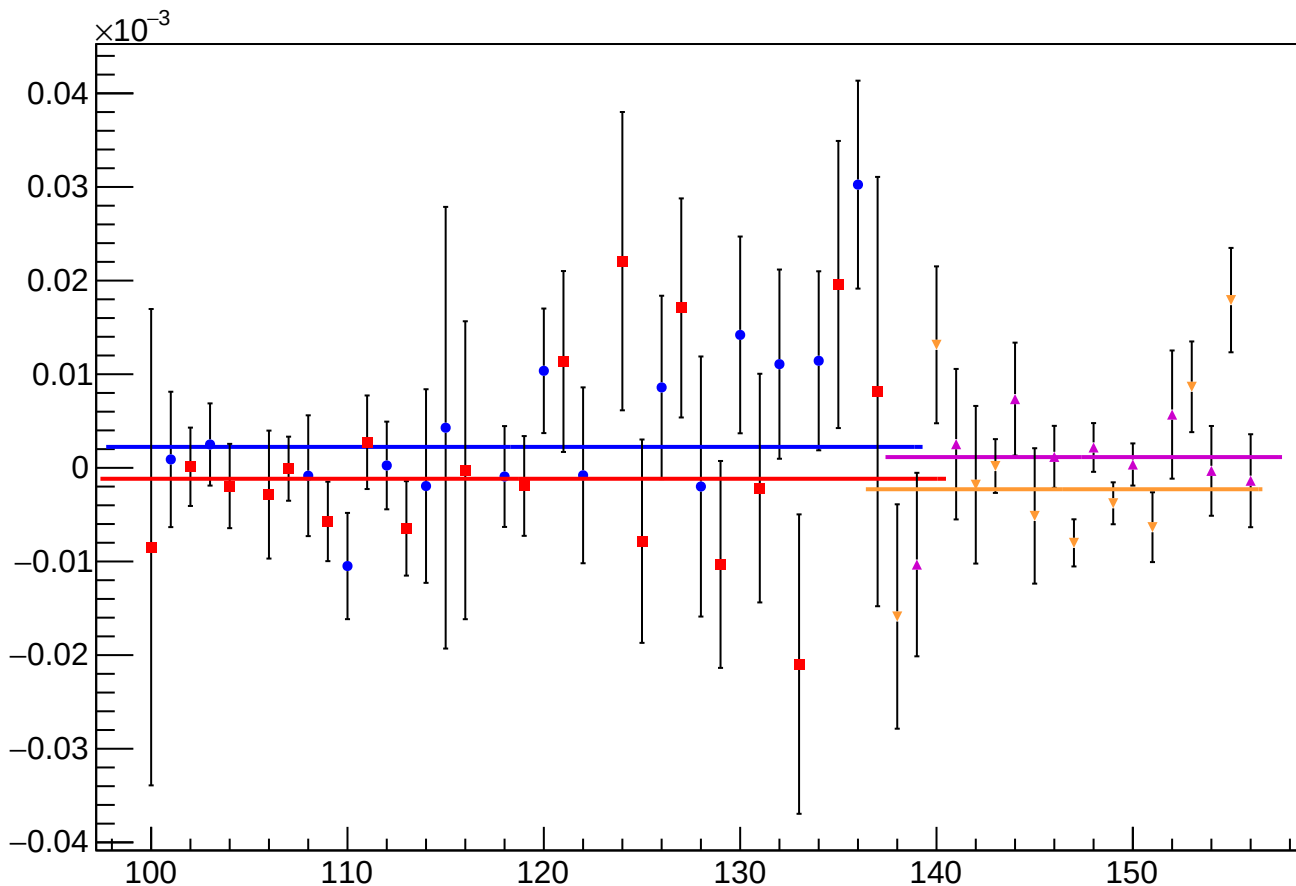
Right: 61.987+/-0.013 χ^2/NDF : 6206346.3/34

In: 76.422+/-0.016 χ^2/NDF : 6088223.4/24

Out: 78.848+/-0.016 χ^2/NDF : 5666735.0/28

All: 77.623+/-0.011 χ^2/NDF : 11766140.1/53

asym_sam4_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.4/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:30.6/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:3.5/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 37.9/18

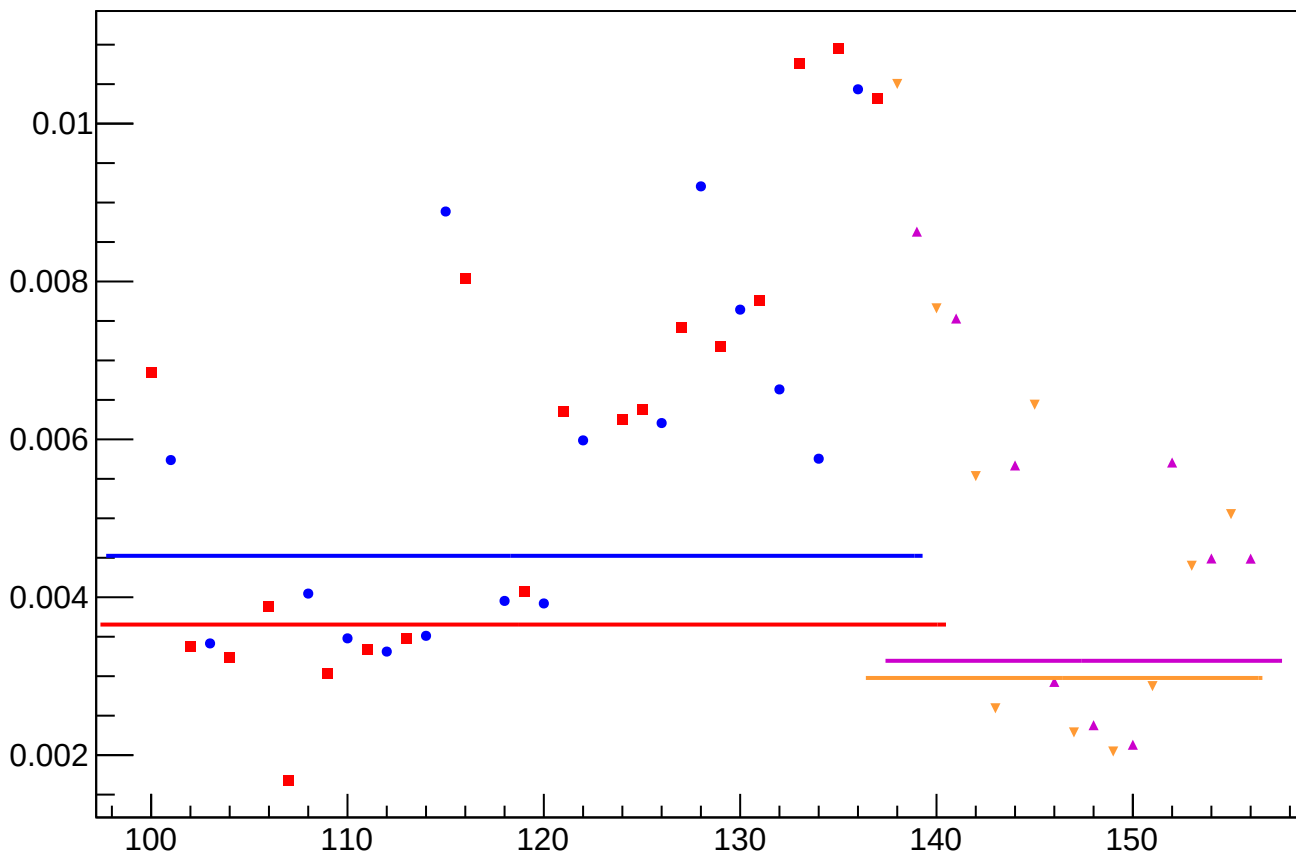
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 33.6/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:21.2/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:45.1/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 71.9/53

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: 0.003+/-0.000 χ^2/NDF : 3039109.4/9

Right Out: 0.004+/-0.000 χ^2/NDF : 2933246.9/18

Left In: 0.003+/-0.000 χ^2/NDF : 2740989.0/8

Left: 0.003+/-0.000 χ^2/NDF : 5810072.0/18

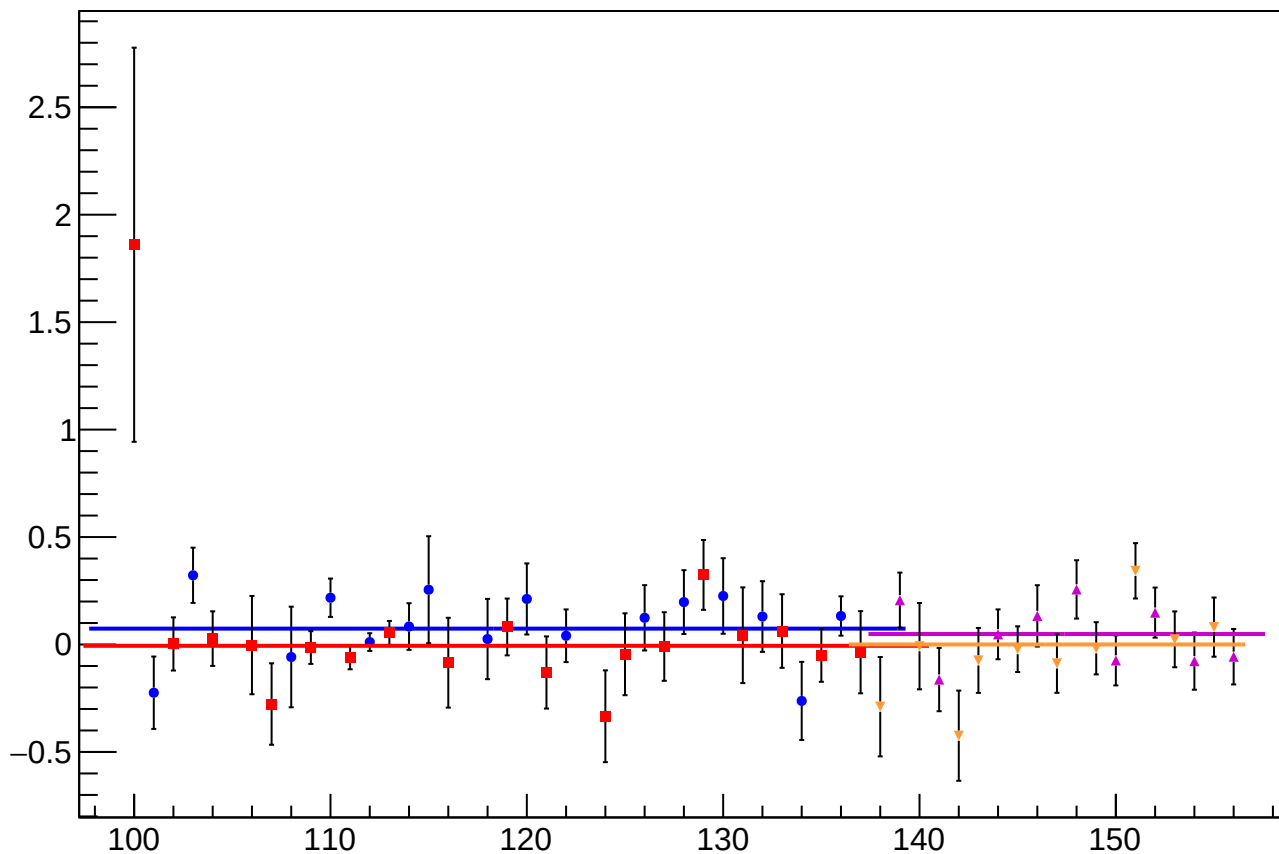
Right: 0.004+/-0.000 χ^2/NDF : 4928784.4/34

In: 0.004+/-0.000 χ^2/NDF : 5175160.5/24

Out: 0.003+/-0.000 χ^2/NDF : 6218255.3/28

All: 0.003+/-0.000 χ^2/NDF : 11553819.1/53

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: 0.000 ± 0.045 $\chi^2/\text{NDF}: 13.8/9$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.049 ± 0.043 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.026 ± 0.031 $\chi^2/\text{NDF}: 24.1/18$

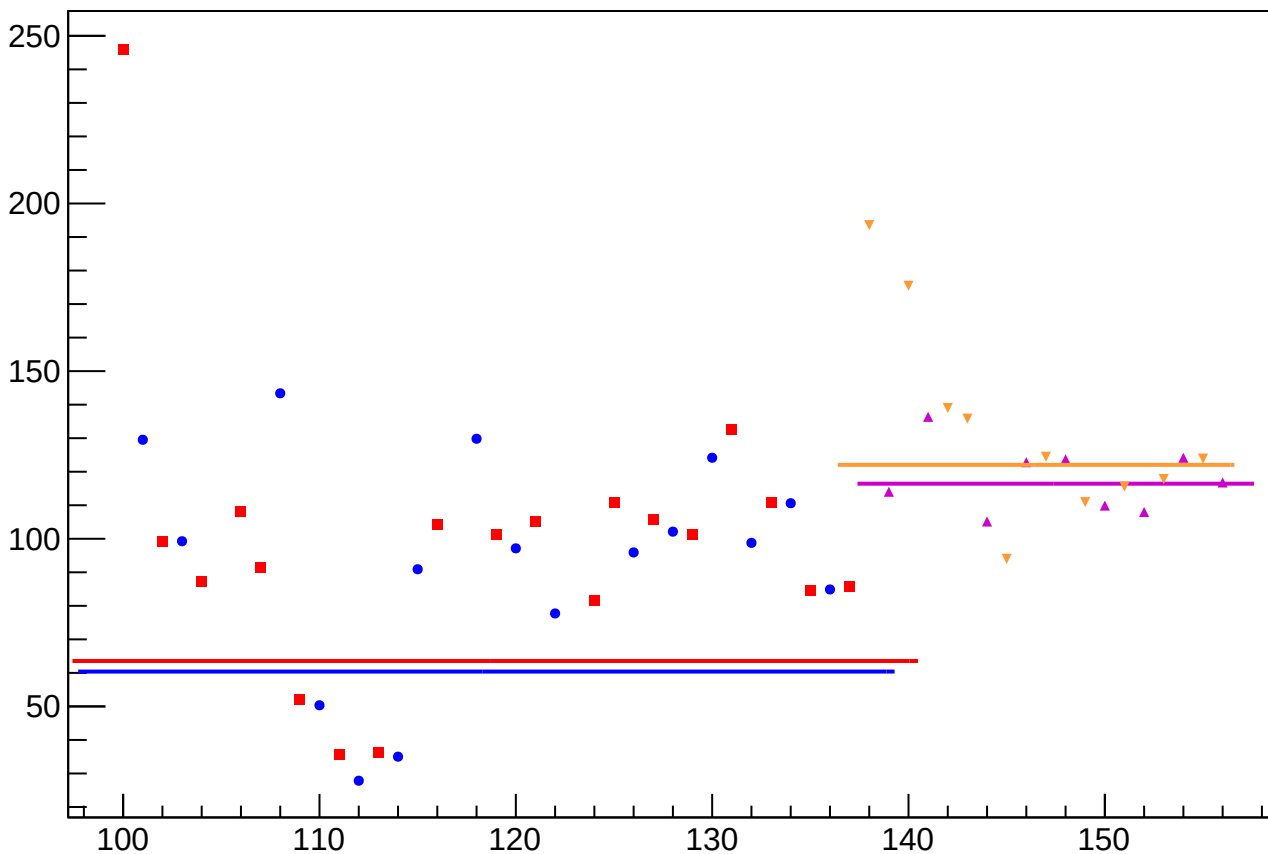
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.067 ± 0.023 $\chi^2/\text{NDF}: 28.9/24$

Out: -0.004 ± 0.023 $\chi^2/\text{NDF}: 30.3/28$

All: 0.031 ± 0.016 $\chi^2/\text{NDF}: 64.0/53$

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: 122.051+/-0.032 χ^2/NDF : 526371.3/9

Right Out: 63.551+/-0.019 χ^2/NDF : 2654786.8/18

Left In: 116.430+/-0.030 χ^2/NDF : 89626.2/8

Left: 119.086+/-0.022 χ^2/NDF : 632391.1/18

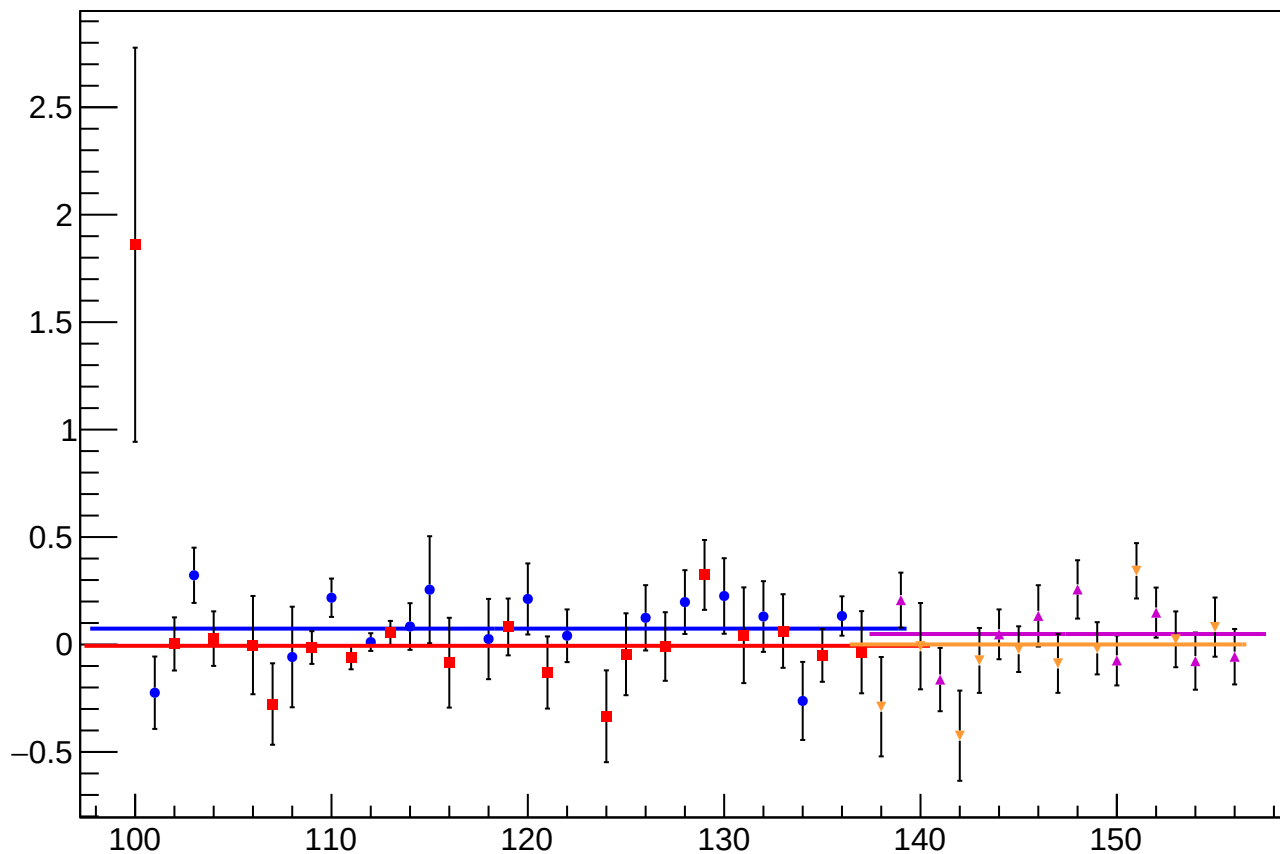
Right: 61.985+/-0.013 χ^2/NDF : 6206876.3/34

In: 76.421+/-0.016 χ^2/NDF : 6088766.7/24

Out: 78.847+/-0.016 χ^2/NDF : 5667233.6/28

All: 77.621+/-0.011 χ^2/NDF : 11767184.8/53

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: 0.000 ± 0.045 $\chi^2/\text{NDF}: 13.8/9$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.049 ± 0.043 $\chi^2/\text{NDF}: 9.7/8$

Left: 0.026 ± 0.031 $\chi^2/\text{NDF}: 24.1/18$

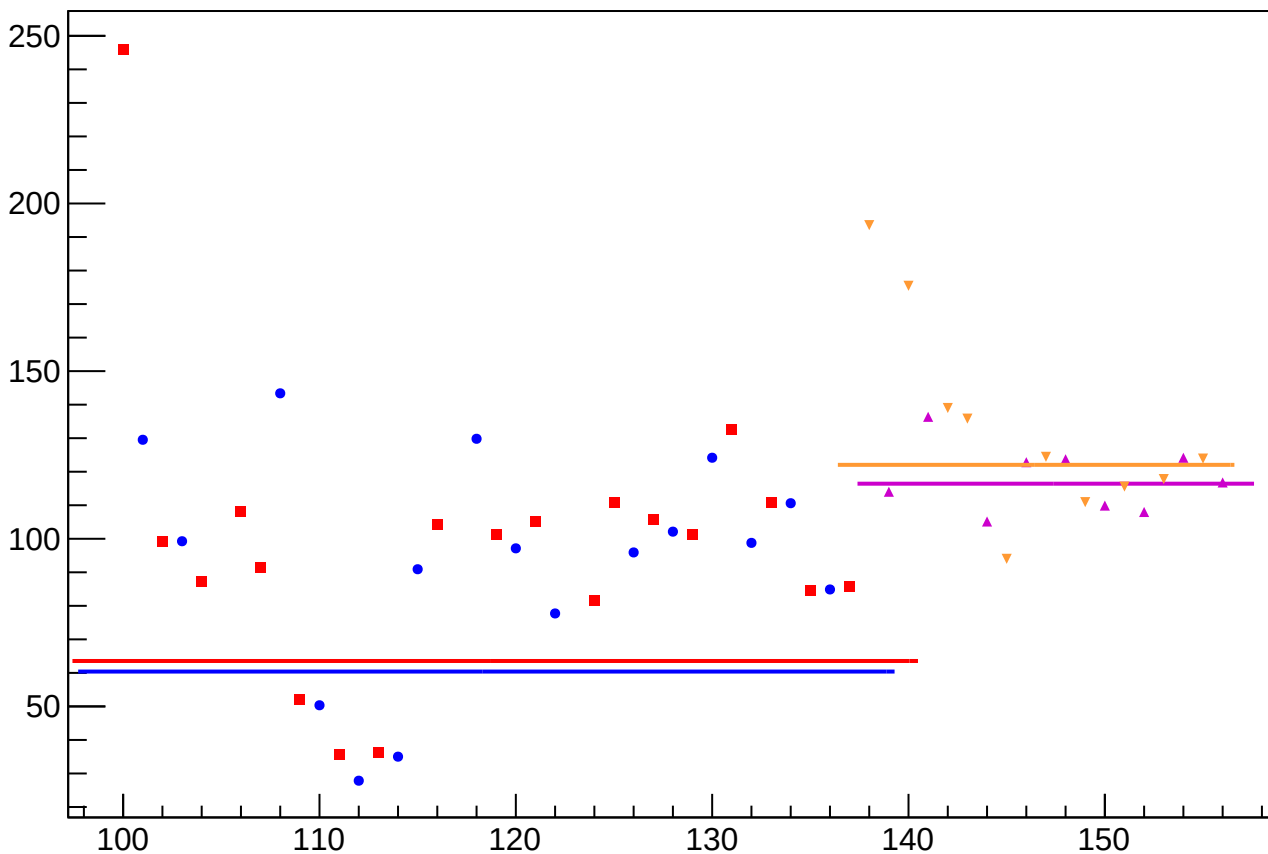
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.067 ± 0.023 $\chi^2/\text{NDF}: 28.9/24$

Out: -0.004 ± 0.023 $\chi^2/\text{NDF}: 30.3/28$

All: 0.031 ± 0.016 $\chi^2/\text{NDF}: 64.0/53$

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.019 χ^2/NDF : 3538382.9/15

Left Out: 122.051+/-0.032 χ^2/NDF : 526371.3/9

Right Out: 63.551+/-0.019 χ^2/NDF : 2654786.8/18

Left In: 116.430+/-0.030 χ^2/NDF : 89626.2/8

Left: 119.086+/-0.022 χ^2/NDF : 632391.1/18

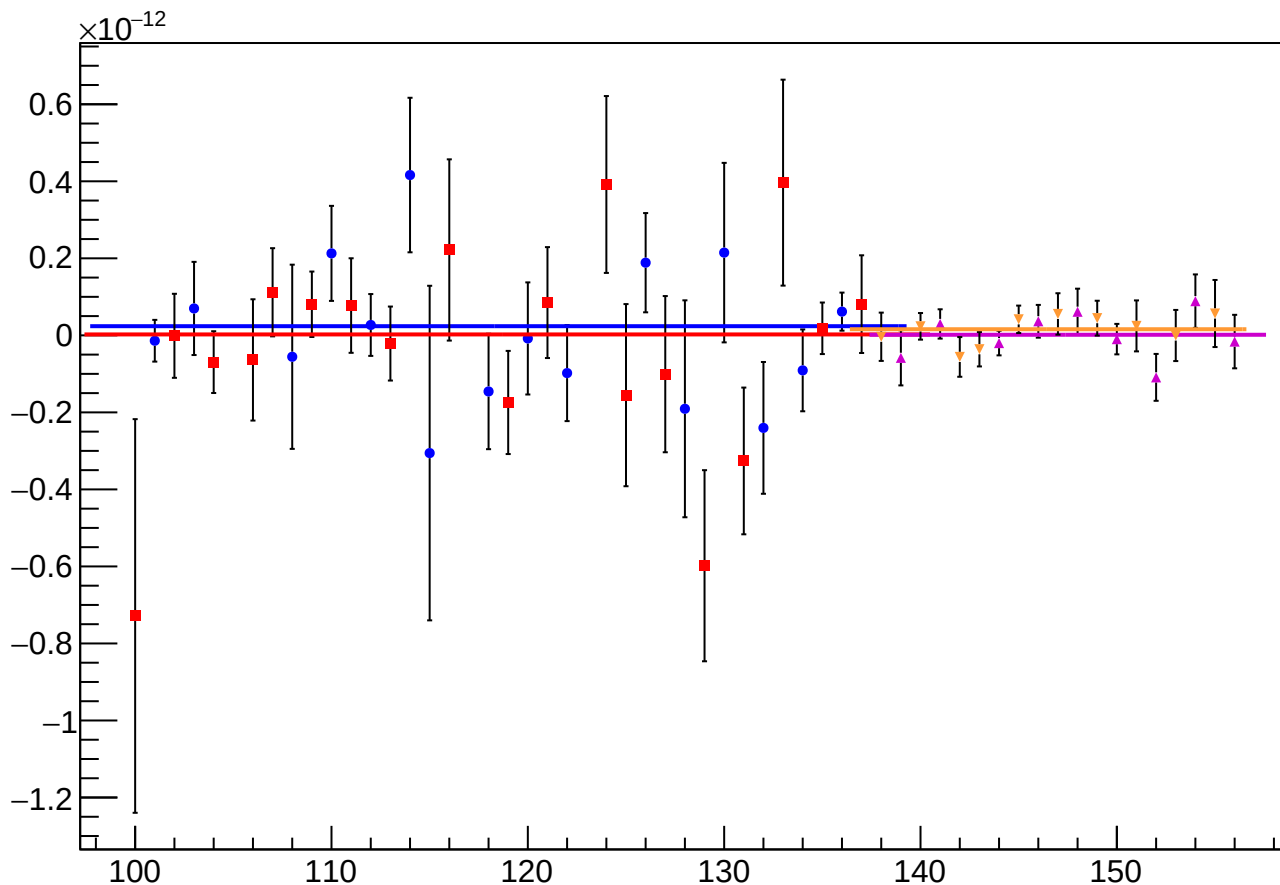
Right: 61.985+/-0.013 χ^2/NDF : 6206876.3/34

In: 76.421+/-0.016 χ^2/NDF : 6088766.7/24

Out: 78.847+/-0.016 χ^2/NDF : 5667233.6/28

All: 77.621+/-0.011 χ^2/NDF : 11767184.8/53

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 : 5.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.4/8

Left: 0.000+/-0.000 χ^2/NDF : 14.0/18

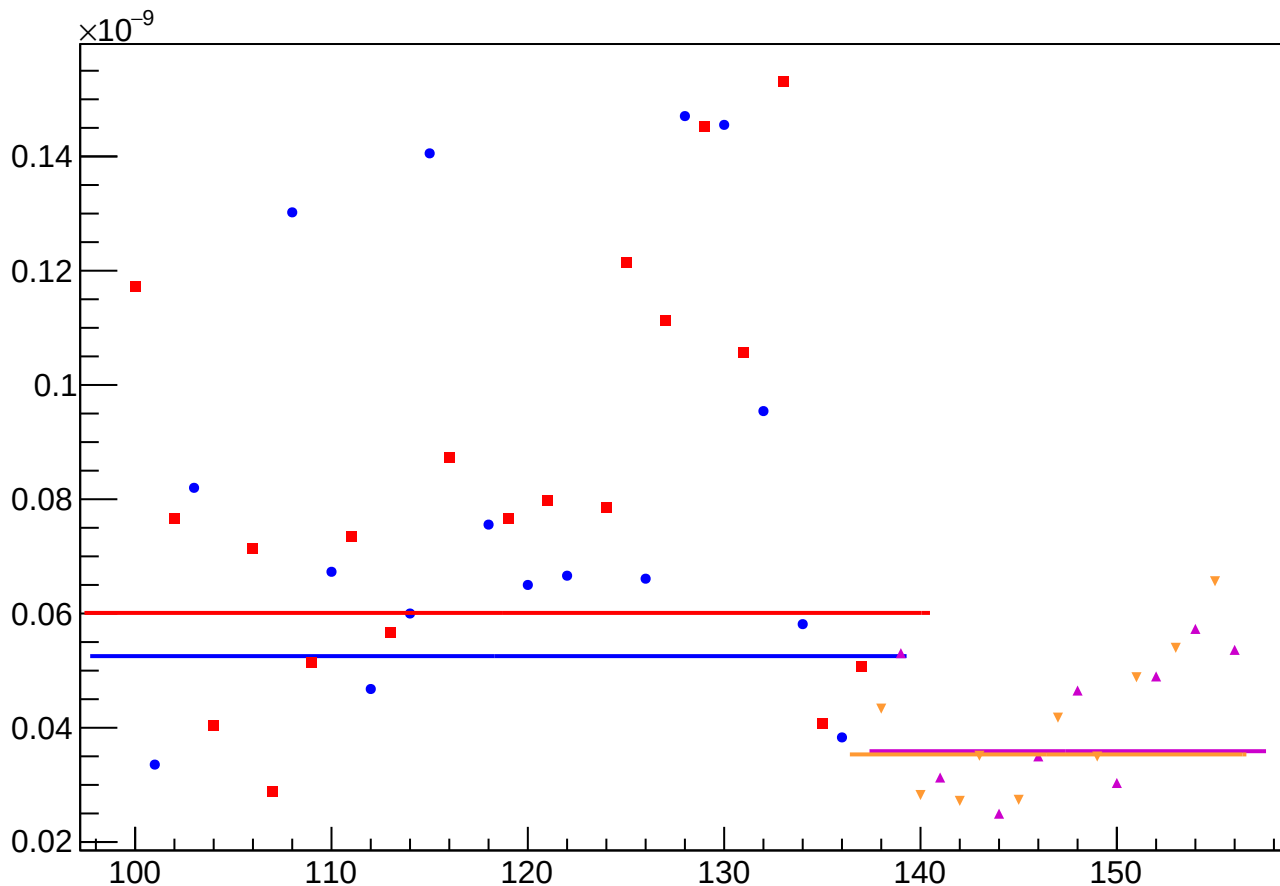
Right: 0.000+/-0.000 χ^2/NDF : 40.3/34

In: 0.000+/-0.000 χ^2/NDF : 25.7/24

Out: 0.000+/-0.000 χ^2/NDF : 28.6/28

All: 0.000+/-0.000 χ^2/NDF : 54.4/53

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 : 778995.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1539049.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 895211.2/8

Left: 0.000+/-0.000 χ^2/NDF : 1675507.4/18

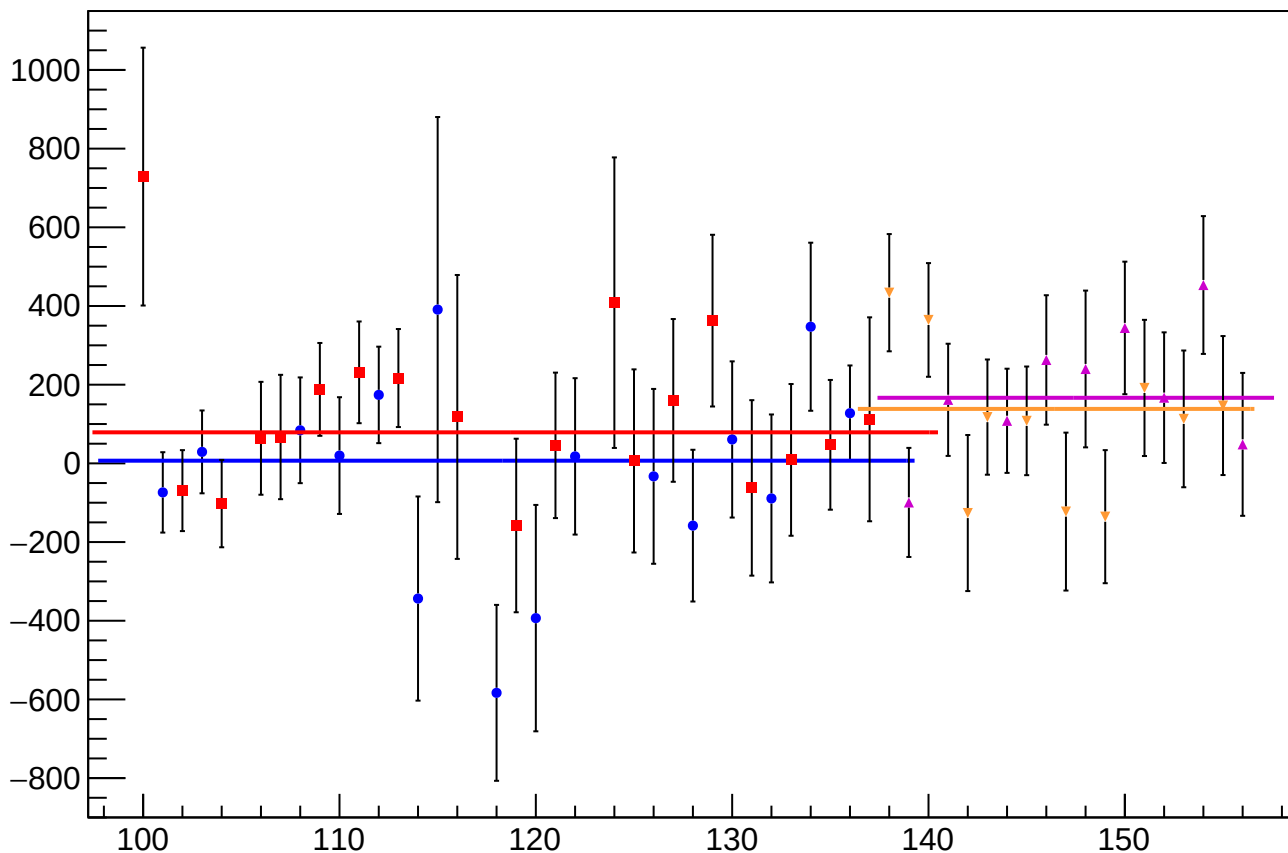
Right: 0.000+/-0.000 χ^2/NDF : 3263531.1/34

In: 0.000+/-0.000 χ^2/NDF : 3136925.6/24

Out: 0.000+/-0.000 χ^2/NDF : 3461853.9/28

All: 0.000+/-0.000 χ^2/NDF : 6600335.4/53

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.811 ± 40.353 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 138.444 ± 51.587 $\chi^2/\text{NDF}: 12.7/9$

Right Out: 78.883 ± 37.906 $\chi^2/\text{NDF}: 16.7/18$

Left In: 166.674 ± 53.086 $\chi^2/\text{NDF}: 8.6/8$

Left: 152.155 ± 36.996 $\chi^2/\text{NDF}: 21.4/18$

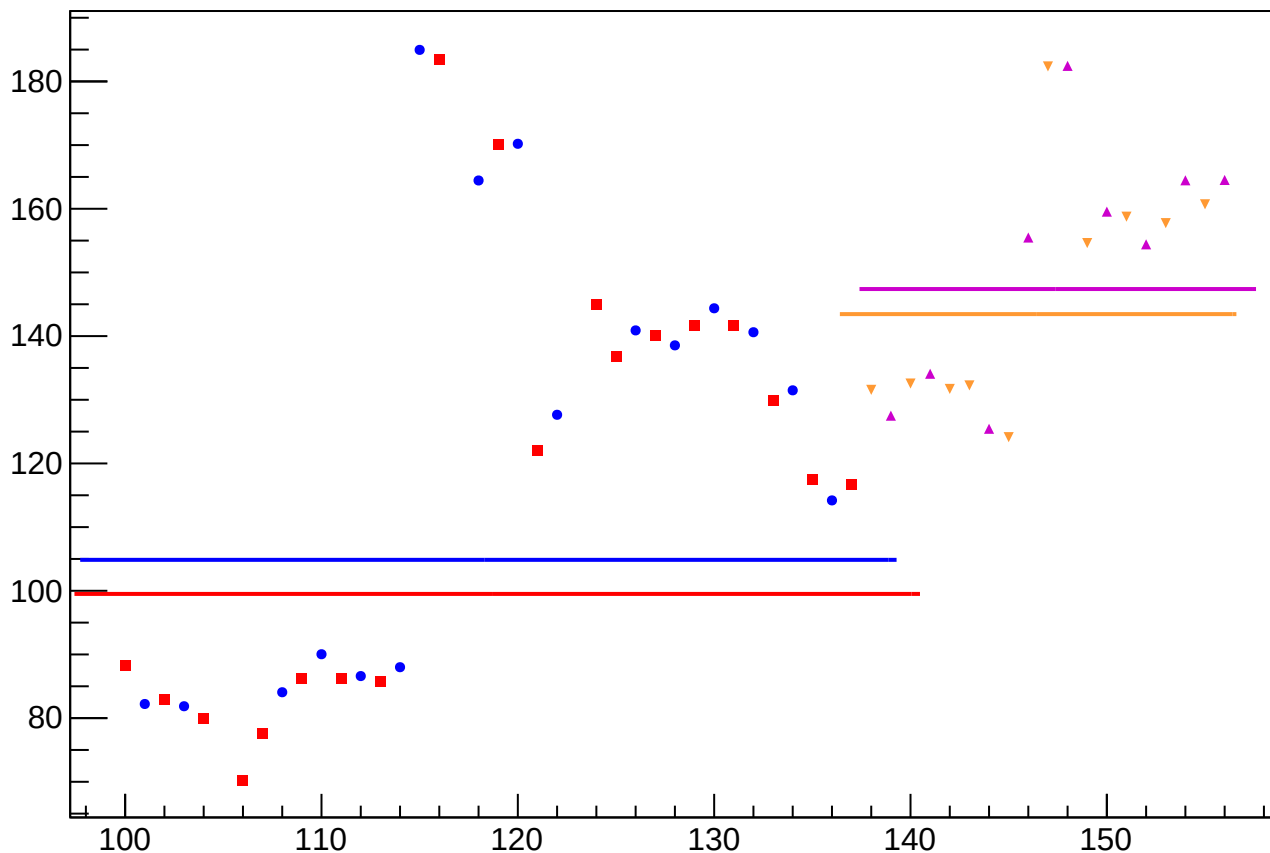
Right: 45.098 ± 27.628 $\chi^2/\text{NDF}: 37.2/34$

In: 65.354 ± 32.125 $\chi^2/\text{NDF}: 33.1/24$

Out: 99.766 ± 30.546 $\chi^2/\text{NDF}: 30.2/28$

All: 83.427 ± 22.137 $\chi^2/\text{NDF}: 63.9/53$

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2 /NDF: 931228.4/15

Left Out: 143.455 $\pm$ 0.036 χ^2 /NDF:214096.2/9

Right Out: 99.508 $\pm$ 0.027 χ^2 /NDF: 1039037.0/18

Left In: 147.393 $\pm$ 0.038 χ^2 /NDF:231062.6/8

Left: 145.368 $\pm$ 0.026 χ^2 /NDF: 450820.5/18

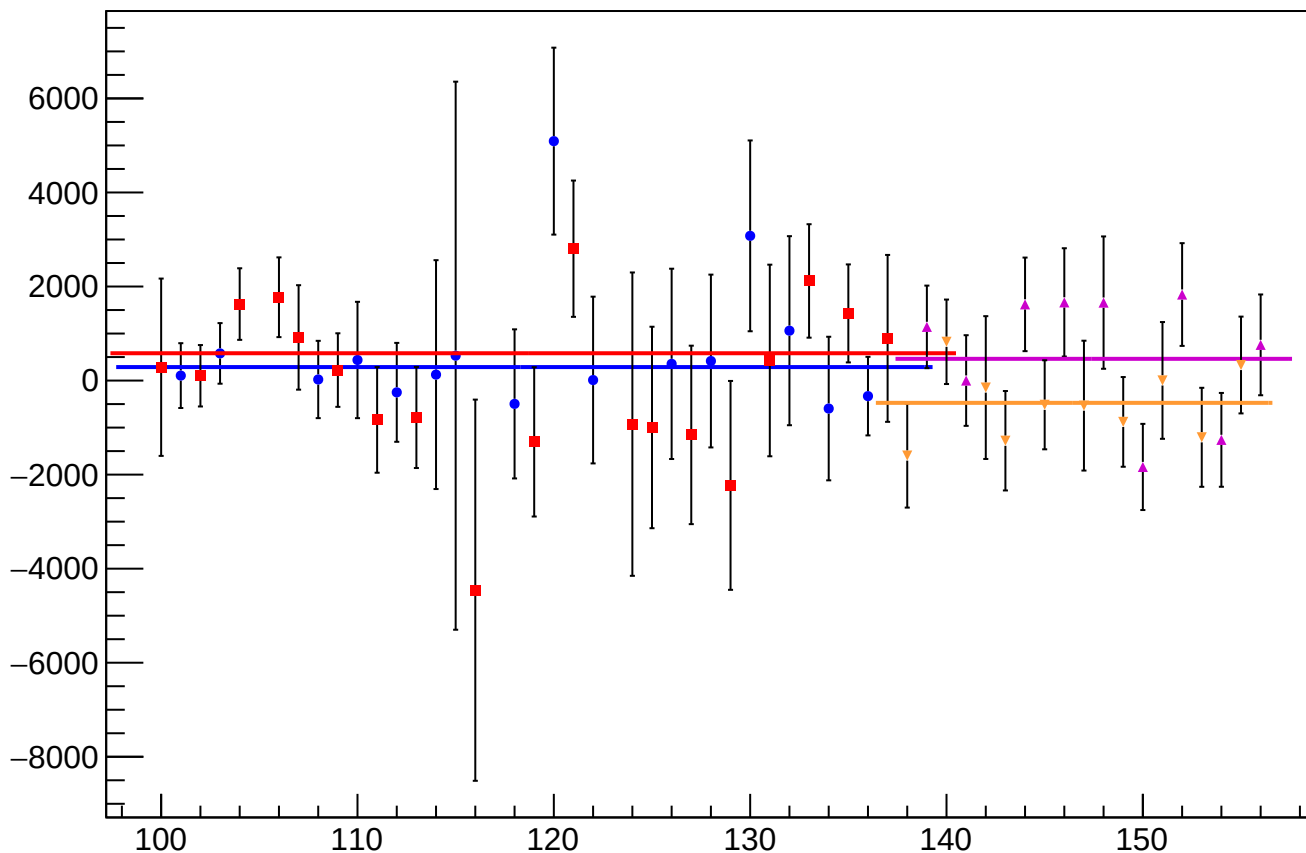
Right: 102.017 $\pm$ 0.020 χ^2 /NDF: 1988955.2/34

In: 120.436 $\pm$ 0.023 χ^2 /NDF:1976007.6/24

Out: 114.916 $\pm$ 0.022 χ^2 /NDF:2195702.8/28

All: 117.537 $\pm$ 0.016 χ^2 /NDF: 4202717.2/53

asym_sam5_reg_correction_mean vs Slug, Sign Corrected



Right In: 286.915+/-293.474 χ^2/NDF : 9.7/15

Left Out: -473.831+/-340.633 χ^2/NDF : 5.2/9

Right Out: 581.217+/-269.775 χ^2/NDF : 18.8/18

Left In: 462.227+/-342.012 χ^2/NDF : 14.9/8

Left: -7.693+/-241.350 χ^2/NDF : 23.8/18

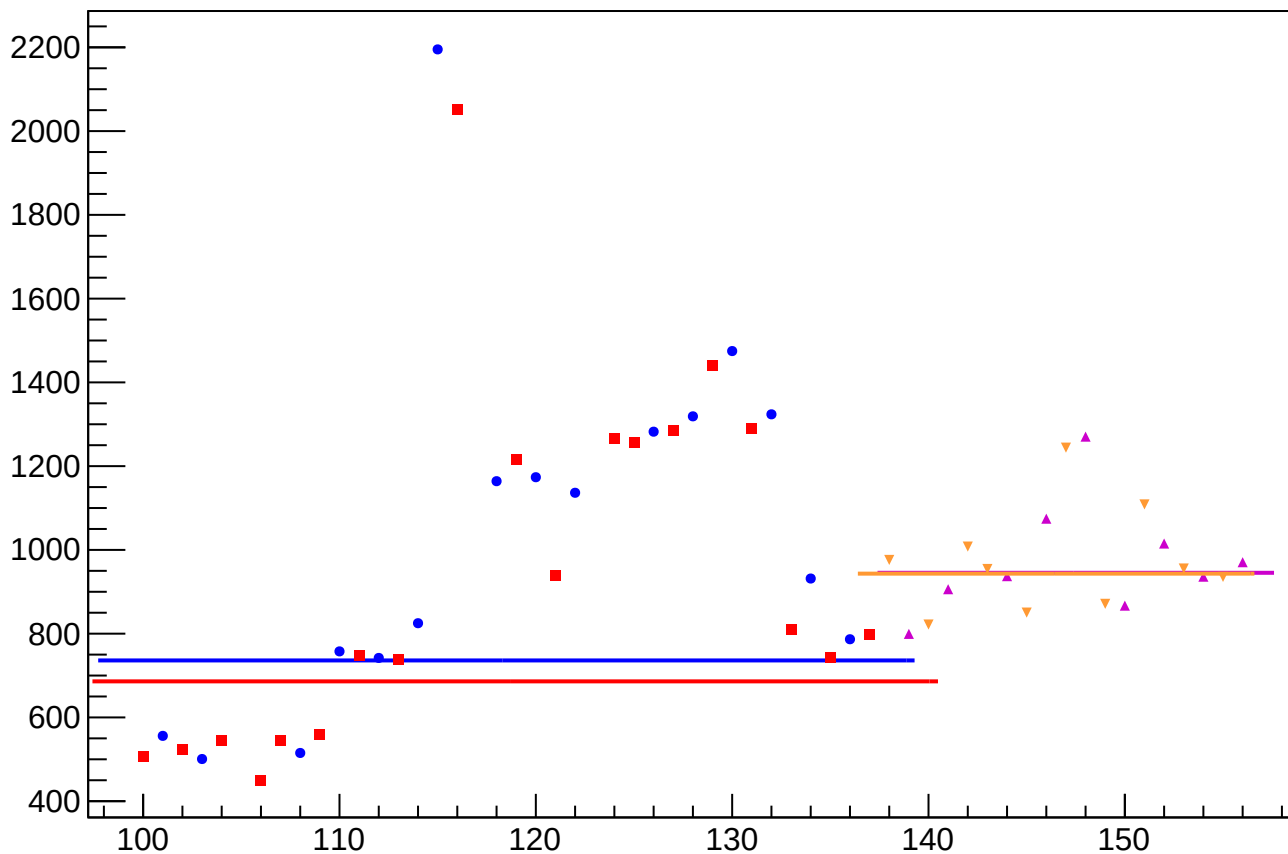
Right: 446.427+/-198.610 χ^2/NDF : 29.0/34

In: 361.258+/-222.719 χ^2/NDF : 24.8/24

Out: 174.538+/-211.484 χ^2/NDF : 29.8/28

All: 263.070+/-153.360 χ^2/NDF : 55.0/53

asym_sam5_reg_correction_rms vs Slug, Sign Corrected



Right In: 736.084+/-0.208 χ^2/NDF : 1844496.2/15

Left Out: 943.322+/-0.241 χ^2/NDF : 203672.9/9

Right Out: 686.108+/-0.191 χ^2/NDF : 1819176.0/18

Left In: 945.338+/-0.242 χ^2/NDF : 214730.6/8

Left: 944.326+/-0.171 χ^2/NDF : 418438.4/18

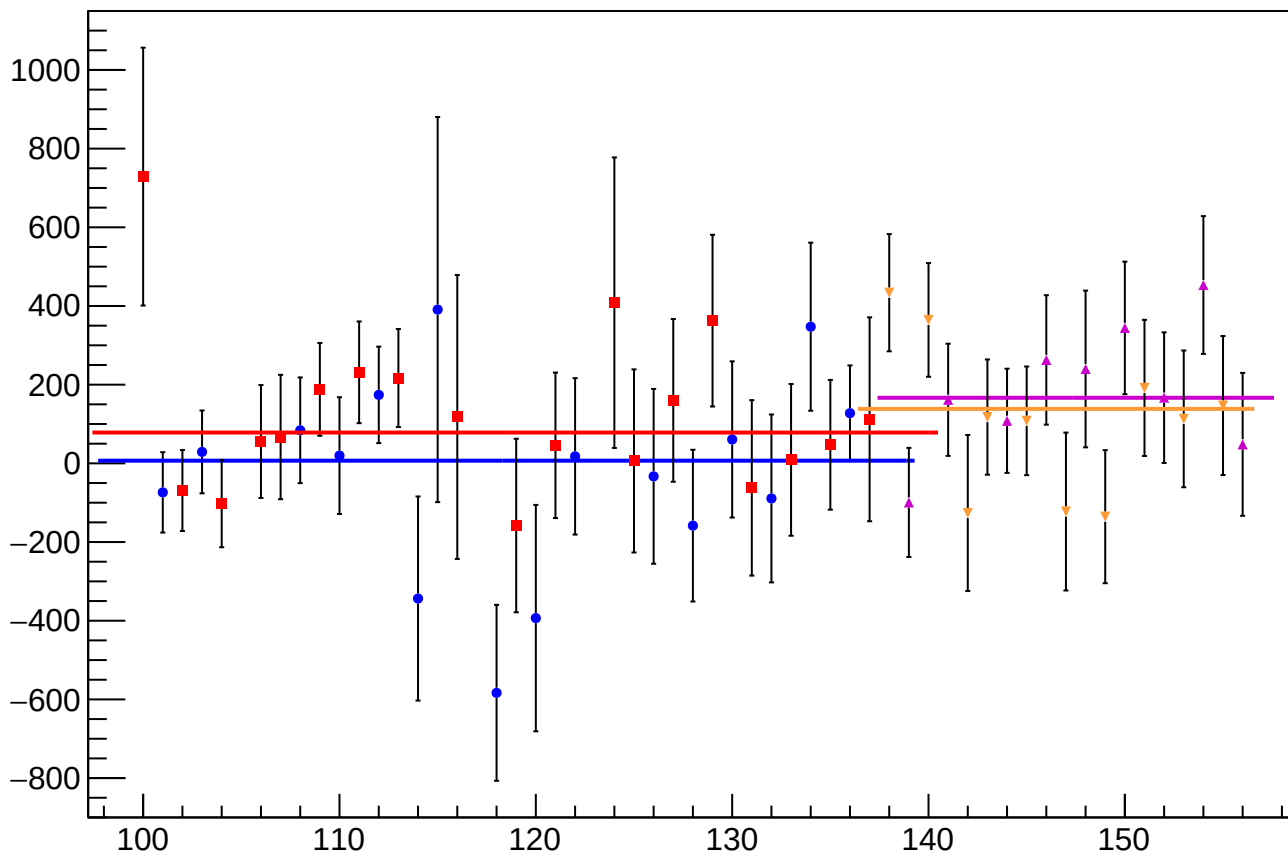
Right: 708.997+/-0.140 χ^2/NDF : 3695106.9/34

In: 824.821+/-0.157 χ^2/NDF : 2490419.2/24

Out: 785.254+/-0.150 χ^2/NDF : 2723648.7/28

All: 804.014+/-0.108 χ^2/NDF : 5247261.5/53

cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799 $\pm$ 40.353 χ^2 /NDF: 18.8/15

Left Out: 138.447 $\pm$ 51.587 χ^2 /NDF:12.7/9

Right Out: 78.347 $\pm$ 37.909 χ^2 /NDF: 16.7/18

Left In: 166.674 $\pm$ 53.086 χ^2 /NDF:8.6/8

Left: 152.156 $\pm$ 36.996 χ^2 /NDF: 21.4/18

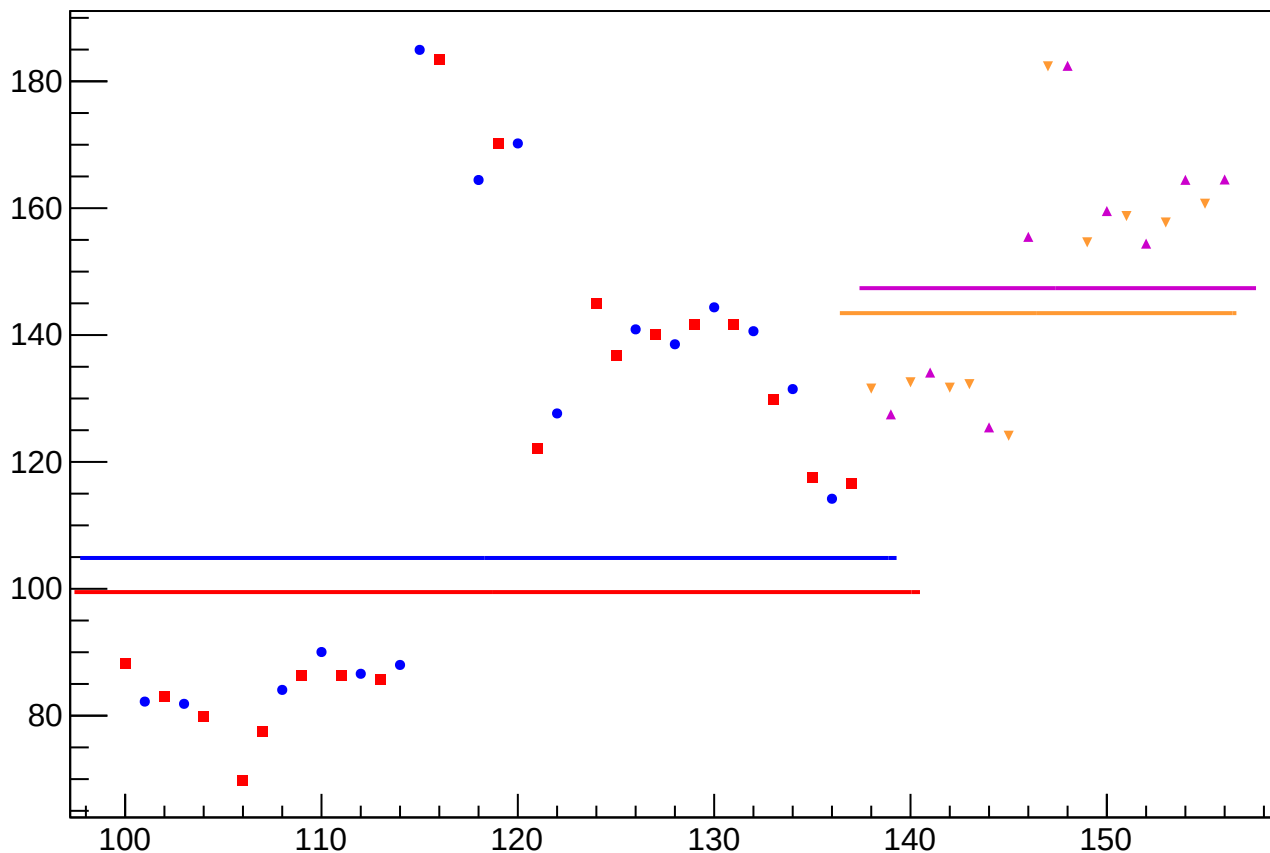
Right: 44.806 $\pm$ 27.629 χ^2 /NDF: 37.1/34

In: 65.347 $\pm$ 32.125 χ^2 /NDF:33.1/24

Out: 99.421 $\pm$ 30.548 χ^2 /NDF:30.2/28

All: 83.241 $\pm$ 22.137 χ^2 /NDF: 63.9/53

cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2/NDF : 931227.7/15

Left Out: 143.455 $\pm$ 0.036 χ^2/NDF : 214096.2/9

Right Out: 99.484 $\pm$ 0.027 χ^2/NDF : 1041224.0/18

Left In: 147.393 $\pm$ 0.038 χ^2/NDF : 231062.6/8

Left: 145.368 $\pm$ 0.026 χ^2/NDF : 450820.5/18

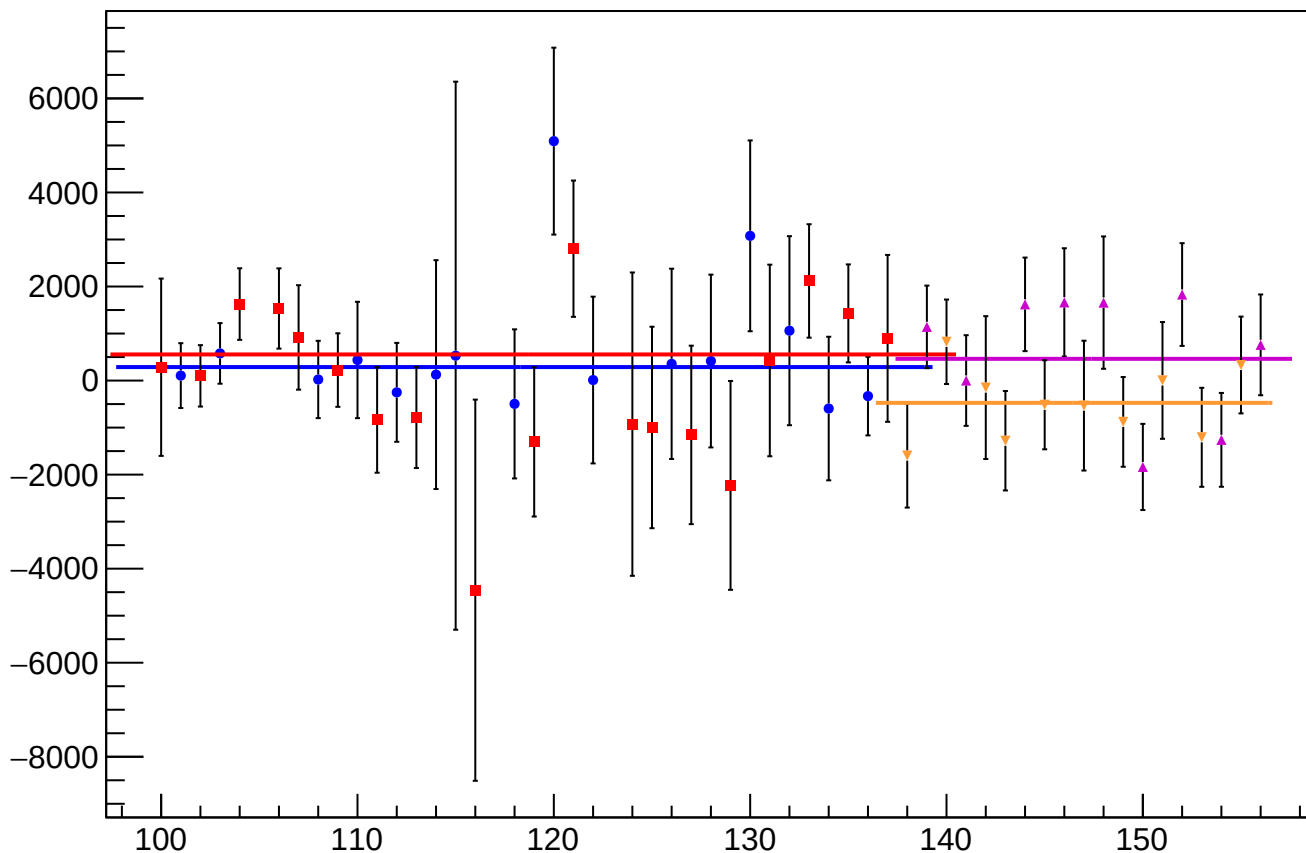
Right: 102.004 $\pm$ 0.020 χ^2/NDF : 1991307.5/34

In: 120.436 $\pm$ 0.023 χ^2/NDF : 1976006.3/24

Out: 114.902 $\pm$ 0.022 χ^2/NDF : 2198867.7/28

All: 117.530 $\pm$ 0.016 χ^2/NDF : 4206038.1/53

asym_sam5_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918 $\pm$ 293.473 χ^2 /NDF: 9.7/15

Left Out: -473.826 $\pm$ 340.633 χ^2 /NDF:5.2/9

Right Out: 555.436 $\pm$ 269.953 χ^2 /NDF: 18.0/18

Left In: 462.221 $\pm$ 342.012 χ^2 /NDF:14.9/8

Left: -7.693 $\pm$ 241.350 χ^2 /NDF: 23.8/18

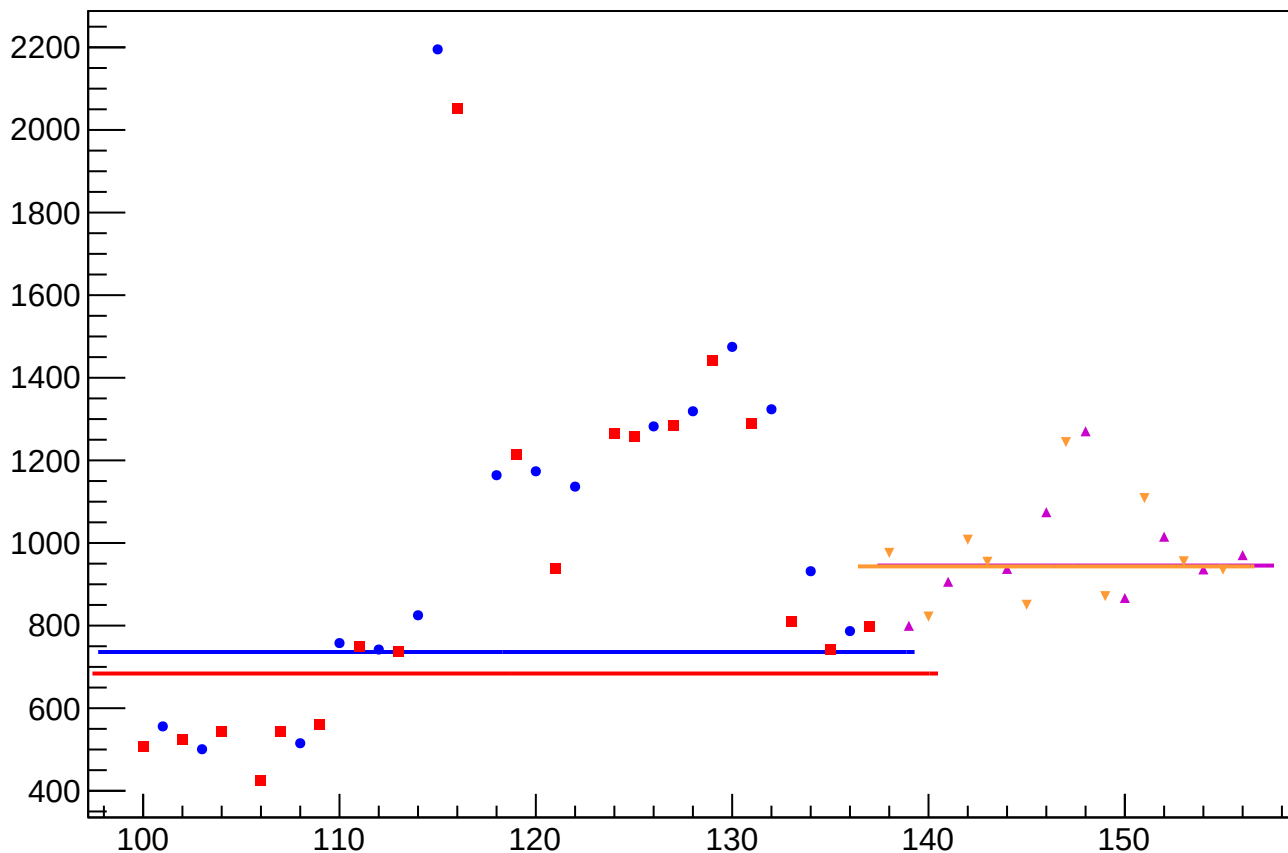
Right: 432.367 $\pm$ 198.681 χ^2 /NDF: 28.2/34

In: 361.257 $\pm$ 222.719 χ^2 /NDF:24.8/24

Out: 158.374 $\pm$ 211.569 χ^2 /NDF:28.8/28

All: 254.611 $\pm$ 153.392 χ^2 /NDF: 54.0/53

asym_sam5_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083+/-0.208 χ^2/NDF : 1844498.2/15

Left Out: 943.322+/-0.241 χ^2/NDF : 203672.4/9

Right Out: 683.981+/-0.191 χ^2/NDF : 1850402.3/18

Left In: 945.338+/-0.242 χ^2/NDF : 214730.6/8

Left: 944.326+/-0.171 χ^2/NDF : 418437.9/18

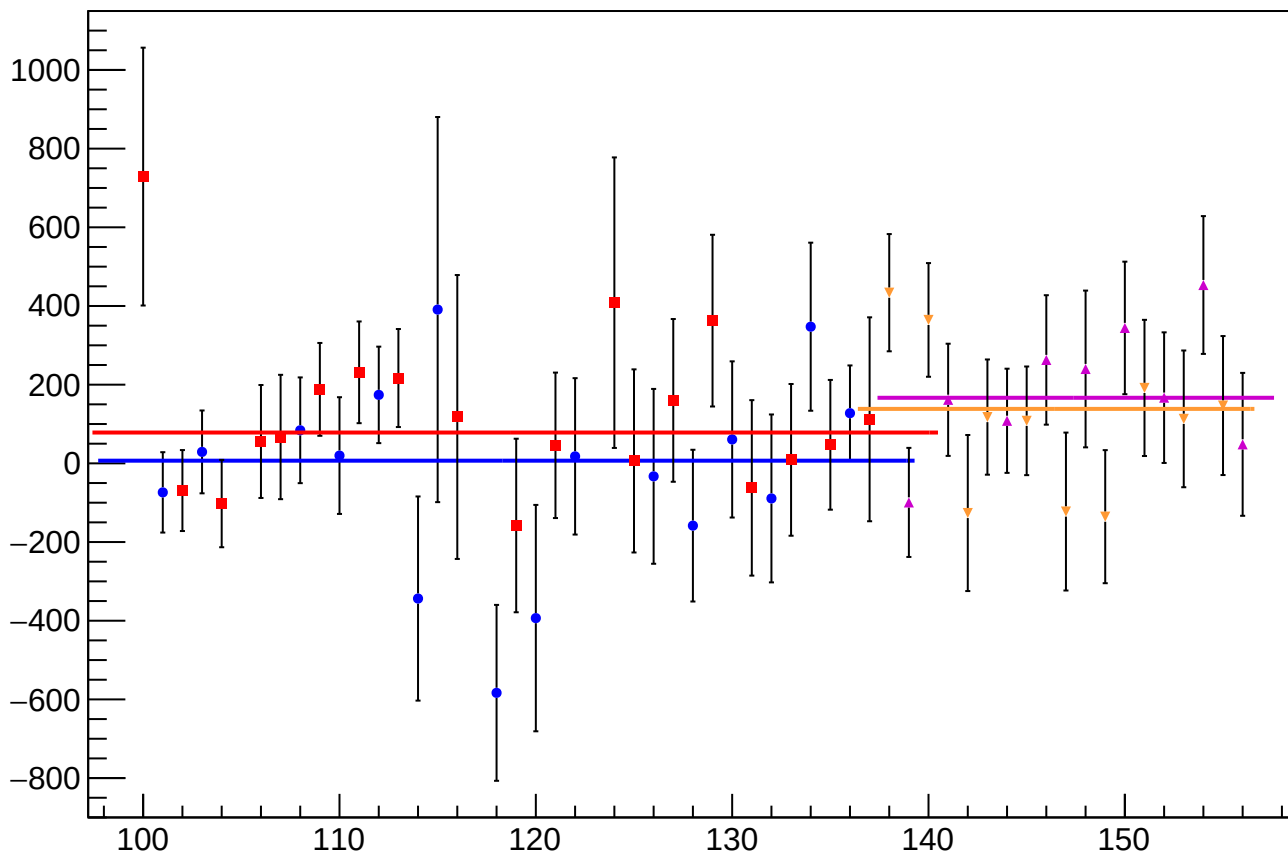
Right: 707.861+/-0.140 χ^2/NDF : 3729047.2/34

In: 824.820+/-0.157 χ^2/NDF : 2490423.6/24

Out: 784.028+/-0.150 χ^2/NDF : 2766154.2/28

All: 803.377+/-0.108 χ^2/NDF : 5291846.4/53

eigen_cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799+/-40.353 χ^2/NDF : 18.8/15

Left Out: 138.447+/-51.587 χ^2/NDF :12.7/9

Right Out: 78.347+/-37.909 χ^2/NDF : 16.7/18

Left In: 166.674+/-53.086 χ^2/NDF :8.6/8

Left: 152.156+/-36.996 χ^2/NDF : 21.4/18

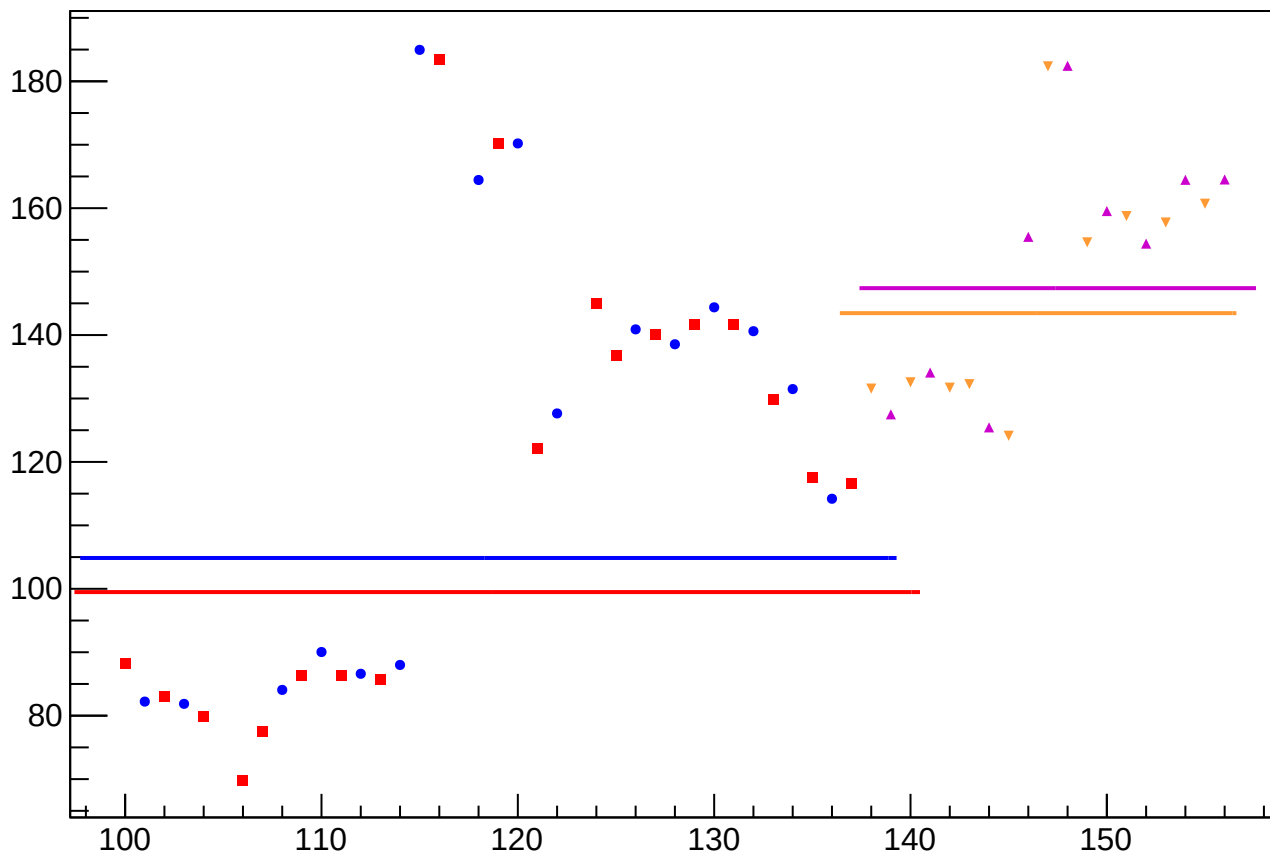
Right: 44.806+/-27.629 χ^2/NDF : 37.1/34

In: 65.347+/-32.125 χ^2/NDF :33.1/24

Out: 99.421+/-30.548 χ^2/NDF :30.2/28

All: 83.241+/-22.137 χ^2/NDF : 63.9/53

eigen_cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860+/-0.029 χ^2/NDF : 931227.7/15

Left Out: 143.455+/-0.036 χ^2/NDF : 214096.2/9

Right Out: 99.484+/-0.027 χ^2/NDF : 1041224.0/18

Left In: 147.393+/-0.038 χ^2/NDF : 231062.6/8

Left: 145.368+/-0.026 χ^2/NDF : 450820.5/18

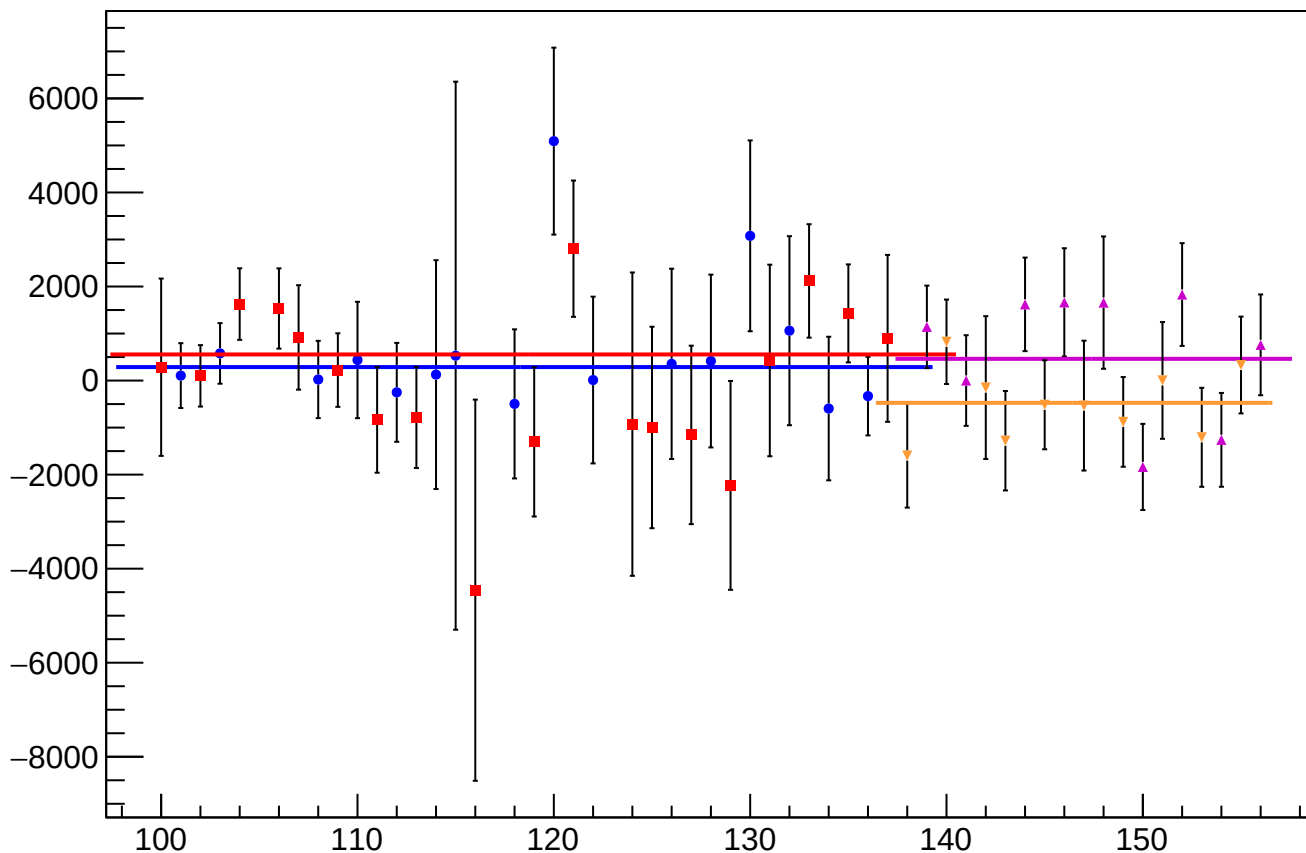
Right: 102.004+/-0.020 χ^2/NDF : 1991307.5/34

In: 120.436+/-0.023 χ^2/NDF : 1976006.3/24

Out: 114.902+/-0.022 χ^2/NDF : 2198867.7/28

All: 117.530+/-0.016 χ^2/NDF : 4206038.1/53

asym_sam5_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918 $\pm$ 293.473 χ^2 /NDF: 9.7/15

Left Out: -473.826 $\pm$ 340.633 χ^2 /NDF:5.2/9

Right Out: 555.436 $\pm$ 269.953 χ^2 /NDF: 18.0/18

Left In: 462.221 $\pm$ 342.012 χ^2 /NDF:14.9/8

Left: -7.693 $\pm$ 241.350 χ^2 /NDF: 23.8/18

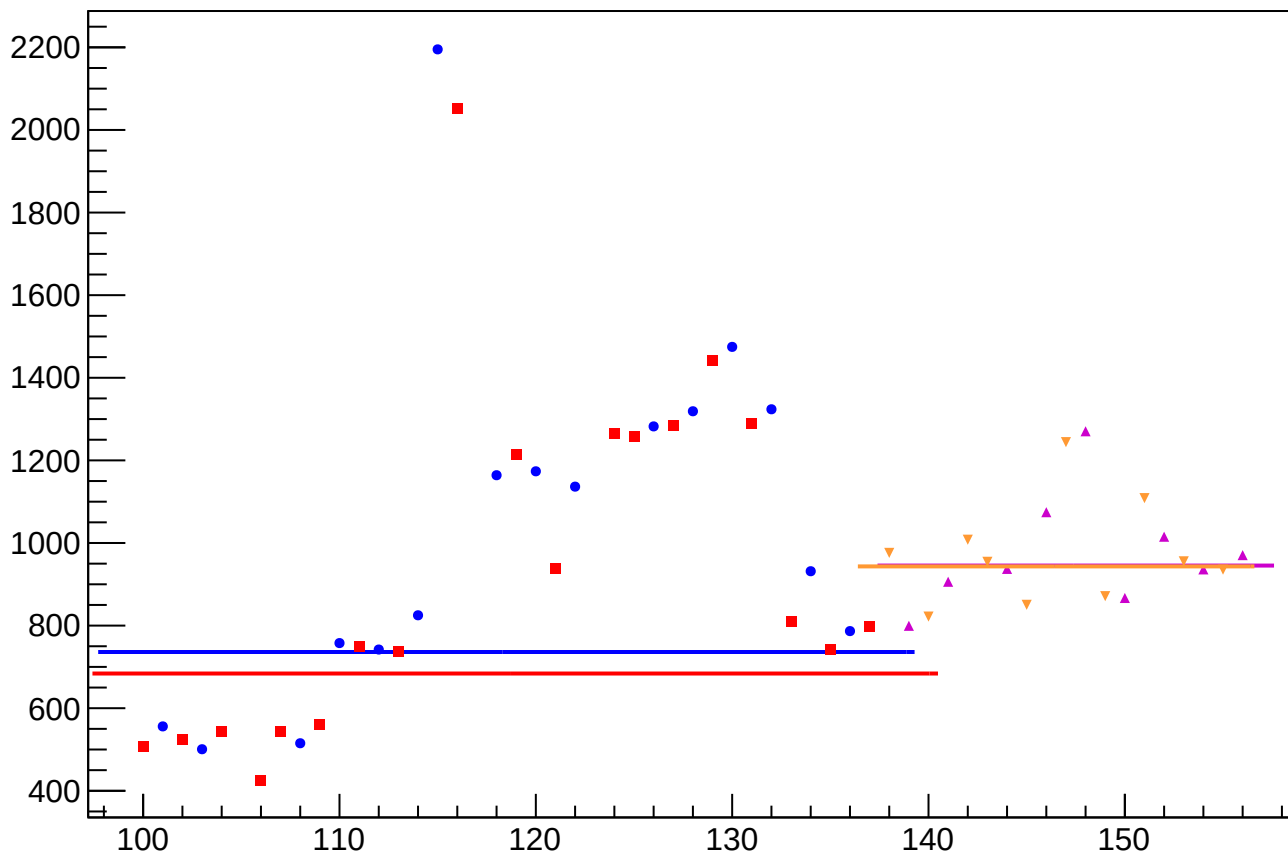
Right: 432.367 $\pm$ 198.681 χ^2 /NDF: 28.2/34

In: 361.257 $\pm$ 222.719 χ^2 /NDF:24.8/24

Out: 158.374 $\pm$ 211.569 χ^2 /NDF:28.8/28

All: 254.611 $\pm$ 153.392 χ^2 /NDF: 54.0/53

asym_sam5_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083 $\pm$ 0.208 χ^2 /NDF: 1844498.2/15

Left Out: 943.322 $\pm$ 0.241 χ^2 /NDF: 203672.4/9

Right Out: 683.981 $\pm$ 0.191 χ^2 /NDF: 1850402.3/18

Left In: 945.338 $\pm$ 0.242 χ^2 /NDF: 214730.6/8

Left: 944.326 $\pm$ 0.171 χ^2 /NDF: 418437.9/18

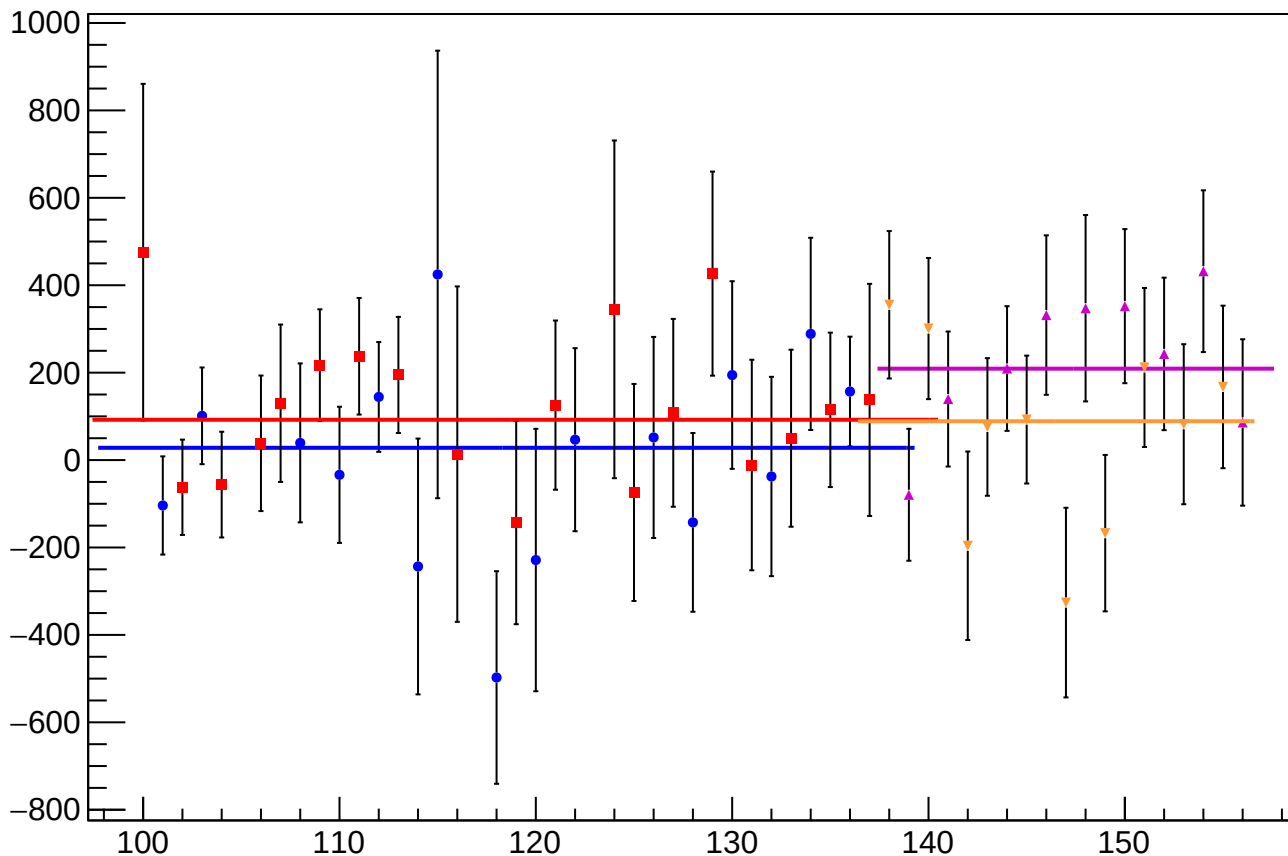
Right: 707.861 $\pm$ 0.140 χ^2 /NDF: 3729047.2/34

In: 824.820 $\pm$ 0.157 χ^2 /NDF: 2490423.6/24

Out: 784.028 $\pm$ 0.150 χ^2 /NDF: 2766154.2/28

All: 803.377 $\pm$ 0.108 χ^2 /NDF: 5291846.4/53

dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.094 $\pm$ 43.439 χ^2/NDF : 13.6/15

Left Out: 88.847 $\pm$ 55.596 χ^2/NDF :12.3/9

Right Out: 92.247 $\pm$ 40.539 χ^2/NDF : 11.7/18

Left In: 209.122 $\pm$ 56.902 χ^2/NDF :7.3/8

Left: 147.588 $\pm$ 39.766 χ^2/NDF : 21.9/18

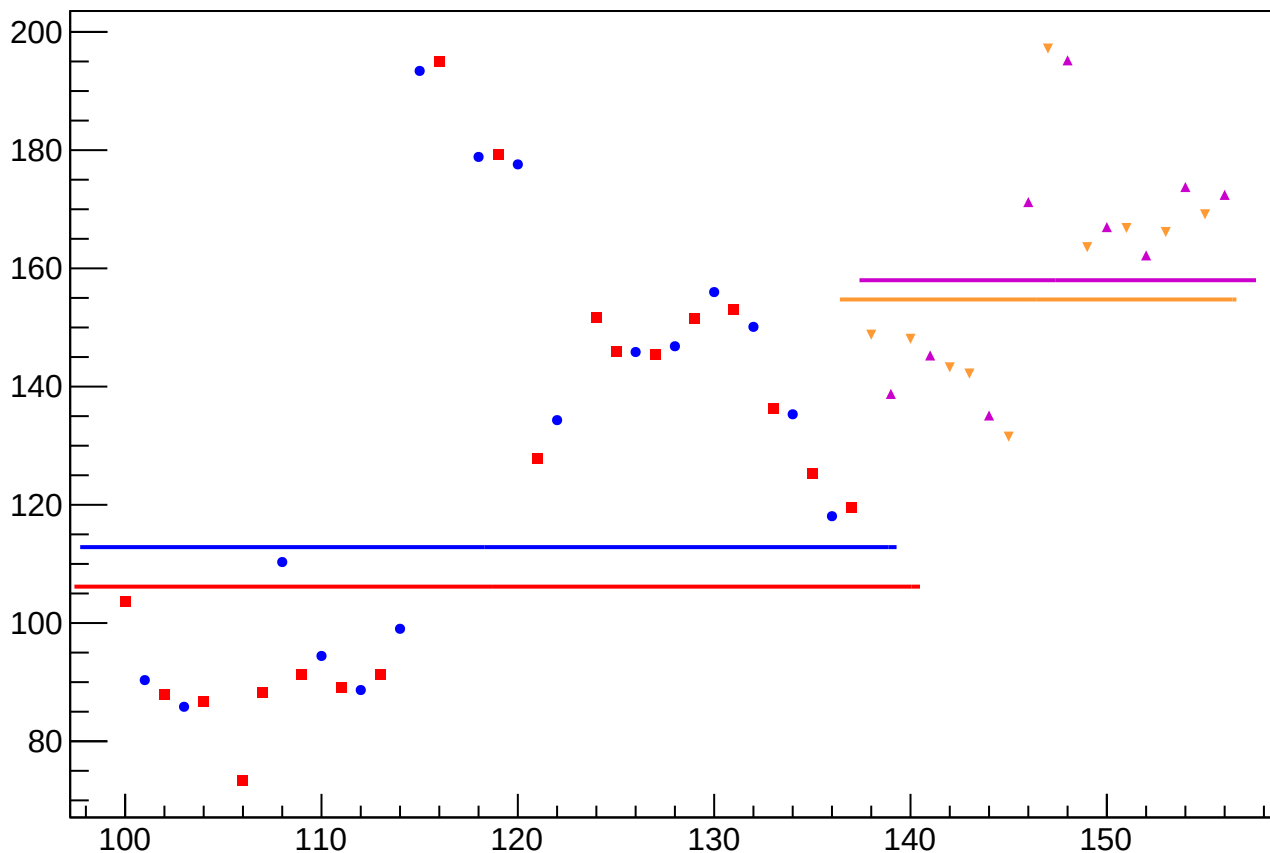
Right: 62.383 $\pm$ 29.638 χ^2/NDF : 26.4/34

In: 94.748 $\pm$ 34.528 χ^2/NDF :27.2/24

Out: 91.067 $\pm$ 32.756 χ^2/NDF :24.0/28

All: 92.810 $\pm$ 23.764 χ^2/NDF : 51.3/53

dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.843 $\pm$ 0.031 χ^2 /NDF: 872225.9/15

Left Out: 154.735 $\pm$ 0.039 χ^2 /NDF:184647.6/9

Right Out: 106.159 $\pm$ 0.029 χ^2 /NDF: 1002148.0/18

Left In: 157.994 $\pm$ 0.040 χ^2 /NDF:201284.0/8

Left: 156.327 $\pm$ 0.028 χ^2 /NDF: 389287.5/18

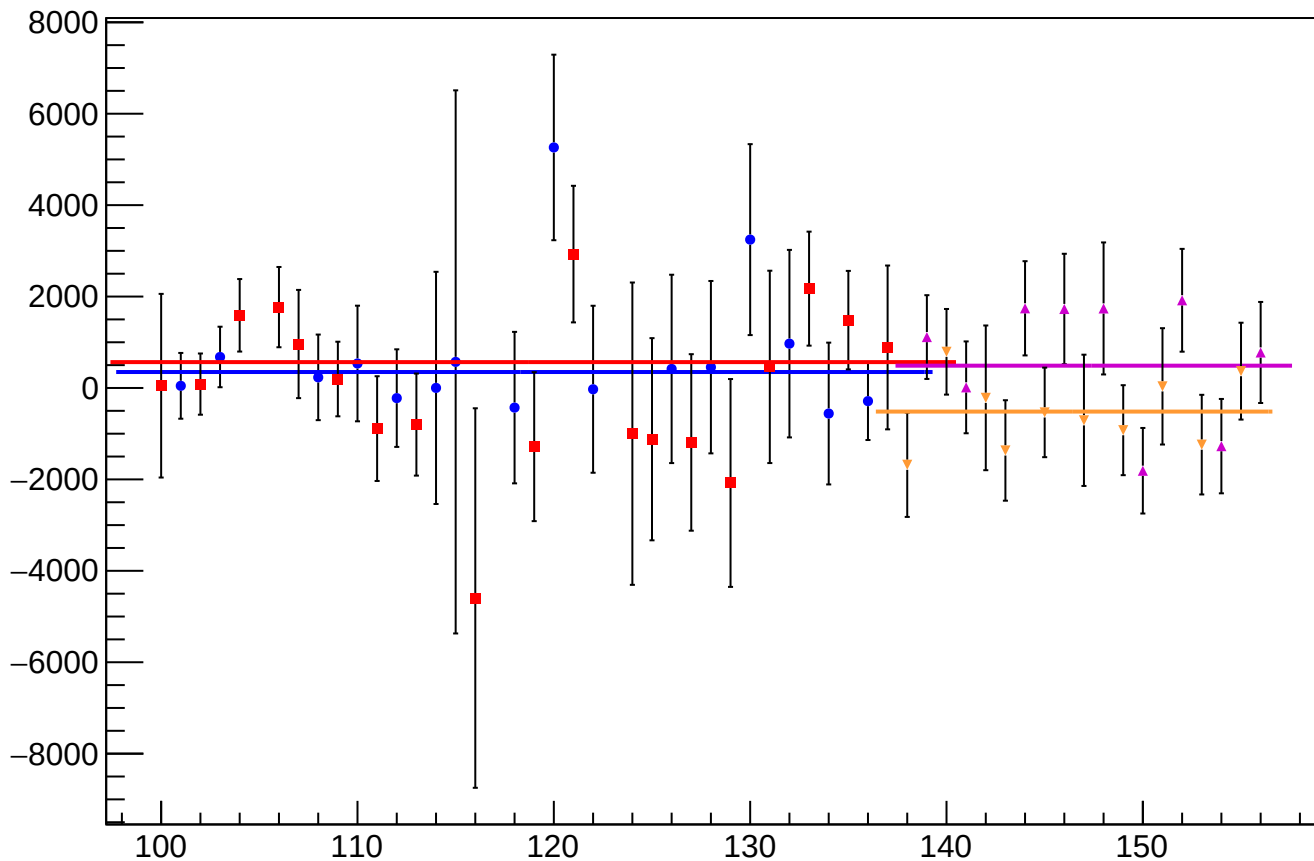
Right: 109.270 $\pm$ 0.021 χ^2 /NDF: 1899683.8/34

In: 129.467 $\pm$ 0.024 χ^2 /NDF:1869114.5/24

Out: 123.021 $\pm$ 0.023 χ^2 /NDF:2183654.4/28

All: 126.074 $\pm$ 0.017 χ^2 /NDF: 4089460.0/53

asym_sam5_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.112 ± 305.328 $\chi^2/\text{NDF}: 9.8/15$

Left Out: -516.288 ± 352.583 $\chi^2/\text{NDF}: 5.1/9$

Right Out: 566.026 ± 279.219 $\chi^2/\text{NDF}: 18.3/18$

Left In: 487.896 ± 354.062 $\chi^2/\text{NDF}: 14.6/8$

Left: -16.297 ± 249.835 $\chi^2/\text{NDF}: 23.8/18$

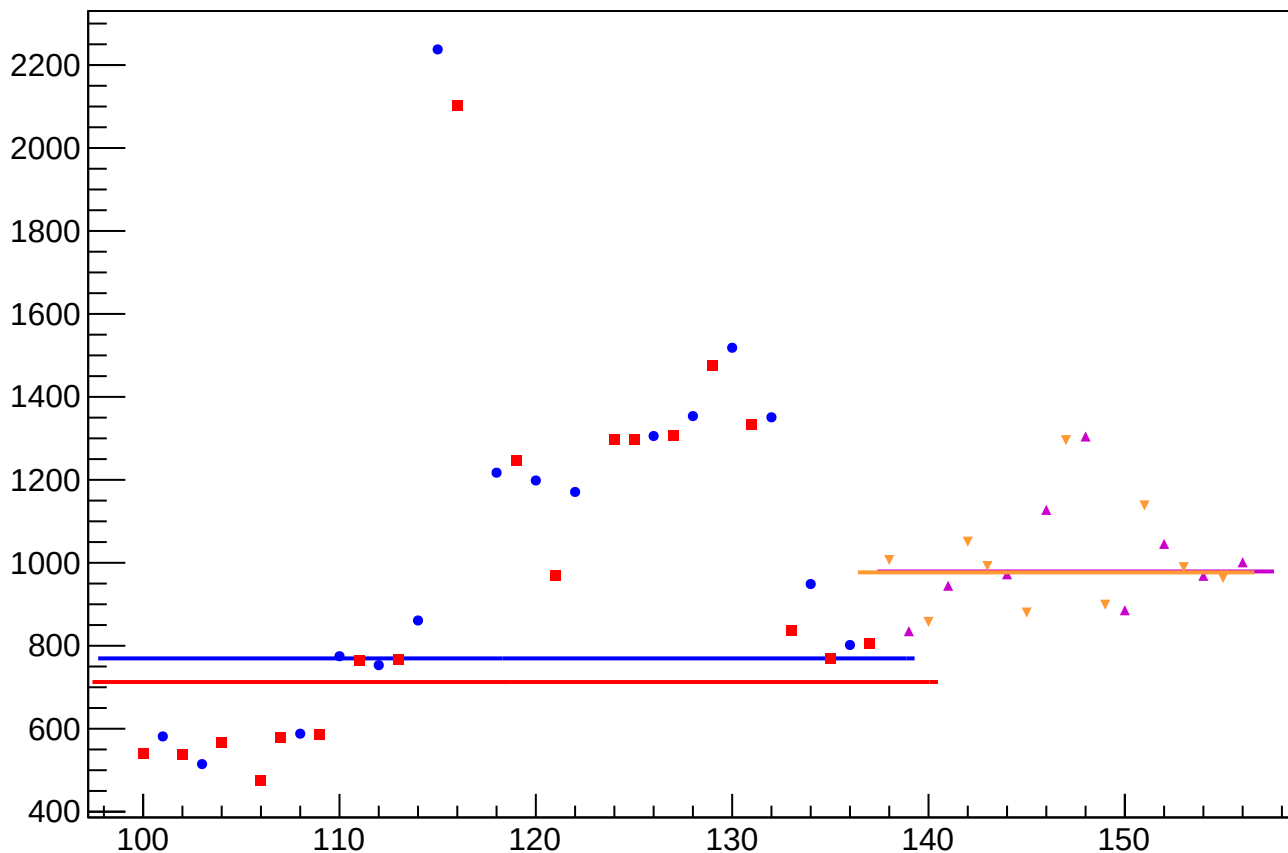
Right: 467.239 ± 206.051 $\chi^2/\text{NDF}: 28.4/34$

In: 408.303 ± 231.225 $\chi^2/\text{NDF}: 24.5/24$

Out: 148.875 ± 218.893 $\chi^2/\text{NDF}: 29.2/28$

All: 271.486 ± 158.962 $\chi^2/\text{NDF}: 54.4/53$

asym_sam5_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.557 $\pm$ 0.216 χ^2 /NDF: 1739937.3/15

Left Out: 976.916 $\pm$ 0.249 χ^2 /NDF: 202024.1/9

Right Out: 712.628 $\pm$ 0.197 χ^2 /NDF: 1767226.6/18

Left In: 979.150 $\pm$ 0.250 χ^2 /NDF: 211556.7/8

Left: 978.028 $\pm$ 0.177 χ^2 /NDF: 413620.8/18

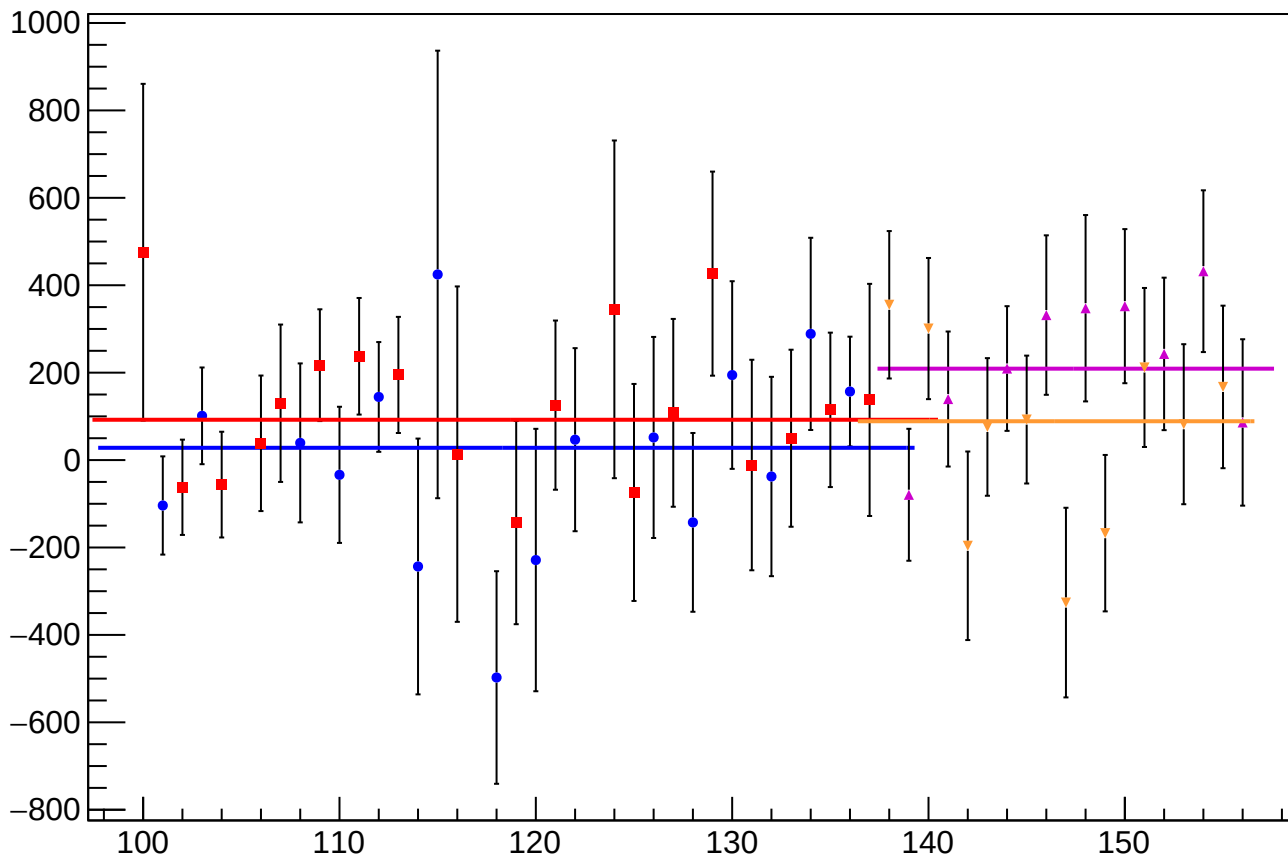
Right: 738.555 $\pm$ 0.146 χ^2 /NDF: 3545027.5/34

In: 858.947 $\pm$ 0.164 χ^2 /NDF: 2353434.5/24

Out: 814.492 $\pm$ 0.155 χ^2 /NDF: 2659864.7/28

All: 835.502 $\pm$ 0.112 χ^2 /NDF: 5052287.8/53

eigen_dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.093+/-43.439 χ^2/NDF : 13.6/15

Left Out: 88.848+/-55.596 χ^2/NDF :12.3/9

Right Out: 92.247+/-40.539 χ^2/NDF : 11.7/18

Left In: 209.123+/-56.903 χ^2/NDF :7.3/8

Left: 147.589+/-39.766 χ^2/NDF : 21.9/18

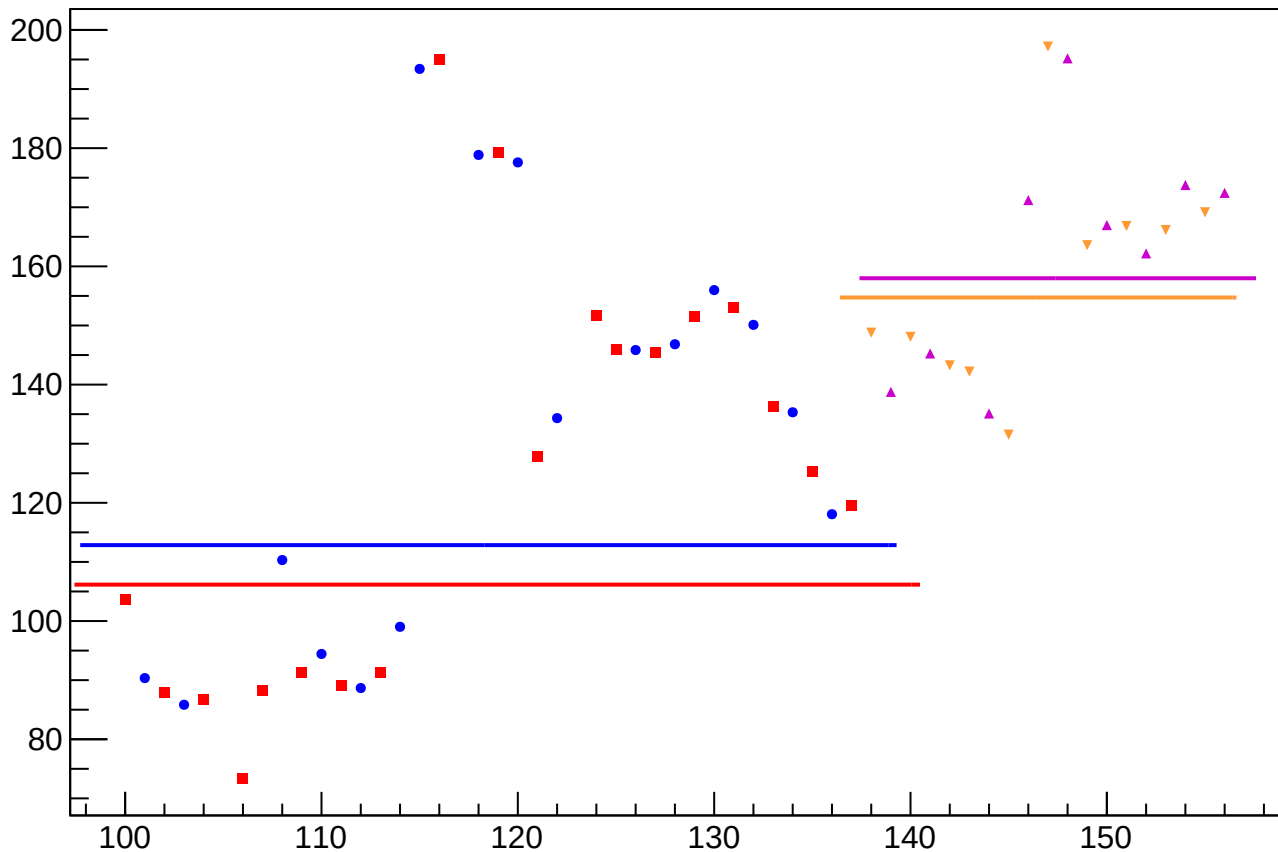
Right: 62.383+/-29.637 χ^2/NDF : 26.4/34

In: 94.747+/-34.528 χ^2/NDF :27.2/24

Out: 91.067+/-32.756 χ^2/NDF :24.0/28

All: 92.810+/-23.764 χ^2/NDF : 51.3/53

eigen_dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.842 $\pm$ 0.031 χ^2/NDF : 872219.7/15

Left Out: 154.736 $\pm$ 0.039 χ^2/NDF :184650.1/9

Right Out: 106.158 $\pm$ 0.029 χ^2/NDF : 1002136.6/18

Left In: 157.995 $\pm$ 0.040 χ^2/NDF :201282.7/8

Left: 156.327 $\pm$ 0.028 χ^2/NDF : 389289.0/18

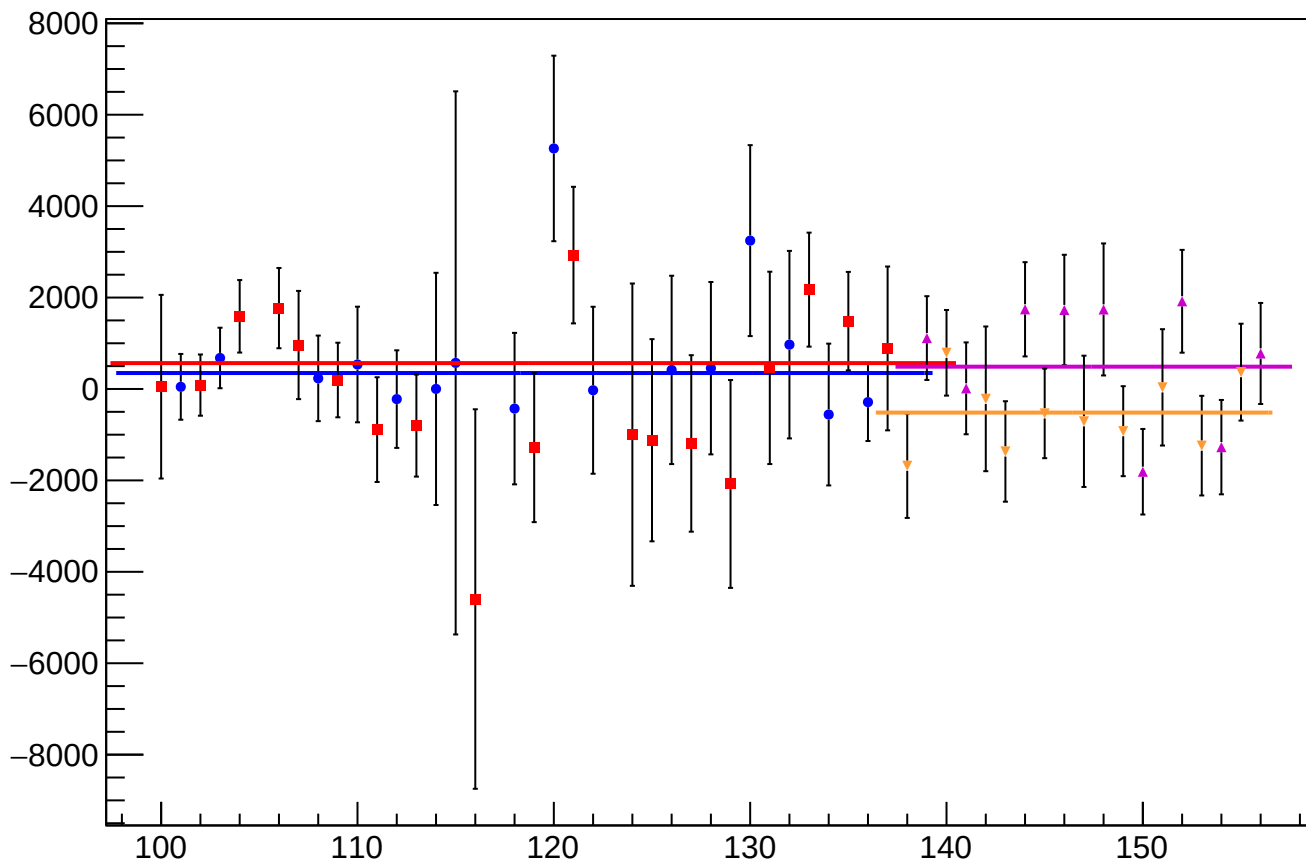
Right: 109.270 $\pm$ 0.021 χ^2/NDF : 1899665.6/34

In: 129.467 $\pm$ 0.024 χ^2/NDF :1869132.6/24

Out: 123.021 $\pm$ 0.023 χ^2/NDF :2183665.4/28

All: 126.074 $\pm$ 0.017 χ^2/NDF : 4089489.0/53

asym_sam5_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.111+/-305.328 χ^2/NDF : 9.8/15

Left Out: -516.288+/-352.584 χ^2/NDF : 5.1/9

Right Out: 566.026+/-279.218 χ^2/NDF : 18.3/18

Left In: 487.899+/-354.063 χ^2/NDF : 14.6/8

Left: -16.296+/-249.836 χ^2/NDF : 23.8/18

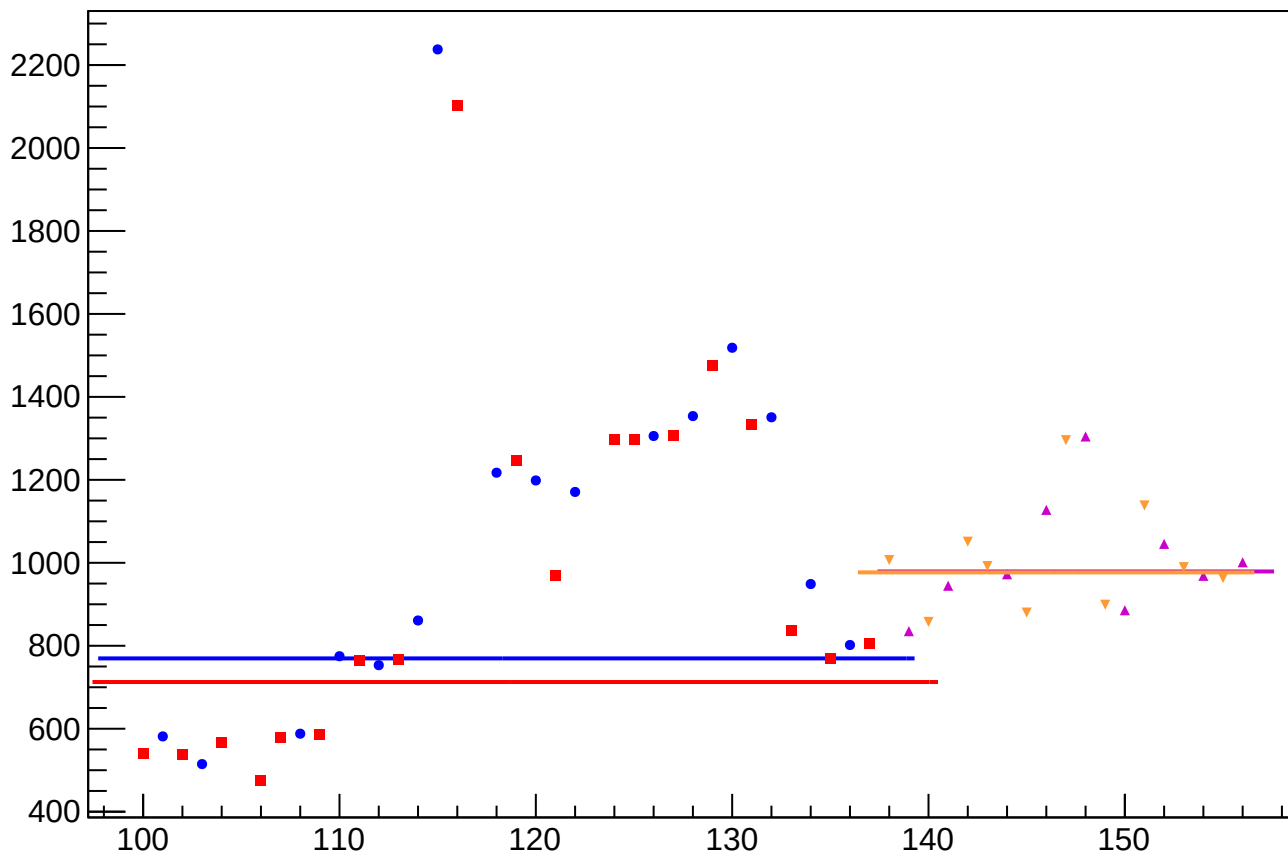
Right: 467.238+/-206.050 χ^2/NDF : 28.4/34

In: 408.303+/-231.225 χ^2/NDF : 24.5/24

Out: 148.877+/-218.893 χ^2/NDF : 29.2/28

All: 271.487+/-158.962 χ^2/NDF : 54.4/53

asym_sam5_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.556 $\pm$ 0.216 χ^2 /NDF: 1739933.9/15

Left Out: 976.918 $\pm$ 0.249 χ^2 /NDF: 202023.8/9

Right Out: 712.627 $\pm$ 0.197 χ^2 /NDF: 1767219.7/18

Left In: 979.152 $\pm$ 0.250 χ^2 /NDF: 211556.4/8

Left: 978.031 $\pm$ 0.177 χ^2 /NDF: 413620.1/18

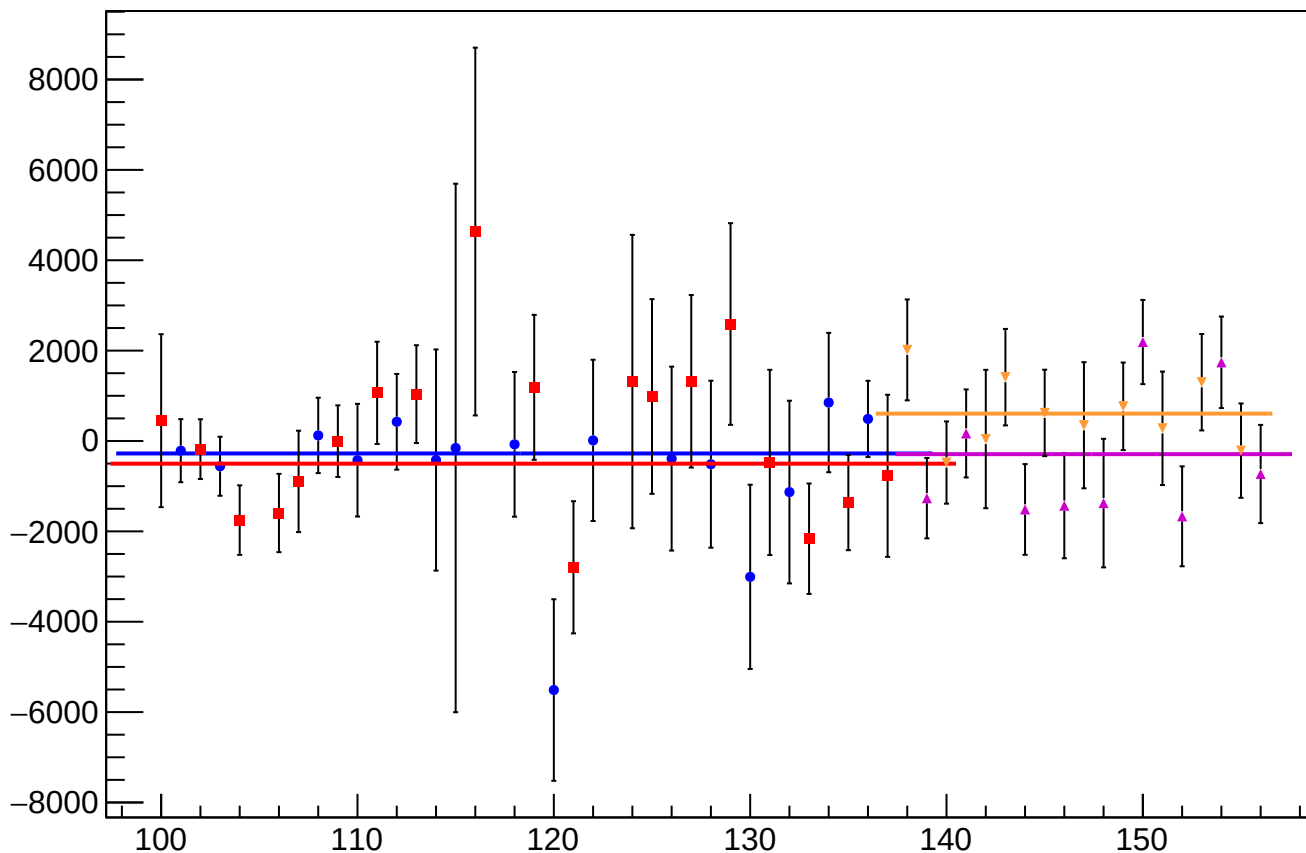
Right: 738.554 $\pm$ 0.146 χ^2 /NDF: 3545017.2/34

In: 858.947 $\pm$ 0.164 χ^2 /NDF: 2353444.1/24

Out: 814.491 $\pm$ 0.155 χ^2 /NDF: 2659873.2/28

All: 835.502 $\pm$ 0.112 χ^2 /NDF: 5052306.4/53

asym_sam5_mean vs Slug, Sign Corrected



Right In: -276.199 ± 296.708 $\chi^2/\text{NDF}: 11.1/15$

Left Out: 606.031 ± 344.767 $\chi^2/\text{NDF}: 4.9/9$

Right Out: -501.985 ± 272.991 $\chi^2/\text{NDF}: 20.5/18$

Left In: -291.165 ± 346.398 $\chi^2/\text{NDF}: 17.3/8$

Left: 159.550 ± 244.361 $\chi^2/\text{NDF}: 25.5/18$

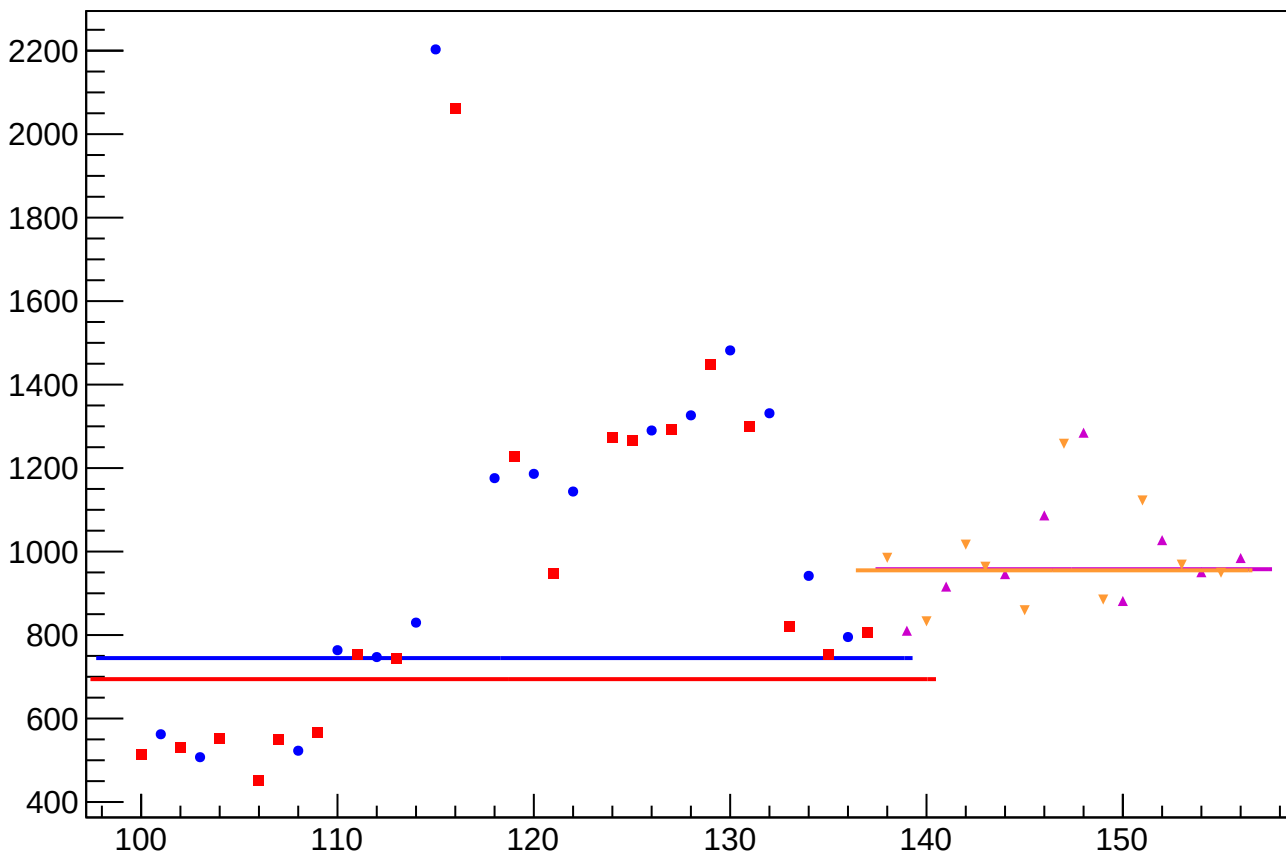
Right: -398.475 ± 200.896 $\chi^2/\text{NDF}: 31.9/34$

In: -282.532 ± 225.343 $\chi^2/\text{NDF}: 28.3/24$

Out: -75.001 ± 214.022 $\chi^2/\text{NDF}: 31.7/28$

All: -173.422 ± 155.184 $\chi^2/\text{NDF}: 60.5/53$

asym_sam5_rms vs Slug, Sign Corrected



Right In: 744.783 $\pm$ 0.210 χ^2/NDF : 1822553.5/15

Left Out: 955.006 $\pm$ 0.244 χ^2/NDF : 201581.0/9

Right Out: 694.348 $\pm$ 0.193 χ^2/NDF : 1803741.9/18

Left In: 957.734 $\pm$ 0.245 χ^2/NDF : 211727.9/8

Left: 956.364 $\pm$ 0.173 χ^2/NDF : 413371.2/18

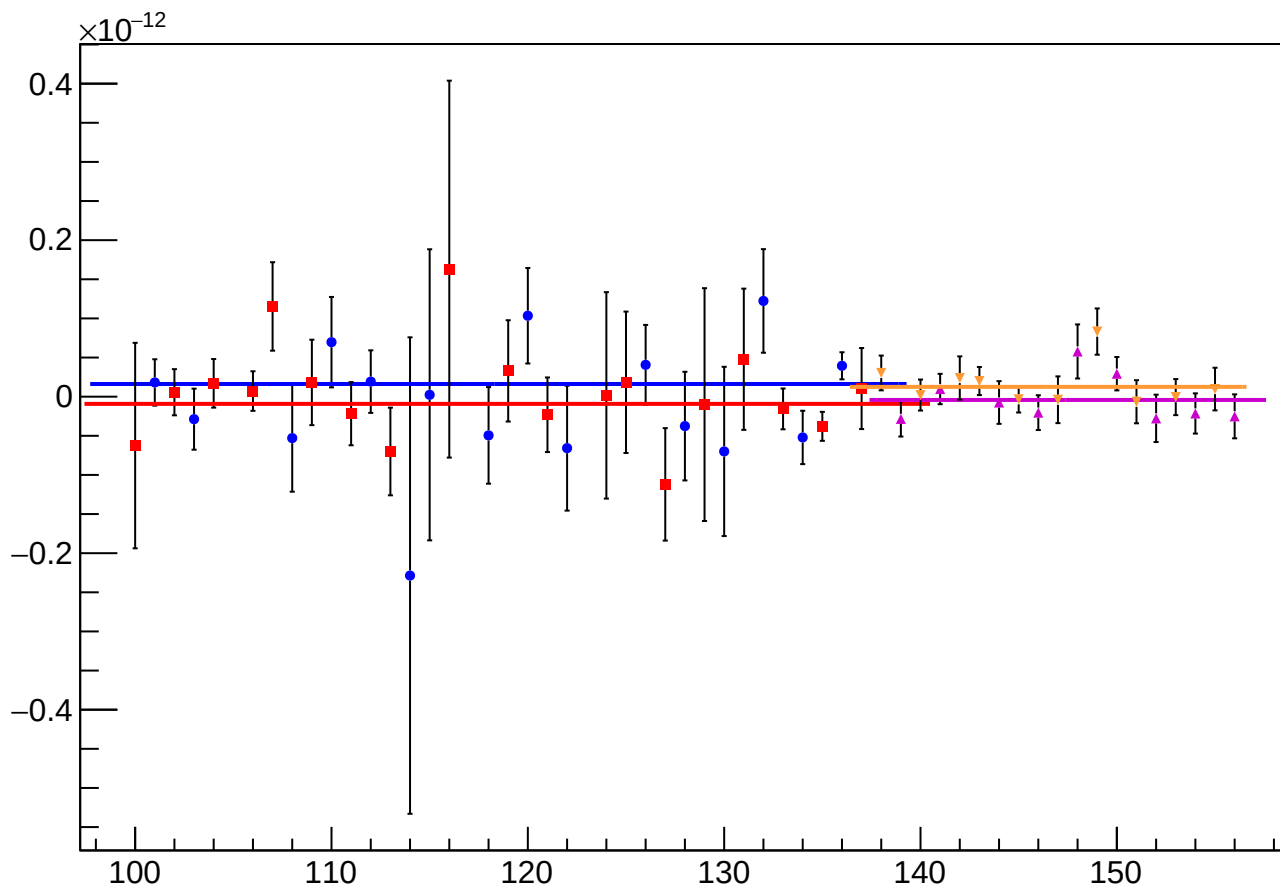
Right: 717.469 $\pm$ 0.142 χ^2/NDF : 3657590.2/34

In: 834.902 $\pm$ 0.159 χ^2/NDF : 2470264.5/24

Out: 794.795 $\pm$ 0.151 χ^2/NDF : 2707979.8/28

All: 813.816 $\pm$ 0.110 χ^2/NDF : 5211553.3/53

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 : 9.0/9

Right Out: -0.000+/-0.000 χ^2/NDF : 14.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.5/8

Left: 0.000+/-0.000 χ^2/NDF : 20.8/18

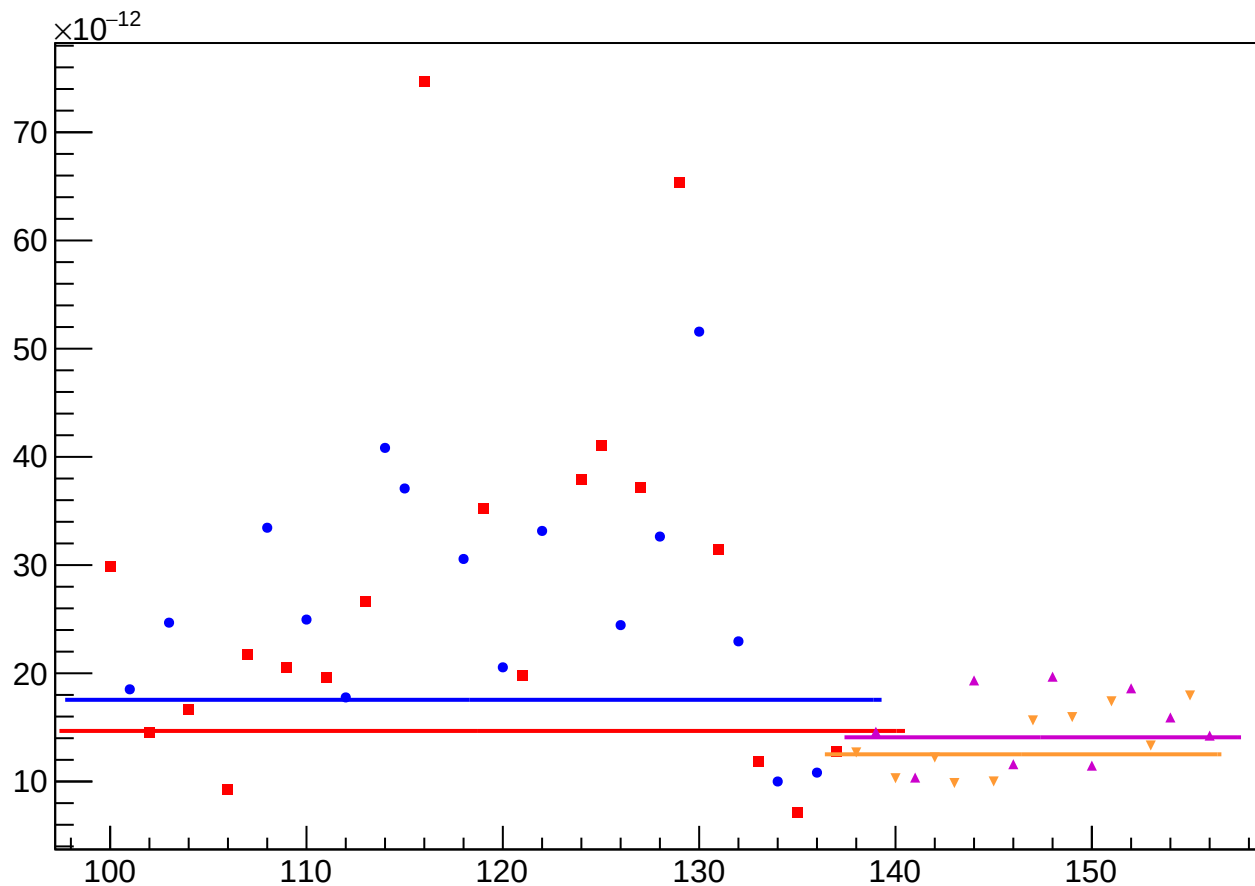
Right: 0.000+/-0.000 χ^2/NDF : 35.3/34

In: 0.000+/-0.000 χ^2/NDF : 29.8/24

Out: 0.000+/-0.000 χ^2/NDF : 26.5/28

All: 0.000+/-0.000 χ^2/NDF : 56.3/53

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 : 307934.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1741597.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 311749.7/8

Left: 0.000+/-0.000 χ^2/NDF : 661296.4/18

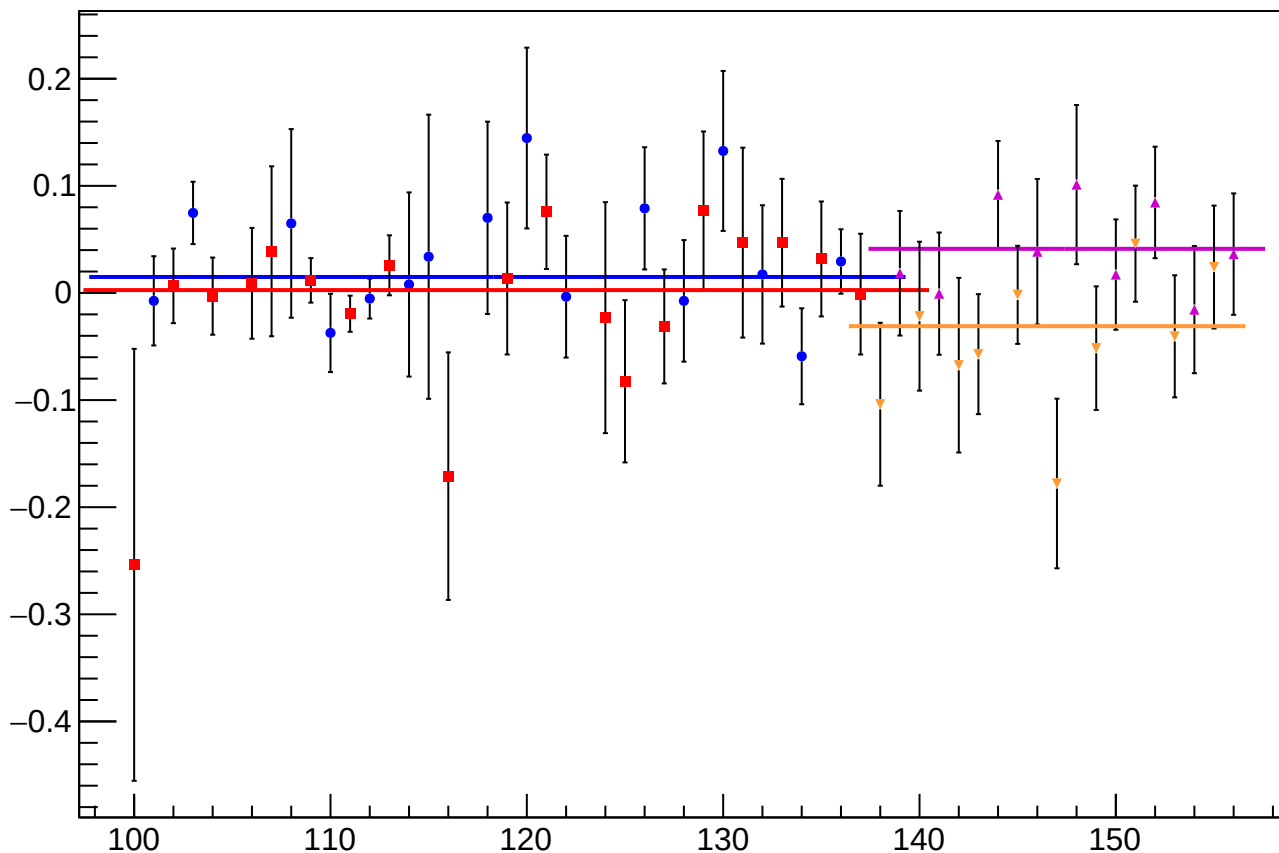
Right: 0.000+/-0.000 χ^2/NDF : 2980076.4/34

In: 0.000+/-0.000 χ^2/NDF : 1600721.5/24

Out: 0.000+/-0.000 χ^2/NDF : 2116433.7/28

All: 0.000+/-0.000 χ^2/NDF : 3829996.2/53

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: -0.031 $\pm$ 0.019 χ^2 /NDF: 8.3/9

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.041 $\pm$ 0.019 χ^2 /NDF: 4.2/8

Left: 0.005 $\pm$ 0.014 χ^2 /NDF: 19.6/18

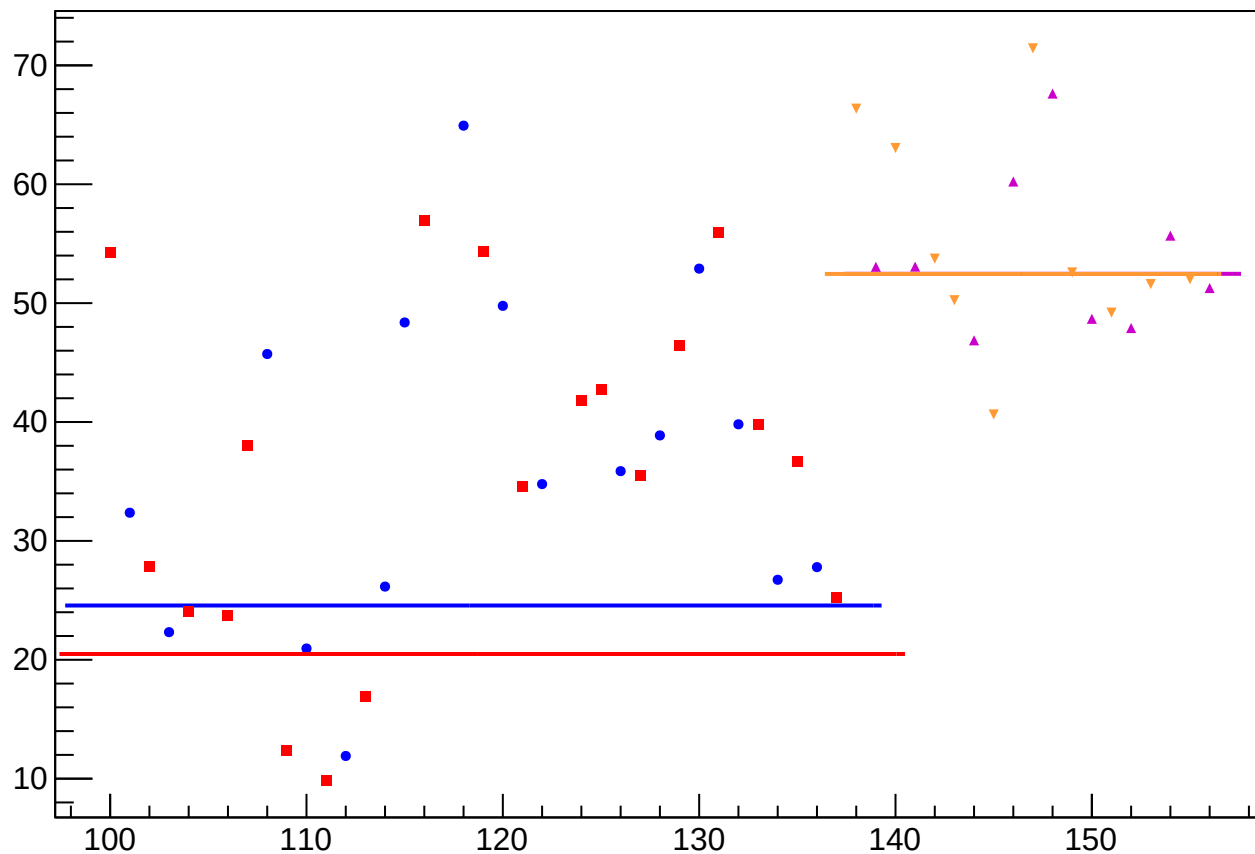
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.021 $\pm$ 0.009 χ^2 /NDF: 23.4/24

Out: -0.004 $\pm$ 0.008 χ^2 /NDF: 23.3/28

All: 0.007 $\pm$ 0.006 χ^2 /NDF: 50.7/53

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: 52.456 $\pm$ 0.014 χ^2 /NDF: 372824.0/9

Right Out: 20.488 $\pm$ 0.007 χ^2 /NDF: 3583938.4/18

Left In: 52.465 $\pm$ 0.014 χ^2 /NDF: 167503.4/8

Left: 52.461 $\pm$ 0.010 χ^2 /NDF: 540327.7/18

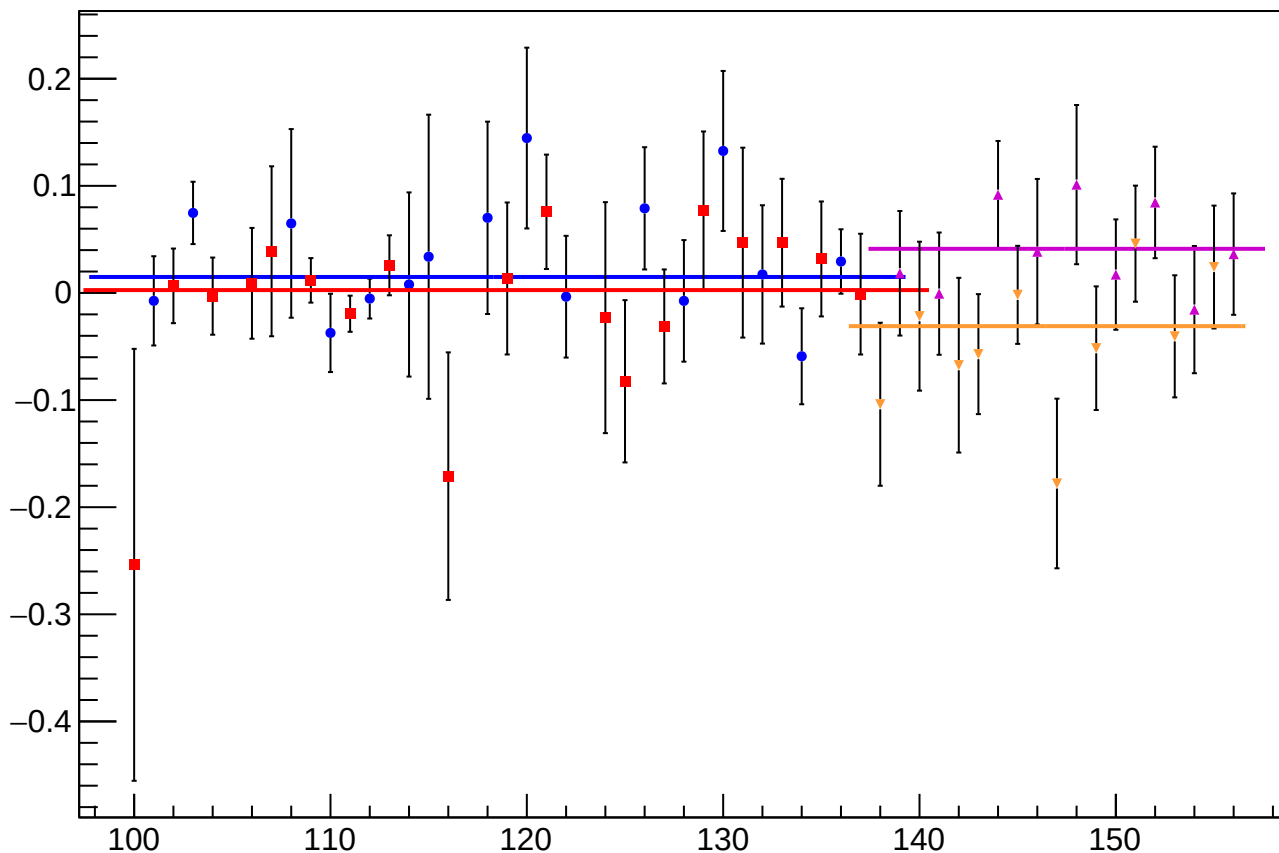
Right: 22.248 $\pm$ 0.005 χ^2 /NDF: 6237147.6/34

In: 31.119 $\pm$ 0.007 χ^2 /NDF: 5914163.5/24

Out: 26.531 $\pm$ 0.006 χ^2 /NDF: 8495887.3/28

All: 28.577 $\pm$ 0.004 χ^2 /NDF: 14682048.5/53

asym_sam5_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.031 ± 0.019 $\chi^2/\text{NDF}: 8.3/9$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.041 ± 0.019 $\chi^2/\text{NDF}: 4.2/8$

Left: 0.005 ± 0.014 $\chi^2/\text{NDF}: 19.6/18$

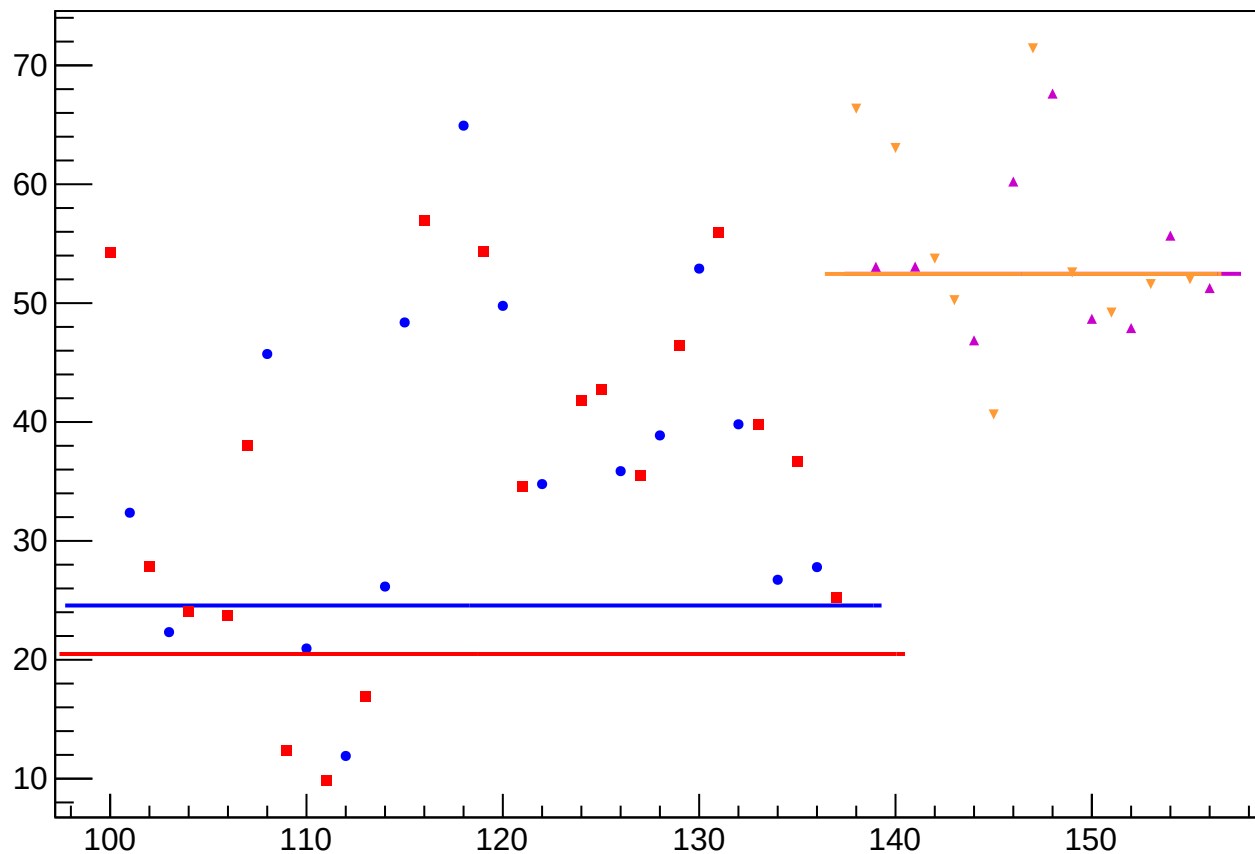
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.021 ± 0.009 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.004 ± 0.008 $\chi^2/\text{NDF}: 23.3/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 50.7/53$

asym_sam5_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2 /NDF: 2484530.5/15

Left Out: 52.456 $\pm$ 0.014 χ^2 /NDF: 372824.0/9

Right Out: 20.488 $\pm$ 0.007 χ^2 /NDF: 3583938.4/18

Left In: 52.465 $\pm$ 0.014 χ^2 /NDF: 167503.4/8

Left: 52.461 $\pm$ 0.010 χ^2 /NDF: 540327.7/18

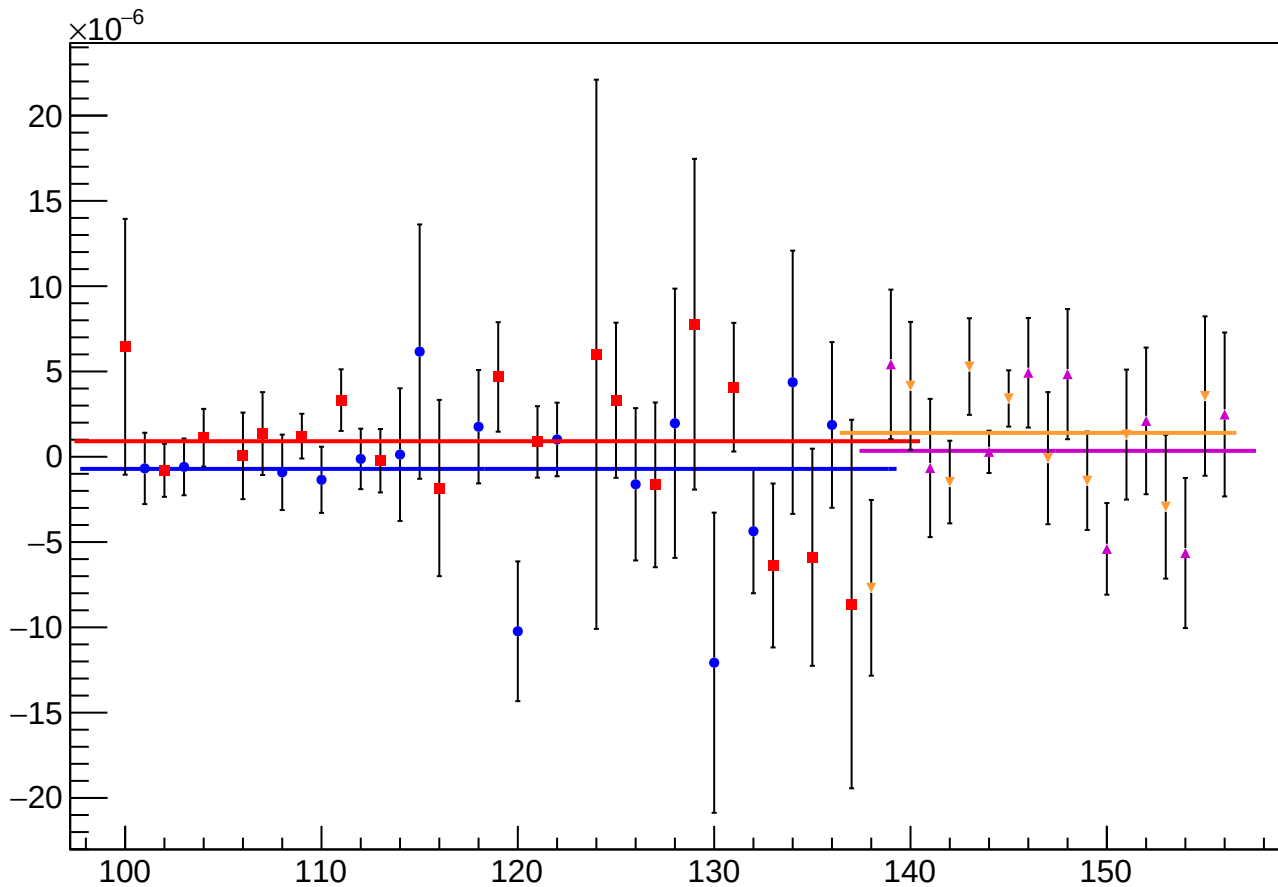
Right: 22.248 $\pm$ 0.005 χ^2 /NDF: 6237147.6/34

In: 31.119 $\pm$ 0.007 χ^2 /NDF: 5914163.5/24

Out: 26.531 $\pm$ 0.006 χ^2 /NDF: 8495887.3/28

All: 28.577 $\pm$ 0.004 χ^2 /NDF: 14682048.5/53

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 : 10.8/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 11.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 11.6/8

Left: 0.000 ± 0.000 χ^2/NDF : 23.1/18

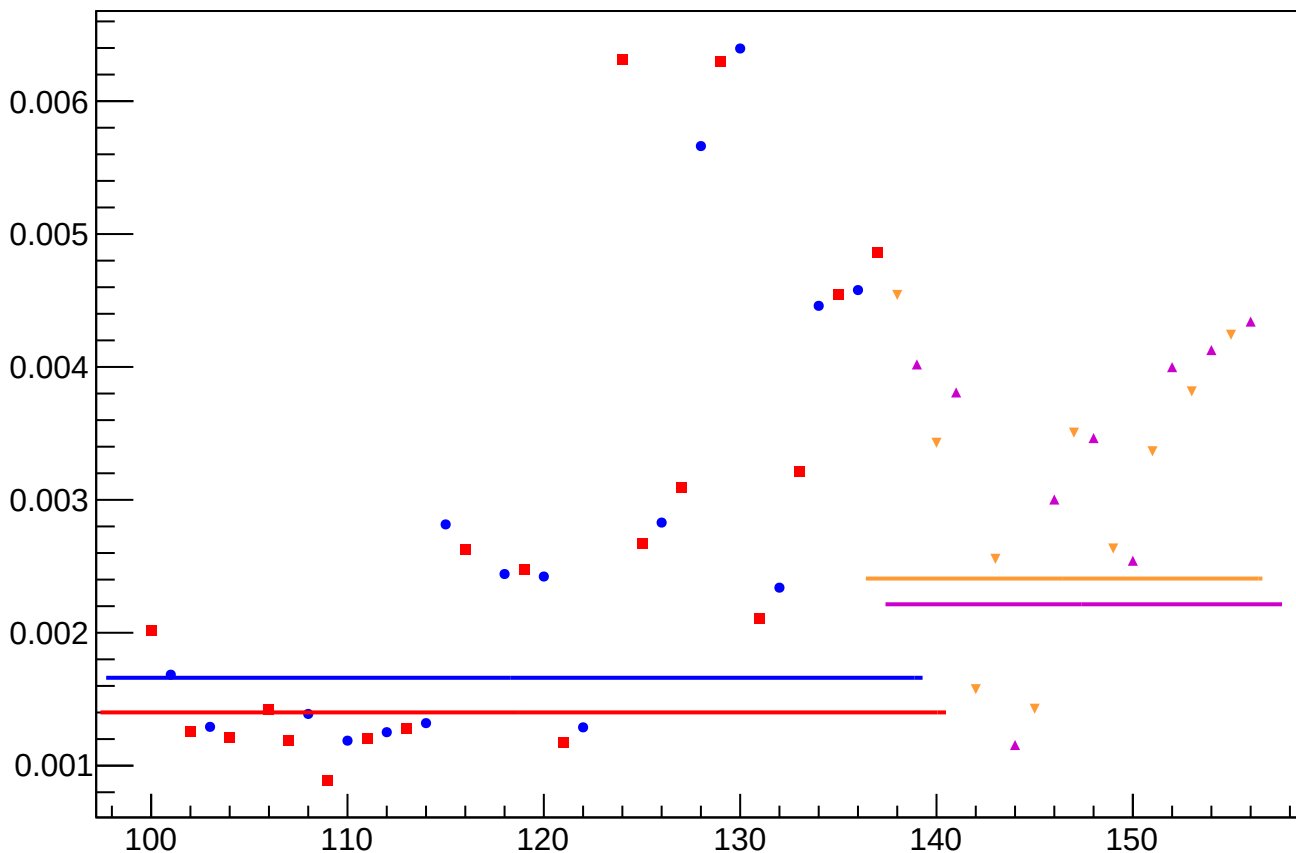
Right: 0.000 ± 0.000 χ^2/NDF : 26.3/34

In: -0.000 ± 0.000 χ^2/NDF : 23.7/24

Out: 0.000 ± 0.000 χ^2/NDF : 22.9/28

All: 0.000 ± 0.000 χ^2/NDF : 50.0/53

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 :2269336.2/9

Right Out: 0.001+/-0.000 χ^2/NDF : 2915624.2/18

Left In: 0.002+/-0.000 χ^2/NDF :3583106.8/8

Left: 0.002+/-0.000 χ^2/NDF : 5896353.6/18

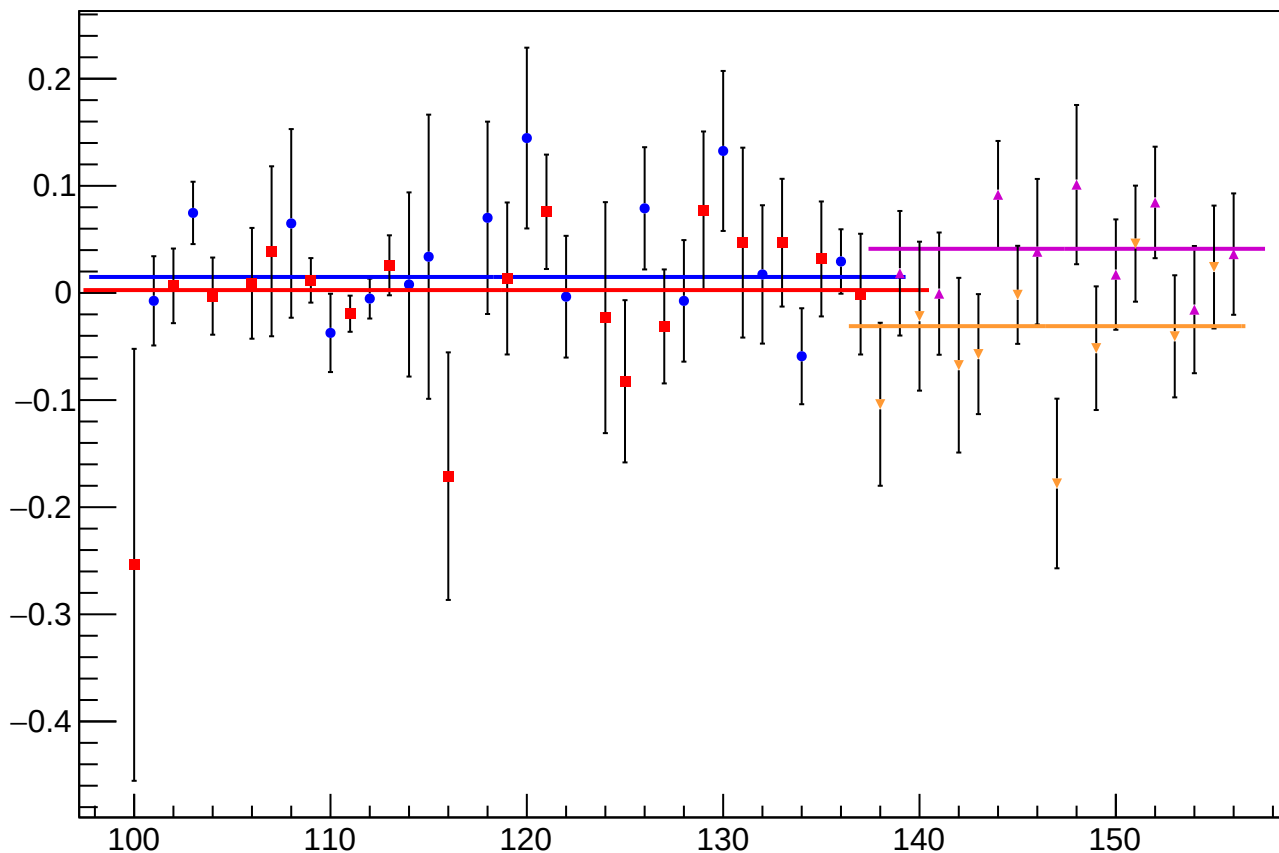
Right: 0.002+/-0.000 χ^2/NDF : 6020323.5/34

In: 0.002+/-0.000 χ^2/NDF :6991011.6/24

Out: 0.002+/-0.000 χ^2/NDF :6833359.9/28

All: 0.002+/-0.000 χ^2/NDF : 13946766.8/53

asym_sam5_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.031 ± 0.019 $\chi^2/\text{NDF}: 8.3/9$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.041 ± 0.019 $\chi^2/\text{NDF}: 4.2/8$

Left: 0.005 ± 0.014 $\chi^2/\text{NDF}: 19.6/18$

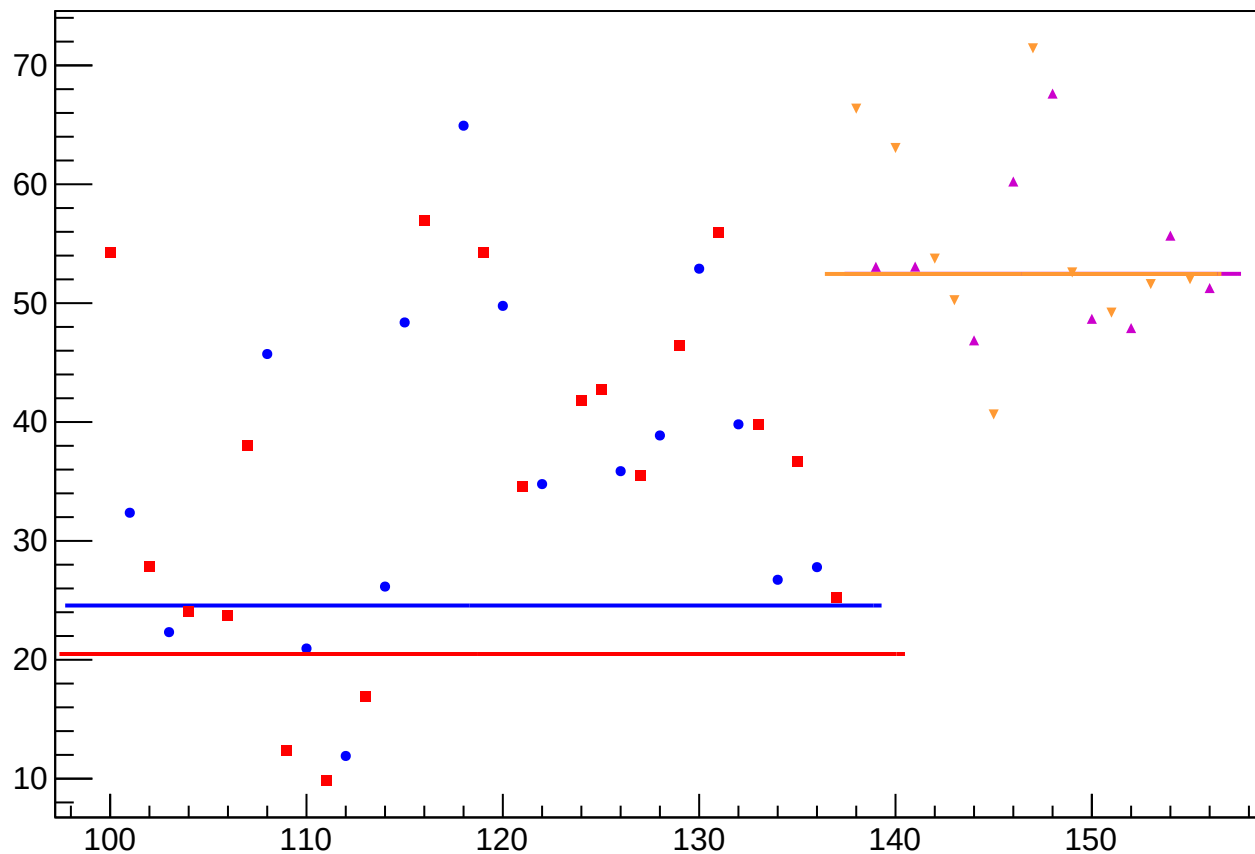
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.021 ± 0.009 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.004 ± 0.008 $\chi^2/\text{NDF}: 23.3/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 50.7/53$

asym_sam5_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566+/-0.007 χ^2/NDF : 2484434.5/15

Left Out: 52.456+/-0.014 χ^2/NDF : 372880.2/9

Right Out: 20.487+/-0.007 χ^2/NDF : 3583888.1/18

Left In: 52.466+/-0.014 χ^2/NDF : 167534.8/8

Left: 52.461+/-0.010 χ^2/NDF : 540415.3/18

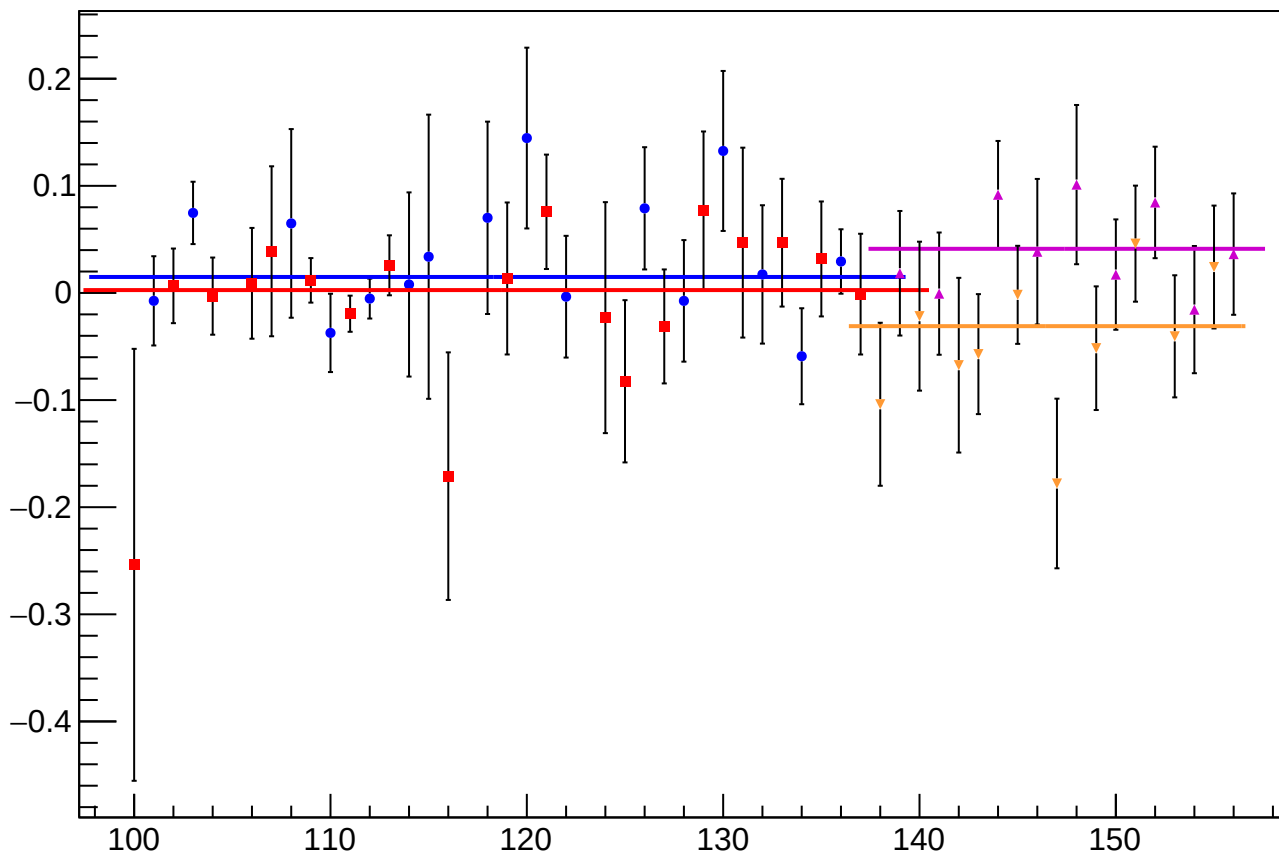
Right: 22.247+/-0.005 χ^2/NDF : 6237010.7/34

In: 31.118+/-0.007 χ^2/NDF : 5914379.2/24

Out: 26.530+/-0.006 χ^2/NDF : 8496149.0/28

All: 28.576+/-0.004 χ^2/NDF : 14682544.6/53

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.031 ± 0.019 $\chi^2/\text{NDF}: 8.3/9$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.041 ± 0.019 $\chi^2/\text{NDF}: 4.2/8$

Left: 0.005 ± 0.014 $\chi^2/\text{NDF}: 19.6/18$

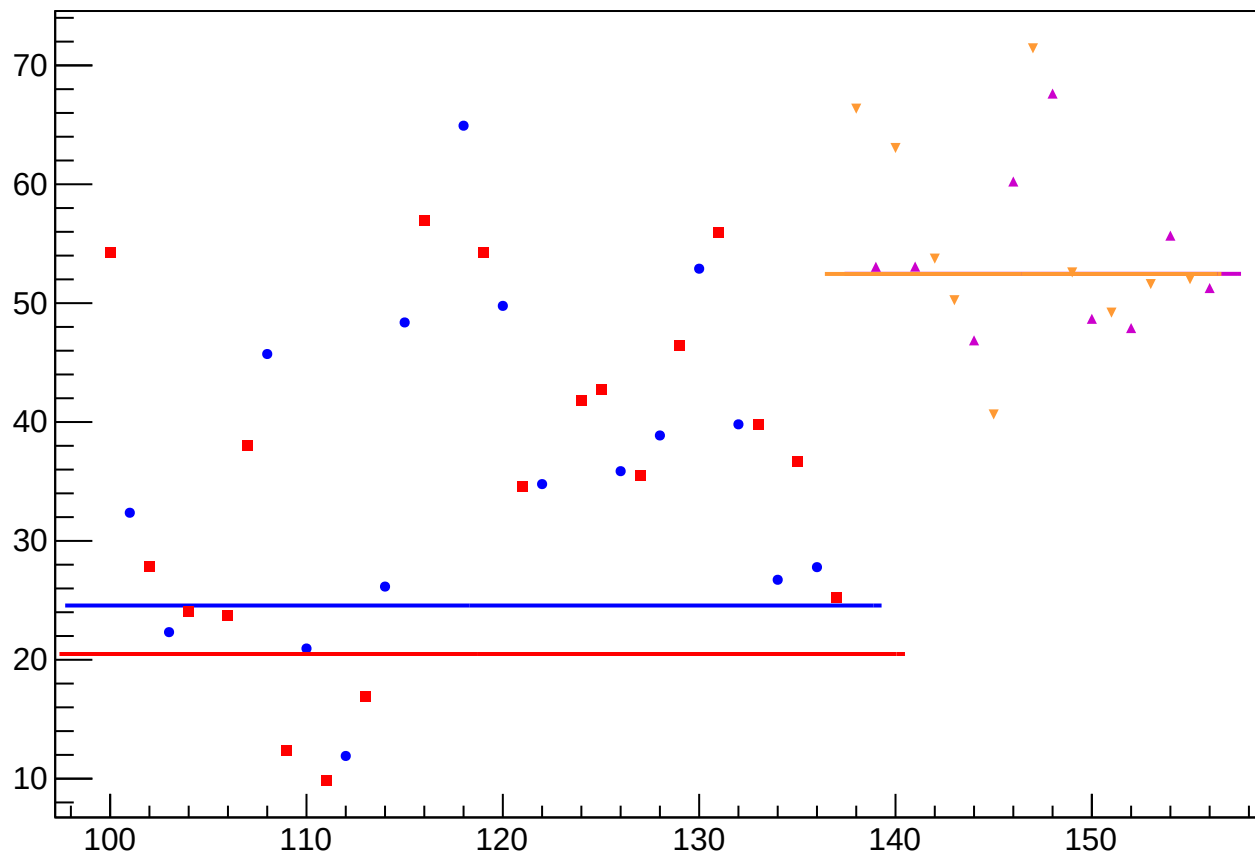
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.021 ± 0.009 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.004 ± 0.008 $\chi^2/\text{NDF}: 23.3/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 50.7/53$

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566+/-0.007 χ^2/NDF : 2484434.5/15

Left Out: 52.456+/-0.014 χ^2/NDF : 372880.2/9

Right Out: 20.487+/-0.007 χ^2/NDF : 3583888.1/18

Left In: 52.466+/-0.014 χ^2/NDF : 167534.8/8

Left: 52.461+/-0.010 χ^2/NDF : 540415.3/18

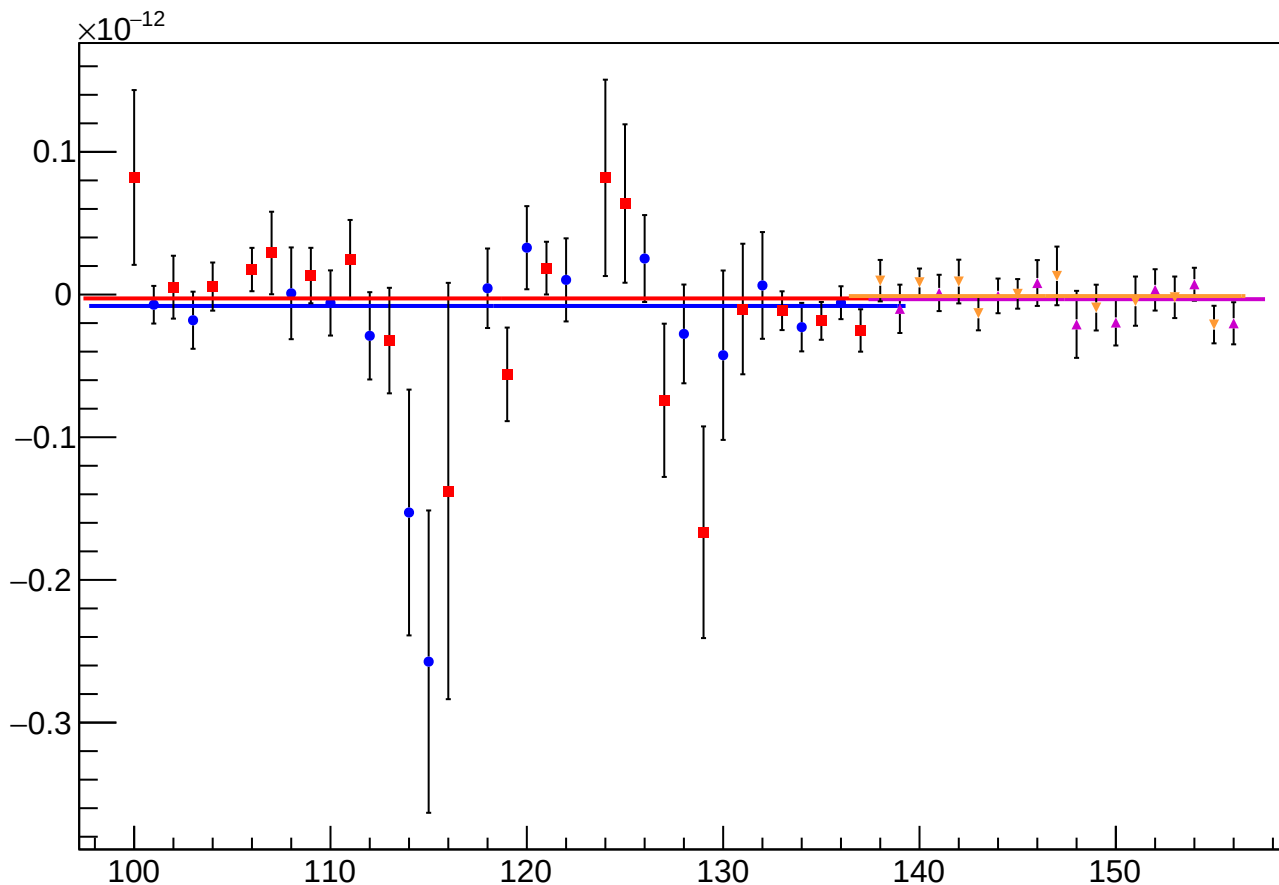
Right: 22.247+/-0.005 χ^2/NDF : 6237010.7/34

In: 31.118+/-0.007 χ^2/NDF : 5914379.2/24

Out: 26.530+/-0.006 χ^2/NDF : 8496149.0/28

All: 28.576+/-0.004 χ^2/NDF : 14682544.6/53

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 : 6.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 26.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.7/8

Left: -0.000+/-0.000 χ^2/NDF : 10.9/18

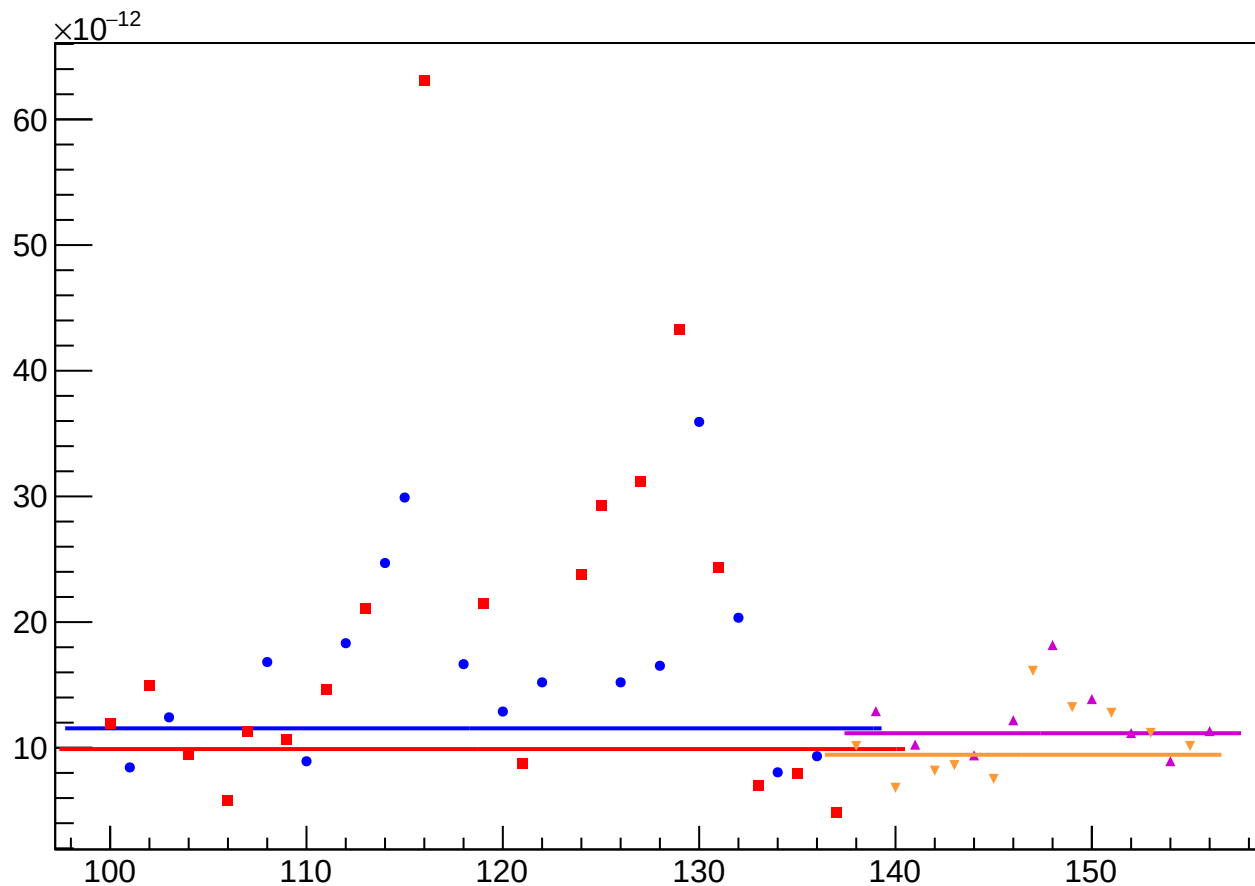
Right: -0.000+/-0.000 χ^2/NDF : 41.1/34

In: -0.000+/-0.000 χ^2/NDF : 19.7/24

Out: -0.000+/-0.000 χ^2/NDF : 32.2/28

All: -0.000+/-0.000 χ^2/NDF : 52.4/53

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 : 676357.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2635766.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 391603.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1210361.7/18

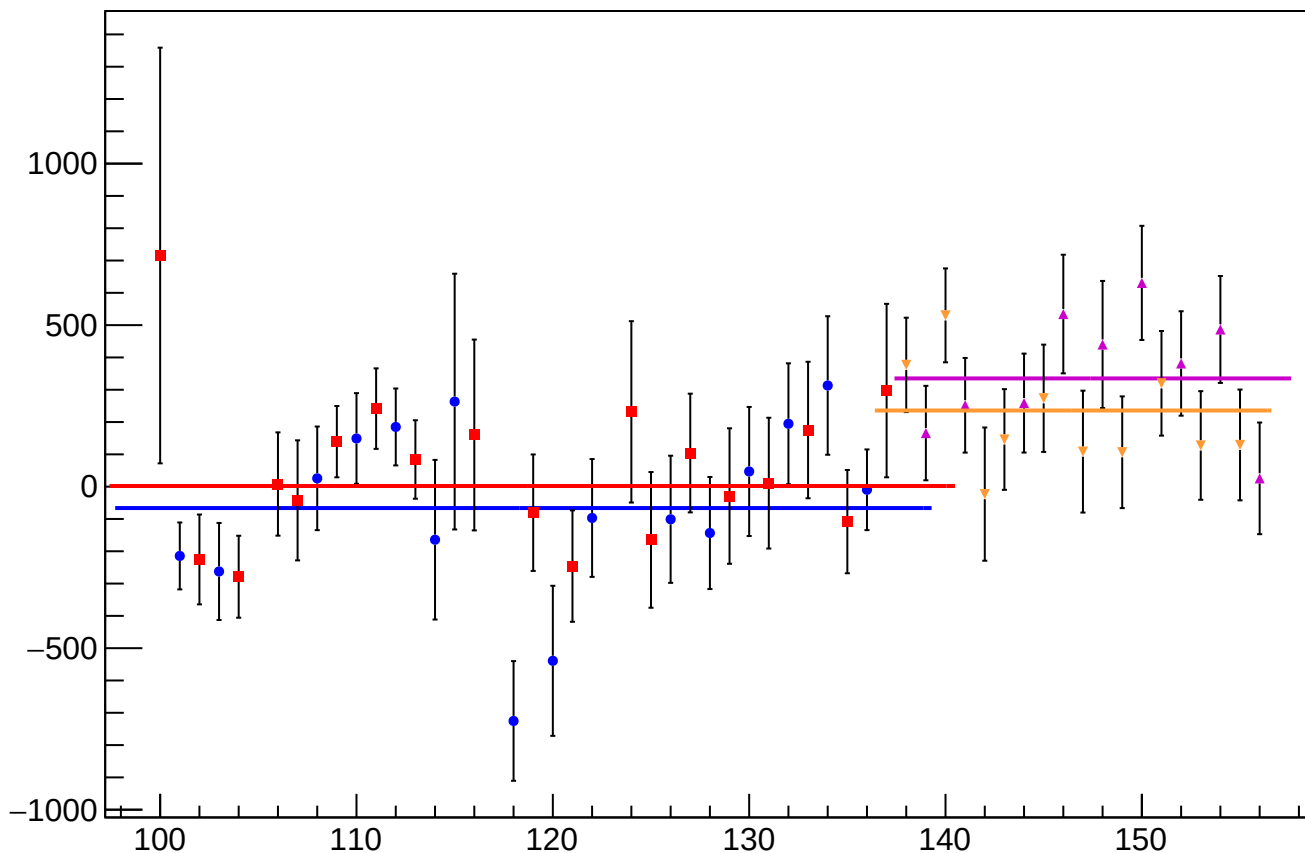
Right: 0.000+/-0.000 χ^2/NDF : 3905918.0/34

In: 0.000+/-0.000 χ^2/NDF : 1576900.9/24

Out: 0.000+/-0.000 χ^2/NDF : 3321274.6/28

All: 0.000+/-0.000 χ^2/NDF : 5132273.8/53

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.230 ± 40.937 χ^2/NDF : 34.4/15

Left Out: 235.740 ± 52.401 χ^2/NDF : 9.1/9

Right Out: 2.017 ± 38.866 χ^2/NDF : 21.1/18

Left In: 335.057 ± 54.901 χ^2/NDF : 10.3/8

Left: 283.087 ± 37.906 χ^2/NDF : 21.1/18

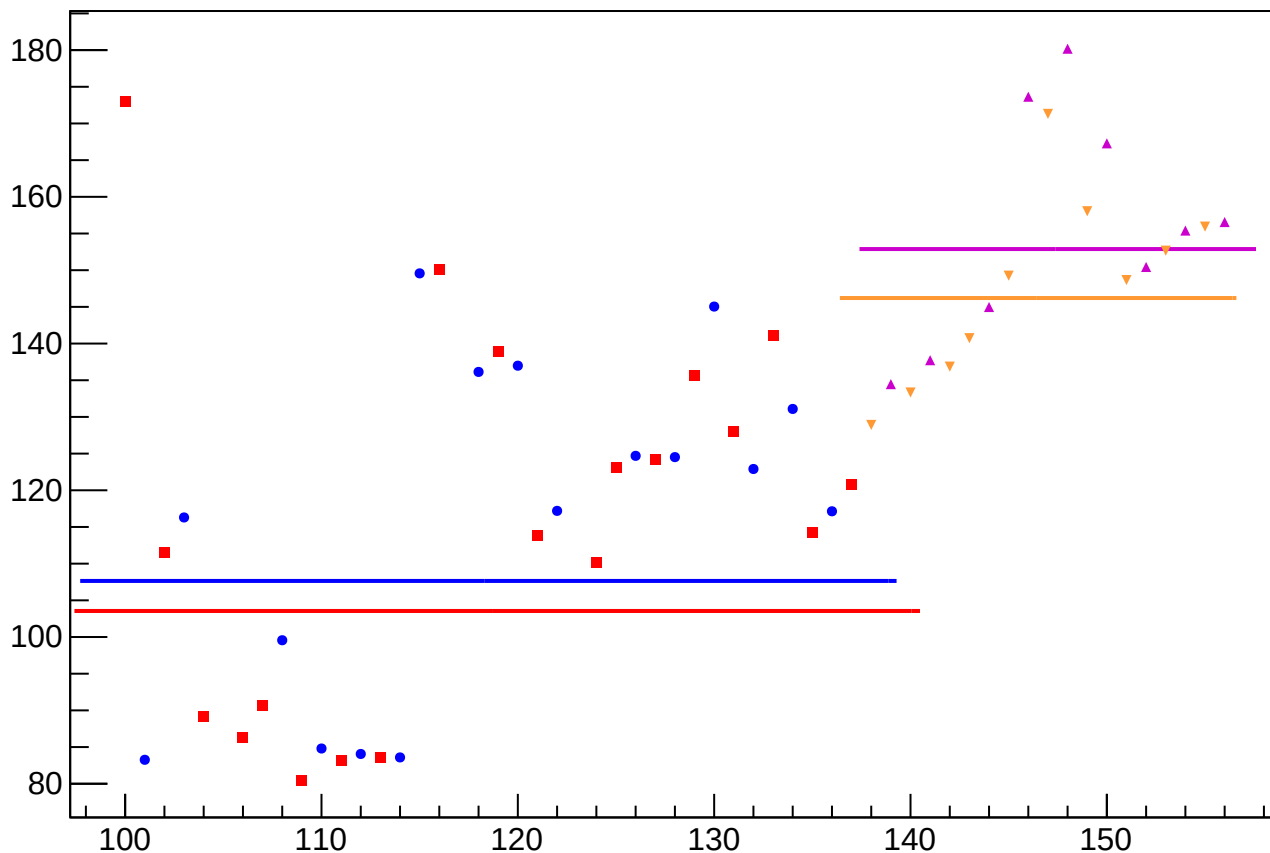
Right: -30.337 ± 28.186 χ^2/NDF : 57.0/34

In: 77.162 ± 32.818 χ^2/NDF : 79.0/24

Out: 84.963 ± 31.217 χ^2/NDF : 43.0/28

All: 81.257 ± 22.619 χ^2/NDF : 122.1/53

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532821.7/15

Left Out: 146.206 $\pm$ 0.037 χ^2 /NDF:105583.2/9

Right Out: 103.550 $\pm$ 0.027 χ^2 /NDF: 617345.0/18

Left In: 152.882 $\pm$ 0.039 χ^2 /NDF:137656.4/8

Left: 149.389 $\pm$ 0.027 χ^2 /NDF: 258716.6/18

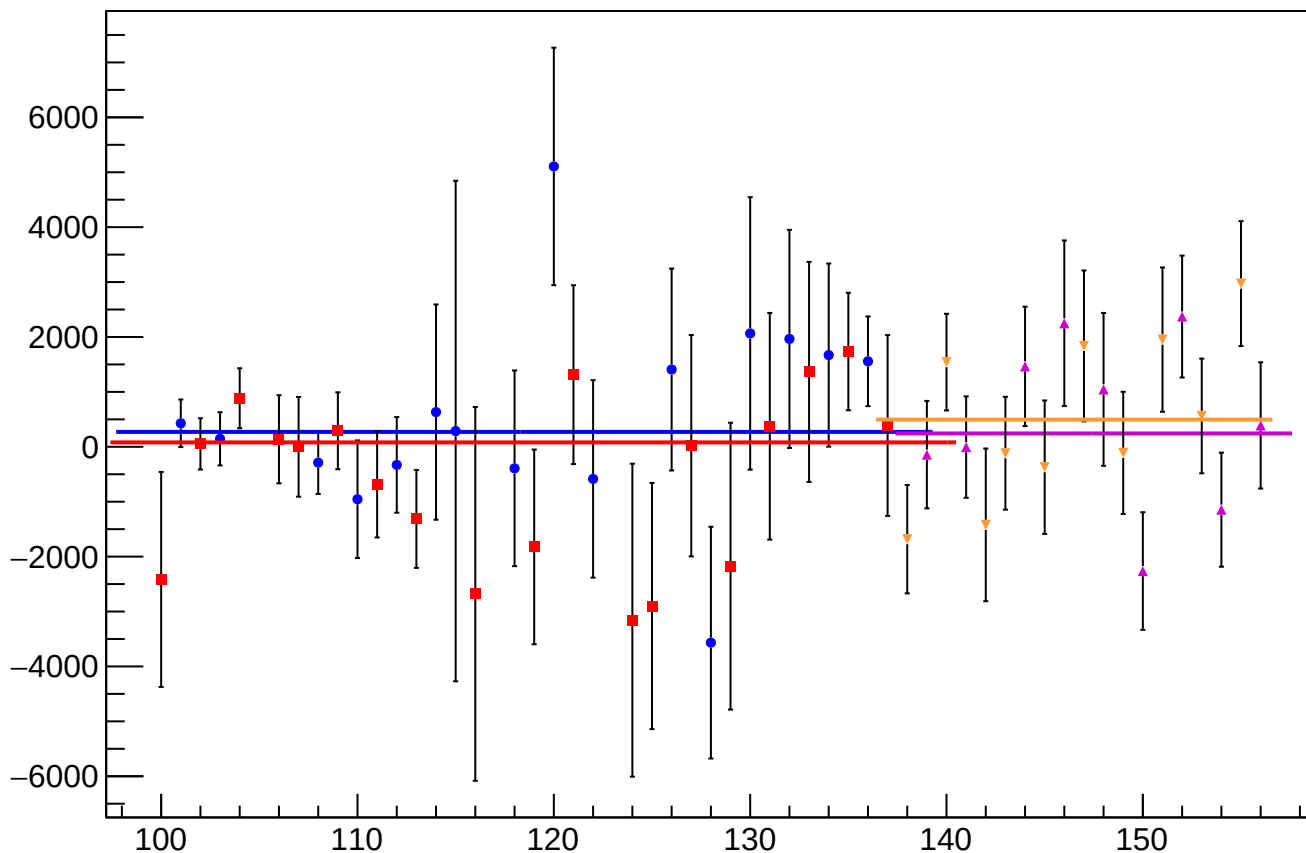
Right: 105.491 $\pm$ 0.020 χ^2 /NDF: 1160688.9/34

In: 123.809 $\pm$ 0.023 χ^2 /NDF:1543196.2/24

Out: 118.688 $\pm$ 0.022 χ^2 /NDF:1577876.2/28

All: 121.121 $\pm$ 0.016 χ^2 /NDF: 3146638.5/53

asym_sam6_reg_correction_mean vs Slug, Sign Corrected



Right In: 271.505 ± 230.663 χ^2/NDF : 16.5/15

Left Out: 494.872 ± 352.123 χ^2/NDF : 16.3/9

Right Out: 80.094 ± 232.154 χ^2/NDF : 16.0/18

Left In: 243.252 ± 367.999 χ^2/NDF : 14.5/8

Left: 374.607 ± 254.416 χ^2/NDF : 31.1/18

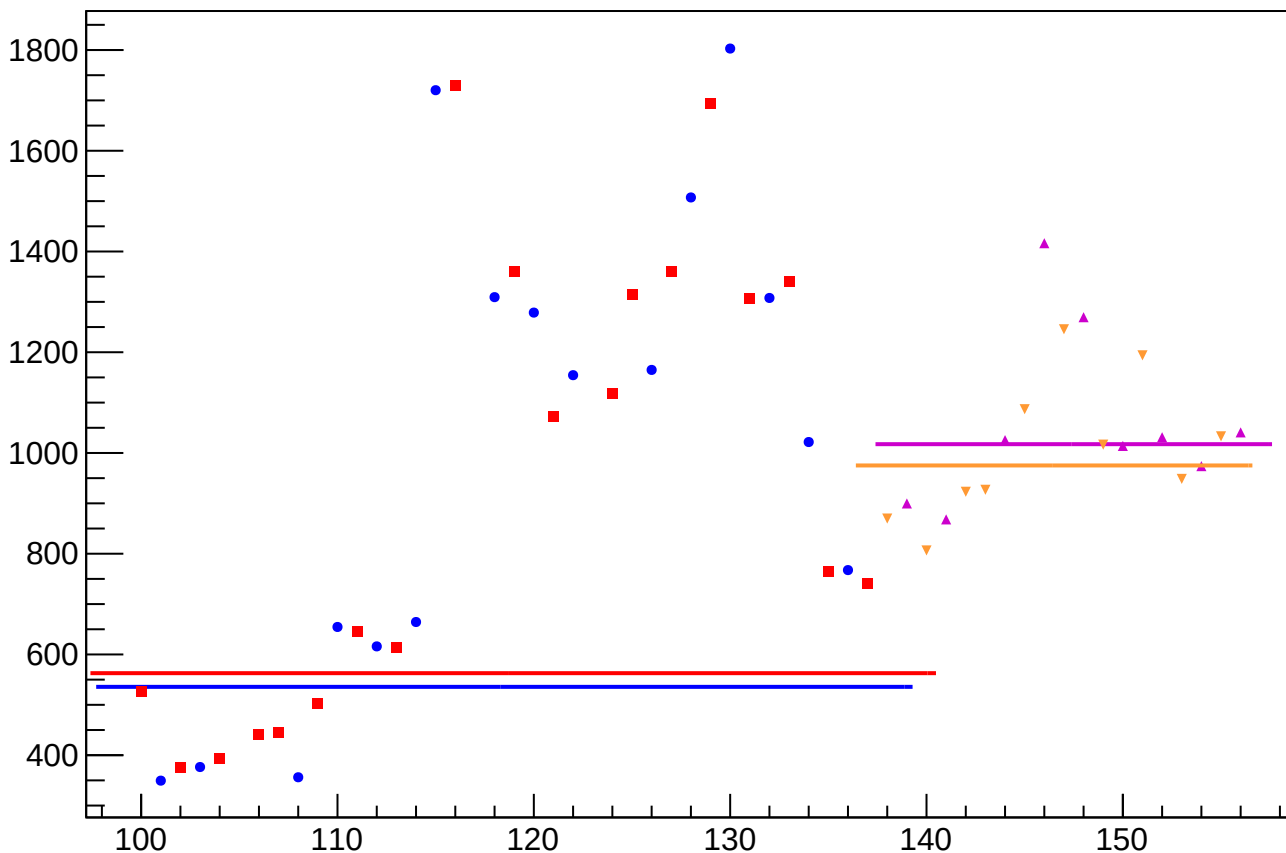
Right: 176.417 ± 163.628 χ^2/NDF : 32.8/34

In: 263.536 ± 195.443 χ^2/NDF : 31.0/24

Out: 205.763 ± 193.821 χ^2/NDF : 33.3/28

All: 234.409 ± 137.622 χ^2/NDF : 64.3/53

asym_sam6_reg_correction_rms vs Slug, Sign Corrected



Right In: 535.683+/-0.163 χ^2/NDF : 3632390.5/15

Left Out: 975.223+/-0.249 χ^2/NDF : 262525.6/9

Right Out: 562.845+/-0.164 χ^2/NDF : 3111031.5/18

Left In: 1017.472+/-0.260 χ^2/NDF : 291521.8/8

Left: 995.416+/-0.180 χ^2/NDF : 567809.0/18

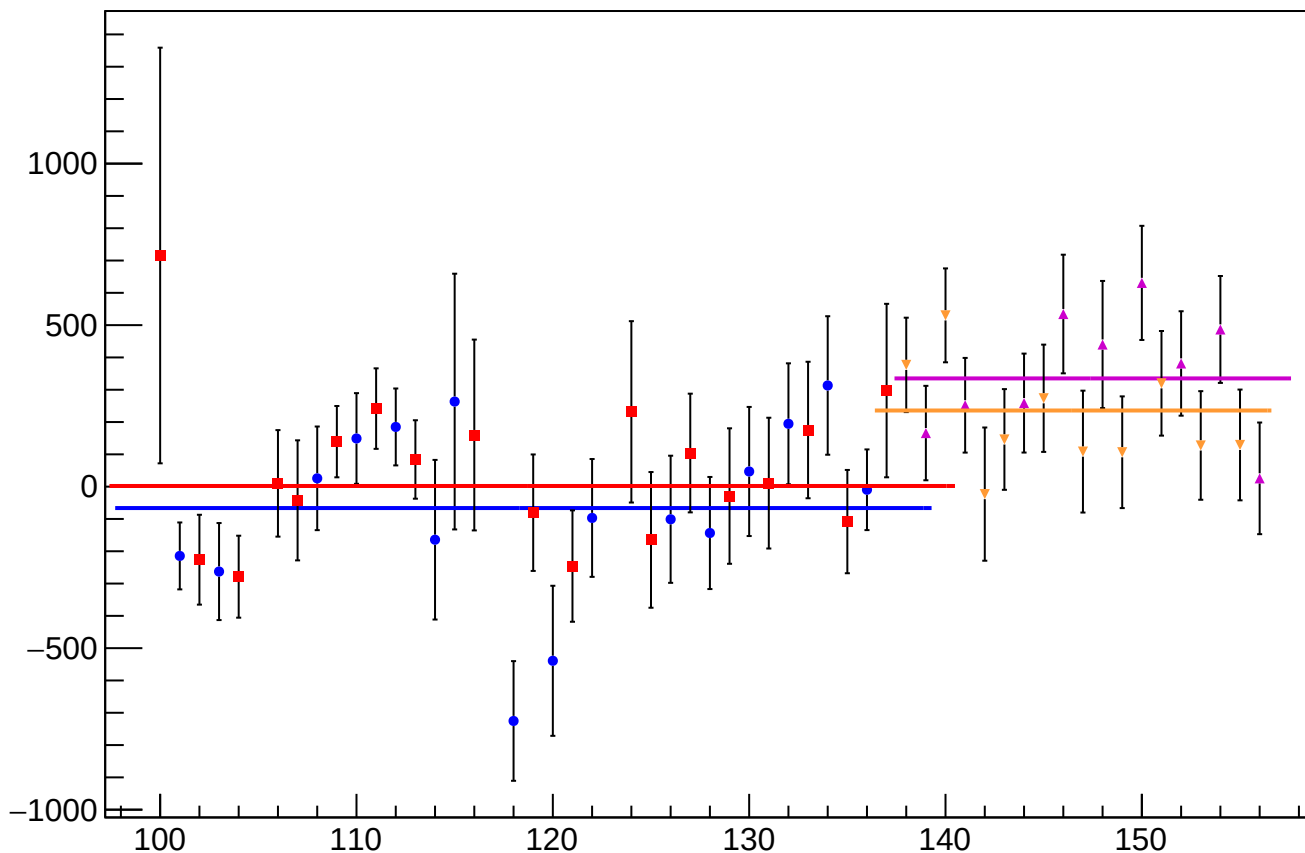
Right: 549.176+/-0.116 χ^2/NDF : 6757198.8/34

In: 671.578+/-0.138 χ^2/NDF : 6385047.6/24

Out: 687.786+/-0.137 χ^2/NDF : 5285514.7/28

All: 679.750+/-0.097 χ^2/NDF : 11677497.1/53

cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 $\pm$ 40.937 χ^2 /NDF: 34.4/15

Left Out: 235.742 $\pm$ 52.401 χ^2 /NDF:9.1/9

Right Out: 2.062 $\pm$ 38.937 χ^2 /NDF: 21.1/18

Left In: 335.058 $\pm$ 54.901 χ^2 /NDF:10.3/8

Left: 283.088 $\pm$ 37.906 χ^2 /NDF: 21.1/18

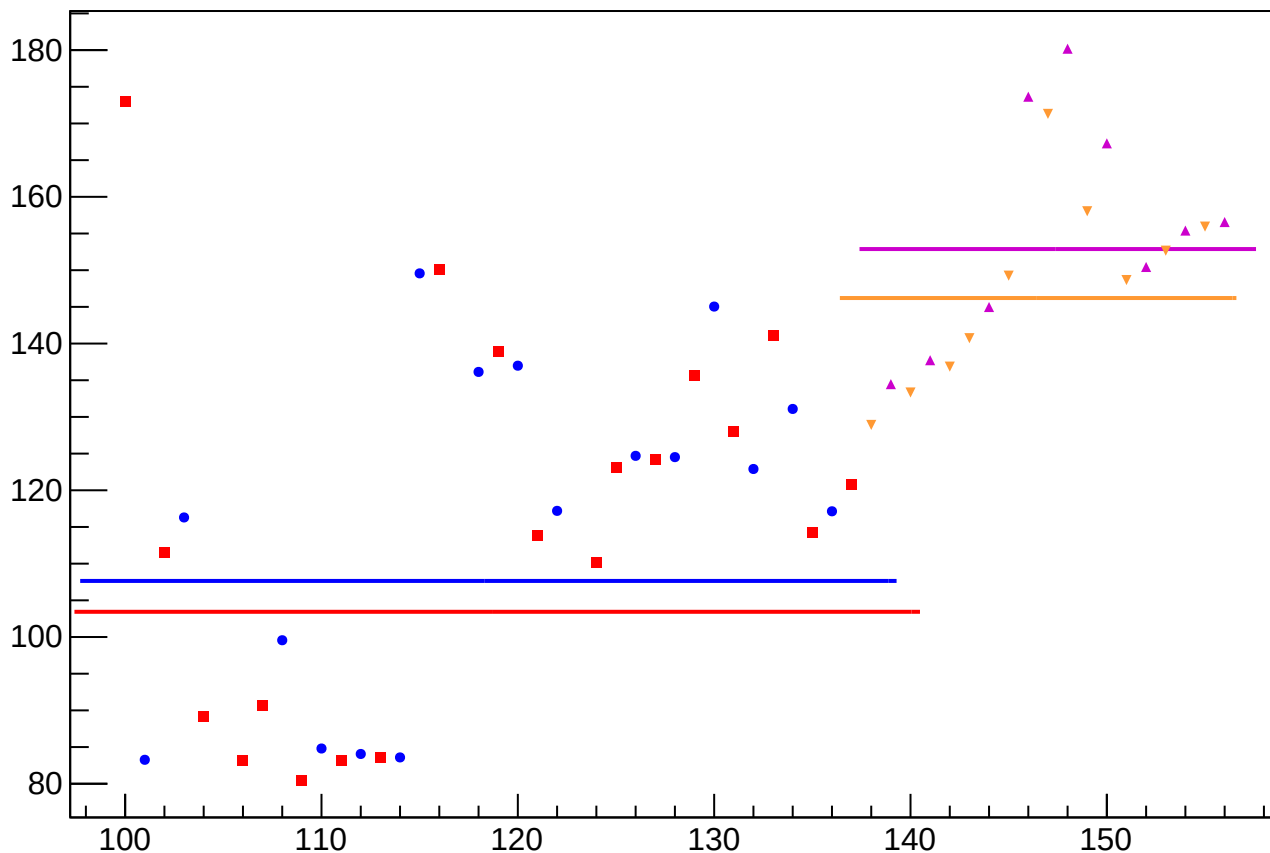
Right: -30.387 $\pm$ 28.213 χ^2 /NDF: 57.0/34

In: 77.145 $\pm$ 32.818 χ^2 /NDF:79.0/24

Out: 85.186 $\pm$ 31.253 χ^2 /NDF:43.0/28

All: 81.362 $\pm$ 22.632 χ^2 /NDF: 122.1/53

cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532822.8/15

Left Out: 146.206 $\pm$ 0.037 χ^2 /NDF:105583.2/9

Right Out: 103.438 $\pm$ 0.028 χ^2 /NDF: 624750.2/18

Left In: 152.882 $\pm$ 0.039 χ^2 /NDF:137656.4/8

Left: 149.389 $\pm$ 0.027 χ^2 /NDF: 258716.6/18

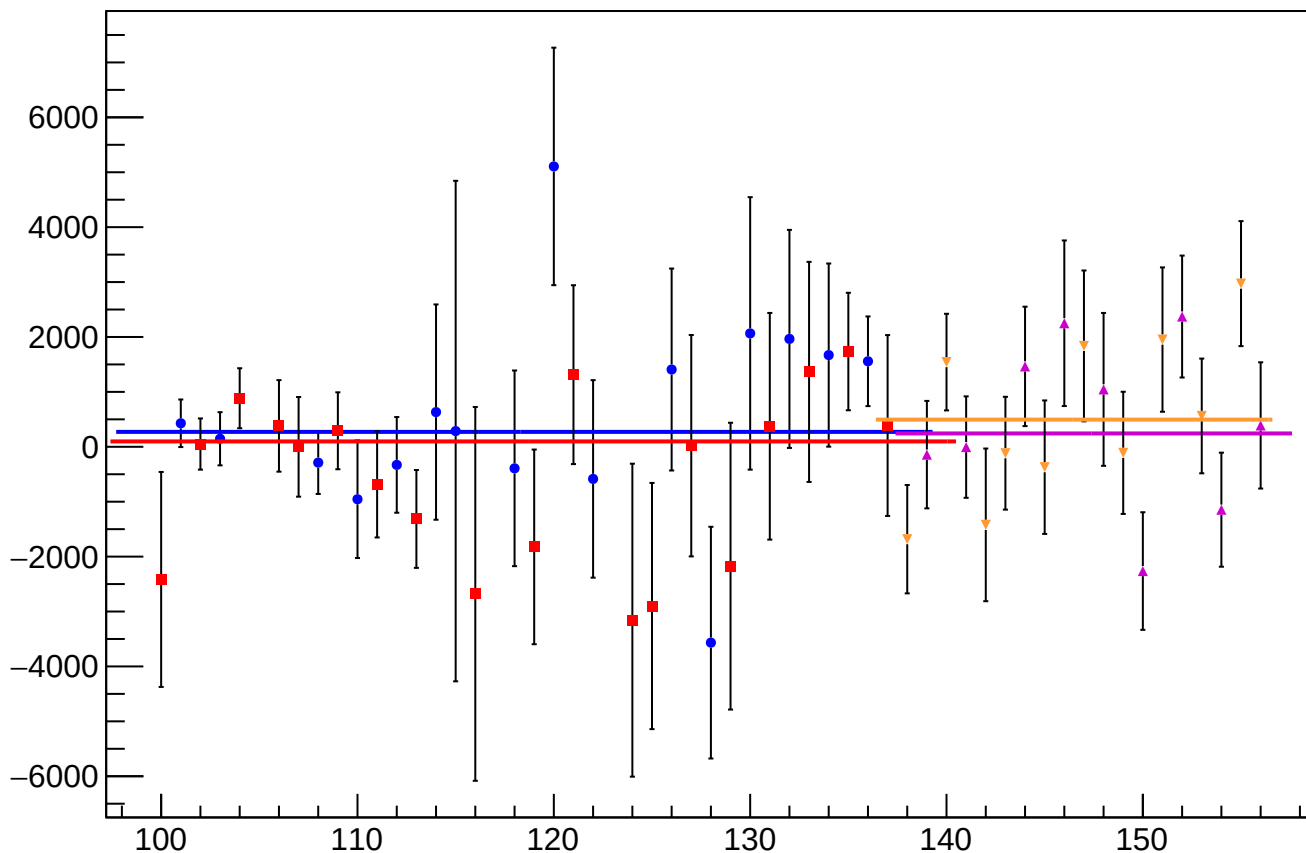
Right: 105.436 $\pm$ 0.020 χ^2 /NDF: 1168660.2/34

In: 123.809 $\pm$ 0.023 χ^2 /NDF:1543195.2/24

Out: 118.651 $\pm$ 0.022 χ^2 /NDF:1588678.4/28

All: 121.104 $\pm$ 0.016 χ^2 /NDF: 3157781.8/53

asym_sam6_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645 $\pm$ 230.655 χ^2 /NDF: 16.5/15

Left Out: 494.880 $\pm$ 352.123 χ^2 /NDF:16.3/9

Right Out: 97.847 $\pm$ 232.781 χ^2 /NDF: 16.1/18

Left In: 243.245 $\pm$ 367.999 χ^2 /NDF:14.5/8

Left: 374.607 $\pm$ 254.416 χ^2 /NDF: 31.1/18

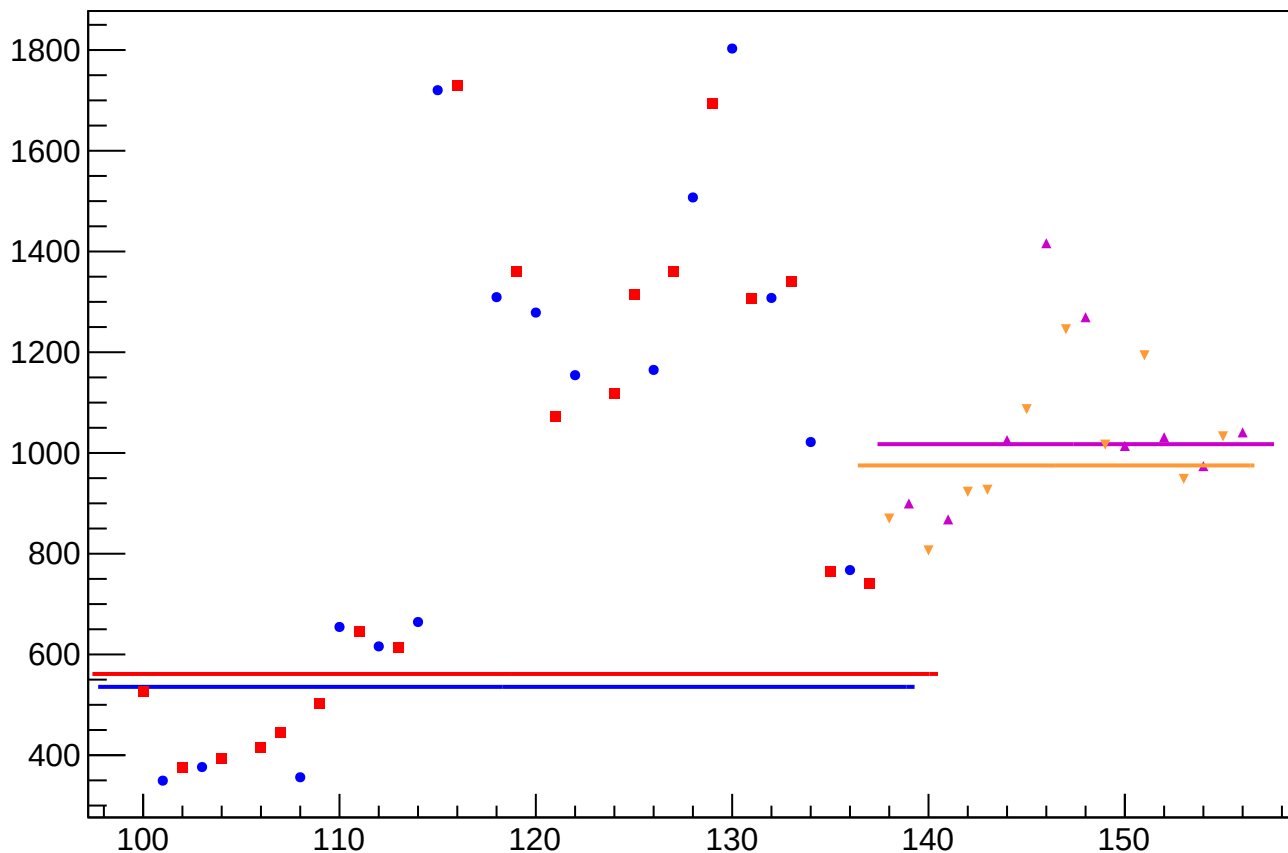
Right: 185.543 $\pm$ 163.844 χ^2 /NDF: 32.9/34

In: 263.635 $\pm$ 195.439 χ^2 /NDF:31.0/24

Out: 218.592 $\pm$ 194.185 χ^2 /NDF:33.3/28

All: 240.968 $\pm$ 137.751 χ^2 /NDF: 64.3/53

asym_sam6_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661 $\pm$ 0.163 χ^2 /NDF: 3632591.0/15

Left Out: 975.223 $\pm$ 0.249 χ^2 /NDF: 262525.7/9

Right Out: 561.270 $\pm$ 0.165 χ^2 /NDF: 3130760.7/18

Left In: 1017.472 $\pm$ 0.260 χ^2 /NDF: 291522.0/8

Left: 995.416 $\pm$ 0.180 χ^2 /NDF: 567809.2/18

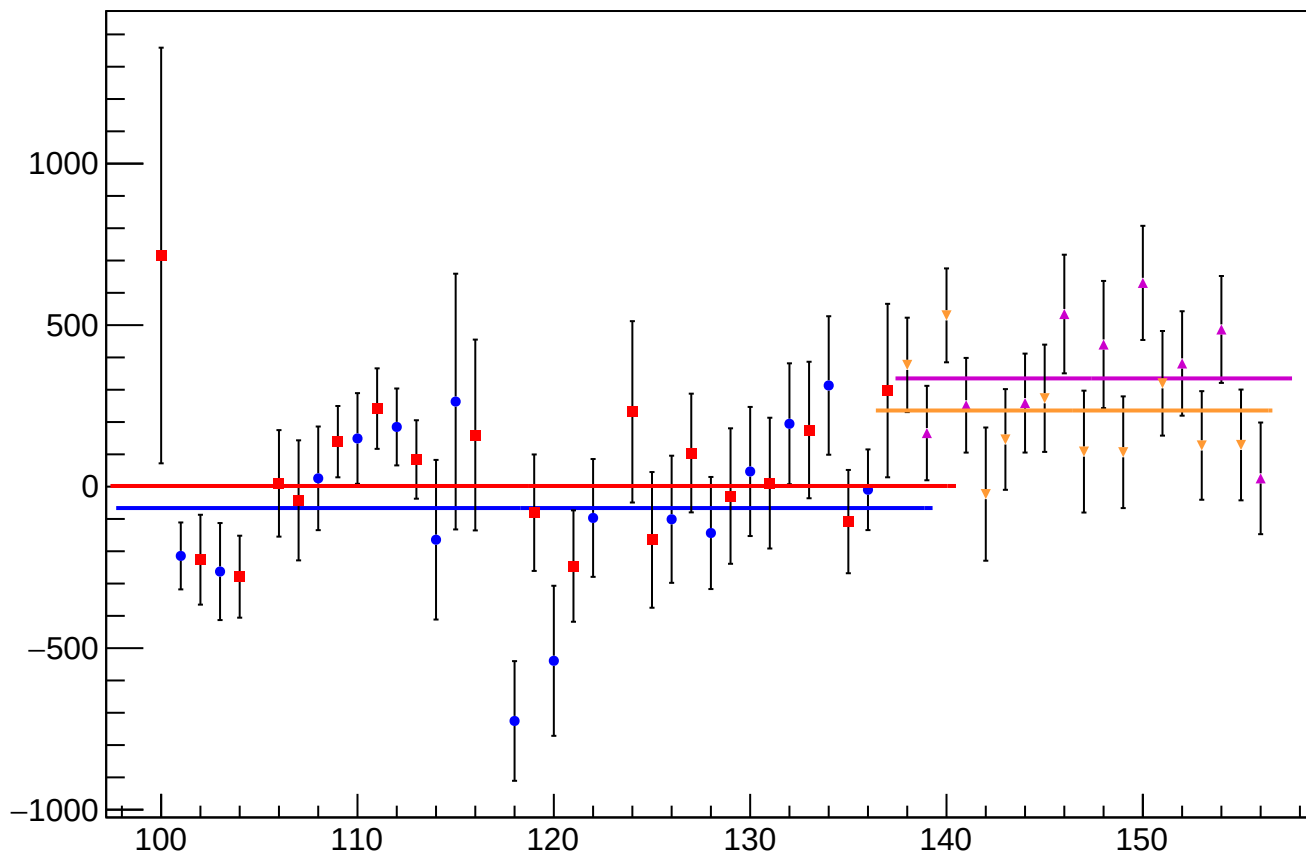
Right: 548.348 $\pm$ 0.116 χ^2 /NDF: 6775564.7/34

In: 671.557 $\pm$ 0.138 χ^2 /NDF: 6385513.3/24

Out: 687.160 $\pm$ 0.137 χ^2 /NDF: 5316728.9/28

All: 679.409 $\pm$ 0.097 χ^2 /NDF: 11708657.5/53

eigen_cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 ± 40.937 $\chi^2/\text{NDF}: 34.4/15$

Left Out: 235.742 ± 52.401 $\chi^2/\text{NDF}: 9.1/9$

Right Out: 2.062 ± 38.937 $\chi^2/\text{NDF}: 21.1/18$

Left In: 335.058 ± 54.901 $\chi^2/\text{NDF}: 10.3/8$

Left: 283.088 ± 37.906 $\chi^2/\text{NDF}: 21.1/18$

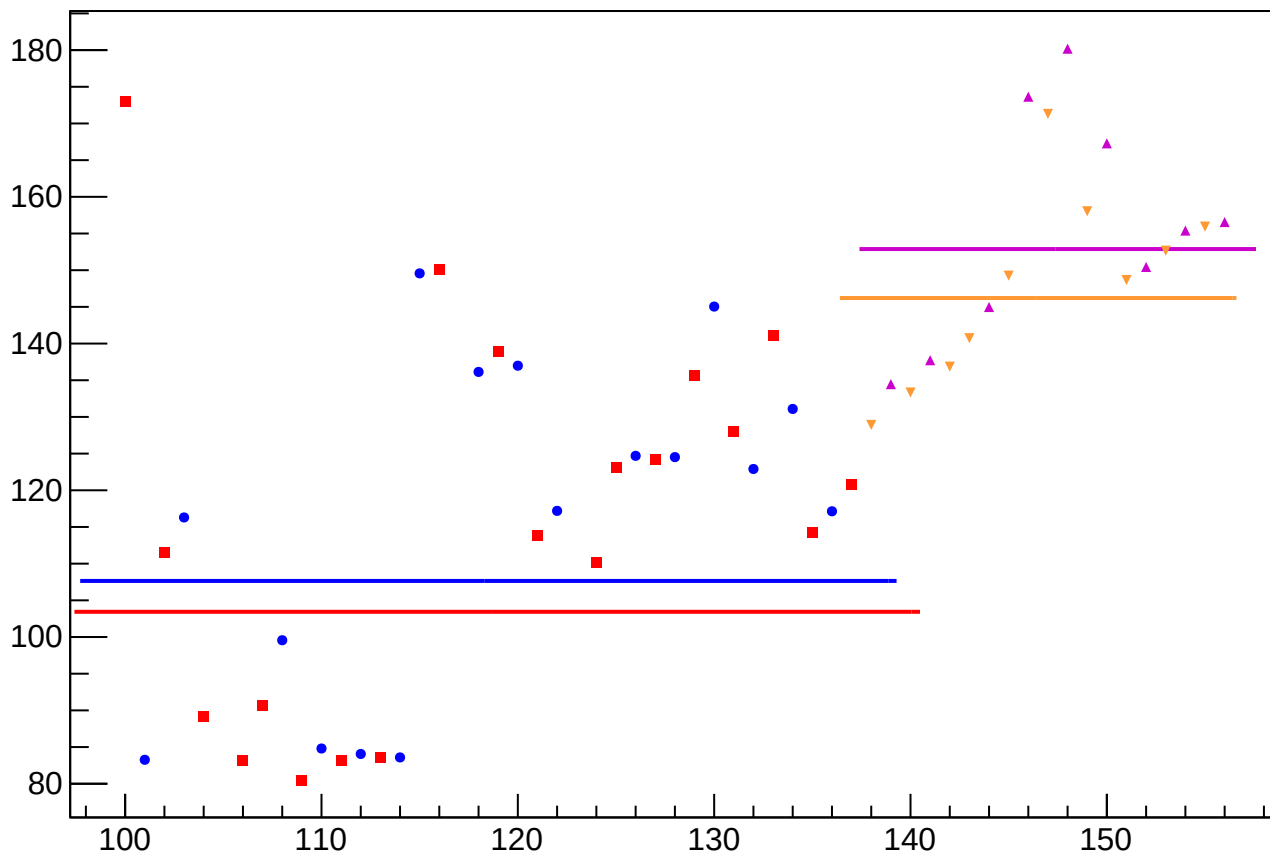
Right: -30.387 ± 28.213 $\chi^2/\text{NDF}: 57.0/34$

In: 77.145 ± 32.818 $\chi^2/\text{NDF}: 79.0/24$

Out: 85.186 ± 31.253 $\chi^2/\text{NDF}: 43.0/28$

All: 81.362 ± 22.632 $\chi^2/\text{NDF}: 122.1/53$

eigen_cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532822.8/15

Left Out: 146.206 $\pm$ 0.037 χ^2 /NDF:105583.2/9

Right Out: 103.438 $\pm$ 0.028 χ^2 /NDF: 624750.2/18

Left In: 152.882 $\pm$ 0.039 χ^2 /NDF:137656.4/8

Left: 149.389 $\pm$ 0.027 χ^2 /NDF: 258716.6/18

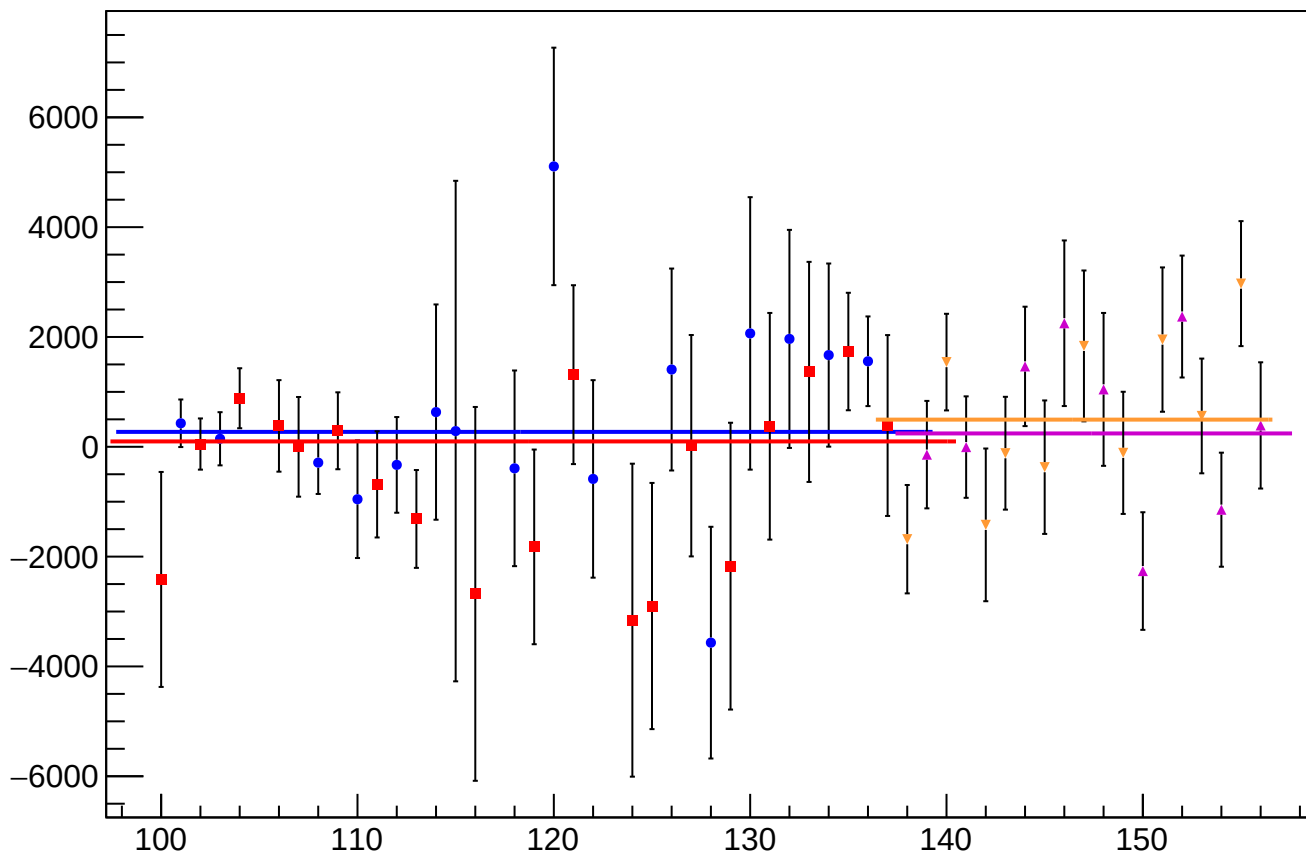
Right: 105.436 $\pm$ 0.020 χ^2 /NDF: 1168660.2/34

In: 123.809 $\pm$ 0.023 χ^2 /NDF:1543195.2/24

Out: 118.651 $\pm$ 0.022 χ^2 /NDF:1588678.4/28

All: 121.104 $\pm$ 0.016 χ^2 /NDF: 3157781.8/53

asym_sam6_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645 $\pm$ 230.655 χ^2 /NDF: 16.5/15

Left Out: 494.880 $\pm$ 352.123 χ^2 /NDF:16.3/9

Right Out: 97.847 $\pm$ 232.781 χ^2 /NDF: 16.1/18

Left In: 243.245 $\pm$ 367.999 χ^2 /NDF:14.5/8

Left: 374.607 $\pm$ 254.416 χ^2 /NDF: 31.1/18

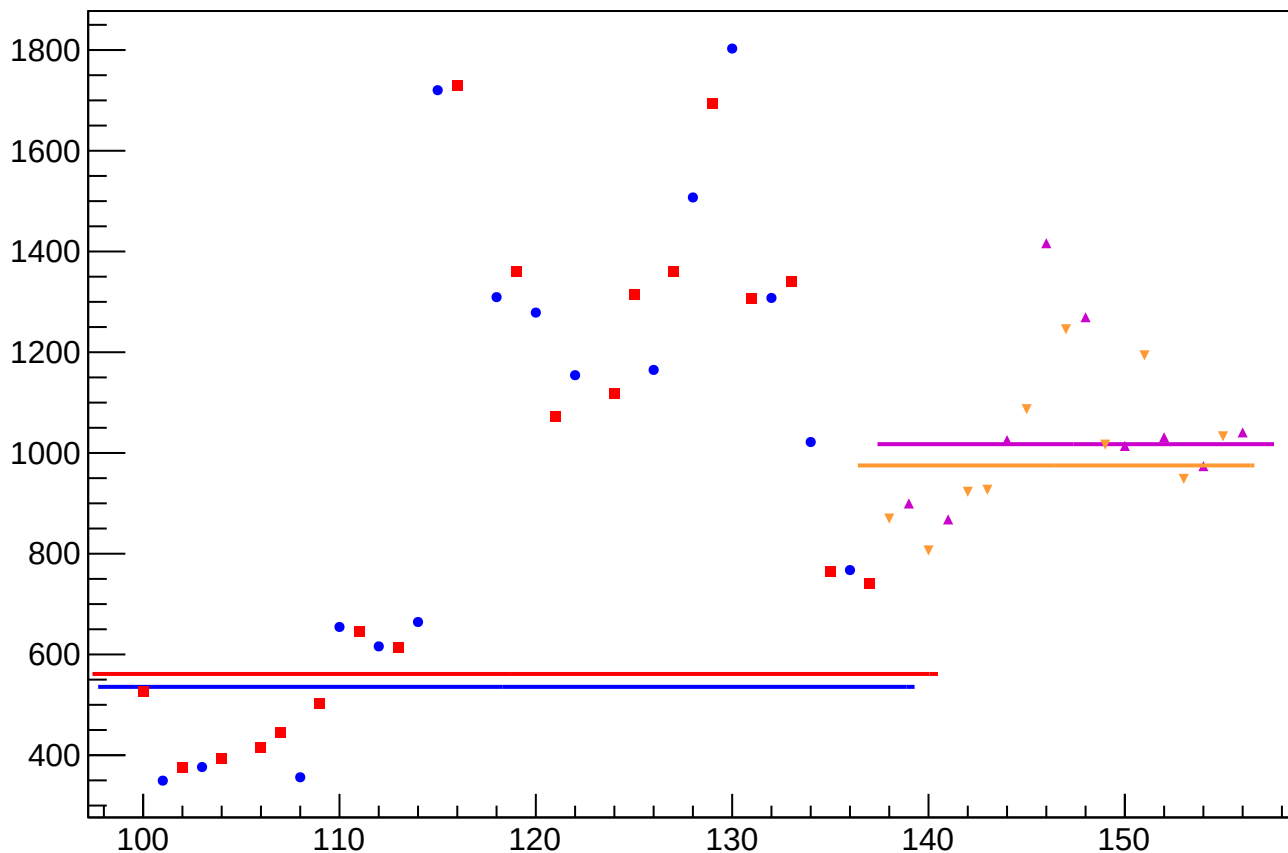
Right: 185.543 $\pm$ 163.844 χ^2 /NDF: 32.9/34

In: 263.635 $\pm$ 195.439 χ^2 /NDF:31.0/24

Out: 218.592 $\pm$ 194.185 χ^2 /NDF:33.3/28

All: 240.968 $\pm$ 137.751 χ^2 /NDF: 64.3/53

asym_sam6_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661 $\pm$ 0.163 χ^2 /NDF: 3632591.0/15

Left Out: 975.223 $\pm$ 0.249 χ^2 /NDF: 262525.7/9

Right Out: 561.270 $\pm$ 0.165 χ^2 /NDF: 3130760.7/18

Left In: 1017.472 $\pm$ 0.260 χ^2 /NDF: 291522.0/8

Left: 995.416 $\pm$ 0.180 χ^2 /NDF: 567809.2/18

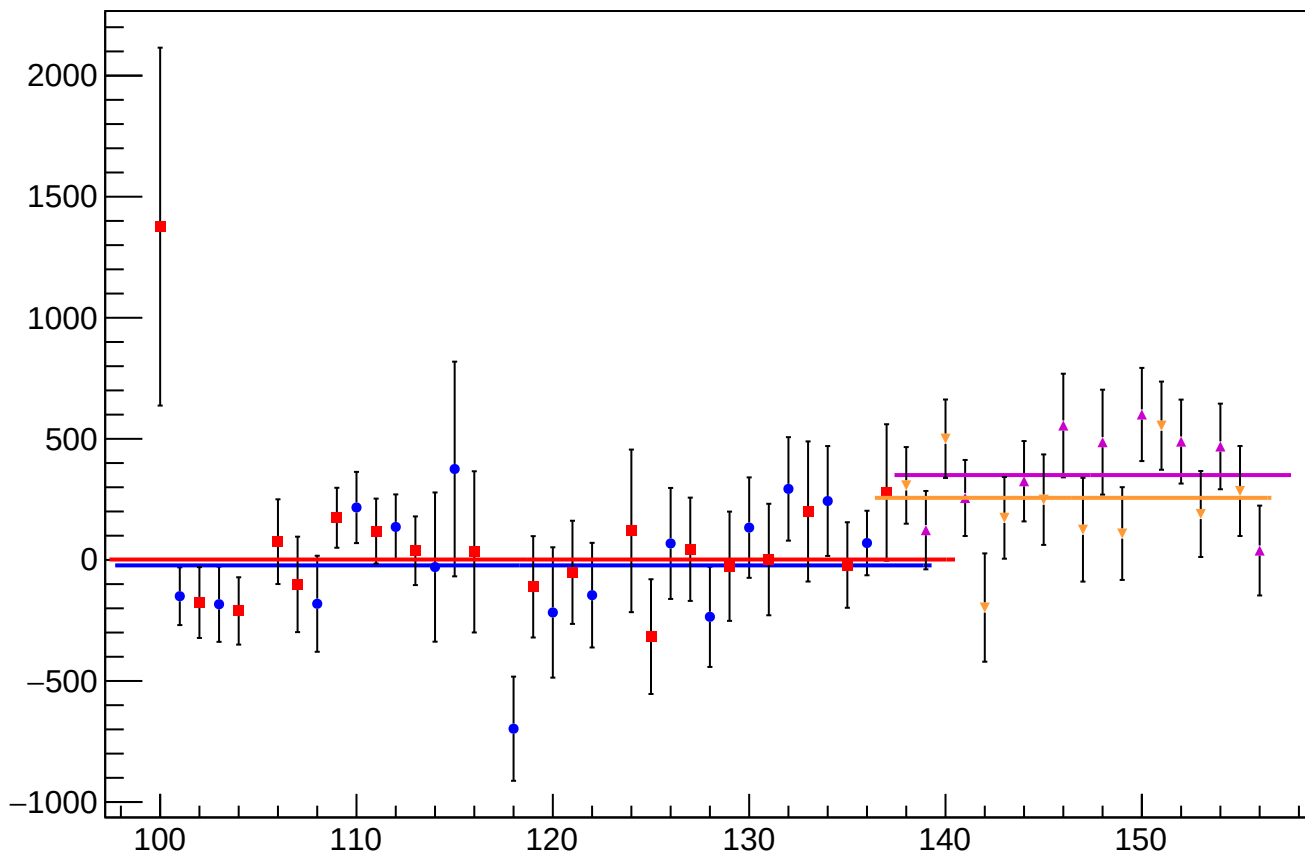
Right: 548.348 $\pm$ 0.116 χ^2 /NDF: 6775564.7/34

In: 671.557 $\pm$ 0.138 χ^2 /NDF: 6385513.3/24

Out: 687.160 $\pm$ 0.137 χ^2 /NDF: 5316728.9/28

All: 679.409 $\pm$ 0.097 χ^2 /NDF: 11708657.5/53

dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.678 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 256.285 ± 57.568 χ^2/NDF : 10.5/9

Right Out: 1.600 ± 43.563 χ^2/NDF : 14.3/18

Left In: 350.372 ± 59.817 χ^2/NDF : 9.3/8

Left: 301.527 ± 41.479 χ^2/NDF : 21.1/18

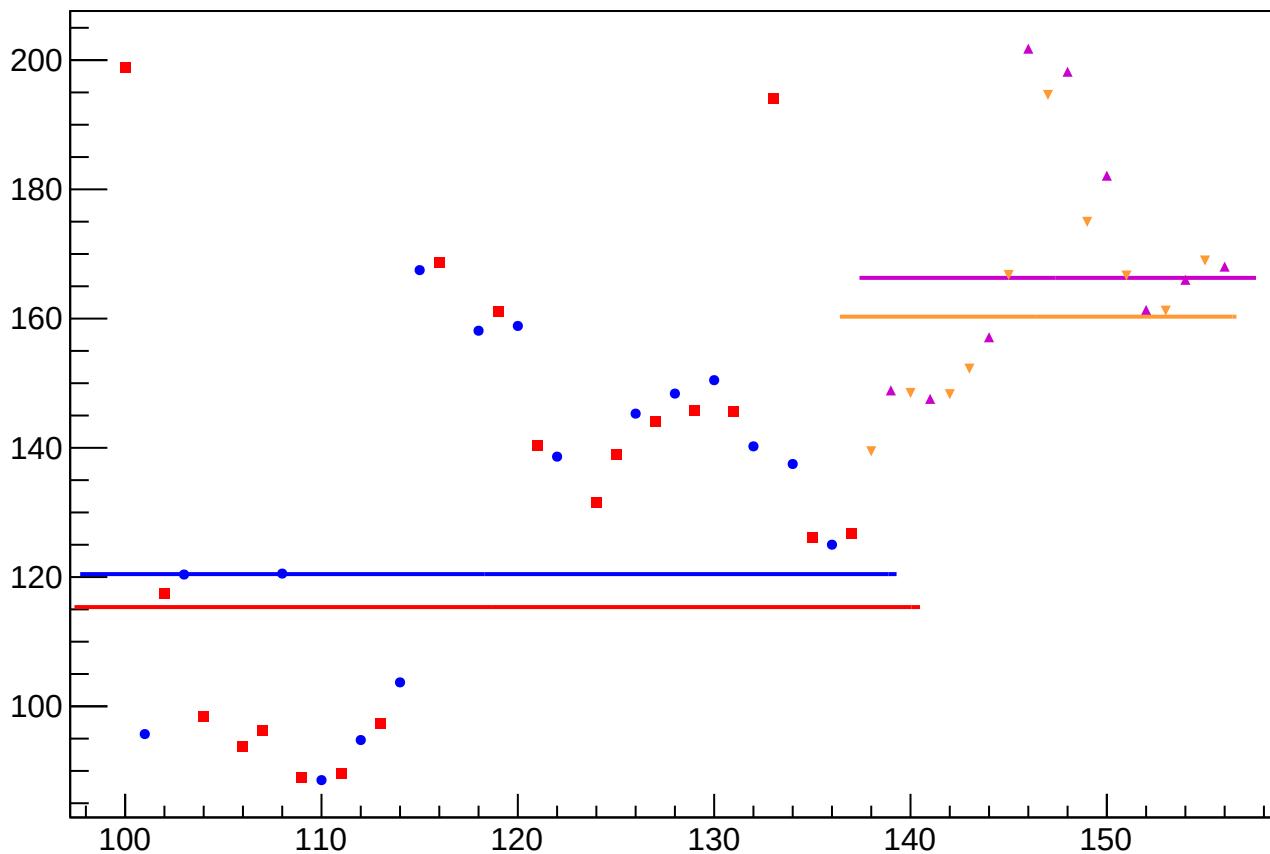
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 115.606 ± 36.419 χ^2/NDF : 57.9/24

Out: 94.336 ± 34.738 χ^2/NDF : 37.3/28

All: 104.469 ± 25.137 χ^2/NDF : 95.4/53

dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458 $\pm$ 0.032 χ^2 /NDF: 530331.6/15

Left Out: 160.298 $\pm$ 0.041 χ^2 /NDF:127918.6/9

Right Out: 115.357 $\pm$ 0.031 χ^2 /NDF: 767236.0/18

Left In: 166.302 $\pm$ 0.042 χ^2 /NDF:171326.1/8

Left: 163.185 $\pm$ 0.029 χ^2 /NDF: 309705.5/18

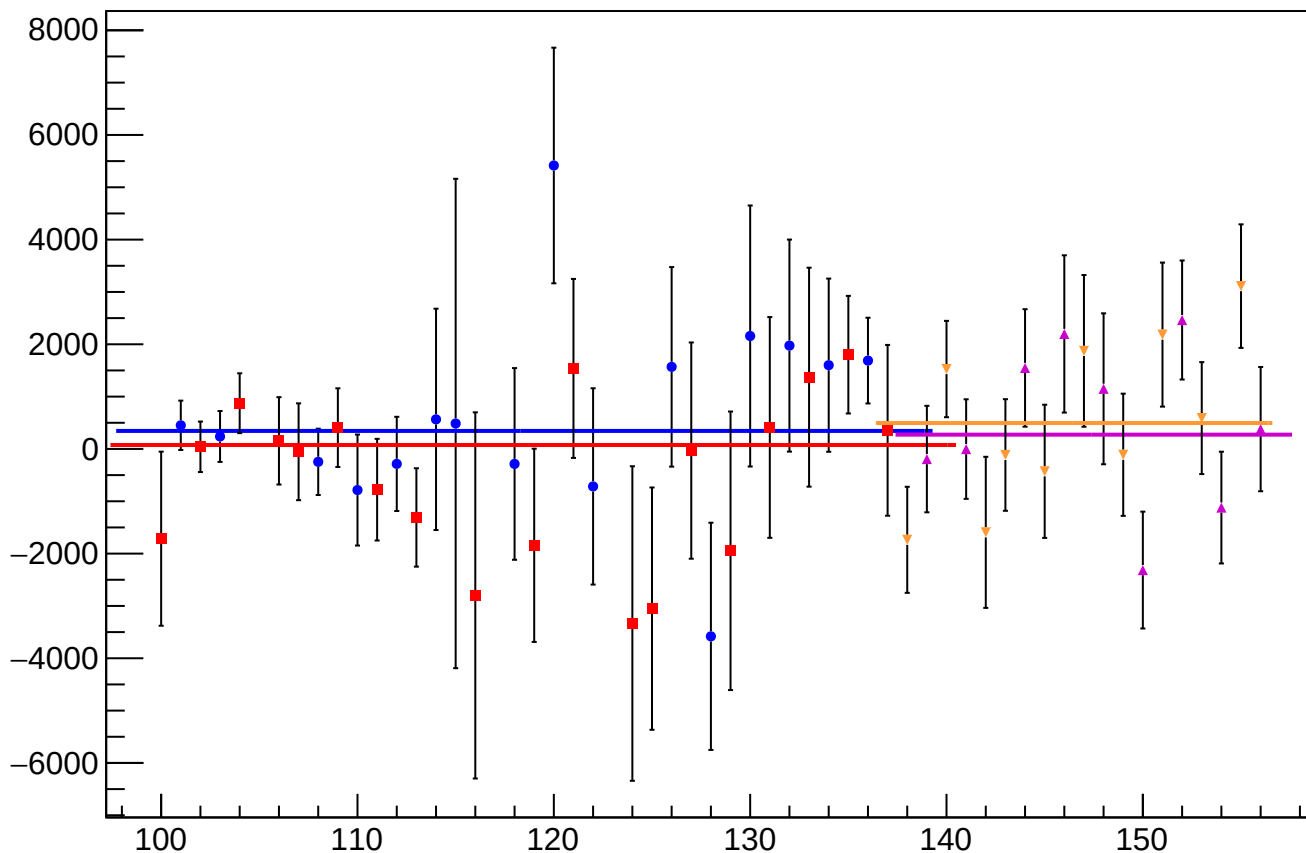
Right: 117.774 $\pm$ 0.022 χ^2 /NDF: 1310562.3/34

In: 137.452 $\pm$ 0.026 χ^2 /NDF:1440935.0/24

Out: 131.721 $\pm$ 0.025 χ^2 /NDF:1670190.7/28

All: 134.451 $\pm$ 0.018 χ^2 /NDF: 3137057.1/53

asym_sam6_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.437 $\pm$ 241.532 χ^2 /NDF: 16.2/15

Left Out: 494.952 $\pm$ 366.136 χ^2 /NDF:16.7/9

Right Out: 75.434 $\pm$ 240.479 χ^2 /NDF: 15.3/18

Left In: 273.142 $\pm$ 379.325 χ^2 /NDF:14.4/8

Left: 387.970 $\pm$ 263.437 χ^2 /NDF: 31.2/18

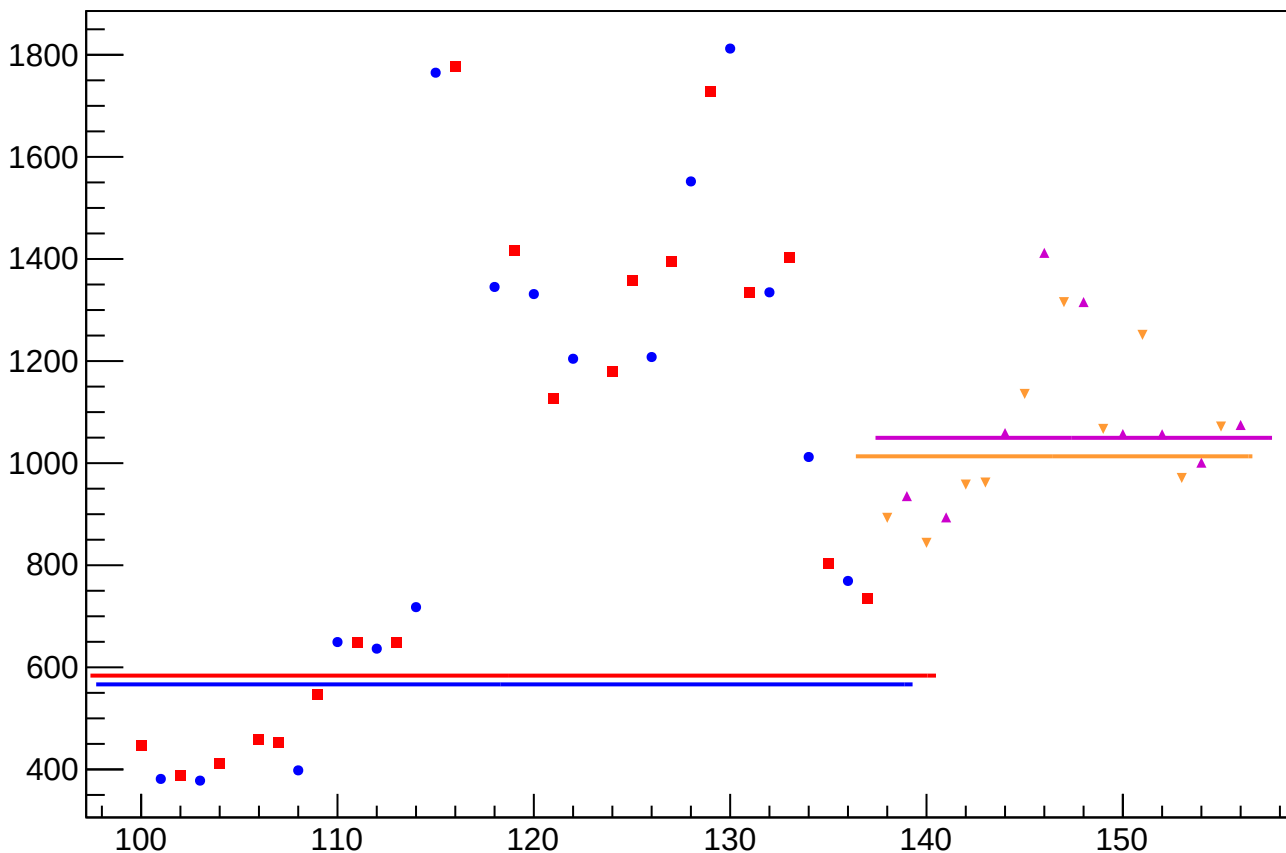
Right: 209.348 $\pm$ 170.415 χ^2 /NDF: 32.1/34

In: 323.870 $\pm$ 203.736 χ^2 /NDF:30.7/24

Out: 201.868 $\pm$ 201.001 χ^2 /NDF:32.8/28

All: 262.044 $\pm$ 143.086 χ^2 /NDF: 63.7/53

asym_sam6_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603 $\pm$ 0.171 χ^2/NDF : 3432440.2/15

Left Out: 1013.395 $\pm$ 0.259 χ^2/NDF : 281006.2/9

Right Out: 583.794 $\pm$ 0.170 χ^2/NDF : 3107513.6/18

Left In: 1049.622 $\pm$ 0.268 χ^2/NDF : 268543.0/8

Left: 1030.867 $\pm$ 0.186 χ^2/NDF : 558992.6/18

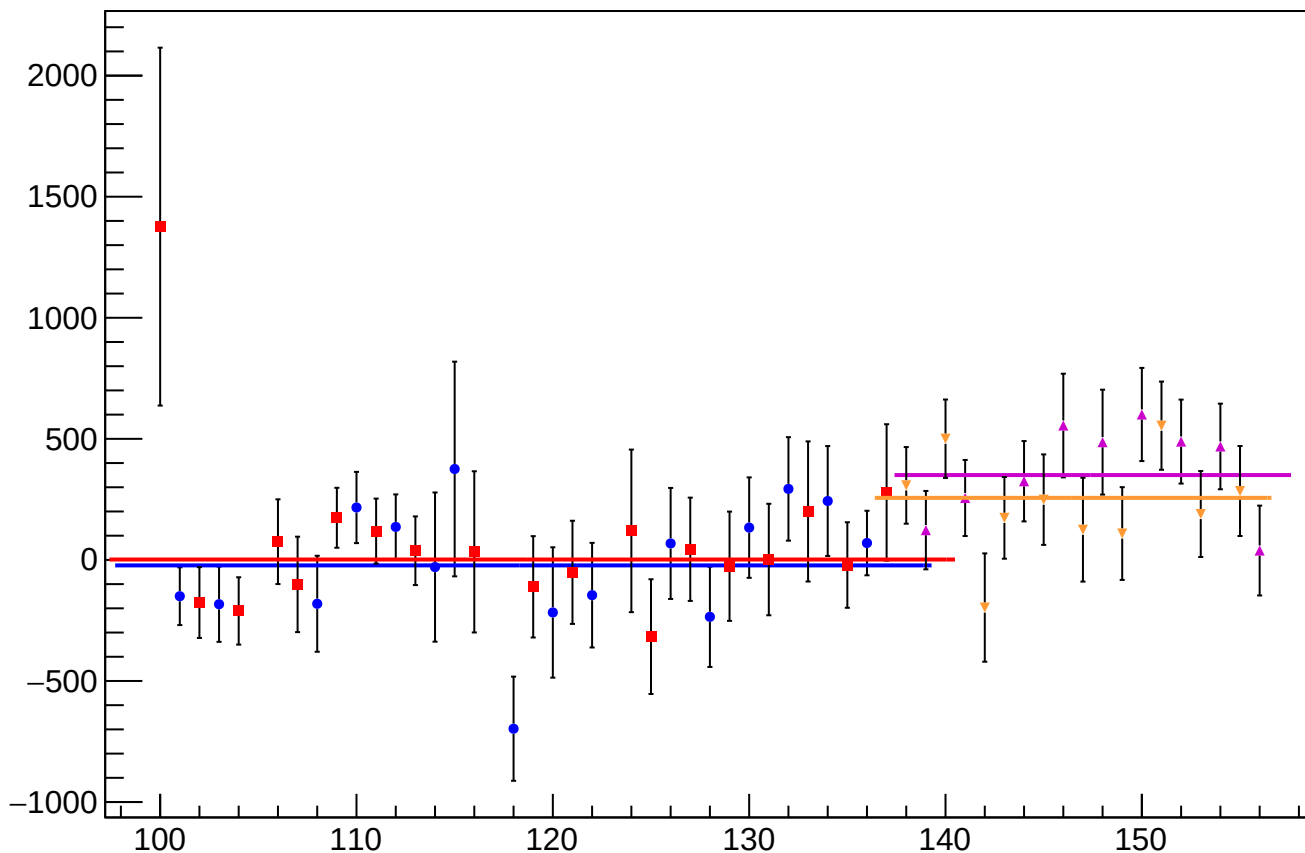
Right: 575.236 $\pm$ 0.121 χ^2/NDF : 6545041.6/34

In: 705.943 $\pm$ 0.144 χ^2/NDF : 6008374.3/24

Out: 713.267 $\pm$ 0.142 χ^2/NDF : 5312135.4/28

All: 709.655 $\pm$ 0.101 χ^2/NDF : 11321819.2/53

eigen_dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.680 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 256.287 ± 57.568 χ^2/NDF : 10.5/9

Right Out: 1.601 ± 43.563 χ^2/NDF : 14.3/18

Left In: 350.372 ± 59.817 χ^2/NDF : 9.3/8

Left: 301.528 ± 41.479 χ^2/NDF : 21.1/18

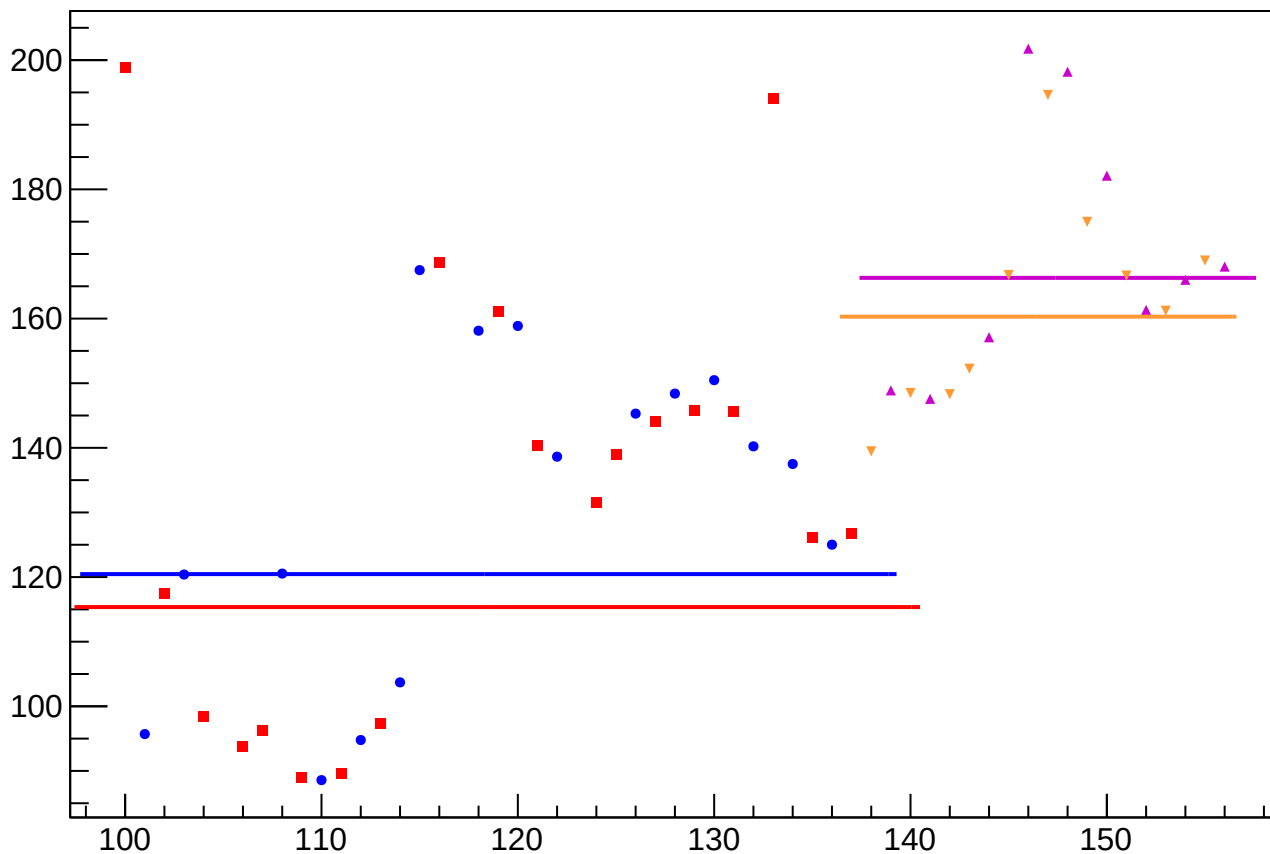
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 115.604 ± 36.419 χ^2/NDF : 57.9/24

Out: 94.338 ± 34.738 χ^2/NDF : 37.3/28

All: 104.469 ± 25.137 χ^2/NDF : 95.4/53

eigen_dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458 $\pm$ 0.032 χ^2 /NDF: 530335.0/15

Left Out: 160.298 $\pm$ 0.041 χ^2 /NDF: 127917.8/9

Right Out: 115.357 $\pm$ 0.031 χ^2 /NDF: 767234.8/18

Left In: 166.302 $\pm$ 0.042 χ^2 /NDF: 171326.3/8

Left: 163.185 $\pm$ 0.029 χ^2 /NDF: 309705.2/18

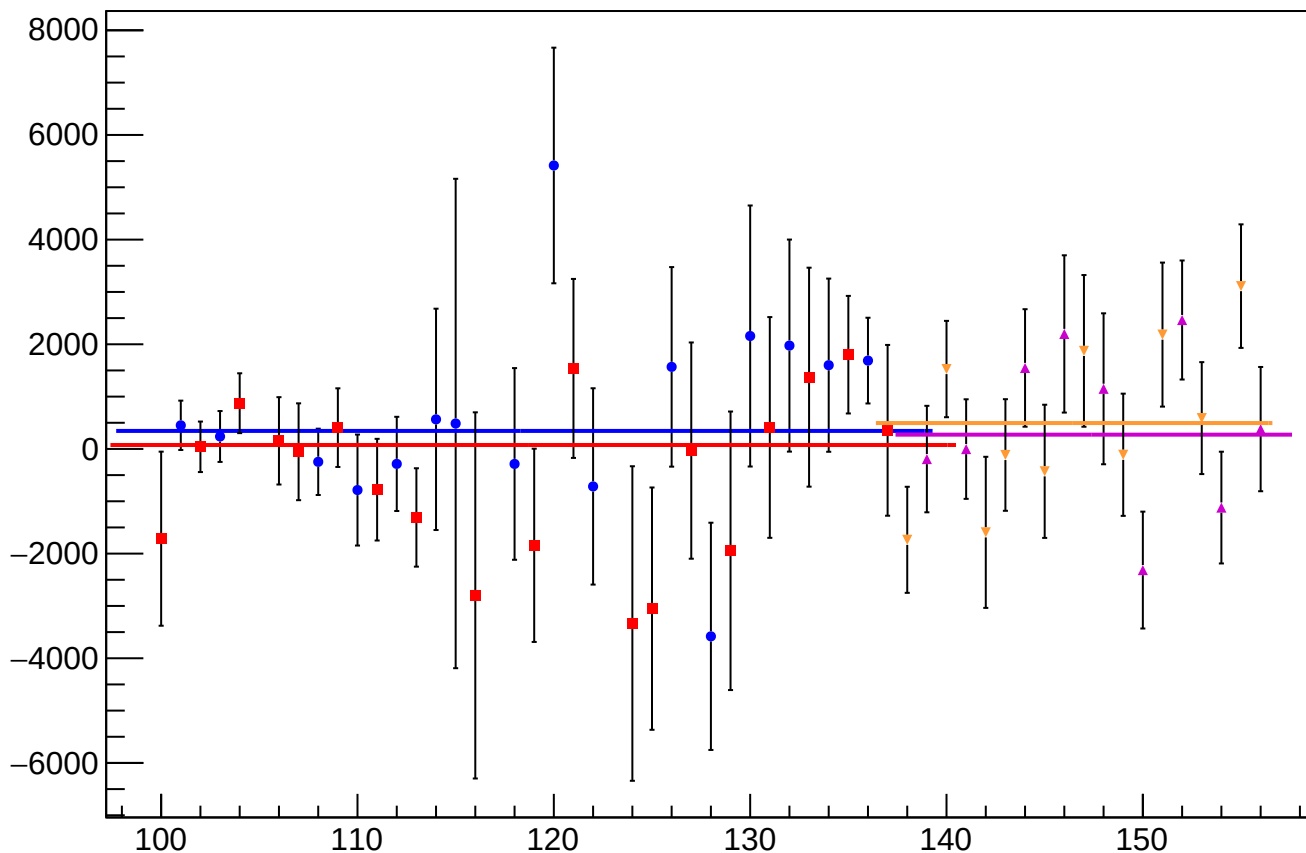
Right: 117.774 $\pm$ 0.022 χ^2 /NDF: 1310564.2/34

In: 137.451 $\pm$ 0.026 χ^2 /NDF: 1440945.2/24

Out: 131.721 $\pm$ 0.025 χ^2 /NDF: 1670190.8/28

All: 134.451 $\pm$ 0.018 χ^2 /NDF: 3137067.2/53

asym_sam6_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.436+/-241.531 χ^2/NDF : 16.2/15

Left Out: 494.952+/-366.135 χ^2/NDF : 16.7/9

Right Out: 75.435+/-240.479 χ^2/NDF : 15.3/18

Left In: 273.142+/-379.326 χ^2/NDF : 14.4/8

Left: 387.971+/-263.437 χ^2/NDF : 31.2/18

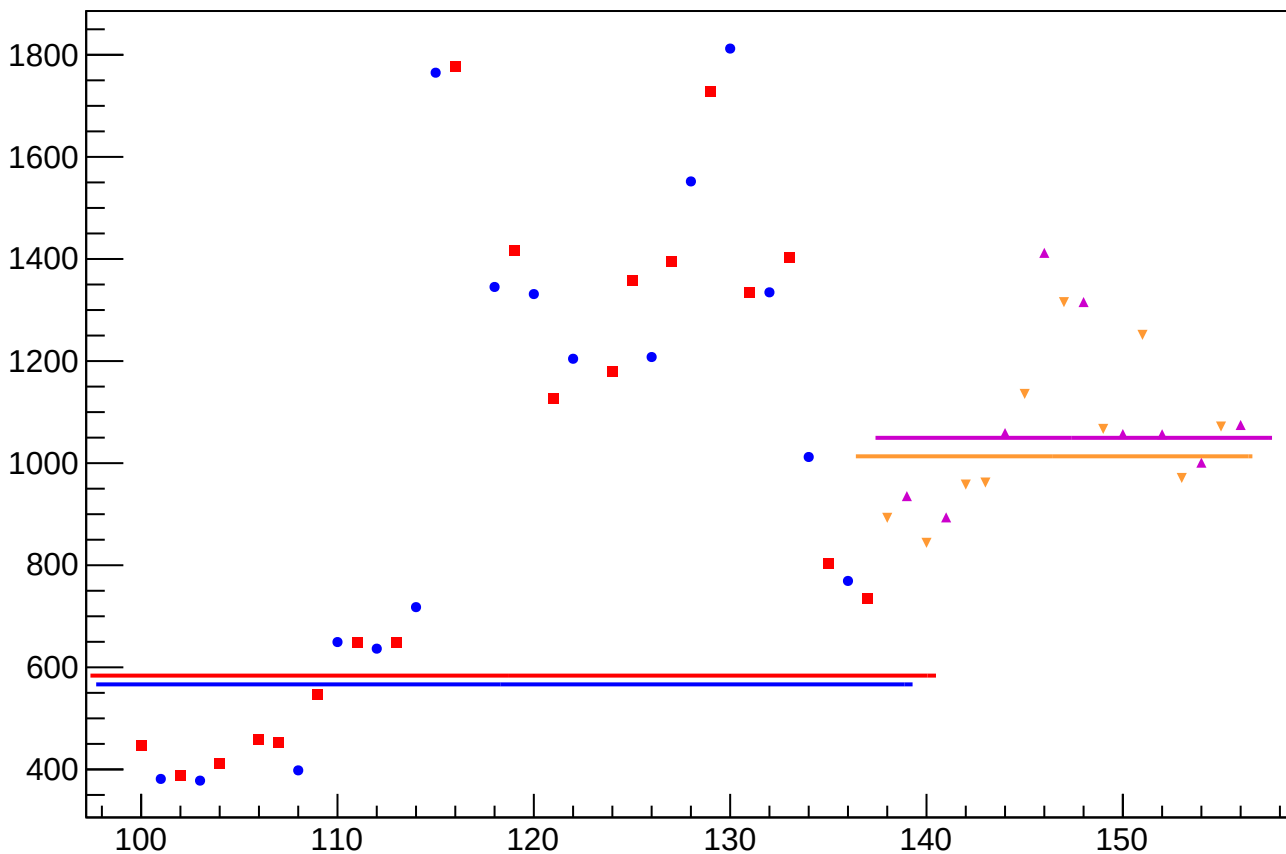
Right: 209.348+/-170.415 χ^2/NDF : 32.1/34

In: 323.869+/-203.736 χ^2/NDF : 30.7/24

Out: 201.869+/-201.001 χ^2/NDF : 32.8/28

All: 262.045+/-143.086 χ^2/NDF : 63.7/53

asym_sam6_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603 $\pm$ 0.171 χ^2 /NDF: 3432444.7/15

Left Out: 1013.395 $\pm$ 0.259 χ^2 /NDF: 281006.7/9

Right Out: 583.794 $\pm$ 0.170 χ^2 /NDF: 3107513.8/18

Left In: 1049.622 $\pm$ 0.268 χ^2 /NDF: 268543.3/8

Left: 1030.867 $\pm$ 0.186 χ^2 /NDF: 558993.6/18

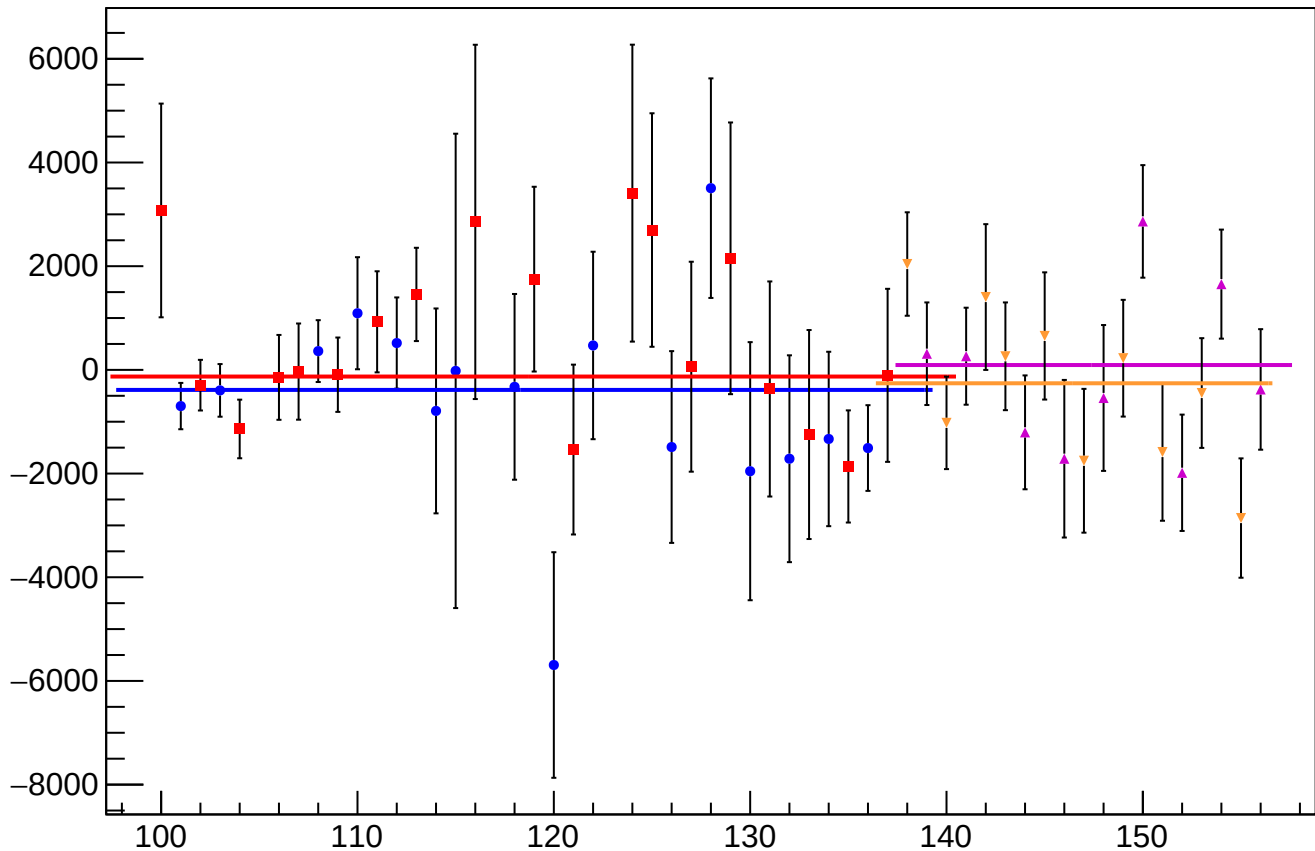
Right: 575.236 $\pm$ 0.121 χ^2 /NDF: 6545046.5/34

In: 705.943 $\pm$ 0.144 χ^2 /NDF: 6008388.9/24

Out: 713.266 $\pm$ 0.142 χ^2 /NDF: 5312139.1/28

All: 709.654 $\pm$ 0.101 χ^2 /NDF: 11321837.5/53

asym_sam6_mean vs Slug, Sign Corrected



Right In: -386.522 ± 237.525 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -258.556 ± 356.156 $\chi^2/\text{NDF}: 15.7/9$

Right Out: -128.583 ± 238.241 $\chi^2/\text{NDF}: 19.4/18$

Left In: 93.490 ± 372.222 $\chi^2/\text{NDF}: 15.4/8$

Left: -90.295 ± 257.333 $\chi^2/\text{NDF}: 31.6/18$

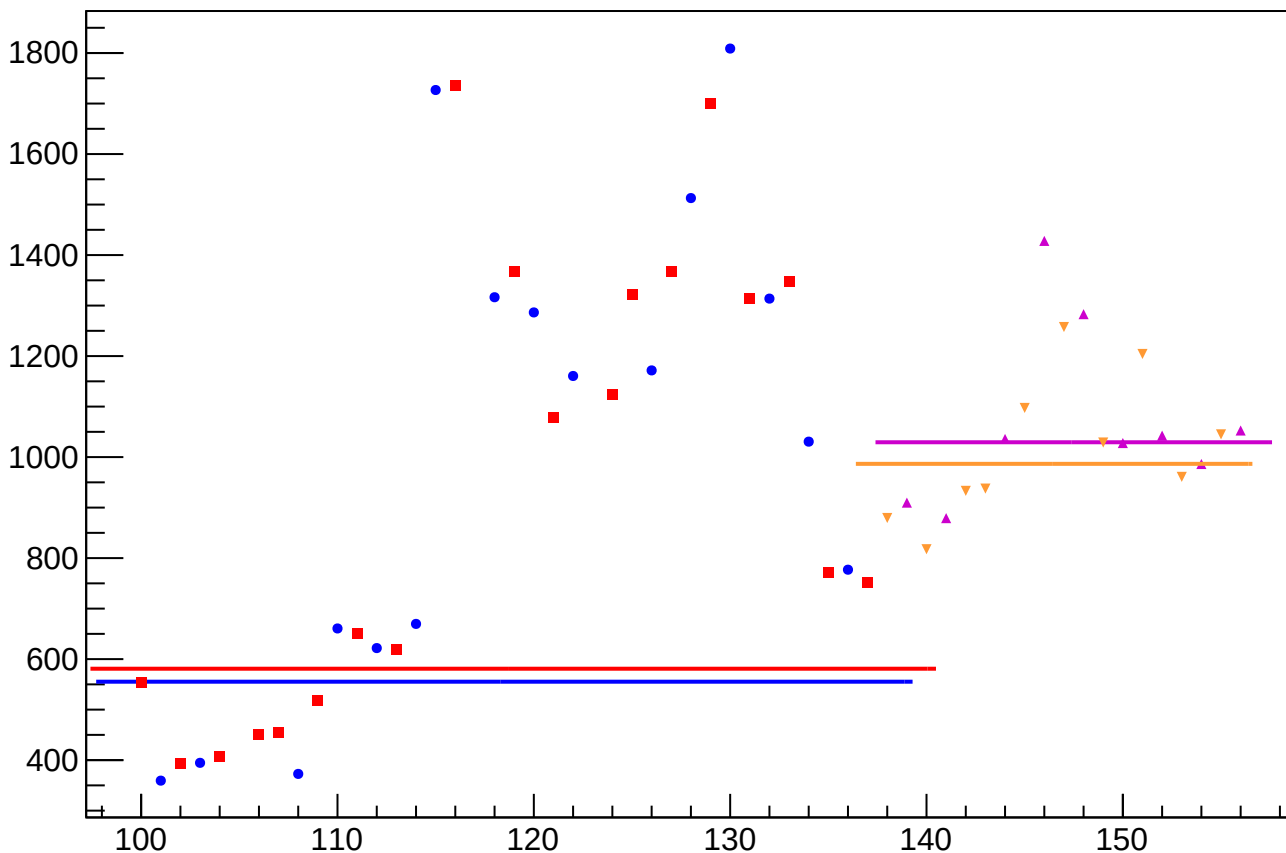
Right: -257.941 ± 168.208 $\chi^2/\text{NDF}: 37.9/34$

In: -247.621 ± 200.230 $\chi^2/\text{NDF}: 34.5/24$

Out: -168.762 ± 198.022 $\chi^2/\text{NDF}: 35.2/28$

All: -207.754 ± 140.797 $\chi^2/\text{NDF}: 69.8/53$

asym_sam6_rms vs Slug, Sign Corrected



Right In: 555.292+/-0.168

χ^2/NDF : 3482531.0/15

Left Out: 986.629+/-0.252

χ^2/NDF : 257918.9/9

Right Out: 580.996+/-0.168

χ^2/NDF : 2983560.8/18

Left In: 1029.366+/-0.263

χ^2/NDF : 287837.1/8

Left: 1007.055+/-0.182

χ^2/NDF : 559520.5/18

Right: 568.105+/-0.119

χ^2/NDF : 6477767.0/34

In: 692.475+/-0.142

χ^2/NDF : 6075846.0/24

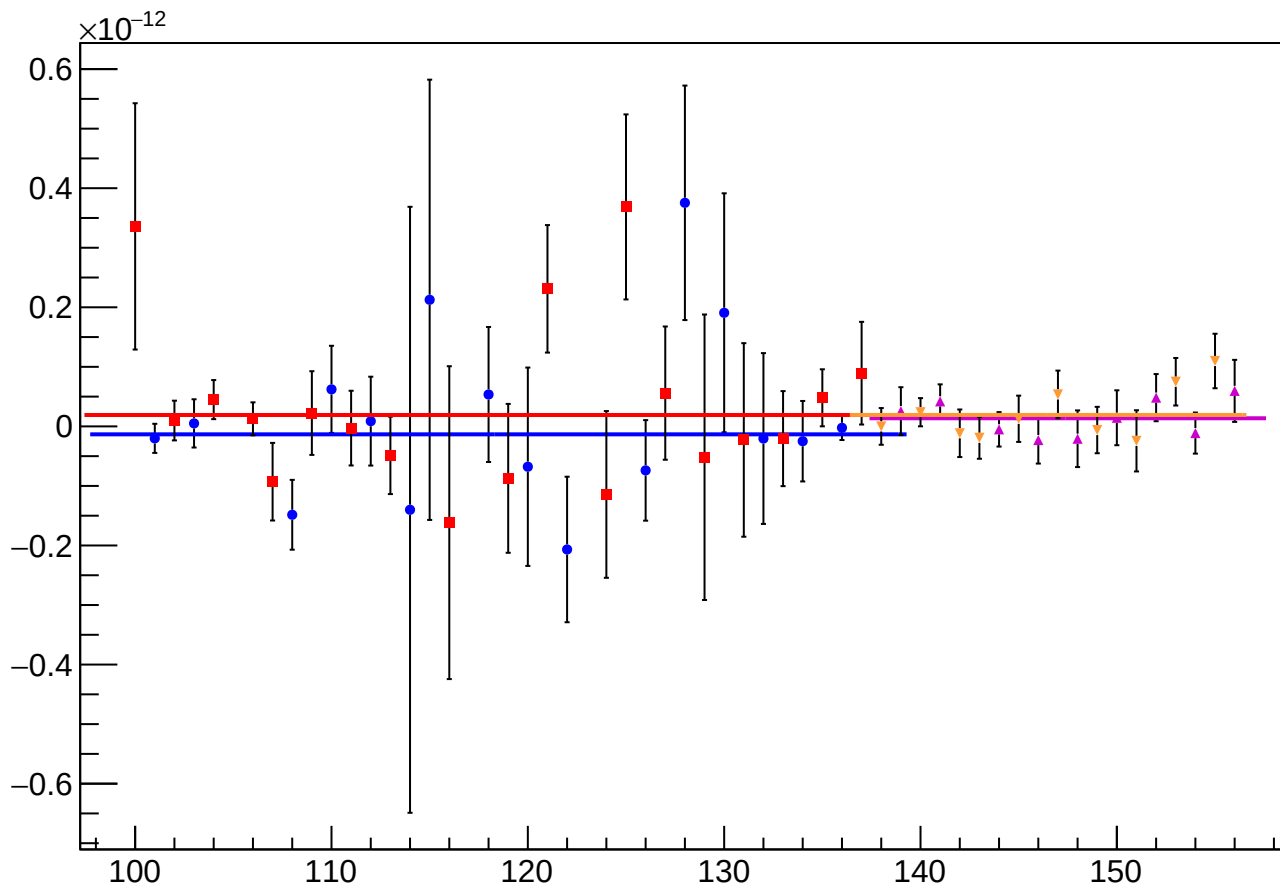
Out: 706.390+/-0.140

χ^2/NDF : 5033775.9/28

All: 699.510+/-0.100

χ^2/NDF : 11114504.9/53

asym_sam6_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 :10.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.9/18

Left In: 0.000+/-0.000 χ^2/NDF :4.9/8

Left: 0.000+/-0.000 χ^2/NDF : 15.0/18

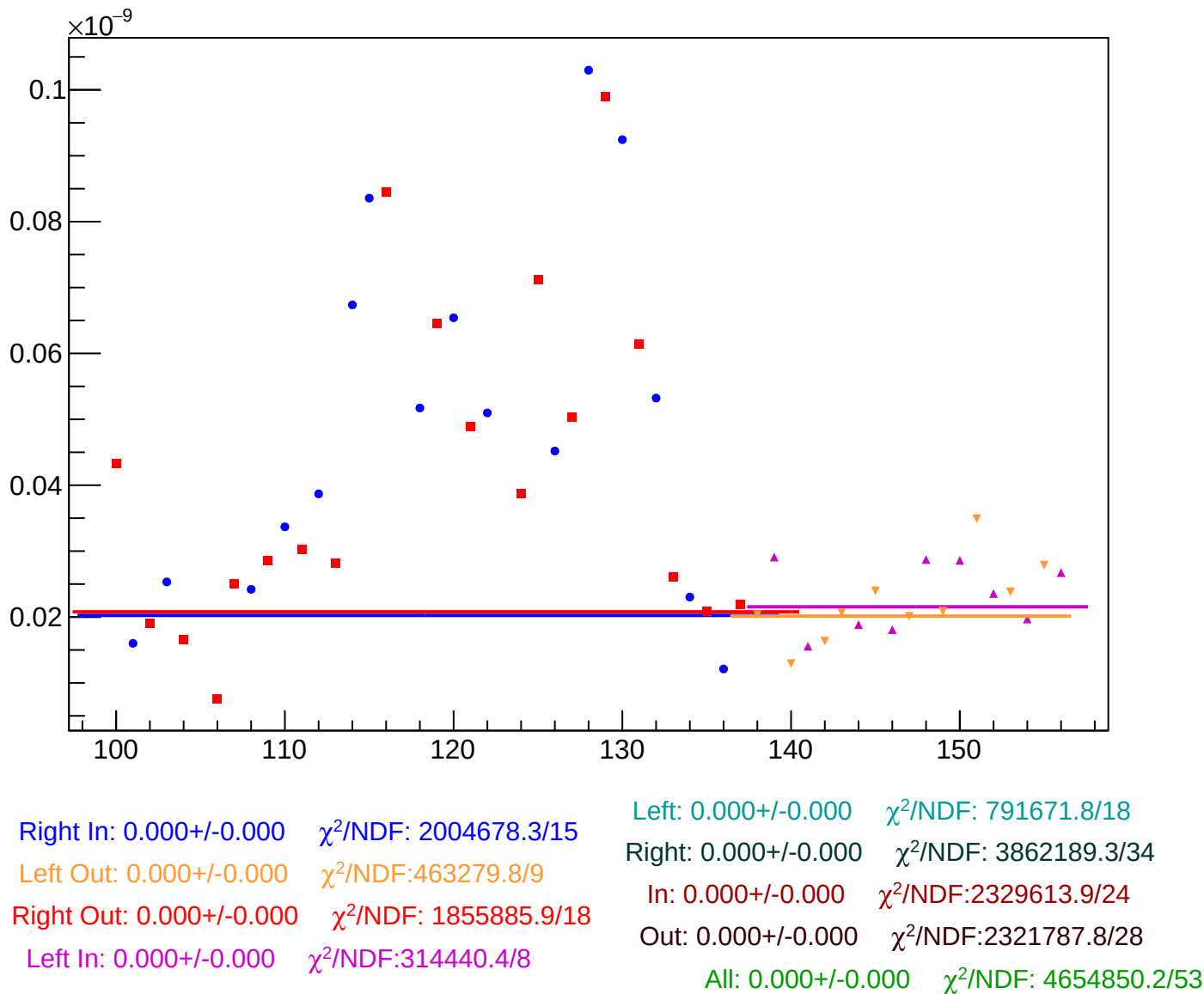
Right: 0.000+/-0.000 χ^2/NDF : 38.7/34

In: 0.000+/-0.000 χ^2/NDF :23.1/24

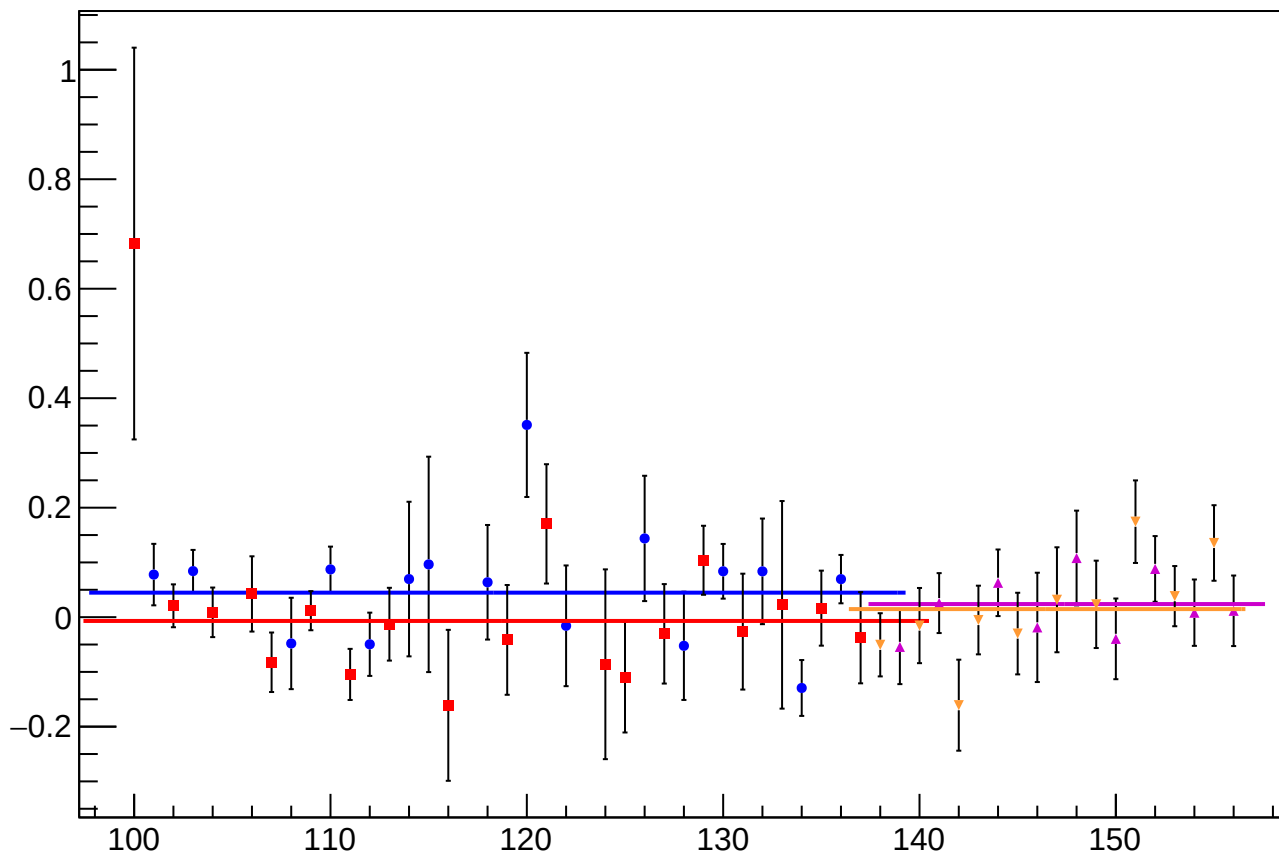
Out: 0.000+/-0.000 χ^2/NDF :29.9/28

All: 0.000+/-0.000 χ^2/NDF : 55.1/53

asym_sam6_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_sam6_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 $\chi^2/\text{NDF}: 26.6/15$

Left Out: 0.015 ± 0.022 $\chi^2/\text{NDF}: 14.2/9$

Right Out: -0.007 ± 0.015 $\chi^2/\text{NDF}: 20.2/18$

Left In: 0.024 ± 0.022 $\chi^2/\text{NDF}: 4.9/8$

Left: 0.019 ± 0.016 $\chi^2/\text{NDF}: 19.1/18$

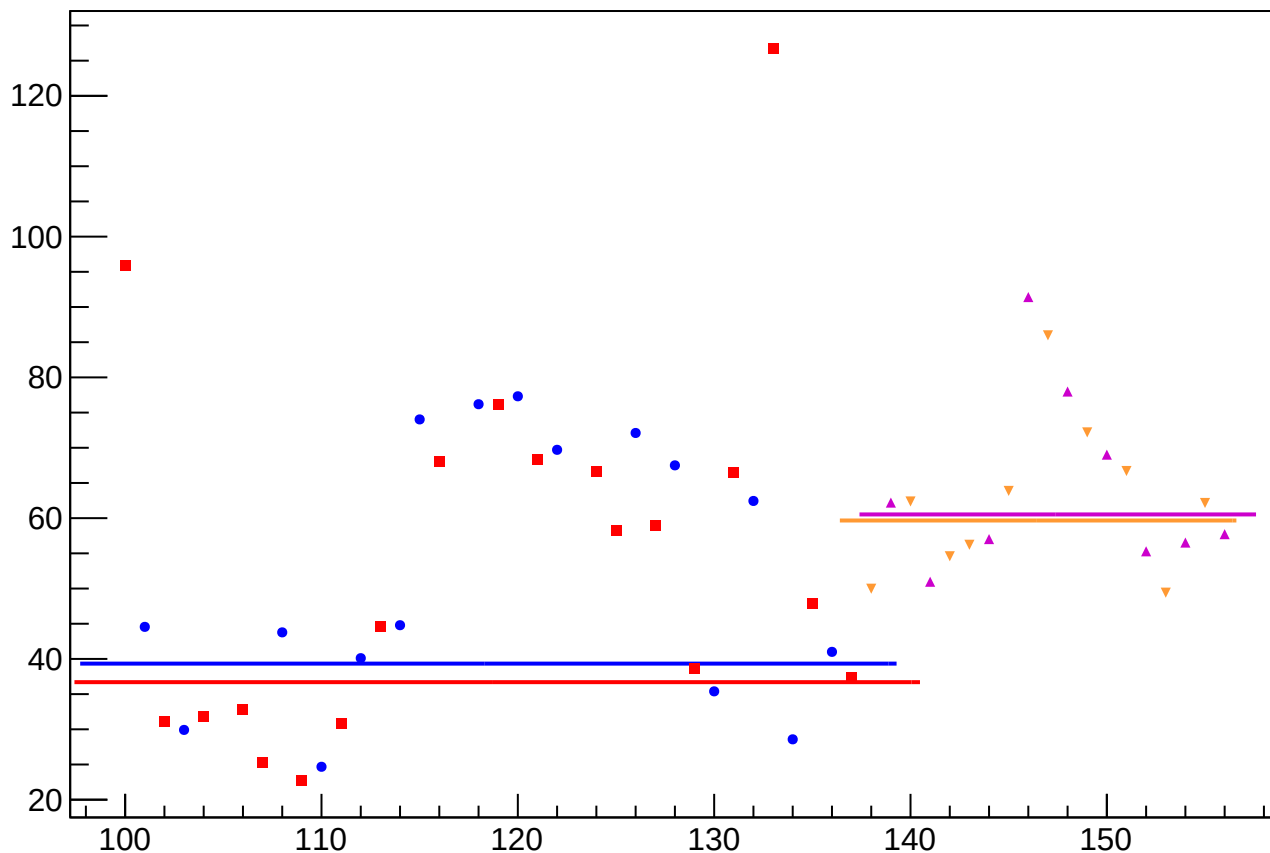
Right: 0.017 ± 0.011 $\chi^2/\text{NDF}: 52.3/34$

In: 0.038 ± 0.013 $\chi^2/\text{NDF}: 32.0/24$

Out: 0.000 ± 0.012 $\chi^2/\text{NDF}: 35.0/28$

All: 0.018 ± 0.009 $\chi^2/\text{NDF}: 71.4/53$

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: 59.669+/-0.016 χ^2/NDF : 368709.9/9

Right Out: 36.700+/-0.011 χ^2/NDF : 2096756.0/18

Left In: 60.530+/-0.016 χ^2/NDF : 395870.7/8

Left: 60.095+/-0.011 χ^2/NDF : 766102.3/18

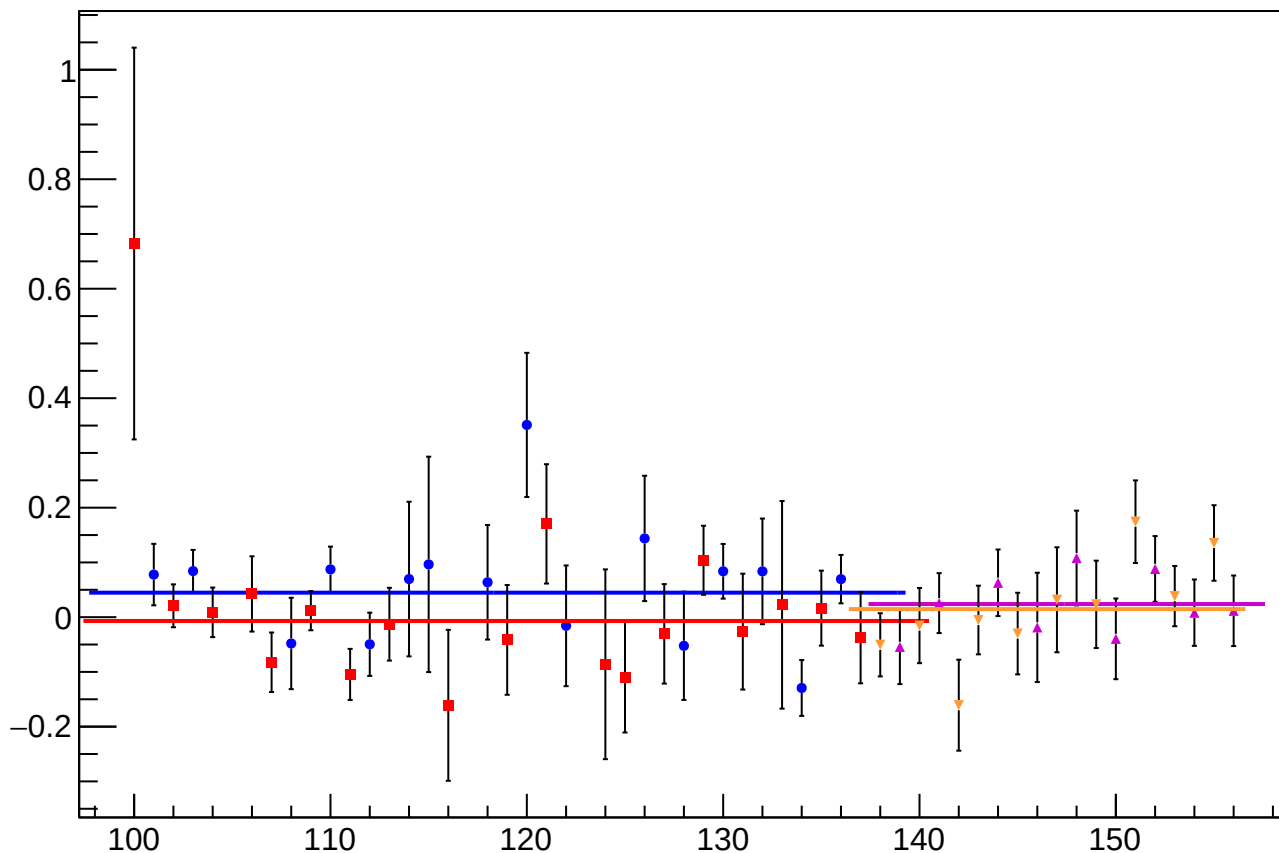
Right: 37.940+/-0.008 χ^2/NDF : 3691907.9/34

In: 46.593+/-0.009 χ^2/NDF : 3161022.2/24

Out: 44.080+/-0.009 χ^2/NDF : 3950264.4/28

All: 45.283+/-0.006 χ^2/NDF : 7150291.5/53

asym_sam6_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: 0.015 $\pm$ 0.022 χ^2 /NDF:14.2/9

Right Out: -0.007 $\pm$ 0.015 χ^2 /NDF: 20.2/18

Left In: 0.024 $\pm$ 0.022 χ^2 /NDF:4.9/8

Left: 0.019 $\pm$ 0.016 χ^2 /NDF: 19.1/18

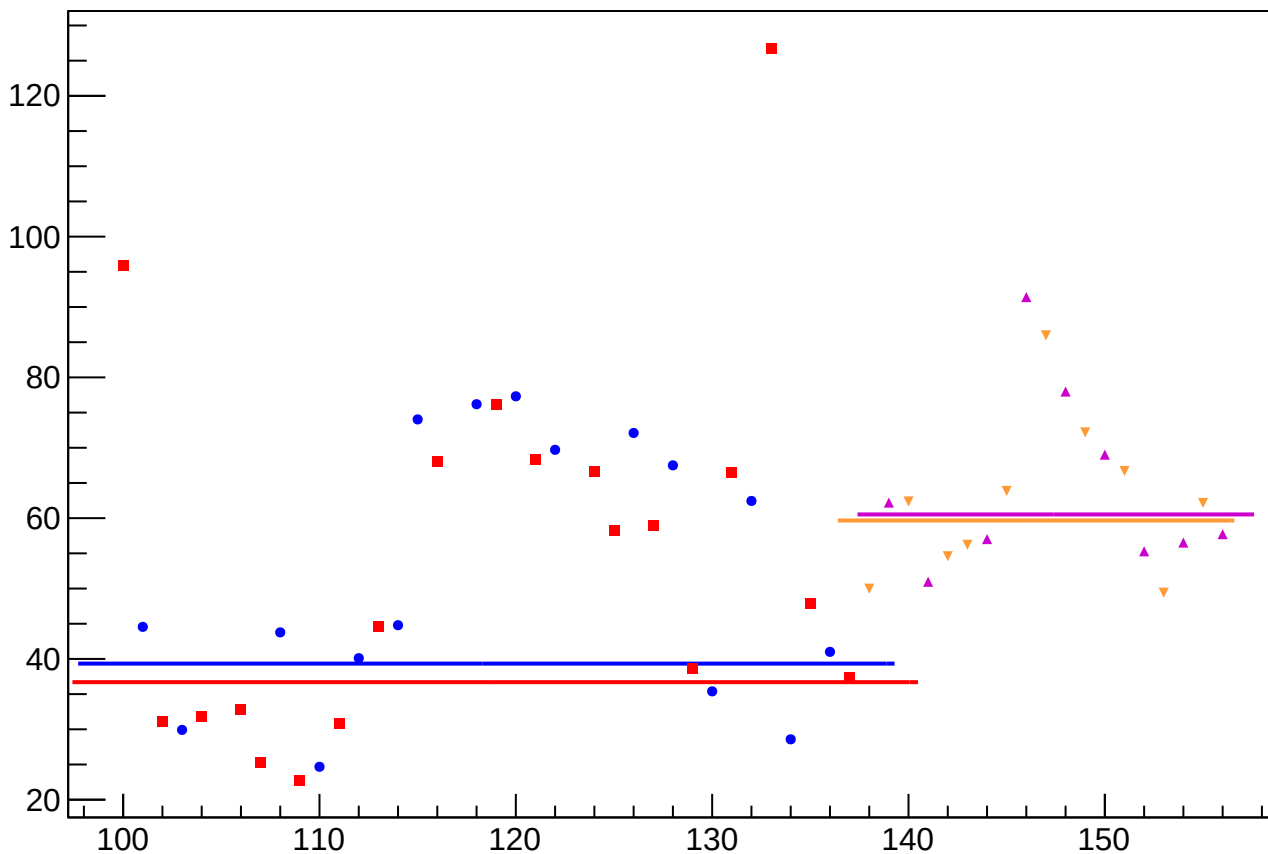
Right: 0.017 $\pm$ 0.011 χ^2 /NDF: 52.3/34

In: 0.038 $\pm$ 0.013 χ^2 /NDF:32.0/24

Out: 0.000 $\pm$ 0.012 χ^2 /NDF:35.0/28

All: 0.018 $\pm$ 0.009 χ^2 /NDF: 71.4/53

asym_sam6_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.335 ± 0.011 $\chi^2/\text{NDF}: 1566525.1/15$

Left Out: 59.669 ± 0.016 $\chi^2/\text{NDF}: 368709.9/9$

Right Out: 36.700 ± 0.011 $\chi^2/\text{NDF}: 2096756.0/18$

Left In: 60.530 ± 0.016 $\chi^2/\text{NDF}: 395870.7/8$

Left: 60.095 ± 0.011 $\chi^2/\text{NDF}: 766102.3/18$

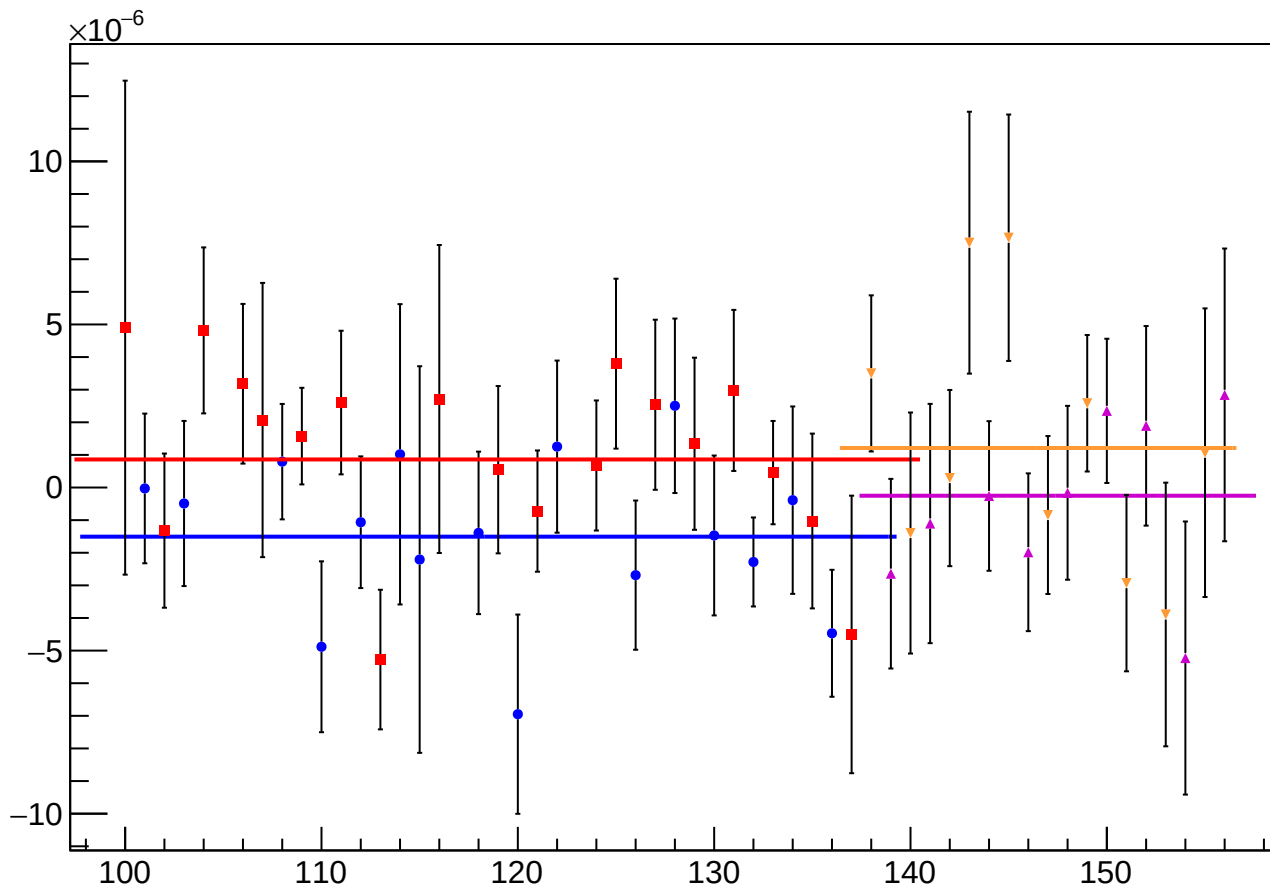
Right: 37.940 ± 0.008 $\chi^2/\text{NDF}: 3691907.9/34$

In: 46.593 ± 0.009 $\chi^2/\text{NDF}: 3161022.2/24$

Out: 44.080 ± 0.009 $\chi^2/\text{NDF}: 3950264.4/28$

All: 45.283 ± 0.006 $\chi^2/\text{NDF}: 7150291.5/53$

asym_sam6_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 12.0/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 19.1/18

Left In: -0.000 ± 0.000 χ^2/NDF : 5.0/8

Left: 0.000 ± 0.000 χ^2/NDF : 18.2/18

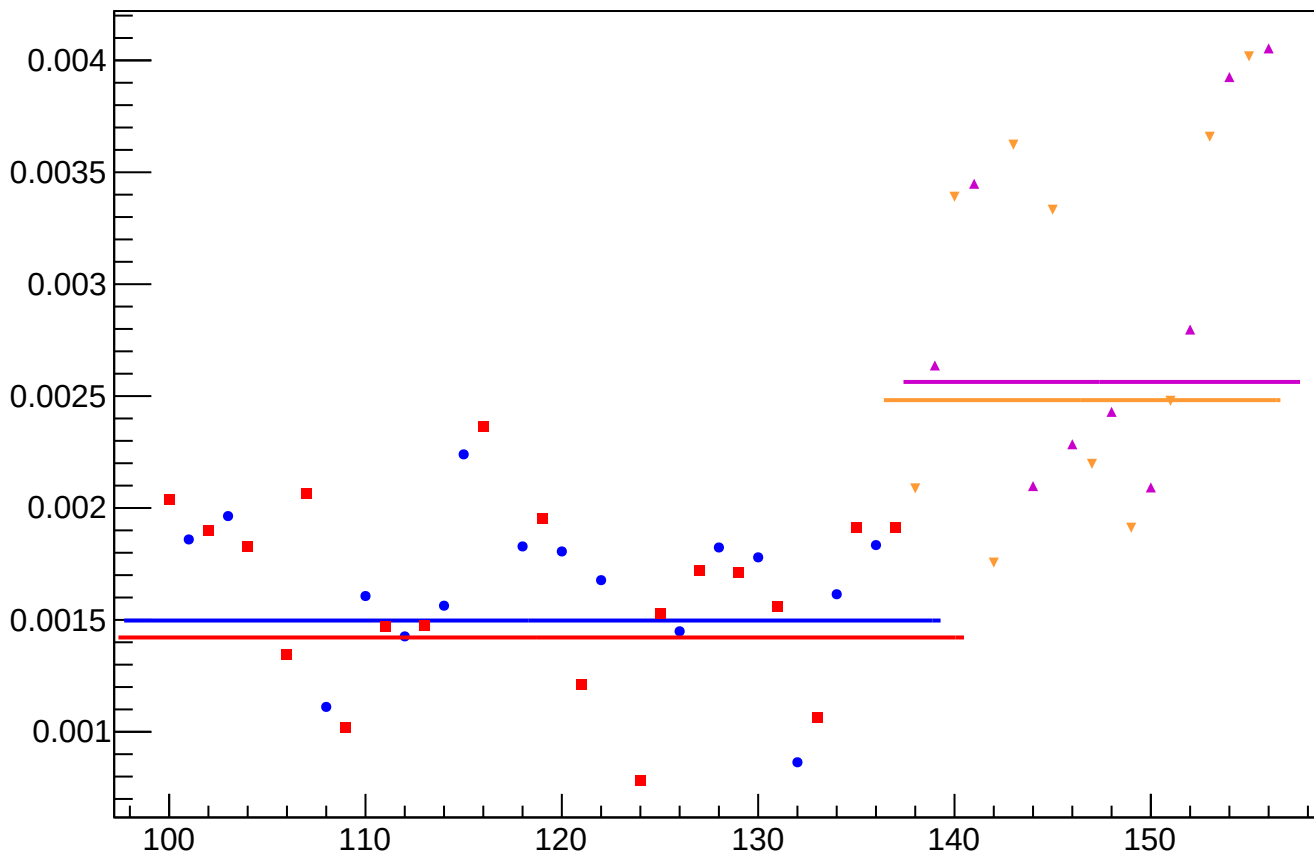
Right: -0.000 ± 0.000 χ^2/NDF : 41.9/34

In: -0.000 ± 0.000 χ^2/NDF : 20.2/24

Out: 0.000 ± 0.000 χ^2/NDF : 31.2/28

All: -0.000 ± 0.000 χ^2/NDF : 61.0/53

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 :1169437.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 998047.4/18

Left In: 0.003+/-0.000 χ^2/NDF :766523.2/8

Left: 0.003+/-0.000 χ^2/NDF : 1943493.6/18

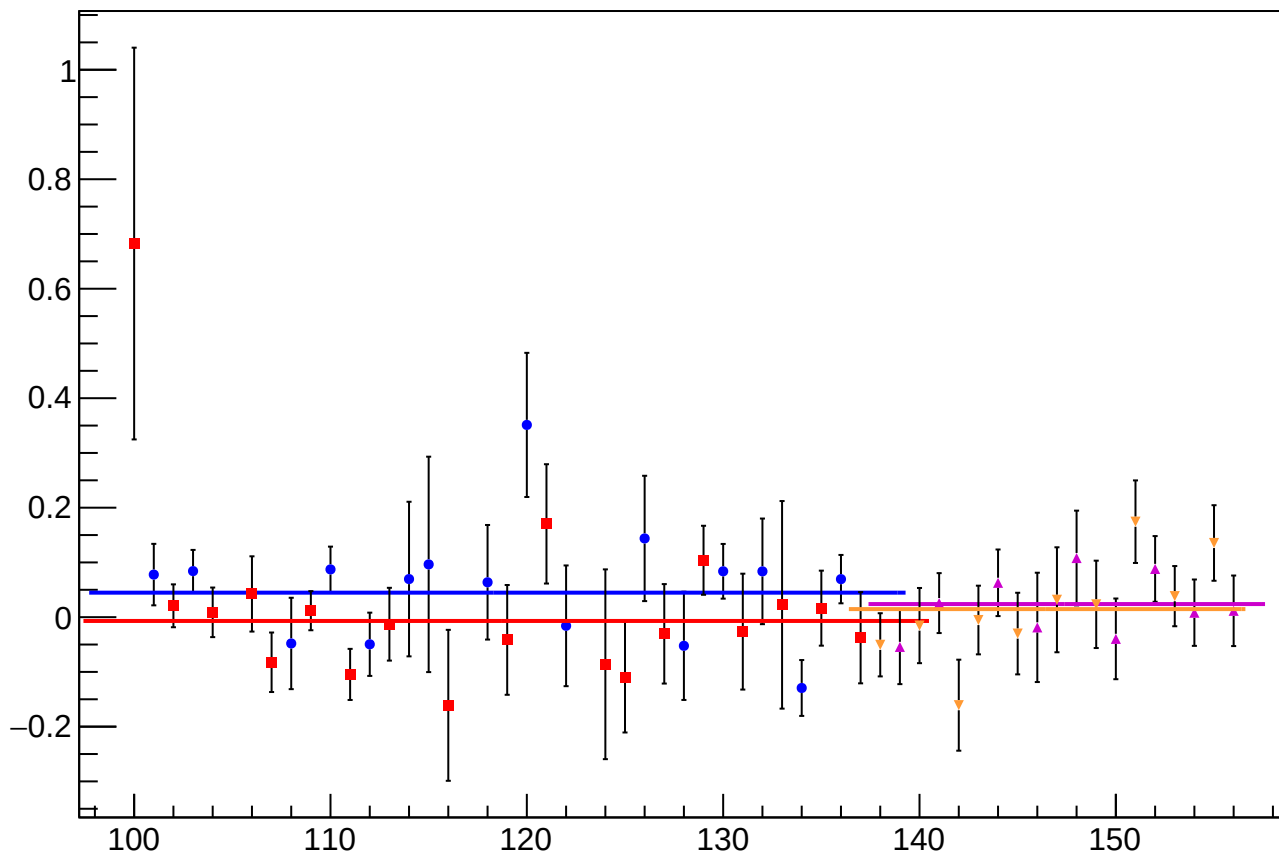
Right: 0.001+/-0.000 χ^2/NDF : 1883510.3/34

In: 0.002+/-0.000 χ^2/NDF :3472477.8/24

Out: 0.002+/-0.000 χ^2/NDF :4117087.7/28

All: 0.002+/-0.000 χ^2/NDF : 7628663.4/53

asym_sam6_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 $\chi^2/\text{NDF}: 26.6/15$

Left Out: 0.015 ± 0.022 $\chi^2/\text{NDF}: 14.2/9$

Right Out: -0.007 ± 0.015 $\chi^2/\text{NDF}: 20.2/18$

Left In: 0.024 ± 0.022 $\chi^2/\text{NDF}: 4.9/8$

Left: 0.019 ± 0.016 $\chi^2/\text{NDF}: 19.1/18$

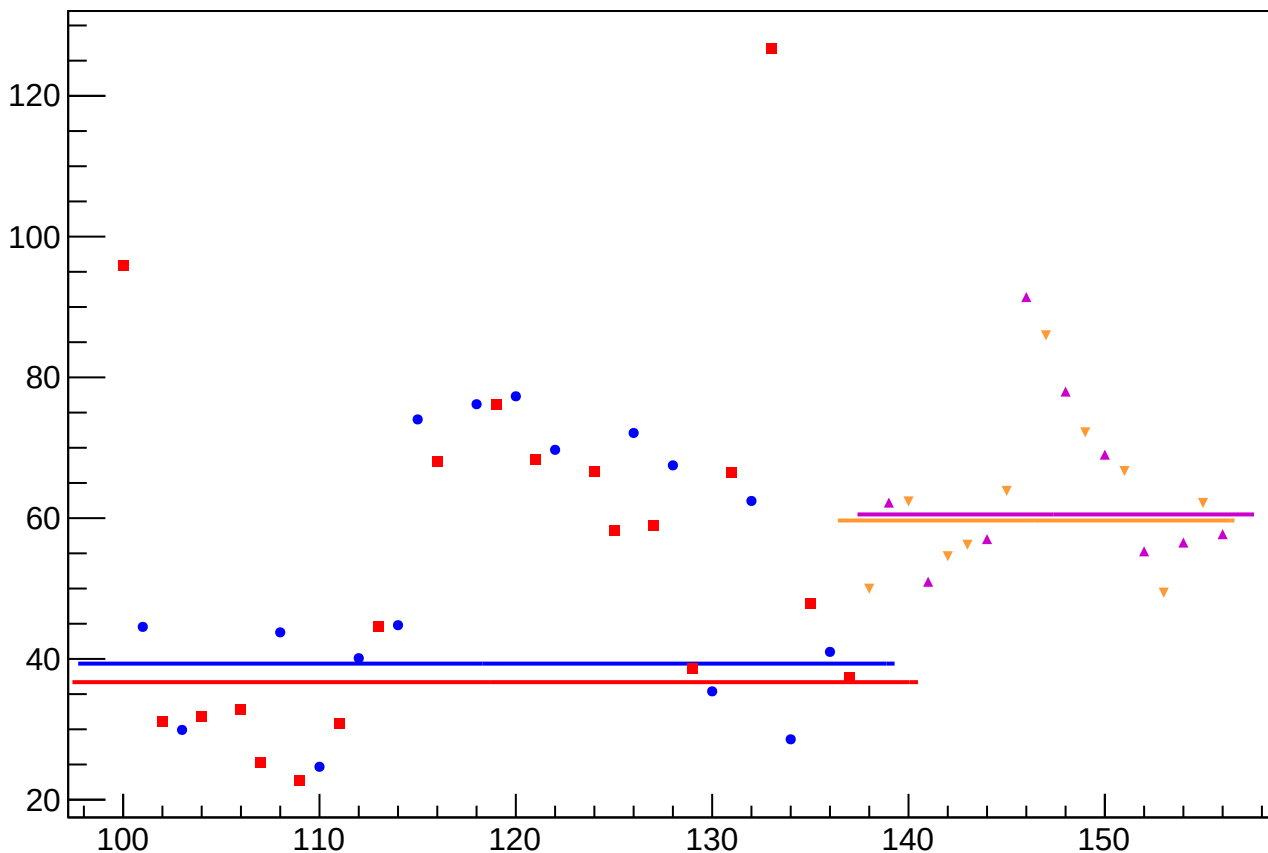
Right: 0.017 ± 0.011 $\chi^2/\text{NDF}: 52.3/34$

In: 0.038 ± 0.013 $\chi^2/\text{NDF}: 32.0/24$

Out: 0.000 ± 0.012 $\chi^2/\text{NDF}: 35.0/28$

All: 0.018 ± 0.009 $\chi^2/\text{NDF}: 71.4/53$

asym_sam6_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.334 $\pm$ 0.011 χ^2 /NDF: 1566545.4/15

Left Out: 59.668 $\pm$ 0.016 χ^2 /NDF: 368696.1/9

Right Out: 36.699 $\pm$ 0.011 χ^2 /NDF: 2096748.4/18

Left In: 60.530 $\pm$ 0.016 χ^2 /NDF: 395874.1/8

Left: 60.094 $\pm$ 0.011 χ^2 /NDF: 766092.2/18

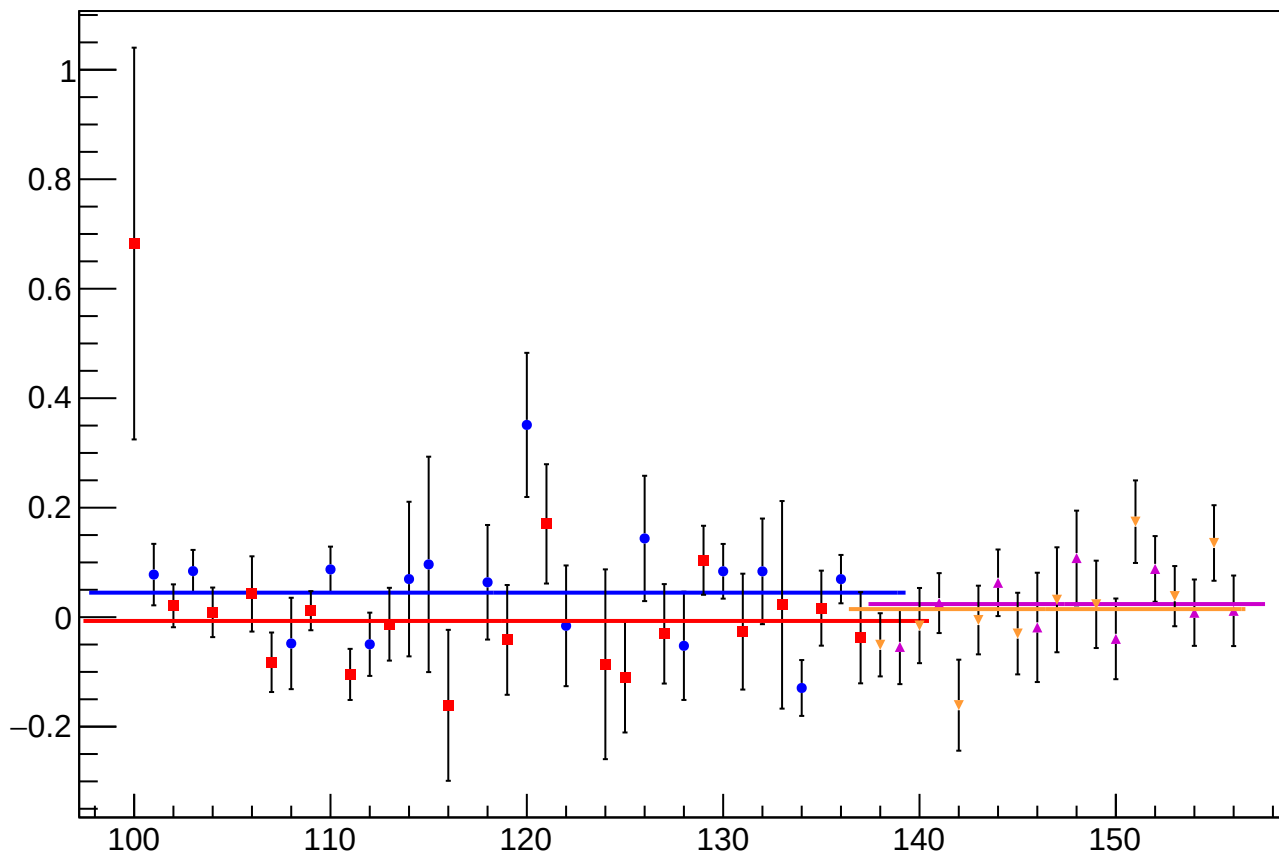
Right: 37.940 $\pm$ 0.008 χ^2 /NDF: 3691915.1/34

In: 46.592 $\pm$ 0.009 χ^2 /NDF: 3161079.6/24

Out: 44.080 $\pm$ 0.009 χ^2 /NDF: 3950236.0/28

All: 45.282 $\pm$ 0.006 χ^2 /NDF: 7150314.2/53

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: 0.015 $\pm$ 0.022 χ^2 /NDF:14.2/9

Right Out: -0.007 $\pm$ 0.015 χ^2 /NDF: 20.2/18

Left In: 0.024 $\pm$ 0.022 χ^2 /NDF:4.9/8

Left: 0.019 $\pm$ 0.016 χ^2 /NDF: 19.1/18

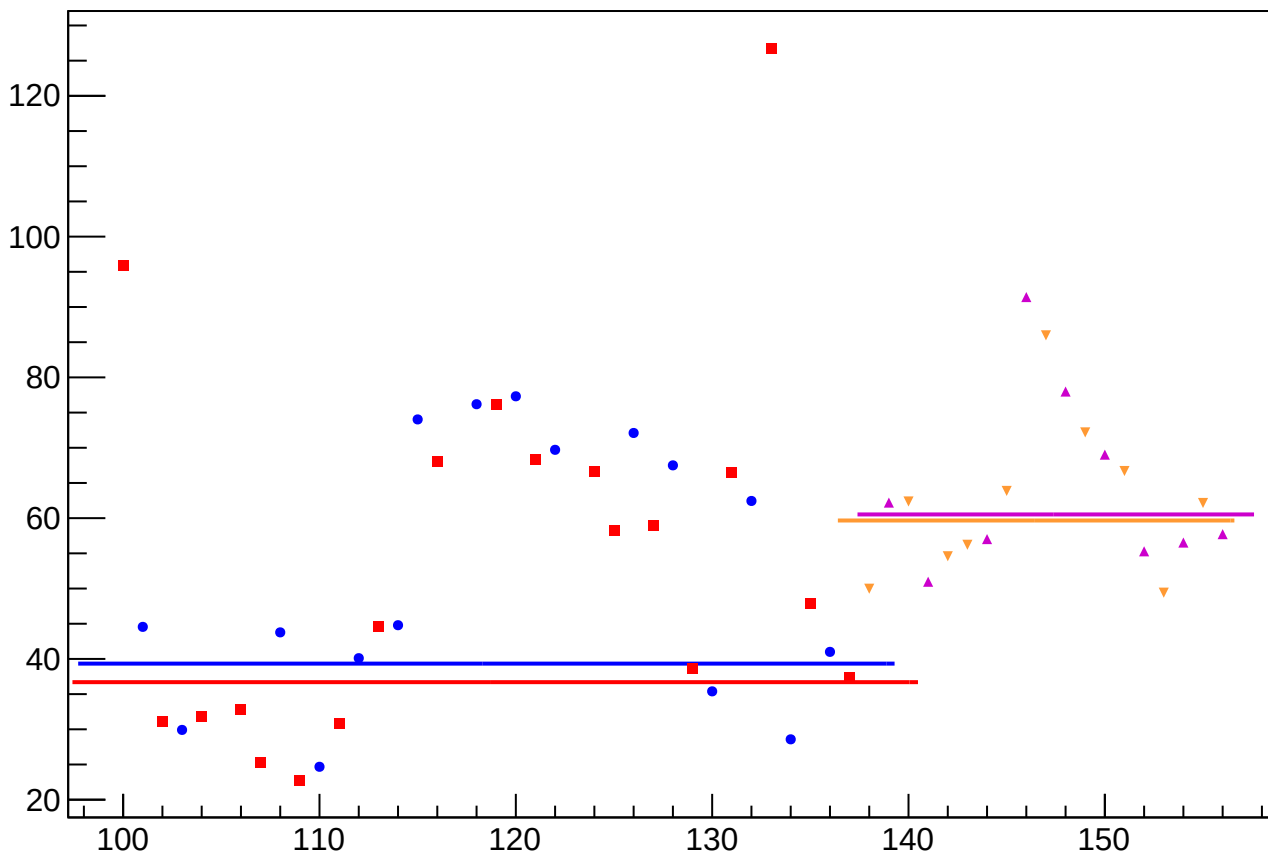
Right: 0.017 $\pm$ 0.011 χ^2 /NDF: 52.3/34

In: 0.038 $\pm$ 0.013 χ^2 /NDF:32.0/24

Out: 0.000 $\pm$ 0.012 χ^2 /NDF:35.0/28

All: 0.018 $\pm$ 0.009 χ^2 /NDF: 71.4/53

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: 59.668+/-0.016 χ^2/NDF : 368696.1/9

Right Out: 36.699+/-0.011 χ^2/NDF : 2096748.4/18

Left In: 60.530+/-0.016 χ^2/NDF : 395874.1/8

Left: 60.094+/-0.011 χ^2/NDF : 766092.2/18

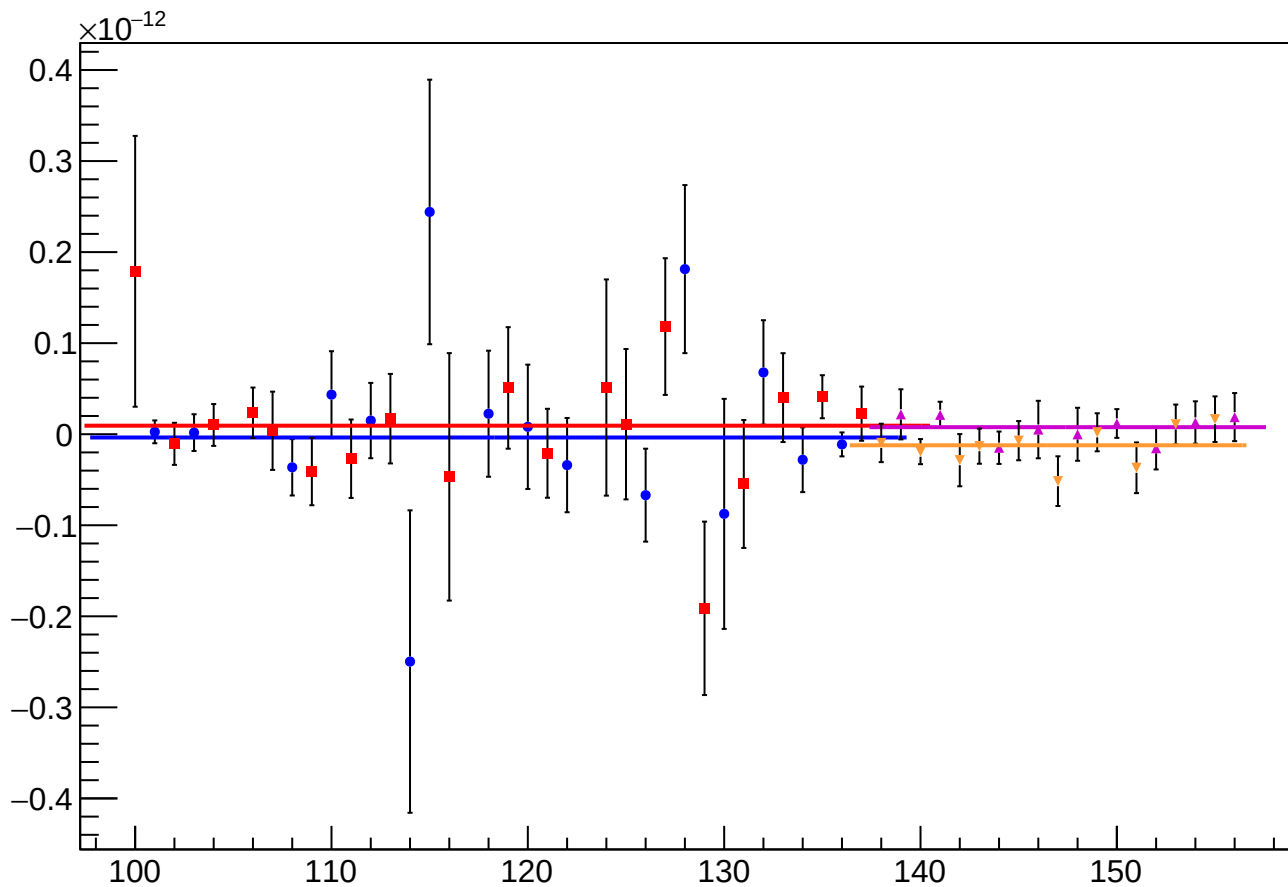
Right: 37.940+/-0.008 χ^2/NDF : 3691915.1/34

In: 46.592+/-0.009 χ^2/NDF : 3161079.6/24

Out: 44.080+/-0.009 χ^2/NDF : 3950236.0/28

All: 45.282+/-0.006 χ^2/NDF : 7150314.2/53

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 : 6.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 15.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.1/8

Left: -0.000+/-0.000 χ^2/NDF : 14.8/18

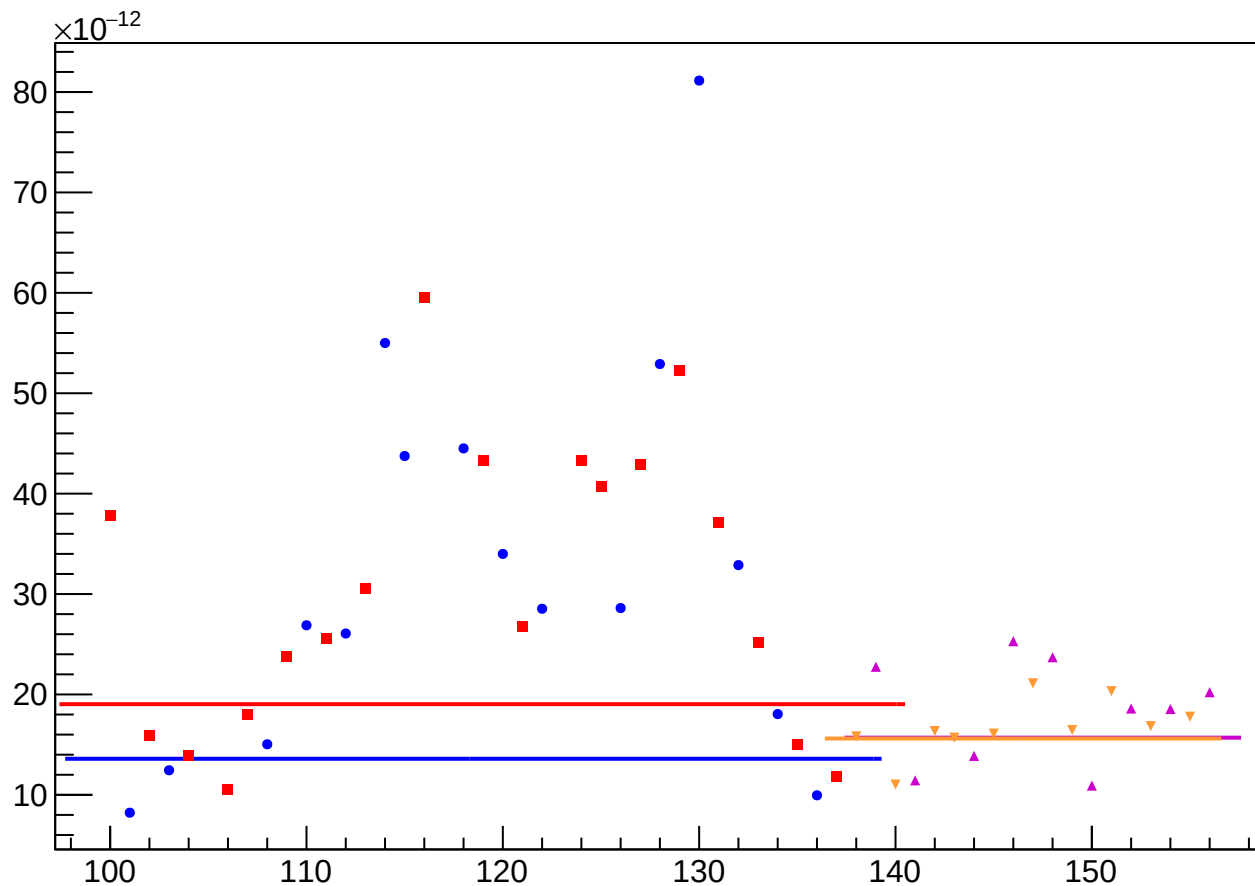
Right: 0.000+/-0.000 χ^2/NDF : 33.6/34

In: 0.000+/-0.000 χ^2/NDF : 22.0/24

Out: -0.000+/-0.000 χ^2/NDF : 25.8/28

All: -0.000+/-0.000 χ^2/NDF : 48.6/53

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 : 387261.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2049385.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 967615.3/8

Left: 0.000+/-0.000 χ^2/NDF : 1355028.1/18

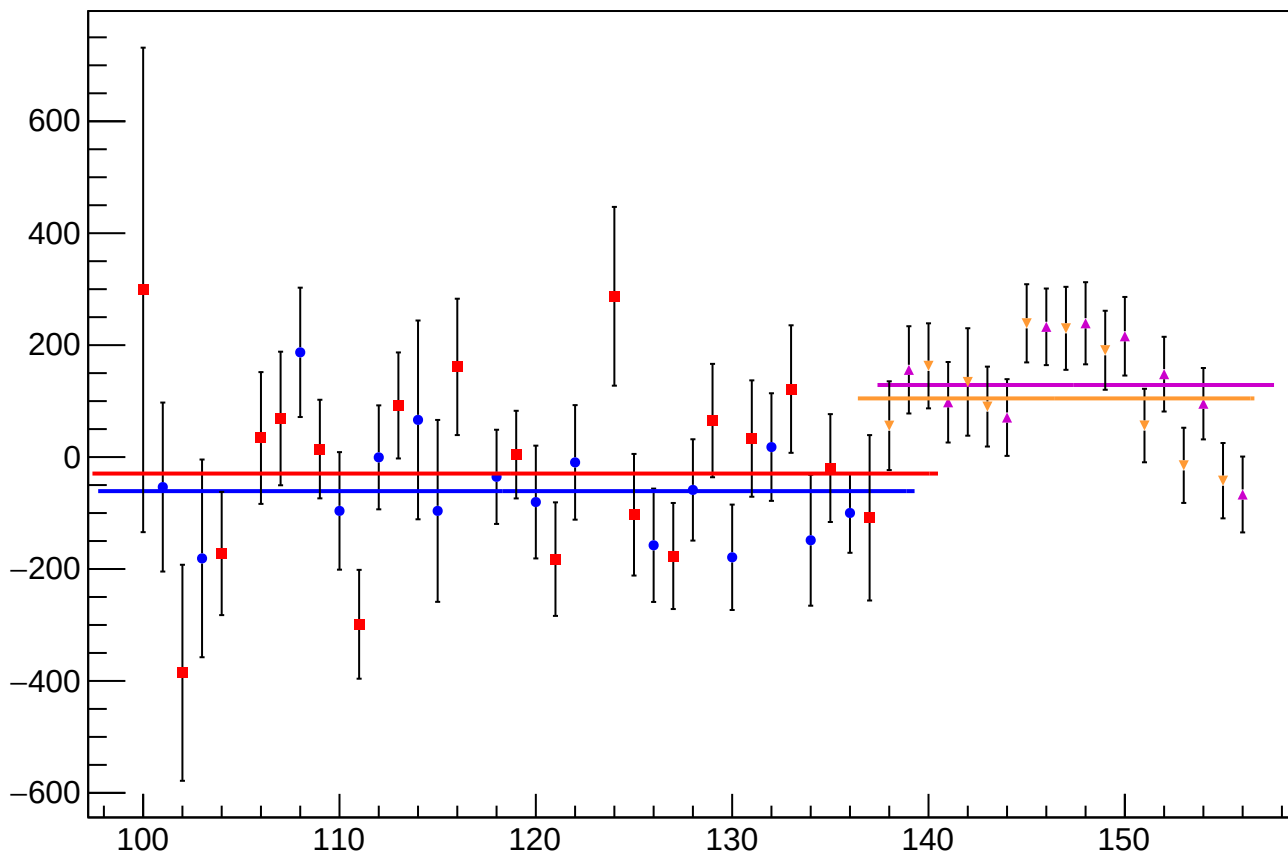
Right: 0.000+/-0.000 χ^2/NDF : 5674807.3/34

In: 0.000+/-0.000 χ^2/NDF : 4242585.7/24

Out: 0.000+/-0.000 χ^2/NDF : 2619577.7/28

All: 0.000+/-0.000 χ^2/NDF : 7029899.9/53

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.846 ± 26.054 $\chi^2/\text{NDF}: 10.6/15$

Left Out: 104.815 ± 22.949 $\chi^2/\text{NDF}: 17.6/9$

Right Out: -29.453 ± 25.105 $\chi^2/\text{NDF}: 31.2/18$

Left In: 128.788 ± 23.184 $\chi^2/\text{NDF}: 15.8/8$

Left: 116.679 ± 16.310 $\chi^2/\text{NDF}: 34.0/18$

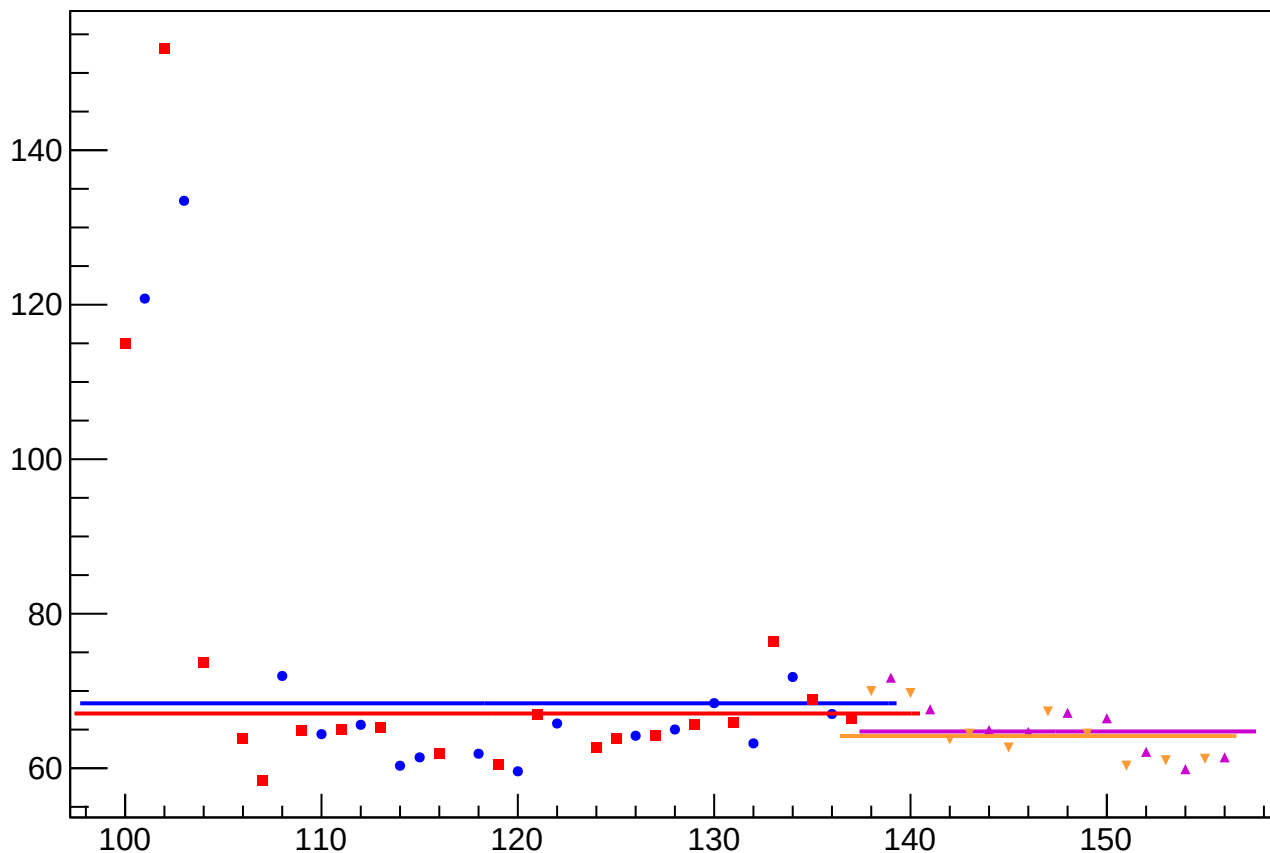
Right: -44.568 ± 18.078 $\chi^2/\text{NDF}: 42.5/34$

In: 44.986 ± 17.320 $\chi^2/\text{NDF}: 56.0/24$

Out: 43.695 ± 16.938 $\chi^2/\text{NDF}: 64.4/28$

All: 44.326 ± 12.110 $\chi^2/\text{NDF}: 120.4/53$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 $\pm$ 0.018 χ^2 /NDF: 569557.5/15

Left Out: 64.167 $\pm$ 0.016 χ^2 /NDF: 41192.4/9

Right Out: 67.086 $\pm$ 0.018 χ^2 /NDF: 481815.1/18

Left In: 64.762 $\pm$ 0.016 χ^2 /NDF: 42204.2/8

Left: 64.461 $\pm$ 0.012 χ^2 /NDF: 84063.0/18

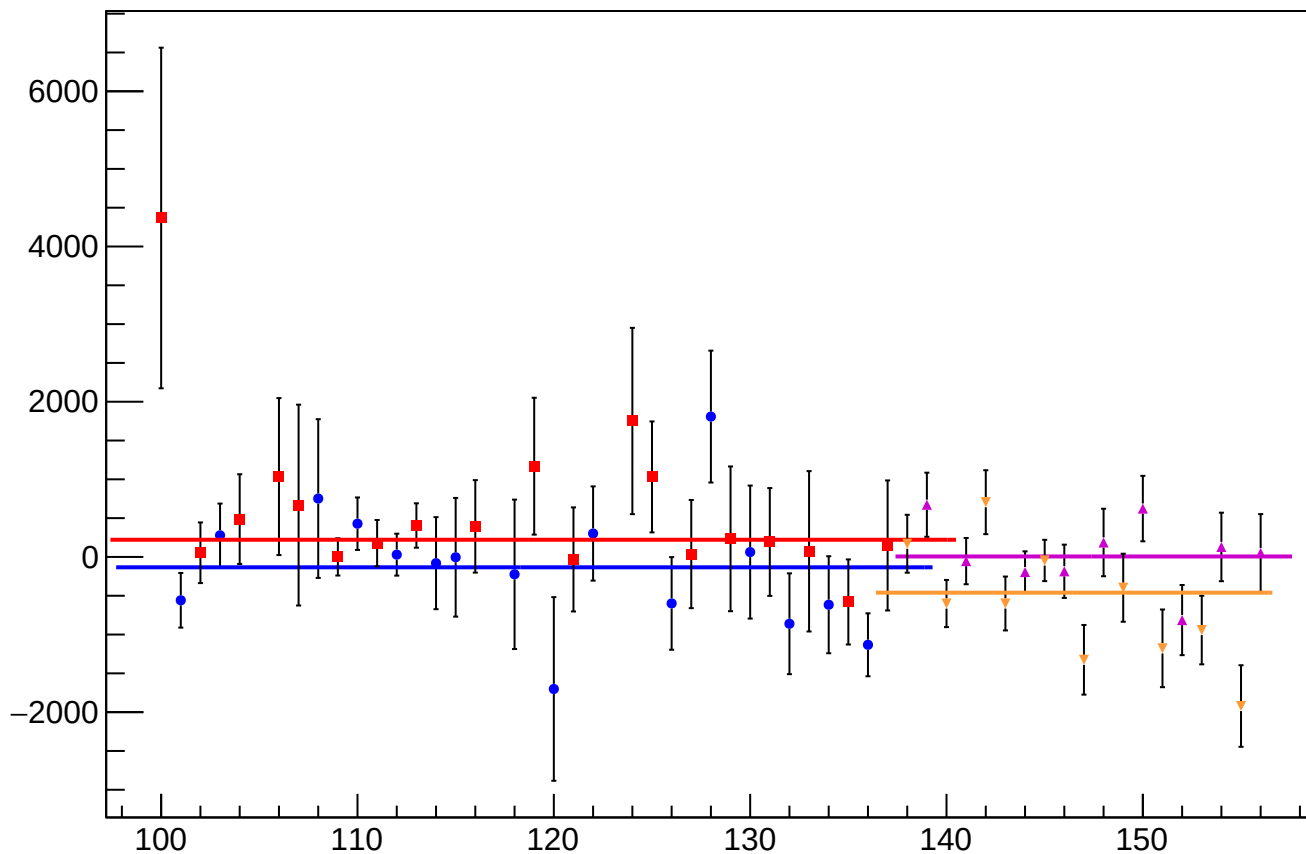
Right: 67.720 $\pm$ 0.013 χ^2 /NDF: 1054024.8/34

In: 66.371 $\pm$ 0.012 χ^2 /NDF: 633563.2/24

Out: 65.495 $\pm$ 0.012 χ^2 /NDF: 537738.3/28

All: 65.924 $\pm$ 0.009 χ^2 /NDF: 1173915.1/53

asym_sam7_reg_correction_mean vs Slug, Sign Corrected



Right In: -133.590+/-125.904 χ^2/NDF : 22.5/15

Left Out: -460.333+/-120.200 χ^2/NDF : 28.4/9

Right Out: 221.324+/-117.783 χ^2/NDF : 12.5/18

Left In: 6.200+/-124.445 χ^2/NDF : 9.2/8

Left: -235.159+/-86.456 χ^2/NDF : 44.9/18

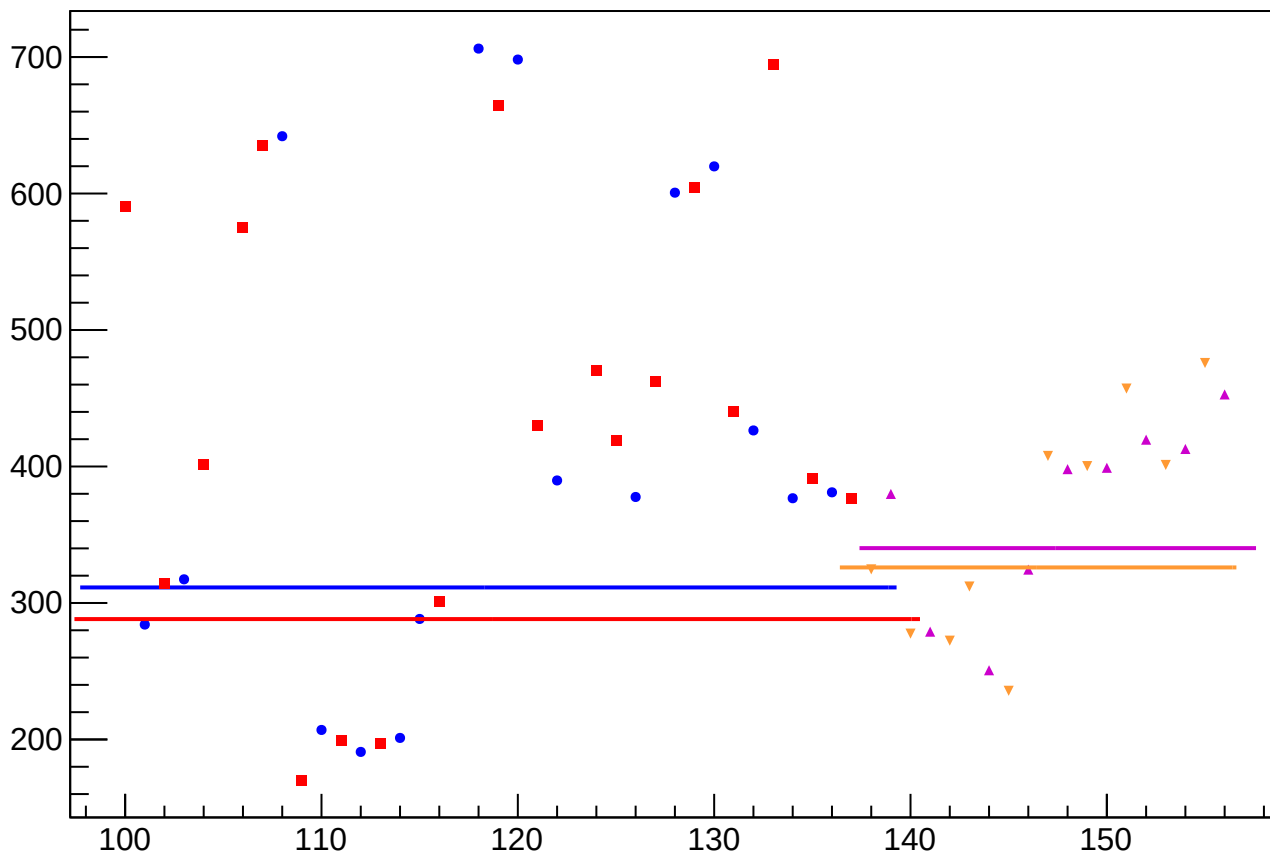
Right: 55.682+/-86.013 χ^2/NDF : 39.2/34

In: -62.880+/-88.507 χ^2/NDF : 32.3/24

Out: -112.582+/-84.126 χ^2/NDF : 57.3/28

All: -88.991+/-60.976 χ^2/NDF : 89.8/53

asym_sam7_reg_correction_rms vs Slug, Sign Corrected



Right In: 311.386 $\pm$ 0.089 χ^2/NDF : 2123797.6/15

Left Out: 326.047 $\pm$ 0.085 χ^2/NDF : 799615.0/9

Right Out: 288.205 $\pm$ 0.083 χ^2/NDF : 2715380.6/18

Left In: 340.193 $\pm$ 0.088 χ^2/NDF : 623503.4/8

Left: 332.874 $\pm$ 0.061 χ^2/NDF : 1436487.5/18

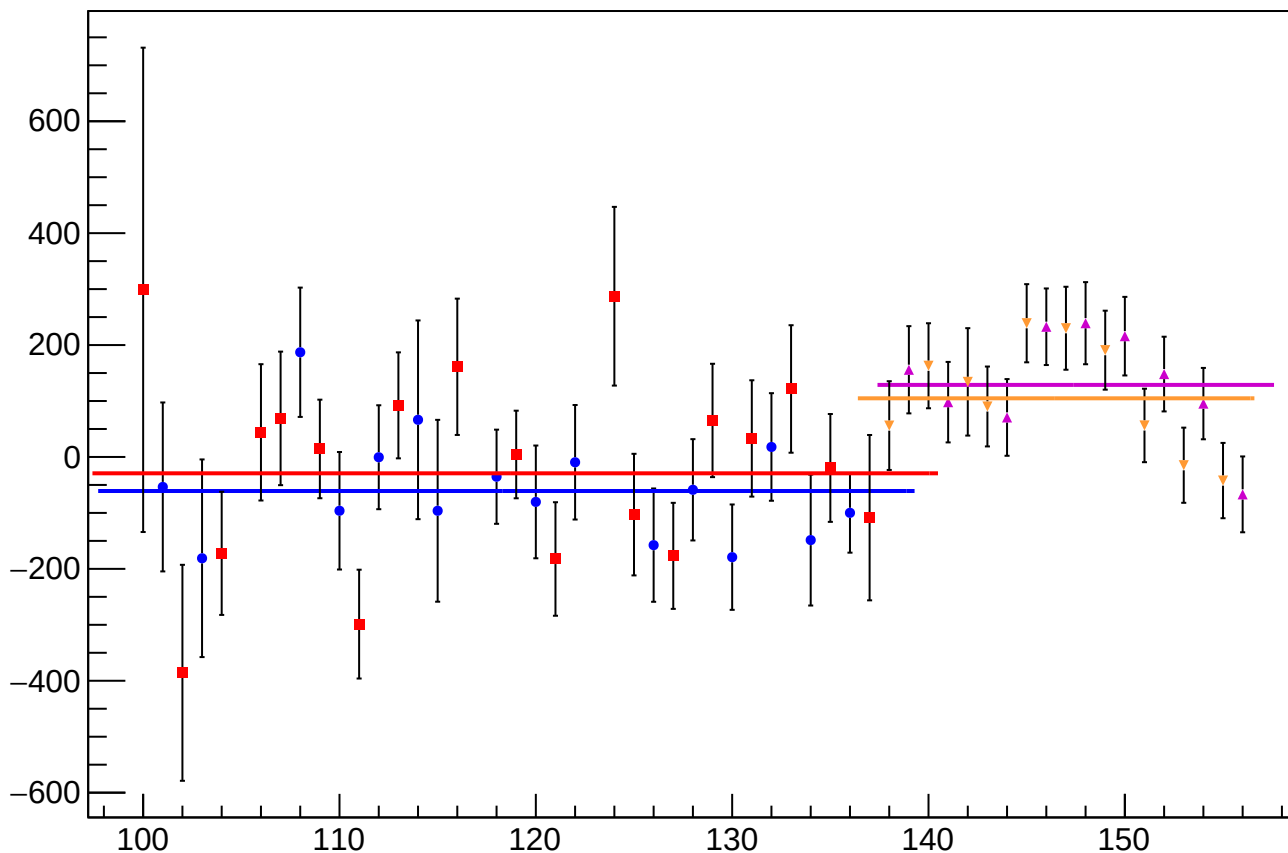
Right: 299.024 $\pm$ 0.061 χ^2/NDF : 4875335.3/34

In: 325.957 $\pm$ 0.063 χ^2/NDF : 2800259.4/24

Out: 306.742 $\pm$ 0.059 χ^2/NDF : 3616125.3/28

All: 315.862 $\pm$ 0.043 χ^2/NDF : 6465911.5/53

cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 ± 26.054 $\chi^2/\text{NDF}: 10.6/15$

Left Out: 104.815 ± 22.949 $\chi^2/\text{NDF}: 17.6/9$

Right Out: -29.221 ± 25.143 $\chi^2/\text{NDF}: 31.3/18$

Left In: 128.788 ± 23.184 $\chi^2/\text{NDF}: 15.8/8$

Left: 116.679 ± 16.310 $\chi^2/\text{NDF}: 34.0/18$

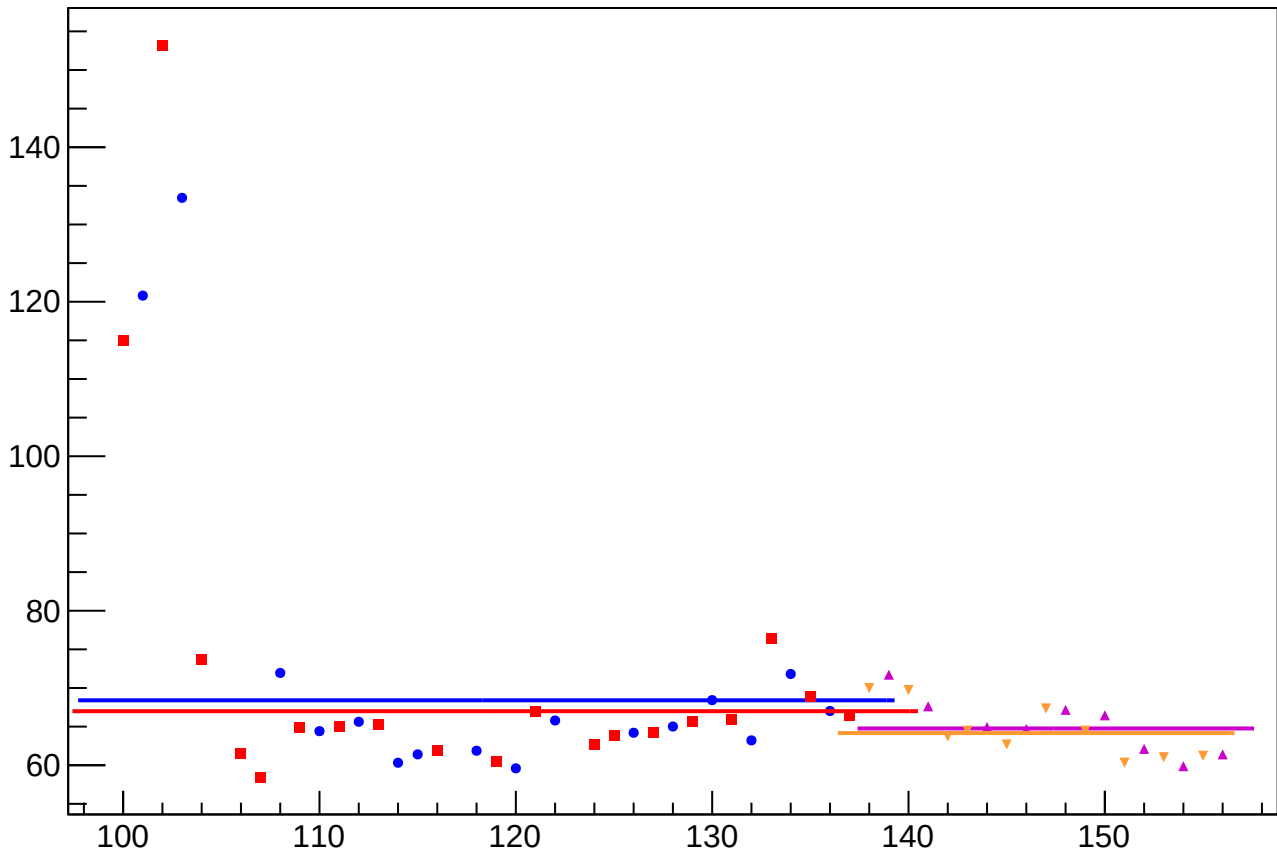
Right: -44.472 ± 18.092 $\chi^2/\text{NDF}: 42.6/34$

In: 44.985 ± 17.320 $\chi^2/\text{NDF}: 56.0/24$

Out: 43.901 ± 16.950 $\chi^2/\text{NDF}: 64.4/28$

All: 44.431 ± 12.114 $\chi^2/\text{NDF}: 120.4/53$

cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 ± 0.018 $\chi^2/\text{NDF}: 569557.9/15$

Left Out: 64.167 ± 0.016 $\chi^2/\text{NDF}: 41192.4/9$

Right Out: 66.995 ± 0.018 $\chi^2/\text{NDF}: 484487.7/18$

Left In: 64.762 ± 0.016 $\chi^2/\text{NDF}: 42204.2/8$

Left: 64.461 ± 0.012 $\chi^2/\text{NDF}: 84062.9/18$

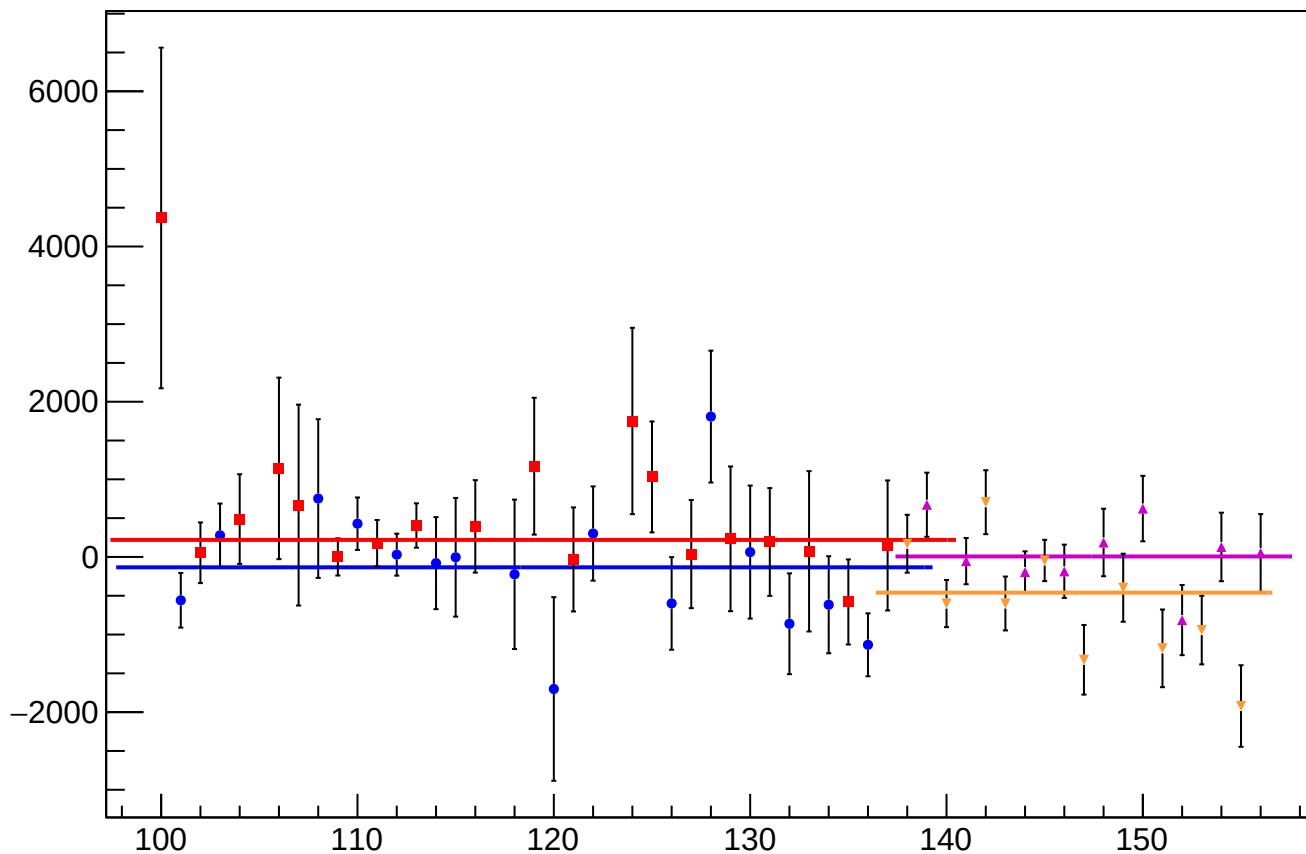
Right: 67.674 ± 0.013 $\chi^2/\text{NDF}: 1057072.9/34$

In: 66.371 ± 0.012 $\chi^2/\text{NDF}: 633563.5/24$

Out: 65.452 ± 0.012 $\chi^2/\text{NDF}: 539483.1/28$

All: 65.902 ± 0.009 $\chi^2/\text{NDF}: 1175924.9/53$

asym_sam7_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587 ± 125.904 $\chi^2/\text{NDF}: 22.5/15$

Left Out: -460.330 ± 120.200 $\chi^2/\text{NDF}: 28.4/9$

Right Out: 219.615 ± 117.989 $\chi^2/\text{NDF}: 12.5/18$

Left In: 6.197 ± 124.445 $\chi^2/\text{NDF}: 9.2/8$

Left: -235.160 ± 86.456 $\chi^2/\text{NDF}: 44.9/18$

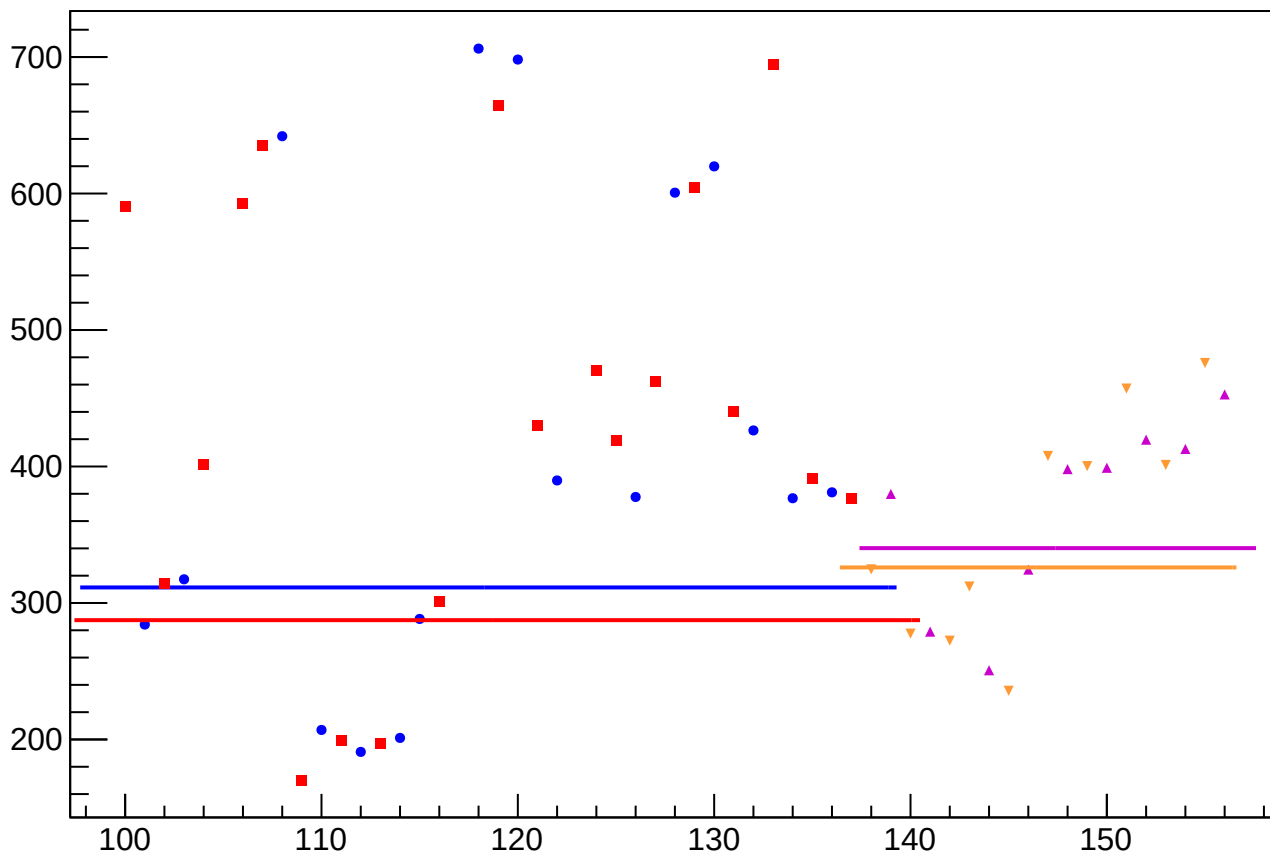
Right: 54.464 ± 86.093 $\chi^2/\text{NDF}: 39.2/34$

In: -62.880 ± 88.507 $\chi^2/\text{NDF}: 32.3/24$

Out: -114.049 ± 84.202 $\chi^2/\text{NDF}: 57.2/28$

All: -89.739 ± 61.005 $\chi^2/\text{NDF}: 89.7/53$

asym_sam7_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388+/-0.089 χ^2/NDF : 2123799.0/15

Left Out: 326.047+/-0.085 χ^2/NDF : 799619.3/9

Right Out: 287.413+/-0.083 χ^2/NDF : 2690258.0/18

Left In: 340.193+/-0.088 χ^2/NDF : 623500.7/8

Left: 332.874+/-0.061 χ^2/NDF : 1436490.0/18

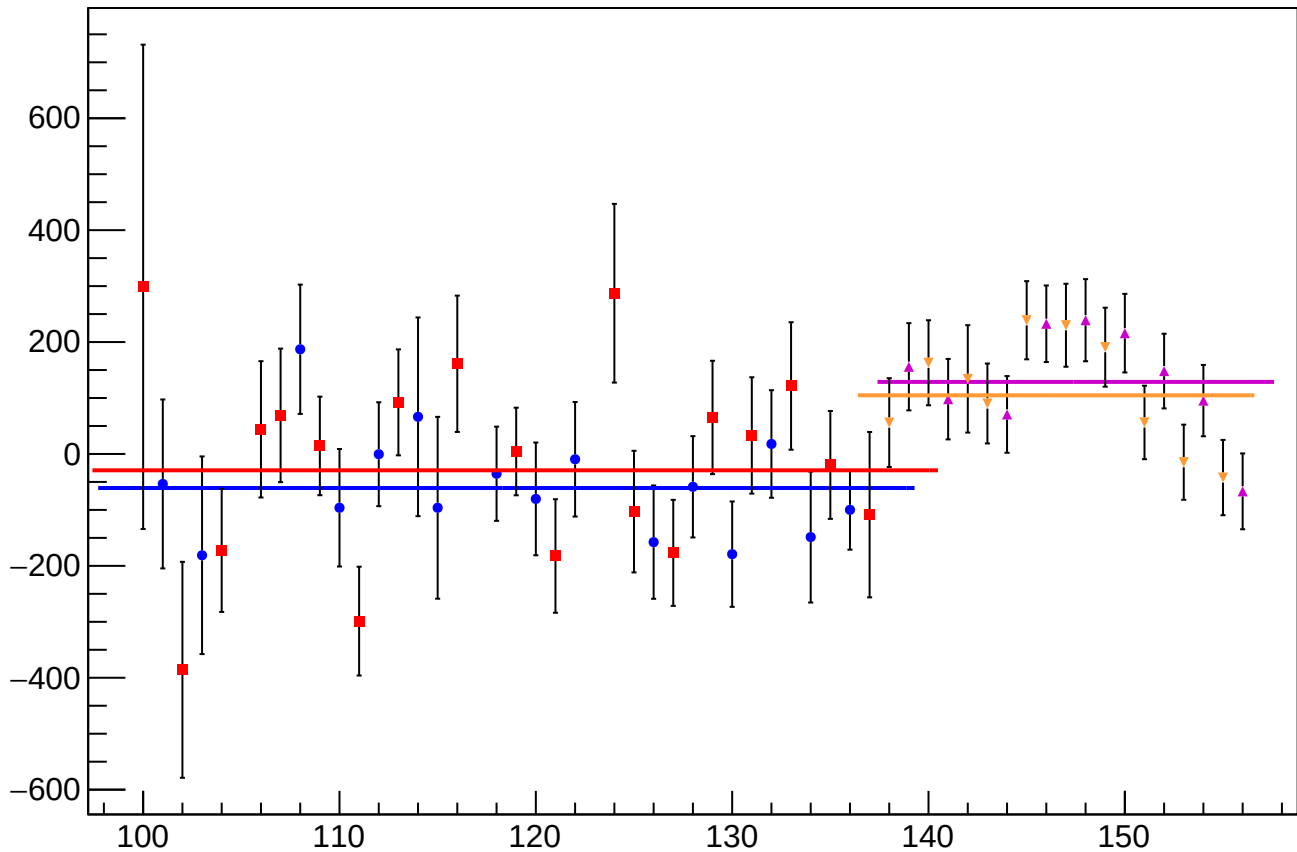
Right: 298.623+/-0.061 χ^2/NDF : 4852668.8/34

In: 325.958+/-0.063 χ^2/NDF : 2800251.8/24

Out: 306.371+/-0.060 χ^2/NDF : 3595100.7/28

All: 315.677+/-0.043 χ^2/NDF : 6446767.7/53

eigen_cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 ± 26.054 $\chi^2/\text{NDF}: 10.6/15$

Left Out: 104.815 ± 22.949 $\chi^2/\text{NDF}: 17.6/9$

Right Out: -29.221 ± 25.143 $\chi^2/\text{NDF}: 31.3/18$

Left In: 128.788 ± 23.184 $\chi^2/\text{NDF}: 15.8/8$

Left: 116.679 ± 16.310 $\chi^2/\text{NDF}: 34.0/18$

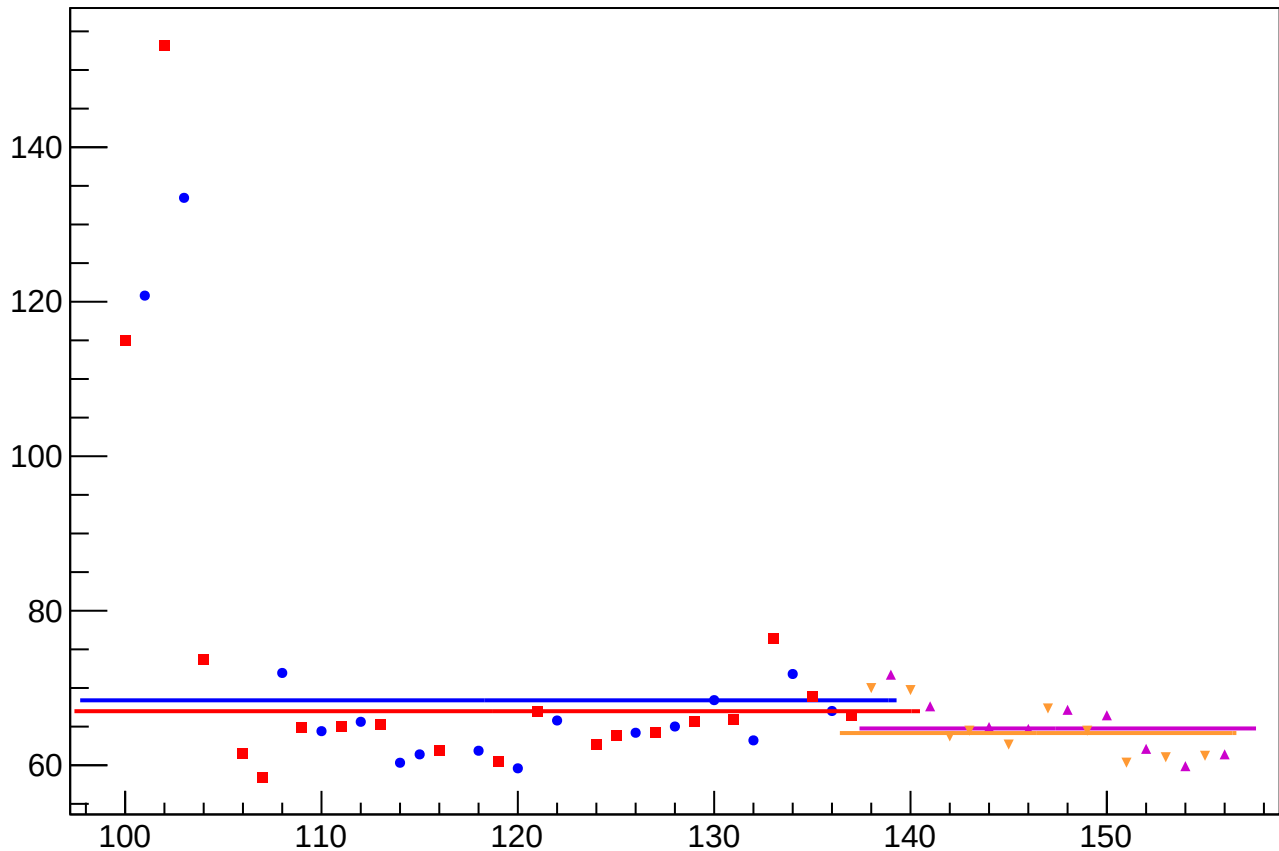
Right: -44.472 ± 18.092 $\chi^2/\text{NDF}: 42.6/34$

In: 44.985 ± 17.320 $\chi^2/\text{NDF}: 56.0/24$

Out: 43.901 ± 16.950 $\chi^2/\text{NDF}: 64.4/28$

All: 44.431 ± 12.114 $\chi^2/\text{NDF}: 120.4/53$

eigen_cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403+/-0.018 χ^2/NDF : 569557.9/15

Left Out: 64.167+/-0.016 χ^2/NDF : 41192.4/9

Right Out: 66.995+/-0.018 χ^2/NDF : 484487.7/18

Left In: 64.762+/-0.016 χ^2/NDF : 42204.2/8

Left: 64.461+/-0.012 χ^2/NDF : 84062.9/18

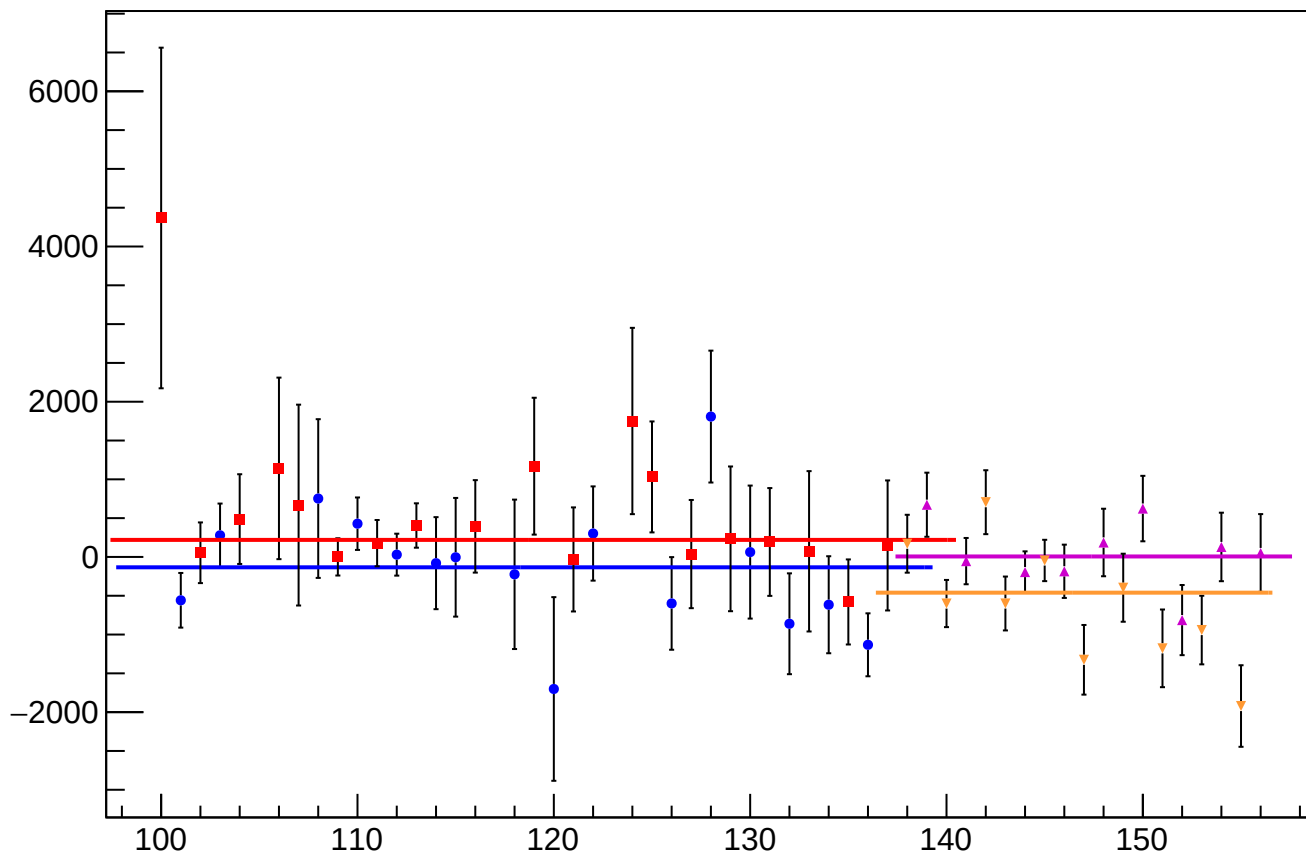
Right: 67.674+/-0.013 χ^2/NDF : 1057072.9/34

In: 66.371+/-0.012 χ^2/NDF : 633563.5/24

Out: 65.452+/-0.012 χ^2/NDF : 539483.1/28

All: 65.902+/-0.009 χ^2/NDF : 1175924.9/53

asym_sam7_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587 $\pm$ 125.904 χ^2 /NDF: 22.5/15

Left Out: -460.330 $\pm$ 120.200 χ^2 /NDF:28.4/9

Right Out: 219.615 $\pm$ 117.989 χ^2 /NDF: 12.5/18

Left In: 6.197 $\pm$ 124.445 χ^2 /NDF:9.2/8

Left: -235.160 $\pm$ 86.456 χ^2 /NDF: 44.9/18

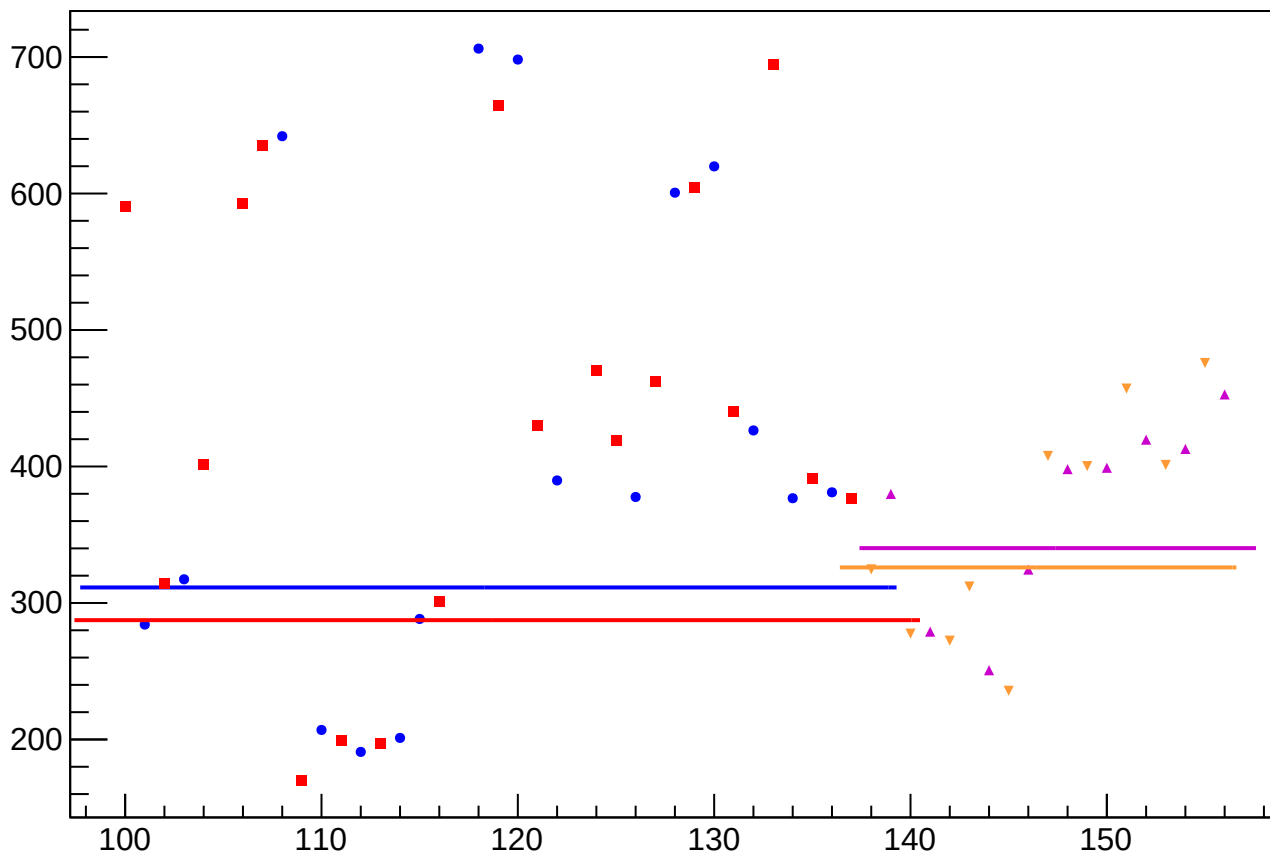
Right: 54.464 $\pm$ 86.093 χ^2 /NDF: 39.2/34

In: -62.880 $\pm$ 88.507 χ^2 /NDF:32.3/24

Out: -114.049 $\pm$ 84.202 χ^2 /NDF:57.2/28

All: -89.739 $\pm$ 61.005 χ^2 /NDF: 89.7/53

asym_sam7_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388 $\pm$ 0.089 χ^2 /NDF: 2123799.0/15

Left Out: 326.047 $\pm$ 0.085 χ^2 /NDF: 799619.3/9

Right Out: 287.413 $\pm$ 0.083 χ^2 /NDF: 2690258.0/18

Left In: 340.193 $\pm$ 0.088 χ^2 /NDF: 623500.7/8

Left: 332.874 $\pm$ 0.061 χ^2 /NDF: 1436490.0/18

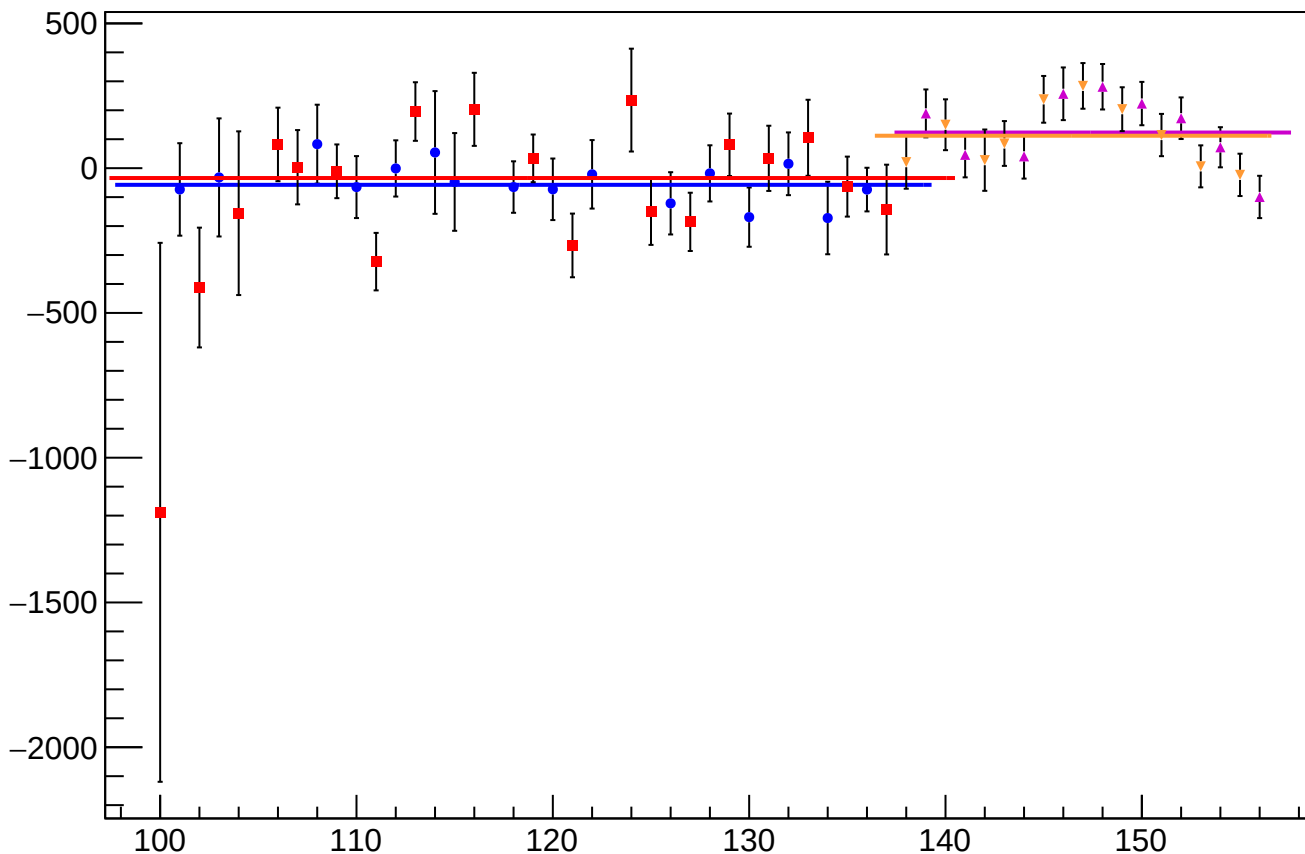
Right: 298.623 $\pm$ 0.061 χ^2 /NDF: 4852668.8/34

In: 325.958 $\pm$ 0.063 χ^2 /NDF: 2800251.8/24

Out: 306.371 $\pm$ 0.060 χ^2 /NDF: 3595100.7/28

All: 315.677 $\pm$ 0.043 χ^2 /NDF: 6446767.7/53

dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.533 ± 28.087 $\chi^2/\text{NDF}: 4.9/15$

Left Out: 112.076 ± 25.336 $\chi^2/\text{NDF}: 16.1/9$

Right Out: -34.033 ± 27.398 $\chi^2/\text{NDF}: 37.1/18$

Left In: 123.092 ± 25.559 $\chi^2/\text{NDF}: 21.1/8$

Left: 117.536 ± 17.994 $\chi^2/\text{NDF}: 37.3/18$

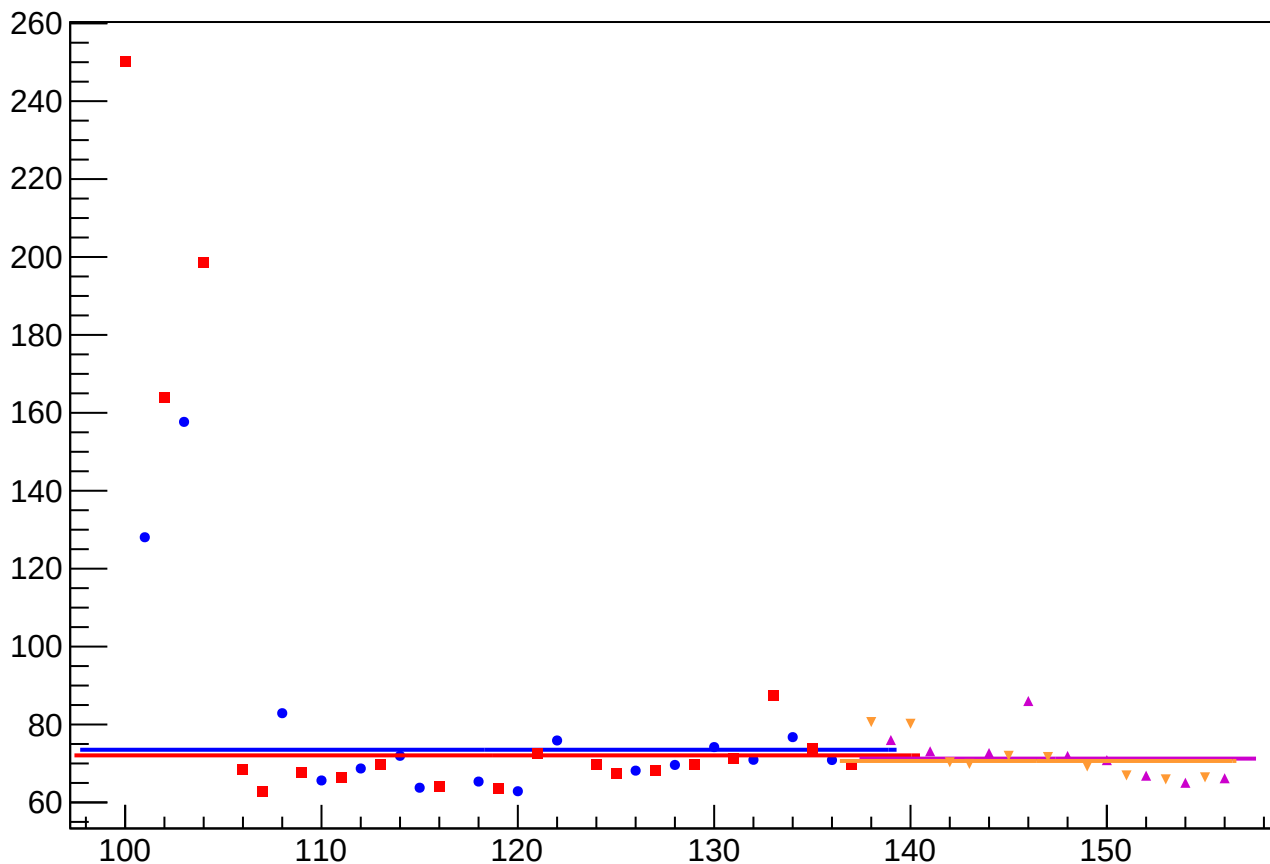
Right: -45.491 ± 19.612 $\chi^2/\text{NDF}: 42.4/34$

In: 41.273 ± 18.903 $\chi^2/\text{NDF}: 48.6/24$

Out: 44.725 ± 18.602 $\chi^2/\text{NDF}: 68.6/28$

All: 43.027 ± 13.259 $\chi^2/\text{NDF}: 117.2/53$

dit_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.519+/-0.020 χ^2/NDF : 656847.5/15

Left Out: 70.643+/-0.018 χ^2/NDF : 69397.0/9

Right Out: 72.074+/-0.019 χ^2/NDF : 958495.0/18

Left In: 71.245+/-0.018 χ^2/NDF : 94491.4/8

Left: 70.941+/-0.013 χ^2/NDF : 164447.9/18

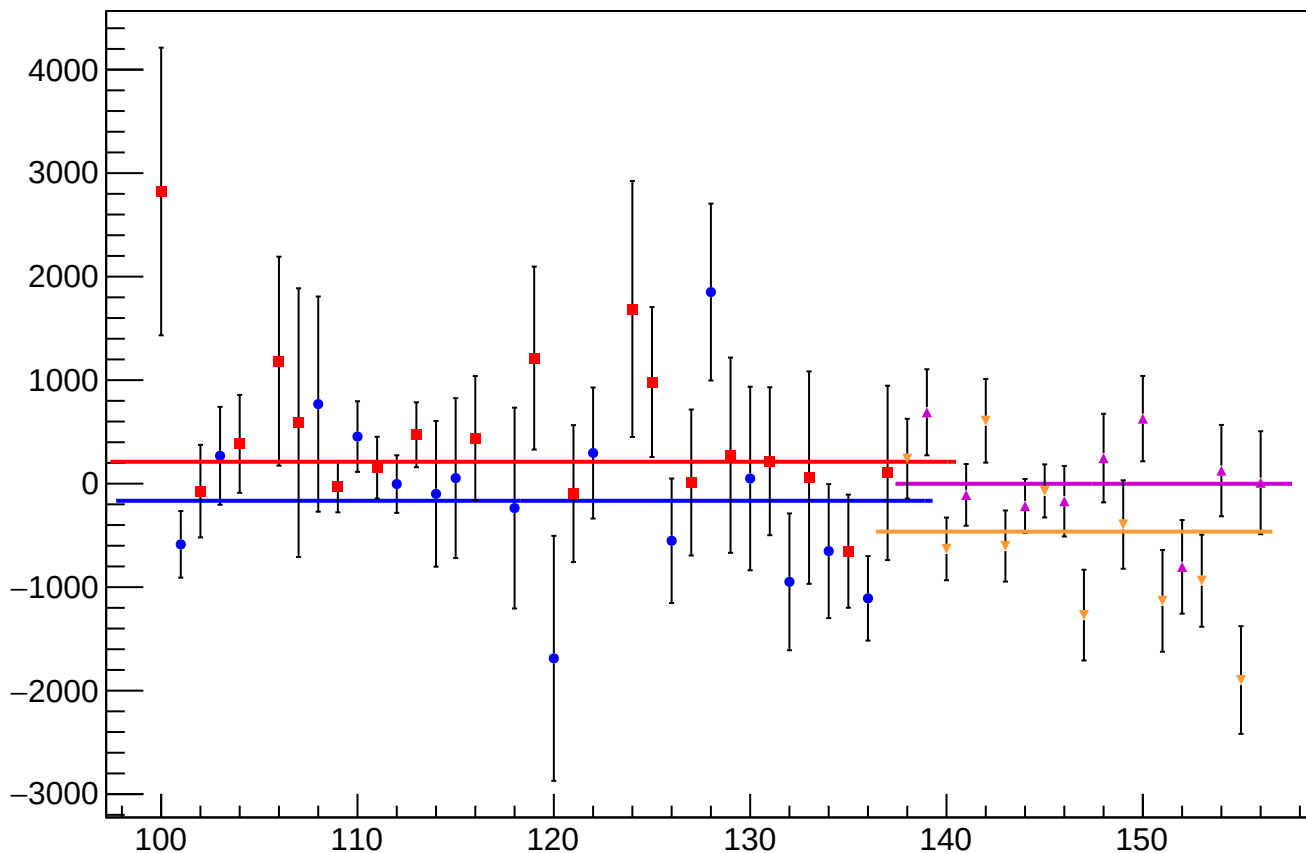
Right: 72.779+/-0.014 χ^2/NDF : 1618055.3/34

In: 72.275+/-0.013 χ^2/NDF : 758511.2/24

Out: 71.303+/-0.013 χ^2/NDF : 1030832.7/28

All: 71.781+/-0.009 χ^2/NDF : 1792032.6/53

asym_sam7_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.500 ± 128.438 χ^2/NDF : 22.6/15

Left Out: -463.521 ± 118.676 χ^2/NDF : 27.2/9

Right Out: 211.347 ± 120.122 χ^2/NDF : 13.6/18

Left In: -1.301 ± 123.315 χ^2/NDF : 9.7/8

Left: -241.270 ± 85.510 χ^2/NDF : 44.2/18

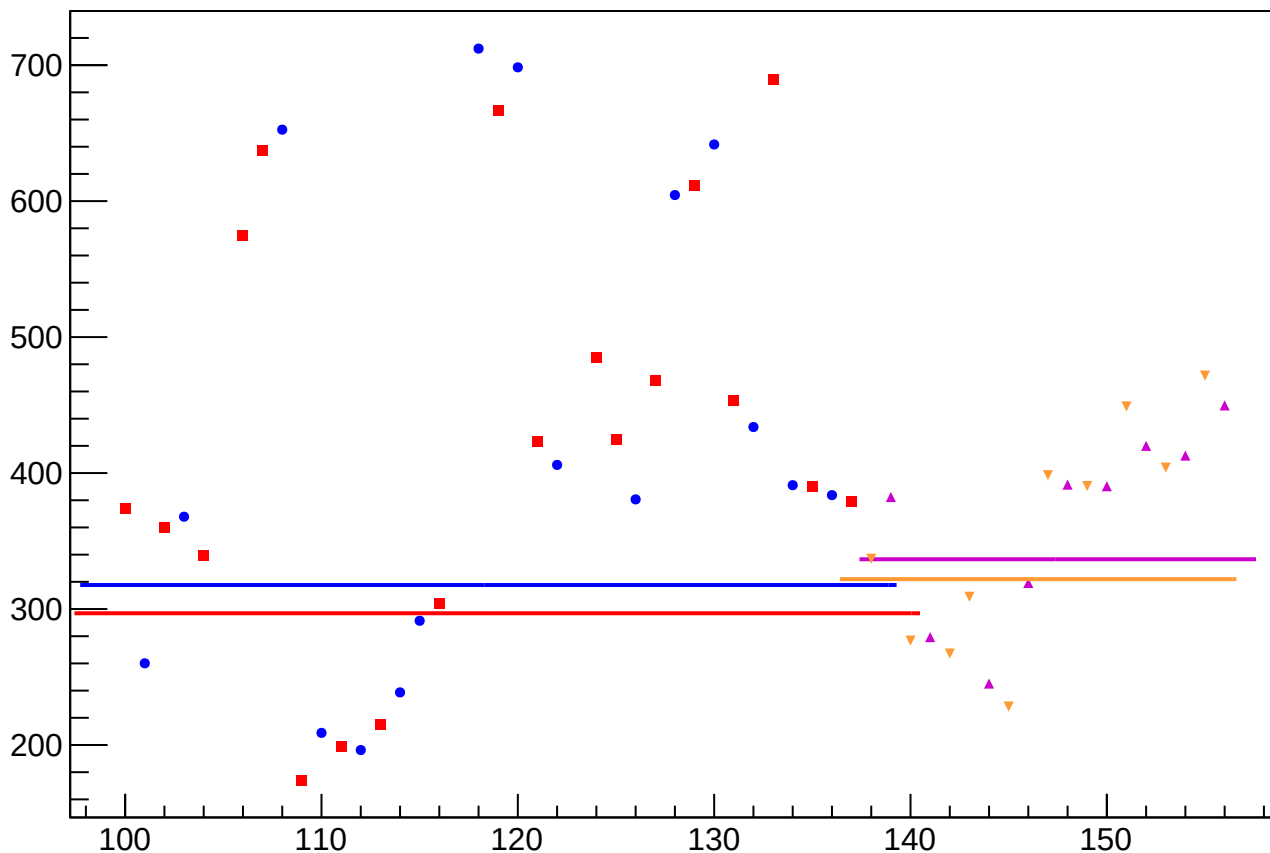
Right: 35.518 ± 87.732 χ^2/NDF : 40.8/34

In: -80.061 ± 88.953 χ^2/NDF : 33.2/24

Out: -130.173 ± 84.423 χ^2/NDF : 56.7/28

All: -106.425 ± 61.235 χ^2/NDF : 90.1/53

asym_sam7_dit_correction_rms vs Slug, Sign Corrected



Right In: 317.664 $\pm$ 0.091 χ^2/NDF : 2136192.8/15

Left Out: 321.978 $\pm$ 0.084 χ^2/NDF : 833440.9/9

Right Out: 296.888 $\pm$ 0.085 χ^2/NDF : 2541040.3/18

Left In: 336.596 $\pm$ 0.087 χ^2/NDF : 647158.5/8

Left: 329.007 $\pm$ 0.060 χ^2/NDF : 1495190.8/18

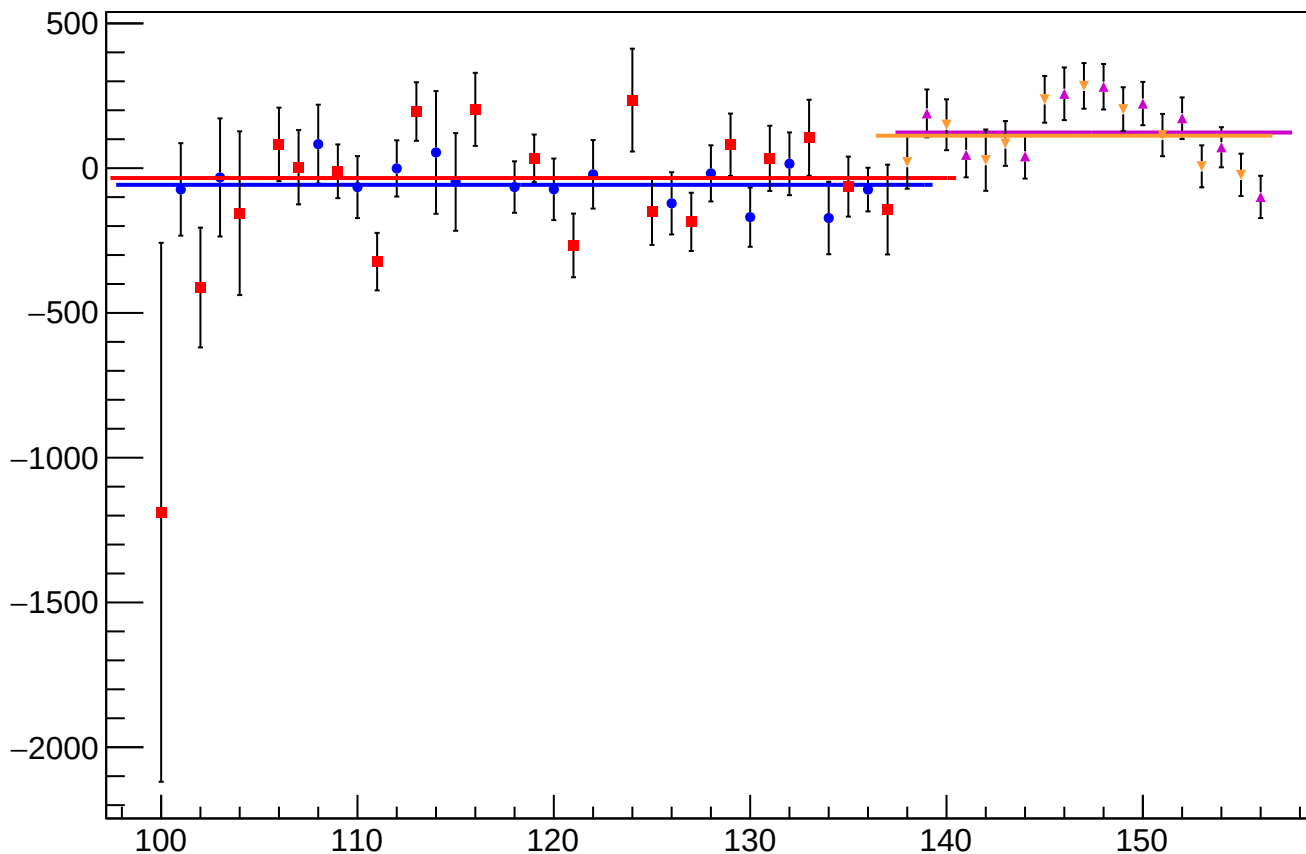
Right: 306.582 $\pm$ 0.062 χ^2/NDF : 4705147.7/34

In: 327.515 $\pm$ 0.063 χ^2/NDF : 2805962.7/24

Out: 309.585 $\pm$ 0.060 χ^2/NDF : 3418635.2/28

All: 318.082 $\pm$ 0.043 χ^2/NDF : 6267350.0/53

eigen_dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.532 $\pm$ 28.087 χ^2/NDF : 4.9/15

Left Out: 112.075 $\pm$ 25.336 χ^2/NDF : 16.1/9

Right Out: -34.034 $\pm$ 27.398 χ^2/NDF : 37.1/18

Left In: 123.092 $\pm$ 25.559 χ^2/NDF : 21.1/8

Left: 117.536 $\pm$ 17.994 χ^2/NDF : 37.3/18

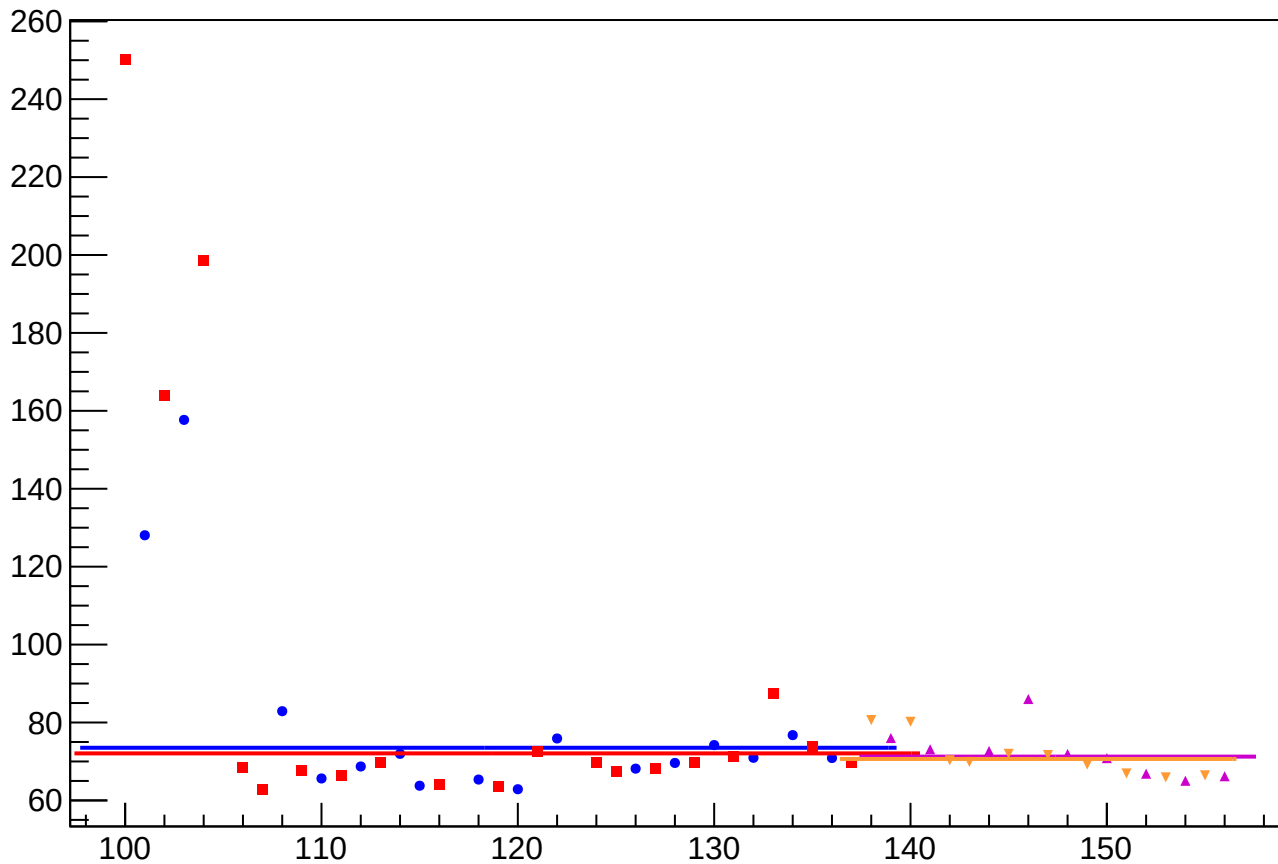
Right: -45.491 $\pm$ 19.612 χ^2/NDF : 42.4/34

In: 41.274 $\pm$ 18.903 χ^2/NDF : 48.6/24

Out: 44.724 $\pm$ 18.602 χ^2/NDF : 68.6/28

All: 43.027 $\pm$ 13.259 χ^2/NDF : 117.2/53

eigen_dit_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.519+/-0.020 χ^2/NDF : 656849.2/15

Left Out: 70.643+/-0.018 χ^2/NDF : 69396.6/9

Right Out: 72.074+/-0.019 χ^2/NDF : 958496.3/18

Left In: 71.245+/-0.018 χ^2/NDF : 94491.7/8

Left: 70.941+/-0.013 χ^2/NDF : 164447.7/18

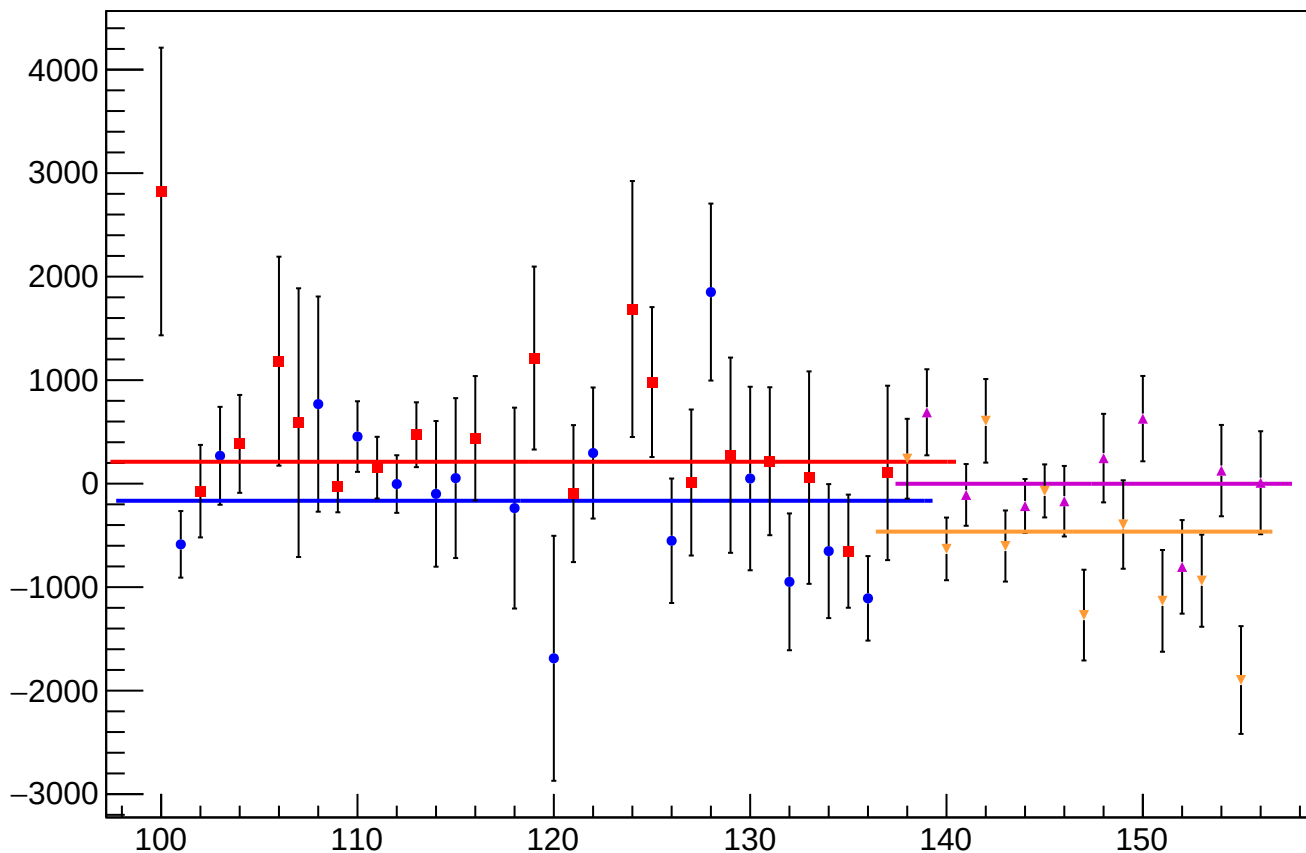
Right: 72.778+/-0.014 χ^2/NDF : 1618058.1/34

In: 72.275+/-0.013 χ^2/NDF : 758512.2/24

Out: 71.303+/-0.013 χ^2/NDF : 1030833.1/28

All: 71.781+/-0.009 χ^2/NDF : 1792033.8/53

asym_sam7_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.498 ± 128.437 χ^2/NDF : 22.6/15

Left Out: -463.522 ± 118.676 χ^2/NDF : 27.2/9

Right Out: 211.347 ± 120.121 χ^2/NDF : 13.6/18

Left In: -1.301 ± 123.315 χ^2/NDF : 9.7/8

Left: -241.270 ± 85.510 χ^2/NDF : 44.2/18

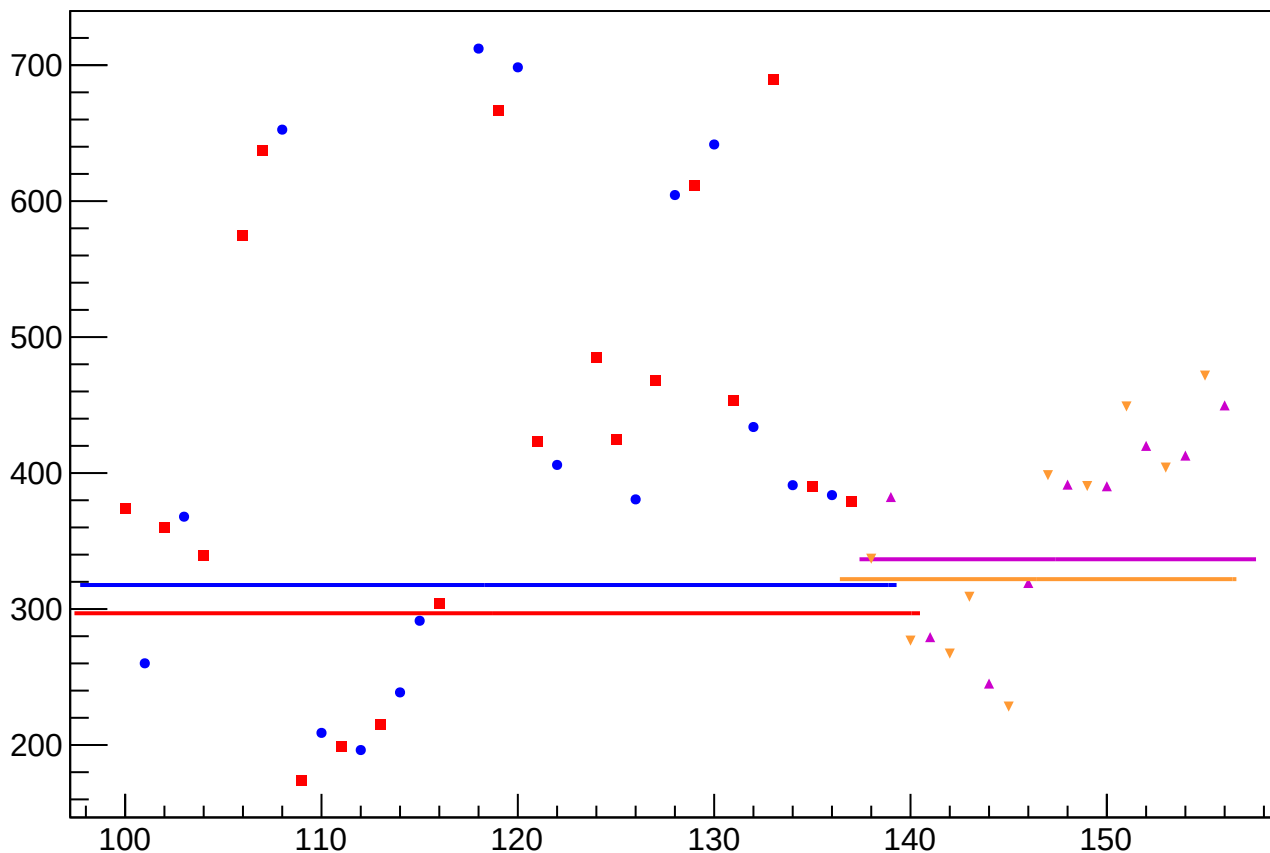
Right: 35.517 ± 87.731 χ^2/NDF : 40.8/34

In: -80.061 ± 88.953 χ^2/NDF : 33.2/24

Out: -130.172 ± 84.423 χ^2/NDF : 56.7/28

All: -106.425 ± 61.235 χ^2/NDF : 90.1/53

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: 321.977 $\pm$ 0.084 χ^2 /NDF: 833450.9/9

Right Out: 296.887 $\pm$ 0.085 χ^2 /NDF: 2541051.2/18

Left In: 336.596 $\pm$ 0.087 χ^2 /NDF: 647165.0/8

Left: 329.006 $\pm$ 0.060 χ^2 /NDF: 1495207.9/18

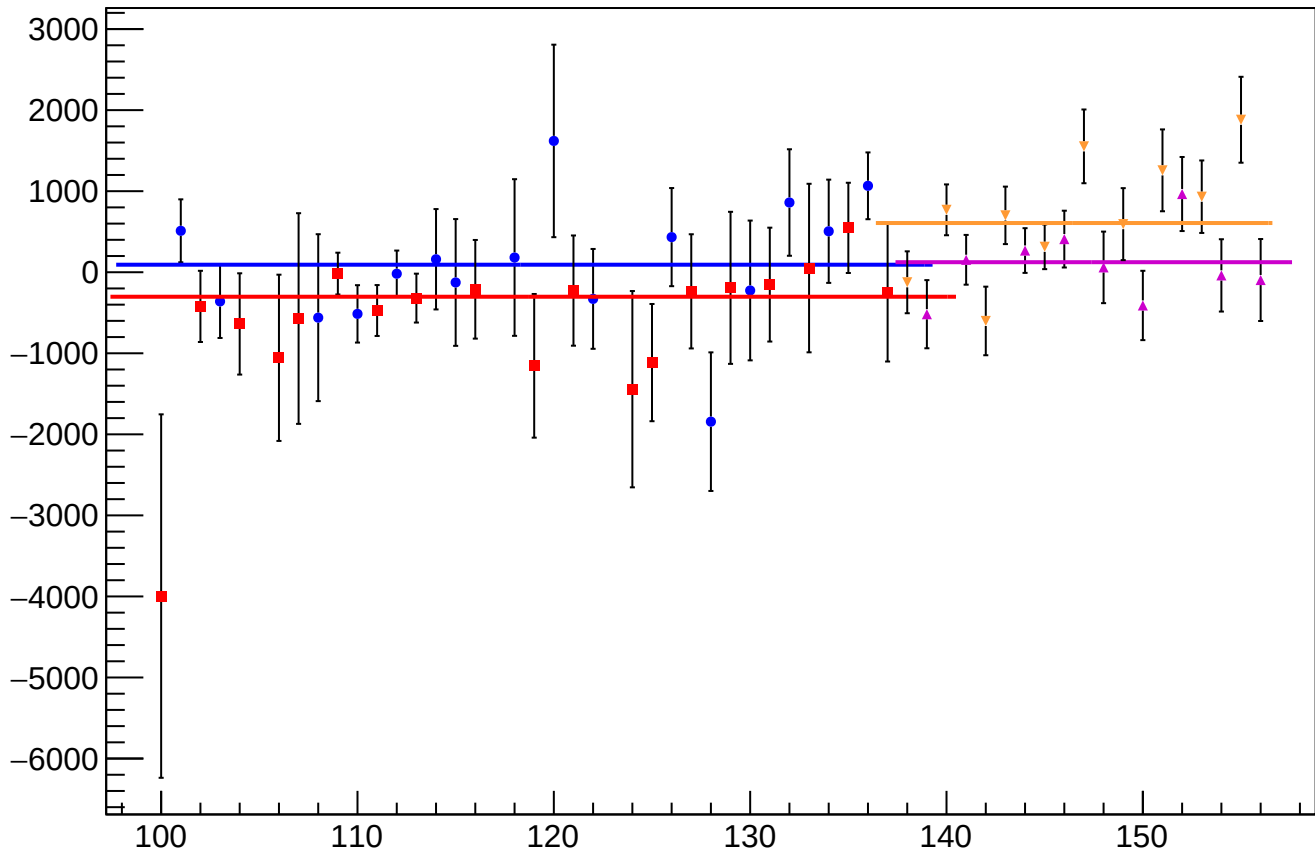
Right: 306.580 $\pm$ 0.062 χ^2 /NDF: 4705187.9/34

In: 327.514 $\pm$ 0.063 χ^2 /NDF: 2806006.5/24

Out: 309.584 $\pm$ 0.060 χ^2 /NDF: 3418660.0/28

All: 318.081 $\pm$ 0.043 χ^2 /NDF: 6267417.5/53

asym_sam7_mean vs Slug, Sign Corrected



Right In: 92.803+/-131.927 χ^2/NDF : 20.8/15

Left Out: 607.177+/-123.009 χ^2/NDF : 25.6/9

Right Out: -302.273+/-123.916 χ^2/NDF : 10.8/18

Left In: 123.833+/-127.118 χ^2/NDF : 8.6/8

Left: 373.444+/-88.397 χ^2/NDF : 41.6/18

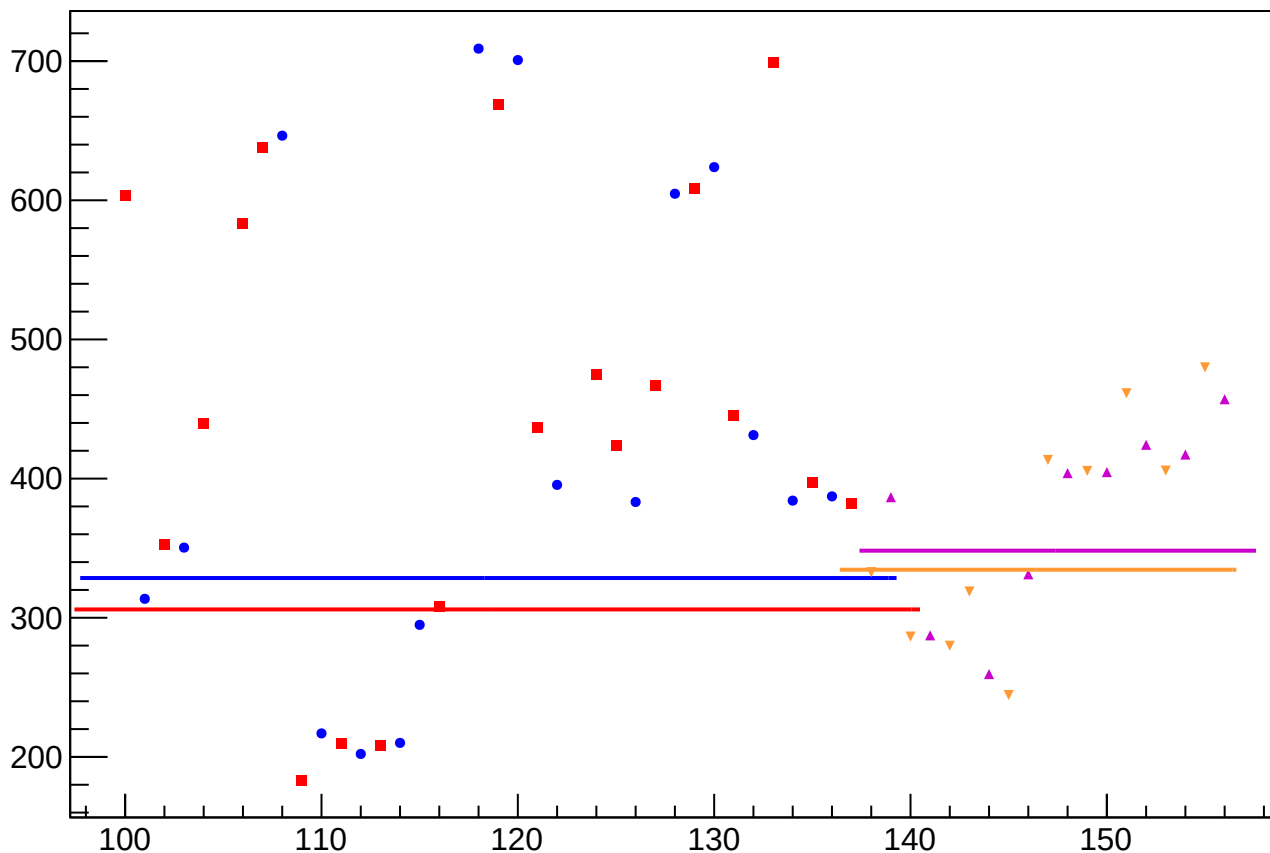
Right: -117.093+/-90.322 χ^2/NDF : 36.4/34

In: 108.894+/-91.539 χ^2/NDF : 29.4/24

Out: 155.795+/-87.299 χ^2/NDF : 63.5/28

All: 133.456+/-63.176 χ^2/NDF : 93.1/53

asym_sam7_rms vs Slug, Sign Corrected



Right In: 328.567 $\pm$ 0.093 χ^2/NDF : 1958873.4/15

Left Out: 334.525 $\pm$ 0.087 χ^2/NDF : 735922.1/9

Right Out: 305.988 $\pm$ 0.088 χ^2/NDF : 2527463.5/18

Left In: 348.213 $\pm$ 0.090 χ^2/NDF : 569452.2/8

Left: 341.144 $\pm$ 0.063 χ^2/NDF : 1317350.5/18

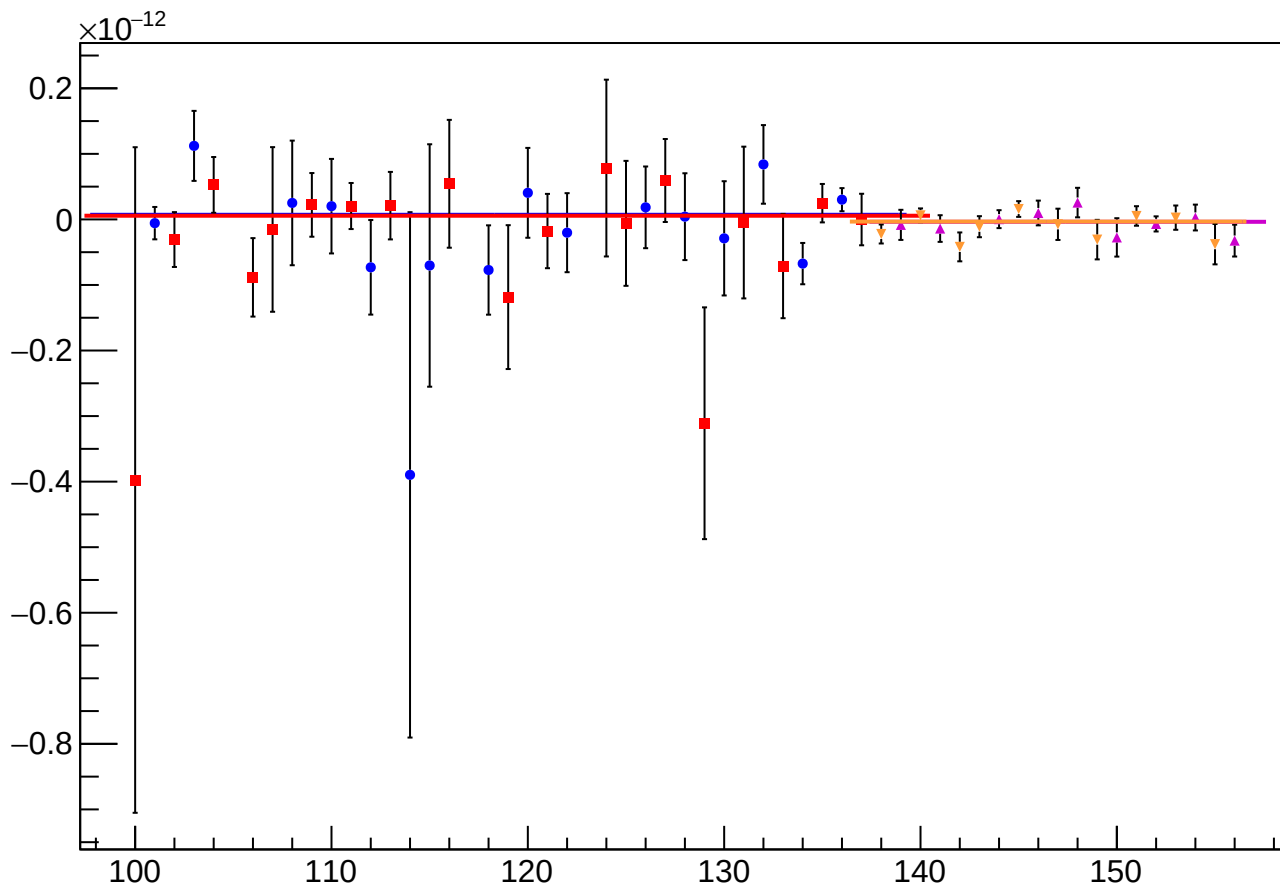
Right: 316.571 $\pm$ 0.064 χ^2/NDF : 4517458.9/34

In: 338.755 $\pm$ 0.065 χ^2/NDF : 2551326.3/24

Out: 320.362 $\pm$ 0.062 χ^2/NDF : 3316809.8/28

All: 329.122 $\pm$ 0.045 χ^2/NDF : 5910422.2/53

asym_sam7_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 : 10.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 12.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.8/8

Left: -0.000+/-0.000 χ^2/NDF : 15.7/18

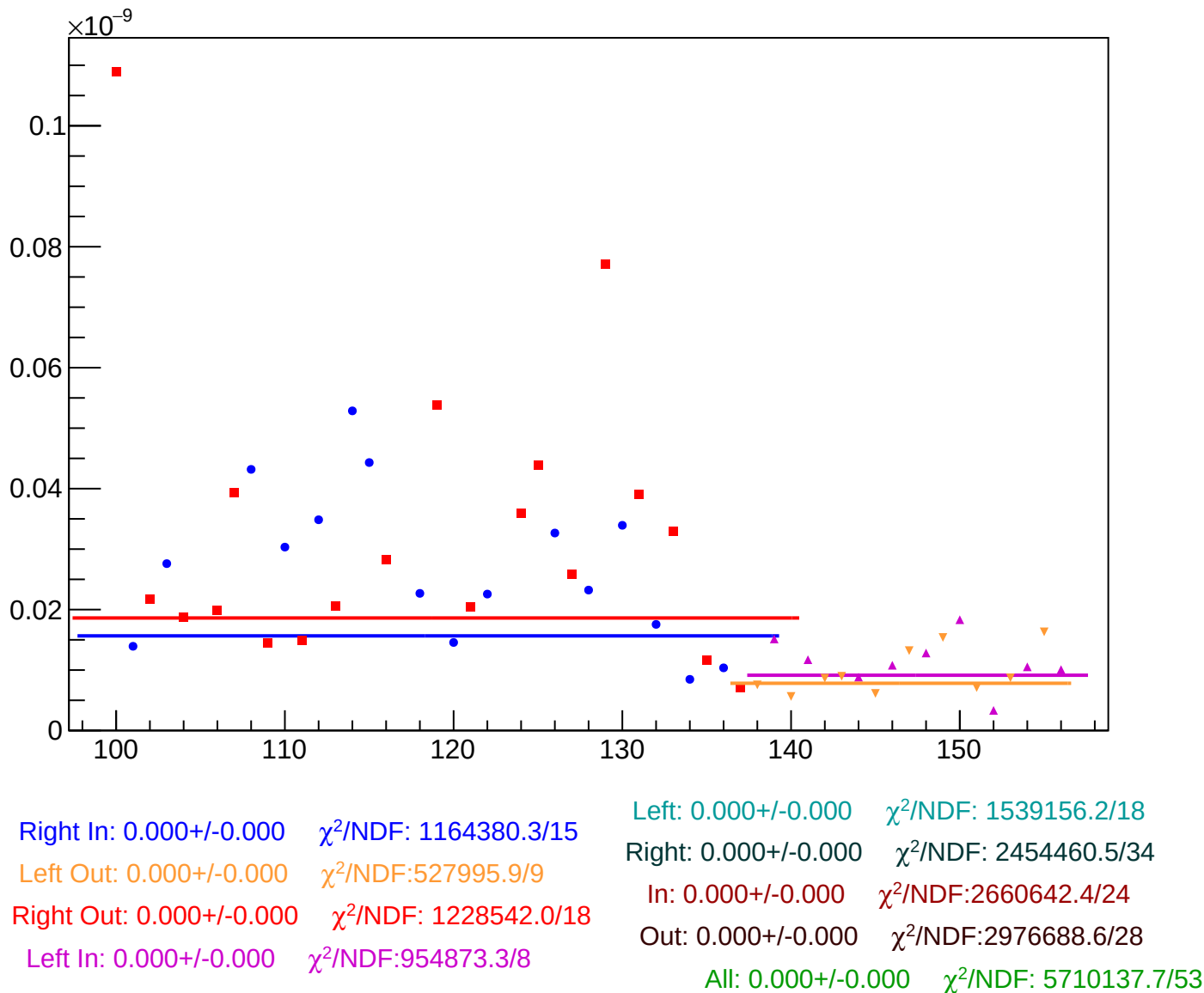
Right: 0.000+/-0.000 χ^2/NDF : 30.5/34

In: -0.000+/-0.000 χ^2/NDF : 23.3/24

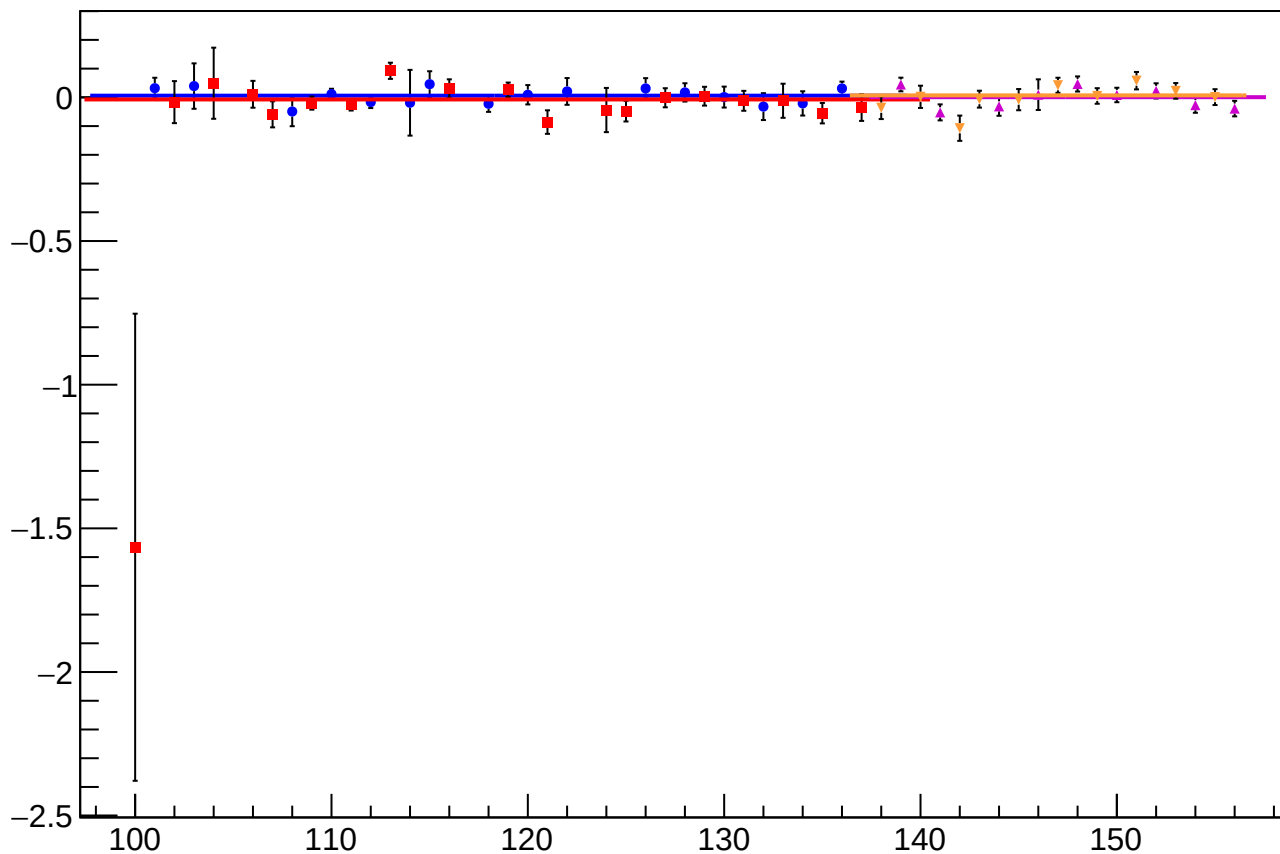
Out: -0.000+/-0.000 χ^2/NDF : 24.1/28

All: -0.000+/-0.000 χ^2/NDF : 47.4/53

asym_sam7_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.007 ± 0.010 $\chi^2/\text{NDF}: 13.4/9$

Right Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 29.8/18$

Left In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 15.1/8$

Left: 0.004 ± 0.007 $\chi^2/\text{NDF}: 28.7/18$

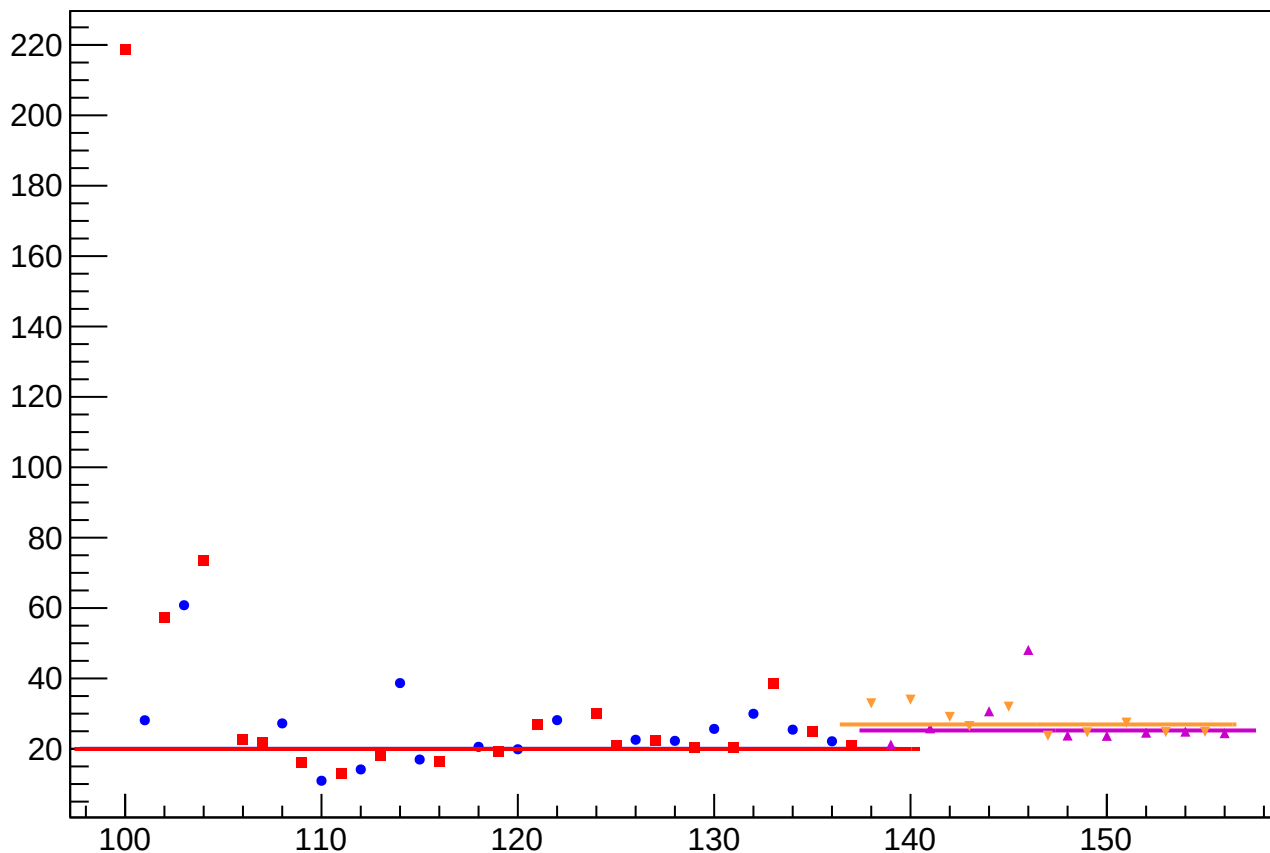
Right: -0.001 ± 0.006 $\chi^2/\text{NDF}: 39.0/34$

In: 0.004 ± 0.006 $\chi^2/\text{NDF}: 23.1/24$

Out: -0.002 ± 0.006 $\chi^2/\text{NDF}: 44.4/28$

All: 0.001 ± 0.004 $\chi^2/\text{NDF}: 67.9/53$

asym_sam7_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641371.9/15

Left Out: 26.928 $\pm$ 0.007 χ^2 /NDF:224053.4/9

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716895.2/18

Left In: 25.218 $\pm$ 0.007 χ^2 /NDF:497569.6/8

Left: 26.023 $\pm$ 0.005 χ^2 /NDF: 753419.8/18

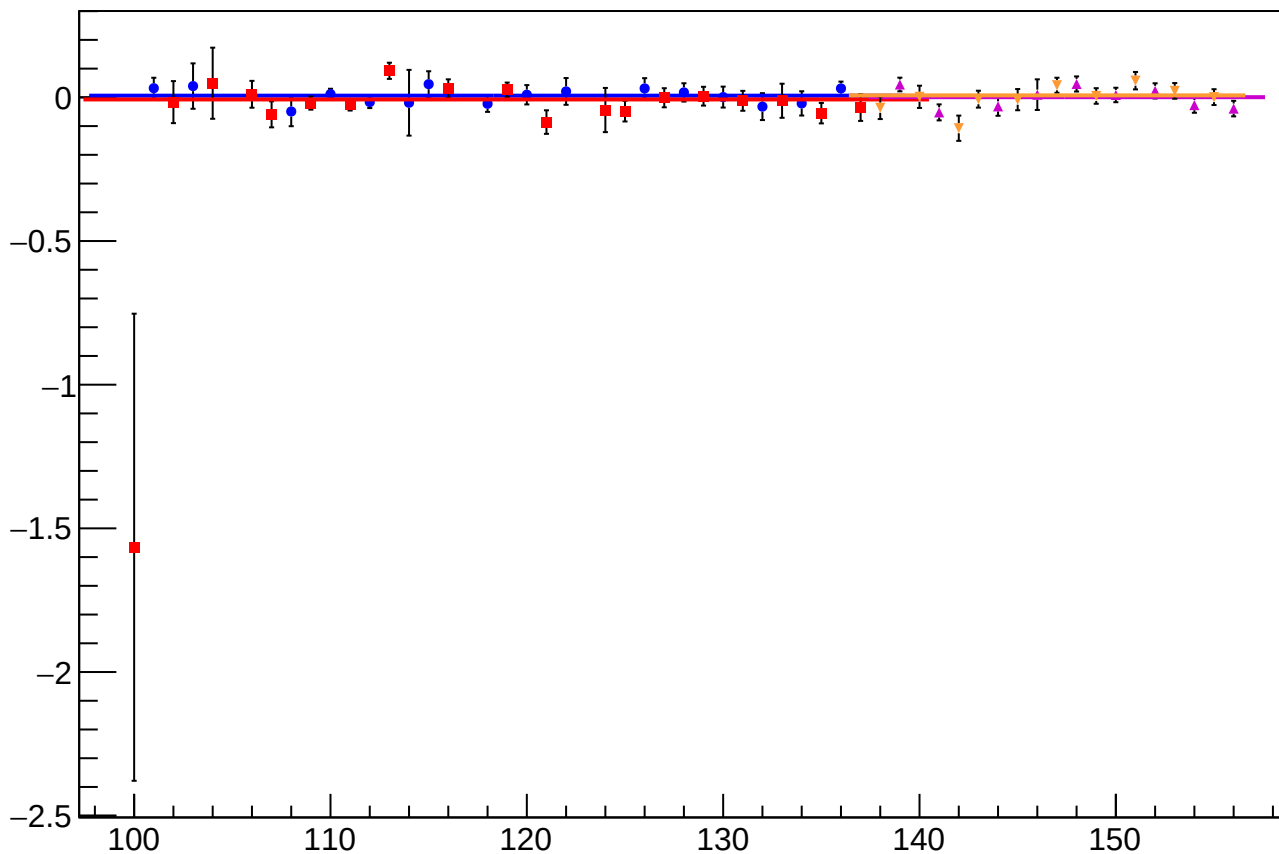
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358287.6/34

In: 22.272 $\pm$ 0.004 χ^2 /NDF:2494418.7/24

Out: 22.767 $\pm$ 0.004 χ^2 /NDF:2537065.2/28

All: 22.515 $\pm$ 0.003 χ^2 /NDF: 5037857.0/53

asym_sam7_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15

Left Out: 0.007 $\pm$ 0.010 χ^2 /NDF:13.4/9

Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:15.1/8

Left: 0.004 $\pm$ 0.007 χ^2 /NDF: 28.7/18

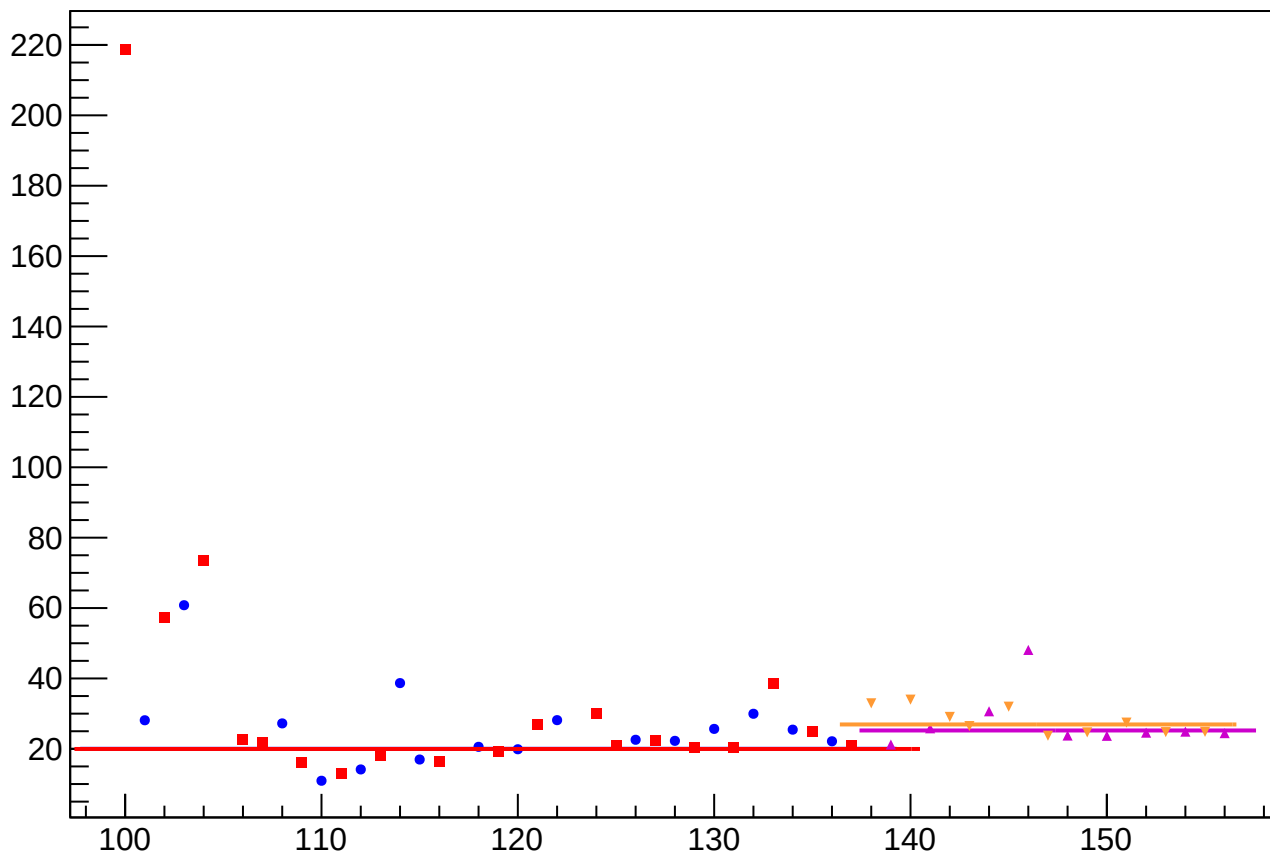
Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:23.1/24

Out: -0.002 $\pm$ 0.006 χ^2 /NDF:44.4/28

All: 0.001 $\pm$ 0.004 χ^2 /NDF: 67.9/53

asym_sam7_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641371.9/15

Left Out: 26.928 $\pm$ 0.007 χ^2 /NDF:224053.4/9

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716895.2/18

Left In: 25.218 $\pm$ 0.007 χ^2 /NDF:497569.6/8

Left: 26.023 $\pm$ 0.005 χ^2 /NDF: 753419.8/18

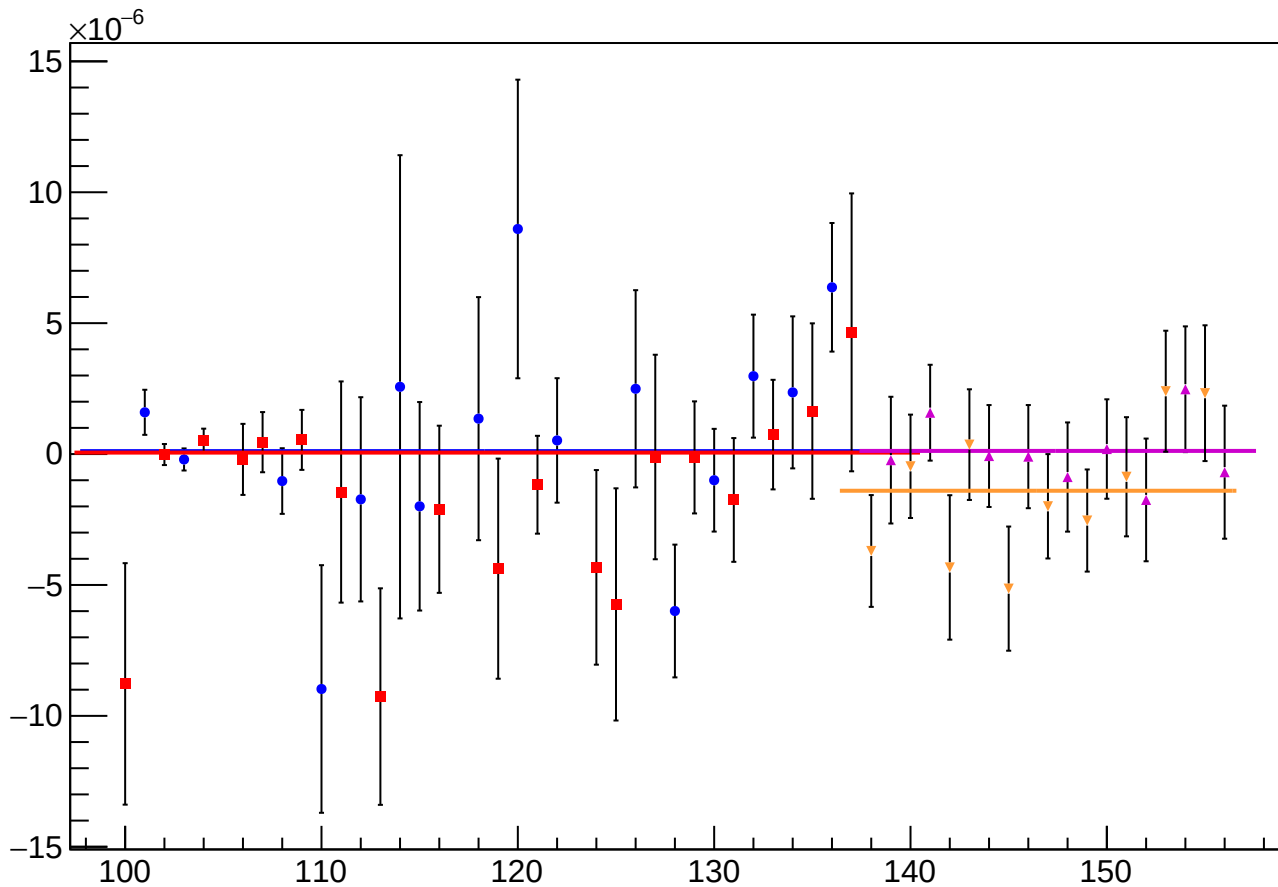
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358287.6/34

In: 22.272 $\pm$ 0.004 χ^2 /NDF:2494418.7/24

Out: 22.767 $\pm$ 0.004 χ^2 /NDF:2537065.2/28

All: 22.515 $\pm$ 0.003 χ^2 /NDF: 5037857.0/53

asym_sam7_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.0/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:10.9/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:2.6/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.9/18

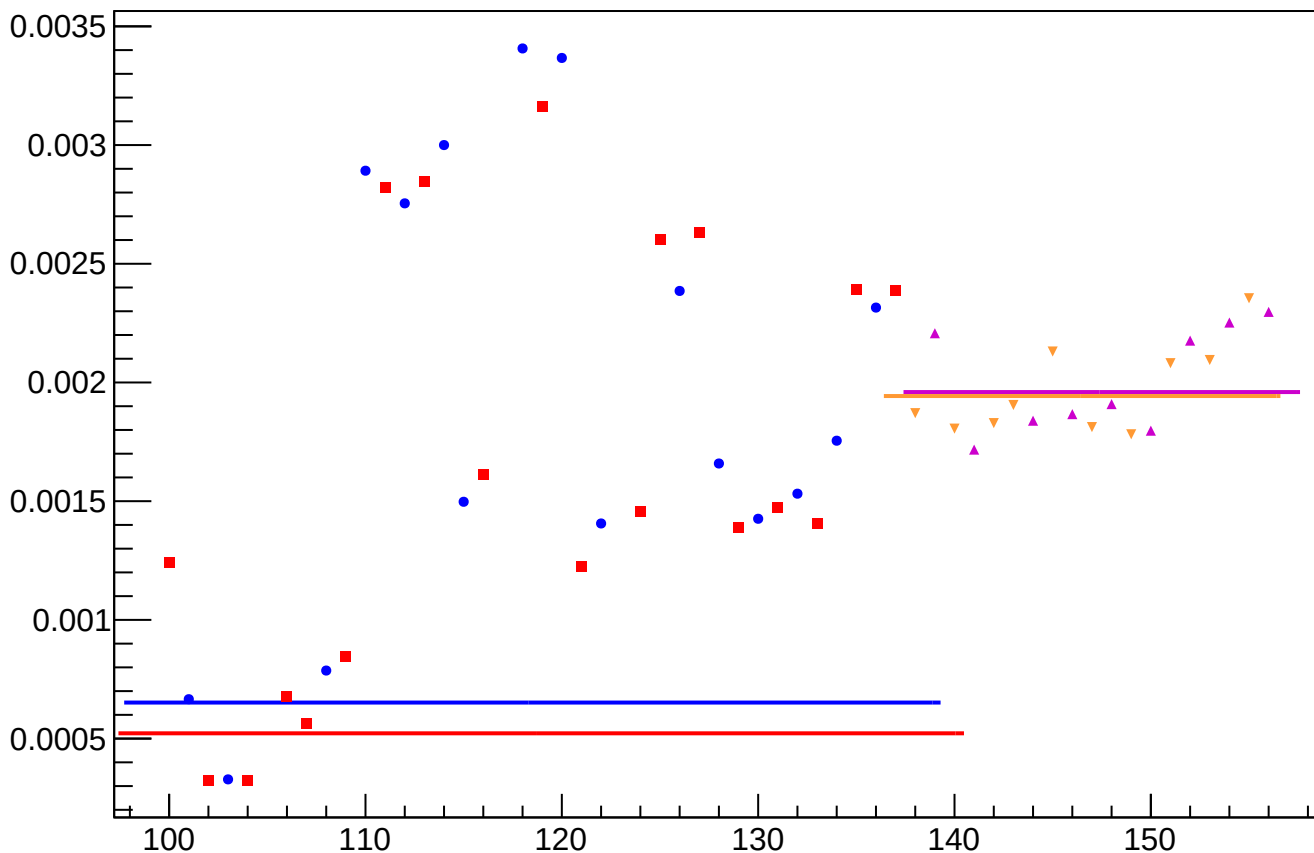
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.2/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:28.7/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.9/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 60.9/53

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 :117248.4/9

Right Out: 0.001+/-0.000 χ^2/NDF : 6676790.5/18

Left In: 0.002+/-0.000 χ^2/NDF :166165.8/8

Left: 0.002+/-0.000 χ^2/NDF : 283984.7/18

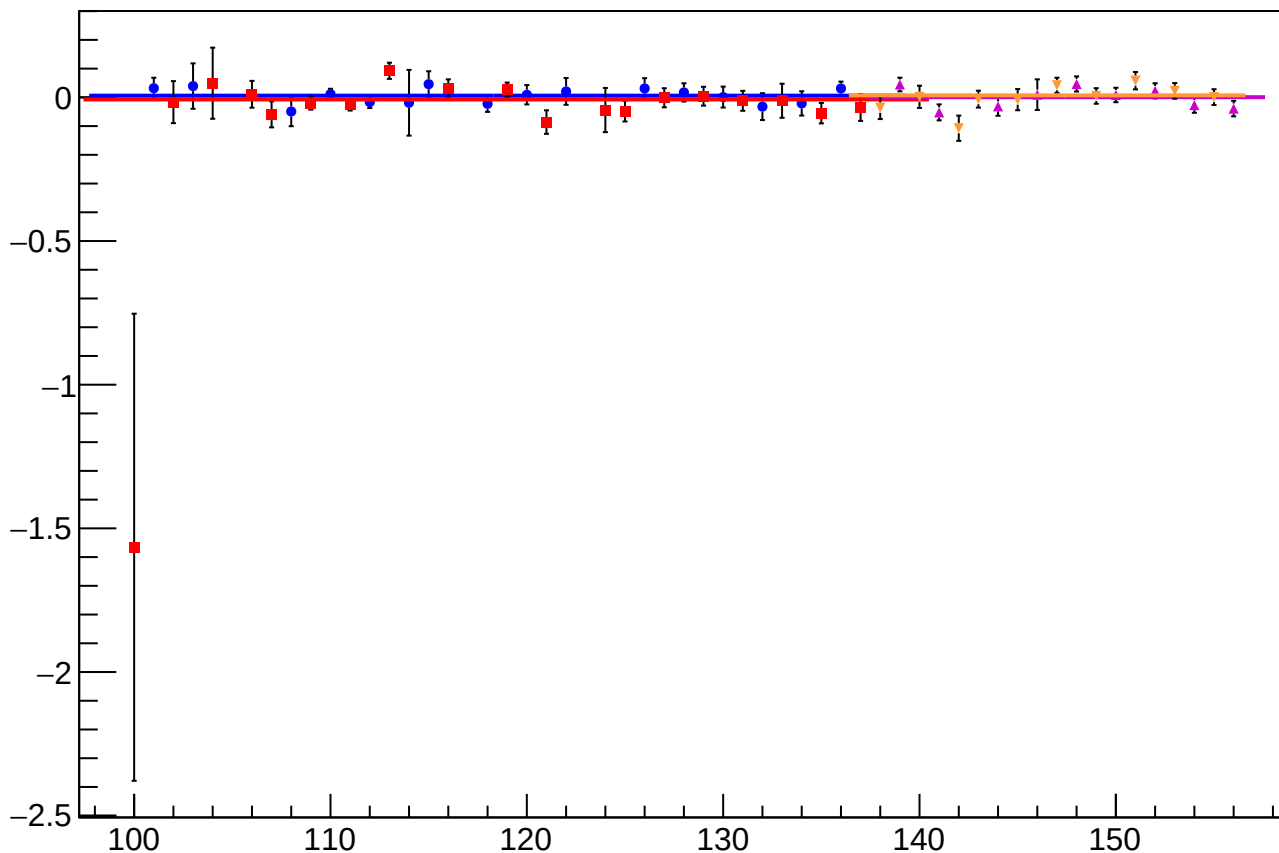
Right: 0.001+/-0.000 χ^2/NDF : 13221881.1/34

In: 0.001+/-0.000 χ^2/NDF :12139951.2/24

Out: 0.001+/-0.000 χ^2/NDF :14067397.2/28

All: 0.001+/-0.000 χ^2/NDF : 26712172.4/53

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: 0.007 ± 0.010 $\chi^2/\text{NDF}: 13.4/9$

Right Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 29.8/18$

Left In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 15.1/8$

Left: 0.004 ± 0.007 $\chi^2/\text{NDF}: 28.7/18$

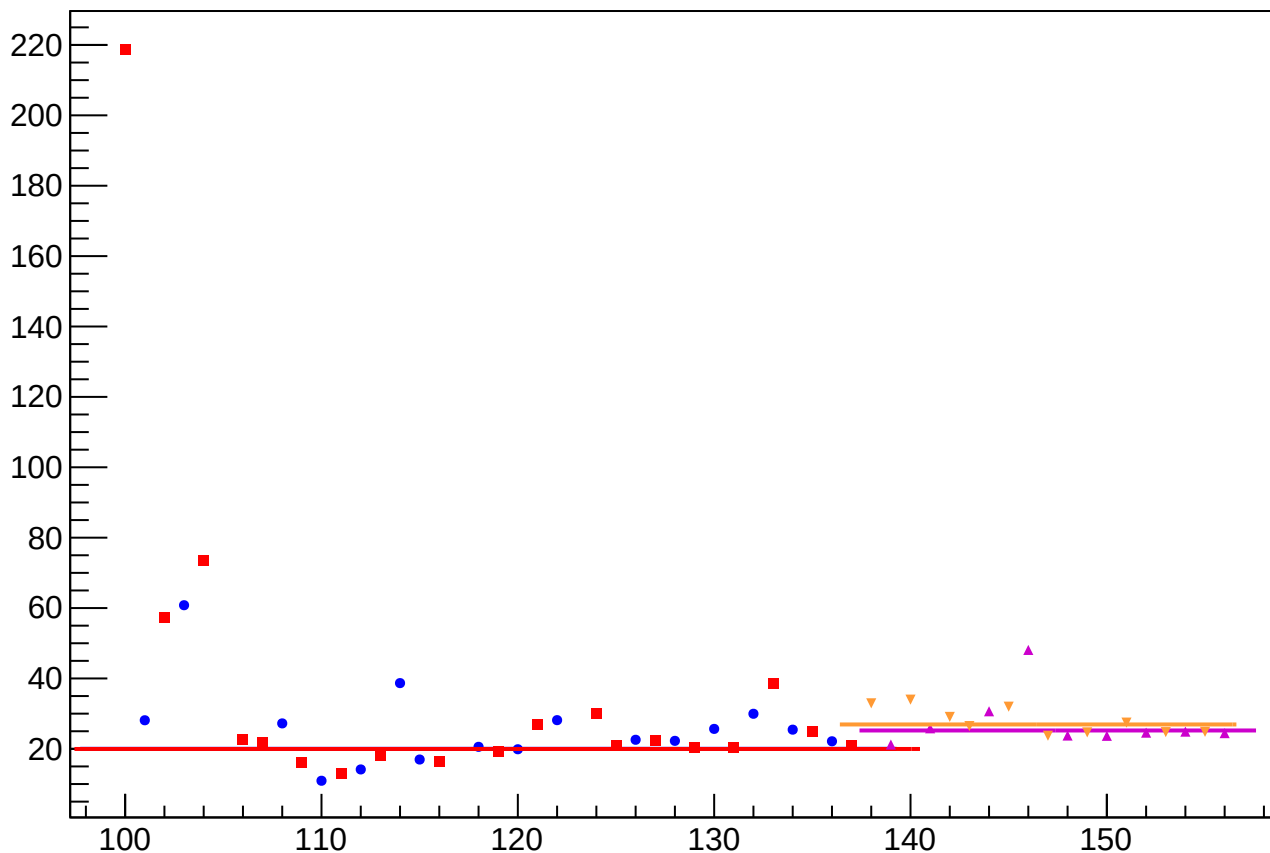
Right: -0.001 ± 0.006 $\chi^2/\text{NDF}: 39.0/34$

In: 0.004 ± 0.006 $\chi^2/\text{NDF}: 23.1/24$

Out: -0.002 ± 0.006 $\chi^2/\text{NDF}: 44.4/28$

All: 0.001 ± 0.004 $\chi^2/\text{NDF}: 67.9/53$

asym_sam7_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641197.3/15

Left Out: 26.928 $\pm$ 0.007 χ^2 /NDF: 224067.3/9

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716830.0/18

Left In: 25.218 $\pm$ 0.007 χ^2 /NDF: 497578.7/8

Left: 26.023 $\pm$ 0.005 χ^2 /NDF: 753444.8/18

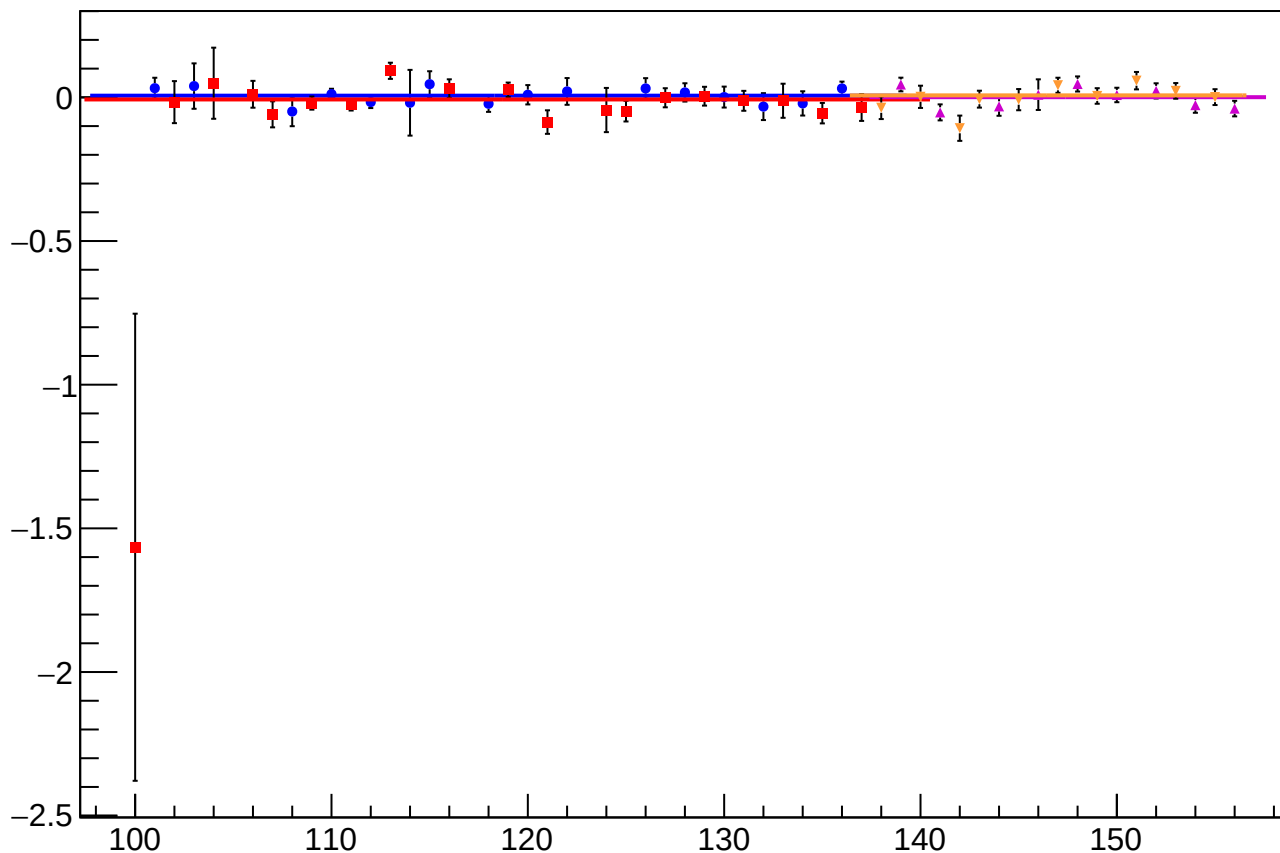
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358048.3/34

In: 22.273 $\pm$ 0.004 χ^2 /NDF: 2494186.0/24

Out: 22.767 $\pm$ 0.004 χ^2 /NDF: 2537000.7/28

All: 22.515 $\pm$ 0.003 χ^2 /NDF: 5037554.6/53

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15

Left Out: 0.007 $\pm$ 0.010 χ^2 /NDF:13.4/9

Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:15.1/8

Left: 0.004 $\pm$ 0.007 χ^2 /NDF: 28.7/18

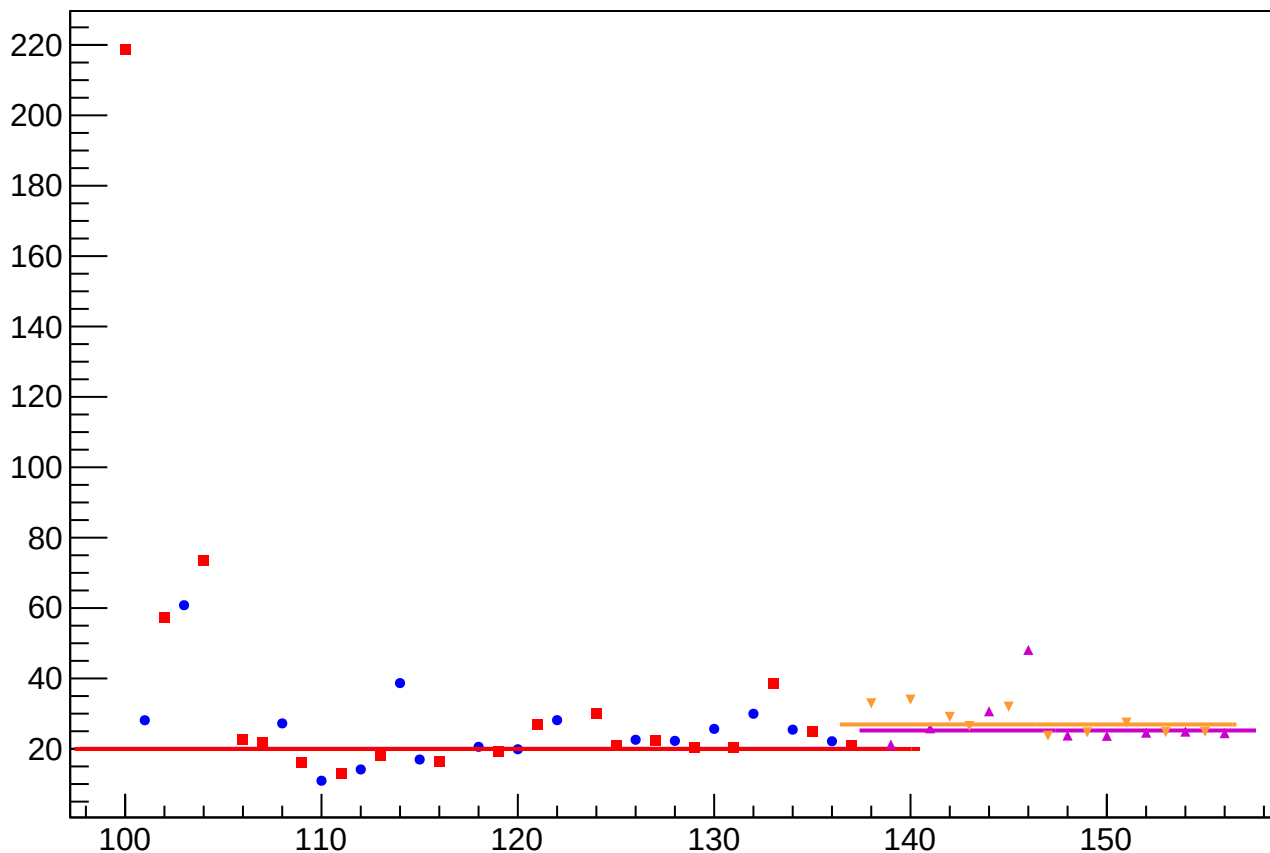
Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:23.1/24

Out: -0.002 $\pm$ 0.006 χ^2 /NDF:44.4/28

All: 0.001 $\pm$ 0.004 χ^2 /NDF: 67.9/53

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: 26.928 $\pm$ 0.007 χ^2 /NDF: 224067.3/9

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716830.0/18

Left In: 25.218 $\pm$ 0.007 χ^2 /NDF: 497578.7/8

Left: 26.023 $\pm$ 0.005 χ^2 /NDF: 753444.8/18

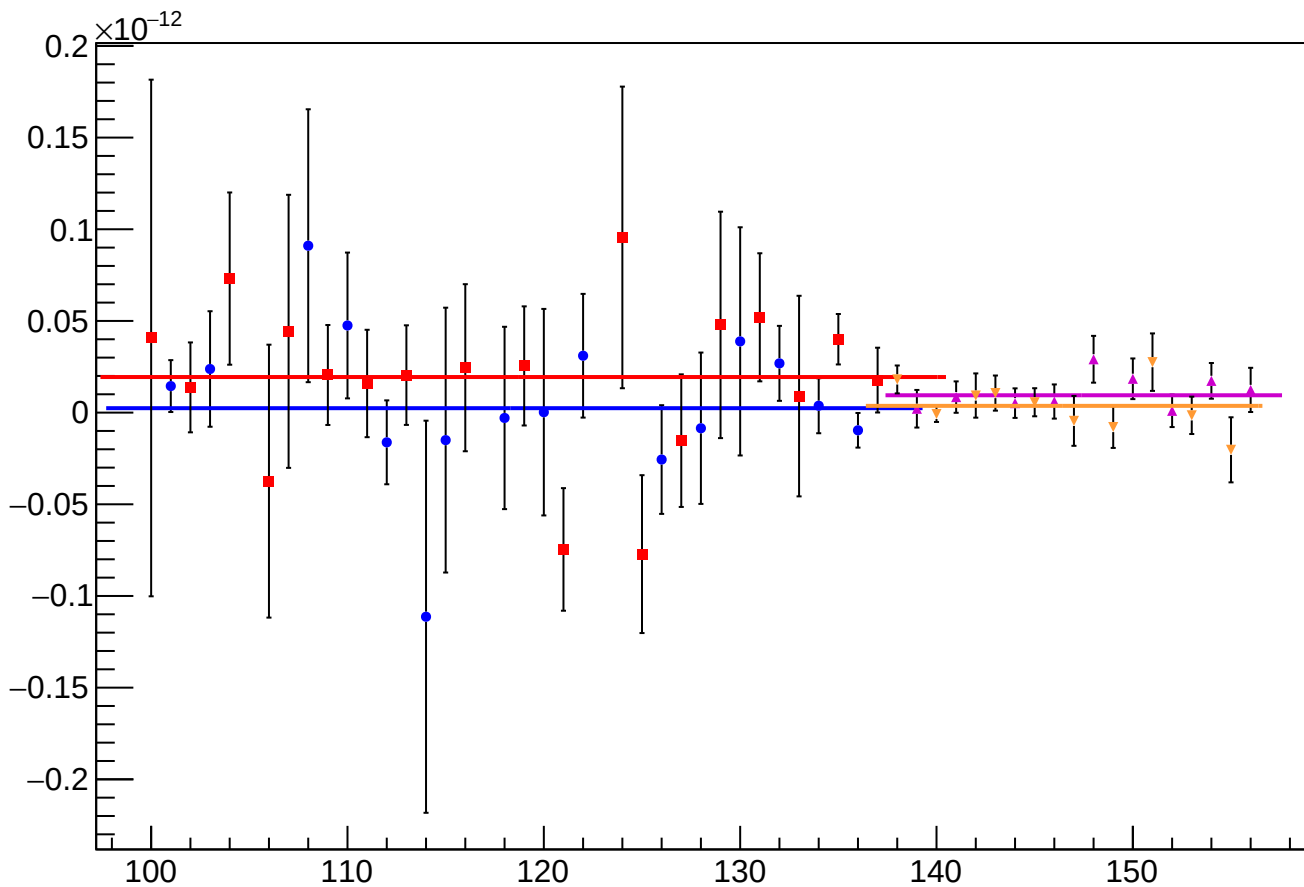
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358048.3/34

In: 22.273 $\pm$ 0.004 χ^2 /NDF: 2494186.0/24

Out: 22.767 $\pm$ 0.004 χ^2 /NDF: 2537000.7/28

All: 22.515 $\pm$ 0.003 χ^2 /NDF: 5037554.6/53

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 : 11.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 20.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.6/8

Left: 0.000+/-0.000 χ^2/NDF : 18.7/18

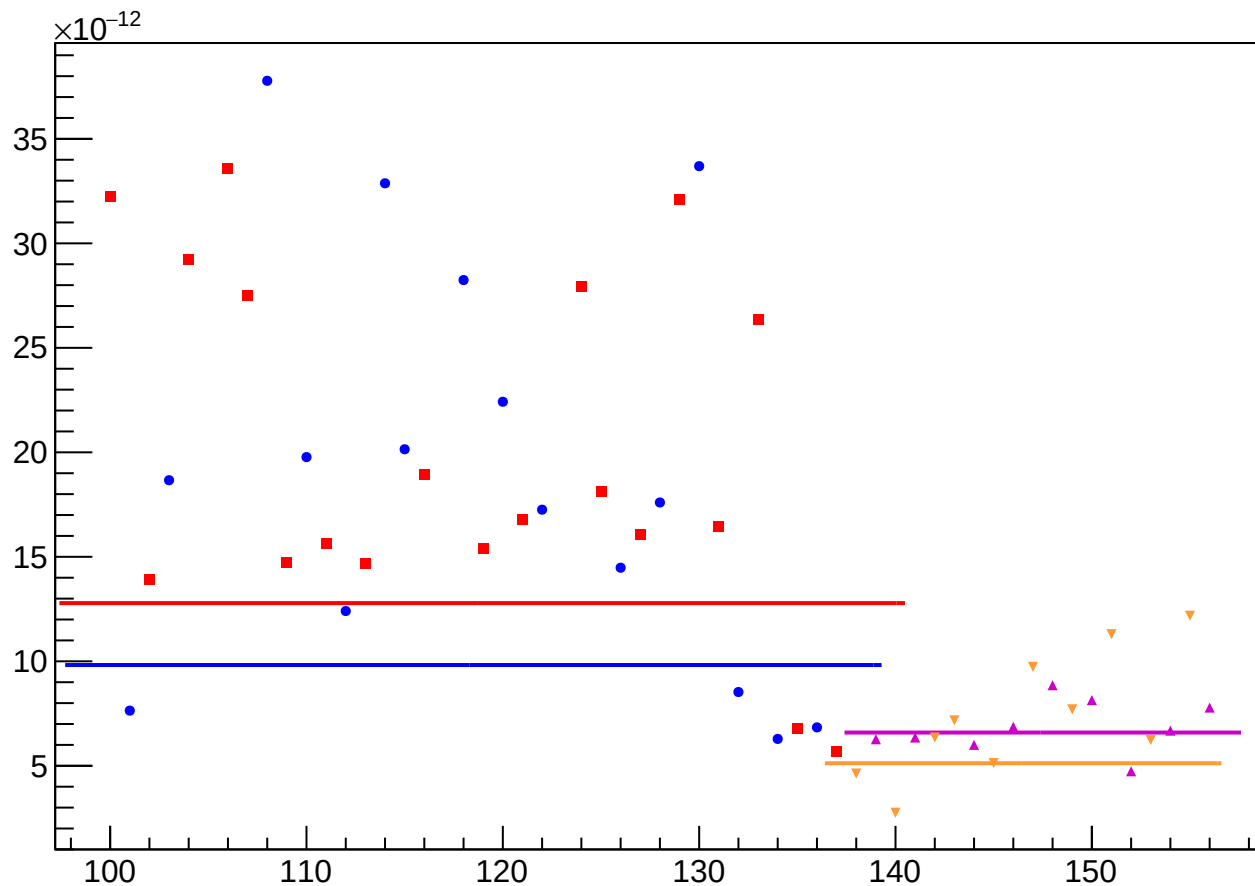
Right: 0.000+/-0.000 χ^2/NDF : 34.6/34

In: 0.000+/-0.000 χ^2/NDF : 17.6/24

Out: 0.000+/-0.000 χ^2/NDF : 35.8/28

All: 0.000+/-0.000 χ^2/NDF : 53.7/53

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 : 1698693.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1798852.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 225326.4/8

Left: 0.000+/-0.000 χ^2/NDF : 2163986.8/18

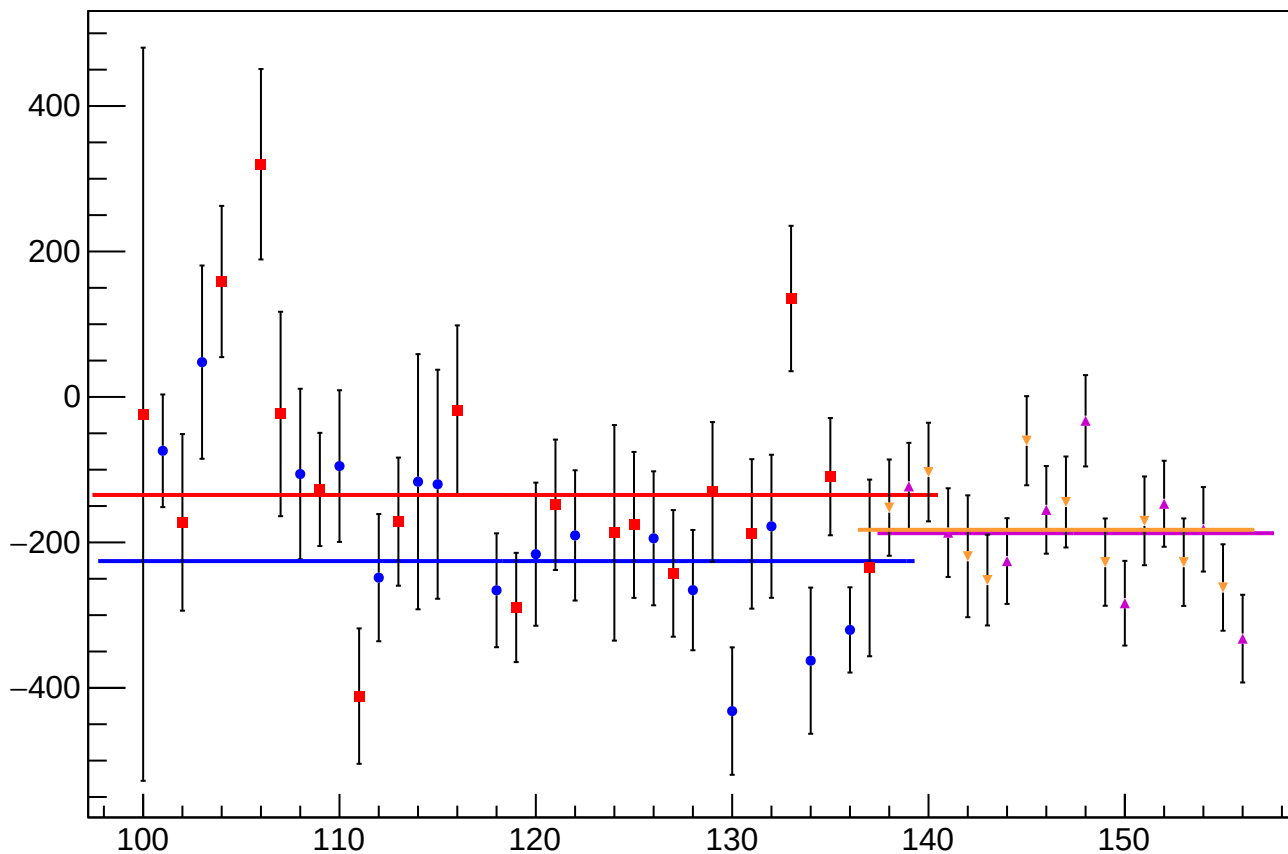
Right: 0.000+/-0.000 χ^2/NDF : 3988919.3/34

In: 0.000+/-0.000 χ^2/NDF : 2685440.5/24

Out: 0.000+/-0.000 χ^2/NDF : 5550327.7/28

All: 0.000+/-0.000 χ^2/NDF : 8458810.2/53

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -182.693 ± 20.109 $\chi^2/\text{NDF}: 10.3/9$

Right Out: -134.762 ± 23.192 $\chi^2/\text{NDF}: 45.3/18$

Left In: -187.319 ± 19.931 $\chi^2/\text{NDF}: 16.9/8$

Left: -185.027 ± 14.156 $\chi^2/\text{NDF}: 27.2/18$

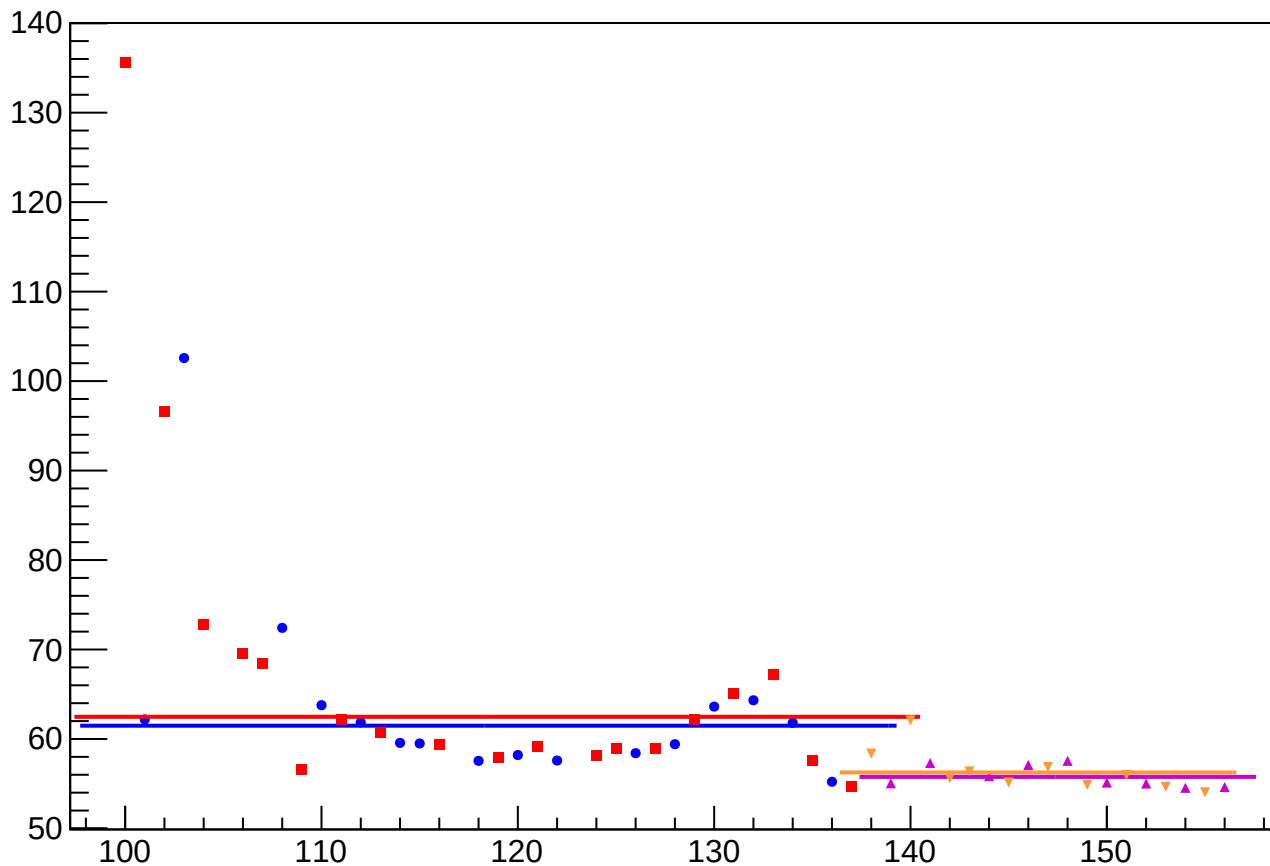
Right: -180.371 ± 16.373 $\chi^2/\text{NDF}: 75.6/34$

In: -203.679 ± 15.095 $\chi^2/\text{NDF}: 41.1/24$

Out: -162.123 ± 15.193 $\chi^2/\text{NDF}: 58.0/28$

All: -183.035 ± 10.708 $\chi^2/\text{NDF}: 102.9/53$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2/NDF : 250669.2/15

Left Out: 56.261 $\pm$ 0.014 χ^2/NDF : 23133.2/9

Right Out: 62.476 $\pm$ 0.016 χ^2/NDF : 281148.3/18

Left In: 55.763 $\pm$ 0.014 χ^2/NDF : 6342.5/8

Left: 56.009 $\pm$ 0.010 χ^2/NDF : 30095.4/18

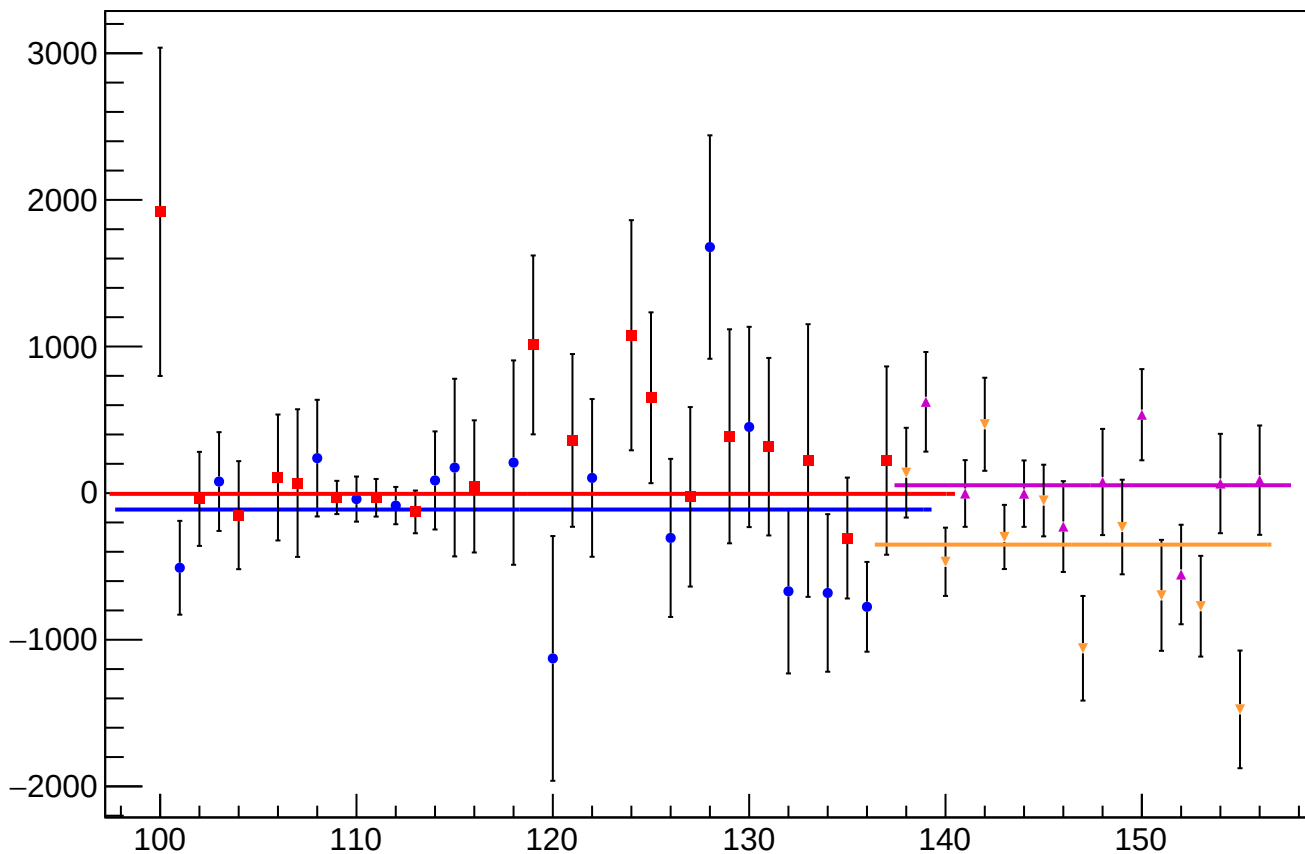
Right: 61.979 $\pm$ 0.012 χ^2/NDF : 533645.0/34

In: 58.203 $\pm$ 0.011 χ^2/NDF : 327328.3/24

Out: 58.928 $\pm$ 0.011 χ^2/NDF : 386269.3/28

All: 58.563 $\pm$ 0.008 χ^2/NDF : 715891.3/53

asym_sam8_reg_correction_mean vs Slug, Sign Corrected



Right In: -111.885+/-76.212 χ^2/NDF : 18.5/15

Left Out: -351.138+/-92.920 χ^2/NDF : 25.3/9

Right Out: -4.893+/-63.933 χ^2/NDF : 11.6/18

Left In: 53.745+/-99.766 χ^2/NDF : 9.4/8

Left: -163.065+/-67.996 χ^2/NDF : 43.5/18

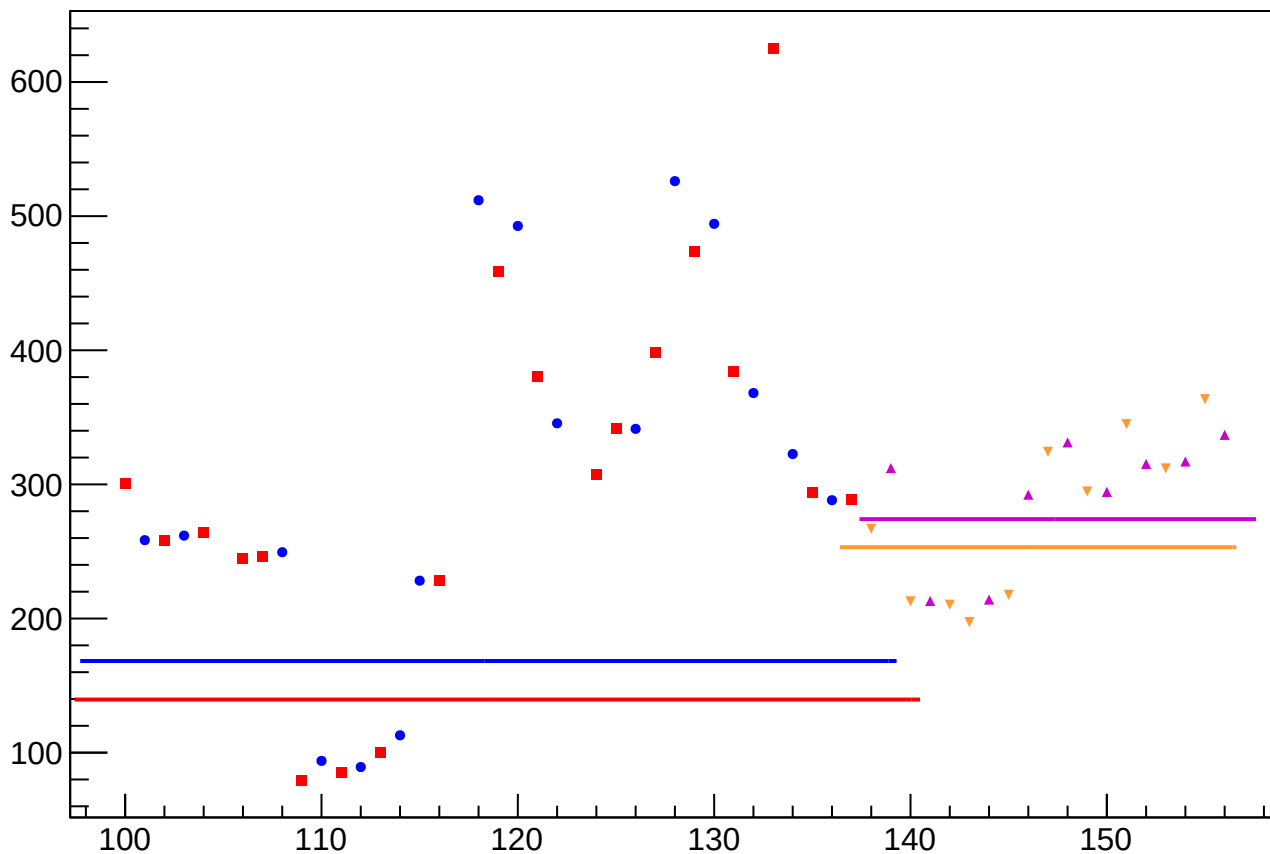
Right: -49.085+/-48.981 χ^2/NDF : 31.3/34

In: -50.848+/-60.563 χ^2/NDF : 29.6/24

Out: -116.141+/-52.670 χ^2/NDF : 46.4/28

All: -88.024+/-39.743 χ^2/NDF : 76.6/53

asym_sam8_reg_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544046.8/15

Left Out: 253.147+/-0.066 χ^2/NDF : 713089.0/9

Right Out: 139.594+/-0.045 χ^2/NDF : 5154153.5/18

Left In: 274.105+/-0.071 χ^2/NDF : 493221.2/8

Left: 262.882+/-0.048 χ^2/NDF : 1253574.2/18

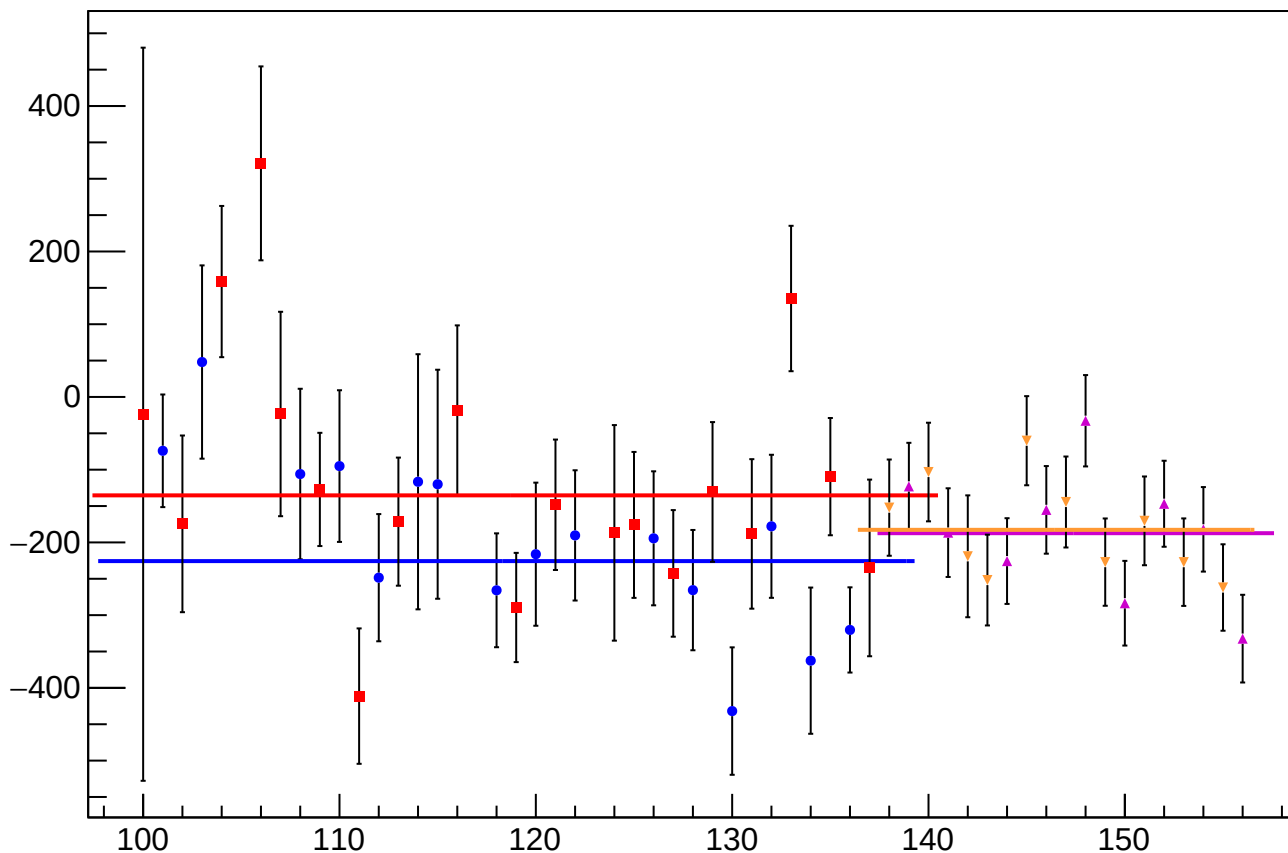
Right: 151.463+/-0.035 χ^2/NDF : 9865092.4/34

In: 207.309+/-0.043 χ^2/NDF : 6456981.5/24

Out: 176.078+/-0.037 χ^2/NDF : 7894421.4/28

All: 189.527+/-0.028 χ^2/NDF : 14654222.7/53

cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -182.691 ± 20.109 $\chi^2/\text{NDF}: 10.3/9$

Right Out: -135.311 ± 23.205 $\chi^2/\text{NDF}: 44.9/18$

Left In: -187.318 ± 19.931 $\chi^2/\text{NDF}: 16.9/8$

Left: -185.025 ± 14.156 $\chi^2/\text{NDF}: 27.2/18$

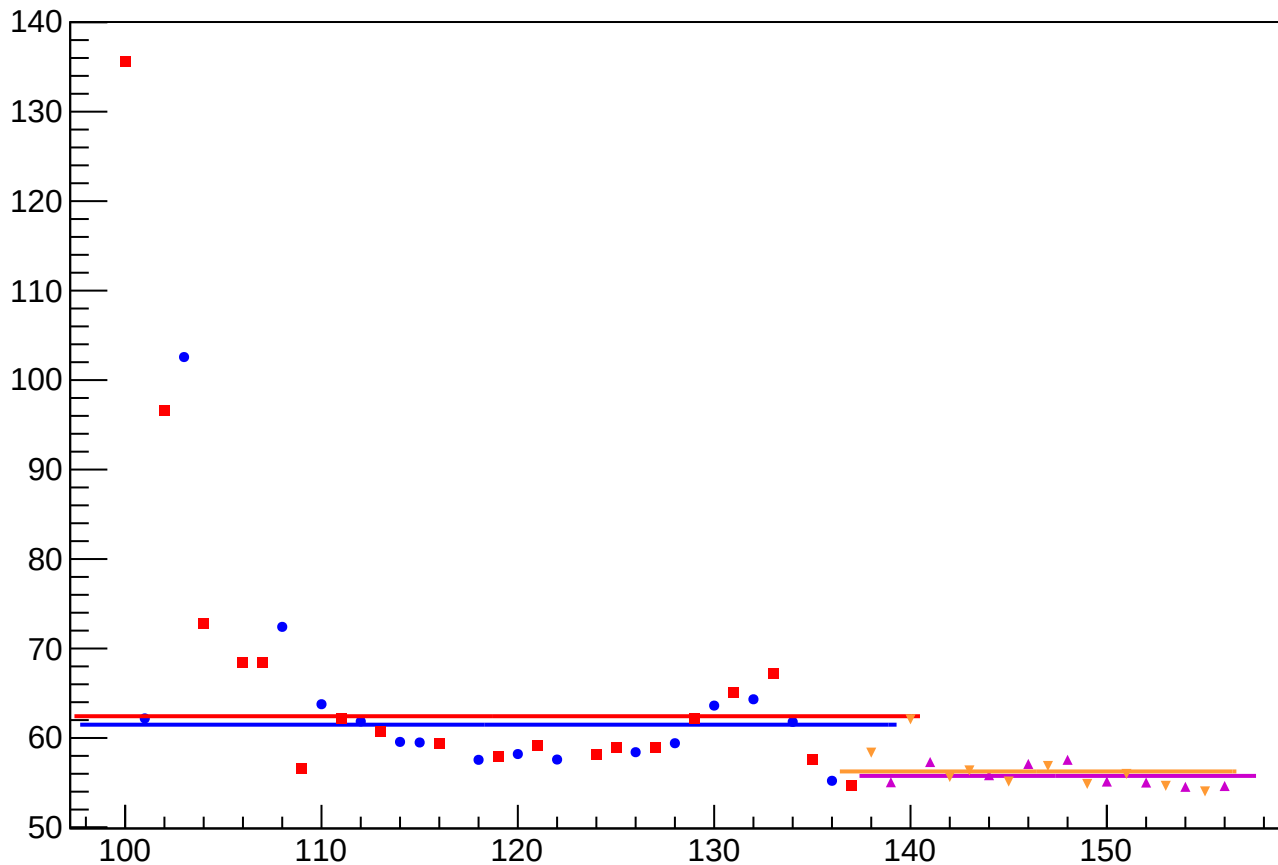
Right: -180.670 ± 16.378 $\chi^2/\text{NDF}: 75.1/34$

In: -203.679 ± 15.095 $\chi^2/\text{NDF}: 41.1/24$

Out: -162.371 ± 15.197 $\chi^2/\text{NDF}: 57.6/28$

All: -183.163 ± 10.710 $\chi^2/\text{NDF}: 102.4/53$

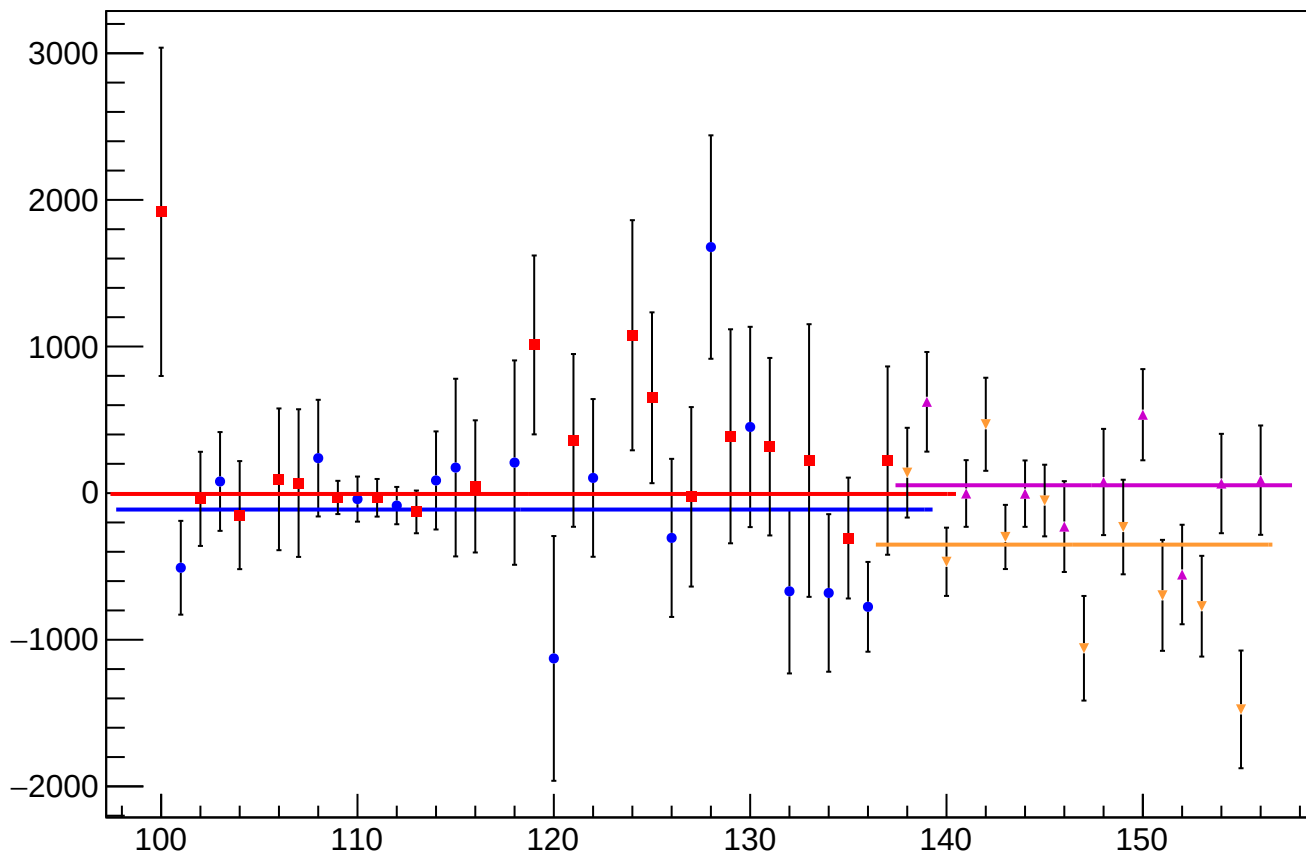
cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250671.7/15
 Left Out: 56.261 $\pm$ 0.014 χ^2 /NDF:23133.2/9
 Right Out: 62.433 $\pm$ 0.016 χ^2 /NDF: 279408.8/18
 Left In: 55.763 $\pm$ 0.014 χ^2 /NDF:6342.5/8

Left: 56.009 $\pm$ 0.010 χ^2 /NDF: 30095.4/18
 Right: 61.958 $\pm$ 0.012 χ^2 /NDF: 531751.4/34
 In: 58.203 $\pm$ 0.011 χ^2 /NDF:327330.9/24
 Out: 58.908 $\pm$ 0.011 χ^2 /NDF:383343.8/28
 All: 58.553 $\pm$ 0.008 χ^2 /NDF: 712841.7/53

asym_sam8_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866+/-76.213 χ^2/NDF : 18.5/15

Left Out: -351.135+/-92.920 χ^2/NDF : 25.3/9

Right Out: -5.616+/-64.085 χ^2/NDF : 11.6/18

Left In: 53.742+/-99.766 χ^2/NDF : 9.4/8

Left: -163.064+/-67.996 χ^2/NDF : 43.5/18

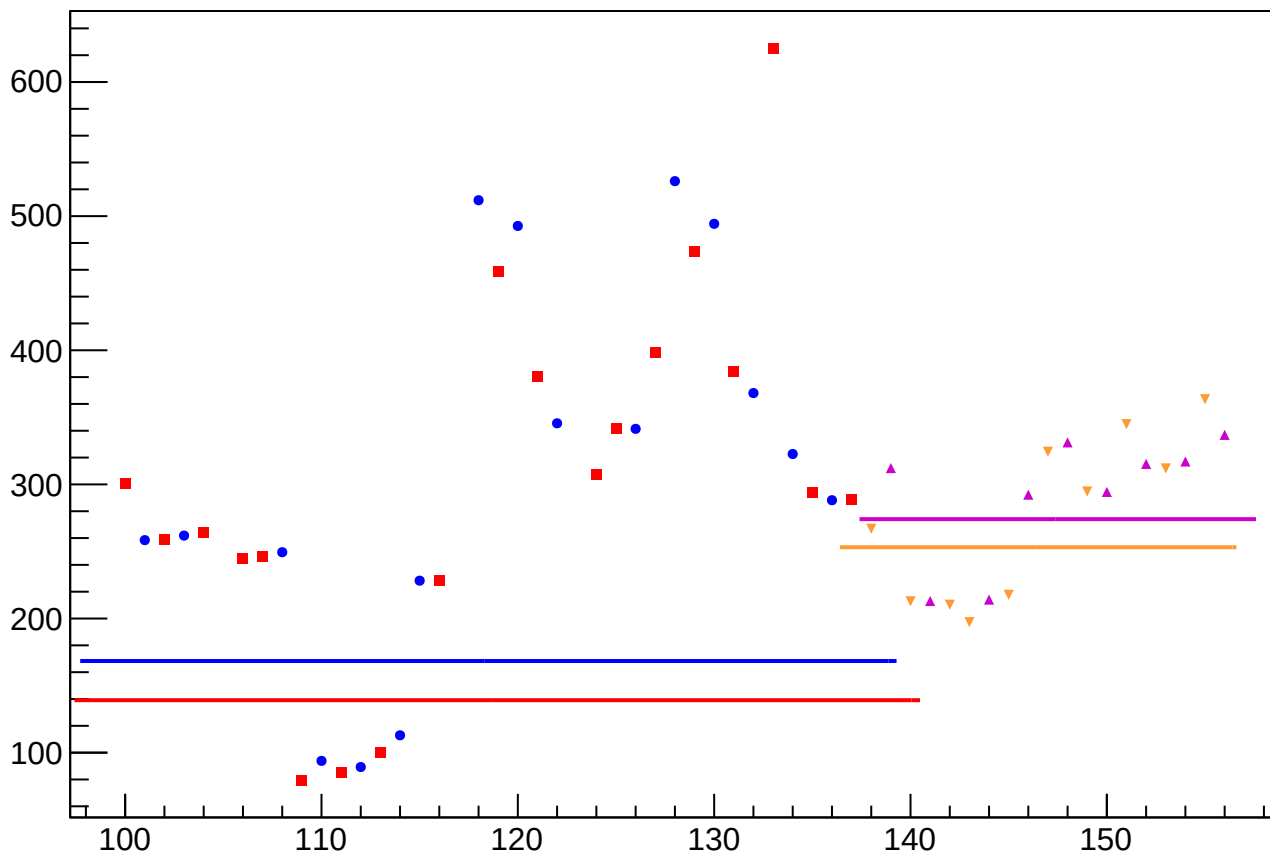
Right: -49.624+/-49.049 χ^2/NDF : 31.2/34

In: -50.837+/-60.563 χ^2/NDF : 29.6/24

Out: -116.989+/-52.755 χ^2/NDF : 46.3/28

All: -88.450+/-39.779 χ^2/NDF : 76.6/53

asym_sam8_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544100.8/15

Left Out: 253.147+/-0.066 χ^2/NDF : 713093.7/9

Right Out: 139.105+/-0.045 χ^2/NDF : 5130011.5/18

Left In: 274.105+/-0.071 χ^2/NDF : 493221.2/8

Left: 262.882+/-0.048 χ^2/NDF : 1253580.4/18

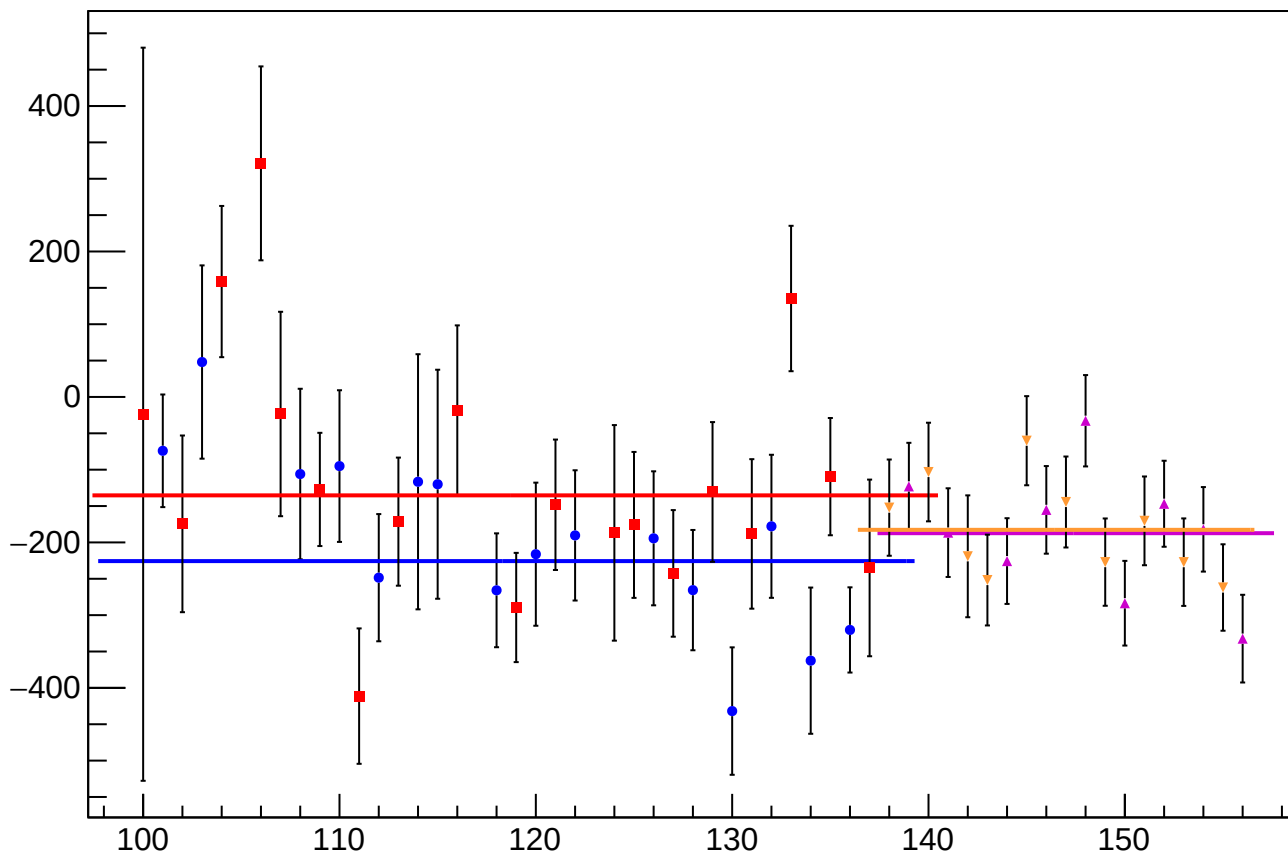
Right: 151.210+/-0.035 χ^2/NDF : 9846393.6/34

In: 207.309+/-0.043 χ^2/NDF : 6457025.7/24

Out: 175.864+/-0.037 χ^2/NDF : 7884643.9/28

All: 189.430+/-0.028 χ^2/NDF : 14648224.0/53

eigen_cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -182.691 ± 20.109 $\chi^2/\text{NDF}: 10.3/9$

Right Out: -135.311 ± 23.205 $\chi^2/\text{NDF}: 44.9/18$

Left In: -187.318 ± 19.931 $\chi^2/\text{NDF}: 16.9/8$

Left: -185.025 ± 14.156 $\chi^2/\text{NDF}: 27.2/18$

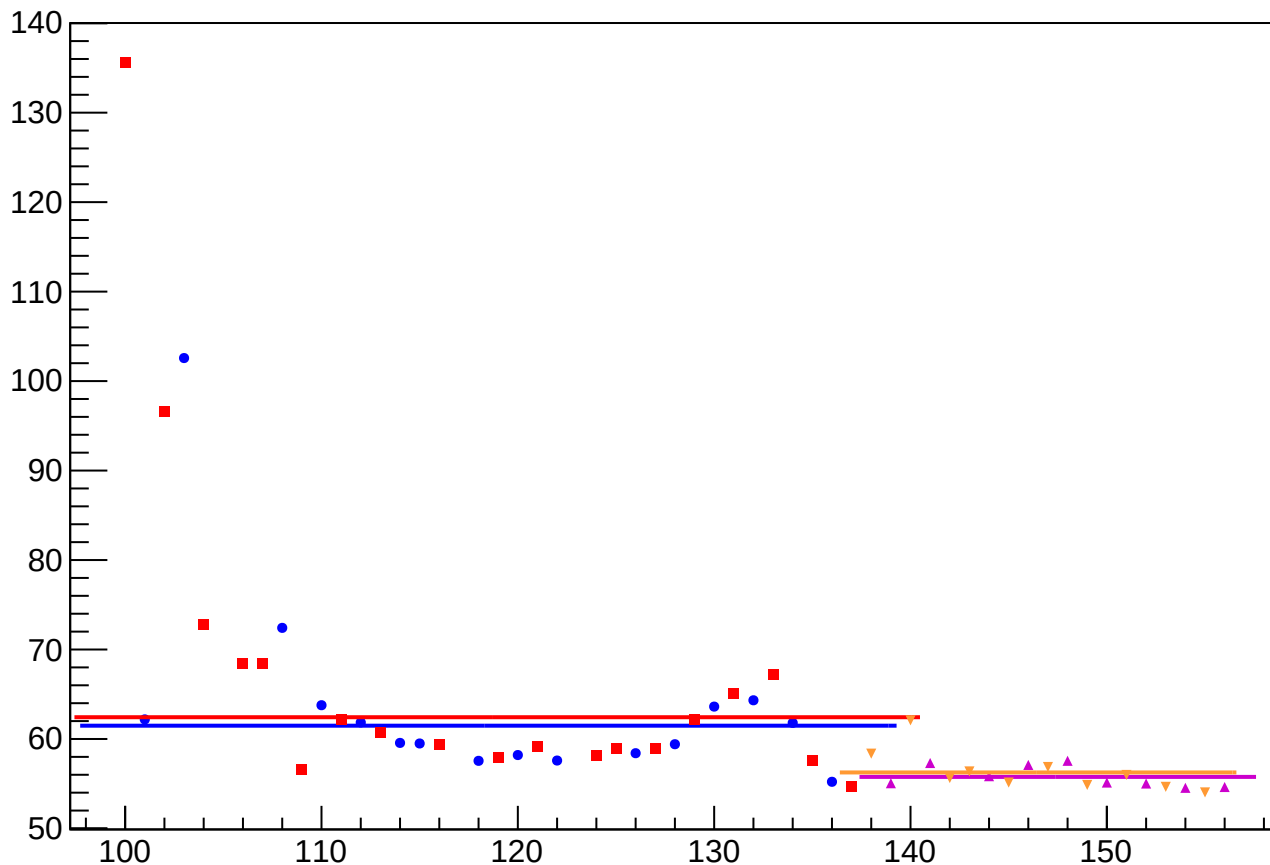
Right: -180.670 ± 16.378 $\chi^2/\text{NDF}: 75.1/34$

In: -203.679 ± 15.095 $\chi^2/\text{NDF}: 41.1/24$

Out: -162.371 ± 15.197 $\chi^2/\text{NDF}: 57.6/28$

All: -183.163 ± 10.710 $\chi^2/\text{NDF}: 102.4/53$

eigen_cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250671.7/15

Left Out: 56.261 $\pm$ 0.014 χ^2 /NDF:23133.2/9

Right Out: 62.433 $\pm$ 0.016 χ^2 /NDF: 279408.8/18

Left In: 55.763 $\pm$ 0.014 χ^2 /NDF:6342.5/8

Left: 56.009 $\pm$ 0.010 χ^2 /NDF: 30095.4/18

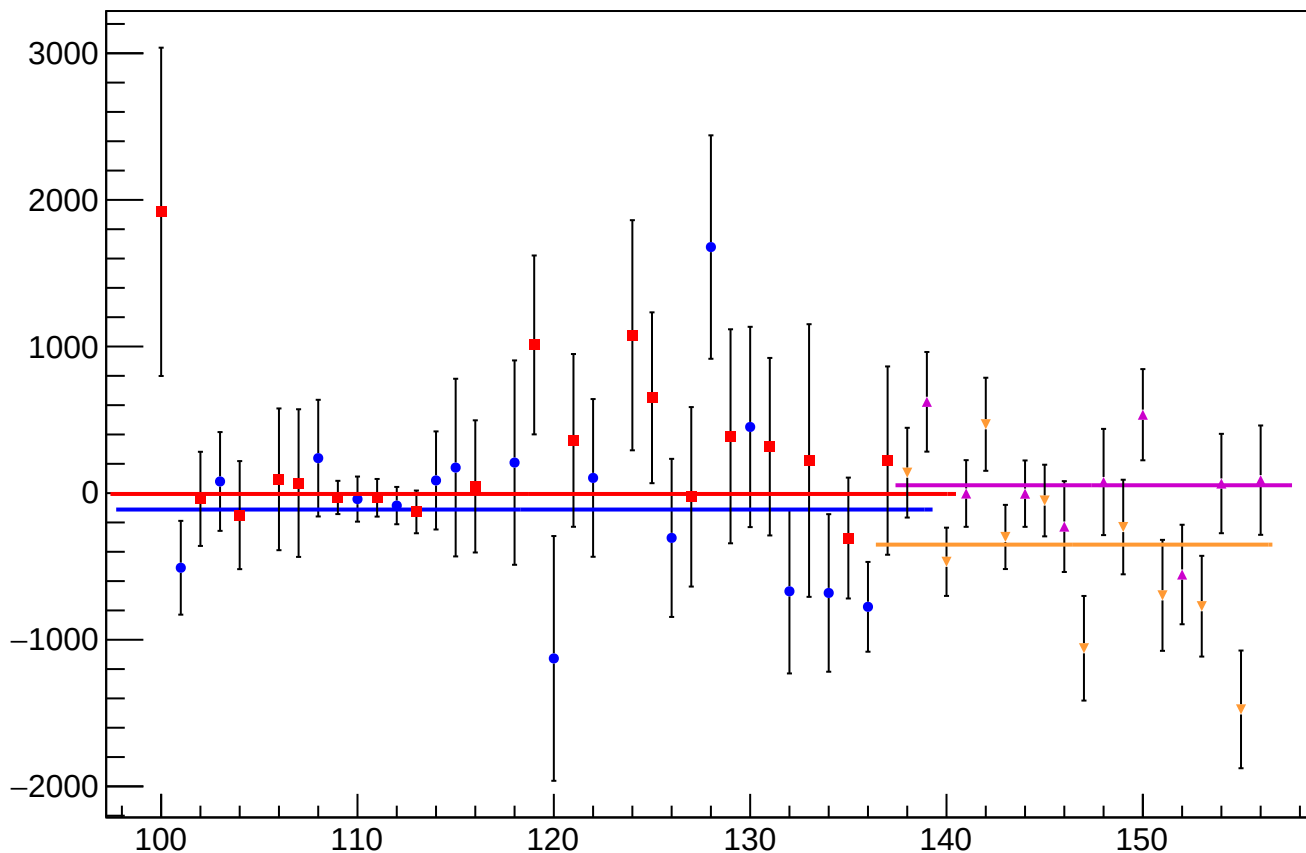
Right: 61.958 $\pm$ 0.012 χ^2 /NDF: 531751.4/34

In: 58.203 $\pm$ 0.011 χ^2 /NDF:327330.9/24

Out: 58.908 $\pm$ 0.011 χ^2 /NDF:383343.8/28

All: 58.553 $\pm$ 0.008 χ^2 /NDF: 712841.7/53

asym_sam8_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866 ± 76.213 $\chi^2/\text{NDF}: 18.5/15$

Left Out: -351.135 ± 92.920 $\chi^2/\text{NDF}: 25.3/9$

Right Out: -5.616 ± 64.085 $\chi^2/\text{NDF}: 11.6/18$

Left In: 53.742 ± 99.766 $\chi^2/\text{NDF}: 9.4/8$

Left: -163.064 ± 67.996 $\chi^2/\text{NDF}: 43.5/18$

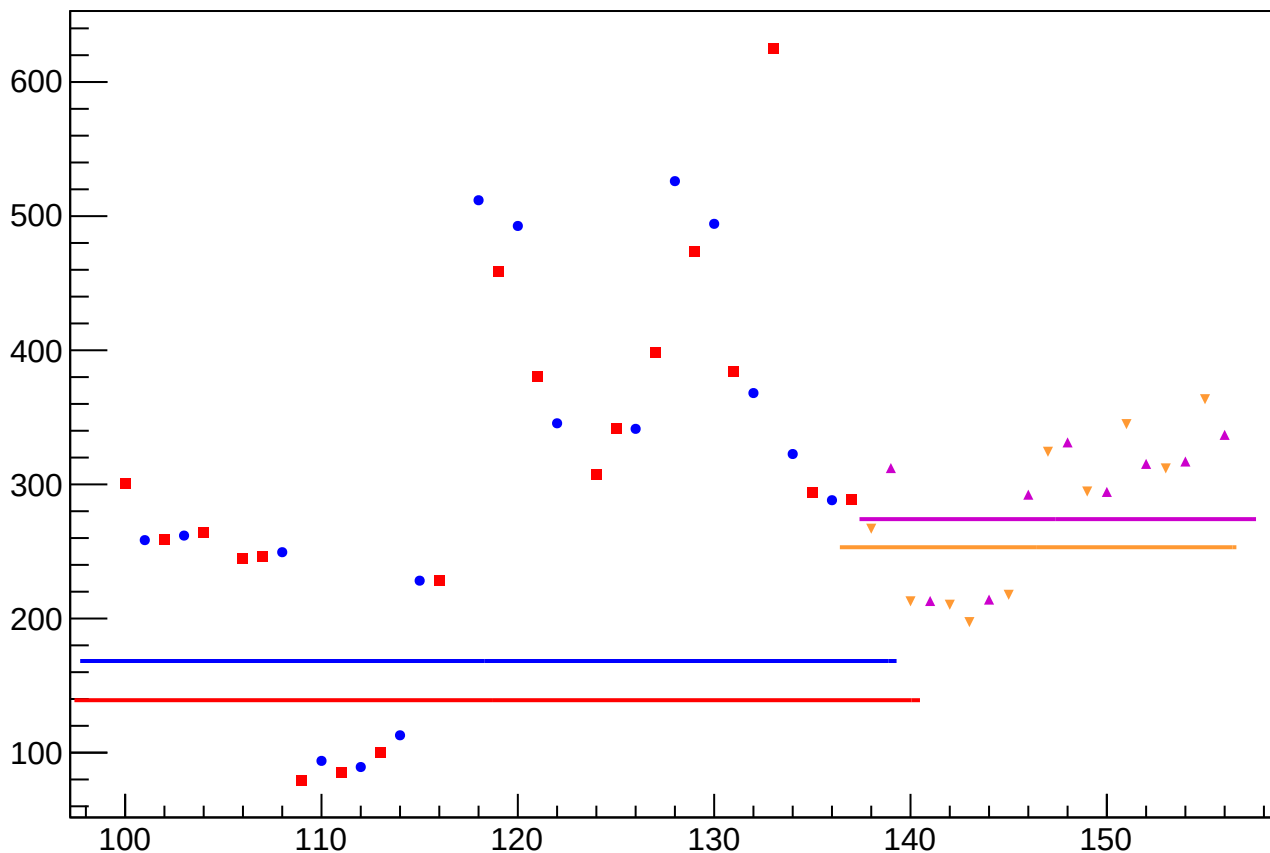
Right: -49.624 ± 49.049 $\chi^2/\text{NDF}: 31.2/34$

In: -50.837 ± 60.563 $\chi^2/\text{NDF}: 29.6/24$

Out: -116.989 ± 52.755 $\chi^2/\text{NDF}: 46.3/28$

All: -88.450 ± 39.779 $\chi^2/\text{NDF}: 76.6/53$

asym_sam8_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544100.8/15

Left Out: 253.147+/-0.066 χ^2/NDF : 713093.7/9

Right Out: 139.105+/-0.045 χ^2/NDF : 5130011.5/18

Left In: 274.105+/-0.071 χ^2/NDF : 493221.2/8

Left: 262.882+/-0.048 χ^2/NDF : 1253580.4/18

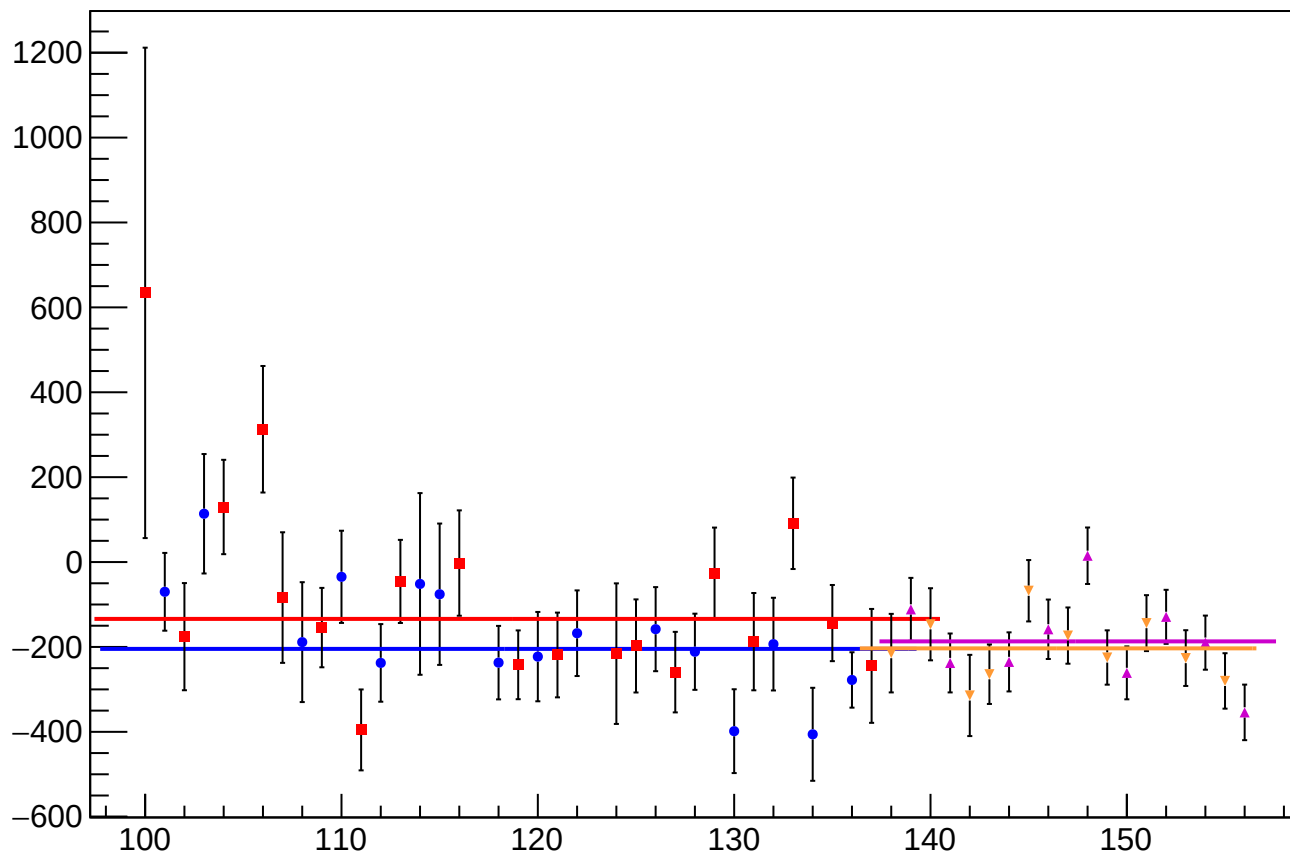
Right: 151.210+/-0.035 χ^2/NDF : 9846393.6/34

In: 207.309+/-0.043 χ^2/NDF : 6457025.7/24

Out: 175.864+/-0.037 χ^2/NDF : 7884643.9/28

All: 189.430+/-0.028 χ^2/NDF : 14648224.0/53

dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 χ^2/NDF : 20.0/15

Left Out: -203.341 ± 22.772 χ^2/NDF : 8.7/9

Right Out: -133.924 ± 25.484 χ^2/NDF : 37.2/18

Left In: -186.881 ± 22.307 χ^2/NDF : 20.2/8

Left: -194.941 ± 15.935 χ^2/NDF : 29.2/18

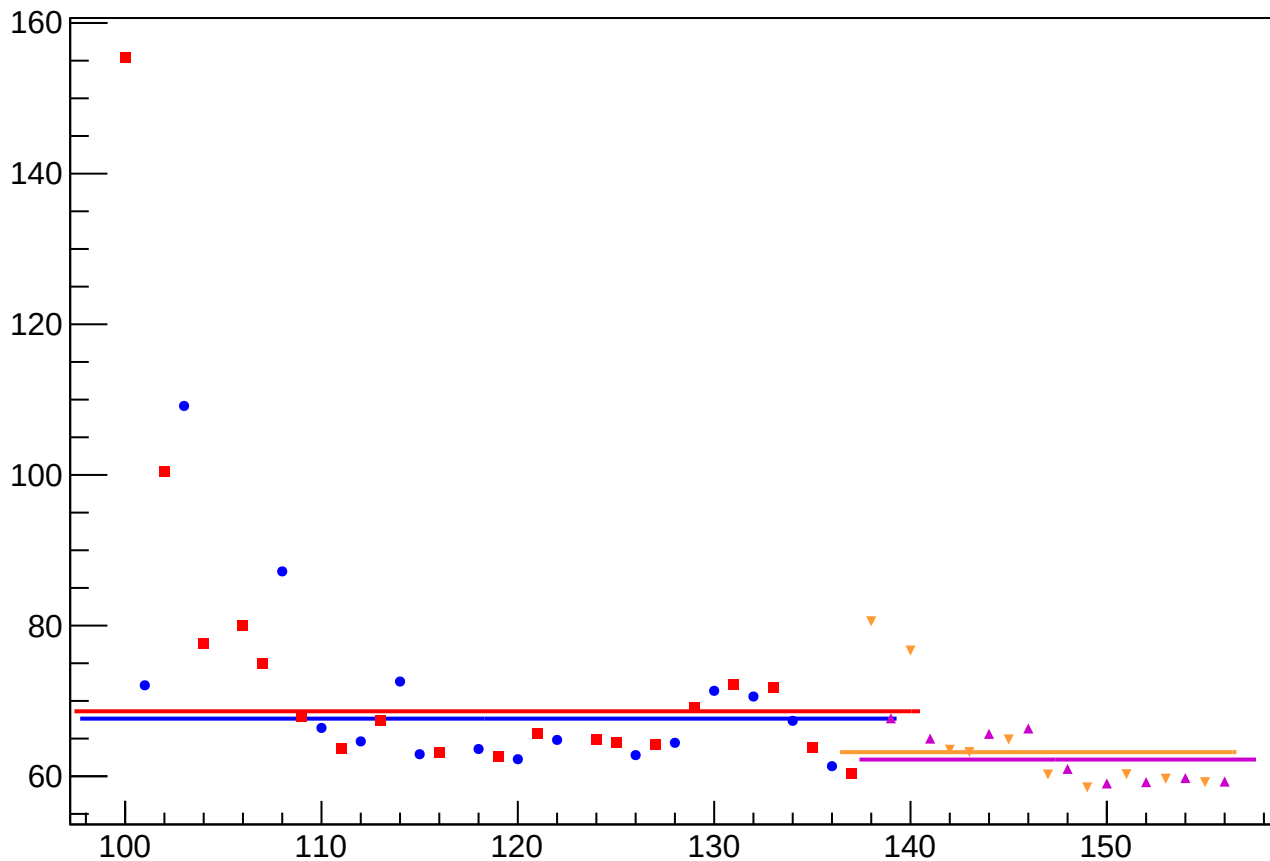
Right: -169.195 ± 18.034 χ^2/NDF : 61.1/34

In: -194.544 ± 16.796 χ^2/NDF : 40.5/24

Out: -172.522 ± 16.980 χ^2/NDF : 50.1/28

All: -183.653 ± 11.941 χ^2/NDF : 91.4/53

dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647 $\pm$ 0.018 χ^2 /NDF: 263669.9/15

Left Out: 63.202 $\pm$ 0.016 χ^2 /NDF: 153980.2/9

Right Out: 68.624 $\pm$ 0.018 χ^2 /NDF: 248164.6/18

Left In: 62.215 $\pm$ 0.016 χ^2 /NDF: 43141.3/8

Left: 62.699 $\pm$ 0.011 χ^2 /NDF: 199037.2/18

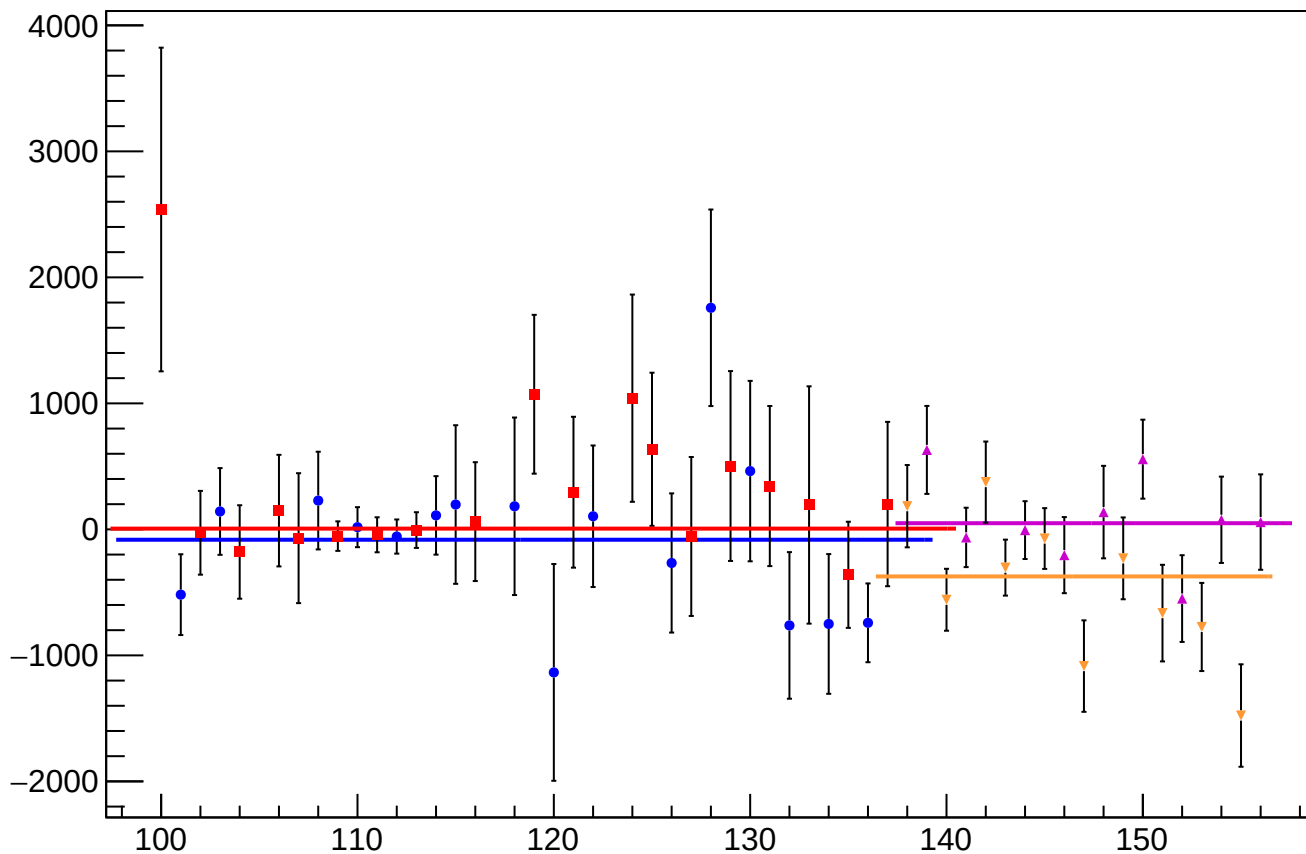
Right: 68.136 $\pm$ 0.013 χ^2 /NDF: 513300.5/34

In: 64.568 $\pm$ 0.012 χ^2 /NDF: 358170.2/24

Out: 65.609 $\pm$ 0.012 χ^2 /NDF: 452484.8/28

All: 65.083 $\pm$ 0.008 χ^2 /NDF: 814457.8/53

asym_sam8_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.228 ± 78.676 χ^2/NDF : 19.2/15

Left Out: -373.432 ± 94.846 χ^2/NDF : 23.9/9

Right Out: 6.063 ± 65.910 χ^2/NDF : 12.0/18

Left In: 48.884 ± 101.164 χ^2/NDF : 9.5/8

Left: -175.873 ± 69.192 χ^2/NDF : 42.6/18

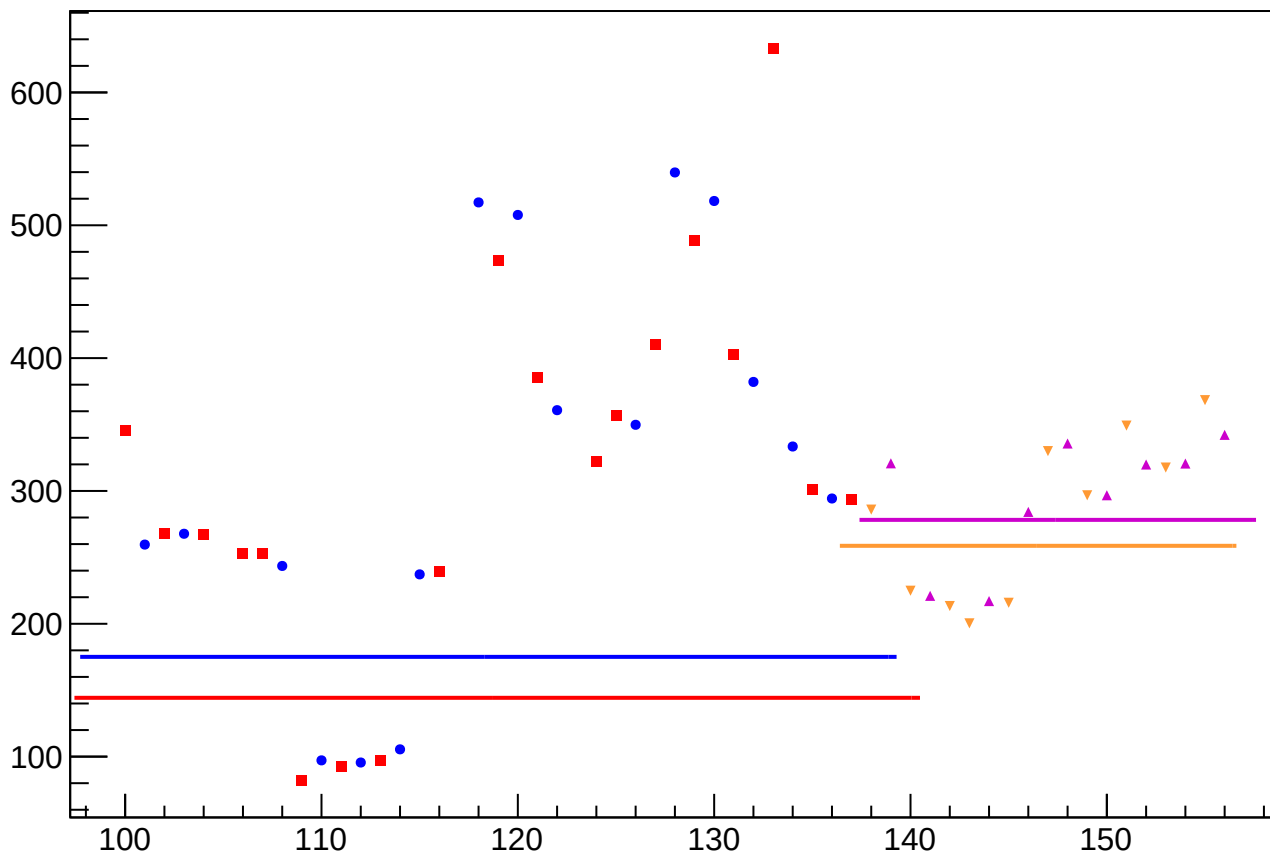
Right: -30.347 ± 50.524 χ^2/NDF : 32.0/34

In: -32.814 ± 62.105 χ^2/NDF : 29.7/24

Out: -117.520 ± 54.125 χ^2/NDF : 46.7/28

All: -80.956 ± 40.804 χ^2/NDF : 77.5/53

asym_sam8_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.099+/-0.056 χ^2/NDF : 4429076.5/15

Left Out: 258.701+/-0.067 χ^2/NDF : 711088.3/9

Right Out: 144.276+/-0.047 χ^2/NDF : 5132432.2/18

Left In: 278.230+/-0.072 χ^2/NDF : 463408.1/8

Left: 267.836+/-0.049 χ^2/NDF : 1214162.8/18

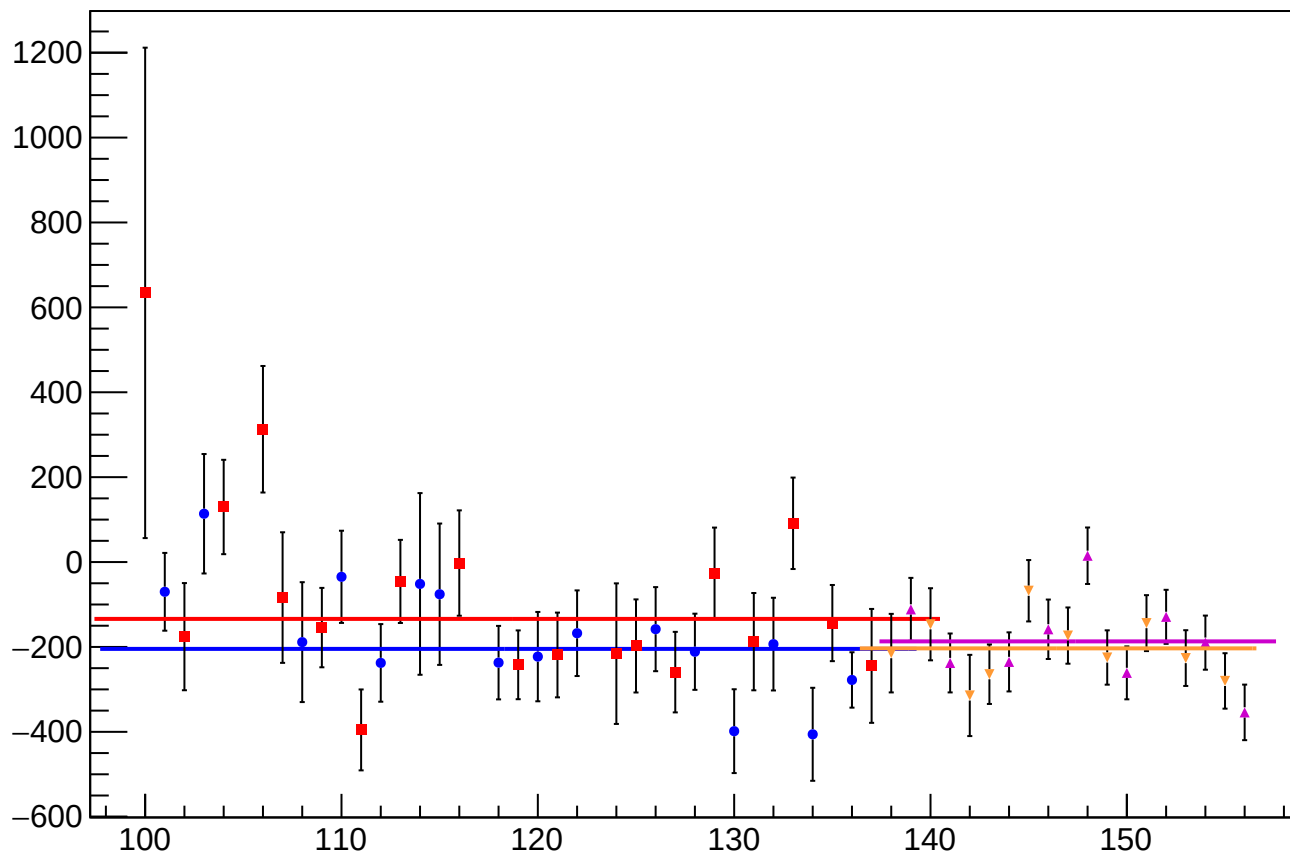
Right: 156.987+/-0.036 χ^2/NDF : 9741889.9/34

In: 213.967+/-0.044 χ^2/NDF : 6187637.0/24

Out: 181.539+/-0.038 χ^2/NDF : 7806494.2/28

All: 195.537+/-0.029 χ^2/NDF : 14304039.0/53

eigen_dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -203.341 ± 22.772 $\chi^2/\text{NDF}: 8.7/9$

Right Out: -133.926 ± 25.483 $\chi^2/\text{NDF}: 37.2/18$

Left In: -186.881 ± 22.307 $\chi^2/\text{NDF}: 20.2/8$

Left: -194.941 ± 15.935 $\chi^2/\text{NDF}: 29.2/18$

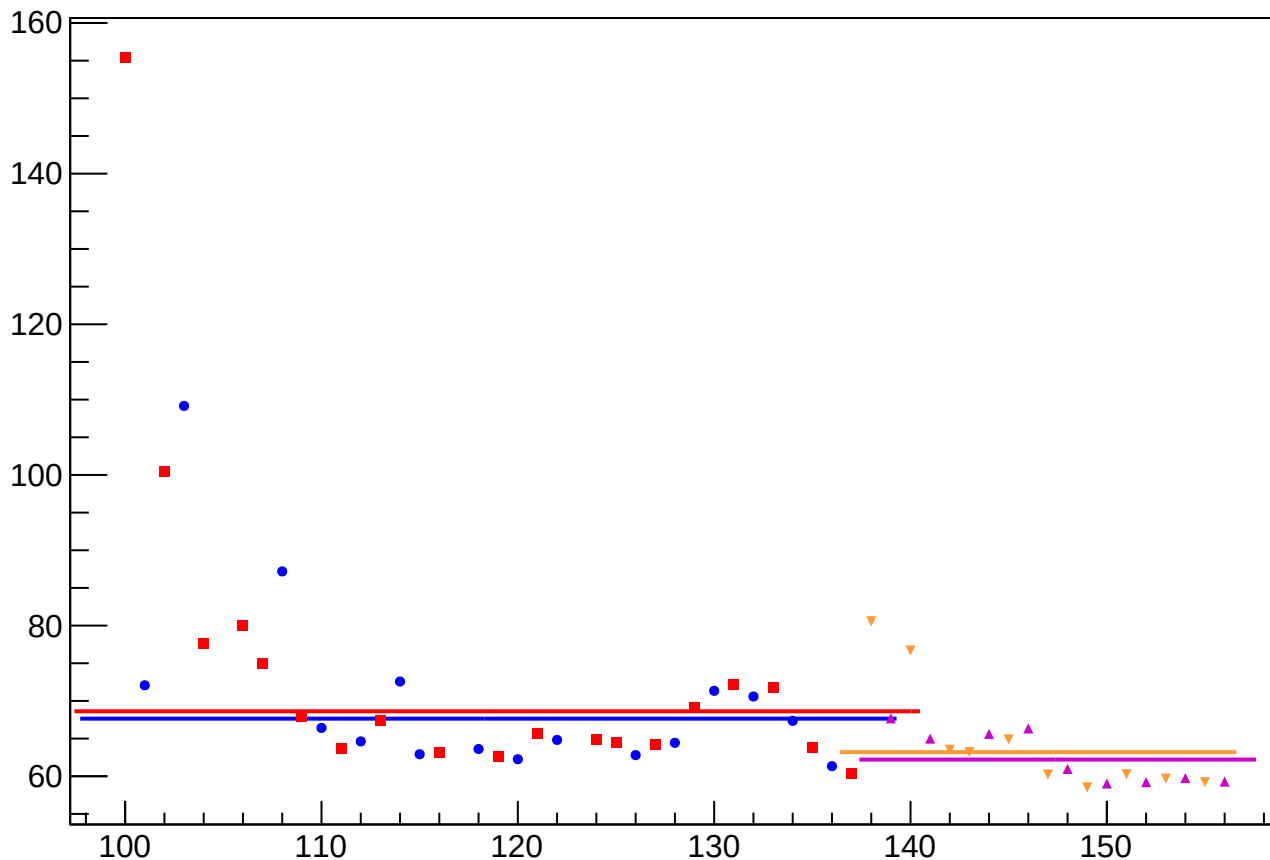
Right: -169.196 ± 18.034 $\chi^2/\text{NDF}: 61.1/34$

In: -194.544 ± 16.796 $\chi^2/\text{NDF}: 40.5/24$

Out: -172.522 ± 16.980 $\chi^2/\text{NDF}: 50.1/28$

All: -183.653 ± 11.941 $\chi^2/\text{NDF}: 91.4/53$

eigen_dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647 $\pm$ 0.018 χ^2 /NDF: 263668.9/15

Left Out: 63.202 $\pm$ 0.016 χ^2 /NDF: 153979.1/9

Right Out: 68.624 $\pm$ 0.018 χ^2 /NDF: 248166.1/18

Left In: 62.215 $\pm$ 0.016 χ^2 /NDF: 43141.9/8

Left: 62.699 $\pm$ 0.011 χ^2 /NDF: 199036.8/18

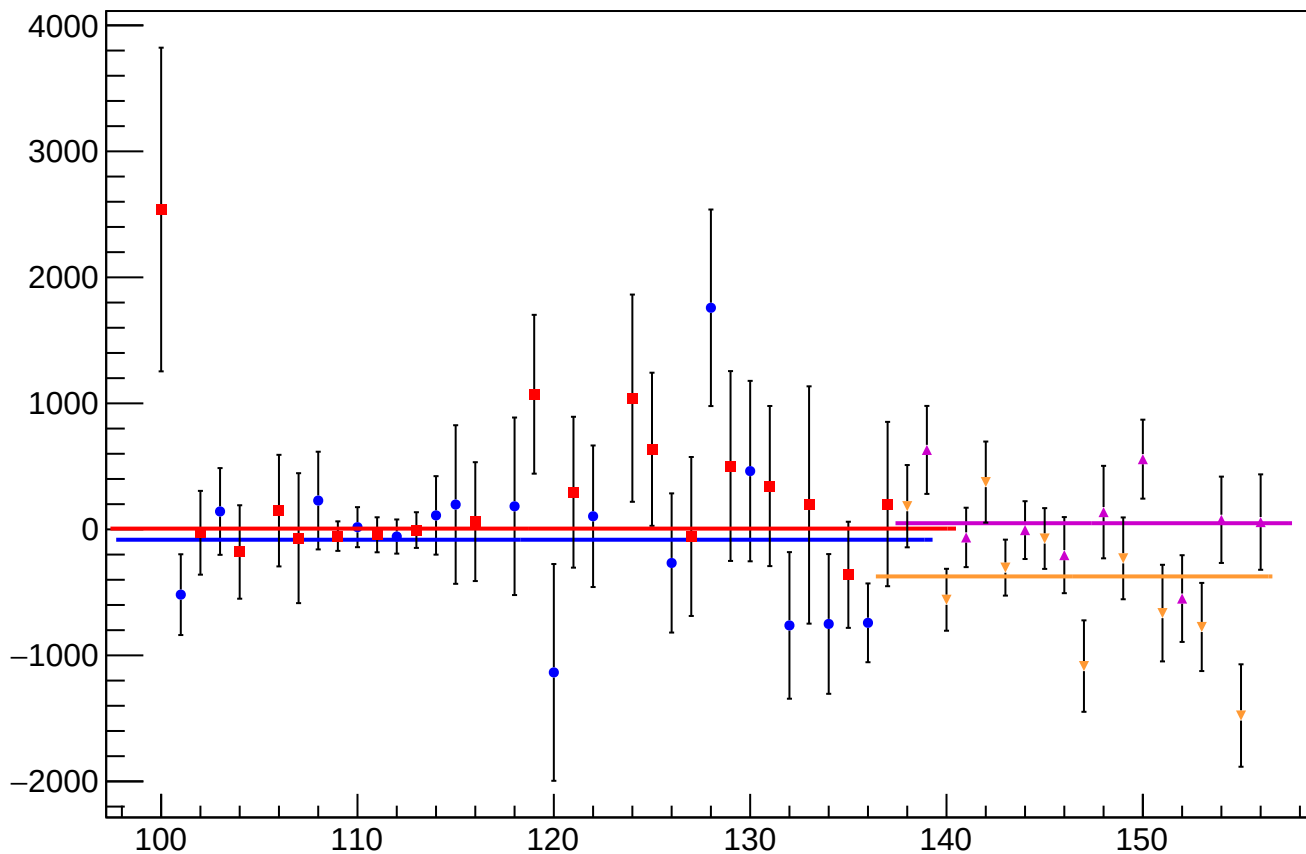
Right: 68.136 $\pm$ 0.013 χ^2 /NDF: 513301.0/34

In: 64.568 $\pm$ 0.012 χ^2 /NDF: 358165.3/24

Out: 65.609 $\pm$ 0.012 χ^2 /NDF: 452480.1/28

All: 65.083 $\pm$ 0.008 χ^2 /NDF: 814448.0/53

asym_sam8_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.226 ± 78.675 $\chi^2/\text{NDF}: 19.2/15$

Left Out: -373.431 ± 94.845 $\chi^2/\text{NDF}: 23.9/9$

Right Out: 6.062 ± 65.910 $\chi^2/\text{NDF}: 12.0/18$

Left In: 48.884 ± 101.164 $\chi^2/\text{NDF}: 9.5/8$

Left: -175.873 ± 69.192 $\chi^2/\text{NDF}: 42.6/18$

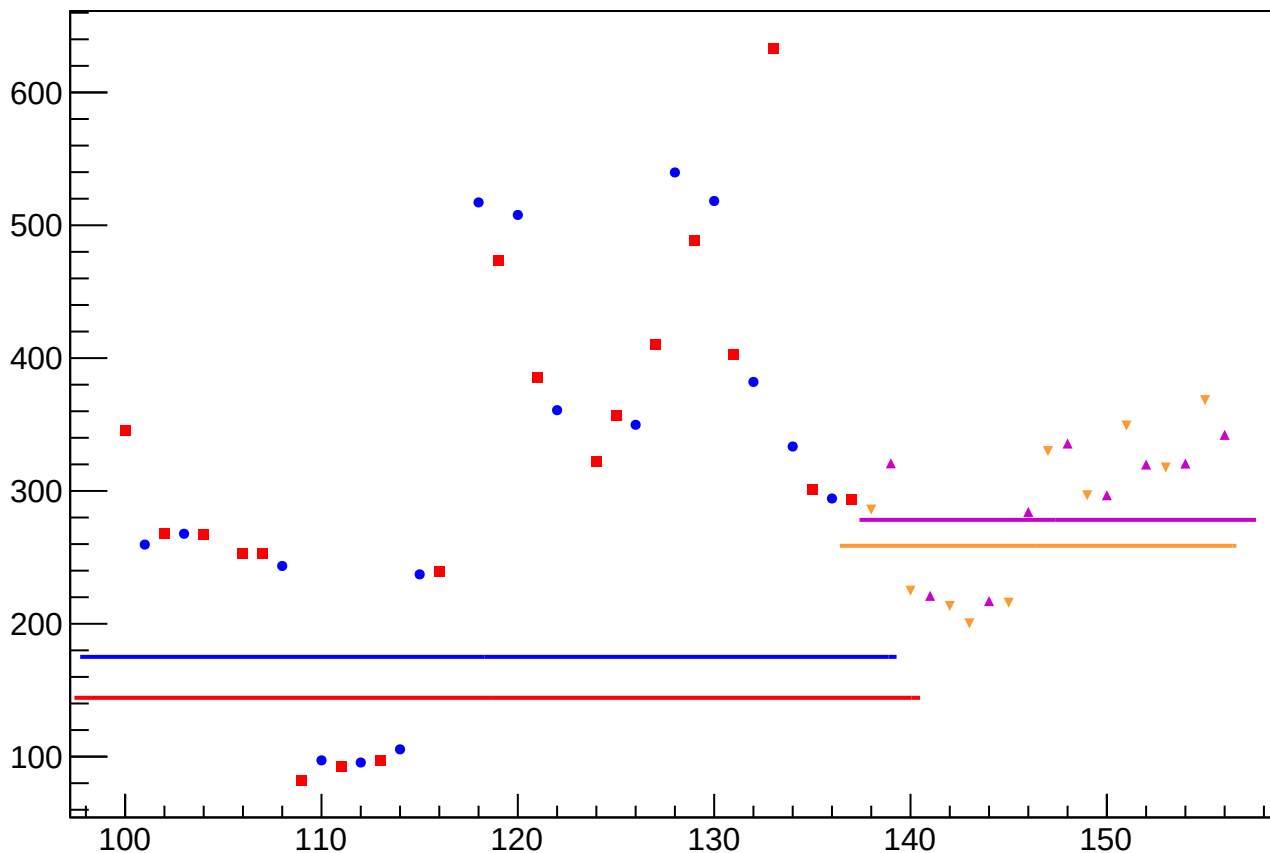
Right: -30.347 ± 50.524 $\chi^2/\text{NDF}: 32.0/34$

In: -32.814 ± 62.105 $\chi^2/\text{NDF}: 29.7/24$

Out: -117.521 ± 54.124 $\chi^2/\text{NDF}: 46.7/28$

All: -80.956 ± 40.803 $\chi^2/\text{NDF}: 77.5/53$

asym_sam8_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.098+/-0.056 χ^2/NDF : 4429098.4/15

Left Out: 258.699+/-0.067 χ^2/NDF : 711093.9/9

Right Out: 144.276+/-0.047 χ^2/NDF : 5132412.3/18

Left In: 278.229+/-0.072 χ^2/NDF : 463408.9/8

Left: 267.835+/-0.049 χ^2/NDF : 1214170.2/18

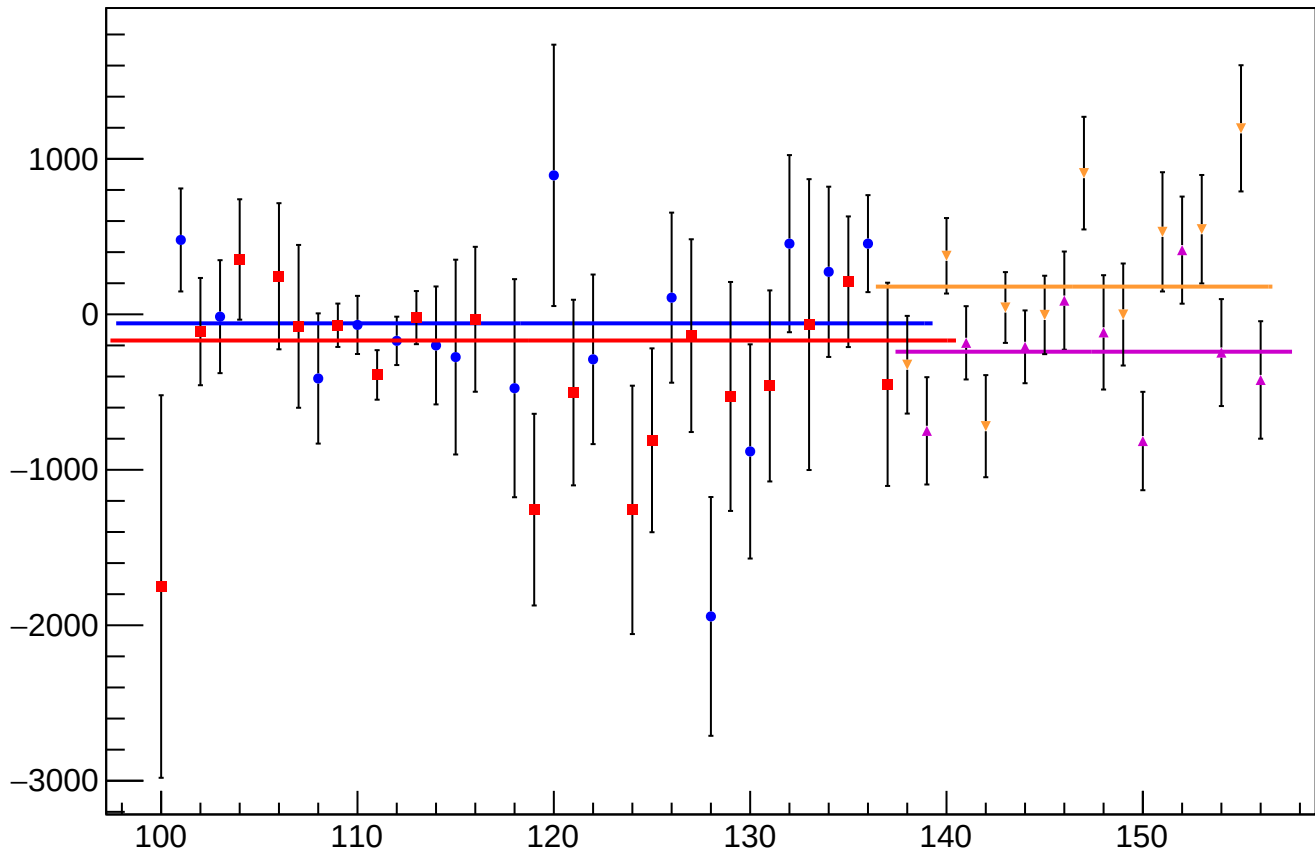
Right: 156.987+/-0.036 χ^2/NDF : 9741880.9/34

In: 213.966+/-0.044 χ^2/NDF : 6187682.2/24

Out: 181.538+/-0.038 χ^2/NDF : 7806465.2/28

All: 195.536+/-0.029 χ^2/NDF : 14304041.4/53

asym_sam8_mean vs Slug, Sign Corrected



Right In: -57.970 ± 86.890 χ^2/NDF : 17.4/15

Left Out: 178.294 ± 95.616 χ^2/NDF : 24.2/9

Right Out: -168.322 ± 74.598 χ^2/NDF : 15.5/18

Left In: -240.442 ± 102.096 χ^2/NDF : 10.6/8

Left: -17.364 ± 69.789 χ^2/NDF : 43.7/18

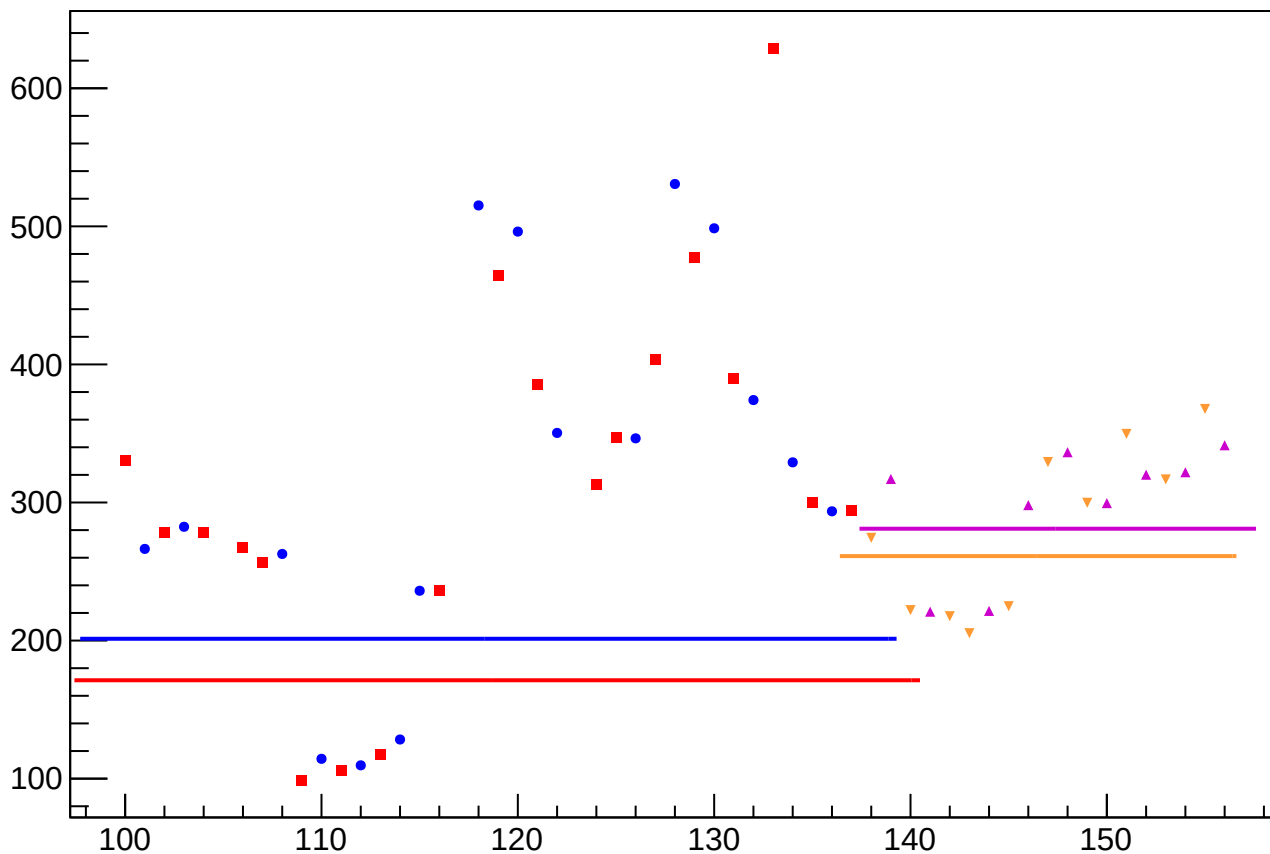
Right: -121.498 ± 56.600 χ^2/NDF : 33.8/34

In: -134.619 ± 66.170 χ^2/NDF : 29.8/24

Out: -37.171 ± 58.815 χ^2/NDF : 47.8/28

All: -80.180 ± 43.960 χ^2/NDF : 78.9/53

asym_sam8_rms vs Slug, Sign Corrected



Right In: 201.301 $\pm$ 0.061 χ^2/NDF : 3572199.4/15

Left Out: 261.183 $\pm$ 0.068 χ^2/NDF : 645930.2/9

Right Out: 171.252 $\pm$ 0.053 χ^2/NDF : 4192554.2/18

Left In: 281.013 $\pm$ 0.072 χ^2/NDF : 444397.2/8

Left: 270.448 $\pm$ 0.049 χ^2/NDF : 1130522.7/18

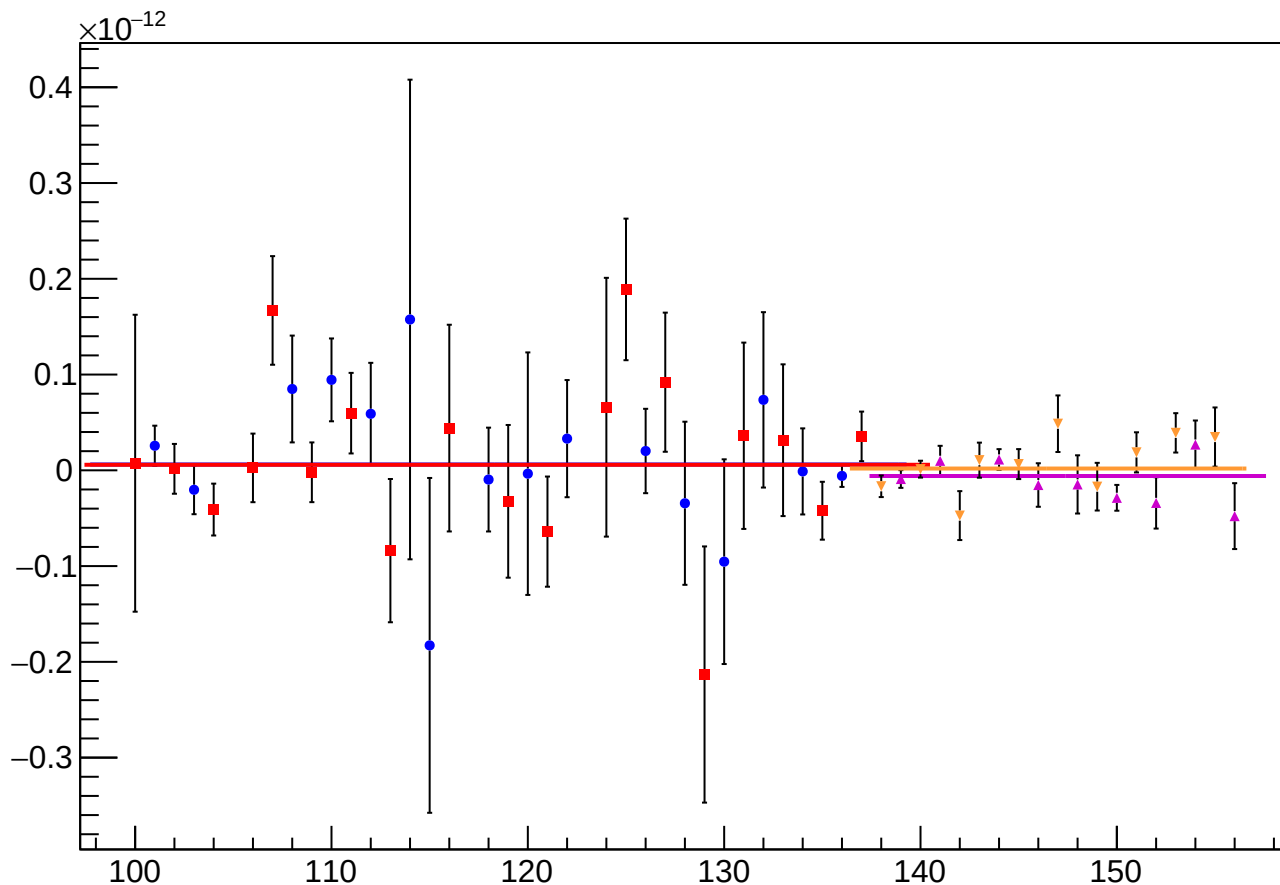
Right: 184.002 $\pm$ 0.040 χ^2/NDF : 7902458.5/34

In: 234.785 $\pm$ 0.047 χ^2/NDF : 4723624.9/24

Out: 205.279 $\pm$ 0.042 χ^2/NDF : 5938296.5/28

All: 218.302 $\pm$ 0.031 χ^2/NDF : 10884072.1/53

asym_sam8_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 : 14.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 30.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.1/8

Left: -0.000+/-0.000 χ^2/NDF : 27.1/18

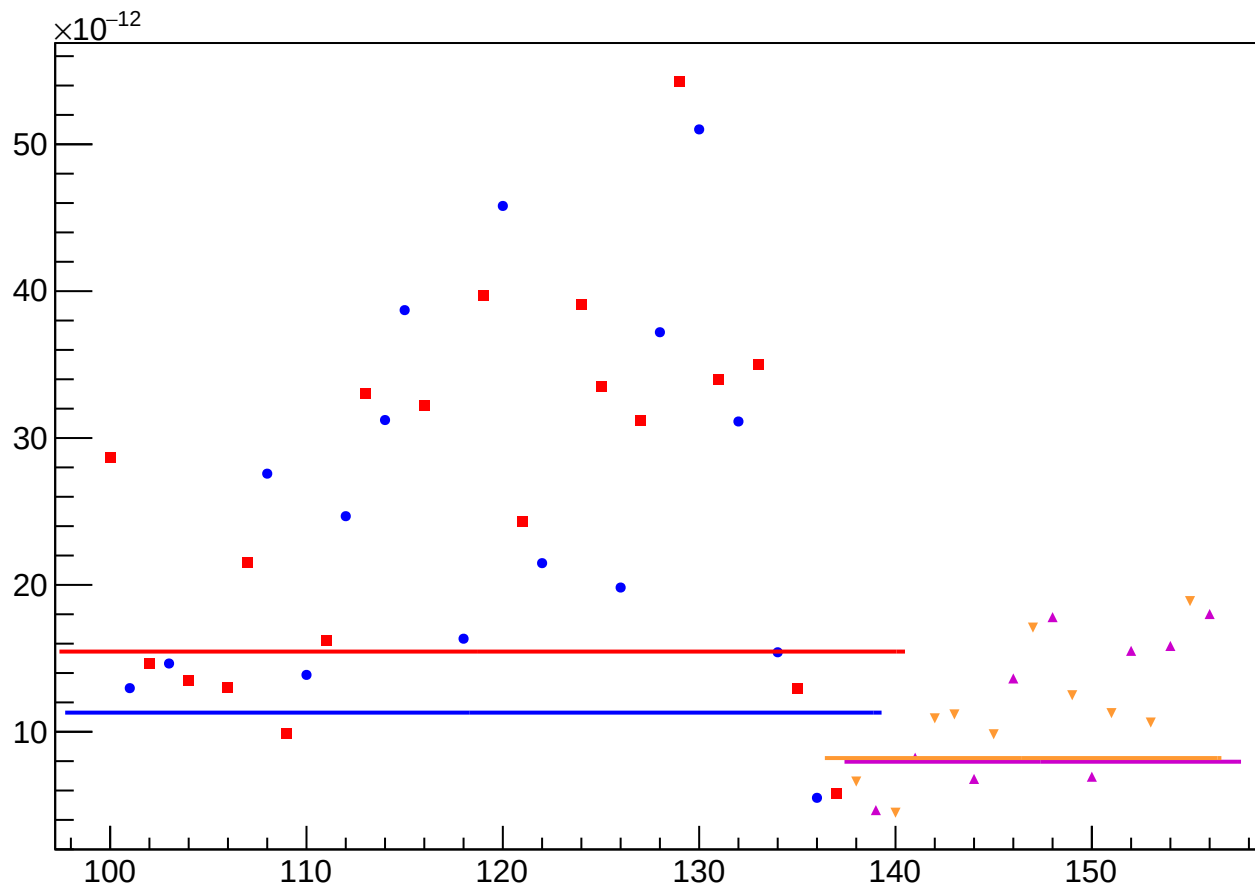
Right: 0.000+/-0.000 χ^2/NDF : 44.3/34

In: -0.000+/-0.000 χ^2/NDF : 26.4/24

Out: 0.000+/-0.000 χ^2/NDF : 45.5/28

All: -0.000+/-0.000 χ^2/NDF : 72.6/53

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 :1043734.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1442096.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1150734.9/8

Left: 0.000+/-0.000 χ^2/NDF : 2196780.0/18

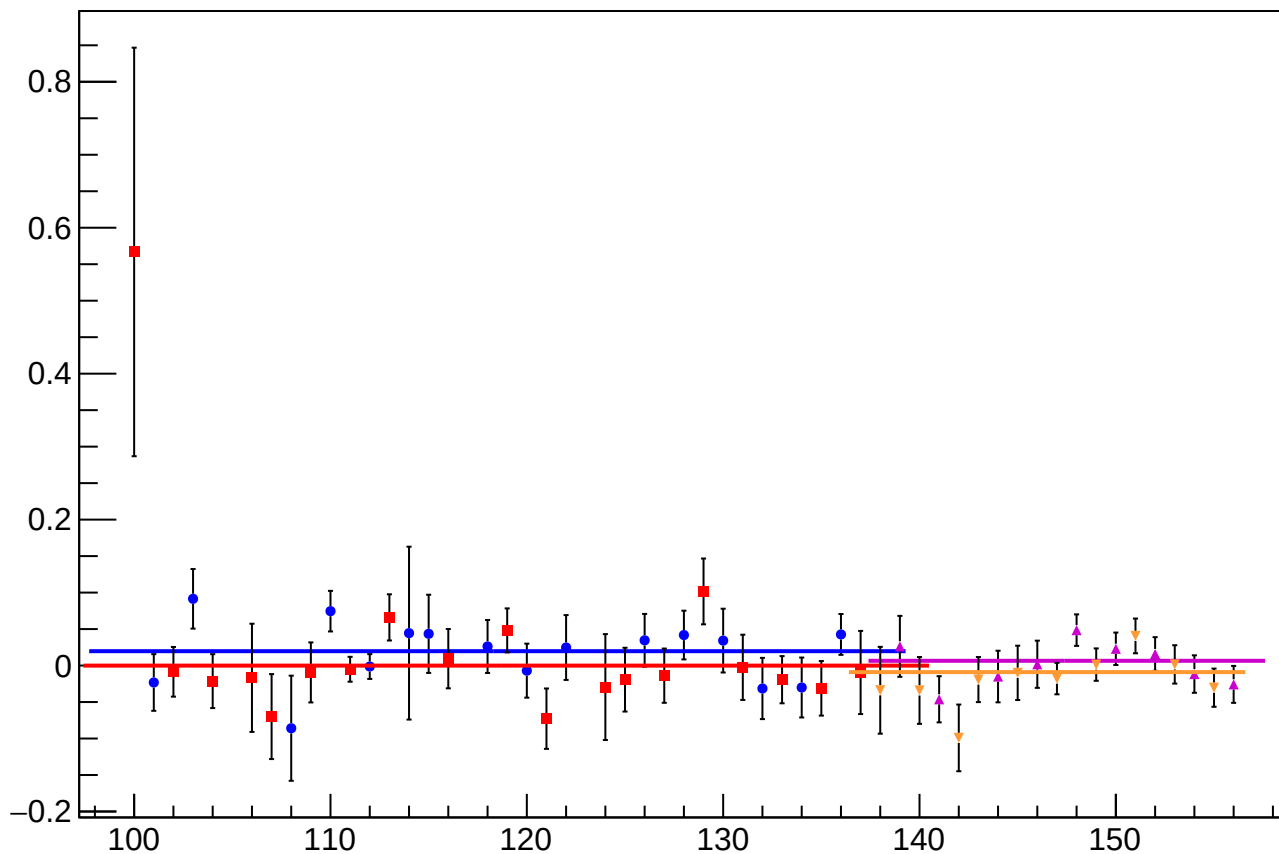
Right: 0.000+/-0.000 χ^2/NDF : 3431603.8/34

In: 0.000+/-0.000 χ^2/NDF :3173569.1/24

Out: 0.000+/-0.000 χ^2/NDF :3292627.3/28

All: 0.000+/-0.000 χ^2/NDF : 6495124.3/53

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: -0.009 ± 0.009 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.007 ± 0.009 $\chi^2/\text{NDF}: 10.0/8$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 21.5/18$

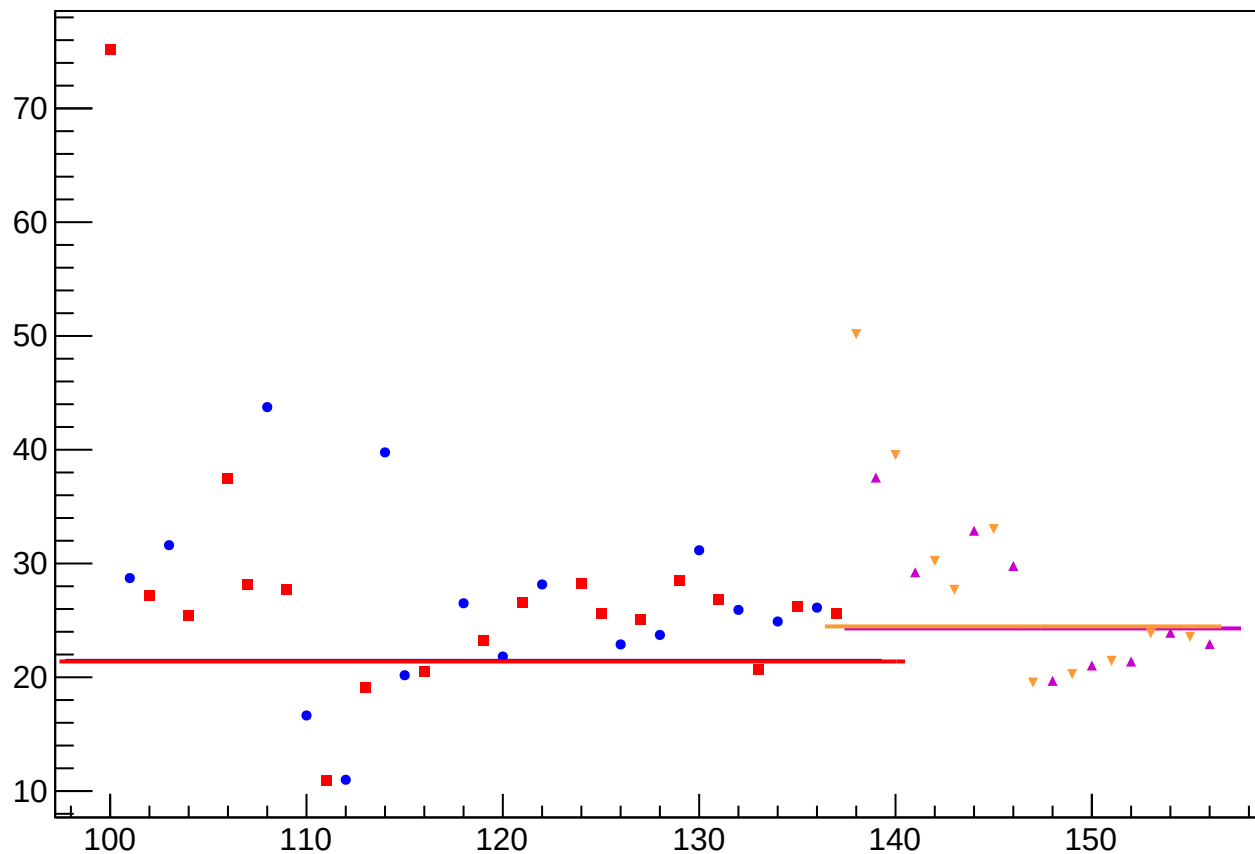
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.013 ± 0.006 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 33.4/28$

All: 0.005 ± 0.004 $\chi^2/\text{NDF}: 65.5/53$

asym_sam8_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.444 $\pm$ 0.006 χ^2 /NDF: 1540713.8/15

Left Out: 24.471 $\pm$ 0.006 χ^2 /NDF: 960448.0/9

Right Out: 21.389 $\pm$ 0.006 χ^2 /NDF: 1311934.3/18

Left In: 24.295 $\pm$ 0.006 χ^2 /NDF: 598333.3/8

Left: 24.381 $\pm$ 0.005 χ^2 /NDF: 1559159.6/18

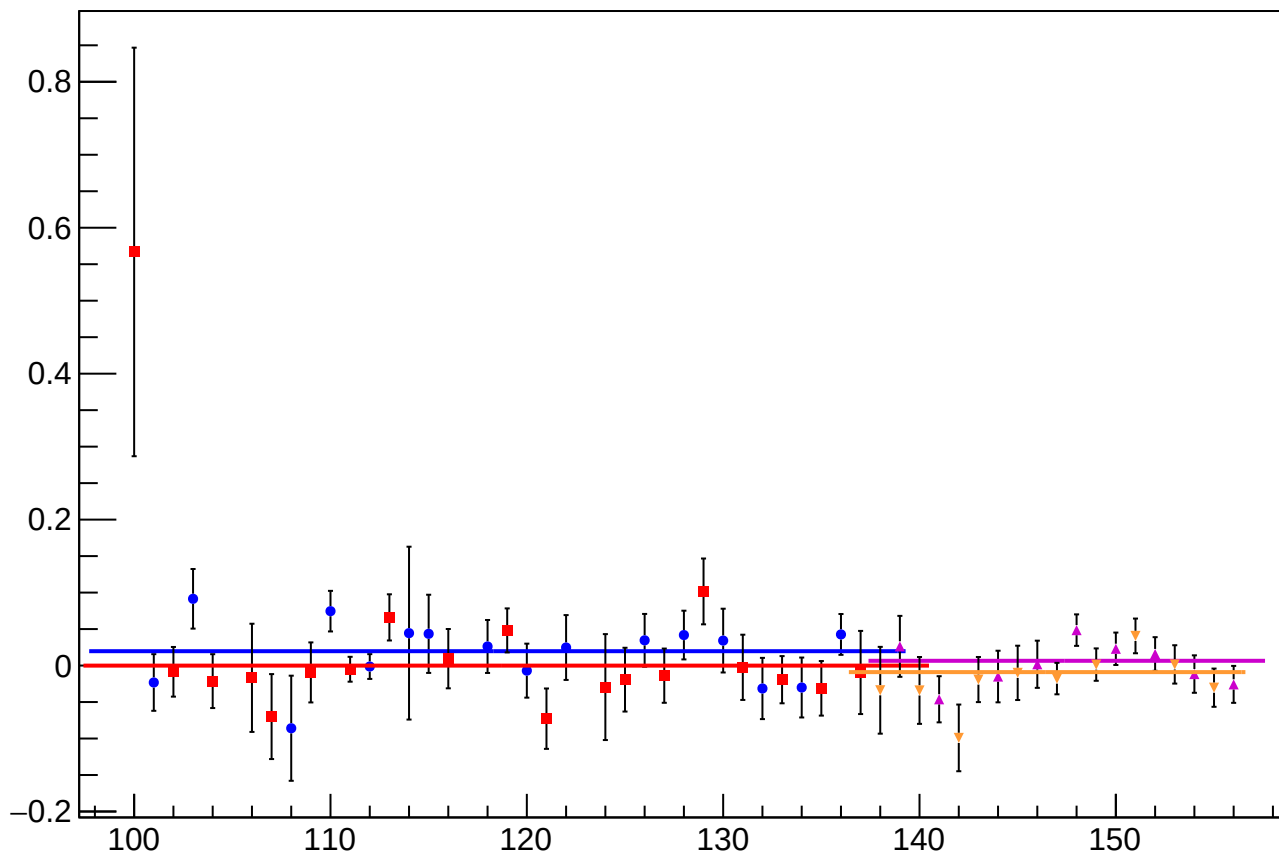
Right: 21.416 $\pm$ 0.004 χ^2 /NDF: 2852687.6/34

In: 22.825 $\pm$ 0.004 χ^2 /NDF: 2243493.6/24

Out: 22.813 $\pm$ 0.004 χ^2 /NDF: 2393656.0/28

All: 22.819 $\pm$ 0.003 χ^2 /NDF: 4637153.3/53

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: -0.009 ± 0.009 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.007 ± 0.009 $\chi^2/\text{NDF}: 10.0/8$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 21.5/18$

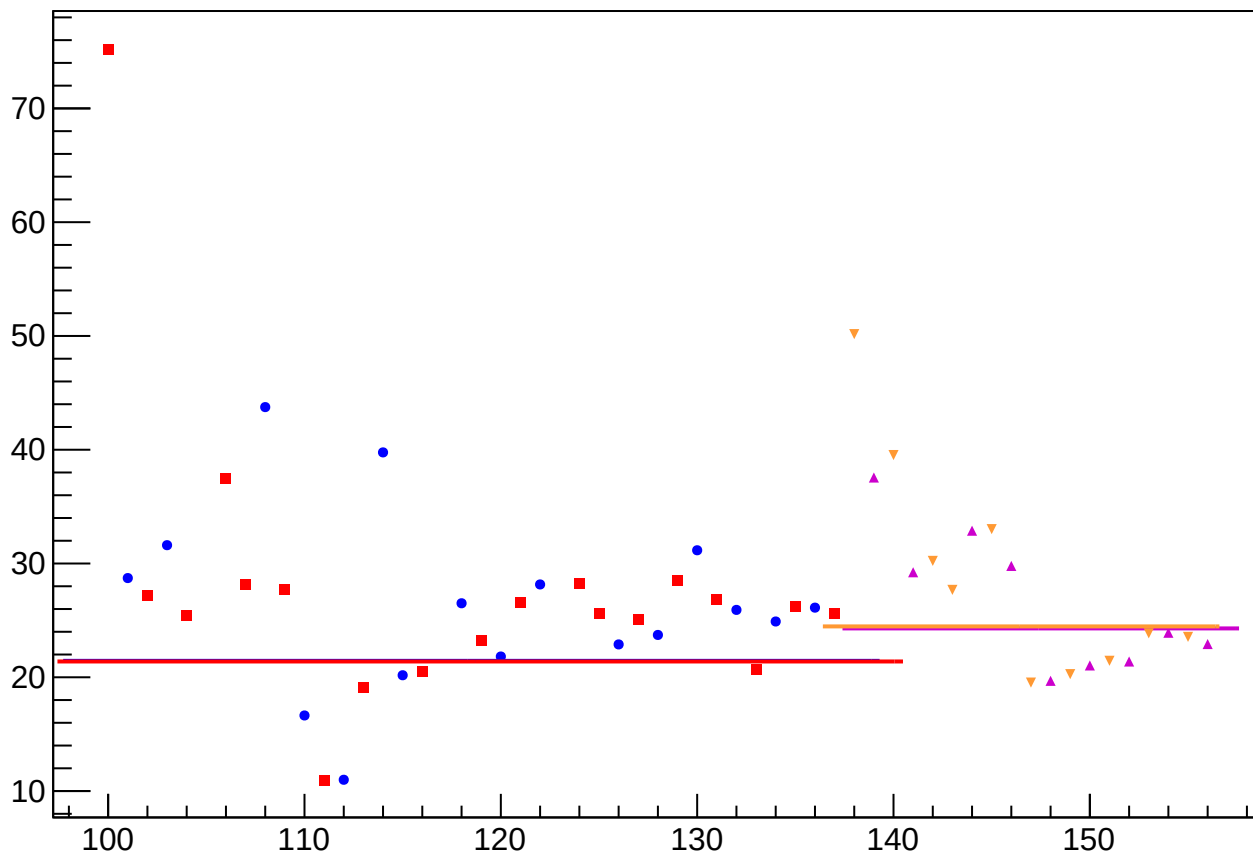
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.013 ± 0.006 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 33.4/28$

All: 0.005 ± 0.004 $\chi^2/\text{NDF}: 65.5/53$

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: 24.471+/-0.006 χ^2/NDF : 960448.0/9

Right Out: 21.389+/-0.006 χ^2/NDF : 1311934.3/18

Left In: 24.295+/-0.006 χ^2/NDF : 598333.3/8

Left: 24.381+/-0.005 χ^2/NDF : 1559159.6/18

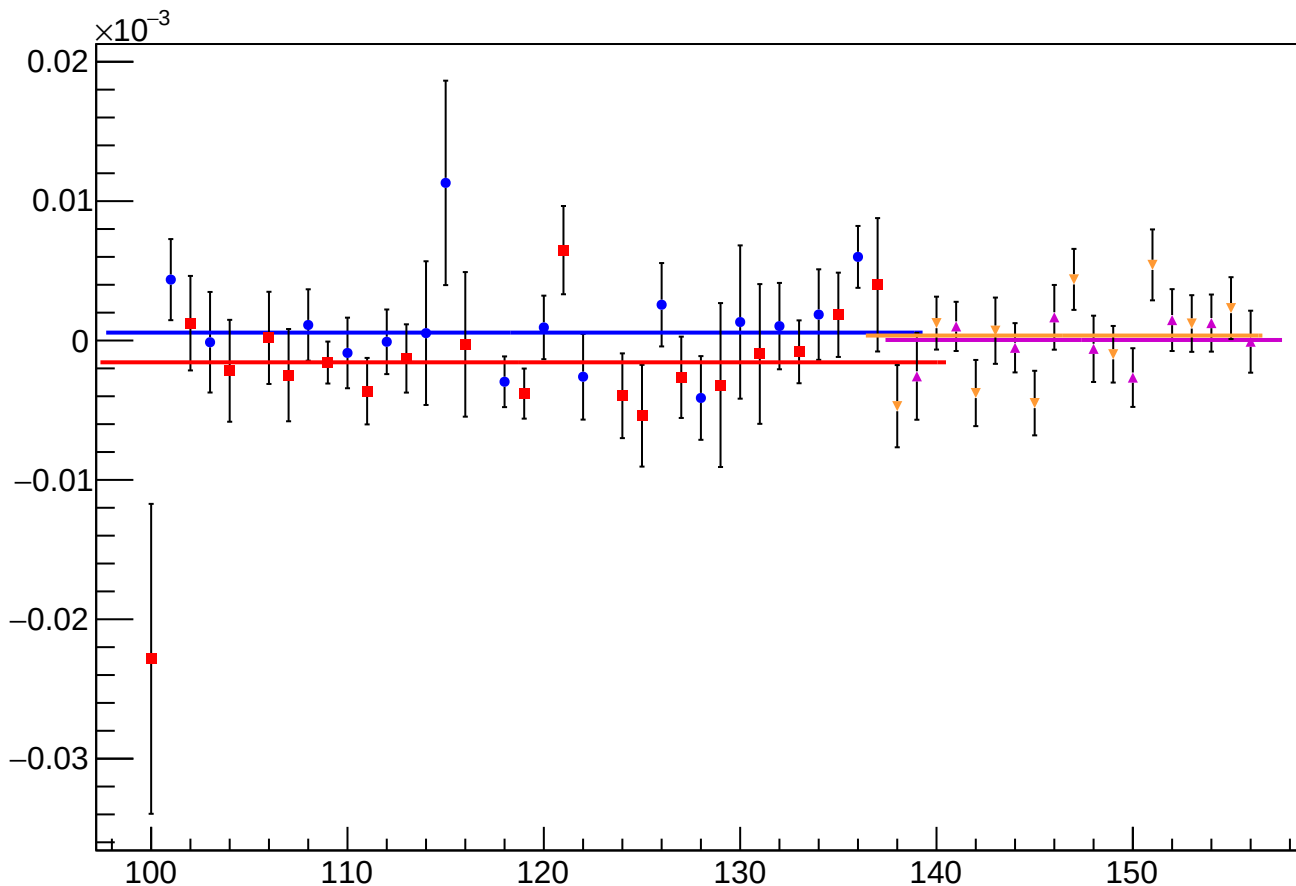
Right: 21.416+/-0.004 χ^2/NDF : 2852687.6/34

In: 22.825+/-0.004 χ^2/NDF : 2243493.6/24

Out: 22.813+/-0.004 χ^2/NDF : 2393656.0/28

All: 22.819+/-0.003 χ^2/NDF : 4637153.3/53

asym_sam8_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:19.4/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.3/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:4.1/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.5/18

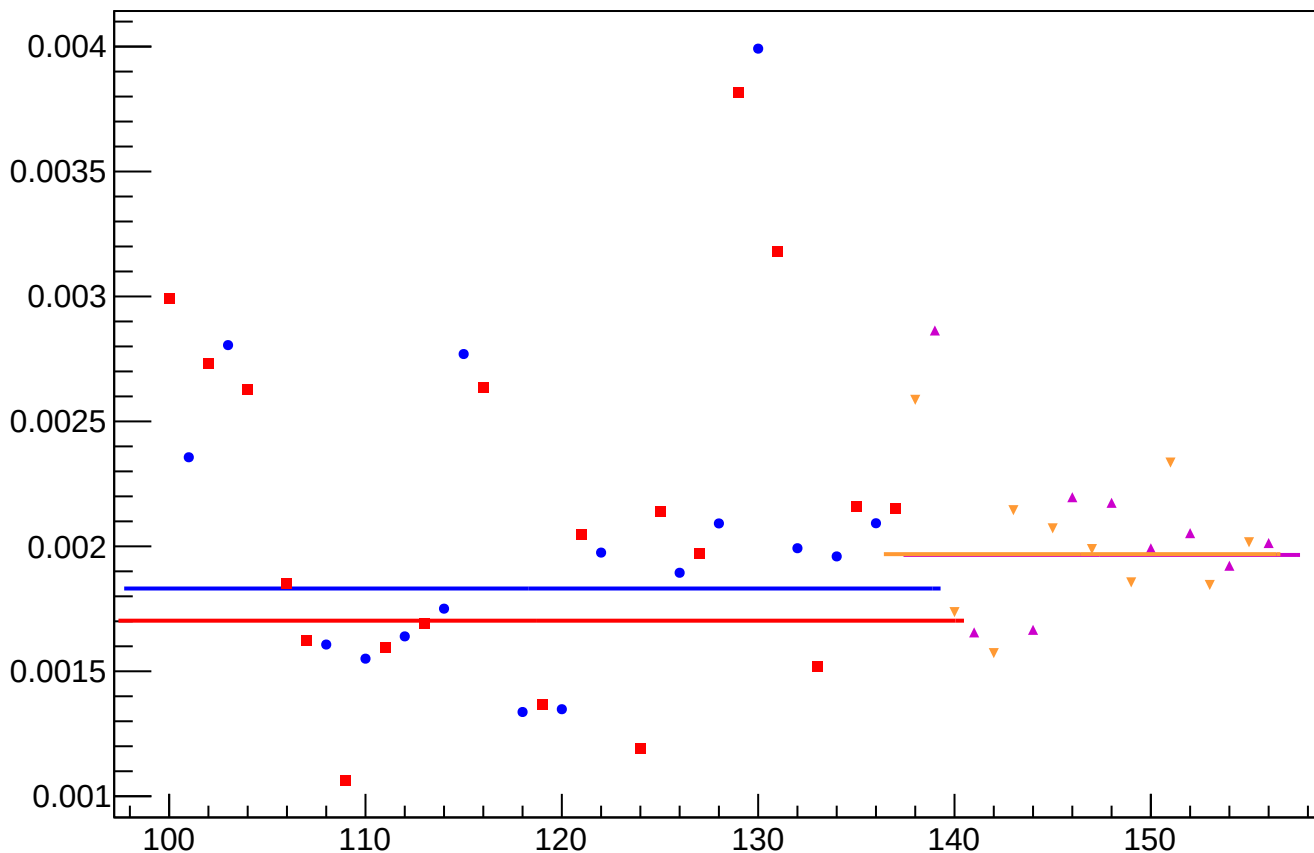
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.4/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.6/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:41.6/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 66.2/53

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 : 244273.4/9

Right Out: 0.002+/-0.000 χ^2/NDF : 1478057.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 326007.6/8

Left: 0.002+/-0.000 χ^2/NDF : 570300.5/18

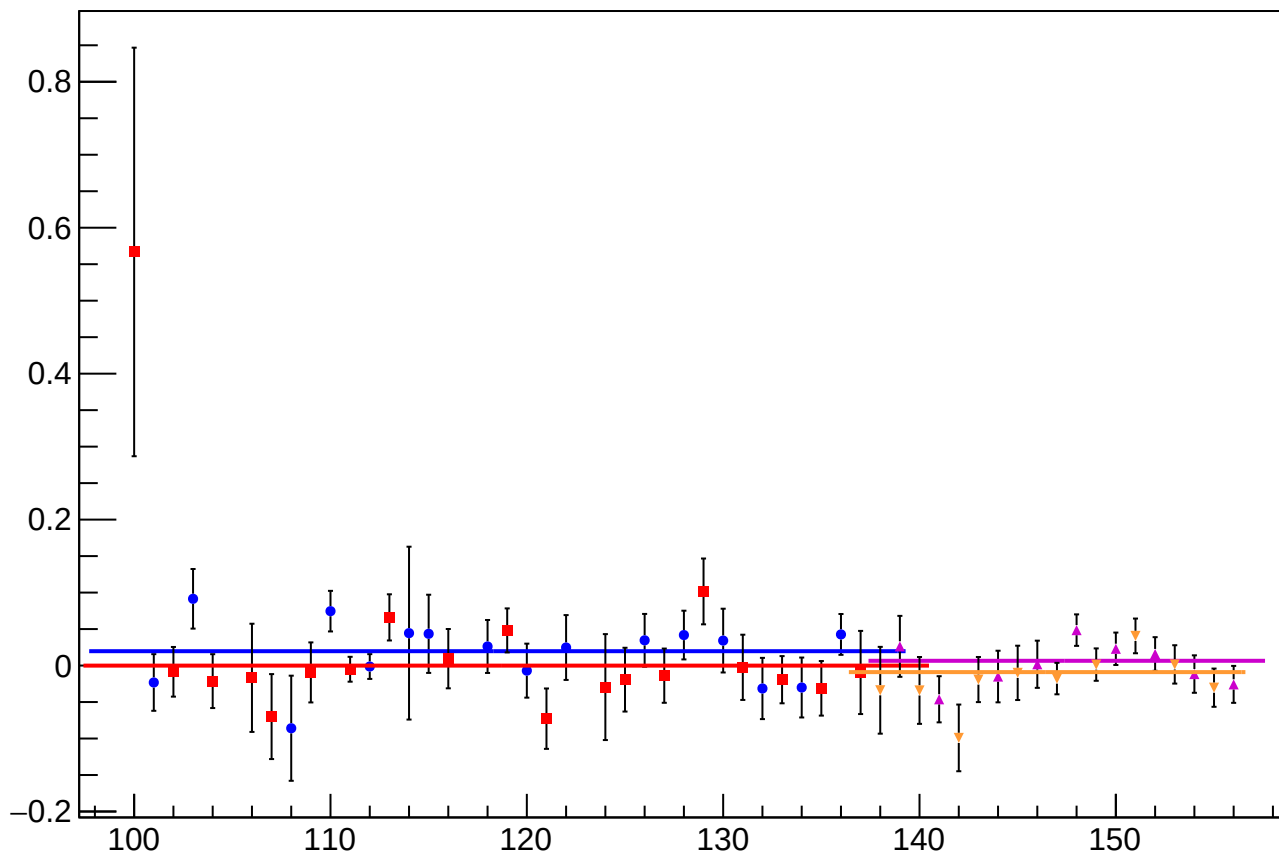
Right: 0.002+/-0.000 χ^2/NDF : 2413966.0/34

In: 0.002+/-0.000 χ^2/NDF : 1262320.5/24

Out: 0.002+/-0.000 χ^2/NDF : 1873375.2/28

All: 0.002+/-0.000 χ^2/NDF : 3157211.4/53

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: -0.009 ± 0.009 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.007 ± 0.009 $\chi^2/\text{NDF}: 10.0/8$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 21.5/18$

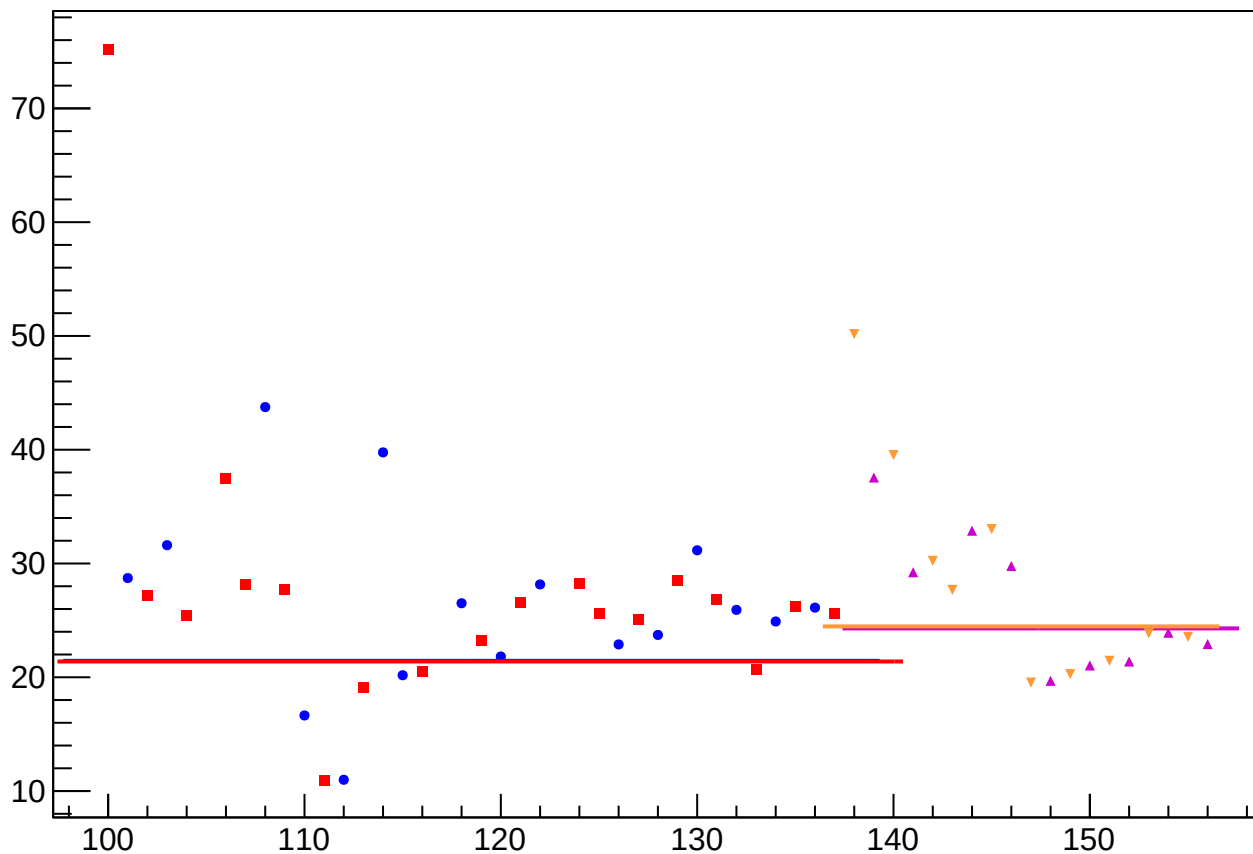
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.013 ± 0.006 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 33.4/28$

All: 0.005 ± 0.004 $\chi^2/\text{NDF}: 65.5/53$

asym_sam8_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443 $\pm$ 0.006 χ^2 /NDF: 1540859.8/15

Left Out: 24.472 $\pm$ 0.006 χ^2 /NDF:960441.3/9

Right Out: 21.389 $\pm$ 0.006 χ^2 /NDF: 1312055.7/18

Left In: 24.295 $\pm$ 0.006 χ^2 /NDF:598326.7/8

Left: 24.381 $\pm$ 0.005 χ^2 /NDF: 1559146.2/18

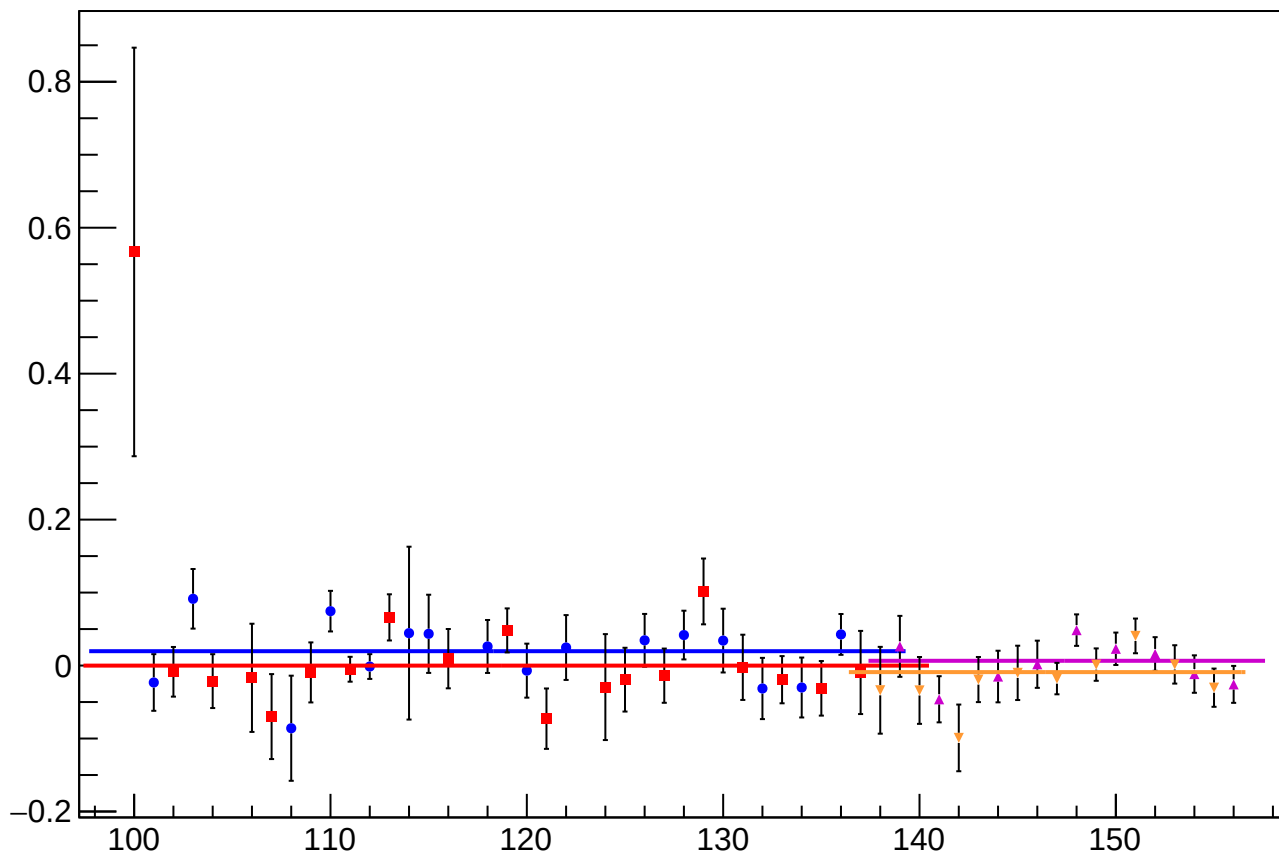
Right: 21.415 $\pm$ 0.004 χ^2 /NDF: 2852955.1/34

In: 22.825 $\pm$ 0.004 χ^2 /NDF:2243700.3/24

Out: 22.813 $\pm$ 0.004 χ^2 /NDF:2393841.2/28

All: 22.819 $\pm$ 0.003 χ^2 /NDF: 4637545.2/53

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: -0.009 ± 0.009 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.007 ± 0.009 $\chi^2/\text{NDF}: 10.0/8$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 21.5/18$

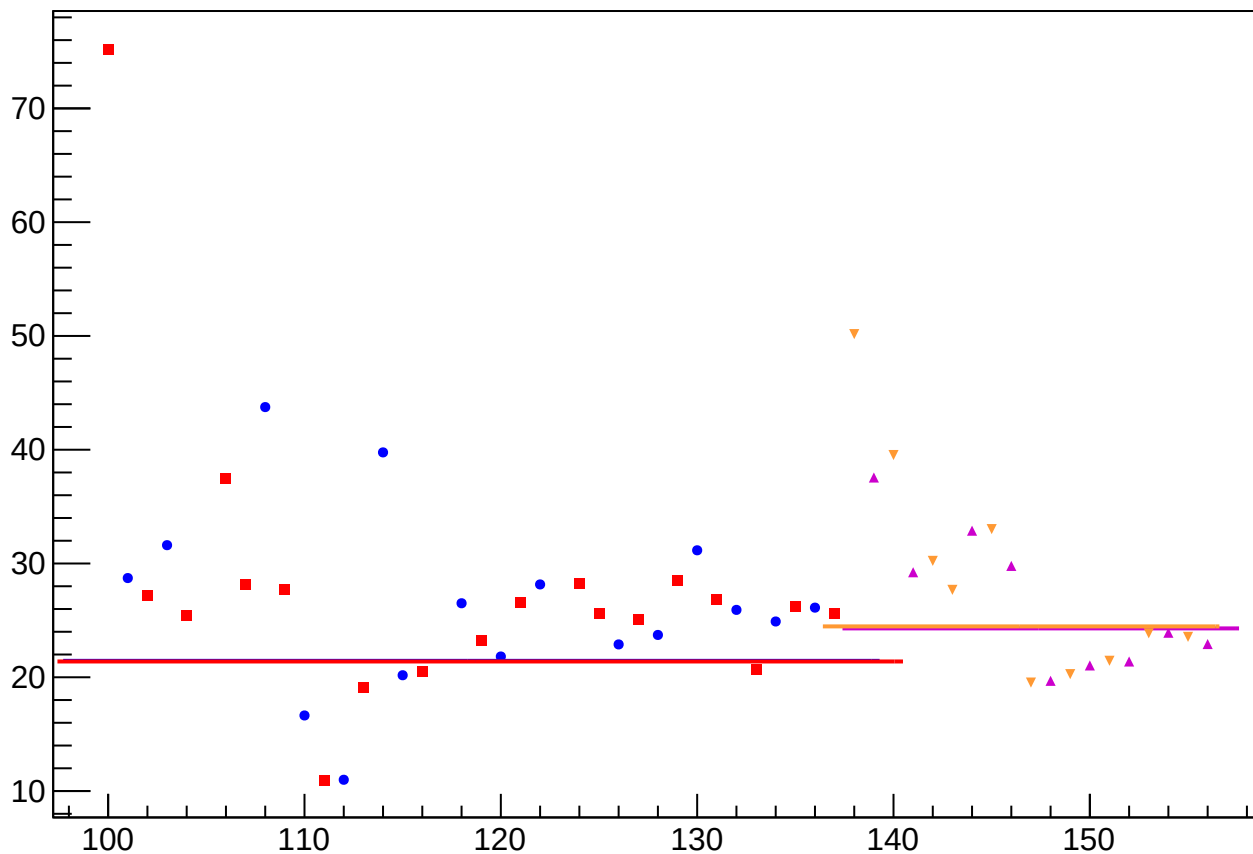
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.013 ± 0.006 $\chi^2/\text{NDF}: 28.2/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 33.4/28$

All: 0.005 ± 0.004 $\chi^2/\text{NDF}: 65.5/53$

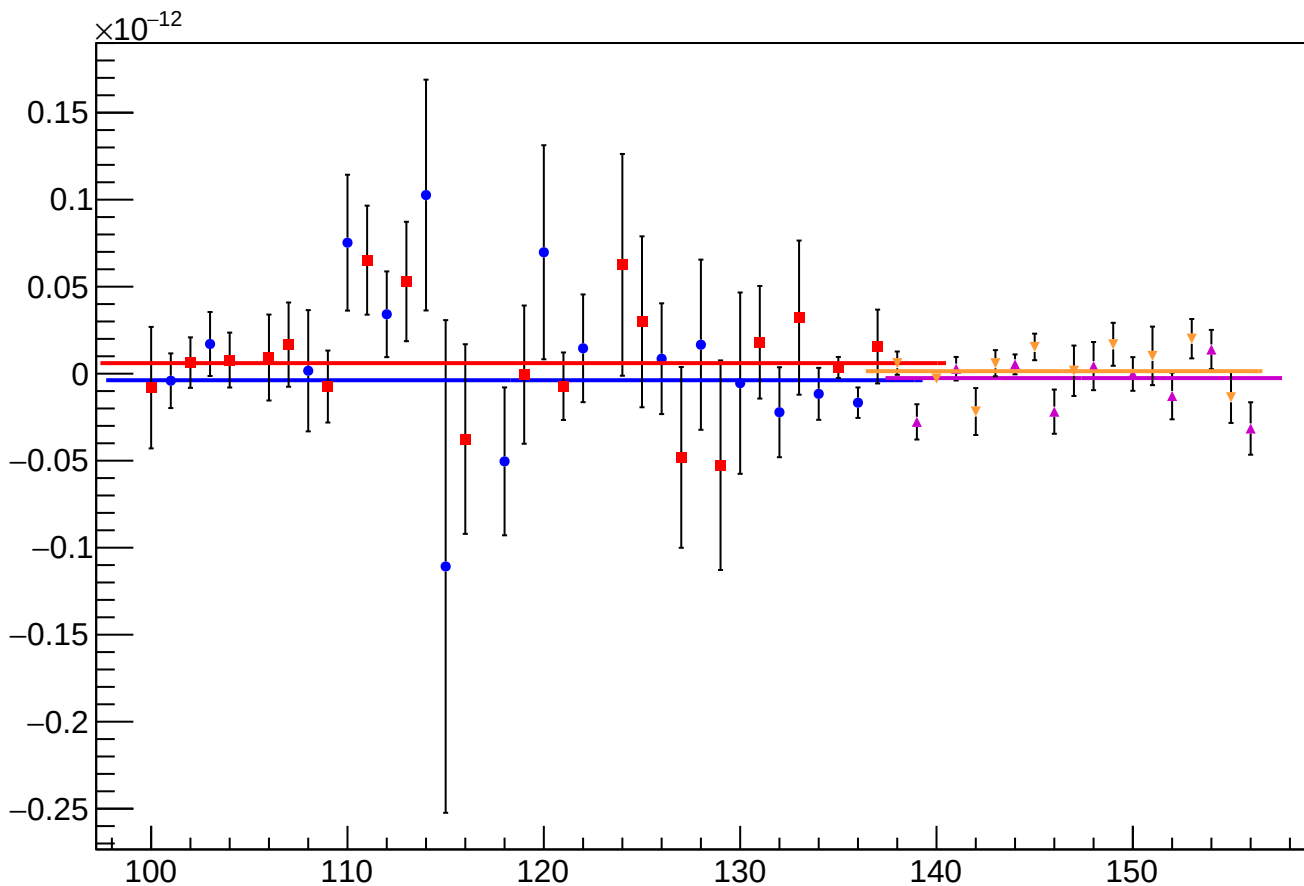
asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443 $\pm$ 0.006 χ^2 /NDF: 1540859.8/15
 Left Out: 24.472 $\pm$ 0.006 χ^2 /NDF: 960441.3/9
 Right Out: 21.389 $\pm$ 0.006 χ^2 /NDF: 1312055.7/18
 Left In: 24.295 $\pm$ 0.006 χ^2 /NDF: 598326.7/8

Left: 24.381 $\pm$ 0.005 χ^2 /NDF: 1559146.2/18
 Right: 21.415 $\pm$ 0.004 χ^2 /NDF: 2852955.1/34
 In: 22.825 $\pm$ 0.004 χ^2 /NDF: 2243700.3/24
 Out: 22.813 $\pm$ 0.004 χ^2 /NDF: 2393841.2/28
 All: 22.819 $\pm$ 0.003 χ^2 /NDF: 4637545.2/53

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:14.9/9

Right Out: 0.000+/-0.000 χ^2 /NDF: 11.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:17.7/8

Left: 0.000+/-0.000 χ^2 /NDF: 33.7/18

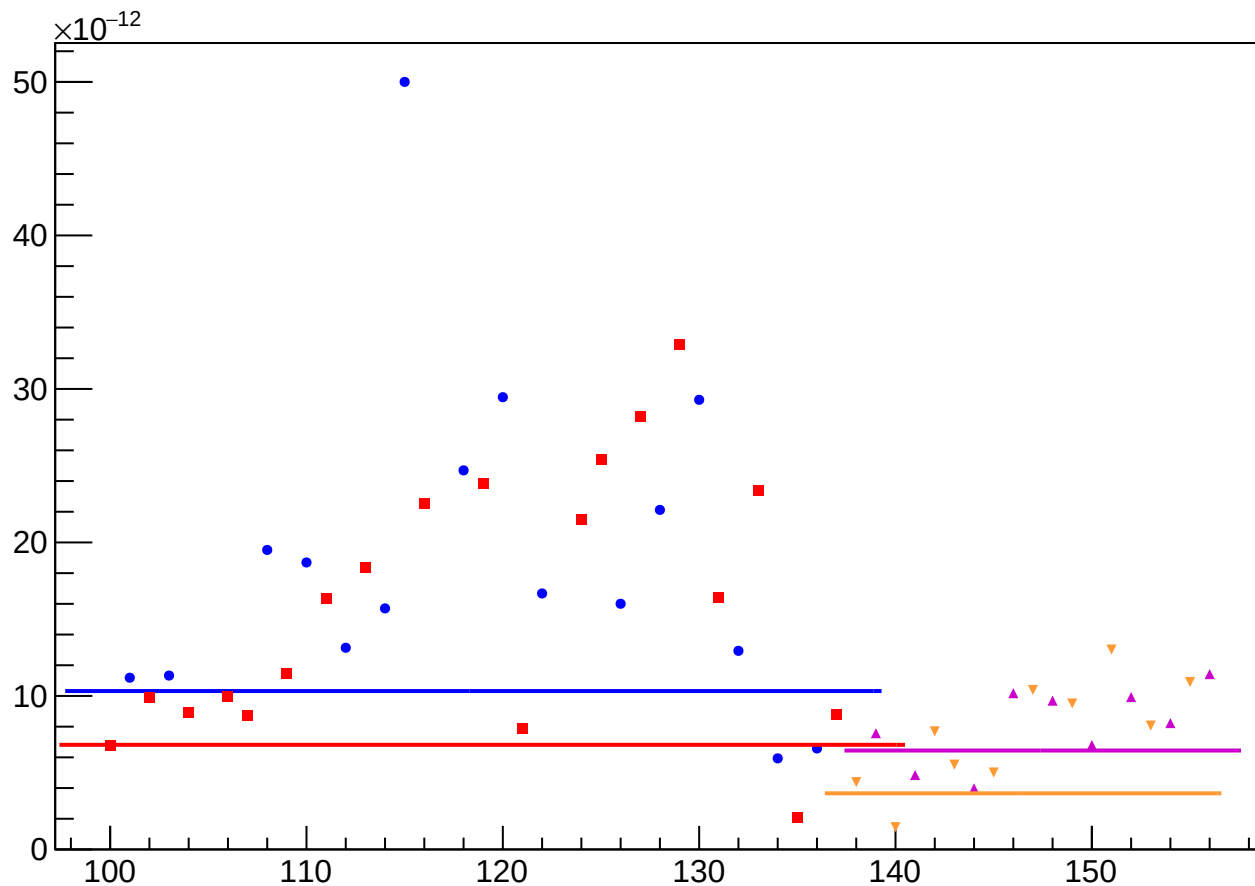
Right: 0.000+/-0.000 χ^2 /NDF: 30.5/34

In: -0.000+/-0.000 χ^2 /NDF:34.9/24

Out: 0.000+/-0.000 χ^2 /NDF:27.1/28

All: 0.000+/-0.000 χ^2 /NDF: 64.4/53

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 : 3849988.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4021812.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1197229.3/8

Left: 0.000+/-0.000 χ^2/NDF : 6115797.6/18

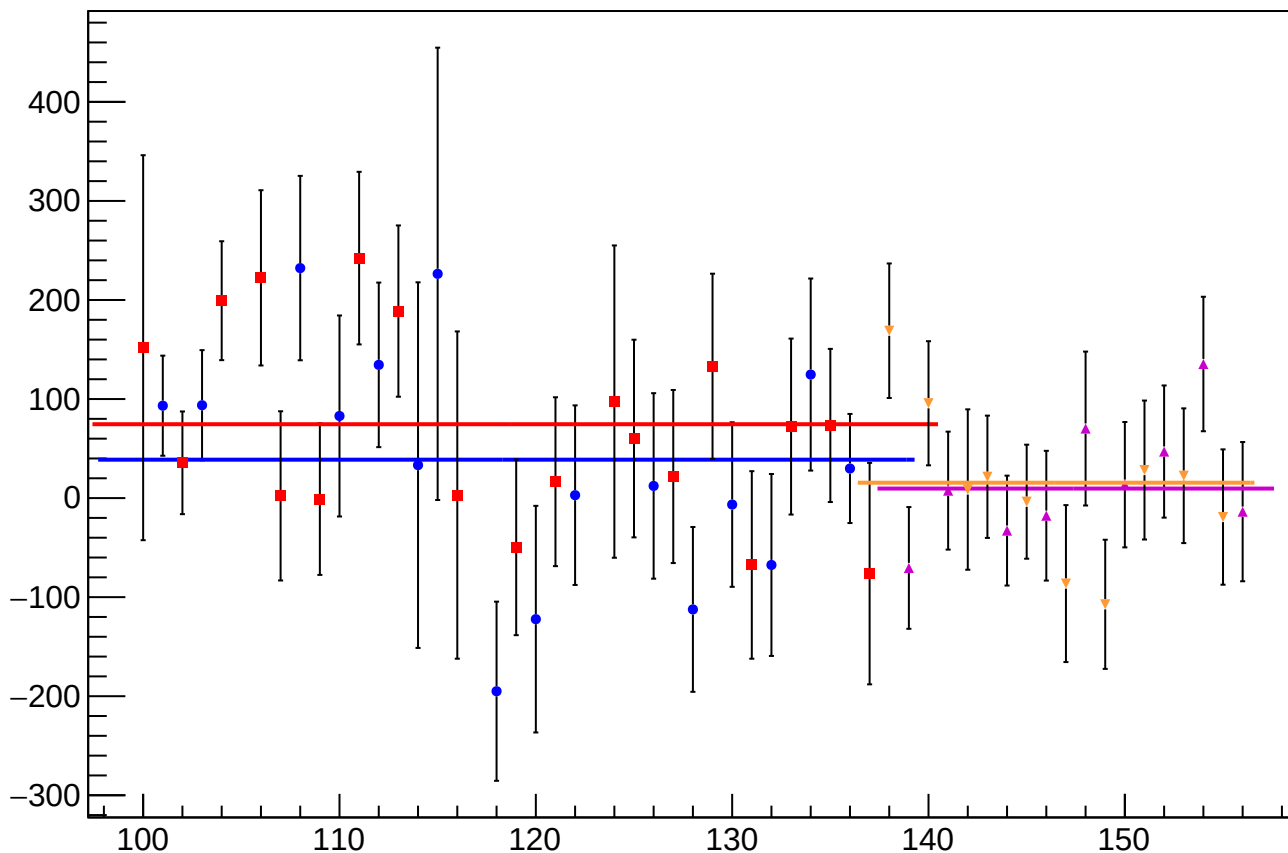
Right: 0.000+/-0.000 χ^2/NDF : 6473556.7/34

In: 0.000+/-0.000 χ^2/NDF : 3898913.5/24

Out: 0.000+/-0.000 χ^2/NDF : 8720061.6/28

All: 0.000+/-0.000 χ^2/NDF : 14335549.1/53

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: 15.543 $\pm$ 21.240 χ^2 /NDF:12.4/9

Right Out: 74.578 $\pm$ 19.802 χ^2 /NDF: 22.5/18

Left In: 9.622 $\pm$ 21.496 χ^2 /NDF:6.9/8

Left: 12.618 $\pm$ 15.109 χ^2 /NDF: 19.3/18

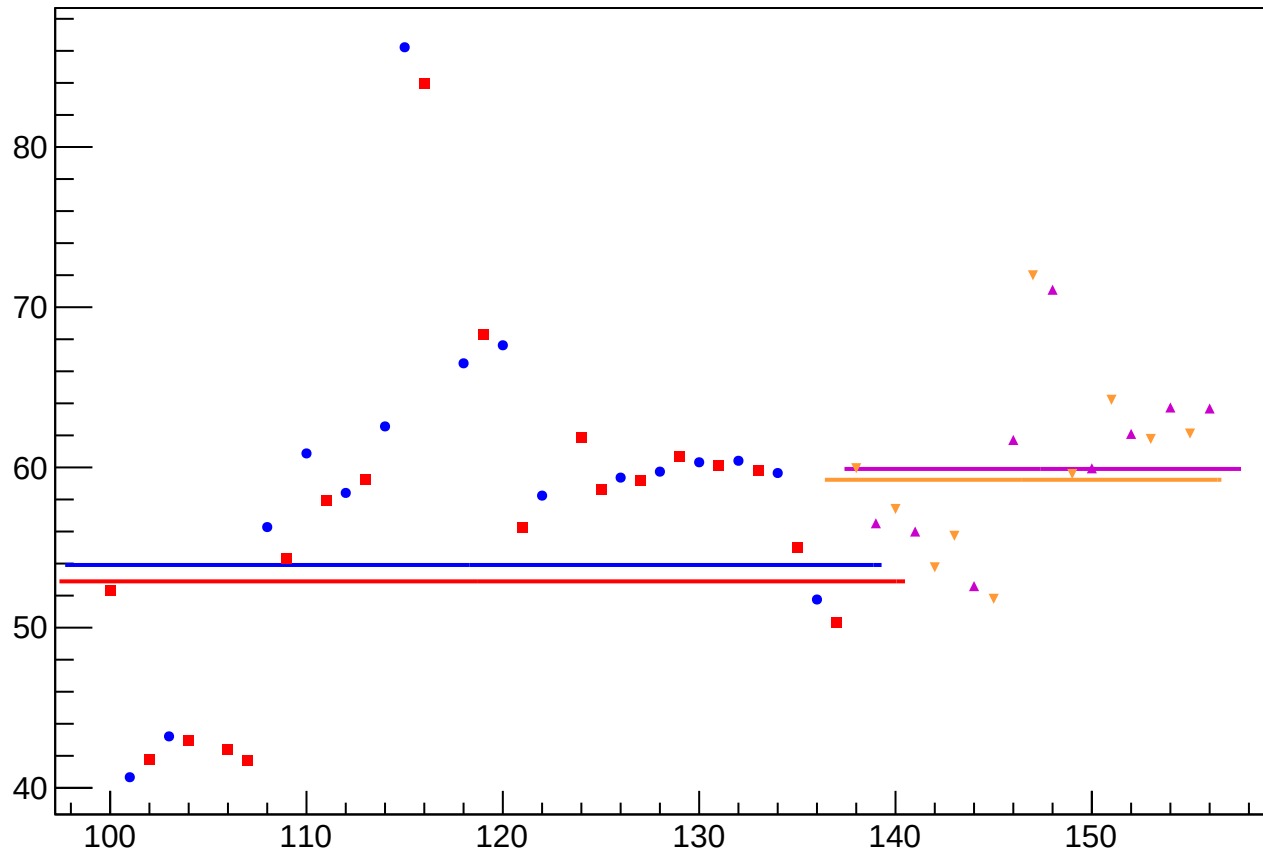
Right: 57.224 $\pm$ 14.213 χ^2 /NDF: 47.3/34

In: 24.955 $\pm$ 14.802 χ^2 /NDF:31.2/24

Out: 47.127 $\pm$ 14.484 χ^2 /NDF:39.0/28

All: 36.282 $\pm$ 10.352 χ^2 /NDF: 71.3/53

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: 59.230 $\pm$ 0.015 χ^2 /NDF: 119207.2/9

Right Out: 52.889 $\pm$ 0.014 χ^2 /NDF: 425226.7/18

Left In: 59.906 $\pm$ 0.015 χ^2 /NDF: 106722.2/8

Left: 59.564 $\pm$ 0.011 χ^2 /NDF: 226929.7/18

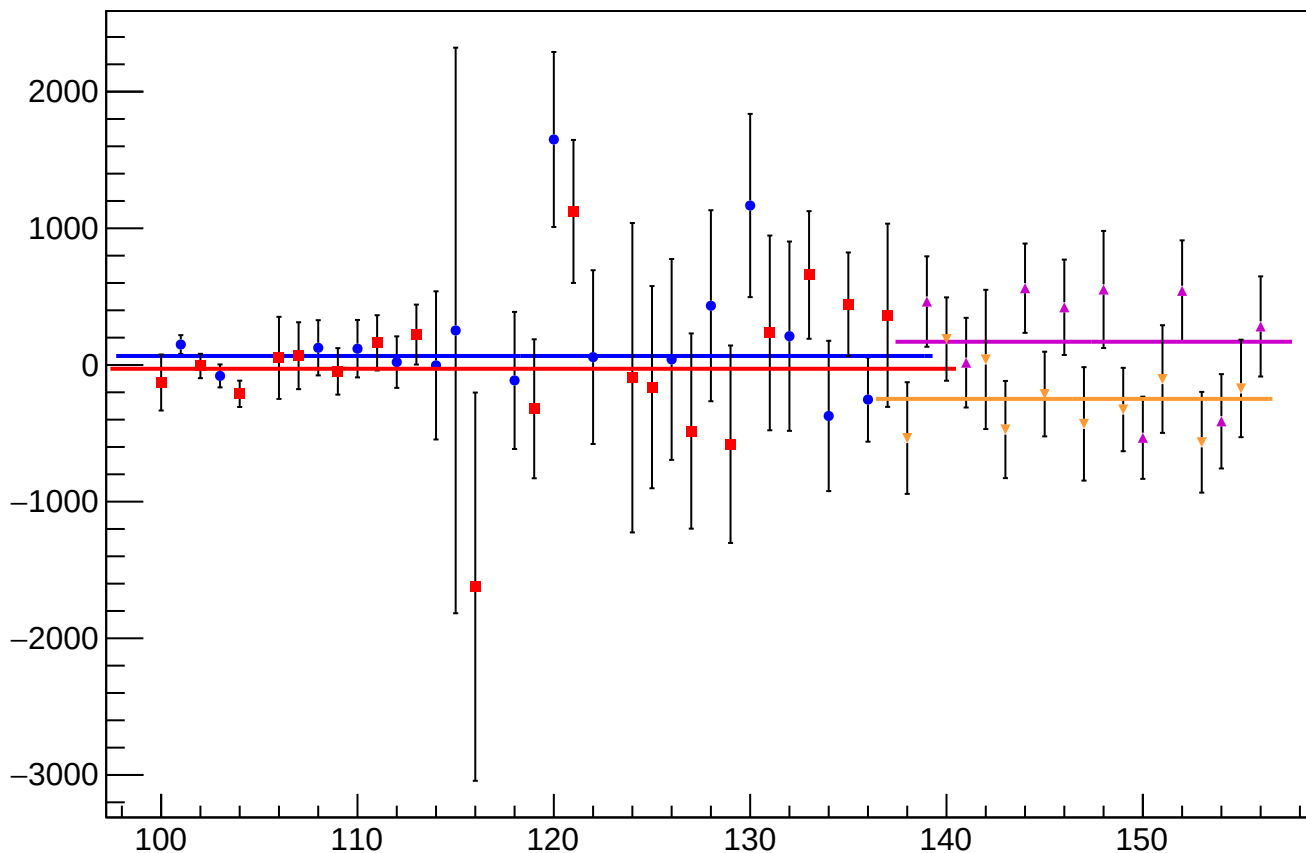
Right: 53.385 $\pm$ 0.010 χ^2 /NDF: 821077.5/34

In: 56.754 $\pm$ 0.010 χ^2 /NDF: 581733.7/24

Out: 55.837 $\pm$ 0.010 χ^2 /NDF: 639794.1/28

All: 56.286 $\pm$ 0.007 χ^2 /NDF: 1225446.4/53

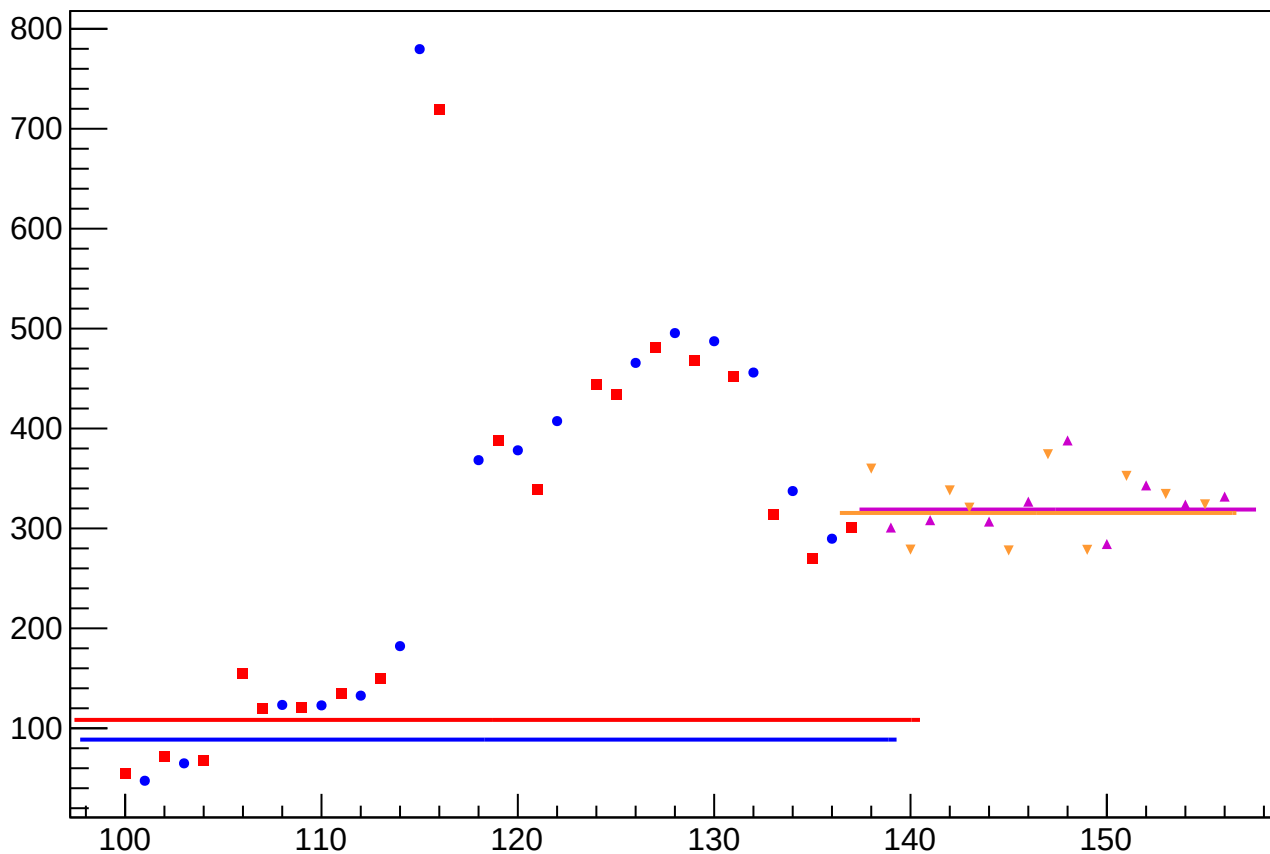
asym_sam_15_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 65.853+/-46.478 χ^2/NDF : 15.7/15
 Left Out: -248.155+/-113.852 χ^2/NDF : 4.5/9
 Right Out: -27.850+/-50.291 χ^2/NDF : 18.0/18
 Left In: 169.928+/-114.937 χ^2/NDF : 13.2/8

Left: -41.096+/-80.886 χ^2/NDF : 24.3/18
 Right: 22.688+/-34.134 χ^2/NDF : 35.6/34
 In: 80.480+/-43.089 χ^2/NDF : 29.6/24
 Out: -63.818+/-46.003 χ^2/NDF : 25.6/28
 All: 13.046+/-31.448 χ^2/NDF : 60.4/53

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: 315.489+/-0.081 χ^2/NDF : 179796.1/9

Right Out: 108.385+/-0.036 χ^2/NDF : 5362841.6/18

Left In: 318.906+/-0.081 χ^2/NDF : 101664.9/8

Left: 317.181+/-0.057 χ^2/NDF : 282353.0/18

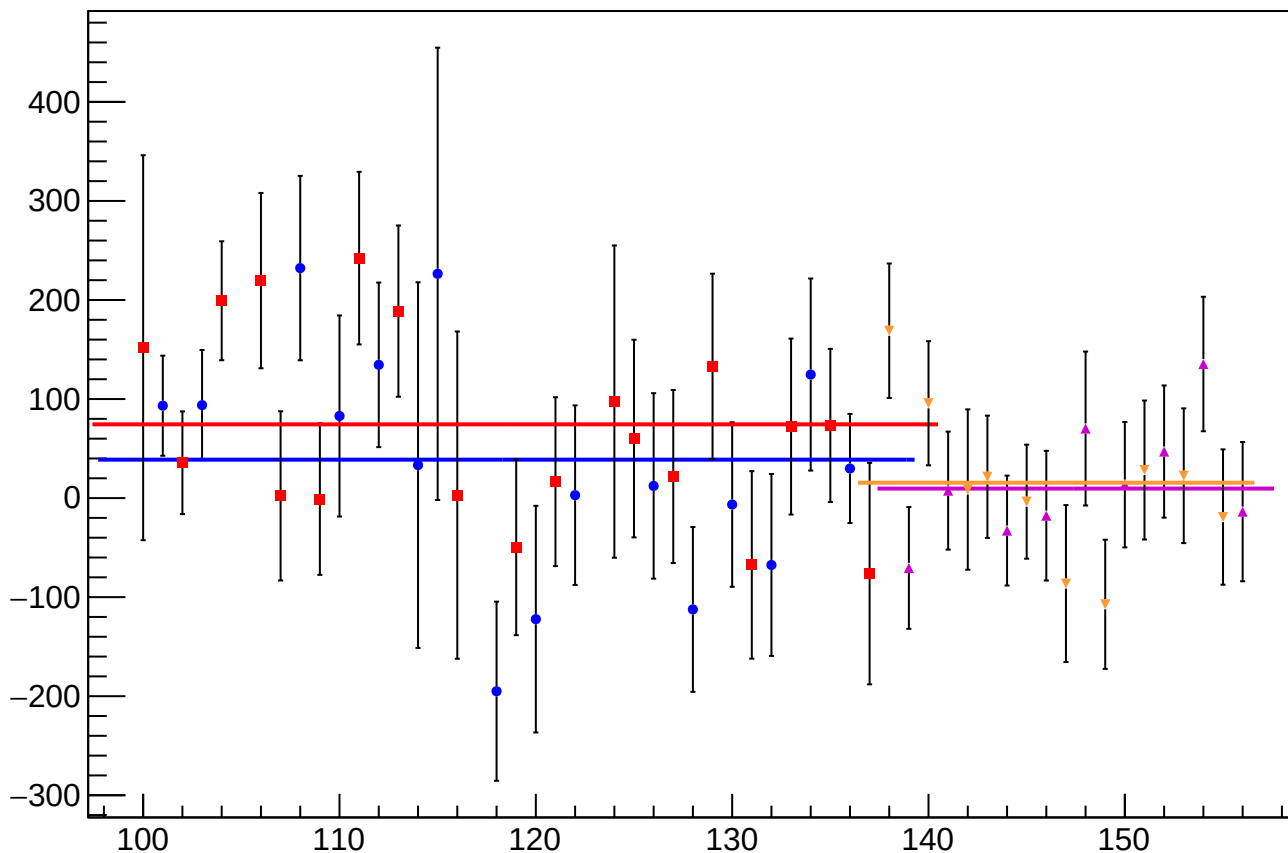
Right: 97.745+/-0.024 χ^2/NDF : 12176874.0/34

In: 121.017+/-0.030 χ^2/NDF : 13647771.4/24

Out: 142.198+/-0.033 χ^2/NDF : 11080122.3/28

All: 130.916+/-0.022 χ^2/NDF : 24953729.1/53

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: 15.545 $\pm$ 21.240 χ^2 /NDF:12.4/9

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: 9.621 $\pm$ 21.496 χ^2 /NDF:6.9/8

Left: 12.619 $\pm$ 15.109 χ^2 /NDF: 19.3/18

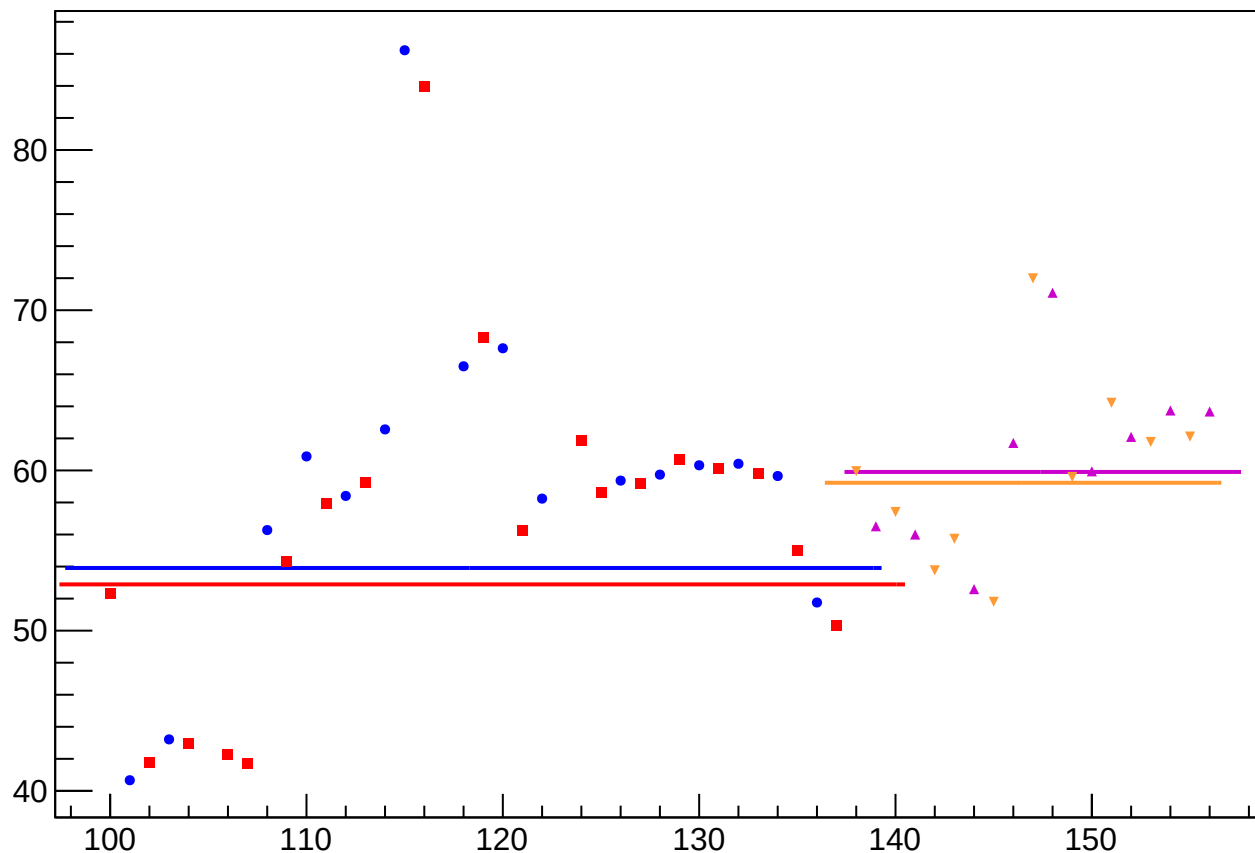
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 24.961 $\pm$ 14.802 χ^2 /NDF:31.2/24

Out: 47.053 $\pm$ 14.484 χ^2 /NDF:38.8/28

All: 36.247 $\pm$ 10.352 χ^2 /NDF: 71.2/53

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: 59.230 $\pm$ 0.015 χ^2 /NDF: 119207.2/9

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 59.906 $\pm$ 0.015 χ^2 /NDF: 106722.2/8

Left: 59.564 $\pm$ 0.011 χ^2 /NDF: 226929.7/18

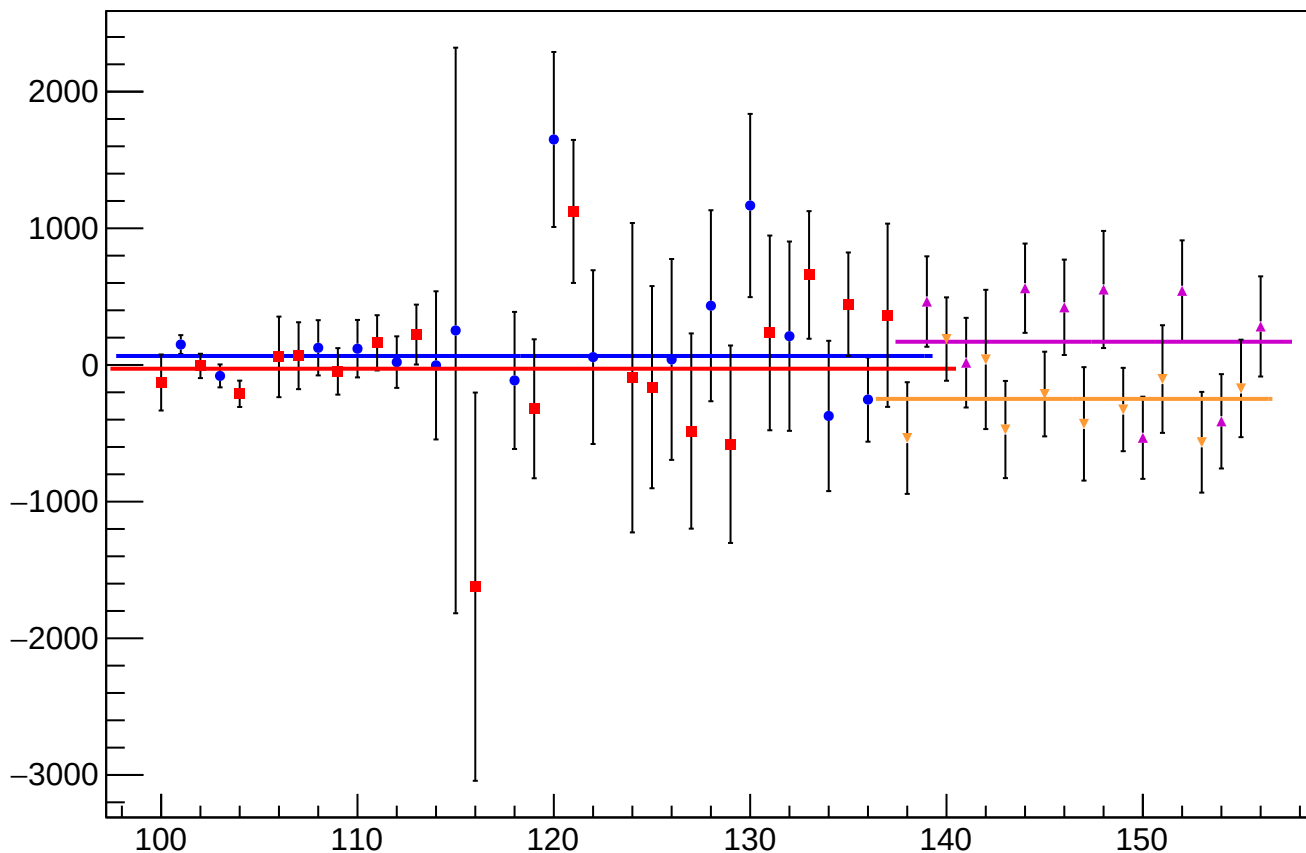
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 56.754 $\pm$ 0.010 χ^2 /NDF: 581732.9/24

Out: 55.836 $\pm$ 0.010 χ^2 /NDF: 640162.9/28

All: 56.285 $\pm$ 0.007 χ^2 /NDF: 1225822.6/53

asym_sam_15_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857+/-46.477 χ^2/NDF : 15.7/15

Left Out: -248.154+/-113.852 χ^2/NDF : 4.5/9

Right Out: -27.406+/-50.249 χ^2/NDF : 18.0/18

Left In: 169.926+/-114.937 χ^2/NDF : 13.2/8

Left: -41.097+/-80.886 χ^2/NDF : 24.3/18

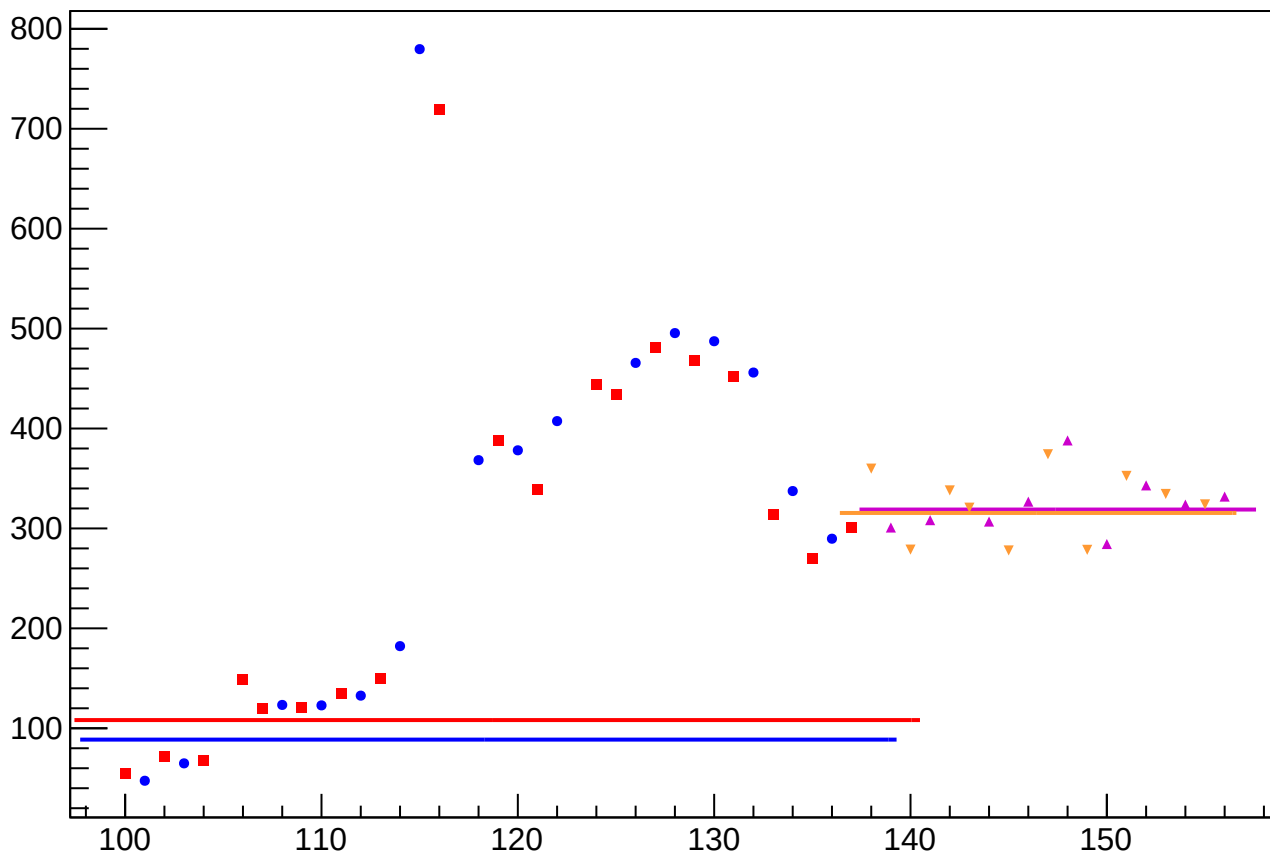
Right: 22.856+/-34.120 χ^2/NDF : 35.6/34

In: 80.482+/-43.088 χ^2/NDF : 29.6/24

Out: -63.395+/-45.970 χ^2/NDF : 25.6/28

All: 13.196+/-31.437 χ^2/NDF : 60.4/53

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: 315.489+/-0.081 χ^2/NDF : 179795.7/9

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 318.905+/-0.081 χ^2/NDF : 101666.1/8

Left: 317.181+/-0.057 χ^2/NDF : 282353.7/18

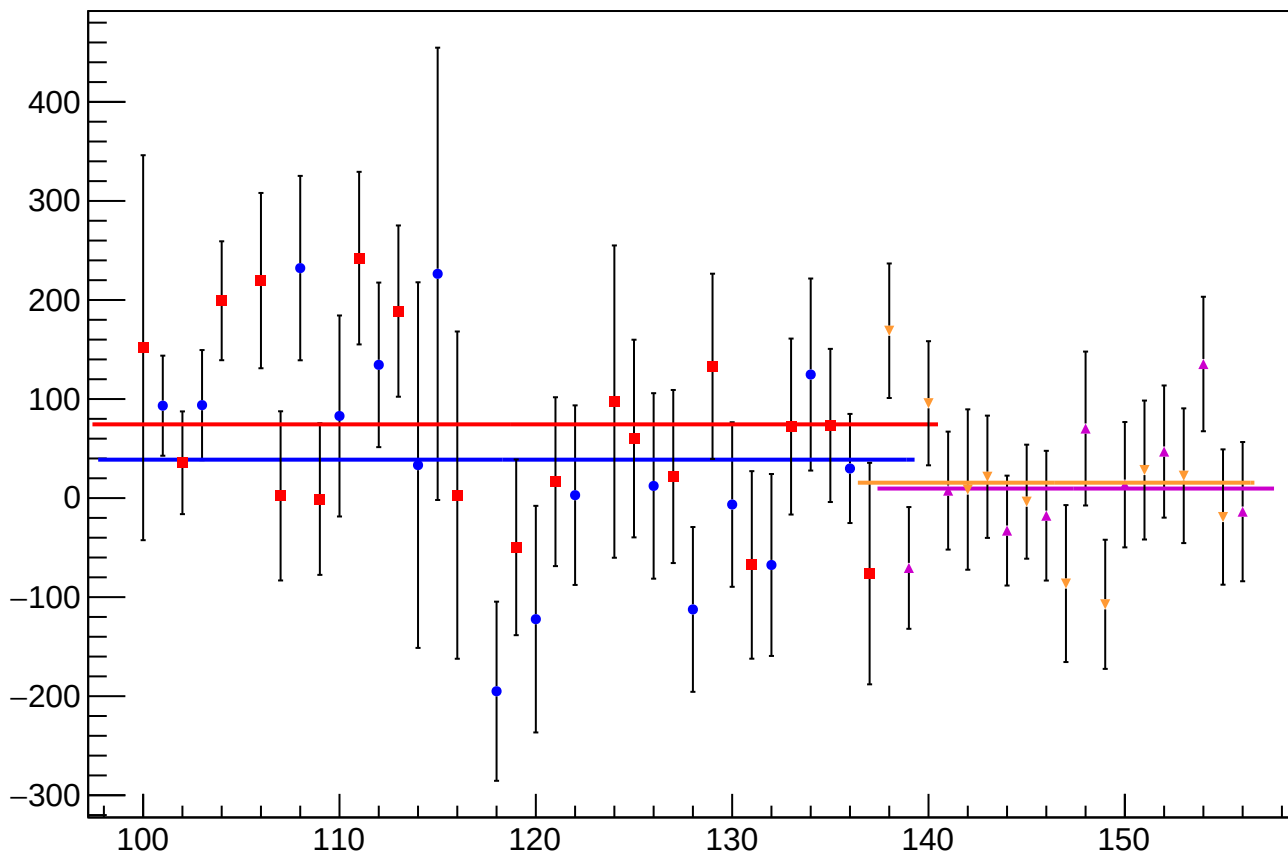
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 121.014+/-0.030 χ^2/NDF : 13648038.2/24

Out: 142.000+/-0.033 χ^2/NDF : 11083238.8/28

All: 130.829+/-0.022 χ^2/NDF : 24953162.7/53

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: 15.545 $\pm$ 21.240 χ^2 /NDF:12.4/9

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: 9.621 $\pm$ 21.496 χ^2 /NDF:6.9/8

Left: 12.619 $\pm$ 15.109 χ^2 /NDF: 19.3/18

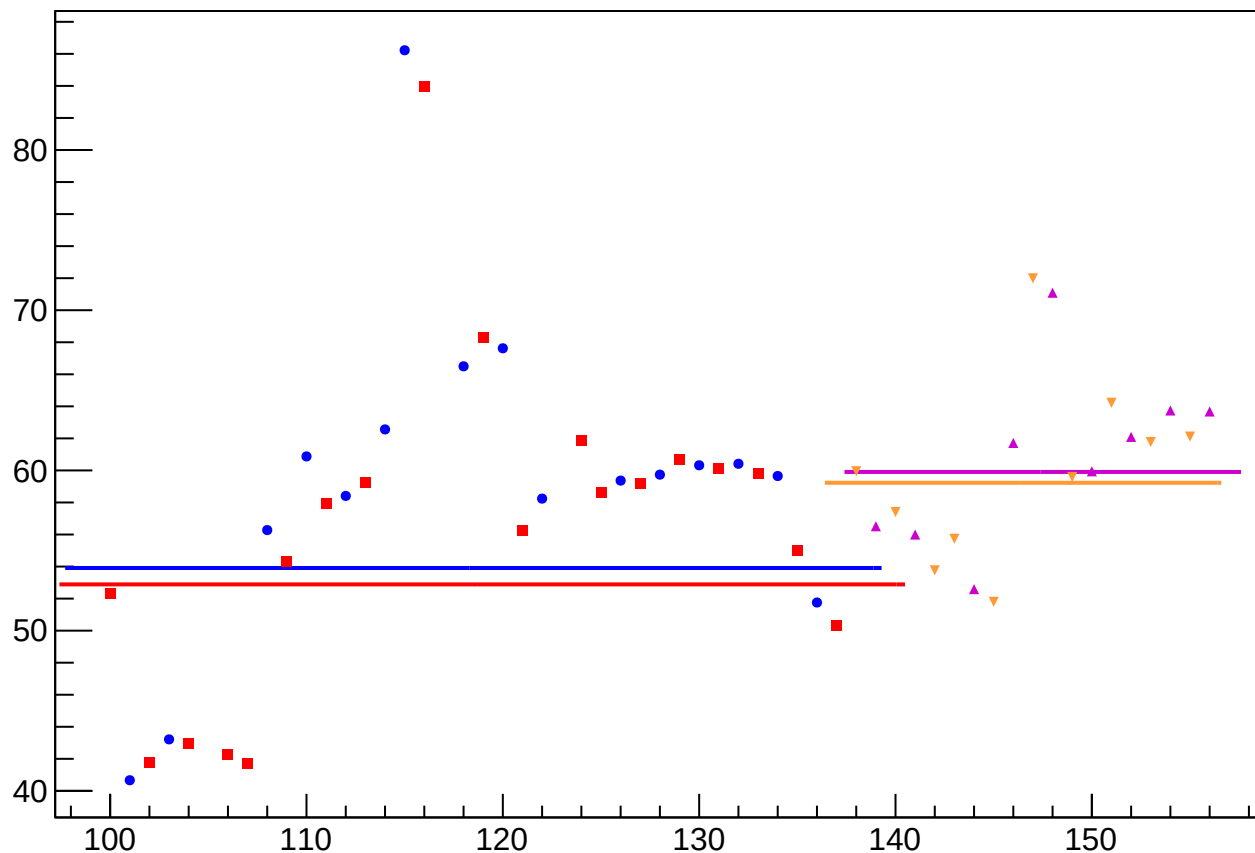
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 24.961 $\pm$ 14.802 χ^2 /NDF:31.2/24

Out: 47.053 $\pm$ 14.484 χ^2 /NDF:38.8/28

All: 36.247 $\pm$ 10.352 χ^2 /NDF: 71.2/53

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: 59.230 $\pm$ 0.015 χ^2 /NDF: 119207.2/9

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 59.906 $\pm$ 0.015 χ^2 /NDF: 106722.2/8

Left: 59.564 $\pm$ 0.011 χ^2 /NDF: 226929.7/18

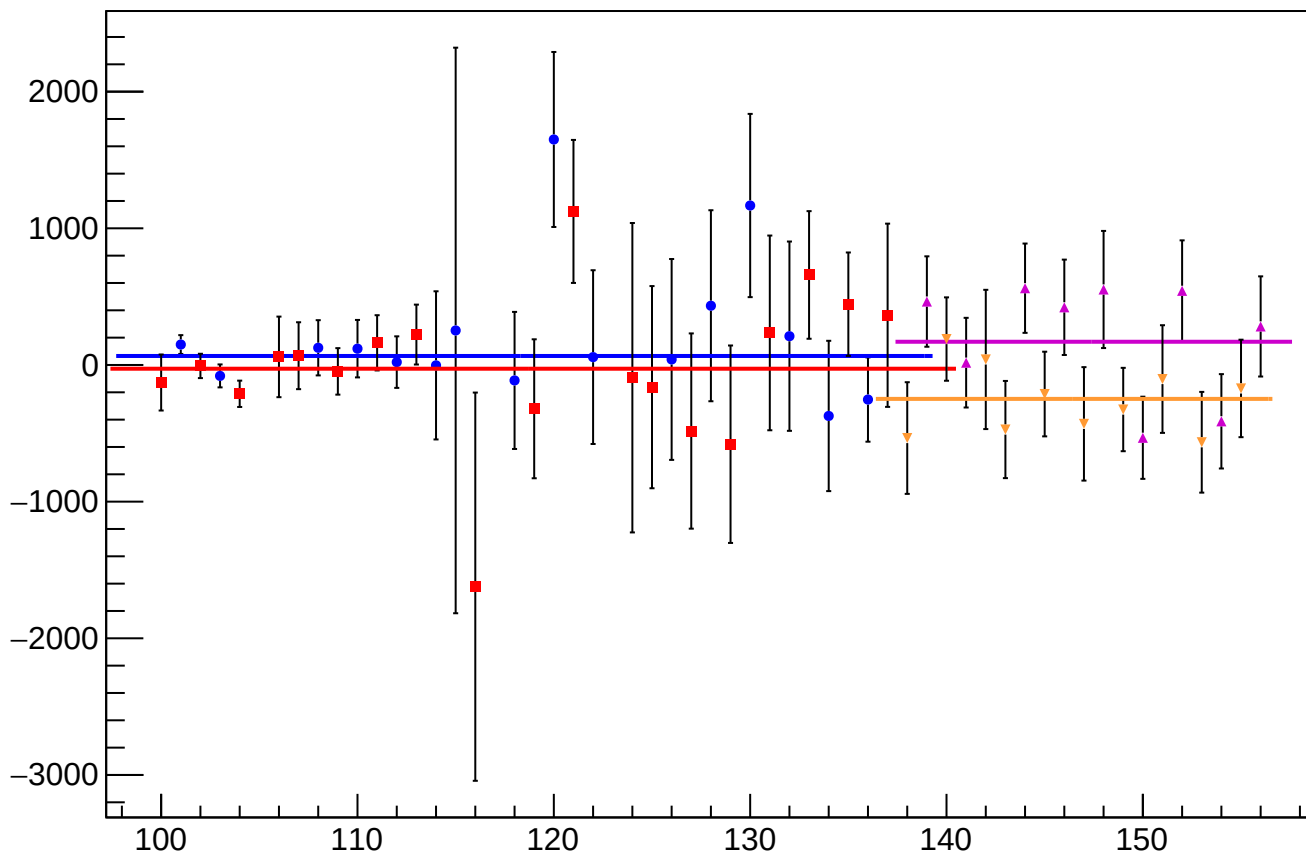
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 56.754 $\pm$ 0.010 χ^2 /NDF: 581732.9/24

Out: 55.836 $\pm$ 0.010 χ^2 /NDF: 640162.9/28

All: 56.285 $\pm$ 0.007 χ^2 /NDF: 1225822.6/53

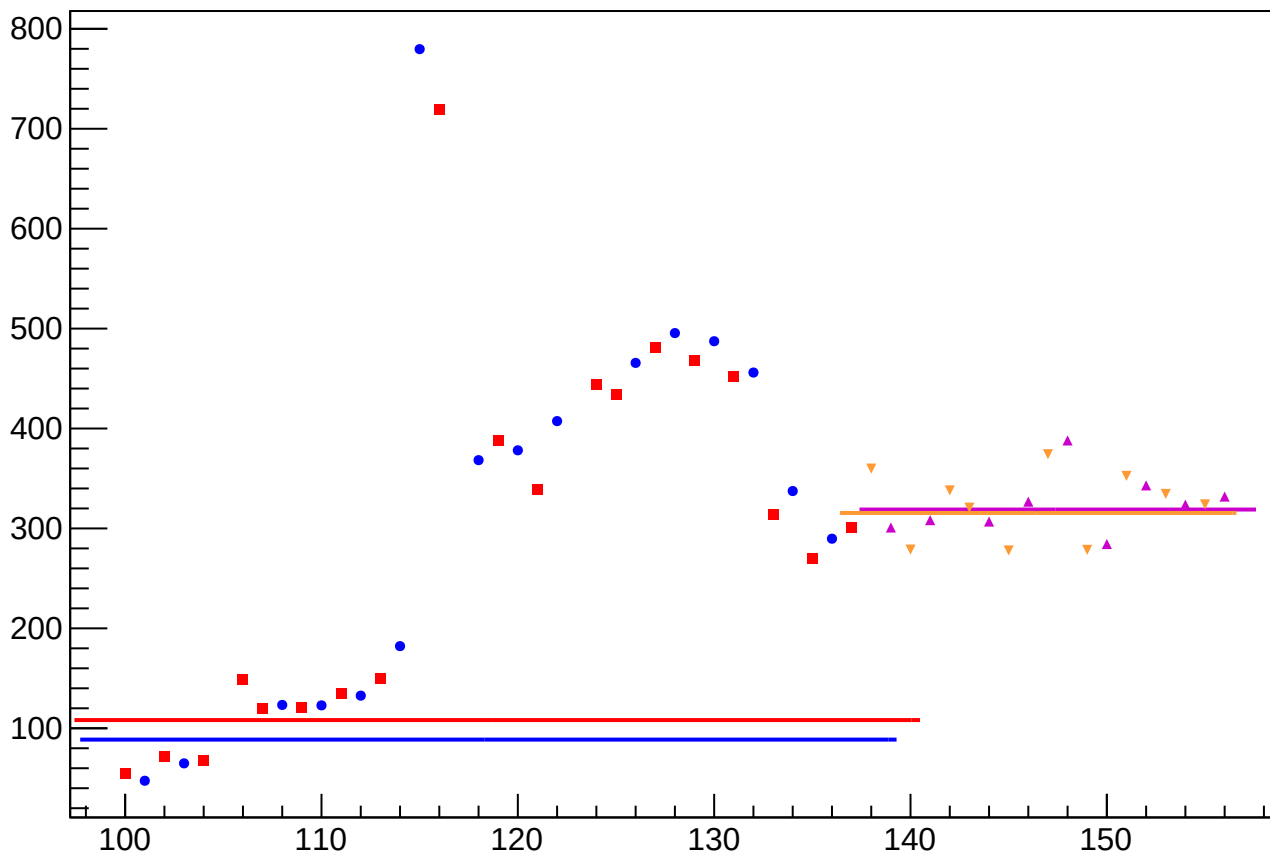
asym_sam_15_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857 ± 46.477 χ^2/NDF : 15.7/15
 Left Out: -248.154 ± 113.852 χ^2/NDF : 4.5/9
 Right Out: -27.406 ± 50.249 χ^2/NDF : 18.0/18
 Left In: 169.926 ± 114.937 χ^2/NDF : 13.2/8

Left: -41.097 ± 80.886 χ^2/NDF : 24.3/18
 Right: 22.856 ± 34.120 χ^2/NDF : 35.6/34
 In: 80.482 ± 43.088 χ^2/NDF : 29.6/24
 Out: -63.395 ± 45.970 χ^2/NDF : 25.6/28
 All: 13.196 ± 31.437 χ^2/NDF : 60.4/53

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: 315.489+/-0.081 χ^2/NDF : 179795.7/9

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 318.905+/-0.081 χ^2/NDF : 101666.1/8

Left: 317.181+/-0.057 χ^2/NDF : 282353.7/18

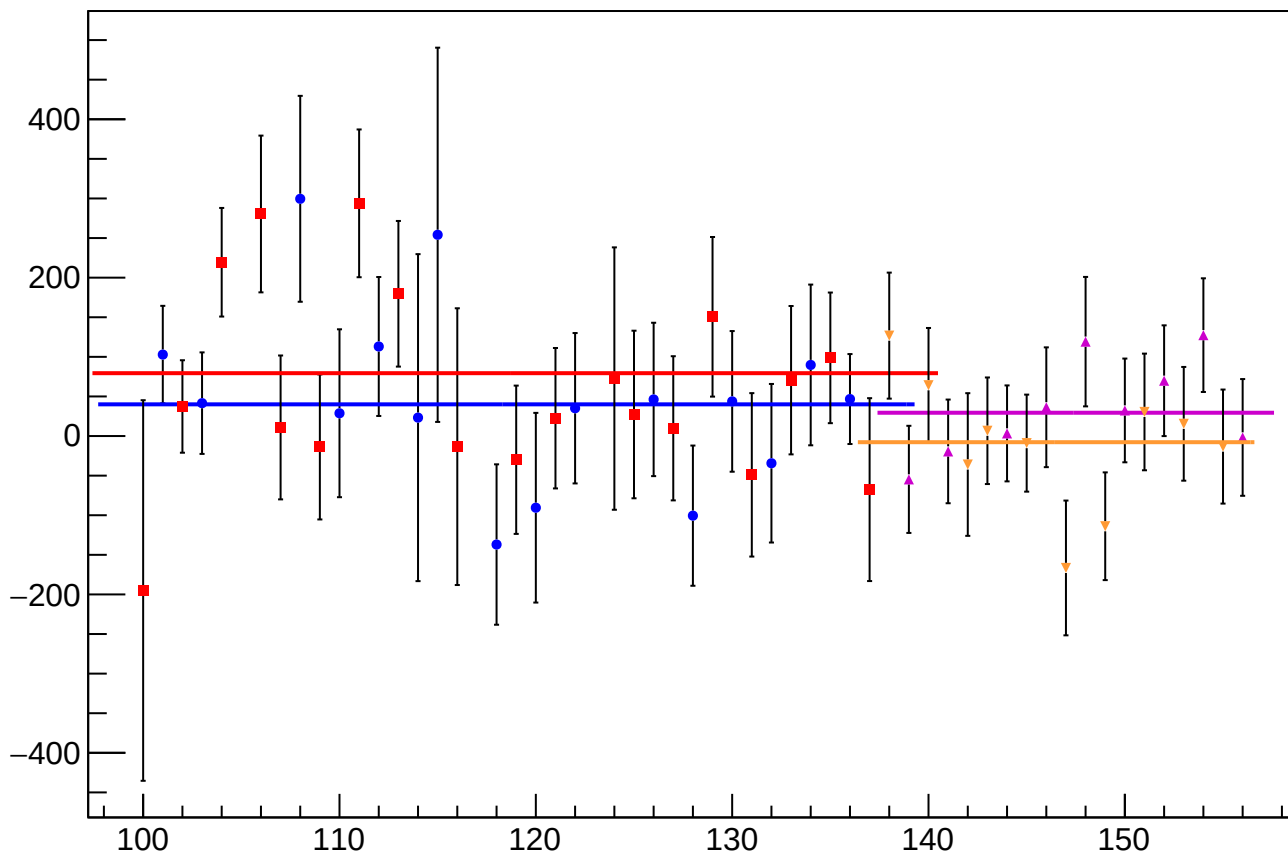
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 121.014+/-0.030 χ^2/NDF : 13648038.2/24

Out: 142.000+/-0.033 χ^2/NDF : 11083238.8/28

All: 130.829+/-0.022 χ^2/NDF : 24953162.7/53

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: -7.771 $\pm$ 23.033 χ^2 /NDF:10.3/9

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: 29.417 $\pm$ 23.157 χ^2 /NDF:5.9/8

Left: 10.722 $\pm$ 16.330 χ^2 /NDF: 17.5/18

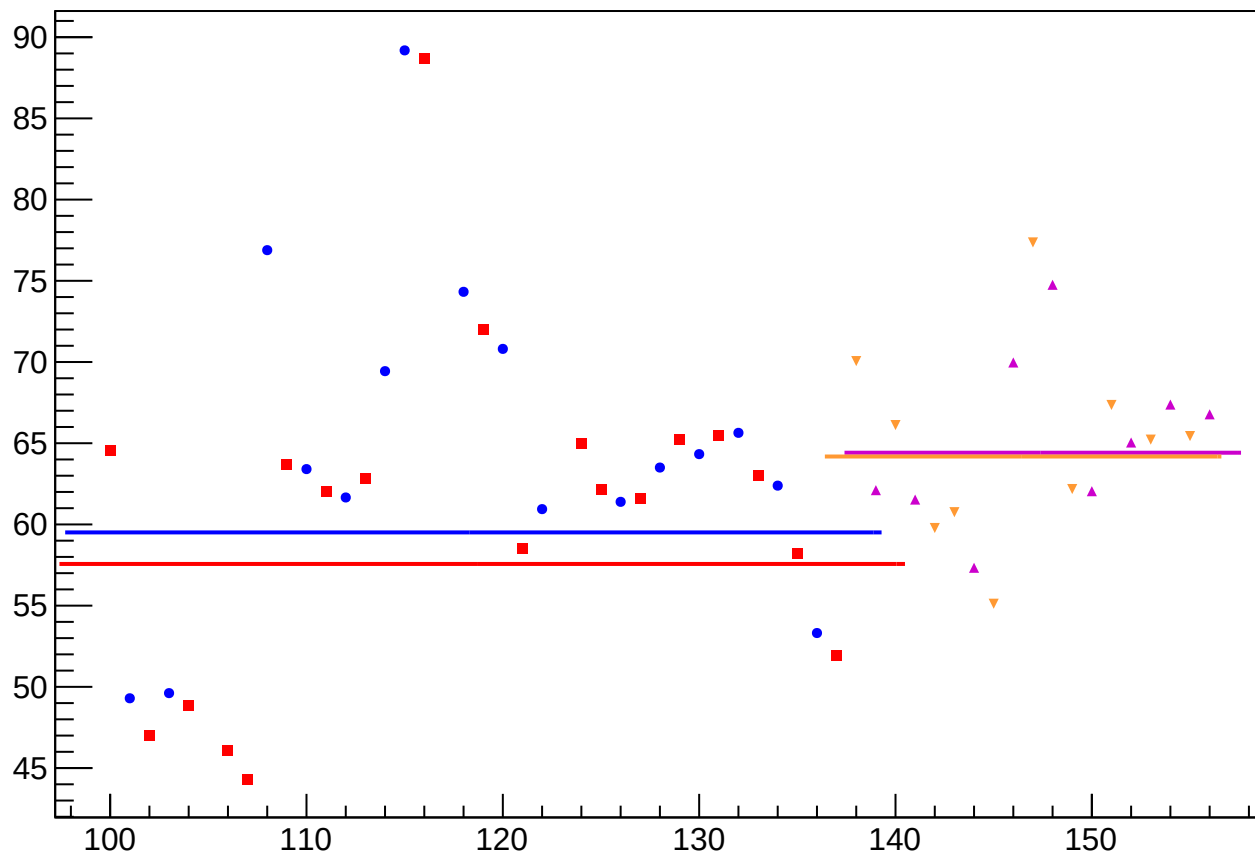
Right: 60.541 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 34.873 $\pm$ 16.143 χ^2 /NDF:20.1/24

Out: 38.644 $\pm$ 15.747 χ^2 /NDF:42.7/28

All: 36.805 $\pm$ 11.272 χ^2 /NDF: 62.9/53

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: 64.182 $\pm$ 0.016 χ^2 /NDF:120558.9/9

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347377.8/18

Left In: 64.416 $\pm$ 0.016 χ^2 /NDF:84600.0/8

Left: 64.298 $\pm$ 0.012 χ^2 /NDF: 205261.2/18

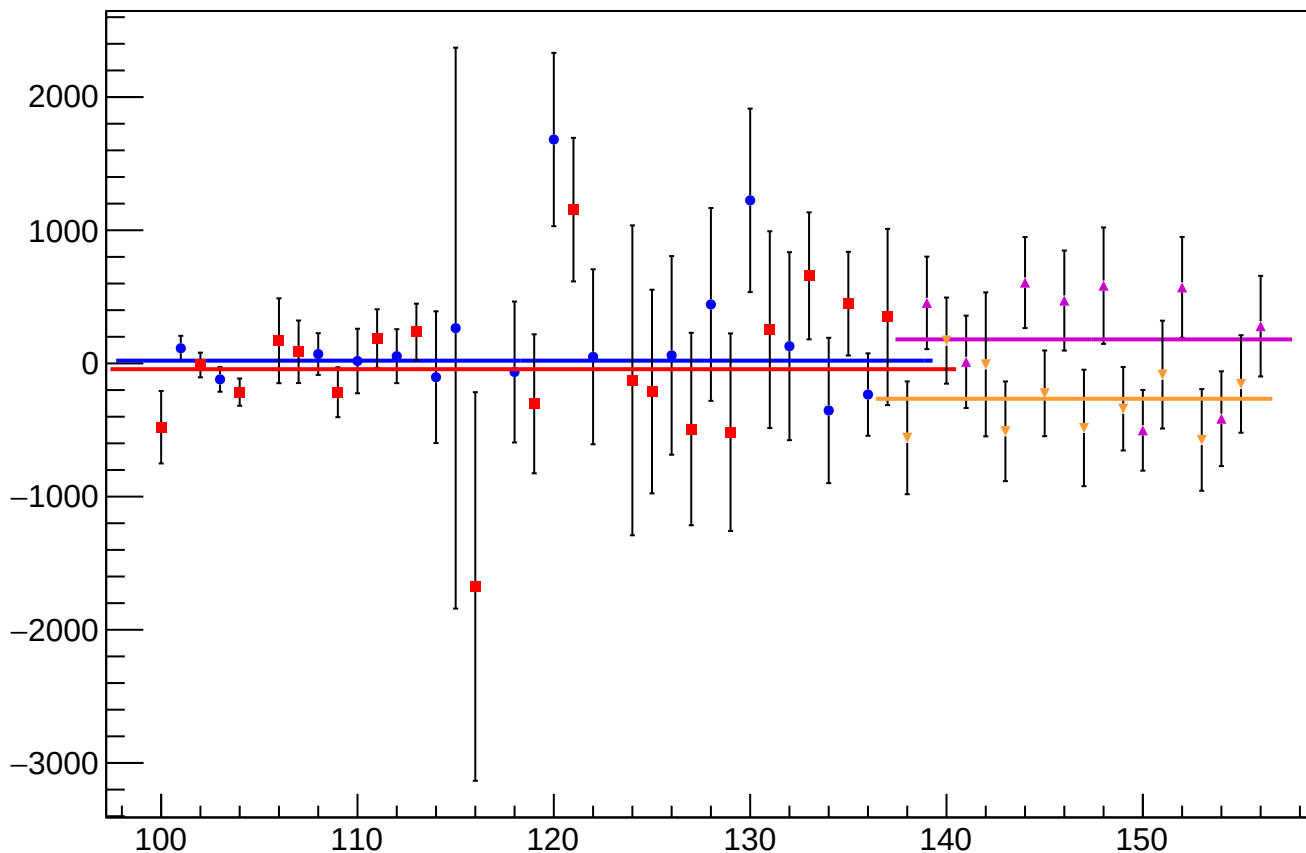
Right: 58.497 $\pm$ 0.011 χ^2 /NDF: 638326.1/34

In: 61.893 $\pm$ 0.011 χ^2 /NDF:413954.9/24

Out: 60.659 $\pm$ 0.011 χ^2 /NDF:555806.8/28

All: 61.261 $\pm$ 0.008 χ^2 /NDF: 975753.0/53

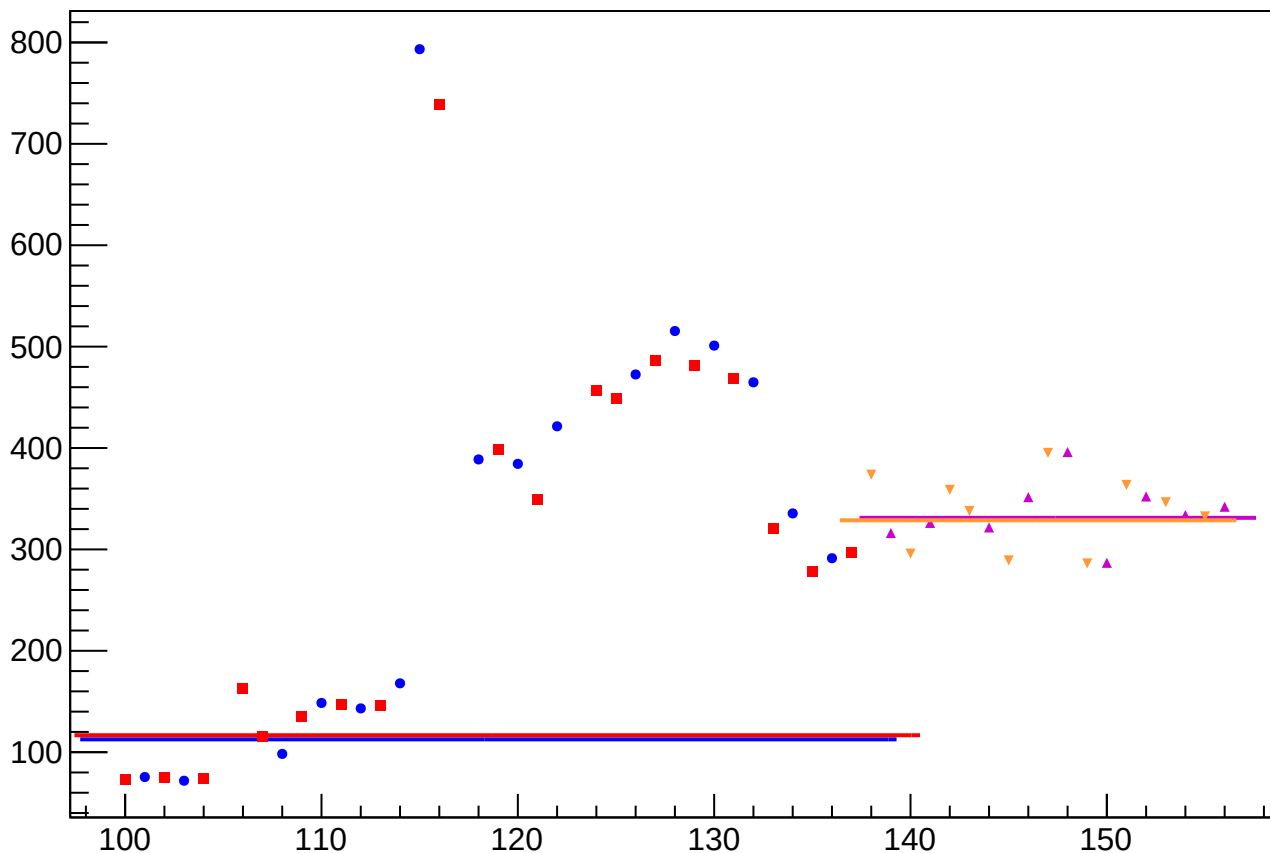
asym_sam_15_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840 ± 53.585 $\chi^2/\text{NDF}: 14.6/15$
 Left Out: -265.513 ± 118.512 $\chi^2/\text{NDF}: 4.2/9$
 Right Out: -43.262 ± 53.210 $\chi^2/\text{NDF}: 21.5/18$
 Left In: 180.440 ± 119.315 $\chi^2/\text{NDF}: 12.9/8$

Left: -44.042 ± 84.083 $\chi^2/\text{NDF}: 24.1/18$
 Right: -11.436 ± 37.757 $\chi^2/\text{NDF}: 36.9/34$
 In: 47.628 ± 48.882 $\chi^2/\text{NDF}: 29.0/24$
 Out: -80.549 ± 48.542 $\chi^2/\text{NDF}: 28.7/28$
 All: -16.907 ± 34.444 $\chi^2/\text{NDF}: 61.1/53$

asym_sam_15_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 112.668 ± 0.038 $\chi^2/\text{NDF}: 5599655.1/15$

Left Out: 328.718 ± 0.084 $\chi^2/\text{NDF}: 183255.6/9$

Right Out: 116.733 ± 0.038 $\chi^2/\text{NDF}: 5141387.7/18$

Left In: 331.154 ± 0.084 $\chi^2/\text{NDF}: 106499.9/8$

Left: 329.928 ± 0.059 $\chi^2/\text{NDF}: 290175.3/18$

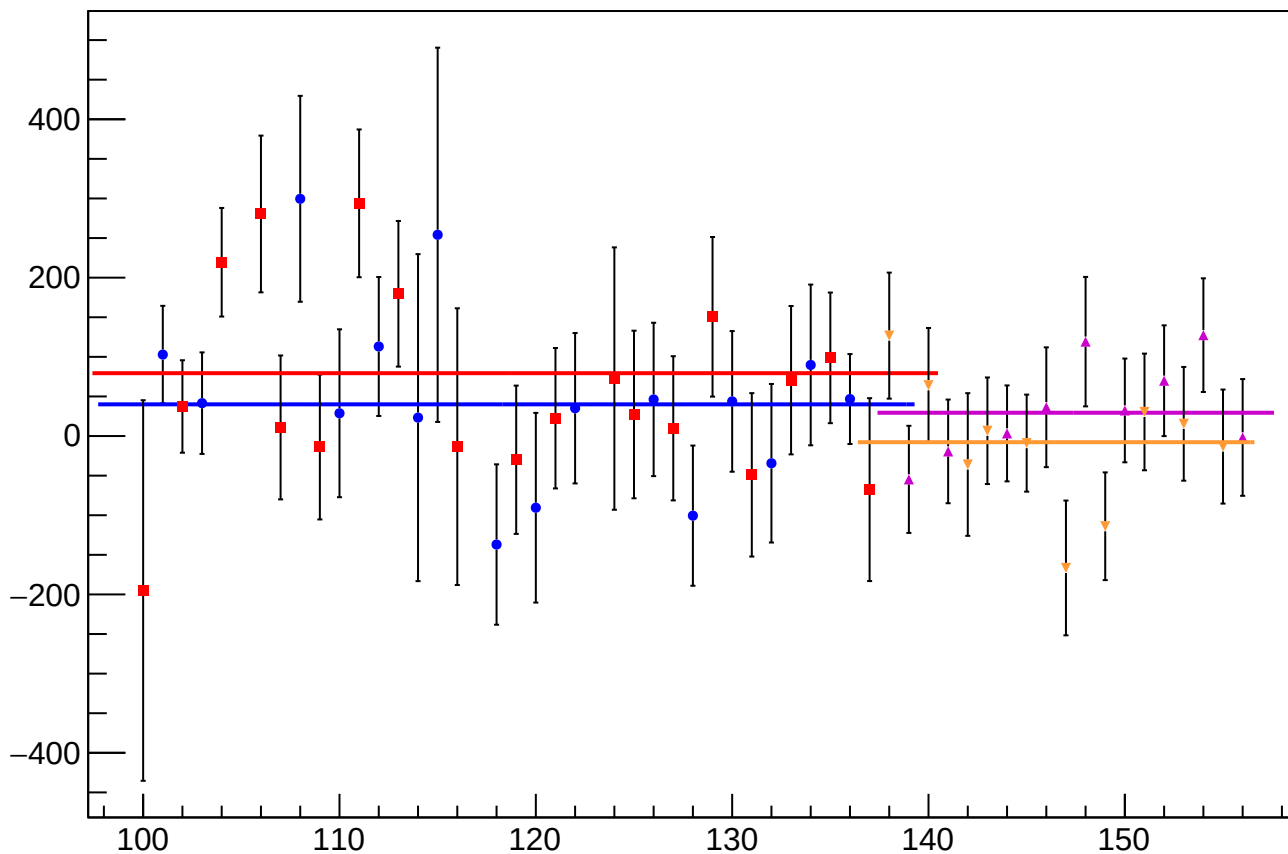
Right: 114.715 ± 0.027 $\chi^2/\text{NDF}: 10746836.7/34$

In: 149.340 ± 0.035 $\chi^2/\text{NDF}: 11286934.4/24$

Out: 152.297 ± 0.034 $\chi^2/\text{NDF}: 10650148.8/28$

All: 150.829 ± 0.024 $\chi^2/\text{NDF}: 21940769.0/53$

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: -7.771 $\pm$ 23.033 χ^2 /NDF:10.3/9

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: 29.418 $\pm$ 23.158 χ^2 /NDF:5.9/8

Left: 10.723 $\pm$ 16.330 χ^2 /NDF: 17.5/18

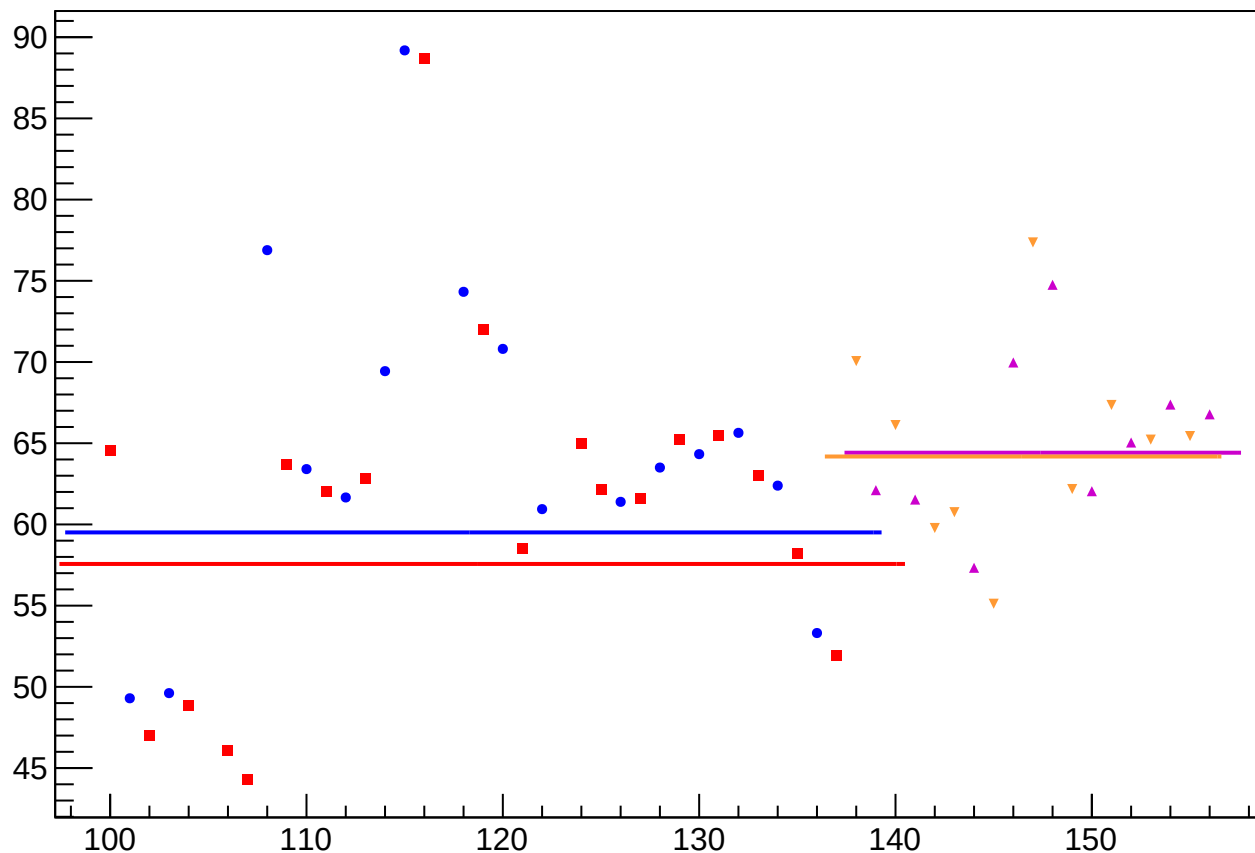
Right: 60.540 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 34.873 $\pm$ 16.143 χ^2 /NDF:20.1/24

Out: 38.644 $\pm$ 15.747 χ^2 /NDF:42.7/28

All: 36.805 $\pm$ 11.272 χ^2 /NDF: 62.9/53

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: 64.182 $\pm$ 0.016 χ^2 /NDF: 120562.4/9

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347374.2/18

Left In: 64.416 $\pm$ 0.016 χ^2 /NDF: 84599.6/8

Left: 64.298 $\pm$ 0.012 χ^2 /NDF: 205264.3/18

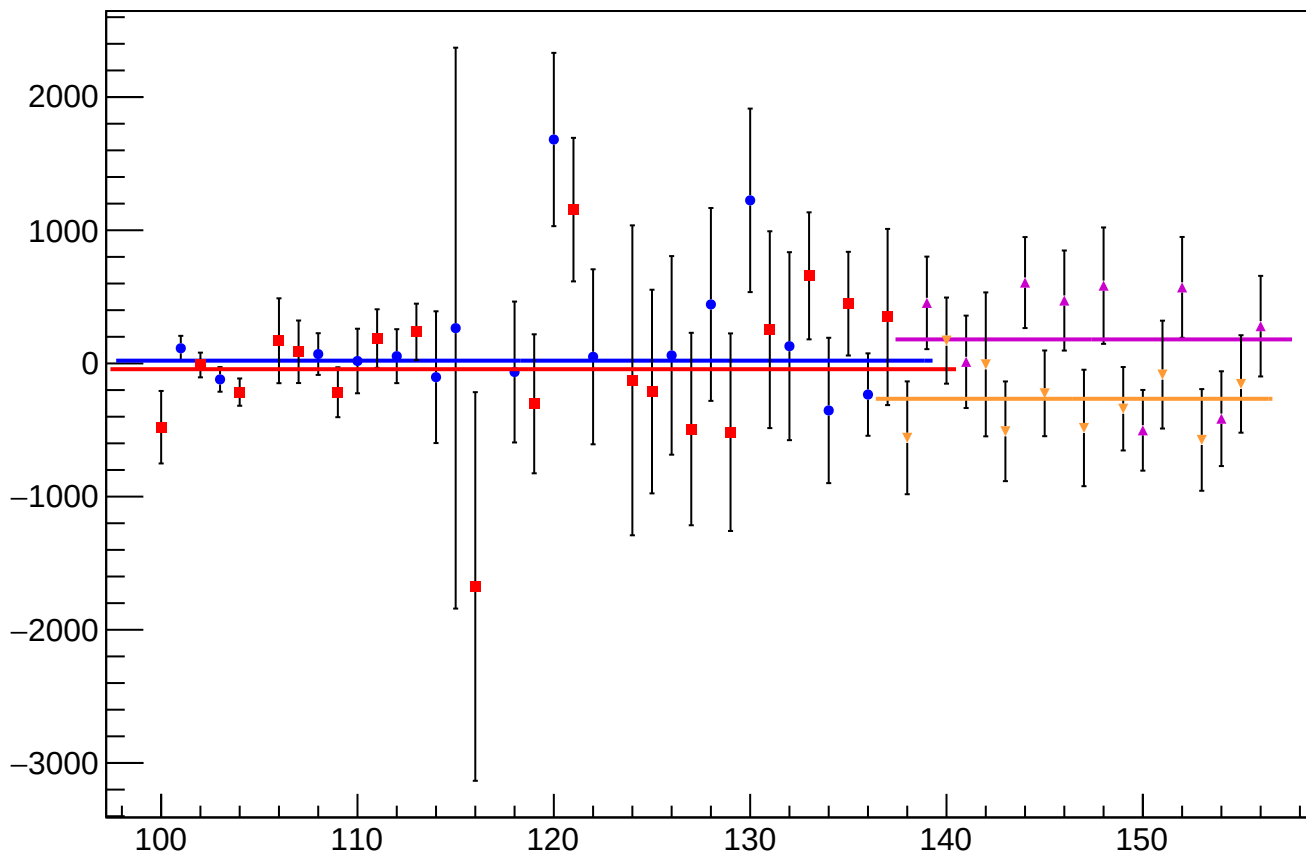
Right: 58.496 $\pm$ 0.011 χ^2 /NDF: 638320.1/34

In: 61.893 $\pm$ 0.011 χ^2 /NDF: 413957.9/24

Out: 60.659 $\pm$ 0.011 χ^2 /NDF: 555813.0/28

All: 61.261 $\pm$ 0.008 χ^2 /NDF: 975762.4/53

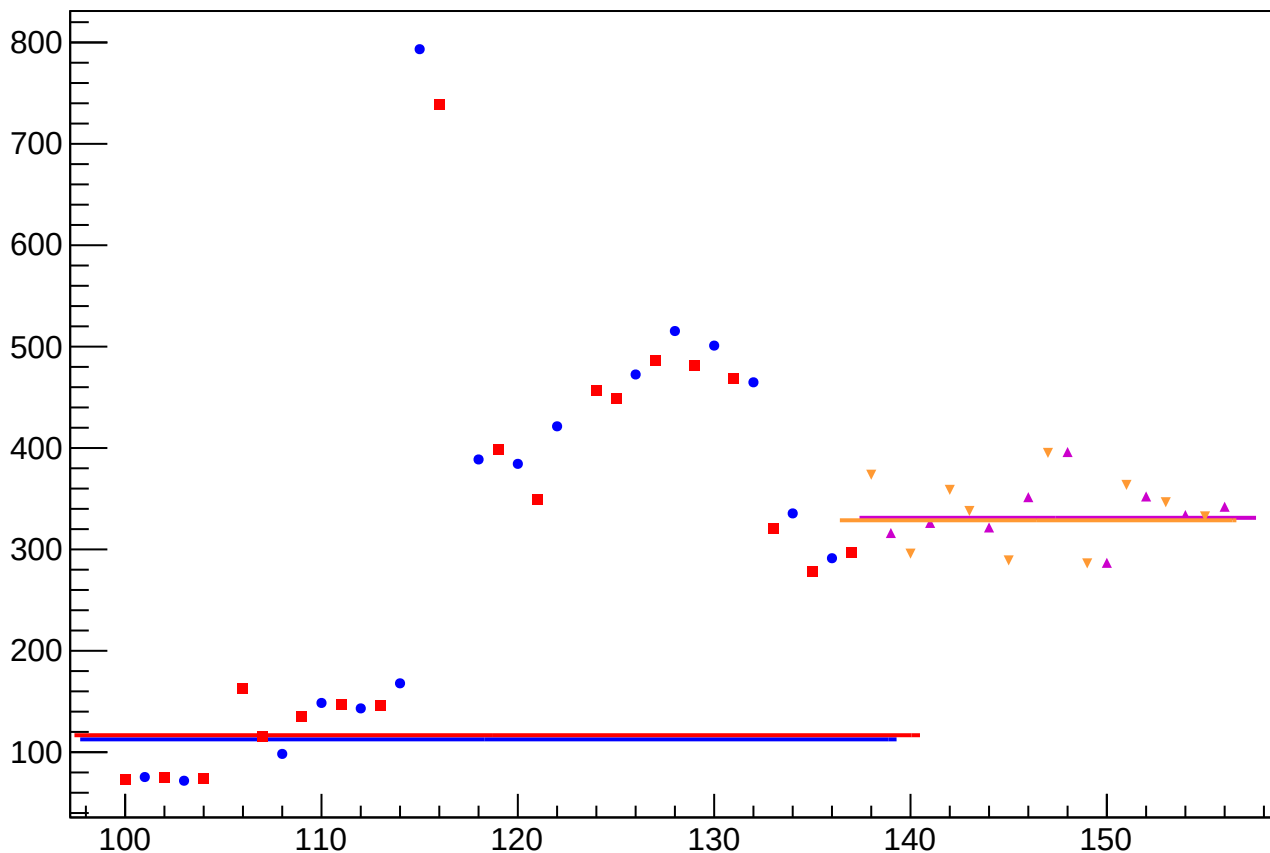
asym_sam_15_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840+/-53.585 χ^2/NDF : 14.6/15
 Left Out: -265.512+/-118.512 χ^2/NDF : 4.2/9
 Right Out: -43.262+/-53.210 χ^2/NDF : 21.5/18
 Left In: 180.441+/-119.315 χ^2/NDF : 12.9/8

Left: -44.041+/-84.083 χ^2/NDF : 24.1/18
 Right: -11.436+/-37.757 χ^2/NDF : 36.9/34
 In: 47.628+/-48.882 χ^2/NDF : 29.0/24
 Out: -80.548+/-48.542 χ^2/NDF : 28.7/28
 All: -16.907+/-34.444 χ^2/NDF : 61.1/53

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: 328.719 $\pm$ 0.084 χ^2 /NDF: 183256.0/9

Right Out: 116.732 $\pm$ 0.038 χ^2 /NDF: 5141390.3/18

Left In: 331.155 $\pm$ 0.084 χ^2 /NDF: 106499.4/8

Left: 329.929 $\pm$ 0.059 χ^2 /NDF: 290175.2/18

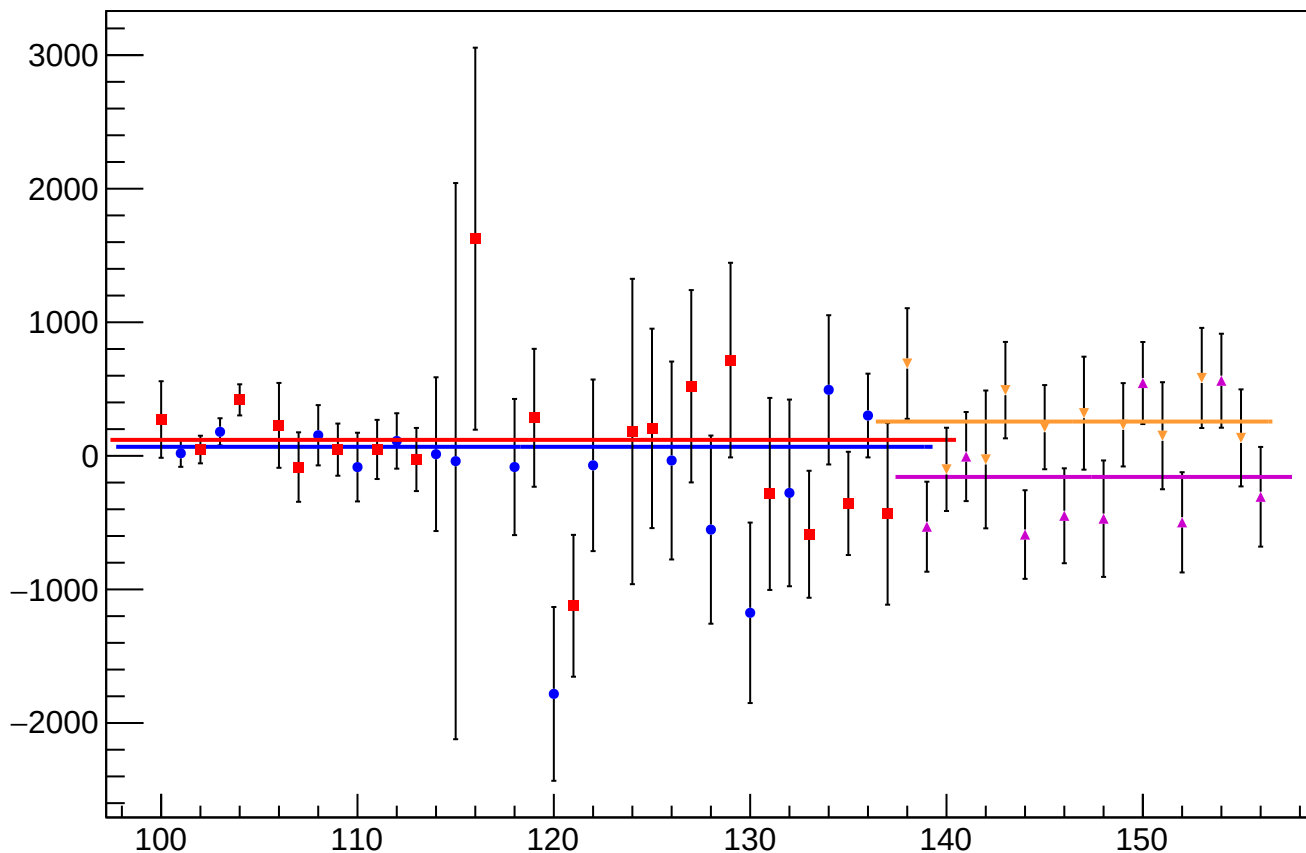
Right: 114.714 $\pm$ 0.027 χ^2 /NDF: 10746837.6/34

In: 149.339 $\pm$ 0.035 χ^2 /NDF: 11286971.6/24

Out: 152.297 $\pm$ 0.034 χ^2 /NDF: 10650196.6/28

All: 150.828 $\pm$ 0.024 χ^2 /NDF: 21940853.8/53

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 67.621 $\pm$ 59.169 χ^2 /NDF: 15.8/15

Left Out: 256.798 $\pm$ 115.919 χ^2 /NDF:4.1/9

Right Out: 119.635 $\pm$ 57.941 χ^2 /NDF: 21.1/18

Left In: -157.780 $\pm$ 117.019 χ^2 /NDF:14.7/8

Left: 51.466 $\pm$ 82.353 χ^2 /NDF: 25.2/18

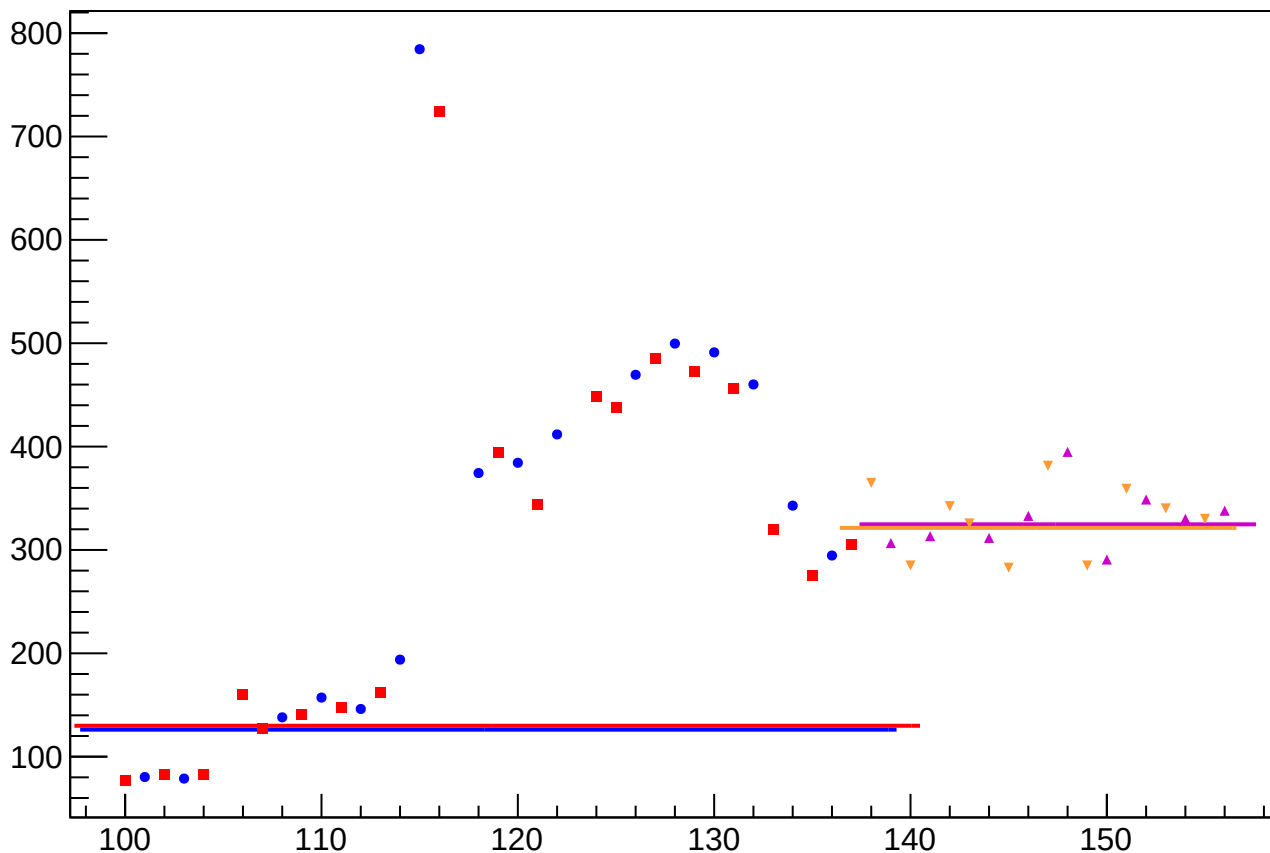
Right: 94.173 $\pm$ 41.398 χ^2 /NDF: 37.3/34

In: 21.727 $\pm$ 52.803 χ^2 /NDF:33.4/24

Out: 147.054 $\pm$ 51.828 χ^2 /NDF:26.4/28

All: 85.558 $\pm$ 36.988 χ^2 /NDF: 62.7/53

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 126.154+/-0.042 χ^2/NDF : 5220128.2/15

Left Out: 321.357+/-0.082 χ^2/NDF : 174531.2/9

Right Out: 129.914+/-0.041 χ^2/NDF : 4647677.8/18

Left In: 324.794+/-0.083 χ^2/NDF : 99779.3/8

Left: 323.059+/-0.058 χ^2/NDF : 275181.3/18

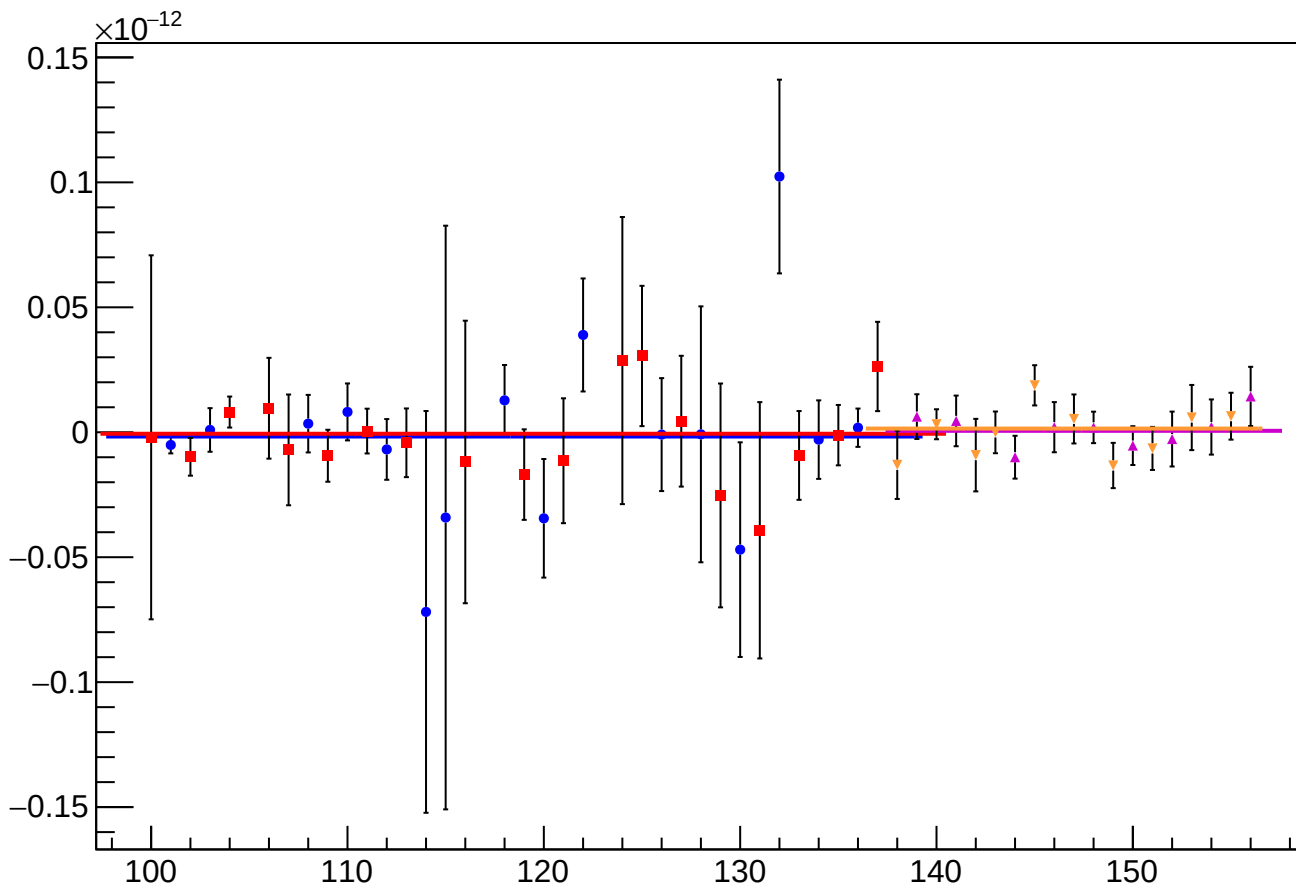
Right: 128.074+/-0.029 χ^2/NDF : 9871930.1/34

In: 166.599+/-0.037 χ^2/NDF : 9909486.6/24

Out: 168.183+/-0.037 χ^2/NDF : 9186750.9/28

All: 167.406+/-0.026 χ^2/NDF : 19097154.8/53

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 : 10.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 10.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.2/8

Left: 0.000+/-0.000 χ^2/NDF : 14.7/18

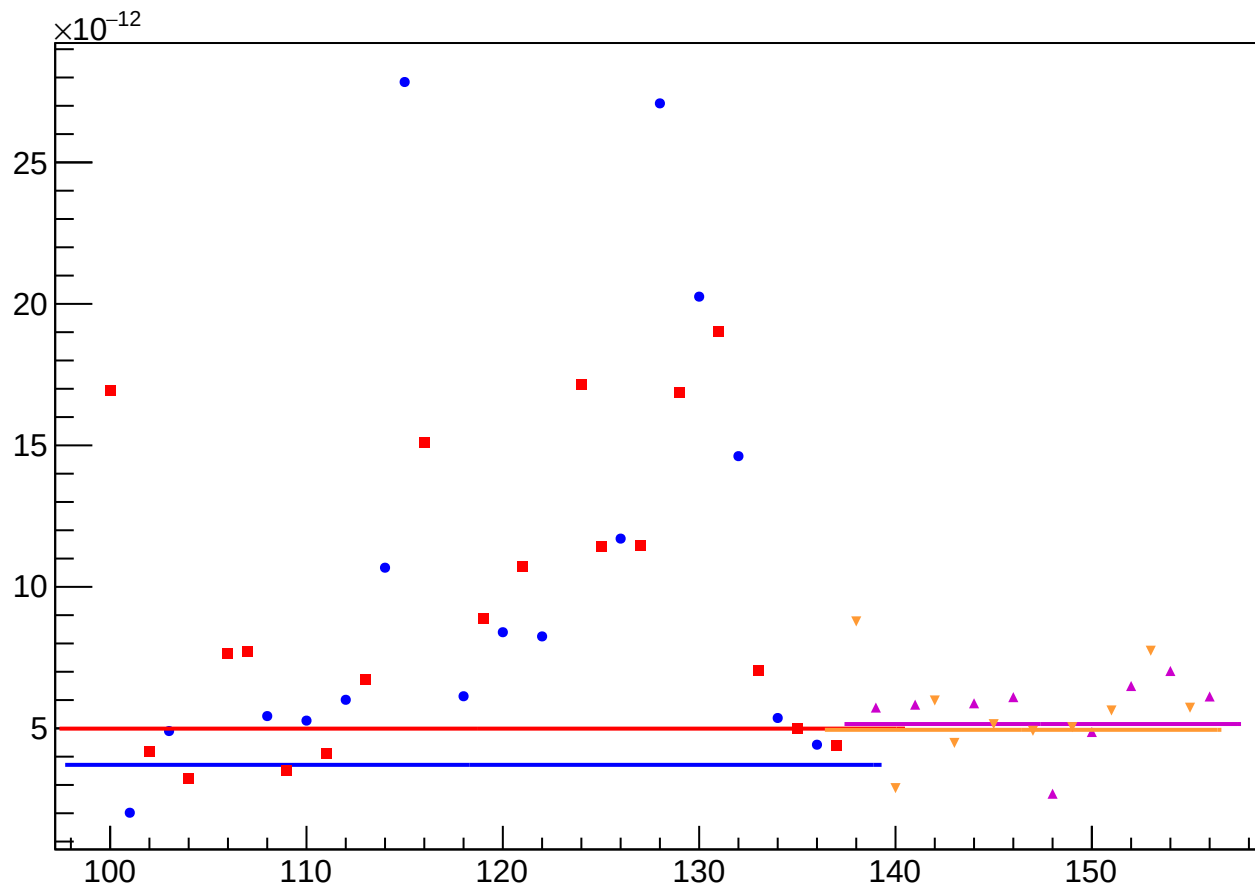
Right: -0.000+/-0.000 χ^2/NDF : 28.4/34

In: -0.000+/-0.000 χ^2/NDF : 22.3/24

Out: 0.000+/-0.000 χ^2/NDF : 21.2/28

All: -0.000+/-0.000 χ^2/NDF : 43.7/53

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 : 529589.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1295374.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 459861.7/8

Left: 0.000+/-0.000 χ^2/NDF : 994312.6/18

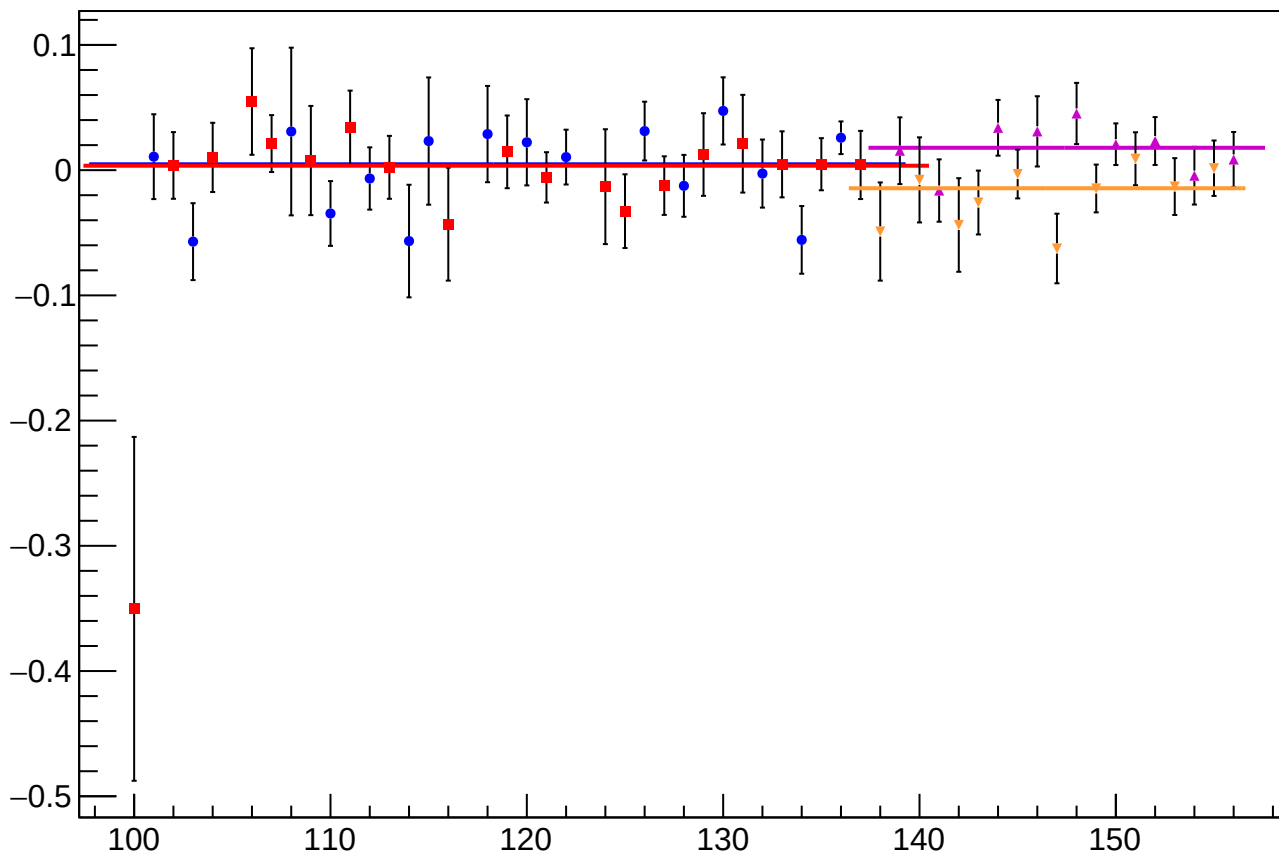
Right: 0.000+/-0.000 χ^2/NDF : 3664320.8/34

In: 0.000+/-0.000 χ^2/NDF : 2902816.5/24

Out: 0.000+/-0.000 χ^2/NDF : 1825157.5/28

All: 0.000+/-0.000 χ^2/NDF : 4831736.0/53

asym_sam_15_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.007 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -0.014 ± 0.008 $\chi^2/\text{NDF}: 6.7/9$

Right Out: 0.004 ± 0.007 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.018 ± 0.007 $\chi^2/\text{NDF}: 5.1/8$

Left: 0.002 ± 0.005 $\chi^2/\text{NDF}: 21.0/18$

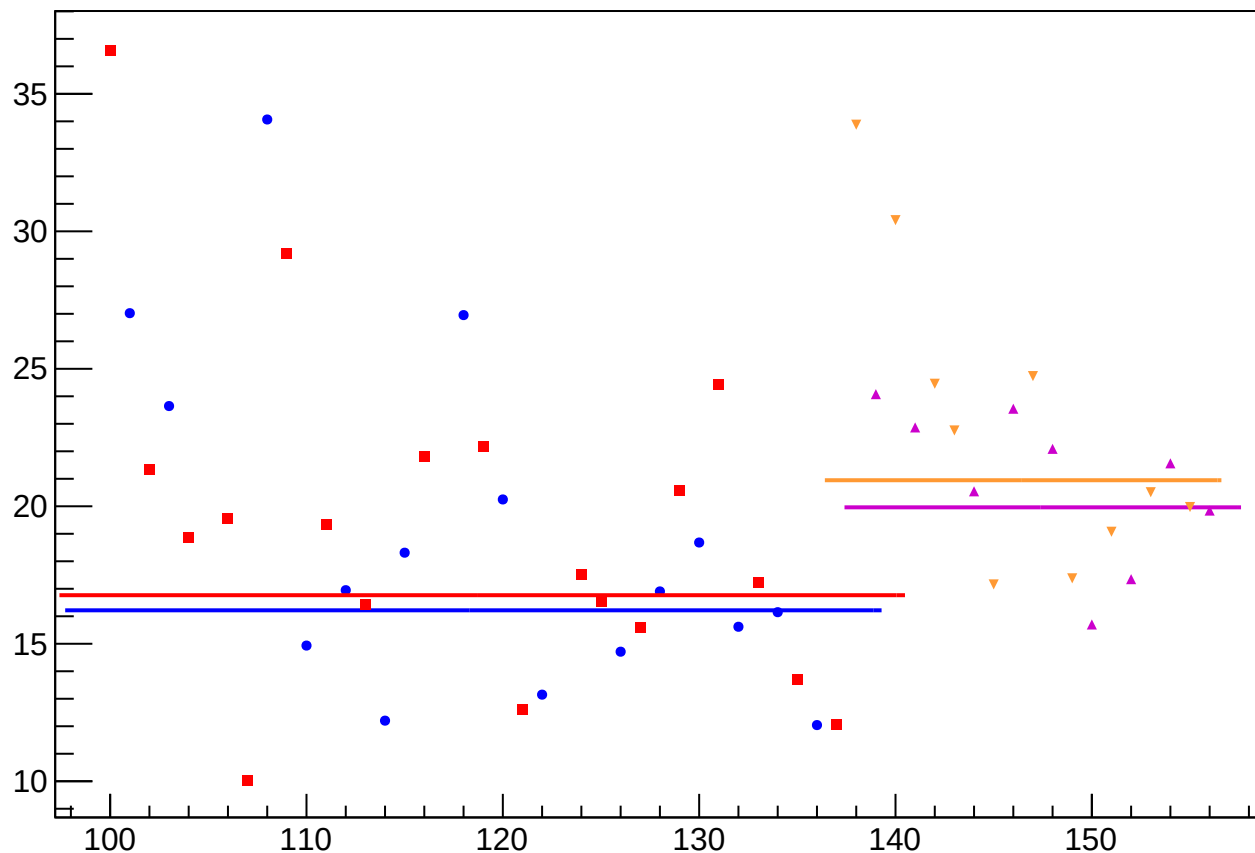
Right: 0.004 ± 0.005 $\chi^2/\text{NDF}: 35.1/34$

In: 0.010 ± 0.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 23.5/28$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 56.1/53$

asym_sam_15_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217 $\pm$ 0.005 χ^2/NDF : 943864.9/15

Left Out: 20.947 $\pm$ 0.005 χ^2/NDF : 603261.0/9

Right Out: 16.766 $\pm$ 0.005 χ^2/NDF : 866715.7/18

Left In: 19.962 $\pm$ 0.005 χ^2/NDF : 302383.7/8

Left: 20.432 $\pm$ 0.004 χ^2/NDF : 922588.2/18

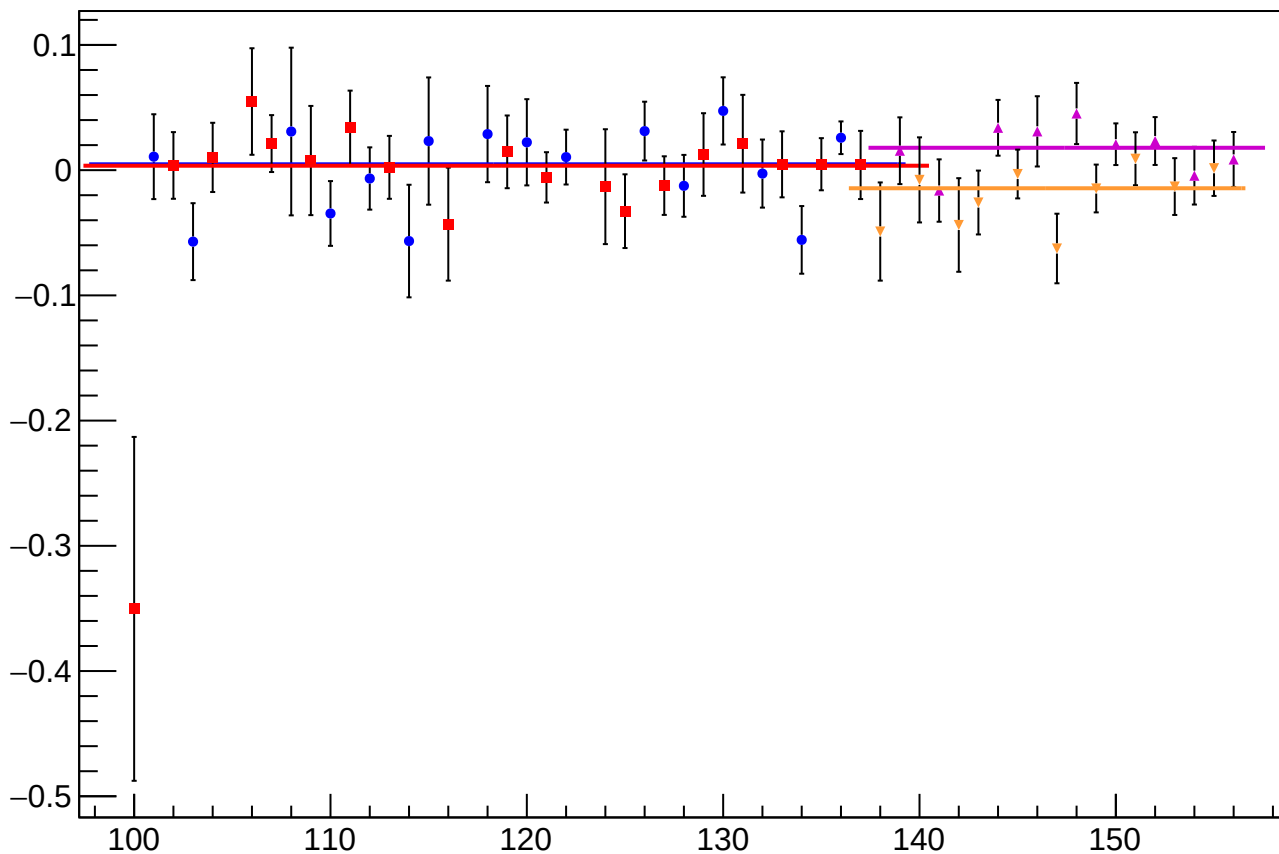
Right: 16.489 $\pm$ 0.003 χ^2/NDF : 1817524.0/34

In: 17.868 $\pm$ 0.003 χ^2/NDF : 1533186.6/24

Out: 18.533 $\pm$ 0.004 χ^2/NDF : 1806483.2/28

All: 18.192 $\pm$ 0.002 χ^2/NDF : 3357581.7/53

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.007 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -0.014 ± 0.008 $\chi^2/\text{NDF}: 6.7/9$

Right Out: 0.004 ± 0.007 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.018 ± 0.007 $\chi^2/\text{NDF}: 5.1/8$

Left: 0.002 ± 0.005 $\chi^2/\text{NDF}: 21.0/18$

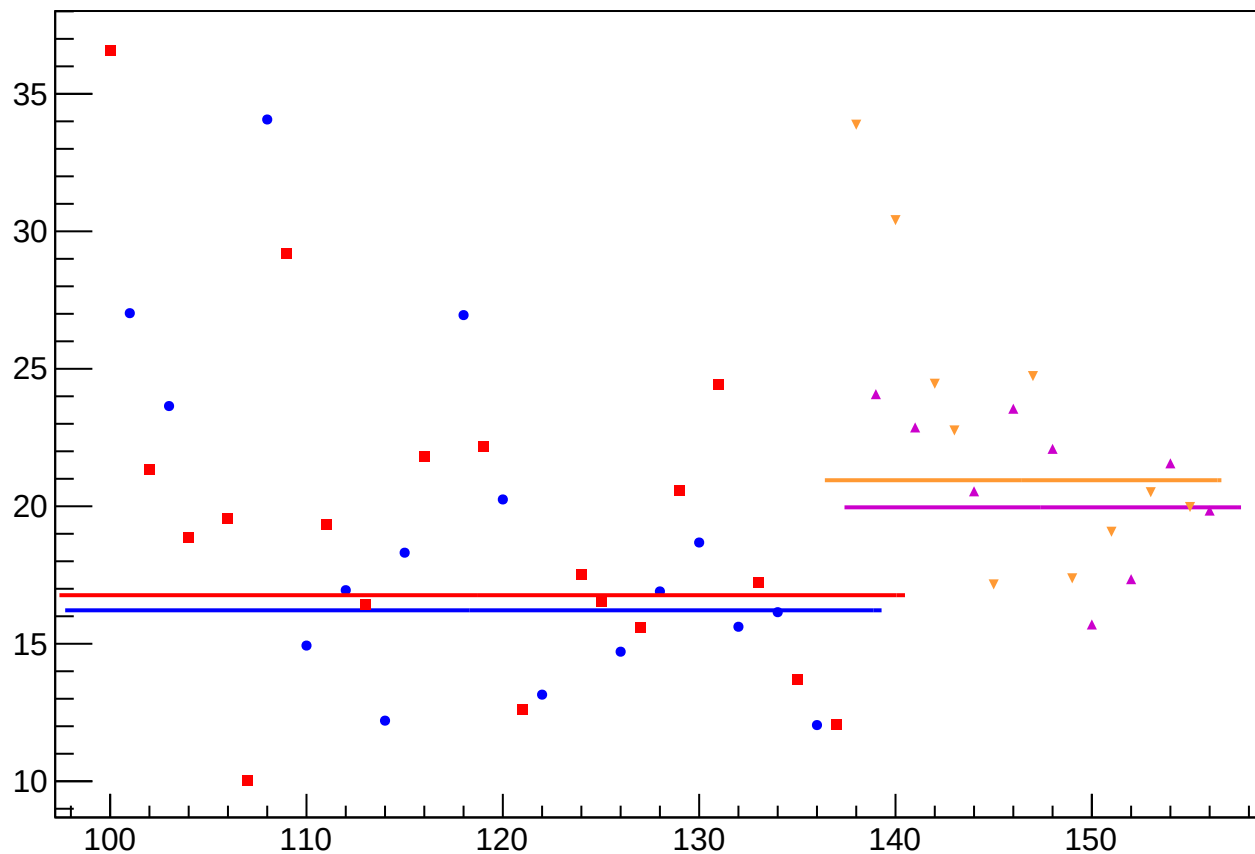
Right: 0.004 ± 0.005 $\chi^2/\text{NDF}: 35.1/34$

In: 0.010 ± 0.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 23.5/28$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 56.1/53$

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217 $\pm$ 0.005 χ^2 /NDF: 943864.9/15

Left Out: 20.947 $\pm$ 0.005 χ^2 /NDF: 603261.0/9

Right Out: 16.766 $\pm$ 0.005 χ^2 /NDF: 866715.7/18

Left In: 19.962 $\pm$ 0.005 χ^2 /NDF: 302383.7/8

Left: 20.432 $\pm$ 0.004 χ^2 /NDF: 922588.2/18

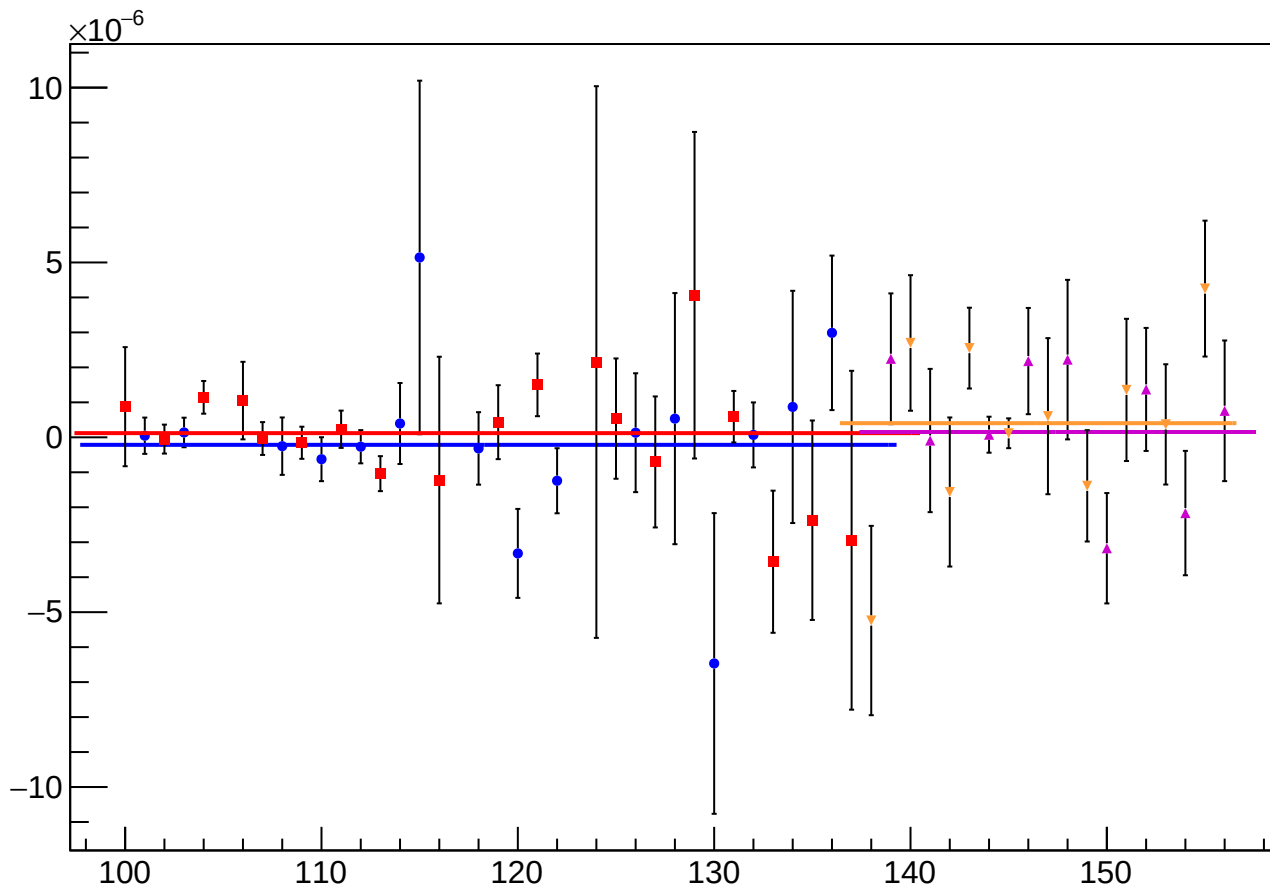
Right: 16.489 $\pm$ 0.003 χ^2 /NDF: 1817524.0/34

In: 17.868 $\pm$ 0.003 χ^2 /NDF: 1533186.6/24

Out: 18.533 $\pm$ 0.004 χ^2 /NDF: 1806483.2/28

All: 18.192 $\pm$ 0.002 χ^2 /NDF: 3357581.7/53

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 :15.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 20.2/18

Left In: 0.000+/-0.000 χ^2/NDF :10.6/8

Left: 0.000+/-0.000 χ^2/NDF : 26.8/18

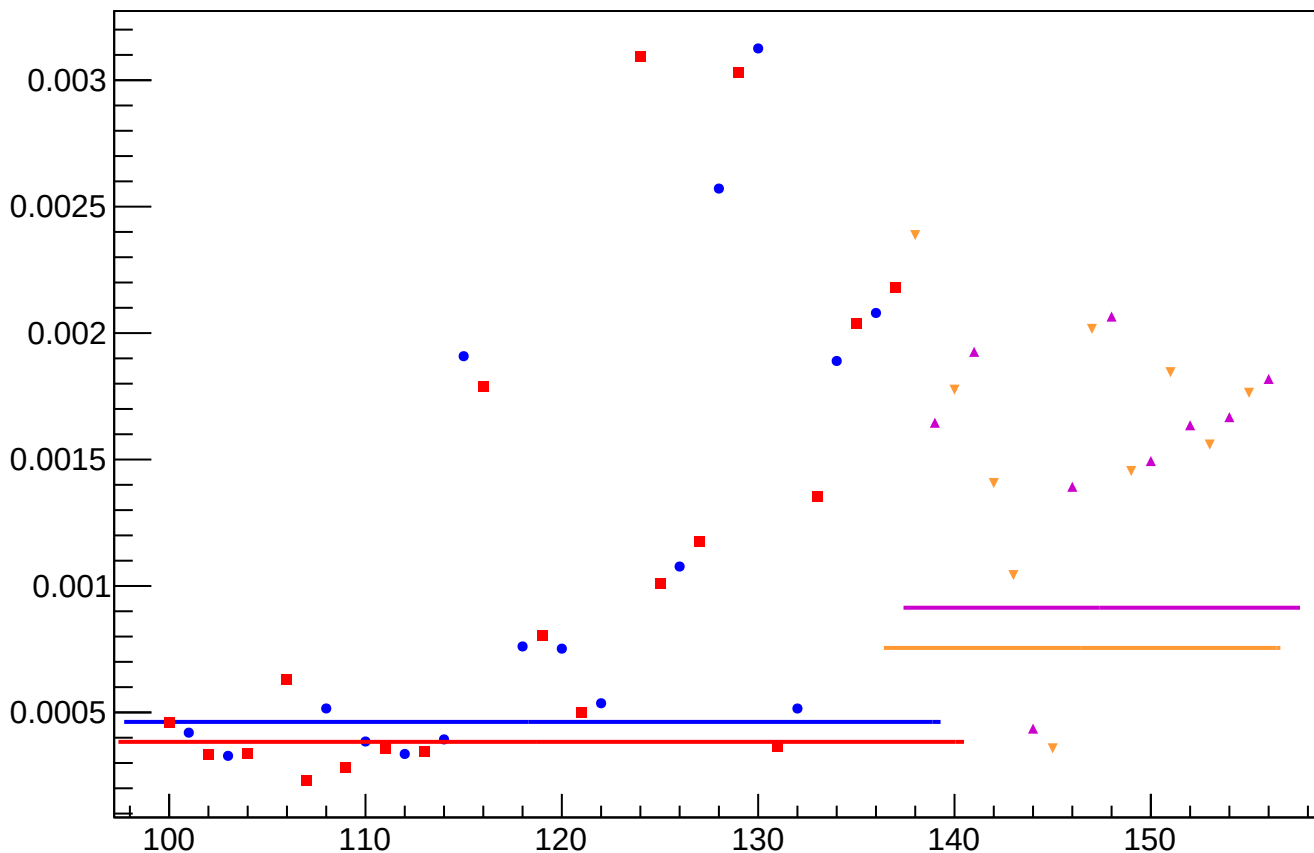
Right: -0.000+/-0.000 χ^2/NDF : 36.2/34

In: -0.000+/-0.000 χ^2/NDF :25.7/24

Out: 0.000+/-0.000 χ^2/NDF :36.7/28

All: 0.000+/-0.000 χ^2/NDF : 64.1/53

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: 0.001+/-0.000 χ^2/NDF :5906404.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4058129.5/18

Left In: 0.001+/-0.000 χ^2/NDF :4600507.7/8

Left: 0.001+/-0.000 χ^2/NDF : 10686668.4/18

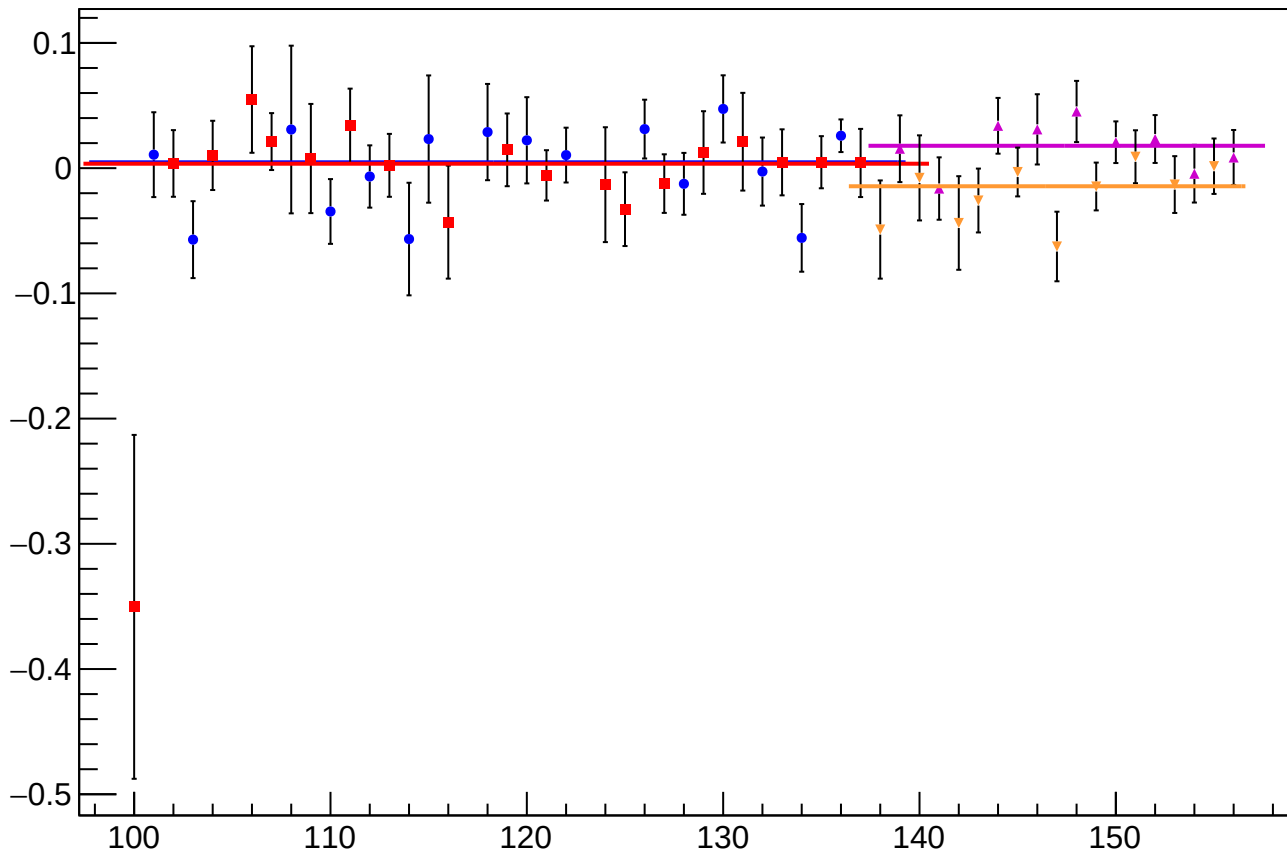
Right: 0.000+/-0.000 χ^2/NDF : 8244700.4/34

In: 0.001+/-0.000 χ^2/NDF :10615694.0/24

Out: 0.000+/-0.000 χ^2/NDF :11803278.0/28

All: 0.000+/-0.000 χ^2/NDF : 22768133.2/53

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.007 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -0.014 ± 0.008 $\chi^2/\text{NDF}: 6.7/9$

Right Out: 0.004 ± 0.007 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.018 ± 0.007 $\chi^2/\text{NDF}: 5.1/8$

Left: 0.002 ± 0.005 $\chi^2/\text{NDF}: 21.0/18$

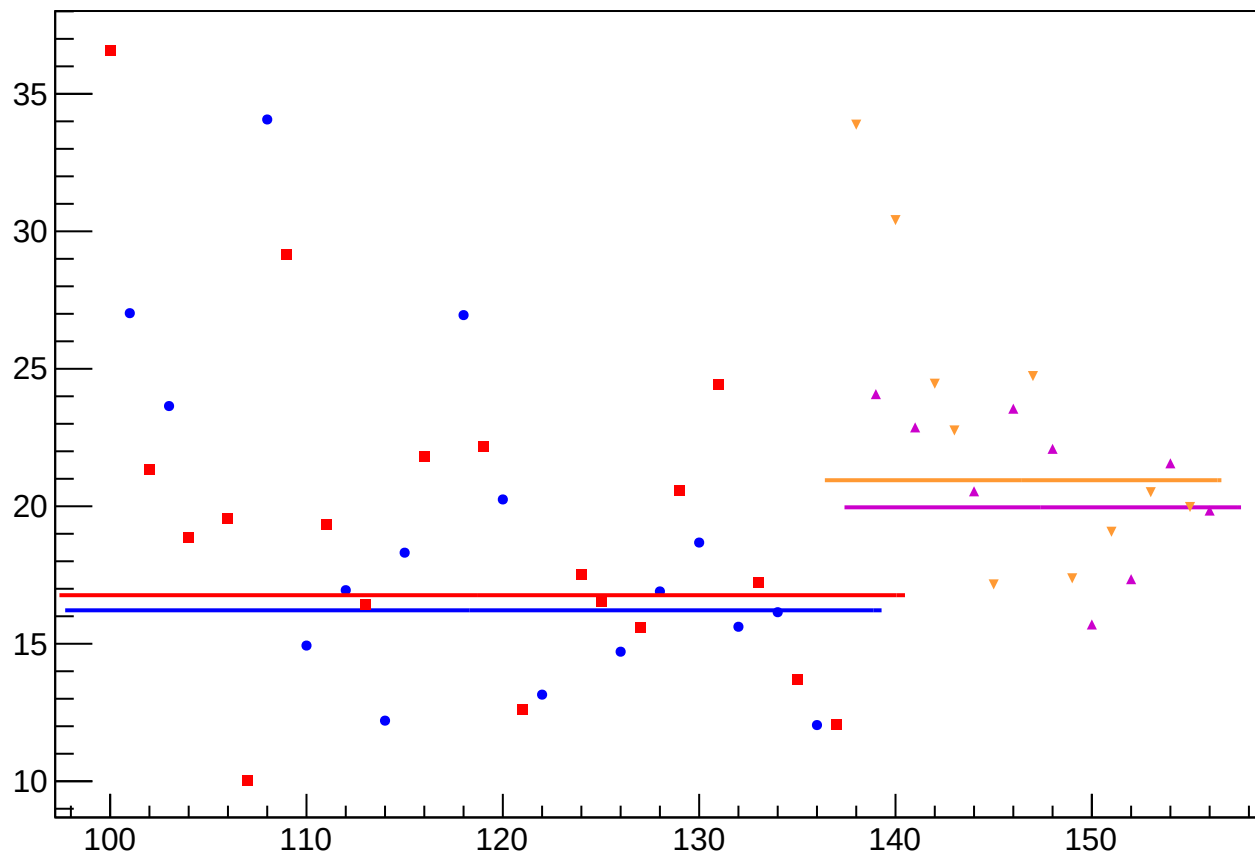
Right: 0.004 ± 0.005 $\chi^2/\text{NDF}: 35.1/34$

In: 0.010 ± 0.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 23.5/28$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 56.1/53$

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.216 $\pm$ 0.005 χ^2 /NDF: 943830.6/15

Left Out: 20.948 $\pm$ 0.005 χ^2 /NDF: 603303.1/9

Right Out: 16.766 $\pm$ 0.005 χ^2 /NDF: 866705.3/18

Left In: 19.962 $\pm$ 0.005 χ^2 /NDF: 302466.9/8

Left: 20.432 $\pm$ 0.004 χ^2 /NDF: 922715.7/18

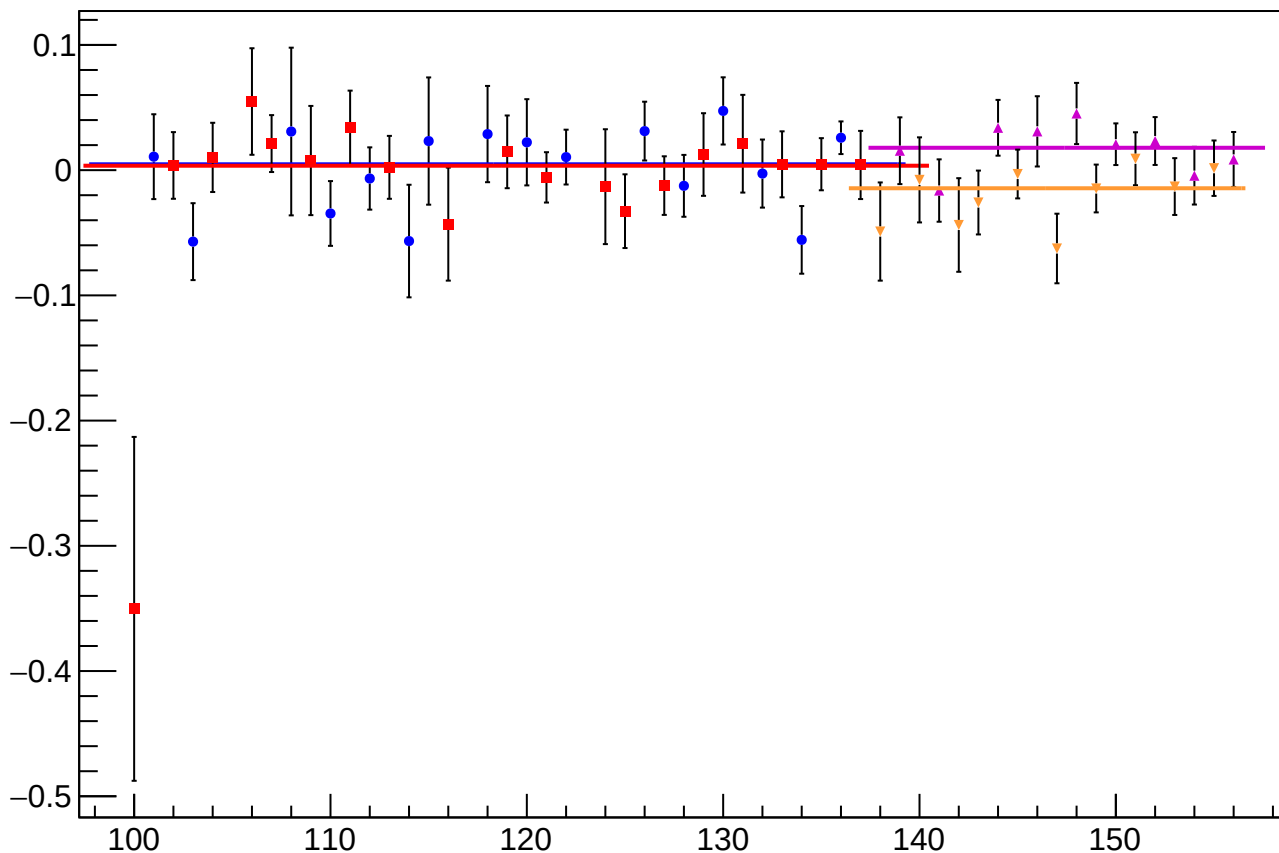
Right: 16.489 $\pm$ 0.003 χ^2 /NDF: 1817478.6/34

In: 17.868 $\pm$ 0.003 χ^2 /NDF: 1533285.6/24

Out: 18.533 $\pm$ 0.004 χ^2 /NDF: 1806584.7/28

All: 18.192 $\pm$ 0.002 χ^2 /NDF: 3357782.0/53

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.007 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -0.014 ± 0.008 $\chi^2/\text{NDF}: 6.7/9$

Right Out: 0.004 ± 0.007 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.018 ± 0.007 $\chi^2/\text{NDF}: 5.1/8$

Left: 0.002 ± 0.005 $\chi^2/\text{NDF}: 21.0/18$

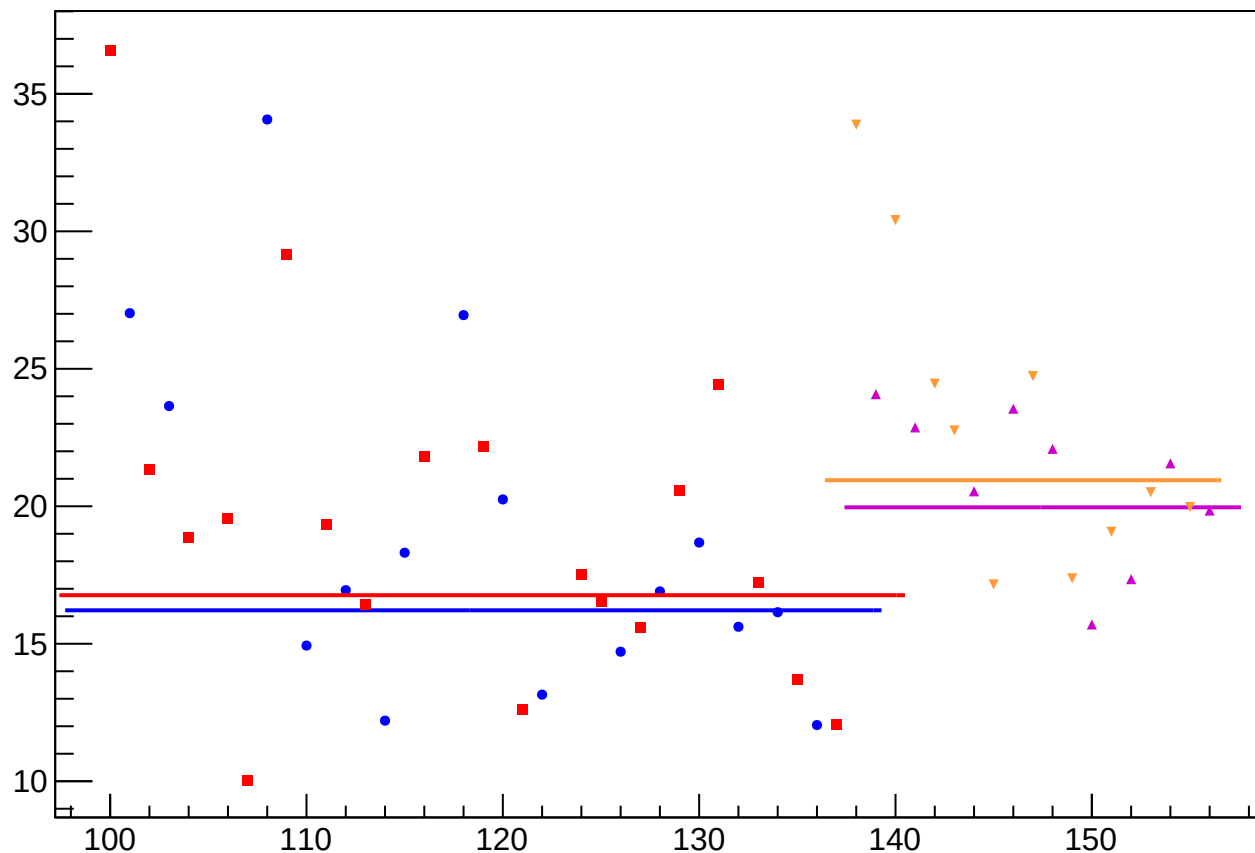
Right: 0.004 ± 0.005 $\chi^2/\text{NDF}: 35.1/34$

In: 0.010 ± 0.005 $\chi^2/\text{NDF}: 28.3/24$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 23.5/28$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 56.1/53$

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: 20.948+/-0.005 χ^2/NDF : 603303.1/9

Right Out: 16.766+/-0.005 χ^2/NDF : 866705.3/18

Left In: 19.962+/-0.005 χ^2/NDF : 302466.9/8

Left: 20.432+/-0.004 χ^2/NDF : 922715.7/18

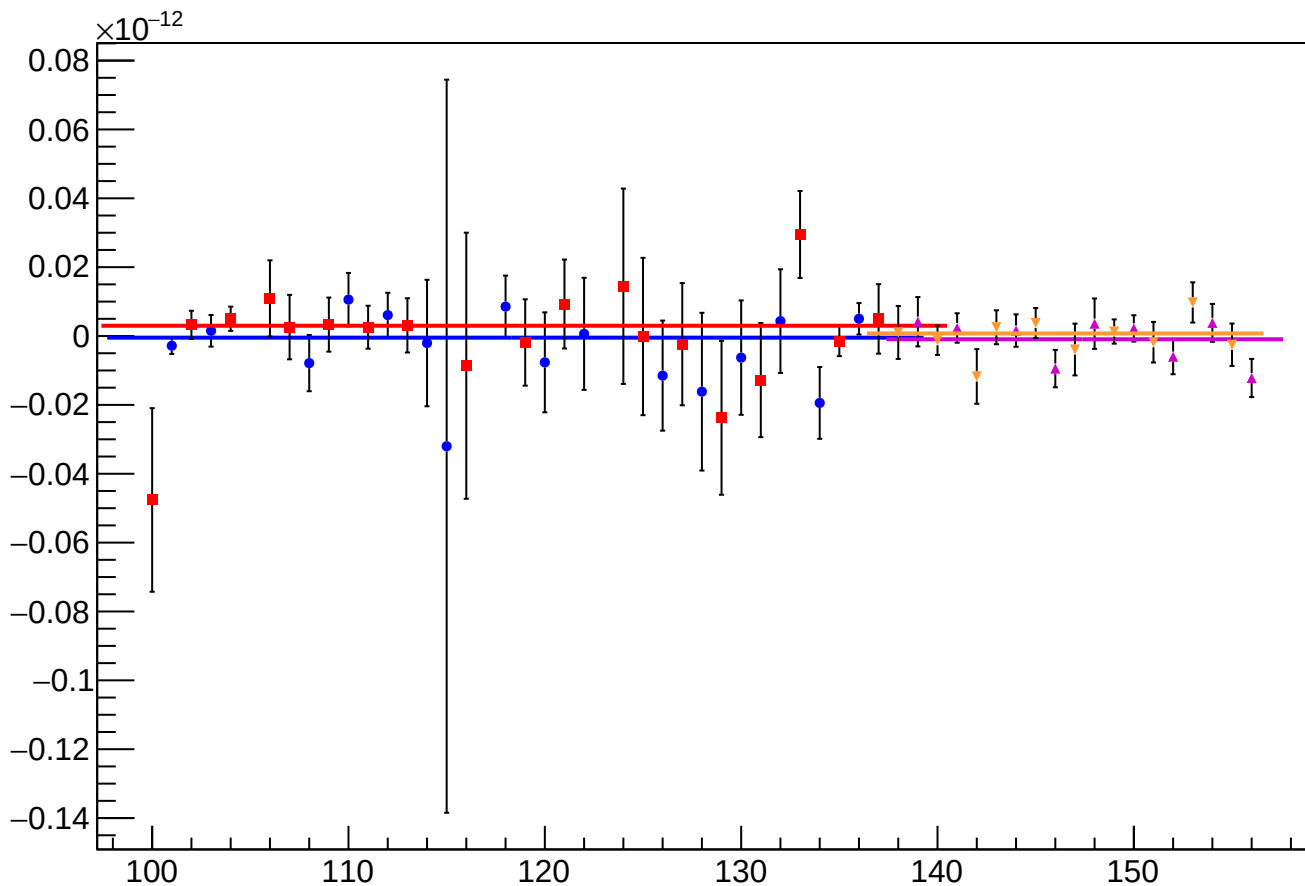
Right: 16.489+/-0.003 χ^2/NDF : 1817478.6/34

In: 17.868+/-0.003 χ^2/NDF : 1533285.6/24

Out: 18.533+/-0.004 χ^2/NDF : 1806584.7/28

All: 18.192+/-0.002 χ^2/NDF : 3357782.0/53

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.3/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:6.6/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 13.0/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:10.7/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.8/18

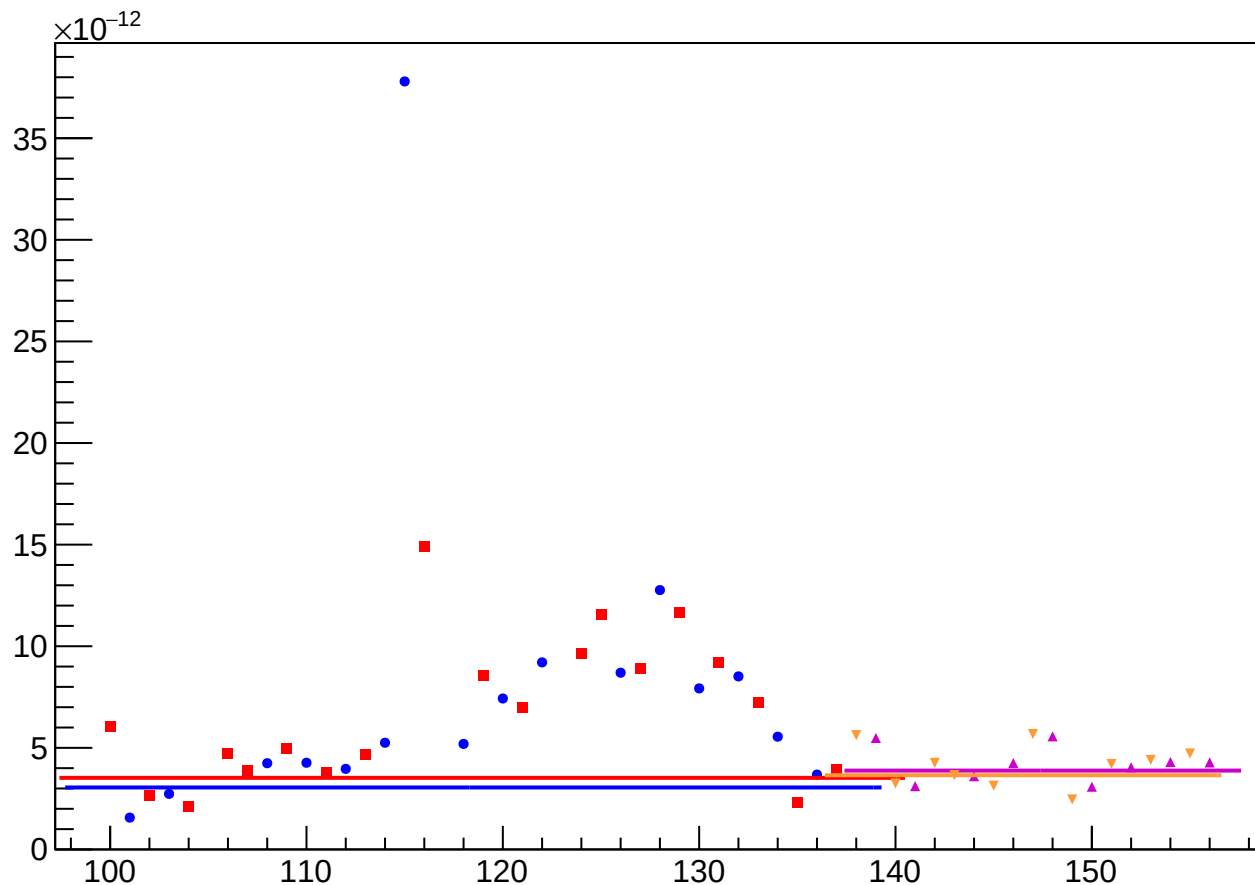
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 27.4/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:23.1/24

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:20.4/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 45.7/53

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 : 675437.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2559080.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 396835.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1090796.5/18

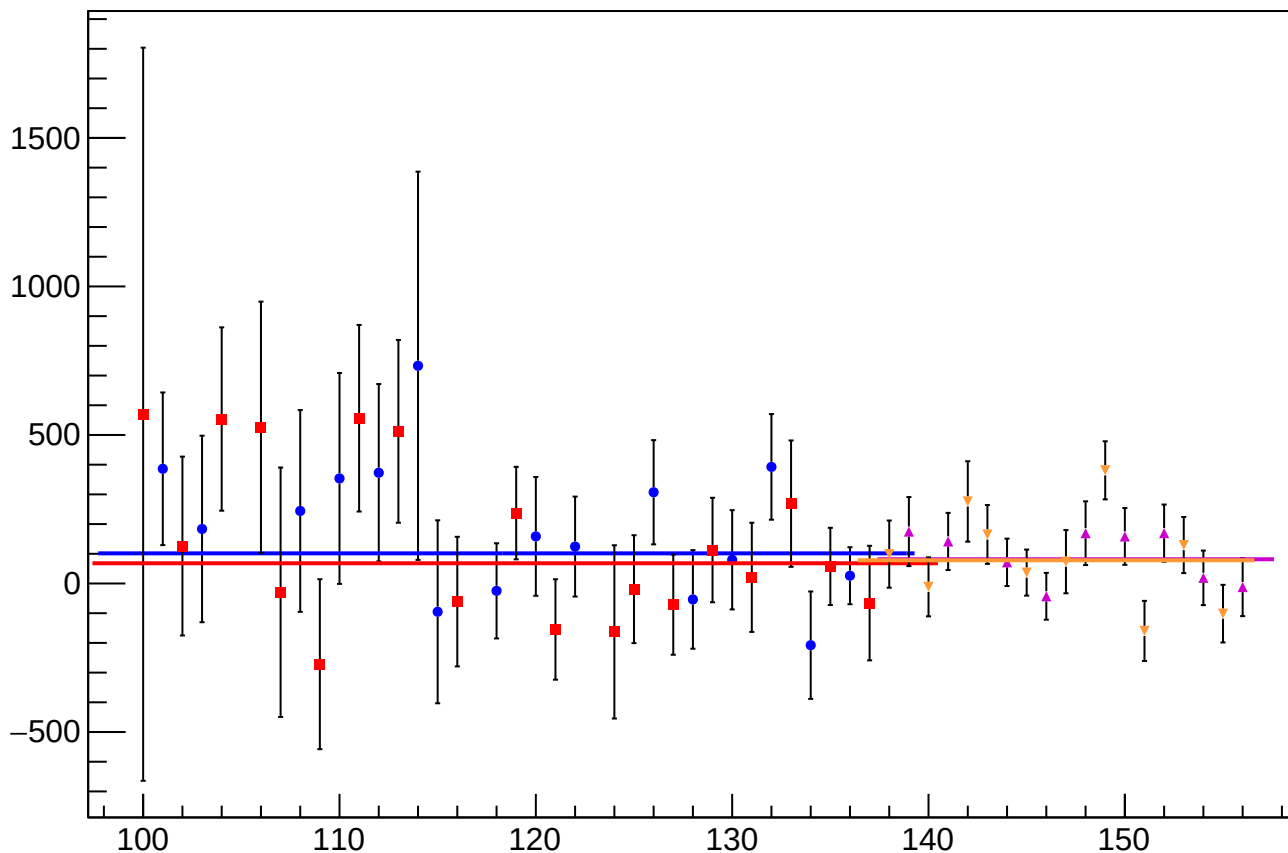
Right: 0.000+/-0.000 χ^2/NDF : 5572682.8/34

In: 0.000+/-0.000 χ^2/NDF : 3581432.8/24

Out: 0.000+/-0.000 χ^2/NDF : 3240080.9/28

All: 0.000+/-0.000 χ^2/NDF : 6836035.7/53

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: 78.147 $\pm$ 31.442 χ^2 /NDF:22.9/9

Right Out: 68.108 $\pm$ 49.327 χ^2 /NDF: 16.1/18

Left In: 81.574 $\pm$ 31.187 χ^2 /NDF:7.1/8

Left: 79.875 $\pm$ 22.142 χ^2 /NDF: 30.0/18

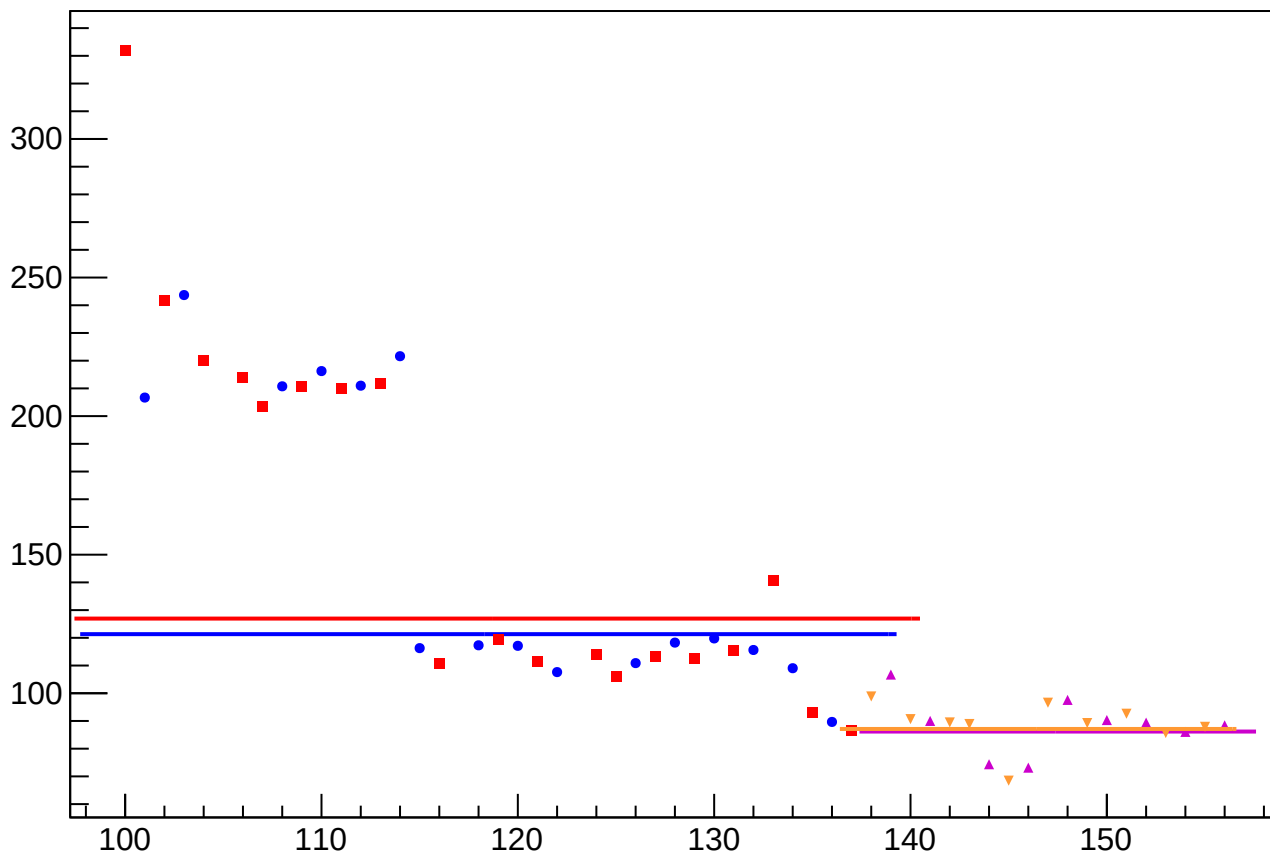
Right: 85.367 $\pm$ 34.264 χ^2 /NDF: 29.7/34

In: 87.541 $\pm$ 26.092 χ^2 /NDF:20.6/24

Out: 75.247 $\pm$ 26.514 χ^2 /NDF:39.0/28

All: 81.493 $\pm$ 18.597 χ^2 /NDF: 59.7/53

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325+/-0.034 χ^2/NDF : 1286651.5/15

Left Out: 87.113+/-0.022 χ^2/NDF :164333.2/9

Right Out: 126.945+/-0.035 χ^2/NDF : 1471592.1/18

Left In: 86.181+/-0.022 χ^2/NDF :194029.6/8

Left: 86.643+/-0.016 χ^2/NDF : 359248.1/18

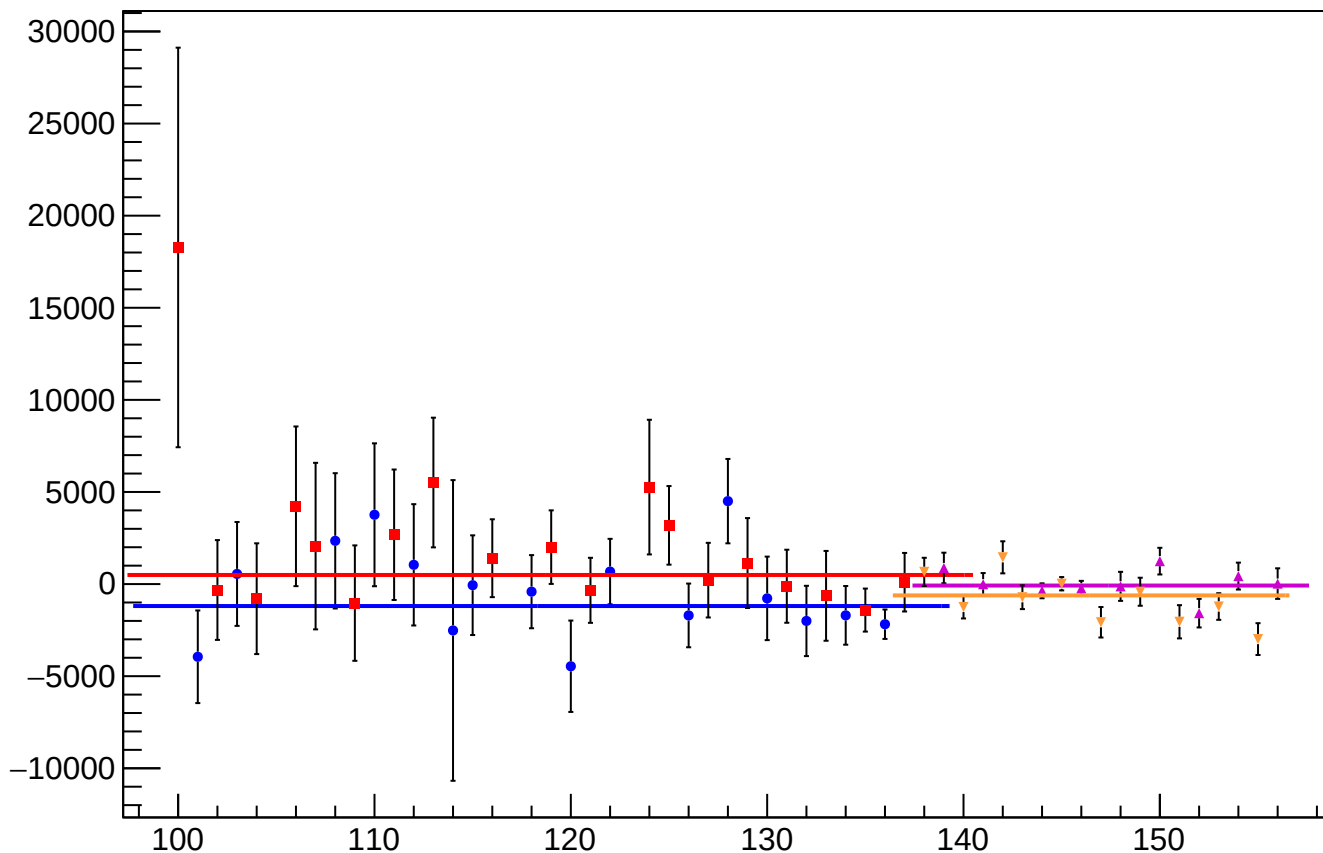
Right: 124.037+/-0.024 χ^2/NDF : 2771675.2/34

In: 96.727+/-0.018 χ^2/NDF :2242785.7/24

Out: 98.621+/-0.019 χ^2/NDF :2563264.5/28

All: 97.659+/-0.013 χ^2/NDF : 4811232.4/53

asym_sam_26_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1192.168+/-478.908 χ^2/NDF : 15.9/15

Left Out: -615.083+/-207.114 χ^2/NDF : 26.5/9

Right Out: 494.627+/-521.756 χ^2/NDF : 13.9/18

Left In: -79.476+/-200.707 χ^2/NDF : 9.6/8

Left: -338.868+/-144.133 χ^2/NDF : 39.5/18

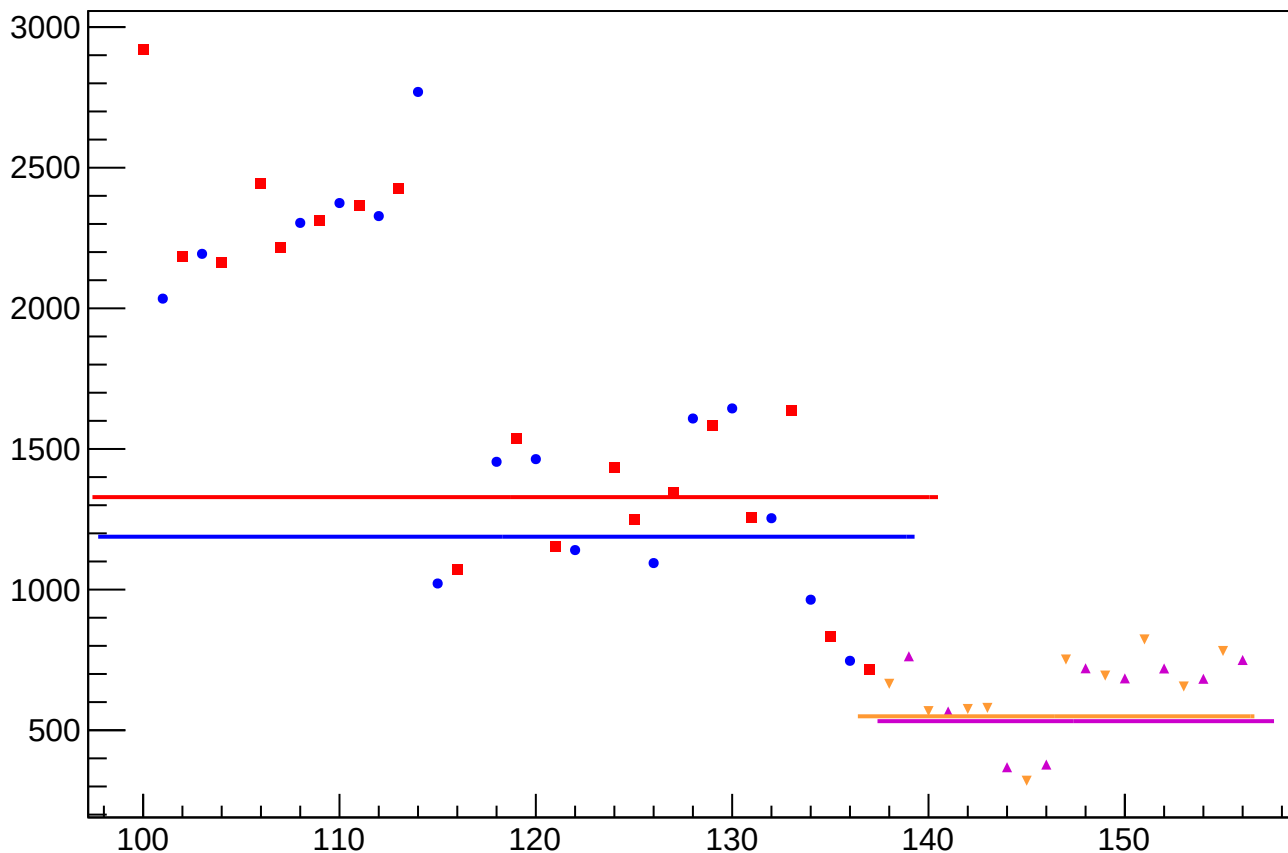
Right: -420.866+/-352.816 χ^2/NDF : 35.5/34

In: -245.712+/-185.108 χ^2/NDF : 30.1/24

Out: -464.025+/-192.502 χ^2/NDF : 44.3/28

All: -350.595+/-133.429 χ^2/NDF : 75.0/53

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: 549.521+/-0.146 χ^2/NDF : 1415973.1/9

Right Out: 1328.816+/-0.369 χ^2/NDF : 1957758.3/18

Left In: 532.245+/-0.142 χ^2/NDF : 1317105.0/8

Left: 540.612+/-0.102 χ^2/NDF : 2740254.1/18

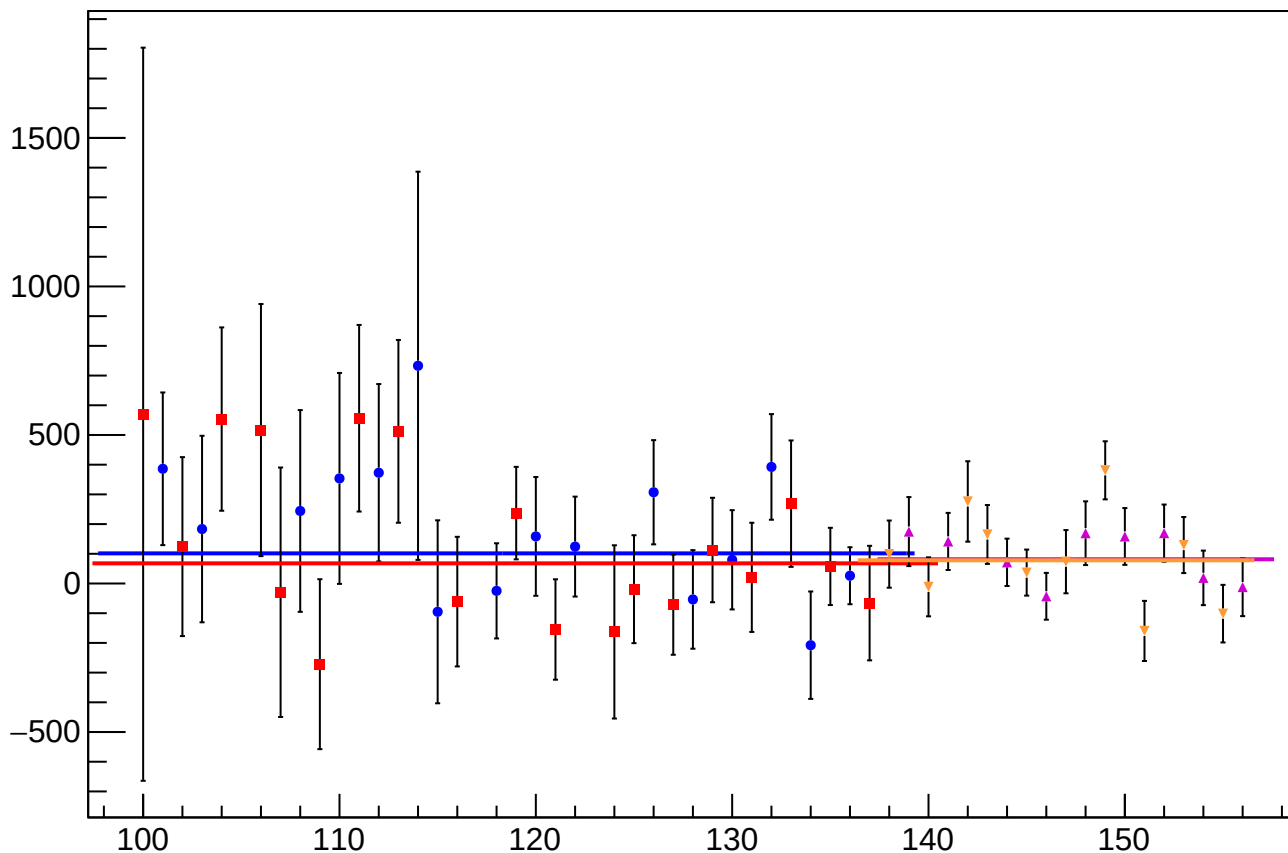
Right: 1252.427+/-0.249 χ^2/NDF : 4081382.8/34

In: 630.225+/-0.131 χ^2/NDF : 6552001.5/24

Out: 655.602+/-0.136 χ^2/NDF : 7228079.9/28

All: 642.417+/-0.094 χ^2/NDF : 13798140.1/53

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: 78.152 $\pm$ 31.442 χ^2 /NDF:22.9/9

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 81.574 $\pm$ 31.187 χ^2 /NDF:7.1/8

Left: 79.877 $\pm$ 22.142 χ^2 /NDF: 30.0/18

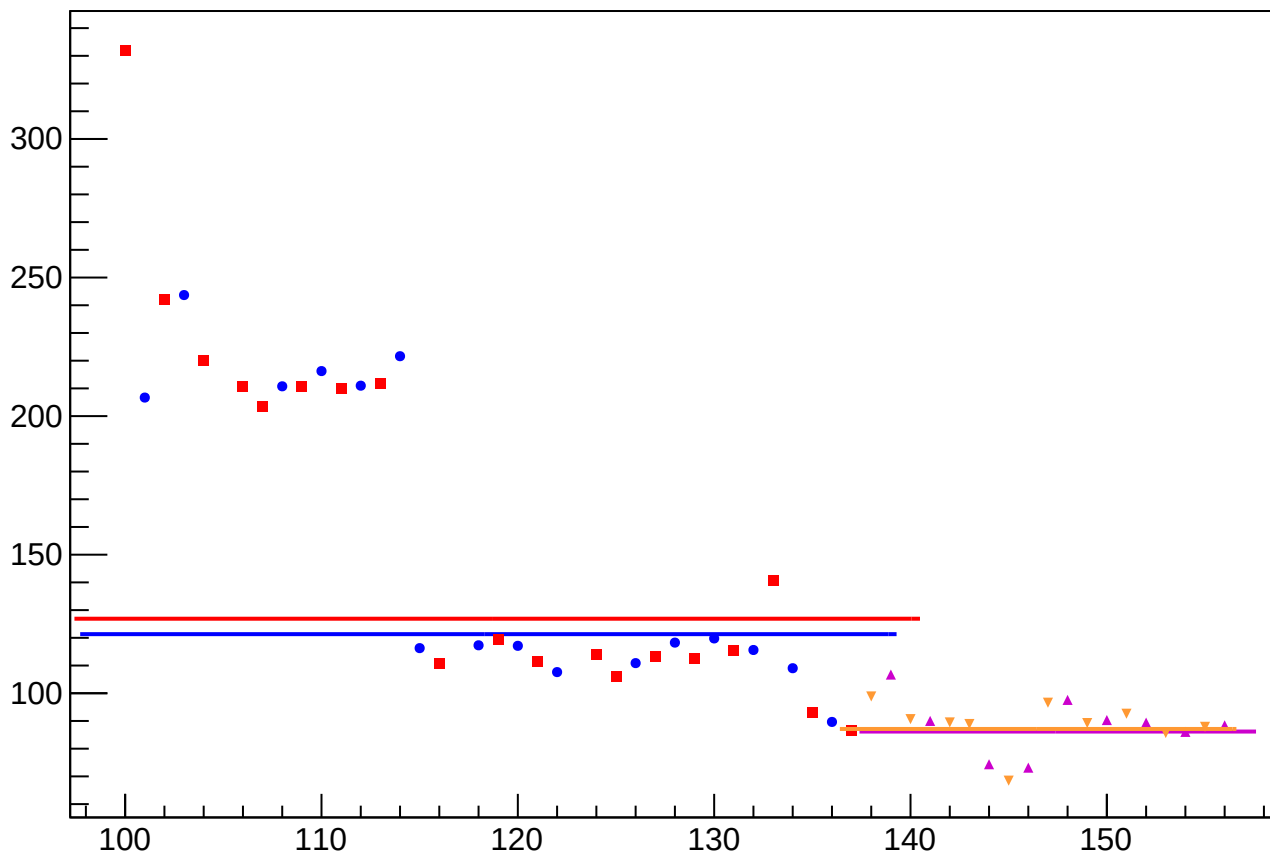
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 87.537 $\pm$ 26.092 χ^2 /NDF:20.6/24

Out: 75.185 $\pm$ 26.514 χ^2 /NDF:39.0/28

All: 81.460 $\pm$ 18.597 χ^2 /NDF: 59.7/53

cor_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325+/-0.034 χ^2/NDF : 1286654.0/15

Left Out: 87.113+/-0.022 χ^2/NDF : 164333.2/9

Right Out: 126.895+/-0.035 χ^2/NDF : 1465478.6/18

Left In: 86.181+/-0.022 χ^2/NDF : 194029.6/8

Left: 86.643+/-0.016 χ^2/NDF : 359248.1/18

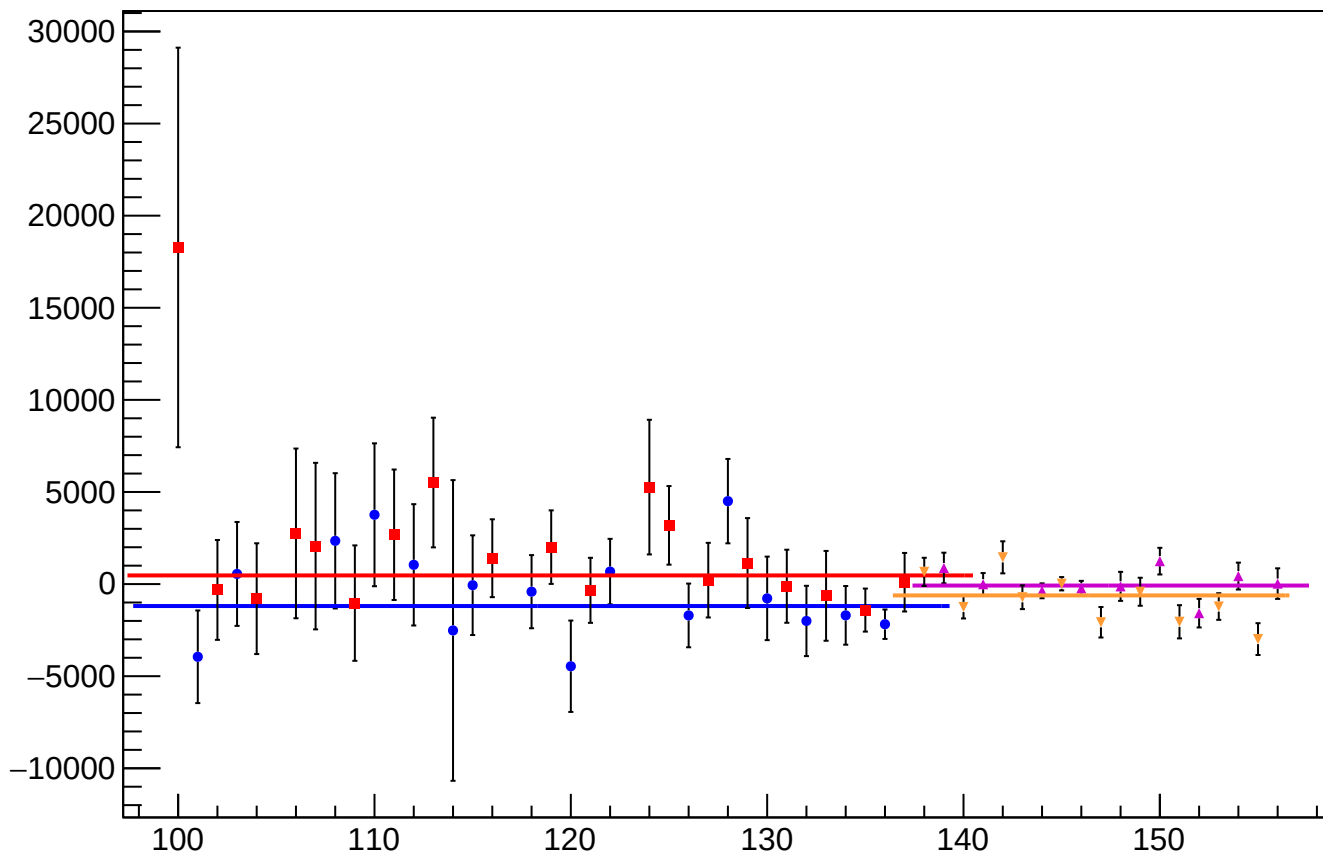
Right: 124.013+/-0.024 χ^2/NDF : 2765325.4/34

In: 96.727+/-0.018 χ^2/NDF : 2242787.9/24

Out: 98.605+/-0.019 χ^2/NDF : 2554741.6/28

All: 97.651+/-0.013 χ^2/NDF : 4802627.3/53

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: -615.075 $\pm$ 207.114 χ^2 /NDF:26.5/9

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: -79.474 $\pm$ 200.707 χ^2 /NDF:9.6/8

Left: -338.863 $\pm$ 144.133 χ^2 /NDF: 39.5/18

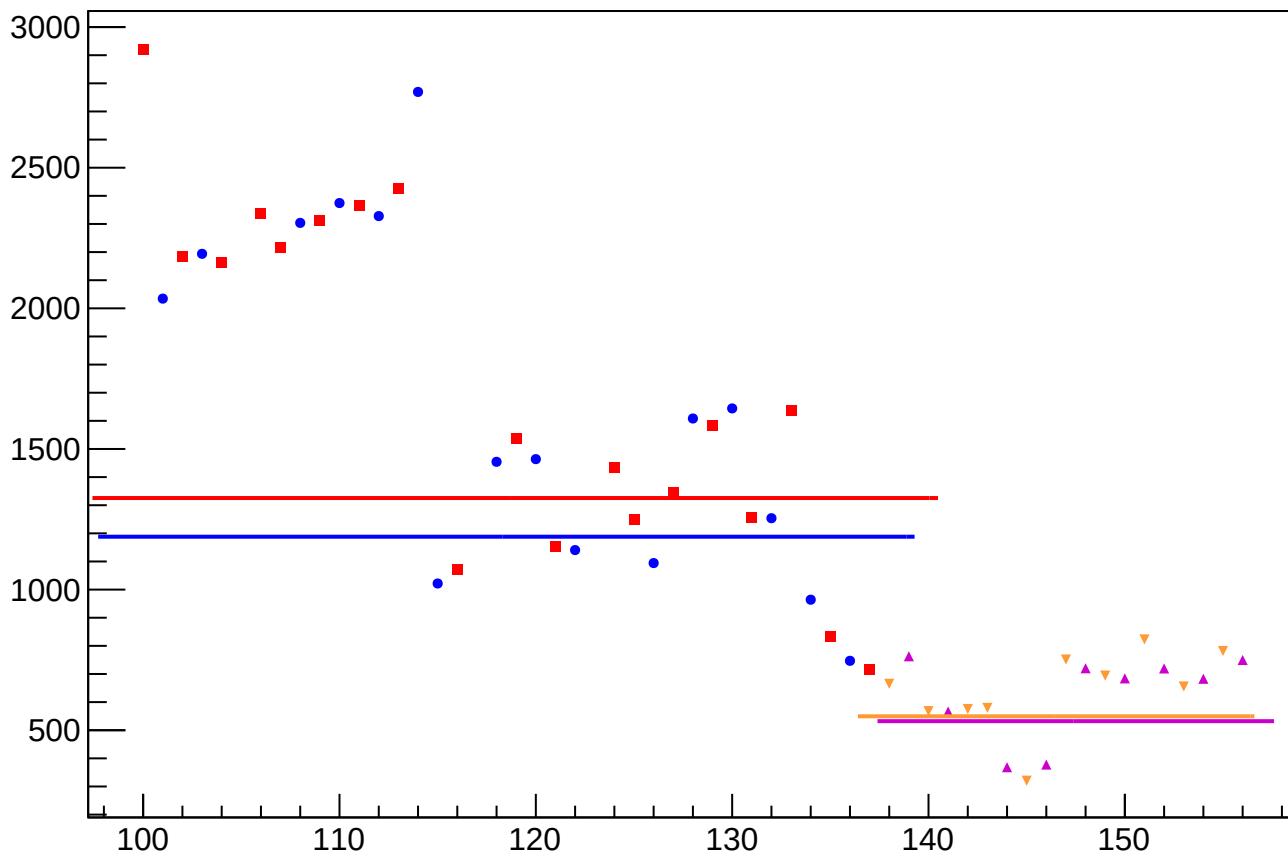
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -245.705 $\pm$ 185.108 χ^2 /NDF:30.1/24

Out: -467.625 $\pm$ 192.524 χ^2 /NDF:43.6/28

All: -352.309 $\pm$ 133.436 χ^2 /NDF: 74.3/53

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: 549.520+/-0.146 χ^2/NDF : 1415981.2/9

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 532.245+/-0.142 χ^2/NDF : 1317105.8/8

Left: 540.612+/-0.102 χ^2/NDF : 2740262.7/18

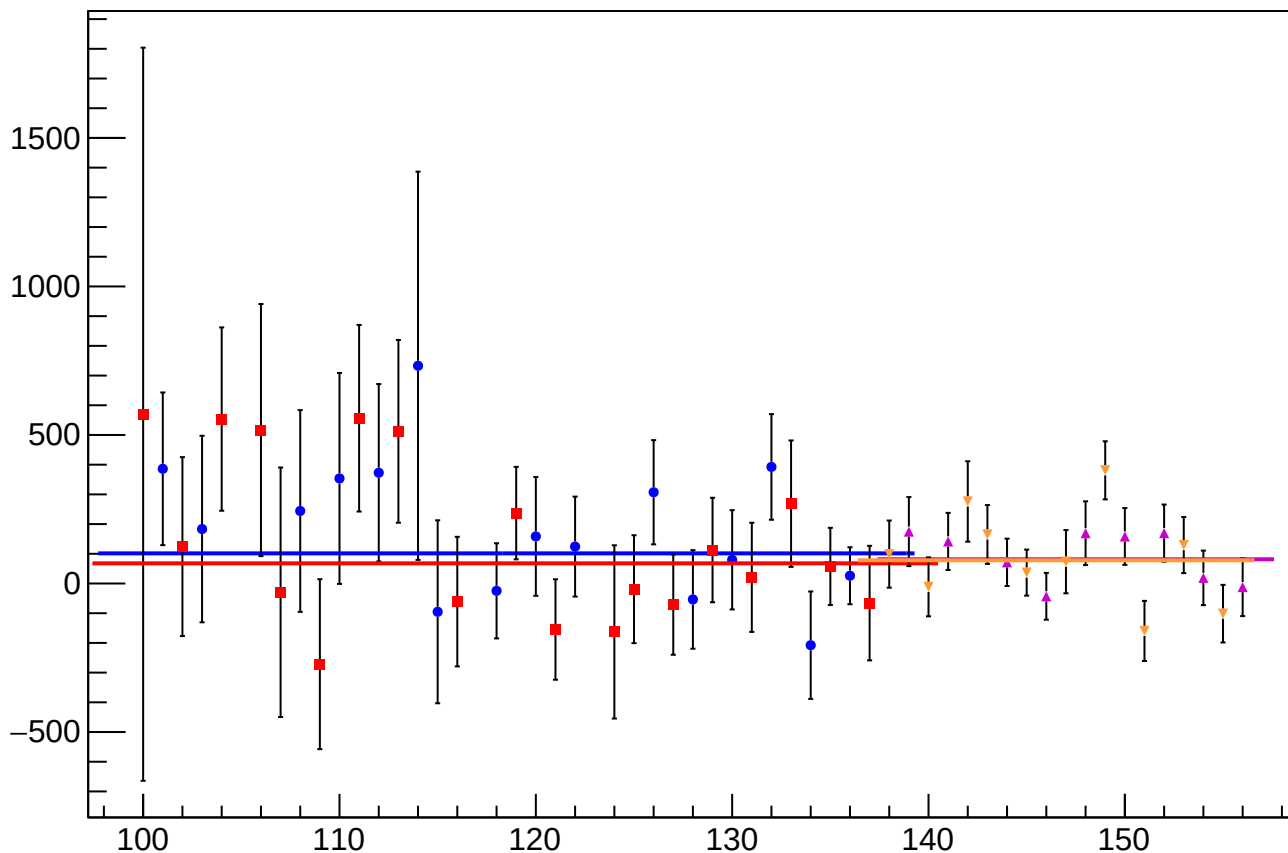
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 630.225+/-0.131 χ^2/NDF : 6552025.0/24

Out: 655.002+/-0.136 χ^2/NDF : 7153562.2/28

All: 642.127+/-0.094 χ^2/NDF : 13722800.6/53

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: 78.152 $\pm$ 31.442 χ^2 /NDF:22.9/9

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 81.574 $\pm$ 31.187 χ^2 /NDF:7.1/8

Left: 79.877 $\pm$ 22.142 χ^2 /NDF: 30.0/18

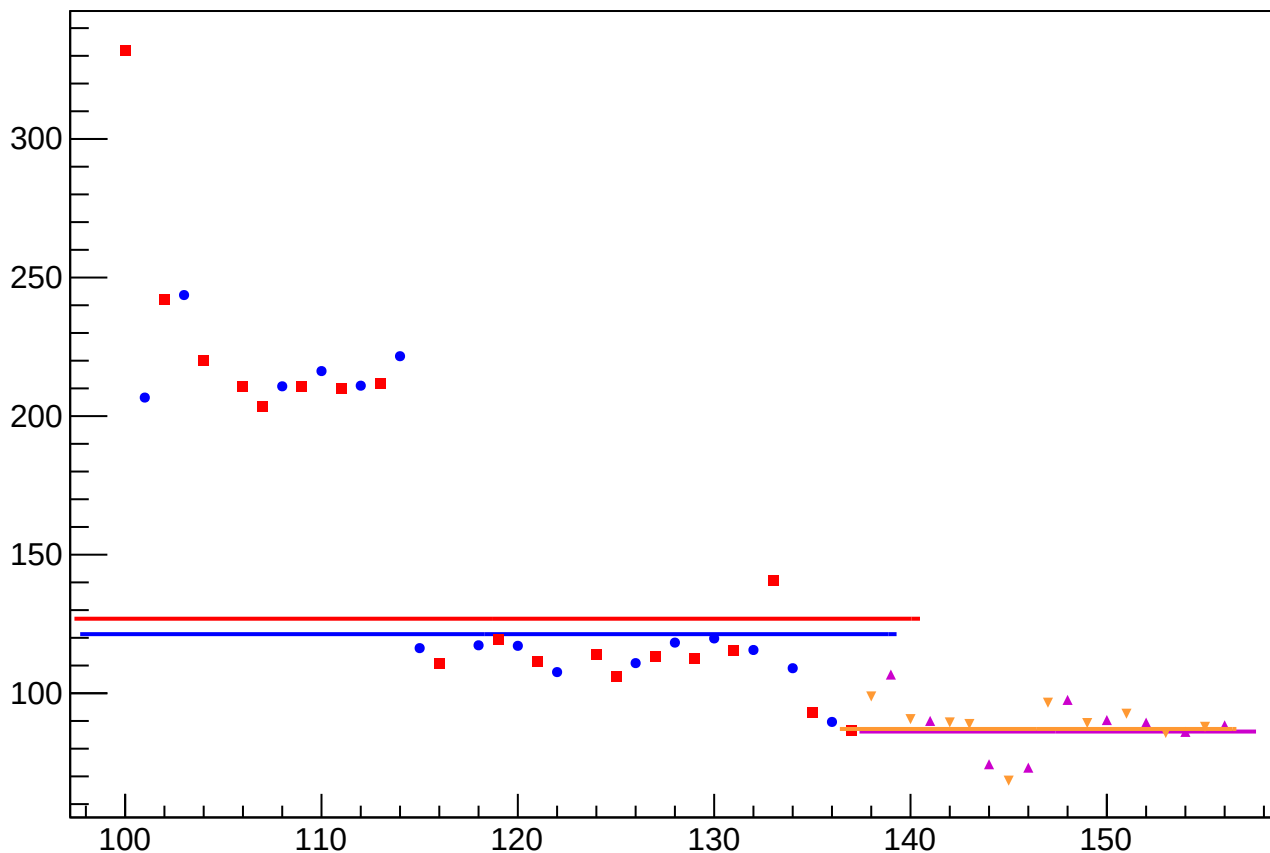
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 87.537 $\pm$ 26.092 χ^2 /NDF:20.6/24

Out: 75.185 $\pm$ 26.514 χ^2 /NDF:39.0/28

All: 81.460 $\pm$ 18.597 χ^2 /NDF: 59.7/53

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: 87.113+/-0.022 χ^2/NDF : 164333.2/9

Right Out: 126.895+/-0.035 χ^2/NDF : 1465478.6/18

Left In: 86.181+/-0.022 χ^2/NDF : 194029.6/8

Left: 86.643+/-0.016 χ^2/NDF : 359248.1/18

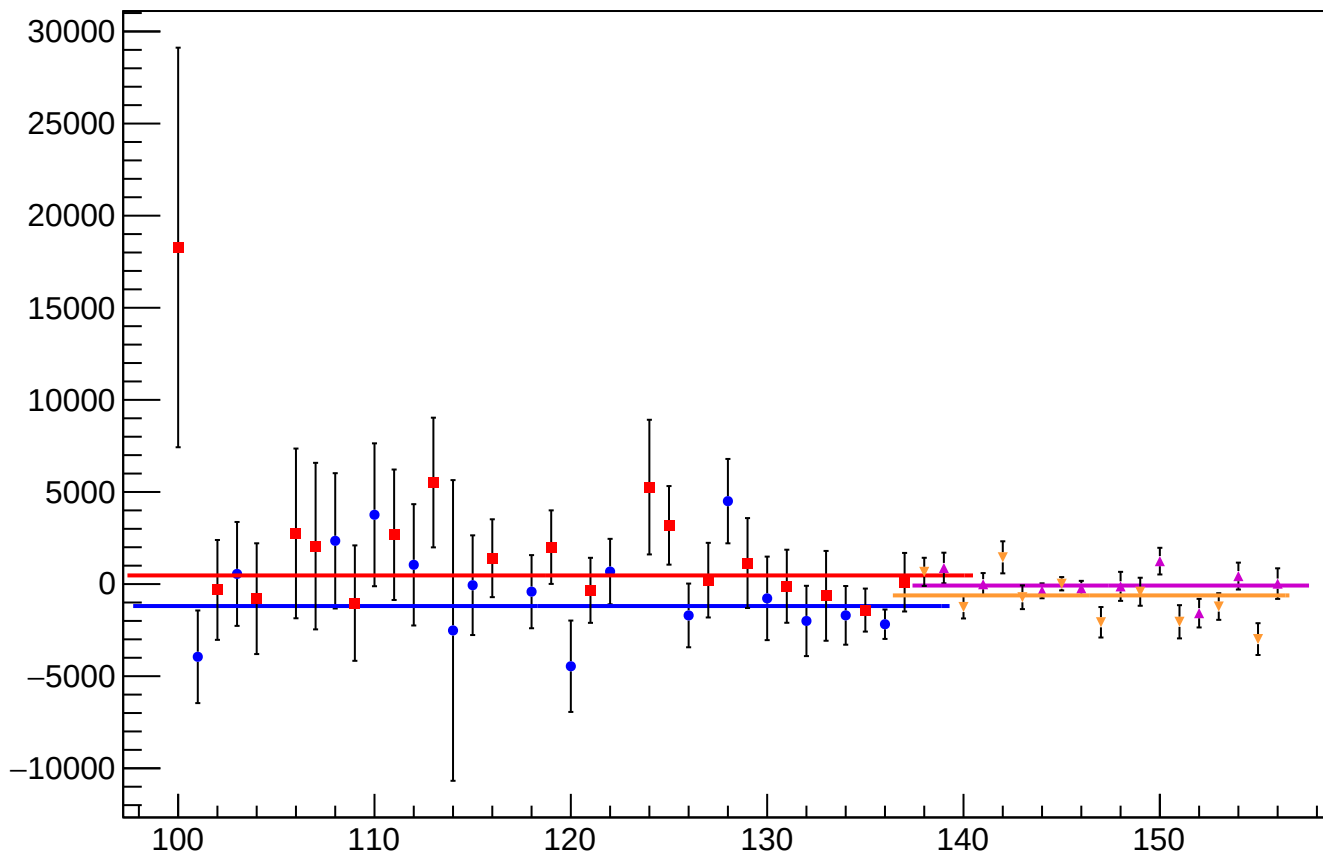
Right: 124.013+/-0.024 χ^2/NDF : 2765325.4/34

In: 96.727+/-0.018 χ^2/NDF : 2242787.9/24

Out: 98.605+/-0.019 χ^2/NDF : 2554741.6/28

All: 97.651+/-0.013 χ^2/NDF : 4802627.3/53

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: -615.075 $\pm$ 207.114 χ^2 /NDF:26.5/9

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: -79.474 $\pm$ 200.707 χ^2 /NDF:9.6/8

Left: -338.863 $\pm$ 144.133 χ^2 /NDF: 39.5/18

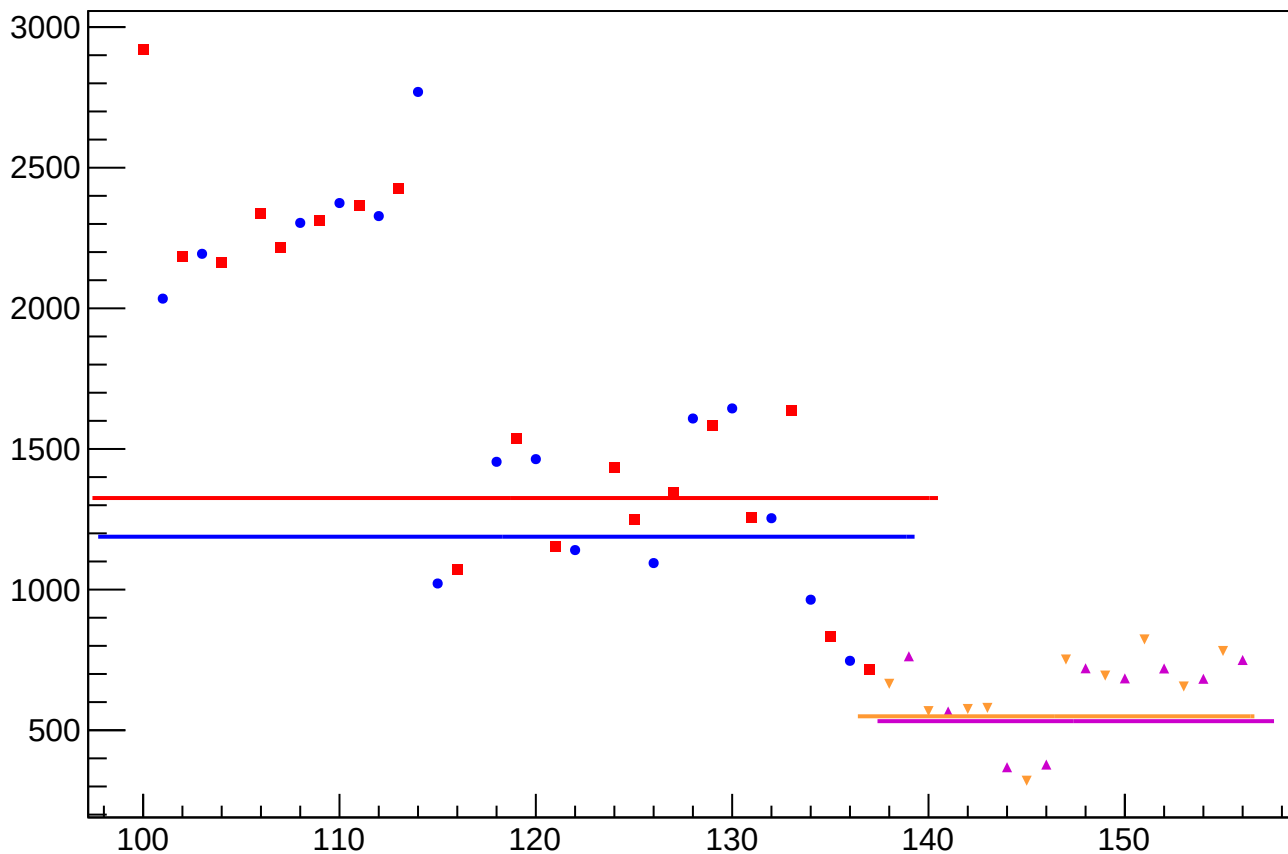
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -245.705 $\pm$ 185.108 χ^2 /NDF:30.1/24

Out: -467.625 $\pm$ 192.524 χ^2 /NDF:43.6/28

All: -352.309 $\pm$ 133.436 χ^2 /NDF: 74.3/53

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: 549.520+/-0.146 χ^2/NDF : 1415981.2/9

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 532.245+/-0.142 χ^2/NDF : 1317105.8/8

Left: 540.612+/-0.102 χ^2/NDF : 2740262.7/18

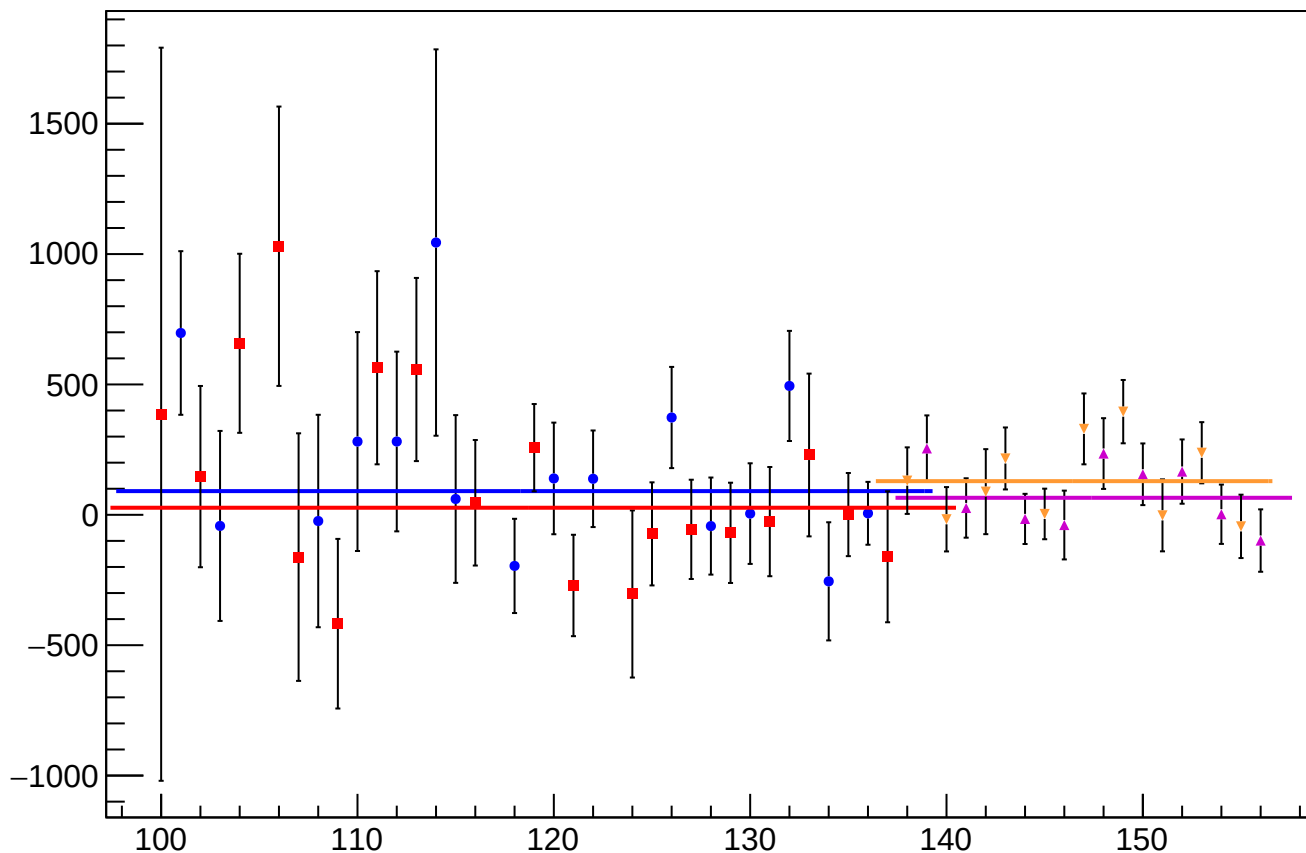
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 630.225+/-0.131 χ^2/NDF : 6552025.0/24

Out: 655.002+/-0.136 χ^2/NDF : 7153562.2/28

All: 642.127+/-0.094 χ^2/NDF : 13722800.6/53

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: 129.136 $\pm$ 39.023 χ^2 /NDF:14.5/9

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 65.308 $\pm$ 39.417 χ^2 /NDF:8.7/8

Left: 97.543 $\pm$ 27.732 χ^2 /NDF: 24.5/18

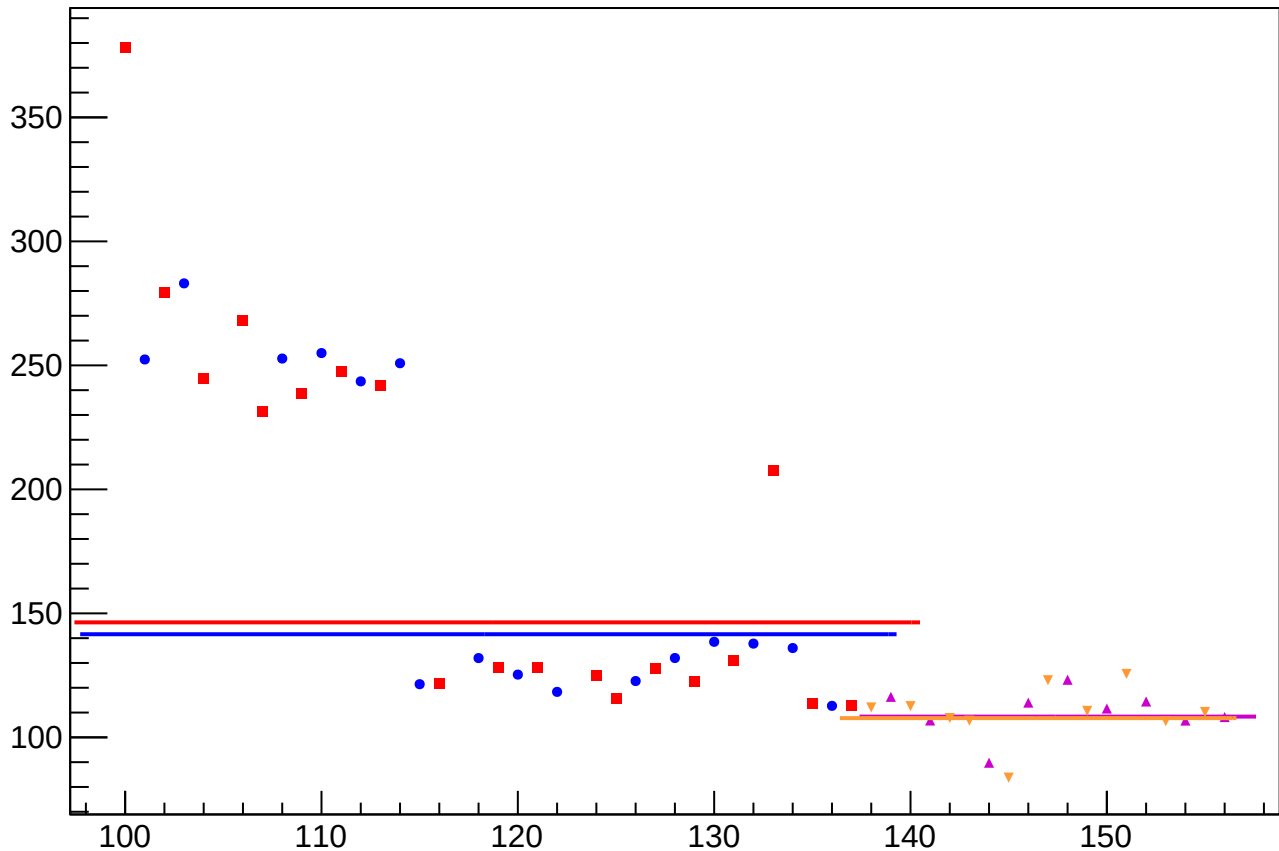
Right: 59.860 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 73.878 $\pm$ 32.149 χ^2 /NDF:26.9/24

Out: 96.608 $\pm$ 32.203 χ^2 /NDF:37.2/28

All: 85.224 $\pm$ 22.752 χ^2 /NDF: 64.4/53

dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586+/-0.039 χ^2/NDF : 1262366.8/15

Left Out: 107.758+/-0.028 χ^2/NDF :188742.1/9

Right Out: 146.368+/-0.040 χ^2/NDF : 1513656.0/18

Left In: 108.374+/-0.028 χ^2/NDF :117518.5/8

Left: 108.063+/-0.020 χ^2/NDF : 306507.2/18

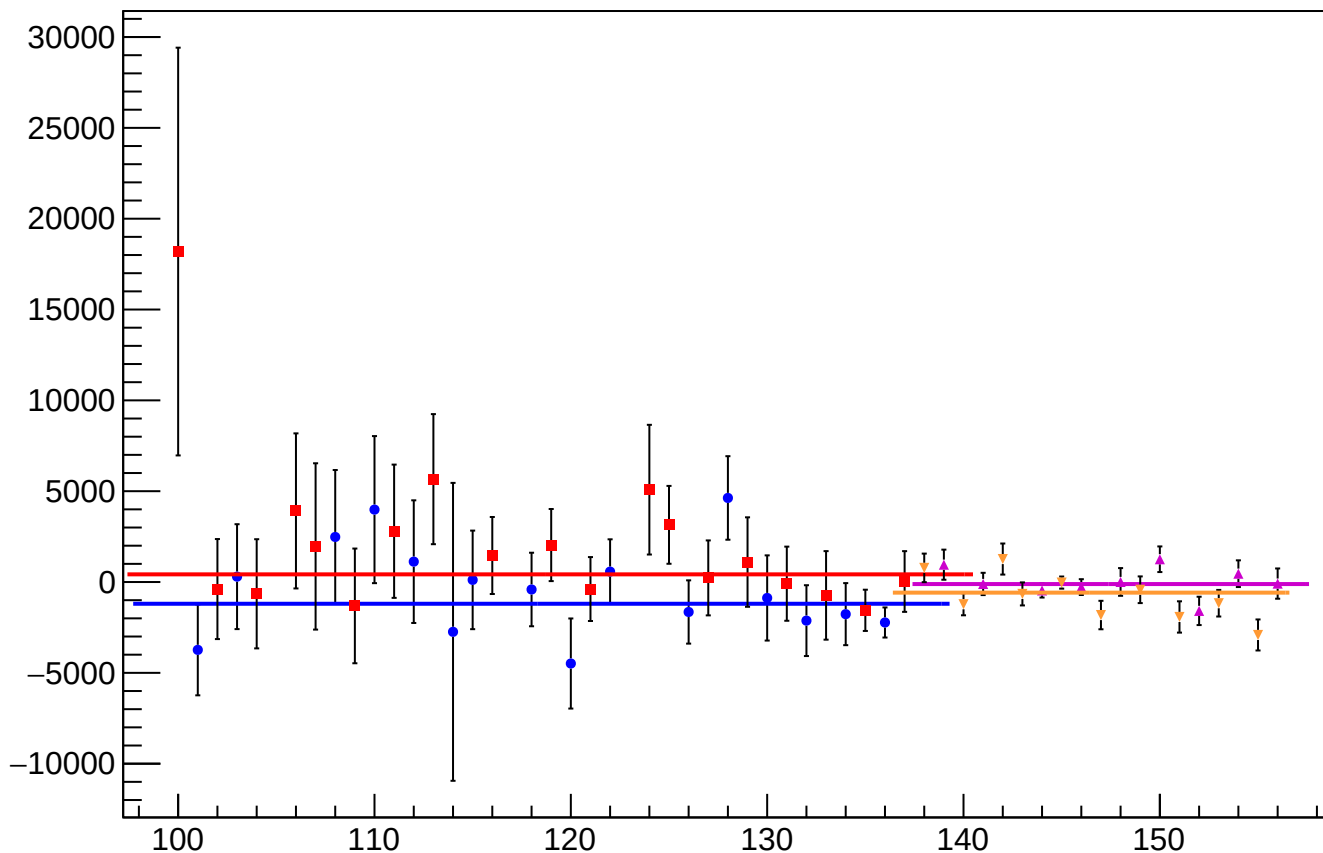
Right: 143.916+/-0.028 χ^2/NDF : 2783239.3/34

In: 119.492+/-0.023 χ^2/NDF :1855221.9/24

Out: 120.075+/-0.023 χ^2/NDF :2326986.3/28

All: 119.783+/-0.016 χ^2/NDF : 4182536.3/53

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: -584.301 $\pm$ 199.199 χ^2 /NDF:24.6/9

Right Out: 422.161 $\pm$ 523.834 χ^2 /NDF: 14.3/18

Left In: -111.907 $\pm$ 201.595 χ^2 /NDF:10.6/8

Left: -350.928 $\pm$ 141.695 χ^2 /NDF: 37.9/18

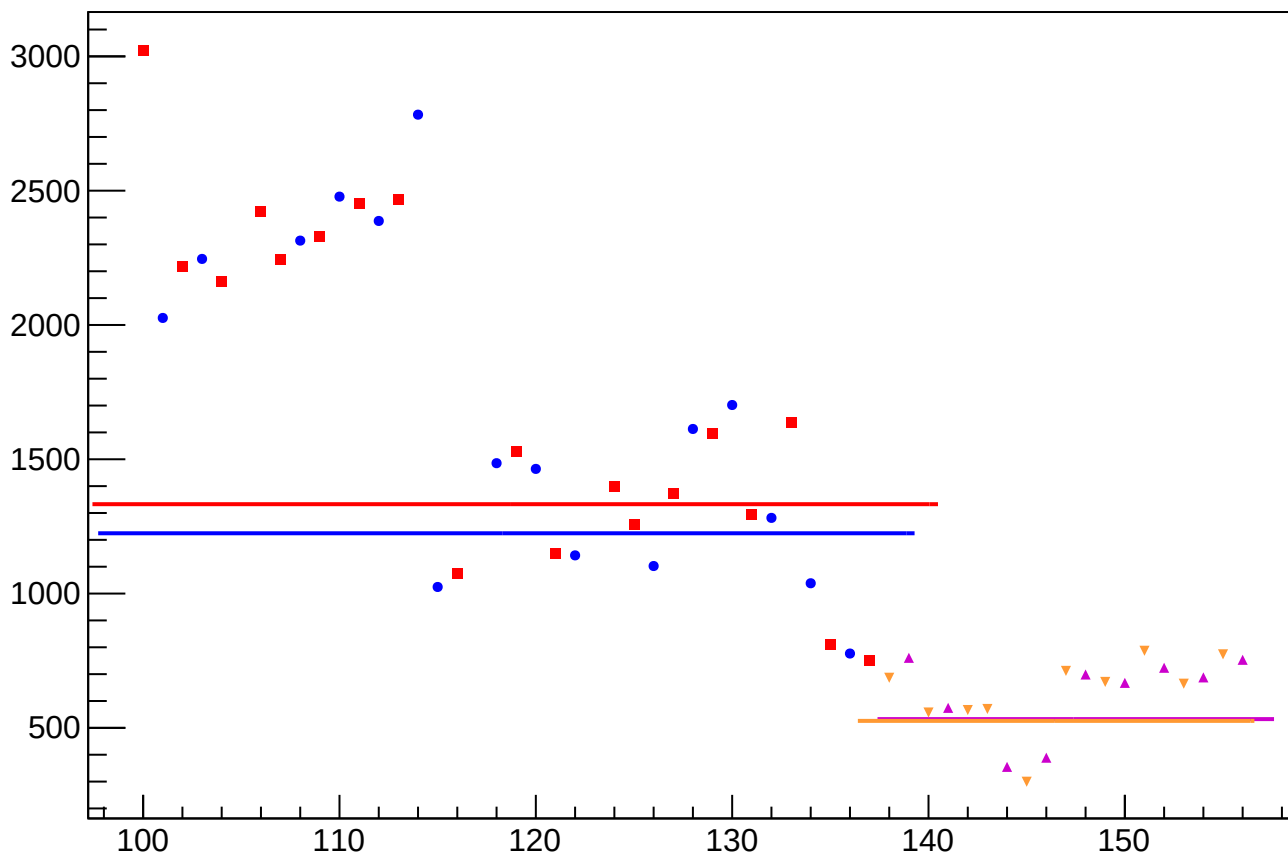
Right: -438.942 $\pm$ 358.384 χ^2 /NDF: 35.3/34

In: -268.182 $\pm$ 186.509 χ^2 /NDF:30.7/24

Out: -457.147 $\pm$ 186.191 χ^2 /NDF:42.1/28

All: -362.826 $\pm$ 131.769 χ^2 /NDF: 73.3/53

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: 526.004 +/- 0.141 χ^2/NDF : 1637287.7/9

Right Out: 1332.785 +/- 0.370 χ^2/NDF : 1994811.5/18

Left In: 532.621 +/- 0.143 χ^2/NDF : 1310850.4/8

Left: 529.273 +/- 0.100 χ^2/NDF : 2949228.3/18

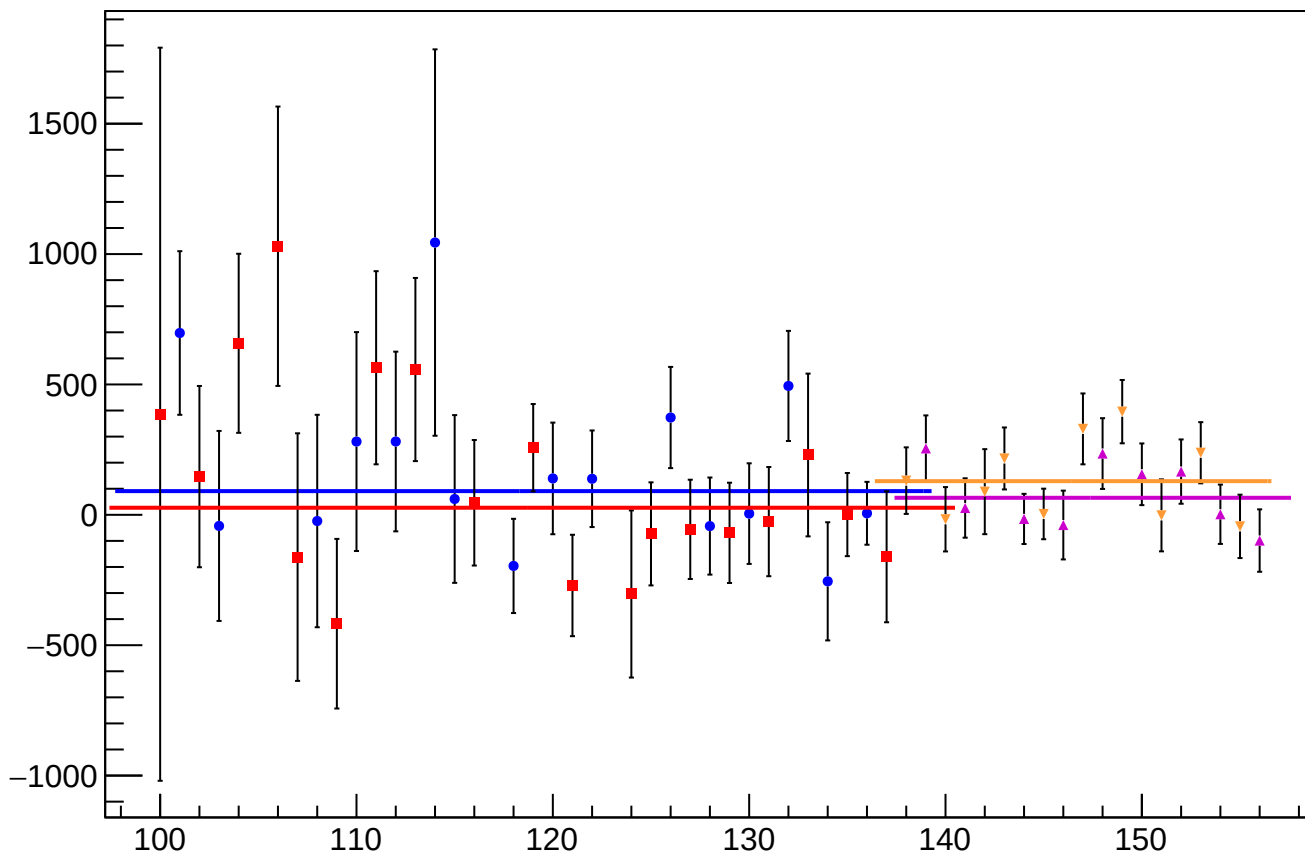
Right: 1275.169 +/- 0.253 χ^2/NDF : 3999659.2/34

In: 632.292 +/- 0.132 χ^2/NDF : 6663746.1/24

Out: 627.930 +/- 0.132 χ^2/NDF : 7776845.0/28

All: 630.107 +/- 0.093 χ^2/NDF : 14441139.0/53

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: 129.134 $\pm$ 39.024 χ^2 /NDF:14.5/9

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 65.307 $\pm$ 39.417 χ^2 /NDF:8.7/8

Left: 97.541 $\pm$ 27.732 χ^2 /NDF: 24.5/18

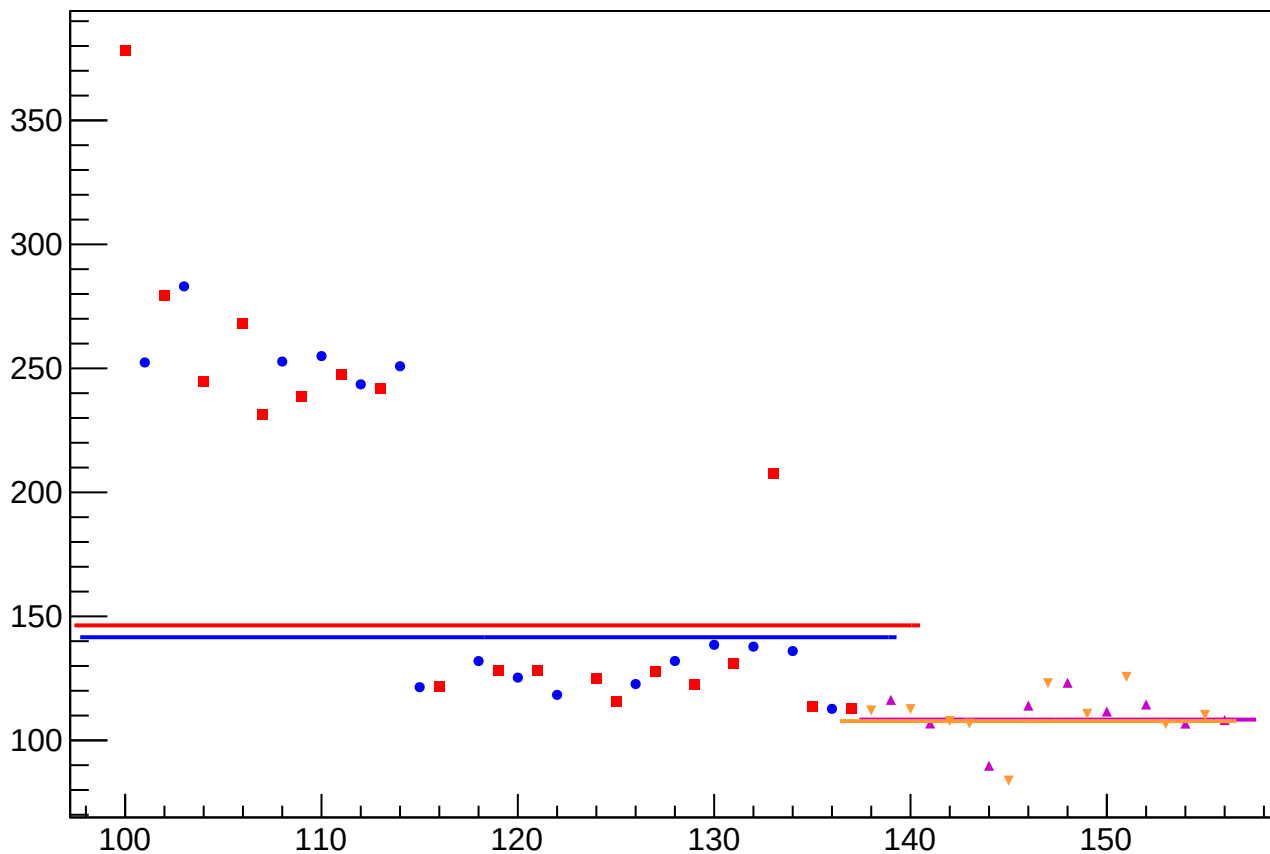
Right: 59.862 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 73.879 $\pm$ 32.149 χ^2 /NDF:26.9/24

Out: 96.606 $\pm$ 32.203 χ^2 /NDF:37.2/28

All: 85.223 $\pm$ 22.752 χ^2 /NDF: 64.4/53

eigen_dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586+/-0.039 χ^2/NDF : 1262350.2/15

Left Out: 107.759+/-0.028 χ^2/NDF : 188734.0/9

Right Out: 146.368+/-0.040 χ^2/NDF : 1513641.5/18

Left In: 108.374+/-0.028 χ^2/NDF : 117515.8/8

Left: 108.063+/-0.020 χ^2/NDF : 306496.4/18

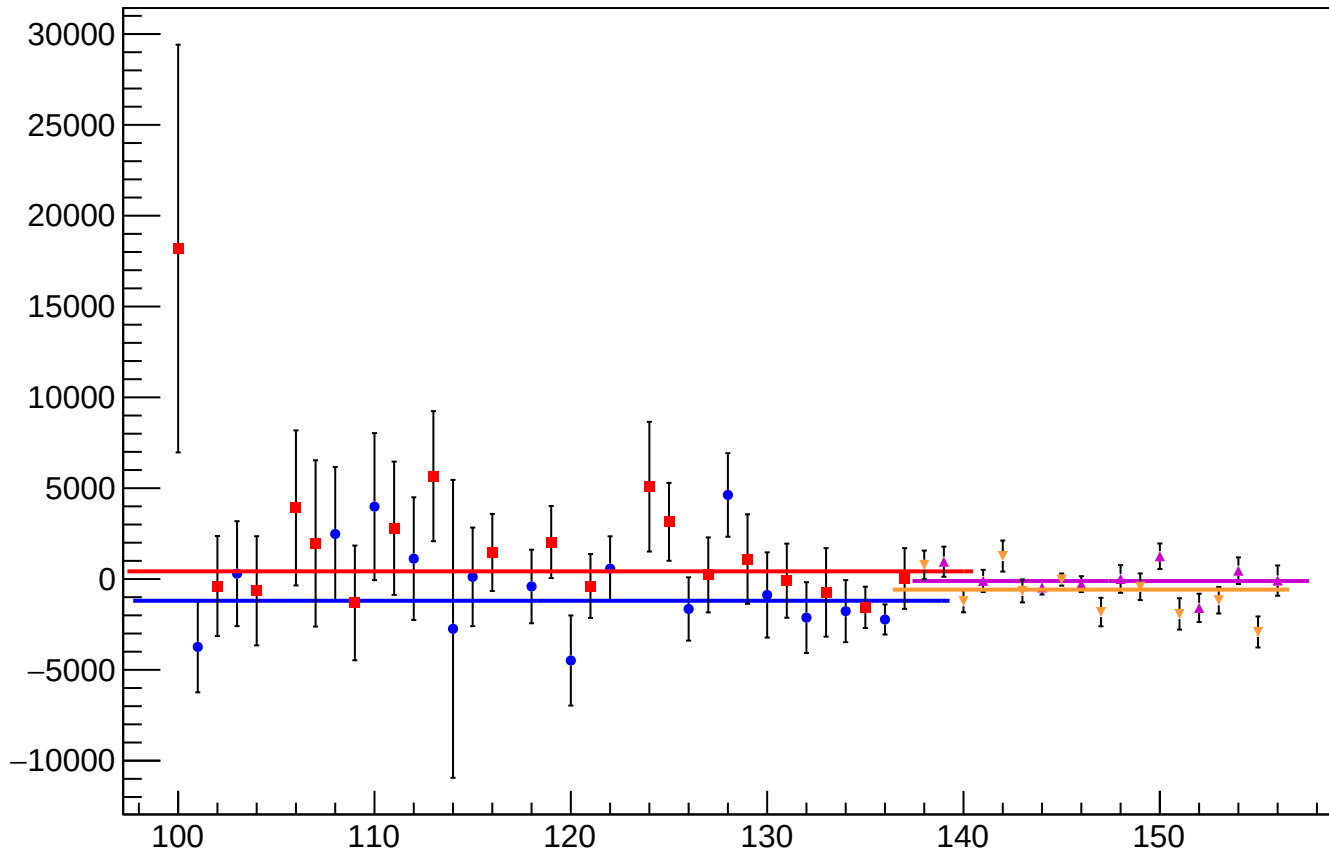
Right: 143.915+/-0.028 χ^2/NDF : 2783209.2/34

In: 119.493+/-0.023 χ^2/NDF : 1855174.6/24

Out: 120.076+/-0.023 χ^2/NDF : 2326939.9/28

All: 119.784+/-0.016 χ^2/NDF : 4182442.7/53

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: -584.298 $\pm$ 199.199 χ^2 /NDF:24.6/9

Right Out: 422.163 $\pm$ 523.833 χ^2 /NDF: 14.3/18

Left In: -111.907 $\pm$ 201.595 χ^2 /NDF:10.6/8

Left: -350.927 $\pm$ 141.694 χ^2 /NDF: 37.9/18

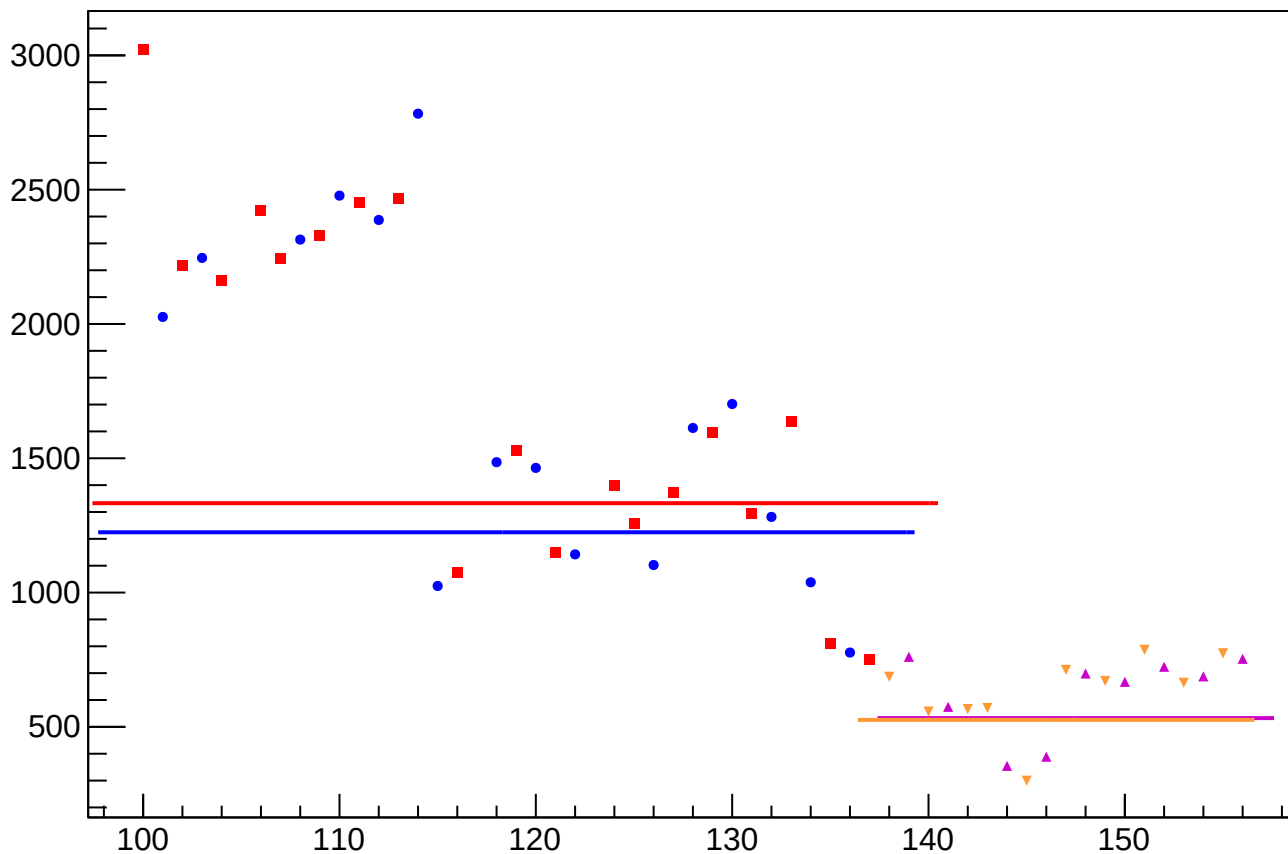
Right: -438.939 $\pm$ 358.384 χ^2 /NDF: 35.3/34

In: -268.182 $\pm$ 186.509 χ^2 /NDF:30.7/24

Out: -457.145 $\pm$ 186.191 χ^2 /NDF:42.1/28

All: -362.825 $\pm$ 131.769 χ^2 /NDF: 73.3/53

asym_sam_26_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1224.470 ± 0.347 $\chi^2/\text{NDF}: 1959341.1/15$

Left Out: 526.001 ± 0.141 $\chi^2/\text{NDF}: 1637328.2/9$

Right Out: 1332.784 ± 0.370 $\chi^2/\text{NDF}: 1994794.3/18$

Left In: 532.619 ± 0.143 $\chi^2/\text{NDF}: 1310867.2/8$

Left: 529.271 ± 0.100 $\chi^2/\text{NDF}: 2949286.0/18$

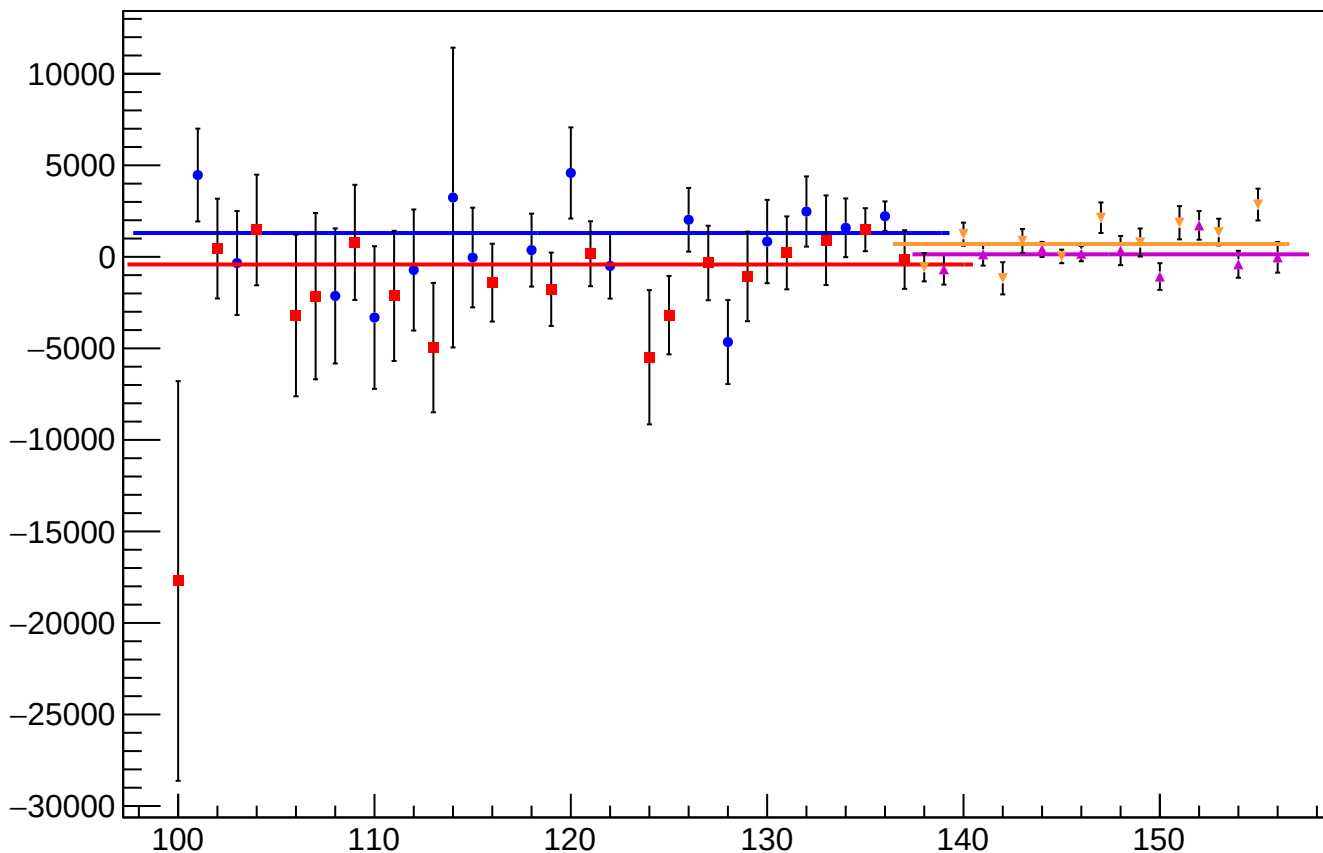
Right: 1275.168 ± 0.253 $\chi^2/\text{NDF}: 3999620.7/34$

In: 632.291 ± 0.132 $\chi^2/\text{NDF}: 6663756.3/24$

Out: 627.928 ± 0.132 $\chi^2/\text{NDF}: 7776896.6/28$

All: 630.105 ± 0.093 $\chi^2/\text{NDF}: 14441201.1/53$

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1301.623+/-481.959 χ^2/NDF : 16.5/15

Left Out: 700.559+/-210.141 χ^2/NDF : 22.9/9

Right Out: -418.283+/-524.515 χ^2/NDF : 13.0/18

Left In: 137.758+/-203.800 χ^2/NDF : 8.9/8

Left: 410.539+/-146.299 χ^2/NDF : 35.5/18

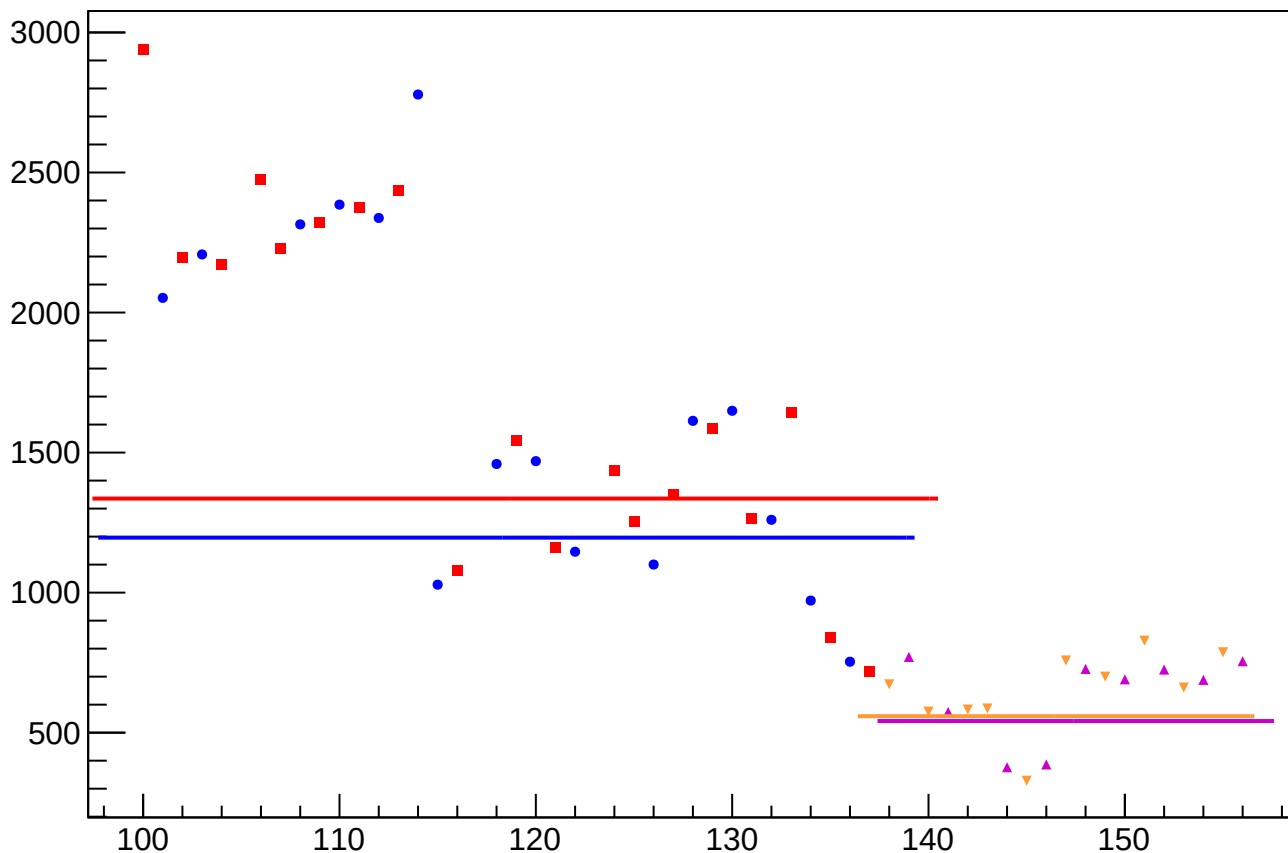
Right: 514.263+/-354.889 χ^2/NDF : 35.3/34

In: 314.300+/-187.708 χ^2/NDF : 30.3/24

Out: 545.811+/-195.068 χ^2/NDF : 39.9/28

All: 425.605+/-135.257 χ^2/NDF : 70.9/53

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1196.353+/-0.341 χ^2/NDF : 2031710.2/15

Left Out: 558.790+/-0.149 χ^2/NDF : 1355603.8/9

Right Out: 1335.809+/-0.371 χ^2/NDF : 1951472.1/18

Left In: 541.562+/-0.144 χ^2/NDF : 1263480.5/8

Left: 549.912+/-0.103 χ^2/NDF : 2626011.8/18

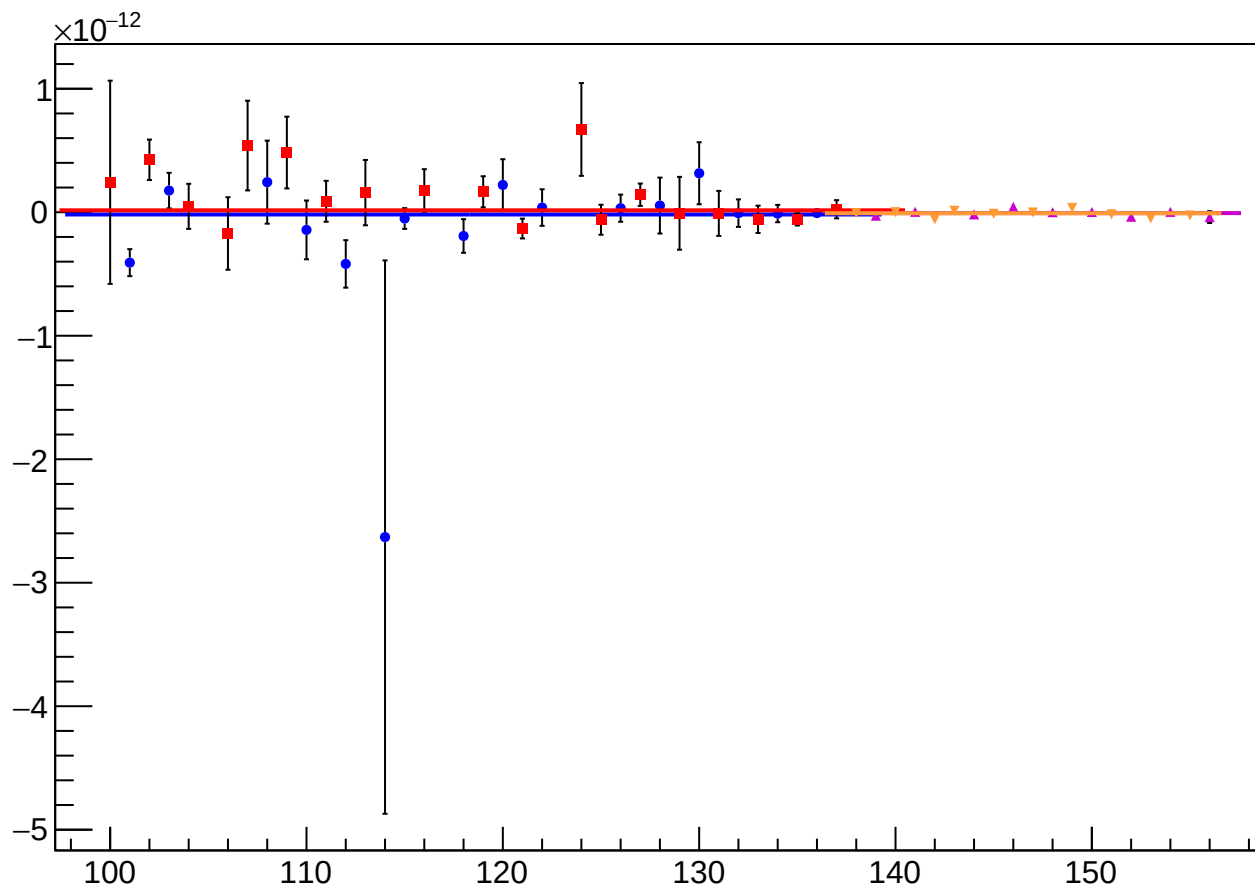
Right: 1260.195+/-0.251 χ^2/NDF : 4059839.9/34

In: 640.884+/-0.133 χ^2/NDF : 6426835.0/24

Out: 666.260+/-0.138 χ^2/NDF : 7089125.5/28

All: 653.085+/-0.096 χ^2/NDF : 13533534.0/53

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: 7.8/9

Right Out: 0.000+/-0.000 χ^2 /NDF: 25.6/18

Left In: -0.000+/-0.000 χ^2 /NDF: 11.4/8

Left: -0.000+/-0.000 χ^2 /NDF: 19.2/18

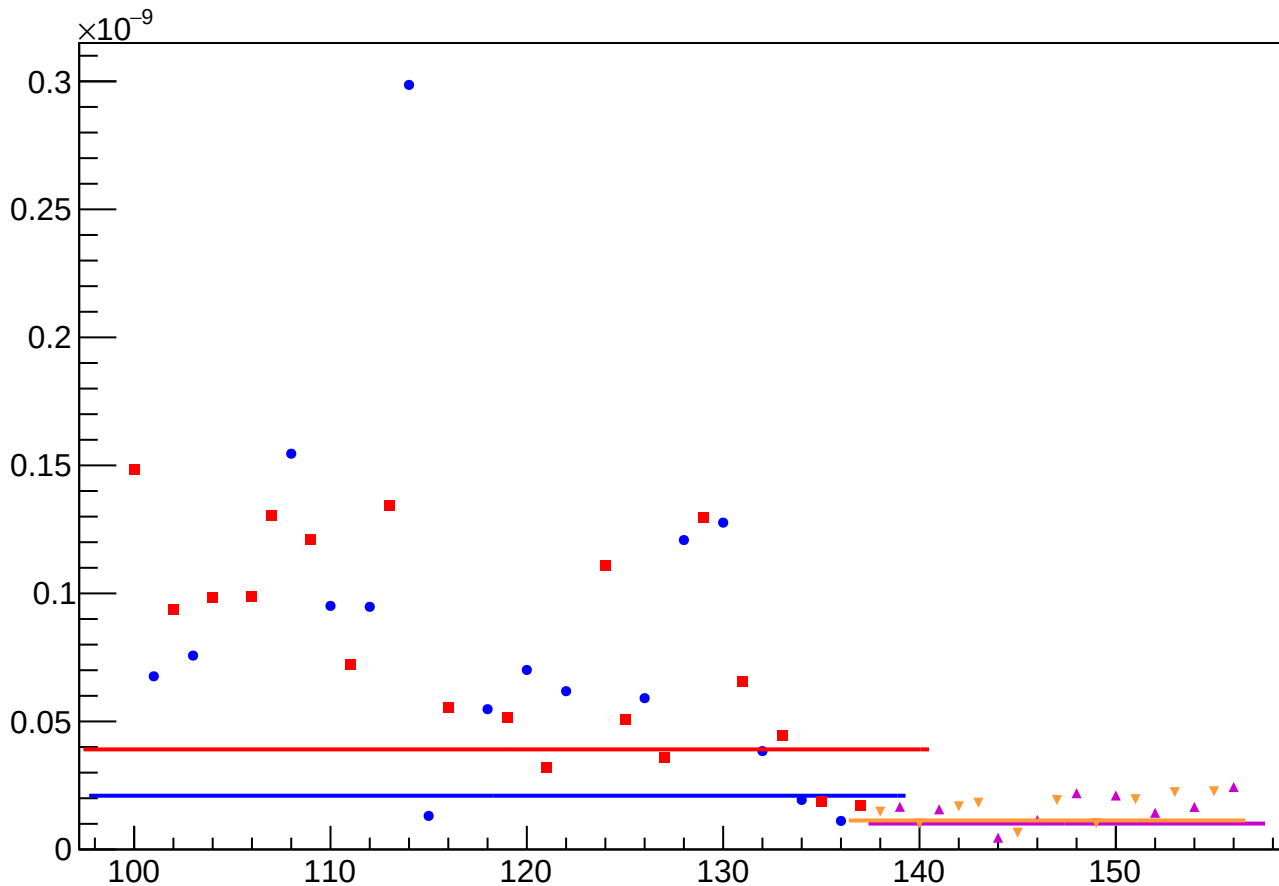
Right: -0.000+/-0.000 χ^2 /NDF: 53.5/34

In: -0.000+/-0.000 χ^2 /NDF: 38.5/24

Out: -0.000+/-0.000 χ^2 /NDF: 34.1/28

All: -0.000+/-0.000 χ^2 /NDF: 72.7/53

asym_sam_26_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3380958.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1219613.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2073862.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1650578.6/8

Left: 0.000+/-0.000 χ^2/NDF : 2901062.4/18

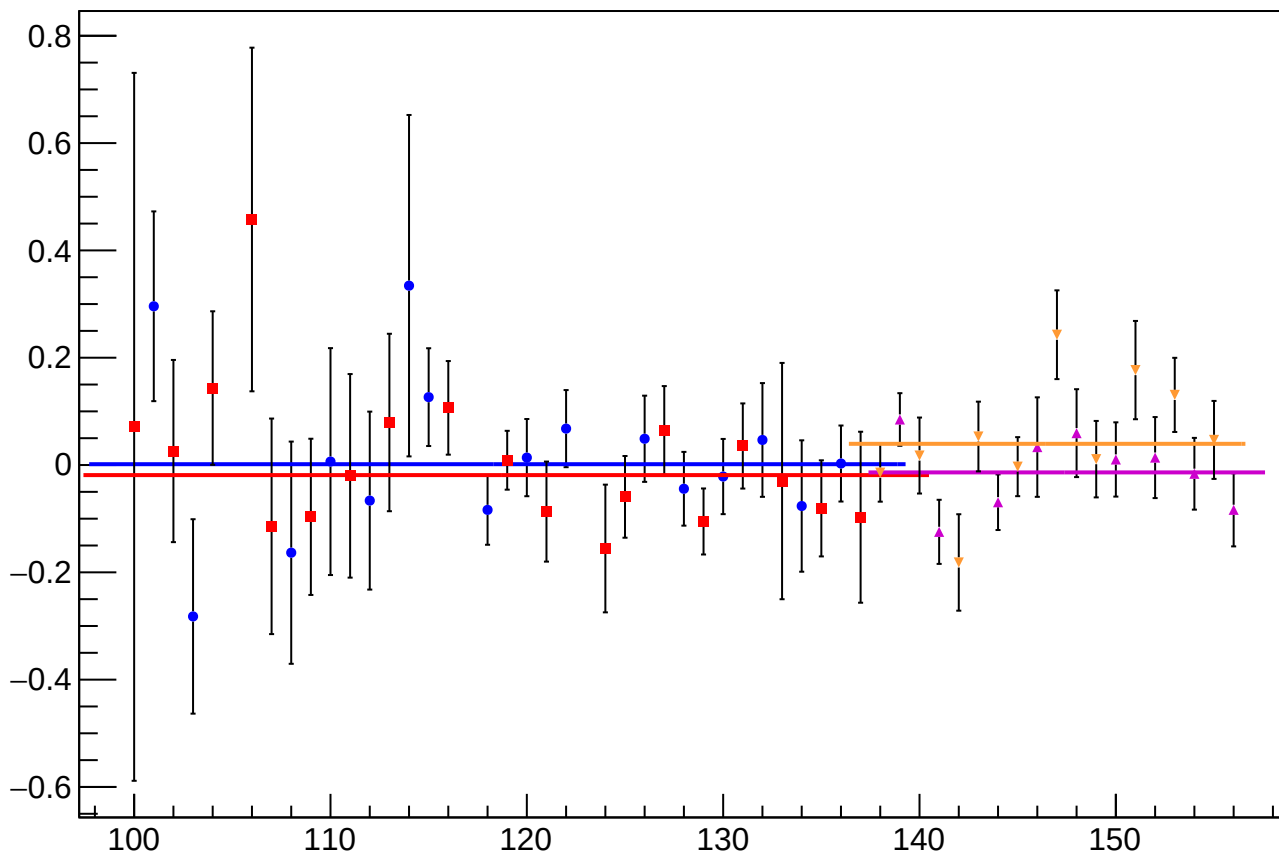
Right: 0.000+/-0.000 χ^2/NDF : 6062420.5/34

In: 0.000+/-0.000 χ^2/NDF :5681925.6/24

Out: 0.000+/-0.000 χ^2/NDF :5197355.4/28

All: 0.000+/-0.000 χ^2/NDF : 10930430.5/53

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: 0.040 $\pm$ 0.022 χ^2 /NDF:18.0/9

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: -0.014 $\pm$ 0.022 χ^2 /NDF:11.0/8

Left: 0.012 $\pm$ 0.015 χ^2 /NDF: 32.0/18

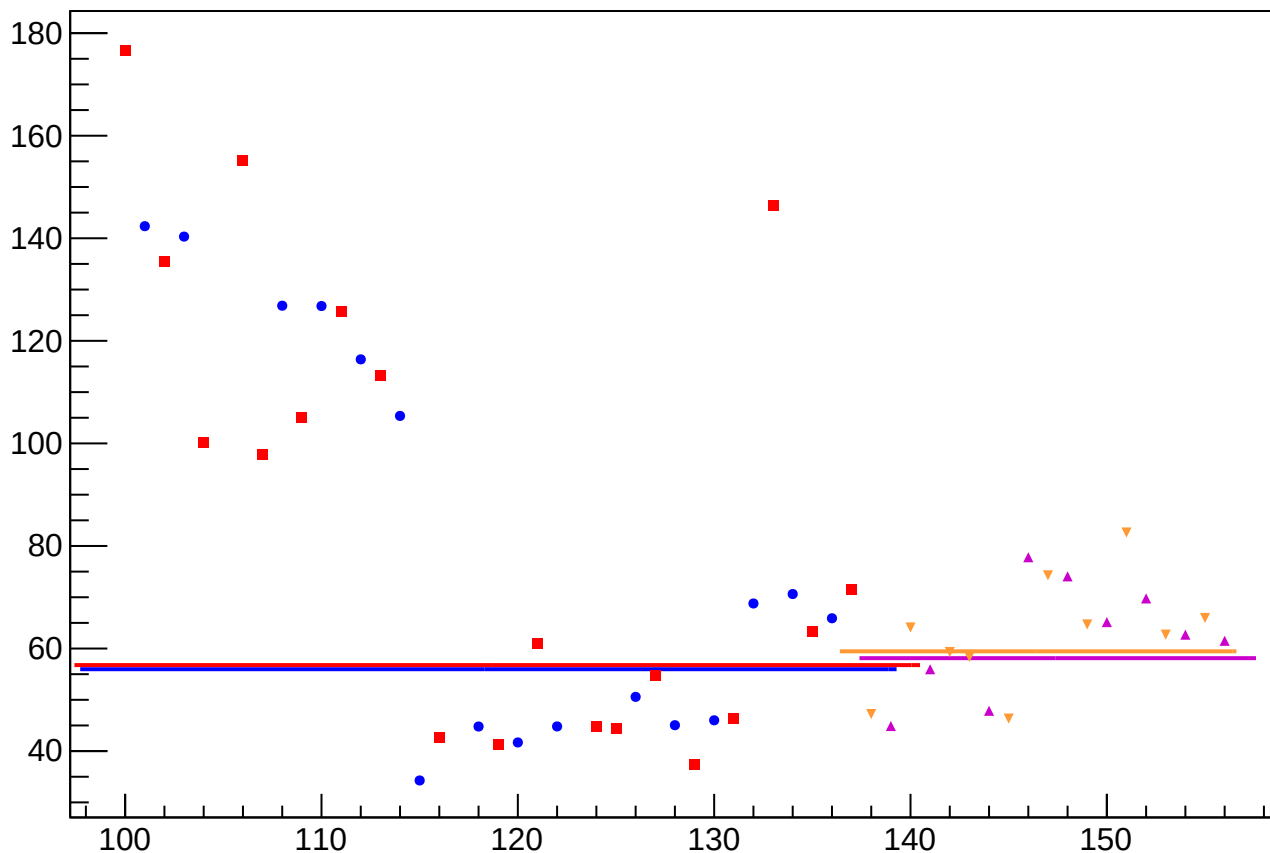
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: -0.007 $\pm$ 0.016 χ^2 /NDF:24.3/24

Out: 0.013 $\pm$ 0.016 χ^2 /NDF:34.4/28

All: 0.003 $\pm$ 0.011 χ^2 /NDF: 59.4/53

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: 59.458+/-0.015 χ^2/NDF : 448515.3/9

Right Out: 56.770+/-0.017 χ^2/NDF : 2553223.5/18

Left In: 58.122+/-0.015 χ^2/NDF : 475296.9/8

Left: 58.780+/-0.011 χ^2/NDF : 927605.4/18

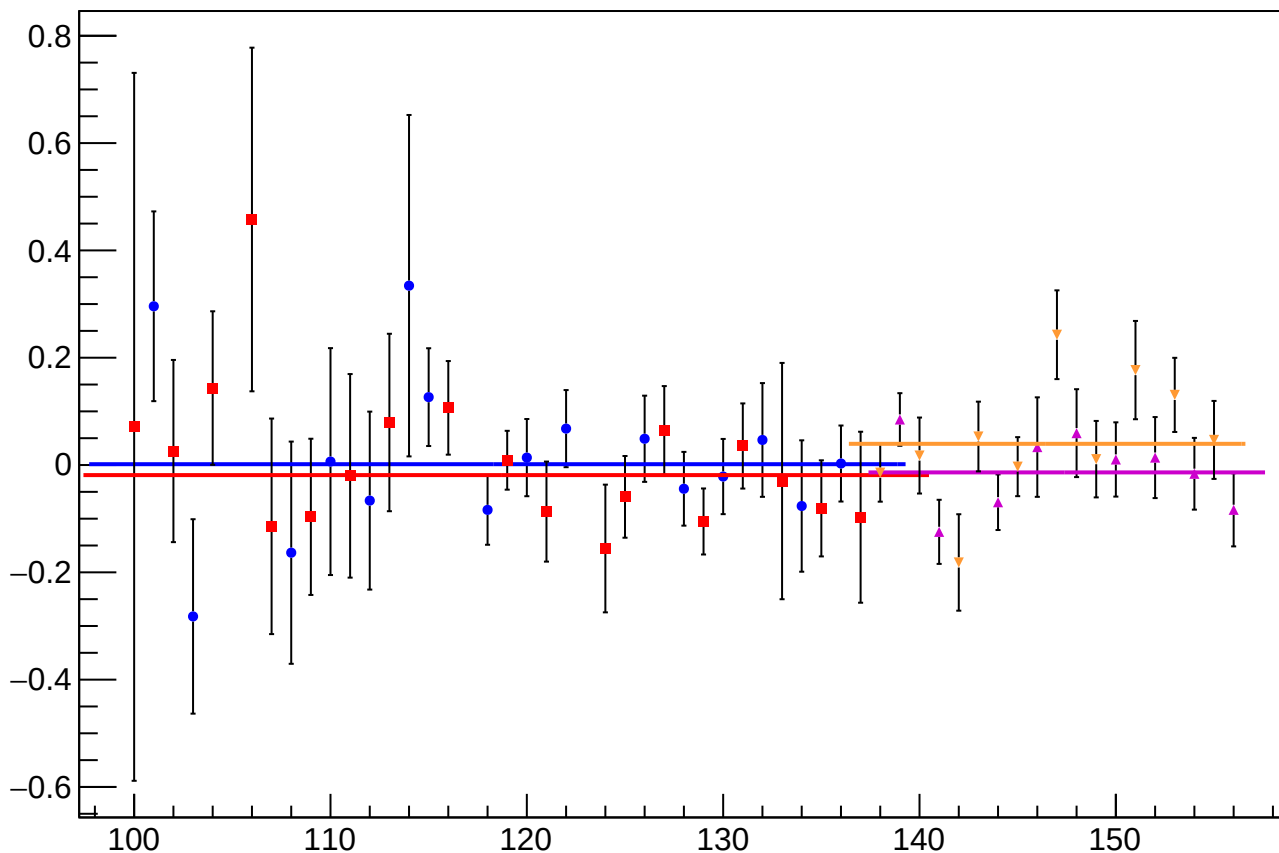
Right: 56.368+/-0.012 χ^2/NDF : 4734221.0/34

In: 57.136+/-0.011 χ^2/NDF : 2664297.4/24

Out: 58.213+/-0.011 χ^2/NDF : 3015761.1/28

All: 57.669+/-0.008 χ^2/NDF : 5684630.8/53

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: 0.040 $\pm$ 0.022 χ^2 /NDF:18.0/9

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: -0.014 $\pm$ 0.022 χ^2 /NDF:11.0/8

Left: 0.012 $\pm$ 0.015 χ^2 /NDF: 32.0/18

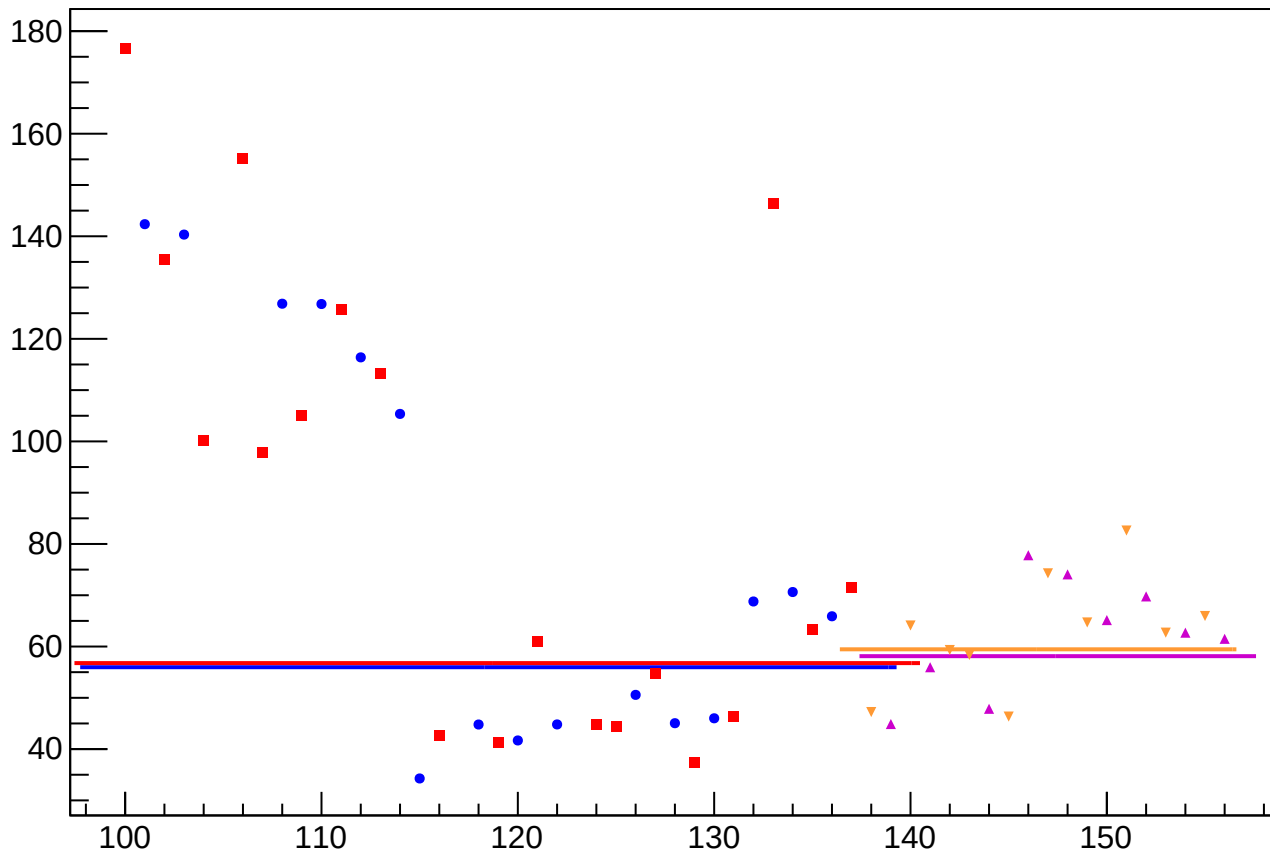
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: -0.007 $\pm$ 0.016 χ^2 /NDF:24.3/24

Out: 0.013 $\pm$ 0.016 χ^2 /NDF:34.4/28

All: 0.003 $\pm$ 0.011 χ^2 /NDF: 59.4/53

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968 $\pm$ 0.017 χ^2 /NDF: 2179829.3/15

Left Out: 59.458 $\pm$ 0.015 χ^2 /NDF: 448515.3/9

Right Out: 56.770 $\pm$ 0.017 χ^2 /NDF: 2553223.5/18

Left In: 58.122 $\pm$ 0.015 χ^2 /NDF: 475296.9/8

Left: 58.780 $\pm$ 0.011 χ^2 /NDF: 927605.4/18

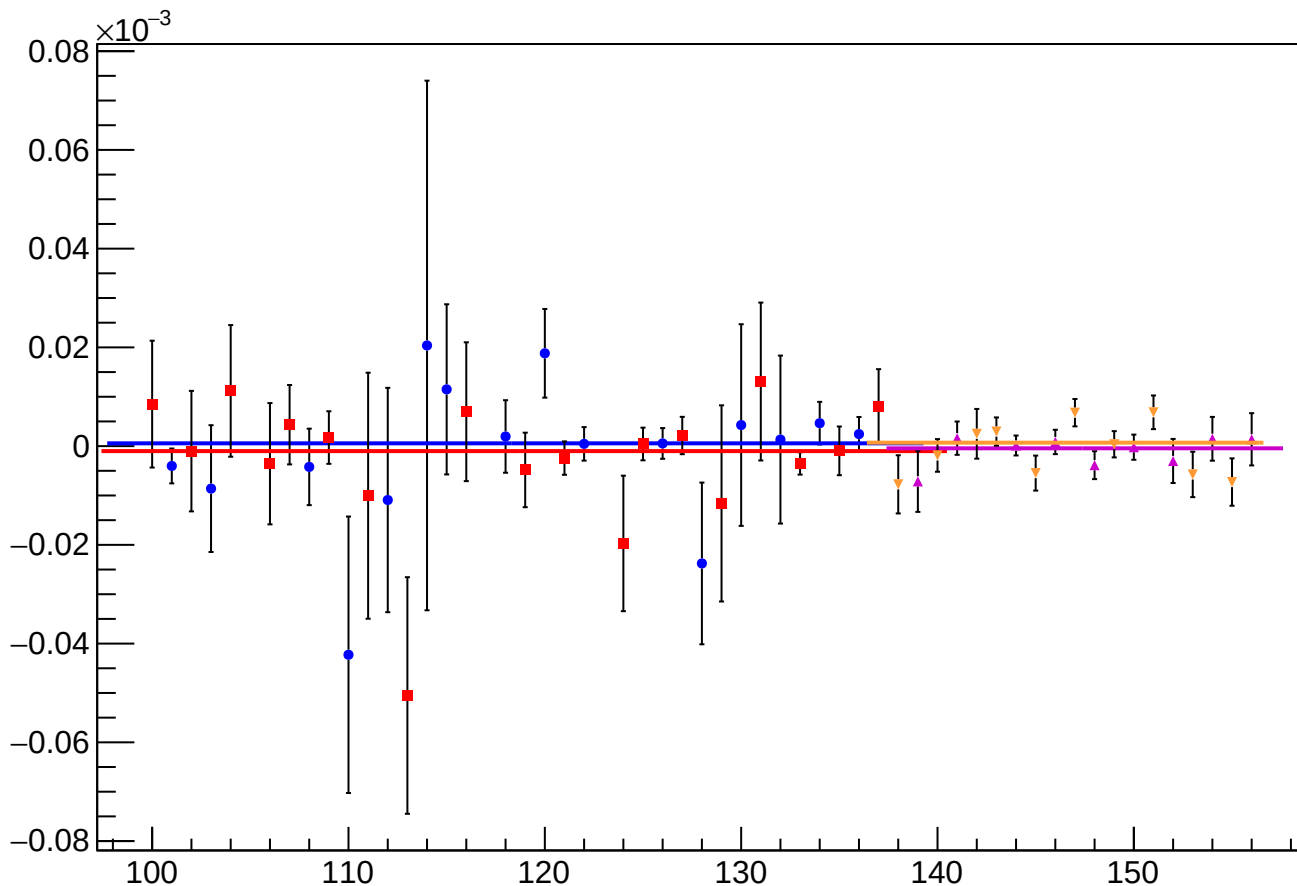
Right: 56.368 $\pm$ 0.012 χ^2 /NDF: 4734221.0/34

In: 57.136 $\pm$ 0.011 χ^2 /NDF: 2664297.4/24

Out: 58.213 $\pm$ 0.011 χ^2 /NDF: 3015761.1/28

All: 57.669 $\pm$ 0.008 χ^2 /NDF: 5684630.8/53

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13.3/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.2/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 13.8/18$

Left In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 4.0/8$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 23.8/18$

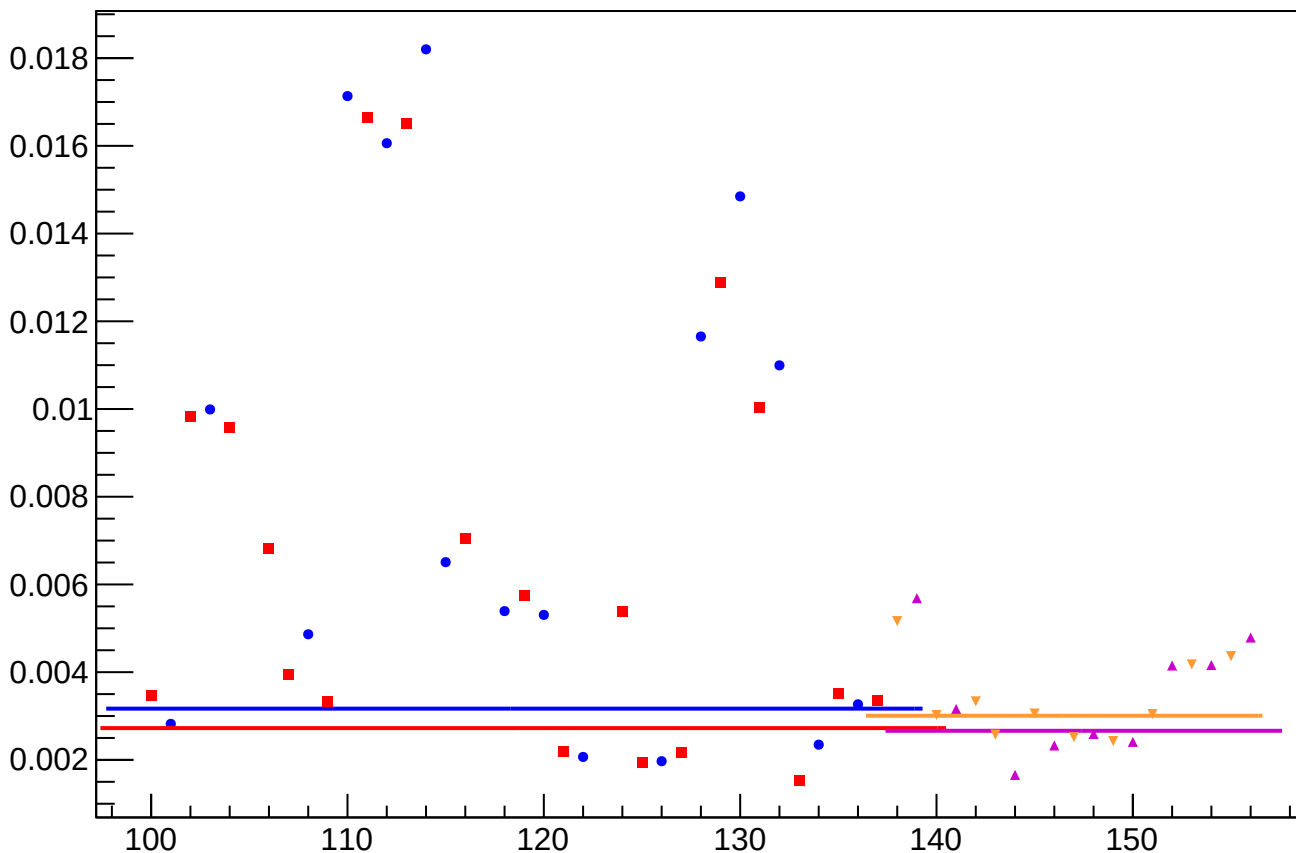
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 27.8/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.6/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 34.1/28$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 51.7/53$

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 : 769279.8/9

Right Out: 0.003+/-0.000 χ^2/NDF : 5153213.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 1849381.9/8

Left: 0.003+/-0.000 χ^2/NDF : 2721110.2/18

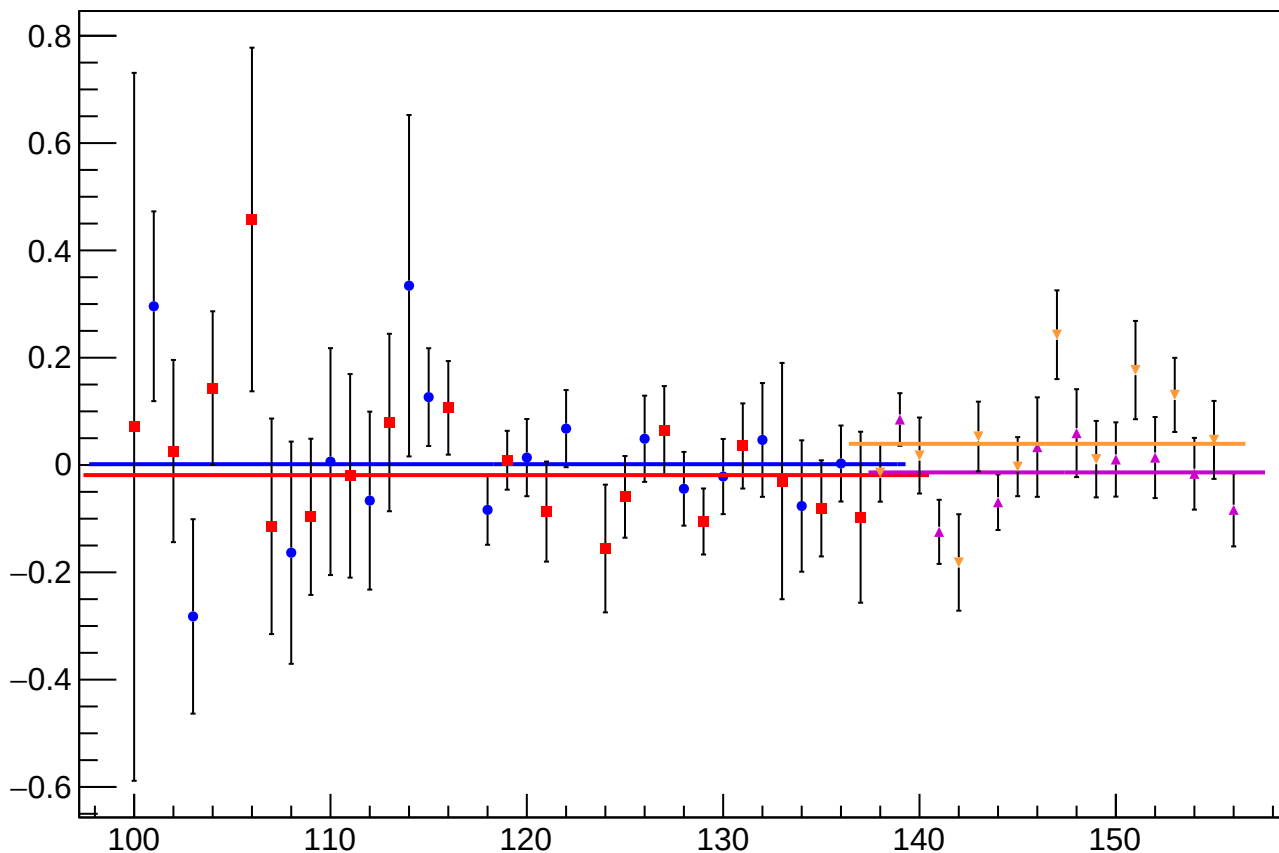
Right: 0.003+/-0.000 χ^2/NDF : 9804761.7/34

In: 0.003+/-0.000 χ^2/NDF : 6556486.3/24

Out: 0.003+/-0.000 χ^2/NDF : 5978096.4/28

All: 0.003+/-0.000 χ^2/NDF : 12538314.0/53

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: 0.040 $\pm$ 0.022 χ^2 /NDF:18.0/9

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: -0.014 $\pm$ 0.022 χ^2 /NDF:11.0/8

Left: 0.012 $\pm$ 0.015 χ^2 /NDF: 32.0/18

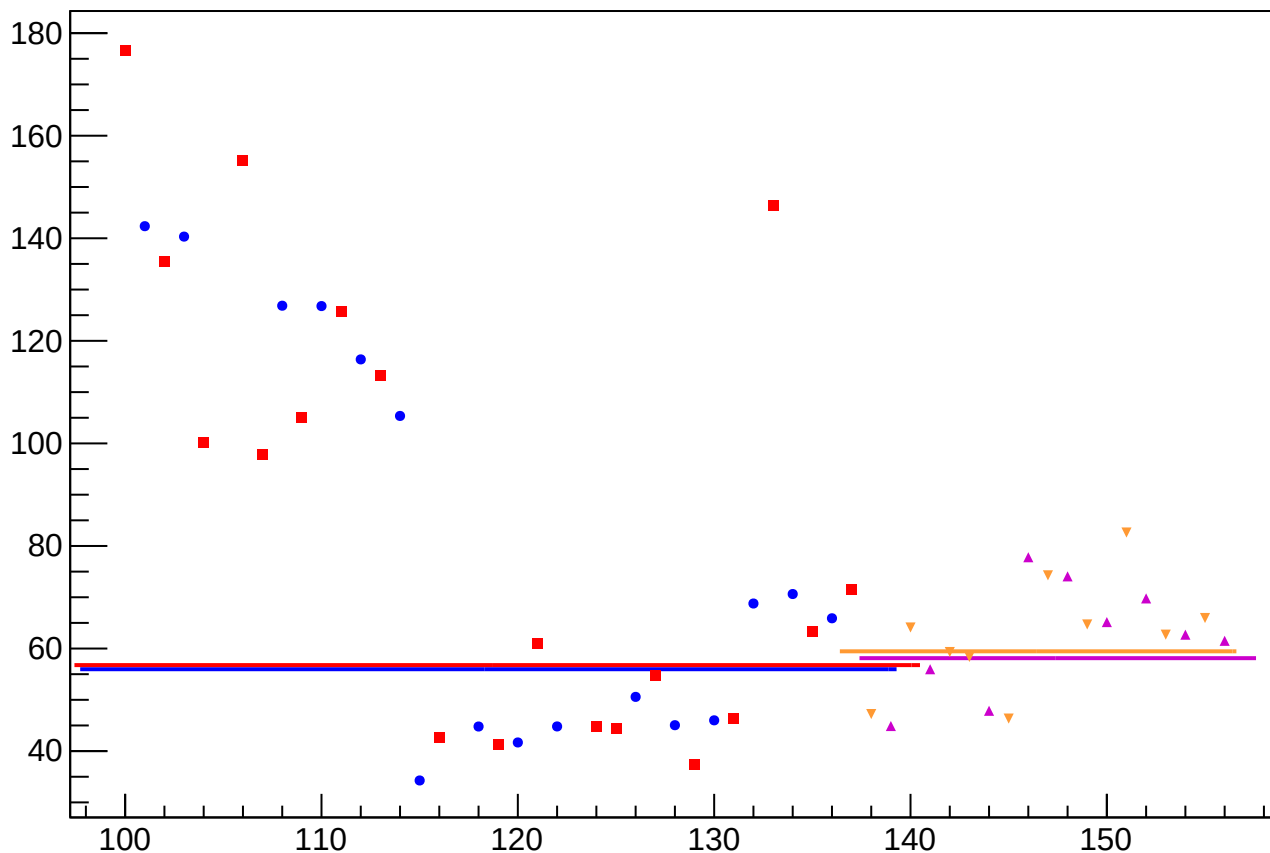
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: -0.007 $\pm$ 0.016 χ^2 /NDF:24.3/24

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:34.4/28

All: 0.003 $\pm$ 0.011 χ^2 /NDF: 59.4/53

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968+/-0.017 χ^2/NDF : 2179757.6/15

Left Out: 59.459+/-0.015 χ^2/NDF : 448505.0/9

Right Out: 56.770+/-0.017 χ^2/NDF : 2553168.3/18

Left In: 58.123+/-0.015 χ^2/NDF : 475283.2/8

Left: 58.781+/-0.011 χ^2/NDF : 927581.5/18

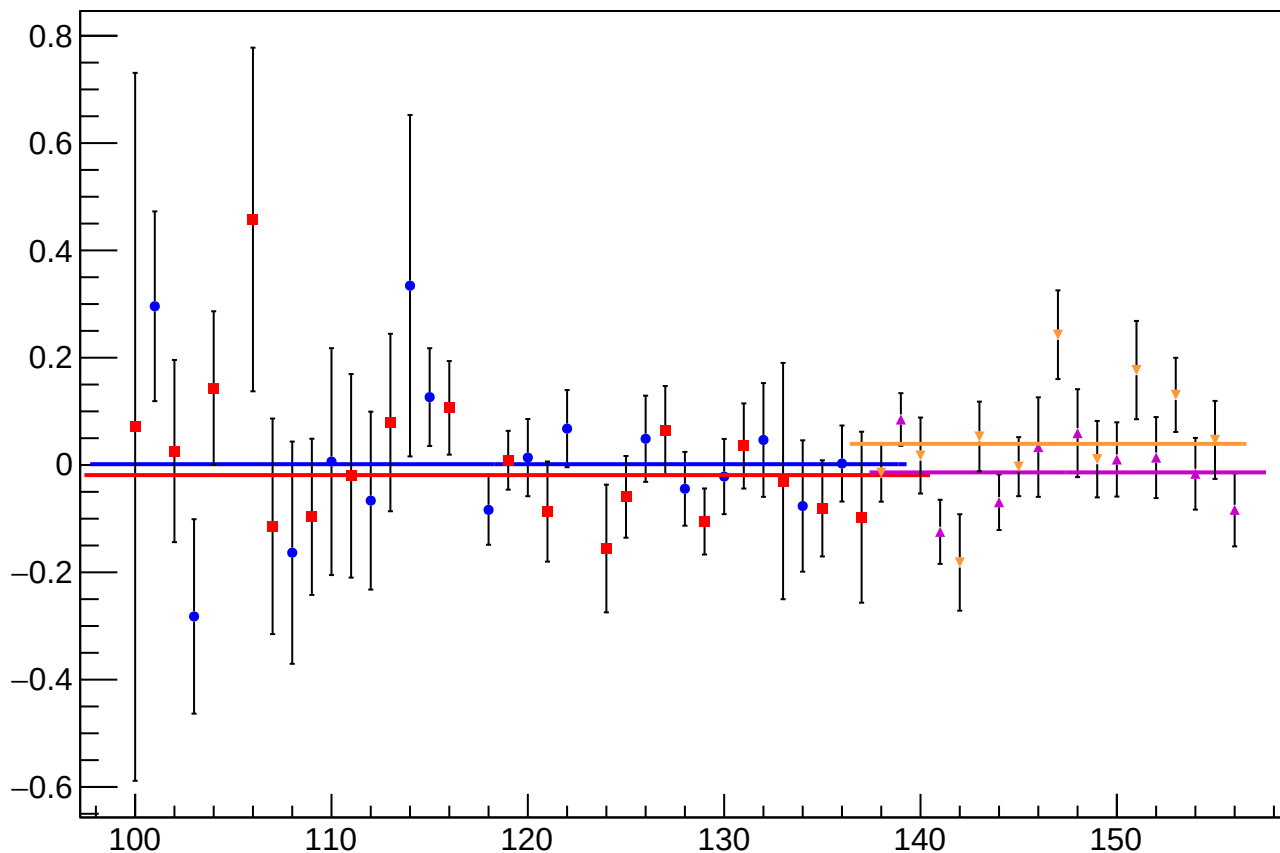
Right: 56.367+/-0.012 χ^2/NDF : 4734093.5/34

In: 57.136+/-0.011 χ^2/NDF : 2664219.8/24

Out: 58.213+/-0.011 χ^2/NDF : 3015707.6/28

All: 57.669+/-0.008 χ^2/NDF : 5684498.8/53

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: 0.040 $\pm$ 0.022 χ^2 /NDF:18.0/9

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: -0.014 $\pm$ 0.022 χ^2 /NDF:11.0/8

Left: 0.012 $\pm$ 0.015 χ^2 /NDF: 32.0/18

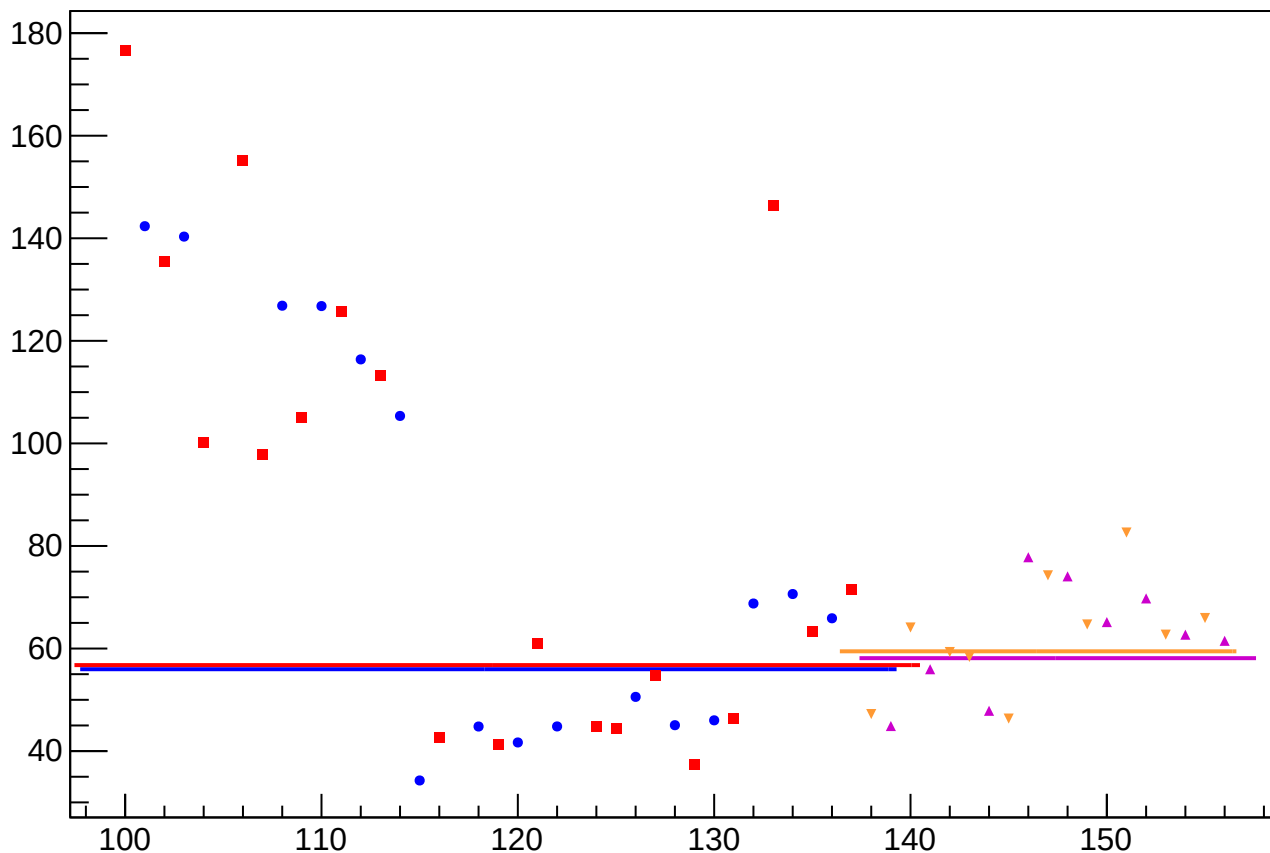
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: -0.007 $\pm$ 0.016 χ^2 /NDF:24.3/24

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:34.4/28

All: 0.003 $\pm$ 0.011 χ^2 /NDF: 59.4/53

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: 59.459+/-0.015 χ^2/NDF : 448505.0/9

Right Out: 56.770+/-0.017 χ^2/NDF : 2553168.3/18

Left In: 58.123+/-0.015 χ^2/NDF : 475283.2/8

Left: 58.781+/-0.011 χ^2/NDF : 927581.5/18

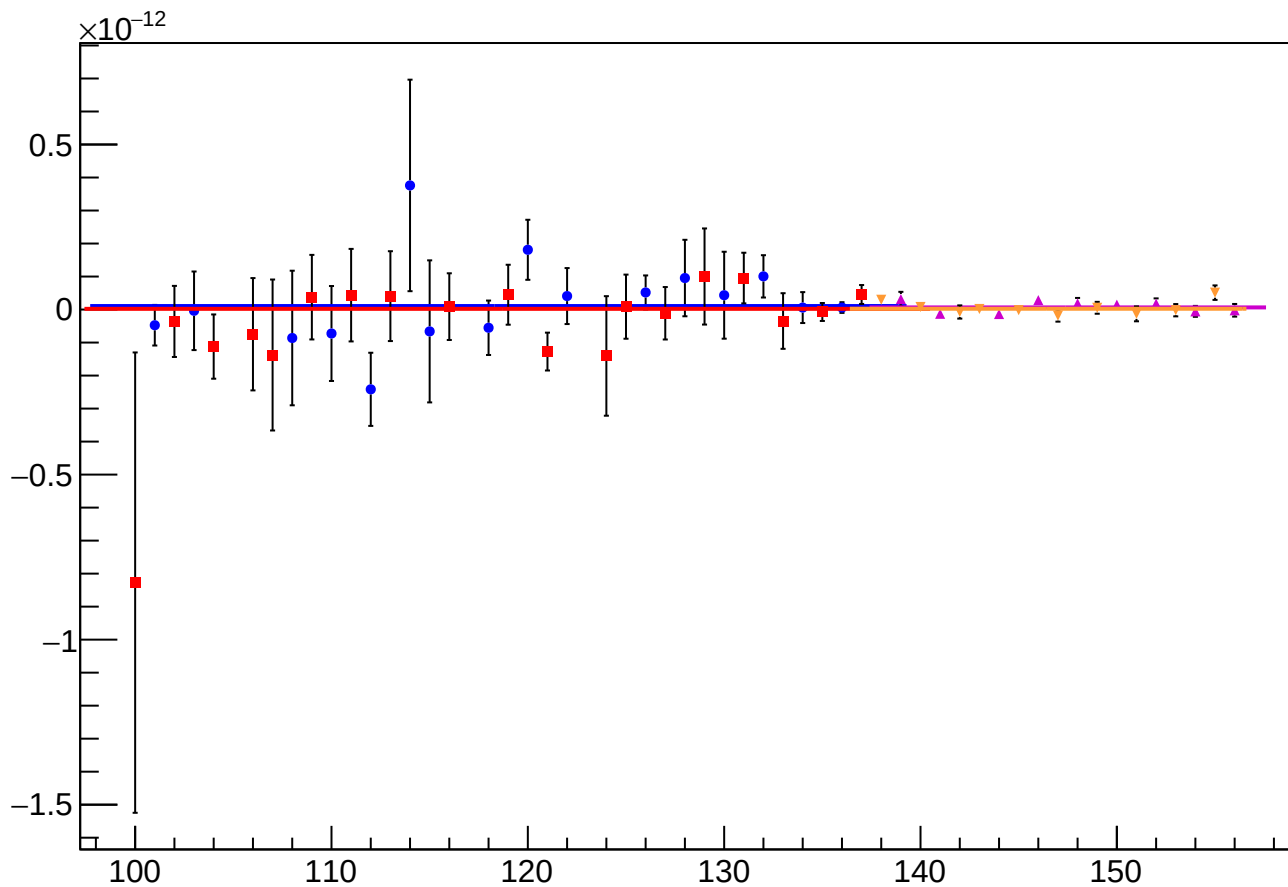
Right: 56.367+/-0.012 χ^2/NDF : 4734093.5/34

In: 57.136+/-0.011 χ^2/NDF : 2664219.8/24

Out: 58.213+/-0.011 χ^2/NDF : 3015707.6/28

All: 57.669+/-0.008 χ^2/NDF : 5684498.8/53

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 : 12.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 19.1/8

Left: 0.000+/-0.000 χ^2/NDF : 31.8/18

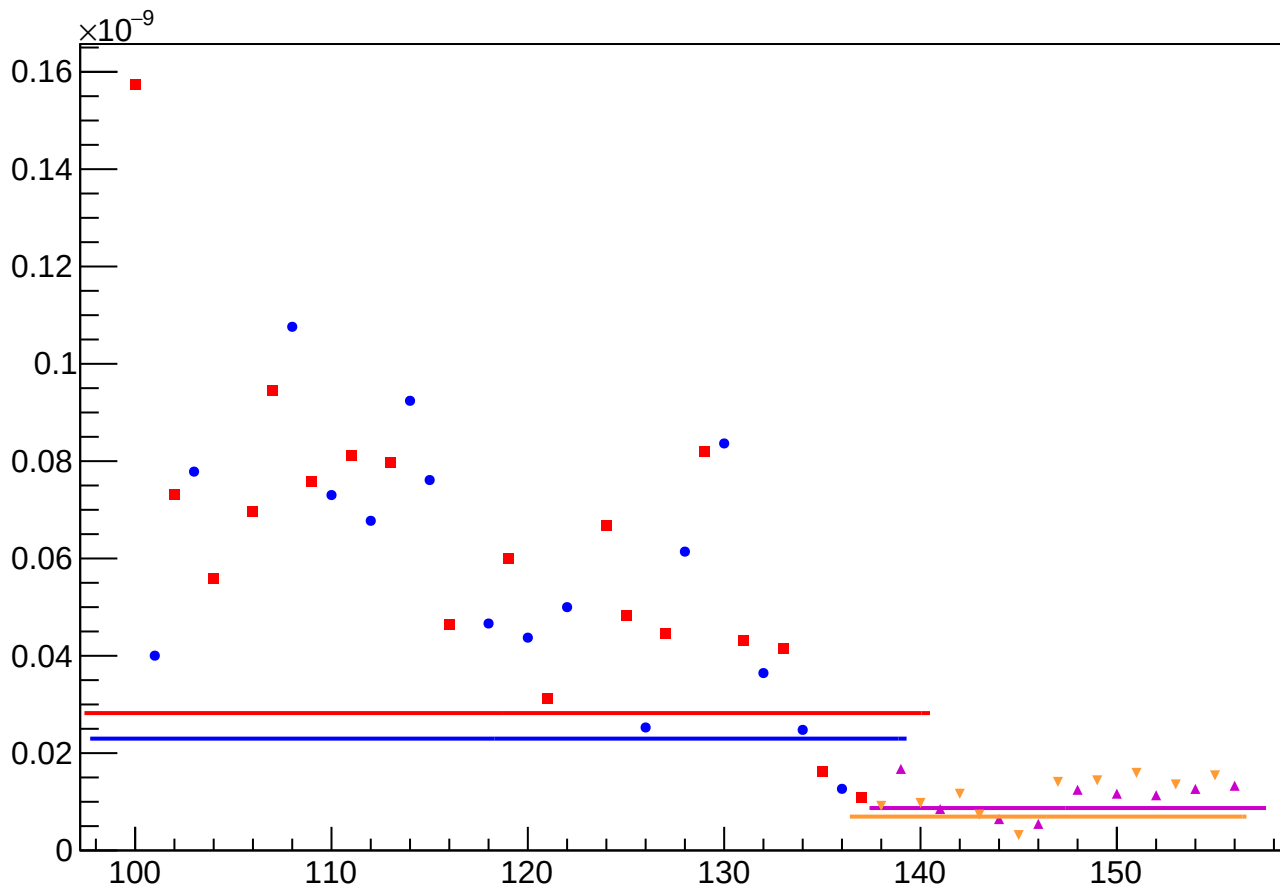
Right: 0.000+/-0.000 χ^2/NDF : 30.1/34

In: 0.000+/-0.000 χ^2/NDF : 34.8/24

Out: 0.000+/-0.000 χ^2/NDF : 26.4/28

All: 0.000+/-0.000 χ^2/NDF : 62.0/53

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 : 2912162.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3820523.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1184429.5/8

Left: 0.000+/-0.000 χ^2/NDF : 4299443.1/18

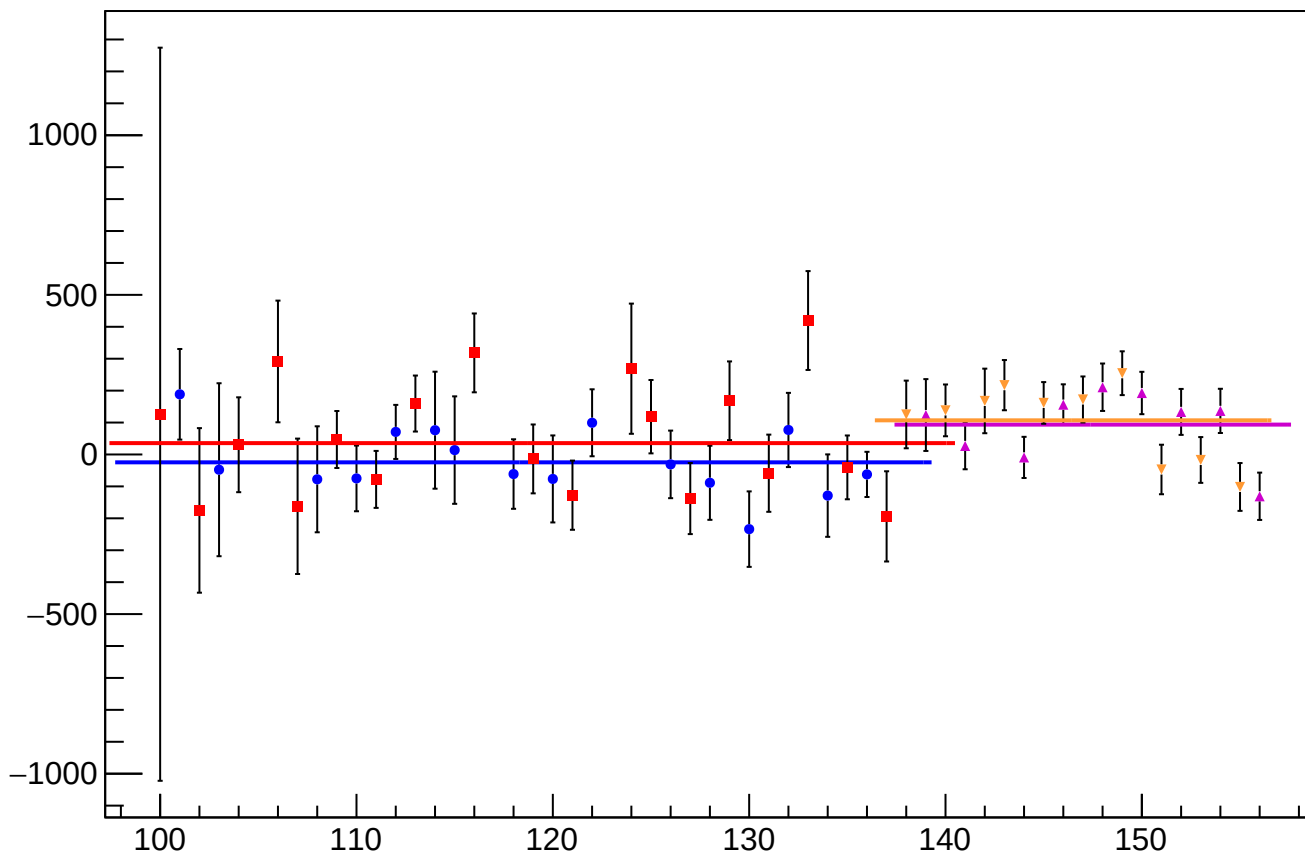
Right: 0.000+/-0.000 χ^2/NDF : 7687404.1/34

In: 0.000+/-0.000 χ^2/NDF : 7109078.5/24

Out: 0.000+/-0.000 χ^2/NDF : 10303340.2/28

All: 0.000+/-0.000 χ^2/NDF : 17695938.5/53

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: 106.956 ± 24.399 $\chi^2/\text{NDF}: 23.4/9$

Right Out: 35.582 ± 28.454 $\chi^2/\text{NDF}: 30.1/18$

Left In: 93.560 ± 23.939 $\chi^2/\text{NDF}: 19.0/8$

Left: 100.131 ± 17.088 $\chi^2/\text{NDF}: 42.5/18$

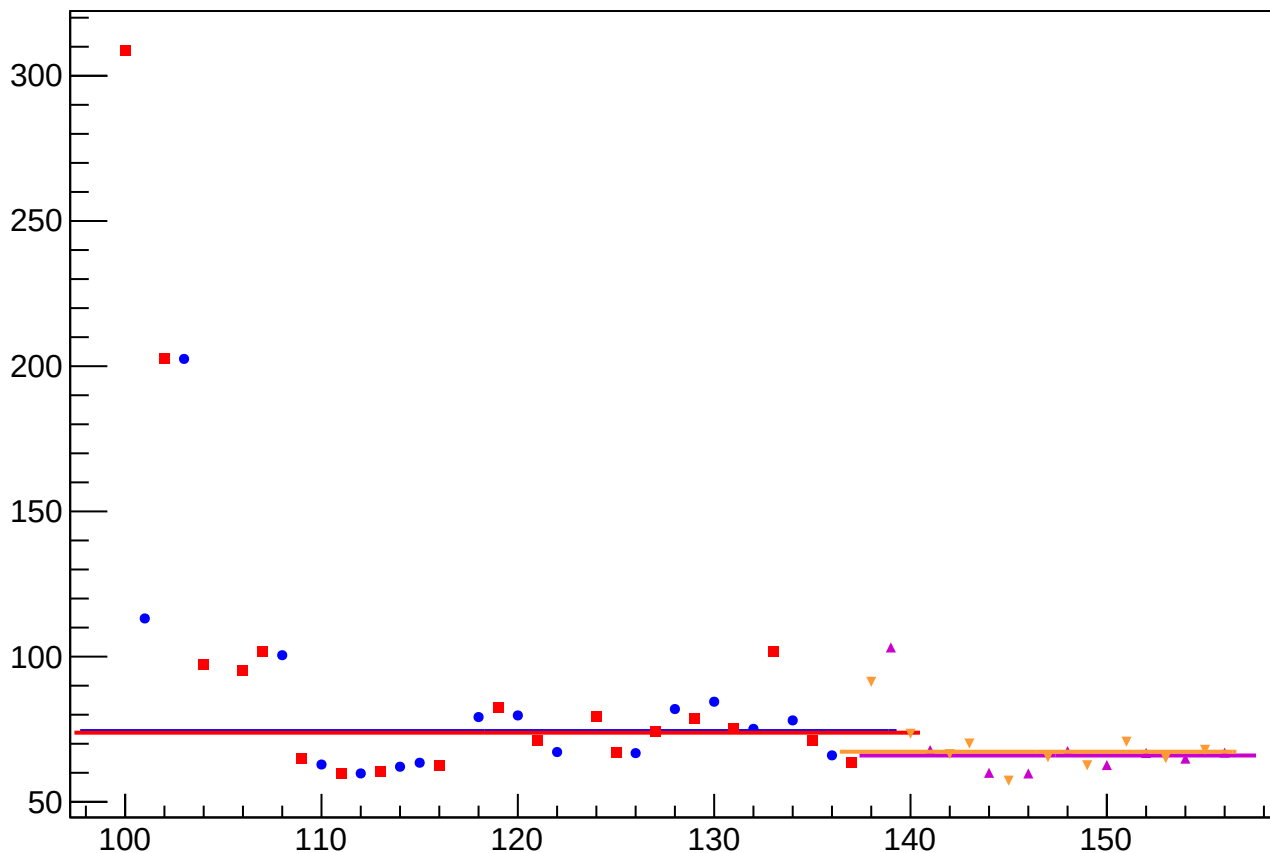
Right: 5.956 ± 20.280 $\chi^2/\text{NDF}: 43.3/34$

In: 45.488 ± 18.439 $\chi^2/\text{NDF}: 39.9/24$

Out: 76.713 ± 18.522 $\chi^2/\text{NDF}: 57.1/28$

All: 61.031 ± 13.068 $\chi^2/\text{NDF}: 98.4/53$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2/NDF : 827583.1/15

Left Out: 67.260+/-0.017 χ^2/NDF : 180896.2/9

Right Out: 73.815+/-0.020 χ^2/NDF : 931949.0/18

Left In: 65.957+/-0.017 χ^2/NDF : 262838.9/8

Left: 66.596+/-0.012 χ^2/NDF : 446640.9/18

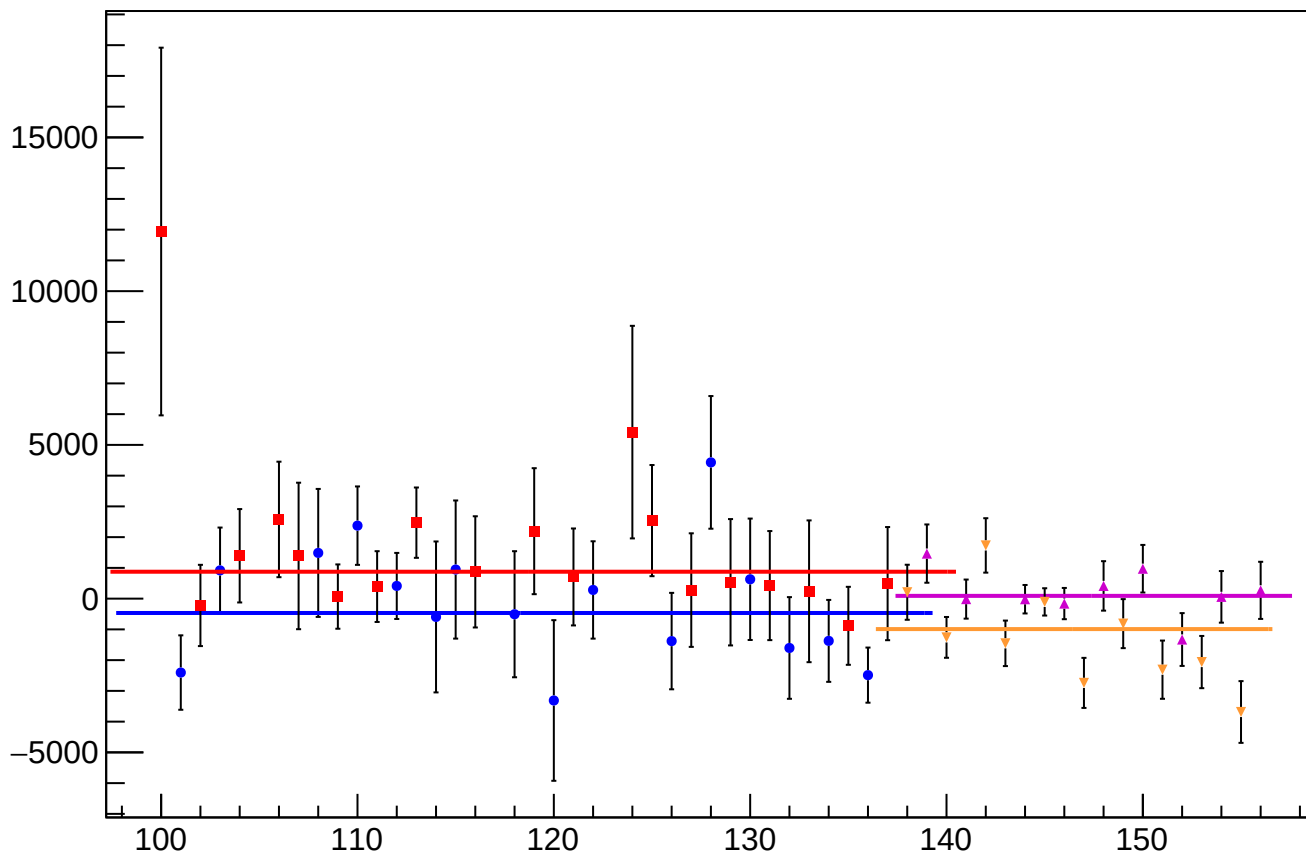
Right: 74.088+/-0.014 χ^2/NDF : 1759905.2/34

In: 69.379+/-0.013 χ^2/NDF : 1190851.8/24

Out: 70.038+/-0.013 χ^2/NDF : 1174003.5/28

All: 69.707+/-0.009 χ^2/NDF : 2366126.9/53

asym_sam_37_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -466.524 $\pm$ 375.030 χ^2 /NDF: 23.7/15

Left Out: -990.202 $\pm$ 233.927 χ^2 /NDF:31.2/9

Right Out: 875.351 $\pm$ 372.239 χ^2 /NDF: 13.1/18

Left In: 90.261 $\pm$ 227.771 χ^2 /NDF:6.7/8

Left: -435.567 $\pm$ 163.192 χ^2 /NDF: 48.8/18

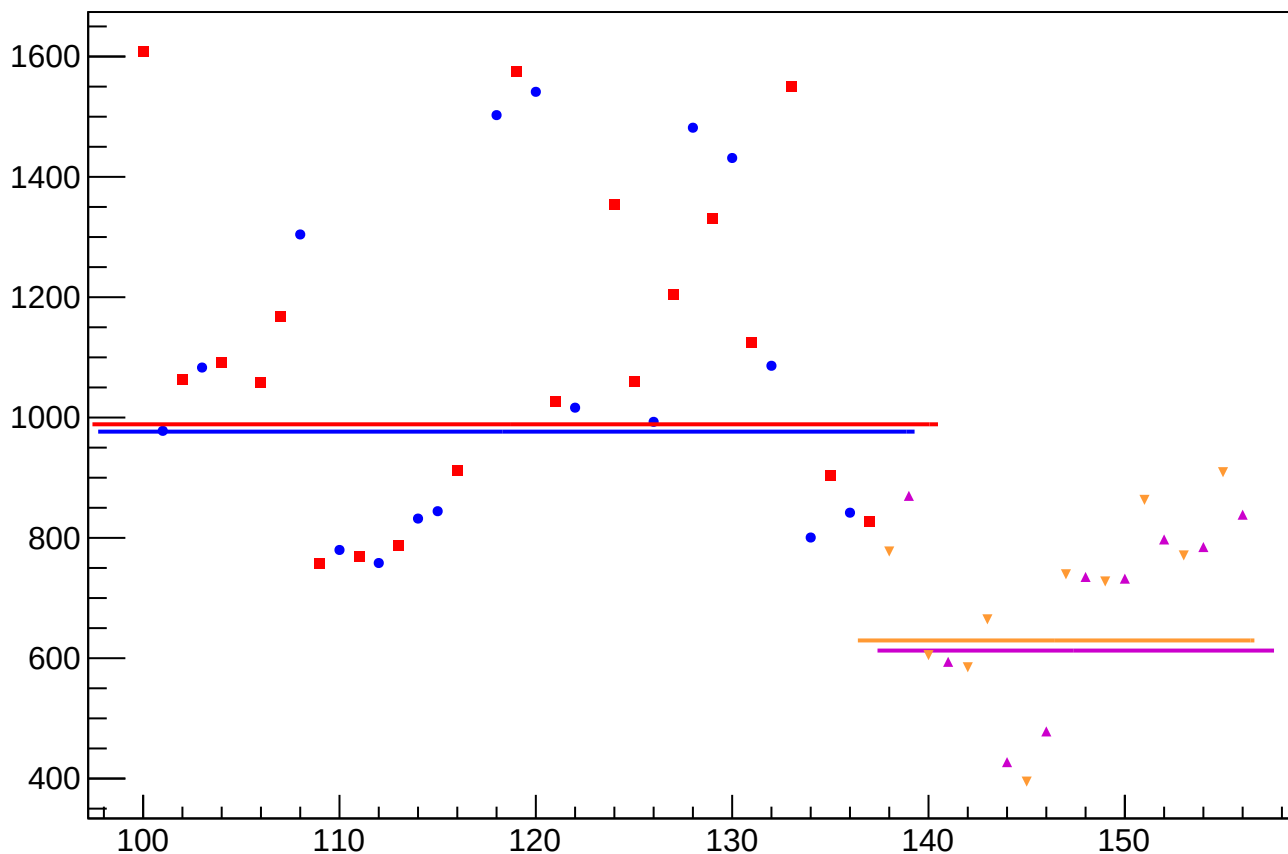
Right: 209.426 $\pm$ 264.194 χ^2 /NDF: 43.2/34

In: -59.774 $\pm$ 194.679 χ^2 /NDF:32.0/24

Out: -462.031 $\pm$ 198.064 χ^2 /NDF:62.3/28

All: -257.436 $\pm$ 138.840 χ^2 /NDF: 96.3/53

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: 629.519 $\pm$ 0.165 χ^2 /NDF:1024476.6/9

Right Out: 988.763 $\pm$ 0.263 χ^2 /NDF: 715703.4/18

Left In: 612.707 $\pm$ 0.161 χ^2 /NDF:998249.0/8

Left: 620.889 $\pm$ 0.115 χ^2 /NDF: 2028028.2/18

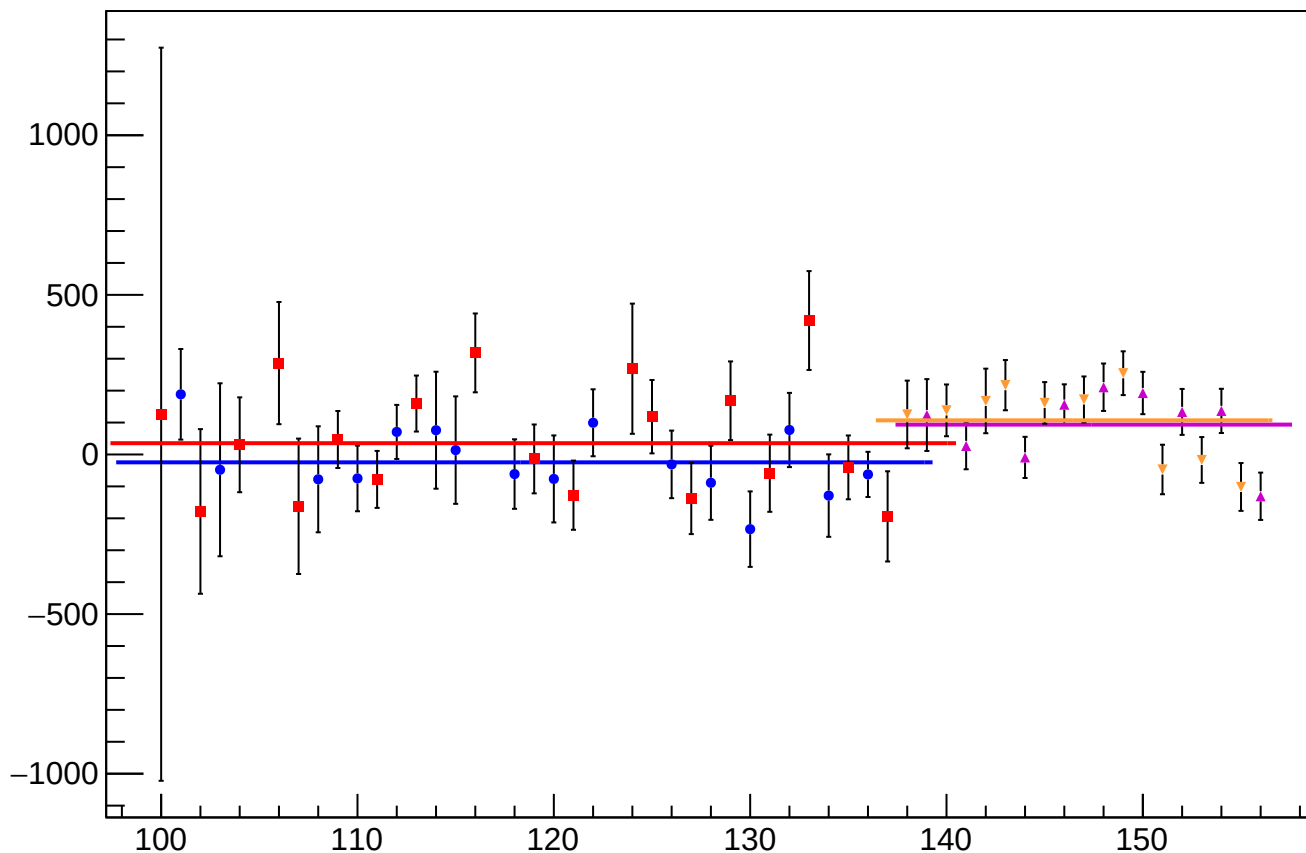
Right: 982.718 $\pm$ 0.187 χ^2 /NDF: 1453371.3/34

In: 710.759 $\pm$ 0.138 χ^2 /NDF:3110300.6/24

Out: 731.227 $\pm$ 0.140 χ^2 /NDF:3075591.7/28

All: 720.817 $\pm$ 0.098 χ^2 /NDF: 6196755.2/53

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: 106.960 ± 24.399 $\chi^2/\text{NDF}: 23.4/9$

Right Out: 35.383 ± 28.457 $\chi^2/\text{NDF}: 30.0/18$

Left In: 93.561 ± 23.939 $\chi^2/\text{NDF}: 19.0/8$

Left: 100.133 ± 17.088 $\chi^2/\text{NDF}: 42.5/18$

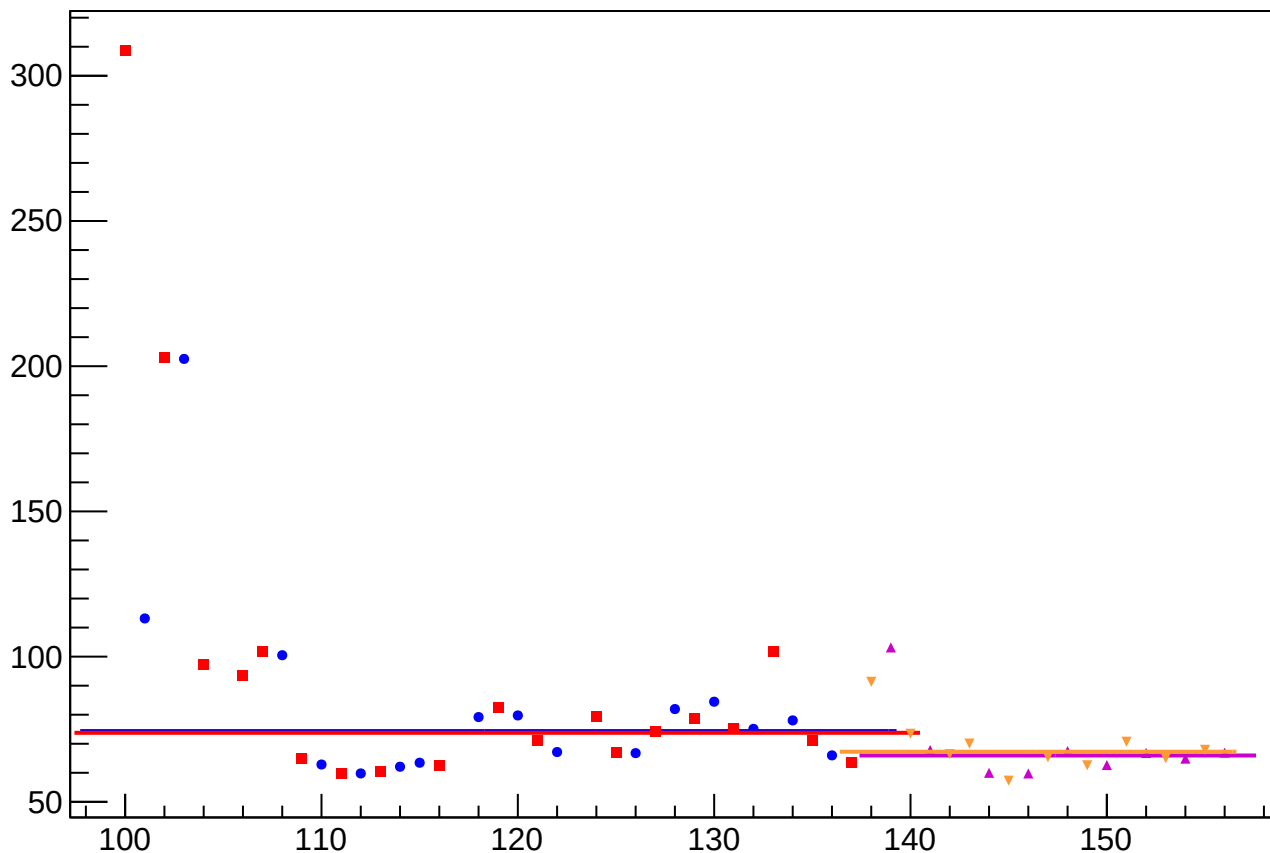
Right: 5.848 ± 20.281 $\chi^2/\text{NDF}: 43.2/34$

In: 45.485 ± 18.439 $\chi^2/\text{NDF}: 39.9/24$

Out: 76.635 ± 18.523 $\chi^2/\text{NDF}: 57.0/28$

All: 60.989 ± 13.068 $\chi^2/\text{NDF}: 98.4/53$

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: 67.260 $\pm$ 0.017 χ^2 /NDF: 180896.2/9

Right Out: 73.773 $\pm$ 0.020 χ^2 /NDF: 928163.8/18

Left In: 65.957 $\pm$ 0.017 χ^2 /NDF: 262838.9/8

Left: 66.596 $\pm$ 0.012 χ^2 /NDF: 446640.9/18

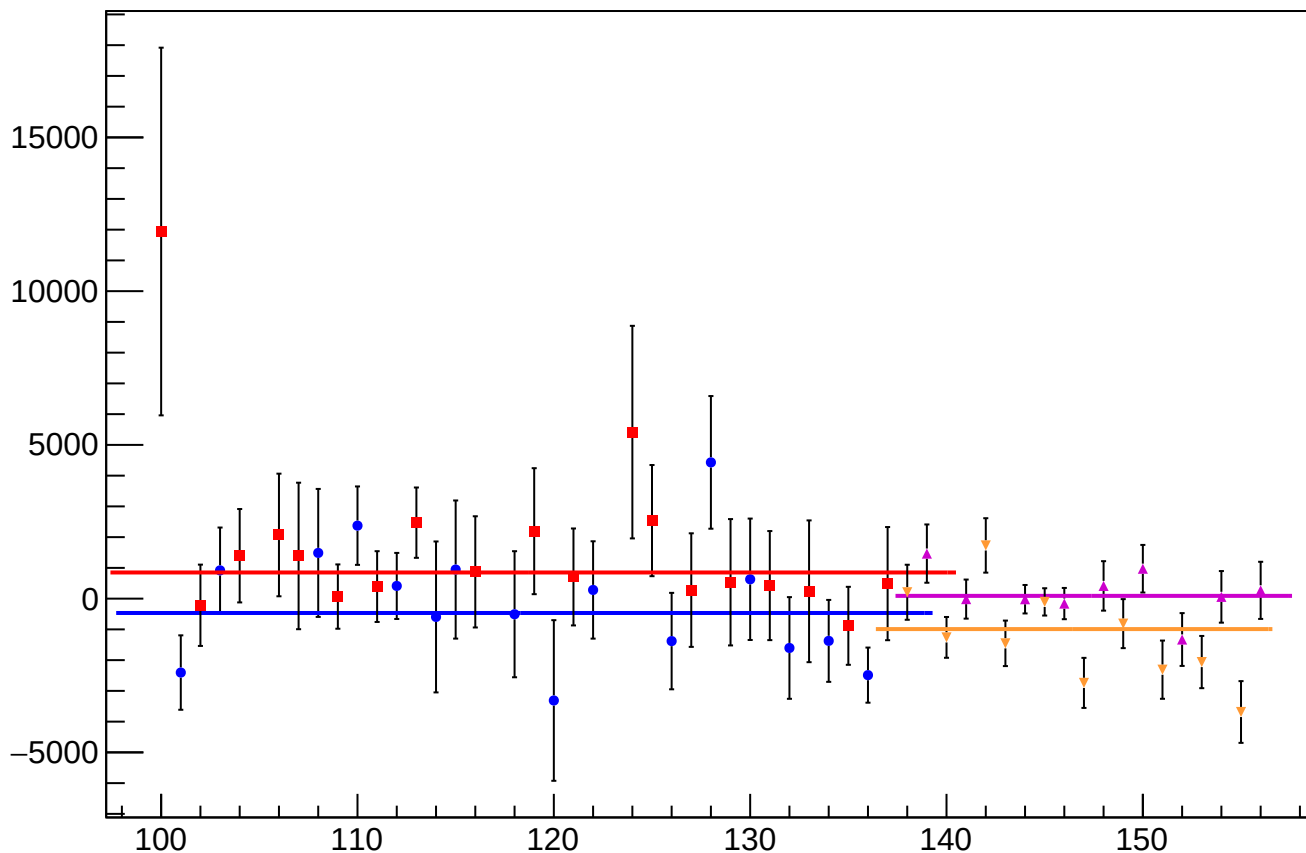
Right: 74.066 $\pm$ 0.014 χ^2 /NDF: 1756180.6/34

In: 69.379 $\pm$ 0.013 χ^2 /NDF: 1190853.7/24

Out: 70.020 $\pm$ 0.013 χ^2 /NDF: 1169432.6/28

All: 69.698 $\pm$ 0.009 χ^2 /NDF: 2361489.2/53

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: -990.196+/-233.927 χ^2/NDF :31.2/9

Right Out: 850.757+/-373.092 χ^2/NDF : 12.6/18

Left In: 90.263+/-227.771 χ^2/NDF :6.7/8

Left: -435.563+/-163.192 χ^2/NDF : 48.8/18

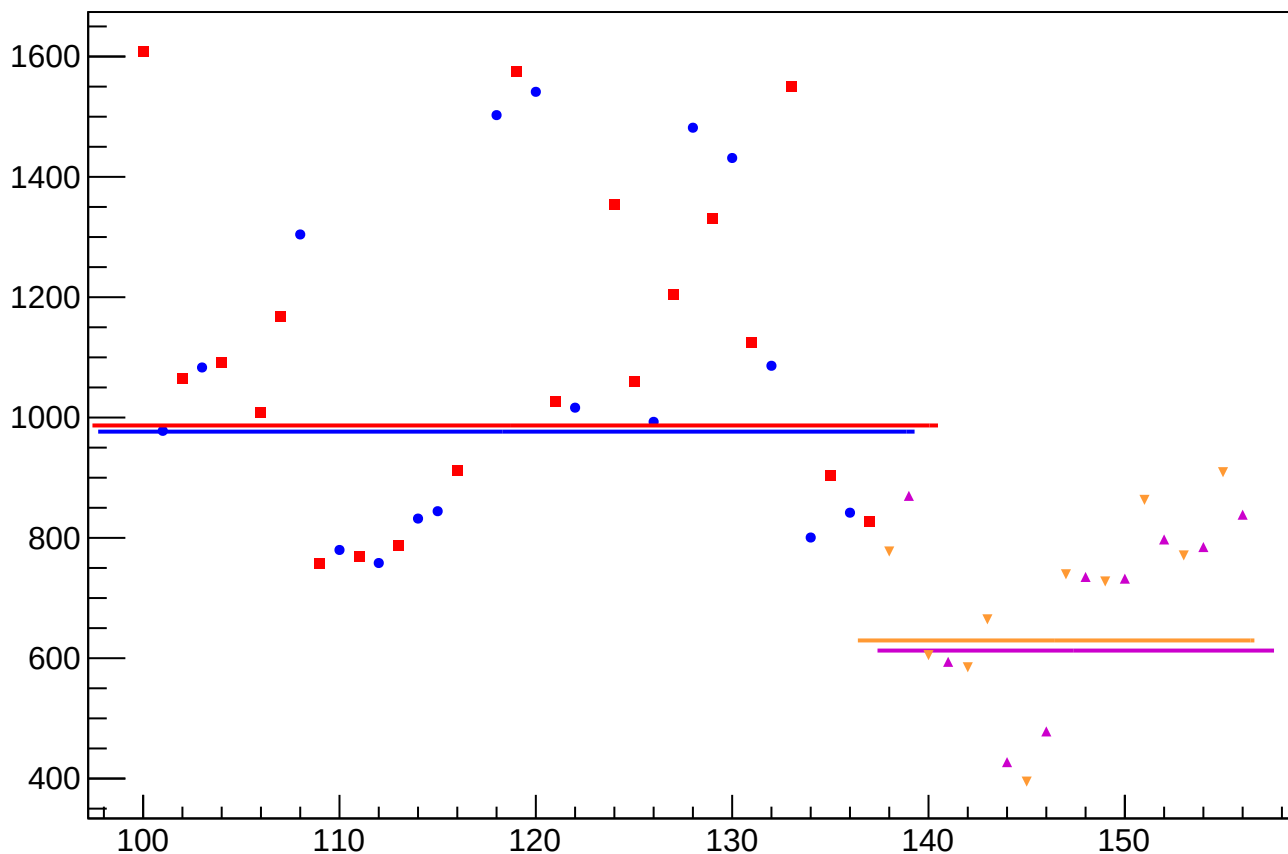
Right: 195.541+/-264.500 χ^2/NDF : 42.5/34

In: -59.767+/-194.679 χ^2/NDF :32.0/24

Out: -470.700+/-198.192 χ^2/NDF :61.3/28

All: -261.560+/-138.884 χ^2/NDF : 95.4/53

asym_sam_37_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589 $\pm$ 0.265 χ^2 /NDF: 736628.5/15

Left Out: 629.518 $\pm$ 0.165 χ^2 /NDF:1024476.7/9

Right Out: 986.823 $\pm$ 0.264 χ^2 /NDF: 713316.0/18

Left In: 612.707 $\pm$ 0.161 χ^2 /NDF:998250.0/8

Left: 620.889 $\pm$ 0.115 χ^2 /NDF: 2028029.2/18

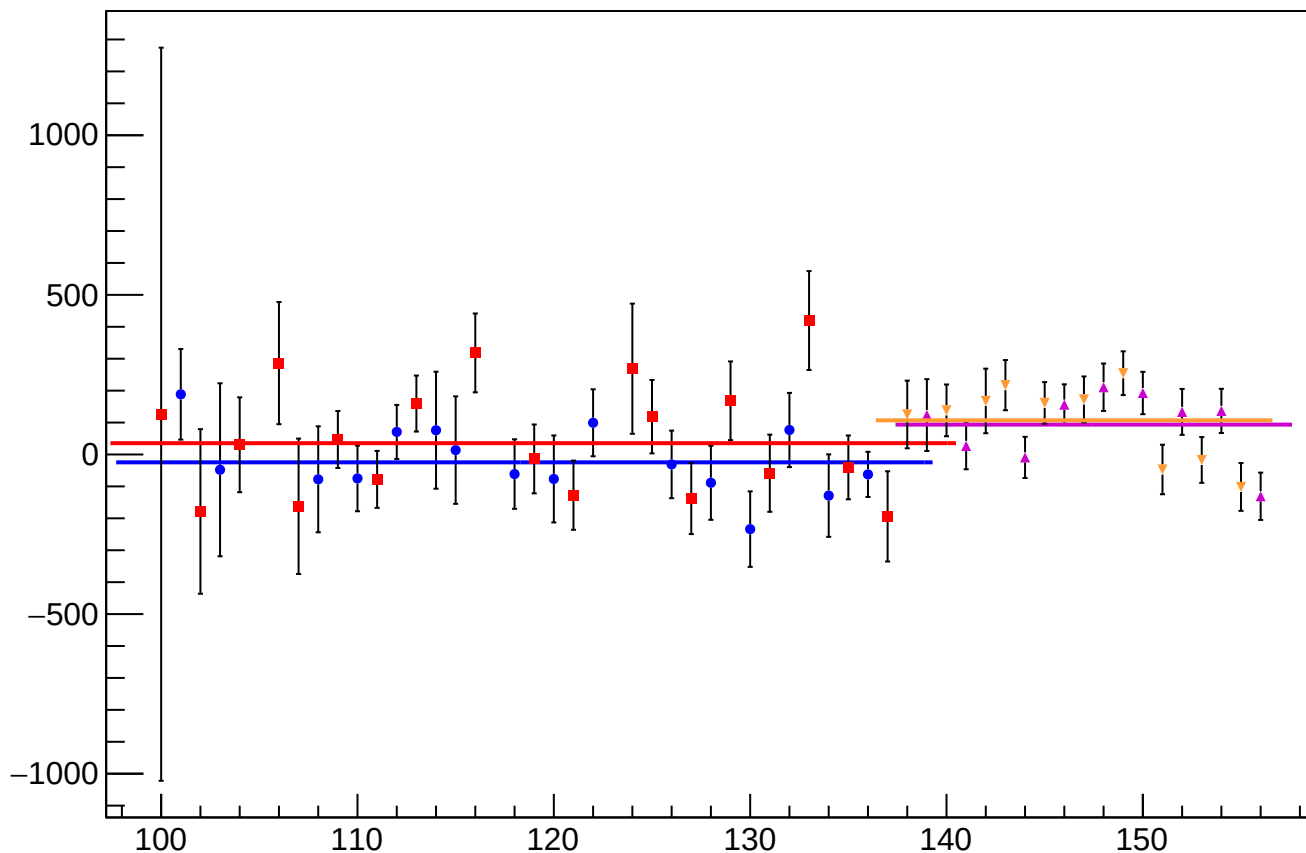
Right: 981.733 $\pm$ 0.187 χ^2 /NDF: 1450693.2/34

In: 710.760 $\pm$ 0.138 χ^2 /NDF:3110355.7/24

Out: 730.346 $\pm$ 0.140 χ^2 /NDF:3054490.3/28

All: 720.378 $\pm$ 0.098 χ^2 /NDF: 6174786.7/53

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: 106.960 ± 24.399 $\chi^2/\text{NDF}: 23.4/9$

Right Out: 35.383 ± 28.457 $\chi^2/\text{NDF}: 30.0/18$

Left In: 93.561 ± 23.939 $\chi^2/\text{NDF}: 19.0/8$

Left: 100.133 ± 17.088 $\chi^2/\text{NDF}: 42.5/18$

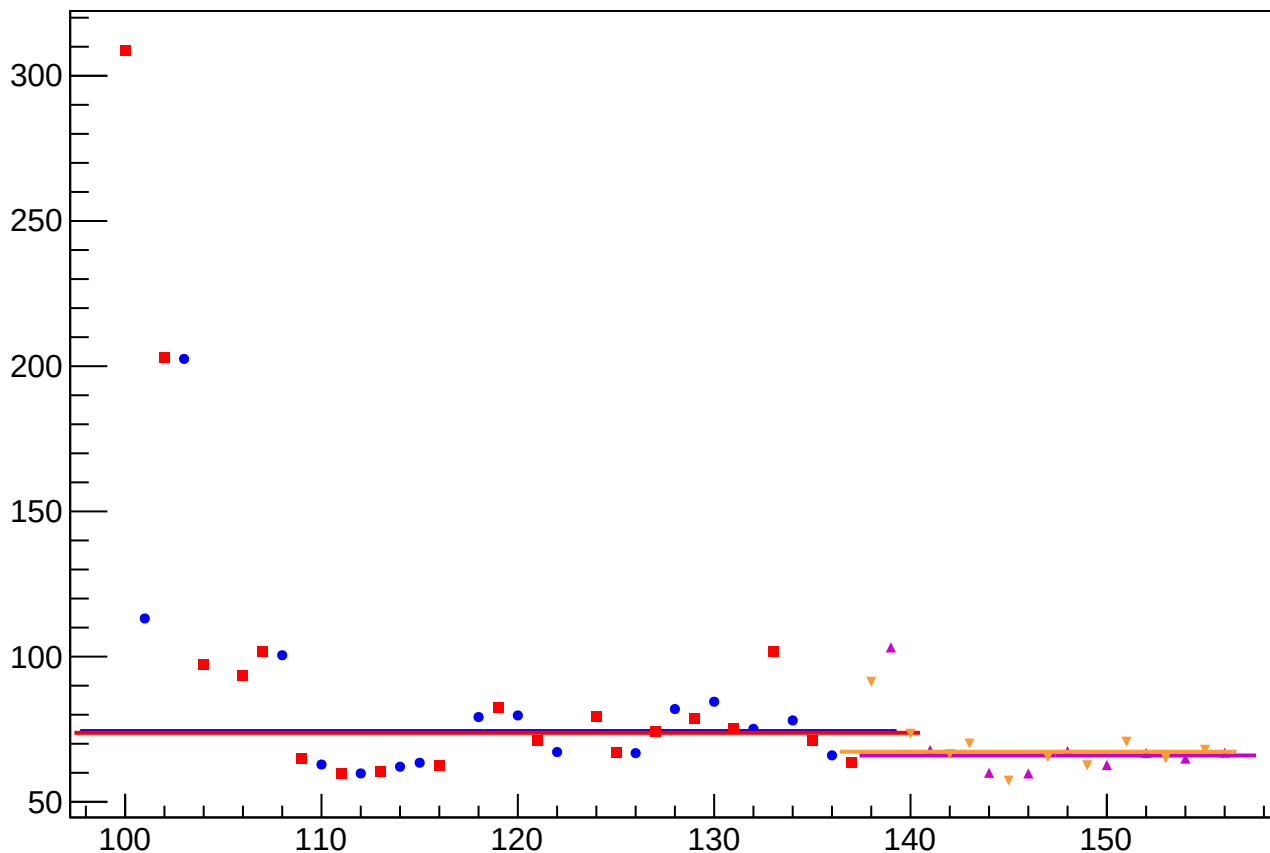
Right: 5.848 ± 20.281 $\chi^2/\text{NDF}: 43.2/34$

In: 45.485 ± 18.439 $\chi^2/\text{NDF}: 39.9/24$

Out: 76.635 ± 18.523 $\chi^2/\text{NDF}: 57.0/28$

All: 60.989 ± 13.068 $\chi^2/\text{NDF}: 98.4/53$

eigen_cor_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2/NDF : 827585.2/15

Left Out: 67.260+/-0.017 χ^2/NDF : 180896.2/9

Right Out: 73.773+/-0.020 χ^2/NDF : 928163.8/18

Left In: 65.957+/-0.017 χ^2/NDF : 262838.9/8

Left: 66.596+/-0.012 χ^2/NDF : 446640.9/18

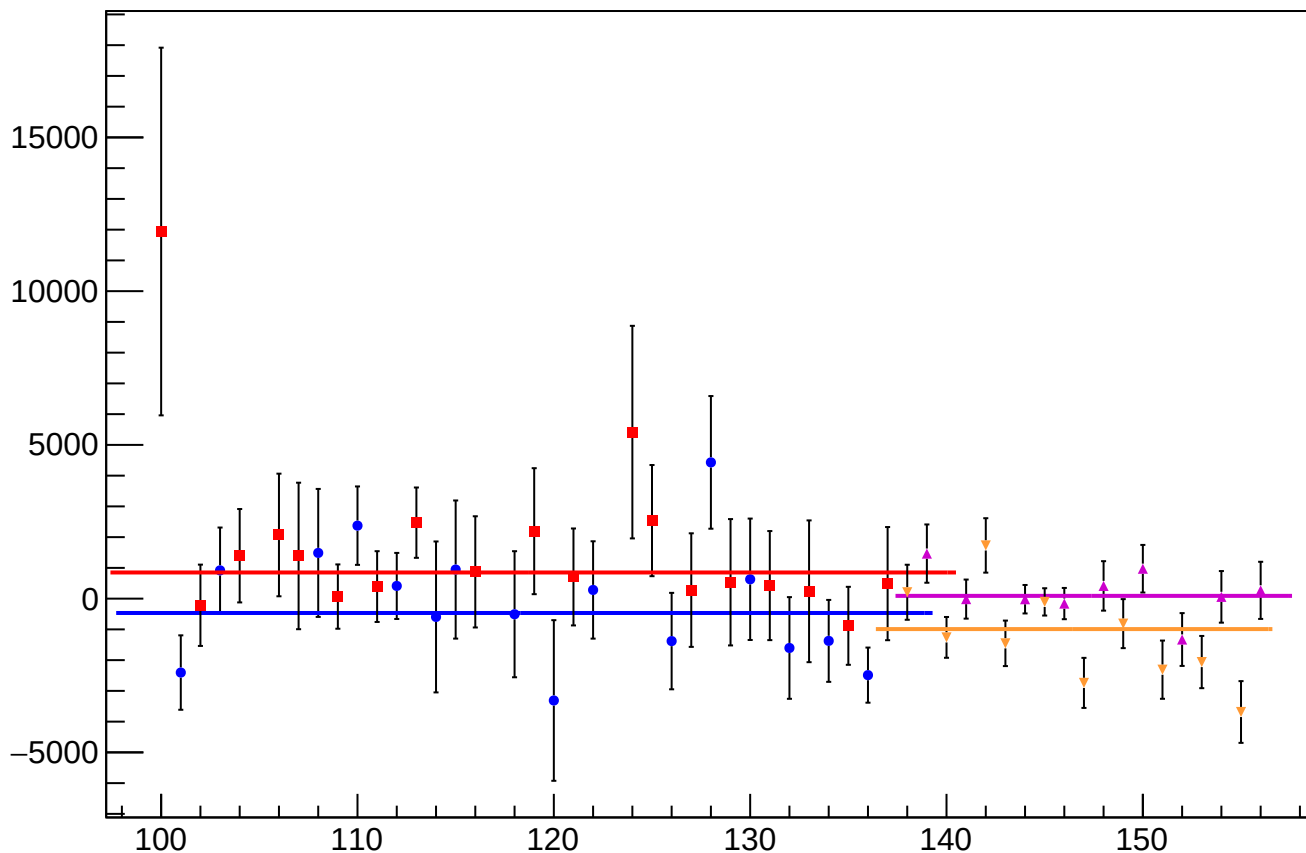
Right: 74.066+/-0.014 χ^2/NDF : 1756180.6/34

In: 69.379+/-0.013 χ^2/NDF : 1190853.7/24

Out: 70.020+/-0.013 χ^2/NDF : 1169432.6/28

All: 69.698+/-0.009 χ^2/NDF : 2361489.2/53

asym_sam_37_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -466.511+/-375.033 χ^2/NDF : 23.7/15

Left Out: -990.196+/-233.927 χ^2/NDF :31.2/9

Right Out: 850.757+/-373.092 χ^2/NDF : 12.6/18

Left In: 90.263+/-227.771 χ^2/NDF :6.7/8

Left: -435.563+/-163.192 χ^2/NDF : 48.8/18

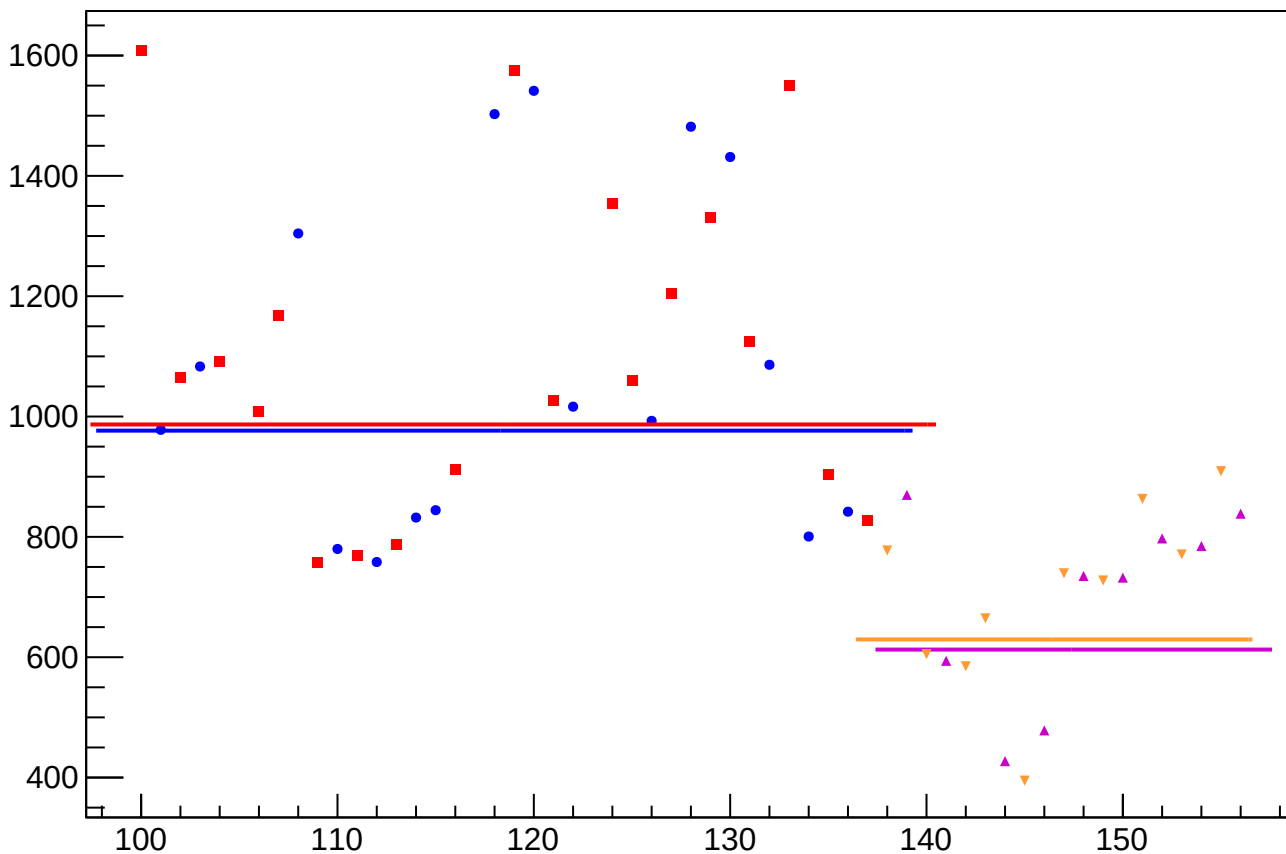
Right: 195.541+/-264.500 χ^2/NDF : 42.5/34

In: -59.767+/-194.679 χ^2/NDF :32.0/24

Out: -470.700+/-198.192 χ^2/NDF :61.3/28

All: -261.560+/-138.884 χ^2/NDF : 95.4/53

asym_sam_37_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589 $\pm$ 0.265 χ^2 /NDF: 736628.5/15

Left Out: 629.518 $\pm$ 0.165 χ^2 /NDF:1024476.7/9

Right Out: 986.823 $\pm$ 0.264 χ^2 /NDF: 713316.0/18

Left In: 612.707 $\pm$ 0.161 χ^2 /NDF:998250.0/8

Left: 620.889 $\pm$ 0.115 χ^2 /NDF: 2028029.2/18

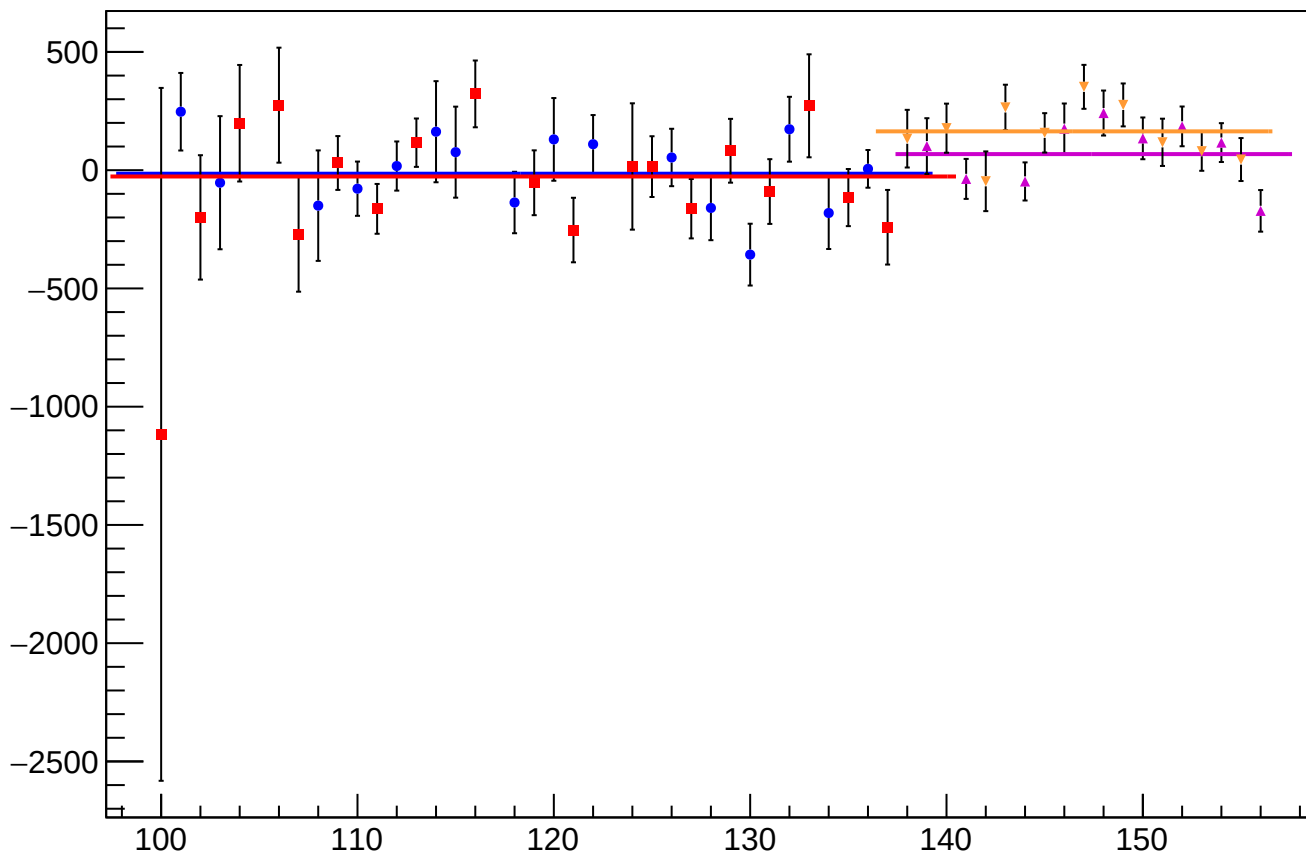
Right: 981.733 $\pm$ 0.187 χ^2 /NDF: 1450693.2/34

In: 710.760 $\pm$ 0.138 χ^2 /NDF:3110355.7/24

Out: 730.346 $\pm$ 0.140 χ^2 /NDF:3054490.3/28

All: 720.378 $\pm$ 0.098 χ^2 /NDF: 6174786.7/53

dit_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -14.953 $\pm$ 33.761 χ^2/NDF : 18.3/15

Left Out: 164.169 $\pm$ 30.423 χ^2/NDF :12.6/9

Right Out: -26.654 $\pm$ 34.073 χ^2/NDF : 23.6/18

Left In: 67.999 $\pm$ 29.985 χ^2/NDF :18.3/8

Left: 115.386 $\pm$ 21.356 χ^2/NDF : 36.0/18

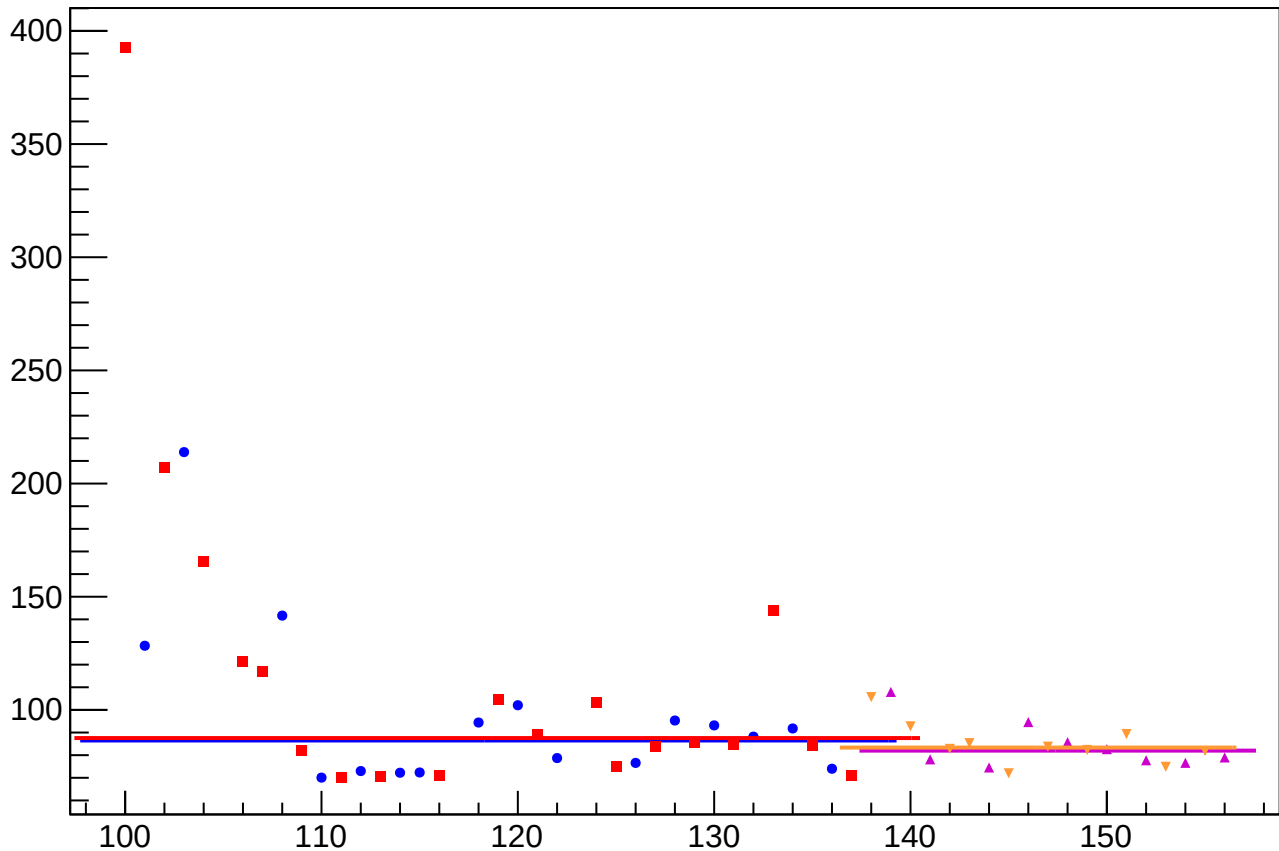
Right: -20.750 $\pm$ 23.982 χ^2/NDF : 41.9/34

In: 31.420 $\pm$ 22.419 χ^2/NDF :40.0/24

Out: 79.522 $\pm$ 22.693 χ^2/NDF :53.6/28

All: 55.179 $\pm$ 15.949 χ^2/NDF : 95.9/53

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: 83.352 $\pm$ 0.022 χ^2 /NDF: 150573.3/9

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129794.0/18

Left In: 82.008 $\pm$ 0.021 χ^2 /NDF: 165396.0/8

Left: 82.670 $\pm$ 0.015 χ^2 /NDF: 317947.2/18

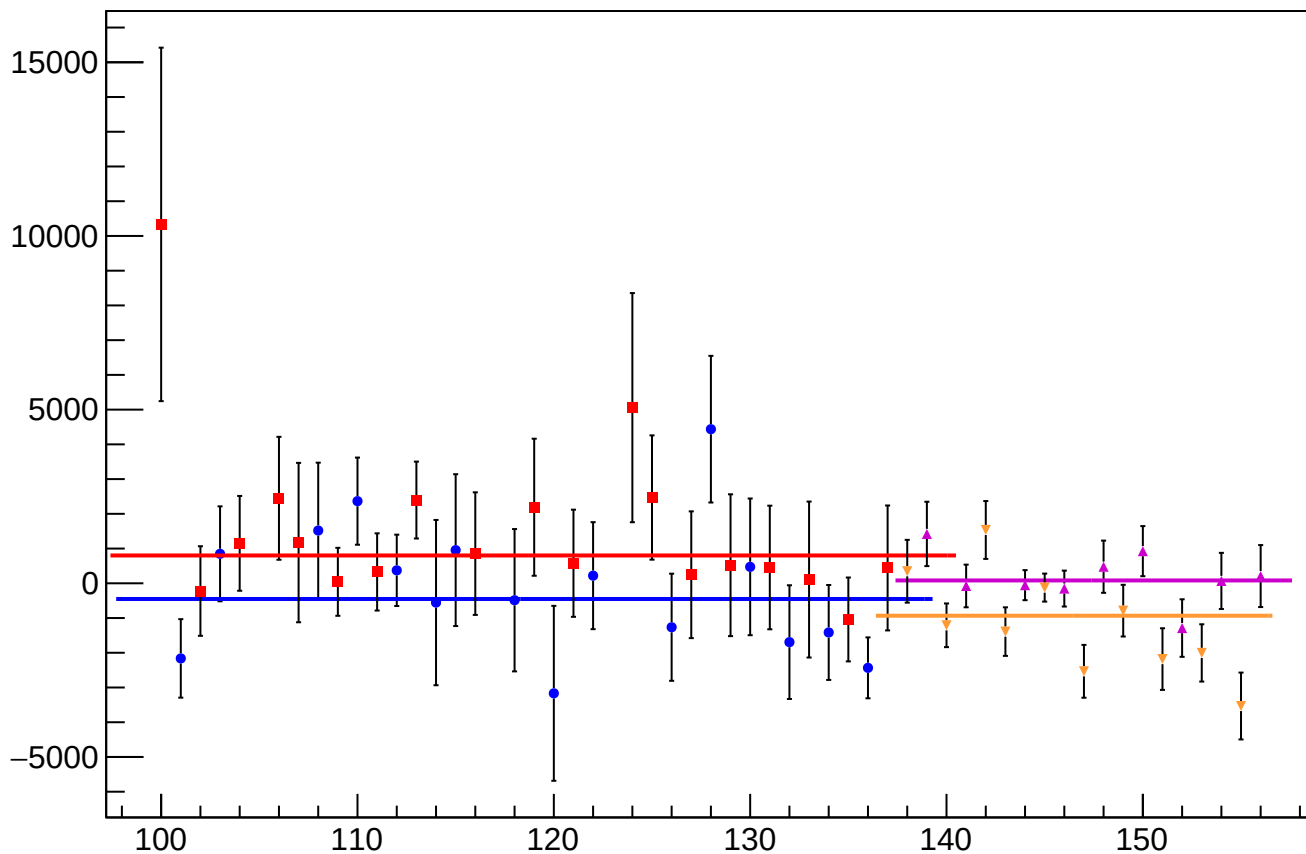
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987038.9/34

In: 83.984 $\pm$ 0.016 χ^2 /NDF: 1041346.5/24

Out: 85.216 $\pm$ 0.016 χ^2 /NDF: 1297298.5/28

All: 84.593 $\pm$ 0.011 χ^2 /NDF: 2341627.4/53

asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.380 $\pm$ 365.605 χ^2 /NDF: 23.7/15

Left Out: -933.275 $\pm$ 219.533 χ^2 /NDF:30.9/9

Right Out: 801.206 $\pm$ 357.866 χ^2 /NDF: 13.6/18

Left In: 82.123 $\pm$ 219.061 χ^2 /NDF:6.9/8

Left: -424.483 $\pm$ 155.066 χ^2 /NDF: 48.5/18

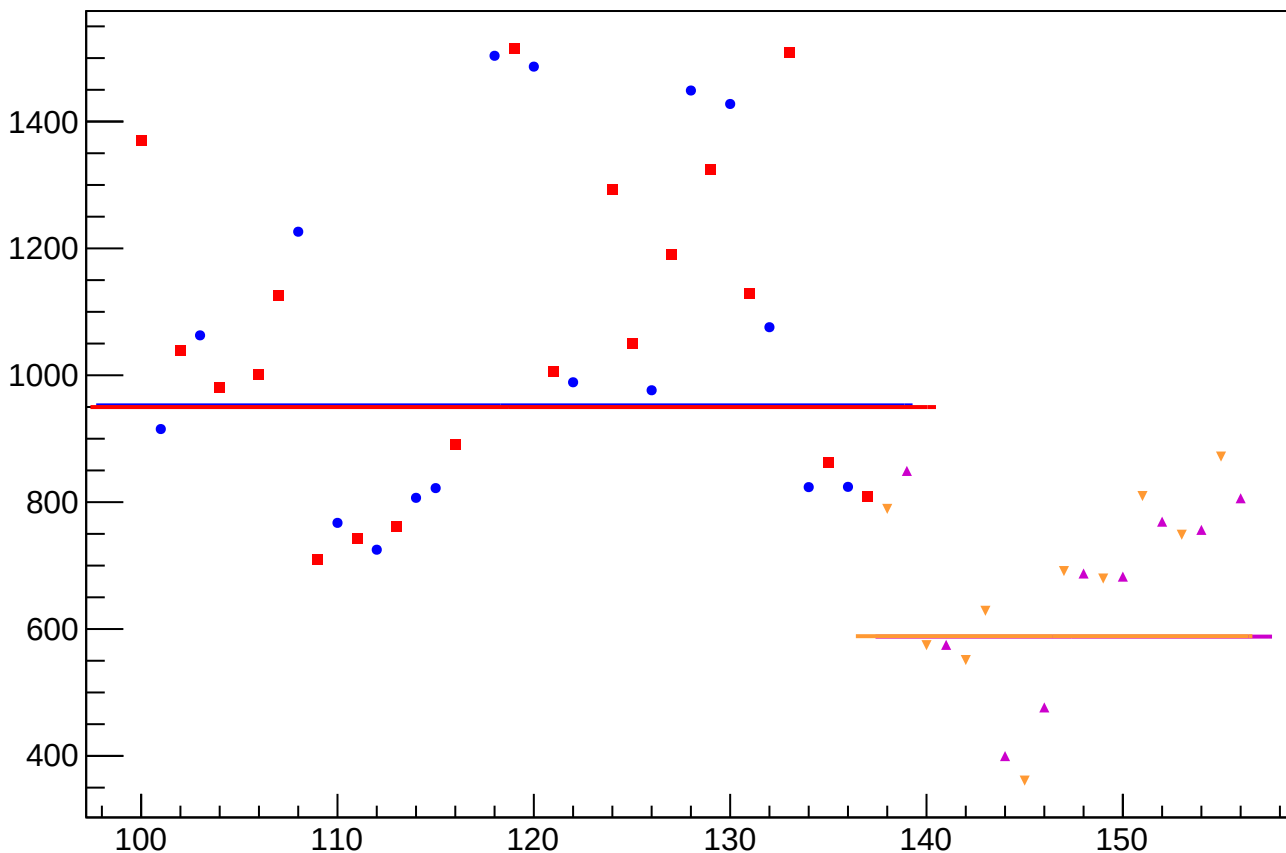
Right: 188.311 $\pm$ 255.742 χ^2 /NDF: 43.3/34

In: -58.812 $\pm$ 187.912 χ^2 /NDF:32.2/24

Out: -459.023 $\pm$ 187.129 χ^2 /NDF:61.6/28

All: -259.753 $\pm$ 132.596 χ^2 /NDF: 96.0/53

asym_sam_37_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.551 $\pm$ 0.259 χ^2 /NDF: 746346.9/15

Left Out: 588.715 $\pm$ 0.155 χ^2 /NDF: 1186305.6/9

Right Out: 949.891 $\pm$ 0.253 χ^2 /NDF: 751675.2/18

Left In: 588.049 $\pm$ 0.155 χ^2 /NDF: 1003444.0/8

Left: 588.381 $\pm$ 0.110 χ^2 /NDF: 2189758.8/18

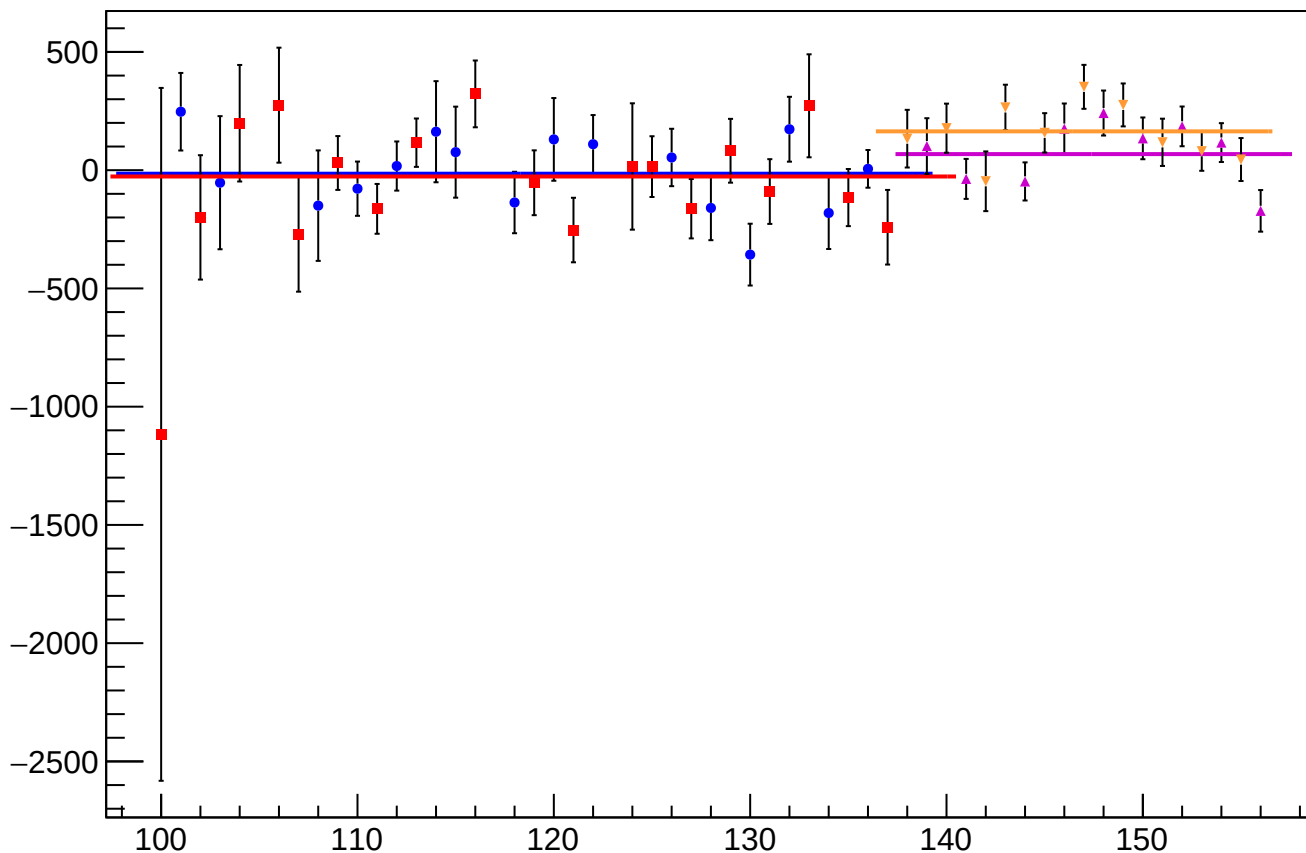
Right: 951.193 $\pm$ 0.181 χ^2 /NDF: 1498076.1/34

In: 684.339 $\pm$ 0.133 χ^2 /NDF: 3212584.0/24

Out: 687.470 $\pm$ 0.132 χ^2 /NDF: 3418143.0/28

All: 685.911 $\pm$ 0.094 χ^2 /NDF: 6631005.7/53

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: 164.170 ± 30.423 χ^2/NDF : 12.6/9

Right Out: -26.658 ± 34.073 χ^2/NDF : 23.6/18

Left In: 68.000 ± 29.985 χ^2/NDF : 18.3/8

Left: 115.387 ± 21.356 χ^2/NDF : 36.0/18

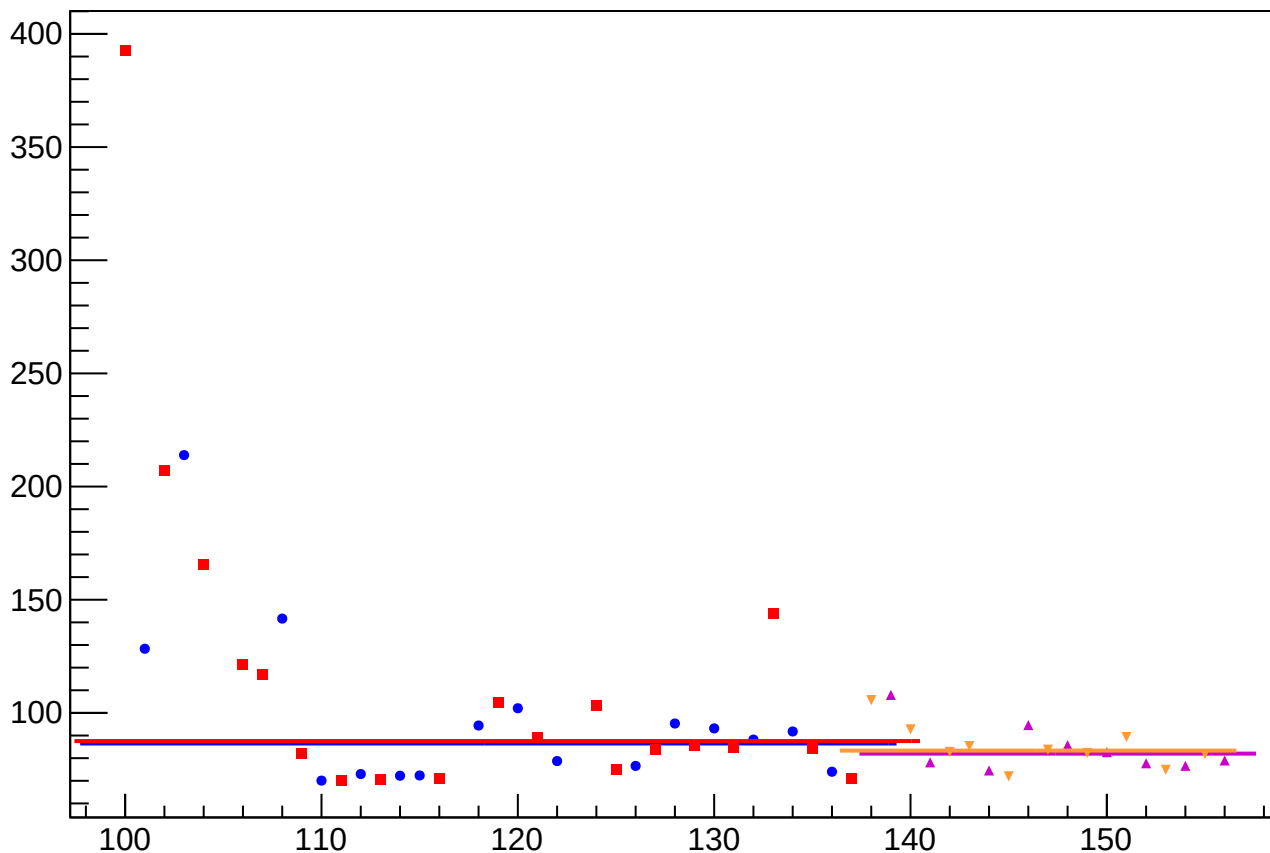
Right: -20.752 ± 23.982 χ^2/NDF : 41.9/34

In: 31.420 ± 22.419 χ^2/NDF : 40.0/24

Out: 79.522 ± 22.693 χ^2/NDF : 53.6/28

All: 55.178 ± 15.949 χ^2/NDF : 95.9/53

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: 83.352 $\pm$ 0.022 χ^2 /NDF:150570.5/9

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129791.7/18

Left In: 82.009 $\pm$ 0.021 χ^2 /NDF:165389.8/8

Left: 82.671 $\pm$ 0.015 χ^2 /NDF: 317938.4/18

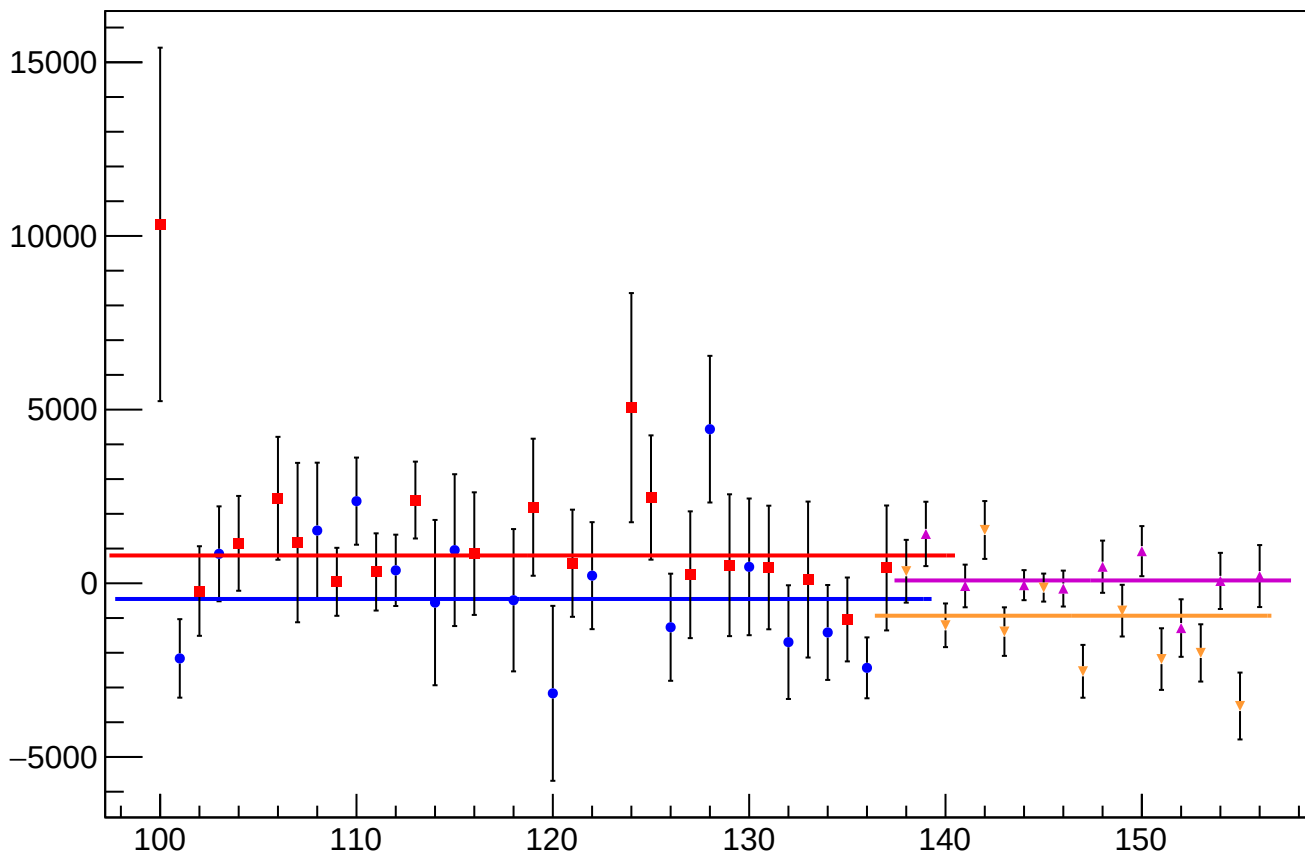
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987028.5/34

In: 83.985 $\pm$ 0.016 χ^2 /NDF:1041331.1/24

Out: 85.217 $\pm$ 0.016 χ^2 /NDF:1297292.8/28

All: 84.593 $\pm$ 0.011 χ^2 /NDF: 2341606.7/53

asym_sam_37_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.378 $\pm$ 365.605 χ^2 /NDF: 23.7/15

Left Out: -933.276 $\pm$ 219.533 χ^2 /NDF:30.9/9

Right Out: 801.205 $\pm$ 357.865 χ^2 /NDF: 13.6/18

Left In: 82.123 $\pm$ 219.061 χ^2 /NDF:6.9/8

Left: -424.484 $\pm$ 155.066 χ^2 /NDF: 48.5/18

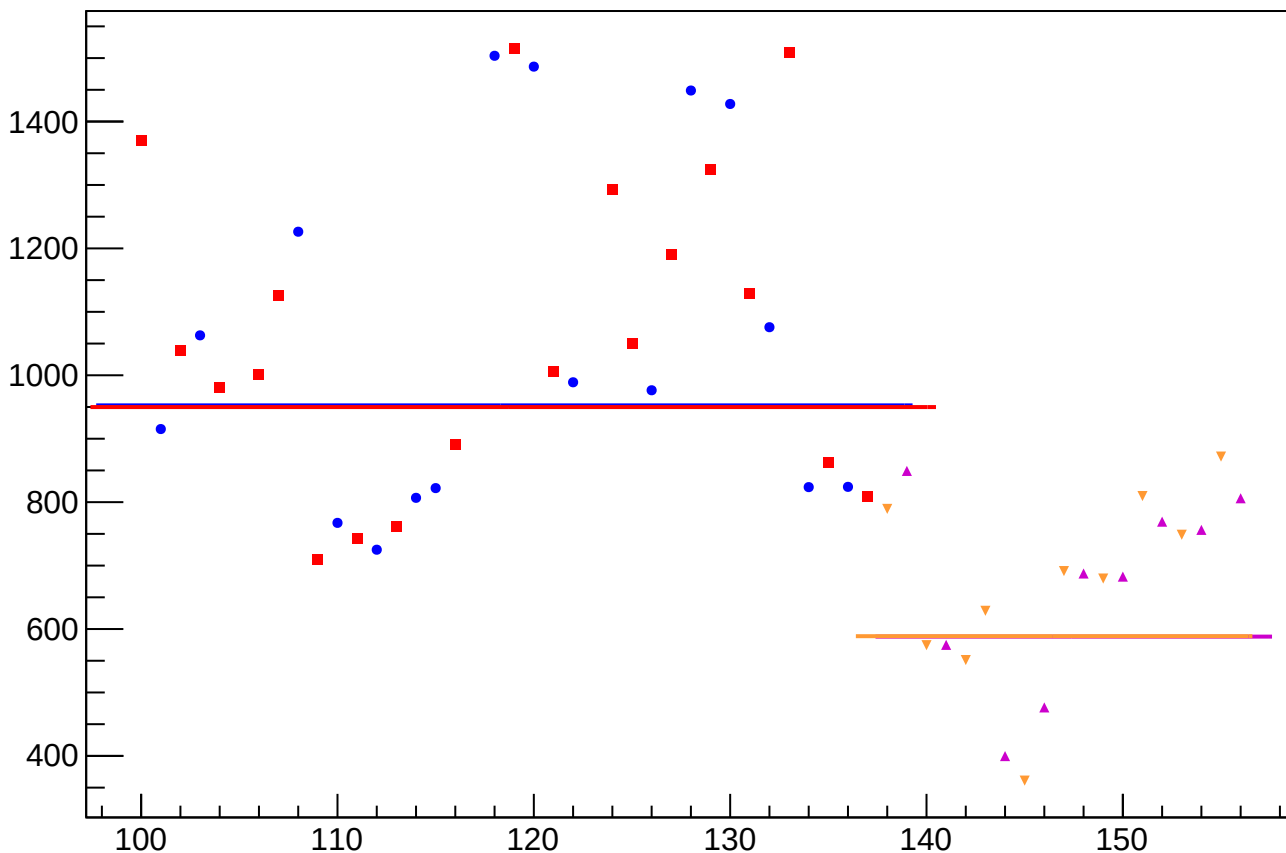
Right: 188.312 $\pm$ 255.741 χ^2 /NDF: 43.3/34

In: -58.812 $\pm$ 187.912 χ^2 /NDF:32.2/24

Out: -459.023 $\pm$ 187.128 χ^2 /NDF:61.6/28

All: -259.753 $\pm$ 132.596 χ^2 /NDF: 96.0/53

asym_sam_37_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.549 $\pm$ 0.259 χ^2 /NDF: 746349.8/15

Left Out: 588.714 $\pm$ 0.155 χ^2 /NDF: 1186307.0/9

Right Out: 949.890 $\pm$ 0.253 χ^2 /NDF: 751674.5/18

Left In: 588.048 $\pm$ 0.155 χ^2 /NDF: 1003443.9/8

Left: 588.380 $\pm$ 0.110 χ^2 /NDF: 2189760.1/18

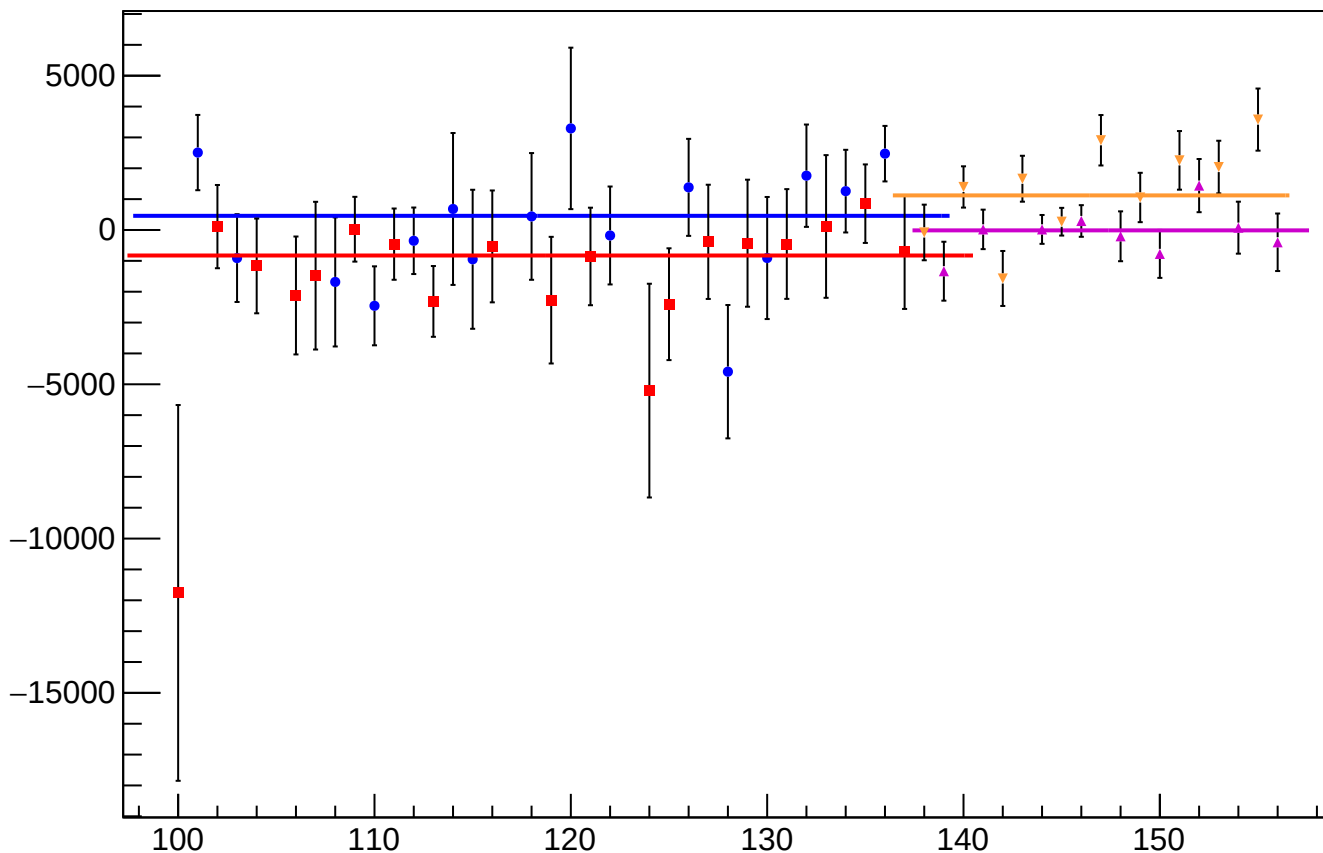
Right: 951.191 $\pm$ 0.181 χ^2 /NDF: 1498078.4/34

In: 684.338 $\pm$ 0.133 χ^2 /NDF: 3212581.2/24

Out: 687.469 $\pm$ 0.132 χ^2 /NDF: 3418139.8/28

All: 685.910 $\pm$ 0.094 χ^2 /NDF: 6630999.7/53

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 459.137+/-376.873 χ^2/NDF : 24.6/15

Left Out: 1121.237+/-235.540 χ^2/NDF :28.5/9

Right Out: -826.531+/-374.244 χ^2/NDF : 11.7/18

Left In: -12.136+/-229.349 χ^2/NDF :6.3/8

Left: 539.460+/-164.319 χ^2/NDF : 46.7/18

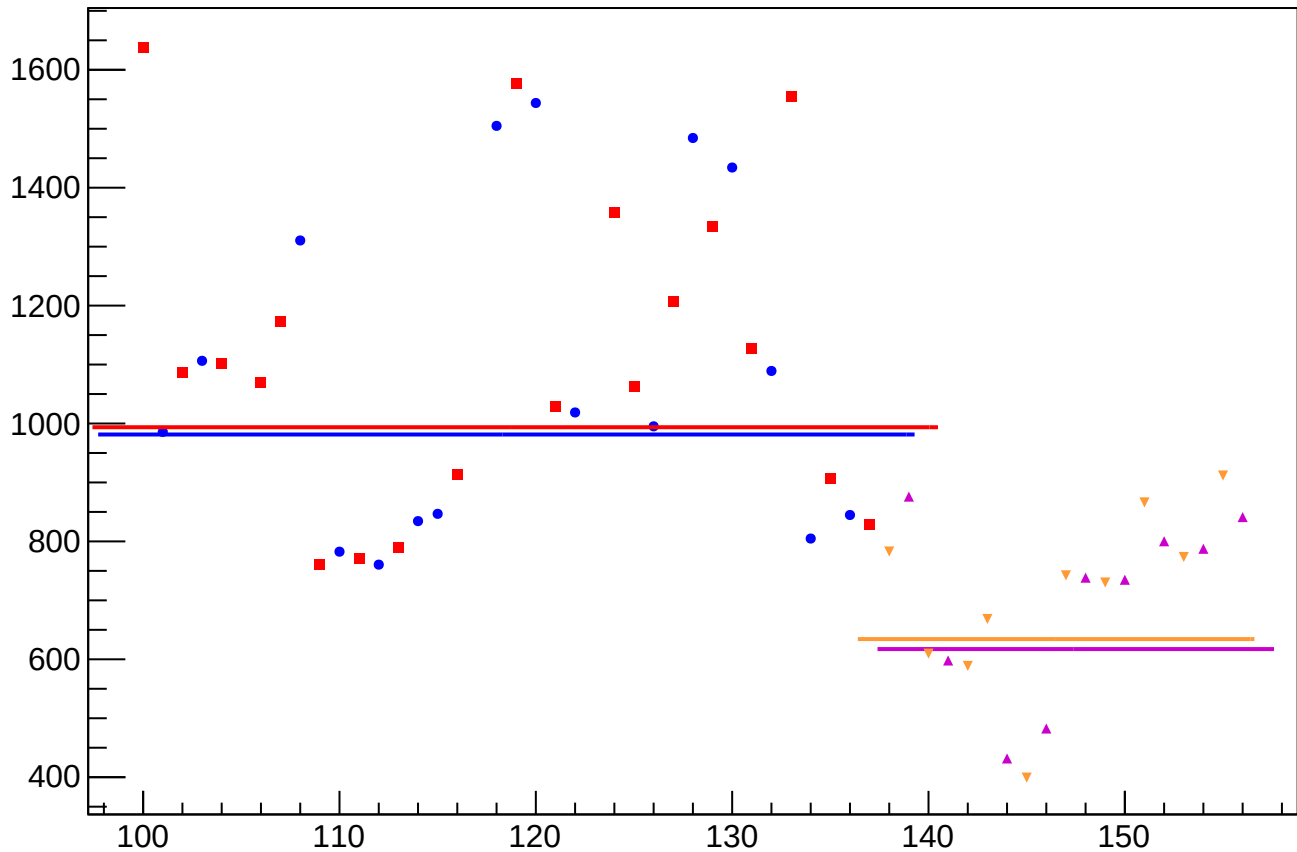
Right: -188.198+/-265.555 χ^2/NDF : 42.1/34

In: 115.228+/-195.921 χ^2/NDF :32.0/24

Out: 568.606+/-199.344 χ^2/NDF :59.6/28

All: 337.991+/-139.732 χ^2/NDF : 94.3/53

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 981.349+/-0.266 χ^2/NDF : 737627.4/15

Left Out: 634.310+/-0.167 χ^2/NDF : 1002596.8/9

Right Out: 993.684+/-0.265 χ^2/NDF : 719799.0/18

Left In: 617.372+/-0.162 χ^2/NDF : 979416.2/8

Left: 625.615+/-0.116 χ^2/NDF : 1987321.6/18

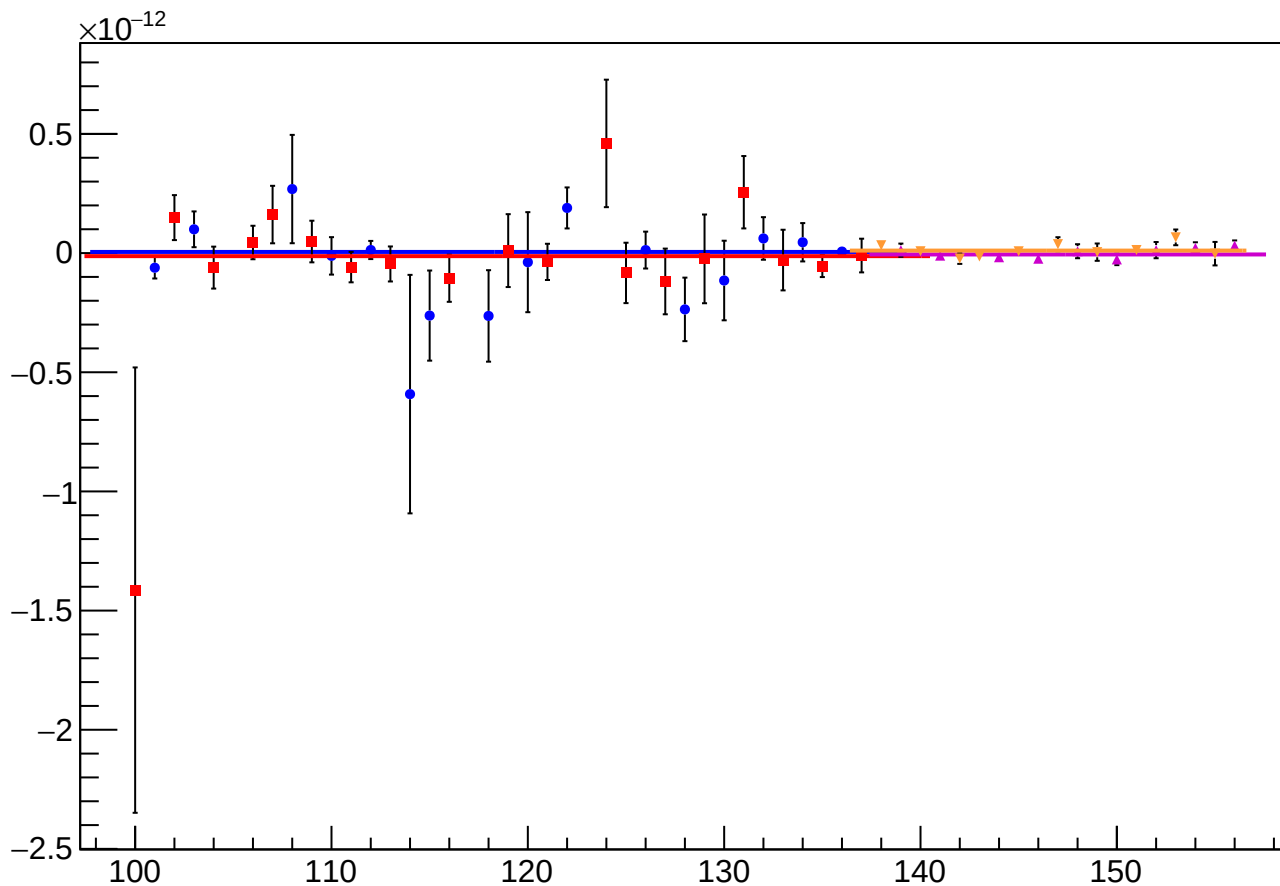
Right: 987.560+/-0.188 χ^2/NDF : 1458505.1/34

In: 715.739+/-0.139 χ^2/NDF : 3078357.3/24

Out: 736.273+/-0.141 χ^2/NDF : 3043373.6/28

All: 725.828+/-0.099 χ^2/NDF : 6132525.9/53

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 : 9.2/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 7.8/8

Left: 0.000+/-0.000 χ^2/NDF : 19.8/18

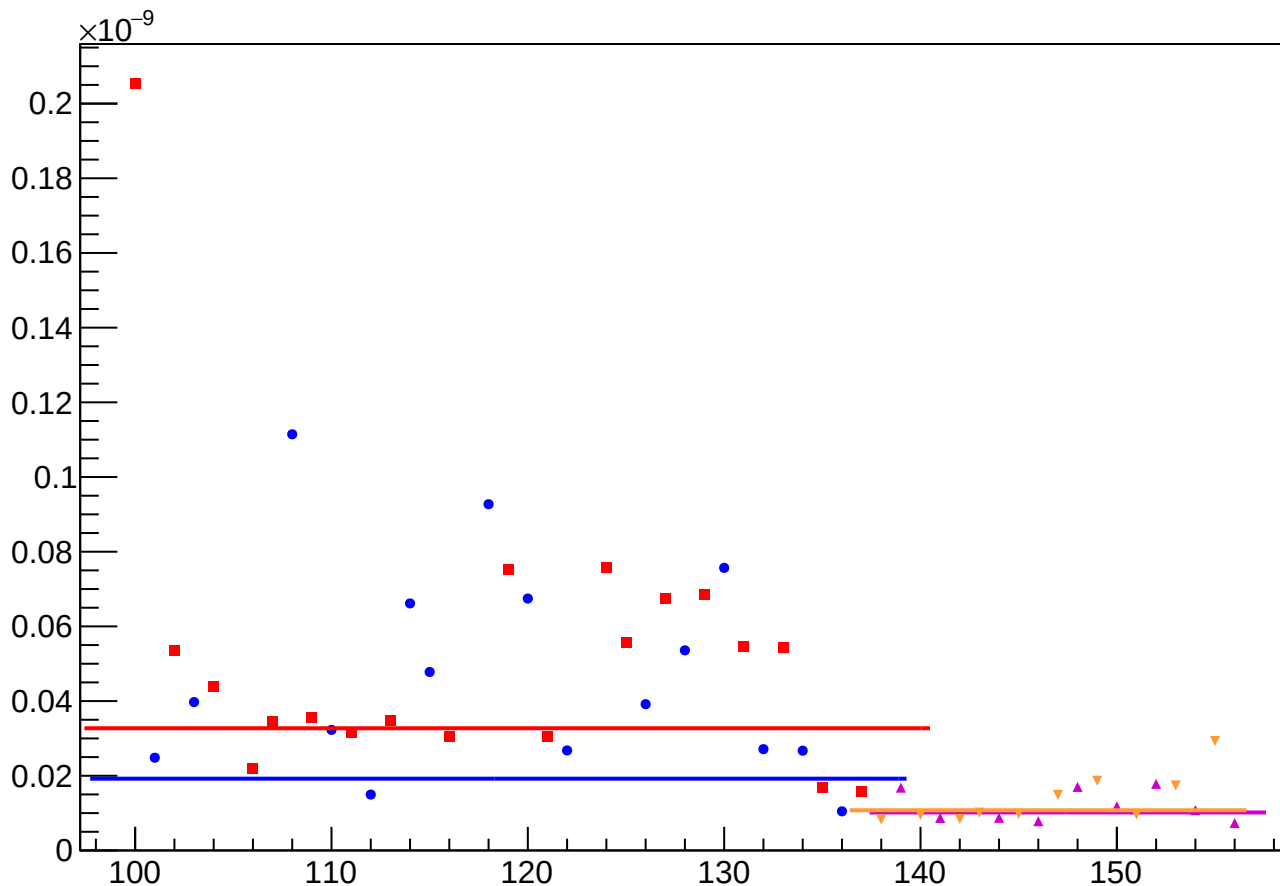
Right: -0.000+/-0.000 χ^2/NDF : 38.6/34

In: -0.000+/-0.000 χ^2/NDF : 27.9/24

Out: 0.000+/-0.000 χ^2/NDF : 28.8/28

All: 0.000+/-0.000 χ^2/NDF : 58.4/53

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 : 584645.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1181327.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 447648.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1039398.4/18

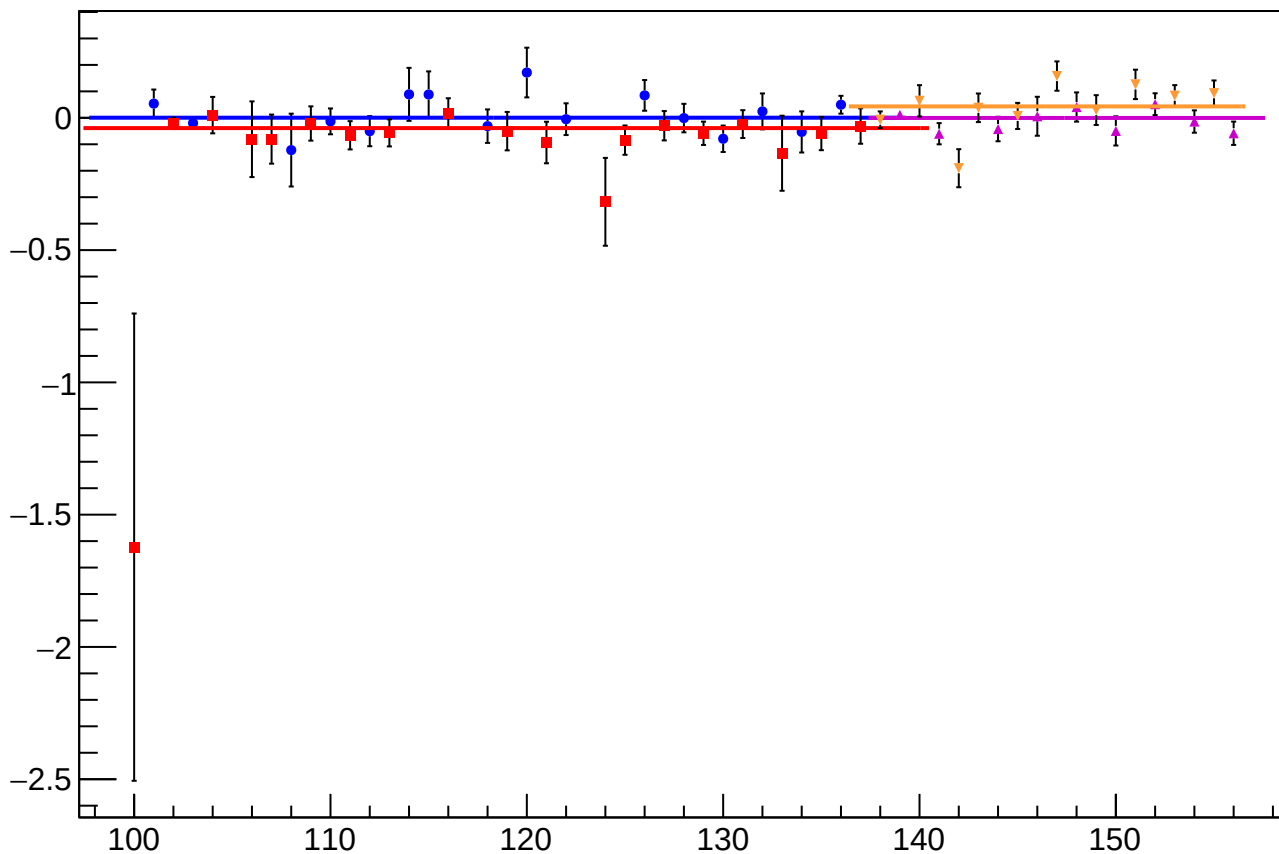
Right: 0.000+/-0.000 χ^2/NDF : 3729954.2/34

In: 0.000+/-0.000 χ^2/NDF : 3065092.0/24

Out: 0.000+/-0.000 χ^2/NDF : 3778606.7/28

All: 0.000+/-0.000 χ^2/NDF : 6876155.9/53

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: 0.043 ± 0.015 $\chi^2/\text{NDF}: 22.5/9$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: -0.000 ± 0.010 $\chi^2/\text{NDF}: 8.6/8$

Left: 0.013 ± 0.009 $\chi^2/\text{NDF}: 36.6/18$

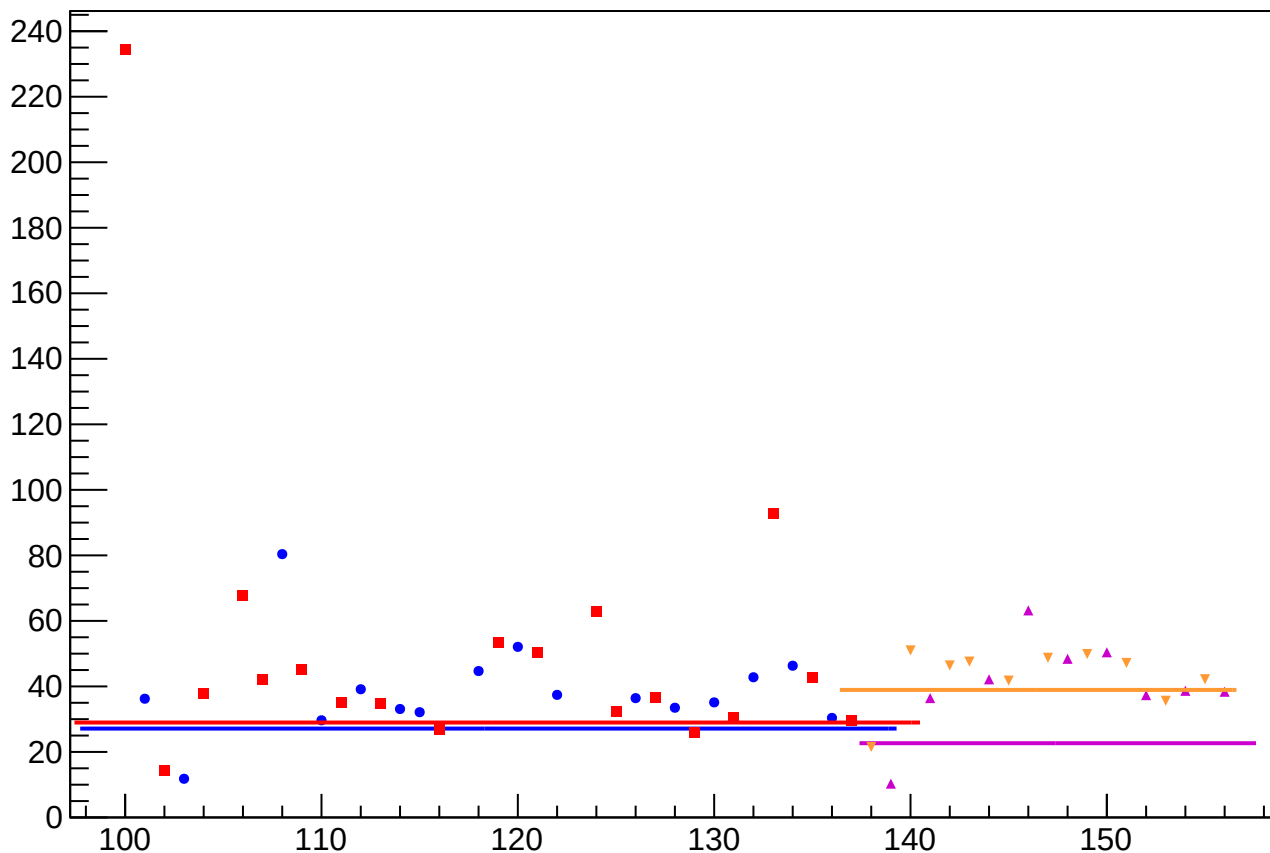
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: -0.000 ± 0.008 $\chi^2/\text{NDF}: 25.1/24$

Out: -0.006 ± 0.010 $\chi^2/\text{NDF}: 50.6/28$

All: -0.002 ± 0.006 $\chi^2/\text{NDF}: 75.9/53$

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: 38.929+/-0.011 χ^2/NDF : 982032.9/9

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 22.666+/-0.007 χ^2/NDF : 4623844.0/8

Left: 27.846+/-0.006 χ^2/NDF : 7145534.8/18

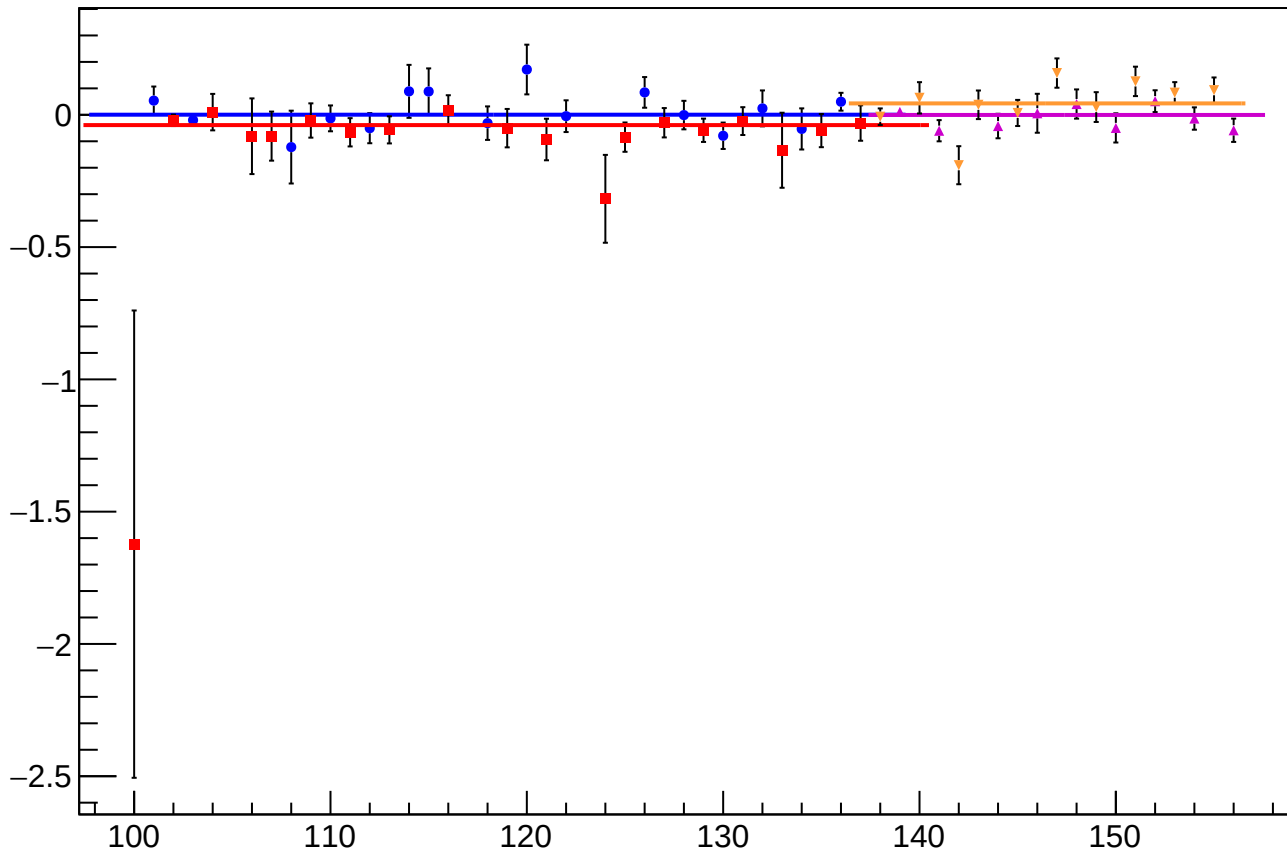
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 24.587+/-0.006 χ^2/NDF : 7195778.9/24

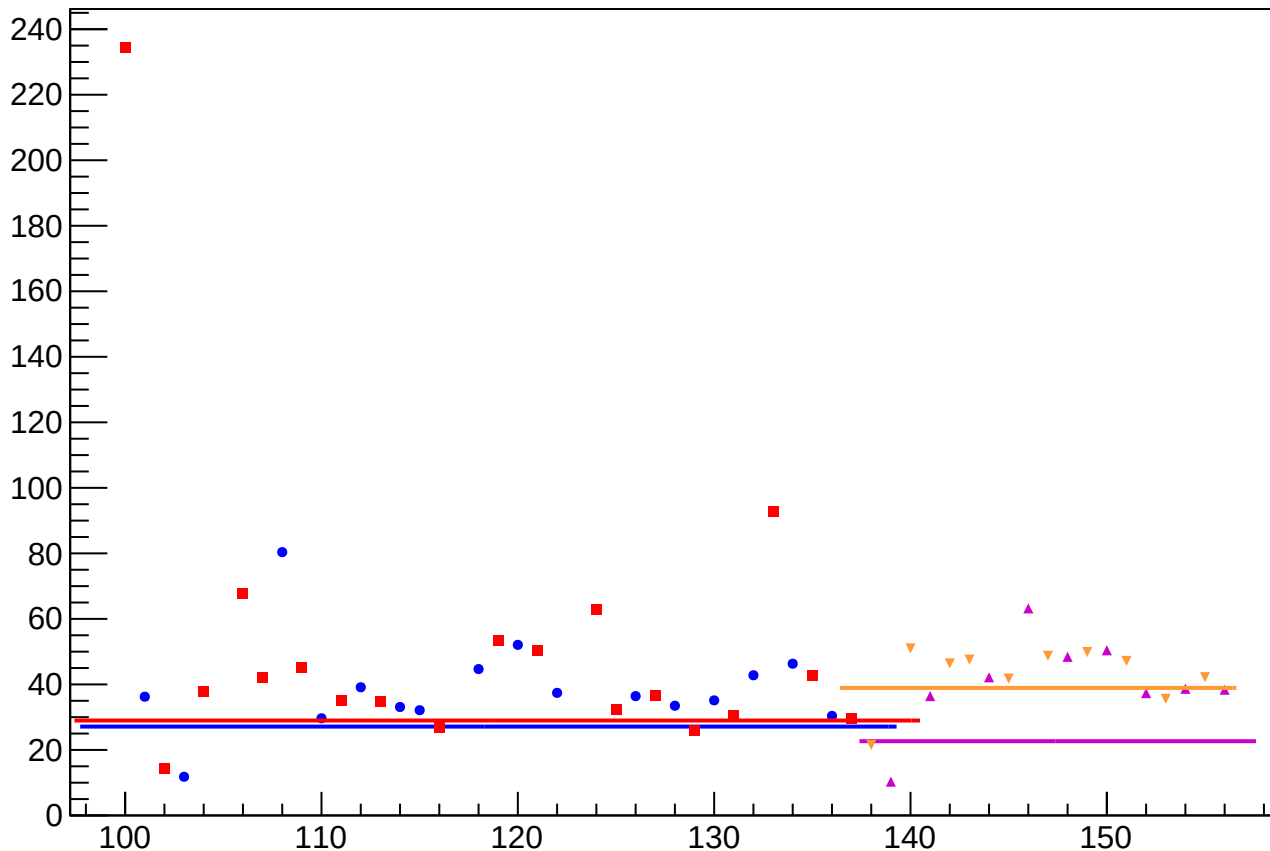
Out: 33.013+/-0.007 χ^2/NDF : 3941071.3/28

All: 27.926+/-0.004 χ^2/NDF : 12039959.3/53

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



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: 38.929+/-0.011 χ^2/NDF : 982032.9/9

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 22.666+/-0.007 χ^2/NDF : 4623844.0/8

Left: 27.846+/-0.006 χ^2/NDF : 7145534.8/18

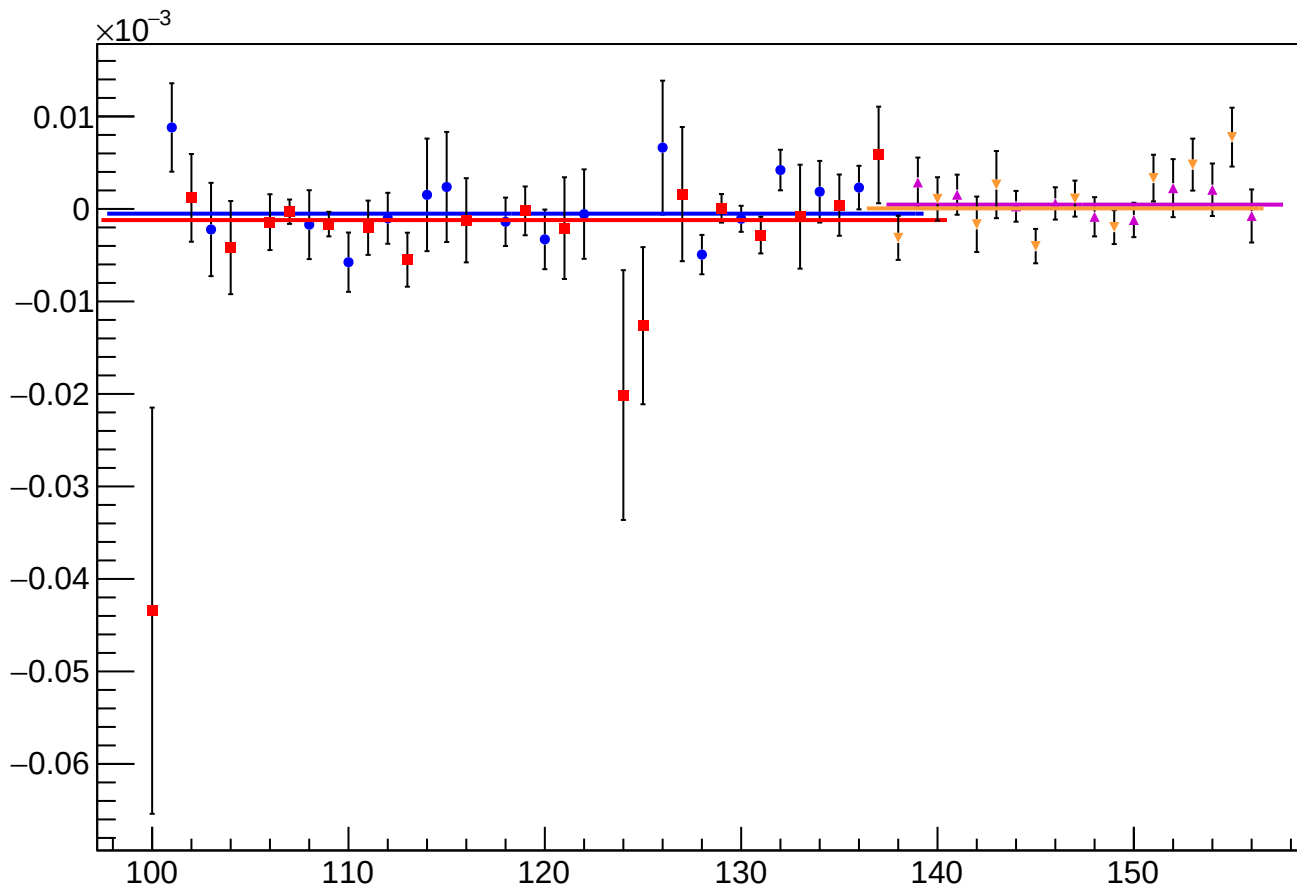
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 24.587+/-0.006 χ^2/NDF : 7195778.9/24

Out: 33.013+/-0.007 χ^2/NDF : 3941071.3/28

All: 27.926+/-0.004 χ^2/NDF : 12039959.3/53

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 : 19.5/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 3.1/8

Left: 0.000 ± 0.000 χ^2/NDF : 22.7/18

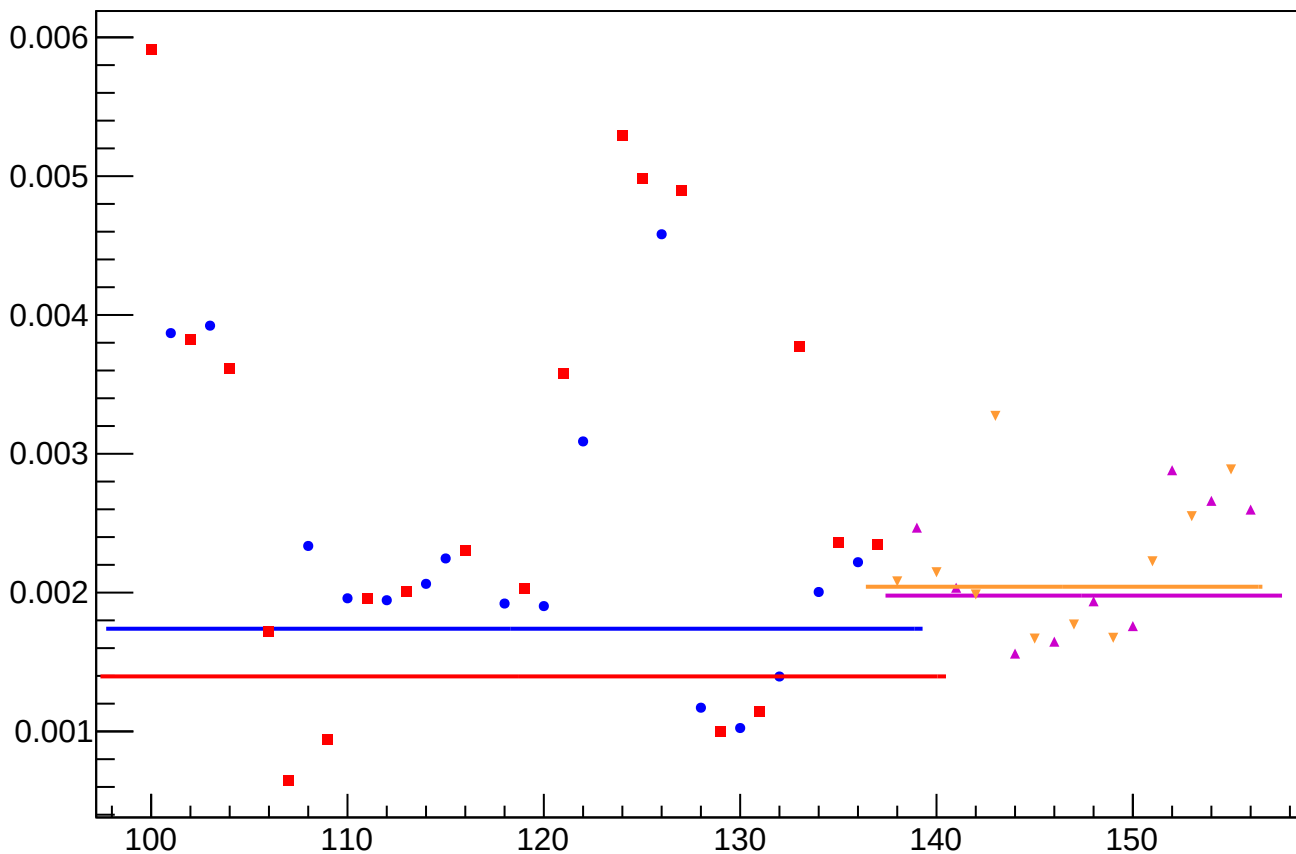
Right: -0.000 ± 0.000 χ^2/NDF : 35.1/34

In: -0.000 ± 0.000 χ^2/NDF : 23.9/24

Out: -0.000 ± 0.000 χ^2/NDF : 35.9/28

All: -0.000 ± 0.000 χ^2/NDF : 60.7/53

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 : 652363.7/9

Right Out: 0.001+/-0.000 χ^2/NDF : 4323193.2/18

Left In: 0.002+/-0.000 χ^2/NDF : 669411.5/8

Left: 0.002+/-0.000 χ^2/NDF : 1329270.0/18

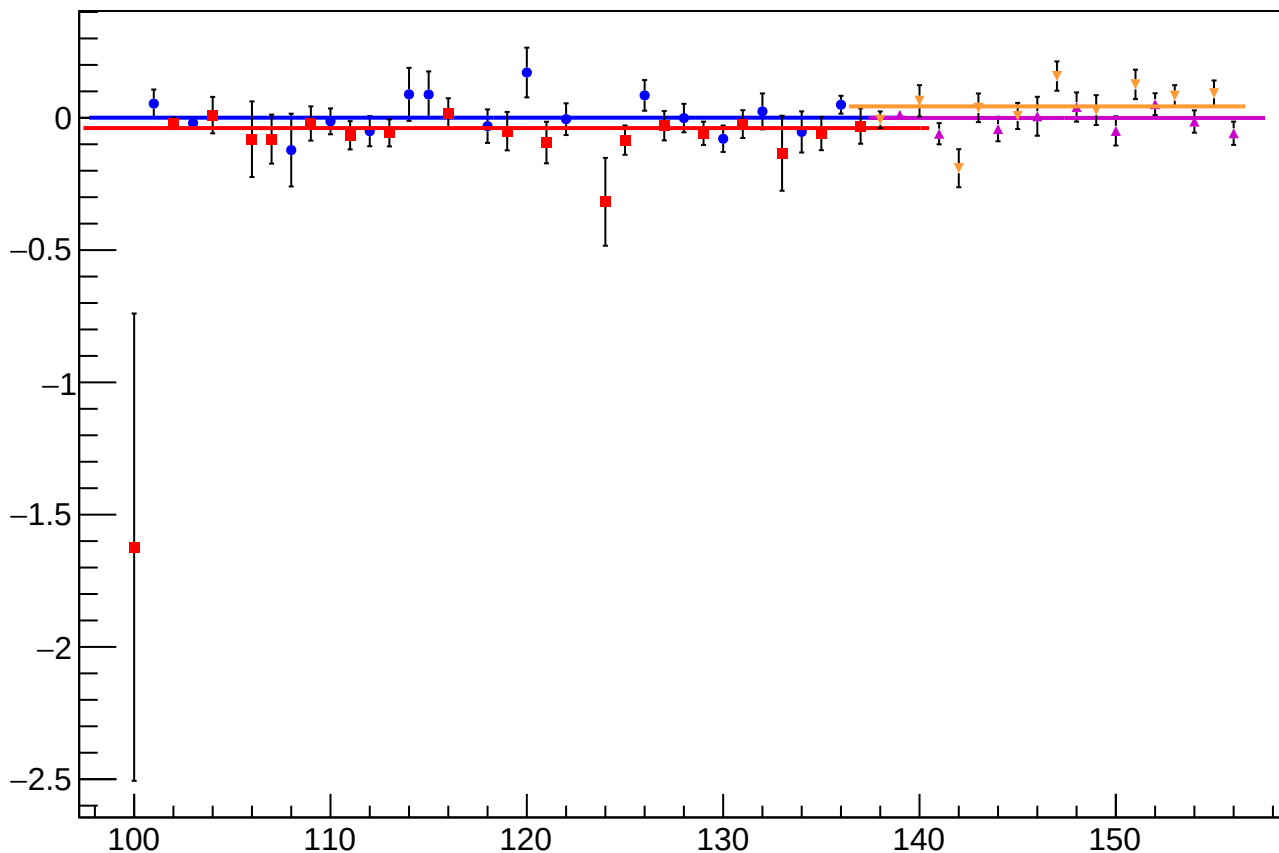
Right: 0.002+/-0.000 χ^2/NDF : 6735676.7/34

In: 0.002+/-0.000 χ^2/NDF : 2925752.8/24

Out: 0.002+/-0.000 χ^2/NDF : 5866555.4/28

All: 0.002+/-0.000 χ^2/NDF : 8962541.9/53

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.012 $\chi^2/\text{NDF}: 16.5/15$

Left Out: 0.043 ± 0.015 $\chi^2/\text{NDF}: 22.5/9$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: -0.000 ± 0.010 $\chi^2/\text{NDF}: 8.6/8$

Left: 0.013 ± 0.009 $\chi^2/\text{NDF}: 36.6/18$

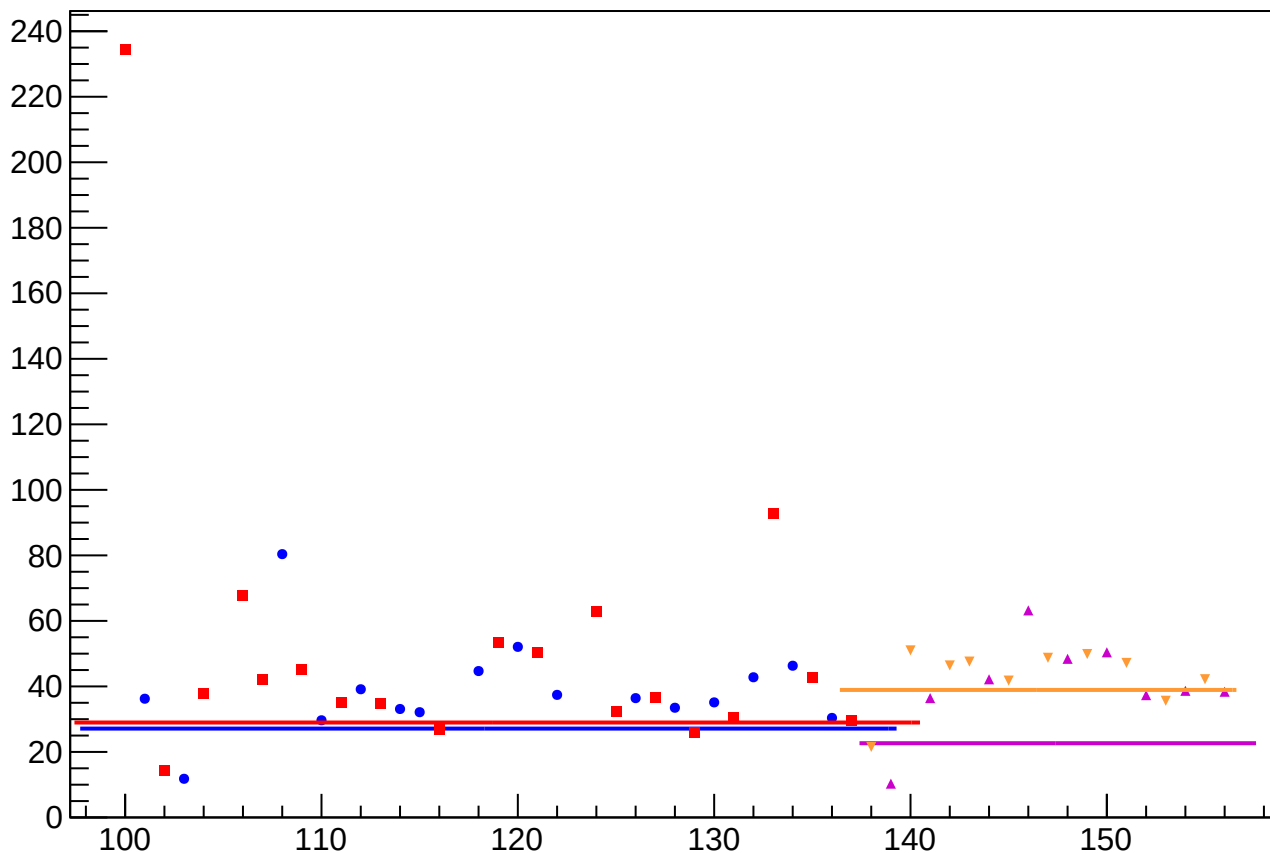
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: -0.000 ± 0.008 $\chi^2/\text{NDF}: 25.1/24$

Out: -0.006 ± 0.010 $\chi^2/\text{NDF}: 50.6/28$

All: -0.002 ± 0.006 $\chi^2/\text{NDF}: 75.9/53$

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.127 $\pm$ 0.009 χ^2/NDF : 2415651.3/15

Left Out: 38.928 $\pm$ 0.011 χ^2/NDF : 982456.9/9

Right Out: 28.982 $\pm$ 0.009 χ^2/NDF : 2455659.1/18

Left In: 22.664 $\pm$ 0.007 χ^2/NDF : 4624615.5/8

Left: 27.844 $\pm$ 0.006 χ^2/NDF : 7147001.1/18

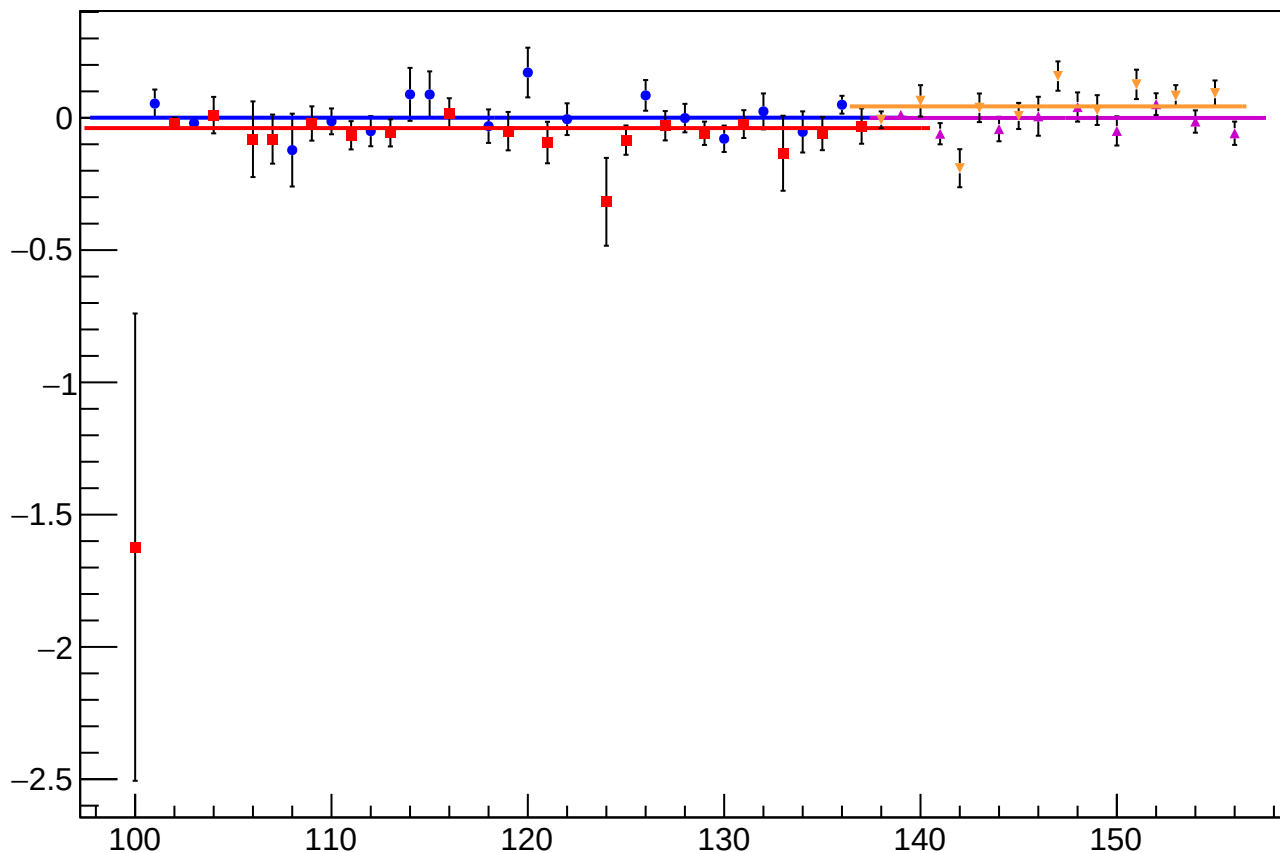
Right: 28.009 $\pm$ 0.006 χ^2/NDF : 4893896.0/34

In: 24.585 $\pm$ 0.006 χ^2/NDF : 7196989.3/24

Out: 33.015 $\pm$ 0.007 χ^2/NDF : 3940501.4/28

All: 27.926 $\pm$ 0.004 χ^2/NDF : 12041260.8/53

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: 0.043 ± 0.015 $\chi^2/\text{NDF}: 22.5/9$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: -0.000 ± 0.010 $\chi^2/\text{NDF}: 8.6/8$

Left: 0.013 ± 0.009 $\chi^2/\text{NDF}: 36.6/18$

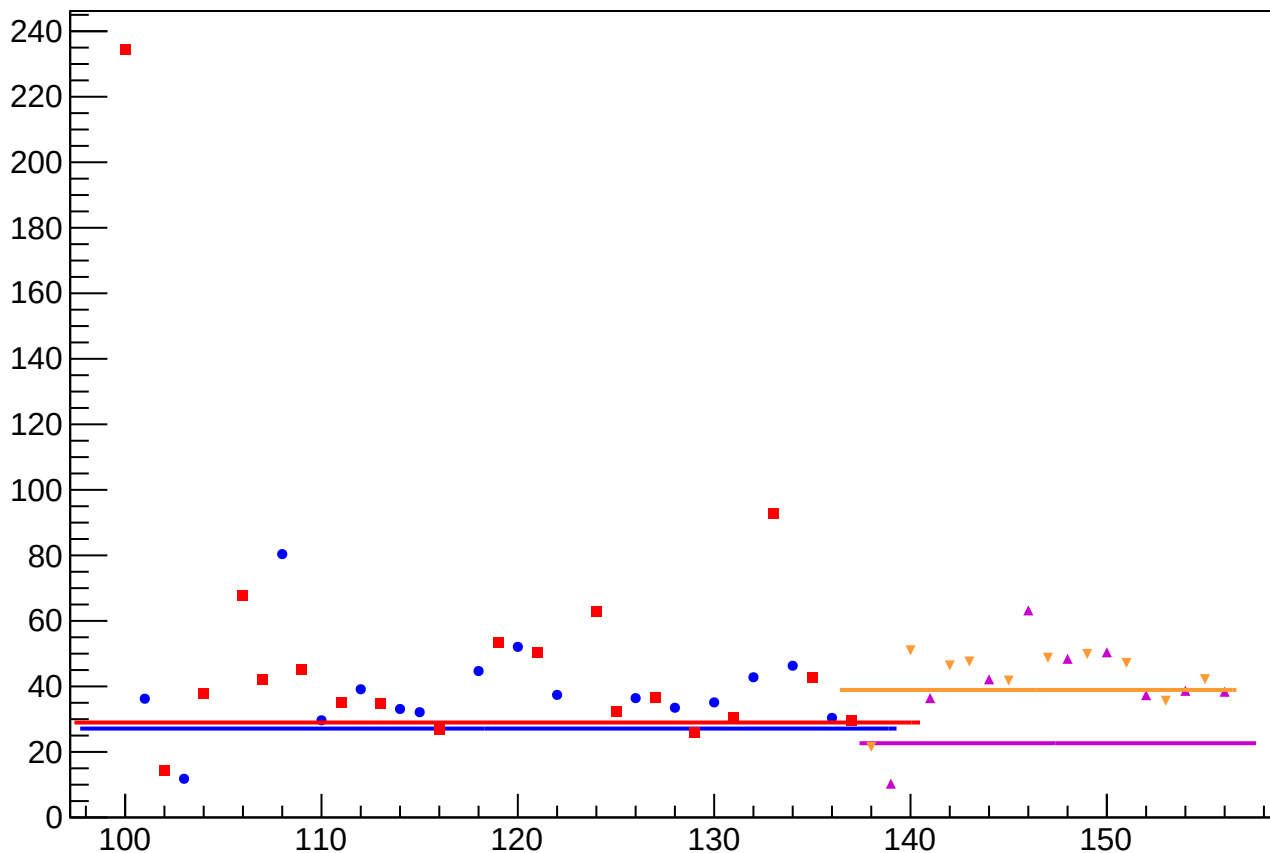
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: -0.000 ± 0.008 $\chi^2/\text{NDF}: 25.1/24$

Out: -0.006 ± 0.010 $\chi^2/\text{NDF}: 50.6/28$

All: -0.002 ± 0.006 $\chi^2/\text{NDF}: 75.9/53$

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: 38.928+/-0.011 χ^2/NDF : 982456.9/9

Right Out: 28.982+/-0.009 χ^2/NDF : 2455659.1/18

Left In: 22.664+/-0.007 χ^2/NDF : 4624615.5/8

Left: 27.844+/-0.006 χ^2/NDF : 7147001.1/18

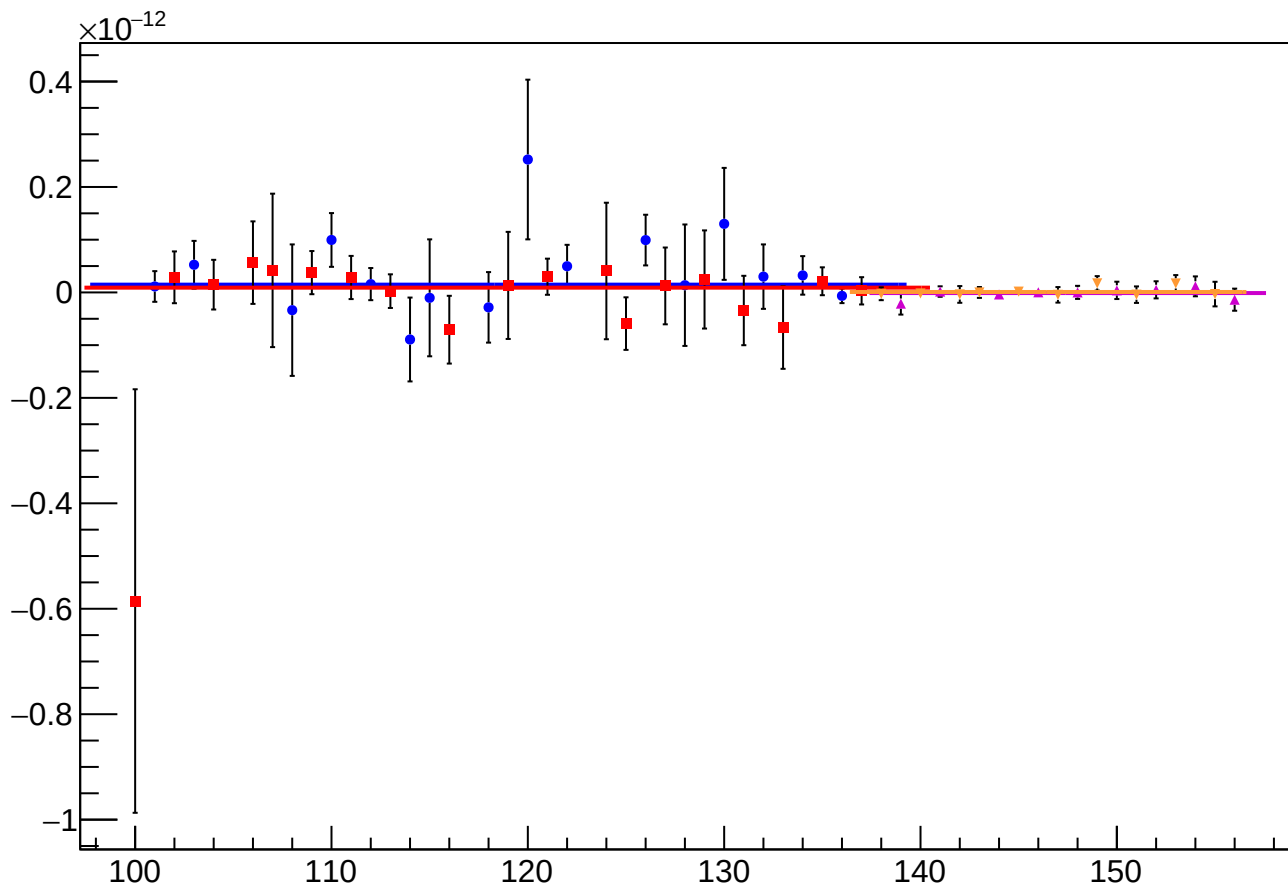
Right: 28.009+/-0.006 χ^2/NDF : 4893896.0/34

In: 24.585+/-0.006 χ^2/NDF : 7196989.3/24

Out: 33.015+/-0.007 χ^2/NDF : 3940501.4/28

All: 27.926+/-0.004 χ^2/NDF : 12041260.8/53

asym_sam_37_avg_eigen_cor_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 : 3.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 9.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 2.3/8

Left: -0.000+/-0.000 χ^2/NDF : 5.5/18

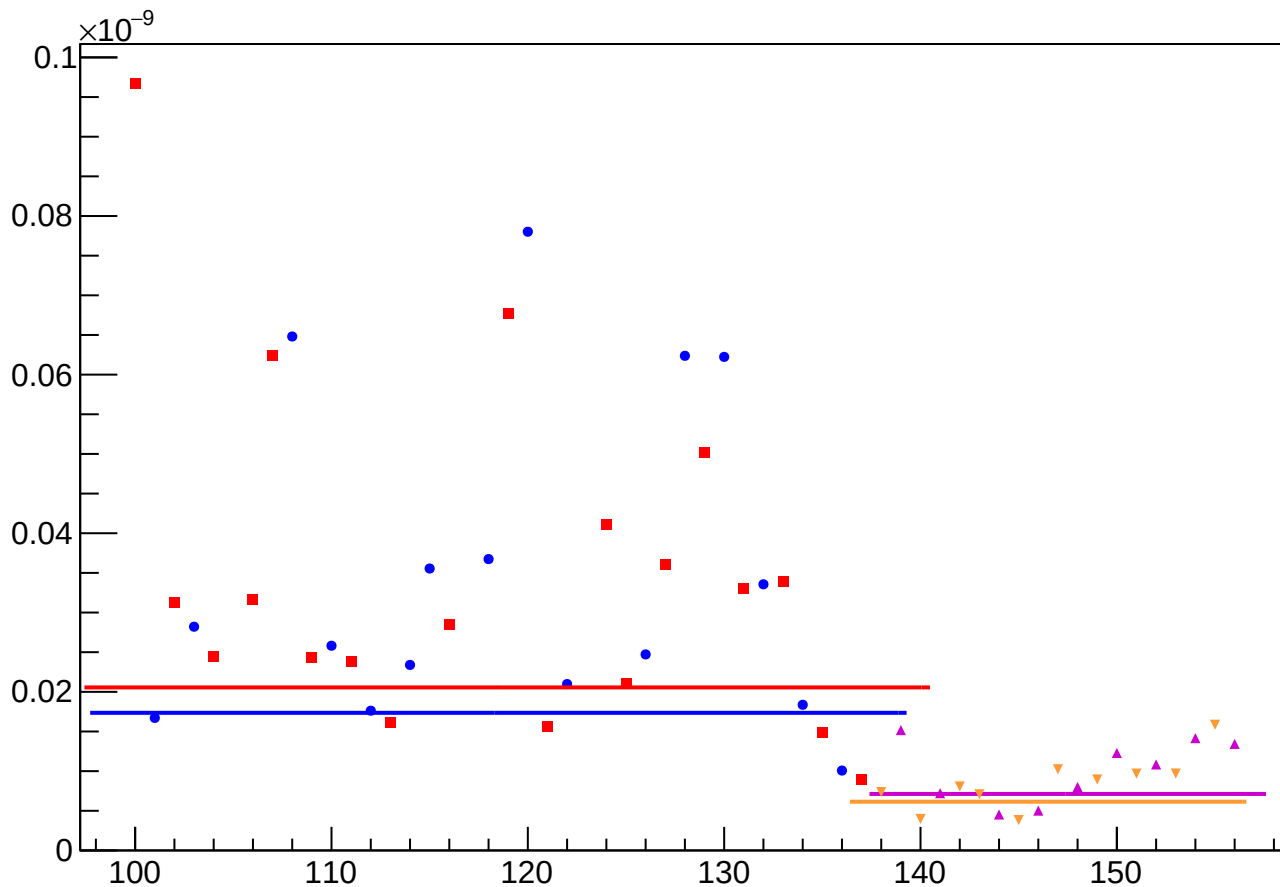
Right: 0.000+/-0.000 χ^2/NDF : 25.1/34

In: 0.000+/-0.000 χ^2/NDF : 20.7/24

Out: 0.000+/-0.000 χ^2/NDF : 12.6/28

All: 0.000+/-0.000 χ^2/NDF : 33.3/53

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 :1323389.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1925673.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1519811.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2917583.2/18

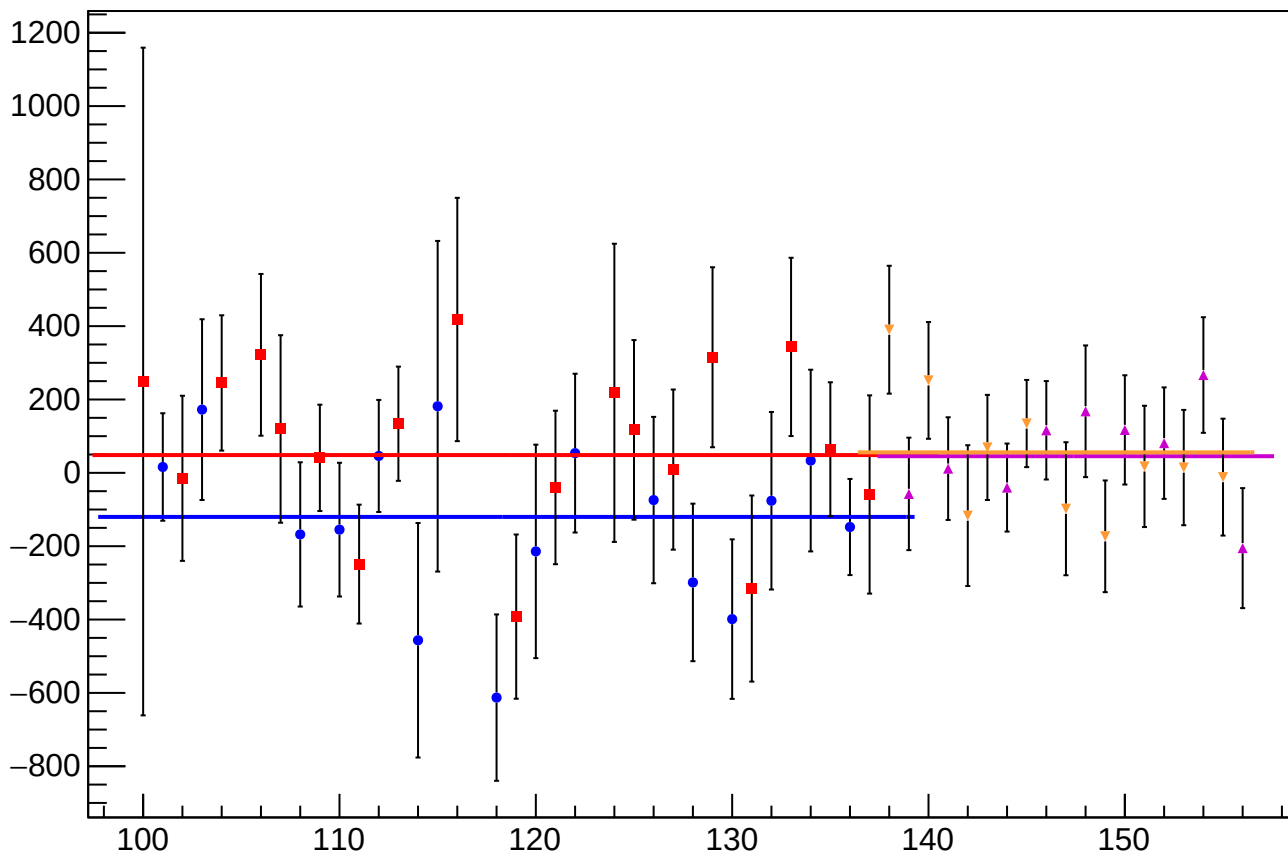
Right: 0.000+/-0.000 χ^2/NDF : 4467051.7/34

In: 0.000+/-0.000 χ^2/NDF :5981948.9/24

Out: 0.000+/-0.000 χ^2/NDF :6475895.4/28

All: 0.000+/-0.000 χ^2/NDF : 12563865.5/53

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.159 ± 51.103 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 55.869 ± 49.454 $\chi^2/\text{NDF}: 9.7/9$

Right Out: 48.449 ± 49.910 $\chi^2/\text{NDF}: 17.0/18$

Left In: 45.389 ± 49.055 $\chi^2/\text{NDF}: 6.4/8$

Left: 50.587 ± 34.827 $\chi^2/\text{NDF}: 16.1/18$

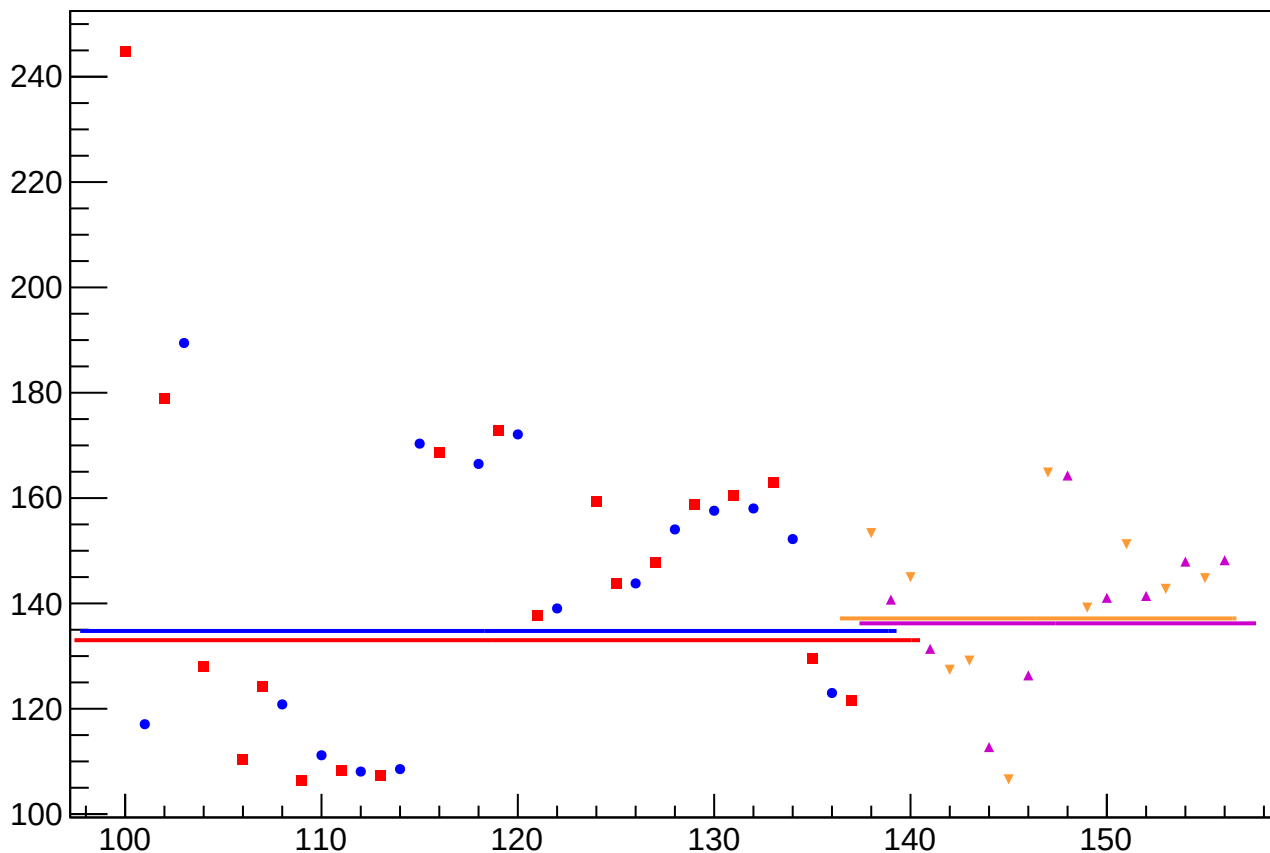
Right: -33.863 ± 35.706 $\chi^2/\text{NDF}: 36.0/34$

In: -34.001 ± 35.389 $\chi^2/\text{NDF}: 25.2/24$

Out: 52.193 ± 35.129 $\chi^2/\text{NDF}: 26.7/28$

All: 9.414 ± 24.932 $\chi^2/\text{NDF}: 55.0/53$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771+/-0.036 χ^2/NDF : 416778.7/15

Left Out: 137.150+/-0.035 χ^2/NDF :234300.6/9

Right Out: 133.019+/-0.035 χ^2/NDF : 495717.0/18

Left In: 136.216+/-0.035 χ^2/NDF :166782.6/8

Left: 136.679+/-0.025 χ^2/NDF : 401443.3/18

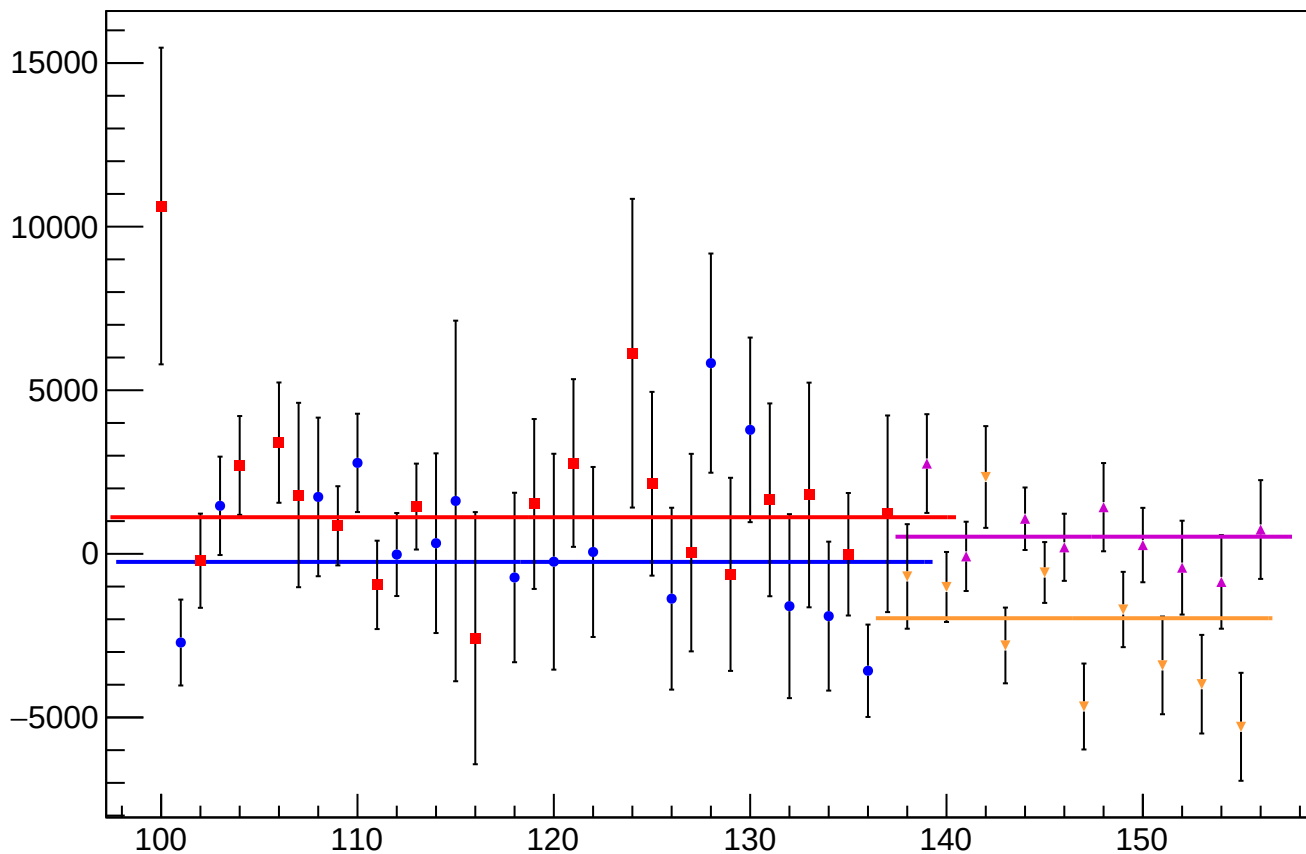
Right: 133.875+/-0.025 χ^2/NDF : 913698.6/34

In: 135.523+/-0.025 χ^2/NDF :584392.7/24

Out: 135.104+/-0.025 χ^2/NDF :736930.6/28

All: 135.312+/-0.018 χ^2/NDF : 1321464.7/53

asym_sam_48_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -246.357 ± 501.413 $\chi^2/\text{NDF}: 21.6/15$

Left Out: -1967.685 ± 402.472 $\chi^2/\text{NDF}: 23.0/9$

Right Out: 1119.420 ± 468.400 $\chi^2/\text{NDF}: 13.4/18$

Left In: 523.719 ± 404.355 $\chi^2/\text{NDF}: 4.8/8$

Left: -727.799 ± 285.254 $\chi^2/\text{NDF}: 46.9/18$

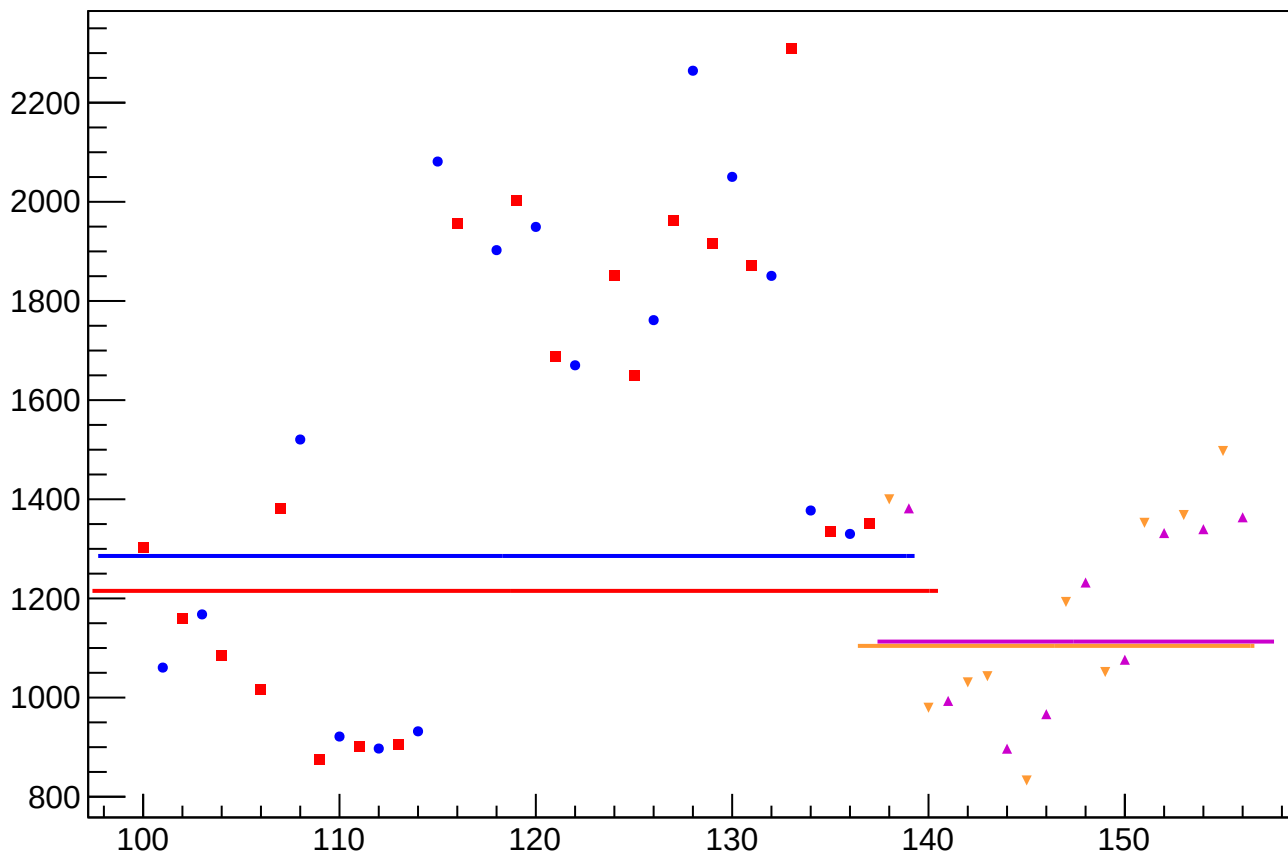
Right: 482.970 ± 342.285 $\chi^2/\text{NDF}: 39.0/34$

In: 220.262 ± 314.758 $\chi^2/\text{NDF}: 27.9/24$

Out: -656.506 ± 305.261 $\chi^2/\text{NDF}: 61.4/28$

All: -231.548 ± 219.133 $\chi^2/\text{NDF}: 93.2/53$

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: 1104.276 $\pm$ 0.285 χ^2 /NDF: 519779.7/9

Right Out: 1215.237 $\pm$ 0.331 χ^2 /NDF: 1386290.4/18

Left In: 1112.964 $\pm$ 0.286 χ^2 /NDF: 401831.1/8

Left: 1108.600 $\pm$ 0.202 χ^2 /NDF: 922074.6/18

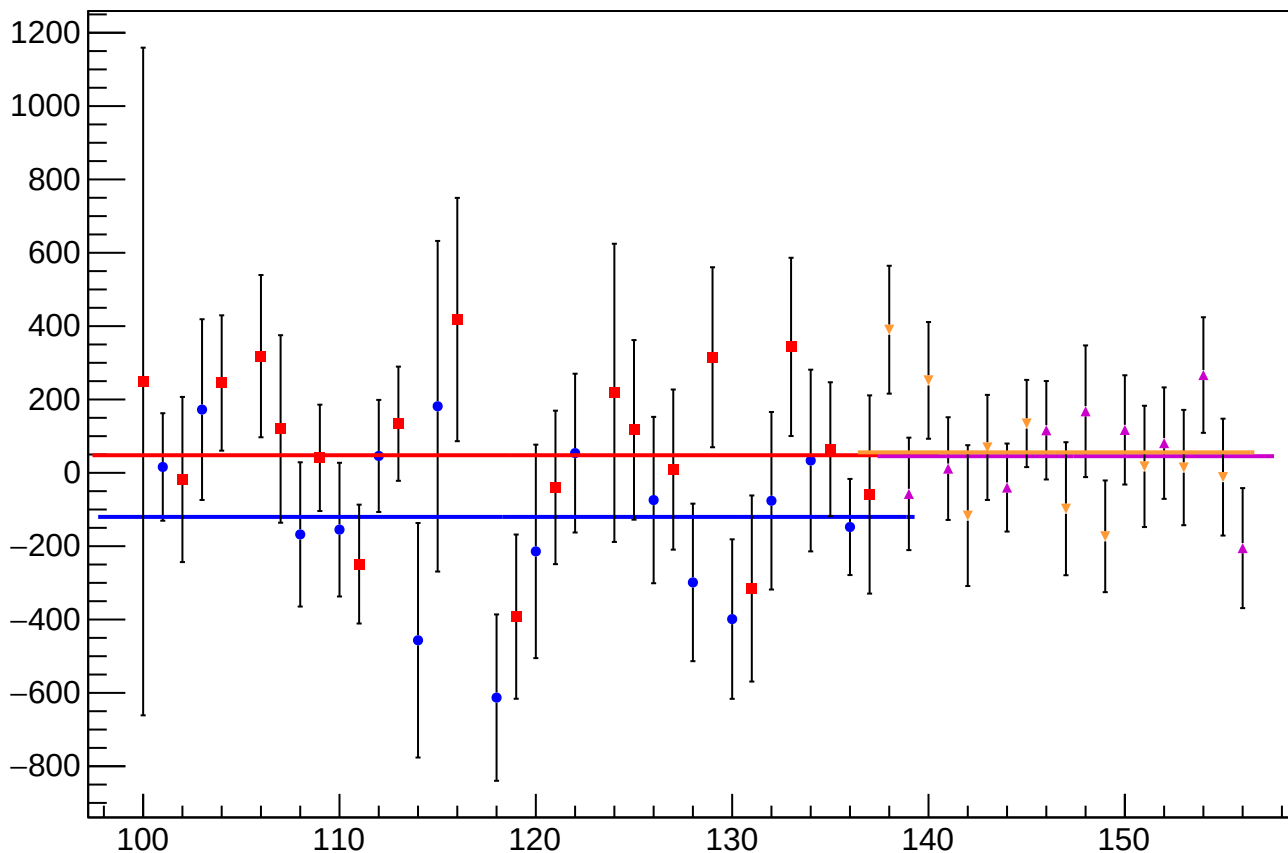
Right: 1248.058 $\pm$ 0.242 χ^2 /NDF: 2577799.9/34

In: 1181.020 $\pm$ 0.223 χ^2 /NDF: 1716039.2/24

Out: 1151.404 $\pm$ 0.216 χ^2 /NDF: 1970636.7/28

All: 1165.759 $\pm$ 0.155 χ^2 /NDF: 3695800.0/53

cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169 ± 51.103 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 55.880 ± 49.454 $\chi^2/\text{NDF}: 9.7/9$

Right Out: 48.013 ± 49.919 $\chi^2/\text{NDF}: 17.0/18$

Left In: 45.391 ± 49.055 $\chi^2/\text{NDF}: 6.4/8$

Left: 50.593 ± 34.827 $\chi^2/\text{NDF}: 16.1/18$

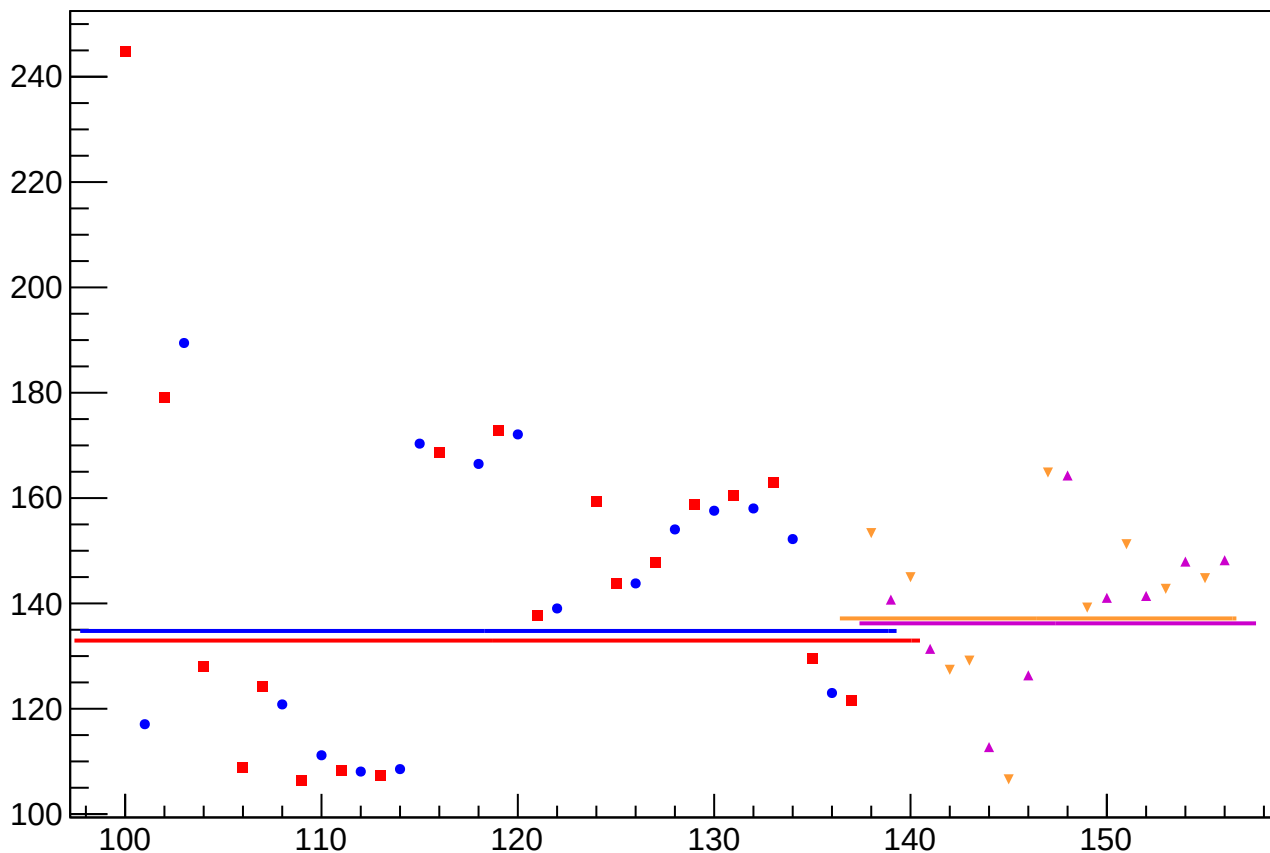
Right: -34.107 ± 35.709 $\chi^2/\text{NDF}: 35.9/34$

In: -34.006 ± 35.389 $\chi^2/\text{NDF}: 25.2/24$

Out: 51.983 ± 35.132 $\chi^2/\text{NDF}: 26.7/28$

All: 9.302 ± 24.933 $\chi^2/\text{NDF}: 54.9/53$

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: 137.150 $\pm$ 0.035 χ^2/NDF :234300.6/9

Right Out: 132.947 $\pm$ 0.035 χ^2/NDF : 498850.6/18

Left In: 136.216 $\pm$ 0.035 χ^2/NDF :166782.6/8

Left: 136.679 $\pm$ 0.025 χ^2/NDF : 401443.3/18

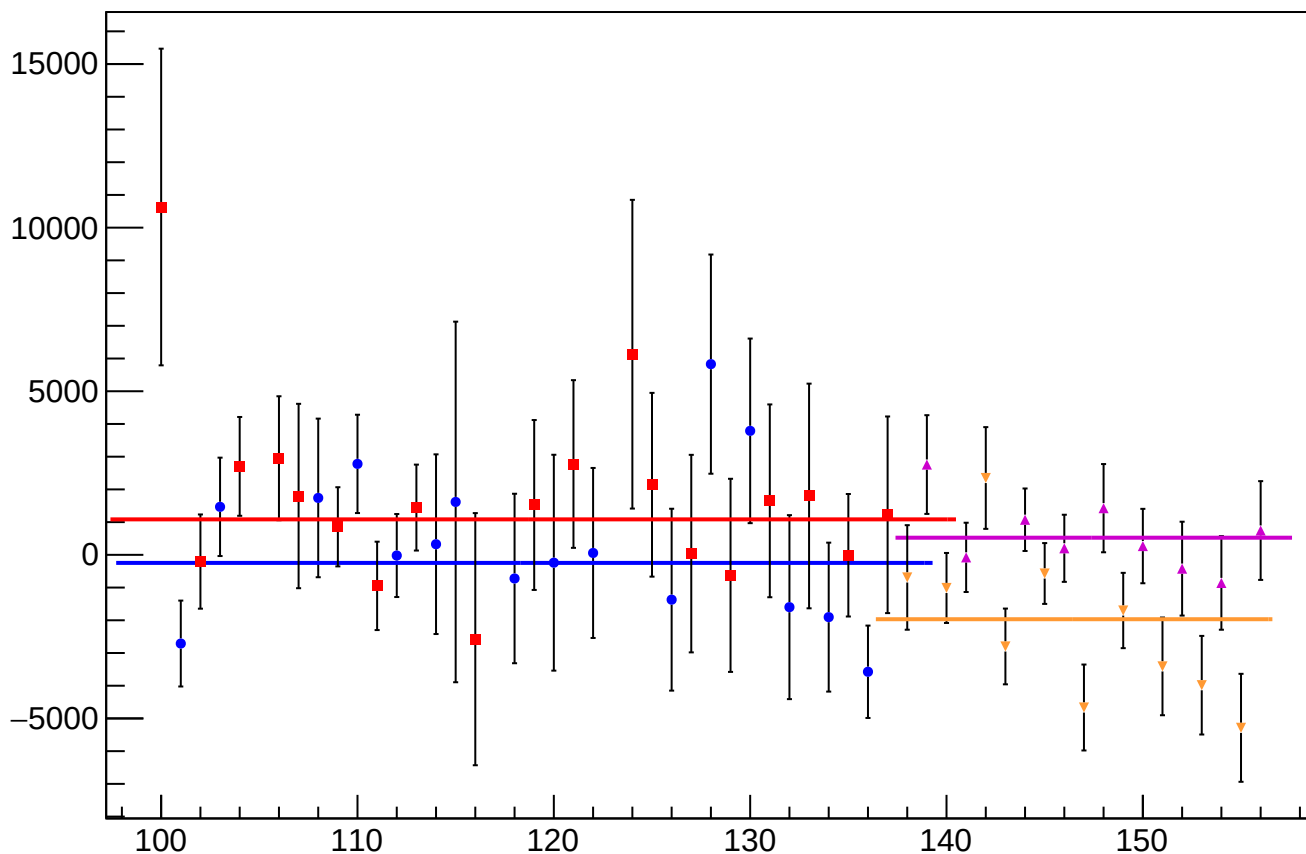
Right: 133.838 $\pm$ 0.025 χ^2/NDF : 916936.5/34

In: 135.523 $\pm$ 0.025 χ^2/NDF :584395.8/24

Out: 135.068 $\pm$ 0.025 χ^2/NDF :740307.2/28

All: 135.294 $\pm$ 0.018 χ^2/NDF : 1324869.3/53

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: -1967.675+/-402.472 χ^2/NDF : 23.0/9

Right Out: 1084.094+/-469.323 χ^2/NDF : 12.8/18

Left In: 523.729+/-404.355 χ^2/NDF : 4.8/8

Left: -727.790+/-285.254 χ^2/NDF : 46.9/18

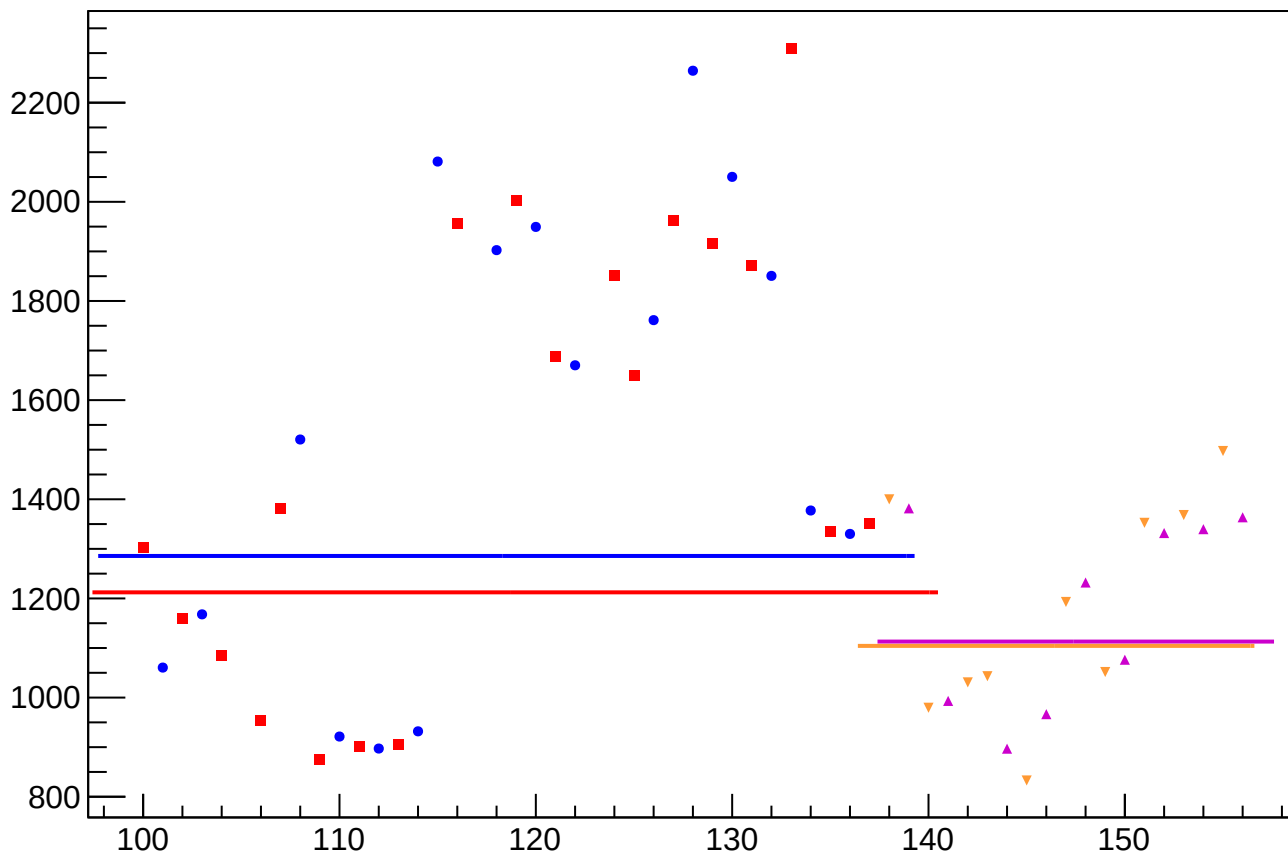
Right: 462.775+/-342.647 χ^2/NDF : 38.1/34

In: 220.244+/-314.760 χ^2/NDF : 27.9/24

Out: -674.441+/-305.517 χ^2/NDF : 60.1/28

All: -240.428+/-219.228 χ^2/NDF : 92.2/53

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: 1104.276 $\pm$ 0.285

χ^2 /NDF: 519782.2/9

Right Out: 1212.276 $\pm$ 0.332

χ^2 /NDF: 1400635.5/18

Left In: 1112.965 $\pm$ 0.286

χ^2 /NDF: 401828.9/8

Left: 1108.600 $\pm$ 0.202

χ^2 /NDF: 922075.0/18

Right: 1246.554 $\pm$ 0.242

χ^2 /NDF: 2593895.7/34

In: 1181.025 $\pm$ 0.223

χ^2 /NDF: 1716032.3/24

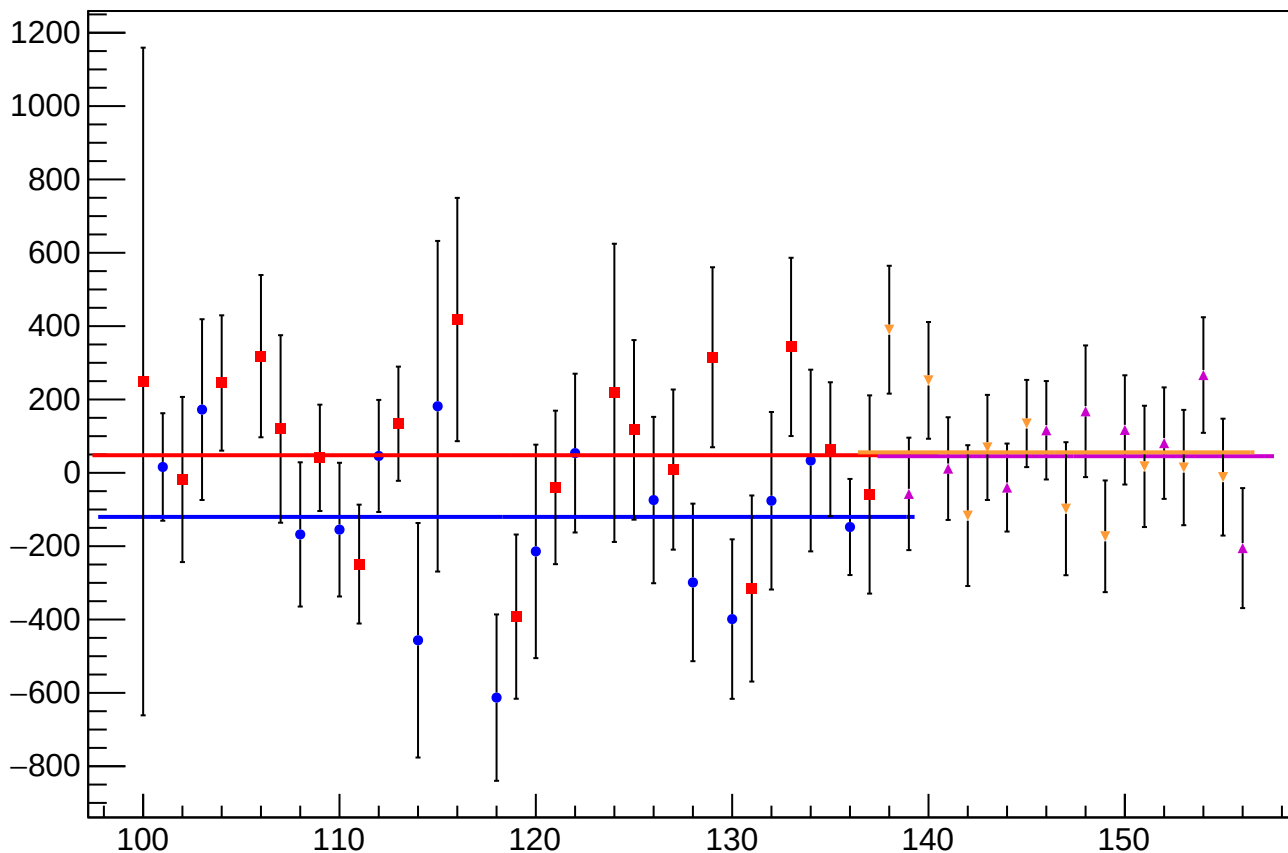
Out: 1150.043 $\pm$ 0.216

χ^2 /NDF: 1981445.5/28

All: 1165.072 $\pm$ 0.155

χ^2 /NDF: 3707455.3/53

eigen_cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169 ± 51.103 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 55.880 ± 49.454 $\chi^2/\text{NDF}: 9.7/9$

Right Out: 48.013 ± 49.919 $\chi^2/\text{NDF}: 17.0/18$

Left In: 45.391 ± 49.055 $\chi^2/\text{NDF}: 6.4/8$

Left: 50.593 ± 34.827 $\chi^2/\text{NDF}: 16.1/18$

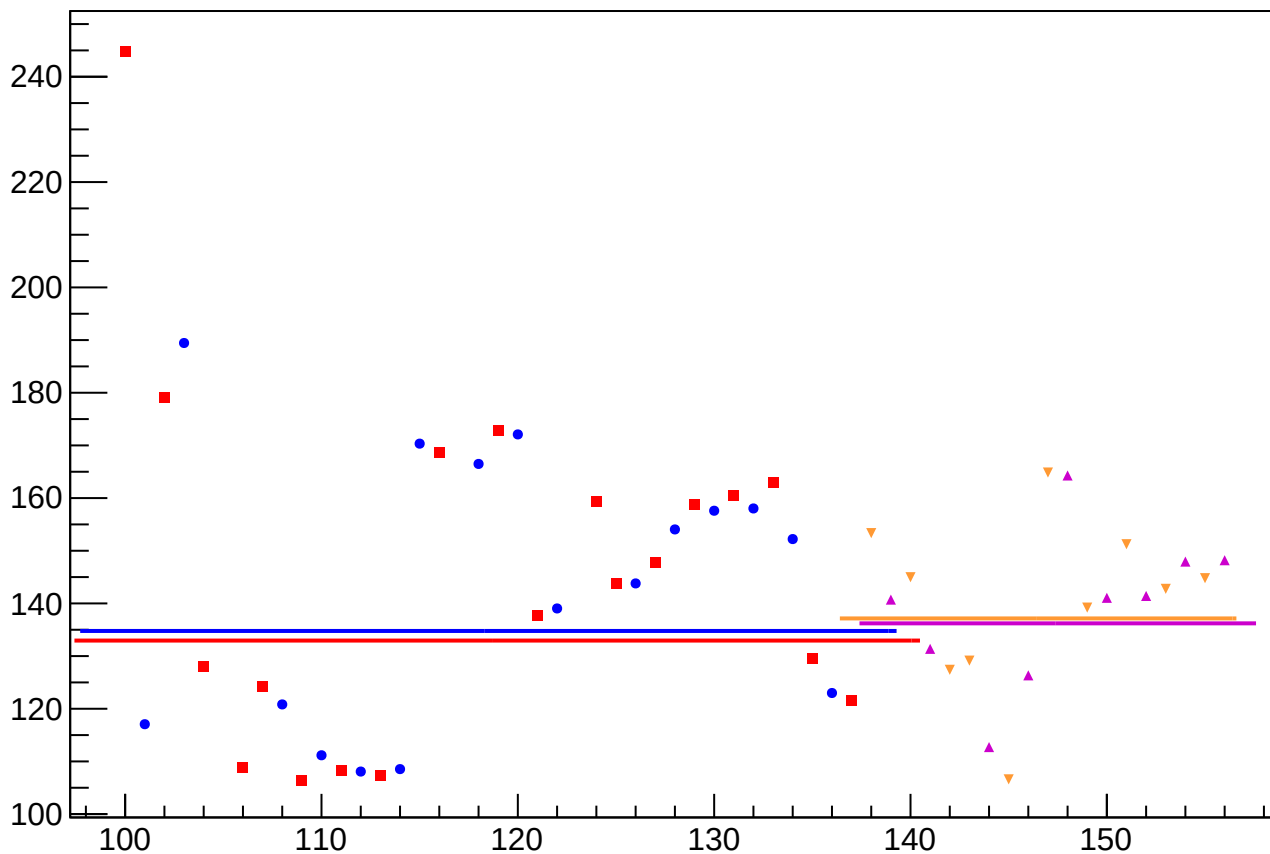
Right: -34.107 ± 35.709 $\chi^2/\text{NDF}: 35.9/34$

In: -34.006 ± 35.389 $\chi^2/\text{NDF}: 25.2/24$

Out: 51.983 ± 35.132 $\chi^2/\text{NDF}: 26.7/28$

All: 9.302 ± 24.933 $\chi^2/\text{NDF}: 54.9/53$

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: 137.150 $\pm$ 0.035 χ^2 /NDF:234300.6/9

Right Out: 132.947 $\pm$ 0.035 χ^2 /NDF: 498850.6/18

Left In: 136.216 $\pm$ 0.035 χ^2 /NDF:166782.6/8

Left: 136.679 $\pm$ 0.025 χ^2 /NDF: 401443.3/18

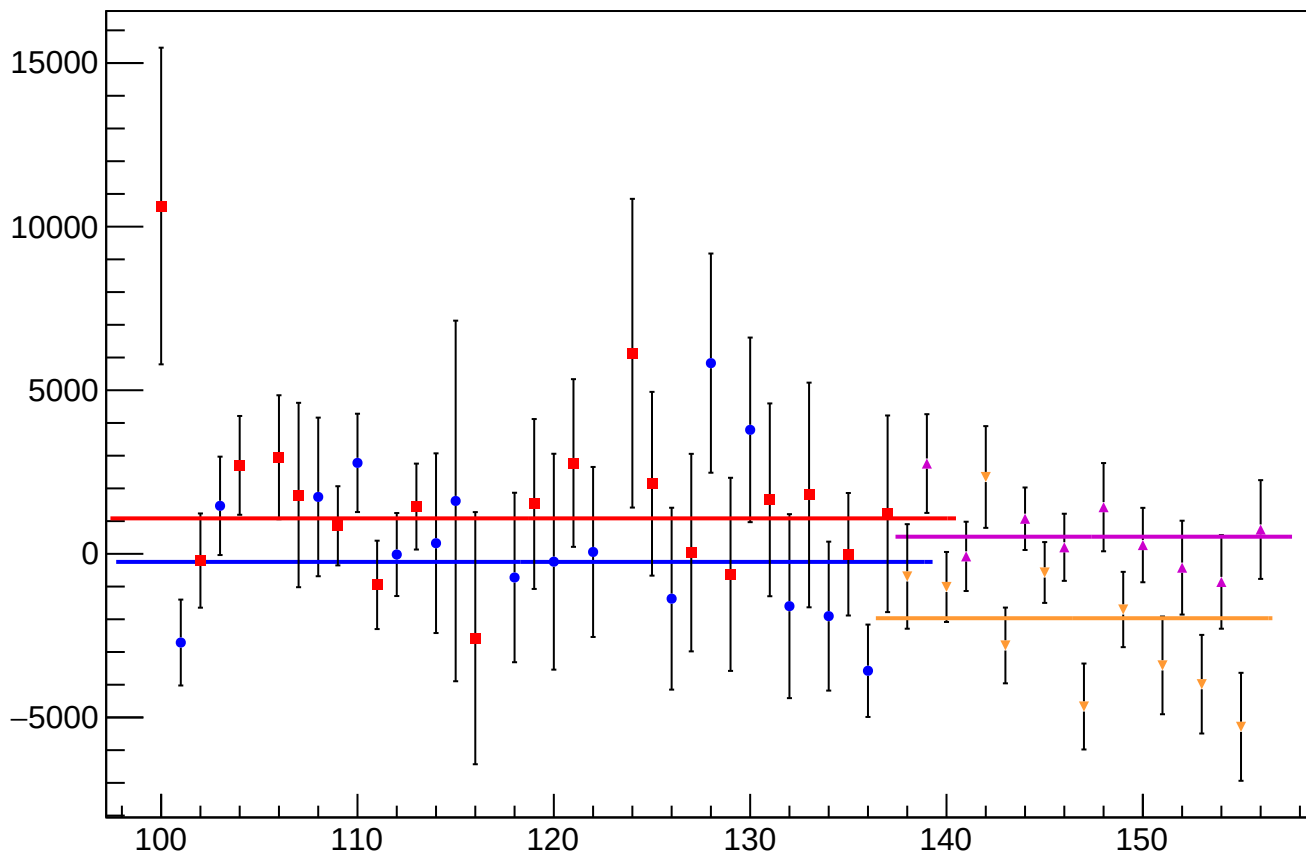
Right: 133.838 $\pm$ 0.025 χ^2 /NDF: 916936.5/34

In: 135.523 $\pm$ 0.025 χ^2 /NDF:584395.8/24

Out: 135.068 $\pm$ 0.025 χ^2 /NDF:740307.2/28

All: 135.294 $\pm$ 0.018 χ^2 /NDF: 1324869.3/53

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: -1967.675 ± 402.472 χ^2/NDF : 23.0/9

Right Out: 1084.094 ± 469.323 χ^2/NDF : 12.8/18

Left In: 523.729 ± 404.355 χ^2/NDF : 4.8/8

Left: -727.790 ± 285.254 χ^2/NDF : 46.9/18

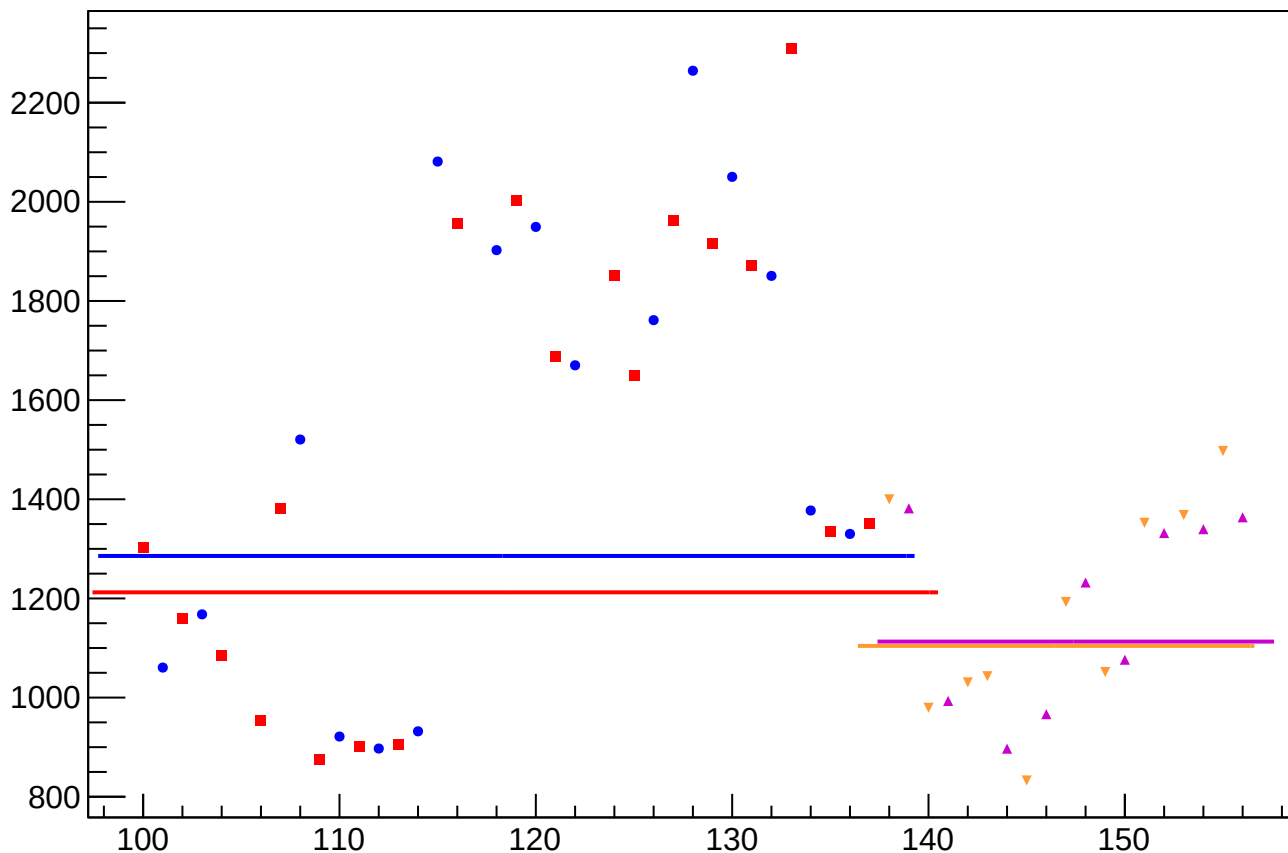
Right: 462.775 ± 342.647 χ^2/NDF : 38.1/34

In: 220.244 ± 314.760 χ^2/NDF : 27.9/24

Out: -674.441 ± 305.517 χ^2/NDF : 60.1/28

All: -240.428 ± 219.228 χ^2/NDF : 92.2/53

asym_sam_48_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1285.682 $\pm$ 0.355 χ^2 /NDF: 1170412.5/15

Left Out: 1104.276 $\pm$ 0.285 χ^2 /NDF: 519782.2/9

Right Out: 1212.276 $\pm$ 0.332 χ^2 /NDF: 1400635.5/18

Left In: 1112.965 $\pm$ 0.286 χ^2 /NDF: 401828.9/8

Left: 1108.600 $\pm$ 0.202 χ^2 /NDF: 922075.0/18

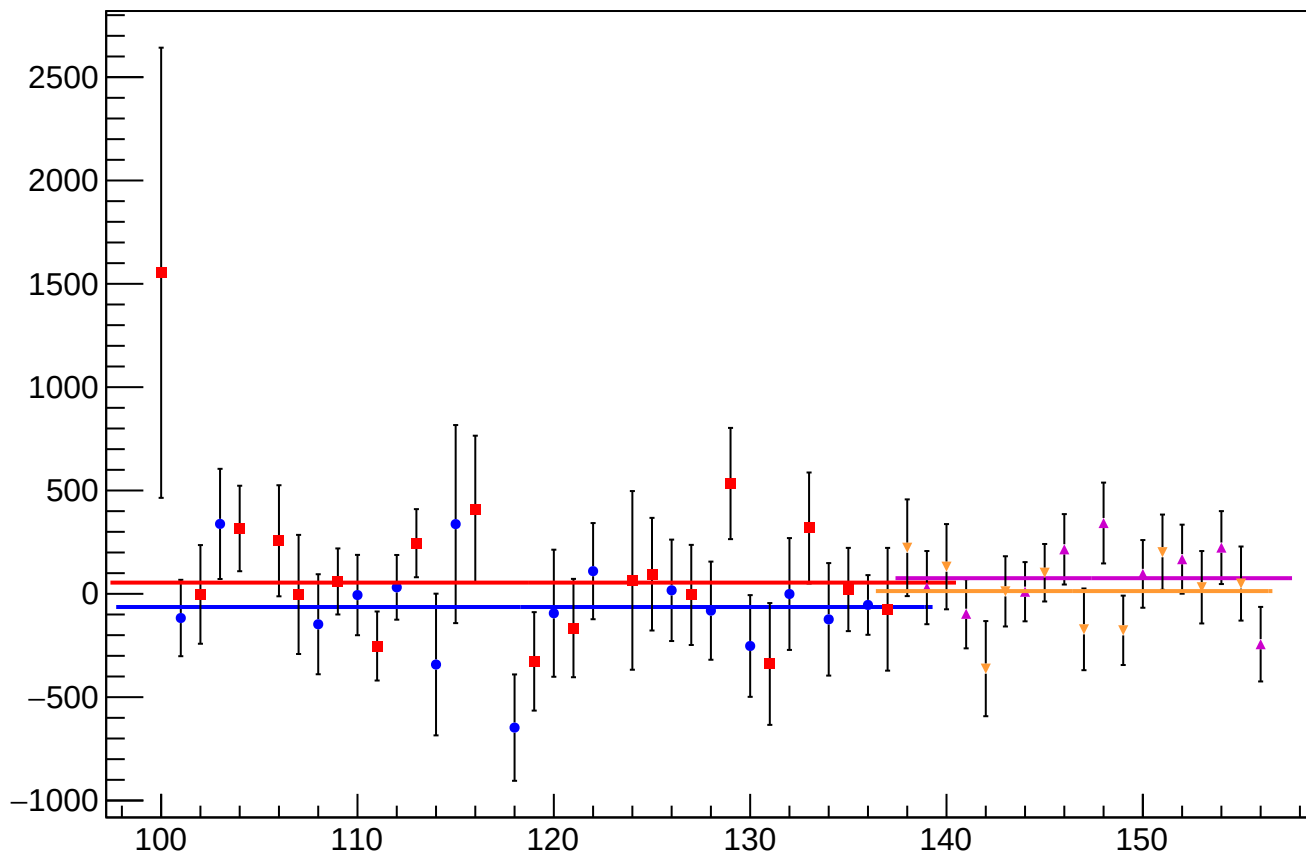
Right: 1246.554 $\pm$ 0.242 χ^2 /NDF: 2593895.7/34

In: 1181.025 $\pm$ 0.223 χ^2 /NDF: 1716032.3/24

Out: 1150.043 $\pm$ 0.216 χ^2 /NDF: 1981445.5/28

All: 1165.072 $\pm$ 0.155 χ^2 /NDF: 3707455.3/53

dit_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -63.781 ± 56.734 χ^2/NDF : 10.8/15

Left Out: 13.276 ± 57.552 χ^2/NDF : 7.5/9

Right Out: 54.305 ± 54.743 χ^2/NDF : 19.5/18

Left In: 75.735 ± 56.528 χ^2/NDF : 8.0/8

Left: 45.067 ± 40.328 χ^2/NDF : 16.1/18

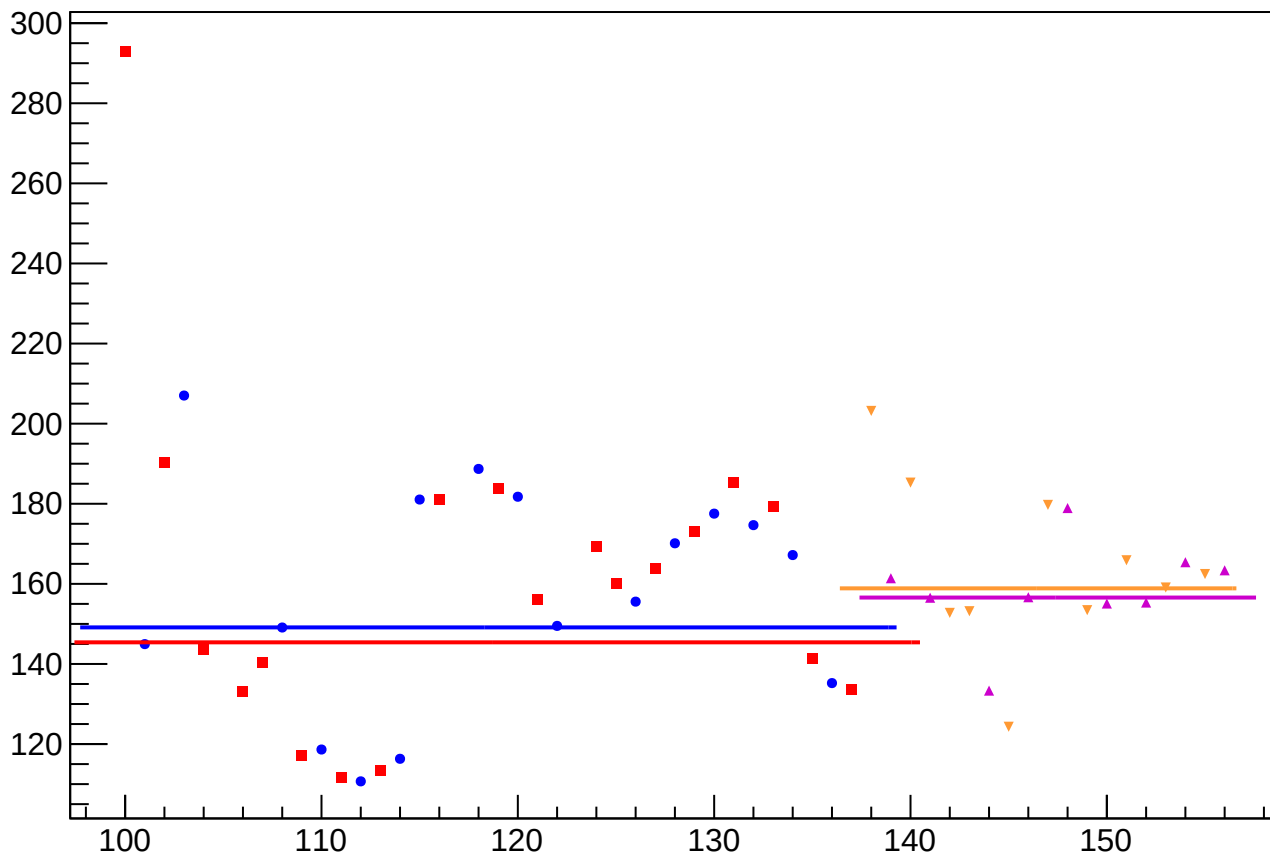
Right: -2.630 ± 39.394 χ^2/NDF : 32.6/34

In: 6.230 ± 40.044 χ^2/NDF : 21.9/24

Out: 34.816 ± 39.665 χ^2/NDF : 27.2/28

All: 20.659 ± 28.180 χ^2/NDF : 49.4/53

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: 158.879 $\pm$ 0.041 χ^2 /NDF:259711.4/9

Right Out: 145.399 $\pm$ 0.039 χ^2 /NDF: 525820.0/18

Left In: 156.580 $\pm$ 0.040 χ^2 /NDF:88357.3/8

Left: 157.709 $\pm$ 0.029 χ^2 /NDF: 349692.6/18

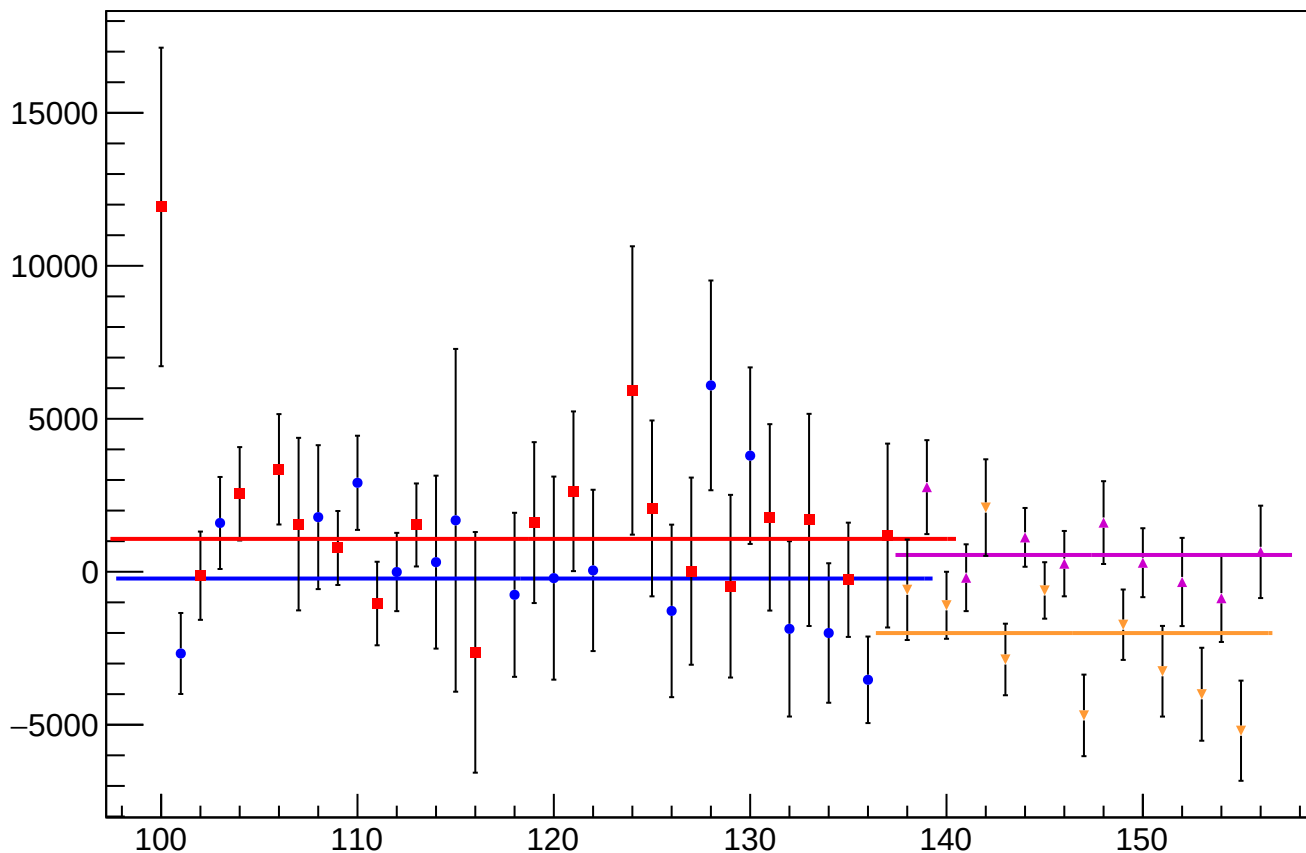
Right: 147.198 $\pm$ 0.028 χ^2 /NDF: 981303.1/34

In: 152.869 $\pm$ 0.028 χ^2 /NDF:556667.8/24

Out: 151.802 $\pm$ 0.028 χ^2 /NDF:843134.0/28

All: 152.330 $\pm$ 0.020 χ^2 /NDF: 1400518.3/53

asym_sam_48_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -221.240 ± 506.202 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -2003.538 ± 405.166 $\chi^2/\text{NDF}: 21.4/9$

Right Out: 1074.433 ± 472.816 $\chi^2/\text{NDF}: 13.6/18$

Left In: 549.100 ± 409.472 $\chi^2/\text{NDF}: 5.0/8$

Left: -740.712 ± 288.006 $\chi^2/\text{NDF}: 46.0/18$

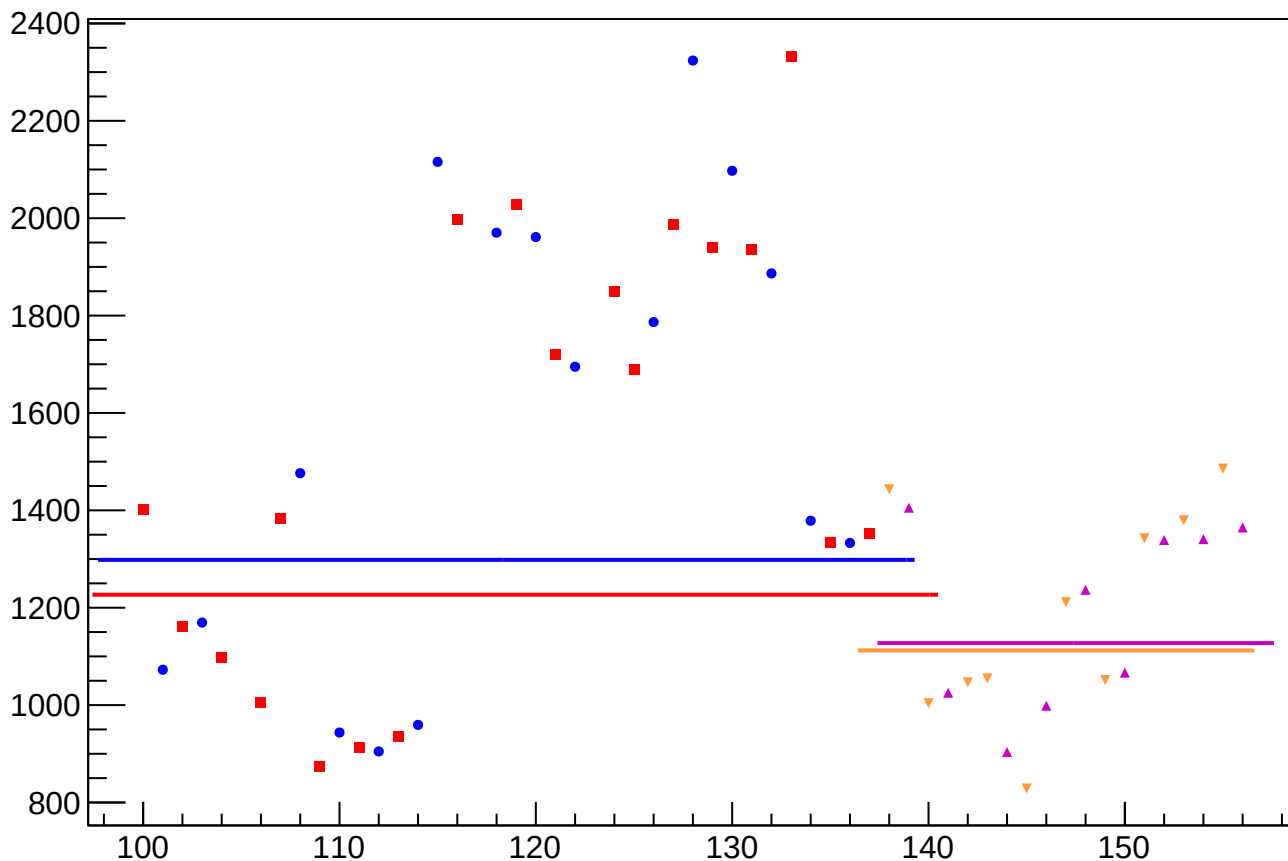
Right: 470.729 ± 345.532 $\chi^2/\text{NDF}: 39.0/34$

In: 244.409 ± 318.355 $\chi^2/\text{NDF}: 28.3/24$

Out: -700.317 ± 307.659 $\chi^2/\text{NDF}: 59.4/28$

All: -244.092 ± 221.233 $\chi^2/\text{NDF}: 92.2/53$

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: 1112.371+/-0.286 χ^2/NDF : 528830.1/9

Right Out: 1226.729+/-0.334 χ^2/NDF : 1404521.7/18

Left In: 1127.395+/-0.290 χ^2/NDF : 376412.7/8

Left: 1119.803+/-0.204 χ^2/NDF : 906603.2/18

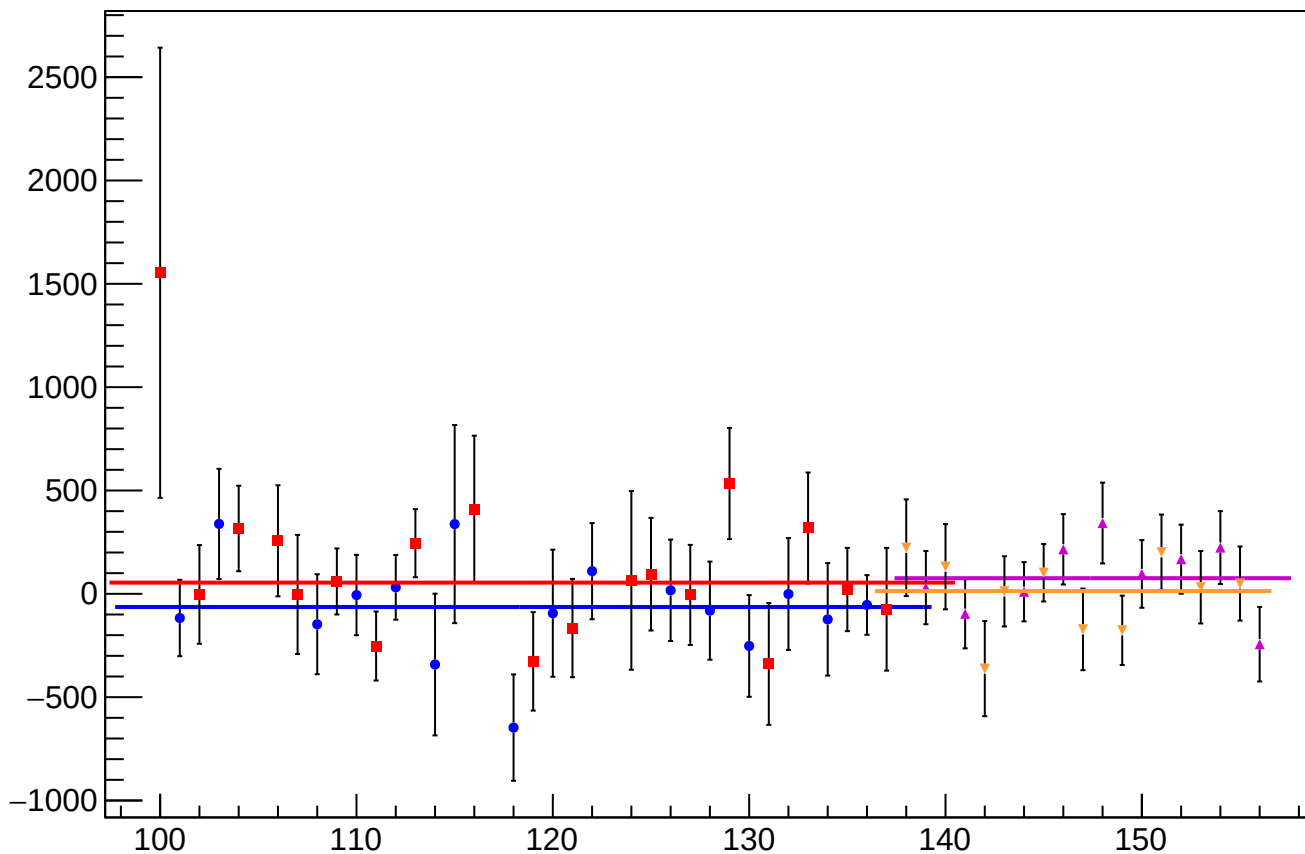
Right: 1260.073+/-0.244 χ^2/NDF : 2607993.3/34

In: 1194.990+/-0.225 χ^2/NDF : 1696330.6/24

Out: 1160.790+/-0.218 χ^2/NDF : 2000812.1/28

All: 1177.306+/-0.156 χ^2/NDF : 3709077.5/53

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: 13.278 ± 57.552 χ^2/NDF : 7.5/9

Right Out: 54.304 ± 54.743 χ^2/NDF : 19.5/18

Left In: 75.737 ± 56.528 χ^2/NDF : 8.0/8

Left: 45.068 ± 40.329 χ^2/NDF : 16.1/18

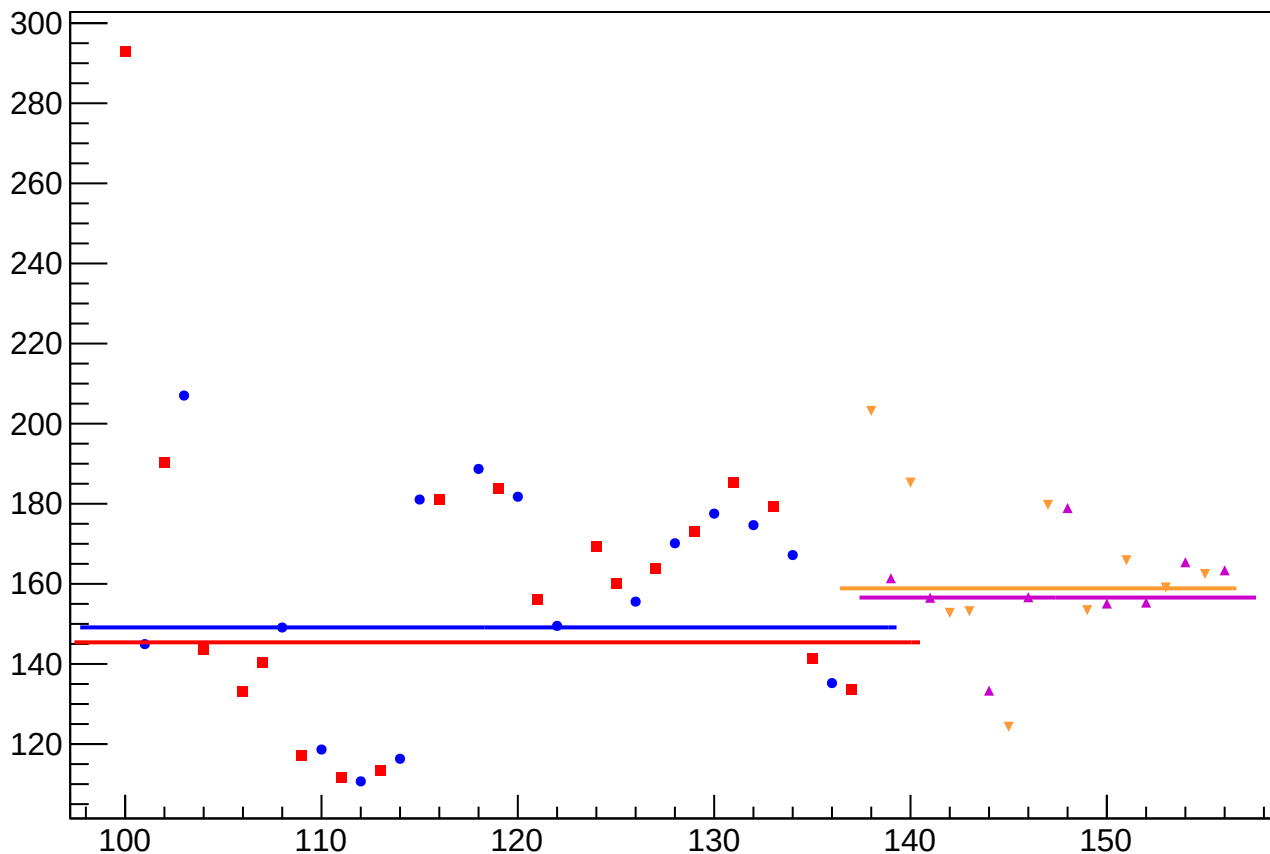
Right: -2.629 ± 39.394 χ^2/NDF : 32.6/34

In: 6.232 ± 40.044 χ^2/NDF : 21.9/24

Out: 34.817 ± 39.665 χ^2/NDF : 27.2/28

All: 20.660 ± 28.180 χ^2/NDF : 49.4/53

eigen_dit_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.130 $\pm$ 0.040 χ^2 /NDF: 451005.1/15

Left Out: 158.879 $\pm$ 0.041 χ^2 /NDF:259705.4/9

Right Out: 145.399 $\pm$ 0.039 χ^2 /NDF: 525822.2/18

Left In: 156.581 $\pm$ 0.040 χ^2 /NDF:88355.9/8

Left: 157.710 $\pm$ 0.029 χ^2 /NDF: 349685.2/18

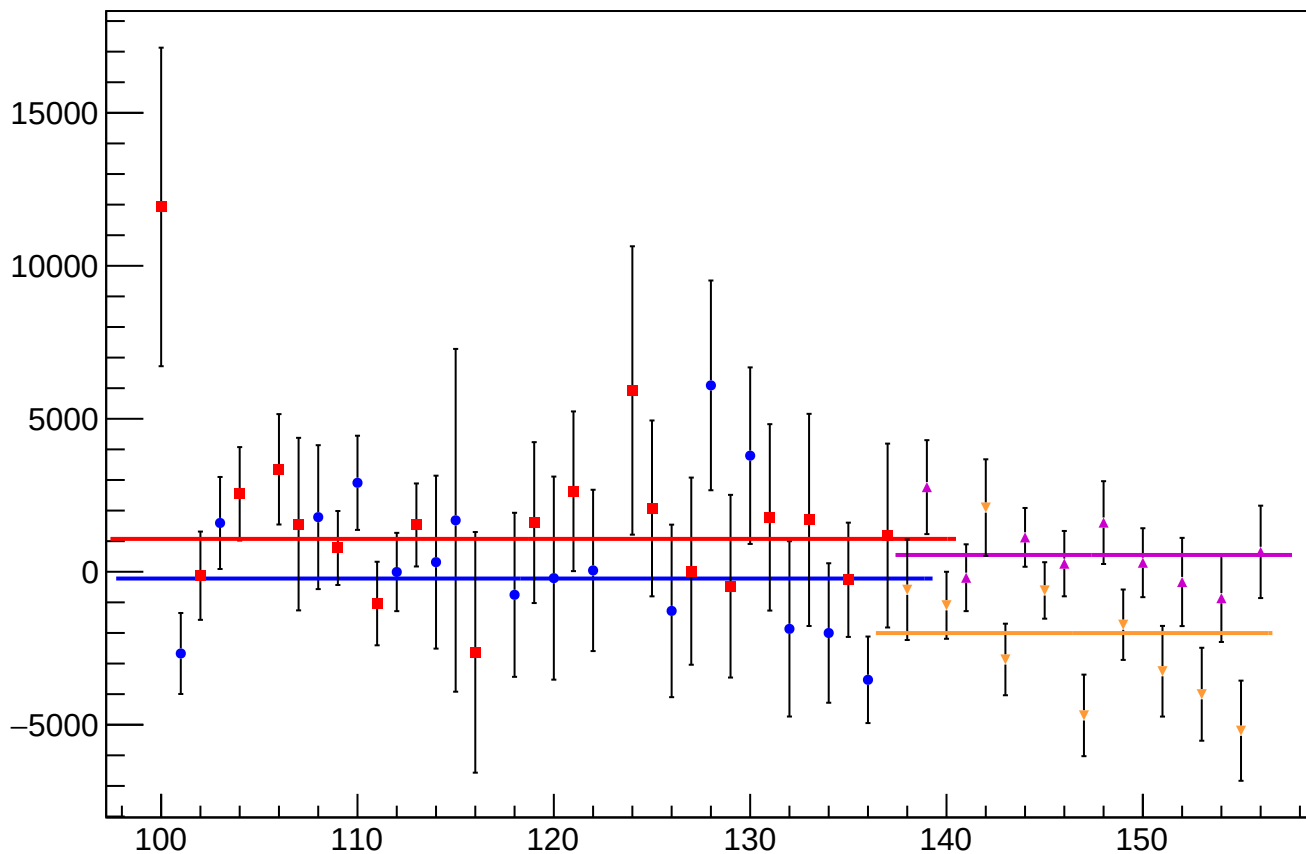
Right: 147.198 $\pm$ 0.028 χ^2 /NDF: 981307.0/34

In: 152.869 $\pm$ 0.028 χ^2 /NDF:556669.8/24

Out: 151.802 $\pm$ 0.028 χ^2 /NDF:843134.2/28

All: 152.331 $\pm$ 0.020 χ^2 /NDF: 1400520.5/53

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: -2003.536+/-405.165 χ^2/NDF :21.4/9

Right Out: 1074.432+/-472.816 χ^2/NDF : 13.6/18

Left In: 549.099+/-409.472 χ^2/NDF :5.0/8

Left: -740.711+/-288.006 χ^2/NDF : 46.0/18

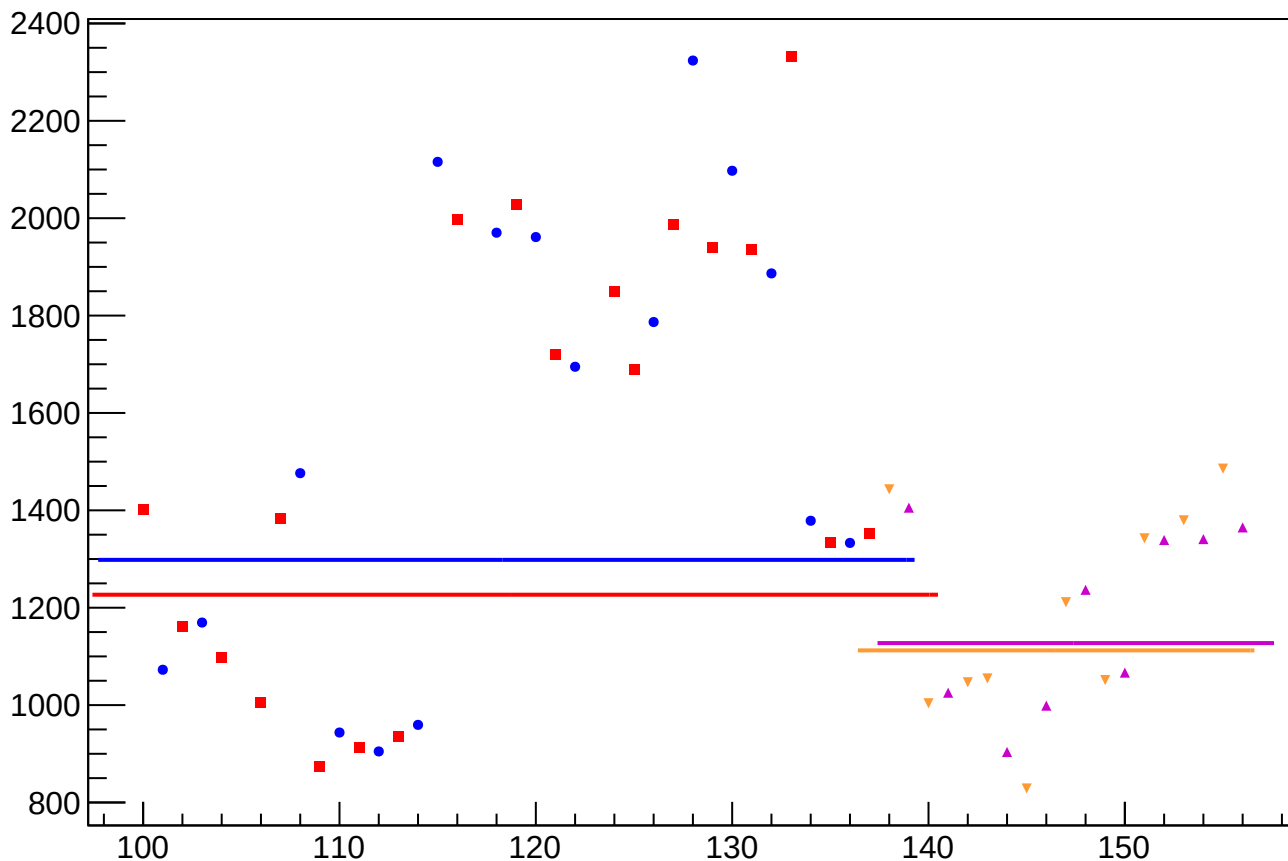
Right: 470.728+/-345.531 χ^2/NDF : 39.0/34

In: 244.409+/-318.355 χ^2/NDF :28.3/24

Out: -700.316+/-307.658 χ^2/NDF :59.4/28

All: -244.092+/-221.232 χ^2/NDF : 92.2/53

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: 1112.369+/-0.286 χ^2/NDF : 528832.7/9

Right Out: 1226.727+/-0.334 χ^2/NDF : 1404524.7/18

Left In: 1127.394+/-0.290 χ^2/NDF : 376411.6/8

Left: 1119.802+/-0.204 χ^2/NDF : 906604.9/18

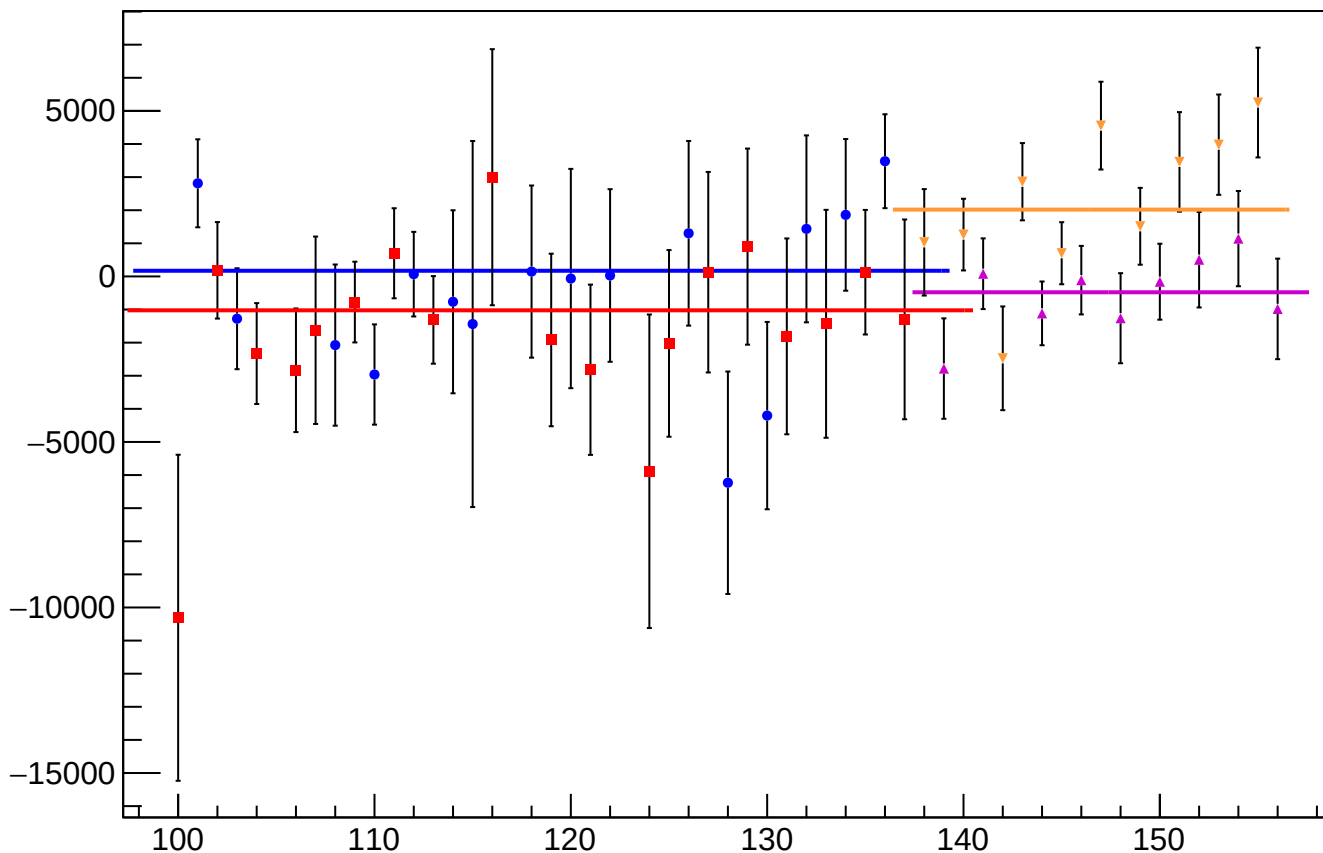
Right: 1260.072+/-0.244 χ^2/NDF : 2608000.5/34

In: 1194.989+/-0.225 χ^2/NDF : 1696333.1/24

Out: 1160.789+/-0.218 χ^2/NDF : 2000818.0/28

All: 1177.305+/-0.156 χ^2/NDF : 3709086.2/53

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 171.056+/-505.136 χ^2/NDF : 22.6/15

Left Out: 2018.352+/-405.738 χ^2/NDF : 21.8/9

Right Out: -1023.699+/-472.008 χ^2/NDF : 11.6/18

Left In: -478.713+/-407.491 χ^2/NDF : 5.4/8

Left: 775.203+/-287.518 χ^2/NDF : 46.1/18

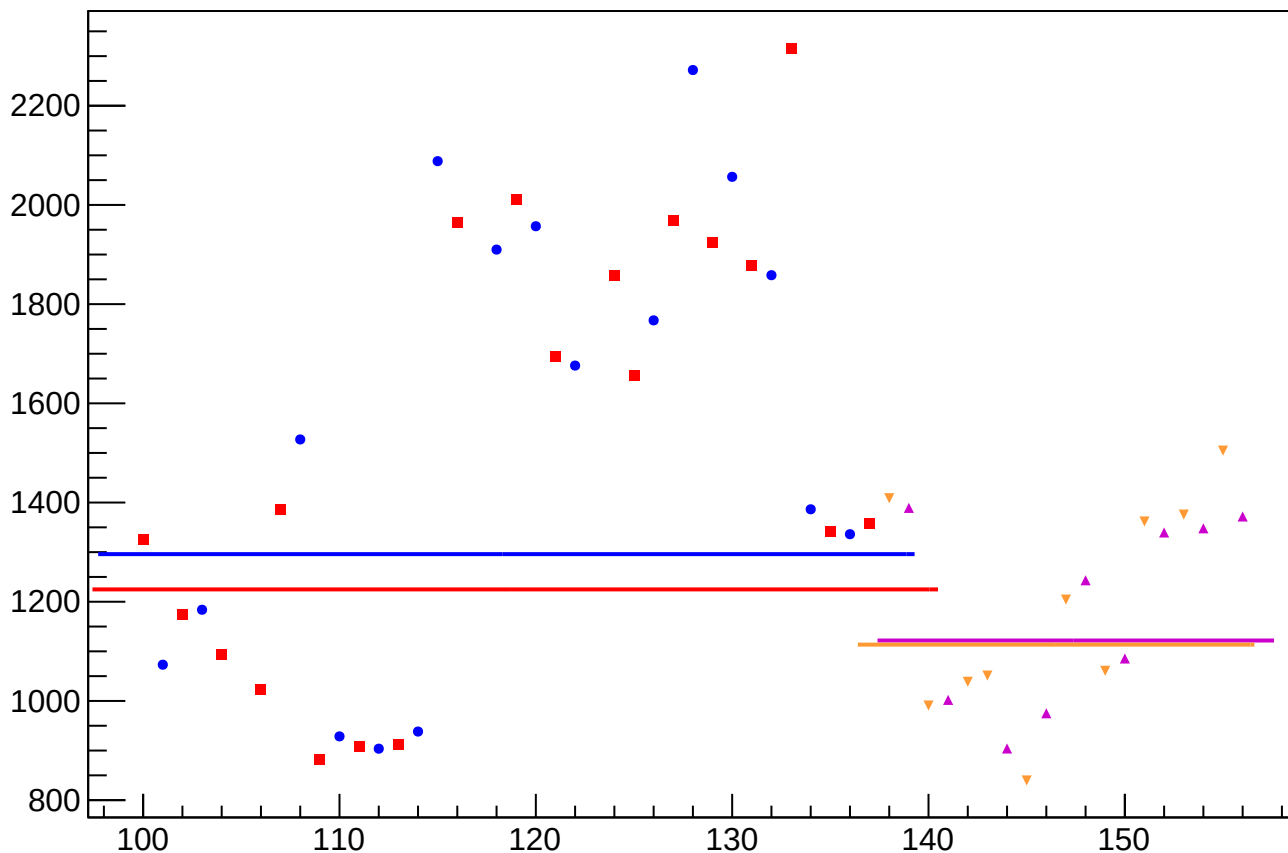
Right: -466.780+/-344.877 χ^2/NDF : 37.1/34

In: -222.563+/-317.158 χ^2/NDF : 29.0/24

Out: 725.703+/-307.685 χ^2/NDF : 57.3/28

All: 265.943+/-220.839 χ^2/NDF : 90.9/53

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1295.987+/-0.357

χ^2/NDF : 1154185.9/15

Left Out: 1113.532+/-0.287

χ^2/NDF : 513498.0/9

Right Out: 1224.872+/-0.334

χ^2/NDF : 1371285.2/18

Left In: 1121.831+/-0.288

χ^2/NDF : 396944.4/8

Left: 1117.663+/-0.203

χ^2/NDF : 910858.9/18

Right: 1258.021+/-0.244

χ^2/NDF : 2546633.6/34

In: 1190.486+/-0.224

χ^2/NDF : 1695145.8/24

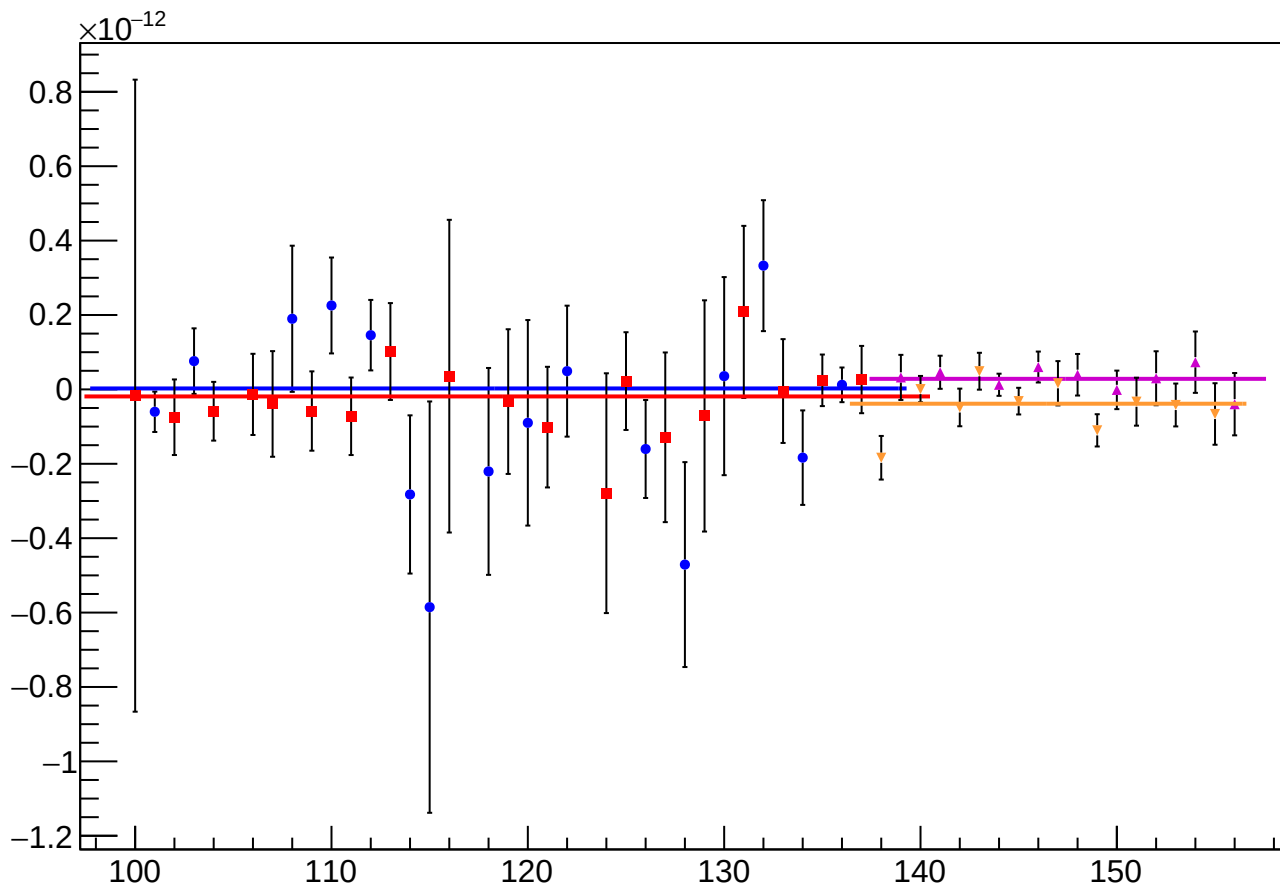
Out: 1160.843+/-0.218

χ^2/NDF : 1948779.3/28

All: 1175.215+/-0.156

χ^2/NDF : 3652925.3/53

asym_sam_48_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.2/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 14.3/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 4.7/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 2.4/8$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 25.3/18$

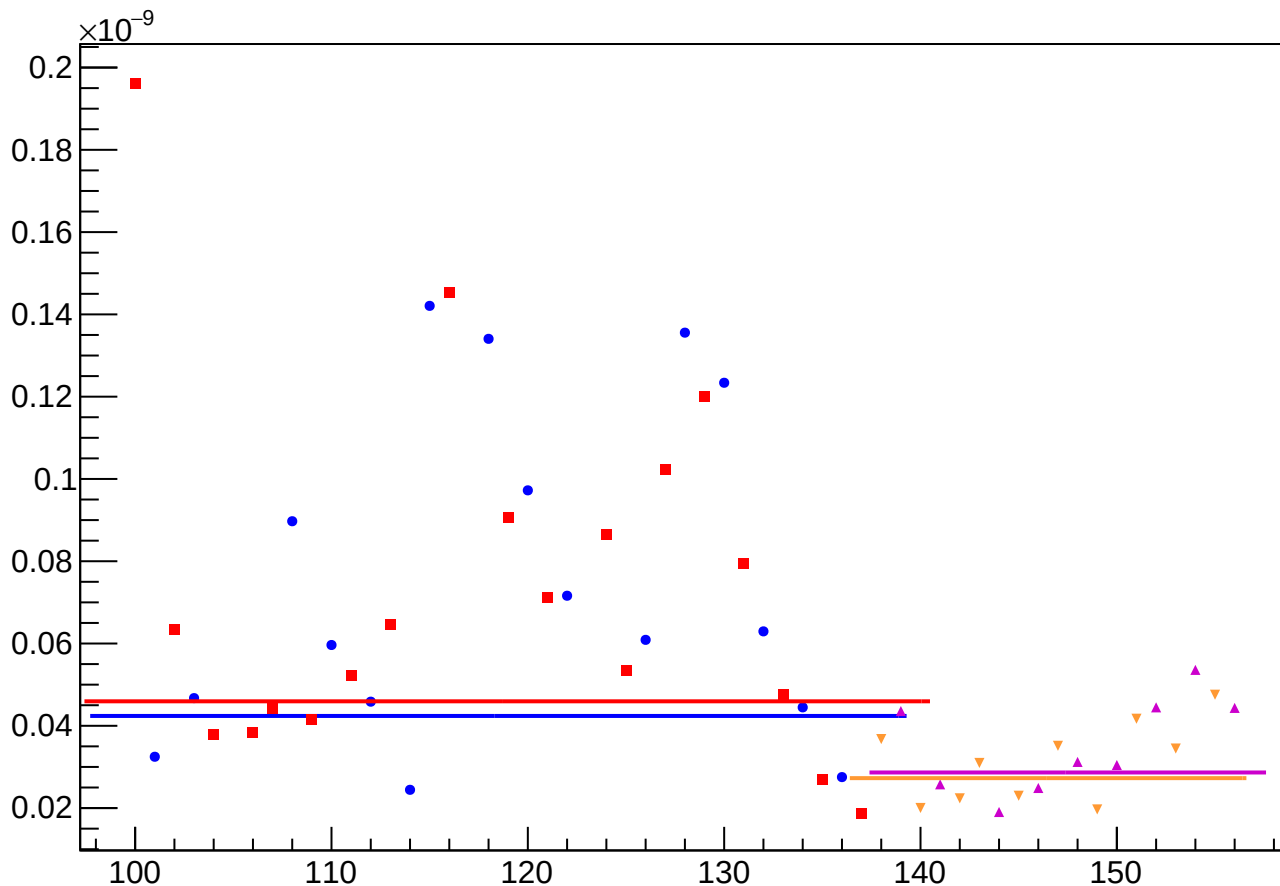
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 27.2/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 25.2/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 19.4/28$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 52.5/53$

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 : 543124.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1118551.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 709303.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1259796.4/18

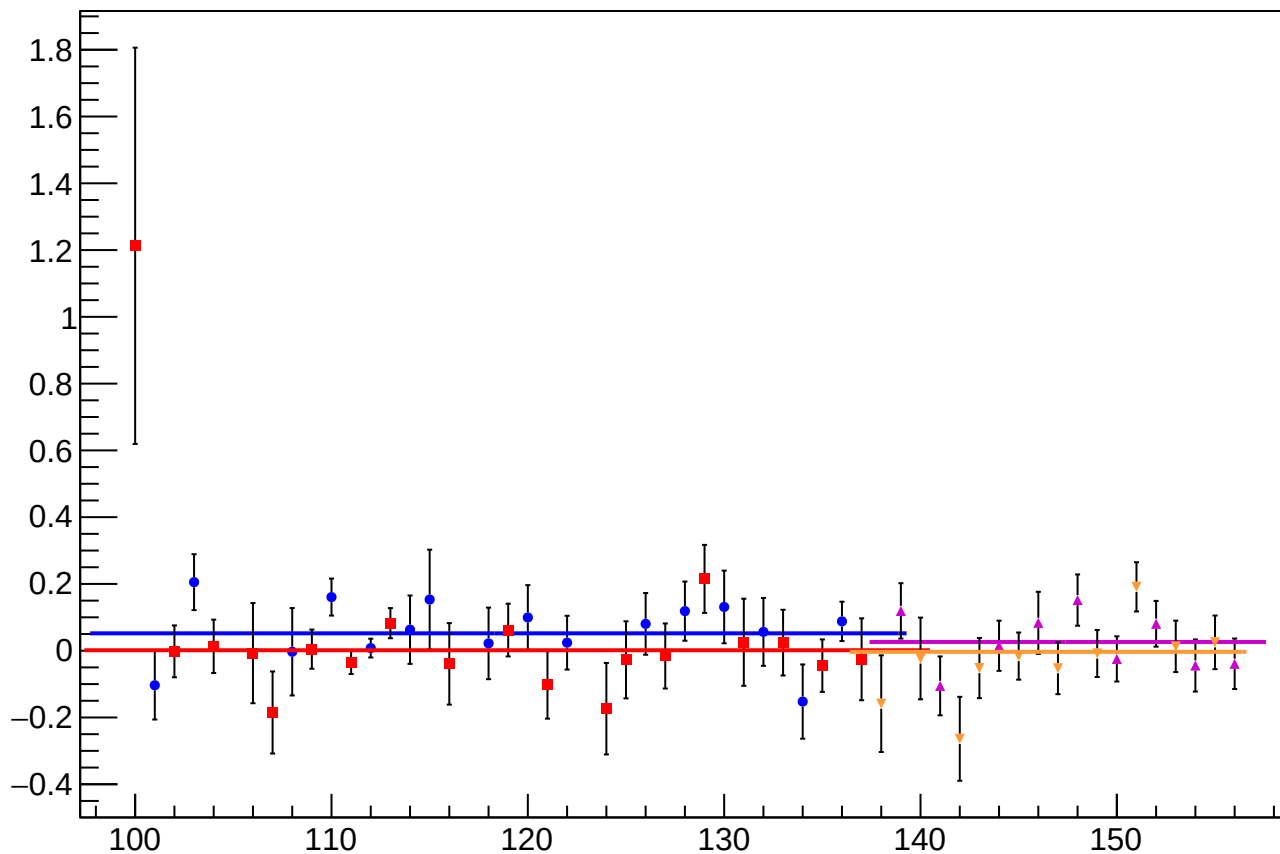
Right: 0.000+/-0.000 χ^2/NDF : 2476096.3/34

In: 0.000+/-0.000 χ^2/NDF : 2430804.8/24

Out: 0.000+/-0.000 χ^2/NDF : 2311100.1/28

All: 0.000+/-0.000 χ^2/NDF : 4746986.8/53

asym_sam_48_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.003 ± 0.027 $\chi^2/\text{NDF}: 13.3/9$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.026 ± 0.026 $\chi^2/\text{NDF}: 9.3/8$

Left: 0.012 ± 0.019 $\chi^2/\text{NDF}: 23.3/18$

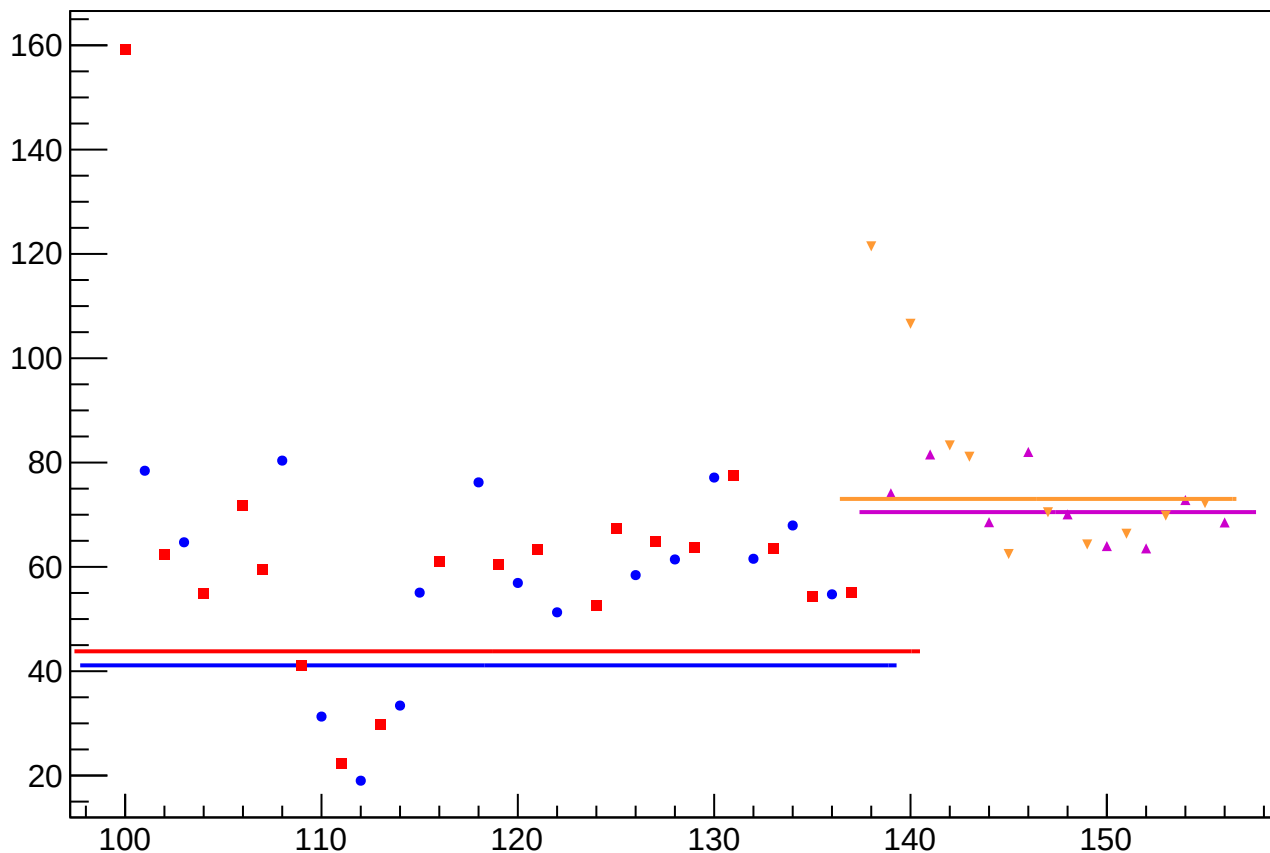
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.044 ± 0.015 $\chi^2/\text{NDF}: 28.0/24$

Out: -0.000 ± 0.015 $\chi^2/\text{NDF}: 32.6/28$

All: 0.022 ± 0.010 $\chi^2/\text{NDF}: 64.9/53$

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: 73.031+/-0.019 χ^2/NDF : 501788.9/9

Right Out: 43.813+/-0.013 χ^2/NDF : 2048452.0/18

Left In: 70.503+/-0.018 χ^2/NDF : 109556.1/8

Left: 71.710+/-0.013 χ^2/NDF : 620542.5/18

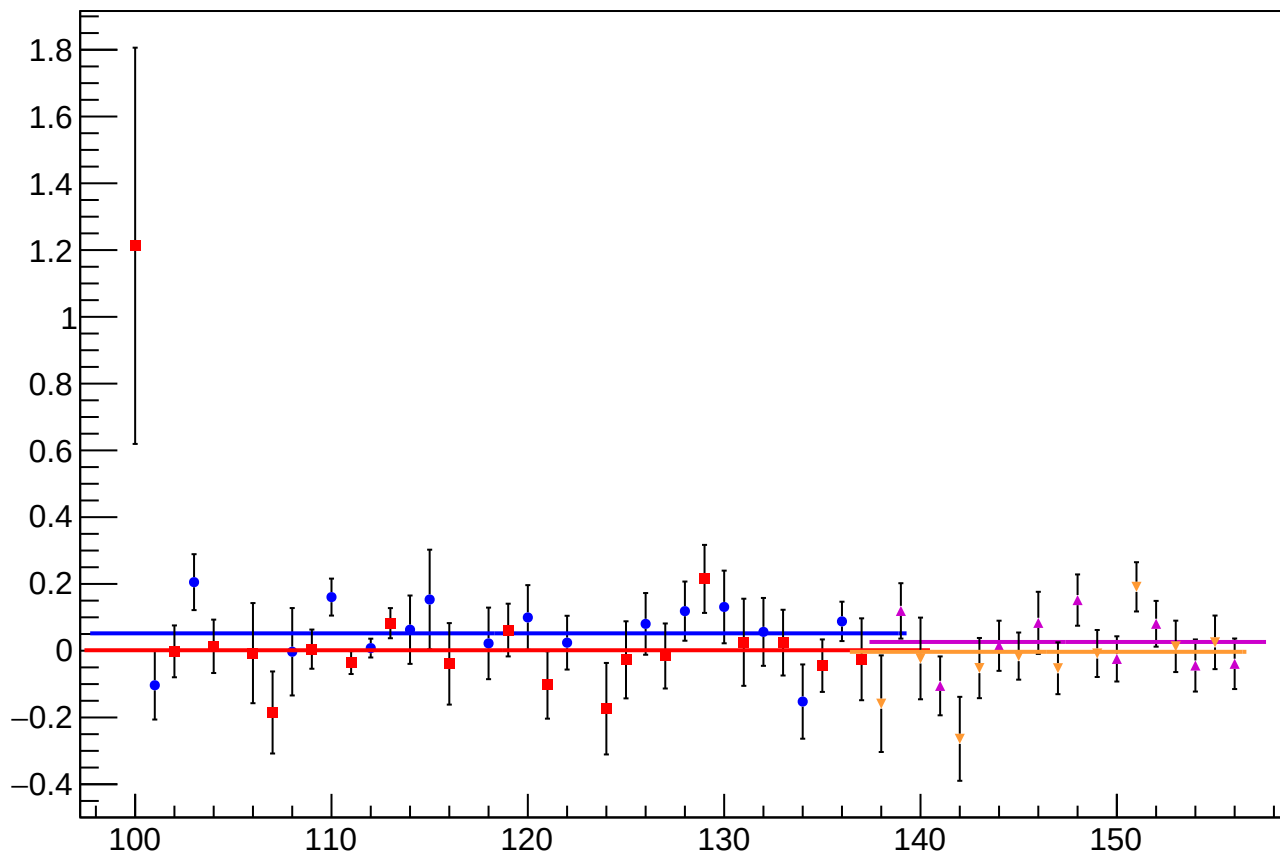
Right: 42.455+/-0.009 χ^2/NDF : 4996519.9/34

In: 50.590+/-0.010 χ^2/NDF : 4796849.5/24

Out: 52.777+/-0.011 χ^2/NDF : 4180027.3/28

All: 51.662+/-0.007 χ^2/NDF : 8998773.2/53

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.003 ± 0.027 $\chi^2/\text{NDF}: 13.3/9$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.026 ± 0.026 $\chi^2/\text{NDF}: 9.3/8$

Left: 0.012 ± 0.019 $\chi^2/\text{NDF}: 23.3/18$

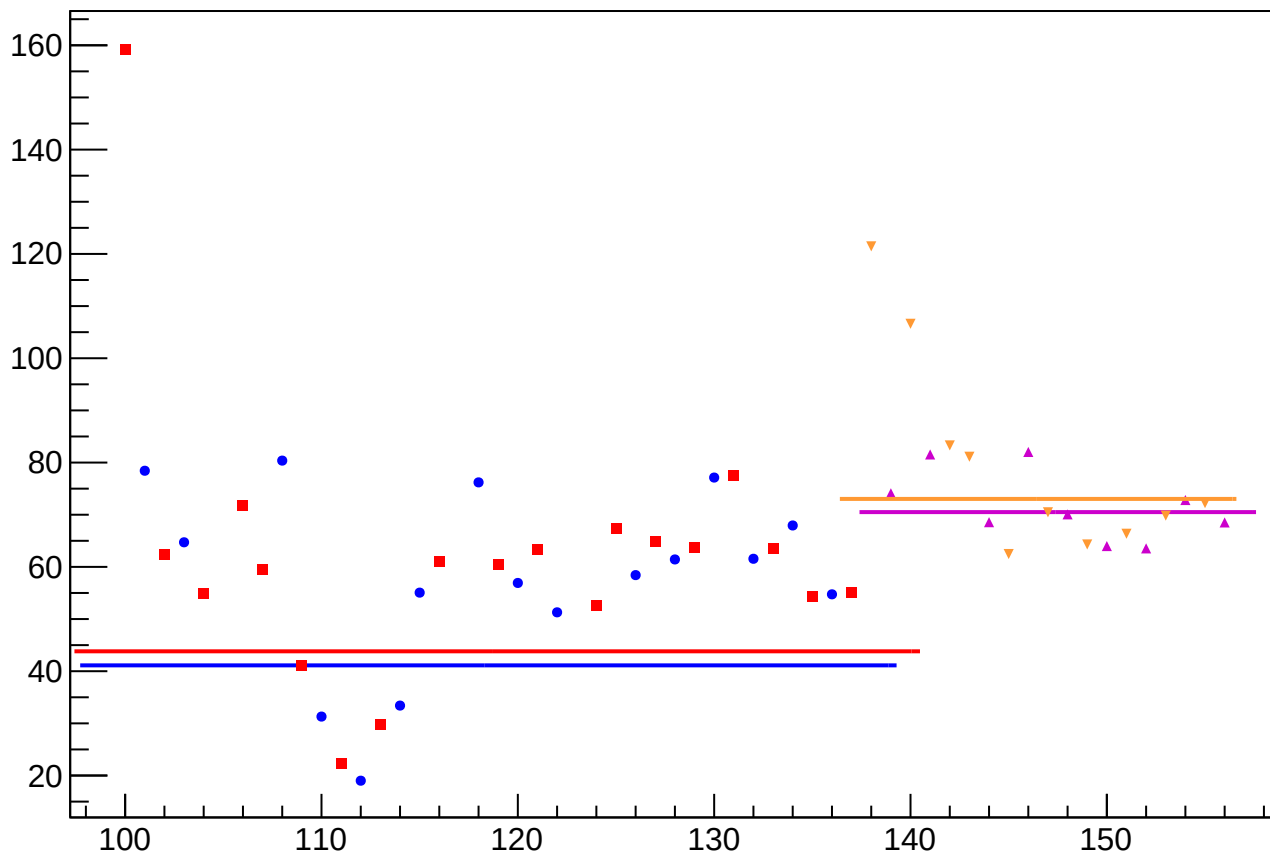
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.044 ± 0.015 $\chi^2/\text{NDF}: 28.0/24$

Out: -0.000 ± 0.015 $\chi^2/\text{NDF}: 32.6/28$

All: 0.022 ± 0.010 $\chi^2/\text{NDF}: 64.9/53$

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.120 $\pm$ 0.013 χ^2 /NDF: 2925302.3/15

Left Out: 73.031 $\pm$ 0.019 χ^2 /NDF: 501788.9/9

Right Out: 43.813 $\pm$ 0.013 χ^2 /NDF: 2048452.0/18

Left In: 70.503 $\pm$ 0.018 χ^2 /NDF: 109556.1/8

Left: 71.710 $\pm$ 0.013 χ^2 /NDF: 620542.5/18

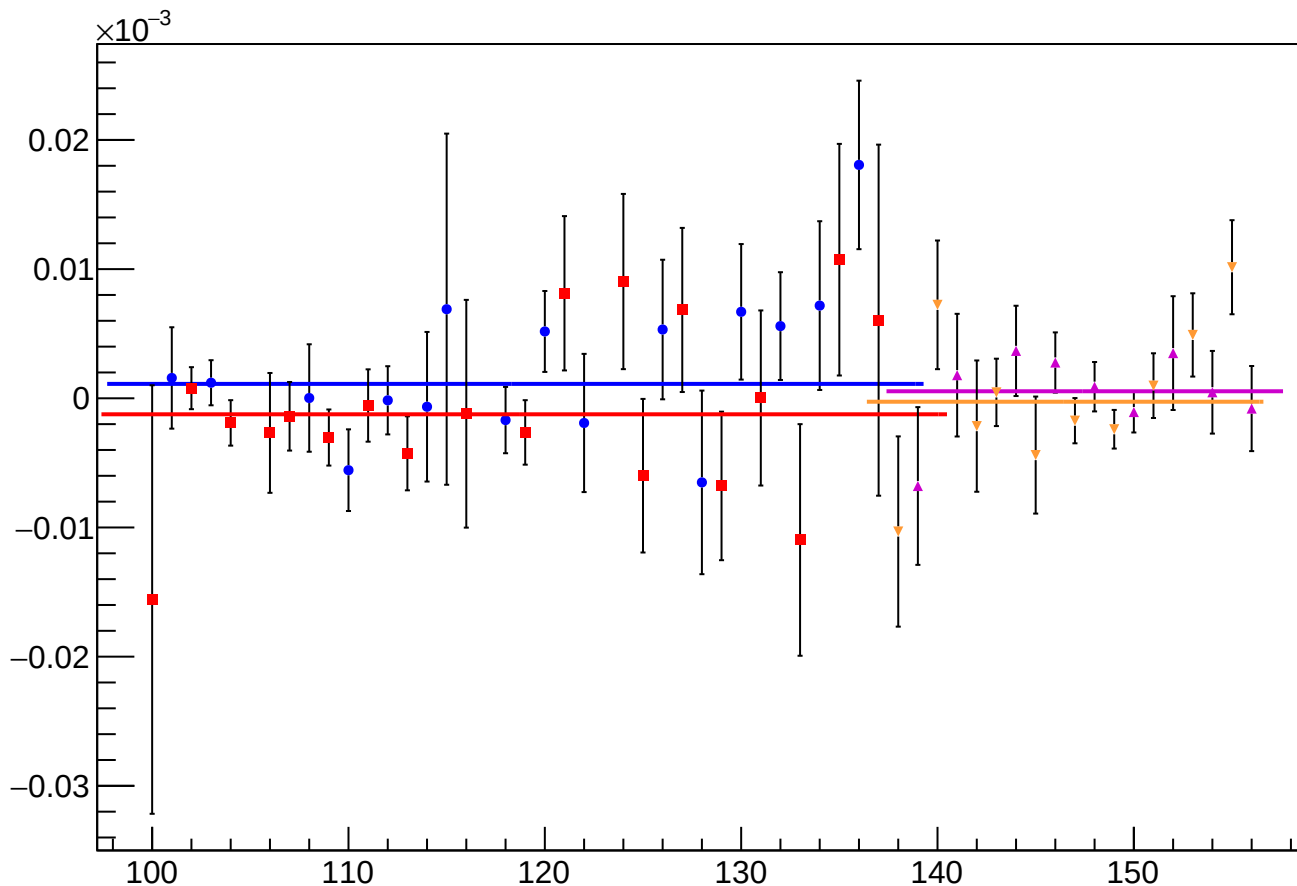
Right: 42.455 $\pm$ 0.009 χ^2 /NDF: 4996519.9/34

In: 50.590 $\pm$ 0.010 χ^2 /NDF: 4796849.5/24

Out: 52.777 $\pm$ 0.011 χ^2 /NDF: 4180027.3/28

All: 51.662 $\pm$ 0.007 χ^2 /NDF: 8998773.2/53

asym_sam_48_avg_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 : 18.9/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 4.9/8

Left: 0.000 ± 0.000 χ^2/NDF : 24.2/18

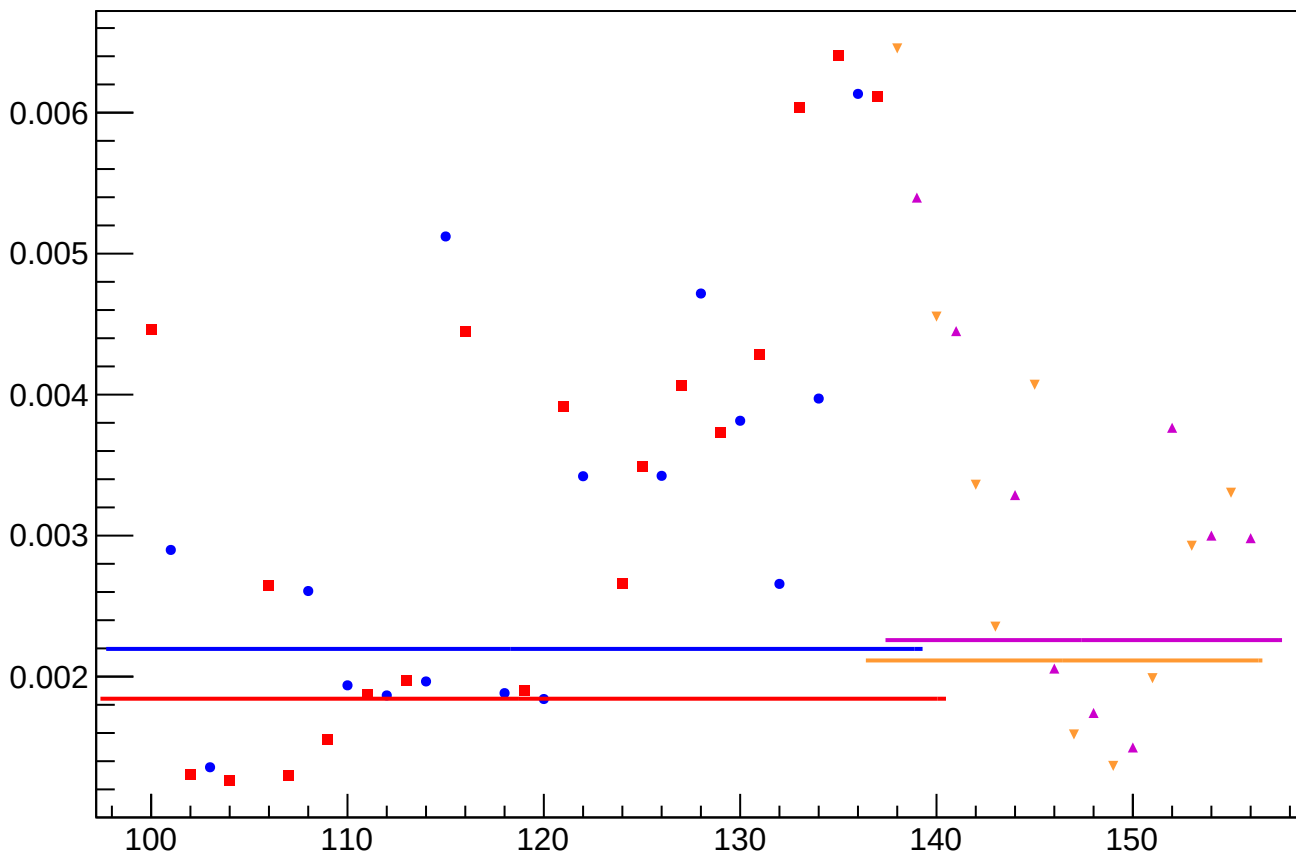
Right: -0.000 ± 0.000 χ^2/NDF : 39.8/34

In: 0.000 ± 0.000 χ^2/NDF : 25.0/24

Out: -0.000 ± 0.000 χ^2/NDF : 35.6/28

All: -0.000 ± 0.000 χ^2/NDF : 64.2/53

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: 0.002+/-0.000 χ^2/NDF :2709820.3/9

Right Out: 0.002+/-0.000 χ^2/NDF : 3137598.0/18

Left In: 0.002+/-0.000 χ^2/NDF :2189456.2/8

Left: 0.002+/-0.000 χ^2/NDF : 4926793.7/18

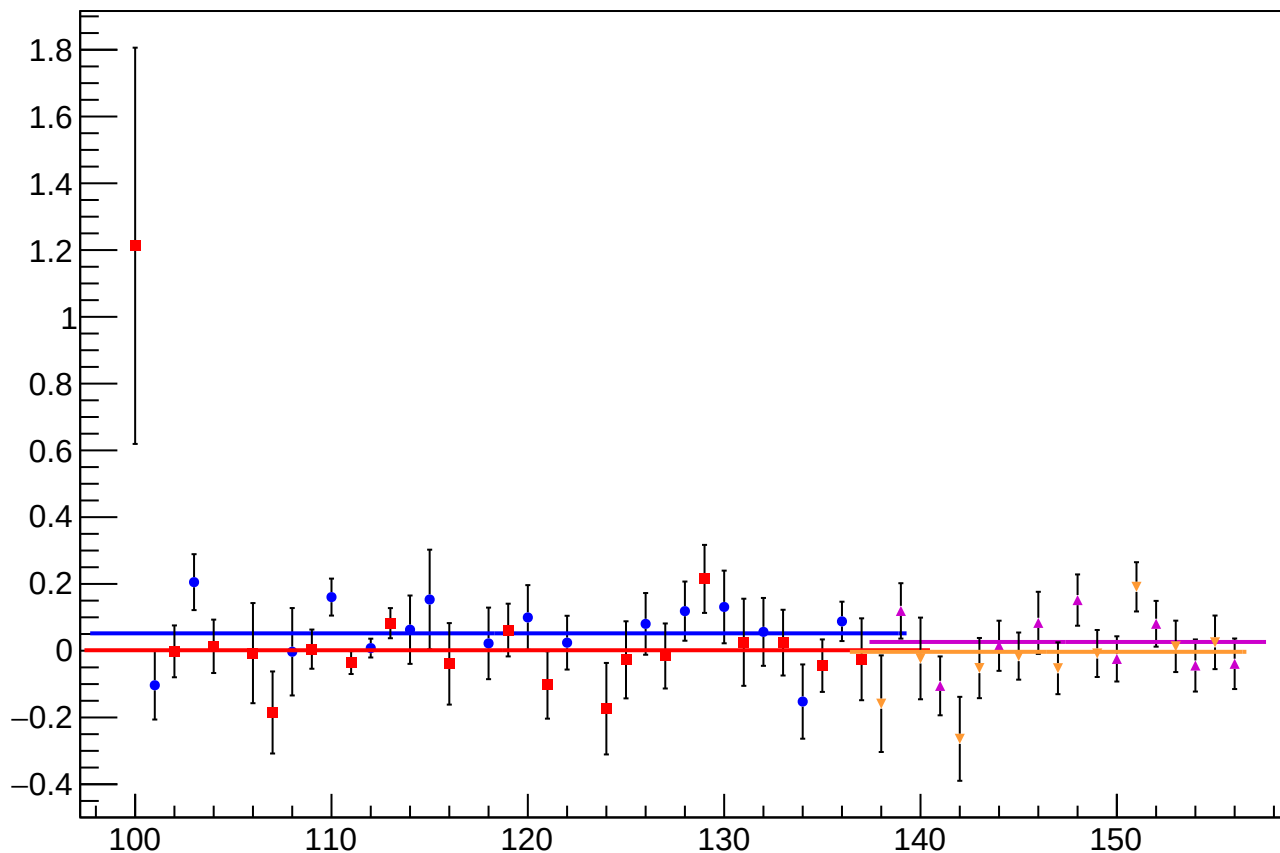
Right: 0.002+/-0.000 χ^2/NDF : 5607793.8/34

In: 0.002+/-0.000 χ^2/NDF :4487166.2/24

Out: 0.002+/-0.000 χ^2/NDF :5960712.8/28

All: 0.002+/-0.000 χ^2/NDF : 10638246.7/53

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.003 ± 0.027 $\chi^2/\text{NDF}: 13.3/9$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.026 ± 0.026 $\chi^2/\text{NDF}: 9.3/8$

Left: 0.012 ± 0.019 $\chi^2/\text{NDF}: 23.3/18$

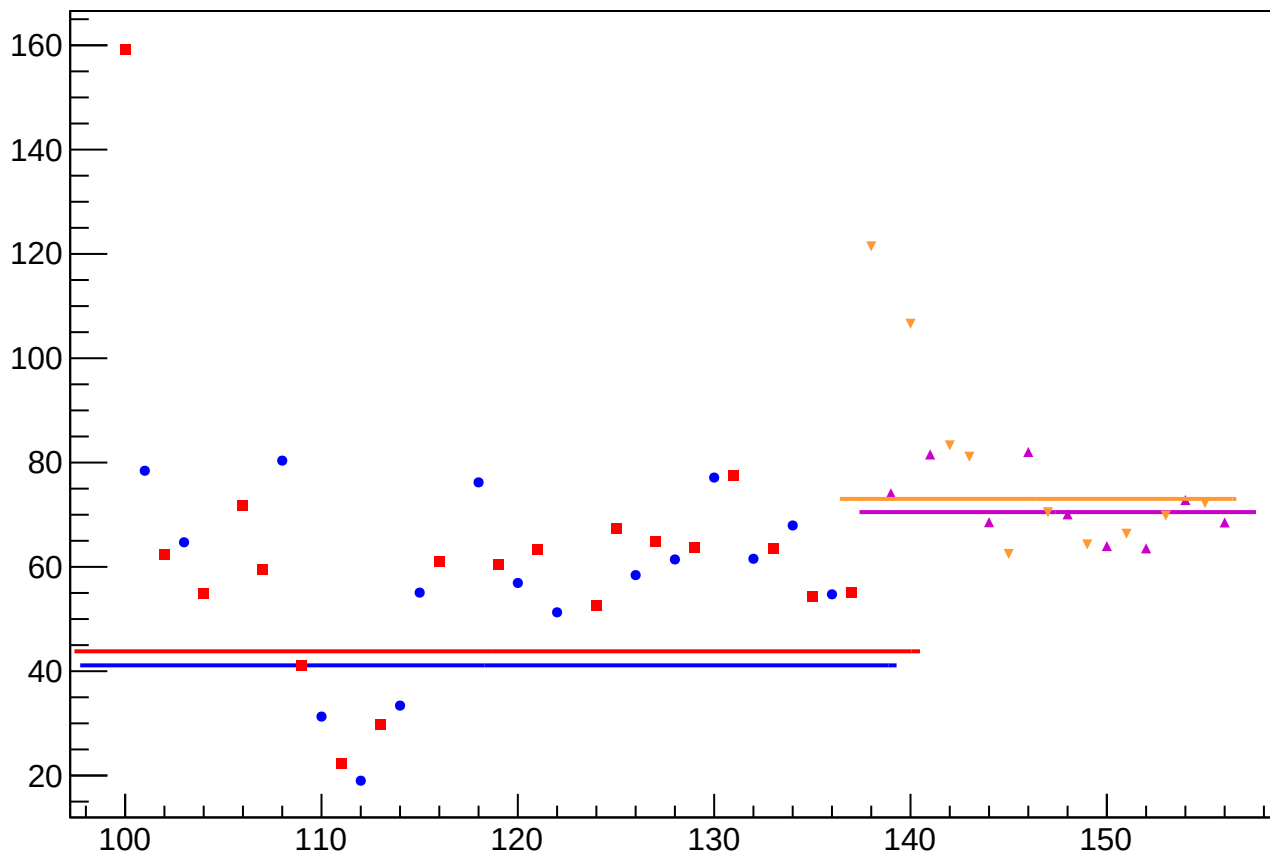
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.044 ± 0.015 $\chi^2/\text{NDF}: 28.0/24$

Out: -0.000 ± 0.015 $\chi^2/\text{NDF}: 32.6/28$

All: 0.022 ± 0.010 $\chi^2/\text{NDF}: 64.9/53$

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119 $\pm$ 0.013 χ^2 /NDF: 2925464.8/15

Left Out: 73.032 $\pm$ 0.019 χ^2 /NDF: 501764.9/9

Right Out: 43.813 $\pm$ 0.013 χ^2 /NDF: 2048627.9/18

Left In: 70.503 $\pm$ 0.018 χ^2 /NDF: 109553.9/8

Left: 71.711 $\pm$ 0.013 χ^2 /NDF: 620516.8/18

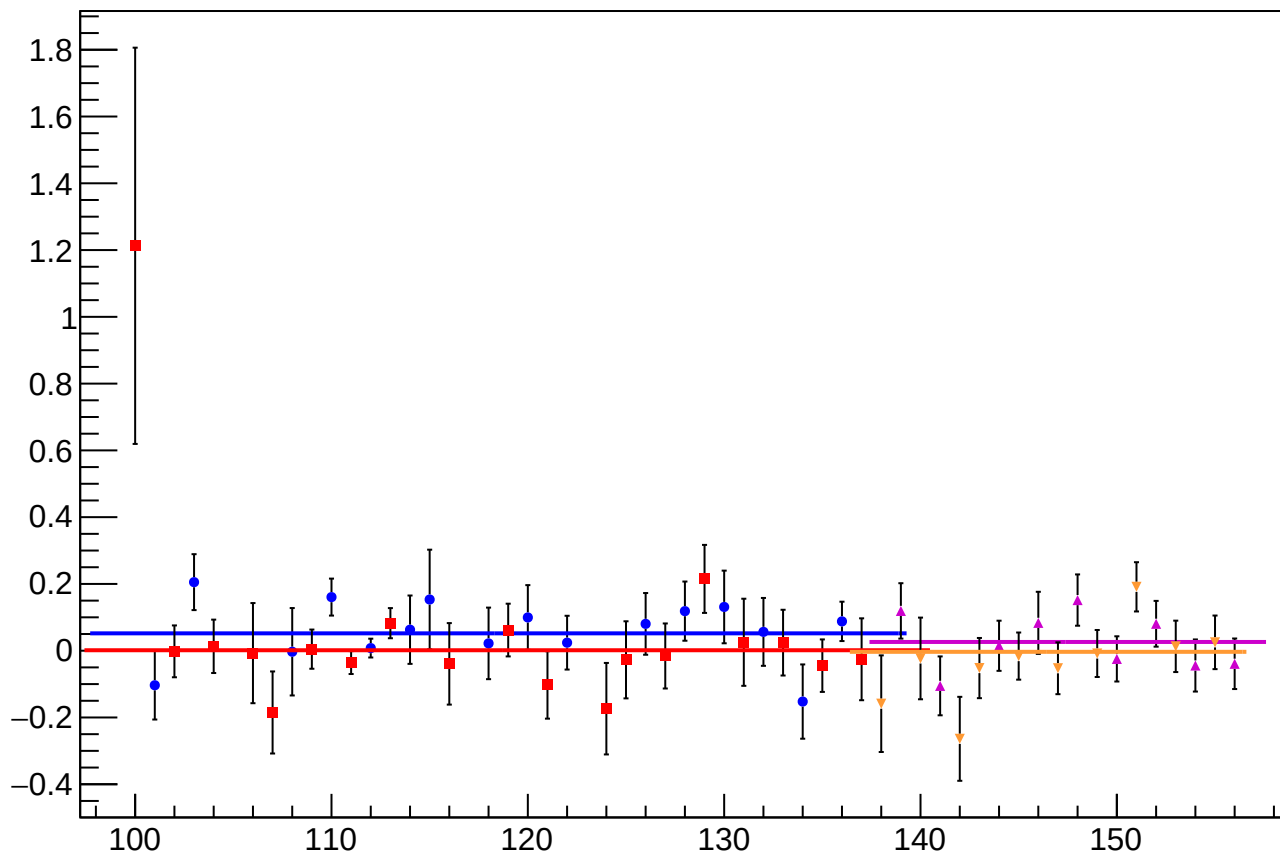
Right: 42.454 $\pm$ 0.009 χ^2 /NDF: 4996859.3/34

In: 50.590 $\pm$ 0.010 χ^2 /NDF: 4797206.5/24

Out: 52.777 $\pm$ 0.011 χ^2 /NDF: 4180366.4/28

All: 51.661 $\pm$ 0.007 χ^2 /NDF: 8999470.5/53

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.003 ± 0.027 $\chi^2/\text{NDF}: 13.3/9$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.026 ± 0.026 $\chi^2/\text{NDF}: 9.3/8$

Left: 0.012 ± 0.019 $\chi^2/\text{NDF}: 23.3/18$

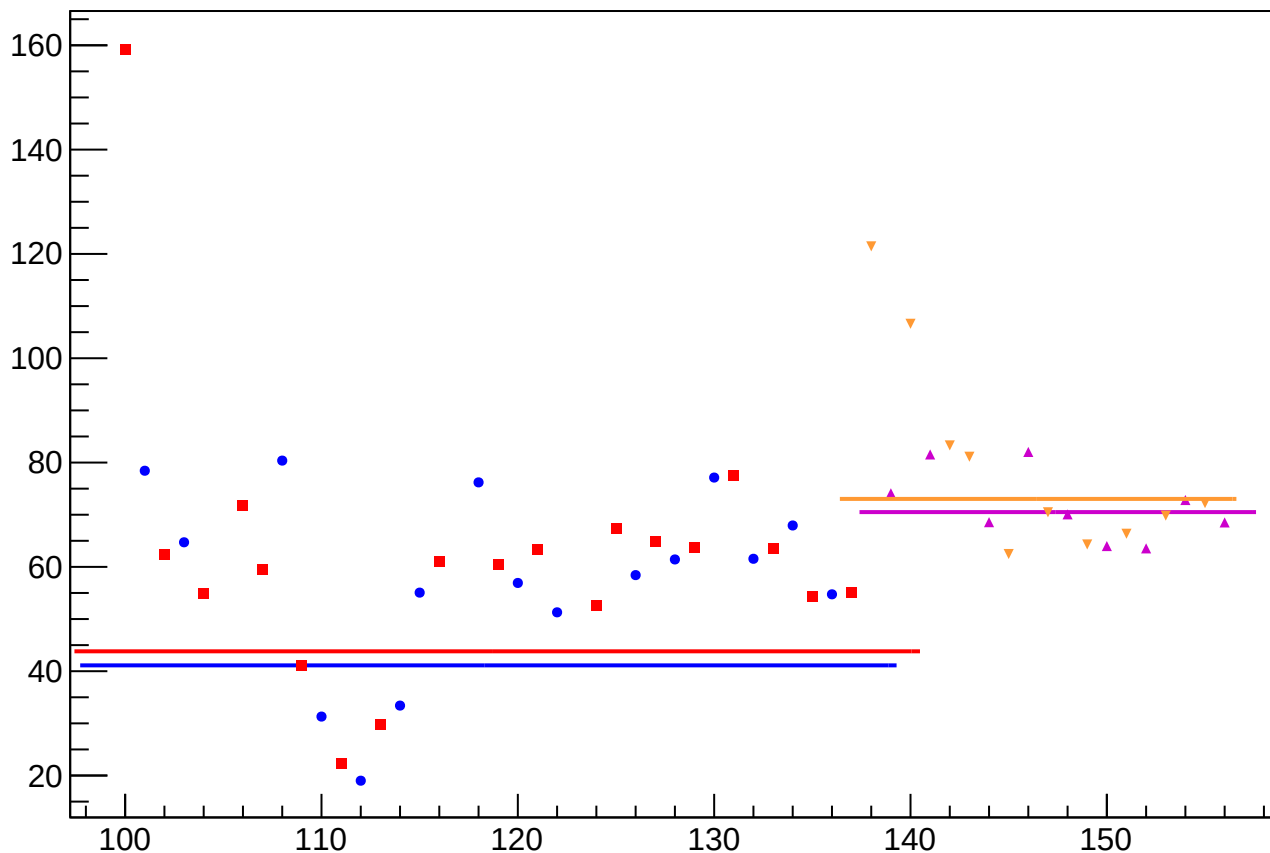
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.044 ± 0.015 $\chi^2/\text{NDF}: 28.0/24$

Out: -0.000 ± 0.015 $\chi^2/\text{NDF}: 32.6/28$

All: 0.022 ± 0.010 $\chi^2/\text{NDF}: 64.9/53$

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119 $\pm$ 0.013 χ^2/NDF : 2925464.8/15

Left Out: 73.032 $\pm$ 0.019 χ^2/NDF : 501764.9/9

Right Out: 43.813 $\pm$ 0.013 χ^2/NDF : 2048627.9/18

Left In: 70.503 $\pm$ 0.018 χ^2/NDF : 109553.9/8

Left: 71.711 $\pm$ 0.013 χ^2/NDF : 620516.8/18

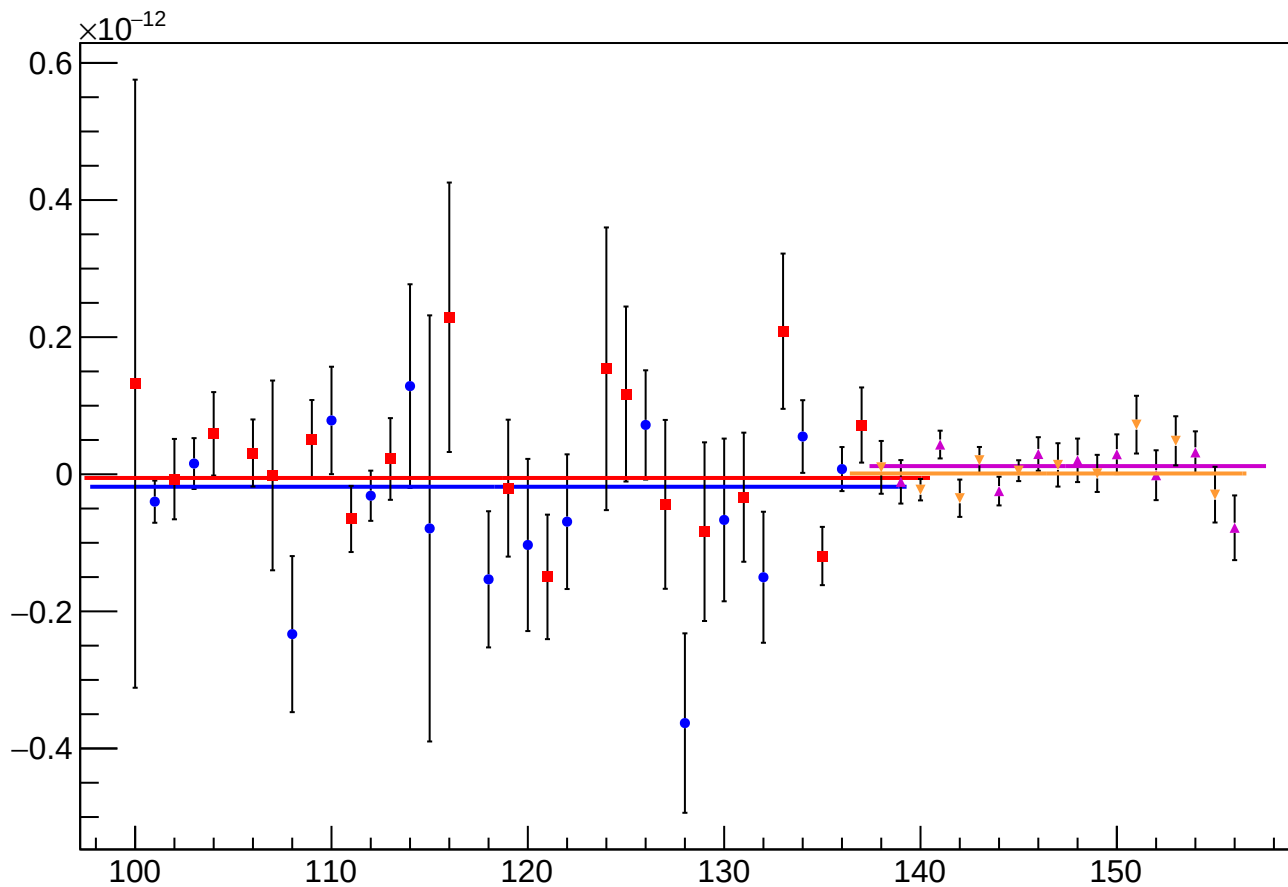
Right: 42.454 $\pm$ 0.009 χ^2/NDF : 4996859.3/34

In: 50.590 $\pm$ 0.010 χ^2/NDF : 4797206.5/24

Out: 52.777 $\pm$ 0.011 χ^2/NDF : 4180366.4/28

All: 51.661 $\pm$ 0.007 χ^2/NDF : 8999470.5/53

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 : 10.5/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 23.3/18

Left In: 0.000 ± 0.000 χ^2/NDF : 11.1/8

Left: 0.000 ± 0.000 χ^2/NDF : 22.5/18

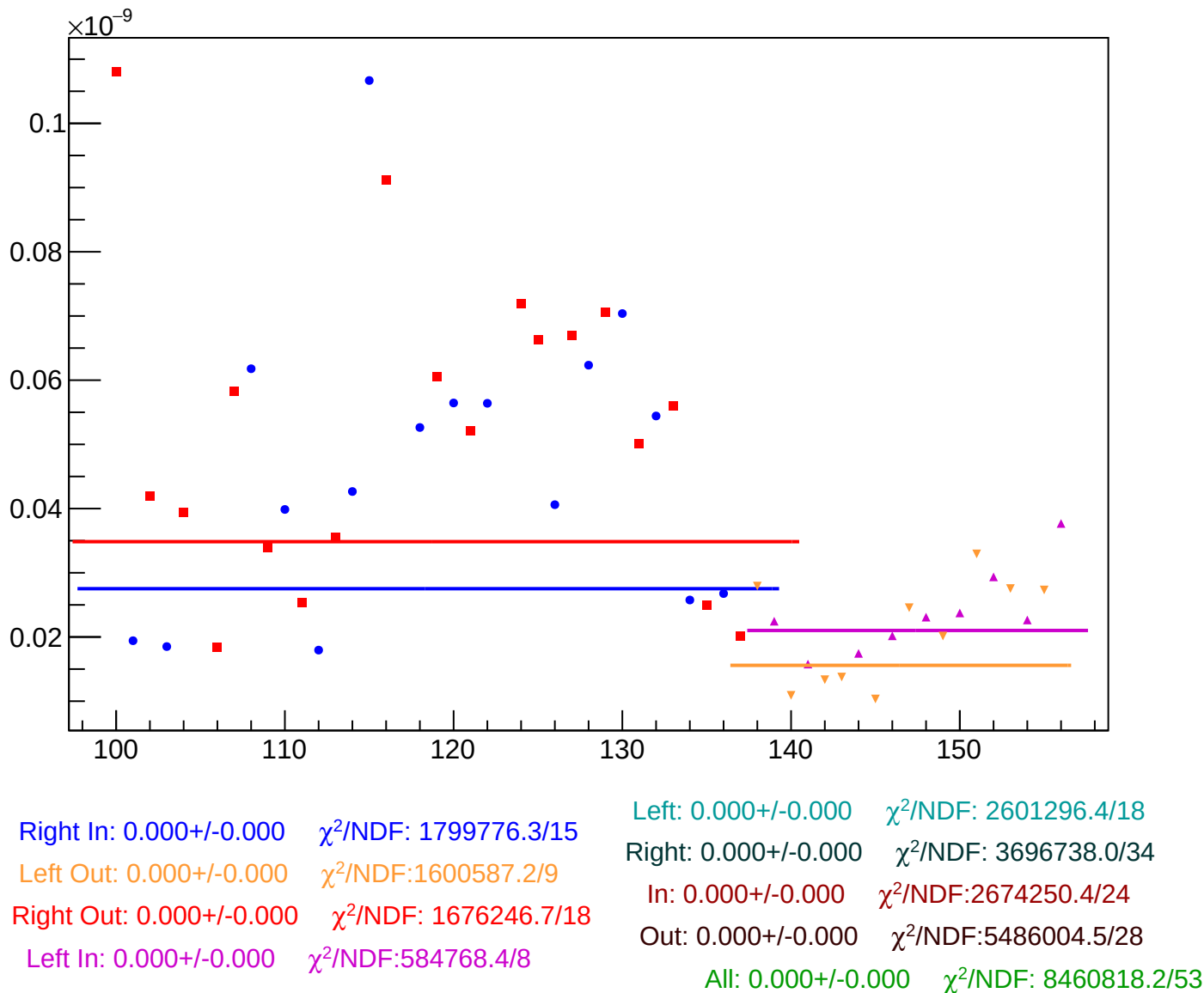
Right: -0.000 ± 0.000 χ^2/NDF : 46.6/34

In: 0.000 ± 0.000 χ^2/NDF : 37.2/24

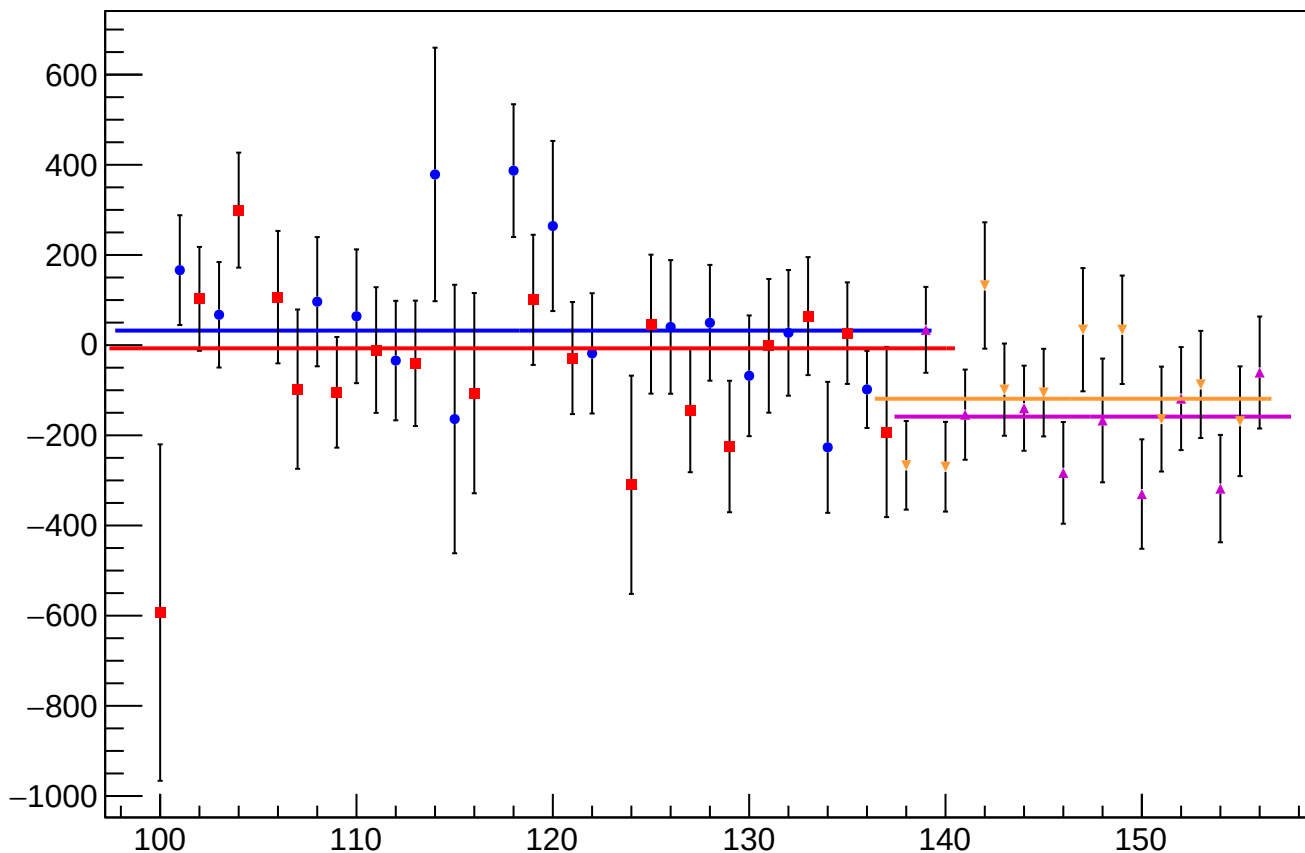
Out: 0.000 ± 0.000 χ^2/NDF : 34.0/28

All: 0.000 ± 0.000 χ^2/NDF : 71.2/53

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.297 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$

Left Out: -118.862 ± 35.540 $\chi^2/\text{NDF}: 11.1/9$

Right Out: -7.070 ± 33.420 $\chi^2/\text{NDF}: 17.8/18$

Left In: -158.566 ± 36.909 $\chi^2/\text{NDF}: 9.9/8$

Left: -137.964 ± 25.601 $\chi^2/\text{NDF}: 21.6/18$

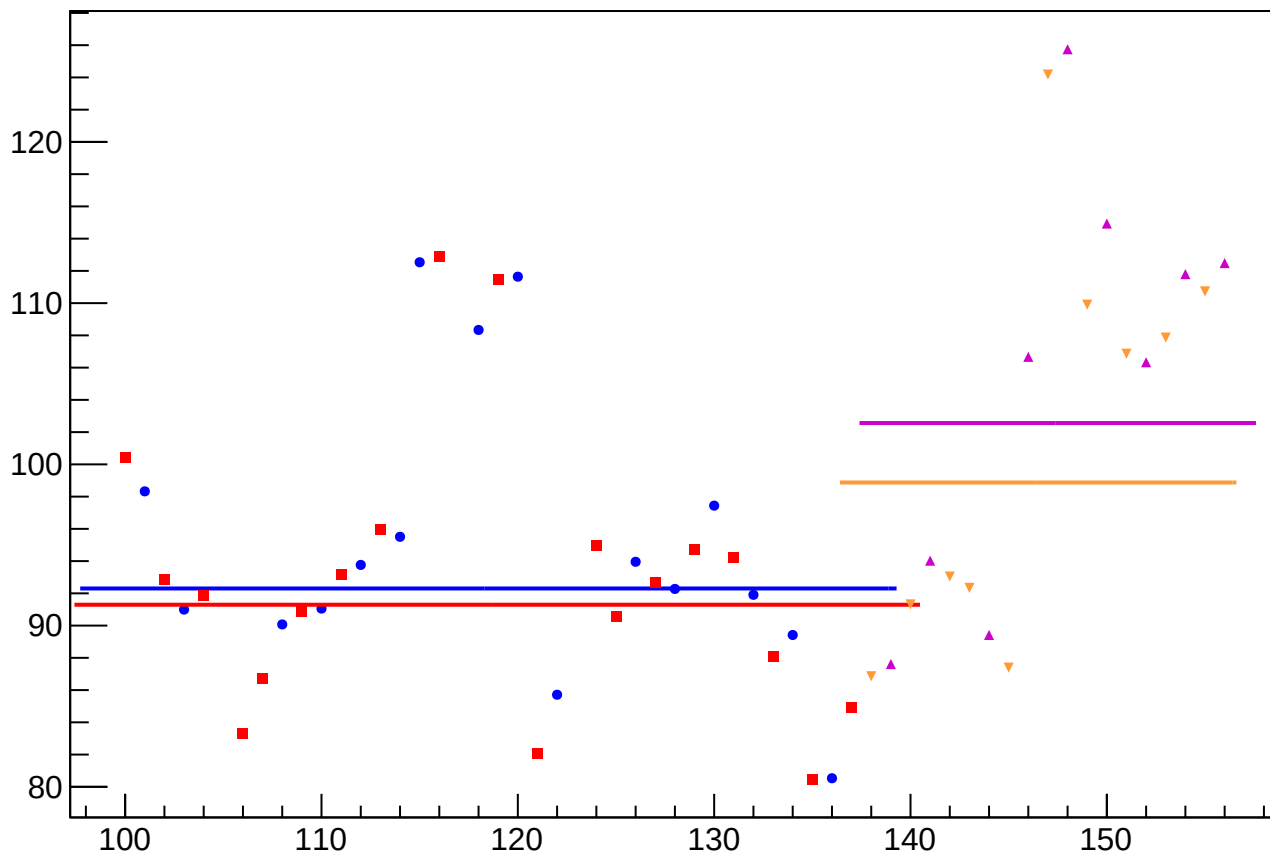
Right: 12.028 ± 23.980 $\chi^2/\text{NDF}: 35.7/34$

In: -56.506 ± 25.176 $\chi^2/\text{NDF}: 41.5/24$

Out: -59.532 ± 24.347 $\chi^2/\text{NDF}: 34.1/28$

All: -58.070 ± 17.501 $\chi^2/\text{NDF}: 75.6/53$

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: 98.875 $\pm$ 0.025 χ^2 /NDF: 206192.5/9

Right Out: 91.294 $\pm$ 0.024 χ^2 /NDF: 105096.6/18

Left In: 102.564 $\pm$ 0.026 χ^2 /NDF: 210101.1/8

Left: 100.650 $\pm$ 0.018 χ^2 /NDF: 426662.5/18

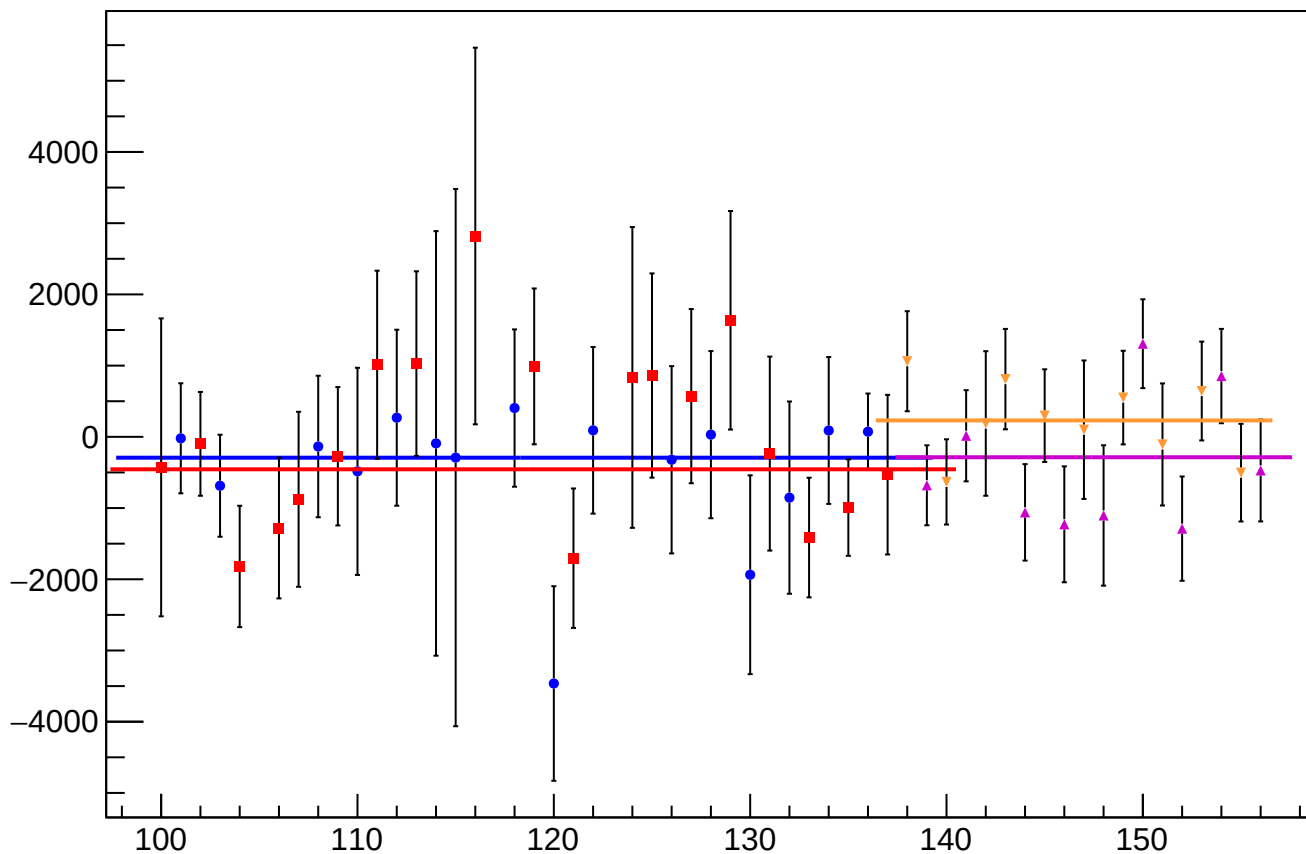
Right: 91.783 $\pm$ 0.017 χ^2 /NDF: 213046.7/34

In: 97.077 $\pm$ 0.018 χ^2 /NDF: 399835.9/24

Out: 94.851 $\pm$ 0.017 χ^2 /NDF: 359586.5/28

All: 95.927 $\pm$ 0.012 χ^2 /NDF: 767498.8/53

asym_sam_15_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -292.756 ± 259.692 $\chi^2/\text{NDF}: 8.8/15$

Left Out: 230.569 ± 228.806 $\chi^2/\text{NDF}: 6.1/9$

Right Out: -455.830 ± 248.717 $\chi^2/\text{NDF}: 16.9/18$

Left In: -286.671 ± 229.449 $\chi^2/\text{NDF}: 15.5/8$

Left: -27.325 ± 162.017 $\chi^2/\text{NDF}: 24.1/18$

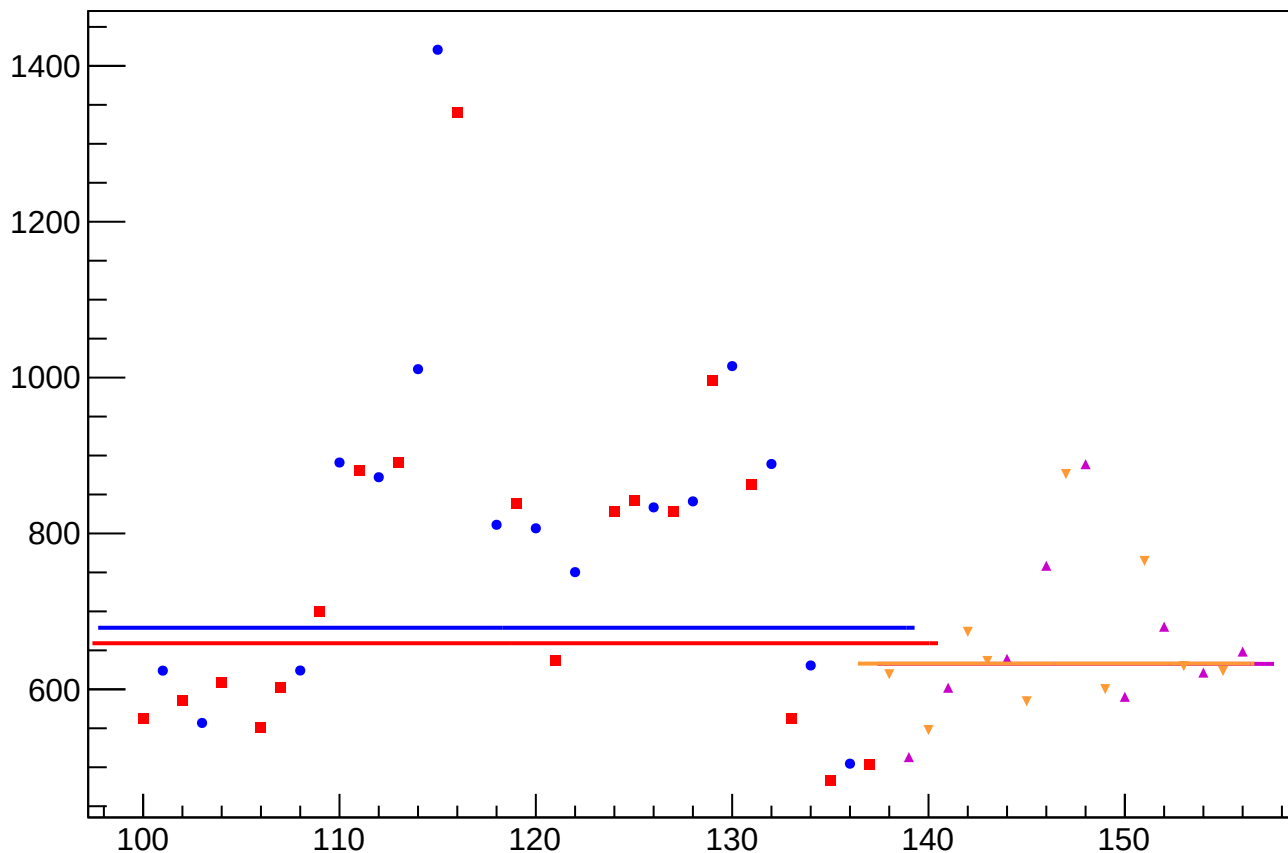
Right: -377.812 ± 179.624 $\chi^2/\text{NDF}: 25.9/34$

In: -289.339 ± 171.948 $\chi^2/\text{NDF}: 24.3/24$

Out: -84.060 ± 168.390 $\chi^2/\text{NDF}: 27.1/28$

All: -184.553 ± 120.308 $\chi^2/\text{NDF}: 52.1/53$

asym_sam_15_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 679.003 $\pm$ 0.184 χ^2 /NDF: 767983.3/15

Left Out: 633.012 $\pm$ 0.162 χ^2 /NDF: 233446.5/9

Right Out: 659.133 $\pm$ 0.176 χ^2 /NDF: 795877.7/18

Left In: 632.652 $\pm$ 0.162 χ^2 /NDF: 297810.4/8

Left: 632.832 $\pm$ 0.115 χ^2 /NDF: 531259.3/18

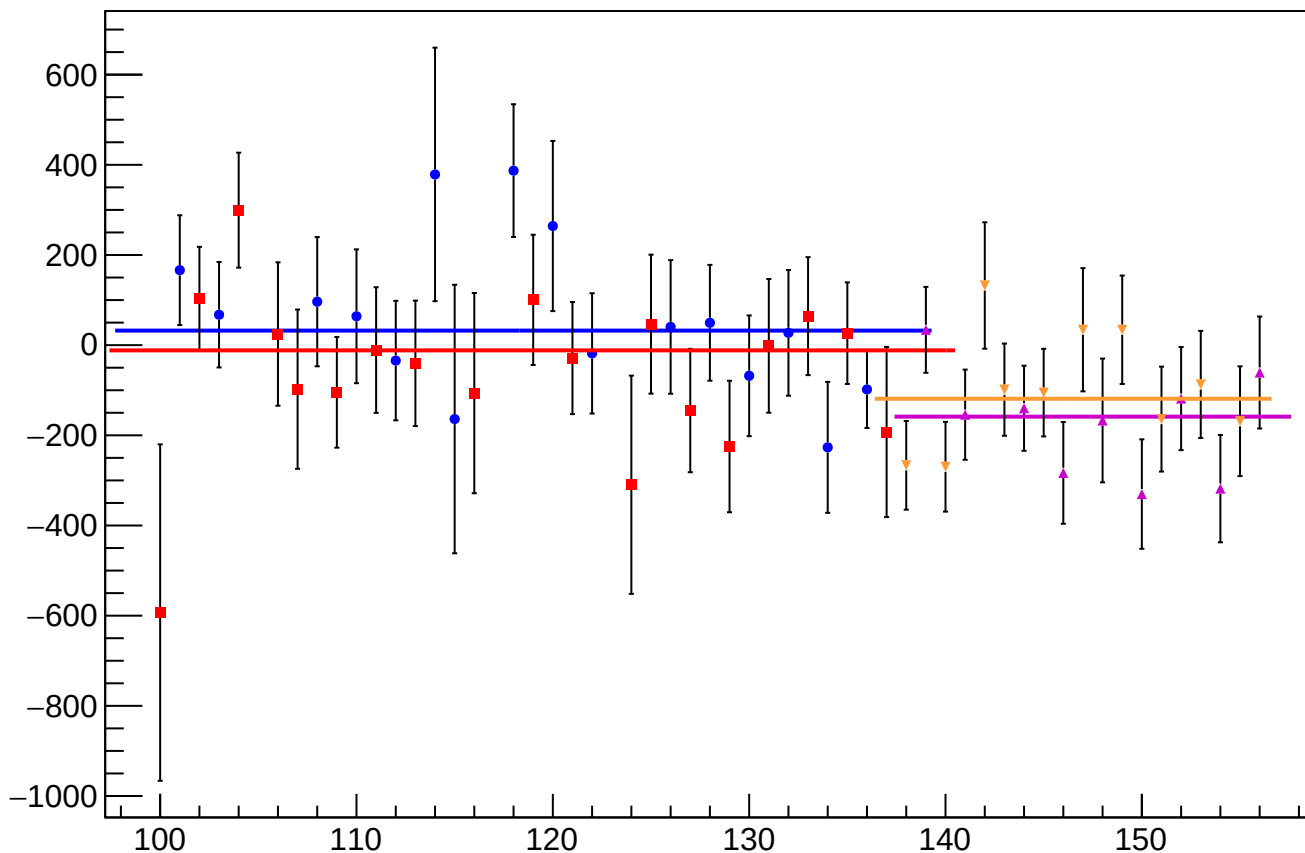
Right: 668.639 $\pm$ 0.127 χ^2 /NDF: 1569967.8/34

In: 652.972 $\pm$ 0.122 χ^2 /NDF: 1101575.2/24

Out: 644.986 $\pm$ 0.119 χ^2 /NDF: 1041272.3/28

All: 648.895 $\pm$ 0.085 χ^2 /NDF: 2145050.2/53

cor_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.312 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$

Left Out: -118.863 ± 35.540 $\chi^2/\text{NDF}: 11.1/9$

Right Out: -11.576 ± 33.548 $\chi^2/\text{NDF}: 17.2/18$

Left In: -158.567 ± 36.909 $\chi^2/\text{NDF}: 9.9/8$

Left: -137.965 ± 25.601 $\chi^2/\text{NDF}: 21.6/18$

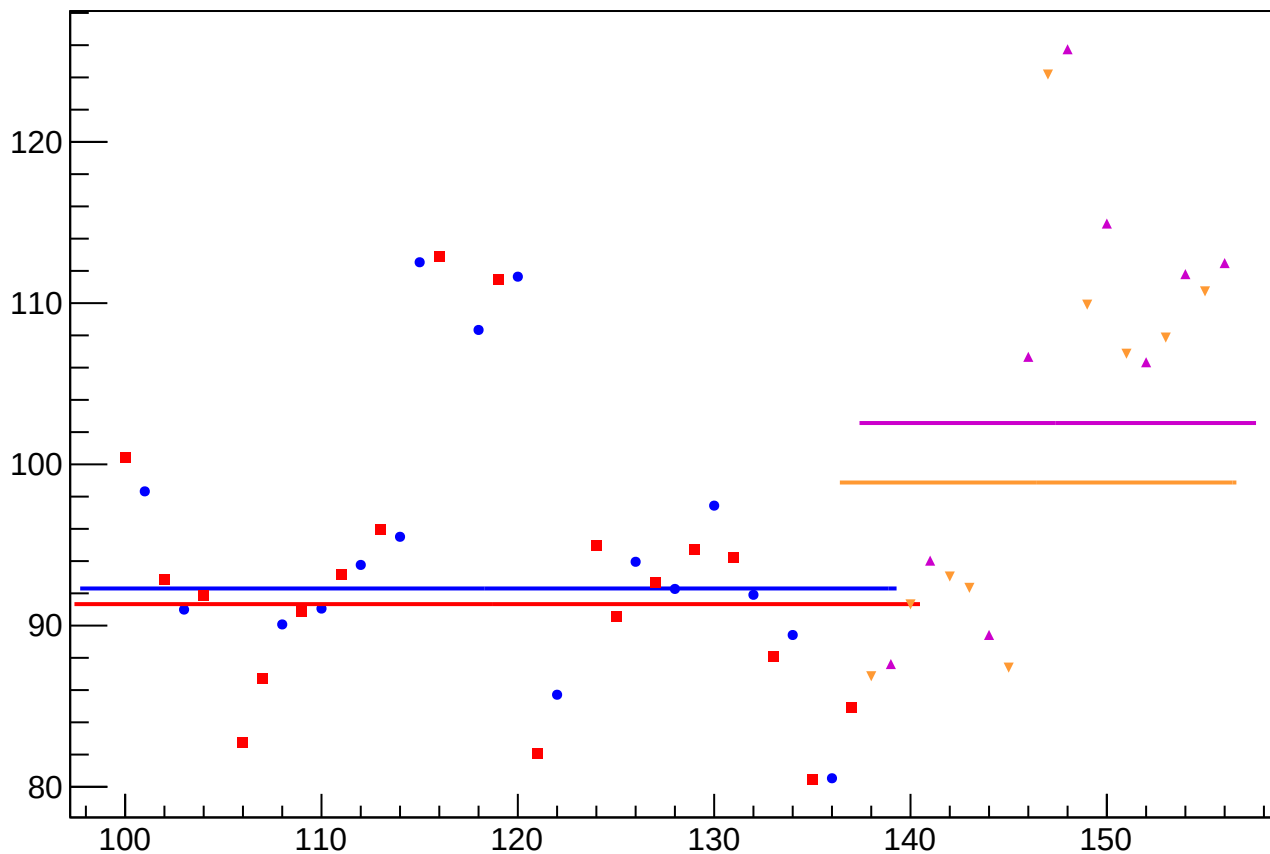
Right: 9.800 ± 24.028 $\chi^2/\text{NDF}: 35.3/34$

In: -56.498 ± 25.176 $\chi^2/\text{NDF}: 41.5/24$

Out: -62.129 ± 24.396 $\chi^2/\text{NDF}: 33.1/28$

All: -59.402 ± 17.520 $\chi^2/\text{NDF}: 74.6/53$

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: 98.875 $\pm$ 0.025 χ^2 /NDF: 206192.5/9

Right Out: 91.332 $\pm$ 0.024 χ^2 /NDF: 104918.3/18

Left In: 102.564 $\pm$ 0.026 χ^2 /NDF: 210101.1/8

Left: 100.650 $\pm$ 0.018 χ^2 /NDF: 426662.6/18

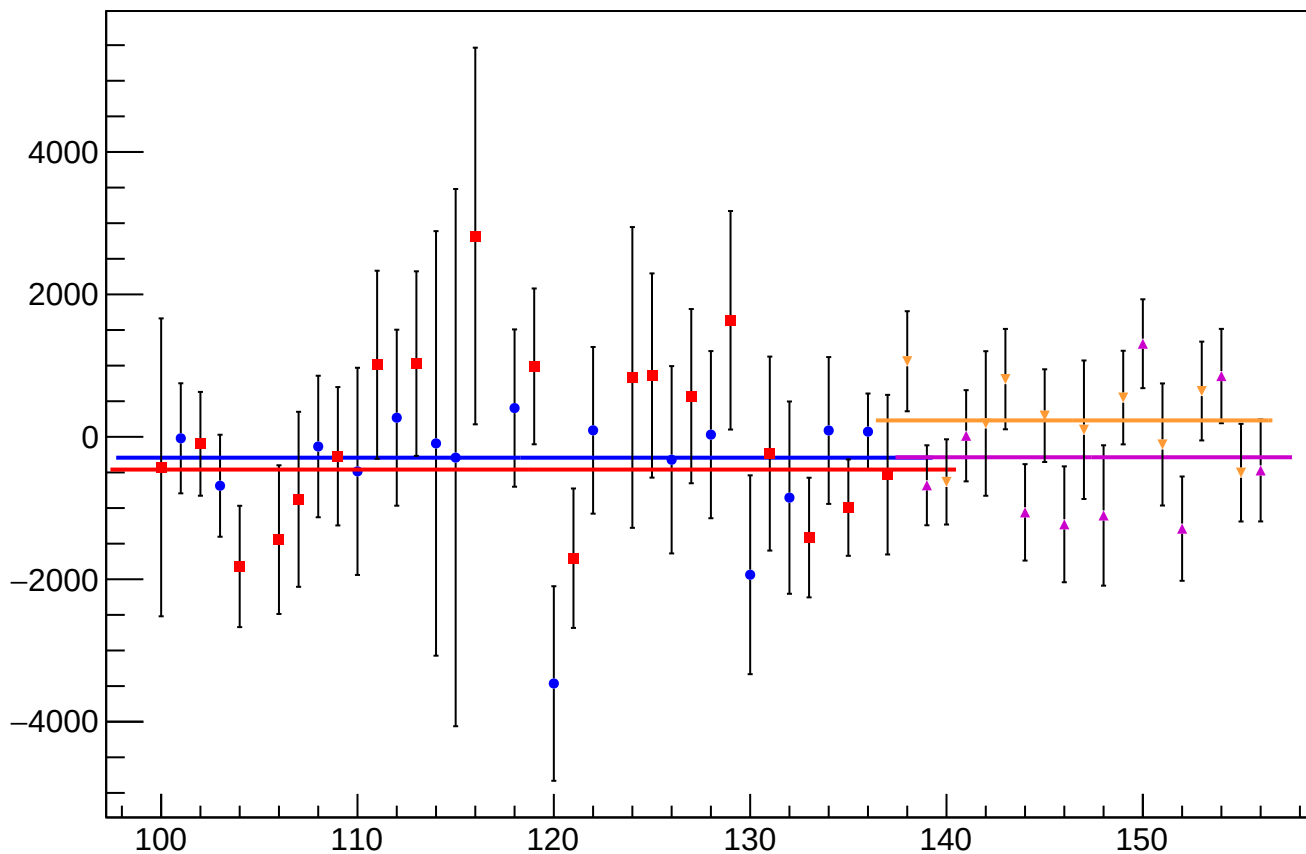
Right: 91.805 $\pm$ 0.017 χ^2 /NDF: 212799.4/34

In: 97.077 $\pm$ 0.018 χ^2 /NDF: 399835.9/24

Out: 94.886 $\pm$ 0.017 χ^2 /NDF: 358748.7/28

All: 95.947 $\pm$ 0.012 χ^2 /NDF: 766395.1/53

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: 230.566+/-228.806 χ^2/NDF : 6.1/9

Right Out: -459.595+/-249.543 χ^2/NDF : 17.1/18

Left In: -286.668+/-229.449 χ^2/NDF : 15.5/8

Left: -27.325+/-162.017 χ^2/NDF : 24.1/18

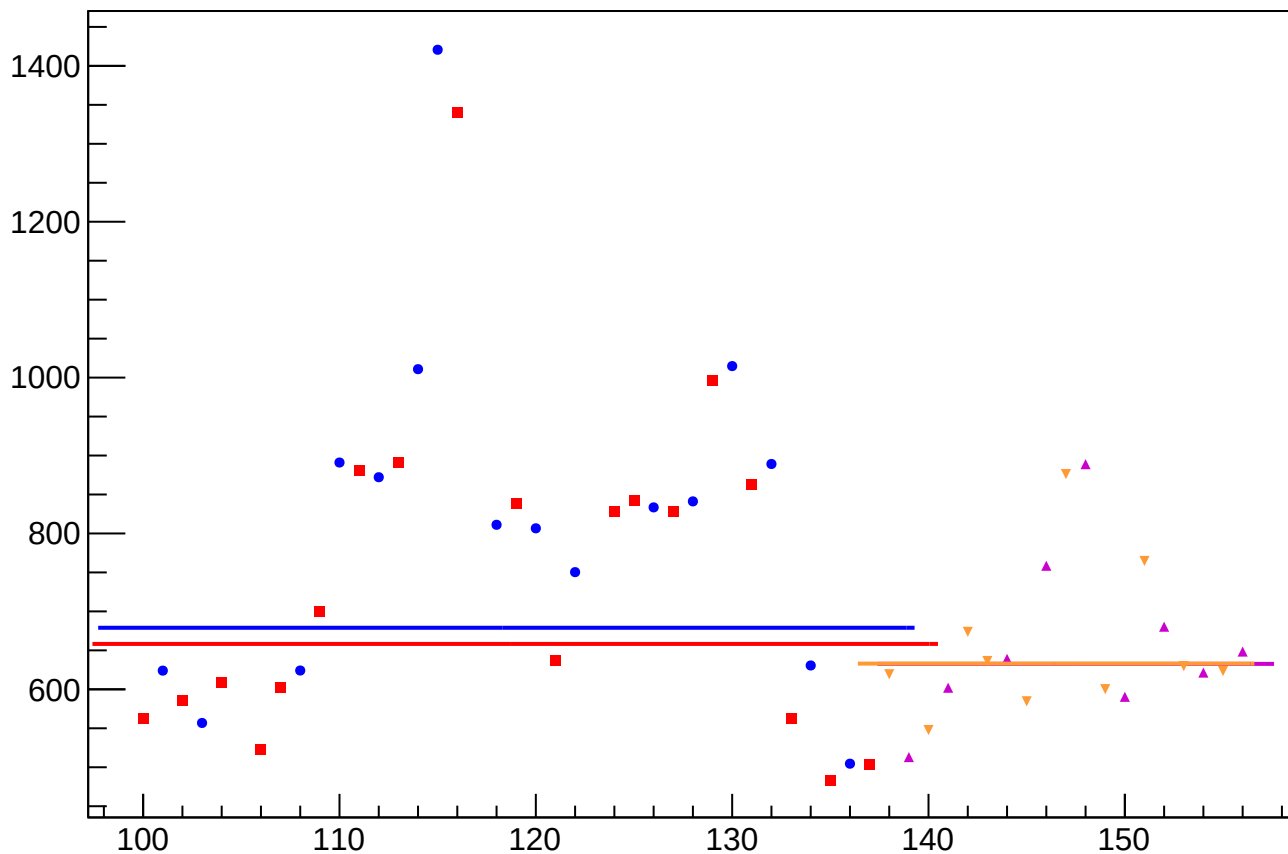
Right: -379.498+/-179.935 χ^2/NDF : 26.1/34

In: -289.336+/-171.948 χ^2/NDF : 24.3/24

Out: -84.651+/-168.646 χ^2/NDF : 27.3/28

All: -185.009+/-120.401 χ^2/NDF : 52.3/53

asym_sam_15_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 679.003 $\pm$ 0.184 χ^2 /NDF: 767985.6/15

Left Out: 633.012 $\pm$ 0.162 χ^2 /NDF: 233446.7/9

Right Out: 658.262 $\pm$ 0.176 χ^2 /NDF: 805898.2/18

Left In: 632.652 $\pm$ 0.162 χ^2 /NDF: 297810.0/8

Left: 632.833 $\pm$ 0.115 χ^2 /NDF: 531259.2/18

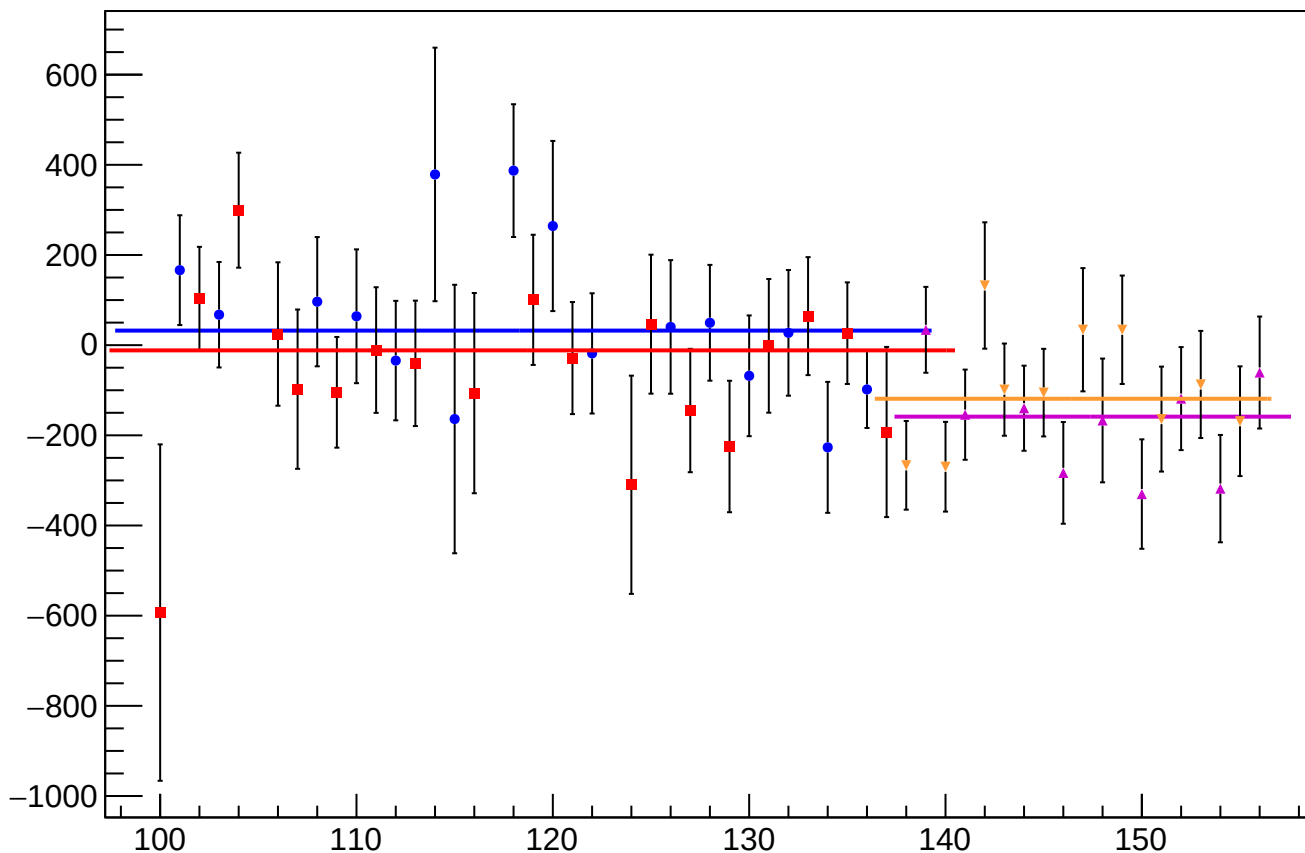
Right: 668.219 $\pm$ 0.127 χ^2 /NDF: 1580516.6/34

In: 652.972 $\pm$ 0.122 χ^2 /NDF: 1101576.2/24

Out: 644.545 $\pm$ 0.119 χ^2 /NDF: 1050468.8/28

All: 648.677 $\pm$ 0.085 χ^2 /NDF: 2154493.8/53

eigen_cor_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.312 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$

Left Out: -118.863 ± 35.540 $\chi^2/\text{NDF}: 11.1/9$

Right Out: -11.576 ± 33.548 $\chi^2/\text{NDF}: 17.2/18$

Left In: -158.567 ± 36.909 $\chi^2/\text{NDF}: 9.9/8$

Left: -137.965 ± 25.601 $\chi^2/\text{NDF}: 21.6/18$

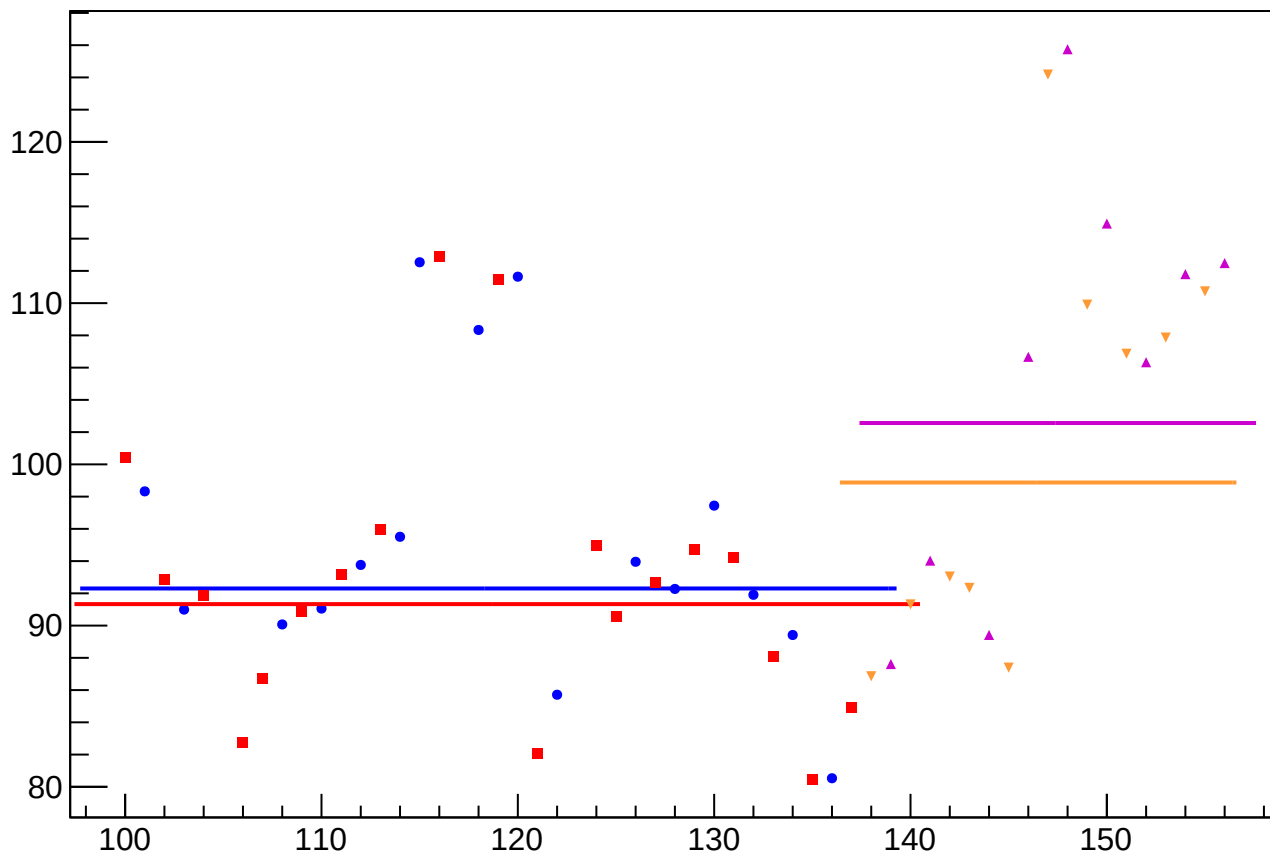
Right: 9.800 ± 24.028 $\chi^2/\text{NDF}: 35.3/34$

In: -56.498 ± 25.176 $\chi^2/\text{NDF}: 41.5/24$

Out: -62.129 ± 24.396 $\chi^2/\text{NDF}: 33.1/28$

All: -59.402 ± 17.520 $\chi^2/\text{NDF}: 74.6/53$

eigen_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: 98.875 $\pm$ 0.025 χ^2 /NDF: 206192.5/9

Right Out: 91.332 $\pm$ 0.024 χ^2 /NDF: 104918.3/18

Left In: 102.564 $\pm$ 0.026 χ^2 /NDF: 210101.1/8

Left: 100.650 $\pm$ 0.018 χ^2 /NDF: 426662.6/18

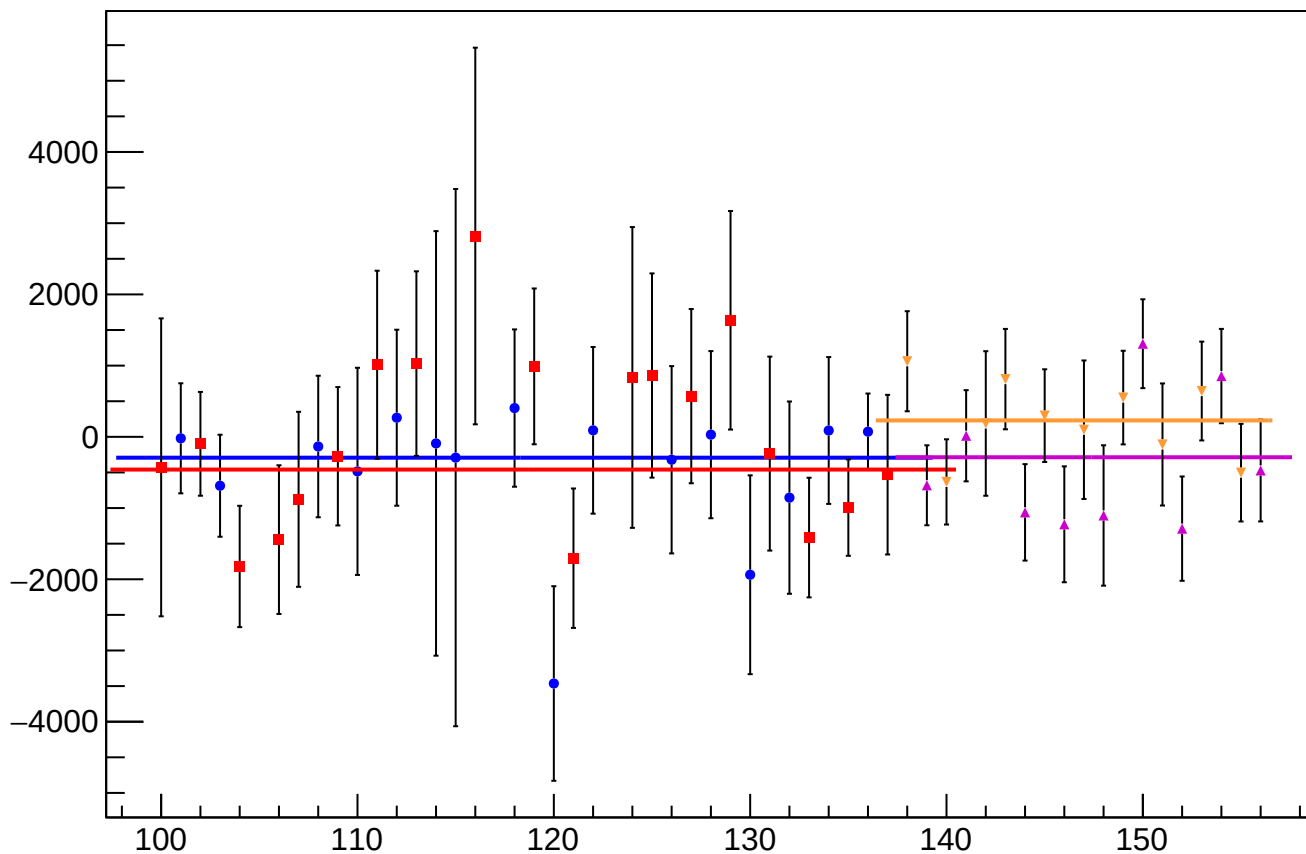
Right: 91.805 $\pm$ 0.017 χ^2 /NDF: 212799.4/34

In: 97.077 $\pm$ 0.018 χ^2 /NDF: 399835.9/24

Out: 94.886 $\pm$ 0.017 χ^2 /NDF: 358748.7/28

All: 95.947 $\pm$ 0.012 χ^2 /NDF: 766395.1/53

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: 230.566+/-228.806 χ^2/NDF :6.1/9

Right Out: -459.595+/-249.543 χ^2/NDF : 17.1/18

Left In: -286.668+/-229.449 χ^2/NDF :15.5/8

Left: -27.325+/-162.017 χ^2/NDF : 24.1/18

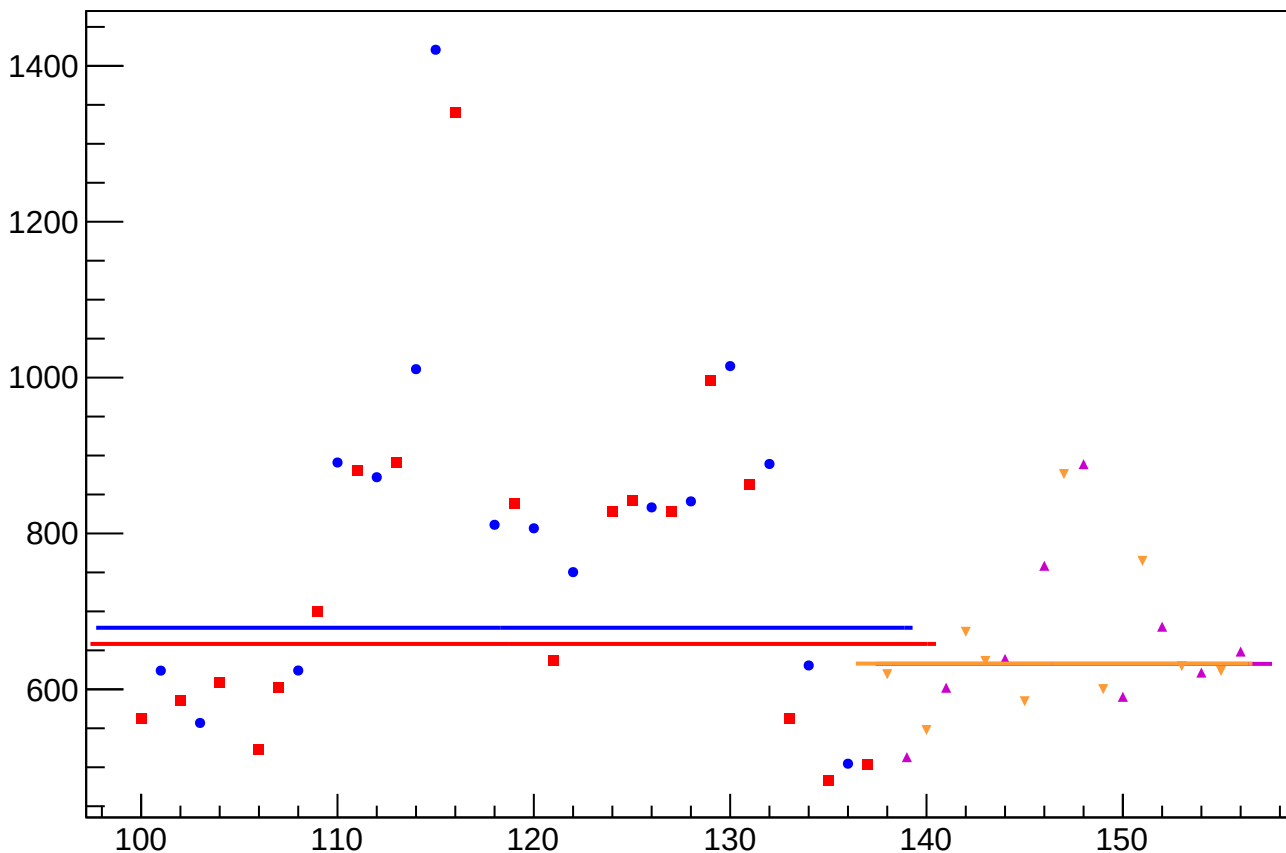
Right: -379.498+/-179.935 χ^2/NDF : 26.1/34

In: -289.336+/-171.948 χ^2/NDF :24.3/24

Out: -84.651+/-168.646 χ^2/NDF :27.3/28

All: -185.009+/-120.401 χ^2/NDF : 52.3/53

asym_sam_15_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 679.003 $\pm$ 0.184 χ^2 /NDF: 767985.6/15

Left Out: 633.012 $\pm$ 0.162 χ^2 /NDF:233446.7/9

Right Out: 658.262 $\pm$ 0.176 χ^2 /NDF: 805898.2/18

Left In: 632.652 $\pm$ 0.162 χ^2 /NDF:297810.0/8

Left: 632.833 $\pm$ 0.115 χ^2 /NDF: 531259.2/18

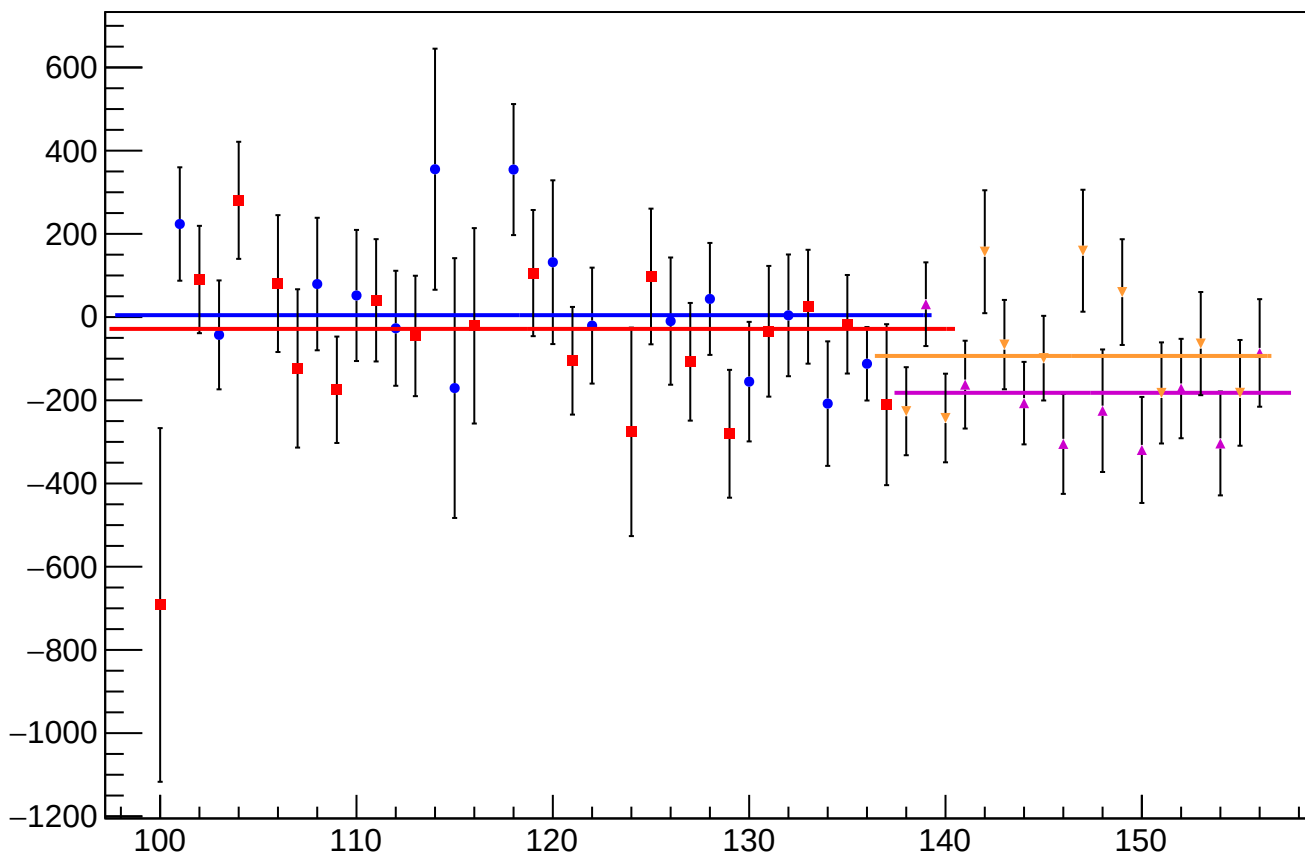
Right: 668.219 $\pm$ 0.127 χ^2 /NDF: 1580516.6/34

In: 652.972 $\pm$ 0.122 χ^2 /NDF:1101576.2/24

Out: 644.545 $\pm$ 0.119 χ^2 /NDF:1050468.8/28

All: 648.677 $\pm$ 0.085 χ^2 /NDF: 2154493.8/53

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: -93.397 ± 37.533 $\chi^2/\text{NDF}: 12.0/9$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -182.038 ± 38.886 $\chi^2/\text{NDF}: 8.4/8$

Left: -136.149 ± 27.005 $\chi^2/\text{NDF}: 23.1/18$

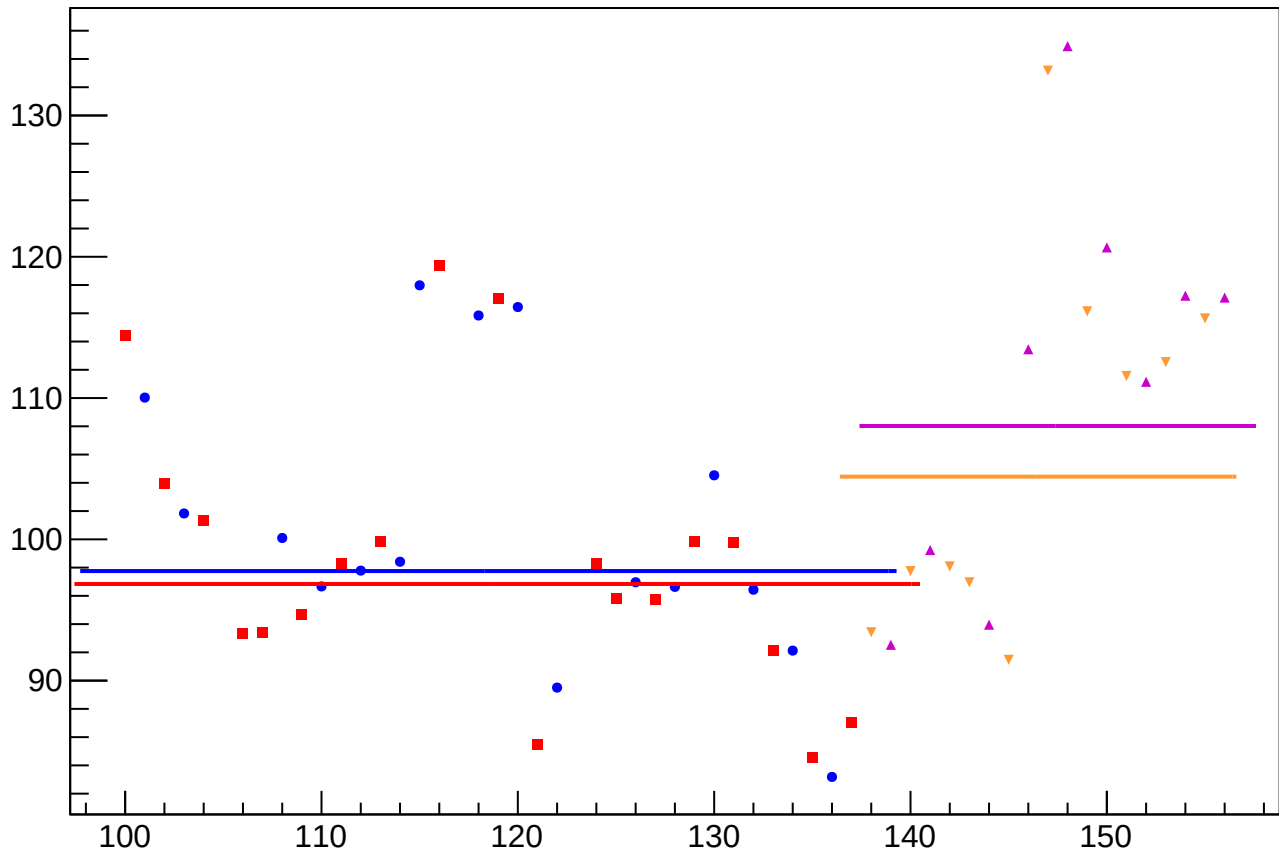
Right: -12.373 ± 25.439 $\chi^2/\text{NDF}: 32.9/34$

In: -82.831 ± 26.616 $\chi^2/\text{NDF}: 36.0/24$

Out: -59.062 ± 25.778 $\chi^2/\text{NDF}: 30.7/28$

All: -70.566 ± 18.517 $\chi^2/\text{NDF}: 67.1/53$

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: 104.437 $\pm$ 0.027 χ^2/NDF : 200233.1/9

Right Out: 96.840 $\pm$ 0.025 χ^2/NDF : 115170.9/18

Left In: 108.022 $\pm$ 0.027 χ^2/NDF : 214069.7/8

Left: 106.166 $\pm$ 0.019 χ^2/NDF : 423103.6/18

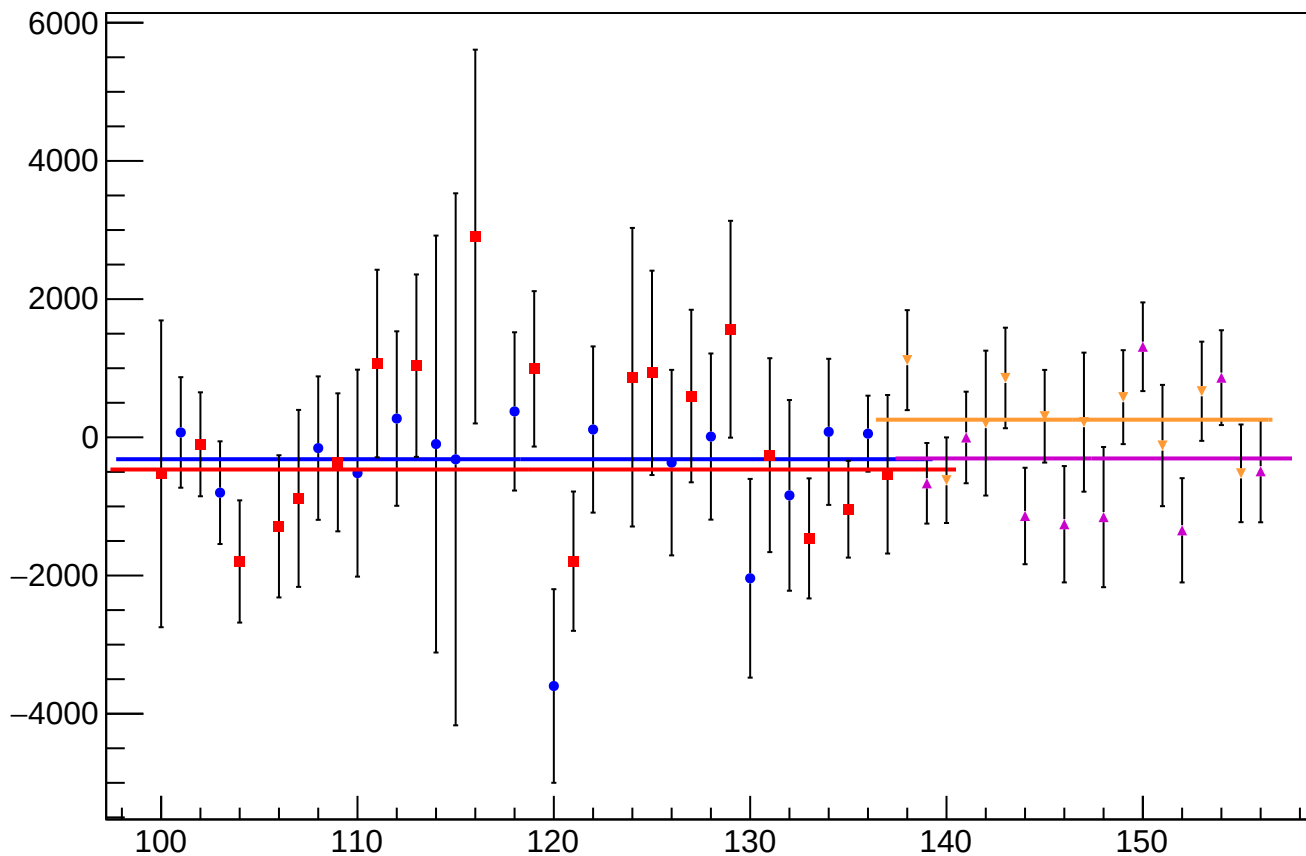
Right: 97.285 $\pm$ 0.018 χ^2/NDF : 256473.4/34

In: 102.566 $\pm$ 0.019 χ^2/NDF : 428808.0/24

Out: 100.423 $\pm$ 0.018 χ^2/NDF : 358691.4/28

All: 101.460 $\pm$ 0.013 χ^2/NDF : 794185.9/53

asym_sam_15_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -316.572+/-267.515 χ^2/NDF : 9.2/15

Left Out: 255.249+/-236.136 χ^2/NDF :6.1/9

Right Out: -465.576+/-256.646 χ^2/NDF : 16.5/18

Left In: -305.750+/-237.050 χ^2/NDF :15.2/8

Left: -24.167+/-167.295 χ^2/NDF : 24.1/18

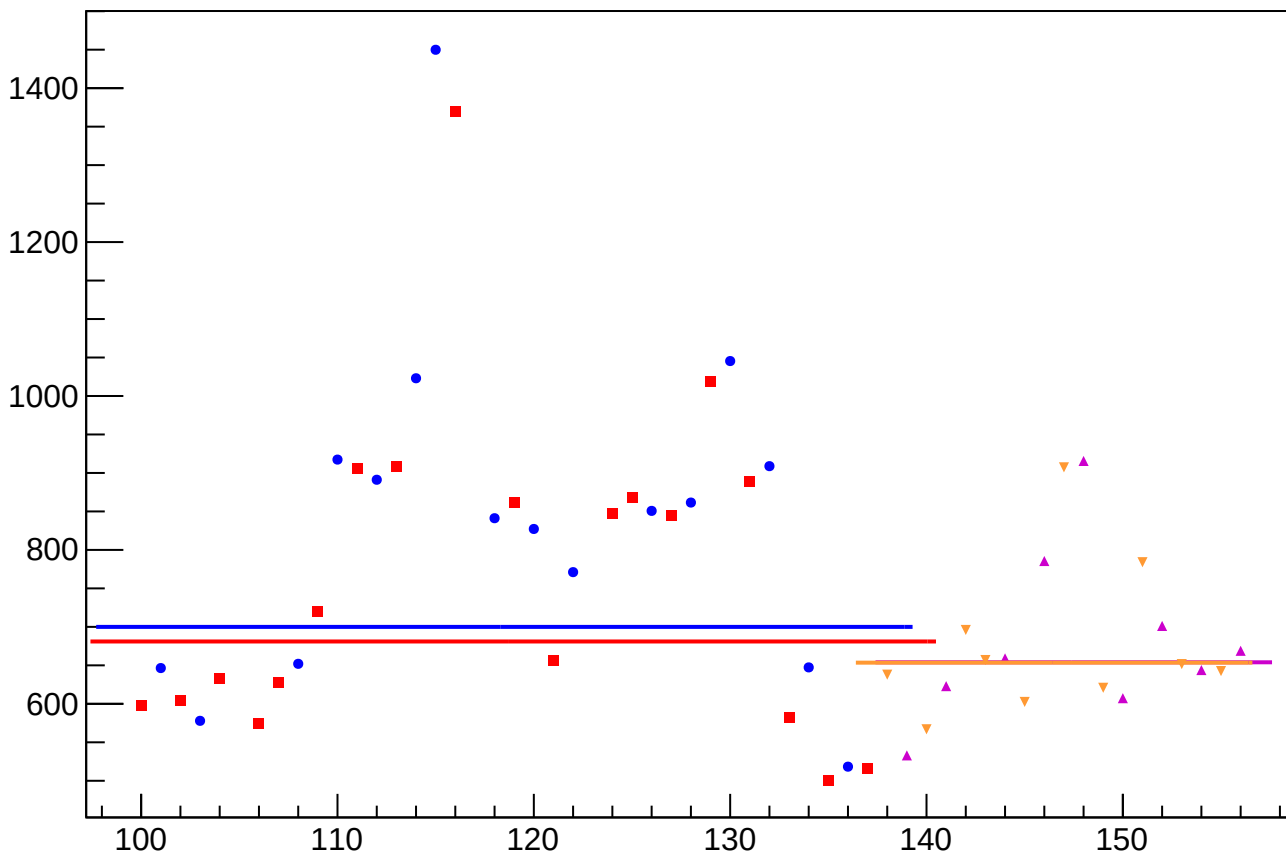
Right: -394.162+/-185.199 χ^2/NDF : 25.8/34

In: -310.510+/-177.417 χ^2/NDF :24.4/24

Out: -75.214+/-173.772 χ^2/NDF :26.8/28

All: -190.420+/-124.144 χ^2/NDF : 52.1/53

asym_sam_15_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 699.973 $\pm$ 0.189 χ^2 /NDF: 753665.4/15

Left Out: 653.504 $\pm$ 0.167 χ^2 /NDF: 231508.0/9

Right Out: 681.016 $\pm$ 0.181 χ^2 /NDF: 769397.2/18

Left In: 653.969 $\pm$ 0.168 χ^2 /NDF: 292055.5/8

Left: 653.736 $\pm$ 0.118 χ^2 /NDF: 523567.4/18

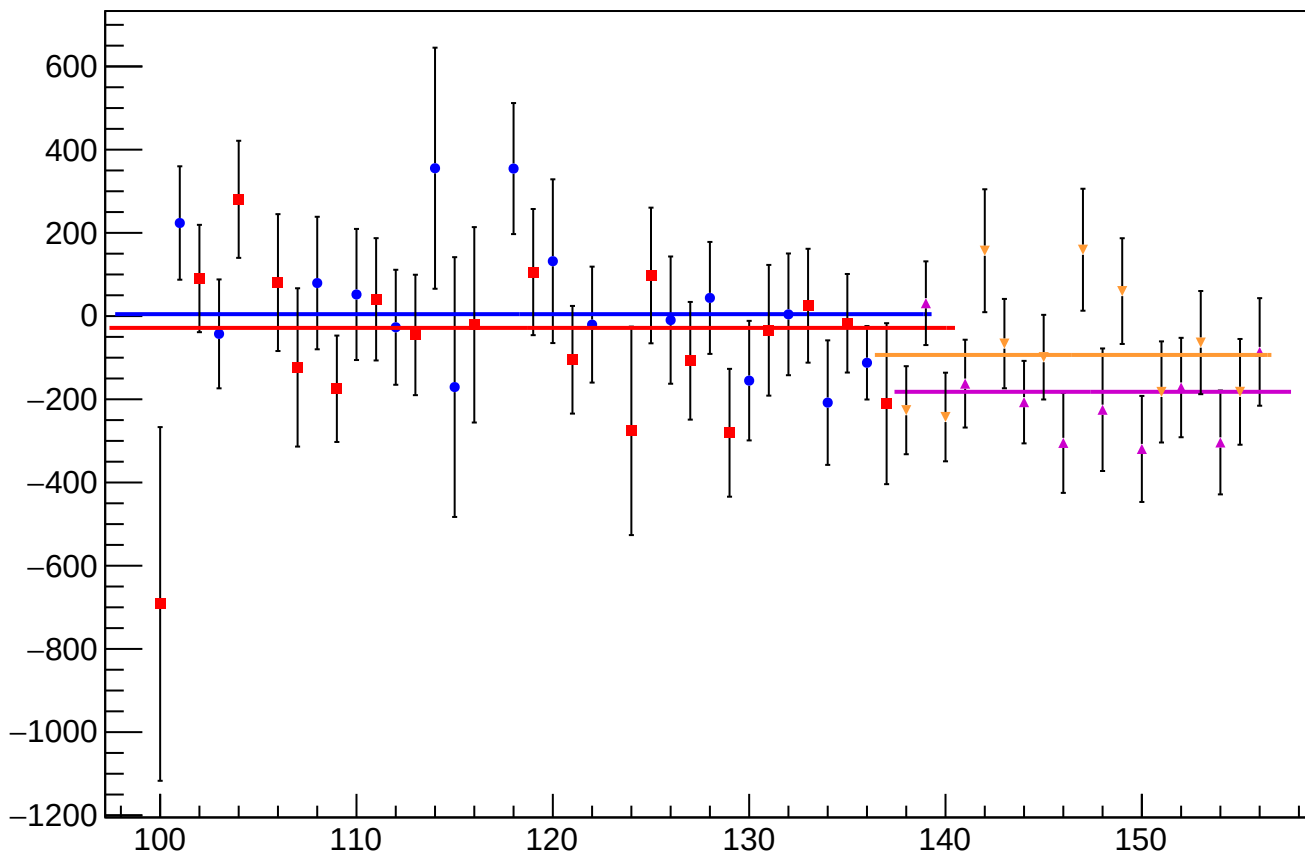
Right: 690.102 $\pm$ 0.131 χ^2 /NDF: 1528292.0/34

In: 674.204 $\pm$ 0.125 χ^2 /NDF: 1078851.2/24

Out: 666.117 $\pm$ 0.123 χ^2 /NDF: 1013352.3/28

All: 670.076 $\pm$ 0.088 χ^2 /NDF: 2094324.0/53

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: -93.397 ± 37.533 $\chi^2/\text{NDF}: 12.0/9$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -182.038 ± 38.886 $\chi^2/\text{NDF}: 8.4/8$

Left: -136.149 ± 27.005 $\chi^2/\text{NDF}: 23.1/18$

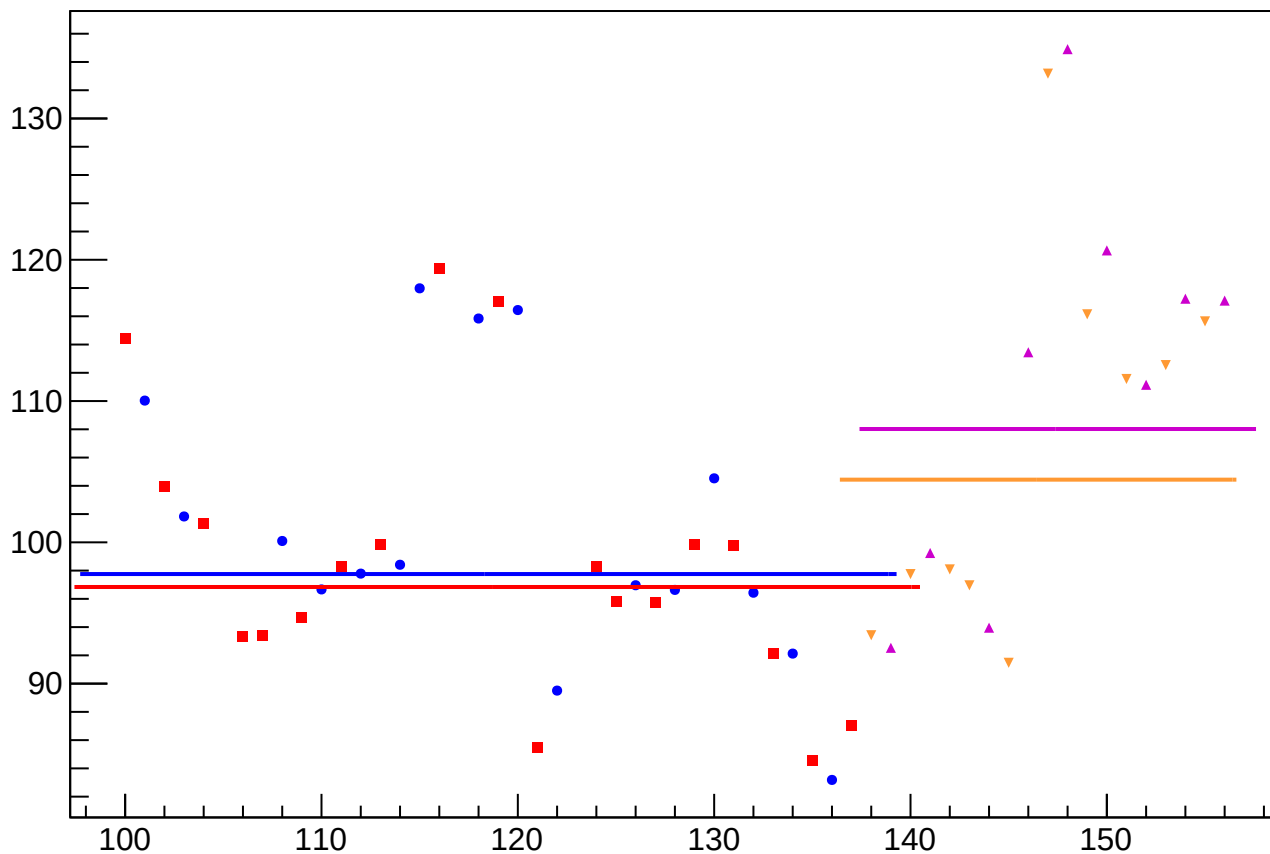
Right: -12.373 ± 25.438 $\chi^2/\text{NDF}: 32.9/34$

In: -82.830 ± 26.616 $\chi^2/\text{NDF}: 36.0/24$

Out: -59.062 ± 25.778 $\chi^2/\text{NDF}: 30.7/28$

All: -70.566 ± 18.517 $\chi^2/\text{NDF}: 67.1/53$

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: 104.437 $\pm$ 0.027 χ^2 /NDF: 200234.0/9

Right Out: 96.839 $\pm$ 0.025 χ^2 /NDF: 115173.1/18

Left In: 108.022 $\pm$ 0.027 χ^2 /NDF: 214069.5/8

Left: 106.166 $\pm$ 0.019 χ^2 /NDF: 423104.6/18

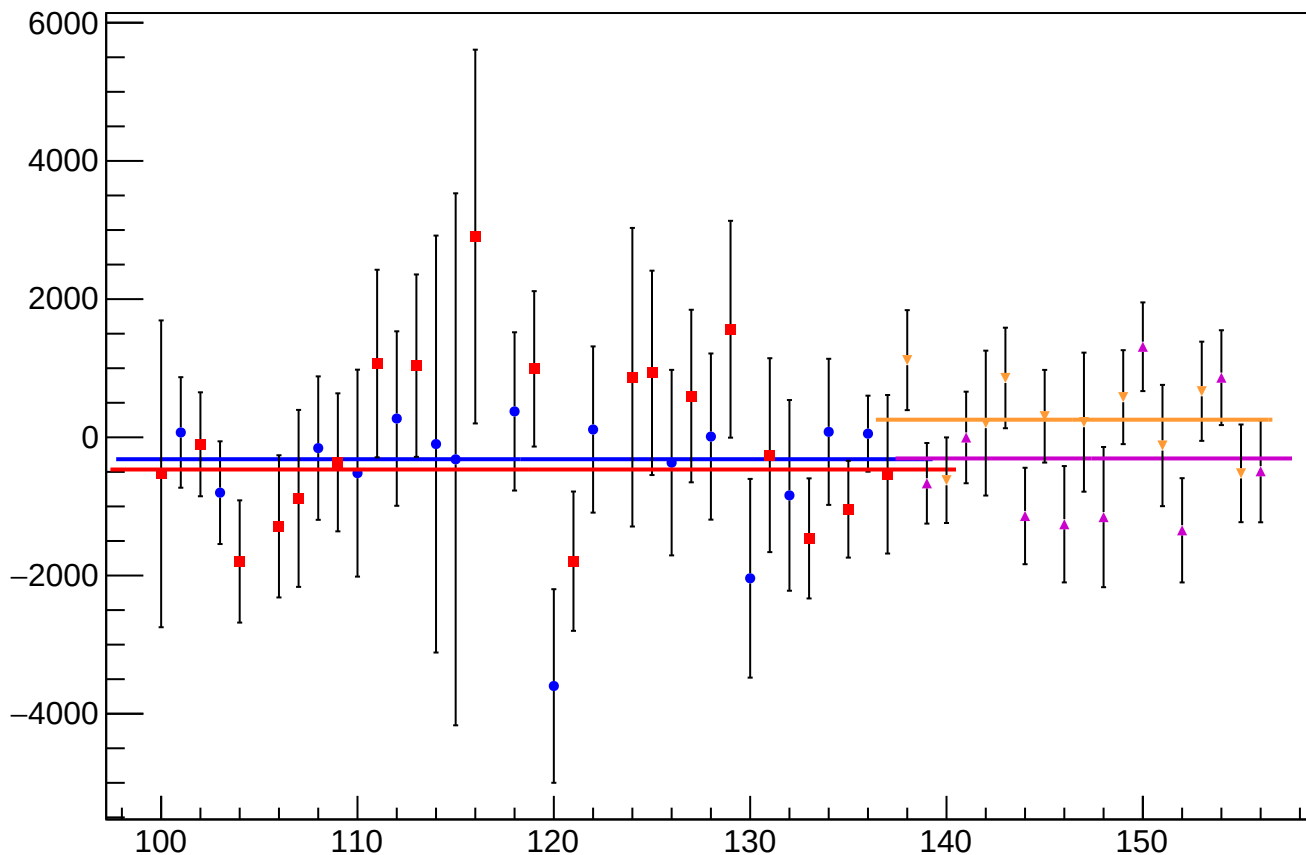
Right: 97.284 $\pm$ 0.018 χ^2 /NDF: 256476.1/34

In: 102.565 $\pm$ 0.019 χ^2 /NDF: 428815.1/24

Out: 100.423 $\pm$ 0.018 χ^2 /NDF: 358699.7/28

All: 101.460 $\pm$ 0.013 χ^2 /NDF: 794201.6/53

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: 255.249+/-236.136 χ^2/NDF :6.1/9

Right Out: -465.576+/-256.645 χ^2/NDF : 16.5/18

Left In: -305.752+/-237.050 χ^2/NDF :15.2/8

Left: -24.168+/-167.296 χ^2/NDF : 24.1/18

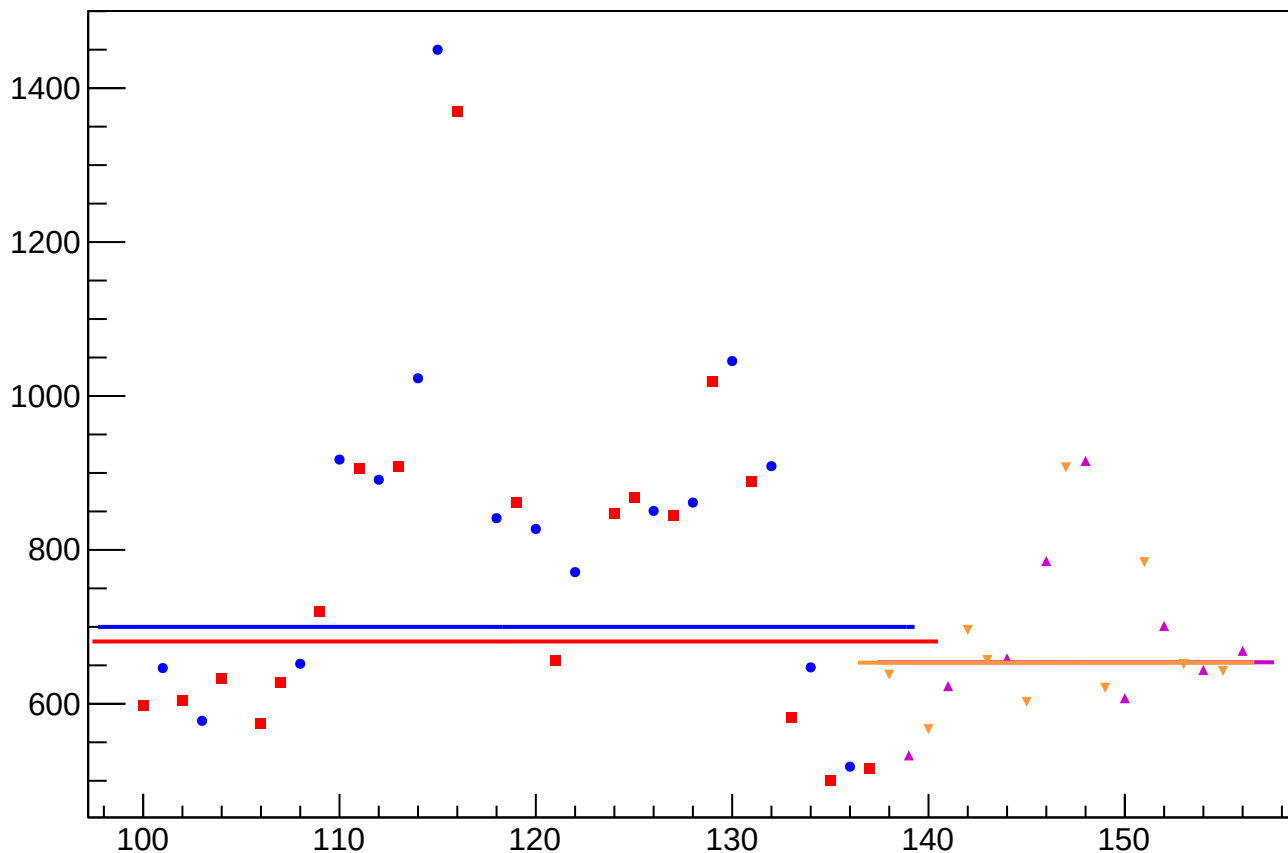
Right: -394.162+/-185.199 χ^2/NDF : 25.8/34

In: -310.510+/-177.417 χ^2/NDF :24.4/24

Out: -75.215+/-173.772 χ^2/NDF :26.8/28

All: -190.421+/-124.144 χ^2/NDF : 52.1/53

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: 653.505+/-0.167 χ^2/NDF : 231507.1/9

Right Out: 681.015+/-0.181 χ^2/NDF : 769400.5/18

Left In: 653.971+/-0.168 χ^2/NDF : 292055.2/8

Left: 653.737+/-0.118 χ^2/NDF : 523566.2/18

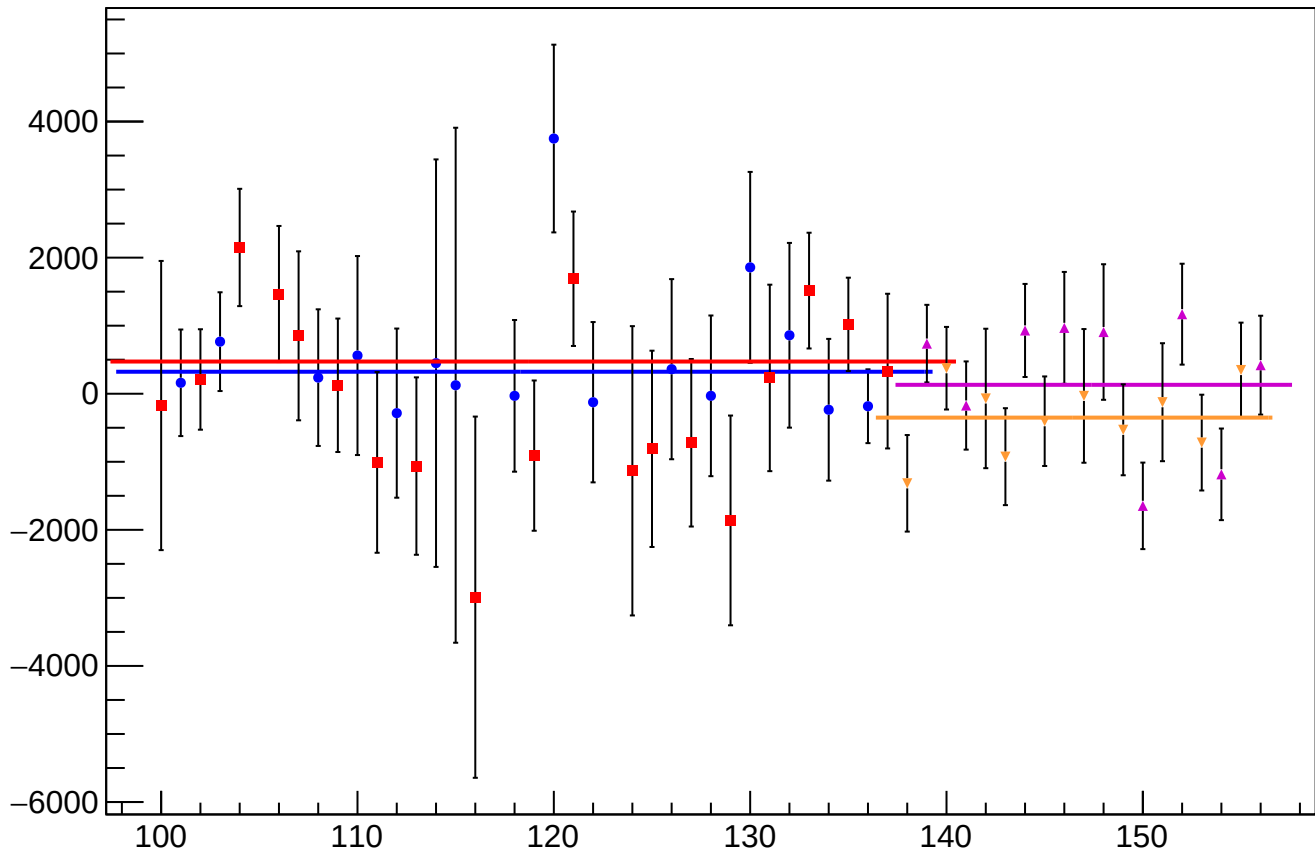
Right: 690.100+/-0.131 χ^2/NDF : 1528298.1/34

In: 674.204+/-0.125 χ^2/NDF : 1078849.8/24

Out: 666.117+/-0.123 χ^2/NDF : 1013352.2/28

All: 670.076+/-0.088 χ^2/NDF : 2094322.7/53

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 323.198+/-262.332 χ^2/NDF : 9.7/15

Left Out: -350.912+/-231.743 χ^2/NDF : 5.5/9

Right Out: 473.233+/-251.330 χ^2/NDF : 19.4/18

Left In: 130.942+/-232.625 χ^2/NDF : 18.1/8

Left: -110.900+/-164.178 χ^2/NDF : 25.8/18

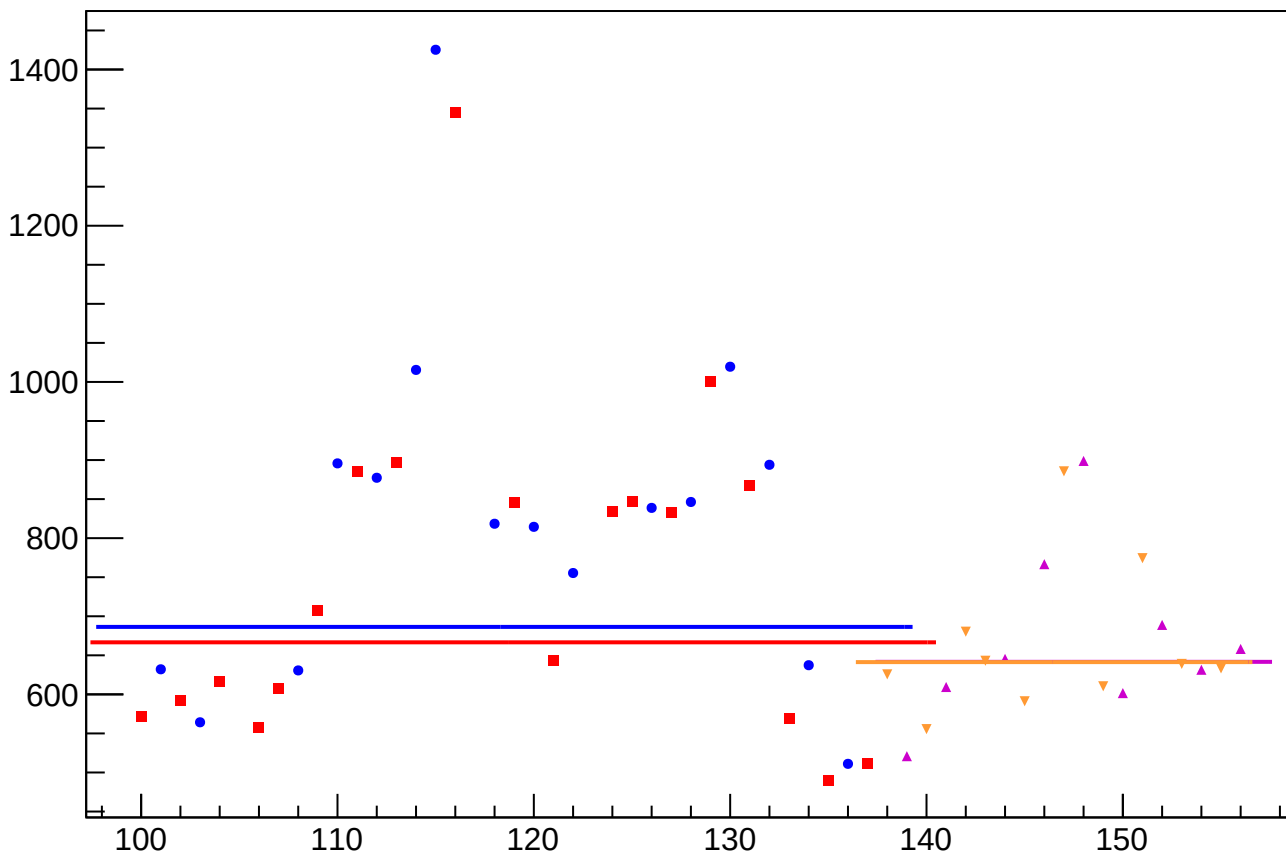
Right: 401.428+/-181.482 χ^2/NDF : 29.3/34

In: 215.572+/-174.050 χ^2/NDF : 28.1/24

Out: 27.799+/-170.371 χ^2/NDF : 30.8/28

All: 119.680+/-121.751 χ^2/NDF : 59.5/53

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 686.394+/-0.185 χ^2/NDF : 749454.8/15

Left Out: 641.322+/-0.164 χ^2/NDF : 230772.4/9

Right Out: 666.634+/-0.178 χ^2/NDF : 777033.6/18

Left In: 641.653+/-0.164 χ^2/NDF : 292037.5/8

Left: 641.487+/-0.116 χ^2/NDF : 522811.9/18

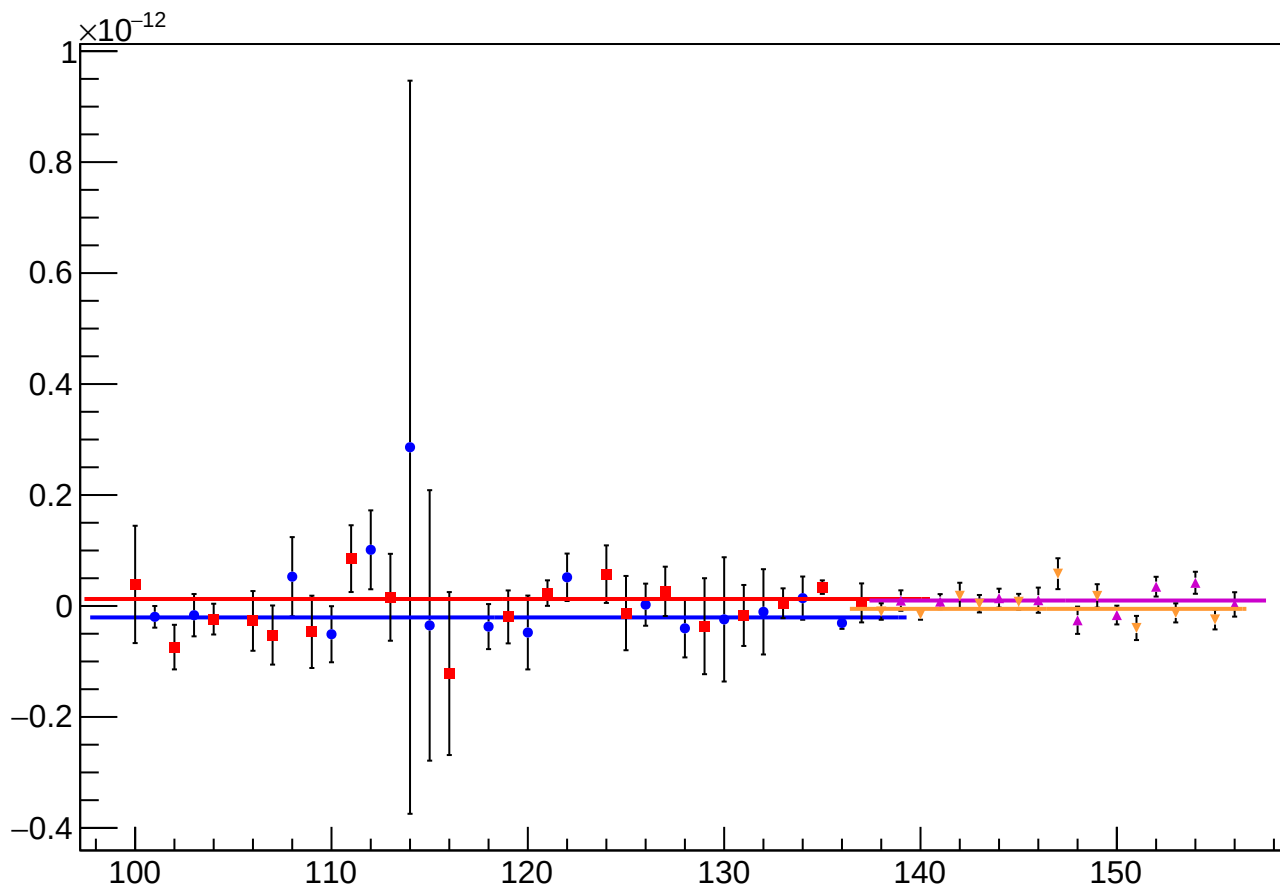
Right: 676.091+/-0.128 χ^2/NDF : 1532404.9/34

In: 661.348+/-0.123 χ^2/NDF : 1074059.9/24

Out: 652.954+/-0.120 χ^2/NDF : 1018770.4/28

All: 657.061+/-0.086 χ^2/NDF : 2095205.7/53

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 : 13.4/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 17.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 9.2/8

Left: 0.000 ± 0.000 χ^2/NDF : 26.2/18

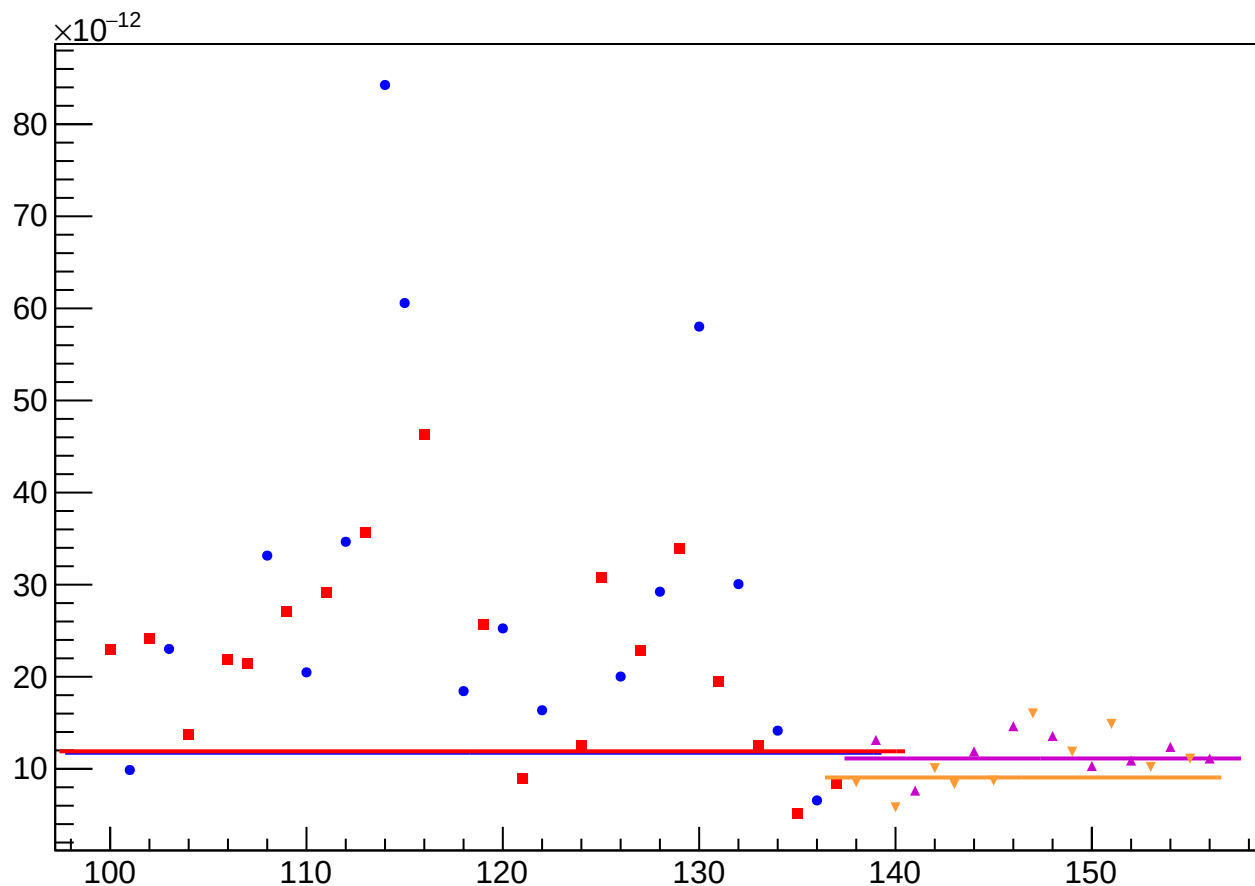
Right: -0.000 ± 0.000 χ^2/NDF : 36.0/34

In: -0.000 ± 0.000 χ^2/NDF : 28.7/24

Out: 0.000 ± 0.000 χ^2/NDF : 34.0/28

All: -0.000 ± 0.000 χ^2/NDF : 62.8/53

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 : 560291.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2202451.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 241027.5/8

Left: 0.000+/-0.000 χ^2/NDF : 934335.2/18

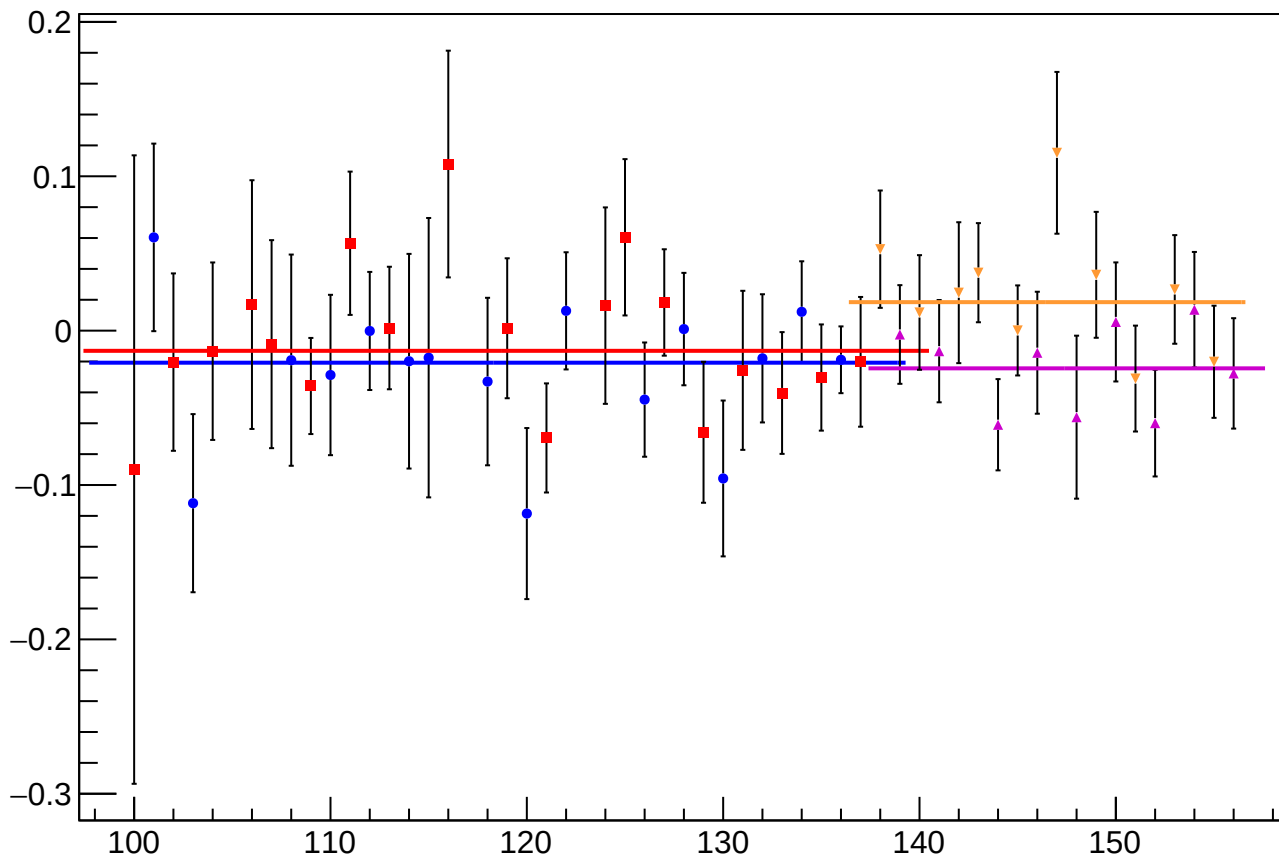
Right: 0.000+/-0.000 χ^2/NDF : 4364012.6/34

In: 0.000+/-0.000 χ^2/NDF : 2410031.7/24

Out: 0.000+/-0.000 χ^2/NDF : 2945500.3/28

All: 0.000+/-0.000 χ^2/NDF : 5455059.1/53

asym_sam_15_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.018 ± 0.012 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.024 ± 0.012 $\chi^2/\text{NDF}: 5.2/8$

Left: -0.002 ± 0.008 $\chi^2/\text{NDF}: 20.4/18$

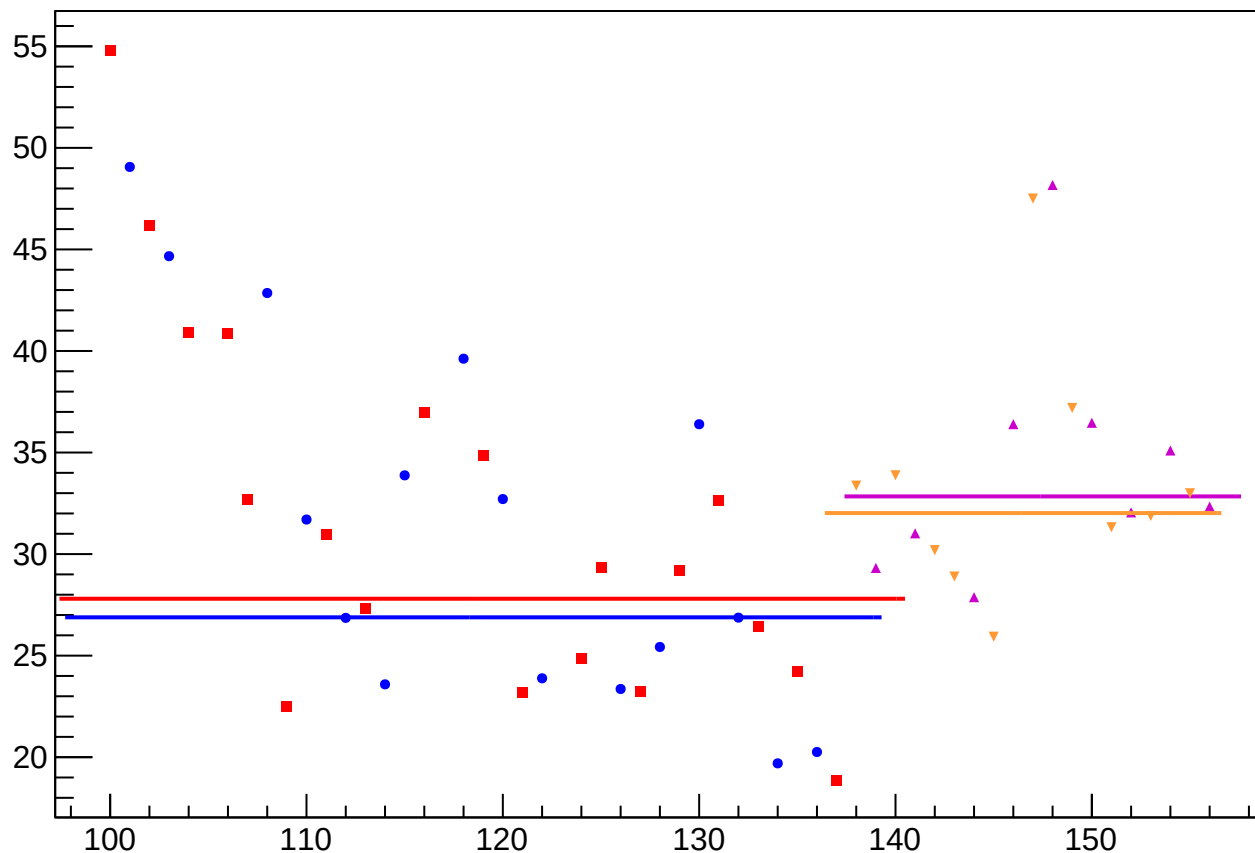
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.022 ± 0.008 $\chi^2/\text{NDF}: 17.8/24$

Out: 0.001 ± 0.008 $\chi^2/\text{NDF}: 26.4/28$

All: -0.010 ± 0.006 $\chi^2/\text{NDF}: 48.8/53$

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: 32.020 $\pm$ 0.008 χ^2 /NDF:325872.6/9

Right Out: 27.802 $\pm$ 0.007 χ^2 /NDF: 763106.1/18

Left In: 32.840 $\pm$ 0.008 χ^2 /NDF:297985.6/8

Left: 32.419 $\pm$ 0.006 χ^2 /NDF: 628719.7/18

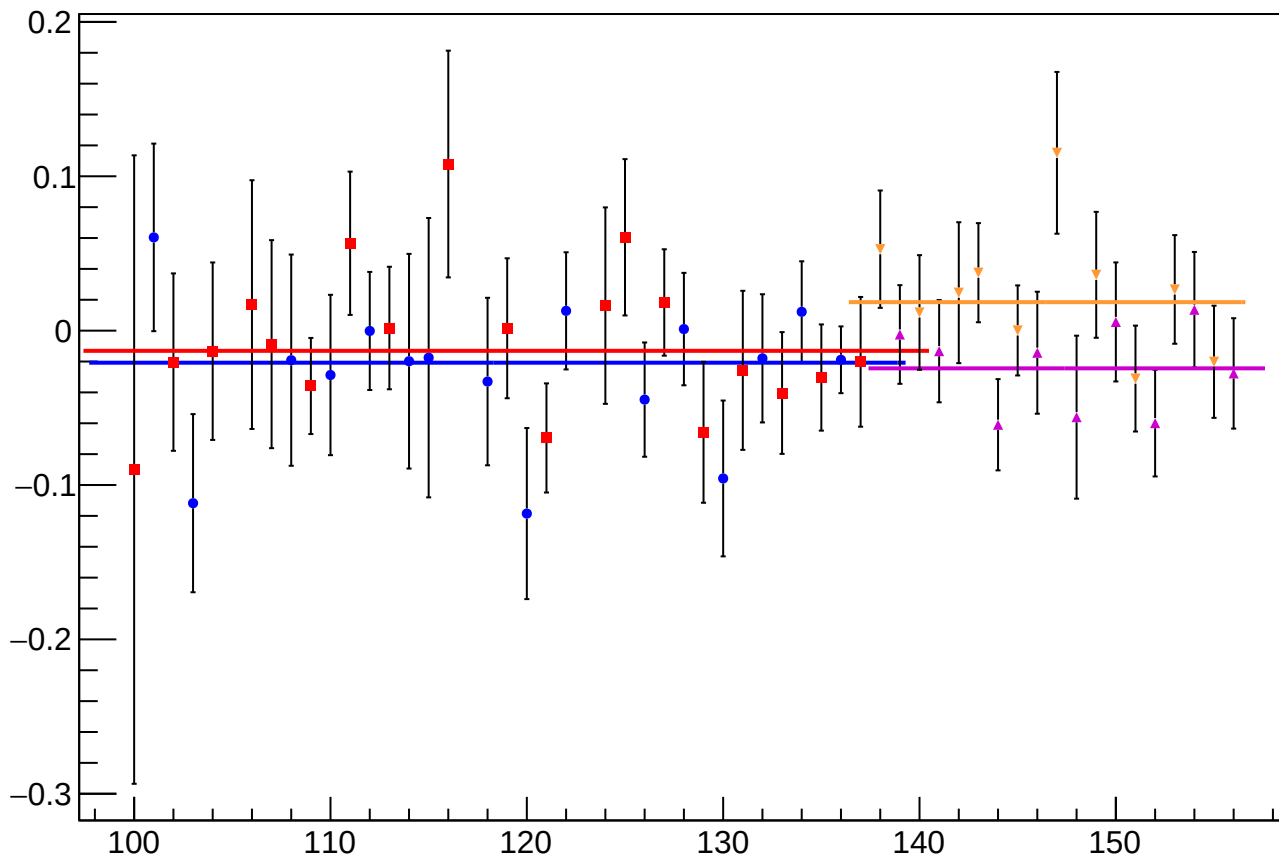
Right: 27.342 $\pm$ 0.005 χ^2 /NDF: 1891228.7/34

In: 29.490 $\pm$ 0.006 χ^2 /NDF:1699363.5/24

Out: 29.709 $\pm$ 0.006 χ^2 /NDF:1233732.1/28

All: 29.601 $\pm$ 0.004 χ^2 /NDF: 2933870.1/53

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.018 ± 0.012 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.024 ± 0.012 $\chi^2/\text{NDF}: 5.2/8$

Left: -0.002 ± 0.008 $\chi^2/\text{NDF}: 20.4/18$

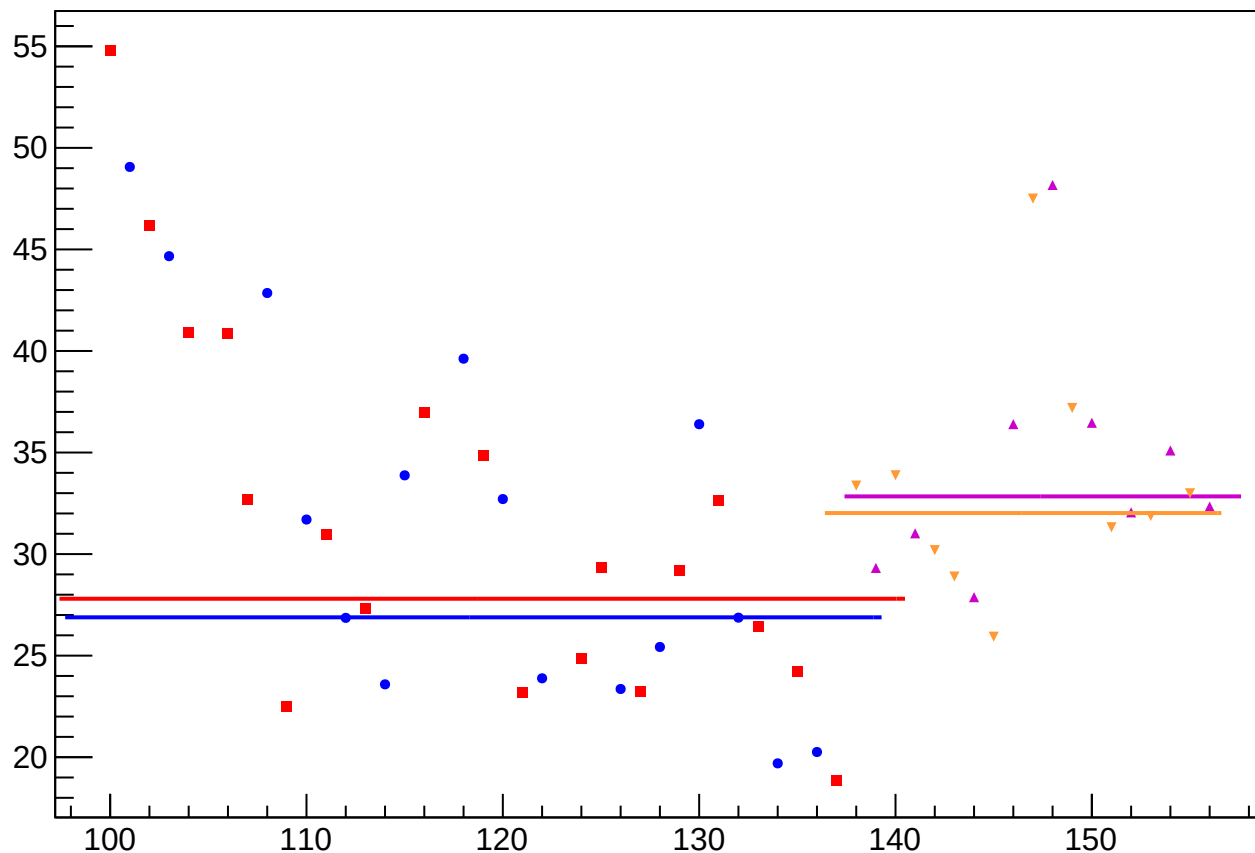
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.022 ± 0.008 $\chi^2/\text{NDF}: 17.8/24$

Out: 0.001 ± 0.008 $\chi^2/\text{NDF}: 26.4/28$

All: -0.010 ± 0.006 $\chi^2/\text{NDF}: 48.8/53$

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: 32.020 $\pm$ 0.008 χ^2 /NDF: 325872.6/9

Right Out: 27.802 $\pm$ 0.007 χ^2 /NDF: 763106.1/18

Left In: 32.840 $\pm$ 0.008 χ^2 /NDF: 297985.6/8

Left: 32.419 $\pm$ 0.006 χ^2 /NDF: 628719.7/18

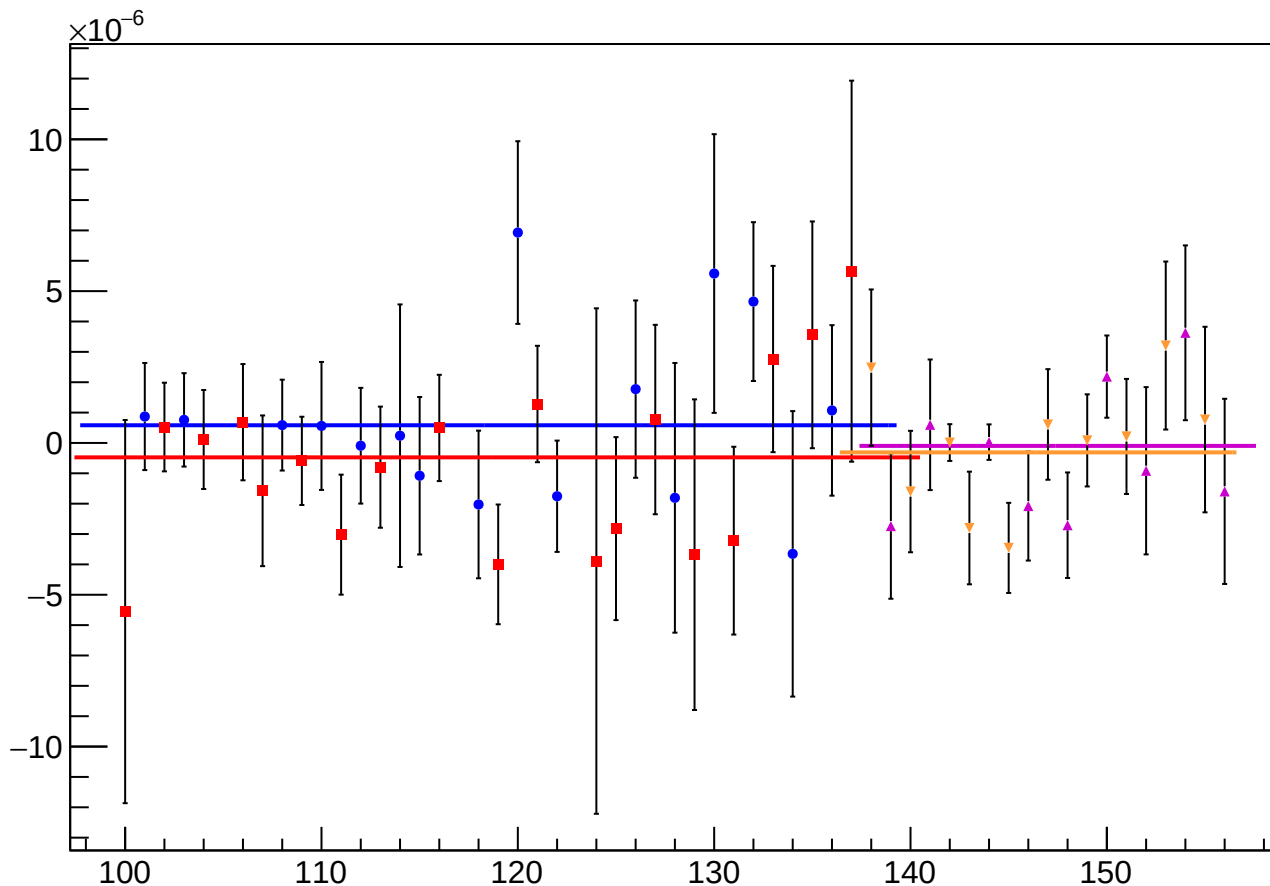
Right: 27.342 $\pm$ 0.005 χ^2 /NDF: 1891228.7/34

In: 29.490 $\pm$ 0.006 χ^2 /NDF: 1699363.5/24

Out: 29.709 $\pm$ 0.006 χ^2 /NDF: 1233732.1/28

All: 29.601 $\pm$ 0.004 χ^2 /NDF: 2933870.1/53

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 : 10.3/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 9.7/8

Left: -0.000 ± 0.000 χ^2/NDF : 20.1/18

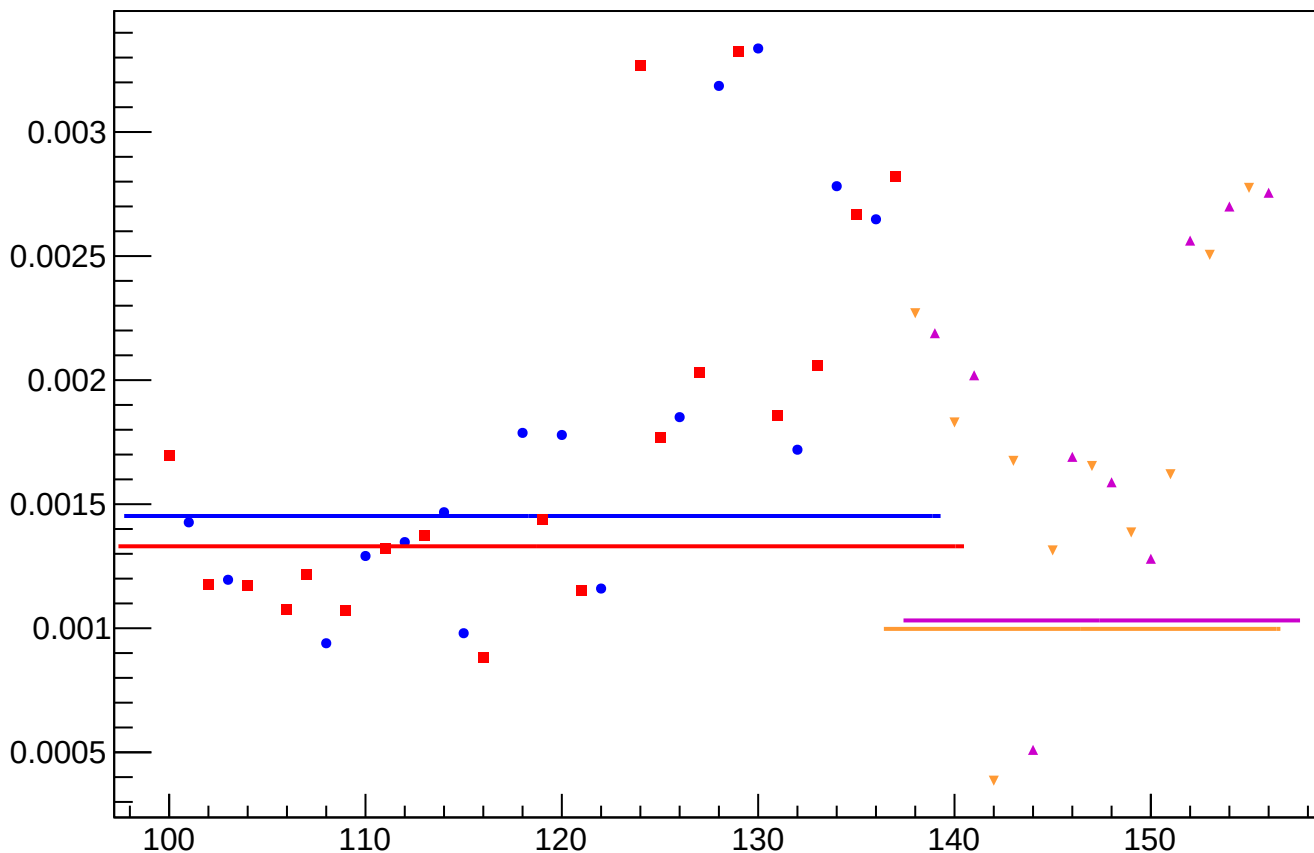
Right: -0.000 ± 0.000 χ^2/NDF : 27.8/34

In: 0.000 ± 0.000 χ^2/NDF : 23.3/24

Out: -0.000 ± 0.000 χ^2/NDF : 23.6/28

All: -0.000 ± 0.000 χ^2/NDF : 48.1/53

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 : 5110480.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 1402821.5/18

Left In: 0.001+/-0.000 χ^2/NDF : 4955555.7/8

Left: 0.001+/-0.000 χ^2/NDF : 10071821.2/18

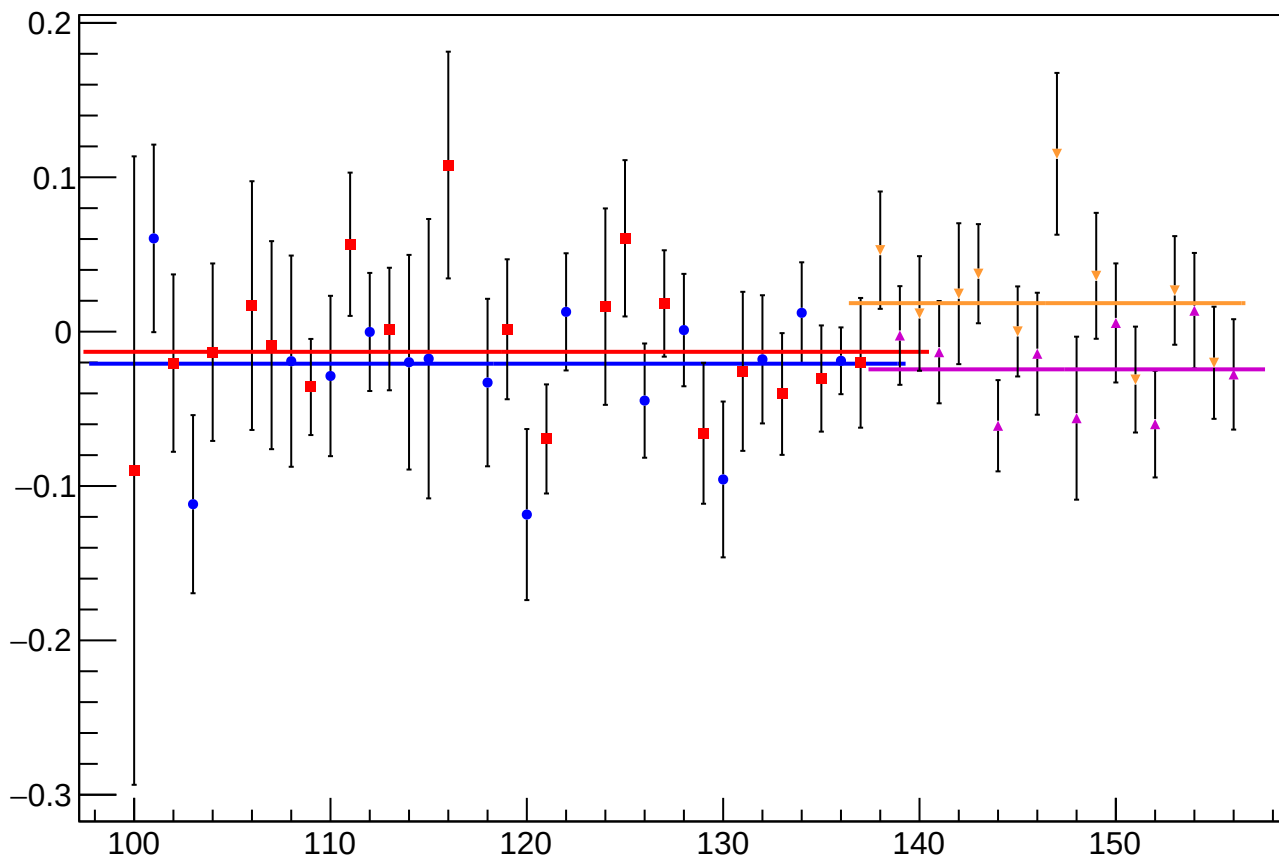
Right: 0.001+/-0.000 χ^2/NDF : 3162860.5/34

In: 0.001+/-0.000 χ^2/NDF : 7324502.2/24

Out: 0.001+/-0.000 χ^2/NDF : 6990677.5/28

All: 0.001+/-0.000 χ^2/NDF : 14340143.1/53

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: 0.018 ± 0.012 χ^2/NDF : 8.5/9

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.024 ± 0.012 χ^2/NDF : 5.2/8

Left: -0.002 ± 0.008 χ^2/NDF : 20.4/18

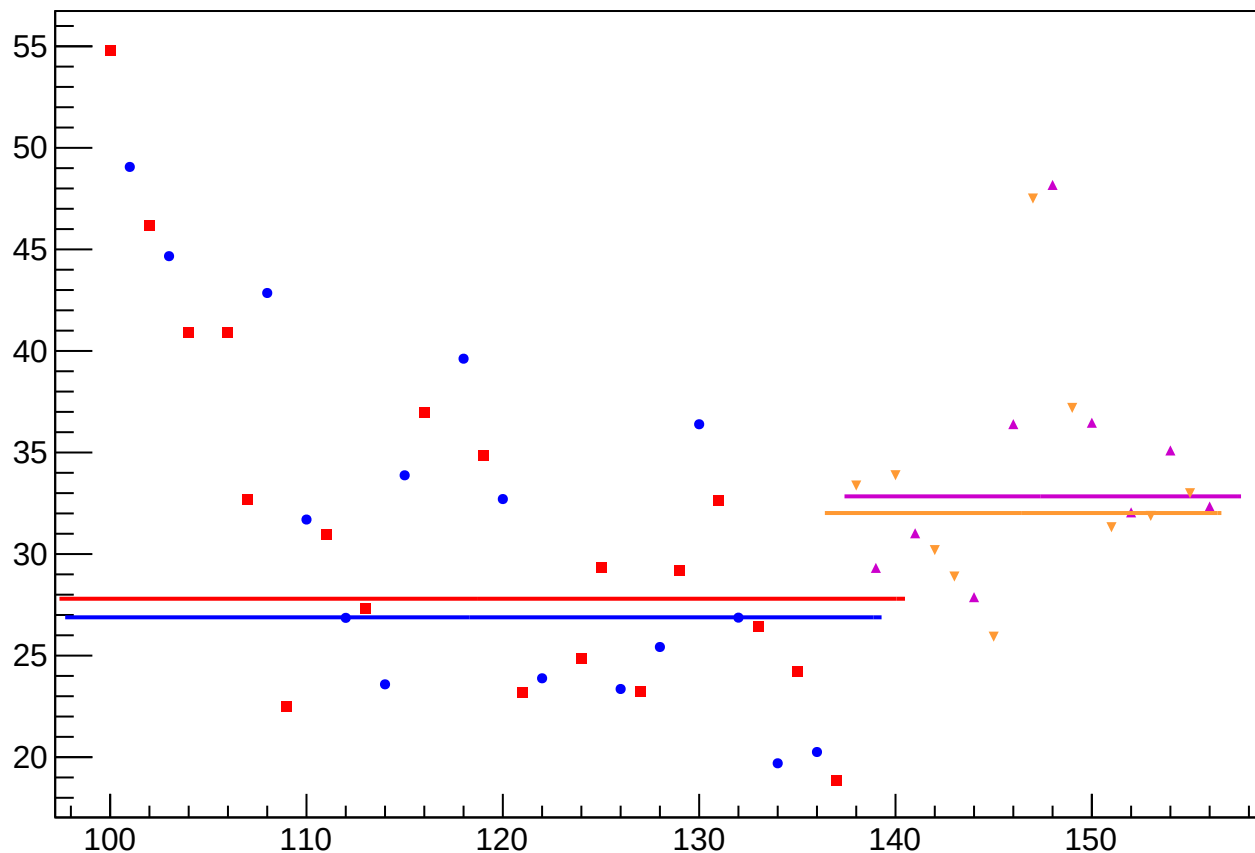
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.022 ± 0.008 χ^2/NDF : 17.8/24

Out: 0.001 ± 0.008 χ^2/NDF : 26.4/28

All: -0.010 ± 0.006 χ^2/NDF : 48.8/53

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: 32.020 $\pm$ 0.008 χ^2 /NDF:325925.8/9

Right Out: 27.800 $\pm$ 0.007 χ^2 /NDF: 763213.5/18

Left In: 32.841 $\pm$ 0.008 χ^2 /NDF:297993.6/8

Left: 32.420 $\pm$ 0.006 χ^2 /NDF: 628785.1/18

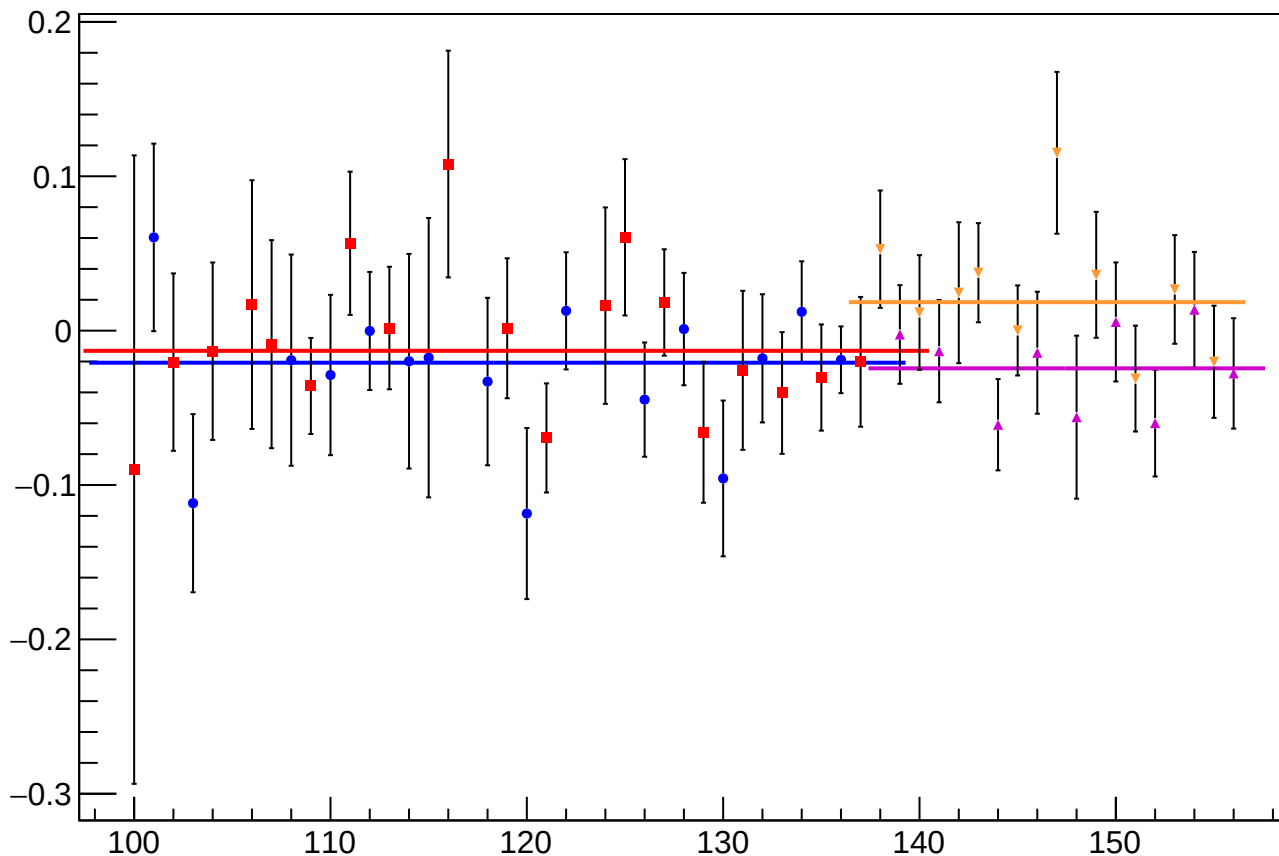
Right: 27.341 $\pm$ 0.005 χ^2 /NDF: 1891338.8/34

In: 29.490 $\pm$ 0.006 χ^2 /NDF:1699521.3/24

Out: 29.708 $\pm$ 0.006 χ^2 /NDF:1234004.9/28

All: 29.600 $\pm$ 0.004 χ^2 /NDF: 2934298.1/53

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.018 ± 0.012 $\chi^2/\text{NDF}: 8.5/9$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.024 ± 0.012 $\chi^2/\text{NDF}: 5.2/8$

Left: -0.002 ± 0.008 $\chi^2/\text{NDF}: 20.4/18$

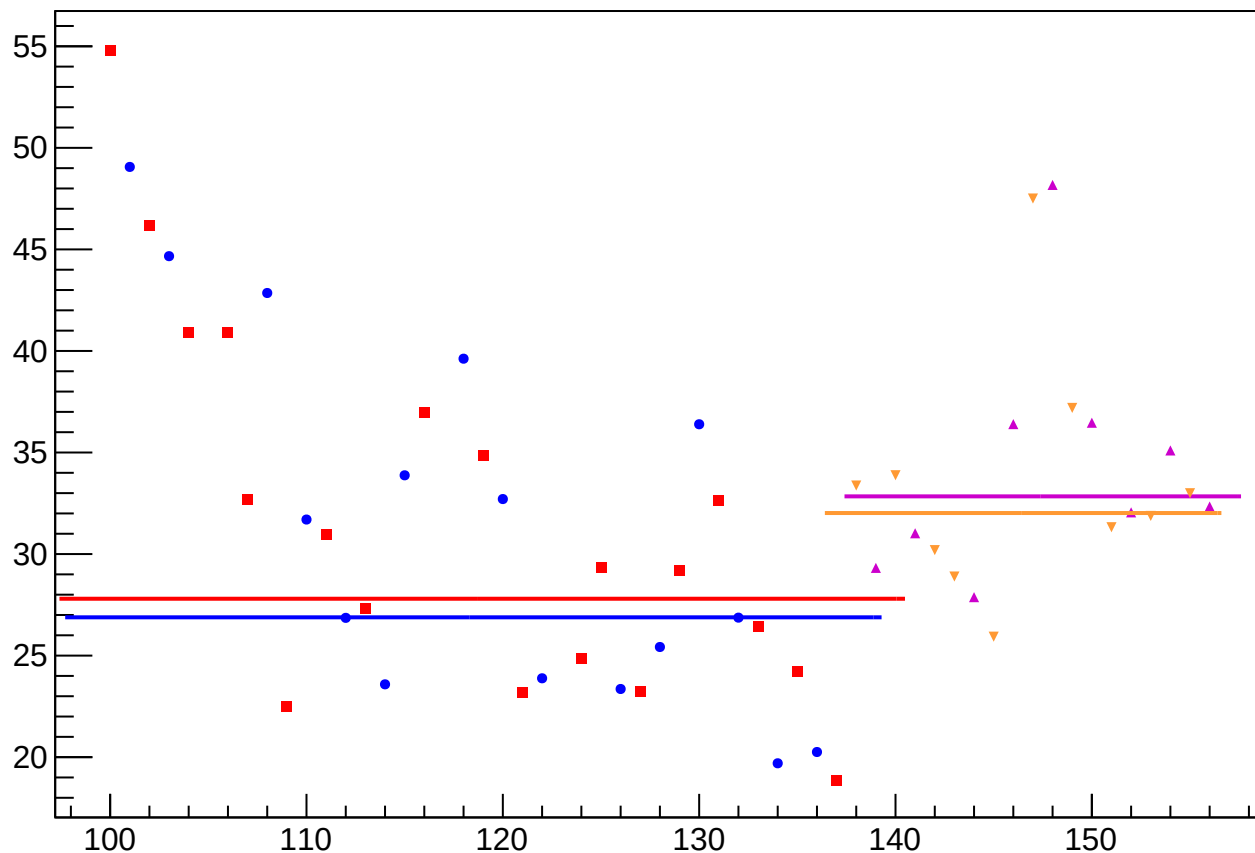
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.022 ± 0.008 $\chi^2/\text{NDF}: 17.8/24$

Out: 0.001 ± 0.008 $\chi^2/\text{NDF}: 26.4/28$

All: -0.010 ± 0.006 $\chi^2/\text{NDF}: 48.8/53$

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: 32.020 $\pm$ 0.008 χ^2 /NDF:325925.8/9

Right Out: 27.800 $\pm$ 0.007 χ^2 /NDF: 763213.5/18

Left In: 32.841 $\pm$ 0.008 χ^2 /NDF:297993.6/8

Left: 32.420 $\pm$ 0.006 χ^2 /NDF: 628785.1/18

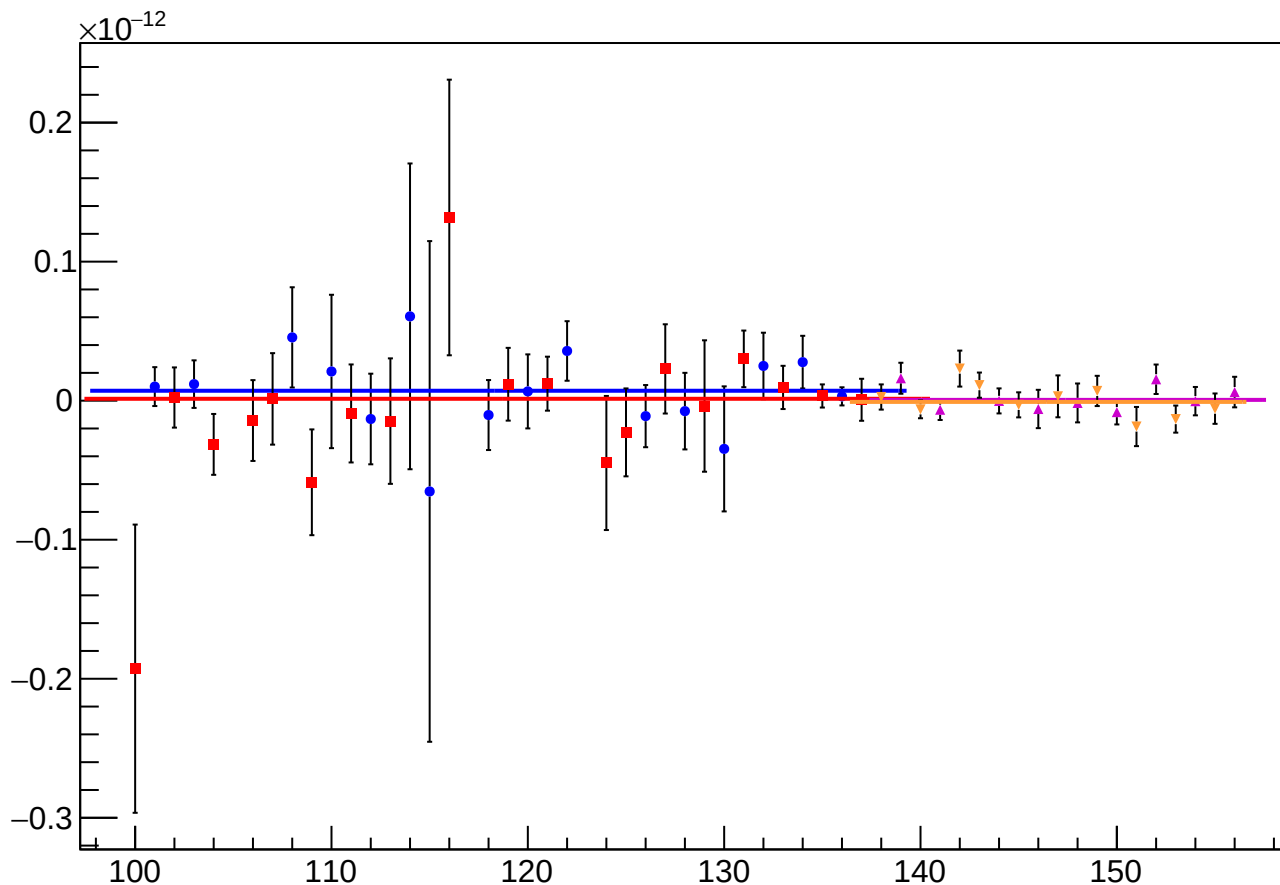
Right: 27.341 $\pm$ 0.005 χ^2 /NDF: 1891338.8/34

In: 29.490 $\pm$ 0.006 χ^2 /NDF:1699521.3/24

Out: 29.708 $\pm$ 0.006 χ^2 /NDF:1234004.9/28

All: 29.600 $\pm$ 0.004 χ^2 /NDF: 2934298.1/53

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 :10.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: 0.000+/-0.000 χ^2/NDF :6.3/8

Left: -0.000+/-0.000 χ^2/NDF : 16.5/18

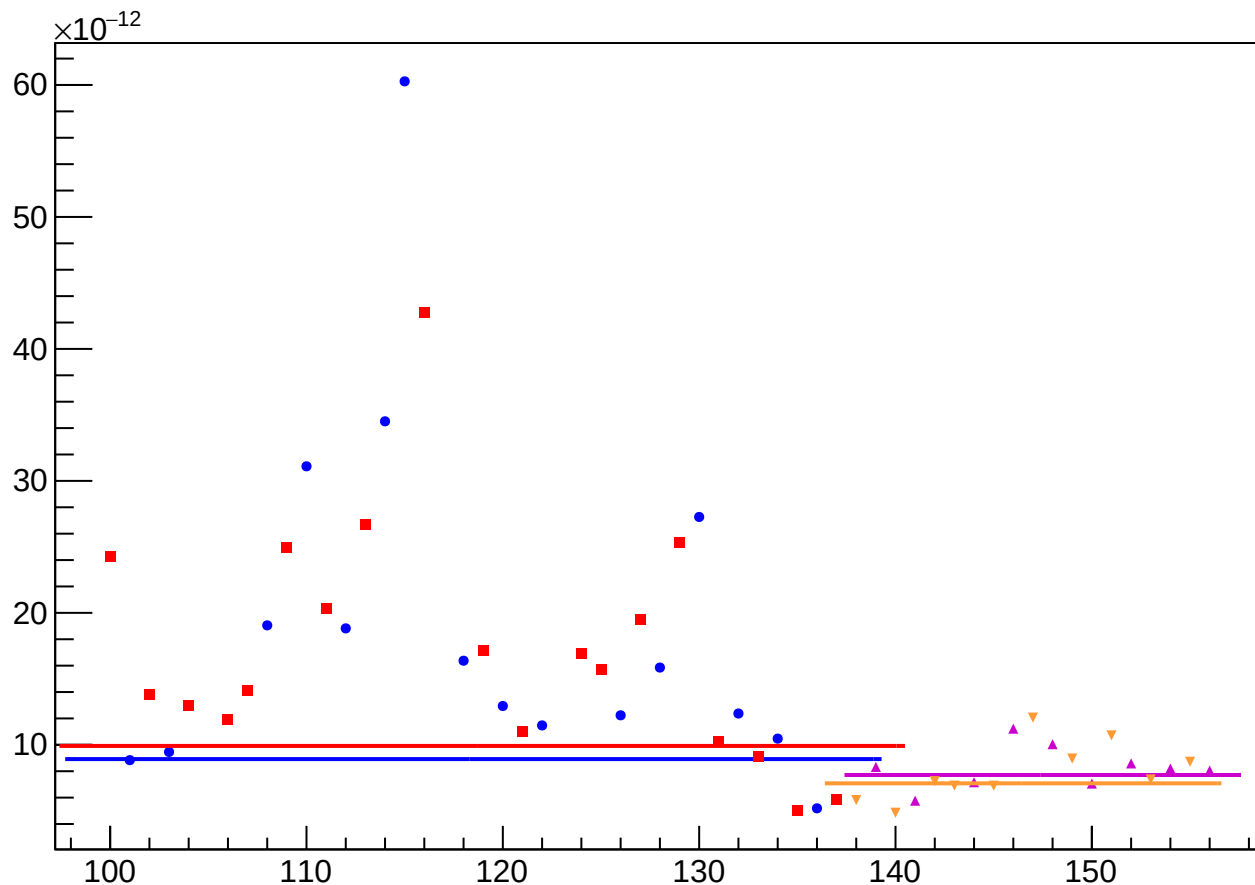
Right: 0.000+/-0.000 χ^2/NDF : 24.3/34

In: 0.000+/-0.000 χ^2/NDF :16.0/24

Out: -0.000+/-0.000 χ^2/NDF :25.5/28

All: 0.000+/-0.000 χ^2/NDF : 42.1/53

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 : 740260.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2669812.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 368674.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1147145.2/18

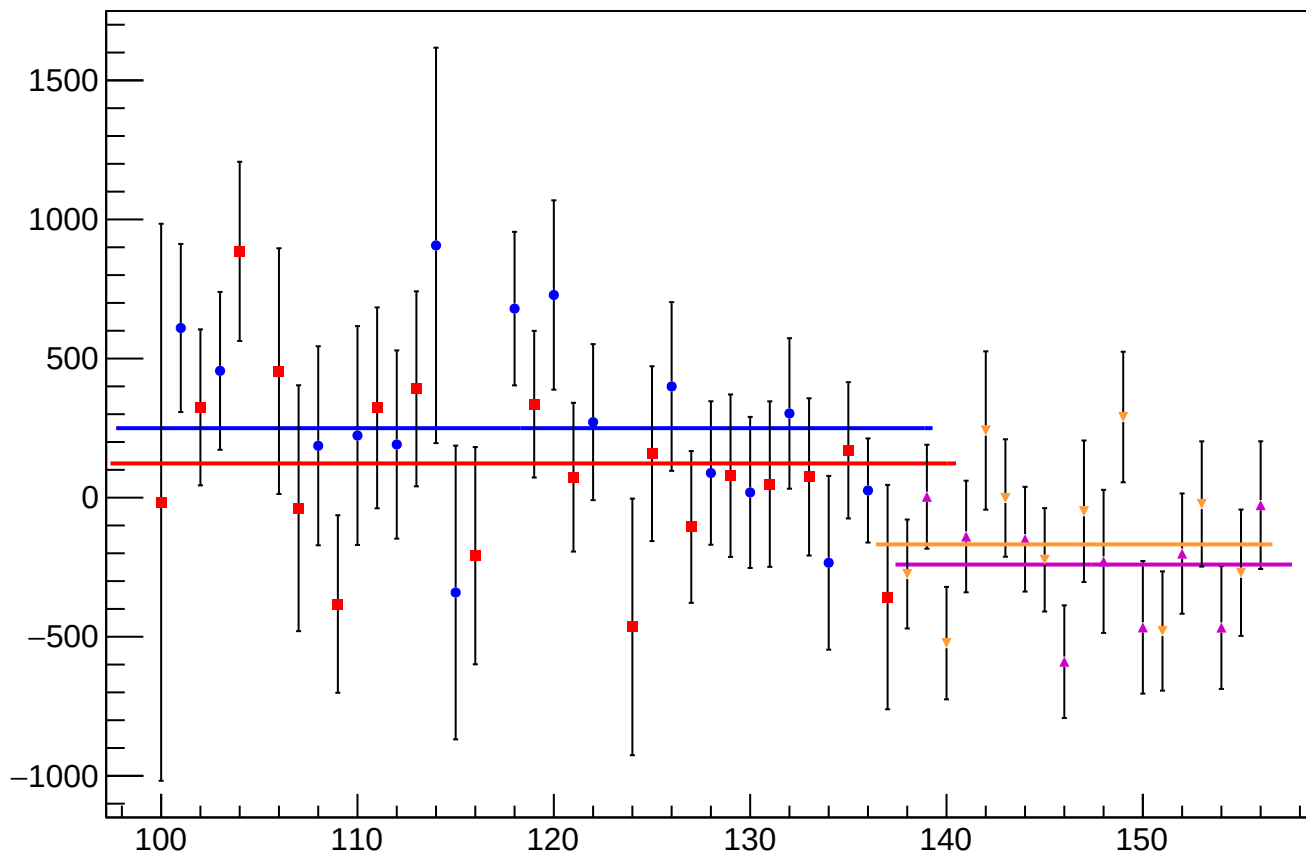
Right: 0.000+/-0.000 χ^2/NDF : 5116378.6/34

In: 0.000+/-0.000 χ^2/NDF : 2861469.7/24

Out: 0.000+/-0.000 χ^2/NDF : 3880785.5/28

All: 0.000+/-0.000 χ^2/NDF : 6751297.0/53

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: -168.000 $\pm$ 69.208 χ^2 /NDF:12.9/9

Right Out: 122.993 $\pm$ 74.370 χ^2 /NDF: 15.6/18

Left In: -240.464 $\pm$ 70.769 χ^2 /NDF:8.0/8

Left: -203.424 $\pm$ 49.480 χ^2 /NDF: 21.5/18

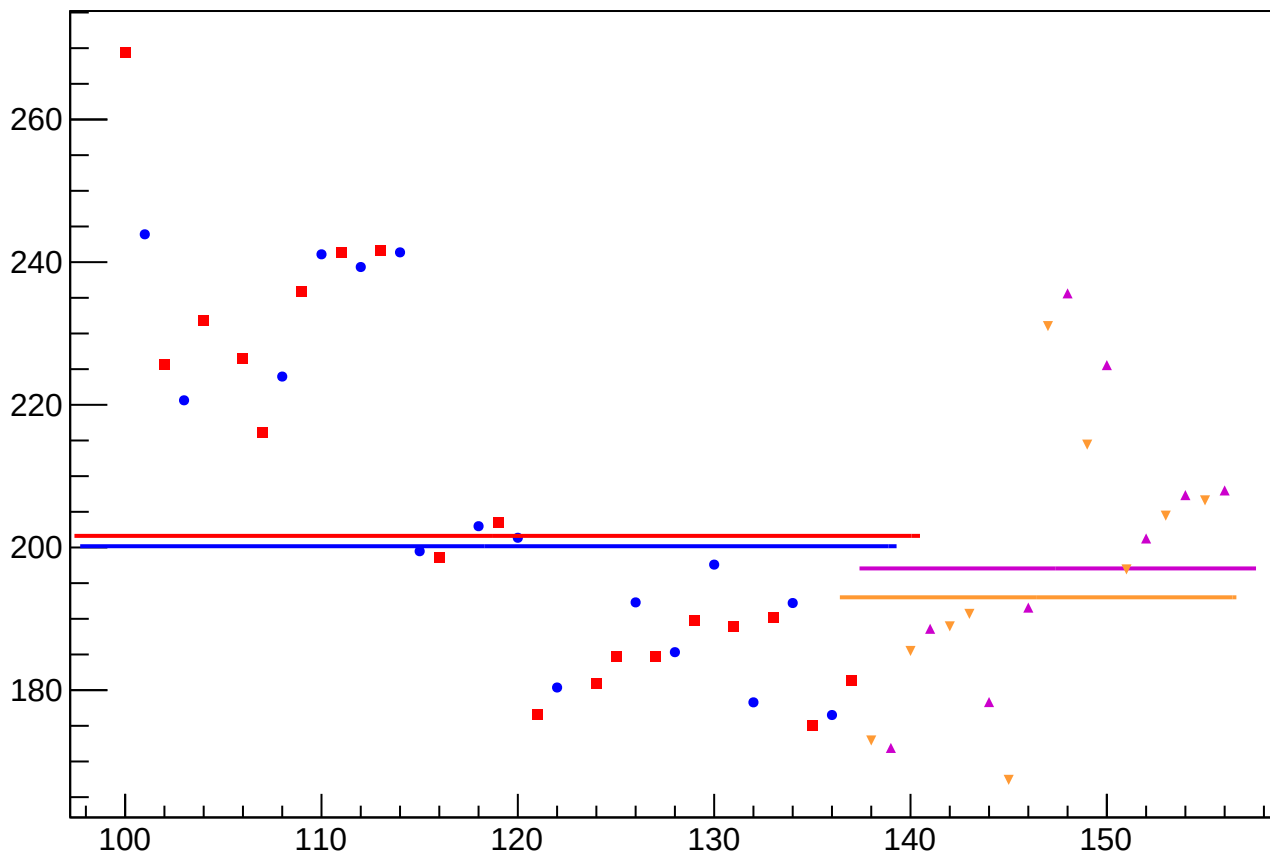
Right: 185.946 $\pm$ 52.766 χ^2 /NDF: 30.8/34

In: -9.167 $\pm$ 51.432 χ^2 /NDF:44.4/24

Out: -32.951 $\pm$ 50.664 χ^2 /NDF:36.7/28

All: -21.238 $\pm$ 36.094 χ^2 /NDF: 81.2/53

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: 193.015 $\pm$ 0.049 χ^2/NDF : 136685.1/9

Right Out: 201.627 $\pm$ 0.053 χ^2/NDF : 197245.7/18

Left In: 197.063 $\pm$ 0.050 χ^2/NDF : 144307.3/8

Left: 194.994 $\pm$ 0.035 χ^2/NDF : 284338.4/18

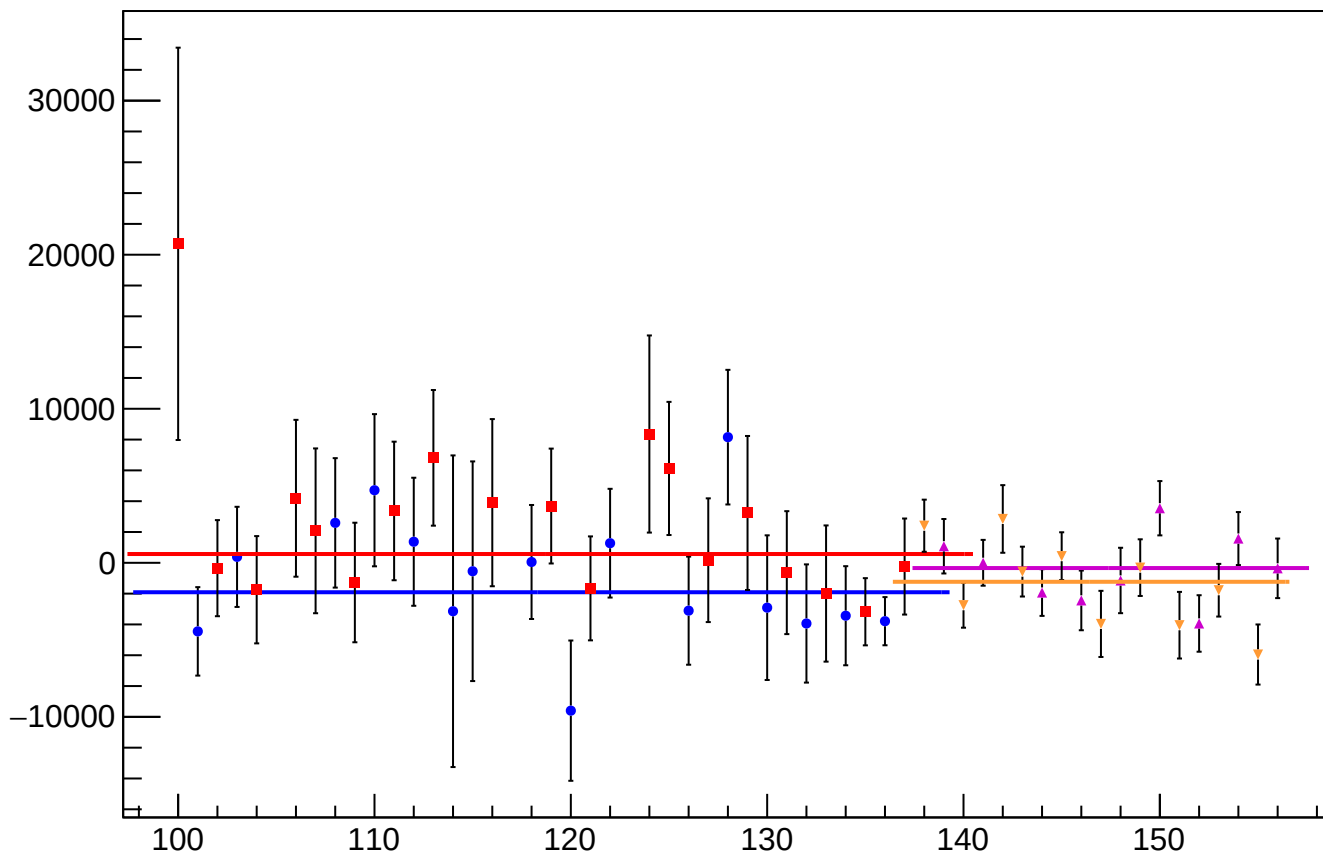
Right: 200.907 $\pm$ 0.037 χ^2/NDF : 378624.7/34

In: 198.532 $\pm$ 0.036 χ^2/NDF : 327135.1/24

Out: 197.012 $\pm$ 0.036 χ^2/NDF : 348304.8/28

All: 197.761 $\pm$ 0.026 χ^2/NDF : 676327.2/53

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: -1231.473 $\pm$ 562.949 χ^2 /NDF:20.0/9

Right Out: 570.946 $\pm$ 900.451 χ^2 /NDF: 14.6/18

Left In: -340.046 $\pm$ 585.148 χ^2 /NDF:13.1/8

Left: -802.990 $\pm$ 405.686 χ^2 /NDF: 34.3/18

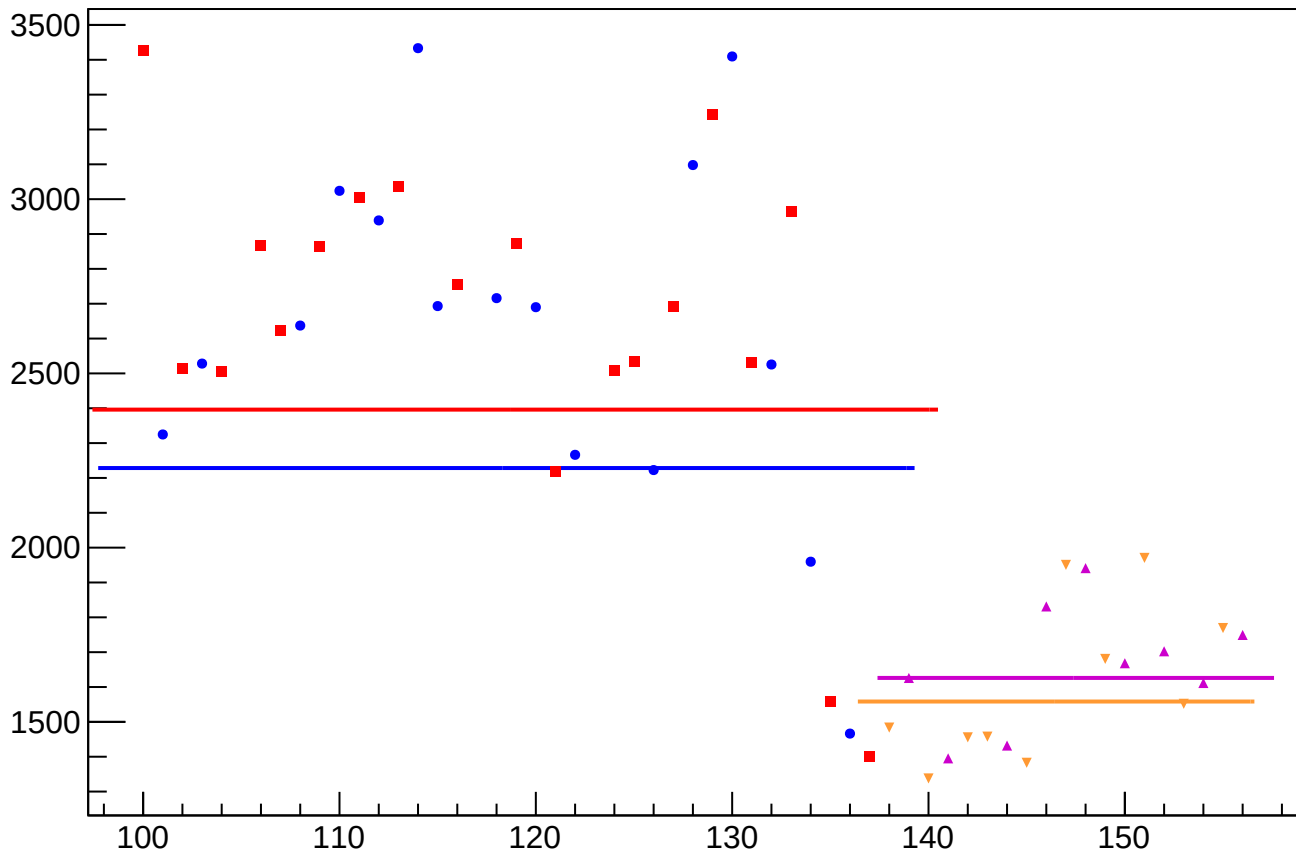
Right: -728.000 $\pm$ 621.575 χ^2 /NDF: 34.9/34

In: -837.689 $\pm$ 483.621 χ^2 /NDF:31.6/24

Out: -724.960 $\pm$ 477.340 χ^2 /NDF:37.5/28

All: -780.588 $\pm$ 339.729 χ^2 /NDF: 69.2/53

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: 1558.387+/-0.398 χ^2/NDF : 259089.5/9

Right Out: 2396.080+/-0.637 χ^2/NDF : 799442.5/18

Left In: 1626.120+/-0.414 χ^2/NDF : 160374.6/8

Left: 1590.944+/-0.287 χ^2/NDF : 433380.6/18

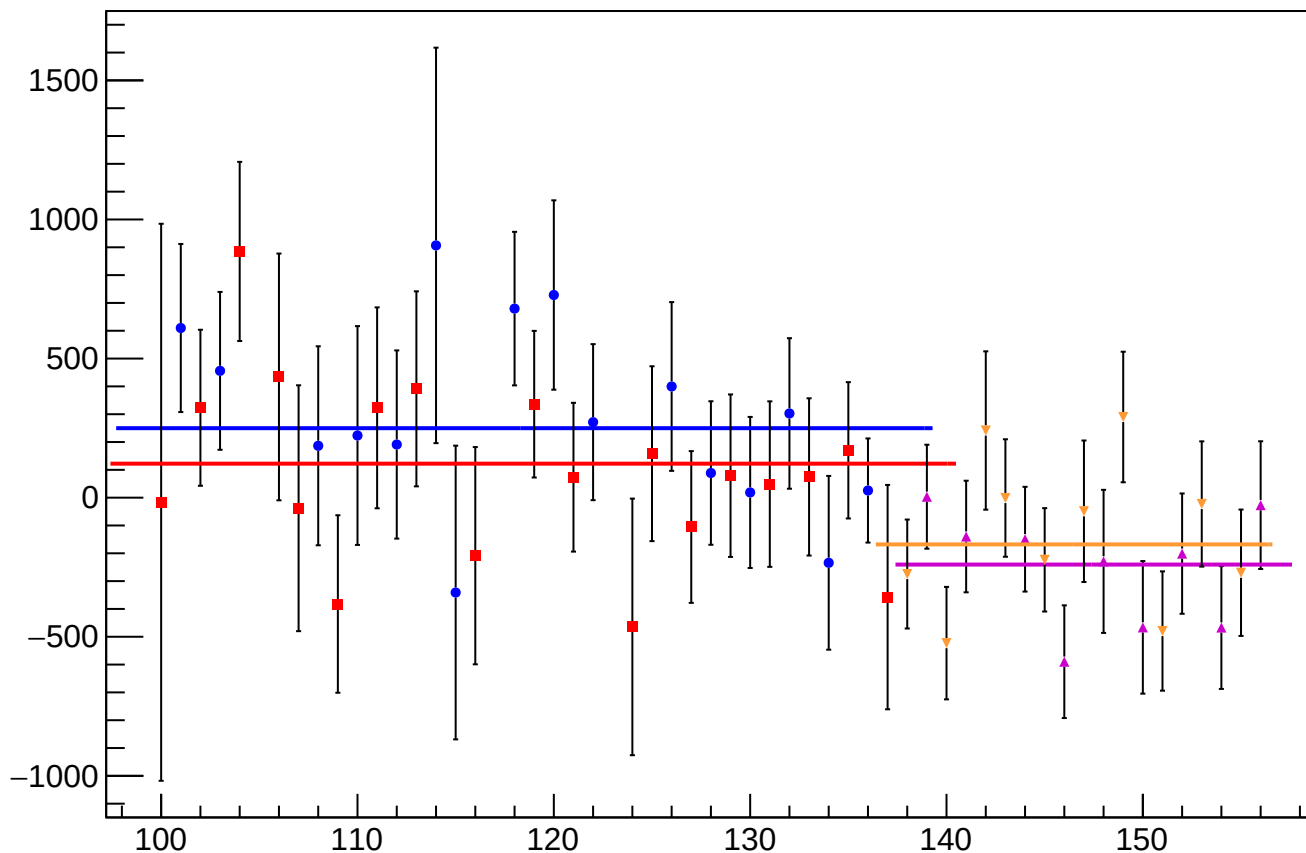
Right: 2308.317+/-0.440 χ^2/NDF : 1783390.1/34

In: 1816.998+/-0.342 χ^2/NDF : 1779575.9/24

Out: 1793.795+/-0.338 χ^2/NDF : 2303035.6/28

All: 1805.244+/-0.240 χ^2/NDF : 4084943.5/53

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: -167.998 $\pm$ 69.208 χ^2 /NDF:12.9/9

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -240.462 $\pm$ 70.769 χ^2 /NDF:8.0/8

Left: -203.422 $\pm$ 49.480 χ^2 /NDF: 21.5/18

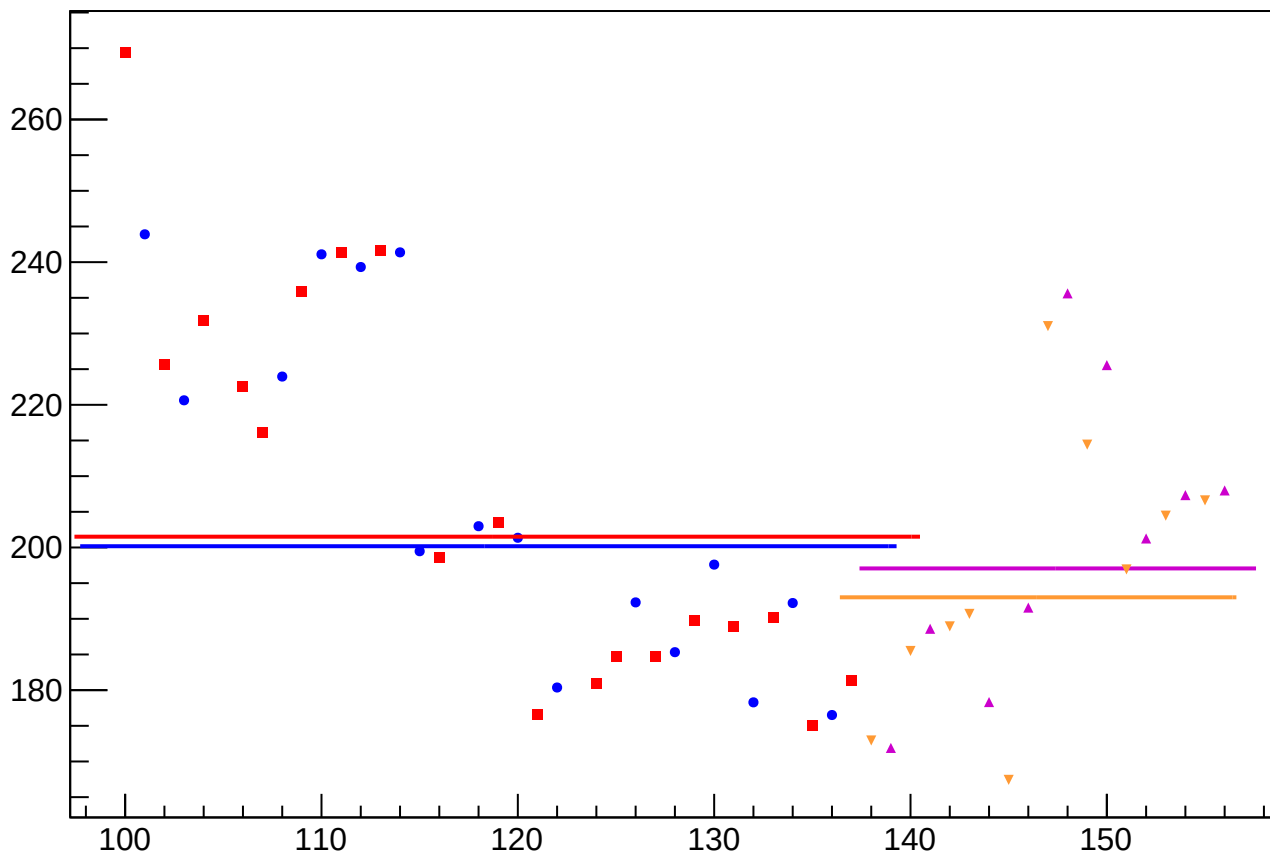
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: -9.165 $\pm$ 51.432 χ^2 /NDF:44.4/24

Out: -33.334 $\pm$ 50.667 χ^2 /NDF:36.5/28

All: -21.430 $\pm$ 36.095 χ^2 /NDF: 81.1/53

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: 193.015 $\pm$ 0.049 χ^2 /NDF:136685.1/9

Right Out: 201.514 $\pm$ 0.053 χ^2 /NDF: 195431.2/18

Left In: 197.063 $\pm$ 0.050 χ^2 /NDF:144307.3/8

Left: 194.994 $\pm$ 0.035 χ^2 /NDF: 284338.4/18

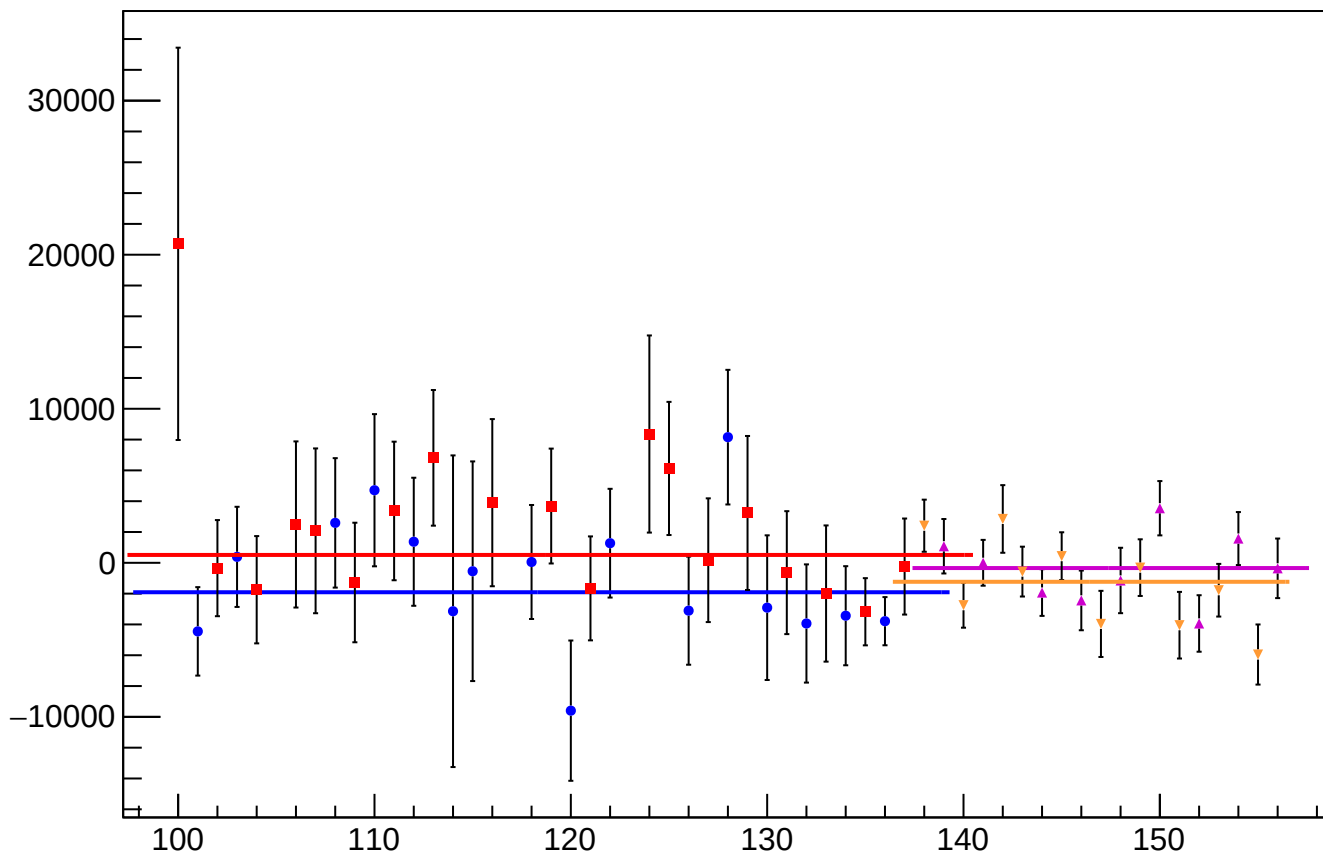
Right: 200.850 $\pm$ 0.037 χ^2 /NDF: 376754.0/34

In: 198.532 $\pm$ 0.036 χ^2 /NDF:327135.4/24

Out: 196.959 $\pm$ 0.036 χ^2 /NDF:346114.2/28

All: 197.734 $\pm$ 0.026 χ^2 /NDF: 674199.8/53

asym_sam_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1910.310+/-859.089 χ^2/NDF : 16.3/15

Left Out: -1231.476+/-562.949 χ^2/NDF : 20.0/9

Right Out: 511.276+/-902.014 χ^2/NDF : 14.2/18

Left In: -340.039+/-585.148 χ^2/NDF : 13.1/8

Left: -802.987+/-405.686 χ^2/NDF : 34.3/18

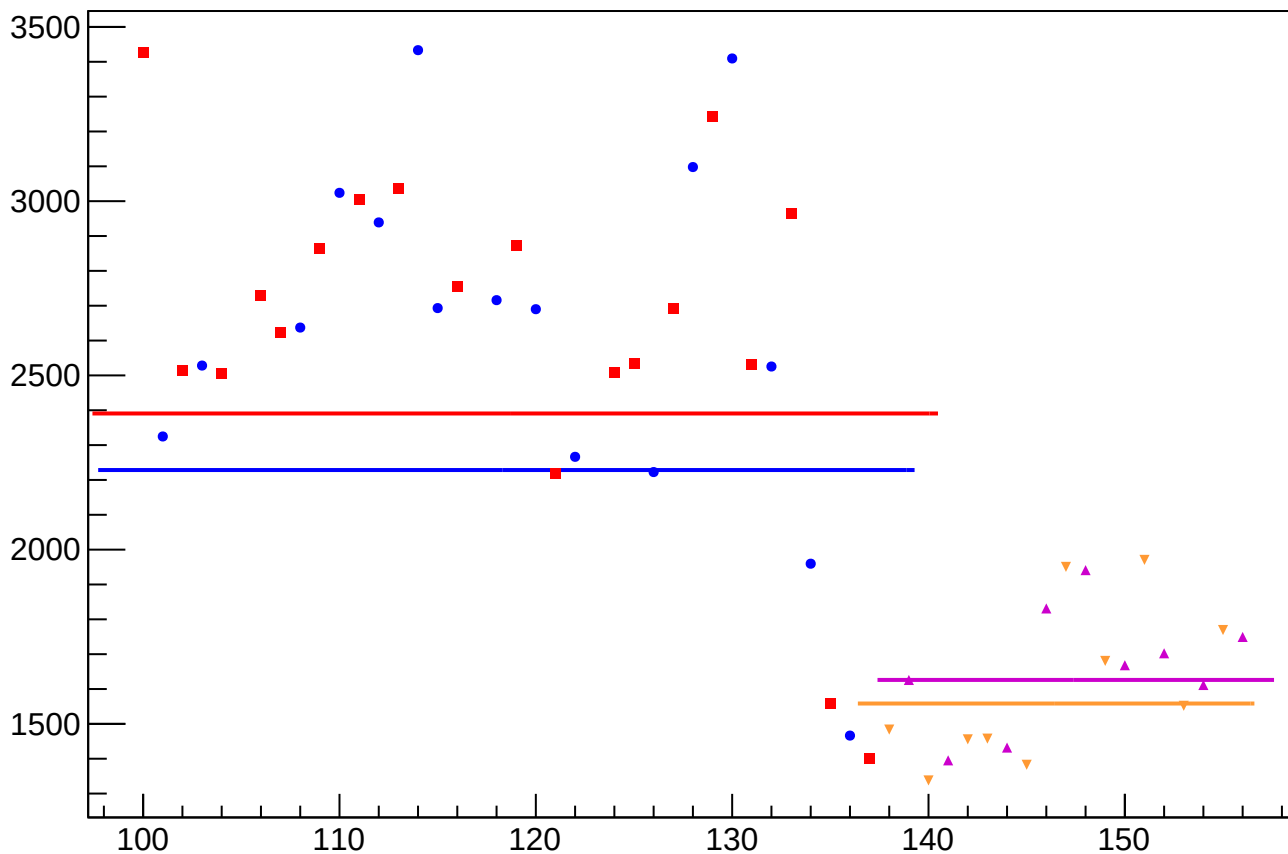
Right: -758.506+/-622.089 χ^2/NDF : 34.3/34

In: -837.671+/-483.621 χ^2/NDF : 31.6/24

Out: -742.951+/-477.572 χ^2/NDF : 37.0/28

All: -789.715+/-339.813 χ^2/NDF : 68.6/53

asym_sam_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2228.435 $\pm$ 0.607 χ^2 /NDF: 947659.2/15

Left Out: 1558.387 $\pm$ 0.398 χ^2 /NDF: 259090.0/9

Right Out: 2390.731 $\pm$ 0.638 χ^2 /NDF: 790004.4/18

Left In: 1626.120 $\pm$ 0.414 χ^2 /NDF: 160375.0/8

Left: 1590.944 $\pm$ 0.287 χ^2 /NDF: 433381.7/18

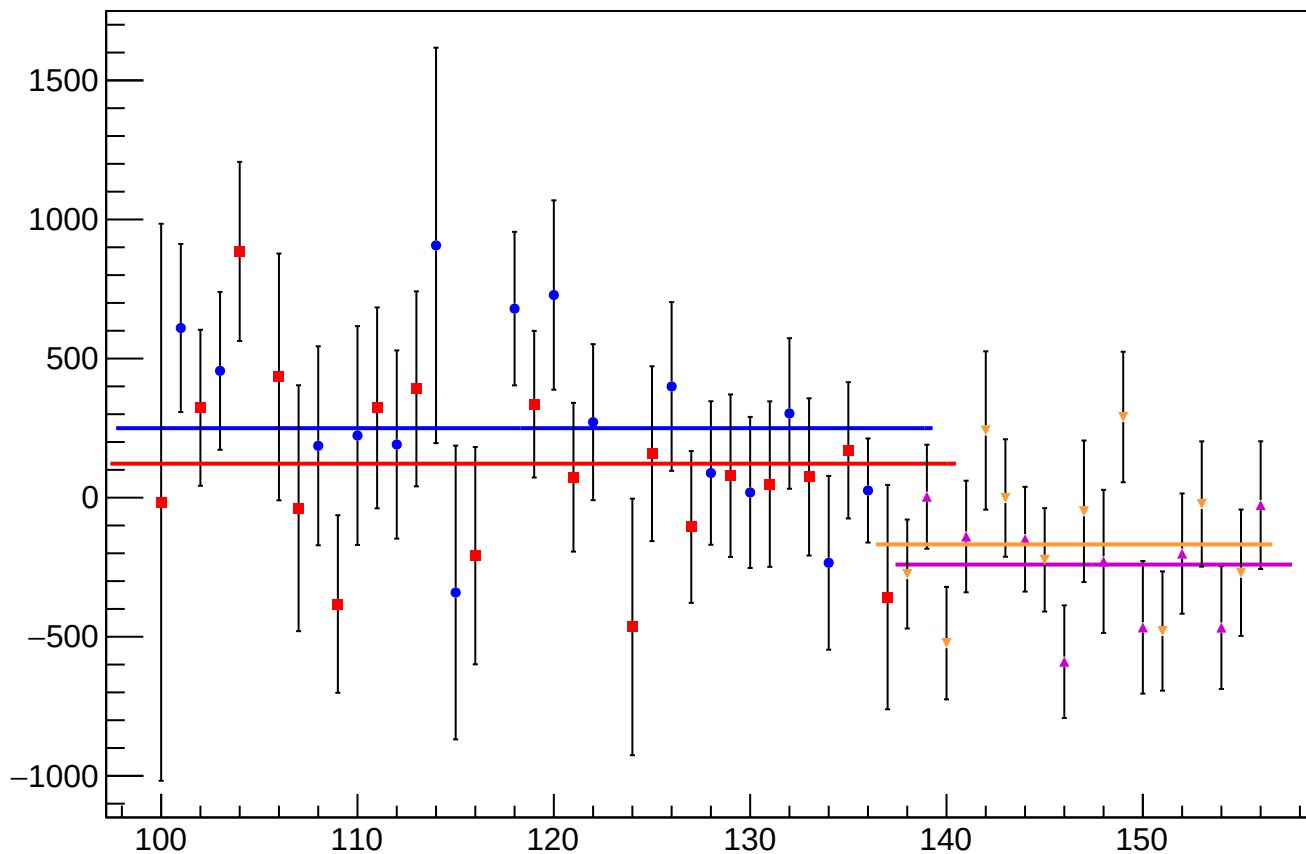
Right: 2305.630 $\pm$ 0.440 χ^2 /NDF: 1771614.3/34

In: 1816.999 $\pm$ 0.342 χ^2 /NDF: 1779586.7/24

Out: 1791.708 $\pm$ 0.338 χ^2 /NDF: 2274695.1/28

All: 1804.194 $\pm$ 0.240 χ^2 /NDF: 4057050.8/53

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: -167.998 $\pm$ 69.208 χ^2 /NDF:12.9/9

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -240.462 $\pm$ 70.769 χ^2 /NDF:8.0/8

Left: -203.422 $\pm$ 49.480 χ^2 /NDF: 21.5/18

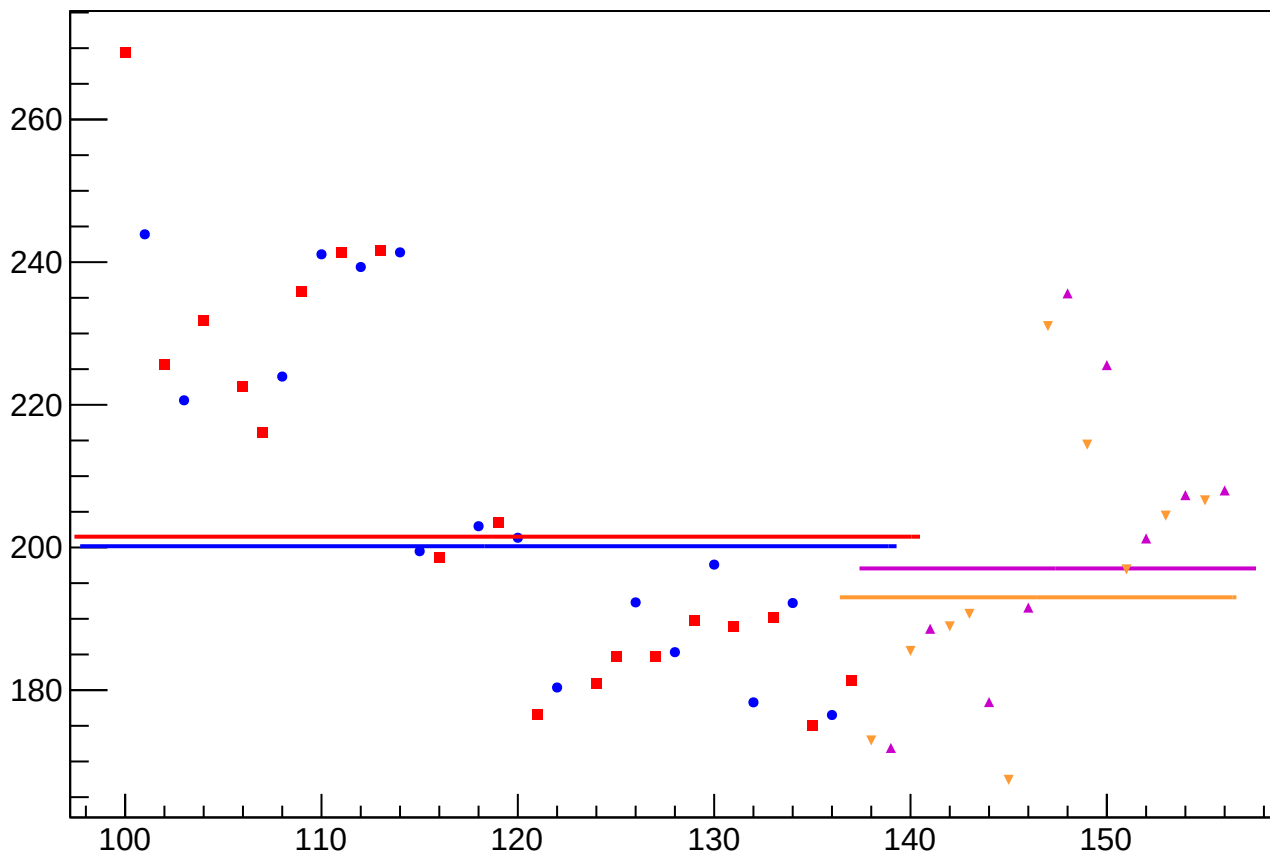
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: -9.165 $\pm$ 51.432 χ^2 /NDF:44.4/24

Out: -33.334 $\pm$ 50.667 χ^2 /NDF:36.5/28

All: -21.430 $\pm$ 36.095 χ^2 /NDF: 81.1/53

eigen_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: 193.015 $\pm$ 0.049 χ^2 /NDF:136685.1/9

Right Out: 201.514 $\pm$ 0.053 χ^2 /NDF: 195431.2/18

Left In: 197.063 $\pm$ 0.050 χ^2 /NDF:144307.3/8

Left: 194.994 $\pm$ 0.035 χ^2 /NDF: 284338.4/18

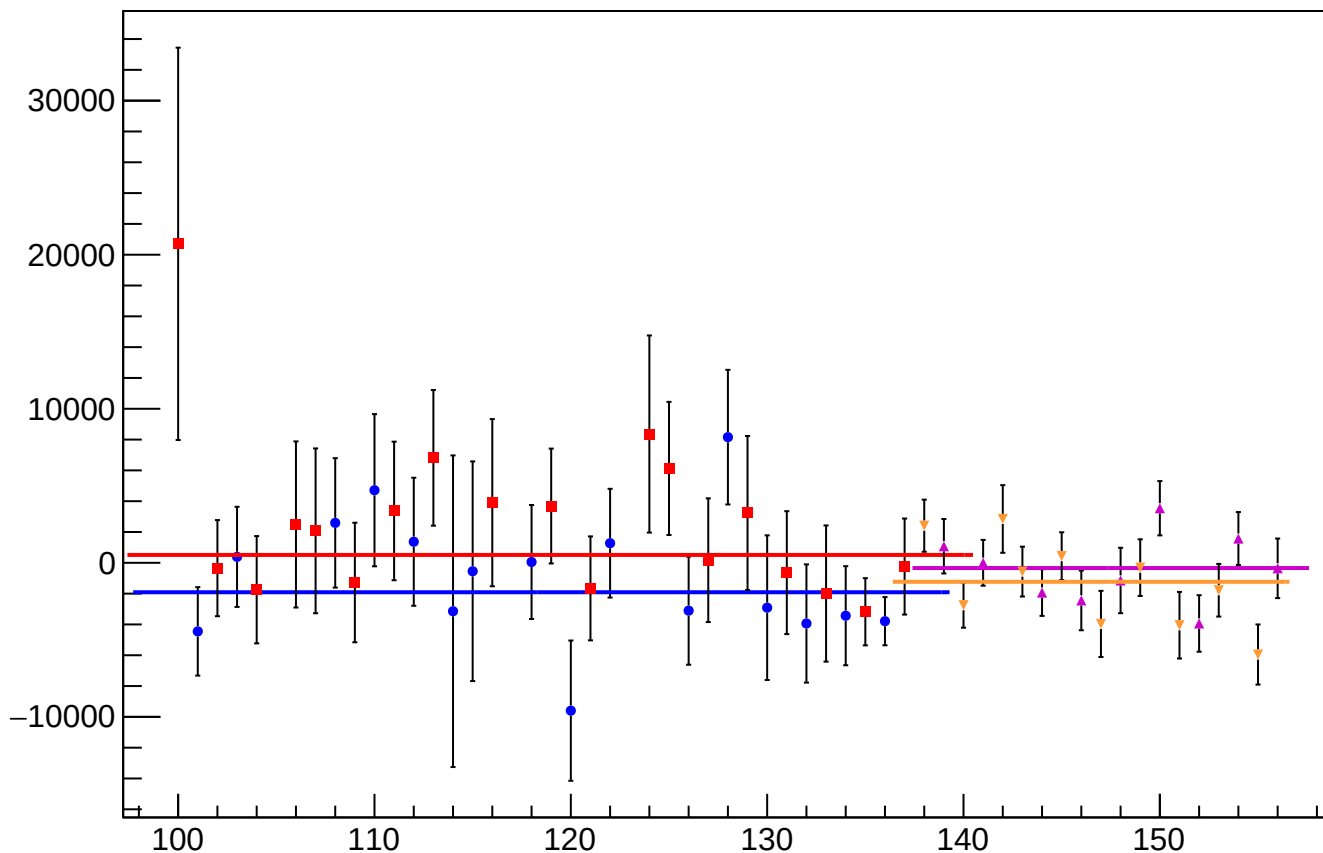
Right: 200.850 $\pm$ 0.037 χ^2 /NDF: 376754.0/34

In: 198.532 $\pm$ 0.036 χ^2 /NDF:327135.4/24

Out: 196.959 $\pm$ 0.036 χ^2 /NDF:346114.2/28

All: 197.734 $\pm$ 0.026 χ^2 /NDF: 674199.8/53

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: -1231.476 ± 562.949 χ^2/NDF : 20.0/9

Right Out: 511.276 ± 902.014 χ^2/NDF : 14.2/18

Left In: -340.039 ± 585.148 χ^2/NDF : 13.1/8

Left: -802.987 ± 405.686 χ^2/NDF : 34.3/18

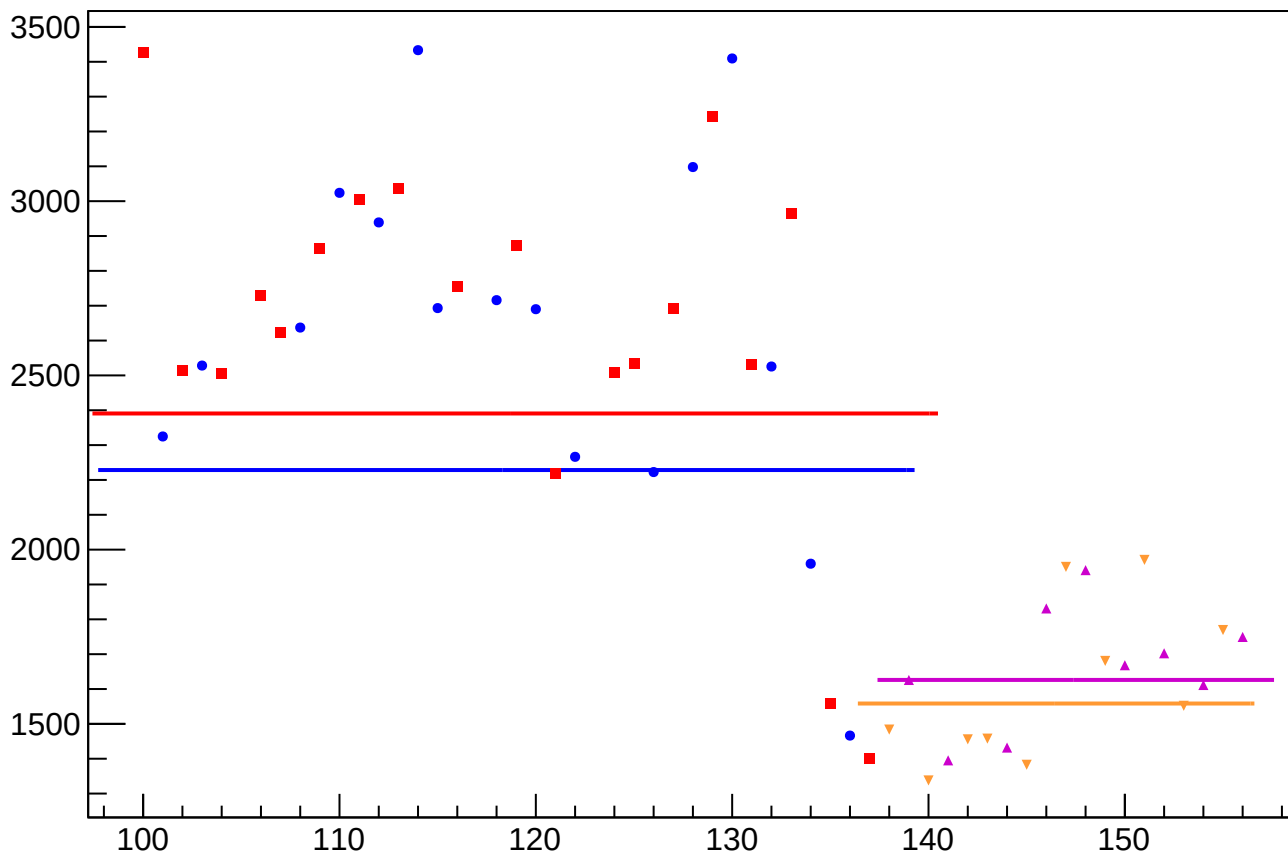
Right: -758.506 ± 622.089 χ^2/NDF : 34.3/34

In: -837.671 ± 483.621 χ^2/NDF : 31.6/24

Out: -742.951 ± 477.572 χ^2/NDF : 37.0/28

All: -789.715 ± 339.813 χ^2/NDF : 68.6/53

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: 1558.387 $\pm$ 0.398 χ^2 /NDF: 259090.0/9

Right Out: 2390.731 $\pm$ 0.638 χ^2 /NDF: 790004.4/18

Left In: 1626.120 $\pm$ 0.414 χ^2 /NDF: 160375.0/8

Left: 1590.944 $\pm$ 0.287 χ^2 /NDF: 433381.7/18

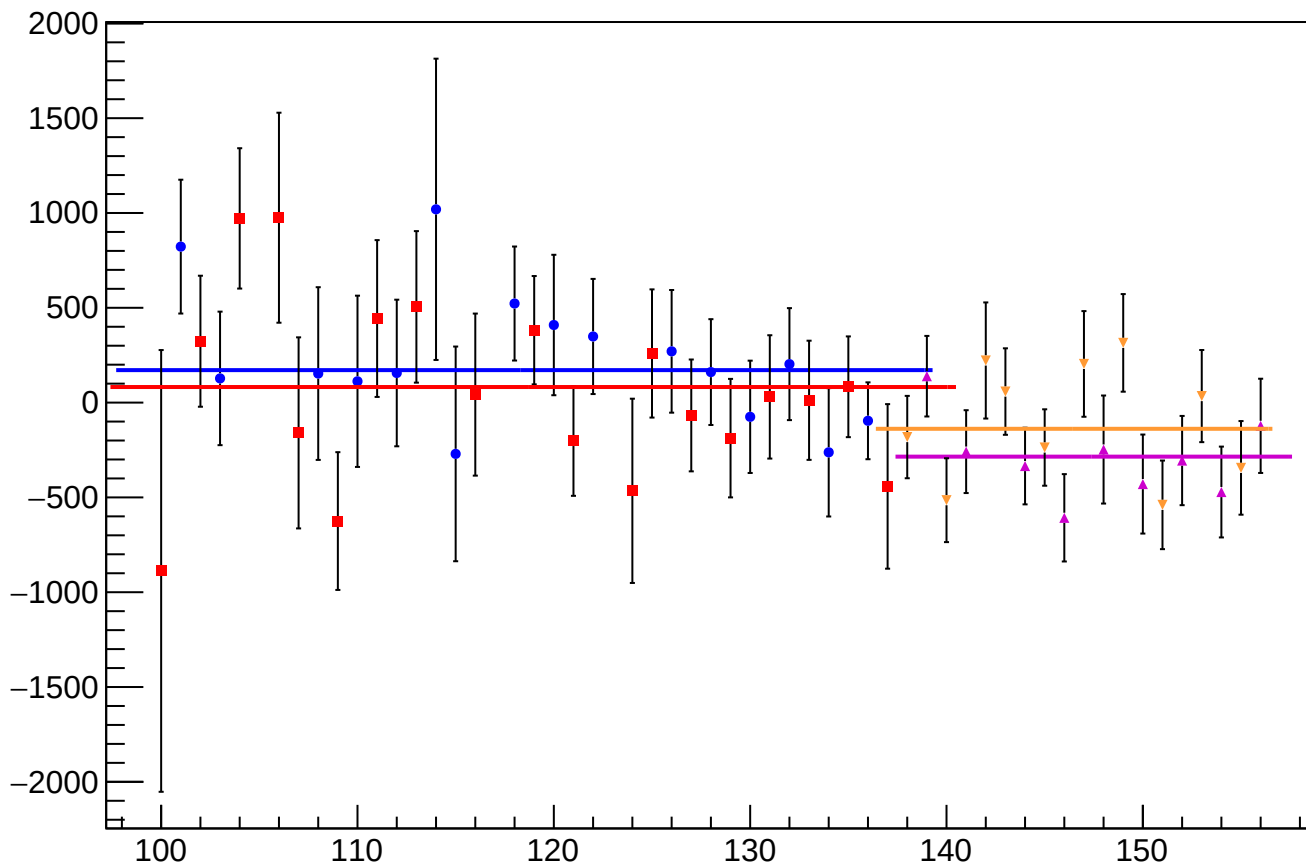
Right: 2305.630 $\pm$ 0.440 χ^2 /NDF: 1771614.3/34

In: 1816.999 $\pm$ 0.342 χ^2 /NDF: 1779586.7/24

Out: 1791.708 $\pm$ 0.338 χ^2 /NDF: 2274695.1/28

All: 1804.194 $\pm$ 0.240 χ^2 /NDF: 4057050.8/53

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: -138.184 $\pm$ 75.417 χ^2 /NDF:14.1/9

Right Out: 82.152 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -284.967 $\pm$ 77.829 χ^2 /NDF:7.4/8

Left: -209.265 $\pm$ 54.161 χ^2 /NDF: 23.3/18

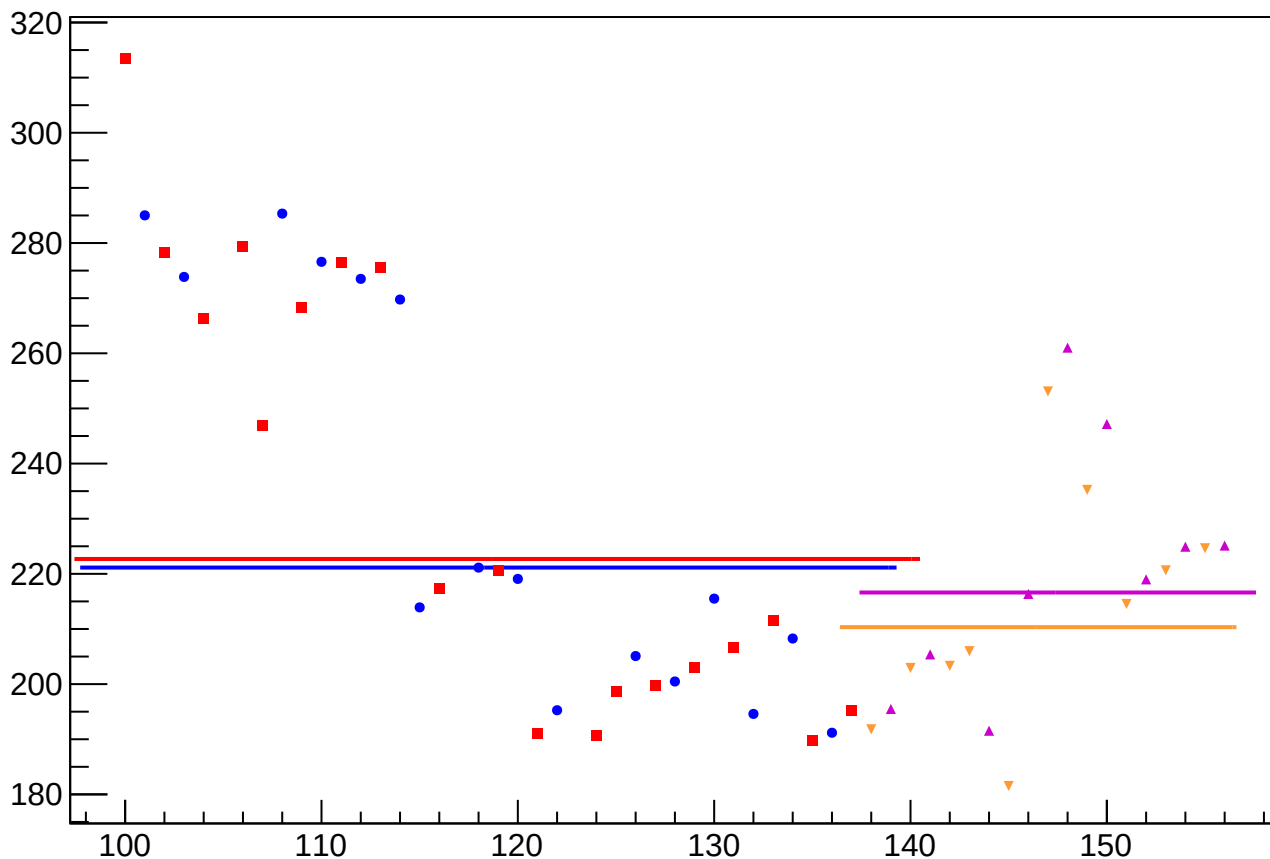
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: -71.823 $\pm$ 56.811 χ^2 /NDF:34.9/24

Out: -37.939 $\pm$ 55.678 χ^2 /NDF:39.6/28

All: -54.540 $\pm$ 39.765 χ^2 /NDF: 74.7/53

dit_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 221.139 $\pm$ 0.059 χ^2 /NDF: 318702.0/15

Left Out: 210.333 $\pm$ 0.053 χ^2 /NDF:136223.4/9

Right Out: 222.697 $\pm$ 0.058 χ^2 /NDF: 327032.3/18

Left In: 216.616 $\pm$ 0.055 χ^2 /NDF:136760.3/8

Left: 213.375 $\pm$ 0.038 χ^2 /NDF: 279706.1/18

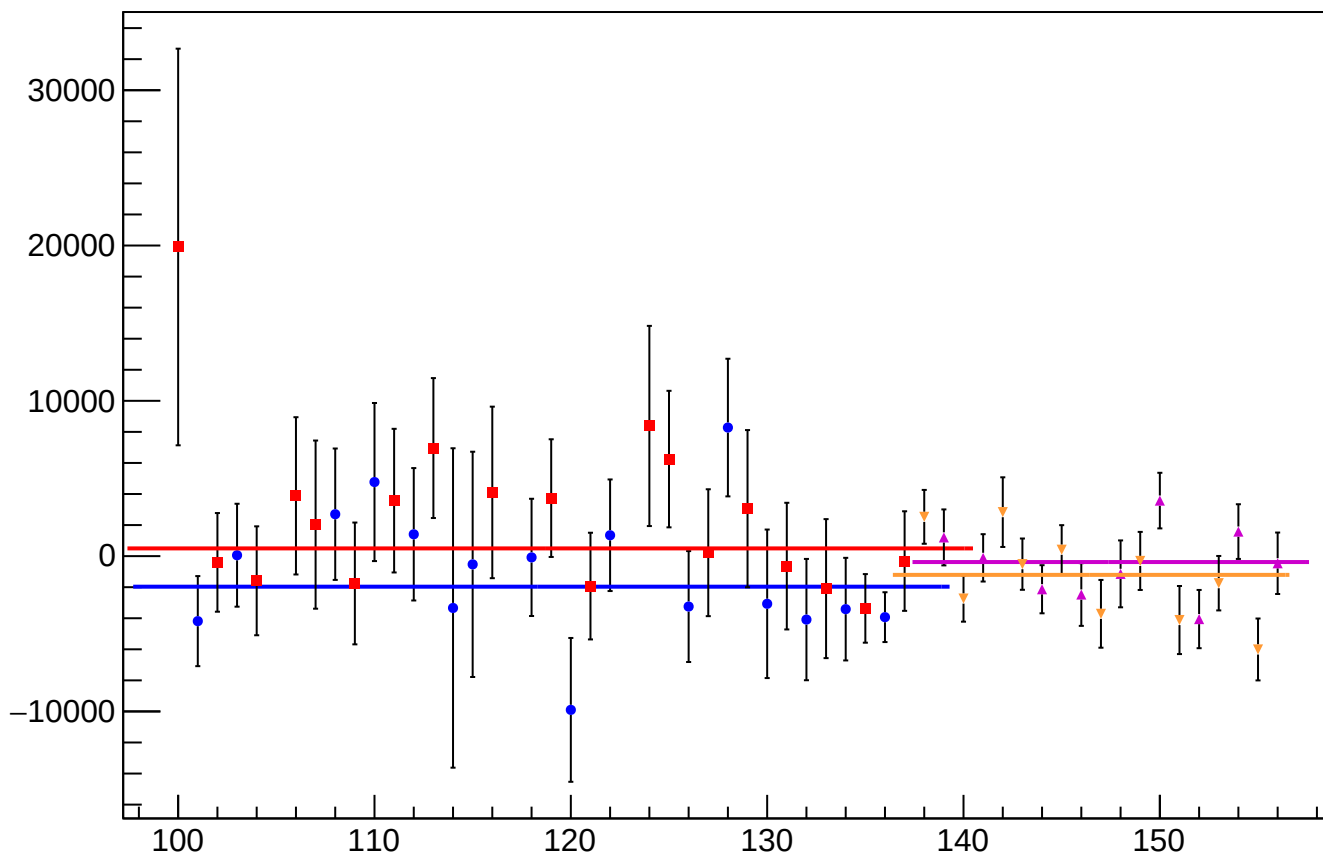
Right: 221.924 $\pm$ 0.041 χ^2 /NDF: 646088.3/34

In: 218.729 $\pm$ 0.040 χ^2 /NDF:458618.2/24

Out: 215.958 $\pm$ 0.039 χ^2 /NDF:487714.1/28

All: 217.316 $\pm$ 0.028 χ^2 /NDF: 948759.0/53

asym_sam_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -1967.414 $\pm$ 876.610 χ^2 /NDF: 16.2/15

Left Out: -1207.124 $\pm$ 574.415 χ^2 /NDF:19.4/9

Right Out: 497.281 $\pm$ 914.759 χ^2 /NDF: 14.8/18

Left In: -381.008 $\pm$ 598.664 χ^2 /NDF:13.2/8

Left: -811.136 $\pm$ 414.480 χ^2 /NDF: 33.6/18

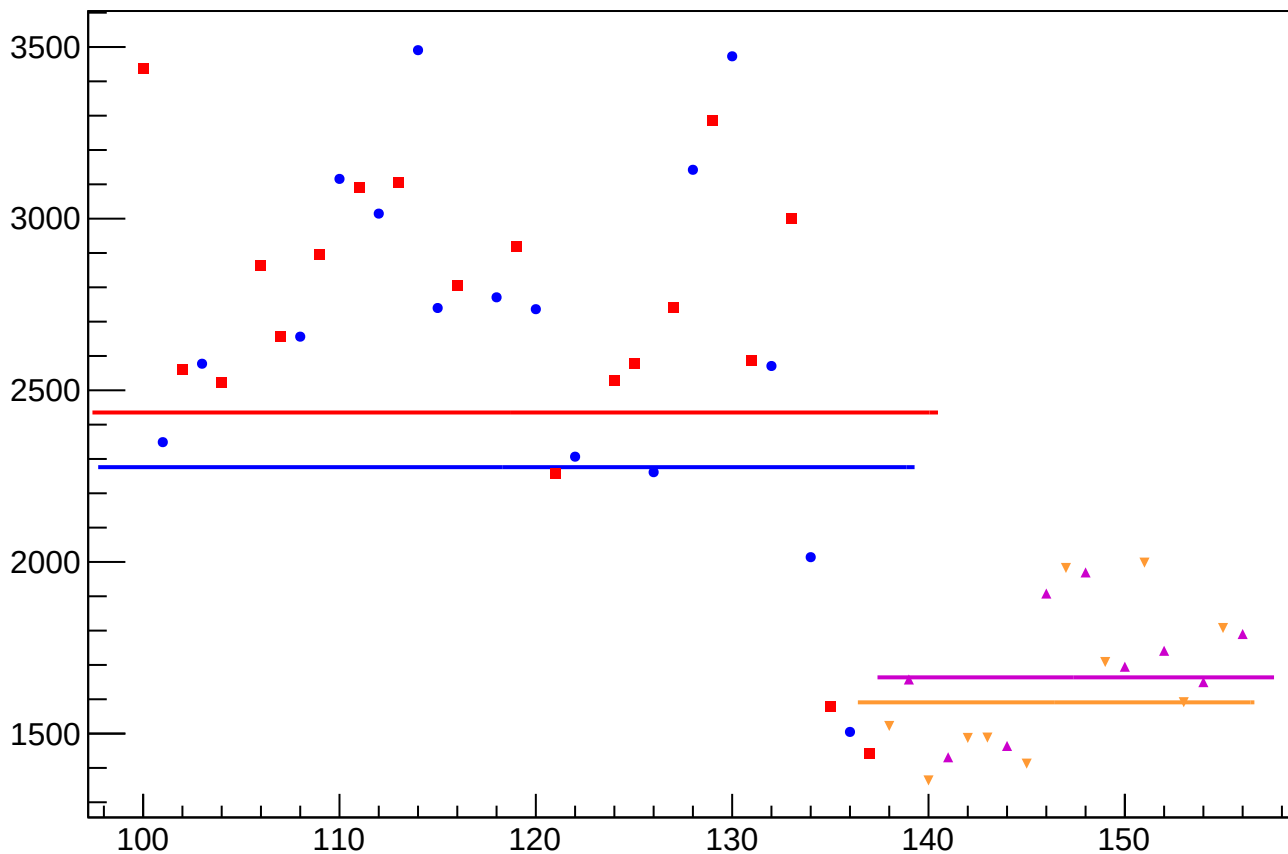
Right: -787.531 $\pm$ 632.914 χ^2 /NDF: 34.7/34

In: -885.573 $\pm$ 494.376 χ^2 /NDF:31.6/24

Out: -725.119 $\pm$ 486.458 χ^2 /NDF:36.6/28

All: -804.051 $\pm$ 346.744 χ^2 /NDF: 68.3/53

asym_sam_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2276.134+/-0.620 χ^2/NDF : 926982.8/15

Left Out: 1591.027+/-0.406 χ^2/NDF : 252199.9/9

Right Out: 2435.354+/-0.647 χ^2/NDF : 791515.5/18

Left In: 1663.827+/-0.423 χ^2/NDF : 161731.3/8

Left: 1625.923+/-0.293 χ^2/NDF : 429329.6/18

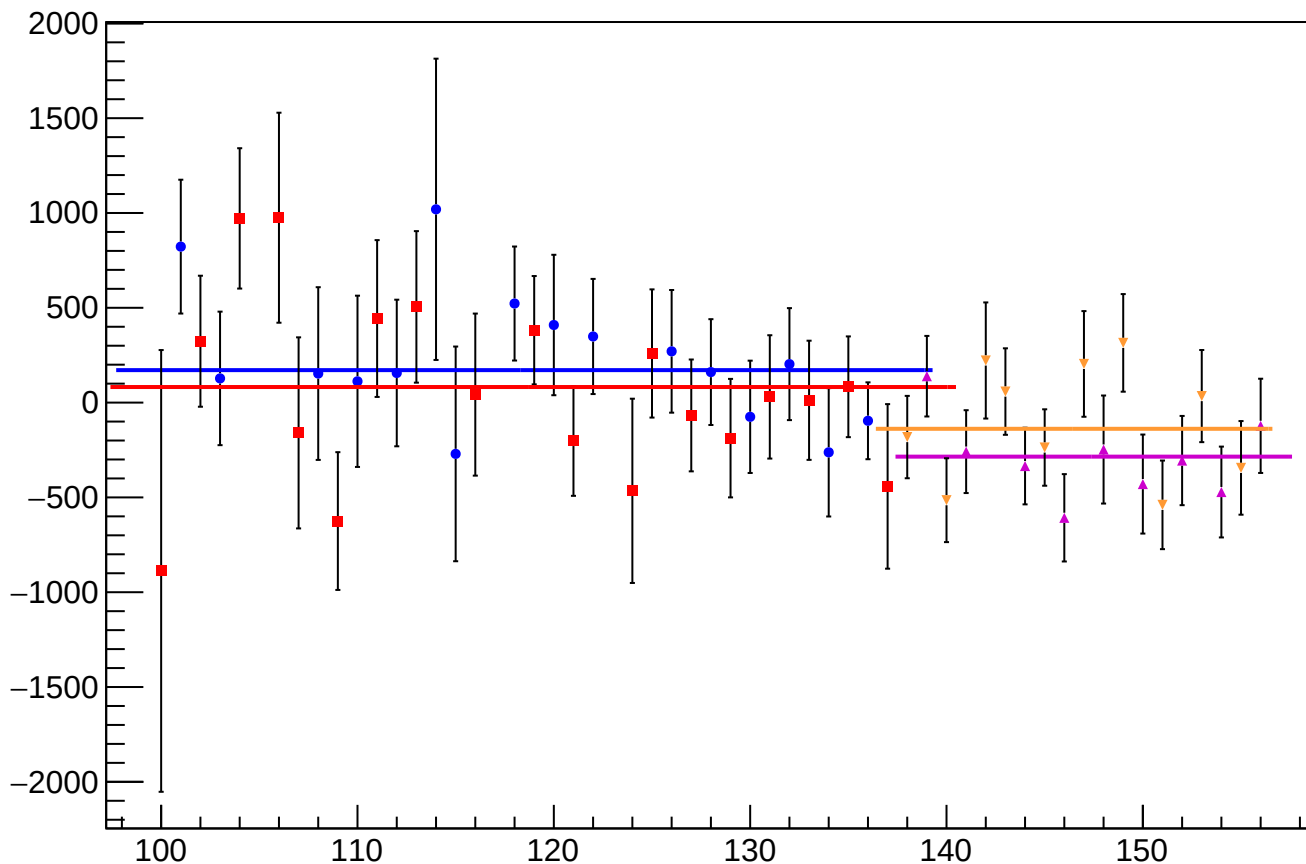
Right: 2352.355+/-0.448 χ^2/NDF : 1750083.9/34

In: 1858.575+/-0.350 χ^2/NDF : 1754149.0/24

Out: 1829.802+/-0.344 χ^2/NDF : 2265736.9/28

All: 1843.956+/-0.245 χ^2/NDF : 4023327.7/53

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: -138.188 $\pm$ 75.417 χ^2 /NDF:14.1/9

Right Out: 82.150 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -284.968 $\pm$ 77.829 χ^2 /NDF:7.4/8

Left: -209.267 $\pm$ 54.161 χ^2 /NDF: 23.3/18

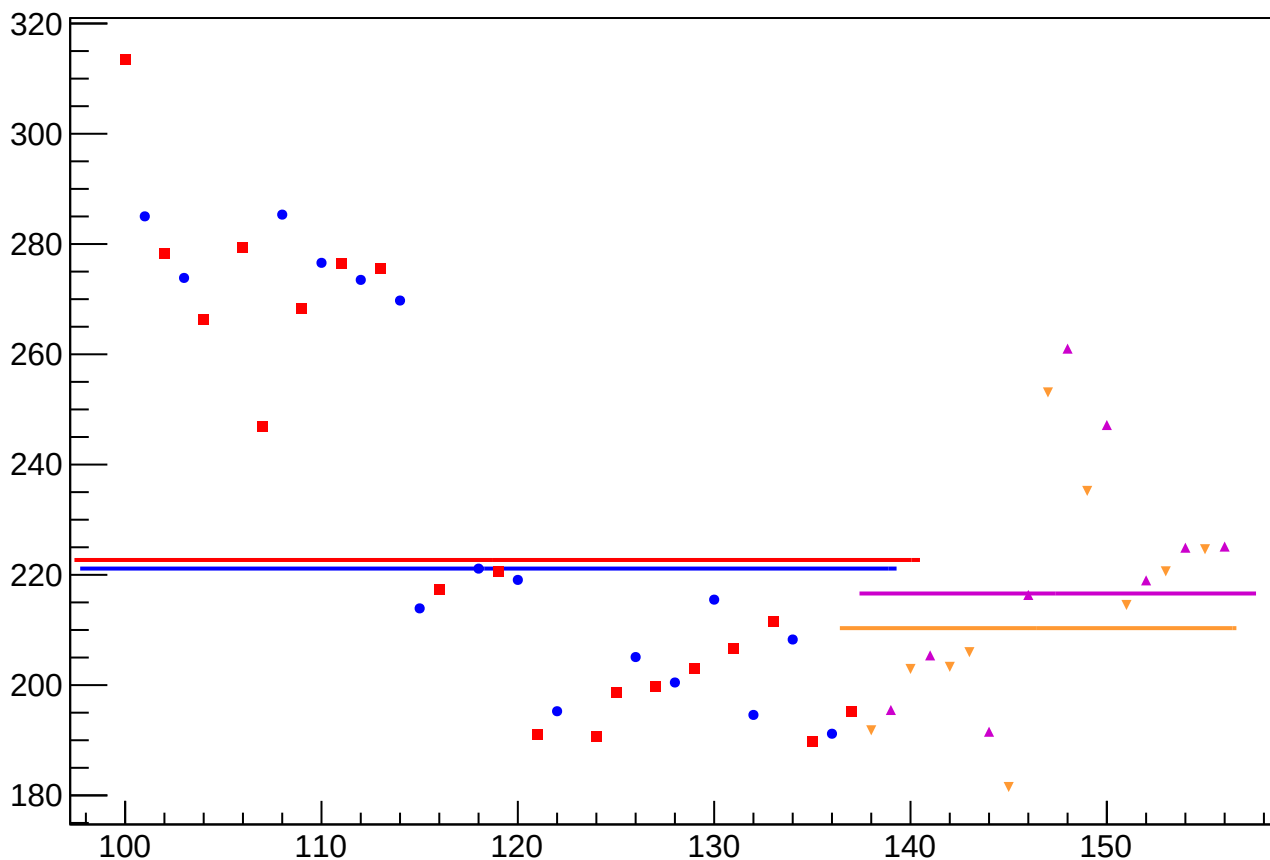
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: -71.822 $\pm$ 56.811 χ^2 /NDF:34.9/24

Out: -37.941 $\pm$ 55.678 χ^2 /NDF:39.6/28

All: -54.540 $\pm$ 39.765 χ^2 /NDF: 74.7/53

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: 210.333+/-0.053 χ^2/NDF :136227.2/9

Right Out: 222.696+/-0.058 χ^2/NDF : 327025.2/18

Left In: 216.616+/-0.055 χ^2/NDF :136762.5/8

Left: 213.375+/-0.038 χ^2/NDF : 279712.1/18

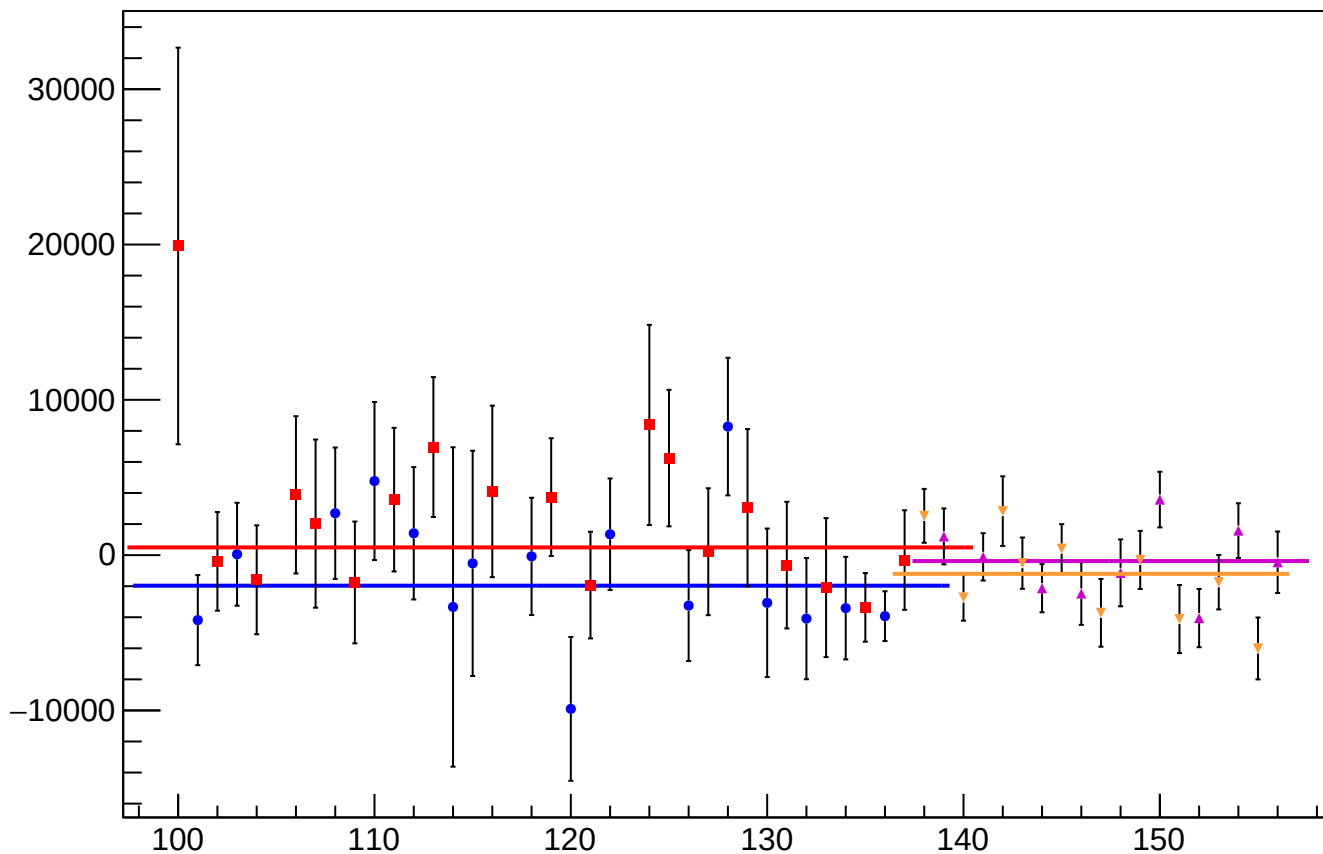
Right: 221.923+/-0.041 χ^2/NDF : 646076.2/34

In: 218.728+/-0.040 χ^2/NDF :458613.8/24

Out: 215.958+/-0.039 χ^2/NDF :487707.9/28

All: 217.315+/-0.028 χ^2/NDF : 948748.1/53

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: -1207.124 $\pm$ 574.414 χ^2 /NDF:19.4/9

Right Out: 497.282 $\pm$ 914.757 χ^2 /NDF: 14.8/18

Left In: -381.007 $\pm$ 598.664 χ^2 /NDF:13.2/8

Left: -811.136 $\pm$ 414.480 χ^2 /NDF: 33.6/18

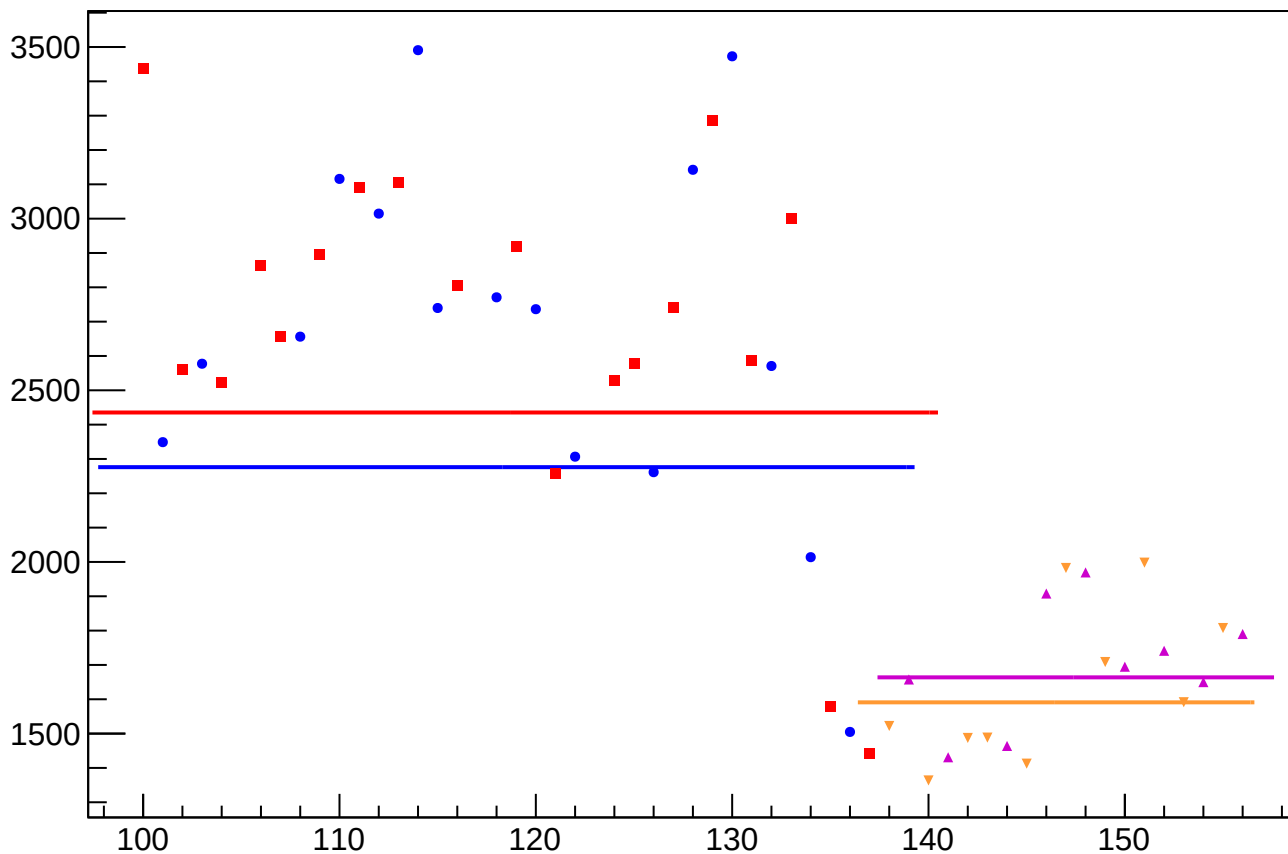
Right: -787.528 $\pm$ 632.913 χ^2 /NDF: 34.7/34

In: -885.572 $\pm$ 494.376 χ^2 /NDF:31.6/24

Out: -725.118 $\pm$ 486.458 χ^2 /NDF:36.6/28

All: -804.050 $\pm$ 346.743 χ^2 /NDF: 68.3/53

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: 1591.027 $\pm$ 0.406 χ^2 /NDF: 252202.1/9

Right Out: 2435.351 $\pm$ 0.647 χ^2 /NDF: 791509.5/18

Left In: 1663.827 $\pm$ 0.423 χ^2 /NDF: 161731.6/8

Left: 1625.922 $\pm$ 0.293 χ^2 /NDF: 429332.5/18

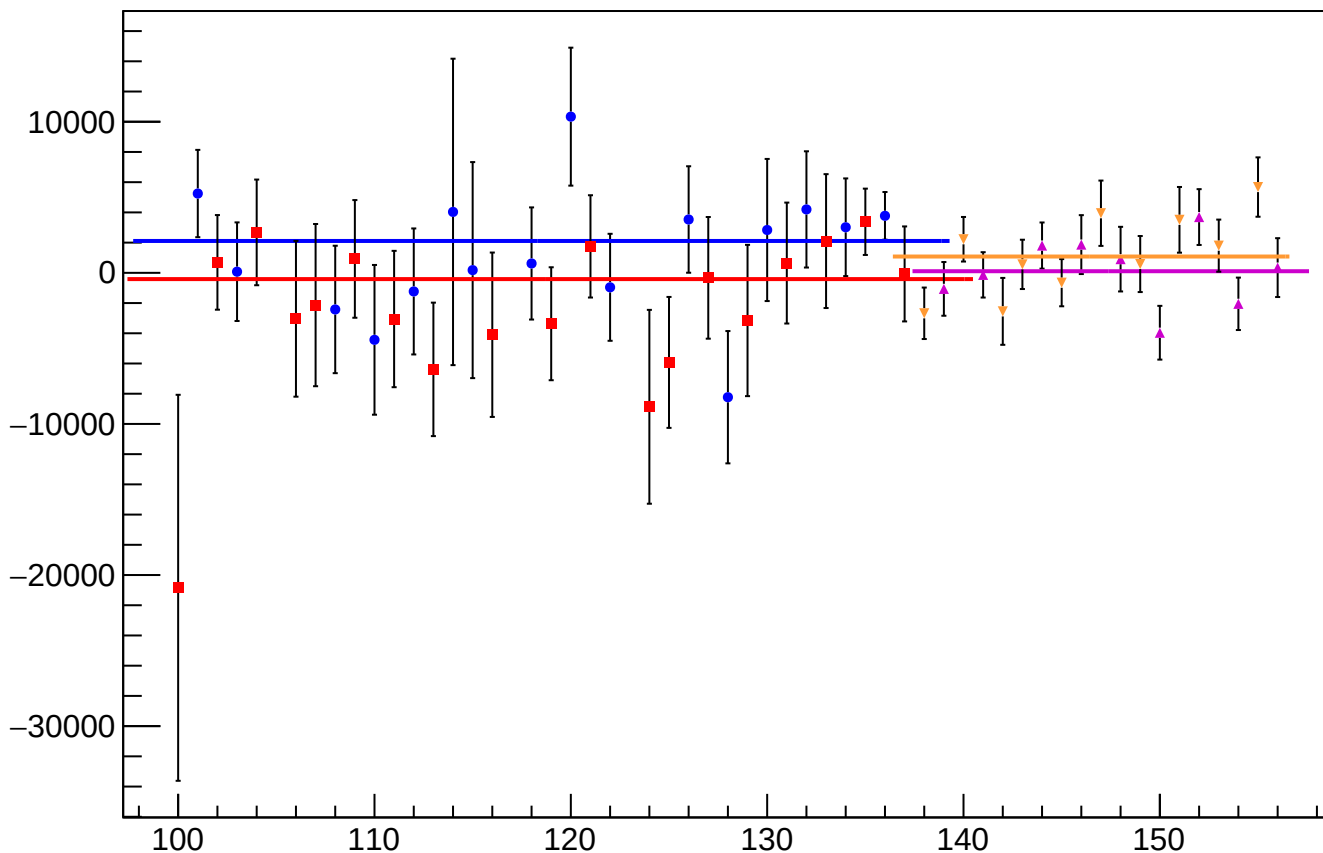
Right: 2352.352 $\pm$ 0.448 χ^2 /NDF: 1750068.0/34

In: 1858.574 $\pm$ 0.350 χ^2 /NDF: 1754135.0/24

Out: 1829.801 $\pm$ 0.344 χ^2 /NDF: 2265728.0/28

All: 1843.956 $\pm$ 0.245 χ^2 /NDF: 4023304.9/53

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2109.537 $\pm$ 863.291 χ^2 /NDF: 16.6/15

Left Out: 1079.660 $\pm$ 567.430 χ^2 /NDF:18.2/9

Right Out: -414.095 $\pm$ 904.414 χ^2 /NDF: 14.7/18

Left In: 107.102 $\pm$ 589.631 χ^2 /NDF:13.2/8

Left: 612.036 $\pm$ 408.857 χ^2 /NDF: 32.8/18

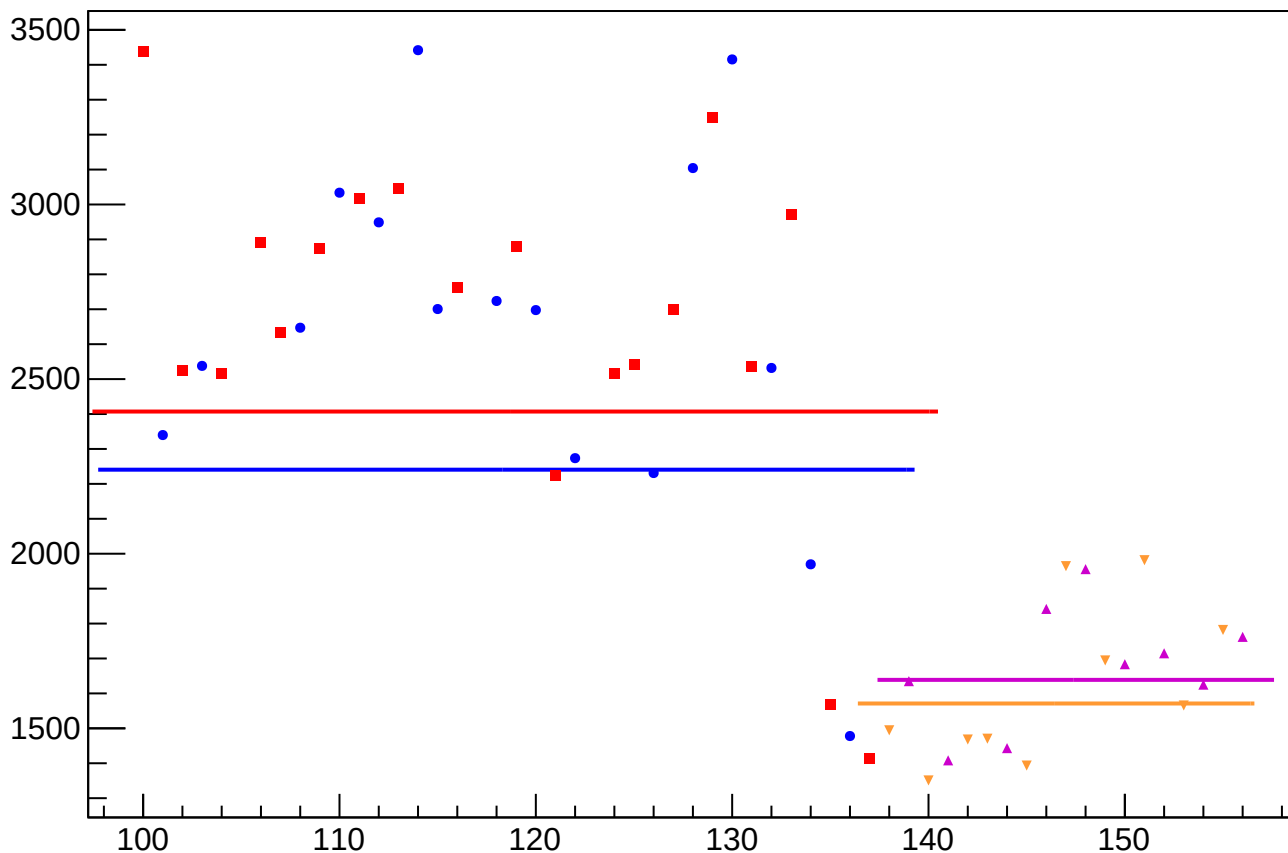
Right: 906.398 $\pm$ 624.471 χ^2 /NDF: 35.4/34

In: 744.081 $\pm$ 486.901 χ^2 /NDF:33.5/24

Out: 657.749 $\pm$ 480.660 χ^2 /NDF:34.8/28

All: 700.358 $\pm$ 342.063 χ^2 /NDF: 68.4/53

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2240.626+/-0.610 χ^2/NDF : 933590.8/15

Left Out: 1571.111+/-0.401 χ^2/NDF : 255841.7/9

Right Out: 2407.124+/-0.640 χ^2/NDF : 788976.1/18

Left In: 1638.781+/-0.417 χ^2/NDF : 158411.0/8

Left: 1603.648+/-0.289 χ^2/NDF : 427929.5/18

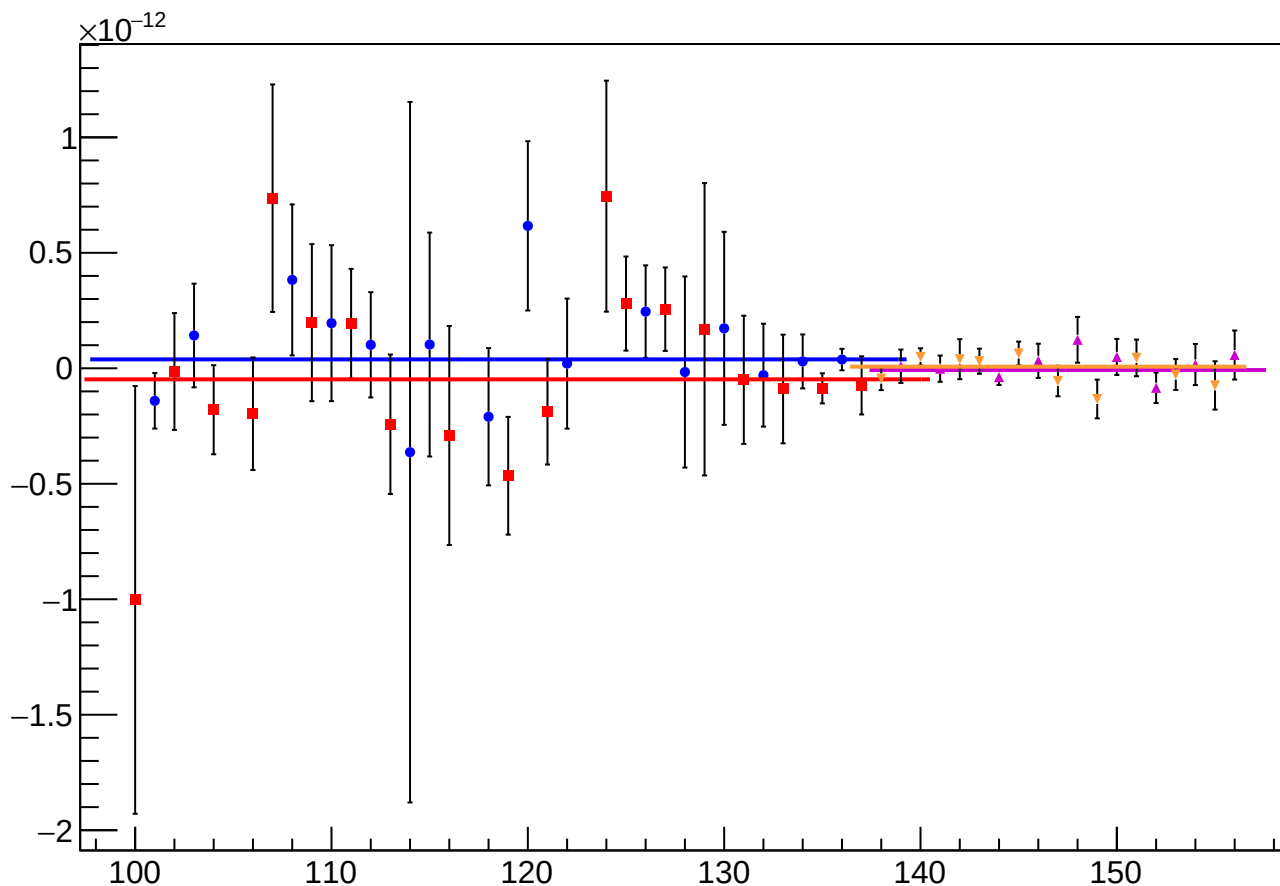
Right: 2320.004+/-0.442 χ^2/NDF : 1758033.9/34

In: 1830.229+/-0.344 χ^2/NDF : 1754835.0/24

Out: 1807.243+/-0.340 χ^2/NDF : 2271053.9/28

All: 1818.588+/-0.242 χ^2/NDF : 4028146.4/53

asym_sam_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 8.7/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.2/8

Left: 0.000+/-0.000 χ^2/NDF : 14.1/18

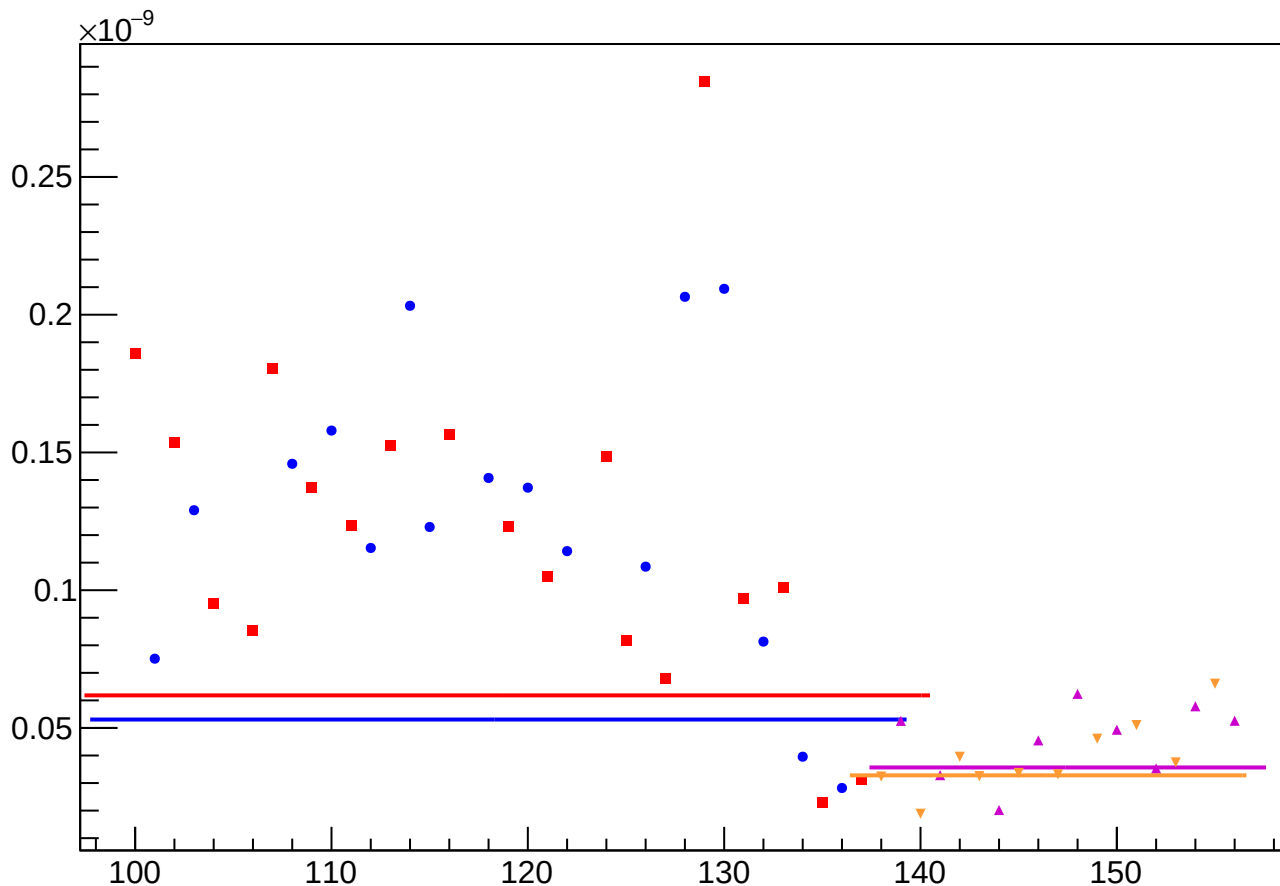
Right: 0.000+/-0.000 χ^2/NDF : 29.0/34

In: 0.000+/-0.000 χ^2/NDF : 14.8/24

Out: -0.000+/-0.000 χ^2/NDF : 28.2/28

All: 0.000+/-0.000 χ^2/NDF : 43.1/53

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 : 658098.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2416437.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 944254.9/8

Left: 0.000+/-0.000 χ^2/NDF : 1622874.3/18

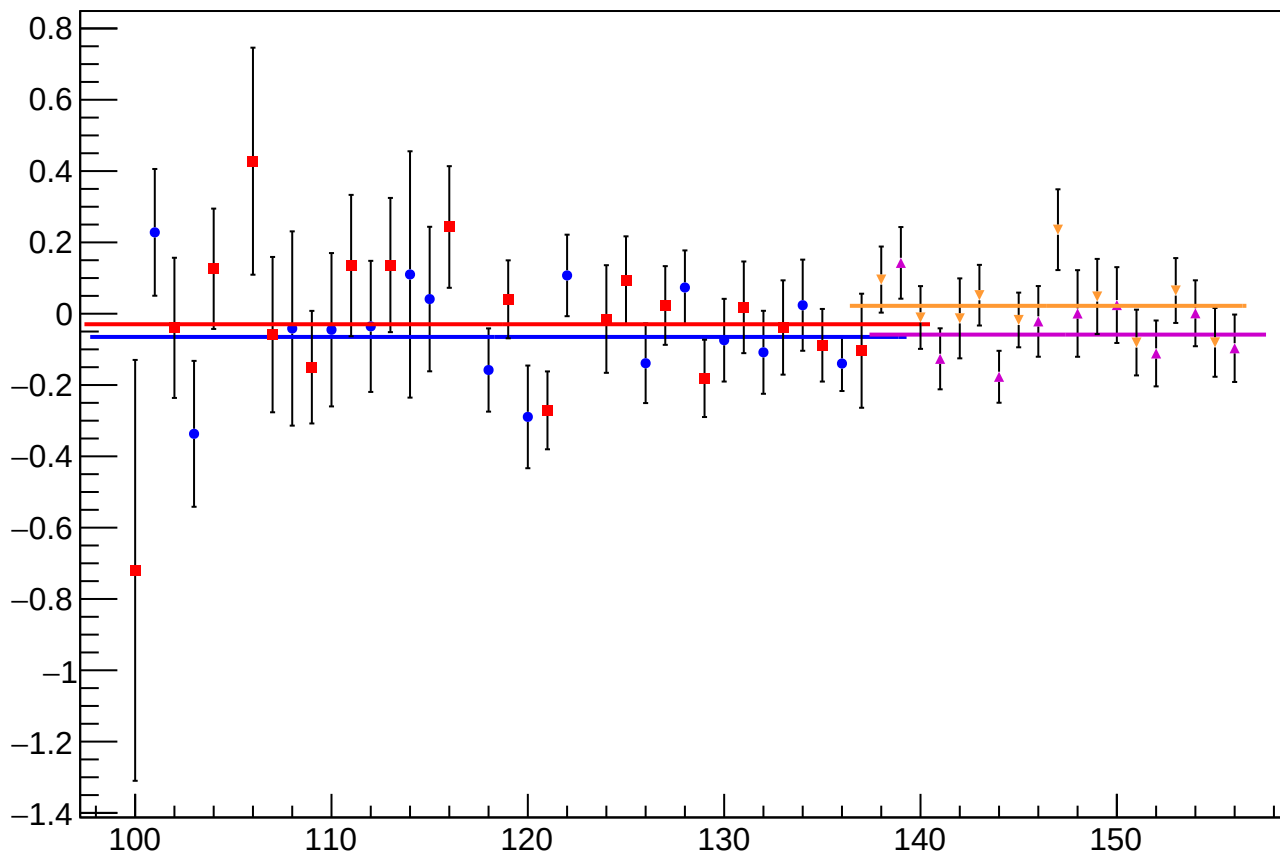
Right: 0.000+/-0.000 χ^2/NDF : 5040906.1/34

In: 0.000+/-0.000 χ^2/NDF : 3863714.1/24

Out: 0.000+/-0.000 χ^2/NDF : 3828331.0/28

All: 0.000+/-0.000 χ^2/NDF : 7713635.3/53

asym_sam_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.022 ± 0.030 $\chi^2/\text{NDF}: 7.5/9$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.059 ± 0.031 $\chi^2/\text{NDF}: 9.2/8$

Left: -0.016 ± 0.021 $\chi^2/\text{NDF}: 20.2/18$

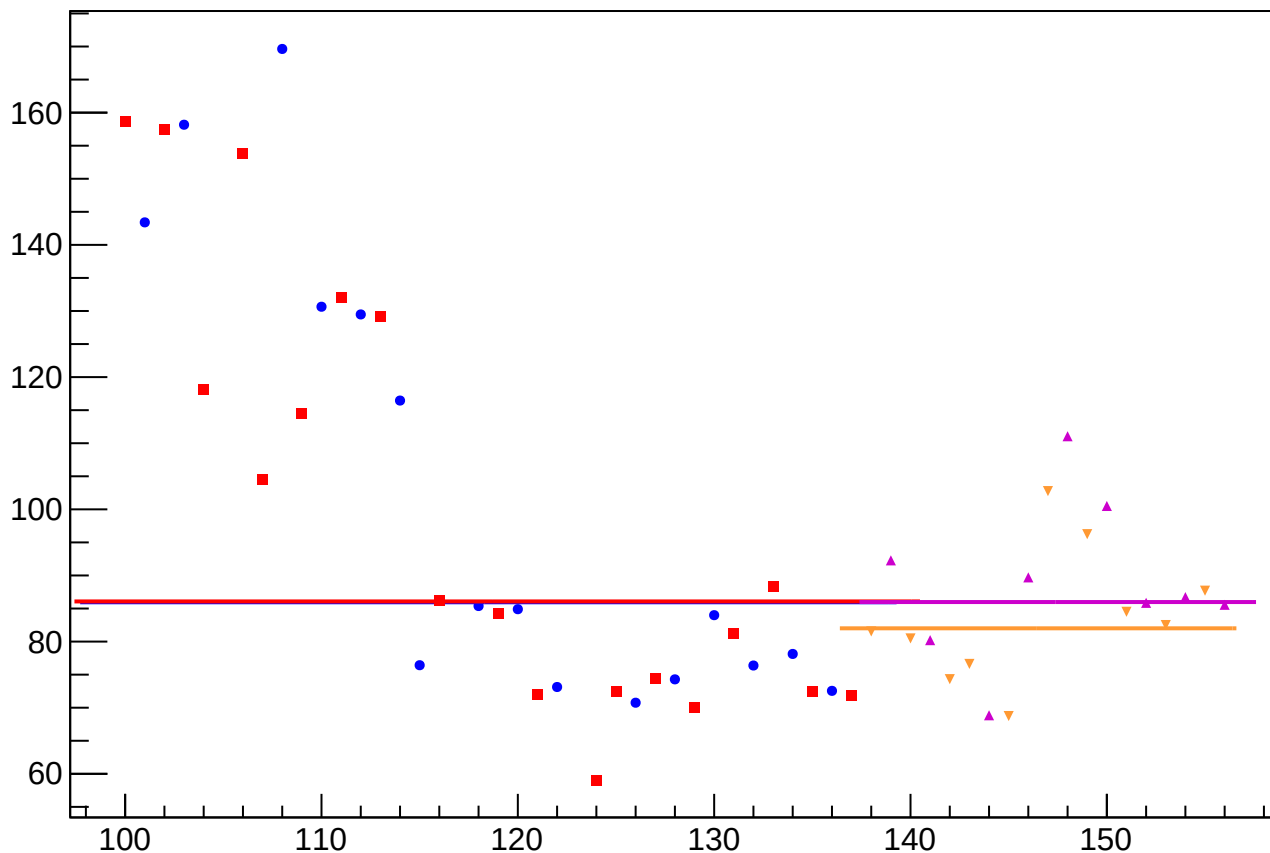
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.062 ± 0.023 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.001 ± 0.022 $\chi^2/\text{NDF}: 26.9/28$

All: -0.030 ± 0.016 $\chi^2/\text{NDF}: 54.0/53$

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: 82.007 $\pm$ 0.021 χ^2 /NDF:190048.9/9

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 85.980 $\pm$ 0.022 χ^2 /NDF:253210.0/8

Left: 83.885 $\pm$ 0.015 χ^2 /NDF: 460385.4/18

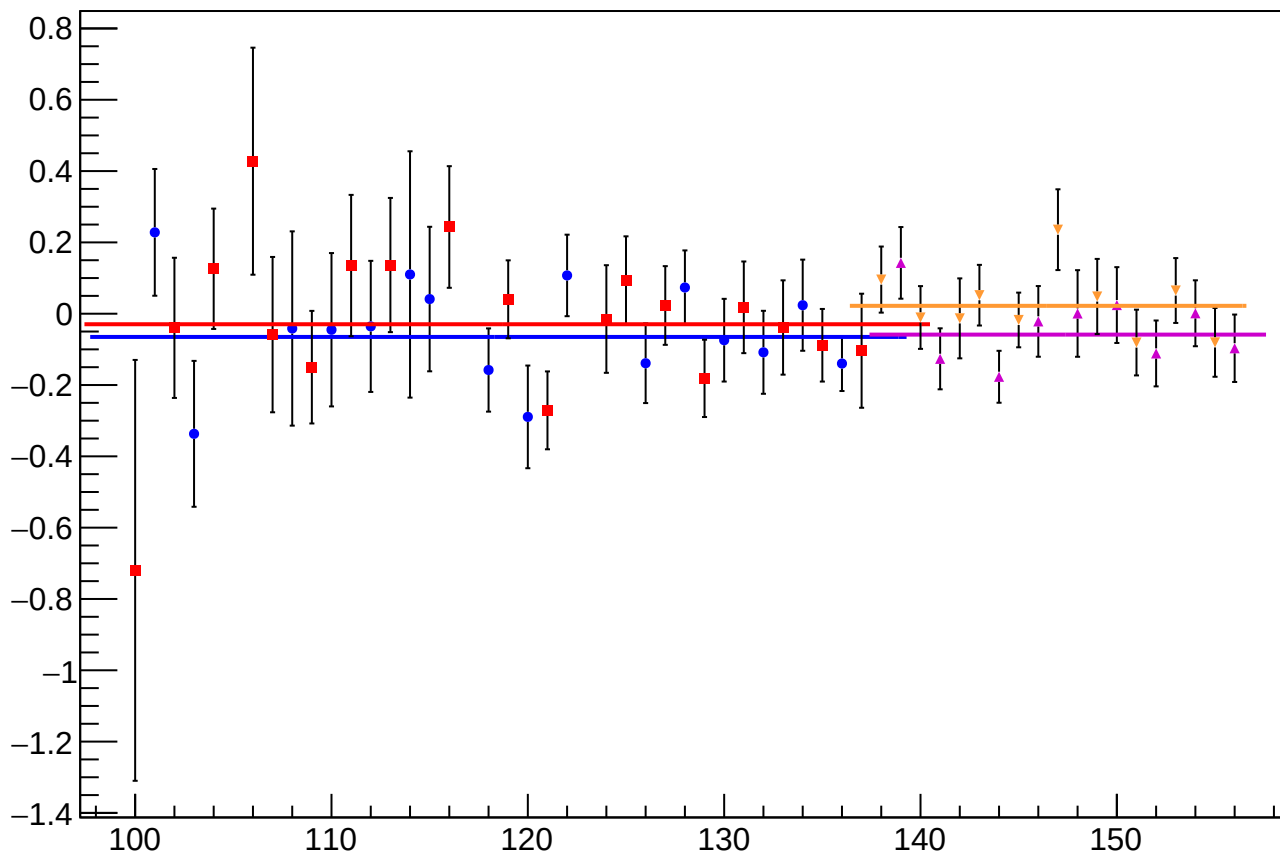
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 85.964 $\pm$ 0.016 χ^2 /NDF:1288215.7/24

Out: 83.817 $\pm$ 0.016 χ^2 /NDF:1198306.2/28

All: 84.853 $\pm$ 0.011 χ^2 /NDF: 2495728.6/53

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.022 ± 0.030 $\chi^2/\text{NDF}: 7.5/9$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.059 ± 0.031 $\chi^2/\text{NDF}: 9.2/8$

Left: -0.016 ± 0.021 $\chi^2/\text{NDF}: 20.2/18$

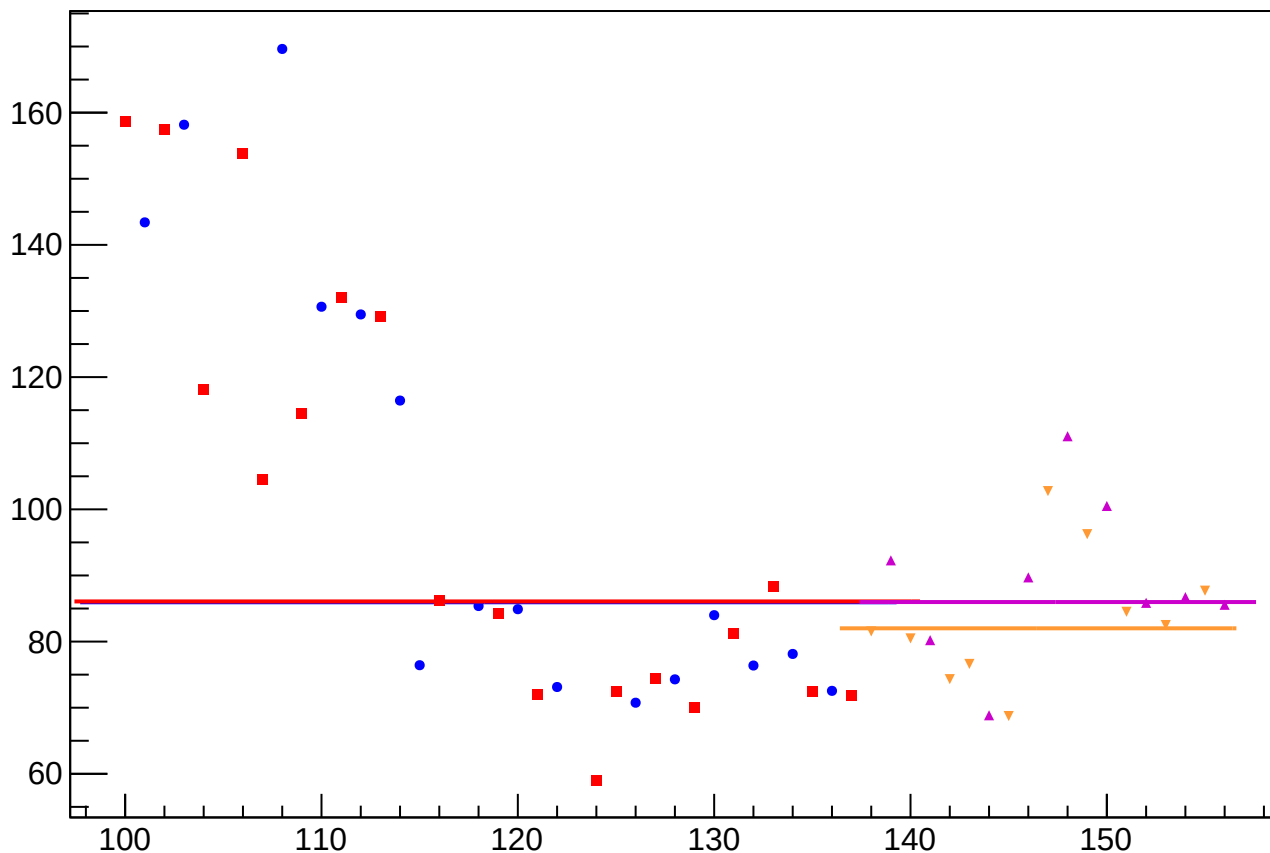
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.062 ± 0.023 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.001 ± 0.022 $\chi^2/\text{NDF}: 26.9/28$

All: -0.030 ± 0.016 $\chi^2/\text{NDF}: 54.0/53$

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: 82.007 $\pm$ 0.021 χ^2 /NDF:190048.9/9

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 85.980 $\pm$ 0.022 χ^2 /NDF:253210.0/8

Left: 83.885 $\pm$ 0.015 χ^2 /NDF: 460385.4/18

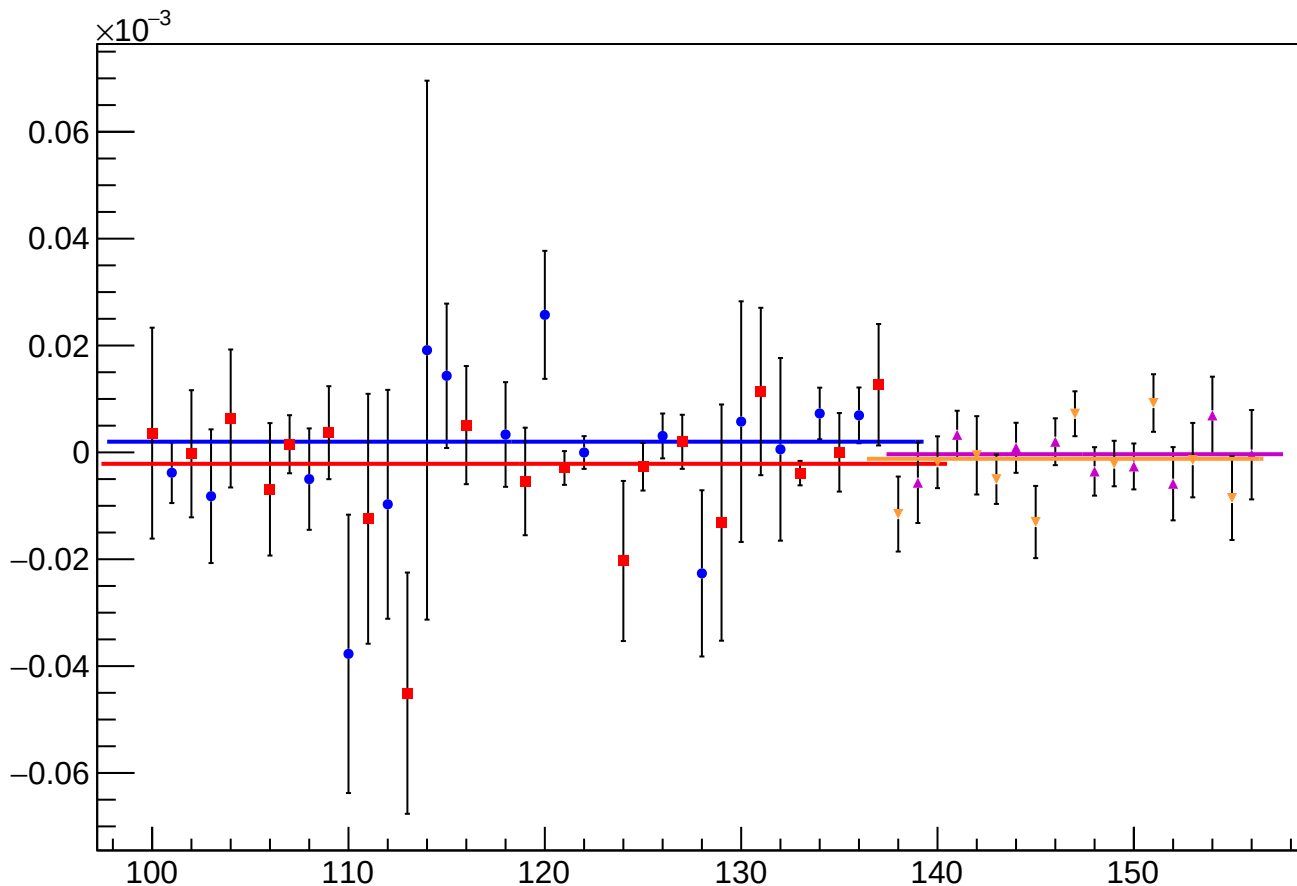
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 85.964 $\pm$ 0.016 χ^2 /NDF:1288215.7/24

Out: 83.817 $\pm$ 0.016 χ^2 /NDF:1198306.2/28

All: 84.853 $\pm$ 0.011 χ^2 /NDF: 2495728.6/53

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:14.6/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 11.5/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:3.9/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.7/18

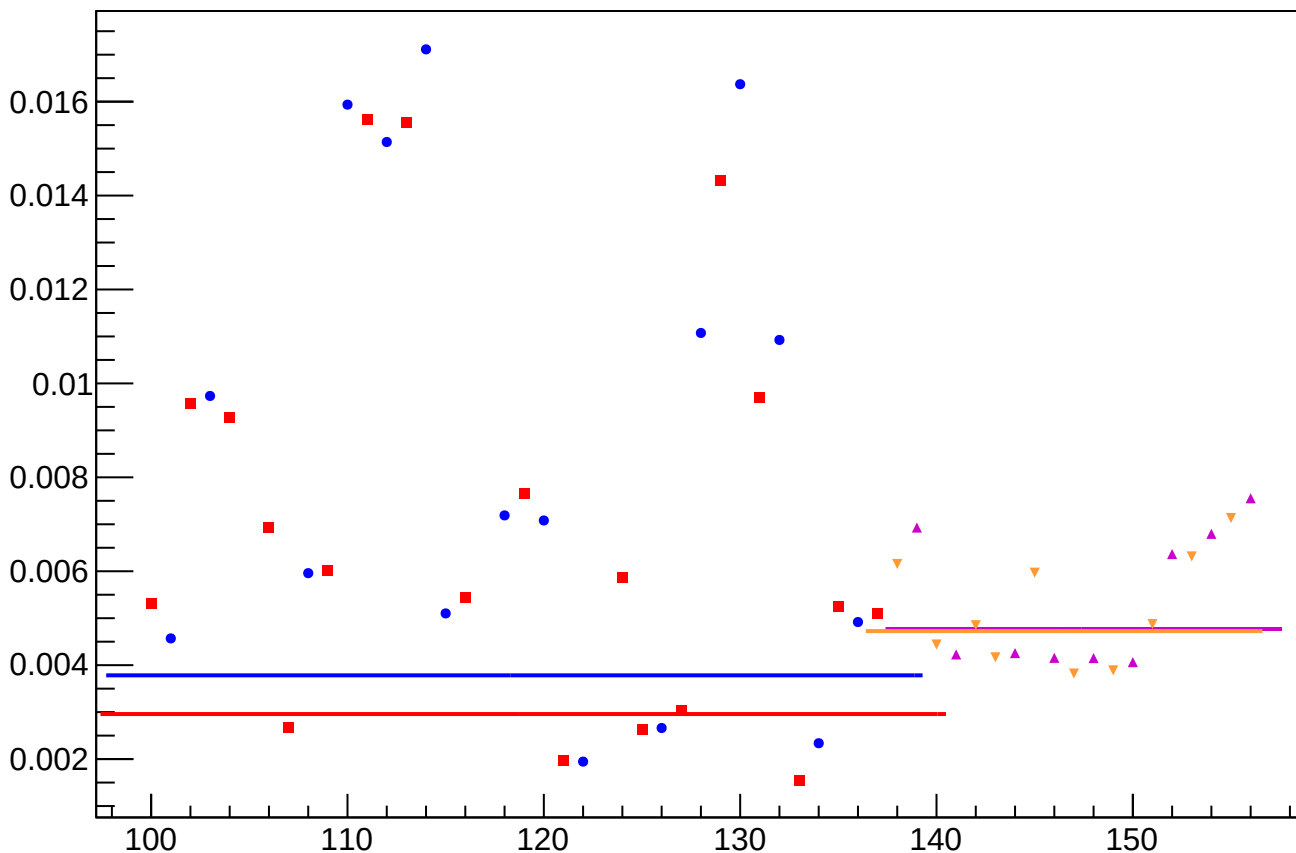
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.8/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:19.7/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:26.3/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 48.6/53

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 : 650796.3/9

Right Out: 0.003+/-0.000

χ^2/NDF : 5548113.4/18

Left In: 0.005+/-0.000

χ^2/NDF : 833496.7/8

Left: 0.005+/-0.000

χ^2/NDF : 1484962.9/18

Right: 0.003+/-0.000

χ^2/NDF : 10513157.6/34

In: 0.004+/-0.000

χ^2/NDF : 5844207.2/24

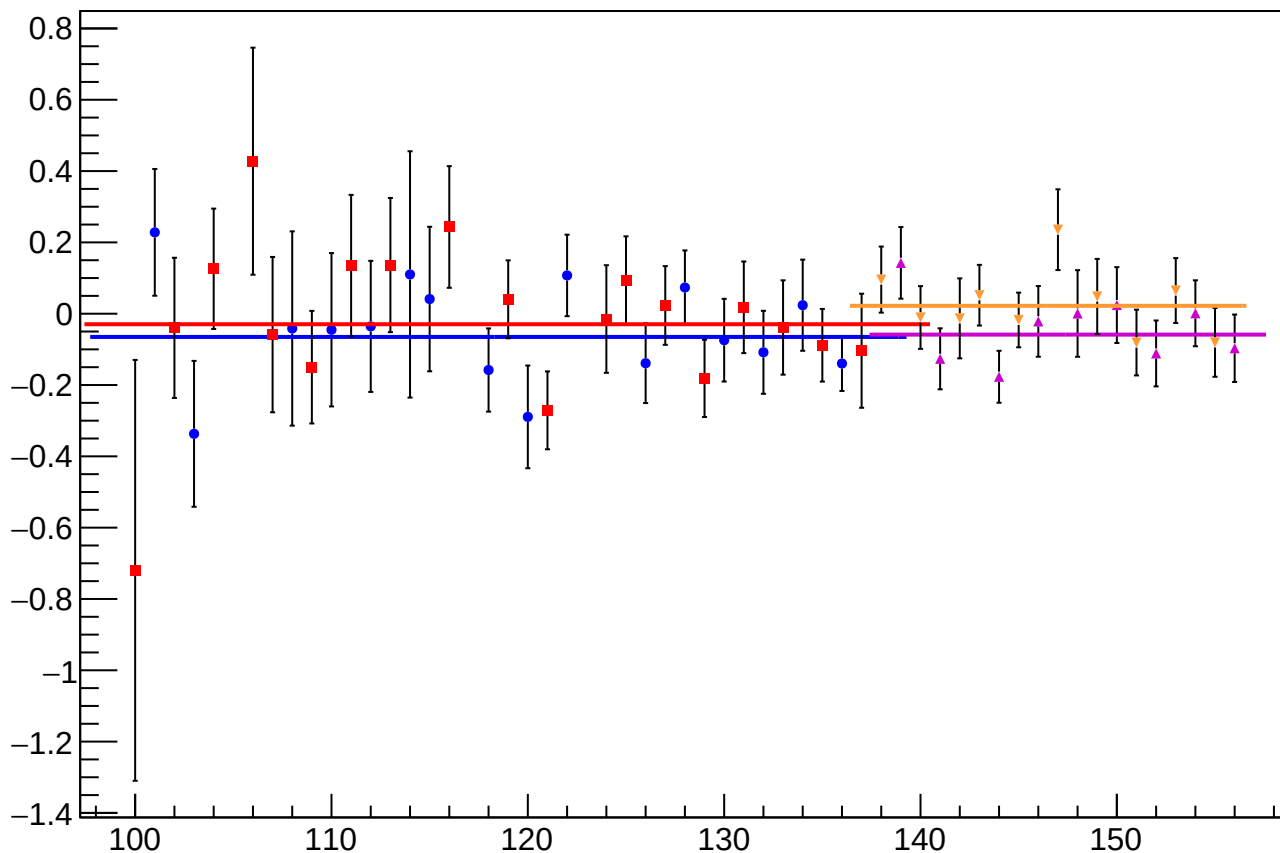
Out: 0.004+/-0.000

χ^2/NDF : 7454523.8/28

All: 0.004+/-0.000

χ^2/NDF : 13575400.5/53

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.022 ± 0.030 $\chi^2/\text{NDF}: 7.5/9$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.059 ± 0.031 $\chi^2/\text{NDF}: 9.2/8$

Left: -0.016 ± 0.021 $\chi^2/\text{NDF}: 20.2/18$

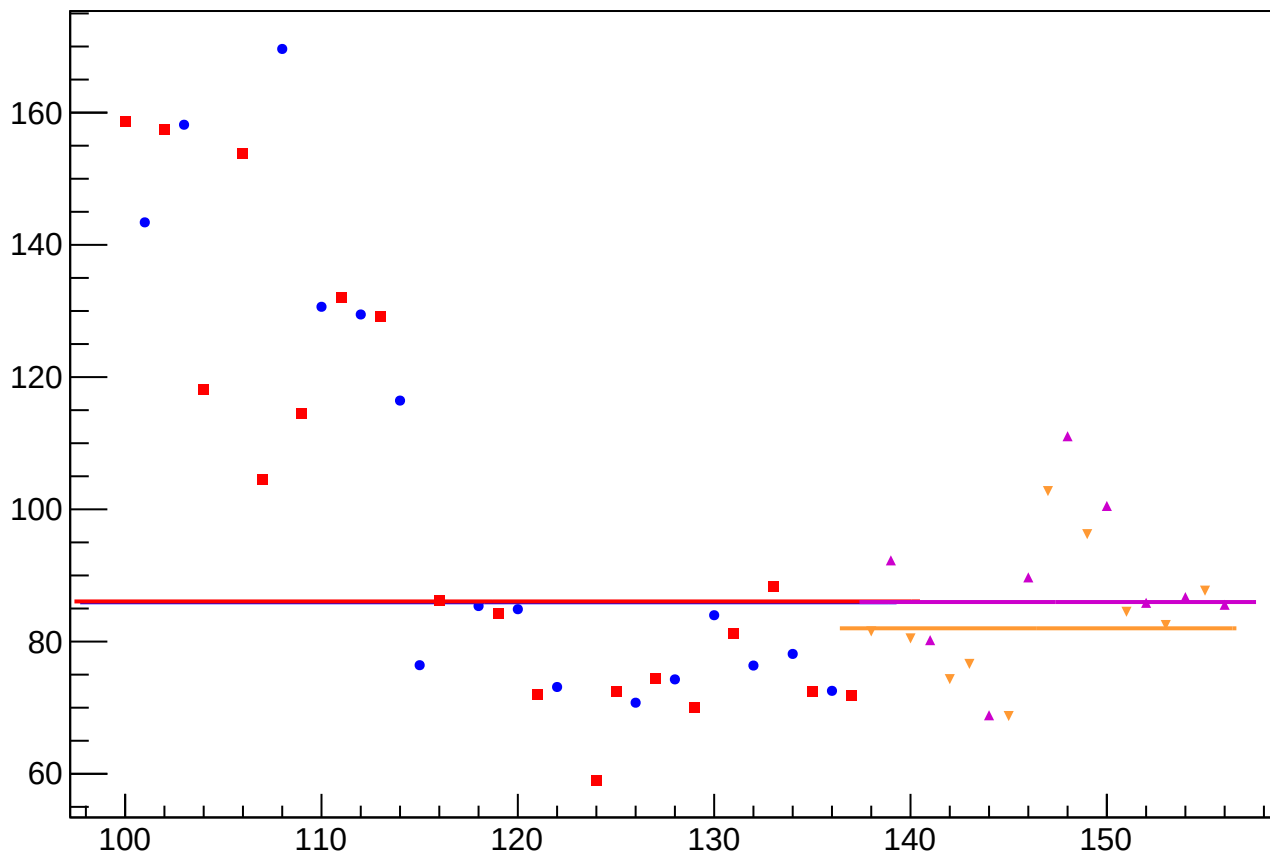
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.062 ± 0.023 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.001 ± 0.022 $\chi^2/\text{NDF}: 26.9/28$

All: -0.030 ± 0.016 $\chi^2/\text{NDF}: 54.0/53$

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: 82.006+/-0.021 χ^2/NDF :190075.8/9

Right Out: 86.070+/-0.023 χ^2/NDF : 991365.2/18

Left In: 85.980+/-0.022 χ^2/NDF :253212.9/8

Left: 83.885+/-0.015 χ^2/NDF : 460417.5/18

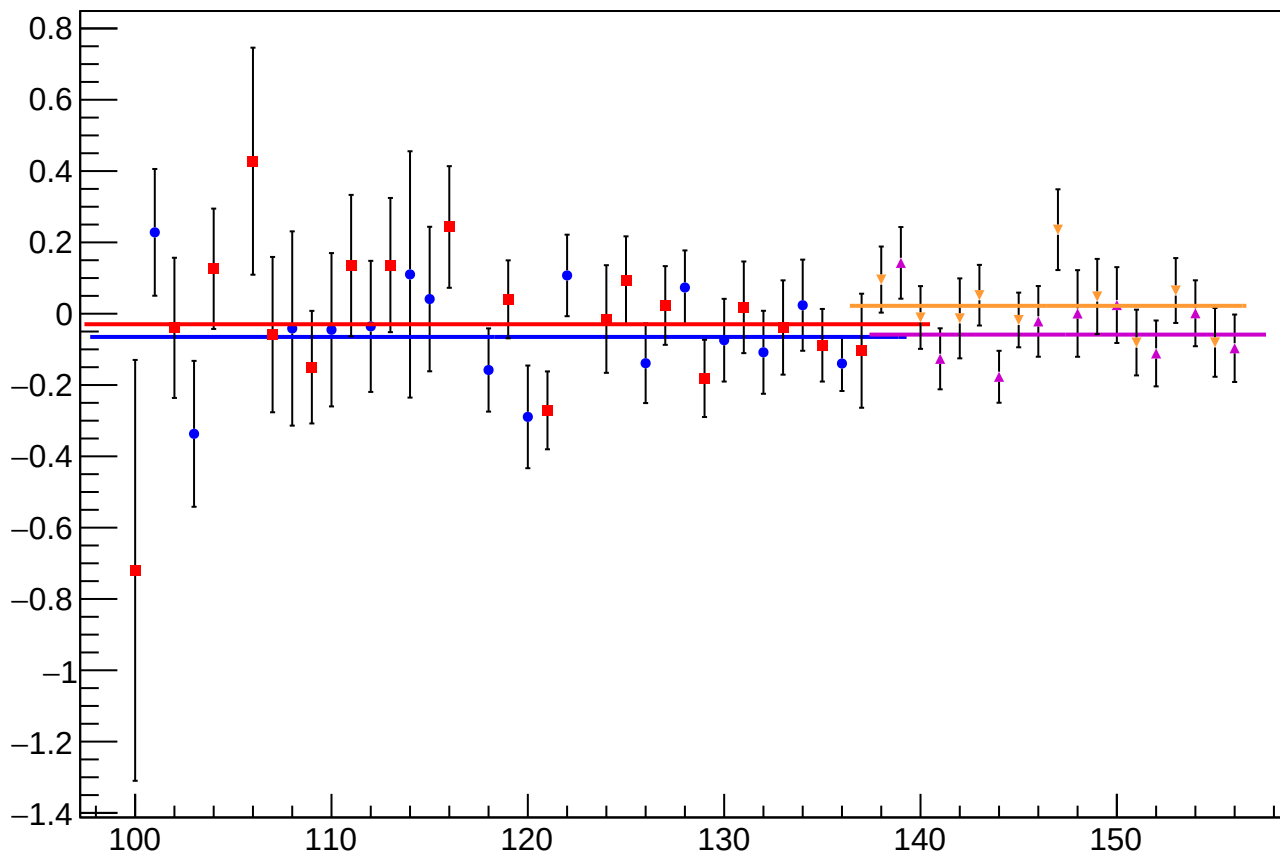
Right: 86.007+/-0.017 χ^2/NDF : 2026366.7/34

In: 85.963+/-0.016 χ^2/NDF :1288200.9/24

Out: 83.815+/-0.016 χ^2/NDF :1198313.3/28

All: 84.852+/-0.011 χ^2/NDF : 2495720.1/53

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.022 ± 0.030 $\chi^2/\text{NDF}: 7.5/9$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.059 ± 0.031 $\chi^2/\text{NDF}: 9.2/8$

Left: -0.016 ± 0.021 $\chi^2/\text{NDF}: 20.2/18$

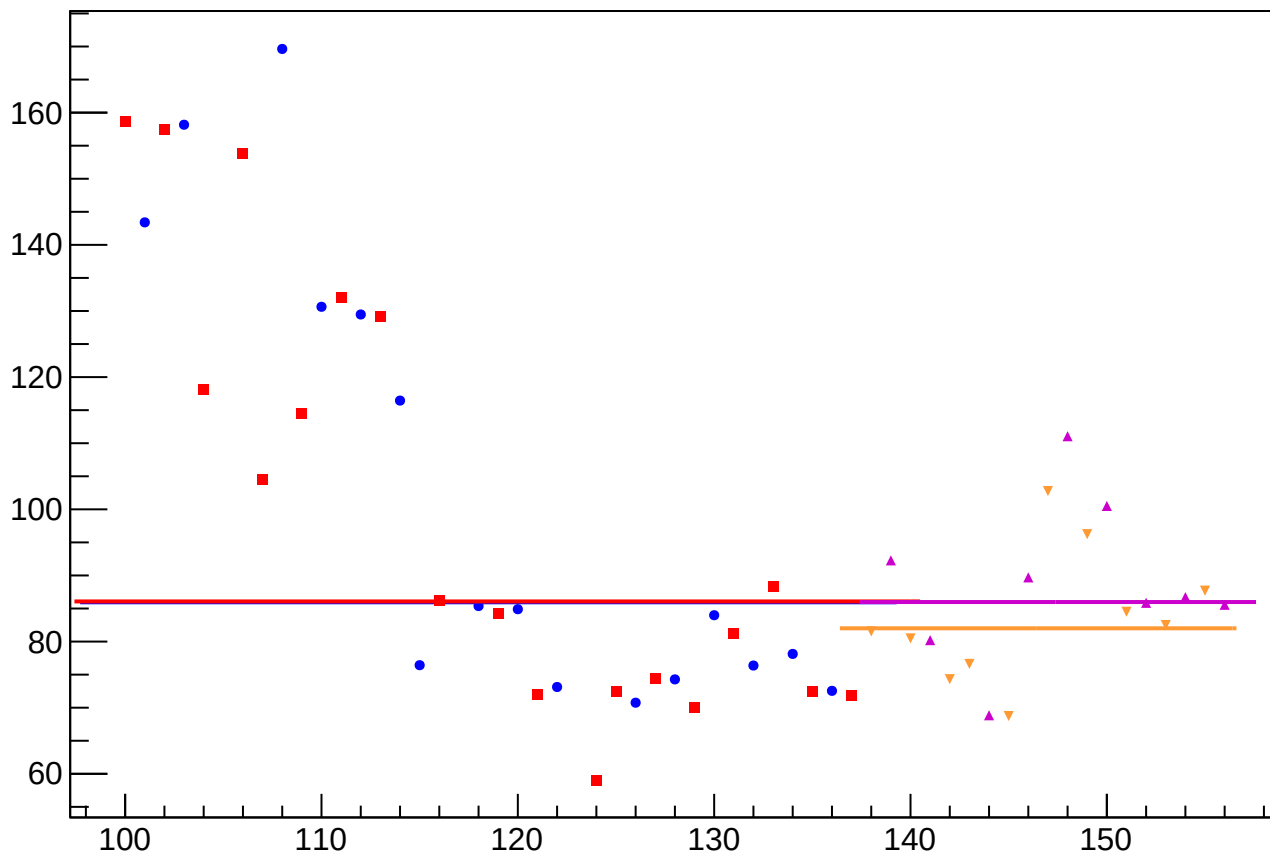
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.062 ± 0.023 $\chi^2/\text{NDF}: 23.4/24$

Out: -0.001 ± 0.022 $\chi^2/\text{NDF}: 26.9/28$

All: -0.030 ± 0.016 $\chi^2/\text{NDF}: 54.0/53$

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: 82.006 $\pm$ 0.021 χ^2 /NDF:190075.8/9

Right Out: 86.070 $\pm$ 0.023 χ^2 /NDF: 991365.2/18

Left In: 85.980 $\pm$ 0.022 χ^2 /NDF:253212.9/8

Left: 83.885 $\pm$ 0.015 χ^2 /NDF: 460417.5/18

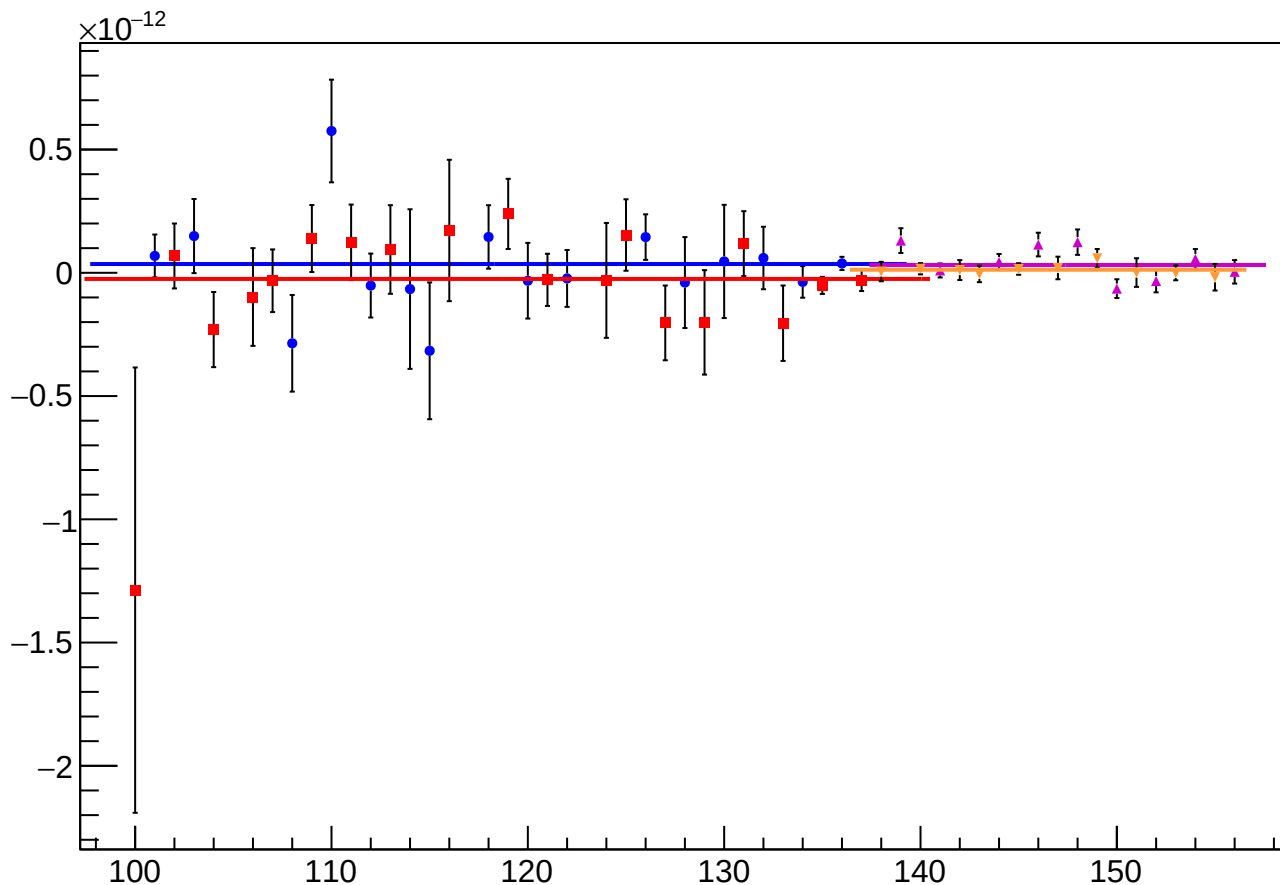
Right: 86.007 $\pm$ 0.017 χ^2 /NDF: 2026366.7/34

In: 85.963 $\pm$ 0.016 χ^2 /NDF:1288200.9/24

Out: 83.815 $\pm$ 0.016 χ^2 /NDF:1198313.3/28

All: 84.852 $\pm$ 0.011 χ^2 /NDF: 2495720.1/53

asym_sam_26_dd_eigen_cor_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 : 2.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 17.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 19.9/8

Left: 0.000+/-0.000 χ^2/NDF : 23.6/18

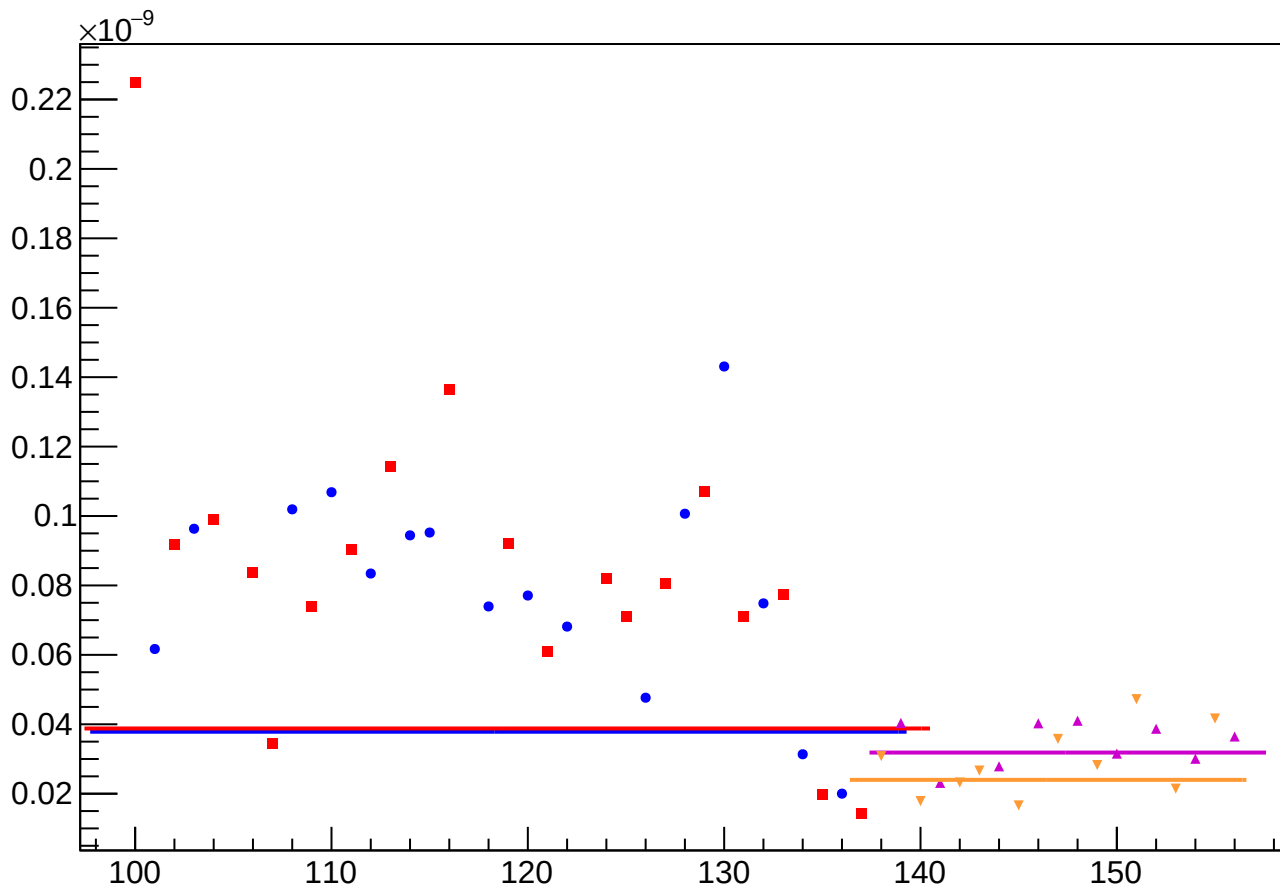
Right: 0.000+/-0.000 χ^2/NDF : 38.2/34

In: 0.000+/-0.000 χ^2/NDF : 36.3/24

Out: 0.000+/-0.000 χ^2/NDF : 22.5/28

All: 0.000+/-0.000 χ^2/NDF : 62.3/53

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 :1121233.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4121603.1/18

Left In: 0.000+/-0.000 χ^2/NDF :467129.6/8

Left: 0.000+/-0.000 χ^2/NDF : 2011835.7/18

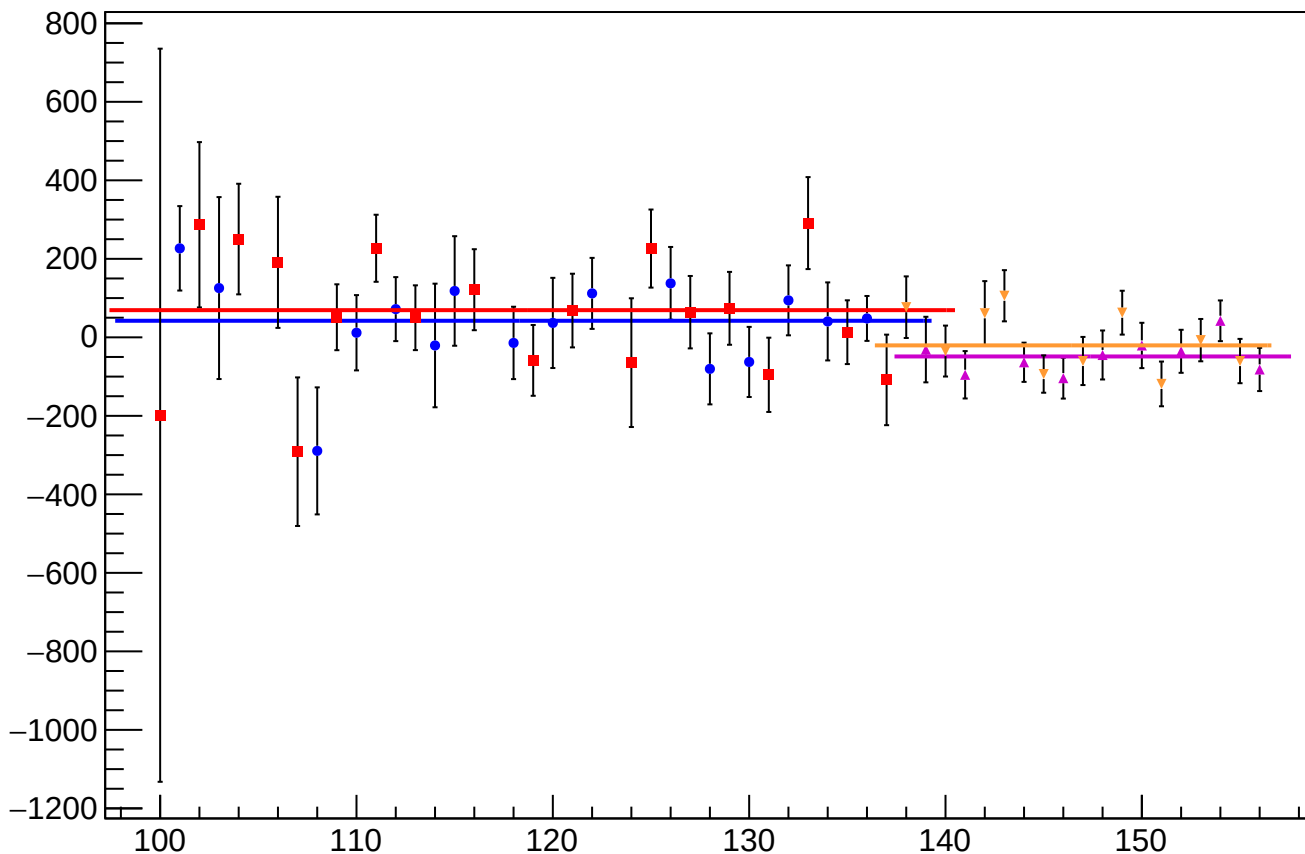
Right: 0.000+/-0.000 χ^2/NDF : 7580417.6/34

In: 0.000+/-0.000 χ^2/NDF :4043466.1/24

Out: 0.000+/-0.000 χ^2/NDF :5966262.5/28

All: 0.000+/-0.000 χ^2/NDF : 10440992.6/53

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.220 ± 24.207 $\chi^2/\text{NDF}: 13.6/15$

Left Out: -20.495 ± 18.972 $\chi^2/\text{NDF}: 14.9/9$

Right Out: 69.249 ± 24.418 $\chi^2/\text{NDF}: 25.4/18$

Left In: -48.702 ± 18.970 $\chi^2/\text{NDF}: 5.6/8$

Left: -34.600 ± 13.415 $\chi^2/\text{NDF}: 21.6/18$

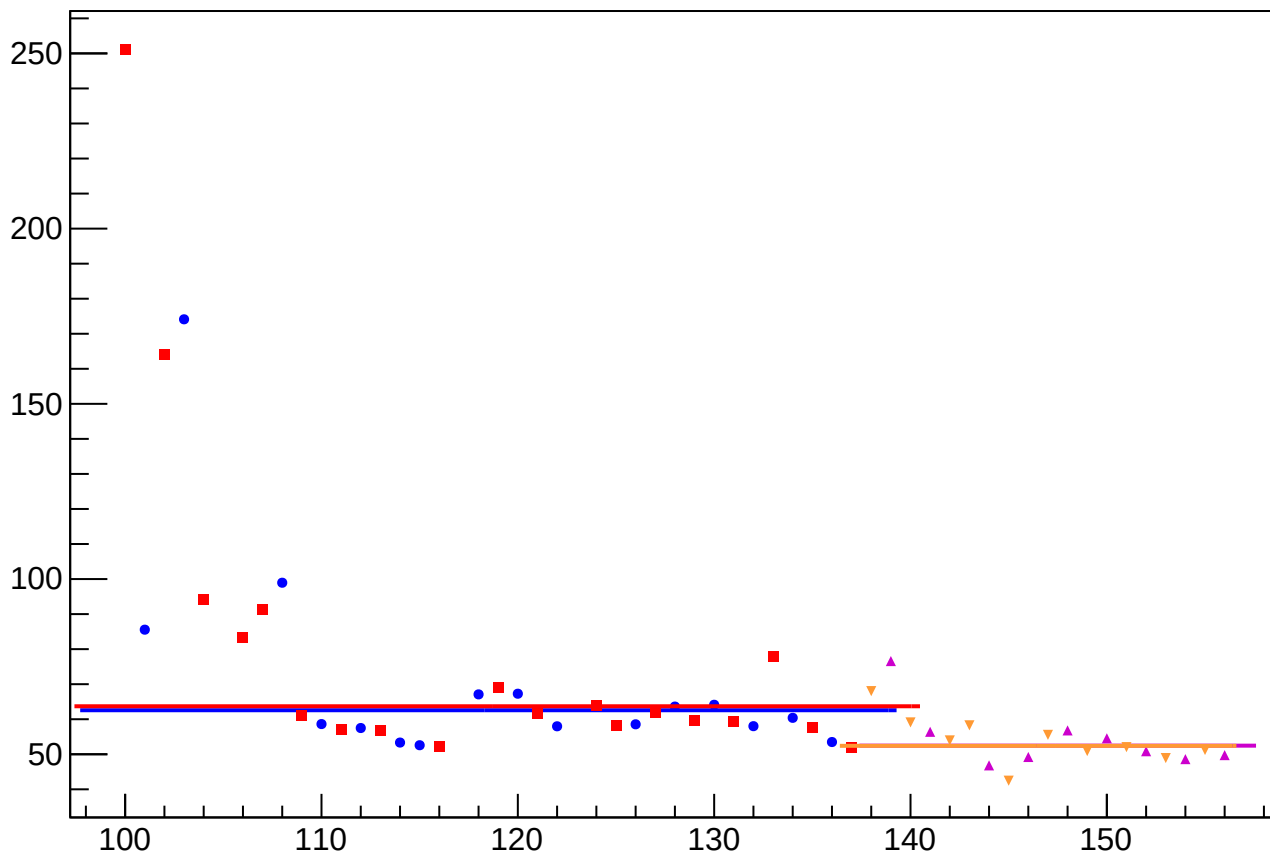
Right: 55.617 ± 17.191 $\chi^2/\text{NDF}: 39.5/34$

In: -14.110 ± 14.931 $\chi^2/\text{NDF}: 27.9/24$

Out: 13.288 ± 14.982 $\chi^2/\text{NDF}: 48.7/28$

All: -0.457 ± 10.576 $\chi^2/\text{NDF}: 78.2/53$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566+/-0.017 χ^2/NDF : 758603.5/15

Left Out: 52.411+/-0.013 χ^2/NDF : 220542.6/9

Right Out: 63.699+/-0.017 χ^2/NDF : 834180.2/18

Left In: 52.460+/-0.013 χ^2/NDF : 238635.2/8

Left: 52.436+/-0.009 χ^2/NDF : 459184.4/18

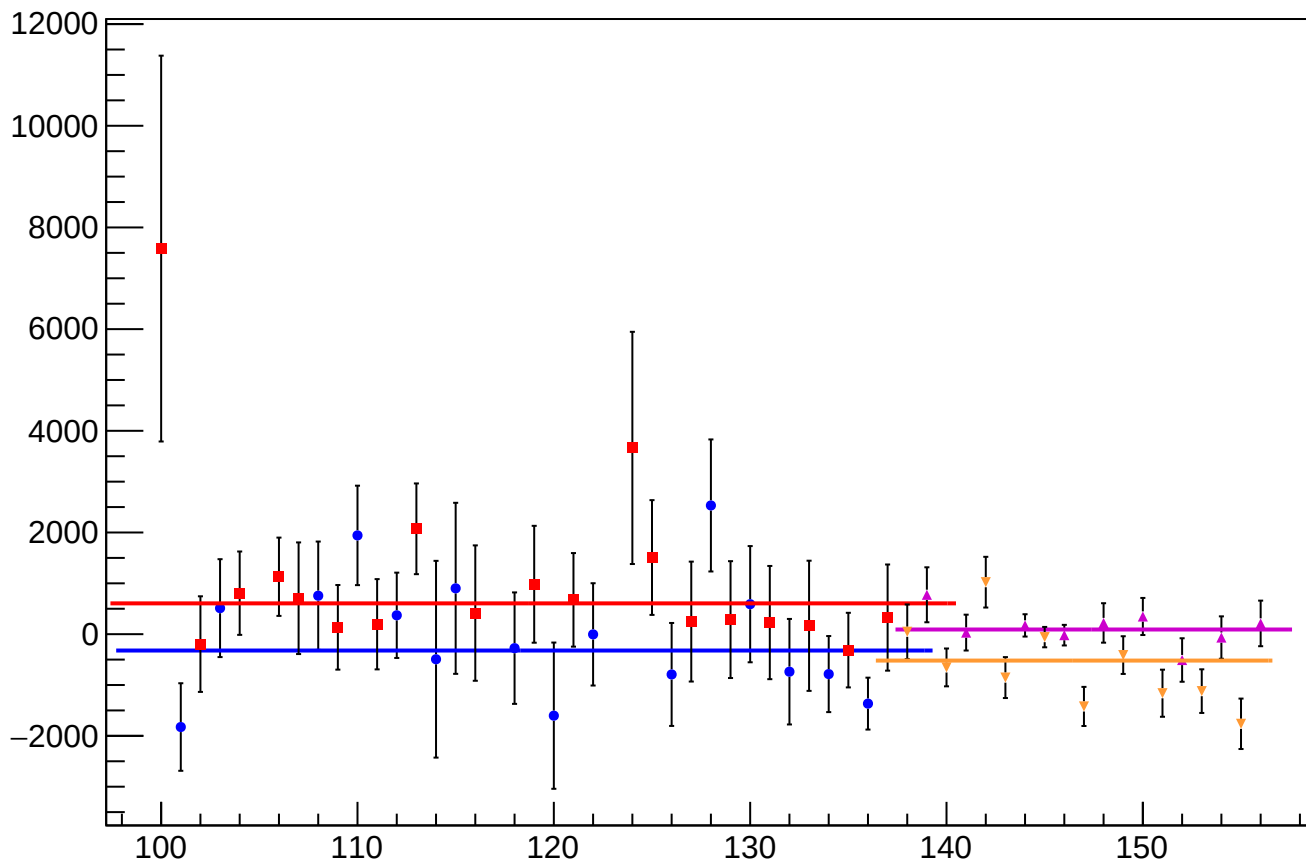
Right: 63.127+/-0.012 χ^2/NDF : 1594958.1/34

In: 56.305+/-0.011 χ^2/NDF : 1213180.3/24

Out: 56.661+/-0.011 χ^2/NDF : 1321227.8/28

All: 56.482+/-0.007 χ^2/NDF : 2534974.0/53

asym_sam_37_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -321.663+/-238.482 χ^2/NDF : 22.7/15

Left Out: -519.311+/-116.267 χ^2/NDF :32.6/9

Right Out: 605.859+/-233.643 χ^2/NDF : 12.5/18

Left In: 91.773+/-107.259 χ^2/NDF :4.8/8

Left: -189.184+/-78.836 χ^2/NDF : 52.3/18

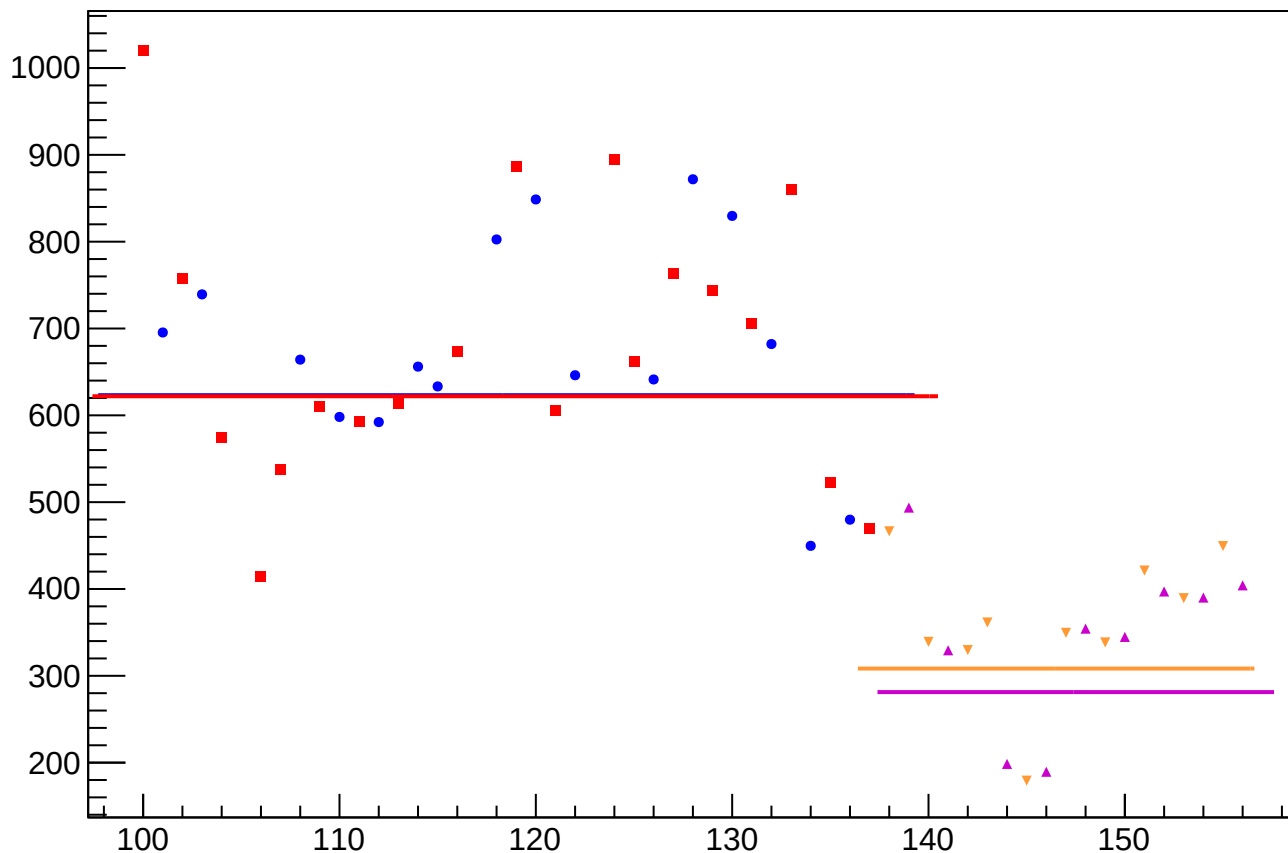
Right: 151.604+/-166.895 χ^2/NDF : 42.9/34

In: 22.213+/-97.821 χ^2/NDF :30.1/24

Out: -295.986+/-104.091 χ^2/NDF :63.6/28

All: -127.015+/-71.283 χ^2/NDF : 98.6/53

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: 308.373+/-0.082 χ^2/NDF : 1444089.3/9

Right Out: 621.975+/-0.165 χ^2/NDF : 582591.9/18

Left In: 281.251+/-0.076 χ^2/NDF : 1605169.4/8

Left: 293.721+/-0.056 χ^2/NDF : 3108054.8/18

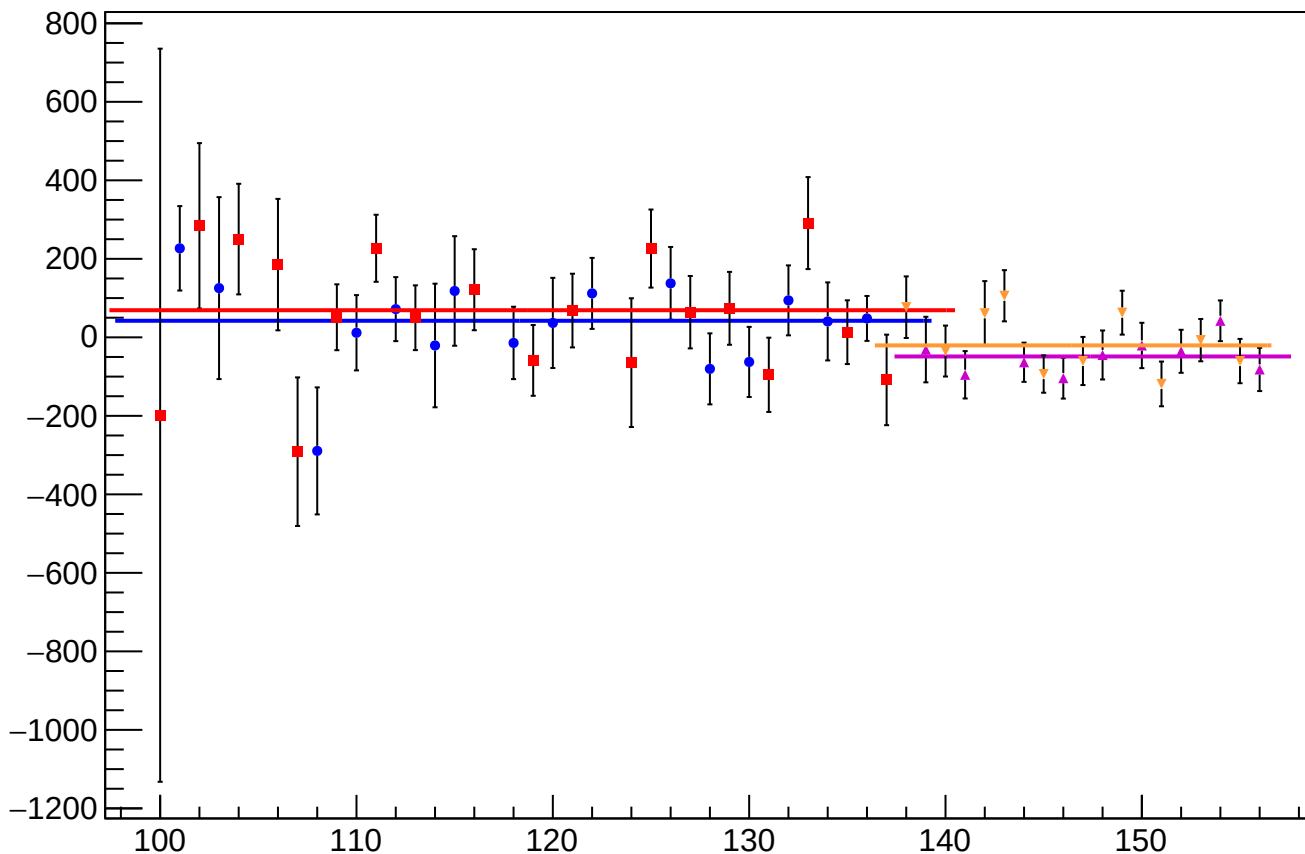
Right: 622.565+/-0.118 χ^2/NDF : 1148142.8/34

In: 338.780+/-0.069 χ^2/NDF : 5590378.0/24

Out: 370.617+/-0.074 χ^2/NDF : 4914662.2/28

All: 353.711+/-0.050 χ^2/NDF : 10604393.9/53

cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213 ± 24.207 $\chi^2/\text{NDF}: 13.6/15$

Left Out: -20.493 ± 18.972 $\chi^2/\text{NDF}: 14.9/9$

Right Out: 69.068 ± 24.420 $\chi^2/\text{NDF}: 25.3/18$

Left In: -48.701 ± 18.970 $\chi^2/\text{NDF}: 5.6/8$

Left: -34.599 ± 13.415 $\chi^2/\text{NDF}: 21.6/18$

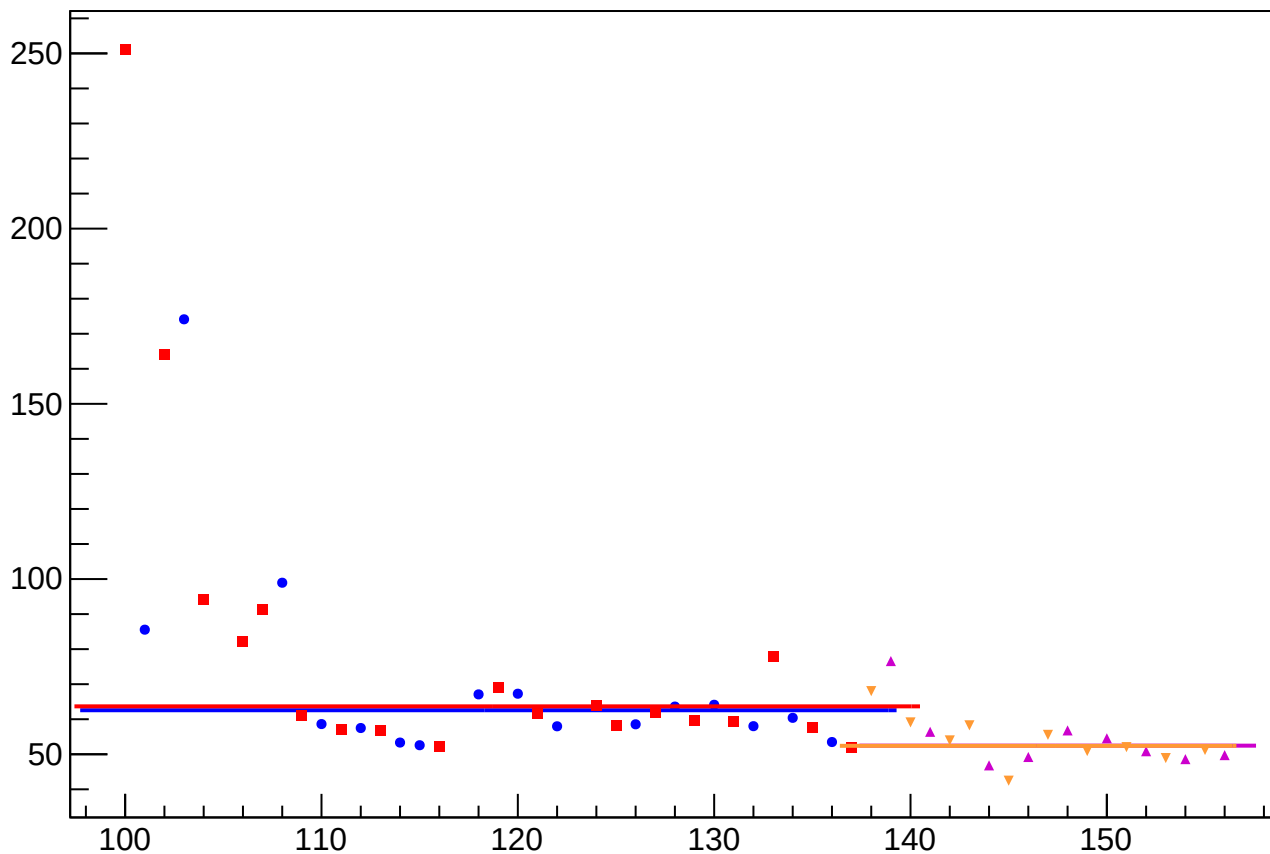
Right: 55.523 ± 17.192 $\chi^2/\text{NDF}: 39.4/34$

In: -14.112 ± 14.931 $\chi^2/\text{NDF}: 27.9/24$

Out: 13.219 ± 14.982 $\chi^2/\text{NDF}: 48.5/28$

All: -0.493 ± 10.576 $\chi^2/\text{NDF}: 78.1/53$

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: 52.411 $\pm$ 0.013 χ^2 /NDF: 220542.6/9

Right Out: 63.675 $\pm$ 0.017 χ^2 /NDF: 831432.5/18

Left In: 52.460 $\pm$ 0.013 χ^2 /NDF: 238635.2/8

Left: 52.436 $\pm$ 0.009 χ^2 /NDF: 459184.4/18

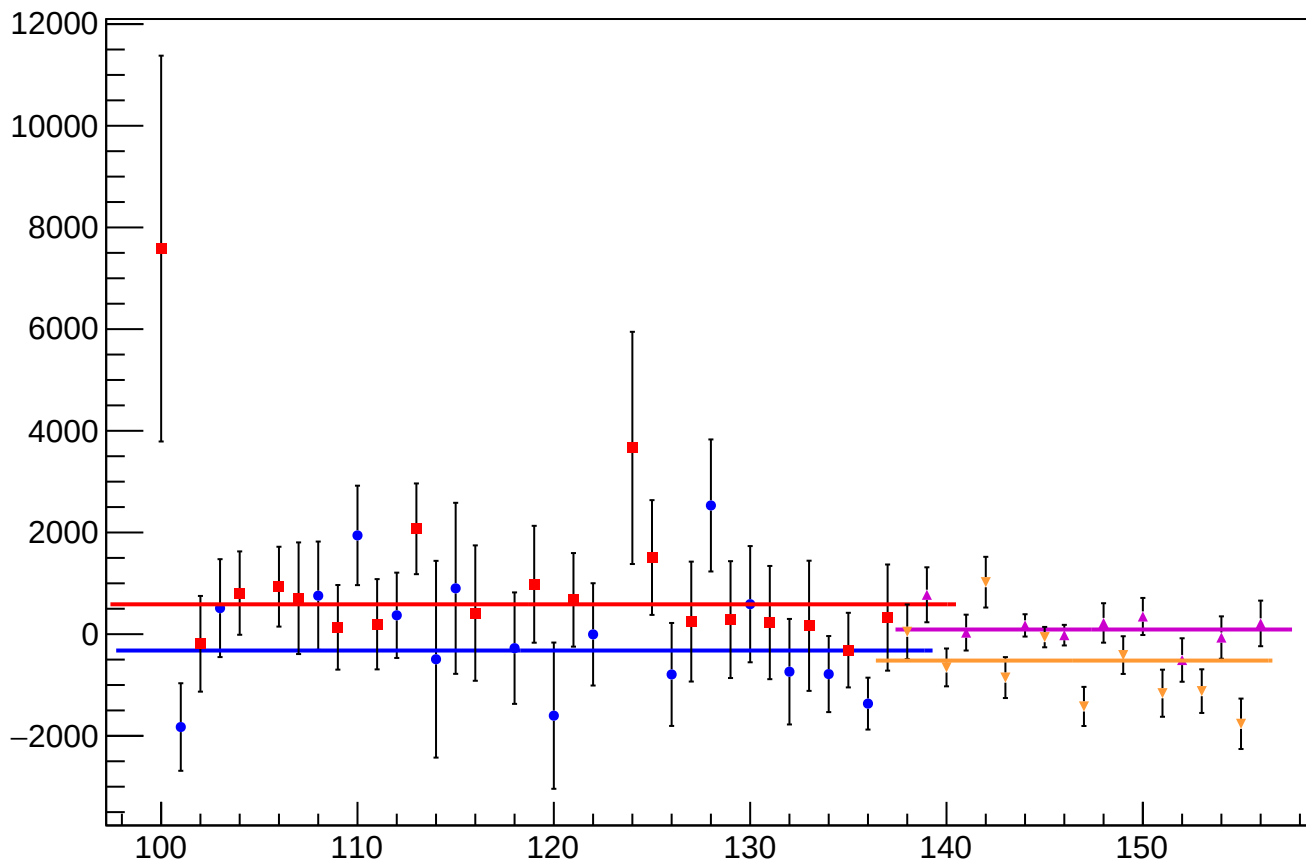
Right: 63.115 $\pm$ 0.012 χ^2 /NDF: 1592120.8/34

In: 56.305 $\pm$ 0.011 χ^2 /NDF: 1213182.3/24

Out: 56.651 $\pm$ 0.011 χ^2 /NDF: 1317321.4/28

All: 56.477 $\pm$ 0.007 χ^2 /NDF: 2531040.0/53

asym_sam_37_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660+/-238.484 χ^2/NDF : 22.7/15

Left Out: -519.308+/-116.267 χ^2/NDF :32.6/9

Right Out: 587.224+/-234.080 χ^2/NDF : 12.2/18

Left In: 91.777+/-107.259 χ^2/NDF :4.8/8

Left: -189.180+/-78.836 χ^2/NDF : 52.3/18

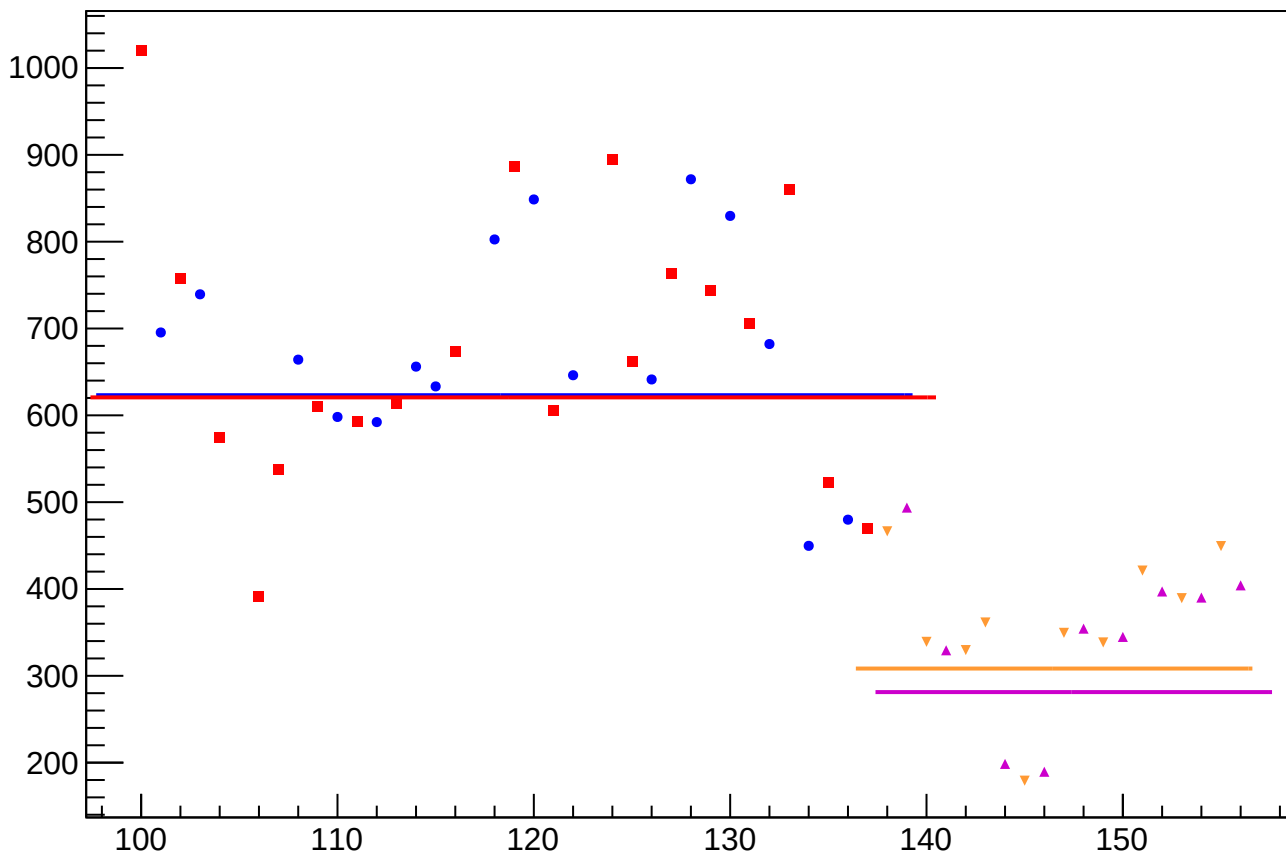
Right: 141.251+/-167.055 χ^2/NDF : 42.3/34

In: 22.218+/-97.821 χ^2/NDF :30.1/24

Out: -300.339+/-104.129 χ^2/NDF :62.7/28

All: -128.995+/-71.296 χ^2/NDF : 97.8/53

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: 308.373+/-0.082 χ^2/NDF :1444095.2/9

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 281.251+/-0.076 χ^2/NDF :1605175.6/8

Left: 293.720+/-0.056 χ^2/NDF : 3108066.7/18

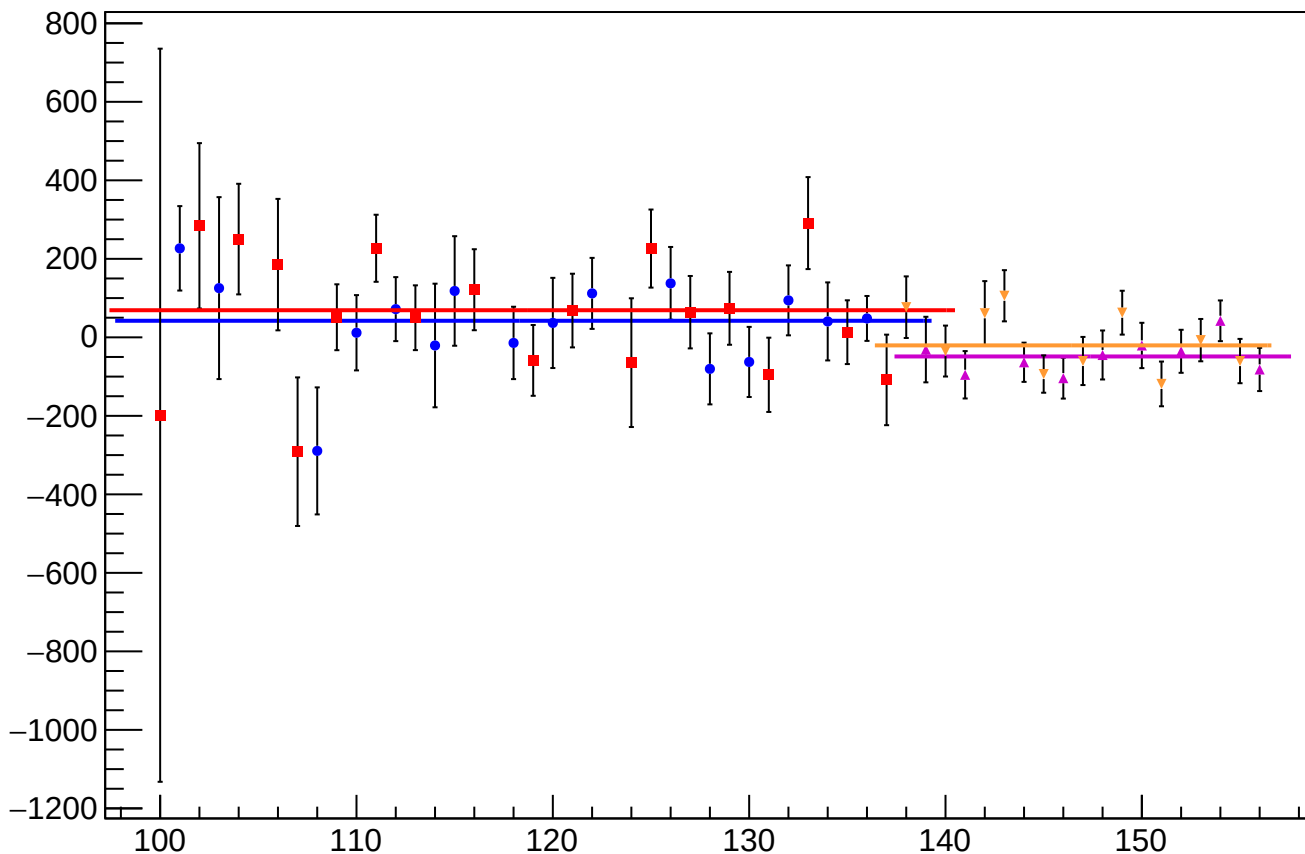
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 338.780+/-0.069 χ^2/NDF :5590445.3/24

Out: 370.173+/-0.074 χ^2/NDF :4910113.6/28

All: 353.497+/-0.050 χ^2/NDF : 10597124.4/53

eigen_cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213 ± 24.207 $\chi^2/\text{NDF}: 13.6/15$

Left Out: -20.493 ± 18.972 $\chi^2/\text{NDF}: 14.9/9$

Right Out: 69.068 ± 24.420 $\chi^2/\text{NDF}: 25.3/18$

Left In: -48.701 ± 18.970 $\chi^2/\text{NDF}: 5.6/8$

Left: -34.599 ± 13.415 $\chi^2/\text{NDF}: 21.6/18$

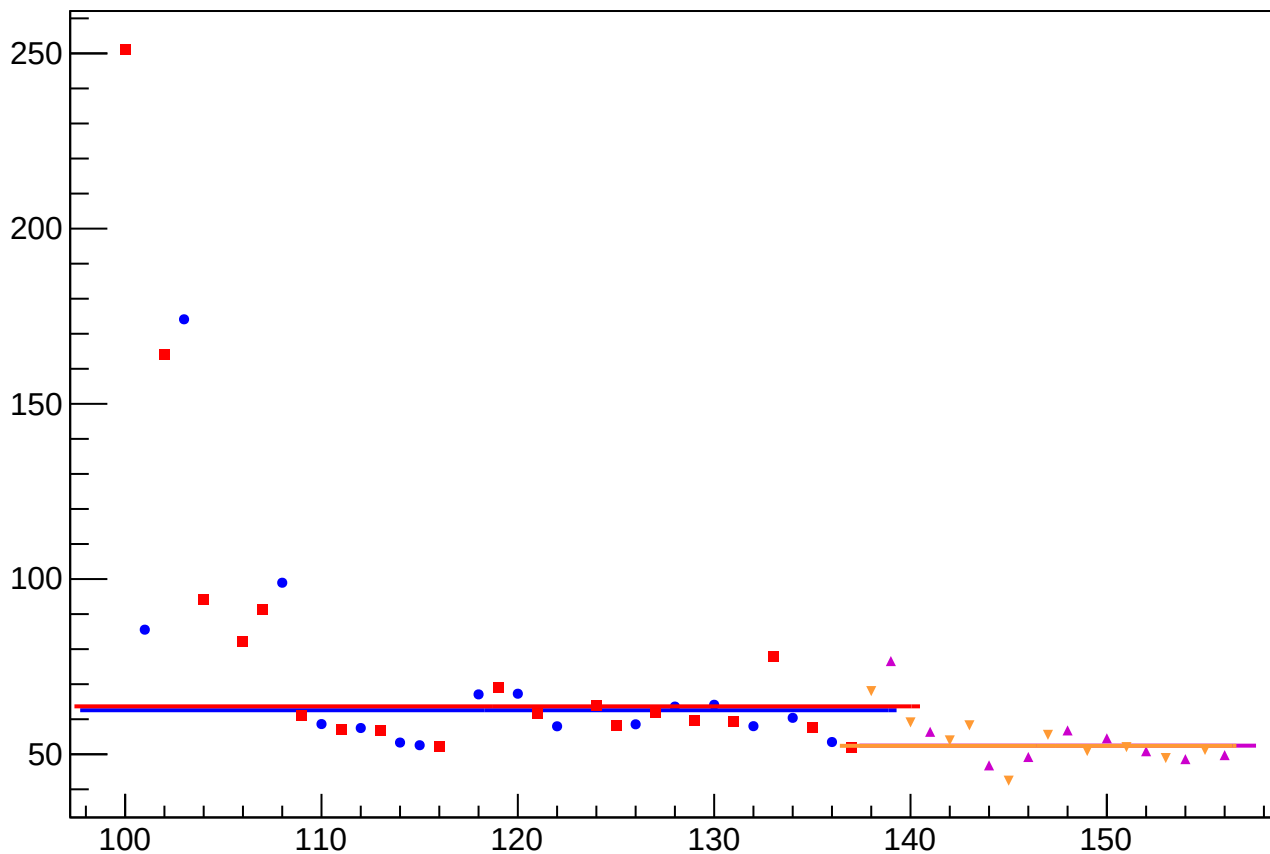
Right: 55.523 ± 17.192 $\chi^2/\text{NDF}: 39.4/34$

In: -14.112 ± 14.931 $\chi^2/\text{NDF}: 27.9/24$

Out: 13.219 ± 14.982 $\chi^2/\text{NDF}: 48.5/28$

All: -0.493 ± 10.576 $\chi^2/\text{NDF}: 78.1/53$

eigen_cor_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566+/-0.017 χ^2/NDF : 758605.6/15

Left Out: 52.411+/-0.013 χ^2/NDF : 220542.6/9

Right Out: 63.675+/-0.017 χ^2/NDF : 831432.5/18

Left In: 52.460+/-0.013 χ^2/NDF : 238635.2/8

Left: 52.436+/-0.009 χ^2/NDF : 459184.4/18

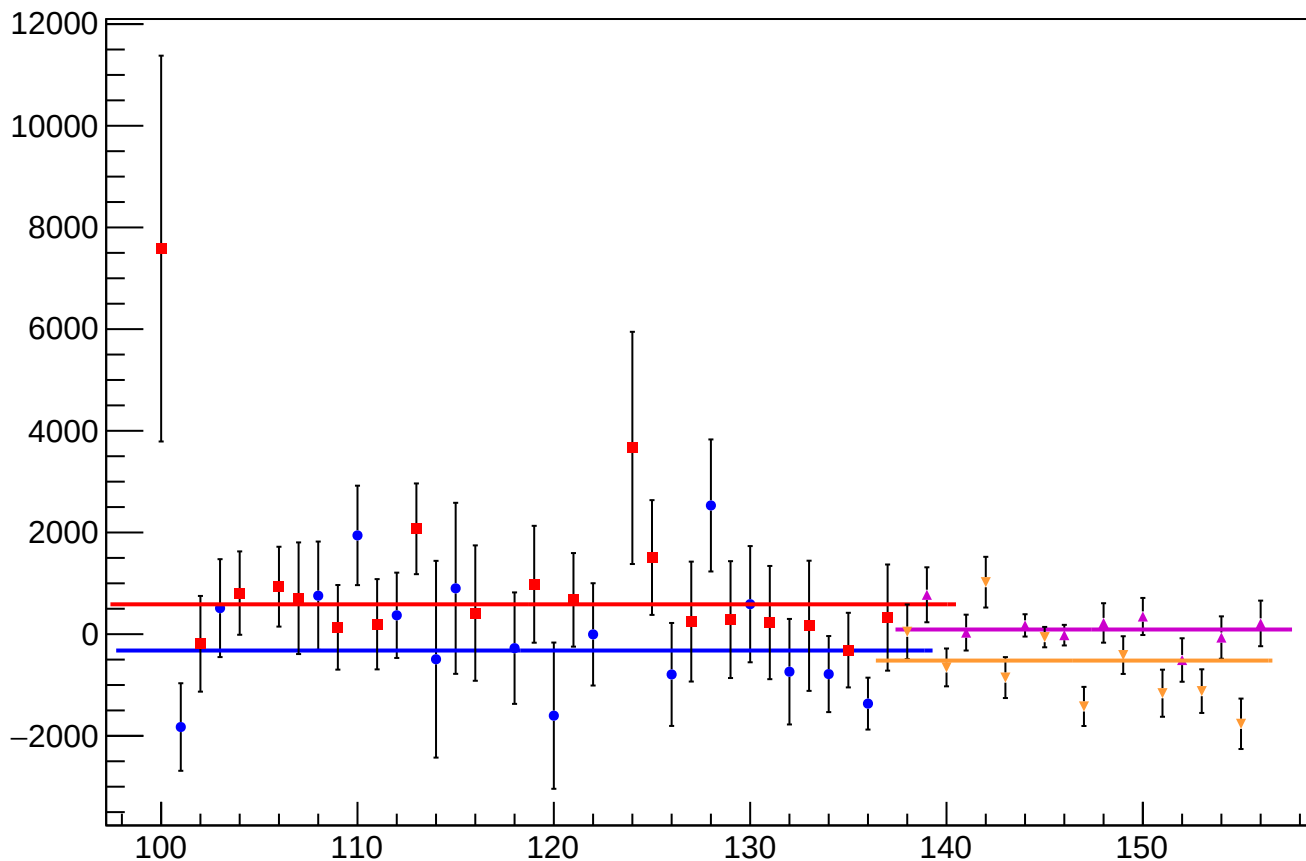
Right: 63.115+/-0.012 χ^2/NDF : 1592120.8/34

In: 56.305+/-0.011 χ^2/NDF : 1213182.3/24

Out: 56.651+/-0.011 χ^2/NDF : 1317321.4/28

All: 56.477+/-0.007 χ^2/NDF : 2531040.0/53

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660+/-238.484 χ^2/NDF : 22.7/15

Left Out: -519.308+/-116.267 χ^2/NDF :32.6/9

Right Out: 587.224+/-234.080 χ^2/NDF : 12.2/18

Left In: 91.777+/-107.259 χ^2/NDF :4.8/8

Left: -189.180+/-78.836 χ^2/NDF : 52.3/18

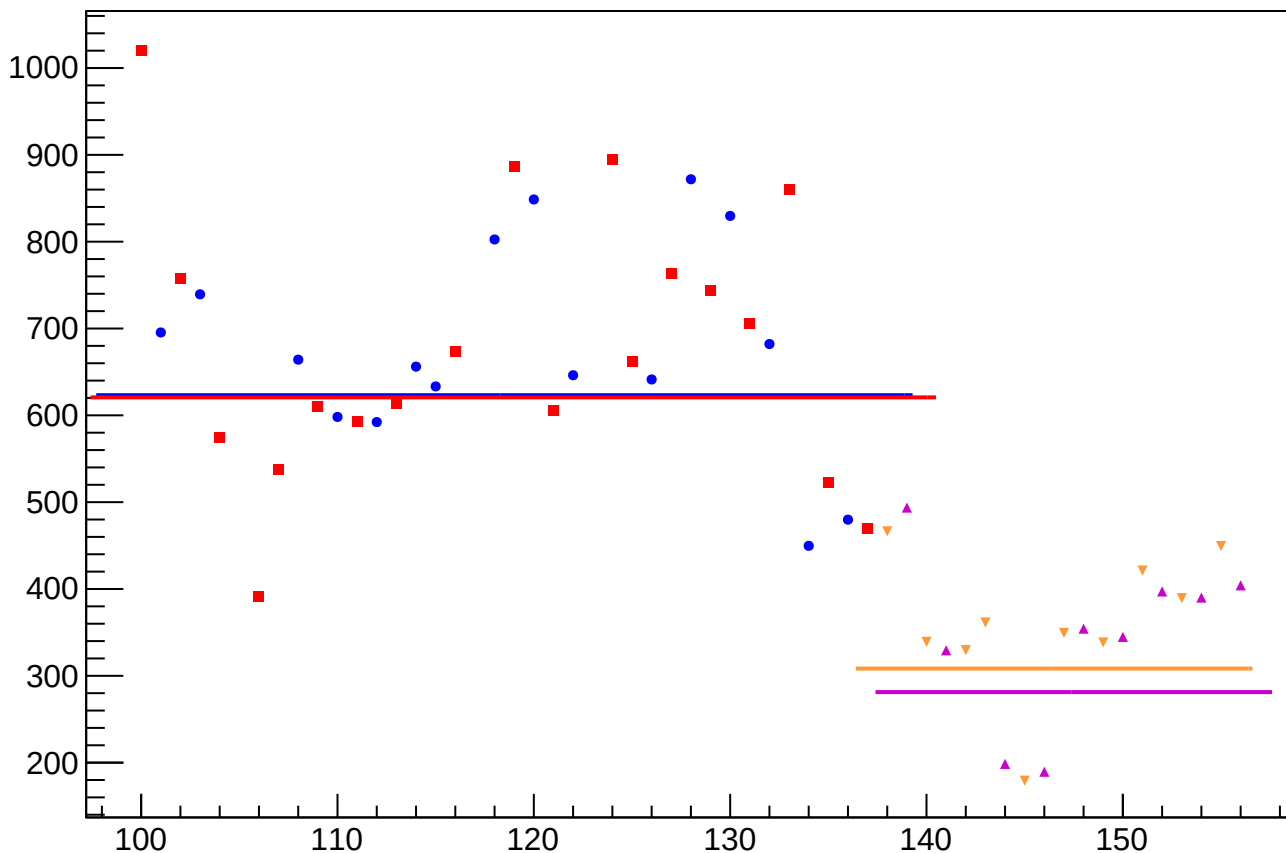
Right: 141.251+/-167.055 χ^2/NDF : 42.3/34

In: 22.218+/-97.821 χ^2/NDF :30.1/24

Out: -300.339+/-104.129 χ^2/NDF :62.7/28

All: -128.995+/-71.296 χ^2/NDF : 97.8/53

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: 308.373+/-0.082 χ^2/NDF :1444095.2/9

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 281.251+/-0.076 χ^2/NDF :1605175.6/8

Left: 293.720+/-0.056 χ^2/NDF : 3108066.7/18

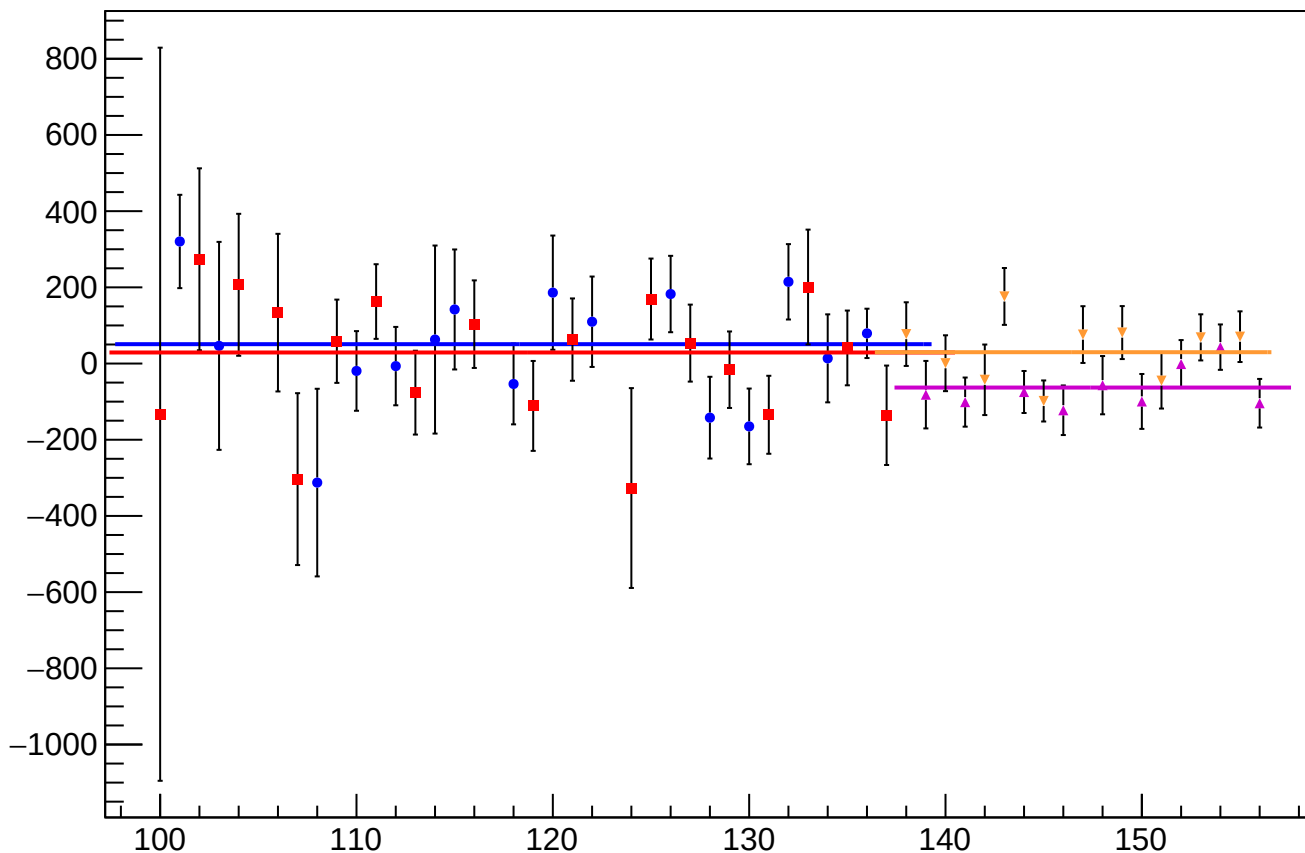
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 338.780+/-0.069 χ^2/NDF :5590445.3/24

Out: 370.173+/-0.074 χ^2/NDF :4910113.6/28

All: 353.497+/-0.050 χ^2/NDF : 10597124.4/53

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: 29.785 $\pm$ 22.126 χ^2 /NDF:13.3/9

Right Out: 29.040 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -63.015 $\pm$ 21.941 χ^2 /NDF:6.1/8

Left: -17.005 $\pm$ 15.580 χ^2 /NDF: 28.3/18

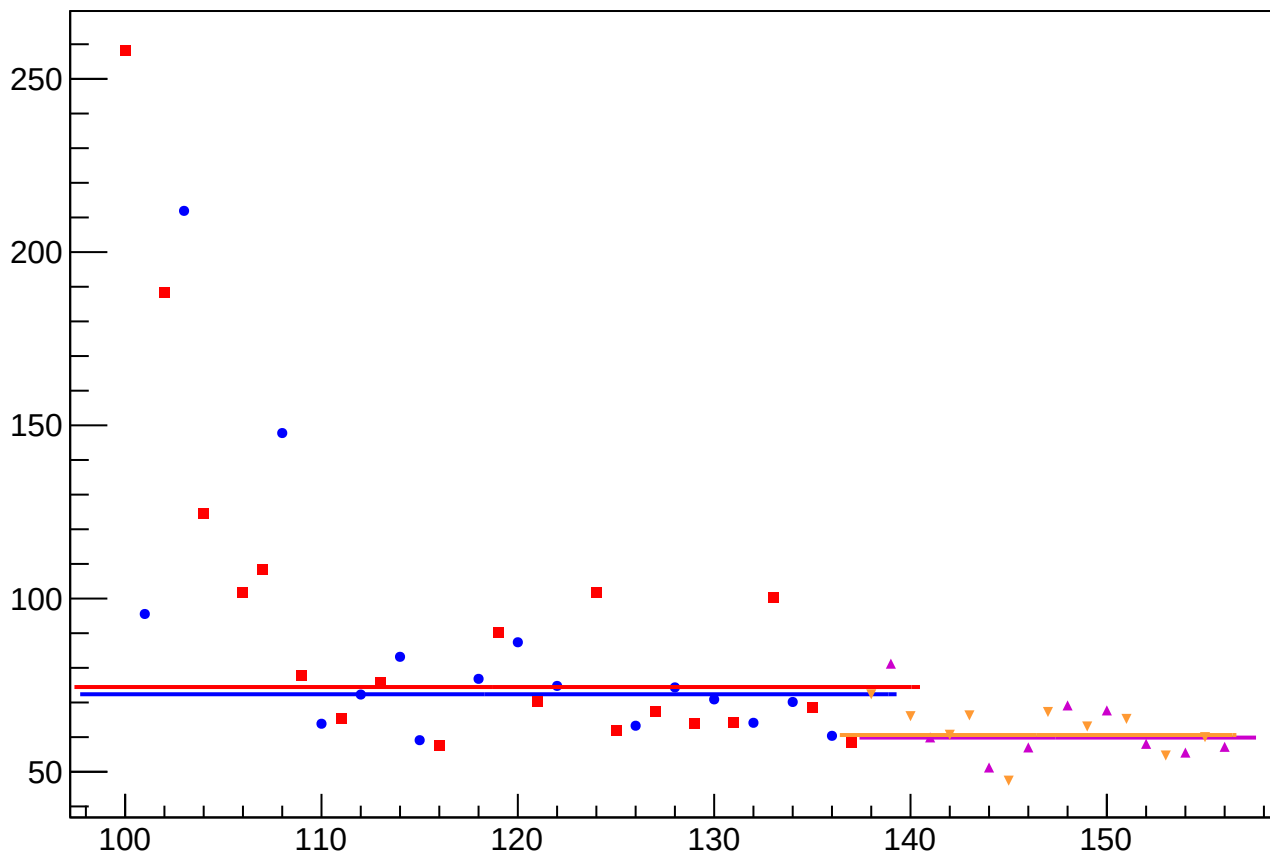
Right: 40.166 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: -20.301 $\pm$ 17.344 χ^2 /NDF:39.1/24

Out: 29.510 $\pm$ 17.571 χ^2 /NDF:31.9/28

All: 4.281 $\pm$ 12.343 χ^2 /NDF: 75.0/53

dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378+/-0.020 χ^2/NDF : 938175.3/15

Left Out: 60.611+/-0.016 χ^2/NDF : 227429.7/9

Right Out: 74.463+/-0.020 χ^2/NDF : 1052296.6/18

Left In: 59.868+/-0.016 χ^2/NDF : 237804.3/8

Left: 60.236+/-0.011 χ^2/NDF : 466370.2/18

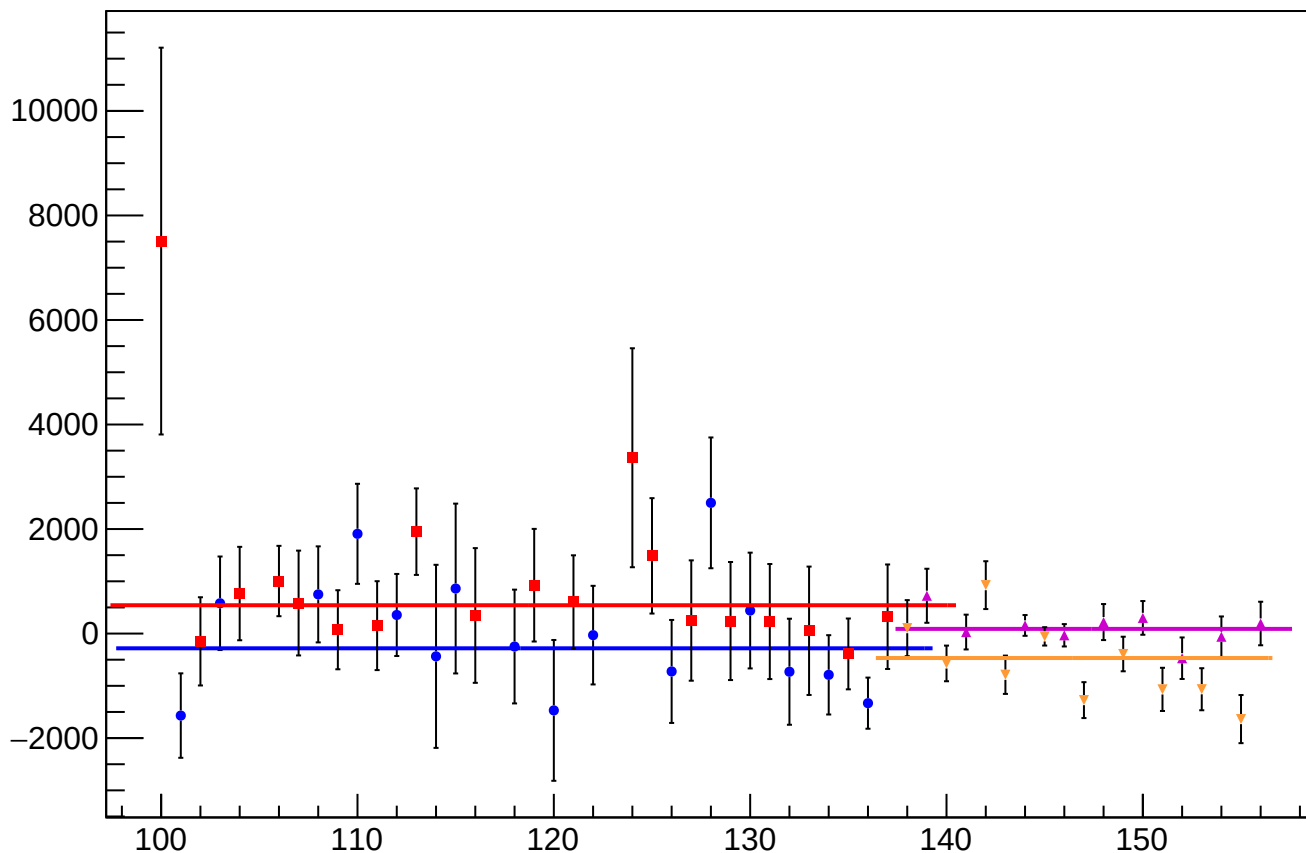
Right: 73.399+/-0.014 χ^2/NDF : 1995784.4/34

In: 64.561+/-0.012 χ^2/NDF : 1419878.6/24

Out: 65.728+/-0.012 χ^2/NDF : 1569299.9/28

All: 65.137+/-0.009 χ^2/NDF : 2993644.0/53

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: -467.992+/-104.741 χ^2/NDF : 33.2/9

Right Out: 542.028+/-220.904 χ^2/NDF : 13.3/18

Left In: 89.453+/-101.663 χ^2/NDF : 4.7/8

Left: -180.958+/-72.951 χ^2/NDF : 52.5/18

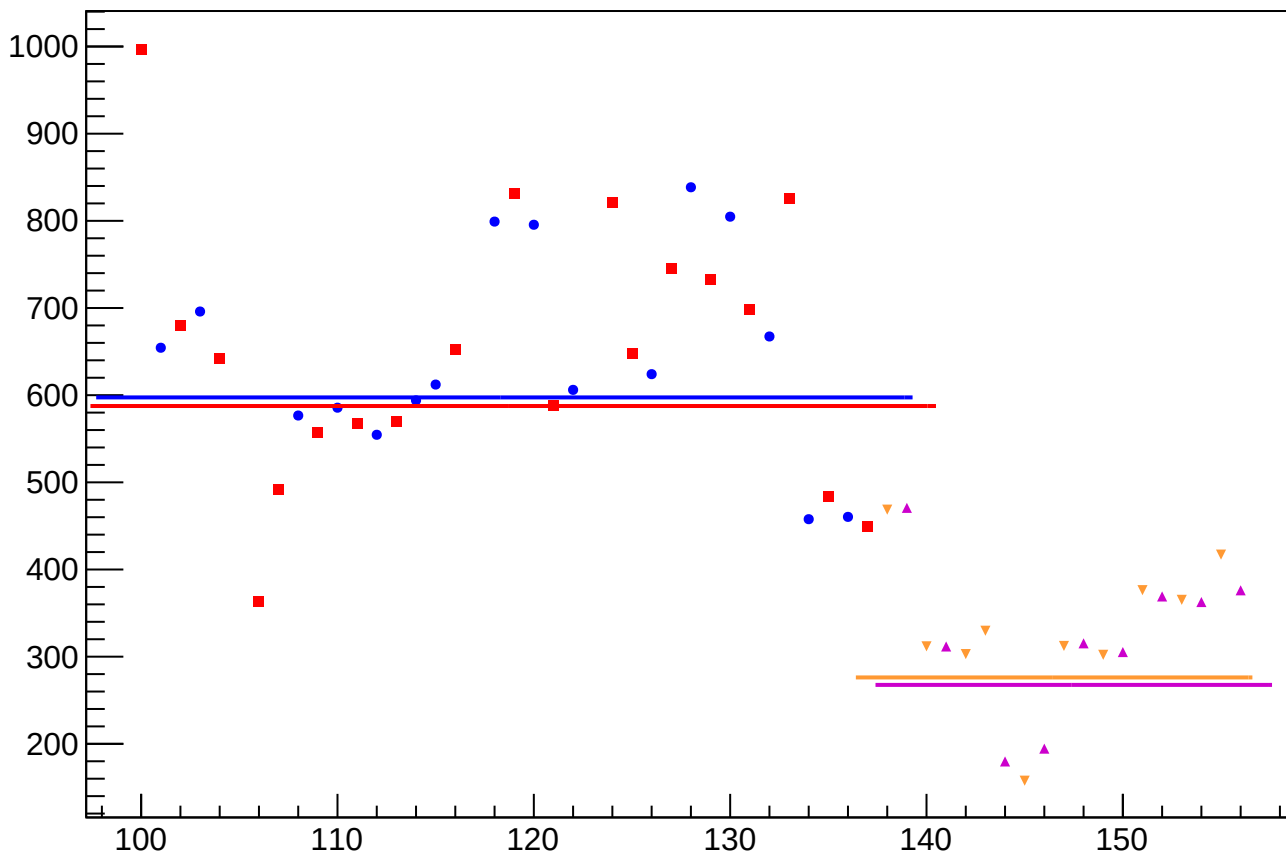
Right: 142.636+/-158.581 χ^2/NDF : 42.8/34

In: 27.747+/-92.837 χ^2/NDF : 29.8/24

Out: -282.602+/-94.642 χ^2/NDF : 63.5/28

All: -124.440+/-66.274 χ^2/NDF : 98.7/53

asym_sam_37_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.438 $\pm$ 0.161 χ^2 /NDF: 533791.9/15

Left Out: 276.173 $\pm$ 0.074 χ^2 /NDF: 1678367.8/9

Right Out: 587.565 $\pm$ 0.156 χ^2 /NDF: 689035.8/18

Left In: 267.615 $\pm$ 0.072 χ^2 /NDF: 1420350.7/8

Left: 271.766 $\pm$ 0.052 χ^2 /NDF: 3105594.7/18

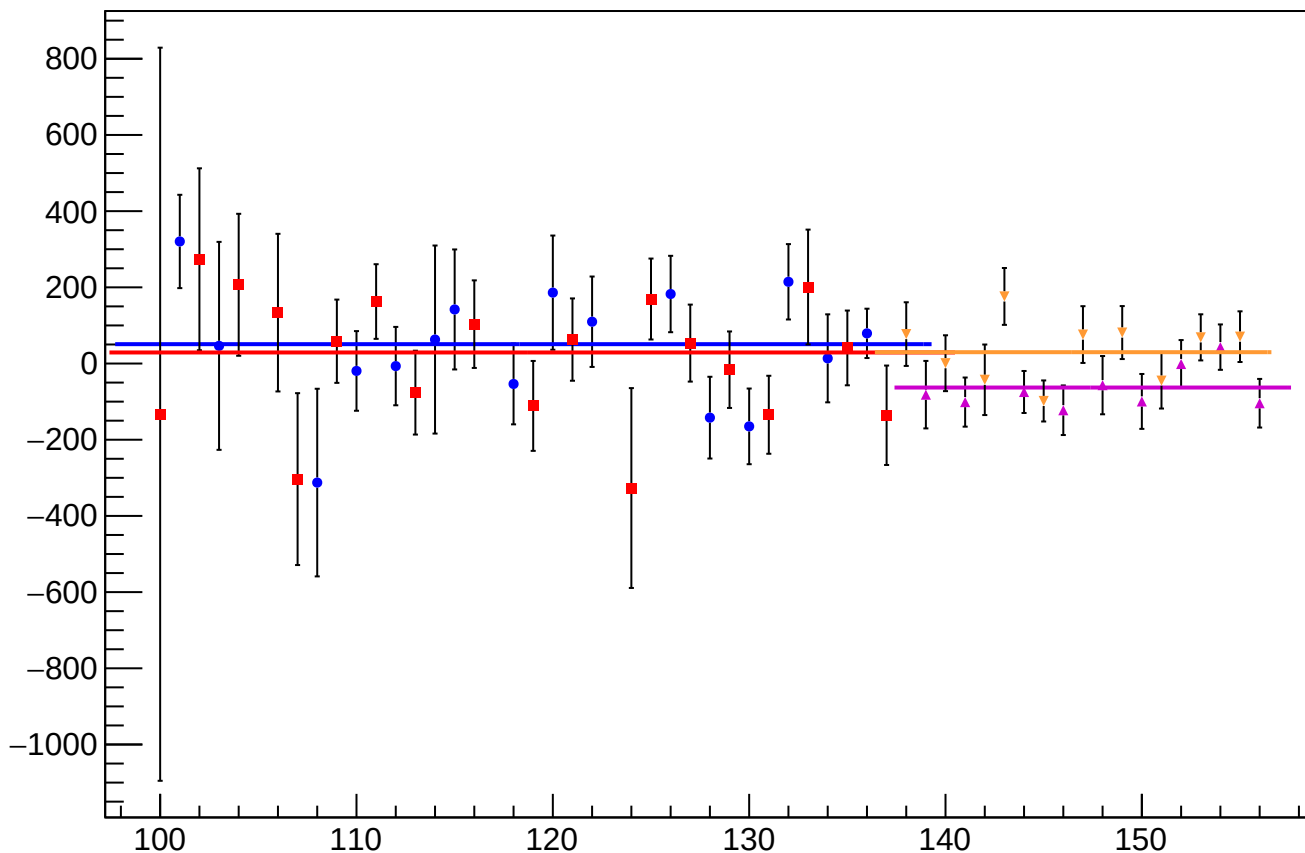
Right: 592.350 $\pm$ 0.112 χ^2 /NDF: 1224764.0/34

In: 322.399 $\pm$ 0.066 χ^2 /NDF: 5450692.6/24

Out: 333.330 $\pm$ 0.067 χ^2 /NDF: 5612035.7/28

All: 327.759 $\pm$ 0.047 χ^2 /NDF: 11076324.7/53

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: 29.787 $\pm$ 22.126 χ^2 /NDF:13.3/9

Right Out: 29.038 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -63.015 $\pm$ 21.941 χ^2 /NDF:6.1/8

Left: -17.004 $\pm$ 15.580 χ^2 /NDF: 28.3/18

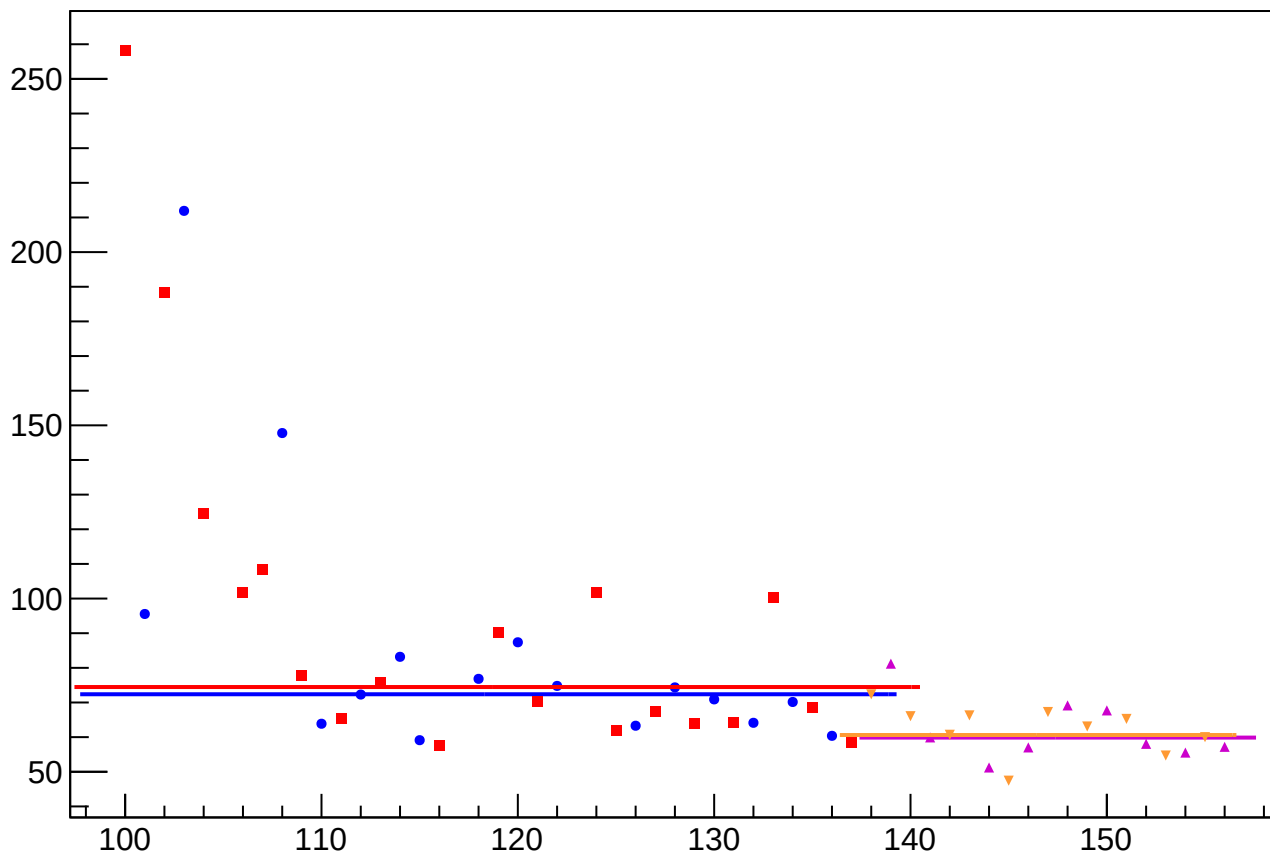
Right: 40.165 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: -20.301 $\pm$ 17.344 χ^2 /NDF:39.1/24

Out: 29.510 $\pm$ 17.571 χ^2 /NDF:31.9/28

All: 4.281 $\pm$ 12.343 χ^2 /NDF: 75.0/53

eigen_dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378+/-0.020 χ^2/NDF : 938180.0/15

Left Out: 60.611+/-0.016 χ^2/NDF : 227439.7/9

Right Out: 74.463+/-0.020 χ^2/NDF : 1052290.0/18

Left In: 59.869+/-0.016 χ^2/NDF : 237804.9/8

Left: 60.237+/-0.011 χ^2/NDF : 466380.8/18

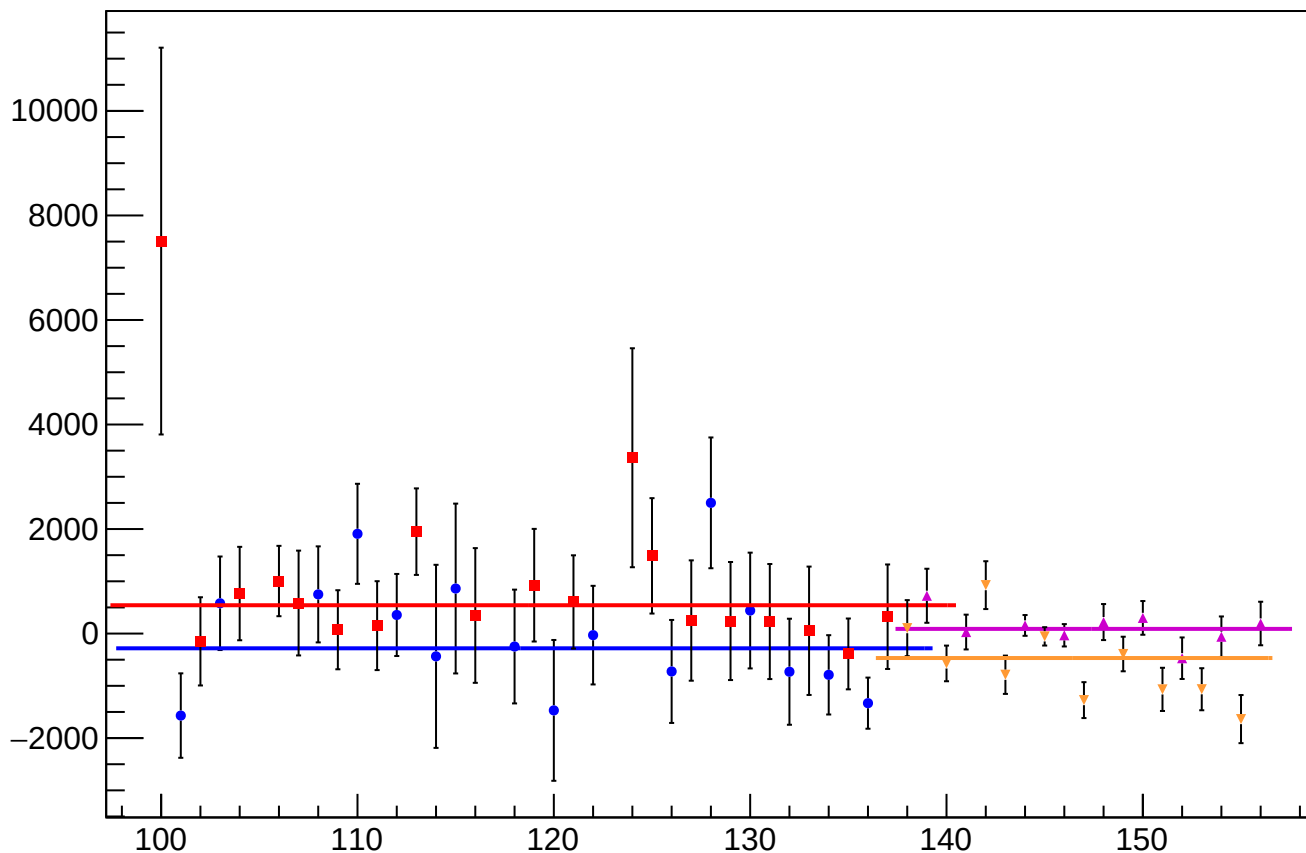
Right: 73.399+/-0.014 χ^2/NDF : 1995782.9/34

In: 64.561+/-0.012 χ^2/NDF : 1419869.2/24

Out: 65.728+/-0.012 χ^2/NDF : 1569288.9/28

All: 65.137+/-0.009 χ^2/NDF : 2993624.0/53

asym_sam_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -282.038 $\pm$ 227.789 χ^2 /NDF: 22.8/15

Left Out: -467.992 $\pm$ 104.741 χ^2 /NDF:33.2/9

Right Out: 542.028 $\pm$ 220.904 χ^2 /NDF: 13.3/18

Left In: 89.452 $\pm$ 101.663 χ^2 /NDF:4.7/8

Left: -180.958 $\pm$ 72.951 χ^2 /NDF: 52.5/18

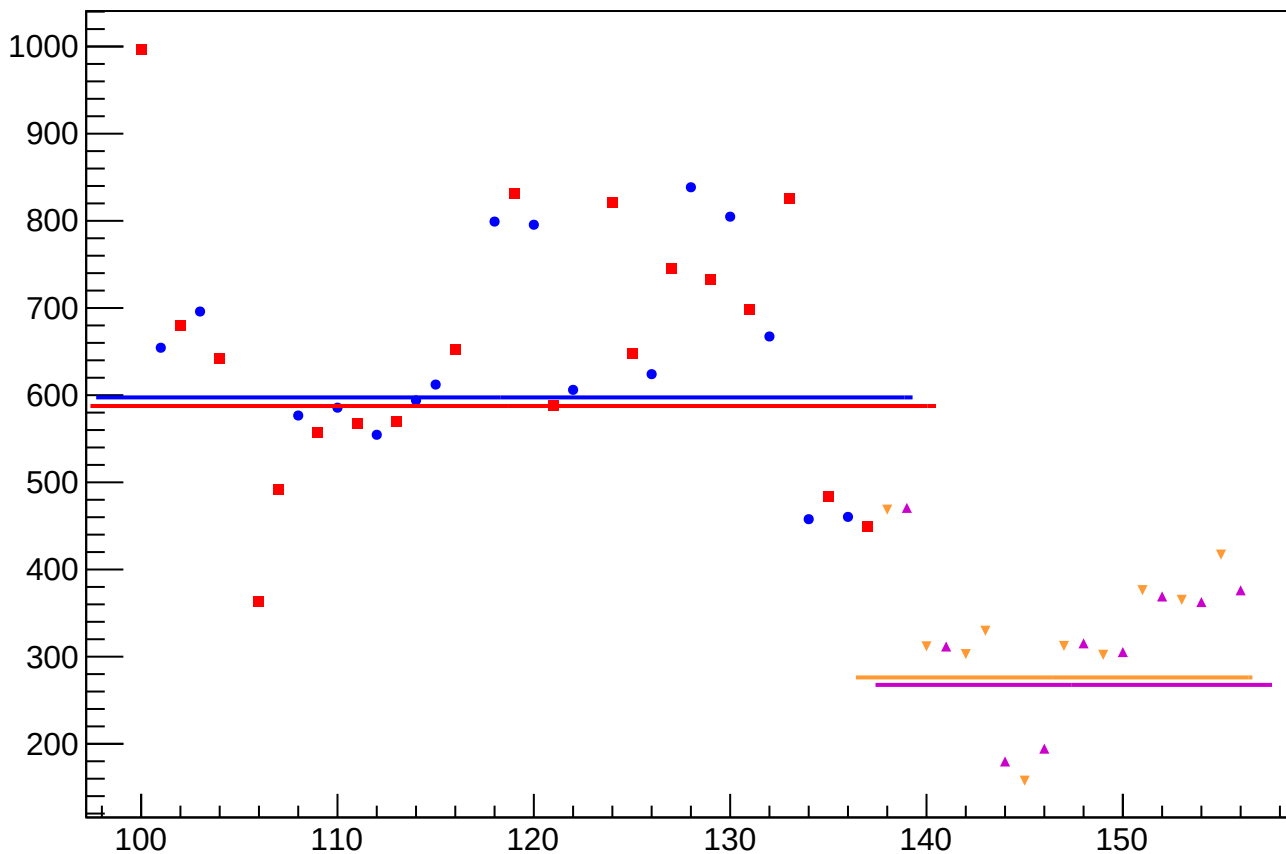
Right: 142.637 $\pm$ 158.581 χ^2 /NDF: 42.8/34

In: 27.747 $\pm$ 92.837 χ^2 /NDF:29.8/24

Out: -282.602 $\pm$ 94.642 χ^2 /NDF:63.5/28

All: -124.440 $\pm$ 66.274 χ^2 /NDF: 98.7/53

asym_sam_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.439 $\pm$ 0.161 χ^2 /NDF: 533790.1/15

Left Out: 276.173 $\pm$ 0.074 χ^2 /NDF: 1678357.7/9

Right Out: 587.565 $\pm$ 0.156 χ^2 /NDF: 689033.6/18

Left In: 267.614 $\pm$ 0.072 χ^2 /NDF: 1420343.2/8

Left: 271.766 $\pm$ 0.052 χ^2 /NDF: 3105577.3/18

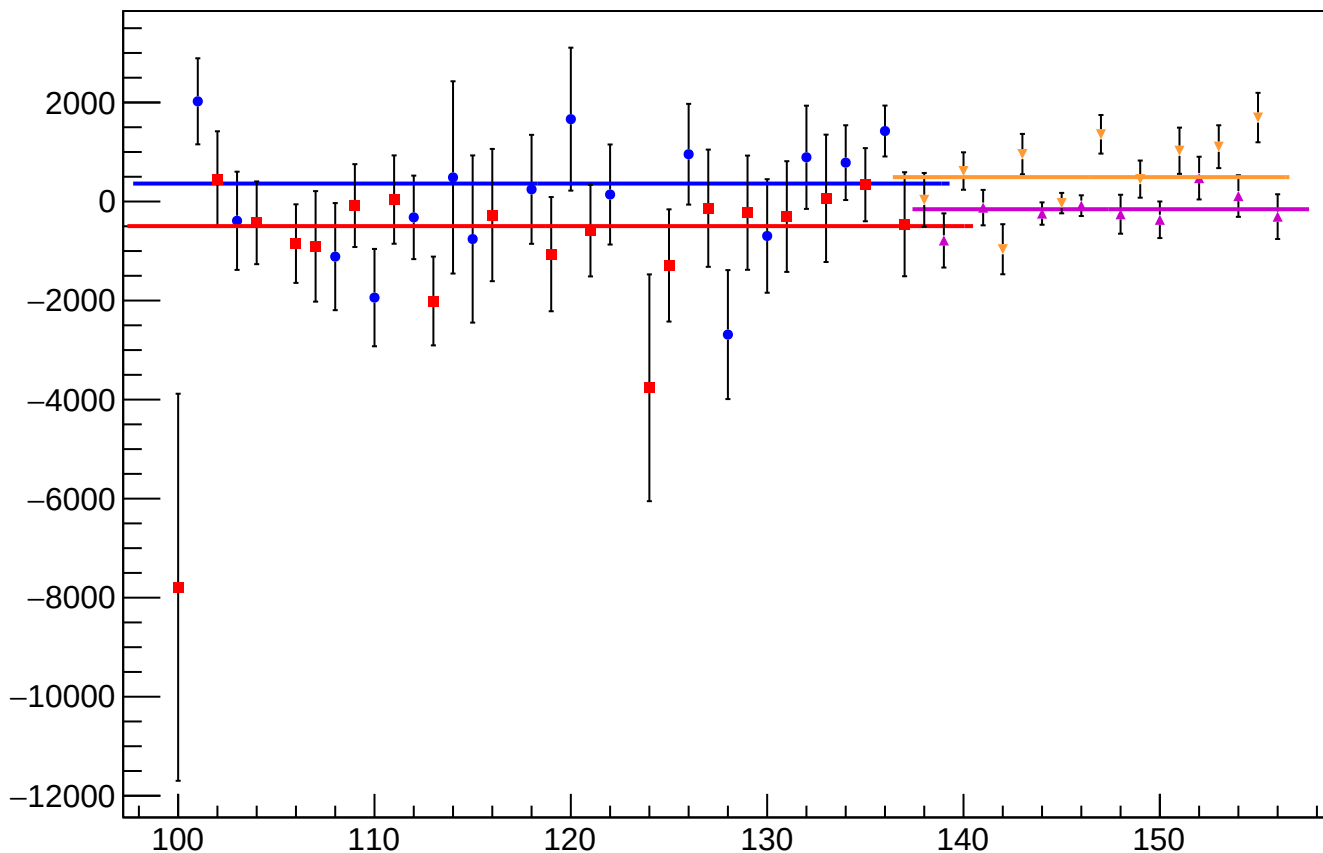
Right: 592.350 $\pm$ 0.112 χ^2 /NDF: 1224760.1/34

In: 322.399 $\pm$ 0.066 χ^2 /NDF: 5450694.9/24

Out: 333.329 $\pm$ 0.067 χ^2 /NDF: 5612025.1/28

All: 327.759 $\pm$ 0.047 χ^2 /NDF: 11076316.7/53

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 362.384 $\pm$ 240.303 χ^2 /NDF: 25.1/15

Left Out: 492.573 $\pm$ 118.251 χ^2 /NDF:31.0/9

Right Out: -496.639 $\pm$ 236.029 χ^2 /NDF: 12.7/18

Left In: -155.553 $\pm$ 109.569 χ^2 /NDF:4.6/8

Left: 143.846 $\pm$ 80.371 χ^2 /NDF: 51.8/18

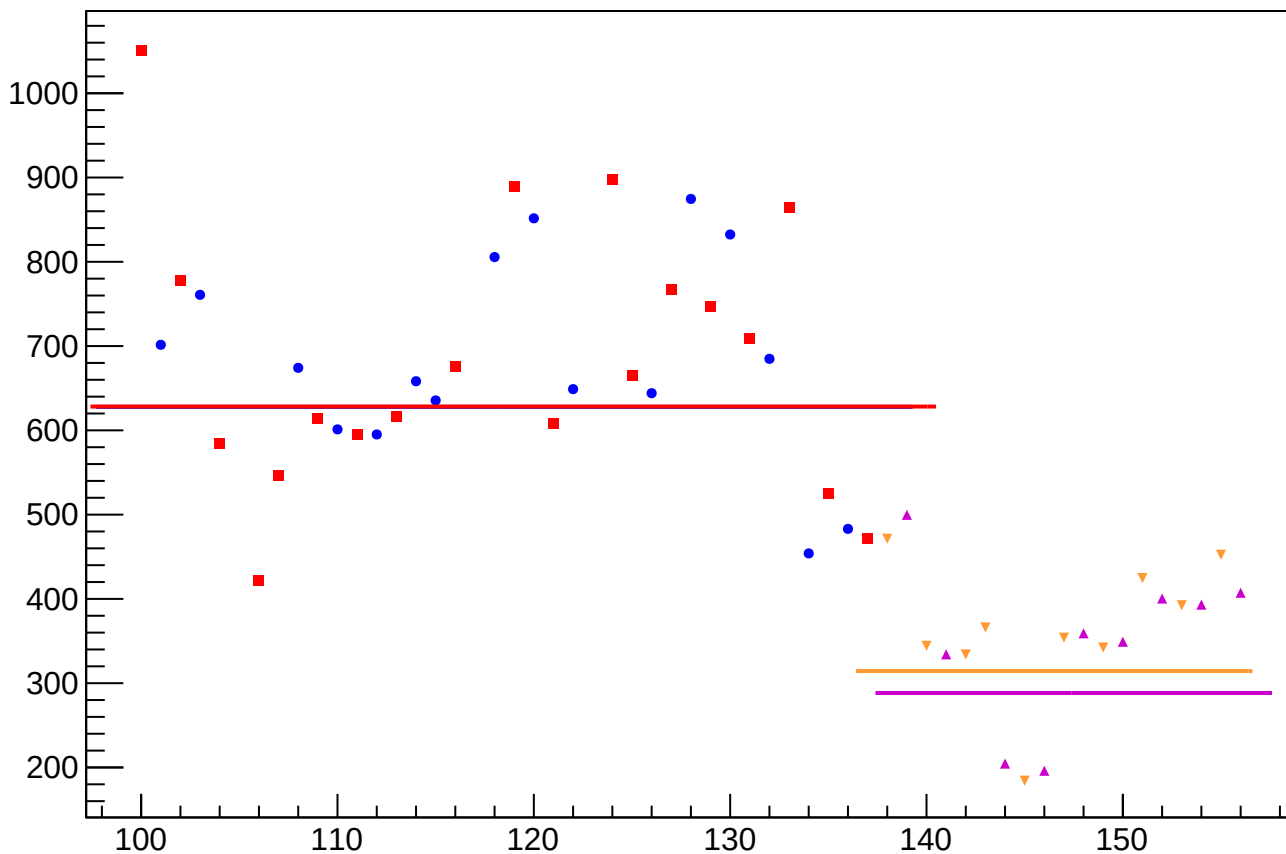
Right: -74.835 $\pm$ 168.388 χ^2 /NDF: 44.3/34

In: -66.407 $\pm$ 99.694 χ^2 /NDF:33.5/24

Out: 294.097 $\pm$ 105.724 χ^2 /NDF:57.7/28

All: 103.272 $\pm$ 72.533 χ^2 /NDF: 97.4/53

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 627.896 $\pm$ 0.170 χ^2 /NDF: 566795.7/15

Left Out: 314.422 $\pm$ 0.084 χ^2 /NDF: 1373966.3/9

Right Out: 628.250 $\pm$ 0.167 χ^2 /NDF: 570979.3/18

Left In: 288.382 $\pm$ 0.077 χ^2 /NDF: 1512199.3/8

Left: 300.411 $\pm$ 0.057 χ^2 /NDF: 2938347.2/18

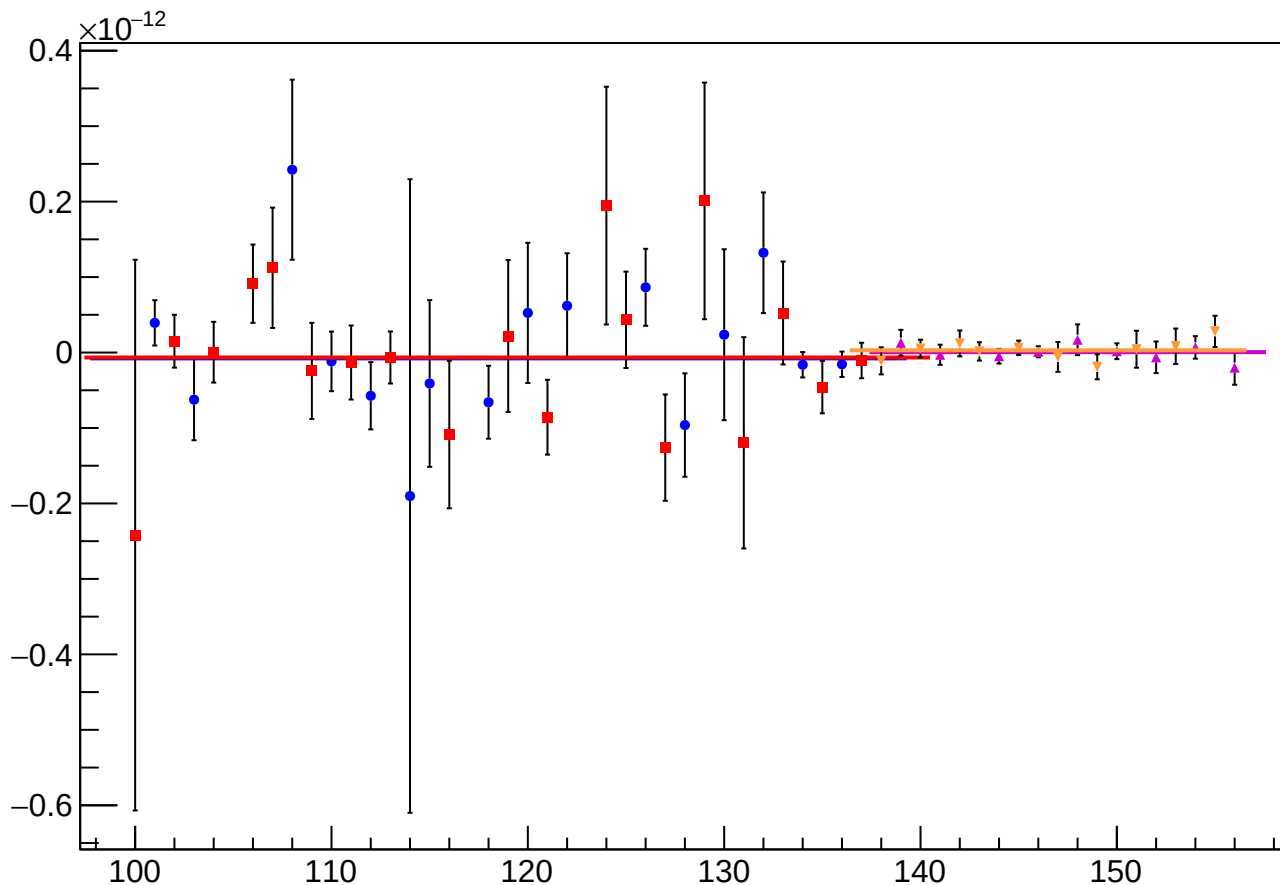
Right: 628.076 $\pm$ 0.119 χ^2 /NDF: 1137777.3/34

In: 346.818 $\pm$ 0.070 χ^2 /NDF: 5384171.5/24

Out: 377.389 $\pm$ 0.075 χ^2 /NDF: 4771290.4/28

All: 361.207 $\pm$ 0.051 χ^2 /NDF: 10243974.4/53

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:4.5/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 20.0/18

Left In: 0.000+/-0.000 χ^2 /NDF:2.7/8

Left: 0.000+/-0.000 χ^2 /NDF: 7.3/18

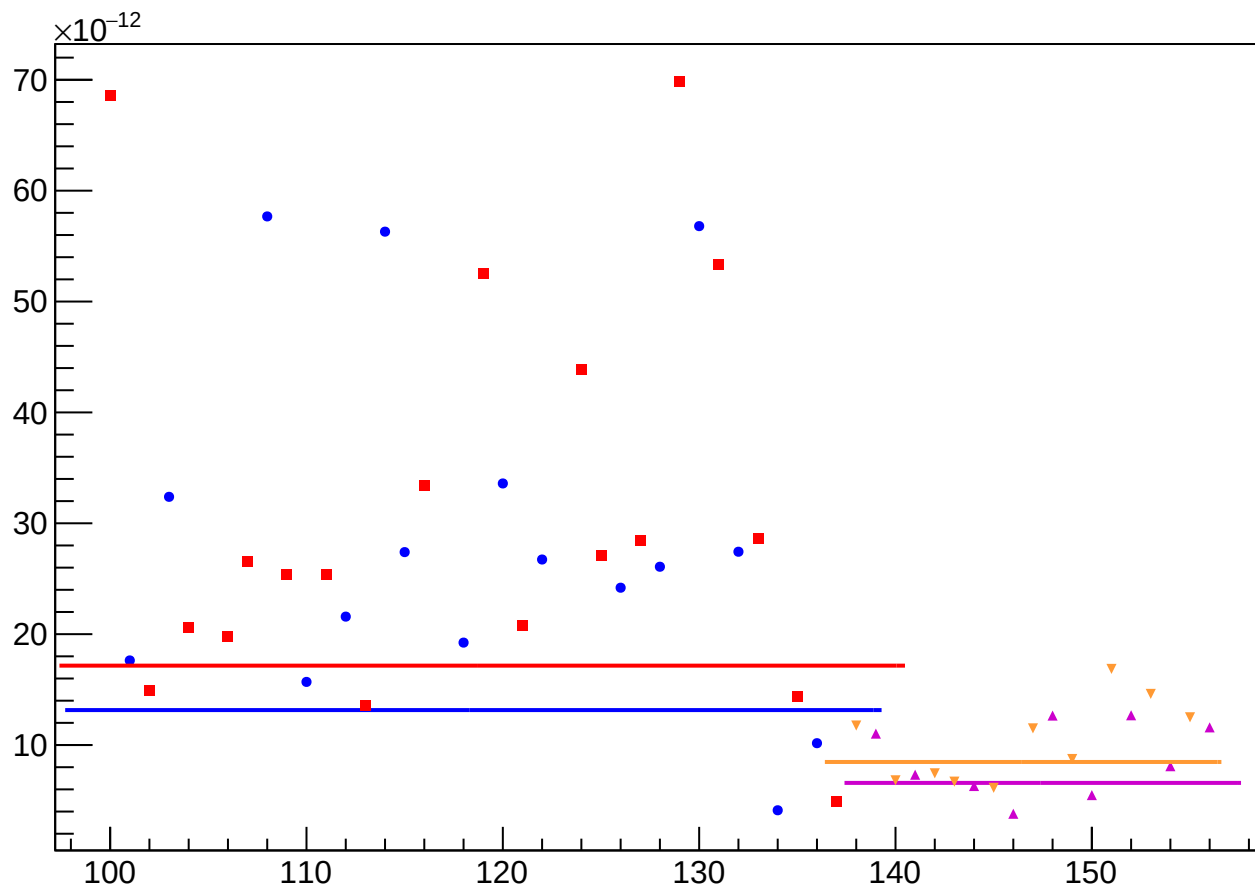
Right: -0.000+/-0.000 χ^2 /NDF: 41.0/34

In: -0.000+/-0.000 χ^2 /NDF:24.3/24

Out: 0.000+/-0.000 χ^2 /NDF:25.1/28

All: 0.000+/-0.000 χ^2 /NDF: 49.5/53

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 : 771809.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1646197.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 916463.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1866365.2/18

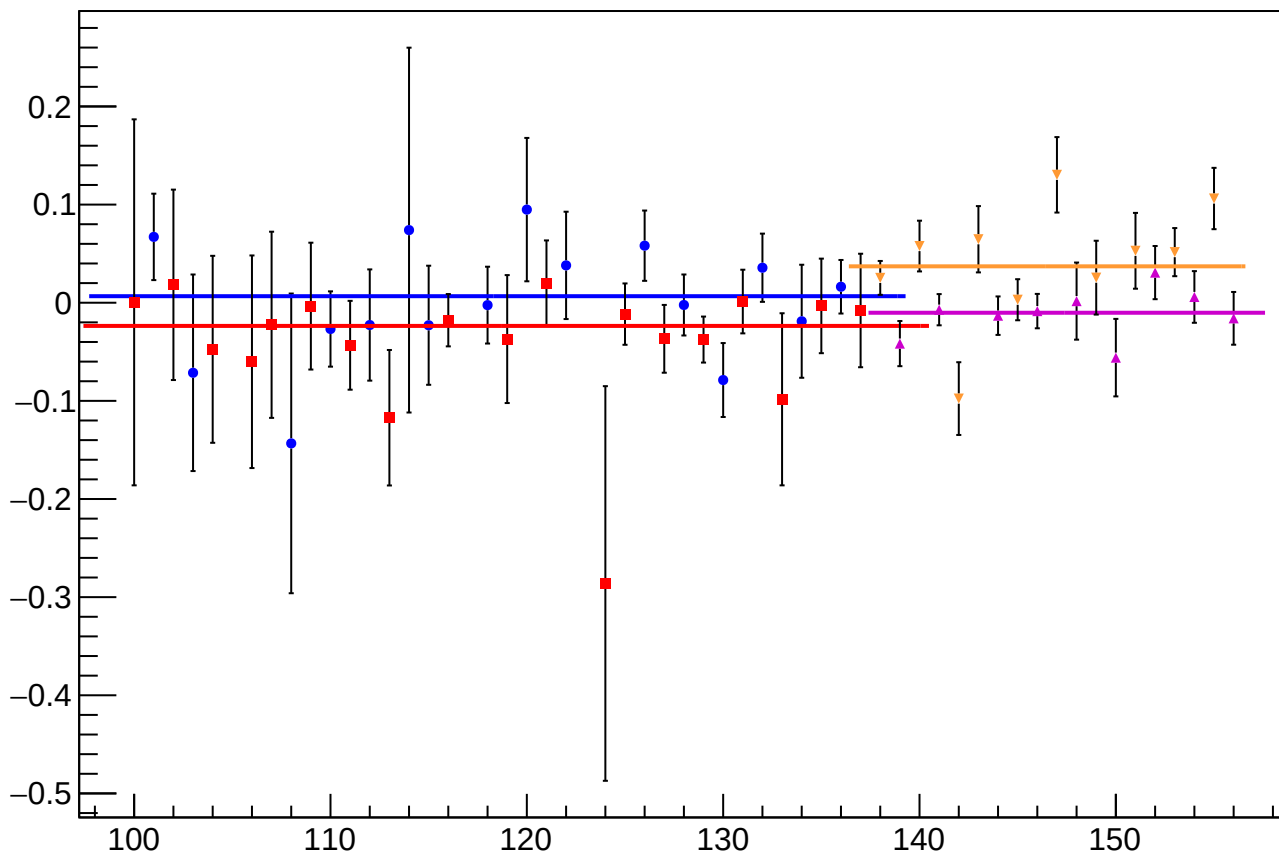
Right: 0.000+/-0.000 χ^2/NDF : 3874616.1/34

In: 0.000+/-0.000 χ^2/NDF : 3821670.6/24

Out: 0.000+/-0.000 χ^2/NDF : 3385988.8/28

All: 0.000+/-0.000 χ^2/NDF : 7465821.8/53

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: 0.037 ± 0.009 $\chi^2/\text{NDF}: 29.0/9$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.010 ± 0.008 $\chi^2/\text{NDF}: 6.1/8$

Left: 0.011 ± 0.006 $\chi^2/\text{NDF}: 52.0/18$

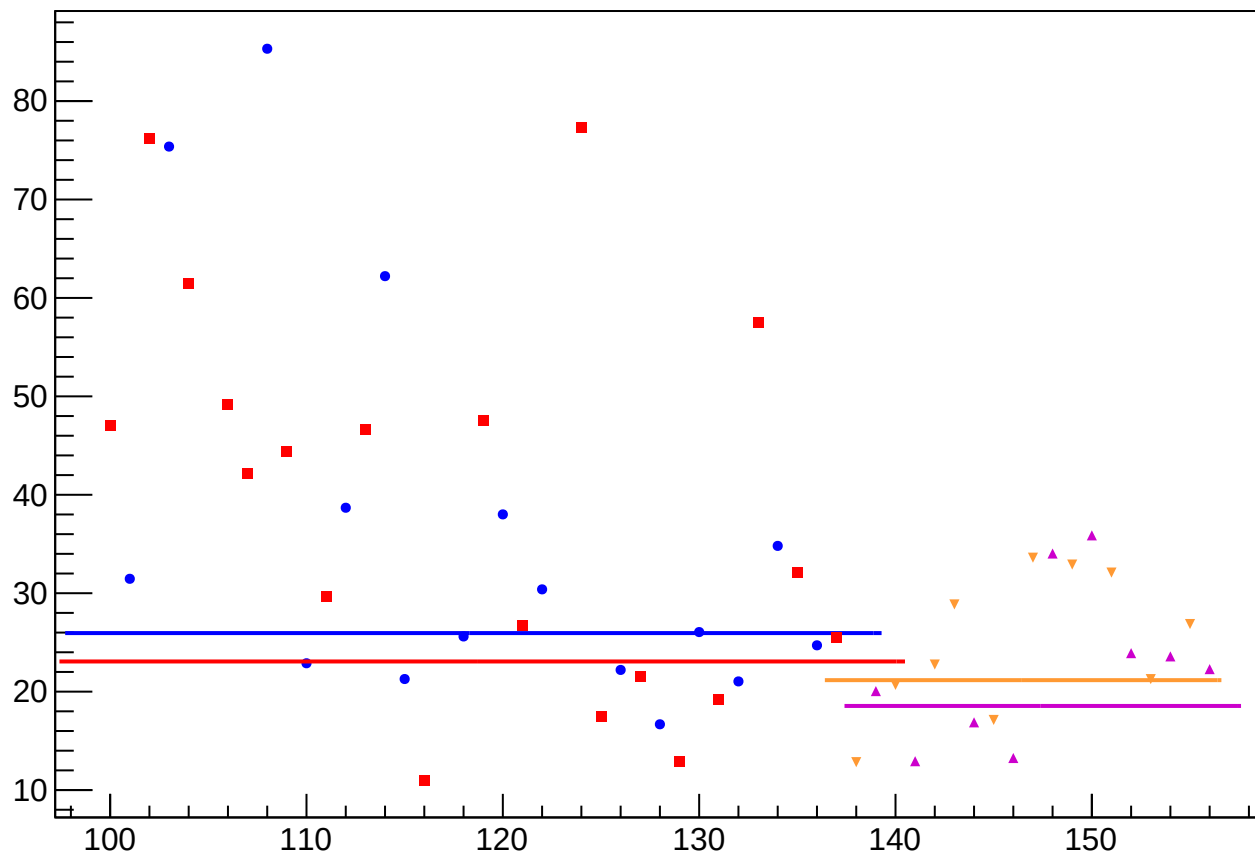
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 22.6/24$

Out: 0.013 ± 0.007 $\chi^2/\text{NDF}: 56.5/28$

All: 0.003 ± 0.005 $\chi^2/\text{NDF}: 82.8/53$

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: 21.167 $\pm$ 0.006 χ^2/NDF : 1280375.3/9

Right Out: 23.065 $\pm$ 0.007 χ^2/NDF : 3360857.8/18

Left In: 18.546 $\pm$ 0.005 χ^2/NDF : 1340775.7/8

Left: 19.699 $\pm$ 0.004 χ^2/NDF : 2724890.9/18

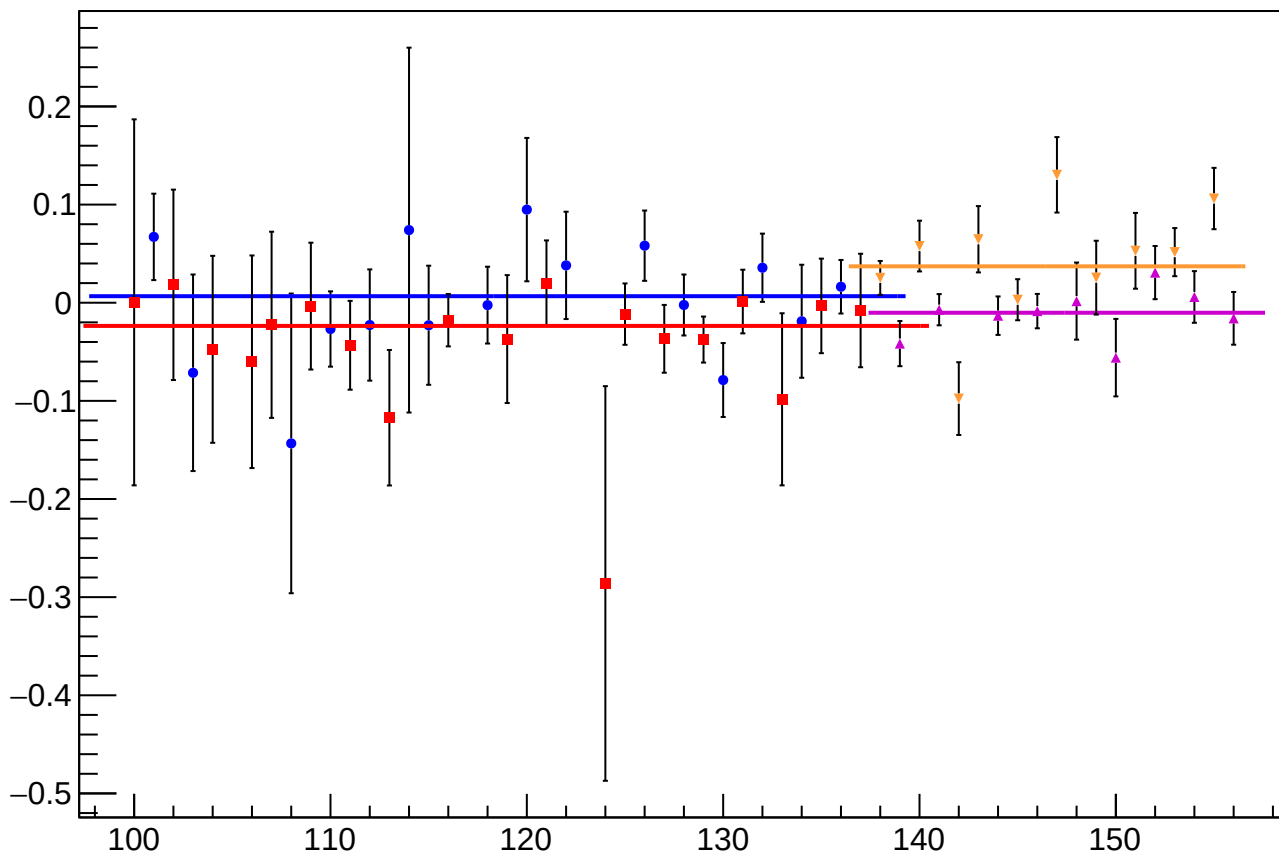
Right: 24.427 $\pm$ 0.005 χ^2/NDF : 4813744.3/34

In: 20.922 $\pm$ 0.004 χ^2/NDF : 3326577.0/24

Out: 21.930 $\pm$ 0.005 χ^2/NDF : 4680312.6/28

All: 21.397 $\pm$ 0.003 χ^2/NDF : 8031136.7/53

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: 0.037 ± 0.009 $\chi^2/\text{NDF}: 29.0/9$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.010 ± 0.008 $\chi^2/\text{NDF}: 6.1/8$

Left: 0.011 ± 0.006 $\chi^2/\text{NDF}: 52.0/18$

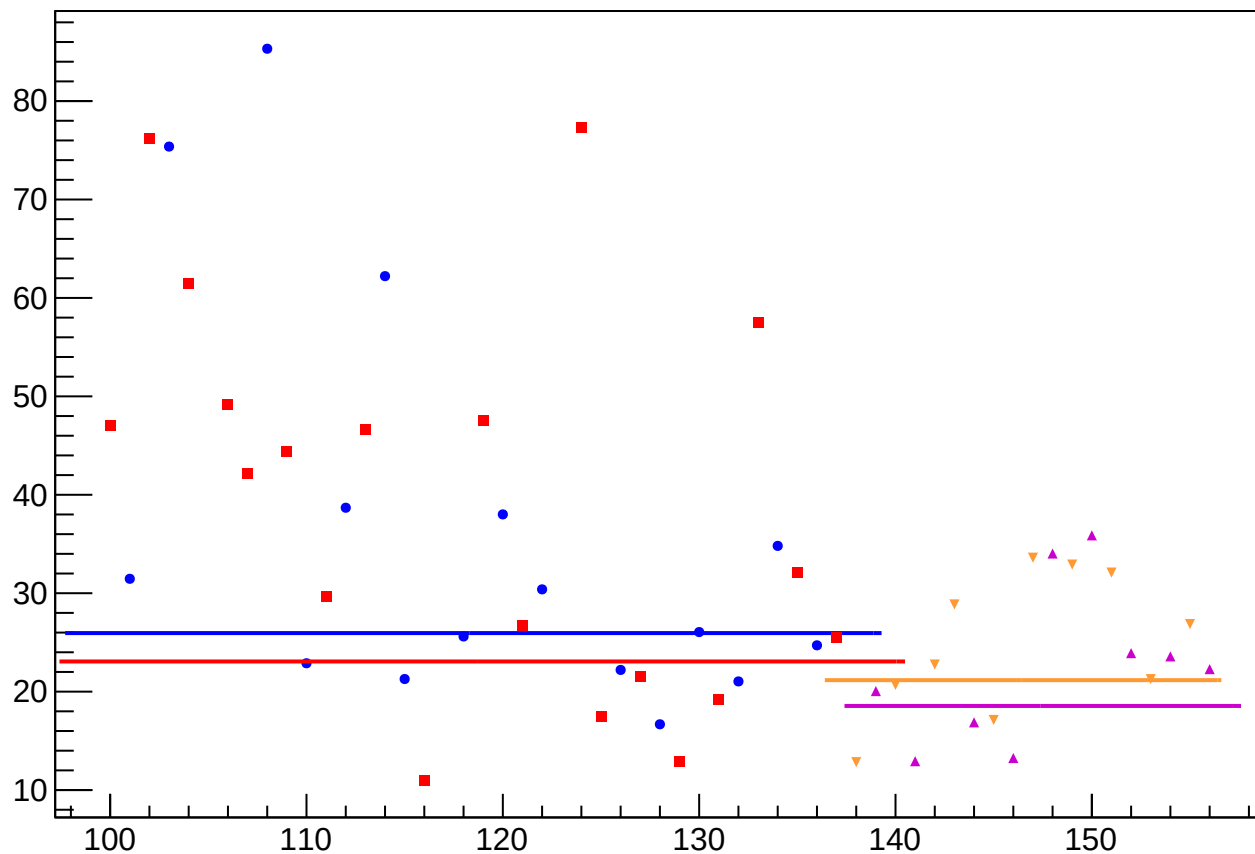
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 22.6/24$

Out: 0.013 ± 0.007 $\chi^2/\text{NDF}: 56.5/28$

All: 0.003 ± 0.005 $\chi^2/\text{NDF}: 82.8/53$

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: 21.167 $\pm$ 0.006 χ^2 /NDF:1280375.3/9

Right Out: 23.065 $\pm$ 0.007 χ^2 /NDF: 3360857.8/18

Left In: 18.546 $\pm$ 0.005 χ^2 /NDF:1340775.7/8

Left: 19.699 $\pm$ 0.004 χ^2 /NDF: 2724890.9/18

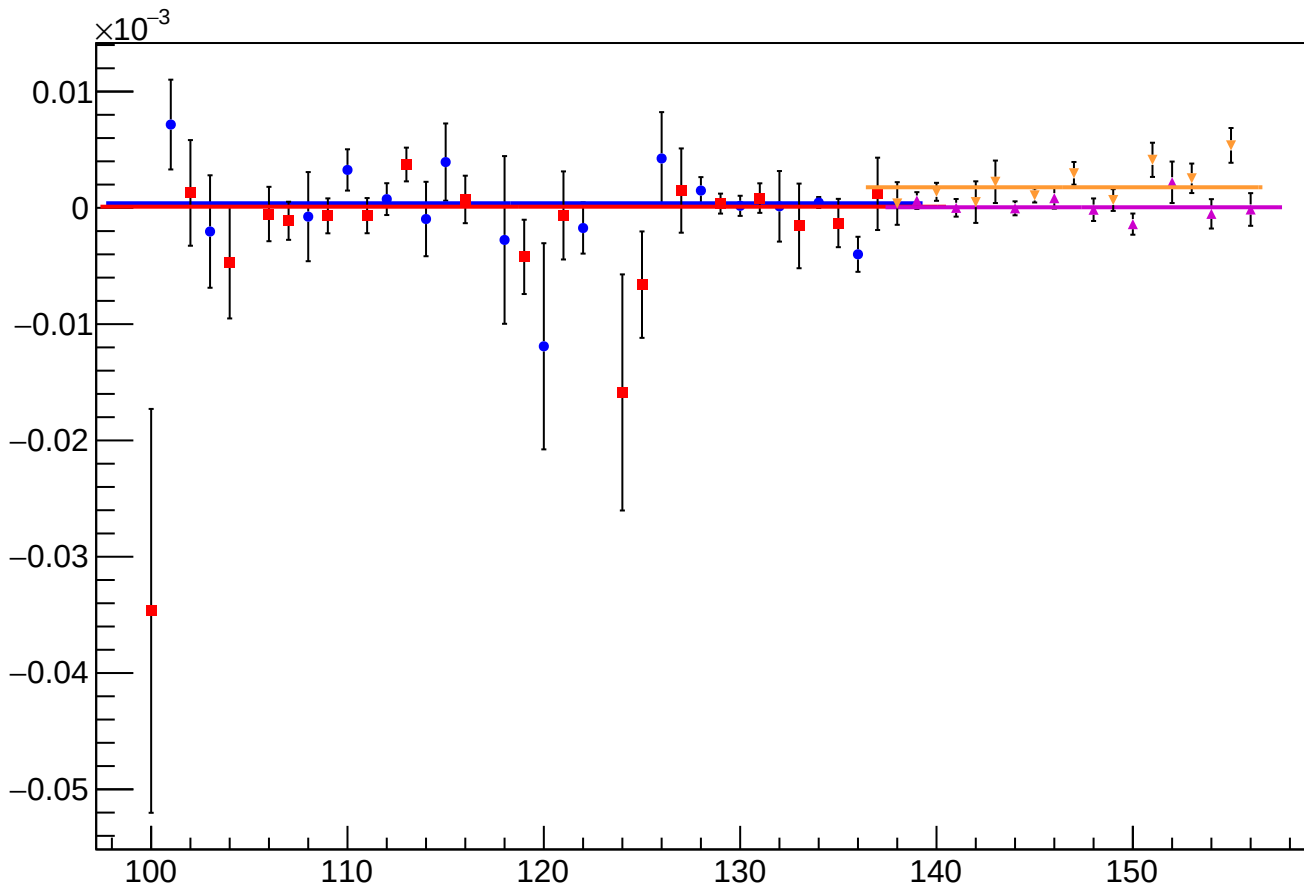
Right: 24.427 $\pm$ 0.005 χ^2 /NDF: 4813744.3/34

In: 20.922 $\pm$ 0.004 χ^2 /NDF:3326577.0/24

Out: 21.930 $\pm$ 0.005 χ^2 /NDF:4680312.6/28

All: 21.397 $\pm$ 0.003 χ^2 /NDF: 8031136.7/53

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 : 14.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 20.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.7/8

Left: 0.000+/-0.000 χ^2/NDF : 34.9/18

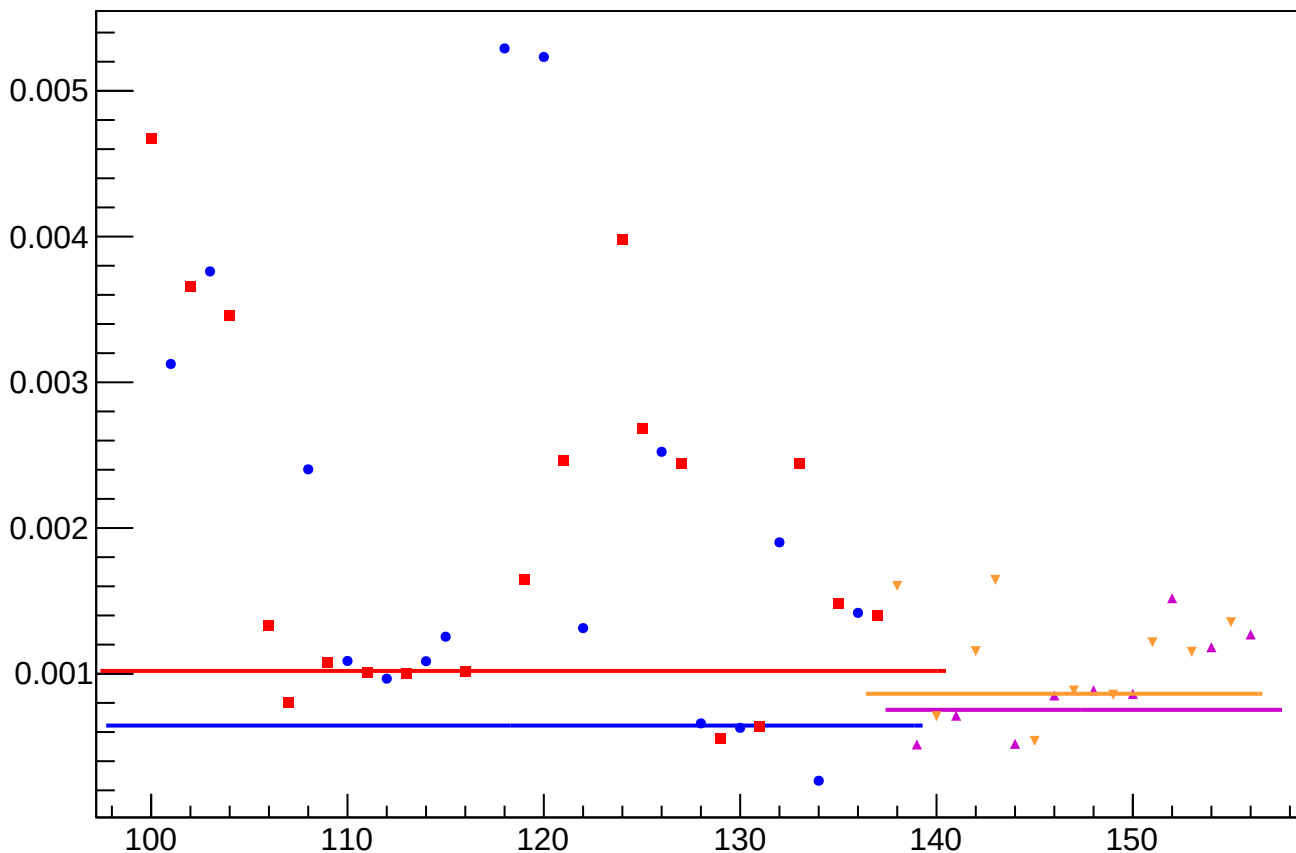
Right: 0.000+/-0.000 χ^2/NDF : 41.6/34

In: 0.000+/-0.000 χ^2/NDF : 27.1/24

Out: 0.000+/-0.000 χ^2/NDF : 43.7/28

All: 0.000+/-0.000 χ^2/NDF : 78.7/53

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 : 1820687.1/9

Right Out: 0.001+/-0.000 χ^2/NDF : 3662501.2/18

Left In: 0.001+/-0.000 χ^2/NDF : 1486402.0/8

Left: 0.001+/-0.000 χ^2/NDF : 3429413.8/18

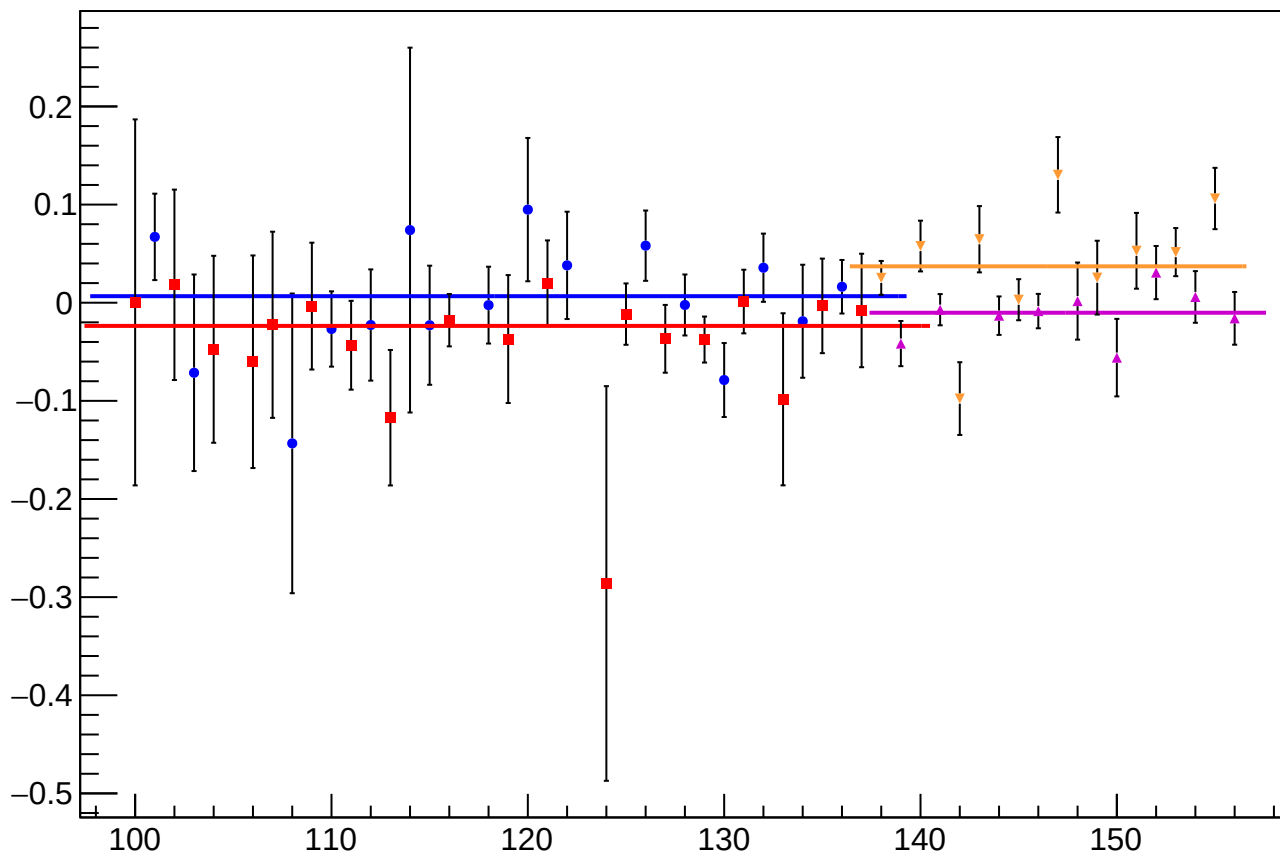
Right: 0.001+/-0.000 χ^2/NDF : 11121544.1/34

In: 0.001+/-0.000 χ^2/NDF : 8176228.7/24

Out: 0.001+/-0.000 χ^2/NDF : 5639795.4/28

All: 0.001+/-0.000 χ^2/NDF : 14557604.0/53

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: 0.037 ± 0.009 $\chi^2/\text{NDF}: 29.0/9$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.010 ± 0.008 $\chi^2/\text{NDF}: 6.1/8$

Left: 0.011 ± 0.006 $\chi^2/\text{NDF}: 52.0/18$

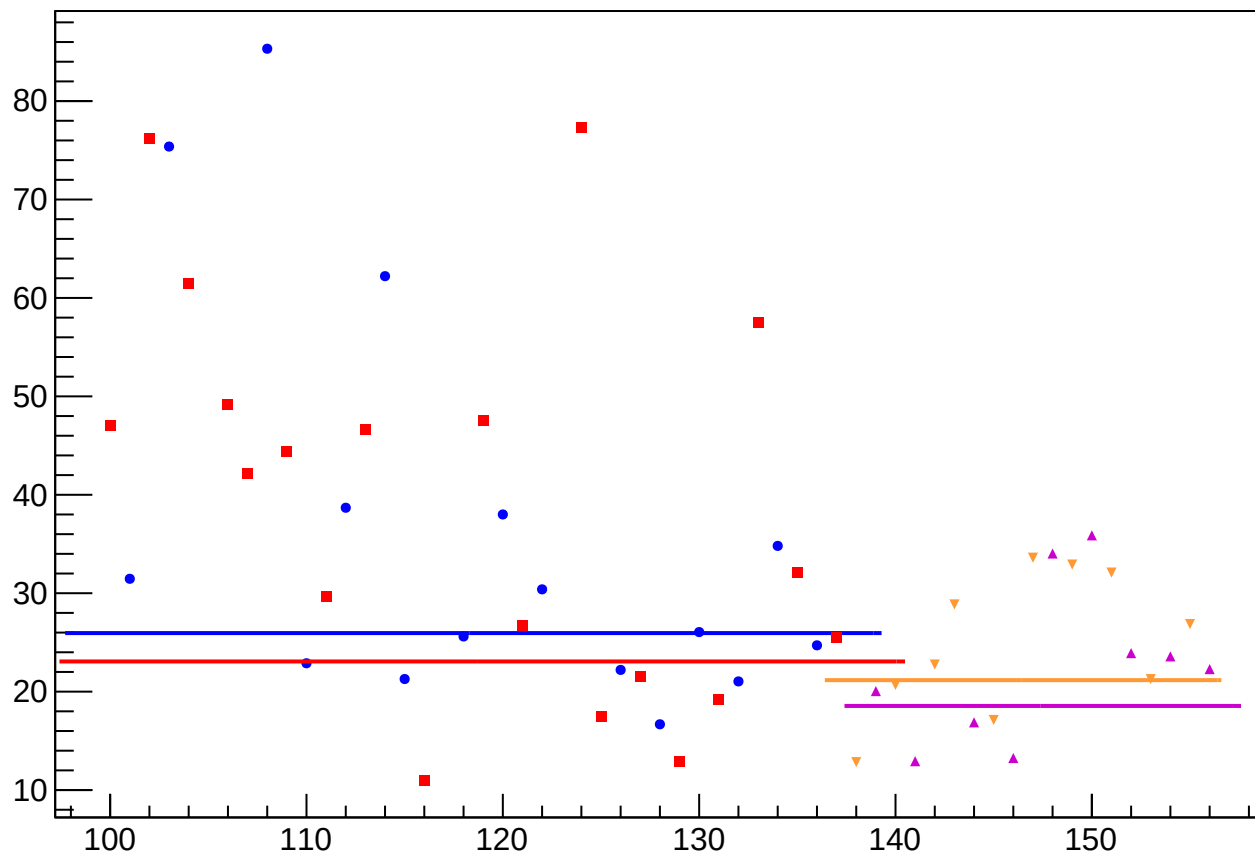
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 22.6/24$

Out: 0.013 ± 0.007 $\chi^2/\text{NDF}: 56.5/28$

All: 0.003 ± 0.005 $\chi^2/\text{NDF}: 82.8/53$

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: 21.167 $\pm$ 0.006 χ^2 /NDF: 1280427.7/9

Right Out: 23.066 $\pm$ 0.007 χ^2 /NDF: 3360688.5/18

Left In: 18.547 $\pm$ 0.005 χ^2 /NDF: 1340865.3/8

Left: 19.699 $\pm$ 0.004 χ^2 /NDF: 2725052.3/18

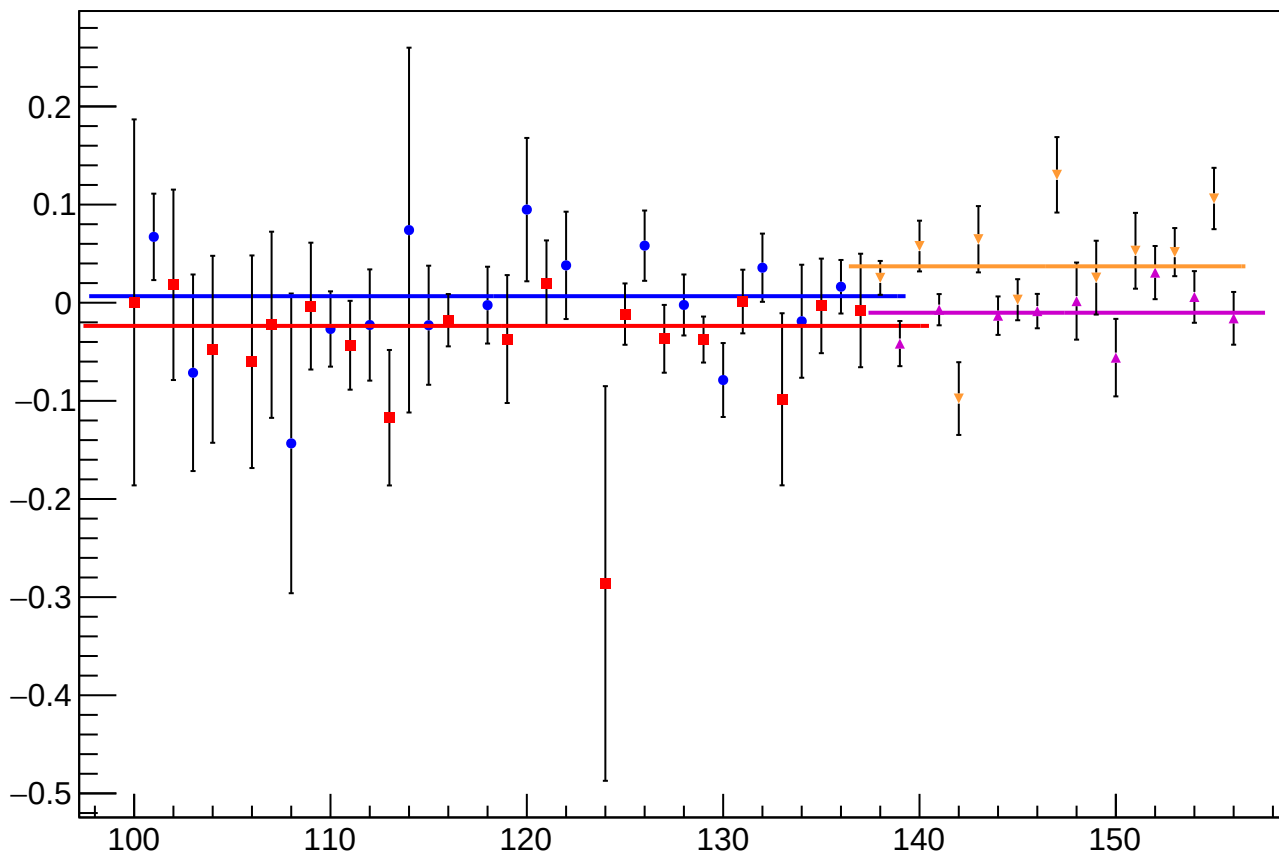
Right: 24.428 $\pm$ 0.005 χ^2 /NDF: 4813518.6/34

In: 20.922 $\pm$ 0.004 χ^2 /NDF: 3326622.1/24

Out: 21.931 $\pm$ 0.005 χ^2 /NDF: 4680192.8/28

All: 21.397 $\pm$ 0.003 χ^2 /NDF: 8031072.5/53

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: 0.037 ± 0.009 $\chi^2/\text{NDF}: 29.0/9$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.010 ± 0.008 $\chi^2/\text{NDF}: 6.1/8$

Left: 0.011 ± 0.006 $\chi^2/\text{NDF}: 52.0/18$

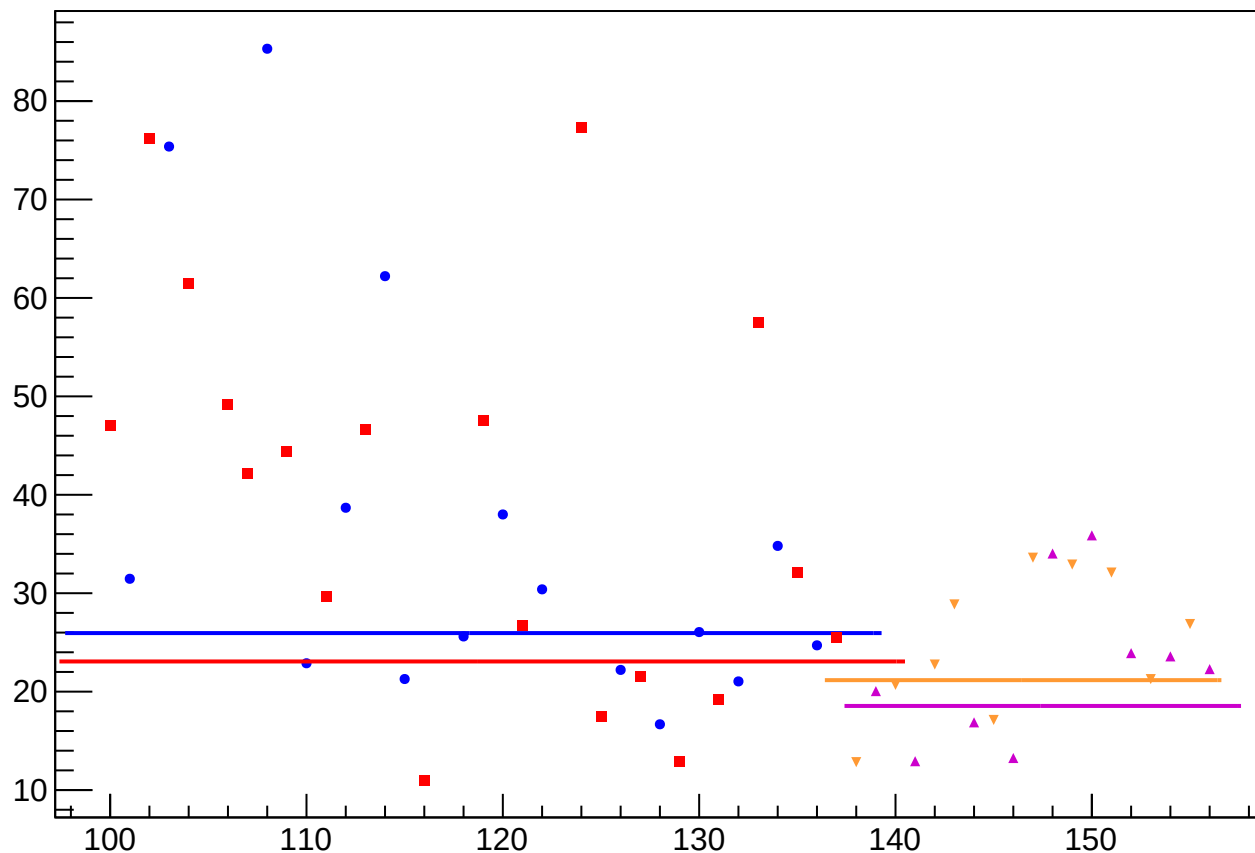
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 22.6/24$

Out: 0.013 ± 0.007 $\chi^2/\text{NDF}: 56.5/28$

All: 0.003 ± 0.005 $\chi^2/\text{NDF}: 82.8/53$

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: 21.167 $\pm$ 0.006 χ^2 /NDF:1280427.7/9

Right Out: 23.066 $\pm$ 0.007 χ^2 /NDF: 3360688.5/18

Left In: 18.547 $\pm$ 0.005 χ^2 /NDF:1340865.3/8

Left: 19.699 $\pm$ 0.004 χ^2 /NDF: 2725052.3/18

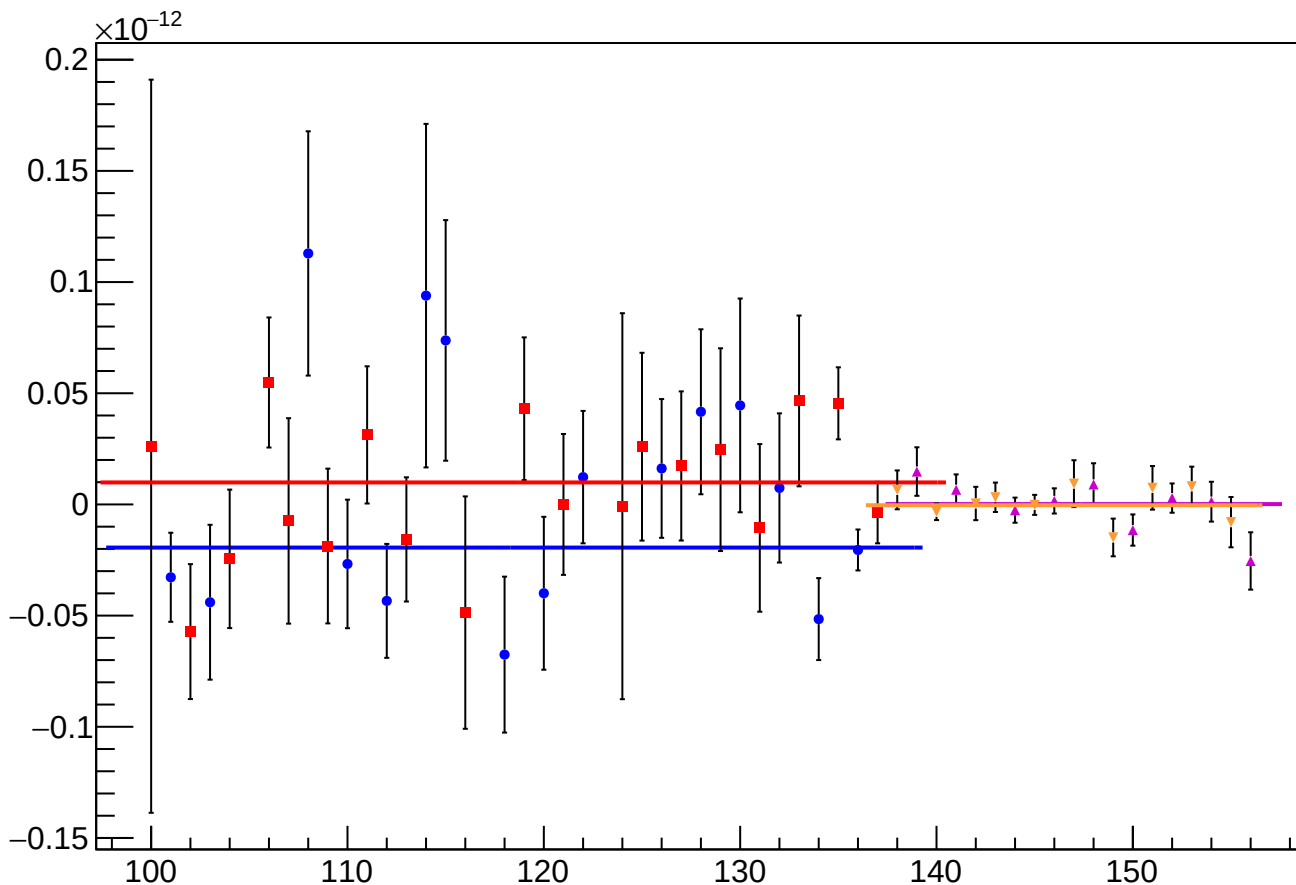
Right: 24.428 $\pm$ 0.005 χ^2 /NDF: 4813518.6/34

In: 20.922 $\pm$ 0.004 χ^2 /NDF:3326622.1/24

Out: 21.931 $\pm$ 0.005 χ^2 /NDF:4680192.8/28

All: 21.397 $\pm$ 0.003 χ^2 /NDF: 8031072.5/53

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 : 7.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 20.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.7/8

Left: -0.000+/-0.000 χ^2/NDF : 18.1/18

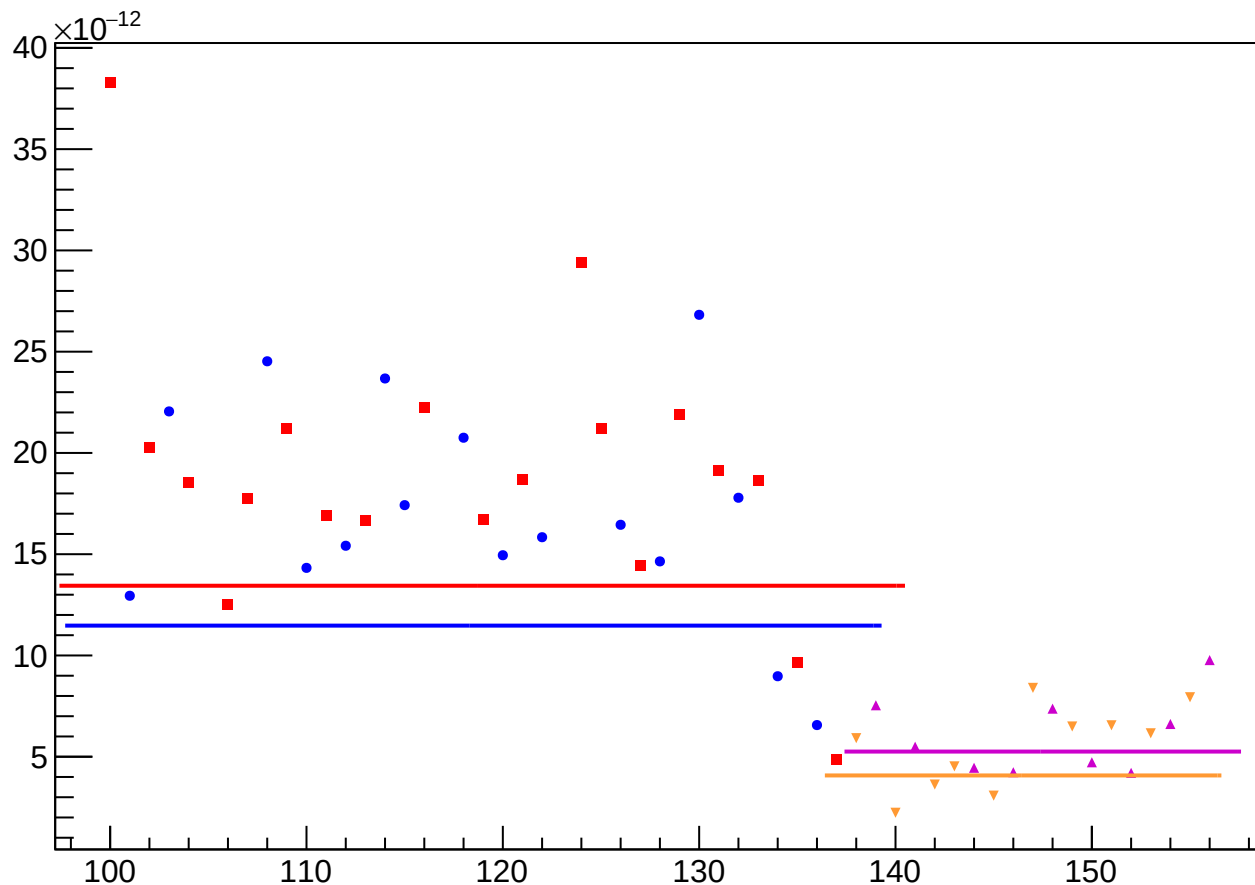
Right: -0.000+/-0.000 χ^2/NDF : 56.4/34

In: -0.000+/-0.000 χ^2/NDF : 45.4/24

Out: 0.000+/-0.000 χ^2/NDF : 29.8/28

All: -0.000+/-0.000 χ^2/NDF : 76.2/53

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 : 1661271.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1672848.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 648328.5/8

Left: 0.000+/-0.000 χ^2/NDF : 2575737.8/18

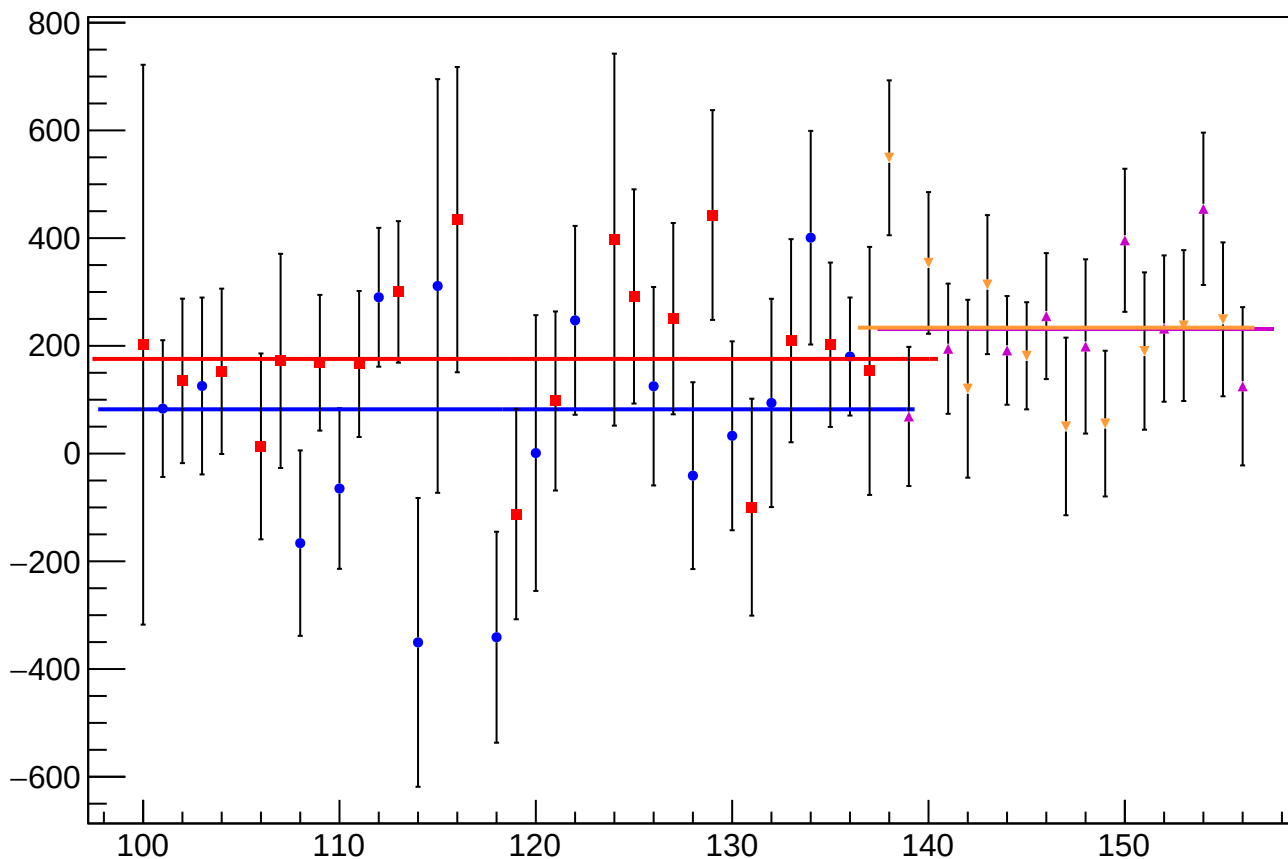
Right: 0.000+/-0.000 χ^2/NDF : 3365640.7/34

In: 0.000+/-0.000 χ^2/NDF : 4069113.9/24

Out: 0.000+/-0.000 χ^2/NDF : 6822021.9/28

All: 0.000+/-0.000 χ^2/NDF : 11233299.8/53

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.196 $\pm$ 42.133 χ^2/NDF : 18.4/15

Left Out: 233.785 $\pm$ 42.943 χ^2/NDF : 9.8/9

Right Out: 175.732 $\pm$ 40.673 χ^2/NDF : 9.9/18

Left In: 231.269 $\pm$ 42.831 χ^2/NDF : 6.5/8

Left: 232.523 $\pm$ 30.325 χ^2/NDF : 16.3/18

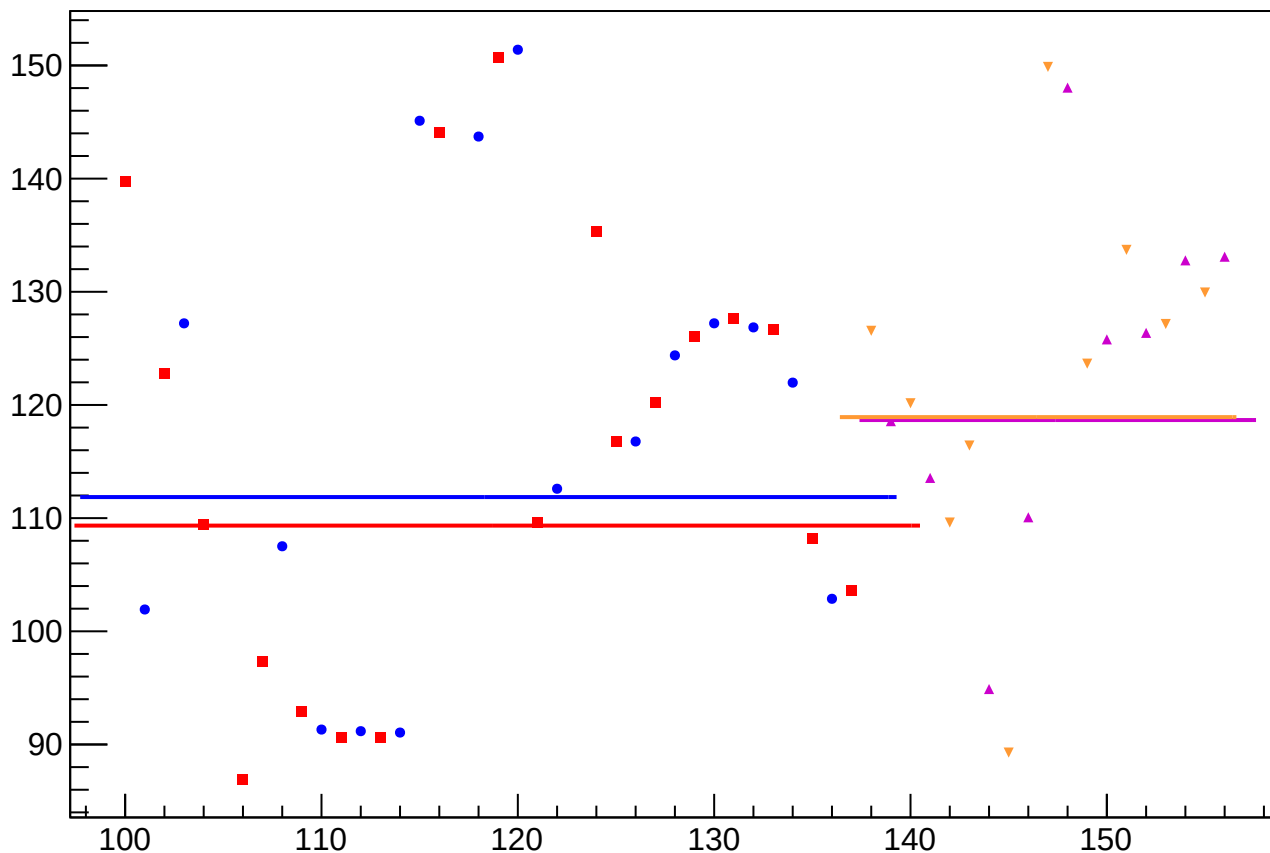
Right: 130.613 $\pm$ 29.263 χ^2/NDF : 30.8/34

In: 155.508 $\pm$ 30.036 χ^2/NDF : 31.0/24

Out: 203.183 $\pm$ 29.530 χ^2/NDF : 20.7/28

All: 179.751 $\pm$ 21.058 χ^2/NDF : 52.9/53

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: 118.926 $\pm$ 0.030 χ^2 /NDF:302705.2/9

Right Out: 109.340 $\pm$ 0.029 χ^2 /NDF: 367219.9/18

Left In: 118.668 $\pm$ 0.030 χ^2 /NDF:242650.6/8

Left: 118.797 $\pm$ 0.021 χ^2 /NDF: 545392.0/18

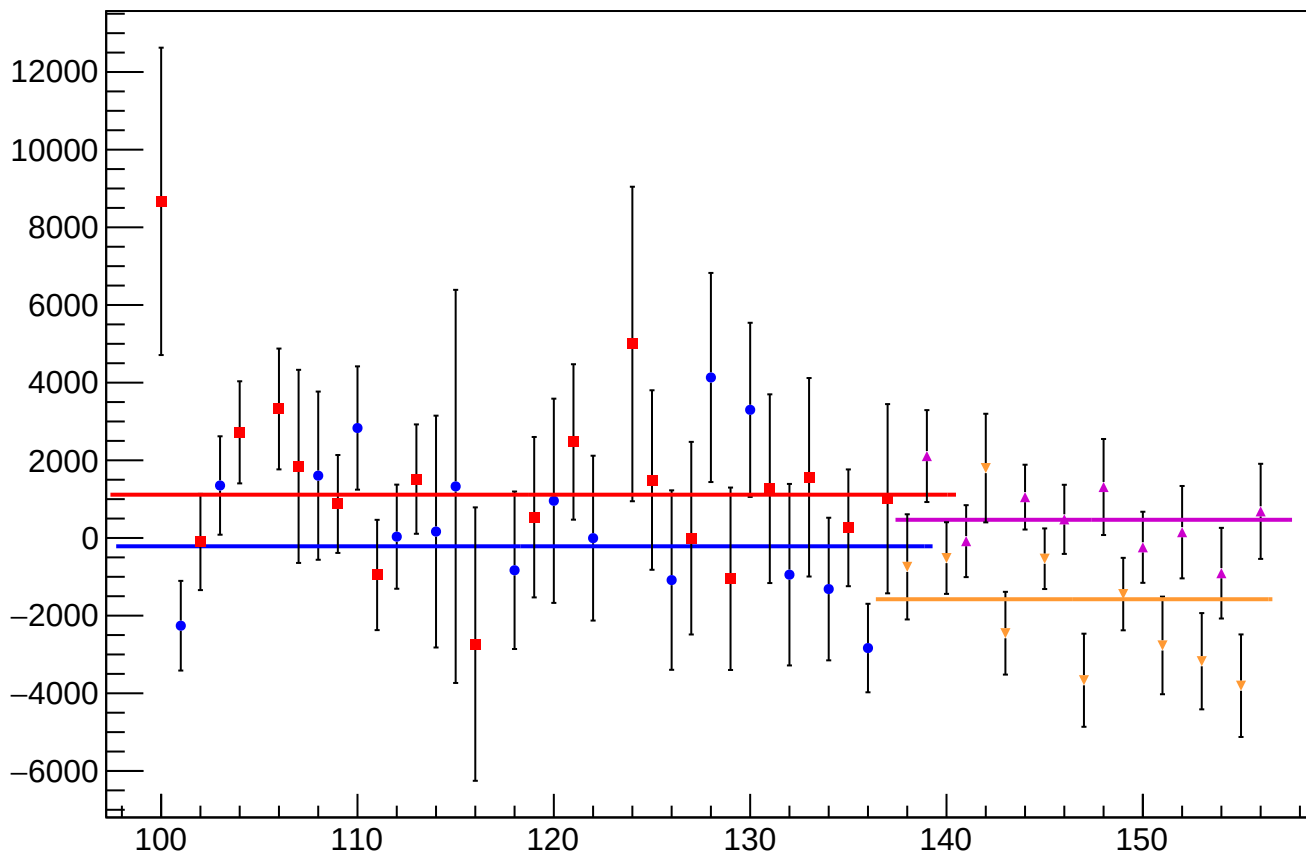
Right: 110.557 $\pm$ 0.021 χ^2 /NDF: 676952.3/34

In: 115.209 $\pm$ 0.021 χ^2 /NDF:574339.5/24

Out: 113.873 $\pm$ 0.021 χ^2 /NDF:722457.1/28

All: 114.530 $\pm$ 0.015 χ^2 /NDF: 1298808.6/53

asym_sam_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -214.187 $\pm$ 443.962 χ^2 /NDF: 20.4/15

Left Out: -1577.543 $\pm$ 343.905 χ^2 /NDF:18.4/9

Right Out: 1114.700 $\pm$ 423.039 χ^2 /NDF: 14.5/18

Left In: 468.221 $\pm$ 342.351 χ^2 /NDF:5.3/8

Left: -550.029 $\pm$ 242.626 χ^2 /NDF: 41.5/18

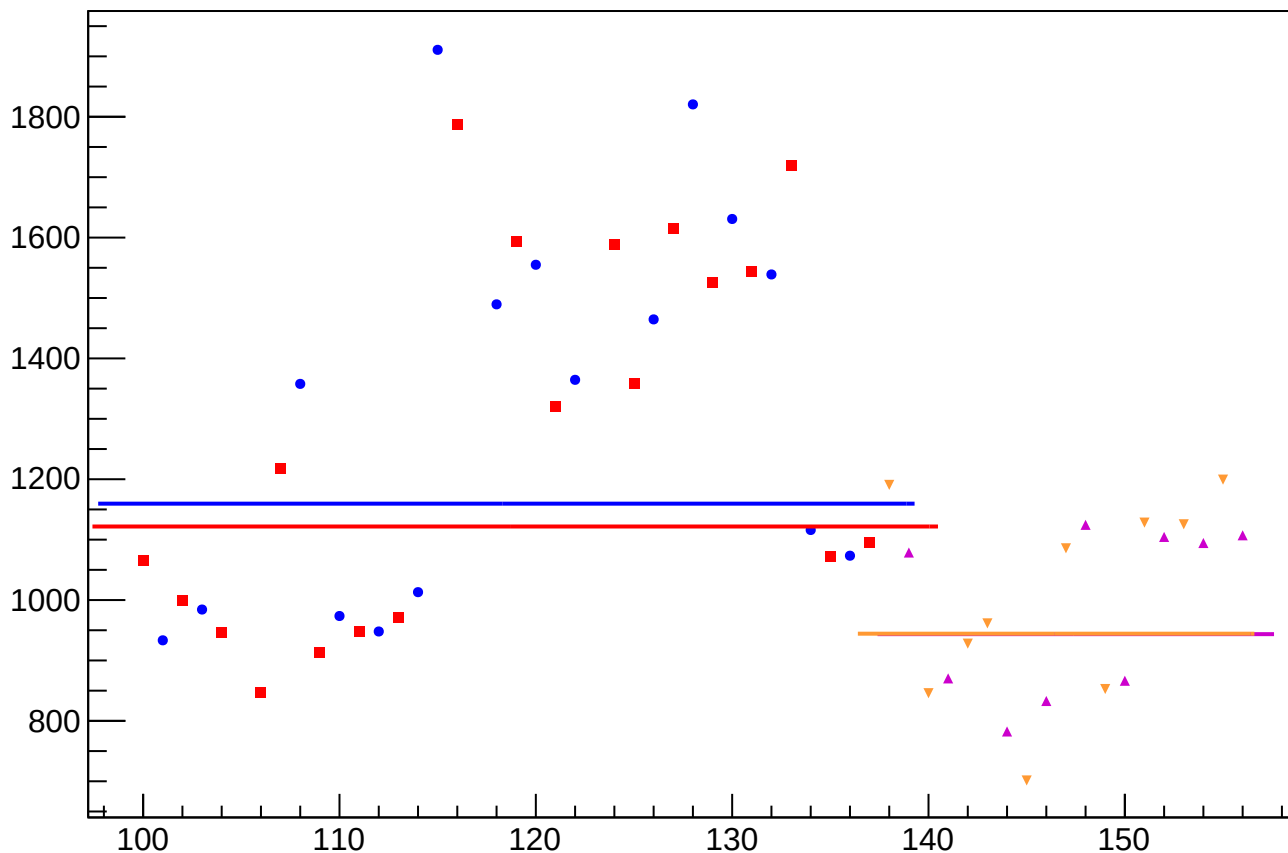
Right: 482.307 $\pm$ 306.263 χ^2 /NDF: 39.7/34

In: 213.752 $\pm$ 271.107 χ^2 /NDF:27.2/24

Out: -506.282 $\pm$ 266.852 χ^2 /NDF:57.4/28

All: -151.960 $\pm$ 190.180 χ^2 /NDF: 88.2/53

asym_sam_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1159.567 $\pm$ 0.314 χ^2 /NDF: 683693.3/15

Left Out: 944.318 $\pm$ 0.243 χ^2 /NDF: 490758.0/9

Right Out: 1121.752 $\pm$ 0.299 χ^2 /NDF: 782273.3/18

Left In: 943.567 $\pm$ 0.242 χ^2 /NDF: 306748.3/8

Left: 943.941 $\pm$ 0.172 χ^2 /NDF: 797511.1/18

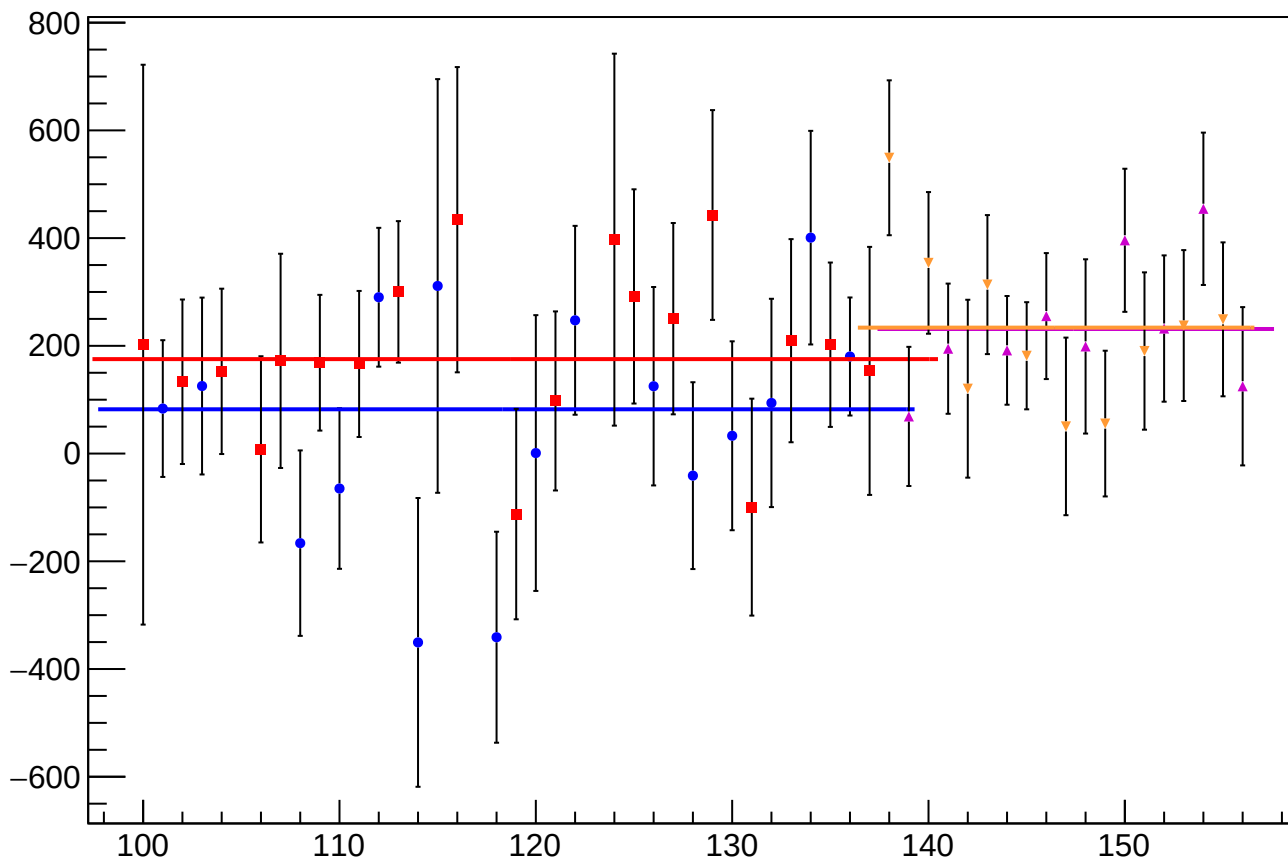
Right: 1139.747 $\pm$ 0.217 χ^2 /NDF: 1473571.5/34

In: 1024.113 $\pm$ 0.192 χ^2 /NDF: 1287321.9/24

Out: 1014.920 $\pm$ 0.189 χ^2 /NDF: 1484870.4/28

All: 1019.444 $\pm$ 0.134 χ^2 /NDF: 2773360.4/53

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: 233.793 $\pm$ 42.943 χ^2 /NDF:9.8/9

Right Out: 175.338 $\pm$ 40.678 χ^2 /NDF: 9.9/18

Left In: 231.270 $\pm$ 42.831 χ^2 /NDF:6.5/8

Left: 232.528 $\pm$ 30.325 χ^2 /NDF: 16.3/18

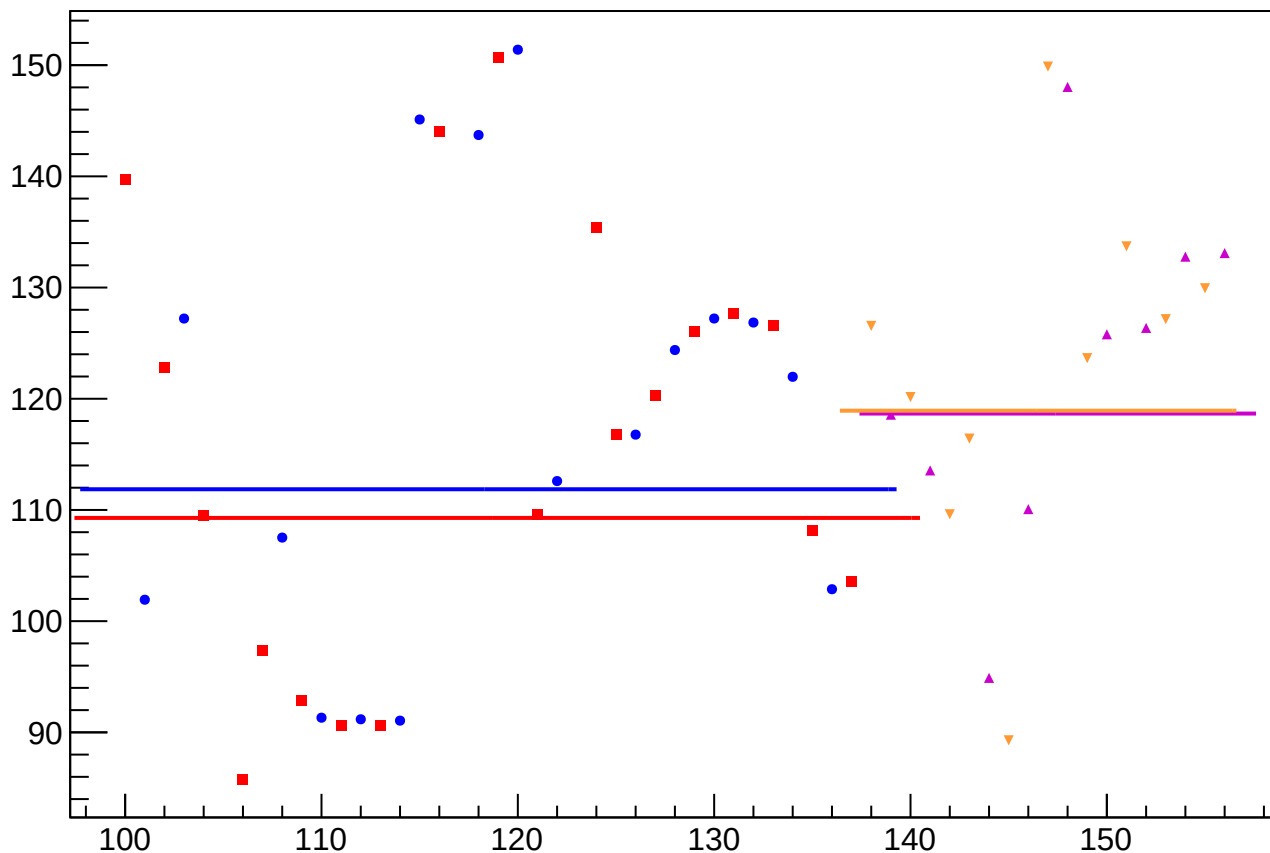
Right: 130.398 $\pm$ 29.265 χ^2 /NDF: 30.8/34

In: 155.503 $\pm$ 30.036 χ^2 /NDF:31.0/24

Out: 202.984 $\pm$ 29.532 χ^2 /NDF:20.8/28

All: 179.645 $\pm$ 21.058 χ^2 /NDF: 53.0/53

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: 118.926 $\pm$ 0.030 χ^2 /NDF:302705.2/9

Right Out: 109.284 $\pm$ 0.029 χ^2 /NDF: 370711.7/18

Left In: 118.668 $\pm$ 0.030 χ^2 /NDF:242650.6/8

Left: 118.797 $\pm$ 0.021 χ^2 /NDF: 545392.0/18

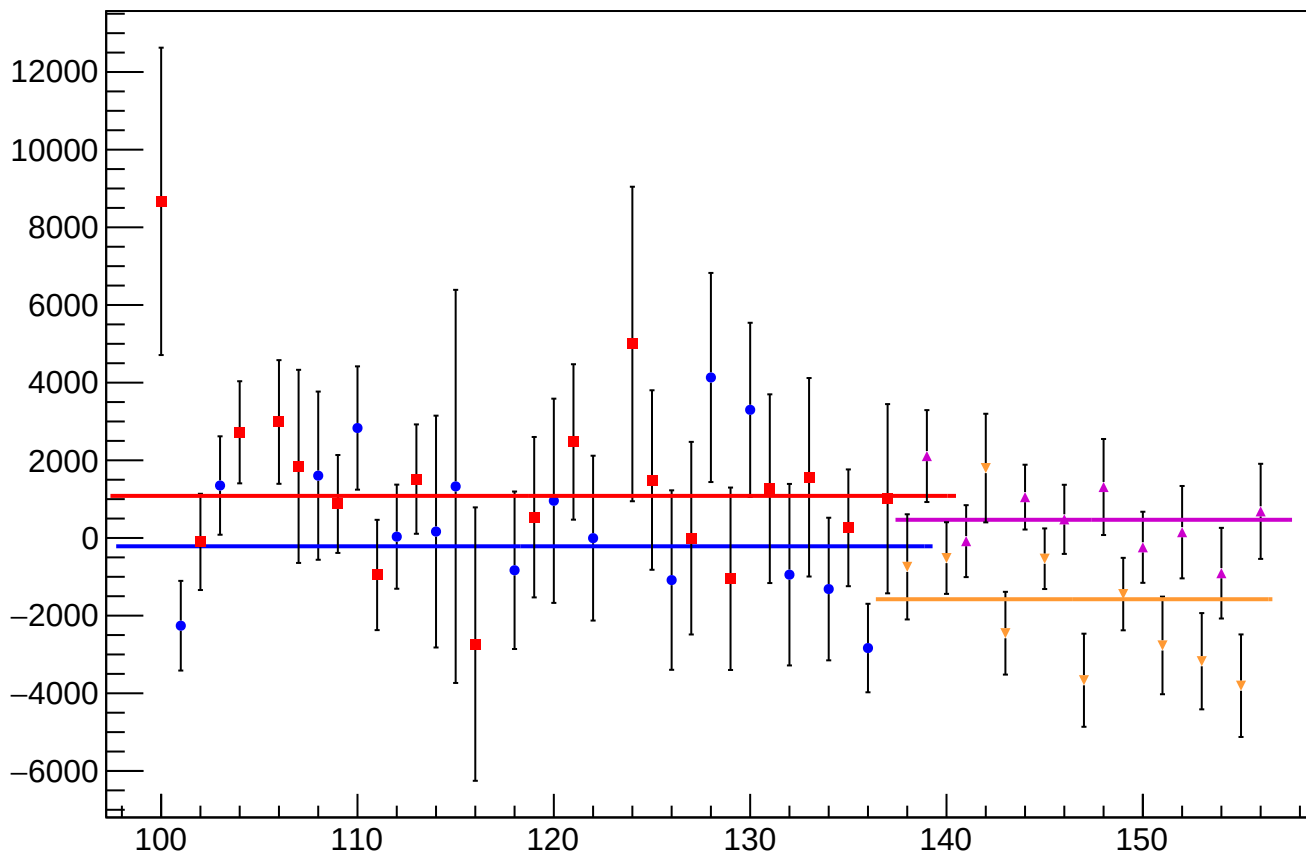
Right: 110.528 $\pm$ 0.021 χ^2 /NDF: 680611.7/34

In: 115.209 $\pm$ 0.021 χ^2 /NDF:574340.4/24

Out: 113.844 $\pm$ 0.021 χ^2 /NDF:726558.8/28

All: 114.515 $\pm$ 0.015 χ^2 /NDF: 1302999.3/53

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: -1577.537 ± 343.905 χ^2/NDF : 18.4/9

Right Out: 1083.943 ± 423.774 χ^2/NDF : 13.9/18

Left In: 468.227 ± 342.351 χ^2/NDF : 5.3/8

Left: -550.023 ± 242.627 χ^2/NDF : 41.5/18

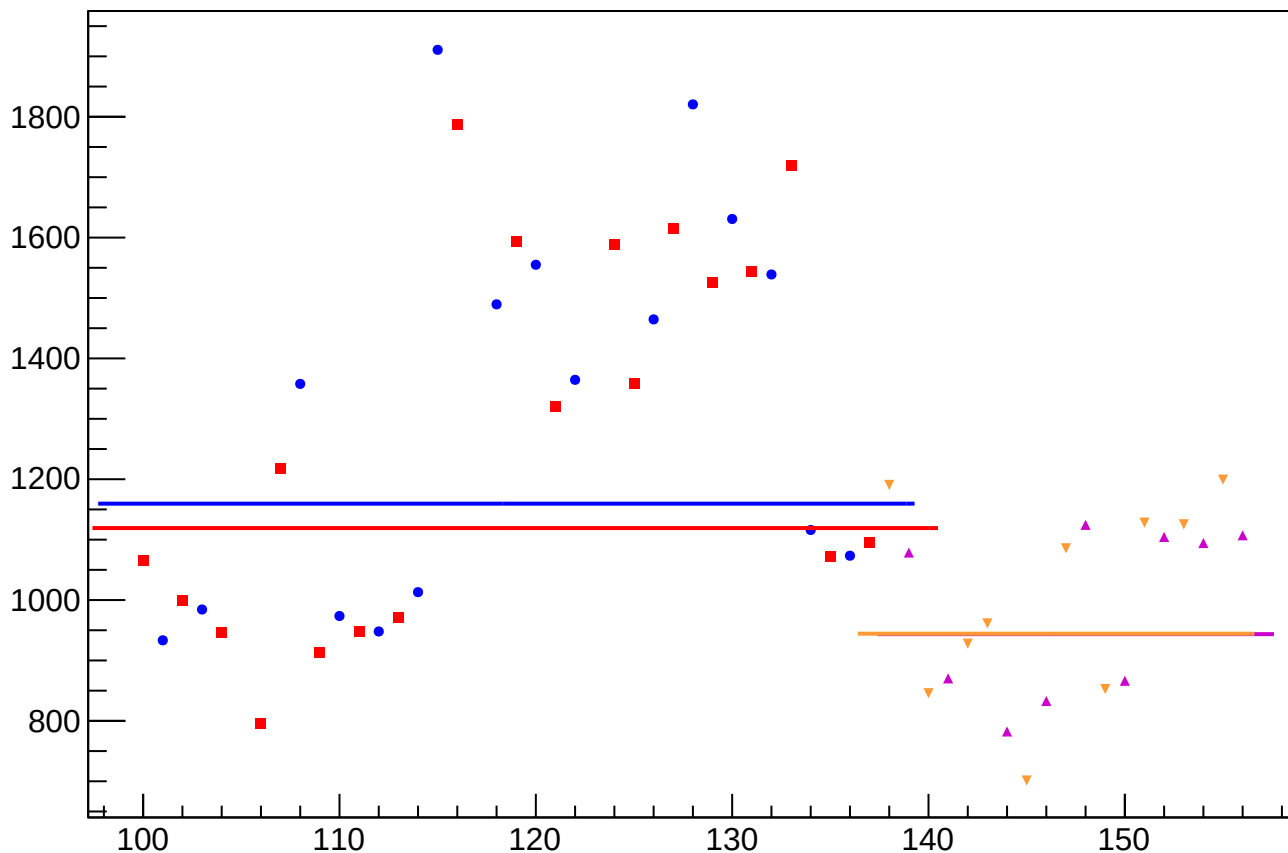
Right: 465.023 ± 306.543 χ^2/NDF : 38.8/34

In: 213.724 ± 271.108 χ^2/NDF : 27.2/24

Out: -520.732 ± 267.037 χ^2/NDF : 56.1/28

All: -159.060 ± 190.246 χ^2/NDF : 87.1/53

asym_sam_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576 $\pm$ 0.314 χ^2 /NDF: 683662.2/15

Left Out: 944.318 $\pm$ 0.243 χ^2 /NDF: 490760.3/9

Right Out: 1119.156 $\pm$ 0.300 χ^2 /NDF: 803154.6/18

Left In: 943.568 $\pm$ 0.242 χ^2 /NDF: 306745.7/8

Left: 943.941 $\pm$ 0.172 χ^2 /NDF: 797510.8/18

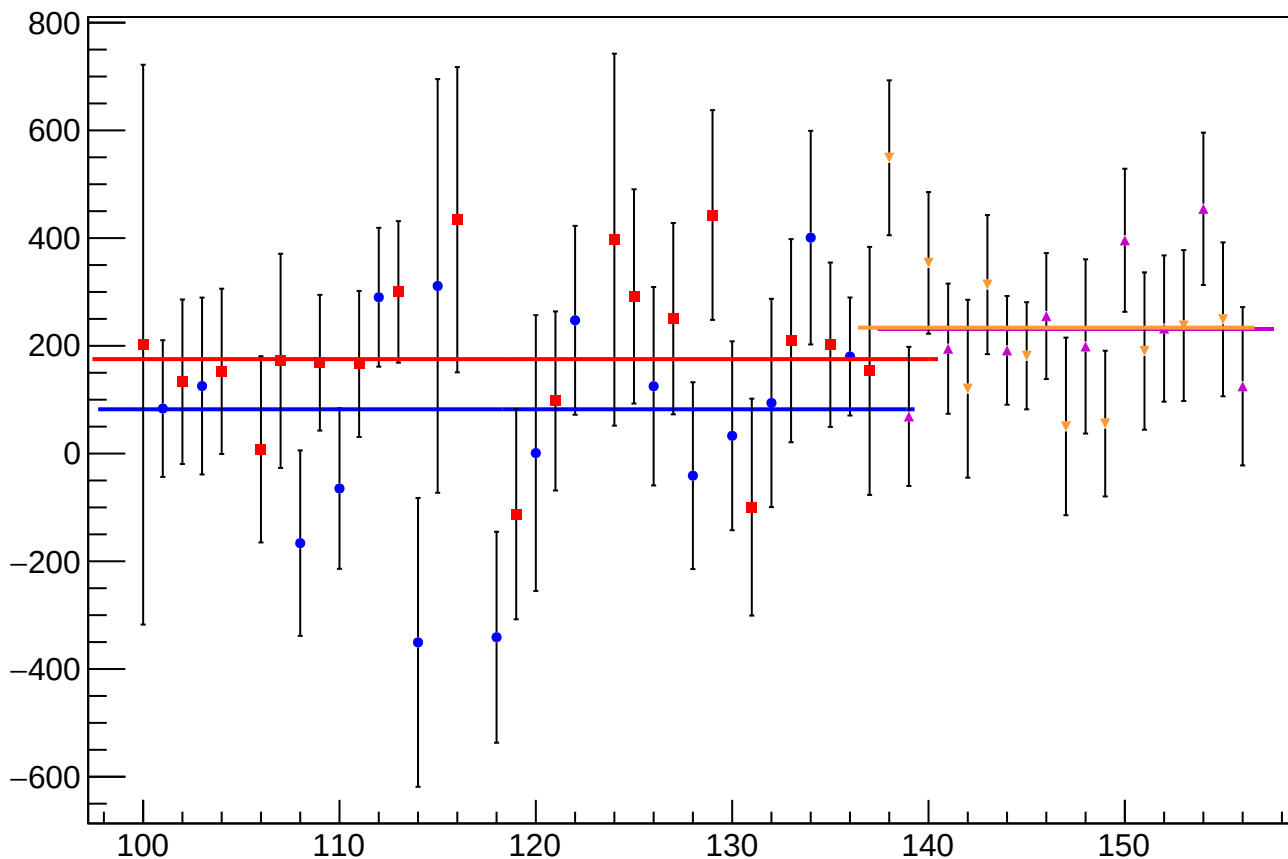
Right: 1138.426 $\pm$ 0.217 χ^2 /NDF: 1495491.5/34

In: 1024.116 $\pm$ 0.192 χ^2 /NDF: 1287311.0/24

Out: 1013.741 $\pm$ 0.189 χ^2 /NDF: 1499170.7/28

All: 1018.850 $\pm$ 0.135 χ^2 /NDF: 2787968.4/53

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: 233.793+/-42.943 χ^2/NDF : 9.8/9

Right Out: 175.338+/-40.678 χ^2/NDF : 9.9/18

Left In: 231.270+/-42.831 χ^2/NDF : 6.5/8

Left: 232.528+/-30.325 χ^2/NDF : 16.3/18

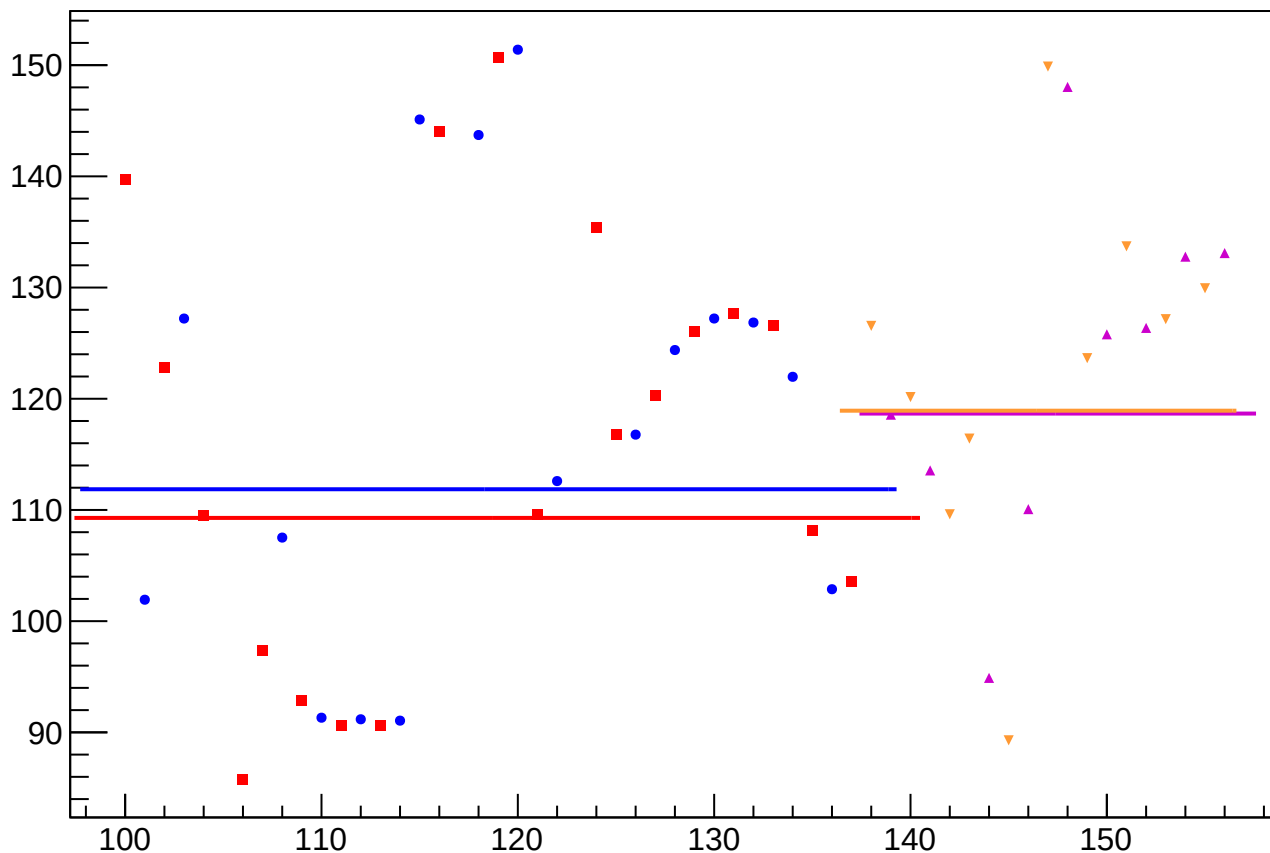
Right: 130.398+/-29.265 χ^2/NDF : 30.8/34

In: 155.503+/-30.036 χ^2/NDF : 31.0/24

Out: 202.984+/-29.532 χ^2/NDF : 20.8/28

All: 179.645+/-21.058 χ^2/NDF : 53.0/53

eigen_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: 118.926 $\pm$ 0.030 χ^2/NDF :302705.2/9

Right Out: 109.284 $\pm$ 0.029 χ^2/NDF : 370711.7/18

Left In: 118.668 $\pm$ 0.030 χ^2/NDF :242650.6/8

Left: 118.797 $\pm$ 0.021 χ^2/NDF : 545392.0/18

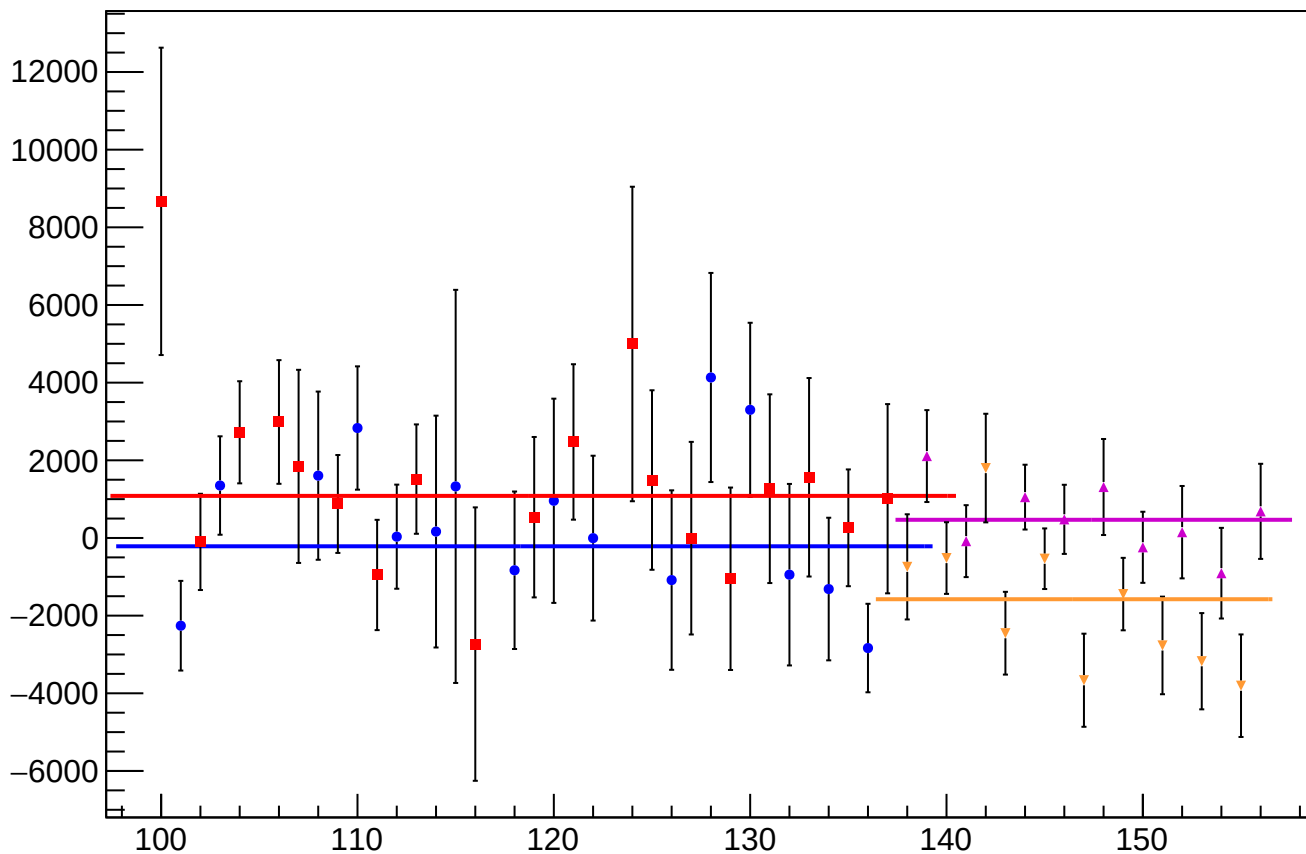
Right: 110.528 $\pm$ 0.021 χ^2/NDF : 680611.7/34

In: 115.209 $\pm$ 0.021 χ^2/NDF :574340.4/24

Out: 113.844 $\pm$ 0.021 χ^2/NDF :726558.8/28

All: 114.515 $\pm$ 0.015 χ^2/NDF : 1302999.3/53

asym_sam_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -214.278 $\pm$ 443.965 χ^2 /NDF: 20.4/15

Left Out: -1577.537 $\pm$ 343.905 χ^2 /NDF:18.4/9

Right Out: 1083.943 $\pm$ 423.774 χ^2 /NDF: 13.9/18

Left In: 468.227 $\pm$ 342.351 χ^2 /NDF:5.3/8

Left: -550.023 $\pm$ 242.627 χ^2 /NDF: 41.5/18

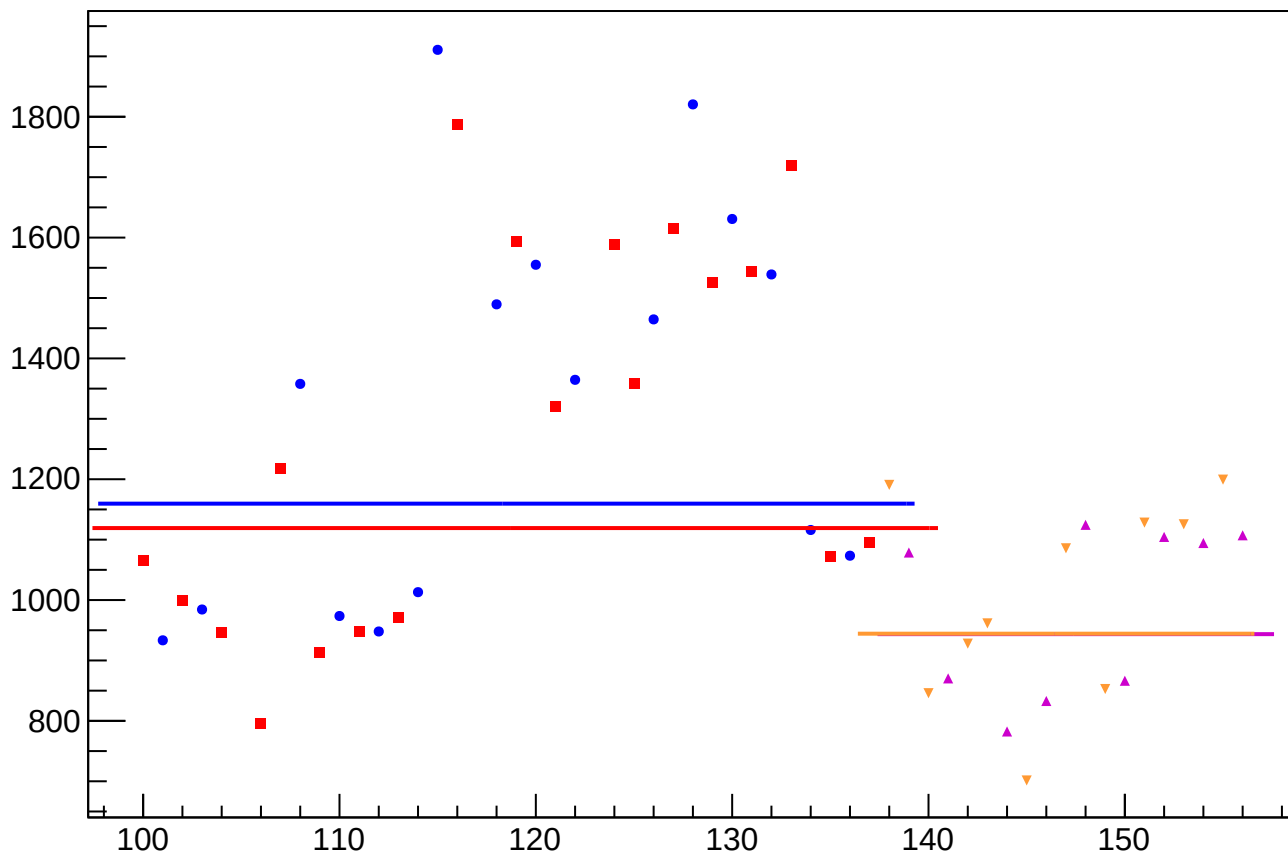
Right: 465.023 $\pm$ 306.543 χ^2 /NDF: 38.8/34

In: 213.724 $\pm$ 271.108 χ^2 /NDF:27.2/24

Out: -520.732 $\pm$ 267.037 χ^2 /NDF:56.1/28

All: -159.060 $\pm$ 190.246 χ^2 /NDF: 87.1/53

asym_sam_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576 $\pm$ 0.314 χ^2 /NDF: 683662.2/15

Left Out: 944.318 $\pm$ 0.243 χ^2 /NDF: 490760.3/9

Right Out: 1119.156 $\pm$ 0.300 χ^2 /NDF: 803154.6/18

Left In: 943.568 $\pm$ 0.242 χ^2 /NDF: 306745.7/8

Left: 943.941 $\pm$ 0.172 χ^2 /NDF: 797510.8/18

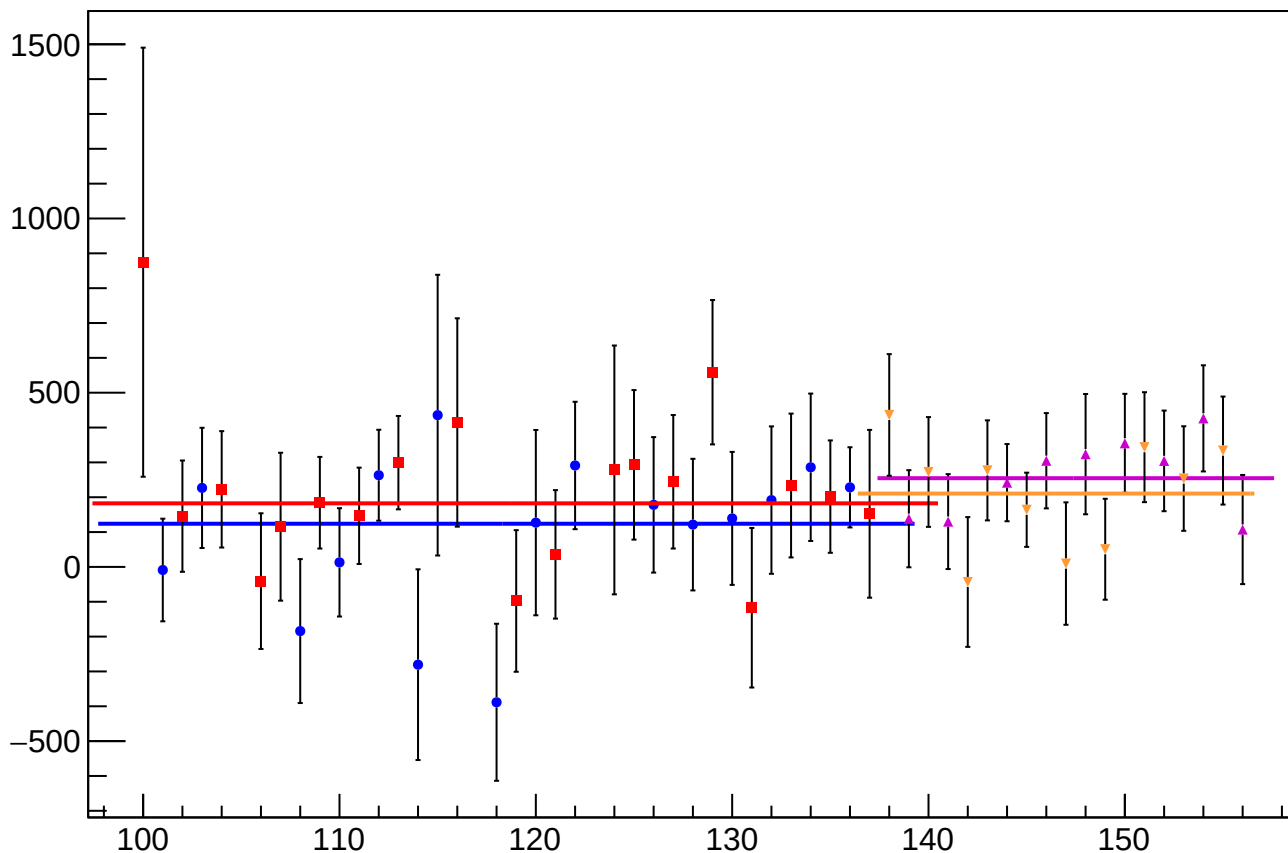
Right: 1138.426 $\pm$ 0.217 χ^2 /NDF: 1495491.5/34

In: 1024.116 $\pm$ 0.192 χ^2 /NDF: 1287311.0/24

Out: 1013.741 $\pm$ 0.189 χ^2 /NDF: 1499170.7/28

All: 1018.850 $\pm$ 0.135 χ^2 /NDF: 2787968.4/53

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: 210.485 $\pm$ 47.407 χ^2 /NDF:8.0/9

Right Out: 182.467 $\pm$ 43.224 χ^2 /NDF: 12.3/18

Left In: 254.644 $\pm$ 46.864 χ^2 /NDF:4.6/8

Left: 232.819 $\pm$ 33.328 χ^2 /NDF: 13.1/18

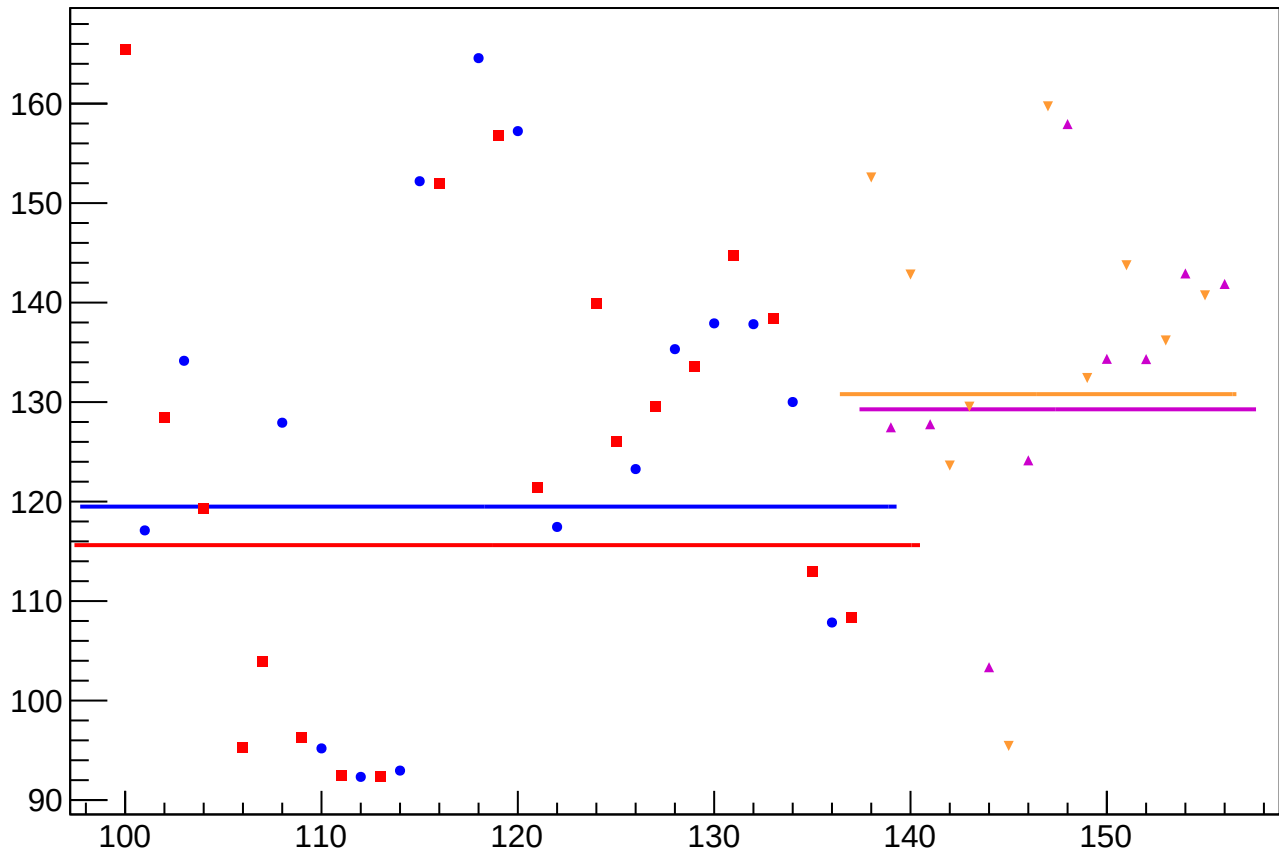
Right: 154.513 $\pm$ 31.252 χ^2 /NDF: 28.6/34

In: 186.960 $\pm$ 32.548 χ^2 /NDF:24.1/24

Out: 195.186 $\pm$ 31.941 χ^2 /NDF:20.5/28

All: 191.151 $\pm$ 22.797 χ^2 /NDF: 44.6/53

dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 119.495+/-0.032 χ^2/NDF : 380250.8/15

Left Out: 130.798+/-0.034 χ^2/NDF : 345226.5/9

Right Out: 115.622+/-0.031 χ^2/NDF : 426961.7/18

Left In: 129.273+/-0.033 χ^2/NDF : 202023.8/8

Left: 130.027+/-0.024 χ^2/NDF : 548297.2/18

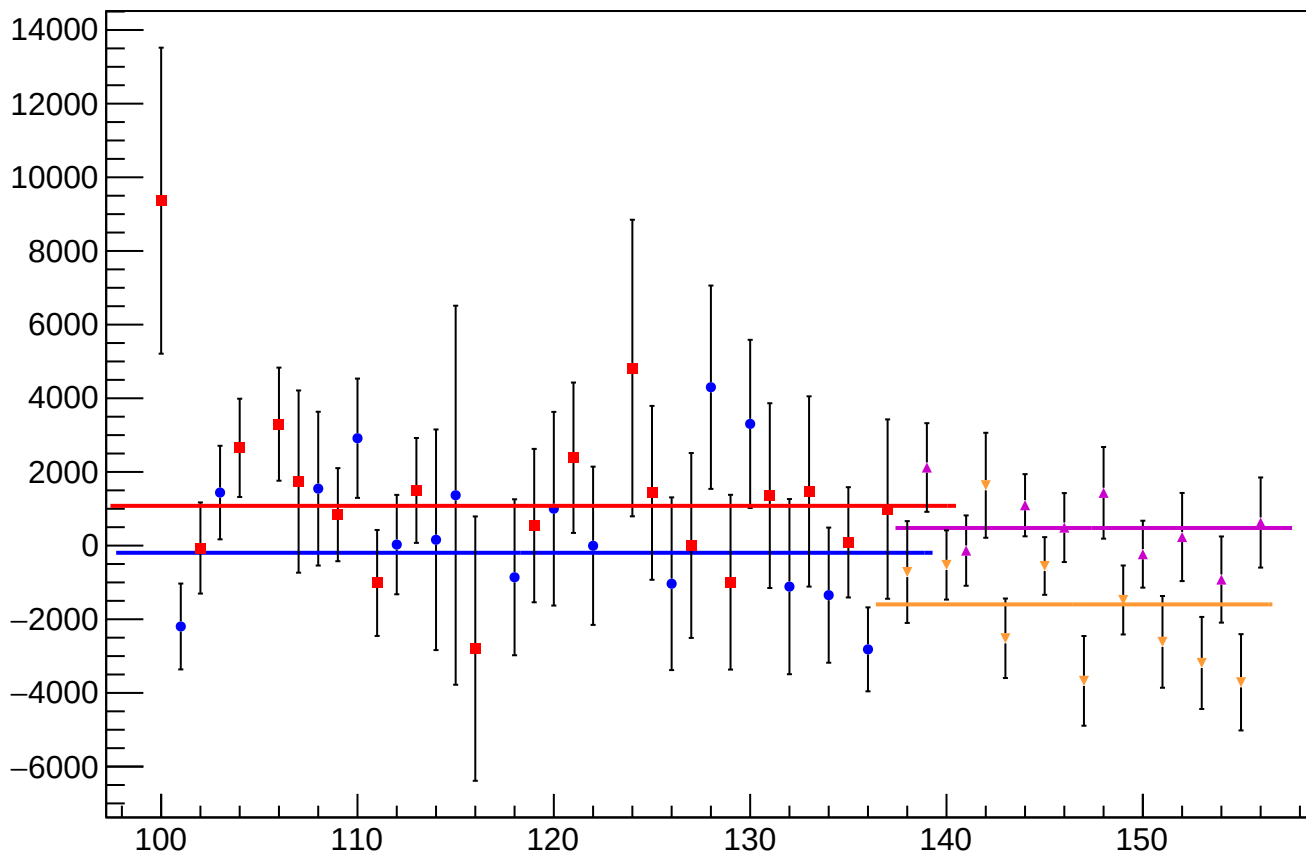
Right: 117.470+/-0.022 χ^2/NDF : 814875.1/34

In: 124.211+/-0.023 χ^2/NDF : 627349.6/24

Out: 122.511+/-0.023 χ^2/NDF : 884114.4/28

All: 123.345+/-0.016 χ^2/NDF : 1514243.7/53

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: -1596.595+/-346.716 χ^2/NDF : 17.2/9

Right Out: 1079.393+/-425.950 χ^2/NDF : 14.6/18

Left In: 478.284+/-347.432 χ^2/NDF : 5.5/8

Left: -561.297+/-245.418 χ^2/NDF : 40.5/18

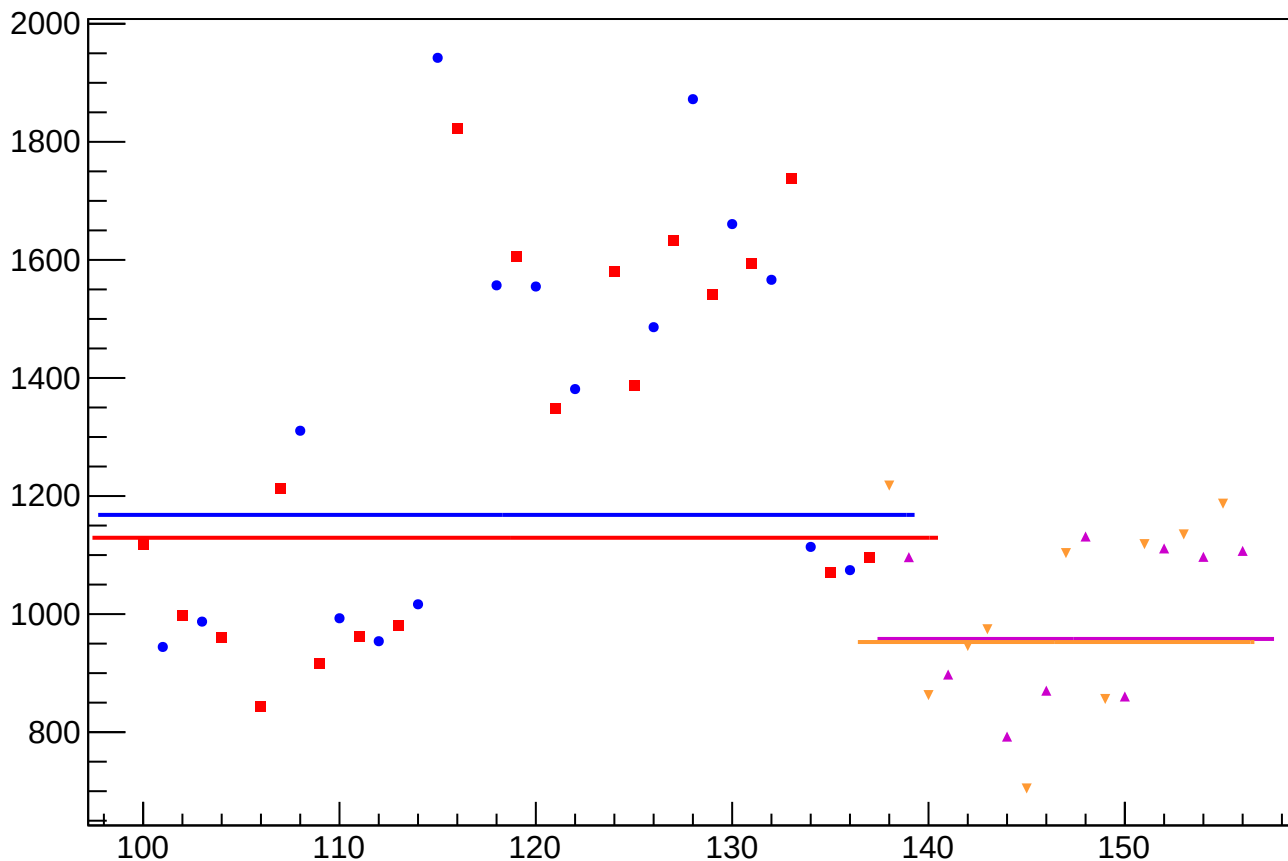
Right: 473.342+/-308.475 χ^2/NDF : 39.2/34

In: 224.925+/-274.393 χ^2/NDF : 27.3/24

Out: -530.159+/-268.896 χ^2/NDF : 55.5/28

All: -160.257+/-192.052 χ^2/NDF : 86.7/53

asym_sam_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1168.063 $\pm$ 0.316 χ^2 /NDF: 709363.8/15

Left Out: 952.700 $\pm$ 0.245 χ^2 /NDF: 487451.5/9

Right Out: 1129.316 $\pm$ 0.301 χ^2 /NDF: 807222.5/18

Left In: 957.898 $\pm$ 0.246 χ^2 /NDF: 281509.8/8

Left: 955.293 $\pm$ 0.174 χ^2 /NDF: 769185.5/18

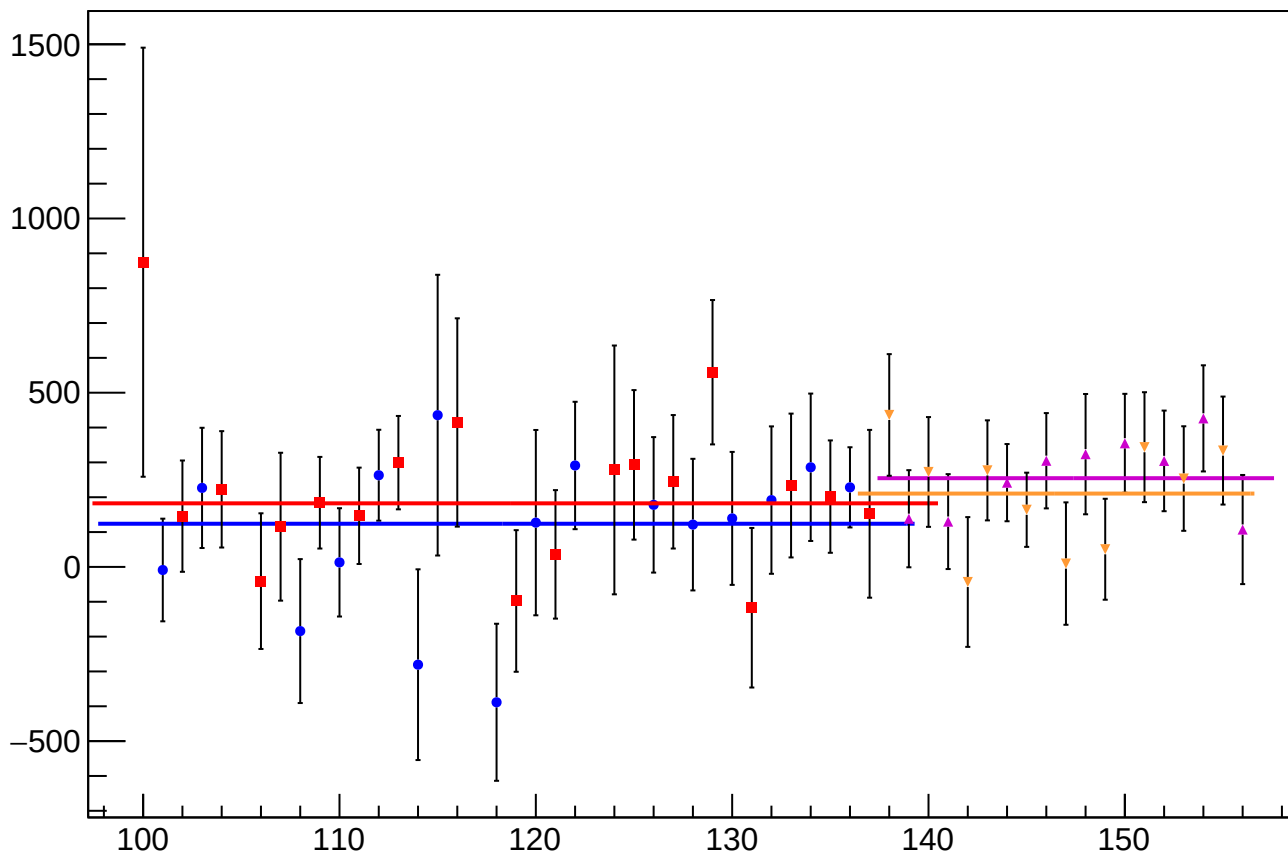
Right: 1147.741 $\pm$ 0.218 χ^2 /NDF: 1524455.8/34

In: 1036.973 $\pm$ 0.194 χ^2 /NDF: 1266229.7/24

Out: 1023.085 $\pm$ 0.190 χ^2 /NDF: 1501496.2/28

All: 1029.889 $\pm$ 0.136 χ^2 /NDF: 2770339.6/53

eigen_dit_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 123.895 ± 45.238 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 210.487 ± 47.407 $\chi^2/\text{NDF}: 8.0/9$

Right Out: 182.468 ± 43.224 $\chi^2/\text{NDF}: 12.3/18$

Left In: 254.646 ± 46.865 $\chi^2/\text{NDF}: 4.6/8$

Left: 232.820 ± 33.328 $\chi^2/\text{NDF}: 13.1/18$

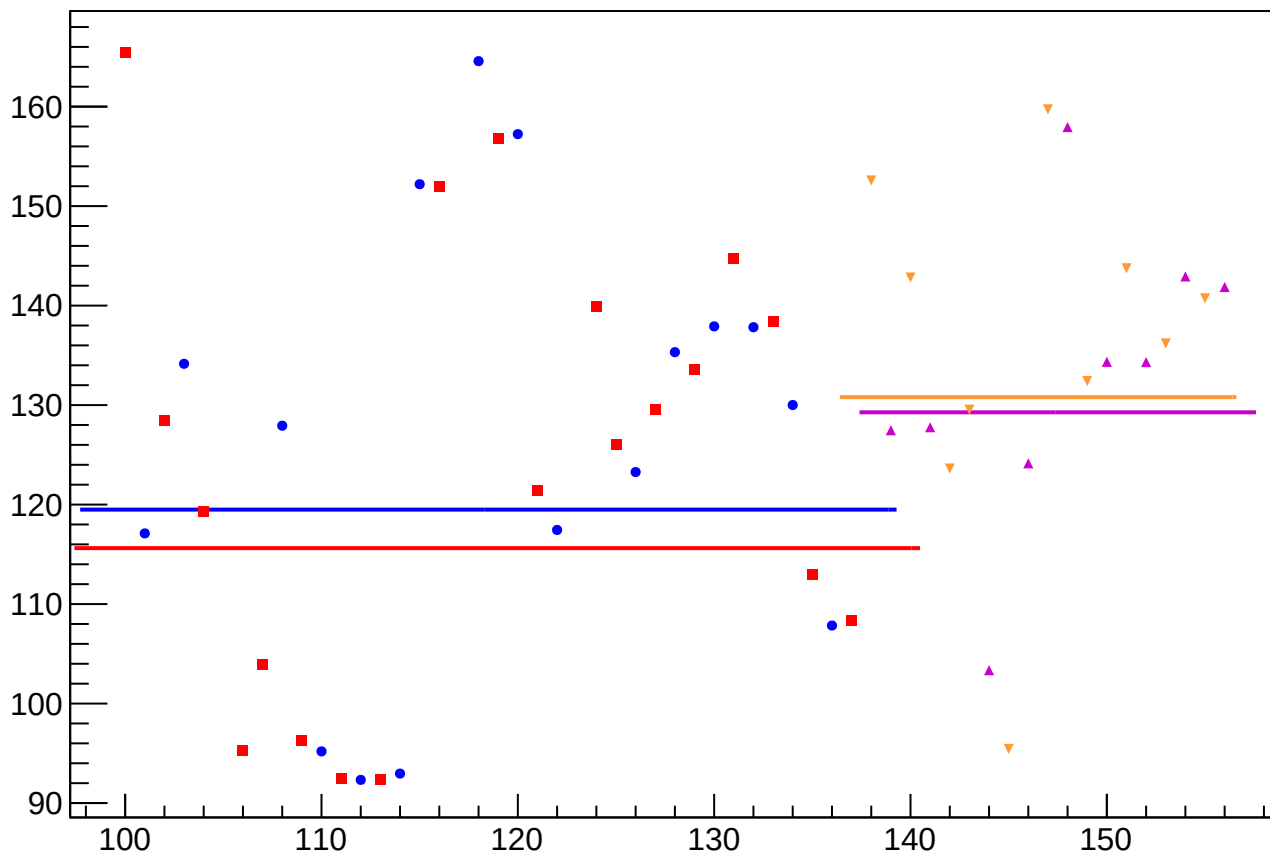
Right: 154.514 ± 31.252 $\chi^2/\text{NDF}: 28.6/34$

In: 186.962 ± 32.548 $\chi^2/\text{NDF}: 24.1/24$

Out: 195.187 ± 31.941 $\chi^2/\text{NDF}: 20.5/28$

All: 191.152 ± 22.797 $\chi^2/\text{NDF}: 44.6/53$

eigen_dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 119.495 $\pm$ 0.032 χ^2 /NDF: 380254.2/15

Left Out: 130.798 $\pm$ 0.034 χ^2 /NDF: 345224.7/9

Right Out: 115.622 $\pm$ 0.031 χ^2 /NDF: 426966.4/18

Left In: 129.273 $\pm$ 0.033 χ^2 /NDF: 202022.3/8

Left: 130.027 $\pm$ 0.024 χ^2 /NDF: 548293.8/18

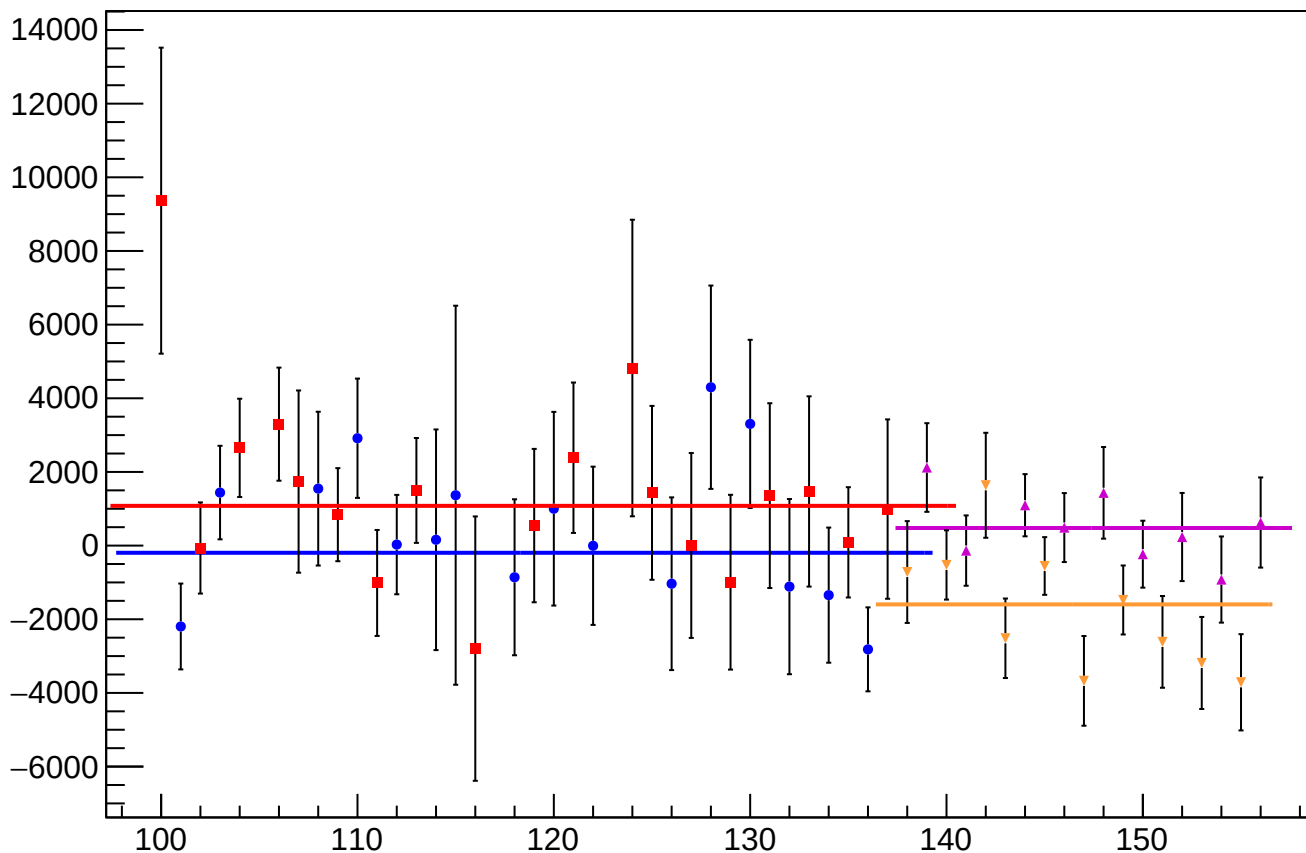
Right: 117.470 $\pm$ 0.022 χ^2 /NDF: 814883.4/34

In: 124.211 $\pm$ 0.023 χ^2 /NDF: 627352.0/24

Out: 122.511 $\pm$ 0.023 χ^2 /NDF: 884118.6/28

All: 123.345 $\pm$ 0.016 χ^2 /NDF: 1514250.5/53

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: -1596.593+/-346.716 χ^2/NDF : 17.2/9

Right Out: 1079.393+/-425.950 χ^2/NDF : 14.6/18

Left In: 478.284+/-347.432 χ^2/NDF : 5.5/8

Left: -561.296+/-245.418 χ^2/NDF : 40.5/18

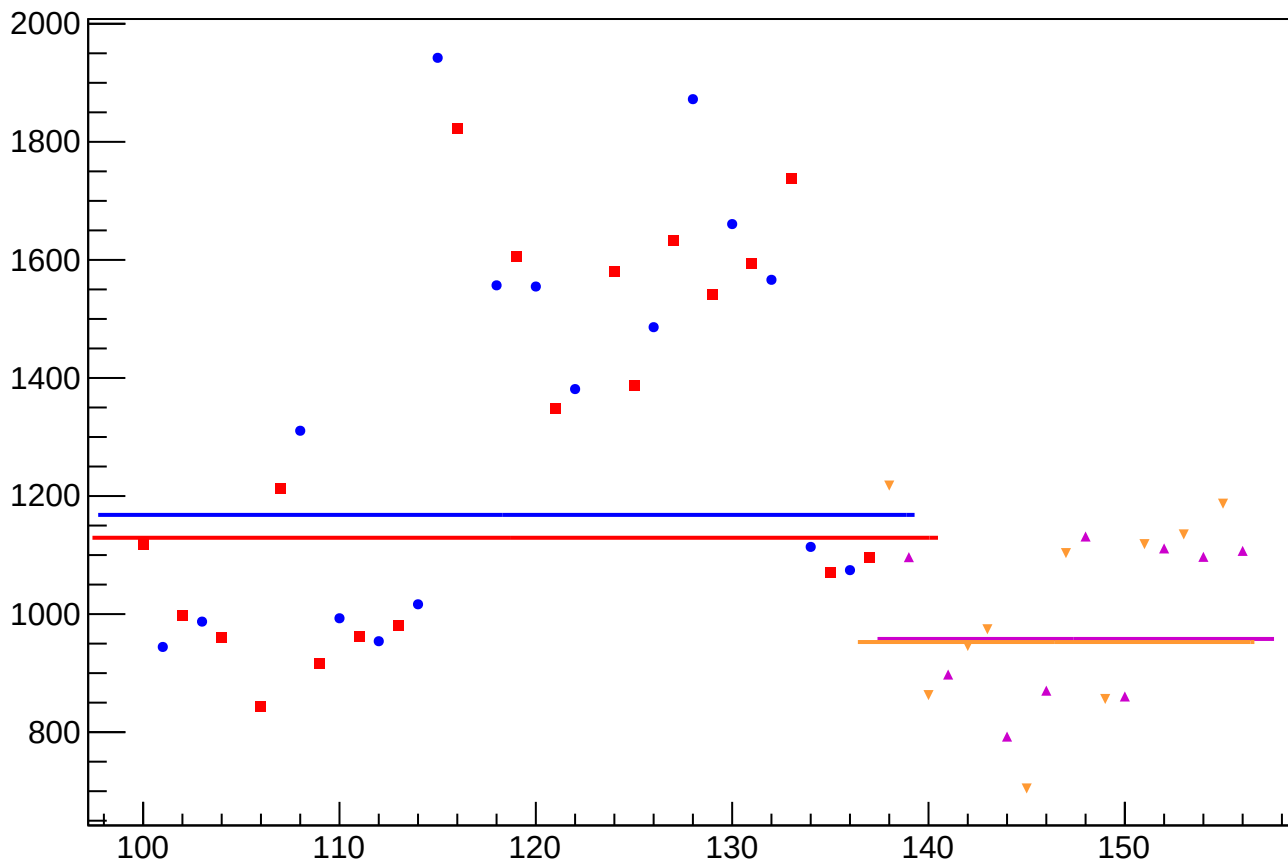
Right: 473.342+/-308.475 χ^2/NDF : 39.2/34

In: 224.925+/-274.393 χ^2/NDF : 27.3/24

Out: -530.158+/-268.896 χ^2/NDF : 55.5/28

All: -160.256+/-192.052 χ^2/NDF : 86.7/53

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: 952.699+/-0.245 χ^2/NDF : 487454.6/9

Right Out: 1129.316+/-0.301 χ^2/NDF : 807224.0/18

Left In: 957.897+/-0.246 χ^2/NDF : 281508.0/8

Left: 955.293+/-0.174 χ^2/NDF : 769187.0/18

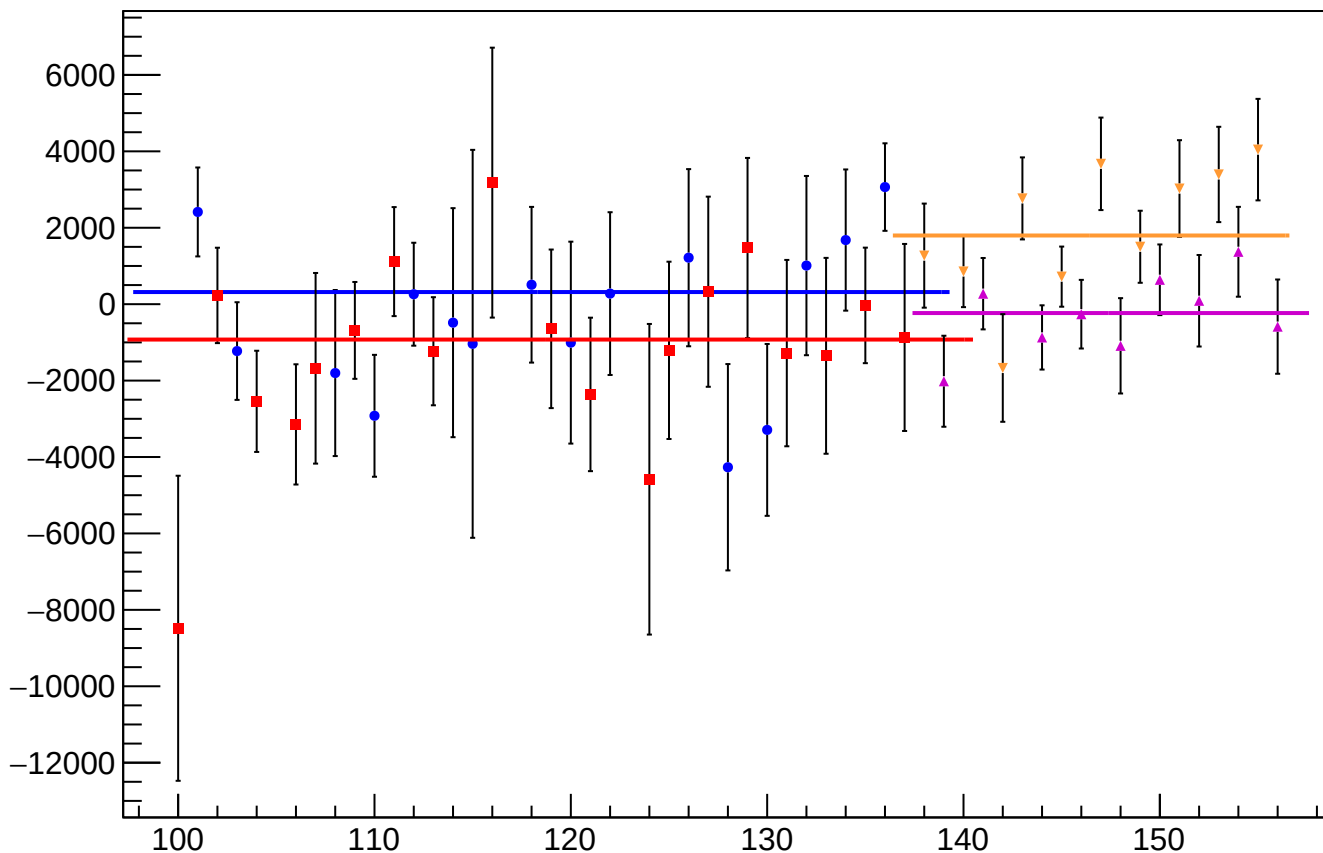
Right: 1147.741+/-0.218 χ^2/NDF : 1524459.2/34

In: 1036.973+/-0.194 χ^2/NDF : 1266229.8/24

Out: 1023.084+/-0.190 χ^2/NDF : 1501502.2/28

All: 1029.888+/-0.136 χ^2/NDF : 2770345.9/53

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 317.365 $\pm$ 446.341 χ^2/NDF : 22.2/15

Left Out: 1797.475 $\pm$ 346.745 χ^2/NDF : 17.9/9

Right Out: -926.036 $\pm$ 425.405 χ^2/NDF : 14.5/18

Left In: -232.269 $\pm$ 345.155 χ^2/NDF : 6.5/8

Left: 777.938 $\pm$ 244.621 χ^2/NDF : 41.6/18

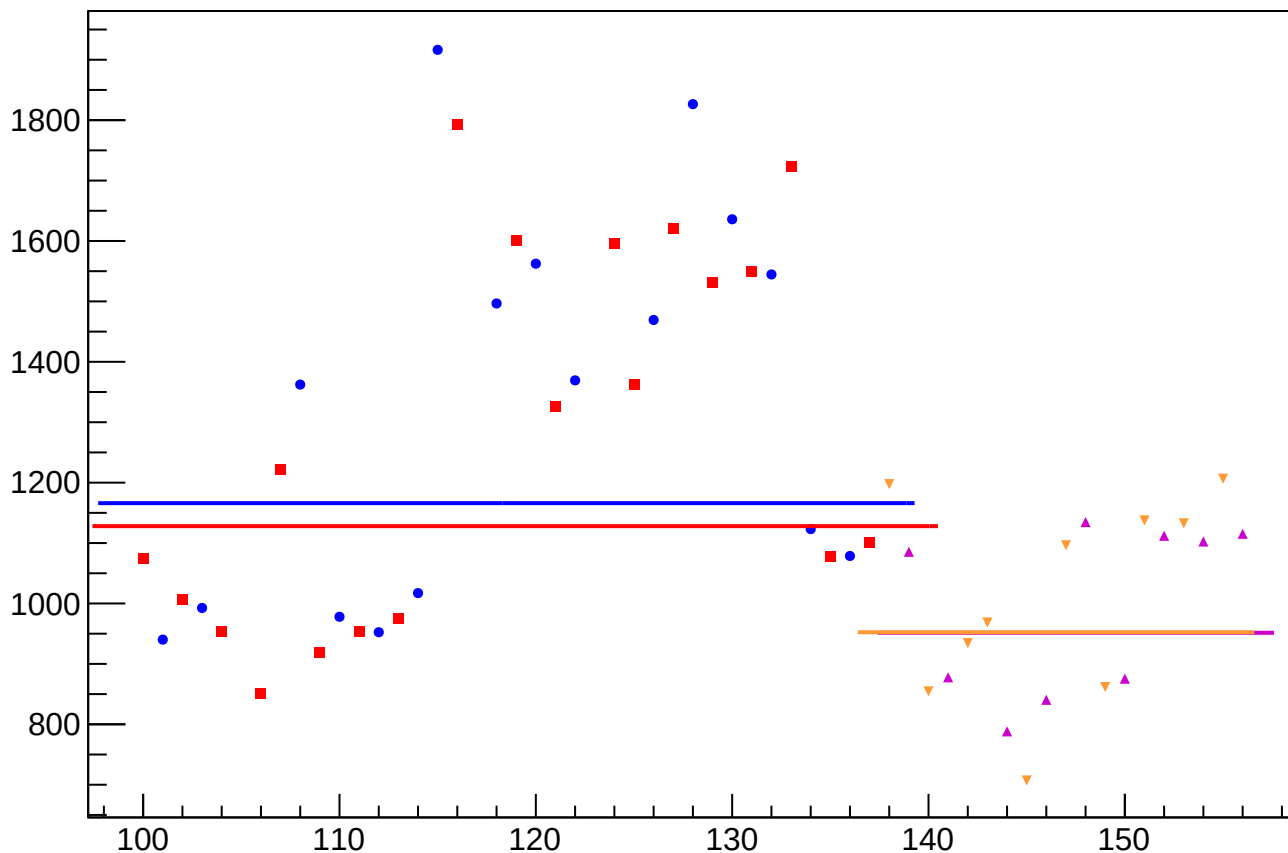
Right: -334.180 $\pm$ 307.942 χ^2/NDF : 40.8/34

In: -26.588 $\pm$ 273.040 χ^2/NDF : 29.6/24

Out: 710.317 $\pm$ 268.772 χ^2/NDF : 57.0/28

All: 347.669 $\pm$ 191.542 χ^2/NDF : 90.3/53

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1166.056 $\pm$ 0.316 χ^2/NDF : 677063.1/15

Left Out: 952.329 $\pm$ 0.245 χ^2/NDF : 486467.9/9

Right Out: 1128.006 $\pm$ 0.301 χ^2/NDF : 775766.7/18

Left In: 951.449 $\pm$ 0.244 χ^2/NDF : 304479.9/8

Left: 951.887 $\pm$ 0.173 χ^2/NDF : 790954.4/18

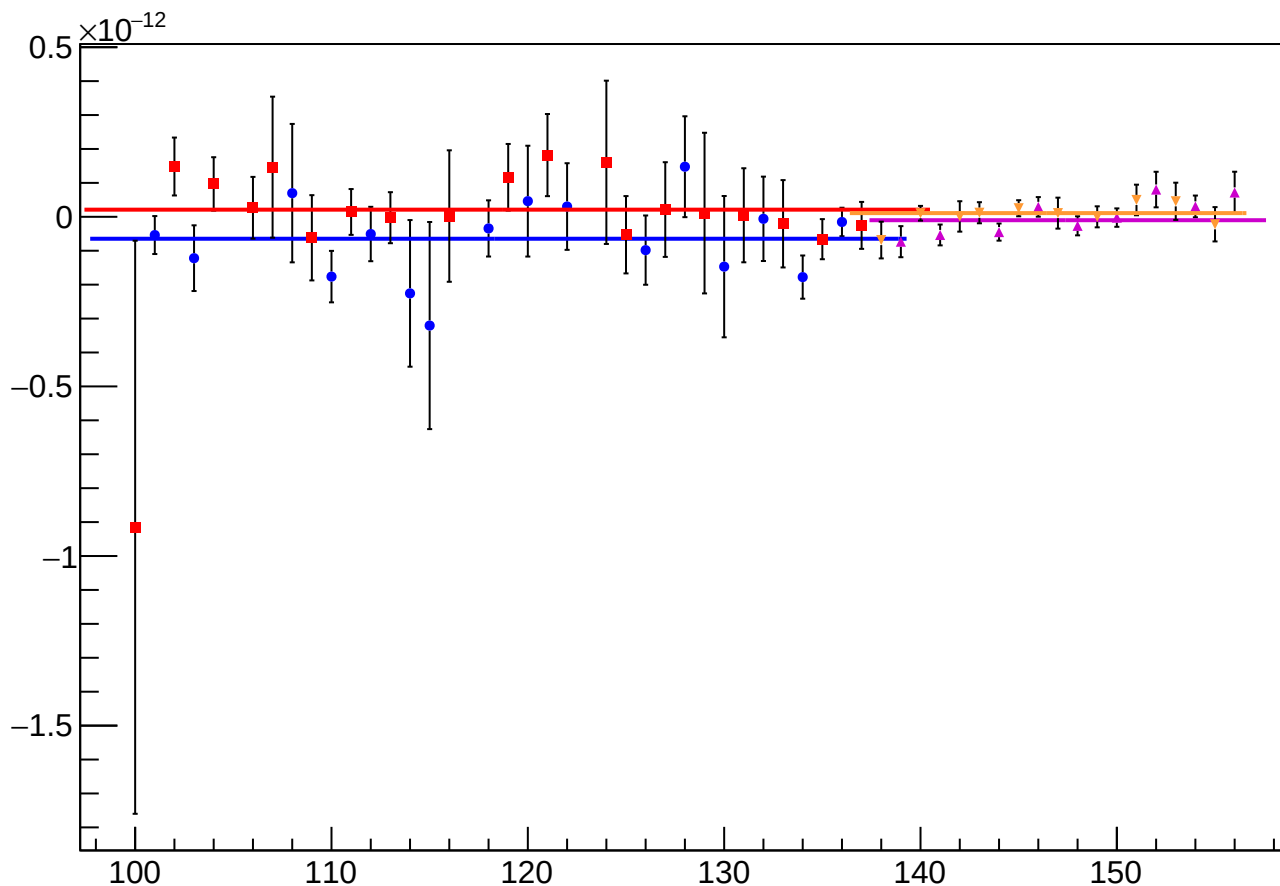
Right: 1146.118 $\pm$ 0.218 χ^2/NDF : 1460446.1/34

In: 1031.758 $\pm$ 0.193 χ^2/NDF : 1270886.3/24

Out: 1022.455 $\pm$ 0.190 χ^2/NDF : 1467163.8/28

All: 1027.033 $\pm$ 0.135 χ^2/NDF : 2739229.2/53

asym_sam_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 12.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 11.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 14.5/8

Left: 0.000+/-0.000 χ^2/NDF : 20.6/18

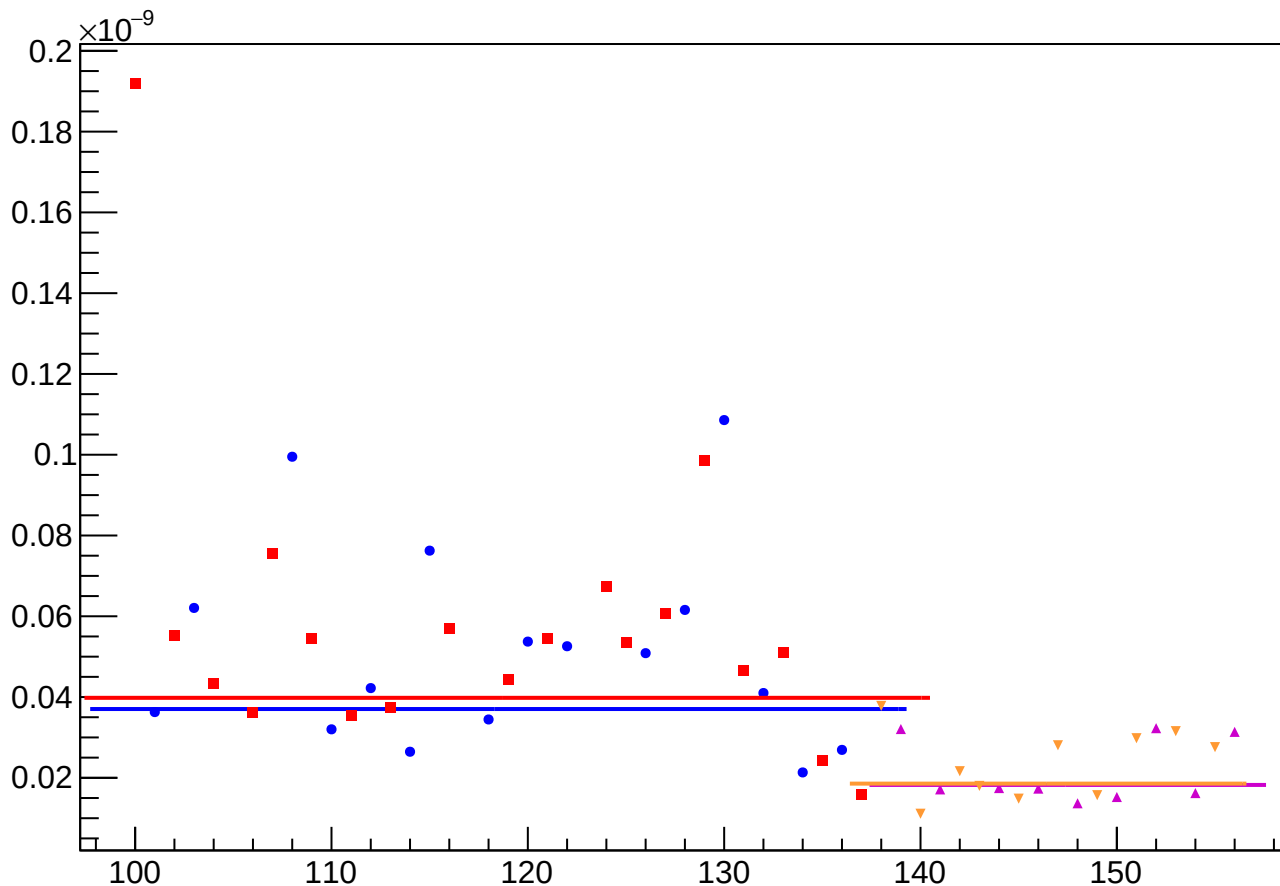
Right: -0.000+/-0.000 χ^2/NDF : 31.3/34

In: -0.000+/-0.000 χ^2/NDF : 32.0/24

Out: 0.000+/-0.000 χ^2/NDF : 15.9/28

All: -0.000+/-0.000 χ^2/NDF : 53.8/53

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 : 952108.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 903728.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 509647.9/8

Left: 0.000+/-0.000 χ^2/NDF : 1462660.0/18

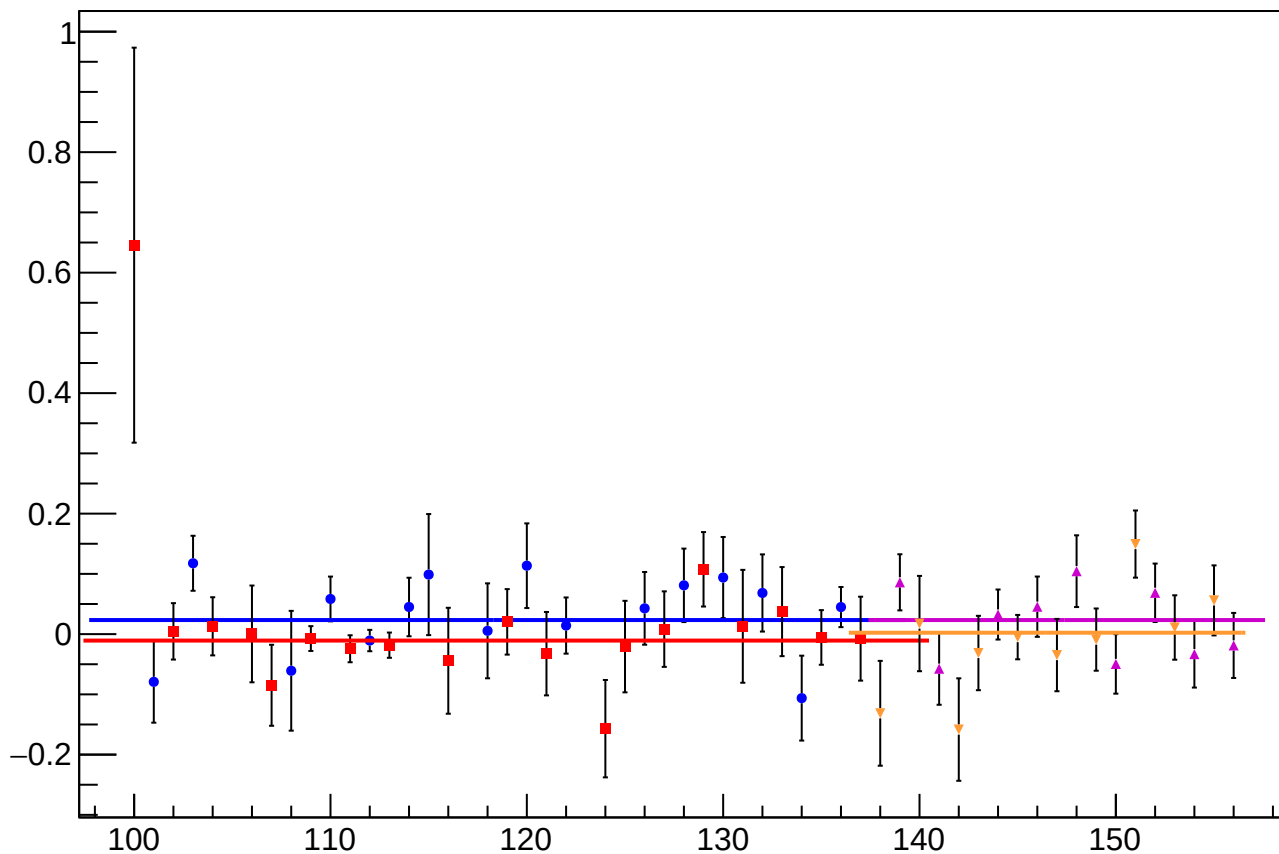
Right: 0.000+/-0.000 χ^2/NDF : 1914342.0/34

In: 0.000+/-0.000 χ^2/NDF : 2694830.4/24

Out: 0.000+/-0.000 χ^2/NDF : 3241106.0/28

All: 0.000+/-0.000 χ^2/NDF : 5938032.1/53

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: 0.002 ± 0.018 $\chi^2/\text{NDF}: 14.6/9$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.023 ± 0.017 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.014 ± 0.012 $\chi^2/\text{NDF}: 25.7/18$

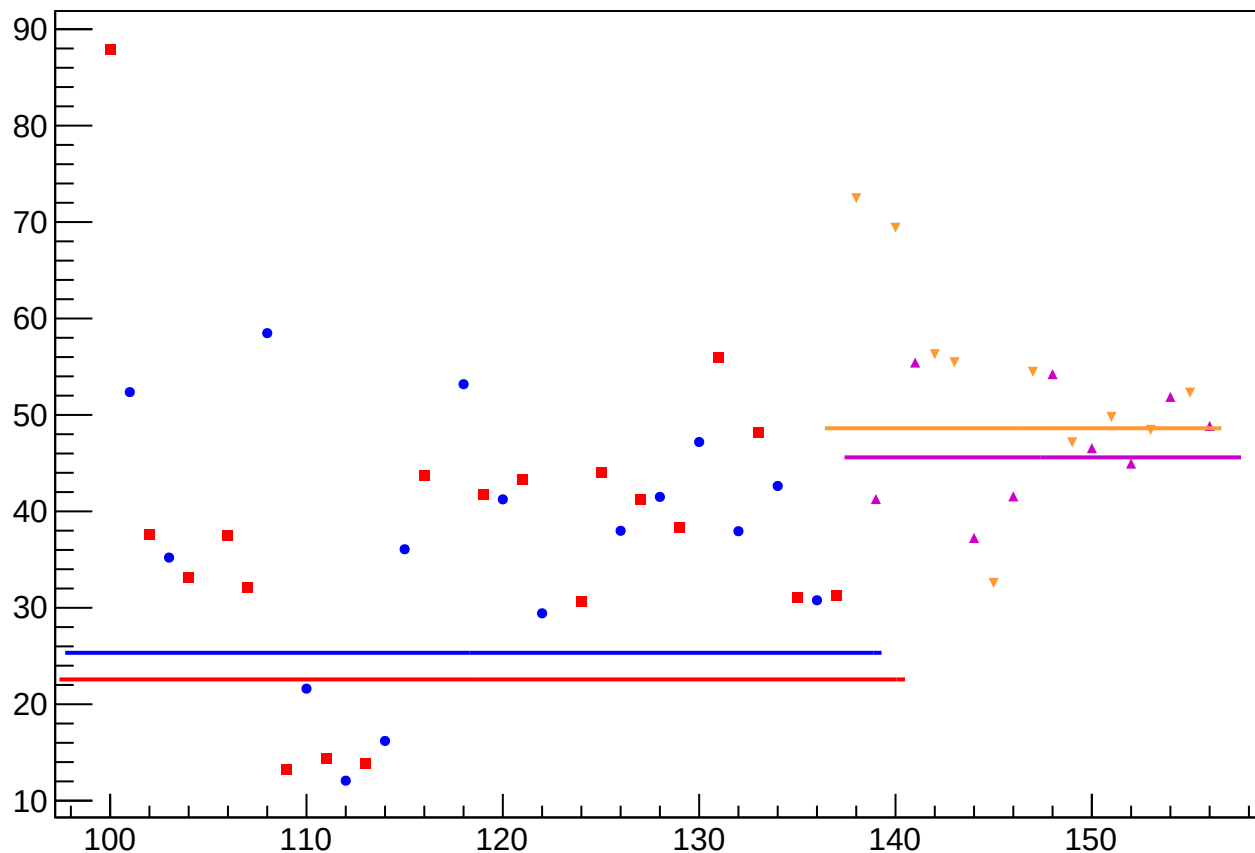
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.023 ± 0.009 $\chi^2/\text{NDF}: 31.2/24$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 29.2/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 66.4/53$

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: 48.618+/-0.013 χ^2/NDF : 738259.8/9

Right Out: 22.571+/-0.007 χ^2/NDF : 3139937.1/18

Left In: 45.598+/-0.012 χ^2/NDF : 241057.1/8

Left: 47.003+/-0.009 χ^2/NDF : 1009043.3/18

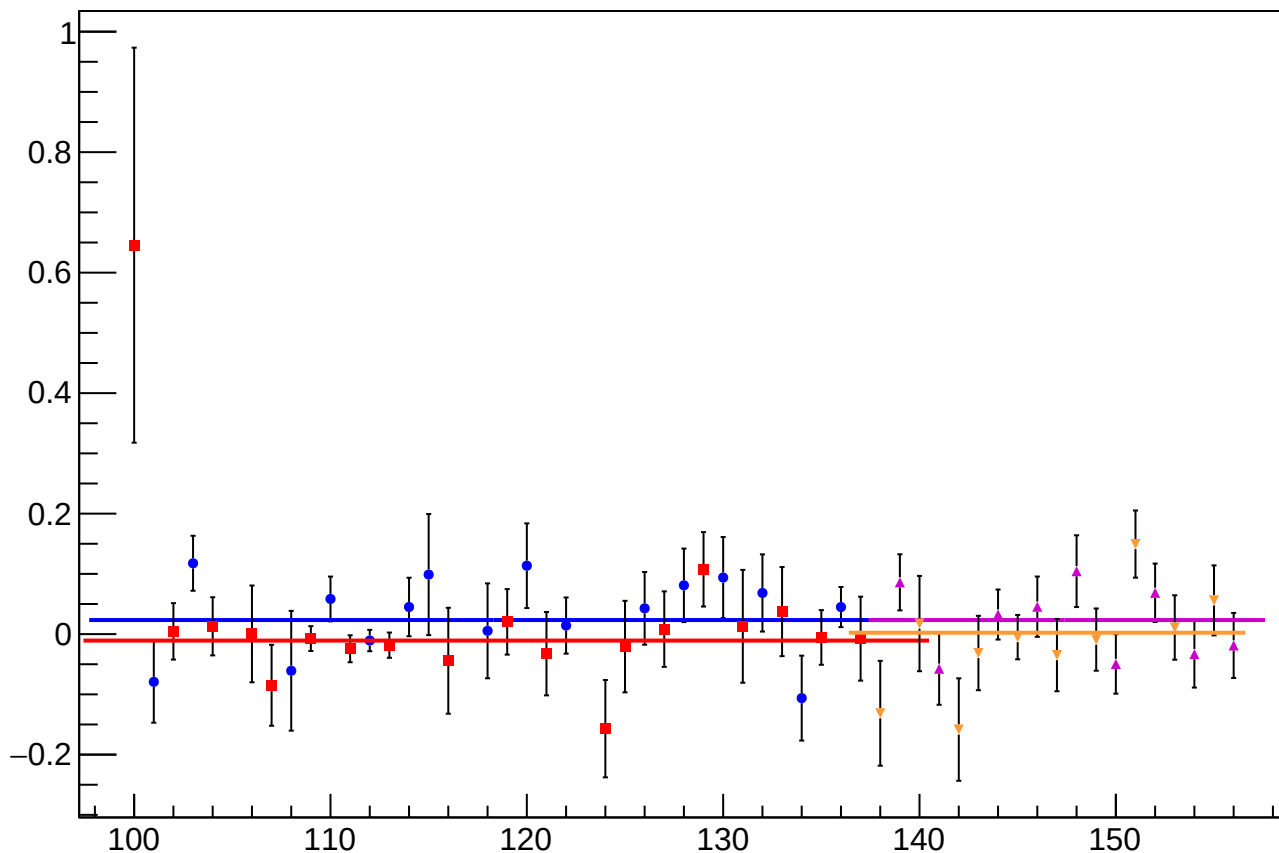
Right: 23.786+/-0.005 χ^2/NDF : 6134886.6/34

In: 31.420+/-0.007 χ^2/NDF : 5179598.0/24

Out: 28.474+/-0.006 χ^2/NDF : 7078557.8/28

All: 29.842+/-0.004 χ^2/NDF : 12366628.8/53

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 χ^2/NDF : 20.7/15

Left Out: 0.002 ± 0.018 χ^2/NDF : 14.6/9

Right Out: -0.011 ± 0.010 χ^2/NDF : 14.2/18

Left In: 0.023 ± 0.017 χ^2/NDF : 10.4/8

Left: 0.014 ± 0.012 χ^2/NDF : 25.7/18

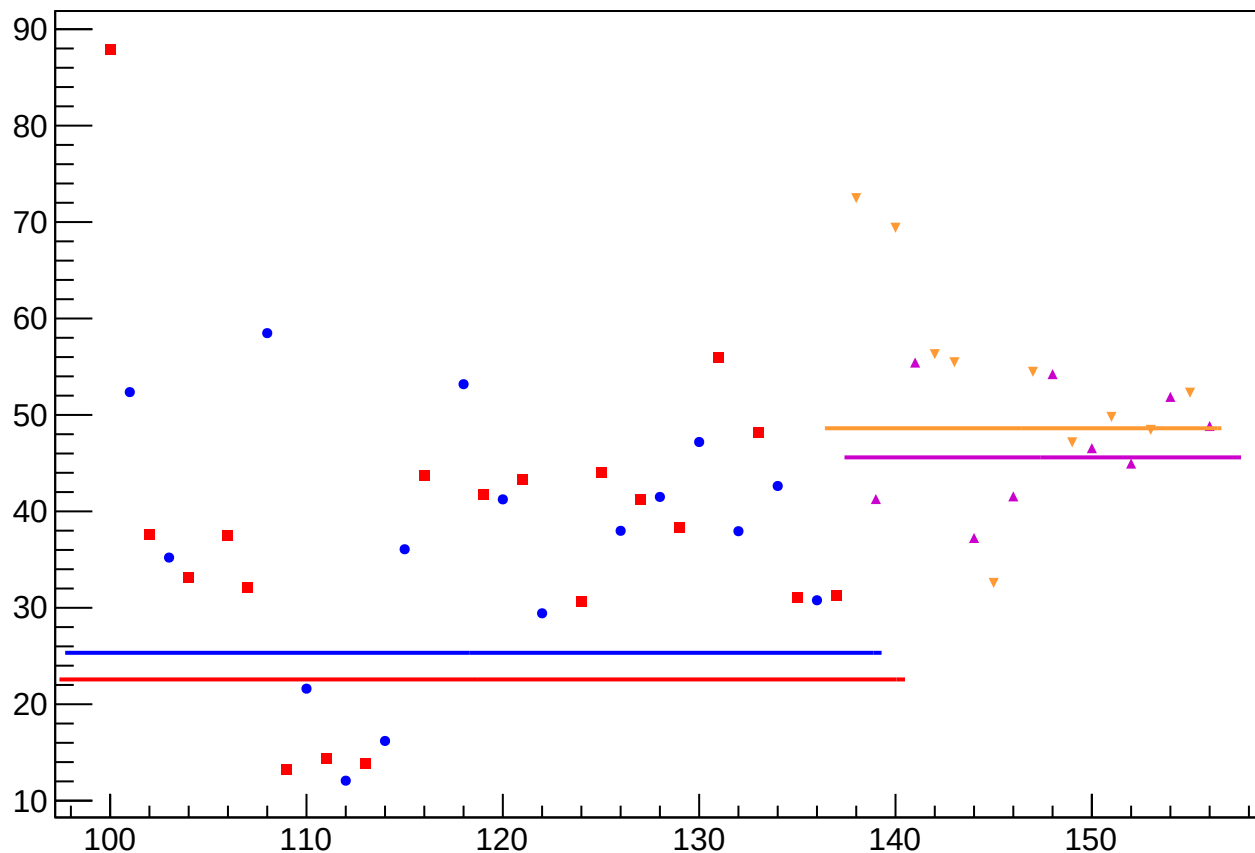
Right: 0.004 ± 0.007 χ^2/NDF : 40.3/34

In: 0.023 ± 0.009 χ^2/NDF : 31.2/24

Out: -0.008 ± 0.009 χ^2/NDF : 29.2/28

All: 0.007 ± 0.006 χ^2/NDF : 66.4/53

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.334+/-0.008 χ^2/NDF : 2925132.2/15

Left Out: 48.618+/-0.013 χ^2/NDF : 738259.8/9

Right Out: 22.571+/-0.007 χ^2/NDF : 3139937.1/18

Left In: 45.598+/-0.012 χ^2/NDF : 241057.1/8

Left: 47.003+/-0.009 χ^2/NDF : 1009043.3/18

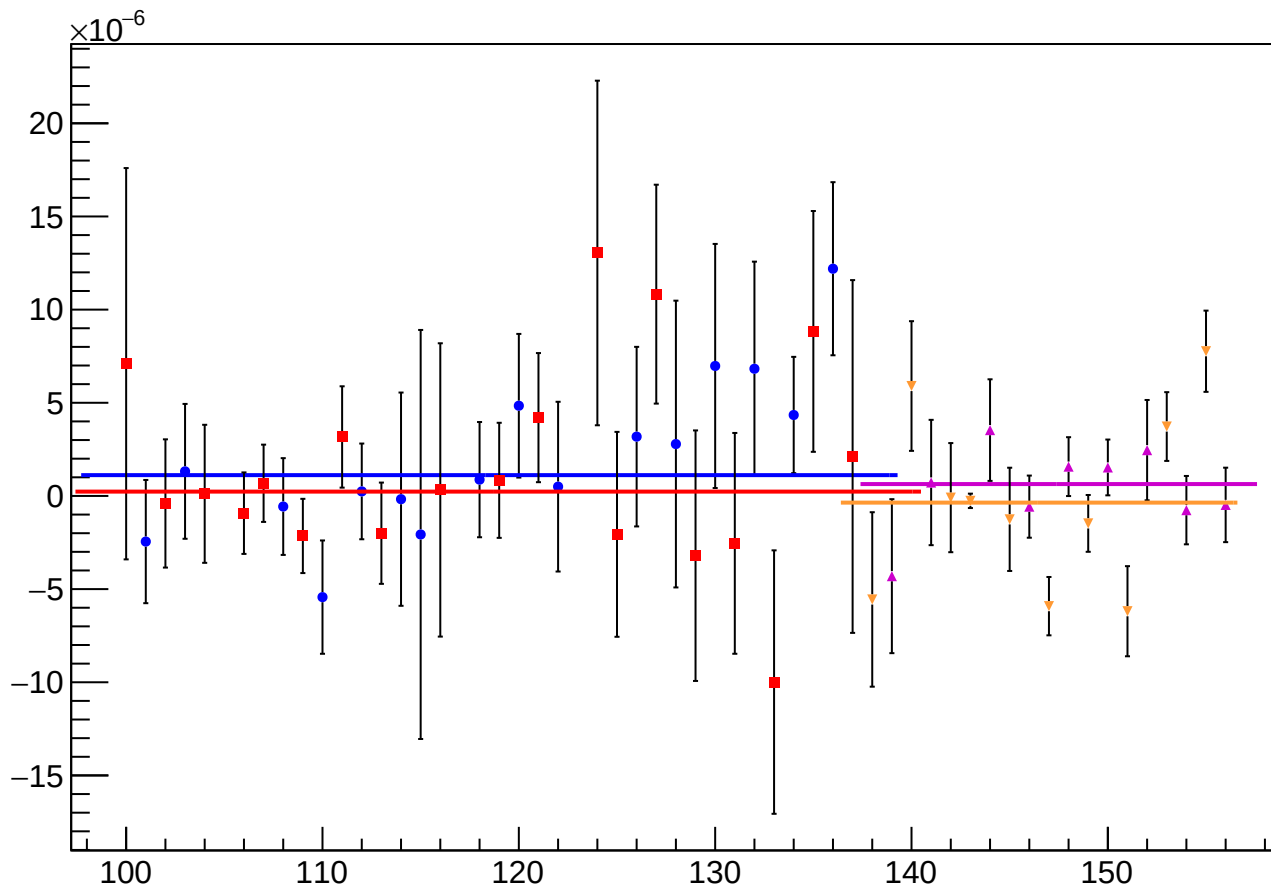
Right: 23.786+/-0.005 χ^2/NDF : 6134886.6/34

In: 31.420+/-0.007 χ^2/NDF : 5179598.0/24

Out: 28.474+/-0.006 χ^2/NDF : 7078557.8/28

All: 29.842+/-0.004 χ^2/NDF : 12366628.8/53

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.2/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:42.4/9

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:5.1/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 49.2/18

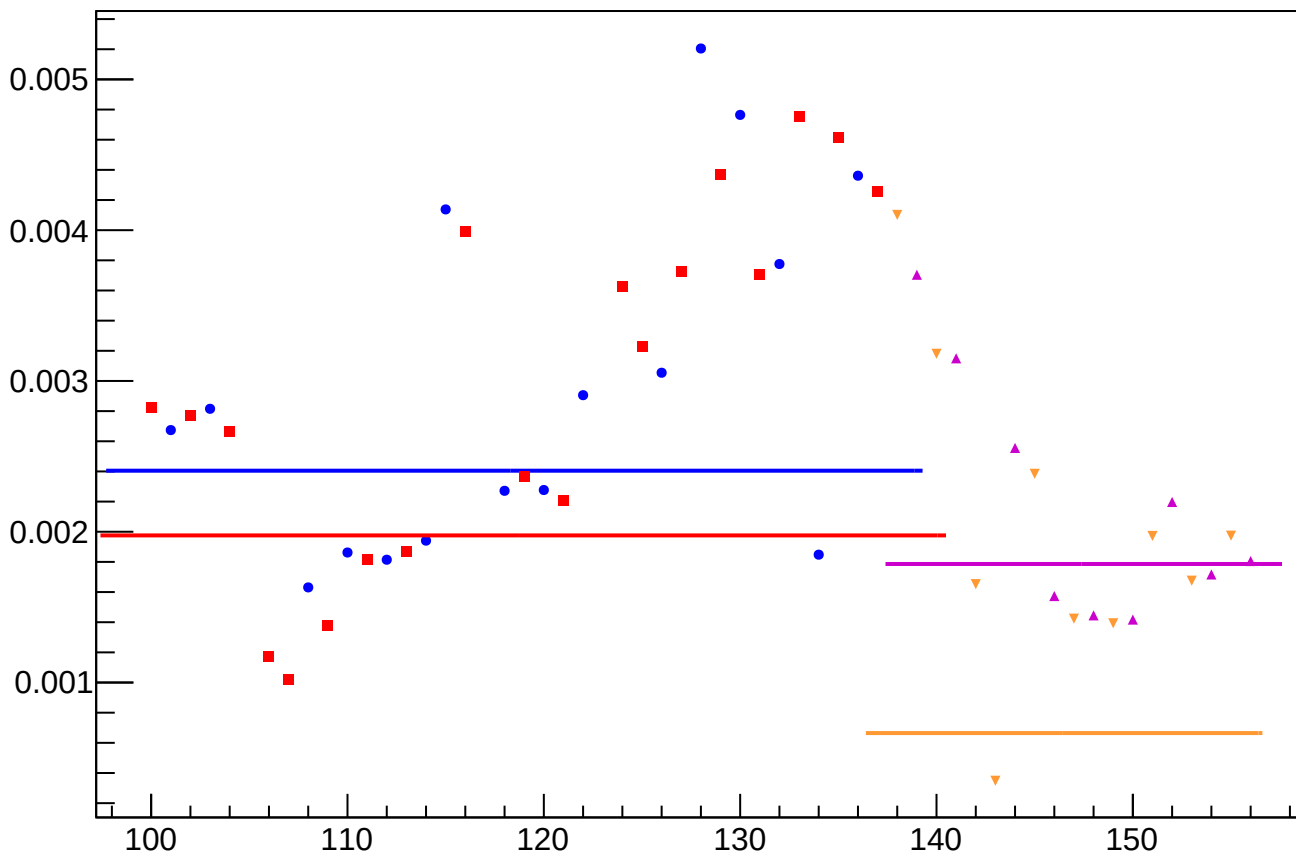
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 31.8/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:21.5/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:58.0/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 82.3/53

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: 0.001+/-0.000 χ^2/NDF : 7293927.1/9

Right Out: 0.002+/-0.000 χ^2/NDF : 2775363.3/18

Left In: 0.002+/-0.000 χ^2/NDF : 1216063.1/8

Left: 0.001+/-0.000 χ^2/NDF : 12872719.3/18

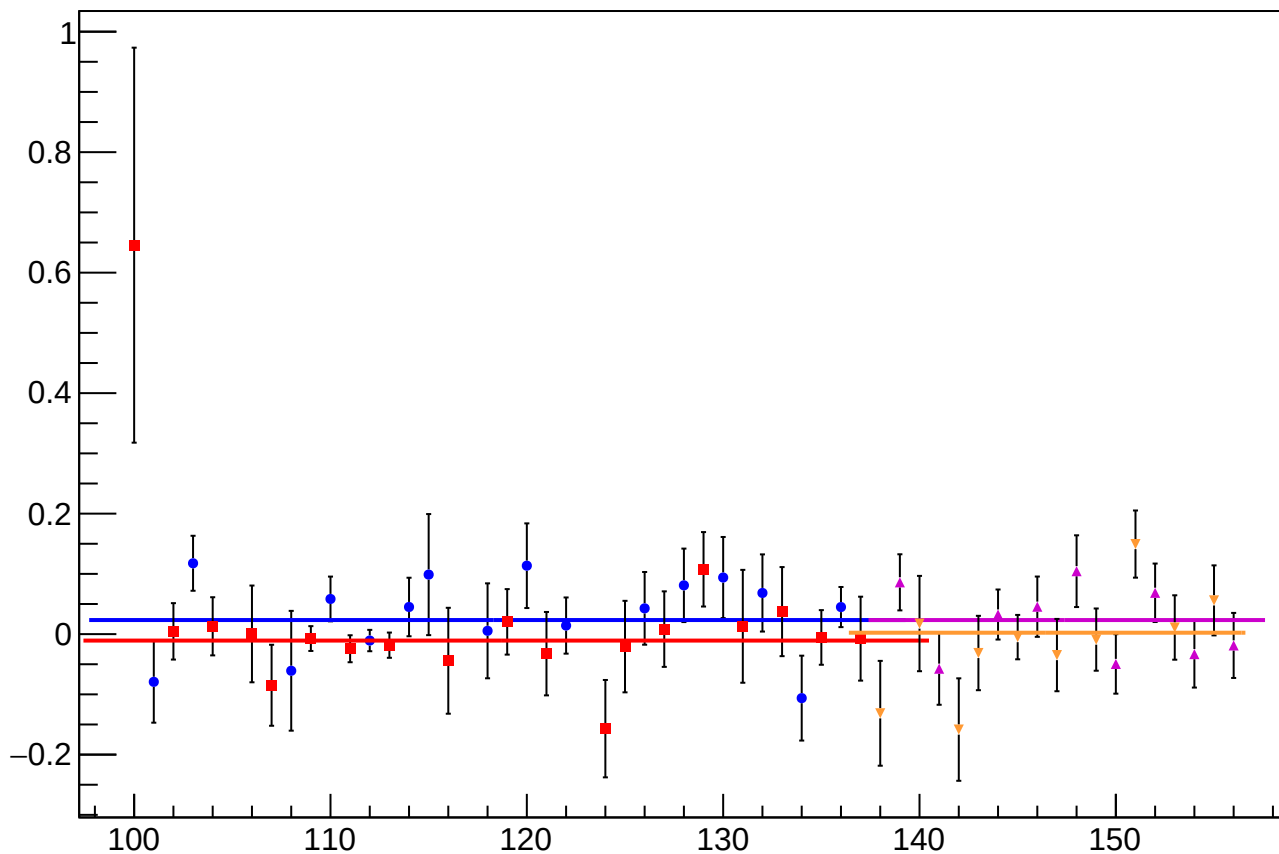
Right: 0.002+/-0.000 χ^2/NDF : 4581712.7/34

In: 0.002+/-0.000 χ^2/NDF : 3346367.8/24

Out: 0.001+/-0.000 χ^2/NDF : 14494278.1/28

All: 0.001+/-0.000 χ^2/NDF : 24180582.2/53

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: 0.002 ± 0.018 $\chi^2/\text{NDF}: 14.6/9$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.023 ± 0.017 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.014 ± 0.012 $\chi^2/\text{NDF}: 25.7/18$

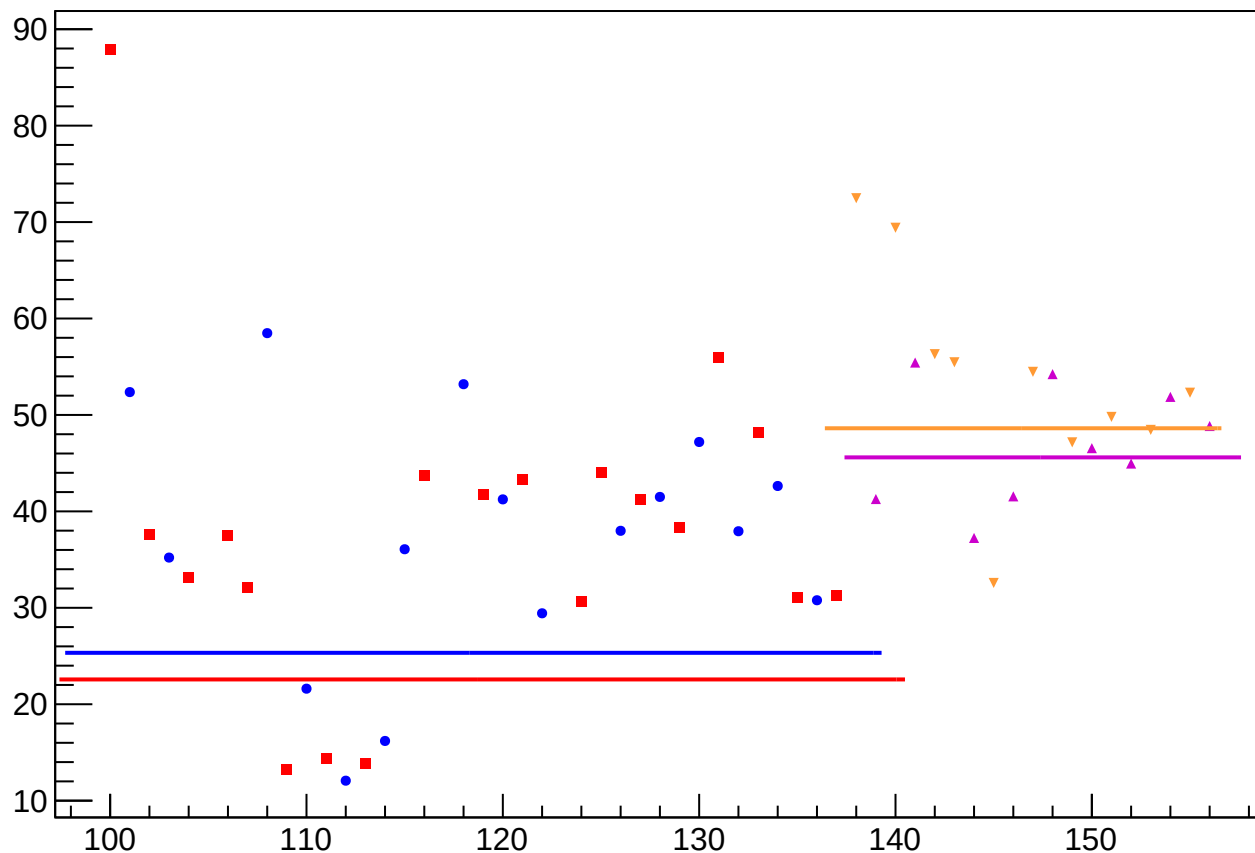
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.023 ± 0.009 $\chi^2/\text{NDF}: 31.2/24$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 29.2/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 66.4/53$

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: 48.618+/-0.013 χ^2/NDF : 738231.6/9

Right Out: 22.571+/-0.007 χ^2/NDF : 3140082.3/18

Left In: 45.599+/-0.012 χ^2/NDF : 241048.6/8

Left: 47.004+/-0.009 χ^2/NDF : 1009005.9/18

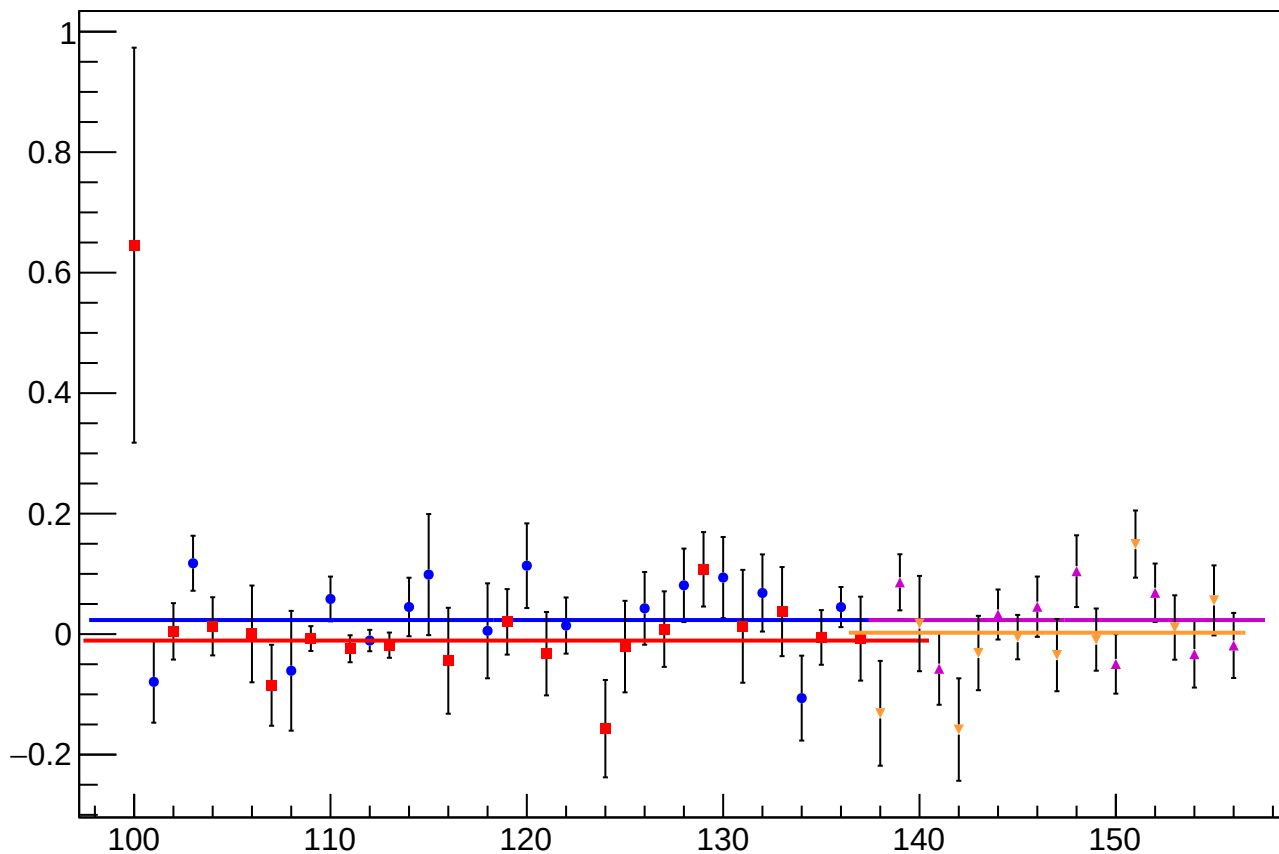
Right: 23.785+/-0.005 χ^2/NDF : 6135400.4/34

In: 31.419+/-0.007 χ^2/NDF : 5180365.4/24

Out: 28.474+/-0.006 χ^2/NDF : 7078825.1/28

All: 29.841+/-0.004 χ^2/NDF : 12367604.6/53

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: 0.002 ± 0.018 $\chi^2/\text{NDF}: 14.6/9$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.023 ± 0.017 $\chi^2/\text{NDF}: 10.4/8$

Left: 0.014 ± 0.012 $\chi^2/\text{NDF}: 25.7/18$

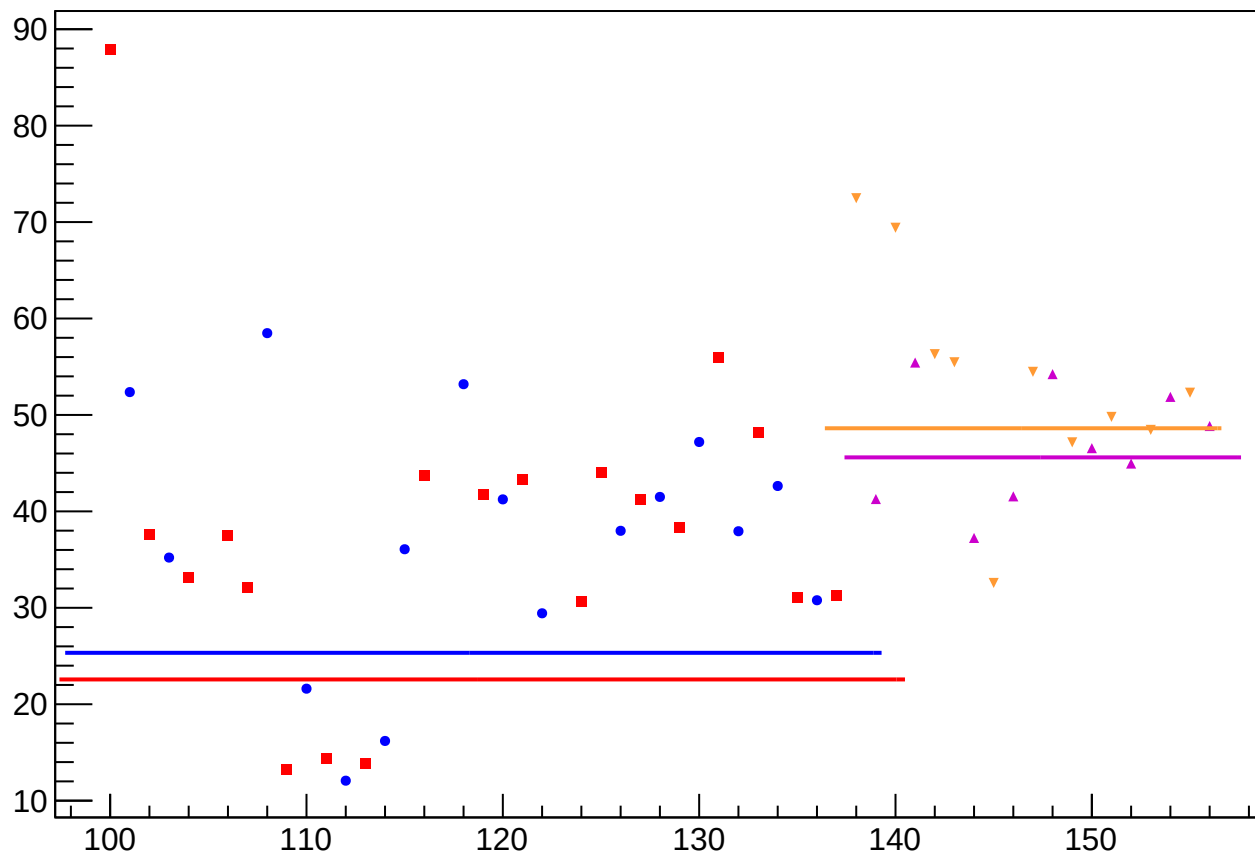
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.023 ± 0.009 $\chi^2/\text{NDF}: 31.2/24$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 29.2/28$

All: 0.007 ± 0.006 $\chi^2/\text{NDF}: 66.4/53$

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: 48.618+/-0.013 χ^2/NDF : 738231.6/9

Right Out: 22.571+/-0.007 χ^2/NDF : 3140082.3/18

Left In: 45.599+/-0.012 χ^2/NDF : 241048.6/8

Left: 47.004+/-0.009 χ^2/NDF : 1009005.9/18

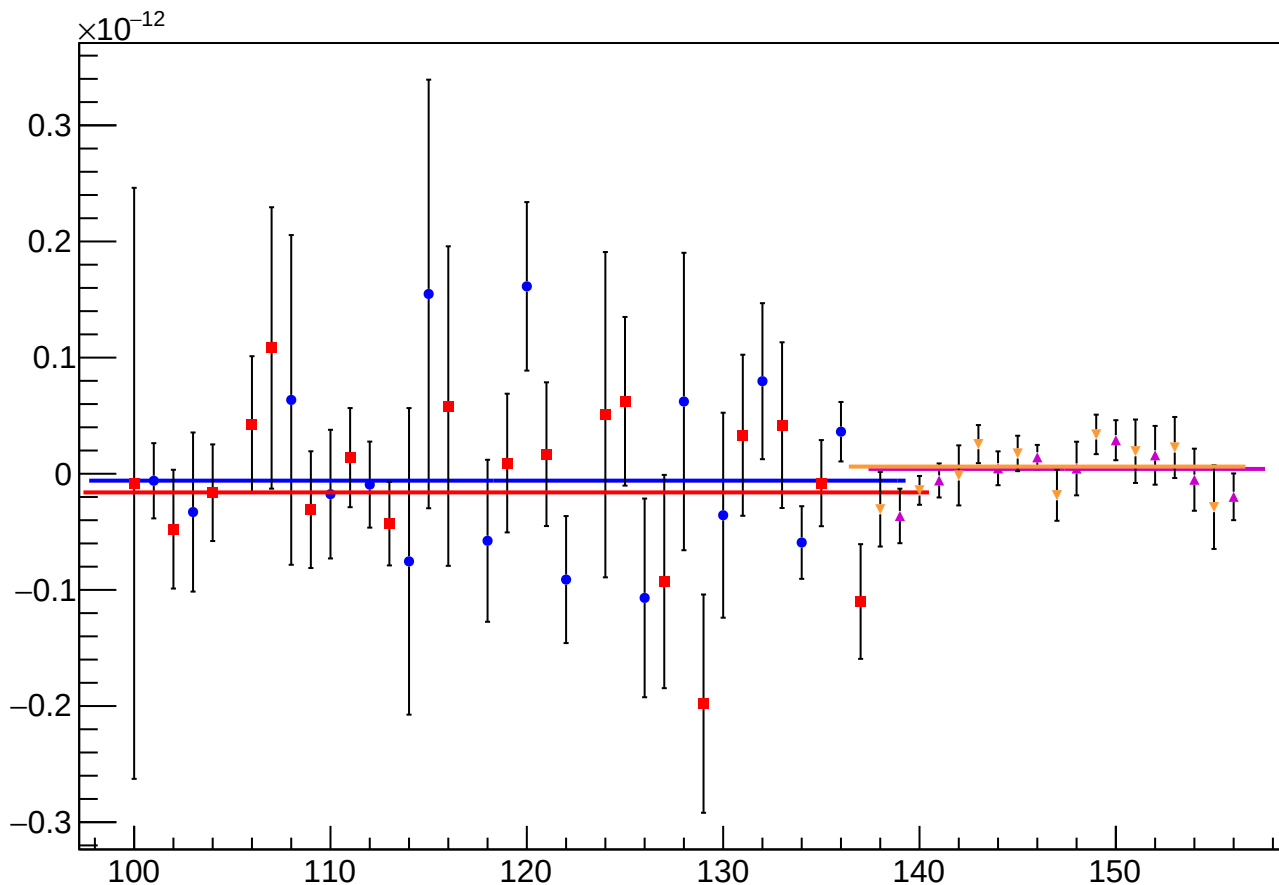
Right: 23.785+/-0.005 χ^2/NDF : 6135400.4/34

In: 31.419+/-0.007 χ^2/NDF : 5180365.4/24

Out: 28.474+/-0.006 χ^2/NDF : 7078825.1/28

All: 29.841+/-0.004 χ^2/NDF : 12367604.6/53

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 : 11.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.1/8

Left: 0.000+/-0.000 χ^2/NDF : 19.7/18

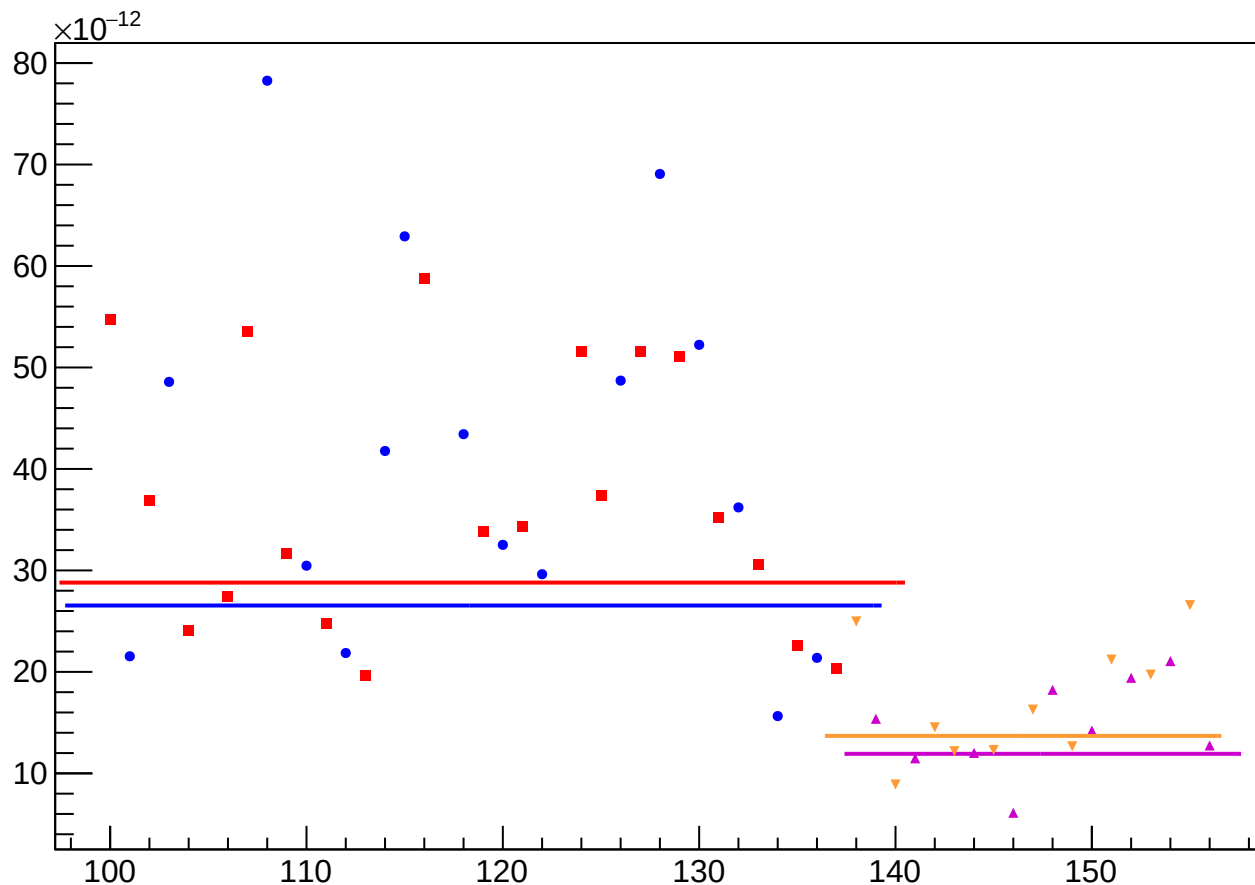
Right: -0.000+/-0.000 χ^2/NDF : 34.1/34

In: 0.000+/-0.000 χ^2/NDF : 27.5/24

Out: 0.000+/-0.000 χ^2/NDF : 28.8/28

All: 0.000+/-0.000 χ^2/NDF : 56.3/53

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 : 1128752.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 910681.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1232031.2/8

Left: 0.000+/-0.000 χ^2/NDF : 2448724.3/18

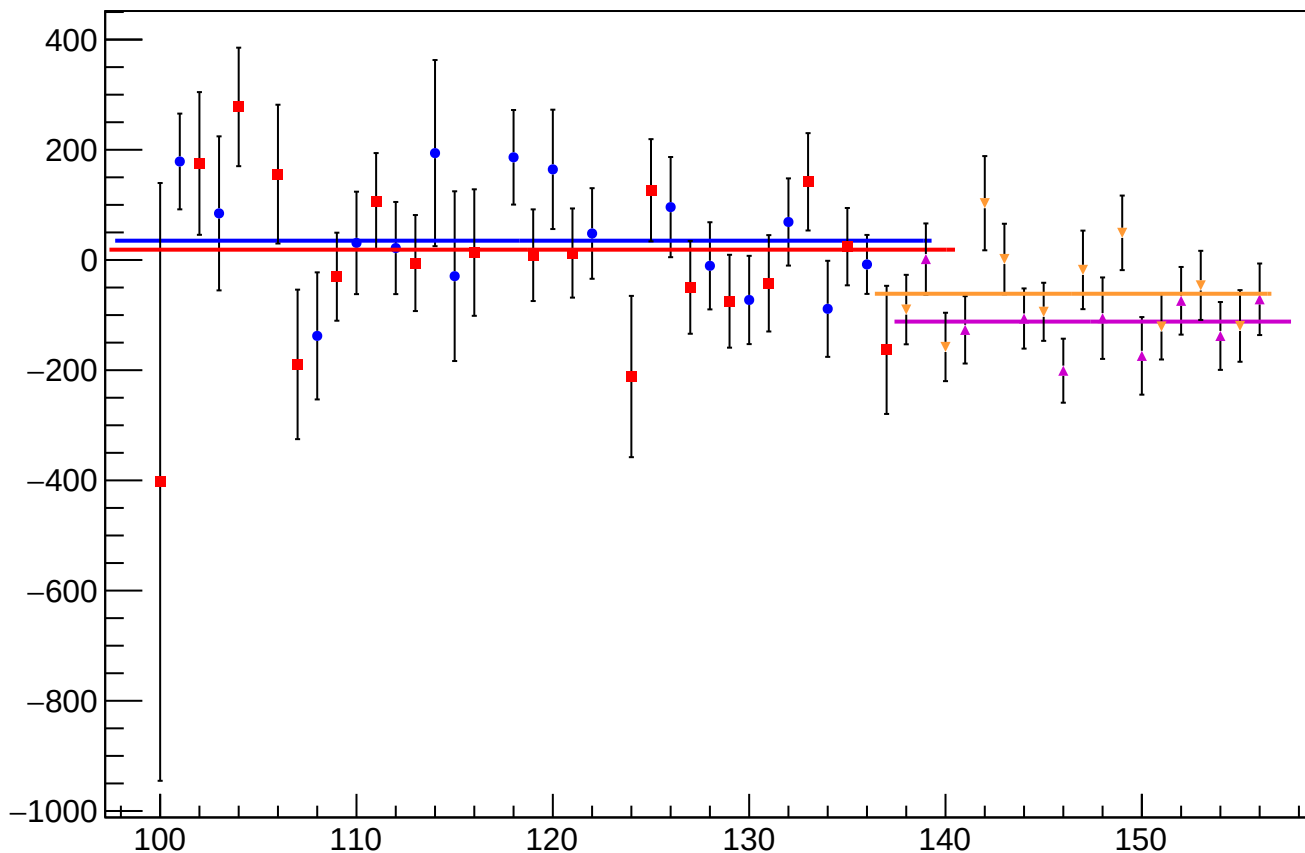
Right: 0.000+/-0.000 χ^2/NDF : 2634482.2/34

In: 0.000+/-0.000 χ^2/NDF : 5123564.0/24

Out: 0.000+/-0.000 χ^2/NDF : 4161692.9/28

All: 0.000+/-0.000 χ^2/NDF : 9422485.0/53

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.018 ± 22.134 $\chi^2/\text{NDF}: 16.2/15$

Left Out: -61.285 ± 20.257 $\chi^2/\text{NDF}: 12.6/9$

Right Out: 18.690 ± 22.137 $\chi^2/\text{NDF}: 23.5/18$

Left In: -111.832 ± 20.898 $\chi^2/\text{NDF}: 7.2/8$

Left: -85.771 ± 14.545 $\chi^2/\text{NDF}: 22.8/18$

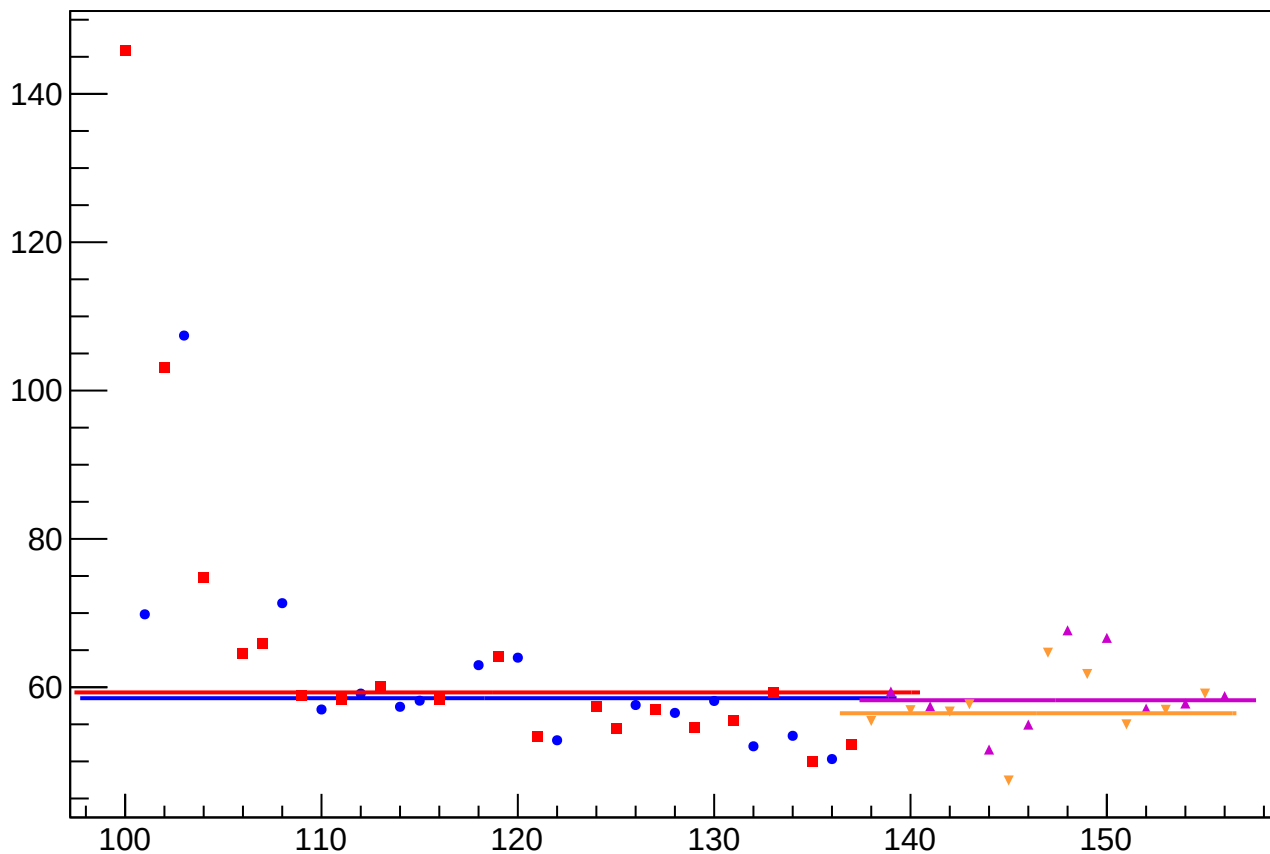
Right: 26.855 ± 15.652 $\chi^2/\text{NDF}: 40.0/34$

In: -42.621 ± 15.196 $\chi^2/\text{NDF}: 46.7/24$

Out: -24.836 ± 14.945 $\chi^2/\text{NDF}: 43.2/28$

All: -33.580 ± 10.655 $\chi^2/\text{NDF}: 90.6/53$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522+/-0.016 χ^2/NDF : 392742.4/15

Left Out: 56.491+/-0.014 χ^2/NDF : 103735.1/9

Right Out: 59.301+/-0.016 χ^2/NDF : 406611.5/18

Left In: 58.246+/-0.015 χ^2/NDF : 99045.9/8

Left: 57.341+/-0.010 χ^2/NDF : 210057.3/18

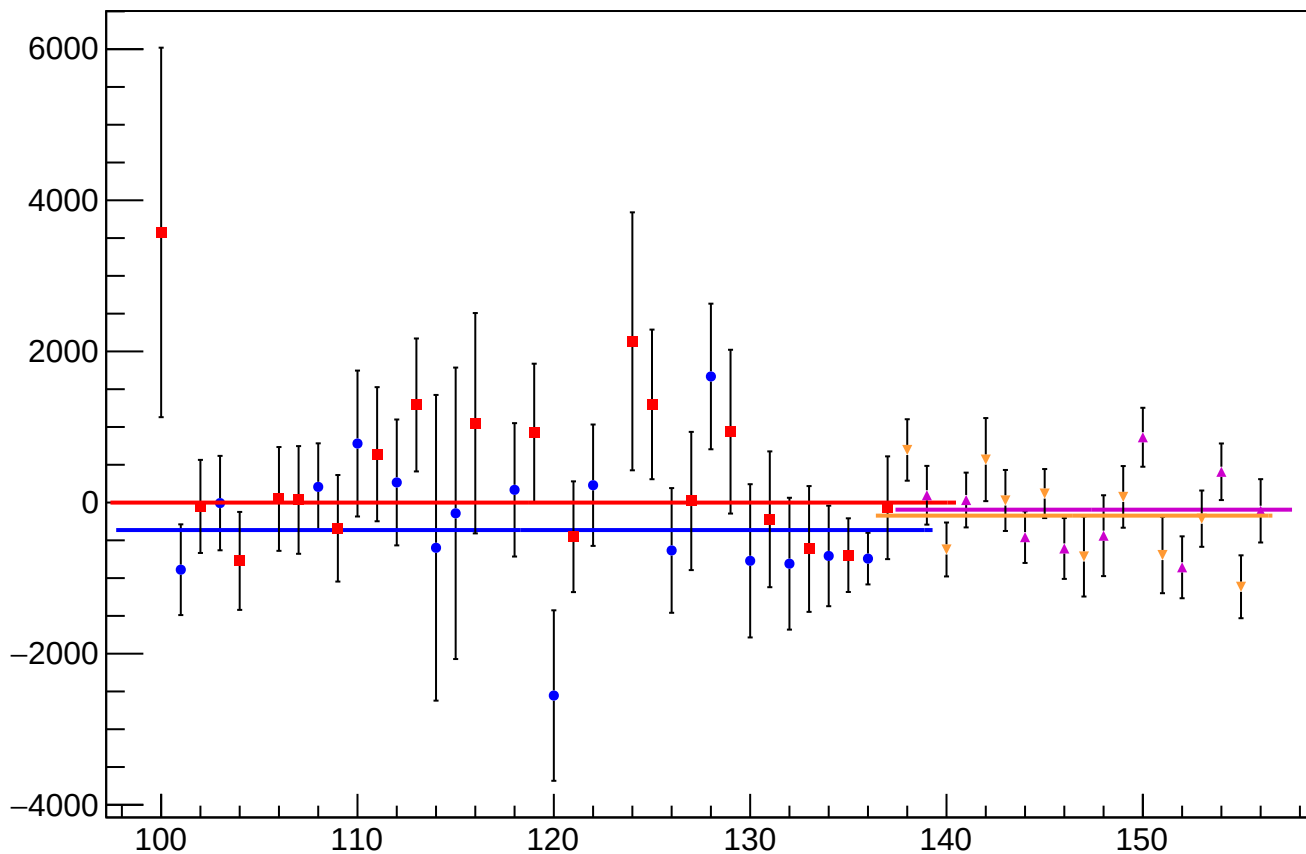
Right: 58.911+/-0.011 χ^2/NDF : 800594.3/34

In: 58.376+/-0.011 χ^2/NDF : 491952.0/24

Out: 57.772+/-0.011 χ^2/NDF : 527891.8/28

All: 58.069+/-0.008 χ^2/NDF : 1021452.3/53

asym_sam_13_57_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -364.076 $\pm$ 180.601 χ^2 /NDF: 15.2/15

Left Out: -173.192 $\pm$ 129.850 χ^2 /NDF:16.6/9

Right Out: -0.570 $\pm$ 183.085 χ^2 /NDF: 15.1/18

Left In: -94.359 $\pm$ 131.516 χ^2 /NDF:14.8/8

Left: -134.278 $\pm$ 92.401 χ^2 /NDF: 31.6/18

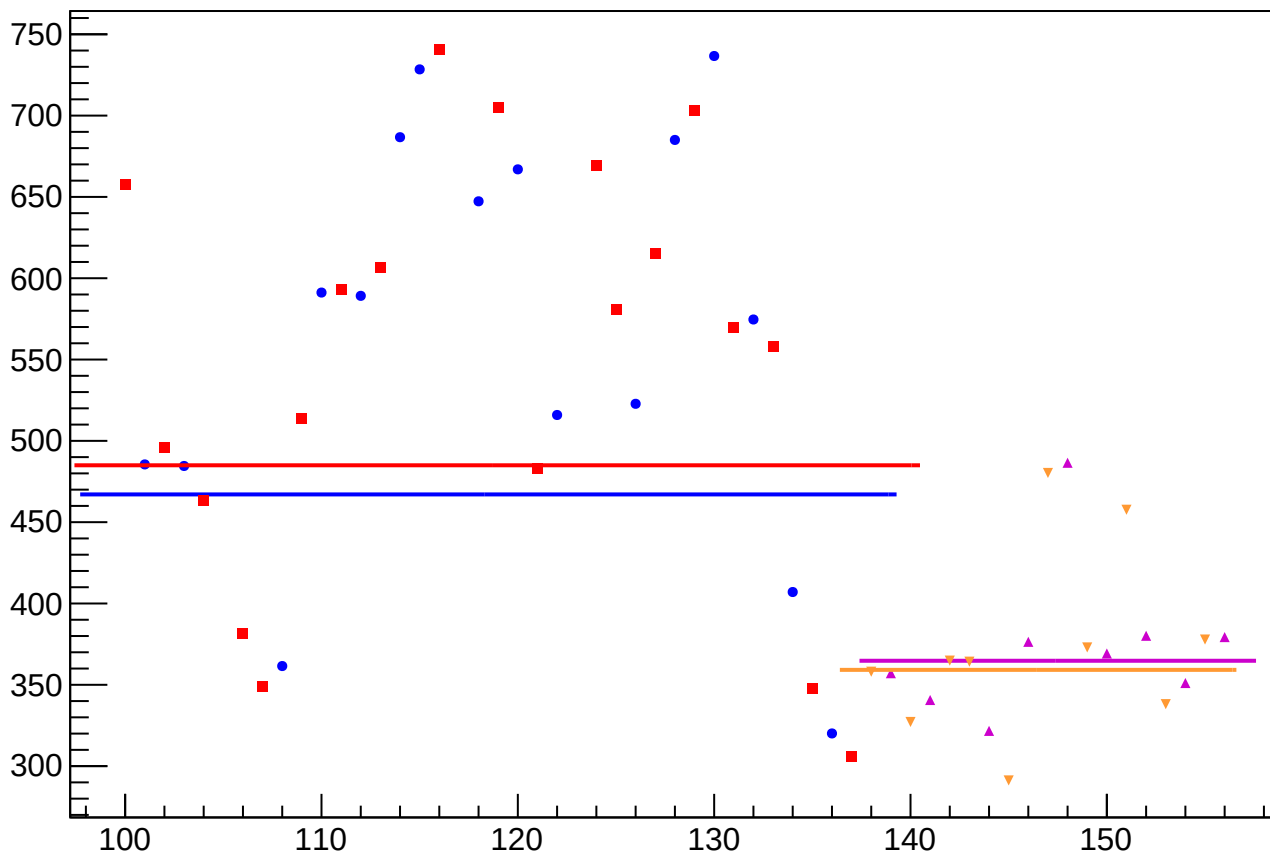
Right: -184.806 $\pm$ 128.573 χ^2 /NDF: 32.3/34

In: -187.824 $\pm$ 106.314 χ^2 /NDF:31.5/24

Out: -115.421 $\pm$ 105.916 χ^2 /NDF:32.3/28

All: -151.487 $\pm$ 75.034 χ^2 /NDF: 64.0/53

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 467.068+/-0.128 χ^2/NDF : 1030279.0/15

Left Out: 359.188+/-0.092 χ^2/NDF : 297418.2/9

Right Out: 484.982+/-0.129 χ^2/NDF : 874102.2/18

Left In: 364.784+/-0.093 χ^2/NDF : 154863.9/8

Left: 361.950+/-0.065 χ^2/NDF : 454115.7/18

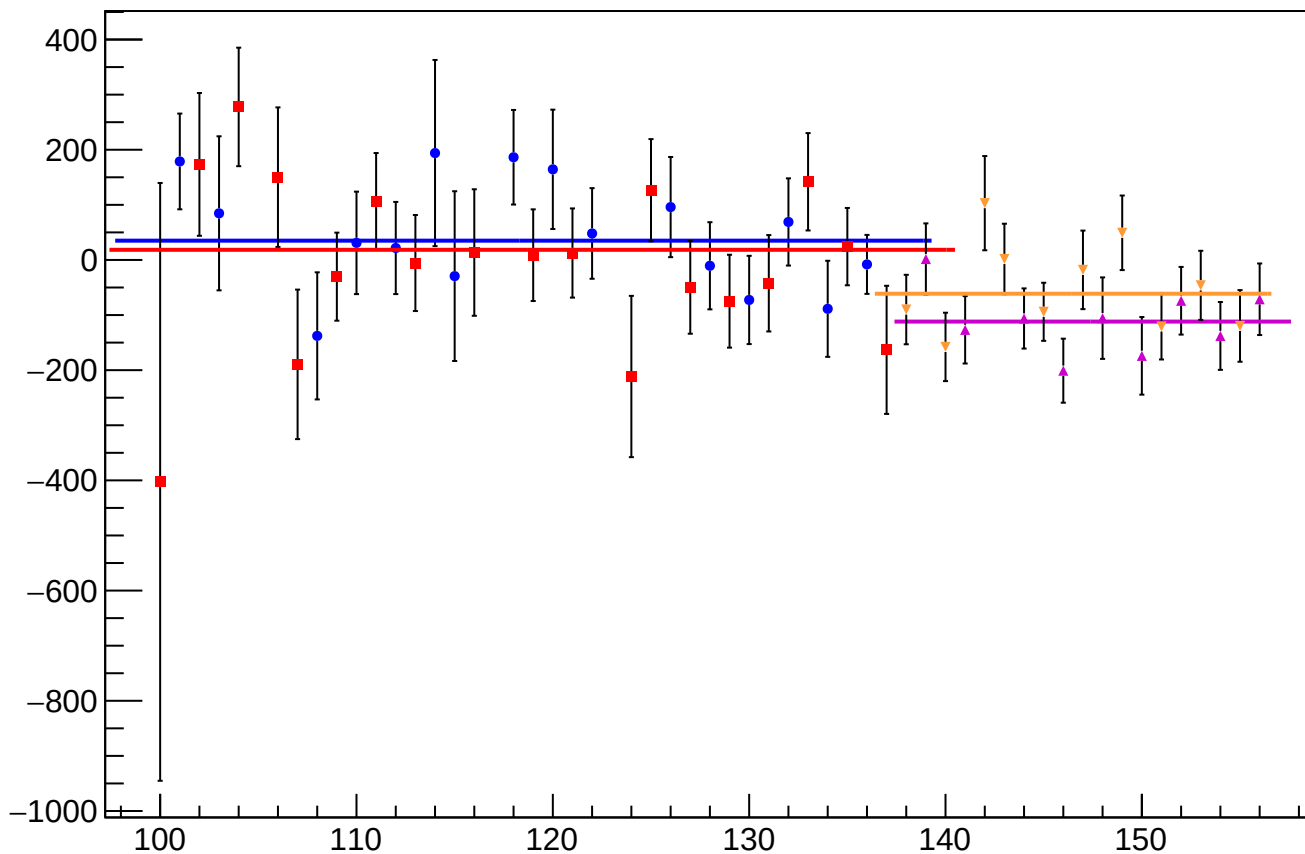
Right: 475.902+/-0.091 χ^2/NDF : 1914085.4/34

In: 400.229+/-0.075 χ^2/NDF : 1604353.4/24

Out: 401.287+/-0.075 χ^2/NDF : 1799694.2/28

All: 400.760+/-0.053 χ^2/NDF : 3404147.1/53

cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 ± 22.134 $\chi^2/\text{NDF}: 16.2/15$

Left Out: -61.285 ± 20.257 $\chi^2/\text{NDF}: 12.6/9$

Right Out: 18.417 ± 22.141 $\chi^2/\text{NDF}: 23.4/18$

Left In: -111.832 ± 20.898 $\chi^2/\text{NDF}: 7.2/8$

Left: -85.771 ± 14.545 $\chi^2/\text{NDF}: 22.8/18$

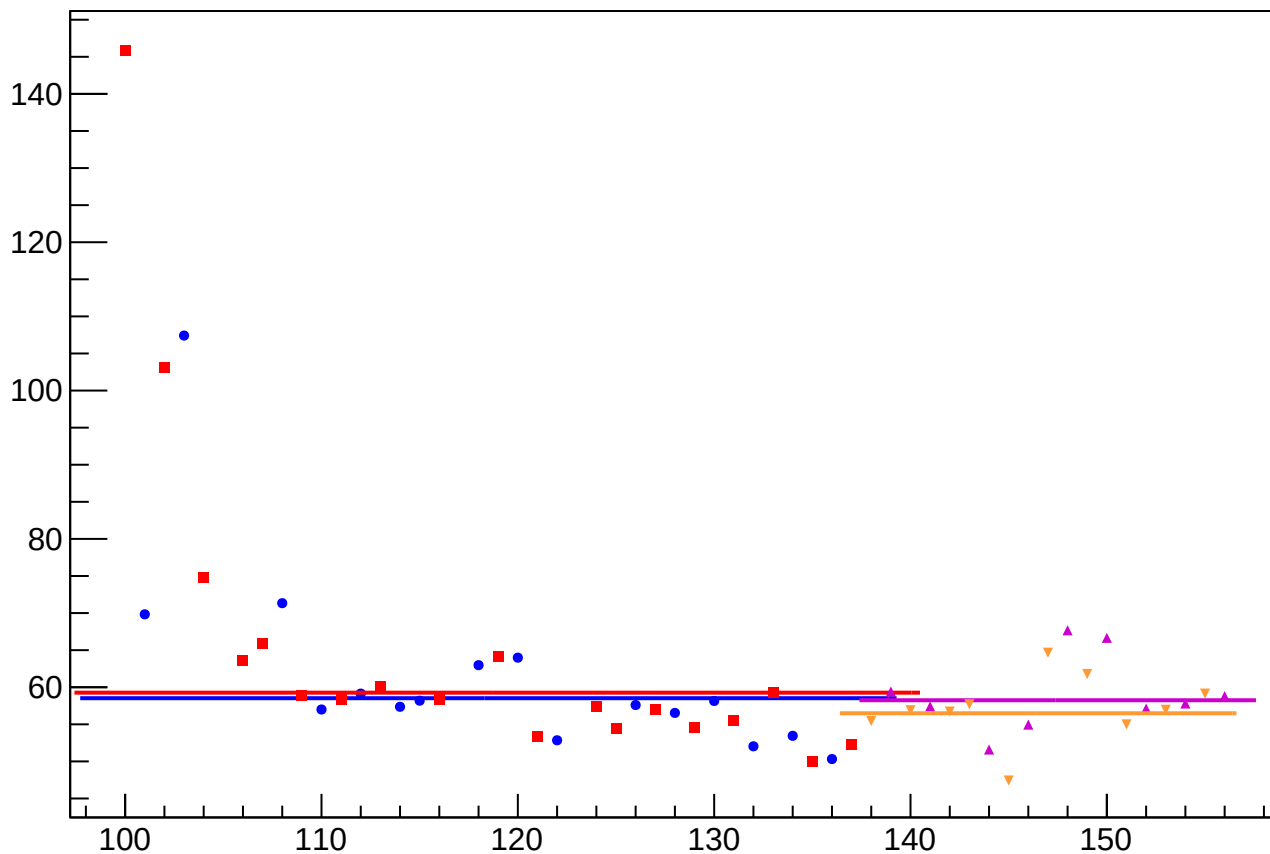
Right: 26.719 ± 15.654 $\chi^2/\text{NDF}: 39.8/34$

In: -42.622 ± 15.196 $\chi^2/\text{NDF}: 46.7/24$

Out: -24.968 ± 14.946 $\chi^2/\text{NDF}: 43.0/28$

All: -33.649 ± 10.655 $\chi^2/\text{NDF}: 90.4/53$

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: 56.491 $\pm$ 0.014 χ^2 /NDF: 103735.1/9

Right Out: 59.269 $\pm$ 0.016 χ^2 /NDF: 405616.3/18

Left In: 58.246 $\pm$ 0.015 χ^2 /NDF: 99045.9/8

Left: 57.341 $\pm$ 0.010 χ^2 /NDF: 210057.4/18

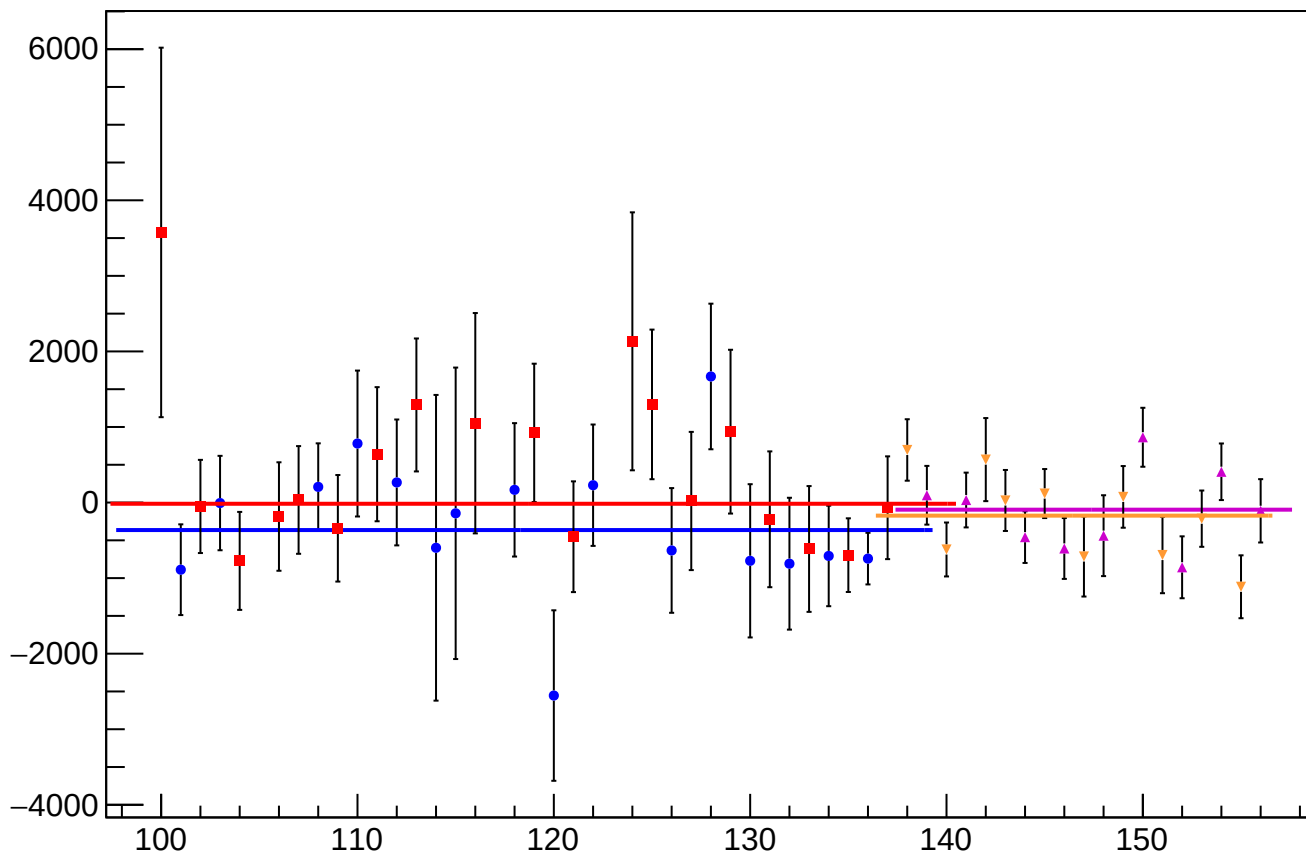
Right: 58.895 $\pm$ 0.011 χ^2 /NDF: 799501.8/34

In: 58.376 $\pm$ 0.011 χ^2 /NDF: 491954.0/24

Out: 57.757 $\pm$ 0.011 χ^2 /NDF: 526498.1/28

All: 58.061 $\pm$ 0.008 χ^2 /NDF: 1020140.0/53

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: -173.194 $\pm$ 129.850 χ^2 /NDF:16.6/9

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: -94.358 $\pm$ 131.516 χ^2 /NDF:14.8/8

Left: -134.278 $\pm$ 92.401 χ^2 /NDF: 31.6/18

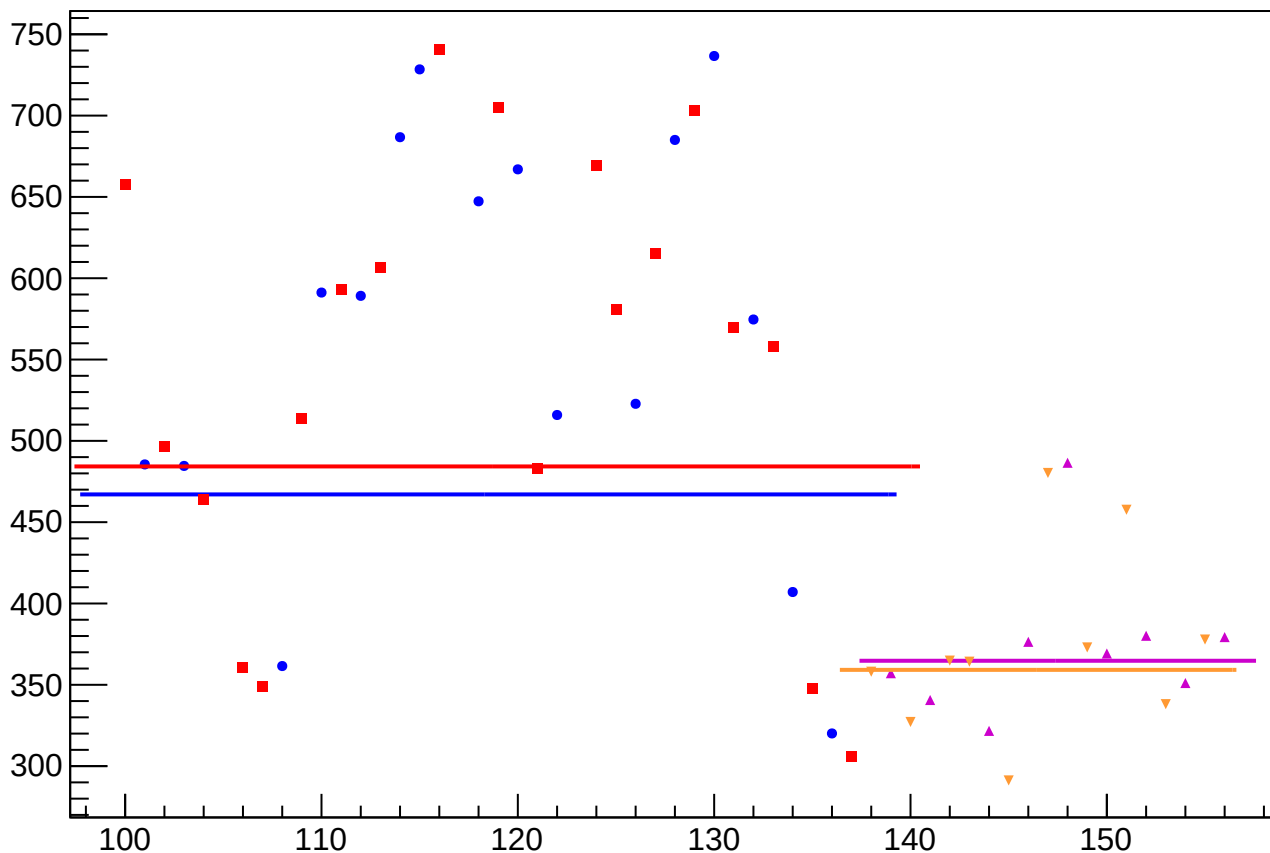
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -187.810 $\pm$ 106.314 χ^2 /NDF:31.5/24

Out: -120.831 $\pm$ 106.025 χ^2 /NDF:32.2/28

All: -154.229 $\pm$ 75.073 χ^2 /NDF: 64.0/53

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: 359.188+/-0.092 χ^2/NDF : 297419.3/9

Right Out: 484.274+/-0.130 χ^2/NDF : 888797.2/18

Left In: 364.784+/-0.093 χ^2/NDF : 154863.3/8

Left: 361.950+/-0.065 χ^2/NDF : 454116.4/18

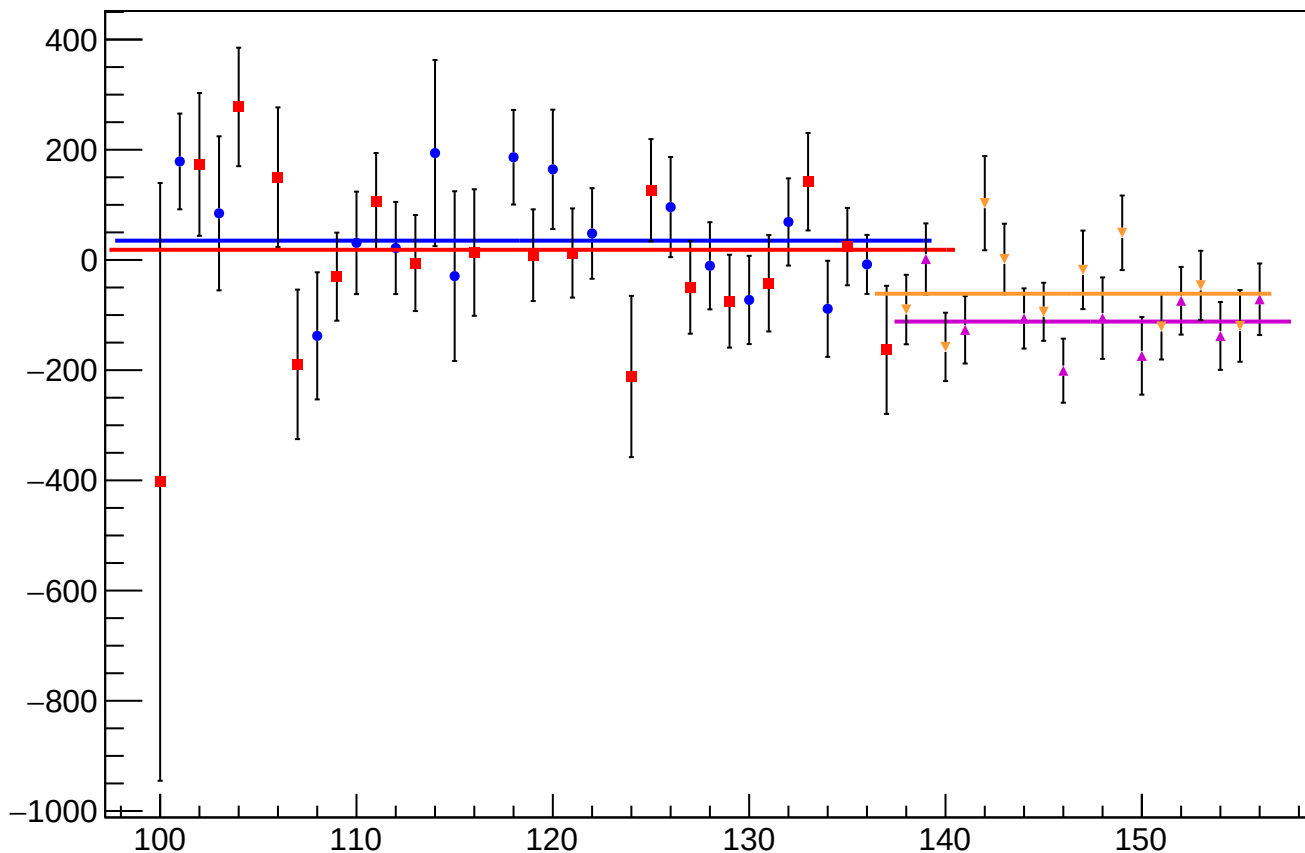
Right: 475.528+/-0.091 χ^2/NDF : 1928000.1/34

In: 400.229+/-0.075 χ^2/NDF : 1604372.2/24

Out: 400.879+/-0.075 χ^2/NDF : 1804795.6/28

All: 400.555+/-0.053 χ^2/NDF : 3409205.1/53

eigen_cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 ± 22.134 χ^2/NDF : 16.2/15

Left Out: -61.285 ± 20.257 χ^2/NDF : 12.6/9

Right Out: 18.417 ± 22.141 χ^2/NDF : 23.4/18

Left In: -111.832 ± 20.898 χ^2/NDF : 7.2/8

Left: -85.771 ± 14.545 χ^2/NDF : 22.8/18

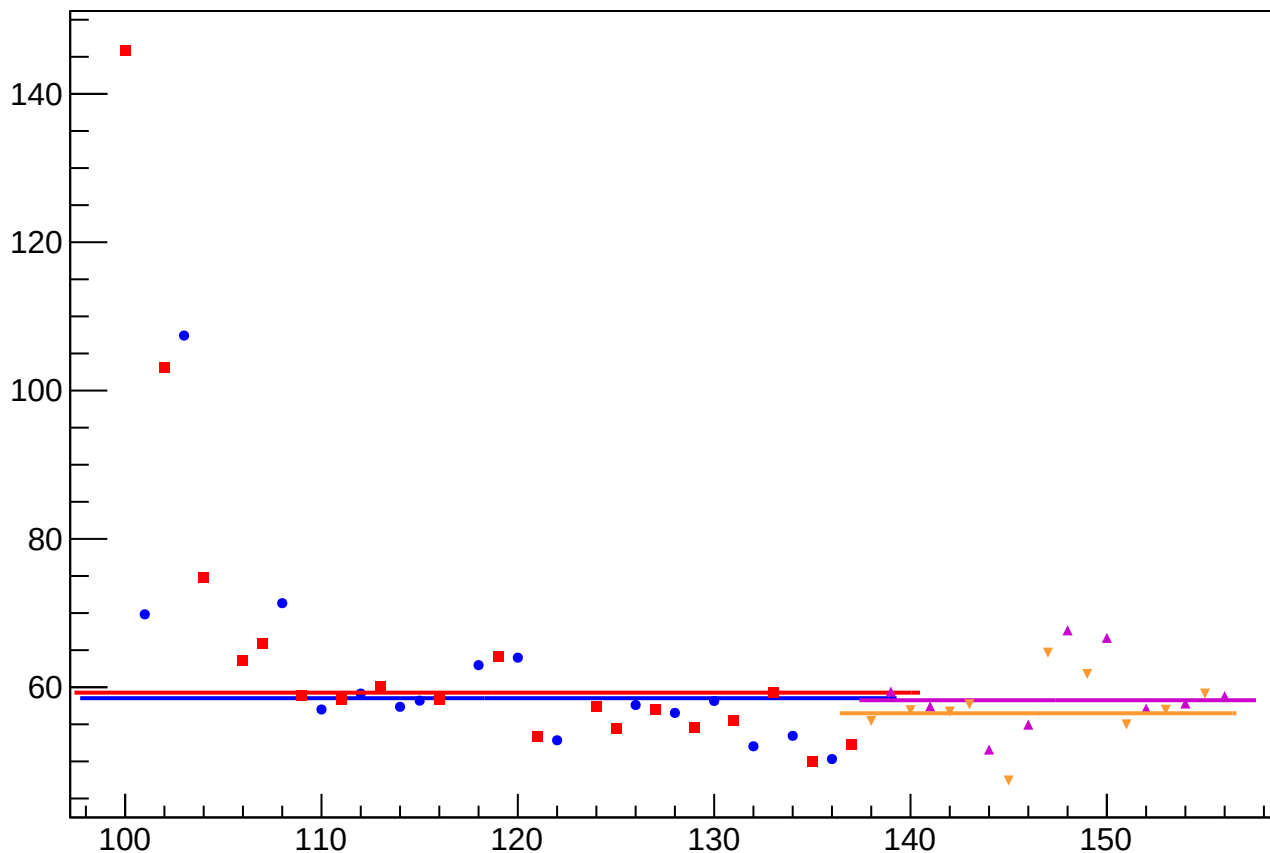
Right: 26.719 ± 15.654 χ^2/NDF : 39.8/34

In: -42.622 ± 15.196 χ^2/NDF : 46.7/24

Out: -24.968 ± 14.946 χ^2/NDF : 43.0/28

All: -33.649 ± 10.655 χ^2/NDF : 90.4/53

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: 56.491 $\pm$ 0.014 χ^2 /NDF: 103735.1/9

Right Out: 59.269 $\pm$ 0.016 χ^2 /NDF: 405616.3/18

Left In: 58.246 $\pm$ 0.015 χ^2 /NDF: 99045.9/8

Left: 57.341 $\pm$ 0.010 χ^2 /NDF: 210057.4/18

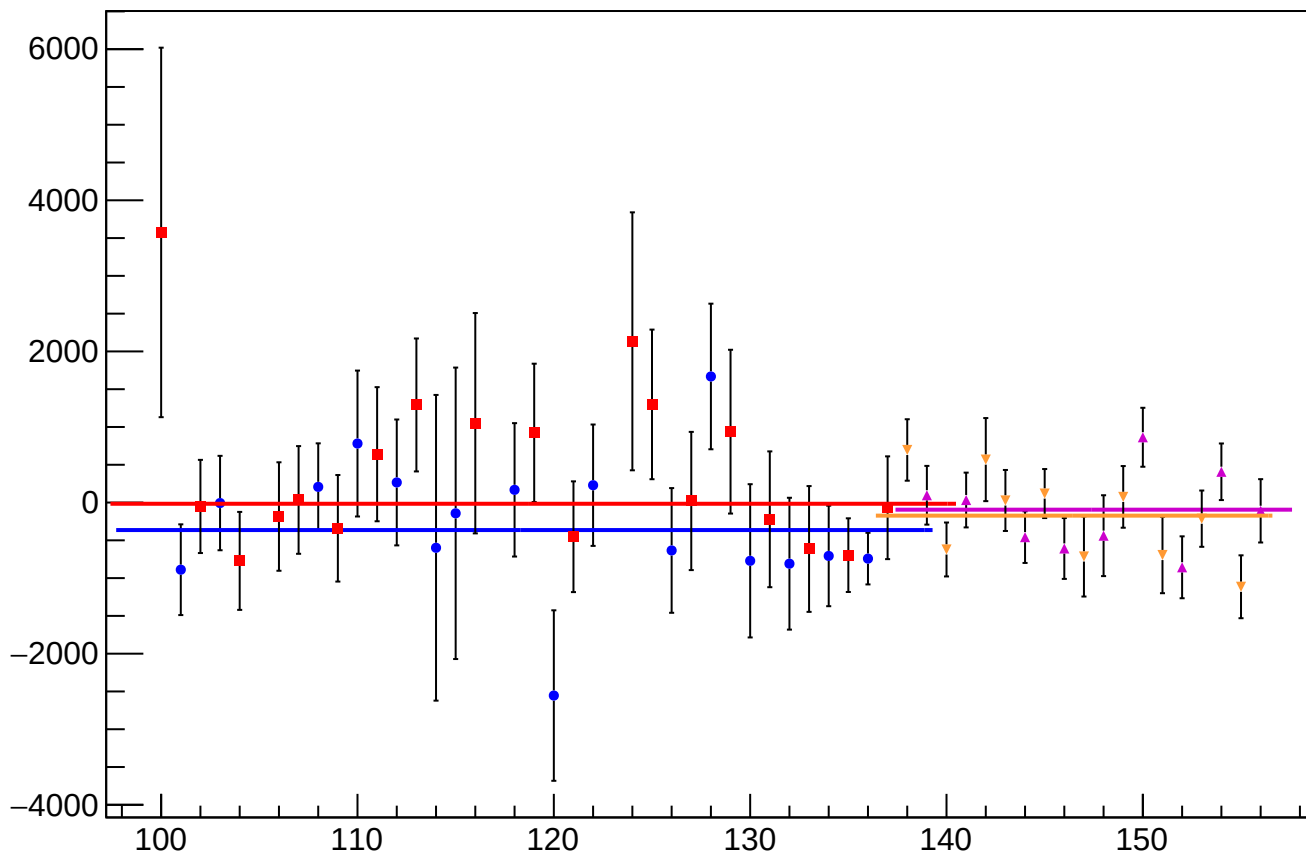
Right: 58.895 $\pm$ 0.011 χ^2 /NDF: 799501.8/34

In: 58.376 $\pm$ 0.011 χ^2 /NDF: 491954.0/24

Out: 57.757 $\pm$ 0.011 χ^2 /NDF: 526498.1/28

All: 58.061 $\pm$ 0.008 χ^2 /NDF: 1020140.0/53

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: -173.194 $\pm$ 129.850 χ^2 /NDF:16.6/9

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: -94.358 $\pm$ 131.516 χ^2 /NDF:14.8/8

Left: -134.278 $\pm$ 92.401 χ^2 /NDF: 31.6/18

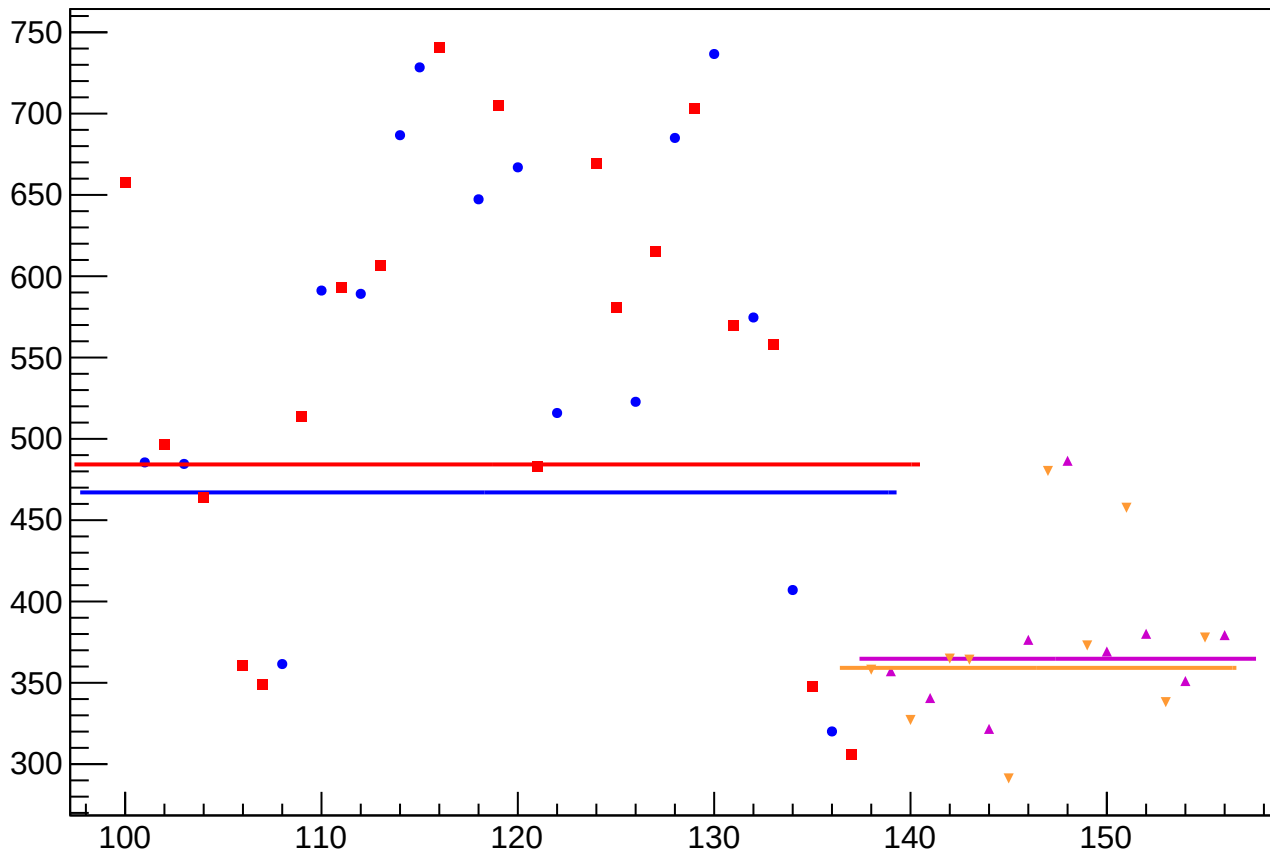
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -187.810 $\pm$ 106.314 χ^2 /NDF:31.5/24

Out: -120.831 $\pm$ 106.025 χ^2 /NDF:32.2/28

All: -154.229 $\pm$ 75.073 χ^2 /NDF: 64.0/53

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 467.071 ± 0.128 $\chi^2/\text{NDF}: 1030281.3/15$

Left Out: 359.188 ± 0.092 $\chi^2/\text{NDF}: 297419.3/9$

Right Out: 484.274 ± 0.130 $\chi^2/\text{NDF}: 888797.2/18$

Left In: 364.784 ± 0.093 $\chi^2/\text{NDF}: 154863.3/8$

Left: 361.950 ± 0.065 $\chi^2/\text{NDF}: 454116.4/18$

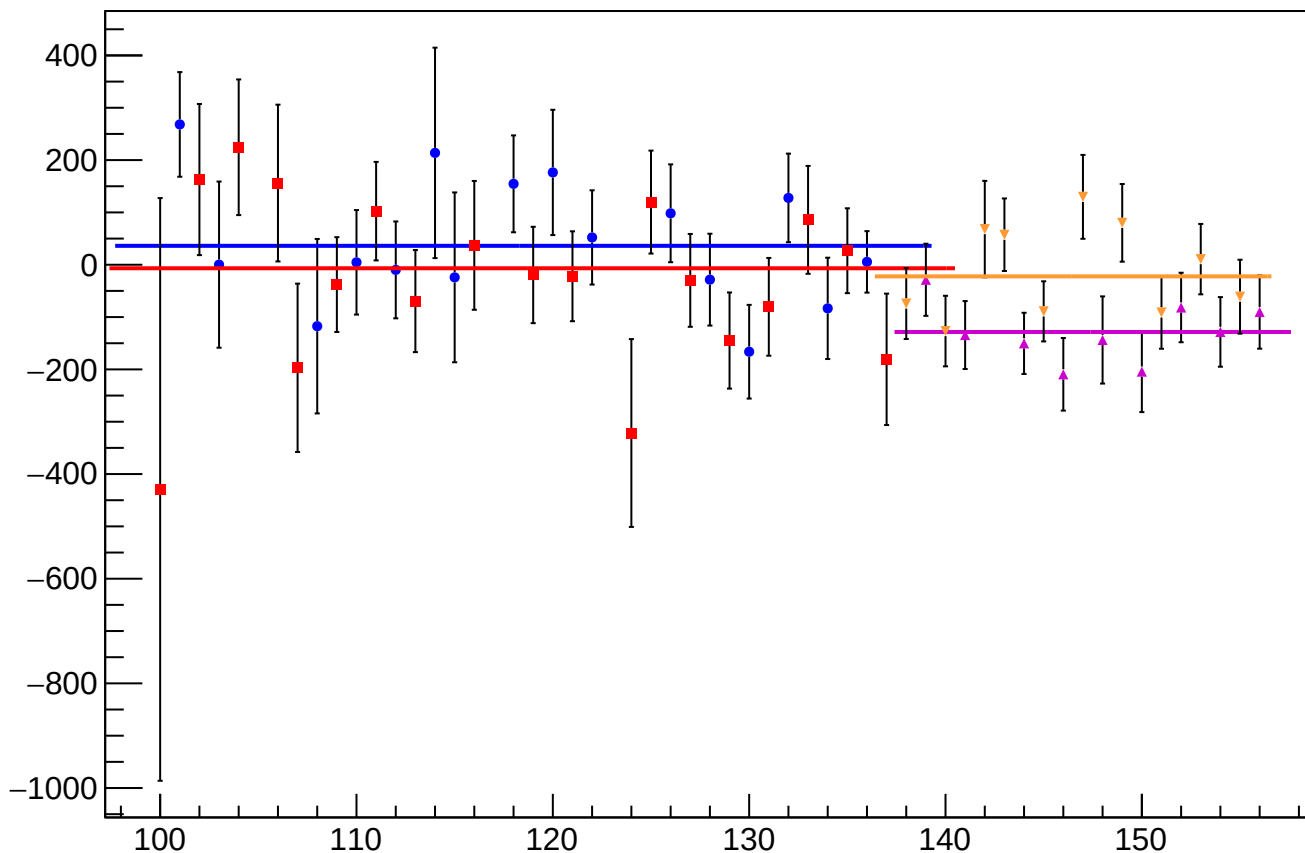
Right: 475.528 ± 0.091 $\chi^2/\text{NDF}: 1928000.1/34$

In: 400.229 ± 0.075 $\chi^2/\text{NDF}: 1604372.2/24$

Out: 400.879 ± 0.075 $\chi^2/\text{NDF}: 1804795.6/28$

All: 400.555 ± 0.053 $\chi^2/\text{NDF}: 3409205.1/53$

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: -22.239 ± 22.176 $\chi^2/\text{NDF}: 13.7/9$

Right Out: -6.734 ± 24.565 $\chi^2/\text{NDF}: 20.3/18$

Left In: -128.489 ± 22.847 $\chi^2/\text{NDF}: 5.4/8$

Left: -73.779 ± 15.913 $\chi^2/\text{NDF}: 30.2/18$

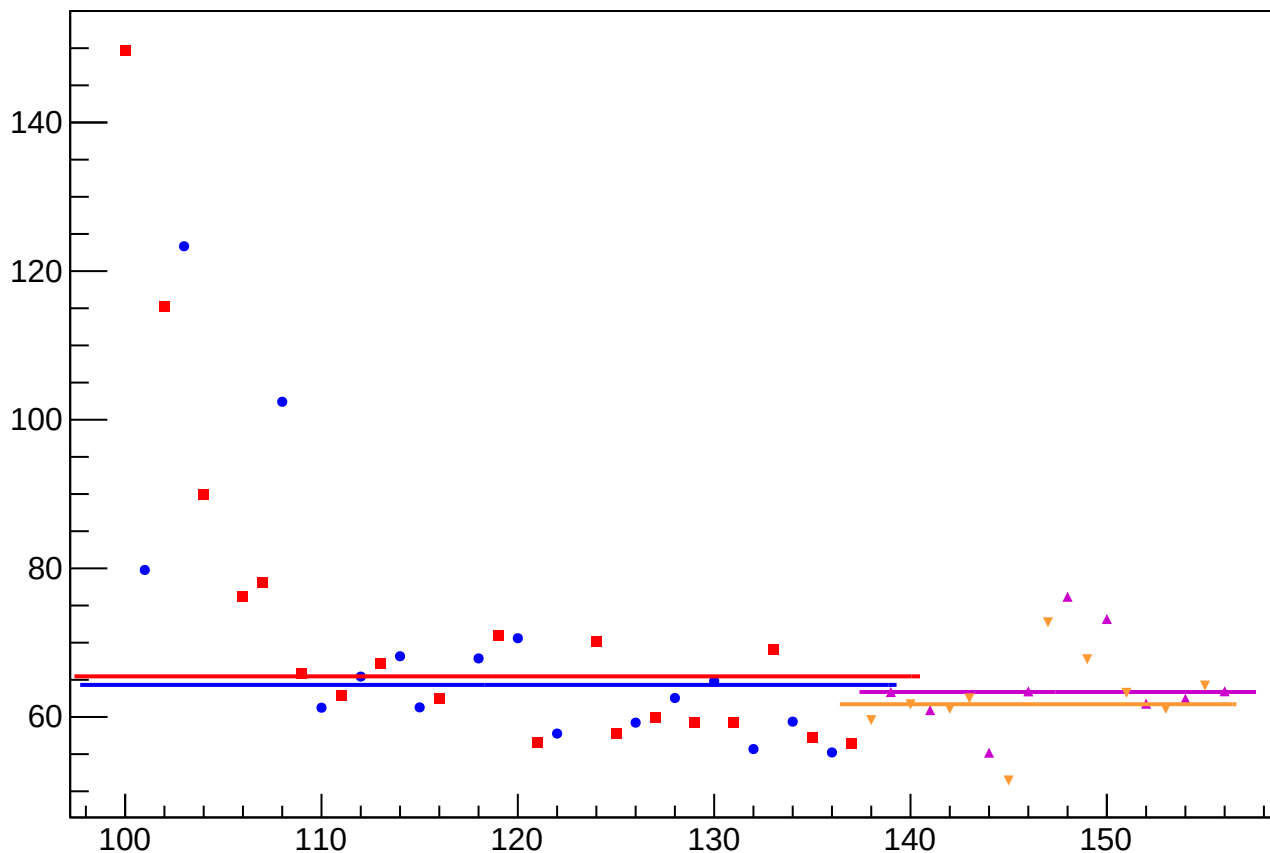
Right: 14.793 ± 17.337 $\chi^2/\text{NDF}: 41.5/34$

In: -51.810 ± 16.700 $\chi^2/\text{NDF}: 49.2/24$

Out: -15.277 ± 16.461 $\chi^2/\text{NDF}: 34.2/28$

All: -33.279 ± 11.723 $\chi^2/\text{NDF}: 85.9/53$

dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.316 $\pm$ 0.017 χ^2/NDF : 532065.0/15

Left Out: 61.717 $\pm$ 0.016 χ^2/NDF : 120979.9/9

Right Out: 65.466 $\pm$ 0.017 χ^2/NDF : 482361.0/18

Left In: 63.362 $\pm$ 0.016 χ^2/NDF : 122914.2/8

Left: 62.515 $\pm$ 0.011 χ^2/NDF : 249237.1/18

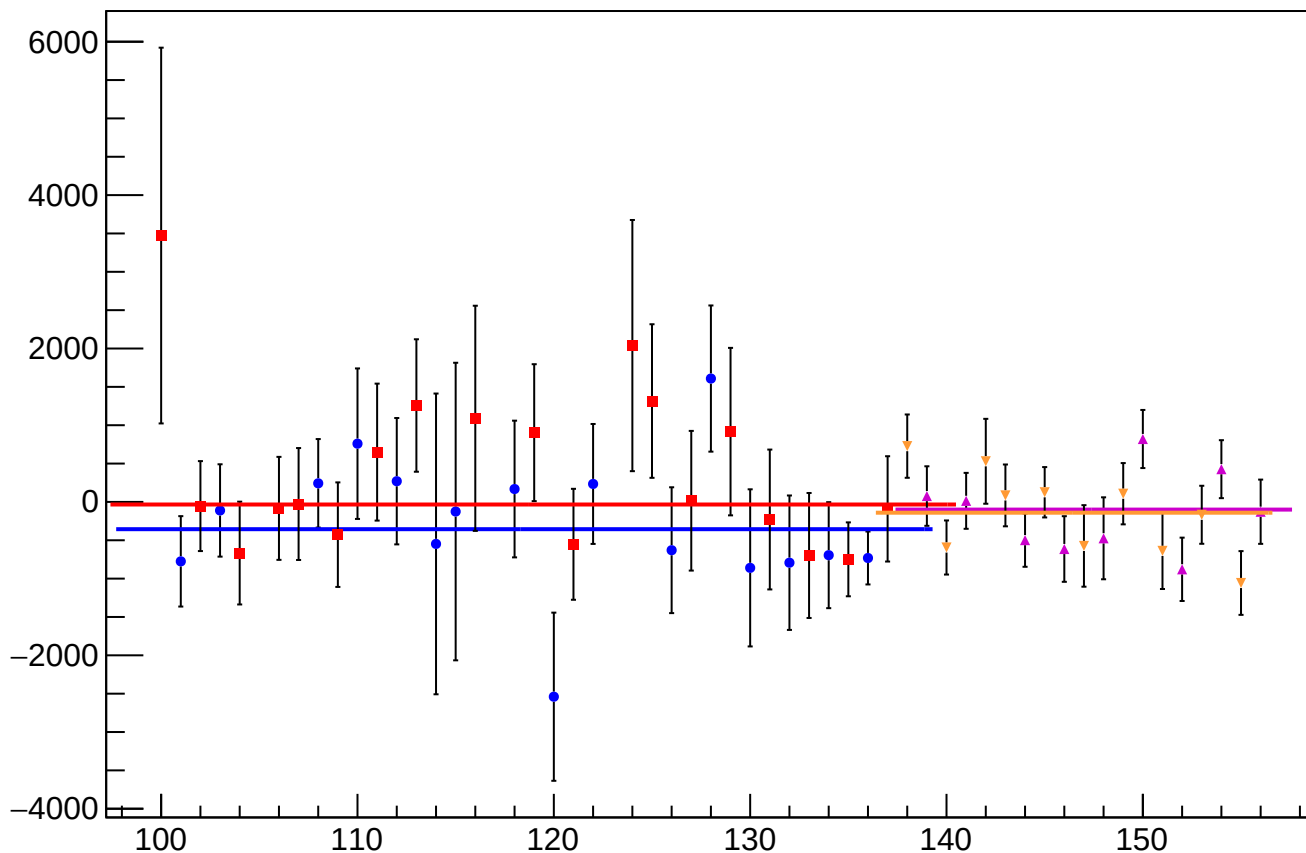
Right: 64.889 $\pm$ 0.012 χ^2/NDF : 1016625.1/34

In: 63.807 $\pm$ 0.012 χ^2/NDF : 656603.2/24

Out: 63.400 $\pm$ 0.012 χ^2/NDF : 629013.8/28

All: 63.600 $\pm$ 0.008 χ^2/NDF : 1286217.8/53

asym_sam_13_57_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529 $\pm$ 180.335 χ^2 /NDF: 14.8/15

Left Out: -140.524 $\pm$ 129.916 χ^2 /NDF:15.4/9

Right Out: -33.786 $\pm$ 181.561 χ^2 /NDF: 15.4/18

Left In: -100.090 $\pm$ 132.529 χ^2 /NDF:15.0/8

Left: -120.710 $\pm$ 92.775 χ^2 /NDF: 30.4/18

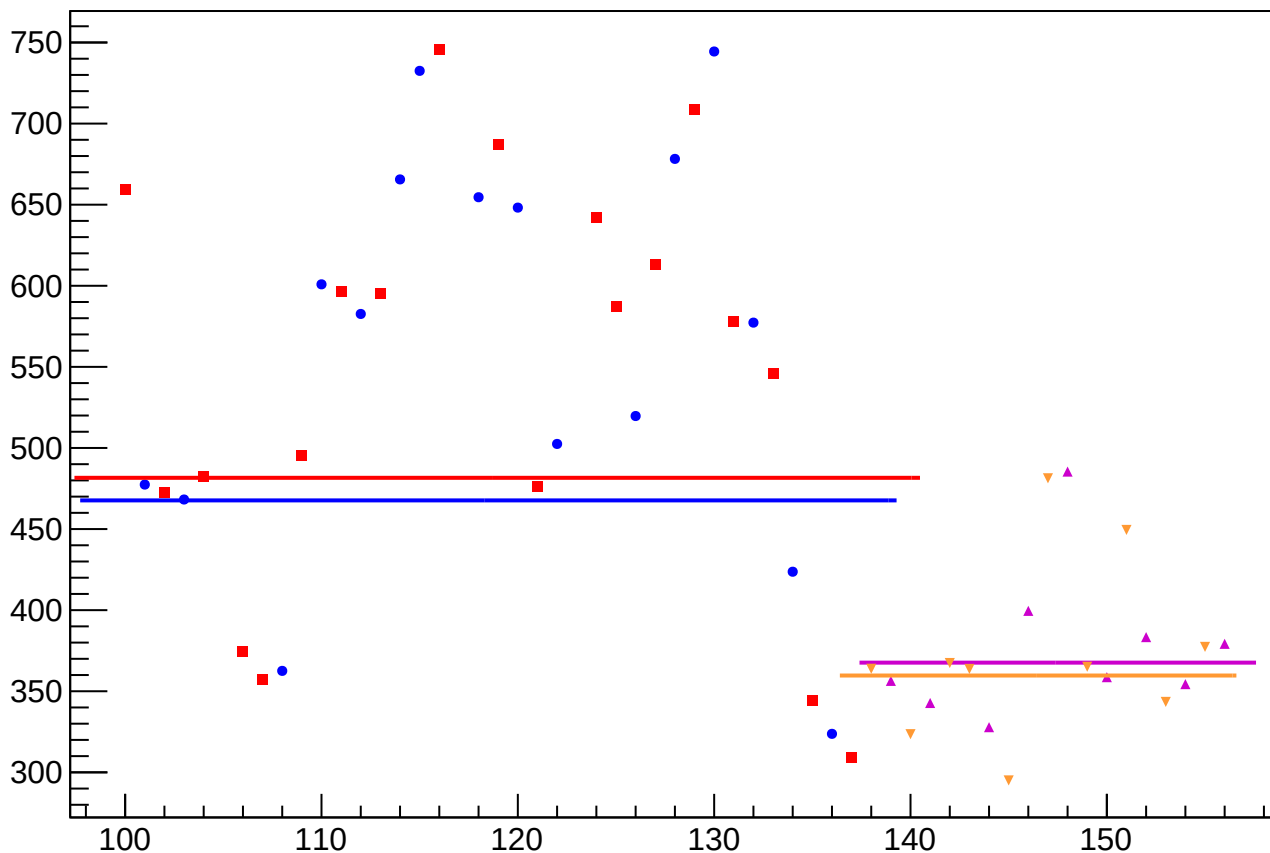
Right: -195.748 $\pm$ 127.947 χ^2 /NDF: 31.8/34

In: -189.669 $\pm$ 106.792 χ^2 /NDF:31.1/24

Out: -104.380 $\pm$ 105.654 χ^2 /NDF:31.1/28

All: -146.568 $\pm$ 75.108 χ^2 /NDF: 62.4/53

asym_sam_13_57_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674+/-0.128 χ^2/NDF : 985943.7/15

Left Out: 359.699+/-0.092 χ^2/NDF : 277092.9/9

Right Out: 481.599+/-0.128 χ^2/NDF : 854281.1/18

Left In: 367.640+/-0.094 χ^2/NDF : 153588.5/8

Left: 363.591+/-0.066 χ^2/NDF : 434343.5/18

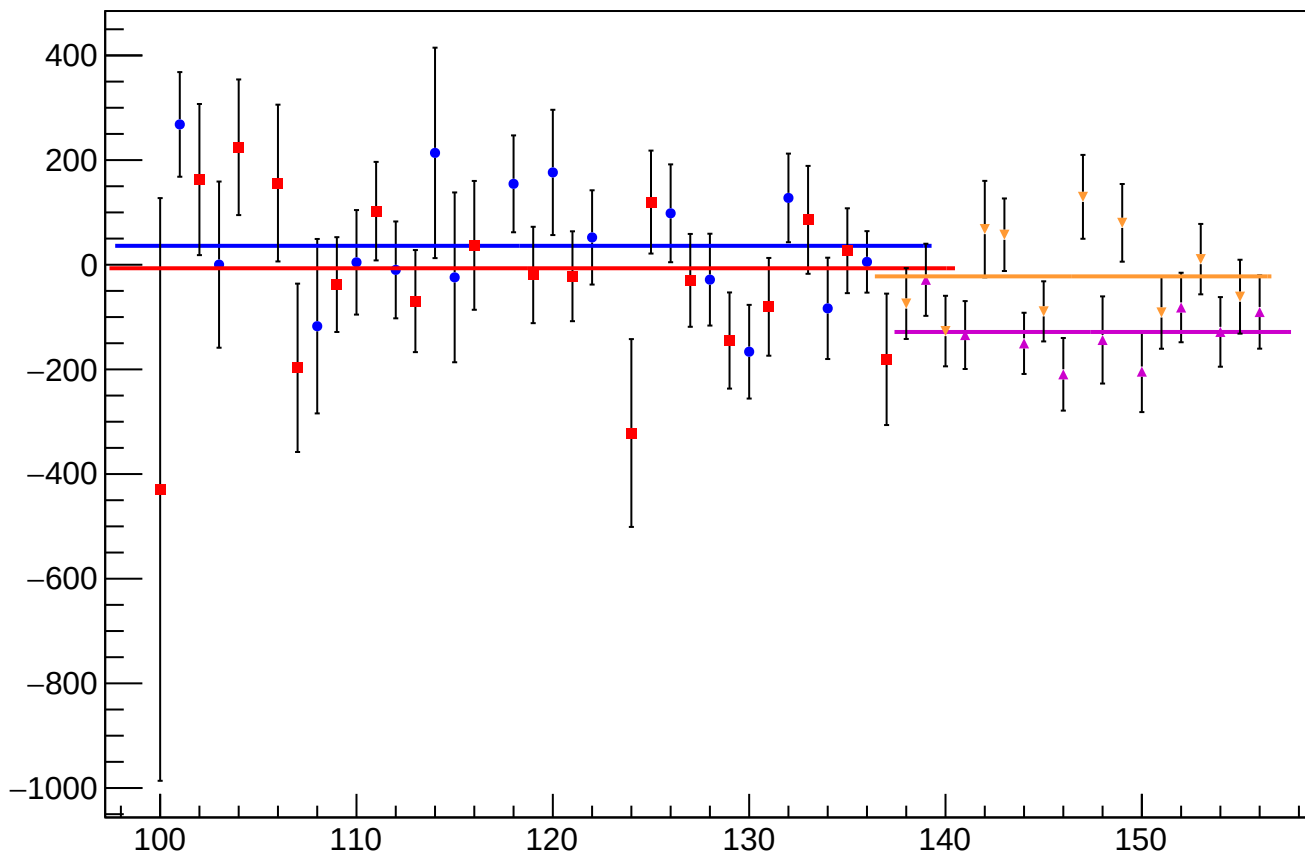
Right: 474.590+/-0.090 χ^2/NDF : 1846147.0/34

In: 402.721+/-0.076 χ^2/NDF : 1539128.3/24

Out: 400.978+/-0.075 χ^2/NDF : 1727640.2/28

All: 401.840+/-0.053 χ^2/NDF : 3267037.7/53

eigen_dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 36.157 $\pm$ 24.471 χ^2/NDF : 19.6/15

Left Out: -22.238 $\pm$ 22.176 χ^2/NDF :13.7/9

Right Out: -6.735 $\pm$ 24.565 χ^2/NDF : 20.3/18

Left In: -128.489 $\pm$ 22.847 χ^2/NDF :5.4/8

Left: -73.778 $\pm$ 15.913 χ^2/NDF : 30.2/18

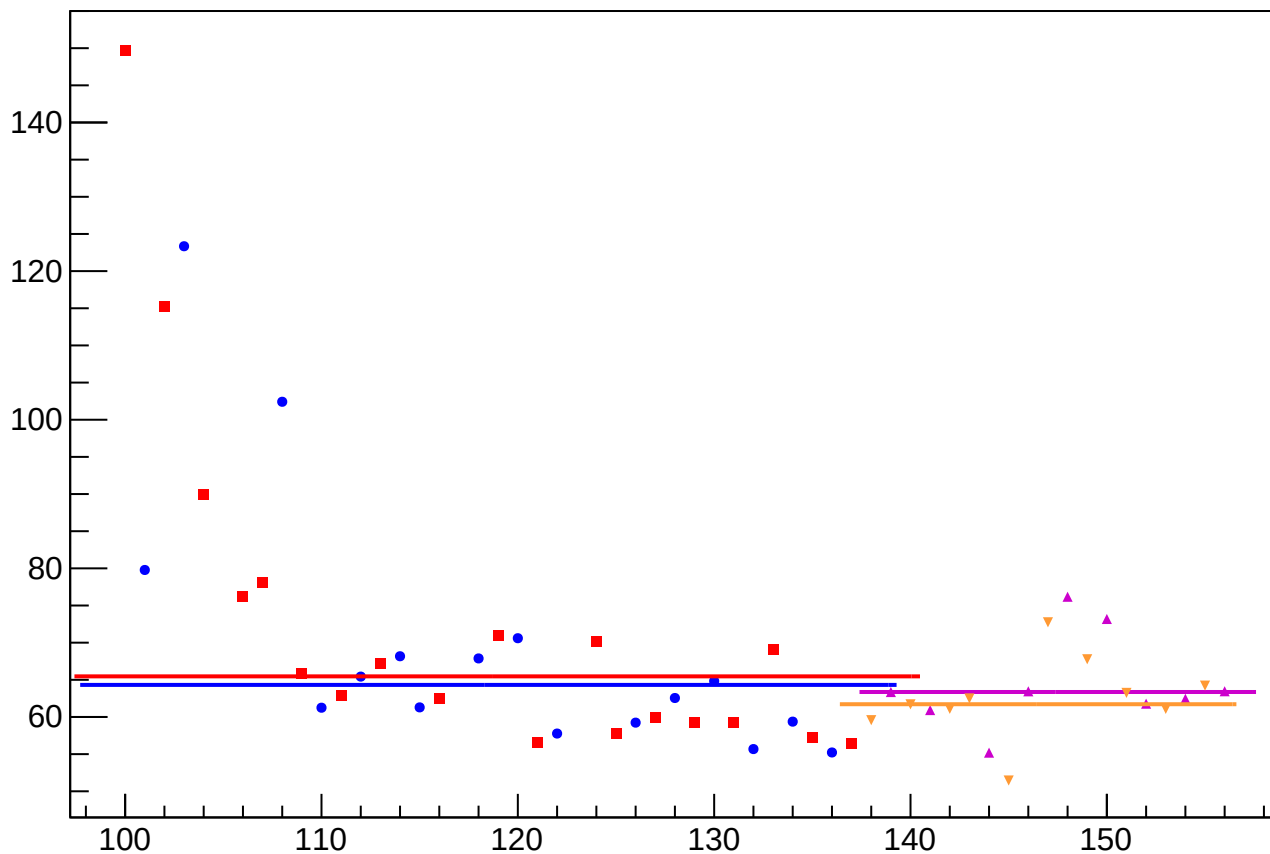
Right: 14.793 $\pm$ 17.337 χ^2/NDF : 41.5/34

In: -51.809 $\pm$ 16.700 χ^2/NDF :49.2/24

Out: -15.277 $\pm$ 16.461 χ^2/NDF :34.2/28

All: -33.279 $\pm$ 11.723 χ^2/NDF : 85.9/53

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: 61.717+/-0.016 χ^2/NDF : 120983.1/9

Right Out: 65.466+/-0.017 χ^2/NDF : 482367.1/18

Left In: 63.362+/-0.016 χ^2/NDF : 122916.3/8

Left: 62.515+/-0.011 χ^2/NDF : 249242.3/18

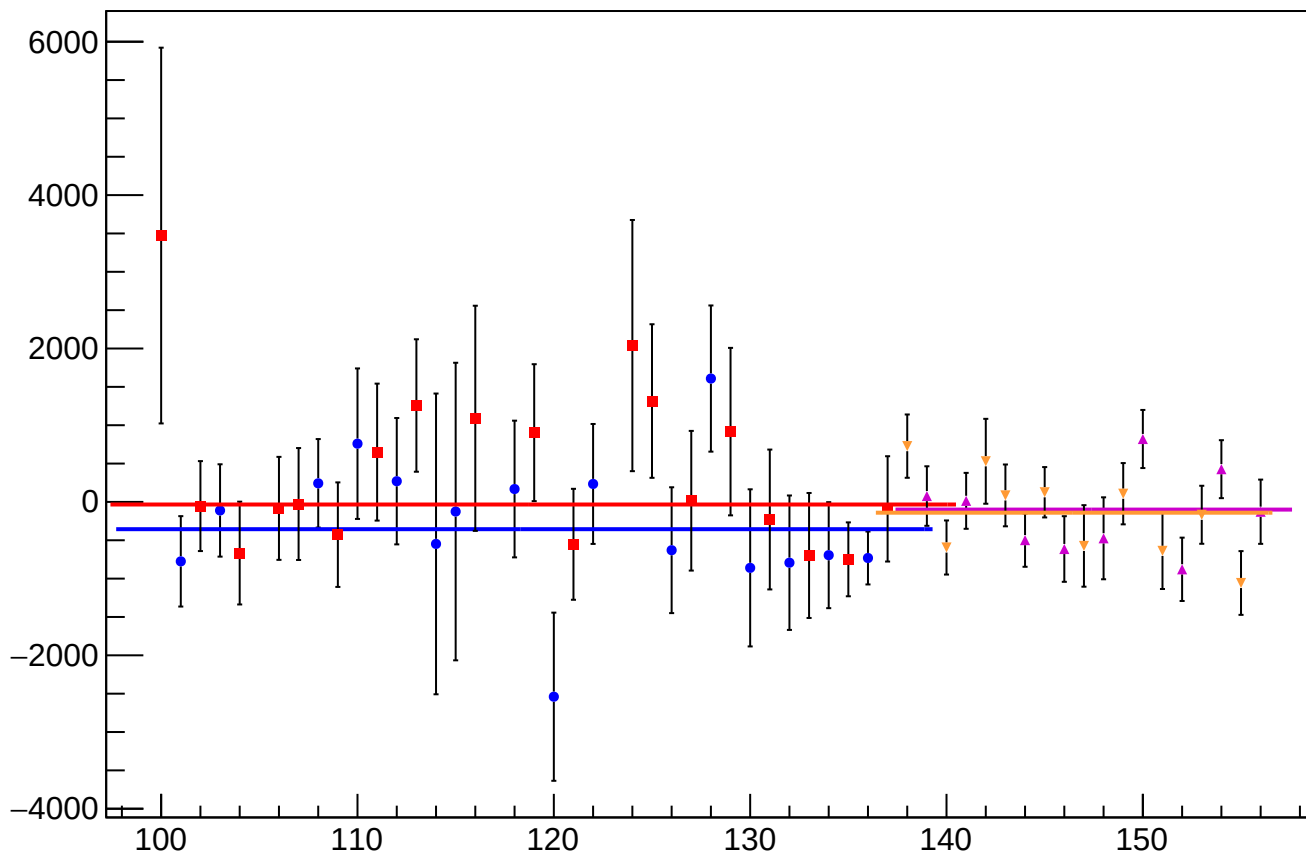
Right: 64.889+/-0.012 χ^2/NDF : 1016639.7/34

In: 63.807+/-0.012 χ^2/NDF : 656612.9/24

Out: 63.400+/-0.012 χ^2/NDF : 629020.1/28

All: 63.600+/-0.008 χ^2/NDF : 1286233.8/53

asym_sam_13_57_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529 ± 180.334 $\chi^2/\text{NDF}: 14.8/15$

Left Out: -140.524 ± 129.916 $\chi^2/\text{NDF}: 15.4/9$

Right Out: -33.787 ± 181.560 $\chi^2/\text{NDF}: 15.4/18$

Left In: -100.091 ± 132.529 $\chi^2/\text{NDF}: 15.0/8$

Left: -120.710 ± 92.775 $\chi^2/\text{NDF}: 30.4/18$

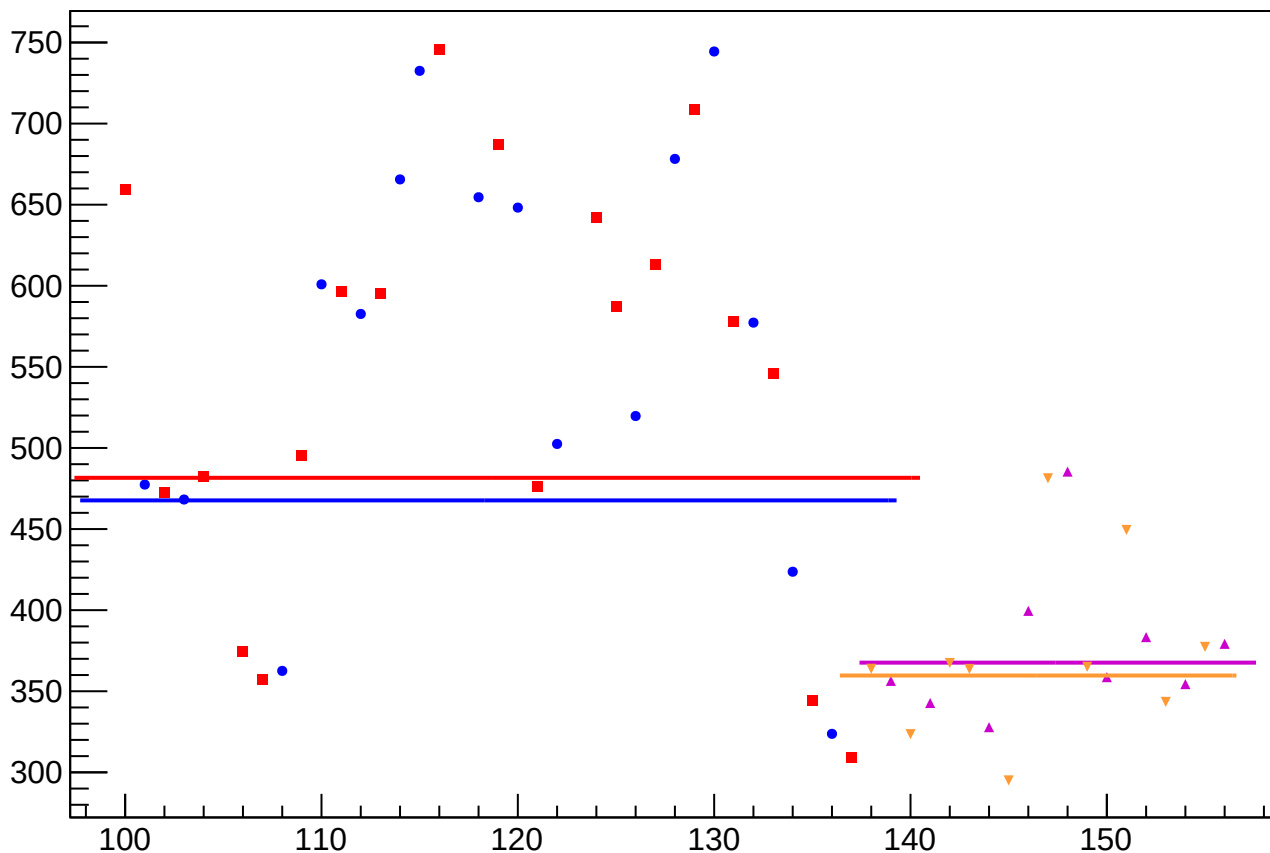
Right: -195.748 ± 127.947 $\chi^2/\text{NDF}: 31.8/34$

In: -189.670 ± 106.792 $\chi^2/\text{NDF}: 31.1/24$

Out: -104.379 ± 105.654 $\chi^2/\text{NDF}: 31.1/28$

All: -146.567 ± 75.108 $\chi^2/\text{NDF}: 62.4/53$

asym_sam_13_57_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674+/-0.128 χ^2/NDF : 985945.4/15

Left Out: 359.699+/-0.092 χ^2/NDF : 277092.2/9

Right Out: 481.599+/-0.128 χ^2/NDF : 854281.0/18

Left In: 367.641+/-0.094 χ^2/NDF : 153588.0/8

Left: 363.591+/-0.066 χ^2/NDF : 434342.5/18

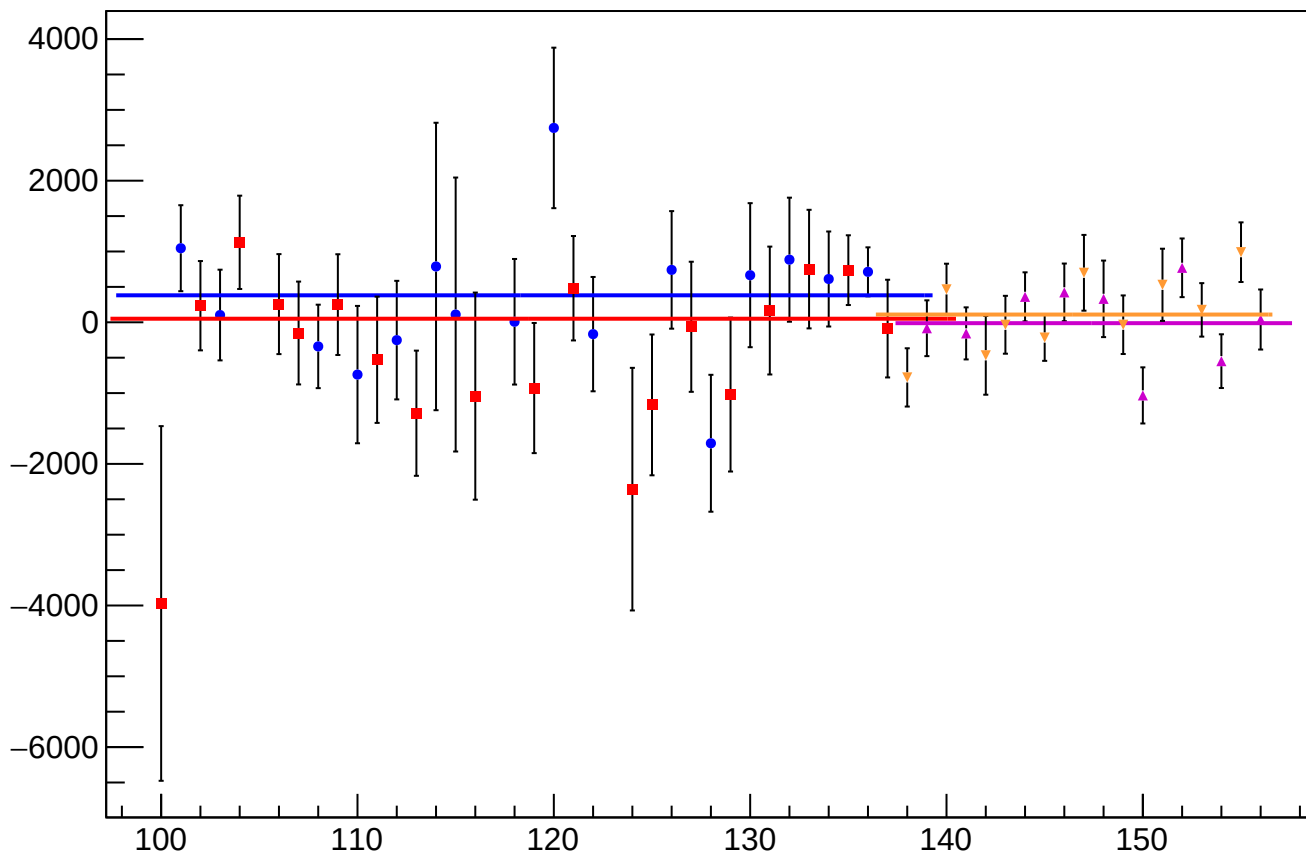
Right: 474.589+/-0.090 χ^2/NDF : 1846148.4/34

In: 402.721+/-0.076 χ^2/NDF : 1539122.8/24

Out: 400.978+/-0.075 χ^2/NDF : 1727631.1/28

All: 401.840+/-0.053 χ^2/NDF : 3267023.1/53

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: 109.399 $\pm$ 131.508 χ^2 /NDF:14.2/9

Right Out: 50.392 $\pm$ 185.262 χ^2 /NDF: 17.5/18

Left In: -12.356 $\pm$ 133.230 χ^2 /NDF:15.1/8

Left: 49.313 $\pm$ 93.593 χ^2 /NDF: 29.7/18

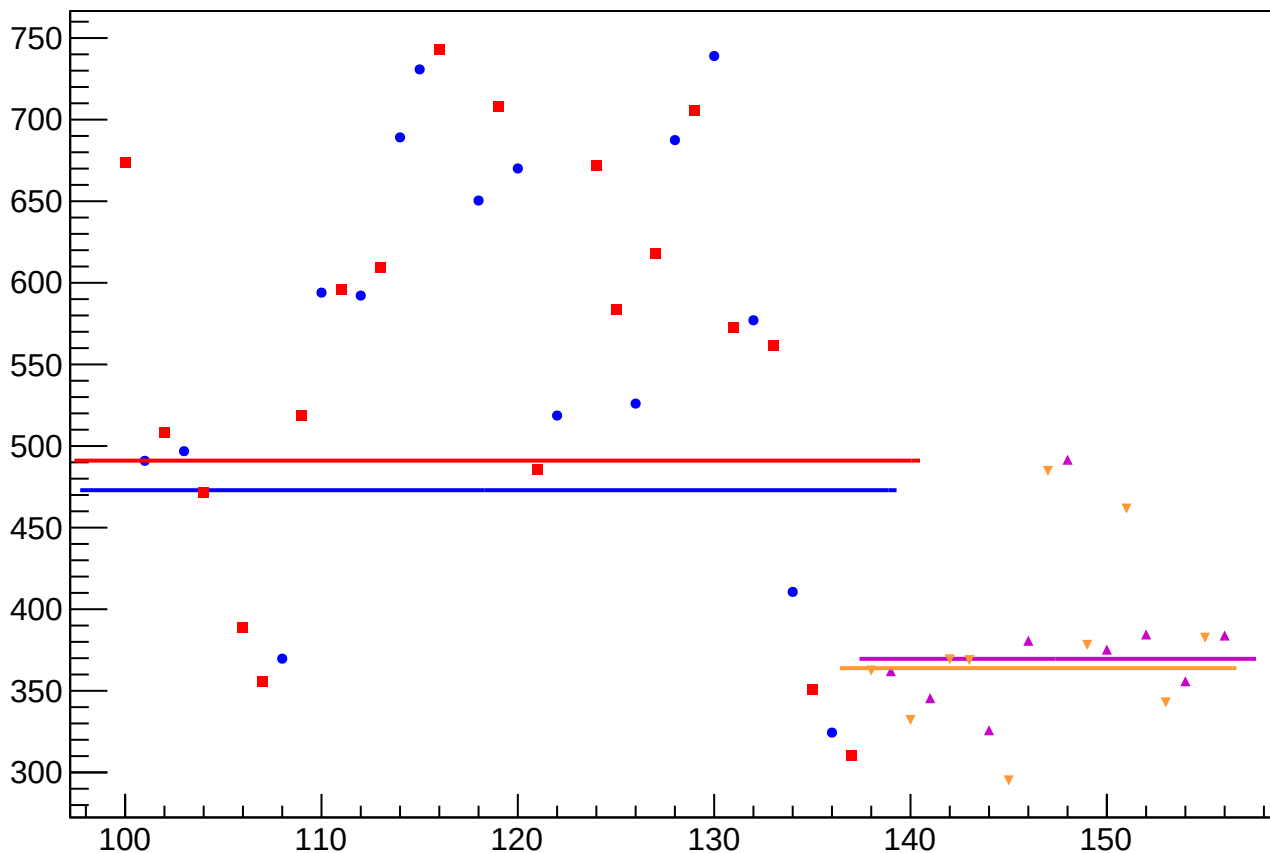
Right: 218.082 $\pm$ 130.069 χ^2 /NDF: 35.2/34

In: 124.276 $\pm$ 107.639 χ^2 /NDF:34.3/24

Out: 89.628 $\pm$ 107.237 χ^2 /NDF:31.8/28

All: 106.887 $\pm$ 75.970 χ^2 /NDF: 66.1/53

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 472.924 $\pm$ 0.129 χ^2/NDF : 1000274.3/15

Left Out: 363.877 $\pm$ 0.093 χ^2/NDF :291597.3/9

Right Out: 491.063 $\pm$ 0.131 χ^2/NDF : 847493.6/18

Left In: 369.607 $\pm$ 0.094 χ^2/NDF :152595.9/8

Left: 366.705 $\pm$ 0.066 χ^2/NDF : 446067.2/18

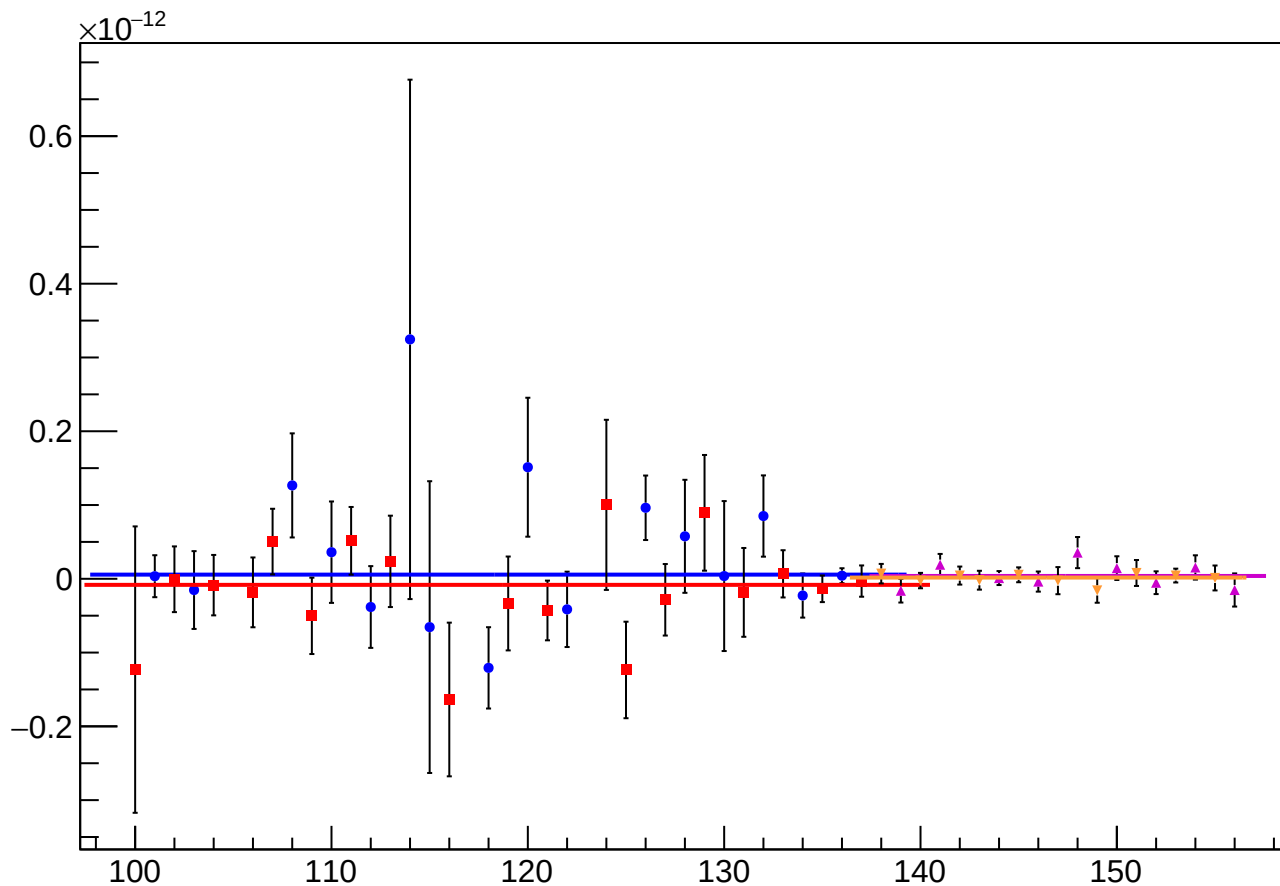
Right: 481.865 $\pm$ 0.092 χ^2/NDF : 1857489.5/34

In: 405.486 $\pm$ 0.076 χ^2/NDF :1570548.2/24

Out: 406.491 $\pm$ 0.076 χ^2/NDF :1765879.6/28

All: 405.991 $\pm$ 0.054 χ^2/NDF : 3336515.3/53

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 : 1.9/9

Right Out: -0.000+/-0.000 χ^2/NDF : 14.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 7.3/8

Left: 0.000+/-0.000 χ^2/NDF : 9.4/18

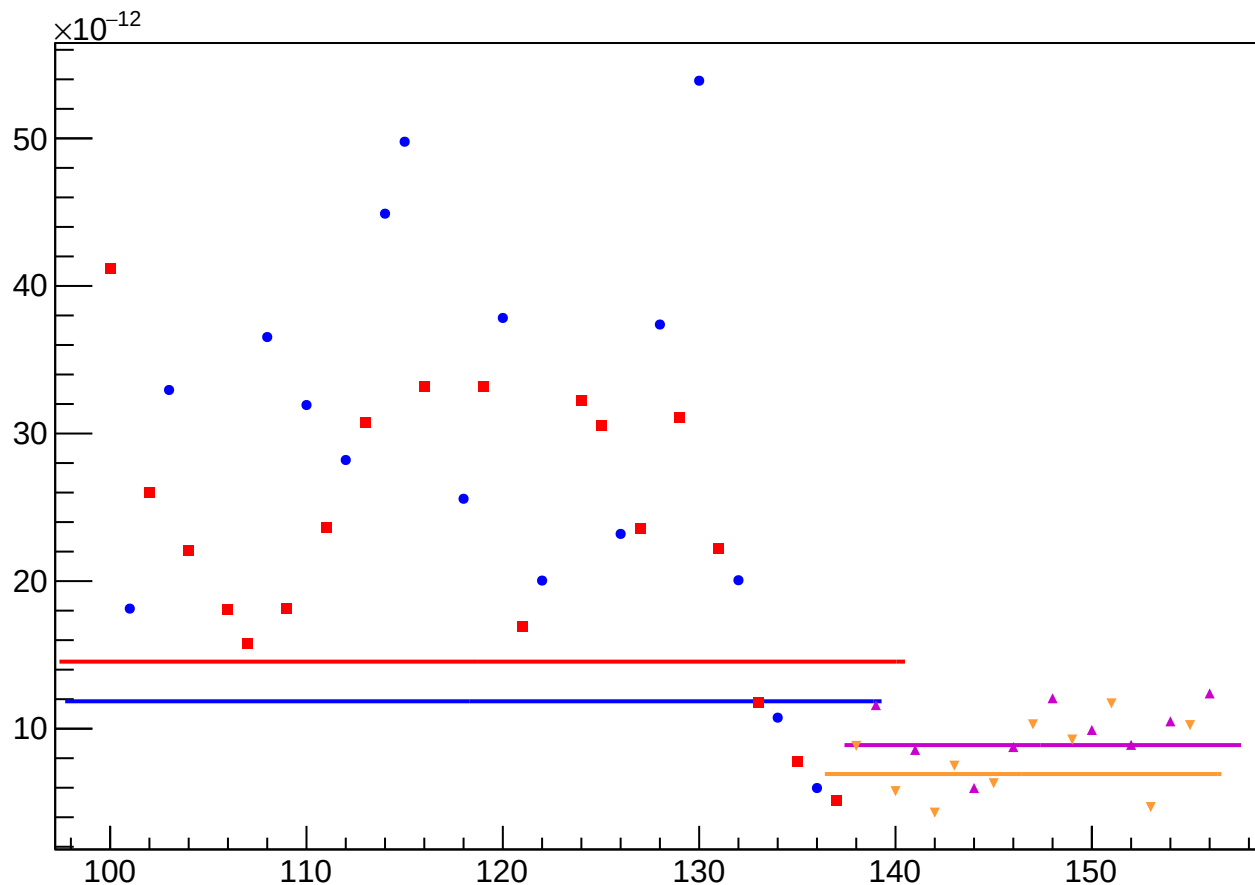
Right: -0.000+/-0.000 χ^2/NDF : 36.4/34

In: 0.000+/-0.000 χ^2/NDF : 28.5/24

Out: 0.000+/-0.000 χ^2/NDF : 16.9/28

All: 0.000+/-0.000 χ^2/NDF : 45.9/53

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 : 615396.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1769864.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 368401.3/8

Left: 0.000+/-0.000 χ^2/NDF : 1174180.0/18

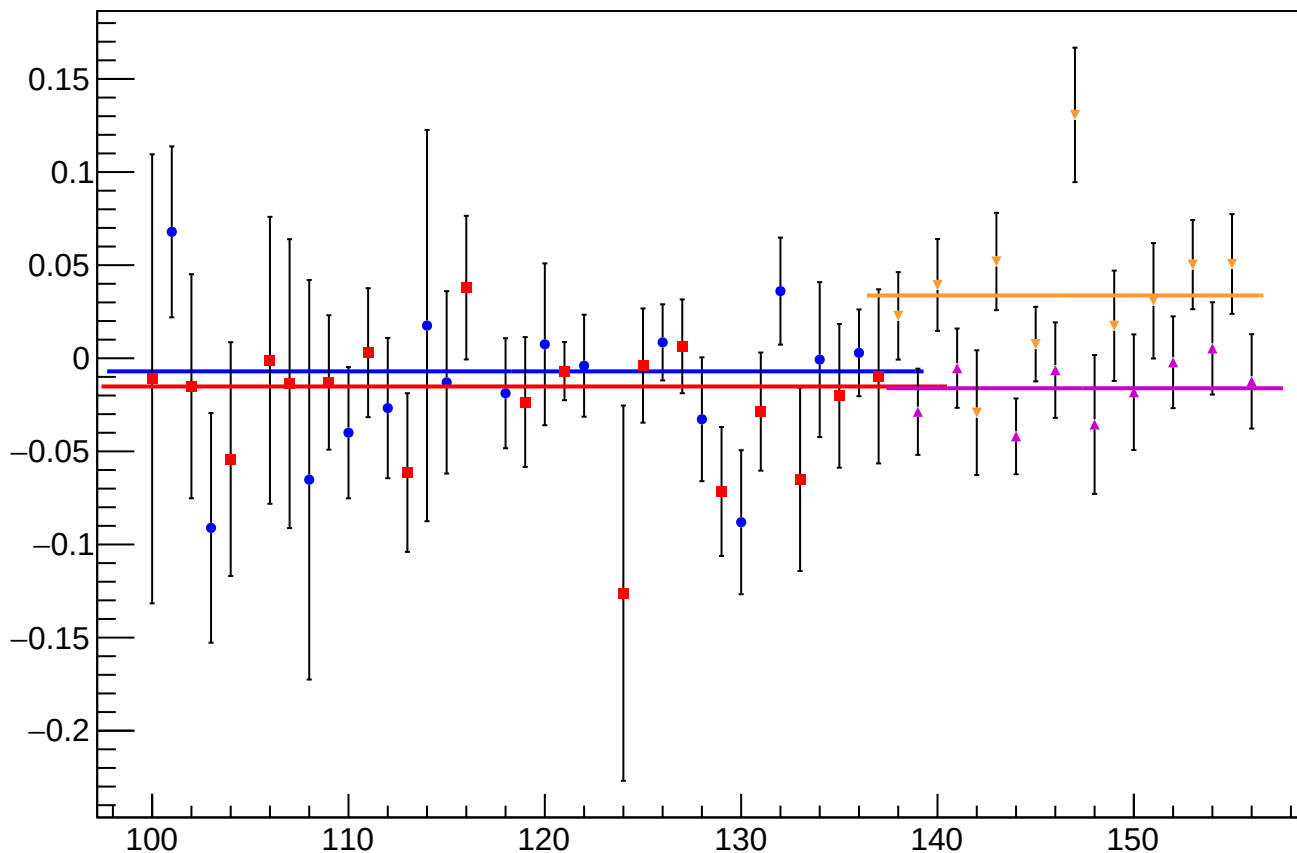
Right: 0.000+/-0.000 χ^2/NDF : 4713356.4/34

In: 0.000+/-0.000 χ^2/NDF : 3412589.5/24

Out: 0.000+/-0.000 χ^2/NDF : 3518086.2/28

All: 0.000+/-0.000 χ^2/NDF : 7087653.1/53

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 $\chi^2/\text{NDF}: 14.3/15$

Left Out: 0.034 ± 0.008 $\chi^2/\text{NDF}: 14.4/9$

Right Out: -0.015 ± 0.008 $\chi^2/\text{NDF}: 10.1/18$

Left In: -0.016 ± 0.008 $\chi^2/\text{NDF}: 3.7/8$

Left: 0.009 ± 0.006 $\chi^2/\text{NDF}: 36.1/18$

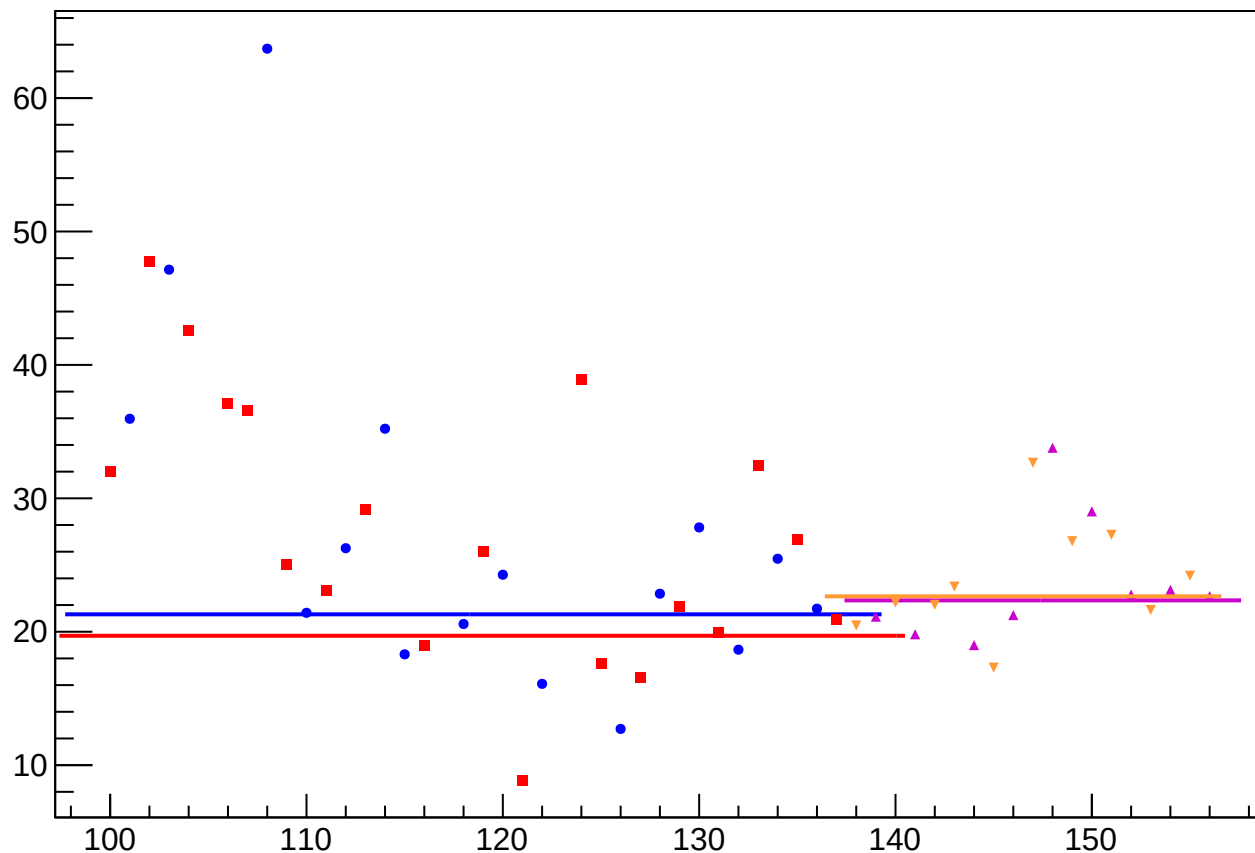
Right: -0.011 ± 0.006 $\chi^2/\text{NDF}: 24.9/34$

In: -0.012 ± 0.006 $\chi^2/\text{NDF}: 18.6/24$

Out: 0.009 ± 0.006 $\chi^2/\text{NDF}: 41.9/28$

All: -0.001 ± 0.004 $\chi^2/\text{NDF}: 66.6/53$

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: 22.654+/-0.006 χ^2/NDF : 410001.1/9

Right Out: 19.697+/-0.006 χ^2/NDF : 2438979.3/18

Left In: 22.350+/-0.006 χ^2/NDF : 375839.1/8

Left: 22.501+/-0.004 χ^2/NDF : 787176.6/18

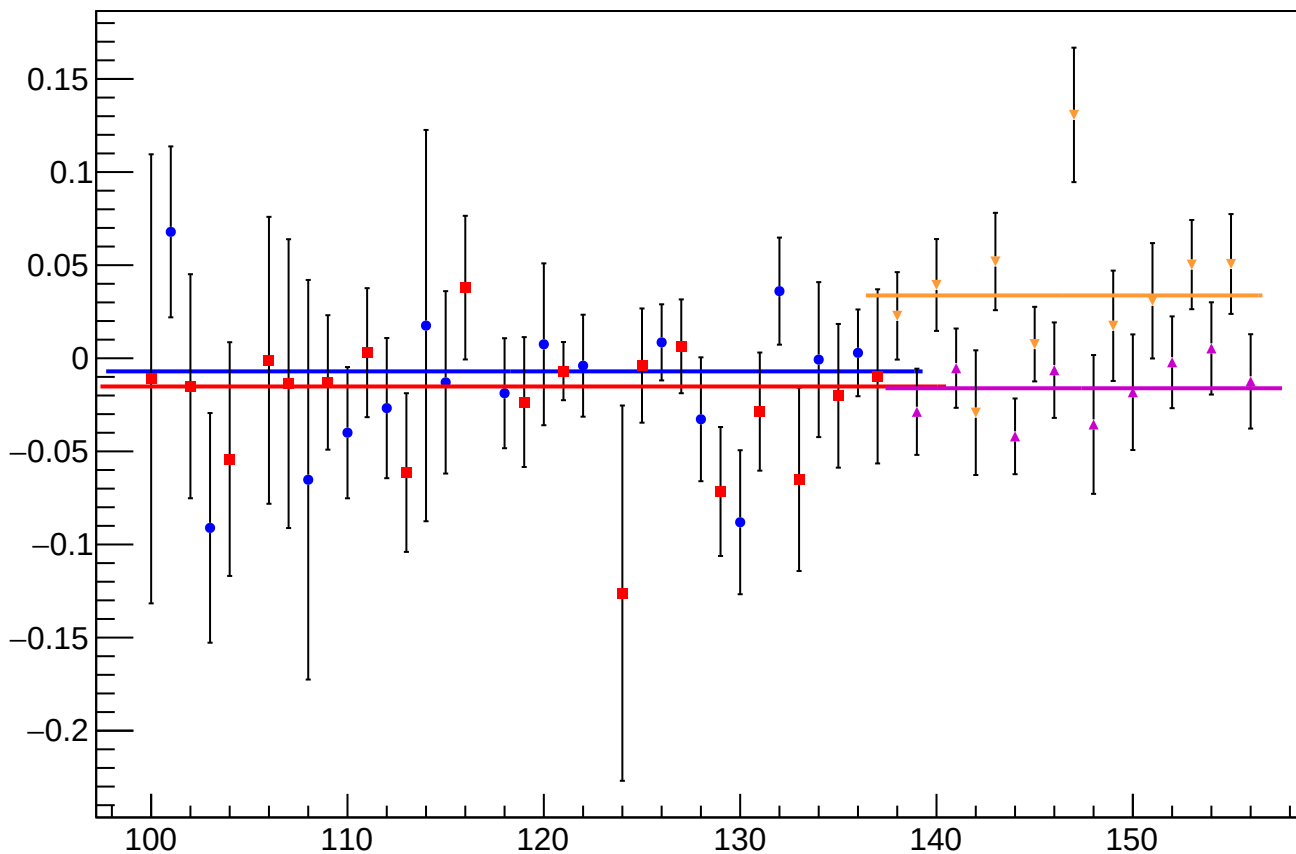
Right: 20.463+/-0.004 χ^2/NDF : 3954812.2/34

In: 21.849+/-0.004 χ^2/NDF : 1870529.8/24

Out: 21.156+/-0.004 χ^2/NDF : 2976510.8/28

All: 21.496+/-0.003 χ^2/NDF : 4860805.0/53

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 $\chi^2/\text{NDF}: 14.3/15$

Left Out: 0.034 ± 0.008 $\chi^2/\text{NDF}: 14.4/9$

Right Out: -0.015 ± 0.008 $\chi^2/\text{NDF}: 10.1/18$

Left In: -0.016 ± 0.008 $\chi^2/\text{NDF}: 3.7/8$

Left: 0.009 ± 0.006 $\chi^2/\text{NDF}: 36.1/18$

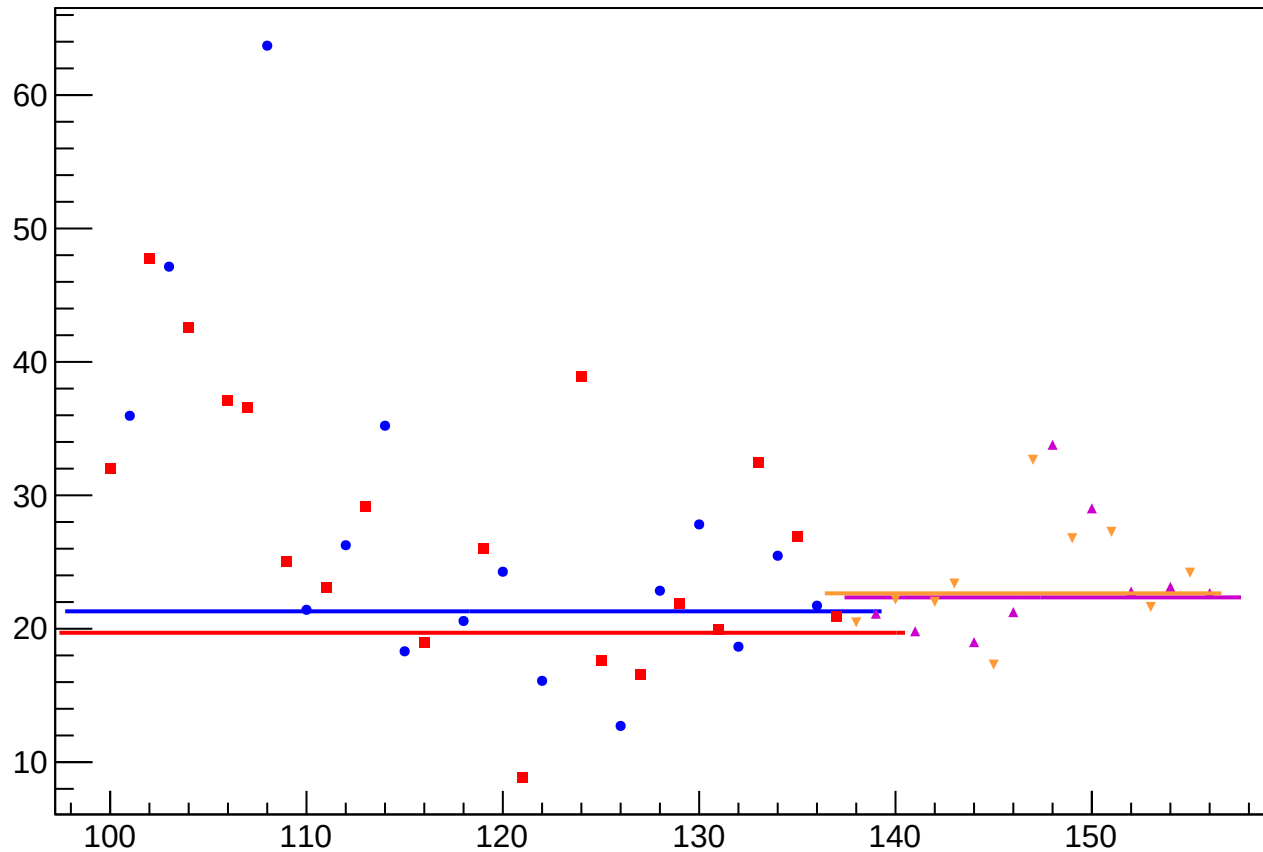
Right: -0.011 ± 0.006 $\chi^2/\text{NDF}: 24.9/34$

In: -0.012 ± 0.006 $\chi^2/\text{NDF}: 18.6/24$

Out: 0.009 ± 0.006 $\chi^2/\text{NDF}: 41.9/28$

All: -0.001 ± 0.004 $\chi^2/\text{NDF}: 66.6/53$

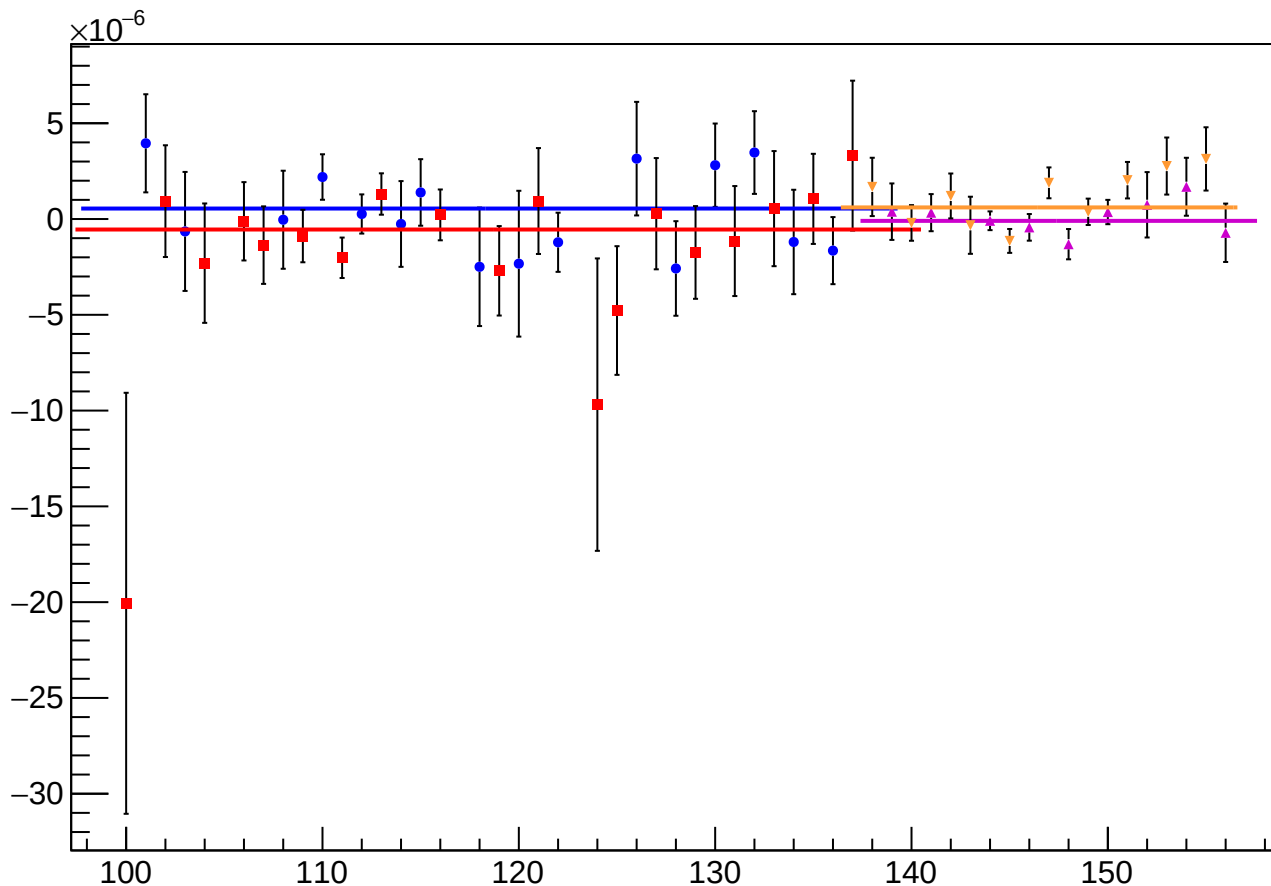
asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.305 $\pm$ 0.006 χ^2 /NDF: 1479398.3/15
 Left Out: 22.654 $\pm$ 0.006 χ^2 /NDF: 410001.1/9
 Right Out: 19.697 $\pm$ 0.006 χ^2 /NDF: 2438979.3/18
 Left In: 22.350 $\pm$ 0.006 χ^2 /NDF: 375839.1/8

Left: 22.501 $\pm$ 0.004 χ^2 /NDF: 787176.6/18
 Right: 20.463 $\pm$ 0.004 χ^2 /NDF: 3954812.2/34
 In: 21.849 $\pm$ 0.004 χ^2 /NDF: 1870529.8/24
 Out: 21.156 $\pm$ 0.004 χ^2 /NDF: 2976510.8/28
 All: 21.496 $\pm$ 0.003 χ^2 /NDF: 4860805.0/53

asym_sam_13_57_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 : 19.1/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.2/8

Left: 0.000+/-0.000 χ^2/NDF : 27.3/18

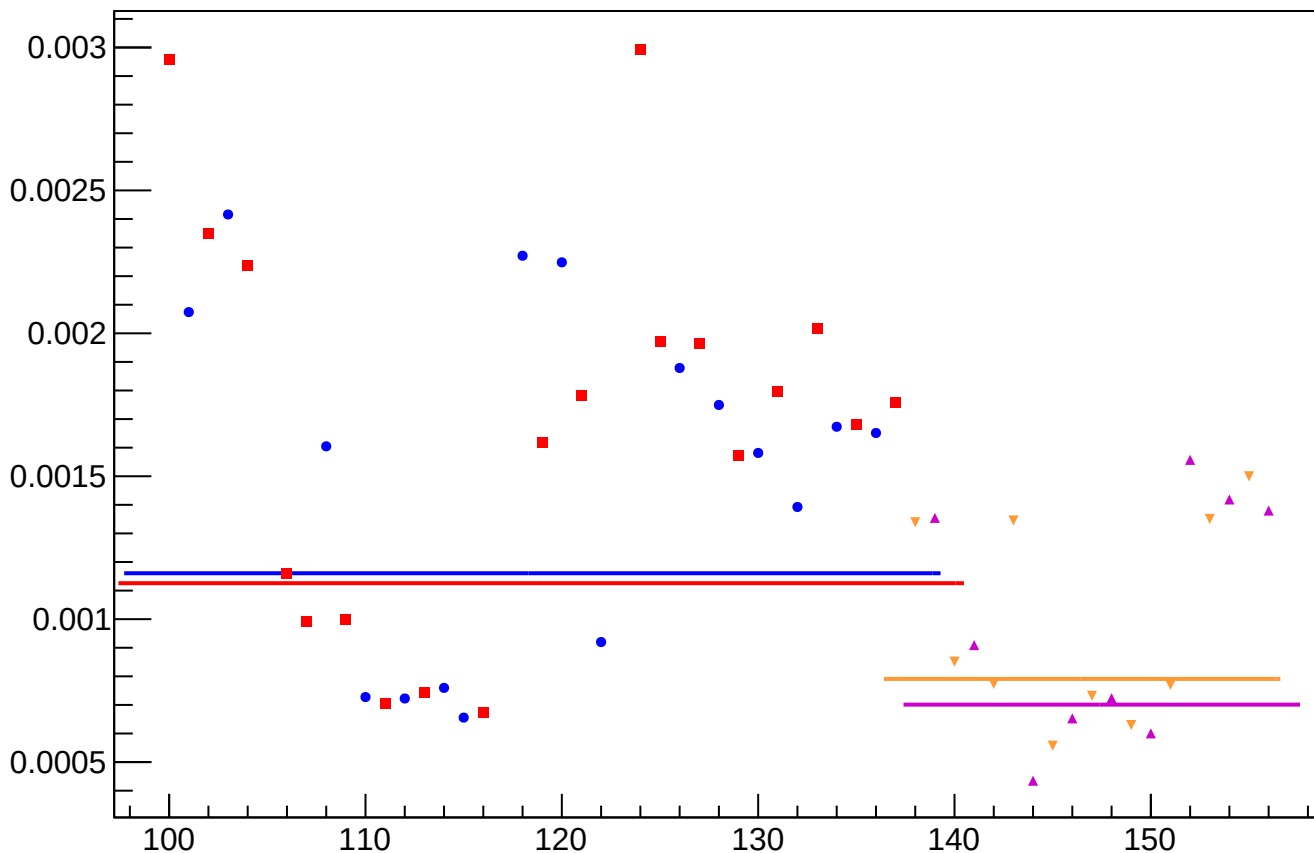
Right: -0.000+/-0.000 χ^2/NDF : 32.5/34

In: 0.000+/-0.000 χ^2/NDF : 21.0/24

Out: 0.000+/-0.000 χ^2/NDF : 38.8/28

All: 0.000+/-0.000 χ^2/NDF : 60.2/53

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 :1597577.9/9

Right Out: 0.001+/-0.000 χ^2/NDF : 2623987.9/18

Left In: 0.001+/-0.000 χ^2/NDF :2488377.8/8

Left: 0.001+/-0.000 χ^2/NDF : 4182035.2/18

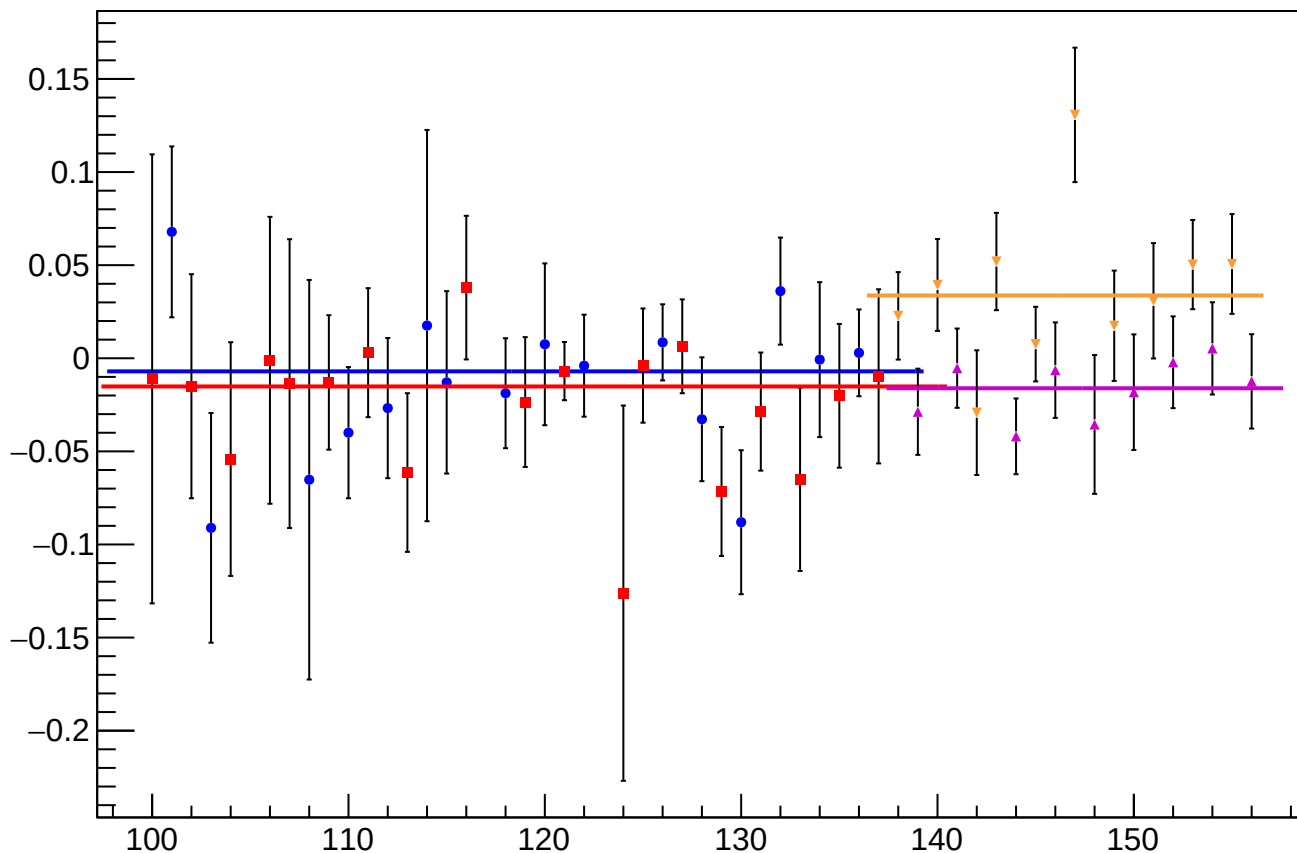
Right: 0.001+/-0.000 χ^2/NDF : 5164155.8/34

In: 0.001+/-0.000 χ^2/NDF :6404747.9/24

Out: 0.001+/-0.000 χ^2/NDF :4964334.9/28

All: 0.001+/-0.000 χ^2/NDF : 11465567.8/53

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 $\chi^2/\text{NDF}: 14.3/15$

Left Out: 0.034 ± 0.008 $\chi^2/\text{NDF}: 14.4/9$

Right Out: -0.015 ± 0.008 $\chi^2/\text{NDF}: 10.1/18$

Left In: -0.016 ± 0.008 $\chi^2/\text{NDF}: 3.7/8$

Left: 0.009 ± 0.006 $\chi^2/\text{NDF}: 36.1/18$

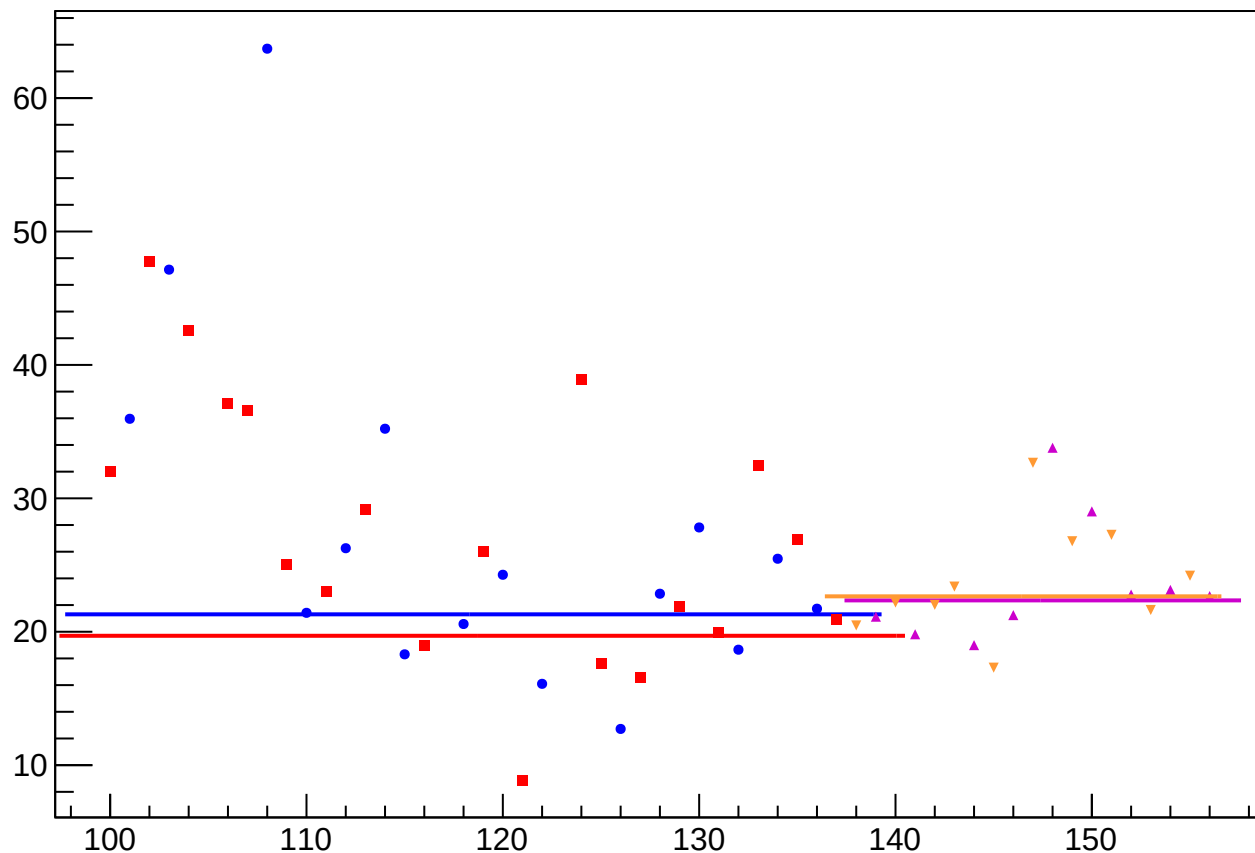
Right: -0.011 ± 0.006 $\chi^2/\text{NDF}: 24.9/34$

In: -0.012 ± 0.006 $\chi^2/\text{NDF}: 18.6/24$

Out: 0.009 ± 0.006 $\chi^2/\text{NDF}: 41.9/28$

All: -0.001 ± 0.004 $\chi^2/\text{NDF}: 66.6/53$

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306 $\pm$ 0.006 χ^2 /NDF: 1479231.5/15

Left Out: 22.654 $\pm$ 0.006 χ^2 /NDF: 410034.8/9

Right Out: 19.698 $\pm$ 0.006 χ^2 /NDF: 2438612.4/18

Left In: 22.351 $\pm$ 0.006 χ^2 /NDF: 375853.8/8

Left: 22.501 $\pm$ 0.004 χ^2 /NDF: 787224.2/18

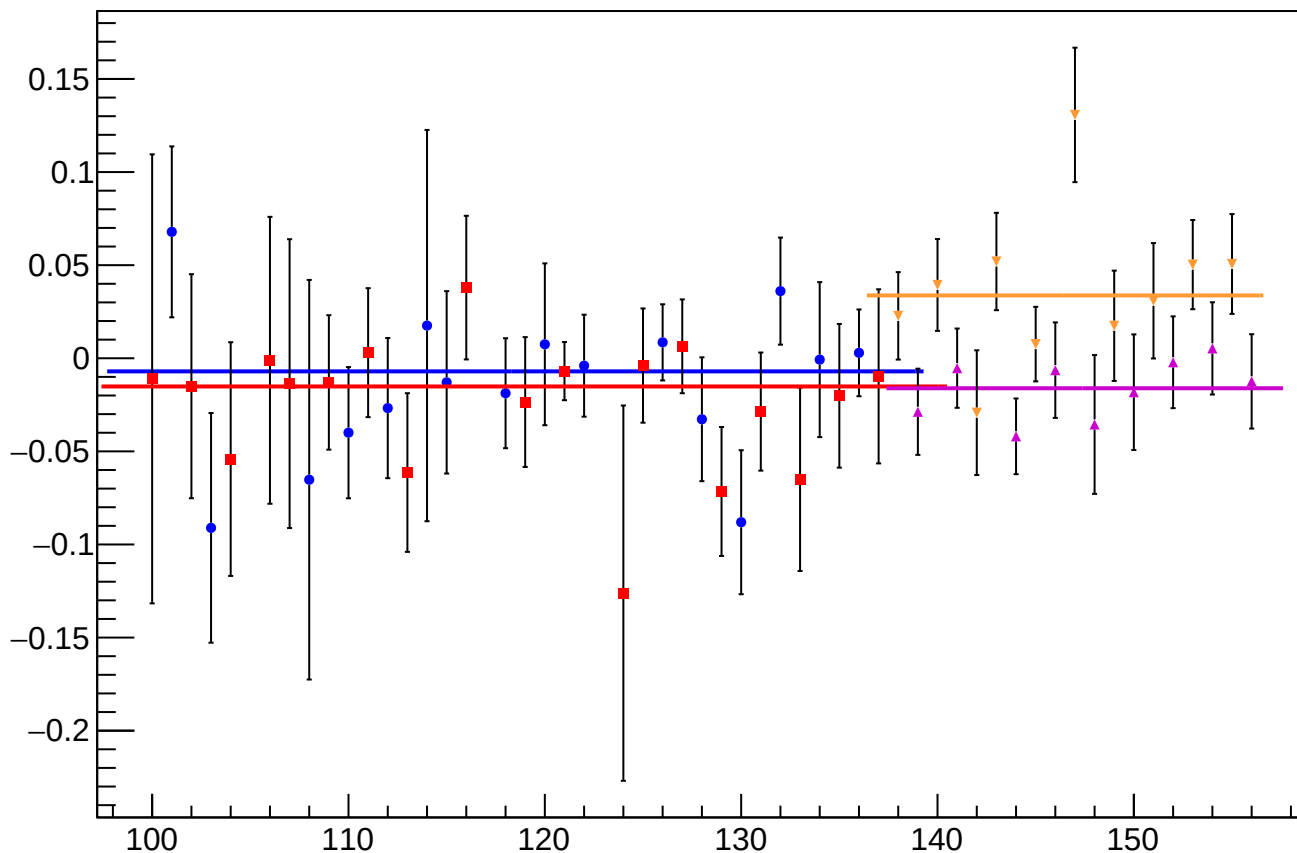
Right: 20.464 $\pm$ 0.004 χ^2 /NDF: 3954261.4/34

In: 21.850 $\pm$ 0.004 χ^2 /NDF: 1870379.5/24

Out: 21.156 $\pm$ 0.004 χ^2 /NDF: 2976141.8/28

All: 21.496 $\pm$ 0.003 χ^2 /NDF: 4860279.6/53

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: 0.034 ± 0.008 χ^2/NDF : 14.4/9

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.016 ± 0.008 χ^2/NDF : 3.7/8

Left: 0.009 ± 0.006 χ^2/NDF : 36.1/18

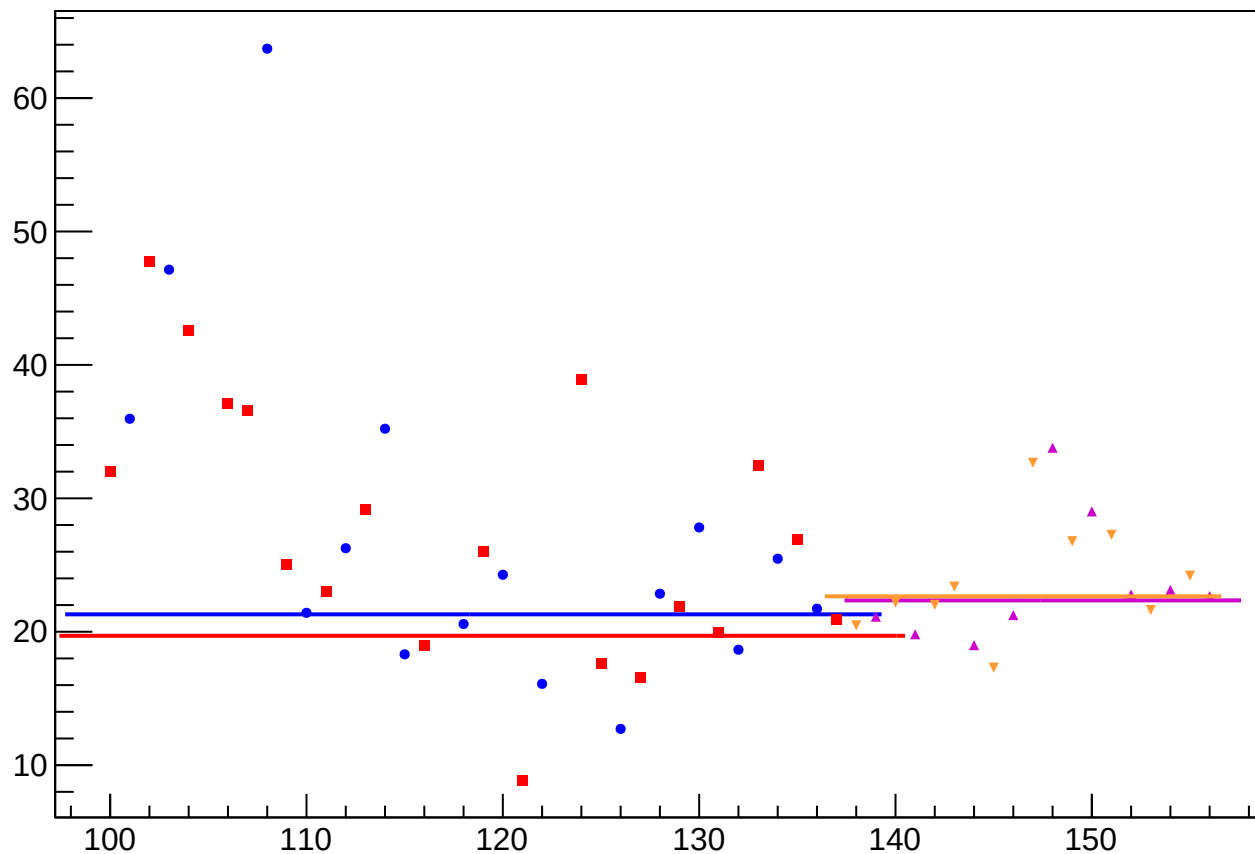
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.012 ± 0.006 χ^2/NDF : 18.6/24

Out: 0.009 ± 0.006 χ^2/NDF : 41.9/28

All: -0.001 ± 0.004 χ^2/NDF : 66.6/53

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306 $\pm$ 0.006 χ^2/NDF : 1479231.5/15

Left Out: 22.654 $\pm$ 0.006 χ^2/NDF : 410034.8/9

Right Out: 19.698 $\pm$ 0.006 χ^2/NDF : 2438612.4/18

Left In: 22.351 $\pm$ 0.006 χ^2/NDF : 375853.8/8

Left: 22.501 $\pm$ 0.004 χ^2/NDF : 787224.2/18

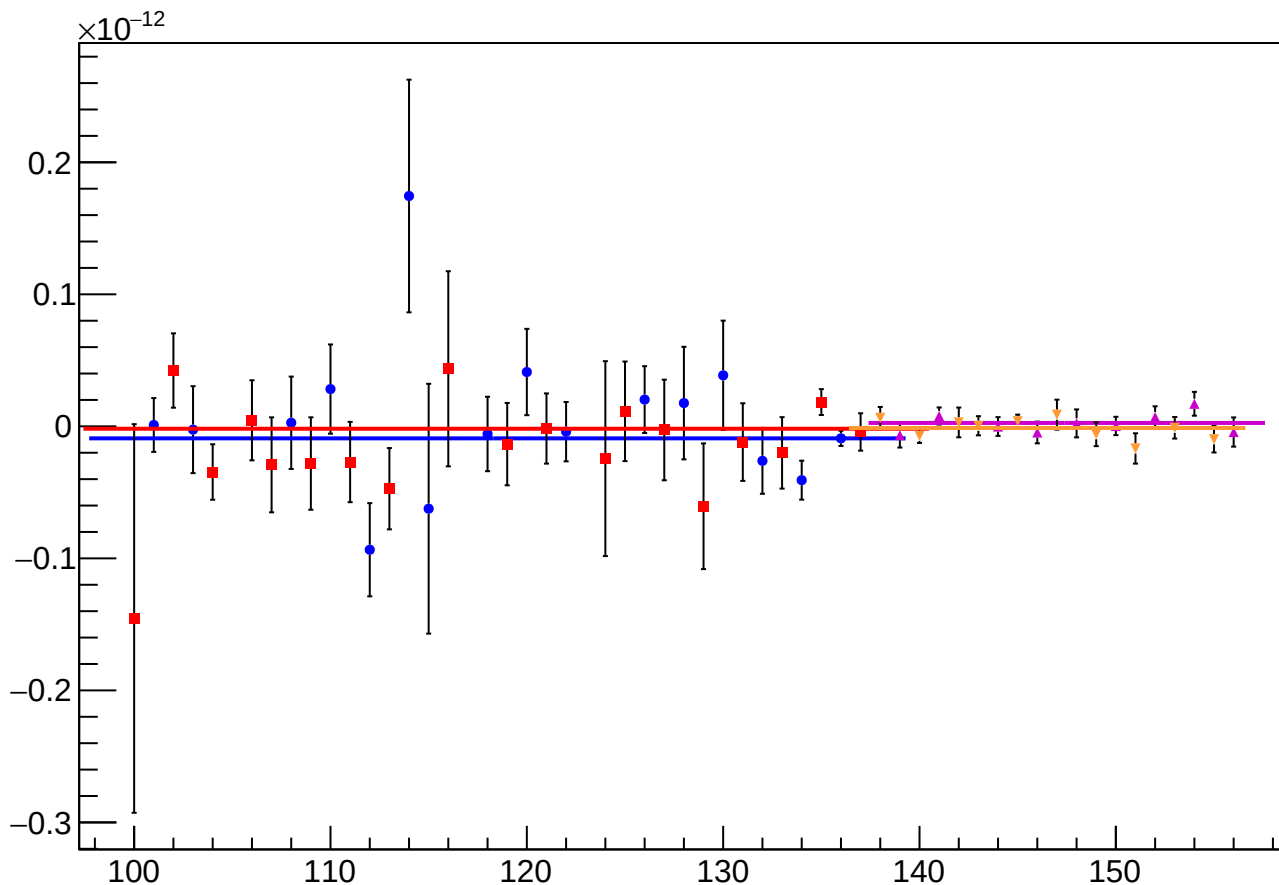
Right: 20.464 $\pm$ 0.004 χ^2/NDF : 3954261.4/34

In: 21.850 $\pm$ 0.004 χ^2/NDF : 1870379.5/24

Out: 21.156 $\pm$ 0.004 χ^2/NDF : 2976141.8/28

All: 21.496 $\pm$ 0.003 χ^2/NDF : 4860279.6/53

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 : 6.9/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 17.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 5.9/8

Left: 0.000 ± 0.000 χ^2/NDF : 14.0/18

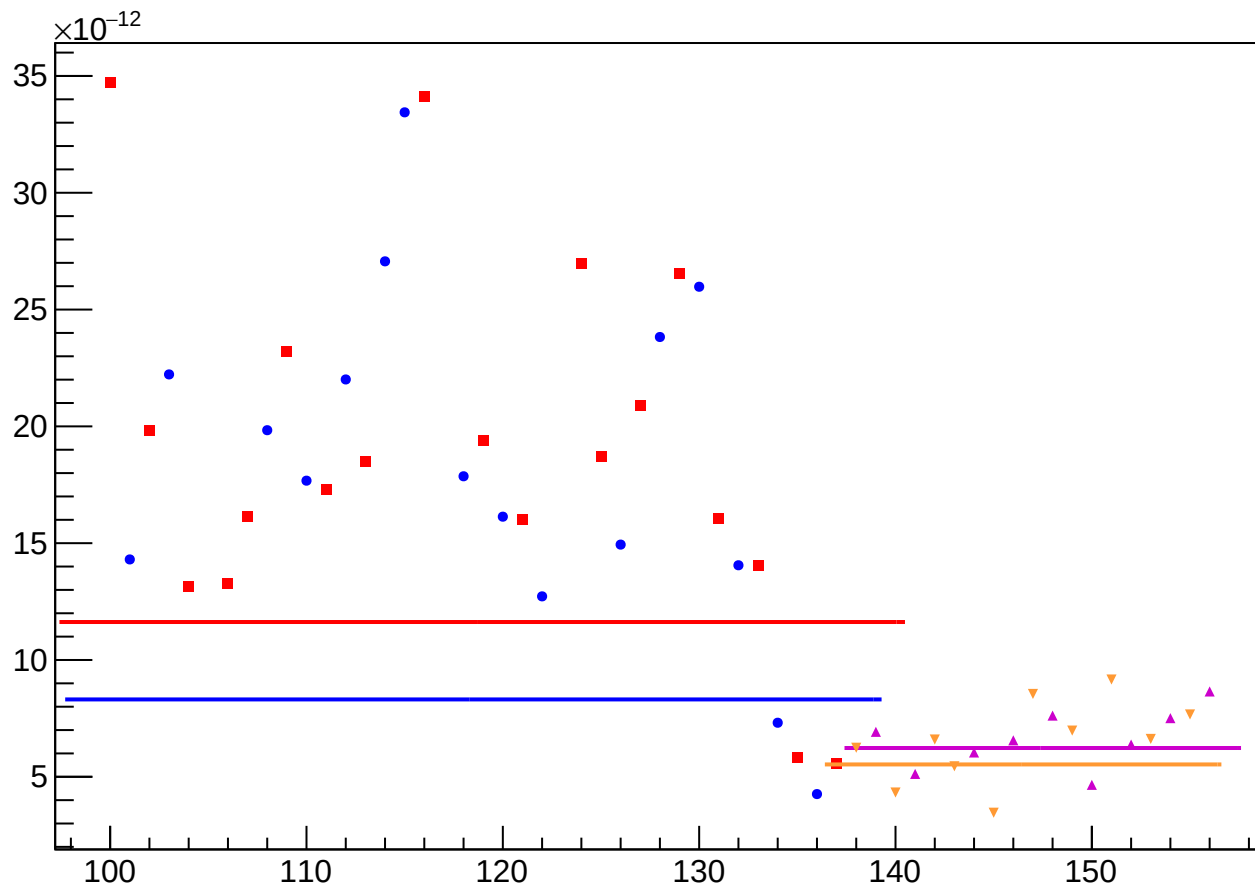
Right: -0.000 ± 0.000 χ^2/NDF : 40.6/34

In: -0.000 ± 0.000 χ^2/NDF : 33.4/24

Out: -0.000 ± 0.000 χ^2/NDF : 23.9/28

All: -0.000 ± 0.000 χ^2/NDF : 57.4/53

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 : 994452.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2610908.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 347880.0/8

Left: 0.000+/-0.000 χ^2/NDF : 1416547.6/18

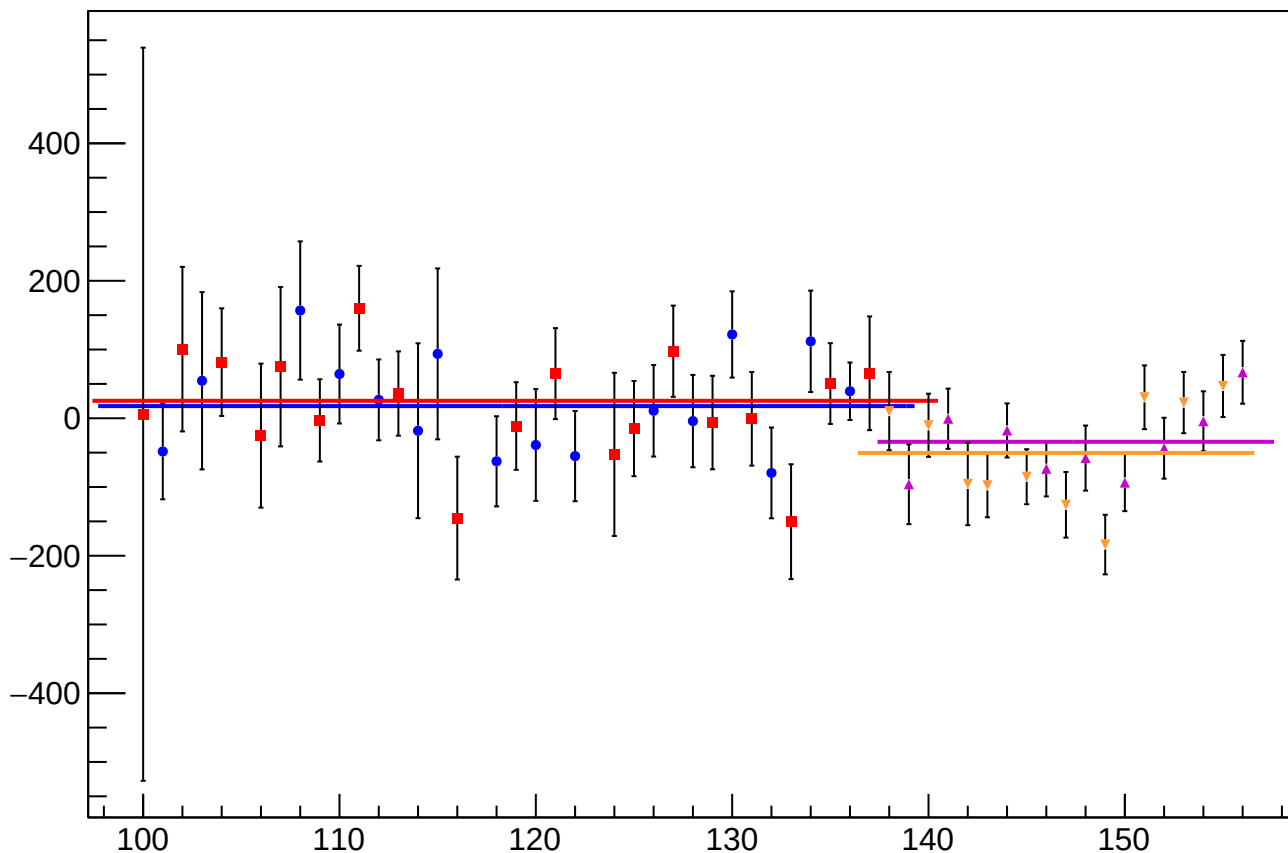
Right: 0.000+/-0.000 χ^2/NDF : 6760845.1/34

In: 0.000+/-0.000 χ^2/NDF : 4392734.1/24

Out: 0.000+/-0.000 χ^2/NDF : 5548707.6/28

All: 0.000+/-0.000 χ^2/NDF : 9960557.3/53

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.701 $\pm$ 17.470 χ^2 /NDF: 13.9/15

Left Out: -50.460 $\pm$ 14.778 χ^2 /NDF:26.6/9

Right Out: 25.440 $\pm$ 17.337 χ^2 /NDF: 17.8/18

Left In: -34.214 $\pm$ 14.710 χ^2 /NDF:10.5/8

Left: -42.299 $\pm$ 10.426 χ^2 /NDF: 37.8/18

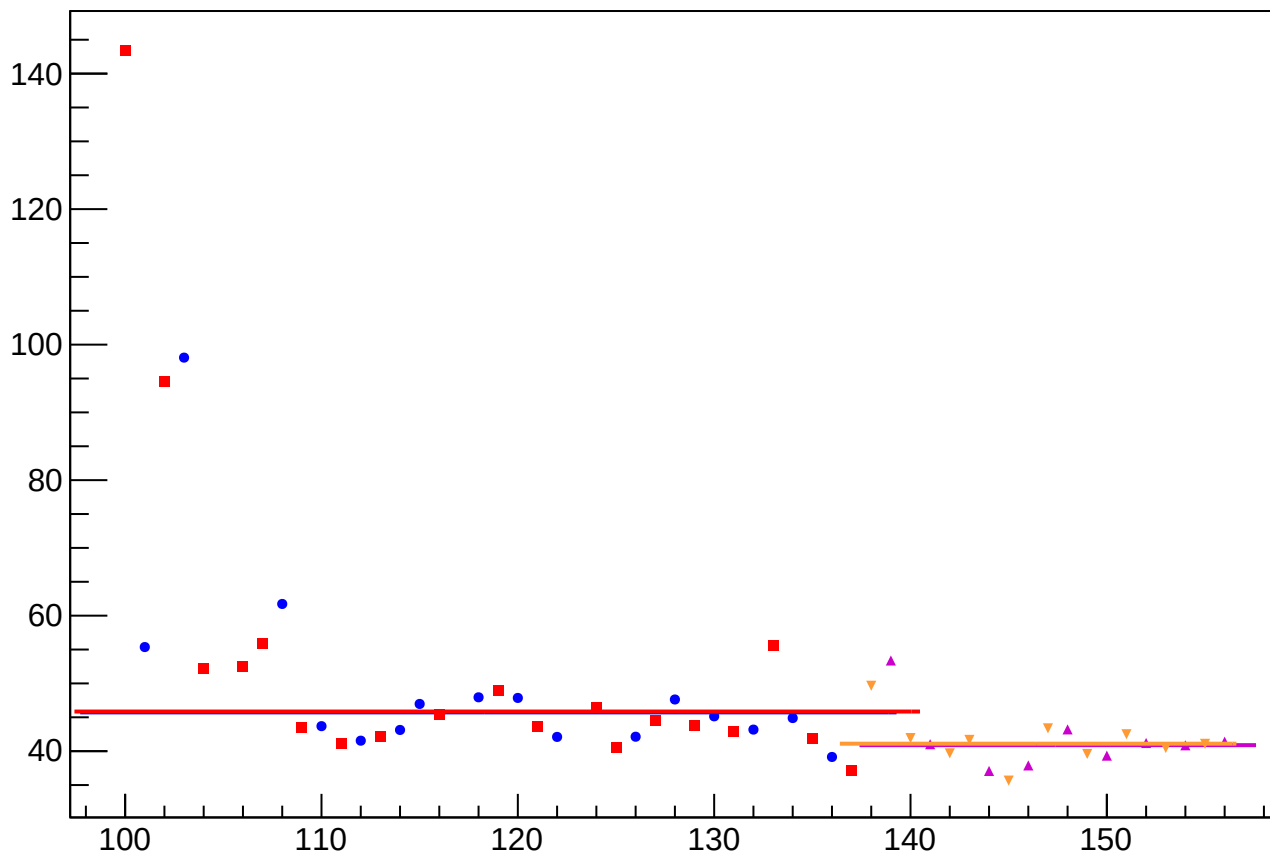
Right: 21.600 $\pm$ 12.306 χ^2 /NDF: 31.9/34

In: -12.678 $\pm$ 11.252 χ^2 /NDF:29.6/24

Out: -18.518 $\pm$ 11.247 χ^2 /NDF:55.6/28

All: -15.599 $\pm$ 7.955 χ^2 /NDF: 85.3/53

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: 41.105 $\pm$ 0.010 χ^2 /NDF:93516.9/9

Right Out: 45.849 $\pm$ 0.012 χ^2 /NDF: 540156.7/18

Left In: 40.889 $\pm$ 0.010 χ^2 /NDF:130265.3/8

Left: 40.997 $\pm$ 0.007 χ^2 /NDF: 223996.6/18

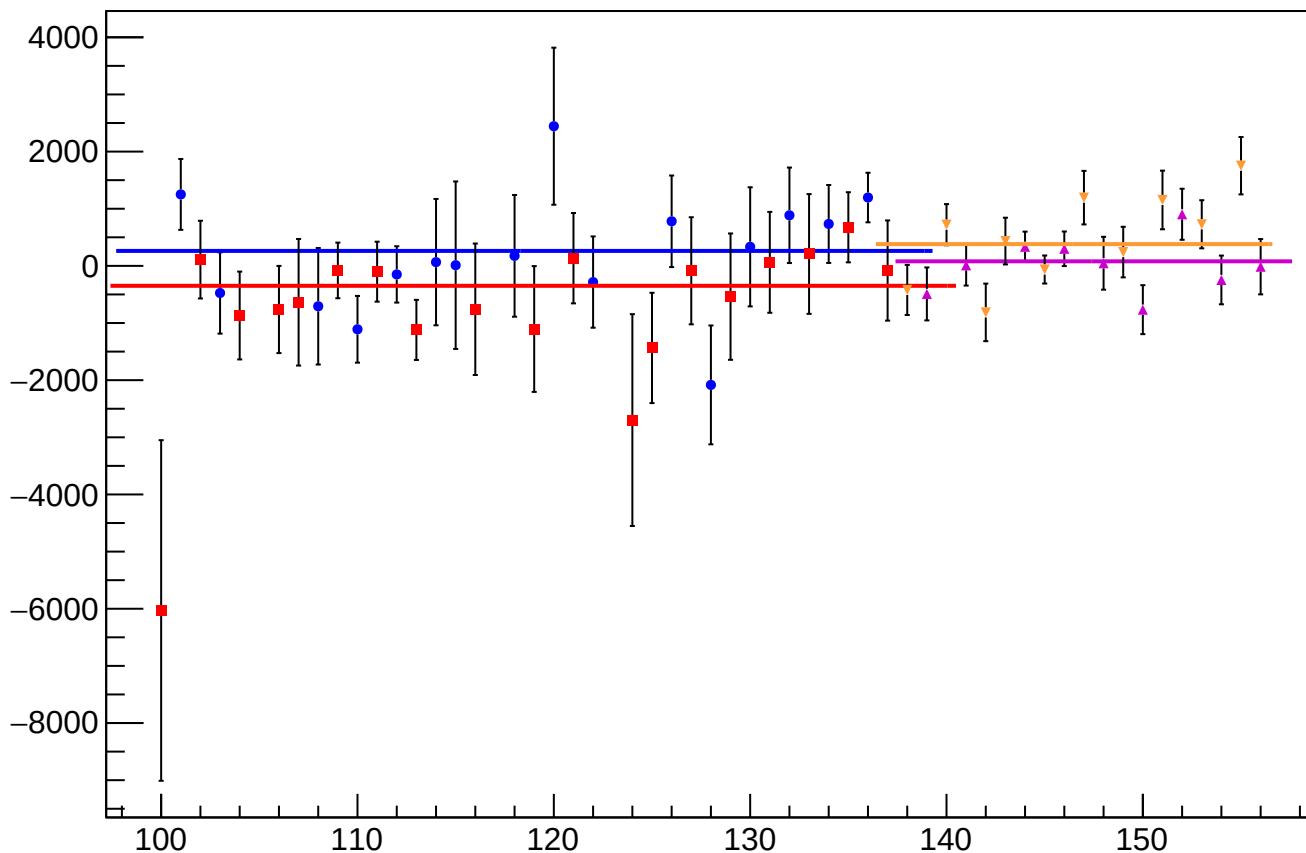
Right: 45.788 $\pm$ 0.009 χ^2 /NDF: 1041667.0/34

In: 42.896 $\pm$ 0.008 χ^2 /NDF:721461.8/24

Out: 43.102 $\pm$ 0.008 χ^2 /NDF:720413.9/28

All: 42.999 $\pm$ 0.006 χ^2 /NDF: 1442209.8/53

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: 381.023 $\pm$ 126.482 χ^2 /NDF:26.7/9

Right Out: -348.685 $\pm$ 180.682 χ^2 /NDF: 14.9/18

Left In: 79.599 $\pm$ 126.271 χ^2 /NDF:10.9/8

Left: 230.060 $\pm$ 89.362 χ^2 /NDF: 40.5/18

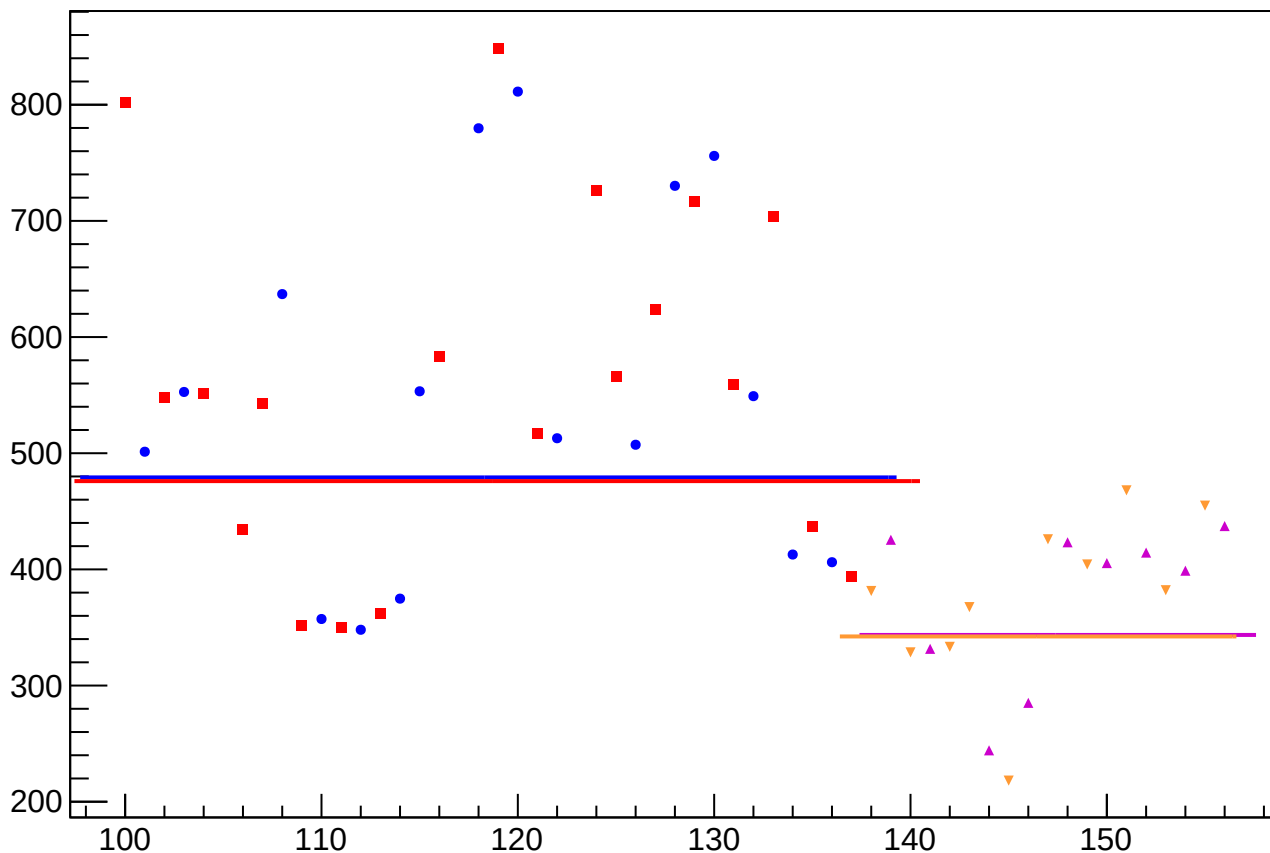
Right: -50.928 $\pm$ 129.333 χ^2 /NDF: 45.5/34

In: 137.460 $\pm$ 104.331 χ^2 /NDF:36.6/24

Out: 141.040 $\pm$ 103.617 χ^2 /NDF:52.6/28

All: 139.262 $\pm$ 73.519 χ^2 /NDF: 89.1/53

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: 342.270+/-0.089 χ^2/NDF : 879941.2/9

Right Out: 475.992+/-0.128 χ^2/NDF : 1006487.7/18

Left In: 343.567+/-0.089 χ^2/NDF : 681268.4/8

Left: 342.920+/-0.063 χ^2/NDF : 1561315.0/18

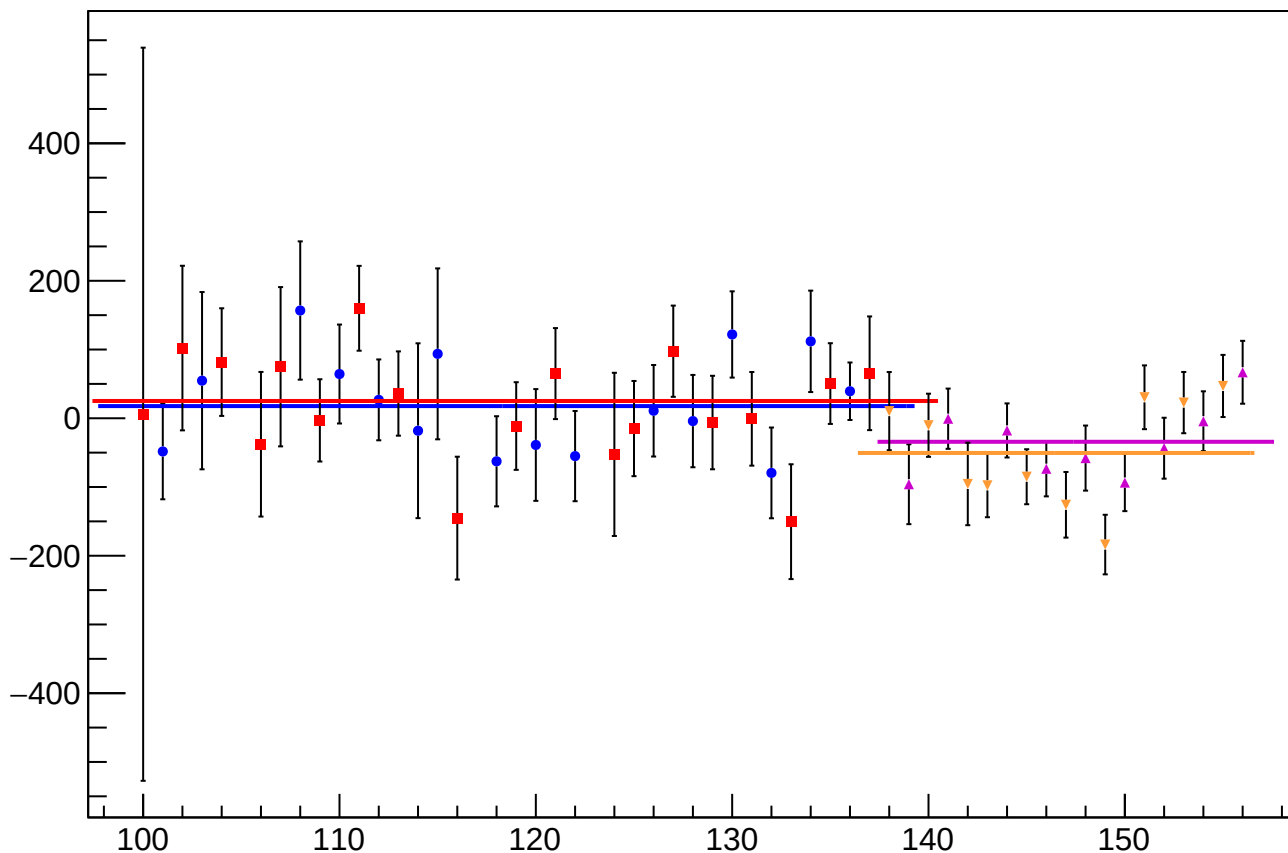
Right: 477.545+/-0.091 χ^2/NDF : 1959484.6/34

In: 386.599+/-0.074 χ^2/NDF : 2365943.2/24

Out: 386.248+/-0.073 χ^2/NDF : 2621630.0/28

All: 386.422+/-0.052 χ^2/NDF : 4987584.6/53

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: -50.460+/-14.778 χ^2/NDF : 26.6/9

Right Out: 25.145+/-17.339 χ^2/NDF : 18.0/18

Left In: -34.214+/-14.710 χ^2/NDF : 10.5/8

Left: -42.299+/-10.426 χ^2/NDF : 37.8/18

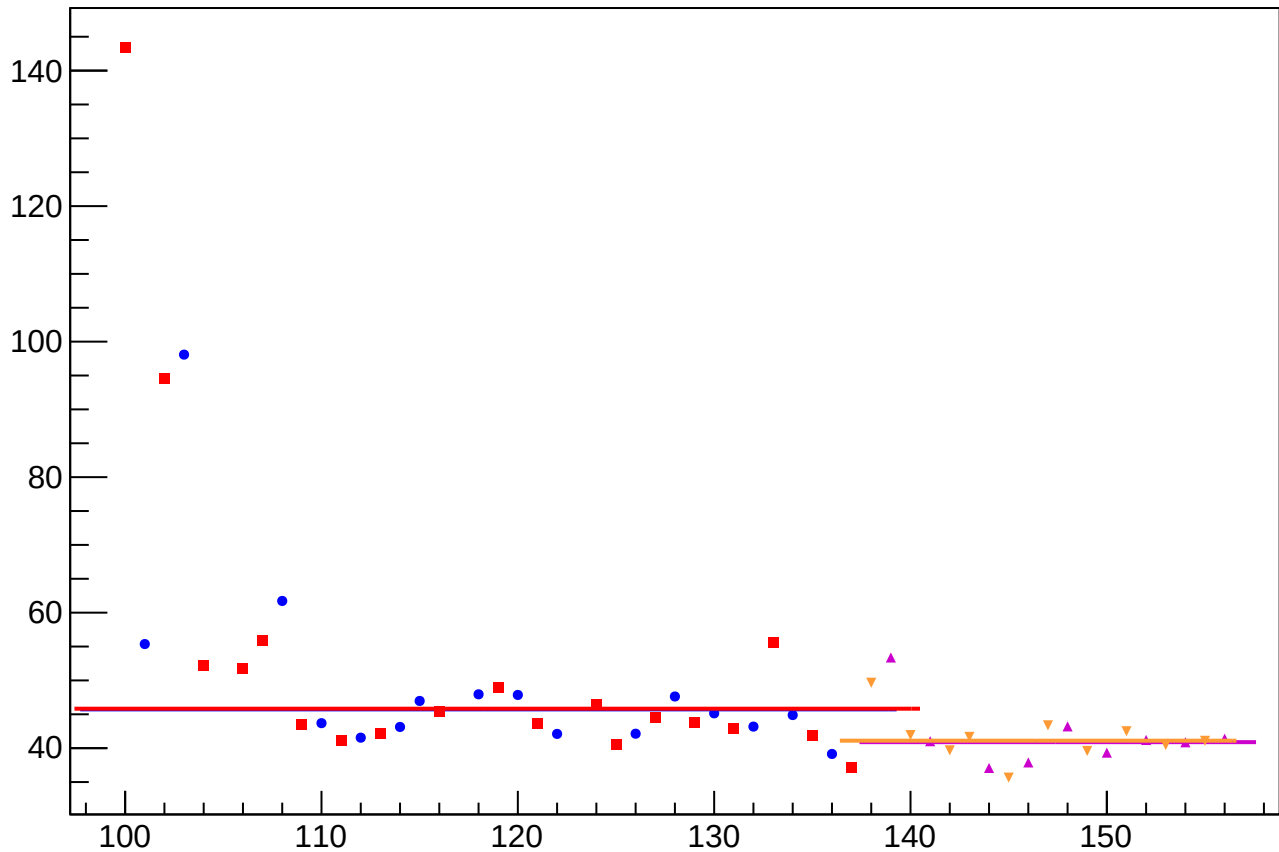
Right: 21.453+/-12.307 χ^2/NDF : 32.0/34

In: -12.676+/-11.252 χ^2/NDF : 29.6/24

Out: -18.647+/-11.247 χ^2/NDF : 55.6/28

All: -15.663+/-7.955 χ^2/NDF : 85.4/53

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: 41.105 $\pm$ 0.010 χ^2 /NDF: 93516.9/9

Right Out: 45.825 $\pm$ 0.012 χ^2 /NDF: 538470.5/18

Left In: 40.889 $\pm$ 0.010 χ^2 /NDF: 130265.3/8

Left: 40.997 $\pm$ 0.007 χ^2 /NDF: 223996.6/18

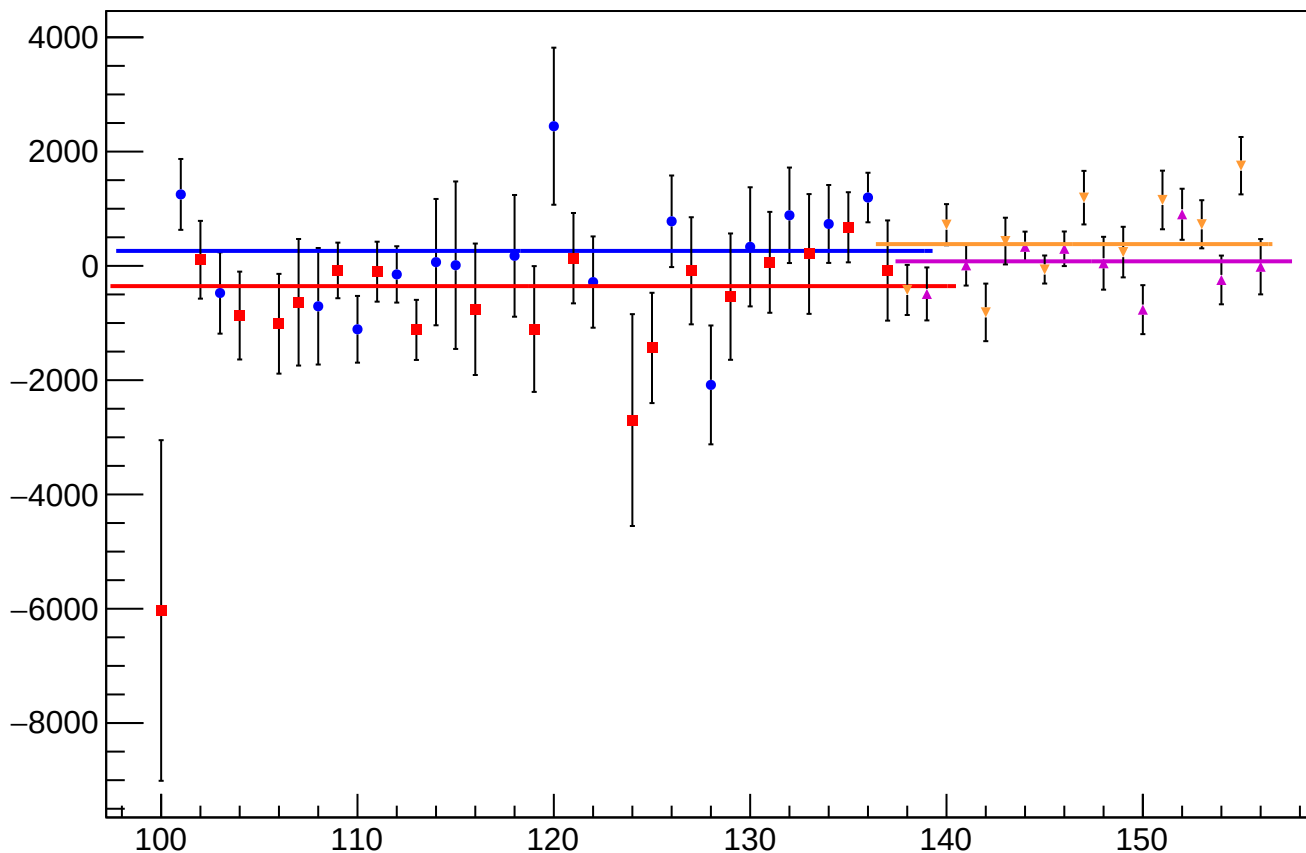
Right: 45.776 $\pm$ 0.009 χ^2 /NDF: 1039966.5/34

In: 42.896 $\pm$ 0.008 χ^2 /NDF: 721464.8/24

Out: 43.091 $\pm$ 0.008 χ^2 /NDF: 717844.4/28

All: 42.994 $\pm$ 0.006 χ^2 /NDF: 1439610.5/53

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: 381.022 $\pm$ 126.482 χ^2 /NDF:26.7/9

Right Out: -354.204 $\pm$ 181.903 χ^2 /NDF: 15.2/18

Left In: 79.599 $\pm$ 126.271 χ^2 /NDF:10.9/8

Left: 230.059 $\pm$ 89.362 χ^2 /NDF: 40.5/18

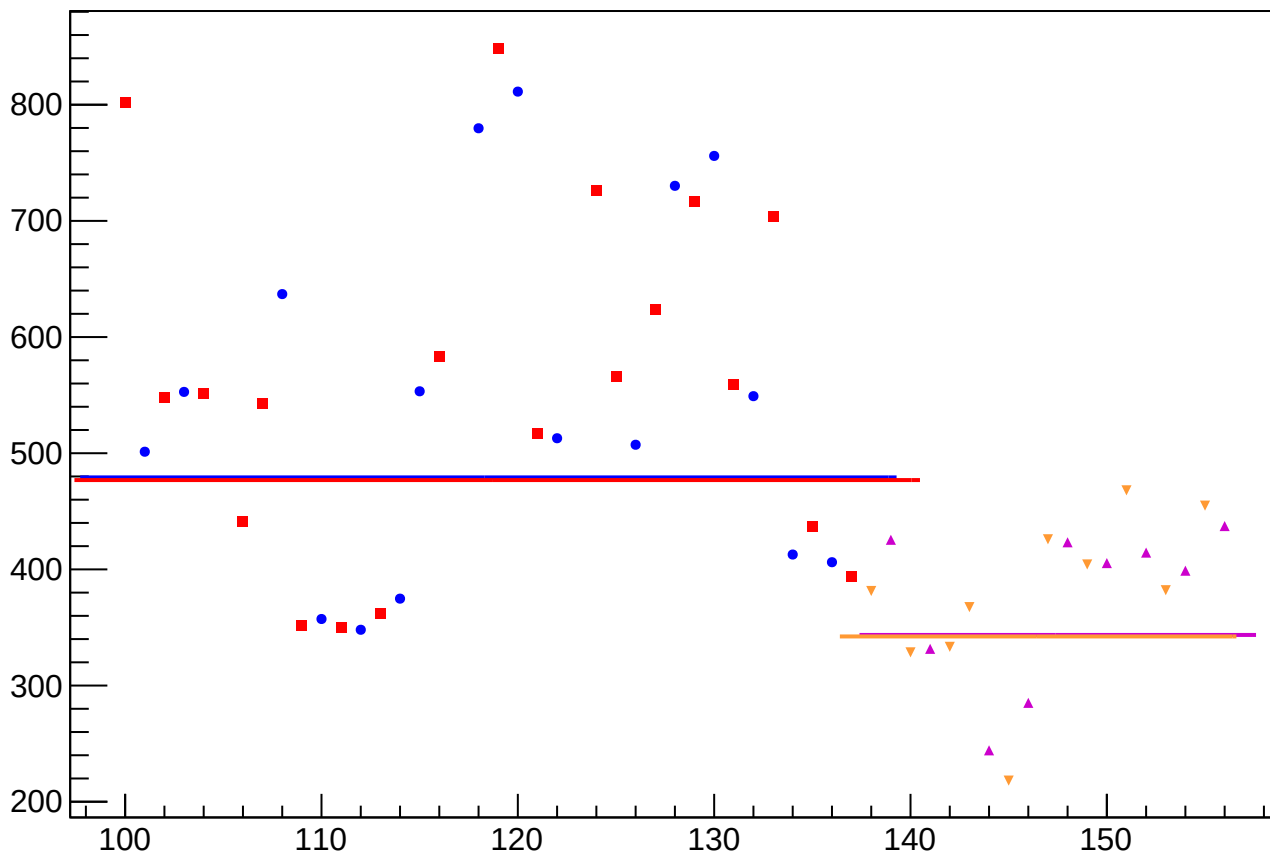
Right: -51.682 $\pm$ 129.779 χ^2 /NDF: 45.8/34

In: 137.461 $\pm$ 104.331 χ^2 /NDF:36.6/24

Out: 141.404 $\pm$ 103.846 χ^2 /NDF:52.9/28

All: 139.442 $\pm$ 73.601 χ^2 /NDF: 89.5/53

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: 342.270+/-0.089 χ^2/NDF : 879941.7/9

Right Out: 476.893+/-0.129 χ^2/NDF : 1003767.4/18

Left In: 343.568+/-0.089 χ^2/NDF : 681268.7/8

Left: 342.920+/-0.063 χ^2/NDF : 1561315.8/18

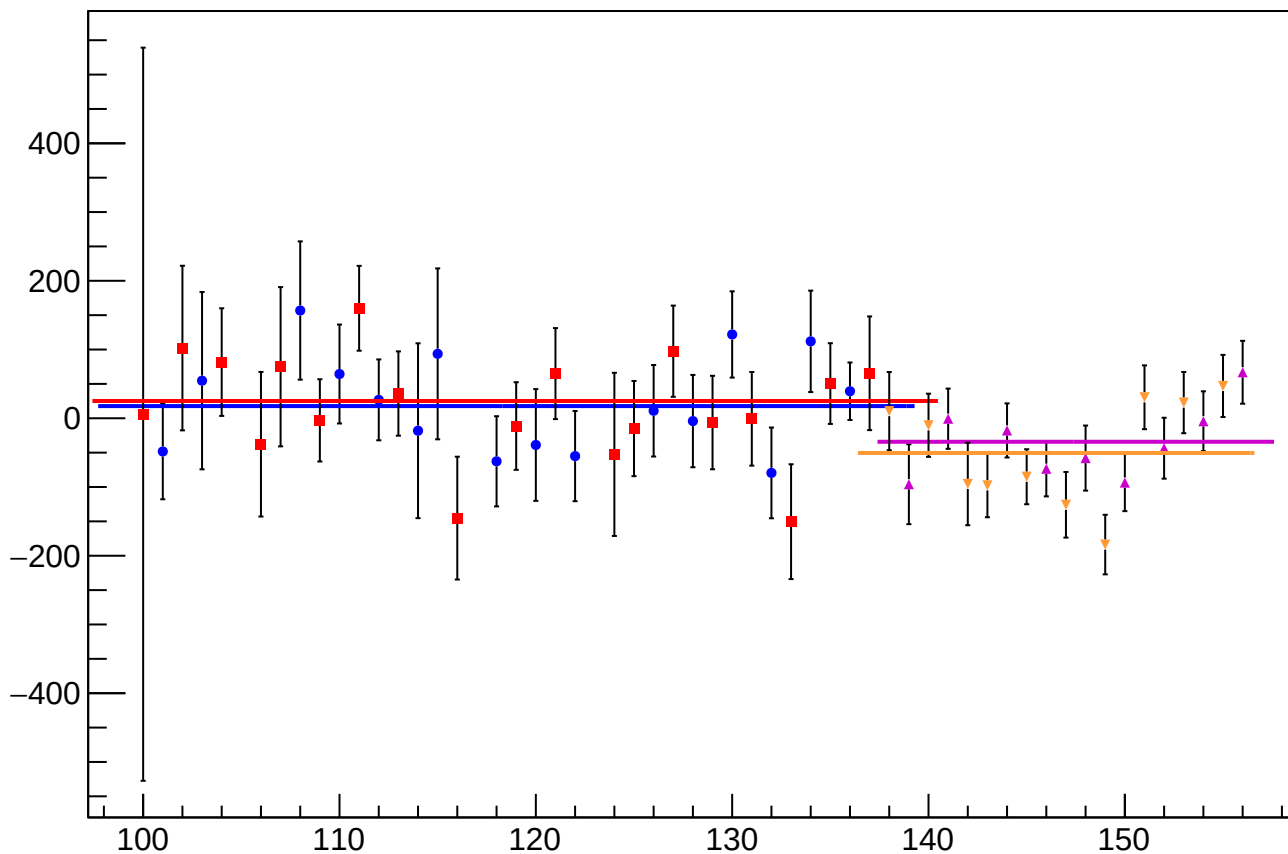
Right: 478.016+/-0.092 χ^2/NDF : 1956645.2/34

In: 386.600+/-0.074 χ^2/NDF : 2365988.6/24

Out: 386.145+/-0.073 χ^2/NDF : 2622133.2/28

All: 386.371+/-0.052 χ^2/NDF : 4988140.8/53

eigen_cor_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.706 $\pm$ 17.470 χ^2 /NDF: 13.9/15

Left Out: -50.460 $\pm$ 14.778 χ^2 /NDF:26.6/9

Right Out: 25.145 $\pm$ 17.339 χ^2 /NDF: 18.0/18

Left In: -34.214 $\pm$ 14.710 χ^2 /NDF:10.5/8

Left: -42.299 $\pm$ 10.426 χ^2 /NDF: 37.8/18

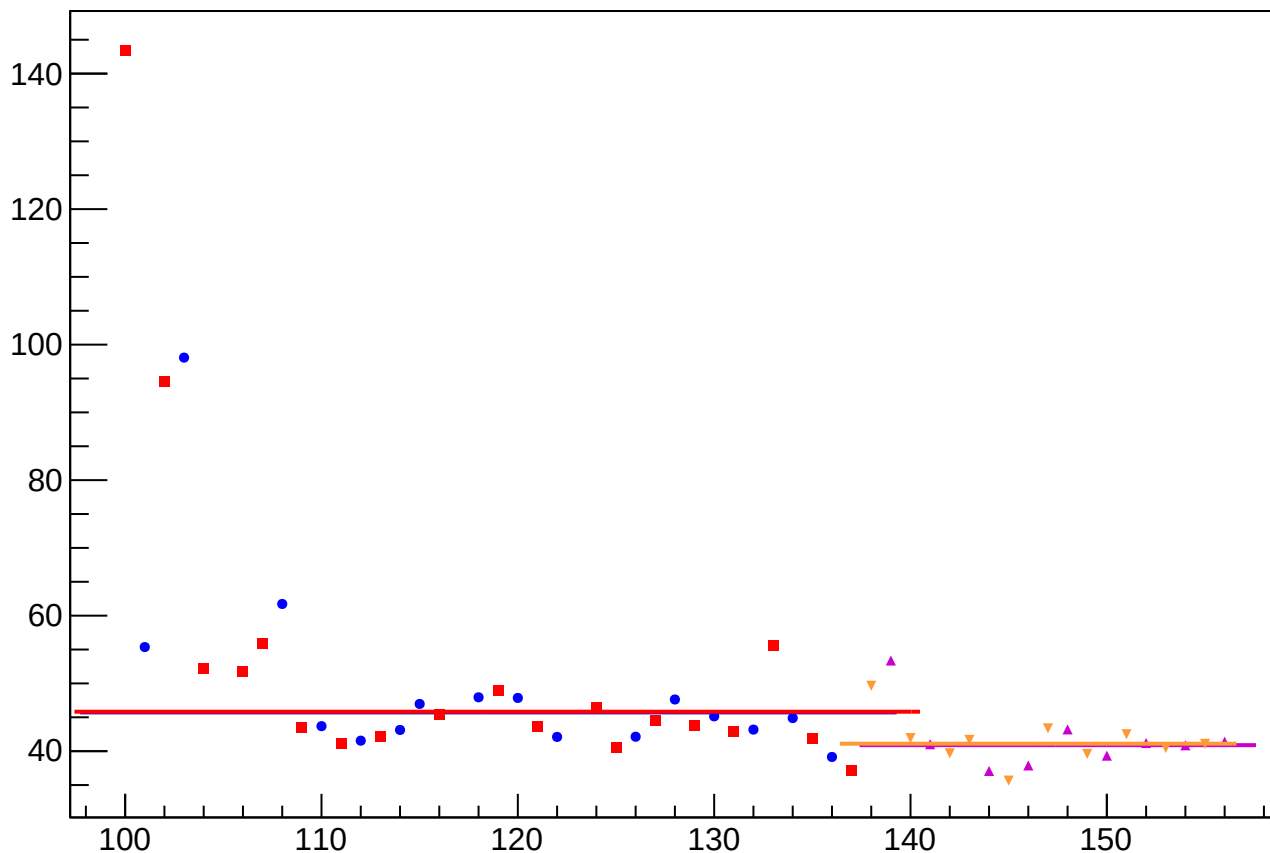
Right: 21.453 $\pm$ 12.307 χ^2 /NDF: 32.0/34

In: -12.676 $\pm$ 11.252 χ^2 /NDF:29.6/24

Out: -18.647 $\pm$ 11.247 χ^2 /NDF:55.6/28

All: -15.663 $\pm$ 7.955 χ^2 /NDF: 85.4/53

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: 41.105+/-0.010 χ^2/NDF : 93516.9/9

Right Out: 45.825+/-0.012 χ^2/NDF : 538470.5/18

Left In: 40.889+/-0.010 χ^2/NDF : 130265.3/8

Left: 40.997+/-0.007 χ^2/NDF : 223996.6/18

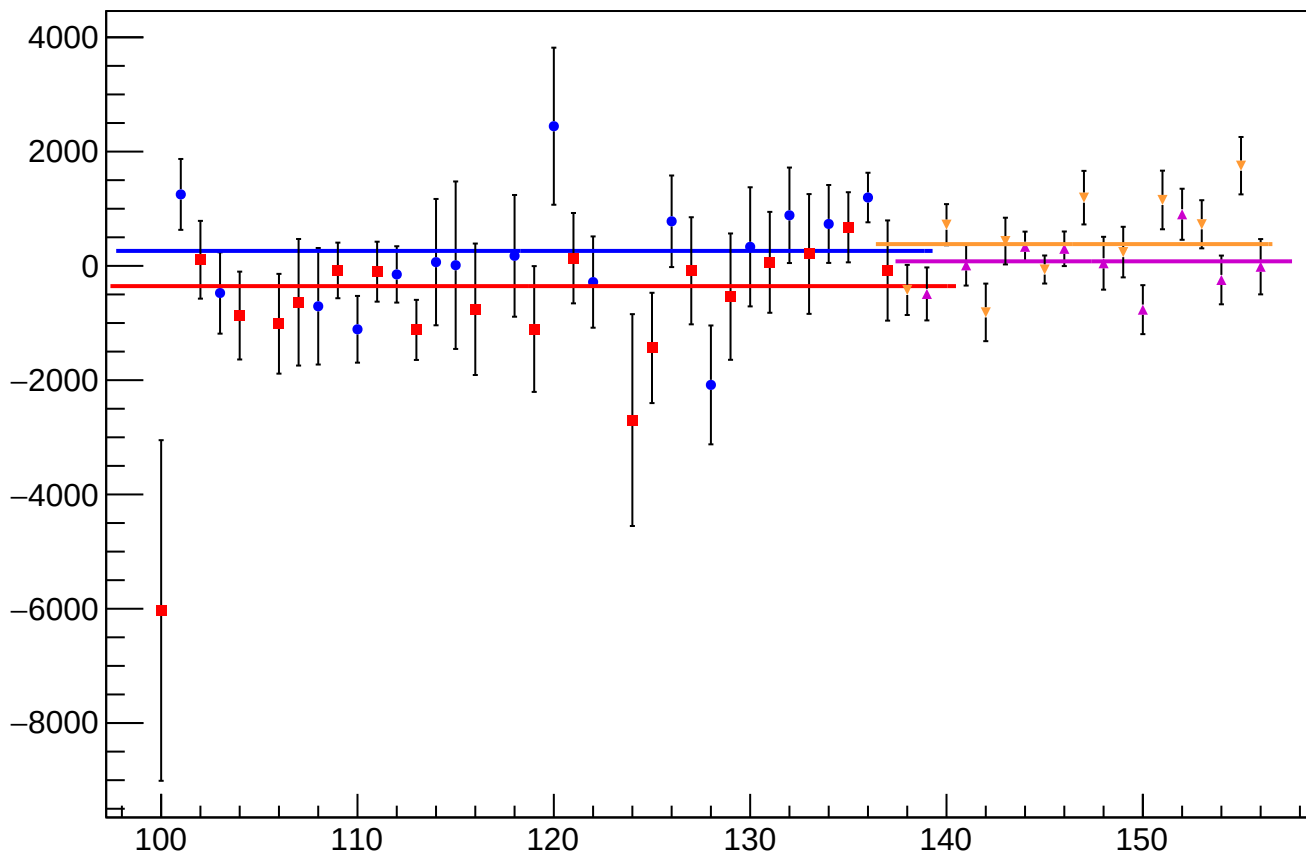
Right: 45.776+/-0.009 χ^2/NDF : 1039966.5/34

In: 42.896+/-0.008 χ^2/NDF : 721464.8/24

Out: 43.091+/-0.008 χ^2/NDF : 717844.4/28

All: 42.994+/-0.006 χ^2/NDF : 1439610.5/53

asym_sam_15_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 261.947 $\pm$ 185.212 χ^2 /NDF: 25.0/15

Left Out: 381.022 $\pm$ 126.482 χ^2 /NDF:26.7/9

Right Out: -354.204 $\pm$ 181.903 χ^2 /NDF: 15.2/18

Left In: 79.599 $\pm$ 126.271 χ^2 /NDF:10.9/8

Left: 230.059 $\pm$ 89.362 χ^2 /NDF: 40.5/18

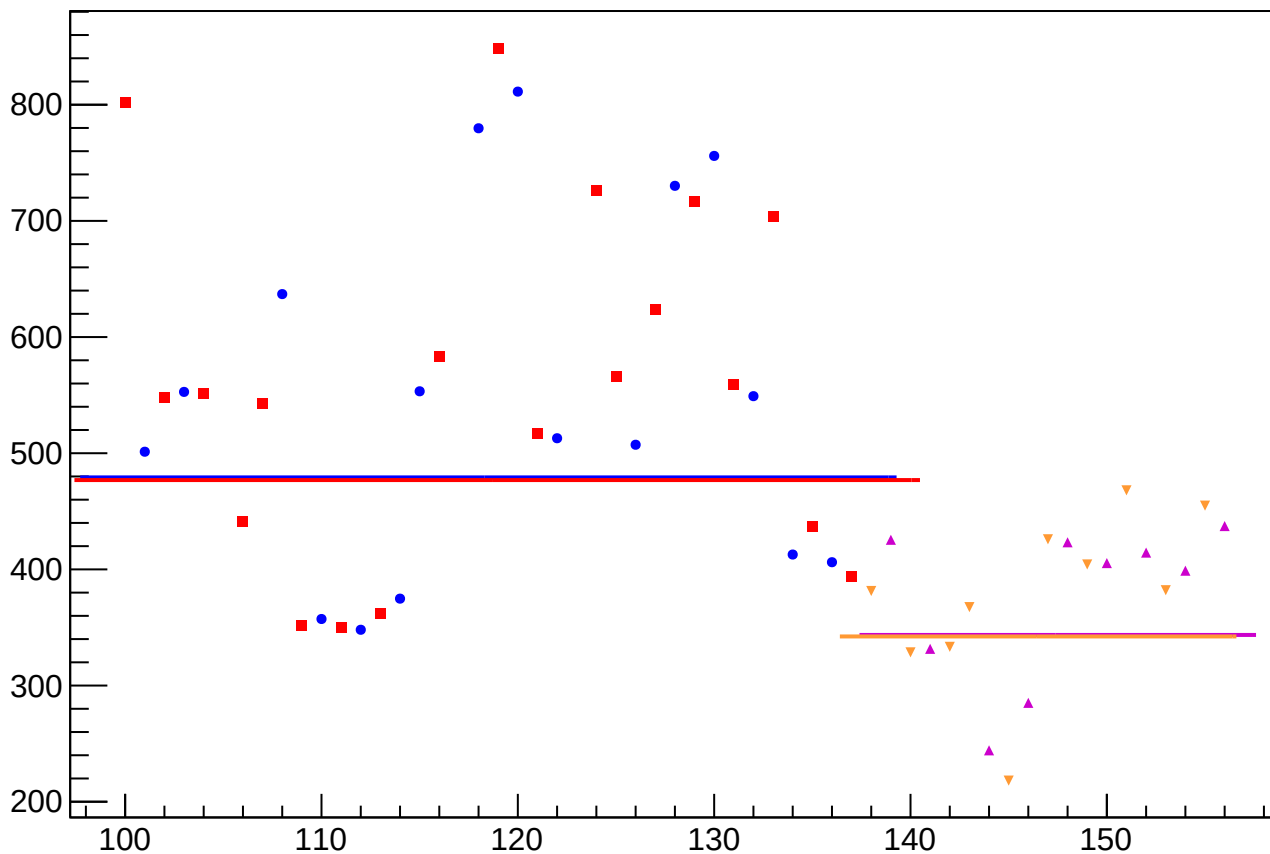
Right: -51.682 $\pm$ 129.779 χ^2 /NDF: 45.8/34

In: 137.461 $\pm$ 104.331 χ^2 /NDF:36.6/24

Out: 141.404 $\pm$ 103.846 χ^2 /NDF:52.9/28

All: 139.442 $\pm$ 73.601 χ^2 /NDF: 89.5/53

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: 342.270+/-0.089 χ^2/NDF : 879941.7/9

Right Out: 476.893+/-0.129 χ^2/NDF : 1003767.4/18

Left In: 343.568+/-0.089 χ^2/NDF : 681268.7/8

Left: 342.920+/-0.063 χ^2/NDF : 1561315.8/18

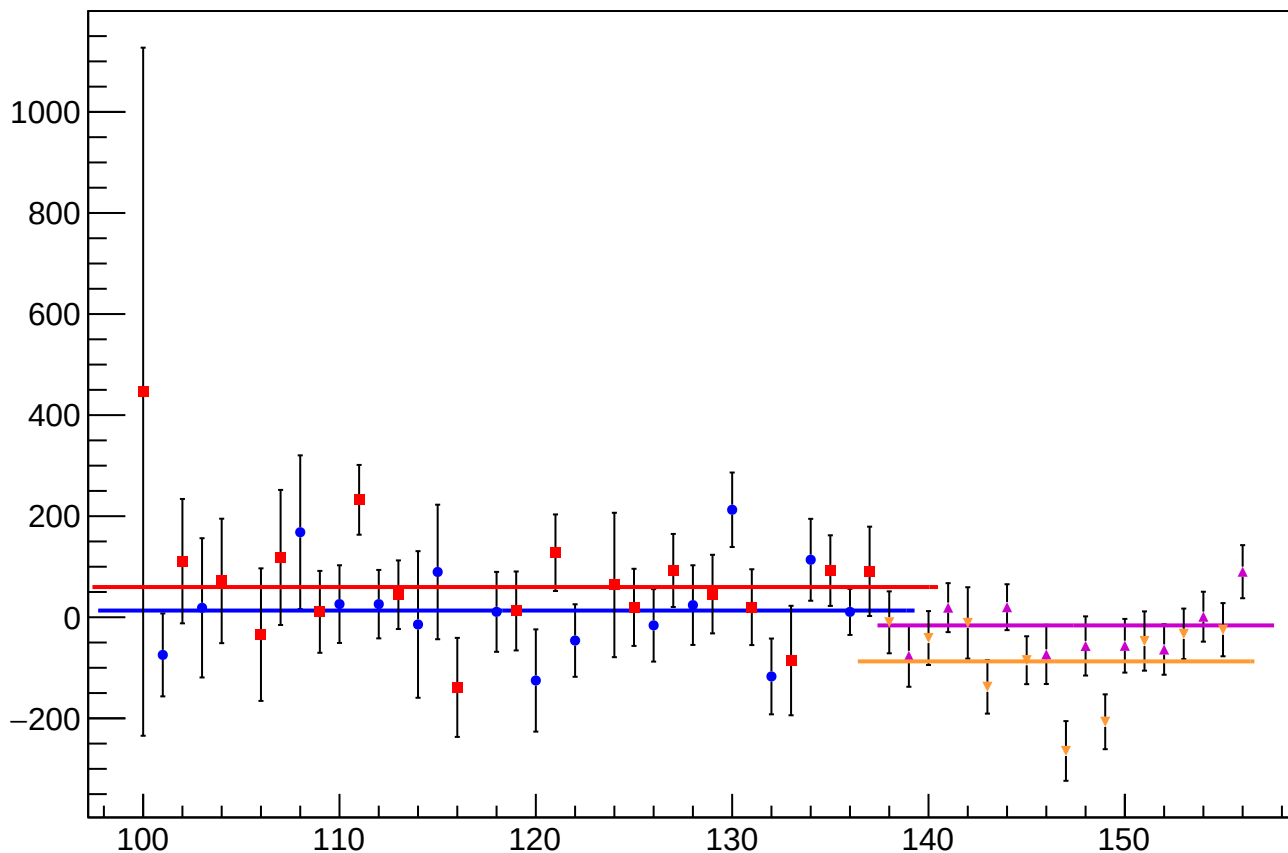
Right: 478.016+/-0.092 χ^2/NDF : 1956645.2/34

In: 386.600+/-0.074 χ^2/NDF : 2365988.6/24

Out: 386.145+/-0.073 χ^2/NDF : 2622133.2/28

All: 386.371+/-0.052 χ^2/NDF : 4988140.8/53

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: -87.314 ± 17.415 $\chi^2/\text{NDF}: 21.3/9$

Right Out: 59.810 ± 20.234 $\chi^2/\text{NDF}: 16.1/18$

Left In: -16.137 ± 17.439 $\chi^2/\text{NDF}: 9.3/8$

Left: -51.775 ± 12.323 $\chi^2/\text{NDF}: 39.0/18$

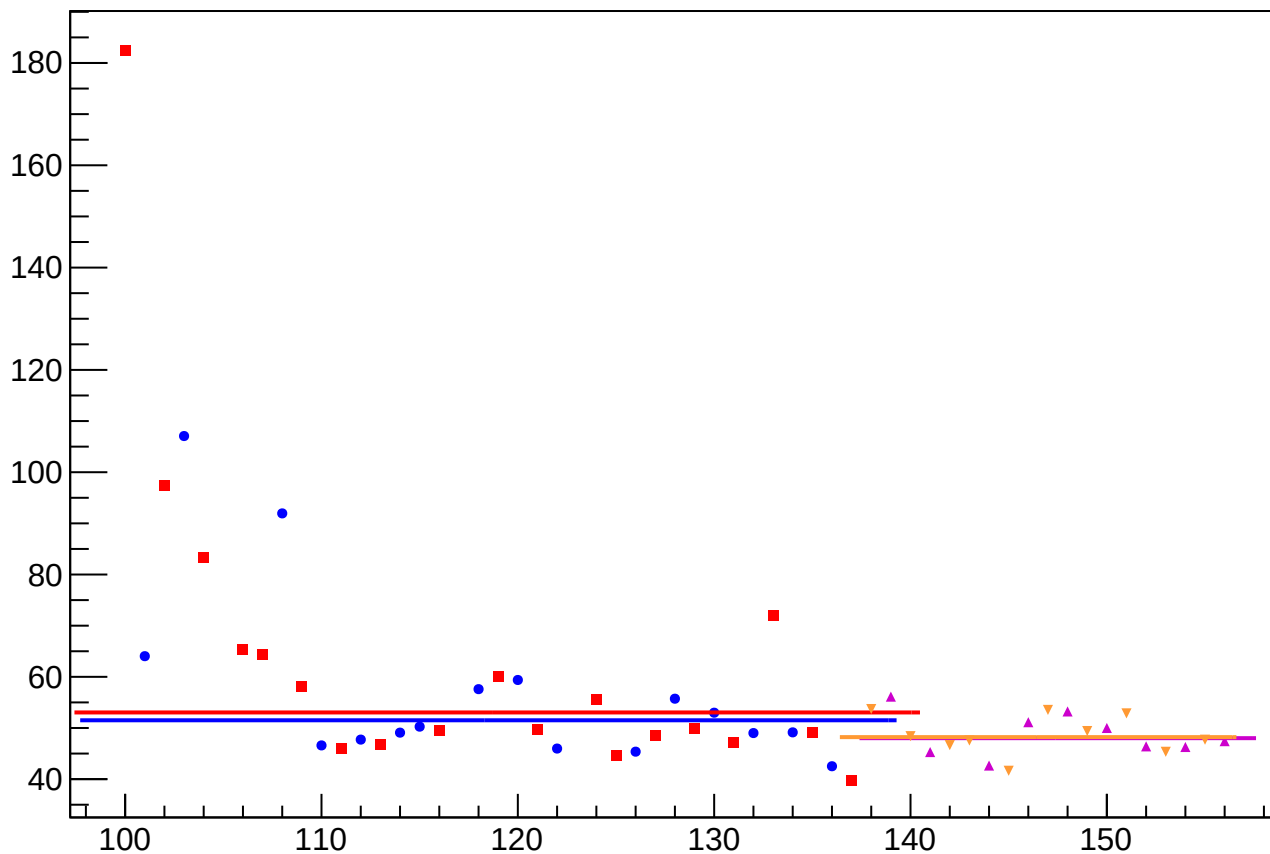
Right: 36.091 ± 14.170 $\chi^2/\text{NDF}: 36.0/34$

In: -3.328 ± 13.101 $\chi^2/\text{NDF}: 27.7/24$

Out: -24.707 ± 13.199 $\chi^2/\text{NDF}: 67.8/28$

All: -13.937 ± 9.298 $\chi^2/\text{NDF}: 96.9/53$

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: 48.213 $\pm$ 0.012 χ^2 /NDF: 92351.4/9

Right Out: 53.037 $\pm$ 0.014 χ^2 /NDF: 712908.4/18

Left In: 48.010 $\pm$ 0.012 χ^2 /NDF: 98526.8/8

Left: 48.112 $\pm$ 0.009 χ^2 /NDF: 191013.7/18

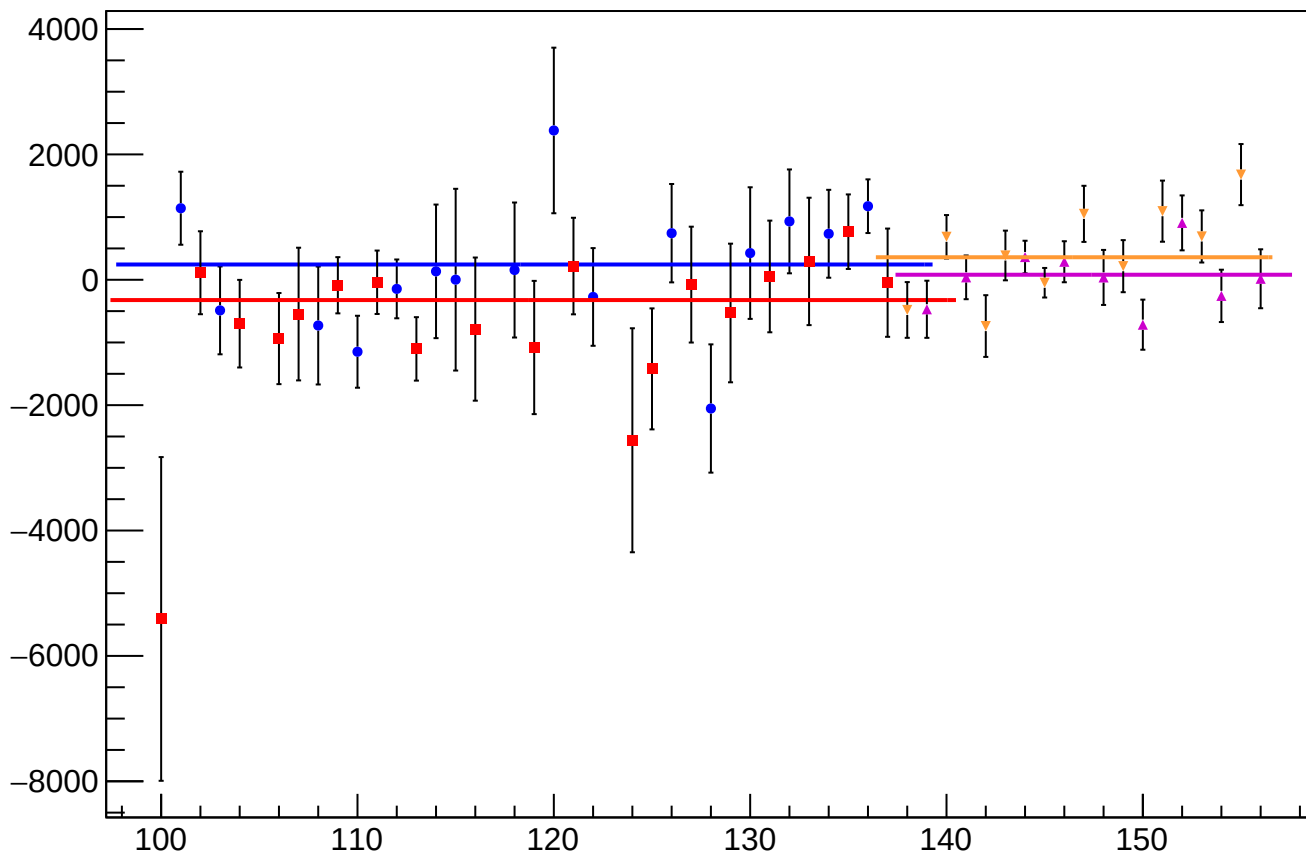
Right: 52.257 $\pm$ 0.010 χ^2 /NDF: 1385808.8/34

In: 49.533 $\pm$ 0.009 χ^2 /NDF: 800587.8/24

Out: 50.266 $\pm$ 0.009 χ^2 /NDF: 870575.0/28

All: 49.897 $\pm$ 0.007 χ^2 /NDF: 1674270.5/53

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: 359.392 $\pm$ 122.321 χ^2 /NDF:25.1/9

Right Out: -323.628 $\pm$ 173.632 χ^2 /NDF: 16.5/18

Left In: 80.349 $\pm$ 124.898 χ^2 /NDF:11.3/8

Left: 222.779 $\pm$ 87.391 χ^2 /NDF: 39.0/18

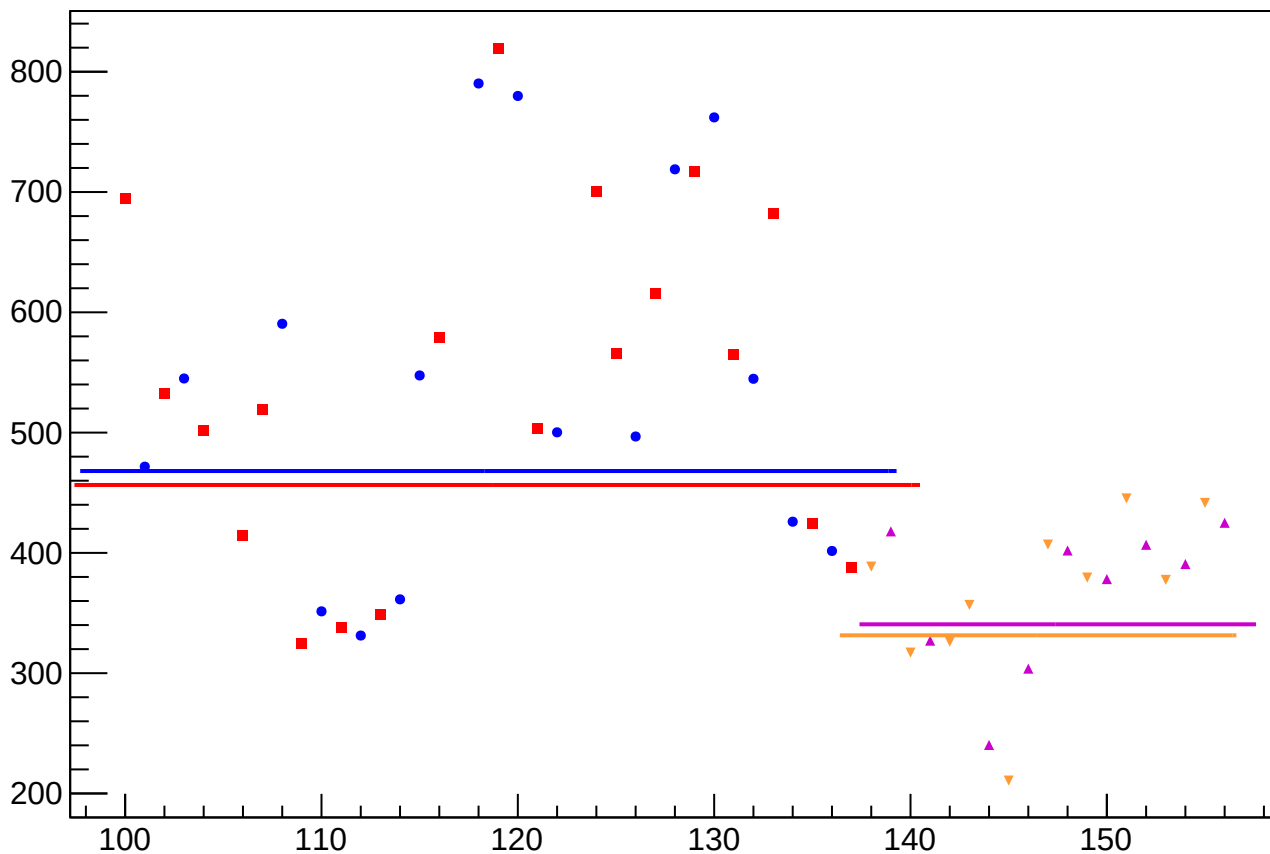
Right: -51.485 $\pm$ 125.258 χ^2 /NDF: 47.2/34

In: 133.132 $\pm$ 102.776 χ^2 /NDF:37.4/24

Out: 132.846 $\pm$ 99.998 χ^2 /NDF:52.0/28

All: 132.985 $\pm$ 71.671 χ^2 /NDF: 89.4/53

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: 331.481 $\pm$ 0.086 χ^2 /NDF: 888315.9/9

Right Out: 456.468 $\pm$ 0.123 χ^2 /NDF: 1082568.2/18

Left In: 340.625 $\pm$ 0.088 χ^2 /NDF: 579457.2/8

Left: 335.958 $\pm$ 0.062 χ^2 /NDF: 1473244.6/18

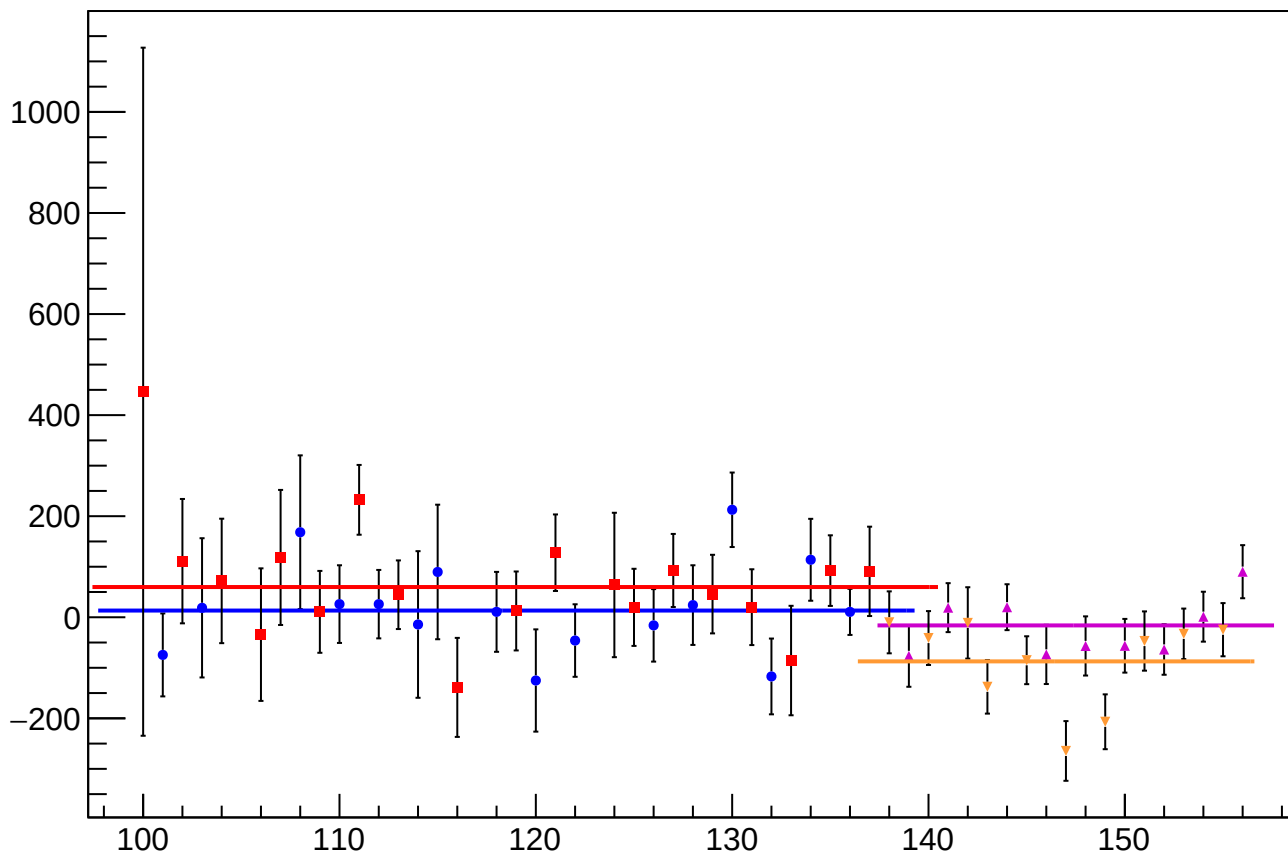
Right: 462.030 $\pm$ 0.089 χ^2 /NDF: 2069762.6/34

In: 381.773 $\pm$ 0.073 χ^2 /NDF: 2234682.7/24

Out: 372.937 $\pm$ 0.071 χ^2 /NDF: 2663482.2/28

All: 377.234 $\pm$ 0.051 χ^2 /NDF: 4905757.8/53

eigen_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: -87.314+/-17.415 χ^2/NDF : 21.3/9

Right Out: 59.811+/-20.234 χ^2/NDF : 16.1/18

Left In: -16.138+/-17.439 χ^2/NDF : 9.3/8

Left: -51.776+/-12.323 χ^2/NDF : 39.0/18

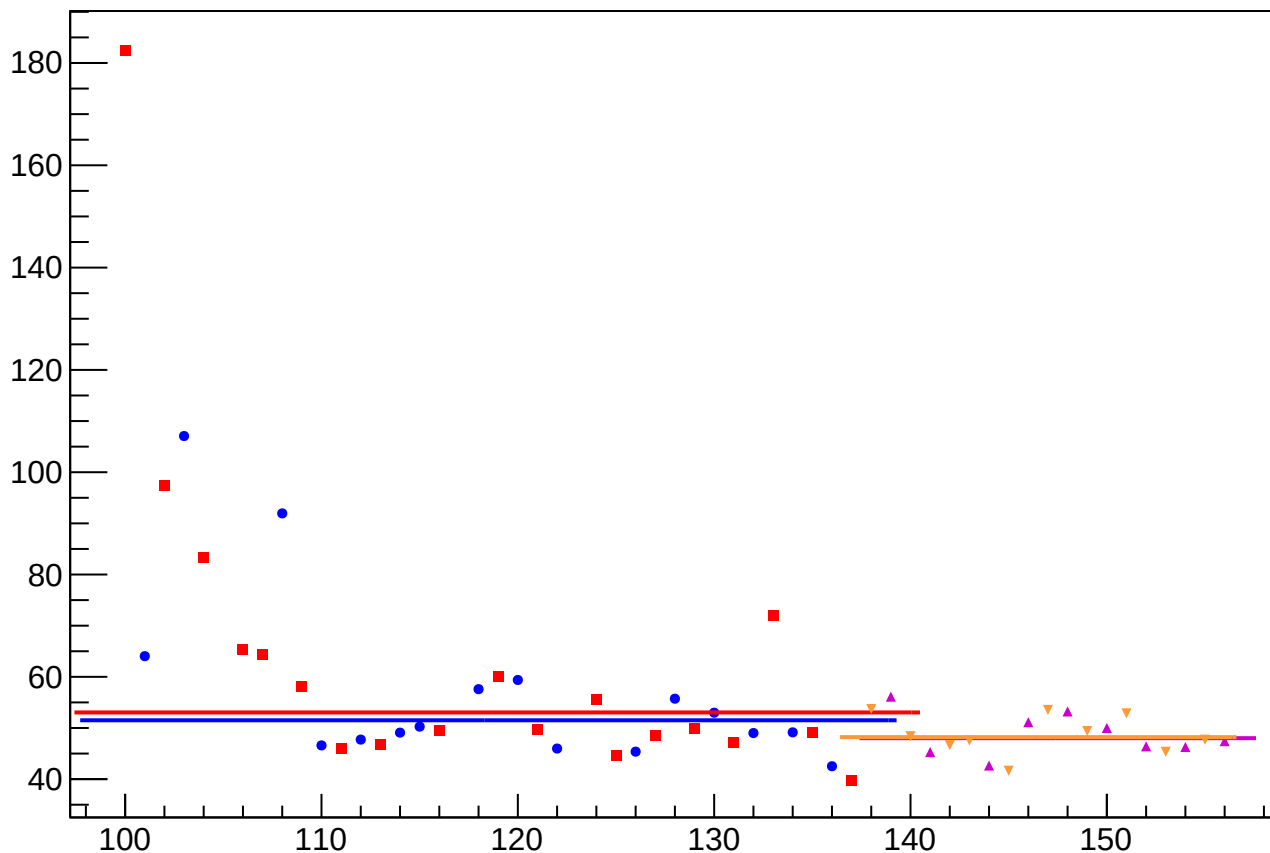
Right: 36.092+/-14.170 χ^2/NDF : 36.0/34

In: -3.328+/-13.101 χ^2/NDF : 27.7/24

Out: -24.706+/-13.199 χ^2/NDF : 67.8/28

All: -13.937+/-9.298 χ^2/NDF : 96.9/53

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: 48.213 $\pm$ 0.012 χ^2 /NDF: 92349.5/9

Right Out: 53.037 $\pm$ 0.014 χ^2 /NDF: 712918.4/18

Left In: 48.010 $\pm$ 0.012 χ^2 /NDF: 98524.4/8

Left: 48.112 $\pm$ 0.009 χ^2 /NDF: 191009.4/18

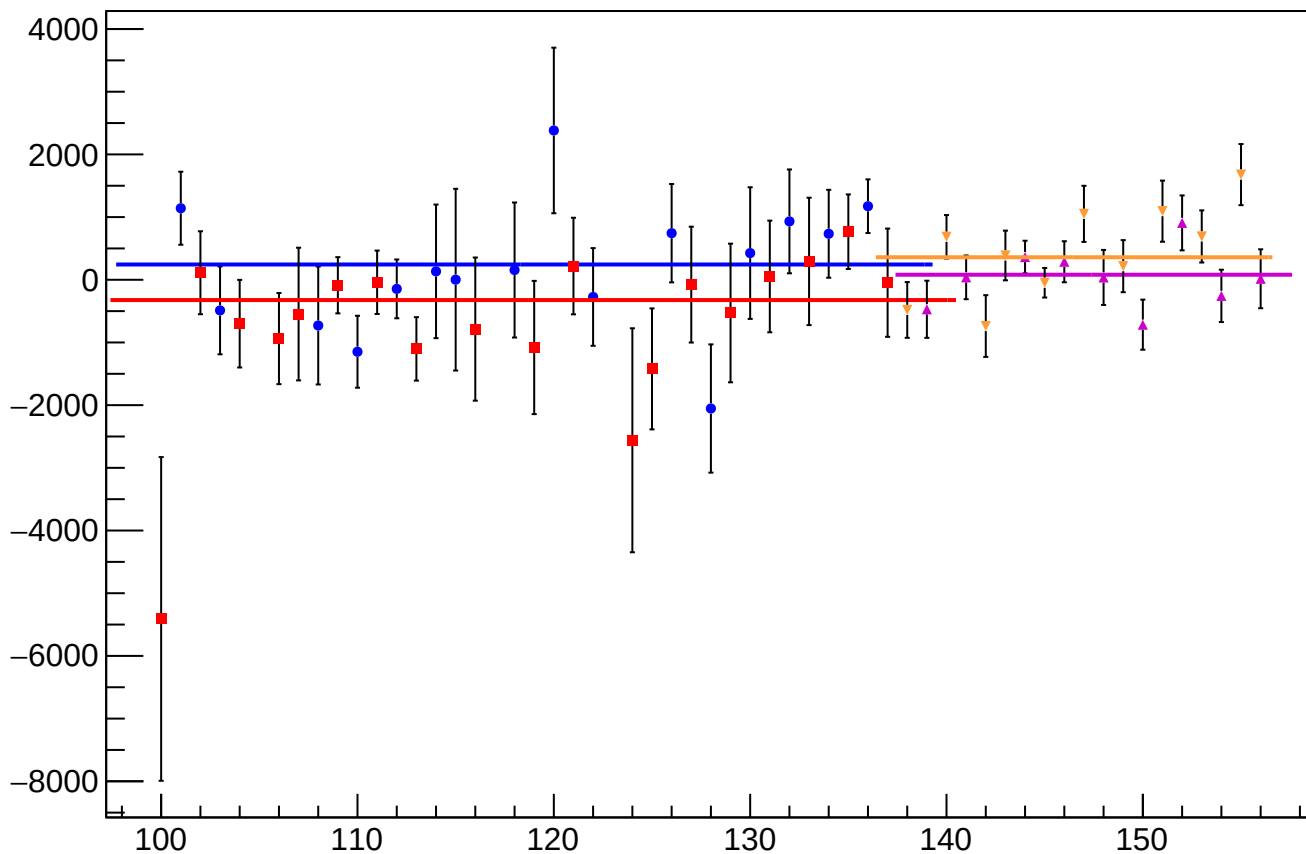
Right: 52.257 $\pm$ 0.010 χ^2 /NDF: 1385824.6/34

In: 49.533 $\pm$ 0.009 χ^2 /NDF: 800589.2/24

Out: 50.266 $\pm$ 0.009 χ^2 /NDF: 870580.7/28

All: 49.897 $\pm$ 0.007 χ^2 /NDF: 1674277.8/53

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: 359.392 $\pm$ 122.321 χ^2 /NDF:25.1/9

Right Out: -323.628 $\pm$ 173.631 χ^2 /NDF: 16.5/18

Left In: 80.349 $\pm$ 124.898 χ^2 /NDF:11.3/8

Left: 222.780 $\pm$ 87.391 χ^2 /NDF: 39.0/18

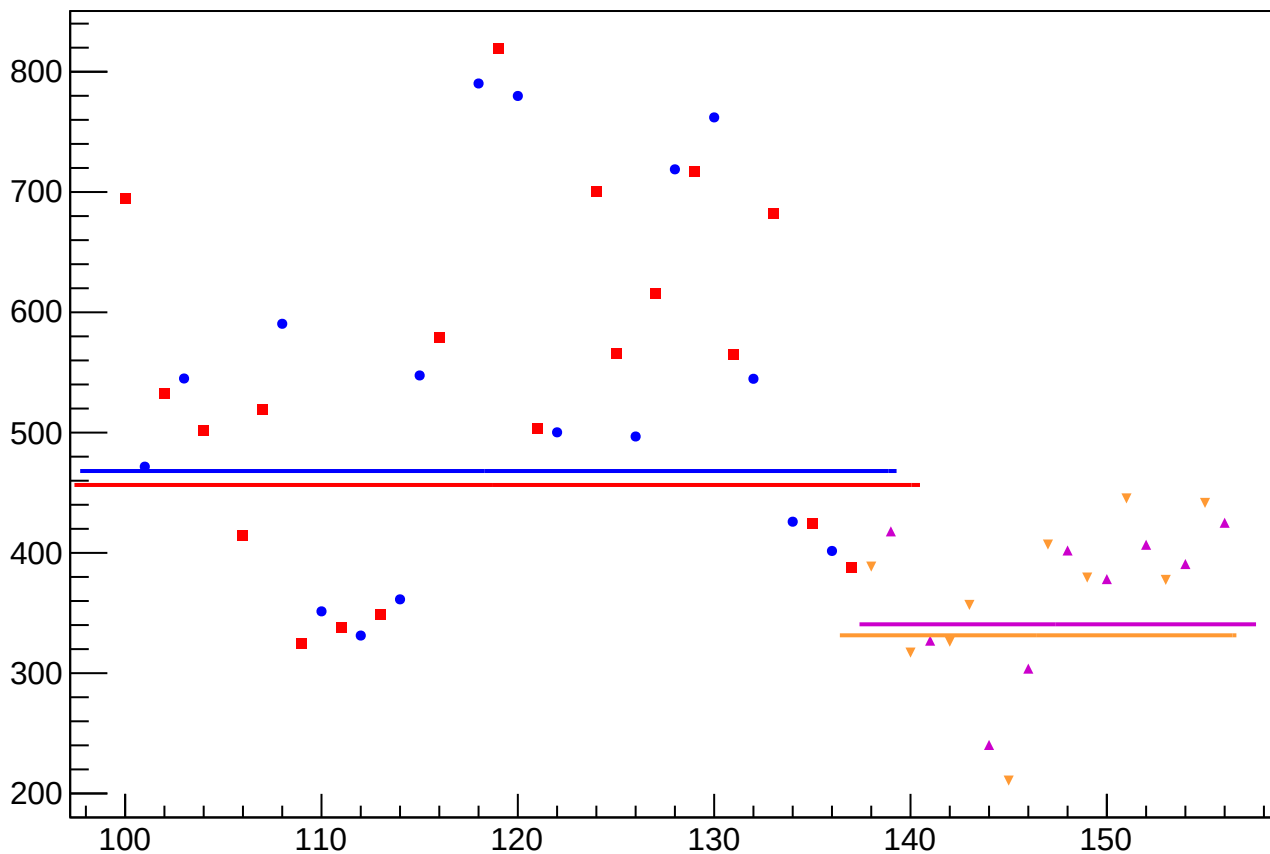
Right: -51.485 $\pm$ 125.257 χ^2 /NDF: 47.2/34

In: 133.132 $\pm$ 102.776 χ^2 /NDF:37.4/24

Out: 132.845 $\pm$ 99.998 χ^2 /NDF:52.0/28

All: 132.985 $\pm$ 71.671 χ^2 /NDF: 89.4/53

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 468.065+/-0.128 χ^2/NDF : 982915.8/15

Left Out: 331.481+/-0.086 χ^2/NDF : 888320.0/9

Right Out: 456.467+/-0.123 χ^2/NDF : 1082565.2/18

Left In: 340.625+/-0.088 χ^2/NDF : 579458.9/8

Left: 335.958+/-0.062 χ^2/NDF : 1473250.7/18

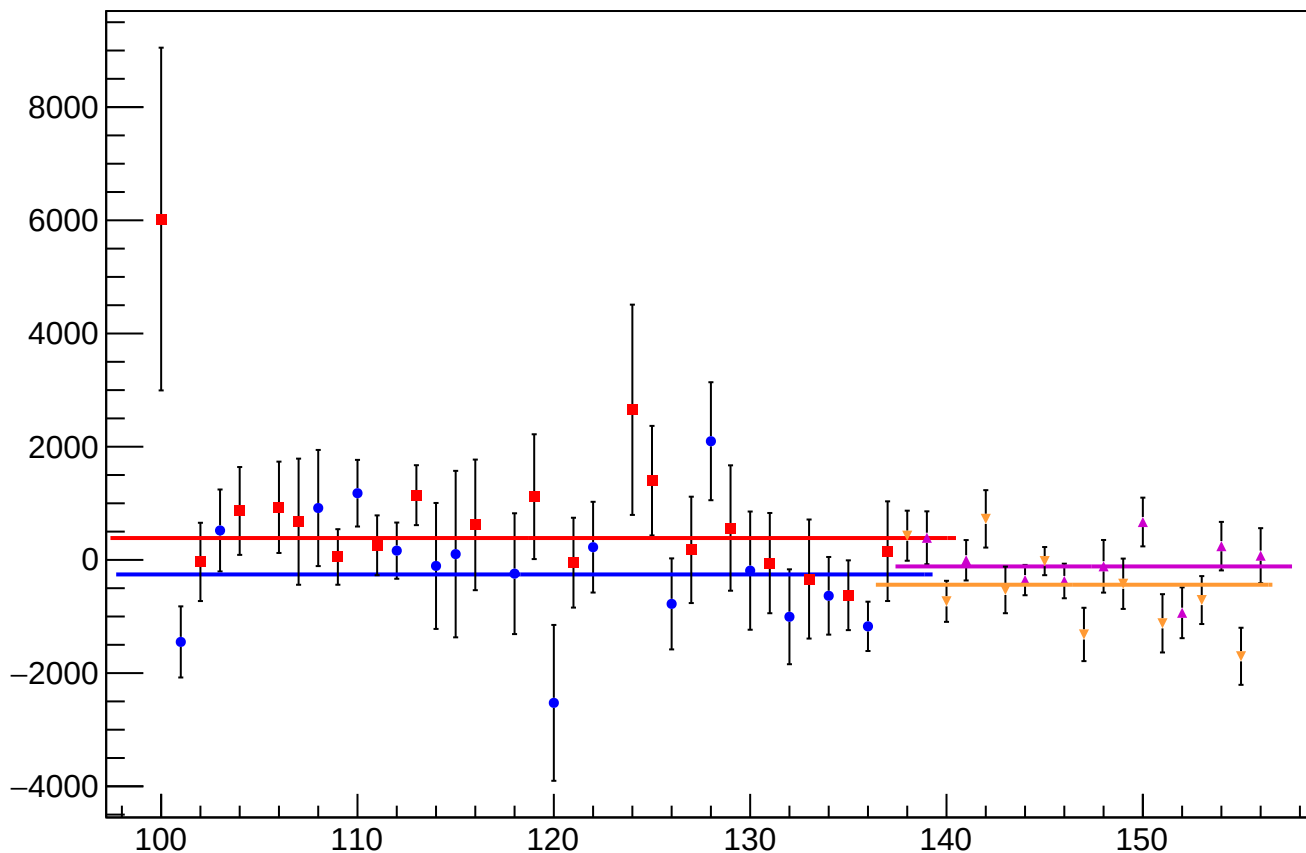
Right: 462.029+/-0.089 χ^2/NDF : 2069760.5/34

In: 381.773+/-0.073 χ^2/NDF : 2234675.6/24

Out: 372.937+/-0.071 χ^2/NDF : 2663476.5/28

All: 377.234+/-0.051 χ^2/NDF : 4905745.4/53

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -256.748+/-186.462 χ^2/NDF : 26.9/15

Left Out: -438.493+/-127.513 χ^2/NDF : 24.5/9

Right Out: 386.449+/-182.363 χ^2/NDF : 14.2/18

Left In: -115.271+/-127.267 χ^2/NDF : 10.3/8

Left: -276.571+/-90.078 χ^2/NDF : 38.0/18

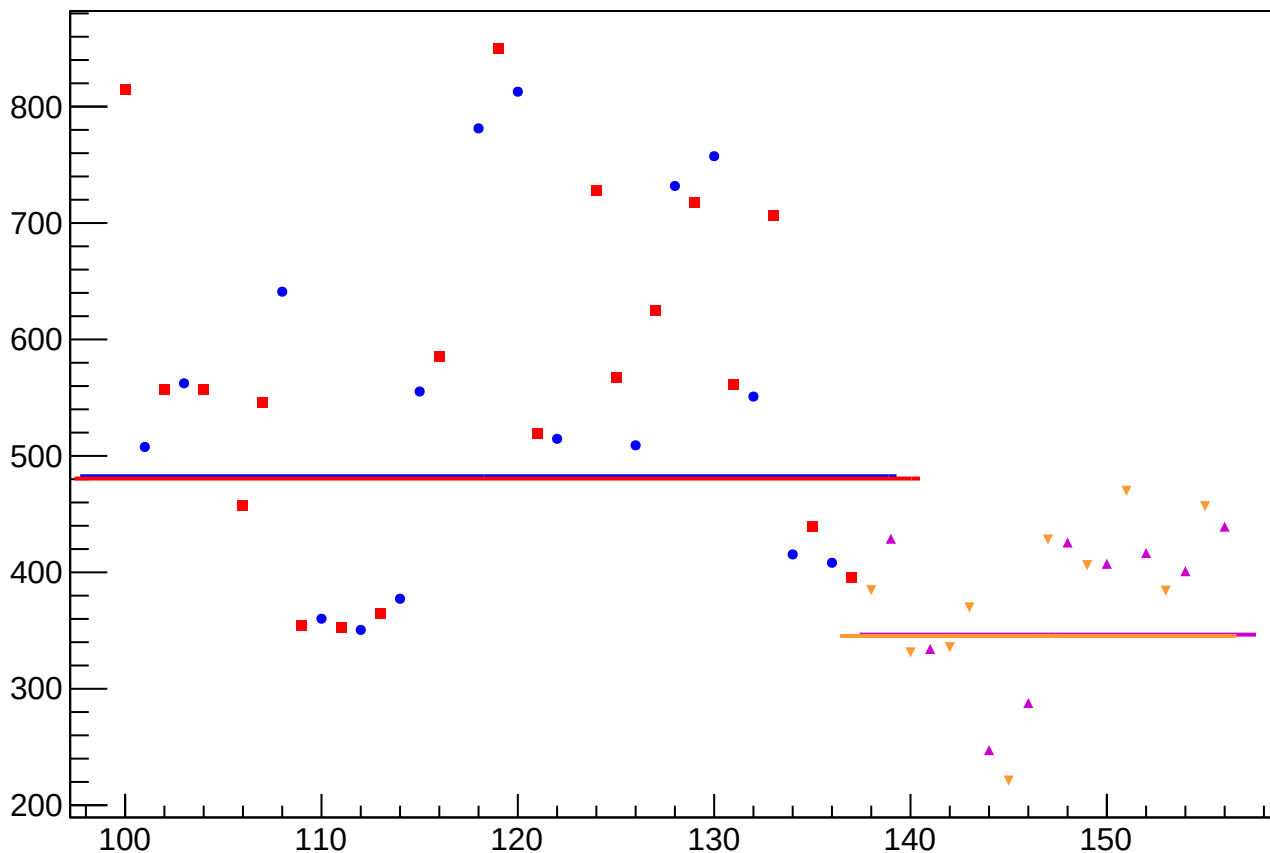
Right: 71.997+/-130.375 χ^2/NDF : 47.2/34

In: -160.234+/-105.117 χ^2/NDF : 37.6/24

Out: -167.606+/-104.501 χ^2/NDF : 52.5/28

All: -163.941+/-74.110 χ^2/NDF : 90.1/53

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 482.512 $\pm$ 0.132 χ^2 /NDF: 946526.1/15

Left Out: 345.352 $\pm$ 0.090 χ^2 /NDF: 856218.2/9

Right Out: 480.559 $\pm$ 0.129 χ^2 /NDF: 993796.3/18

Left In: 346.511 $\pm$ 0.090 χ^2 /NDF: 664347.3/8

Left: 345.933 $\pm$ 0.064 χ^2 /NDF: 1520648.4/18

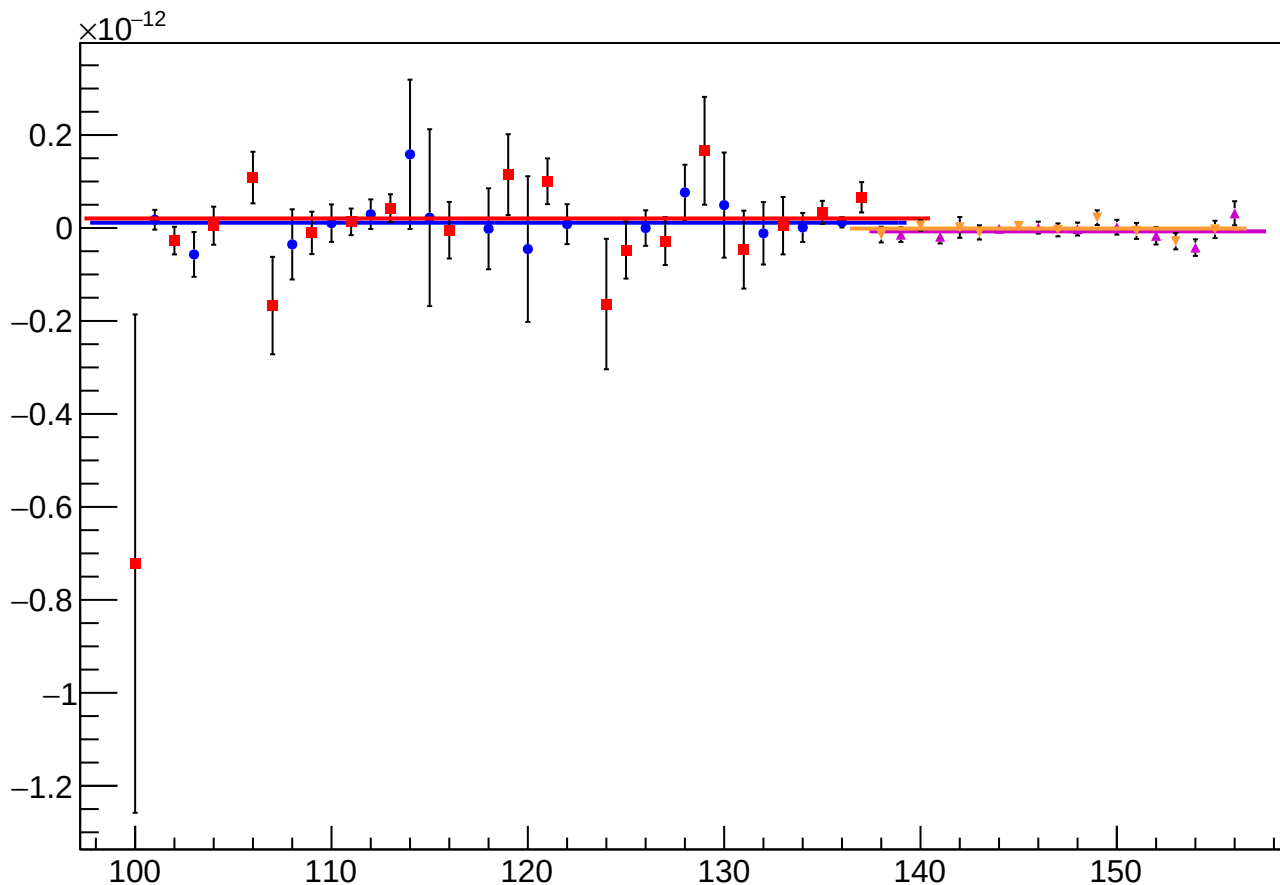
Right: 481.514 $\pm$ 0.092 χ^2 /NDF: 1940434.6/34

In: 389.733 $\pm$ 0.074 χ^2 /NDF: 2336716.4/24

Out: 389.750 $\pm$ 0.074 χ^2 /NDF: 2588405.1/28

All: 389.742 $\pm$ 0.052 χ^2 /NDF: 4925121.5/53

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 : 6.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.3/8

Left: -0.000+/-0.000 χ^2/NDF : 15.4/18

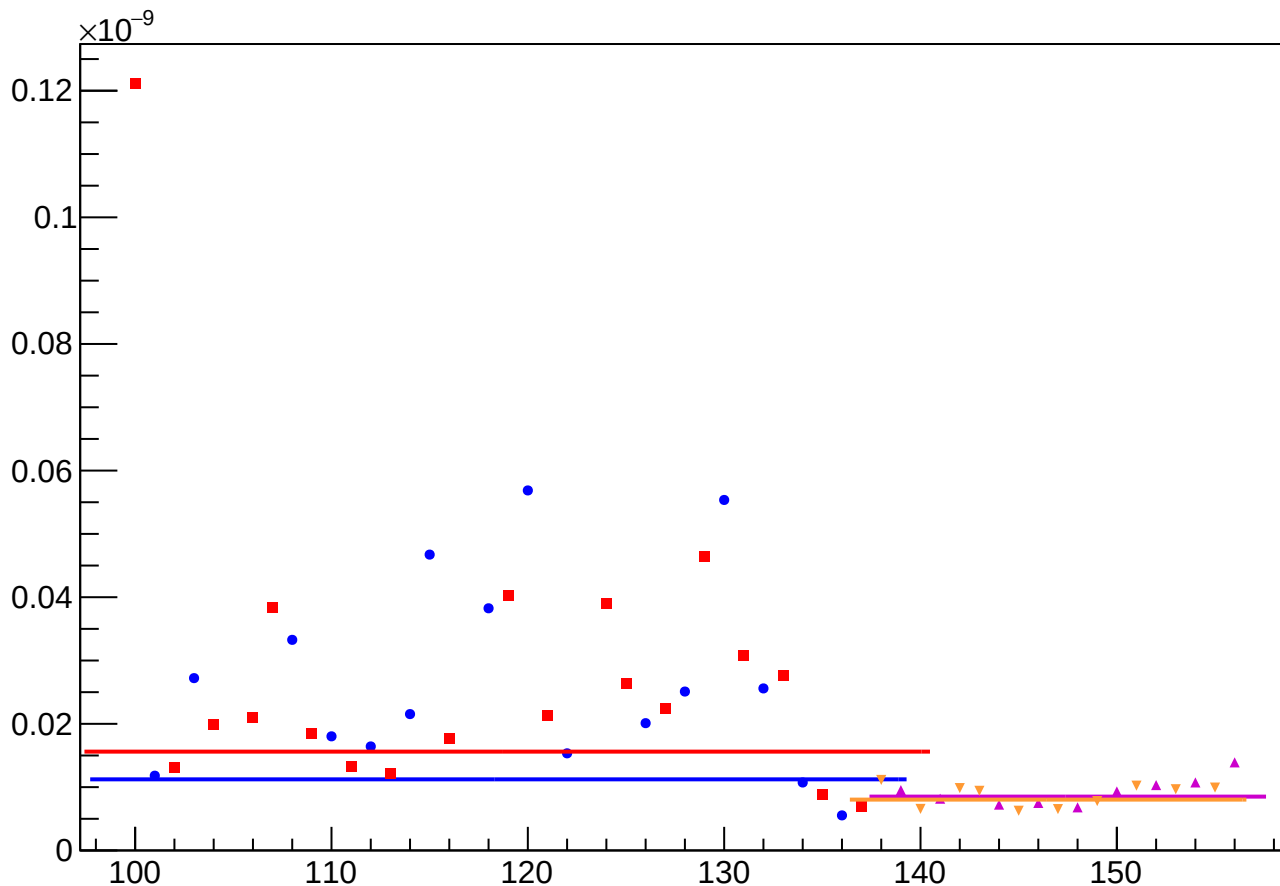
Right: 0.000+/-0.000 χ^2/NDF : 29.7/34

In: -0.000+/-0.000 χ^2/NDF : 17.6/24

Out: 0.000+/-0.000 χ^2/NDF : 33.8/28

All: 0.000+/-0.000 χ^2/NDF : 51.9/53

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 : 290859.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1184320.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 222094.6/8

Left: 0.000+/-0.000 χ^2/NDF : 522653.8/18

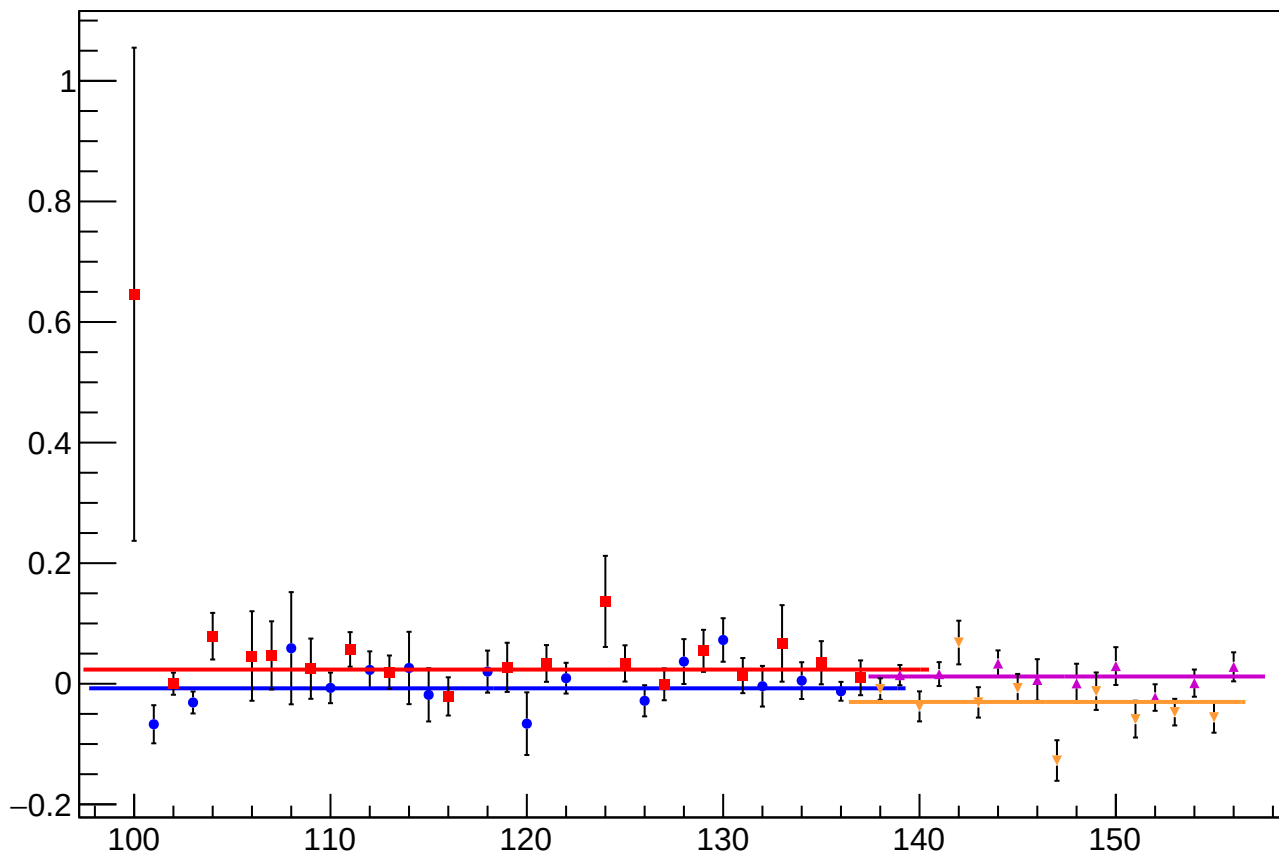
Right: 0.000+/-0.000 χ^2/NDF : 3514192.9/34

In: 0.000+/-0.000 χ^2/NDF : 2492729.1/24

Out: 0.000+/-0.000 χ^2/NDF : 2382781.9/28

All: 0.000+/-0.000 χ^2/NDF : 4875610.8/53

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: -0.030 ± 0.008 $\chi^2/\text{NDF}: 21.0/9$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.012 ± 0.008 $\chi^2/\text{NDF}: 4.7/8$

Left: -0.008 ± 0.006 $\chi^2/\text{NDF}: 40.1/18$

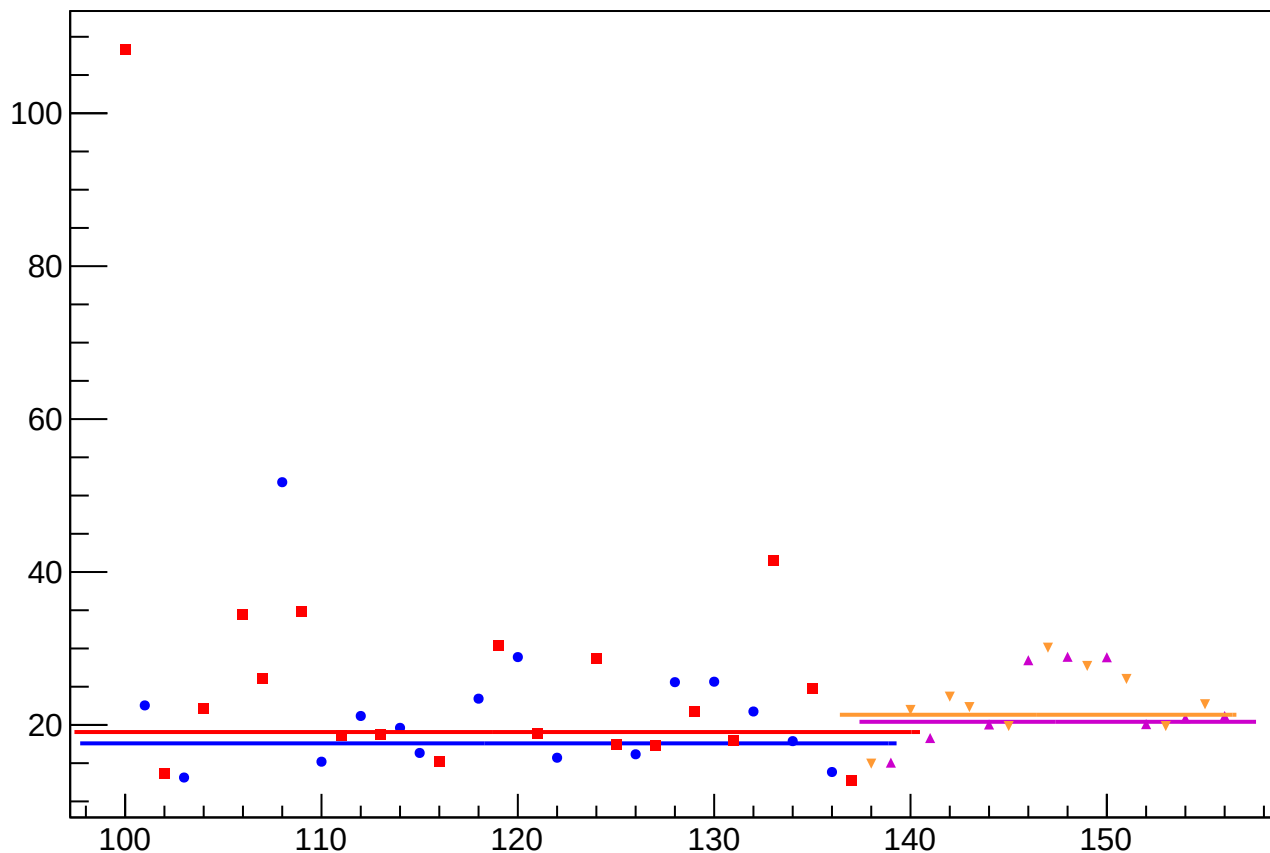
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: 0.002 ± 0.005 $\chi^2/\text{NDF}: 24.8/24$

Out: -0.002 ± 0.006 $\chi^2/\text{NDF}: 58.9/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 84.0/53$

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: 21.332+/-0.006 χ^2/NDF : 560741.3/9

Right Out: 19.072+/-0.005 χ^2/NDF : 1247983.1/18

Left In: 20.411+/-0.005 χ^2/NDF : 620232.9/8

Left: 20.854+/-0.004 χ^2/NDF : 1194669.7/18

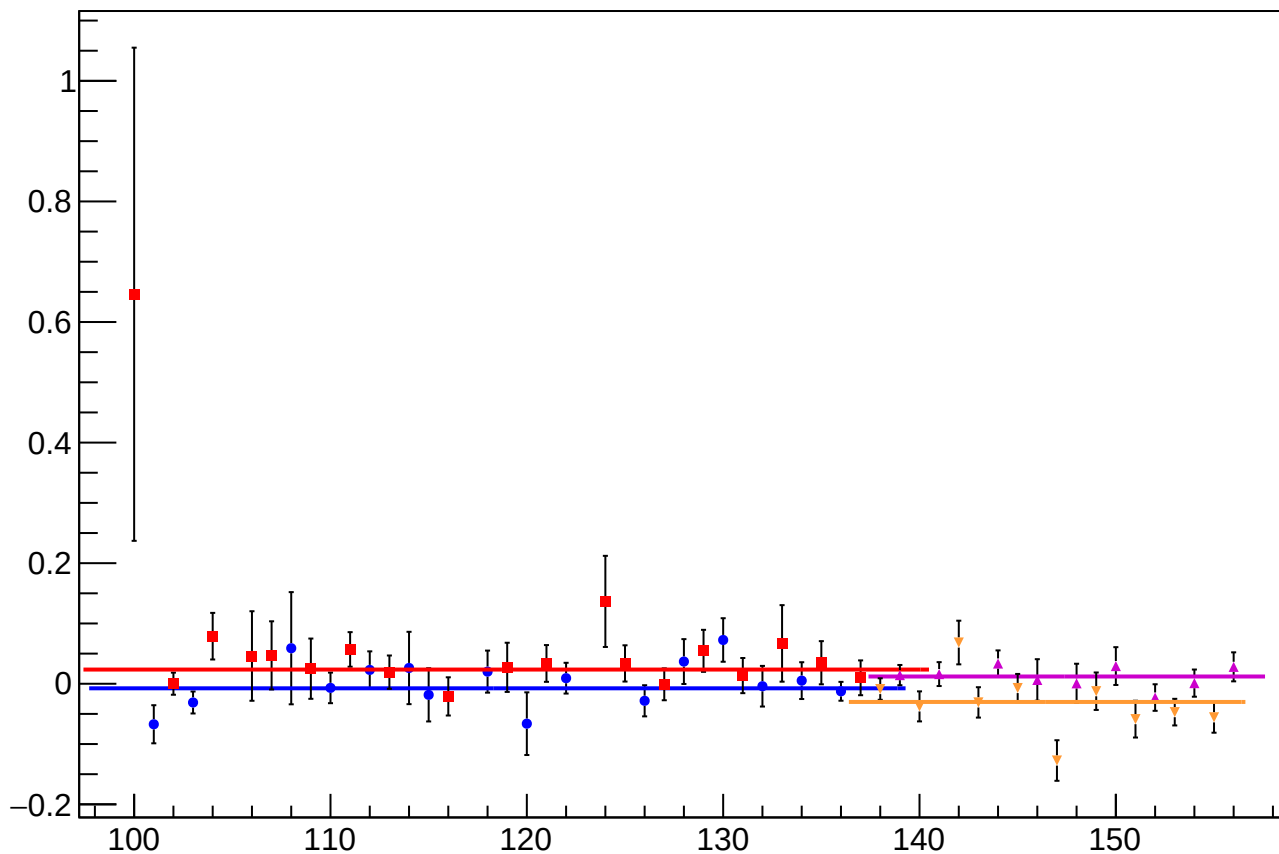
Right: 18.278+/-0.004 χ^2/NDF : 2280449.7/34

In: 18.902+/-0.004 χ^2/NDF : 1756066.3/24

Out: 20.161+/-0.004 χ^2/NDF : 1890852.7/28

All: 19.496+/-0.003 χ^2/NDF : 3700810.1/53

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: -0.030 ± 0.008 $\chi^2/\text{NDF}: 21.0/9$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.012 ± 0.008 $\chi^2/\text{NDF}: 4.7/8$

Left: -0.008 ± 0.006 $\chi^2/\text{NDF}: 40.1/18$

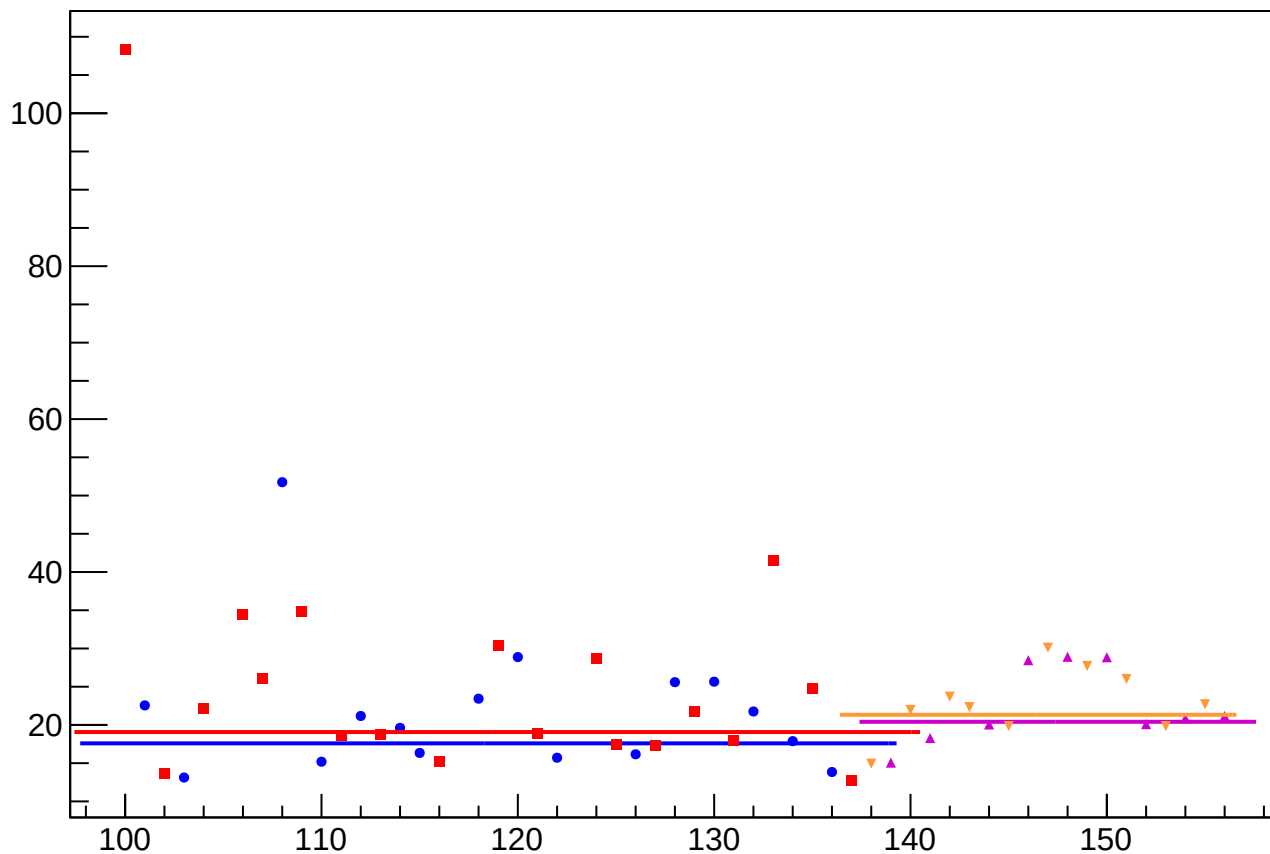
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: 0.002 ± 0.005 $\chi^2/\text{NDF}: 24.8/24$

Out: -0.002 ± 0.006 $\chi^2/\text{NDF}: 58.9/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 84.0/53$

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: 21.332+/-0.006 χ^2/NDF : 560741.3/9

Right Out: 19.072+/-0.005 χ^2/NDF : 1247983.1/18

Left In: 20.411+/-0.005 χ^2/NDF : 620232.9/8

Left: 20.854+/-0.004 χ^2/NDF : 1194669.7/18

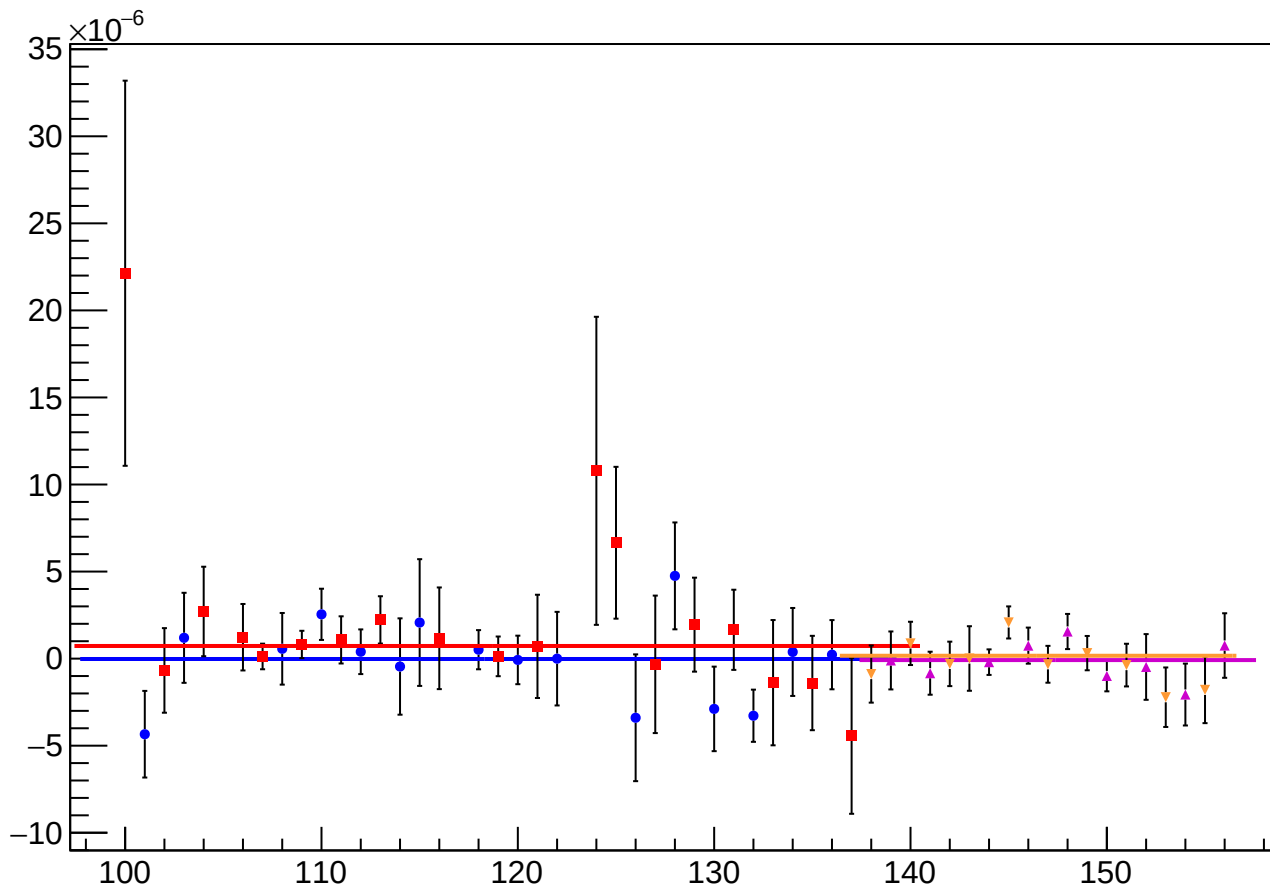
Right: 18.278+/-0.004 χ^2/NDF : 2280449.7/34

In: 18.902+/-0.004 χ^2/NDF : 1756066.3/24

Out: 20.161+/-0.004 χ^2/NDF : 1890852.7/28

All: 19.496+/-0.003 χ^2/NDF : 3700810.1/53

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 : 8.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 12.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.2/8

Left: 0.000+/-0.000 χ^2/NDF : 15.0/18

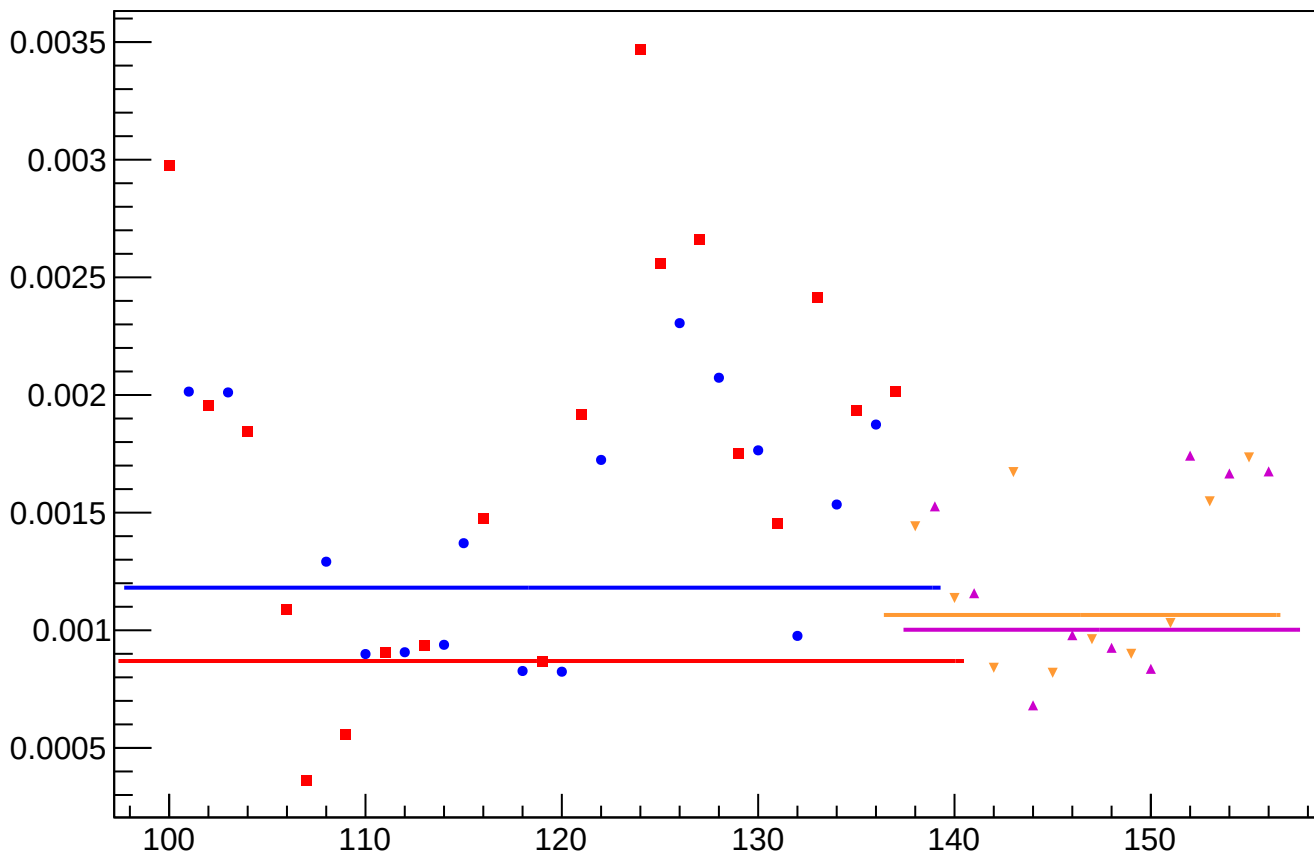
Right: 0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 22.7/24

Out: 0.000+/-0.000 χ^2/NDF : 22.5/28

All: 0.000+/-0.000 χ^2/NDF : 46.9/53

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 : 1012815.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 4435351.6/18

Left In: 0.001+/-0.000 χ^2/NDF : 1547044.8/8

Left: 0.001+/-0.000 χ^2/NDF : 2585973.0/18

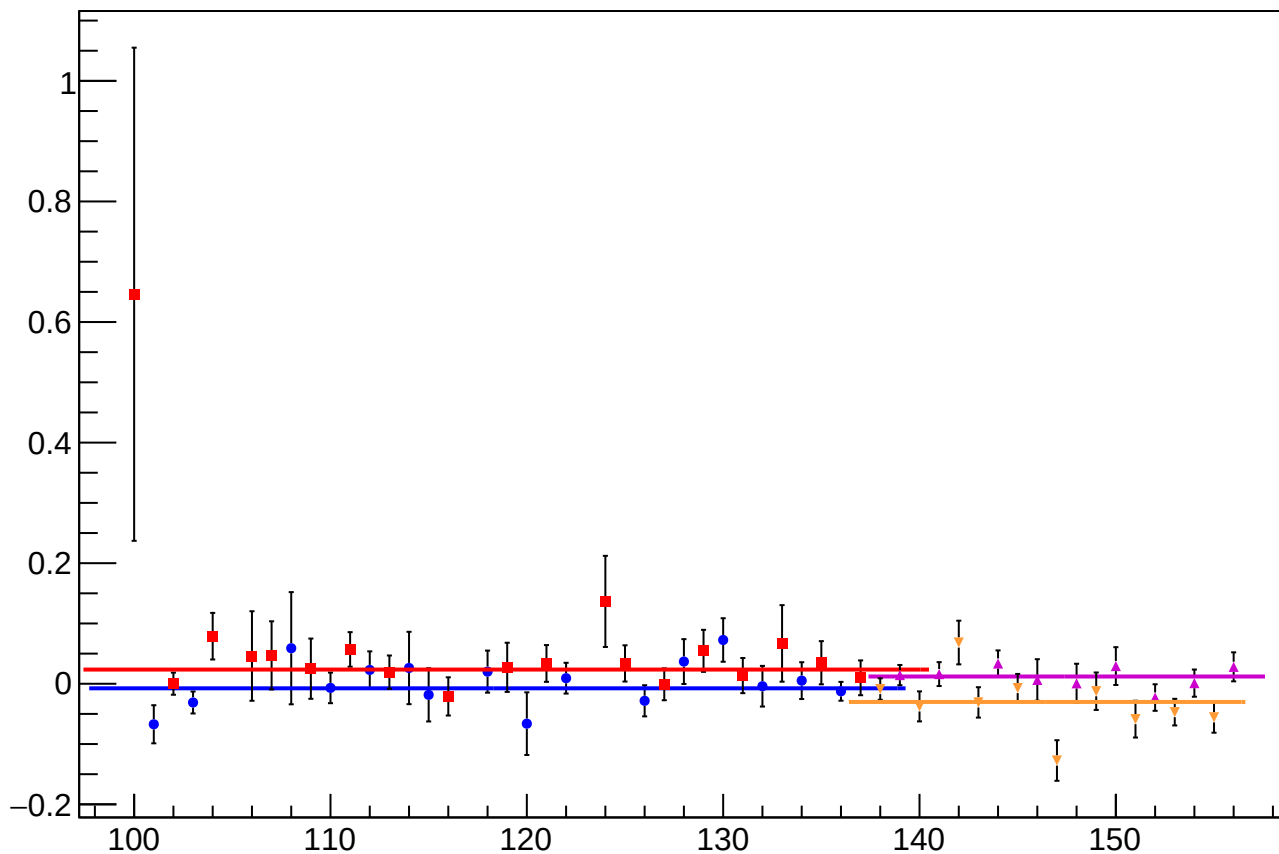
Right: 0.001+/-0.000 χ^2/NDF : 6790405.1/34

In: 0.001+/-0.000 χ^2/NDF : 3549442.6/24

Out: 0.001+/-0.000 χ^2/NDF : 5700222.2/28

All: 0.001+/-0.000 χ^2/NDF : 9395915.1/53

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: -0.030 ± 0.008 $\chi^2/\text{NDF}: 21.0/9$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.012 ± 0.008 $\chi^2/\text{NDF}: 4.7/8$

Left: -0.008 ± 0.006 $\chi^2/\text{NDF}: 40.1/18$

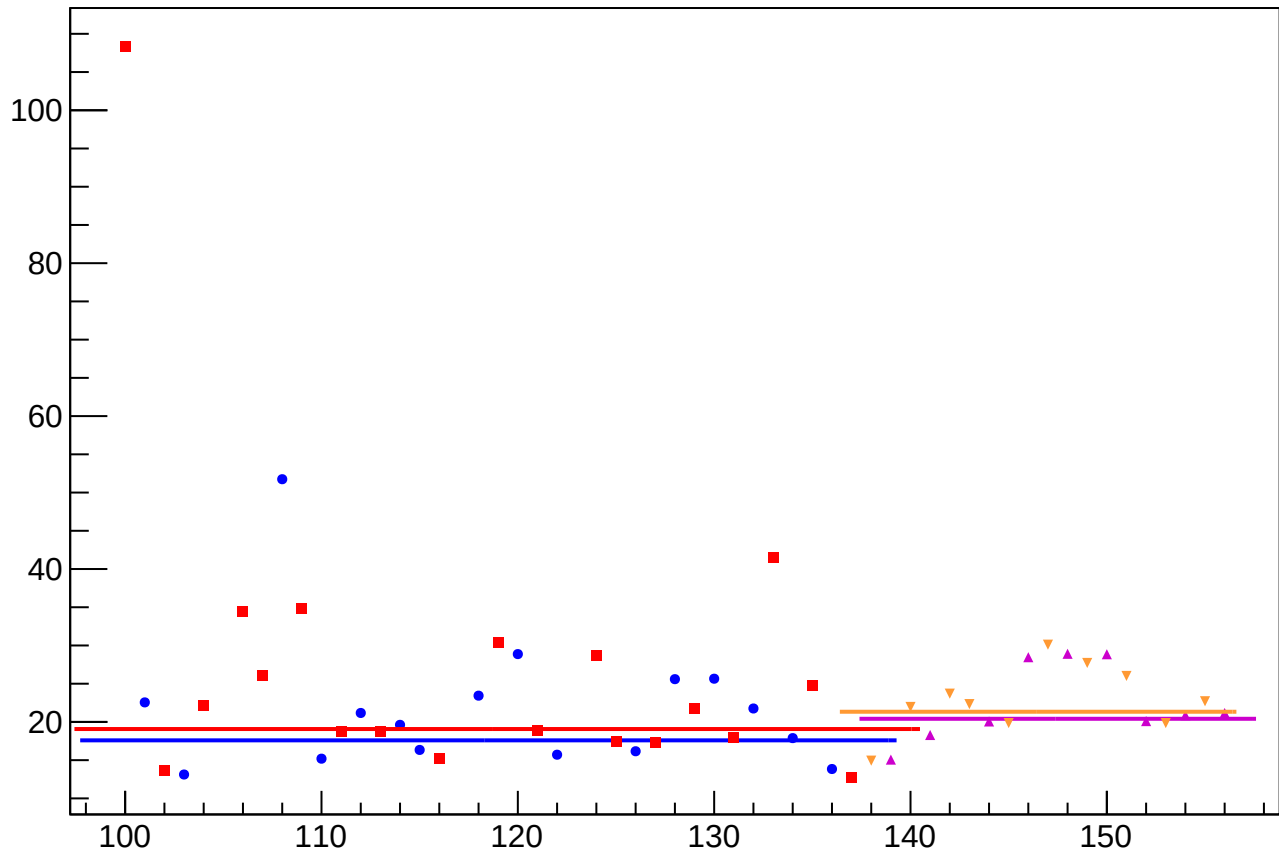
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: 0.002 ± 0.005 $\chi^2/\text{NDF}: 24.8/24$

Out: -0.002 ± 0.006 $\chi^2/\text{NDF}: 58.9/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 84.0/53$

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993288.6/15

Left Out: 21.333+/-0.006 χ^2/NDF : 560728.0/9

Right Out: 19.072+/-0.005 χ^2/NDF : 1247904.7/18

Left In: 20.411+/-0.005 χ^2/NDF : 620192.9/8

Left: 20.854+/-0.004 χ^2/NDF : 1194615.1/18

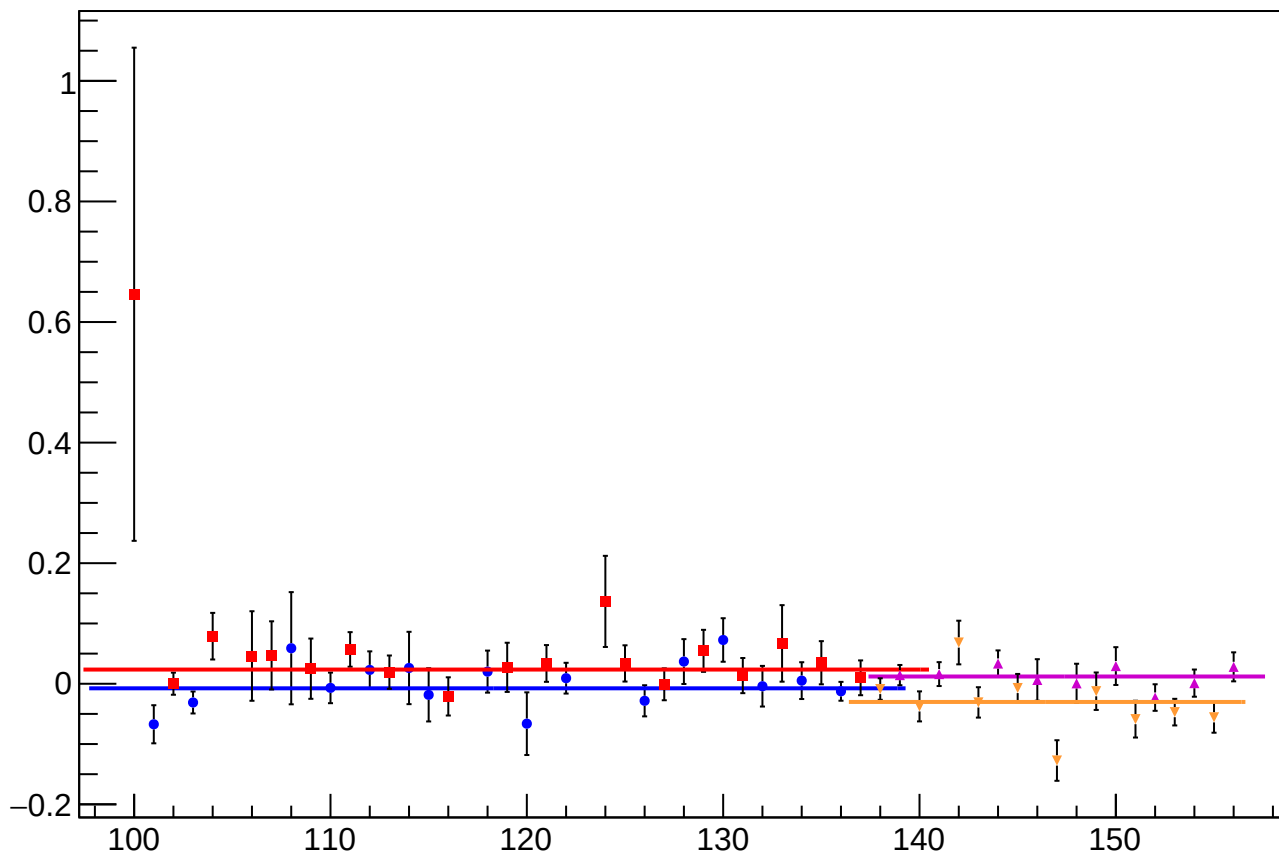
Right: 18.278+/-0.004 χ^2/NDF : 2280425.3/34

In: 18.903+/-0.004 χ^2/NDF : 1756088.2/24

Out: 20.162+/-0.004 χ^2/NDF : 1890752.9/28

All: 19.496+/-0.003 χ^2/NDF : 3700744.2/53

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 χ^2/NDF : 16.7/15

Left Out: -0.030 ± 0.008 χ^2/NDF : 21.0/9

Right Out: 0.024 ± 0.008 χ^2/NDF : 14.6/18

Left In: 0.012 ± 0.008 χ^2/NDF : 4.7/8

Left: -0.008 ± 0.006 χ^2/NDF : 40.1/18

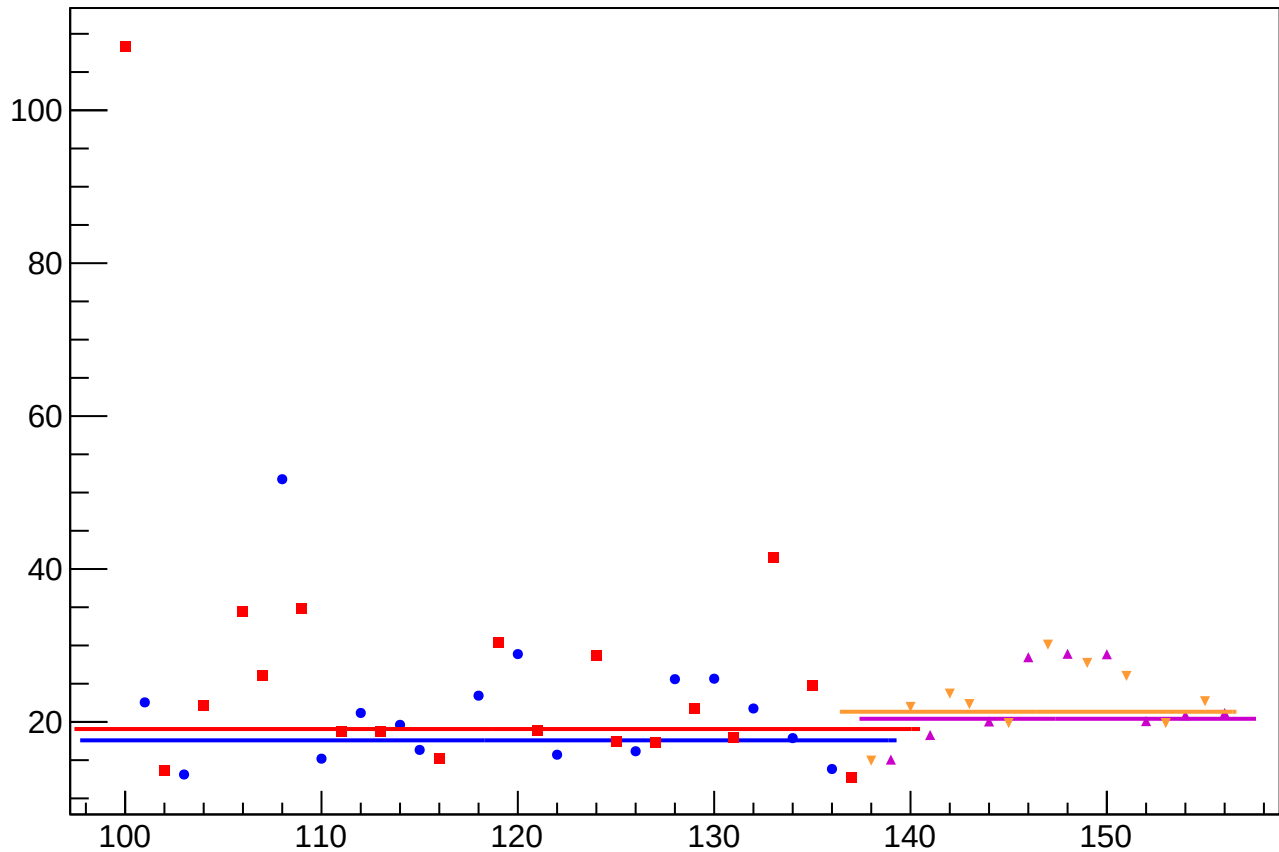
Right: 0.007 ± 0.005 χ^2/NDF : 40.0/34

In: 0.002 ± 0.005 χ^2/NDF : 24.8/24

Out: -0.002 ± 0.006 χ^2/NDF : 58.9/28

All: -0.000 ± 0.004 χ^2/NDF : 84.0/53

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: 21.333 ± 0.006 χ^2/NDF : 560728.0/9

Right Out: 19.072 ± 0.005 χ^2/NDF : 1247904.7/18

Left In: 20.411 ± 0.005 χ^2/NDF : 620192.9/8

Left: 20.854 ± 0.004 χ^2/NDF : 1194615.1/18

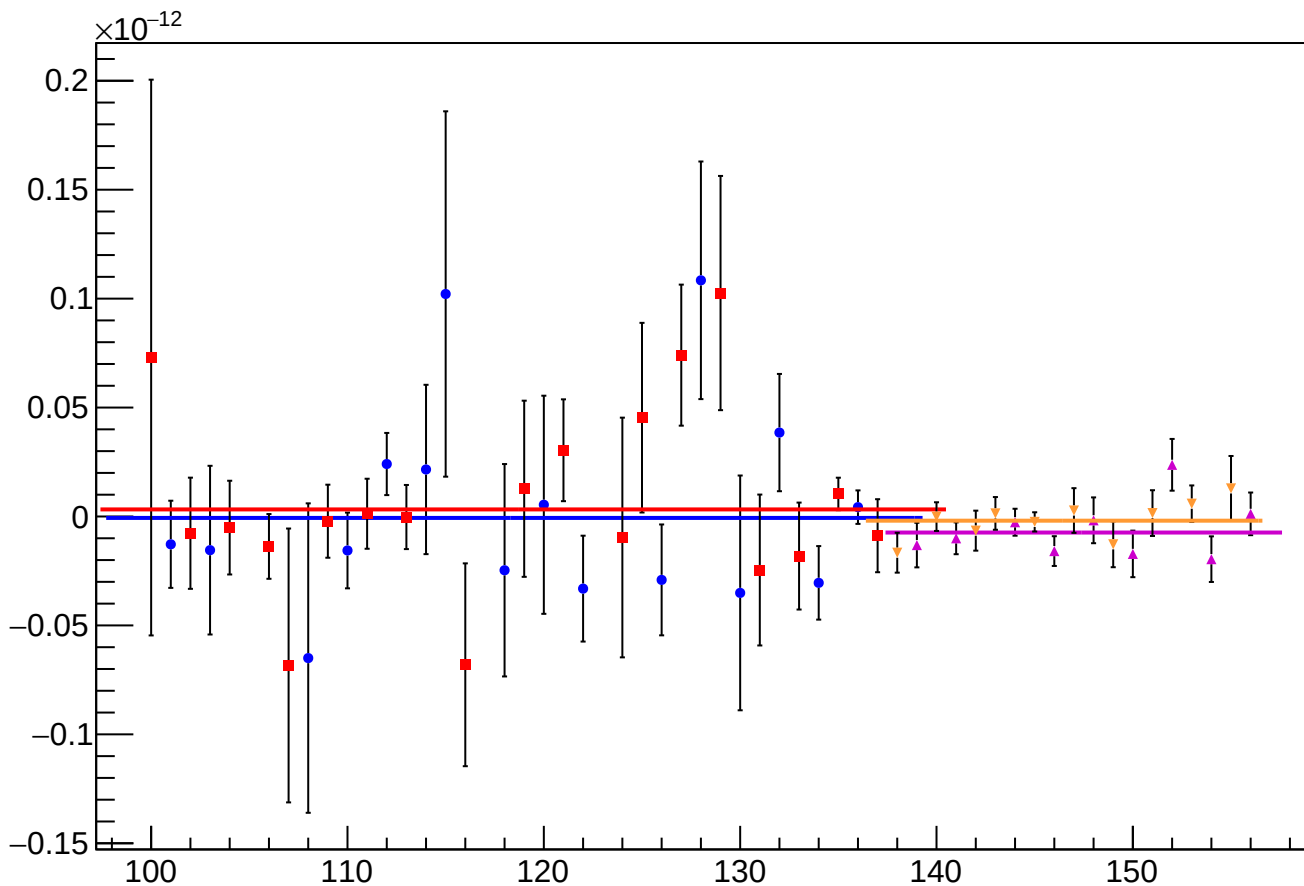
Right: 18.278 ± 0.004 χ^2/NDF : 2280425.3/34

In: 18.903 ± 0.004 χ^2/NDF : 1756088.2/24

Out: 20.162 ± 0.004 χ^2/NDF : 1890752.9/28

All: 19.496 ± 0.003 χ^2/NDF : 3700744.2/53

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 : 6.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 19.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 12.7/8

Left: -0.000+/-0.000 χ^2/NDF : 21.1/18

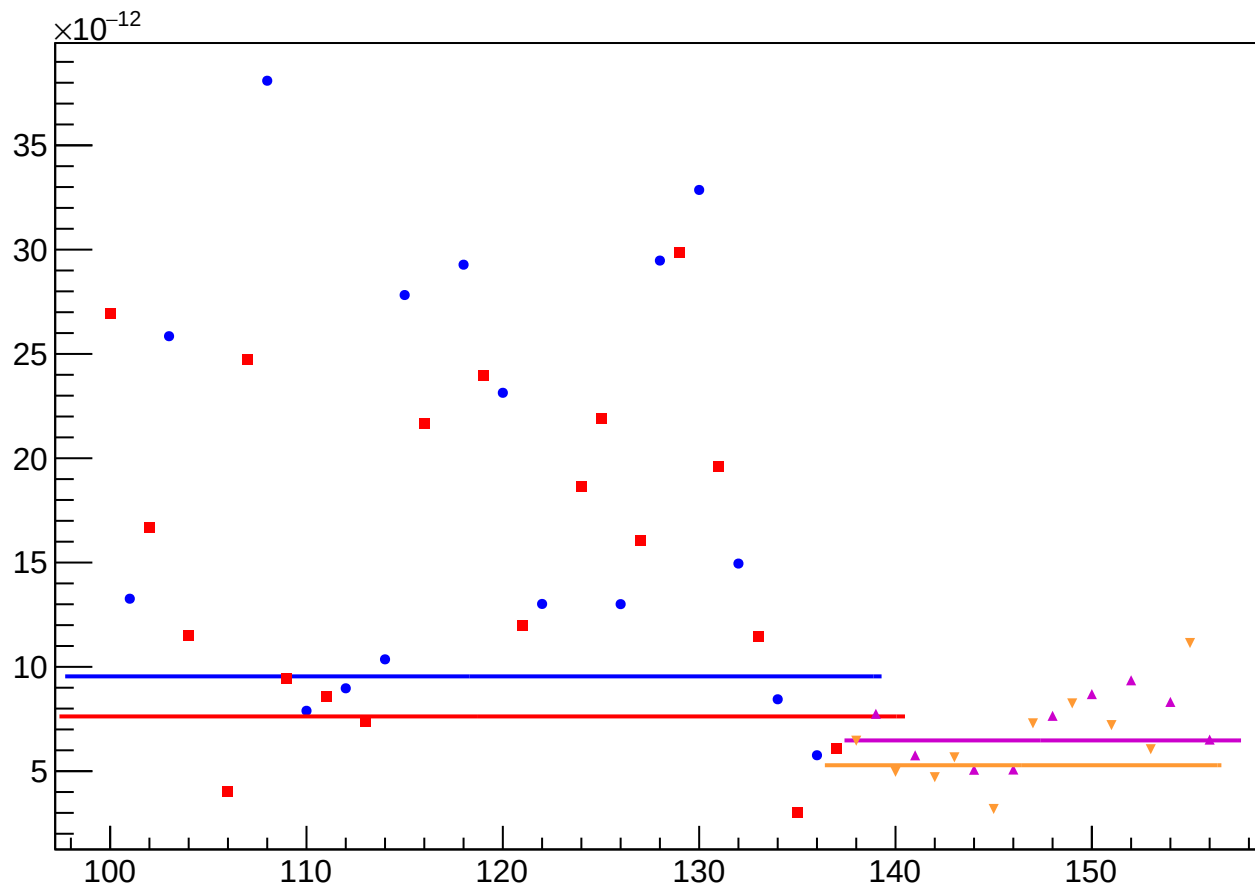
Right: 0.000+/-0.000 χ^2/NDF : 39.8/34

In: -0.000+/-0.000 χ^2/NDF : 34.3/24

Out: -0.000+/-0.000 χ^2/NDF : 26.6/28

All: -0.000+/-0.000 χ^2/NDF : 63.1/53

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 :1130476.5/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3086000.4/18

Left In: 0.000+/-0.000 χ^2/NDF :528465.4/8

Left: 0.000+/-0.000 χ^2/NDF : 1854523.1/18

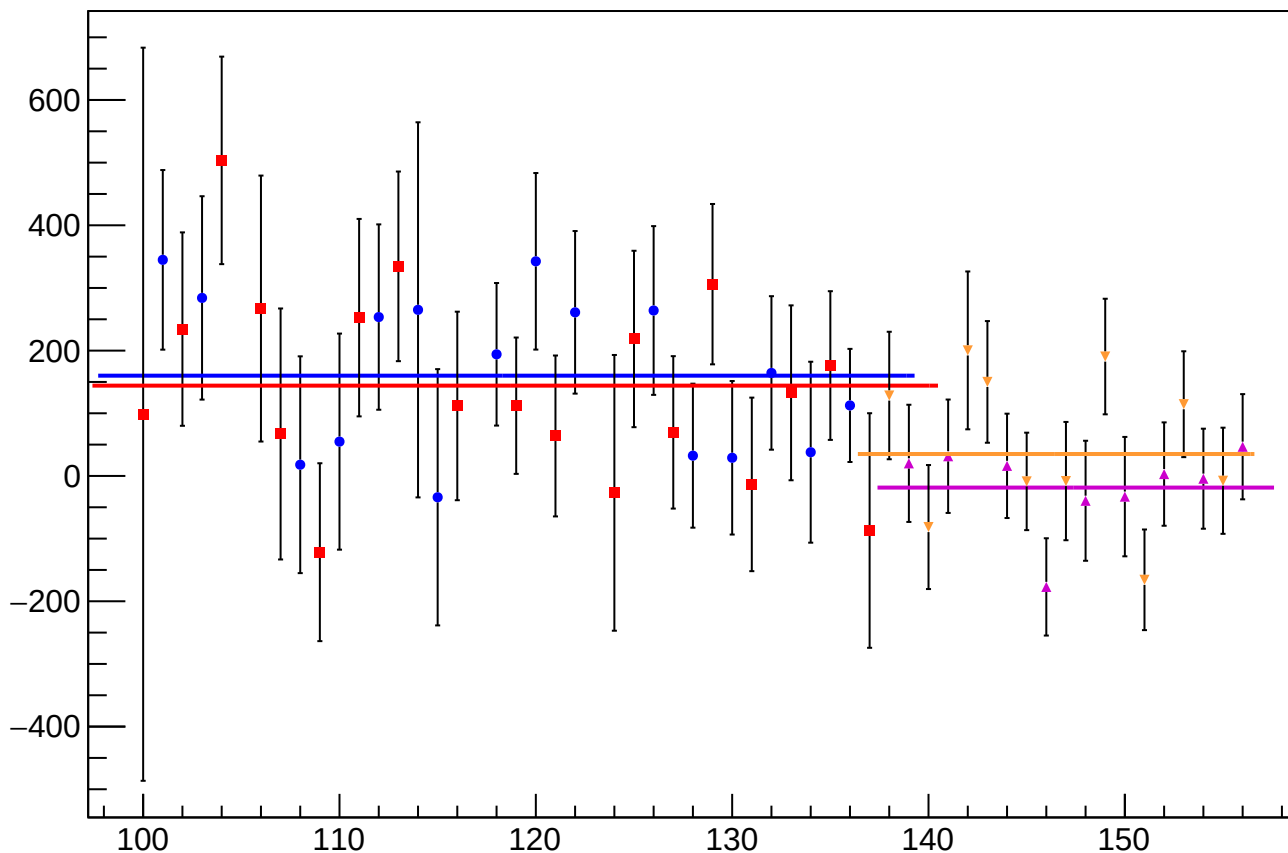
Right: 0.000+/-0.000 χ^2/NDF : 5879584.6/34

In: 0.000+/-0.000 χ^2/NDF :3715807.0/24

Out: 0.000+/-0.000 χ^2/NDF :4633026.6/28

All: 0.000+/-0.000 χ^2/NDF : 8701037.8/53

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: 35.006 $\pm$ 28.895 χ^2 /NDF:16.1/9

Right Out: 144.117 $\pm$ 34.213 χ^2 /NDF: 17.4/18

Left In: -18.581 $\pm$ 28.728 χ^2 /NDF:5.6/8

Left: 8.057 $\pm$ 20.373 χ^2 /NDF: 23.4/18

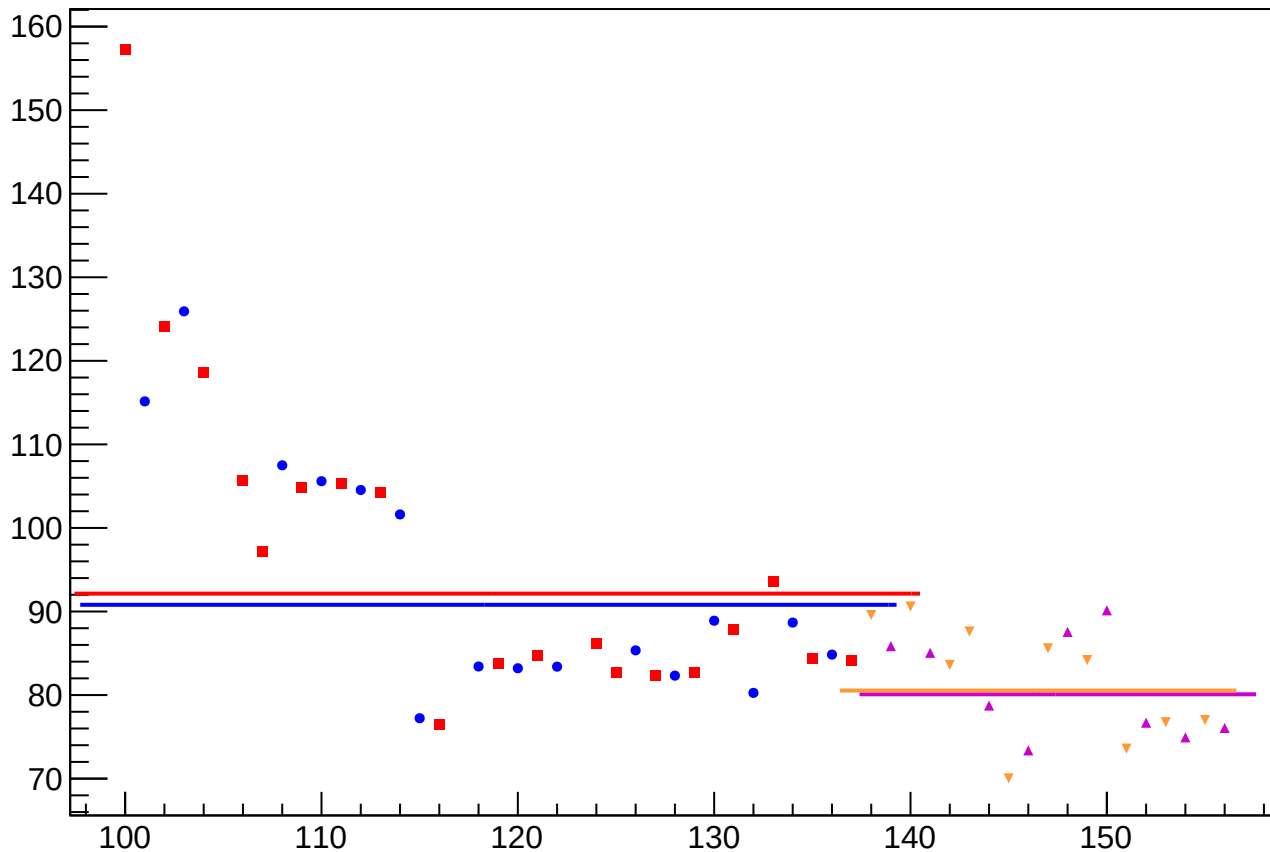
Right: 152.081 $\pm$ 24.177 χ^2 /NDF: 28.6/34

In: 55.384 $\pm$ 21.989 χ^2 /NDF:32.7/24

Out: 80.432 $\pm$ 22.076 χ^2 /NDF:39.5/28

All: 67.859 $\pm$ 15.579 χ^2 /NDF: 72.8/53

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: 80.543 $\pm$ 0.020 χ^2 /NDF: 116116.1/9

Right Out: 92.141 $\pm$ 0.024 χ^2 /NDF: 302032.4/18

Left In: 80.092 $\pm$ 0.020 χ^2 /NDF: 79871.4/8

Left: 80.316 $\pm$ 0.014 χ^2 /NDF: 196232.1/18

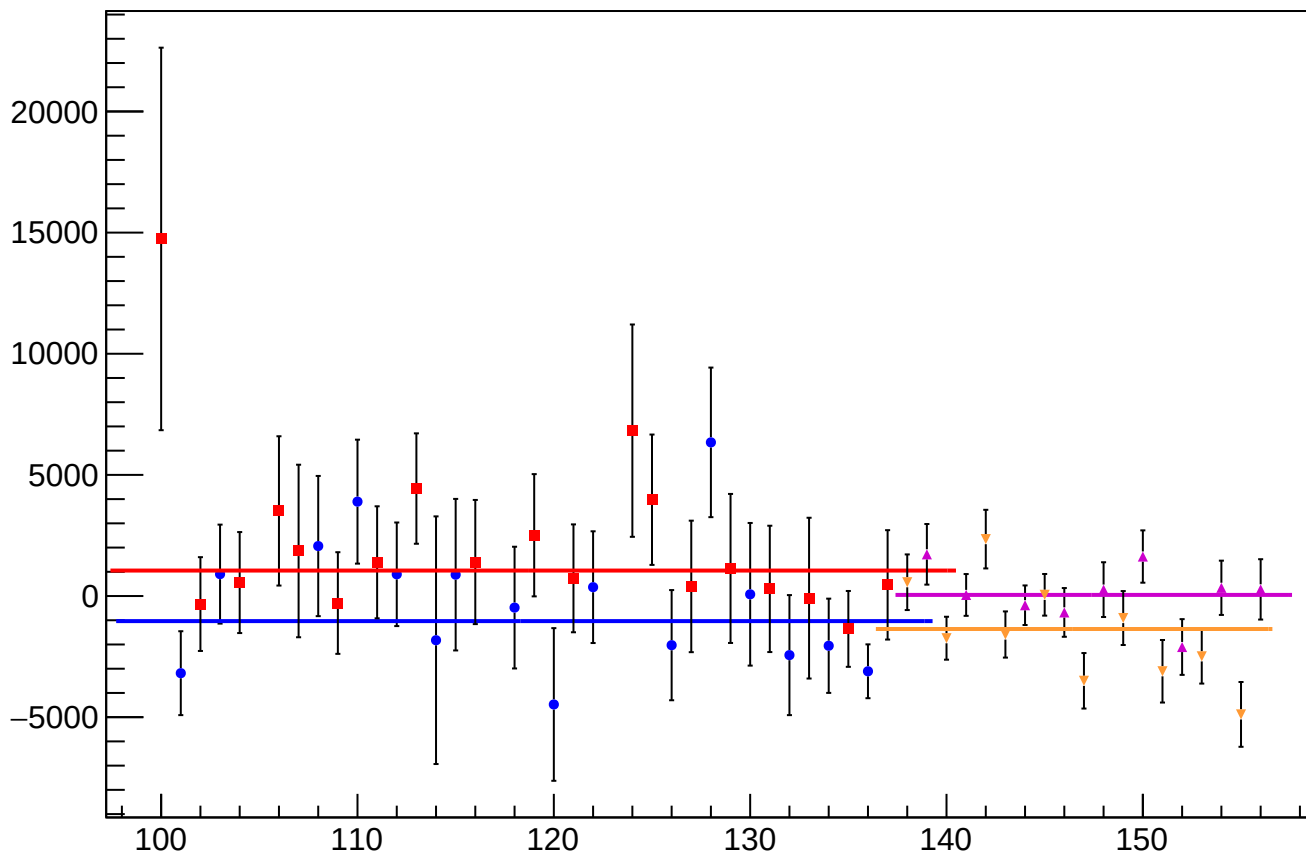
Right: 91.471 $\pm$ 0.017 χ^2 /NDF: 576322.1/34

In: 84.527 $\pm$ 0.016 χ^2 /NDF: 467739.0/24

Out: 85.371 $\pm$ 0.016 χ^2 /NDF: 552306.3/28

All: 84.948 $\pm$ 0.011 χ^2 /NDF: 1021513.7/53

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: -1360.789 $\pm$ 339.220 χ^2/NDF : 28.6/9

Right Out: 1051.517 $\pm$ 568.935 χ^2/NDF : 12.9/18

Left In: 46.316 $\pm$ 346.917 χ^2/NDF : 8.4/8

Left: -673.019 $\pm$ 242.540 χ^2/NDF : 45.4/18

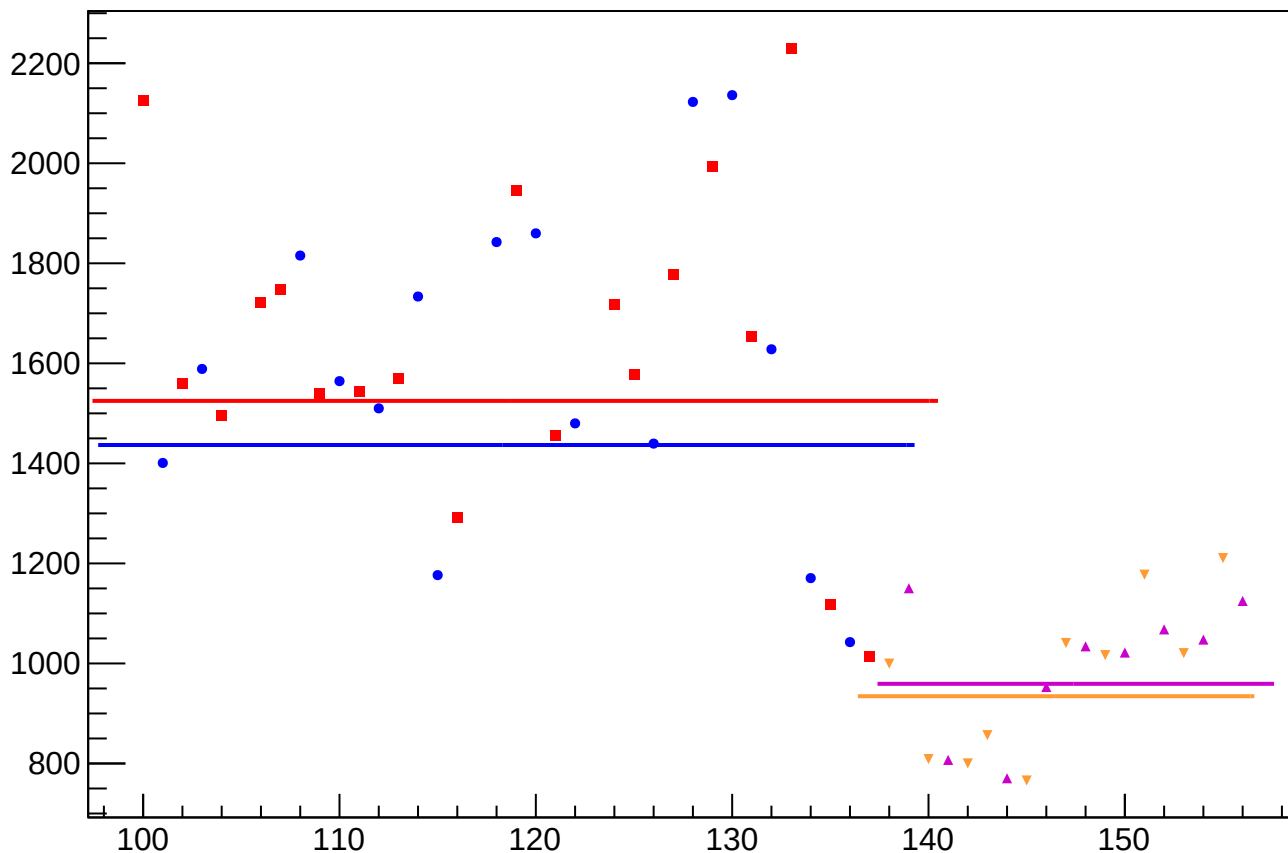
Right: -26.665 $\pm$ 395.510 χ^2/NDF : 40.1/34

In: -261.290 $\pm$ 293.454 χ^2/NDF : 31.4/24

Out: -728.128 $\pm$ 291.361 χ^2/NDF : 54.7/28

All: -496.380 $\pm$ 206.760 χ^2/NDF : 87.4/53

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: 934.443+/-0.240 χ^2/NDF : 357626.3/9

Right Out: 1524.955+/-0.402 χ^2/NDF : 504563.9/18

Left In: 959.290+/-0.245 χ^2/NDF : 297155.9/8

Left: 946.588+/-0.172 χ^2/NDF : 660027.4/18

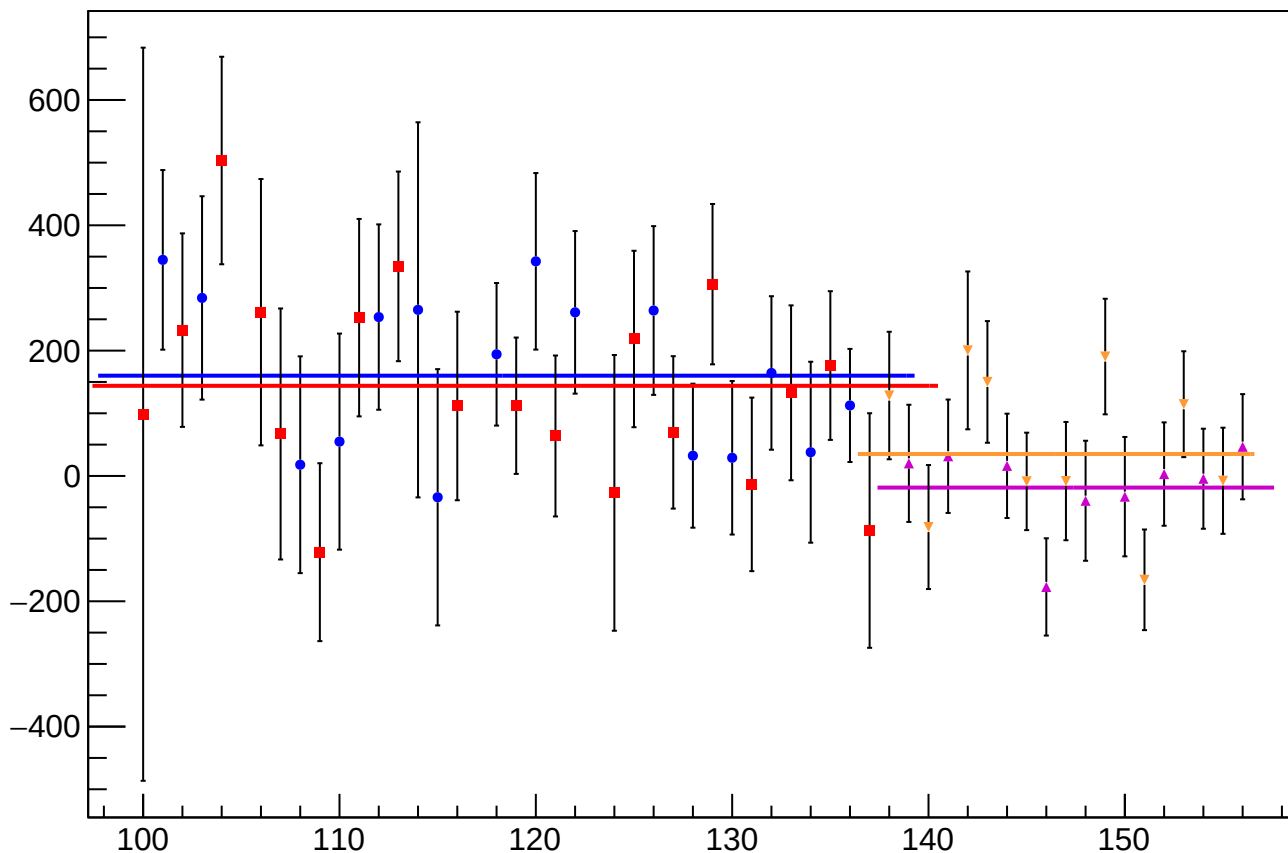
Right: 1479.369+/-0.280 χ^2/NDF : 1205085.6/34

In: 1095.107+/-0.208 χ^2/NDF : 2050417.1/24

Out: 1089.313+/-0.206 χ^2/NDF : 2451705.9/28

All: 1092.189+/-0.146 χ^2/NDF : 4502515.6/53

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: 35.009 $\pm$ 28.895 χ^2 /NDF:16.1/9

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: -18.581 $\pm$ 28.728 χ^2 /NDF:5.6/8

Left: 8.058 $\pm$ 20.373 χ^2 /NDF: 23.4/18

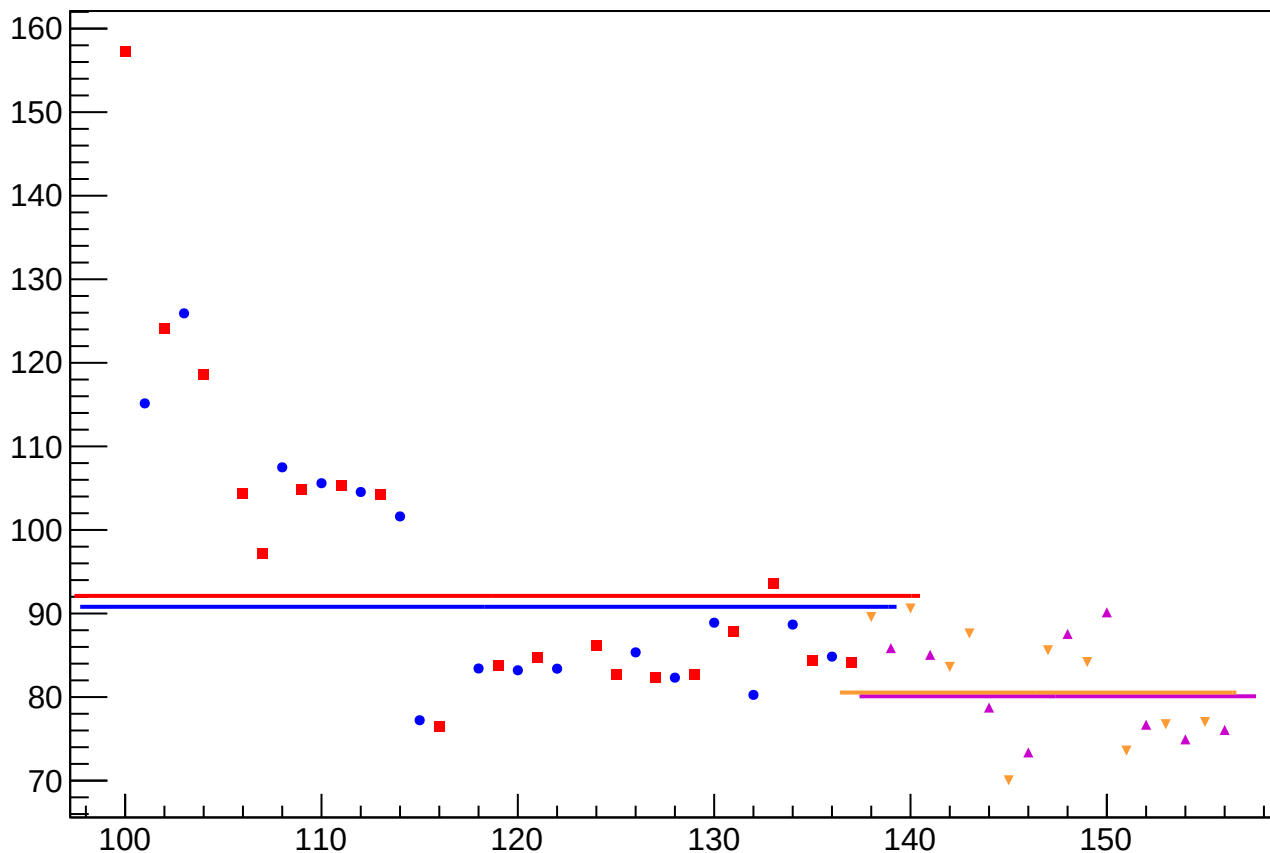
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 55.382 $\pm$ 21.989 χ^2 /NDF:32.7/24

Out: 80.324 $\pm$ 22.076 χ^2 /NDF:39.4/28

All: 67.804 $\pm$ 15.579 χ^2 /NDF: 72.7/53

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: 80.543 $\pm$ 0.020 χ^2/NDF : 116116.1/9

Right Out: 92.108 $\pm$ 0.024 χ^2/NDF : 300768.0/18

Left In: 80.092 $\pm$ 0.020 χ^2/NDF : 79871.4/8

Left: 80.316 $\pm$ 0.014 χ^2/NDF : 196232.1/18

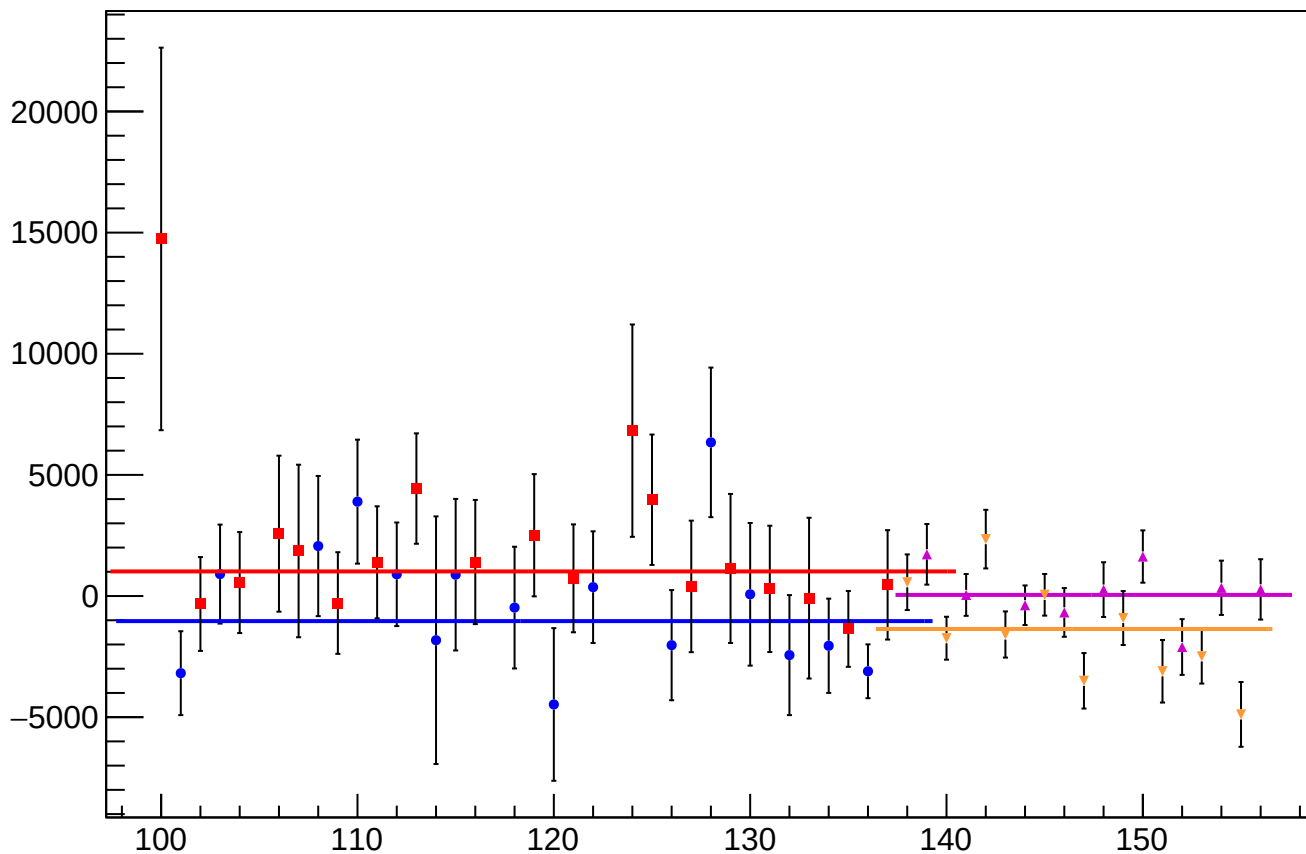
Right: 91.454 $\pm$ 0.017 χ^2/NDF : 574984.5/34

In: 84.527 $\pm$ 0.016 χ^2/NDF : 467741.0/24

Out: 85.357 $\pm$ 0.016 χ^2/NDF : 550268.0/28

All: 84.941 $\pm$ 0.011 χ^2/NDF : 1019428.6/53

asym_sam_24_68_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1035.009 $\pm$ 550.208 χ^2 /NDF: 20.2/15

Left Out: -1360.782 $\pm$ 339.220 χ^2 /NDF:28.6/9

Right Out: 1015.387 $\pm$ 569.773 χ^2 /NDF: 12.5/18

Left In: 46.319 $\pm$ 346.917 χ^2 /NDF:8.4/8

Left: -673.015 $\pm$ 242.540 χ^2 /NDF: 45.4/18

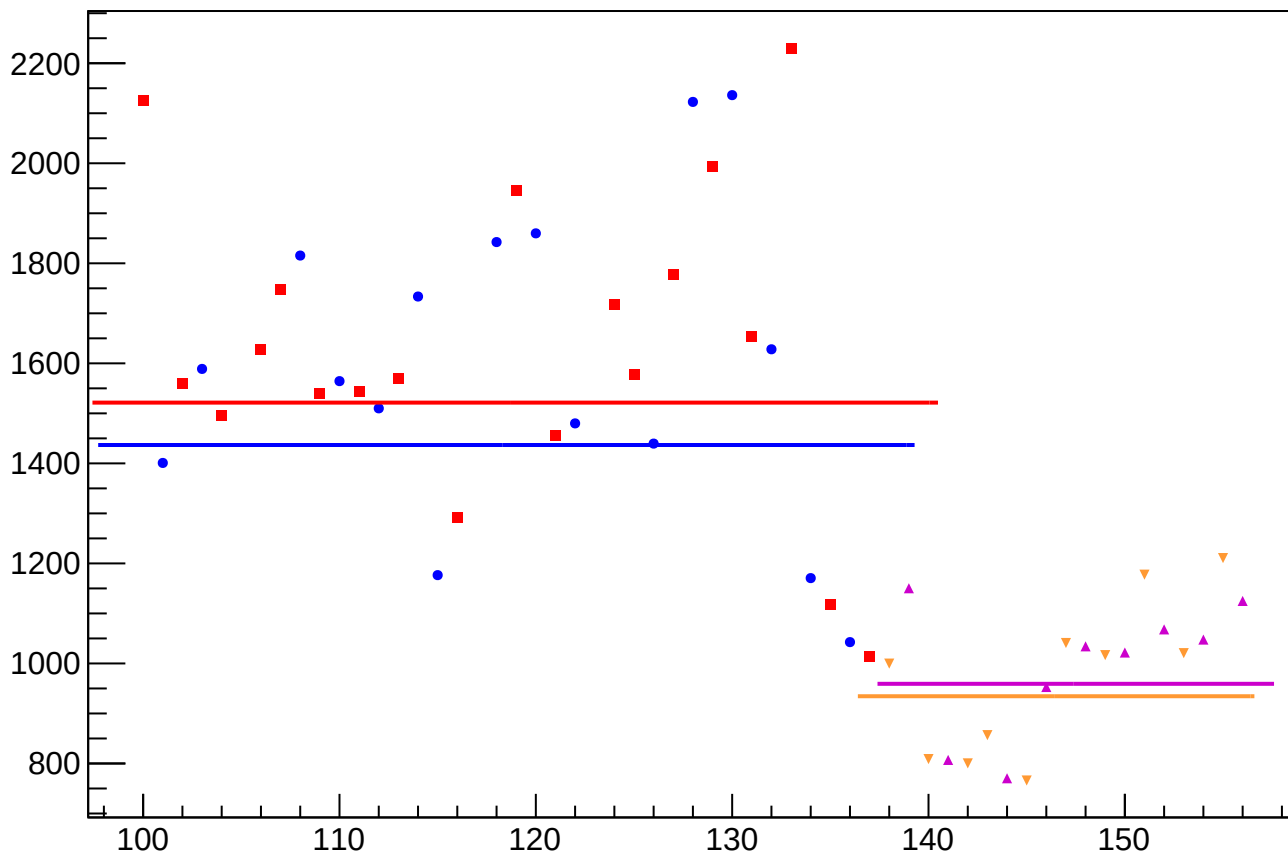
Right: -45.617 $\pm$ 395.792 χ^2 /NDF: 39.4/34

In: -261.280 $\pm$ 293.455 χ^2 /NDF:31.4/24

Out: -738.952 $\pm$ 291.473 χ^2 /NDF:53.9/28

All: -501.734 $\pm$ 206.800 χ^2 /NDF: 86.6/53

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: 934.442 $\pm$ 0.240 χ^2 /NDF: 357627.3/9

Right Out: 1521.496 $\pm$ 0.403 χ^2 /NDF: 498363.4/18

Left In: 959.290 $\pm$ 0.245 χ^2 /NDF: 297156.0/8

Left: 946.588 $\pm$ 0.172 χ^2 /NDF: 660028.6/18

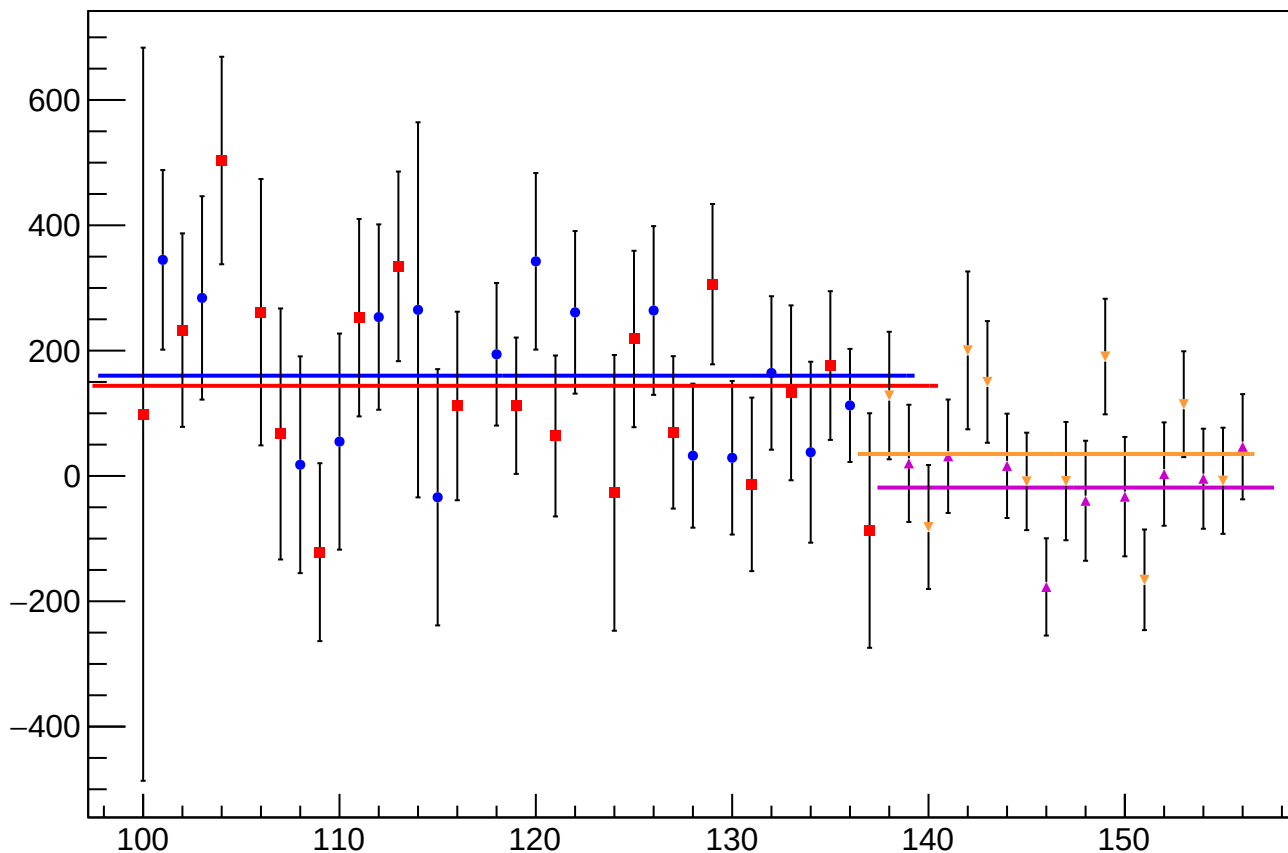
Right: 1477.637 $\pm$ 0.280 χ^2 /NDF: 1196946.2/34

In: 1095.107 $\pm$ 0.208 χ^2 /NDF: 2050436.9/24

Out: 1088.071 $\pm$ 0.206 χ^2 /NDF: 2423531.7/28

All: 1091.565 $\pm$ 0.146 χ^2 /NDF: 4474547.3/53

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: 35.009 $\pm$ 28.895 χ^2 /NDF:16.1/9

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: -18.581 $\pm$ 28.728 χ^2 /NDF:5.6/8

Left: 8.058 $\pm$ 20.373 χ^2 /NDF: 23.4/18

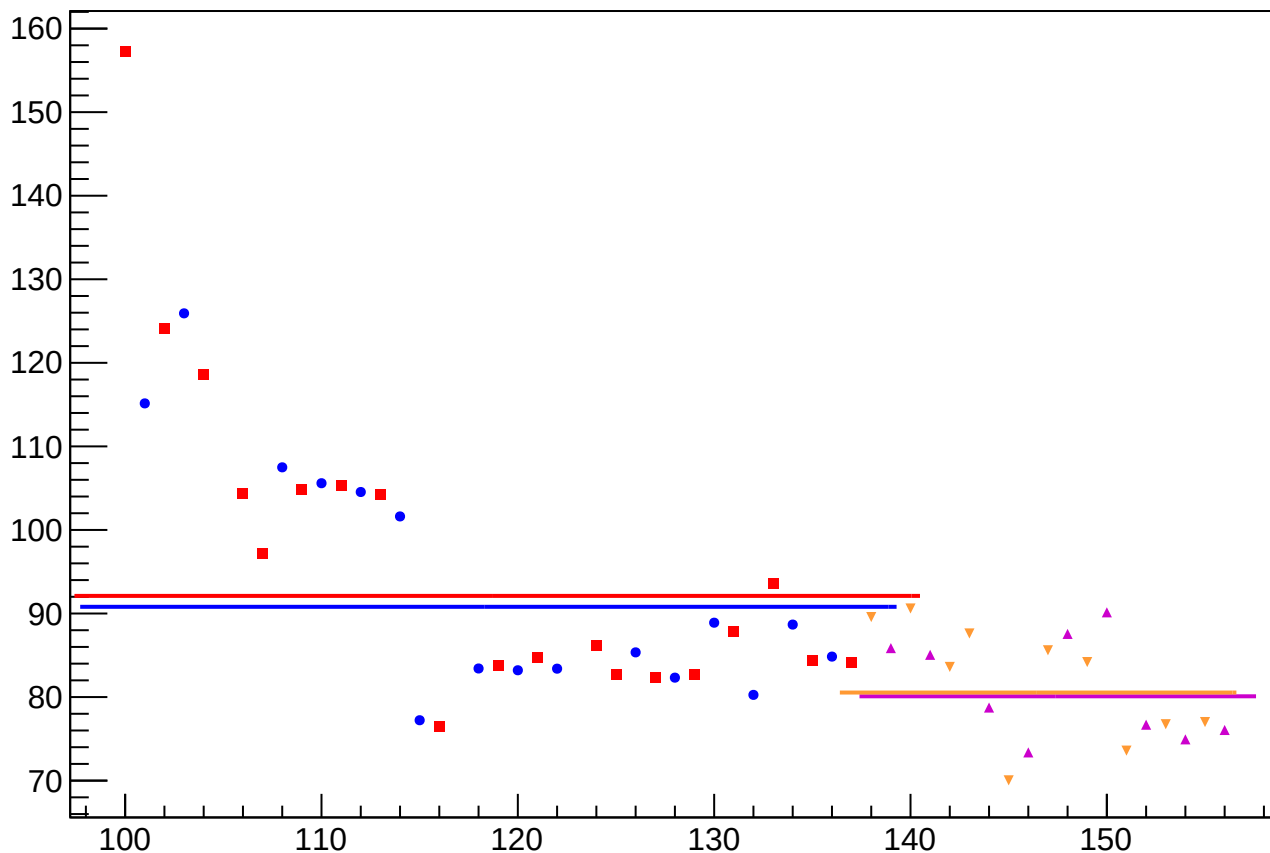
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 55.382 $\pm$ 21.989 χ^2 /NDF:32.7/24

Out: 80.324 $\pm$ 22.076 χ^2 /NDF:39.4/28

All: 67.804 $\pm$ 15.579 χ^2 /NDF: 72.7/53

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: 80.543 $\pm$ 0.020 χ^2 /NDF: 116116.1/9

Right Out: 92.108 $\pm$ 0.024 χ^2 /NDF: 300768.0/18

Left In: 80.092 $\pm$ 0.020 χ^2 /NDF: 79871.4/8

Left: 80.316 $\pm$ 0.014 χ^2 /NDF: 196232.1/18

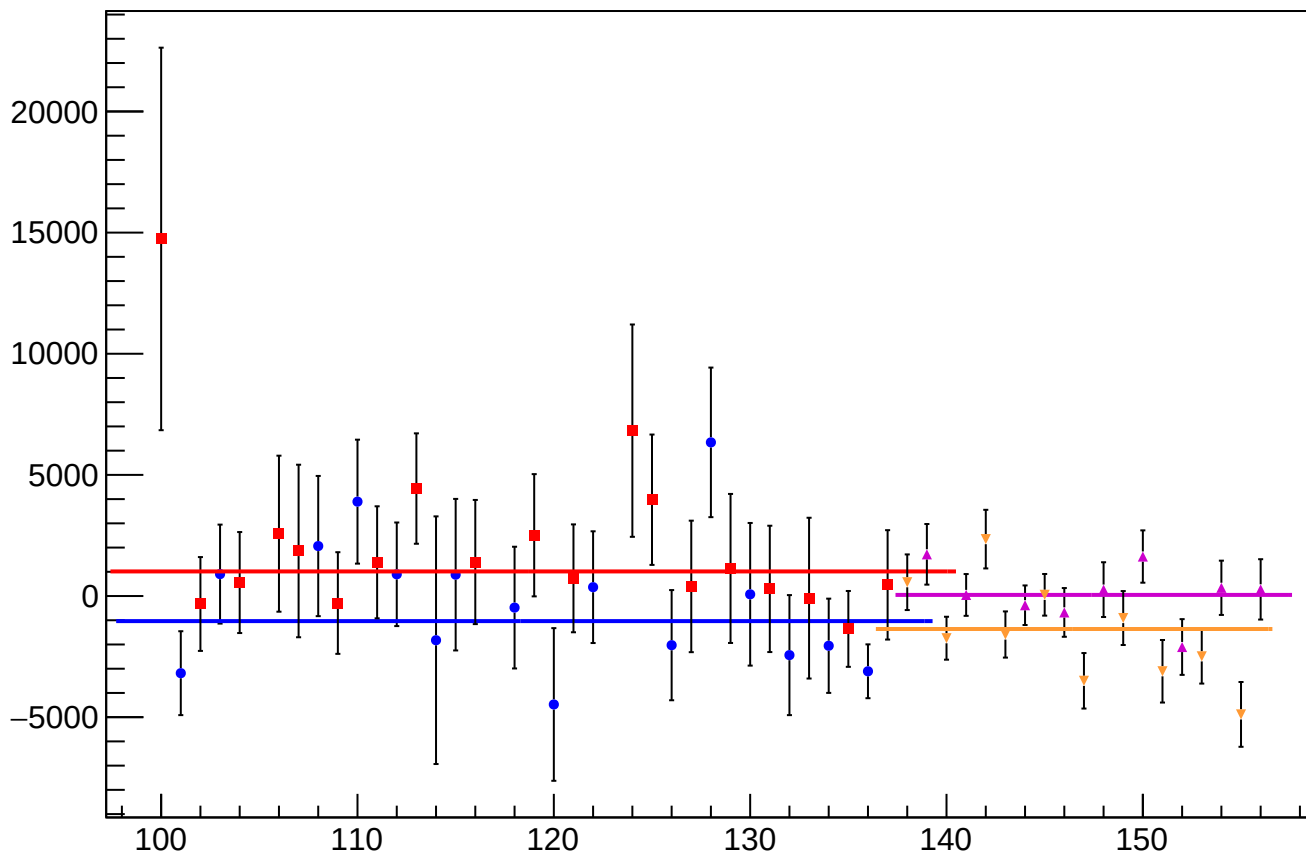
Right: 91.454 $\pm$ 0.017 χ^2 /NDF: 574984.5/34

In: 84.527 $\pm$ 0.016 χ^2 /NDF: 467741.0/24

Out: 85.357 $\pm$ 0.016 χ^2 /NDF: 550268.0/28

All: 84.941 $\pm$ 0.011 χ^2 /NDF: 1019428.6/53

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: -1360.782 $\pm$ 339.220 χ^2 /NDF:28.6/9

Right Out: 1015.387 $\pm$ 569.773 χ^2 /NDF: 12.5/18

Left In: 46.319 $\pm$ 346.917 χ^2 /NDF:8.4/8

Left: -673.015 $\pm$ 242.540 χ^2 /NDF: 45.4/18

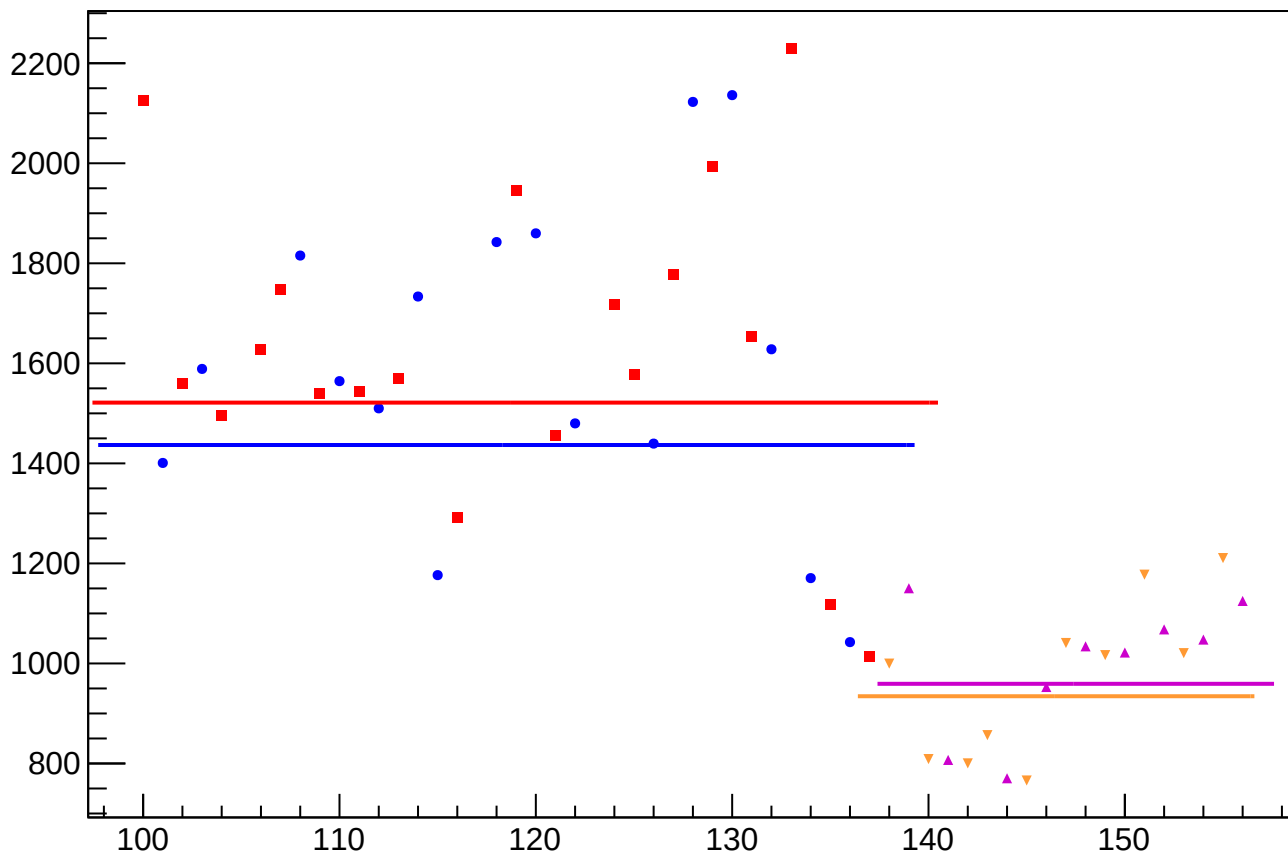
Right: -45.617 $\pm$ 395.792 χ^2 /NDF: 39.4/34

In: -261.280 $\pm$ 293.455 χ^2 /NDF:31.4/24

Out: -738.952 $\pm$ 291.473 χ^2 /NDF:53.9/28

All: -501.734 $\pm$ 206.800 χ^2 /NDF: 86.6/53

asym_sam_24_68_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1436.738+/-0.389 χ^2/NDF : 675680.8/15

Left Out: 934.442+/-0.240 χ^2/NDF : 357627.3/9

Right Out: 1521.496+/-0.403 χ^2/NDF : 498363.4/18

Left In: 959.290+/-0.245 χ^2/NDF : 297156.0/8

Left: 946.588+/-0.172 χ^2/NDF : 660028.6/18

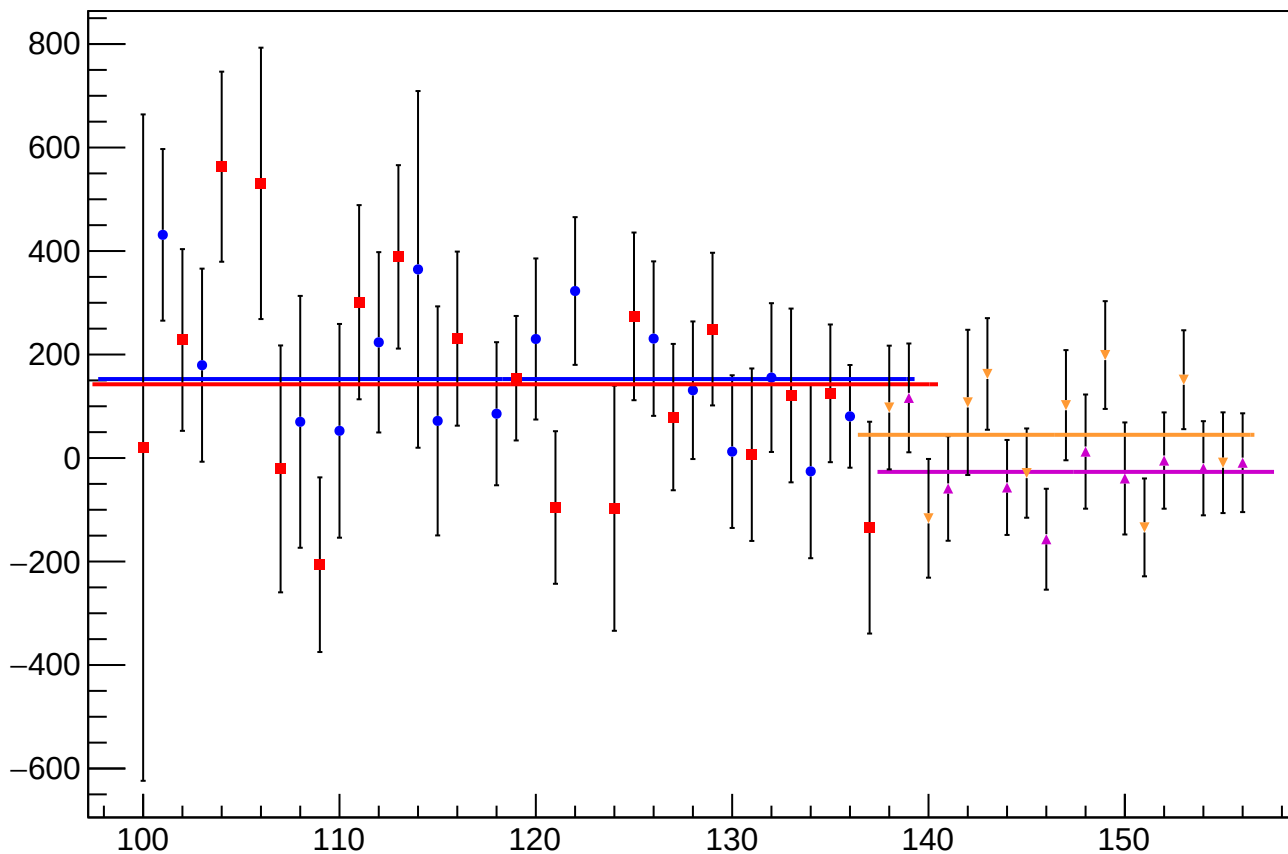
Right: 1477.637+/-0.280 χ^2/NDF : 1196946.2/34

In: 1095.107+/-0.208 χ^2/NDF : 2050436.9/24

Out: 1088.071+/-0.206 χ^2/NDF : 2423531.7/28

All: 1091.565+/-0.146 χ^2/NDF : 4474547.3/53

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: 44.869 $\pm$ 32.889 χ^2 /NDF:11.9/9

Right Out: 142.496 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: -26.788 $\pm$ 32.864 χ^2 /NDF:4.1/8

Left: 9.013 $\pm$ 23.247 χ^2 /NDF: 18.4/18

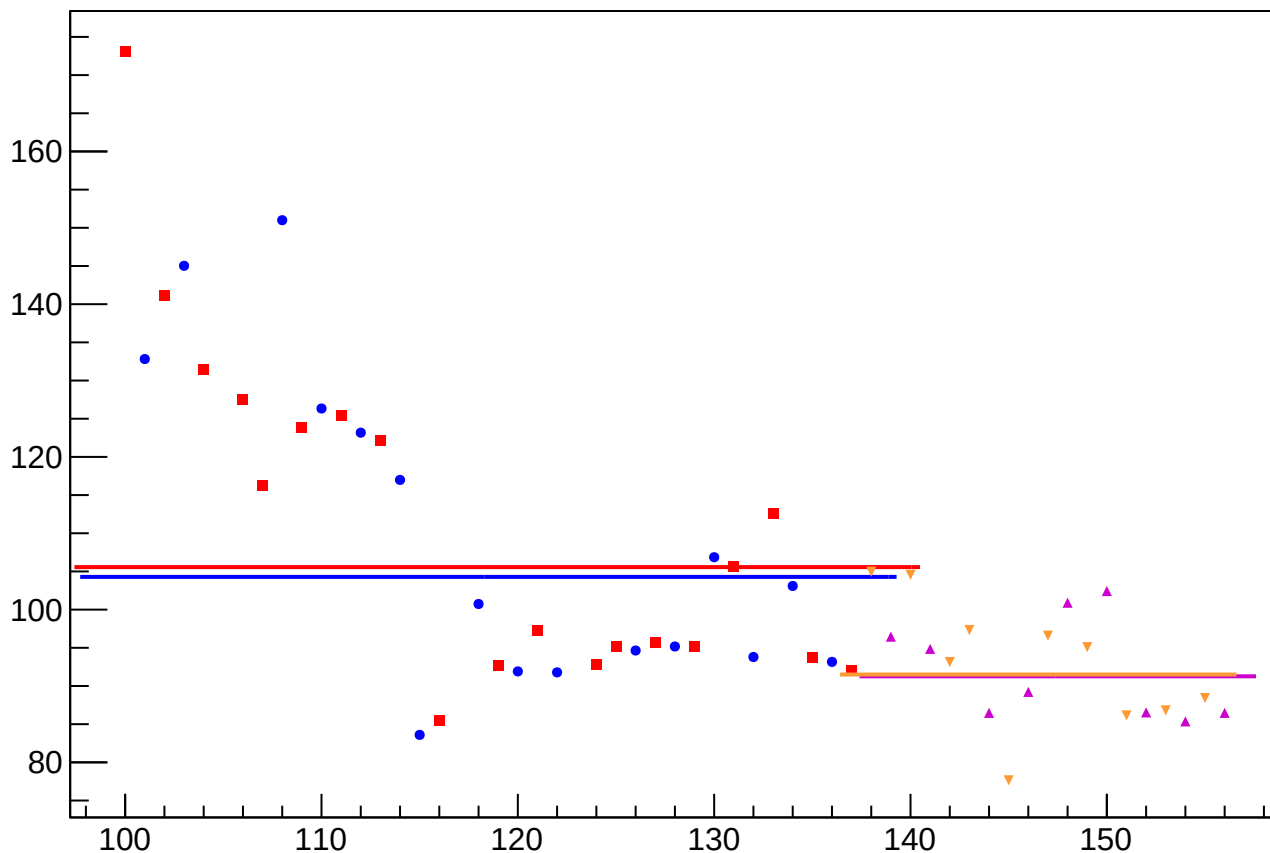
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 46.721 $\pm$ 25.249 χ^2 /NDF:24.9/24

Out: 85.032 $\pm$ 25.233 χ^2 /NDF:38.4/28

All: 65.889 $\pm$ 17.848 χ^2 /NDF: 64.5/53

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: 91.500 $\pm$ 0.023 χ^2 /NDF:129178.7/9

Right Out: 105.568 $\pm$ 0.028 χ^2 /NDF: 344605.9/18

Left In: 91.267 $\pm$ 0.023 χ^2 /NDF:68878.7/8

Left: 91.383 $\pm$ 0.016 χ^2 /NDF: 198107.8/18

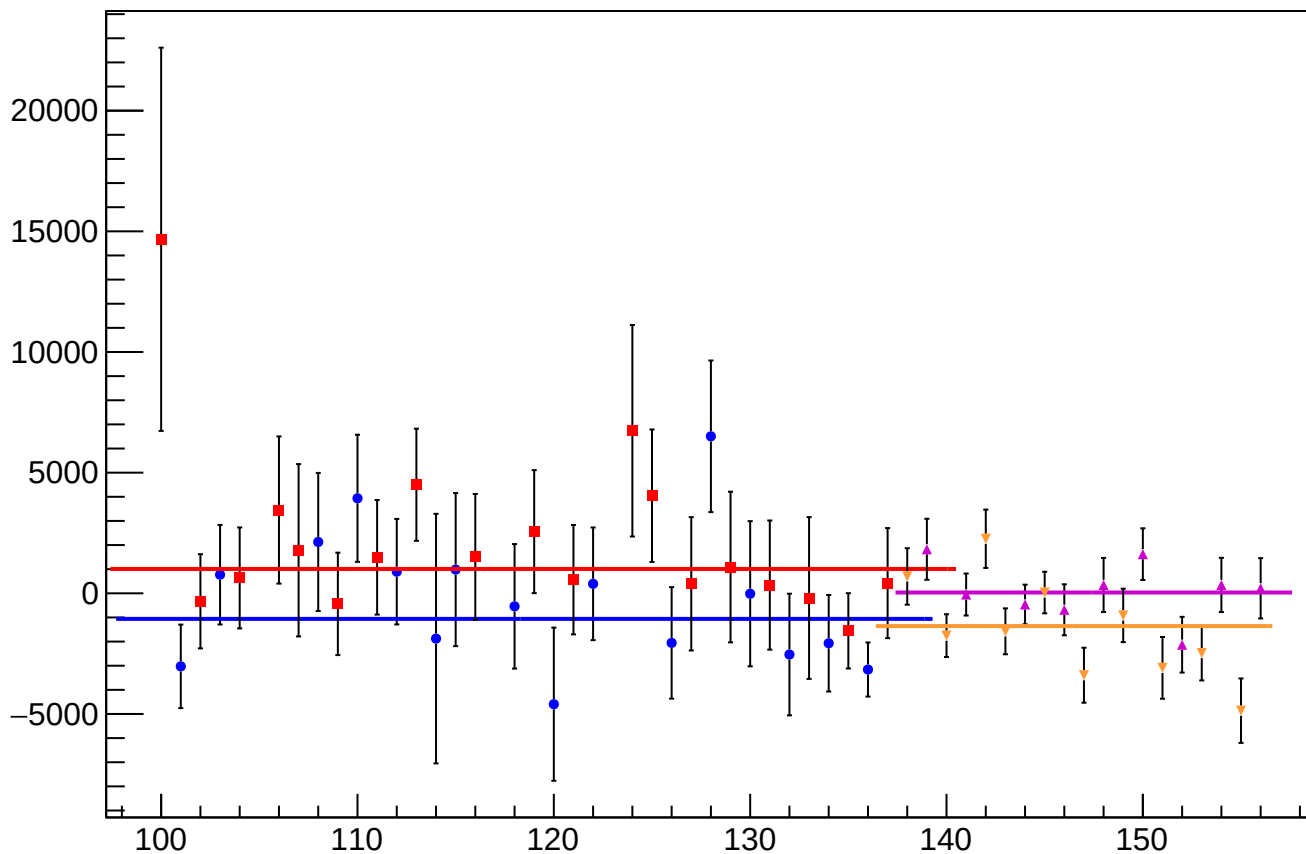
Right: 104.929 $\pm$ 0.020 χ^2 /NDF: 723975.9/34

In: 96.601 $\pm$ 0.018 χ^2 /NDF:575796.7/24

Out: 97.288 $\pm$ 0.018 χ^2 /NDF:624325.9/28

All: 96.944 $\pm$ 0.013 χ^2 /NDF: 1200862.3/53

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: -1356.916 $\pm$ 339.349 χ^2 /NDF:28.0/9

Right Out: 1009.907 $\pm$ 575.100 χ^2 /NDF: 13.3/18

Left In: 34.274 $\pm$ 349.601 χ^2 /NDF:8.7/8

Left: -682.019 $\pm$ 243.500 χ^2 /NDF: 44.9/18

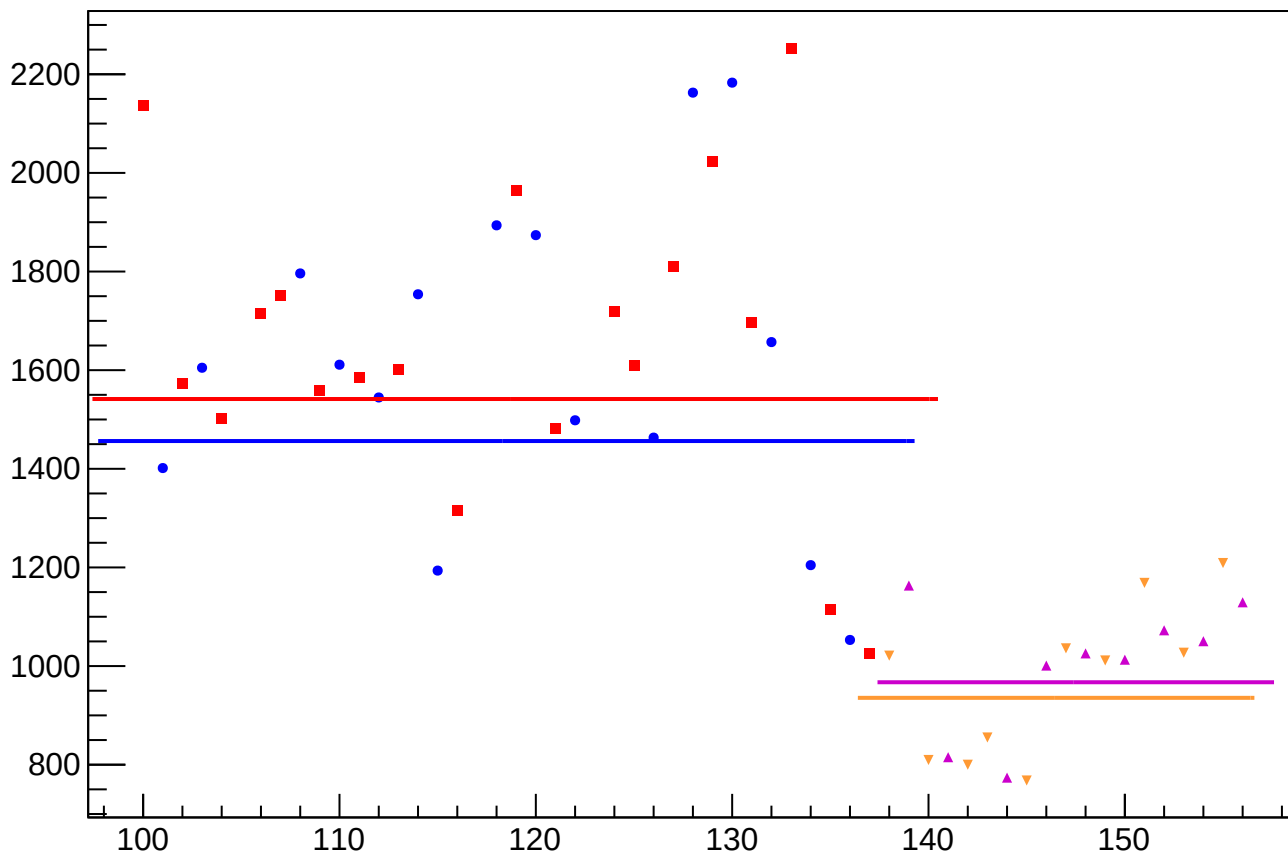
Right: -56.604 $\pm$ 400.343 χ^2 /NDF: 40.0/34

In: -274.286 $\pm$ 296.205 χ^2 /NDF:31.5/24

Out: -745.660 $\pm$ 292.262 χ^2 /NDF:53.8/28

All: -513.131 $\pm$ 208.040 χ^2 /NDF: 86.6/53

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: 935.582+/-0.240 χ^2/NDF : 354671.0/9

Right Out: 1541.522+/-0.407 χ^2/NDF : 519336.6/18

Left In: 967.186+/-0.247 χ^2/NDF : 292772.0/8

Left: 950.914+/-0.172 χ^2/NDF : 655858.7/18

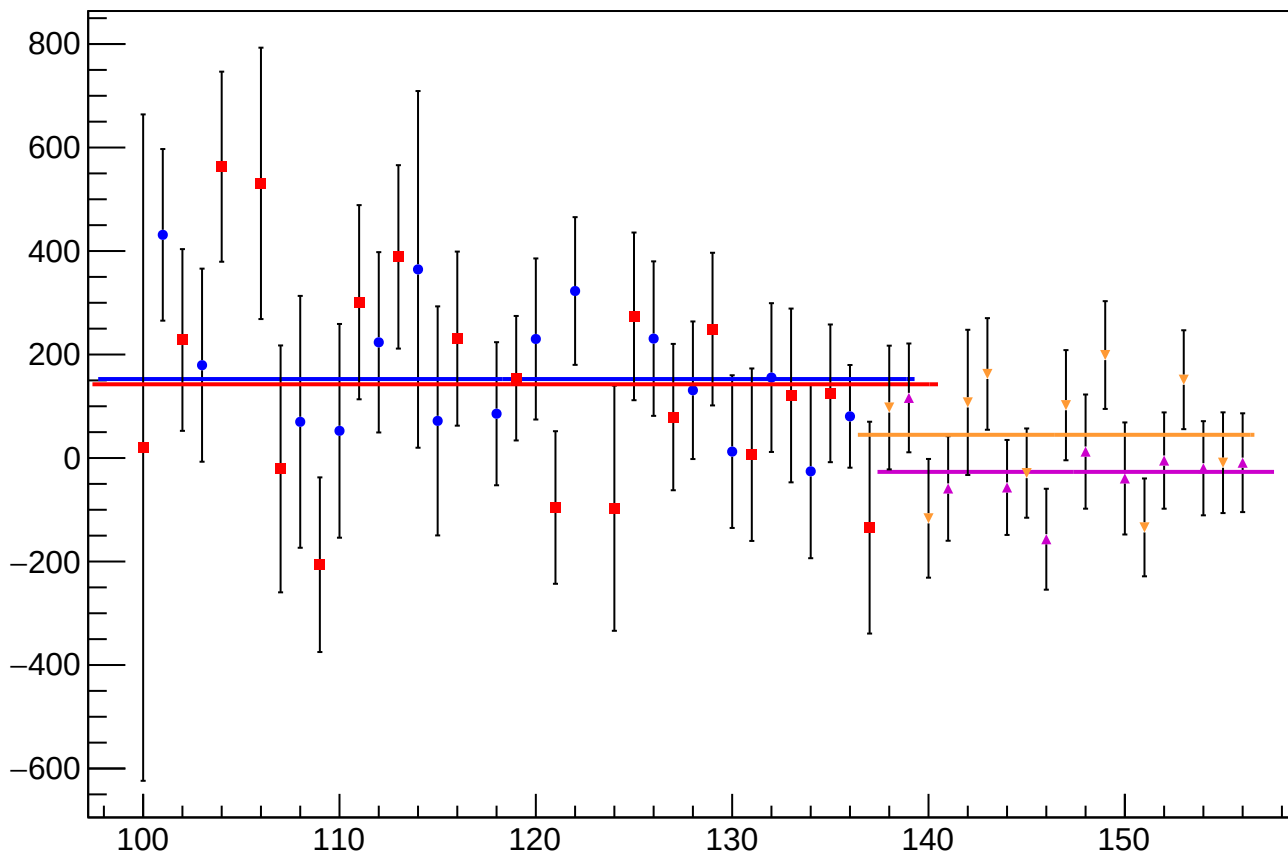
Right: 1497.600+/-0.283 χ^2/NDF : 1226777.5/34

In: 1105.187+/-0.209 χ^2/NDF : 2082110.9/24

Out: 1092.072+/-0.207 χ^2/NDF : 2520862.5/28

All: 1098.542+/-0.147 χ^2/NDF : 4604960.0/53

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: 44.868 $\pm$ 32.889 χ^2 /NDF:11.9/9

Right Out: 142.494 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: -26.788 $\pm$ 32.864 χ^2 /NDF:4.1/8

Left: 9.013 $\pm$ 23.247 χ^2 /NDF: 18.4/18

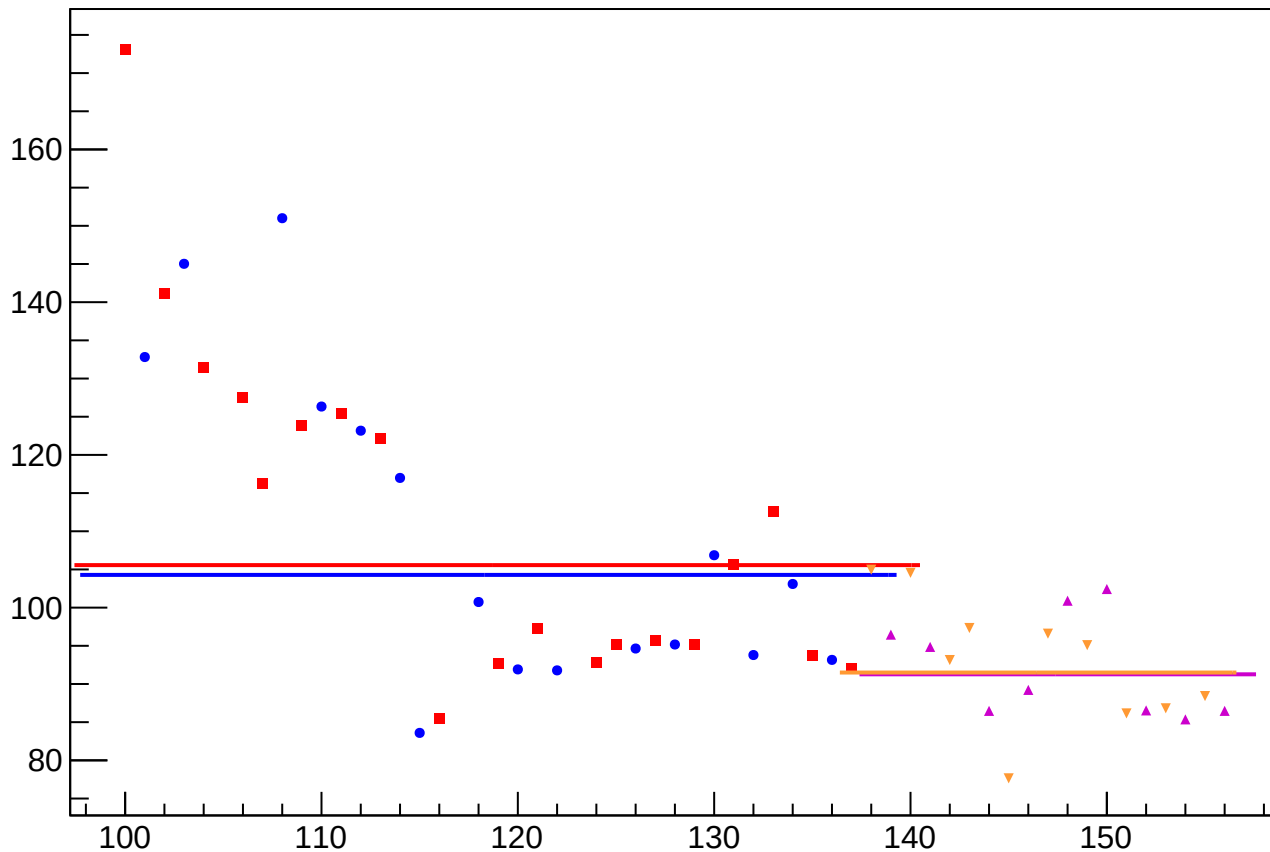
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 46.723 $\pm$ 25.249 χ^2 /NDF:24.9/24

Out: 85.031 $\pm$ 25.233 χ^2 /NDF:38.4/28

All: 65.889 $\pm$ 17.848 χ^2 /NDF: 64.5/53

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: 91.500 $\pm$ 0.023 χ^2 /NDF:129175.7/9

Right Out: 105.567 $\pm$ 0.028 χ^2 /NDF: 344605.1/18

Left In: 91.267 $\pm$ 0.023 χ^2 /NDF:68875.5/8

Left: 91.383 $\pm$ 0.016 χ^2 /NDF: 198101.5/18

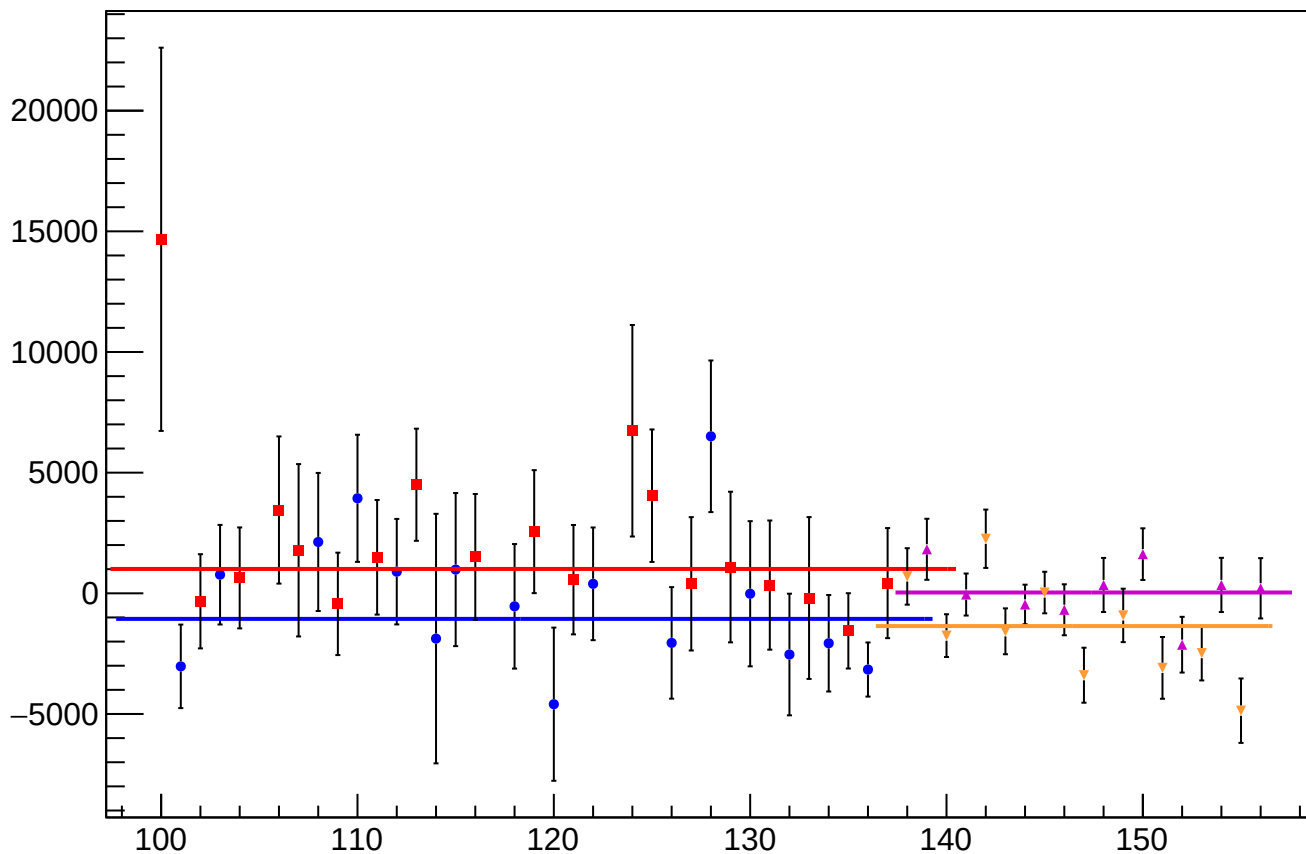
Right: 104.928 $\pm$ 0.020 χ^2 /NDF: 723977.9/34

In: 96.601 $\pm$ 0.018 χ^2 /NDF:575774.9/24

Out: 97.287 $\pm$ 0.018 χ^2 /NDF:624304.5/28

All: 96.944 $\pm$ 0.013 χ^2 /NDF: 1200819.4/53

asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1059.353+/-557.644 χ^2/NDF : 20.0/15

Left Out: -1356.916+/-339.349 χ^2/NDF :28.0/9

Right Out: 1009.907+/-575.099 χ^2/NDF : 13.3/18

Left In: 34.274+/-349.601 χ^2/NDF :8.7/8

Left: -682.019+/-243.500 χ^2/NDF : 44.9/18

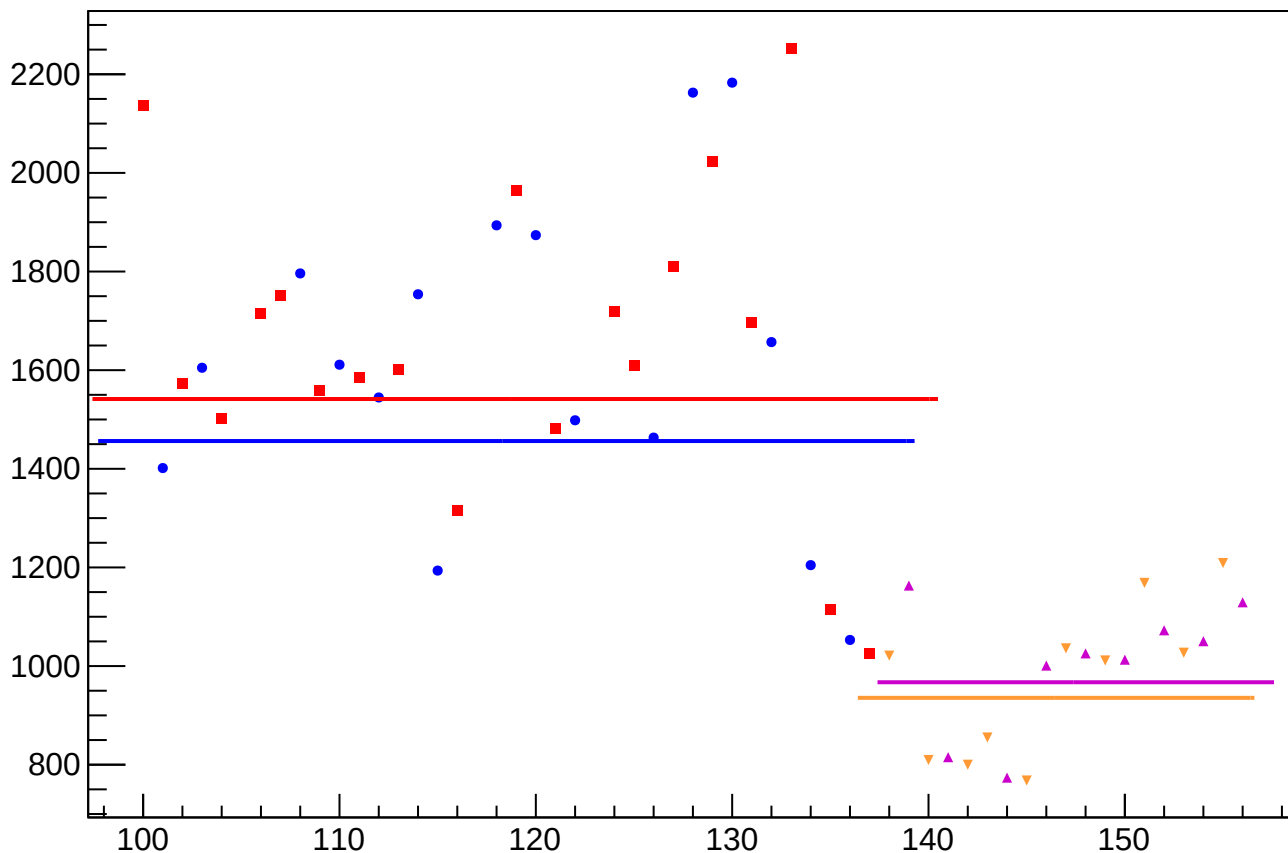
Right: -56.602+/-400.342 χ^2/NDF : 40.0/34

In: -274.285+/-296.205 χ^2/NDF :31.5/24

Out: -745.658+/-292.262 χ^2/NDF :53.8/28

All: -513.130+/-208.040 χ^2/NDF : 86.6/53

asym_sam_24_68_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1456.301+/-0.394 χ^2/NDF : 684803.6/15

Left Out: 935.581+/-0.240 χ^2/NDF : 354673.4/9

Right Out: 1541.520+/-0.407 χ^2/NDF : 519336.6/18

Left In: 967.185+/-0.247 χ^2/NDF : 292772.9/8

Left: 950.913+/-0.172 χ^2/NDF : 655862.1/18

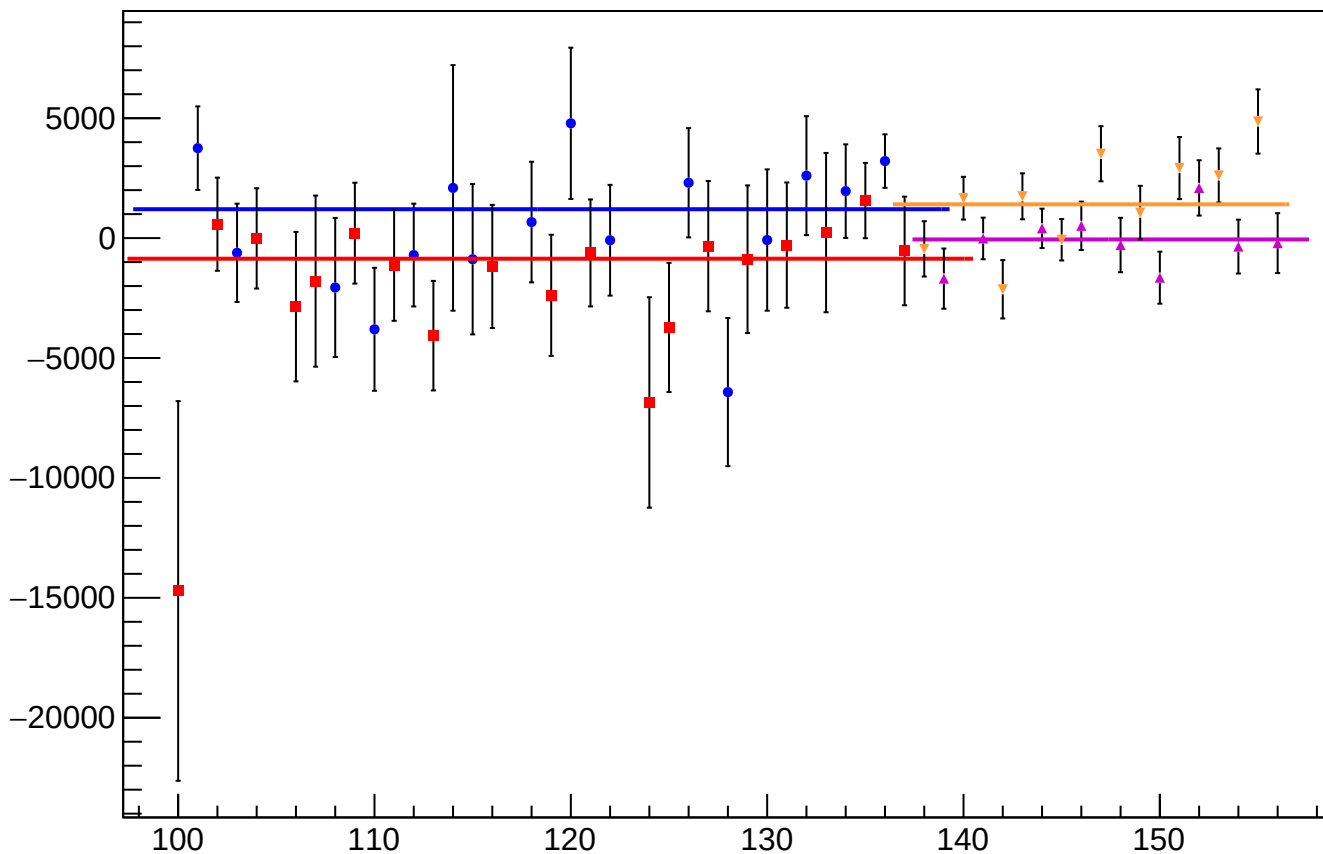
Right: 1497.597+/-0.283 χ^2/NDF : 1226774.5/34

In: 1105.186+/-0.209 χ^2/NDF : 2082103.3/24

Out: 1092.071+/-0.207 χ^2/NDF : 2520859.7/28

All: 1098.541+/-0.147 χ^2/NDF : 4604949.7/53

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: 1408.805 $\pm$ 340.672 χ^2 /NDF:26.8/9

Right Out: -859.290 $\pm$ 570.391 χ^2 /NDF: 12.5/18

Left In: -55.318 $\pm$ 348.272 χ^2 /NDF:8.1/8

Left: 692.891 $\pm$ 243.534 χ^2 /NDF: 43.9/18

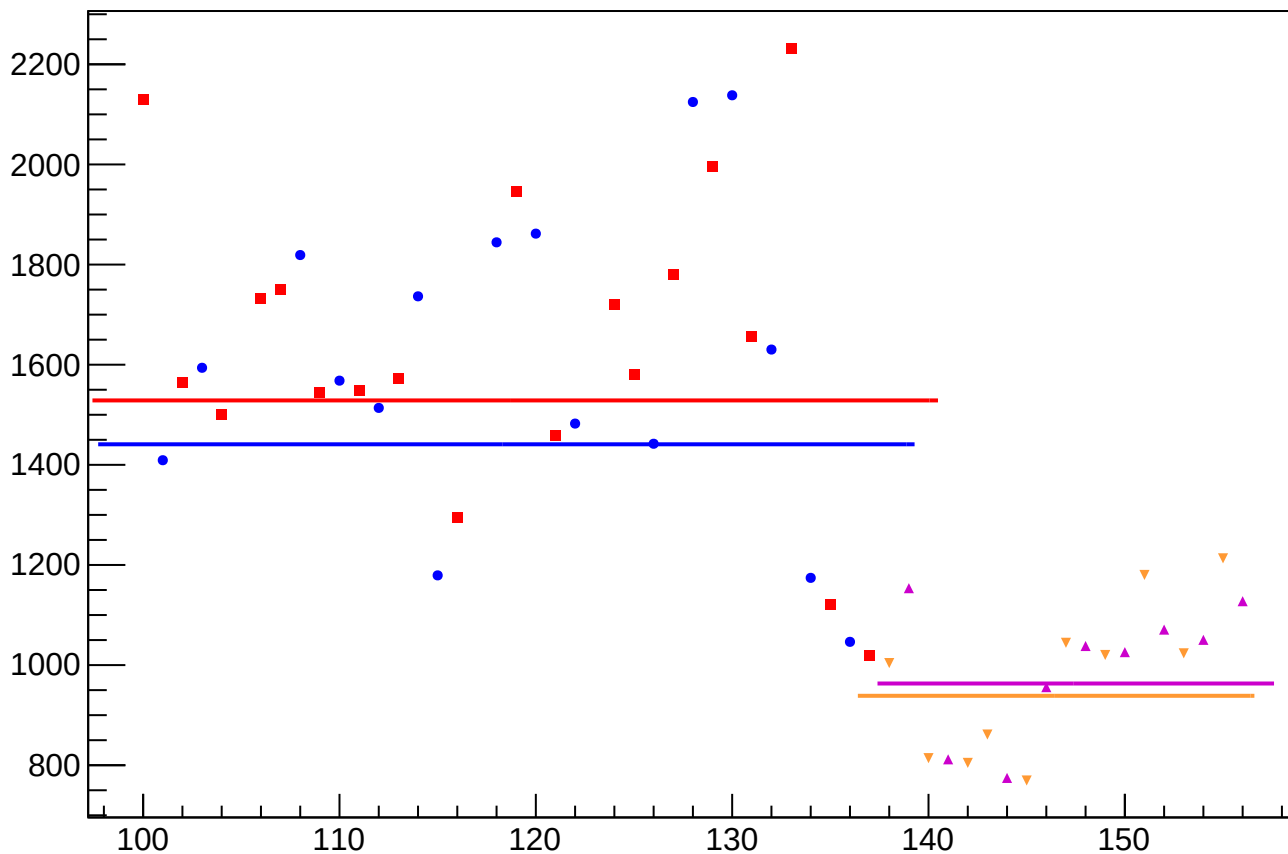
Right: 207.019 $\pm$ 396.565 χ^2 /NDF: 40.4/34

In: 303.694 $\pm$ 294.505 χ^2 /NDF:33.0/24

Out: 812.458 $\pm$ 292.477 χ^2 /NDF:51.0/28

All: 559.834 $\pm$ 207.526 χ^2 /NDF: 85.4/53

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1441.025 $\pm$ 0.390 χ^2/NDF : 670674.6/15

Left Out: 938.681 $\pm$ 0.241 χ^2/NDF : 352117.4/9

Right Out: 1528.652 $\pm$ 0.403 χ^2/NDF : 501717.6/18

Left In: 963.228 $\pm$ 0.246 χ^2/NDF : 292200.4/8

Left: 950.684 $\pm$ 0.172 χ^2/NDF : 649394.9/18

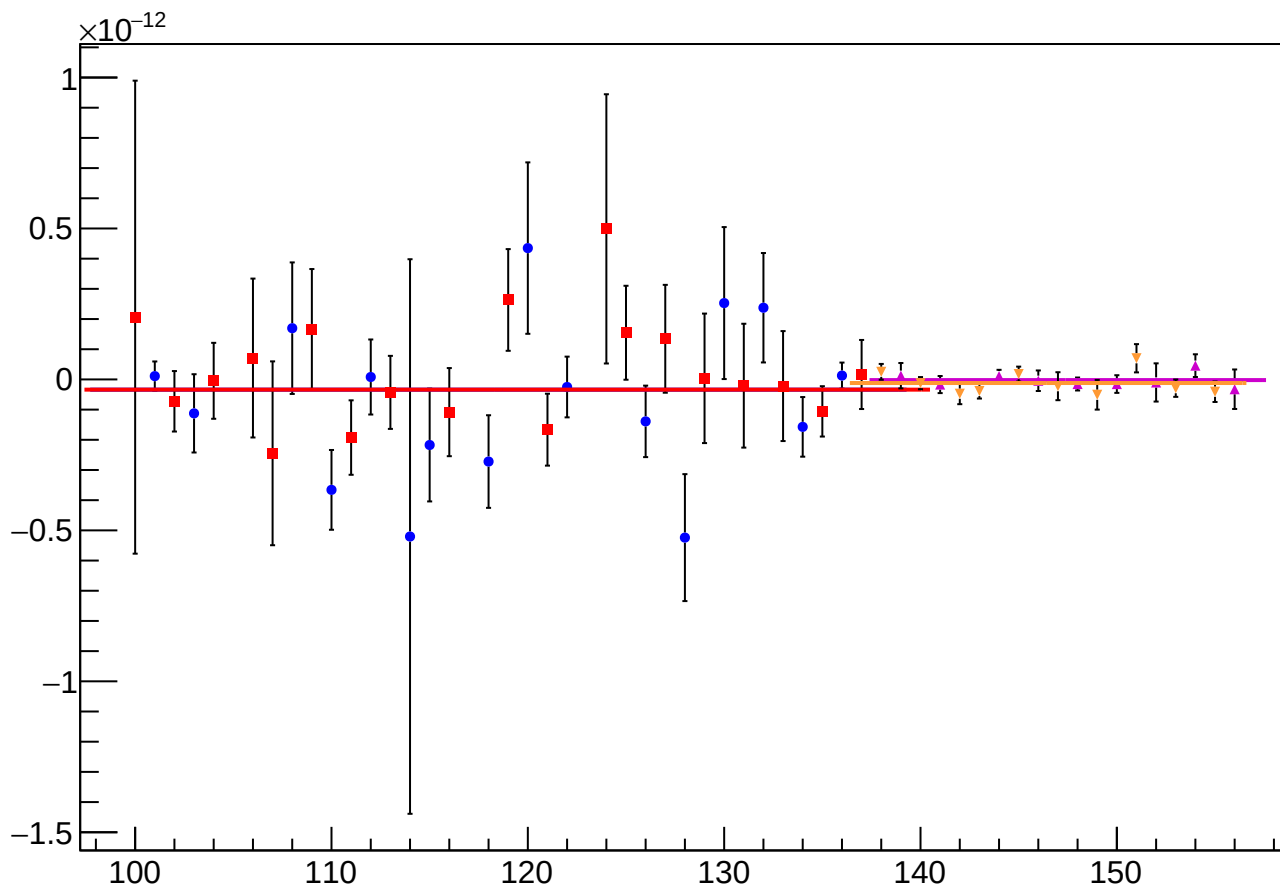
Right: 1483.381 $\pm$ 0.280 χ^2/NDF : 1196778.1/34

In: 1099.365 $\pm$ 0.208 χ^2/NDF : 2035420.1/24

Out: 1093.801 $\pm$ 0.207 χ^2/NDF : 2430917.7/28

All: 1096.564 $\pm$ 0.147 χ^2/NDF : 4466697.2/53

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 : 10.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.2/8

Left: -0.000+/-0.000 χ^2/NDF : 14.1/18

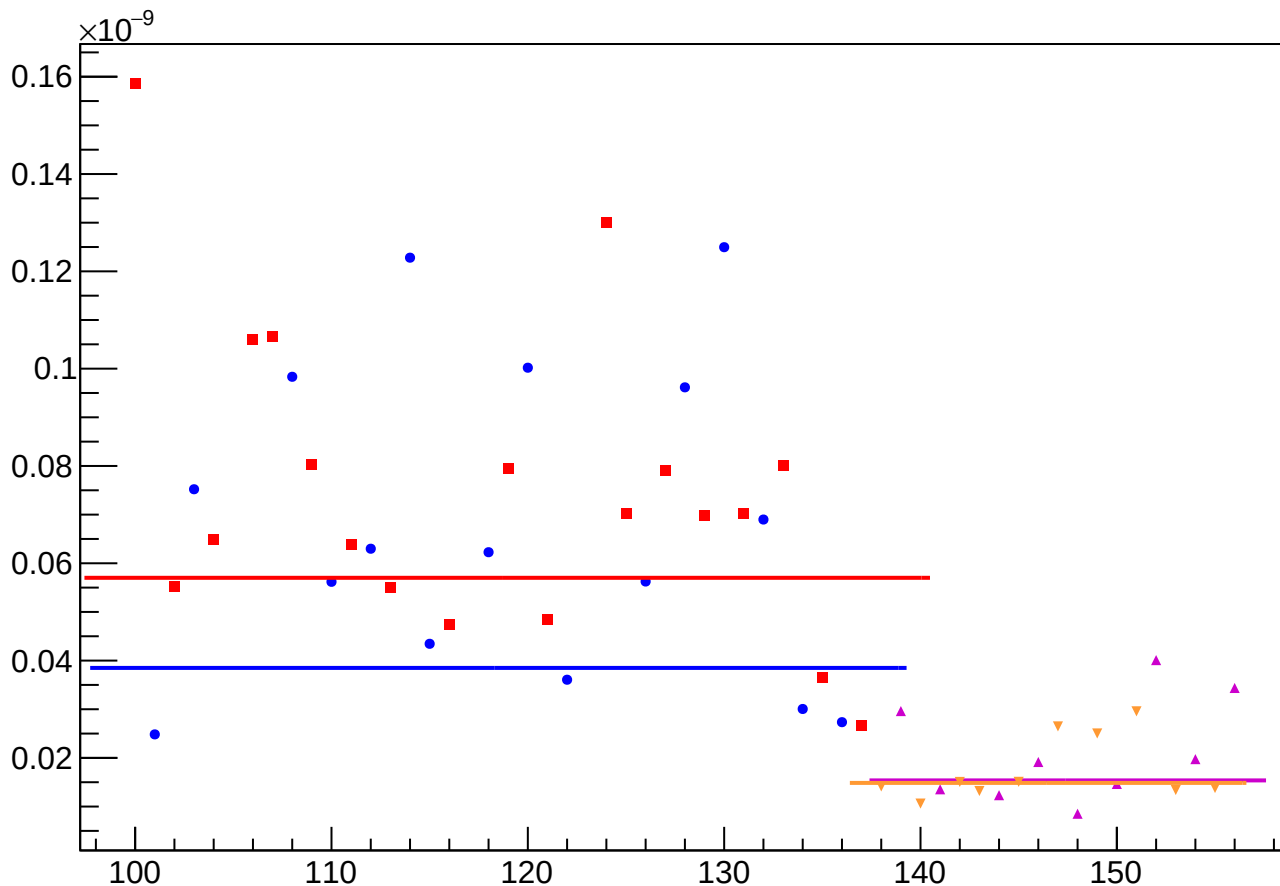
Right: -0.000+/-0.000 χ^2/NDF : 40.4/34

In: -0.000+/-0.000 χ^2/NDF : 32.0/24

Out: -0.000+/-0.000 χ^2/NDF : 23.8/28

All: -0.000+/-0.000 χ^2/NDF : 56.1/53

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 : 515158.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 660994.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1011624.3/8

Left: 0.000+/-0.000 χ^2/NDF : 1529511.6/18

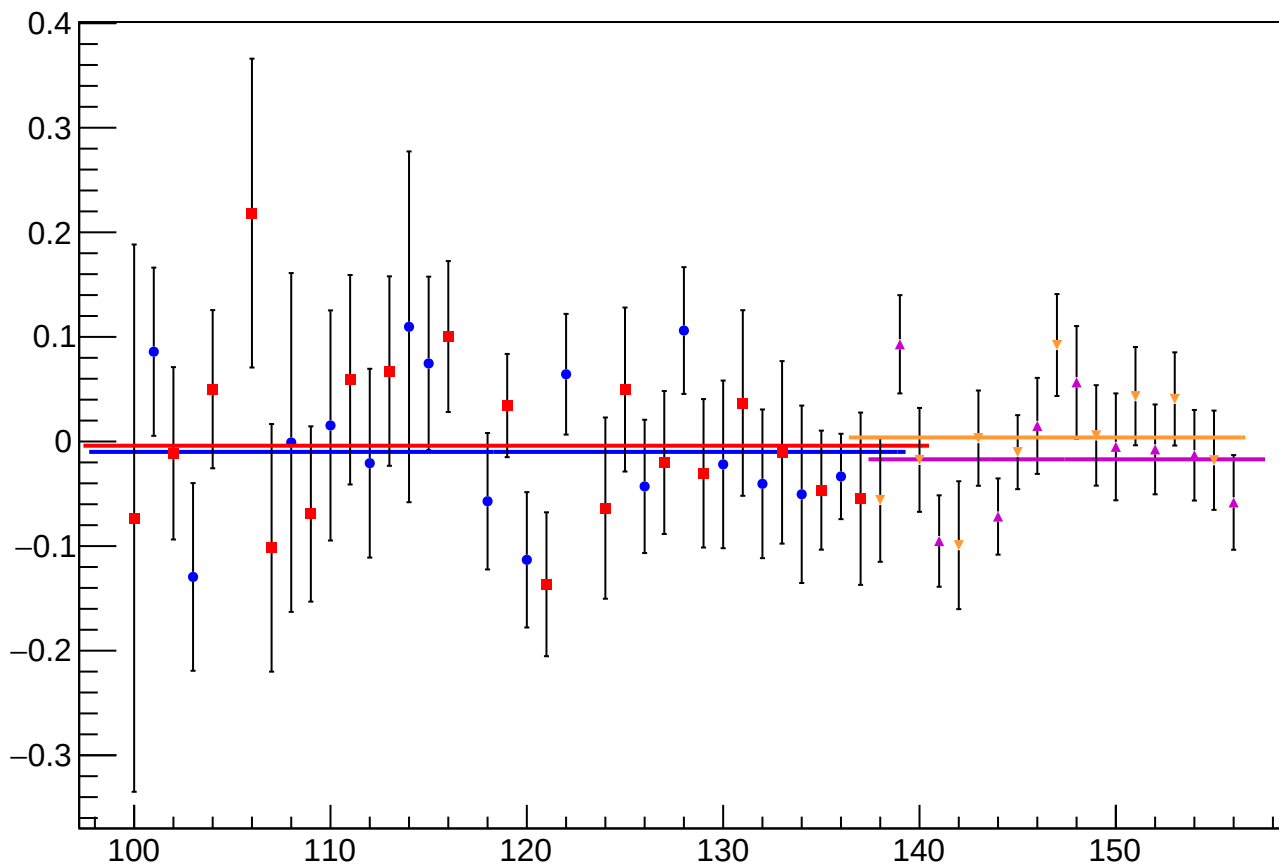
Right: 0.000+/-0.000 χ^2/NDF : 2430892.0/34

In: 0.000+/-0.000 χ^2/NDF : 3853806.6/24

Out: 0.000+/-0.000 χ^2/NDF : 4065720.9/28

All: 0.000+/-0.000 χ^2/NDF : 7927358.2/53

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: 0.004 ± 0.015 χ^2/NDF : 9.1/9

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.017 ± 0.015 χ^2/NDF : 14.2/8

Left: -0.007 ± 0.011 χ^2/NDF : 24.3/18

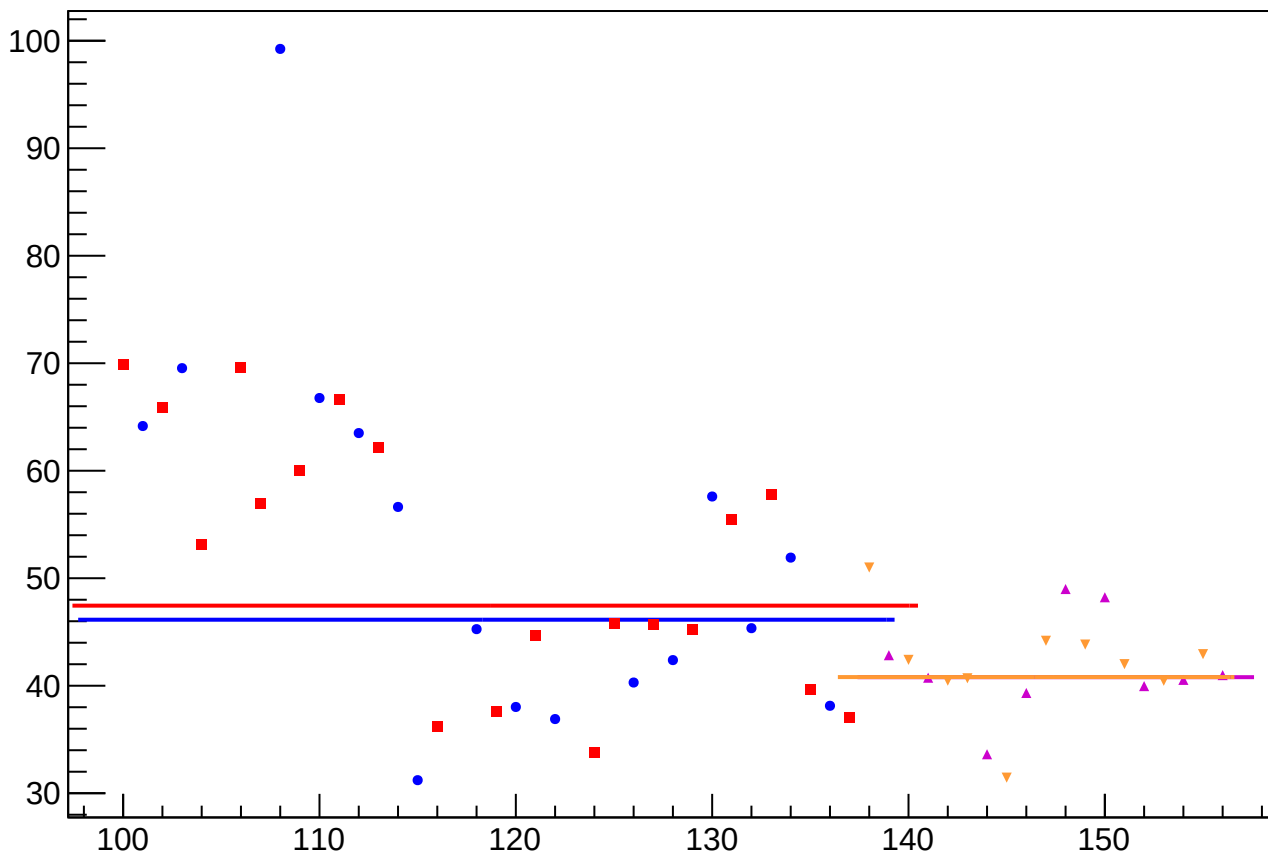
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.014 ± 0.011 χ^2/NDF : 28.6/24

Out: 0.001 ± 0.012 χ^2/NDF : 23.1/28

All: -0.007 ± 0.008 χ^2/NDF : 52.5/53

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: 40.805 $\pm$ 0.011 χ^2/NDF : 224437.1/9

Right Out: 47.450 $\pm$ 0.013 χ^2/NDF : 654693.6/18

Left In: 40.796 $\pm$ 0.011 χ^2/NDF : 172925.2/8

Left: 40.800 $\pm$ 0.007 χ^2/NDF : 397362.7/18

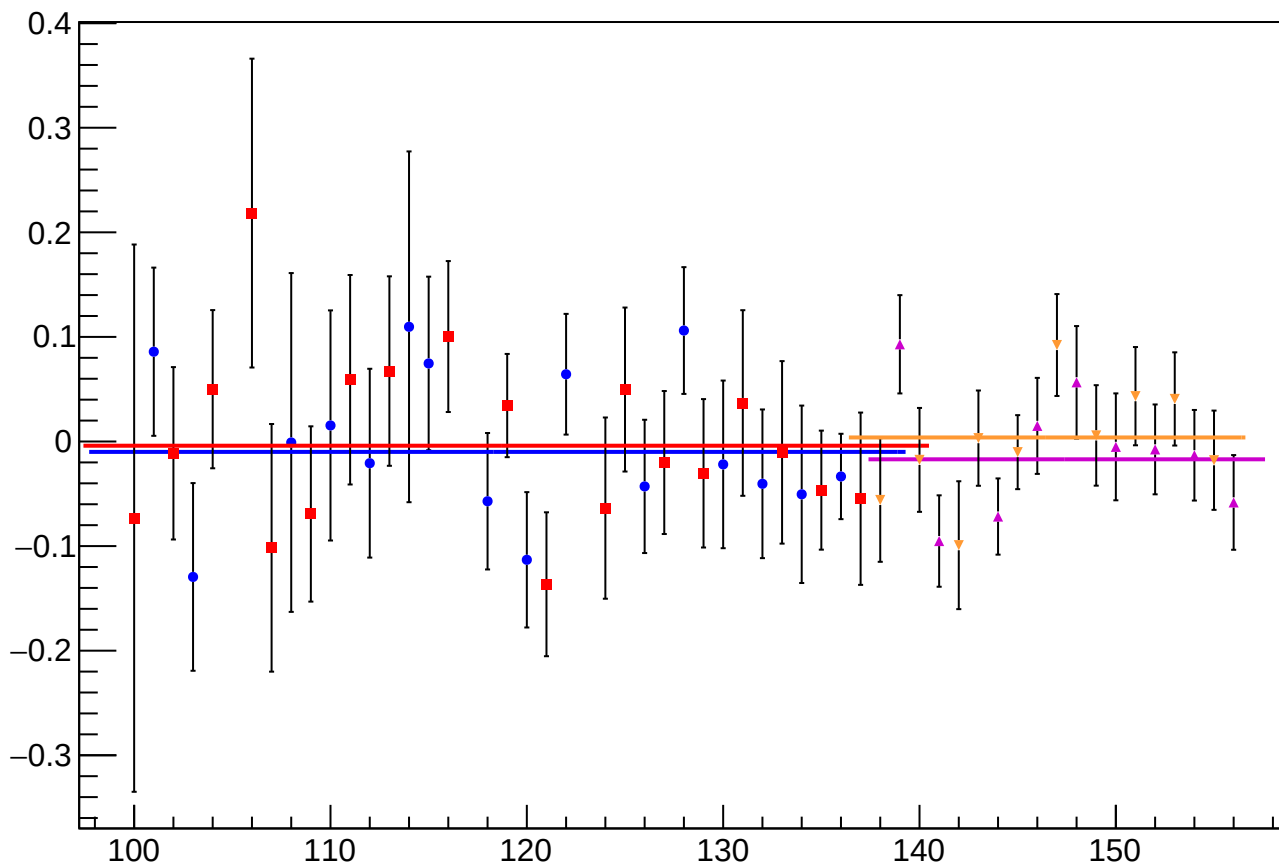
Right: 46.792 $\pm$ 0.009 χ^2/NDF : 1563231.6/34

In: 42.973 $\pm$ 0.008 χ^2/NDF : 1180841.4/24

Out: 43.493 $\pm$ 0.008 χ^2/NDF : 1039753.1/28

All: 43.233 $\pm$ 0.006 χ^2/NDF : 2222643.6/53

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: 0.004 ± 0.015 χ^2/NDF : 9.1/9

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.017 ± 0.015 χ^2/NDF : 14.2/8

Left: -0.007 ± 0.011 χ^2/NDF : 24.3/18

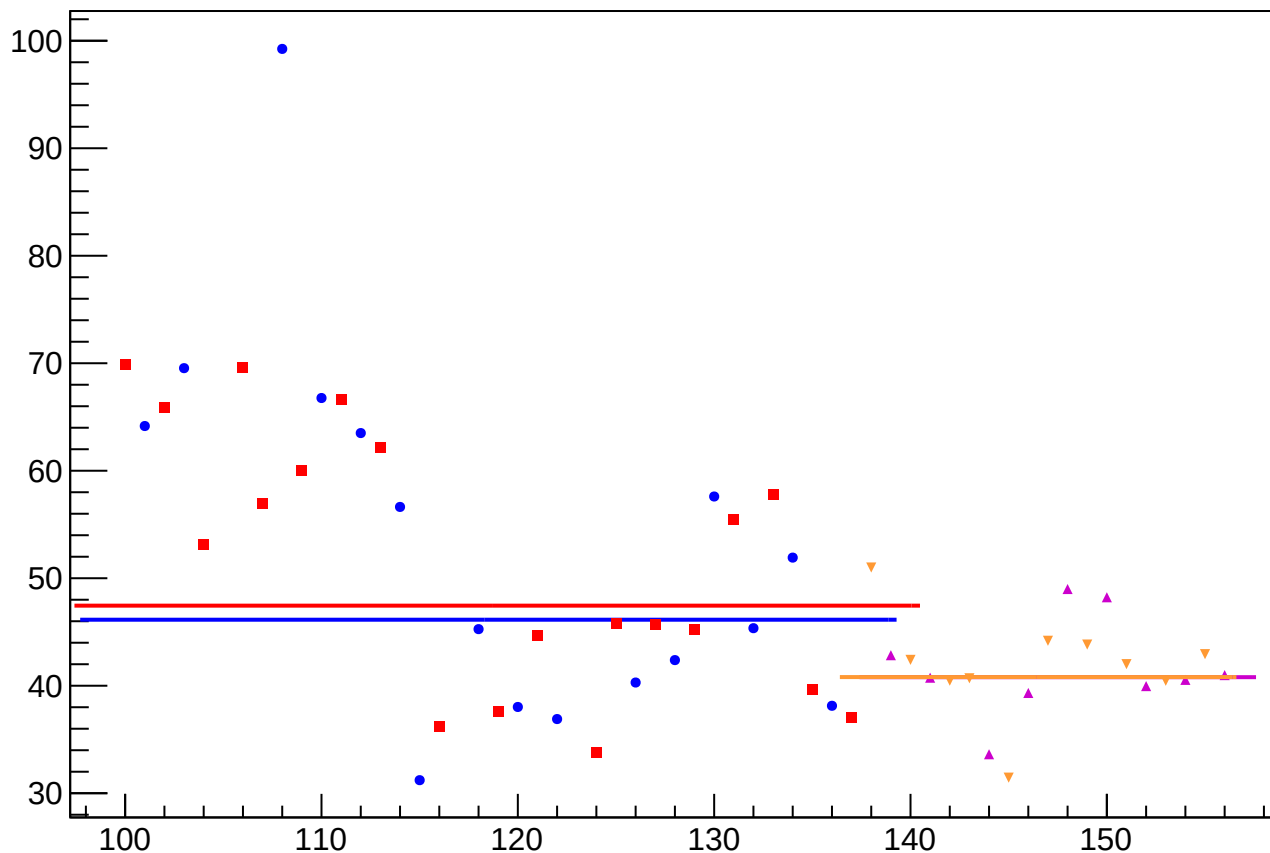
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.014 ± 0.011 χ^2/NDF : 28.6/24

Out: 0.001 ± 0.012 χ^2/NDF : 23.1/28

All: -0.007 ± 0.008 χ^2/NDF : 52.5/53

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: 40.805 $\pm$ 0.011 χ^2/NDF :224437.1/9

Right Out: 47.450 $\pm$ 0.013 χ^2/NDF : 654693.6/18

Left In: 40.796 $\pm$ 0.011 χ^2/NDF :172925.2/8

Left: 40.800 $\pm$ 0.007 χ^2/NDF : 397362.7/18

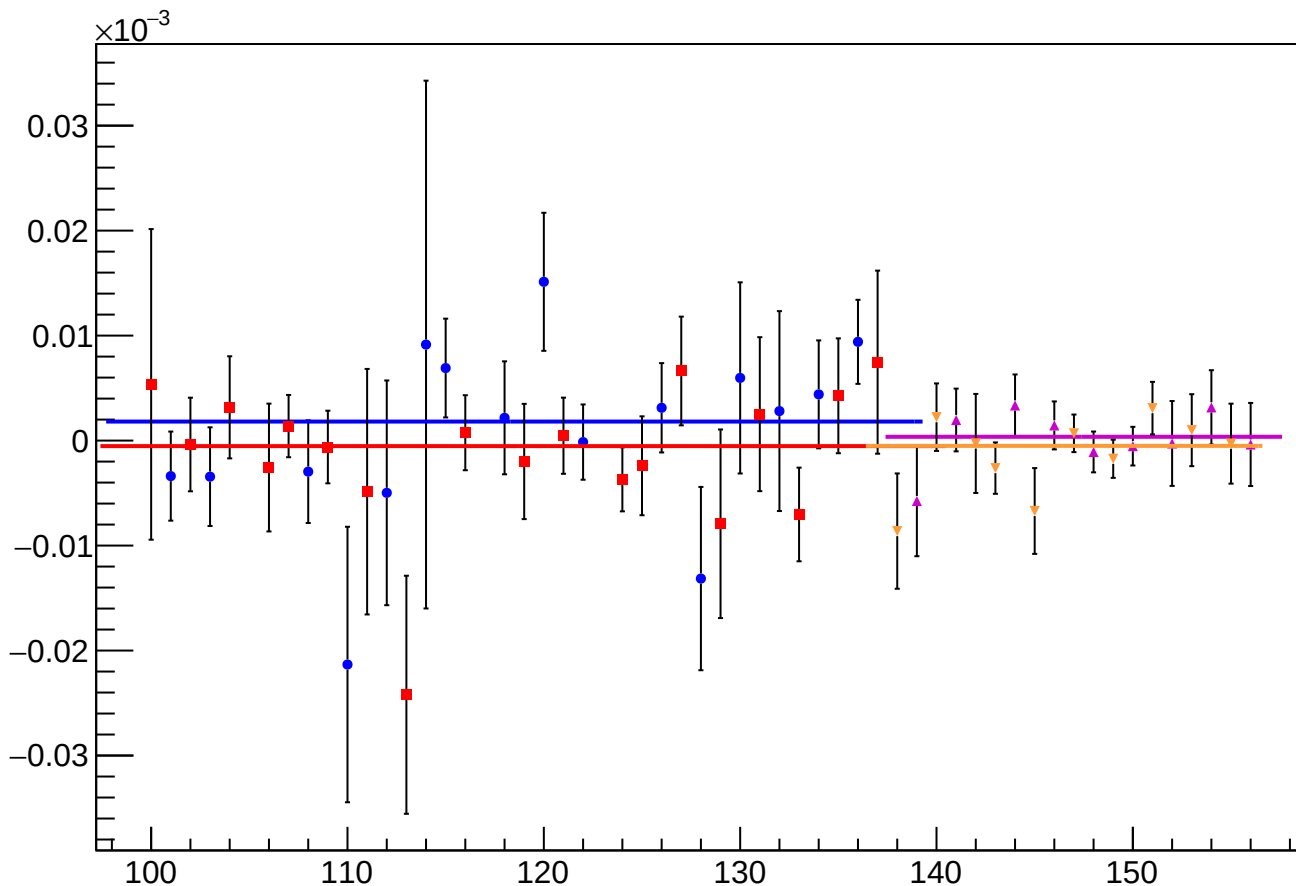
Right: 46.792 $\pm$ 0.009 χ^2/NDF : 1563231.6/34

In: 42.973 $\pm$ 0.008 χ^2/NDF :1180841.4/24

Out: 43.493 $\pm$ 0.008 χ^2/NDF :1039753.1/28

All: 43.233 $\pm$ 0.006 χ^2/NDF : 2222643.6/53

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.0/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.1/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 13.8/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 4.4/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.0/18

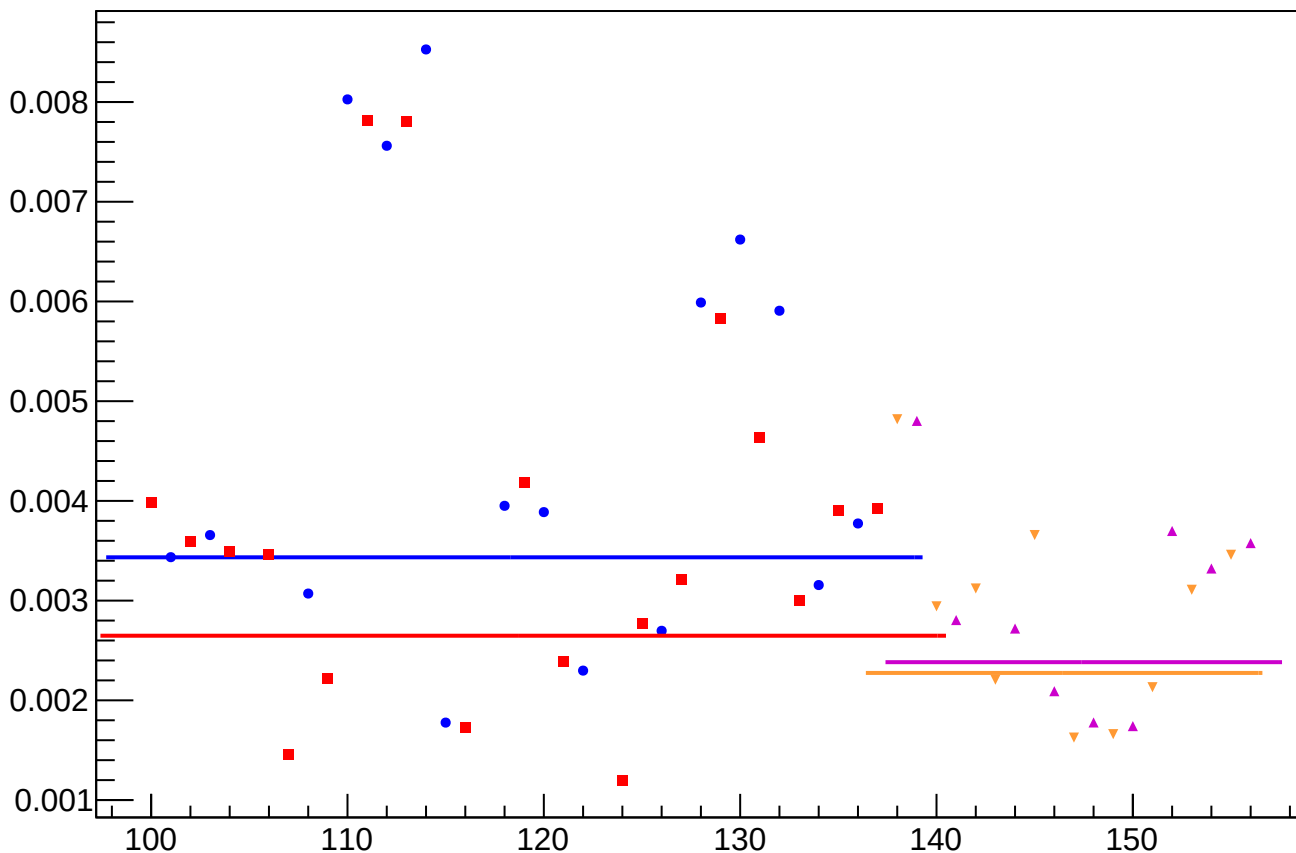
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 35.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.1/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 22.9/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 49.7/53

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: 0.002+/-0.000 χ^2/NDF :1619494.9/9

Right Out: 0.003+/-0.000 χ^2/NDF : 2696872.6/18

Left In: 0.002+/-0.000 χ^2/NDF :1492344.3/8

Left: 0.002+/-0.000 χ^2/NDF : 3126656.9/18

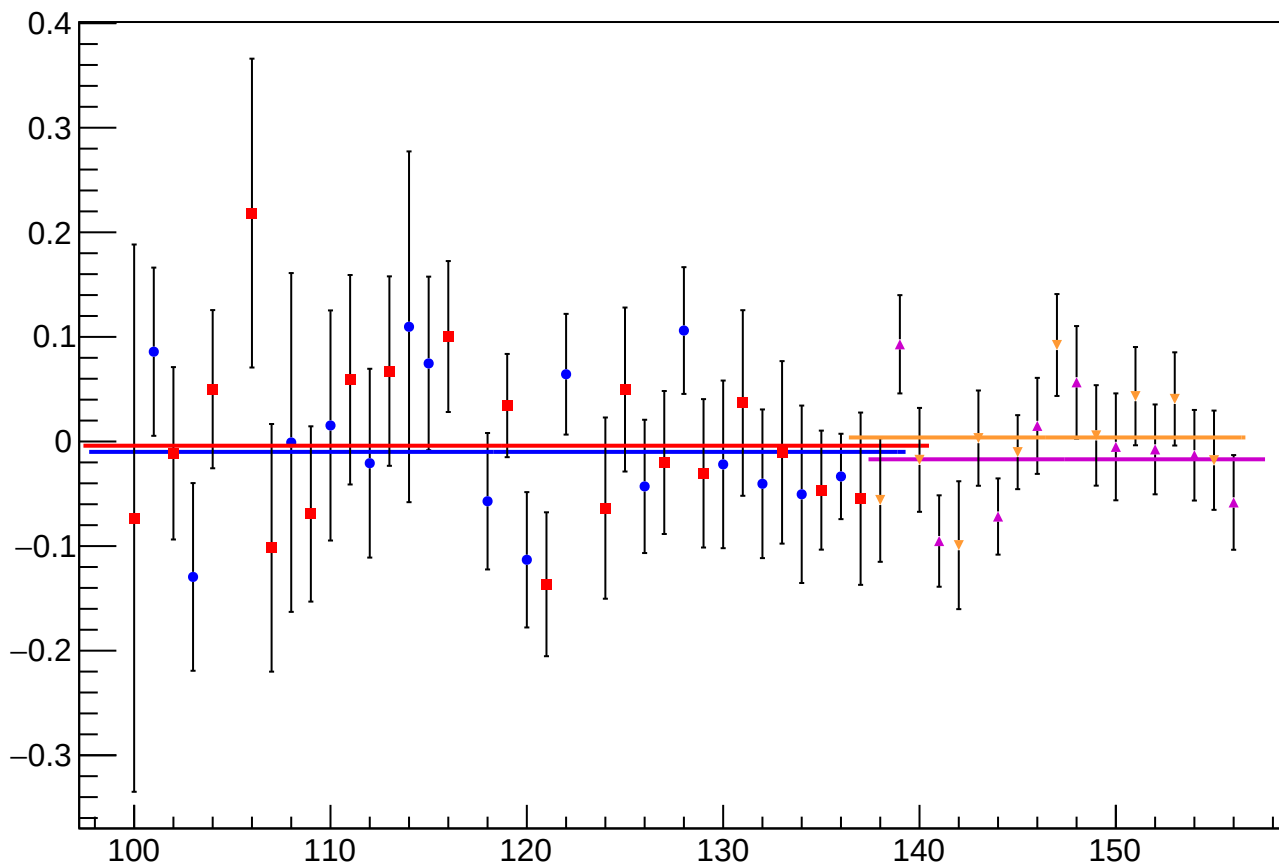
Right: 0.003+/-0.000 χ^2/NDF : 4848064.7/34

In: 0.003+/-0.000 χ^2/NDF :4058860.6/24

Out: 0.002+/-0.000 χ^2/NDF :4459987.4/28

All: 0.003+/-0.000 χ^2/NDF : 8673437.3/53

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 χ^2/NDF : 14.2/15

Left Out: 0.004 ± 0.015 χ^2/NDF : 9.1/9

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.017 ± 0.015 χ^2/NDF : 14.2/8

Left: -0.007 ± 0.011 χ^2/NDF : 24.3/18

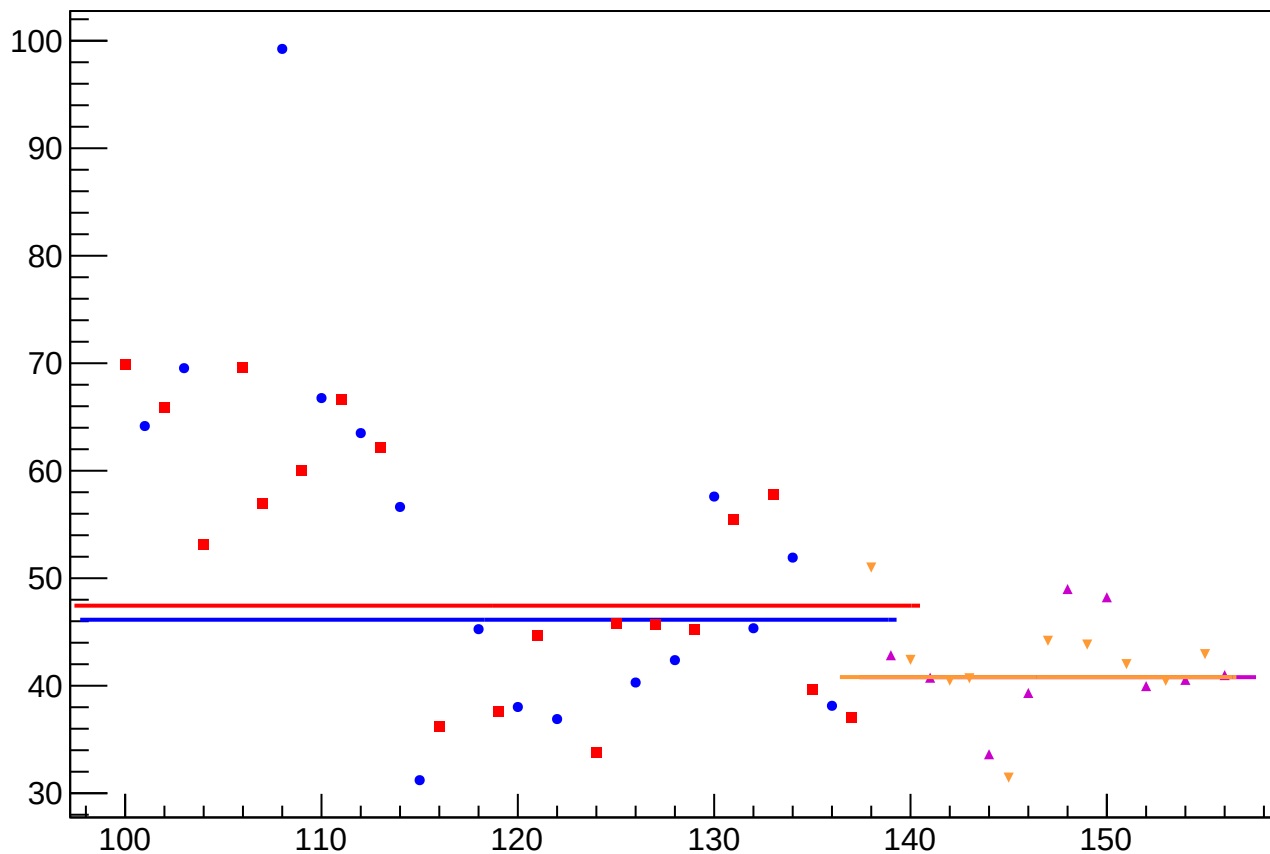
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.014 ± 0.011 χ^2/NDF : 28.6/24

Out: 0.001 ± 0.012 χ^2/NDF : 23.1/28

All: -0.007 ± 0.008 χ^2/NDF : 52.5/53

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: 40.805 $\pm$ 0.011 χ^2 /NDF: 224439.1/9

Right Out: 47.448 $\pm$ 0.013 χ^2 /NDF: 654687.8/18

Left In: 40.796 $\pm$ 0.011 χ^2 /NDF: 172928.2/8

Left: 40.800 $\pm$ 0.007 χ^2 /NDF: 397367.7/18

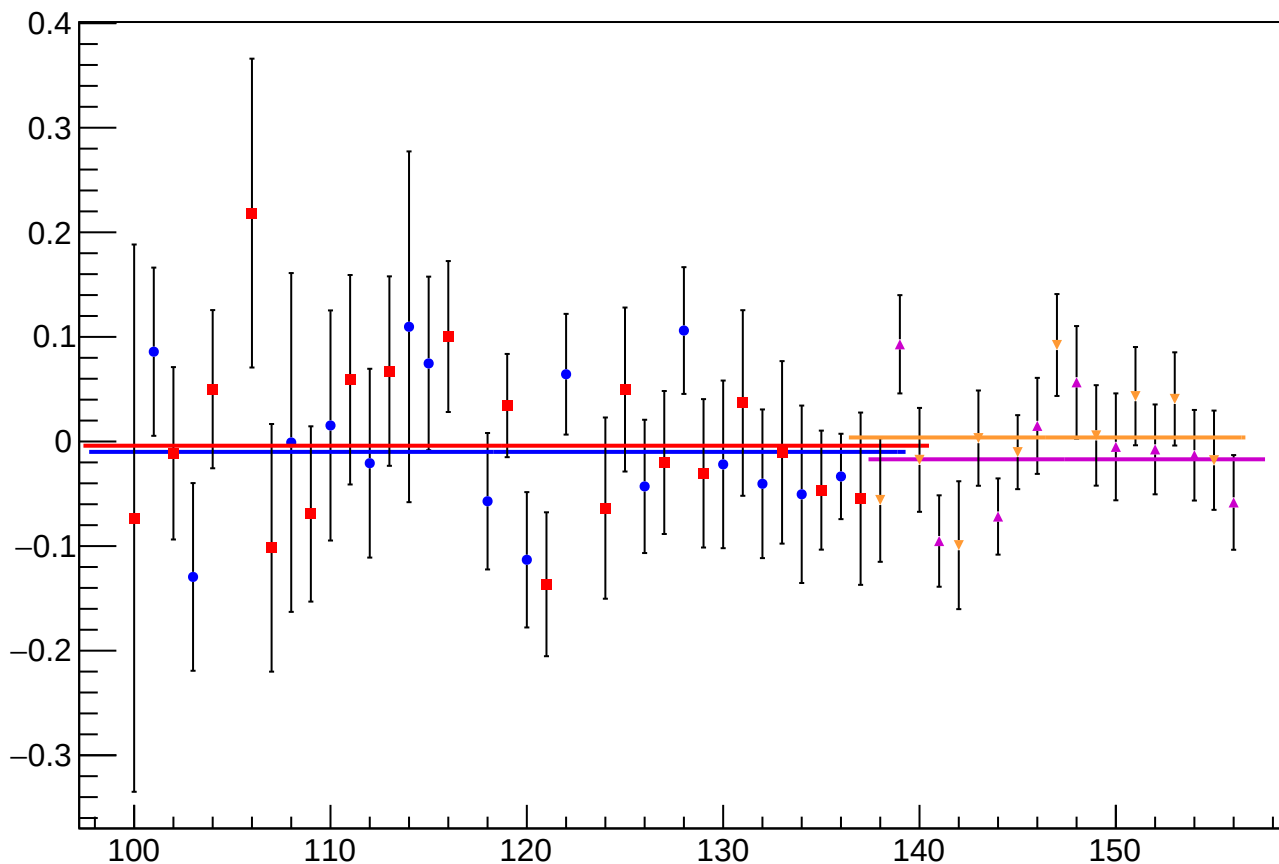
Right: 46.790 $\pm$ 0.009 χ^2 /NDF: 1563199.9/34

In: 42.972 $\pm$ 0.008 χ^2 /NDF: 1180751.0/24

Out: 43.493 $\pm$ 0.008 χ^2 /NDF: 1039680.8/28

All: 43.232 $\pm$ 0.006 χ^2 /NDF: 2222482.7/53

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 χ^2/NDF : 14.2/15

Left Out: 0.004 ± 0.015 χ^2/NDF : 9.1/9

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.017 ± 0.015 χ^2/NDF : 14.2/8

Left: -0.007 ± 0.011 χ^2/NDF : 24.3/18

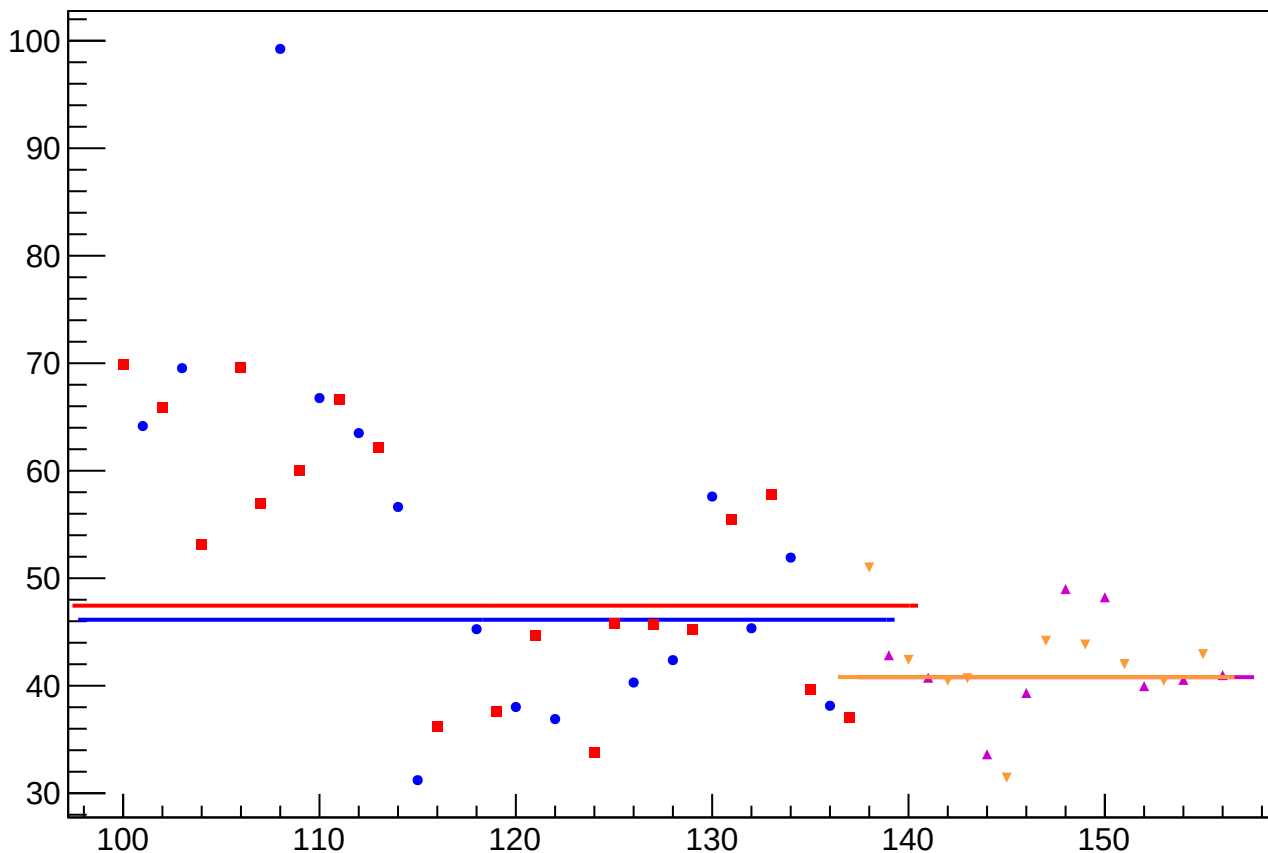
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.014 ± 0.011 χ^2/NDF : 28.6/24

Out: 0.001 ± 0.012 χ^2/NDF : 23.1/28

All: -0.007 ± 0.008 χ^2/NDF : 52.5/53

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: 40.805 $\pm$ 0.011 χ^2/NDF :224439.1/9

Right Out: 47.448 $\pm$ 0.013 χ^2/NDF : 654687.8/18

Left In: 40.796 $\pm$ 0.011 χ^2/NDF :172928.2/8

Left: 40.800 $\pm$ 0.007 χ^2/NDF : 397367.7/18

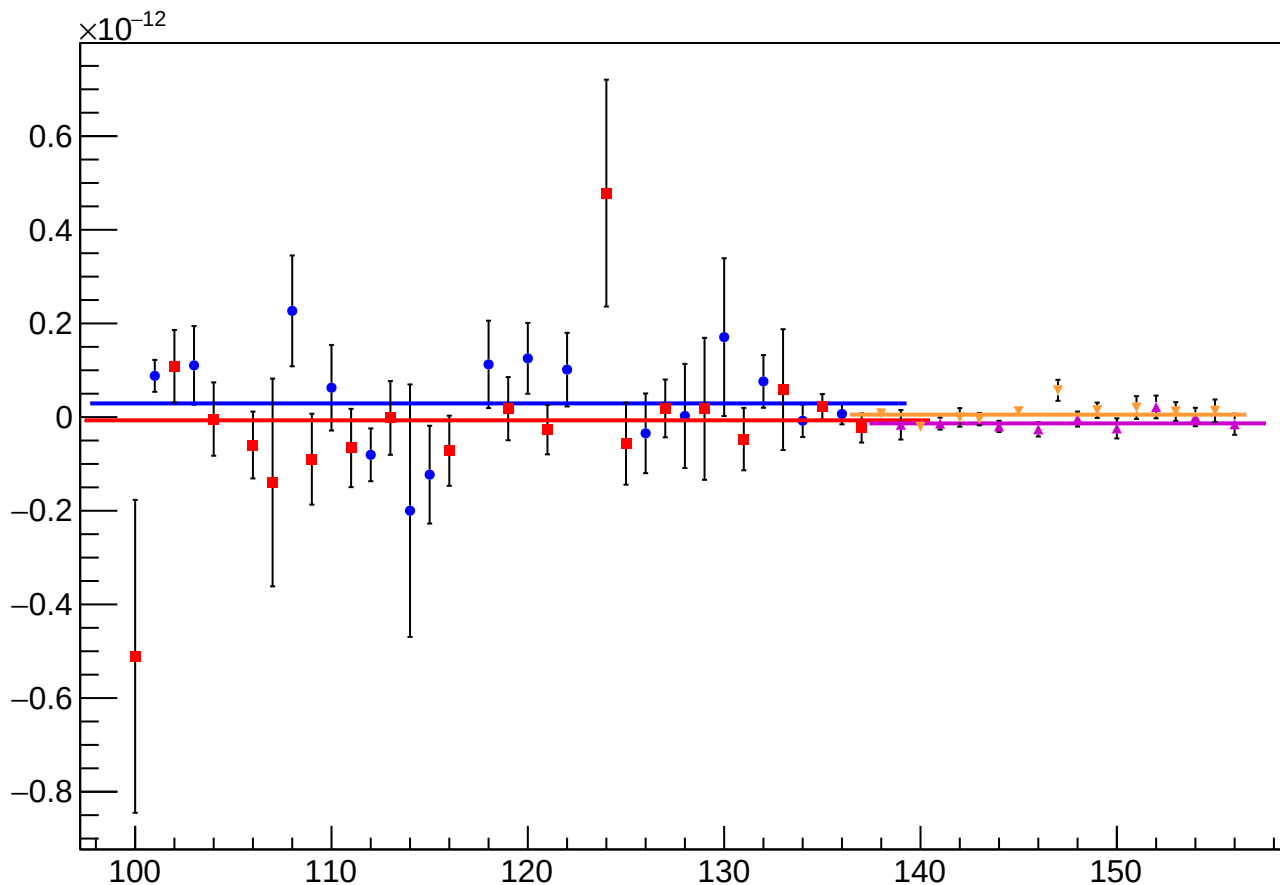
Right: 46.790 $\pm$ 0.009 χ^2/NDF : 1563199.9/34

In: 42.972 $\pm$ 0.008 χ^2/NDF :1180751.0/24

Out: 43.493 $\pm$ 0.008 χ^2/NDF :1039680.8/28

All: 43.232 $\pm$ 0.006 χ^2/NDF : 2222482.7/53

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 : 13.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.1/8

Left: -0.000+/-0.000 χ^2/NDF : 24.2/18

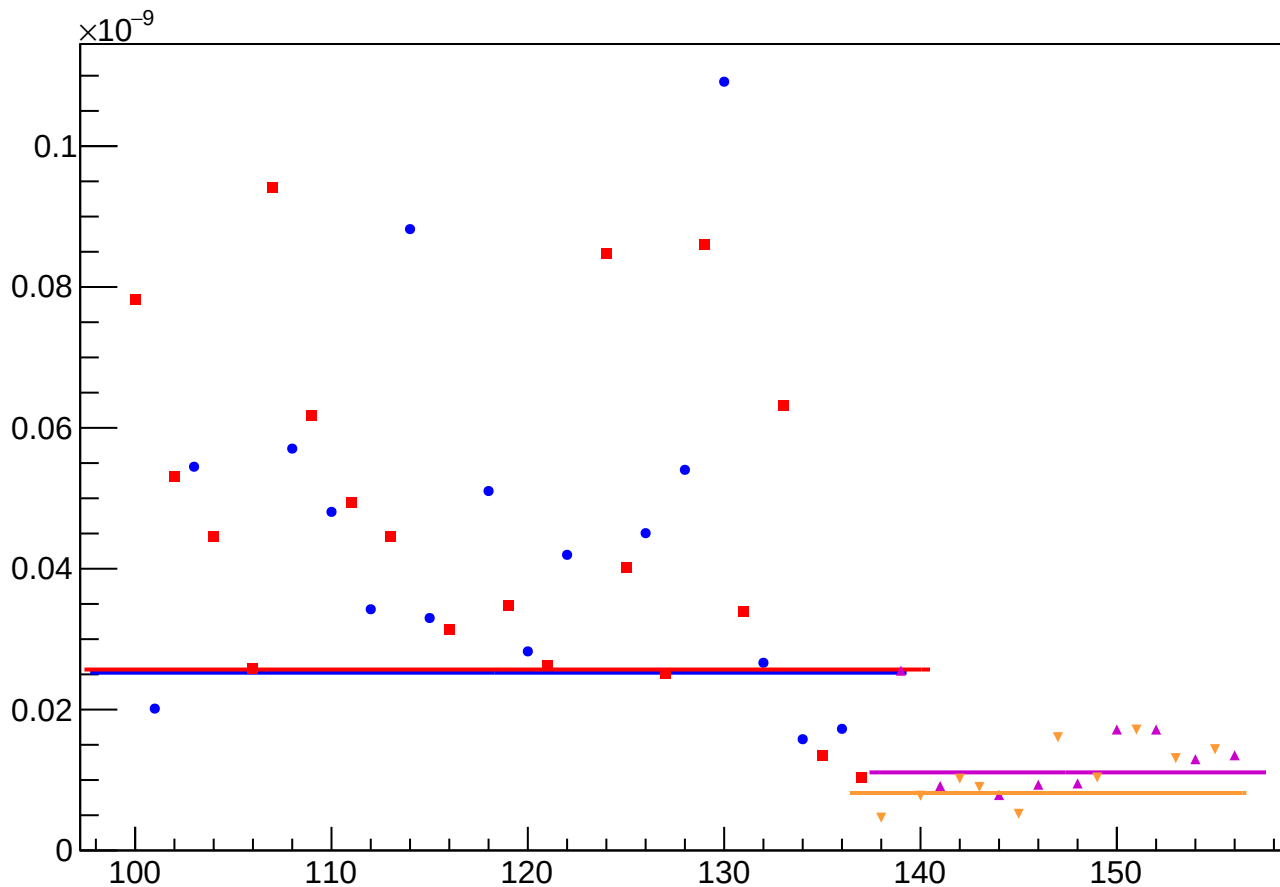
Right: 0.000+/-0.000 χ^2/NDF : 38.5/34

In: -0.000+/-0.000 χ^2/NDF : 33.5/24

Out: 0.000+/-0.000 χ^2/NDF : 28.4/28

All: -0.000+/-0.000 χ^2/NDF : 64.5/53

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 :1298544.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2790840.2/18

Left In: 0.000+/-0.000 χ^2/NDF :982038.4/8

Left: 0.000+/-0.000 χ^2/NDF : 2605138.7/18

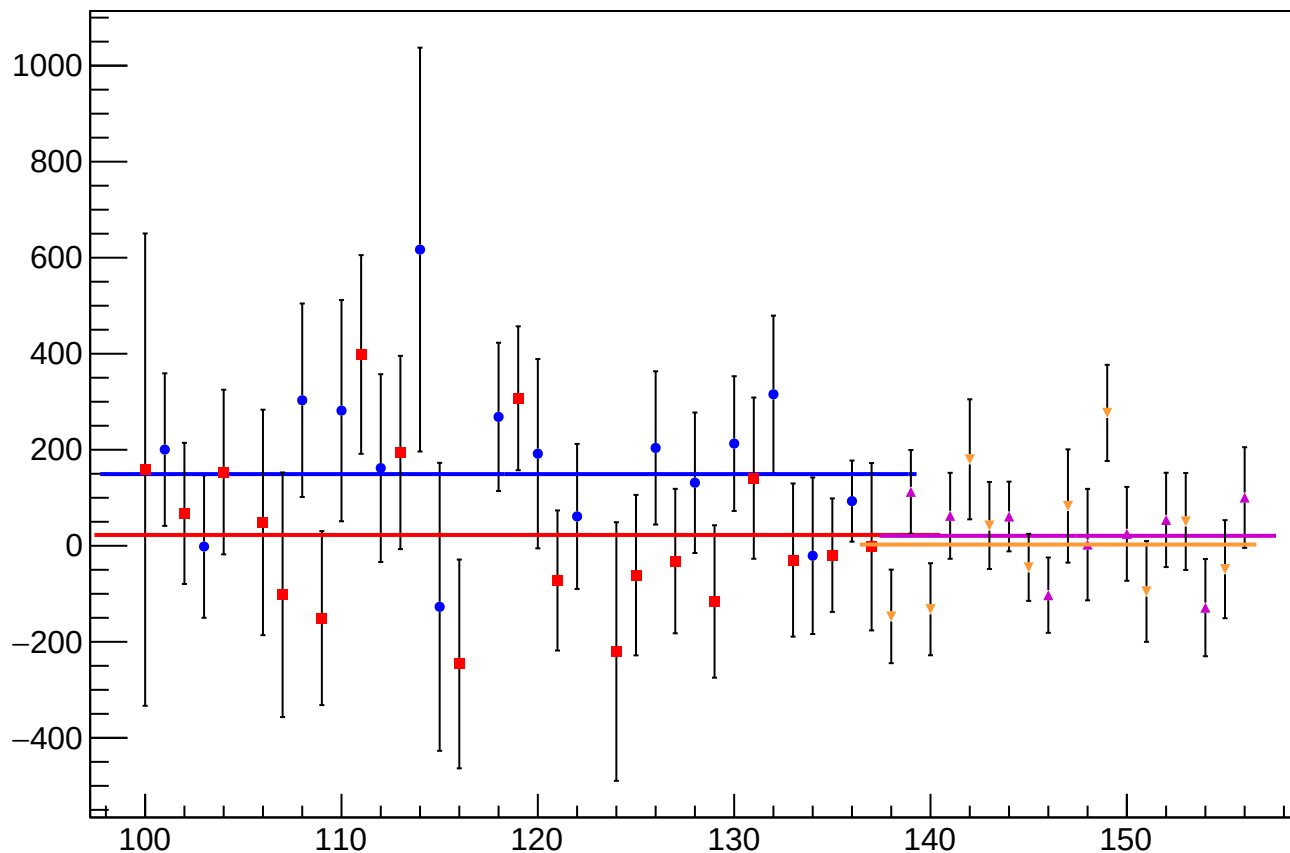
Right: 0.000+/-0.000 χ^2/NDF : 4909837.4/34

In: 0.000+/-0.000 χ^2/NDF :4961147.6/24

Out: 0.000+/-0.000 χ^2/NDF :6812533.0/28

All: 0.000+/-0.000 χ^2/NDF : 12314114.9/53

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: 2.601 $\pm$ 30.688 χ^2 /NDF:16.3/9

Right Out: 22.549 $\pm$ 40.100 χ^2 /NDF: 14.2/18

Left In: 20.750 $\pm$ 30.435 χ^2 /NDF:7.0/8

Left: 11.750 $\pm$ 21.610 χ^2 /NDF: 23.5/18

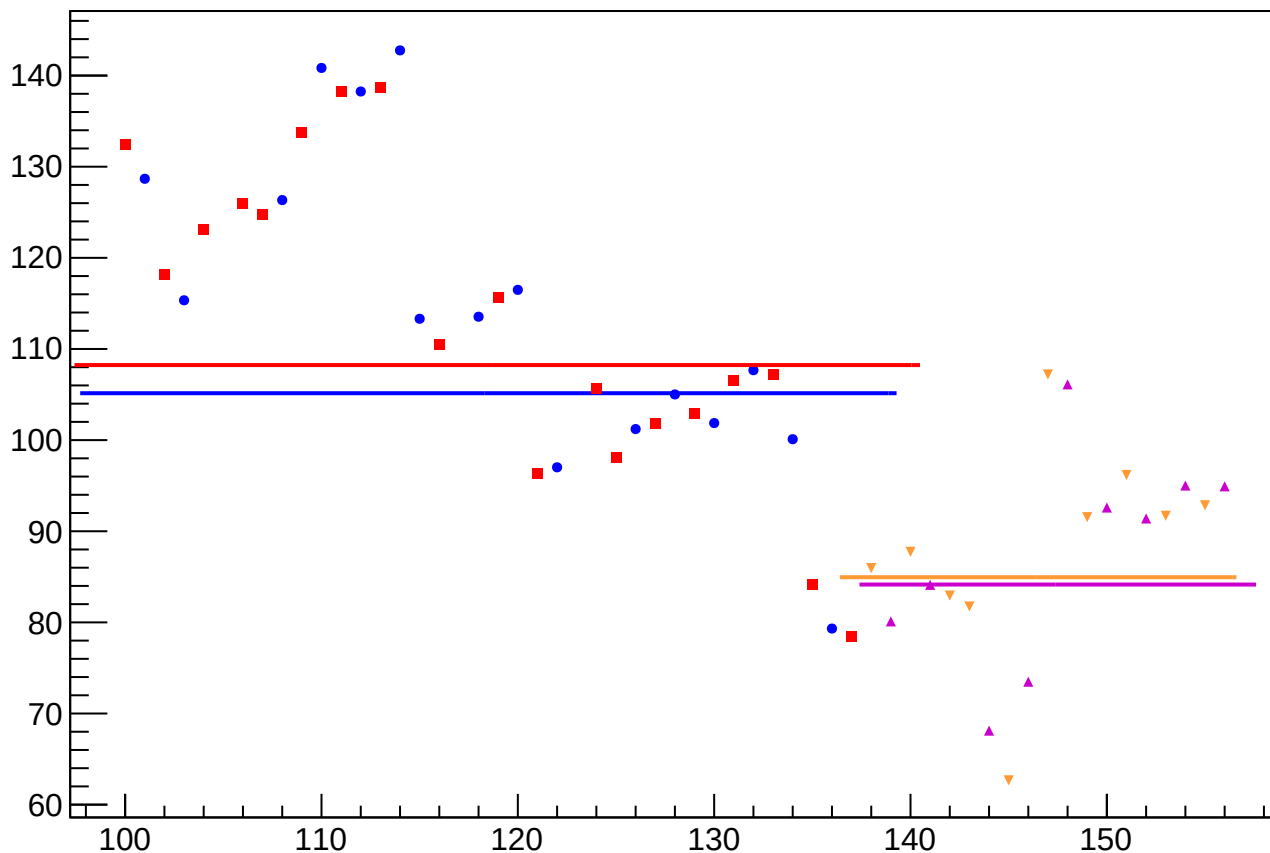
Right: 86.583 $\pm$ 28.208 χ^2 /NDF: 27.3/34

In: 68.355 $\pm$ 24.151 χ^2 /NDF:21.6/24

Out: 9.969 $\pm$ 24.371 χ^2 /NDF:30.7/28

All: 39.426 $\pm$ 17.154 χ^2 /NDF: 55.2/53

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: 84.956 $\pm$ 0.022 χ^2 /NDF:332628.7/9

Right Out: 108.233 $\pm$ 0.028 χ^2 /NDF: 349936.1/18

Left In: 84.151 $\pm$ 0.022 χ^2 /NDF:280327.1/8

Left: 84.550 $\pm$ 0.015 χ^2 /NDF: 613649.9/18

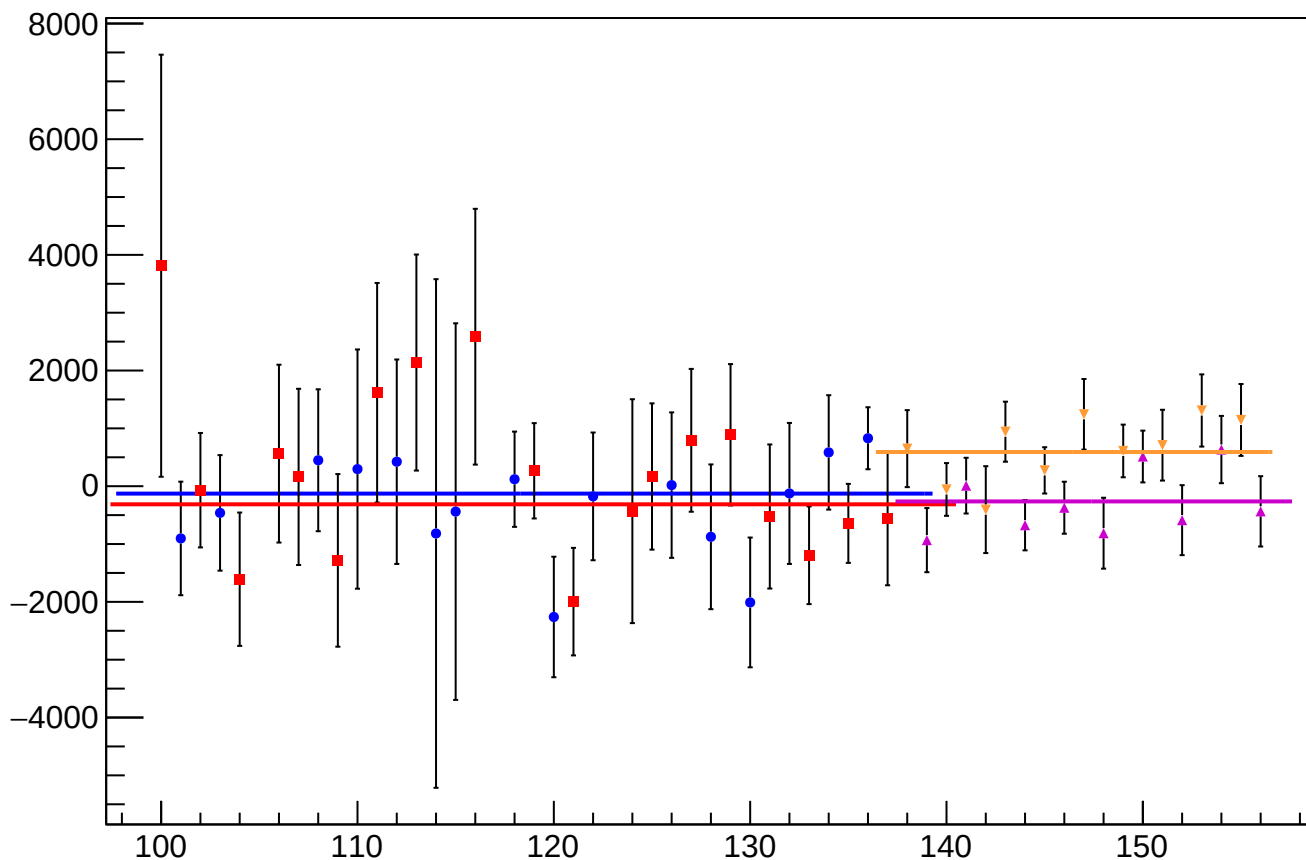
Right: 106.674 $\pm$ 0.020 χ^2 /NDF: 764328.3/34

In: 91.926 $\pm$ 0.017 χ^2 /NDF:1041175.5/24

Out: 93.553 $\pm$ 0.017 χ^2 /NDF:1107531.6/28

All: 92.732 $\pm$ 0.012 χ^2 /NDF: 2153207.0/53

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: 591.410 $\pm$ 171.172 χ^2 /NDF: 8.2/9

Right Out: -313.031 $\pm$ 270.131 χ^2 /NDF: 15.0/18

Left In: -263.169 $\pm$ 171.877 χ^2 /NDF: 9.3/8

Left: 165.878 $\pm$ 121.285 χ^2 /NDF: 29.9/18

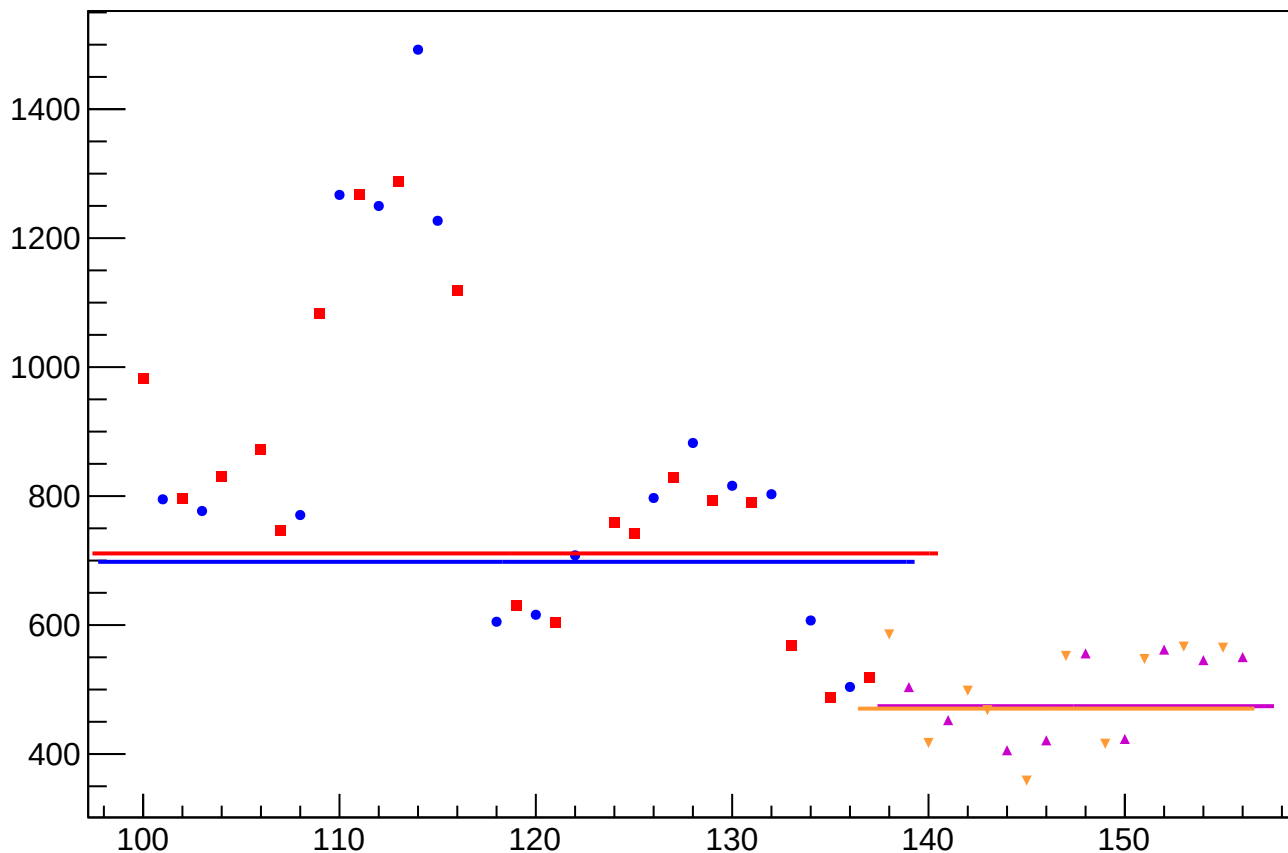
Right: -220.022 $\pm$ 190.472 χ^2 /NDF: 27.5/34

In: -223.919 $\pm$ 144.776 χ^2 /NDF: 21.8/24

Out: 332.294 $\pm$ 144.588 χ^2 /NDF: 31.2/28

All: 54.549 $\pm$ 102.305 χ^2 /NDF: 60.3/53

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: 470.430+/-0.121 χ^2/NDF : 435226.1/9

Right Out: 711.088+/-0.191 χ^2/NDF : 1035118.4/18

Left In: 474.221+/-0.122 χ^2/NDF : 252015.6/8

Left: 472.318+/-0.086 χ^2/NDF : 687730.2/18

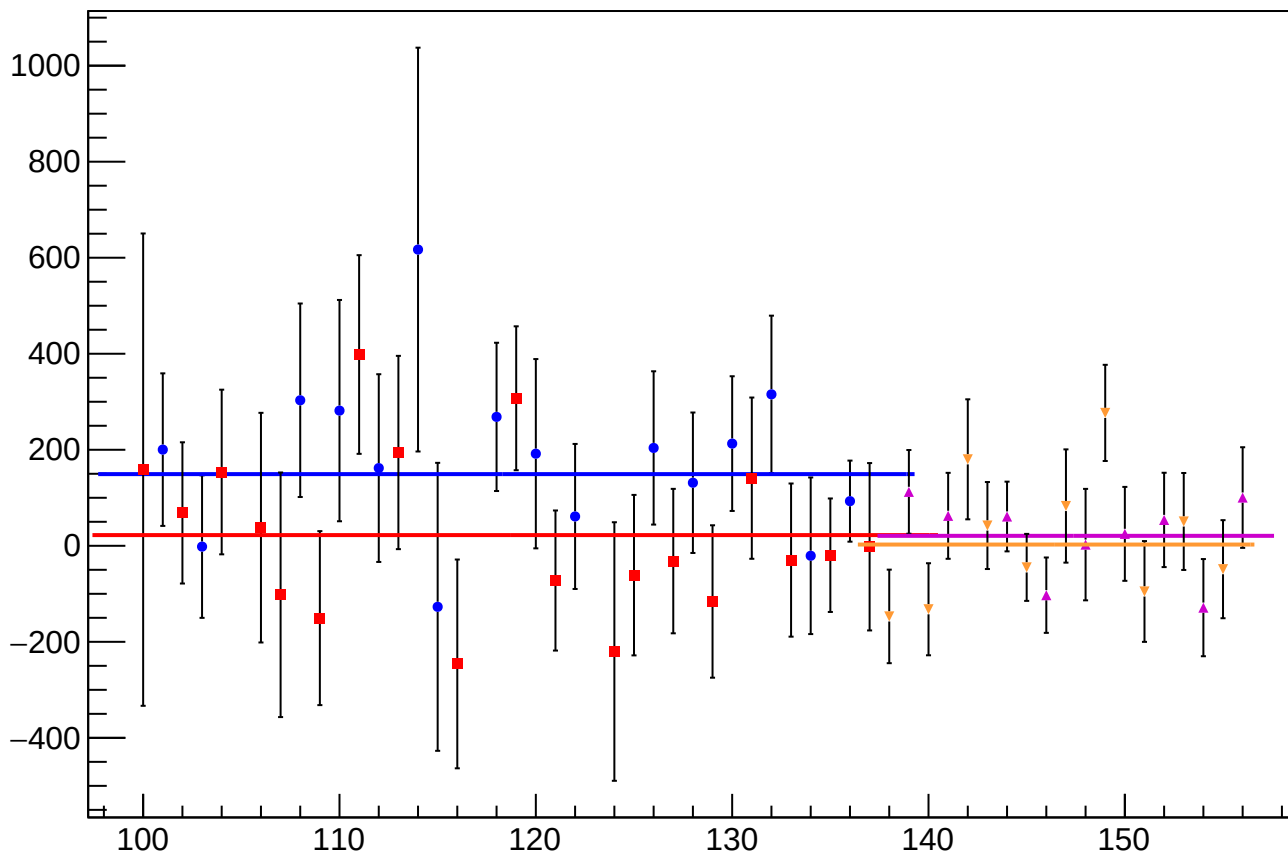
Right: 704.534+/-0.135 χ^2/NDF : 1950310.9/34

In: 539.244+/-0.102 χ^2/NDF : 2150204.9/24

Out: 539.377+/-0.102 χ^2/NDF : 2602950.2/28

All: 539.311+/-0.072 χ^2/NDF : 4753156.0/53

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: 2.597 $\pm$ 30.688 χ^2 /NDF:16.3/9

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 20.750 $\pm$ 30.435 χ^2 /NDF:7.0/8

Left: 11.749 $\pm$ 21.610 χ^2 /NDF: 23.5/18

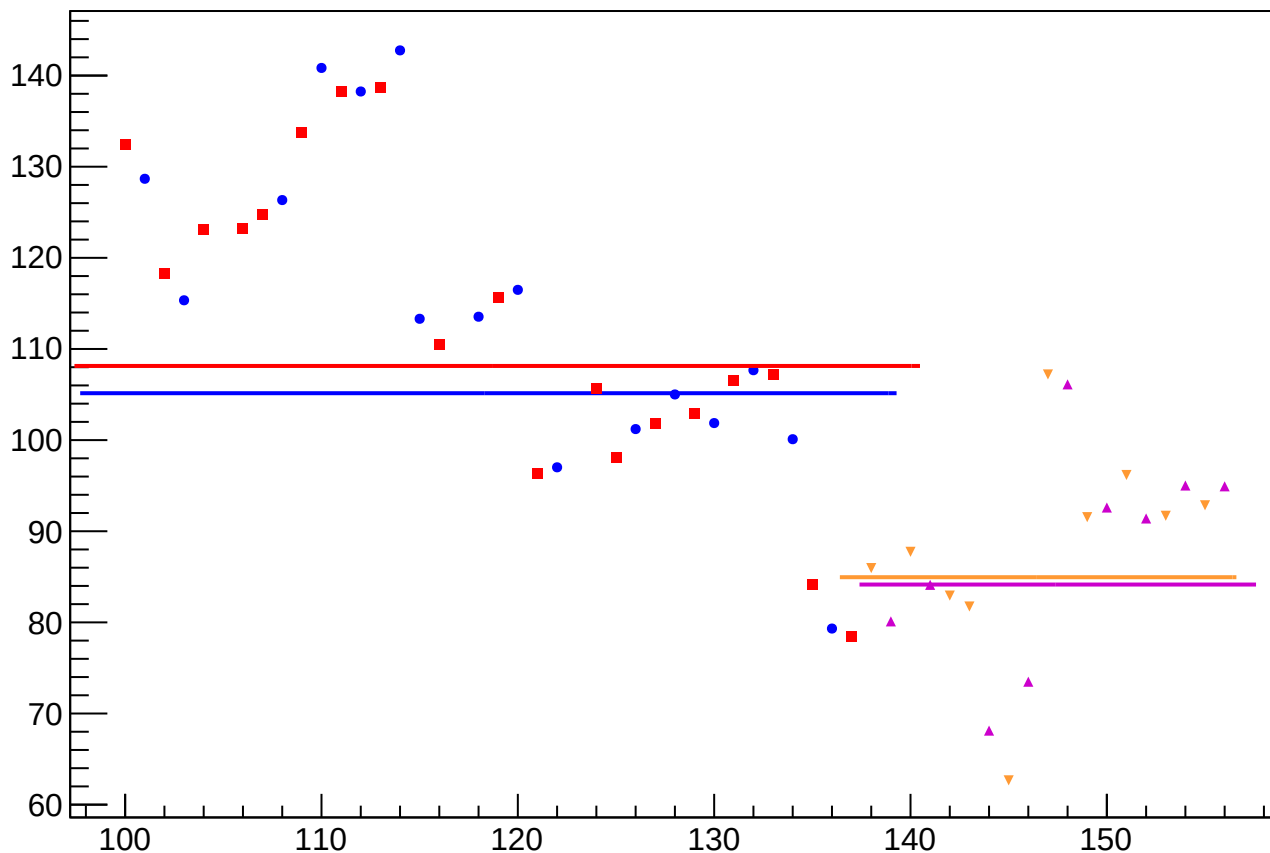
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 68.352 $\pm$ 24.151 χ^2 /NDF:21.6/24

Out: 9.868 $\pm$ 24.376 χ^2 /NDF:30.7/28

All: 39.380 $\pm$ 17.156 χ^2 /NDF: 55.2/53

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: 84.956 $\pm$ 0.022 χ^2 /NDF:332628.7/9

Right Out: 108.136 $\pm$ 0.028 χ^2 /NDF: 346321.9/18

Left In: 84.151 $\pm$ 0.022 χ^2 /NDF:280327.1/8

Left: 84.550 $\pm$ 0.015 χ^2 /NDF: 613649.9/18

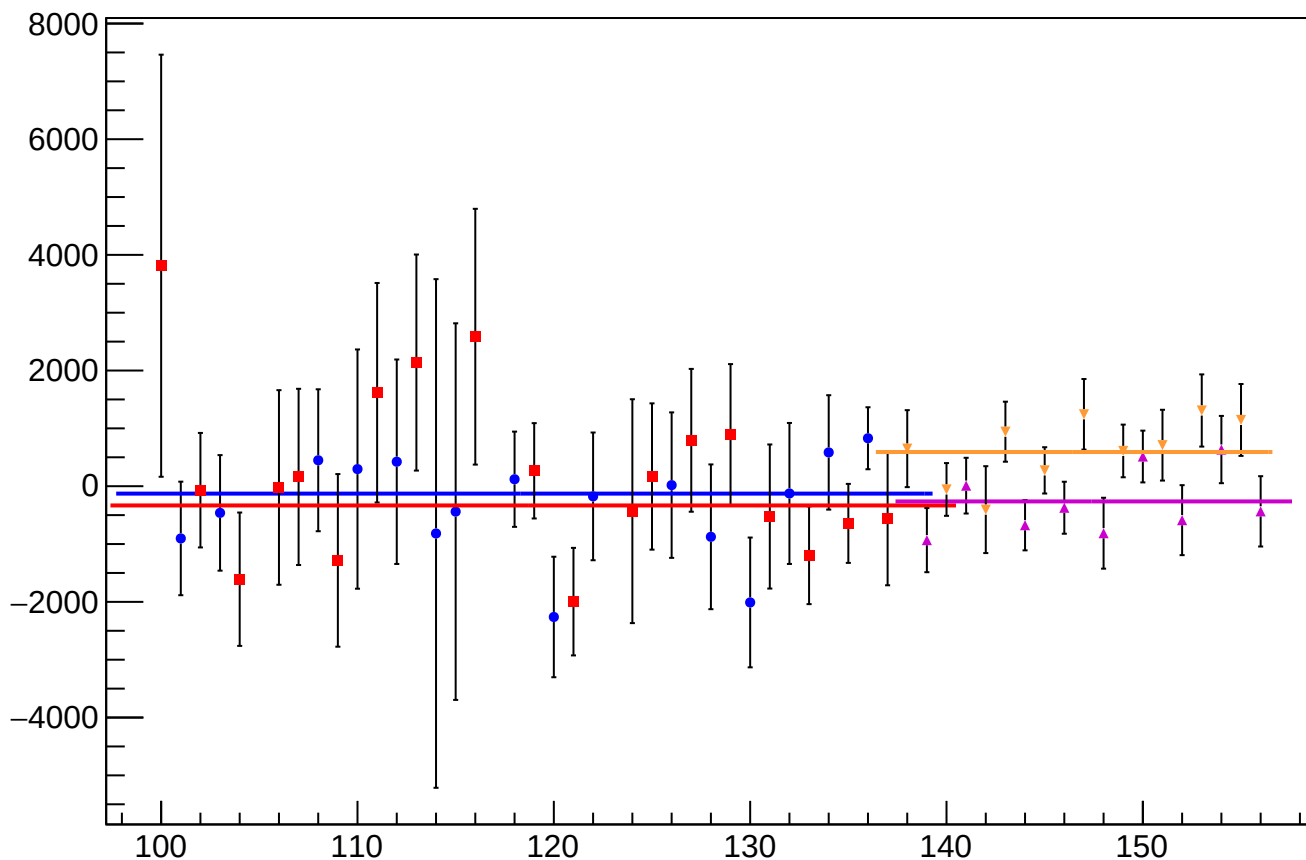
Right: 106.625 $\pm$ 0.020 χ^2 /NDF: 760343.1/34

In: 91.926 $\pm$ 0.017 χ^2 /NDF:1041175.8/24

Out: 93.512 $\pm$ 0.017 χ^2 /NDF:1100112.4/28

All: 92.712 $\pm$ 0.012 χ^2 /NDF: 2145560.4/53

asym_sam_26_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 ± 268.611 $\chi^2/\text{NDF}: 12.3/15$

Left Out: 591.411 ± 171.172 $\chi^2/\text{NDF}: 8.2/9$

Right Out: -332.665 ± 270.835 $\chi^2/\text{NDF}: 14.7/18$

Left In: -263.168 ± 171.877 $\chi^2/\text{NDF}: 9.3/8$

Left: 165.879 ± 121.285 $\chi^2/\text{NDF}: 29.9/18$

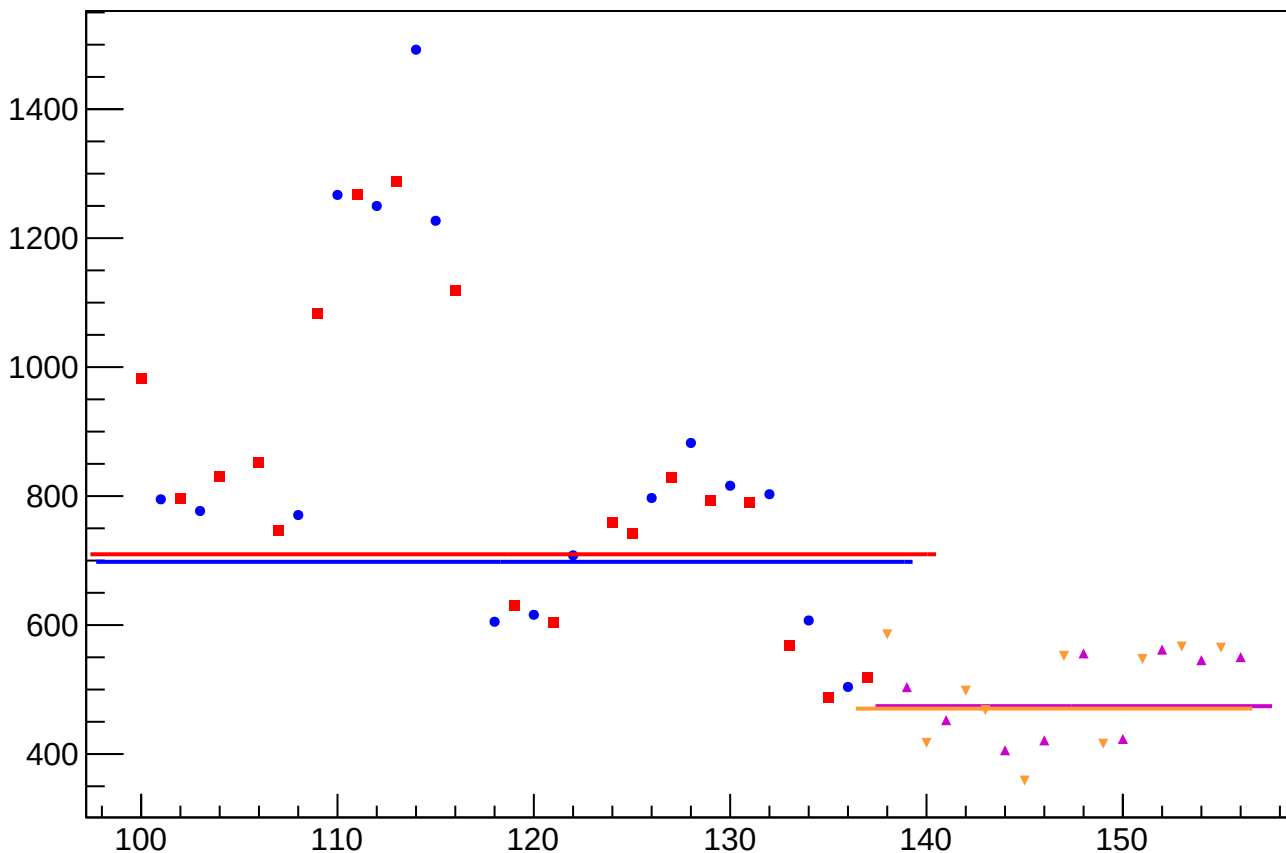
Right: -229.512 ± 190.718 $\chi^2/\text{NDF}: 27.3/34$

In: -223.916 ± 144.776 $\chi^2/\text{NDF}: 21.8/24$

Out: 327.652 ± 144.695 $\chi^2/\text{NDF}: 31.2/28$

All: 52.021 ± 102.343 $\chi^2/\text{NDF}: 60.2/53$

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: 470.430+/-0.121 χ^2/NDF : 435227.2/9

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 474.221+/-0.122 χ^2/NDF : 252013.5/8

Left: 472.318+/-0.086 χ^2/NDF : 687729.2/18

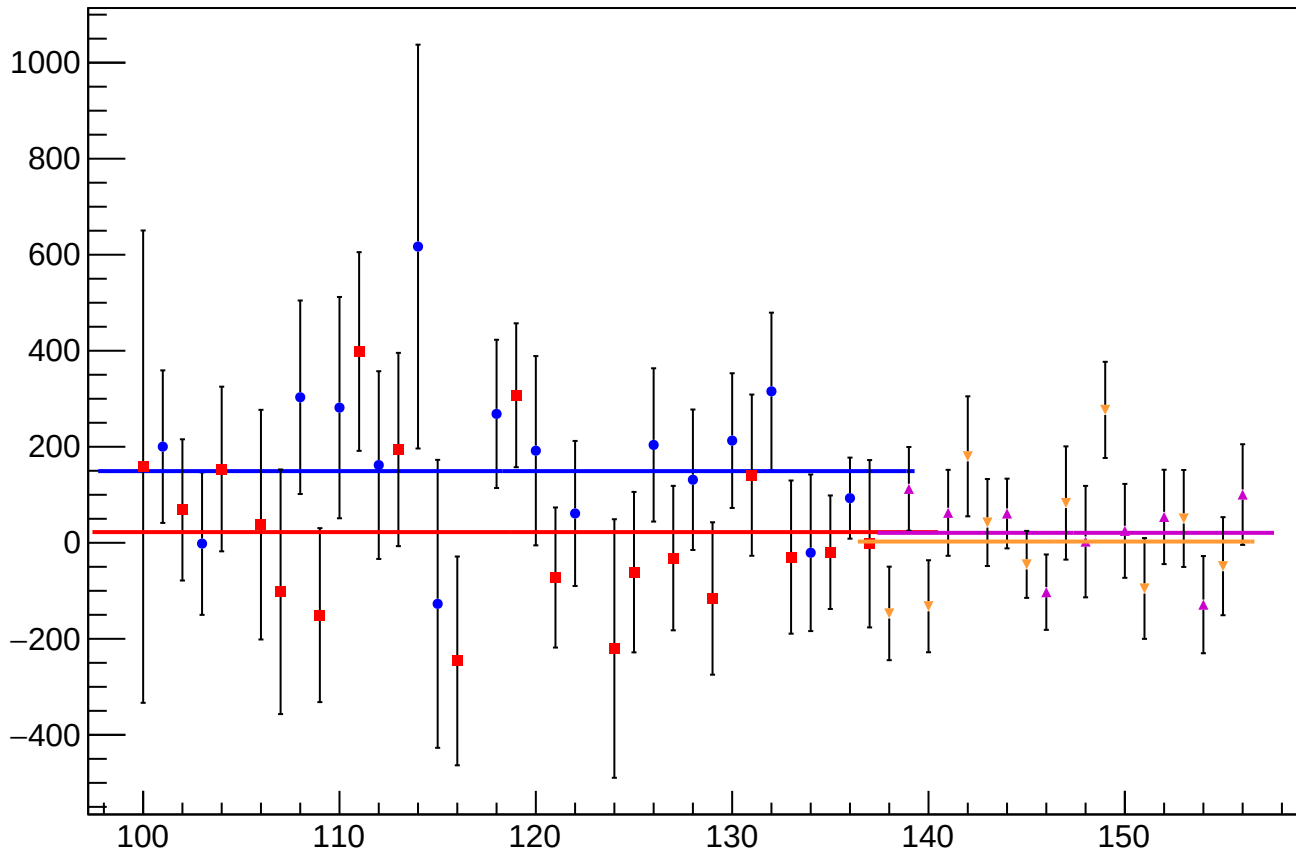
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 539.244+/-0.102 χ^2/NDF : 2150215.3/24

Out: 538.739+/-0.102 χ^2/NDF : 2578216.8/28

All: 538.991+/-0.072 χ^2/NDF : 4728444.3/53

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: 2.597 $\pm$ 30.688 χ^2 /NDF:16.3/9

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 20.750 $\pm$ 30.435 χ^2 /NDF:7.0/8

Left: 11.749 $\pm$ 21.610 χ^2 /NDF: 23.5/18

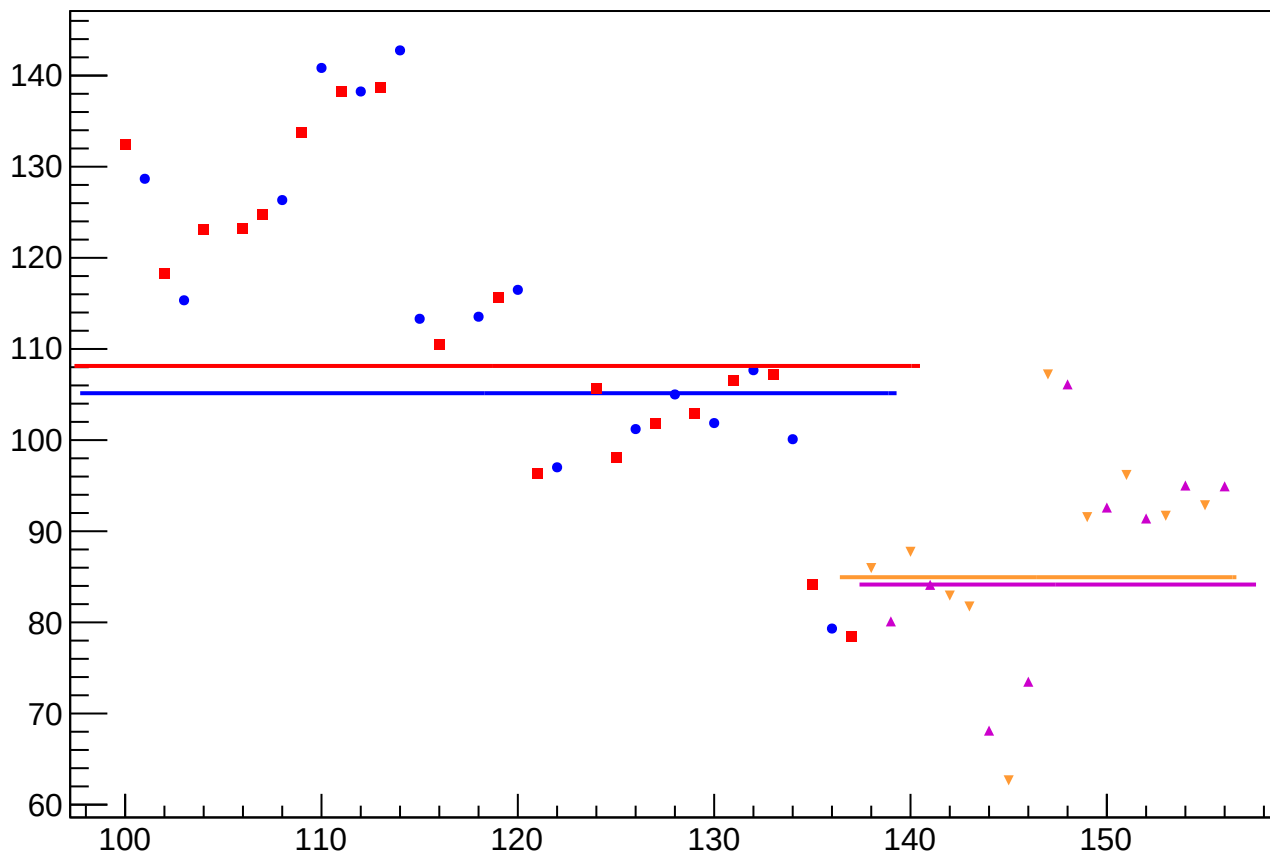
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 68.352 $\pm$ 24.151 χ^2 /NDF:21.6/24

Out: 9.868 $\pm$ 24.376 χ^2 /NDF:30.7/28

All: 39.380 $\pm$ 17.156 χ^2 /NDF: 55.2/53

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: 84.956 $\pm$ 0.022 χ^2/NDF : 332628.7/9

Right Out: 108.136 $\pm$ 0.028 χ^2/NDF : 346321.9/18

Left In: 84.151 $\pm$ 0.022 χ^2/NDF : 280327.1/8

Left: 84.550 $\pm$ 0.015 χ^2/NDF : 613649.9/18

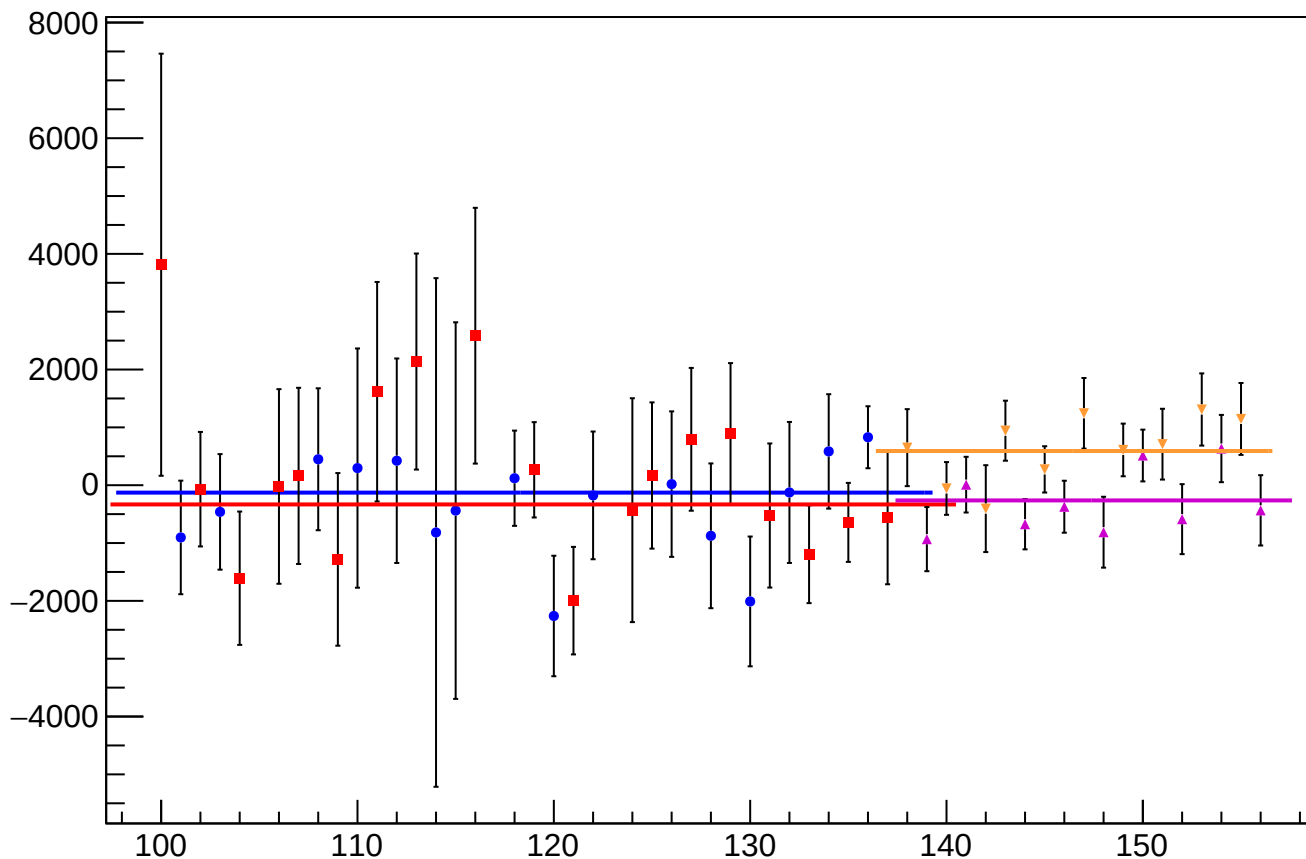
Right: 106.625 $\pm$ 0.020 χ^2/NDF : 760343.1/34

In: 91.926 $\pm$ 0.017 χ^2/NDF : 1041175.8/24

Out: 93.512 $\pm$ 0.017 χ^2/NDF : 1100112.4/28

All: 92.712 $\pm$ 0.012 χ^2/NDF : 2145560.4/53

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 ± 268.611 $\chi^2/\text{NDF}: 12.3/15$

Left Out: 591.411 ± 171.172 $\chi^2/\text{NDF}: 8.2/9$

Right Out: -332.665 ± 270.835 $\chi^2/\text{NDF}: 14.7/18$

Left In: -263.168 ± 171.877 $\chi^2/\text{NDF}: 9.3/8$

Left: 165.879 ± 121.285 $\chi^2/\text{NDF}: 29.9/18$

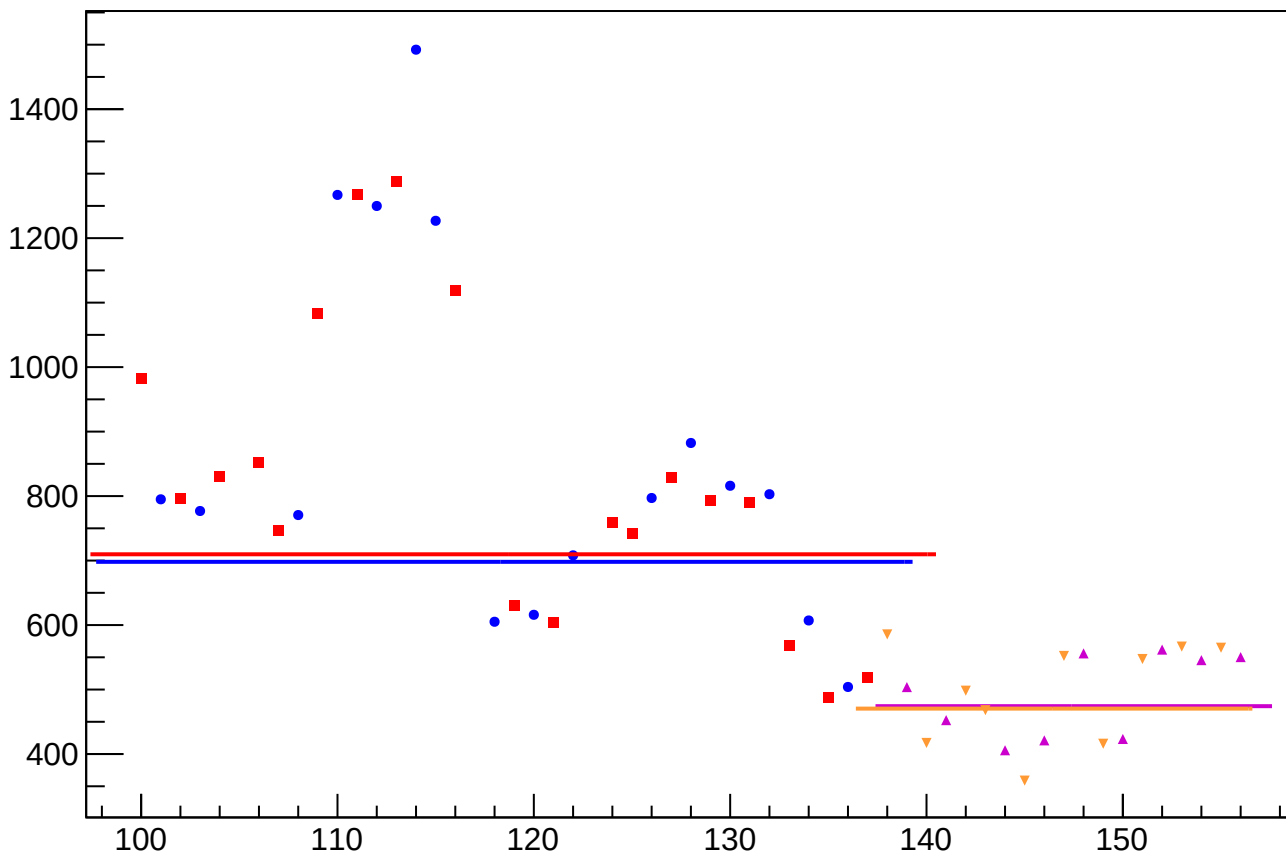
Right: -229.512 ± 190.718 $\chi^2/\text{NDF}: 27.3/34$

In: -223.916 ± 144.776 $\chi^2/\text{NDF}: 21.8/24$

Out: 327.652 ± 144.695 $\chi^2/\text{NDF}: 31.2/28$

All: 52.021 ± 102.343 $\chi^2/\text{NDF}: 60.2/53$

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: 470.430+/-0.121 χ^2/NDF : 435227.2/9

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 474.221+/-0.122 χ^2/NDF : 252013.5/8

Left: 472.318+/-0.086 χ^2/NDF : 687729.2/18

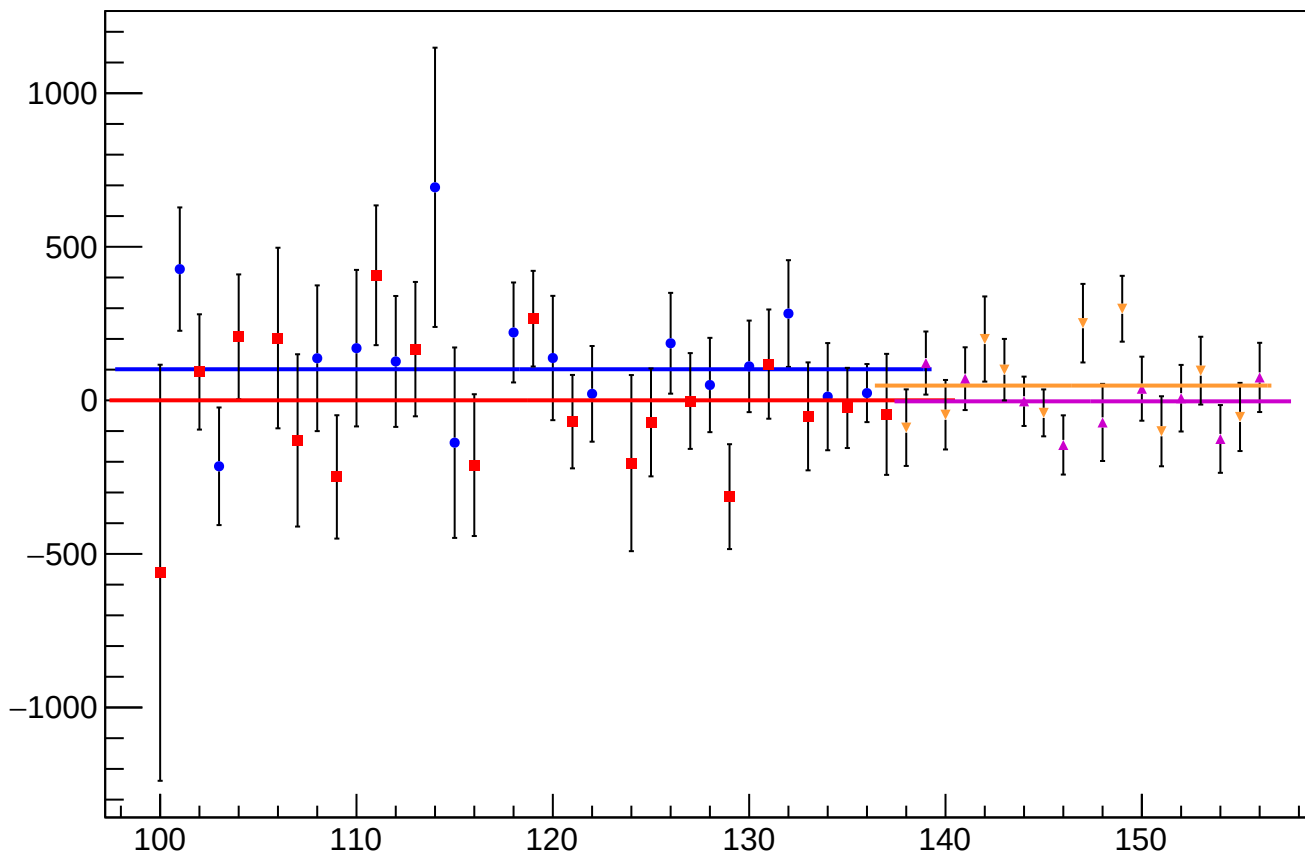
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 539.244+/-0.102 χ^2/NDF : 2150215.3/24

Out: 538.739+/-0.102 χ^2/NDF : 2578216.8/28

All: 538.991+/-0.072 χ^2/NDF : 4728444.3/53

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: 48.122 $\pm$ 34.222 χ^2 /NDF:15.4/9

Right Out: 0.125 $\pm$ 44.035 χ^2 /NDF: 16.6/18

Left In: -3.196 $\pm$ 34.210 χ^2 /NDF:6.3/8

Left: 22.454 $\pm$ 24.195 χ^2 /NDF: 22.9/18

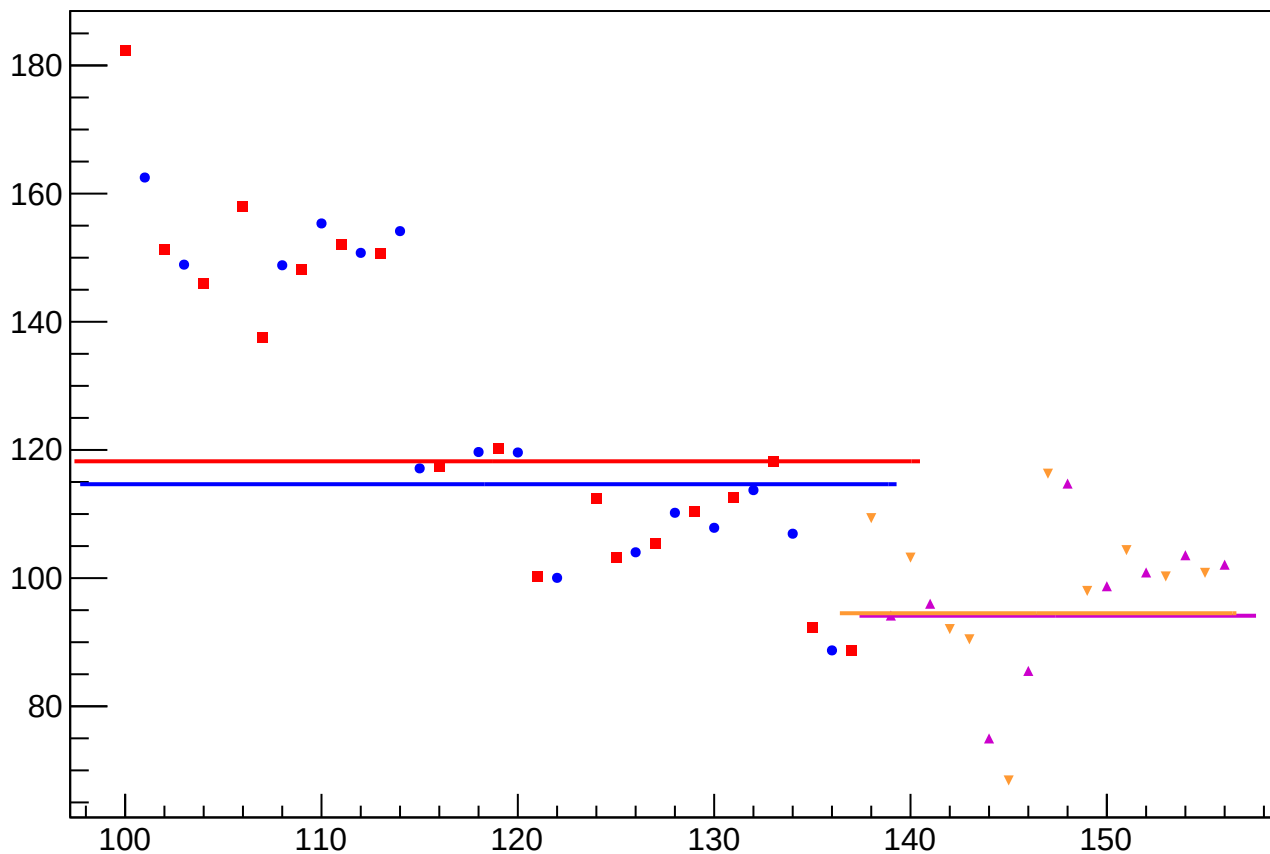
Right: 51.310 $\pm$ 30.950 χ^2 /NDF: 30.3/34

In: 36.718 $\pm$ 26.893 χ^2 /NDF:20.9/24

Out: 30.049 $\pm$ 27.022 χ^2 /NDF:32.8/28

All: 33.399 $\pm$ 19.061 χ^2 /NDF: 53.7/53

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: 94.521 $\pm$ 0.024 χ^2 /NDF: 364222.9/9

Right Out: 118.230 $\pm$ 0.031 χ^2 /NDF: 483407.4/18

Left In: 94.131 $\pm$ 0.024 χ^2 /NDF: 220536.9/8

Left: 94.326 $\pm$ 0.017 χ^2 /NDF: 584889.5/18

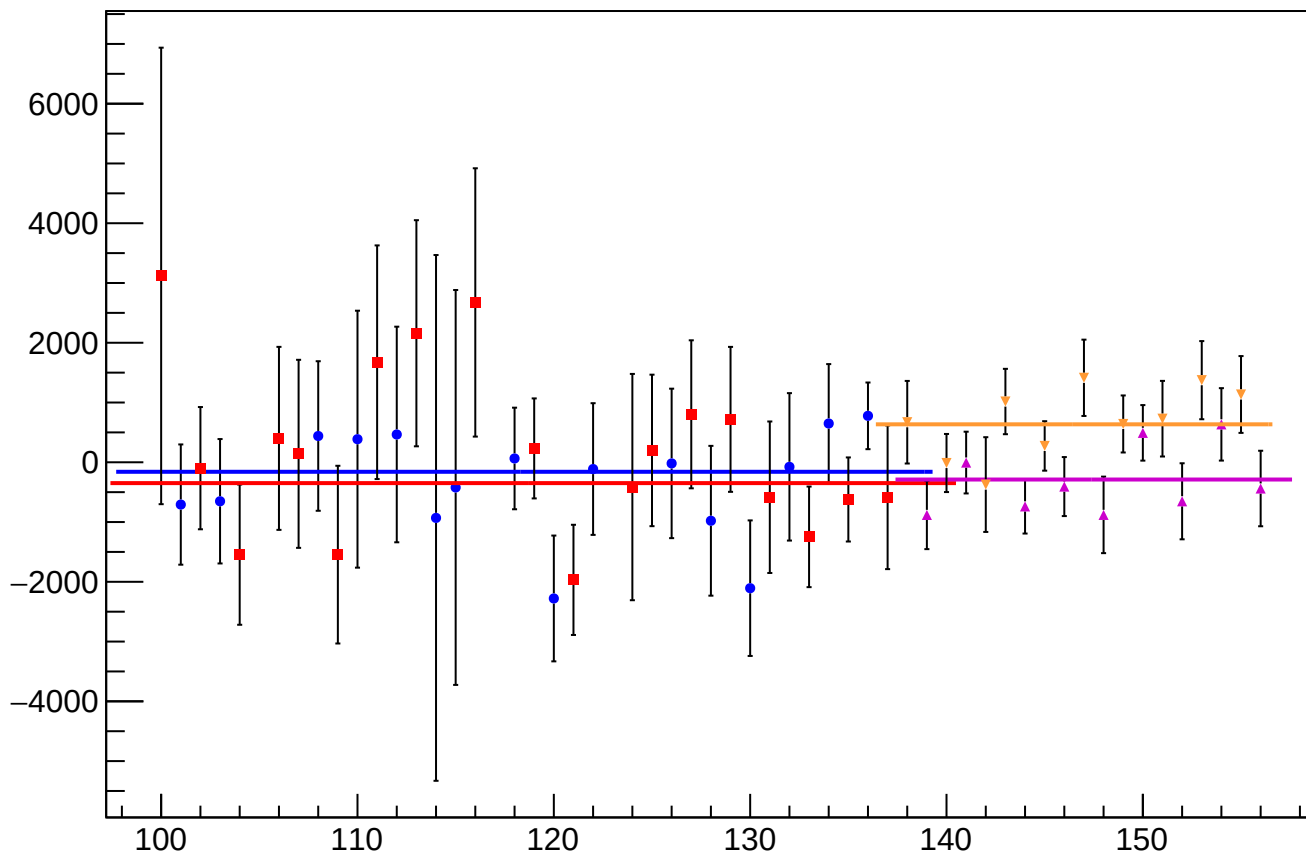
Right: 116.421 $\pm$ 0.022 χ^2 /NDF: 1022057.2/34

In: 101.972 $\pm$ 0.019 χ^2 /NDF: 1027503.6/24

Out: 103.449 $\pm$ 0.019 χ^2 /NDF: 1209112.9/28

All: 102.707 $\pm$ 0.013 χ^2 /NDF: 2239618.0/53

asym_sam_26_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.110 ± 274.558 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 635.164 ± 179.012 $\chi^2/\text{NDF}: 8.0/9$

Right Out: -348.528 ± 273.595 $\chi^2/\text{NDF}: 14.3/18$

Left In: -288.567 ± 181.012 $\chi^2/\text{NDF}: 8.8/8$

Left: 178.430 ± 127.282 $\chi^2/\text{NDF}: 30.0/18$

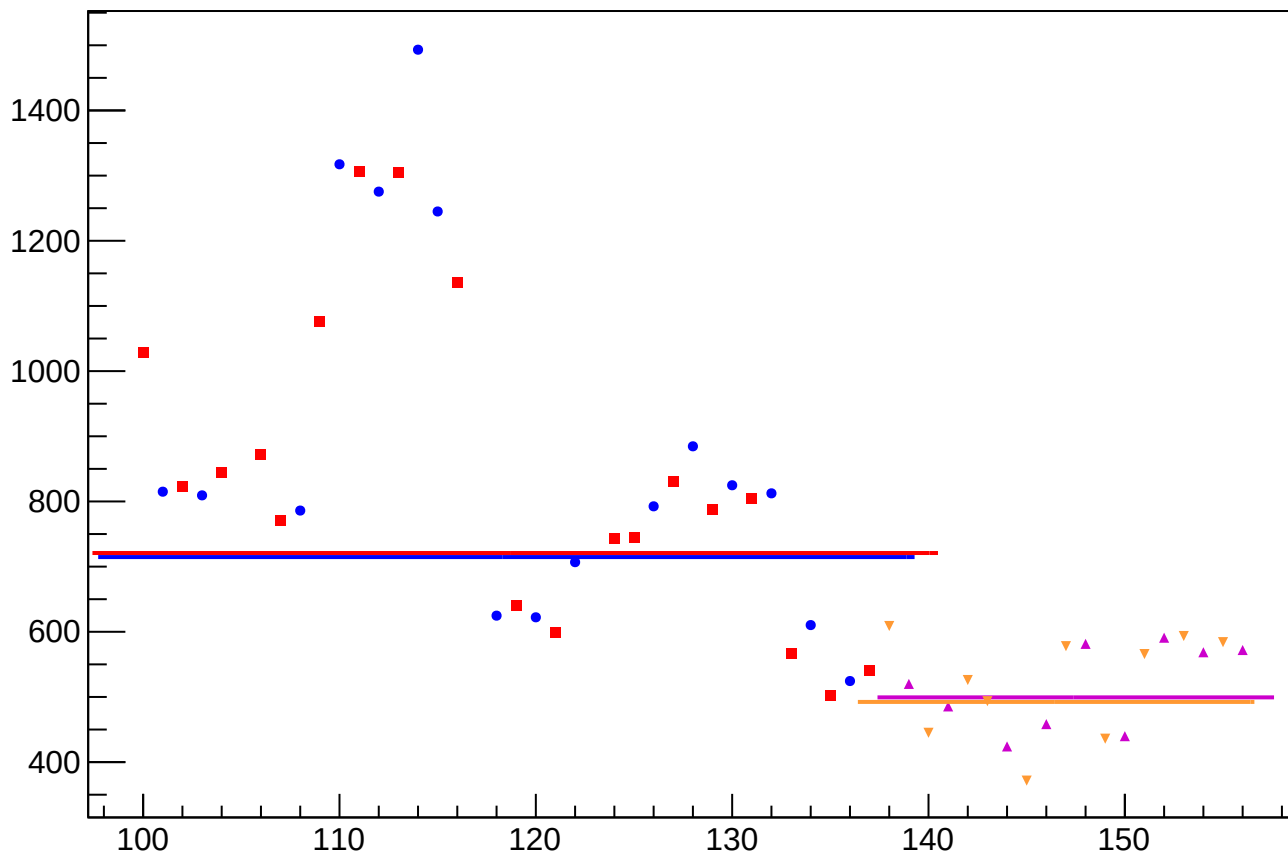
Right: -254.152 ± 193.800 $\chi^2/\text{NDF}: 26.5/34$

In: -249.346 ± 151.124 $\chi^2/\text{NDF}: 20.9/24$

Out: 340.283 ± 149.797 $\chi^2/\text{NDF}: 31.4/28$

All: 48.069 ± 106.388 $\chi^2/\text{NDF}: 60.0/53$

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: 492.382 $\pm$ 0.127 χ^2 /NDF:429153.6/9

Right Out: 720.885 $\pm$ 0.193 χ^2 /NDF: 1018435.1/18

Left In: 499.357 $\pm$ 0.128 χ^2 /NDF:232525.4/8

Left: 495.831 $\pm$ 0.090 χ^2 /NDF: 663180.3/18

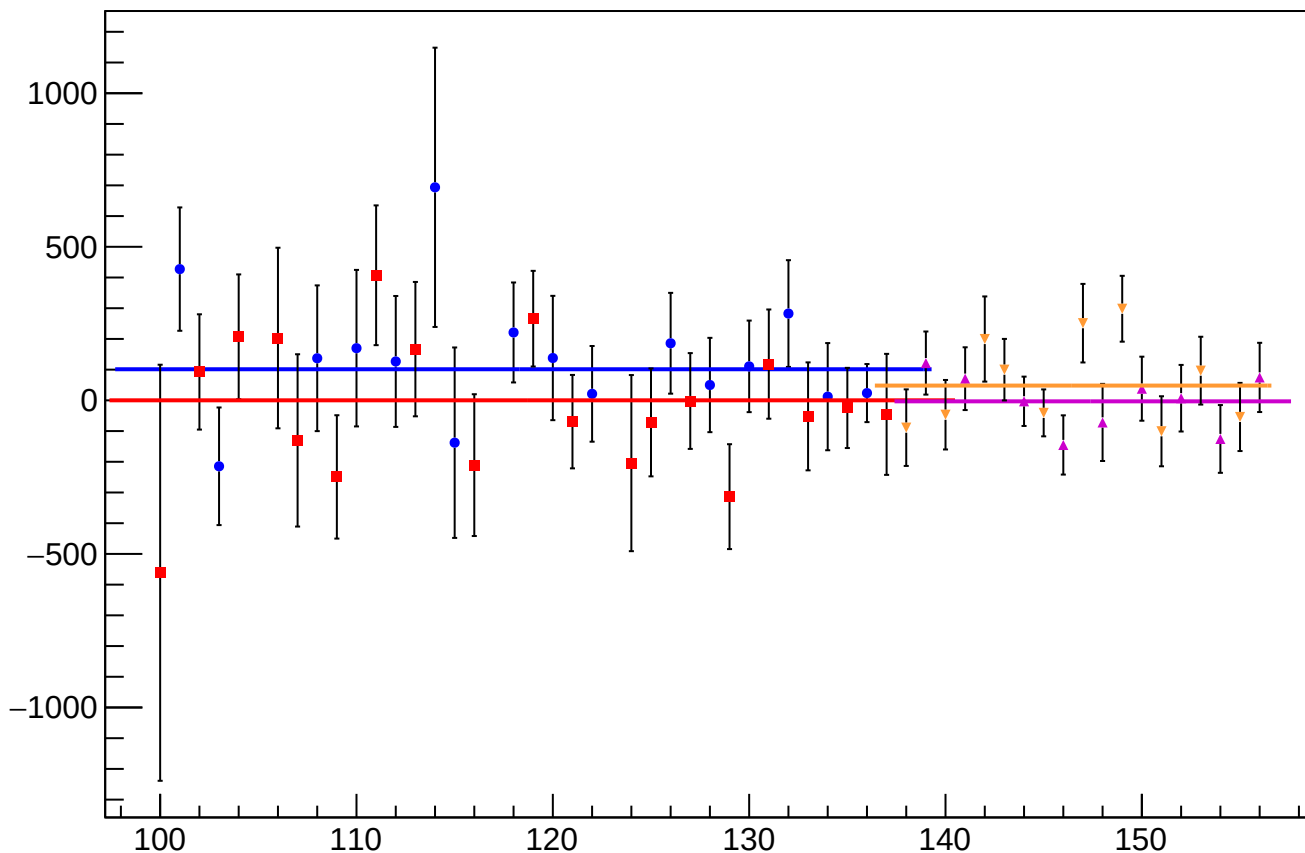
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895167.0/34

In: 564.589 $\pm$ 0.107 χ^2 /NDF:1966054.1/24

Out: 560.880 $\pm$ 0.106 χ^2 /NDF:2424455.7/28

All: 562.719 $\pm$ 0.075 χ^2 /NDF: 4391117.5/53

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: 48.121 $\pm$ 34.222 χ^2 /NDF:15.4/9

Right Out: 0.125 $\pm$ 44.035 χ^2 /NDF: 16.6/18

Left In: -3.197 $\pm$ 34.210 χ^2 /NDF:6.3/8

Left: 22.453 $\pm$ 24.195 χ^2 /NDF: 22.9/18

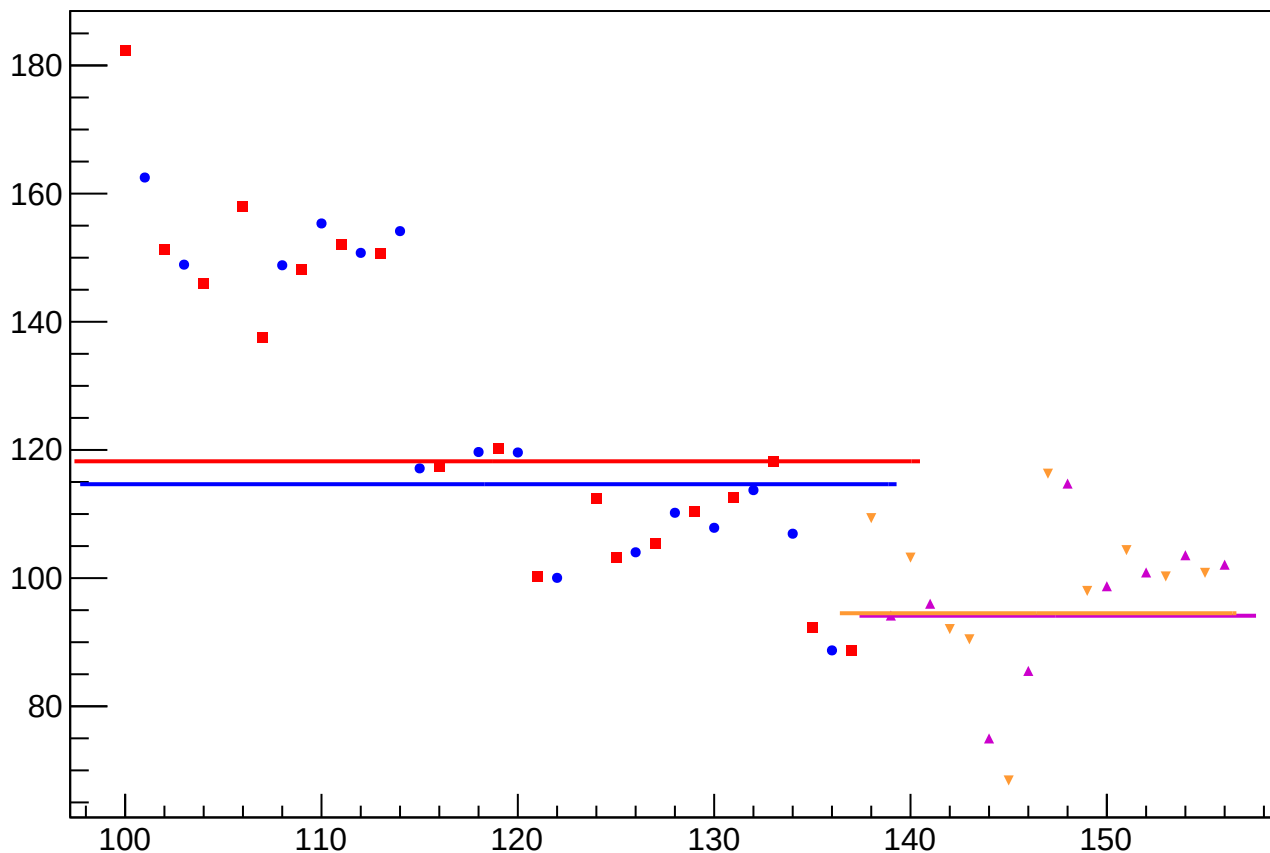
Right: 51.308 $\pm$ 30.950 χ^2 /NDF: 30.3/34

In: 36.717 $\pm$ 26.893 χ^2 /NDF:20.9/24

Out: 30.048 $\pm$ 27.022 χ^2 /NDF:32.8/28

All: 33.398 $\pm$ 19.061 χ^2 /NDF: 53.7/53

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: 94.521 $\pm$ 0.024 χ^2 /NDF: 364228.1/9

Right Out: 118.230 $\pm$ 0.031 χ^2 /NDF: 483401.1/18

Left In: 94.131 $\pm$ 0.024 χ^2 /NDF: 220536.4/8

Left: 94.326 $\pm$ 0.017 χ^2 /NDF: 584894.1/18

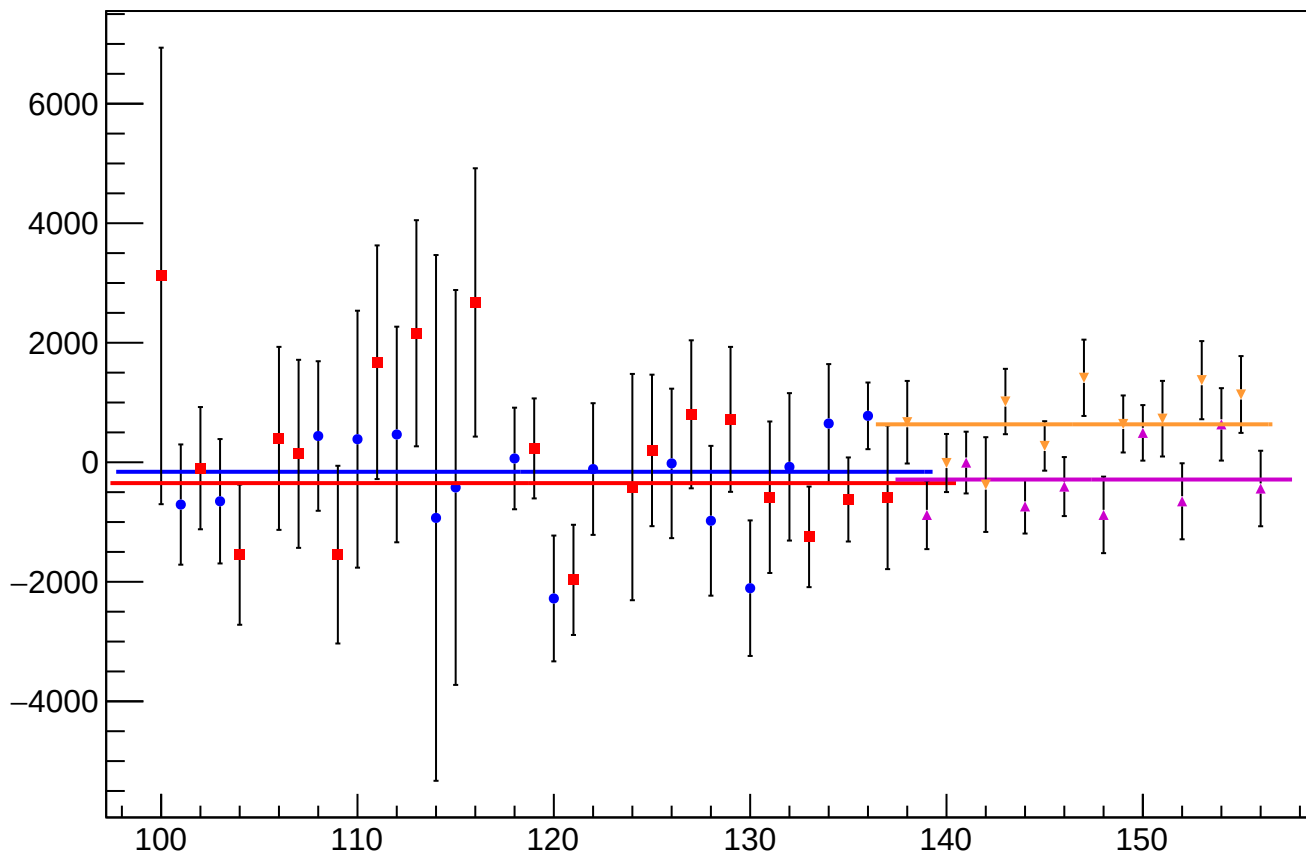
Right: 116.421 $\pm$ 0.022 χ^2 /NDF: 1022036.9/34

In: 101.972 $\pm$ 0.019 χ^2 /NDF: 1027492.8/24

Out: 103.449 $\pm$ 0.019 χ^2 /NDF: 1209111.6/28

All: 102.707 $\pm$ 0.013 χ^2 /NDF: 2239605.4/53

asym_sam_26_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.112 ± 274.558 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 635.163 ± 179.012 $\chi^2/\text{NDF}: 8.0/9$

Right Out: -348.528 ± 273.595 $\chi^2/\text{NDF}: 14.3/18$

Left In: -288.568 ± 181.012 $\chi^2/\text{NDF}: 8.8/8$

Left: 178.429 ± 127.282 $\chi^2/\text{NDF}: 30.0/18$

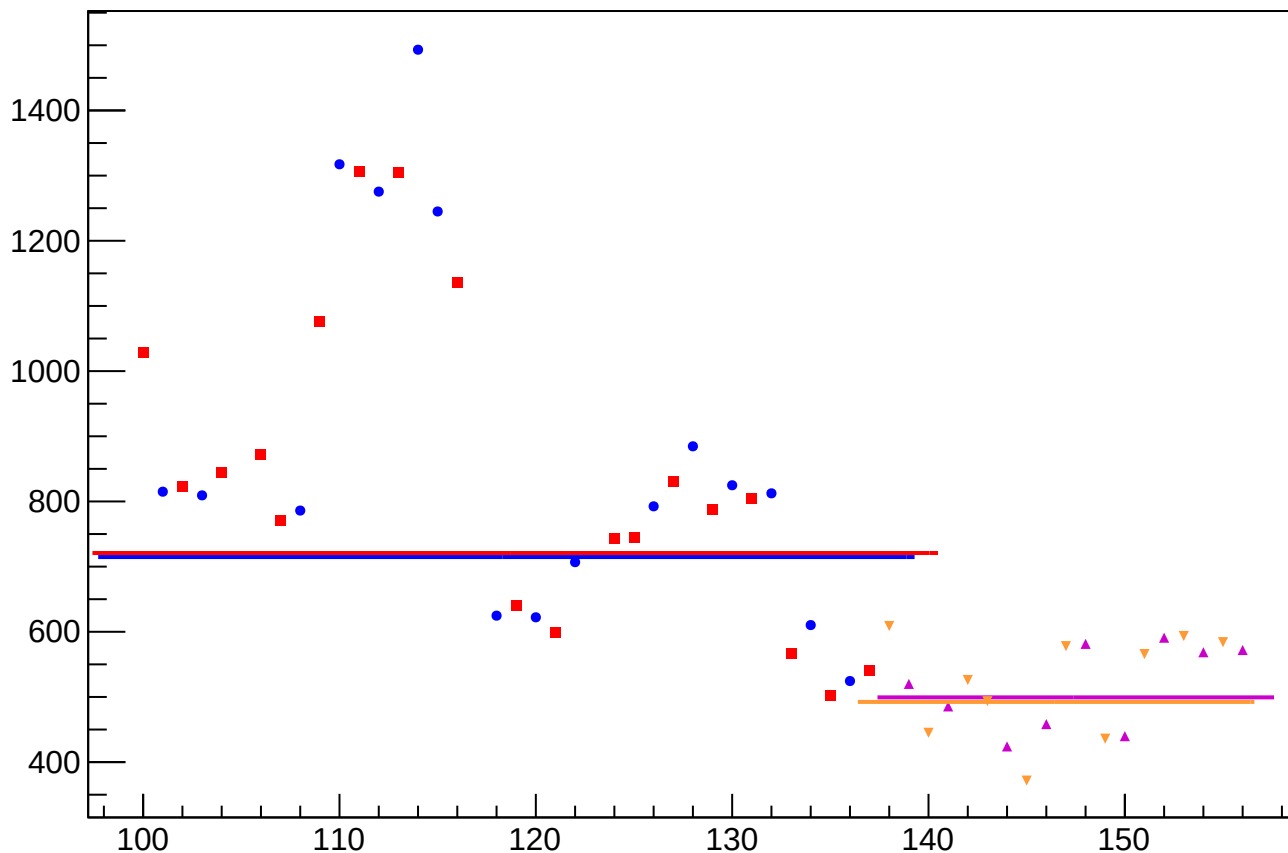
Right: -254.153 ± 193.800 $\chi^2/\text{NDF}: 26.5/34$

In: -249.347 ± 151.124 $\chi^2/\text{NDF}: 20.9/24$

Out: 340.281 ± 149.797 $\chi^2/\text{NDF}: 31.4/28$

All: 48.068 ± 106.388 $\chi^2/\text{NDF}: 60.0/53$

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: 492.382 $\pm$ 0.127 χ^2 /NDF: 429155.7/9

Right Out: 720.884 $\pm$ 0.193 χ^2 /NDF: 1018428.9/18

Left In: 499.357 $\pm$ 0.128 χ^2 /NDF: 232523.0/8

Left: 495.831 $\pm$ 0.090 χ^2 /NDF: 663180.1/18

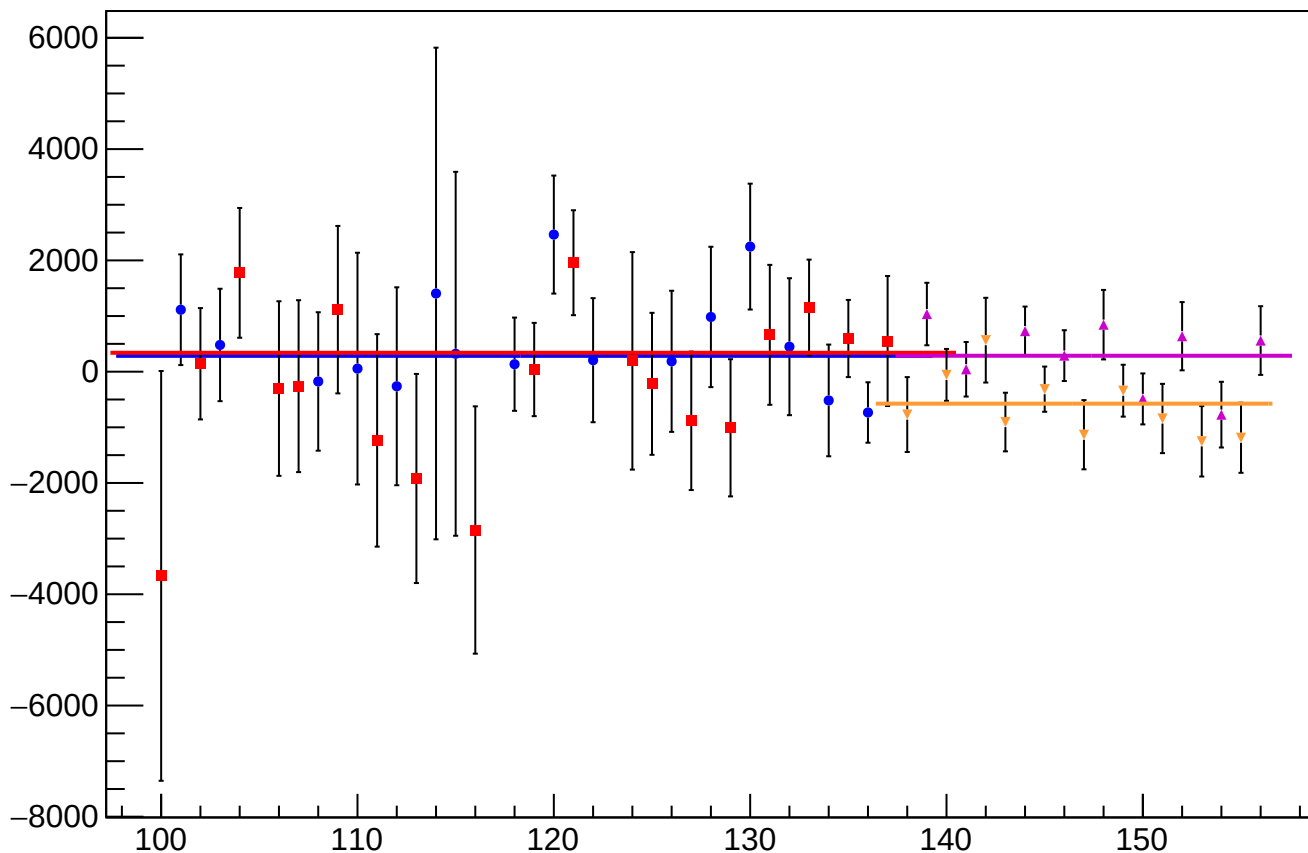
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895155.0/34

In: 564.590 $\pm$ 0.107 χ^2 /NDF: 1966044.4/24

Out: 560.880 $\pm$ 0.106 χ^2 /NDF: 2424449.0/28

All: 562.719 $\pm$ 0.075 χ^2 /NDF: 4391101.2/53

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: -574.538 $\pm$ 174.136 χ^2 /NDF: 7.7/9

Right Out: 340.018 $\pm$ 273.601 χ^2 /NDF: 14.1/18

Left In: 286.377 $\pm$ 174.736 χ^2 /NDF: 10.4/8

Left: -145.560 $\pm$ 123.345 χ^2 /NDF: 30.3/18

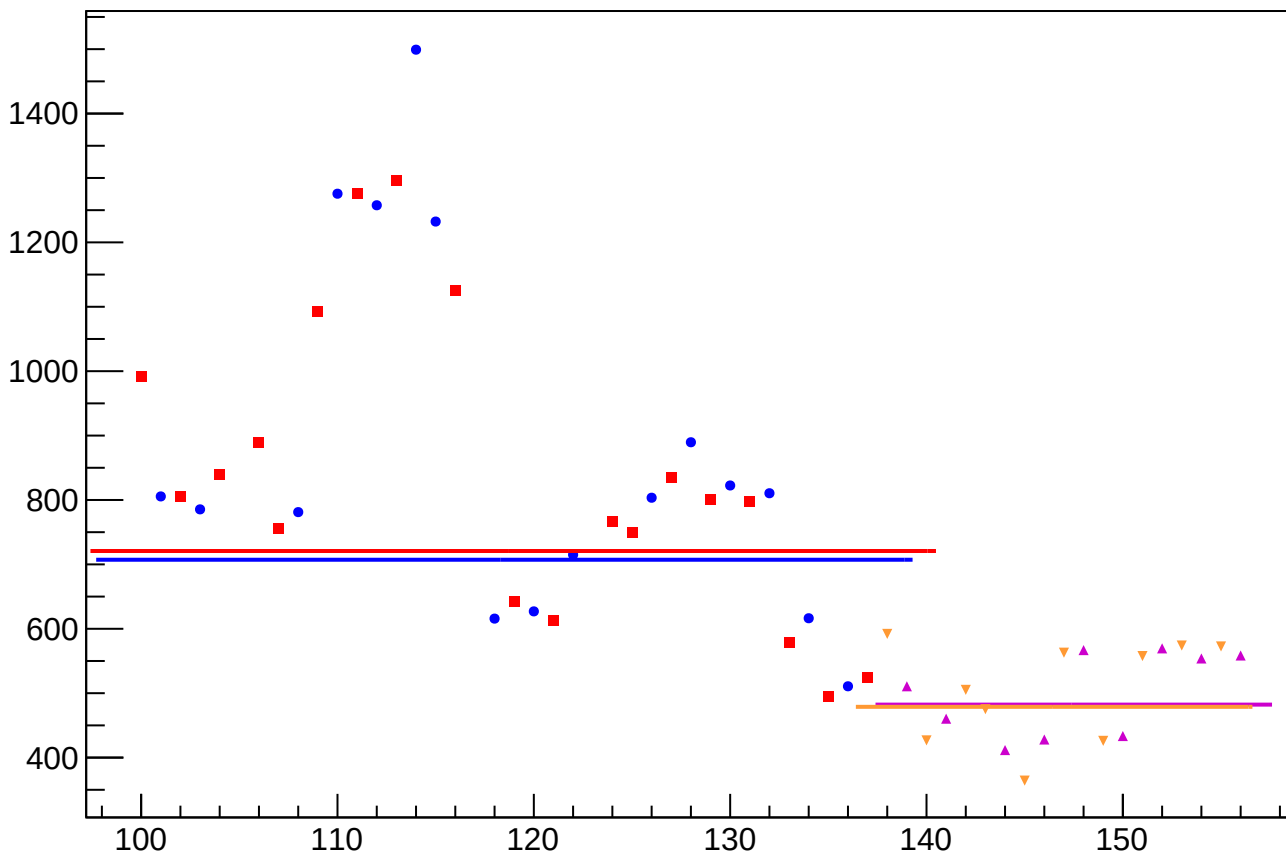
Right: 312.231 $\pm$ 192.877 χ^2 /NDF: 26.9/34

In: 285.910 $\pm$ 147.005 χ^2 /NDF: 23.2/24

Out: -310.873 $\pm$ 146.906 χ^2 /NDF: 29.7/28

All: -12.683 $\pm$ 103.913 χ^2 /NDF: 61.2/53

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: 478.834 $\pm$ 0.123 χ^2/NDF : 427027.0/9

Right Out: 720.778 $\pm$ 0.193 χ^2/NDF : 1015277.9/18

Left In: 482.257 $\pm$ 0.124 χ^2/NDF : 248472.8/8

Left: 480.540 $\pm$ 0.087 χ^2/NDF : 675885.0/18

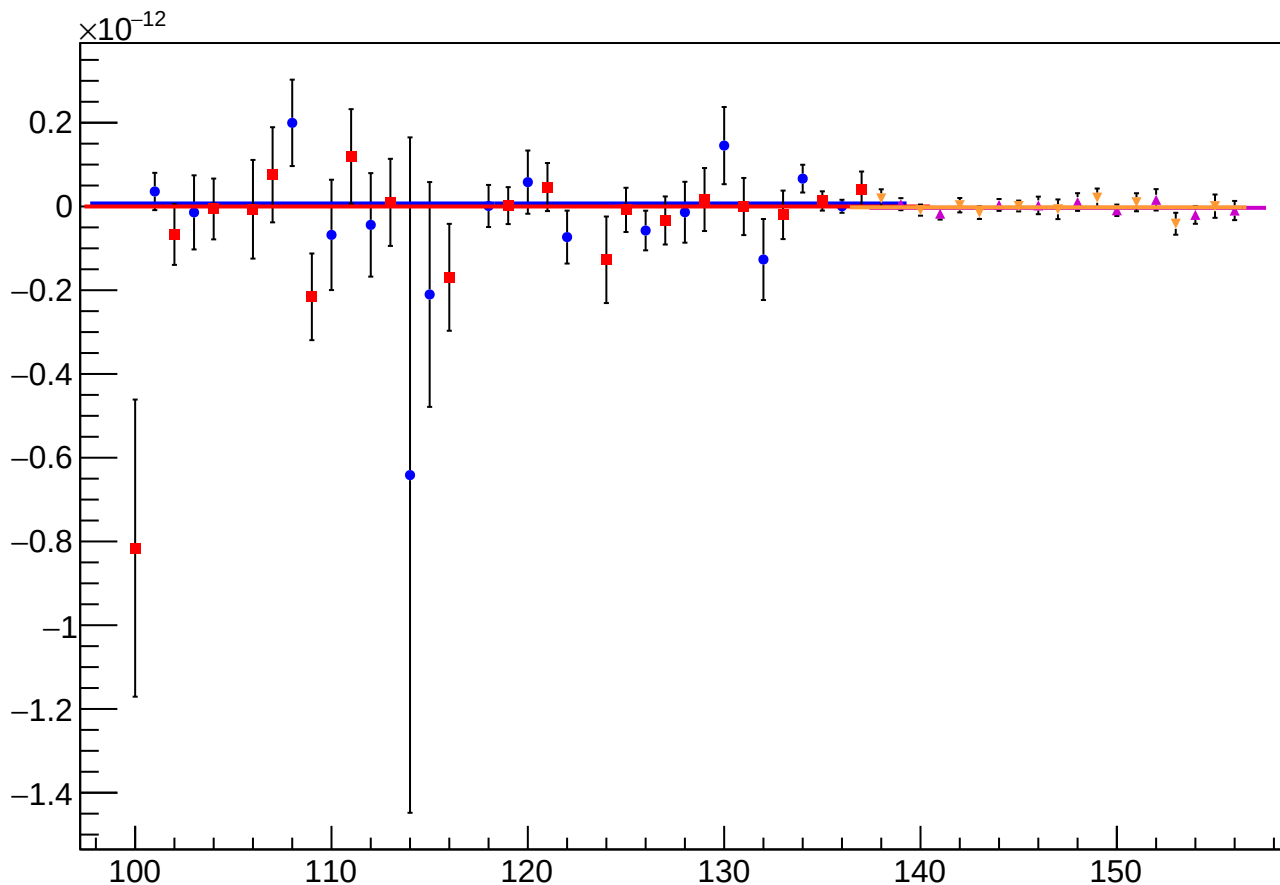
Right: 713.952 $\pm$ 0.136 χ^2/NDF : 1914442.0/34

In: 547.992 $\pm$ 0.104 χ^2/NDF : 2113777.4/24

Out: 548.586 $\pm$ 0.104 χ^2/NDF : 2555371.7/28

All: 548.289 $\pm$ 0.073 χ^2/NDF : 4669165.4/53

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 5.7/9

Right Out: -0.000+/-0.000 χ^2/NDF : 17.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.5/8

Left: -0.000+/-0.000 χ^2/NDF : 9.3/18

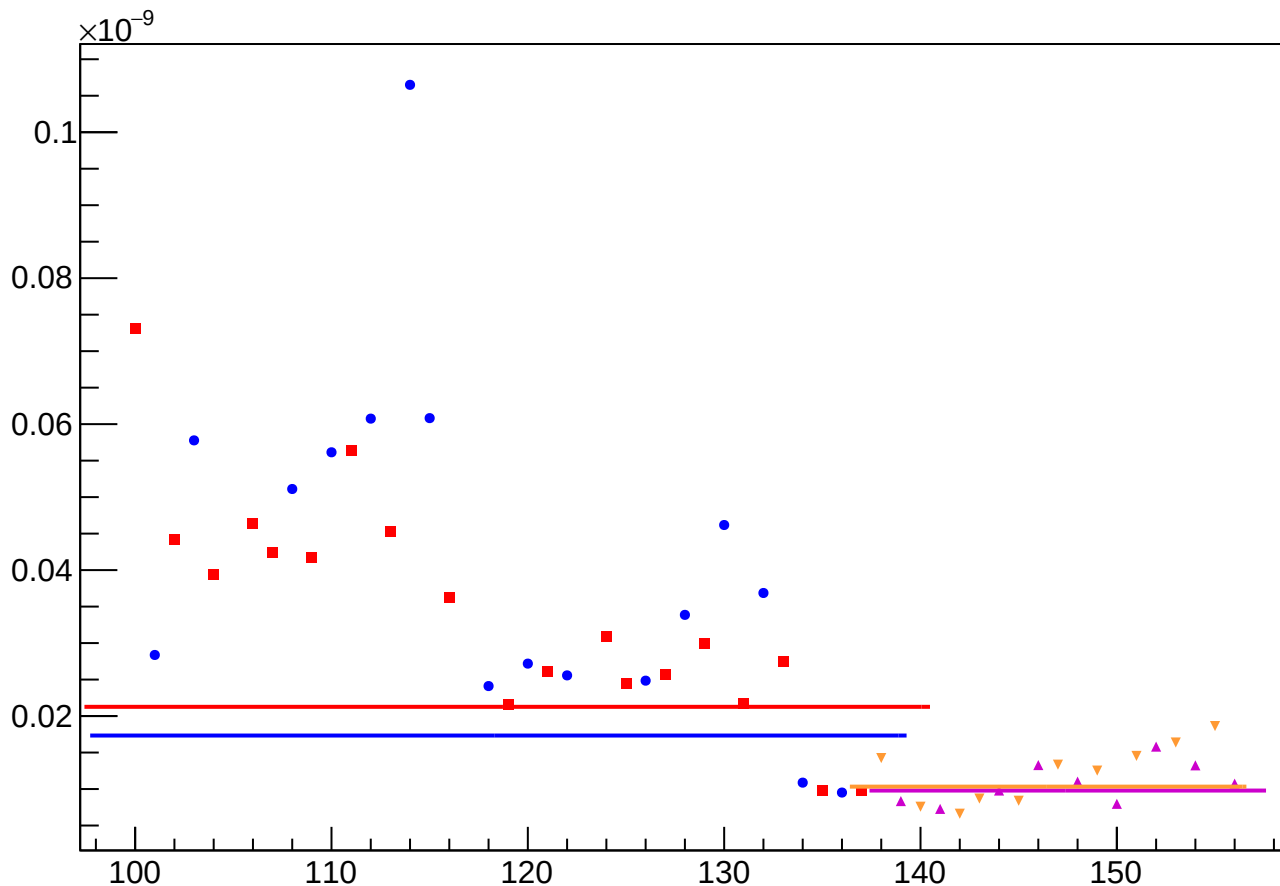
Right: 0.000+/-0.000 χ^2/NDF : 35.3/34

In: -0.000+/-0.000 χ^2/NDF : 21.5/24

Out: -0.000+/-0.000 χ^2/NDF : 23.5/28

All: -0.000+/-0.000 χ^2/NDF : 45.1/53

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 : 724260.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1671050.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 348556.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1081560.1/18

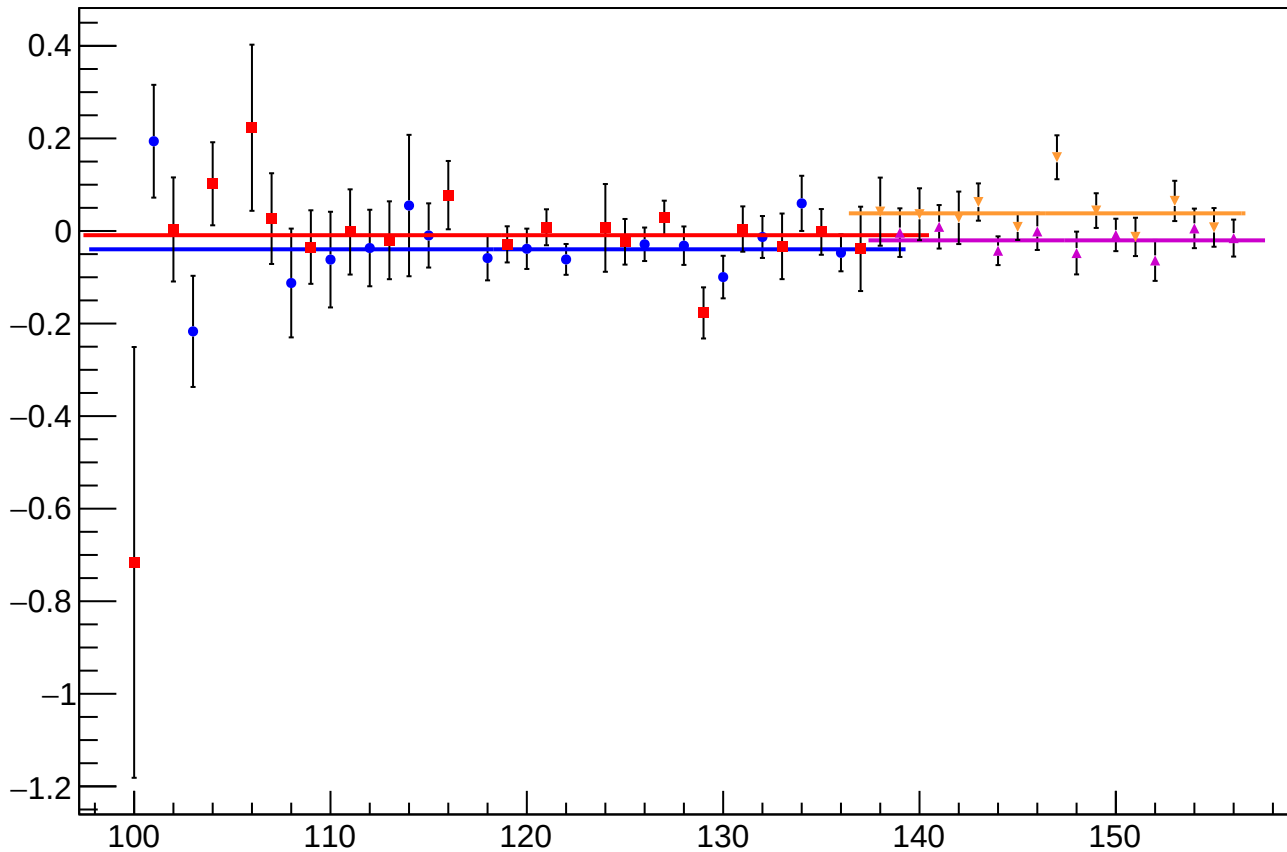
Right: 0.000+/-0.000 χ^2/NDF : 4139315.0/34

In: 0.000+/-0.000 χ^2/NDF : 3407512.1/24

Out: 0.000+/-0.000 χ^2/NDF : 3520372.0/28

All: 0.000+/-0.000 χ^2/NDF : 6947636.4/53

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 $\chi^2/\text{NDF}: 12.4/15$

Left Out: 0.038 ± 0.013 $\chi^2/\text{NDF}: 10.5/9$

Right Out: -0.009 ± 0.014 $\chi^2/\text{NDF}: 18.3/18$

Left In: -0.020 ± 0.014 $\chi^2/\text{NDF}: 3.0/8$

Left: 0.009 ± 0.010 $\chi^2/\text{NDF}: 22.9/18$

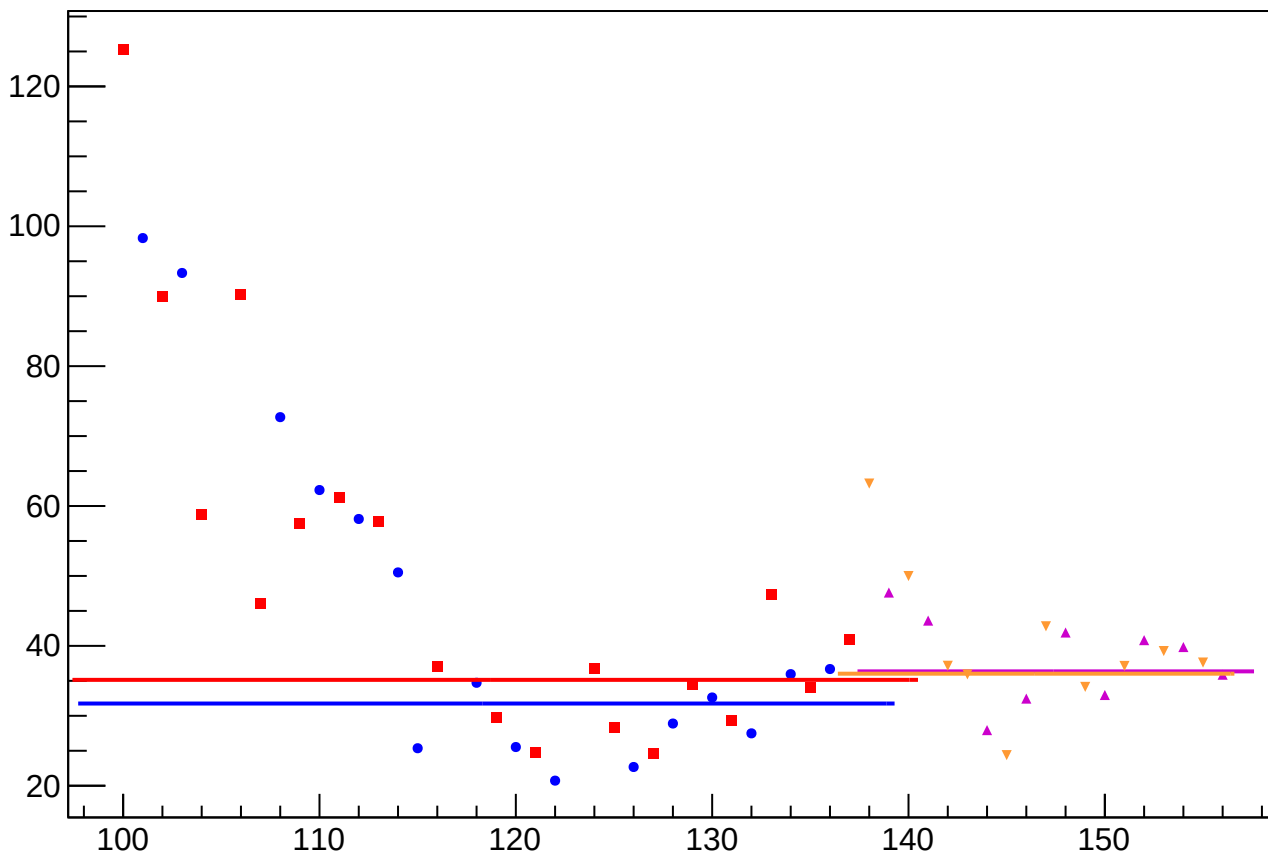
Right: -0.025 ± 0.010 $\chi^2/\text{NDF}: 33.2/34$

In: -0.030 ± 0.009 $\chi^2/\text{NDF}: 16.5/24$

Out: 0.016 ± 0.010 $\chi^2/\text{NDF}: 34.6/28$

All: -0.008 ± 0.007 $\chi^2/\text{NDF}: 62.6/53$

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: 36.022+/-0.010 χ^2/NDF : 801453.3/9

Right Out: 35.140+/-0.010 χ^2/NDF : 1844676.3/18

Left In: 36.353+/-0.010 χ^2/NDF : 386335.8/8

Left: 36.186+/-0.007 χ^2/NDF : 1188390.0/18

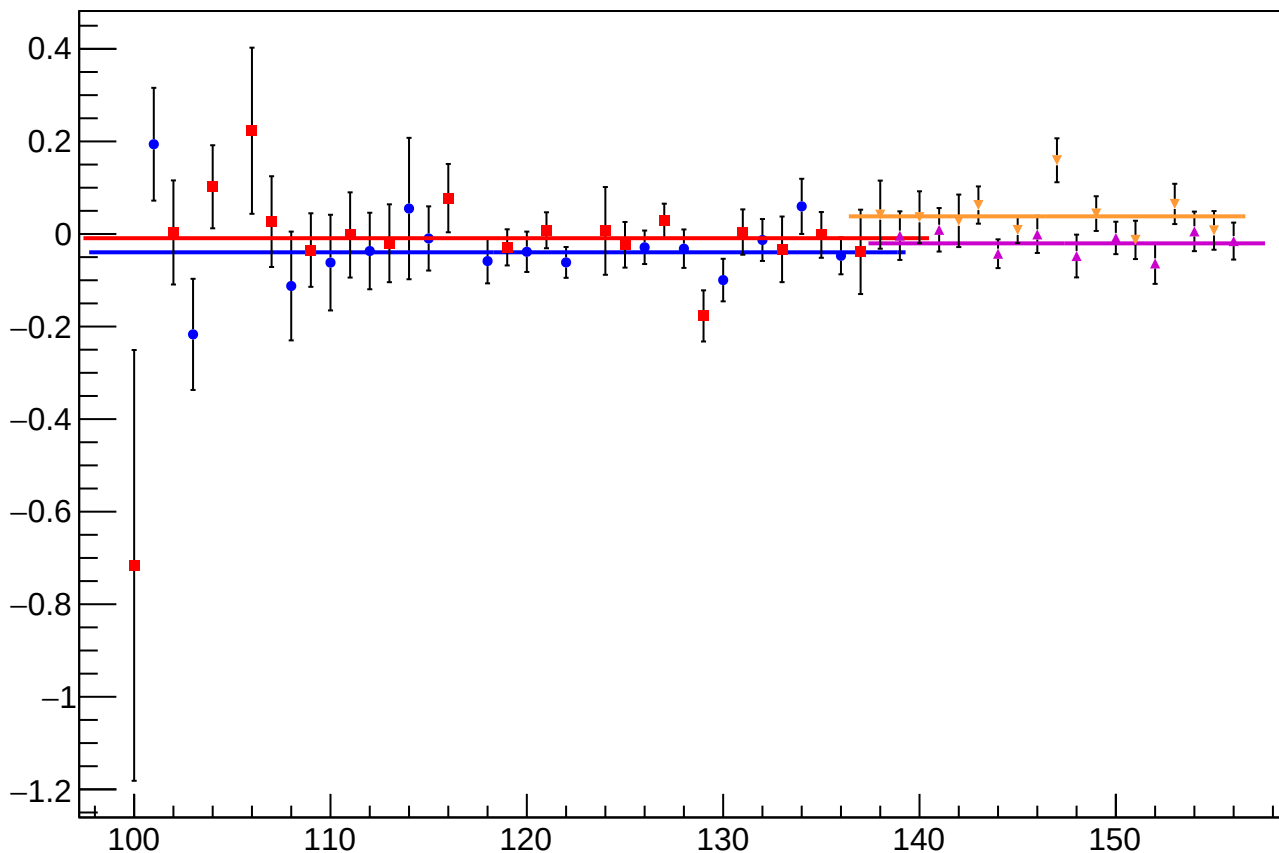
Right: 33.323+/-0.007 χ^2/NDF : 4158326.5/34

In: 33.987+/-0.007 χ^2/NDF : 2757163.9/24

Out: 35.604+/-0.007 χ^2/NDF : 2650212.9/28

All: 34.769+/-0.005 χ^2/NDF : 5435760.9/53

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: 0.038 ± 0.013 χ^2/NDF : 10.5/9

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: -0.020 ± 0.014 χ^2/NDF : 3.0/8

Left: 0.009 ± 0.010 χ^2/NDF : 22.9/18

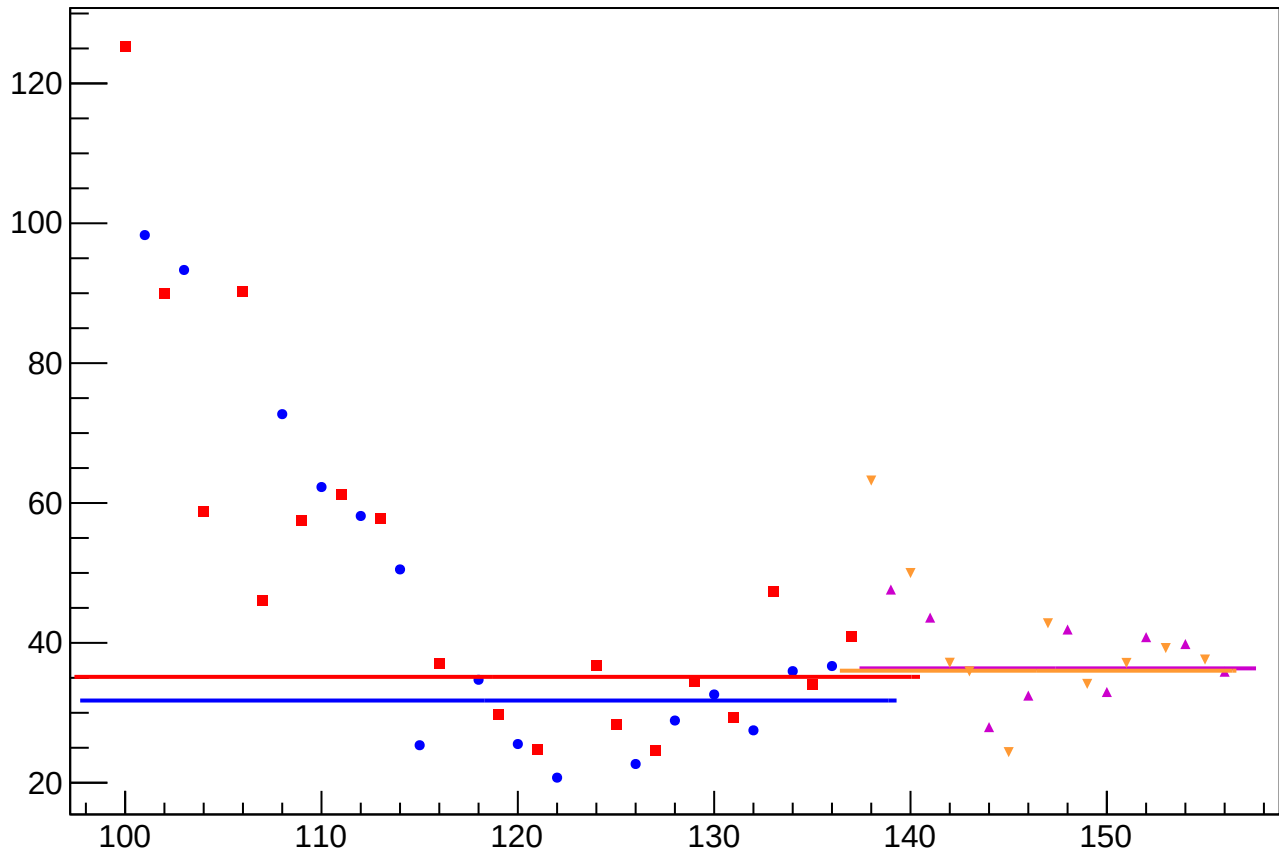
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.030 ± 0.009 χ^2/NDF : 16.5/24

Out: 0.016 ± 0.010 χ^2/NDF : 34.6/28

All: -0.008 ± 0.007 χ^2/NDF : 62.6/53

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: 36.022+/-0.010 χ^2/NDF : 801453.3/9

Right Out: 35.140+/-0.010 χ^2/NDF : 1844676.3/18

Left In: 36.353+/-0.010 χ^2/NDF : 386335.8/8

Left: 36.186+/-0.007 χ^2/NDF : 1188390.0/18

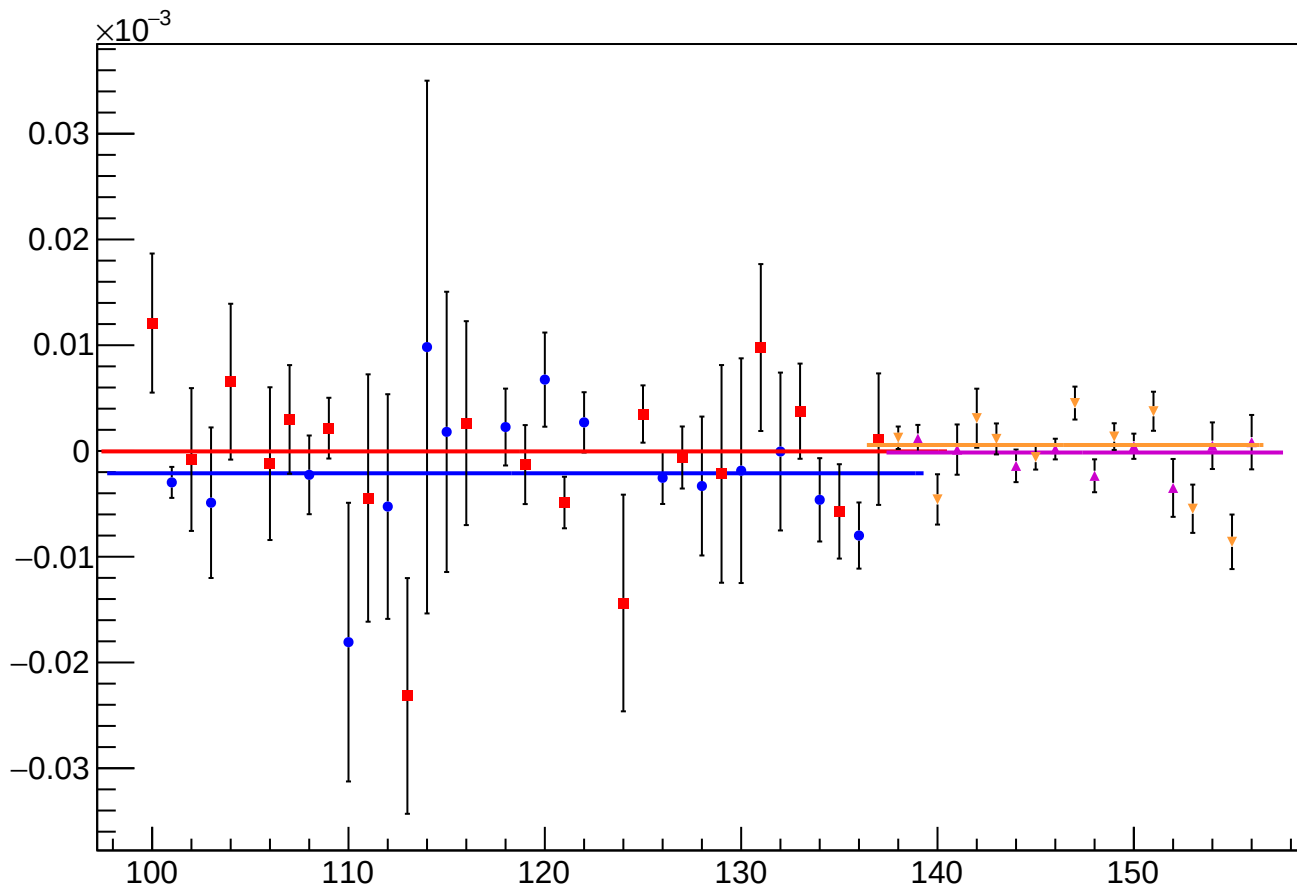
Right: 33.323+/-0.007 χ^2/NDF : 4158326.5/34

In: 33.987+/-0.007 χ^2/NDF : 2757163.9/24

Out: 35.604+/-0.007 χ^2/NDF : 2650212.9/28

All: 34.769+/-0.005 χ^2/NDF : 5435760.9/53

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 : 36.5/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.8/8

Left: 0.000+/-0.000 χ^2/NDF : 43.3/18

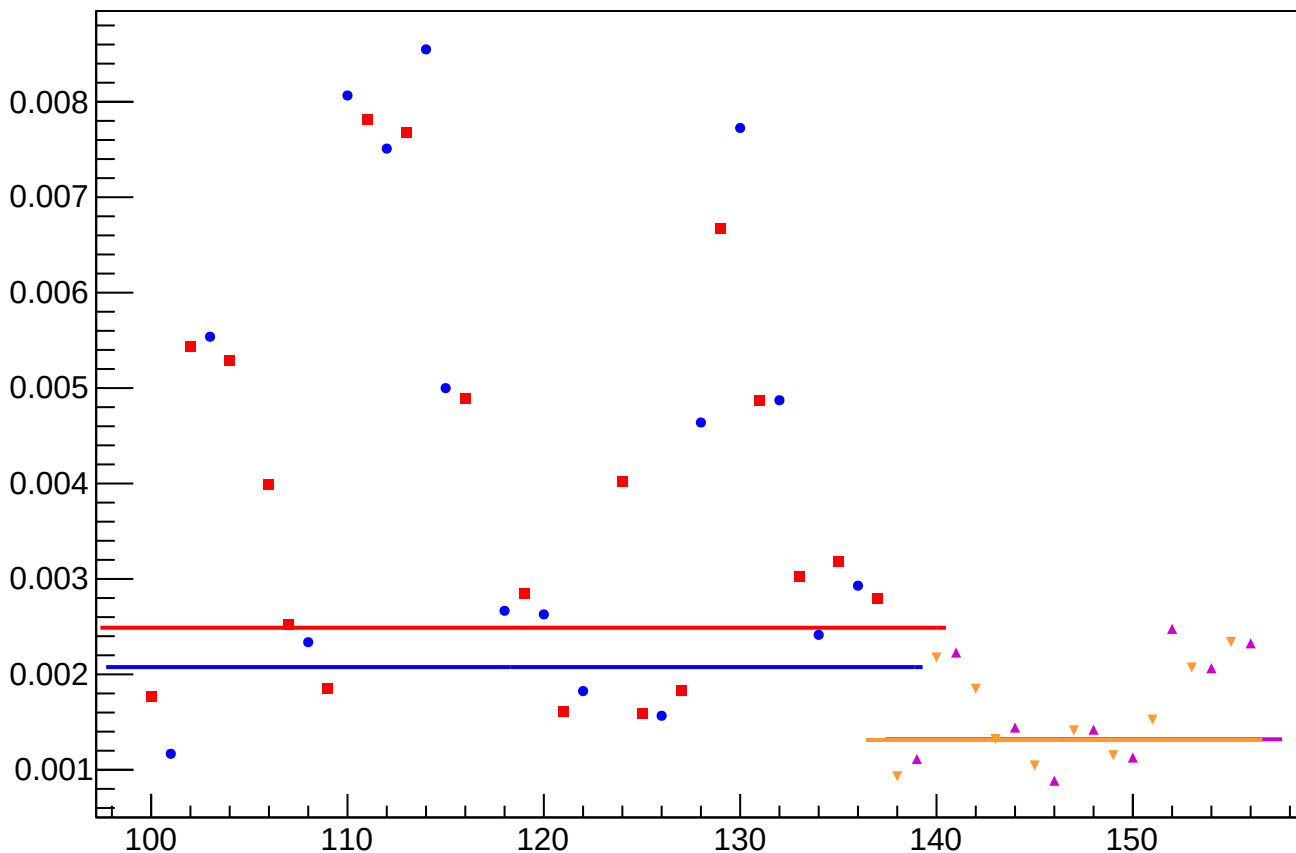
Right: -0.000+/-0.000 χ^2/NDF : 38.4/34

In: -0.000+/-0.000 χ^2/NDF : 24.1/24

Out: 0.000+/-0.000 χ^2/NDF : 58.1/28

All: -0.000+/-0.000 χ^2/NDF : 85.1/53

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 :1302724.9/9

Right Out: 0.002+/-0.000 χ^2/NDF : 3092230.7/18

Left In: 0.001+/-0.000 χ^2/NDF :1703947.0/8

Left: 0.001+/-0.000 χ^2/NDF : 3006869.8/18

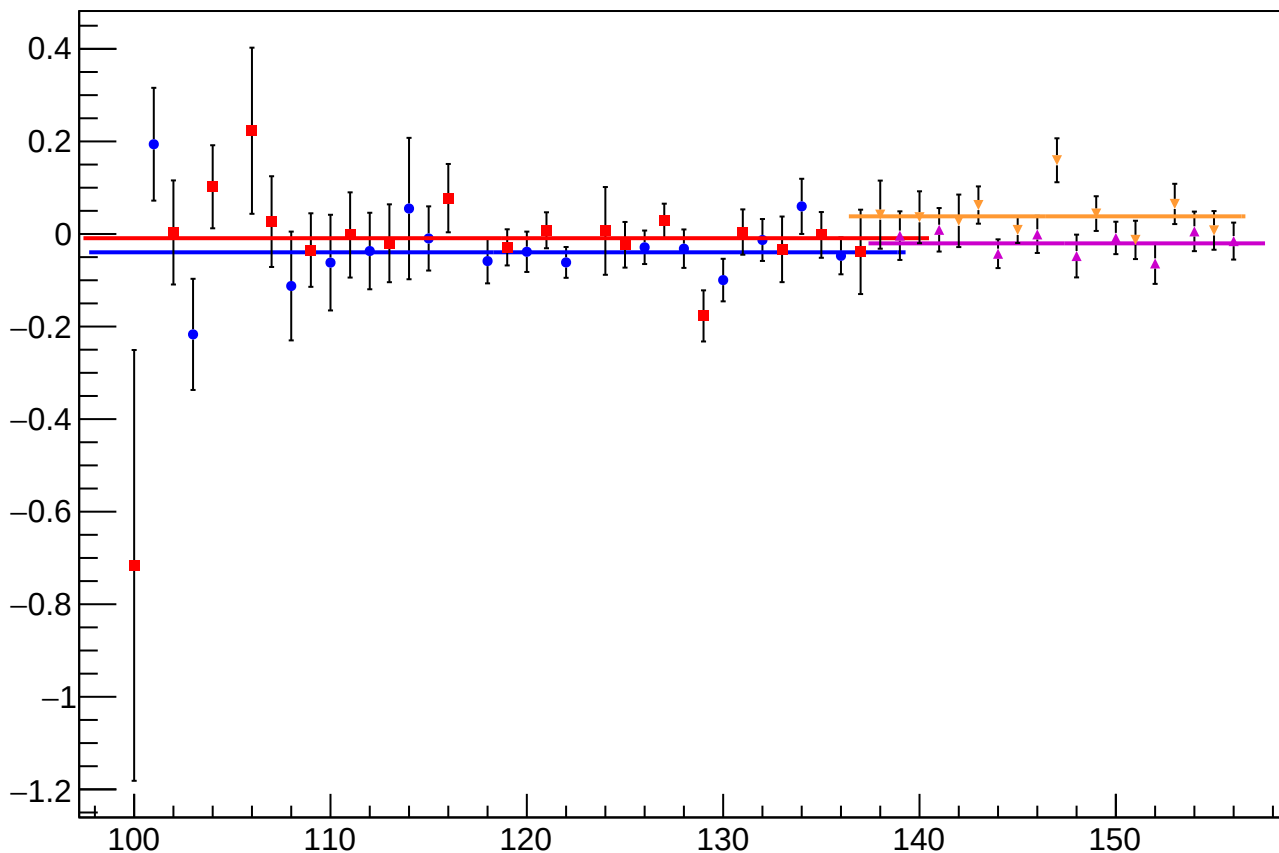
Right: 0.002+/-0.000 χ^2/NDF : 7186793.8/34

In: 0.002+/-0.000 χ^2/NDF :6674695.3/24

Out: 0.002+/-0.000 χ^2/NDF :6471106.4/28

All: 0.002+/-0.000 χ^2/NDF : 13150317.9/53

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: 0.038 ± 0.013 $\chi^2/\text{NDF}: 10.5/9$

Right Out: -0.009 ± 0.014 $\chi^2/\text{NDF}: 18.3/18$

Left In: -0.020 ± 0.014 $\chi^2/\text{NDF}: 3.0/8$

Left: 0.009 ± 0.010 $\chi^2/\text{NDF}: 22.9/18$

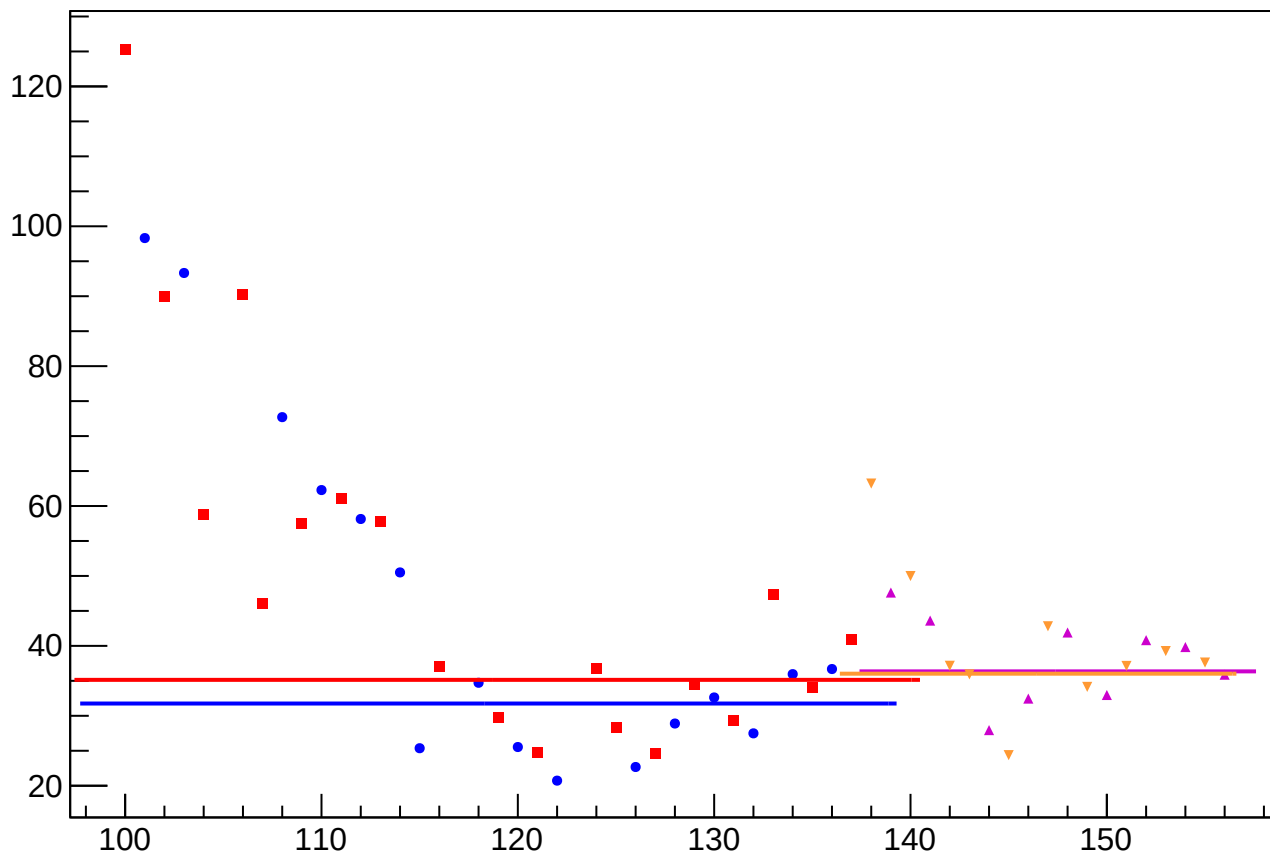
Right: -0.025 ± 0.010 $\chi^2/\text{NDF}: 33.2/34$

In: -0.030 ± 0.009 $\chi^2/\text{NDF}: 16.5/24$

Out: 0.016 ± 0.010 $\chi^2/\text{NDF}: 34.6/28$

All: -0.008 ± 0.007 $\chi^2/\text{NDF}: 62.6/53$

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.756 $\pm$ 0.009 χ^2 /NDF: 2252373.4/15

Left Out: 36.022 $\pm$ 0.010 χ^2 /NDF: 801496.9/9

Right Out: 35.140 $\pm$ 0.010 χ^2 /NDF: 1844572.3/18

Left In: 36.353 $\pm$ 0.010 χ^2 /NDF: 386338.7/8

Left: 36.186 $\pm$ 0.007 χ^2 /NDF: 1188436.6/18

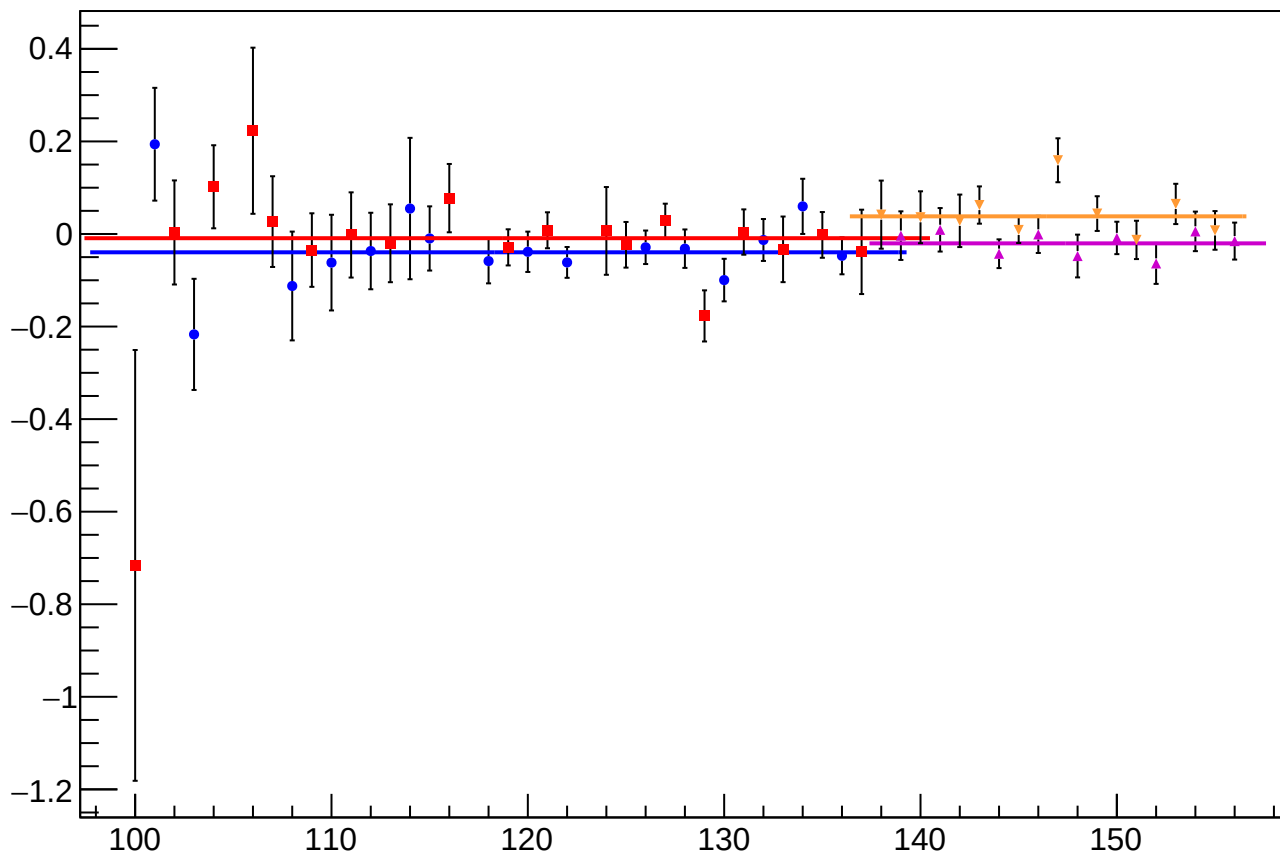
Right: 33.324 $\pm$ 0.007 χ^2 /NDF: 4158199.3/34

In: 33.987 $\pm$ 0.007 χ^2 /NDF: 2757120.1/24

Out: 35.604 $\pm$ 0.007 χ^2 /NDF: 2650147.7/28

All: 34.769 $\pm$ 0.005 χ^2 /NDF: 5435651.8/53

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: 0.038 ± 0.013 χ^2/NDF : 10.5/9

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: -0.020 ± 0.014 χ^2/NDF : 3.0/8

Left: 0.009 ± 0.010 χ^2/NDF : 22.9/18

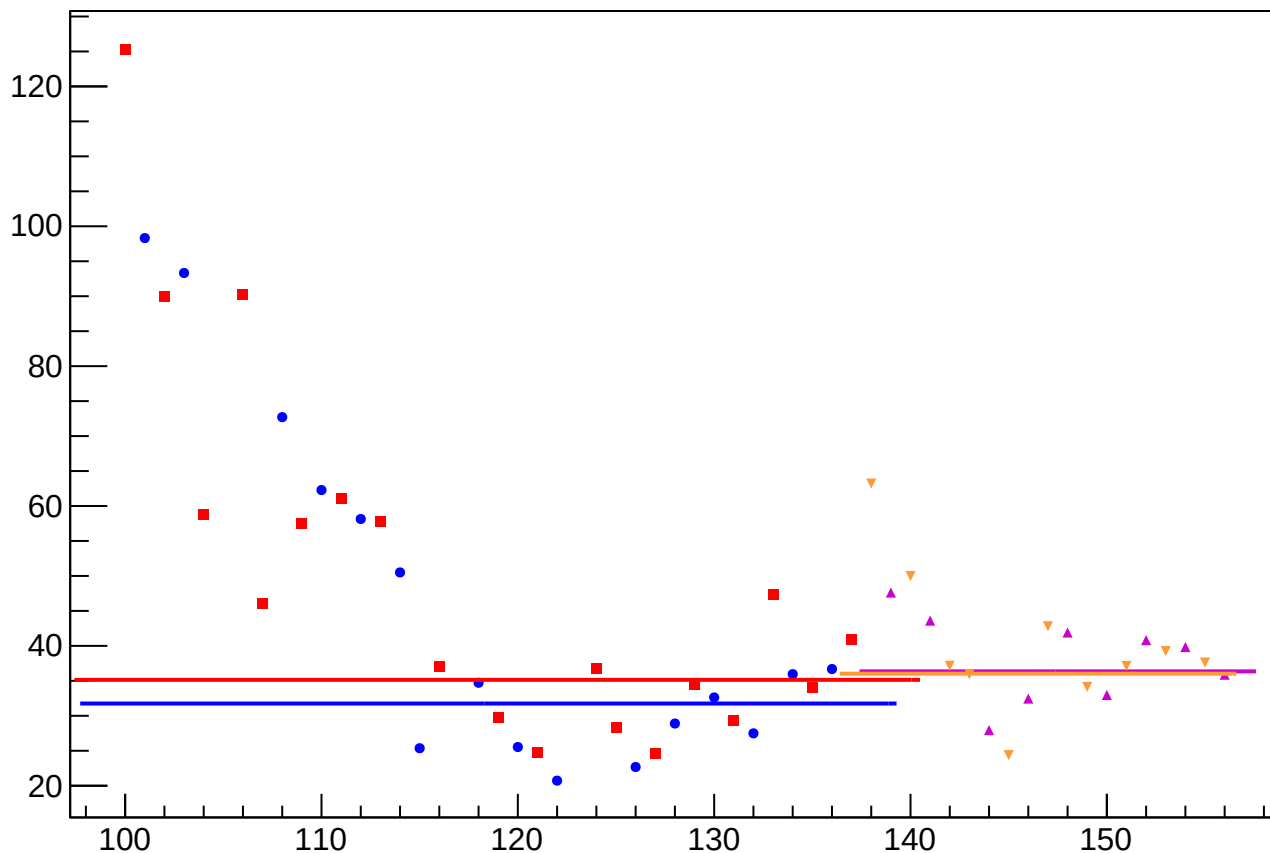
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.030 ± 0.009 χ^2/NDF : 16.5/24

Out: 0.016 ± 0.010 χ^2/NDF : 34.6/28

All: -0.008 ± 0.007 χ^2/NDF : 62.6/53

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: 36.022 $\pm$ 0.010 χ^2 /NDF: 801496.9/9

Right Out: 35.140 $\pm$ 0.010 χ^2 /NDF: 1844572.3/18

Left In: 36.353 $\pm$ 0.010 χ^2 /NDF: 386338.7/8

Left: 36.186 $\pm$ 0.007 χ^2 /NDF: 1188436.6/18

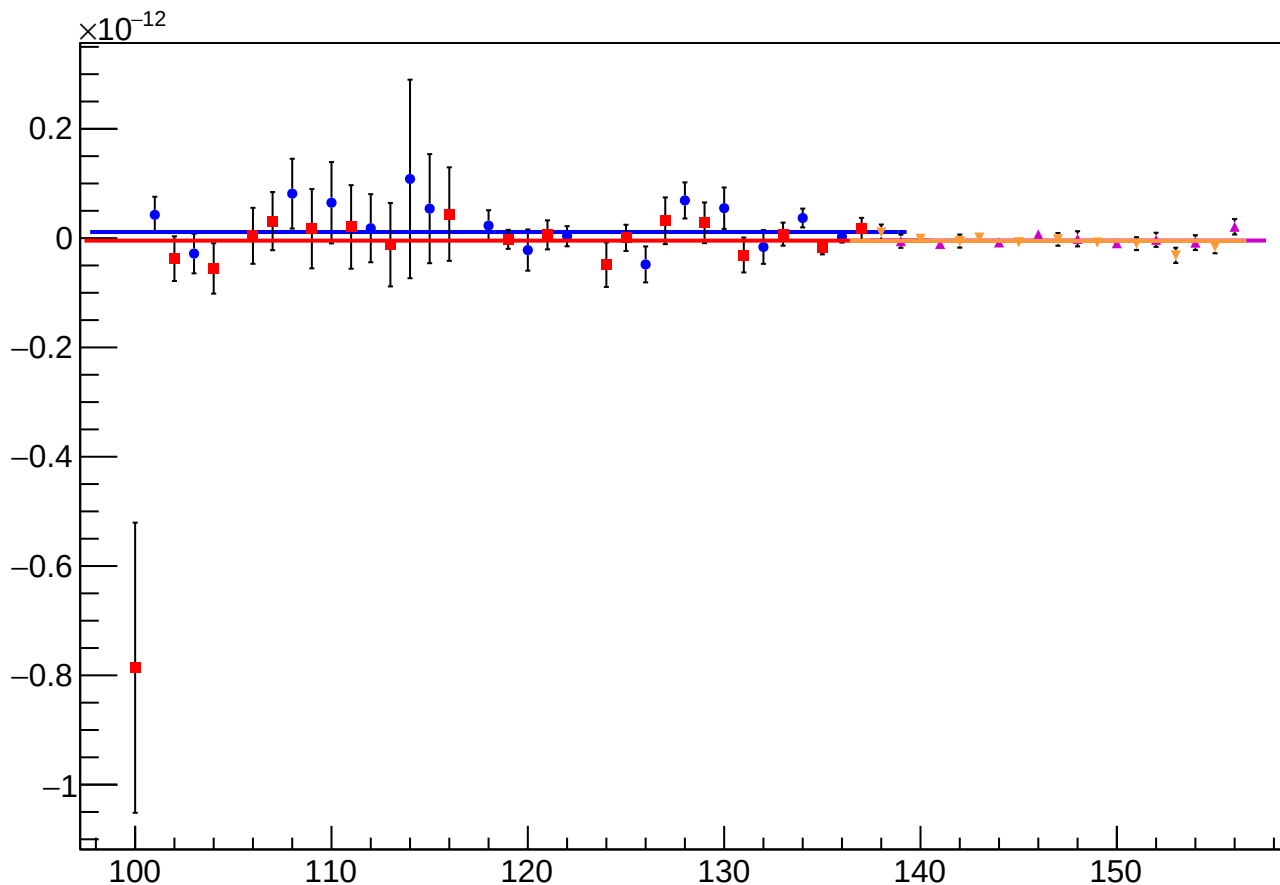
Right: 33.324 $\pm$ 0.007 χ^2 /NDF: 4158199.3/34

In: 33.987 $\pm$ 0.007 χ^2 /NDF: 2757120.1/24

Out: 35.604 $\pm$ 0.007 χ^2 /NDF: 2650147.7/28

All: 34.769 $\pm$ 0.005 χ^2 /NDF: 5435651.8/53

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 : 7.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 17.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.2/8

Left: -0.000+/-0.000 χ^2/NDF : 13.7/18

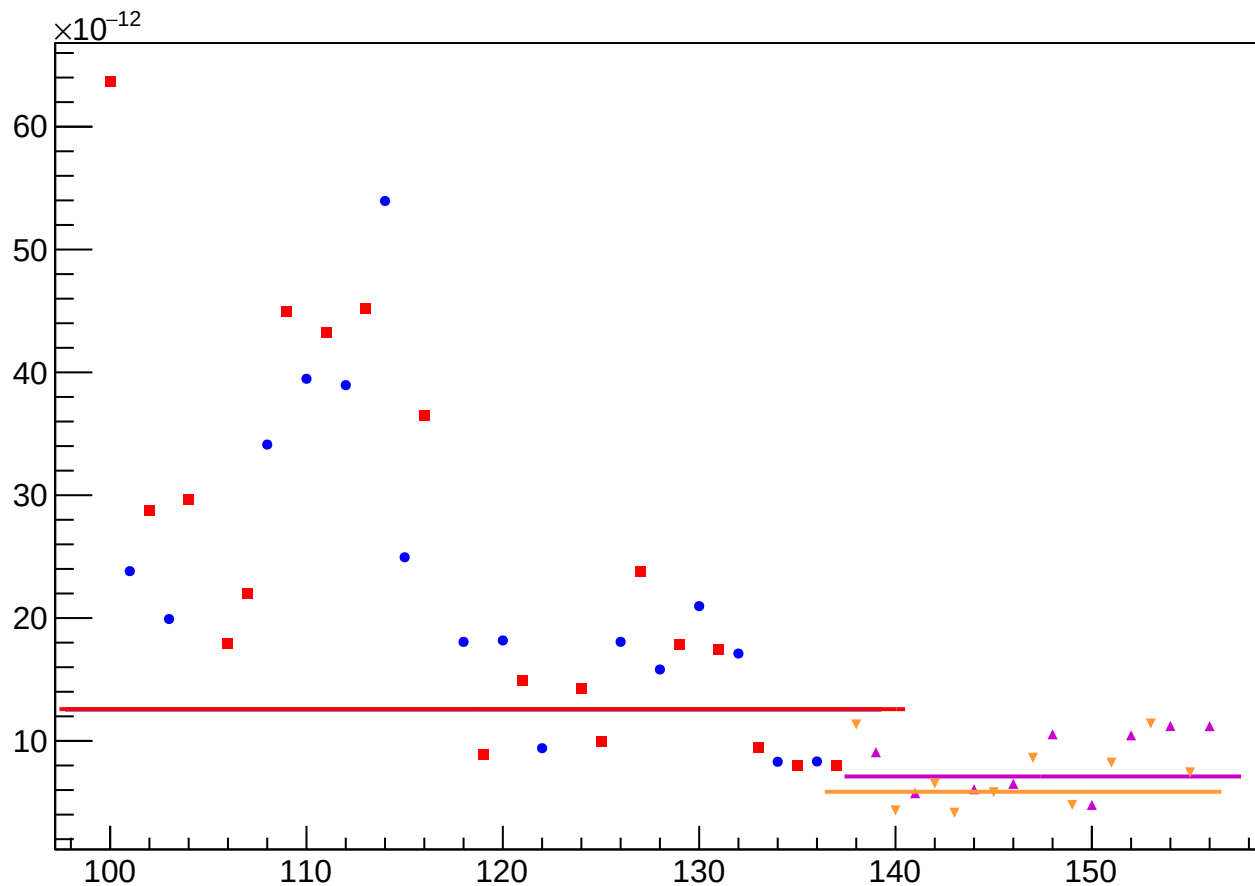
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: -0.000+/-0.000 χ^2/NDF : 27.8/24

Out: -0.000+/-0.000 χ^2/NDF : 24.9/28

All: -0.000+/-0.000 χ^2/NDF : 53.6/53

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 : 1161116.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2747891.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 970442.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2300238.5/18

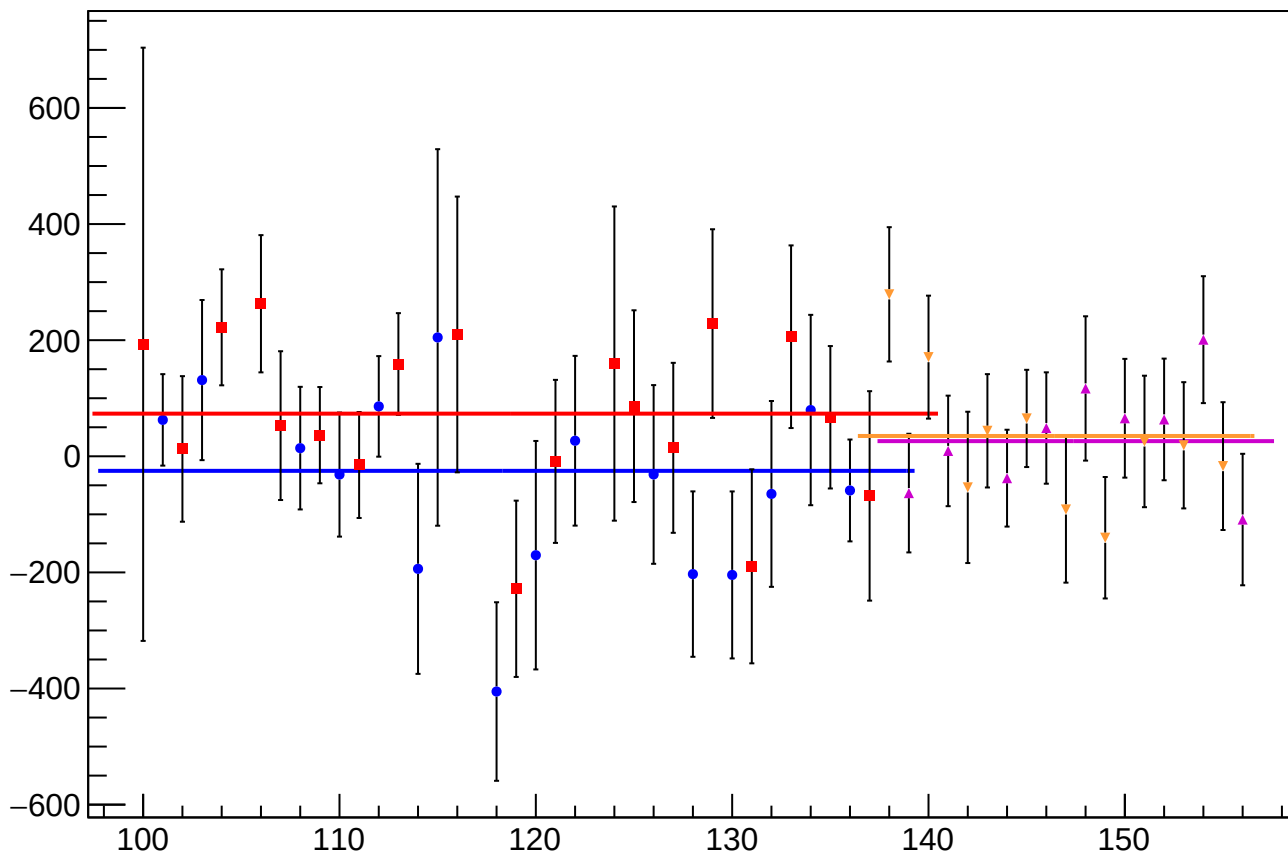
Right: 0.000+/-0.000 χ^2/NDF : 4912459.0/34

In: 0.000+/-0.000 χ^2/NDF : 4279262.2/24

Out: 0.000+/-0.000 χ^2/NDF : 5648571.1/28

All: 0.000+/-0.000 χ^2/NDF : 10165636.0/53

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.072 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 34.992 ± 33.907 $\chi^2/\text{NDF}: 10.8/9$

Right Out: 73.458 ± 29.935 $\chi^2/\text{NDF}: 16.8/18$

Left In: 26.110 ± 33.871 $\chi^2/\text{NDF}: 6.2/8$

Left: 30.546 ± 23.963 $\chi^2/\text{NDF}: 17.0/18$

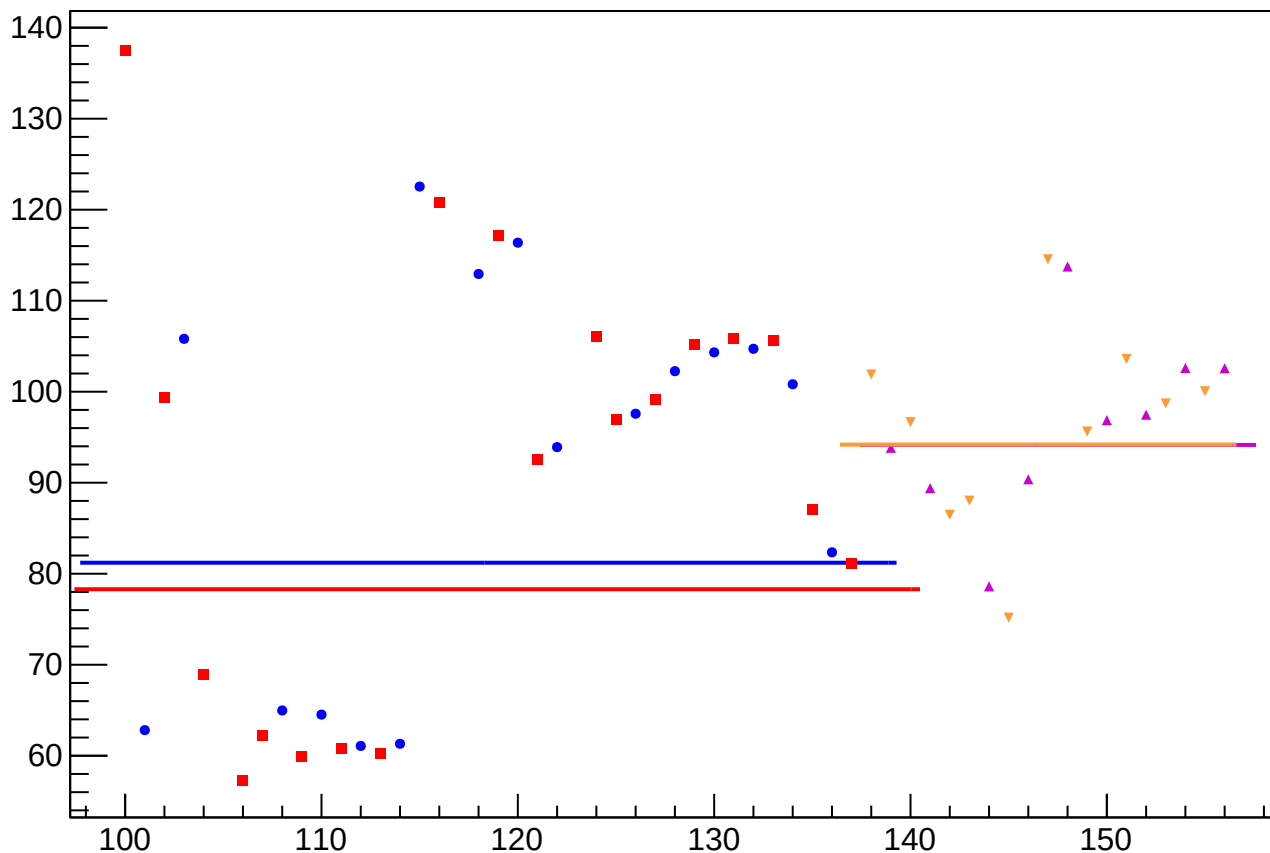
Right: 26.278 ± 21.610 $\chi^2/\text{NDF}: 38.2/34$

In: -1.554 ± 22.960 $\chi^2/\text{NDF}: 23.7/24$

Out: 56.609 ± 22.441 $\chi^2/\text{NDF}: 28.3/28$

All: 28.192 ± 16.048 $\chi^2/\text{NDF}: 55.2/53$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210+/-0.022 χ^2/NDF : 787676.9/15

Left Out: 94.187+/-0.024 χ^2/NDF : 203583.4/9

Right Out: 78.298+/-0.021 χ^2/NDF : 934673.9/18

Left In: 94.152+/-0.024 χ^2/NDF : 153756.0/8

Left: 94.169+/-0.017 χ^2/NDF : 357340.4/18

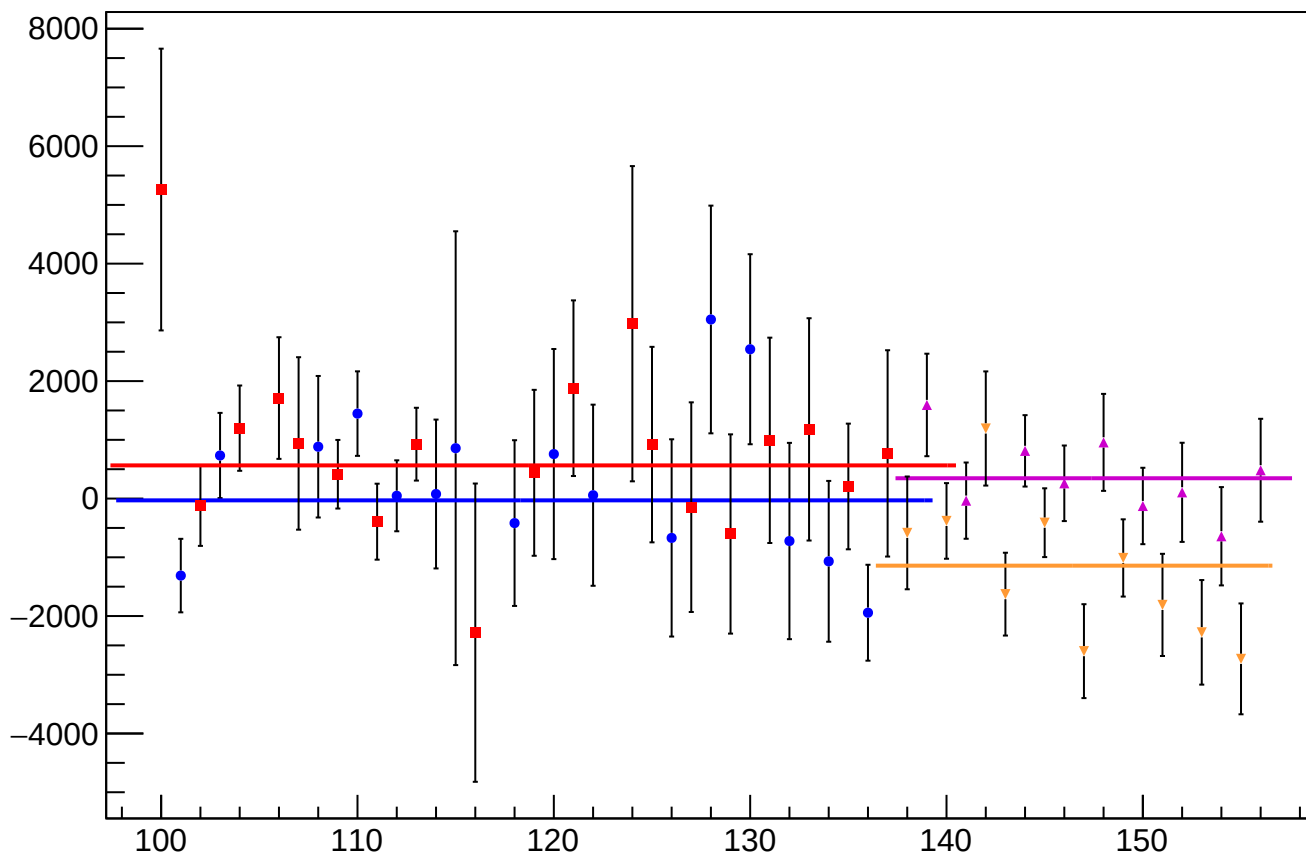
Right: 79.692+/-0.015 χ^2/NDF : 1731411.2/34

In: 87.157+/-0.016 χ^2/NDF : 1099263.3/24

Out: 85.258+/-0.016 χ^2/NDF : 1385067.4/28

All: 86.185+/-0.011 χ^2/NDF : 2491327.1/53

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: -1142.291 ± 242.071 $\chi^2/\text{NDF}: 17.9/9$

Right Out: 564.890 ± 238.492 $\chi^2/\text{NDF}: 13.3/18$

Left In: 345.962 ± 244.168 $\chi^2/\text{NDF}: 5.6/8$

Left: -404.583 ± 171.907 $\chi^2/\text{NDF}: 42.2/18$

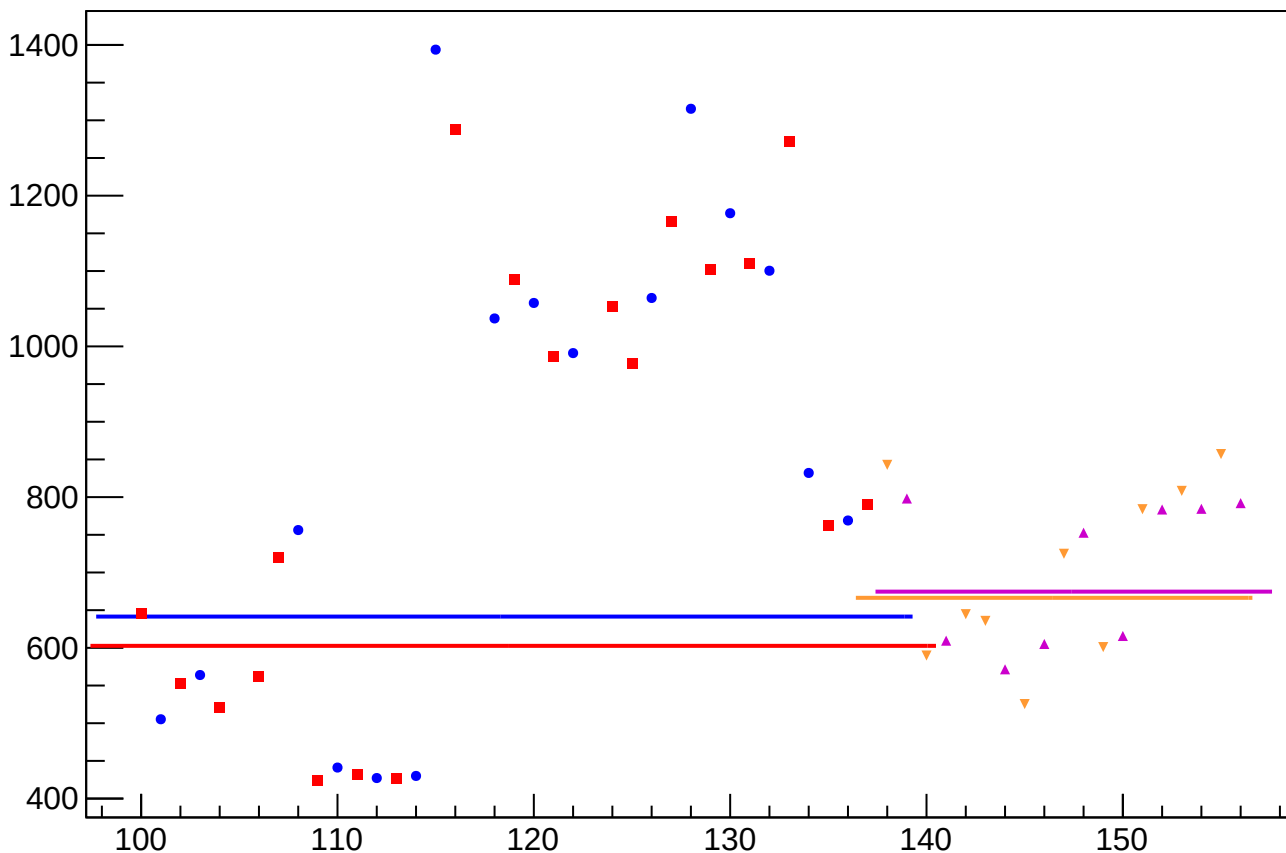
Right: 289.446 ± 174.816 $\chi^2/\text{NDF}: 38.1/34$

In: 167.407 ± 177.015 $\chi^2/\text{NDF}: 28.6/24$

Out: -275.987 ± 169.891 $\chi^2/\text{NDF}: 56.5/28$

All: -63.392 ± 122.572 $\chi^2/\text{NDF}: 88.3/53$

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: 666.381+/-0.171 χ^2/NDF : 416014.5/9

Right Out: 602.654+/-0.169 χ^2/NDF : 2070307.7/18

Left In: 674.599+/-0.173 χ^2/NDF : 279071.1/8

Left: 670.455+/-0.122 χ^2/NDF : 696228.3/18

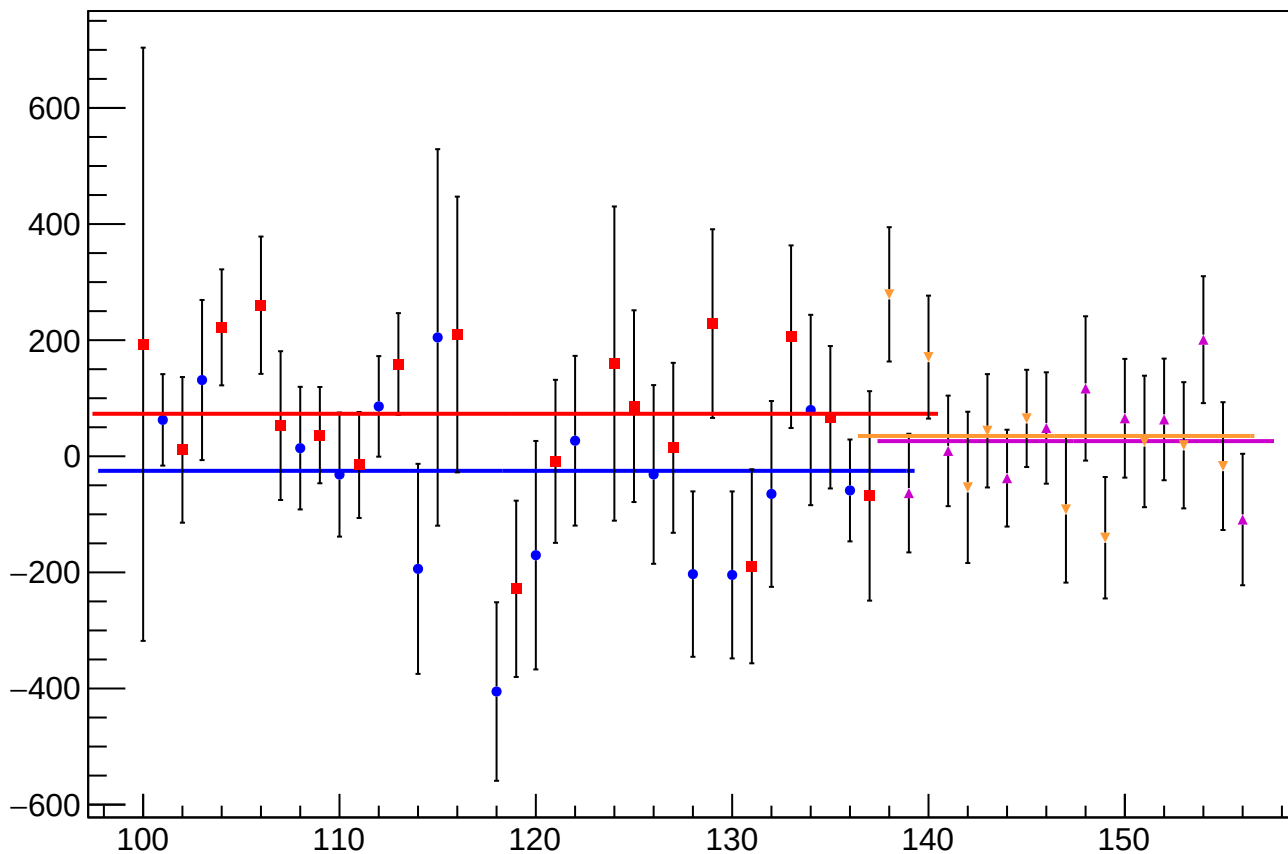
Right: 620.627+/-0.124 χ^2/NDF : 3969848.5/34

In: 658.896+/-0.125 χ^2/NDF : 2171499.6/24

Out: 634.043+/-0.120 χ^2/NDF : 2556659.3/28

All: 645.959+/-0.087 χ^2/NDF : 4748680.9/53

cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 34.998 ± 33.907 $\chi^2/\text{NDF}: 10.8/9$

Right Out: 73.193 ± 29.937 $\chi^2/\text{NDF}: 16.7/18$

Left In: 26.110 ± 33.871 $\chi^2/\text{NDF}: 6.2/8$

Left: 30.549 ± 23.963 $\chi^2/\text{NDF}: 17.0/18$

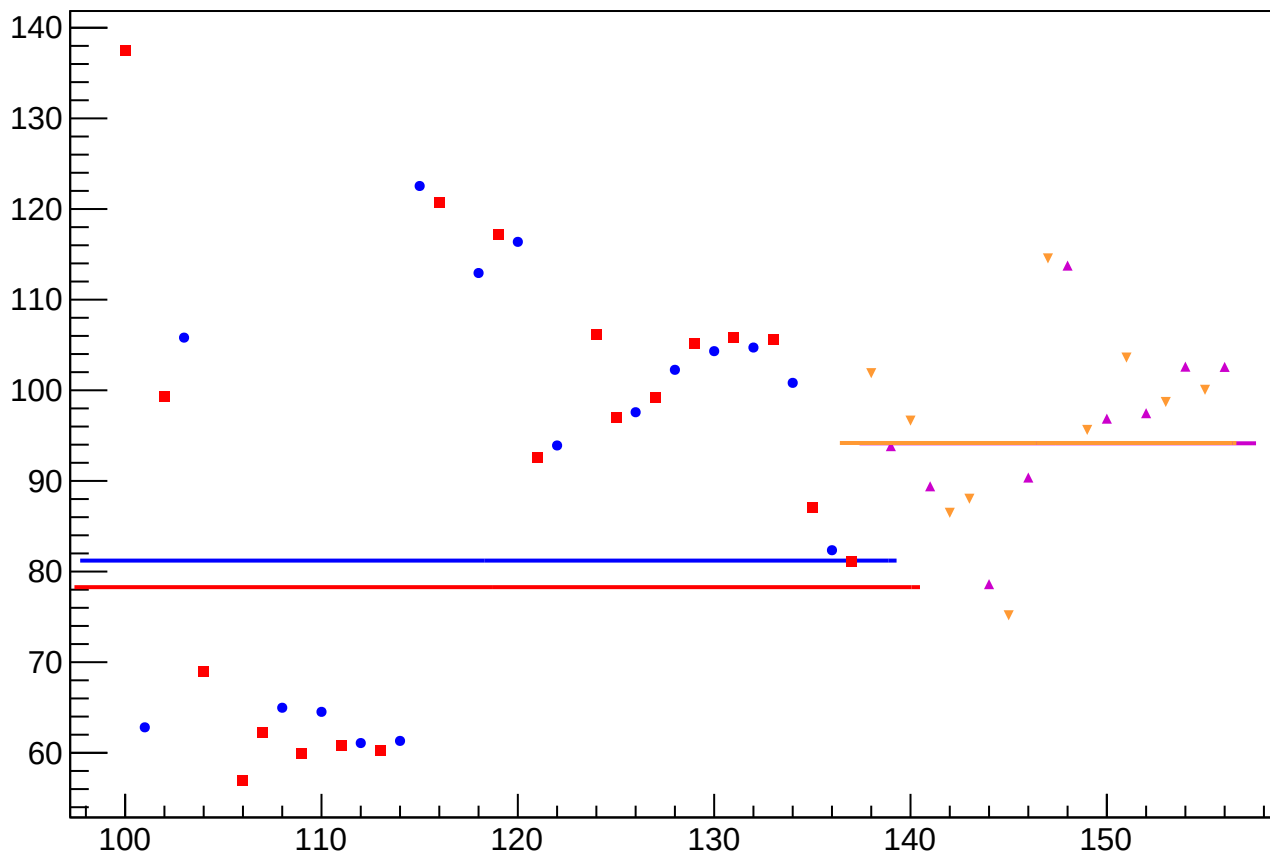
Right: 26.135 ± 21.611 $\chi^2/\text{NDF}: 38.1/34$

In: -1.556 ± 22.960 $\chi^2/\text{NDF}: 23.7/24$

Out: 56.461 ± 22.441 $\chi^2/\text{NDF}: 28.2/28$

All: 28.115 ± 16.049 $\chi^2/\text{NDF}: 55.1/53$

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: 94.187 $\pm$ 0.024 χ^2 /NDF: 203583.4/9

Right Out: 78.279 $\pm$ 0.021 χ^2 /NDF: 936812.2/18

Left In: 94.152 $\pm$ 0.024 χ^2 /NDF: 153756.0/8

Left: 94.169 $\pm$ 0.017 χ^2 /NDF: 357340.4/18

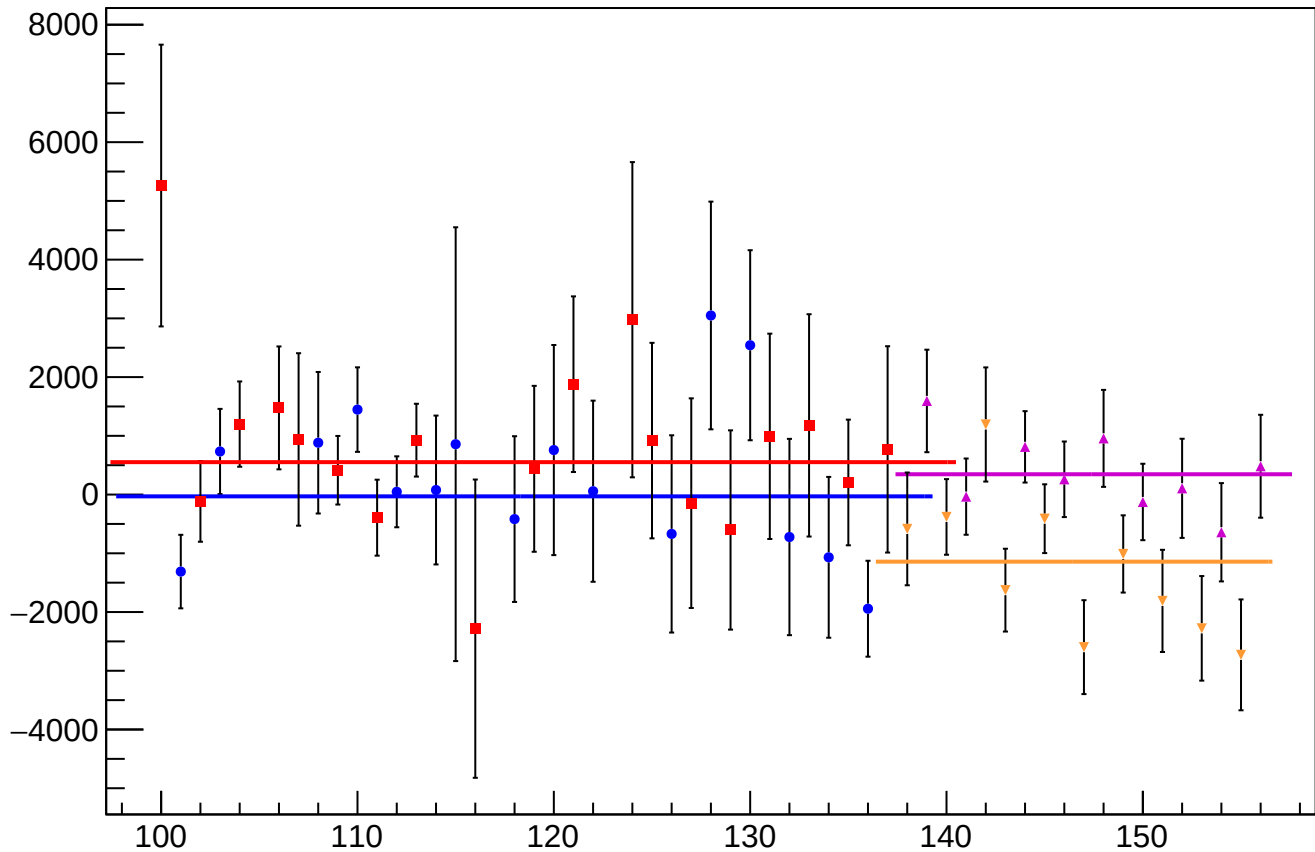
Right: 79.683 $\pm$ 0.015 χ^2 /NDF: 1733667.8/34

In: 87.157 $\pm$ 0.016 χ^2 /NDF: 1099265.3/24

Out: 85.248 $\pm$ 0.016 χ^2 /NDF: 1387772.0/28

All: 86.180 $\pm$ 0.011 χ^2 /NDF: 2494107.4/53

asym_sam_1548_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -30.434+/-257.002 χ^2/NDF : 21.9/15

Left Out: -1142.286+/-242.071 χ^2/NDF : 17.9/9

Right Out: 551.948+/-238.640 χ^2/NDF : 12.8/18

Left In: 345.967+/-244.168 χ^2/NDF : 5.6/8

Left: -404.578+/-171.907 χ^2/NDF : 42.2/18

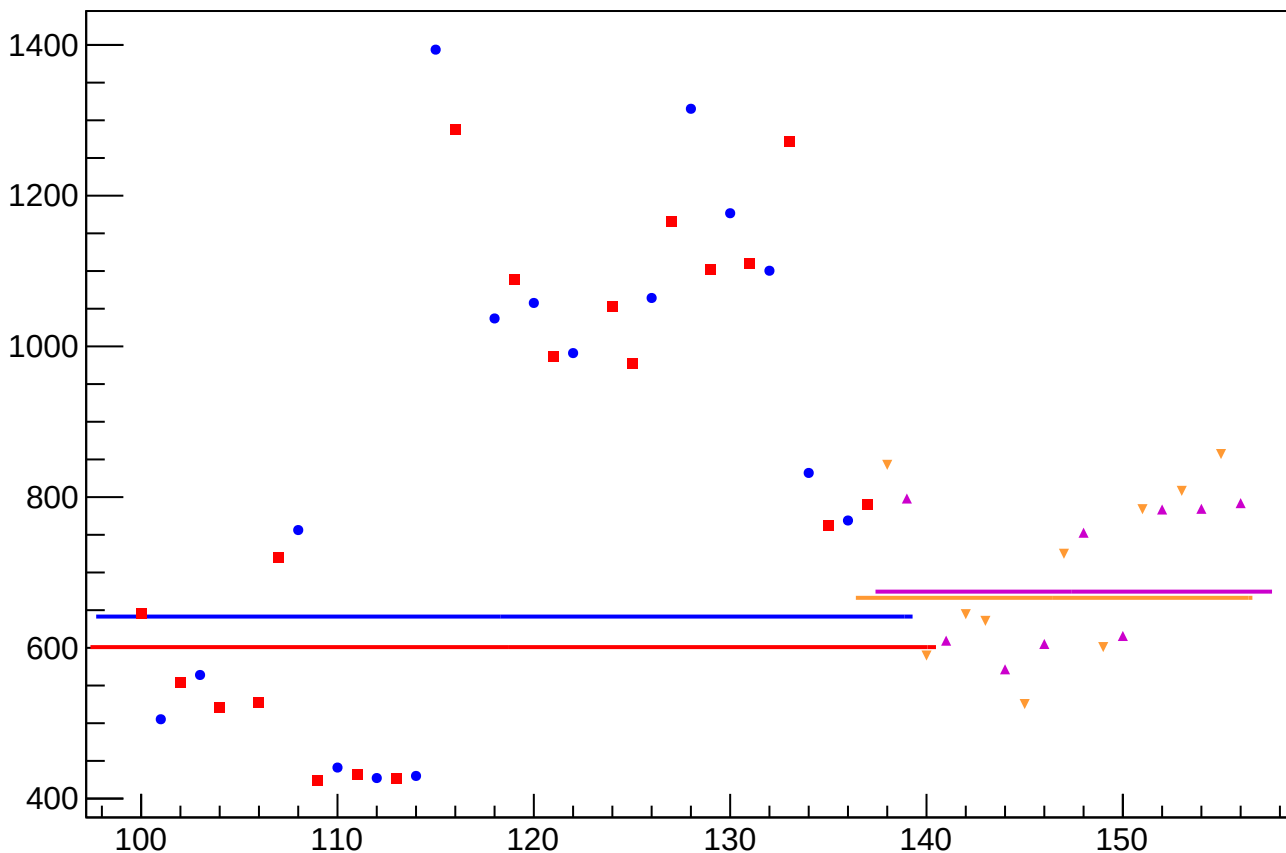
Right: 282.303+/-174.876 χ^2/NDF : 37.4/34

In: 167.400+/-177.016 χ^2/NDF : 28.6/24

Out: -283.077+/-169.944 χ^2/NDF : 55.6/28

All: -67.017+/-122.593 χ^2/NDF : 87.5/53

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: 666.381+/-0.171 χ^2/NDF : 416016.4/9

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 674.600+/-0.173 χ^2/NDF : 279068.9/8

Left: 670.455+/-0.122 χ^2/NDF : 696228.0/18

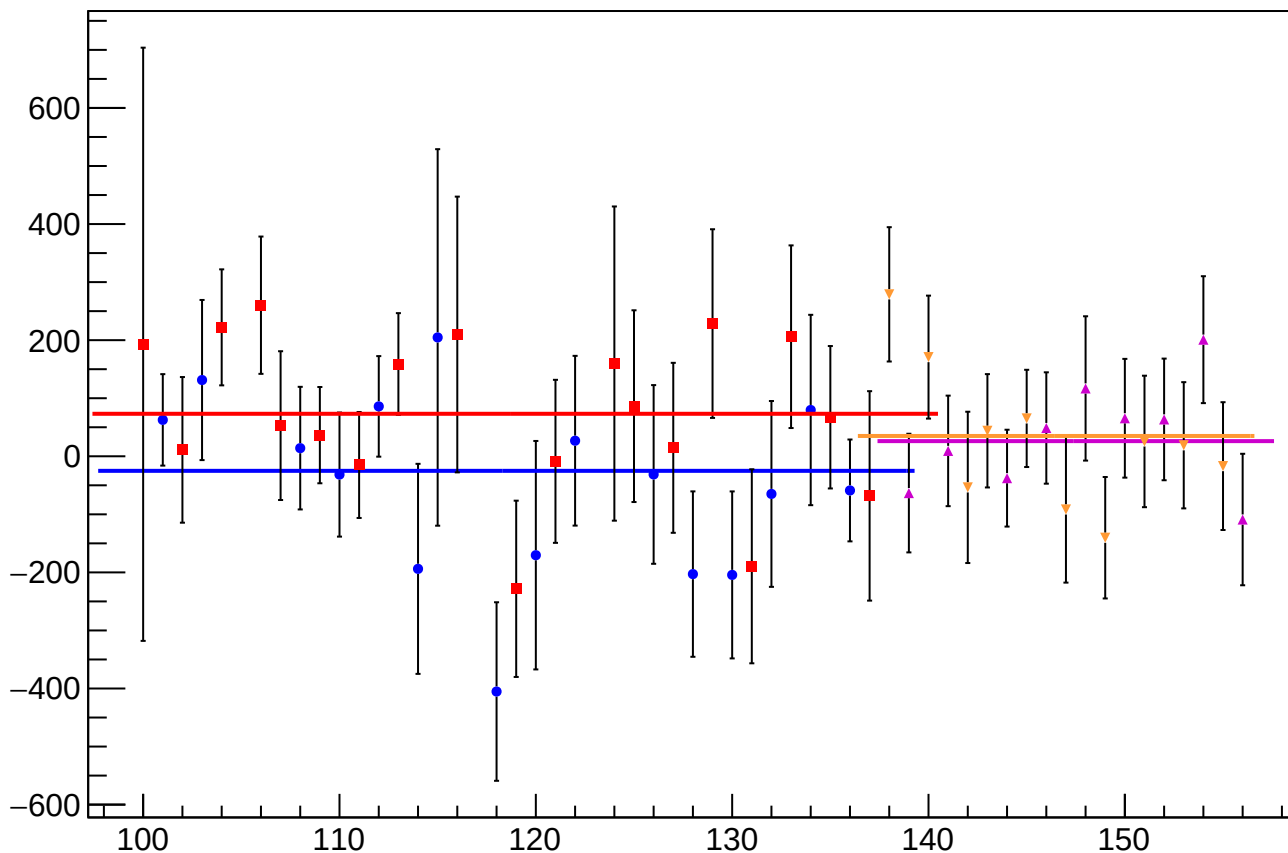
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 658.900+/-0.125 χ^2/NDF : 2171447.1/24

Out: 633.211+/-0.120 χ^2/NDF : 2567294.0/28

All: 645.532+/-0.087 χ^2/NDF : 4760659.9/53

eigen_cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 34.998 ± 33.907 $\chi^2/\text{NDF}: 10.8/9$

Right Out: 73.193 ± 29.937 $\chi^2/\text{NDF}: 16.7/18$

Left In: 26.110 ± 33.871 $\chi^2/\text{NDF}: 6.2/8$

Left: 30.549 ± 23.963 $\chi^2/\text{NDF}: 17.0/18$

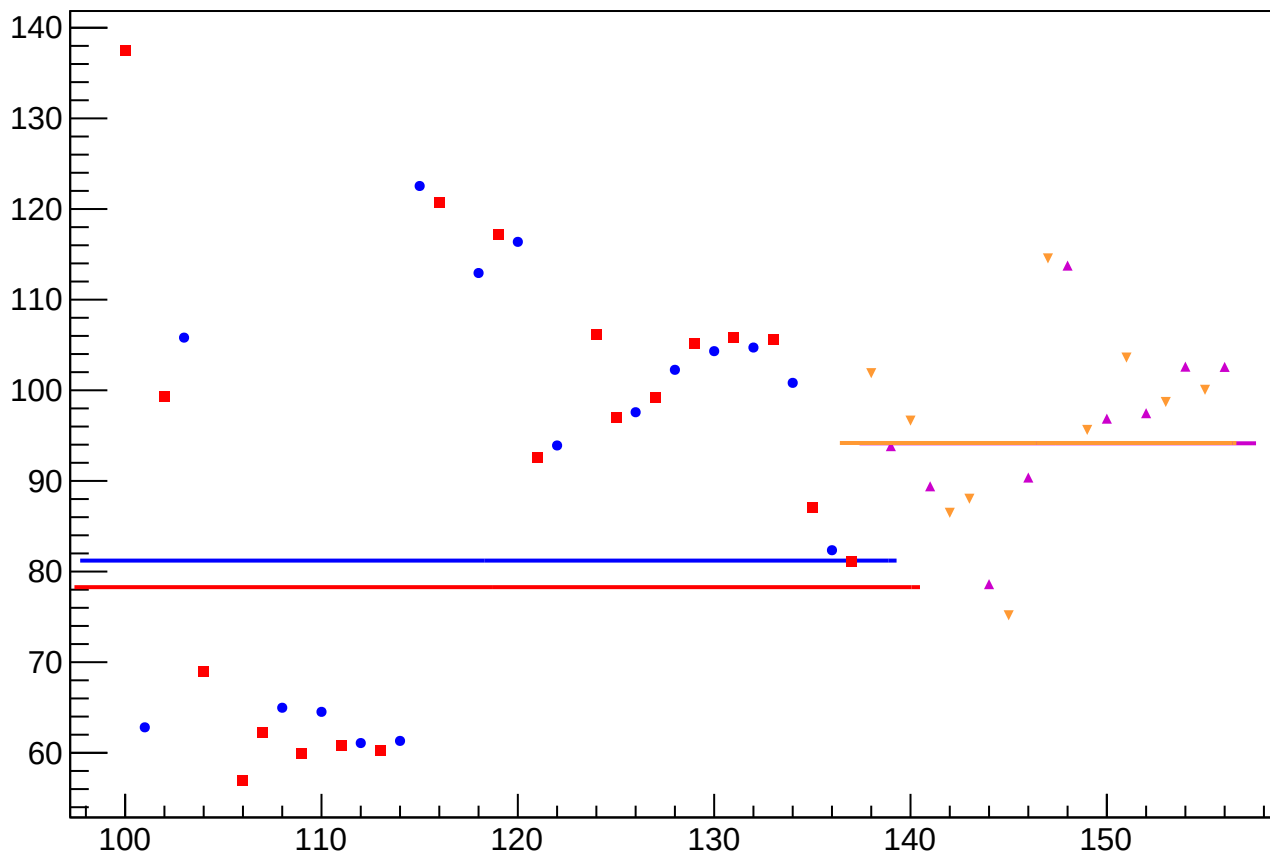
Right: 26.135 ± 21.611 $\chi^2/\text{NDF}: 38.1/34$

In: -1.556 ± 22.960 $\chi^2/\text{NDF}: 23.7/24$

Out: 56.461 ± 22.441 $\chi^2/\text{NDF}: 28.2/28$

All: 28.115 ± 16.049 $\chi^2/\text{NDF}: 55.1/53$

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: 94.187 $\pm$ 0.024 χ^2 /NDF: 203583.4/9

Right Out: 78.279 $\pm$ 0.021 χ^2 /NDF: 936812.2/18

Left In: 94.152 $\pm$ 0.024 χ^2 /NDF: 153756.0/8

Left: 94.169 $\pm$ 0.017 χ^2 /NDF: 357340.4/18

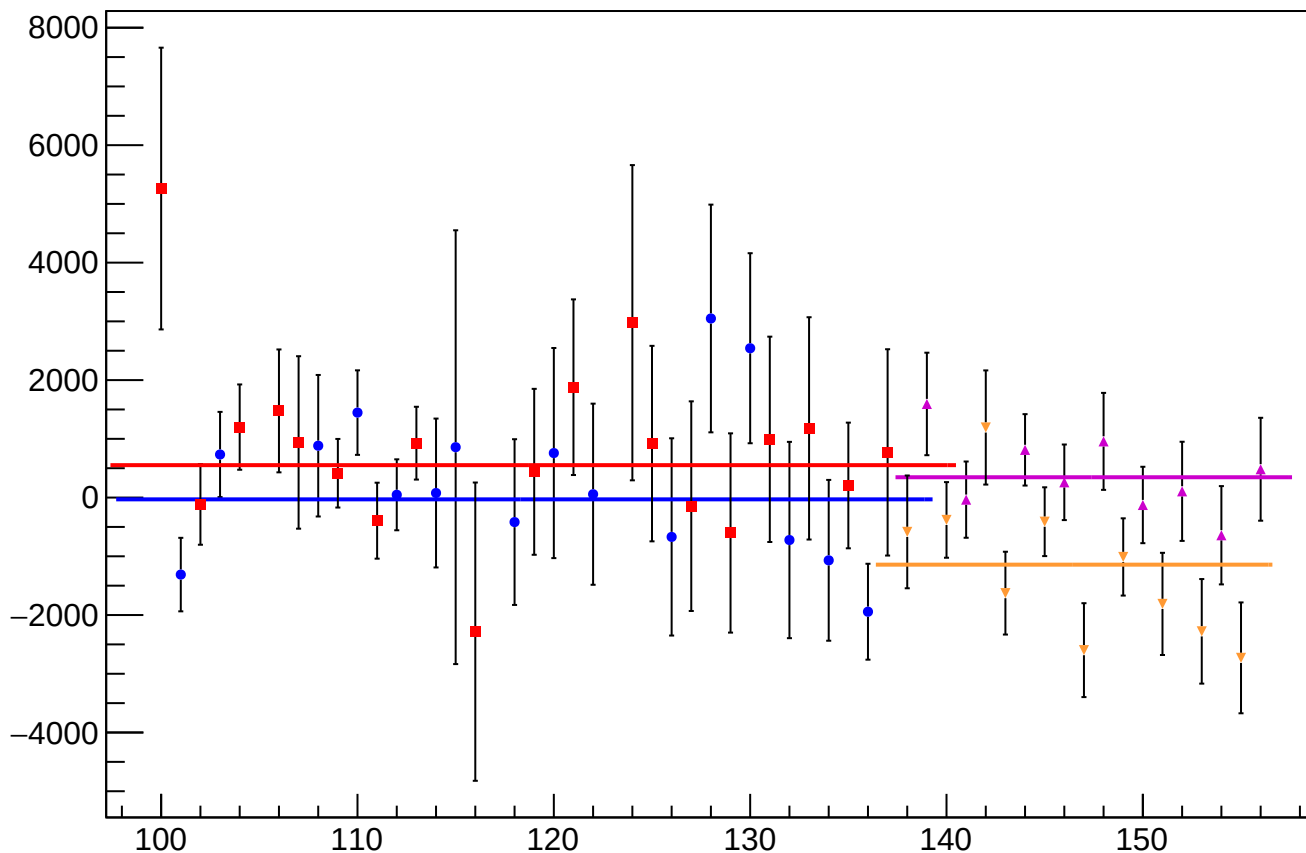
Right: 79.683 $\pm$ 0.015 χ^2 /NDF: 1733667.8/34

In: 87.157 $\pm$ 0.016 χ^2 /NDF: 1099265.3/24

Out: 85.248 $\pm$ 0.016 χ^2 /NDF: 1387772.0/28

All: 86.180 $\pm$ 0.011 χ^2 /NDF: 2494107.4/53

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: -1142.286 ± 242.071 $\chi^2/\text{NDF}: 17.9/9$

Right Out: 551.948 ± 238.640 $\chi^2/\text{NDF}: 12.8/18$

Left In: 345.967 ± 244.168 $\chi^2/\text{NDF}: 5.6/8$

Left: -404.578 ± 171.907 $\chi^2/\text{NDF}: 42.2/18$

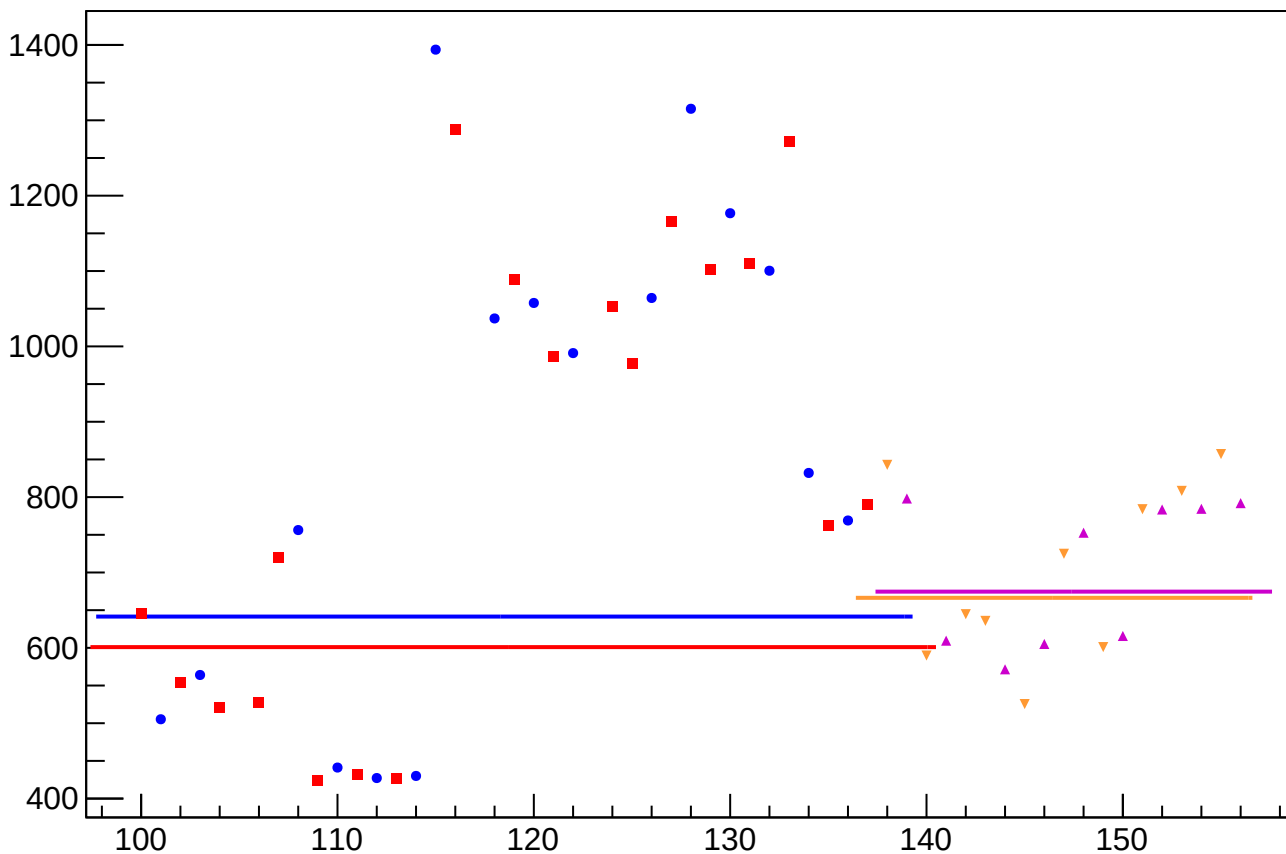
Right: 282.303 ± 174.876 $\chi^2/\text{NDF}: 37.4/34$

In: 167.400 ± 177.016 $\chi^2/\text{NDF}: 28.6/24$

Out: -283.077 ± 169.944 $\chi^2/\text{NDF}: 55.6/28$

All: -67.017 ± 122.593 $\chi^2/\text{NDF}: 87.5/53$

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: 666.381+/-0.171 χ^2/NDF : 416016.4/9

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 674.600+/-0.173 χ^2/NDF : 279068.9/8

Left: 670.455+/-0.122 χ^2/NDF : 696228.0/18

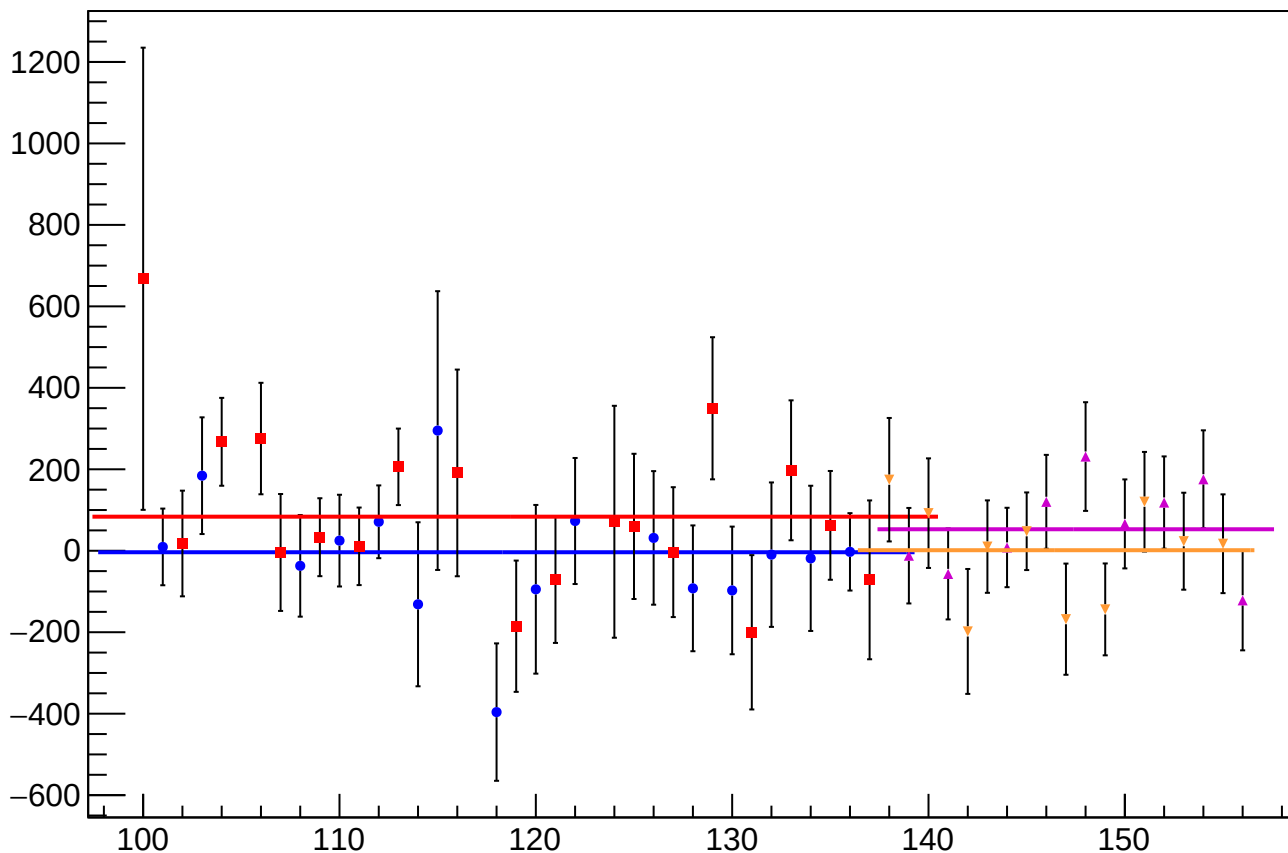
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 658.900+/-0.125 χ^2/NDF : 2171447.1/24

Out: 633.211+/-0.120 χ^2/NDF : 2567294.0/28

All: 645.532+/-0.087 χ^2/NDF : 4760659.9/53

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: 1.329 ± 38.723 $\chi^2/\text{NDF}: 7.9/9$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: 52.779 ± 38.155 $\chi^2/\text{NDF}: 7.0/8$

Left: 27.435 ± 27.178 $\chi^2/\text{NDF}: 15.8/18$

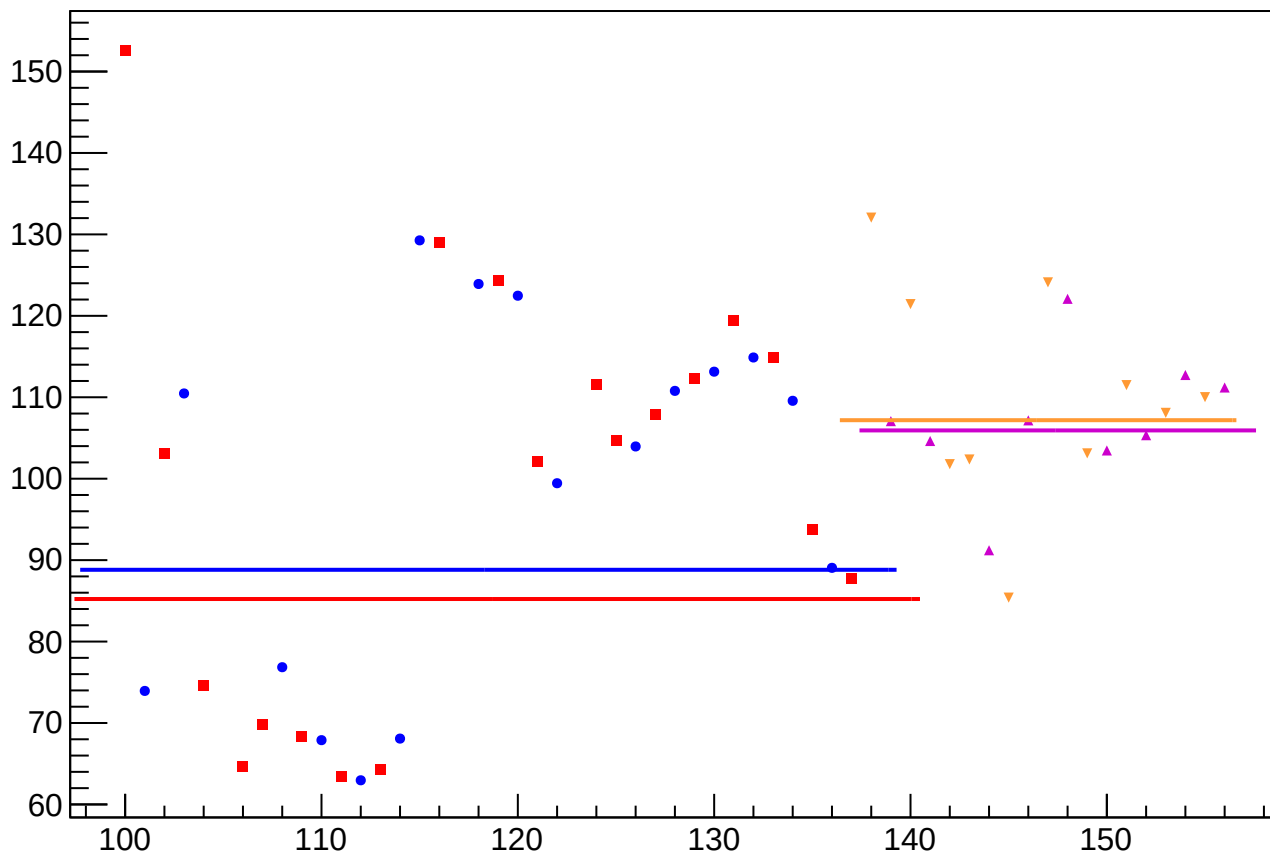
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: 21.459 ± 25.447 $\chi^2/\text{NDF}: 18.6/24$

Out: 49.481 ± 24.954 $\chi^2/\text{NDF}: 29.6/28$

All: 35.744 ± 17.817 $\chi^2/\text{NDF}: 48.8/53$

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: 107.184 $\pm$ 0.027 χ^2 /NDF: 224062.8/9

Right Out: 85.225 $\pm$ 0.023 χ^2 /NDF: 884071.4/18

Left In: 105.929 $\pm$ 0.027 χ^2 /NDF: 86789.4/8

Left: 106.547 $\pm$ 0.019 χ^2 /NDF: 311918.2/18

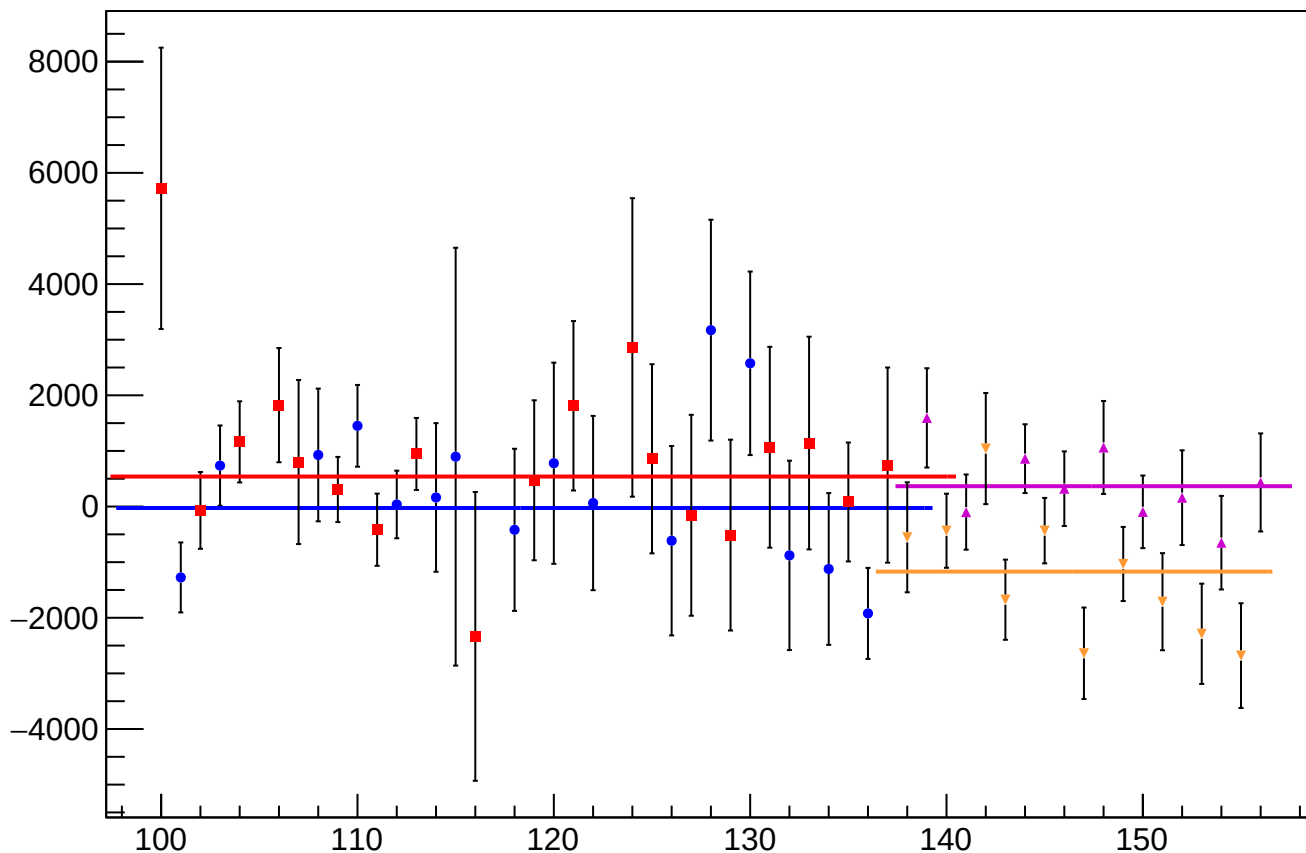
Right: 86.937 $\pm$ 0.017 χ^2 /NDF: 1620225.0/34

In: 96.426 $\pm$ 0.018 χ^2 /NDF: 1034826.2/24

Out: 94.343 $\pm$ 0.018 χ^2 /NDF: 1484208.2/28

All: 95.365 $\pm$ 0.013 χ^2 /NDF: 2525866.9/53

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: -1169.553 ± 246.263 χ^2/NDF : 16.3/9

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 366.016 ± 248.974 χ^2/NDF : 5.7/8

Left: -410.172 ± 175.085 χ^2/NDF : 41.2/18

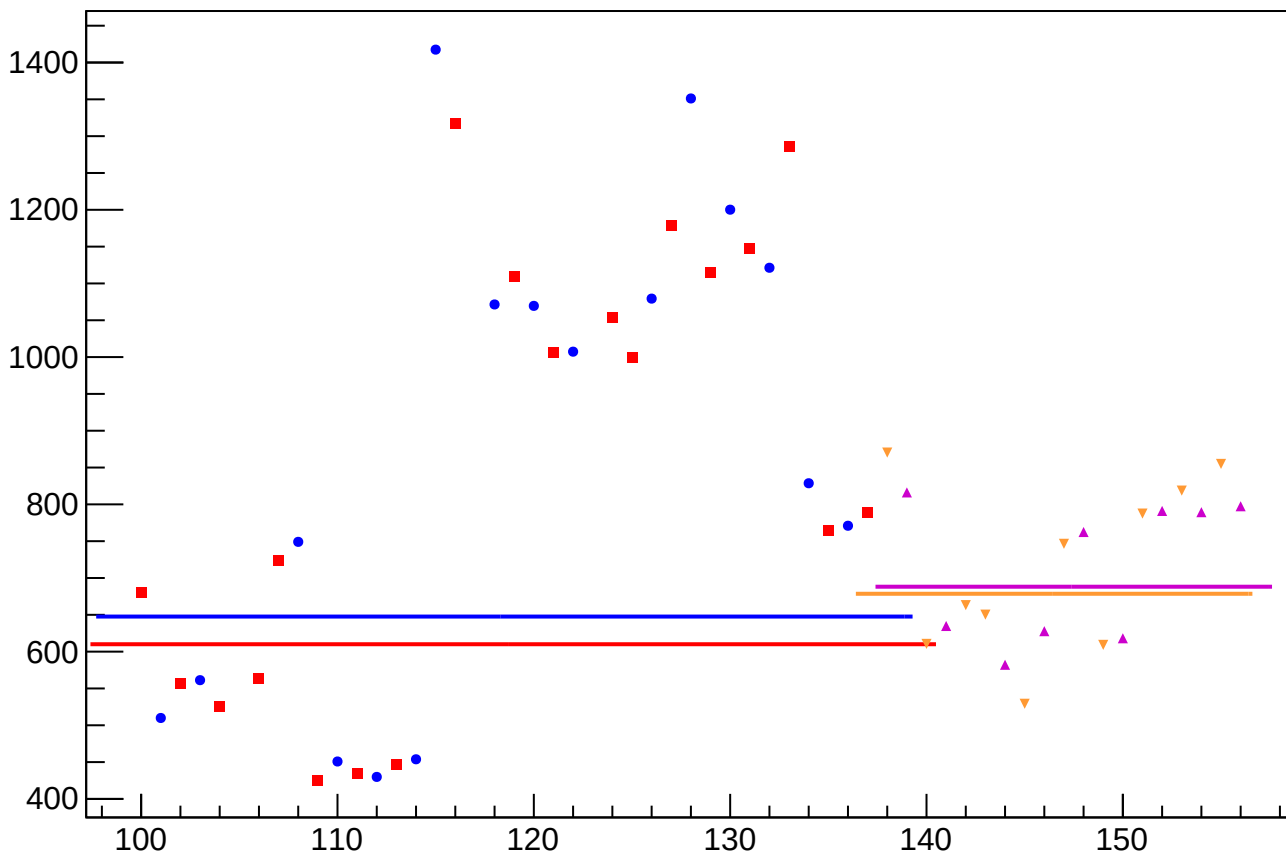
Right: 277.418 ± 176.654 χ^2/NDF : 37.7/34

In: 178.156 ± 179.624 χ^2/NDF : 28.5/24

Out: -297.343 ± 172.330 χ^2/NDF : 54.5/28

All: -69.444 ± 124.355 χ^2/NDF : 86.6/53

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: 678.582 $\pm$ 0.174 χ^2 /NDF: 413305.6/9

Right Out: 610.061 $\pm$ 0.171 χ^2 /NDF: 2074248.2/18

Left In: 688.171 $\pm$ 0.176 χ^2 /NDF: 256146.9/8

Left: 683.324 $\pm$ 0.124 χ^2 /NDF: 670952.1/18

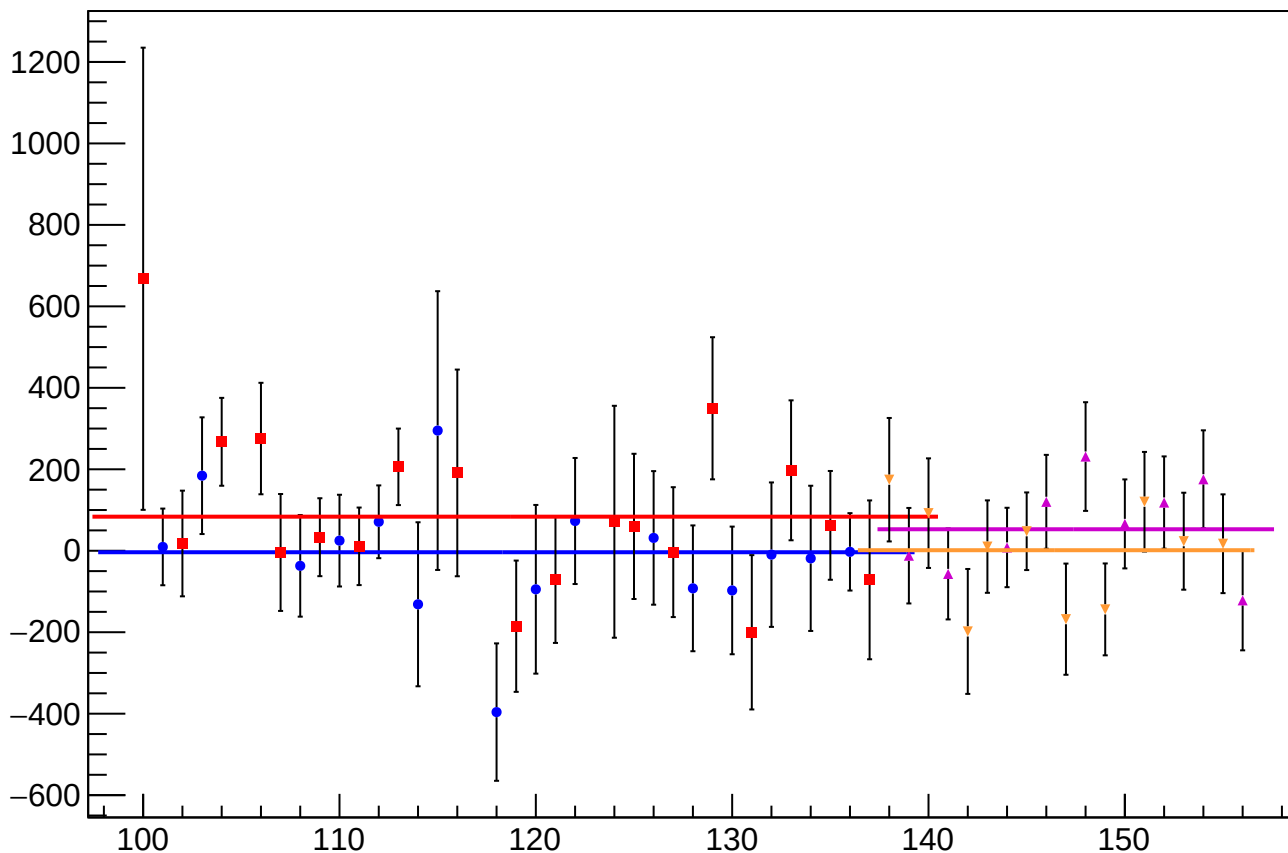
Right: 627.489 $\pm$ 0.125 χ^2 /NDF: 3984572.9/34

In: 668.737 $\pm$ 0.127 χ^2 /NDF: 2169377.1/24

Out: 643.615 $\pm$ 0.122 χ^2 /NDF: 2566570.2/28

All: 655.656 $\pm$ 0.088 χ^2 /NDF: 4756317.9/53

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: 1.330 ± 38.723 $\chi^2/\text{NDF}: 7.9/9$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: 52.780 ± 38.155 $\chi^2/\text{NDF}: 7.0/8$

Left: 27.436 ± 27.178 $\chi^2/\text{NDF}: 15.8/18$

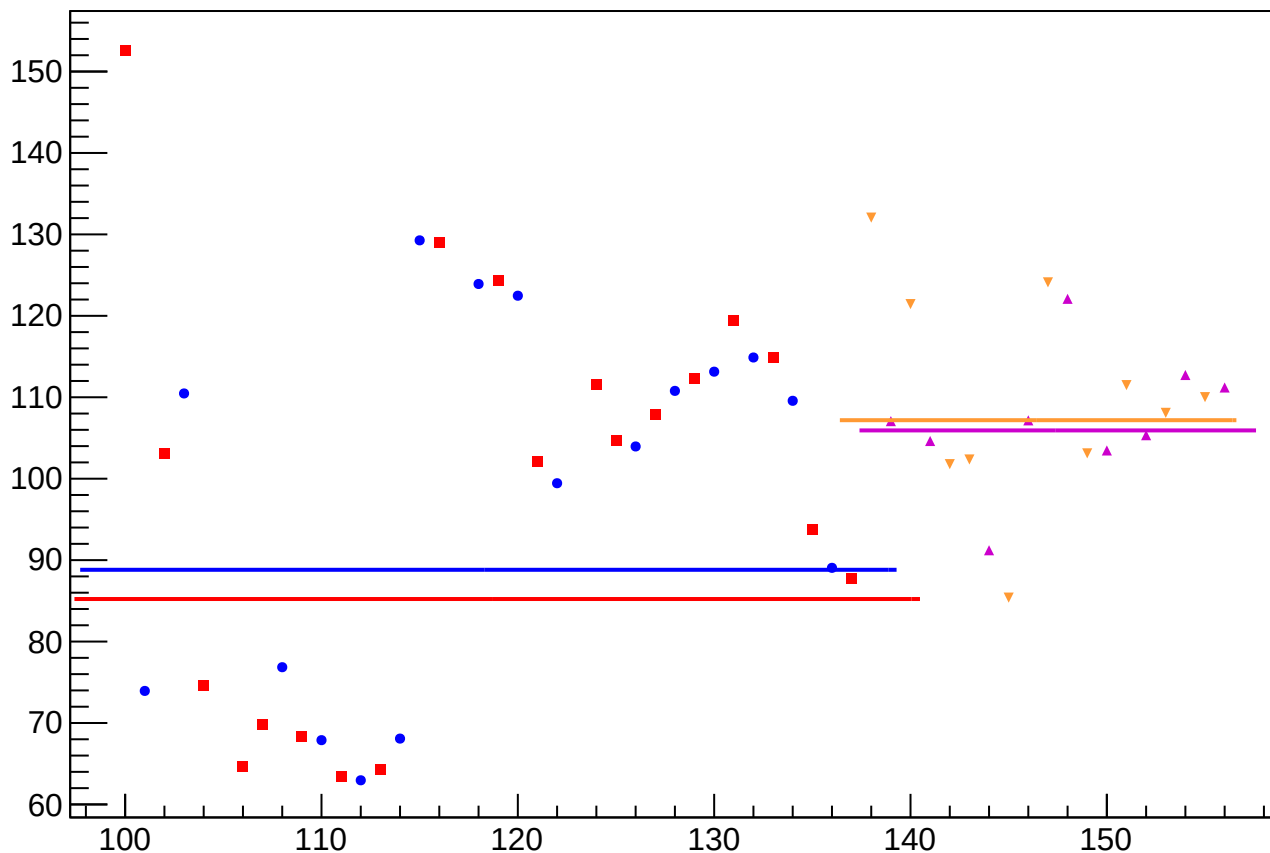
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: 21.460 ± 25.447 $\chi^2/\text{NDF}: 18.6/24$

Out: 49.481 ± 24.954 $\chi^2/\text{NDF}: 29.6/28$

All: 35.745 ± 17.817 $\chi^2/\text{NDF}: 48.8/53$

eigen_dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 88.813 $\pm$ 0.024 χ^2 /NDF: 724609.7/15

Left Out: 107.184 $\pm$ 0.027 χ^2 /NDF: 224061.2/9

Right Out: 85.225 $\pm$ 0.023 χ^2 /NDF: 884073.3/18

Left In: 105.929 $\pm$ 0.027 χ^2 /NDF: 86789.0/8

Left: 106.547 $\pm$ 0.019 χ^2 /NDF: 311916.3/18

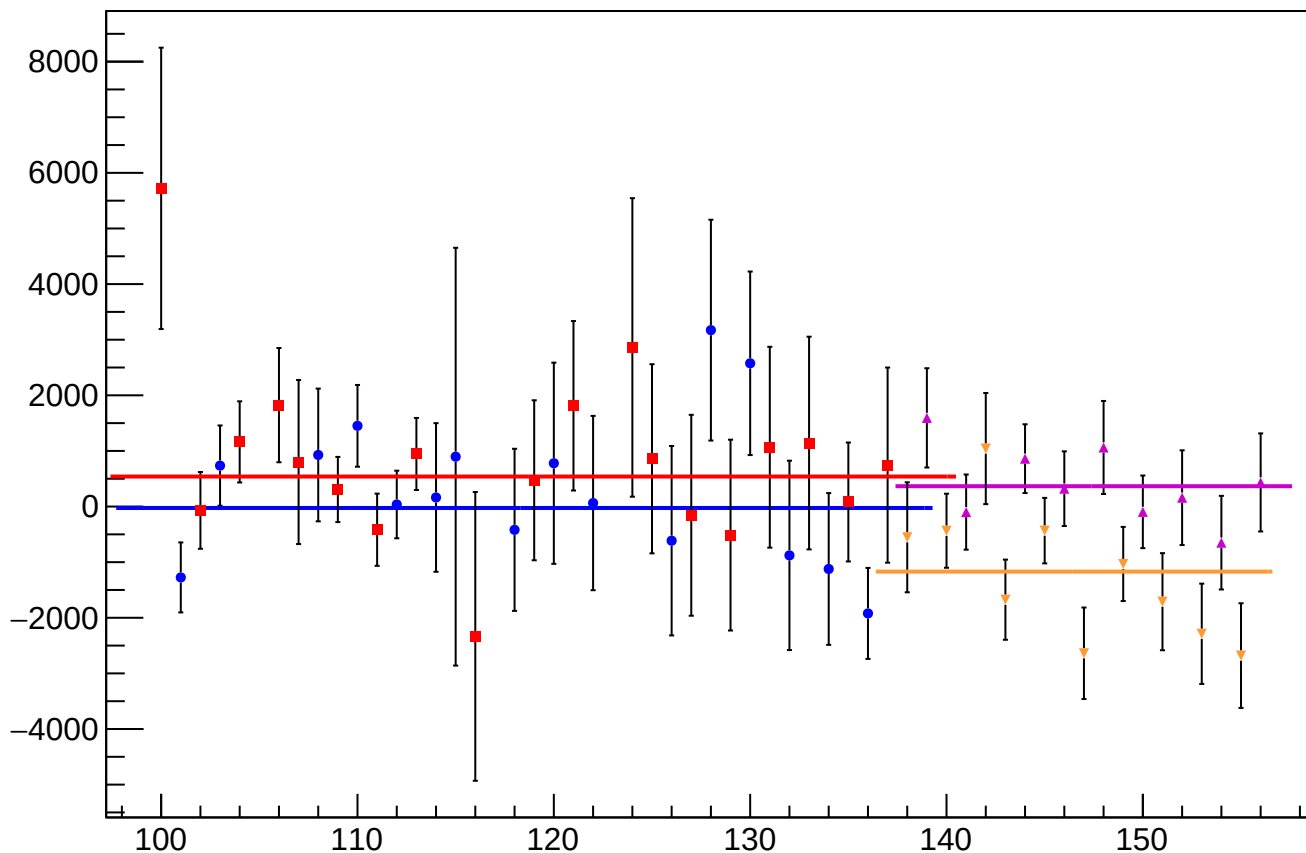
Right: 86.937 $\pm$ 0.017 χ^2 /NDF: 1620226.9/34

In: 96.427 $\pm$ 0.018 χ^2 /NDF: 1034832.6/24

Out: 94.343 $\pm$ 0.018 χ^2 /NDF: 1484217.3/28

All: 95.365 $\pm$ 0.013 χ^2 /NDF: 2525882.5/53

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: -1169.551 ± 246.263 χ^2/NDF : 16.3/9

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 366.016 ± 248.974 χ^2/NDF : 5.7/8

Left: -410.171 ± 175.085 χ^2/NDF : 41.2/18

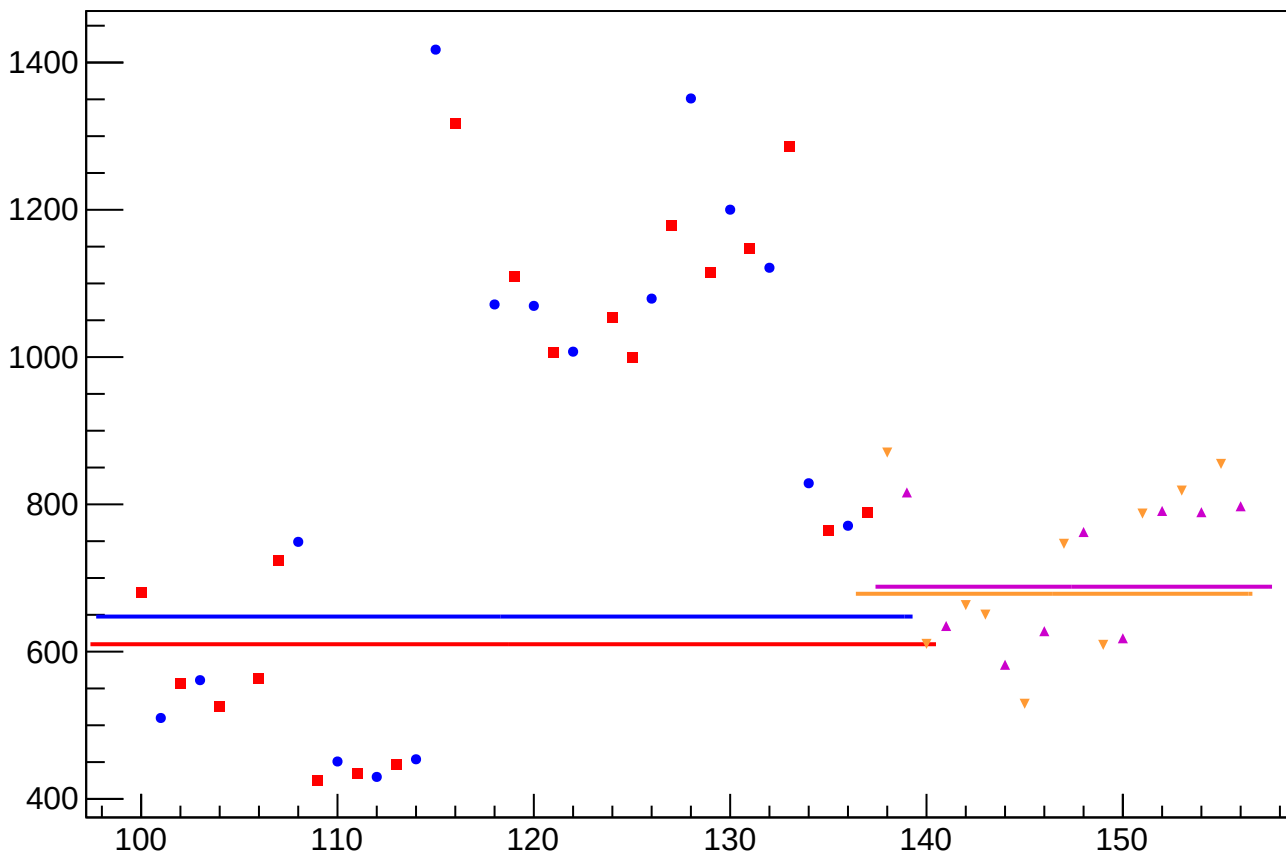
Right: 277.418 ± 176.653 χ^2/NDF : 37.7/34

In: 178.156 ± 179.624 χ^2/NDF : 28.5/24

Out: -297.342 ± 172.330 χ^2/NDF : 54.5/28

All: -69.443 ± 124.355 χ^2/NDF : 86.6/53

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: 678.582 +/- 0.174 χ^2/NDF : 413306.9/9

Right Out: 610.060 +/- 0.171 χ^2/NDF : 2074251.1/18

Left In: 688.171 +/- 0.176 χ^2/NDF : 256145.4/8

Left: 683.324 +/- 0.124 χ^2/NDF : 670952.0/18

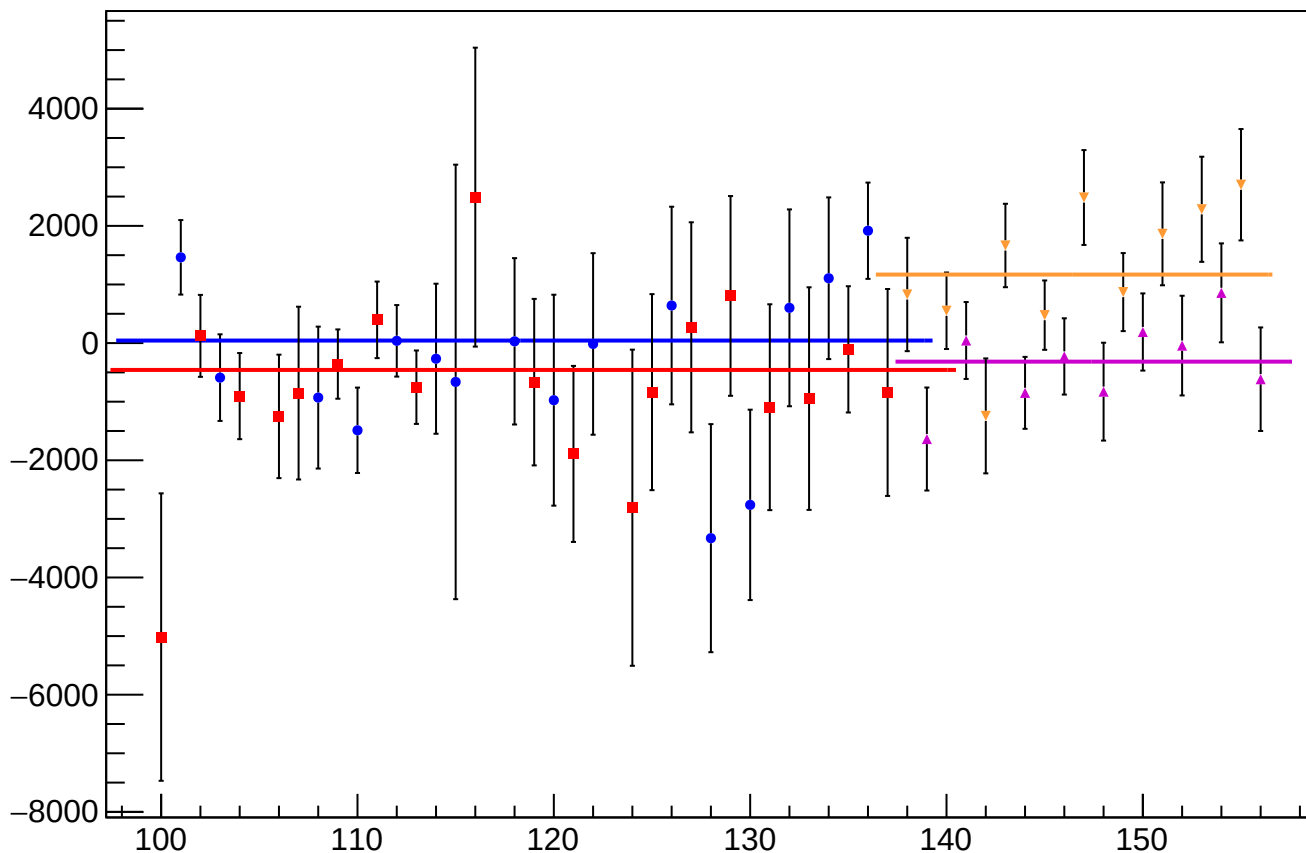
Right: 627.488 +/- 0.125 χ^2/NDF : 3984580.5/34

In: 668.737 +/- 0.127 χ^2/NDF : 2169381.3/24

Out: 643.615 +/- 0.122 χ^2/NDF : 2566575.4/28

All: 655.655 +/- 0.088 χ^2/NDF : 4756327.4/53

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 43.152+/-259.796 χ^2/NDF : 23.2/15

Left Out: 1169.063+/-244.601 χ^2/NDF : 16.5/9

Right Out: -458.111+/-241.118 χ^2/NDF : 11.3/18

Left In: -316.730+/-246.629 χ^2/NDF : 6.5/8

Left: 432.300+/-173.672 χ^2/NDF : 41.3/18

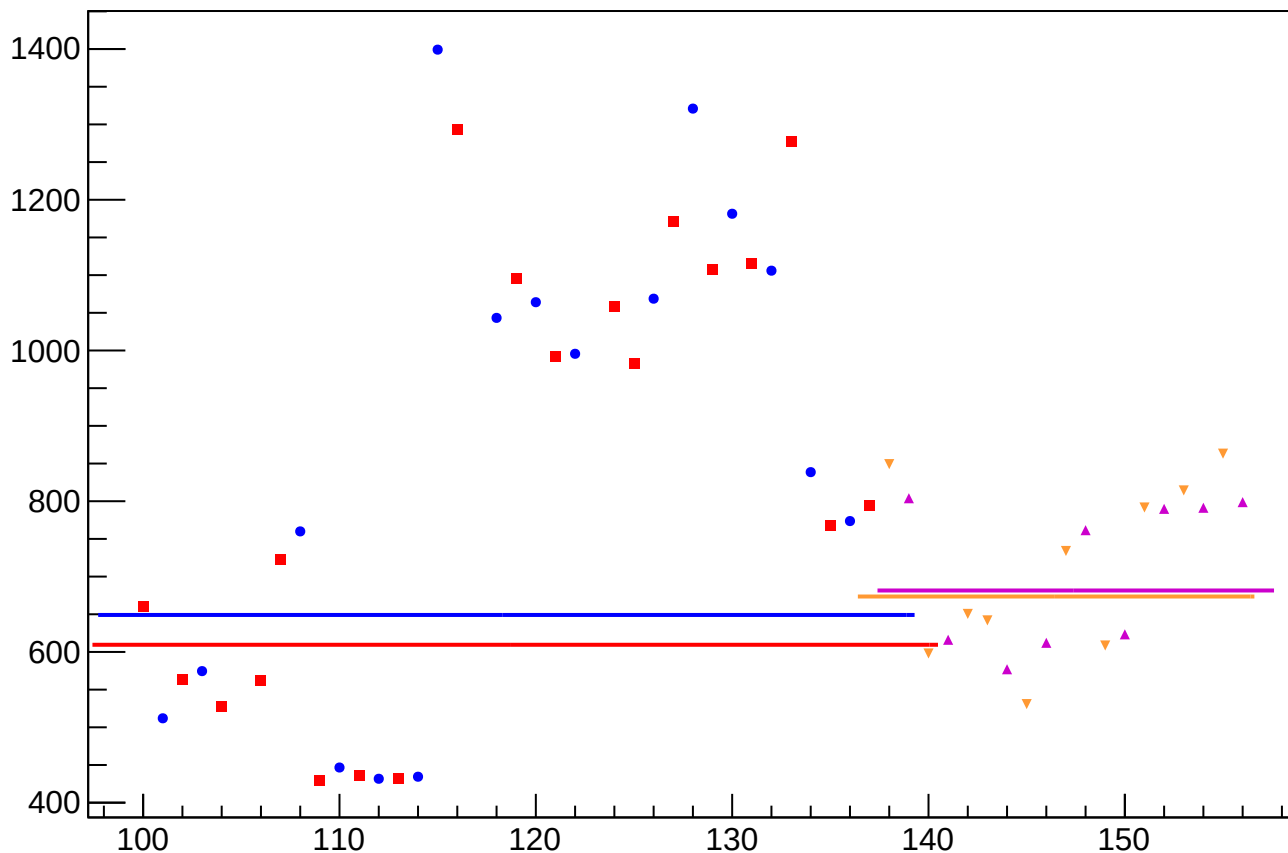
Right: -226.145+/-176.731 χ^2/NDF : 36.5/34

In: -146.140+/-178.867 χ^2/NDF : 30.7/24

Out: 343.806+/-171.714 χ^2/NDF : 50.2/28

All: 108.825+/-123.872 χ^2/NDF : 84.8/53

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 649.091 $\pm$ 0.184 χ^2/NDF : 1845815.6/15

Left Out: 673.553 $\pm$ 0.173 χ^2/NDF : 409484.6/9

Right Out: 609.516 $\pm$ 0.170 χ^2/NDF : 2043591.1/18

Left In: 681.549 $\pm$ 0.174 χ^2/NDF : 274869.1/8

Left: 677.518 $\pm$ 0.123 χ^2/NDF : 685413.7/18

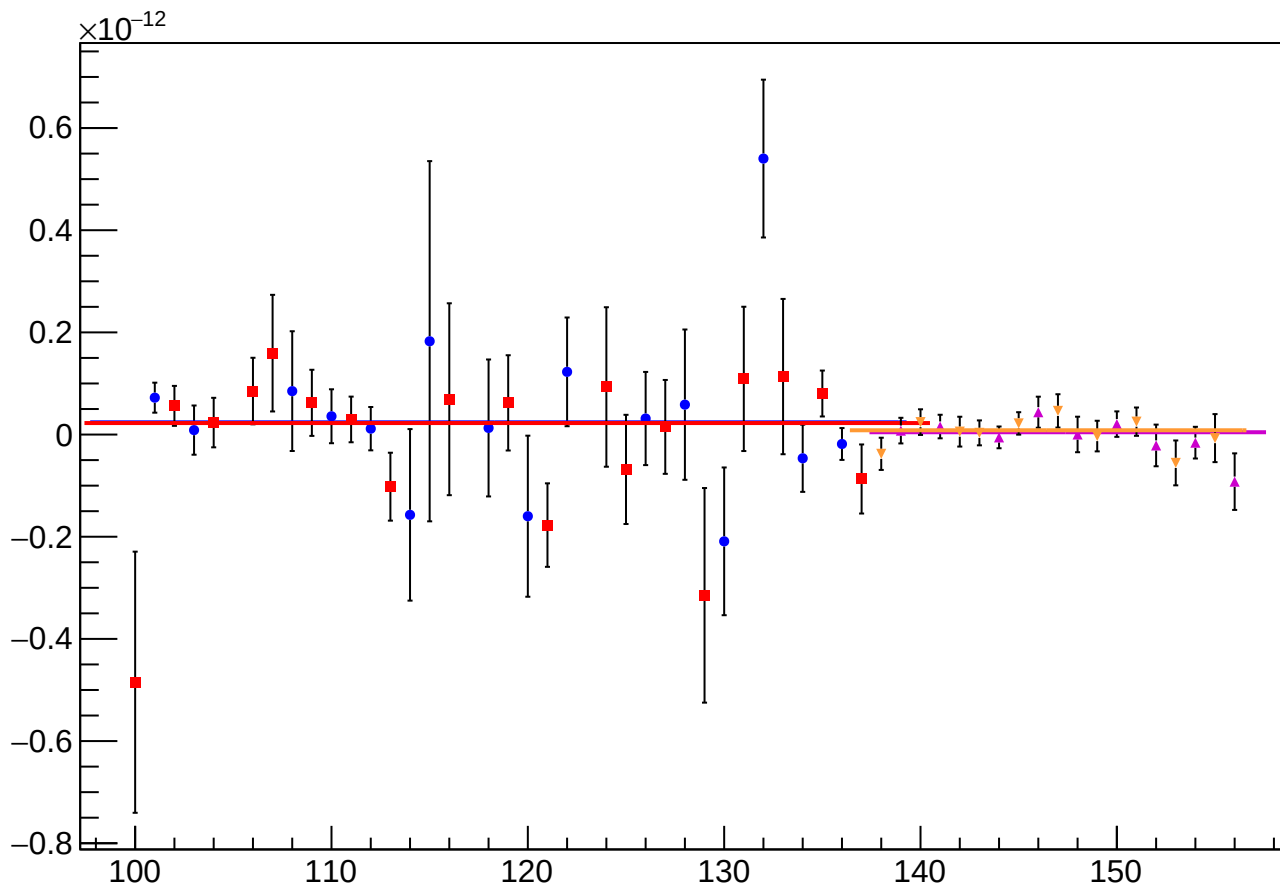
Right: 627.830 $\pm$ 0.125 χ^2/NDF : 3914338.8/34

In: 666.163 $\pm$ 0.126 χ^2/NDF : 2137105.6/24

Out: 641.075 $\pm$ 0.121 χ^2/NDF : 2522597.9/28

All: 653.108 $\pm$ 0.088 χ^2/NDF : 4680179.0/53

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 : 7.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 6.4/8

Left: 0.000+/-0.000 χ^2/NDF : 13.6/18

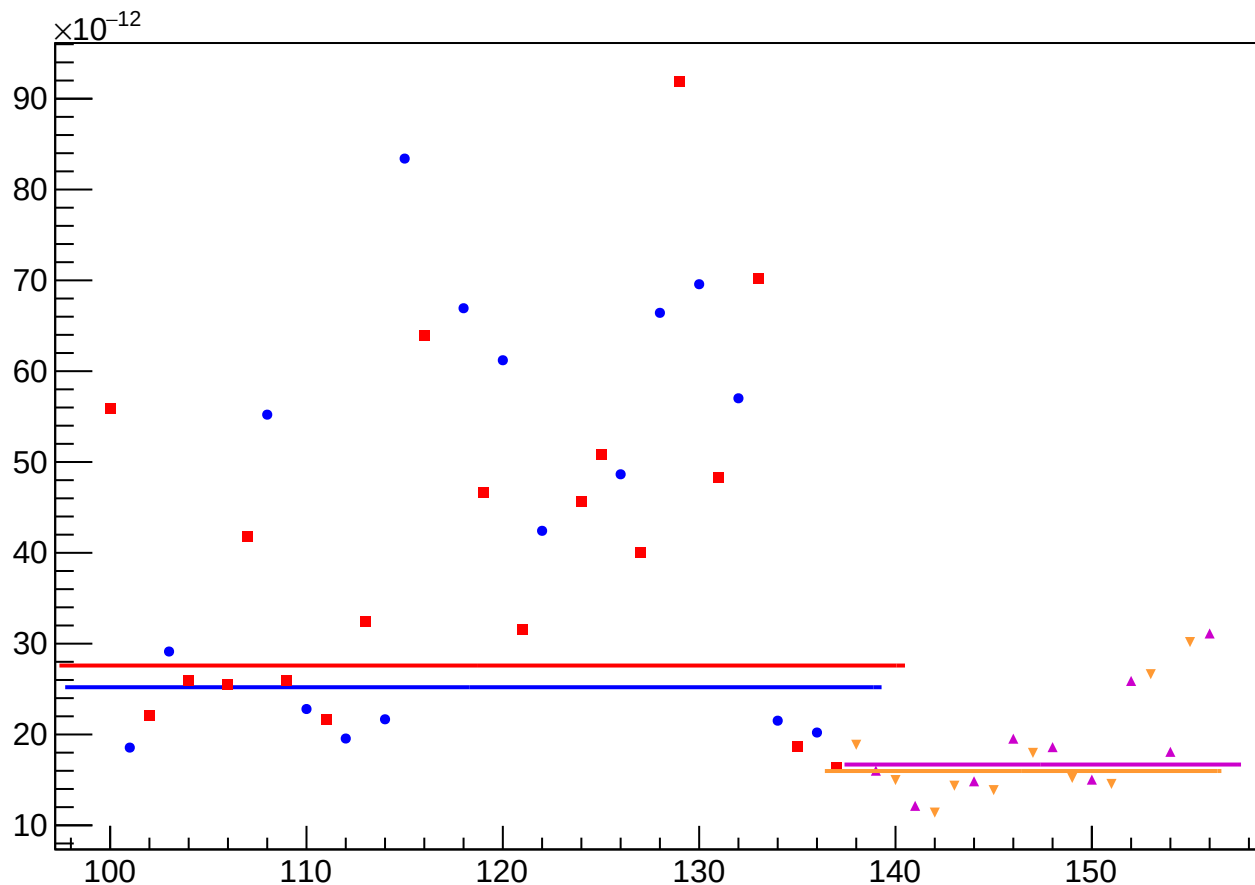
Right: 0.000+/-0.000 χ^2/NDF : 49.3/34

In: 0.000+/-0.000 χ^2/NDF : 31.2/24

Out: 0.000+/-0.000 χ^2/NDF : 33.3/28

All: 0.000+/-0.000 χ^2/NDF : 64.6/53

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 : 410644.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 988490.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 368748.4/8

Left: 0.000+/-0.000 χ^2/NDF : 785258.2/18

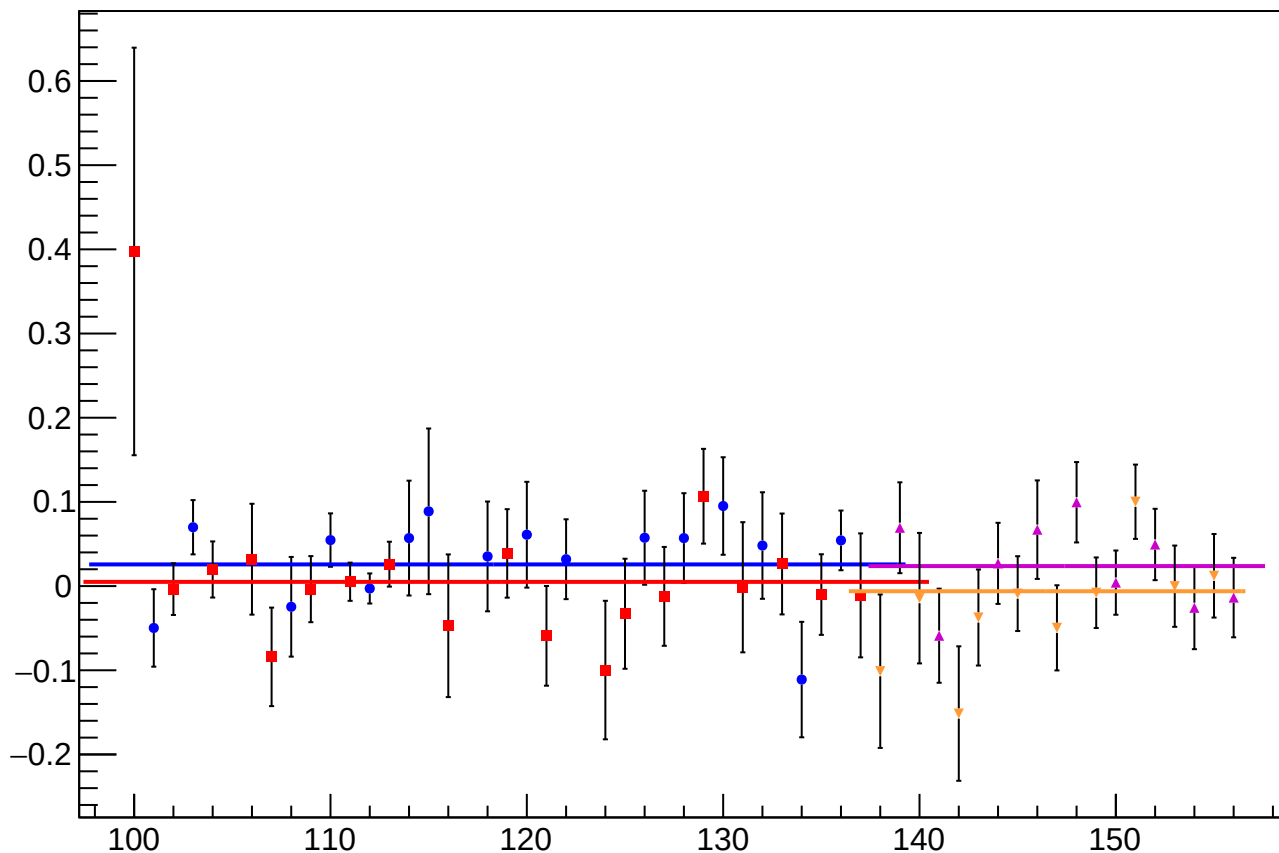
Right: 0.000+/-0.000 χ^2/NDF : 2323625.0/34

In: 0.000+/-0.000 χ^2/NDF : 2132507.0/24

Out: 0.000+/-0.000 χ^2/NDF : 2166657.8/28

All: 0.000+/-0.000 χ^2/NDF : 4300573.0/53

asym_sam_1548_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.010 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.006 ± 0.017 $\chi^2/\text{NDF}: 11.4/9$

Right Out: 0.005 ± 0.010 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.024 ± 0.016 $\chi^2/\text{NDF}: 8.2/8$

Left: 0.010 ± 0.012 $\chi^2/\text{NDF}: 21.3/18$

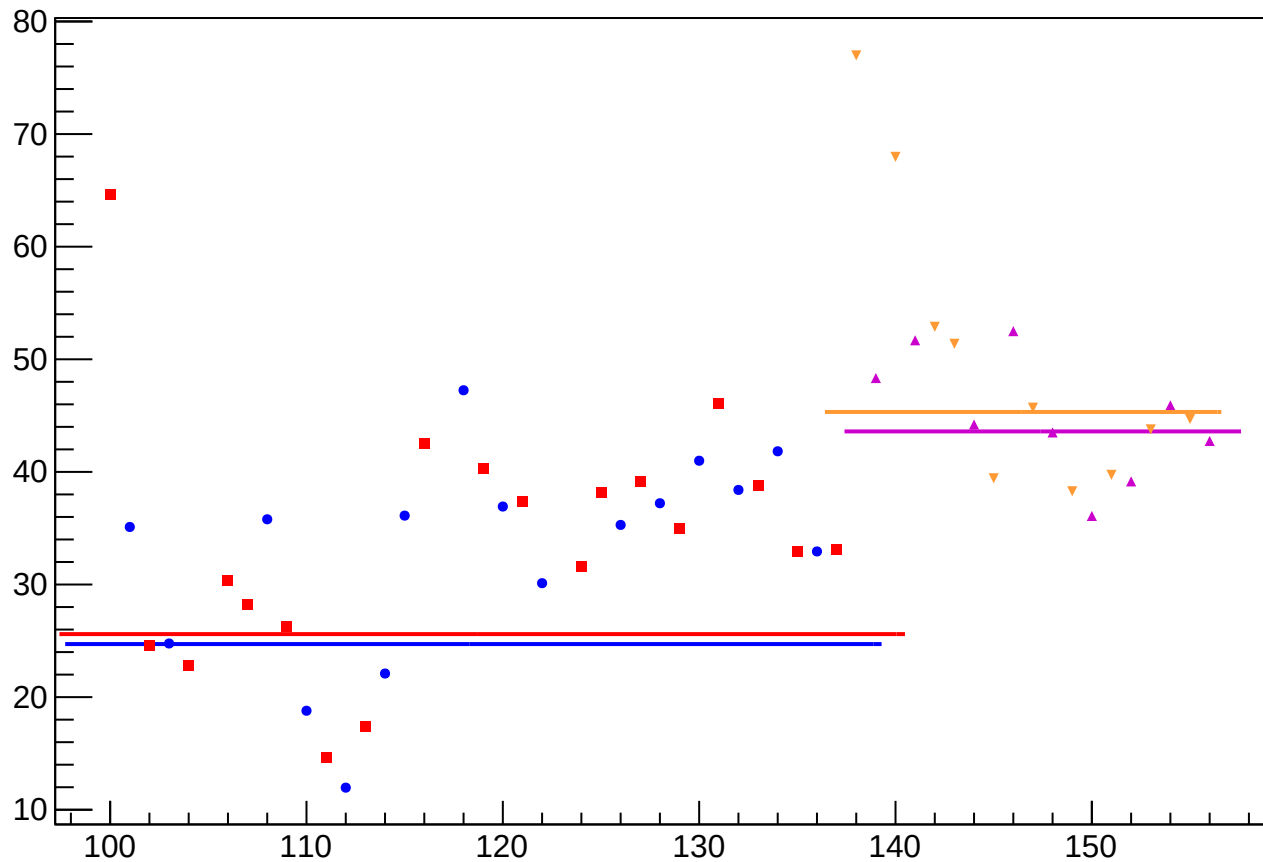
Right: 0.015 ± 0.007 $\chi^2/\text{NDF}: 32.1/34$

In: 0.025 ± 0.009 $\chi^2/\text{NDF}: 24.8/24$

Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 25.3/28$

All: 0.014 ± 0.006 $\chi^2/\text{NDF}: 53.6/53$

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: 45.324 $\pm$ 0.012 χ^2 /NDF: 578778.6/9

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605235.8/18

Left In: 43.595 $\pm$ 0.011 χ^2 /NDF: 208383.7/8

Left: 44.417 $\pm$ 0.008 χ^2 /NDF: 798342.2/18

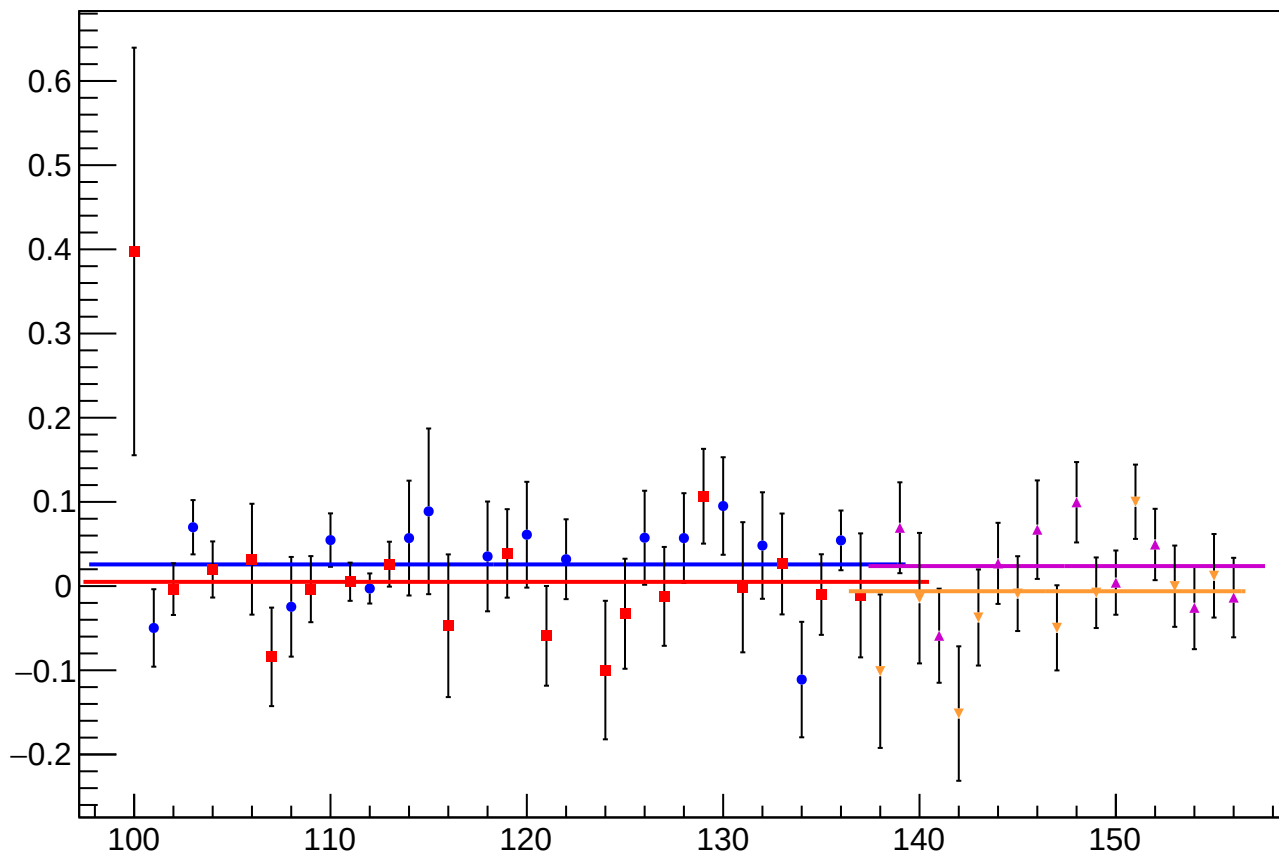
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3907717.2/34

In: 30.313 $\pm$ 0.006 χ^2 /NDF: 4475355.8/24

Out: 31.048 $\pm$ 0.006 χ^2 /NDF: 4192292.3/28

All: 30.675 $\pm$ 0.004 χ^2 /NDF: 8674719.1/53

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.010 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.006 ± 0.017 $\chi^2/\text{NDF}: 11.4/9$

Right Out: 0.005 ± 0.010 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.024 ± 0.016 $\chi^2/\text{NDF}: 8.2/8$

Left: 0.010 ± 0.012 $\chi^2/\text{NDF}: 21.3/18$

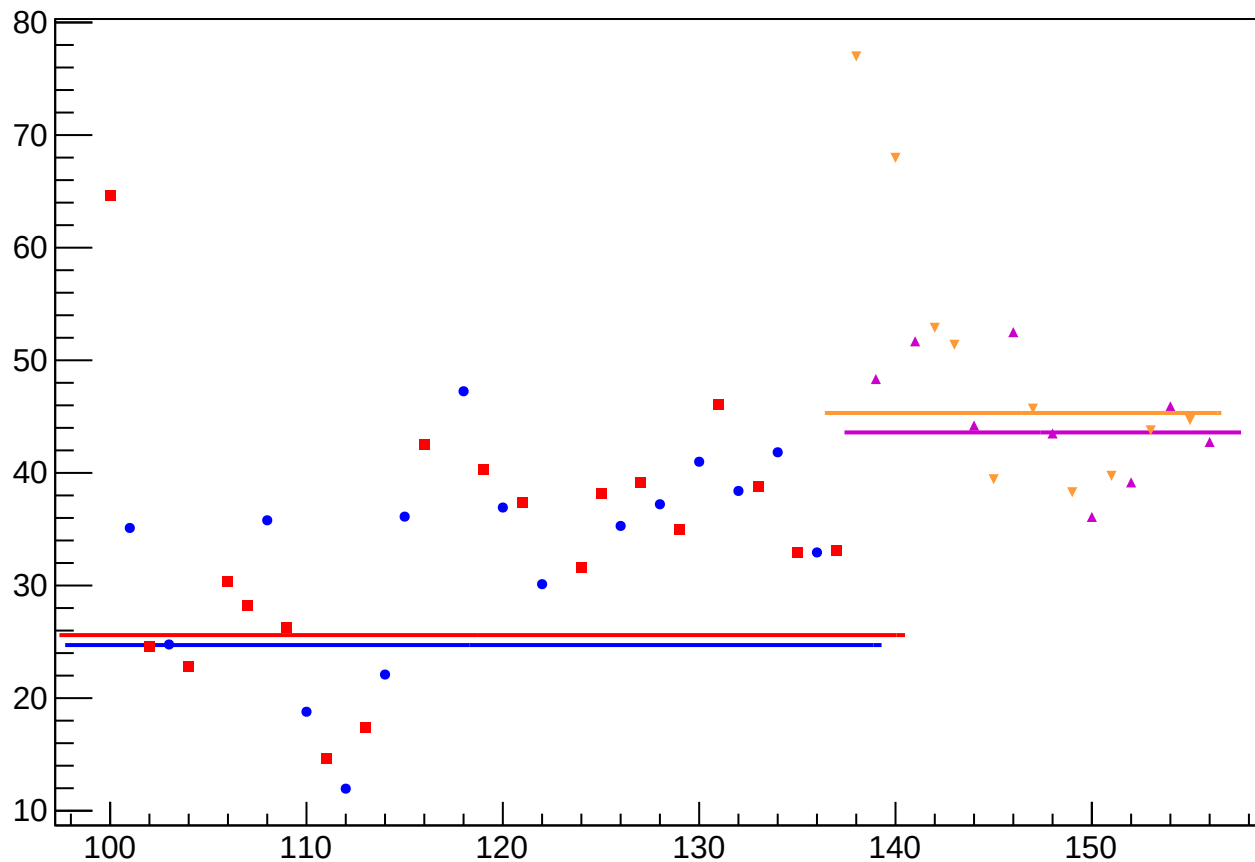
Right: 0.015 ± 0.007 $\chi^2/\text{NDF}: 32.1/34$

In: 0.025 ± 0.009 $\chi^2/\text{NDF}: 24.8/24$

Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 25.3/28$

All: 0.014 ± 0.006 $\chi^2/\text{NDF}: 53.6/53$

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: 45.324 $\pm$ 0.012 χ^2 /NDF: 578778.6/9

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605235.8/18

Left In: 43.595 $\pm$ 0.011 χ^2 /NDF: 208383.7/8

Left: 44.417 $\pm$ 0.008 χ^2 /NDF: 798342.2/18

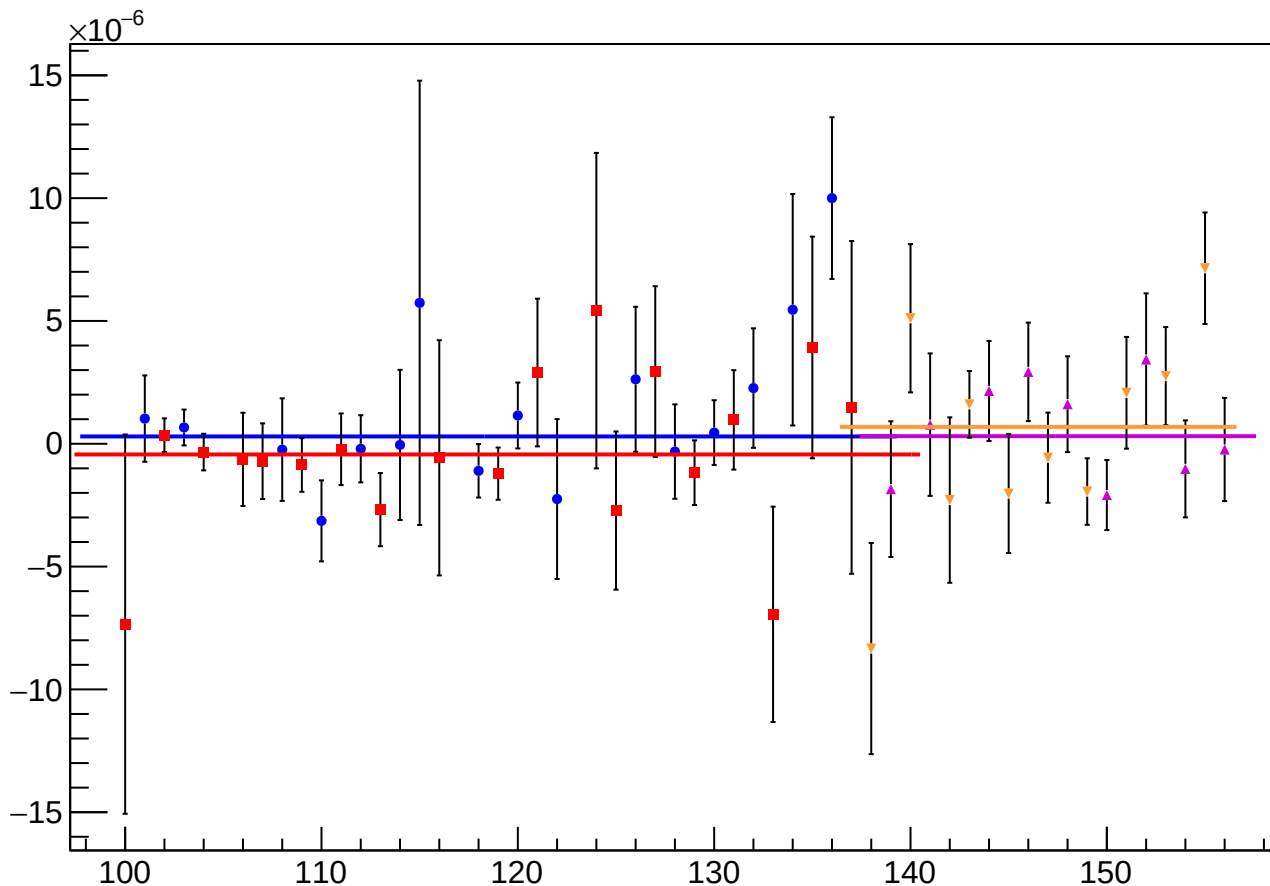
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3907717.2/34

In: 30.313 $\pm$ 0.006 χ^2 /NDF: 4475355.8/24

Out: 31.048 $\pm$ 0.006 χ^2 /NDF: 4192292.3/28

All: 30.675 $\pm$ 0.004 χ^2 /NDF: 8674719.1/53

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.3/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.8/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 12.7/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 8.3/8$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.3/18$

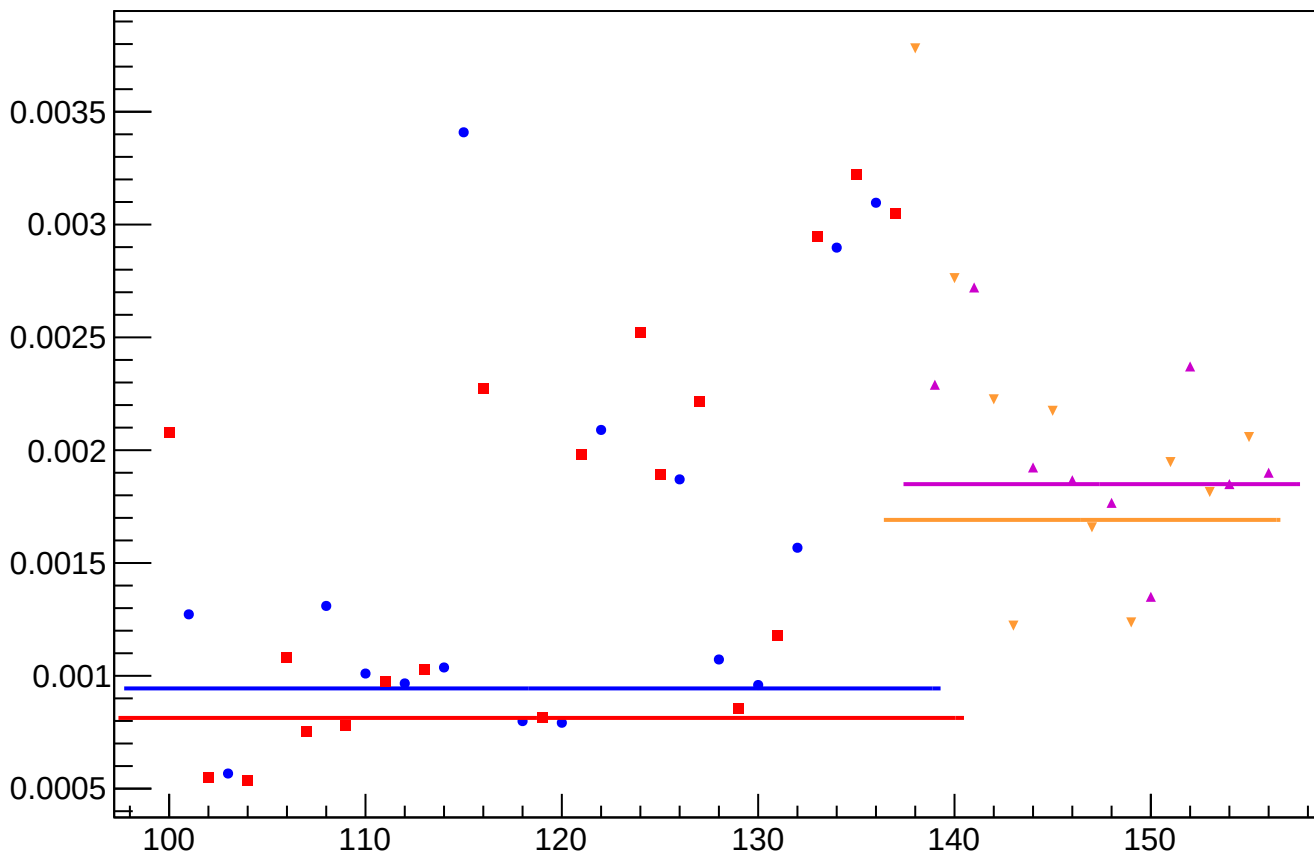
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 33.9/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 27.6/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 37.9/28$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 66.7/53$

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: 0.002+/-0.000 χ^2/NDF :1404977.0/9

Right Out: 0.001+/-0.000 χ^2/NDF : 3244147.3/18

Left In: 0.002+/-0.000 χ^2/NDF :558996.0/8

Left: 0.002+/-0.000 χ^2/NDF : 2020956.5/18

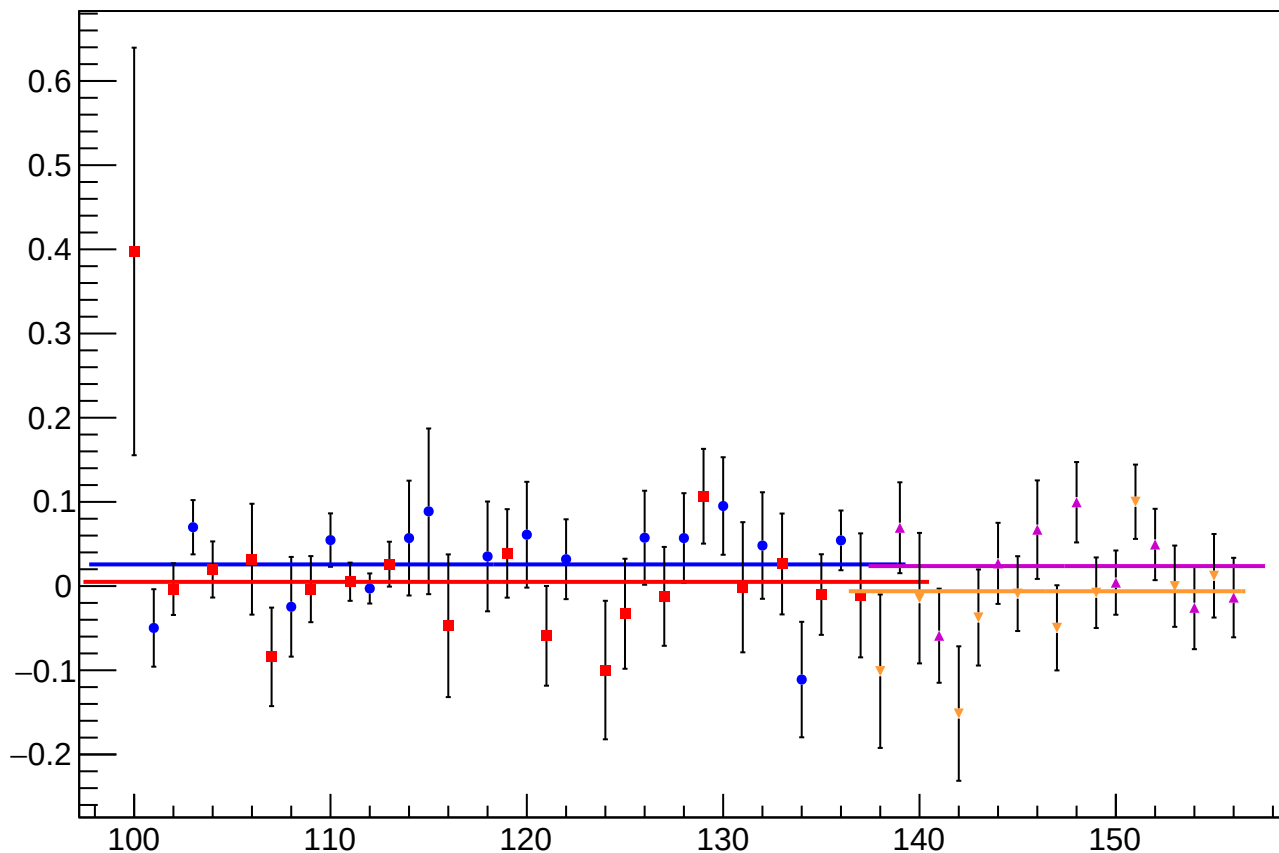
Right: 0.001+/-0.000 χ^2/NDF : 6033376.9/34

In: 0.001+/-0.000 χ^2/NDF :5811981.8/24

Out: 0.001+/-0.000 χ^2/NDF :7583711.1/28

All: 0.001+/-0.000 χ^2/NDF : 13657811.0/53

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.010 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.006 ± 0.017 $\chi^2/\text{NDF}: 11.4/9$

Right Out: 0.005 ± 0.010 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.024 ± 0.016 $\chi^2/\text{NDF}: 8.2/8$

Left: 0.010 ± 0.012 $\chi^2/\text{NDF}: 21.3/18$

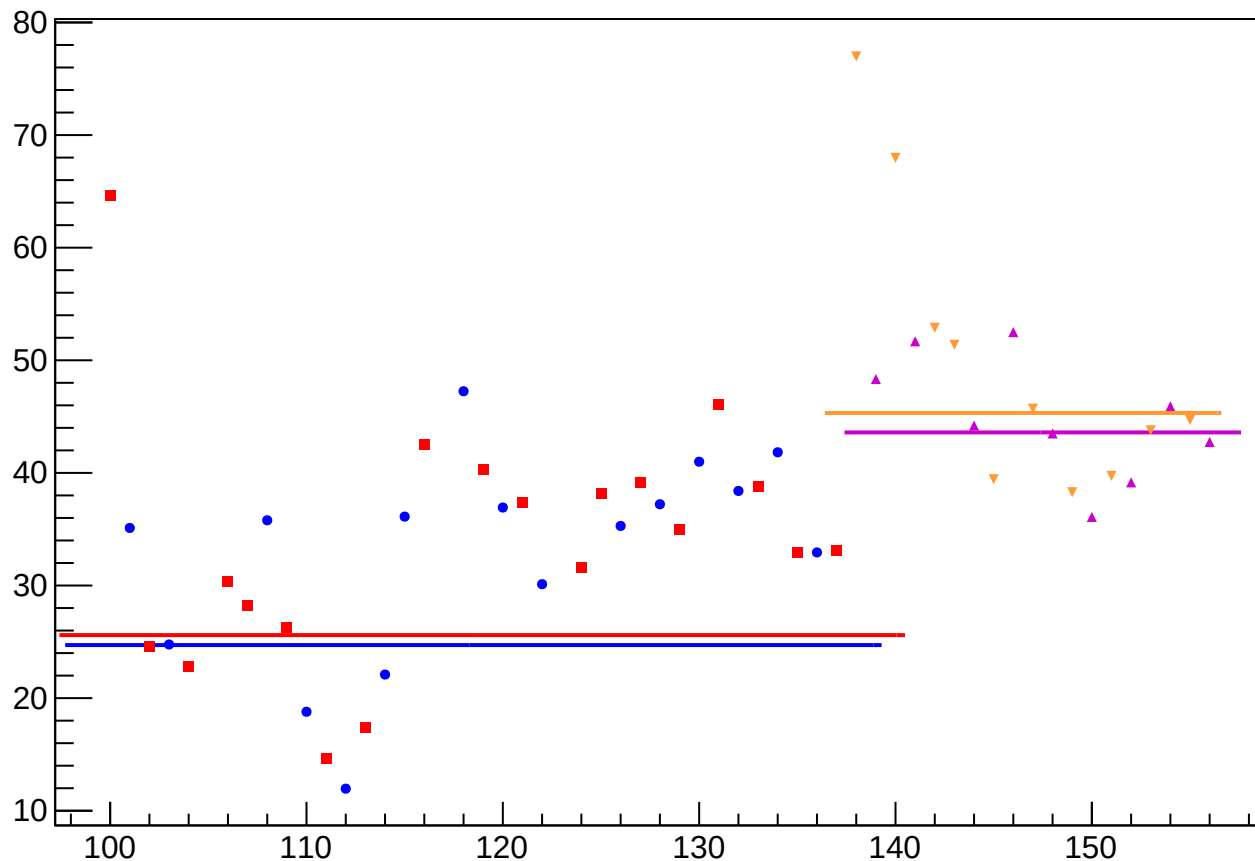
Right: 0.015 ± 0.007 $\chi^2/\text{NDF}: 32.1/34$

In: 0.025 ± 0.009 $\chi^2/\text{NDF}: 24.8/24$

Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 25.3/28$

All: 0.014 ± 0.006 $\chi^2/\text{NDF}: 53.6/53$

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: 45.325 $\pm$ 0.012 χ^2 /NDF: 578762.6/9

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605387.3/18

Left In: 43.595 $\pm$ 0.011 χ^2 /NDF: 208386.2/8

Left: 44.418 $\pm$ 0.008 χ^2 /NDF: 798328.8/18

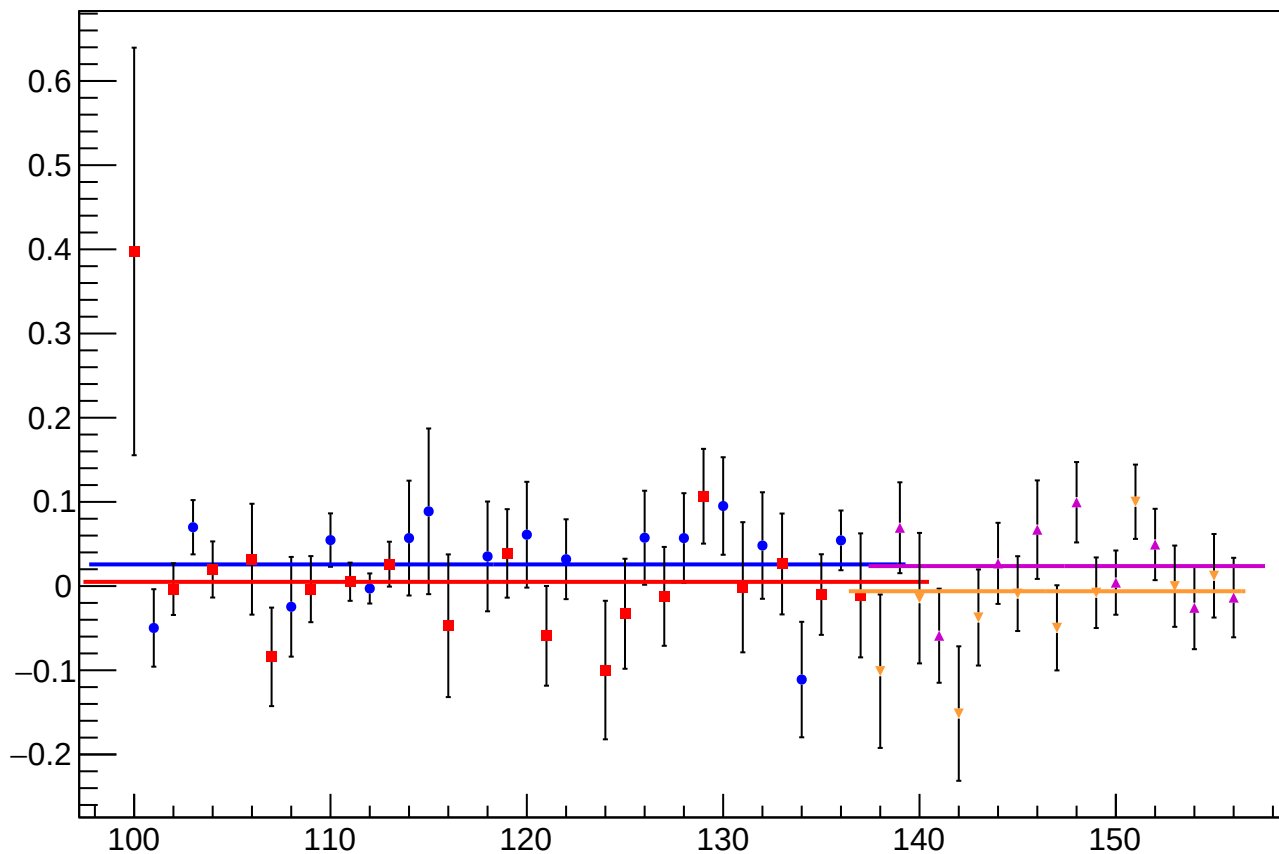
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3908047.8/34

In: 30.312 $\pm$ 0.006 χ^2 /NDF: 4475756.9/24

Out: 31.048 $\pm$ 0.006 χ^2 /NDF: 4192611.9/28

All: 30.675 $\pm$ 0.004 χ^2 /NDF: 8675442.4/53

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.010 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.006 ± 0.017 $\chi^2/\text{NDF}: 11.4/9$

Right Out: 0.005 ± 0.010 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.024 ± 0.016 $\chi^2/\text{NDF}: 8.2/8$

Left: 0.010 ± 0.012 $\chi^2/\text{NDF}: 21.3/18$

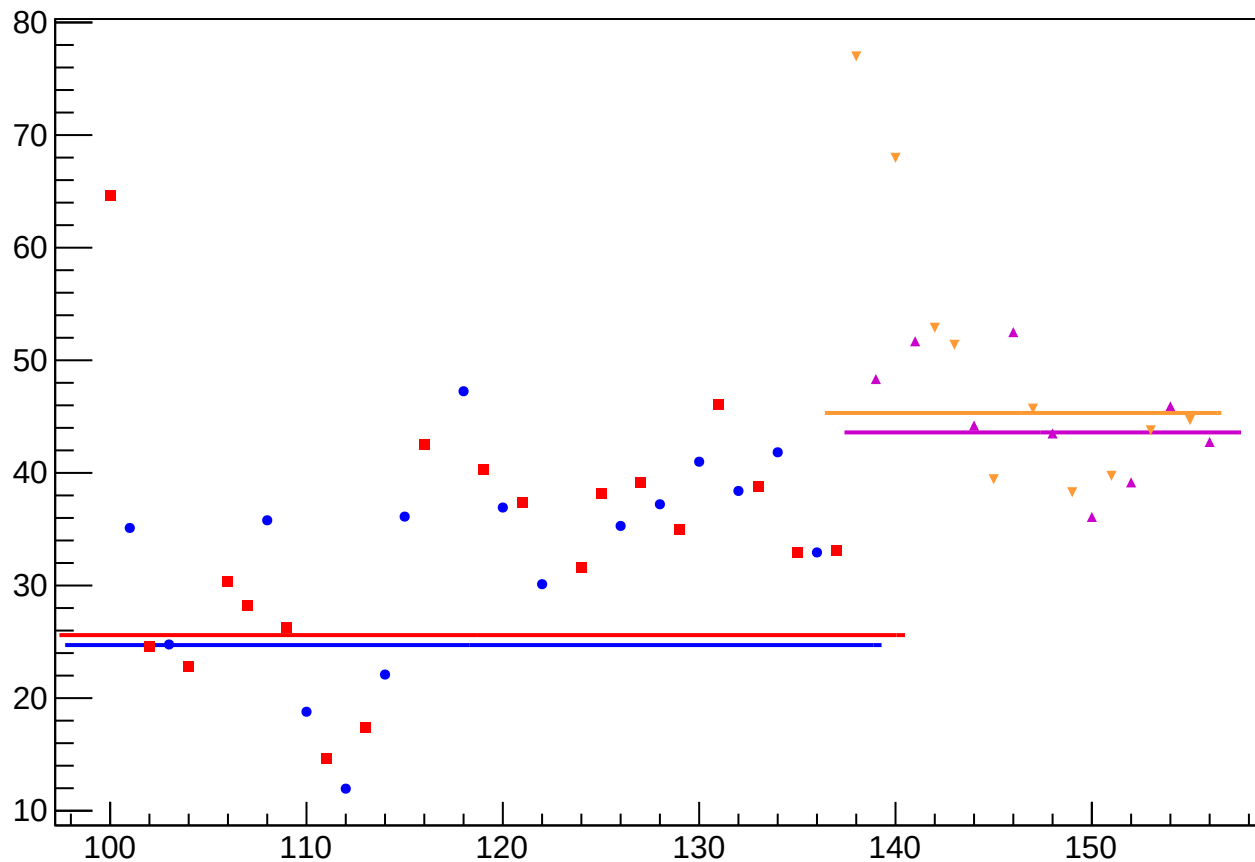
Right: 0.015 ± 0.007 $\chi^2/\text{NDF}: 32.1/34$

In: 0.025 ± 0.009 $\chi^2/\text{NDF}: 24.8/24$

Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 25.3/28$

All: 0.014 ± 0.006 $\chi^2/\text{NDF}: 53.6/53$

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: 45.325 $\pm$ 0.012 χ^2 /NDF: 578762.6/9

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605387.3/18

Left In: 43.595 $\pm$ 0.011 χ^2 /NDF: 208386.2/8

Left: 44.418 $\pm$ 0.008 χ^2 /NDF: 798328.8/18

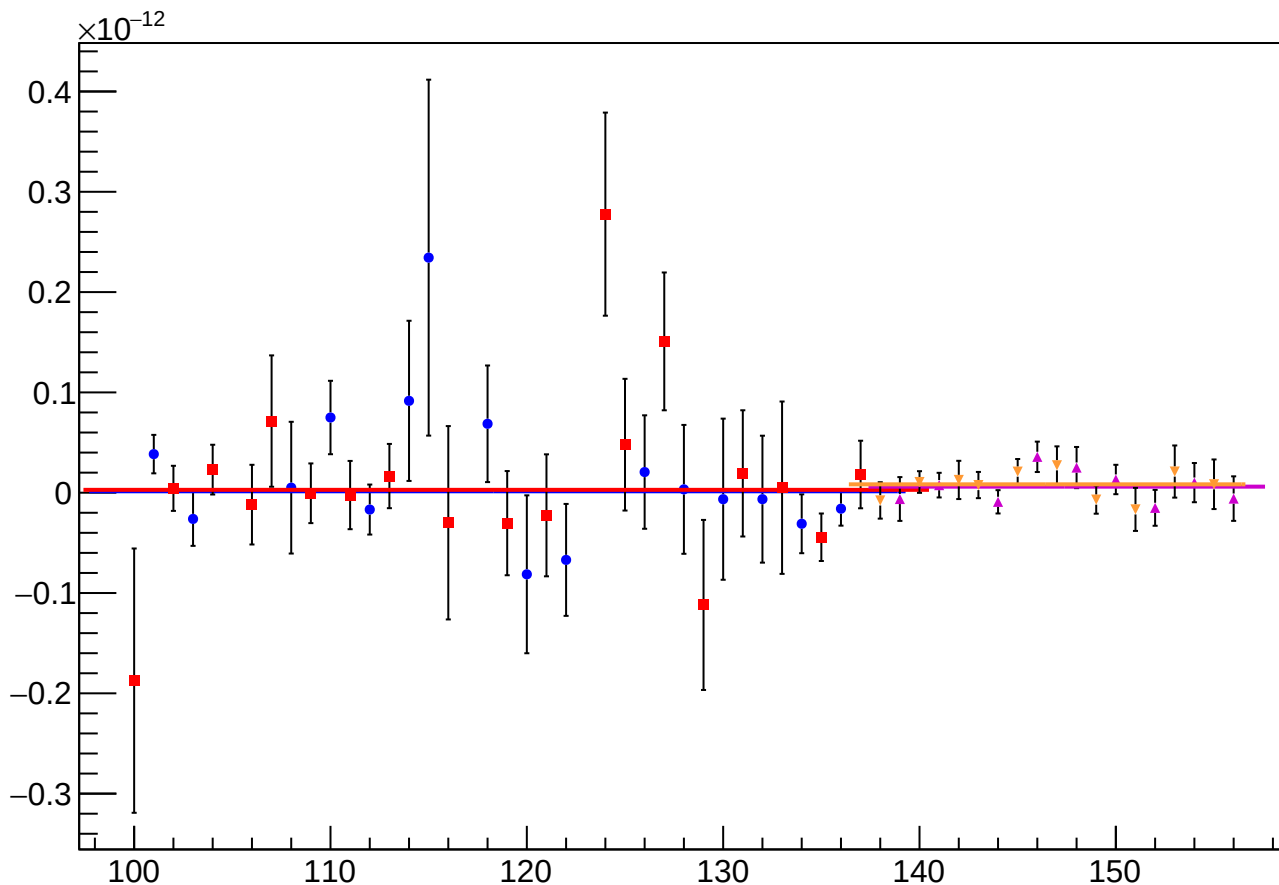
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3908047.8/34

In: 30.312 $\pm$ 0.006 χ^2 /NDF: 4475756.9/24

Out: 31.048 $\pm$ 0.006 χ^2 /NDF: 4192611.9/28

All: 30.675 $\pm$ 0.004 χ^2 /NDF: 8675442.4/53

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 : 5.7/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.7/8

Left: 0.000+/-0.000 χ^2/NDF : 14.5/18

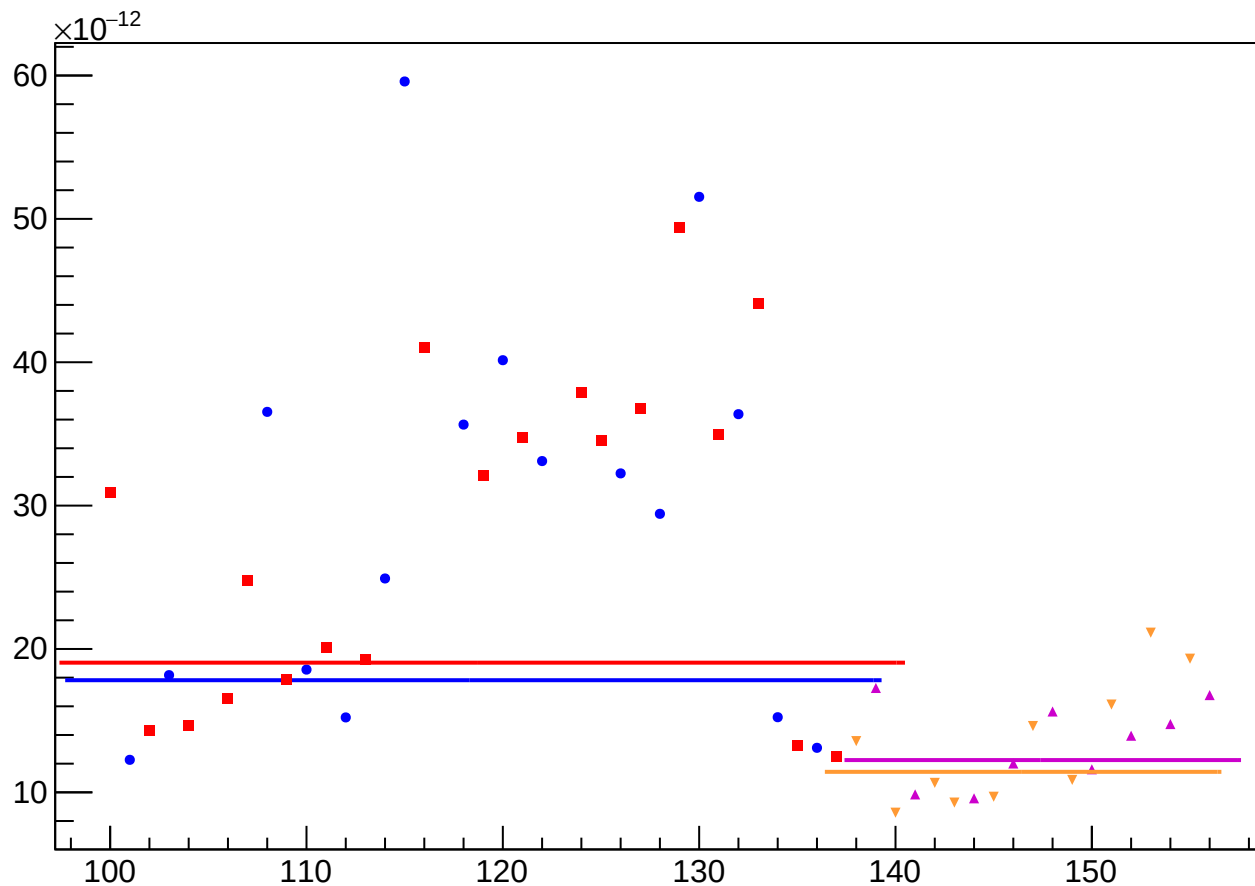
Right: 0.000+/-0.000 χ^2/NDF : 42.2/34

In: 0.000+/-0.000 χ^2/NDF : 27.6/24

Out: 0.000+/-0.000 χ^2/NDF : 29.4/28

All: 0.000+/-0.000 χ^2/NDF : 57.2/53

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 : 901070.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1620721.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 481076.6/8

Left: 0.000+/-0.000 χ^2/NDF : 1407301.7/18

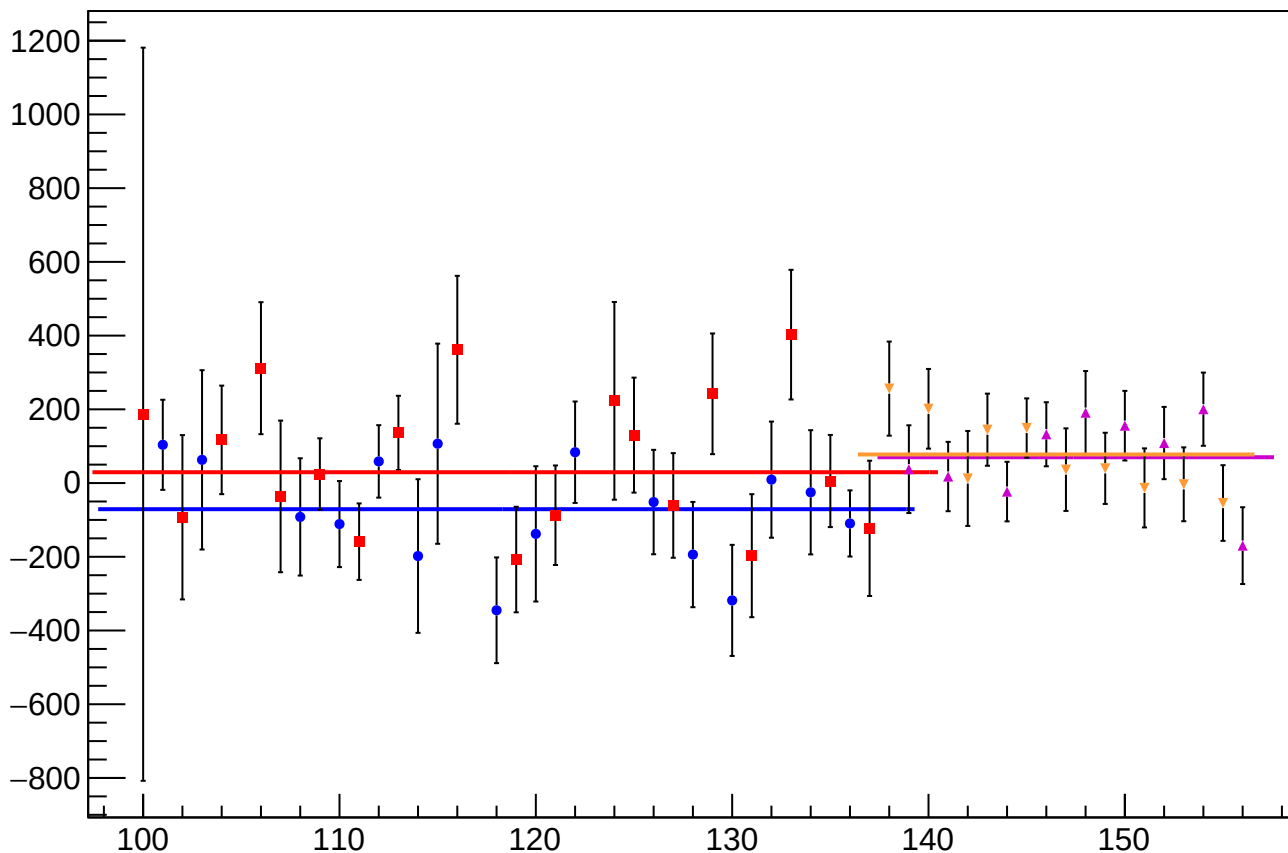
Right: 0.000+/-0.000 χ^2/NDF : 3509564.6/34

In: 0.000+/-0.000 χ^2/NDF : 2950181.5/24

Out: 0.000+/-0.000 χ^2/NDF : 3589118.4/28

All: 0.000+/-0.000 χ^2/NDF : 6556037.1/53

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: 77.578 ± 32.702 $\chi^2/\text{NDF}: 8.1/9$

Right Out: 29.410 ± 34.243 $\chi^2/\text{NDF}: 24.0/18$

Left In: 70.048 ± 32.317 $\chi^2/\text{NDF}: 11.4/8$

Left: 73.768 ± 22.987 $\chi^2/\text{NDF}: 19.5/18$

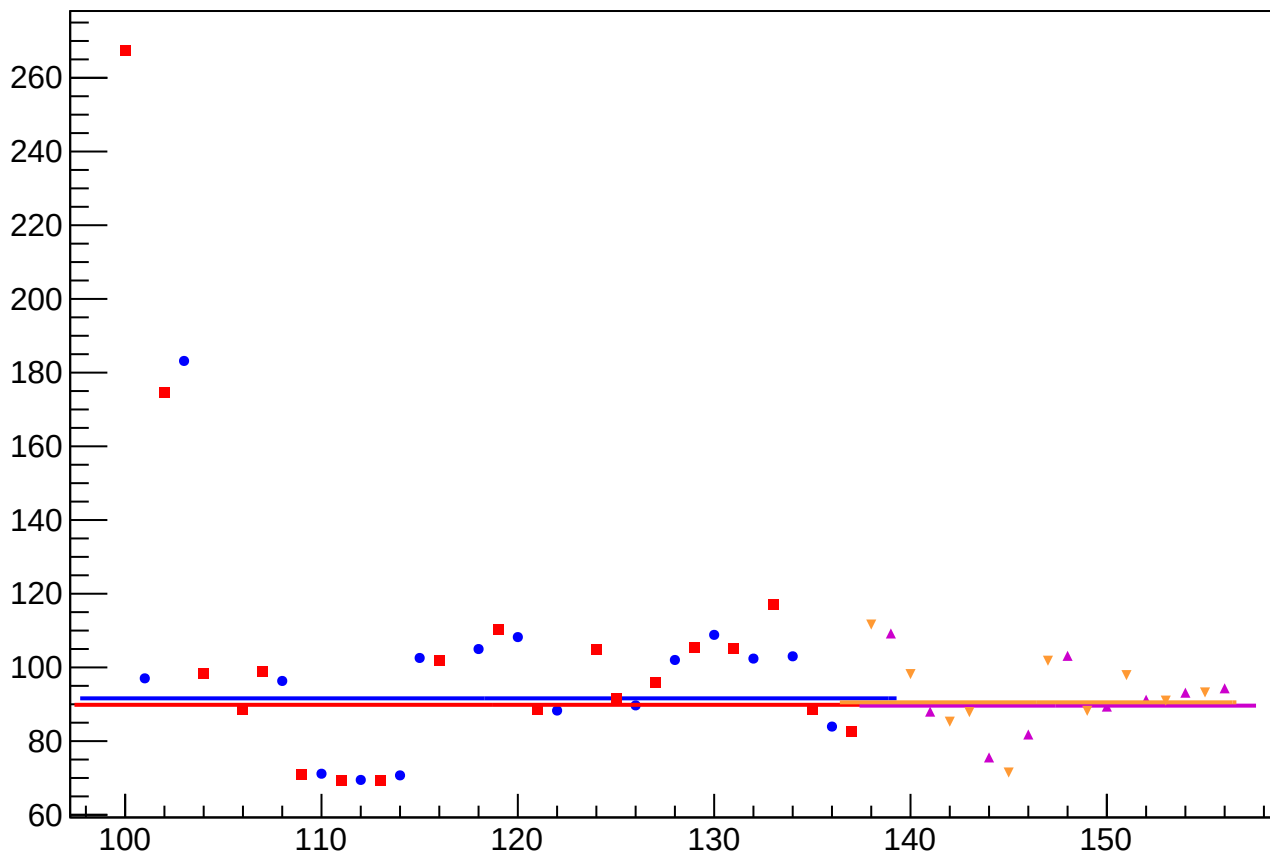
Right: -19.470 ± 24.518 $\chi^2/\text{NDF}: 42.3/34$

In: 5.430 ± 23.782 $\chi^2/\text{NDF}: 34.1/24$

Out: 54.602 ± 23.650 $\chi^2/\text{NDF}: 33.2/28$

All: 30.152 ± 16.769 $\chi^2/\text{NDF}: 69.4/53$

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: 90.527 $\pm$ 0.023 χ^2 /NDF: 214290.7/9

Right Out: 89.854 $\pm$ 0.024 χ^2 /NDF: 746289.1/18

Left In: 89.629 $\pm$ 0.023 χ^2 /NDF: 167262.3/8

Left: 90.072 $\pm$ 0.016 χ^2 /NDF: 382316.0/18

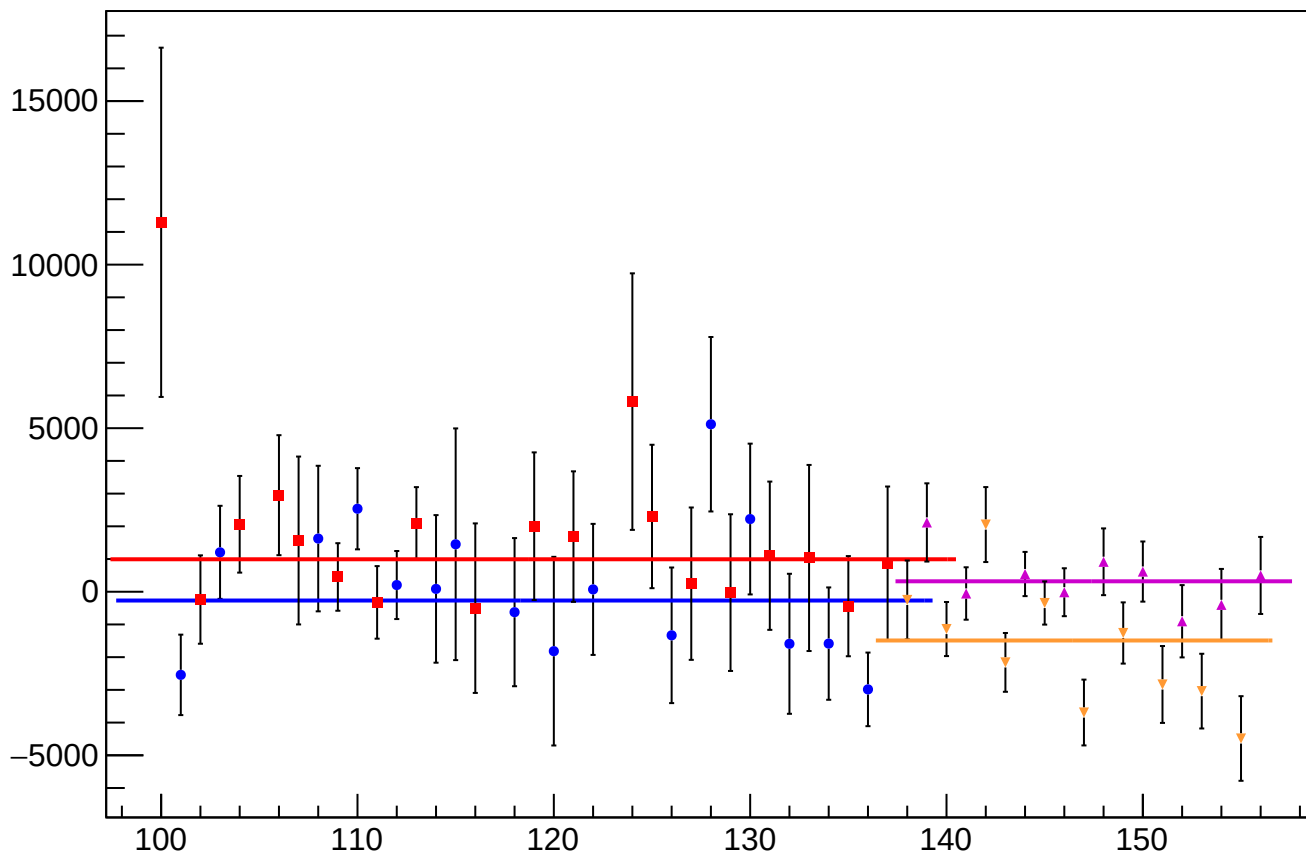
Right: 90.709 $\pm$ 0.017 χ^2 /NDF: 1329517.7/34

In: 90.536 $\pm$ 0.017 χ^2 /NDF: 751374.7/24

Out: 90.206 $\pm$ 0.017 χ^2 /NDF: 960982.9/28

All: 90.370 $\pm$ 0.012 χ^2 /NDF: 1712551.3/53

asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -268.485+/-419.578 χ^2/NDF : 23.4/15

Left Out: -1490.230+/-306.215 χ^2/NDF :27.7/9

Right Out: 992.670+/-400.824 χ^2/NDF : 12.7/18

Left In: 319.322+/-303.988 χ^2/NDF :4.9/8

Left: -578.848+/-215.735 χ^2/NDF : 50.2/18

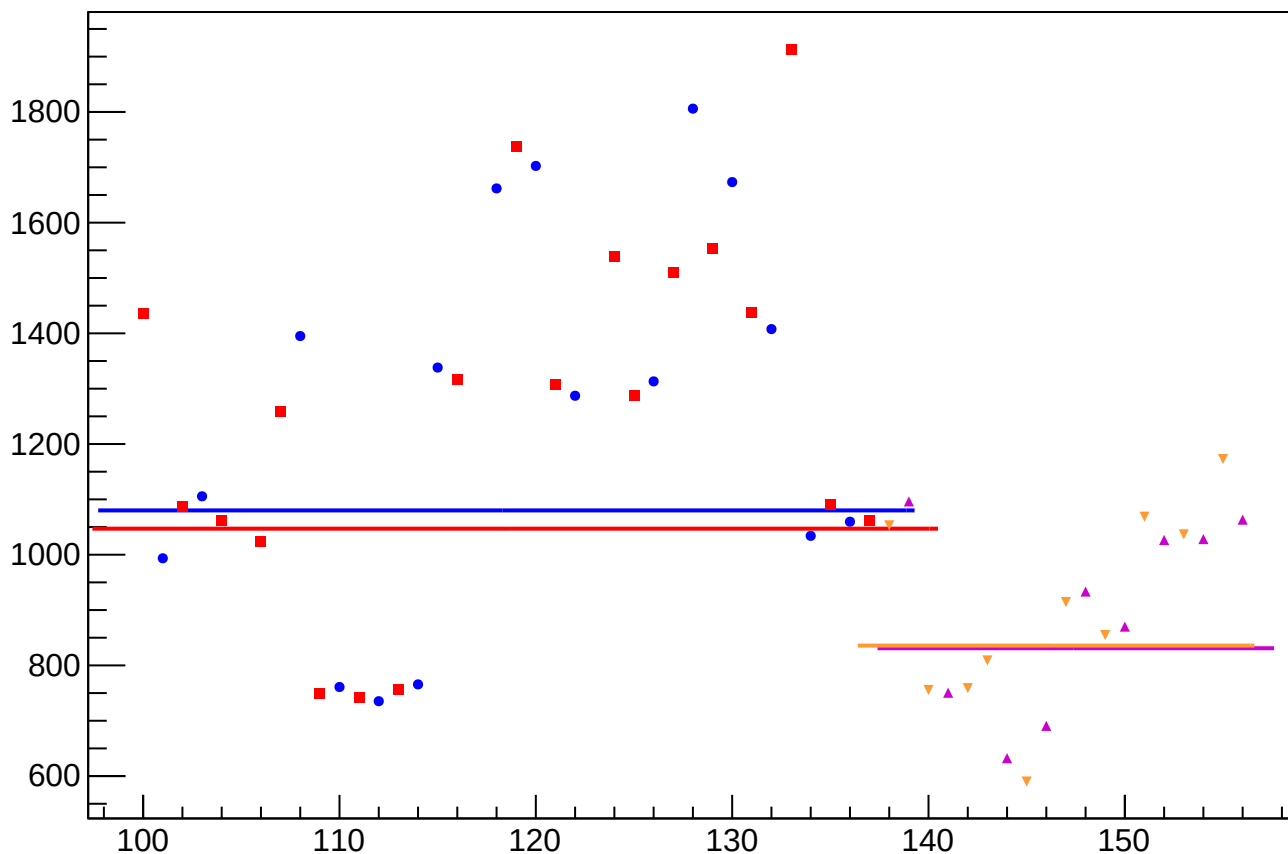
Right: 390.906+/-289.829 χ^2/NDF : 40.8/34

In: 116.984+/-246.169 χ^2/NDF :29.7/24

Out: -575.172+/-243.332 χ^2/NDF :64.6/28

All: -233.106+/-173.056 χ^2/NDF : 98.3/53

asym_sam_3748_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1080.045+/-0.297 χ^2/NDF : 1053468.5/15

Left Out: 835.784+/-0.217 χ^2/NDF : 661027.3/9

Right Out: 1047.068+/-0.283 χ^2/NDF : 1198646.2/18

Left In: 831.008+/-0.215 χ^2/NDF : 593401.2/8

Left: 833.379+/-0.153 χ^2/NDF : 1254673.4/18

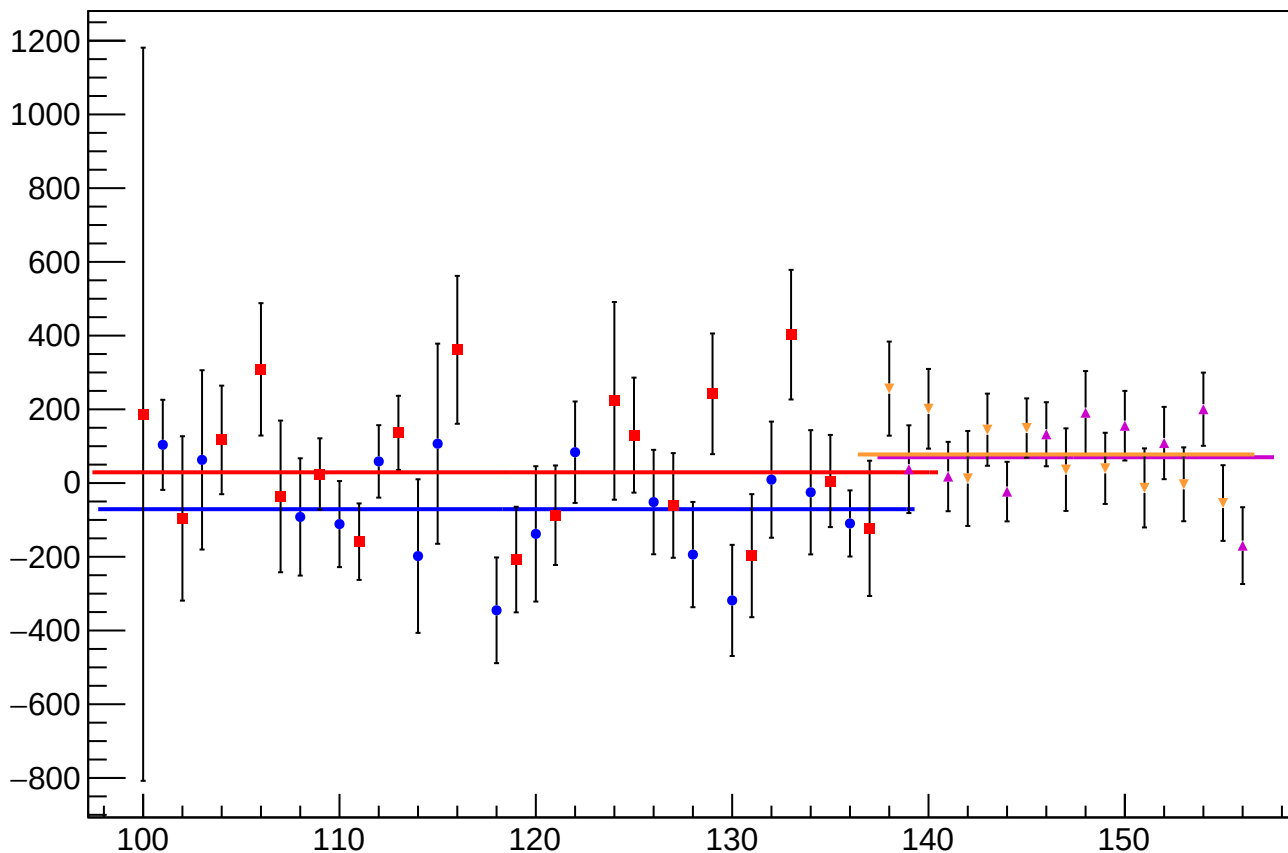
Right: 1062.803+/-0.205 χ^2/NDF : 2258574.4/34

In: 916.733+/-0.174 χ^2/NDF : 2108917.3/24

Out: 913.651+/-0.172 χ^2/NDF : 2210585.8/28

All: 915.174+/-0.122 χ^2/NDF : 4319661.7/53

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: 77.585 $\pm$ 32.702 χ^2 /NDF:8.1/9

Right Out: 29.159 $\pm$ 34.247 χ^2 /NDF: 24.0/18

Left In: 70.049 $\pm$ 32.317 χ^2 /NDF:11.4/8

Left: 73.772 $\pm$ 22.987 χ^2 /NDF: 19.5/18

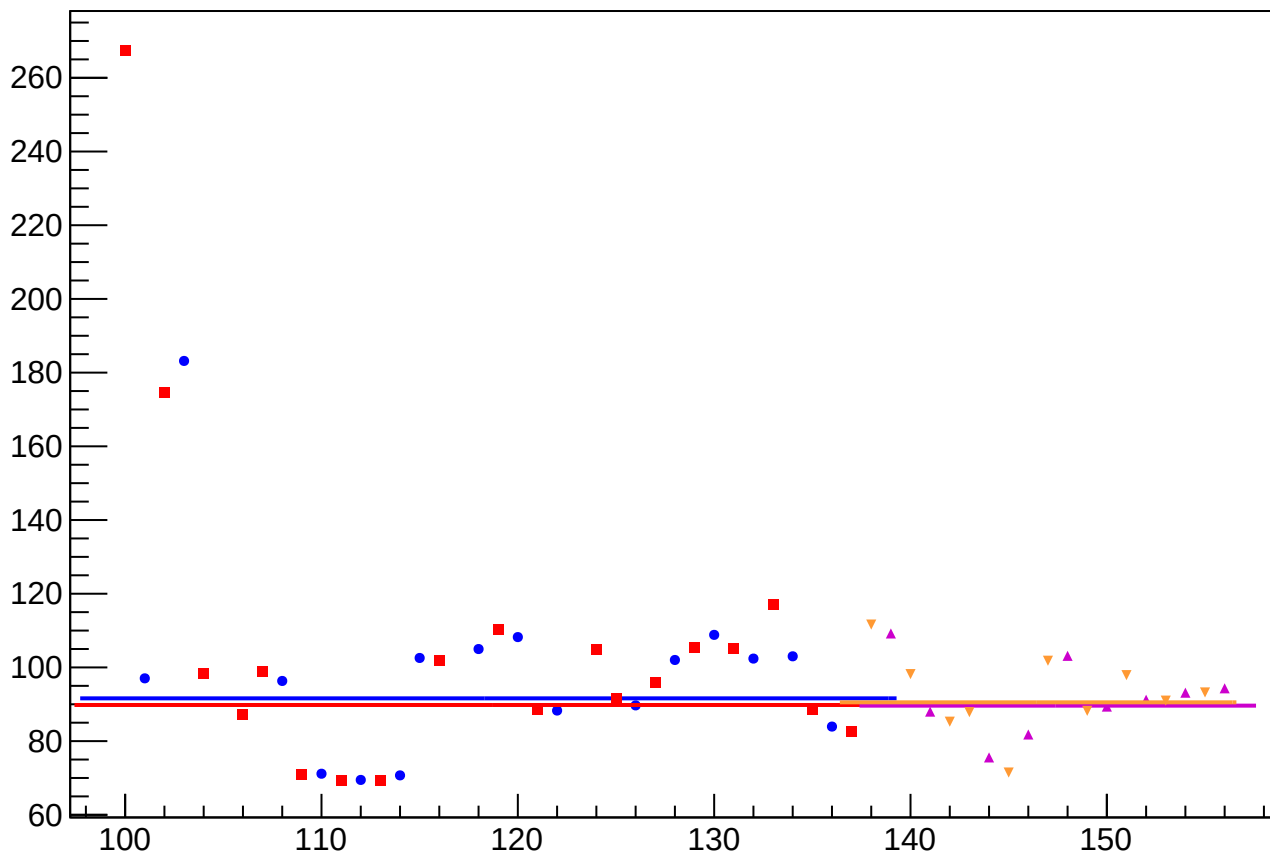
Right: -19.610 $\pm$ 24.520 χ^2 /NDF: 42.2/34

In: 5.425 $\pm$ 23.782 χ^2 /NDF:34.1/24

Out: 54.489 $\pm$ 23.651 χ^2 /NDF:33.1/28

All: 30.092 $\pm$ 16.770 χ^2 /NDF: 69.4/53

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: 90.527 $\pm$ 0.023 χ^2 /NDF: 214290.7/9

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 89.629 $\pm$ 0.023 χ^2 /NDF: 167262.3/8

Left: 90.072 $\pm$ 0.016 χ^2 /NDF: 382316.0/18

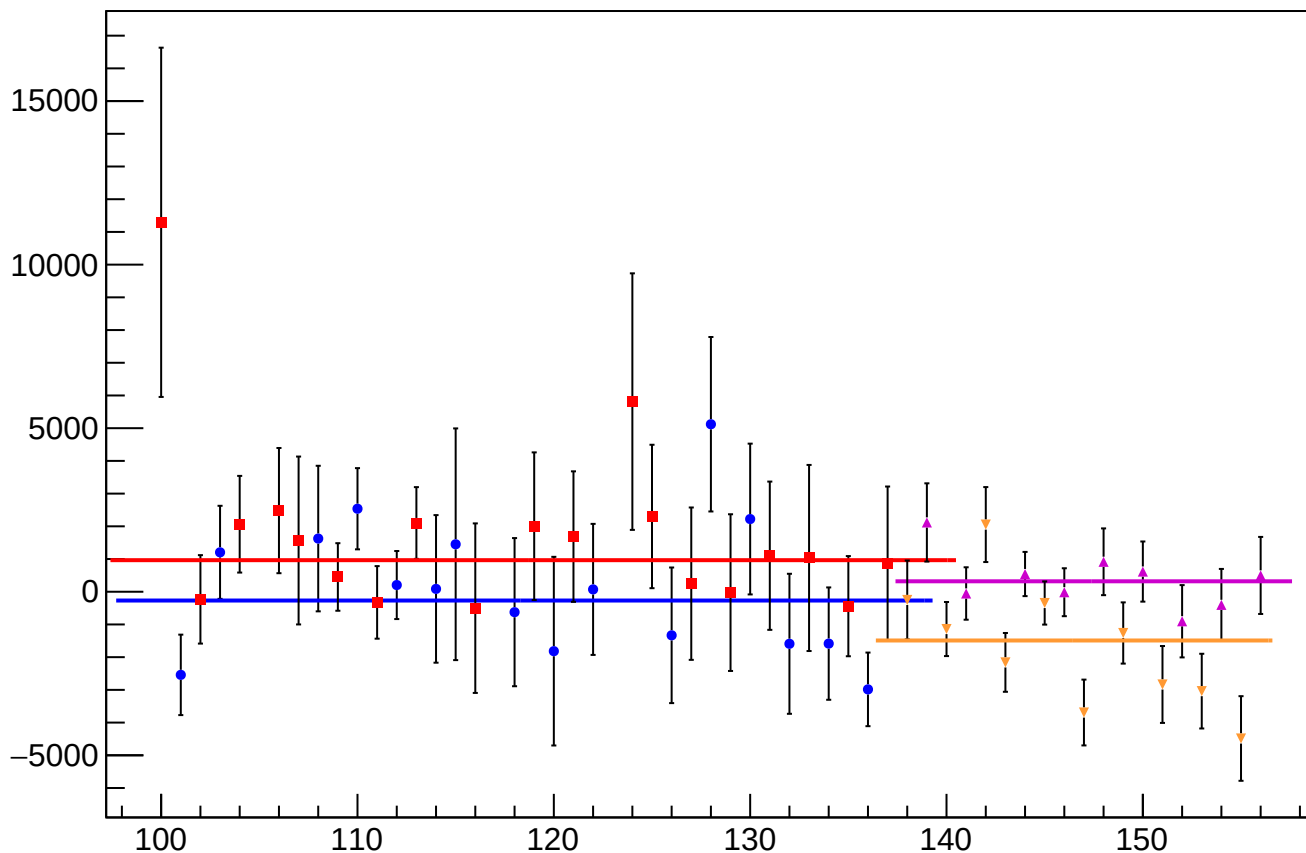
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 90.536 $\pm$ 0.017 χ^2 /NDF: 751377.8/24

Out: 90.183 $\pm$ 0.017 χ^2 /NDF: 961586.1/28

All: 90.359 $\pm$ 0.012 χ^2 /NDF: 1713185.1/53

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: -1490.222+/-306.215 χ^2/NDF :27.7/9

Right Out: 964.986+/-401.633 χ^2/NDF : 12.1/18

Left In: 319.329+/-303.988 χ^2/NDF :4.9/8

Left: -578.841+/-215.735 χ^2/NDF : 50.2/18

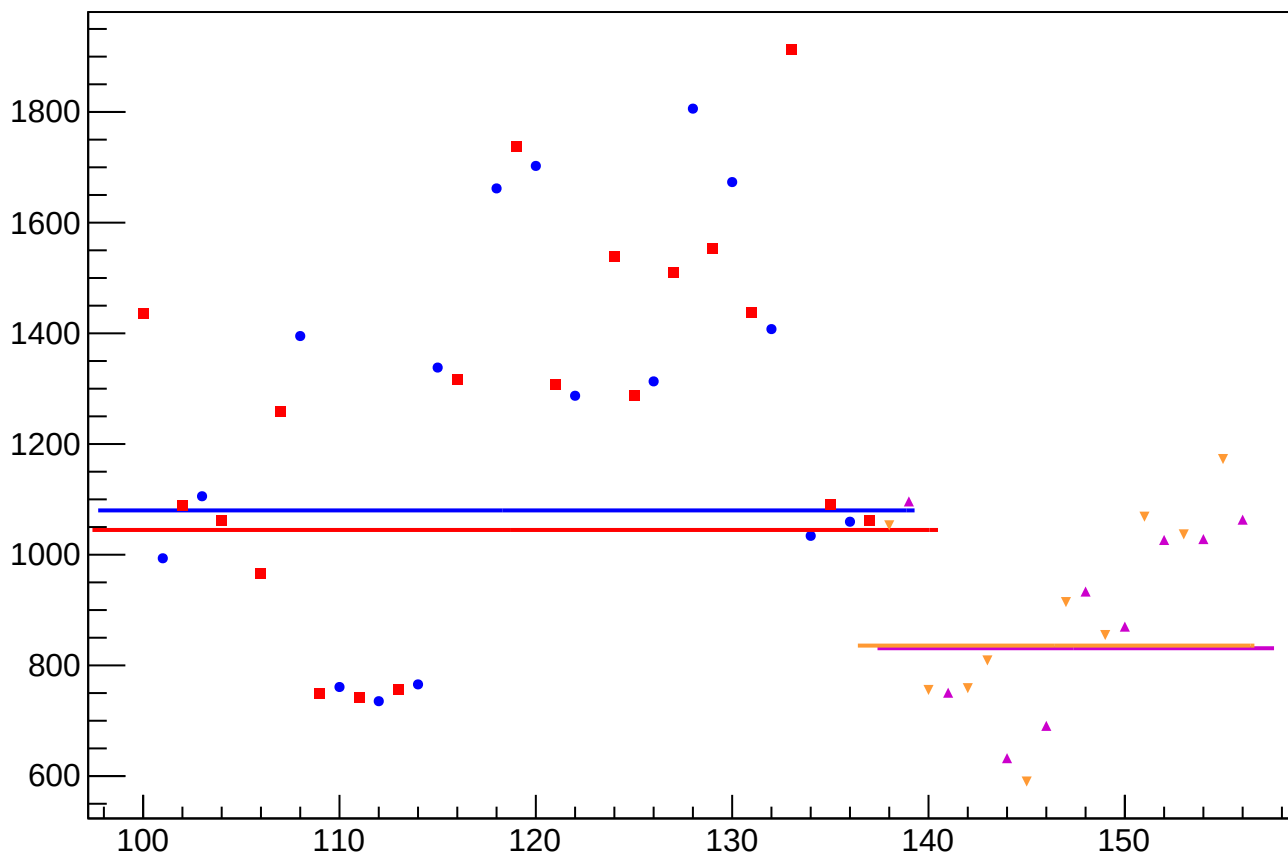
Right: 375.186+/-290.135 χ^2/NDF : 40.1/34

In: 116.984+/-246.170 χ^2/NDF :29.7/24

Out: -587.672+/-243.512 χ^2/NDF :63.5/28

All: -239.168+/-173.121 χ^2/NDF : 97.3/53

asym_sam_3748_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1080.054+/-0.297 χ^2/NDF : 1053475.0/15

Left Out: 835.783+/-0.217 χ^2/NDF : 661029.9/9

Right Out: 1044.717+/-0.284 χ^2/NDF : 1201825.8/18

Left In: 831.009+/-0.215 χ^2/NDF : 593399.7/8

Left: 833.379+/-0.153 χ^2/NDF : 1254674.5/18

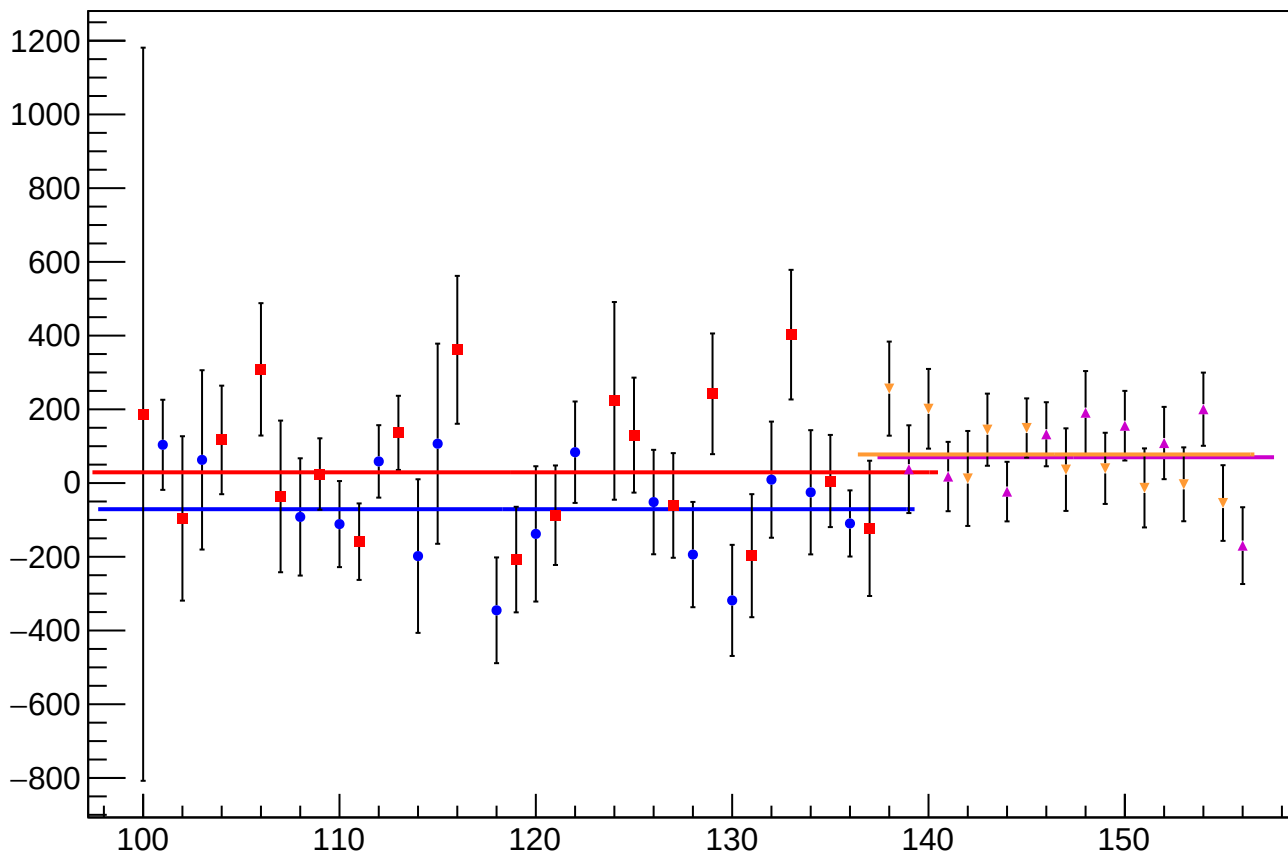
Right: 1061.613+/-0.205 χ^2/NDF : 2262703.7/34

In: 916.735+/-0.174 χ^2/NDF : 2108948.4/24

Out: 912.588+/-0.172 χ^2/NDF : 2205130.1/28

All: 914.639+/-0.122 χ^2/NDF : 4314365.3/53

eigen_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: 77.585 ± 32.702 $\chi^2/\text{NDF}: 8.1/9$

Right Out: 29.159 ± 34.247 $\chi^2/\text{NDF}: 24.0/18$

Left In: 70.049 ± 32.317 $\chi^2/\text{NDF}: 11.4/8$

Left: 73.772 ± 22.987 $\chi^2/\text{NDF}: 19.5/18$

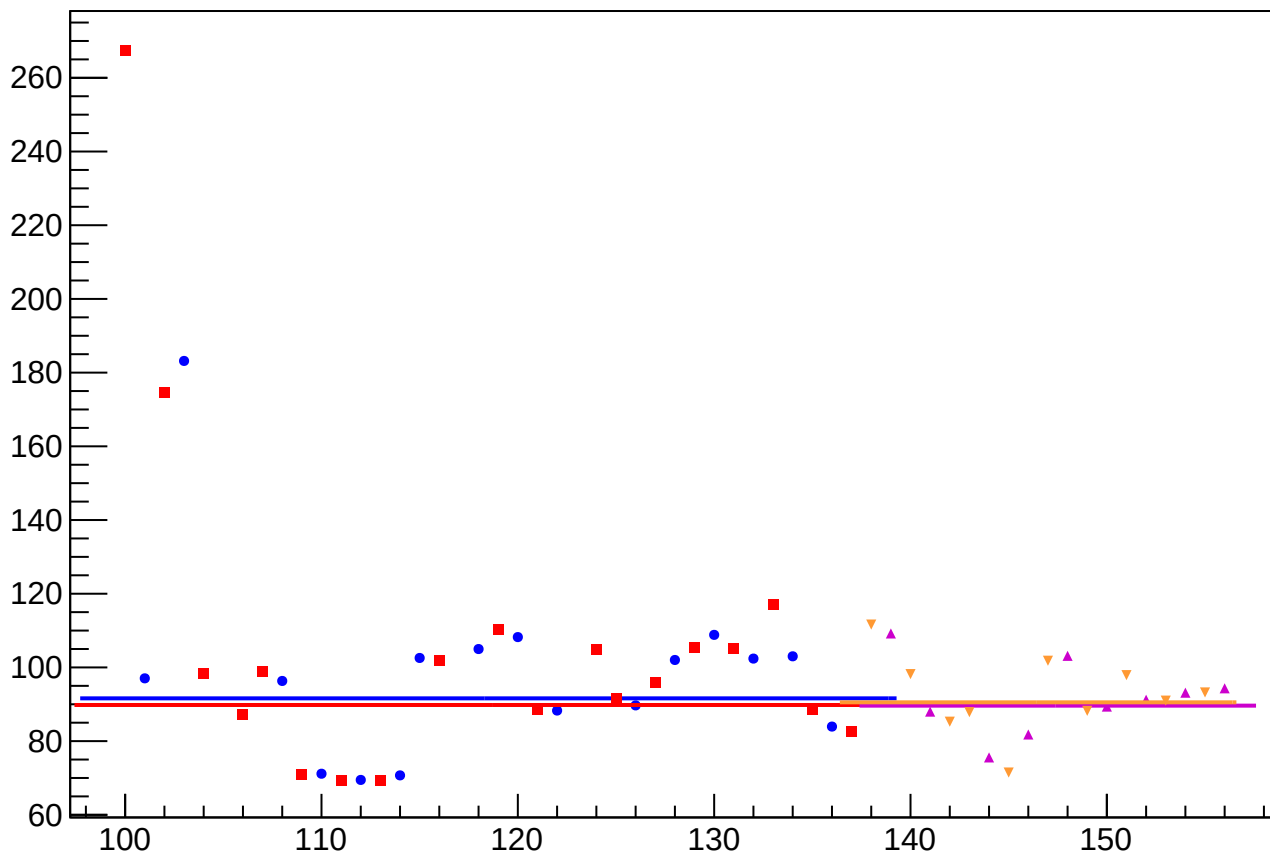
Right: -19.610 ± 24.520 $\chi^2/\text{NDF}: 42.2/34$

In: 5.425 ± 23.782 $\chi^2/\text{NDF}: 34.1/24$

Out: 54.489 ± 23.651 $\chi^2/\text{NDF}: 33.1/28$

All: 30.092 ± 16.770 $\chi^2/\text{NDF}: 69.4/53$

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: 90.527 $\pm$ 0.023 χ^2 /NDF: 214290.7/9

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 89.629 $\pm$ 0.023 χ^2 /NDF: 167262.3/8

Left: 90.072 $\pm$ 0.016 χ^2 /NDF: 382316.0/18

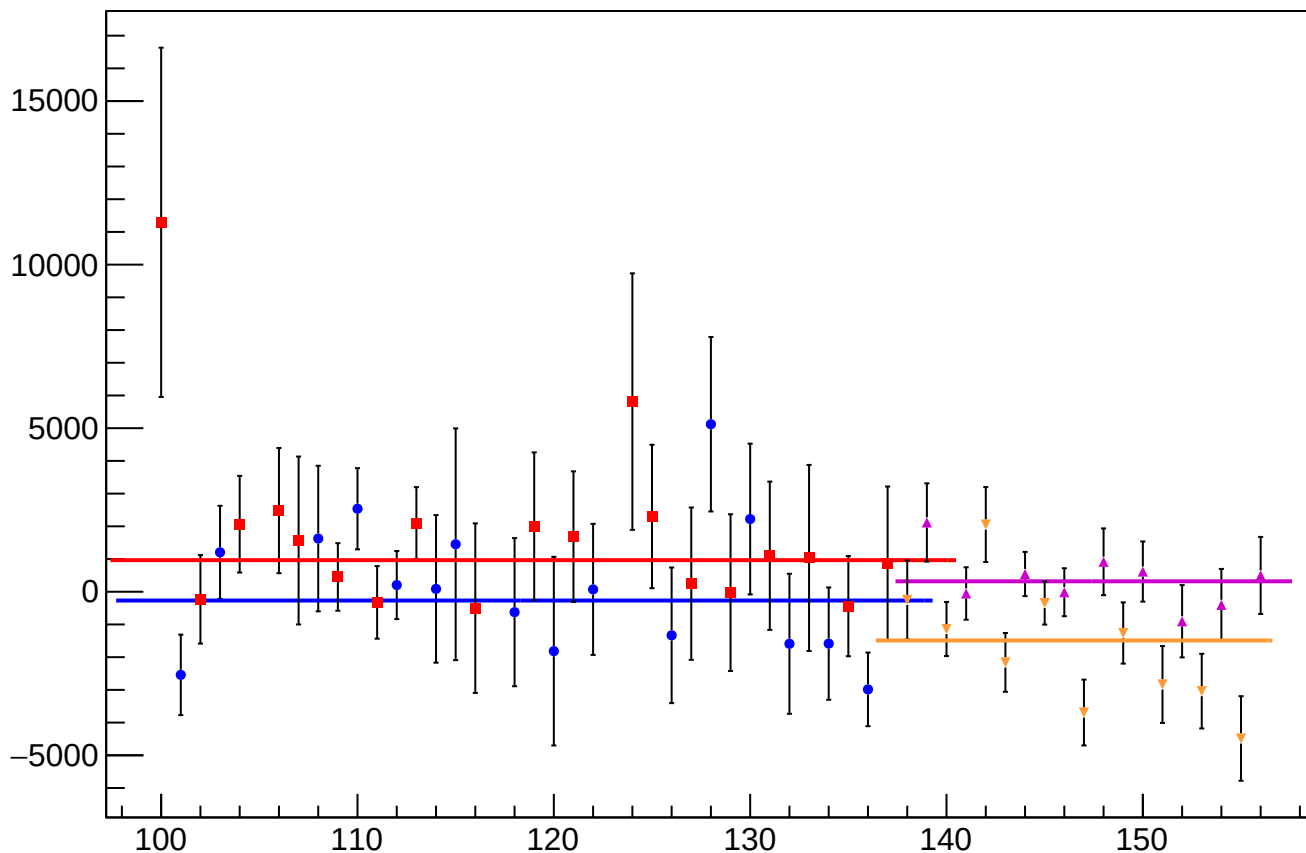
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 90.536 $\pm$ 0.017 χ^2 /NDF: 751377.8/24

Out: 90.183 $\pm$ 0.017 χ^2 /NDF: 961586.1/28

All: 90.359 $\pm$ 0.012 χ^2 /NDF: 1713185.1/53

asym_sam_3748_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -268.506 $\pm$ 419.581 χ^2 /NDF: 23.4/15

Left Out: -1490.222 $\pm$ 306.215 χ^2 /NDF:27.7/9

Right Out: 964.986 $\pm$ 401.633 χ^2 /NDF: 12.1/18

Left In: 319.329 $\pm$ 303.988 χ^2 /NDF:4.9/8

Left: -578.841 $\pm$ 215.735 χ^2 /NDF: 50.2/18

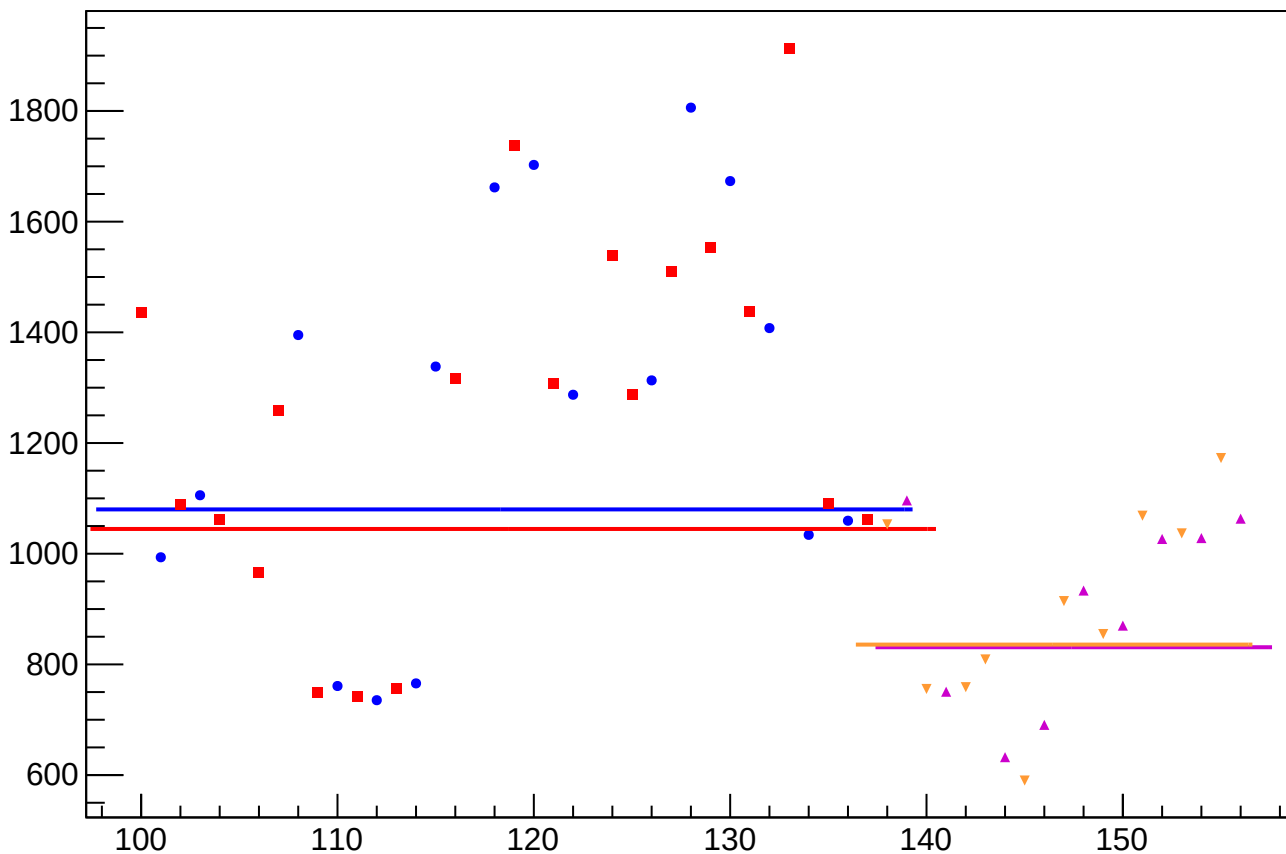
Right: 375.186 $\pm$ 290.135 χ^2 /NDF: 40.1/34

In: 116.984 $\pm$ 246.170 χ^2 /NDF:29.7/24

Out: -587.672 $\pm$ 243.512 χ^2 /NDF:63.5/28

All: -239.168 $\pm$ 173.121 χ^2 /NDF: 97.3/53

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: 835.783+/-0.217 χ^2/NDF : 661029.9/9

Right Out: 1044.717+/-0.284 χ^2/NDF : 1201825.8/18

Left In: 831.009+/-0.215 χ^2/NDF : 593399.7/8

Left: 833.379+/-0.153 χ^2/NDF : 1254674.5/18

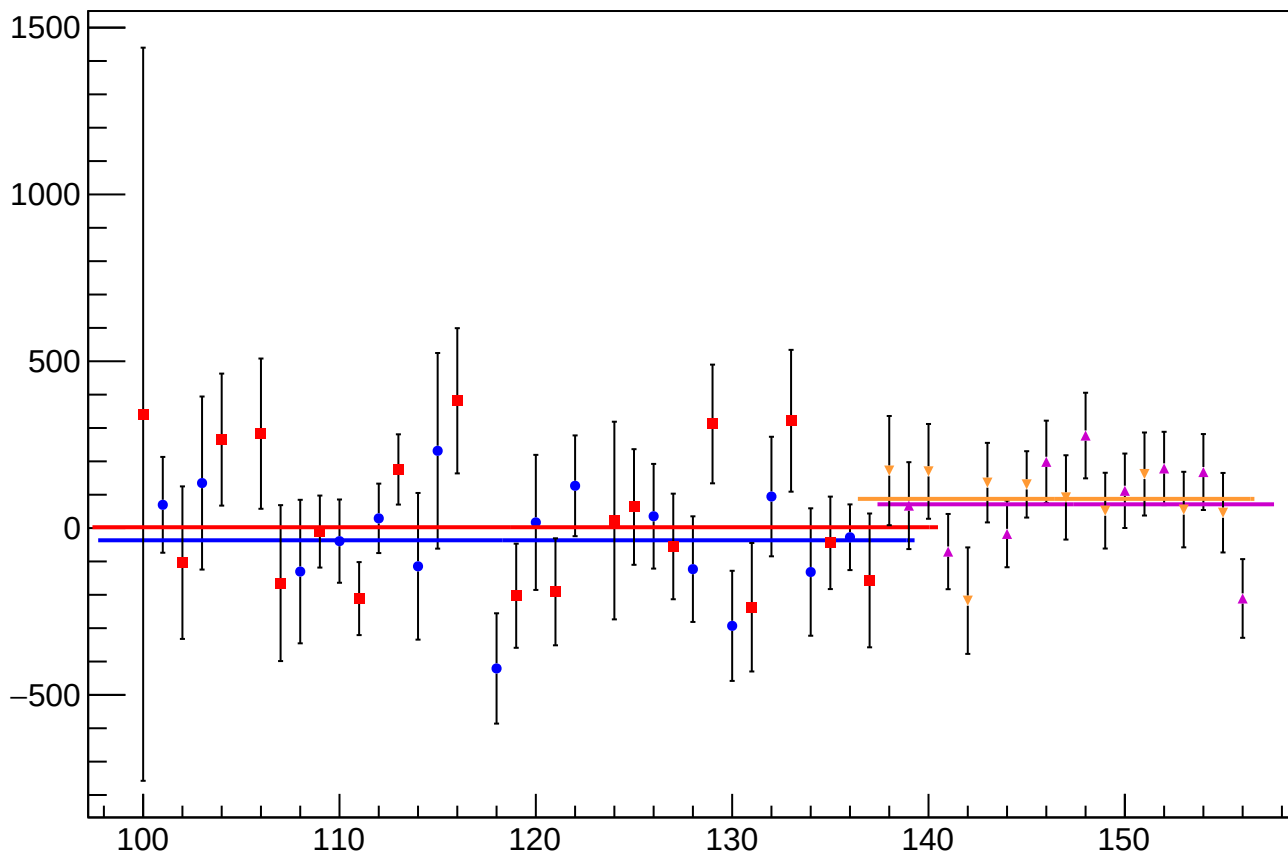
Right: 1061.613+/-0.205 χ^2/NDF : 2262703.7/34

In: 916.735+/-0.174 χ^2/NDF : 2108948.4/24

Out: 912.588+/-0.172 χ^2/NDF : 2205130.1/28

All: 914.639+/-0.122 χ^2/NDF : 4314365.3/53

dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.590 ± 38.991 χ^2/NDF : 12.9/15

Left Out: 87.558 ± 39.200 χ^2/NDF : 5.3/9

Right Out: 2.568 ± 38.165 χ^2/NDF : 24.7/18

Left In: 71.262 ± 38.449 χ^2/NDF : 13.6/8

Left: 79.252 ± 27.449 χ^2/NDF : 18.9/18

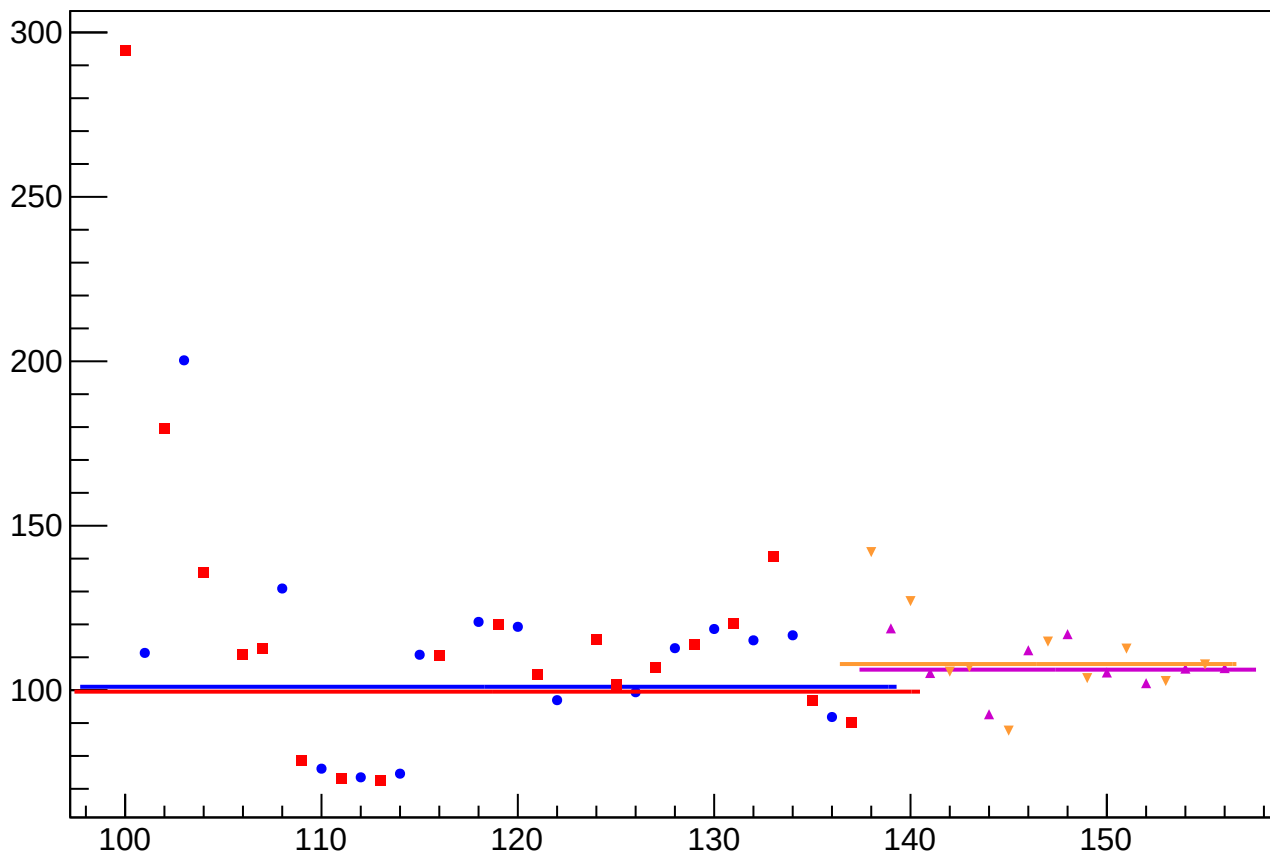
Right: -16.592 ± 27.274 χ^2/NDF : 38.1/34

In: 18.090 ± 27.377 χ^2/NDF : 30.3/24

Out: 43.926 ± 27.345 χ^2/NDF : 32.4/28

All: 31.023 ± 19.347 χ^2/NDF : 63.2/53

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: 107.946 $\pm$ 0.028 χ^2 /NDF: 221839.2/9

Right Out: 99.547 $\pm$ 0.027 χ^2 /NDF: 880497.8/18

Left In: 106.235 $\pm$ 0.027 χ^2 /NDF: 77278.1/8

Left: 107.074 $\pm$ 0.019 χ^2 /NDF: 301059.9/18

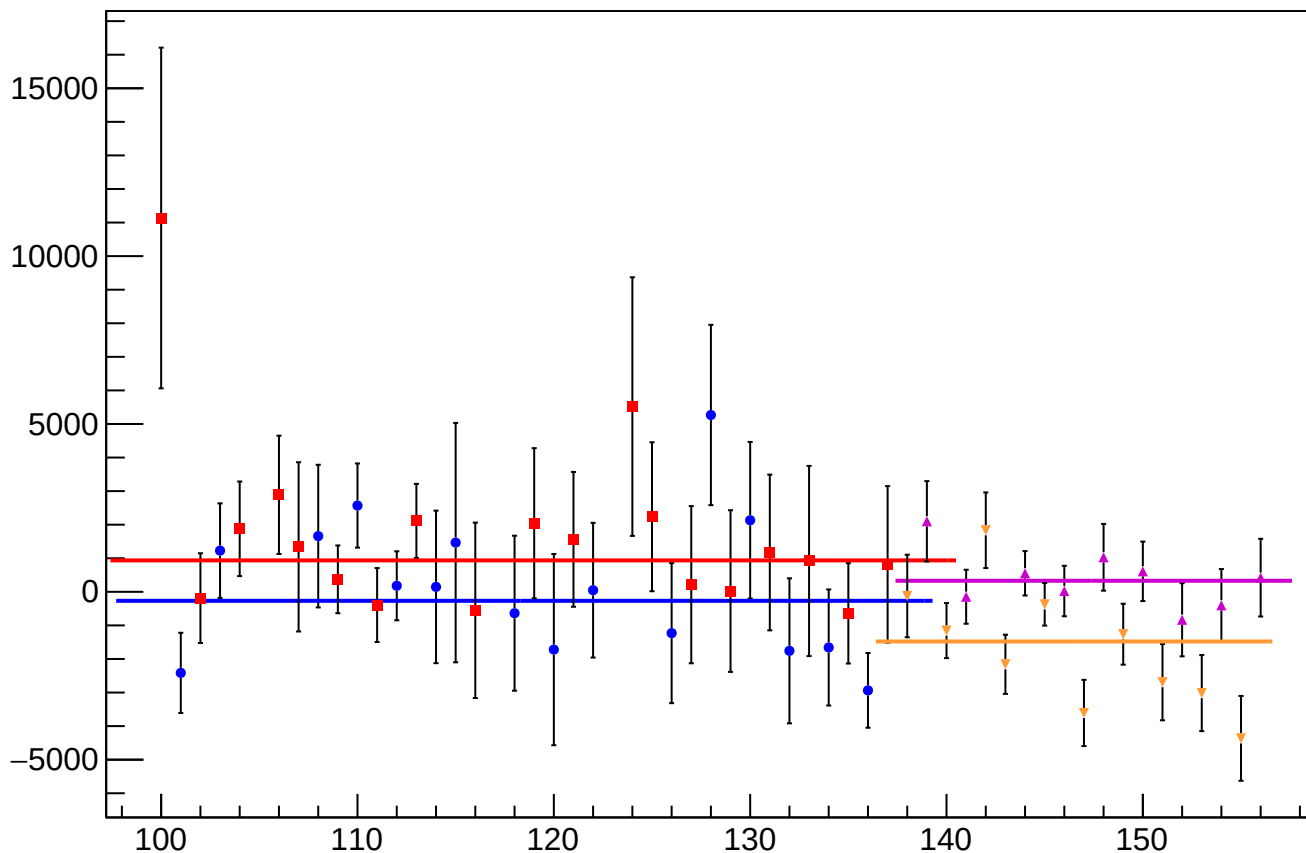
Right: 100.273 $\pm$ 0.019 χ^2 /NDF: 1598073.3/34

In: 103.670 $\pm$ 0.019 χ^2 /NDF: 811436.2/24

Out: 103.634 $\pm$ 0.019 χ^2 /NDF: 1149475.4/28

All: 103.652 $\pm$ 0.014 χ^2 /NDF: 1960913.2/53

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: -1479.333 ± 299.640 χ^2/NDF : 26.6/9

Right Out: 936.734 ± 396.234 χ^2/NDF : 13.1/18

Left In: 329.590 ± 301.075 χ^2/NDF : 5.0/8

Left: -579.192 ± 212.383 χ^2/NDF : 49.7/18

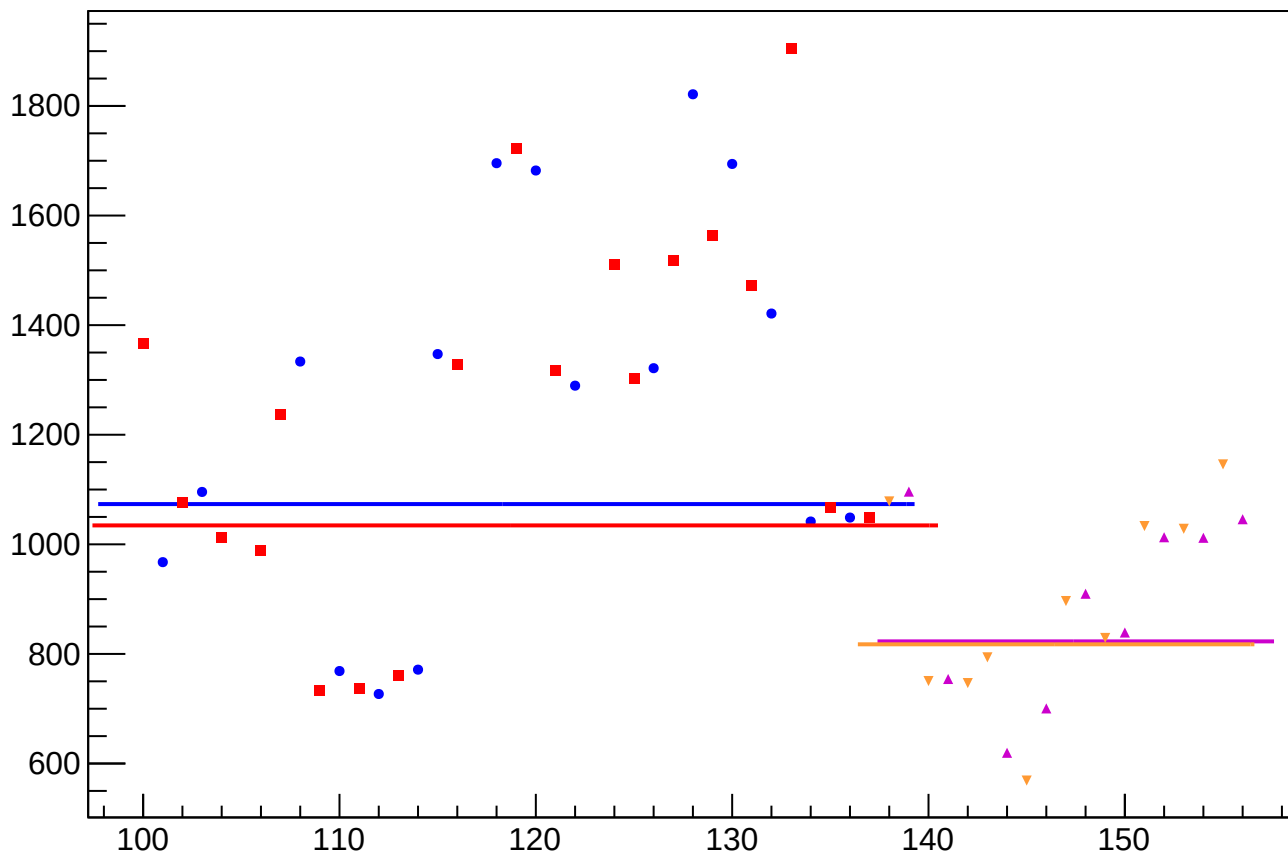
Right: 365.251 ± 287.261 χ^2/NDF : 41.0/34

In: 124.897 ± 244.113 χ^2/NDF : 29.8/24

Out: -600.333 ± 238.997 χ^2/NDF : 63.4/28

All: -245.398 ± 170.776 χ^2/NDF : 97.7/53

asym_sam_3748_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1073.456 ± 0.295 $\chi^2/\text{NDF}: 1077055.9/15$

Left Out: 817.546 ± 0.212 $\chi^2/\text{NDF}: 710006.0/9$

Right Out: 1034.535 ± 0.280 $\chi^2/\text{NDF}: 1229344.1/18$

Left In: 822.898 ± 0.213 $\chi^2/\text{NDF}: 573087.3/8$

Left: 820.210 ± 0.150 $\chi^2/\text{NDF}: 1283410.8/18$

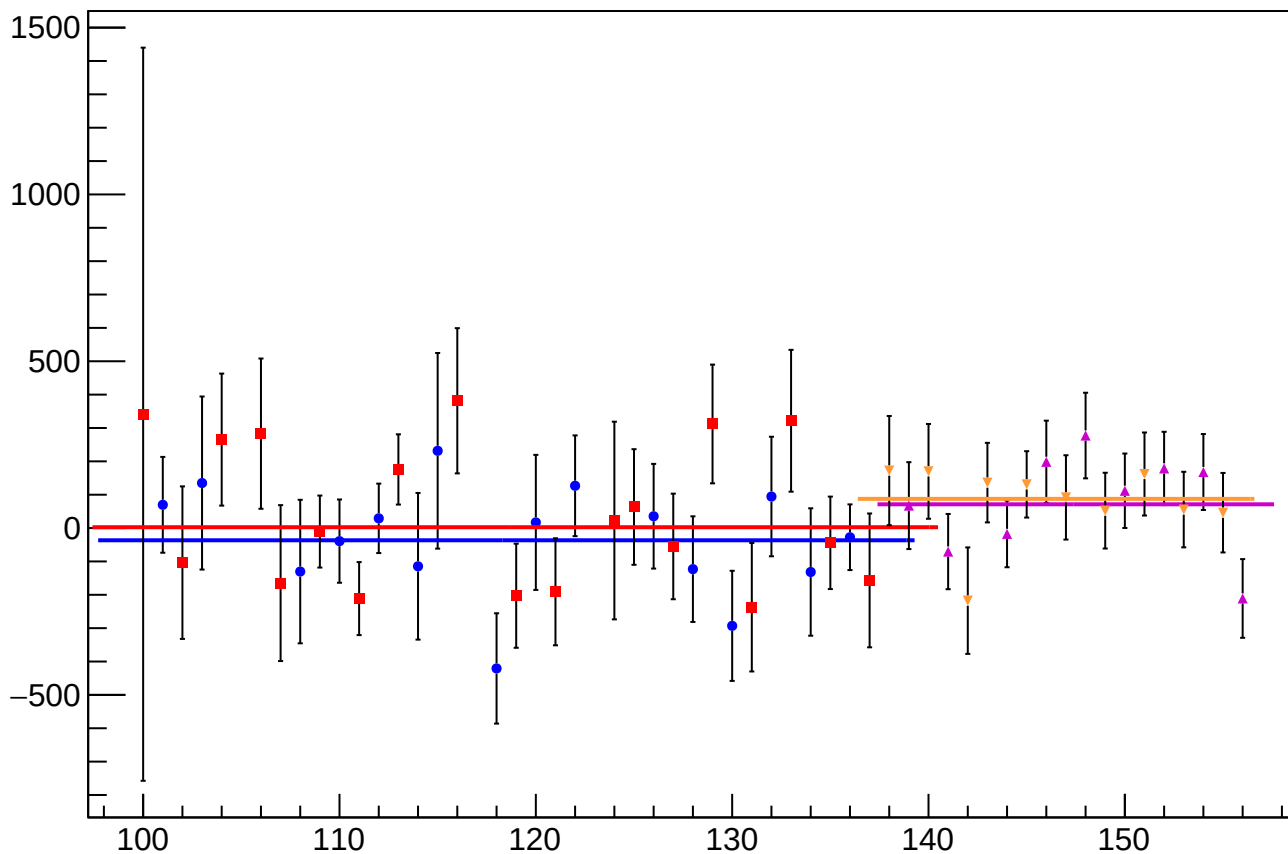
Right: 1052.999 ± 0.203 $\chi^2/\text{NDF}: 2315554.6/34$

In: 908.738 ± 0.173 $\chi^2/\text{NDF}: 2124687.1/24$

Out: 896.490 ± 0.169 $\chi^2/\text{NDF}: 2320927.7/28$

All: 902.484 ± 0.121 $\chi^2/\text{NDF}: 4448185.6/53$

eigen_dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.589 ± 38.991 χ^2/NDF : 12.9/15

Left Out: 87.559 ± 39.200 χ^2/NDF : 5.3/9

Right Out: 2.566 ± 38.165 χ^2/NDF : 24.7/18

Left In: 71.263 ± 38.449 χ^2/NDF : 13.6/8

Left: 79.253 ± 27.449 χ^2/NDF : 18.9/18

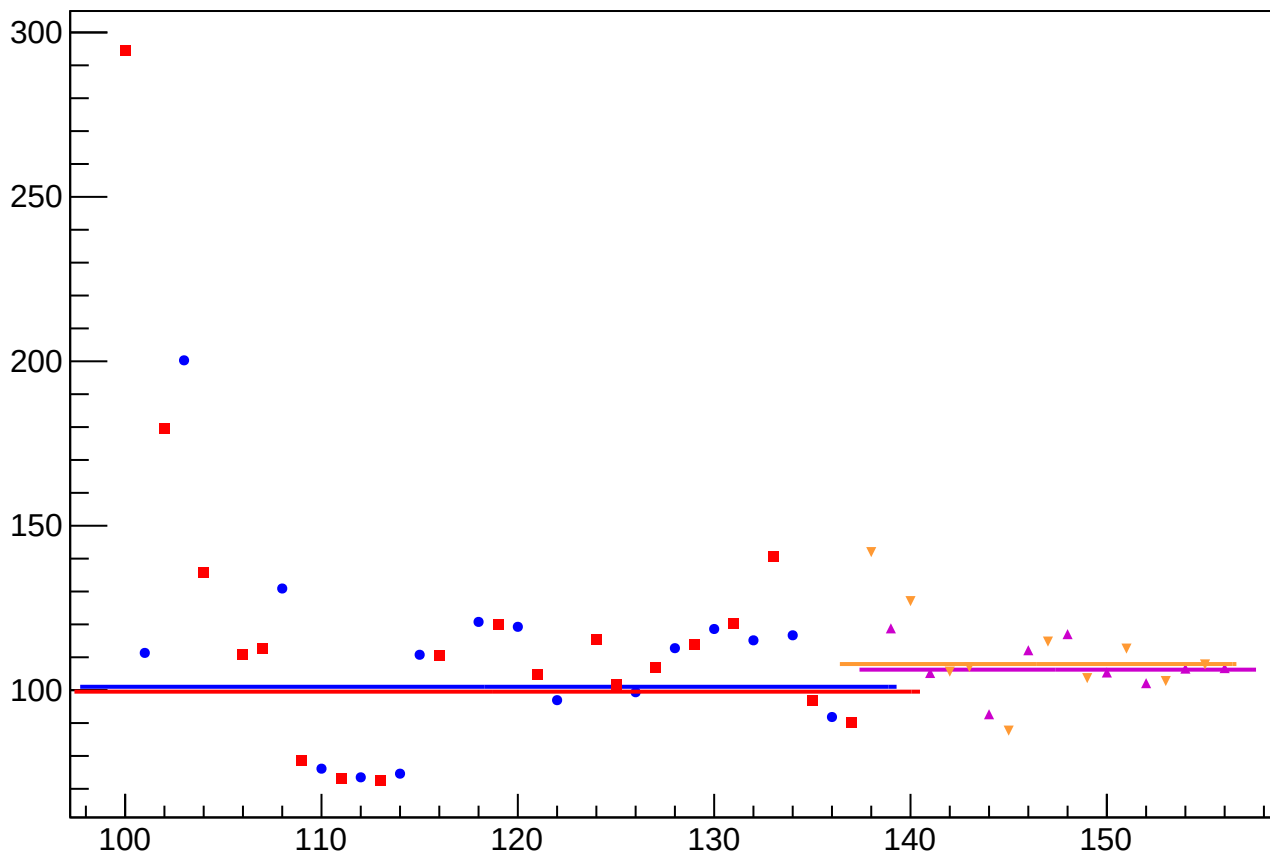
Right: -16.593 ± 27.274 χ^2/NDF : 38.1/34

In: 18.091 ± 27.377 χ^2/NDF : 30.3/24

Out: 43.925 ± 27.345 χ^2/NDF : 32.4/28

All: 31.023 ± 19.347 χ^2/NDF : 63.2/53

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: 107.947 ± 0.028 χ^2/NDF : 221832.1/9

Right Out: 99.547 ± 0.027 χ^2/NDF : 880499.8/18

Left In: 106.236 ± 0.027 χ^2/NDF : 77275.2/8

Left: 107.075 ± 0.019 χ^2/NDF : 301050.0/18

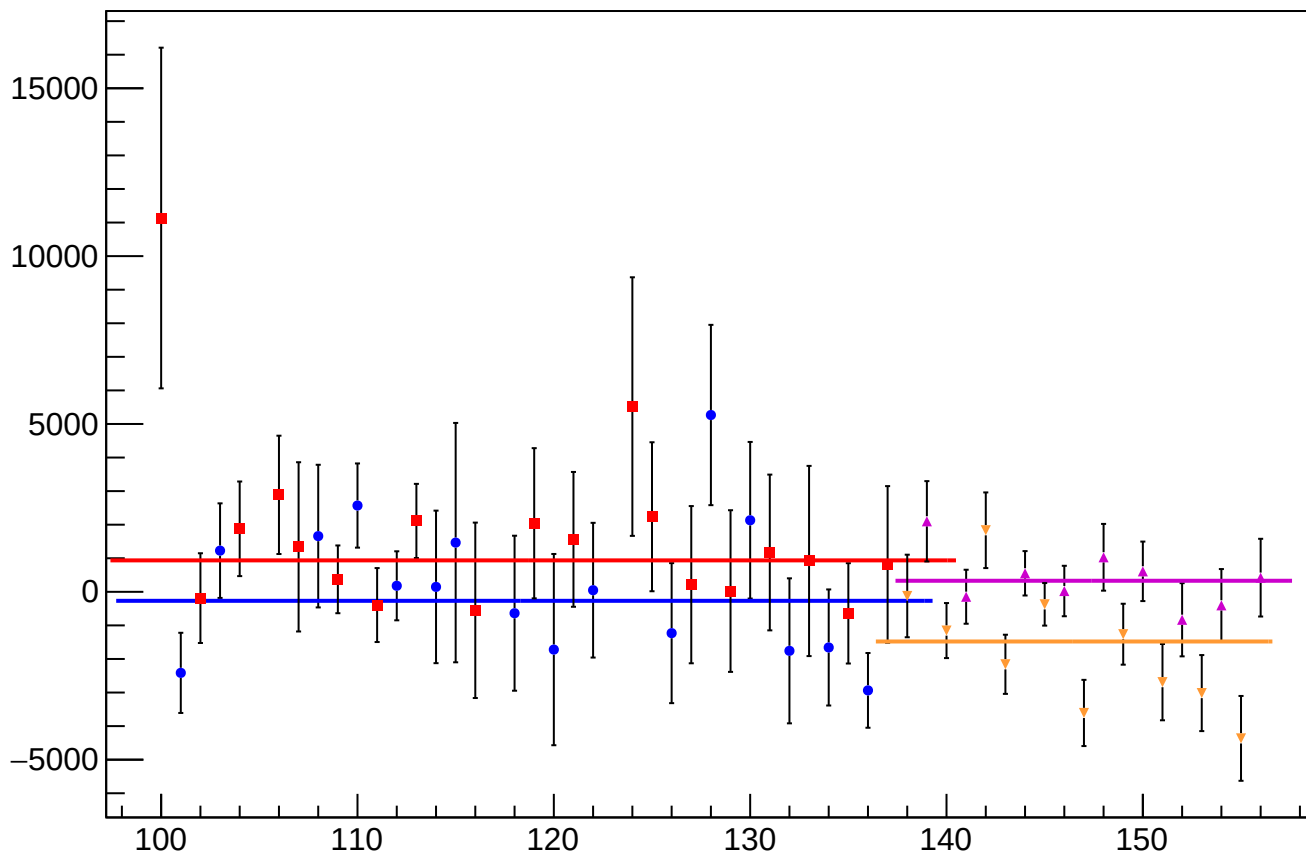
Right: 100.273 ± 0.019 χ^2/NDF : 1598074.0/34

In: 103.670 ± 0.019 χ^2/NDF : 811434.2/24

Out: 103.635 ± 0.019 χ^2/NDF : 1149474.6/28

All: 103.652 ± 0.014 χ^2/NDF : 1960910.5/53

asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -267.885 ± 417.061 $\chi^2/\text{NDF}: 23.5/15$

Left Out: -1479.332 ± 299.640 $\chi^2/\text{NDF}: 26.6/9$

Right Out: 936.732 ± 396.234 $\chi^2/\text{NDF}: 13.1/18$

Left In: 329.589 ± 301.075 $\chi^2/\text{NDF}: 5.0/8$

Left: -579.193 ± 212.383 $\chi^2/\text{NDF}: 49.7/18$

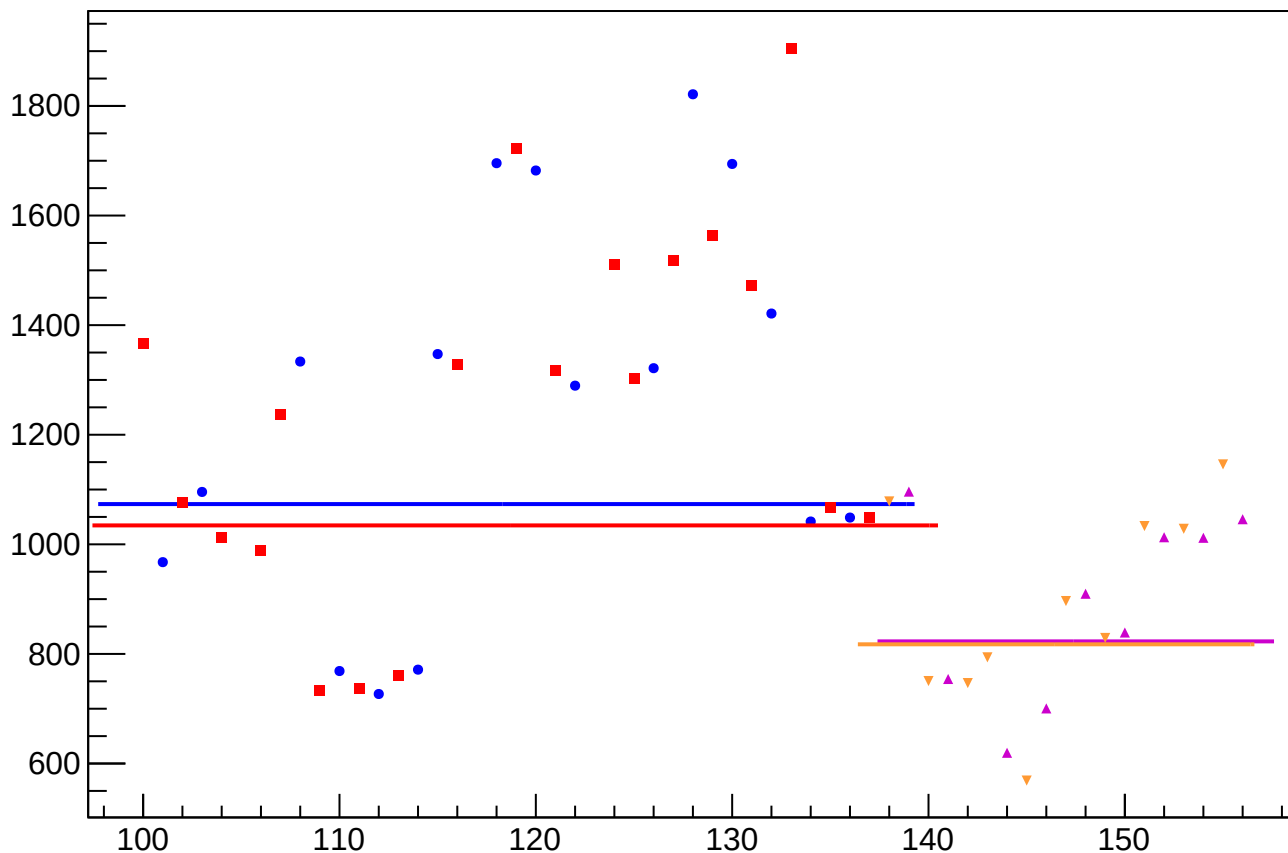
Right: 365.251 ± 287.260 $\chi^2/\text{NDF}: 41.0/34$

In: 124.897 ± 244.113 $\chi^2/\text{NDF}: 29.8/24$

Out: -600.333 ± 238.996 $\chi^2/\text{NDF}: 63.4/28$

All: -245.398 ± 170.776 $\chi^2/\text{NDF}: 97.7/53$

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: 817.545+/-0.212 χ^2/NDF : 710009.1/9

Right Out: 1034.533+/-0.280 χ^2/NDF : 1229346.7/18

Left In: 822.897+/-0.213 χ^2/NDF : 573086.5/8

Left: 820.209+/-0.150 χ^2/NDF : 1283413.1/18

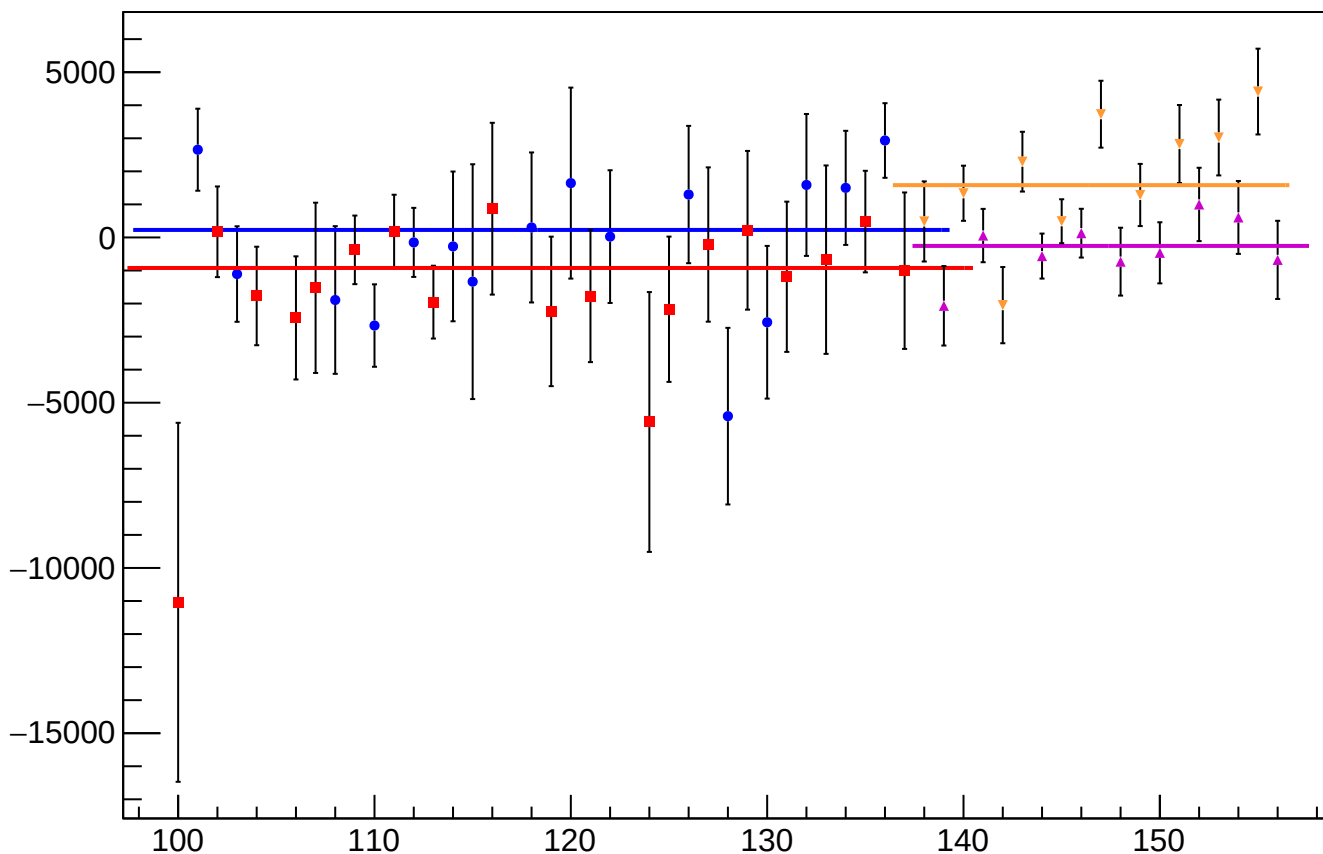
Right: 1052.997+/-0.203 χ^2/NDF : 2315562.9/34

In: 908.737+/-0.173 χ^2/NDF : 2124689.2/24

Out: 896.489+/-0.169 χ^2/NDF : 2320932.9/28

All: 902.483+/-0.121 χ^2/NDF : 4448193.0/53

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 227.502 $\pm$ 421.838 χ^2 /NDF: 24.4/15

Left Out: 1582.288 $\pm$ 308.134 χ^2 /NDF:26.2/9

Right Out: -923.649 $\pm$ 403.102 χ^2 /NDF: 11.2/18

Left In: -256.225 $\pm$ 305.836 χ^2 /NDF:5.2/8

Left: 656.150 $\pm$ 217.067 χ^2 /NDF: 49.3/18

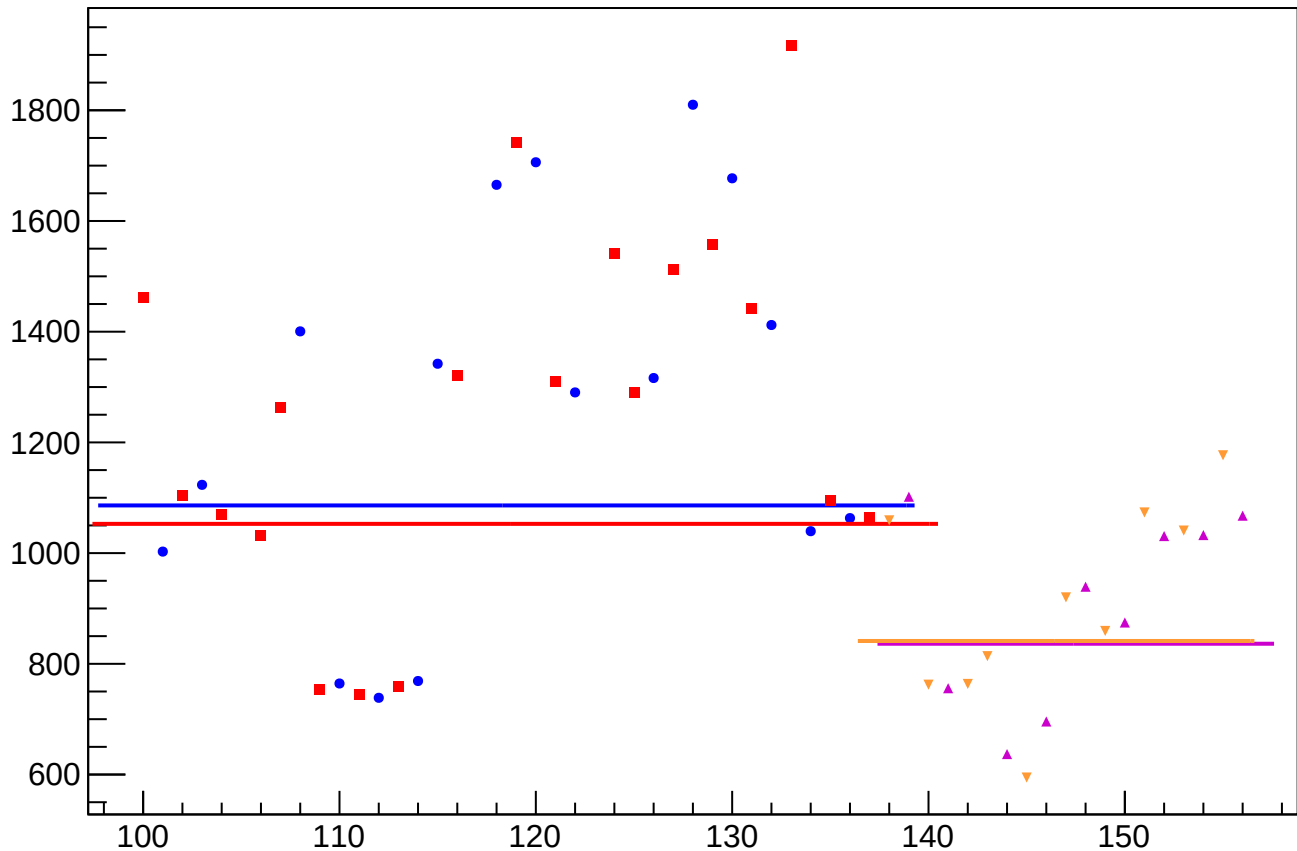
Right: -374.204 $\pm$ 291.435 χ^2 /NDF: 39.5/34

In: -89.563 $\pm$ 247.607 χ^2 /NDF:30.5/24

Out: 658.063 $\pm$ 244.804 χ^2 /NDF:61.8/28

All: 288.506 $\pm$ 174.085 χ^2 /NDF: 96.9/53

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 1086.137+/-0.298 χ^2/NDF : 1047479.6/15

Left Out: 841.254+/-0.218 χ^2/NDF : 653166.8/9

Right Out: 1052.831+/-0.285 χ^2/NDF : 1194420.8/18

Left In: 836.281+/-0.216 χ^2/NDF : 586330.4/8

Left: 838.749+/-0.153 χ^2/NDF : 1239759.6/18

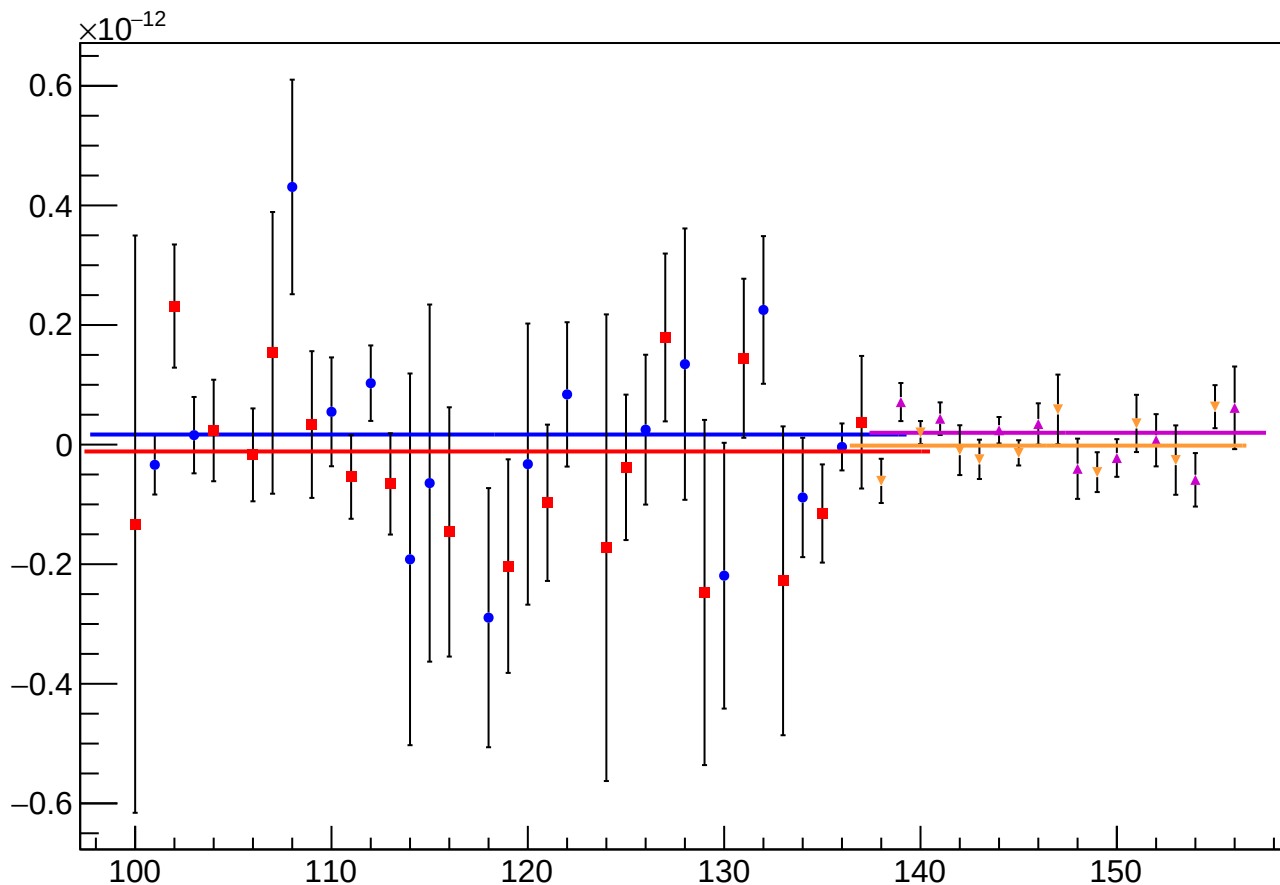
Right: 1068.728+/-0.206 χ^2/NDF : 2248417.5/34

In: 922.365+/-0.175 χ^2/NDF : 2093716.4/24

Out: 919.286+/-0.173 χ^2/NDF : 2195359.3/28

All: 920.808+/-0.123 χ^2/NDF : 4289232.2/53

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 : 11.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.3/8

Left: 0.000+/-0.000 χ^2/NDF : 23.9/18

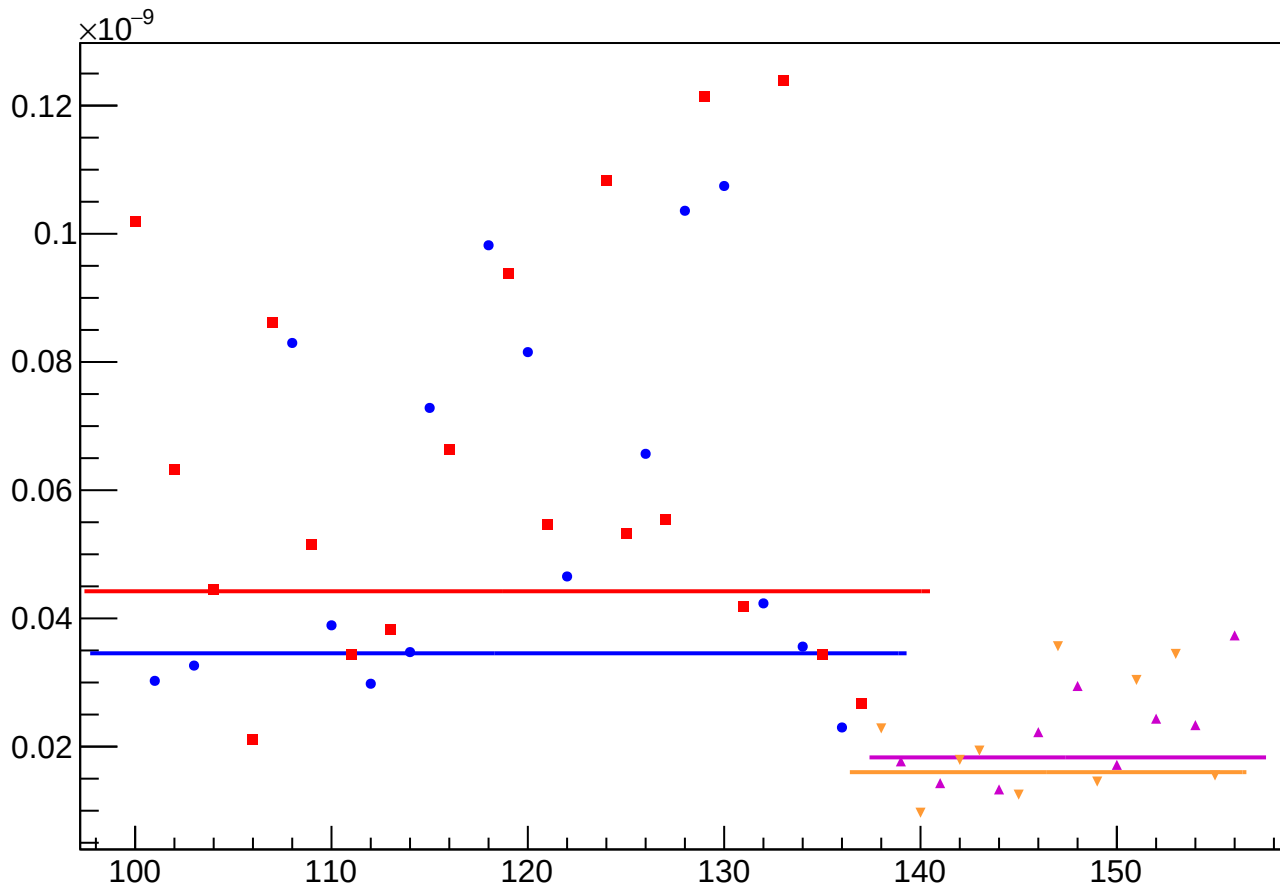
Right: 0.000+/-0.000 χ^2/NDF : 33.4/34

In: 0.000+/-0.000 χ^2/NDF : 27.2/24

Out: -0.000+/-0.000 χ^2/NDF : 27.5/28

All: 0.000+/-0.000 χ^2/NDF : 57.3/53

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 : 979795.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1073061.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 487731.4/8

Left: 0.000+/-0.000 χ^2/NDF : 1513968.5/18

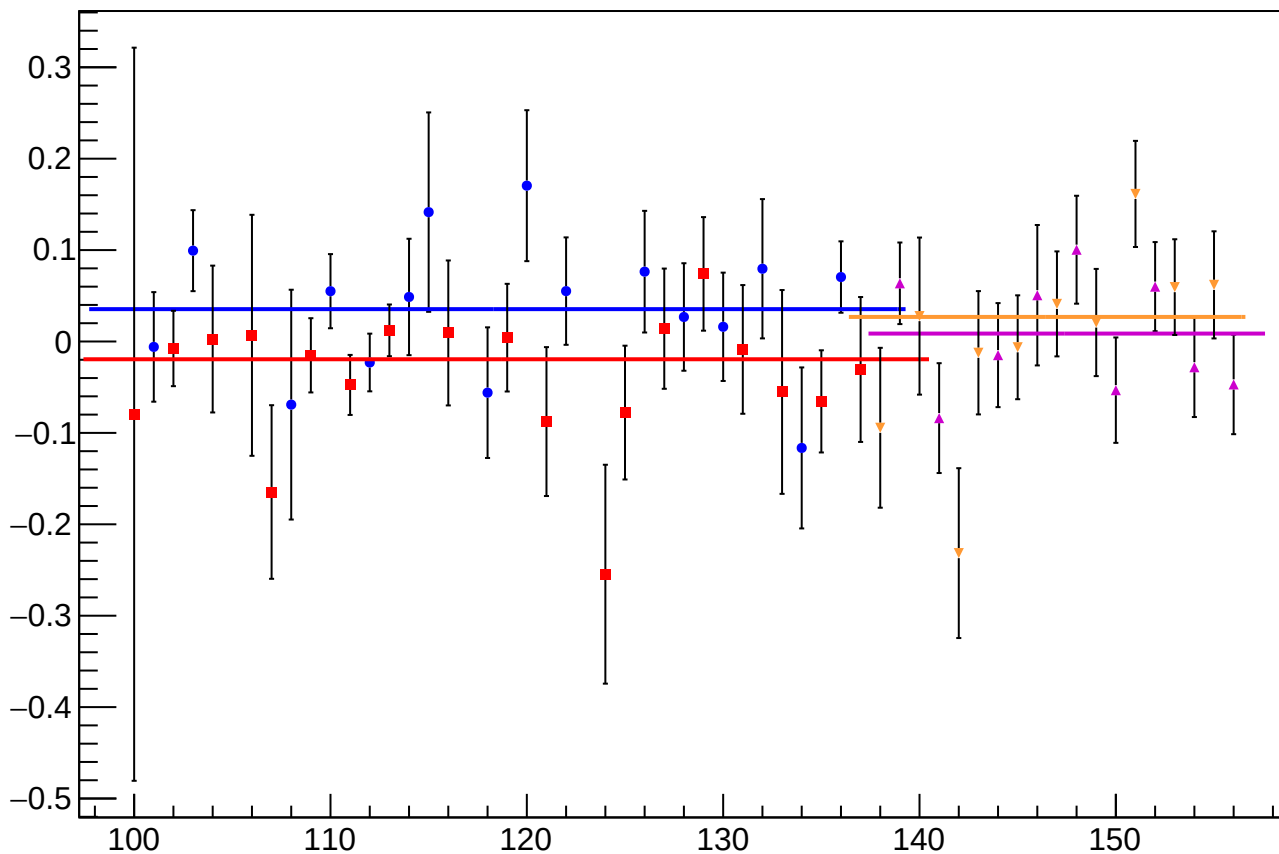
Right: 0.000+/-0.000 χ^2/NDF : 2418011.3/34

In: 0.000+/-0.000 χ^2/NDF : 2550213.2/24

Out: 0.000+/-0.000 χ^2/NDF : 3984770.2/28

All: 0.000+/-0.000 χ^2/NDF : 6589571.7/53

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: 0.027 $\pm$ 0.020 χ^2 /NDF:16.5/9

Right Out: -0.019 $\pm$ 0.013 χ^2 /NDF: 13.4/18

Left In: 0.009 $\pm$ 0.018 χ^2 /NDF:10.5/8

Left: 0.017 $\pm$ 0.014 χ^2 /NDF: 27.5/18

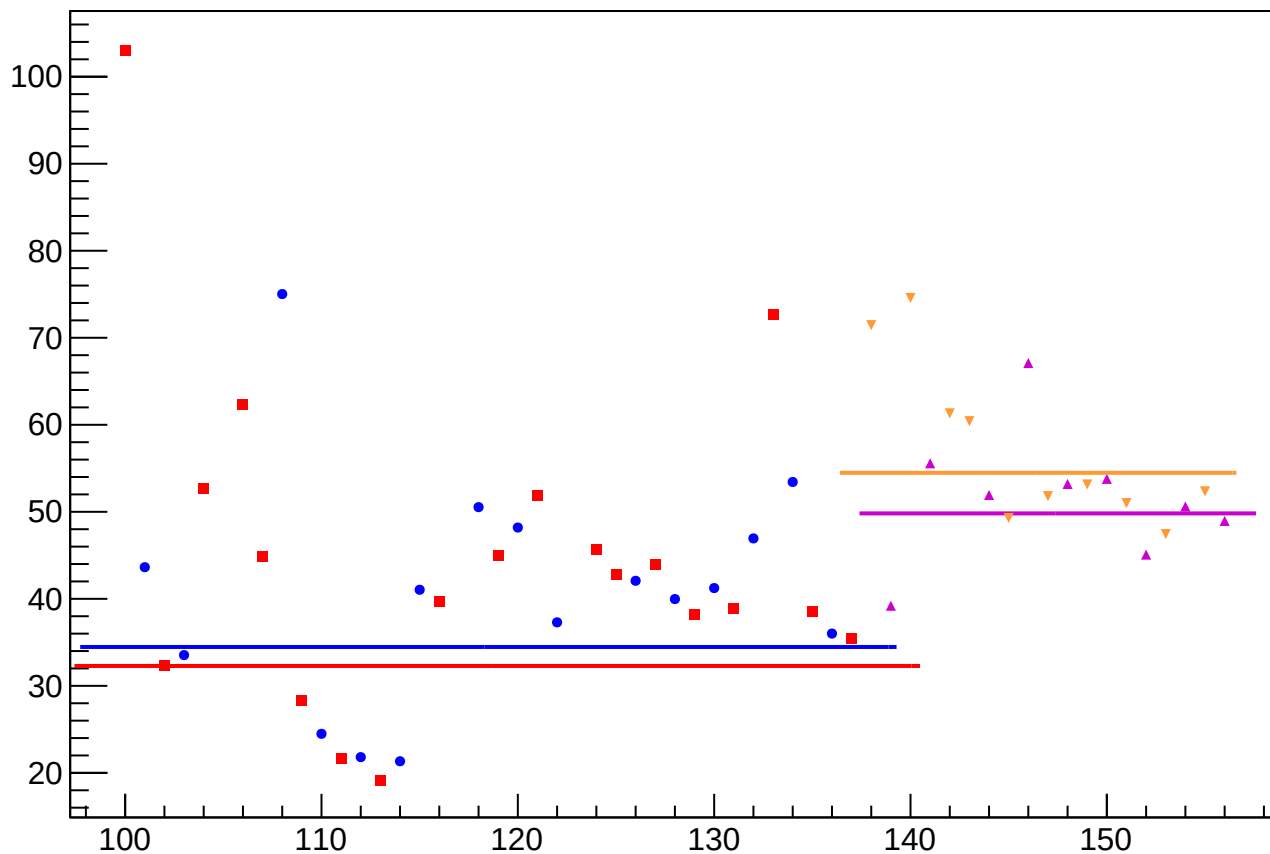
Right: 0.006 $\pm$ 0.010 χ^2 /NDF: 38.6/34

In: 0.026 $\pm$ 0.011 χ^2 /NDF:28.8/24

Out: -0.006 $\pm$ 0.011 χ^2 /NDF:33.6/28

All: 0.010 $\pm$ 0.008 χ^2 /NDF: 66.5/53

asym_sam_3748_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468+/-0.010 χ^2/NDF : 1171203.3/15

Left Out: 54.485+/-0.014 χ^2/NDF : 278867.6/9

Right Out: 32.285+/-0.009 χ^2/NDF : 1672637.0/18

Left In: 49.818+/-0.013 χ^2/NDF : 271245.1/8

Left: 51.943+/-0.010 χ^2/NDF : 608421.9/18

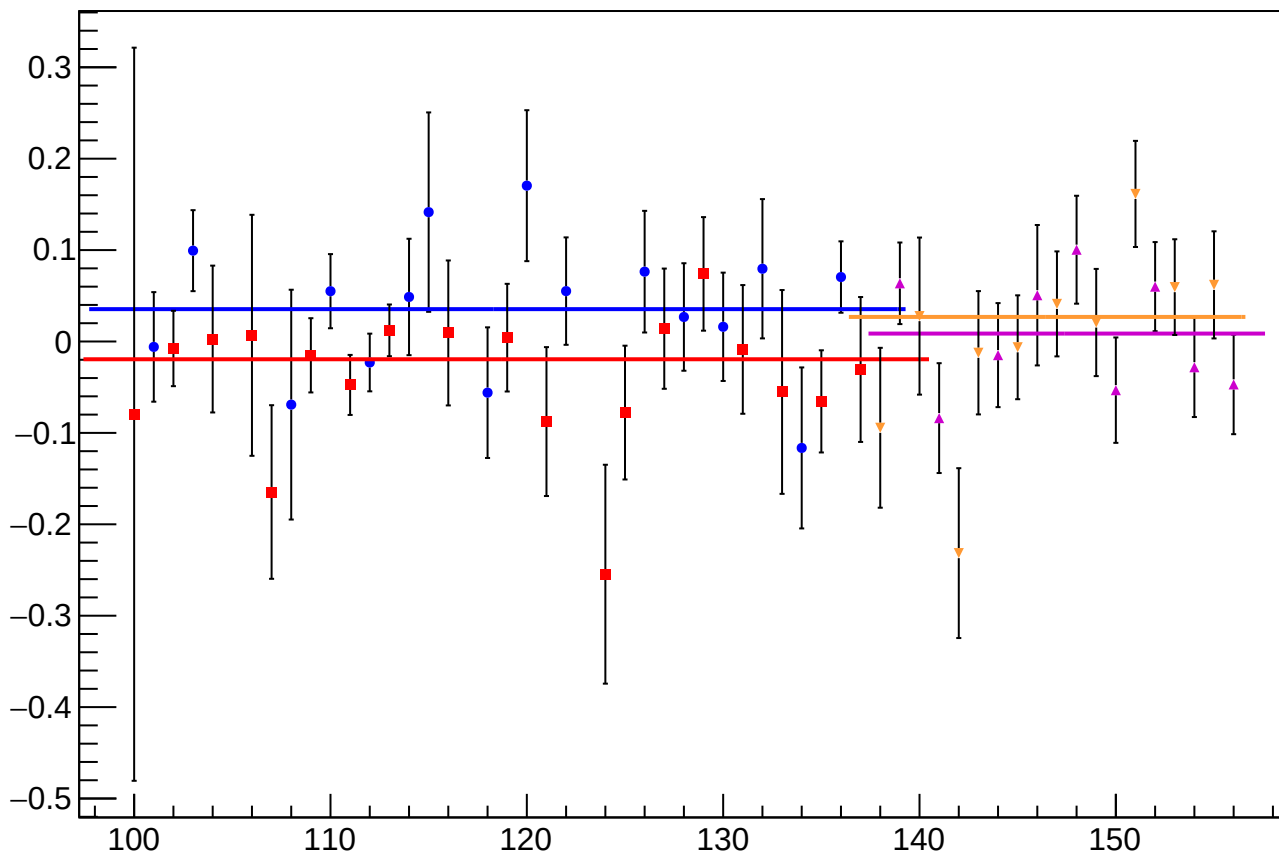
Right: 33.314+/-0.007 χ^2/NDF : 2869944.8/34

In: 40.024+/-0.008 χ^2/NDF : 2326439.2/24

Out: 38.887+/-0.008 χ^2/NDF : 3653662.5/28

All: 39.451+/-0.006 χ^2/NDF : 5990699.5/53

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 χ^2/NDF : 16.9/15

Left Out: 0.027 ± 0.020 χ^2/NDF : 16.5/9

Right Out: -0.019 ± 0.013 χ^2/NDF : 13.4/18

Left In: 0.009 ± 0.018 χ^2/NDF : 10.5/8

Left: 0.017 ± 0.014 χ^2/NDF : 27.5/18

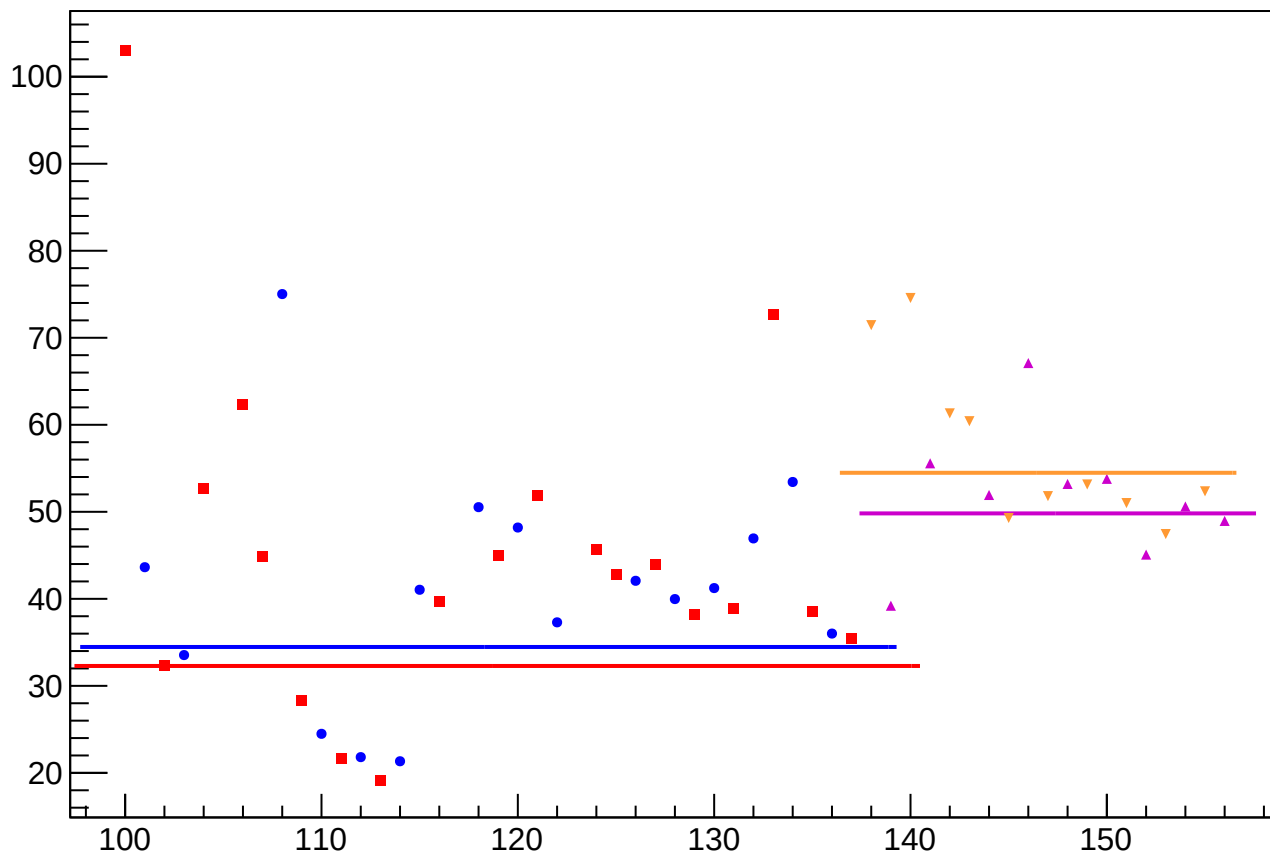
Right: 0.006 ± 0.010 χ^2/NDF : 38.6/34

In: 0.026 ± 0.011 χ^2/NDF : 28.8/24

Out: -0.006 ± 0.011 χ^2/NDF : 33.6/28

All: 0.010 ± 0.008 χ^2/NDF : 66.5/53

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468+/-0.010 χ^2/NDF : 1171203.3/15

Left Out: 54.485+/-0.014 χ^2/NDF : 278867.6/9

Right Out: 32.285+/-0.009 χ^2/NDF : 1672637.0/18

Left In: 49.818+/-0.013 χ^2/NDF : 271245.1/8

Left: 51.943+/-0.010 χ^2/NDF : 608421.9/18

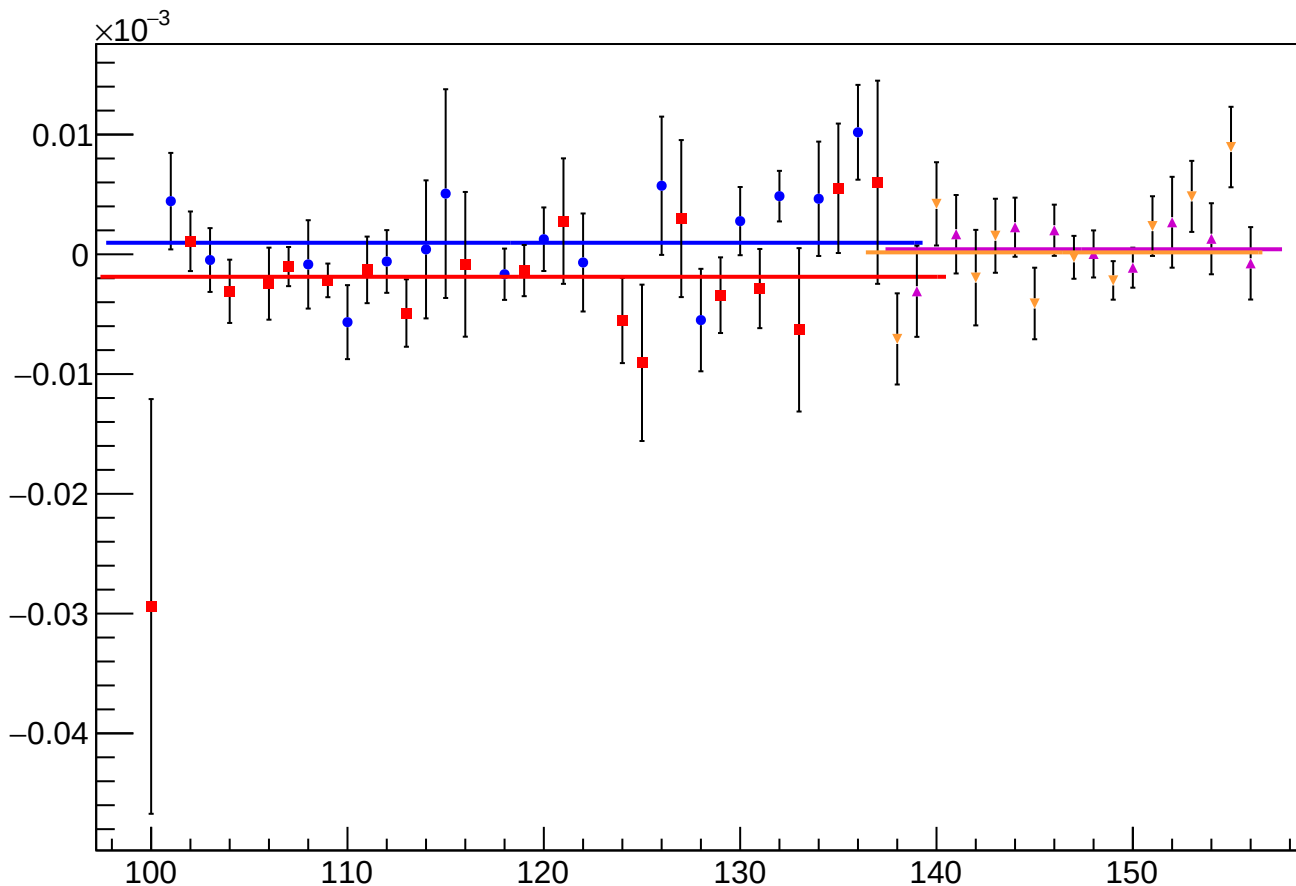
Right: 33.314+/-0.007 χ^2/NDF : 2869944.8/34

In: 40.024+/-0.008 χ^2/NDF : 2326439.2/24

Out: 38.887+/-0.008 χ^2/NDF : 3653662.5/28

All: 39.451+/-0.006 χ^2/NDF : 5990699.5/53

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:19.8/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.9/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:3.6/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.4/18

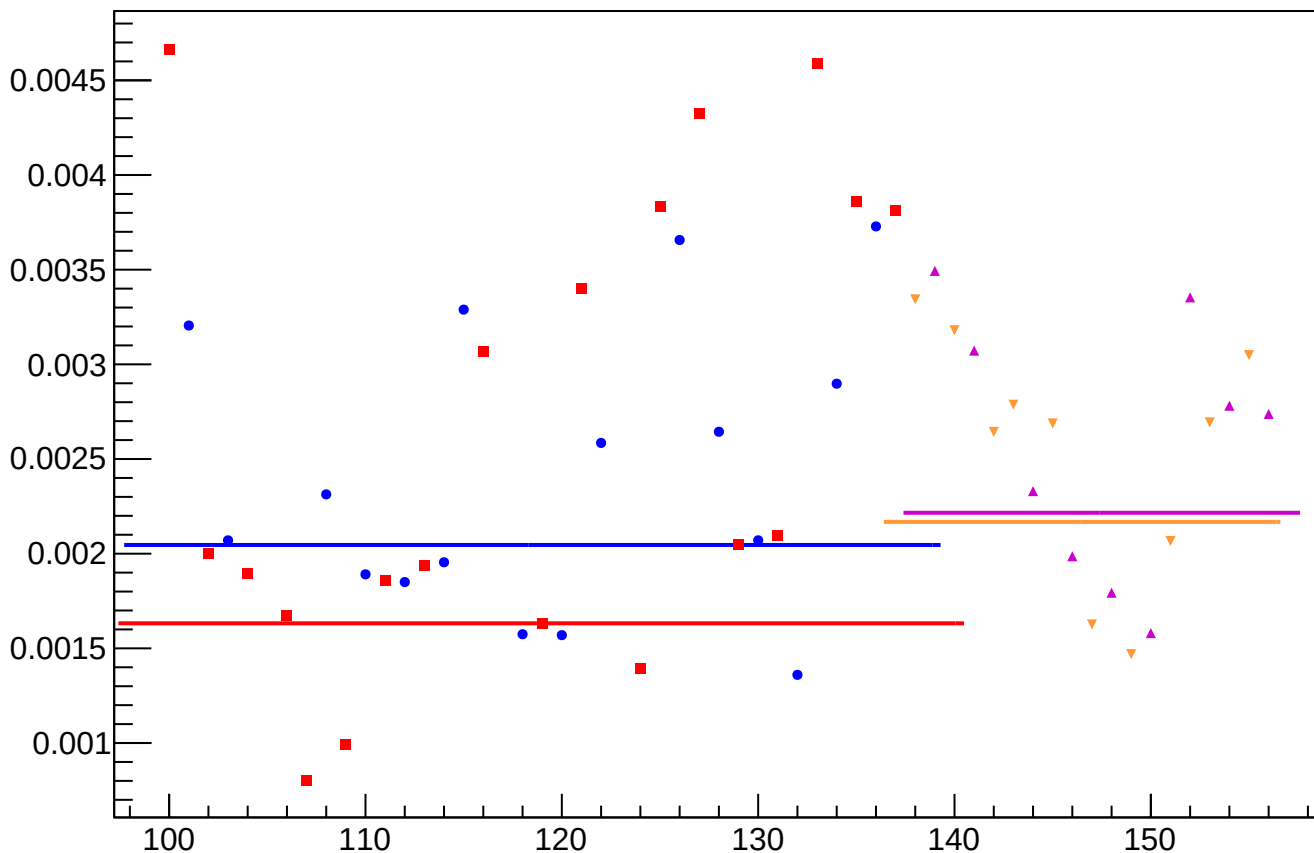
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:24.7/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:36.4/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 66.2/53

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1260485.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :1293084.9/9

Right Out: 0.002+/-0.000 χ^2/NDF : 2928991.9/18

Left In: 0.002+/-0.000 χ^2/NDF :1082740.7/8

Left: 0.002+/-0.000 χ^2/NDF : 2379207.6/18

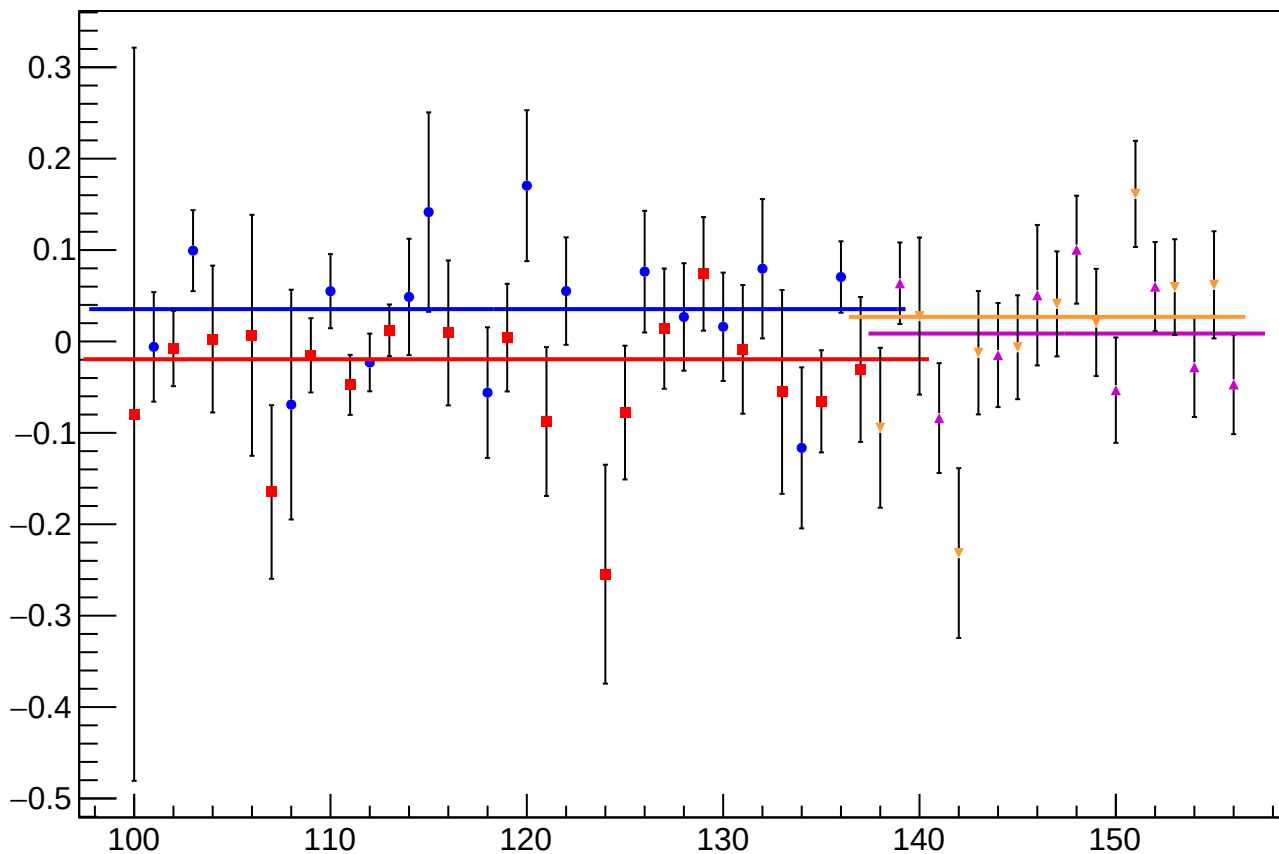
Right: 0.002+/-0.000 χ^2/NDF : 4499888.8/34

In: 0.002+/-0.000 χ^2/NDF :2386352.3/24

Out: 0.002+/-0.000 χ^2/NDF :4735391.0/28

All: 0.002+/-0.000 χ^2/NDF : 7384079.8/53

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 χ^2/NDF : 16.9/15

Left Out: 0.027 ± 0.020 χ^2/NDF : 16.5/9

Right Out: -0.019 ± 0.013 χ^2/NDF : 13.4/18

Left In: 0.009 ± 0.018 χ^2/NDF : 10.5/8

Left: 0.017 ± 0.014 χ^2/NDF : 27.5/18

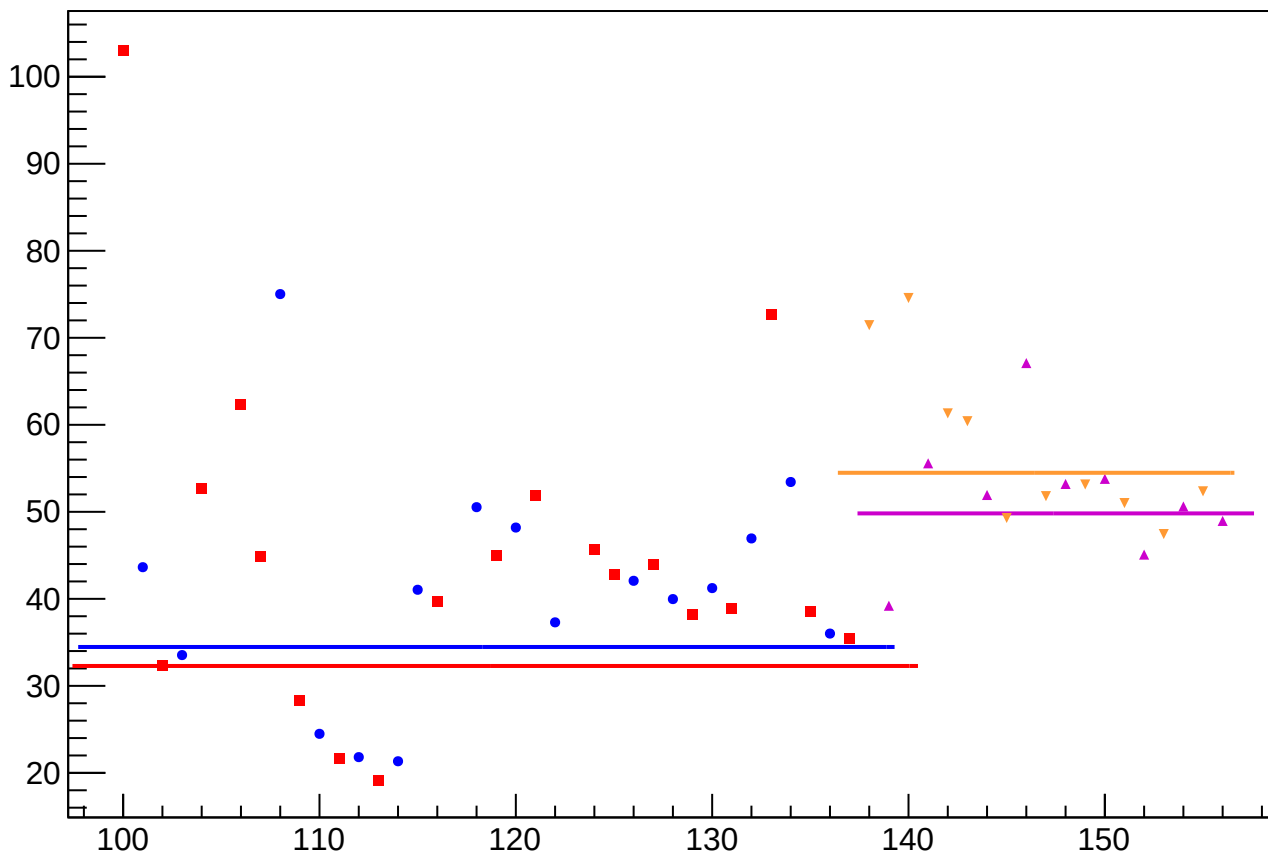
Right: 0.006 ± 0.010 χ^2/NDF : 38.6/34

In: 0.026 ± 0.011 χ^2/NDF : 28.8/24

Out: -0.006 ± 0.011 χ^2/NDF : 33.6/28

All: 0.010 ± 0.008 χ^2/NDF : 66.5/53

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469 $\pm$ 0.010 χ^2 /NDF: 1171158.4/15

Left Out: 54.486 $\pm$ 0.014 χ^2 /NDF: 278845.2/9

Right Out: 32.285 $\pm$ 0.009 χ^2 /NDF: 1672606.5/18

Left In: 49.819 $\pm$ 0.013 χ^2 /NDF: 271254.7/8

Left: 51.944 $\pm$ 0.010 χ^2 /NDF: 608414.2/18

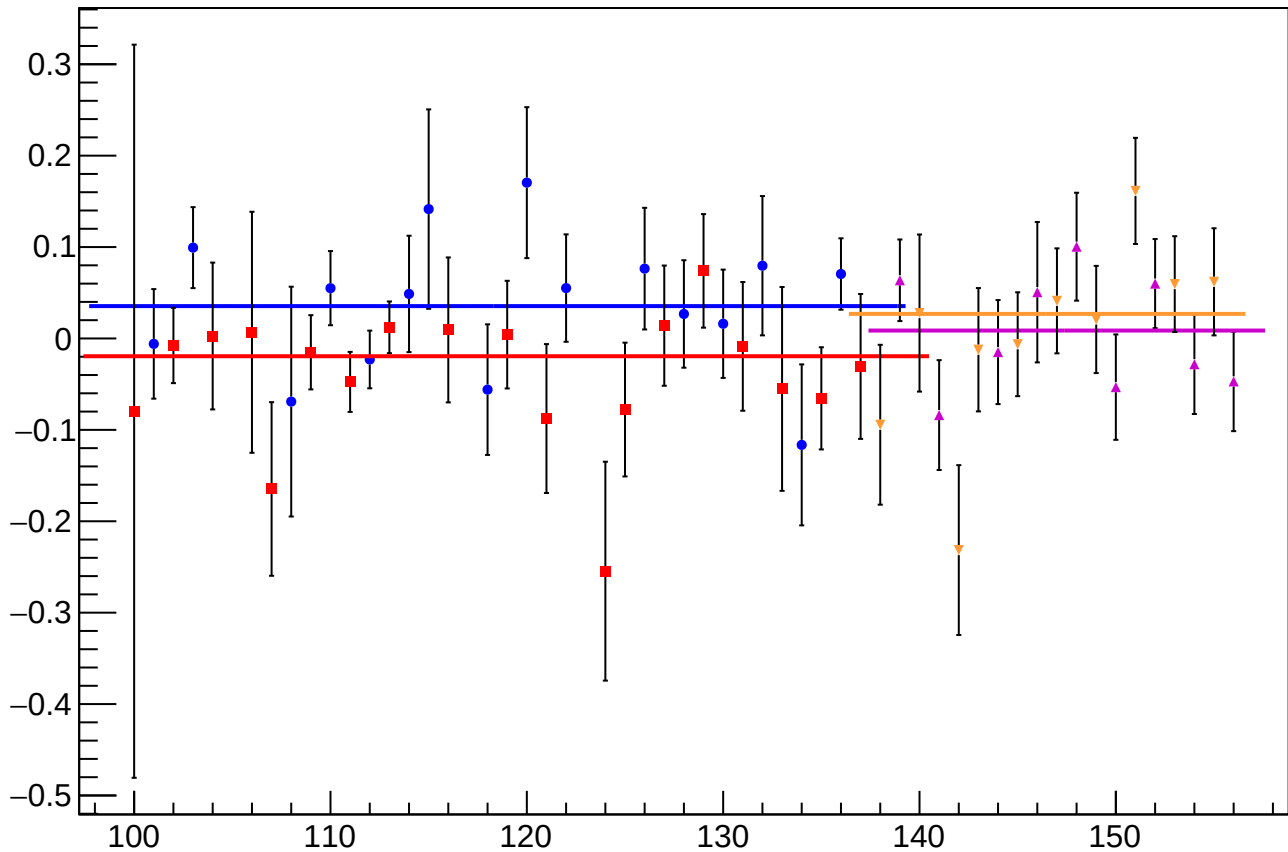
Right: 33.315 $\pm$ 0.007 χ^2 /NDF: 2869868.2/34

In: 40.025 $\pm$ 0.008 χ^2 /NDF: 2326427.7/24

Out: 38.887 $\pm$ 0.008 χ^2 /NDF: 3653657.7/28

All: 39.451 $\pm$ 0.006 χ^2 /NDF: 5990682.0/53

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 χ^2/NDF : 16.9/15

Left Out: 0.027 ± 0.020 χ^2/NDF : 16.5/9

Right Out: -0.019 ± 0.013 χ^2/NDF : 13.4/18

Left In: 0.009 ± 0.018 χ^2/NDF : 10.5/8

Left: 0.017 ± 0.014 χ^2/NDF : 27.5/18

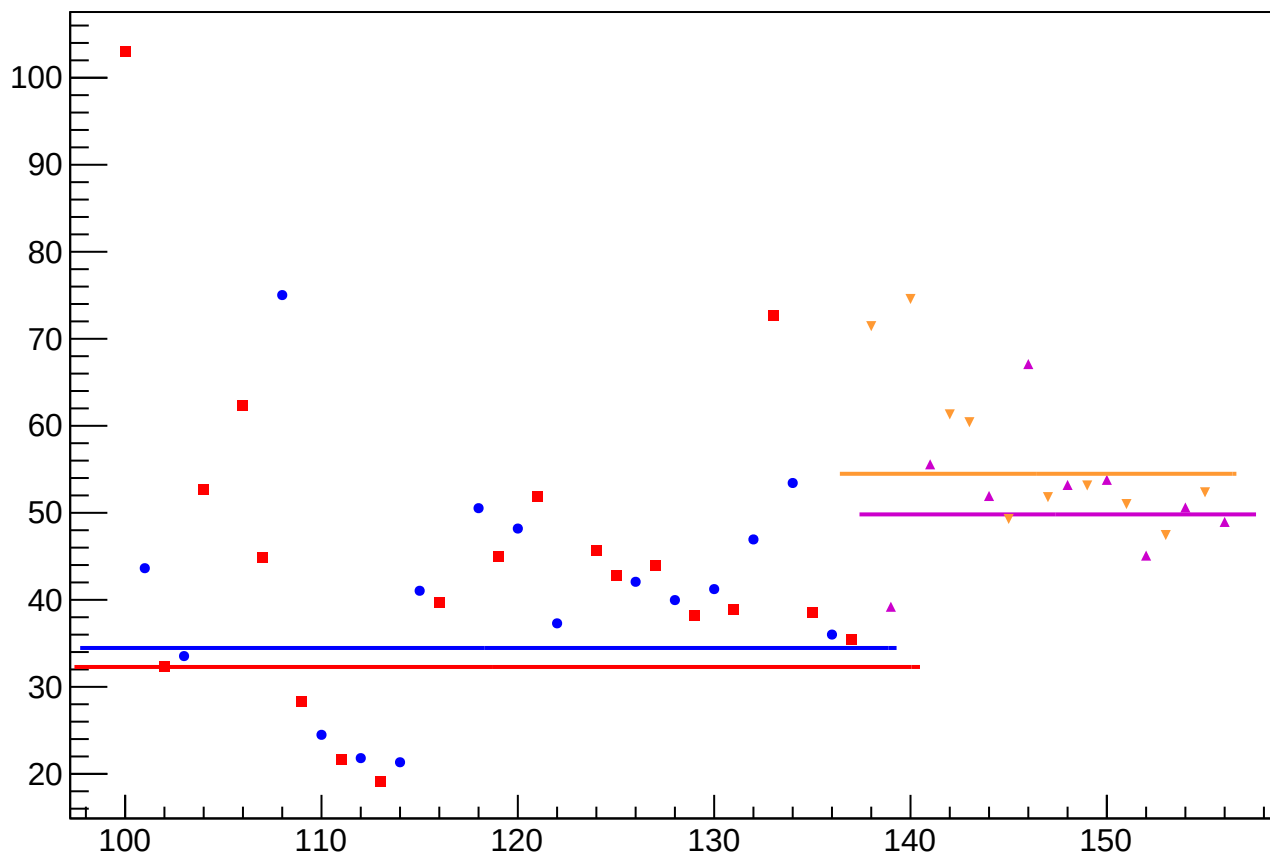
Right: 0.006 ± 0.010 χ^2/NDF : 38.6/34

In: 0.026 ± 0.011 χ^2/NDF : 28.8/24

Out: -0.006 ± 0.011 χ^2/NDF : 33.6/28

All: 0.010 ± 0.008 χ^2/NDF : 66.5/53

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469 ± 0.010 $\chi^2/\text{NDF}: 1171158.4/15$

Left Out: 54.486 ± 0.014 $\chi^2/\text{NDF}: 278845.2/9$

Right Out: 32.285 ± 0.009 $\chi^2/\text{NDF}: 1672606.5/18$

Left In: 49.819 ± 0.013 $\chi^2/\text{NDF}: 271254.7/8$

Left: 51.944 ± 0.010 $\chi^2/\text{NDF}: 608414.2/18$

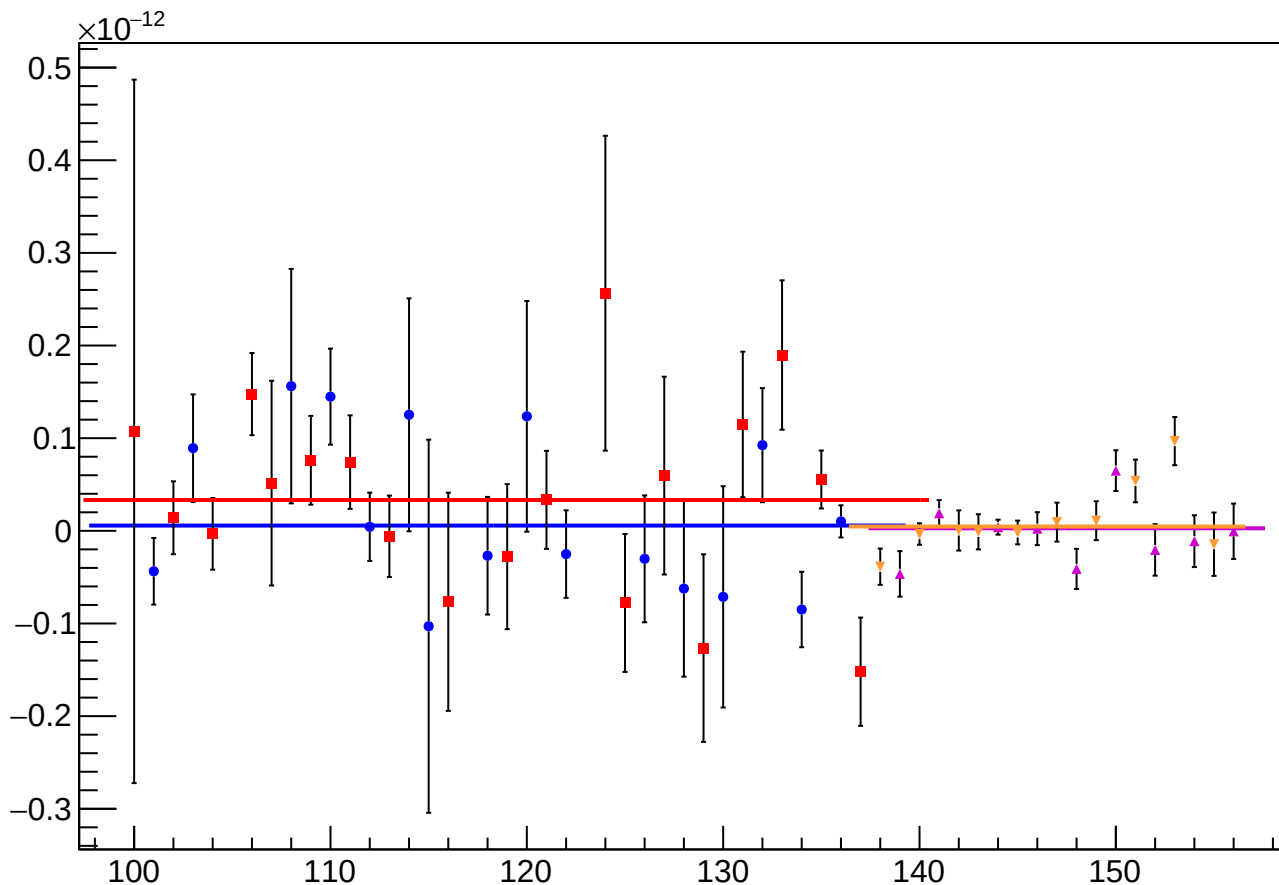
Right: 33.315 ± 0.007 $\chi^2/\text{NDF}: 2869868.2/34$

In: 40.025 ± 0.008 $\chi^2/\text{NDF}: 2326427.7/24$

Out: 38.887 ± 0.008 $\chi^2/\text{NDF}: 3653657.7/28$

All: 39.451 ± 0.006 $\chi^2/\text{NDF}: 5990682.0/53$

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 : 23.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 33.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 18.4/8

Left: 0.000+/-0.000 χ^2/NDF : 41.8/18

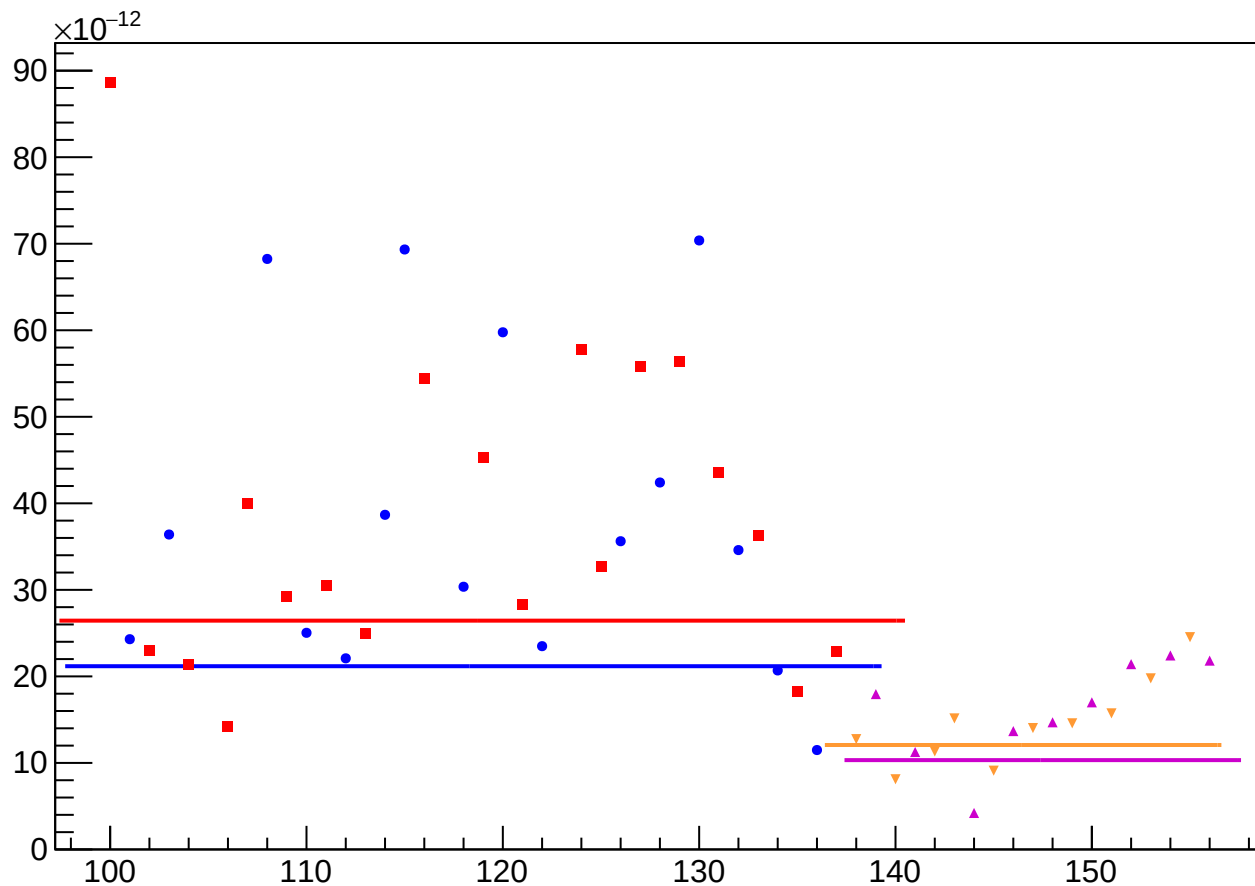
Right: 0.000+/-0.000 χ^2/NDF : 59.6/34

In: 0.000+/-0.000 χ^2/NDF : 42.0/24

Out: 0.000+/-0.000 χ^2/NDF : 60.8/28

All: 0.000+/-0.000 χ^2/NDF : 103.6/53

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 : 937010.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1217987.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 2672405.3/8

Left: 0.000+/-0.000 χ^2/NDF : 3705219.6/18

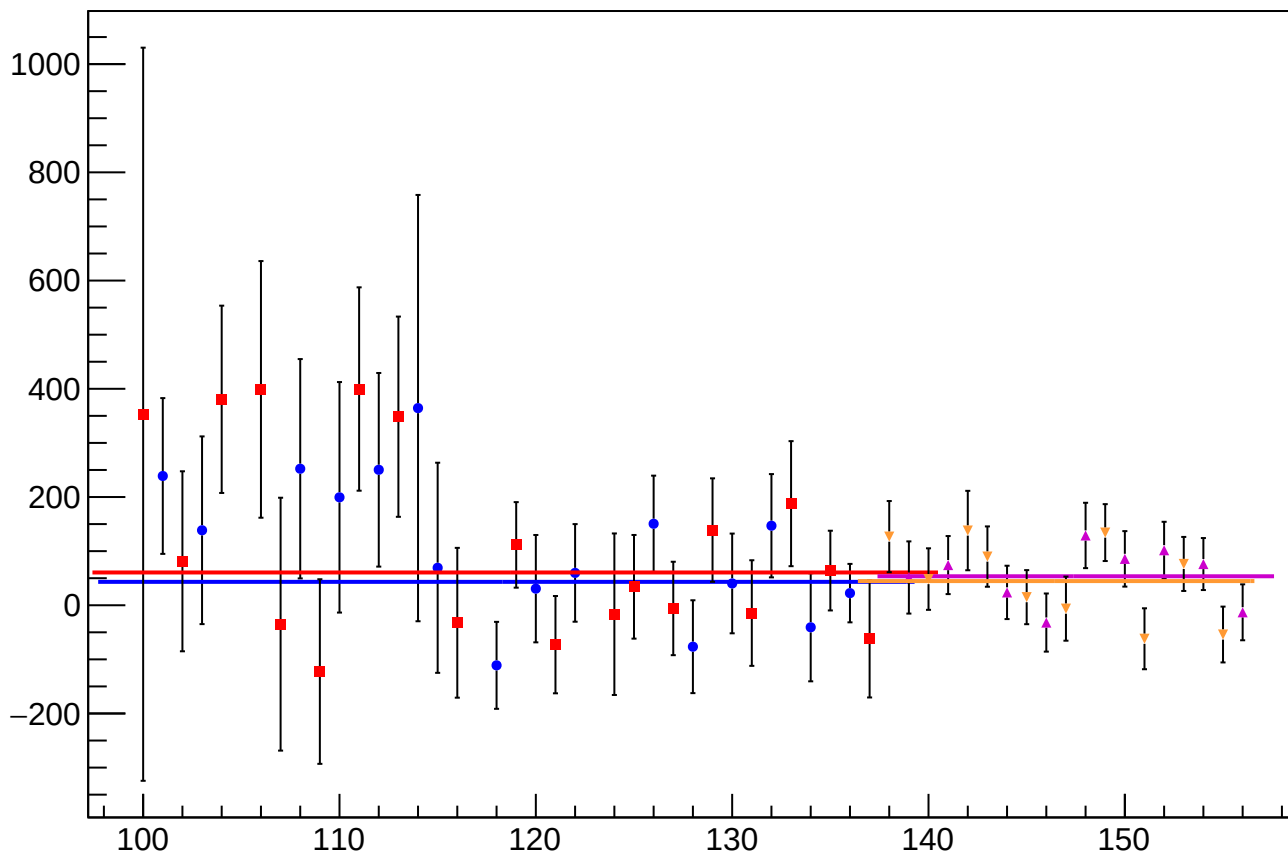
Right: 0.000+/-0.000 χ^2/NDF : 3483999.9/34

In: 0.000+/-0.000 χ^2/NDF : 6221240.4/24

Out: 0.000+/-0.000 χ^2/NDF : 4185055.1/28

All: 0.000+/-0.000 χ^2/NDF : 10568786.6/53

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: 44.671 $\pm$ 17.710 χ^2 /NDF:15.5/9

Right Out: 60.582 $\pm$ 26.894 χ^2 /NDF: 20.4/18

Left In: 53.562 $\pm$ 17.804 χ^2 /NDF:7.7/8

Left: 49.093 $\pm$ 12.556 χ^2 /NDF: 23.3/18

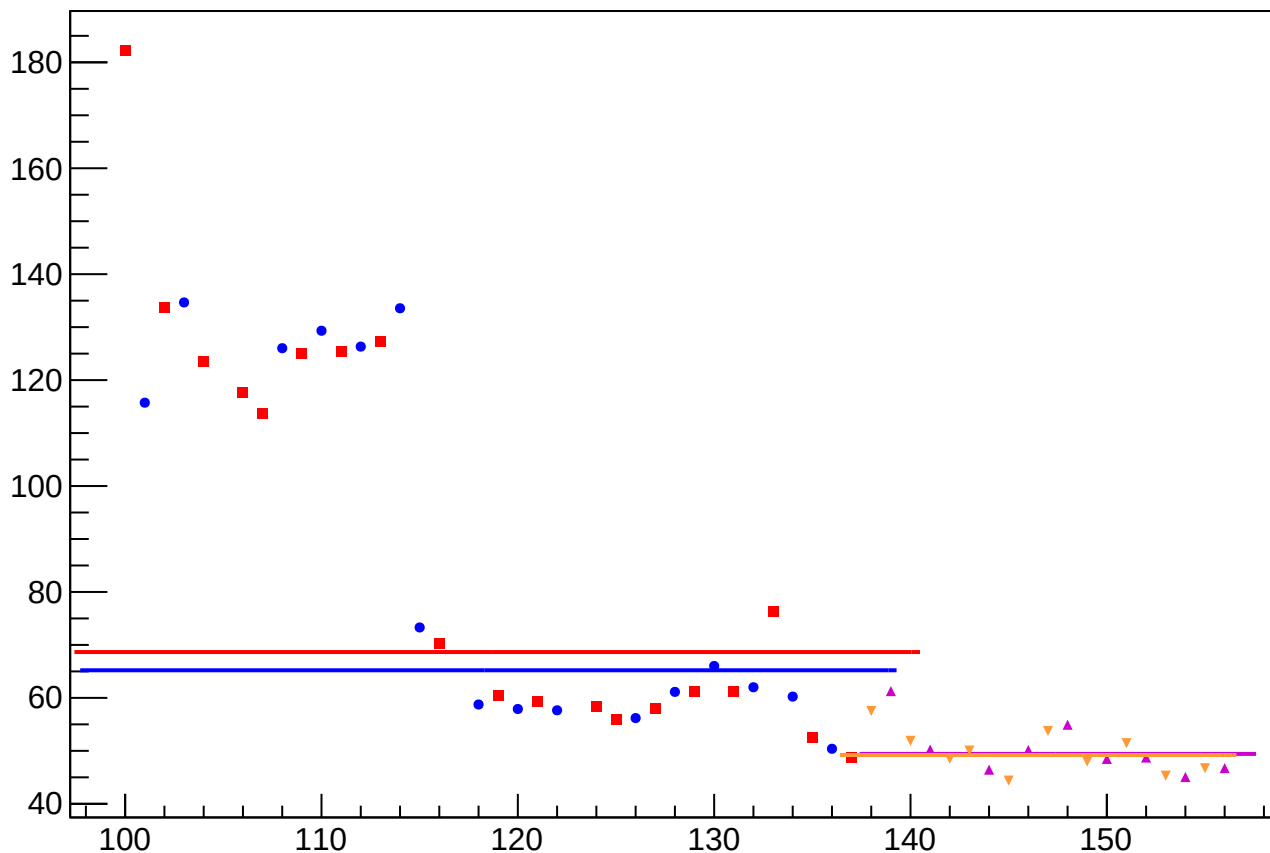
Right: 51.548 $\pm$ 18.611 χ^2 /NDF: 35.6/34

In: 50.231 $\pm$ 14.650 χ^2 /NDF:22.8/24

Out: 49.484 $\pm$ 14.791 χ^2 /NDF:36.2/28

All: 49.861 $\pm$ 10.409 χ^2 /NDF: 58.9/53

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212+/-0.018 χ^2/NDF : 1446504.6/15

Left Out: 49.214+/-0.013 χ^2/NDF : 88689.6/9

Right Out: 68.656+/-0.019 χ^2/NDF : 1640900.1/18

Left In: 49.421+/-0.013 χ^2/NDF : 110930.4/8

Left: 49.317+/-0.009 χ^2/NDF : 199756.7/18

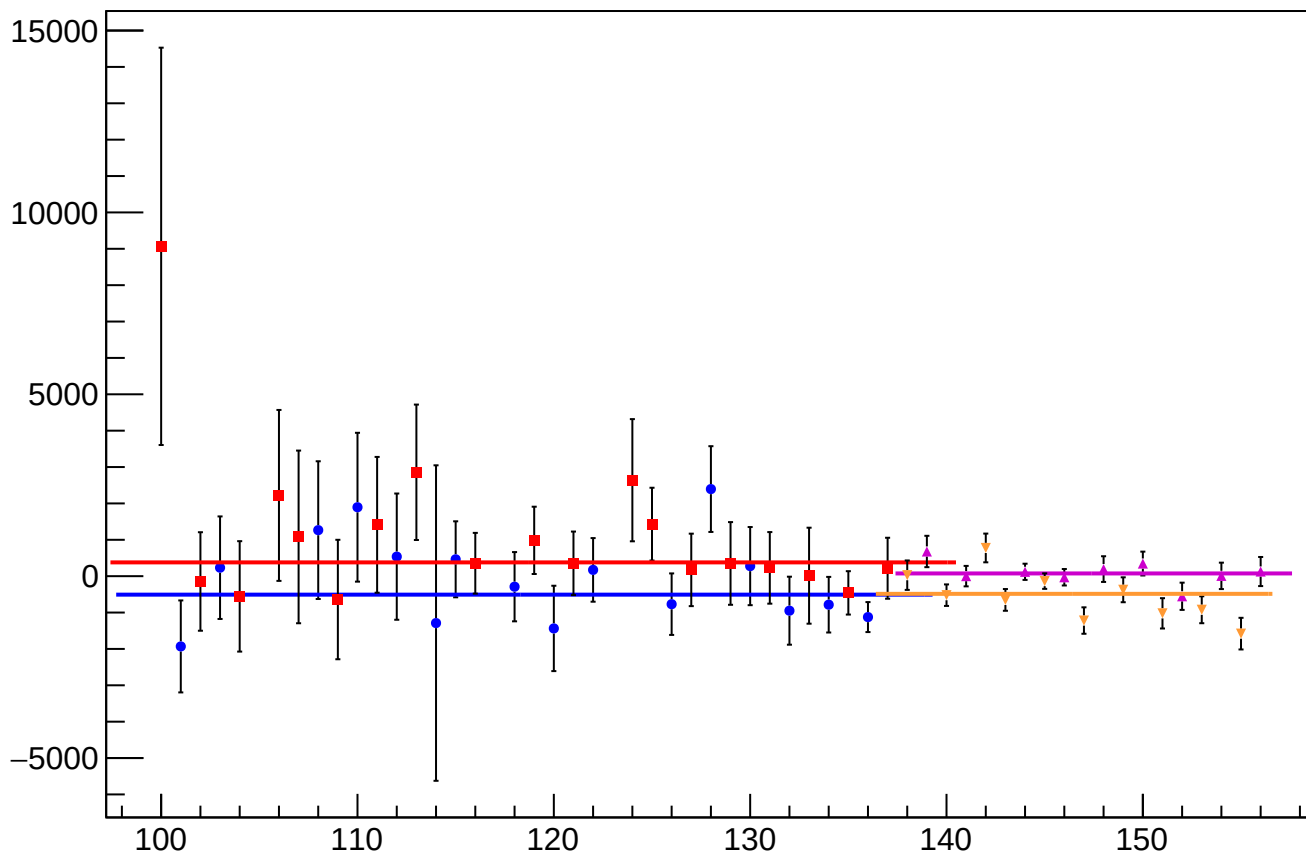
Right: 66.862+/-0.013 χ^2/NDF : 3104495.7/34

In: 54.521+/-0.010 χ^2/NDF : 2065479.4/24

Out: 55.095+/-0.010 χ^2/NDF : 2458675.2/28

All: 54.805+/-0.007 χ^2/NDF : 4525674.2/53

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: -485.945 $\pm$ 104.454 χ^2 /NDF:28.4/9

Right Out: 378.892 $\pm$ 256.407 χ^2 /NDF: 11.7/18

Left In: 75.163 $\pm$ 102.059 χ^2 /NDF:5.9/8

Left: -198.885 $\pm$ 72.998 χ^2 /NDF: 49.1/18

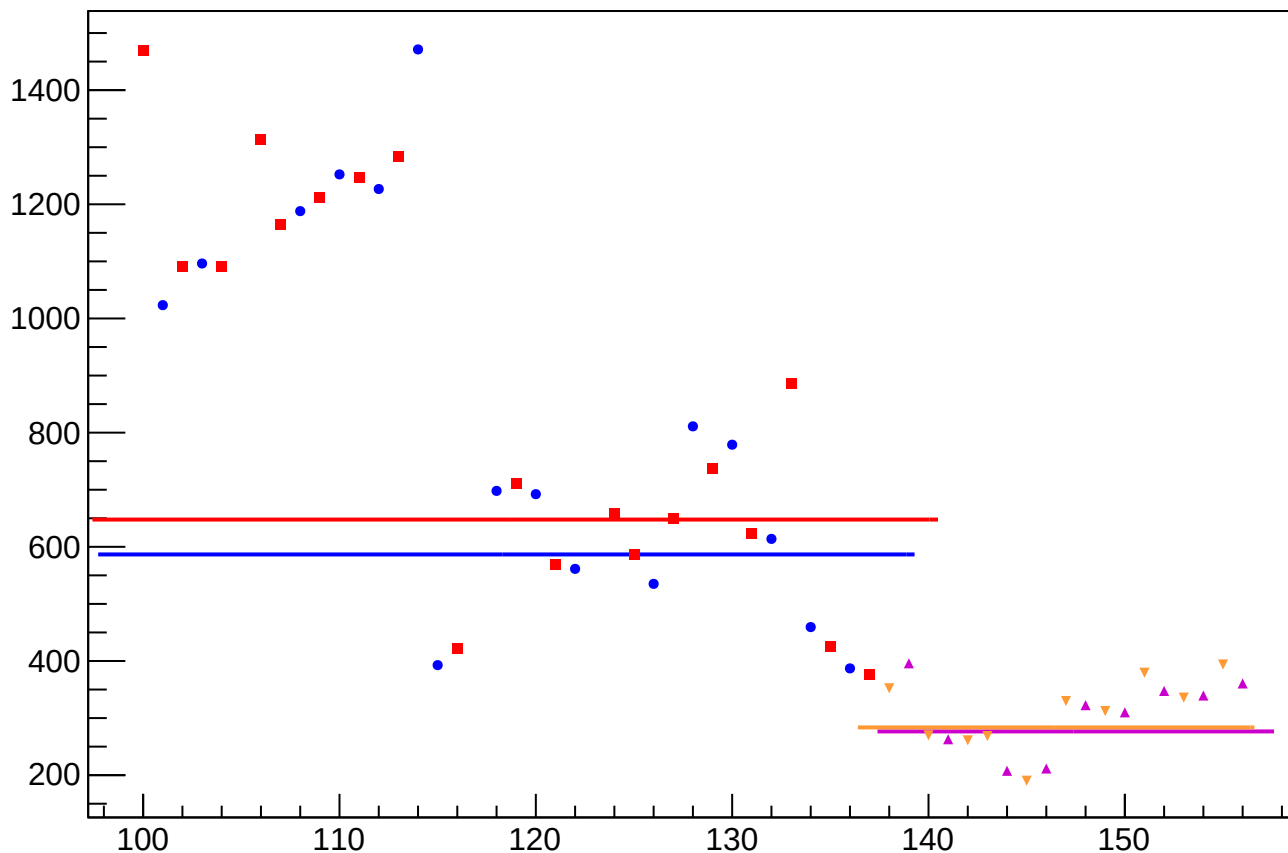
Right: -99.449 $\pm$ 174.019 χ^2 /NDF: 33.8/34

In: -16.087 $\pm$ 93.734 χ^2 /NDF:26.7/24

Out: -362.850 $\pm$ 96.735 χ^2 /NDF:49.9/28

All: -184.006 $\pm$ 67.316 χ^2 /NDF: 83.2/53

asym_sam_1526_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 586.645 ± 0.168 χ^2/NDF : 2053133.2/15

Left Out: 283.626 ± 0.074 χ^2/NDF : 778289.7/9

Right Out: 647.736 ± 0.181 χ^2/NDF : 2105638.0/18

Left In: 276.615 ± 0.072 χ^2/NDF : 789466.5/8

Left: 280.039 ± 0.052 χ^2/NDF : 1572366.2/18

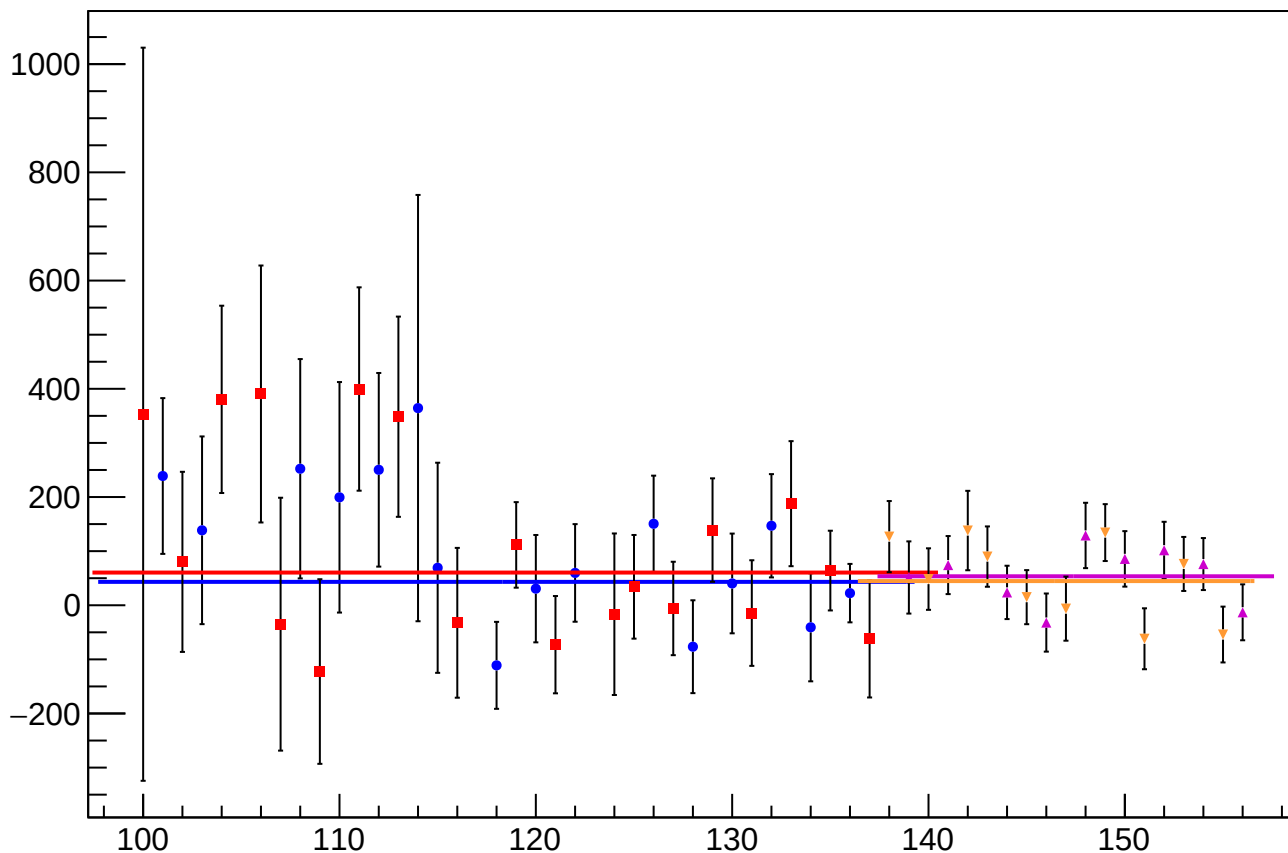
Right: 614.784 ± 0.123 χ^2/NDF : 4220010.2/34

In: 325.132 ± 0.066 χ^2/NDF : 5730839.2/24

Out: 335.451 ± 0.068 χ^2/NDF : 6342954.5/28

All: 330.129 ± 0.048 χ^2/NDF : 12085530.1/53

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: 44.675 $\pm$ 17.710 χ^2 /NDF:15.5/9

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 53.561 $\pm$ 17.804 χ^2 /NDF:7.7/8

Left: 49.094 $\pm$ 12.556 χ^2 /NDF: 23.3/18

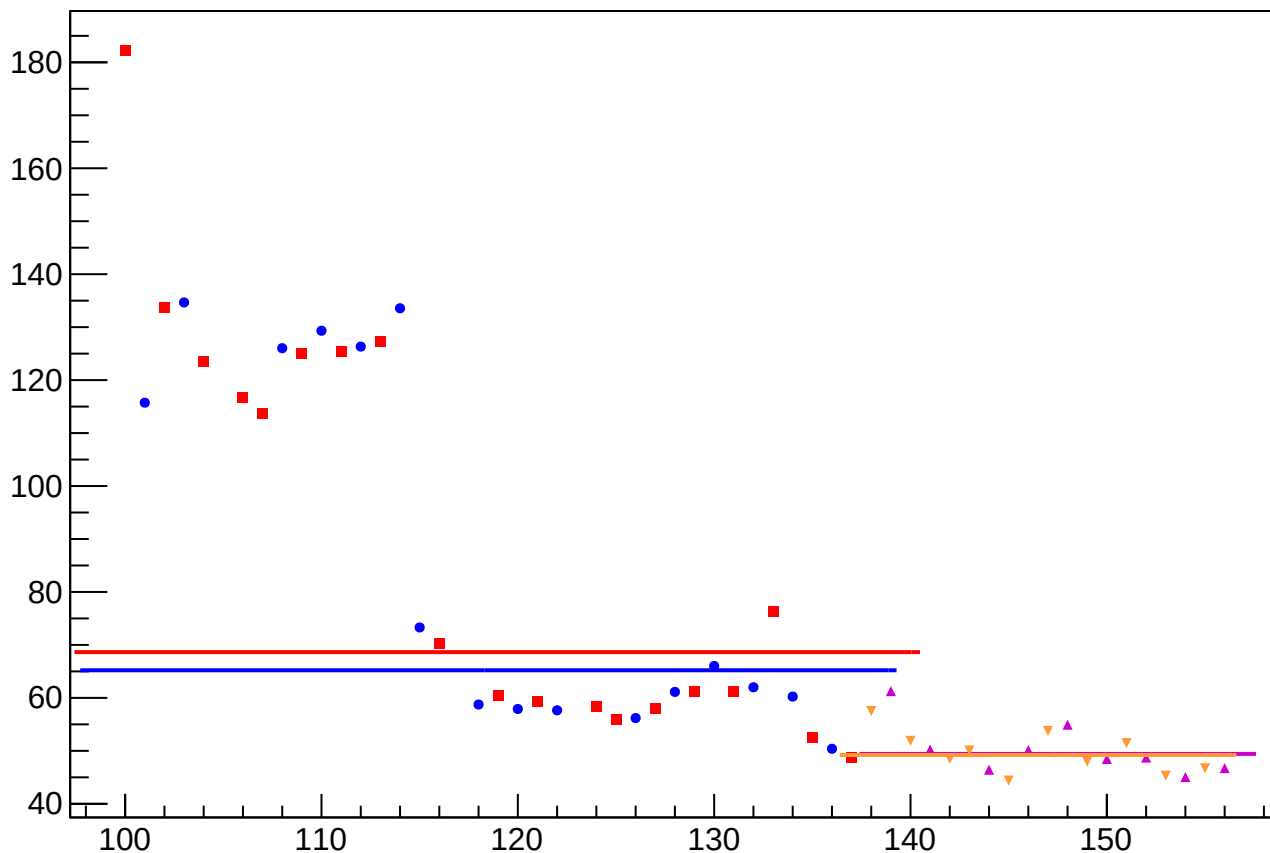
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 50.228 $\pm$ 14.650 χ^2 /NDF:22.8/24

Out: 49.441 $\pm$ 14.791 χ^2 /NDF:36.0/28

All: 49.838 $\pm$ 10.409 χ^2 /NDF: 58.8/53

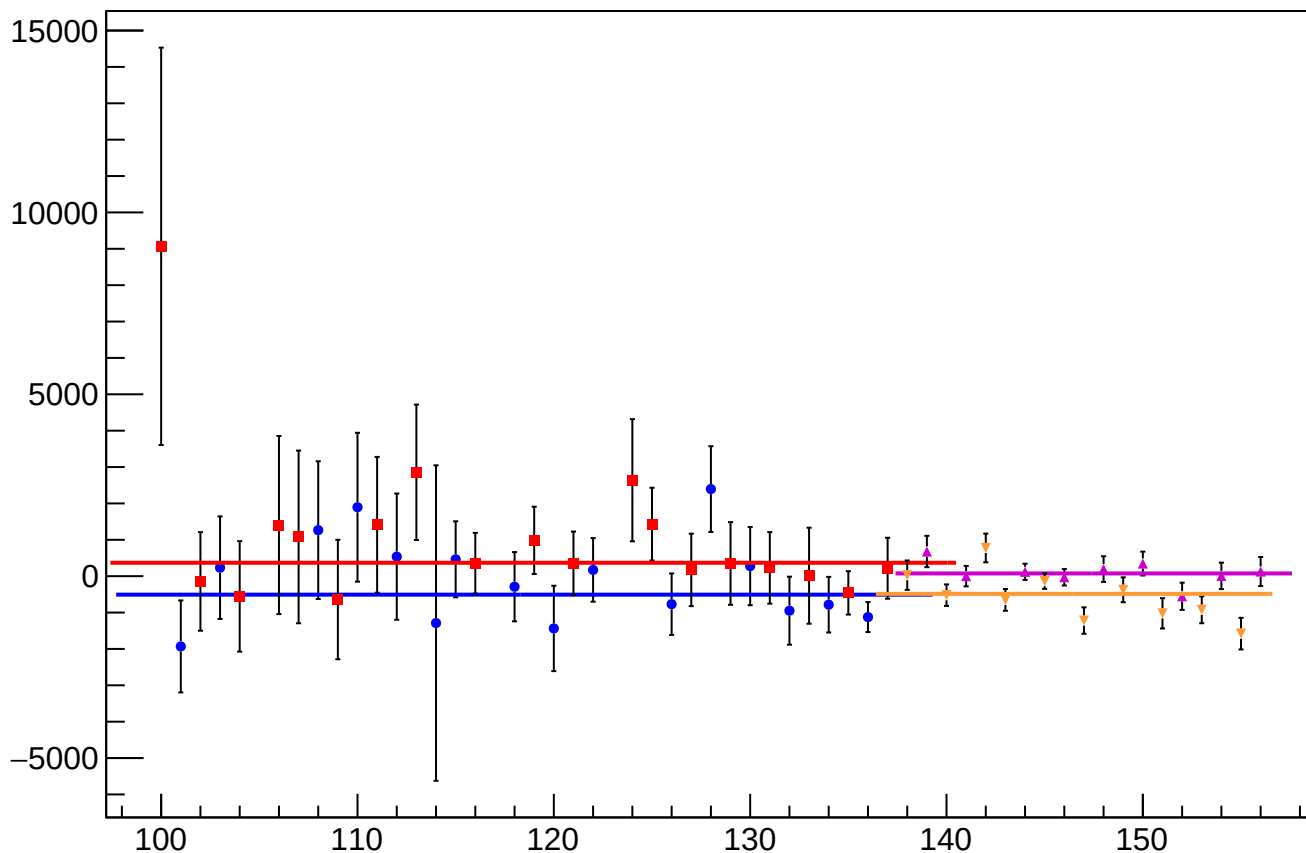
cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2/NDF : 1446506.9/15
 Left Out: 49.214 $\pm$ 0.013 χ^2/NDF :88689.6/9
 Right Out: 68.642 $\pm$ 0.019 χ^2/NDF : 1637558.1/18
 Left In: 49.421 $\pm$ 0.013 χ^2/NDF :110930.4/8

Left: 49.317 $\pm$ 0.009 χ^2/NDF : 199756.7/18
 Right: 66.855 $\pm$ 0.013 χ^2/NDF : 3101012.7/34
 In: 54.521 $\pm$ 0.010 χ^2/NDF :2065481.6/24
 Out: 55.090 $\pm$ 0.010 χ^2/NDF :2454222.7/28
 All: 54.803 $\pm$ 0.007 χ^2/NDF : 4521199.6/53

asym_sam_1526_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911 ± 236.945 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -485.940 ± 104.454 $\chi^2/\text{NDF}: 28.4/9$

Right Out: 368.334 ± 256.534 $\chi^2/\text{NDF}: 11.3/18$

Left In: 75.163 ± 102.059 $\chi^2/\text{NDF}: 5.9/8$

Left: -198.883 ± 72.998 $\chi^2/\text{NDF}: 49.1/18$

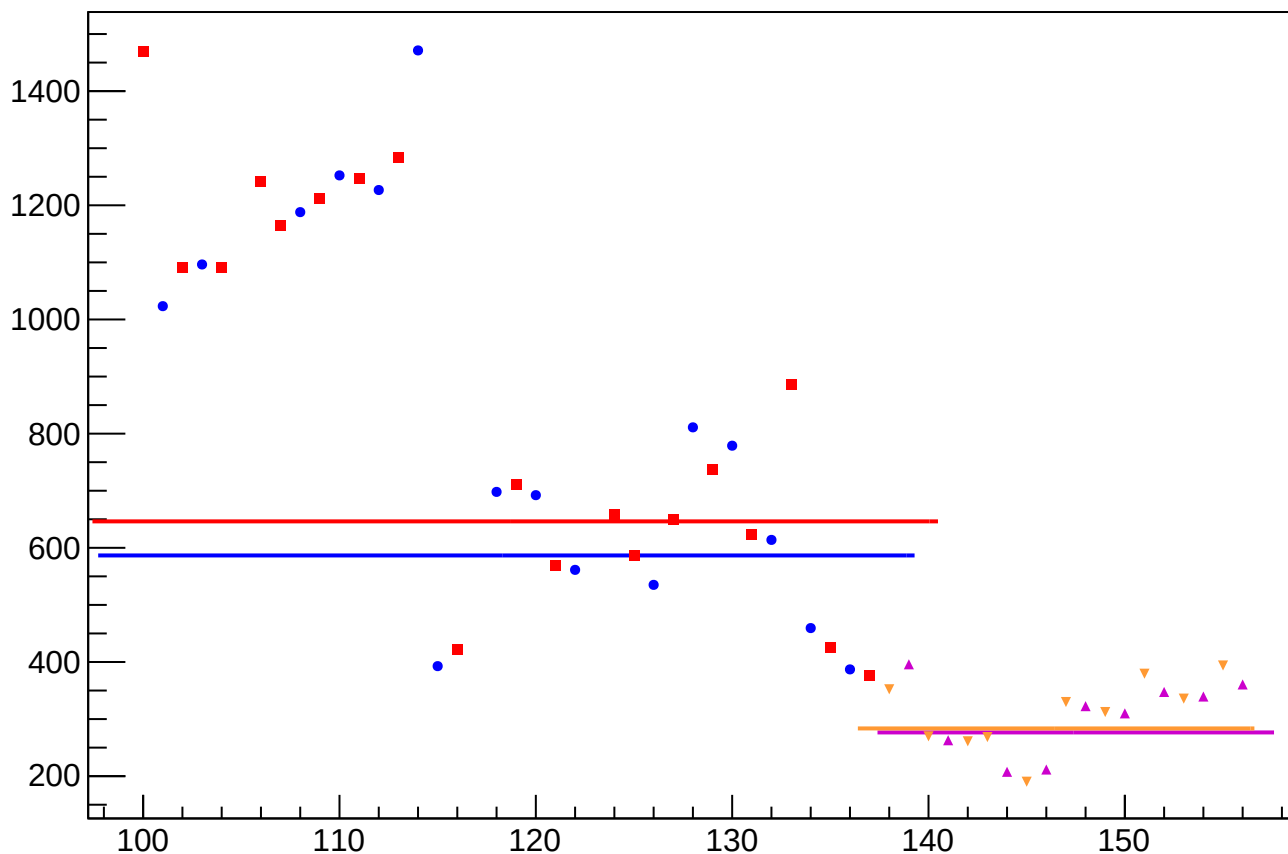
Right: -104.517 ± 174.059 $\chi^2/\text{NDF}: 33.2/34$

In: -16.084 ± 93.734 $\chi^2/\text{NDF}: 26.7/24$

Out: -364.452 ± 96.742 $\chi^2/\text{NDF}: 49.2/28$

All: -184.768 ± 67.318 $\chi^2/\text{NDF}: 82.6/53$

asym_sam_1526_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 586.645 ± 0.168 $\chi^2/\text{NDF}: 2053169.7/15$

Left Out: 283.626 ± 0.074 $\chi^2/\text{NDF}: 778293.4/9$

Right Out: 646.328 ± 0.181 $\chi^2/\text{NDF}: 2063185.3/18$

Left In: 276.615 ± 0.072 $\chi^2/\text{NDF}: 789461.7/8$

Left: 280.039 ± 0.052 $\chi^2/\text{NDF}: 1572364.6/18$

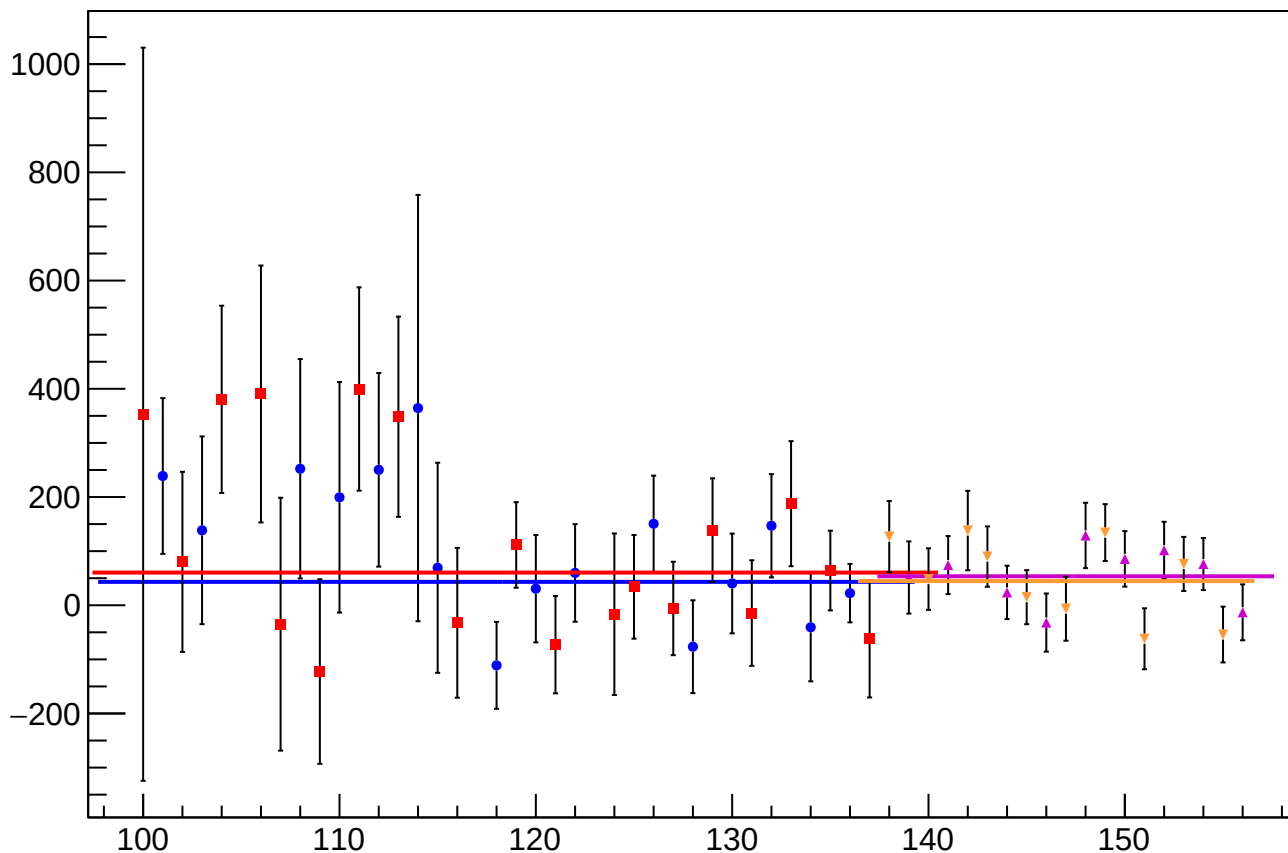
Right: 614.121 ± 0.123 $\chi^2/\text{NDF}: 4174772.7/34$

In: 325.132 ± 0.066 $\chi^2/\text{NDF}: 5730856.6/24$

Out: 335.206 ± 0.068 $\chi^2/\text{NDF}: 6270896.6/28$

All: 330.010 ± 0.048 $\chi^2/\text{NDF}: 12012939.4/53$

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: 44.675 $\pm$ 17.710 χ^2 /NDF:15.5/9

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 53.561 $\pm$ 17.804 χ^2 /NDF:7.7/8

Left: 49.094 $\pm$ 12.556 χ^2 /NDF: 23.3/18

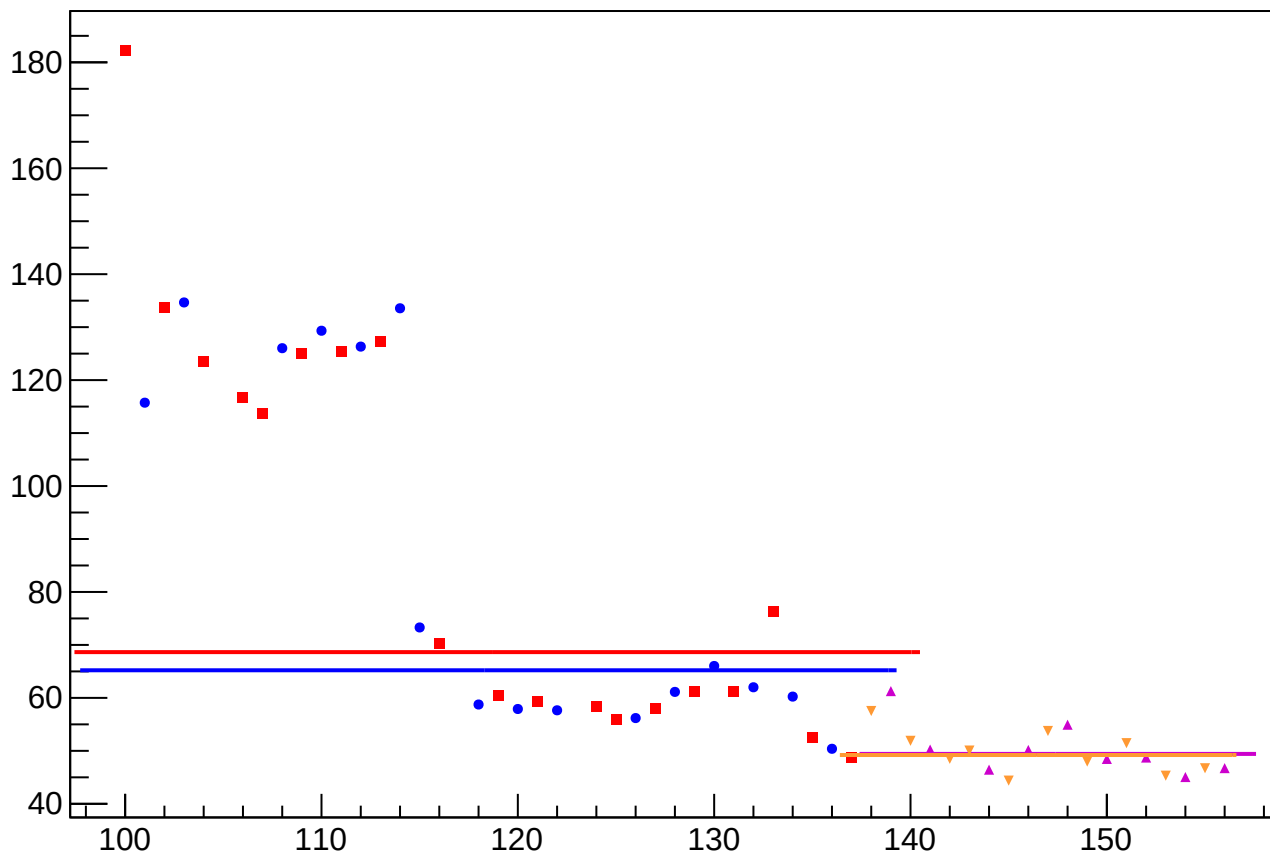
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 50.228 $\pm$ 14.650 χ^2 /NDF:22.8/24

Out: 49.441 $\pm$ 14.791 χ^2 /NDF:36.0/28

All: 49.838 $\pm$ 10.409 χ^2 /NDF: 58.8/53

eigen_cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212+/-0.018 χ^2/NDF : 1446506.9/15

Left Out: 49.214+/-0.013 χ^2/NDF : 88689.6/9

Right Out: 68.642+/-0.019 χ^2/NDF : 1637558.1/18

Left In: 49.421+/-0.013 χ^2/NDF : 110930.4/8

Left: 49.317+/-0.009 χ^2/NDF : 199756.7/18

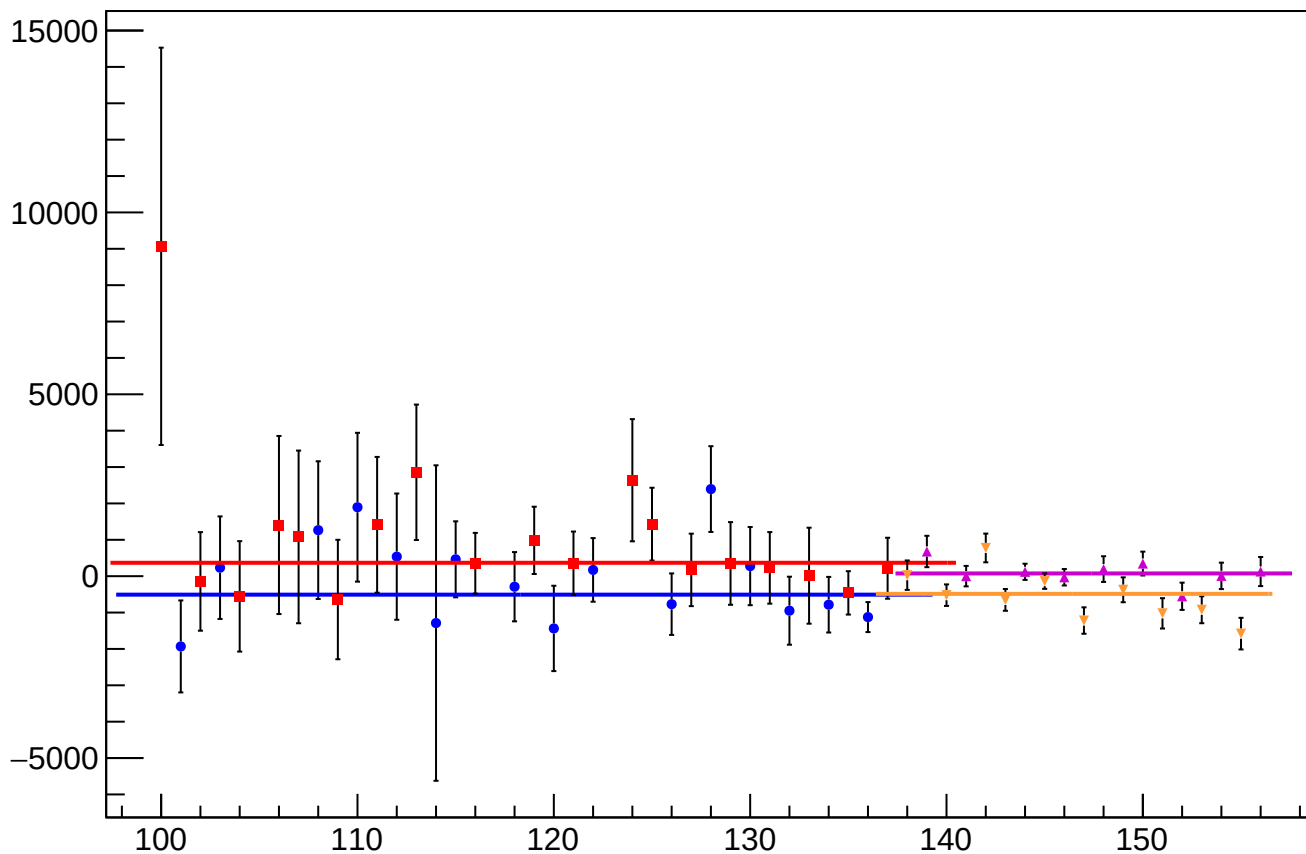
Right: 66.855+/-0.013 χ^2/NDF : 3101012.7/34

In: 54.521+/-0.010 χ^2/NDF : 2065481.6/24

Out: 55.090+/-0.010 χ^2/NDF : 2454222.7/28

All: 54.803+/-0.007 χ^2/NDF : 4521199.6/53

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911 ± 236.945 χ^2/NDF : 15.6/15

Left Out: -485.940 ± 104.454 χ^2/NDF : 28.4/9

Right Out: 368.334 ± 256.534 χ^2/NDF : 11.3/18

Left In: 75.163 ± 102.059 χ^2/NDF : 5.9/8

Left: -198.883 ± 72.998 χ^2/NDF : 49.1/18

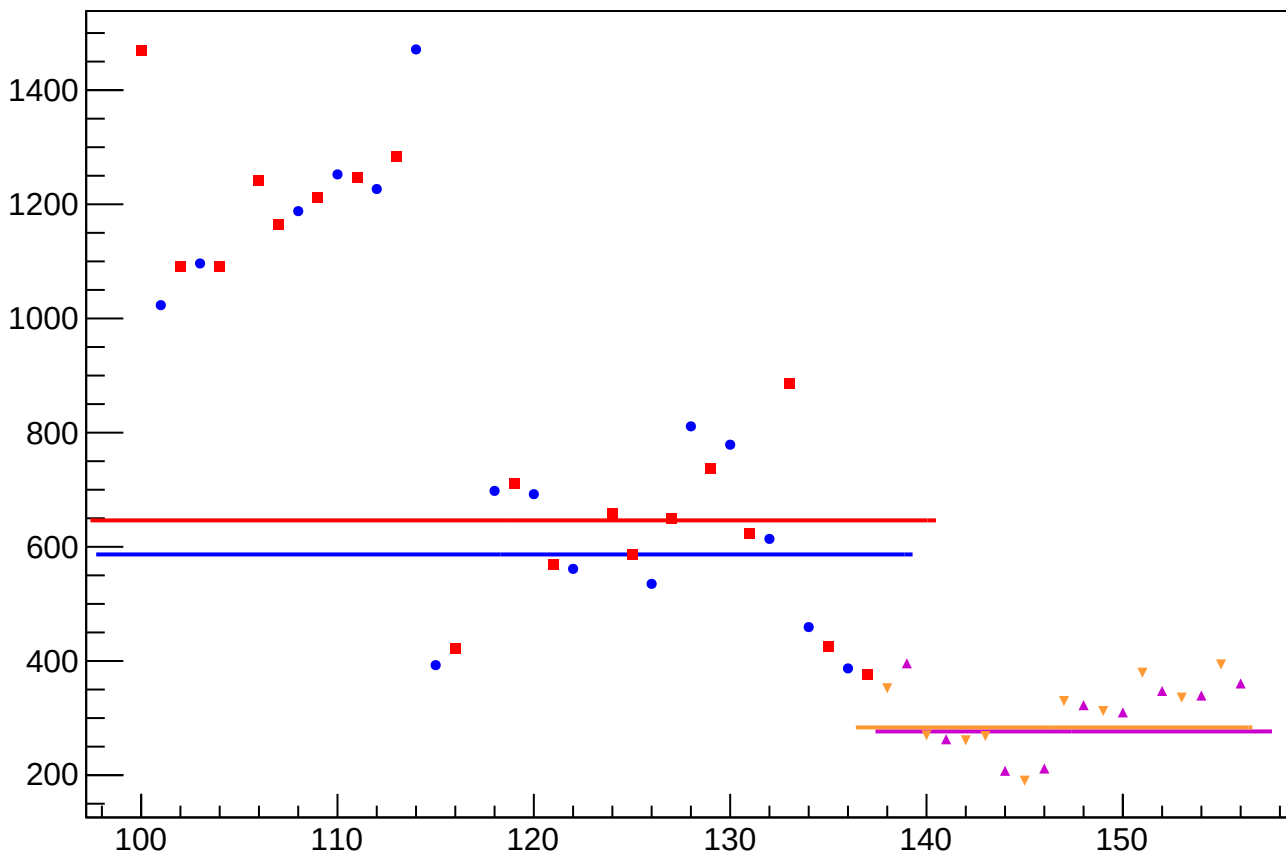
Right: -104.517 ± 174.059 χ^2/NDF : 33.2/34

In: -16.084 ± 93.734 χ^2/NDF : 26.7/24

Out: -364.452 ± 96.742 χ^2/NDF : 49.2/28

All: -184.768 ± 67.318 χ^2/NDF : 82.6/53

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: 283.626 $\pm$ 0.074 χ^2 /NDF: 778293.4/9

Right Out: 646.328 $\pm$ 0.181 χ^2 /NDF: 2063185.3/18

Left In: 276.615 $\pm$ 0.072 χ^2 /NDF: 789461.7/8

Left: 280.039 $\pm$ 0.052 χ^2 /NDF: 1572364.6/18

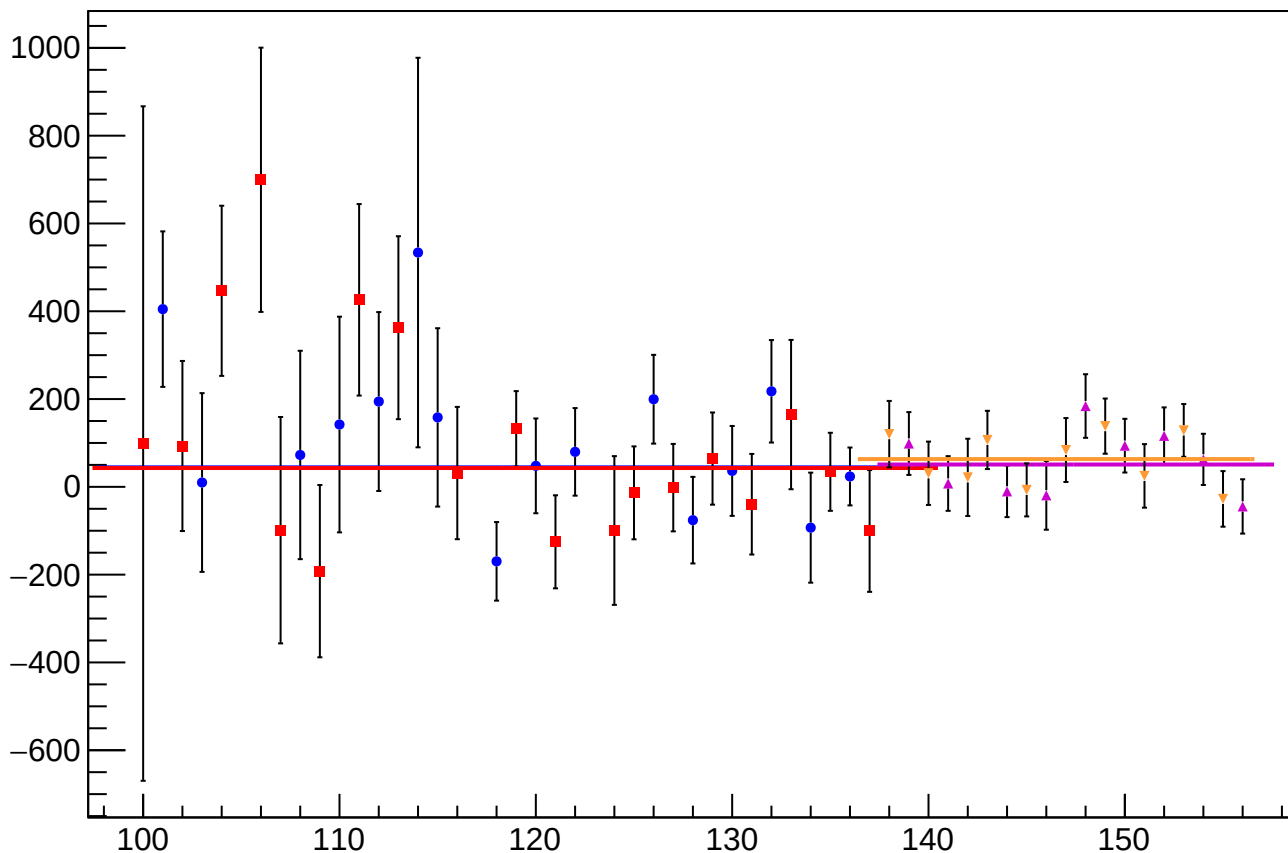
Right: 614.121 $\pm$ 0.123 χ^2 /NDF: 4174772.7/34

In: 325.132 $\pm$ 0.066 χ^2 /NDF: 5730856.6/24

Out: 335.206 $\pm$ 0.068 χ^2 /NDF: 6270896.6/28

All: 330.010 $\pm$ 0.048 χ^2 /NDF: 12012939.4/53

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: 63.265 $\pm$ 21.533 χ^2 /NDF: 7.8/9

Right Out: 42.901 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 50.877 $\pm$ 21.528 χ^2 /NDF: 10.1/8

Left: 57.070 $\pm$ 15.224 χ^2 /NDF: 18.1/18

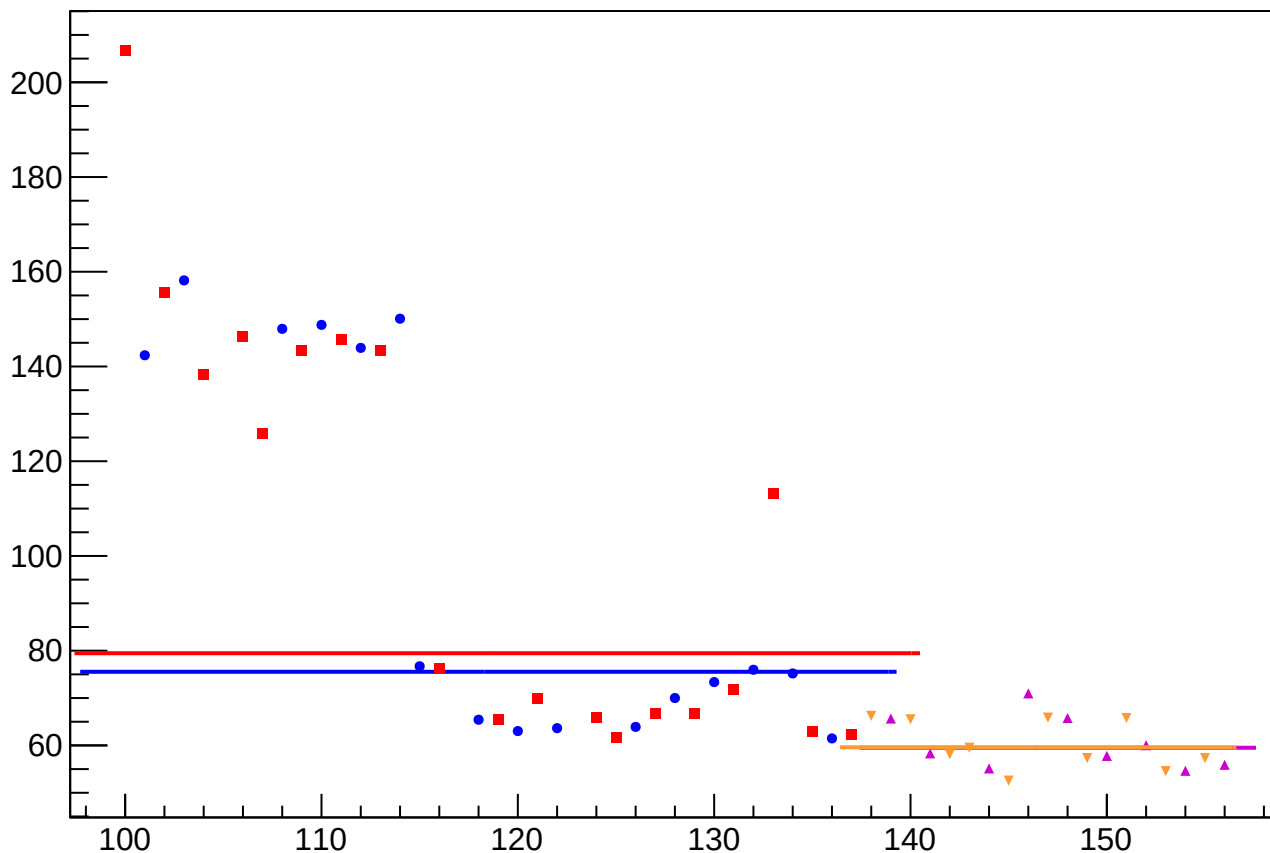
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 48.662 $\pm$ 17.472 χ^2 /NDF: 29.8/24

Out: 56.708 $\pm$ 17.731 χ^2 /NDF: 31.4/28

All: 52.626 $\pm$ 12.445 χ^2 /NDF: 61.2/53

dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544 $\pm$ 0.021 χ^2/NDF : 1465550.9/15

Left Out: 59.595 $\pm$ 0.015 χ^2/NDF : 105193.1/9

Right Out: 79.465 $\pm$ 0.022 χ^2/NDF : 1683634.3/18

Left In: 59.505 $\pm$ 0.015 χ^2/NDF : 106965.9/8

Left: 59.550 $\pm$ 0.011 χ^2/NDF : 212176.4/18

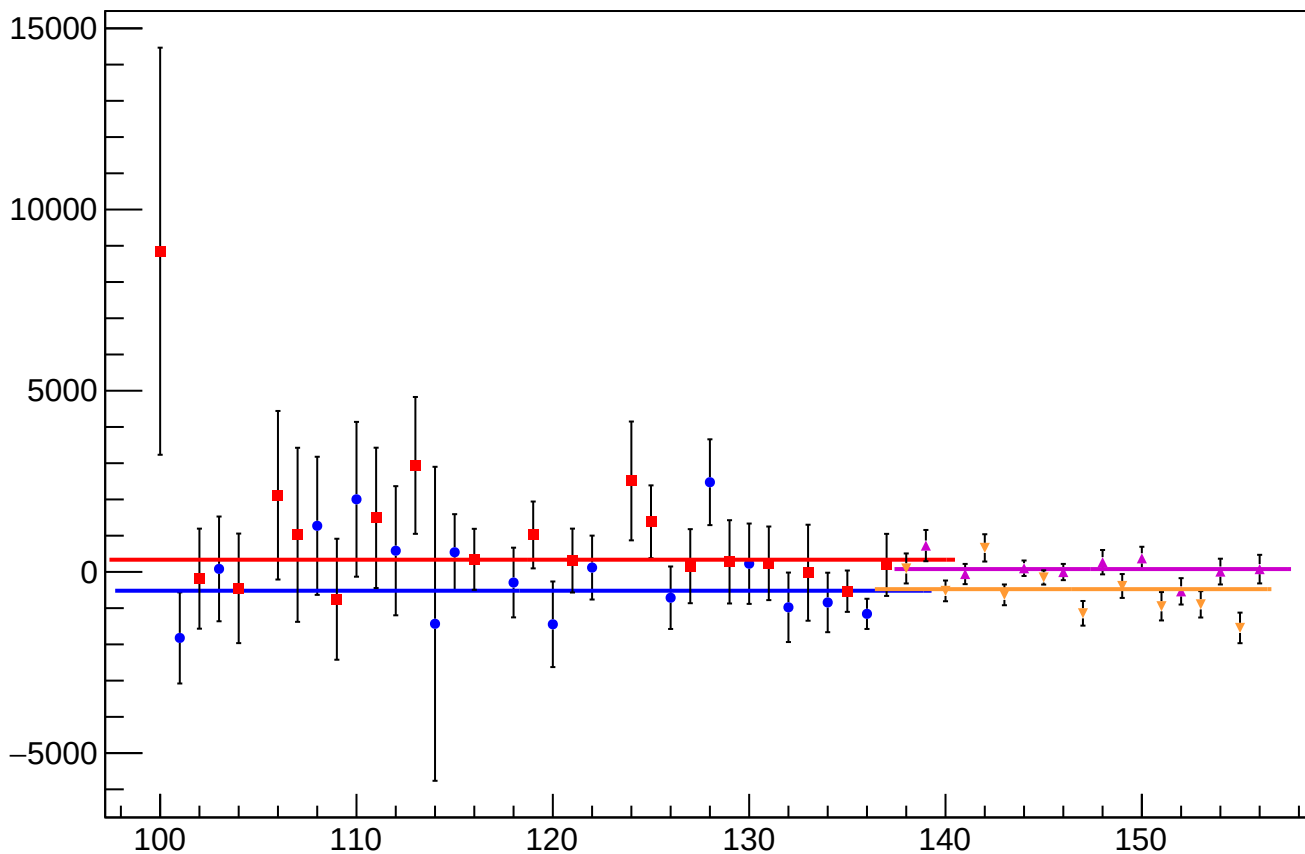
Right: 77.419 $\pm$ 0.015 χ^2/NDF : 3165620.3/34

In: 64.979 $\pm$ 0.012 χ^2/NDF : 1951393.8/24

Out: 65.993 $\pm$ 0.013 χ^2/NDF : 2337151.0/28

All: 65.479 $\pm$ 0.009 χ^2/NDF : 4291860.9/53

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -519.250 $\pm$ 241.317 χ^2 /NDF: 15.8/15

Left Out: -475.497 $\pm$ 99.606 χ^2 /NDF:27.2/9

Right Out: 336.731 $\pm$ 256.618 χ^2 /NDF: 11.9/18

Left In: 78.429 $\pm$ 99.669 χ^2 /NDF:6.7/8

Left: -198.708 $\pm$ 70.454 χ^2 /NDF: 49.4/18

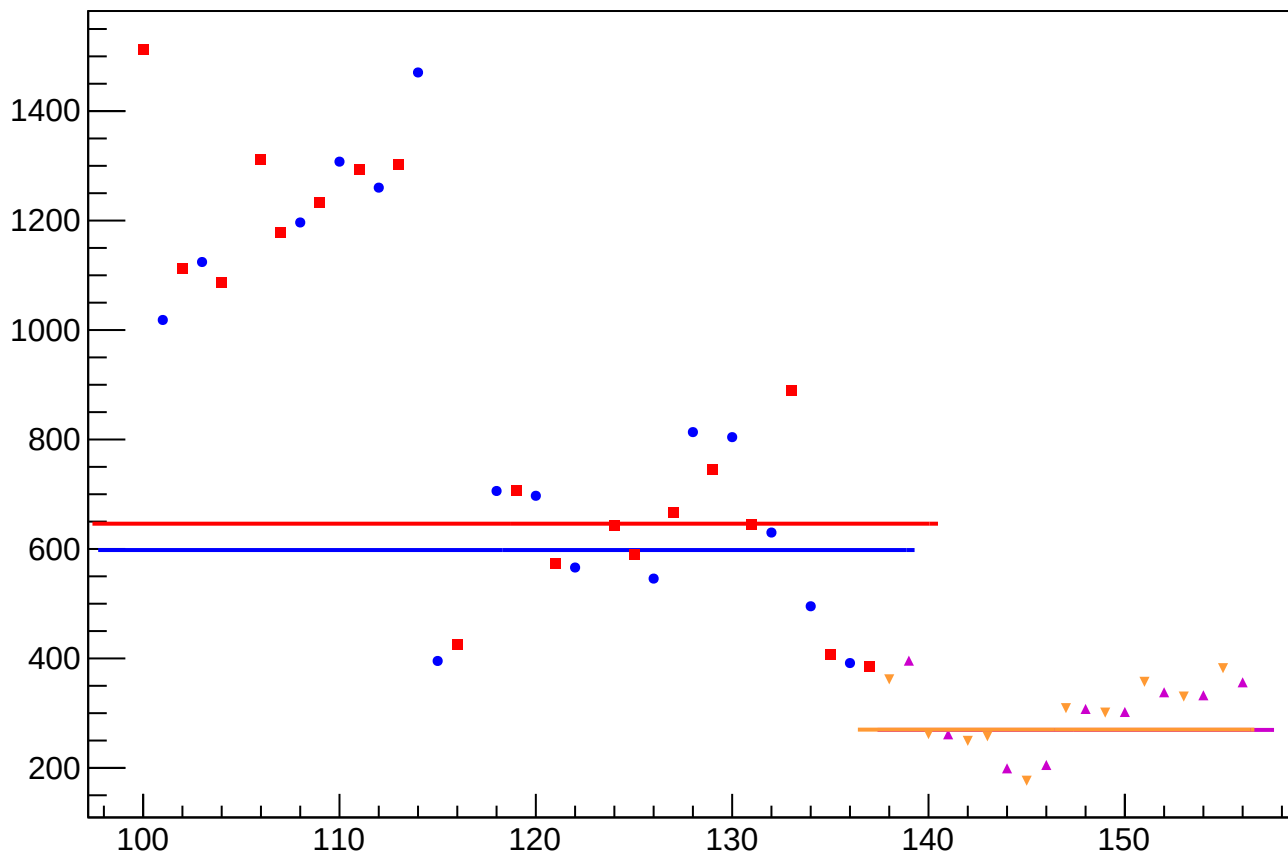
Right: -117.538 $\pm$ 175.797 χ^2 /NDF: 33.6/34

In: -8.670 $\pm$ 92.121 χ^2 /NDF:27.8/24

Out: -369.148 $\pm$ 92.857 χ^2 /NDF:47.8/28

All: -187.475 $\pm$ 65.398 χ^2 /NDF: 83.2/53

asym_sam_1526_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 598.044 $\pm$ 0.171 χ^2 /NDF: 2047825.1/15

Left Out: 269.943 $\pm$ 0.070 χ^2 /NDF: 902623.7/9

Right Out: 646.190 $\pm$ 0.181 χ^2 /NDF: 2205437.4/18

Left In: 269.411 $\pm$ 0.070 χ^2 /NDF: 833028.1/8

Left: 269.677 $\pm$ 0.050 χ^2 /NDF: 1735680.2/18

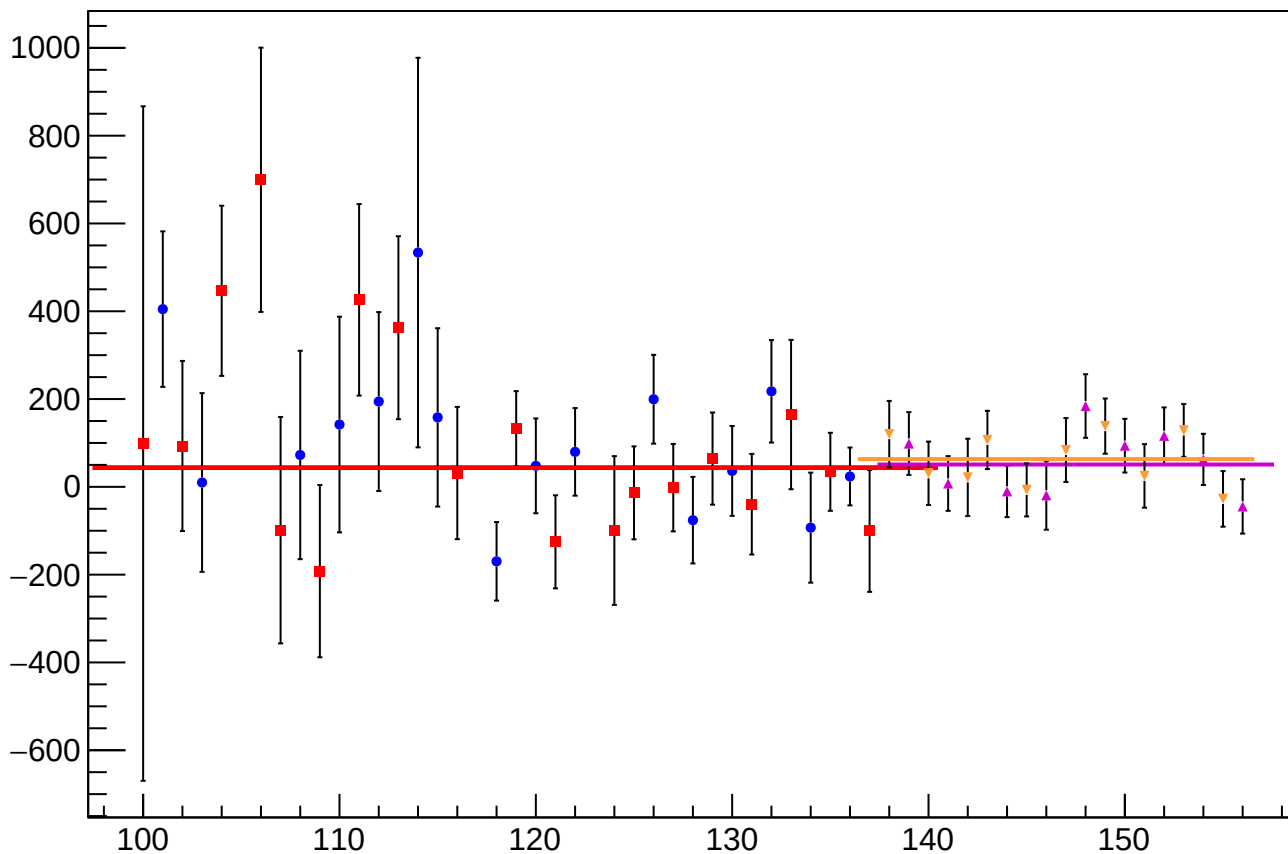
Right: 620.639 $\pm$ 0.124 χ^2 /NDF: 4290624.3/34

In: 317.302 $\pm$ 0.065 χ^2 /NDF: 6049506.7/24

Out: 319.206 $\pm$ 0.066 χ^2 /NDF: 6844485.8/28

All: 318.247 $\pm$ 0.046 χ^2 /NDF: 12894416.5/53

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: 63.265 $\pm$ 21.533 χ^2 /NDF: 7.8/9

Right Out: 42.900 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 50.877 $\pm$ 21.528 χ^2 /NDF: 10.1/8

Left: 57.069 $\pm$ 15.225 χ^2 /NDF: 18.1/18

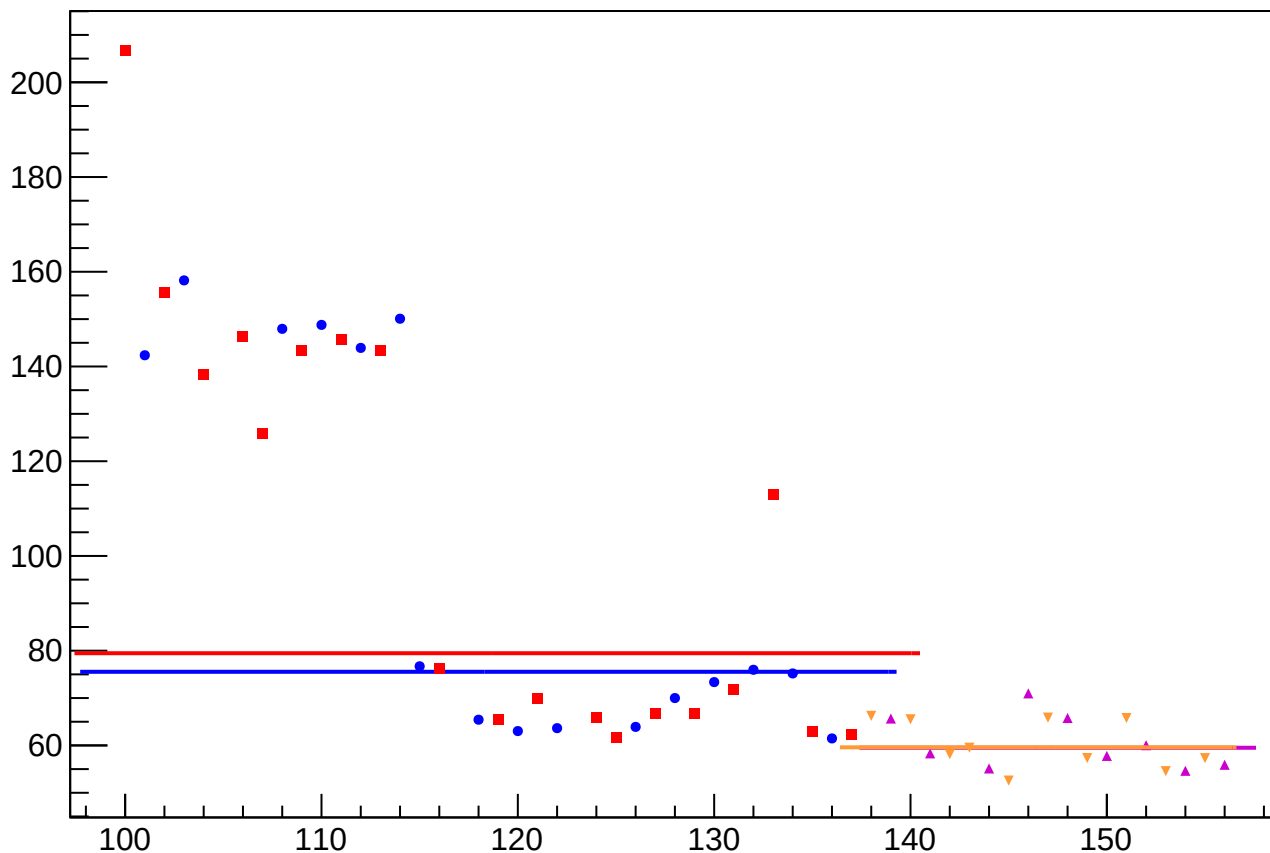
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 48.662 $\pm$ 17.472 χ^2 /NDF: 29.8/24

Out: 56.708 $\pm$ 17.731 χ^2 /NDF: 31.4/28

All: 52.626 $\pm$ 12.445 χ^2 /NDF: 61.2/53

eigen_dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544 $\pm$ 0.021 χ^2 /NDF: 1465535.8/15

Left Out: 59.595 $\pm$ 0.015 χ^2 /NDF:105192.2/9

Right Out: 79.465 $\pm$ 0.022 χ^2 /NDF: 1683627.3/18

Left In: 59.505 $\pm$ 0.015 χ^2 /NDF:106967.4/8

Left: 59.550 $\pm$ 0.011 χ^2 /NDF: 212177.0/18

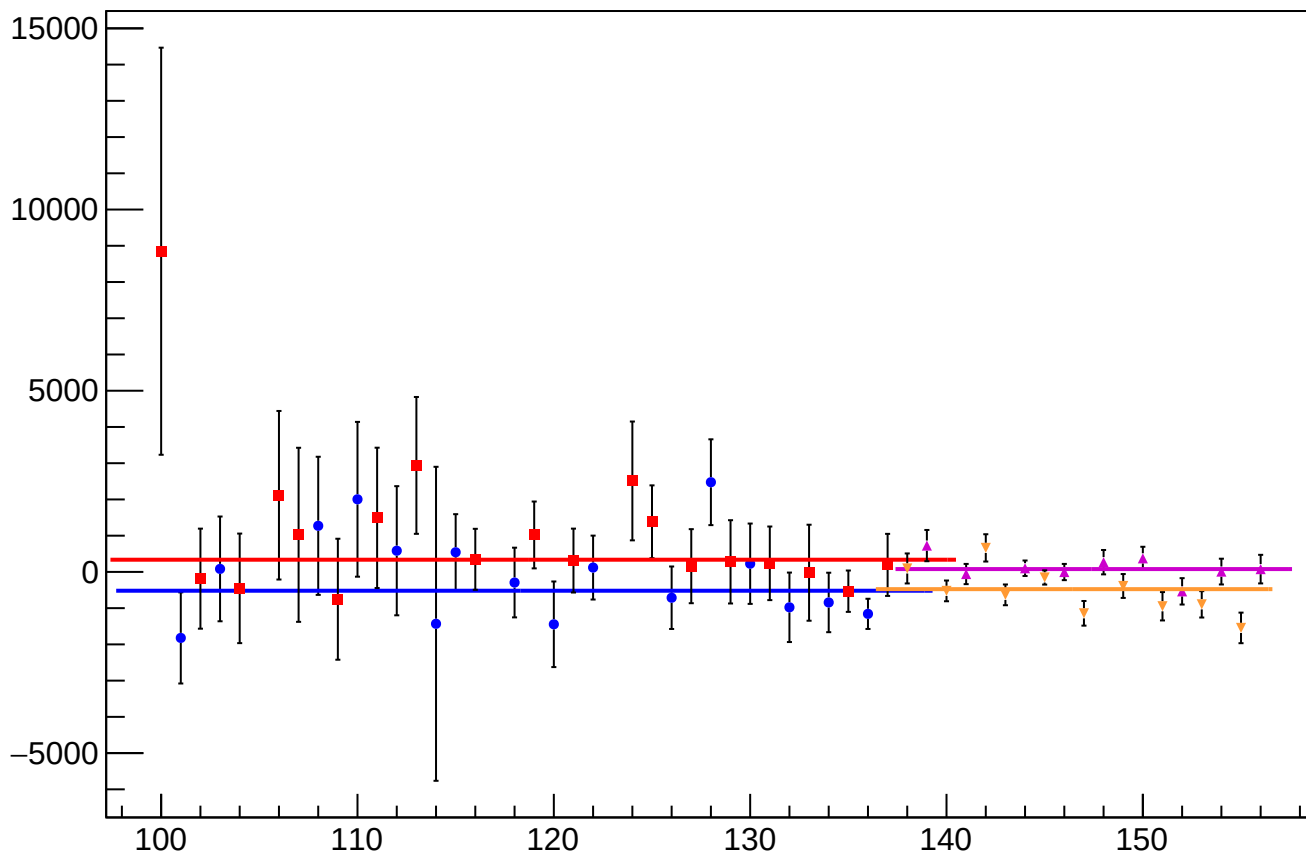
Right: 77.419 $\pm$ 0.015 χ^2 /NDF: 3165598.5/34

In: 64.979 $\pm$ 0.012 χ^2 /NDF:1951359.1/24

Out: 65.993 $\pm$ 0.013 χ^2 /NDF:2337119.1/28

All: 65.479 $\pm$ 0.009 χ^2 /NDF: 4291794.5/53

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: -475.497 $\pm$ 99.606 χ^2 /NDF:27.2/9

Right Out: 336.731 $\pm$ 256.617 χ^2 /NDF: 11.9/18

Left In: 78.429 $\pm$ 99.669 χ^2 /NDF:6.7/8

Left: -198.708 $\pm$ 70.454 χ^2 /NDF: 49.4/18

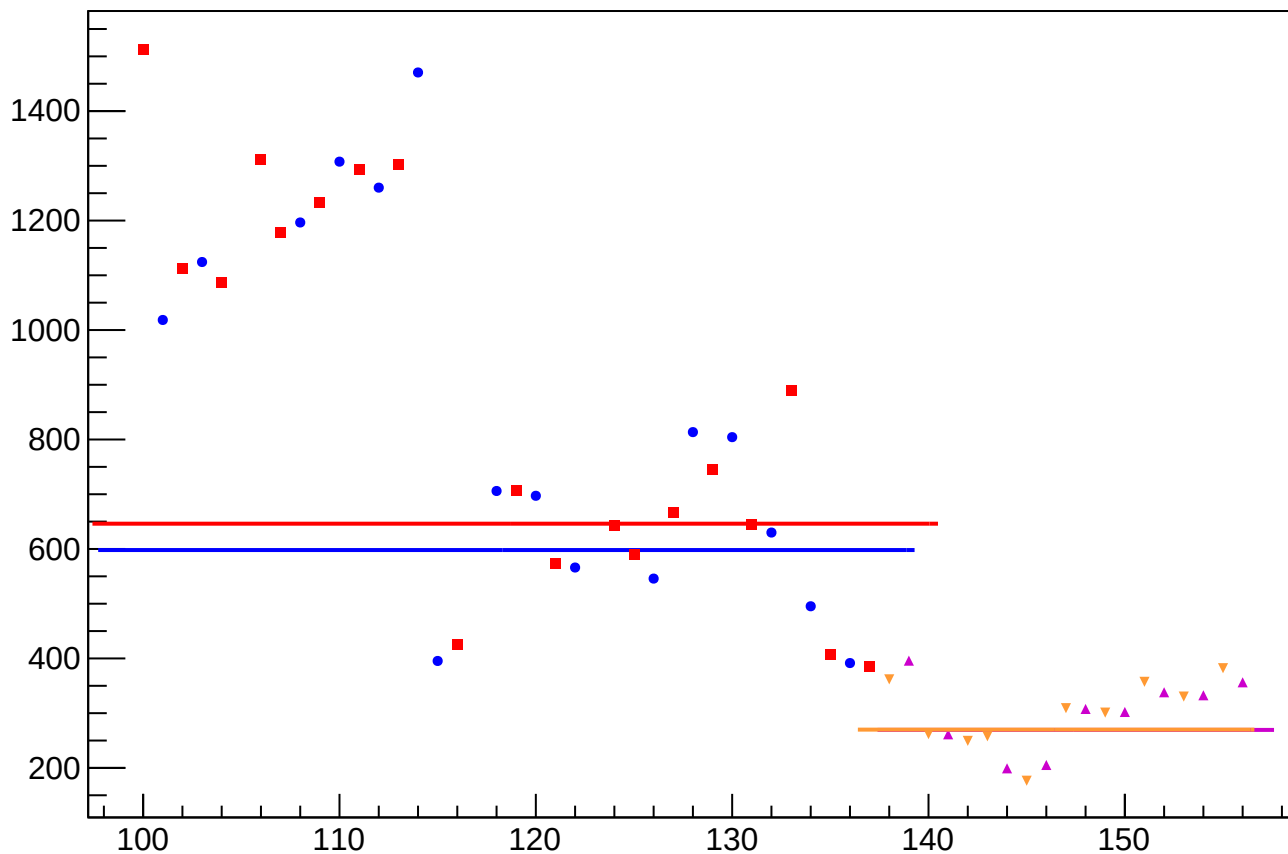
Right: -117.537 $\pm$ 175.797 χ^2 /NDF: 33.6/34

In: -8.669 $\pm$ 92.121 χ^2 /NDF:27.8/24

Out: -369.149 $\pm$ 92.857 χ^2 /NDF:47.8/28

All: -187.475 $\pm$ 65.398 χ^2 /NDF: 83.2/53

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: 269.942 $\pm$ 0.070 χ^2 /NDF: 902629.8/9

Right Out: 646.190 $\pm$ 0.181 χ^2 /NDF: 2205421.4/18

Left In: 269.411 $\pm$ 0.070 χ^2 /NDF: 833027.3/8

Left: 269.677 $\pm$ 0.050 χ^2 /NDF: 1735685.5/18

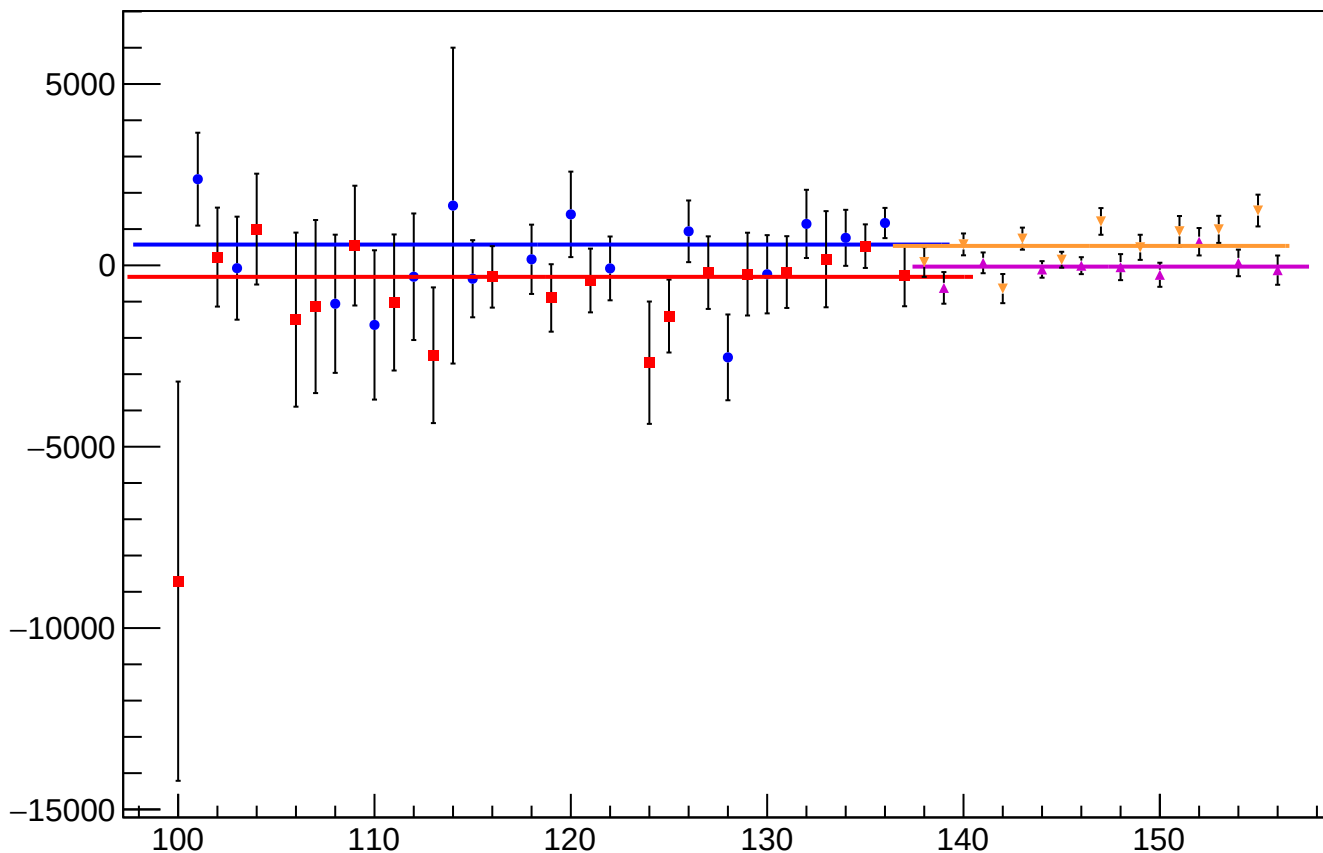
Right: 620.638 $\pm$ 0.124 χ^2 /NDF: 4290589.9/34

In: 317.302 $\pm$ 0.065 χ^2 /NDF: 6049491.2/24

Out: 319.206 $\pm$ 0.066 χ^2 /NDF: 6844487.3/28

All: 318.246 $\pm$ 0.046 χ^2 /NDF: 12894402.4/53

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 573.374 $\pm$ 238.921 χ^2/NDF : 16.6/15

Left Out: 536.594 $\pm$ 106.258 χ^2/NDF : 24.0/9

Right Out: -316.830 $\pm$ 258.239 χ^2/NDF : 11.0/18

Left In: -34.580 $\pm$ 104.042 χ^2/NDF : 6.0/8

Left: 244.988 $\pm$ 74.340 χ^2/NDF : 44.7/18

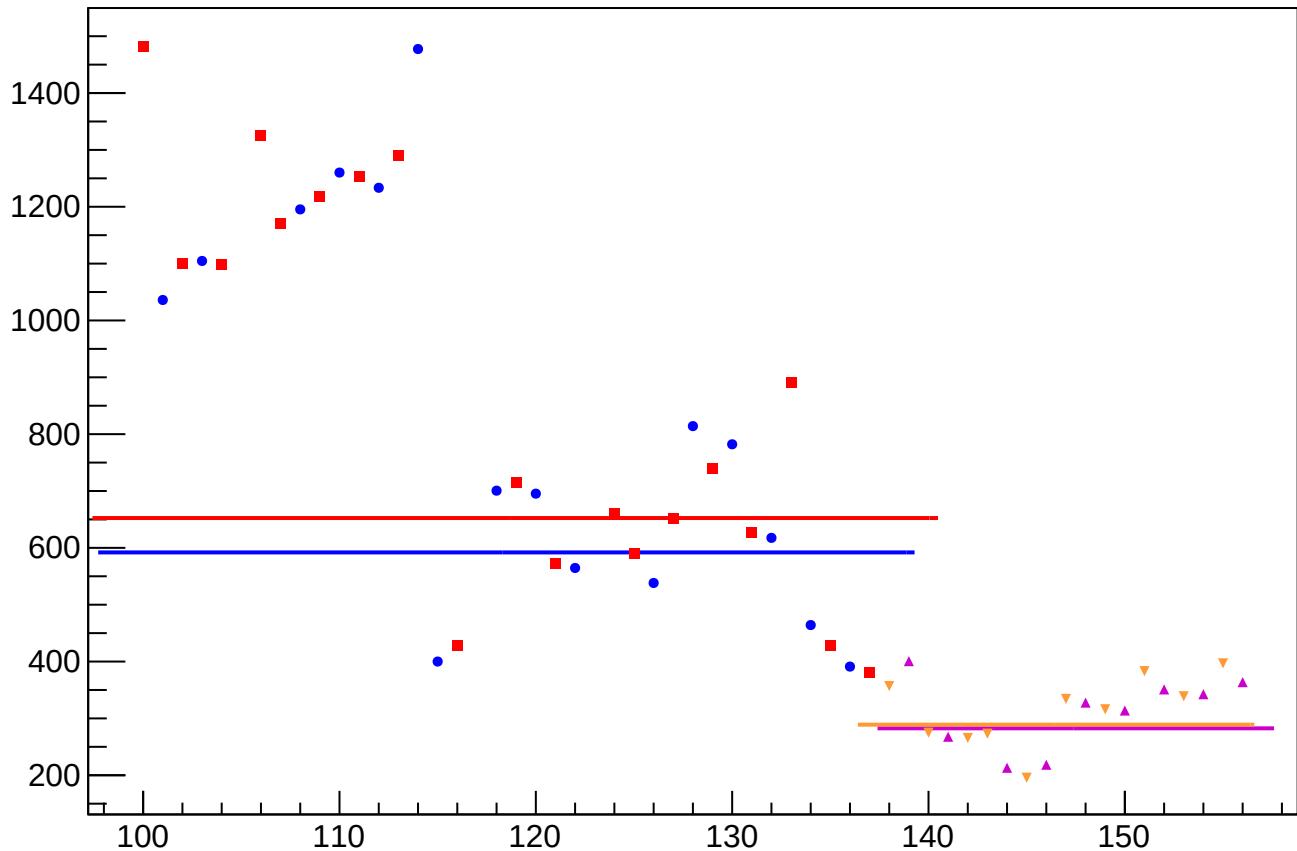
Right: 162.809 $\pm$ 175.375 χ^2/NDF : 34.0/34

In: 62.329 $\pm$ 95.390 χ^2/NDF : 28.0/24

Out: 413.022 $\pm$ 98.265 χ^2/NDF : 44.3/28

All: 232.470 $\pm$ 68.445 χ^2/NDF : 78.9/53

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 591.974+/-0.169 χ^2/NDF : 2035700.6/15

Left Out: 288.971+/-0.075 χ^2/NDF : 734253.9/9

Right Out: 652.459+/-0.183 χ^2/NDF : 2089983.3/18

Left In: 282.527+/-0.074 χ^2/NDF : 736893.6/8

Left: 285.681+/-0.053 χ^2/NDF : 1474902.3/18

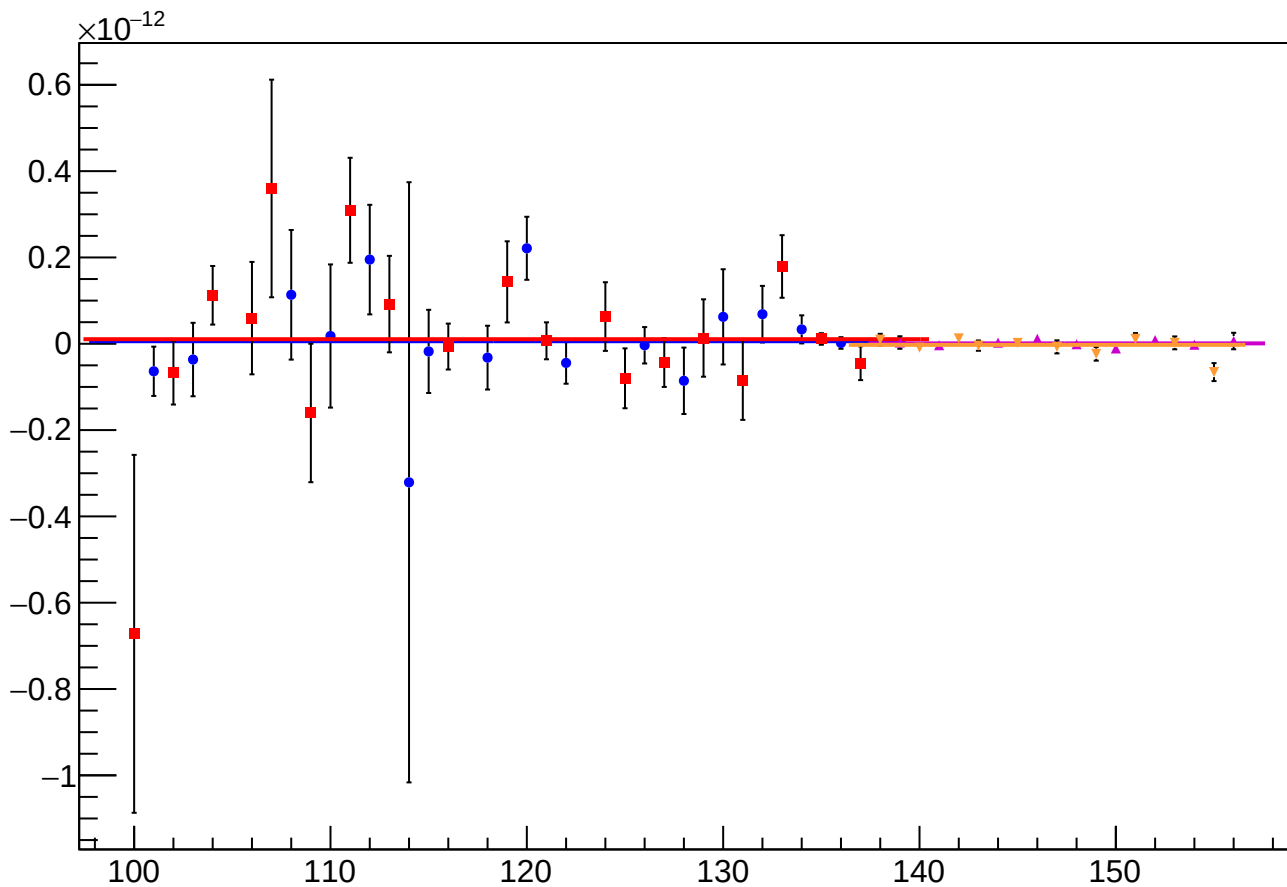
Right: 619.870+/-0.124 χ^2/NDF : 4184800.0/34

In: 331.853+/-0.067 χ^2/NDF : 5592804.3/24

Out: 341.602+/-0.069 χ^2/NDF : 6212983.1/28

All: 336.583+/-0.048 χ^2/NDF : 11815921.4/53

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 :15.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 29.5/18

Left In: 0.000+/-0.000 χ^2/NDF :3.5/8

Left: -0.000+/-0.000 χ^2/NDF : 19.9/18

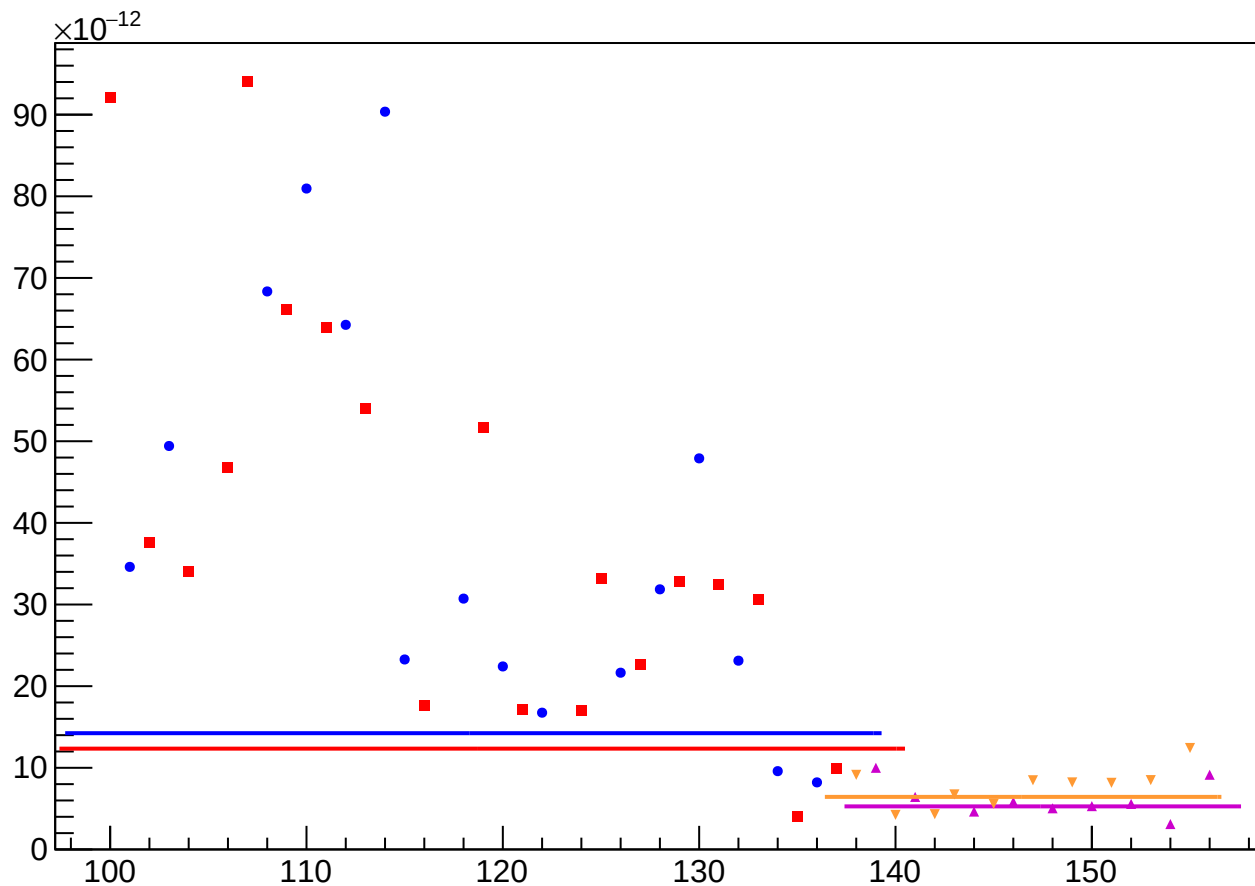
Right: 0.000+/-0.000 χ^2/NDF : 47.8/34

In: 0.000+/-0.000 χ^2/NDF :22.0/24

Out: -0.000+/-0.000 χ^2/NDF :46.7/28

All: 0.000+/-0.000 χ^2/NDF : 69.0/53

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 :625144.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3472954.4/18

Left In: 0.000+/-0.000 χ^2/NDF :491312.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1223934.2/18

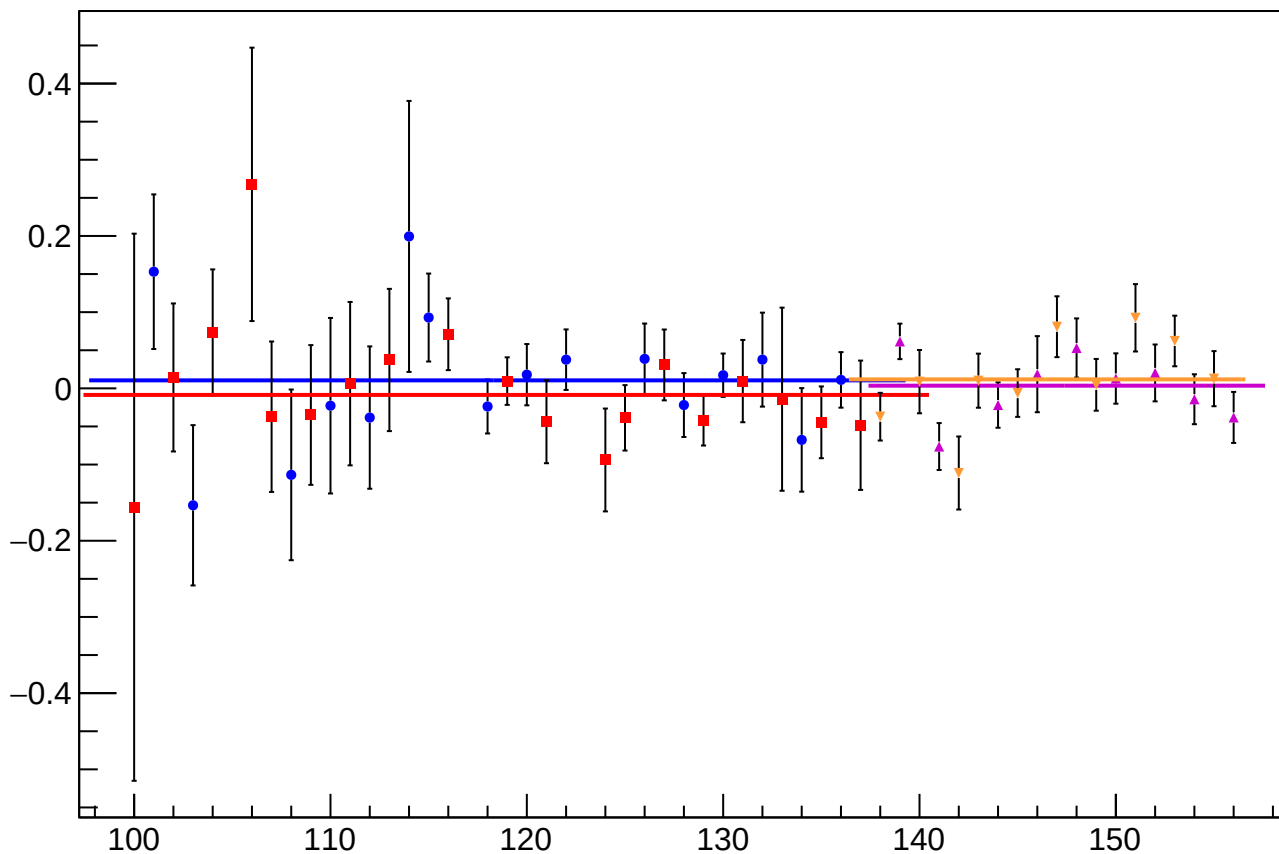
Right: 0.000+/-0.000 χ^2/NDF : 5998748.7/34

In: 0.000+/-0.000 χ^2/NDF :4303076.3/24

Out: 0.000+/-0.000 χ^2/NDF :4655923.2/28

All: 0.000+/-0.000 χ^2/NDF : 9048536.6/53

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: 0.012 $\pm$ 0.012 χ^2 /NDF:18.0/9

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.004 $\pm$ 0.011 χ^2 /NDF:17.5/8

Left: 0.007 $\pm$ 0.008 χ^2 /NDF: 35.8/18

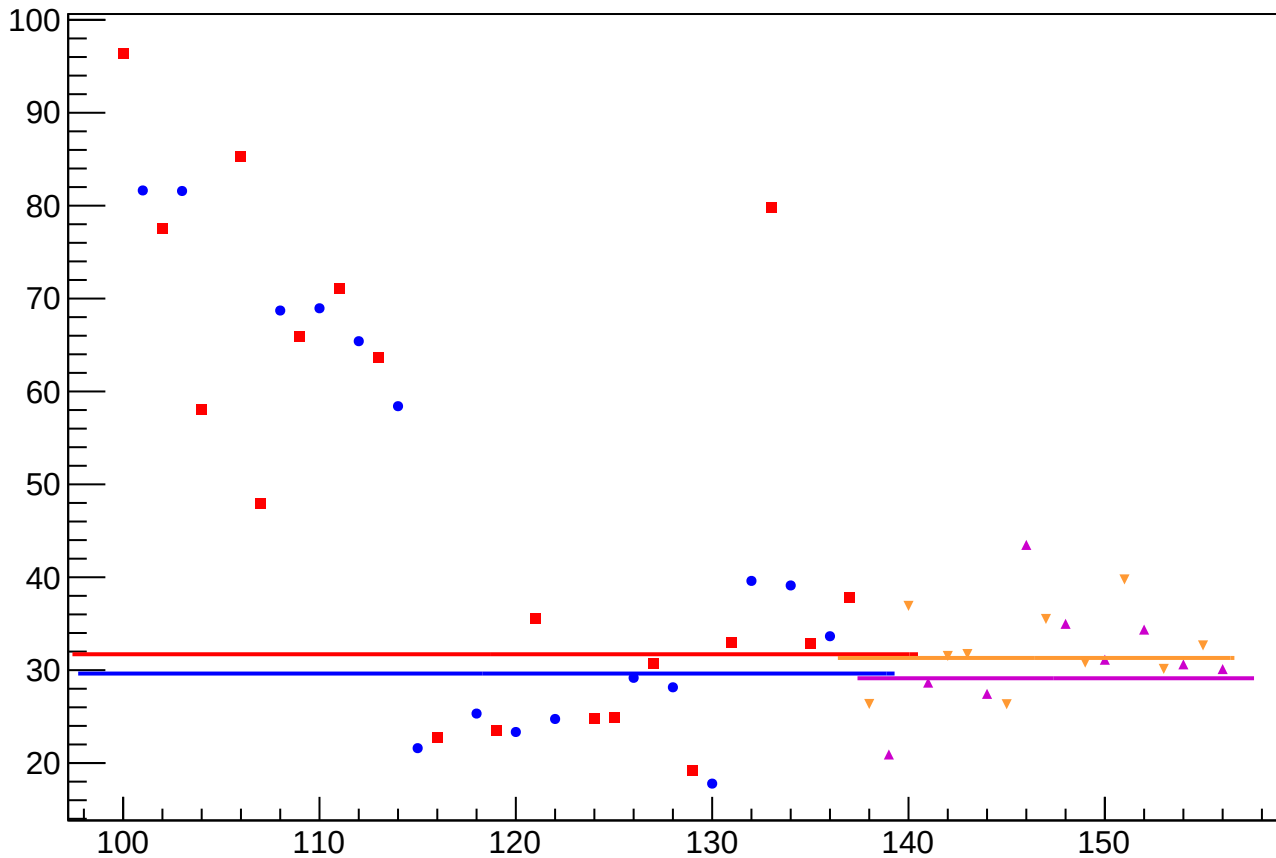
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.008 χ^2 /NDF:30.8/24

Out: 0.003 $\pm$ 0.009 χ^2 /NDF:31.8/28

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 62.7/53

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: 31.314+/-0.008 χ^2/NDF : 238625.5/9

Right Out: 31.712+/-0.009 χ^2/NDF : 2651470.3/18

Left In: 29.128+/-0.008 χ^2/NDF : 518613.4/8

Left: 30.152+/-0.006 χ^2/NDF : 795508.8/18

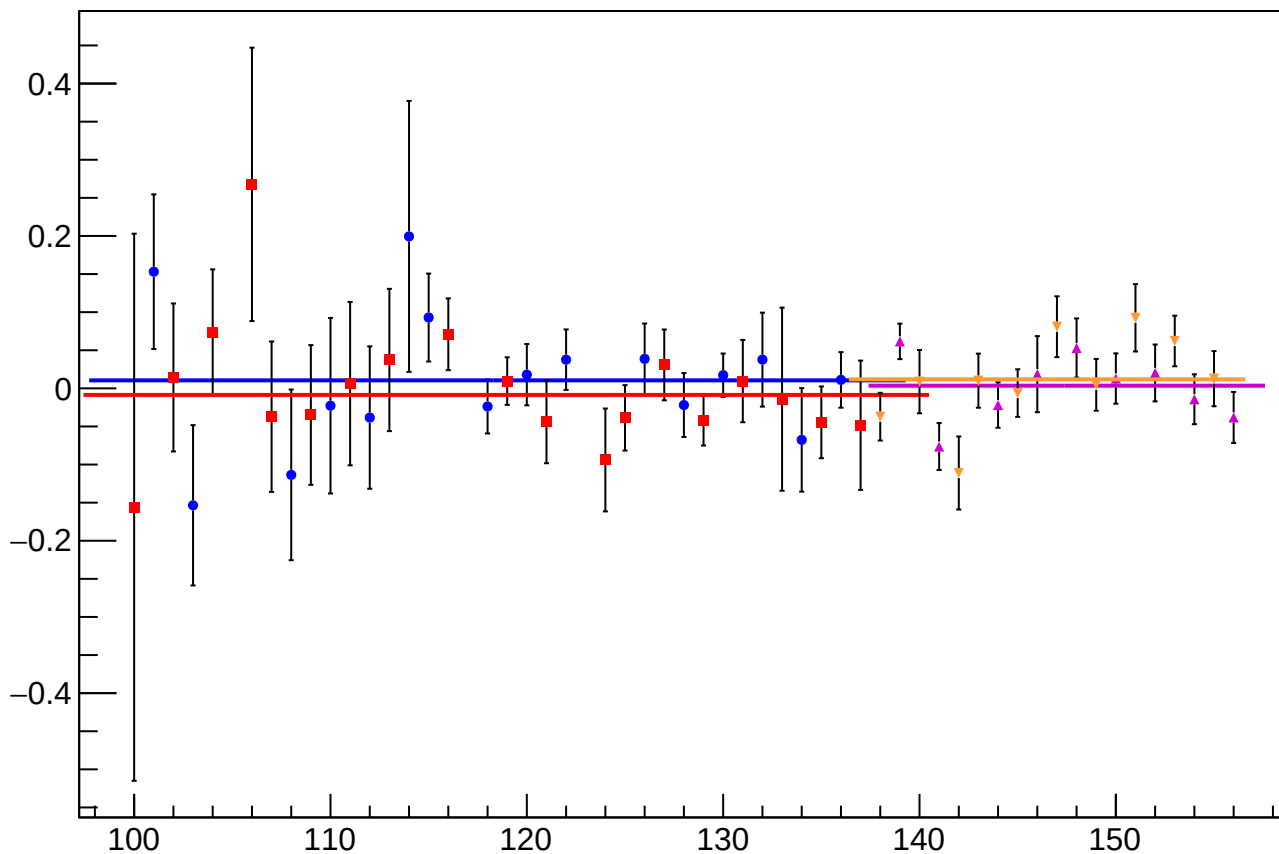
Right: 30.618+/-0.006 χ^2/NDF : 5125863.2/34

In: 29.344+/-0.006 χ^2/NDF : 2968952.7/24

Out: 31.486+/-0.006 χ^2/NDF : 2891126.1/28

All: 30.352+/-0.004 χ^2/NDF : 5924374.0/53

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: 0.012 $\pm$ 0.012 χ^2 /NDF:18.0/9

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.004 $\pm$ 0.011 χ^2 /NDF:17.5/8

Left: 0.007 $\pm$ 0.008 χ^2 /NDF: 35.8/18

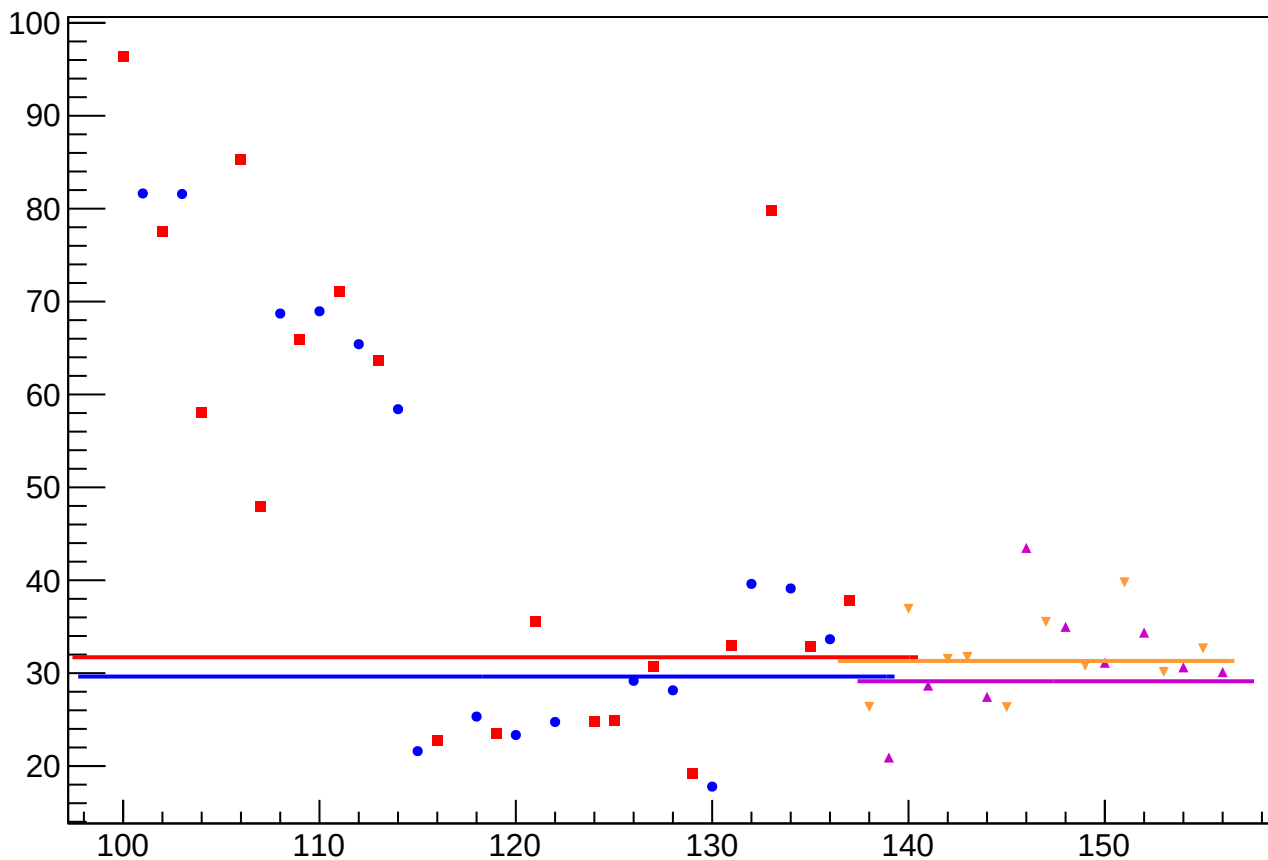
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.008 χ^2 /NDF:30.8/24

Out: 0.003 $\pm$ 0.009 χ^2 /NDF:31.8/28

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 62.7/53

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: 31.314 $\pm$ 0.008 χ^2 /NDF: 238625.5/9

Right Out: 31.712 $\pm$ 0.009 χ^2 /NDF: 2651470.3/18

Left In: 29.128 $\pm$ 0.008 χ^2 /NDF: 518613.4/8

Left: 30.152 $\pm$ 0.006 χ^2 /NDF: 795508.8/18

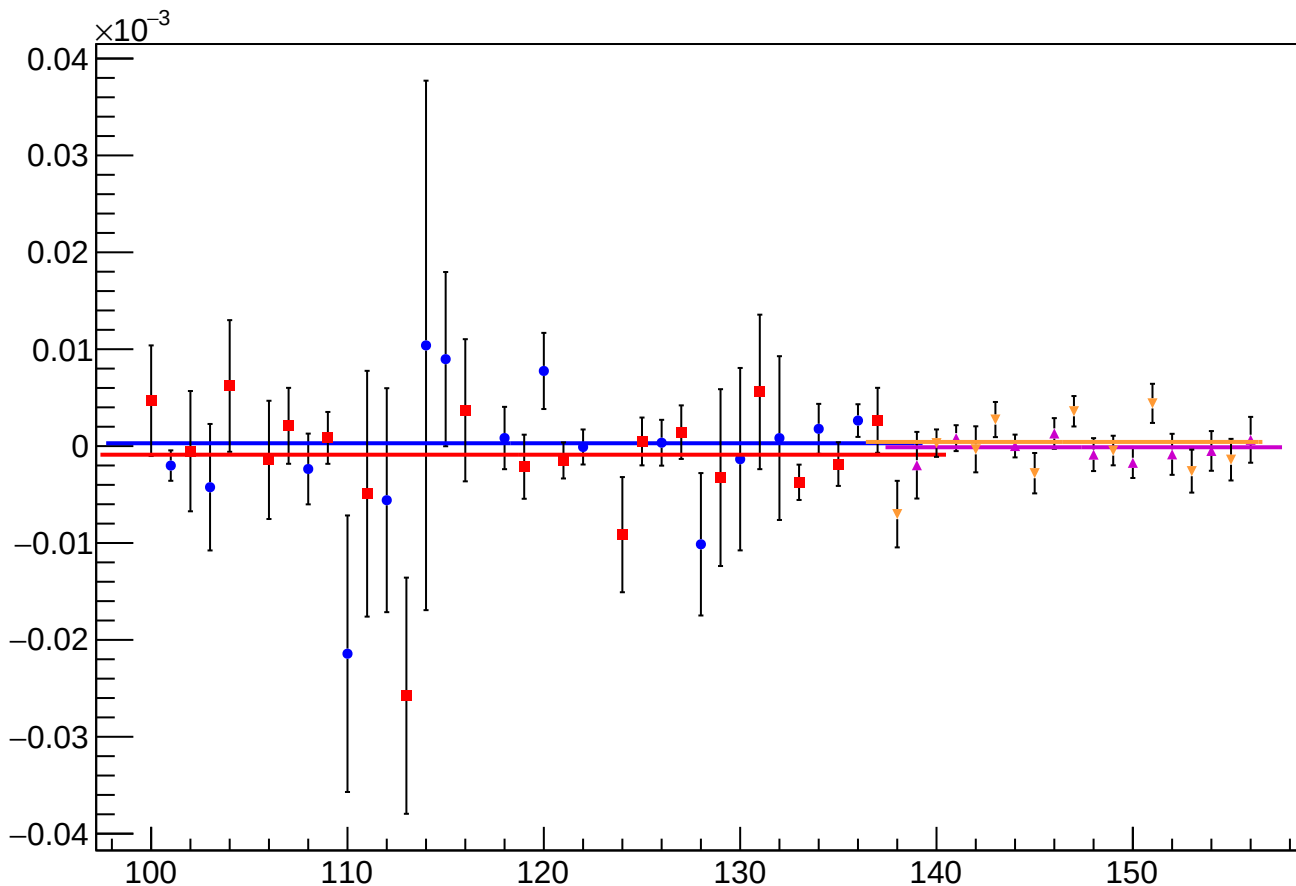
Right: 30.618 $\pm$ 0.006 χ^2 /NDF: 5125863.2/34

In: 29.344 $\pm$ 0.006 χ^2 /NDF: 2968952.7/24

Out: 31.486 $\pm$ 0.006 χ^2 /NDF: 2891126.1/28

All: 30.352 $\pm$ 0.004 χ^2 /NDF: 5924374.0/53

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:19.7/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.4/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:3.1/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.3/18

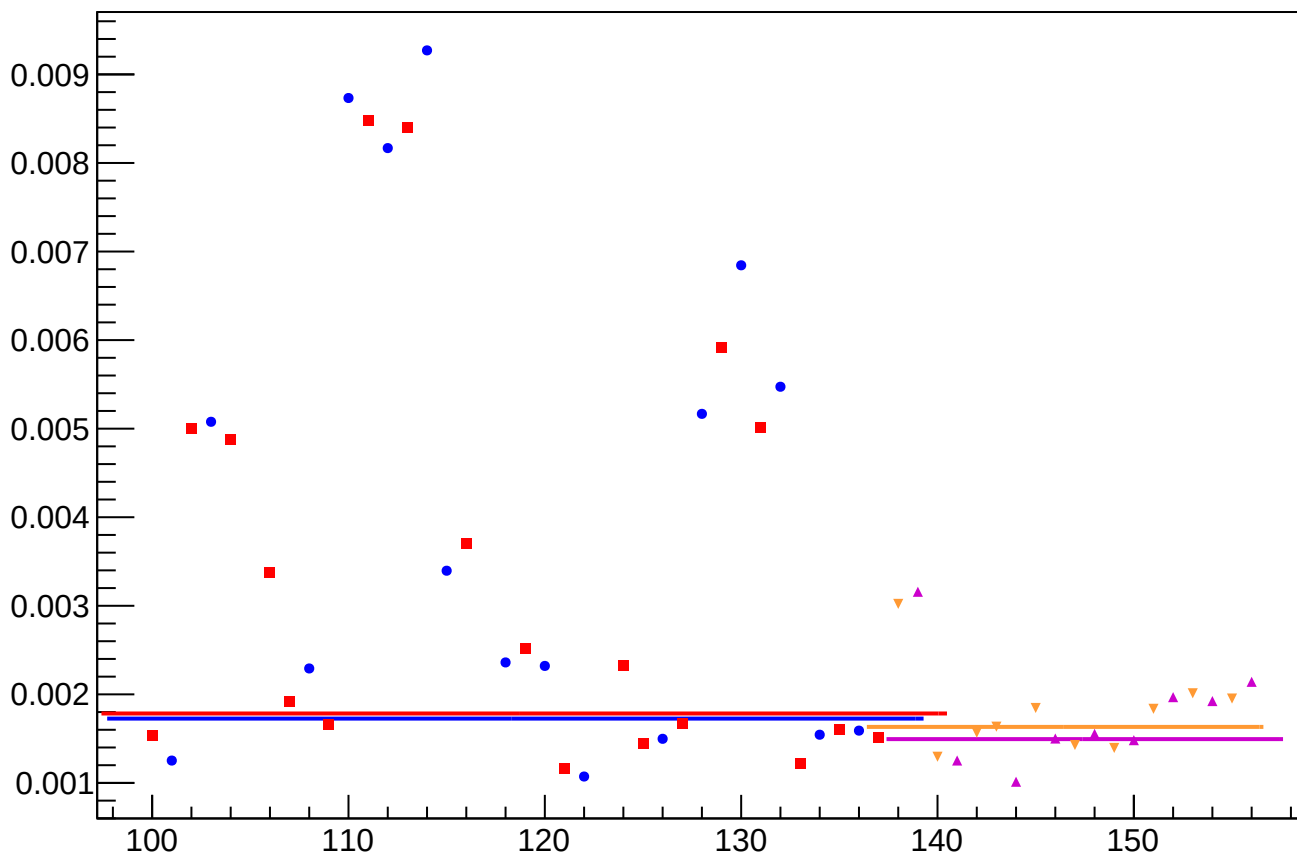
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:18.1/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:36.9/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 55.0/53

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 : 668698.2/9

Right Out: 0.002+/-0.000 χ^2/NDF : 3718778.6/18

Left In: 0.001+/-0.000 χ^2/NDF : 1208561.4/8

Left: 0.002+/-0.000 χ^2/NDF : 1933728.0/18

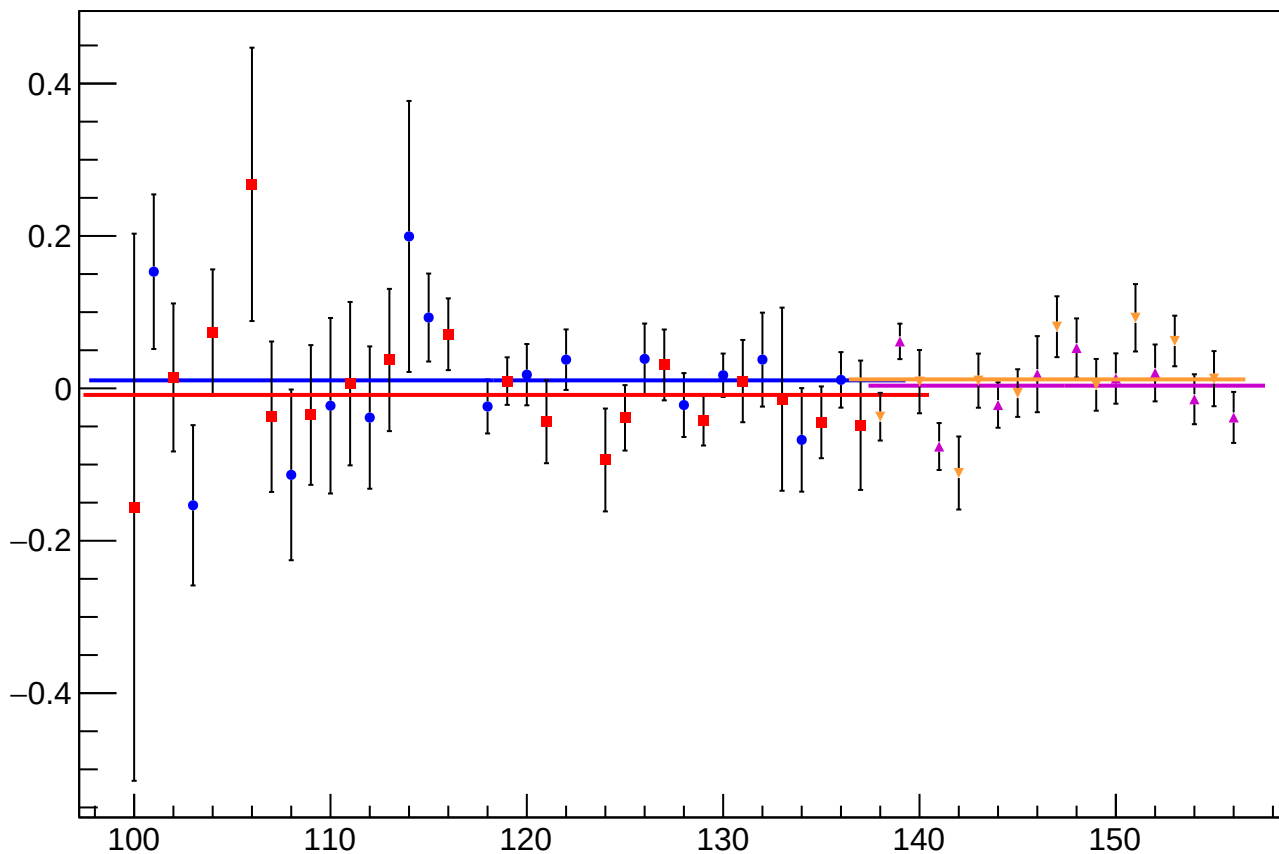
Right: 0.002+/-0.000 χ^2/NDF : 7656643.6/34

In: 0.002+/-0.000 χ^2/NDF : 5260511.1/24

Out: 0.002+/-0.000 χ^2/NDF : 4435221.1/28

All: 0.002+/-0.000 χ^2/NDF : 9754846.2/53

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: 0.012 $\pm$ 0.012 χ^2 /NDF:18.0/9

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.004 $\pm$ 0.011 χ^2 /NDF:17.5/8

Left: 0.007 $\pm$ 0.008 χ^2 /NDF: 35.8/18

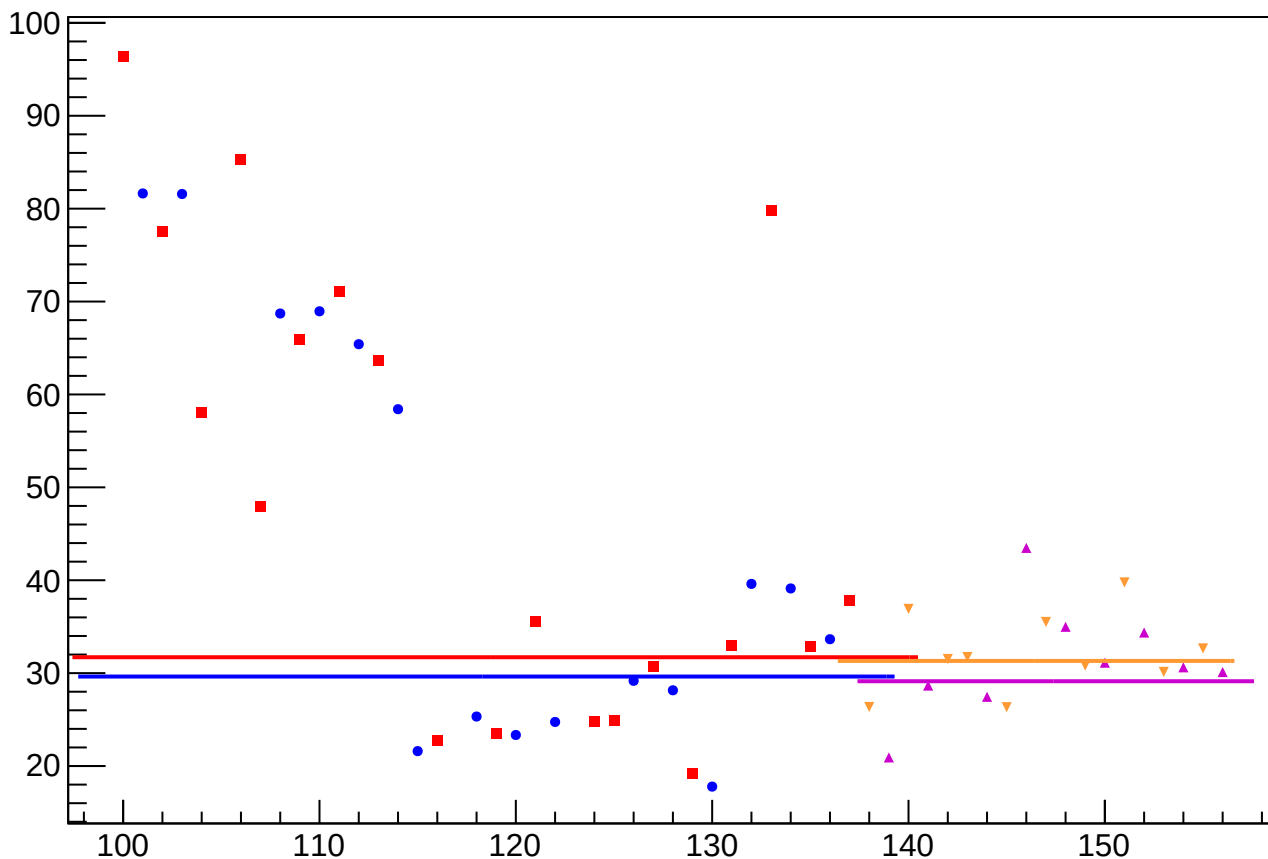
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.008 χ^2 /NDF:30.8/24

Out: 0.003 $\pm$ 0.009 χ^2 /NDF:31.8/28

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 62.7/53

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633+/-0.009 χ^2/NDF : 2448670.6/15

Left Out: 31.314+/-0.008 χ^2/NDF : 238626.8/9

Right Out: 31.711+/-0.009 χ^2/NDF : 2651638.6/18

Left In: 29.128+/-0.008 χ^2/NDF : 518602.5/8

Left: 30.152+/-0.006 χ^2/NDF : 795498.1/18

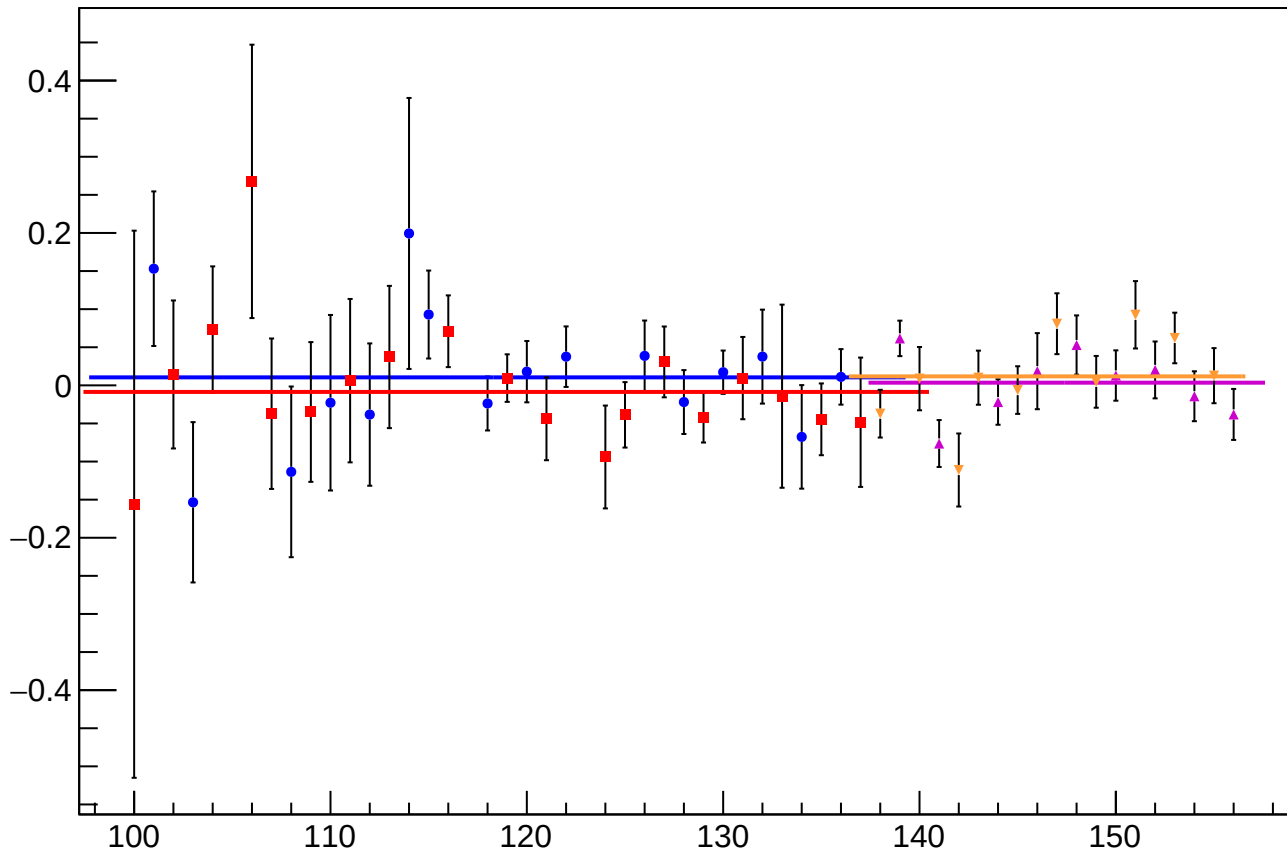
Right: 30.617+/-0.006 χ^2/NDF : 5126235.3/34

In: 29.343+/-0.006 χ^2/NDF : 2969132.3/24

Out: 31.485+/-0.006 χ^2/NDF : 2891287.1/28

All: 30.351+/-0.004 χ^2/NDF : 5924714.1/53

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 ± 0.013 $\chi^2/\text{NDF}: 13.1/15$

Left Out: 0.012 ± 0.012 $\chi^2/\text{NDF}: 18.0/9$

Right Out: -0.009 ± 0.013 $\chi^2/\text{NDF}: 12.4/18$

Left In: 0.004 ± 0.011 $\chi^2/\text{NDF}: 17.5/8$

Left: 0.007 ± 0.008 $\chi^2/\text{NDF}: 35.8/18$

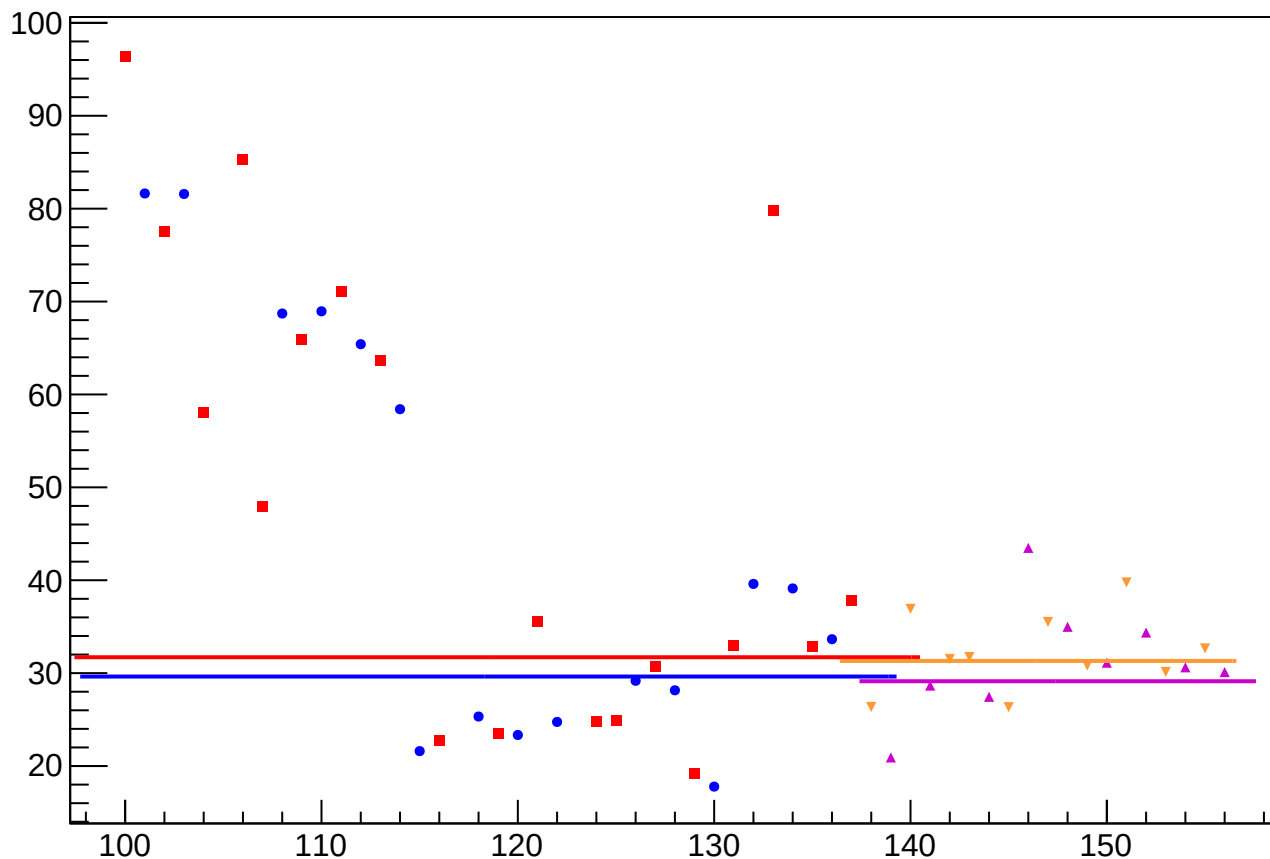
Right: 0.001 ± 0.009 $\chi^2/\text{NDF}: 26.7/34$

In: 0.006 ± 0.008 $\chi^2/\text{NDF}: 30.8/24$

Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 31.8/28$

All: 0.005 ± 0.006 $\chi^2/\text{NDF}: 62.7/53$

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633+/-0.009 χ^2/NDF : 2448670.6/15

Left Out: 31.314+/-0.008 χ^2/NDF : 238626.8/9

Right Out: 31.711+/-0.009 χ^2/NDF : 2651638.6/18

Left In: 29.128+/-0.008 χ^2/NDF : 518602.5/8

Left: 30.152+/-0.006 χ^2/NDF : 795498.1/18

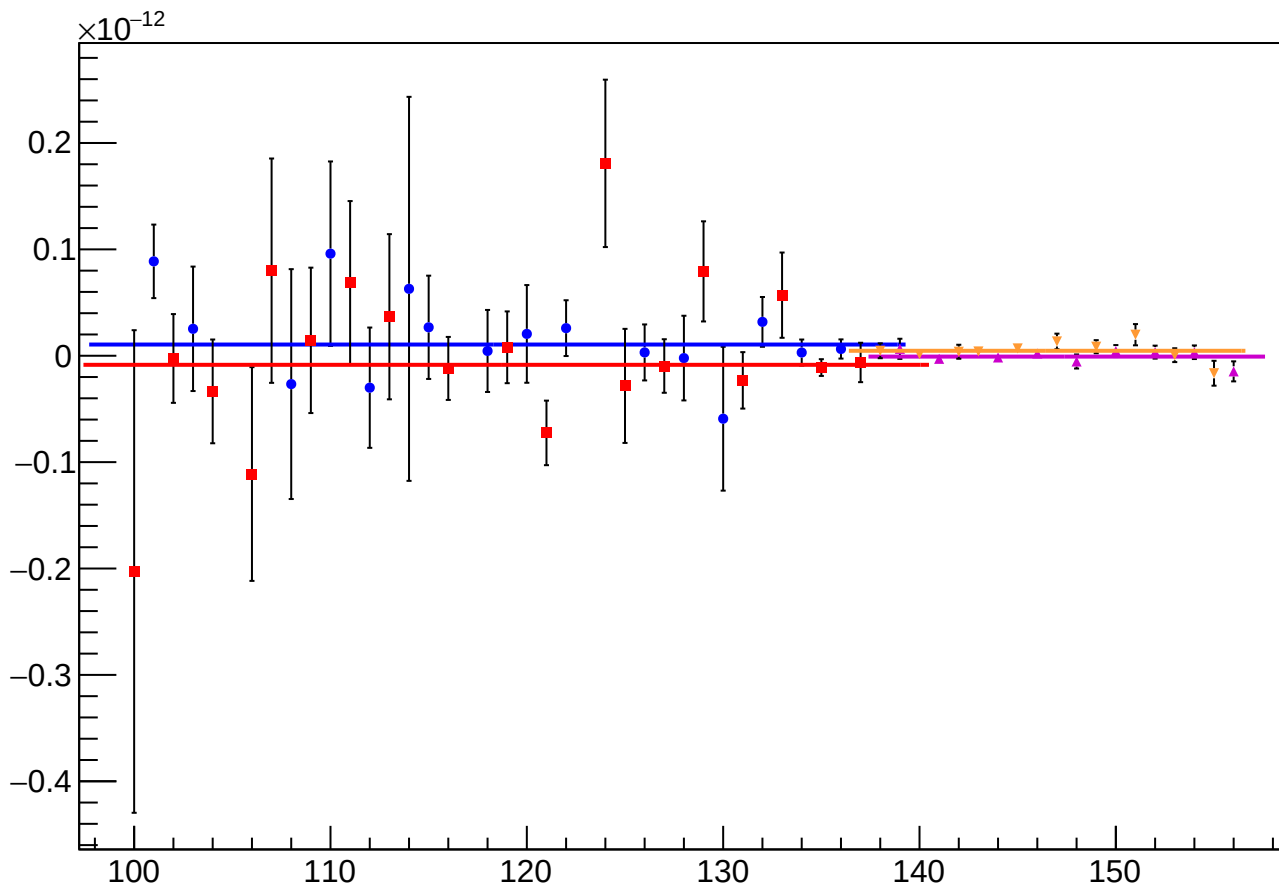
Right: 30.617+/-0.006 χ^2/NDF : 5126235.3/34

In: 29.343+/-0.006 χ^2/NDF : 2969132.3/24

Out: 31.485+/-0.006 χ^2/NDF : 2891287.1/28

All: 30.351+/-0.004 χ^2/NDF : 5924714.1/53

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 8.9/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.0/8

Left: 0.000+/-0.000 χ^2/NDF : 19.9/18

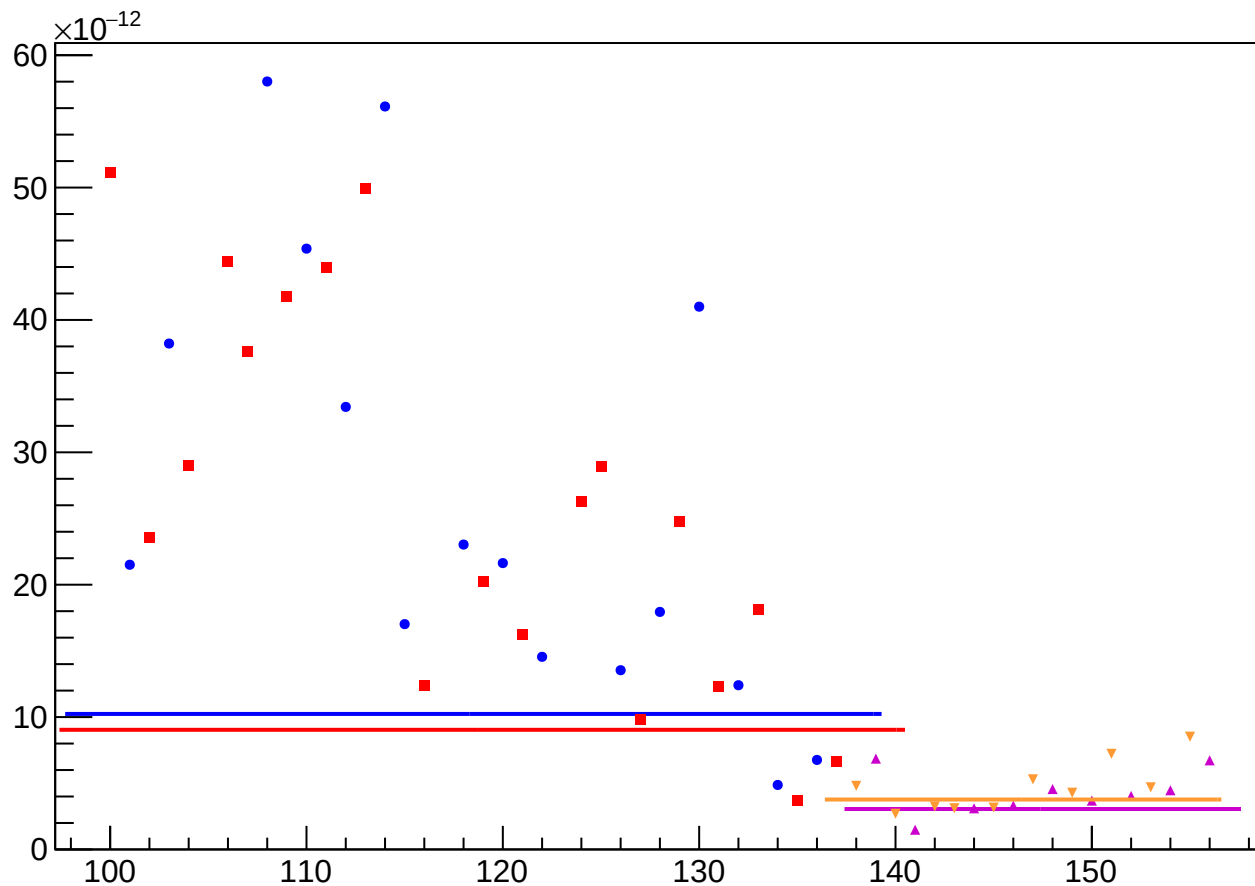
Right: 0.000+/-0.000 χ^2/NDF : 36.6/34

In: -0.000+/-0.000 χ^2/NDF : 19.4/24

Out: 0.000+/-0.000 χ^2/NDF : 34.8/28

All: 0.000+/-0.000 χ^2/NDF : 56.6/53

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 : 1012669.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4514368.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1587668.6/8

Left: 0.000+/-0.000 χ^2/NDF : 2773185.6/18

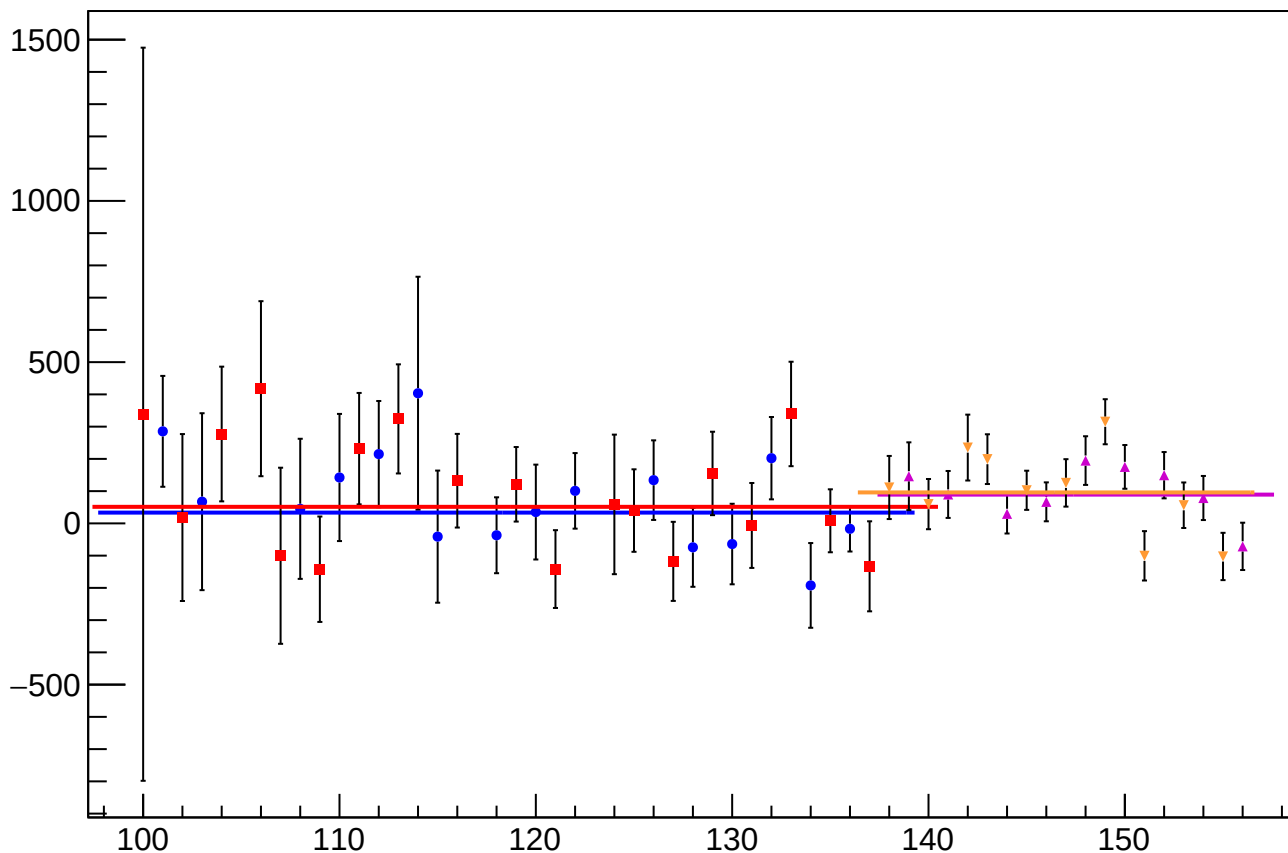
Right: 0.000+/-0.000 χ^2/NDF : 8066534.1/34

In: 0.000+/-0.000 χ^2/NDF : 7770518.5/24

Out: 0.000+/-0.000 χ^2/NDF : 6973037.9/28

All: 0.000+/-0.000 χ^2/NDF : 14908910.2/53

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.431+/-33.881 χ^2/NDF : 12.8/15

Left Out: 96.010+/-23.895 χ^2/NDF : 28.2/9

Right Out: 51.335+/-34.851 χ^2/NDF : 19.6/18

Left In: 89.211+/-23.509 χ^2/NDF : 10.5/8

Left: 92.555+/-16.758 χ^2/NDF : 38.7/18

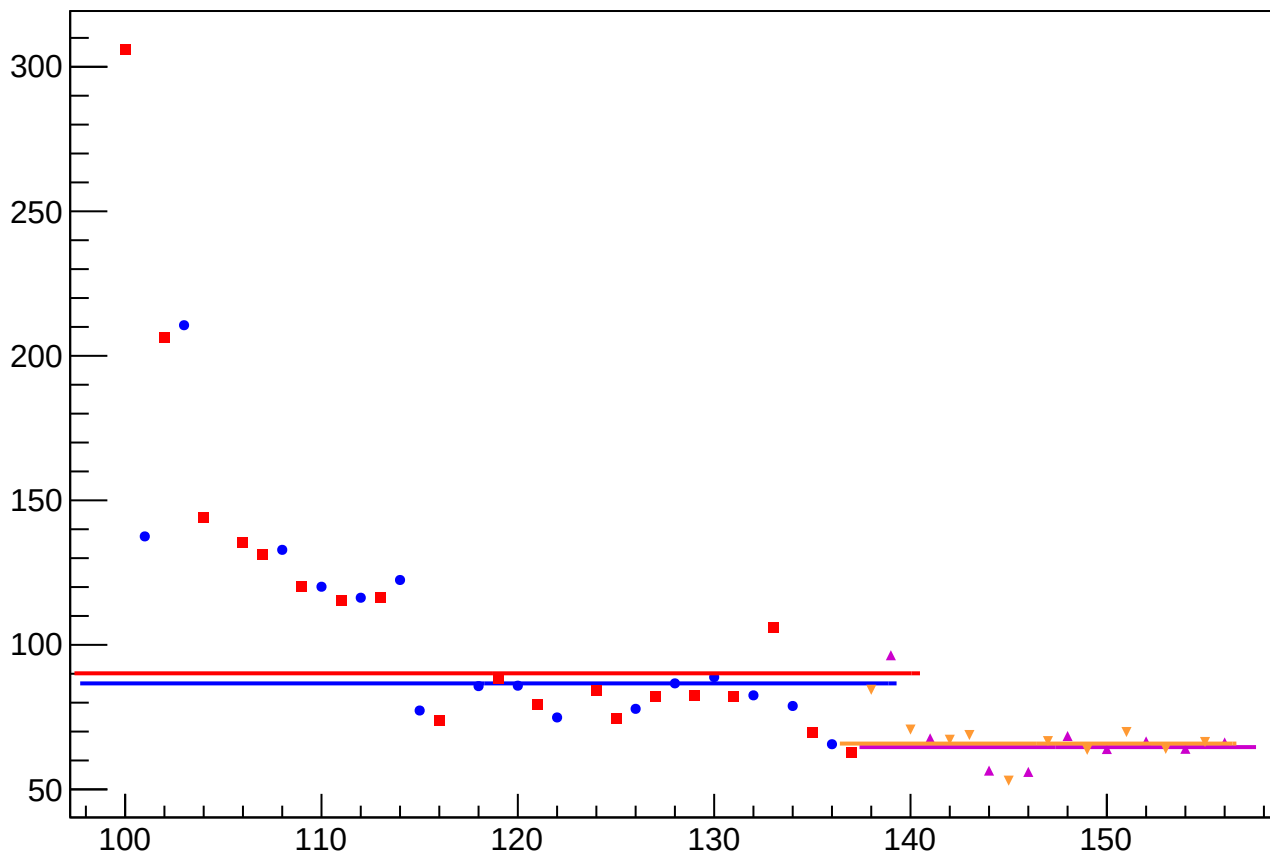
Right: 42.130+/-24.293 χ^2/NDF : 32.5/34

In: 71.083+/-19.315 χ^2/NDF : 25.1/24

Out: 81.725+/-19.707 χ^2/NDF : 48.8/28

All: 76.297+/-13.794 χ^2/NDF : 74.1/53

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666+/-0.024 χ^2/NDF : 1038813.4/15

Left Out: 65.847+/-0.017 χ^2/NDF : 181767.9/9

Right Out: 90.153+/-0.025 χ^2/NDF : 1149976.9/18

Left In: 64.627+/-0.017 χ^2/NDF : 270337.1/8

Left: 65.227+/-0.012 χ^2/NDF : 454750.4/18

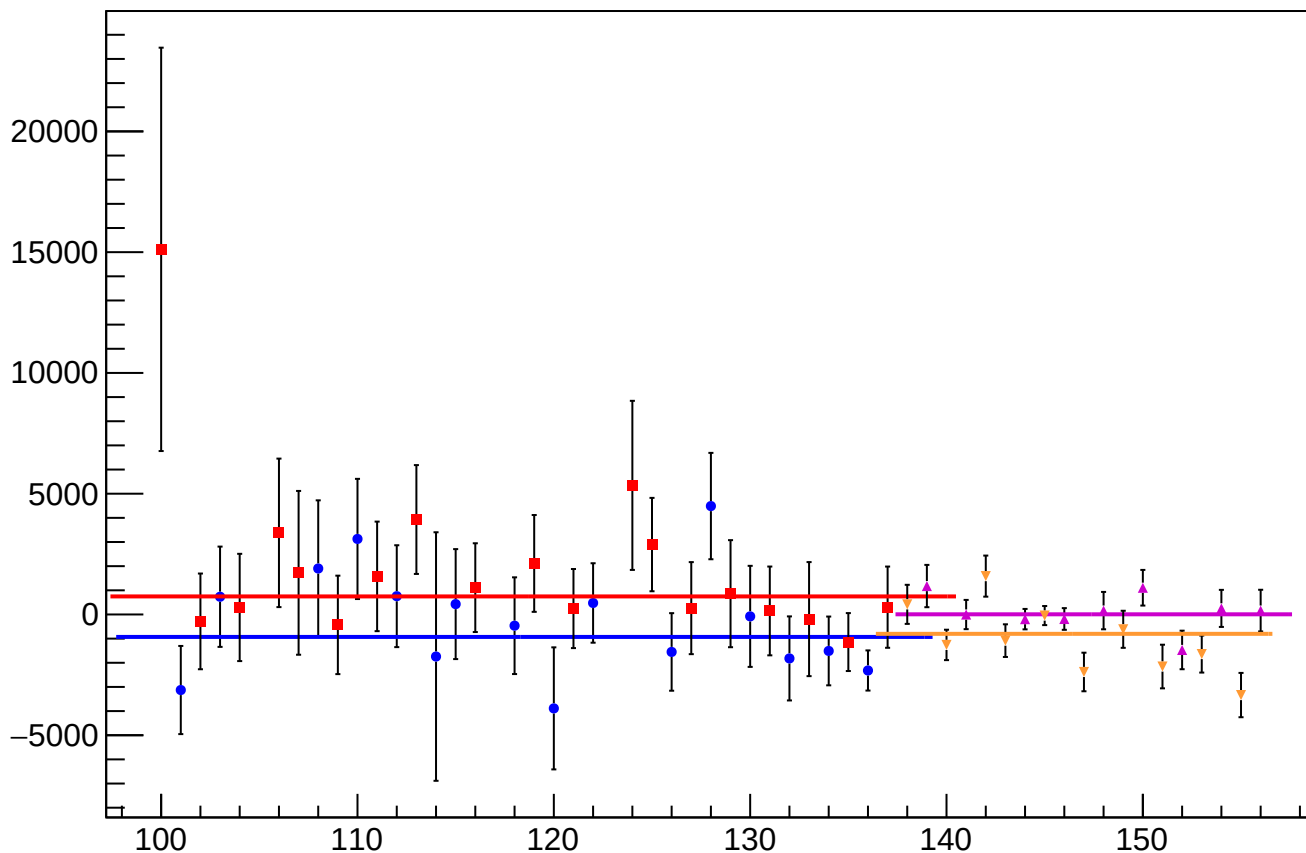
Right: 88.360+/-0.017 χ^2/NDF : 2199082.5/34

In: 71.790+/-0.014 χ^2/NDF : 1880368.0/24

Out: 73.619+/-0.014 χ^2/NDF : 1993499.5/28

All: 72.686+/-0.010 χ^2/NDF : 3882653.0/53

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: -802.039 ± 216.075 $\chi^2/\text{NDF}: 29.6/9$

Right Out: 747.199 ± 467.902 $\chi^2/\text{NDF}: 13.0/18$

Left In: 6.695 ± 209.845 $\chi^2/\text{NDF}: 8.0/8$

Left: -385.844 ± 150.537 $\chi^2/\text{NDF}: 44.8/18$

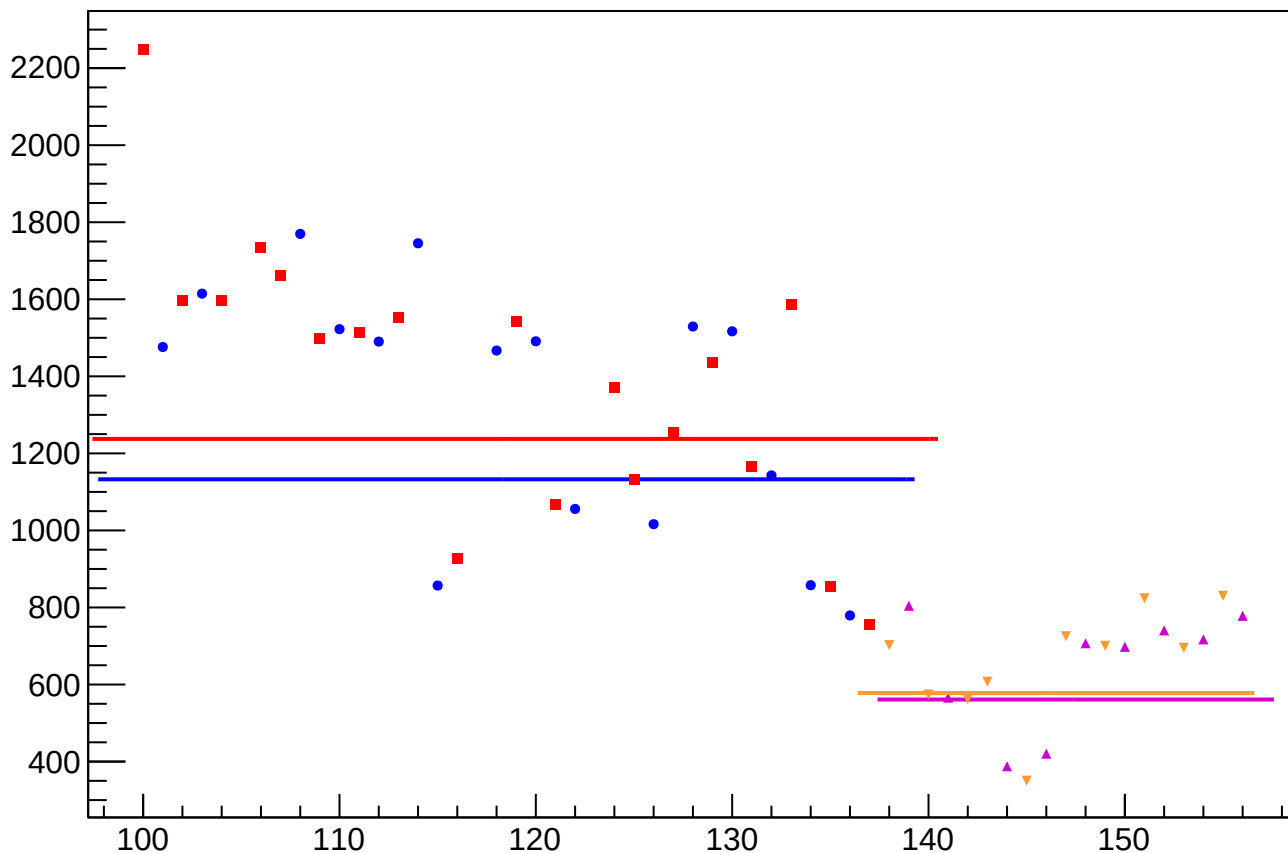
Right: -141.108 ± 320.882 $\chi^2/\text{NDF}: 38.3/34$

In: -166.273 ± 189.478 $\chi^2/\text{NDF}: 30.2/24$

Out: -529.729 ± 196.168 $\chi^2/\text{NDF}: 51.6/28$

All: -341.697 ± 136.285 $\chi^2/\text{NDF}: 83.6/53$

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: 578.057 $\pm$ 0.153 χ^2 /NDF: 1181711.3/9

Right Out: 1237.591 $\pm$ 0.331 χ^2 /NDF: 895314.3/18

Left In: 561.064 $\pm$ 0.148 χ^2 /NDF: 1136959.8/8

Left: 569.312 $\pm$ 0.106 χ^2 /NDF: 2325036.8/18

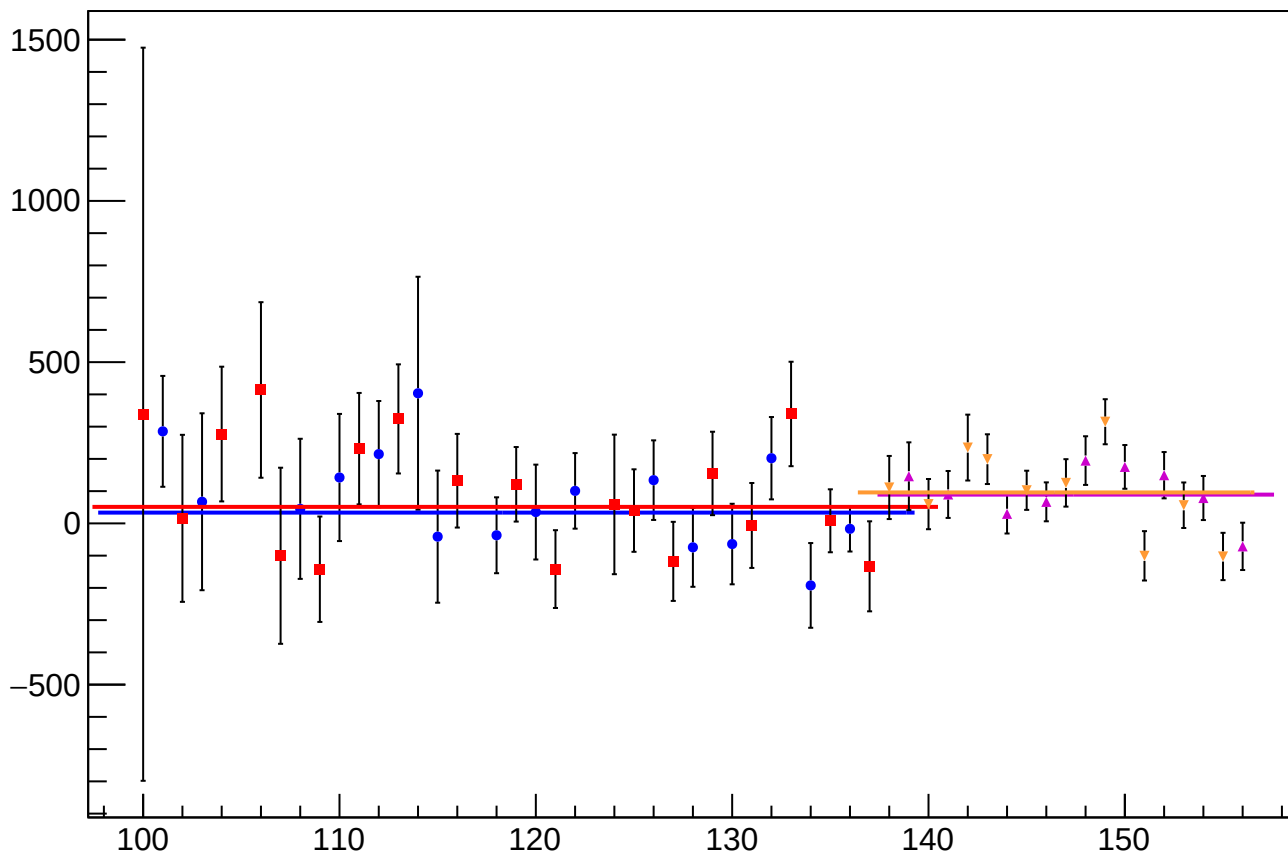
Right: 1182.025 $\pm$ 0.227 χ^2 /NDF: 2072715.6/34

In: 666.639 $\pm$ 0.134 χ^2 /NDF: 5002087.6/24

Out: 693.984 $\pm$ 0.139 χ^2 /NDF: 5352257.9/28

All: 679.837 $\pm$ 0.096 χ^2 /NDF: 10374450.1/53

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: 96.014 $\pm$ 23.895 χ^2 /NDF:28.2/9

Right Out: 51.188 $\pm$ 34.853 χ^2 /NDF: 19.5/18

Left In: 89.211 $\pm$ 23.509 χ^2 /NDF:10.5/8

Left: 92.557 $\pm$ 16.758 χ^2 /NDF: 38.7/18

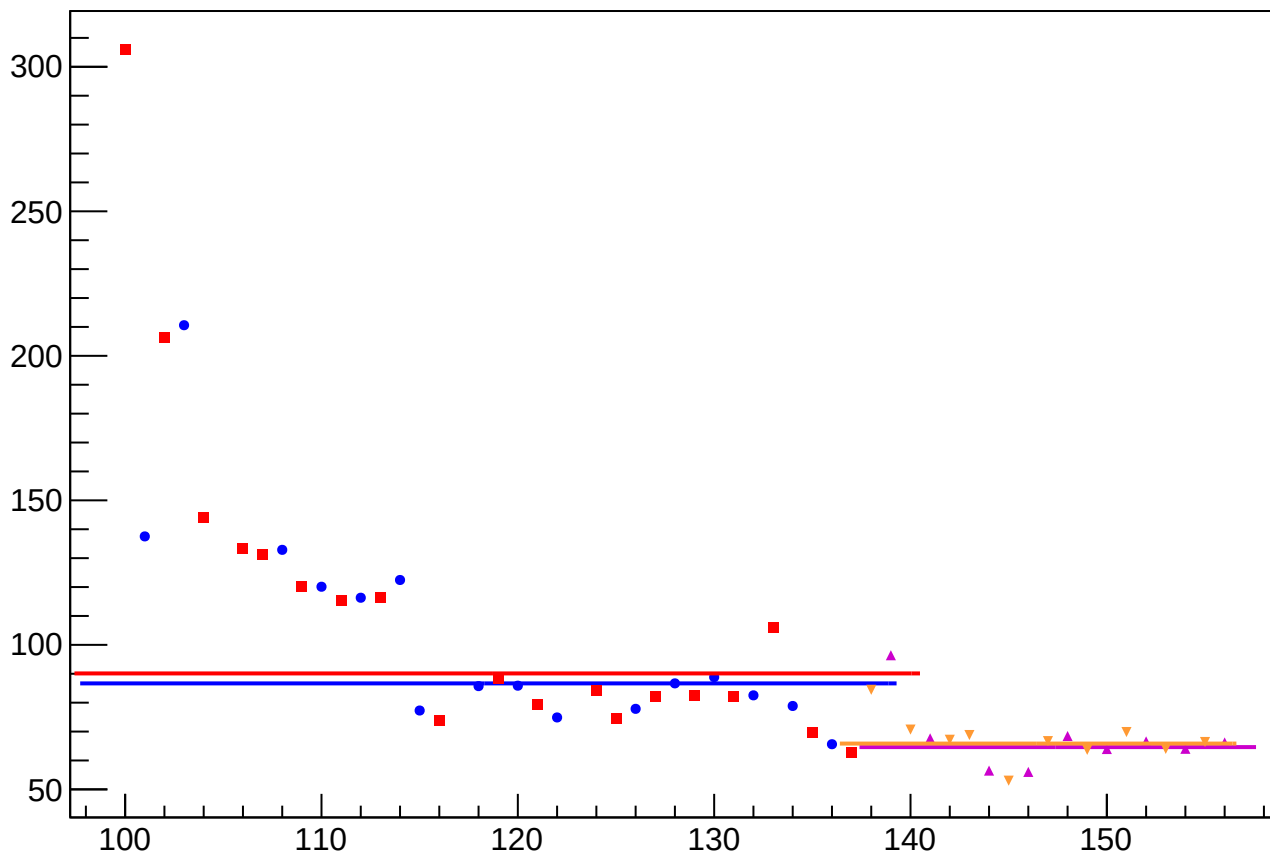
Right: 42.054 $\pm$ 24.294 χ^2 /NDF: 32.5/34

In: 71.080 $\pm$ 19.315 χ^2 /NDF:25.1/24

Out: 81.682 $\pm$ 19.708 χ^2 /NDF:48.8/28

All: 76.274 $\pm$ 13.795 χ^2 /NDF: 74.0/53

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: 65.847 $\pm$ 0.017 χ^2 /NDF: 181767.9/9

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 64.627 $\pm$ 0.017 χ^2 /NDF: 270337.1/8

Left: 65.227 $\pm$ 0.012 χ^2 /NDF: 454750.4/18

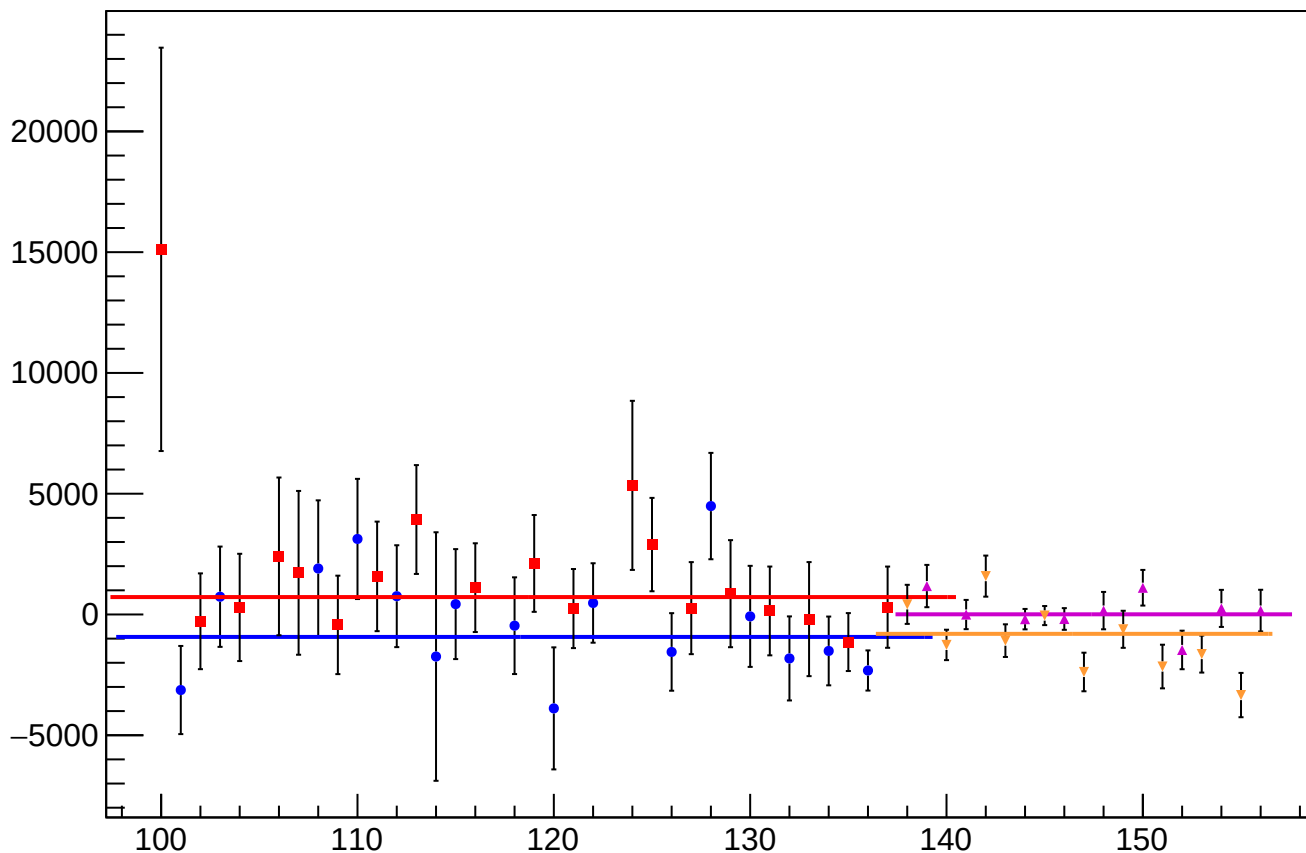
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 71.790 $\pm$ 0.014 χ^2 /NDF: 1880370.6/24

Out: 73.606 $\pm$ 0.014 χ^2 /NDF: 1986733.3/28

All: 72.680 $\pm$ 0.010 χ^2 /NDF: 3875769.5/53

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: -802.032+/-216.075 χ^2/NDF : 29.6/9

Right Out: 720.600+/-468.540 χ^2/NDF : 12.5/18

Left In: 6.696+/-209.845 χ^2/NDF : 8.0/8

Left: -385.841+/-150.537 χ^2/NDF : 44.8/18

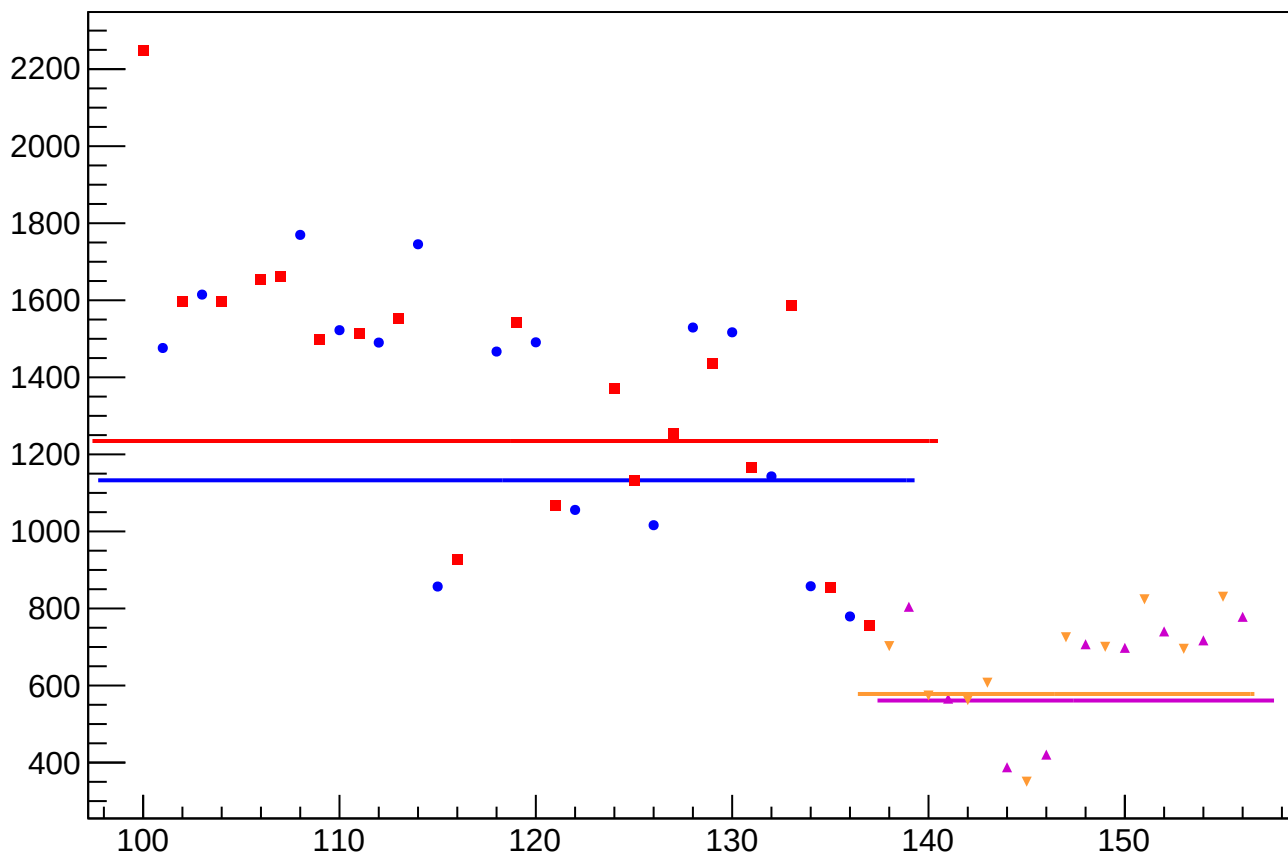
Right: -154.717+/-321.088 χ^2/NDF : 37.6/34

In: -166.265+/-189.478 χ^2/NDF : 30.2/24

Out: -534.999+/-196.215 χ^2/NDF : 50.8/28

All: -344.193+/-136.301 χ^2/NDF : 82.9/53

asym_sam_3726_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689 $\pm$ 0.312 χ^2/NDF : 1124187.2/15

Left Out: 578.057 $\pm$ 0.153 χ^2/NDF : 1181713.6/9

Right Out: 1234.709 $\pm$ 0.331 χ^2/NDF : 876272.4/18

Left In: 561.064 $\pm$ 0.148 χ^2/NDF : 1136960.2/8

Left: 569.312 $\pm$ 0.106 χ^2/NDF : 2325039.1/18

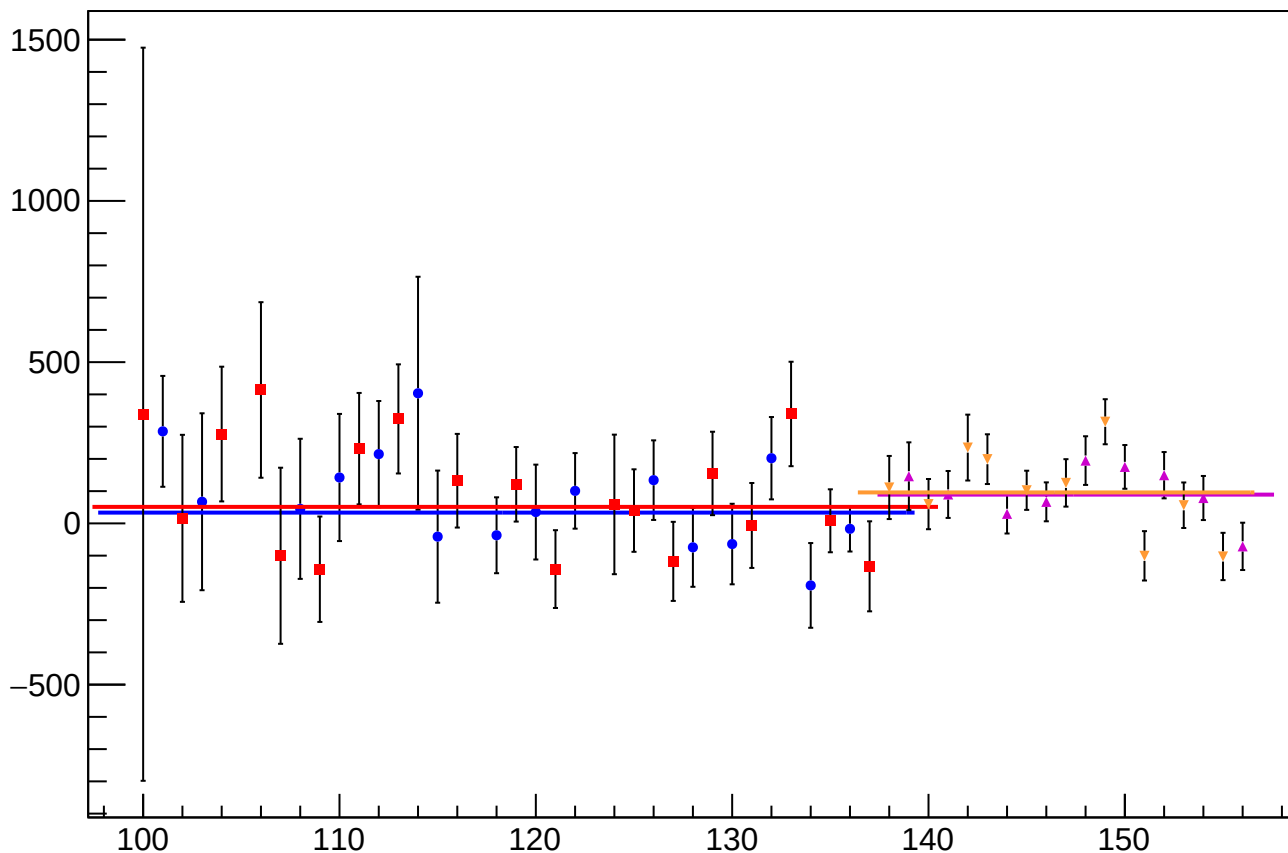
Right: 1180.601 $\pm$ 0.227 χ^2/NDF : 2050749.6/34

In: 666.639 $\pm$ 0.134 χ^2/NDF : 5002124.5/24

Out: 693.218 $\pm$ 0.139 χ^2/NDF : 5297376.5/28

All: 679.464 $\pm$ 0.096 χ^2/NDF : 10318490.9/53

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: 96.014 $\pm$ 23.895 χ^2 /NDF:28.2/9

Right Out: 51.188 $\pm$ 34.853 χ^2 /NDF: 19.5/18

Left In: 89.211 $\pm$ 23.509 χ^2 /NDF:10.5/8

Left: 92.557 $\pm$ 16.758 χ^2 /NDF: 38.7/18

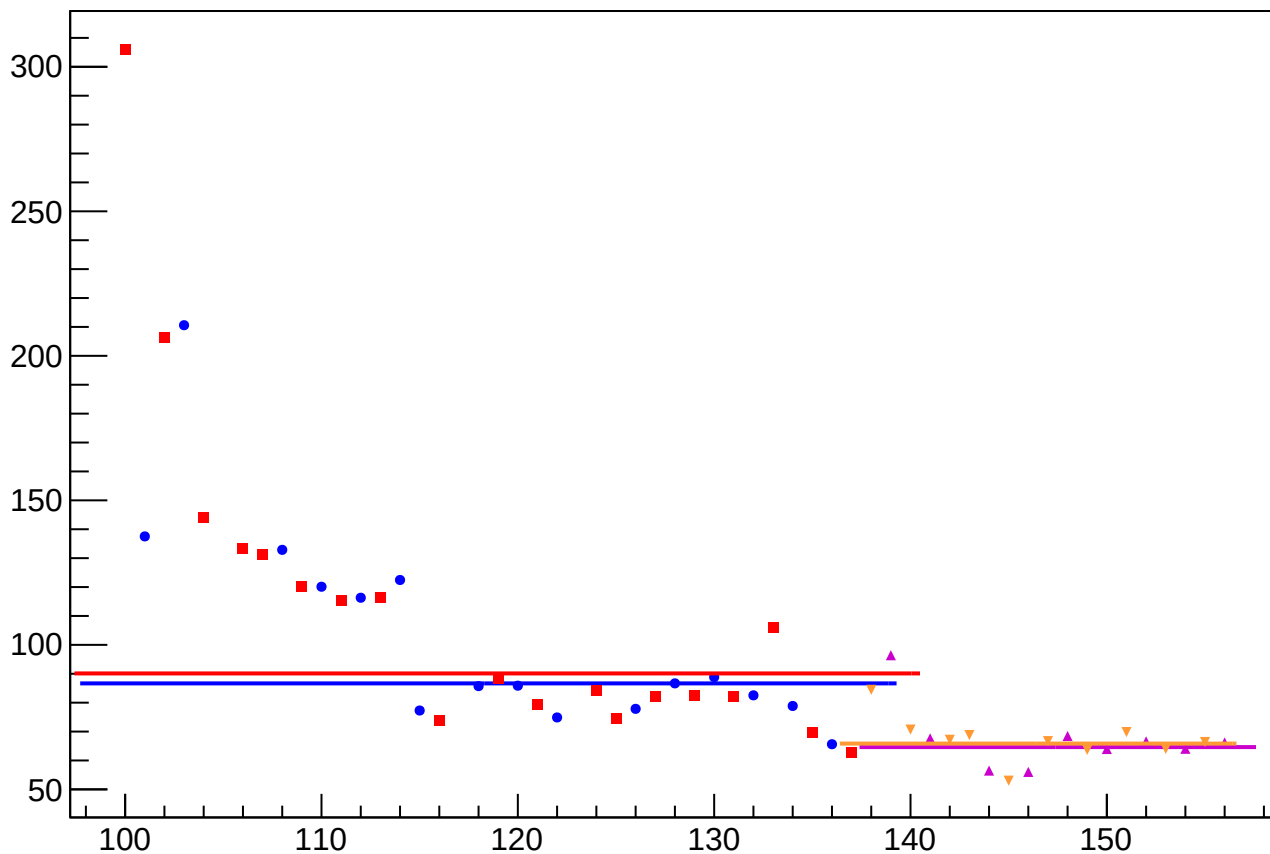
Right: 42.054 $\pm$ 24.294 χ^2 /NDF: 32.5/34

In: 71.080 $\pm$ 19.315 χ^2 /NDF:25.1/24

Out: 81.682 $\pm$ 19.708 χ^2 /NDF:48.8/28

All: 76.274 $\pm$ 13.795 χ^2 /NDF: 74.0/53

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: 65.847 $\pm$ 0.017 χ^2 /NDF: 181767.9/9

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 64.627 $\pm$ 0.017 χ^2 /NDF: 270337.1/8

Left: 65.227 $\pm$ 0.012 χ^2 /NDF: 454750.4/18

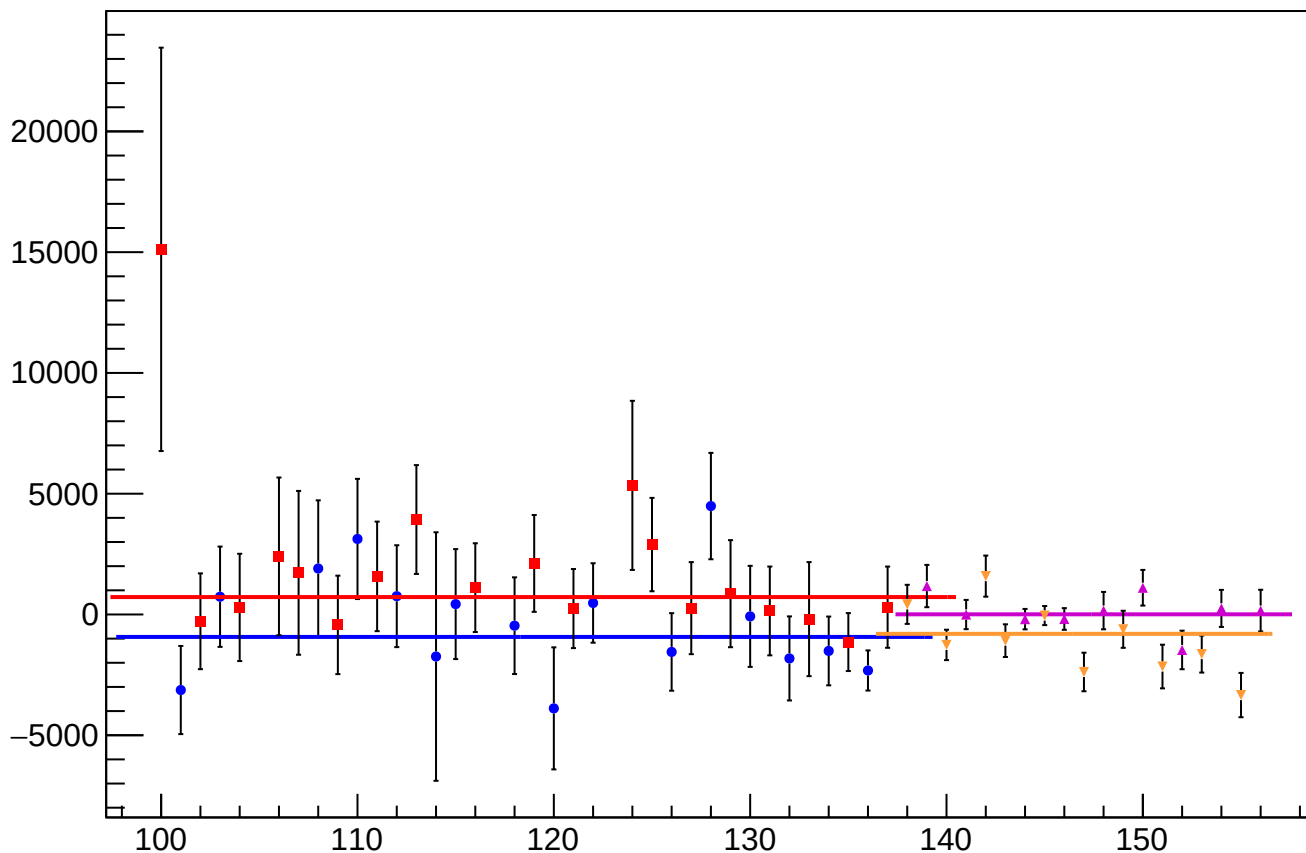
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 71.790 $\pm$ 0.014 χ^2 /NDF: 1880370.6/24

Out: 73.606 $\pm$ 0.014 χ^2 /NDF: 1986733.3/28

All: 72.680 $\pm$ 0.010 χ^2 /NDF: 3875769.5/53

asym_sam_3726_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -929.788 ± 440.894 $\chi^2/\text{NDF}: 18.5/15$

Left Out: -802.032 ± 216.075 $\chi^2/\text{NDF}: 29.6/9$

Right Out: 720.600 ± 468.540 $\chi^2/\text{NDF}: 12.5/18$

Left In: 6.696 ± 209.845 $\chi^2/\text{NDF}: 8.0/8$

Left: -385.841 ± 150.537 $\chi^2/\text{NDF}: 44.8/18$

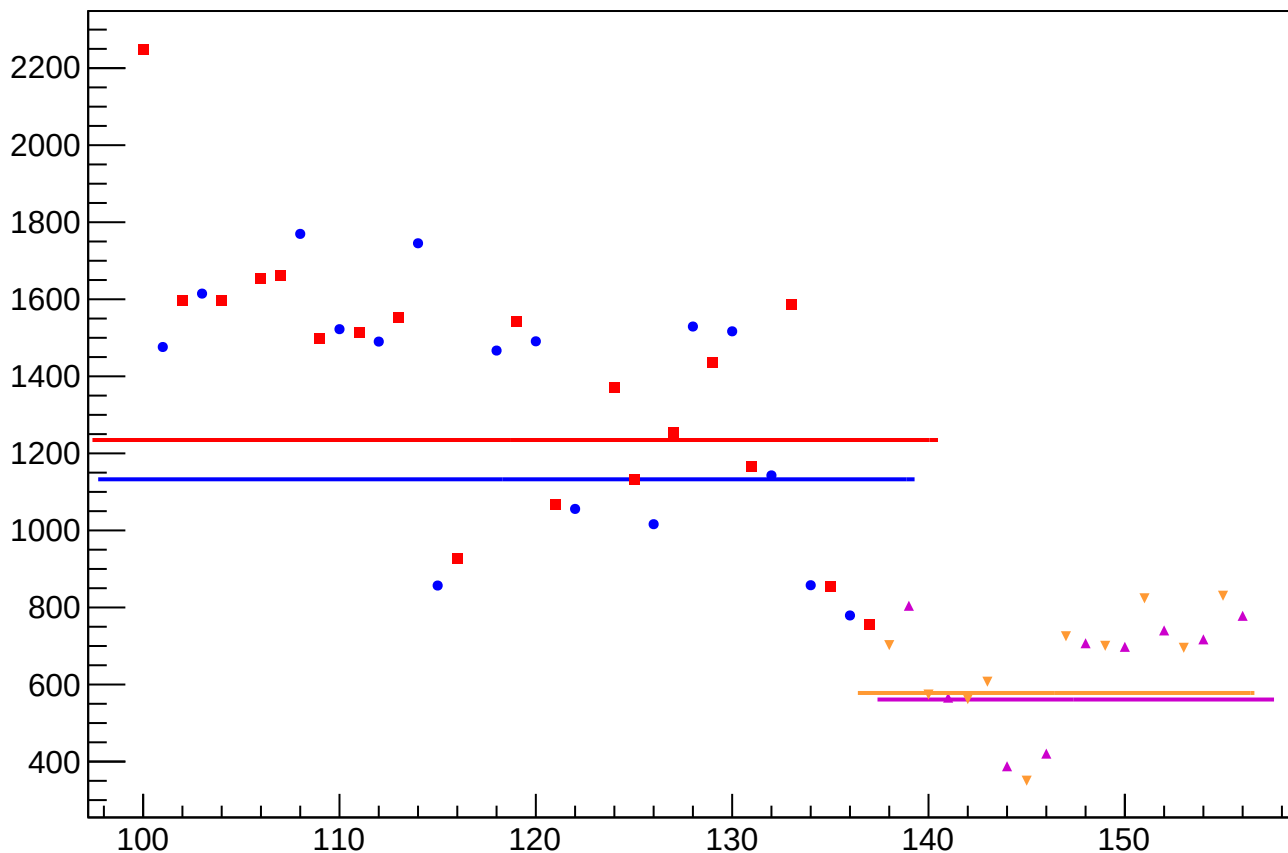
Right: -154.717 ± 321.088 $\chi^2/\text{NDF}: 37.6/34$

In: -166.265 ± 189.478 $\chi^2/\text{NDF}: 30.2/24$

Out: -534.999 ± 196.215 $\chi^2/\text{NDF}: 50.8/28$

All: -344.193 ± 136.301 $\chi^2/\text{NDF}: 82.9/53$

asym_sam_3726_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689+/-0.312 χ^2/NDF : 1124187.2/15

Left Out: 578.057+/-0.153 χ^2/NDF : 1181713.6/9

Right Out: 1234.709+/-0.331 χ^2/NDF : 876272.4/18

Left In: 561.064+/-0.148 χ^2/NDF : 1136960.2/8

Left: 569.312+/-0.106 χ^2/NDF : 2325039.1/18

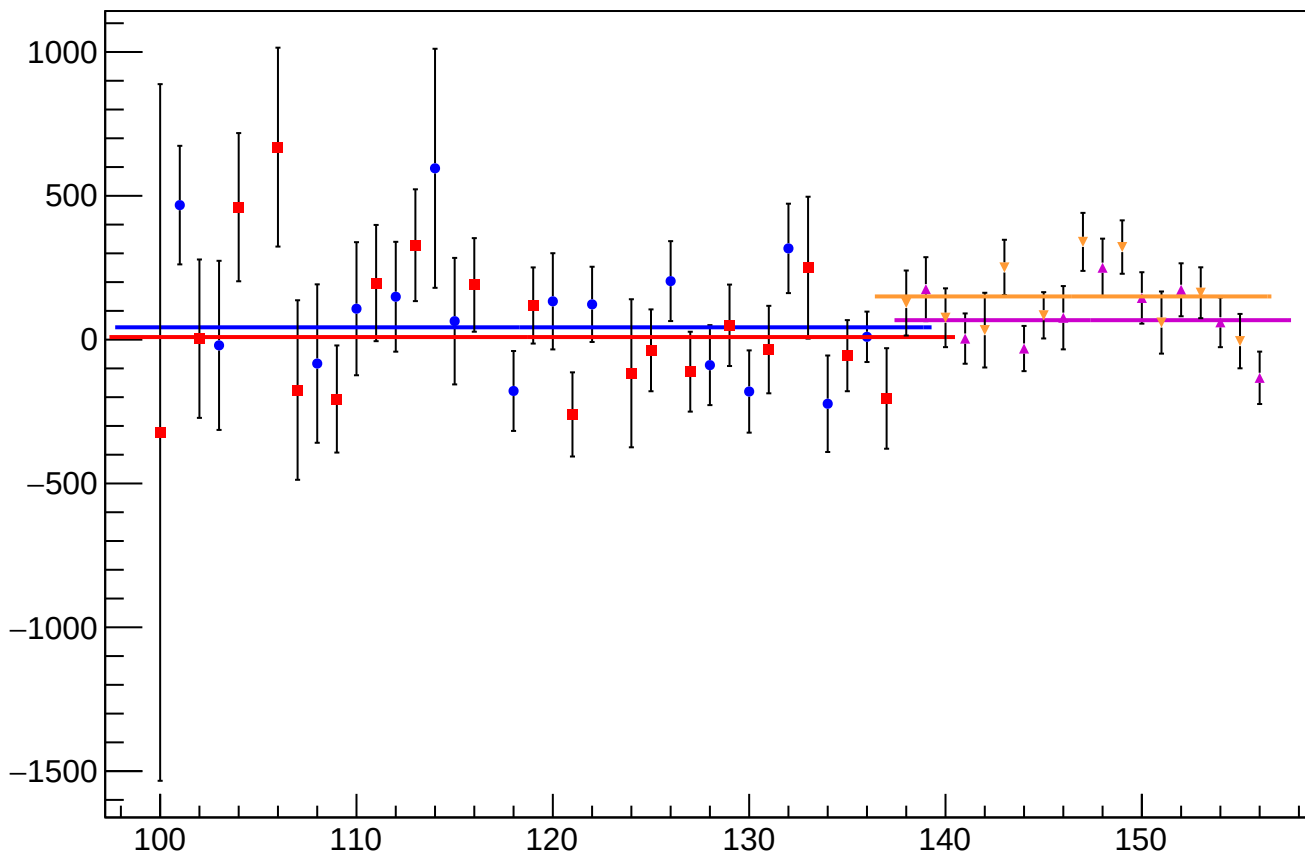
Right: 1180.601+/-0.227 χ^2/NDF : 2050749.6/34

In: 666.639+/-0.134 χ^2/NDF : 5002124.5/24

Out: 693.218+/-0.139 χ^2/NDF : 5297376.5/28

All: 679.464+/-0.096 χ^2/NDF : 10318490.9/53

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: 150.217 $\pm$ 31.073 χ^2/NDF :13.5/9

Right Out: 8.989 $\pm$ 41.060 χ^2/NDF : 21.3/18

Left In: 67.698 $\pm$ 30.839 χ^2/NDF :13.2/8

Left: 108.646 $\pm$ 21.889 χ^2/NDF : 30.3/18

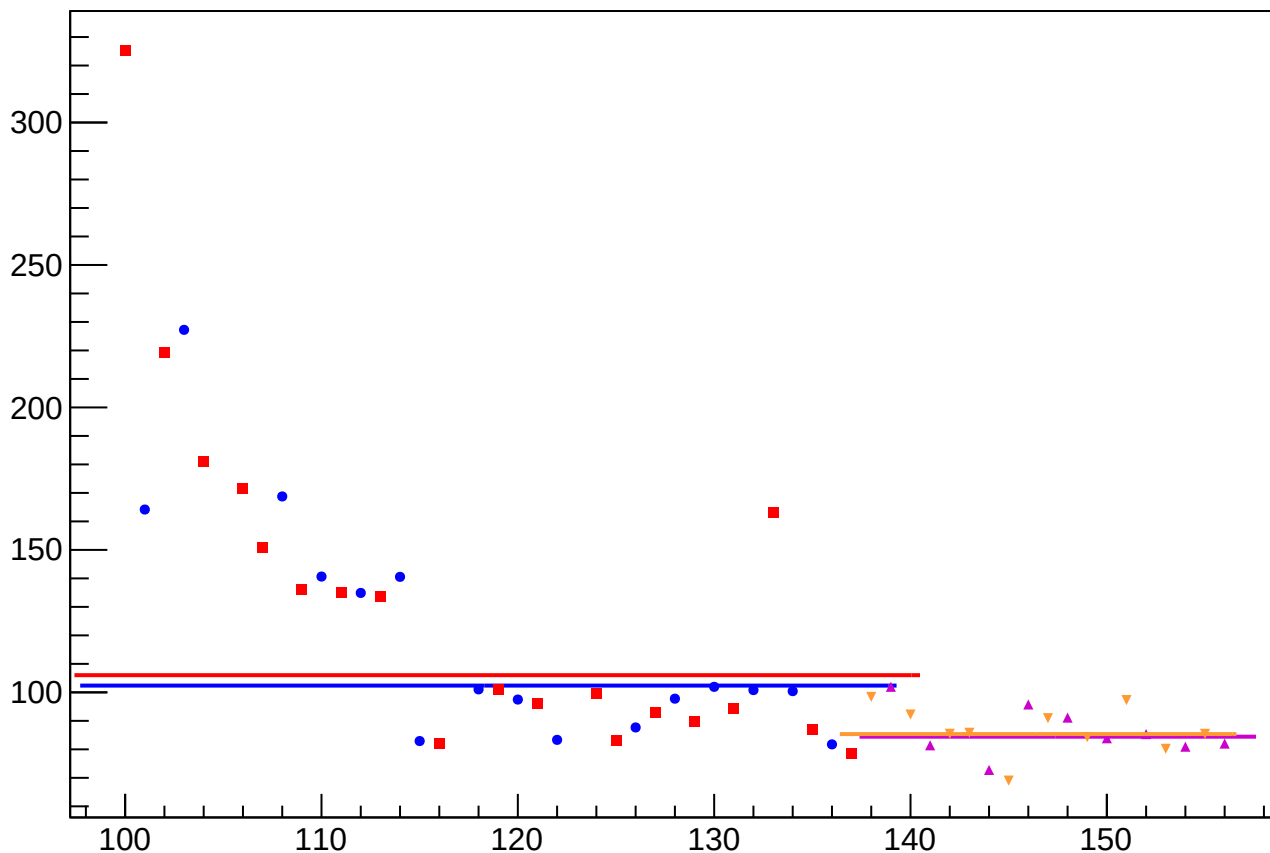
Right: 26.417 $\pm$ 28.632 χ^2/NDF : 42.0/34

In: 58.444 $\pm$ 24.411 χ^2/NDF :33.8/24

Out: 98.788 $\pm$ 24.777 χ^2/NDF :42.4/28

All: 78.316 $\pm$ 17.389 χ^2/NDF : 77.5/53

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: 85.359 $\pm$ 0.022 χ^2 /NDF:155800.9/9

Right Out: 106.032 $\pm$ 0.029 χ^2 /NDF: 1191294.0/18

Left In: 84.448 $\pm$ 0.022 χ^2 /NDF:130942.5/8

Left: 84.900 $\pm$ 0.015 χ^2 /NDF: 287610.6/18

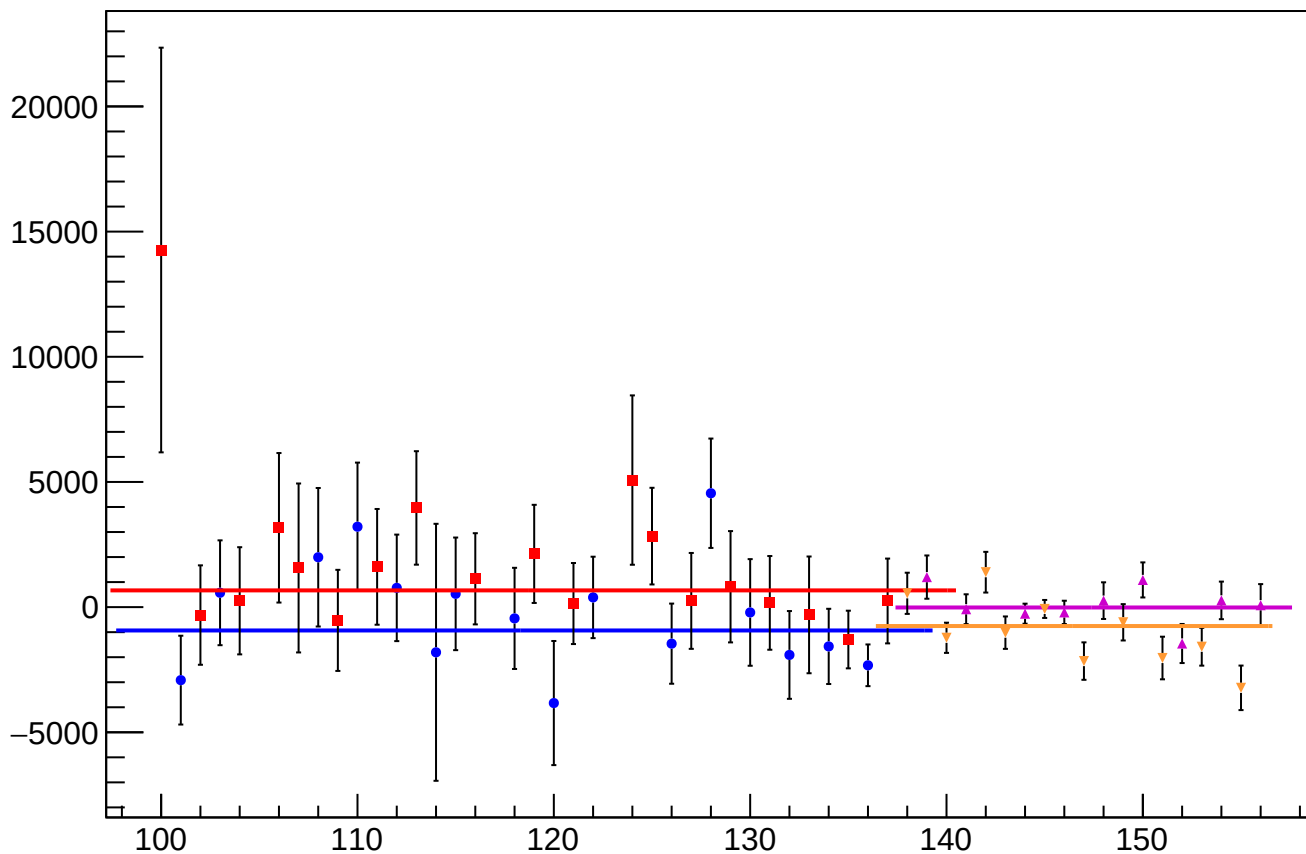
Right: 104.155 $\pm$ 0.020 χ^2 /NDF: 2181742.7/34

In: 91.143 $\pm$ 0.017 χ^2 /NDF:1365733.6/24

Out: 92.887 $\pm$ 0.018 χ^2 /NDF:1669476.7/28

All: 92.002 $\pm$ 0.012 χ^2 /NDF: 3040239.3/53

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: -755.458+/-204.280 χ^2/NDF : 28.6/9

Right Out: 668.521+/-463.213 χ^2/NDF : 13.5/18

Left In: -14.270+/-205.150 χ^2/NDF : 8.7/8

Left: -386.440+/-144.754 χ^2/NDF : 43.9/18

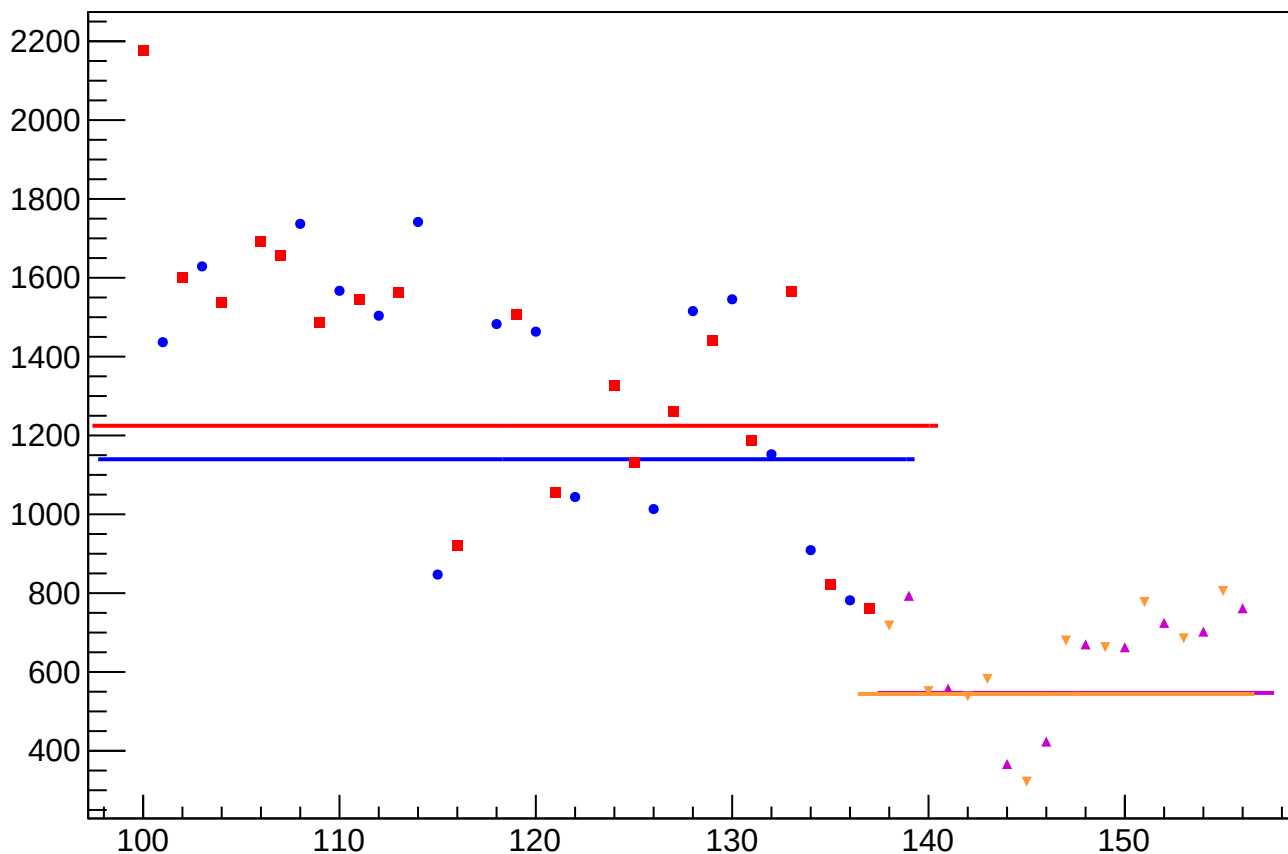
Right: -168.117+/-320.052 χ^2/NDF : 38.2/34

In: -176.561+/-186.137 χ^2/NDF : 30.7/24

Out: -523.606+/-186.911 χ^2/NDF : 50.0/28

All: -349.364+/-131.892 χ^2/NDF : 82.4/53

asym_sam_3726_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1139.658 $\pm$ 0.313 χ^2 /NDF: 1093410.3/15

Left Out: 544.199 $\pm$ 0.144 χ^2 /NDF:1375886.6/9

Right Out: 1224.637 $\pm$ 0.328 χ^2 /NDF: 922388.4/18

Left In: 546.896 $\pm$ 0.145 χ^2 /NDF:1141584.4/8

Left: 545.542 $\pm$ 0.102 χ^2 /NDF: 2517644.5/18

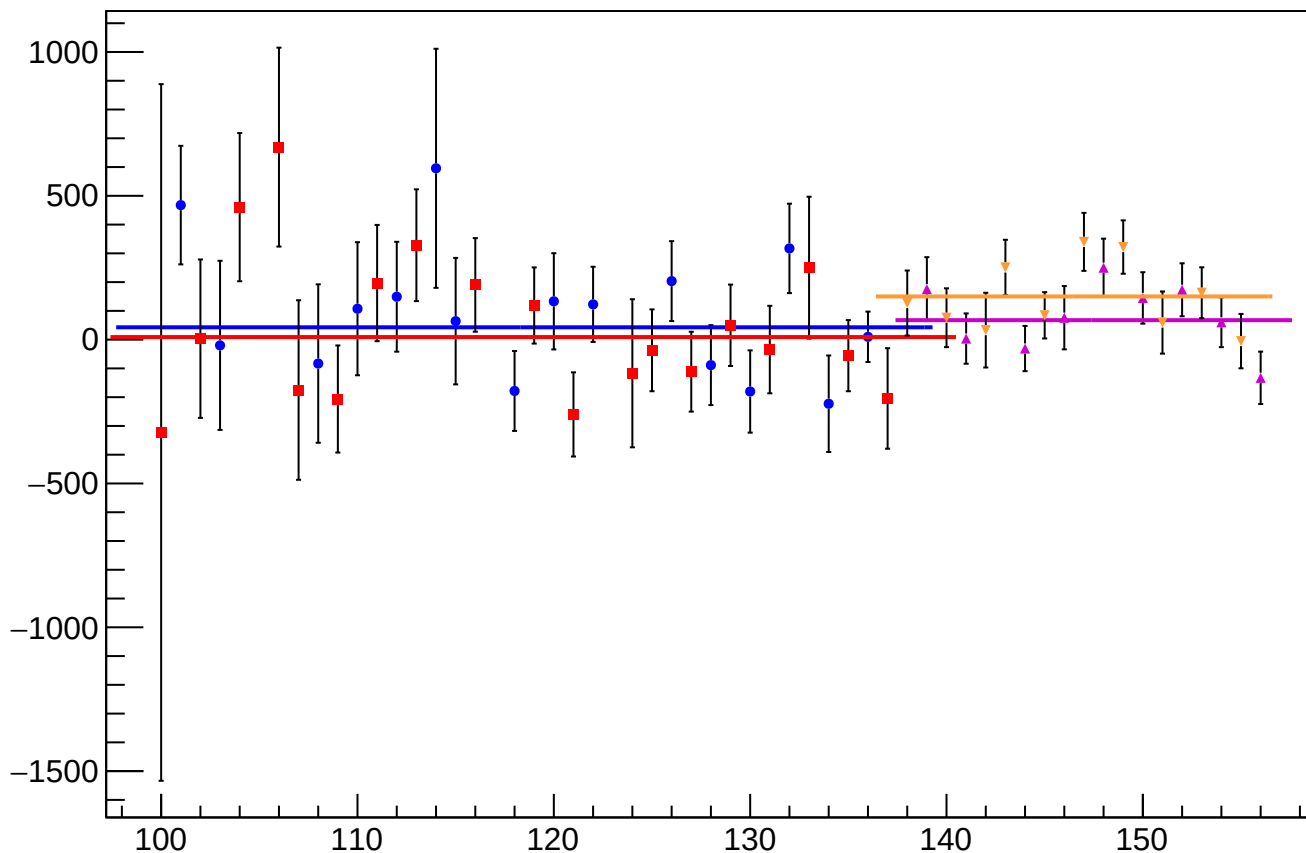
Right: 1180.226 $\pm$ 0.226 χ^2 /NDF: 2050976.5/34

In: 651.676 $\pm$ 0.132 χ^2 /NDF:5186519.8/24

Out: 654.988 $\pm$ 0.132 χ^2 /NDF:5911245.7/28

All: 653.325 $\pm$ 0.093 χ^2 /NDF: 11098080.8/53

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: 150.217 $\pm$ 31.073 χ^2 /NDF:13.5/9

Right Out: 8.986 $\pm$ 41.060 χ^2 /NDF: 21.3/18

Left In: 67.698 $\pm$ 30.839 χ^2 /NDF:13.2/8

Left: 108.646 $\pm$ 21.889 χ^2 /NDF: 30.3/18

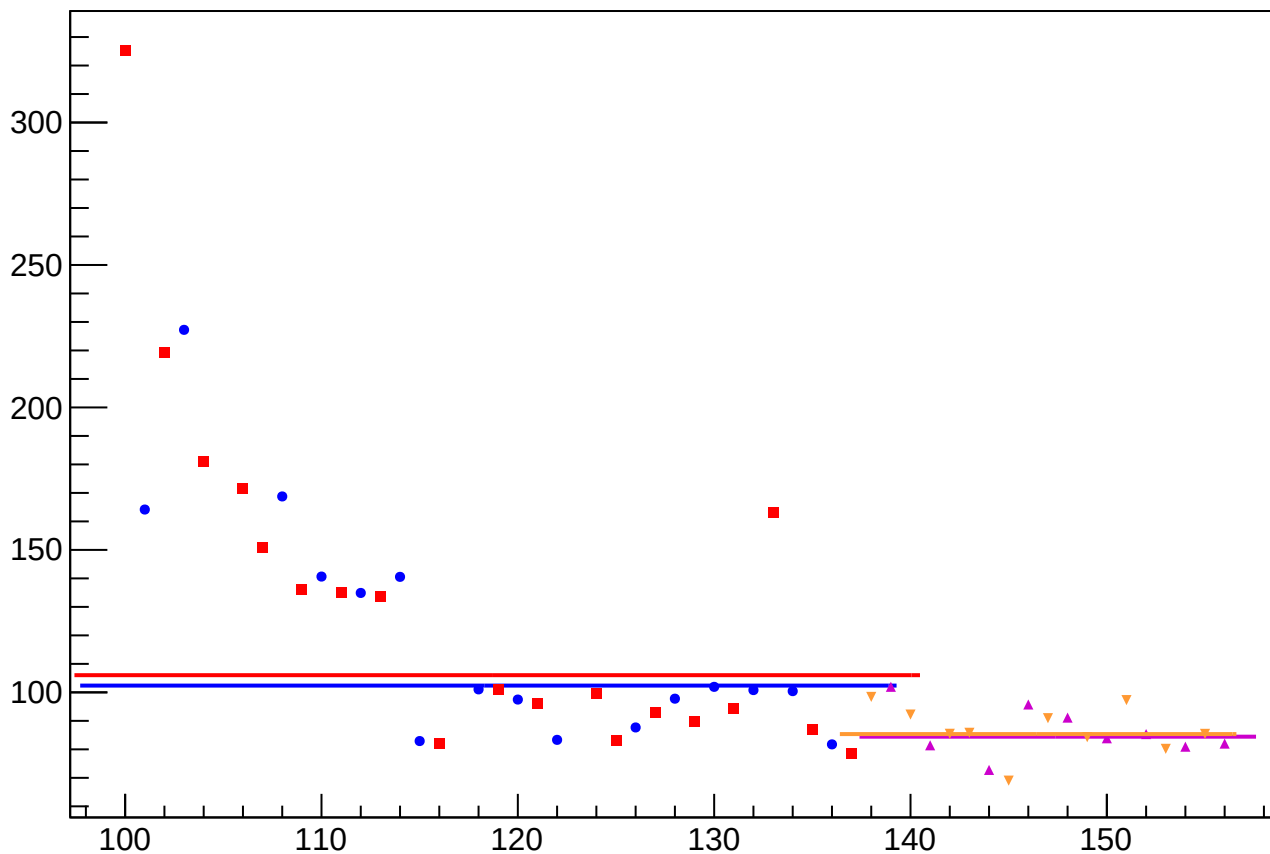
Right: 26.416 $\pm$ 28.632 χ^2 /NDF: 42.0/34

In: 58.443 $\pm$ 24.411 χ^2 /NDF:33.8/24

Out: 98.787 $\pm$ 24.778 χ^2 /NDF:42.4/28

All: 78.315 $\pm$ 17.389 χ^2 /NDF: 77.5/53

eigen_dit_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 102.378 ± 0.028 $\chi^2/\text{NDF}: 982307.0/15$

Left Out: 85.360 ± 0.022 $\chi^2/\text{NDF}: 155793.3/9$

Right Out: 106.032 ± 0.029 $\chi^2/\text{NDF}: 1191296.9/18$

Left In: 84.448 ± 0.022 $\chi^2/\text{NDF}: 130940.7/8$

Left: 84.900 ± 0.015 $\chi^2/\text{NDF}: 287601.3/18$

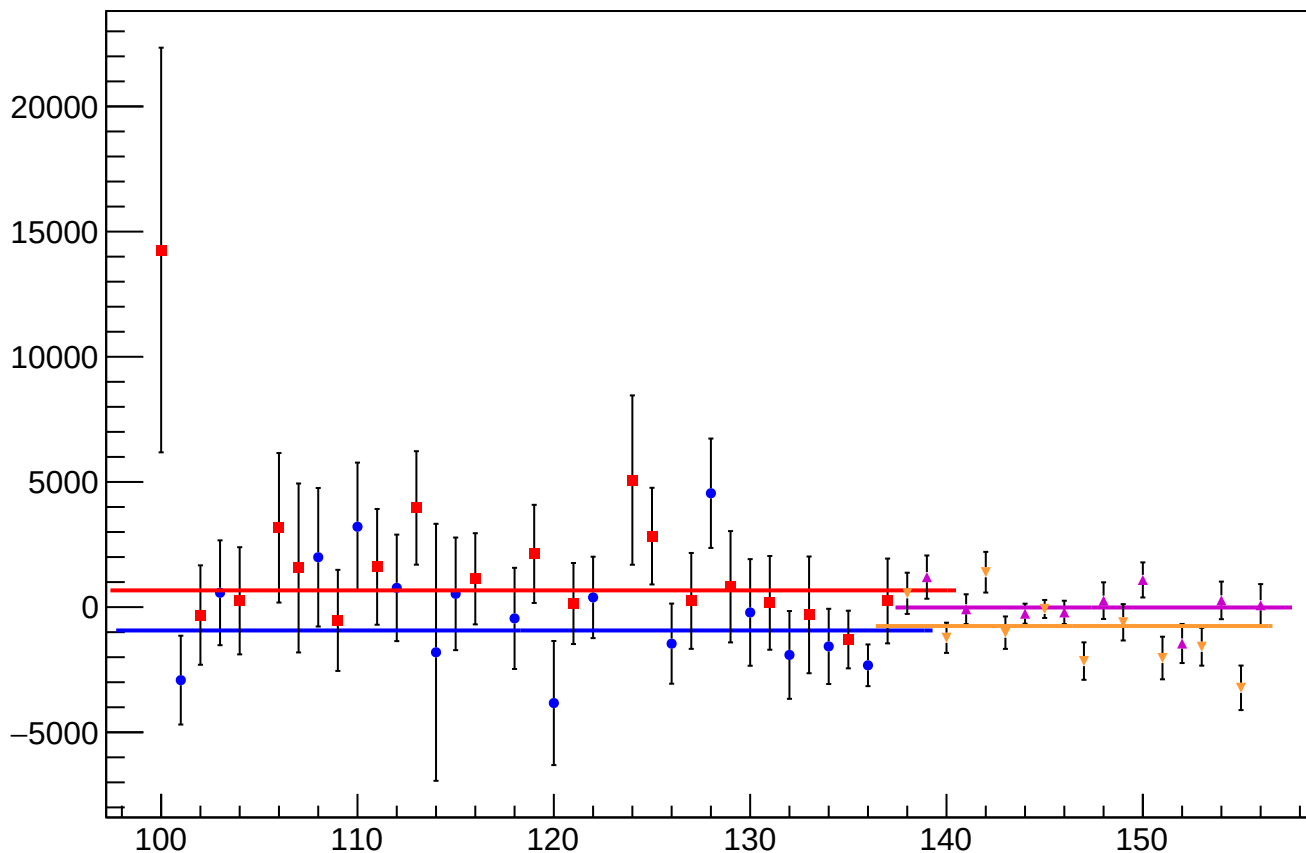
Right: 104.155 ± 0.020 $\chi^2/\text{NDF}: 2181741.7/34$

In: 91.143 ± 0.017 $\chi^2/\text{NDF}: 1365710.1/24$

Out: 92.888 ± 0.018 $\chi^2/\text{NDF}: 1669454.9/28$

All: 92.003 ± 0.012 $\chi^2/\text{NDF}: 3040194.5/53$

asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -932.377+/-442.724 χ^2/NDF : 18.5/15

Left Out: -755.458+/-204.279 χ^2/NDF : 28.6/9

Right Out: 668.522+/-463.212 χ^2/NDF : 13.5/18

Left In: -14.270+/-205.150 χ^2/NDF : 8.7/8

Left: -386.440+/-144.754 χ^2/NDF : 43.9/18

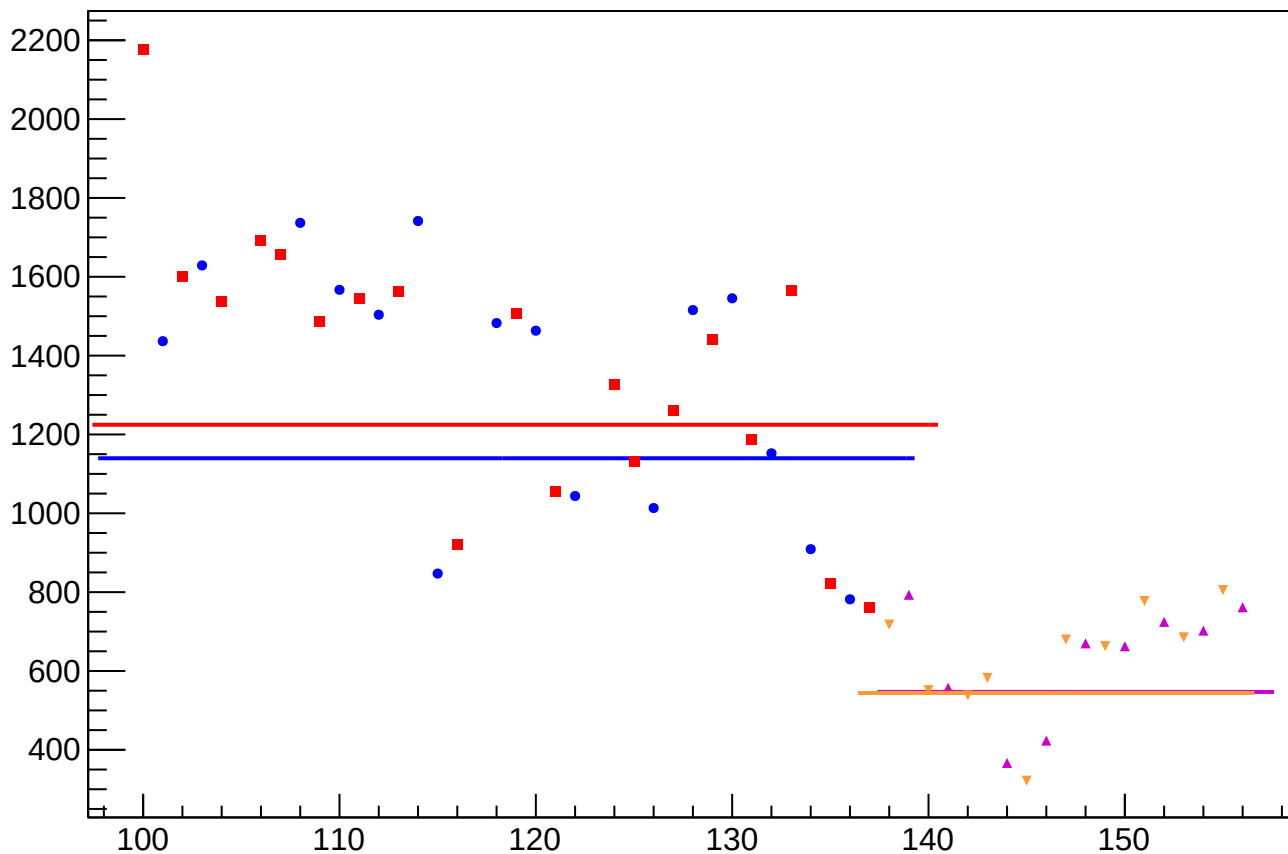
Right: -168.114+/-320.051 χ^2/NDF : 38.2/34

In: -176.561+/-186.137 χ^2/NDF : 30.7/24

Out: -523.605+/-186.910 χ^2/NDF : 50.0/28

All: -349.363+/-131.891 χ^2/NDF : 82.4/53

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: 544.198 $\pm$ 0.144 χ^2/NDF :1375903.5/9

Right Out: 1224.635 $\pm$ 0.328 χ^2/NDF : 922378.0/18

Left In: 546.895 $\pm$ 0.145 χ^2/NDF :1141590.5/8

Left: 545.541 $\pm$ 0.102 χ^2/NDF : 2517667.6/18

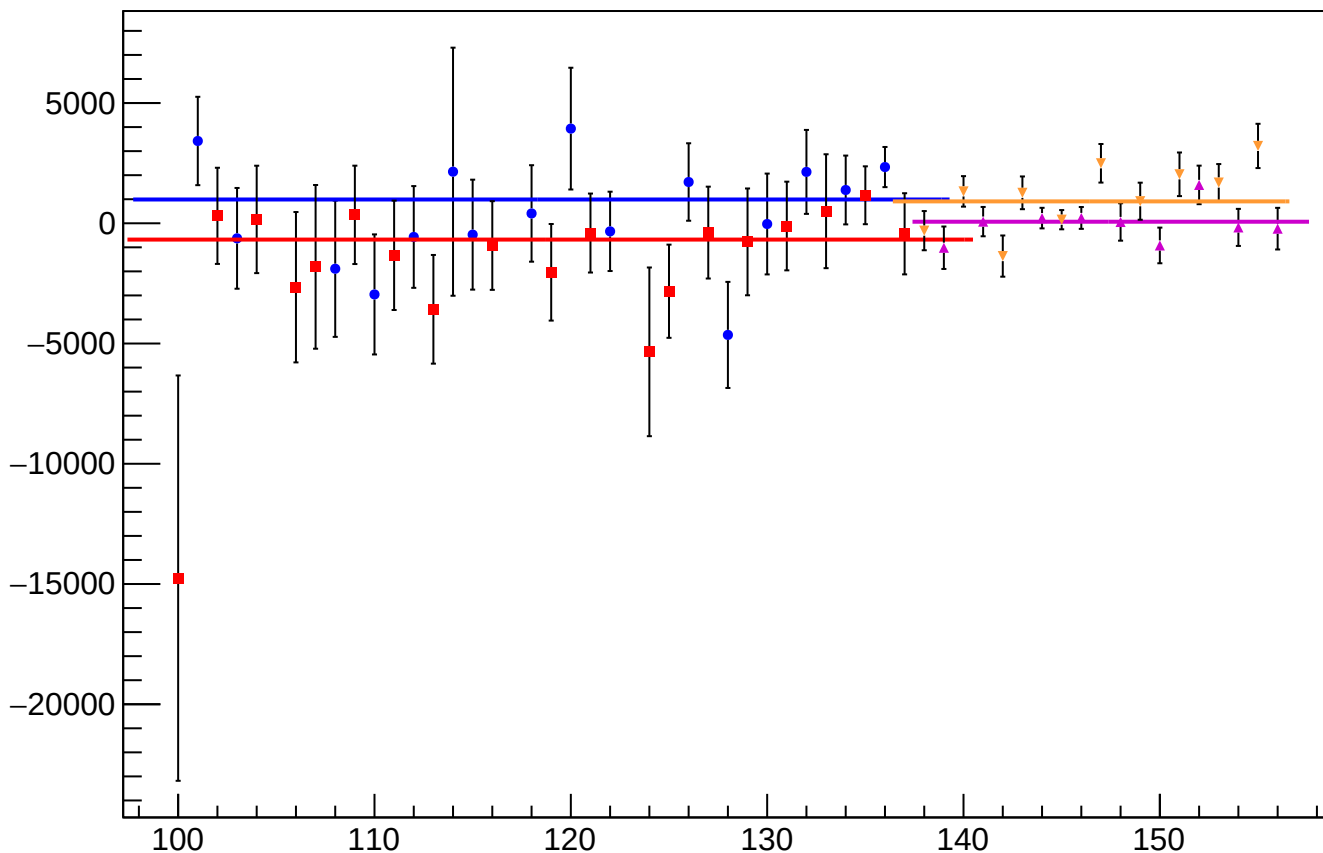
Right: 1180.225 $\pm$ 0.226 χ^2/NDF : 2050952.9/34

In: 651.675 $\pm$ 0.132 χ^2/NDF :5186516.8/24

Out: 654.987 $\pm$ 0.132 χ^2/NDF :5911261.8/28

All: 653.324 $\pm$ 0.093 χ^2/NDF : 11098093.8/53

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 989.322 $\pm$ 442.634 χ^2 /NDF: 19.0/15

Left Out: 910.309 $\pm$ 217.764 χ^2 /NDF:26.4/9

Right Out: -677.628 $\pm$ 469.652 χ^2 /NDF: 11.9/18

Left In: 64.708 $\pm$ 211.535 χ^2 /NDF:7.4/8

Left: 475.243 $\pm$ 151.732 χ^2 /NDF: 41.5/18

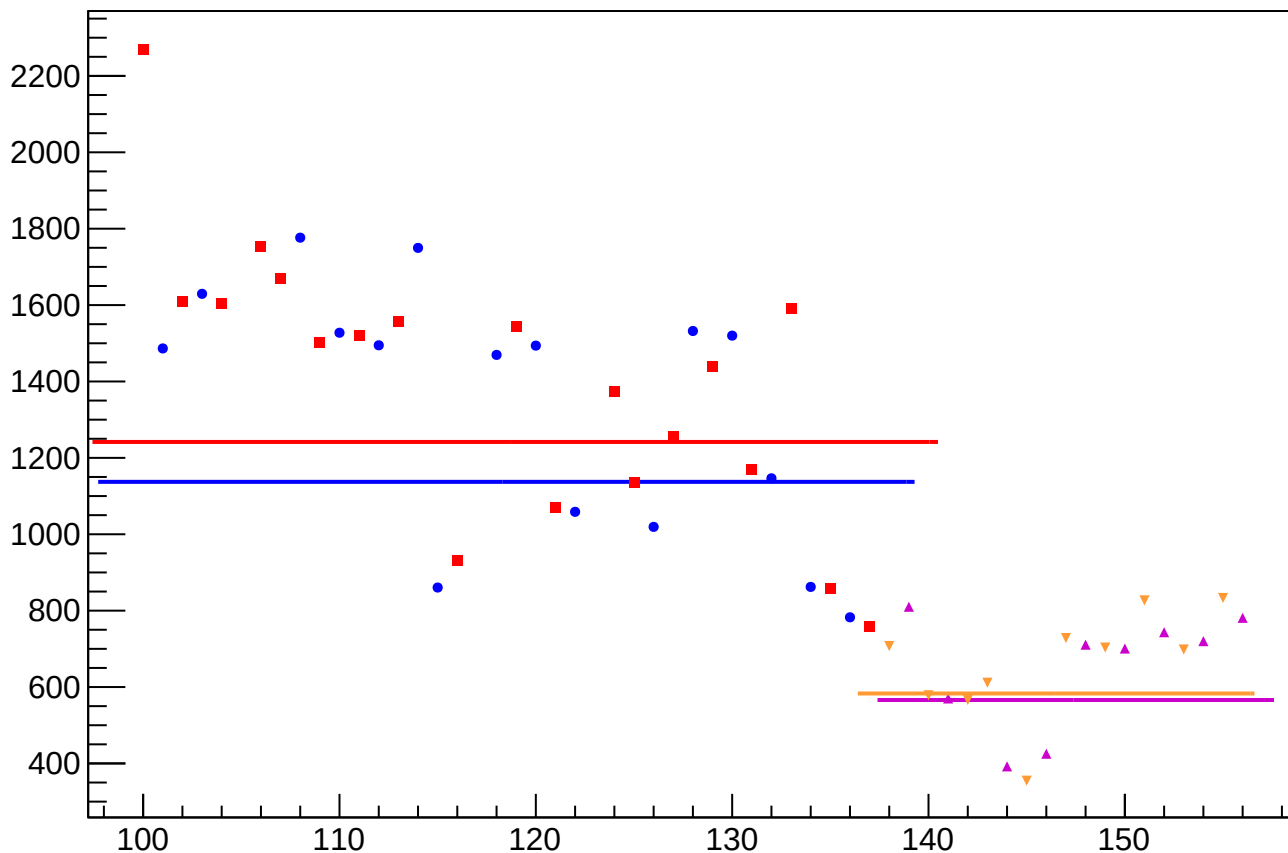
Right: 205.171 $\pm$ 322.118 χ^2 /NDF: 37.6/34

In: 236.618 $\pm$ 190.860 χ^2 /NDF:30.0/24

Out: 629.326 $\pm$ 197.560 χ^2 /NDF:47.7/28

All: 426.200 $\pm$ 137.266 χ^2 /NDF: 79.7/53

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1137.220 $\pm$ 0.313 χ^2 /NDF: 1123685.6/15

Left Out: 583.118 $\pm$ 0.154 χ^2 /NDF: 1153918.9/9

Right Out: 1241.709 $\pm$ 0.332 χ^2 /NDF: 899417.9/18

Left In: 566.077 $\pm$ 0.150 χ^2 /NDF: 1112866.5/8

Left: 574.350 $\pm$ 0.107 χ^2 /NDF: 2273086.5/18

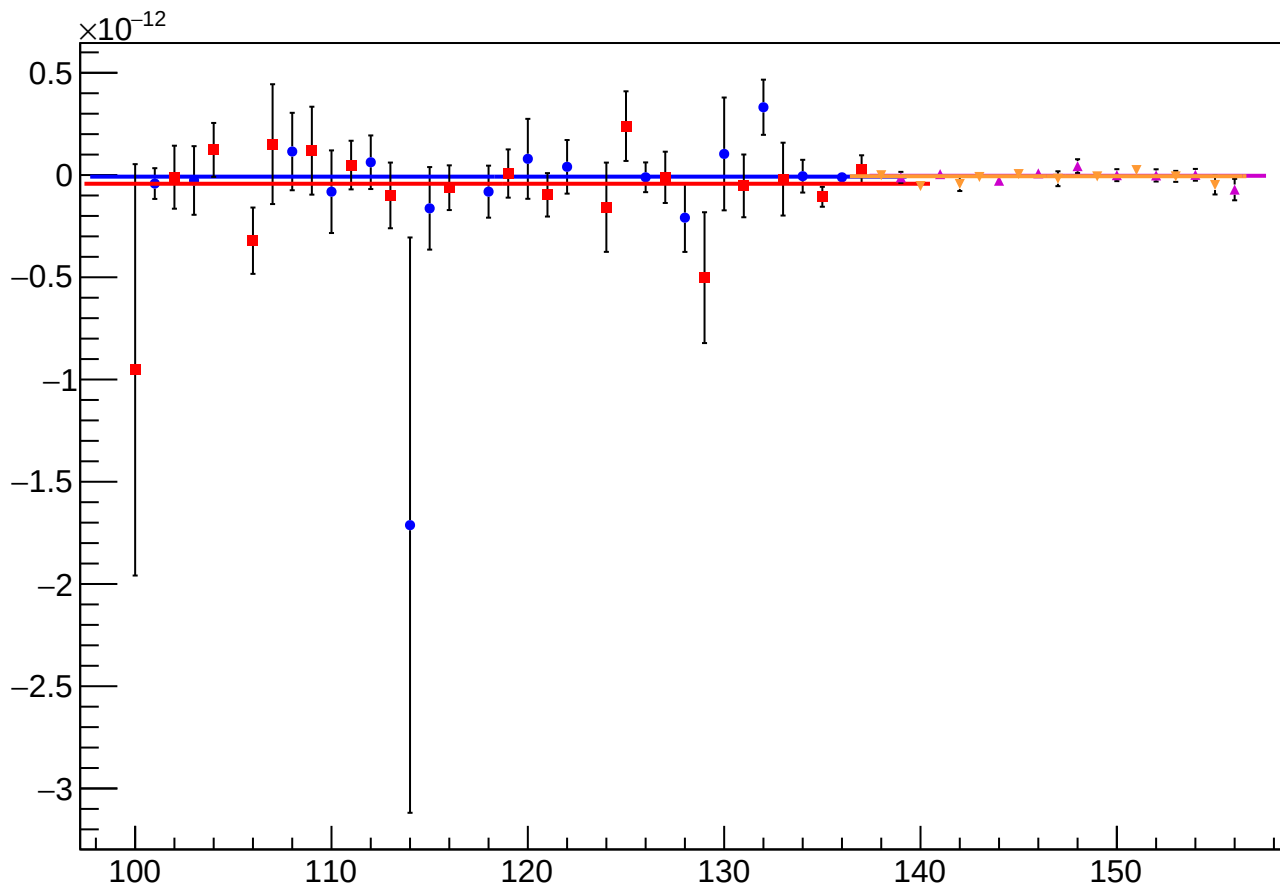
Right: 1186.373 $\pm$ 0.228 χ^2 /NDF: 2075531.5/34

In: 672.267 $\pm$ 0.135 χ^2 /NDF: 4947323.6/24

Out: 699.654 $\pm$ 0.140 χ^2 /NDF: 5290296.7/28

All: 685.489 $\pm$ 0.097 χ^2 /NDF: 10257500.2/53

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:12.5/9

Right Out: -0.000+/-0.000 χ^2 /NDF: 15.5/18

Left In: -0.000+/-0.000 χ^2 /NDF:6.6/8

Left: -0.000+/-0.000 χ^2 /NDF: 19.1/18

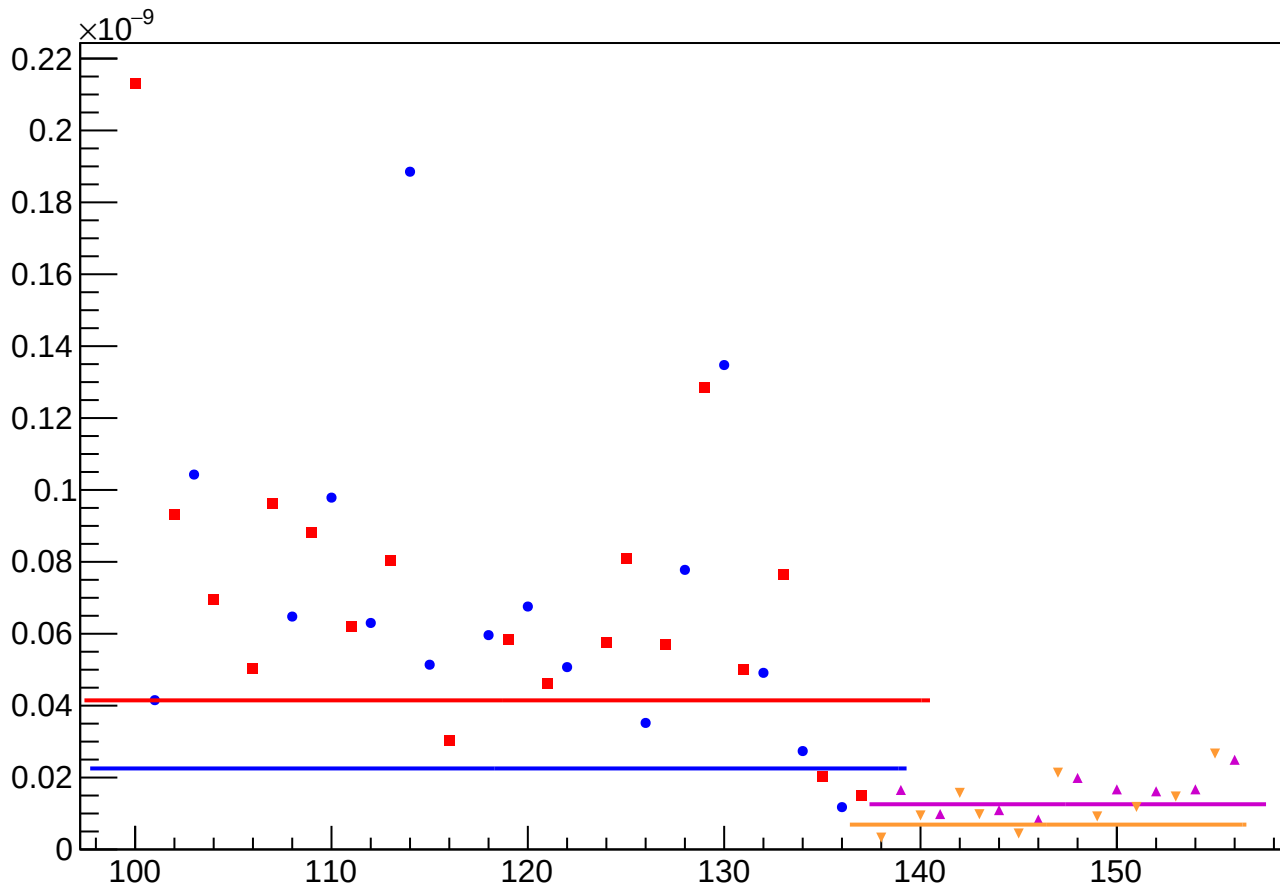
Right: -0.000+/-0.000 χ^2 /NDF: 28.4/34

In: -0.000+/-0.000 χ^2 /NDF:18.4/24

Out: -0.000+/-0.000 χ^2 /NDF:29.8/28

All: -0.000+/-0.000 χ^2 /NDF: 48.3/53

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 :1583204.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1847735.6/18

Left In: 0.000+/-0.000 χ^2/NDF :566121.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2867191.5/18

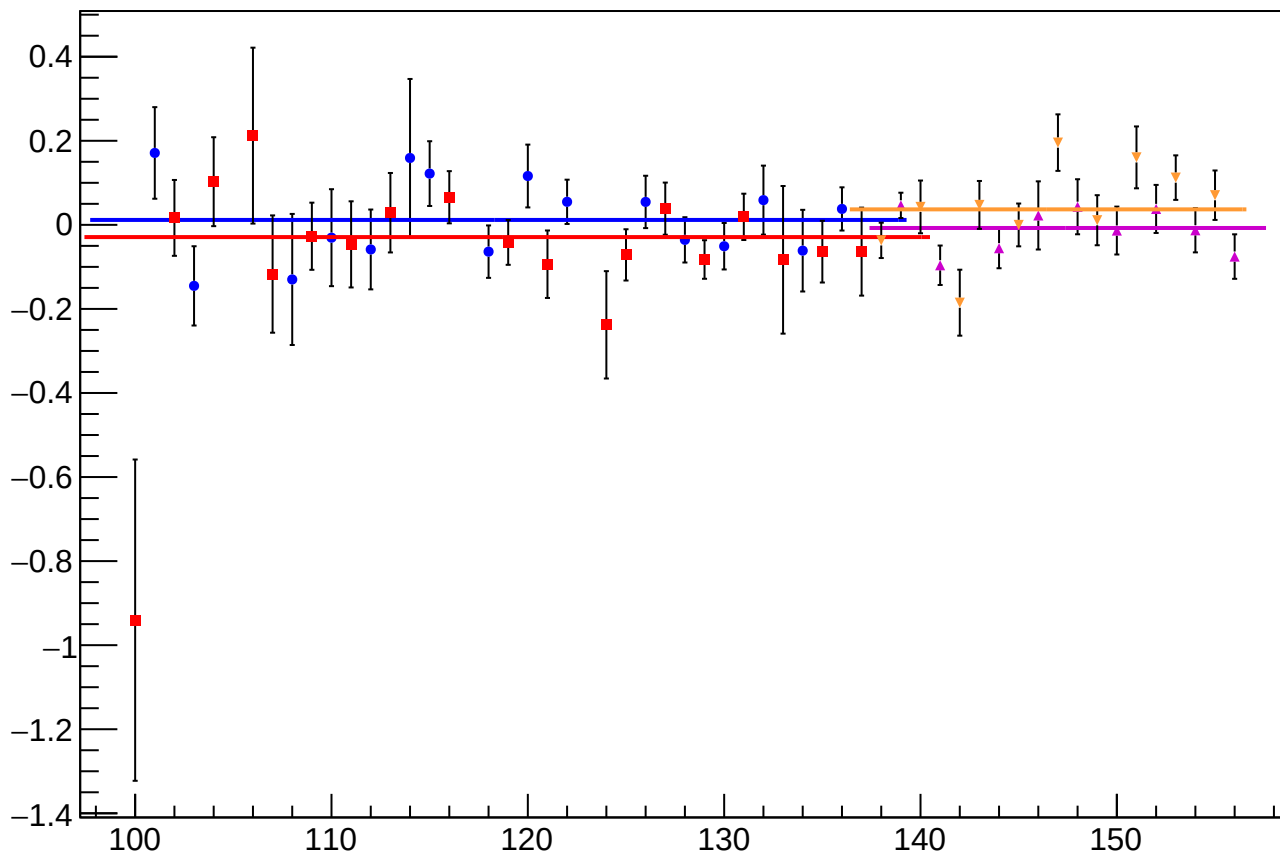
Right: 0.000+/-0.000 χ^2/NDF : 5394567.7/34

In: 0.000+/-0.000 χ^2/NDF :3966740.7/24

Out: 0.000+/-0.000 χ^2/NDF :6569861.5/28

All: 0.000+/-0.000 χ^2/NDF : 11475108.6/53

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: 0.037 ± 0.018 $\chi^2/\text{NDF}: 22.6/9$

Right Out: -0.029 ± 0.018 $\chi^2/\text{NDF}: 19.5/18$

Left In: -0.007 ± 0.016 $\chi^2/\text{NDF}: 10.8/8$

Left: 0.012 ± 0.012 $\chi^2/\text{NDF}: 36.7/18$

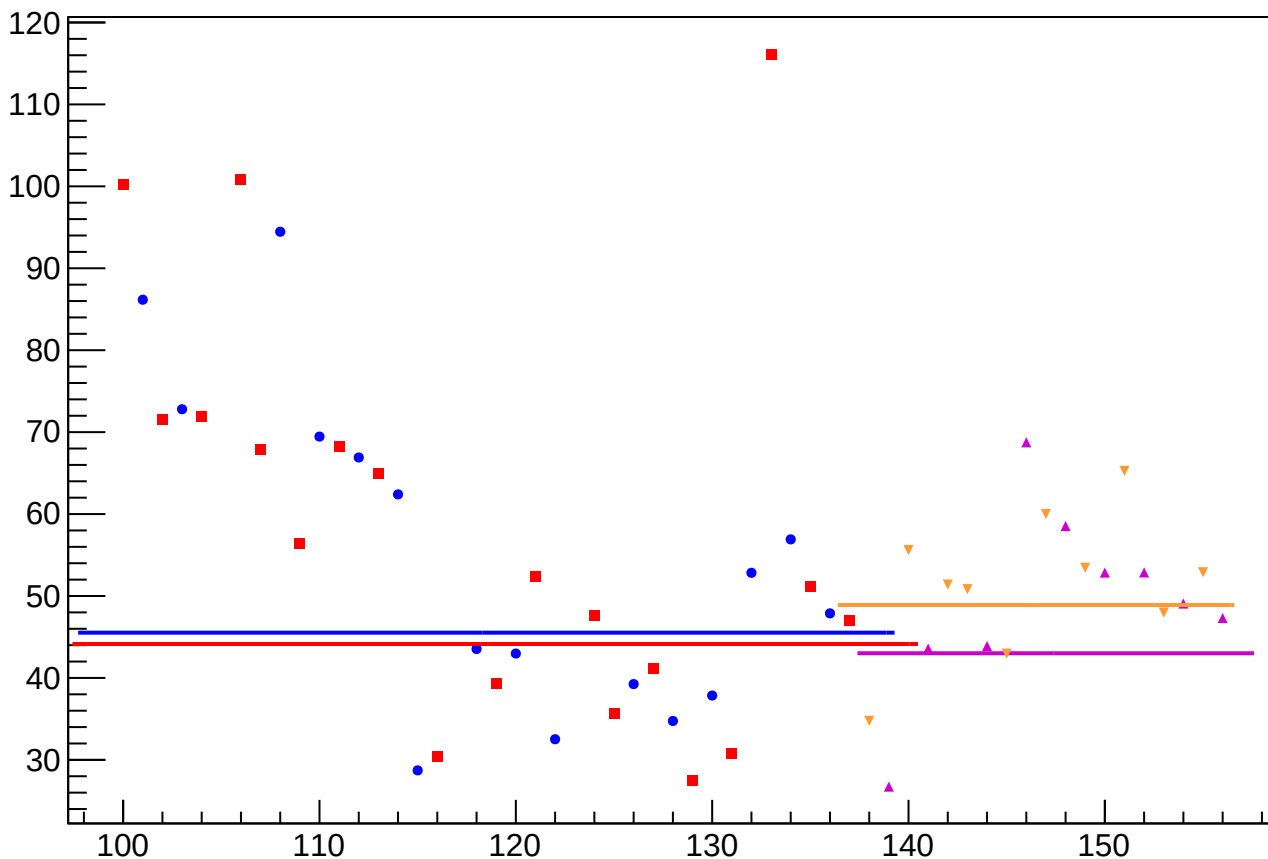
Right: -0.009 ± 0.013 $\chi^2/\text{NDF}: 38.9/34$

In: 0.001 ± 0.012 $\chi^2/\text{NDF}: 28.3/24$

Out: 0.003 ± 0.013 $\chi^2/\text{NDF}: 48.8/28$

All: 0.002 ± 0.009 $\chi^2/\text{NDF}: 77.1/53$

asym_sam_3726_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2 /NDF: 1253967.4/15

Left Out: 48.898 $\pm$ 0.013 χ^2 /NDF: 455504.4/9

Right Out: 44.141 $\pm$ 0.013 χ^2 /NDF: 1743430.9/18

Left In: 43.013 $\pm$ 0.012 χ^2 /NDF: 1058542.0/8

Left: 45.647 $\pm$ 0.009 χ^2 /NDF: 1629174.5/18

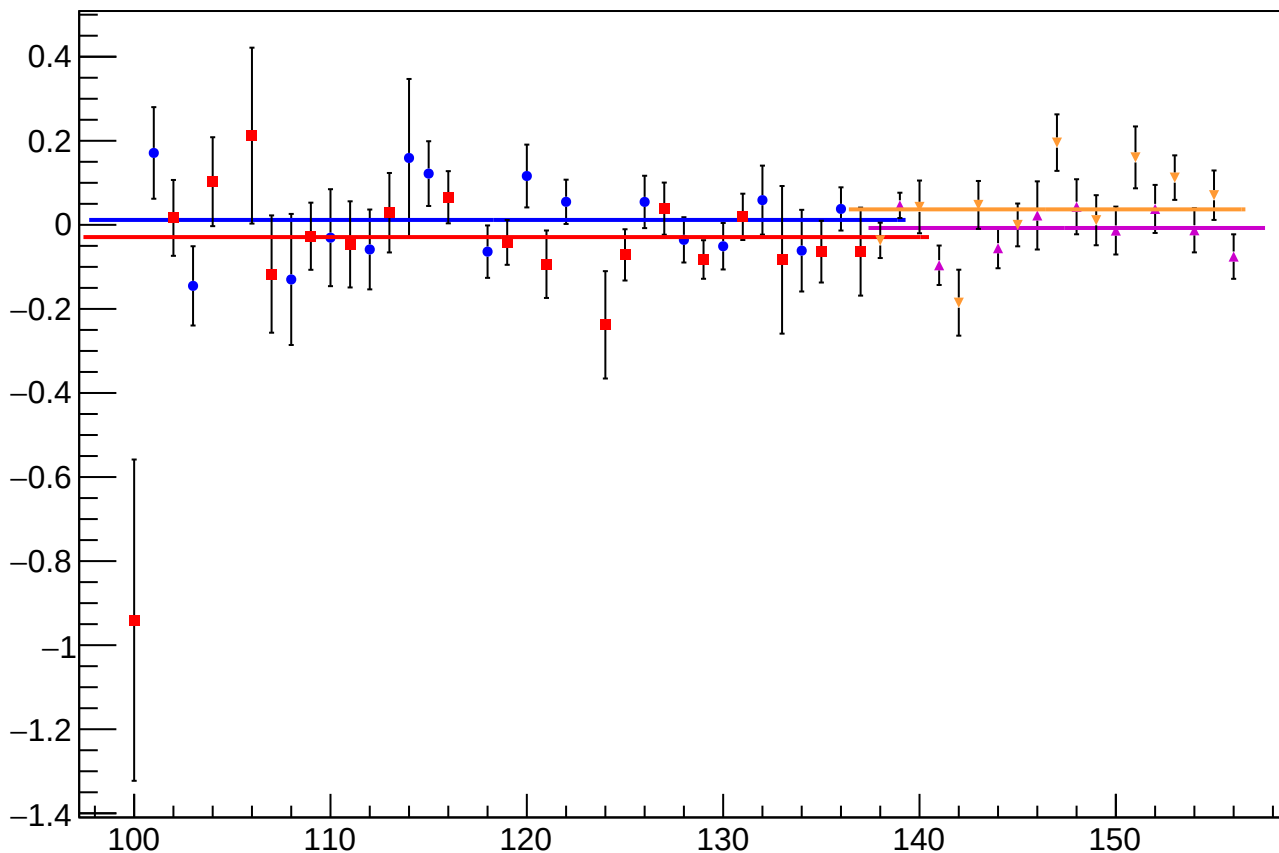
Right: 44.816 $\pm$ 0.009 χ^2 /NDF: 3003242.5/34

In: 44.131 $\pm$ 0.009 χ^2 /NDF: 2333364.9/24

Out: 46.474 $\pm$ 0.009 χ^2 /NDF: 2268345.1/28

All: 45.252 $\pm$ 0.006 χ^2 /NDF: 4636840.5/53

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: 0.037 $\pm$ 0.018 χ^2 /NDF:22.6/9

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: -0.007 $\pm$ 0.016 χ^2 /NDF:10.8/8

Left: 0.012 $\pm$ 0.012 χ^2 /NDF: 36.7/18

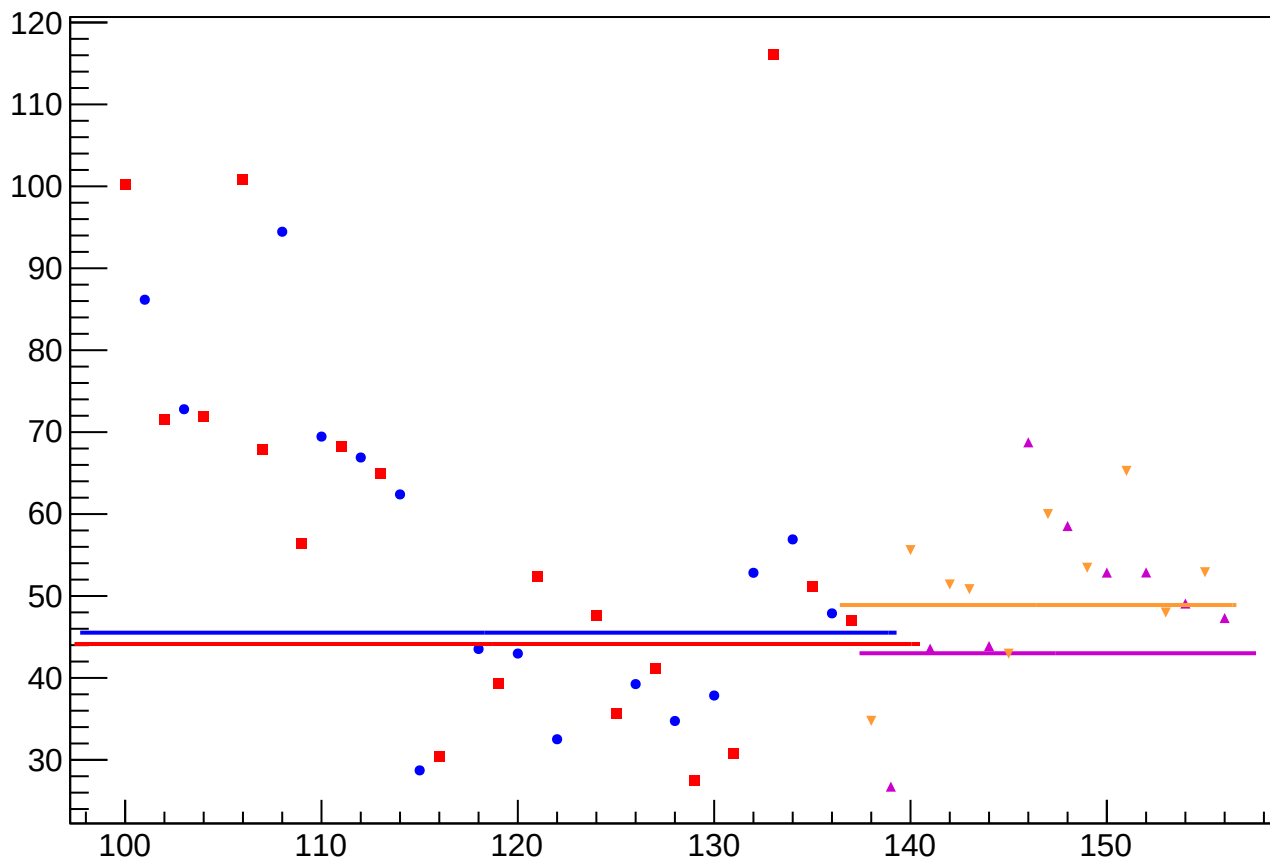
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.001 $\pm$ 0.012 χ^2 /NDF:28.3/24

Out: 0.003 $\pm$ 0.013 χ^2 /NDF:48.8/28

All: 0.002 $\pm$ 0.009 χ^2 /NDF: 77.1/53

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2 /NDF: 1253967.4/15

Left Out: 48.898 $\pm$ 0.013 χ^2 /NDF: 455504.4/9

Right Out: 44.141 $\pm$ 0.013 χ^2 /NDF: 1743430.9/18

Left In: 43.013 $\pm$ 0.012 χ^2 /NDF: 1058542.0/8

Left: 45.647 $\pm$ 0.009 χ^2 /NDF: 1629174.5/18

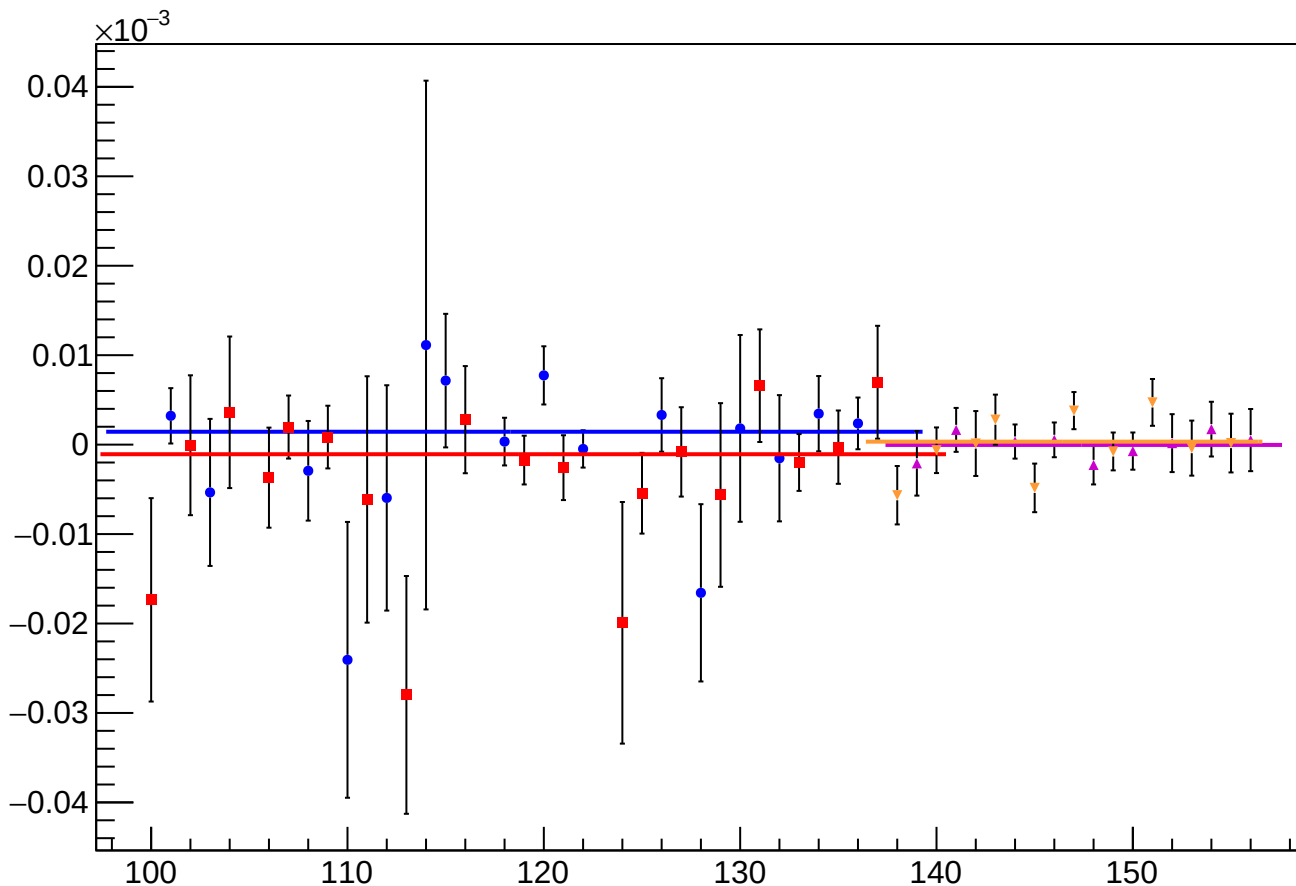
Right: 44.816 $\pm$ 0.009 χ^2 /NDF: 3003242.5/34

In: 44.131 $\pm$ 0.009 χ^2 /NDF: 2333364.9/24

Out: 46.474 $\pm$ 0.009 χ^2 /NDF: 2268345.1/28

All: 45.252 $\pm$ 0.006 χ^2 /NDF: 4636840.5/53

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:13.8/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:2.4/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.4/18

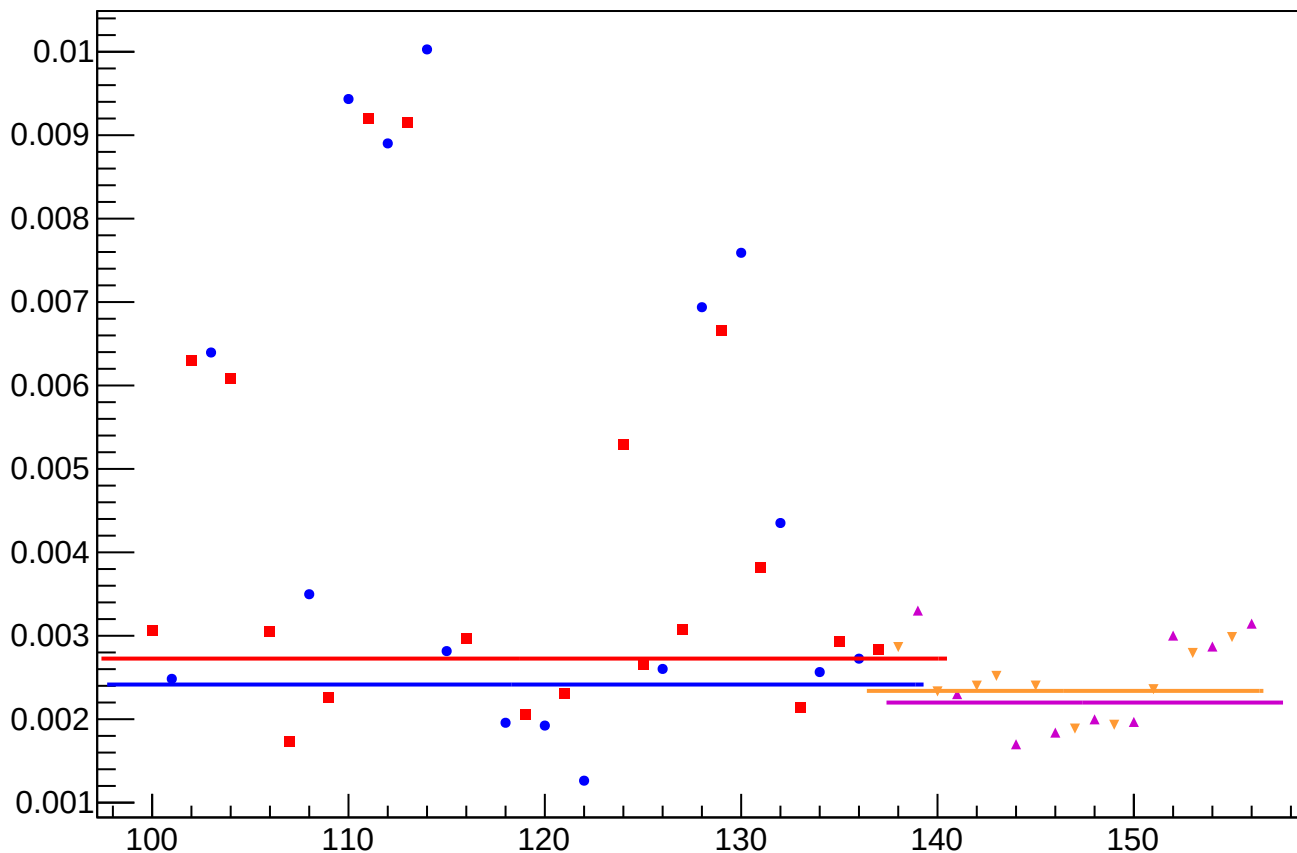
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 31.7/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:17.9/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:29.7/28

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 48.1/53

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: 0.002+/-0.000 χ^2/NDF :351226.8/9

Right Out: 0.003+/-0.000 χ^2/NDF : 2505080.1/18

Left In: 0.002+/-0.000 χ^2/NDF :805175.5/8

Left: 0.002+/-0.000 χ^2/NDF : 1184713.3/18

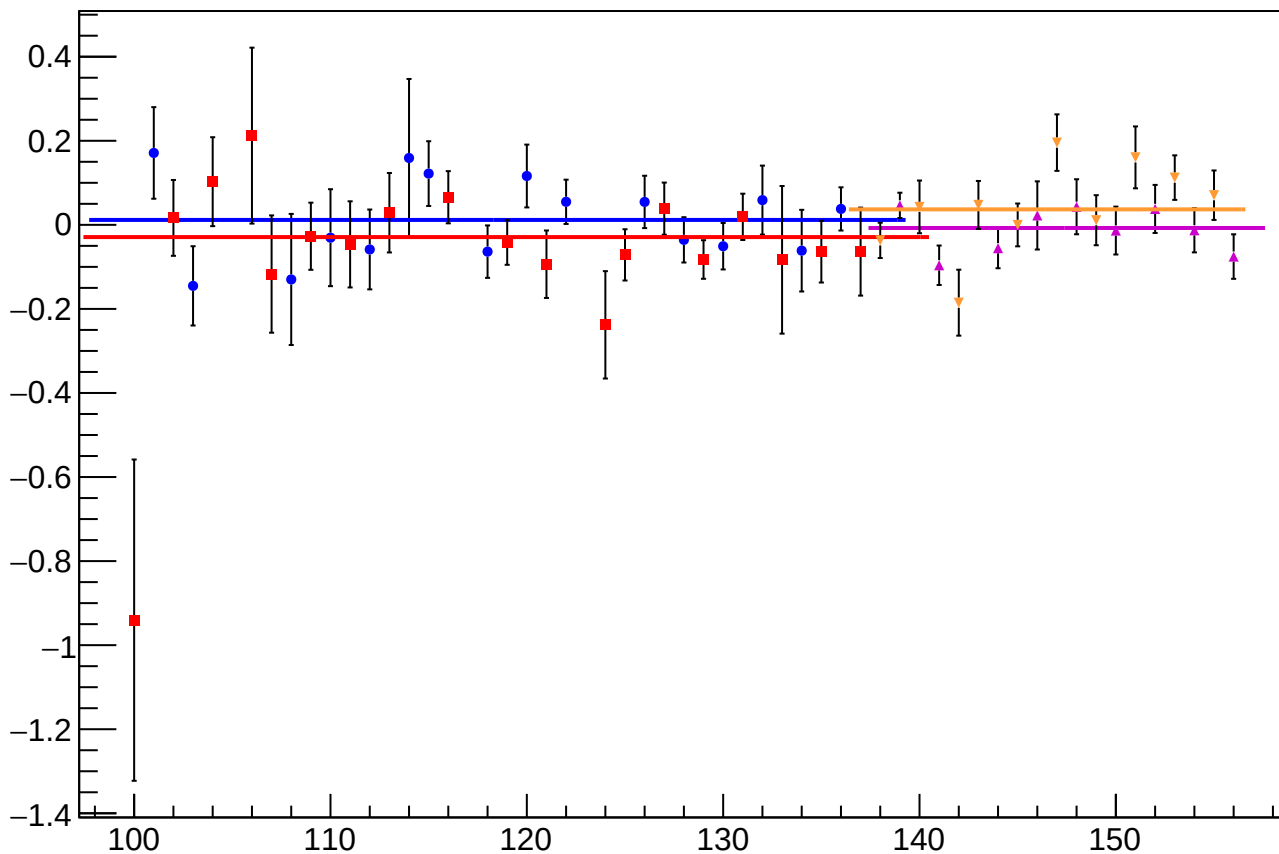
Right: 0.003+/-0.000 χ^2/NDF : 6019731.5/34

In: 0.002+/-0.000 χ^2/NDF :4290700.5/24

Out: 0.002+/-0.000 χ^2/NDF :3007736.8/28

All: 0.002+/-0.000 χ^2/NDF : 7389514.5/53

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: 0.037 $\pm$ 0.018 χ^2 /NDF:22.6/9

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: -0.007 $\pm$ 0.016 χ^2 /NDF:10.8/8

Left: 0.012 $\pm$ 0.012 χ^2 /NDF: 36.7/18

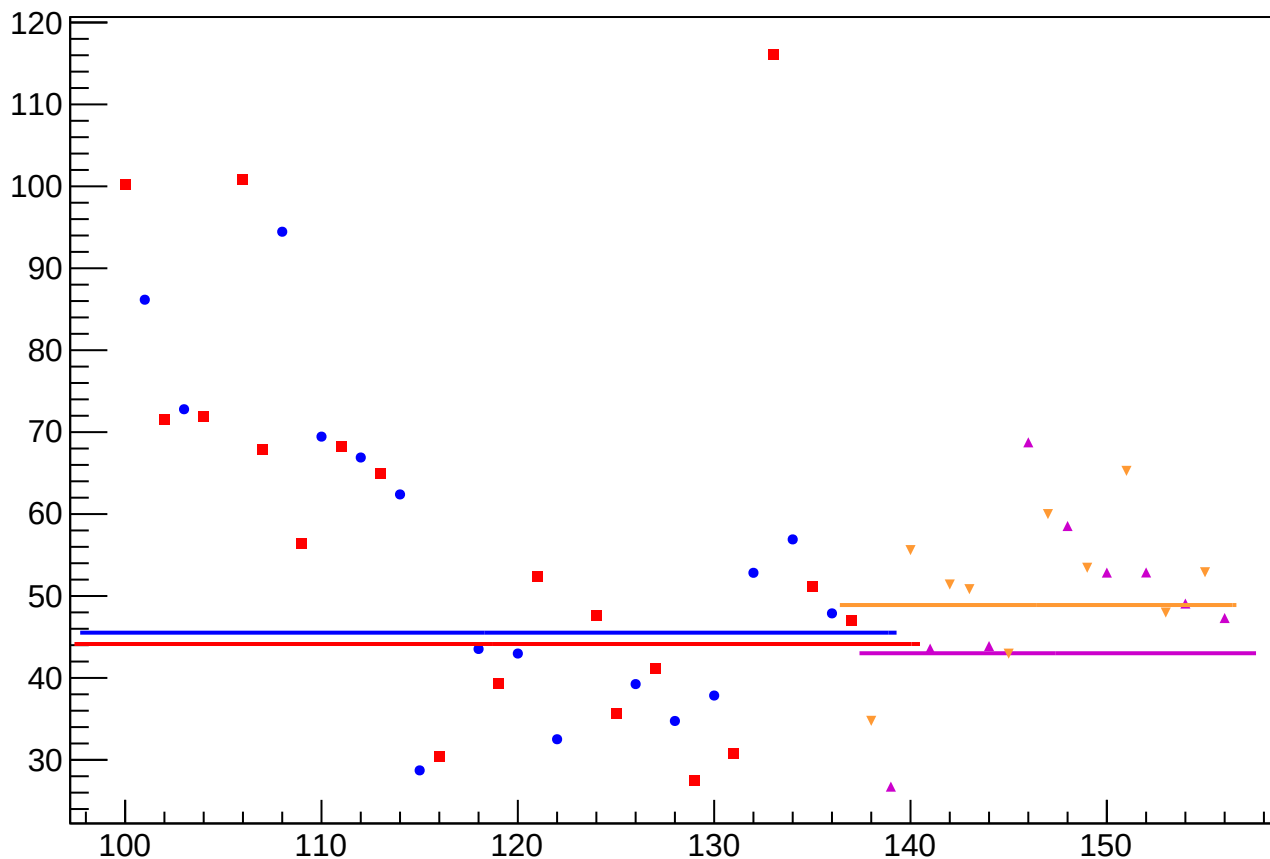
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.001 $\pm$ 0.012 χ^2 /NDF:28.3/24

Out: 0.003 $\pm$ 0.013 χ^2 /NDF:48.8/28

All: 0.002 $\pm$ 0.009 χ^2 /NDF: 77.1/53

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: 48.898+/-0.013 χ^2/NDF : 455528.9/9

Right Out: 44.141+/-0.013 χ^2/NDF : 1743351.0/18

Left In: 43.014+/-0.012 χ^2/NDF : 1058568.5/8

Left: 45.648+/-0.009 χ^2/NDF : 1629227.0/18

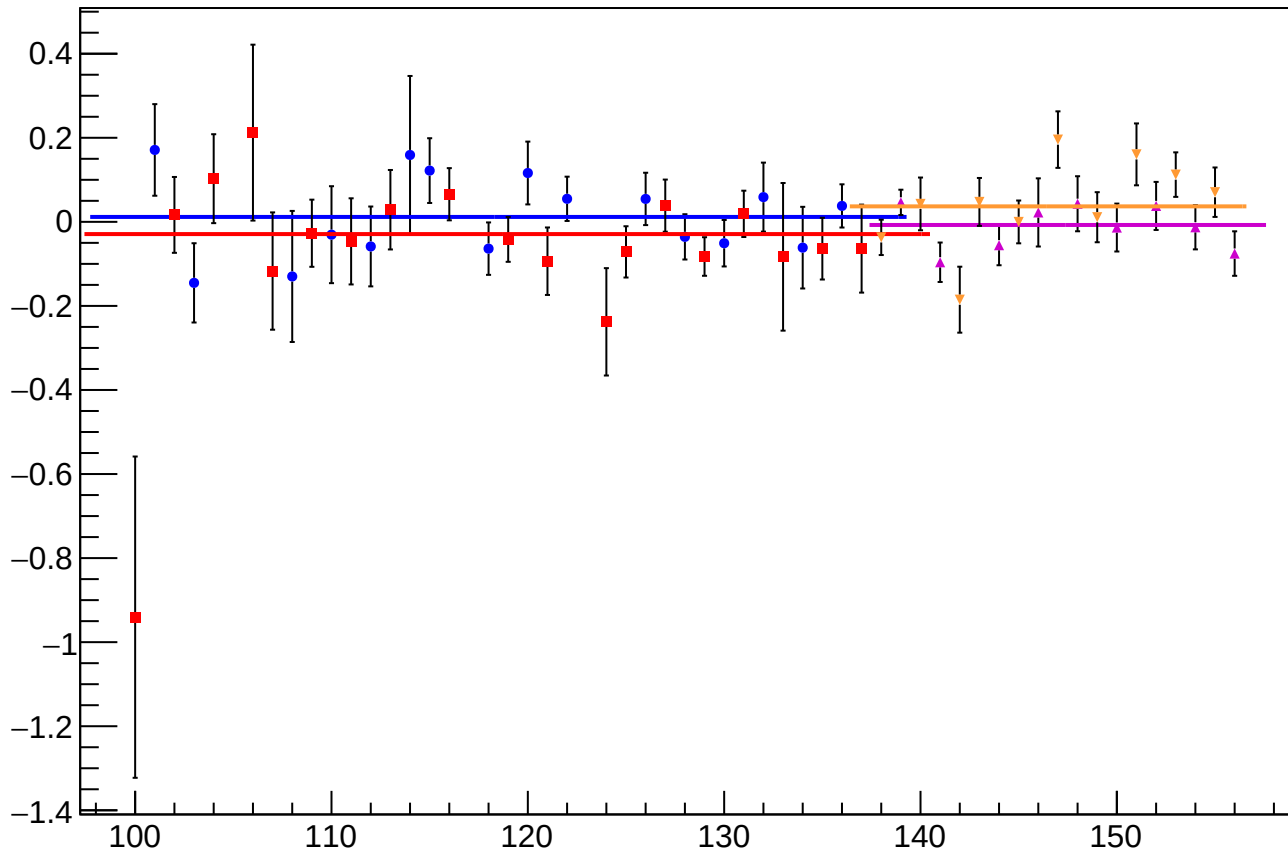
Right: 44.816+/-0.009 χ^2/NDF : 3003114.2/34

In: 44.132+/-0.009 χ^2/NDF : 2333340.8/24

Out: 46.474+/-0.009 χ^2/NDF : 2268289.8/28

All: 45.252+/-0.006 χ^2/NDF : 4636766.3/53

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: 0.037 $\pm$ 0.018 χ^2 /NDF:22.6/9

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: -0.007 $\pm$ 0.016 χ^2 /NDF:10.8/8

Left: 0.012 $\pm$ 0.012 χ^2 /NDF: 36.7/18

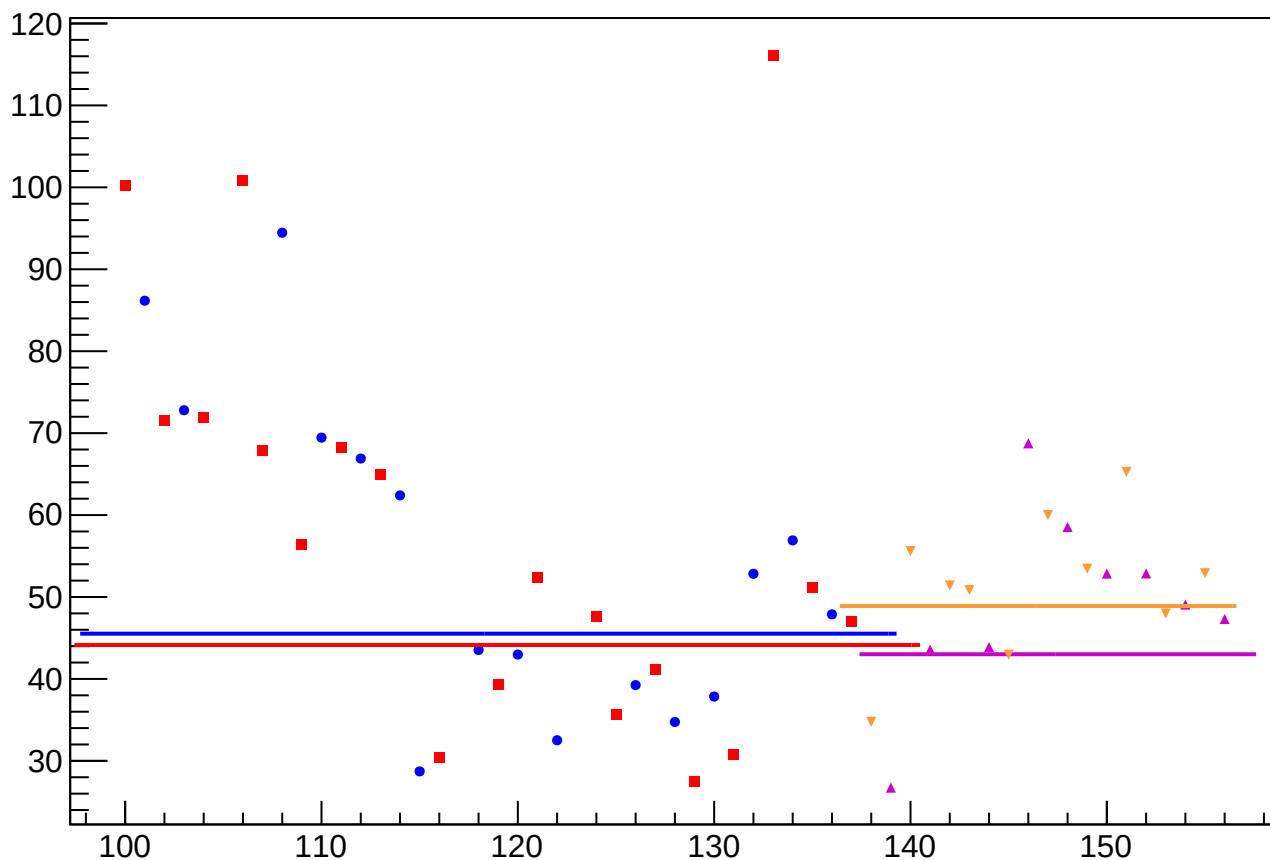
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.001 $\pm$ 0.012 χ^2 /NDF:28.3/24

Out: 0.003 $\pm$ 0.013 χ^2 /NDF:48.8/28

All: 0.002 $\pm$ 0.009 χ^2 /NDF: 77.1/53

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2/NDF : 1253922.0/15

Left Out: 48.898 $\pm$ 0.013 χ^2/NDF : 455528.9/9

Right Out: 44.141 $\pm$ 0.013 χ^2/NDF : 1743351.0/18

Left In: 43.014 $\pm$ 0.012 χ^2/NDF : 1058568.5/8

Left: 45.648 $\pm$ 0.009 χ^2/NDF : 1629227.0/18

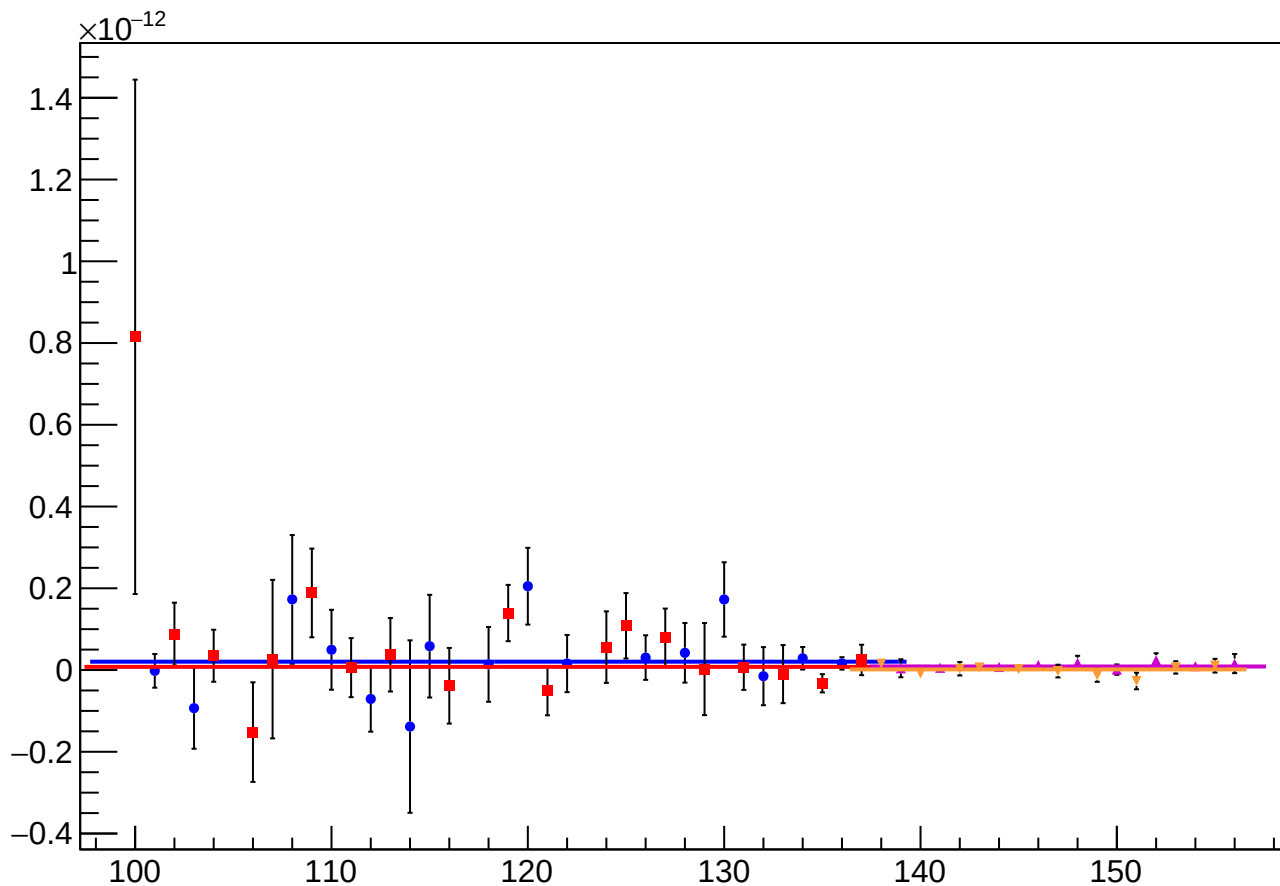
Right: 44.816 $\pm$ 0.009 χ^2/NDF : 3003114.2/34

In: 44.132 $\pm$ 0.009 χ^2/NDF : 2333340.8/24

Out: 46.474 $\pm$ 0.009 χ^2/NDF : 2268289.8/28

All: 45.252 $\pm$ 0.006 χ^2/NDF : 4636766.3/53

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 : 5.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 18.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.9/8

Left: 0.000+/-0.000 χ^2/NDF : 9.5/18

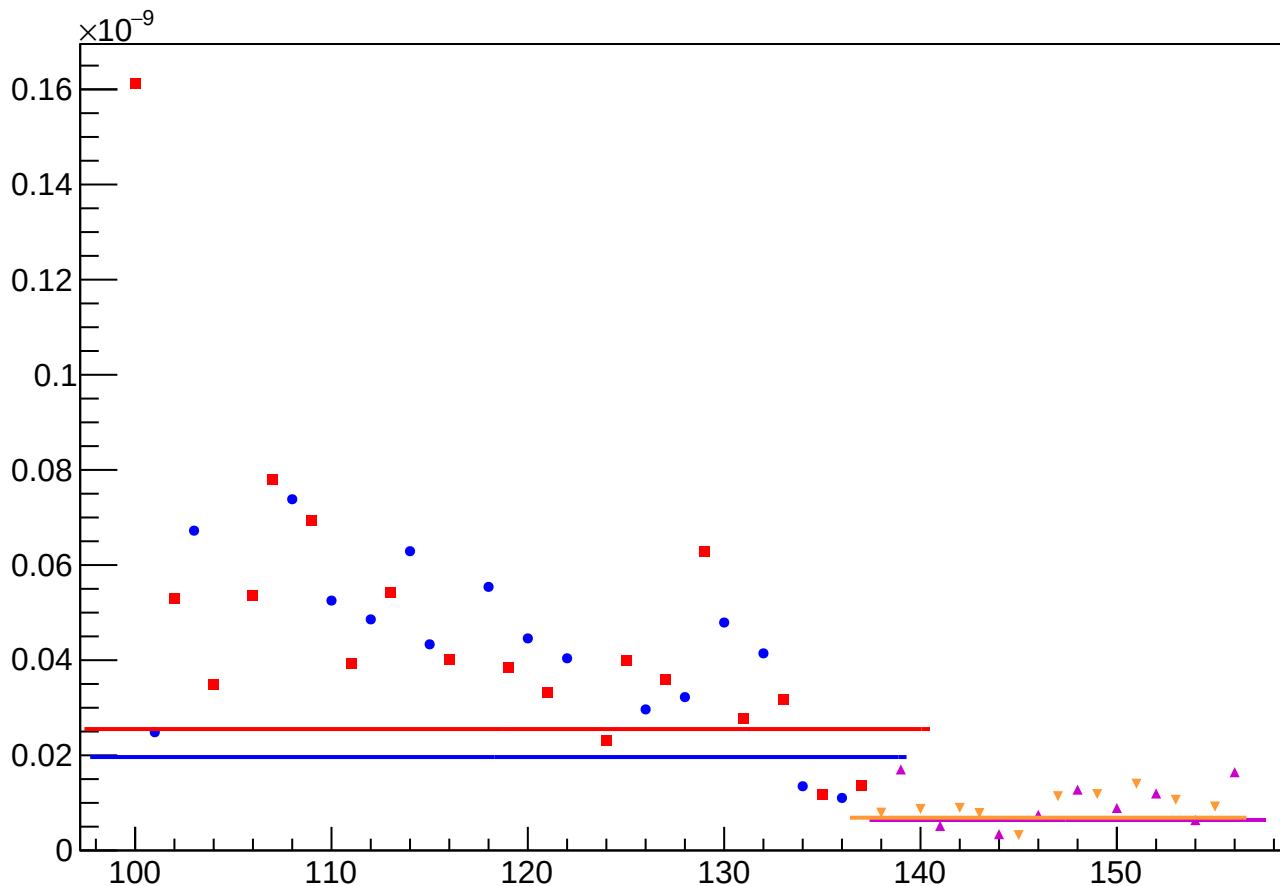
Right: 0.000+/-0.000 χ^2/NDF : 31.1/34

In: 0.000+/-0.000 χ^2/NDF : 14.7/24

Out: 0.000+/-0.000 χ^2/NDF : 24.5/28

All: 0.000+/-0.000 χ^2/NDF : 41.8/53

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 : 1743581.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2703953.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 2002628.1/8

Left: 0.000+/-0.000 χ^2/NDF : 3764262.4/18

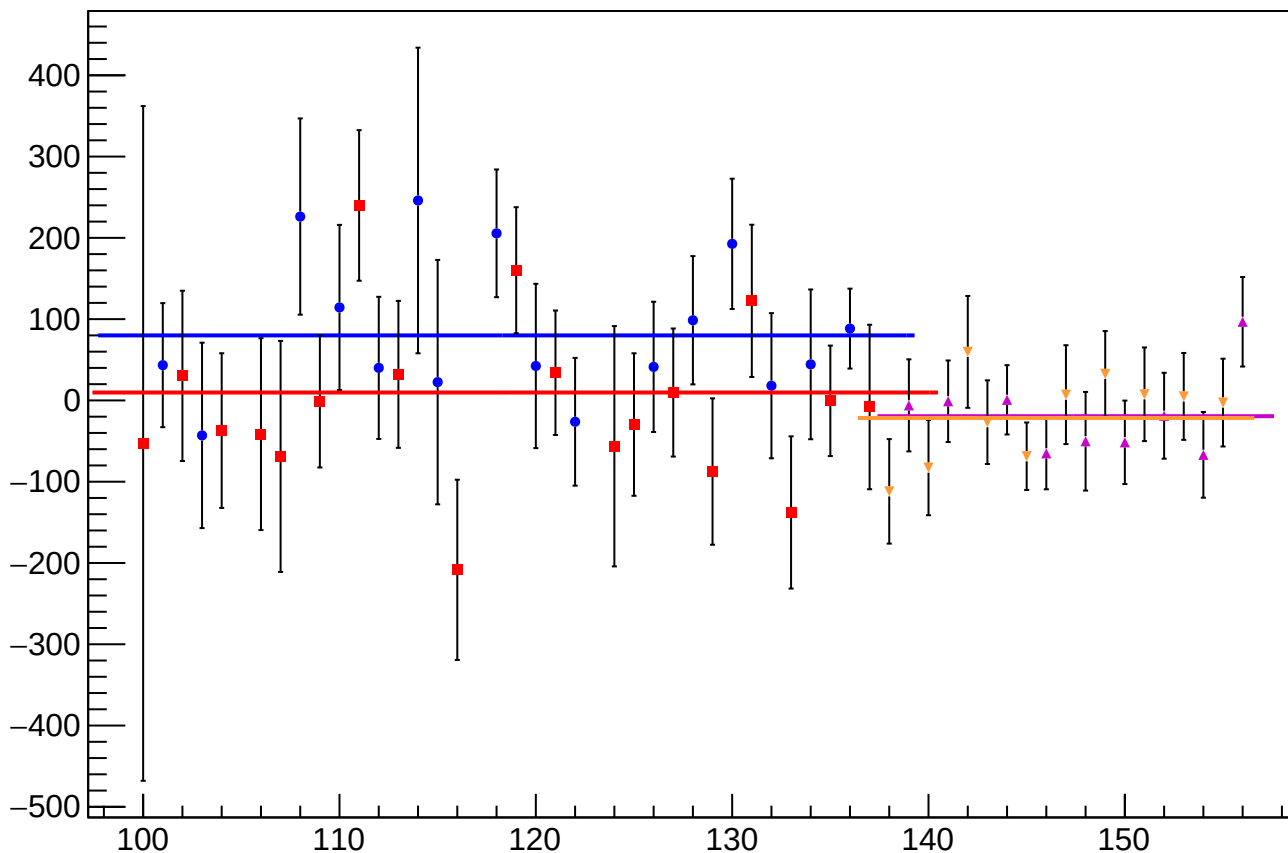
Right: 0.000+/-0.000 χ^2/NDF : 6166556.0/34

In: 0.000+/-0.000 χ^2/NDF : 7789868.5/24

Out: 0.000+/-0.000 χ^2/NDF : 7909677.0/28

All: 0.000+/-0.000 χ^2/NDF : 15718688.1/53

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: -21.569 $\pm$ 17.337 χ^2 /NDF: 7.7/9

Right Out: 9.730 $\pm$ 21.617 χ^2 /NDF: 20.3/18

Left In: -19.410 $\pm$ 16.977 χ^2 /NDF: 7.4/8

Left: -20.467 $\pm$ 12.130 χ^2 /NDF: 15.1/18

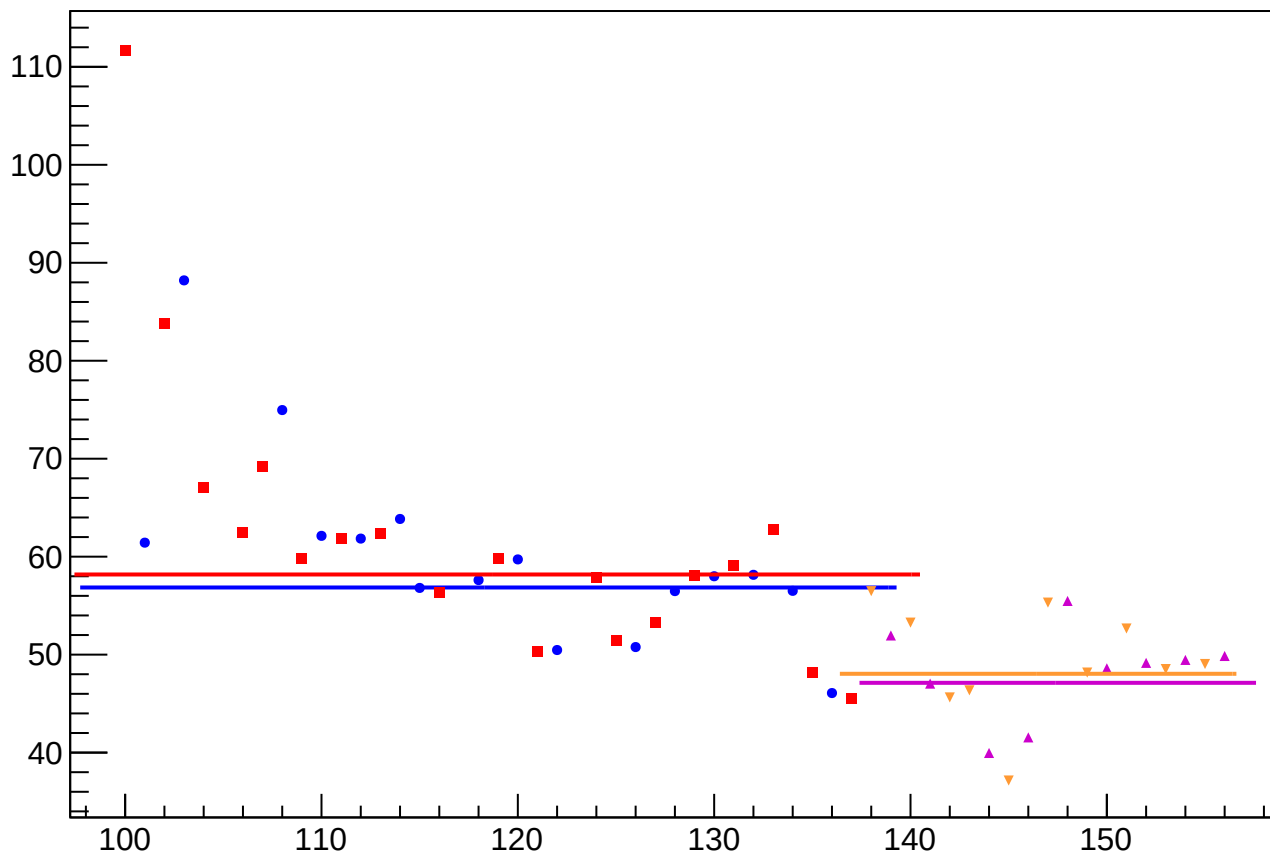
Right: 45.094 $\pm$ 15.235 χ^2 /NDF: 37.2/34

In: 18.822 $\pm$ 13.318 χ^2 /NDF: 32.1/24

Out: -9.317 $\pm$ 13.525 χ^2 /NDF: 29.3/28

All: 4.969 $\pm$ 9.489 χ^2 /NDF: 63.6/53

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854 $\pm$ 0.015 χ^2 /NDF: 341601.2/15

Left Out: 48.044 $\pm$ 0.012 χ^2 /NDF:235064.5/9

Right Out: 58.181 $\pm$ 0.015 χ^2 /NDF: 314660.6/18

Left In: 47.122 $\pm$ 0.012 χ^2 /NDF:154174.2/8

Left: 47.573 $\pm$ 0.009 χ^2 /NDF: 392126.0/18

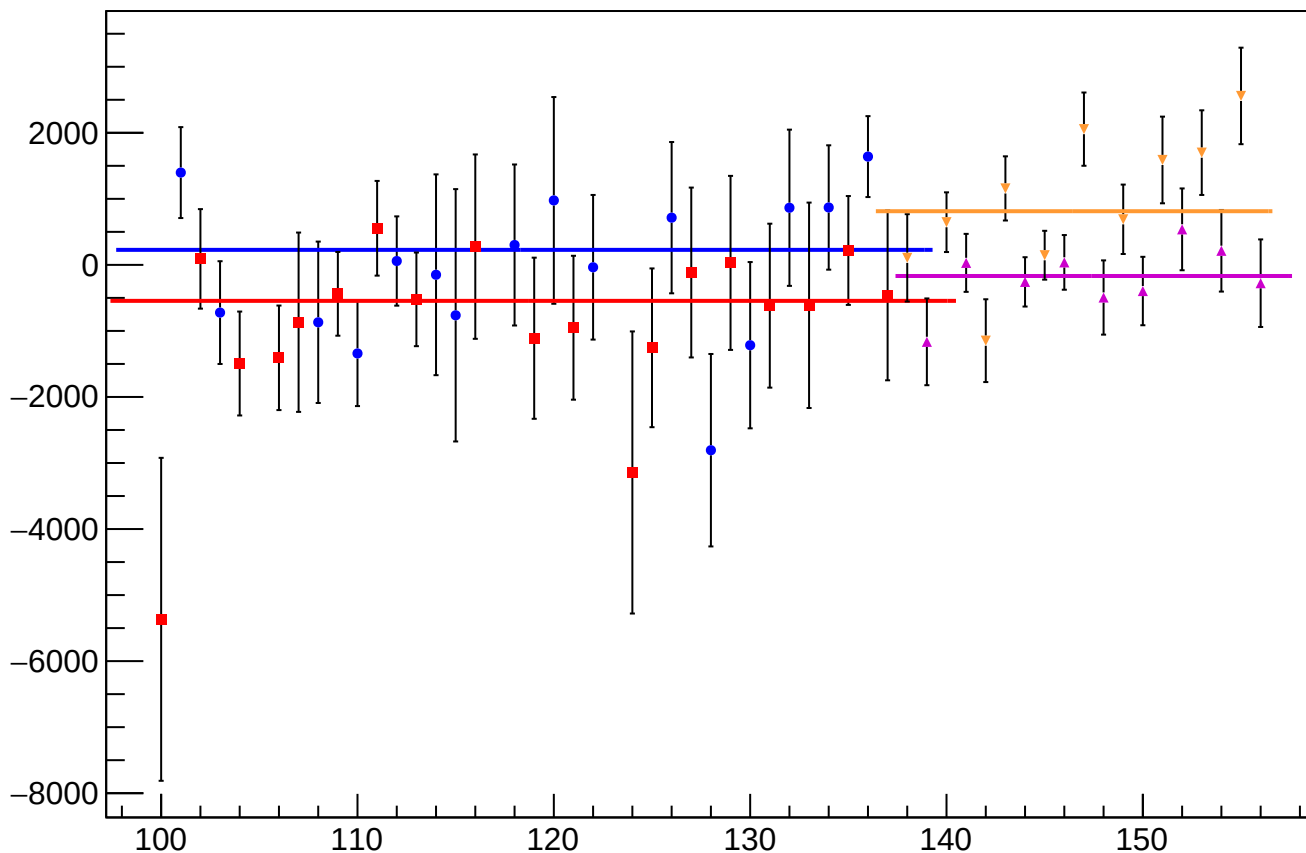
Right: 57.513 $\pm$ 0.011 χ^2 /NDF: 660056.1/34

In: 50.865 $\pm$ 0.009 χ^2 /NDF:748556.1/24

Out: 52.012 $\pm$ 0.010 χ^2 /NDF:817382.3/28

All: 51.430 $\pm$ 0.007 χ^2 /NDF: 1573240.2/53

asym_sam_15_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 227.508 $\pm$ 241.225 χ^2 /NDF: 21.6/15

Left Out: 812.709 $\pm$ 169.573 χ^2 /NDF:28.9/9

Right Out: -544.769 $\pm$ 227.243 χ^2 /NDF: 13.4/18

Left In: -168.235 $\pm$ 169.267 χ^2 /NDF:5.1/8

Left: 321.351 $\pm$ 119.798 χ^2 /NDF: 50.7/18

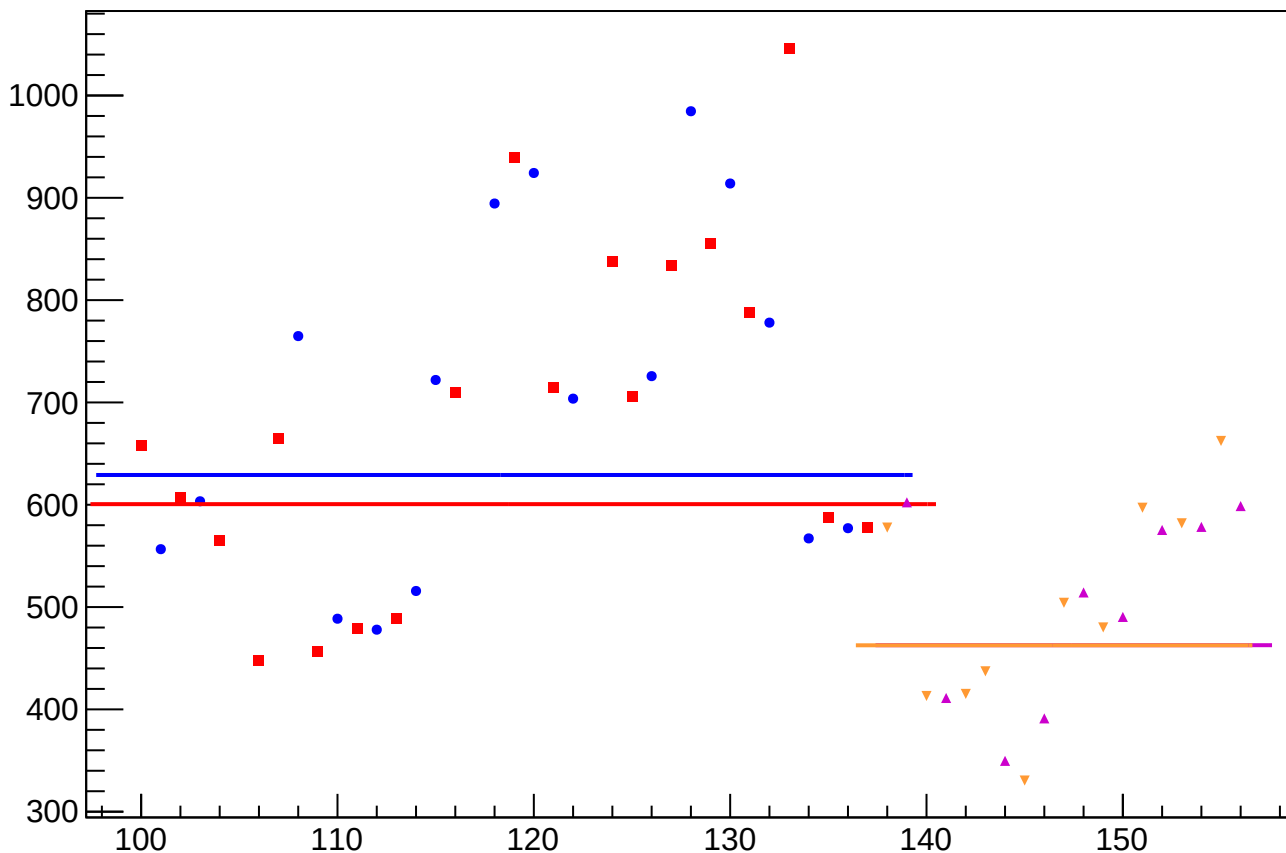
Right: -181.660 $\pm$ 165.407 χ^2 /NDF: 40.4/34

In: -37.668 $\pm$ 138.558 χ^2 /NDF:28.5/24

Out: 327.173 $\pm$ 135.904 χ^2 /NDF:65.2/28

All: 148.280 $\pm$ 97.024 χ^2 /NDF: 97.2/53

asym_sam_15_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 629.096 $\pm$ 0.171 χ^2 /NDF: 692724.2/15

Left Out: 462.632 $\pm$ 0.120 χ^2 /NDF: 673191.2/9

Right Out: 600.593 $\pm$ 0.161 χ^2 /NDF: 874614.2/18

Left In: 462.731 $\pm$ 0.120 χ^2 /NDF: 603748.3/8

Left: 462.682 $\pm$ 0.085 χ^2 /NDF: 1276939.8/18

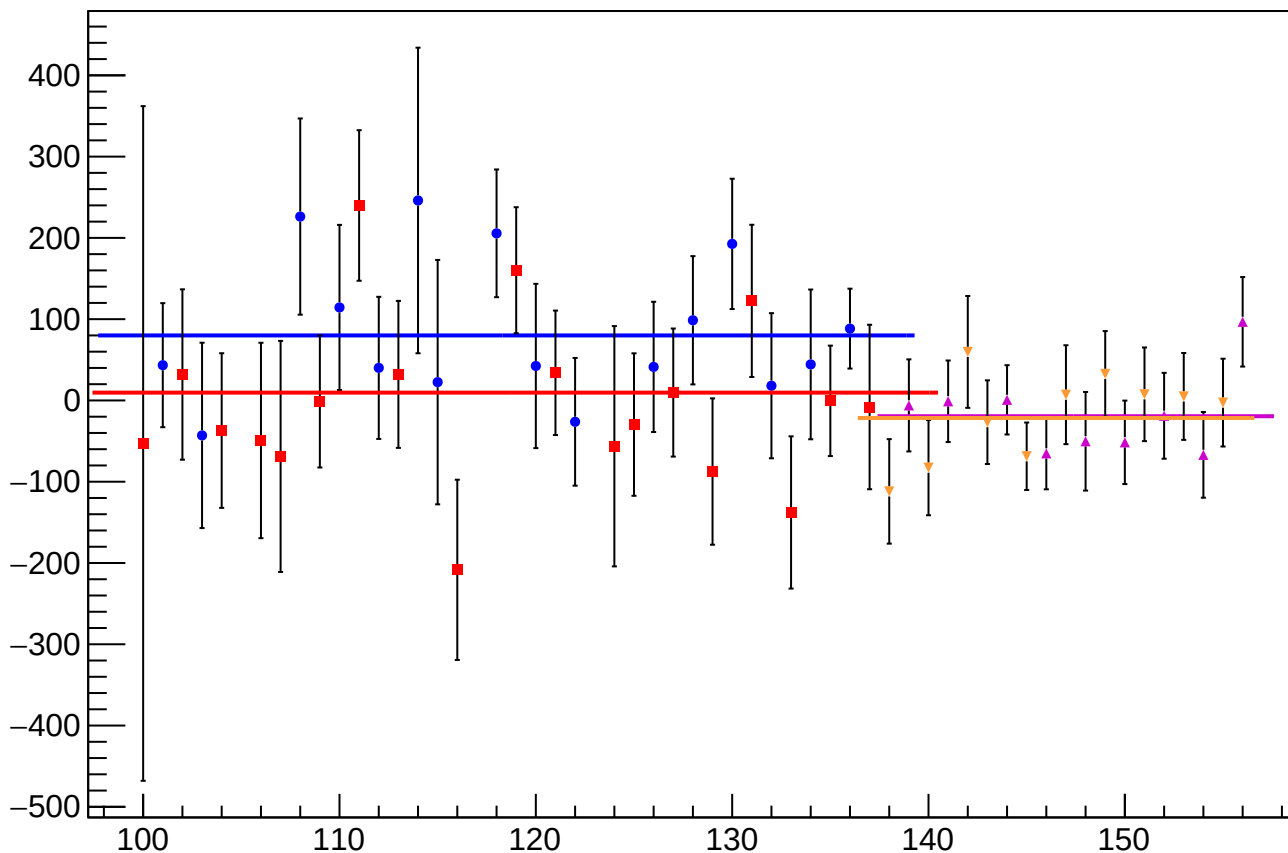
Right: 613.994 $\pm$ 0.117 χ^2 /NDF: 1582132.3/34

In: 517.620 $\pm$ 0.098 χ^2 /NDF: 1933893.3/24

Out: 511.977 $\pm$ 0.096 χ^2 /NDF: 2021305.4/28

All: 514.744 $\pm$ 0.069 χ^2 /NDF: 3956889.3/53

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: -21.573 $\pm$ 17.337 χ^2 /NDF: 7.7/9

Right Out: 9.619 $\pm$ 21.631 χ^2 /NDF: 20.4/18

Left In: -19.411 $\pm$ 16.977 χ^2 /NDF: 7.4/8

Left: -20.469 $\pm$ 12.130 χ^2 /NDF: 15.1/18

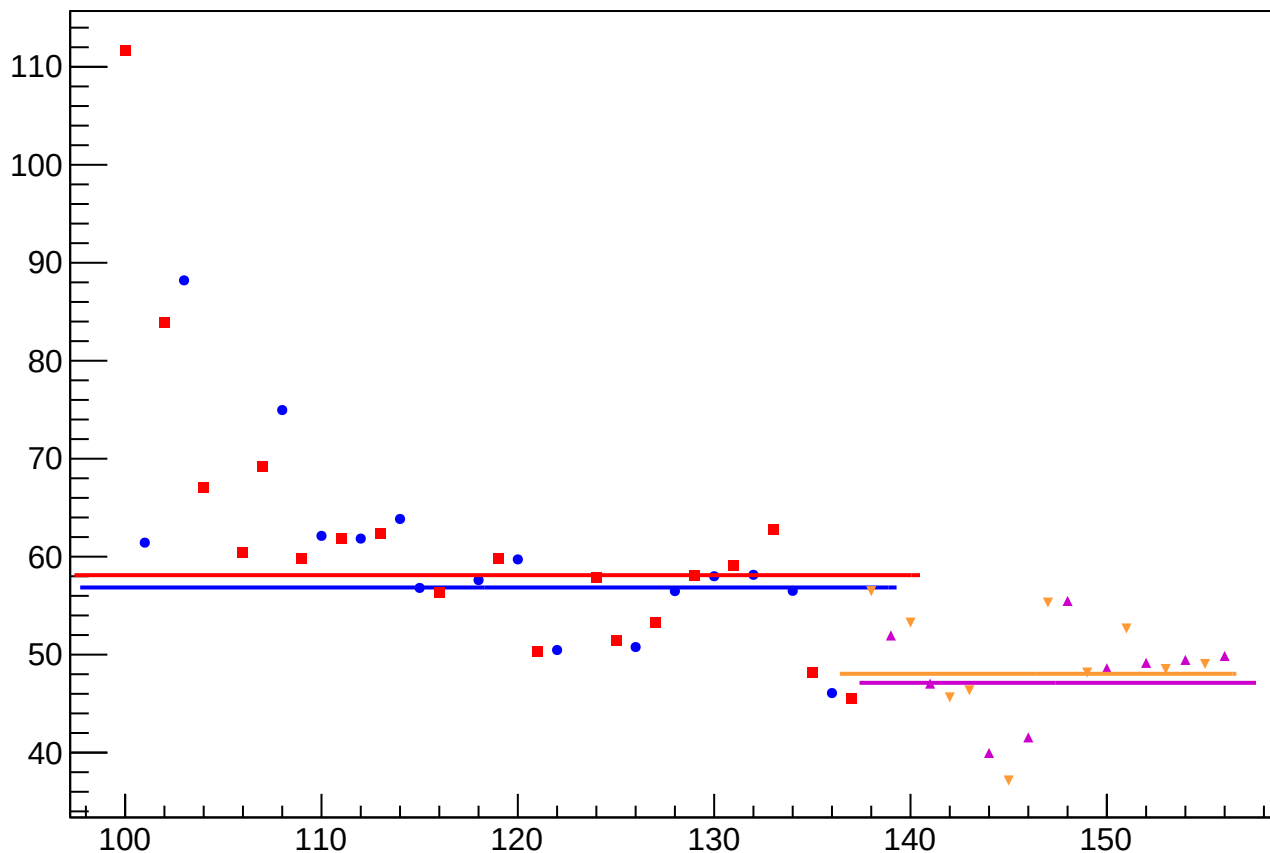
Right: 45.064 $\pm$ 15.240 χ^2 /NDF: 37.3/34

In: 18.823 $\pm$ 13.318 χ^2 /NDF: 32.1/24

Out: -9.373 $\pm$ 13.528 χ^2 /NDF: 29.3/28

All: 4.946 $\pm$ 9.491 χ^2 /NDF: 63.7/53

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: 48.044 $\pm$ 0.012 χ^2 /NDF:235064.5/9

Right Out: 58.111 $\pm$ 0.015 χ^2 /NDF: 312938.5/18

Left In: 47.122 $\pm$ 0.012 χ^2 /NDF:154174.2/8

Left: 47.573 $\pm$ 0.009 χ^2 /NDF: 392126.0/18

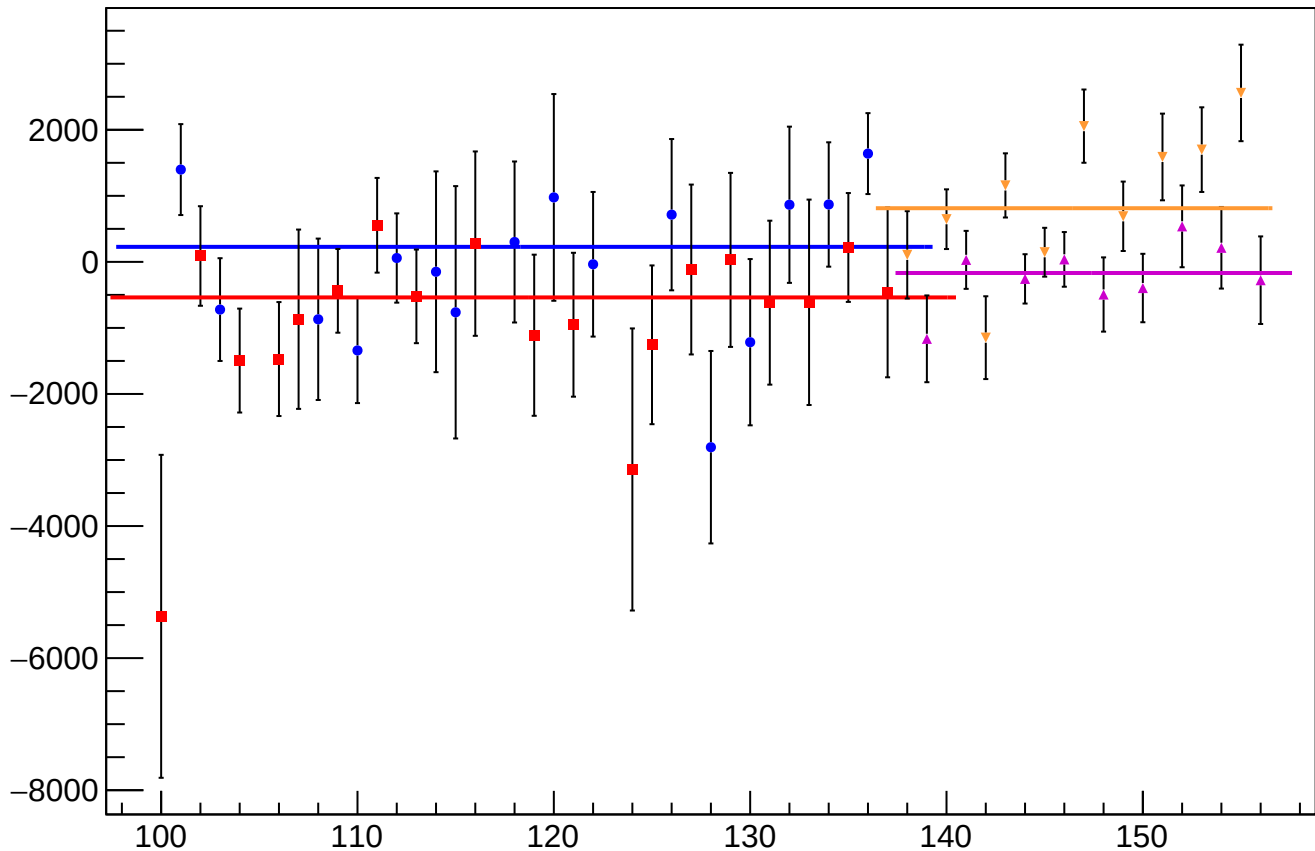
Right: 57.478 $\pm$ 0.011 χ^2 /NDF: 657942.0/34

In: 50.865 $\pm$ 0.009 χ^2 /NDF:748560.1/24

Out: 51.982 $\pm$ 0.010 χ^2 /NDF:811736.8/28

All: 51.415 $\pm$ 0.007 χ^2 /NDF: 1567211.3/53

asym_sam_15_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 $\pm$ 241.227 χ^2 /NDF: 21.6/15

Left Out: 812.705 $\pm$ 169.573 χ^2 /NDF:28.9/9

Right Out: -538.117 $\pm$ 228.754 χ^2 /NDF: 13.3/18

Left In: -168.239 $\pm$ 169.267 χ^2 /NDF:5.1/8

Left: 321.348 $\pm$ 119.798 χ^2 /NDF: 50.7/18

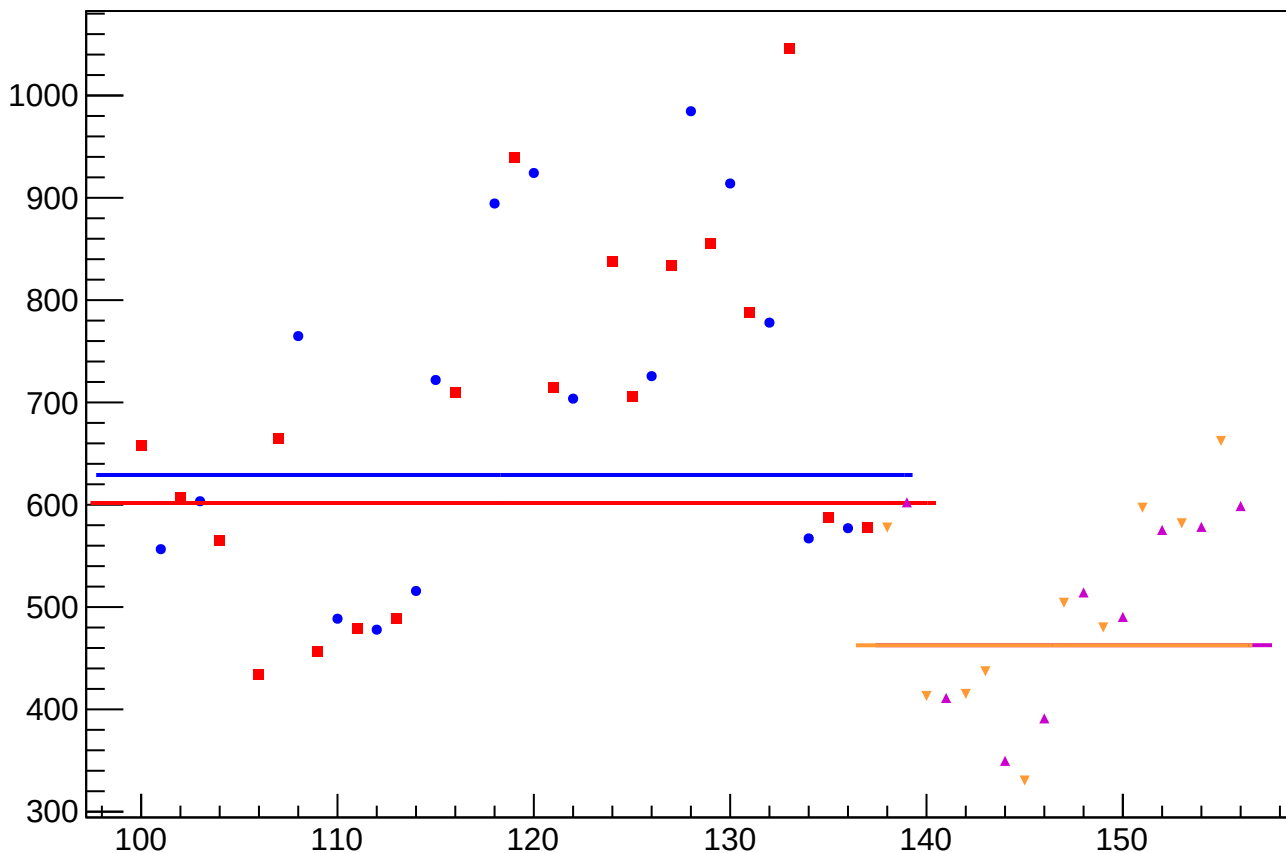
Right: -175.590 $\pm$ 165.988 χ^2 /NDF: 40.3/34

In: -37.659 $\pm$ 138.559 χ^2 /NDF:28.5/24

Out: 333.658 $\pm$ 136.226 χ^2 /NDF:64.7/28

All: 151.151 $\pm$ 97.140 χ^2 /NDF: 96.9/53

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: 462.632 $\pm$ 0.120 χ^2 /NDF: 673193.2/9

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 462.732 $\pm$ 0.120 χ^2 /NDF: 603747.2/8

Left: 462.682 $\pm$ 0.085 χ^2 /NDF: 1276940.8/18

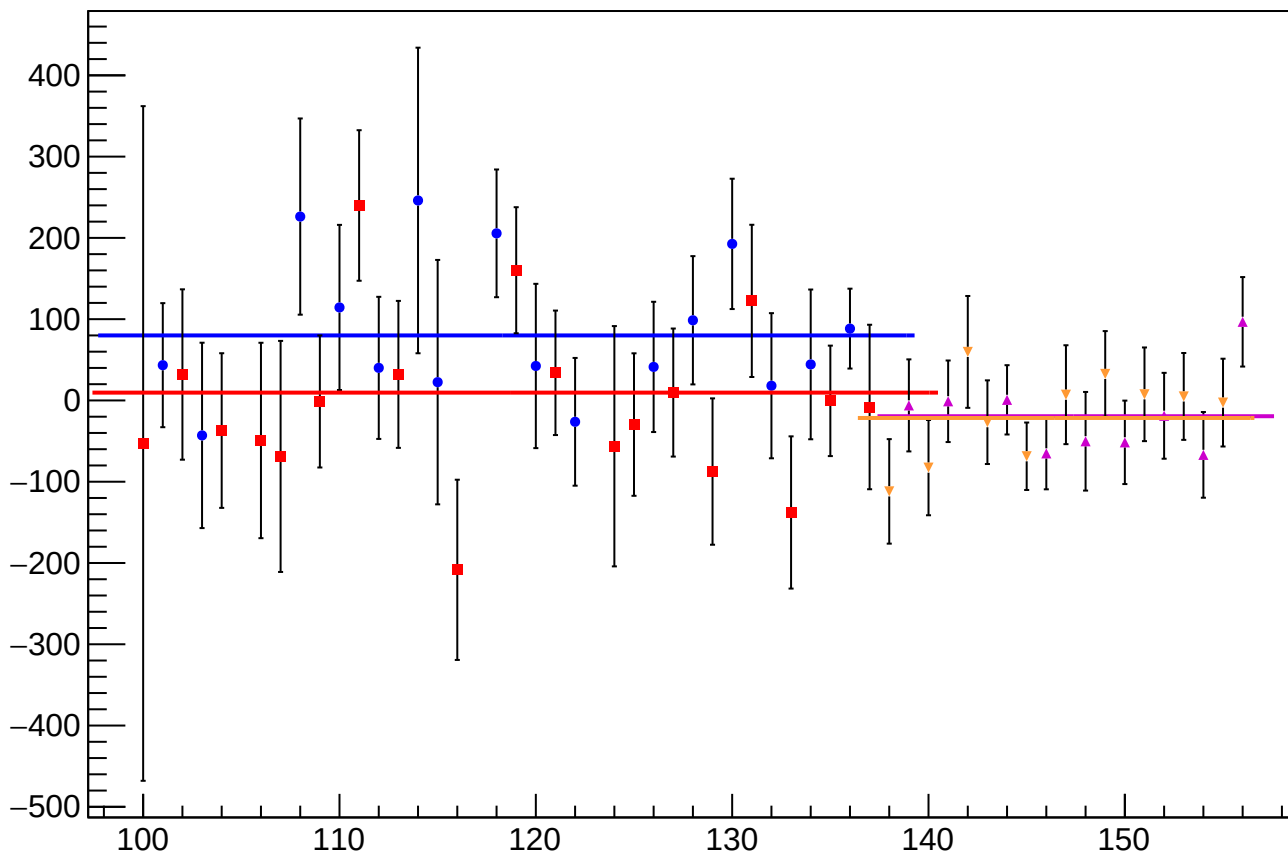
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 517.621 $\pm$ 0.098 χ^2 /NDF: 1933912.1/24

Out: 511.957 $\pm$ 0.096 χ^2 /NDF: 2024415.9/28

All: 514.741 $\pm$ 0.069 χ^2 /NDF: 3960027.3/53

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: -21.573 $\pm$ 17.337 χ^2 /NDF: 7.7/9

Right Out: 9.619 $\pm$ 21.631 χ^2 /NDF: 20.4/18

Left In: -19.411 $\pm$ 16.977 χ^2 /NDF: 7.4/8

Left: -20.469 $\pm$ 12.130 χ^2 /NDF: 15.1/18

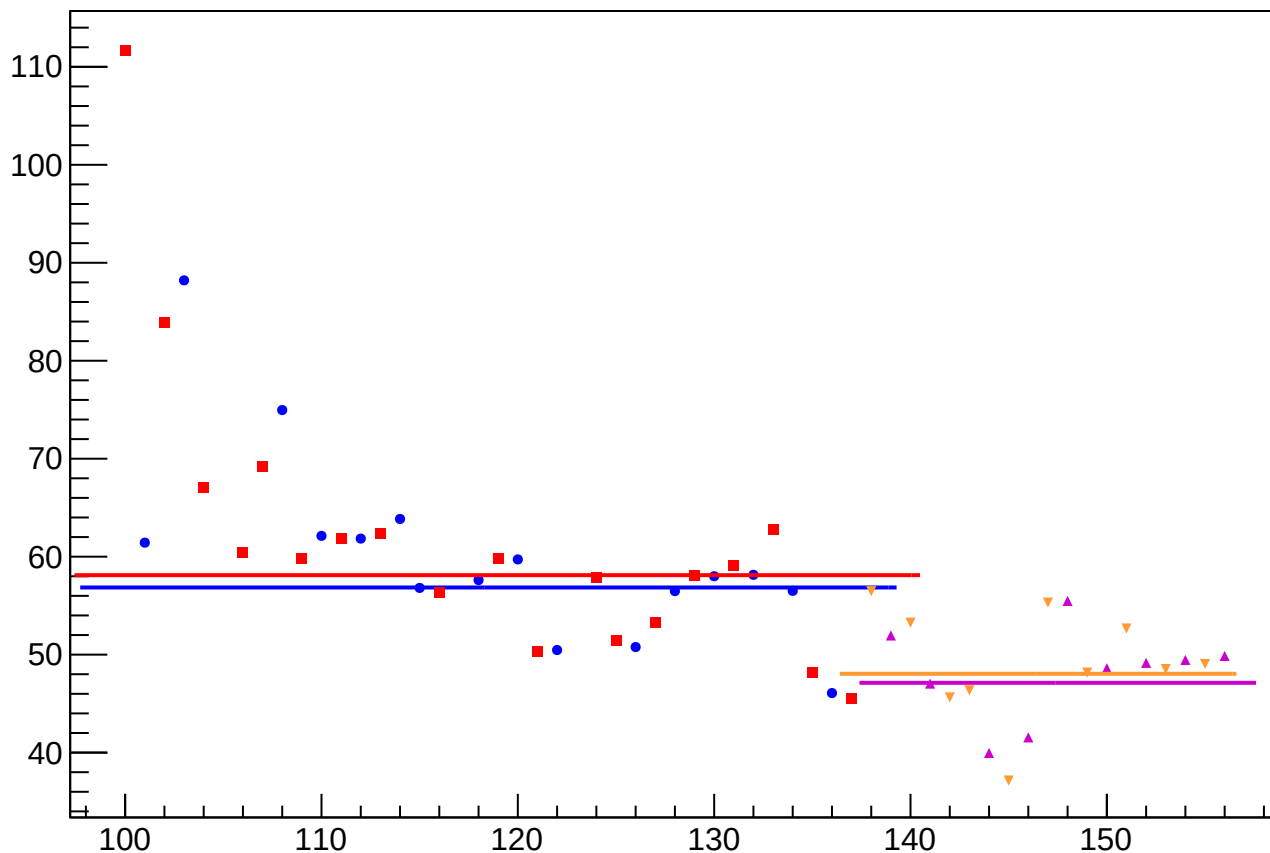
Right: 45.064 $\pm$ 15.240 χ^2 /NDF: 37.3/34

In: 18.823 $\pm$ 13.318 χ^2 /NDF: 32.1/24

Out: -9.373 $\pm$ 13.528 χ^2 /NDF: 29.3/28

All: 4.946 $\pm$ 9.491 χ^2 /NDF: 63.7/53

eigen_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: 48.044 $\pm$ 0.012 χ^2 /NDF:235064.5/9

Right Out: 58.111 $\pm$ 0.015 χ^2 /NDF: 312938.5/18

Left In: 47.122 $\pm$ 0.012 χ^2 /NDF:154174.2/8

Left: 47.573 $\pm$ 0.009 χ^2 /NDF: 392126.0/18

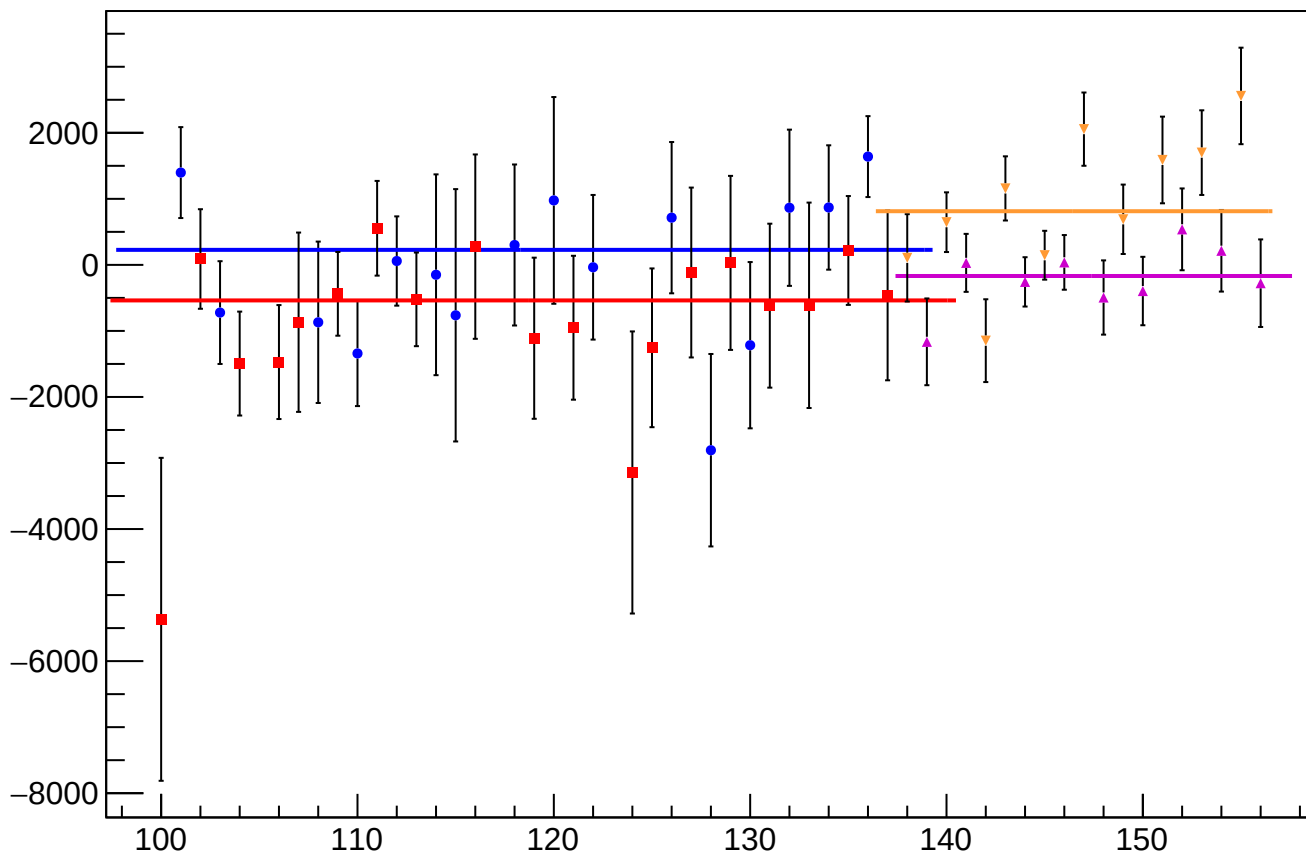
Right: 57.478 $\pm$ 0.011 χ^2 /NDF: 657942.0/34

In: 50.865 $\pm$ 0.009 χ^2 /NDF:748560.1/24

Out: 51.982 $\pm$ 0.010 χ^2 /NDF:811736.8/28

All: 51.415 $\pm$ 0.007 χ^2 /NDF: 1567211.3/53

asym_sam_15_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 $\pm$ 241.227 χ^2 /NDF: 21.6/15

Left Out: 812.705 $\pm$ 169.573 χ^2 /NDF:28.9/9

Right Out: -538.117 $\pm$ 228.754 χ^2 /NDF: 13.3/18

Left In: -168.239 $\pm$ 169.267 χ^2 /NDF:5.1/8

Left: 321.348 $\pm$ 119.798 χ^2 /NDF: 50.7/18

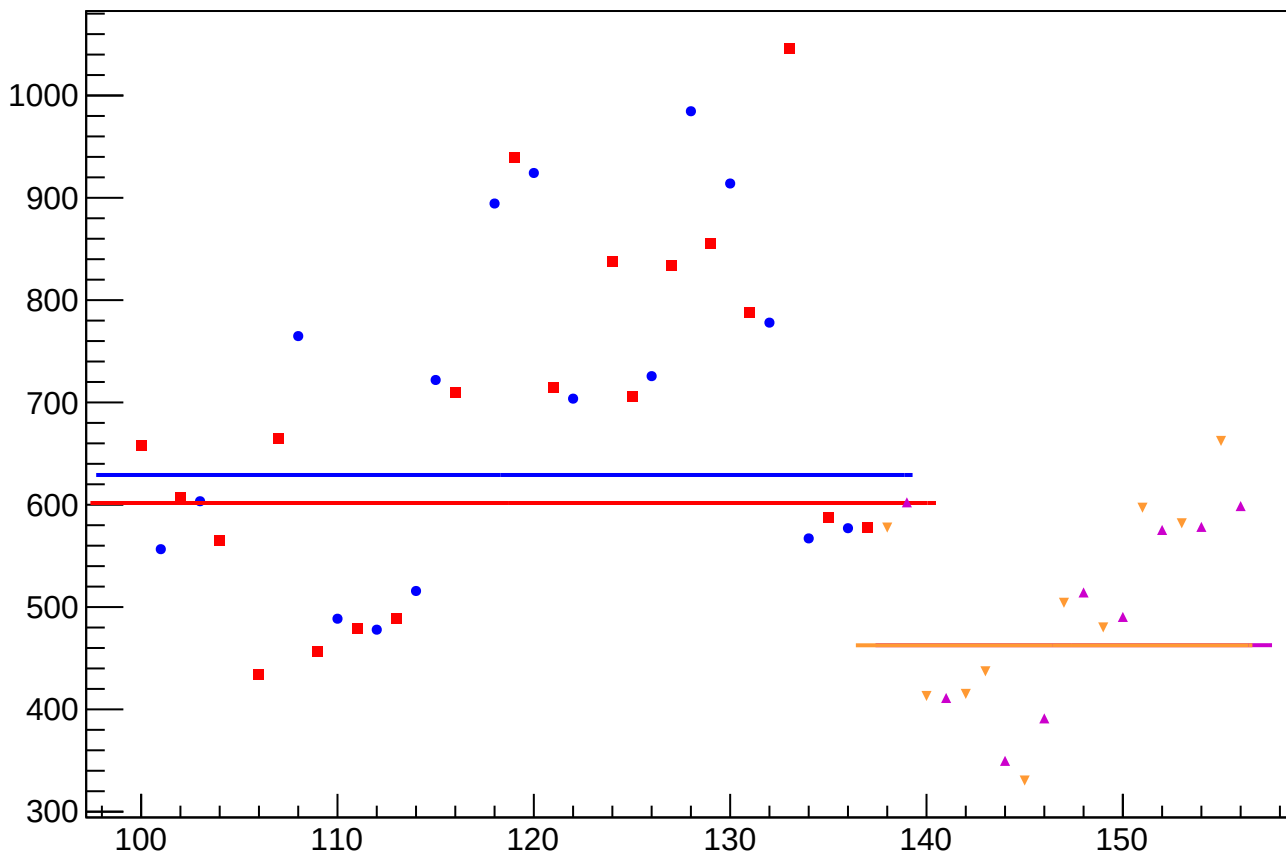
Right: -175.590 $\pm$ 165.988 χ^2 /NDF: 40.3/34

In: -37.659 $\pm$ 138.559 χ^2 /NDF:28.5/24

Out: 333.658 $\pm$ 136.226 χ^2 /NDF:64.7/28

All: 151.151 $\pm$ 97.140 χ^2 /NDF: 96.9/53

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: 462.632 $\pm$ 0.120 χ^2 /NDF: 673193.2/9

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 462.732 $\pm$ 0.120 χ^2 /NDF: 603747.2/8

Left: 462.682 $\pm$ 0.085 χ^2 /NDF: 1276940.8/18

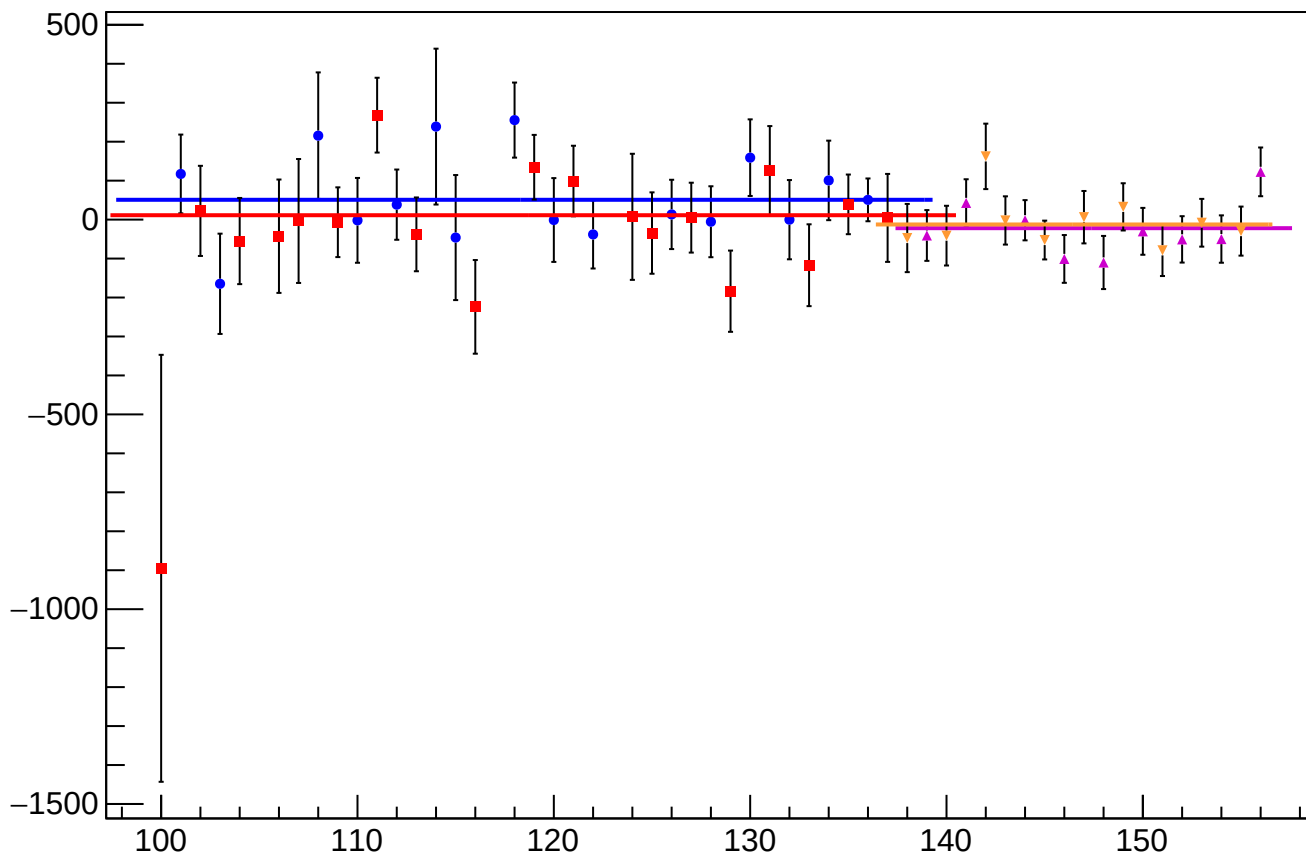
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 517.621 $\pm$ 0.098 χ^2 /NDF: 1933912.1/24

Out: 511.957 $\pm$ 0.096 χ^2 /NDF: 2024415.9/28

All: 514.741 $\pm$ 0.069 χ^2 /NDF: 3960027.3/53

dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.861 ± 24.492 $\chi^2/\text{NDF}: 13.8/15$

Left Out: -12.496 ± 20.639 $\chi^2/\text{NDF}: 7.0/9$

Right Out: 11.261 ± 24.324 $\chi^2/\text{NDF}: 24.0/18$

Left In: -22.001 ± 20.212 $\chi^2/\text{NDF}: 10.5/8$

Left: -17.348 ± 14.441 $\chi^2/\text{NDF}: 17.6/18$

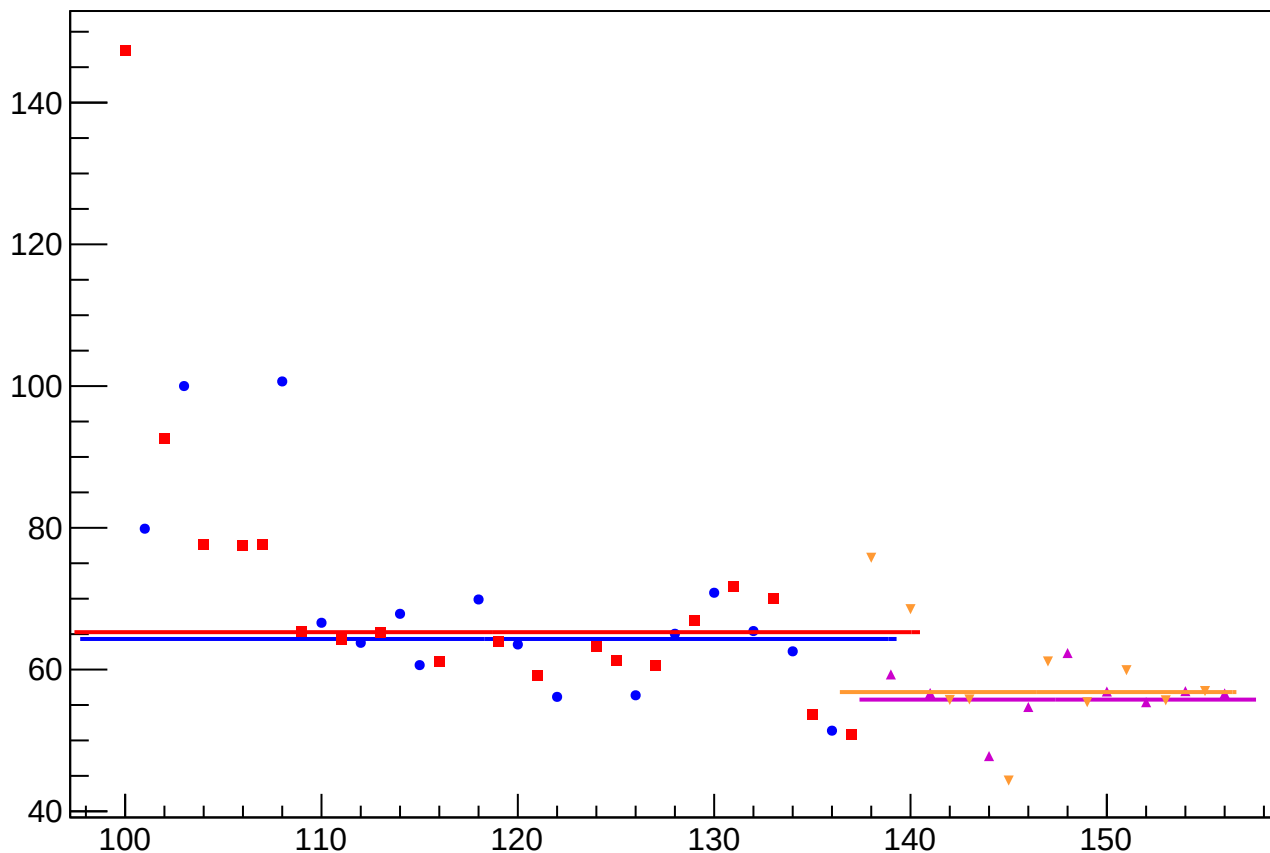
Right: 30.925 ± 17.259 $\chi^2/\text{NDF}: 39.1/34$

In: 7.517 ± 15.589 $\chi^2/\text{NDF}: 29.6/24$

Out: -2.552 ± 15.737 $\chi^2/\text{NDF}: 31.6/28$

All: 2.530 ± 11.075 $\chi^2/\text{NDF}: 61.4/53$

dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317 ± 0.017 $\chi^2/\text{NDF}: 464952.4/15$

Left Out: 56.823 ± 0.015 $\chi^2/\text{NDF}: 281308.2/9$

Right Out: 65.277 ± 0.017 $\chi^2/\text{NDF}: 319136.6/18$

Left In: 55.760 ± 0.014 $\chi^2/\text{NDF}: 75213.2/8$

Left: 56.280 ± 0.010 $\chi^2/\text{NDF}: 359233.0/18$

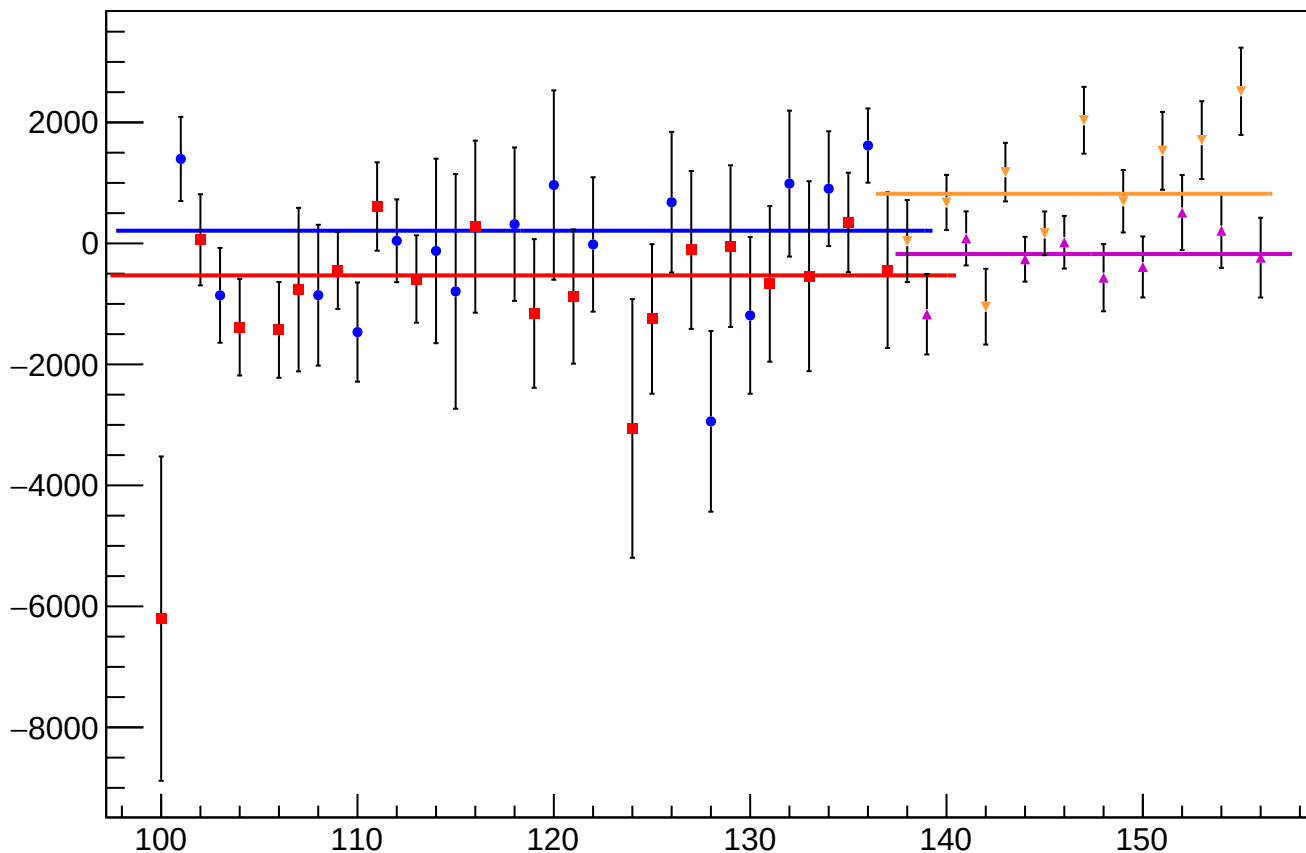
Right: 64.800 ± 0.012 $\chi^2/\text{NDF}: 785637.7/34$

In: 59.226 ± 0.011 $\chi^2/\text{NDF}: 685398.9/24$

Out: 60.362 ± 0.011 $\chi^2/\text{NDF}: 740908.3/28$

All: 59.789 ± 0.008 $\chi^2/\text{NDF}: 1431564.7/53$

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: 820.231 $\pm$ 168.471 χ^2 /NDF:27.7/9

Right Out: -528.675 $\pm$ 229.679 χ^2 /NDF: 13.8/18

Left In: -175.533 $\pm$ 170.167 χ^2 /NDF:5.1/8

Left: 327.337 $\pm$ 119.722 χ^2 /NDF: 50.1/18

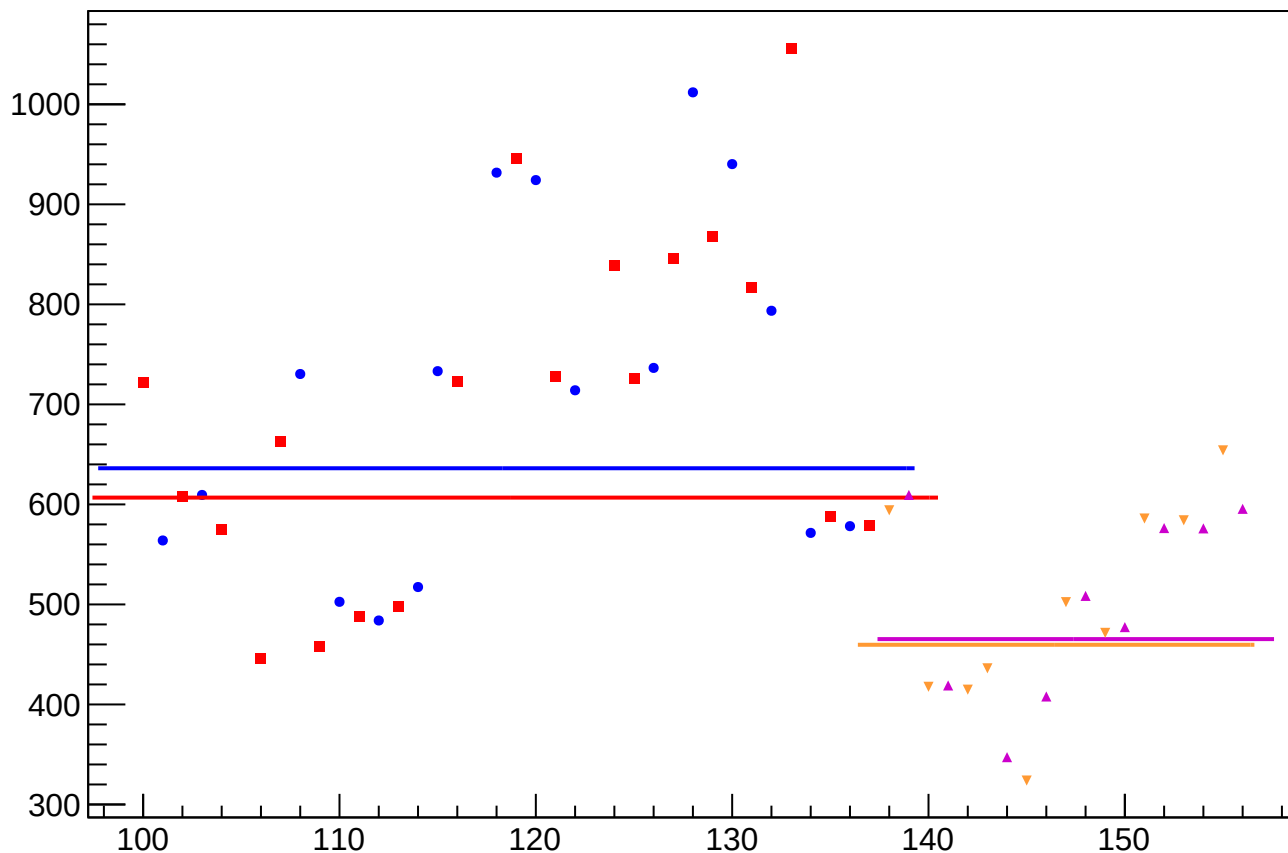
Right: -181.337 $\pm$ 167.176 χ^2 /NDF: 41.1/34

In: -49.231 $\pm$ 139.538 χ^2 /NDF:29.2/24

Out: 348.359 $\pm$ 135.844 χ^2 /NDF:63.9/28

All: 154.896 $\pm$ 97.336 χ^2 /NDF: 97.3/53

asym_sam_15_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 636.144+/-0.172 χ^2/NDF : 705237.7/15

Left Out: 459.666+/-0.119 χ^2/NDF : 702621.7/9

Right Out: 606.803+/-0.162 χ^2/NDF : 893878.7/18

Left In: 465.341+/-0.120 χ^2/NDF : 573225.0/8

Left: 462.475+/-0.085 χ^2/NDF : 1276970.0/18

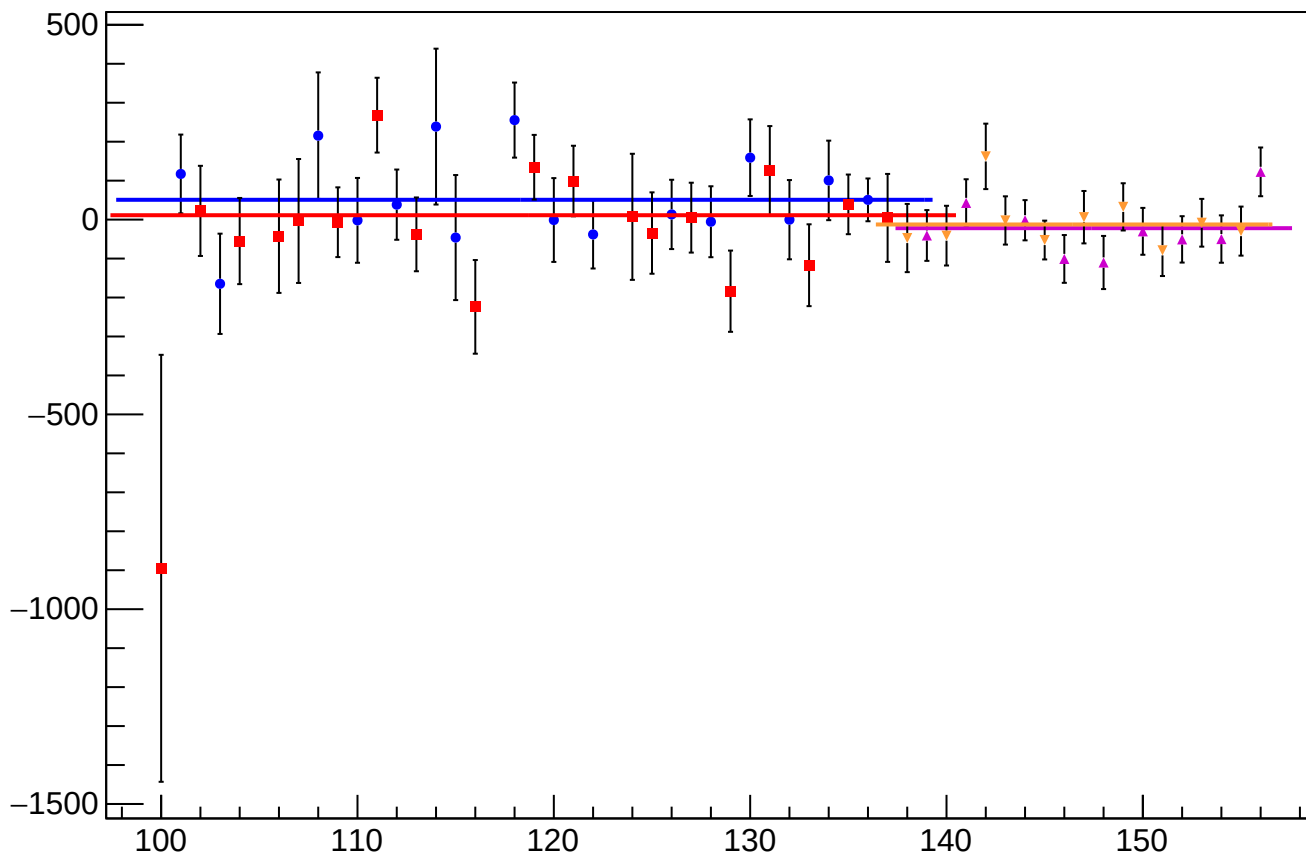
Right: 620.599+/-0.118 χ^2/NDF : 1614464.0/34

In: 521.294+/-0.099 χ^2/NDF : 1938545.7/24

Out: 511.137+/-0.096 χ^2/NDF : 2130161.2/28

All: 516.079+/-0.069 χ^2/NDF : 4074147.2/53

eigen_dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.859 ± 24.492 $\chi^2/\text{NDF}: 13.8/15$

Left Out: -12.496 ± 20.639 $\chi^2/\text{NDF}: 7.0/9$

Right Out: 11.261 ± 24.324 $\chi^2/\text{NDF}: 24.0/18$

Left In: -22.002 ± 20.212 $\chi^2/\text{NDF}: 10.5/8$

Left: -17.348 ± 14.441 $\chi^2/\text{NDF}: 17.6/18$

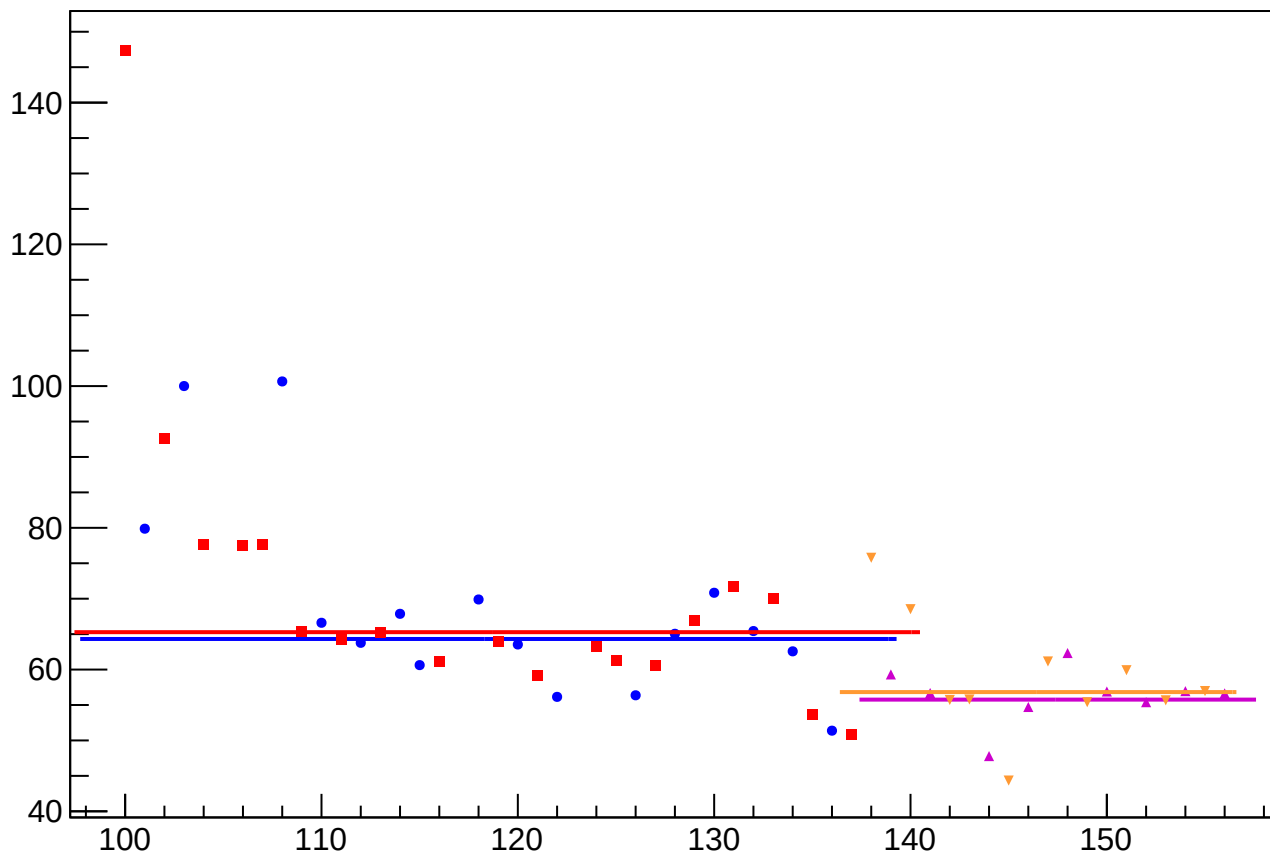
Right: 30.924 ± 17.259 $\chi^2/\text{NDF}: 39.1/34$

In: 7.516 ± 15.589 $\chi^2/\text{NDF}: 29.6/24$

Out: -2.552 ± 15.737 $\chi^2/\text{NDF}: 31.6/28$

All: 2.530 ± 11.075 $\chi^2/\text{NDF}: 61.4/53$

eigen_dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317 ± 0.017 $\chi^2/\text{NDF}: 464950.5/15$

Left Out: 56.824 ± 0.015 $\chi^2/\text{NDF}: 281294.6/9$

Right Out: 65.277 ± 0.017 $\chi^2/\text{NDF}: 319140.2/18$

Left In: 55.760 ± 0.014 $\chi^2/\text{NDF}: 75208.7/8$

Left: 56.281 ± 0.010 $\chi^2/\text{NDF}: 359215.1/18$

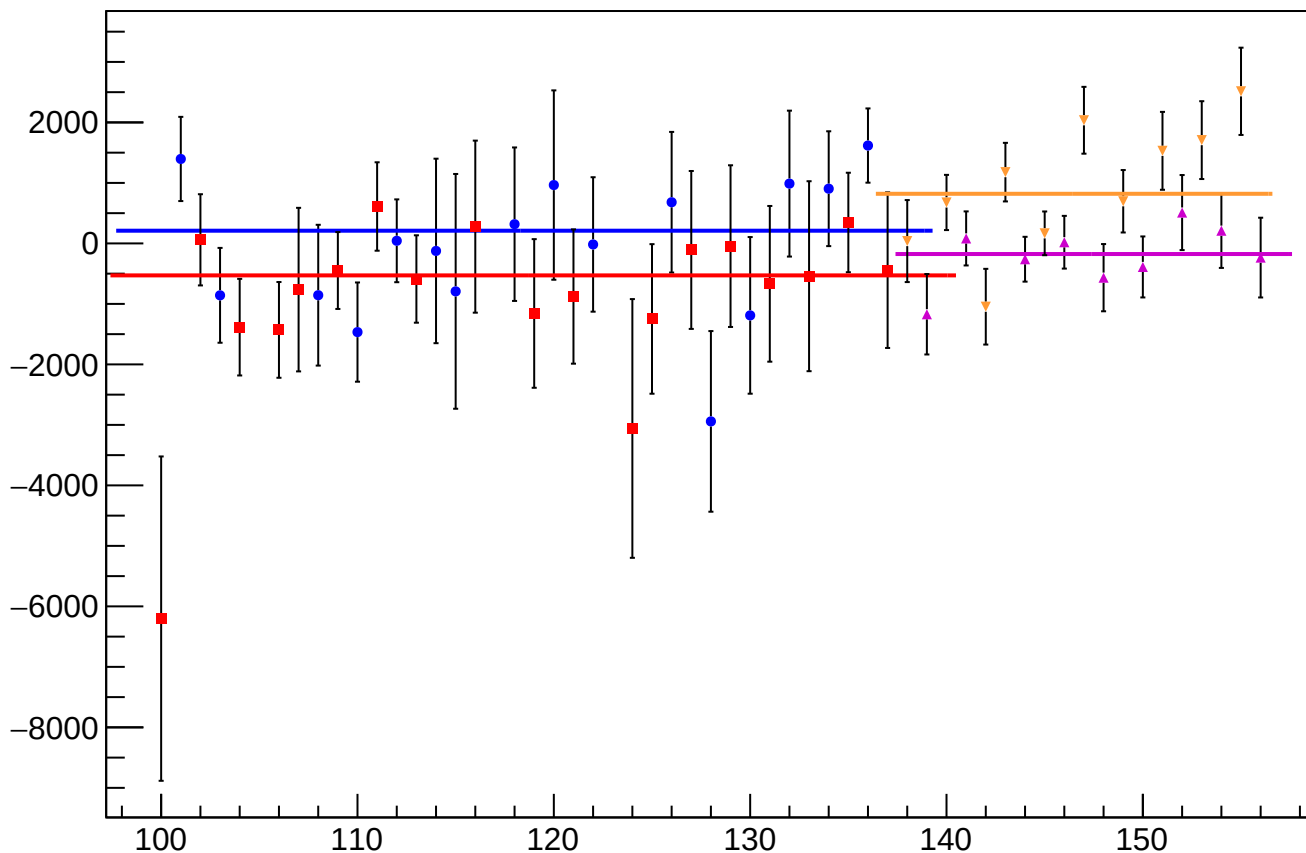
Right: 64.800 ± 0.012 $\chi^2/\text{NDF}: 785639.3/34$

In: 59.226 ± 0.011 $\chi^2/\text{NDF}: 685386.4/24$

Out: 60.362 ± 0.011 $\chi^2/\text{NDF}: 740888.4/28$

All: 59.789 ± 0.008 $\chi^2/\text{NDF}: 1431532.3/53$

asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 210.017 $\pm$ 243.798 χ^2 /NDF: 22.4/15

Left Out: 820.229 $\pm$ 168.470 χ^2 /NDF:27.7/9

Right Out: -528.674 $\pm$ 229.678 χ^2 /NDF: 13.8/18

Left In: -175.532 $\pm$ 170.167 χ^2 /NDF:5.1/8

Left: 327.336 $\pm$ 119.722 χ^2 /NDF: 50.1/18

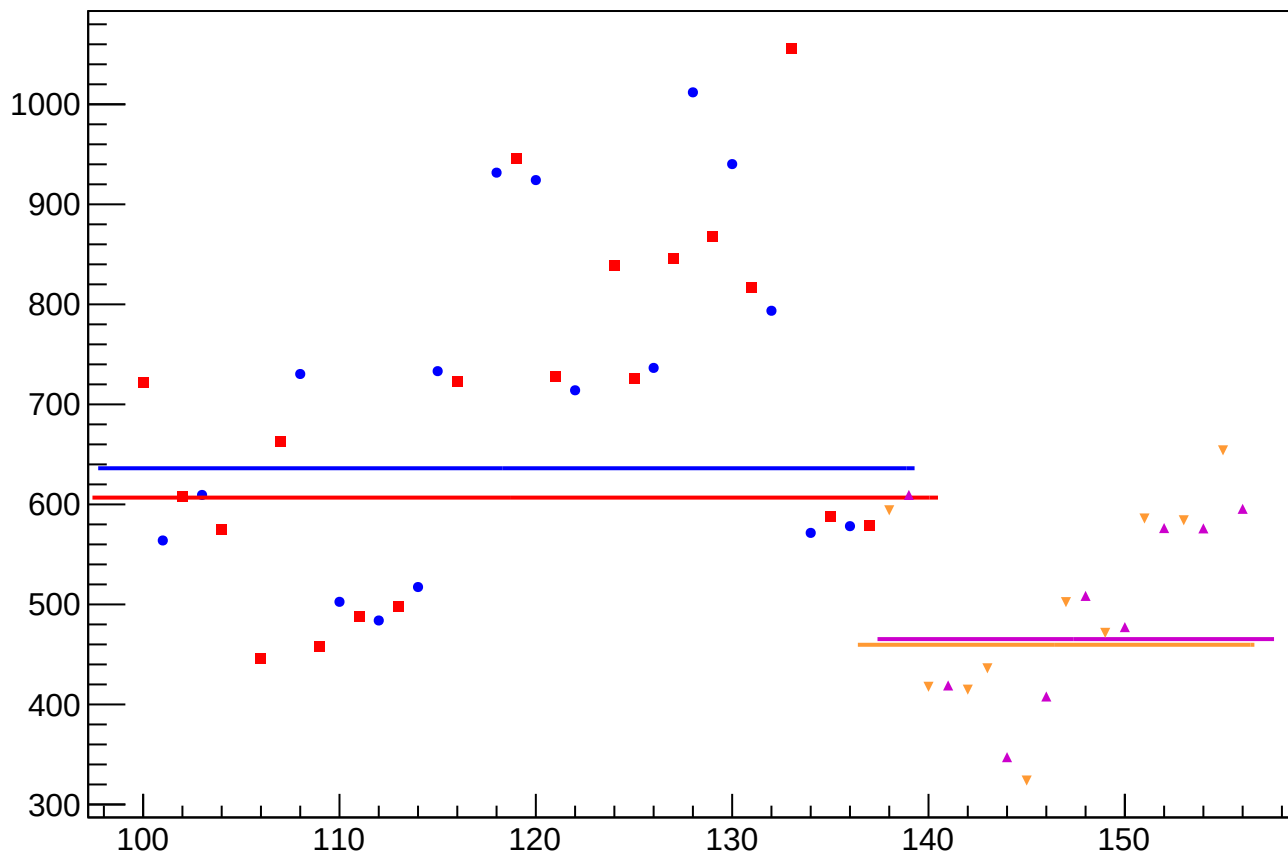
Right: -181.337 $\pm$ 167.176 χ^2 /NDF: 41.1/34

In: -49.231 $\pm$ 139.538 χ^2 /NDF:29.2/24

Out: 348.359 $\pm$ 135.844 χ^2 /NDF:63.9/28

All: 154.896 $\pm$ 97.336 χ^2 /NDF: 97.3/53

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: 459.665+/-0.119 χ^2/NDF : 702627.9/9

Right Out: 606.802+/-0.162 χ^2/NDF : 893880.8/18

Left In: 465.340+/-0.120 χ^2/NDF : 573225.7/8

Left: 462.474+/-0.085 χ^2/NDF : 1276977.1/18

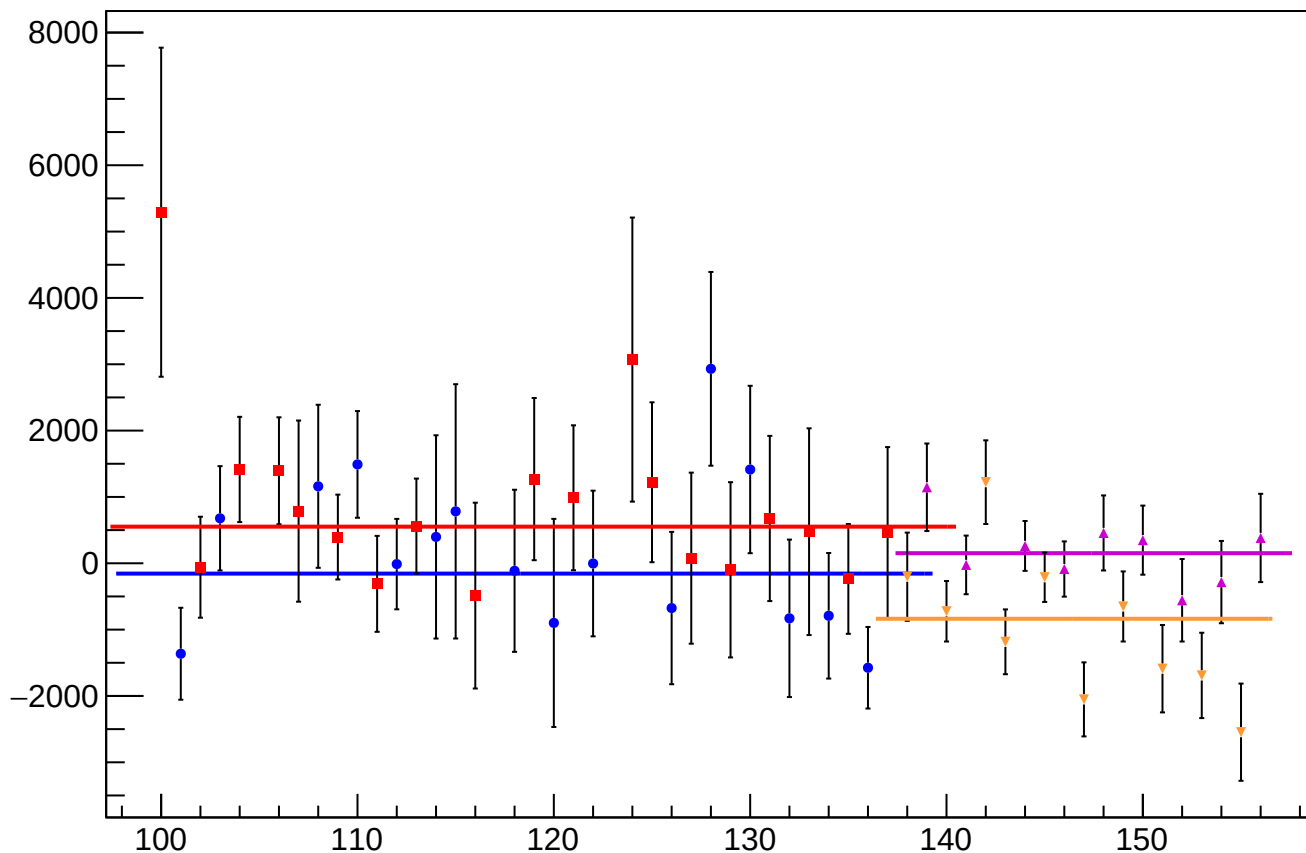
Right: 620.599+/-0.118 χ^2/NDF : 1614469.5/34

In: 521.293+/-0.099 χ^2/NDF : 1938550.6/24

Out: 511.136+/-0.096 χ^2/NDF : 2130173.3/28

All: 516.079+/-0.069 χ^2/NDF : 4074164.5/53

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: -836.506 $\pm$ 170.557 χ^2 /NDF:28.3/9

Right Out: 552.176 $\pm$ 228.890 χ^2 /NDF: 12.1/18

Left In: 152.302 $\pm$ 170.192 χ^2 /NDF:5.2/8

Left: -341.043 $\pm$ 120.473 χ^2 /NDF: 50.4/18

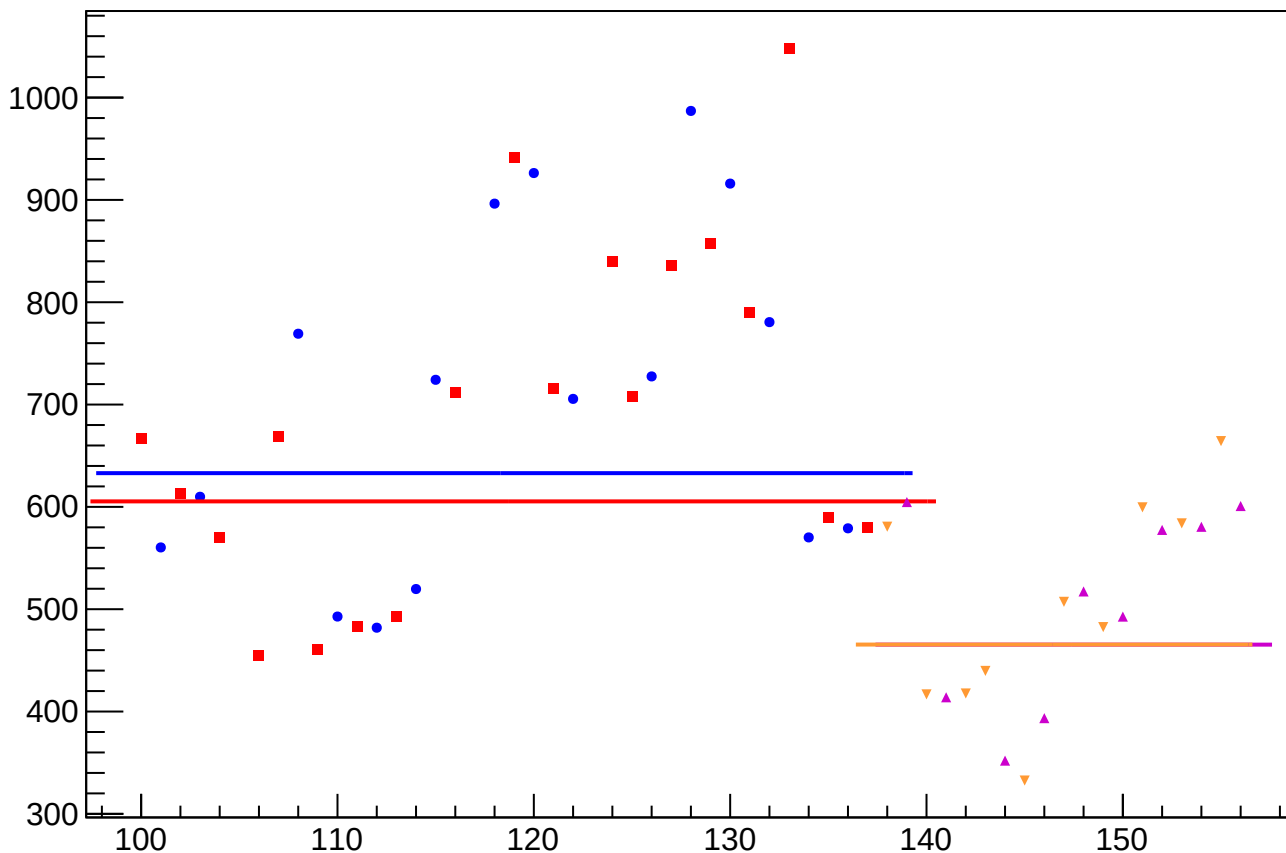
Right: 218.820 $\pm$ 166.484 χ^2 /NDF: 39.1/34

In: 50.728 $\pm$ 139.326 χ^2 /NDF:28.8/24

Out: -340.725 $\pm$ 136.764 χ^2 /NDF:64.1/28

All: -148.631 $\pm$ 97.600 χ^2 /NDF: 96.9/53

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: 465.446 $\pm$ 0.121 χ^2 /NDF: 666195.2/9

Right Out: 605.373 $\pm$ 0.162 χ^2 /NDF: 853994.0/18

Left In: 465.378 $\pm$ 0.120 χ^2 /NDF: 597103.2/8

Left: 465.412 $\pm$ 0.085 χ^2 /NDF: 1263298.6/18

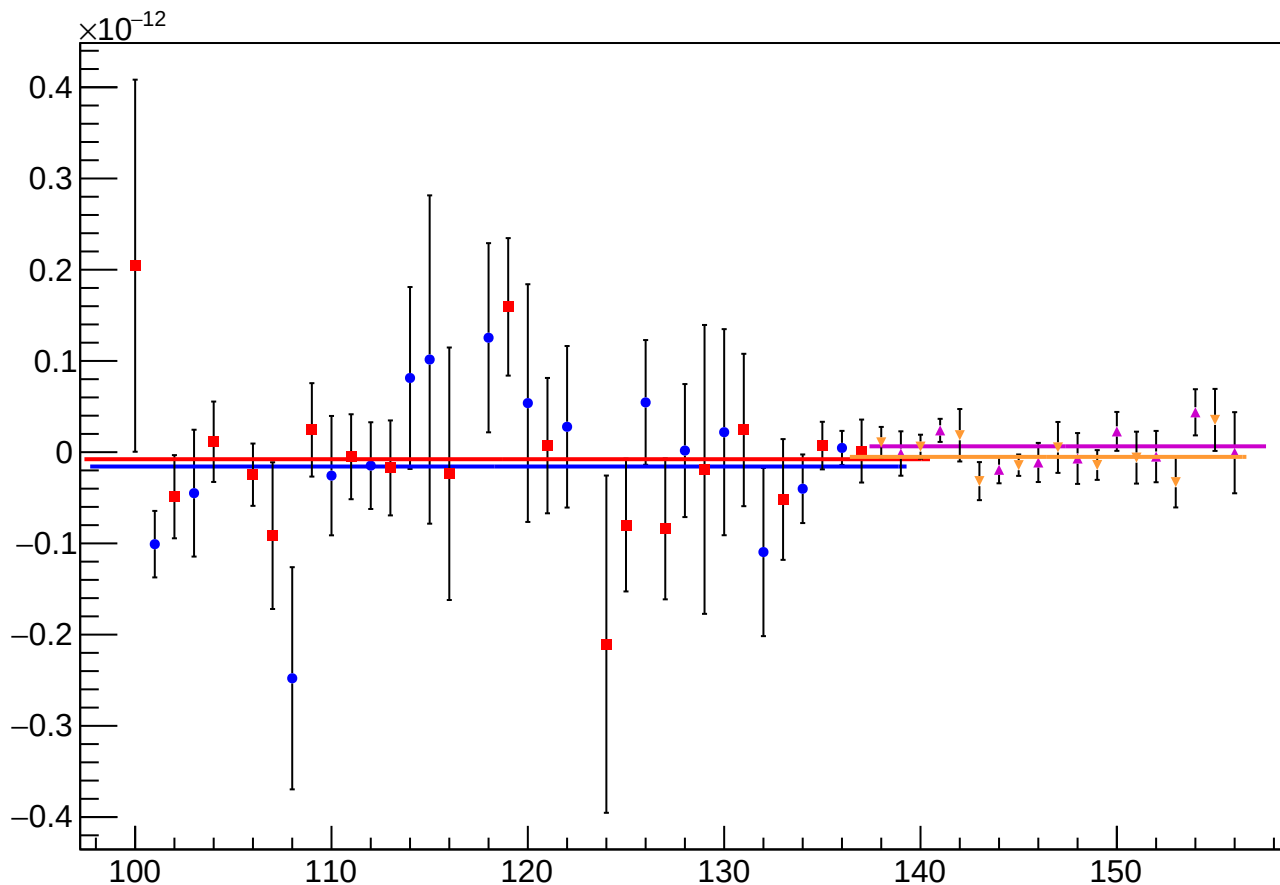
Right: 618.368 $\pm$ 0.118 χ^2 /NDF: 1548821.0/34

In: 520.654 $\pm$ 0.099 χ^2 /NDF: 1917883.4/24

Out: 515.402 $\pm$ 0.097 χ^2 /NDF: 2000787.3/28

All: 517.979 $\pm$ 0.069 χ^2 /NDF: 3920118.1/53

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 : 7.4/9

Right Out: -0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.9/8

Left: -0.000+/-0.000 χ^2/NDF : 17.9/18

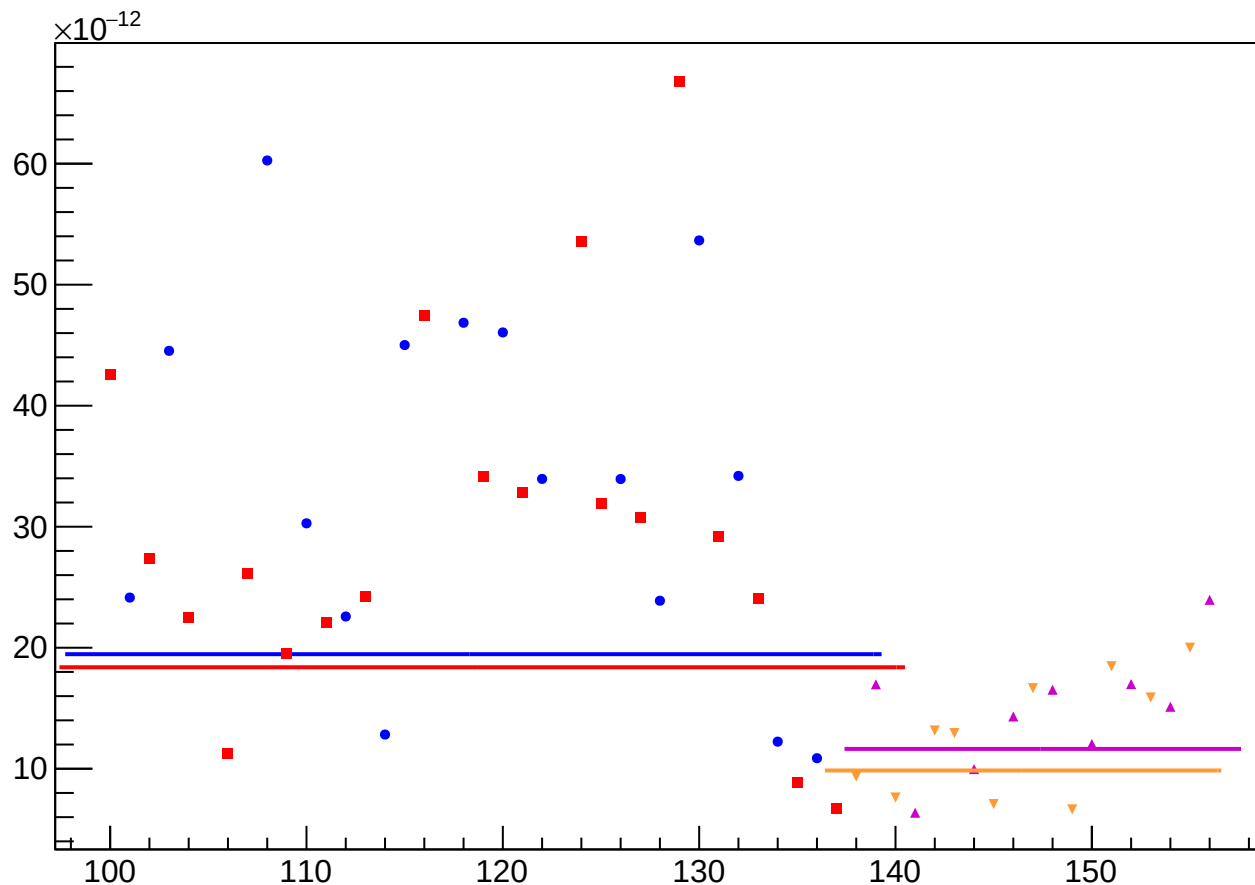
Right: -0.000+/-0.000 χ^2/NDF : 30.1/34

In: 0.000+/-0.000 χ^2/NDF : 28.2/24

Out: -0.000+/-0.000 χ^2/NDF : 20.4/28

All: -0.000+/-0.000 χ^2/NDF : 49.3/53

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 : 895787.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1444777.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 826396.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1800060.9/18

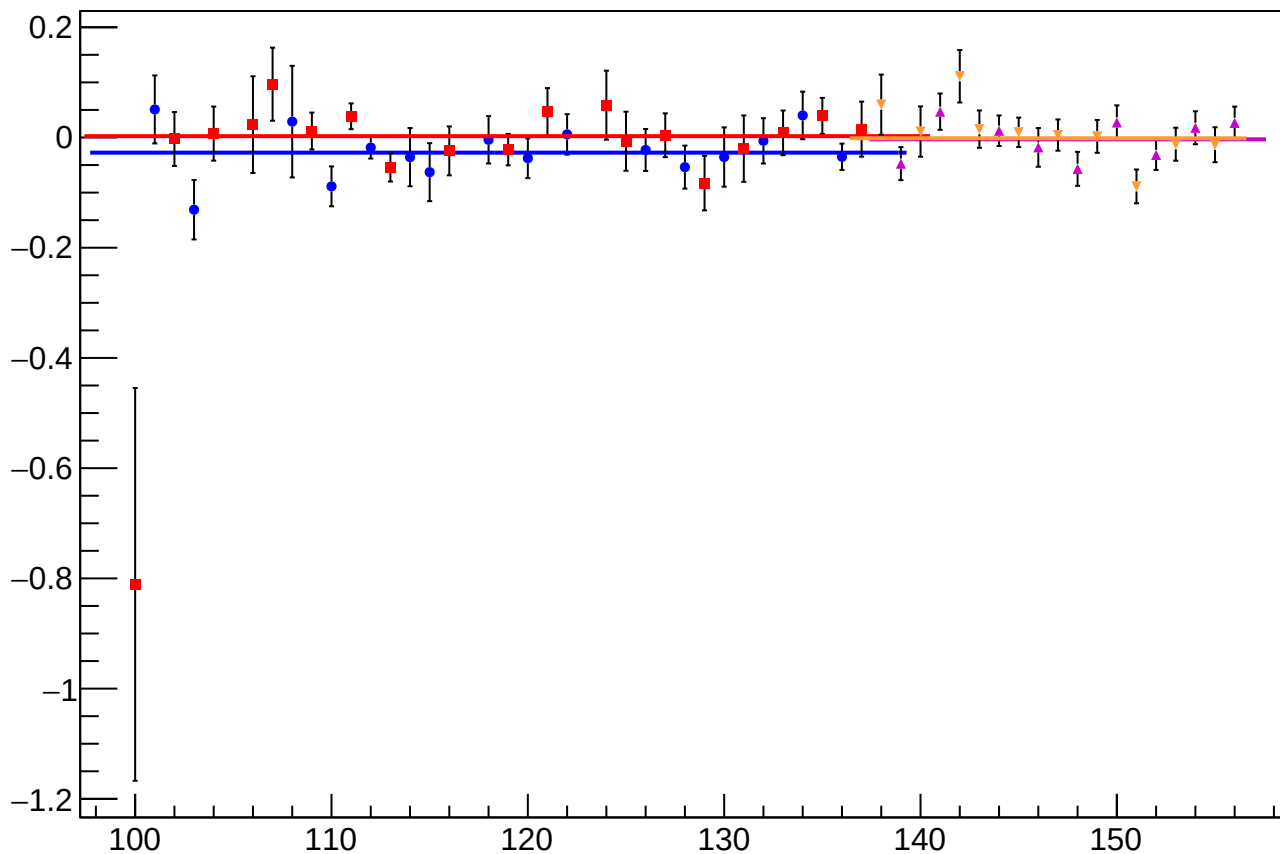
Right: 0.000+/-0.000 χ^2/NDF : 3187950.4/34

In: 0.000+/-0.000 χ^2/NDF : 3158112.8/24

Out: 0.000+/-0.000 χ^2/NDF : 3136084.6/28

All: 0.000+/-0.000 χ^2/NDF : 6409126.1/53

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 $\chi^2/\text{NDF}: 13.7/15$

Left Out: -0.001 ± 0.010 $\chi^2/\text{NDF}: 15.8/9$

Right Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 22.1/18$

Left In: -0.003 ± 0.010 $\chi^2/\text{NDF}: 11.6/8$

Left: -0.002 ± 0.007 $\chi^2/\text{NDF}: 27.3/18$

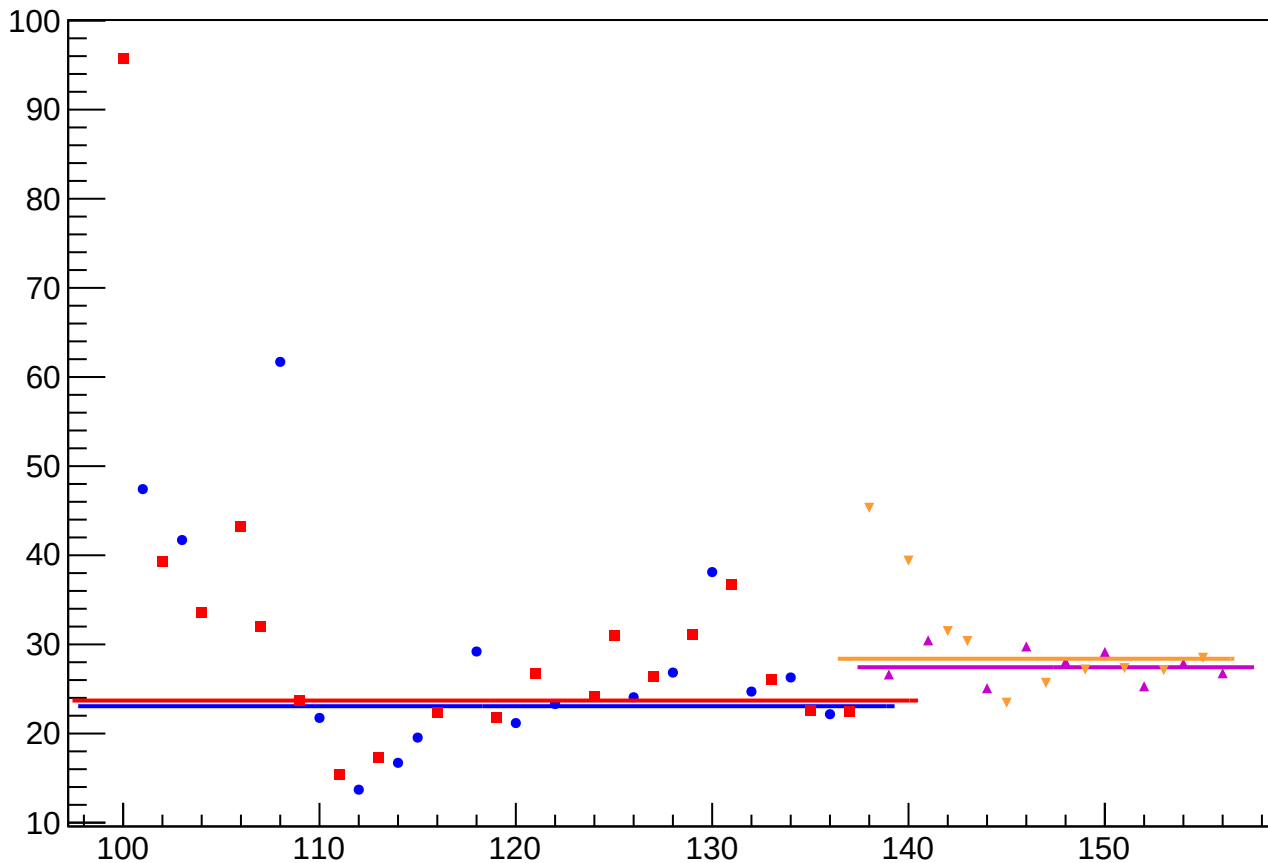
Right: -0.012 ± 0.007 $\chi^2/\text{NDF}: 40.9/34$

In: -0.016 ± 0.007 $\chi^2/\text{NDF}: 28.3/24$

Out: 0.001 ± 0.007 $\chi^2/\text{NDF}: 37.9/28$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 69.3/53$

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.066+/-0.007 χ^2/NDF : 1564478.6/15

Left Out: 28.392+/-0.007 χ^2/NDF : 420537.9/9

Right Out: 23.702+/-0.007 χ^2/NDF : 1088494.2/18

Left In: 27.439+/-0.007 χ^2/NDF : 62085.6/8

Left: 27.896+/-0.005 χ^2/NDF : 491204.5/18

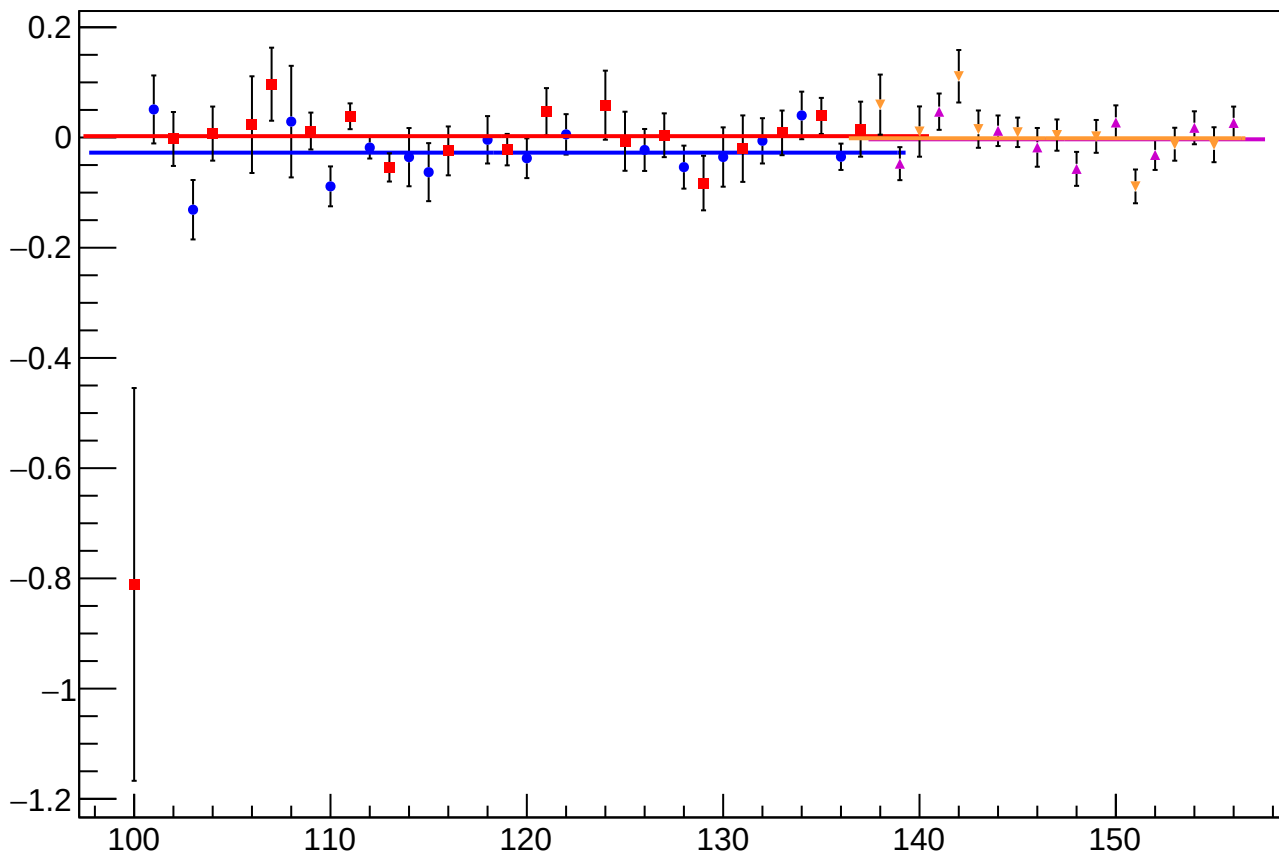
Right: 23.387+/-0.005 χ^2/NDF : 2657617.1/34

In: 25.099+/-0.005 χ^2/NDF : 1828096.4/24

Out: 25.763+/-0.005 χ^2/NDF : 1732862.4/28

All: 25.427+/-0.003 χ^2/NDF : 3570173.3/53

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: -0.001 ± 0.010 χ^2/NDF : 15.8/9

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.003 ± 0.010 χ^2/NDF : 11.6/8

Left: -0.002 ± 0.007 χ^2/NDF : 27.3/18

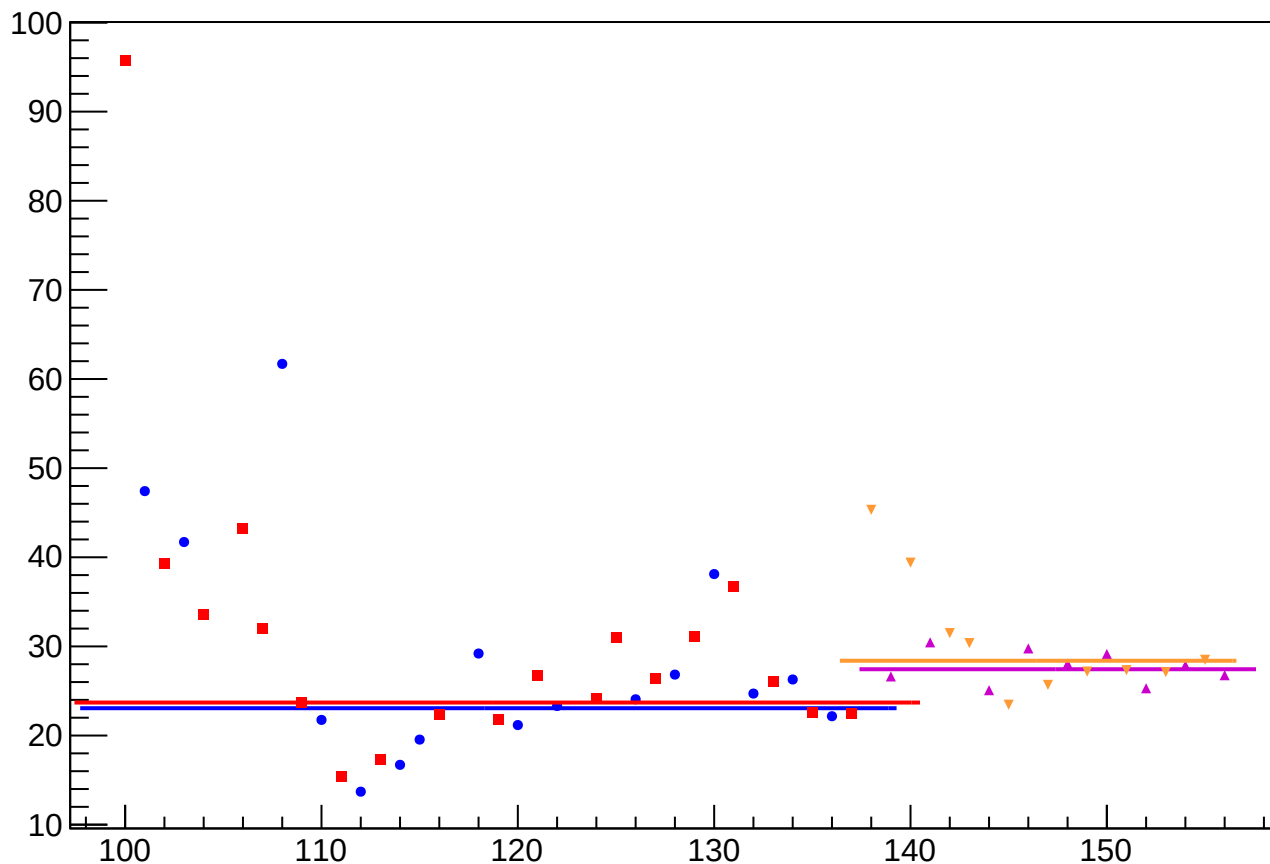
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.016 ± 0.007 χ^2/NDF : 28.3/24

Out: 0.001 ± 0.007 χ^2/NDF : 37.9/28

All: -0.008 ± 0.005 χ^2/NDF : 69.3/53

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: 28.392 $\pm$ 0.007 χ^2 /NDF:420537.9/9

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088494.2/18

Left In: 27.439 $\pm$ 0.007 χ^2 /NDF:62085.6/8

Left: 27.896 $\pm$ 0.005 χ^2 /NDF: 491204.5/18

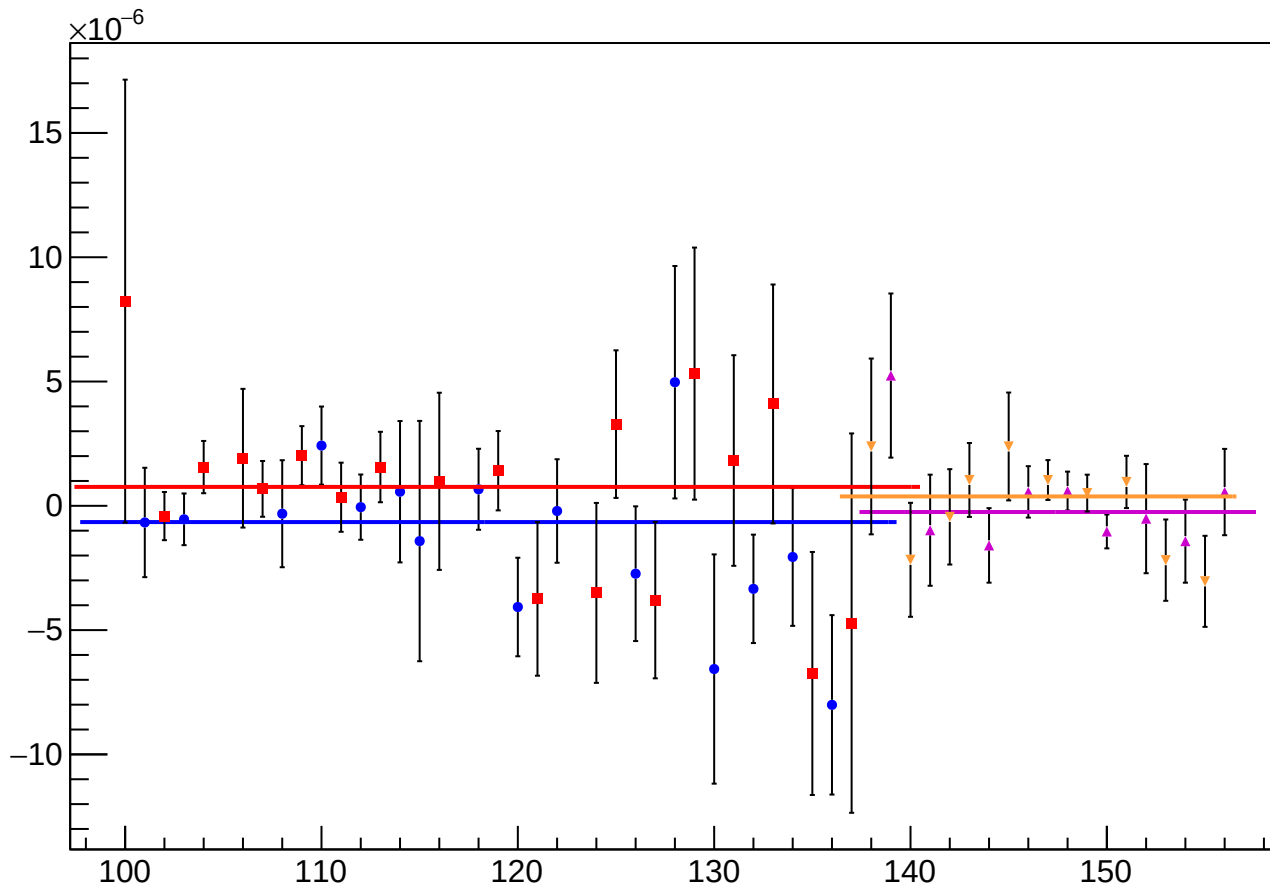
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657617.1/34

In: 25.099 $\pm$ 0.005 χ^2 /NDF:1828096.4/24

Out: 25.763 $\pm$ 0.005 χ^2 /NDF:1732862.4/28

All: 25.427 $\pm$ 0.003 χ^2 /NDF: 3570173.3/53

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 : 9.8/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.5/8

Left: 0.000 ± 0.000 χ^2/NDF : 18.5/18

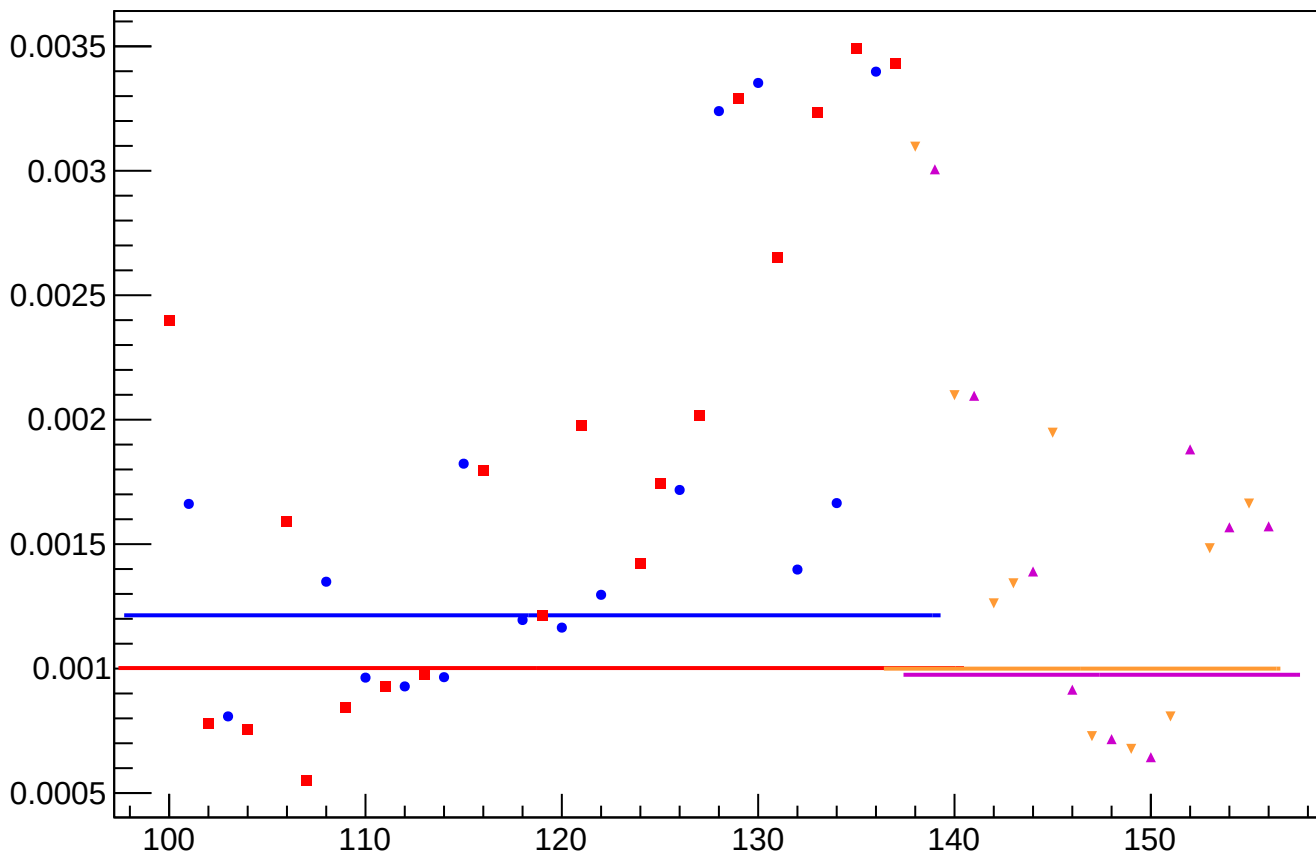
Right: 0.000 ± 0.000 χ^2/NDF : 37.5/34

In: -0.000 ± 0.000 χ^2/NDF : 25.5/24

Out: 0.000 ± 0.000 χ^2/NDF : 25.4/28

All: 0.000 ± 0.000 χ^2/NDF : 56.0/53

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: 0.001+/-0.000 χ^2/NDF : 2798943.7/9

Right Out: 0.001+/-0.000 χ^2/NDF : 3277225.7/18

Left In: 0.001+/-0.000 χ^2/NDF : 2939210.3/8

Left: 0.001+/-0.000 χ^2/NDF : 5741977.1/18

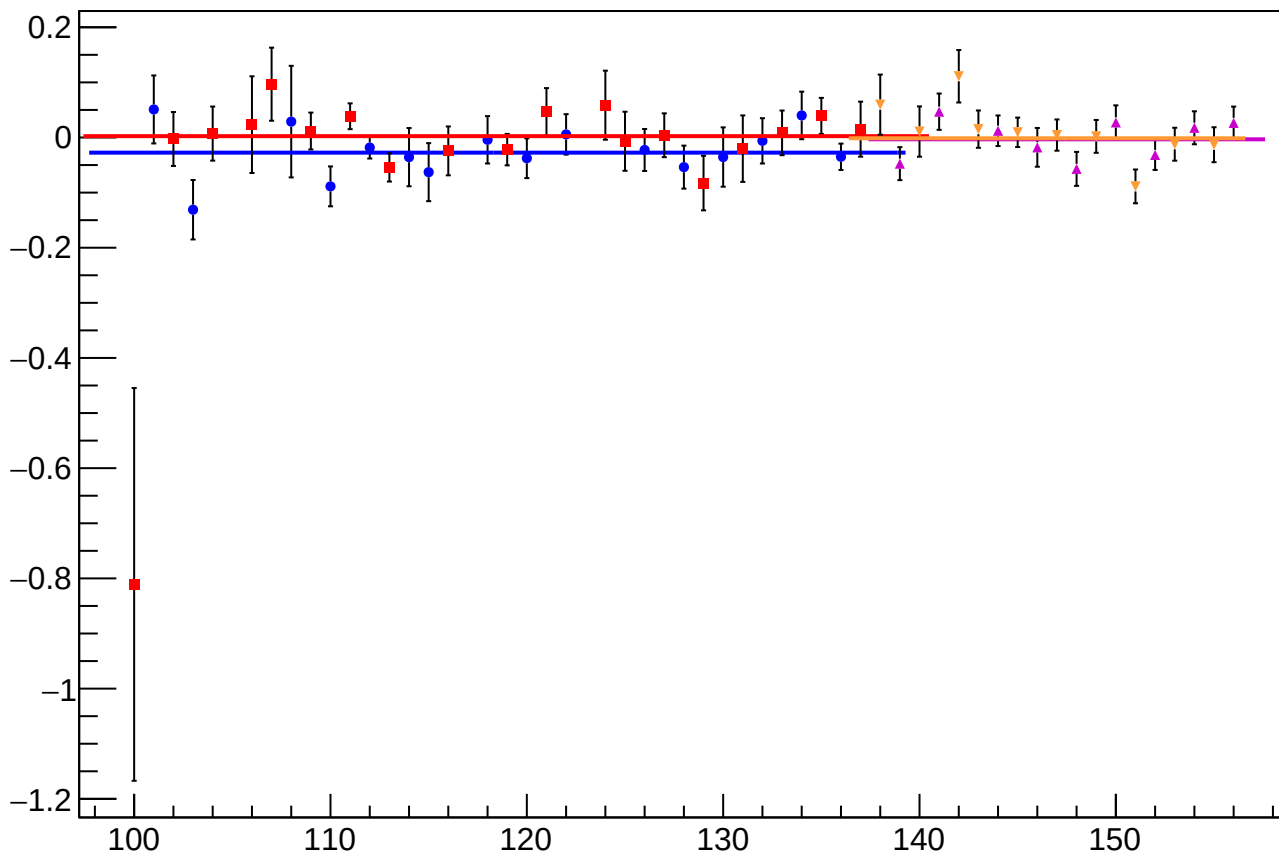
Right: 0.001+/-0.000 χ^2/NDF : 5755876.1/34

In: 0.001+/-0.000 χ^2/NDF : 5487296.0/24

Out: 0.001+/-0.000 χ^2/NDF : 6076199.6/28

All: 0.001+/-0.000 χ^2/NDF : 11612441.5/53

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: -0.001 ± 0.010 χ^2/NDF : 15.8/9

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.003 ± 0.010 χ^2/NDF : 11.6/8

Left: -0.002 ± 0.007 χ^2/NDF : 27.3/18

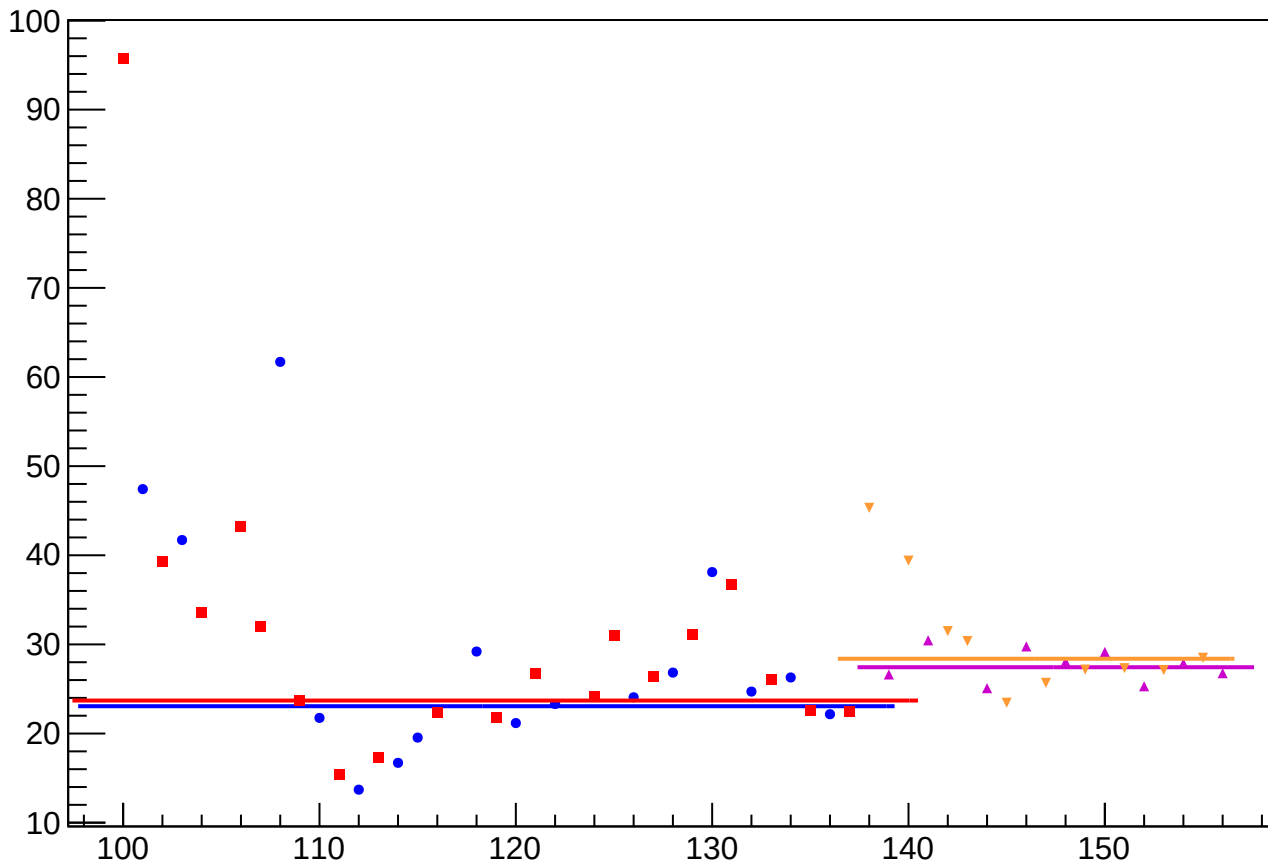
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.016 ± 0.007 χ^2/NDF : 28.3/24

Out: 0.001 ± 0.007 χ^2/NDF : 37.9/28

All: -0.008 ± 0.005 χ^2/NDF : 69.3/53

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: 28.392 $\pm$ 0.007 χ^2 /NDF:420498.5/9

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088531.8/18

Left In: 27.439 $\pm$ 0.007 χ^2 /NDF:62076.3/8

Left: 27.896 $\pm$ 0.005 χ^2 /NDF: 491158.0/18

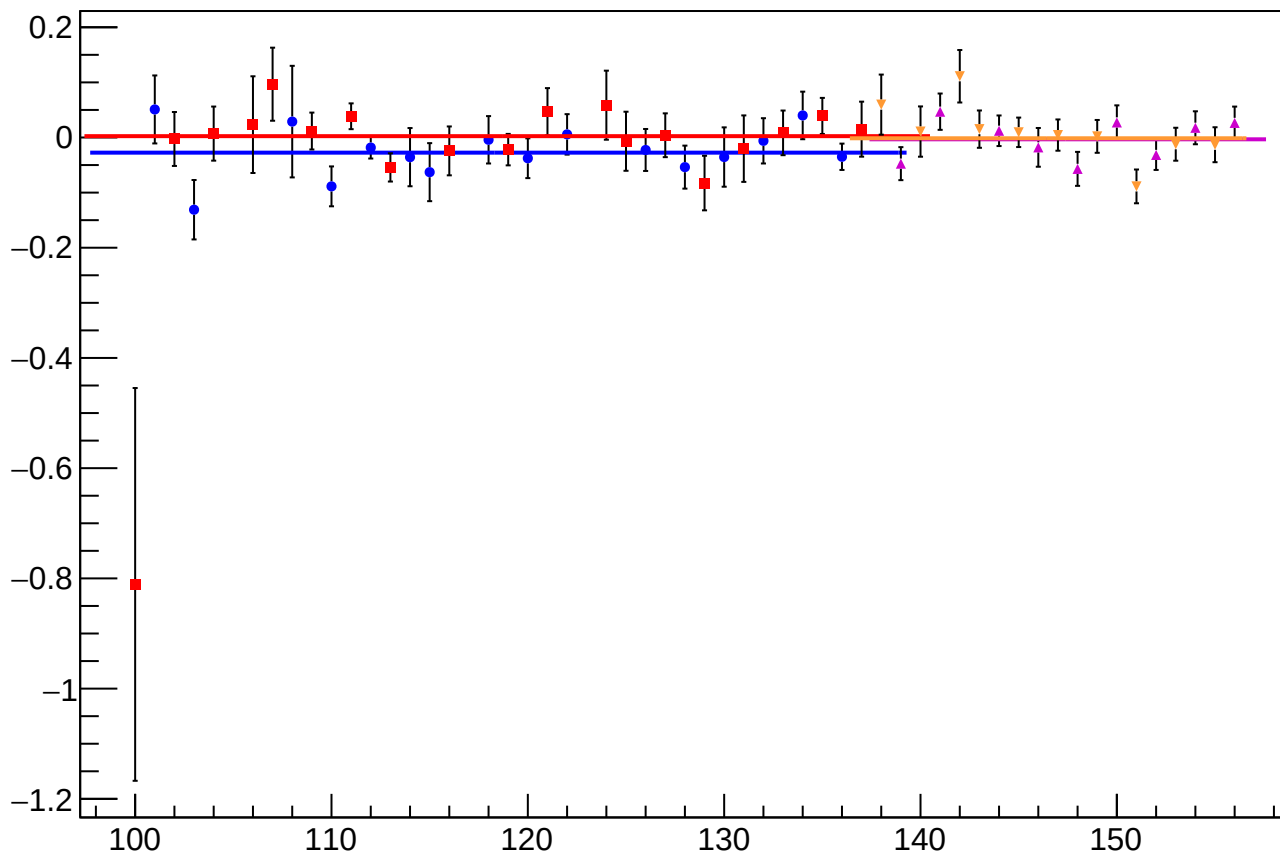
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657668.5/34

In: 25.099 $\pm$ 0.005 χ^2 /NDF:1828139.3/24

Out: 25.763 $\pm$ 0.005 χ^2 /NDF:1732915.8/28

All: 25.427 $\pm$ 0.003 χ^2 /NDF: 3570269.9/53

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 $\chi^2/\text{NDF}: 13.7/15$

Left Out: -0.001 ± 0.010 $\chi^2/\text{NDF}: 15.8/9$

Right Out: 0.002 ± 0.009 $\chi^2/\text{NDF}: 22.1/18$

Left In: -0.003 ± 0.010 $\chi^2/\text{NDF}: 11.6/8$

Left: -0.002 ± 0.007 $\chi^2/\text{NDF}: 27.3/18$

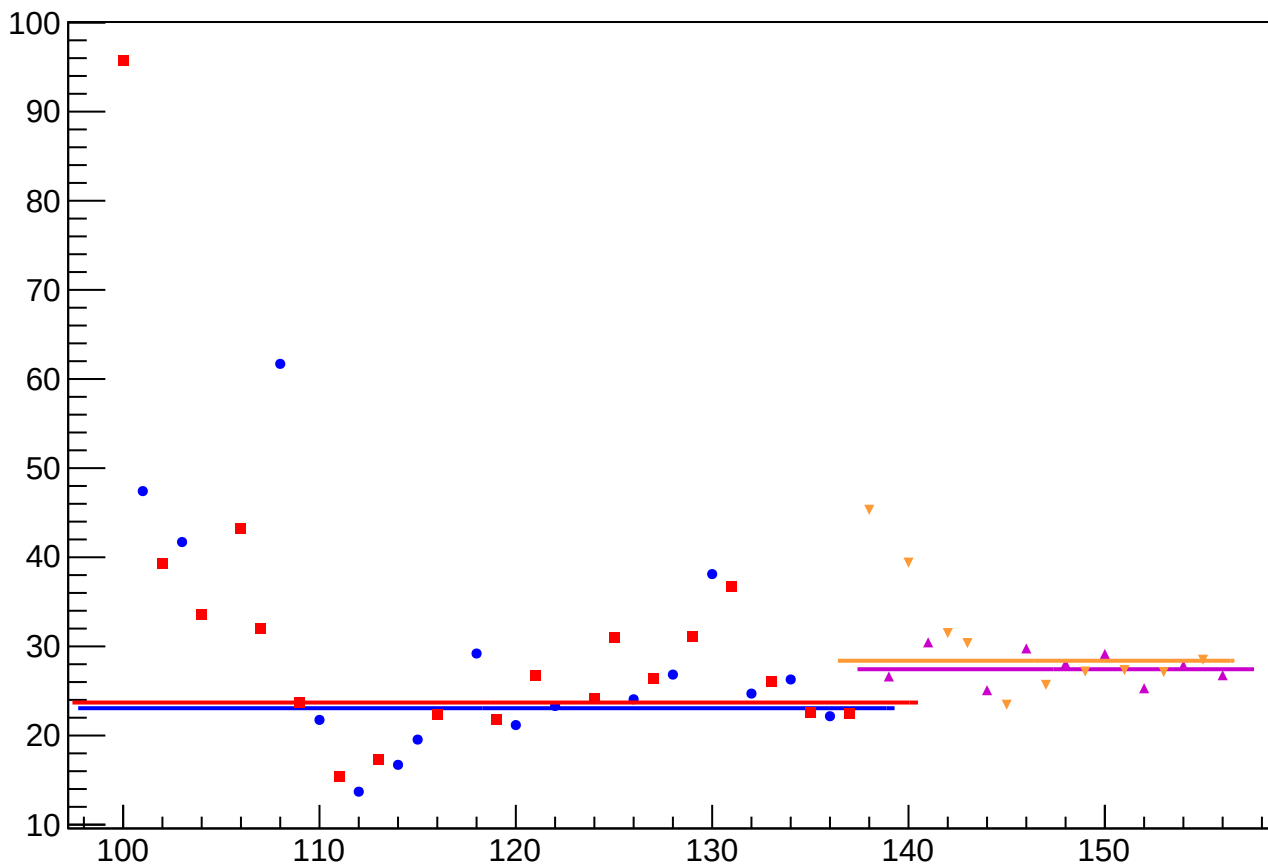
Right: -0.012 ± 0.007 $\chi^2/\text{NDF}: 40.9/34$

In: -0.016 ± 0.007 $\chi^2/\text{NDF}: 28.3/24$

Out: 0.001 ± 0.007 $\chi^2/\text{NDF}: 37.9/28$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 69.3/53$

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: 28.392 $\pm$ 0.007 χ^2 /NDF: 420498.5/9

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088531.8/18

Left In: 27.439 $\pm$ 0.007 χ^2 /NDF: 62076.3/8

Left: 27.896 $\pm$ 0.005 χ^2 /NDF: 491158.0/18

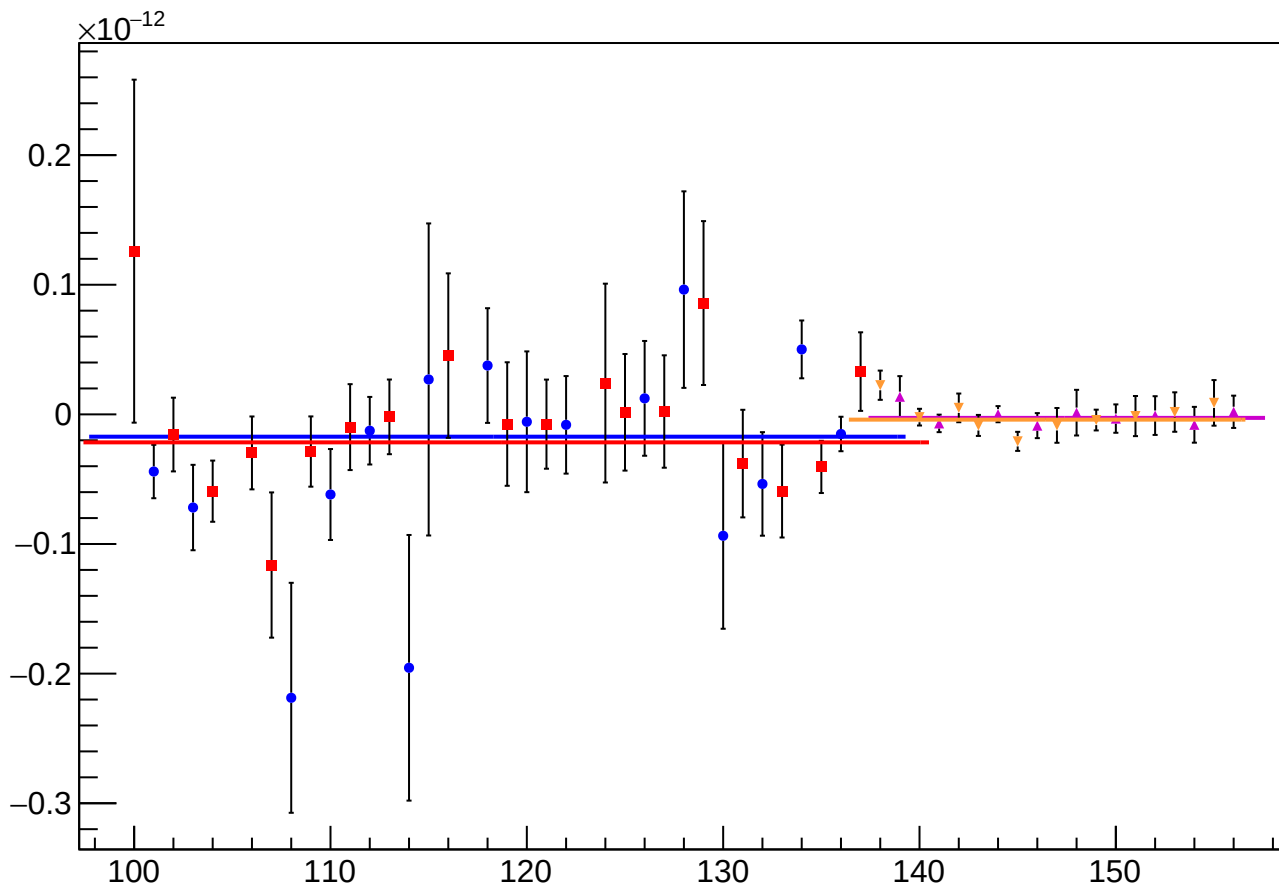
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657668.5/34

In: 25.099 $\pm$ 0.005 χ^2 /NDF: 1828139.3/24

Out: 25.763 $\pm$ 0.005 χ^2 /NDF: 1732915.8/28

All: 25.427 $\pm$ 0.003 χ^2 /NDF: 3570269.9/53

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 : 12.6/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 2.4/8

Left: -0.000+/-0.000 χ^2/NDF : 15.1/18

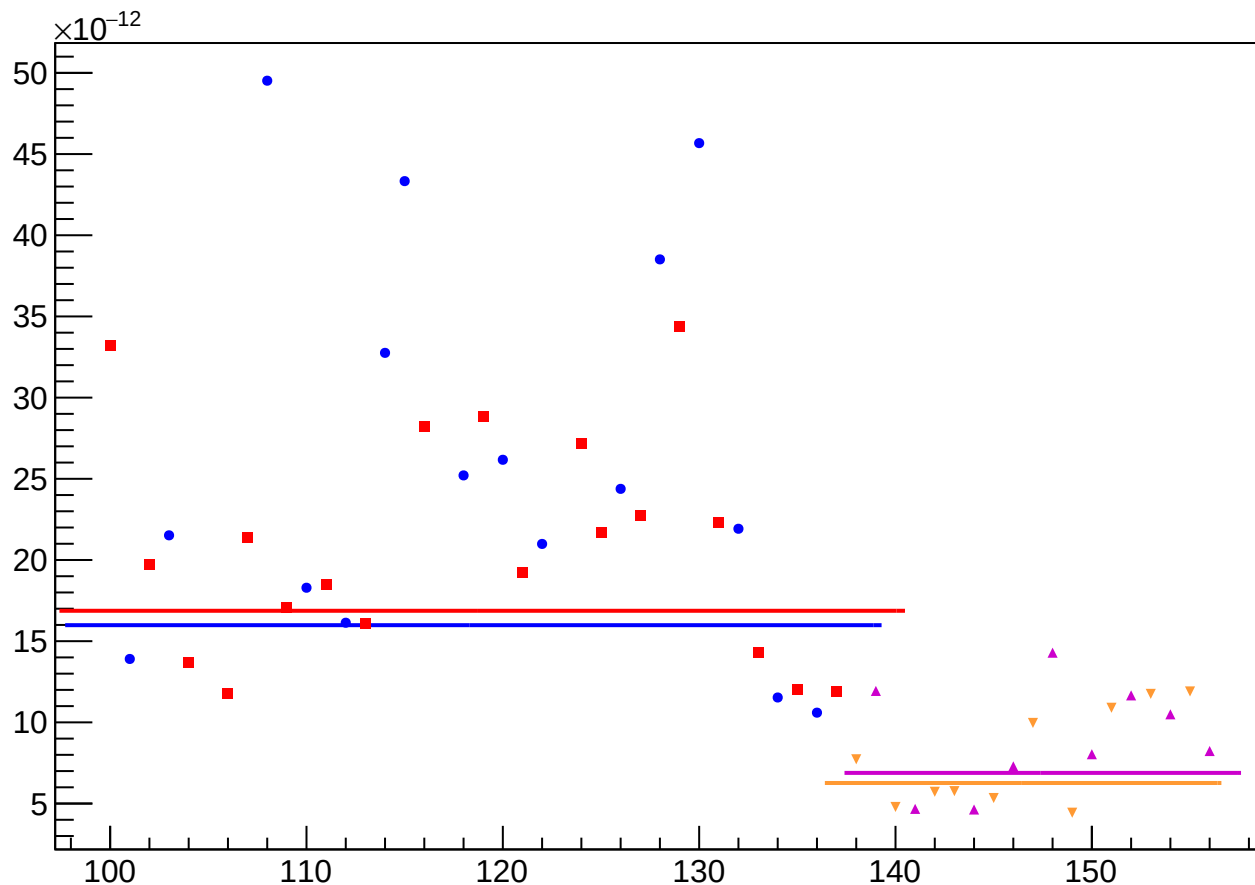
Right: -0.000+/-0.000 χ^2/NDF : 48.0/34

In: -0.000+/-0.000 χ^2/NDF : 35.2/24

Out: -0.000+/-0.000 χ^2/NDF : 34.9/28

All: -0.000+/-0.000 χ^2/NDF : 70.3/53

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 :1083705.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 835680.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1422963.2/8

Left: 0.000+/-0.000 χ^2/NDF : 2544435.2/18

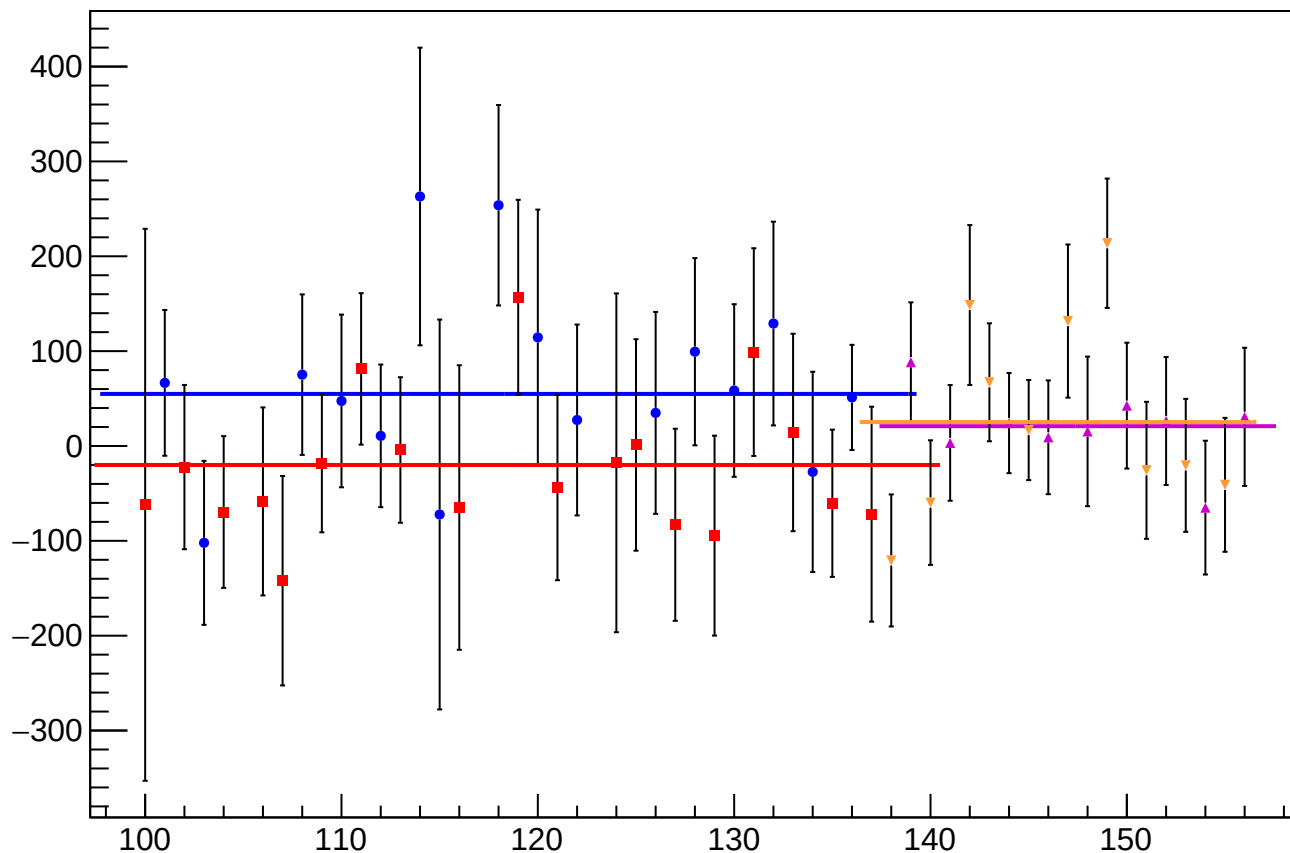
Right: 0.000+/-0.000 χ^2/NDF : 2613122.2/34

In: 0.000+/-0.000 χ^2/NDF :5506381.8/24

Out: 0.000+/-0.000 χ^2/NDF :5058121.5/28

All: 0.000+/-0.000 χ^2/NDF : 10612408.4/53

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: 25.195 $\pm$ 21.512 χ^2 /NDF:19.9/9

Right Out: -20.020 $\pm$ 22.571 χ^2 /NDF: 9.2/18

Left In: 20.862 $\pm$ 21.550 χ^2 /NDF:2.9/8

Left: 23.032 $\pm$ 15.225 χ^2 /NDF: 22.8/18

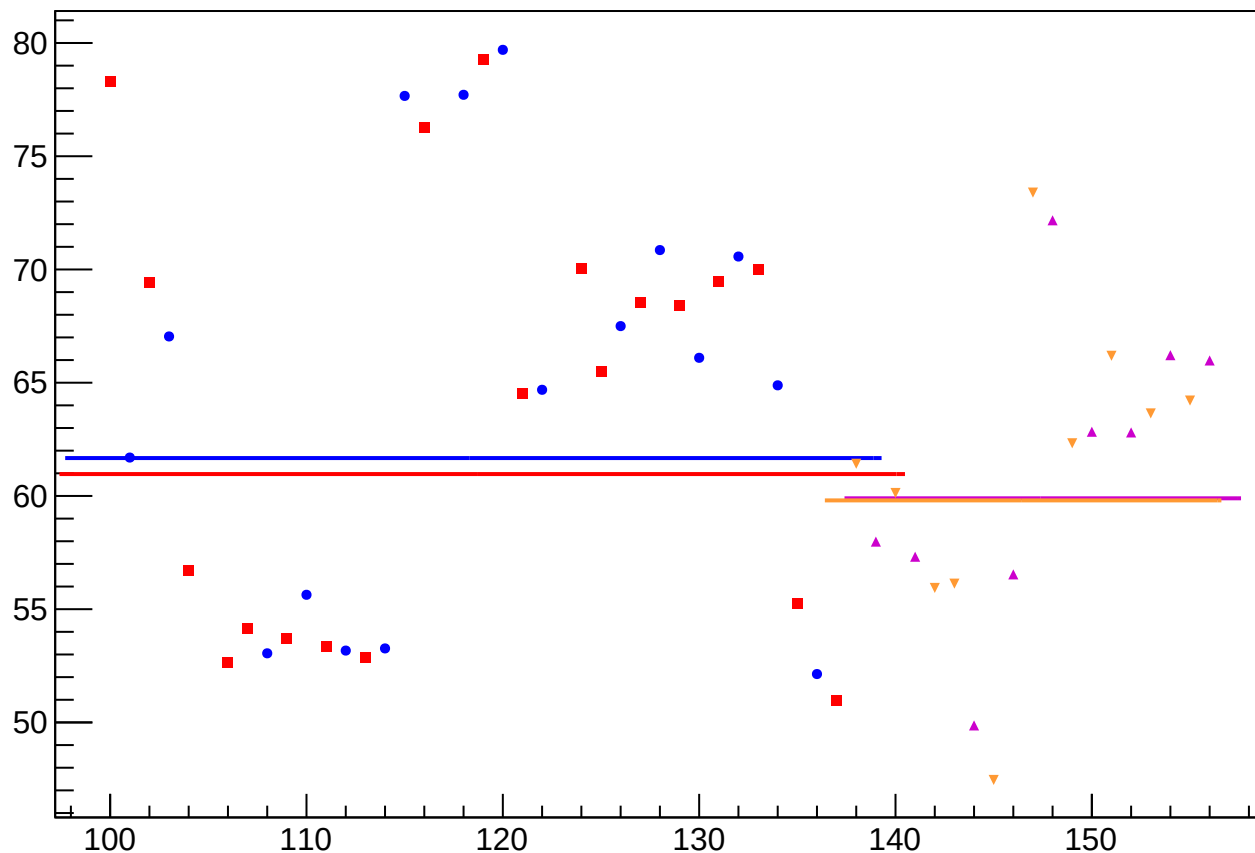
Right: 16.437 $\pm$ 16.171 χ^2 /NDF: 25.6/34

In: 36.636 $\pm$ 15.783 χ^2 /NDF:15.1/24

Out: 3.673 $\pm$ 15.572 χ^2 /NDF:31.2/28

All: 19.933 $\pm$ 11.085 χ^2 /NDF: 48.5/53

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: 59.804 $\pm$ 0.015 χ^2 /NDF: 210559.8/9

Right Out: 60.967 $\pm$ 0.016 χ^2 /NDF: 284183.4/18

Left In: 59.896 $\pm$ 0.015 χ^2 /NDF: 169840.8/8

Left: 59.850 $\pm$ 0.011 χ^2 /NDF: 380418.8/18

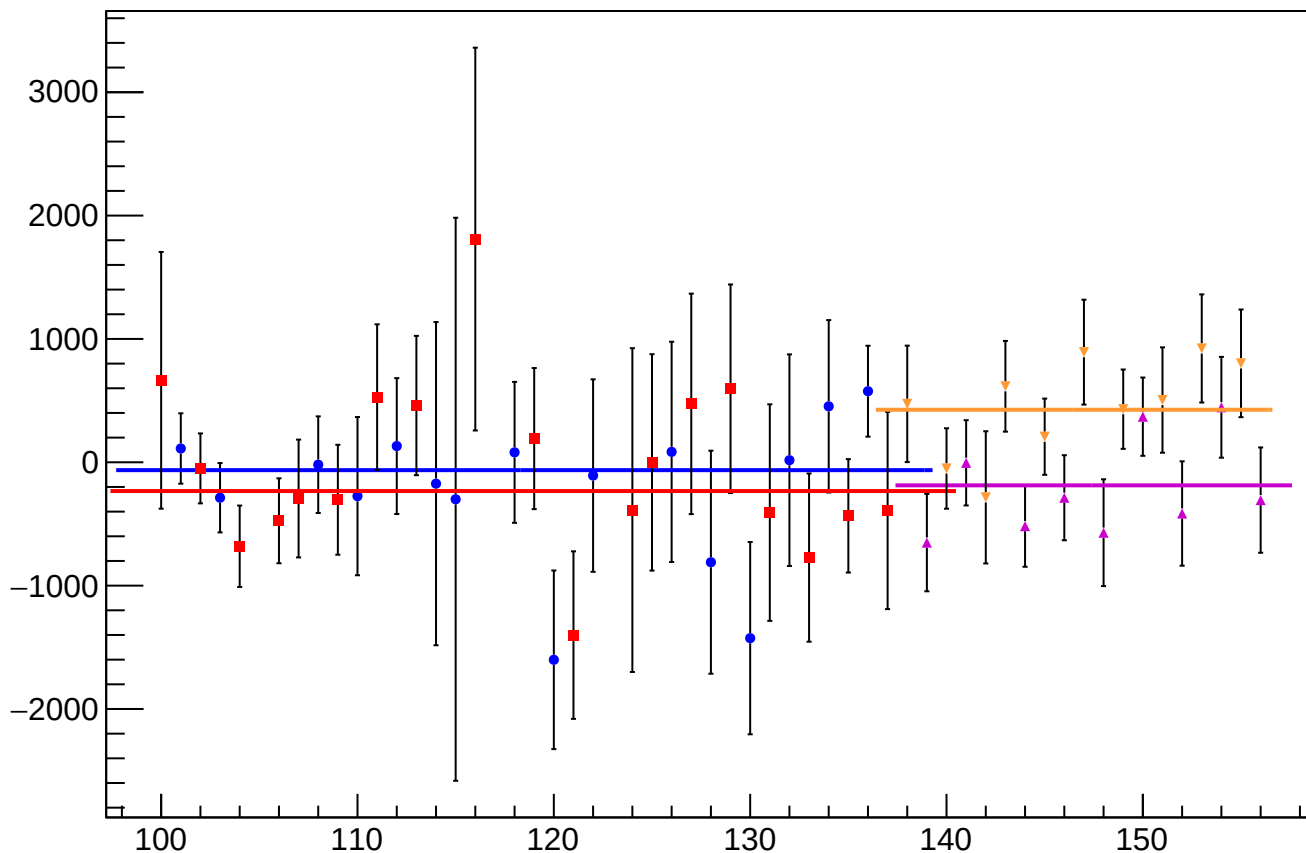
Right: 61.310 $\pm$ 0.011 χ^2 /NDF: 552244.9/34

In: 60.720 $\pm$ 0.011 χ^2 /NDF: 443255.1/24

Out: 60.357 $\pm$ 0.011 χ^2 /NDF: 497524.4/28

All: 60.536 $\pm$ 0.008 χ^2 /NDF: 941314.0/53

asym_sam_37_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -63.834 ± 129.674 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 425.933 ± 122.736 $\chi^2/\text{NDF}: 7.9/9$

Right Out: -233.206 ± 122.791 $\chi^2/\text{NDF}: 14.5/18$

Left In: -186.965 ± 124.286 $\chi^2/\text{NDF}: 9.4/8$

Left: 123.329 ± 87.330 $\chi^2/\text{NDF}: 29.6/18$

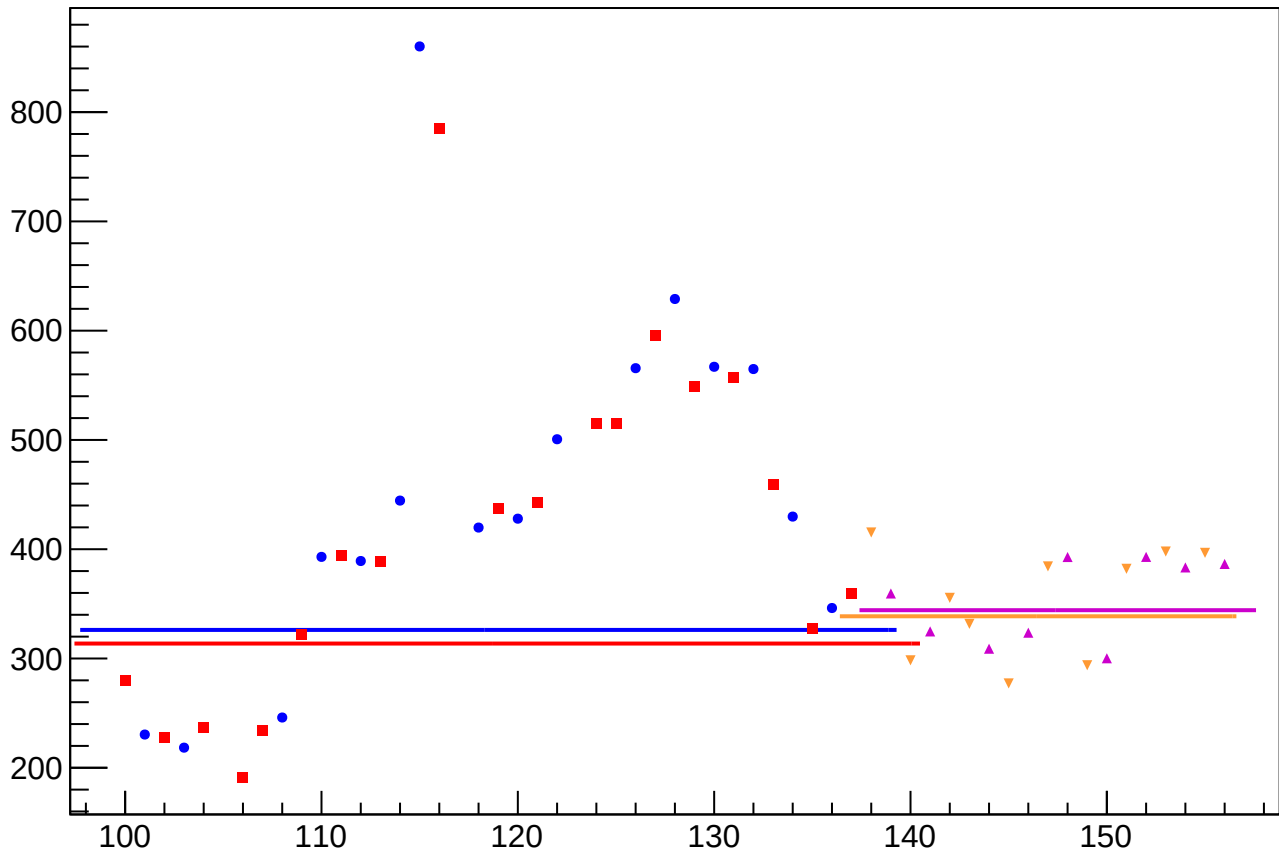
Right: -153.135 ± 89.161 $\chi^2/\text{NDF}: 28.6/34$

In: -128.011 ± 89.728 $\chi^2/\text{NDF}: 23.0/24$

Out: 96.510 ± 86.807 $\chi^2/\text{NDF}: 36.9/28$

All: -12.037 ± 62.389 $\chi^2/\text{NDF}: 63.1/53$

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 326.147 $\pm$ 0.092 χ^2 /NDF: 1733995.5/15

Left Out: 338.623 $\pm$ 0.087 χ^2 /NDF:319693.3/9

Right Out: 313.672 $\pm$ 0.087 χ^2 /NDF: 1787347.3/18

Left In: 344.198 $\pm$ 0.088 χ^2 /NDF:167622.6/8

Left: 341.376 $\pm$ 0.062 χ^2 /NDF: 489353.0/18

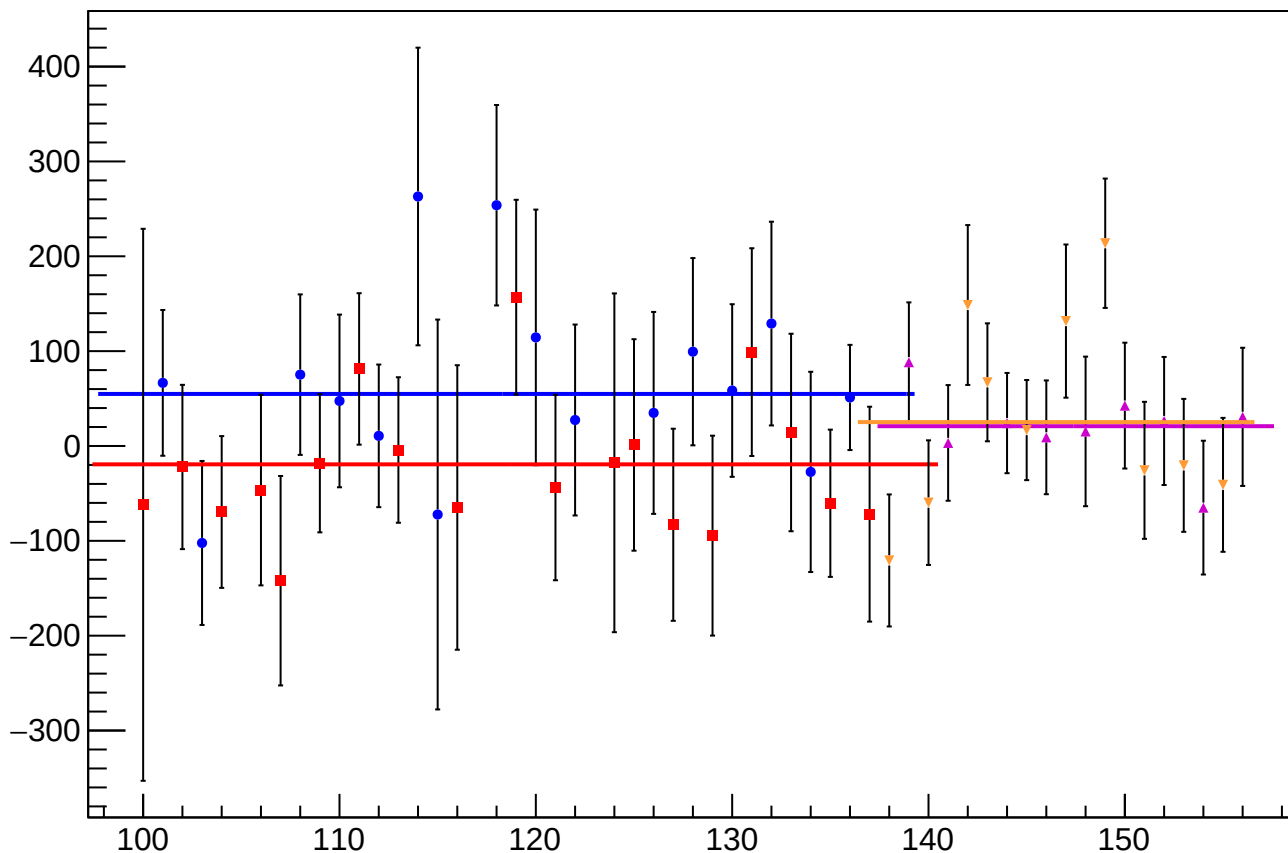
Right: 319.570 $\pm$ 0.063 χ^2 /NDF: 3531102.5/34

In: 335.556 $\pm$ 0.063 χ^2 /NDF:1921817.0/24

Out: 326.153 $\pm$ 0.061 χ^2 /NDF:2148350.3/28

All: 330.699 $\pm$ 0.044 χ^2 /NDF: 4081510.9/53

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: 25.191+/-21.512 χ^2/NDF : 19.9/9

Right Out: -19.352+/-22.588 χ^2/NDF : 9.2/18

Left In: 20.861+/-21.550 χ^2/NDF : 2.9/8

Left: 23.030+/-15.225 χ^2/NDF : 22.8/18

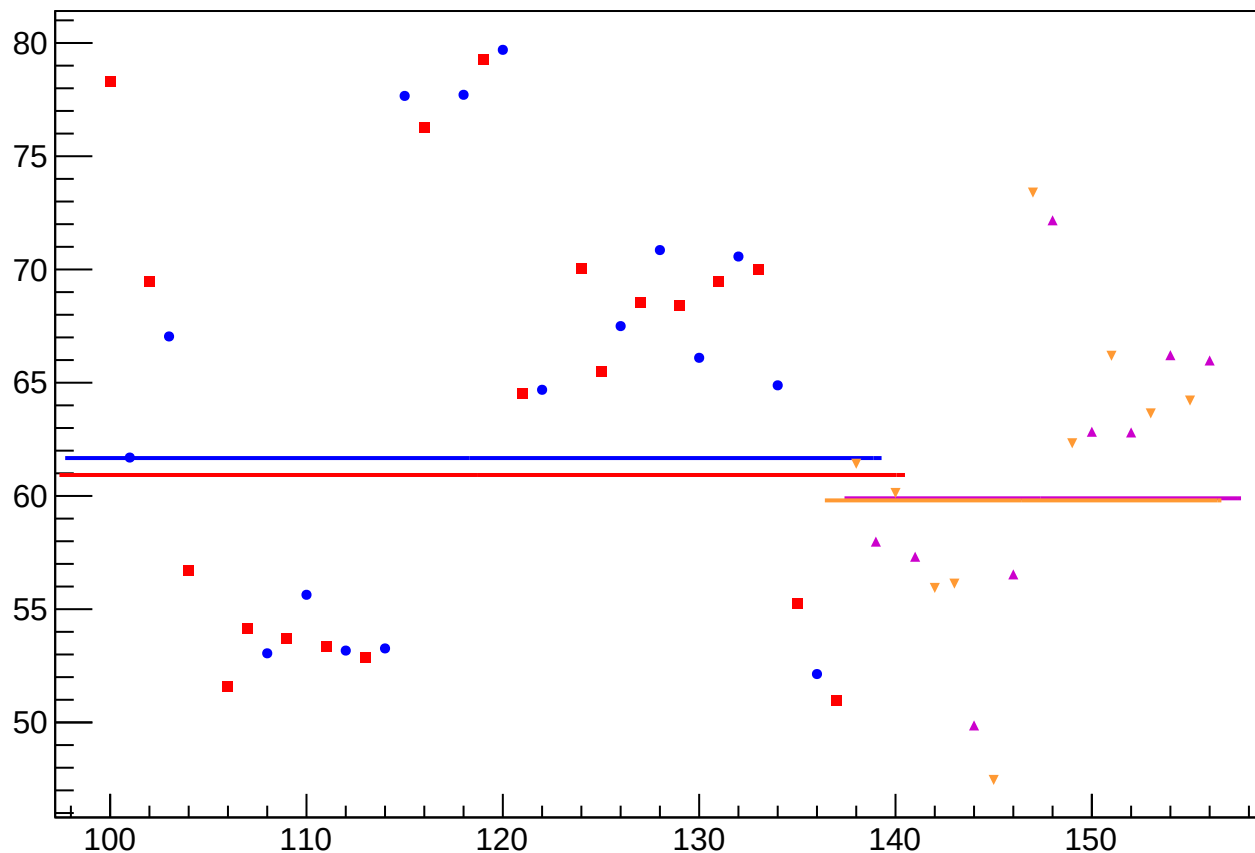
Right: 16.804+/-16.177 χ^2/NDF : 25.4/34

In: 36.632+/-15.783 χ^2/NDF : 15.1/24

Out: 4.005+/-15.578 χ^2/NDF : 31.1/28

All: 20.105+/-11.087 χ^2/NDF : 48.3/53

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: 59.804 $\pm$ 0.015 χ^2/NDF : 210559.8/9

Right Out: 60.926 $\pm$ 0.016 χ^2/NDF : 287579.6/18

Left In: 59.896 $\pm$ 0.015 χ^2/NDF : 169840.8/8

Left: 59.850 $\pm$ 0.011 χ^2/NDF : 380418.8/18

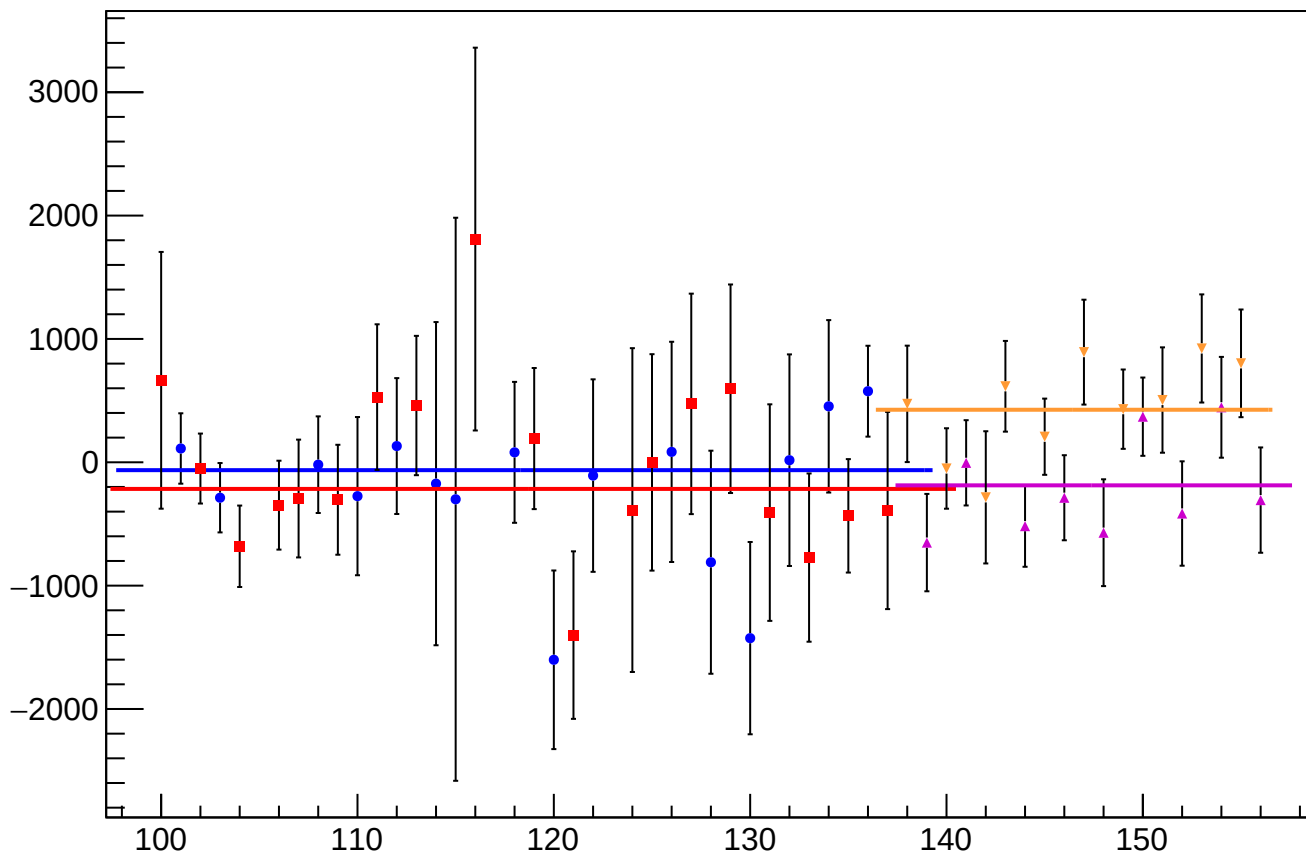
Right: 61.290 $\pm$ 0.011 χ^2/NDF : 555754.0/34

In: 60.720 $\pm$ 0.011 χ^2/NDF : 443255.3/24

Out: 60.337 $\pm$ 0.011 χ^2/NDF : 500726.8/28

All: 60.526 $\pm$ 0.008 χ^2/NDF : 944576.6/53

asym_sam_37_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 425.932 ± 122.736 $\chi^2/\text{NDF}: 7.9/9$

Right Out: -215.911 ± 123.491 $\chi^2/\text{NDF}: 14.1/18$

Left In: -186.963 ± 124.286 $\chi^2/\text{NDF}: 9.4/8$

Left: 123.329 ± 87.330 $\chi^2/\text{NDF}: 29.6/18$

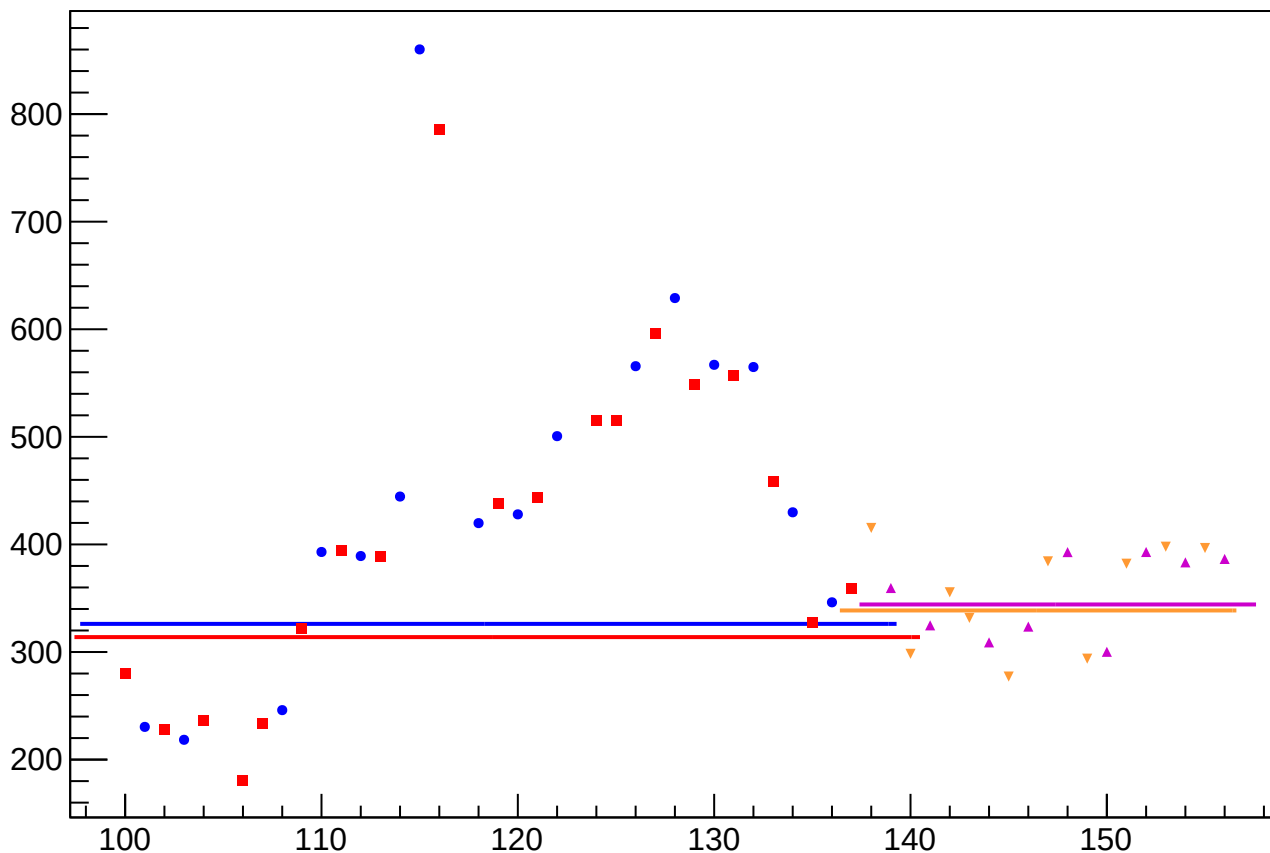
Right: -143.578 ± 89.428 $\chi^2/\text{NDF}: 28.0/34$

In: -128.004 ± 89.728 $\chi^2/\text{NDF}: 23.0/24$

Out: 106.978 ± 87.053 $\chi^2/\text{NDF}: 35.6/28$

All: -6.958 ± 62.480 $\chi^2/\text{NDF}: 62.2/53$

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: 338.624+/-0.087 χ^2/NDF :319693.4/9

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 344.198+/-0.088 χ^2/NDF :167620.6/8

Left: 341.376+/-0.062 χ^2/NDF : 489351.2/18

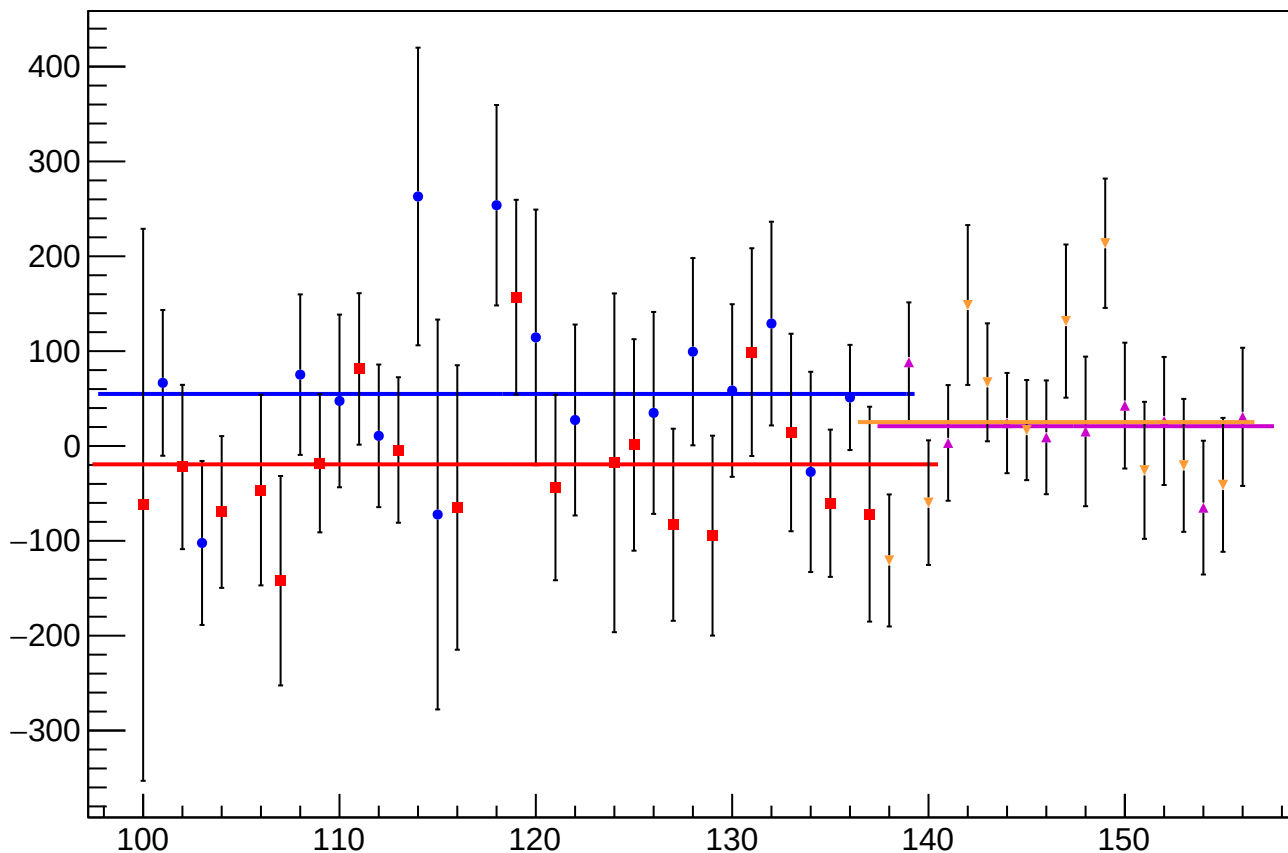
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 335.557+/-0.063 χ^2/NDF :1921747.9/24

Out: 326.318+/-0.062 χ^2/NDF :2165928.4/28

All: 330.798+/-0.044 χ^2/NDF : 4098599.2/53

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: 25.191 $\pm$ 21.512 χ^2 /NDF:19.9/9

Right Out: -19.352 $\pm$ 22.588 χ^2 /NDF: 9.2/18

Left In: 20.861 $\pm$ 21.550 χ^2 /NDF:2.9/8

Left: 23.030 $\pm$ 15.225 χ^2 /NDF: 22.8/18

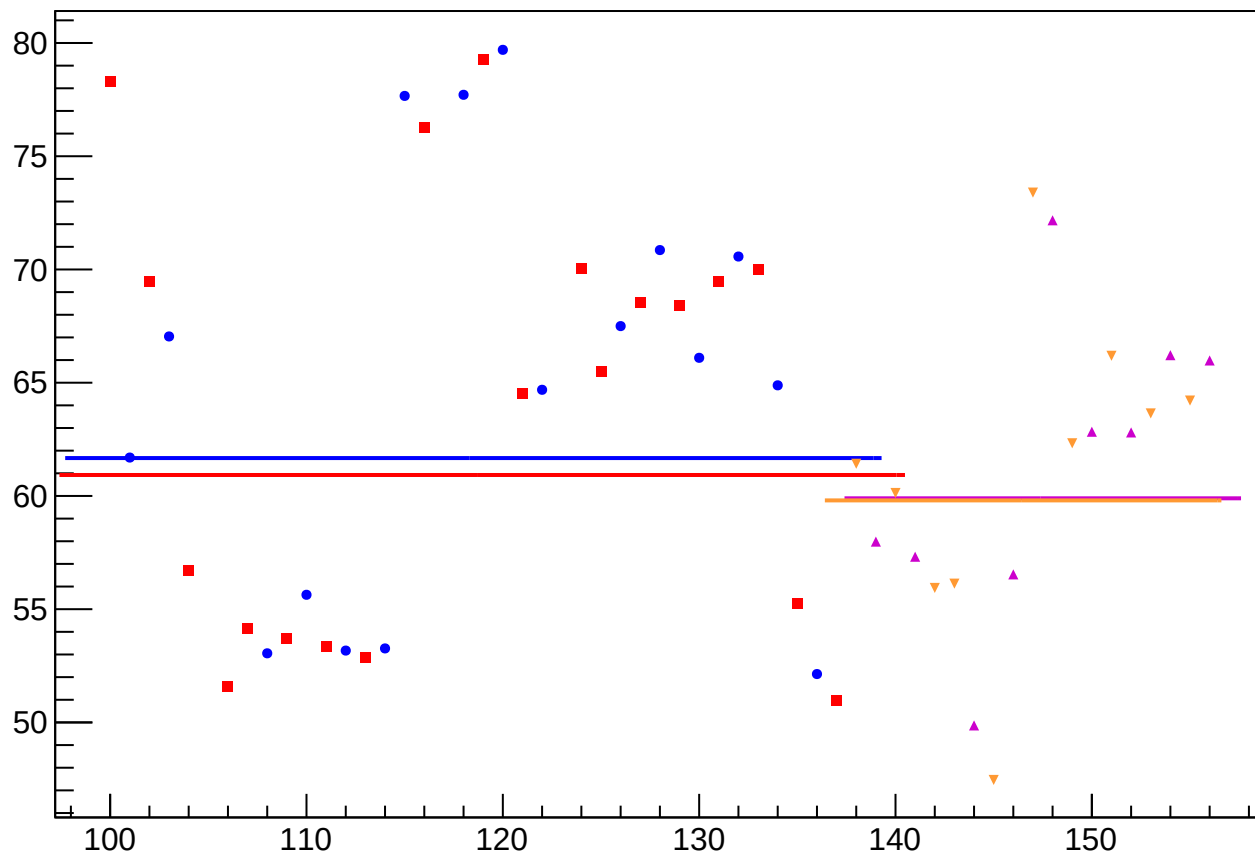
Right: 16.804 $\pm$ 16.177 χ^2 /NDF: 25.4/34

In: 36.632 $\pm$ 15.783 χ^2 /NDF:15.1/24

Out: 4.005 $\pm$ 15.578 χ^2 /NDF:31.1/28

All: 20.105 $\pm$ 11.087 χ^2 /NDF: 48.3/53

eigen_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: 59.804 $\pm$ 0.015 χ^2/NDF : 210559.8/9

Right Out: 60.926 $\pm$ 0.016 χ^2/NDF : 287579.6/18

Left In: 59.896 $\pm$ 0.015 χ^2/NDF : 169840.8/8

Left: 59.850 $\pm$ 0.011 χ^2/NDF : 380418.8/18

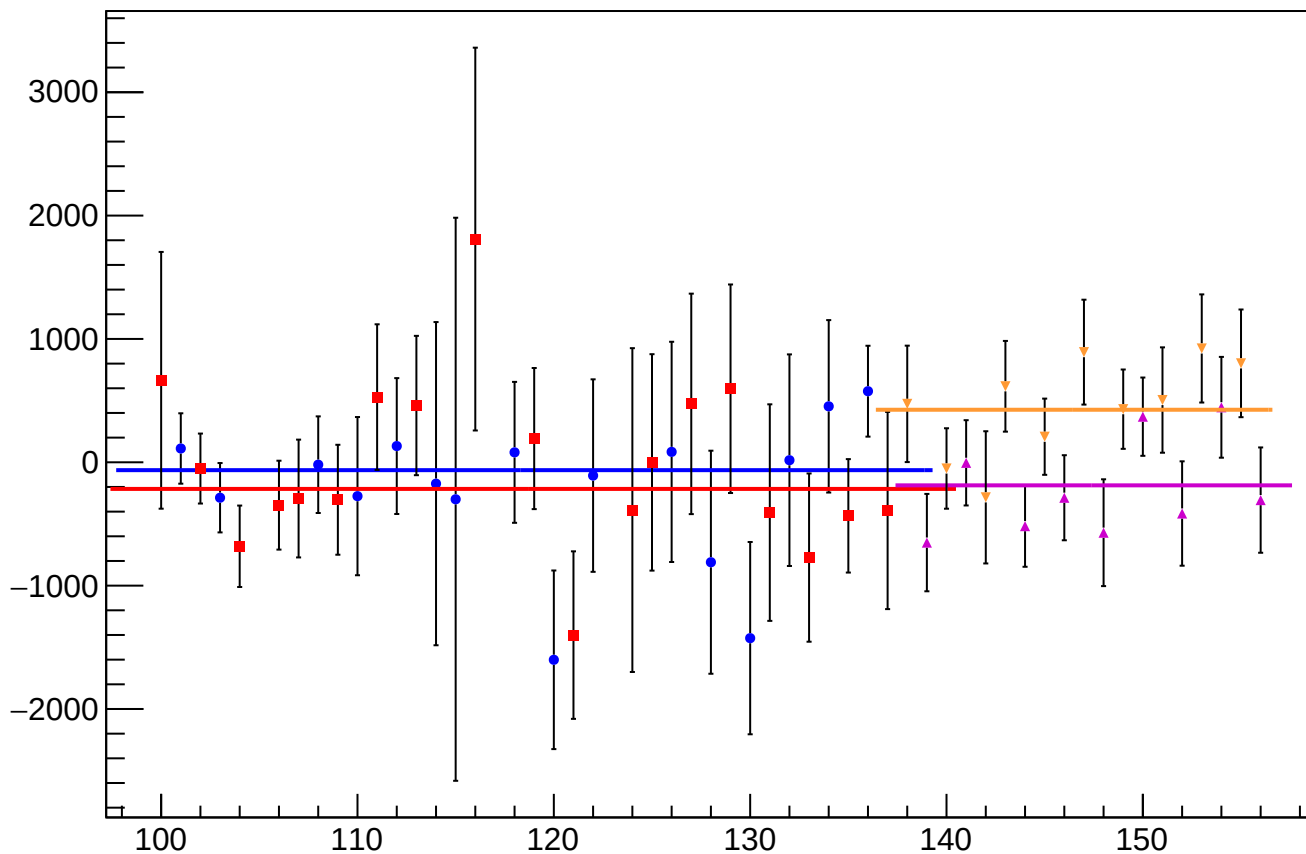
Right: 61.290 $\pm$ 0.011 χ^2/NDF : 555754.0/34

In: 60.720 $\pm$ 0.011 χ^2/NDF : 443255.3/24

Out: 60.337 $\pm$ 0.011 χ^2/NDF : 500726.8/28

All: 60.526 $\pm$ 0.008 χ^2/NDF : 944576.6/53

asym_sam_37_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 425.932 ± 122.736 $\chi^2/\text{NDF}: 7.9/9$

Right Out: -215.911 ± 123.491 $\chi^2/\text{NDF}: 14.1/18$

Left In: -186.963 ± 124.286 $\chi^2/\text{NDF}: 9.4/8$

Left: 123.329 ± 87.330 $\chi^2/\text{NDF}: 29.6/18$

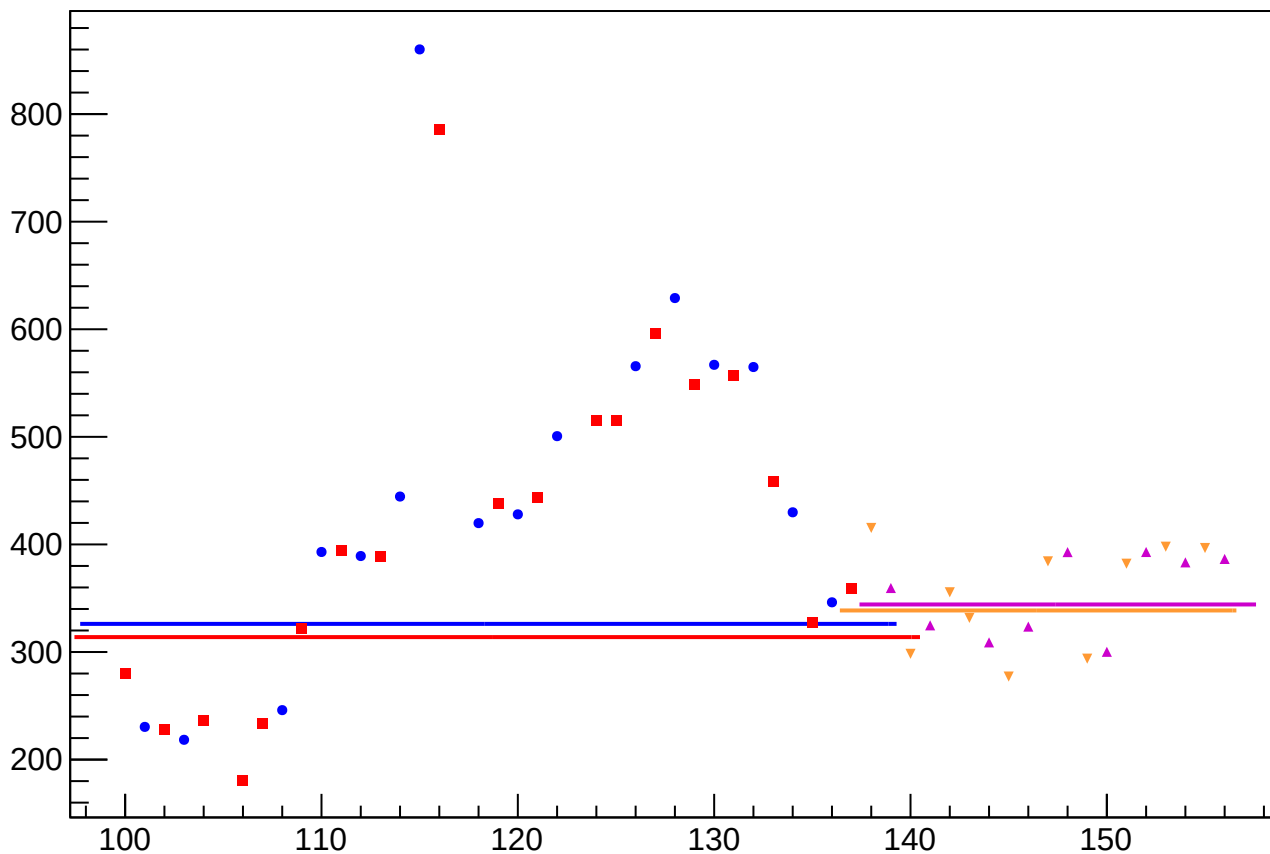
Right: -143.578 ± 89.428 $\chi^2/\text{NDF}: 28.0/34$

In: -128.004 ± 89.728 $\chi^2/\text{NDF}: 23.0/24$

Out: 106.978 ± 87.053 $\chi^2/\text{NDF}: 35.6/28$

All: -6.958 ± 62.480 $\chi^2/\text{NDF}: 62.2/53$

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: 338.624+/-0.087 χ^2/NDF : 319693.4/9

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 344.198+/-0.088 χ^2/NDF : 167620.6/8

Left: 341.376+/-0.062 χ^2/NDF : 489351.2/18

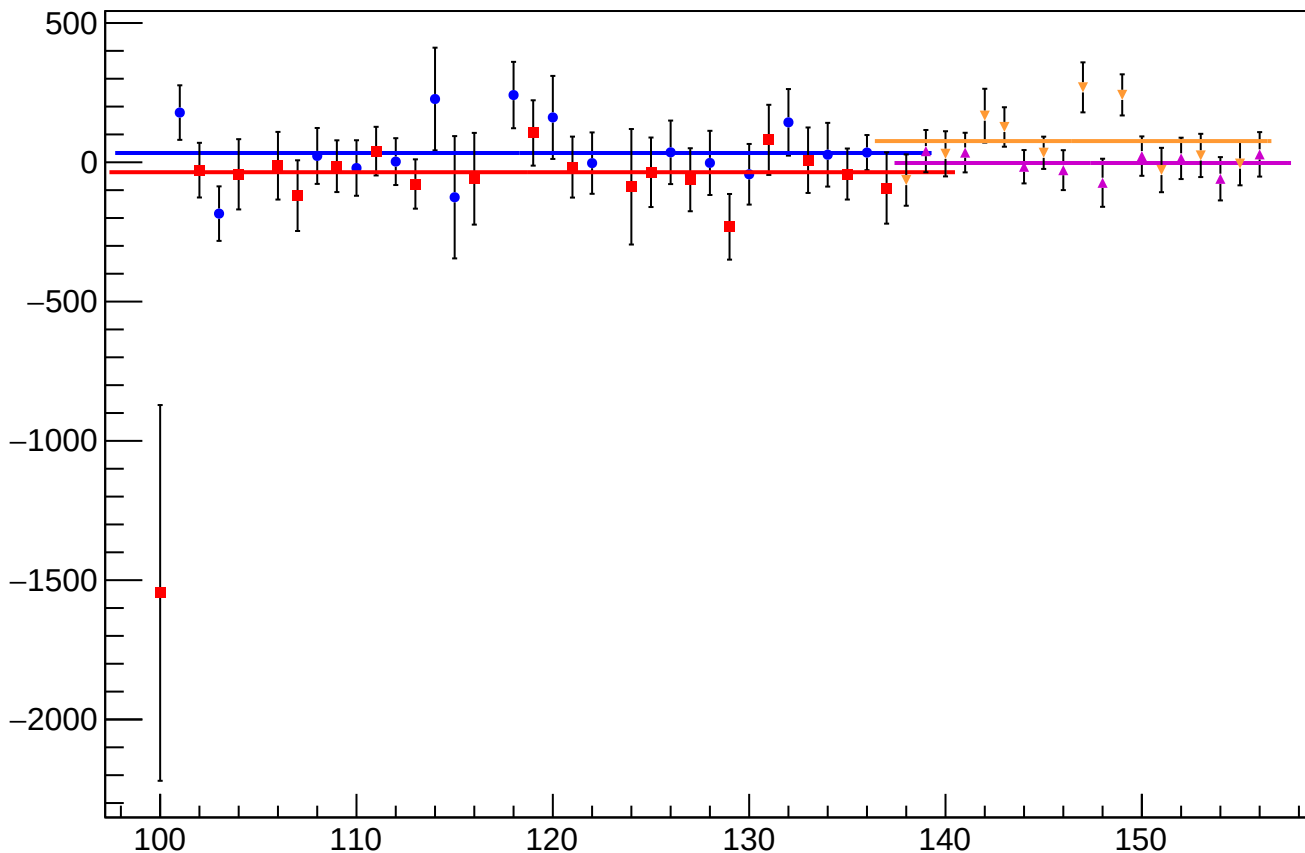
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 335.557+/-0.063 χ^2/NDF : 1921747.9/24

Out: 326.318+/-0.062 χ^2/NDF : 2165928.4/28

All: 330.798+/-0.044 χ^2/NDF : 4098599.2/53

dit_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 33.399 ± 26.415 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 76.132 ± 24.467 $\chi^2/\text{NDF}: 17.4/9$

Right Out: -35.576 ± 26.536 $\chi^2/\text{NDF}: 12.1/18$

Left In: -2.519 ± 24.374 $\chi^2/\text{NDF}: 2.3/8$

Left: 36.656 ± 17.268 $\chi^2/\text{NDF}: 24.9/18$

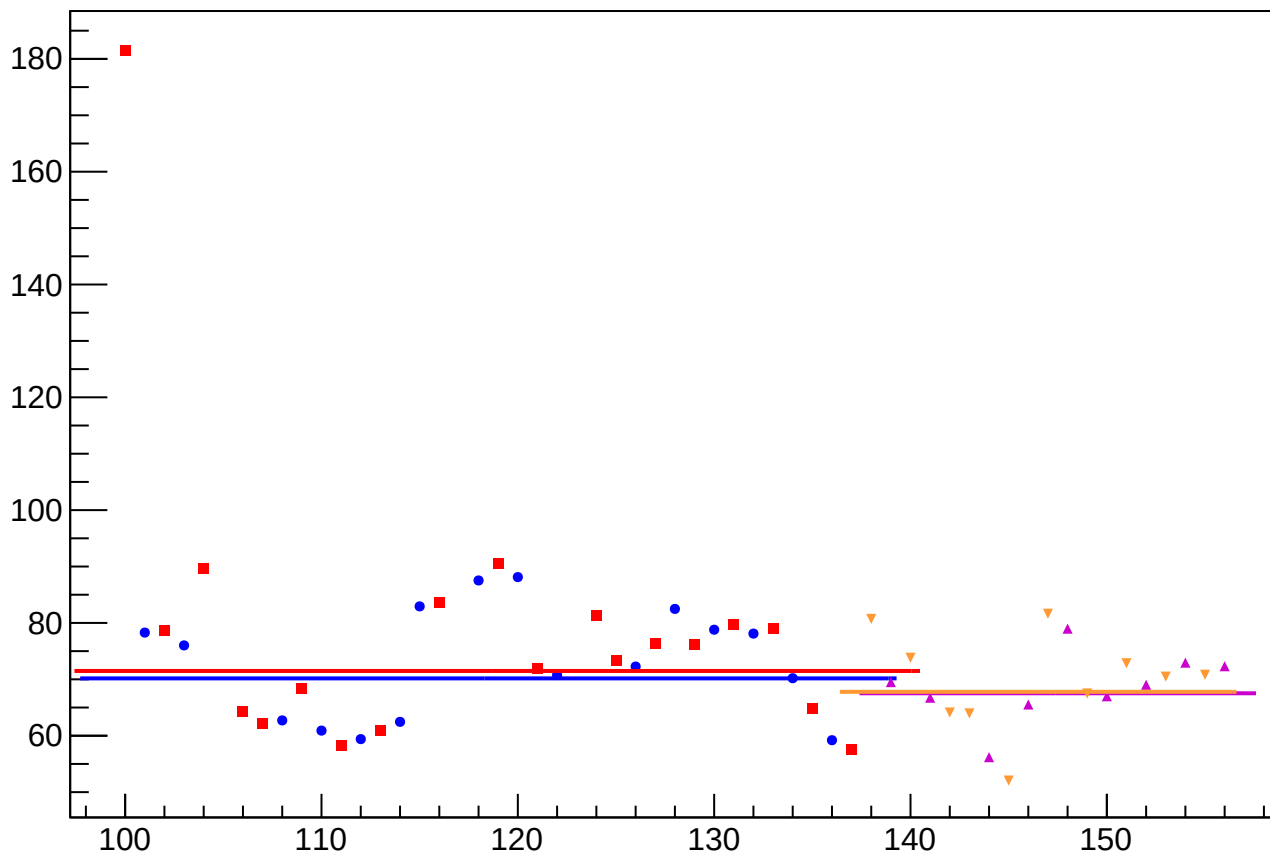
Right: -0.931 ± 18.721 $\chi^2/\text{NDF}: 30.0/34$

In: 13.999 ± 17.913 $\chi^2/\text{NDF}: 17.8/24$

Out: 24.802 ± 17.988 $\chi^2/\text{NDF}: 39.1/28$

All: 19.378 ± 12.693 $\chi^2/\text{NDF}: 57.1/53$

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: 67.787 $\pm$ 0.017 χ^2 /NDF: 267908.5/9

Right Out: 71.483 $\pm$ 0.019 χ^2 /NDF: 325715.0/18

Left In: 67.528 $\pm$ 0.017 χ^2 /NDF: 127889.6/8

Left: 67.657 $\pm$ 0.012 χ^2 /NDF: 395910.9/18

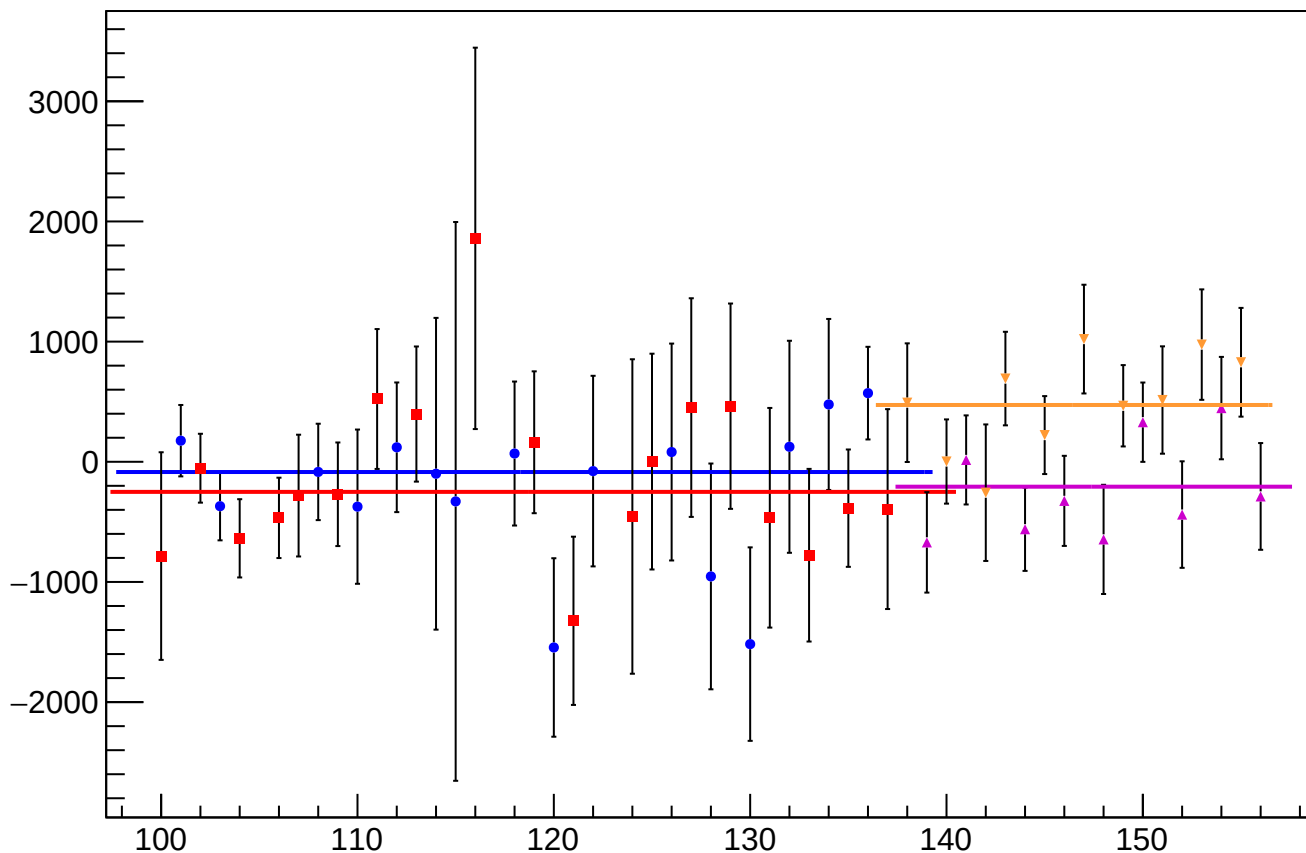
Right: 70.822 $\pm$ 0.013 χ^2 /NDF: 597434.8/34

In: 68.742 $\pm$ 0.013 χ^2 /NDF: 407925.1/24

Out: 69.486 $\pm$ 0.013 χ^2 /NDF: 614591.9/28

All: 69.112 $\pm$ 0.009 χ^2 /NDF: 1024234.0/53

asym_sam_37_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.184 ± 132.877 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 472.666 ± 129.432 $\chi^2/\text{NDF}: 7.7/9$

Right Out: -250.440 ± 123.302 $\chi^2/\text{NDF}: 12.5/18$

Left In: -207.242 ± 131.165 $\chi^2/\text{NDF}: 9.0/8$

Left: 137.232 ± 92.129 $\chi^2/\text{NDF}: 30.2/18$

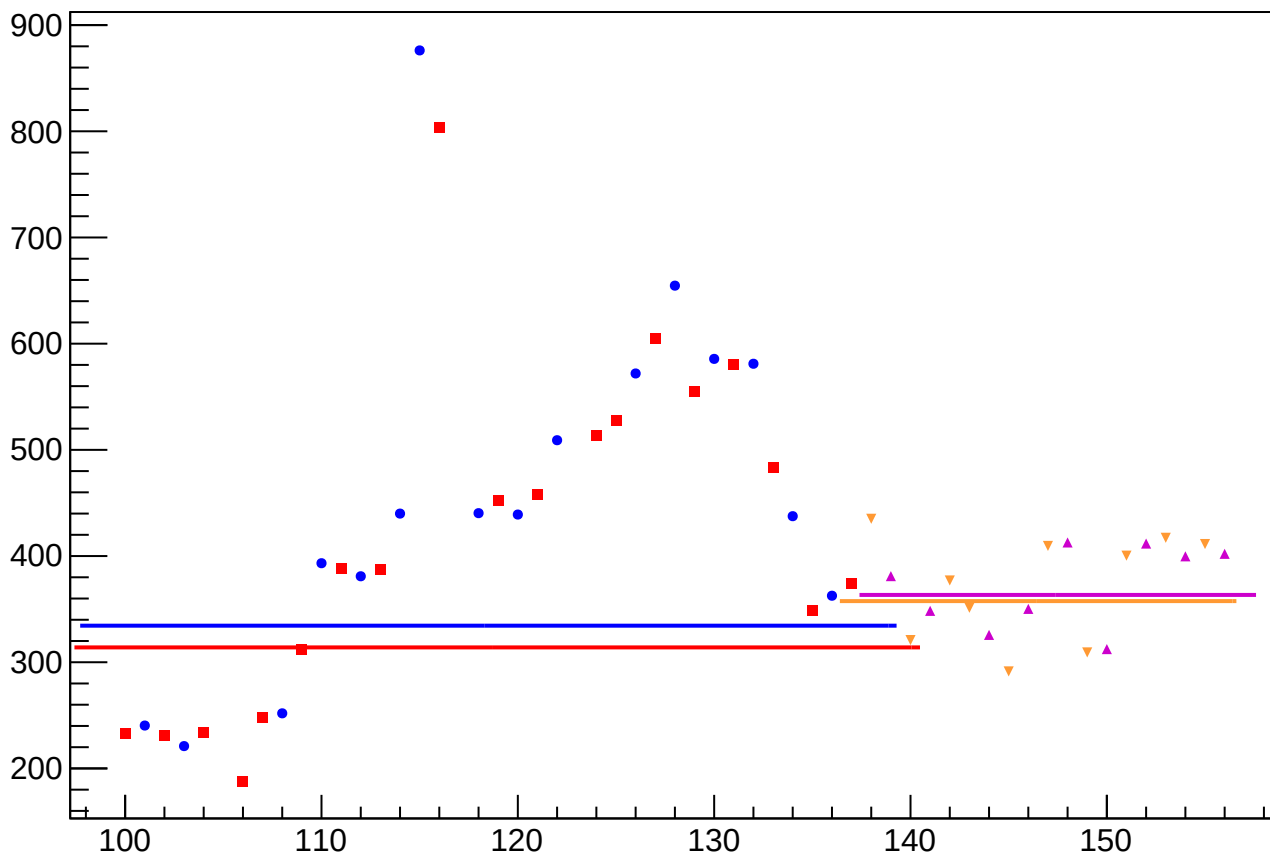
Right: -173.980 ± 90.383 $\chi^2/\text{NDF}: 27.0/34$

In: -147.004 ± 93.347 $\chi^2/\text{NDF}: 23.1/24$

Out: 93.583 ± 89.276 $\chi^2/\text{NDF}: 36.5/28$

All: -21.351 ± 64.519 $\chi^2/\text{NDF}: 63.1/53$

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: 357.572+/-0.092 χ^2/NDF :304802.1/9

Right Out: 313.971+/-0.087 χ^2/NDF : 1904605.9/18

Left In: 363.390+/-0.093 χ^2/NDF :157849.9/8

Left: 360.442+/-0.065 χ^2/NDF : 464645.2/18

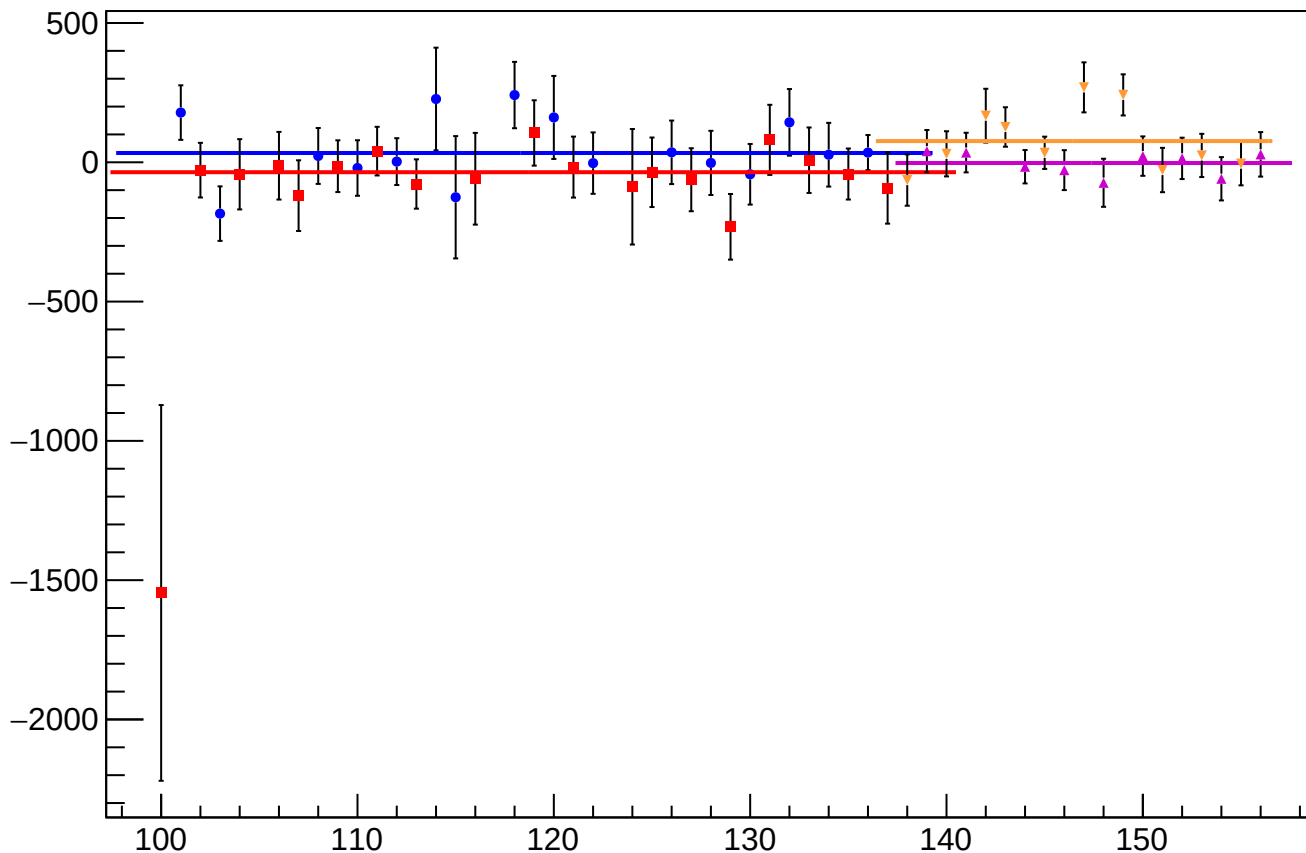
Right: 323.437+/-0.064 χ^2/NDF : 3660694.2/34

In: 349.098+/-0.066 χ^2/NDF :1936572.6/24

Out: 334.715+/-0.063 χ^2/NDF :2328387.5/28

All: 341.586+/-0.046 χ^2/NDF : 4289760.4/53

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: 76.131 $\pm$ 24.467 χ^2 /NDF:17.4/9

Right Out: -35.577 $\pm$ 26.536 χ^2 /NDF: 12.1/18

Left In: -2.519 $\pm$ 24.374 χ^2 /NDF:2.3/8

Left: 36.656 $\pm$ 17.268 χ^2 /NDF: 24.9/18

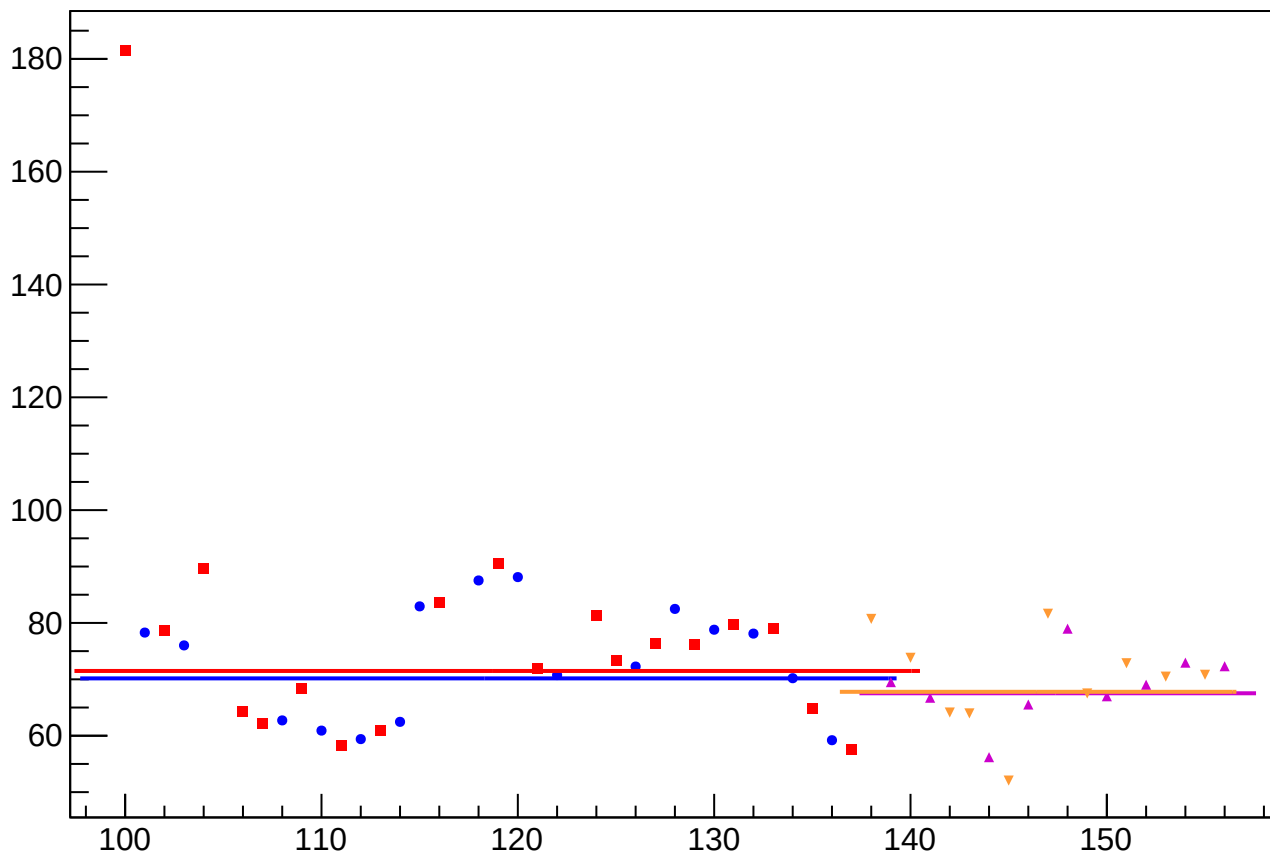
Right: -0.932 $\pm$ 18.721 χ^2 /NDF: 30.0/34

In: 13.998 $\pm$ 17.913 χ^2 /NDF:17.8/24

Out: 24.801 $\pm$ 17.988 χ^2 /NDF:39.1/28

All: 19.377 $\pm$ 12.693 χ^2 /NDF: 57.1/53

eigen_dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 70.167 $\pm$ 0.019 χ^2 /NDF: 269253.0/15

Left Out: 67.787 $\pm$ 0.017 χ^2 /NDF: 267912.6/9

Right Out: 71.483 $\pm$ 0.019 χ^2 /NDF: 325721.5/18

Left In: 67.528 $\pm$ 0.017 χ^2 /NDF: 127890.3/8

Left: 67.657 $\pm$ 0.012 χ^2 /NDF: 395915.8/18

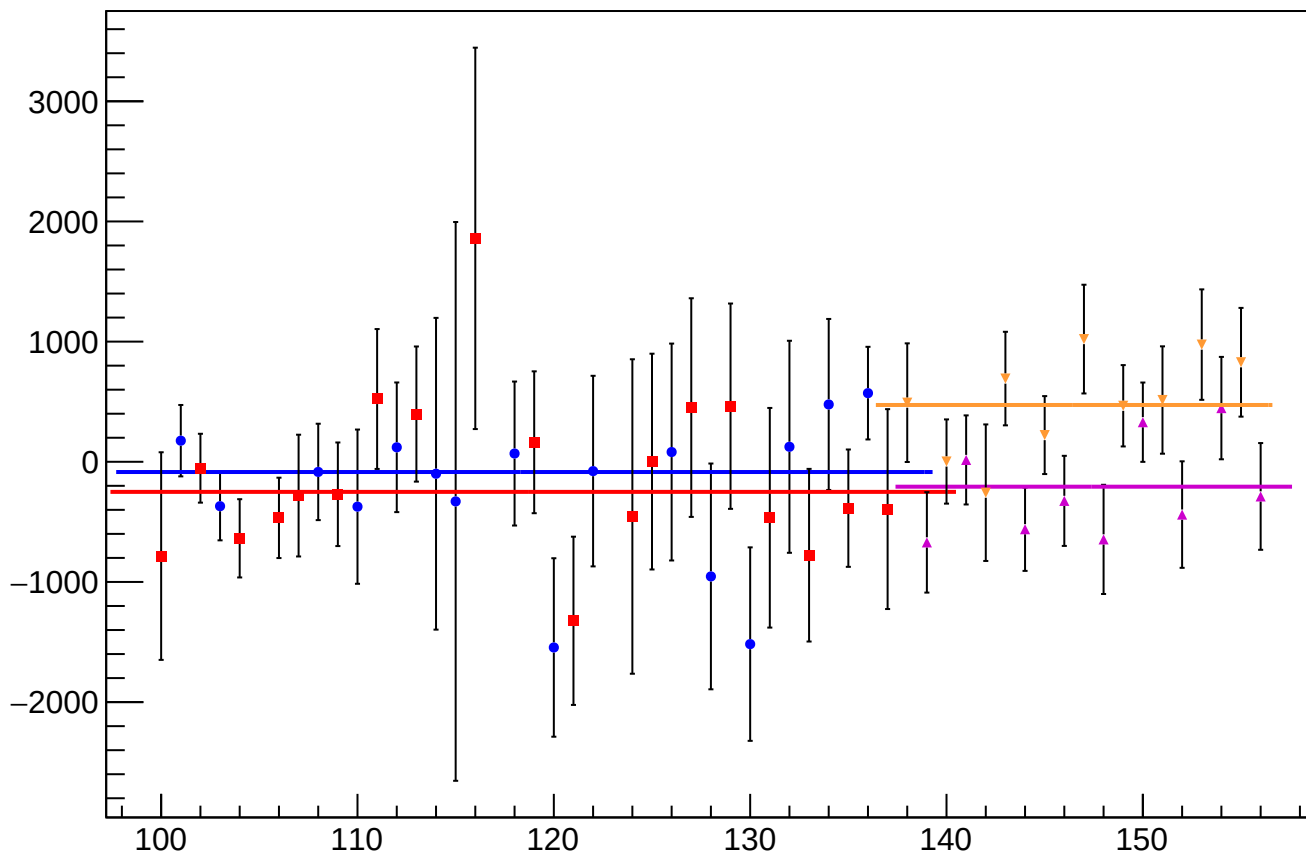
Right: 70.822 $\pm$ 0.013 χ^2 /NDF: 597444.3/34

In: 68.742 $\pm$ 0.013 χ^2 /NDF: 407930.0/24

Out: 69.486 $\pm$ 0.013 χ^2 /NDF: 614604.1/28

All: 69.112 $\pm$ 0.009 χ^2 /NDF: 1024250.9/53

asym_sam_37_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.185 ± 132.877 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 472.666 ± 129.432 $\chi^2/\text{NDF}: 7.7/9$

Right Out: -250.440 ± 123.302 $\chi^2/\text{NDF}: 12.5/18$

Left In: -207.242 ± 131.165 $\chi^2/\text{NDF}: 9.0/8$

Left: 137.232 ± 92.129 $\chi^2/\text{NDF}: 30.2/18$

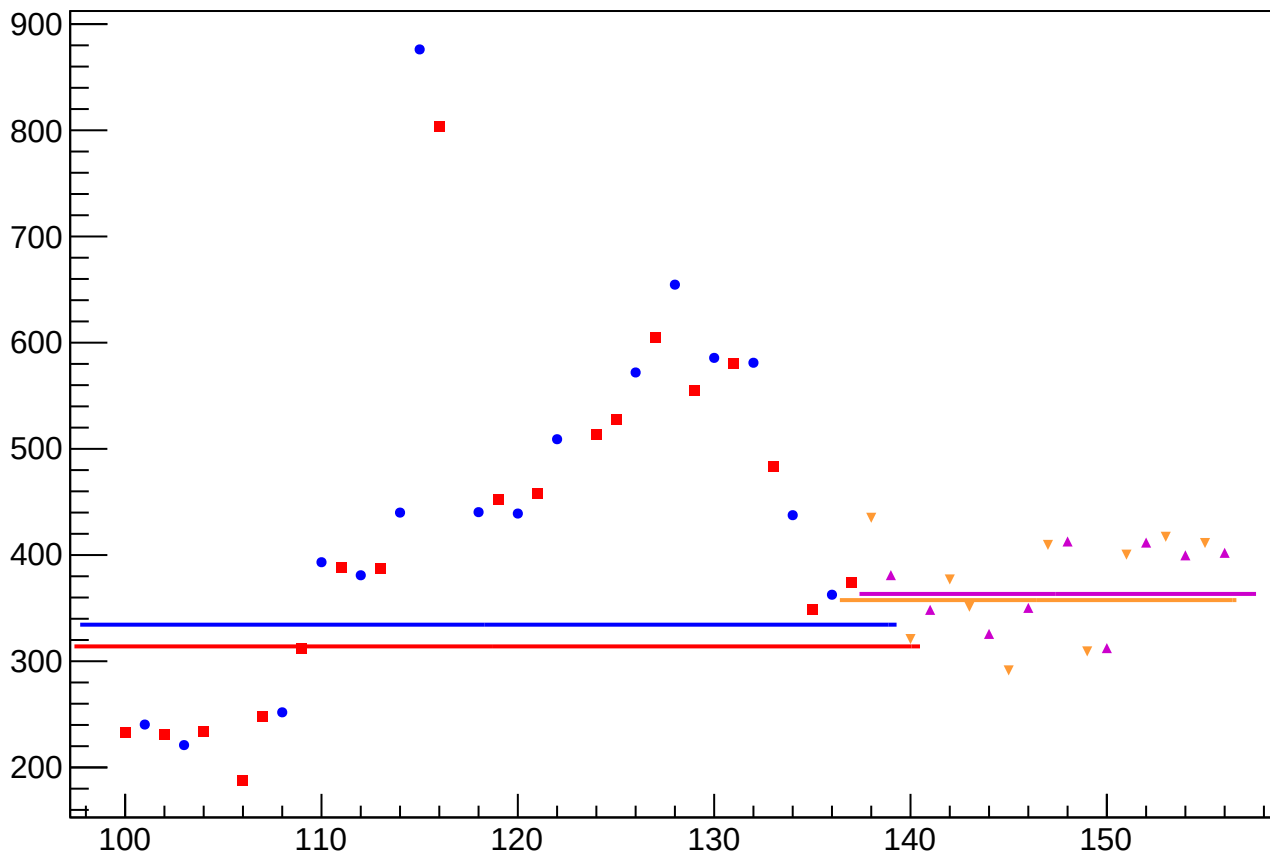
Right: -173.981 ± 90.383 $\chi^2/\text{NDF}: 27.0/34$

In: -147.005 ± 93.347 $\chi^2/\text{NDF}: 23.1/24$

Out: 93.583 ± 89.276 $\chi^2/\text{NDF}: 36.5/28$

All: -21.351 ± 64.519 $\chi^2/\text{NDF}: 63.1/53$

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: 357.572+/-0.092 χ^2/NDF : 304805.0/9

Right Out: 313.971+/-0.087 χ^2/NDF : 1904604.3/18

Left In: 363.390+/-0.093 χ^2/NDF : 157849.6/8

Left: 360.442+/-0.065 χ^2/NDF : 464648.1/18

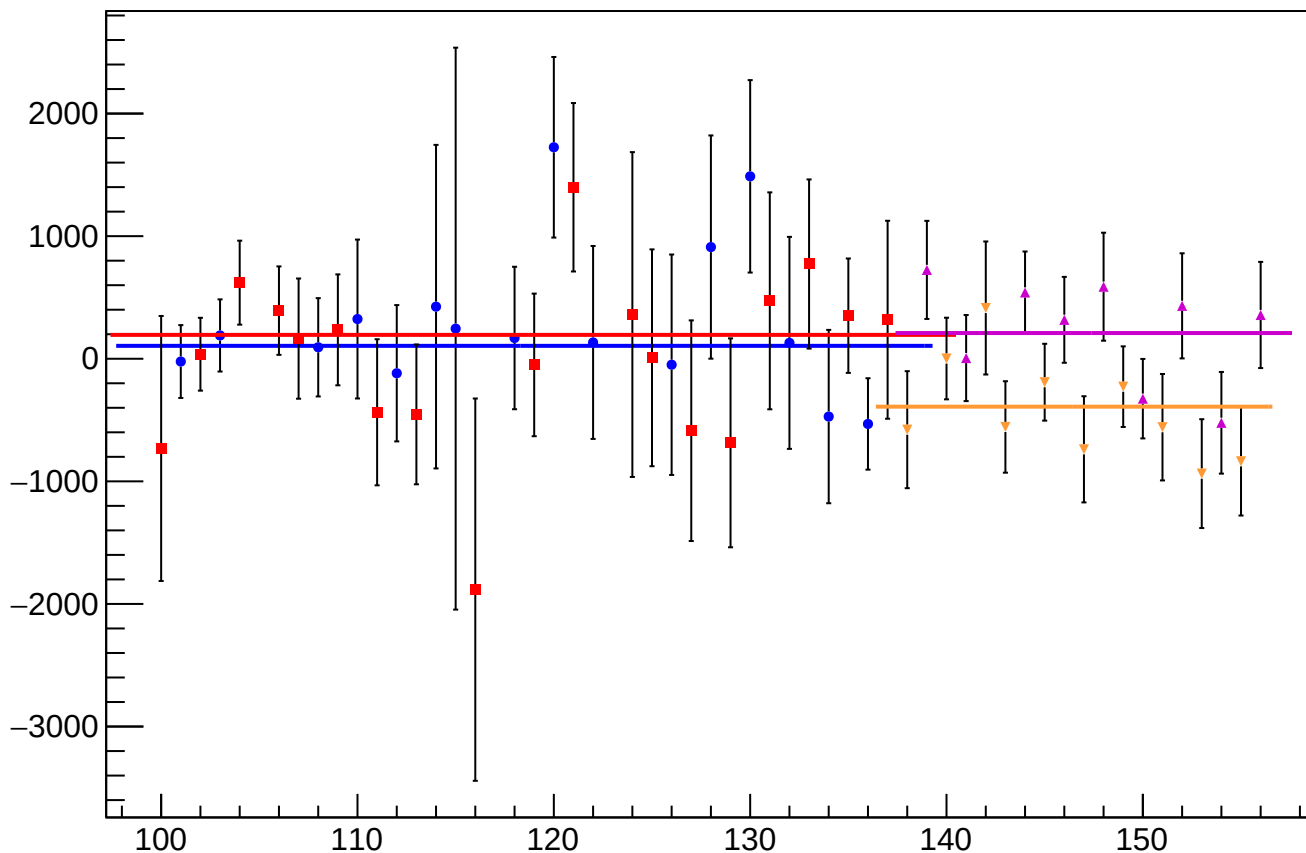
Right: 323.437+/-0.064 χ^2/NDF : 3660692.3/34

In: 349.098+/-0.066 χ^2/NDF : 1936570.8/24

Out: 334.715+/-0.063 χ^2/NDF : 2328387.8/28

All: 341.586+/-0.046 χ^2/NDF : 4289759.7/53

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: -390.690 $\pm$ 124.753 χ^2 /NDF:7.9/9

Right Out: 194.712 $\pm$ 126.198 χ^2 /NDF: 13.1/18

Left In: 209.776 $\pm$ 126.249 χ^2 /NDF:10.0/8

Left: -94.038 $\pm$ 88.738 χ^2 /NDF: 29.4/18

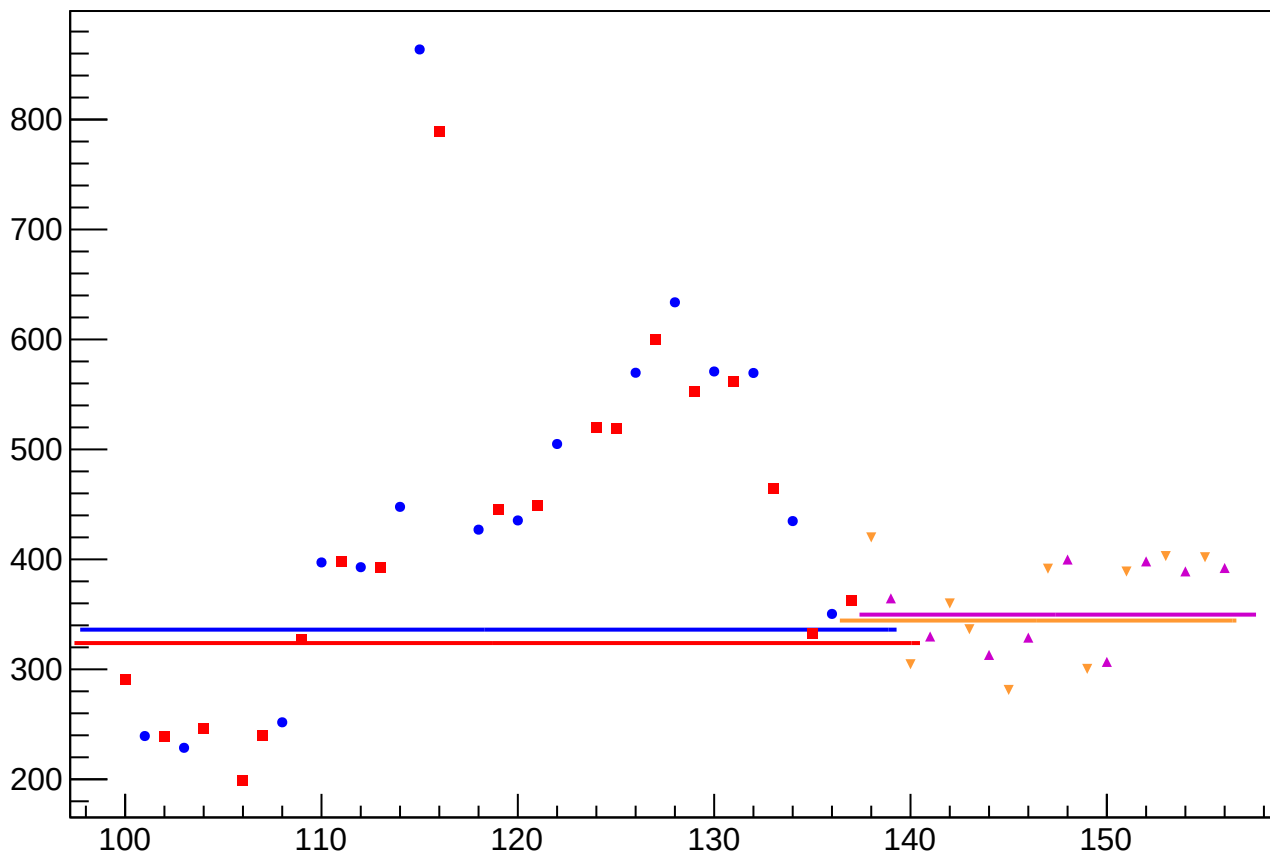
Right: 152.409 $\pm$ 91.561 χ^2 /NDF: 26.3/34

In: 160.317 $\pm$ 91.580 χ^2 /NDF:23.3/24

Out: -101.361 $\pm$ 88.720 χ^2 /NDF:31.9/28

All: 25.328 $\pm$ 63.722 χ^2 /NDF: 59.5/53

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: 344.362 $\pm$ 0.088 χ^2/NDF : 311677.5/9

Right Out: 323.885 $\pm$ 0.089 χ^2/NDF : 1665420.8/18

Left In: 349.748 $\pm$ 0.089 χ^2/NDF : 164100.9/8

Left: 347.023 $\pm$ 0.063 χ^2/NDF : 477620.0/18

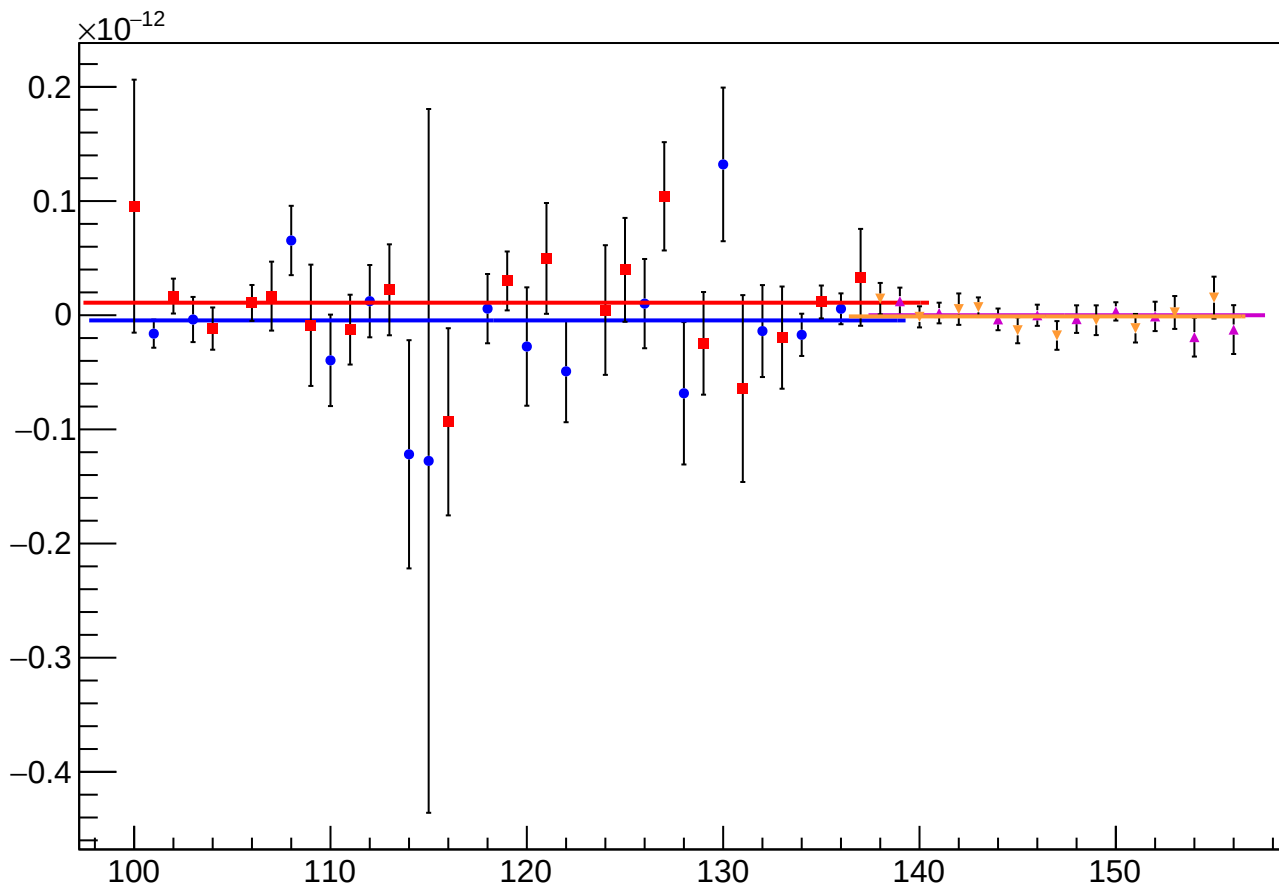
Right: 329.666 $\pm$ 0.065 χ^2/NDF : 3293280.0/34

In: 343.278 $\pm$ 0.065 χ^2/NDF : 1794185.1/24

Out: 334.242 $\pm$ 0.063 χ^2/NDF : 2003729.2/28

All: 338.616 $\pm$ 0.045 χ^2/NDF : 3807958.4/53

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 : 6.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 12.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.1/8

Left: -0.000+/-0.000 χ^2/NDF : 10.0/18

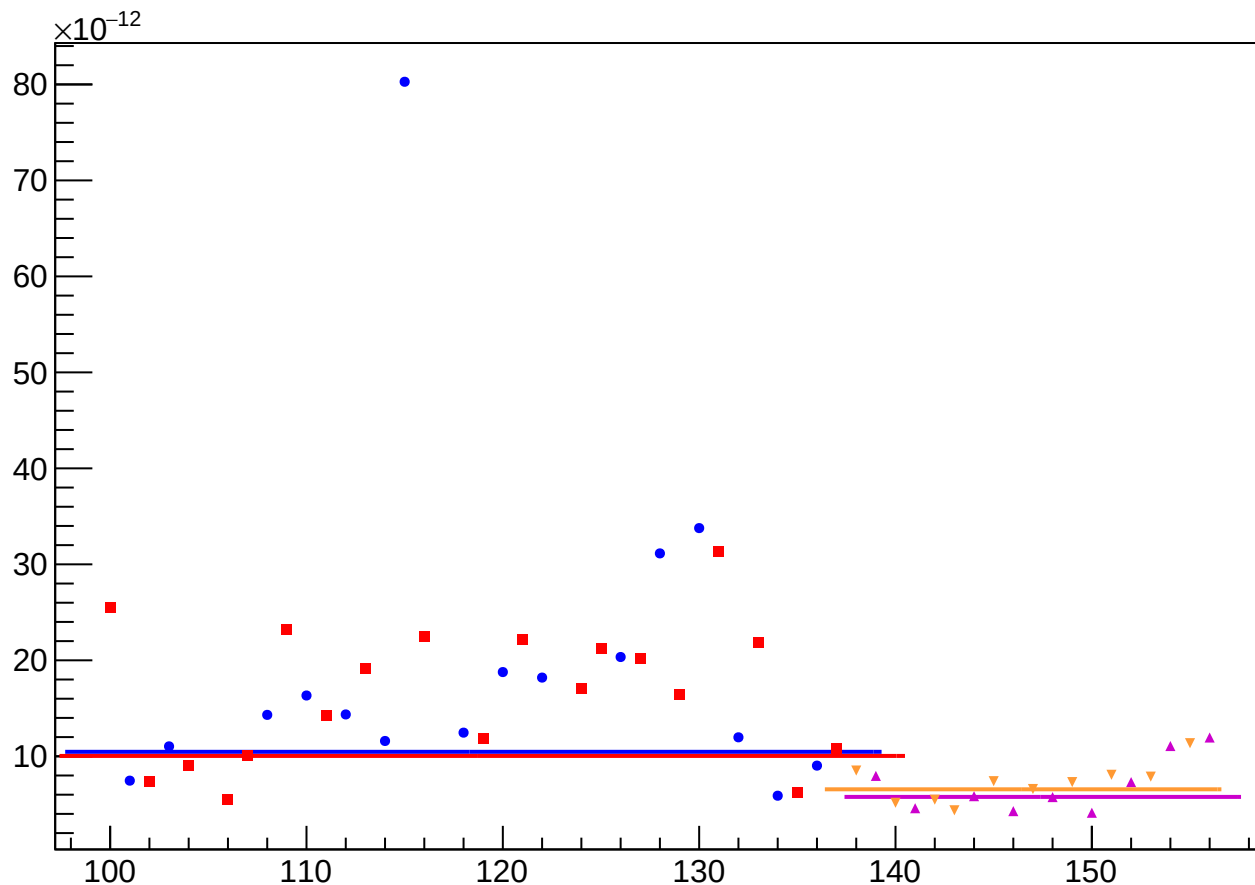
Right: 0.000+/-0.000 χ^2/NDF : 31.8/34

In: -0.000+/-0.000 χ^2/NDF : 20.0/24

Out: 0.000+/-0.000 χ^2/NDF : 21.9/28

All: 0.000+/-0.000 χ^2/NDF : 42.3/53

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 : 428755.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1415778.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 627422.5/8

Left: 0.000+/-0.000 χ^2/NDF : 1101824.0/18

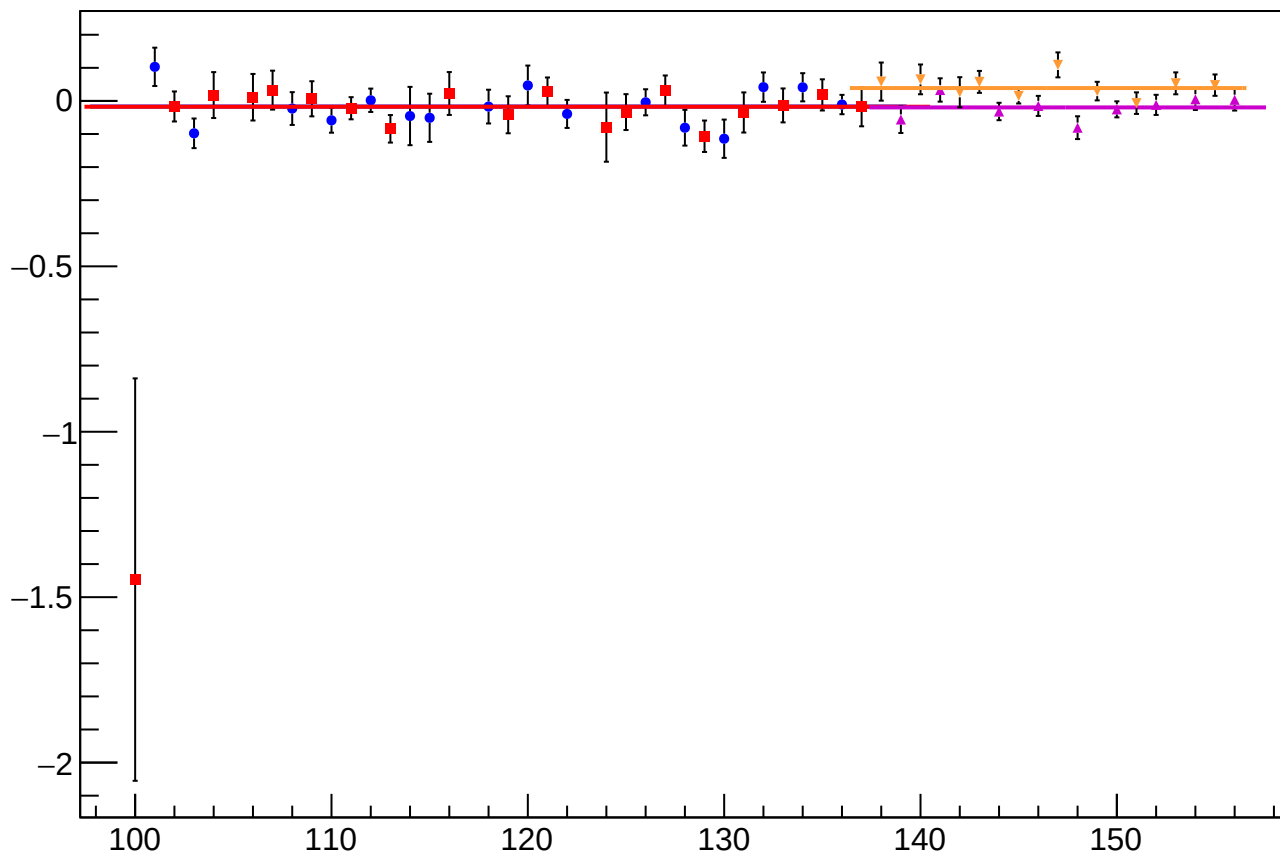
Right: 0.000+/-0.000 χ^2/NDF : 2604050.5/34

In: 0.000+/-0.000 χ^2/NDF : 2618162.2/24

Out: 0.000+/-0.000 χ^2/NDF : 2280862.8/28

All: 0.000+/-0.000 χ^2/NDF : 4929425.6/53

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 0.039 ± 0.011 $\chi^2/\text{NDF}: 7.7/9$

Right Out: -0.018 ± 0.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: -0.020 ± 0.010 $\chi^2/\text{NDF}: 7.6/8$

Left: 0.009 ± 0.007 $\chi^2/\text{NDF}: 31.1/18$

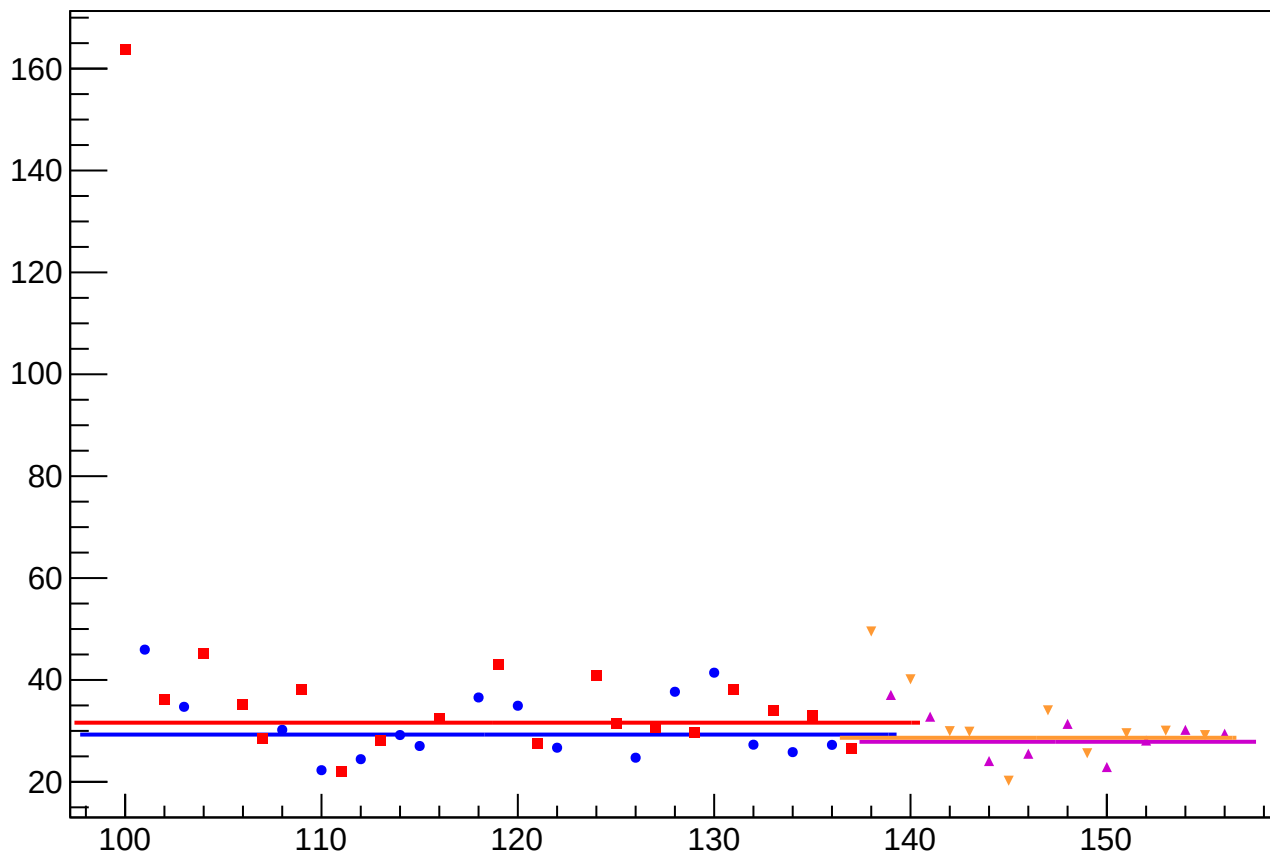
Right: -0.017 ± 0.008 $\chi^2/\text{NDF}: 35.7/34$

In: -0.018 ± 0.008 $\chi^2/\text{NDF}: 26.5/24$

Out: 0.014 ± 0.008 $\chi^2/\text{NDF}: 36.8/28$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 72.2/53$

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: 28.652+/-0.008 χ^2/NDF : 739323.8/9

Right Out: 31.613+/-0.009 χ^2/NDF : 572190.6/18

Left In: 27.866+/-0.007 χ^2/NDF : 313471.7/8

Left: 28.246+/-0.005 χ^2/NDF : 1058463.4/18

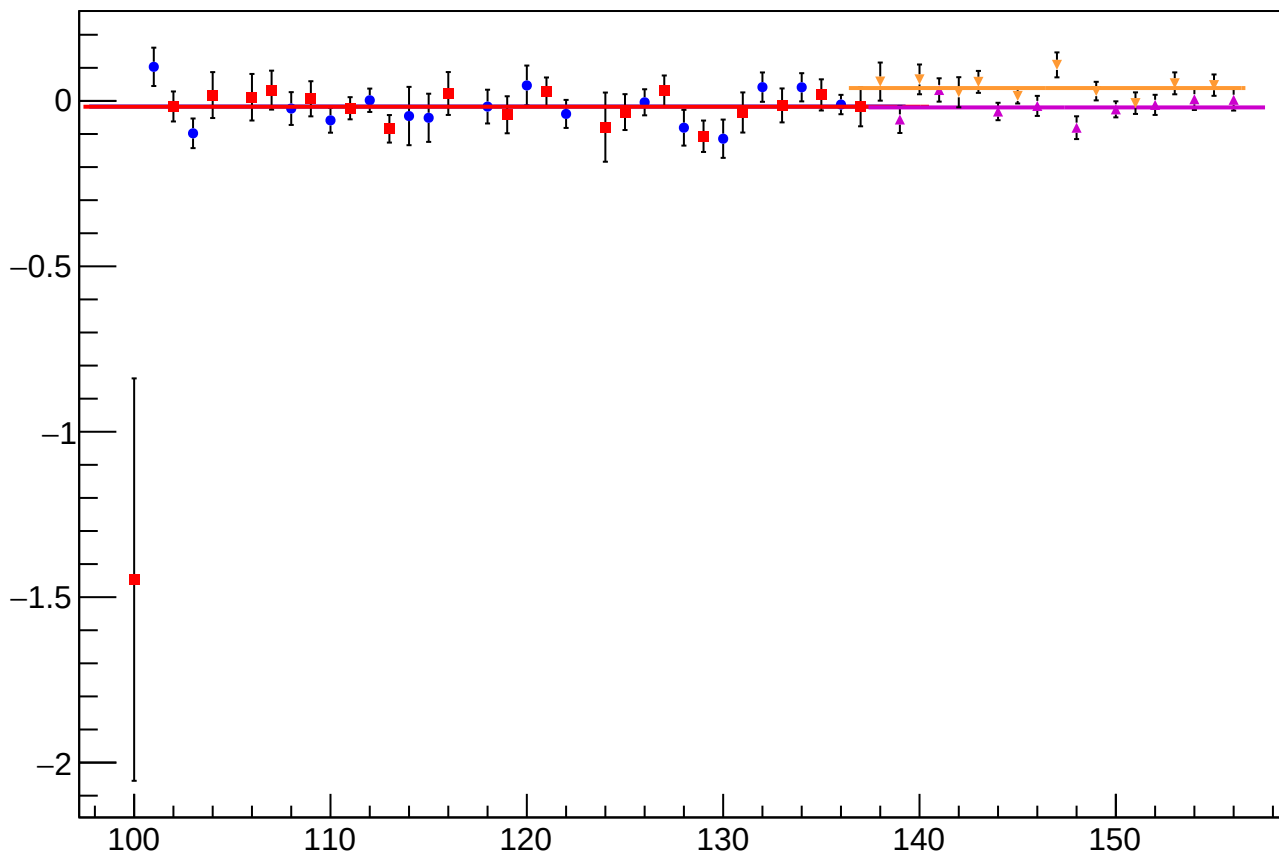
Right: 30.371+/-0.006 χ^2/NDF : 1172478.3/34

In: 28.503+/-0.005 χ^2/NDF : 891158.2/24

Out: 29.939+/-0.006 χ^2/NDF : 1379254.9/28

All: 29.188+/-0.004 χ^2/NDF : 2304329.4/53

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 0.039 ± 0.011 $\chi^2/\text{NDF}: 7.7/9$

Right Out: -0.018 ± 0.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: -0.020 ± 0.010 $\chi^2/\text{NDF}: 7.6/8$

Left: 0.009 ± 0.007 $\chi^2/\text{NDF}: 31.1/18$

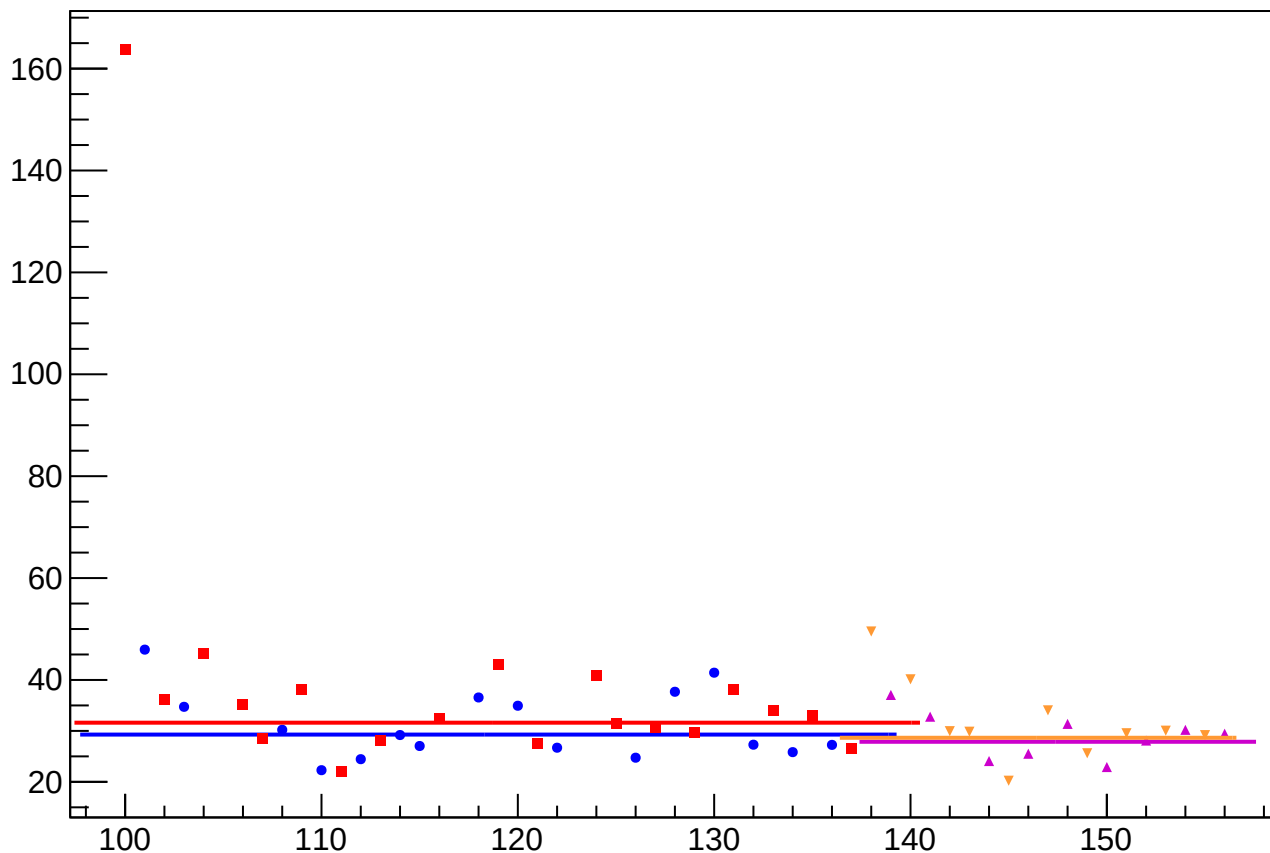
Right: -0.017 ± 0.008 $\chi^2/\text{NDF}: 35.7/34$

In: -0.018 ± 0.008 $\chi^2/\text{NDF}: 26.5/24$

Out: 0.014 ± 0.008 $\chi^2/\text{NDF}: 36.8/28$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 72.2/53$

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: 28.652+/-0.008 χ^2/NDF : 739323.8/9

Right Out: 31.613+/-0.009 χ^2/NDF : 572190.6/18

Left In: 27.866+/-0.007 χ^2/NDF : 313471.7/8

Left: 28.246+/-0.005 χ^2/NDF : 1058463.4/18

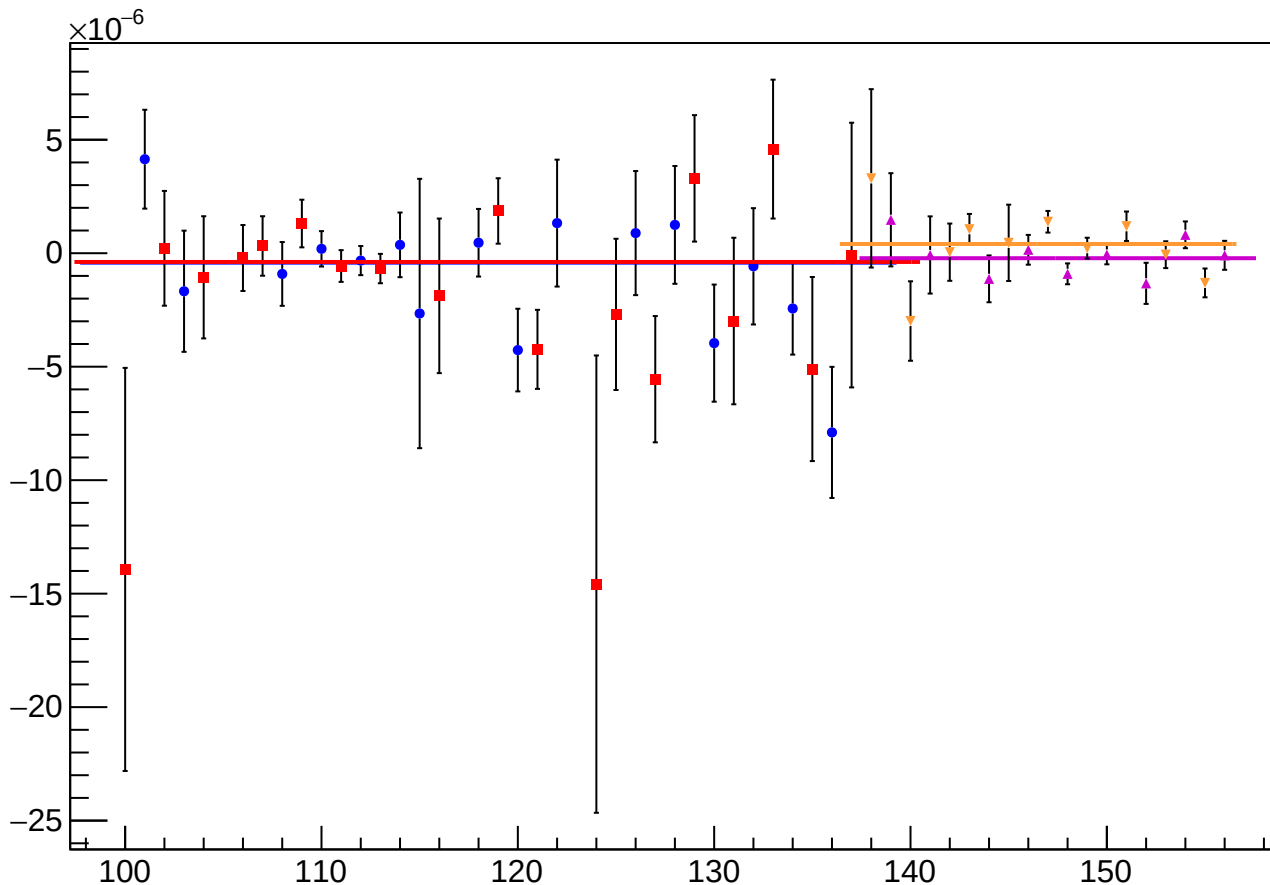
Right: 30.371+/-0.006 χ^2/NDF : 1172478.3/34

In: 28.503+/-0.005 χ^2/NDF : 891158.2/24

Out: 29.939+/-0.006 χ^2/NDF : 1379254.9/28

All: 29.188+/-0.004 χ^2/NDF : 2304329.4/53

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 21.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 19.1/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 25.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 8.8/8

Left: 0.000 ± 0.000 χ^2/NDF : 31.8/18

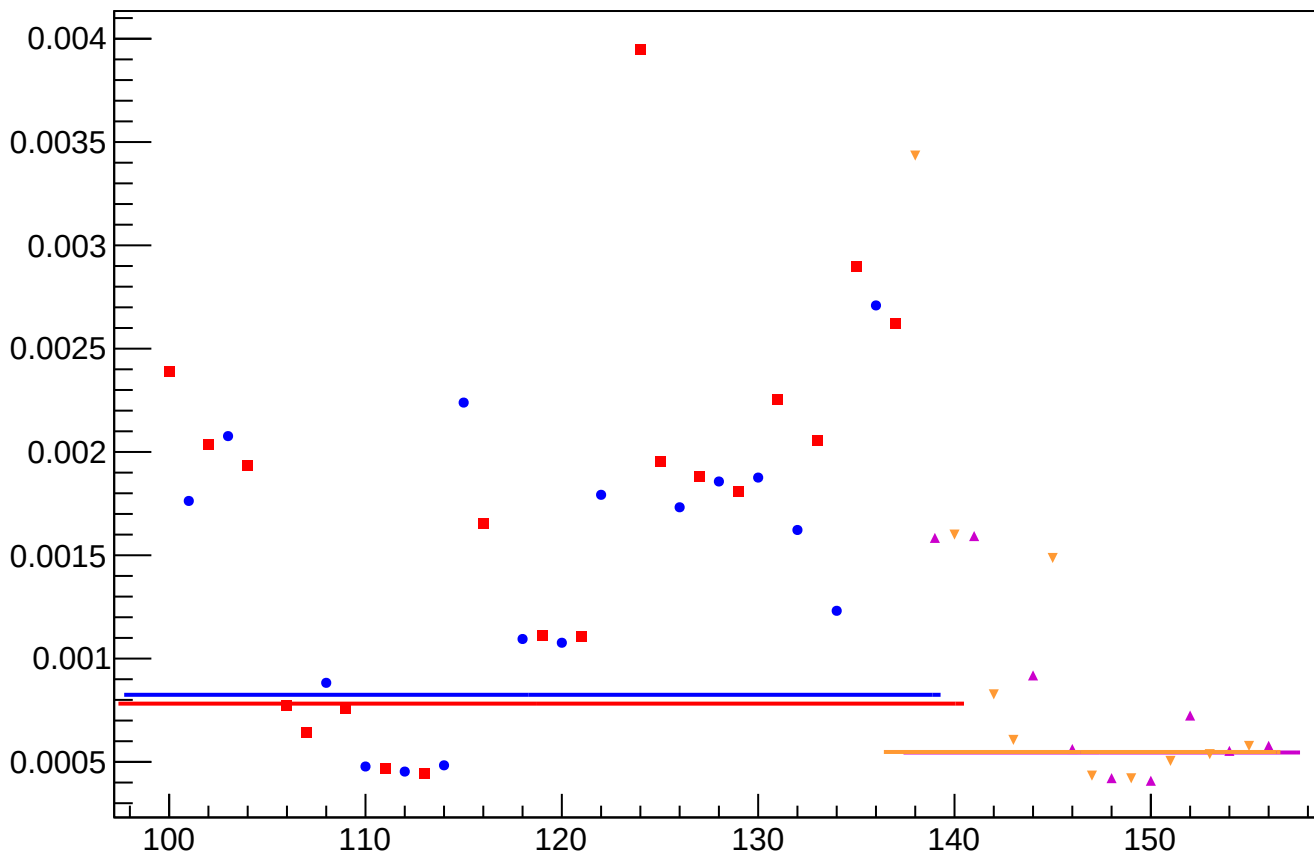
Right: -0.000 ± 0.000 χ^2/NDF : 46.5/34

In: -0.000 ± 0.000 χ^2/NDF : 30.2/24

Out: 0.000 ± 0.000 χ^2/NDF : 48.0/28

All: -0.000 ± 0.000 χ^2/NDF : 81.1/53

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 :2820607.8/9

Right Out: 0.001+/-0.000 χ^2/NDF : 4638419.3/18

Left In: 0.001+/-0.000 χ^2/NDF :1962787.5/8

Left: 0.001+/-0.000 χ^2/NDF : 4783522.7/18

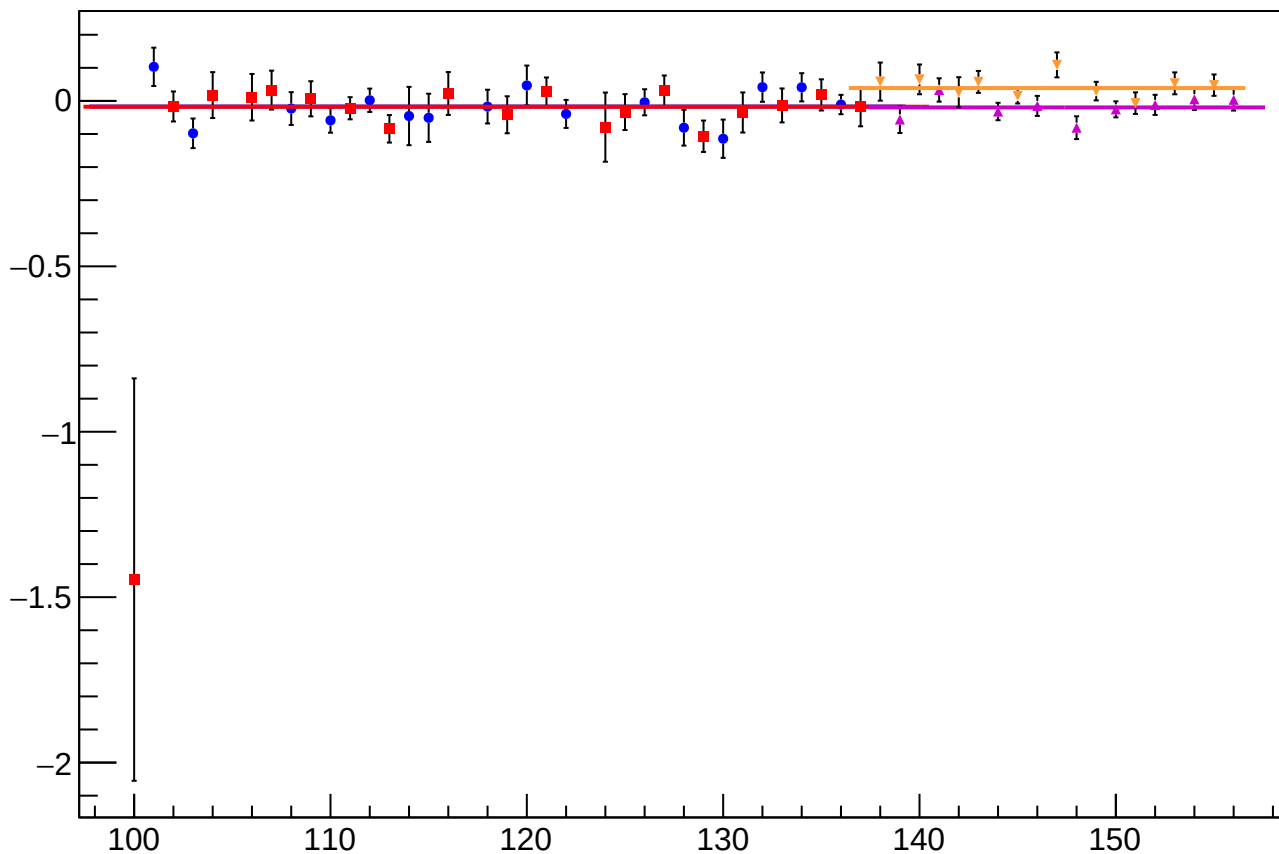
Right: 0.001+/-0.000 χ^2/NDF : 9101271.0/34

In: 0.001+/-0.000 χ^2/NDF :7249290.5/24

Out: 0.001+/-0.000 χ^2/NDF :8101319.1/28

All: 0.001+/-0.000 χ^2/NDF : 15350958.0/53

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: 0.039 ± 0.011 χ^2/NDF : 7.7/9

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.020 ± 0.010 χ^2/NDF : 7.6/8

Left: 0.009 ± 0.007 χ^2/NDF : 31.1/18

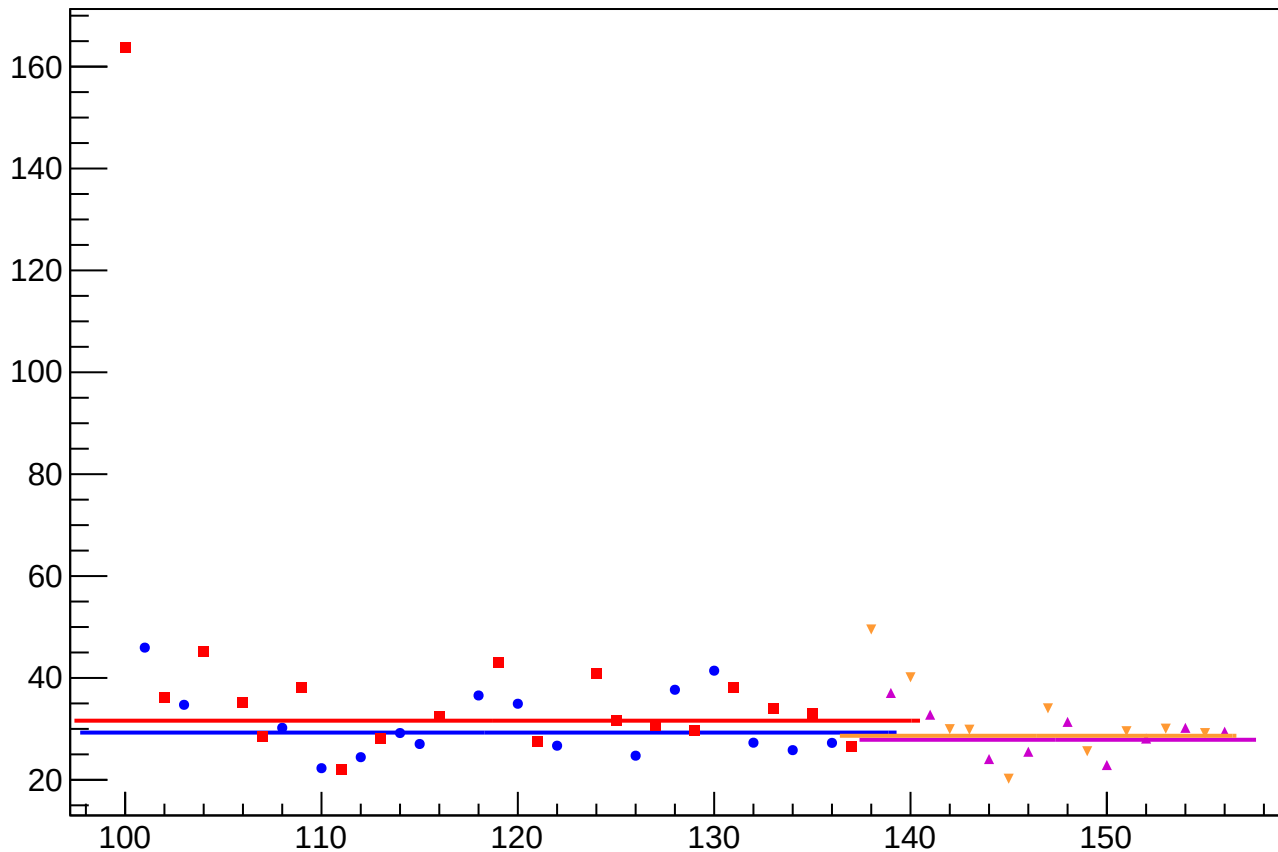
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.018 ± 0.008 χ^2/NDF : 26.5/24

Out: 0.014 ± 0.008 χ^2/NDF : 36.8/28

All: -0.003 ± 0.006 χ^2/NDF : 72.2/53

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: 28.652+/-0.008 χ^2/NDF : 739373.8/9

Right Out: 31.614+/-0.009 χ^2/NDF : 572187.4/18

Left In: 27.866+/-0.007 χ^2/NDF : 313443.5/8

Left: 28.246+/-0.005 χ^2/NDF : 1058482.2/18

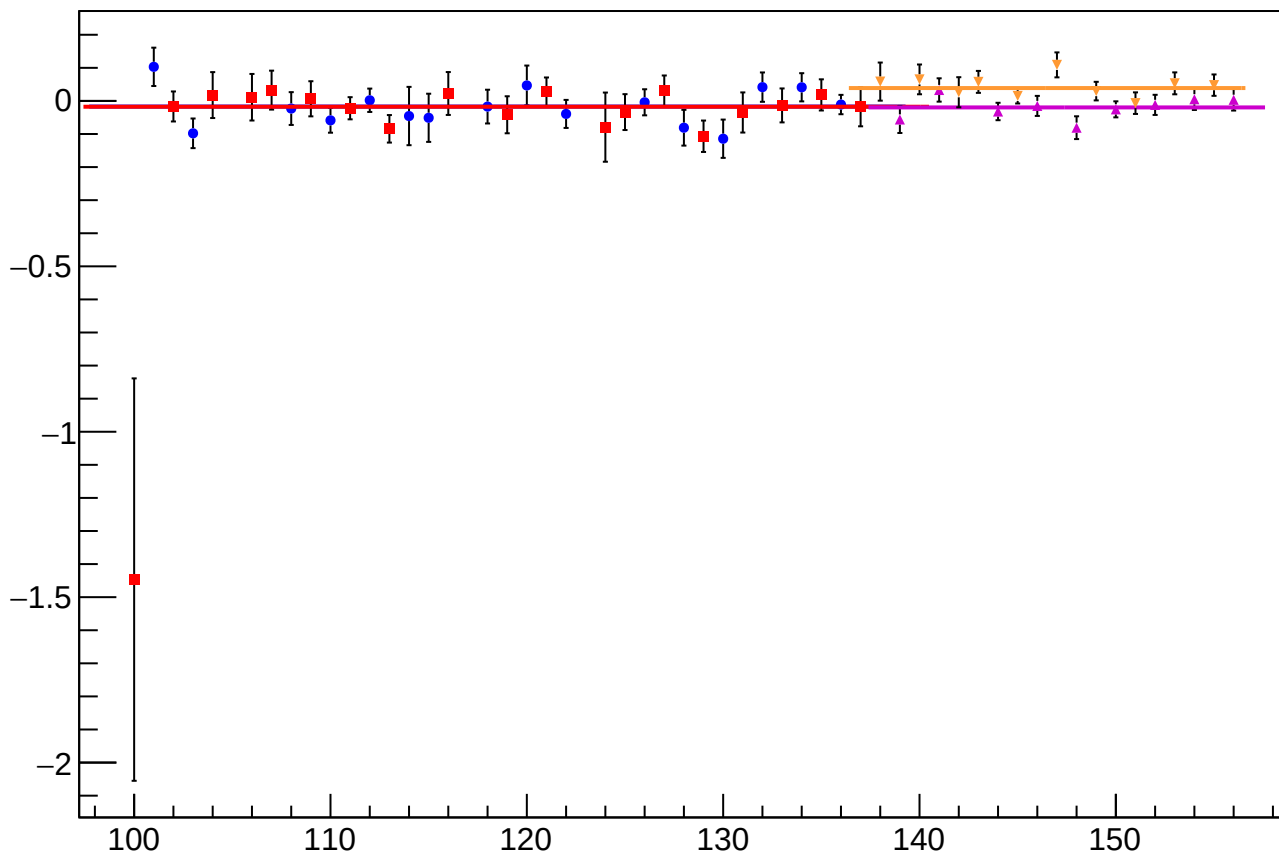
Right: 30.371+/-0.006 χ^2/NDF : 1172478.0/34

In: 28.503+/-0.005 χ^2/NDF : 891133.4/24

Out: 29.939+/-0.006 χ^2/NDF : 1379325.7/28

All: 29.188+/-0.004 χ^2/NDF : 2304371.0/53

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: 0.039 ± 0.011 χ^2/NDF : 7.7/9

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.020 ± 0.010 χ^2/NDF : 7.6/8

Left: 0.009 ± 0.007 χ^2/NDF : 31.1/18

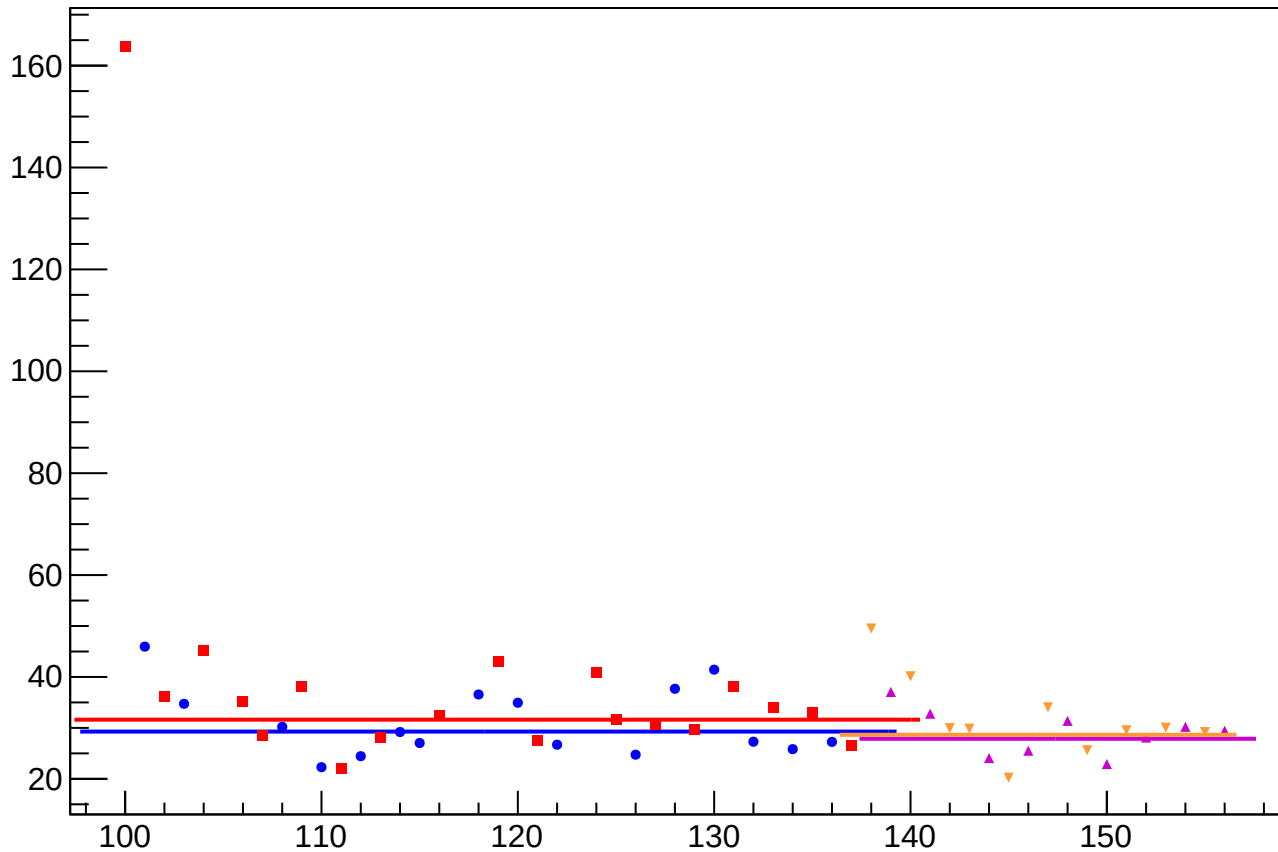
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.018 ± 0.008 χ^2/NDF : 26.5/24

Out: 0.014 ± 0.008 χ^2/NDF : 36.8/28

All: -0.003 ± 0.006 χ^2/NDF : 72.2/53

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: 28.652+/-0.008 χ^2/NDF : 739373.8/9

Right Out: 31.614+/-0.009 χ^2/NDF : 572187.4/18

Left In: 27.866+/-0.007 χ^2/NDF : 313443.5/8

Left: 28.246+/-0.005 χ^2/NDF : 1058482.2/18

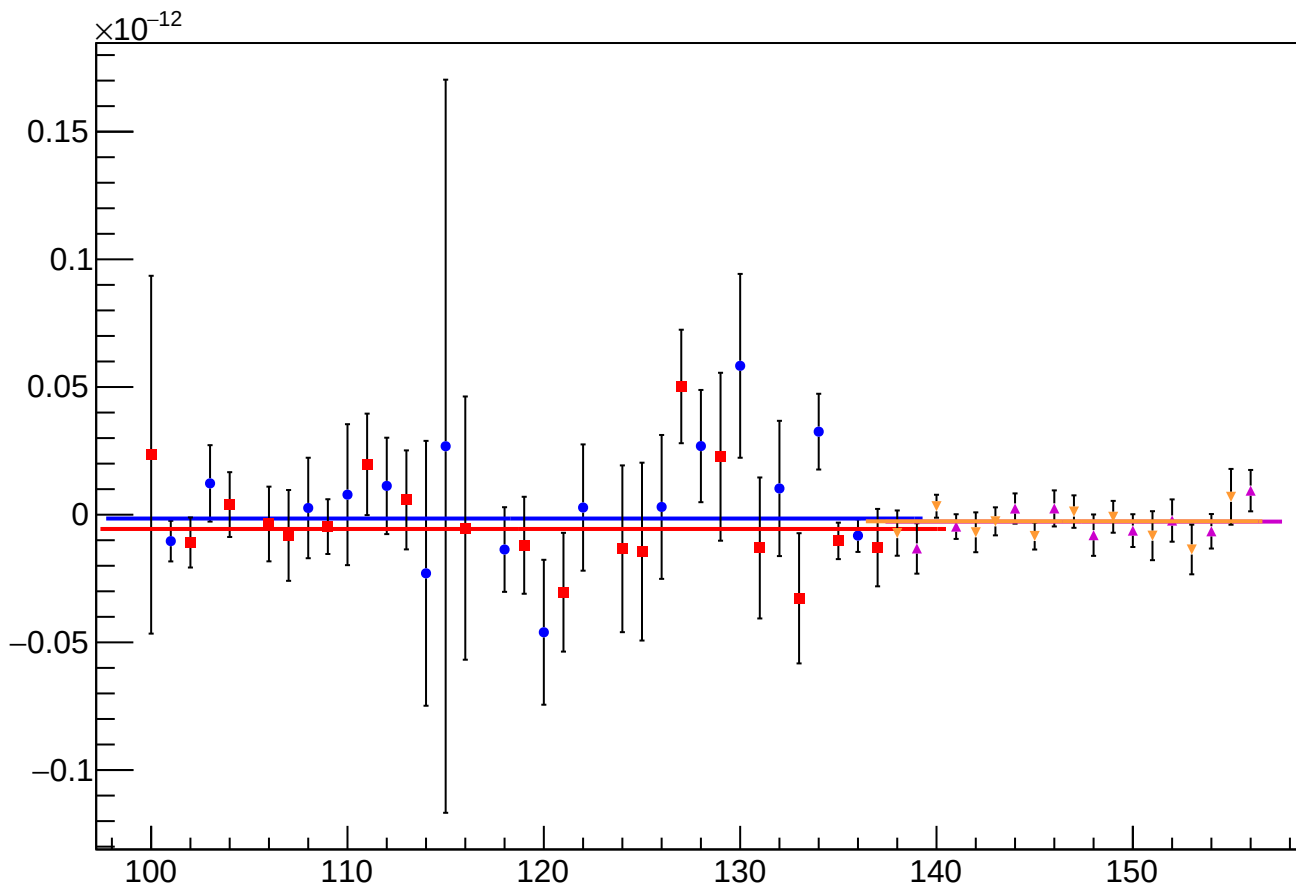
Right: 30.371+/-0.006 χ^2/NDF : 1172478.0/34

In: 28.503+/-0.005 χ^2/NDF : 891133.4/24

Out: 29.939+/-0.006 χ^2/NDF : 1379325.7/28

All: 29.188+/-0.004 χ^2/NDF : 2304371.0/53

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 : 6.3/9

Right Out: -0.000+/-0.000 χ^2/NDF : 13.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.9/8

Left: -0.000+/-0.000 χ^2/NDF : 12.2/18

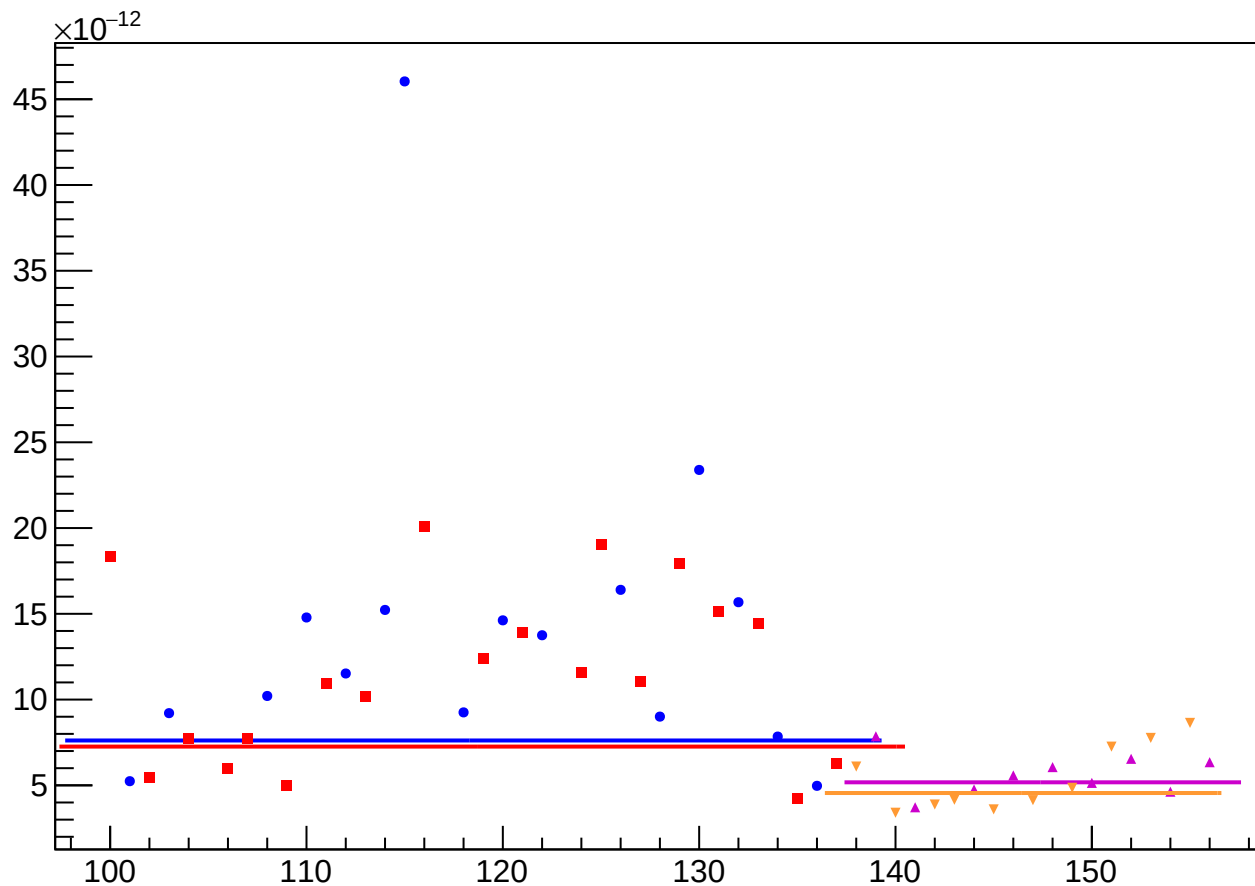
Right: -0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 22.9/24

Out: -0.000+/-0.000 χ^2/NDF : 20.1/28

All: -0.000+/-0.000 χ^2/NDF : 43.2/53

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2021305.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 951735.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1998231.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 479079.4/8

Left: 0.000+/-0.000 χ^2/NDF : 1511965.7/18

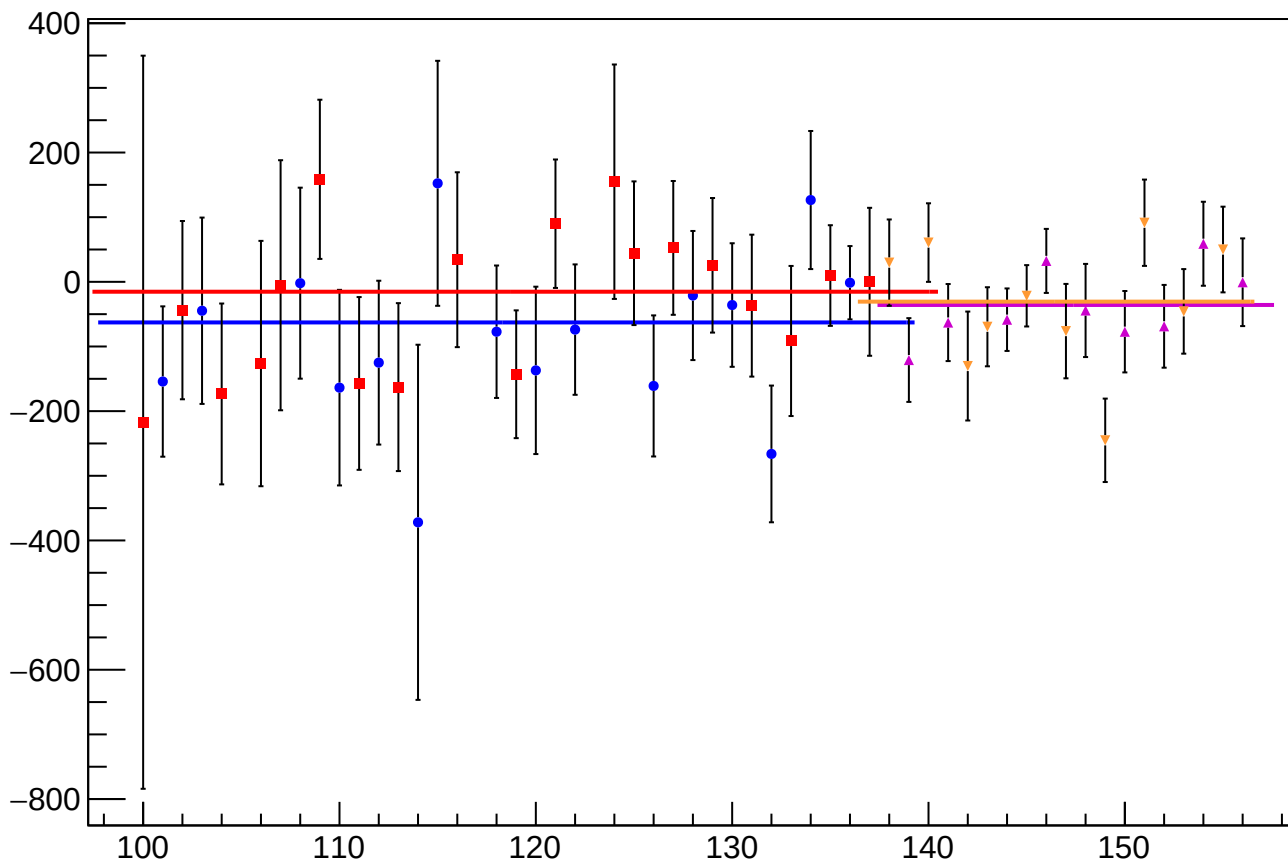
Right: 0.000+/-0.000 χ^2/NDF : 4028618.6/34

In: 0.000+/-0.000 χ^2/NDF : 3101605.3/24

Out: 0.000+/-0.000 χ^2/NDF : 3777198.7/28

All: 0.000+/-0.000 χ^2/NDF : 6976769.1/53

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.798 ± 27.213 χ^2/NDF : 13.5/15

Left Out: -30.628 ± 20.156 χ^2/NDF : 21.2/9

Right Out: -15.288 ± 27.770 χ^2/NDF : 11.5/18

Left In: -35.771 ± 20.004 χ^2/NDF : 7.2/8

Left: -33.219 ± 14.198 χ^2/NDF : 28.4/18

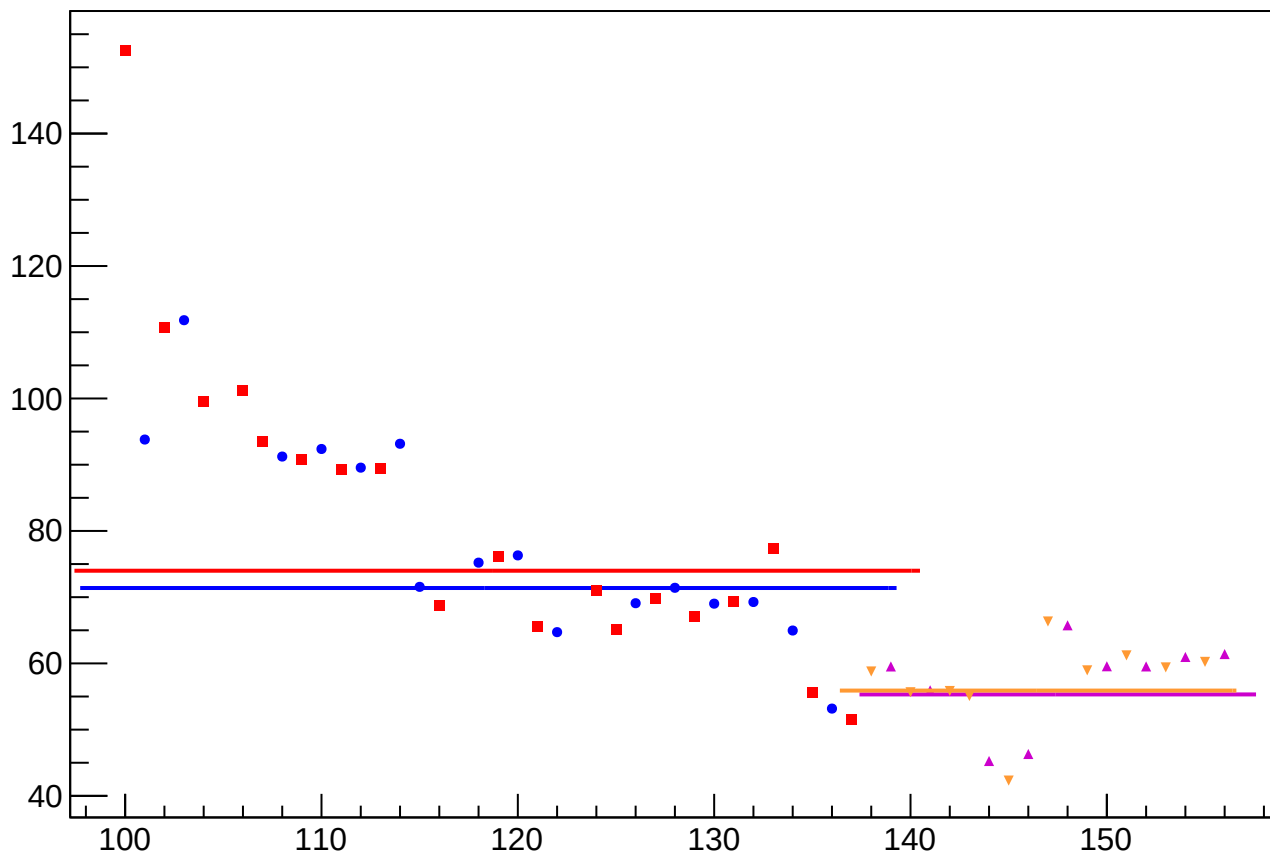
Right: -39.524 ± 19.436 χ^2/NDF : 26.4/34

In: -45.252 ± 16.118 χ^2/NDF : 21.3/24

Out: -25.335 ± 16.312 χ^2/NDF : 32.9/28

All: -35.413 ± 11.465 χ^2/NDF : 54.9/53

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: 55.897 $\pm$ 0.014 χ^2 /NDF: 240452.9/9

Right Out: 73.994 $\pm$ 0.020 χ^2 /NDF: 638445.5/18

Left In: 55.315 $\pm$ 0.014 χ^2 /NDF: 252277.3/8

Left: 55.604 $\pm$ 0.010 χ^2 /NDF: 493568.8/18

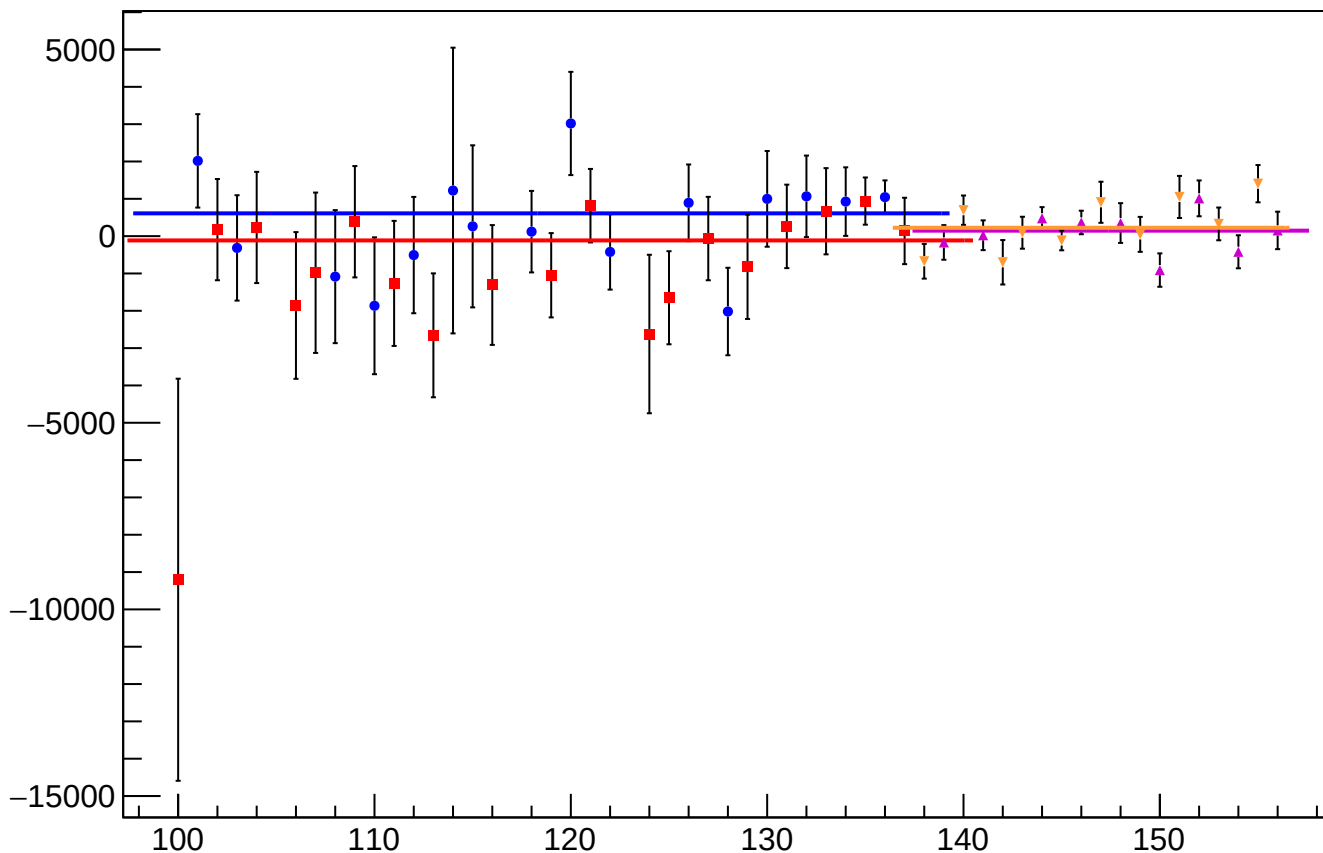
Right: 72.662 $\pm$ 0.014 χ^2 /NDF: 1238370.4/34

In: 60.952 $\pm$ 0.011 χ^2 /NDF: 1295839.8/24

Out: 62.141 $\pm$ 0.012 χ^2 /NDF: 1435184.0/28

All: 61.539 $\pm$ 0.008 χ^2 /NDF: 2736400.1/53

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: 224.285 $\pm$ 136.119 χ^2 /NDF:18.8/9

Right Out: -114.633 $\pm$ 284.312 χ^2 /NDF: 15.6/18

Left In: 147.018 $\pm$ 135.955 χ^2 /NDF:12.9/8

Left: 185.605 $\pm$ 96.193 χ^2 /NDF: 31.8/18

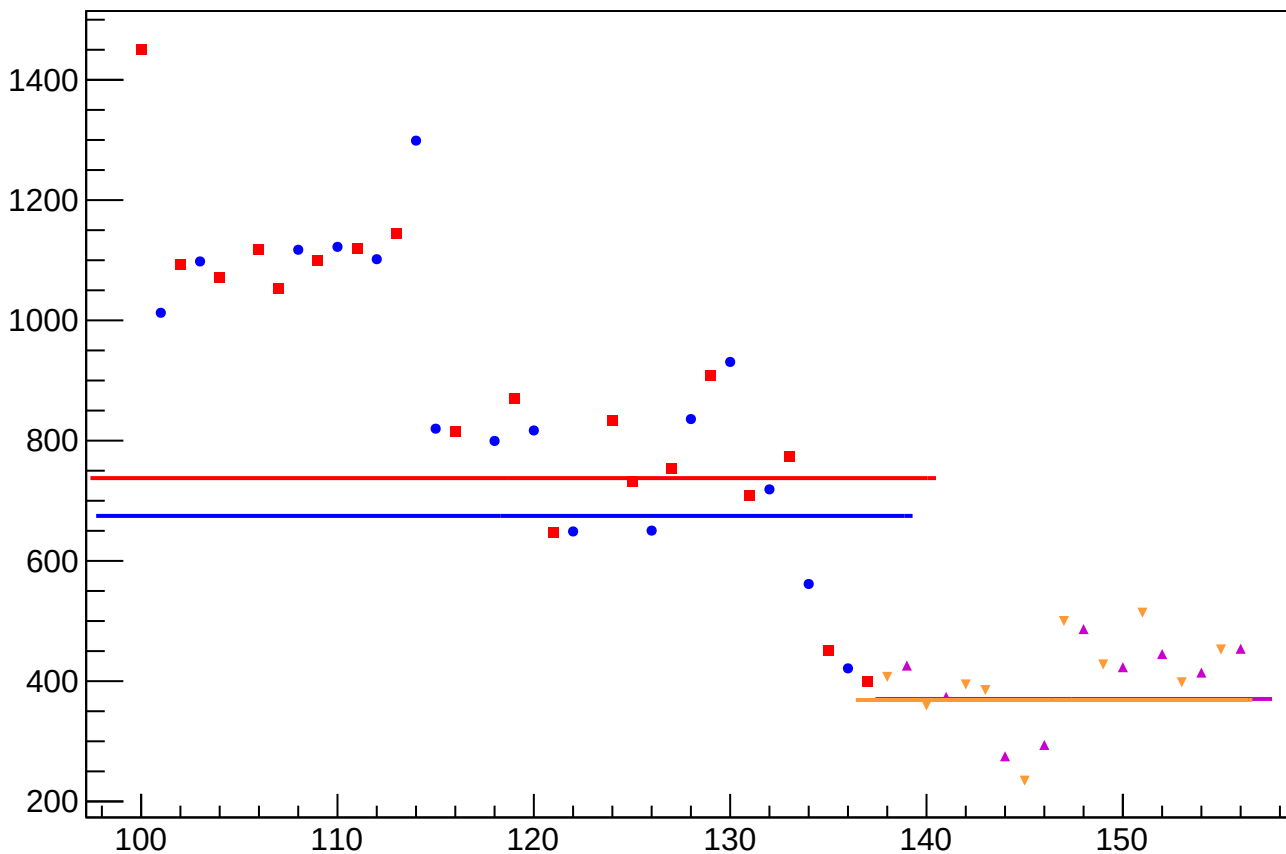
Right: 270.981 $\pm$ 194.553 χ^2 /NDF: 34.7/34

In: 242.572 $\pm$ 121.135 χ^2 /NDF:31.0/24

Out: 161.086 $\pm$ 122.773 χ^2 /NDF:35.5/28

All: 202.376 $\pm$ 86.229 χ^2 /NDF: 66.7/53

asym_sam_15_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 674.830 ± 0.189 $\chi^2/\text{NDF}: 1617598.7/15$

Left Out: 368.709 ± 0.096 $\chi^2/\text{NDF}: 883269.2/9$

Right Out: 737.674 ± 0.201 $\chi^2/\text{NDF}: 1516748.6/18$

Left In: 370.433 ± 0.096 $\chi^2/\text{NDF}: 596031.1/8$

Left: 369.572 ± 0.068 $\chi^2/\text{NDF}: 1479460.8/18$

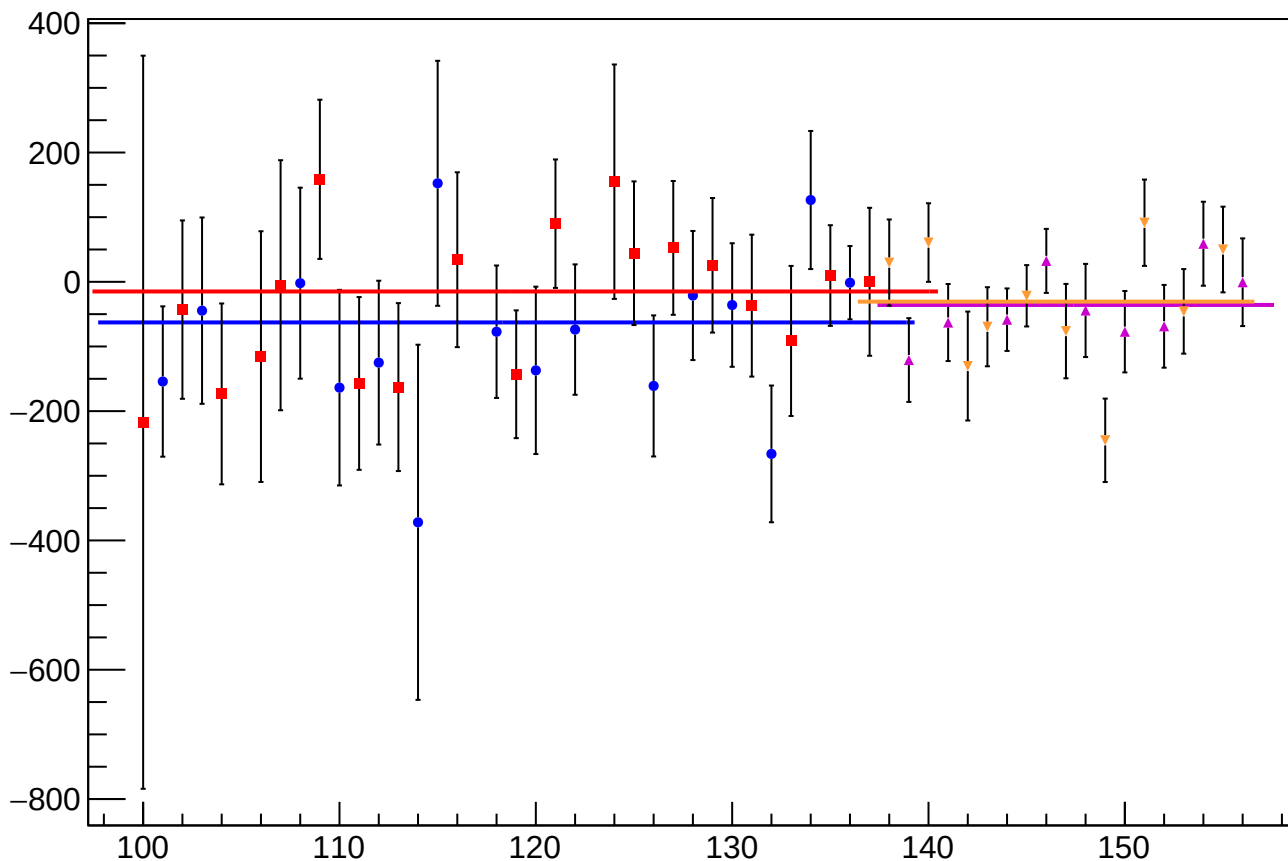
Right: 704.257 ± 0.138 $\chi^2/\text{NDF}: 3186306.4/34$

In: 433.181 ± 0.086 $\chi^2/\text{NDF}: 4280334.9/24$

Out: 437.511 ± 0.087 $\chi^2/\text{NDF}: 5140216.6/28$

All: 435.317 ± 0.061 $\chi^2/\text{NDF}: 9421812.5/53$

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: -30.629 ± 20.156 χ^2/NDF : 21.2/9

Right Out: -14.932 ± 27.783 χ^2/NDF : 11.4/18

Left In: -35.771 ± 20.004 χ^2/NDF : 7.2/8

Left: -33.220 ± 14.198 χ^2/NDF : 28.4/18

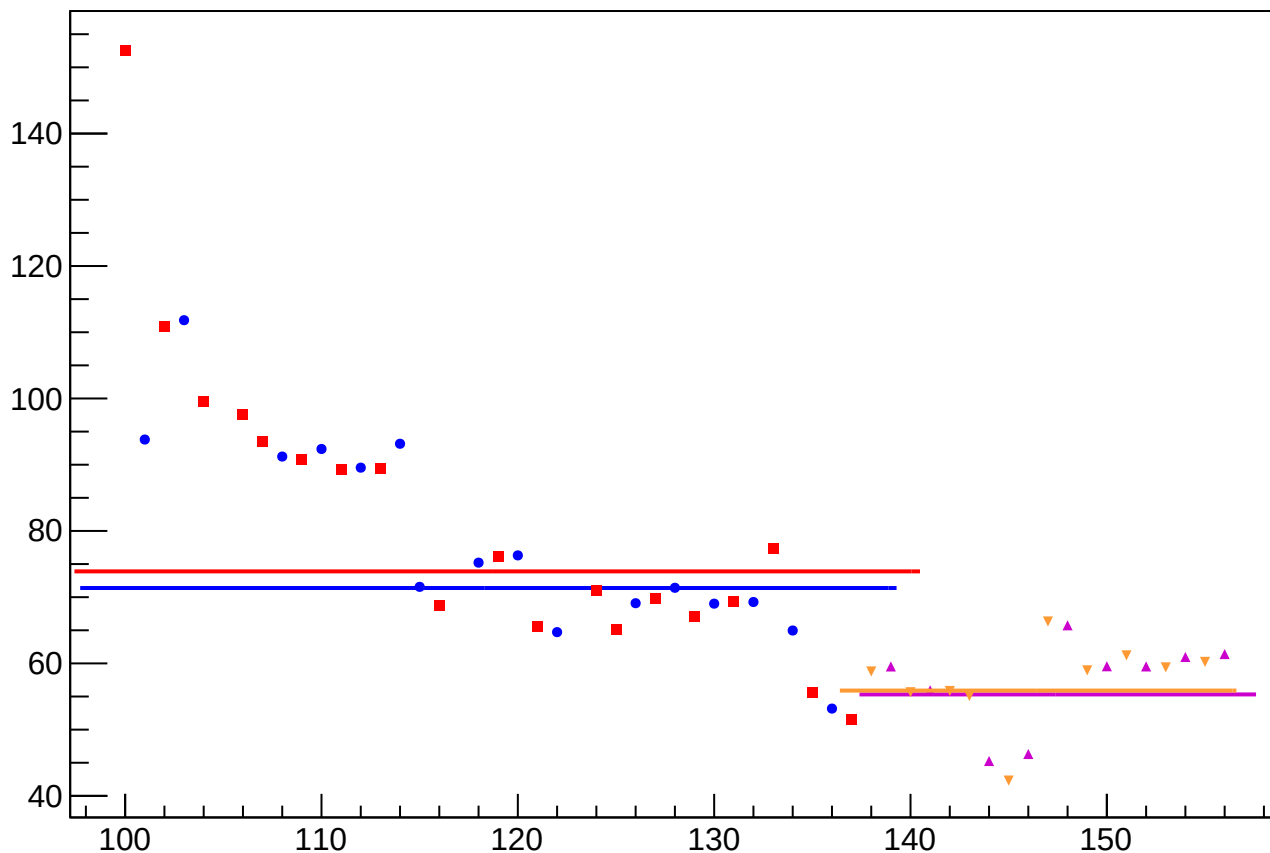
Right: -39.357 ± 19.441 χ^2/NDF : 26.4/34

In: -45.249 ± 16.118 χ^2/NDF : 21.3/24

Out: -25.216 ± 16.315 χ^2/NDF : 32.8/28

All: -35.354 ± 11.466 χ^2/NDF : 54.9/53

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: 55.897 $\pm$ 0.014 χ^2 /NDF: 240452.9/9

Right Out: 73.894 $\pm$ 0.020 χ^2 /NDF: 627014.3/18

Left In: 55.315 $\pm$ 0.014 χ^2 /NDF: 252277.3/8

Left: 55.604 $\pm$ 0.010 χ^2 /NDF: 493568.8/18

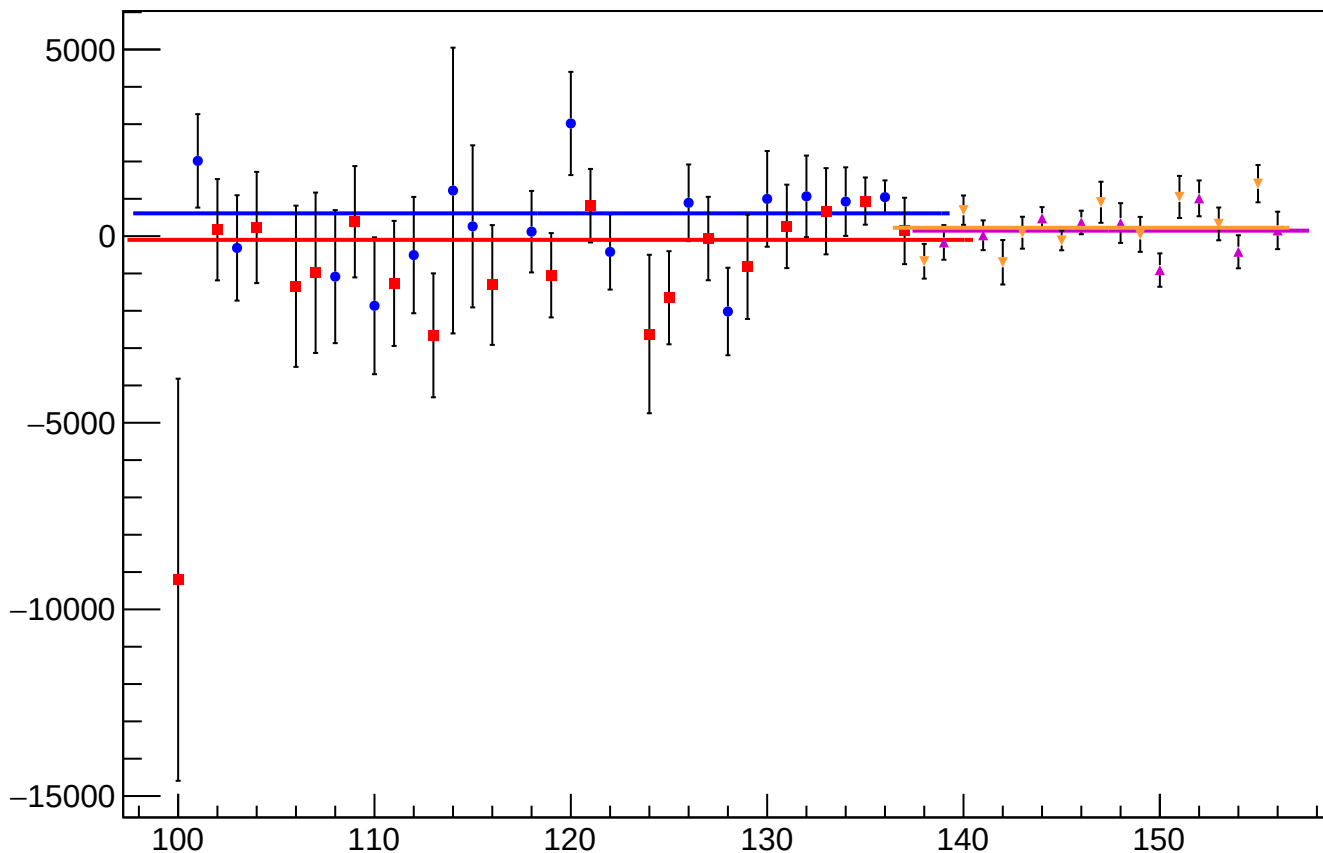
Right: 72.613 $\pm$ 0.014 χ^2 /NDF: 1226261.8/34

In: 60.952 $\pm$ 0.011 χ^2 /NDF: 1295842.4/24

Out: 62.103 $\pm$ 0.012 χ^2 /NDF: 1417293.8/28

All: 61.520 $\pm$ 0.008 χ^2 /NDF: 2718171.0/53

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: 224.284 $\pm$ 136.119 χ^2 /NDF:18.8/9

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: 147.016 $\pm$ 135.955 χ^2 /NDF:12.9/8

Left: 185.604 $\pm$ 96.193 χ^2 /NDF: 31.8/18

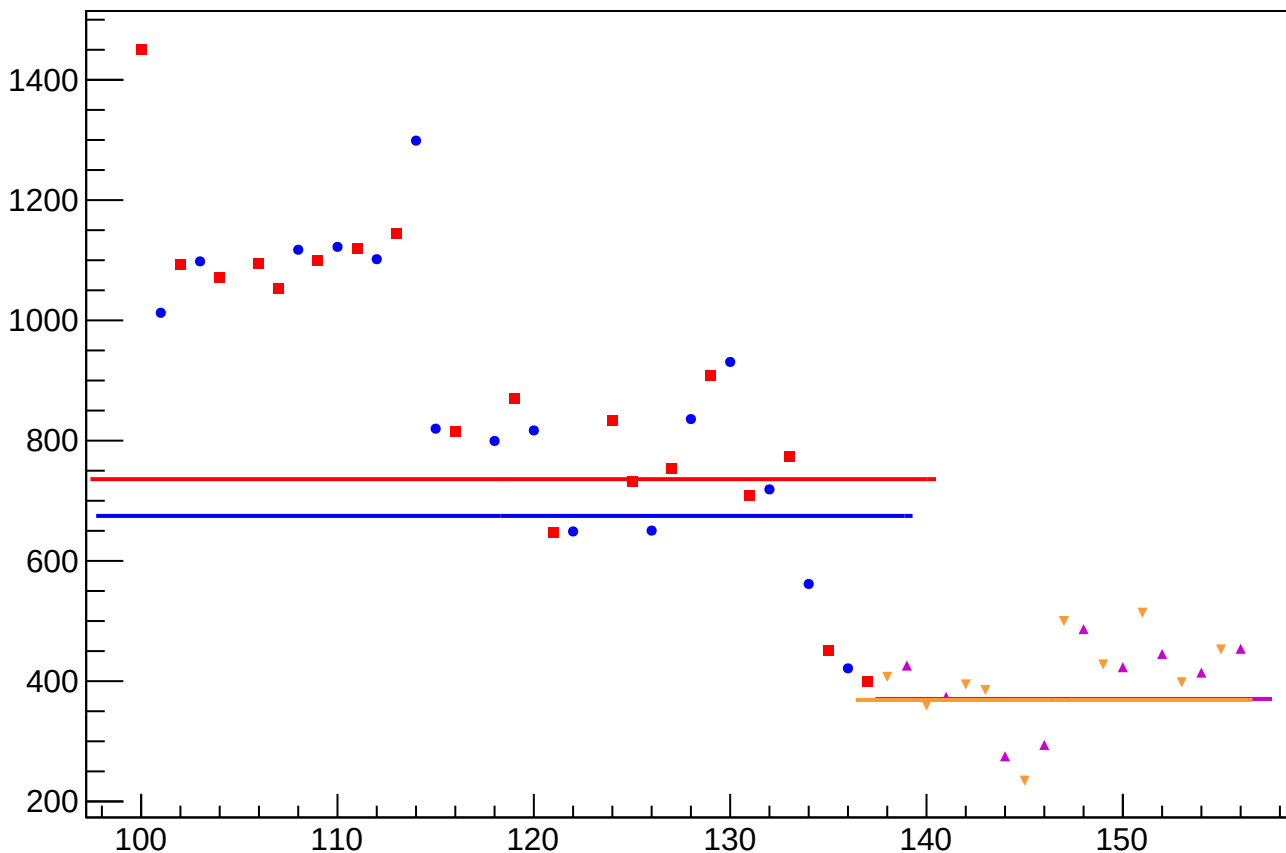
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 242.568 $\pm$ 121.135 χ^2 /NDF:31.0/24

Out: 164.075 $\pm$ 122.815 χ^2 /NDF:35.0/28

All: 203.862 $\pm$ 86.243 χ^2 /NDF: 66.1/53

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: 368.709+/-0.096 χ^2/NDF : 883275.6/9

Right Out: 735.919+/-0.201 χ^2/NDF : 1496977.2/18

Left In: 370.433+/-0.096 χ^2/NDF : 596030.9/8

Left: 369.572+/-0.068 χ^2/NDF : 1479467.1/18

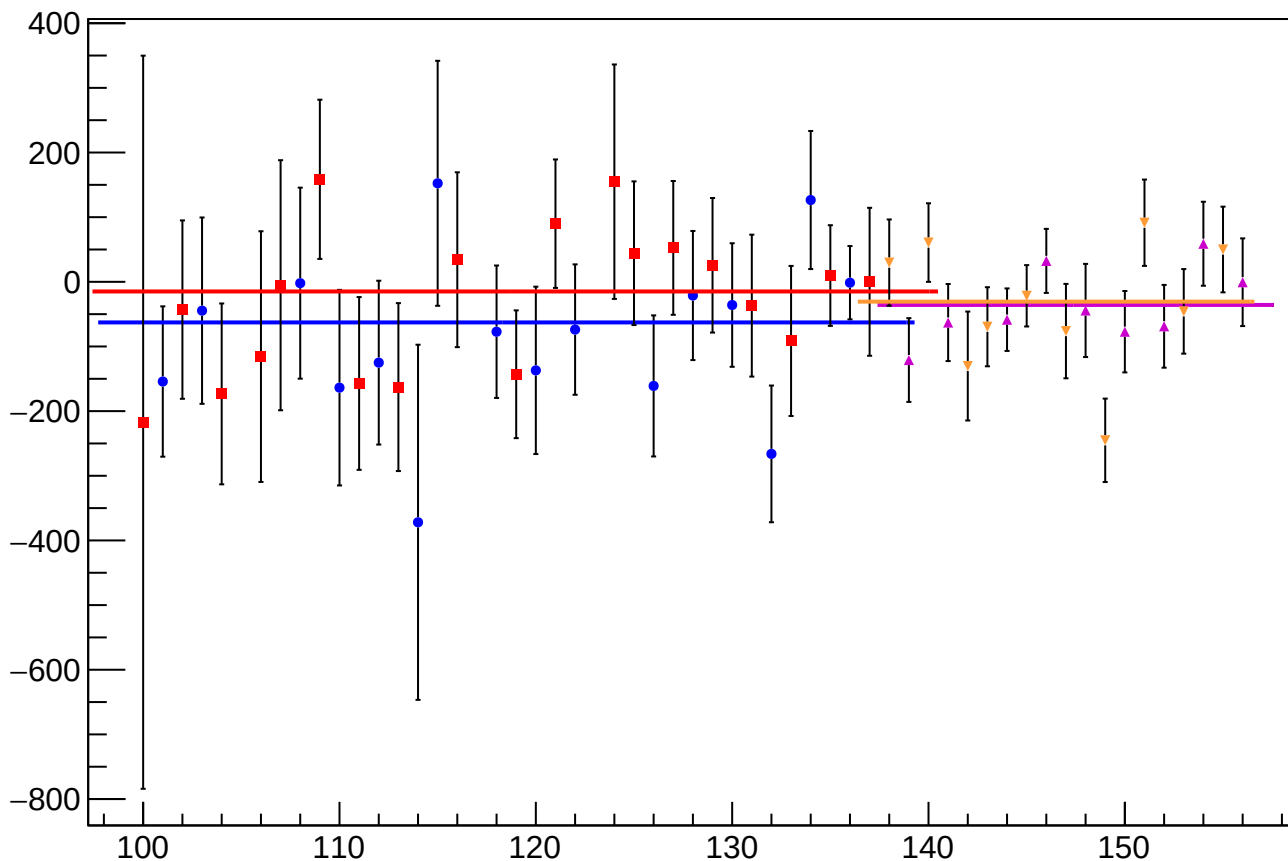
Right: 703.381+/-0.138 χ^2/NDF : 3163603.4/34

In: 433.181+/-0.086 χ^2/NDF : 4280359.2/24

Out: 436.981+/-0.087 χ^2/NDF : 5086407.2/28

All: 435.055+/-0.061 χ^2/NDF : 9367737.0/53

eigen_cor_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.789 $\pm$ 27.213 χ^2/NDF : 13.5/15

Left Out: -30.629 $\pm$ 20.156 χ^2/NDF : 21.2/9

Right Out: -14.932 $\pm$ 27.783 χ^2/NDF : 11.4/18

Left In: -35.771 $\pm$ 20.004 χ^2/NDF : 7.2/8

Left: -33.220 $\pm$ 14.198 χ^2/NDF : 28.4/18

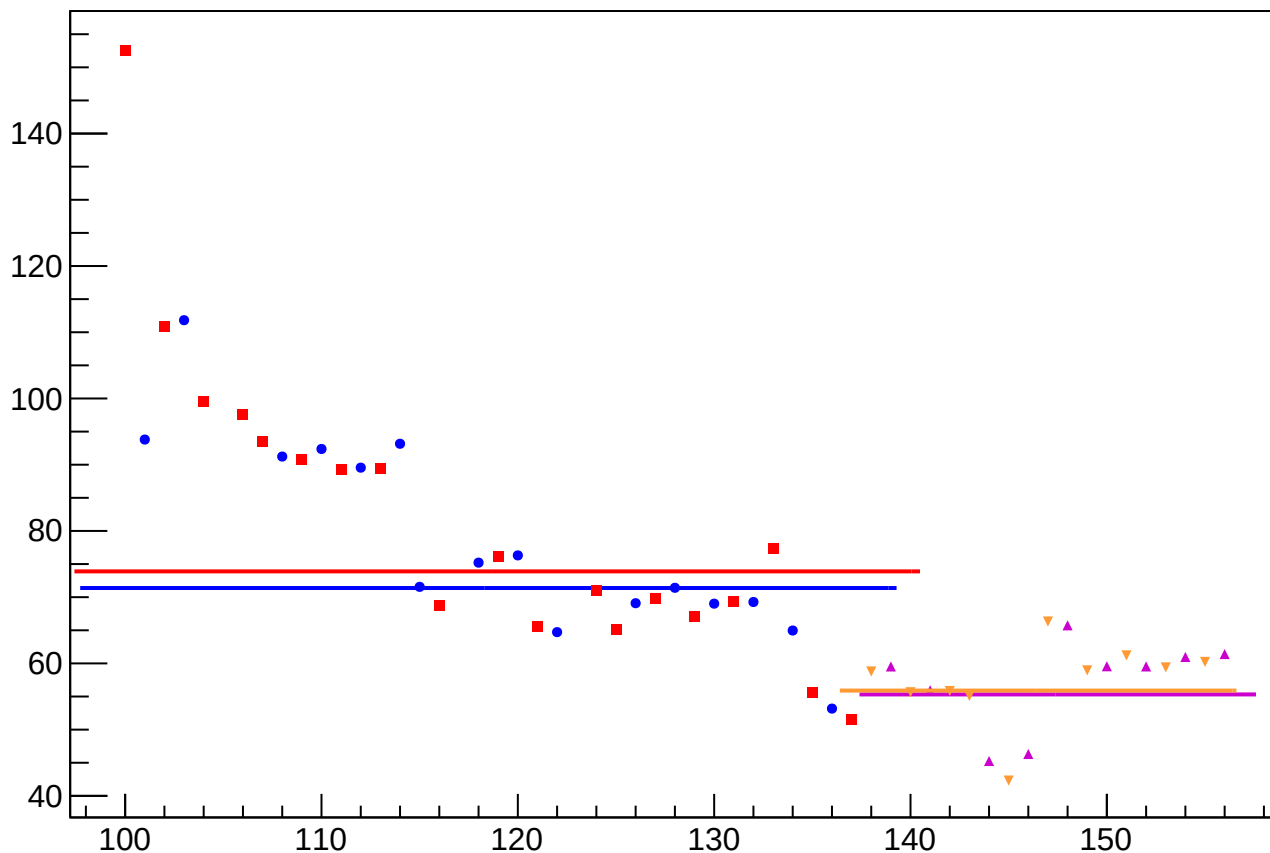
Right: -39.357 $\pm$ 19.441 χ^2/NDF : 26.4/34

In: -45.249 $\pm$ 16.118 χ^2/NDF : 21.3/24

Out: -25.216 $\pm$ 16.315 χ^2/NDF : 32.8/28

All: -35.354 $\pm$ 11.466 χ^2/NDF : 54.9/53

eigen_cor_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383+/-0.019 χ^2/NDF : 590911.7/15

Left Out: 55.897+/-0.014 χ^2/NDF : 240452.9/9

Right Out: 73.894+/-0.020 χ^2/NDF : 627014.3/18

Left In: 55.315+/-0.014 χ^2/NDF : 252277.3/8

Left: 55.604+/-0.010 χ^2/NDF : 493568.8/18

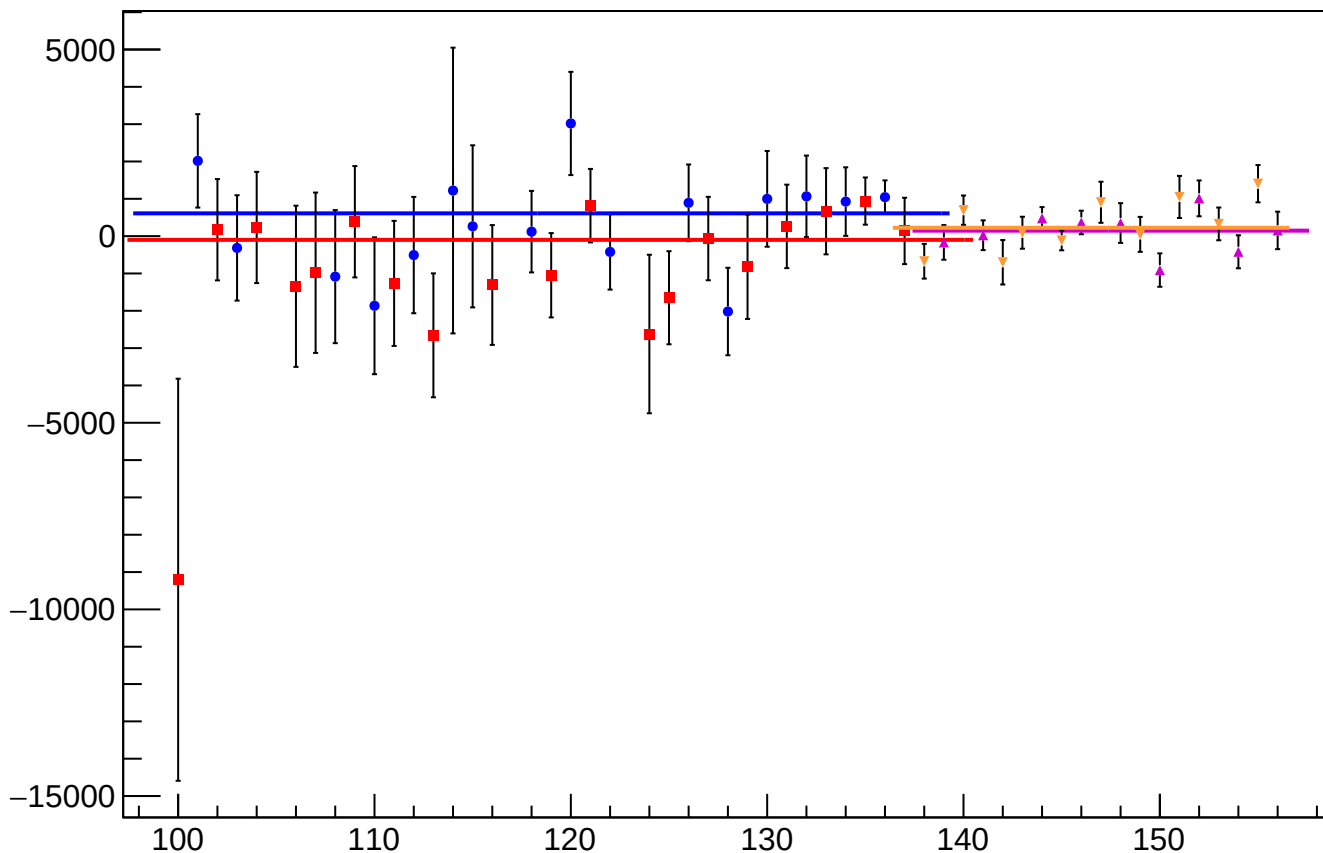
Right: 72.613+/-0.014 χ^2/NDF : 1226261.8/34

In: 60.952+/-0.011 χ^2/NDF : 1295842.4/24

Out: 62.103+/-0.012 χ^2/NDF : 1417293.8/28

All: 61.520+/-0.008 χ^2/NDF : 2718171.0/53

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: 224.284 $\pm$ 136.119 χ^2 /NDF:18.8/9

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: 147.016 $\pm$ 135.955 χ^2 /NDF:12.9/8

Left: 185.604 $\pm$ 96.193 χ^2 /NDF: 31.8/18

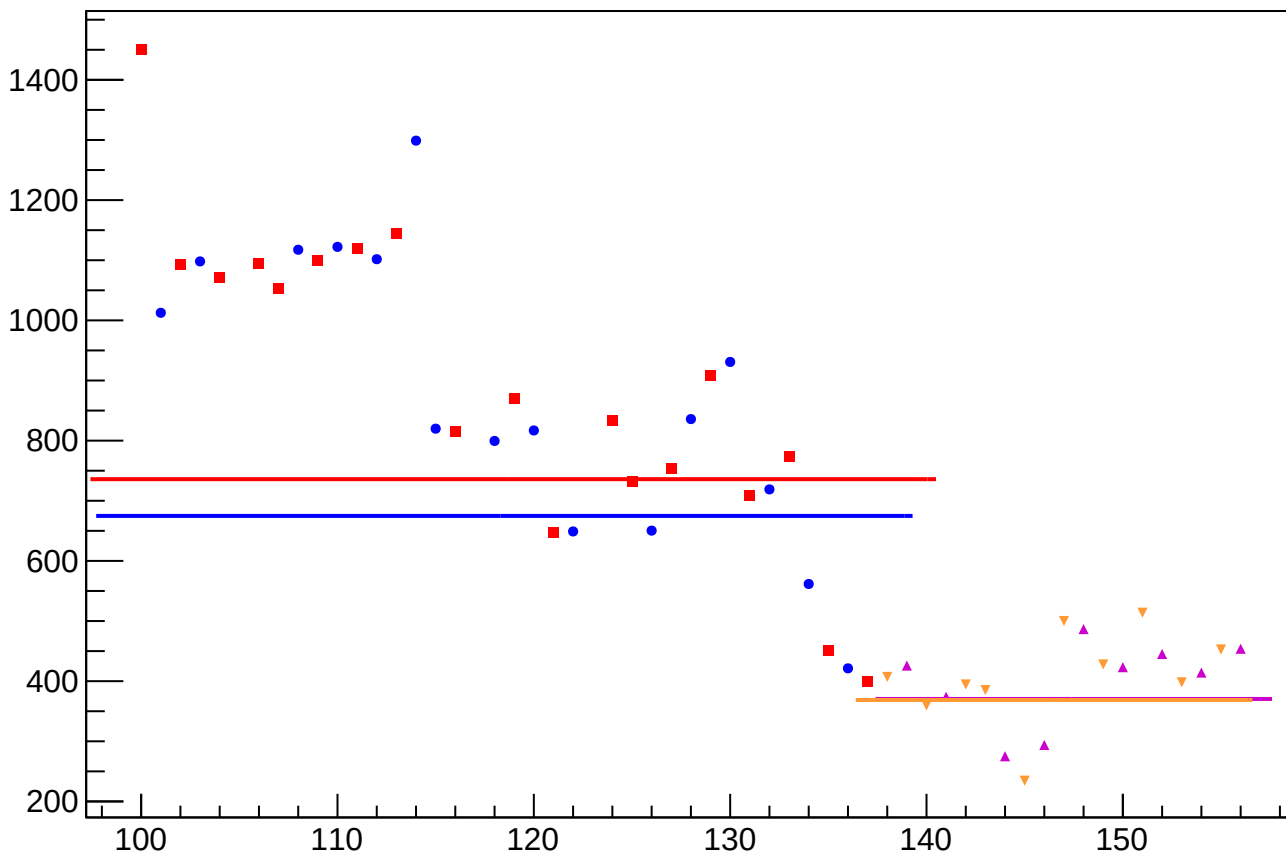
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 242.568 $\pm$ 121.135 χ^2 /NDF:31.0/24

Out: 164.075 $\pm$ 122.815 χ^2 /NDF:35.0/28

All: 203.862 $\pm$ 86.243 χ^2 /NDF: 66.1/53

asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 674.831 $\pm$ 0.189 χ^2 /NDF: 1617624.1/15

Left Out: 368.709 $\pm$ 0.096 χ^2 /NDF: 883275.6/9

Right Out: 735.919 $\pm$ 0.201 χ^2 /NDF: 1496977.2/18

Left In: 370.433 $\pm$ 0.096 χ^2 /NDF: 596030.9/8

Left: 369.572 $\pm$ 0.068 χ^2 /NDF: 1479467.1/18

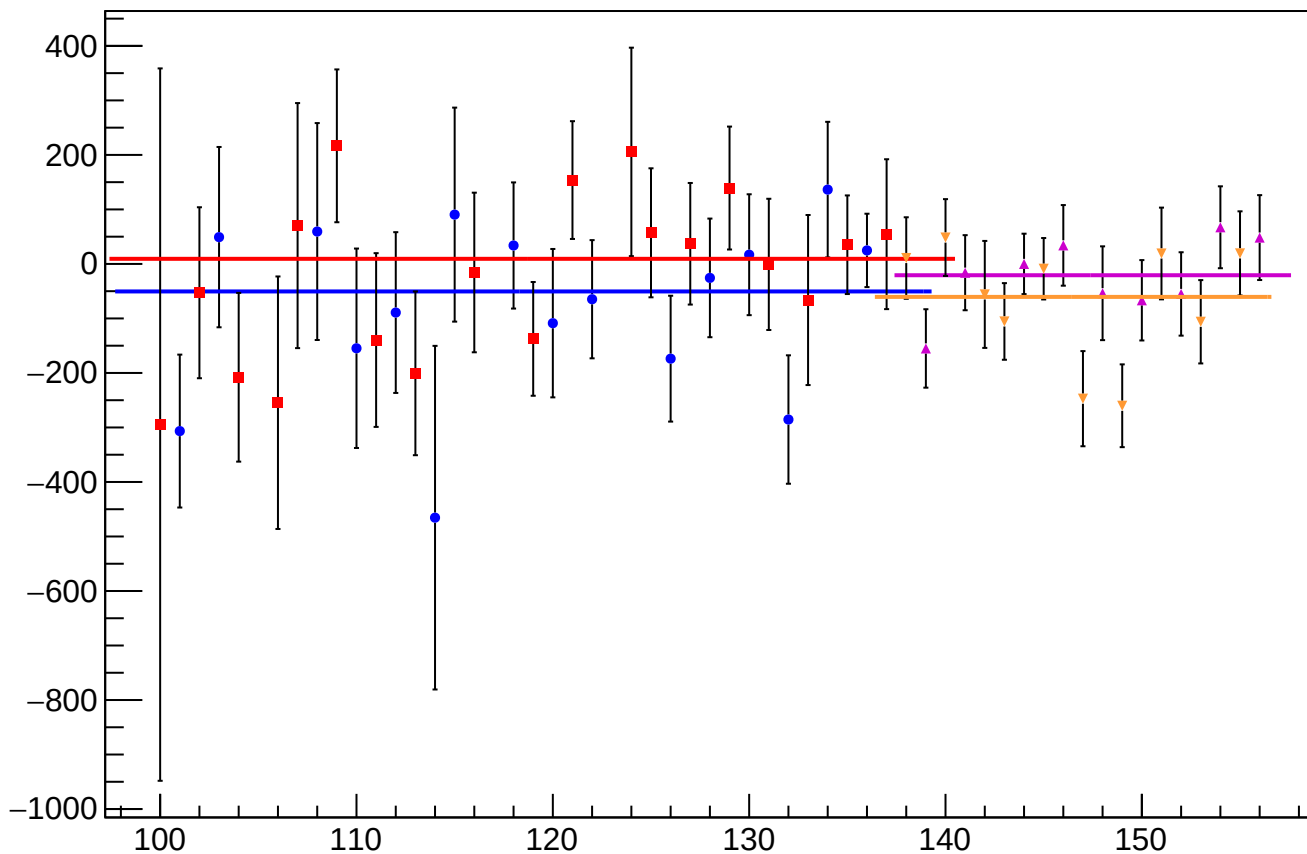
Right: 703.381 $\pm$ 0.138 χ^2 /NDF: 3163603.4/34

In: 433.181 $\pm$ 0.086 χ^2 /NDF: 4280359.2/24

Out: 436.981 $\pm$ 0.087 χ^2 /NDF: 5086407.2/28

All: 435.055 $\pm$ 0.061 χ^2 /NDF: 9367737.0/53

dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.465 ± 31.061 χ^2/NDF : 16.4/15

Left Out: -60.470 ± 23.659 χ^2/NDF : 18.4/9

Right Out: 9.380 ± 31.235 χ^2/NDF : 15.6/18

Left In: -20.731 ± 23.943 χ^2/NDF : 7.1/8

Left: -40.838 ± 16.829 χ^2/NDF : 26.8/18

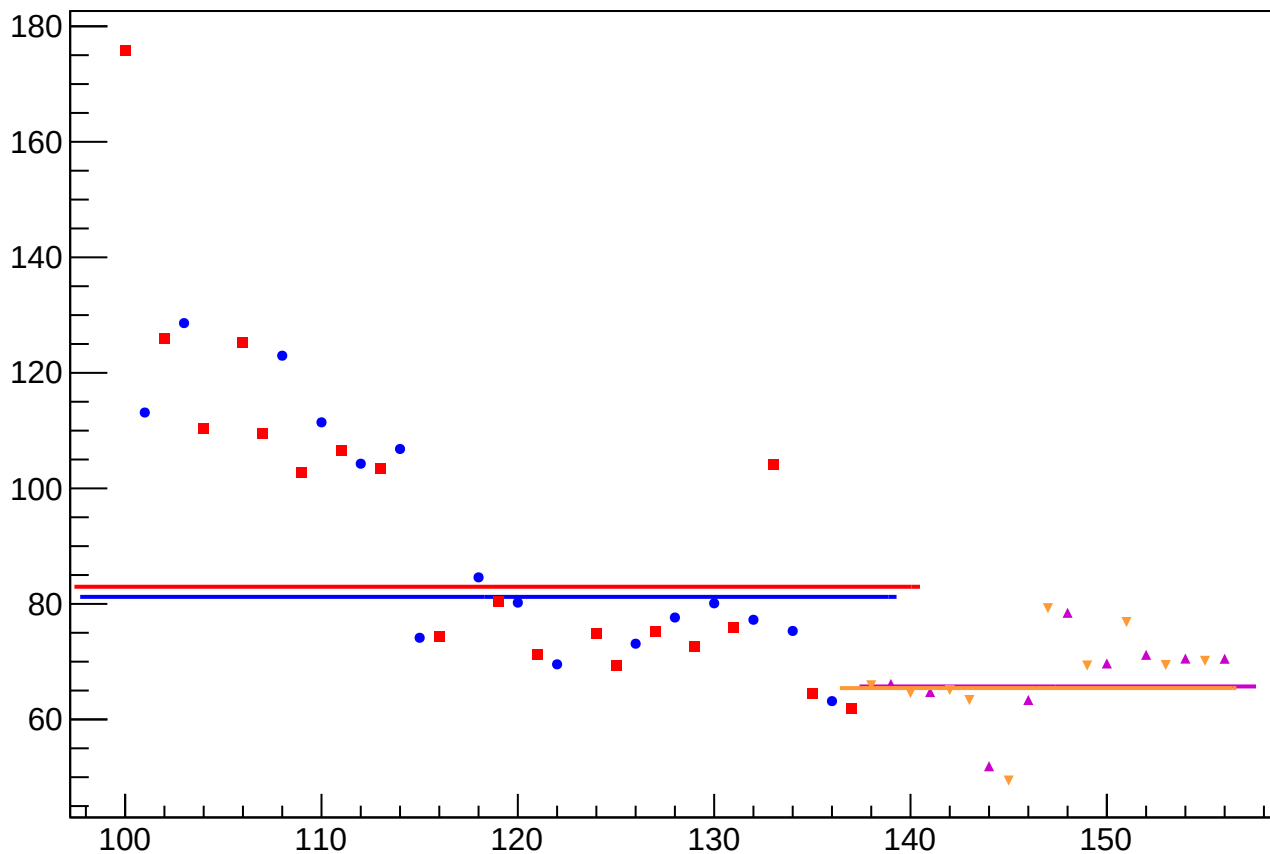
Right: -20.709 ± 22.025 χ^2/NDF : 33.8/34

In: -31.814 ± 18.963 χ^2/NDF : 24.1/24

Out: -35.005 ± 18.859 χ^2/NDF : 37.1/28

All: -33.418 ± 13.372 χ^2/NDF : 61.2/53

dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218 +/- 0.022 χ^2/NDF : 662873.6/15

Left Out: 65.426 +/- 0.017 χ^2/NDF : 268861.6/9

Right Out: 82.971 +/- 0.022 χ^2/NDF : 730384.9/18

Left In: 65.709 +/- 0.017 χ^2/NDF : 202509.8/8

Left: 65.566 +/- 0.012 χ^2/NDF : 471513.1/18

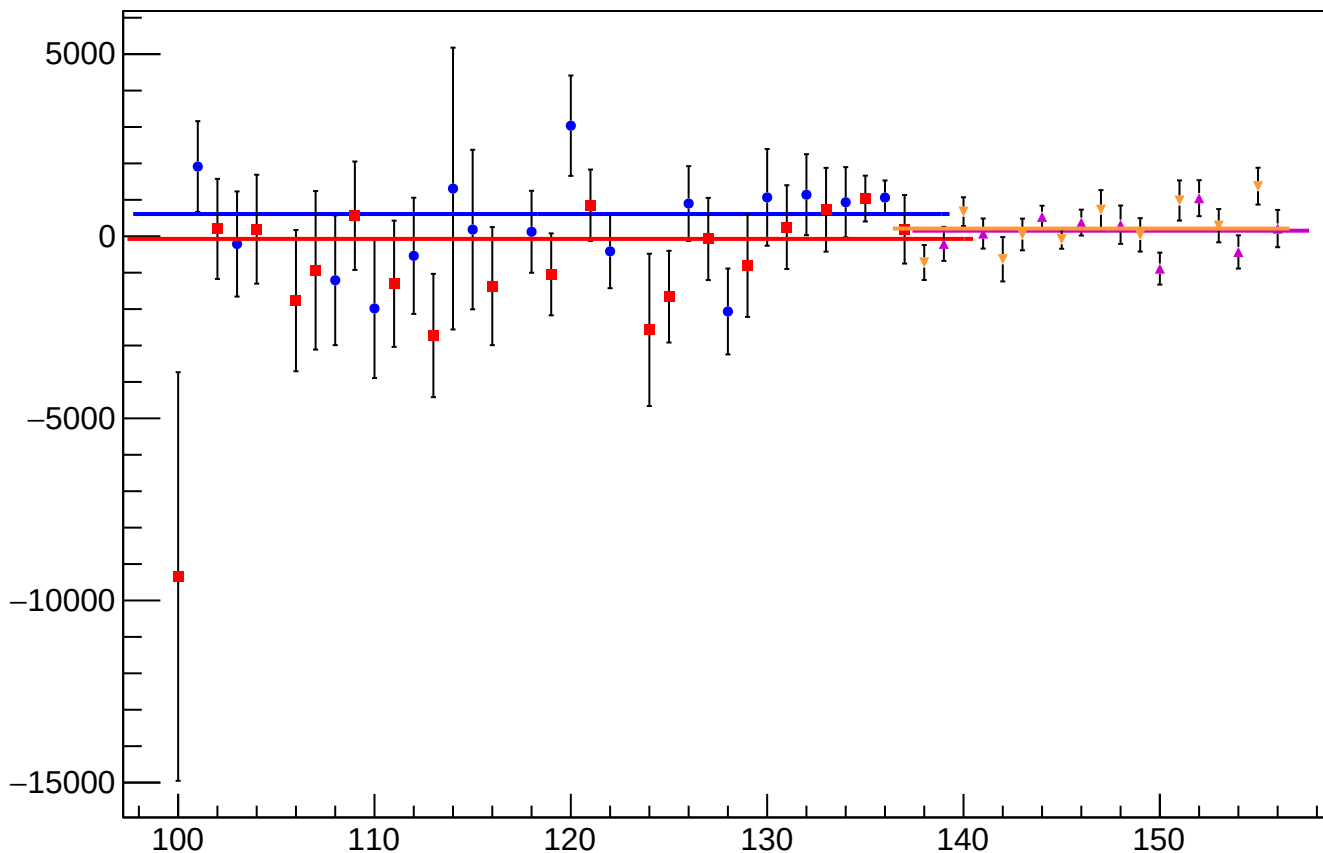
Right: 82.090 +/- 0.016 χ^2/NDF : 1396425.1/34

In: 71.489 +/- 0.013 χ^2/NDF : 1178158.8/24

Out: 71.822 +/- 0.013 χ^2/NDF : 1400246.9/28

All: 71.657 +/- 0.009 χ^2/NDF : 2578715.1/53

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: 211.394 $\pm$ 136.816 χ^2 /NDF: 16.8/9

Right Out: -72.311 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: 152.789 $\pm$ 140.586 χ^2 /NDF: 13.2/8

Left: 182.888 $\pm$ 98.049 χ^2 /NDF: 30.1/18

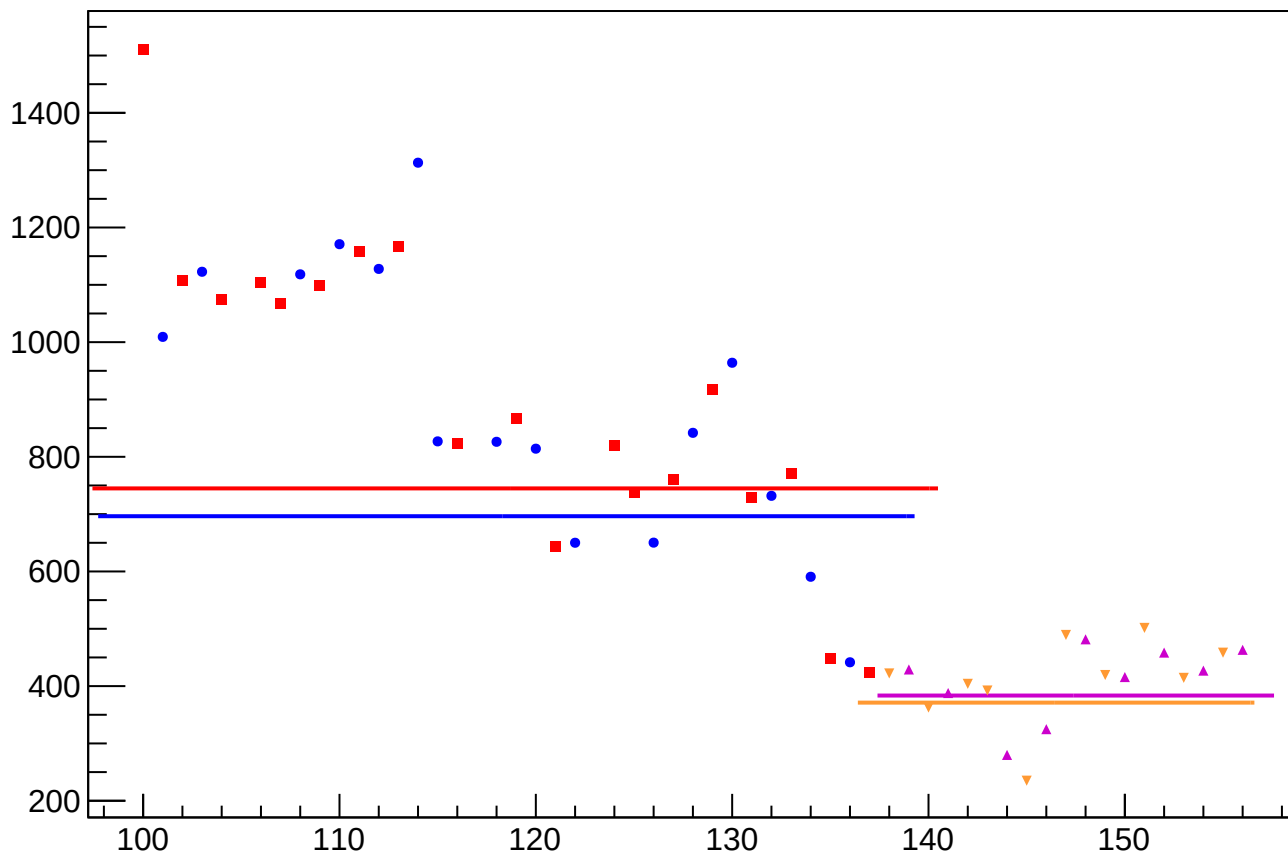
Right: 284.669 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 248.160 $\pm$ 125.081 χ^2 /NDF: 31.2/24

Out: 158.809 $\pm$ 123.487 χ^2 /NDF: 33.8/28

All: 202.912 $\pm$ 87.877 χ^2 /NDF: 65.2/53

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: 371.204+/-0.097 χ^2/NDF : 880618.6/9

Right Out: 744.875+/-0.203 χ^2/NDF : 1498361.7/18

Left In: 383.550+/-0.099 χ^2/NDF : 496797.0/8

Left: 377.209+/-0.069 χ^2/NDF : 1385337.4/18

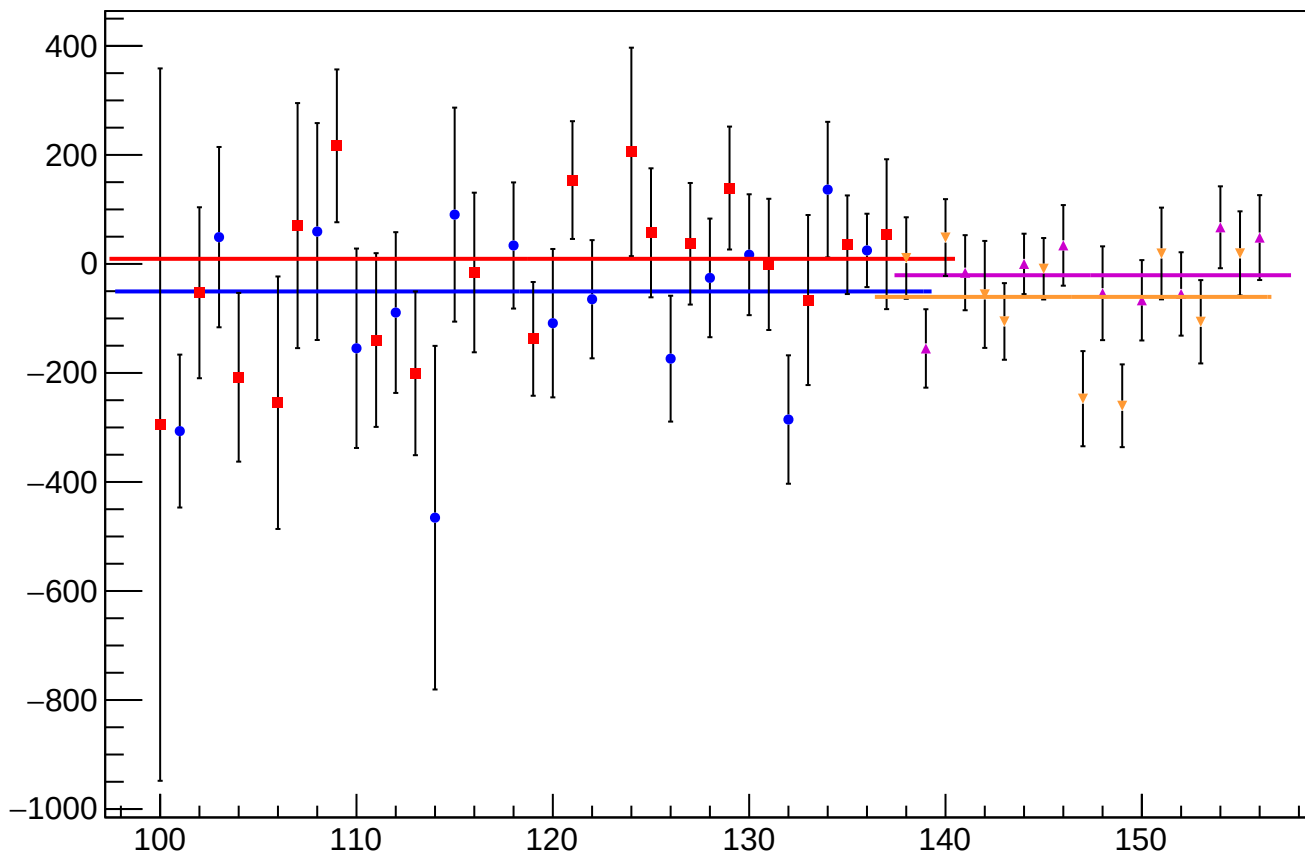
Right: 719.512+/-0.140 χ^2/NDF : 3043745.4/34

In: 448.747+/-0.088 χ^2/NDF : 4076106.9/24

Out: 440.464+/-0.087 χ^2/NDF : 5144207.1/28

All: 444.552+/-0.062 χ^2/NDF : 9224756.3/53

eigen_dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.466 ± 31.061 χ^2/NDF : 16.4/15

Left Out: -60.469 ± 23.659 χ^2/NDF : 18.4/9

Right Out: 9.381 ± 31.235 χ^2/NDF : 15.6/18

Left In: -20.731 ± 23.943 χ^2/NDF : 7.1/8

Left: -40.837 ± 16.829 χ^2/NDF : 26.8/18

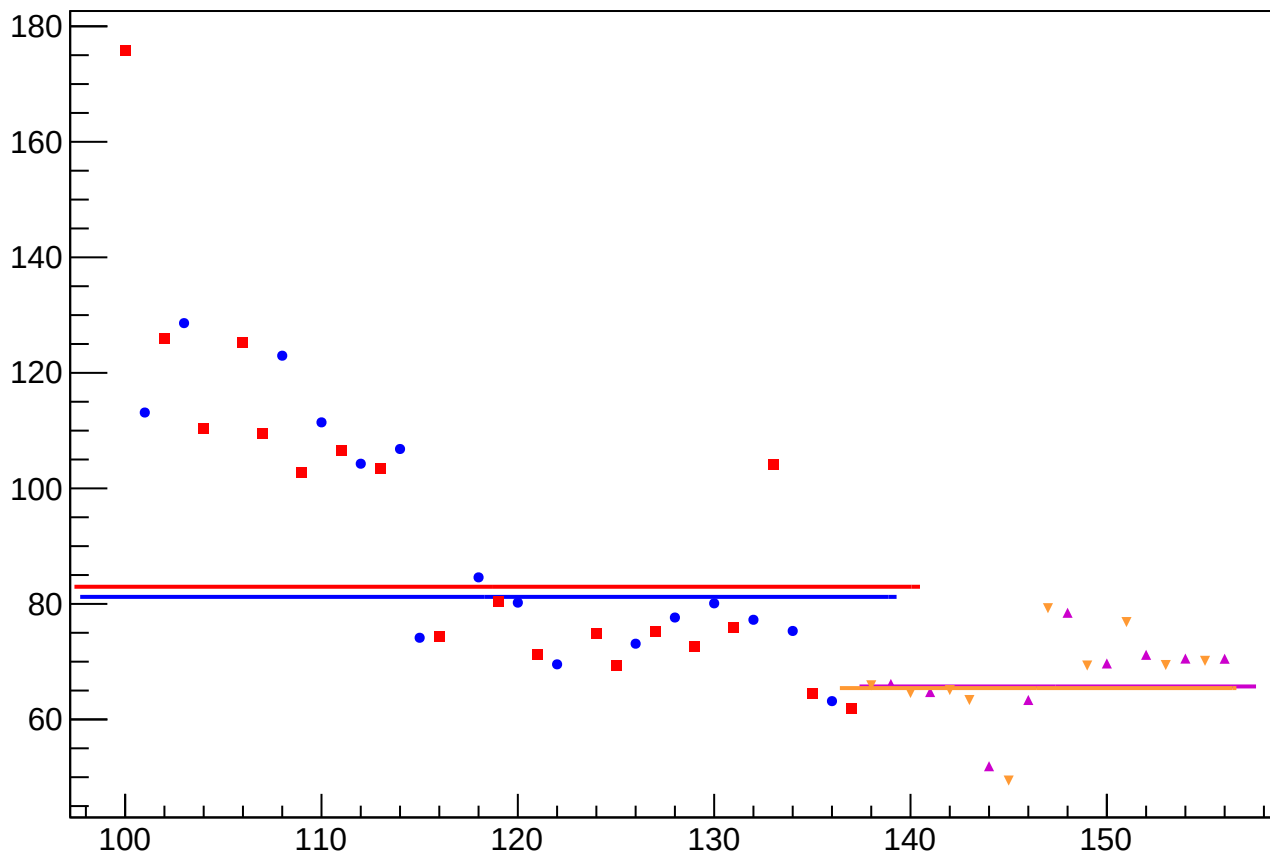
Right: -20.709 ± 22.025 χ^2/NDF : 33.8/34

In: -31.813 ± 18.963 χ^2/NDF : 24.1/24

Out: -35.004 ± 18.859 χ^2/NDF : 37.1/28

All: -33.417 ± 13.372 χ^2/NDF : 61.2/53

eigen_dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218 $\pm$ 0.022 χ^2 /NDF: 662862.1/15

Left Out: 65.426 $\pm$ 0.017 χ^2 /NDF: 268856.2/9

Right Out: 82.971 $\pm$ 0.022 χ^2 /NDF: 730375.6/18

Left In: 65.709 $\pm$ 0.017 χ^2 /NDF: 202508.0/8

Left: 65.566 $\pm$ 0.012 χ^2 /NDF: 471505.8/18

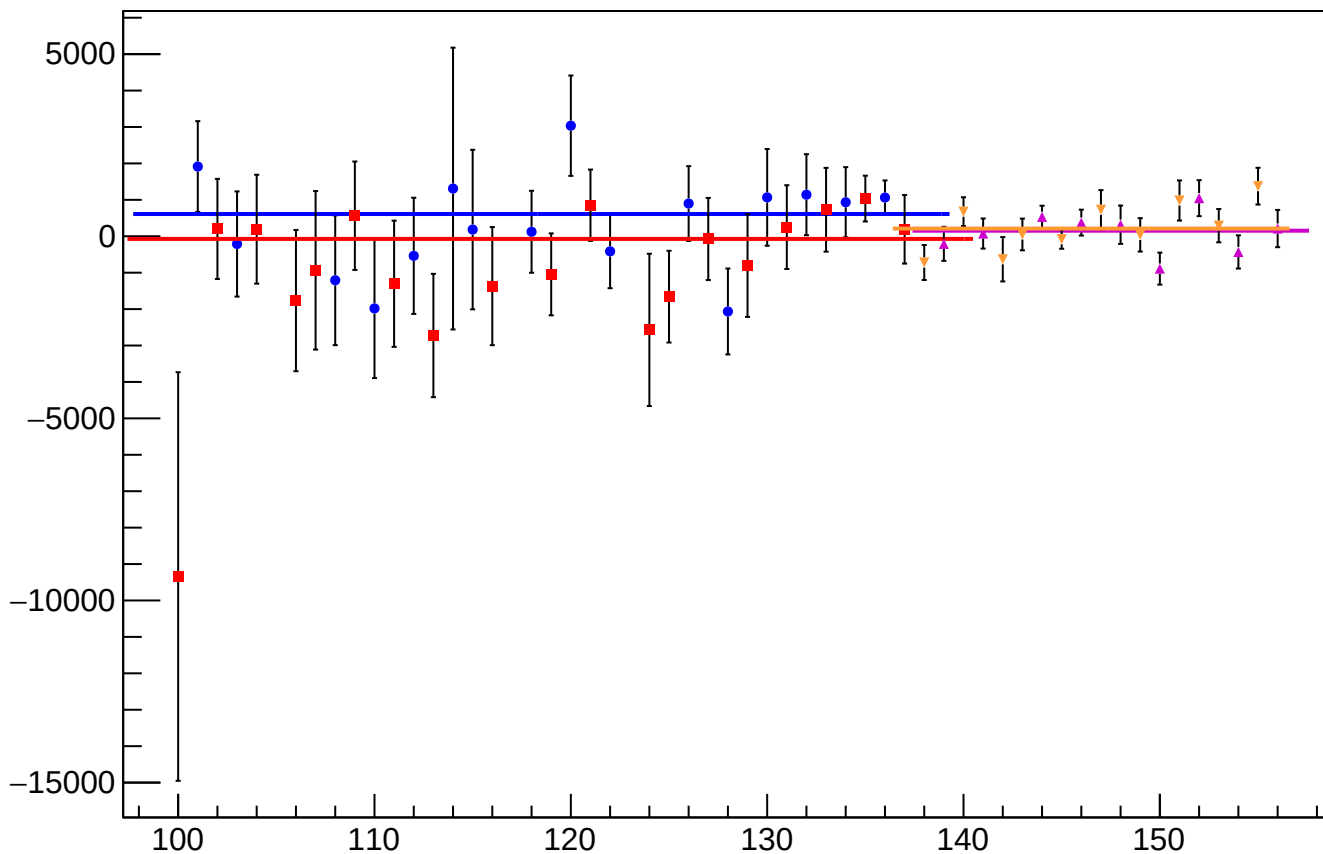
Right: 82.089 $\pm$ 0.016 χ^2 /NDF: 1396405.1/34

In: 71.489 $\pm$ 0.013 χ^2 /NDF: 1178119.7/24

Out: 71.822 $\pm$ 0.013 χ^2 /NDF: 1400209.9/28

All: 71.657 $\pm$ 0.009 χ^2 /NDF: 2578639.2/53

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: 211.393 $\pm$ 136.816 χ^2 /NDF: 16.8/9

Right Out: -72.313 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: 152.790 $\pm$ 140.586 χ^2 /NDF: 13.2/8

Left: 182.888 $\pm$ 98.049 χ^2 /NDF: 30.1/18

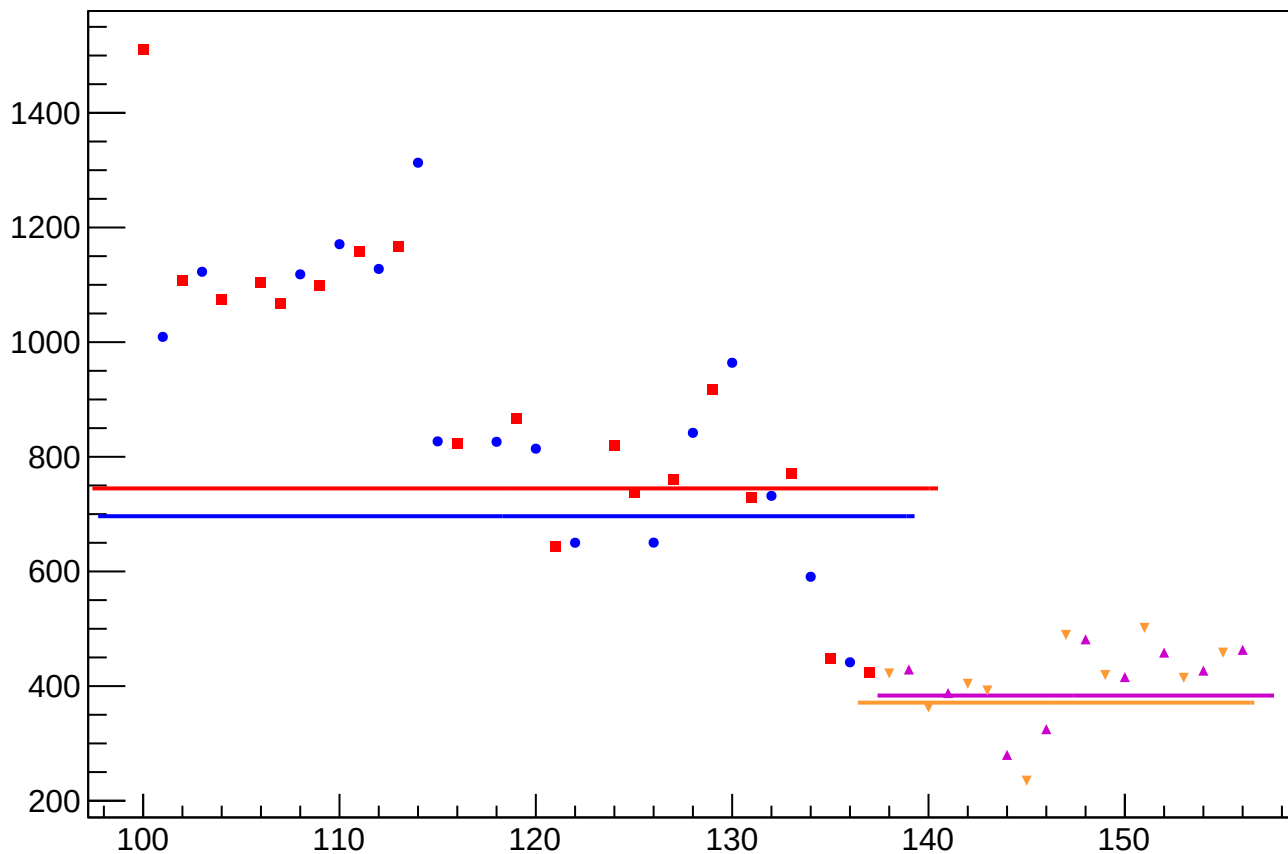
Right: 284.667 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 248.161 $\pm$ 125.081 χ^2 /NDF: 31.2/24

Out: 158.808 $\pm$ 123.487 χ^2 /NDF: 33.8/28

All: 202.912 $\pm$ 87.877 χ^2 /NDF: 65.2/53

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: 371.203+/-0.097 χ^2/NDF : 880637.3/9

Right Out: 744.874+/-0.203 χ^2/NDF : 1498349.6/18

Left In: 383.550+/-0.099 χ^2/NDF : 496804.7/8

Left: 377.209+/-0.069 χ^2/NDF : 1385364.3/18

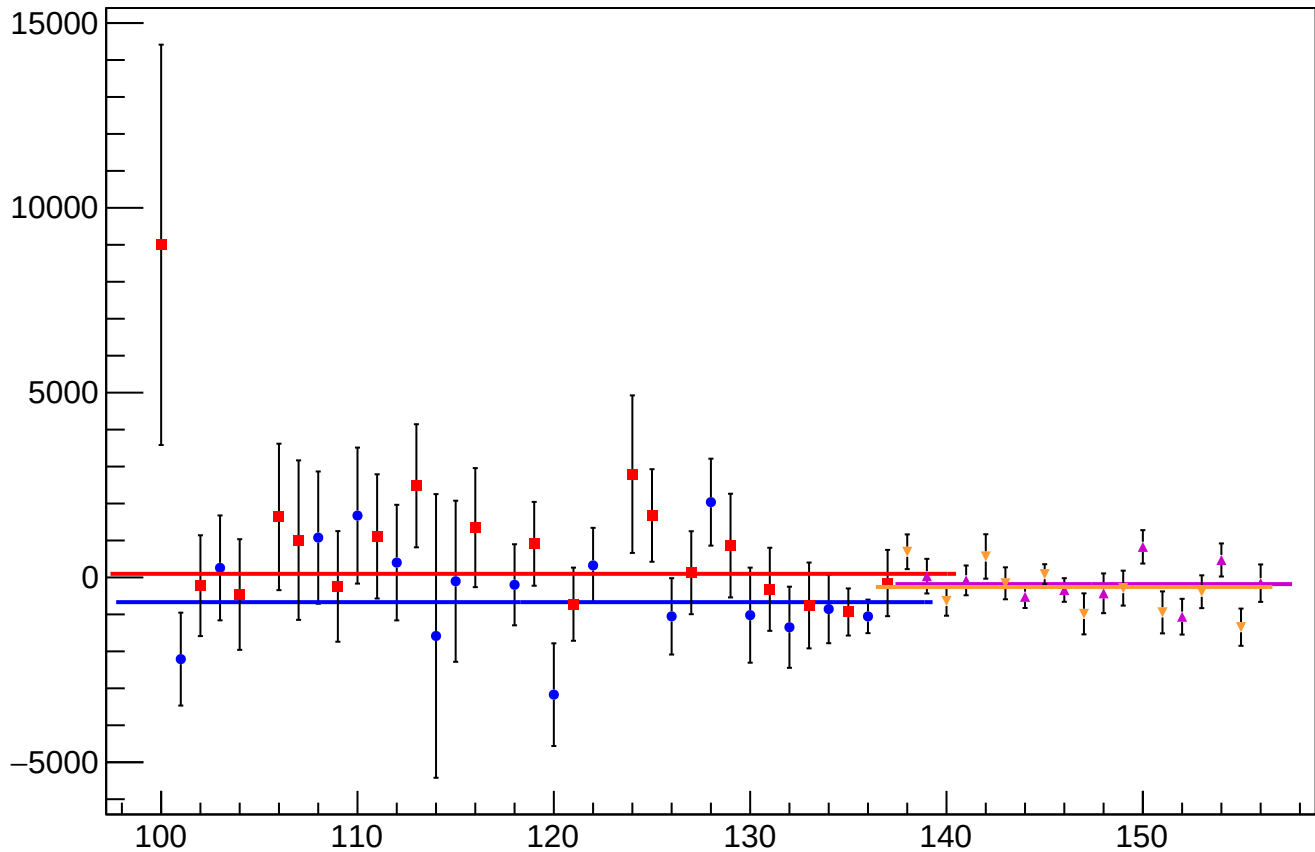
Right: 719.511+/-0.140 χ^2/NDF : 3043716.8/34

In: 448.748+/-0.088 χ^2/NDF : 4076089.6/24

Out: 440.464+/-0.087 χ^2/NDF : 5144208.0/28

All: 444.553+/-0.062 χ^2/NDF : 9224740.2/53

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -668.503 ± 268.452 χ^2/NDF : 16.1/15

Left Out: -258.022 ± 137.720 χ^2/NDF : 16.6/9

Right Out: 98.003 ± 285.882 χ^2/NDF : 14.8/18

Left In: -180.280 ± 137.511 χ^2/NDF : 12.4/8

Left: -219.092 ± 97.309 χ^2/NDF : 29.2/18

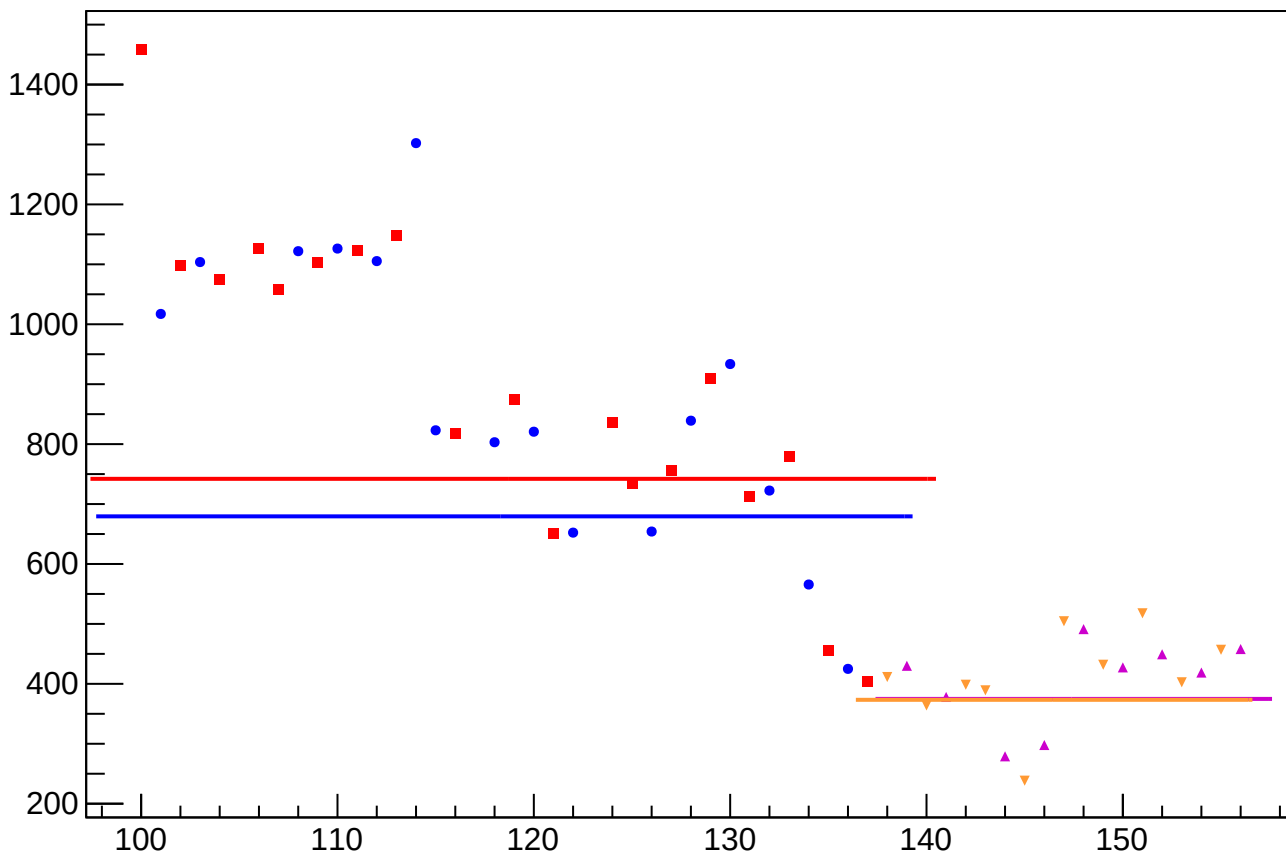
Right: -309.326 ± 195.696 χ^2/NDF : 34.8/34

In: -281.756 ± 122.388 χ^2/NDF : 31.2/24

Out: -190.962 ± 124.074 χ^2/NDF : 32.7/28

All: -236.980 ± 87.131 χ^2/NDF : 64.1/53

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 679.469+/-0.190 χ^2/NDF : 1600922.1/15

Left Out: 373.341+/-0.097 χ^2/NDF : 862433.2/9

Right Out: 742.081+/-0.202 χ^2/NDF : 1504391.2/18

Left In: 374.862+/-0.097 χ^2/NDF : 584820.4/8

Left: 374.103+/-0.069 χ^2/NDF : 1447375.7/18

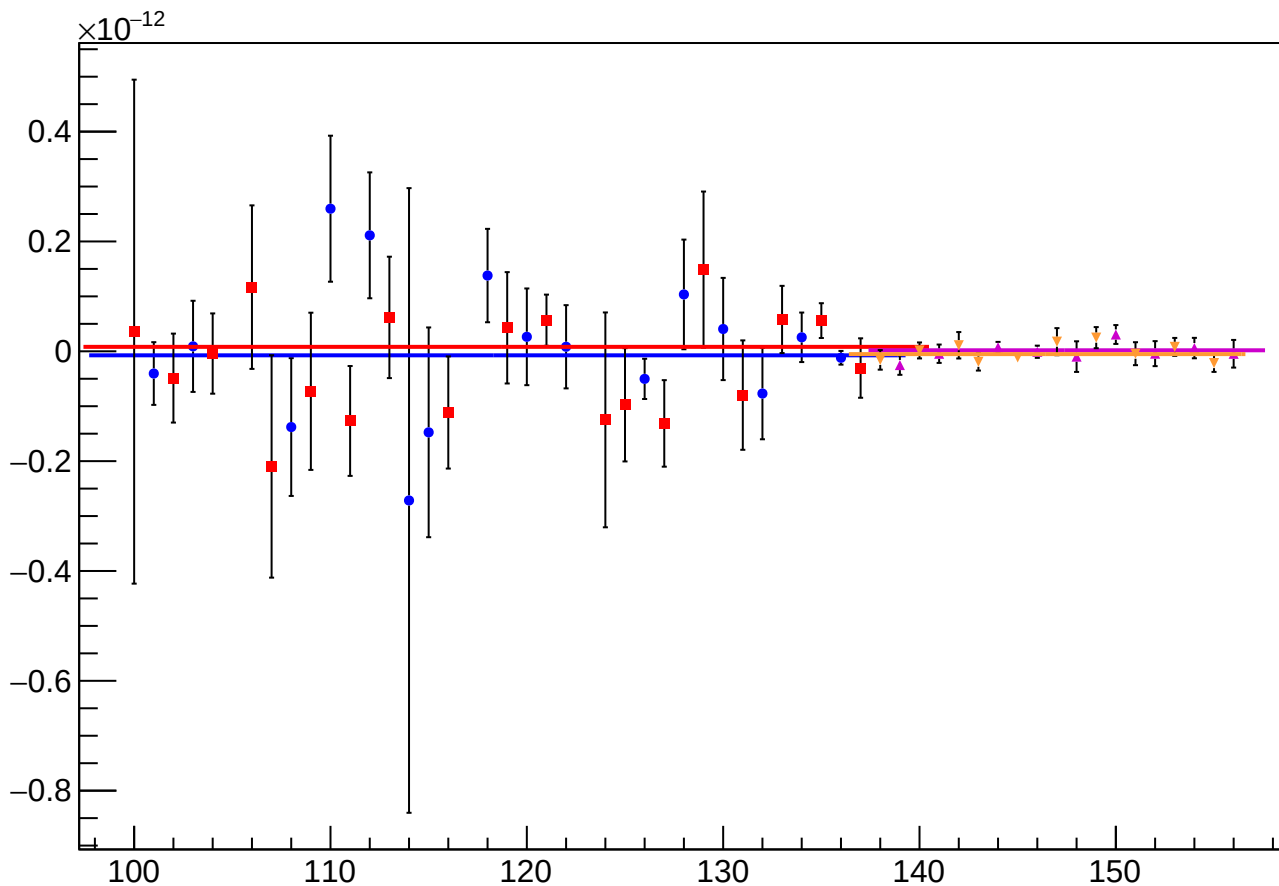
Right: 708.808+/-0.138 χ^2/NDF : 3156293.3/34

In: 438.174+/-0.087 χ^2/NDF : 4225516.2/24

Out: 442.797+/-0.088 χ^2/NDF : 5067423.7/28

All: 440.454+/-0.062 χ^2/NDF : 9294347.0/53

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 : 7.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 17.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.9/8

Left: -0.000+/-0.000 χ^2/NDF : 14.1/18

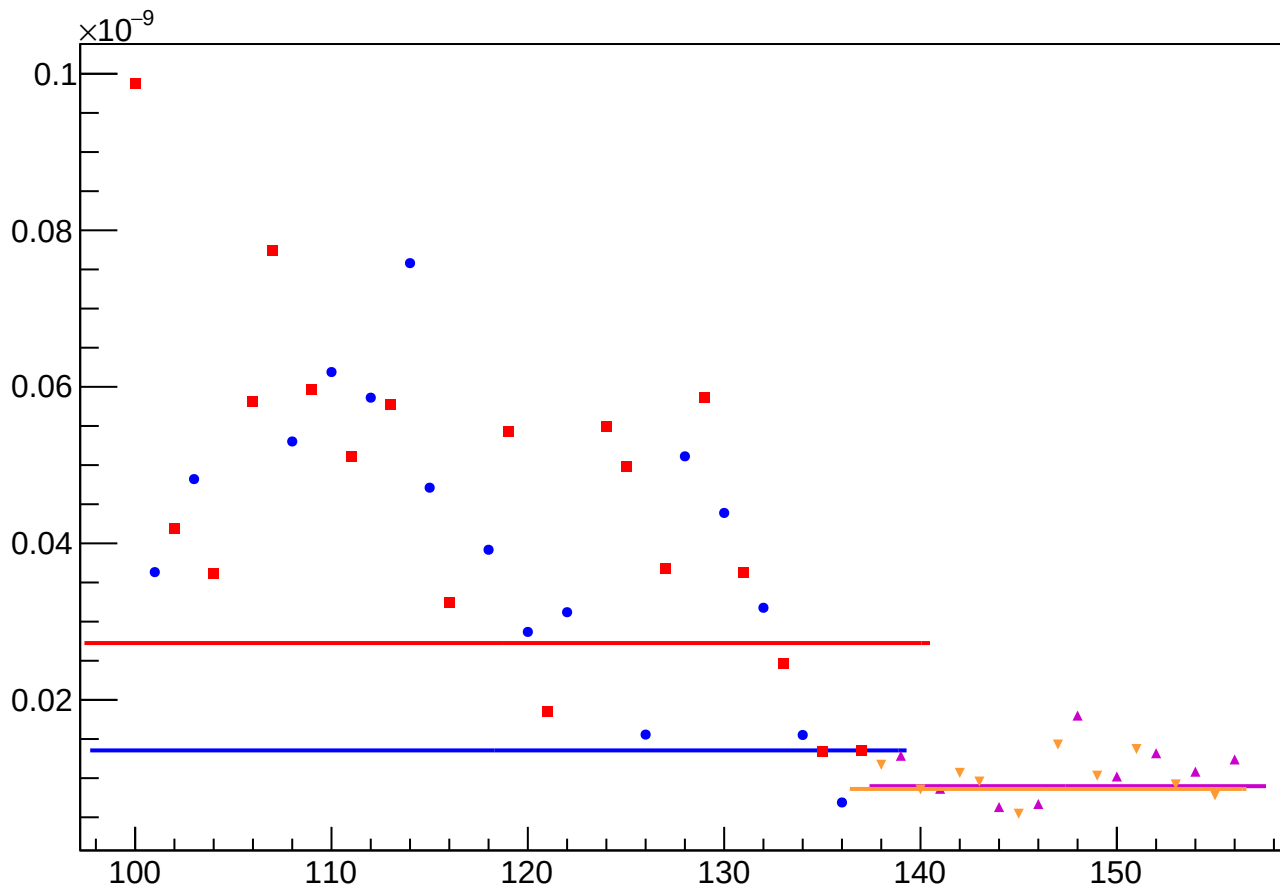
Right: -0.000+/-0.000 χ^2/NDF : 34.8/34

In: -0.000+/-0.000 χ^2/NDF : 23.8/24

Out: -0.000+/-0.000 χ^2/NDF : 24.8/28

All: -0.000+/-0.000 χ^2/NDF : 48.9/53

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3045220.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 589196.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1735739.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 669870.9/8

Left: 0.000+/-0.000 χ^2/NDF : 1263843.1/18

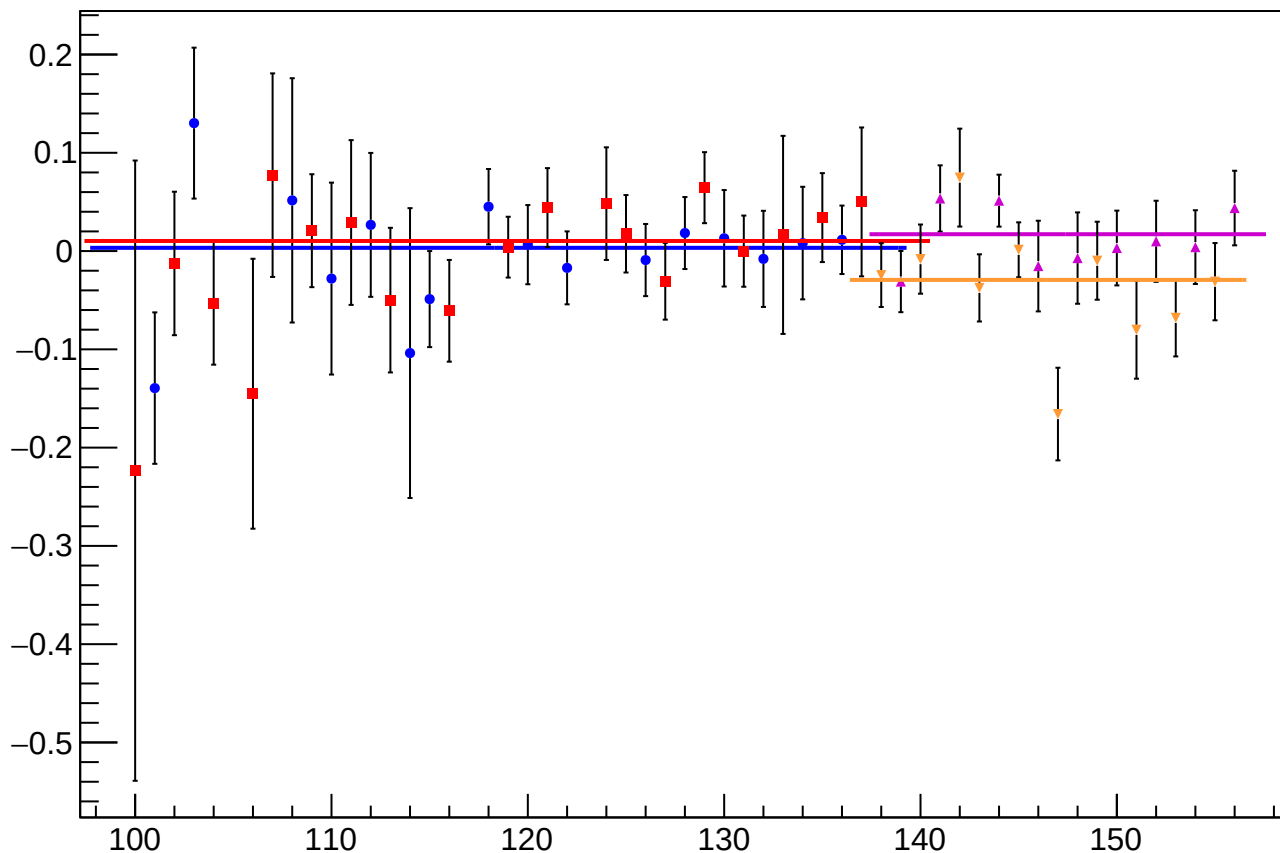
Right: 0.000+/-0.000 χ^2/NDF : 5700569.4/34

In: 0.000+/-0.000 χ^2/NDF : 4019877.2/24

Out: 0.000+/-0.000 χ^2/NDF : 4466630.2/28

All: 0.000+/-0.000 χ^2/NDF : 8487324.2/53

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.012 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -0.029 ± 0.012 $\chi^2/\text{NDF}: 16.6/9$

Right Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/18$

Left In: 0.017 ± 0.012 $\chi^2/\text{NDF}: 6.8/8$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 31.0/18$

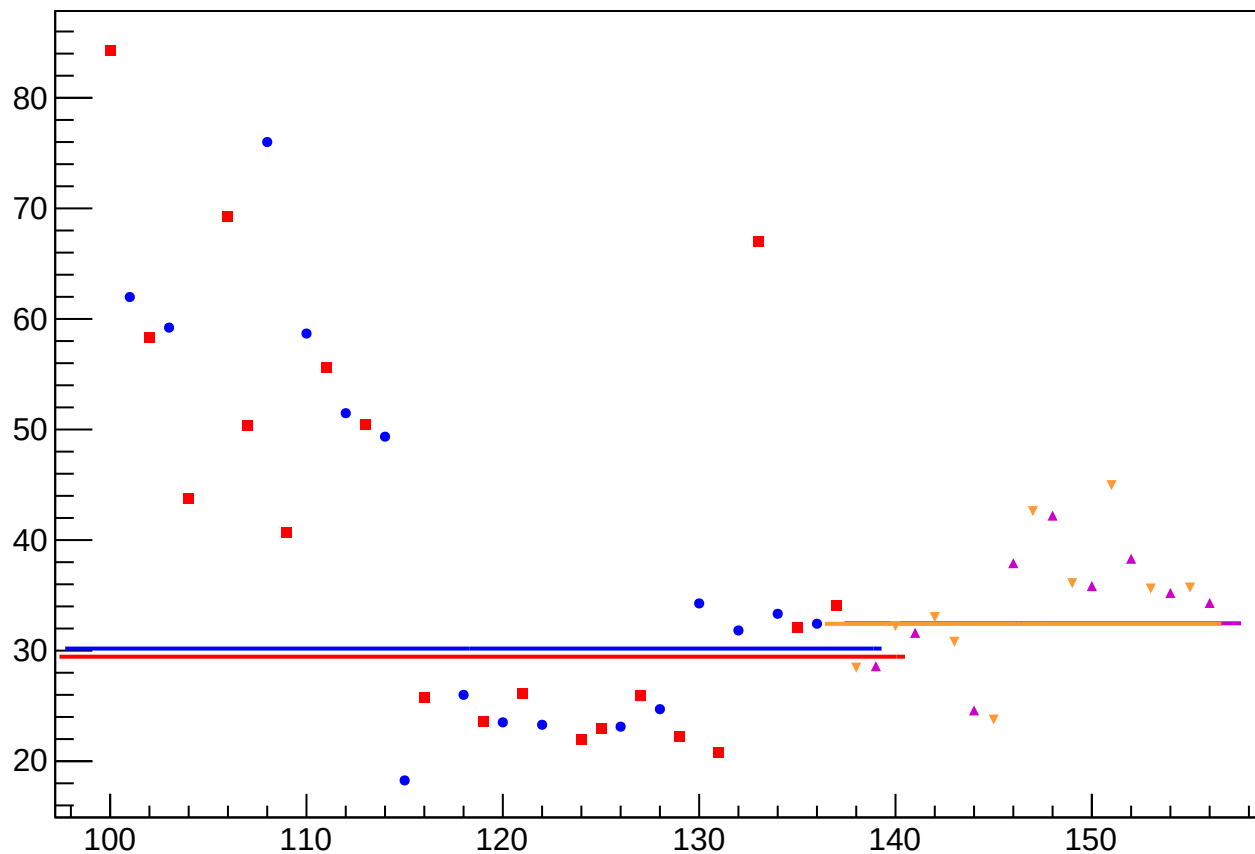
Right: 0.007 ± 0.009 $\chi^2/\text{NDF}: 21.5/34$

In: 0.010 ± 0.009 $\chi^2/\text{NDF}: 17.5/24$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 33.5/28$

All: 0.000 ± 0.006 $\chi^2/\text{NDF}: 53.7/53$

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: 32.426+/-0.008 χ^2/NDF : 491598.4/9

Right Out: 29.451+/-0.008 χ^2/NDF : 1848636.5/18

Left In: 32.476+/-0.008 χ^2/NDF : 396806.8/8

Left: 32.451+/-0.006 χ^2/NDF : 888422.6/18

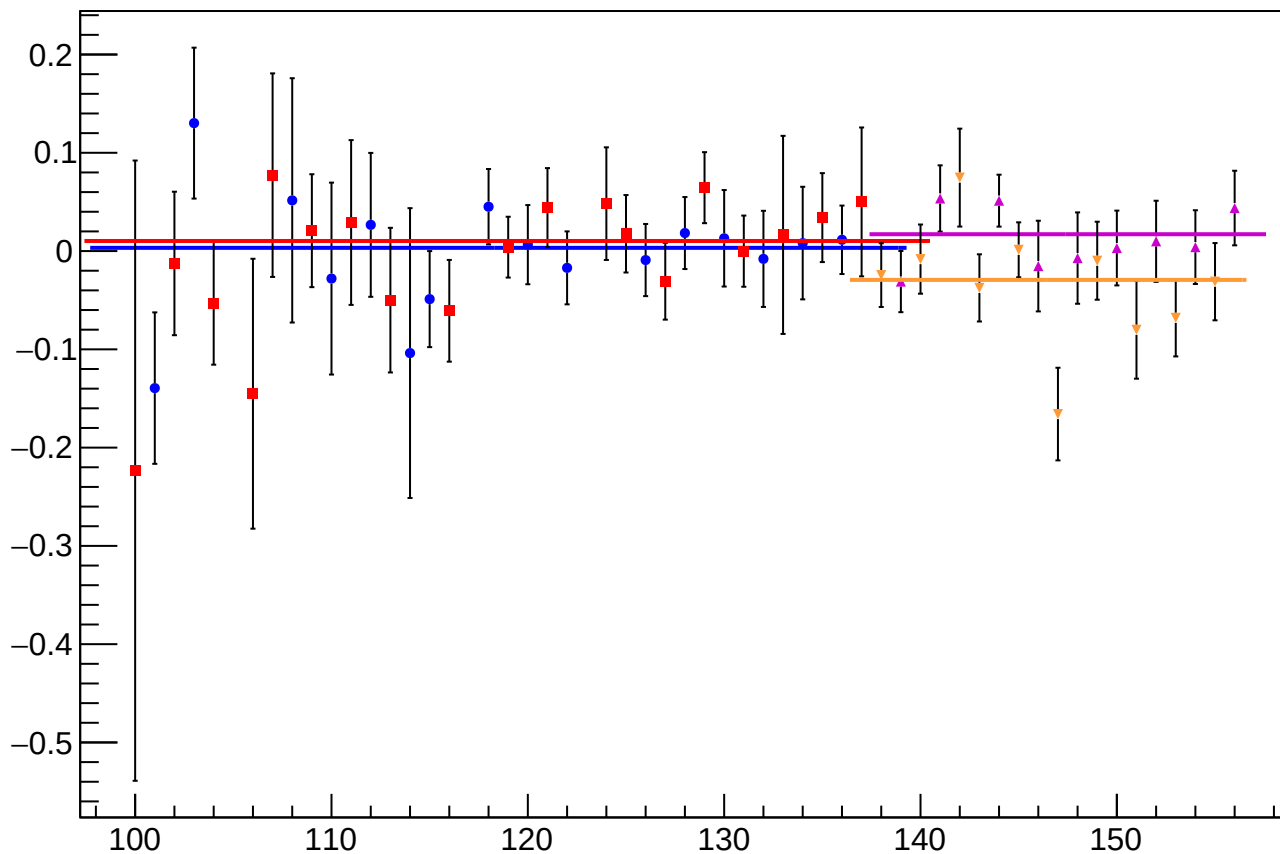
Right: 29.805+/-0.006 χ^2/NDF : 3539732.7/34

In: 31.359+/-0.006 χ^2/NDF : 2119756.9/24

Out: 30.930+/-0.006 χ^2/NDF : 2403251.5/28

All: 31.139+/-0.004 χ^2/NDF : 4525563.3/53

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.012 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -0.029 ± 0.012 $\chi^2/\text{NDF}: 16.6/9$

Right Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/18$

Left In: 0.017 ± 0.012 $\chi^2/\text{NDF}: 6.8/8$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 31.0/18$

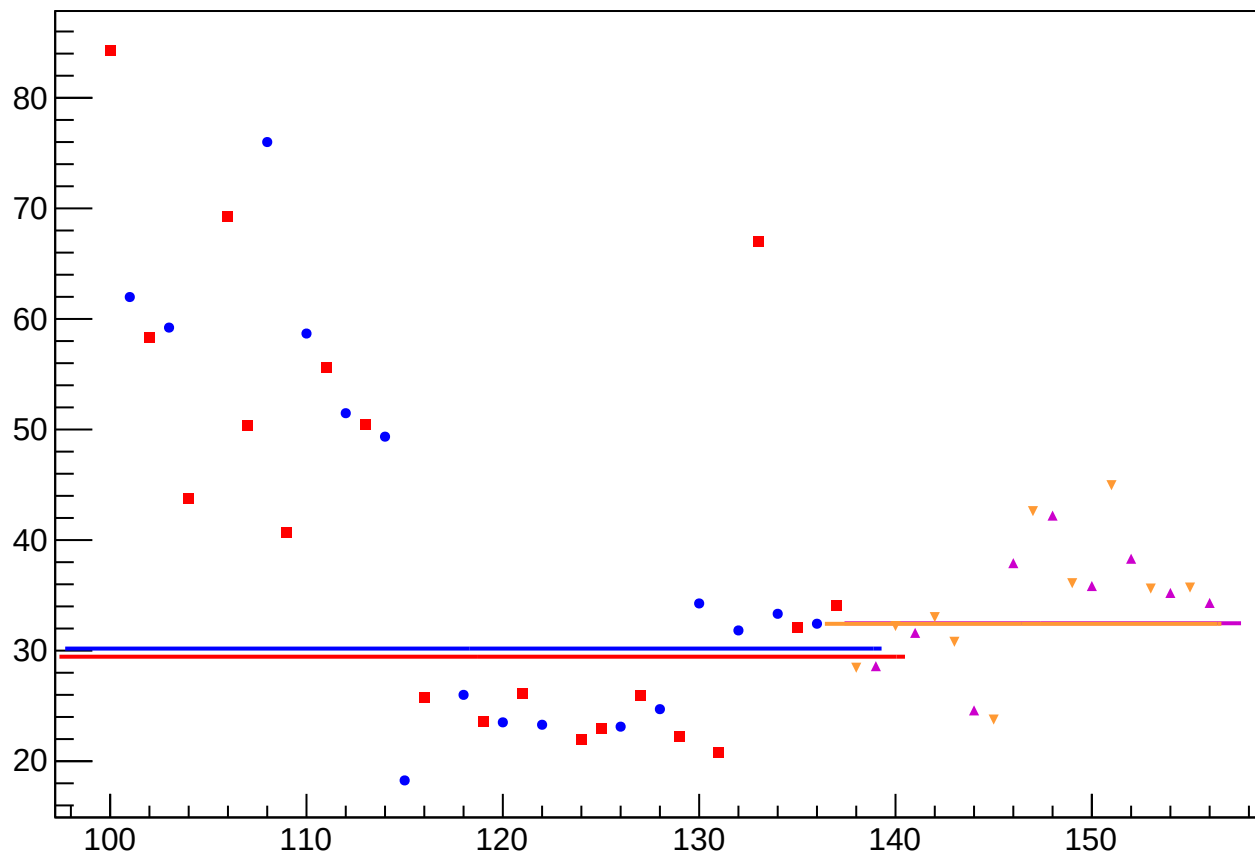
Right: 0.007 ± 0.009 $\chi^2/\text{NDF}: 21.5/34$

In: 0.010 ± 0.009 $\chi^2/\text{NDF}: 17.5/24$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 33.5/28$

All: 0.000 ± 0.006 $\chi^2/\text{NDF}: 53.7/53$

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: 32.426+/-0.008 χ^2/NDF : 491598.4/9

Right Out: 29.451+/-0.008 χ^2/NDF : 1848636.5/18

Left In: 32.476+/-0.008 χ^2/NDF : 396806.8/8

Left: 32.451+/-0.006 χ^2/NDF : 888422.6/18

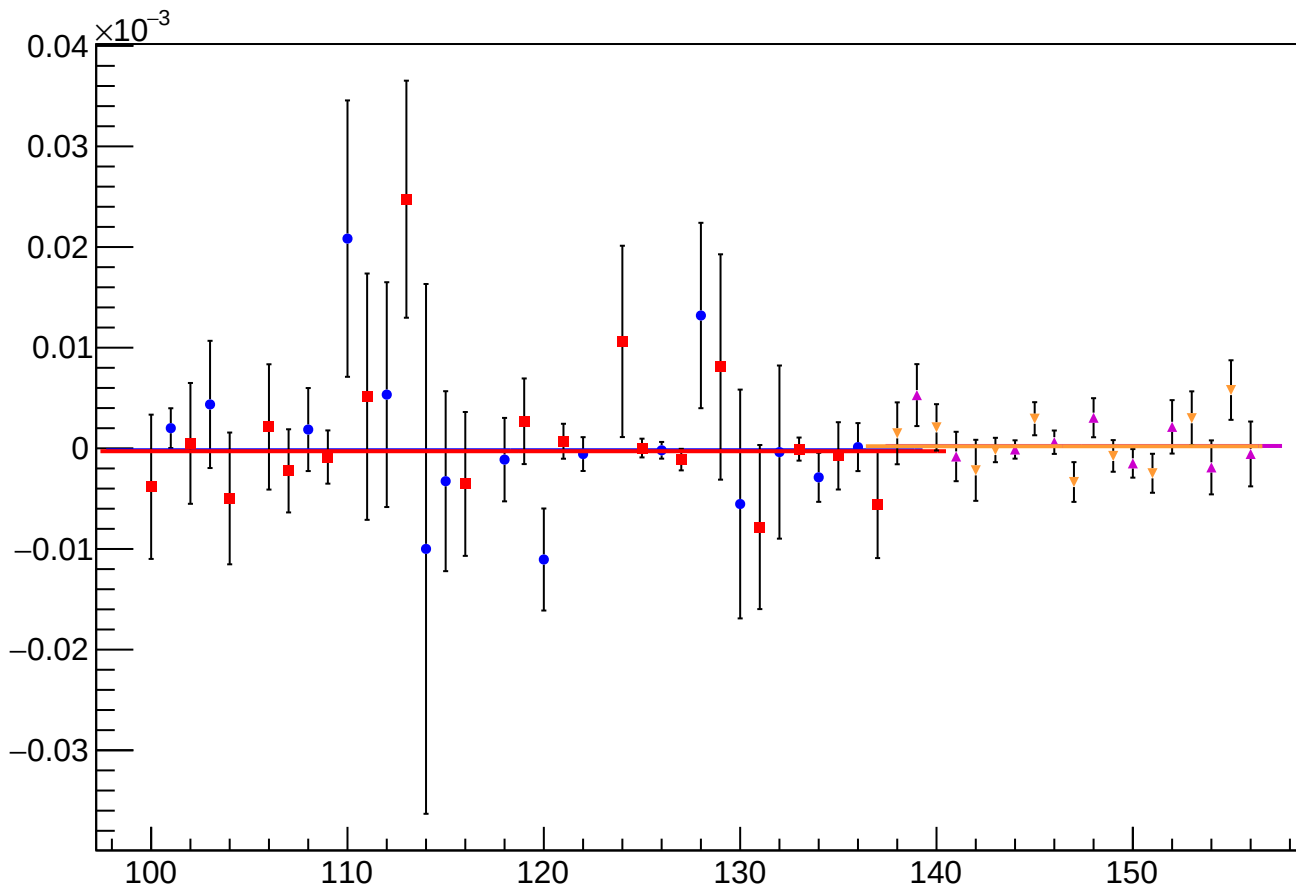
Right: 29.805+/-0.006 χ^2/NDF : 3539732.7/34

In: 31.359+/-0.006 χ^2/NDF : 2119756.9/24

Out: 30.930+/-0.006 χ^2/NDF : 2403251.5/28

All: 31.139+/-0.004 χ^2/NDF : 4525563.3/53

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 : 14.5/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 11.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 7.9/8

Left: 0.000 ± 0.000 χ^2/NDF : 22.4/18

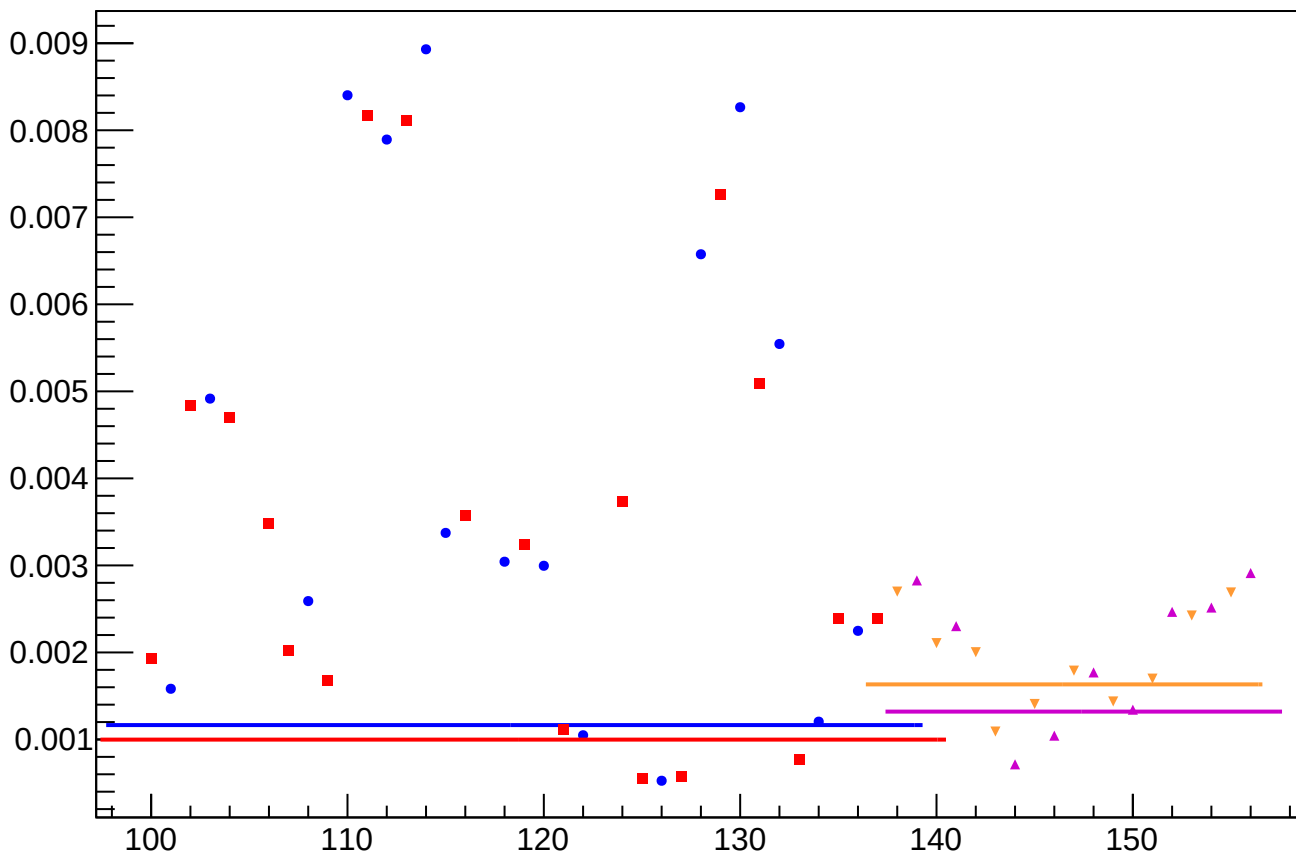
Right: -0.000 ± 0.000 χ^2/NDF : 24.6/34

In: 0.000 ± 0.000 χ^2/NDF : 21.3/24

Out: -0.000 ± 0.000 χ^2/NDF : 26.3/28

All: -0.000 ± 0.000 χ^2/NDF : 47.6/53

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 :1269234.6/9

Right Out: 0.001+/-0.000 χ^2/NDF : 6937197.5/18

Left In: 0.001+/-0.000 χ^2/NDF :3166208.1/8

Left: 0.001+/-0.000 χ^2/NDF : 4724392.9/18

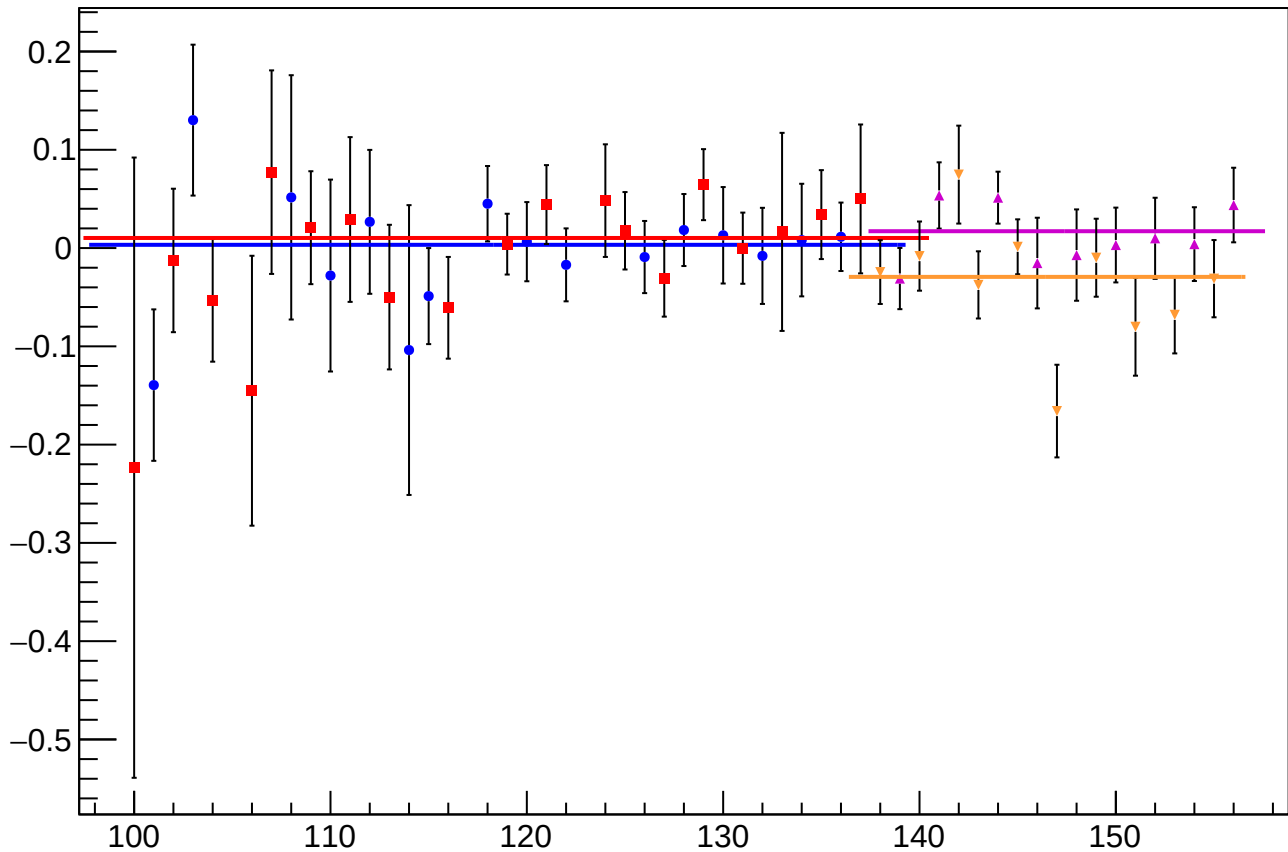
Right: 0.001+/-0.000 χ^2/NDF : 13904727.1/34

In: 0.001+/-0.000 χ^2/NDF :10118945.9/24

Out: 0.001+/-0.000 χ^2/NDF :9441322.3/28

All: 0.001+/-0.000 χ^2/NDF : 19561146.4/53

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.012 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -0.029 ± 0.012 $\chi^2/\text{NDF}: 16.6/9$

Right Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/18$

Left In: 0.017 ± 0.012 $\chi^2/\text{NDF}: 6.8/8$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 31.0/18$

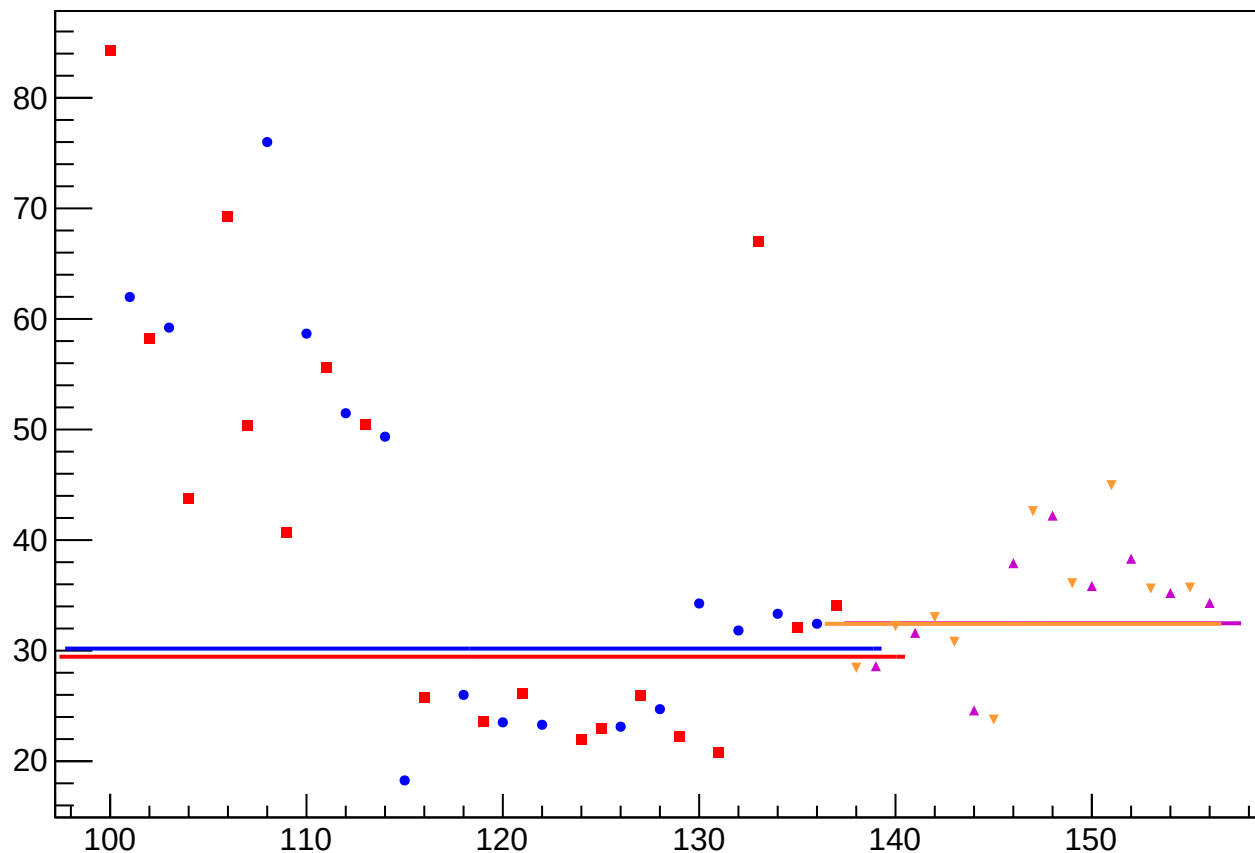
Right: 0.007 ± 0.009 $\chi^2/\text{NDF}: 21.5/34$

In: 0.010 ± 0.009 $\chi^2/\text{NDF}: 17.5/24$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 33.5/28$

All: 0.000 ± 0.006 $\chi^2/\text{NDF}: 53.7/53$

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687188.2/15

Left Out: 32.426 $\pm$ 0.008 χ^2 /NDF: 491562.9/9

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848632.6/18

Left In: 32.476 $\pm$ 0.008 χ^2 /NDF: 396791.4/8

Left: 32.451 $\pm$ 0.006 χ^2 /NDF: 888371.7/18

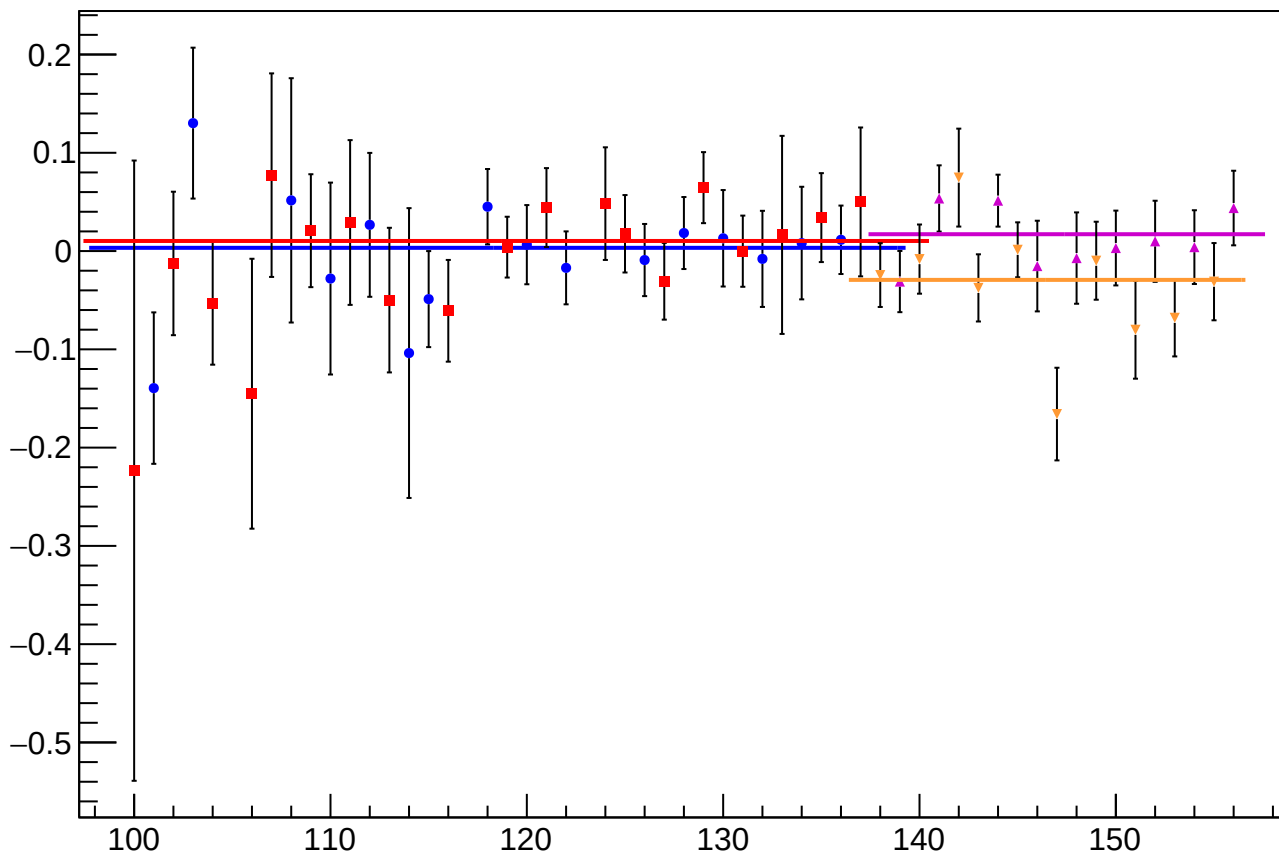
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539550.0/34

In: 31.359 $\pm$ 0.006 χ^2 /NDF: 2119564.7/24

Out: 30.930 $\pm$ 0.006 χ^2 /NDF: 2403253.5/28

All: 31.140 $\pm$ 0.004 χ^2 /NDF: 4525376.9/53

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.012 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -0.029 ± 0.012 $\chi^2/\text{NDF}: 16.6/9$

Right Out: 0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/18$

Left In: 0.017 ± 0.012 $\chi^2/\text{NDF}: 6.8/8$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 31.0/18$

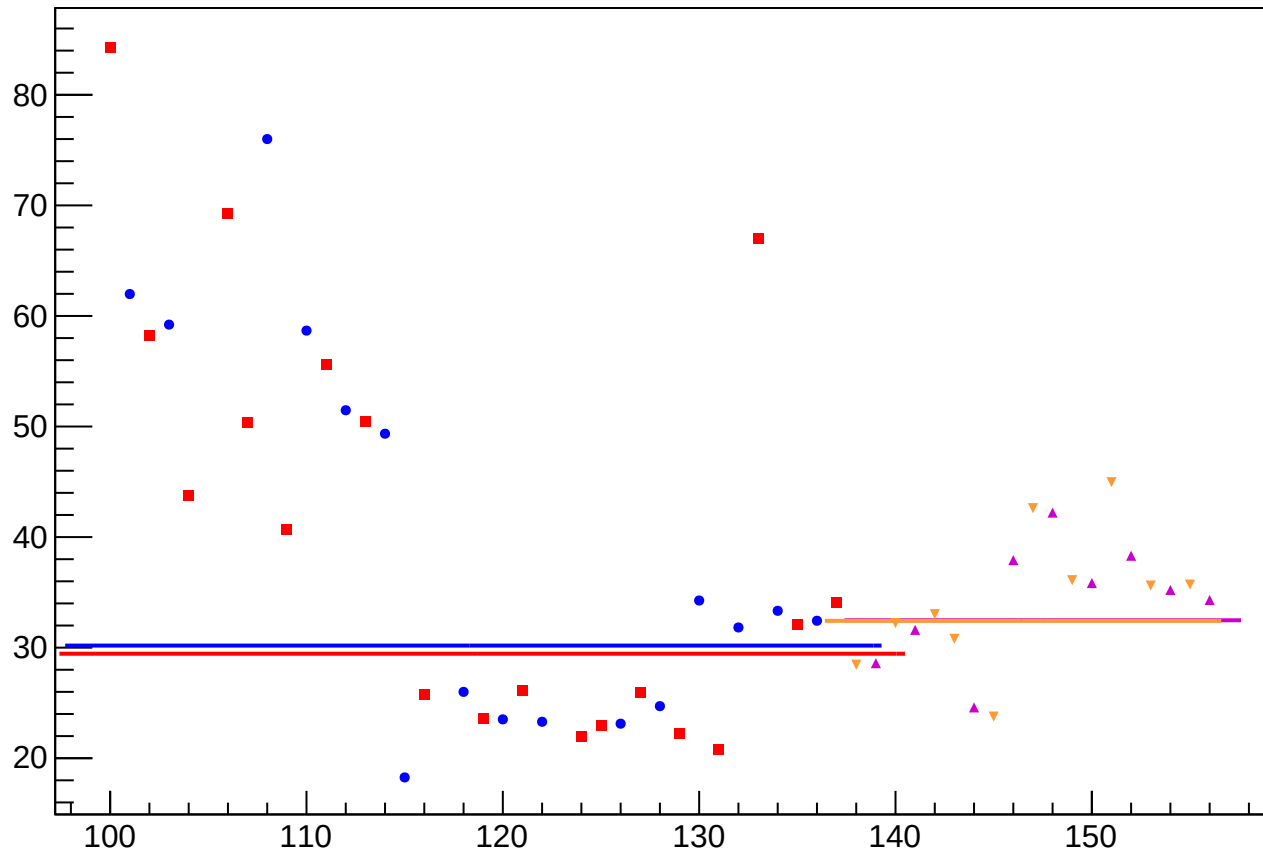
Right: 0.007 ± 0.009 $\chi^2/\text{NDF}: 21.5/34$

In: 0.010 ± 0.009 $\chi^2/\text{NDF}: 17.5/24$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 33.5/28$

All: 0.000 ± 0.006 $\chi^2/\text{NDF}: 53.7/53$

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: 32.426 $\pm$ 0.008 χ^2 /NDF: 491562.9/9

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848632.6/18

Left In: 32.476 $\pm$ 0.008 χ^2 /NDF: 396791.4/8

Left: 32.451 $\pm$ 0.006 χ^2 /NDF: 888371.7/18

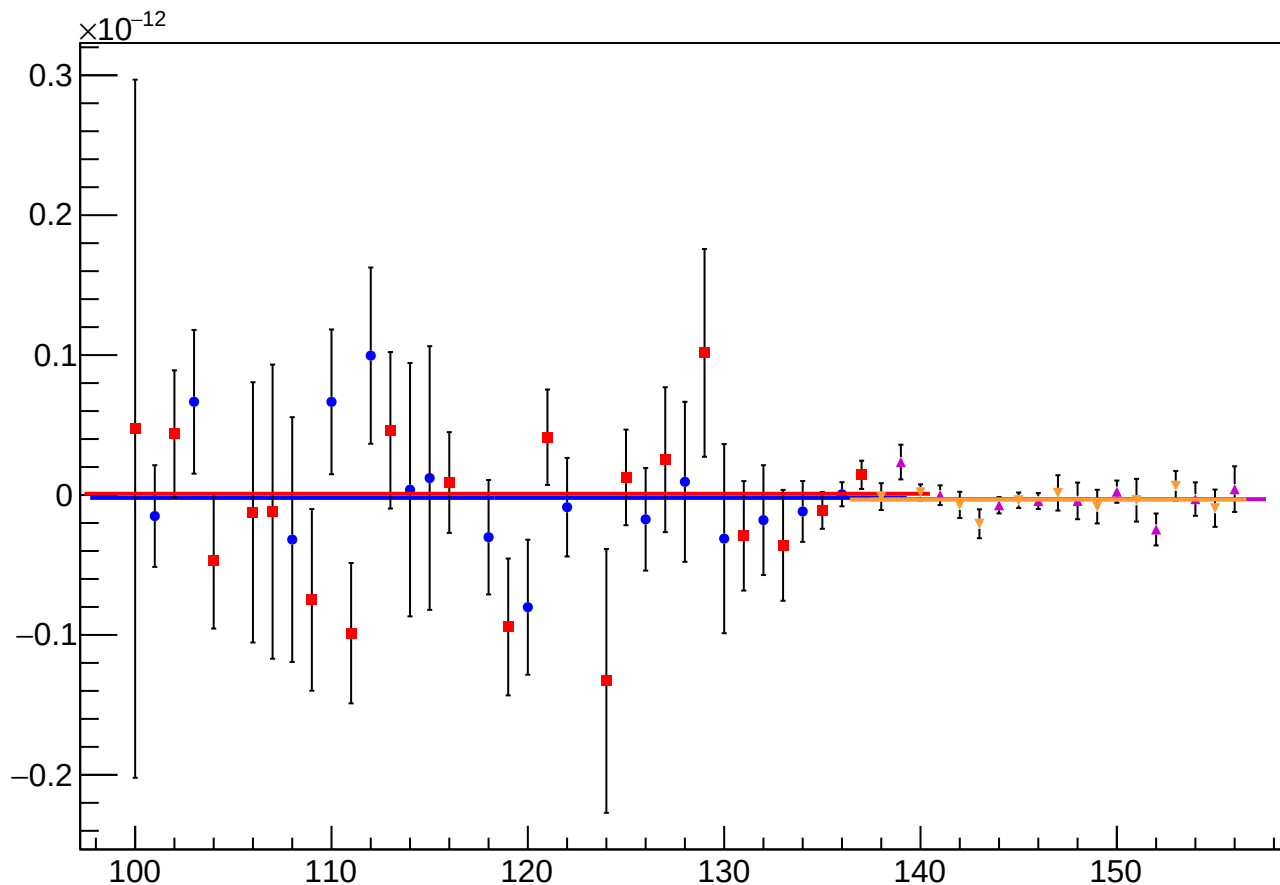
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539550.0/34

In: 31.359 $\pm$ 0.006 χ^2 /NDF: 2119564.7/24

Out: 30.930 $\pm$ 0.006 χ^2 /NDF: 2403253.5/28

All: 31.140 $\pm$ 0.004 χ^2 /NDF: 4525376.9/53

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 : 5.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.6/8

Left: -0.000+/-0.000 χ^2/NDF : 14.9/18

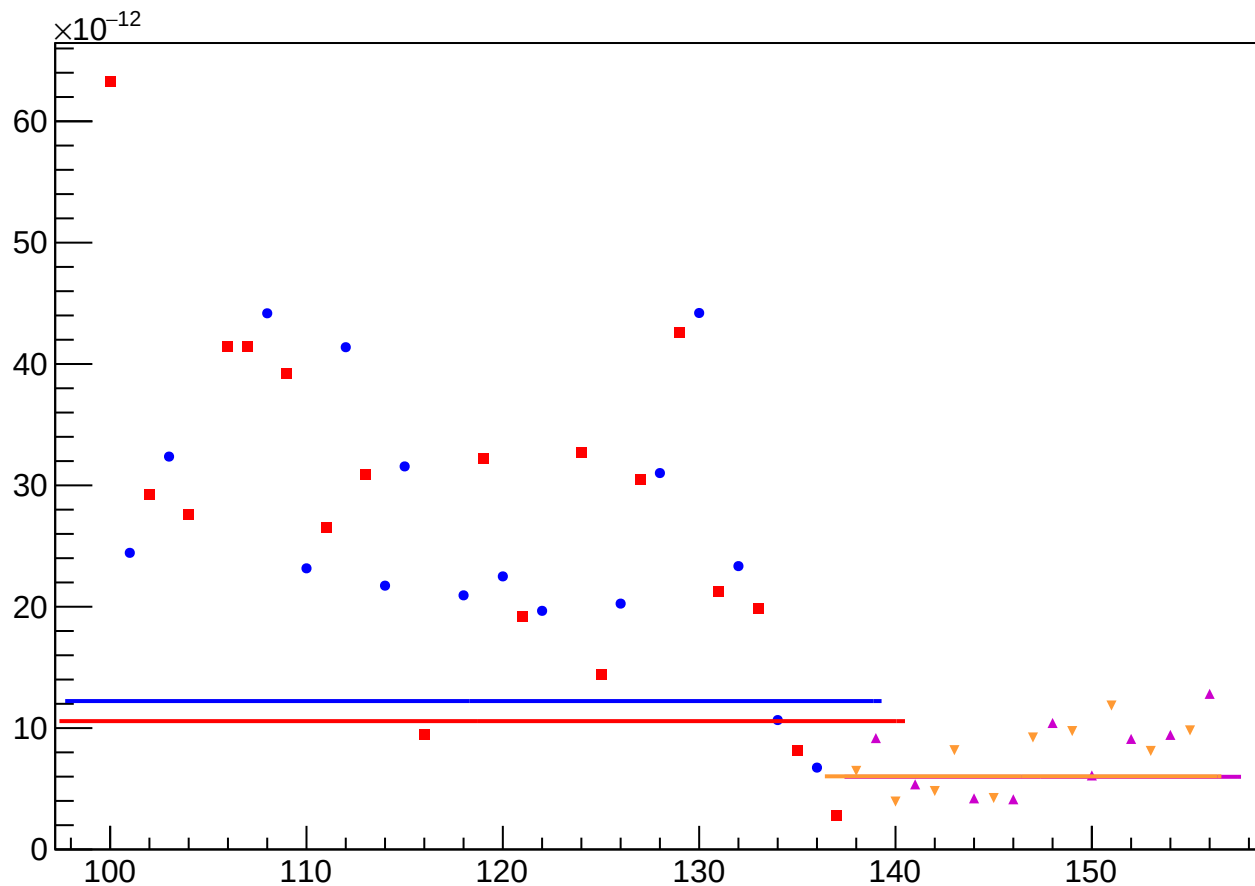
Right: -0.000+/-0.000 χ^2/NDF : 31.9/34

In: -0.000+/-0.000 χ^2/NDF : 20.0/24

Out: -0.000+/-0.000 χ^2/NDF : 27.0/28

All: -0.000+/-0.000 χ^2/NDF : 47.0/53

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 :1453324.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4770079.9/18

Left In: 0.000+/-0.000 χ^2/NDF :1443070.4/8

Left: 0.000+/-0.000 χ^2/NDF : 2896588.2/18

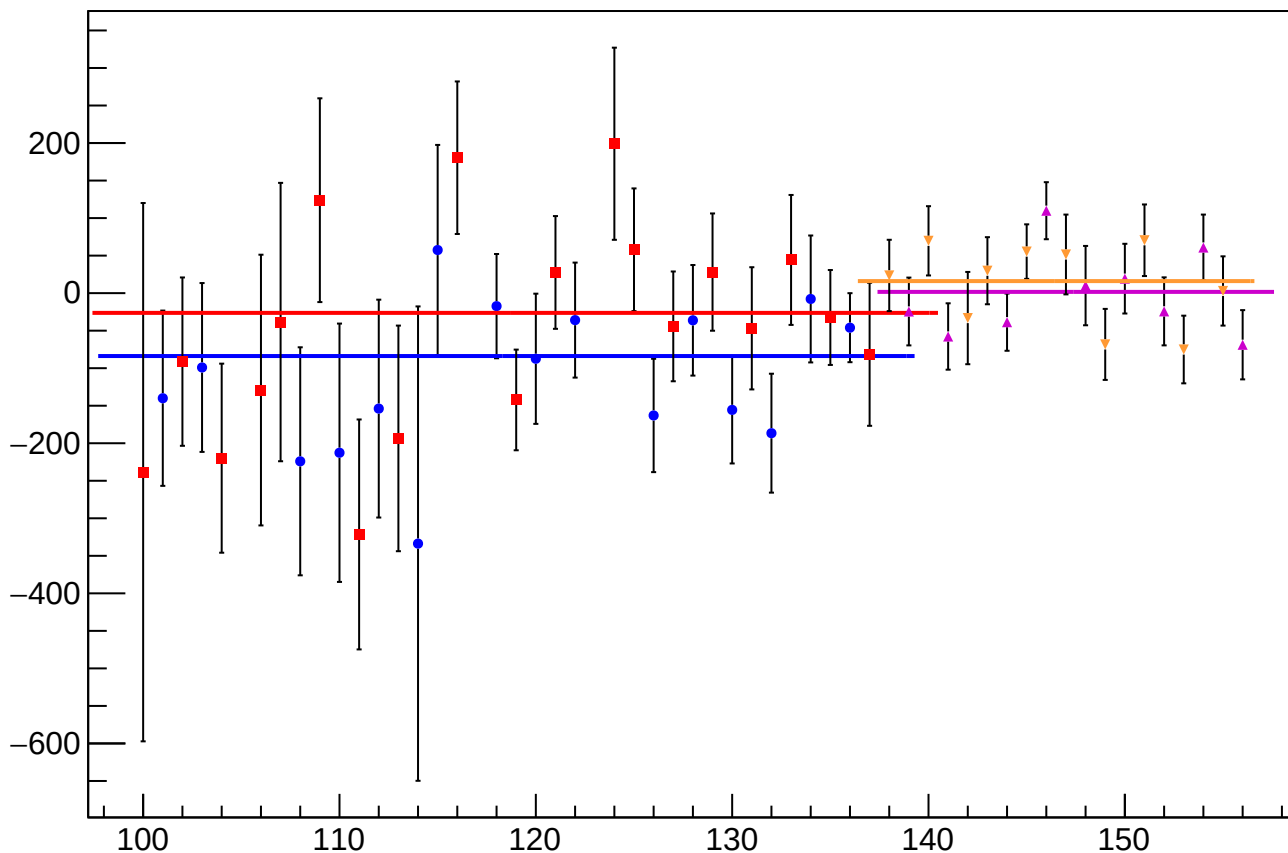
Right: 0.000+/-0.000 χ^2/NDF : 8268115.2/34

In: 0.000+/-0.000 χ^2/NDF :6313565.3/24

Out: 0.000+/-0.000 χ^2/NDF :7015755.1/28

All: 0.000+/-0.000 χ^2/NDF : 13334147.7/53

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.808 ± 21.434 $\chi^2/\text{NDF}: 10.5/15$

Left Out: 16.043 ± 14.684 $\chi^2/\text{NDF}: 12.4/9$

Right Out: -26.301 ± 22.067 $\chi^2/\text{NDF}: 23.0/18$

Left In: 1.674 ± 14.619 $\chi^2/\text{NDF}: 16.0/8$

Left: 8.826 ± 10.360 $\chi^2/\text{NDF}: 28.9/18$

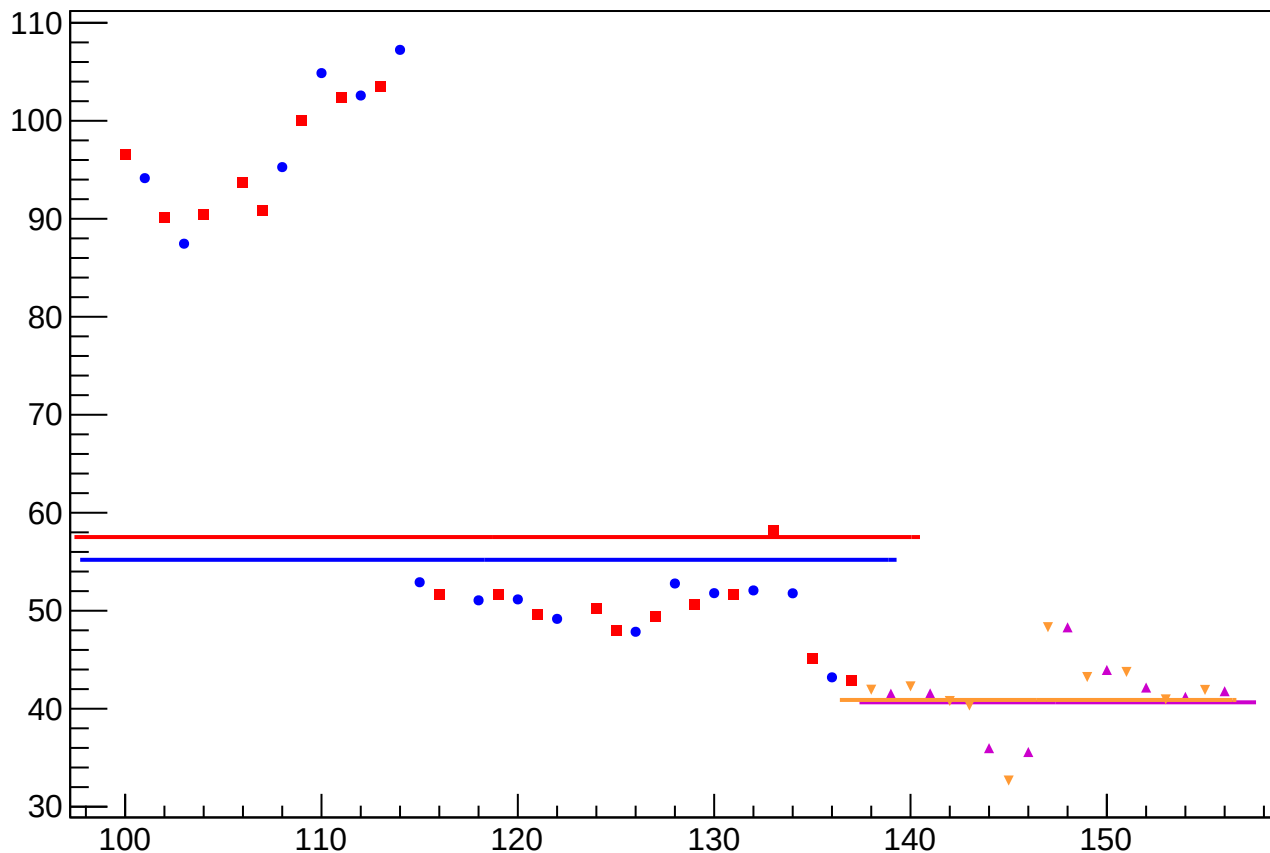
Right: -55.890 ± 15.375 $\chi^2/\text{NDF}: 37.0/34$

In: -25.464 ± 12.077 $\chi^2/\text{NDF}: 37.4/24$

Out: 3.047 ± 12.225 $\chi^2/\text{NDF}: 37.9/28$

All: -11.382 ± 8.592 $\chi^2/\text{NDF}: 78.1/53$

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: 40.895+/-0.010 χ^2/NDF :157679.5/9

Right Out: 57.519+/-0.016 χ^2/NDF : 1281793.1/18

Left In: 40.653+/-0.010 χ^2/NDF :123141.3/8

Left: 40.774+/-0.007 χ^2/NDF : 281093.2/18

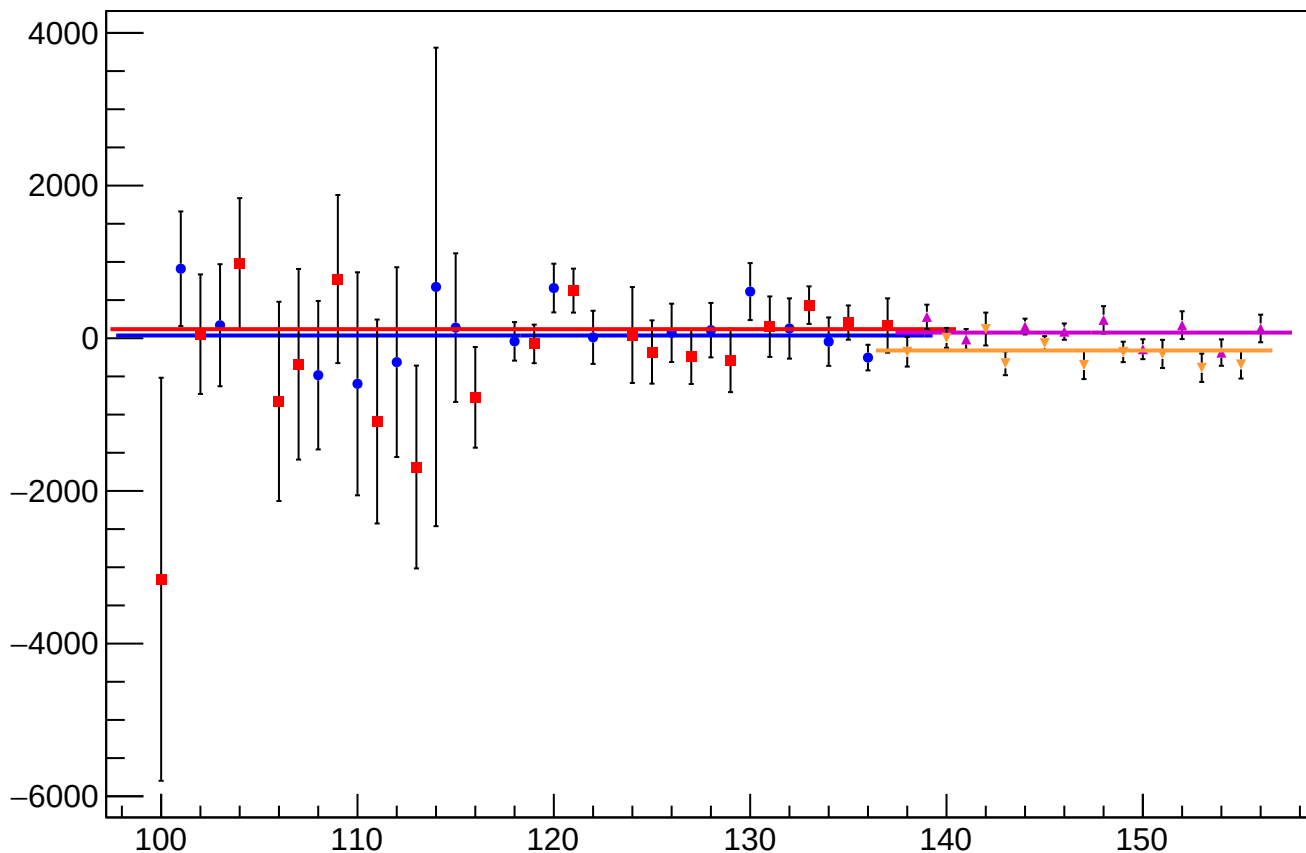
Right: 56.325+/-0.011 χ^2/NDF : 2445763.7/34

In: 45.271+/-0.009 χ^2/NDF :1904220.0/24

Out: 45.997+/-0.009 χ^2/NDF :2226157.0/28

All: 45.630+/-0.006 χ^2/NDF : 4133951.3/53

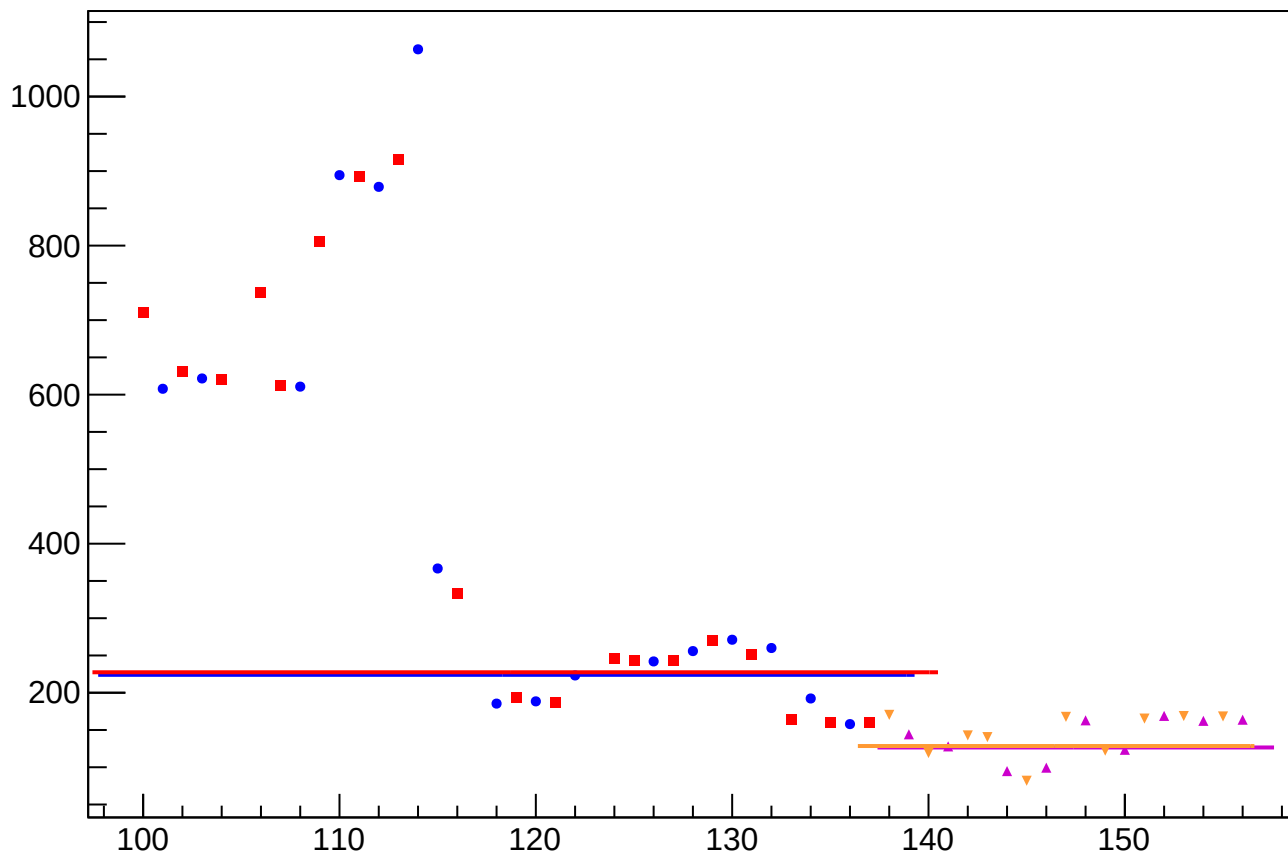
asym_sam_37_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 36.327 ± 93.563 $\chi^2/\text{NDF}: 11.4/15$
 Left Out: -159.968 ± 47.675 $\chi^2/\text{NDF}: 9.2/9$
 Right Out: 119.166 ± 95.833 $\chi^2/\text{NDF}: 16.0/18$
 Left In: 74.201 ± 46.739 $\chi^2/\text{NDF}: 9.0/8$

Left: -40.562 ± 33.375 $\chi^2/\text{NDF}: 30.5/18$
 Right: 76.754 ± 66.947 $\chi^2/\text{NDF}: 27.8/34$
 In: 66.637 ± 41.812 $\chi^2/\text{NDF}: 20.5/24$
 Out: -104.592 ± 42.685 $\chi^2/\text{NDF}: 32.0/28$
 All: -17.209 ± 29.869 $\chi^2/\text{NDF}: 60.7/53$

asym_sam_37_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 224.042+/-0.066 χ^2/NDF : 2968054.7/15

Left Out: 128.483+/-0.034 χ^2/NDF :1000301.5/9

Right Out: 227.451+/-0.068 χ^2/NDF : 3640634.3/18

Left In: 126.537+/-0.033 χ^2/NDF :702752.3/8

Left: 127.491+/-0.024 χ^2/NDF : 1704753.3/18

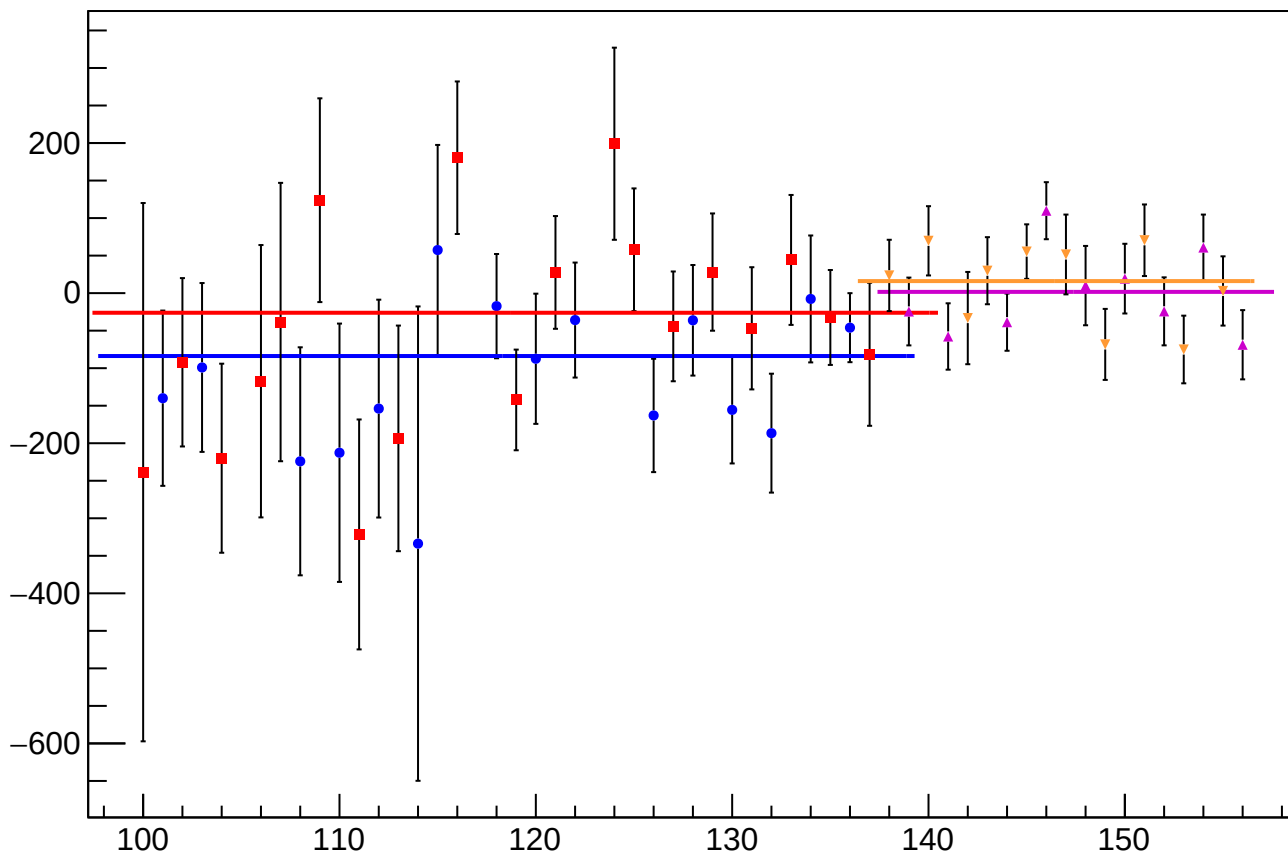
Right: 225.705+/-0.047 χ^2/NDF : 6609984.7/34

In: 146.010+/-0.030 χ^2/NDF :5409090.7/24

Out: 148.117+/-0.030 χ^2/NDF :6350740.1/28

All: 147.042+/-0.021 χ^2/NDF : 11762318.7/53

cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.805 ± 21.434 $\chi^2/\text{NDF}: 10.5/15$

Left Out: 16.043 ± 14.684 $\chi^2/\text{NDF}: 12.4/9$

Right Out: -26.142 ± 22.069 $\chi^2/\text{NDF}: 22.9/18$

Left In: 1.674 ± 14.619 $\chi^2/\text{NDF}: 16.0/8$

Left: 8.826 ± 10.360 $\chi^2/\text{NDF}: 28.9/18$

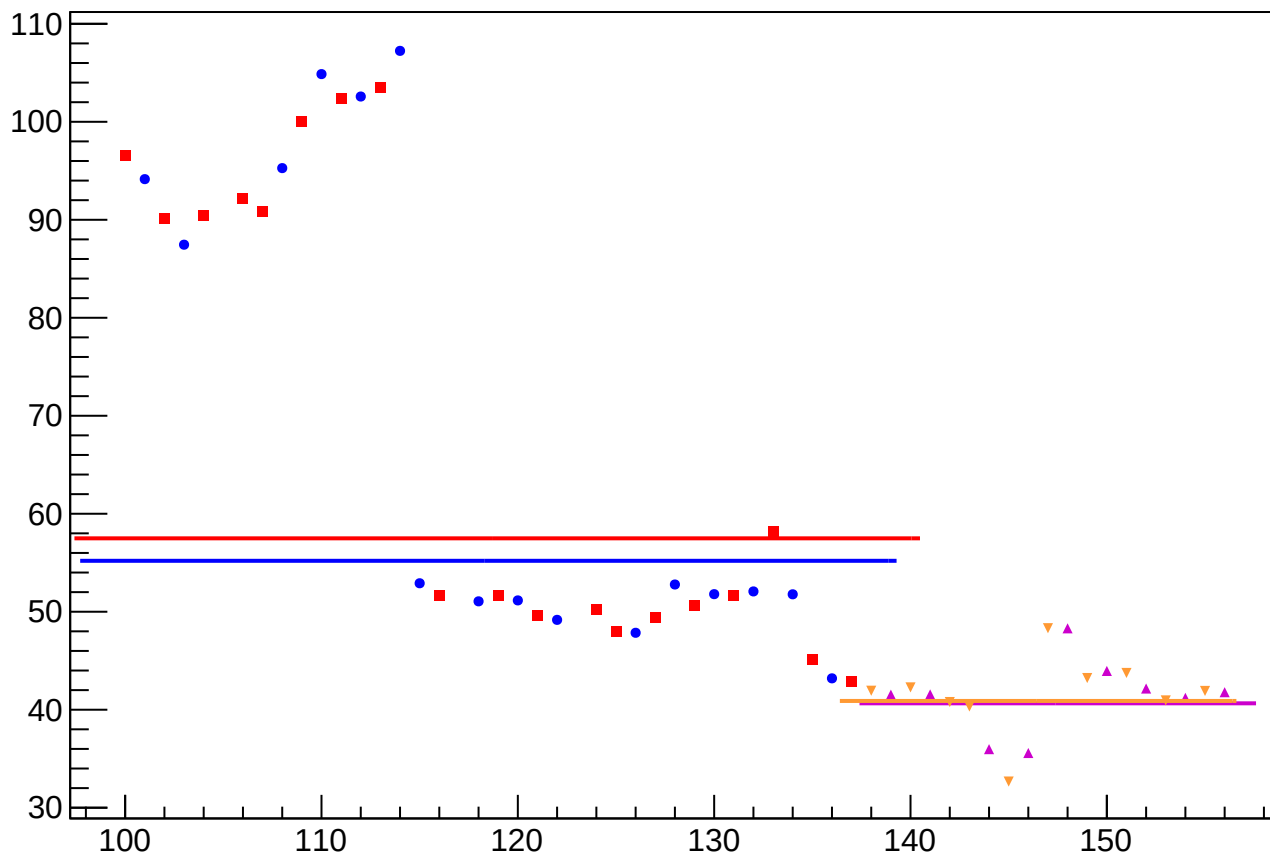
Right: -55.815 ± 15.376 $\chi^2/\text{NDF}: 37.0/34$

In: -25.464 ± 12.077 $\chi^2/\text{NDF}: 37.4/24$

Out: 3.097 ± 12.225 $\chi^2/\text{NDF}: 37.8/28$

All: -11.357 ± 8.592 $\chi^2/\text{NDF}: 78.0/53$

cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198 $\pm$ 0.015 χ^2/NDF : 1152581.3/15

Left Out: 40.895 $\pm$ 0.010 χ^2/NDF :157679.5/9

Right Out: 57.490 $\pm$ 0.016 χ^2/NDF : 1274387.3/18

Left In: 40.653 $\pm$ 0.010 χ^2/NDF :123141.3/8

Left: 40.774 $\pm$ 0.007 χ^2/NDF : 281093.2/18

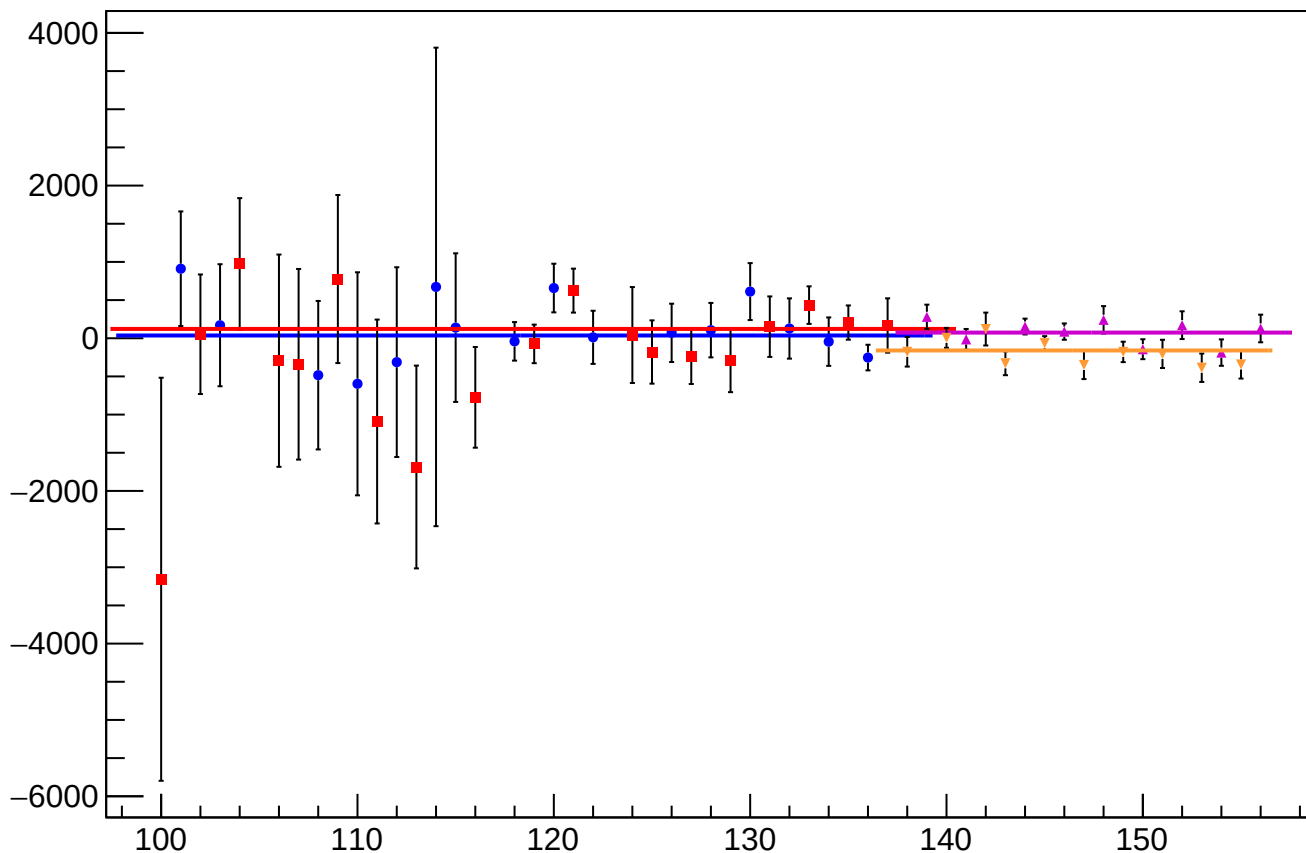
Right: 56.311 $\pm$ 0.011 χ^2/NDF : 2438075.6/34

In: 45.271 $\pm$ 0.009 χ^2/NDF :1904220.2/24

Out: 45.988 $\pm$ 0.009 χ^2/NDF :2215916.8/28

All: 45.625 $\pm$ 0.006 χ^2/NDF : 4123618.0/53

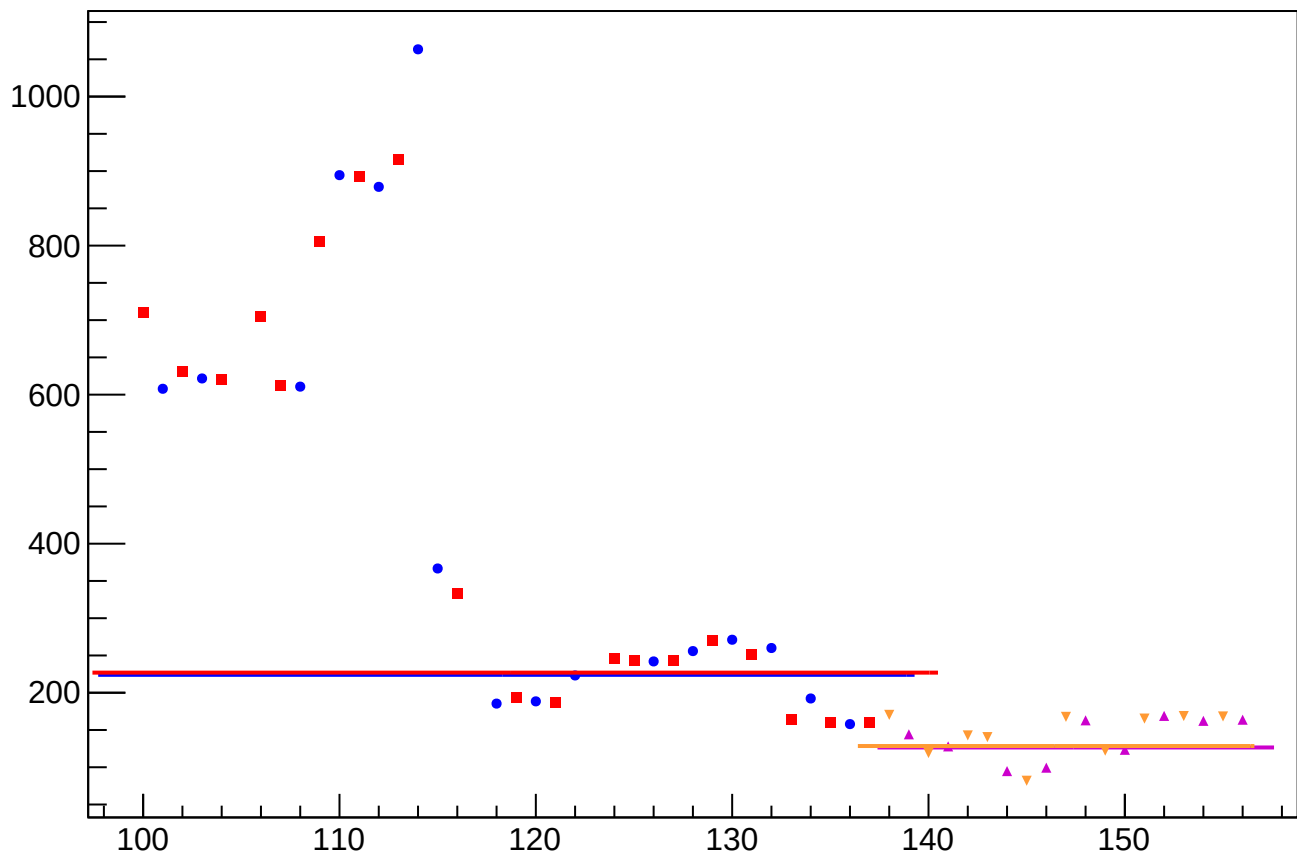
asym_sam_37_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 36.327+/-93.563 χ^2/NDF : 11.4/15
 Left Out: -159.970+/-47.675 χ^2/NDF : 9.2/9
 Right Out: 122.289+/-95.865 χ^2/NDF : 15.6/18
 Left In: 74.201+/-46.739 χ^2/NDF : 9.0/8

Left: -40.563+/-33.375 χ^2/NDF : 30.5/18
 Right: 78.263+/-66.958 χ^2/NDF : 27.4/34
 In: 66.637+/-41.812 χ^2/NDF : 20.5/24
 Out: -104.003+/-42.687 χ^2/NDF : 31.7/28
 All: -16.916+/-29.870 χ^2/NDF : 60.4/53

asym_sam_37_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 224.042 $\pm$ 0.066 χ^2/NDF : 2968059.8/15

Left Out: 128.483 $\pm$ 0.034 χ^2/NDF :1000306.2/9

Right Out: 226.971 $\pm$ 0.068 χ^2/NDF : 3571946.9/18

Left In: 126.537 $\pm$ 0.033 χ^2/NDF :702753.1/8

Left: 127.491 $\pm$ 0.024 χ^2/NDF : 1704759.2/18

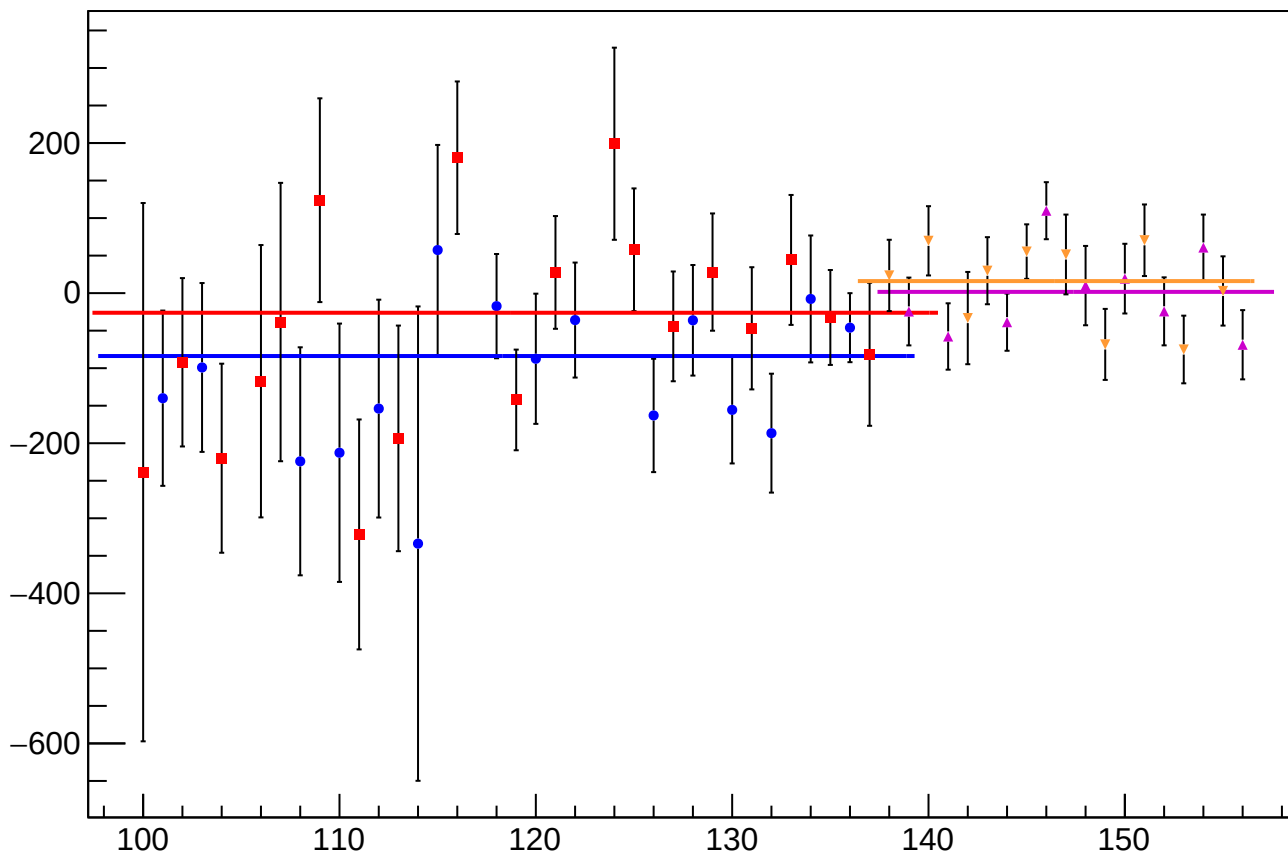
Right: 225.471 $\pm$ 0.047 χ^2/NDF : 6540963.0/34

In: 146.010 $\pm$ 0.030 χ^2/NDF :5409104.9/24

Out: 148.012 $\pm$ 0.030 χ^2/NDF :6264630.3/28

All: 146.990 $\pm$ 0.021 χ^2/NDF : 11675980.5/53

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: 16.043 ± 14.684 χ^2/NDF : 12.4/9

Right Out: -26.142 ± 22.069 χ^2/NDF : 22.9/18

Left In: 1.674 ± 14.619 χ^2/NDF : 16.0/8

Left: 8.826 ± 10.360 χ^2/NDF : 28.9/18

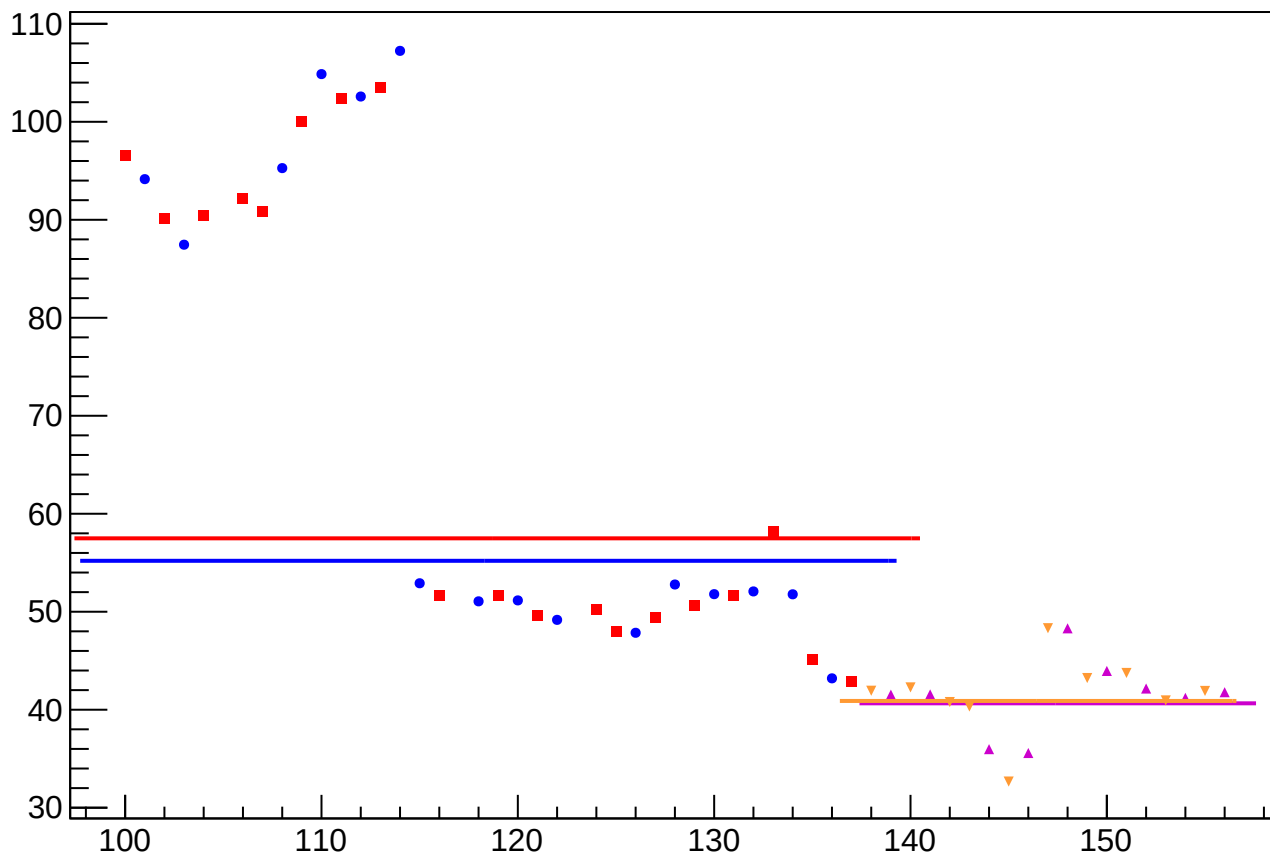
Right: -55.815 ± 15.376 χ^2/NDF : 37.0/34

In: -25.464 ± 12.077 χ^2/NDF : 37.4/24

Out: 3.097 ± 12.225 χ^2/NDF : 37.8/28

All: -11.357 ± 8.592 χ^2/NDF : 78.0/53

eigen_cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198 $\pm$ 0.015 χ^2/NDF : 1152581.3/15

Left Out: 40.895 $\pm$ 0.010 χ^2/NDF :157679.5/9

Right Out: 57.490 $\pm$ 0.016 χ^2/NDF : 1274387.3/18

Left In: 40.653 $\pm$ 0.010 χ^2/NDF :123141.3/8

Left: 40.774 $\pm$ 0.007 χ^2/NDF : 281093.2/18

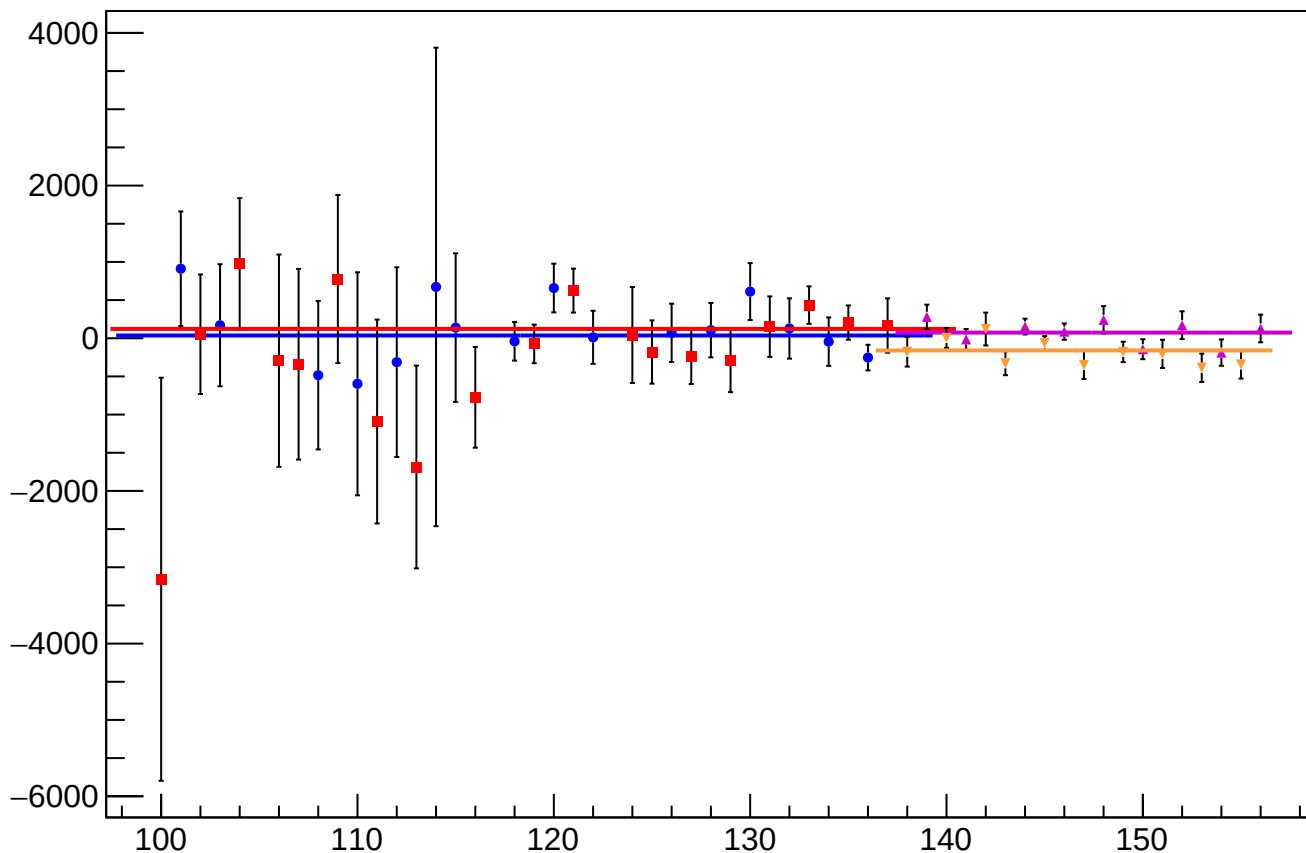
Right: 56.311 $\pm$ 0.011 χ^2/NDF : 2438075.6/34

In: 45.271 $\pm$ 0.009 χ^2/NDF :1904220.2/24

Out: 45.988 $\pm$ 0.009 χ^2/NDF :2215916.8/28

All: 45.625 $\pm$ 0.006 χ^2/NDF : 4123618.0/53

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: -159.970+/-47.675 χ^2/NDF : 9.2/9

Right Out: 122.289+/-95.865 χ^2/NDF : 15.6/18

Left In: 74.201+/-46.739 χ^2/NDF : 9.0/8

Left: -40.563+/-33.375 χ^2/NDF : 30.5/18

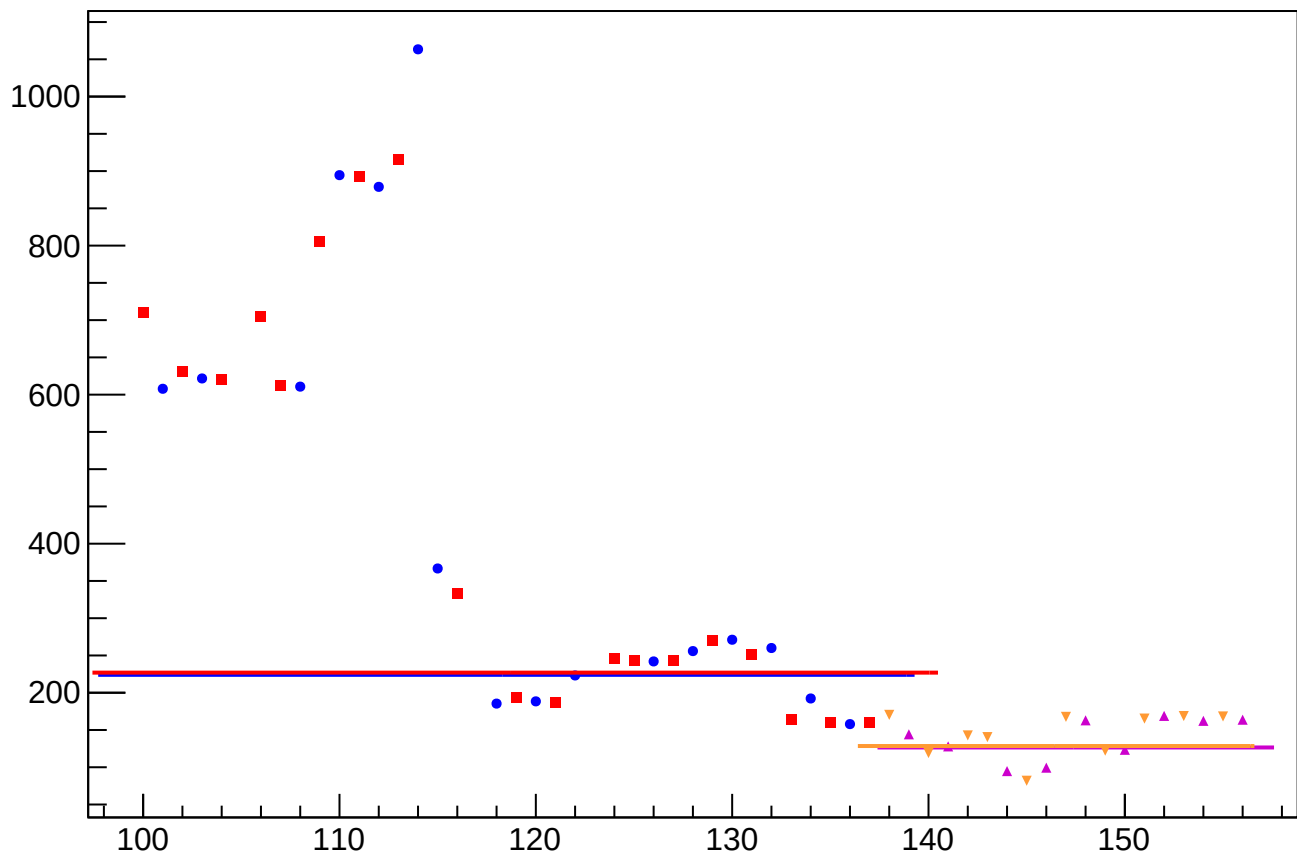
Right: 78.263+/-66.958 χ^2/NDF : 27.4/34

In: 66.637+/-41.812 χ^2/NDF : 20.5/24

Out: -104.003+/-42.687 χ^2/NDF : 31.7/28

All: -16.916+/-29.870 χ^2/NDF : 60.4/53

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: 128.483 $\pm$ 0.034 χ^2 /NDF:1000306.2/9

Right Out: 226.971 $\pm$ 0.068 χ^2 /NDF: 3571946.9/18

Left In: 126.537 $\pm$ 0.033 χ^2 /NDF:702753.1/8

Left: 127.491 $\pm$ 0.024 χ^2 /NDF: 1704759.2/18

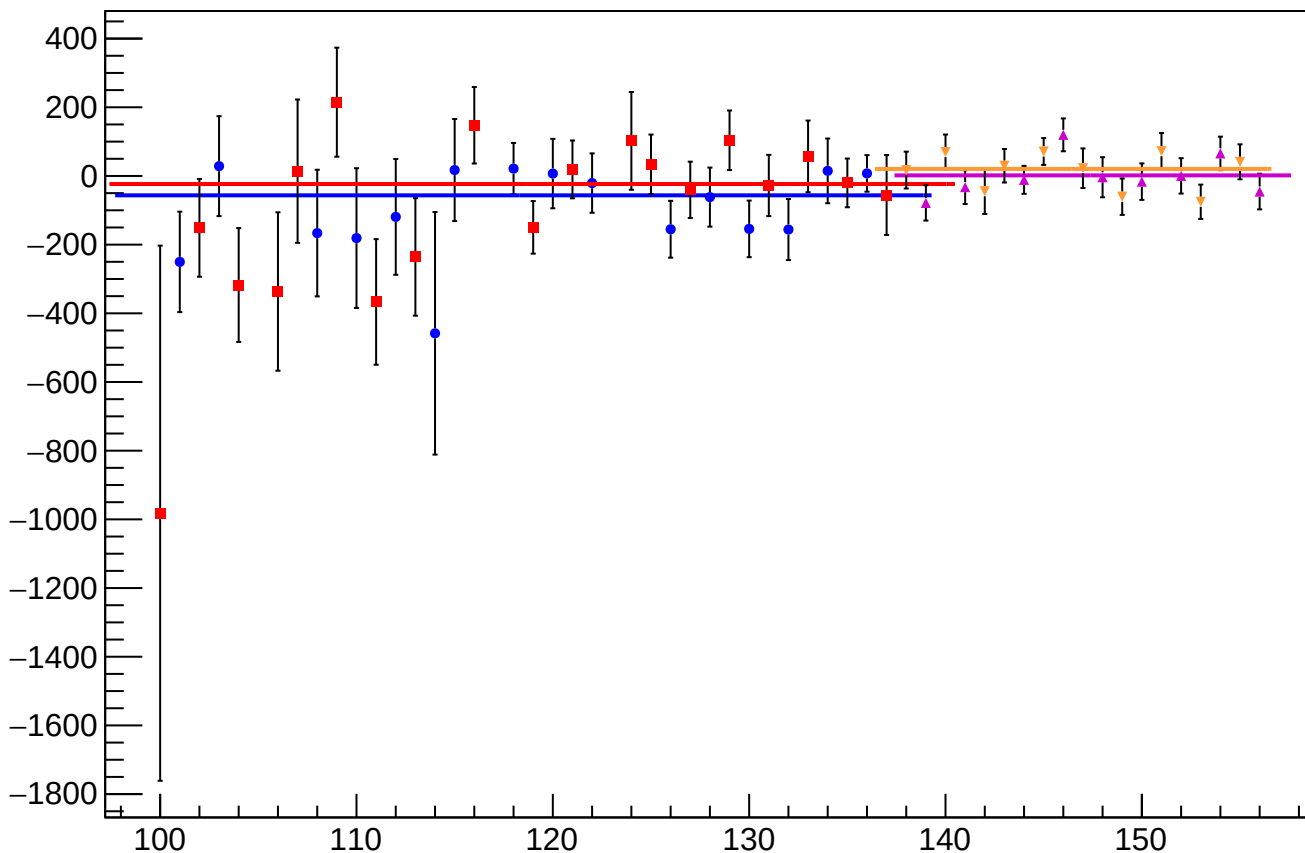
Right: 225.471 $\pm$ 0.047 χ^2 /NDF: 6540963.0/34

In: 146.010 $\pm$ 0.030 χ^2 /NDF:5409104.9/24

Out: 148.012 $\pm$ 0.030 χ^2 /NDF:6264630.3/28

All: 146.990 $\pm$ 0.021 χ^2 /NDF: 11675980.5/53

dit_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.414 $\pm$ 24.489 χ^2 /NDF: 12.3/15

Left Out: 20.476 $\pm$ 16.147 χ^2 /NDF:10.7/9

Right Out: -23.495 $\pm$ 25.161 χ^2 /NDF: 24.1/18

Left In: 1.710 $\pm$ 16.559 χ^2 /NDF:11.8/8

Left: 11.329 $\pm$ 11.560 χ^2 /NDF: 23.2/18

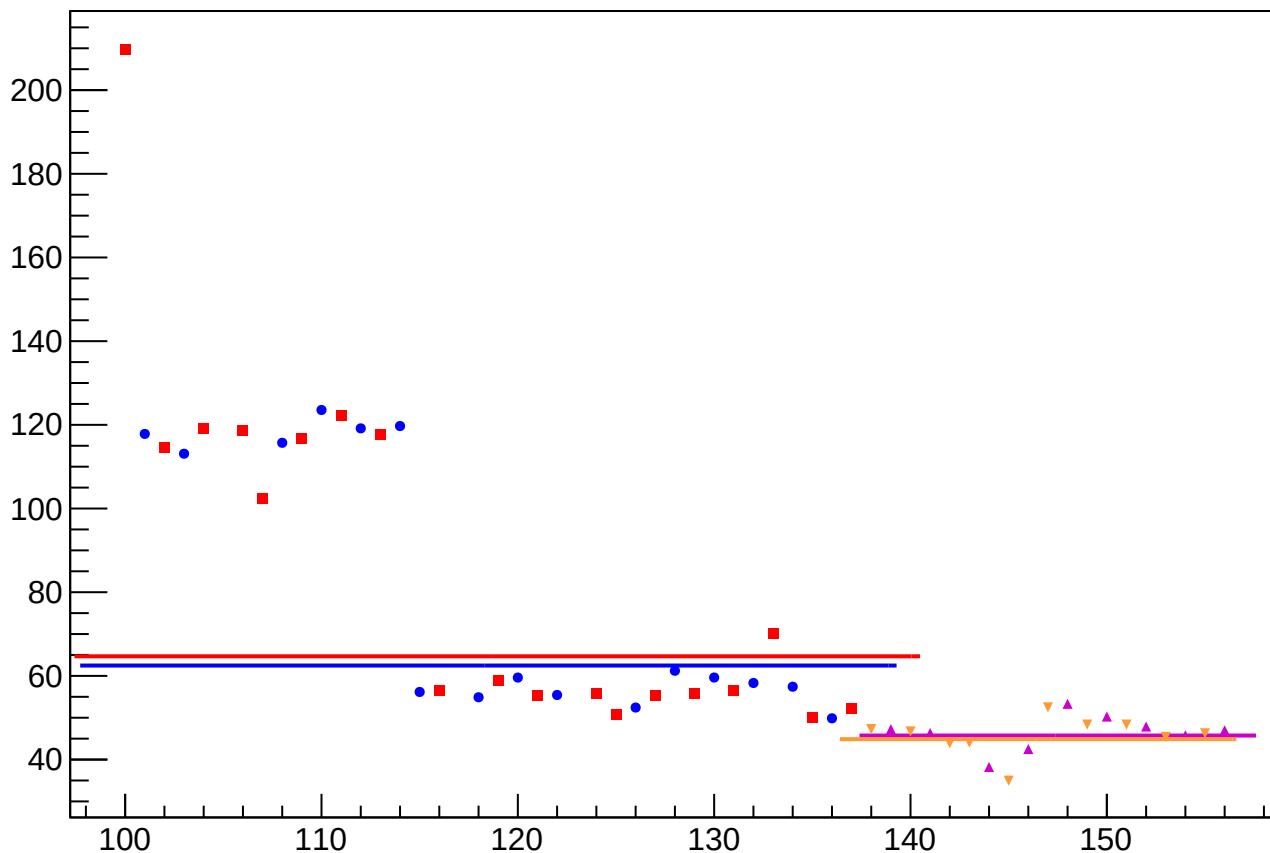
Right: -40.400 $\pm$ 17.549 χ^2 /NDF: 37.2/34

In: -16.526 $\pm$ 13.717 χ^2 /NDF:27.9/24

Out: 7.649 $\pm$ 13.589 χ^2 /NDF:37.0/28

All: -4.325 $\pm$ 9.654 χ^2 /NDF: 66.4/53

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: 44.880+/-0.011 χ^2/NDF :190457.4/9

Right Out: 64.680+/-0.018 χ^2/NDF : 1590446.9/18

Left In: 45.747+/-0.012 χ^2/NDF :132703.1/8

Left: 45.303+/-0.008 χ^2/NDF : 325971.2/18

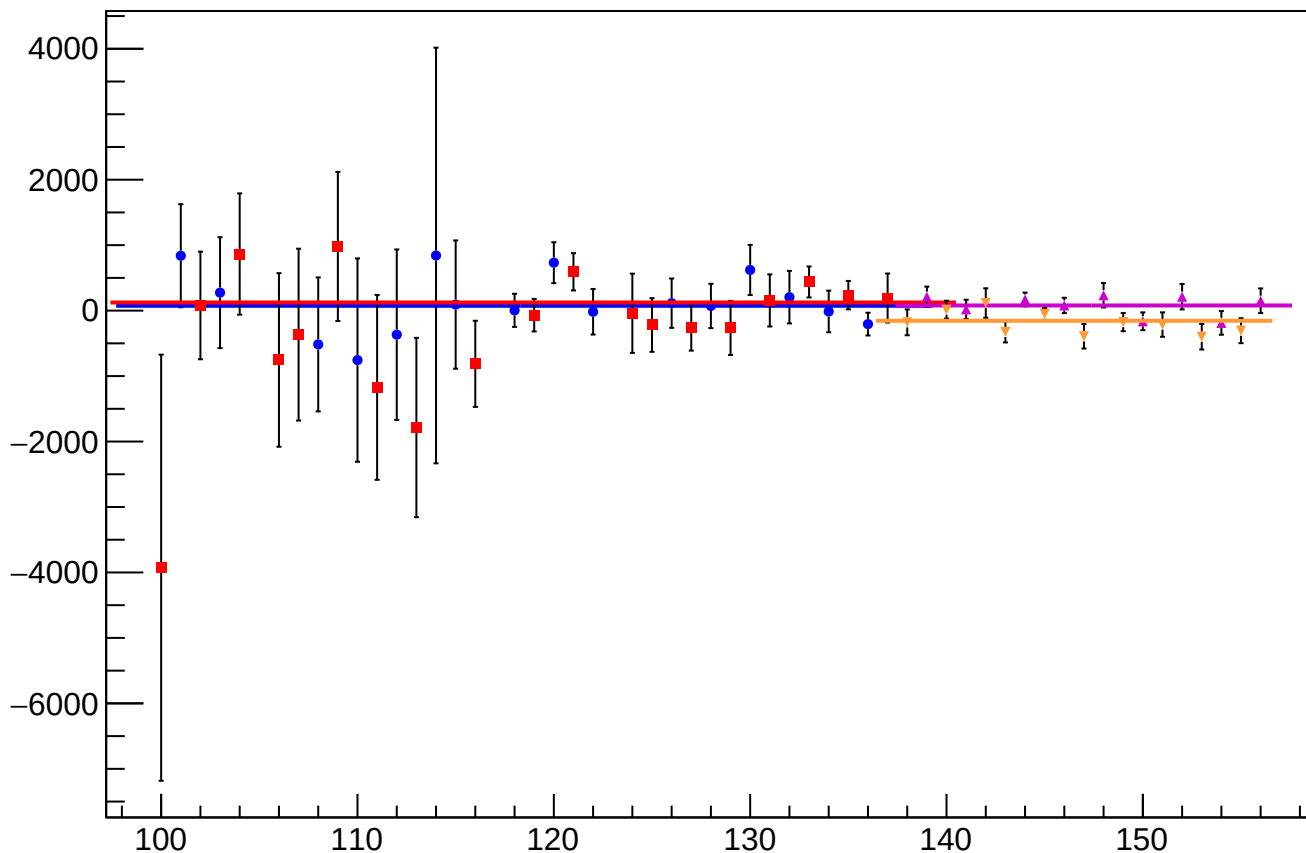
Right: 63.547+/-0.012 χ^2/NDF : 2946567.9/34

In: 50.995+/-0.010 χ^2/NDF :2121265.5/24

Out: 50.656+/-0.010 χ^2/NDF :2658199.8/28

All: 50.824+/-0.007 χ^2/NDF : 4780083.4/53

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: -155.019+/-48.550 χ^2/NDF : 9.4/9

Right Out: 124.201+/-94.665 χ^2/NDF : 16.3/18

Left In: 78.660+/-48.738 χ^2/NDF : 8.3/8

Left: -38.630+/-34.396 χ^2/NDF : 29.3/18

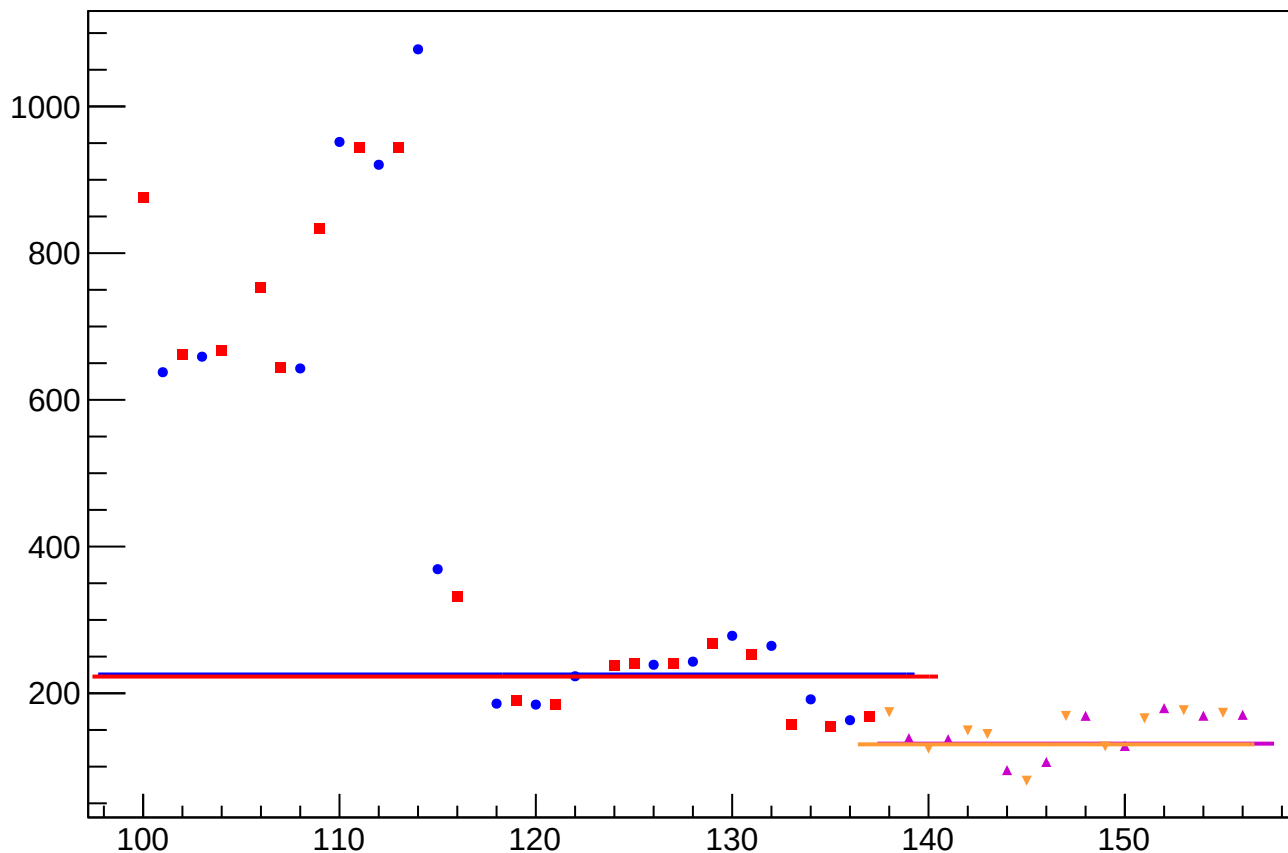
Right: 99.202+/-66.877 χ^2/NDF : 27.7/34

In: 77.742+/-43.315 χ^2/NDF : 19.5/24

Out: -96.871+/-43.200 χ^2/NDF : 32.6/28

All: -9.797+/-30.588 χ^2/NDF : 60.3/53

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: 130.376 $\pm$ 0.034 χ^2 /NDF:1113161.7/9

Right Out: 222.786 $\pm$ 0.067 χ^2 /NDF: 3848156.1/18

Left In: 131.334 $\pm$ 0.034 χ^2 /NDF:720627.0/8

Left: 130.853 $\pm$ 0.024 χ^2 /NDF: 1834177.3/18

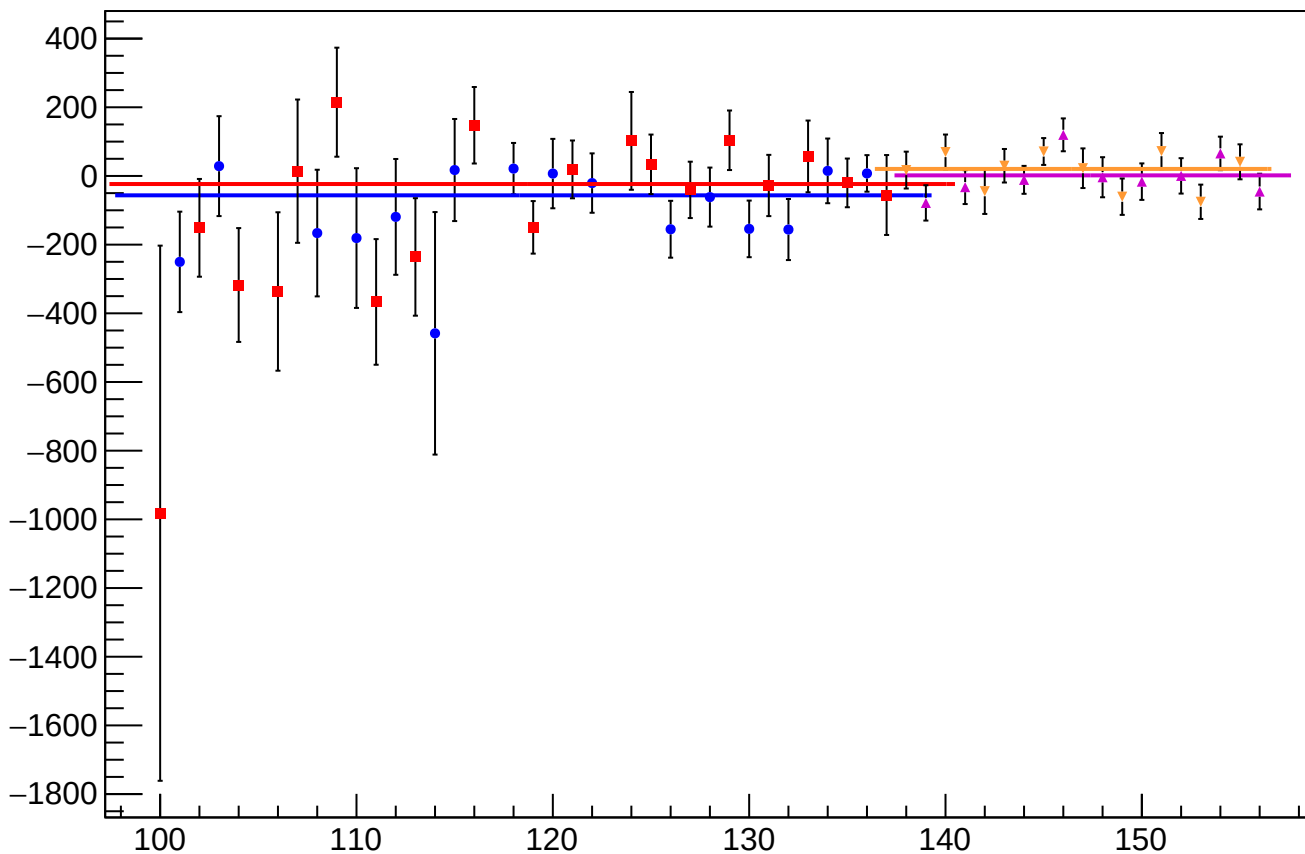
Right: 224.203 $\pm$ 0.047 χ^2 /NDF: 6875057.9/34

In: 151.146 $\pm$ 0.031 χ^2 /NDF:5319276.9/24

Out: 149.620 $\pm$ 0.031 χ^2 /NDF:6470276.6/28

All: 150.381 $\pm$ 0.022 χ^2 /NDF: 11790796.8/53

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: 20.477 ± 16.147 χ^2/NDF : 10.7/9

Right Out: -23.498 ± 25.160 χ^2/NDF : 24.1/18

Left In: 1.711 ± 16.559 χ^2/NDF : 11.8/8

Left: 11.330 ± 11.560 χ^2/NDF : 23.2/18

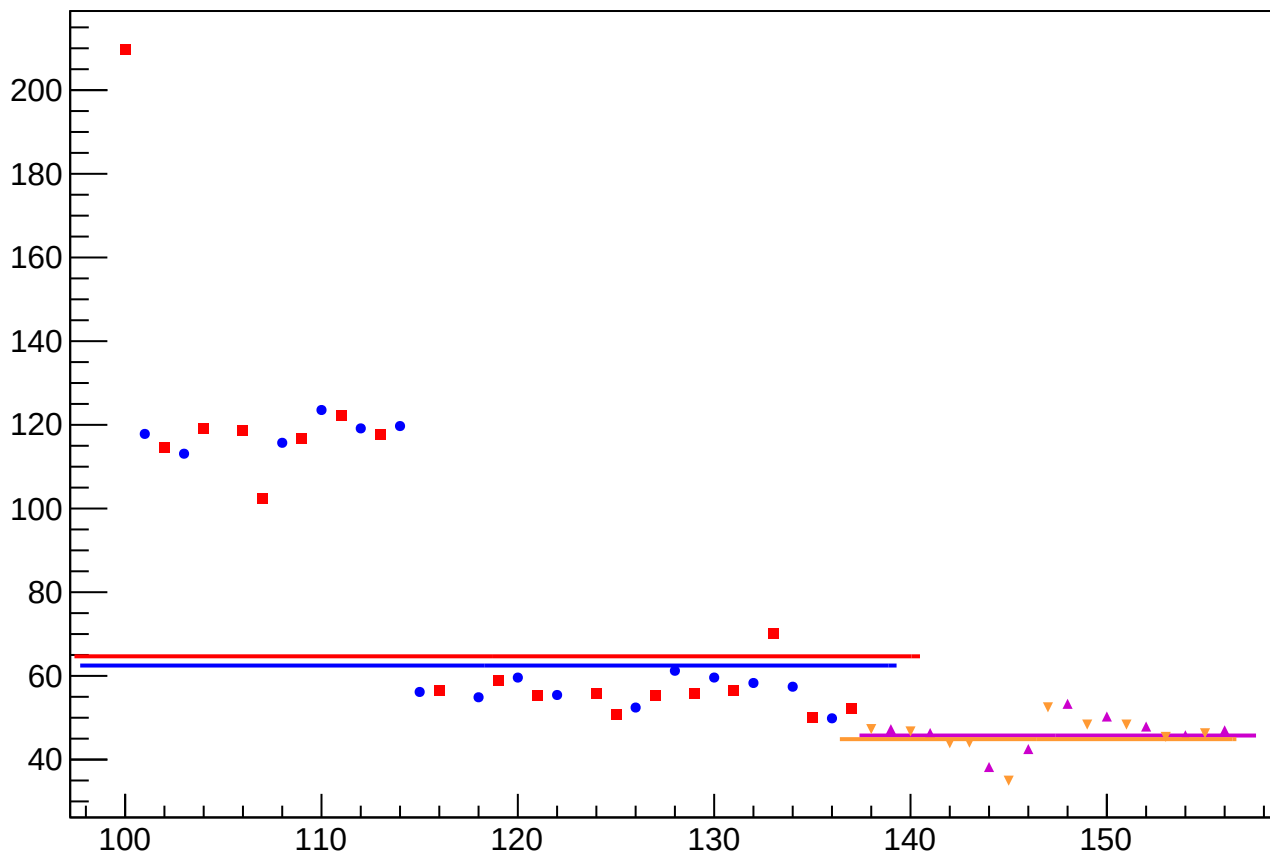
Right: -40.402 ± 17.549 χ^2/NDF : 37.2/34

In: -16.526 ± 13.717 χ^2/NDF : 27.9/24

Out: 7.649 ± 13.589 χ^2/NDF : 37.0/28

All: -4.325 ± 9.654 χ^2/NDF : 66.4/53

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: 44.880+/-0.011 χ^2/NDF : 190460.5/9

Right Out: 64.680+/-0.018 χ^2/NDF : 1590426.1/18

Left In: 45.747+/-0.012 χ^2/NDF : 132703.5/8

Left: 45.303+/-0.008 χ^2/NDF : 325974.7/18

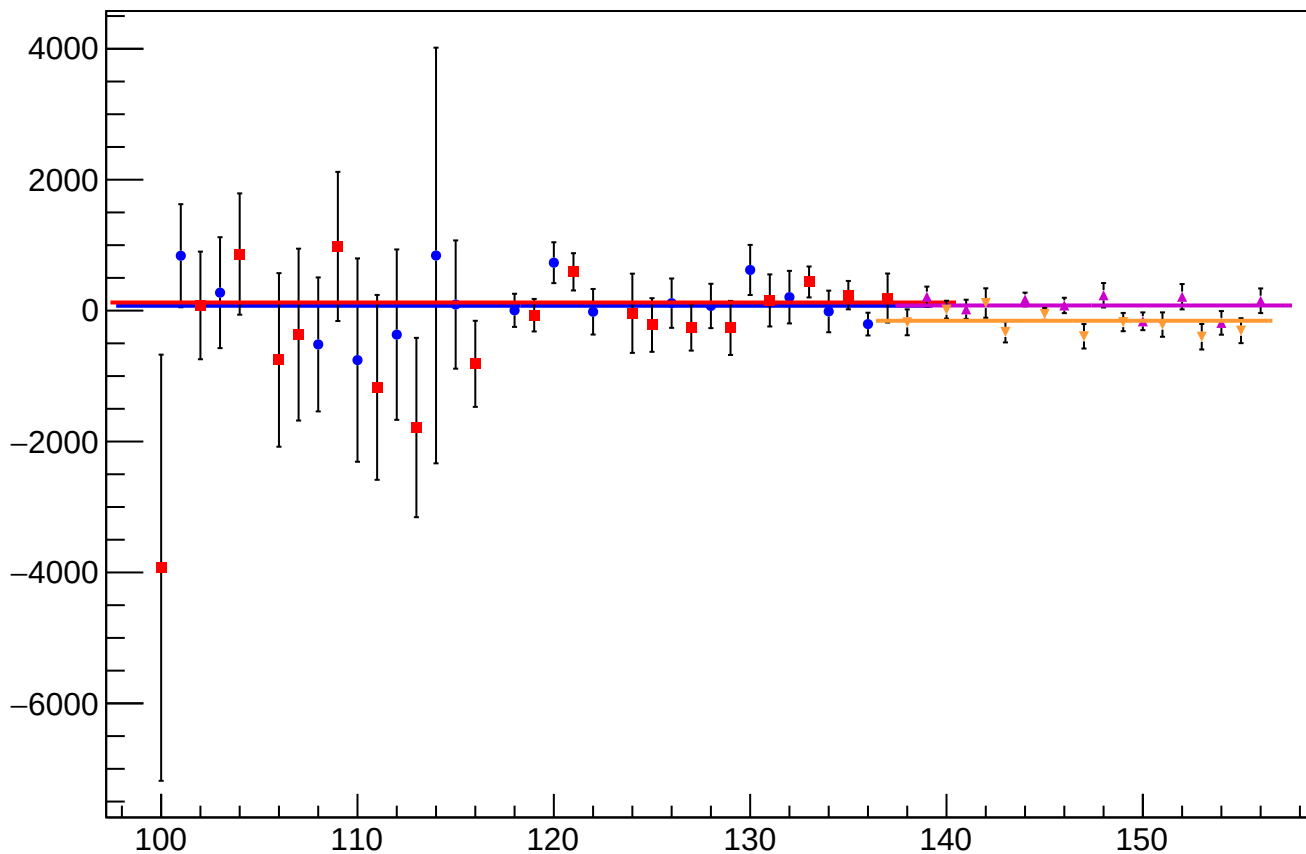
Right: 63.547+/-0.012 χ^2/NDF : 2946529.3/34

In: 50.995+/-0.010 χ^2/NDF : 2121206.9/24

Out: 50.656+/-0.010 χ^2/NDF : 2658155.2/28

All: 50.824+/-0.007 χ^2/NDF : 4779980.0/53

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: -155.018+/-48.551 χ^2/NDF : 9.4/9

Right Out: 124.199+/-94.666 χ^2/NDF : 16.3/18

Left In: 78.660+/-48.738 χ^2/NDF : 8.3/8

Left: -38.629+/-34.396 χ^2/NDF : 29.3/18

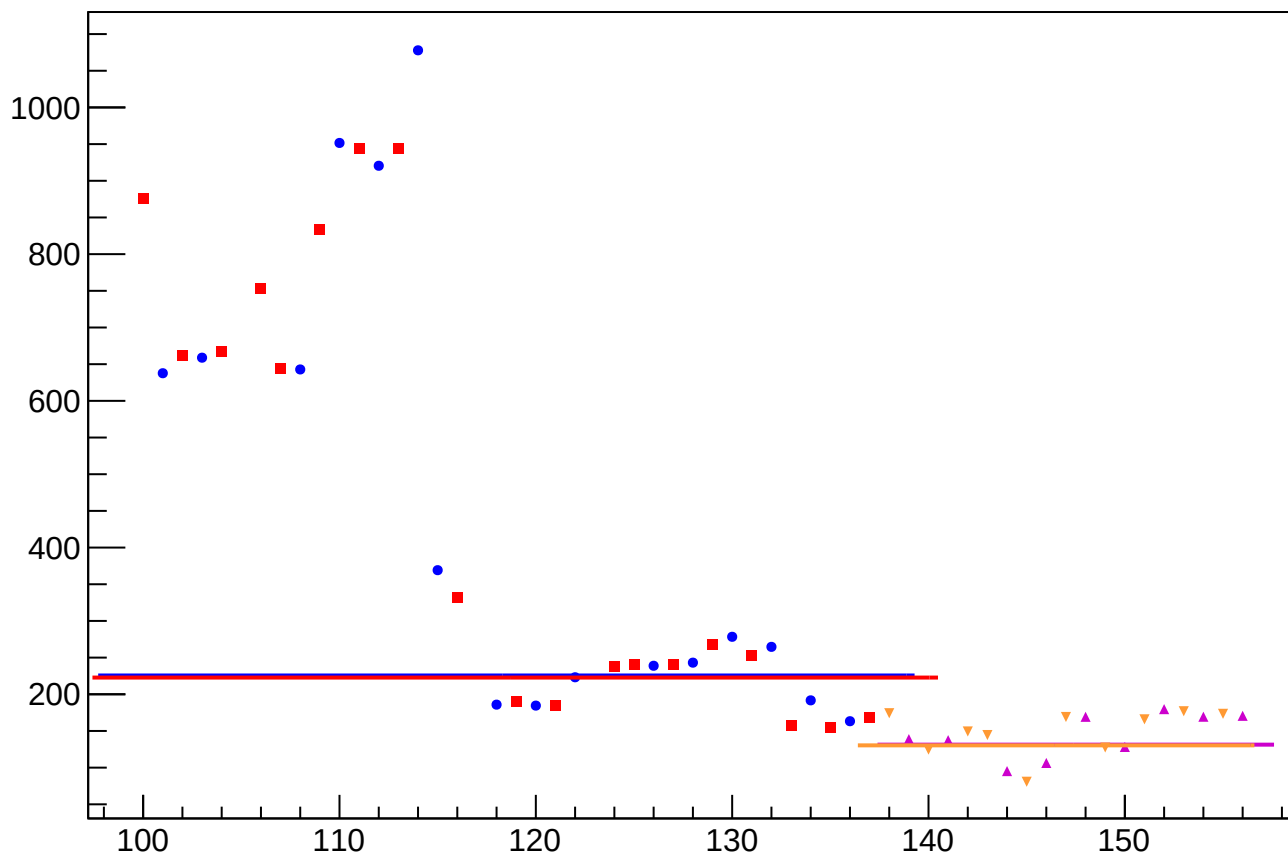
Right: 99.201+/-66.877 χ^2/NDF : 27.7/34

In: 77.743+/-43.315 χ^2/NDF : 19.5/24

Out: -96.871+/-43.200 χ^2/NDF : 32.6/28

All: -9.796+/-30.588 χ^2/NDF : 60.3/53

asym_sam_37_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 225.614 ± 0.067 χ^2/NDF : 3025994.8/15

Left Out: 130.376 ± 0.034 χ^2/NDF : 1113156.1/9

Right Out: 222.787 ± 0.067 χ^2/NDF : 3848136.6/18

Left In: 131.335 ± 0.034 χ^2/NDF : 720621.7/8

Left: 130.853 ± 0.024 χ^2/NDF : 1834166.1/18

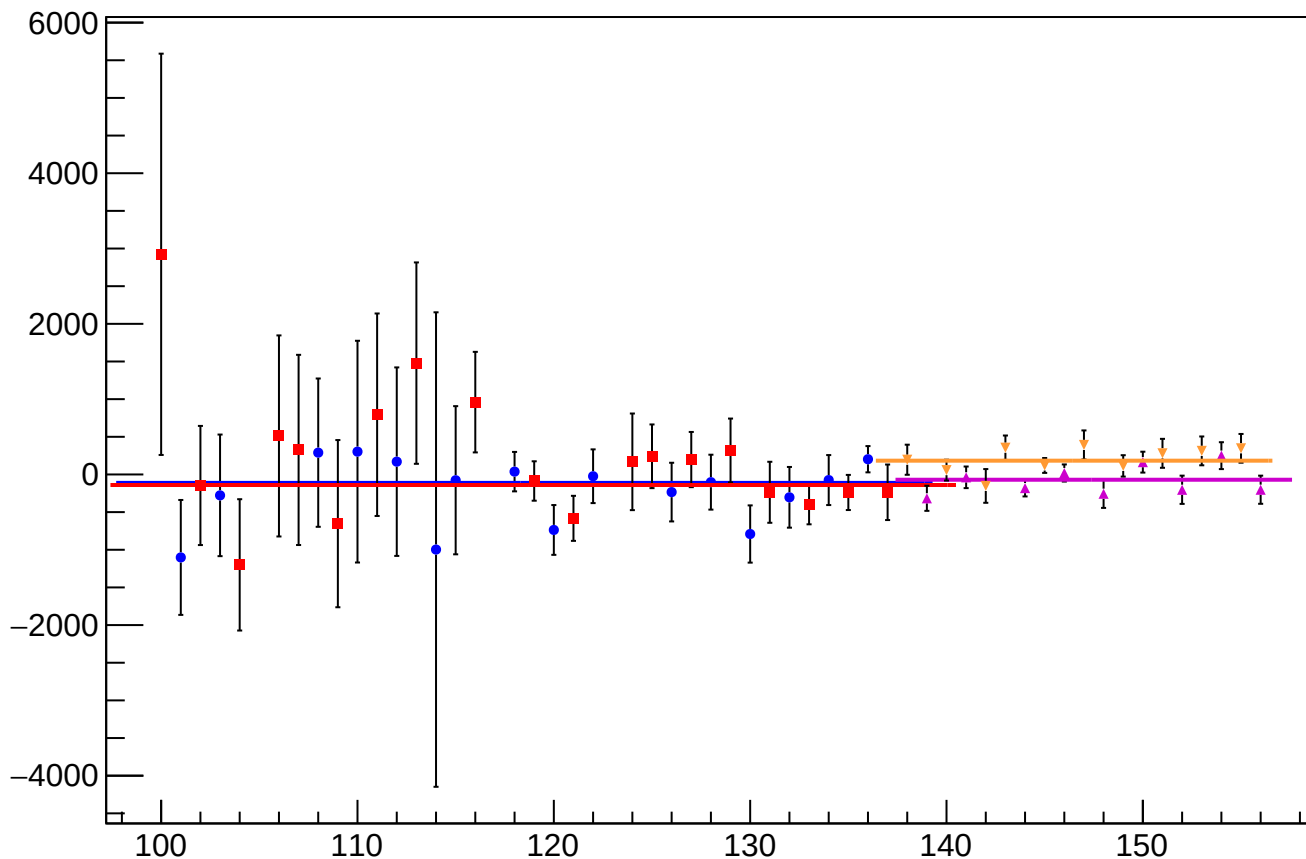
Right: 224.203 ± 0.047 χ^2/NDF : 6875025.2/34

In: 151.146 ± 0.031 χ^2/NDF : 5319252.7/24

Out: 149.621 ± 0.031 χ^2/NDF : 6470248.4/28

All: 150.381 ± 0.022 χ^2/NDF : 11790744.0/53

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -111.916 ± 96.551 $\chi^2/\text{NDF}: 12.8/15$

Left Out: 183.023 ± 50.235 $\chi^2/\text{NDF}: 7.5/9$

Right Out: -139.974 ± 99.174 $\chi^2/\text{NDF}: 14.6/18$

Left In: -70.125 ± 49.274 $\chi^2/\text{NDF}: 11.9/8$

Left: 54.004 ± 35.177 $\chi^2/\text{NDF}: 32.3/18$

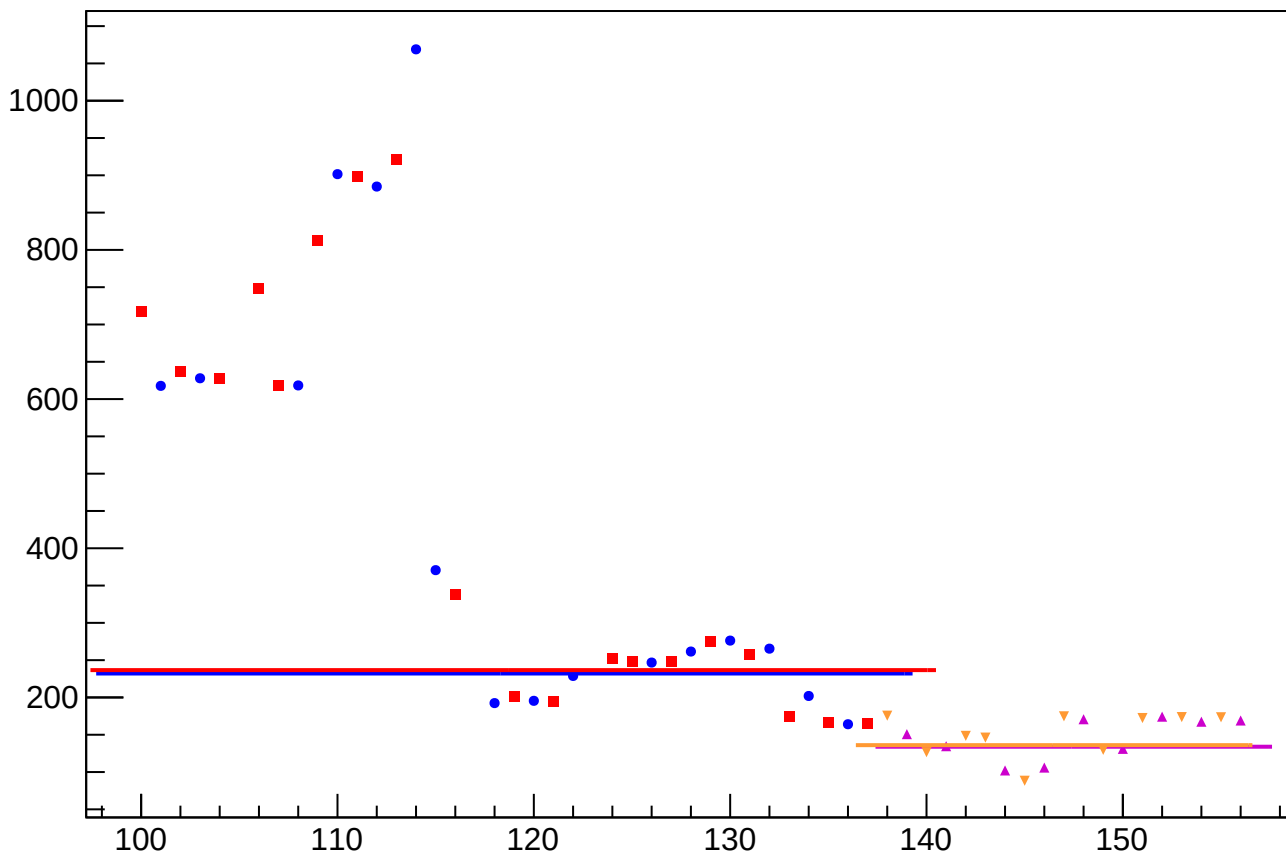
Right: -125.569 ± 69.180 $\chi^2/\text{NDF}: 27.5/34$

In: -78.761 ± 43.889 $\chi^2/\text{NDF}: 24.9/24$

Out: 117.071 ± 44.814 $\chi^2/\text{NDF}: 30.6/28$

All: 17.114 ± 31.356 $\chi^2/\text{NDF}: 65.2/53$

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: 136.048 $\pm$ 0.036 χ^2/NDF : 878822.2/9

Right Out: 236.647 $\pm$ 0.070 χ^2/NDF : 3521033.7/18

Left In: 133.945 $\pm$ 0.035 χ^2/NDF : 616674.6/8

Left: 134.976 $\pm$ 0.025 χ^2/NDF : 1497284.1/18

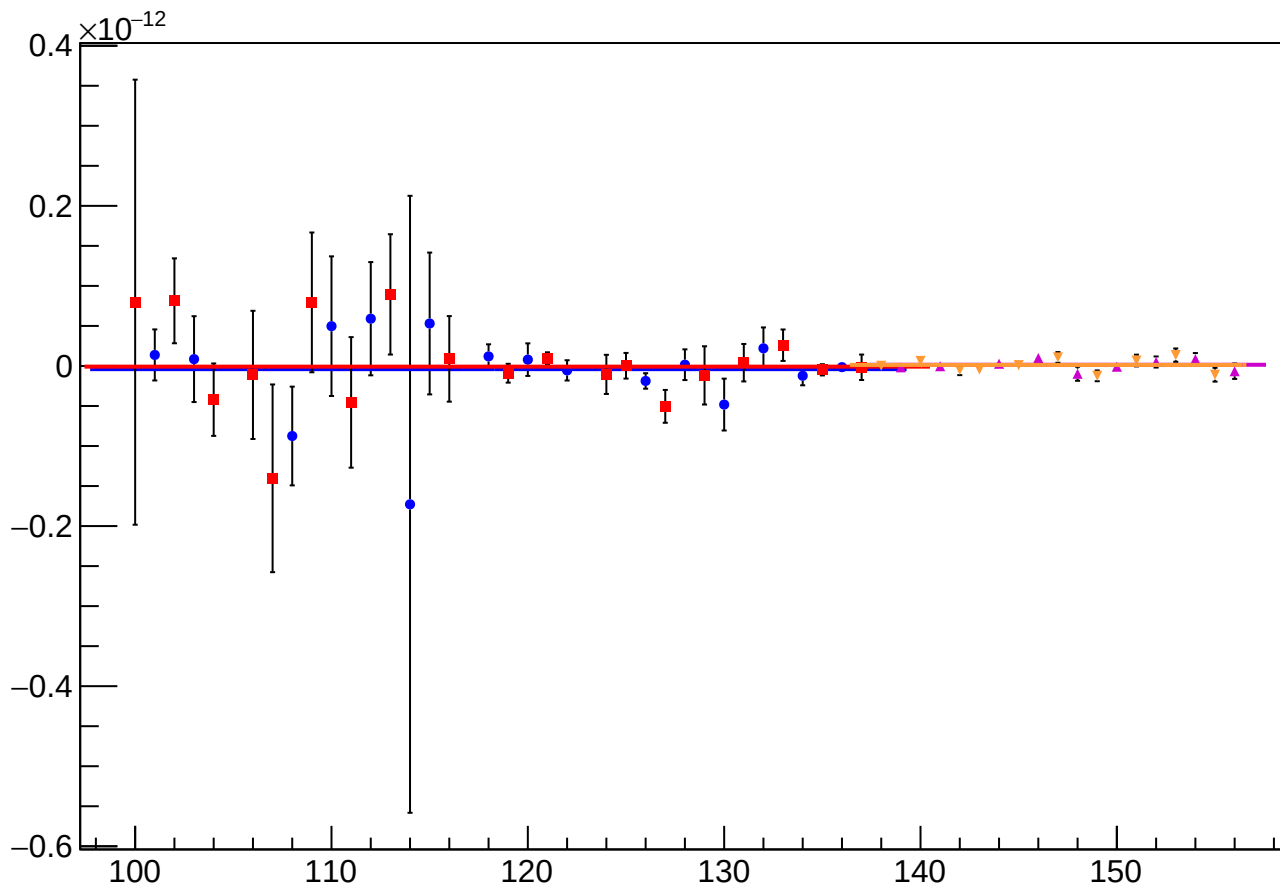
Right: 234.316 $\pm$ 0.049 χ^2/NDF : 6408696.2/34

In: 154.228 $\pm$ 0.031 χ^2/NDF : 5142325.2/24

Out: 156.589 $\pm$ 0.032 χ^2/NDF : 6037539.3/28

All: 155.384 $\pm$ 0.022 χ^2/NDF : 11182698.0/53

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 :14.9/9

Right Out: -0.000+/-0.000 χ^2/NDF : 18.1/18

Left In: 0.000+/-0.000 χ^2/NDF :6.4/8

Left: 0.000+/-0.000 χ^2/NDF : 21.3/18

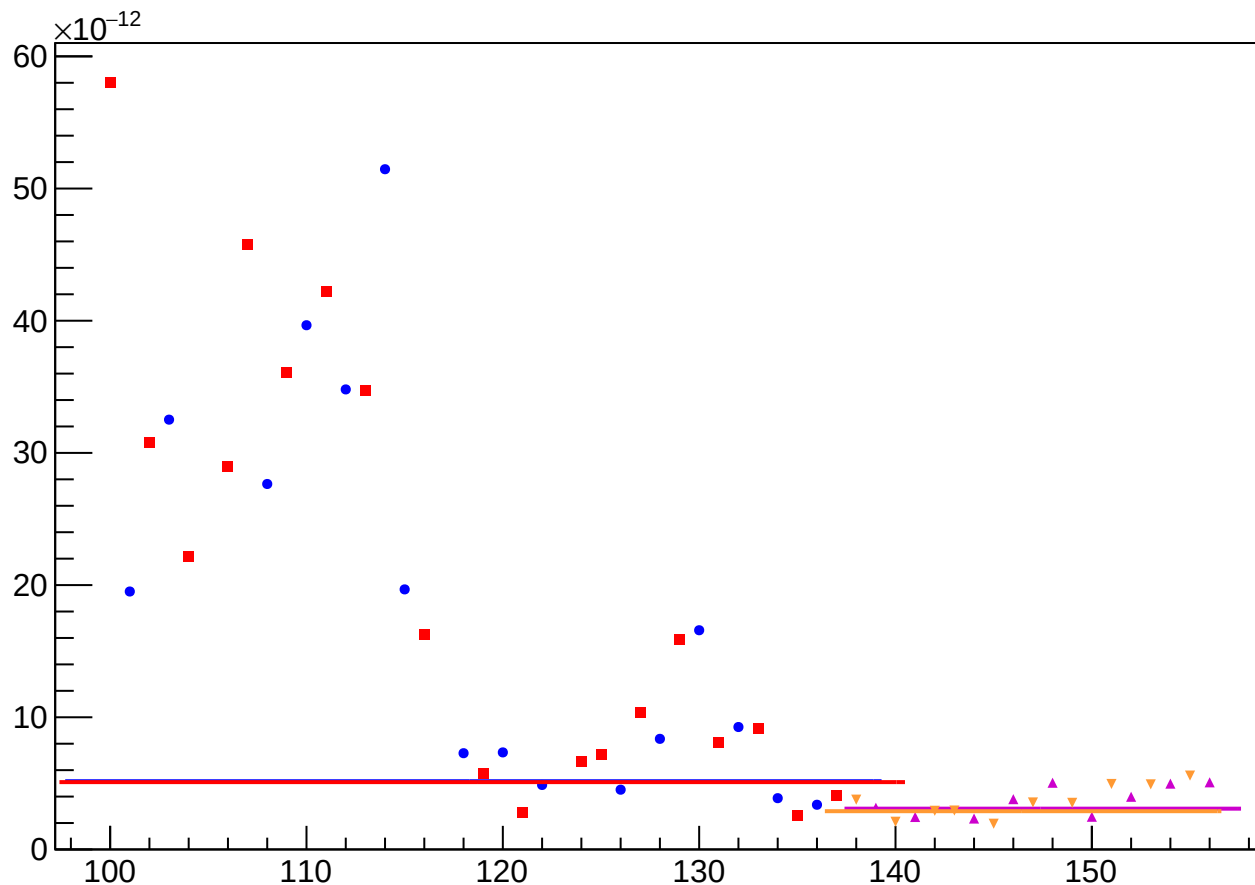
Right: -0.000+/-0.000 χ^2/NDF : 29.8/34

In: 0.000+/-0.000 χ^2/NDF :19.6/24

Out: 0.000+/-0.000 χ^2/NDF :33.2/28

All: 0.000+/-0.000 χ^2/NDF : 52.9/53

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 :829362.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3236196.8/18

Left In: 0.000+/-0.000 χ^2/NDF :542508.4/8

Left: 0.000+/-0.000 χ^2/NDF : 1384056.0/18

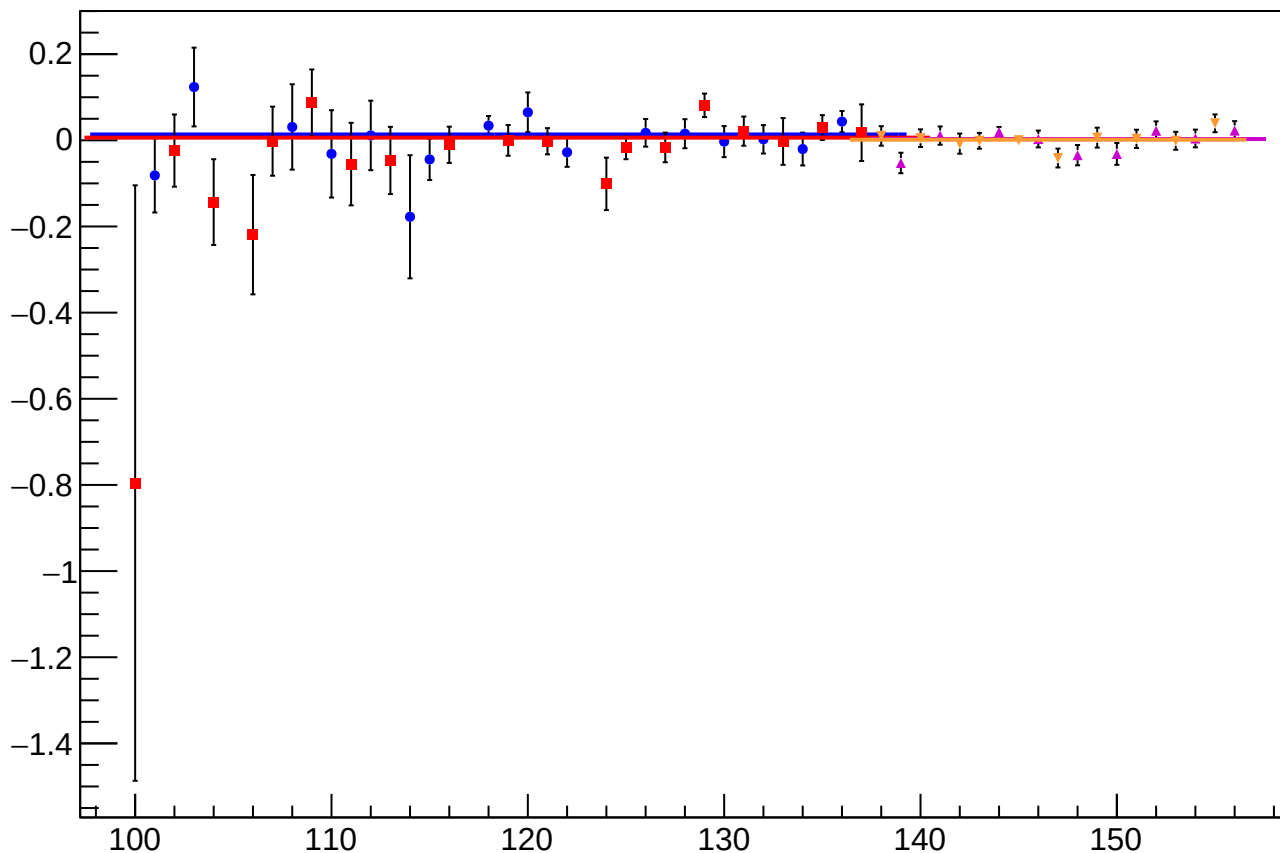
Right: 0.000+/-0.000 χ^2/NDF : 5854929.1/34

In: 0.000+/-0.000 χ^2/NDF :3677036.9/24

Out: 0.000+/-0.000 χ^2/NDF :4591305.6/28

All: 0.000+/-0.000 χ^2/NDF : 8295623.1/53

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: 0.001 $\pm$ 0.006 χ^2 /NDF:7.6/9

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.003 $\pm$ 0.006 χ^2 /NDF:13.5/8

Left: 0.002 $\pm$ 0.004 χ^2 /NDF: 21.1/18

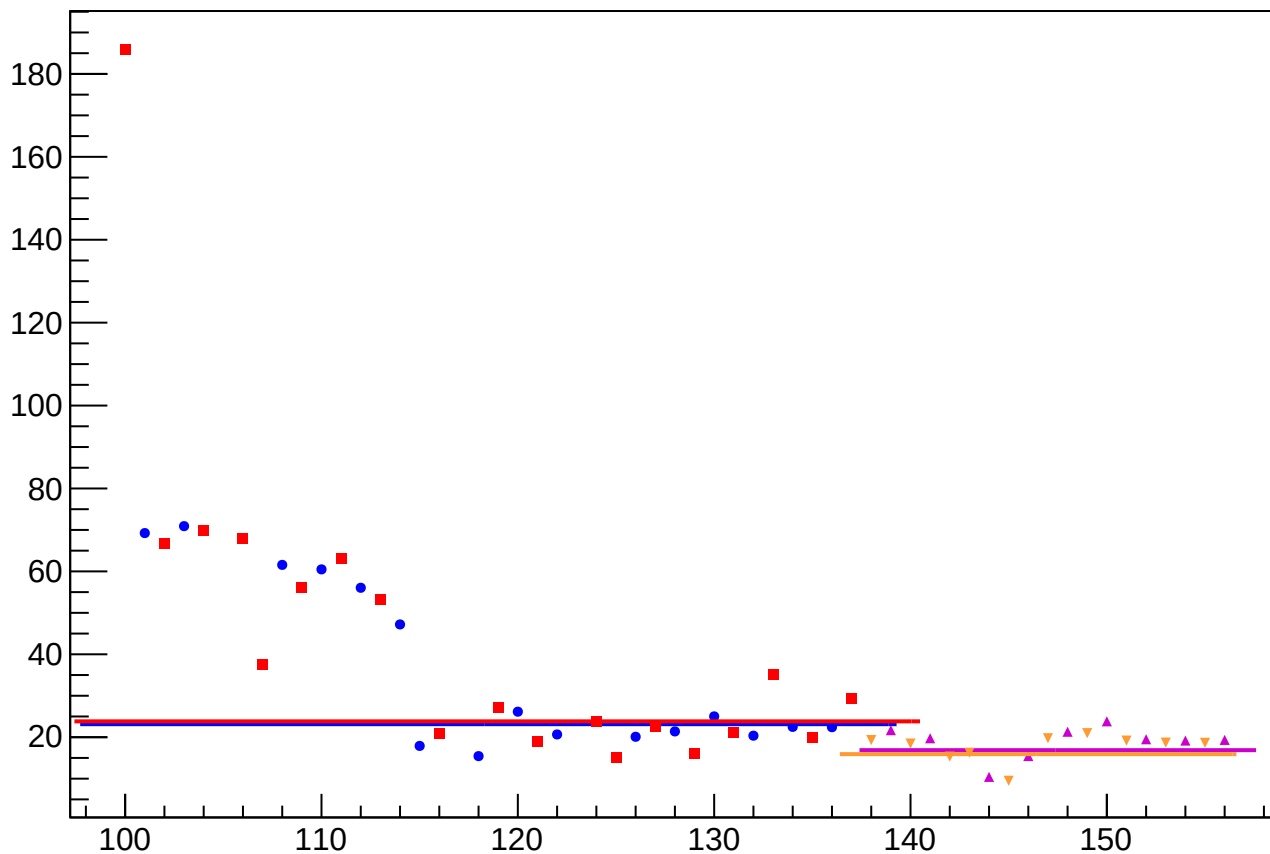
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:26.6/24

Out: 0.003 $\pm$ 0.005 χ^2 /NDF:29.2/28

All: 0.004 $\pm$ 0.004 χ^2 /NDF: 56.1/53

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.145 $\pm$ 0.007 χ^2 /NDF: 2406426.8/15

Left Out: 15.916 $\pm$ 0.004 χ^2 /NDF: 1000281.8/9

Right Out: 23.825 $\pm$ 0.007 χ^2 /NDF: 2898916.7/18

Left In: 16.874 $\pm$ 0.005 χ^2 /NDF: 1028905.4/8

Left: 16.357 $\pm$ 0.003 χ^2 /NDF: 2052701.2/18

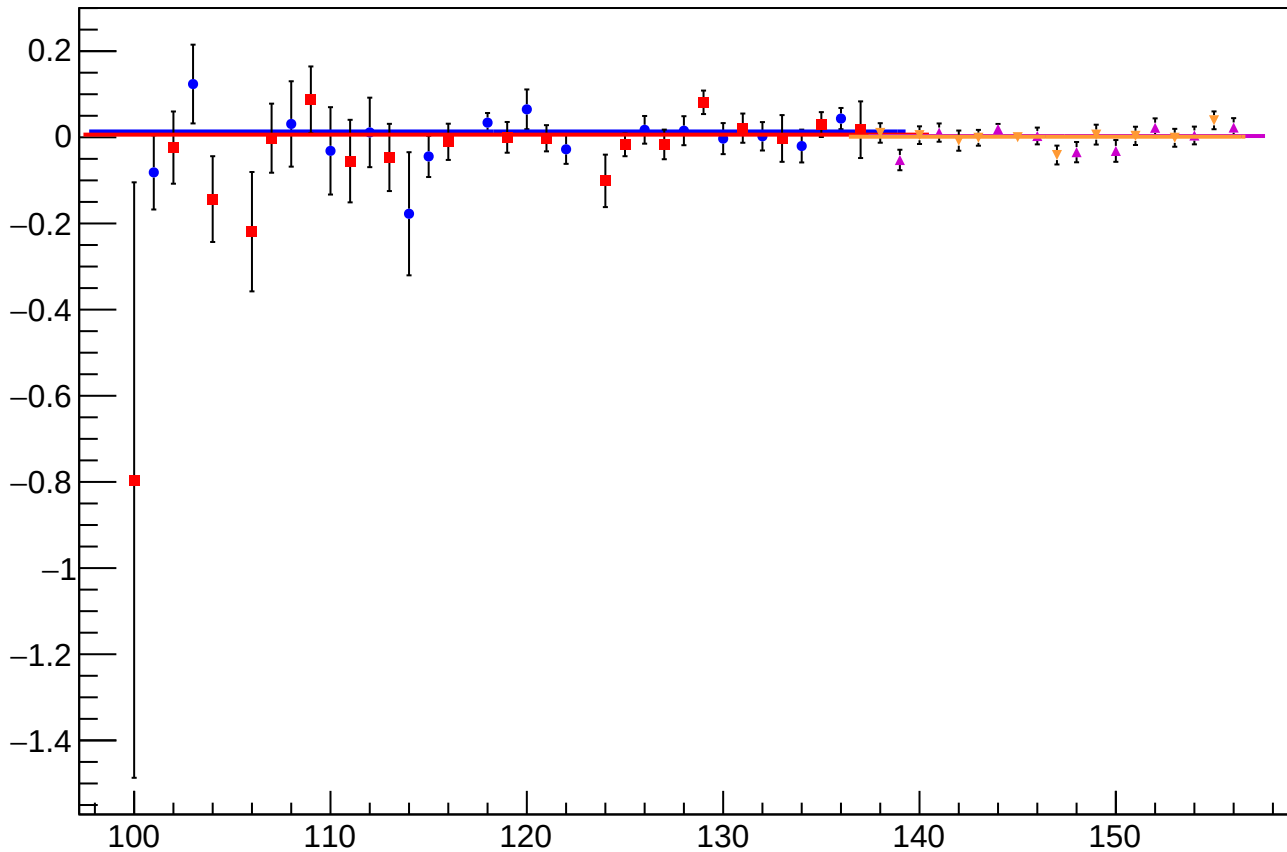
Right: 23.477 $\pm$ 0.005 χ^2 /NDF: 5310004.0/34

In: 18.773 $\pm$ 0.004 χ^2 /NDF: 4000946.6/24

Out: 17.988 $\pm$ 0.004 χ^2 /NDF: 4810131.1/28

All: 18.361 $\pm$ 0.003 χ^2 /NDF: 8833114.0/53

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: 0.001 $\pm$ 0.006 χ^2 /NDF:7.6/9

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.003 $\pm$ 0.006 χ^2 /NDF:13.5/8

Left: 0.002 $\pm$ 0.004 χ^2 /NDF: 21.1/18

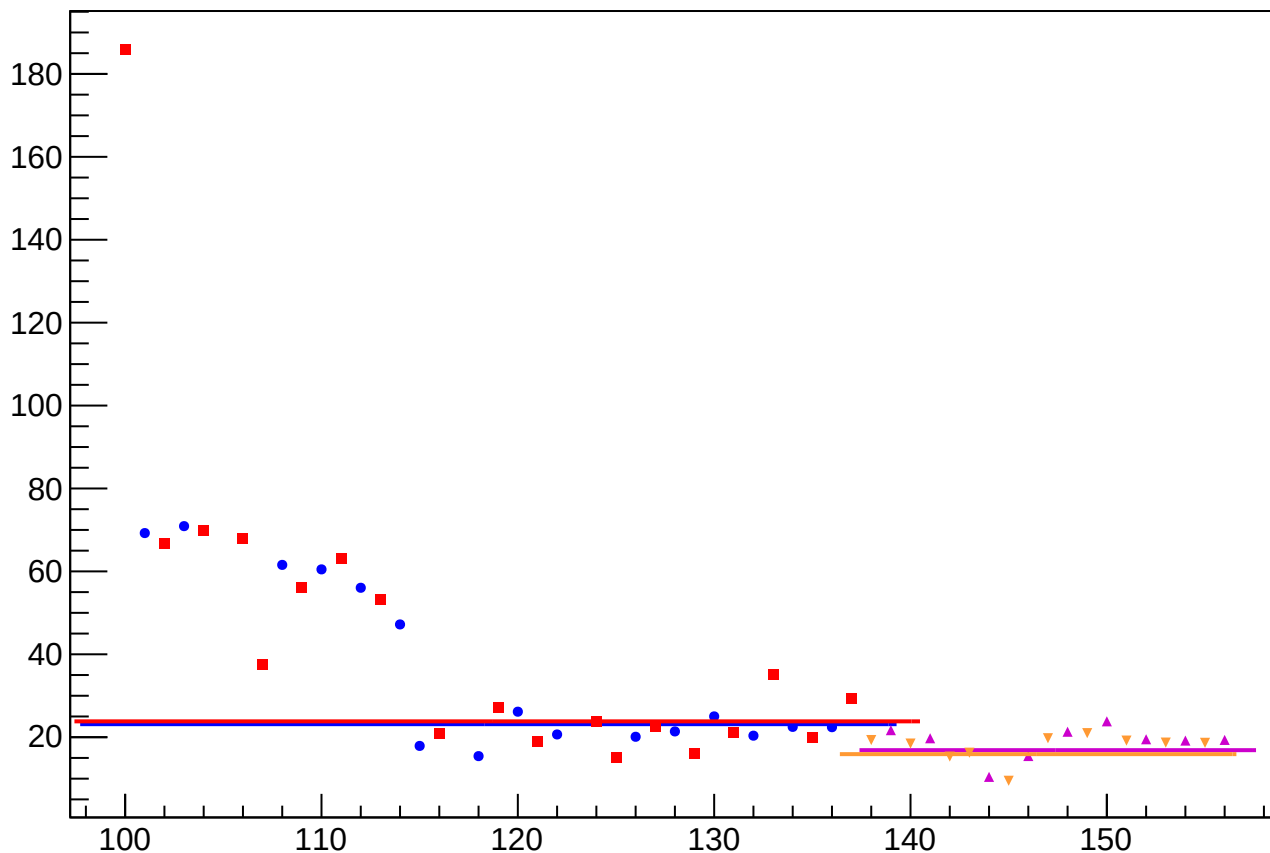
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:26.6/24

Out: 0.003 $\pm$ 0.005 χ^2 /NDF:29.2/28

All: 0.004 $\pm$ 0.004 χ^2 /NDF: 56.1/53

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: 15.916+/-0.004 χ^2/NDF : 1000281.8/9

Right Out: 23.825+/-0.007 χ^2/NDF : 2898916.7/18

Left In: 16.874+/-0.005 χ^2/NDF : 1028905.4/8

Left: 16.357+/-0.003 χ^2/NDF : 2052701.2/18

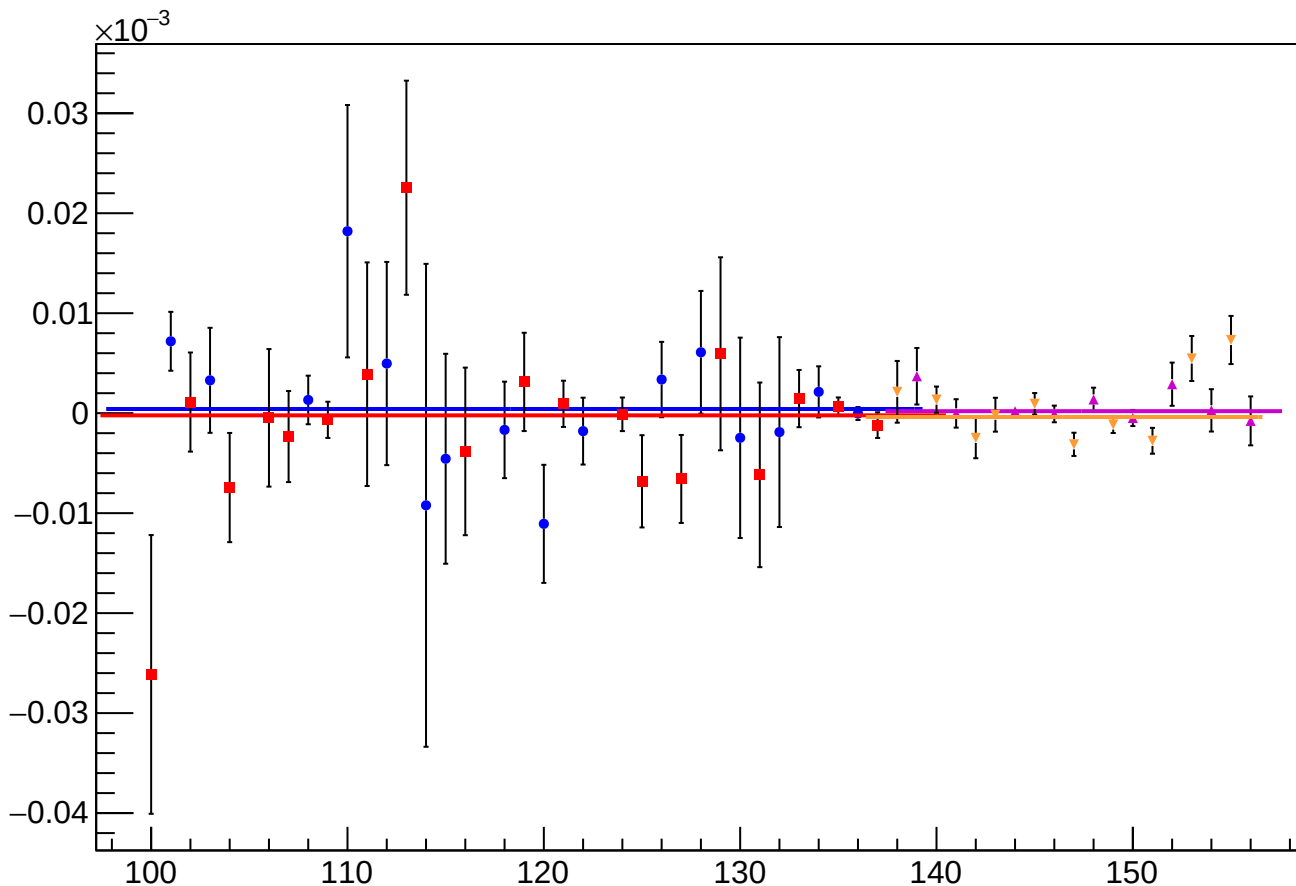
Right: 23.477+/-0.005 χ^2/NDF : 5310004.0/34

In: 18.773+/-0.004 χ^2/NDF : 4000946.6/24

Out: 17.988+/-0.004 χ^2/NDF : 4810131.1/28

All: 18.361+/-0.003 χ^2/NDF : 8833114.0/53

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 31.7/9$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.9/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 5.1/8$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 38.2/18$

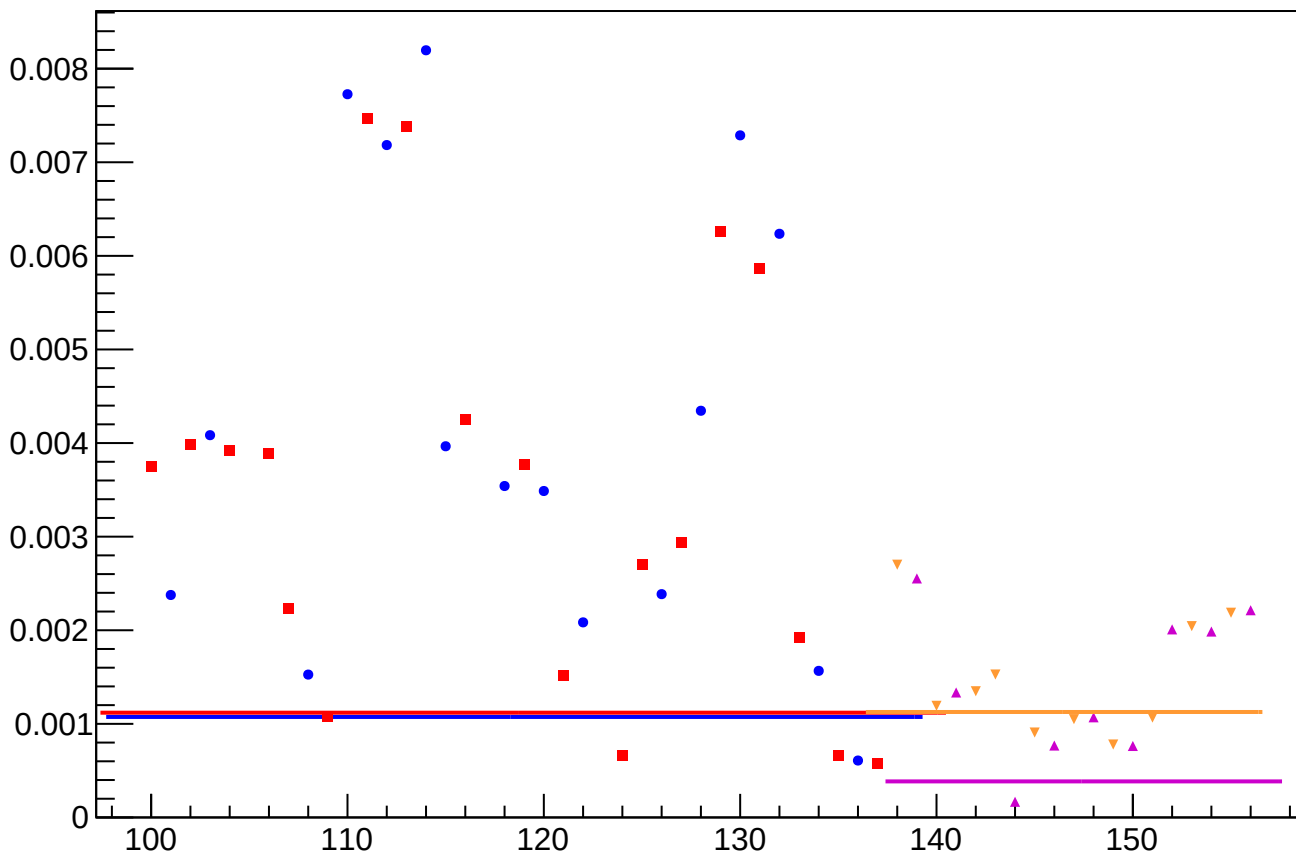
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 33.8/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 20.5/24$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 49.7/28$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 72.0/53$

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 :1807954.9/9

Right Out: 0.001+/-0.000 χ^2/NDF : 6796343.2/18

Left In: 0.000+/-0.000 χ^2/NDF :8465391.7/8

Left: 0.001+/-0.000 χ^2/NDF : 14856555.5/18

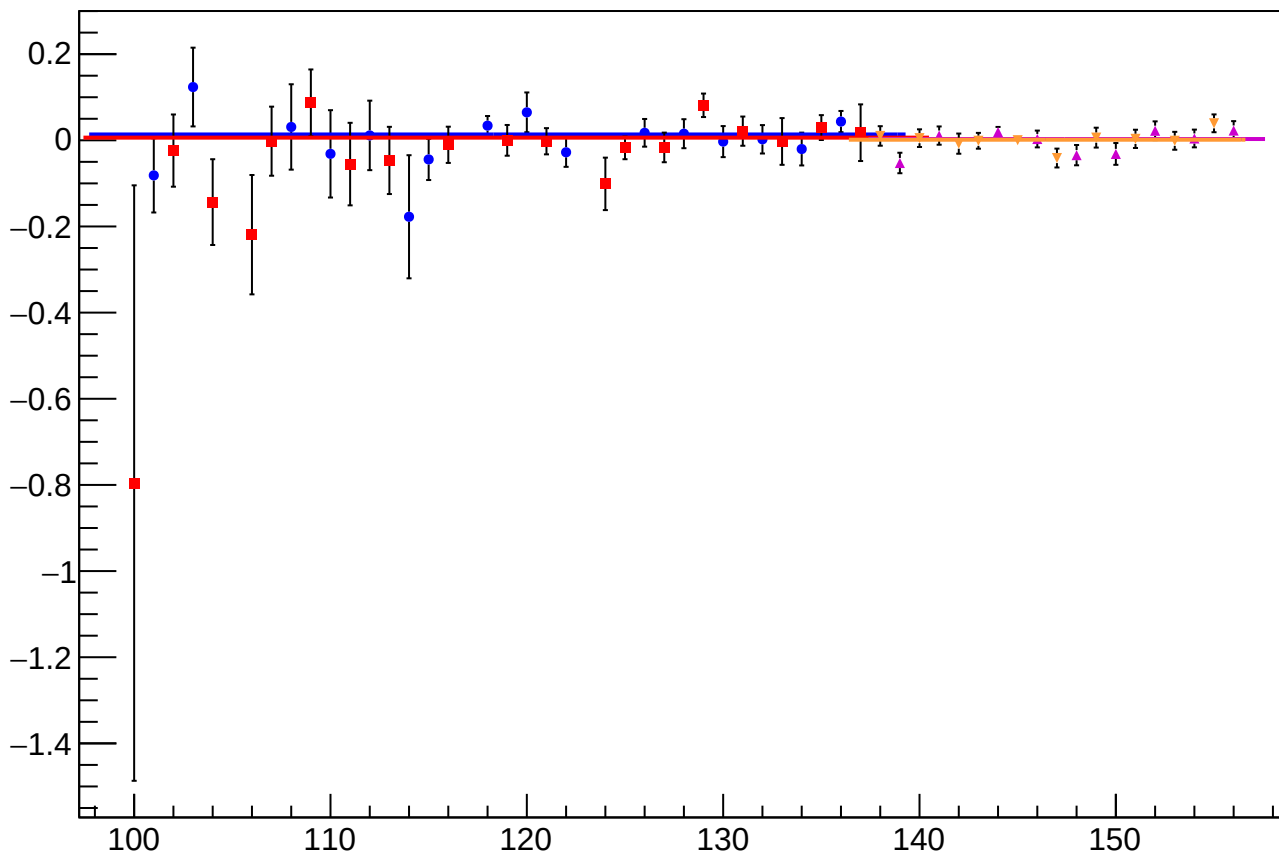
Right: 0.001+/-0.000 χ^2/NDF : 13848160.8/34

In: 0.000+/-0.000 χ^2/NDF :18116085.0/24

Out: 0.001+/-0.000 χ^2/NDF :8604517.9/28

All: 0.001+/-0.000 χ^2/NDF : 31863609.6/53

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: 0.001 $\pm$ 0.006 χ^2 /NDF:7.6/9

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.003 $\pm$ 0.006 χ^2 /NDF:13.5/8

Left: 0.002 $\pm$ 0.004 χ^2 /NDF: 21.1/18

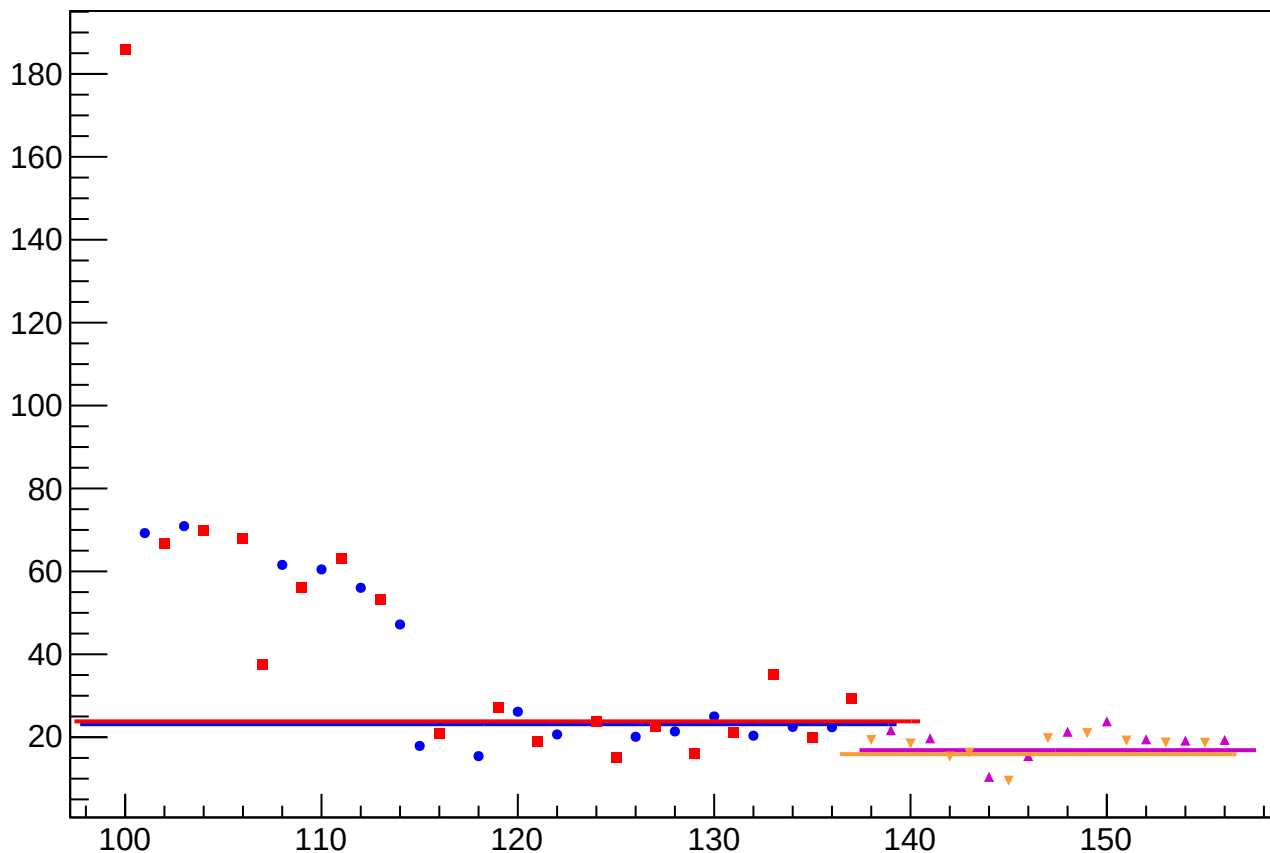
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:26.6/24

Out: 0.003 $\pm$ 0.005 χ^2 /NDF:29.2/28

All: 0.004 $\pm$ 0.004 χ^2 /NDF: 56.1/53

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: 15.916+/-0.004 χ^2/NDF : 1000370.7/9

Right Out: 23.824+/-0.007 χ^2/NDF : 2898863.9/18

Left In: 16.874+/-0.005 χ^2/NDF : 1028883.0/8

Left: 16.358+/-0.003 χ^2/NDF : 2052772.1/18

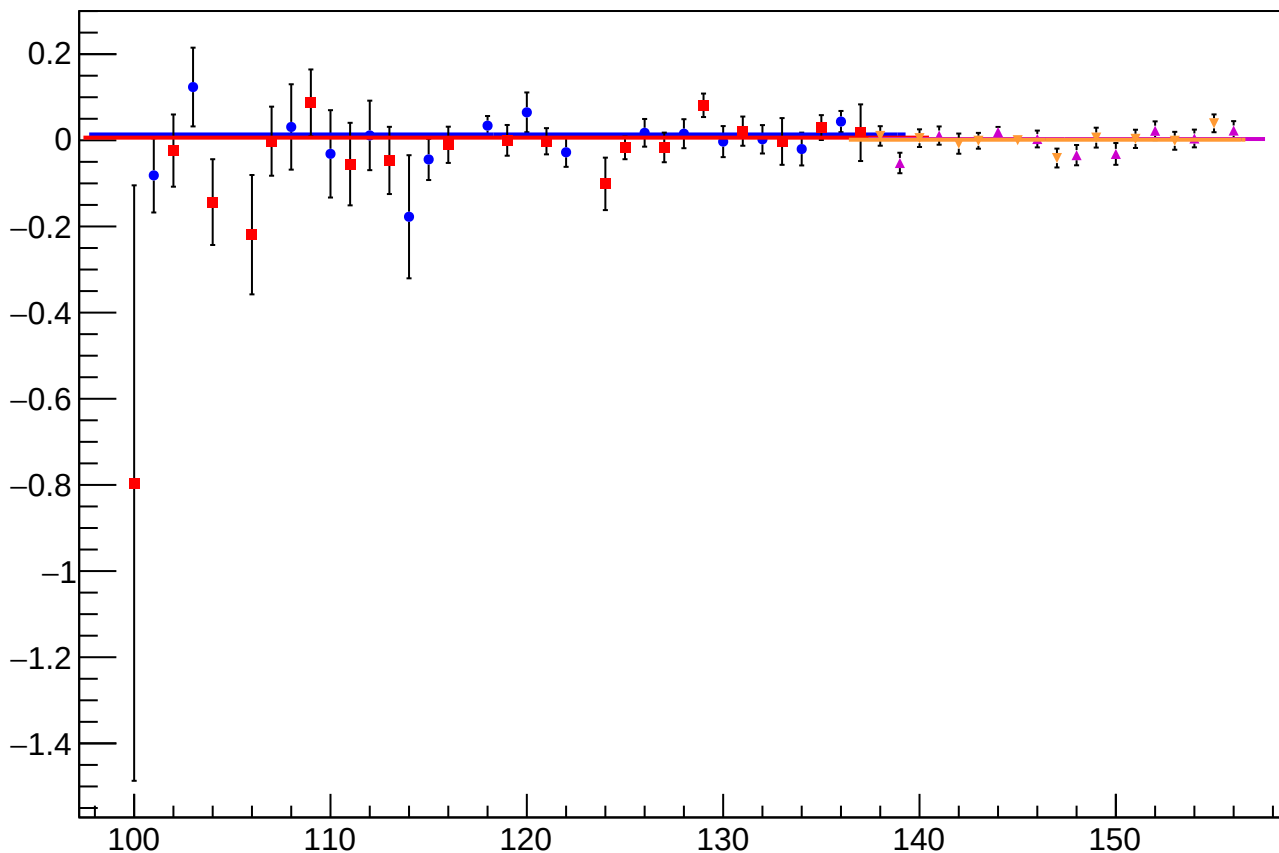
Right: 23.476+/-0.005 χ^2/NDF : 5309985.6/34

In: 18.773+/-0.004 χ^2/NDF : 4000717.7/24

Out: 17.988+/-0.004 χ^2/NDF : 4810040.1/28

All: 18.361+/-0.003 χ^2/NDF : 8832788.1/53

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: 0.001 $\pm$ 0.006 χ^2 /NDF: 7.6/9

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.003 $\pm$ 0.006 χ^2 /NDF: 13.5/8

Left: 0.002 $\pm$ 0.004 χ^2 /NDF: 21.1/18

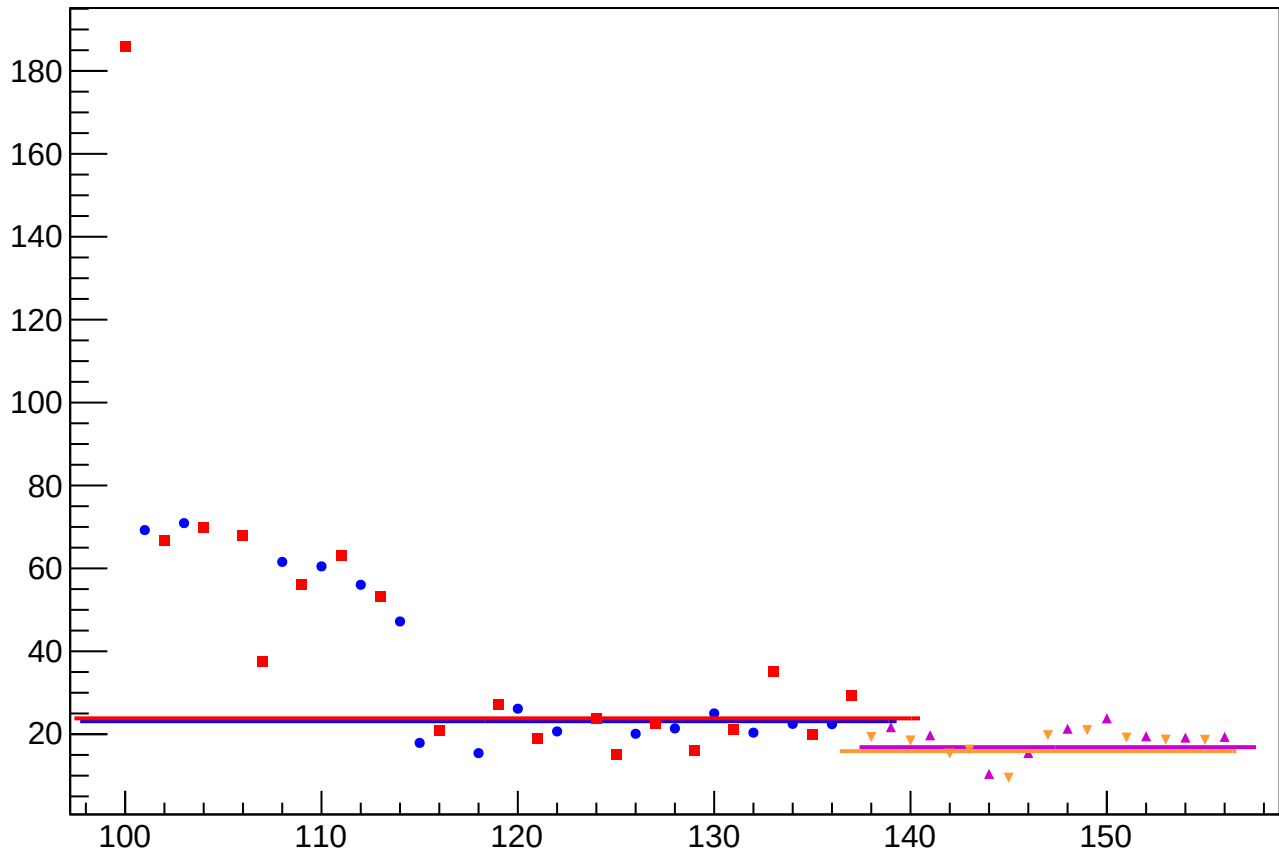
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF: 26.6/24

Out: 0.003 $\pm$ 0.005 χ^2 /NDF: 29.2/28

All: 0.004 $\pm$ 0.004 χ^2 /NDF: 56.1/53

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.144 $\pm$ 0.007 χ^2 /NDF: 2406451.1/15

Left Out: 15.916 $\pm$ 0.004 χ^2 /NDF:1000370.7/9

Right Out: 23.824 $\pm$ 0.007 χ^2 /NDF: 2898863.9/18

Left In: 16.874 $\pm$ 0.005 χ^2 /NDF:1028883.0/8

Left: 16.358 $\pm$ 0.003 χ^2 /NDF: 2052772.1/18

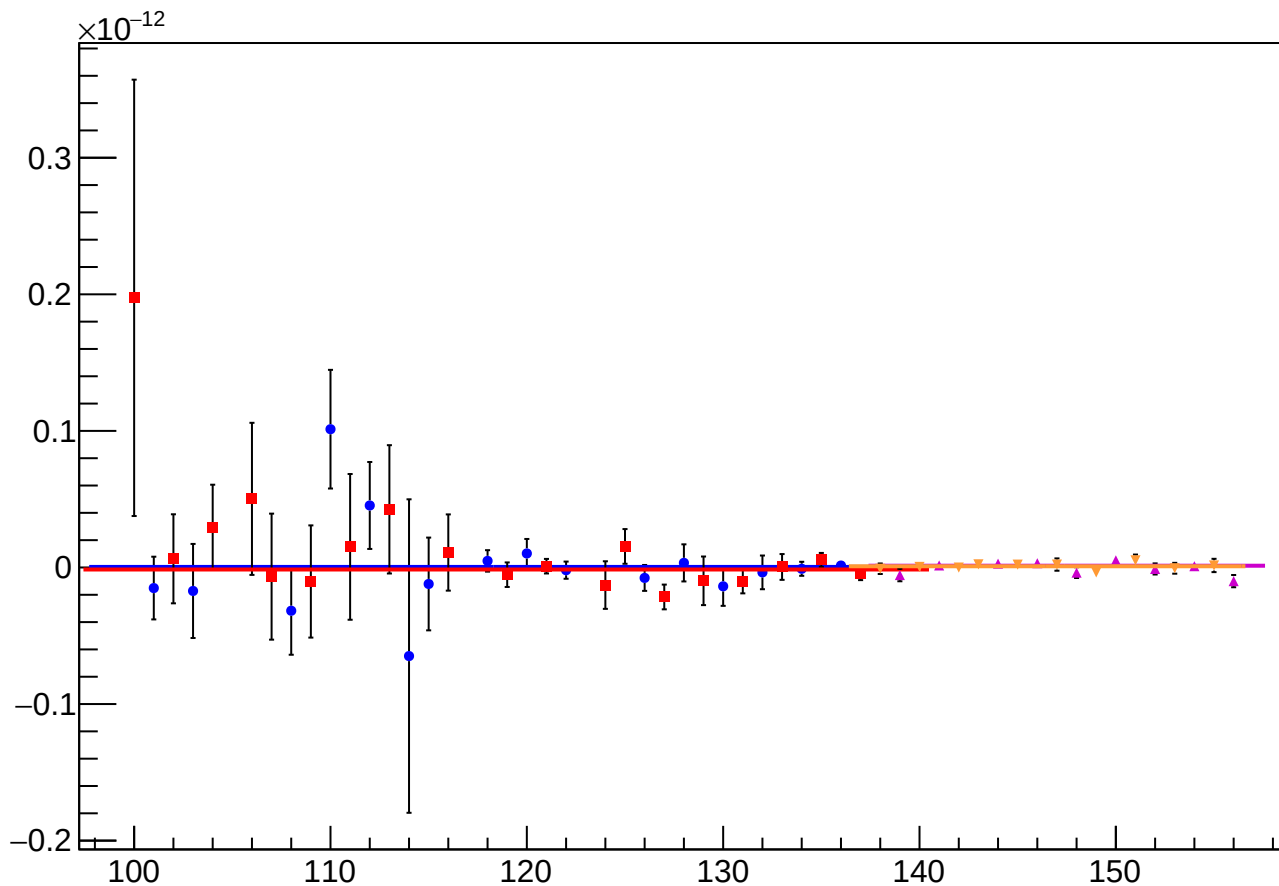
Right: 23.476 $\pm$ 0.005 χ^2 /NDF: 5309985.6/34

In: 18.773 $\pm$ 0.004 χ^2 /NDF:4000717.7/24

Out: 17.988 $\pm$ 0.004 χ^2 /NDF:4810040.1/28

All: 18.361 $\pm$ 0.003 χ^2 /NDF: 8832788.1/53

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 : 4.0/9

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 14.0/8

Left: 0.000+/-0.000 χ^2/NDF : 18.1/18

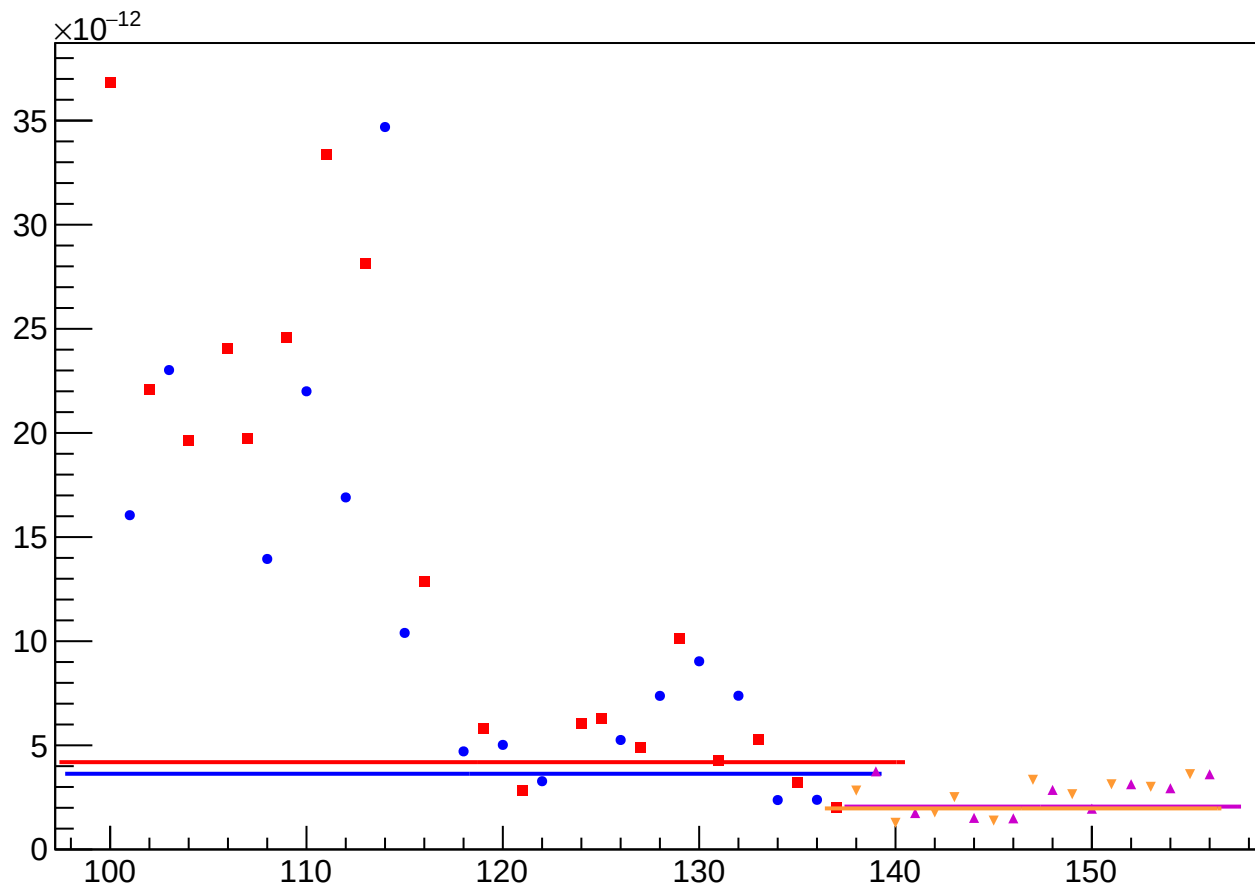
Right: -0.000+/-0.000 χ^2/NDF : 28.9/34

In: 0.000+/-0.000 χ^2/NDF : 27.1/24

Out: 0.000+/-0.000 χ^2/NDF : 20.5/28

All: 0.000+/-0.000 χ^2/NDF : 47.8/53

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 :1484126.2/9

Right Out: 0.000+/-0.000 χ^2/NDF : 4454808.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1192833.8/8

Left: 0.000+/-0.000 χ^2/NDF : 2685823.2/18

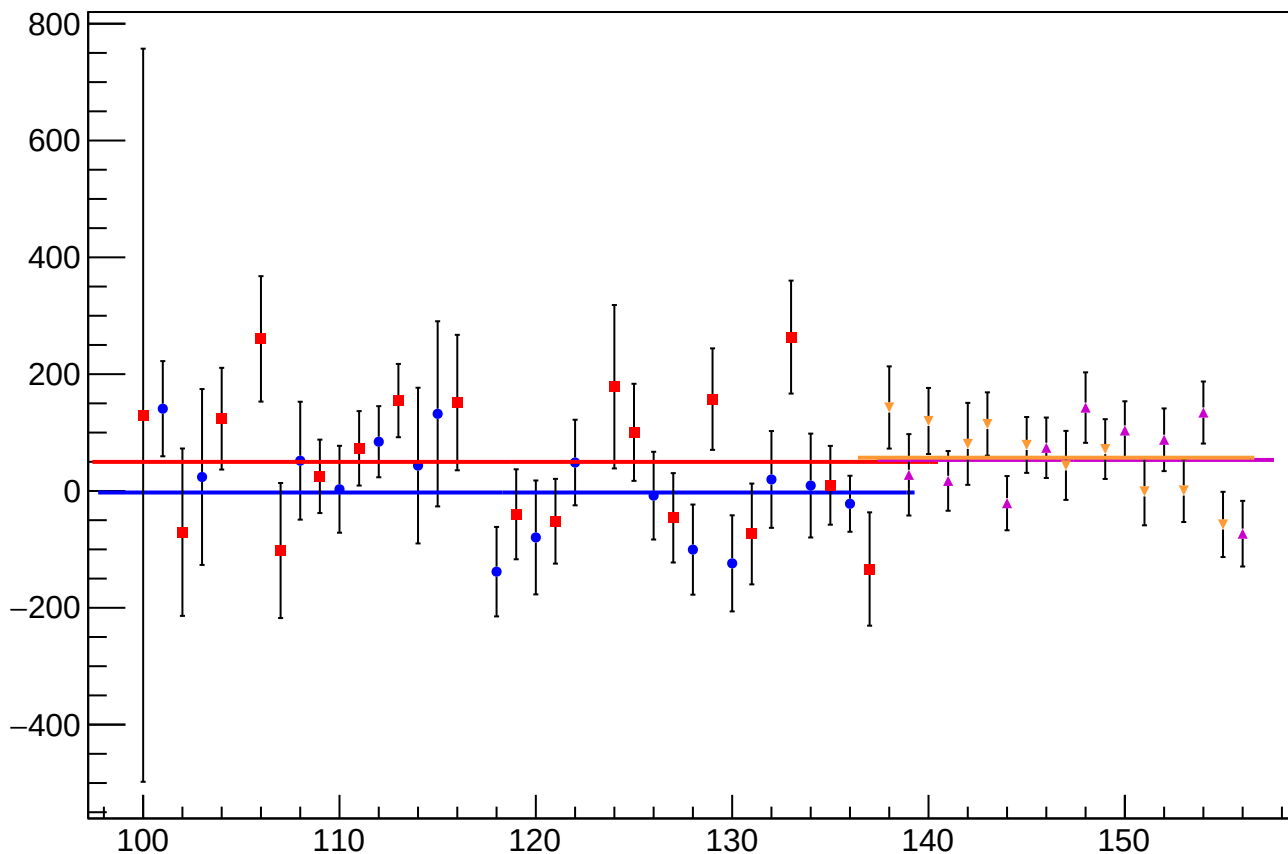
Right: 0.000+/-0.000 χ^2/NDF : 8108622.5/34

In: 0.000+/-0.000 χ^2/NDF :5753767.1/24

Out: 0.000+/-0.000 χ^2/NDF :7483294.9/28

All: 0.000+/-0.000 χ^2/NDF : 13244488.6/53

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: 56.979 ± 17.894 $\chi^2/\text{NDF}: 10.6/9$

Right Out: 49.810 ± 19.621 $\chi^2/\text{NDF}: 29.4/18$

Left In: 53.164 ± 17.905 $\chi^2/\text{NDF}: 14.3/8$

Left: 55.073 ± 12.657 $\chi^2/\text{NDF}: 24.9/18$

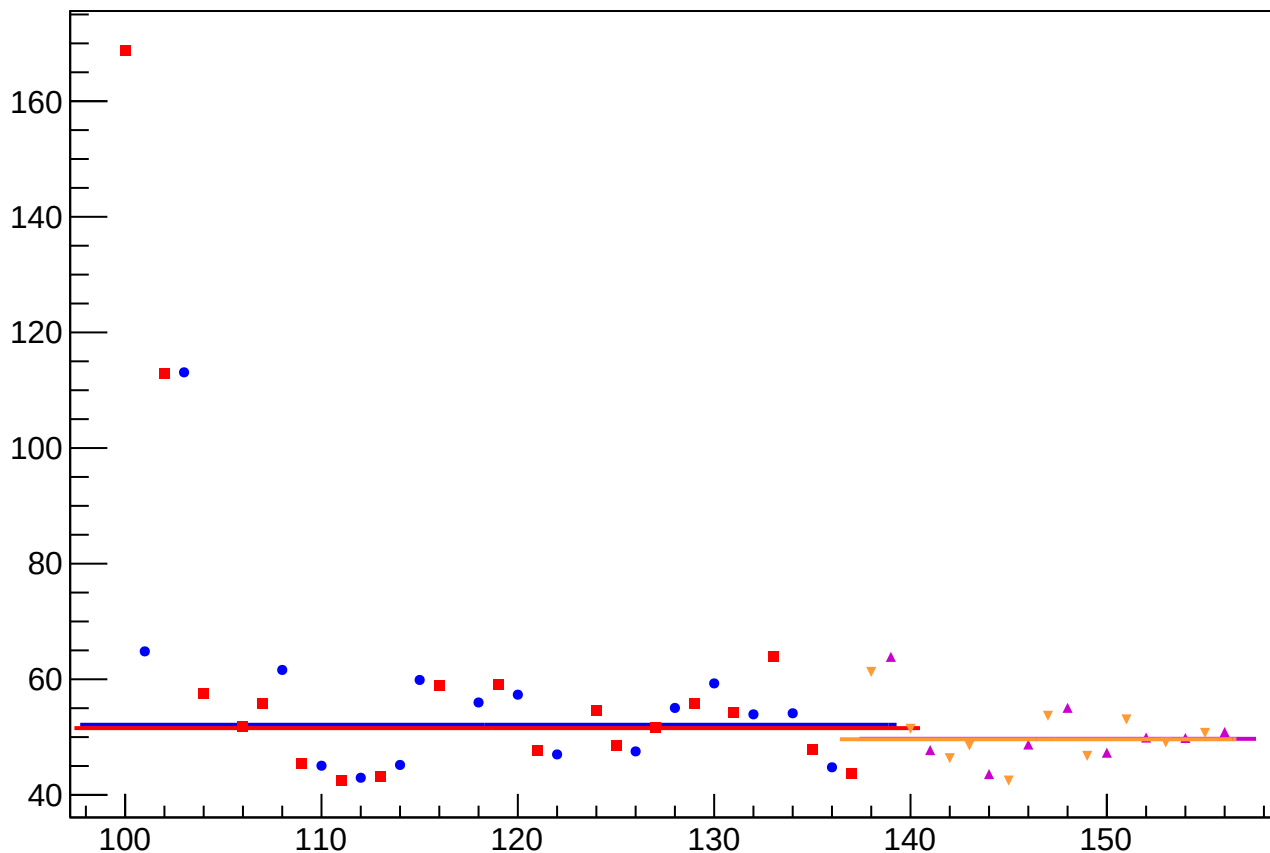
Right: 24.091 ± 14.004 $\chi^2/\text{NDF}: 47.4/34$

In: 28.341 ± 13.338 $\chi^2/\text{NDF}: 33.3/24$

Out: 53.724 ± 13.222 $\chi^2/\text{NDF}: 40.0/28$

All: 41.144 ± 9.390 $\chi^2/\text{NDF}: 75.1/53$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128+/-0.014 χ^2/NDF : 562918.0/15

Left Out: 49.622+/-0.013 χ^2/NDF : 130433.0/9

Right Out: 51.550+/-0.014 χ^2/NDF : 639564.9/18

Left In: 49.699+/-0.013 χ^2/NDF : 142326.5/8

Left: 49.661+/-0.009 χ^2/NDF : 272777.9/18

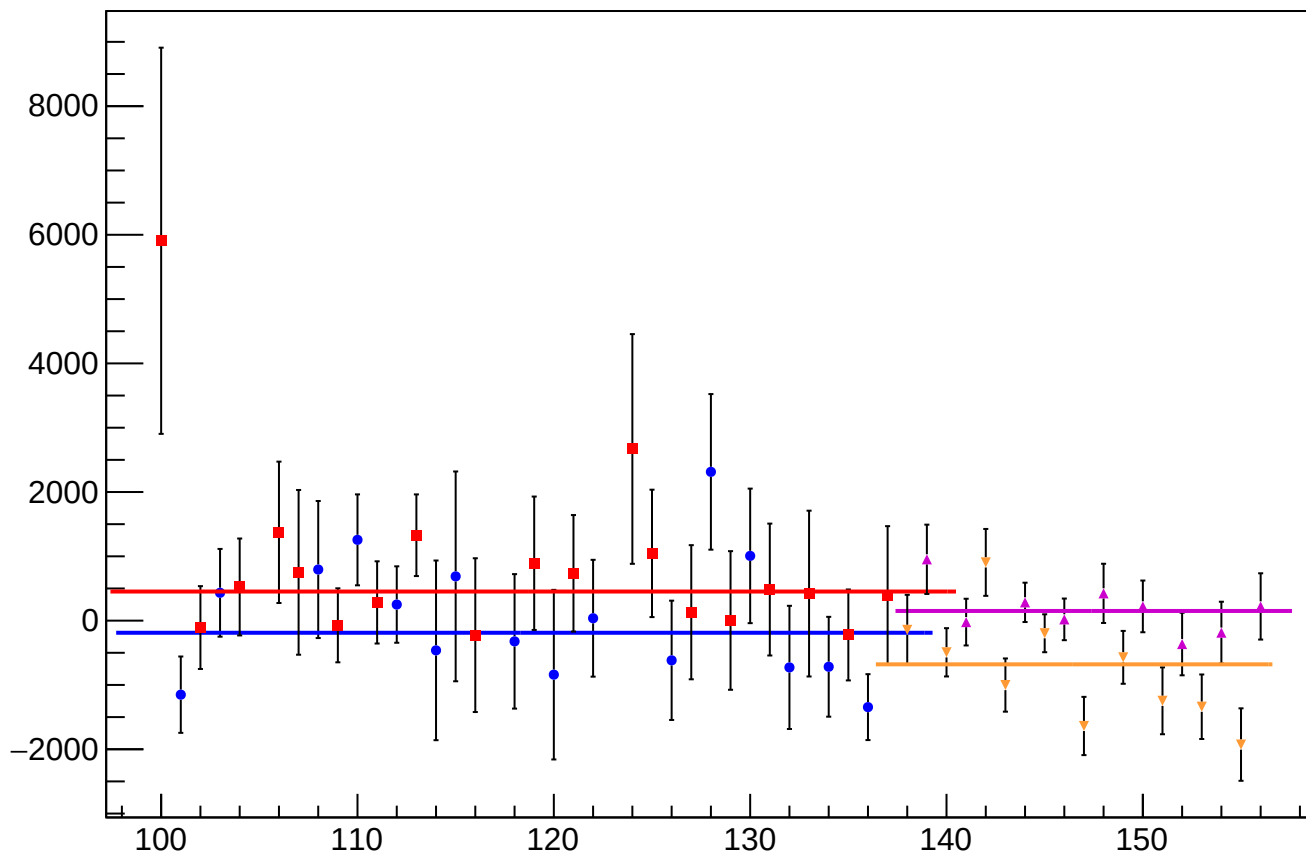
Right: 51.834+/-0.010 χ^2/NDF : 1203336.1/34

In: 50.780+/-0.009 χ^2/NDF : 721628.6/24

Out: 50.498+/-0.009 χ^2/NDF : 780534.2/28

All: 50.638+/-0.007 χ^2/NDF : 1502616.1/53

asym_sam_1357_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.563+/-205.811 χ^2/NDF : 21.4/15

Left Out: -679.744+/-137.195 χ^2/NDF :26.2/9

Right Out: 452.540+/-203.918 χ^2/NDF : 11.3/18

Left In: 150.358+/-135.482 χ^2/NDF :4.8/8

Left: -259.478+/-96.400 χ^2/NDF : 49.5/18

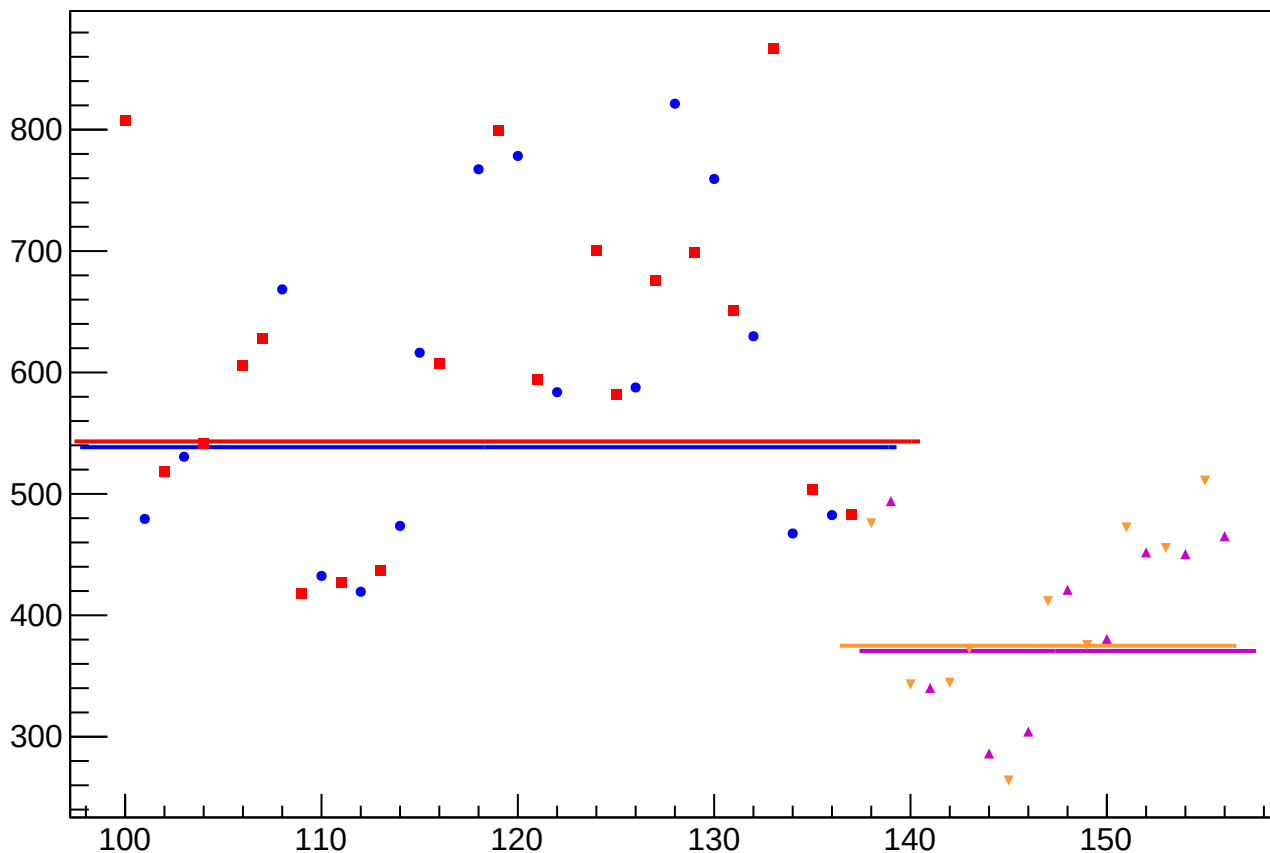
Right: 134.950+/-144.856 χ^2/NDF : 37.6/34

In: 47.893+/-113.164 χ^2/NDF :28.1/24

Out: -326.920+/-113.830 χ^2/NDF :58.7/28

All: -138.413+/-80.253 χ^2/NDF : 92.2/53

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: 374.932 $\pm$ 0.097 χ^2 /NDF:624913.5/9

Right Out: 543.242 $\pm$ 0.144 χ^2 /NDF: 637115.5/18

Left In: 370.655 $\pm$ 0.096 χ^2 /NDF:558752.4/8

Left: 372.766 $\pm$ 0.068 χ^2 /NDF: 1184650.2/18

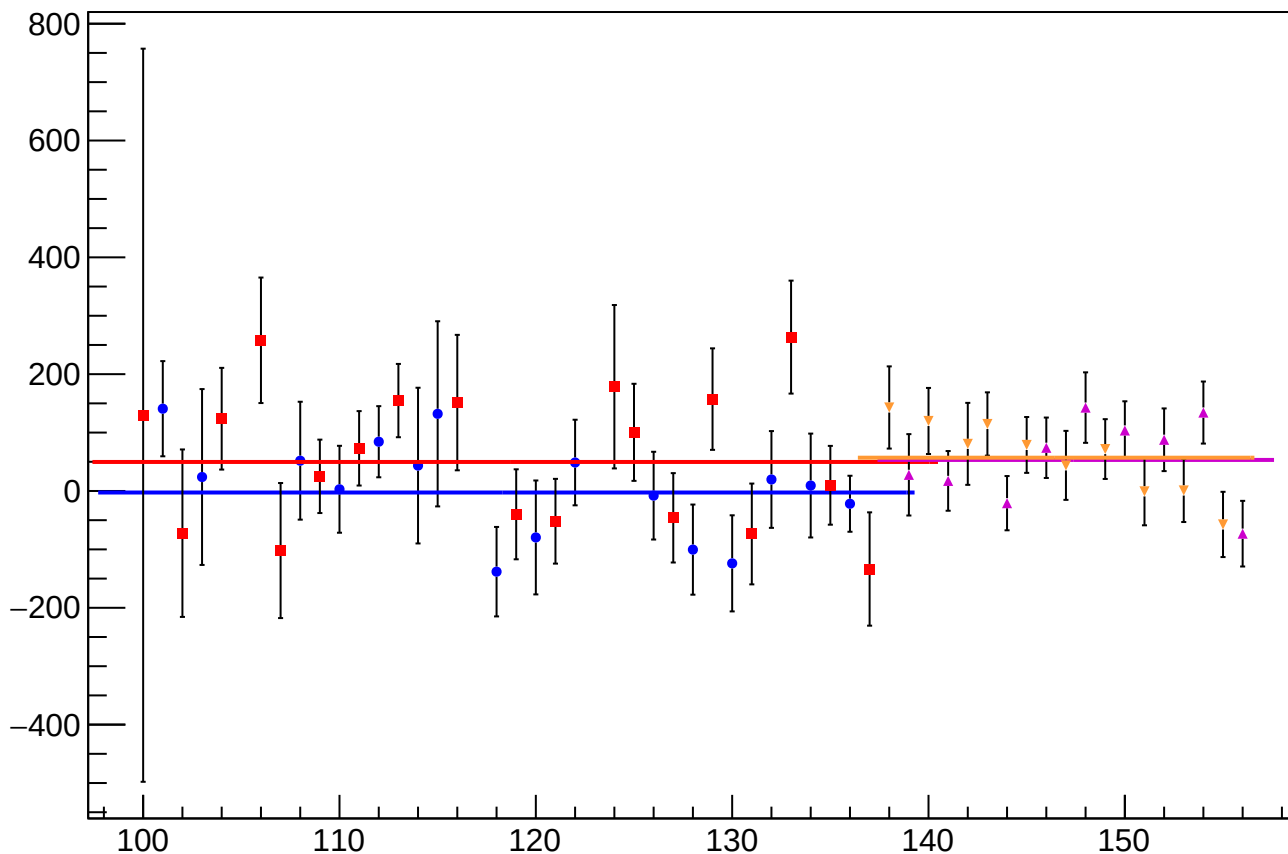
Right: 540.877 $\pm$ 0.102 χ^2 /NDF: 1251653.7/34

In: 421.389 $\pm$ 0.080 χ^2 /NDF:2100424.9/24

Out: 427.378 $\pm$ 0.080 χ^2 /NDF:2199970.9/28

All: 424.366 $\pm$ 0.057 χ^2 /NDF: 4303180.3/53

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: 56.982 ± 17.894 $\chi^2/\text{NDF}: 10.6/9$

Right Out: 49.694 ± 19.622 $\chi^2/\text{NDF}: 29.3/18$

Left In: 53.164 ± 17.905 $\chi^2/\text{NDF}: 14.3/8$

Left: 55.074 ± 12.657 $\chi^2/\text{NDF}: 24.9/18$

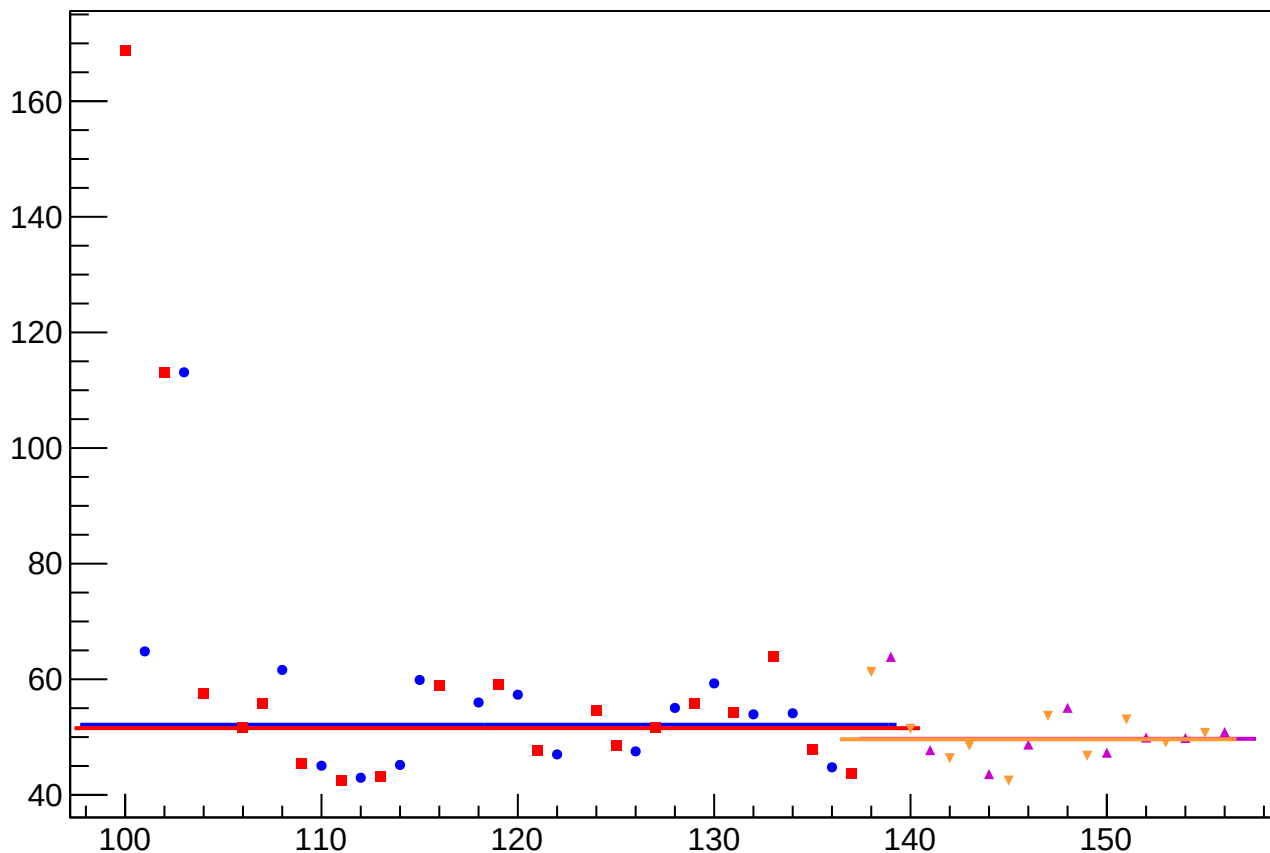
Right: 24.030 ± 14.005 $\chi^2/\text{NDF}: 47.4/34$

In: 28.339 ± 13.338 $\chi^2/\text{NDF}: 33.3/24$

Out: 53.673 ± 13.222 $\chi^2/\text{NDF}: 39.9/28$

All: 41.117 ± 9.390 $\chi^2/\text{NDF}: 75.0/53$

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: 49.622 $\pm$ 0.013 χ^2 /NDF: 130433.0/9

Right Out: 51.540 $\pm$ 0.014 χ^2 /NDF: 639784.7/18

Left In: 49.699 $\pm$ 0.013 χ^2 /NDF: 142326.5/8

Left: 49.661 $\pm$ 0.009 χ^2 /NDF: 272777.9/18

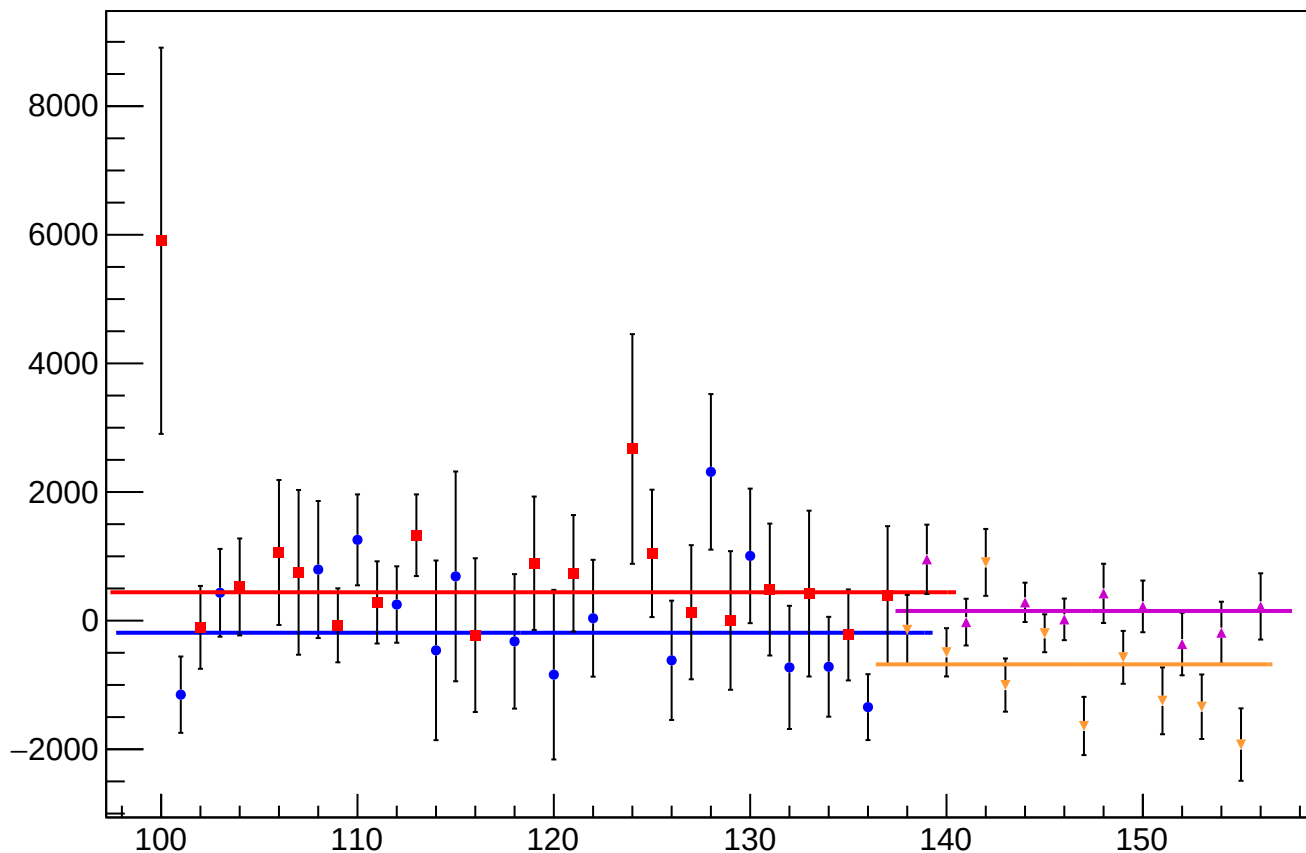
Right: 51.828 $\pm$ 0.010 χ^2 /NDF: 1203588.8/34

In: 50.780 $\pm$ 0.009 χ^2 /NDF: 721630.9/24

Out: 50.493 $\pm$ 0.009 χ^2 /NDF: 780641.4/28

All: 50.635 $\pm$ 0.007 χ^2 /NDF: 1502740.7/53

asym_sam_1357_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541+/-205.813 χ^2/NDF : 21.4/15

Left Out: -679.740+/-137.195 χ^2/NDF : 26.2/9

Right Out: 441.171+/-204.111 χ^2/NDF : 10.9/18

Left In: 150.361+/-135.482 χ^2/NDF : 4.8/8

Left: -259.475+/-96.400 χ^2/NDF : 49.5/18

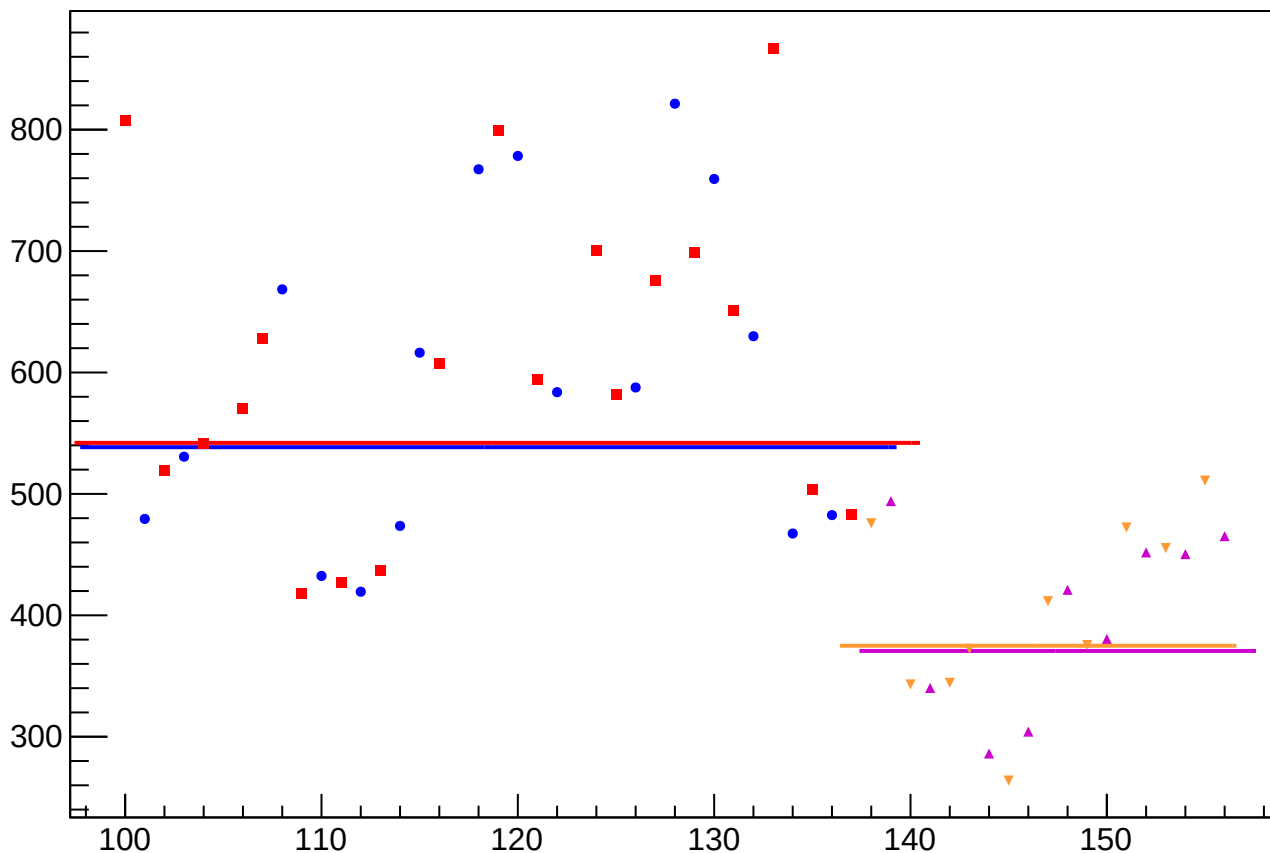
Right: 128.930+/-144.926 χ^2/NDF : 37.0/34

In: 47.903+/-113.164 χ^2/NDF : 28.1/24

Out: -330.914+/-113.863 χ^2/NDF : 57.8/28

All: -140.338+/-80.265 χ^2/NDF : 91.5/53

asym_sam_1357_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.473 $\pm$ 0.146 χ^2 /NDF: 613991.3/15

Left Out: 374.932 $\pm$ 0.097 χ^2 /NDF:624916.5/9

Right Out: 542.025 $\pm$ 0.144 χ^2 /NDF: 631559.6/18

Left In: 370.655 $\pm$ 0.096 χ^2 /NDF:558750.7/8

Left: 372.766 $\pm$ 0.068 χ^2 /NDF: 1184651.5/18

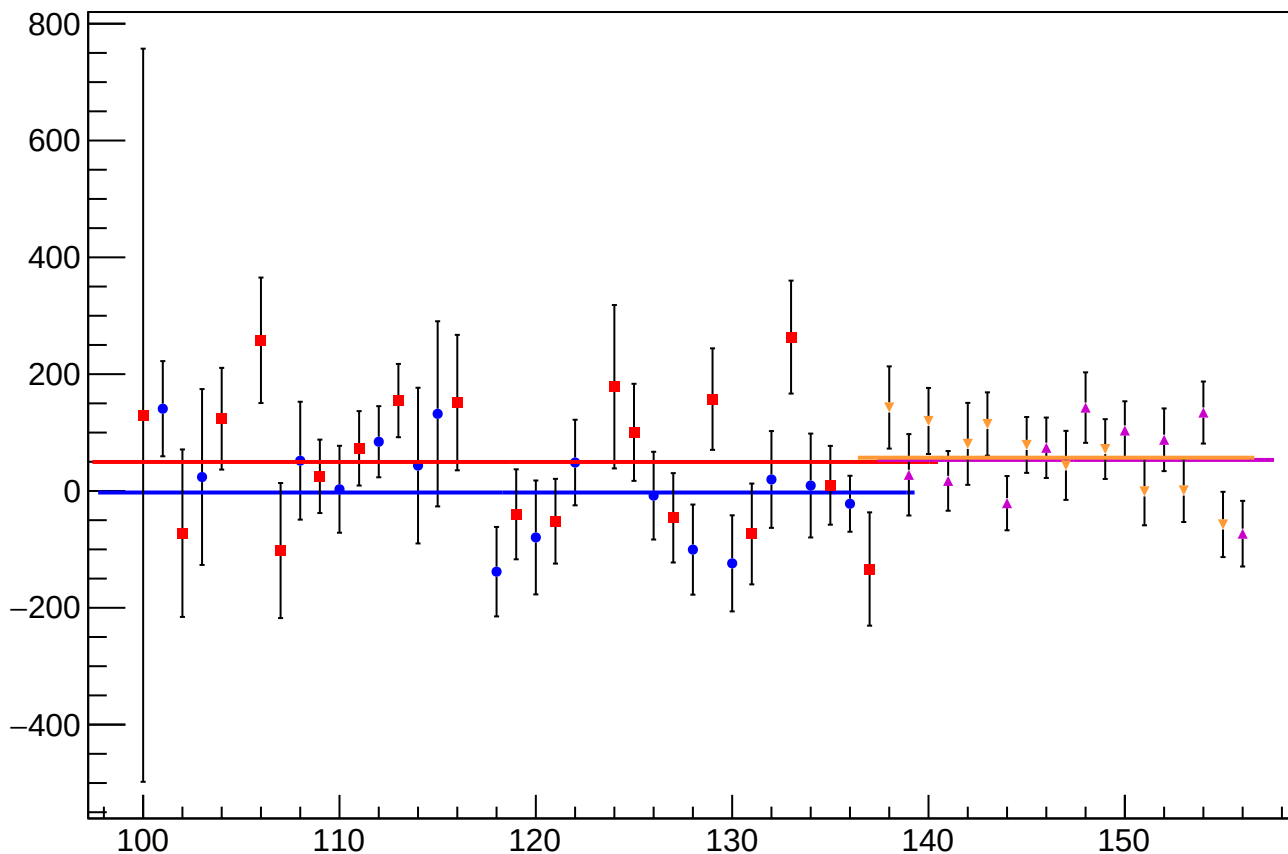
Right: 540.264 $\pm$ 0.102 χ^2 /NDF: 1245851.3/34

In: 421.390 $\pm$ 0.080 χ^2 /NDF:2100465.6/24

Out: 426.931 $\pm$ 0.081 χ^2 /NDF:2179708.2/28

All: 424.143 $\pm$ 0.057 χ^2 /NDF: 4282556.7/53

eigen_cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.618 ± 19.995 χ^2/NDF : 14.6/15

Left Out: 56.982 ± 17.894 χ^2/NDF : 10.6/9

Right Out: 49.694 ± 19.622 χ^2/NDF : 29.3/18

Left In: 53.164 ± 17.905 χ^2/NDF : 14.3/8

Left: 55.074 ± 12.657 χ^2/NDF : 24.9/18

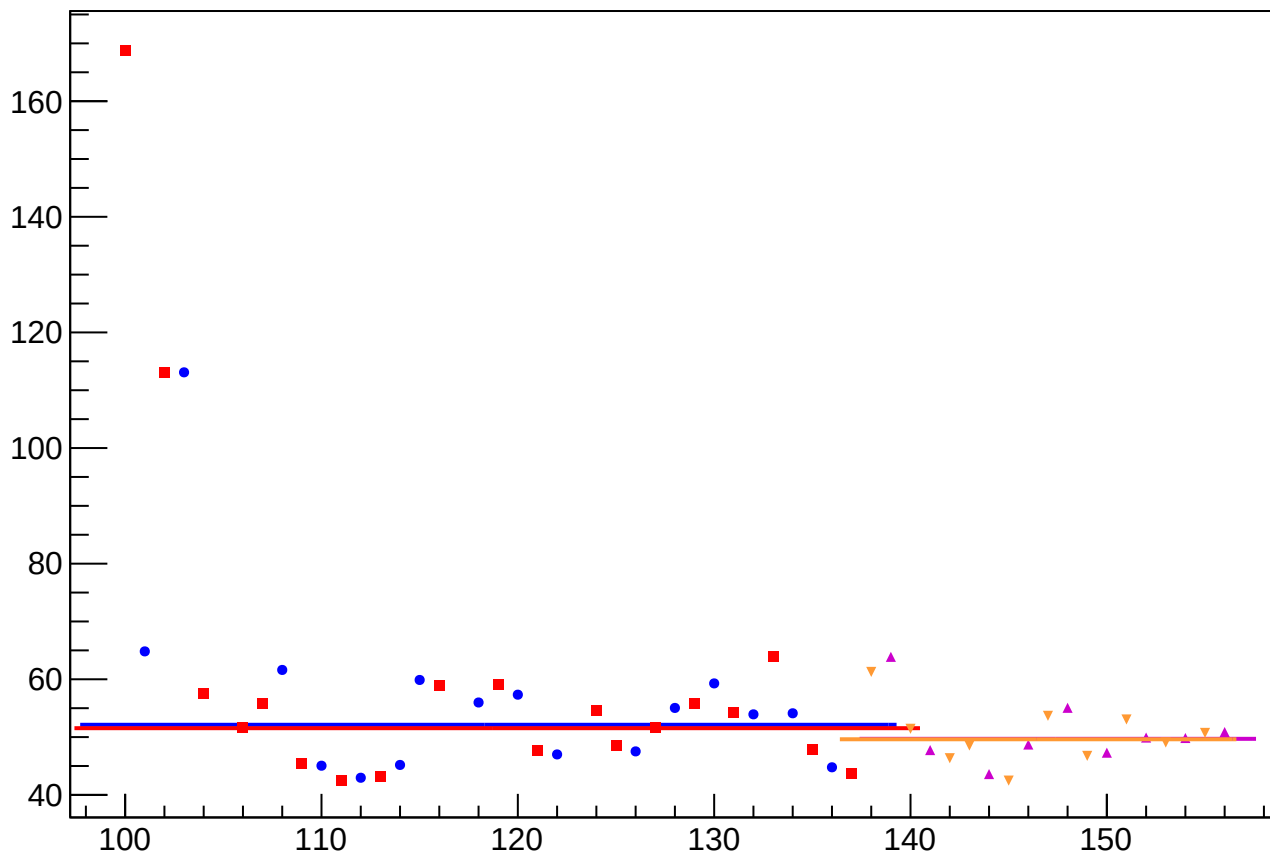
Right: 24.030 ± 14.005 χ^2/NDF : 47.4/34

In: 28.339 ± 13.338 χ^2/NDF : 33.3/24

Out: 53.673 ± 13.222 χ^2/NDF : 39.9/28

All: 41.117 ± 9.390 χ^2/NDF : 75.0/53

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: 49.622 $\pm$ 0.013 χ^2 /NDF:130433.0/9

Right Out: 51.540 $\pm$ 0.014 χ^2 /NDF: 639784.7/18

Left In: 49.699 $\pm$ 0.013 χ^2 /NDF:142326.5/8

Left: 49.661 $\pm$ 0.009 χ^2 /NDF: 272777.9/18

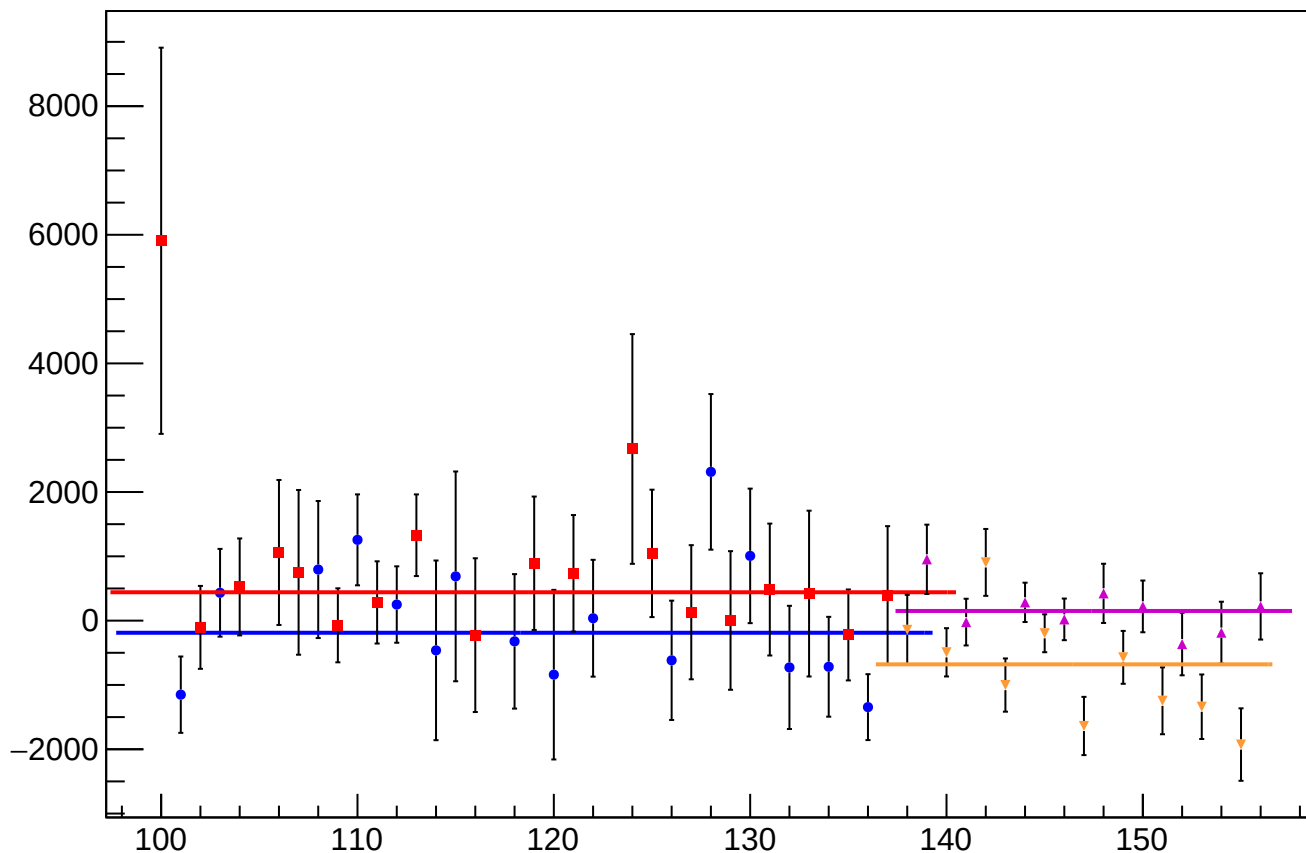
Right: 51.828 $\pm$ 0.010 χ^2 /NDF: 1203588.8/34

In: 50.780 $\pm$ 0.009 χ^2 /NDF:721630.9/24

Out: 50.493 $\pm$ 0.009 χ^2 /NDF:780641.4/28

All: 50.635 $\pm$ 0.007 χ^2 /NDF: 1502740.7/53

asym_sam_1357_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541 ± 205.813 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -679.740 ± 137.195 $\chi^2/\text{NDF}: 26.2/9$

Right Out: 441.171 ± 204.111 $\chi^2/\text{NDF}: 10.9/18$

Left In: 150.361 ± 135.482 $\chi^2/\text{NDF}: 4.8/8$

Left: -259.475 ± 96.400 $\chi^2/\text{NDF}: 49.5/18$

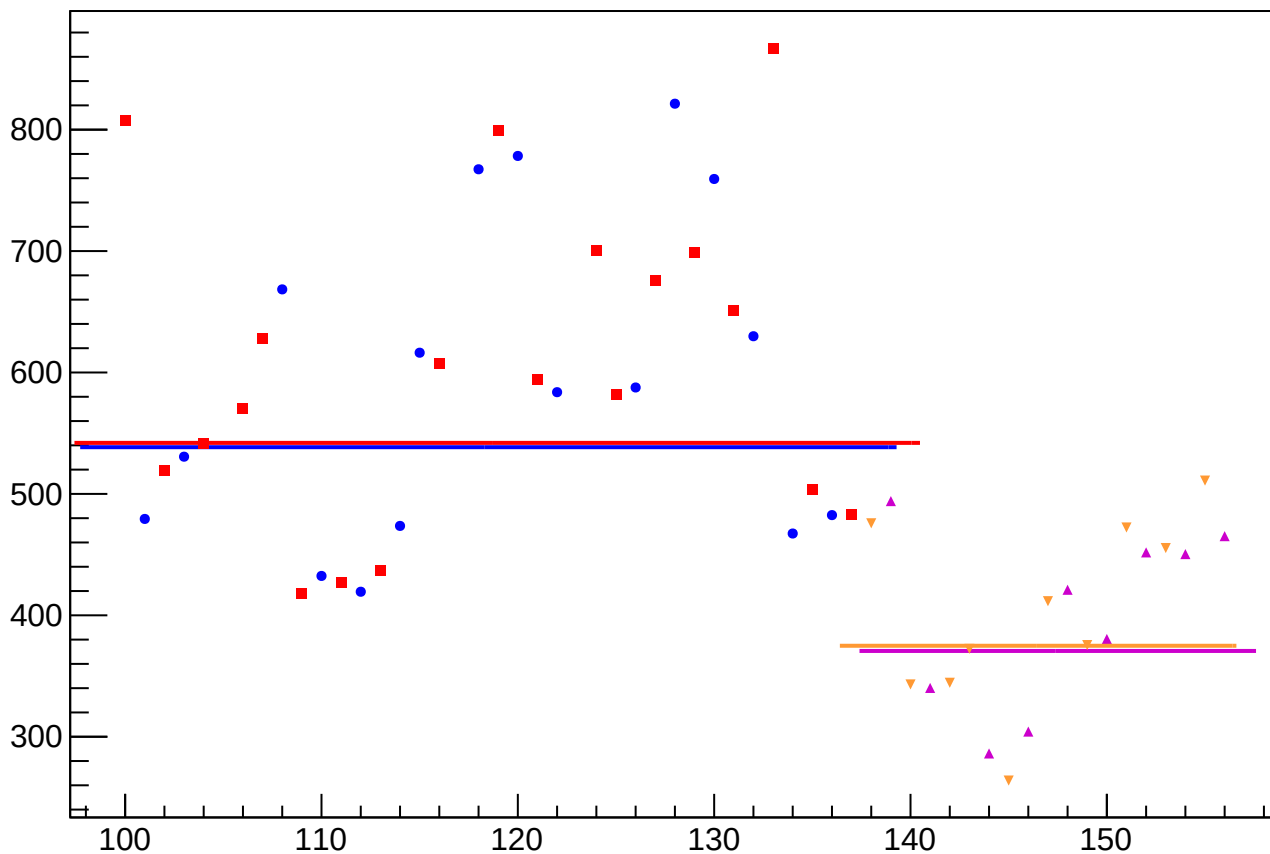
Right: 128.930 ± 144.926 $\chi^2/\text{NDF}: 37.0/34$

In: 47.903 ± 113.164 $\chi^2/\text{NDF}: 28.1/24$

Out: -330.914 ± 113.863 $\chi^2/\text{NDF}: 57.8/28$

All: -140.338 ± 80.265 $\chi^2/\text{NDF}: 91.5/53$

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: 374.932 ± 0.097 χ^2/NDF : 624916.5/9

Right Out: 542.025 ± 0.144 χ^2/NDF : 631559.6/18

Left In: 370.655 ± 0.096 χ^2/NDF : 558750.7/8

Left: 372.766 ± 0.068 χ^2/NDF : 1184651.5/18

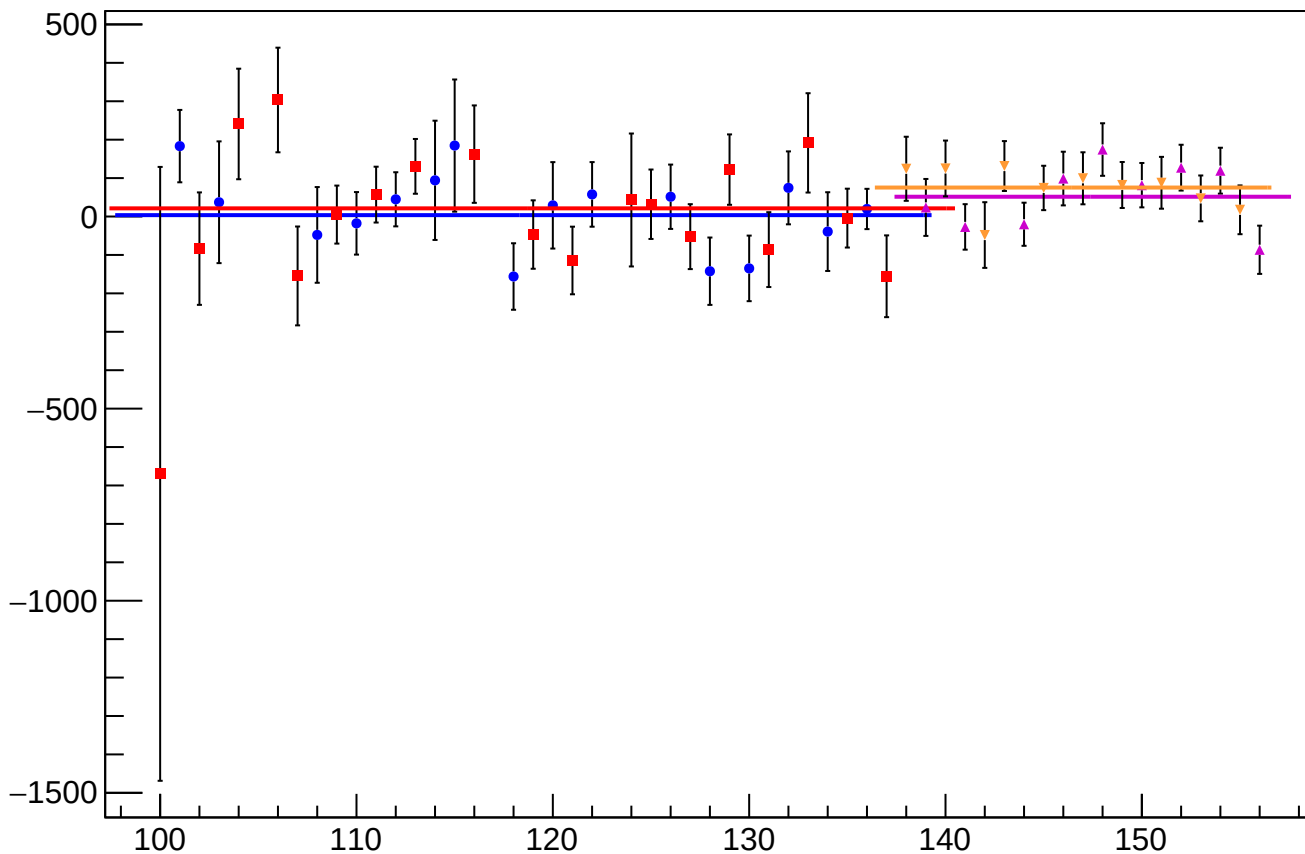
Right: 540.264 ± 0.102 χ^2/NDF : 1245851.3/34

In: 421.390 ± 0.080 χ^2/NDF : 2100465.6/24

Out: 426.931 ± 0.081 χ^2/NDF : 2179708.2/28

All: 424.143 ± 0.057 χ^2/NDF : 4282556.7/53

dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 3.597 ± 22.480 χ^2/NDF : 16.1/15

Left Out: 75.417 ± 21.064 χ^2/NDF : 4.9/9

Right Out: 21.253 ± 22.769 χ^2/NDF : 24.4/18

Left In: 51.497 ± 20.764 χ^2/NDF : 15.2/8

Left: 63.286 ± 14.787 χ^2/NDF : 20.8/18

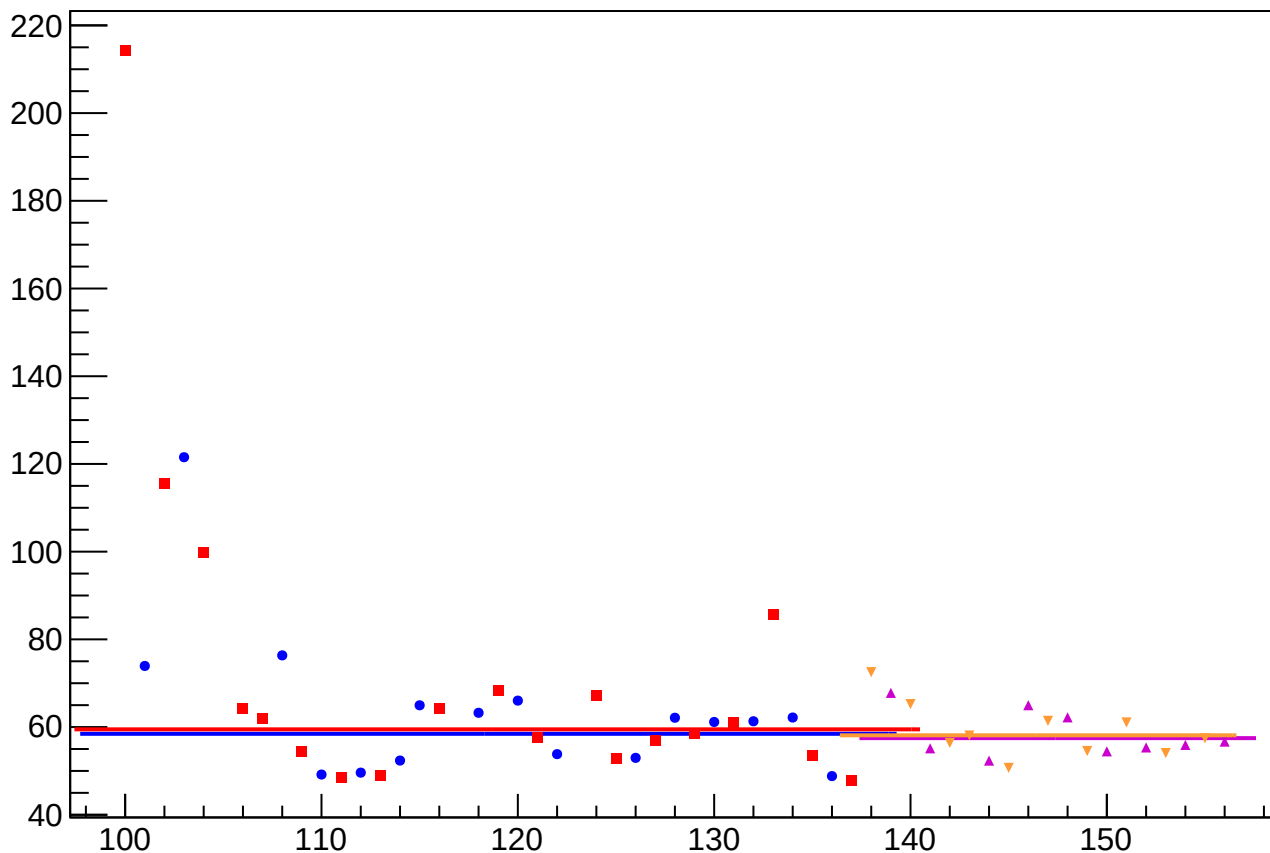
Right: 12.313 ± 15.997 χ^2/NDF : 40.9/34

In: 29.445 ± 15.253 χ^2/NDF : 33.8/24

Out: 50.439 ± 15.462 χ^2/NDF : 32.3/28

All: 39.799 ± 10.859 χ^2/NDF : 67.1/53

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: 58.126 $\pm$ 0.015 χ^2 /NDF: 137874.0/9

Right Out: 59.484 $\pm$ 0.016 χ^2 /NDF: 784880.1/18

Left In: 57.480 $\pm$ 0.015 χ^2 /NDF: 101005.9/8

Left: 57.798 $\pm$ 0.010 χ^2 /NDF: 239835.3/18

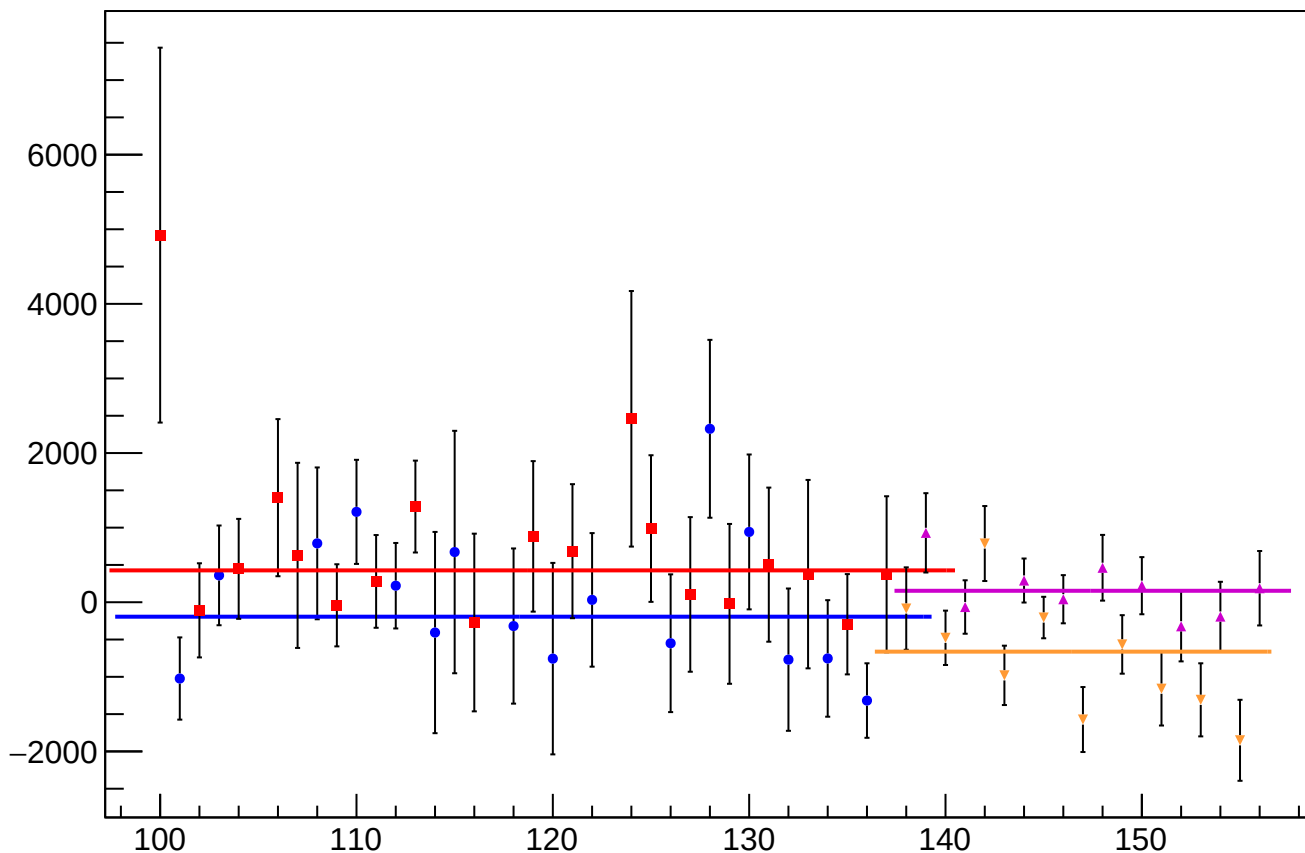
Right: 58.968 $\pm$ 0.011 χ^2 /NDF: 1369891.4/34

In: 57.933 $\pm$ 0.011 χ^2 /NDF: 686065.2/24

Out: 58.752 $\pm$ 0.011 χ^2 /NDF: 926587.4/28

All: 58.337 $\pm$ 0.008 χ^2 /NDF: 1615495.4/53

asym_sam_1357_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899 $\pm$ 200.604 χ^2 /NDF: 20.8/15

Left Out: -662.426 $\pm$ 131.926 χ^2 /NDF:25.0/9

Right Out: 426.977 $\pm$ 197.005 χ^2 /NDF: 11.3/18

Left In: 153.475 $\pm$ 131.869 χ^2 /NDF:4.9/8

Left: -254.300 $\pm$ 93.266 χ^2 /NDF: 49.1/18

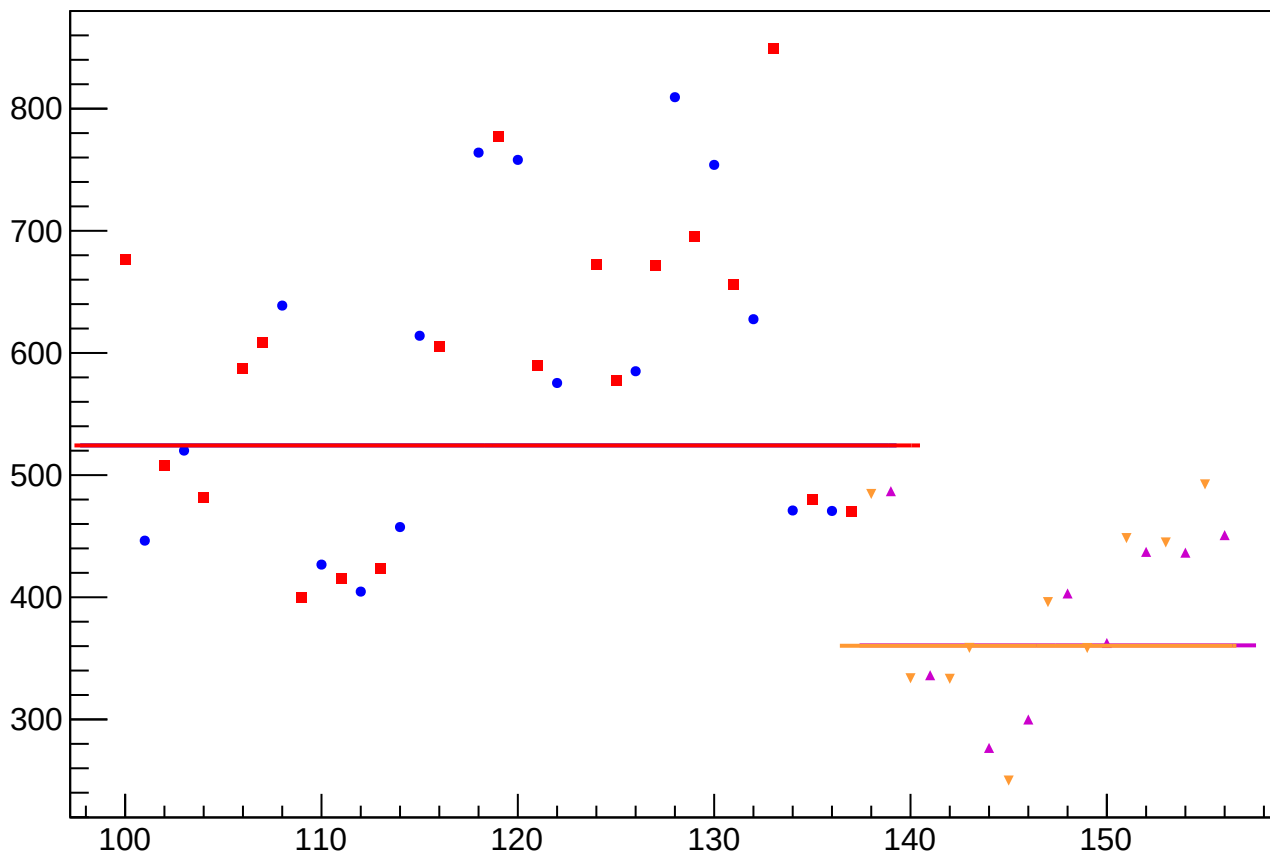
Right: 122.158 $\pm$ 140.559 χ^2 /NDF: 37.0/34

In: 48.659 $\pm$ 110.193 χ^2 /NDF:27.8/24

Out: -325.143 $\pm$ 109.618 χ^2 /NDF:57.4/28

All: -139.221 $\pm$ 77.714 χ^2 /NDF: 91.0/53

asym_sam_1357_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 524.326 $\pm$ 0.142 χ^2 /NDF: 658488.5/15

Left Out: 360.304 $\pm$ 0.093 χ^2 /NDF: 688105.7/9

Right Out: 524.306 $\pm$ 0.139 χ^2 /NDF: 686061.2/18

Left In: 360.631 $\pm$ 0.093 χ^2 /NDF: 544559.9/8

Left: 360.468 $\pm$ 0.066 χ^2 /NDF: 1232671.8/18

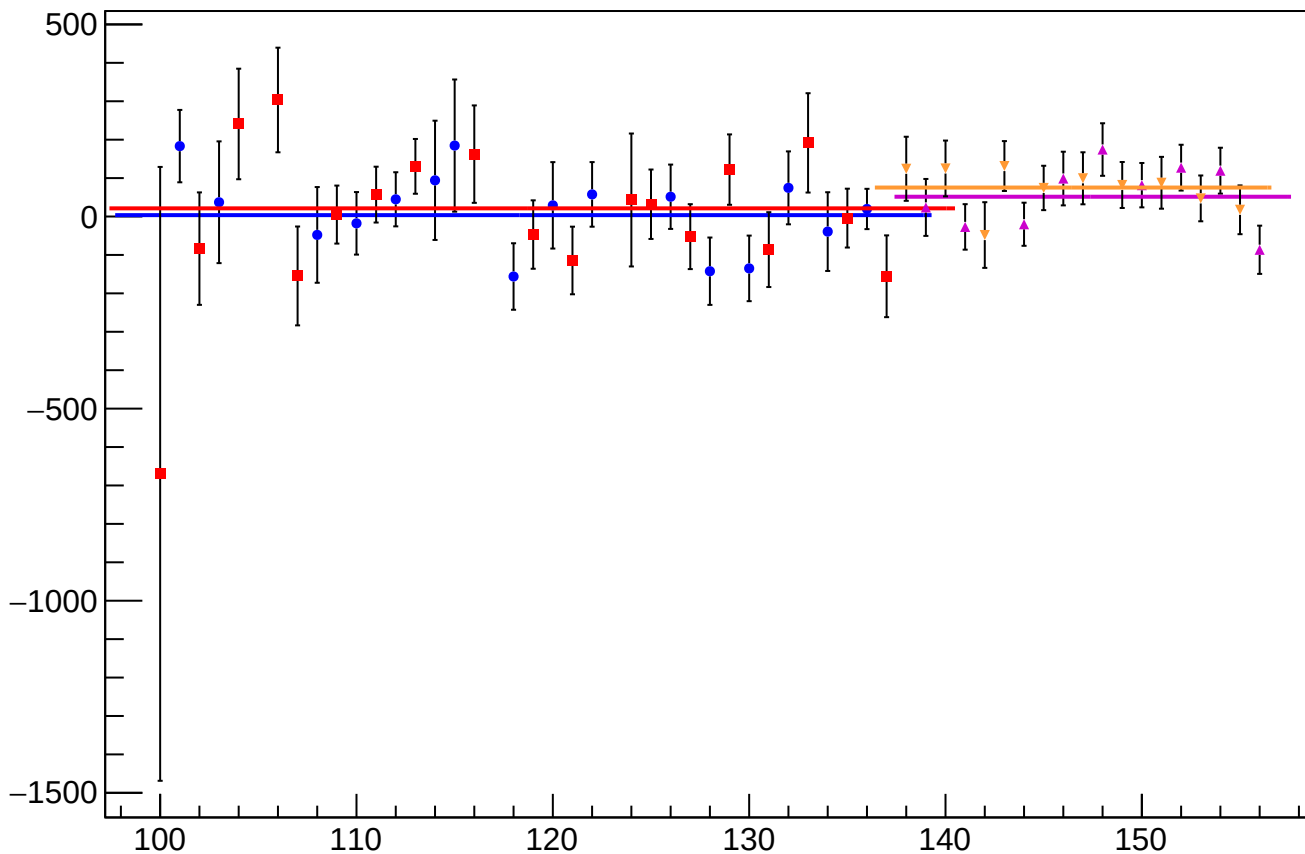
Right: 524.316 $\pm$ 0.099 χ^2 /NDF: 1344549.7/34

In: 410.024 $\pm$ 0.078 χ^2 /NDF: 2132965.1/24

Out: 411.080 $\pm$ 0.078 χ^2 /NDF: 2331083.6/28

All: 410.555 $\pm$ 0.055 χ^2 /NDF: 4464141.0/53

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: 75.418 ± 21.064 χ^2/NDF : 4.9/9

Right Out: 21.251 ± 22.769 χ^2/NDF : 24.4/18

Left In: 51.498 ± 20.765 χ^2/NDF : 15.2/8

Left: 63.287 ± 14.787 χ^2/NDF : 20.8/18

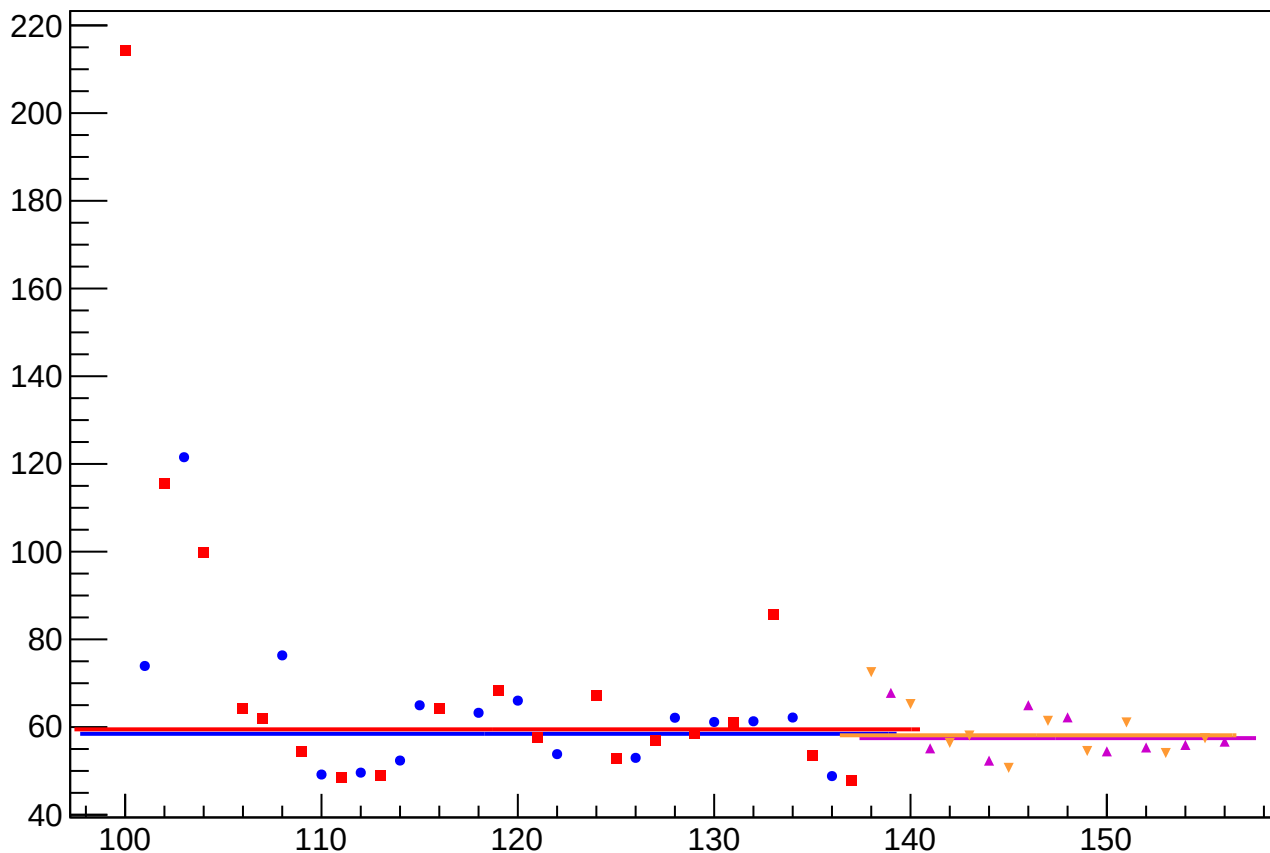
Right: 12.312 ± 15.997 χ^2/NDF : 40.9/34

In: 29.445 ± 15.253 χ^2/NDF : 33.8/24

Out: 50.438 ± 15.462 χ^2/NDF : 32.3/28

All: 39.799 ± 10.859 χ^2/NDF : 67.1/53

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: 58.126 $\pm$ 0.015 χ^2 /NDF: 137874.1/9

Right Out: 59.484 $\pm$ 0.016 χ^2 /NDF: 784880.2/18

Left In: 57.480 $\pm$ 0.015 χ^2 /NDF: 101003.8/8

Left: 57.799 $\pm$ 0.010 χ^2 /NDF: 239833.4/18

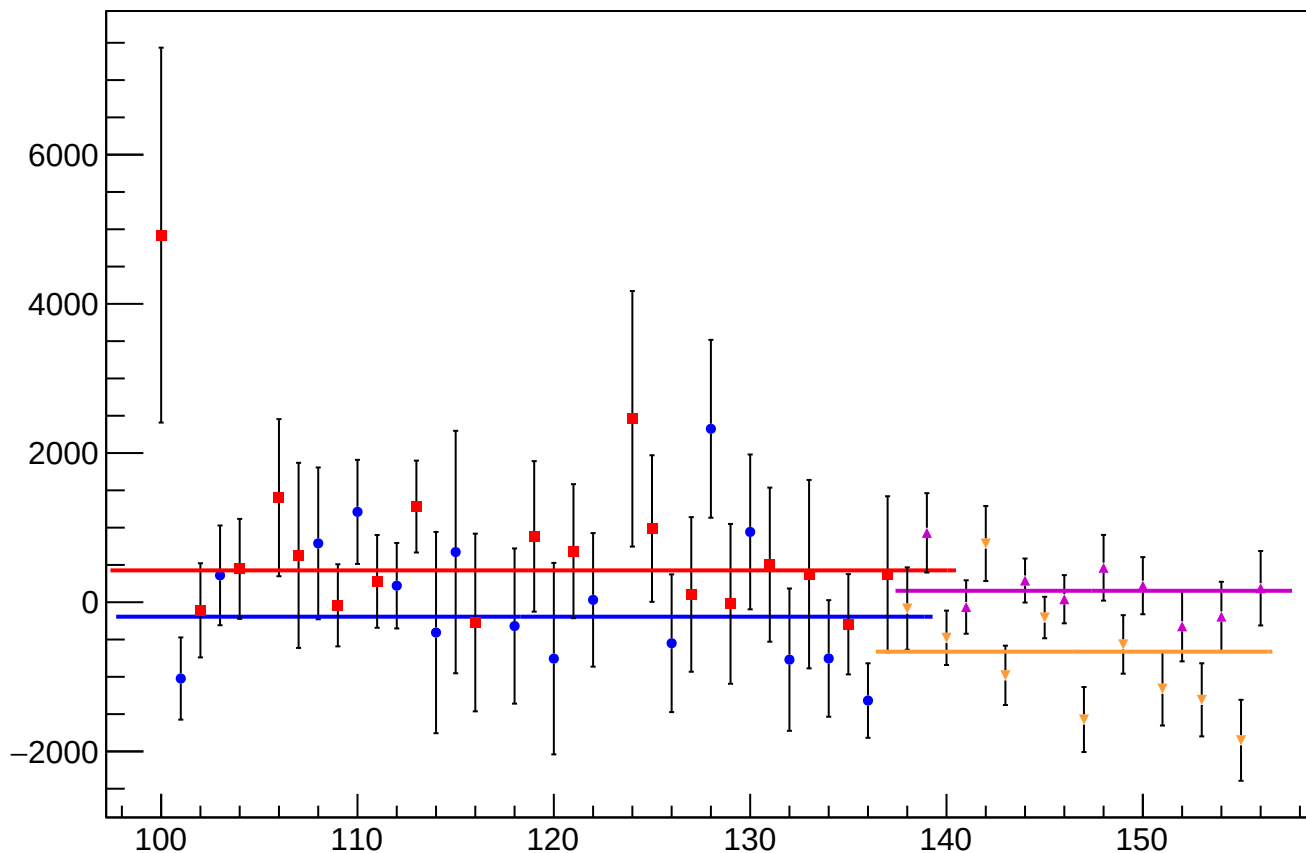
Right: 58.968 $\pm$ 0.011 χ^2 /NDF: 1369888.0/34

In: 57.934 $\pm$ 0.011 χ^2 /NDF: 686058.9/24

Out: 58.753 $\pm$ 0.011 χ^2 /NDF: 926586.7/28

All: 58.338 $\pm$ 0.008 χ^2 /NDF: 1615488.6/53

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899 $\pm$ 200.603 χ^2 /NDF: 20.8/15

Left Out: -662.426 $\pm$ 131.926 χ^2 /NDF:25.0/9

Right Out: 426.976 $\pm$ 197.005 χ^2 /NDF: 11.3/18

Left In: 153.474 $\pm$ 131.869 χ^2 /NDF:4.9/8

Left: -254.301 $\pm$ 93.266 χ^2 /NDF: 49.1/18

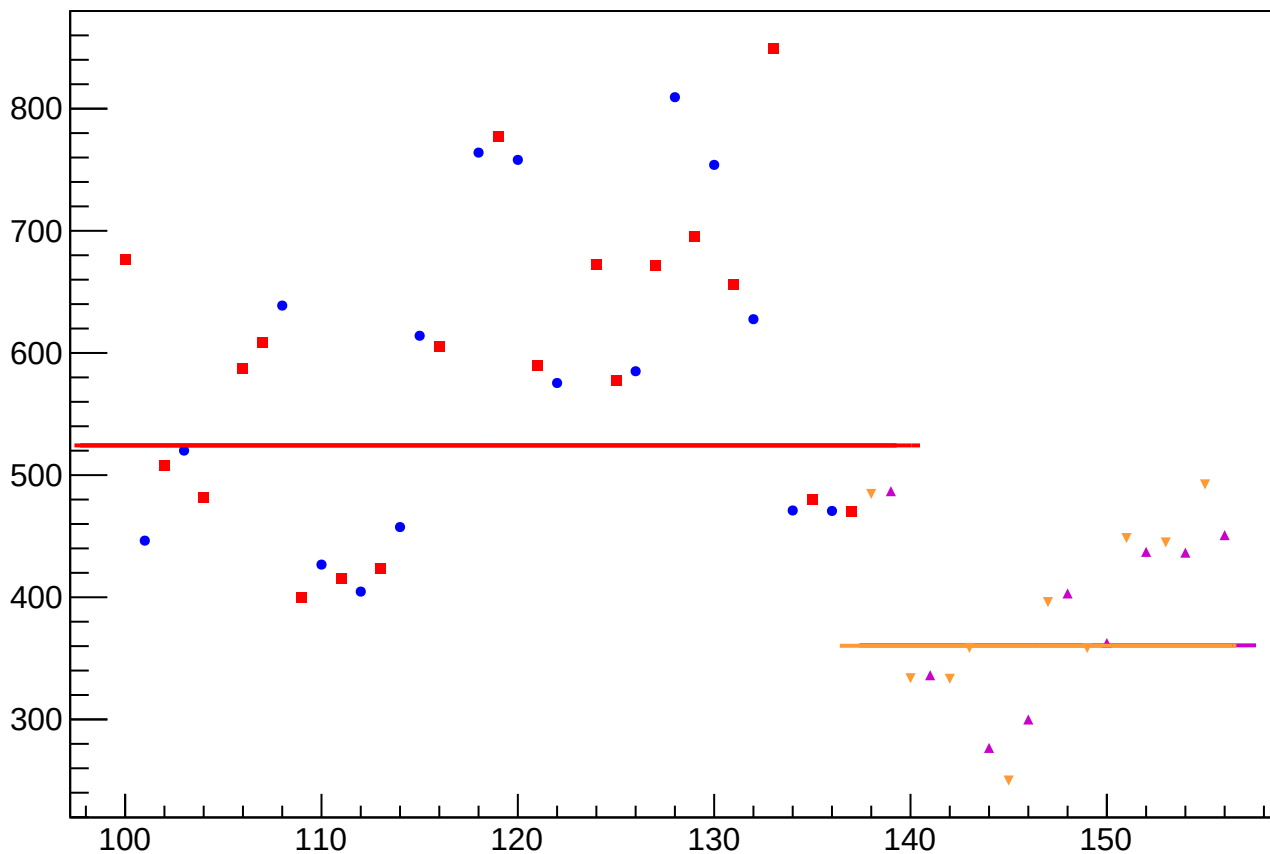
Right: 122.157 $\pm$ 140.558 χ^2 /NDF: 37.0/34

In: 48.659 $\pm$ 110.193 χ^2 /NDF:27.8/24

Out: -325.143 $\pm$ 109.617 χ^2 /NDF:57.4/28

All: -139.221 $\pm$ 77.714 χ^2 /NDF: 91.0/53

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: 360.304+/-0.093 χ^2/NDF : 688104.1/9

Right Out: 524.305+/-0.139 χ^2/NDF : 686063.6/18

Left In: 360.631+/-0.093 χ^2/NDF : 544557.7/8

Left: 360.467+/-0.066 χ^2/NDF : 1232667.9/18

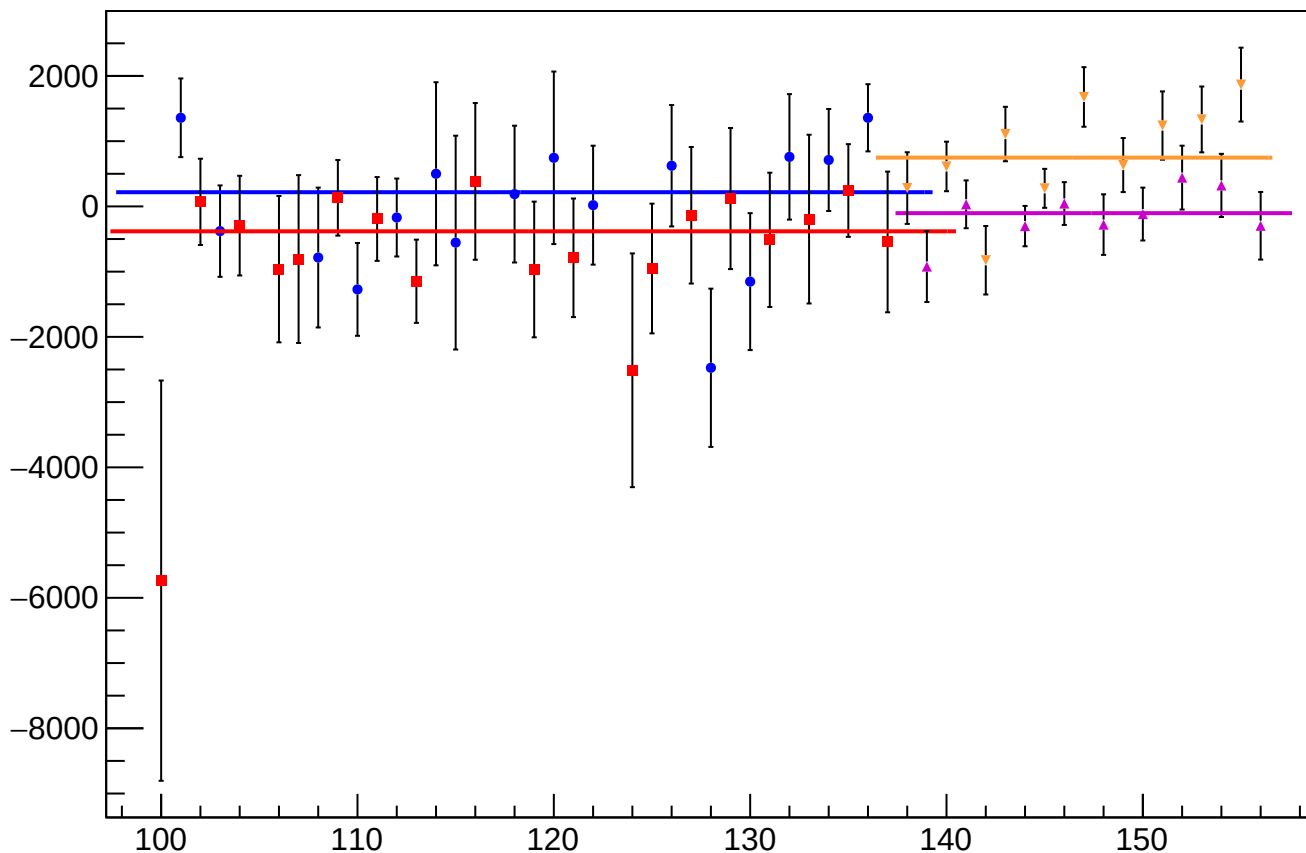
Right: 524.315+/-0.099 χ^2/NDF : 1344557.5/34

In: 410.024+/-0.078 χ^2/NDF : 2132960.3/24

Out: 411.079+/-0.078 χ^2/NDF : 2331076.8/28

All: 410.554+/-0.055 χ^2/NDF : 4464129.4/53

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 217.756 ± 207.492 $\chi^2/\text{NDF}: 22.9/15$

Left Out: 747.532 ± 138.486 $\chi^2/\text{NDF}: 23.4/9$

Right Out: -381.836 ± 205.585 $\chi^2/\text{NDF}: 10.0/18$

Left In: -103.296 ± 136.786 $\chi^2/\text{NDF}: 5.3/8$

Left: 316.865 ± 97.318 $\chi^2/\text{NDF}: 47.8/18$

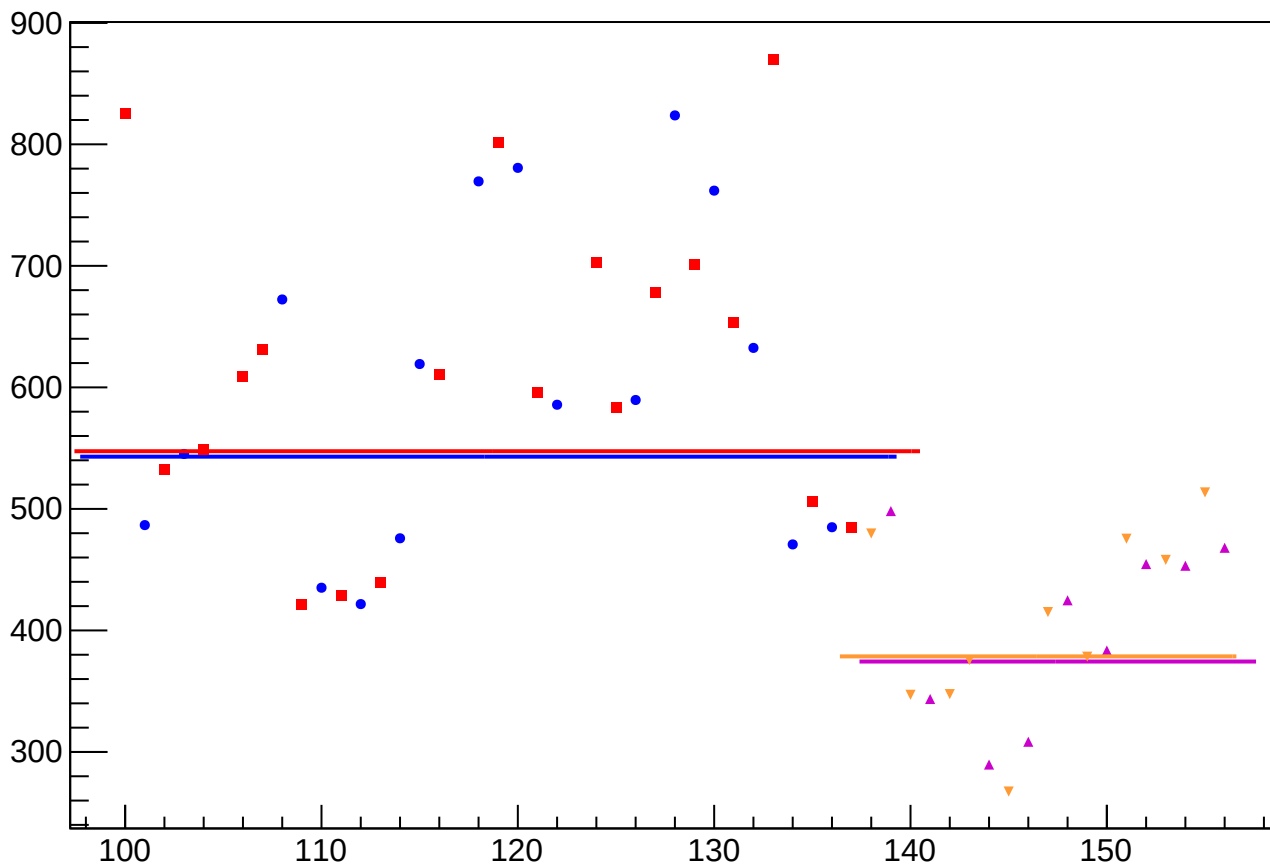
Right: -84.807 ± 146.040 $\chi^2/\text{NDF}: 37.1/34$

In: -6.037 ± 114.203 $\chi^2/\text{NDF}: 29.9/24$

Out: 395.023 ± 114.857 $\chi^2/\text{NDF}: 54.2/28$

All: 193.347 ± 80.984 $\chi^2/\text{NDF}: 90.2/53$

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 542.997 $\pm$ 0.147 χ^2 /NDF: 605250.7/15

Left Out: 378.644 $\pm$ 0.098 χ^2 /NDF: 610193.9/9

Right Out: 547.465 $\pm$ 0.145 χ^2 /NDF: 630284.0/18

Left In: 374.409 $\pm$ 0.097 χ^2 /NDF: 545457.1/8

Left: 376.500 $\pm$ 0.069 χ^2 /NDF: 1156597.5/18

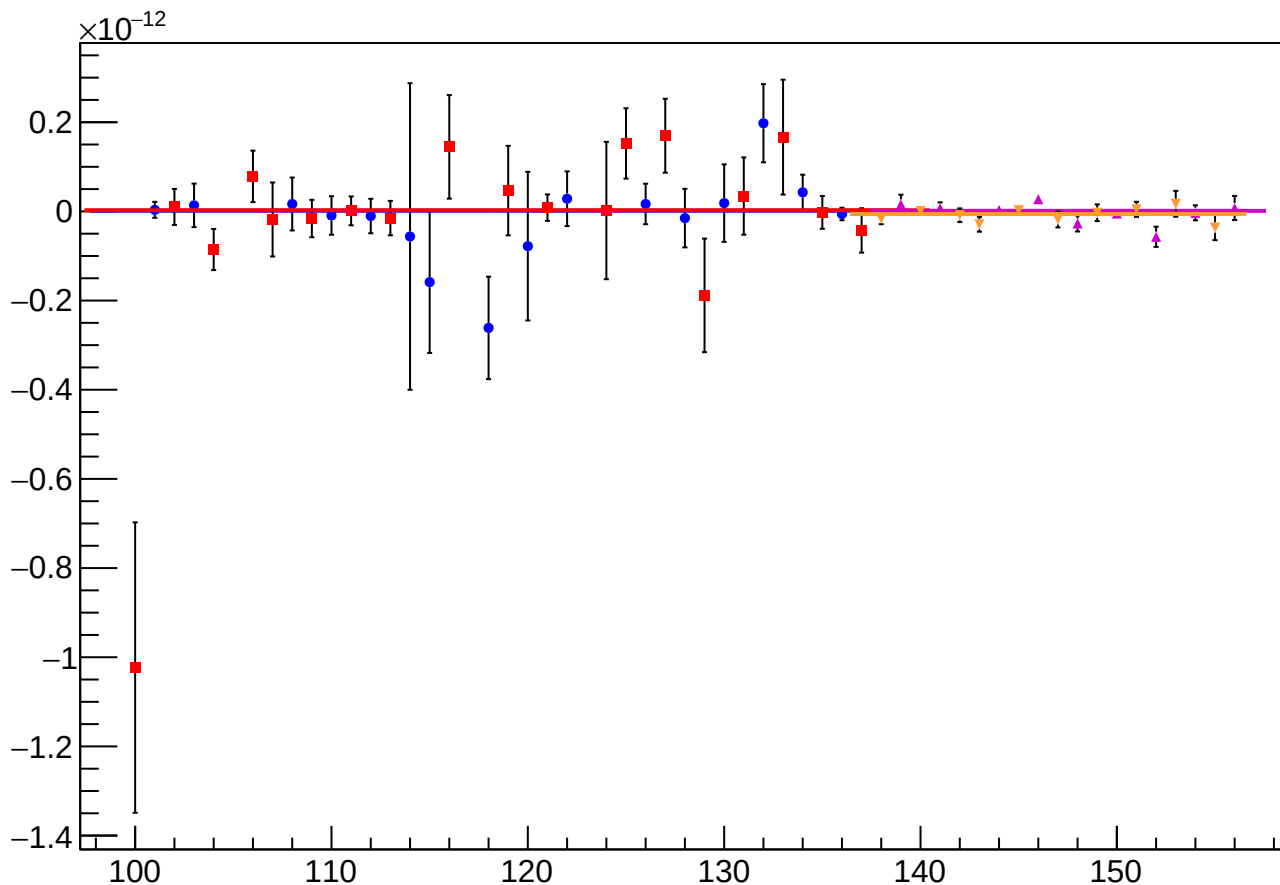
Right: 545.252 $\pm$ 0.103 χ^2 /NDF: 1236002.5/34

In: 425.481 $\pm$ 0.081 χ^2 /NDF: 2071055.5/24

Out: 431.338 $\pm$ 0.081 χ^2 /NDF: 2168172.6/28

All: 428.393 $\pm$ 0.057 χ^2 /NDF: 4241843.0/53

asym_sam_1357_avg_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 : 6.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 30.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 15.9/8

Left: -0.000+/-0.000 χ^2/NDF : 23.8/18

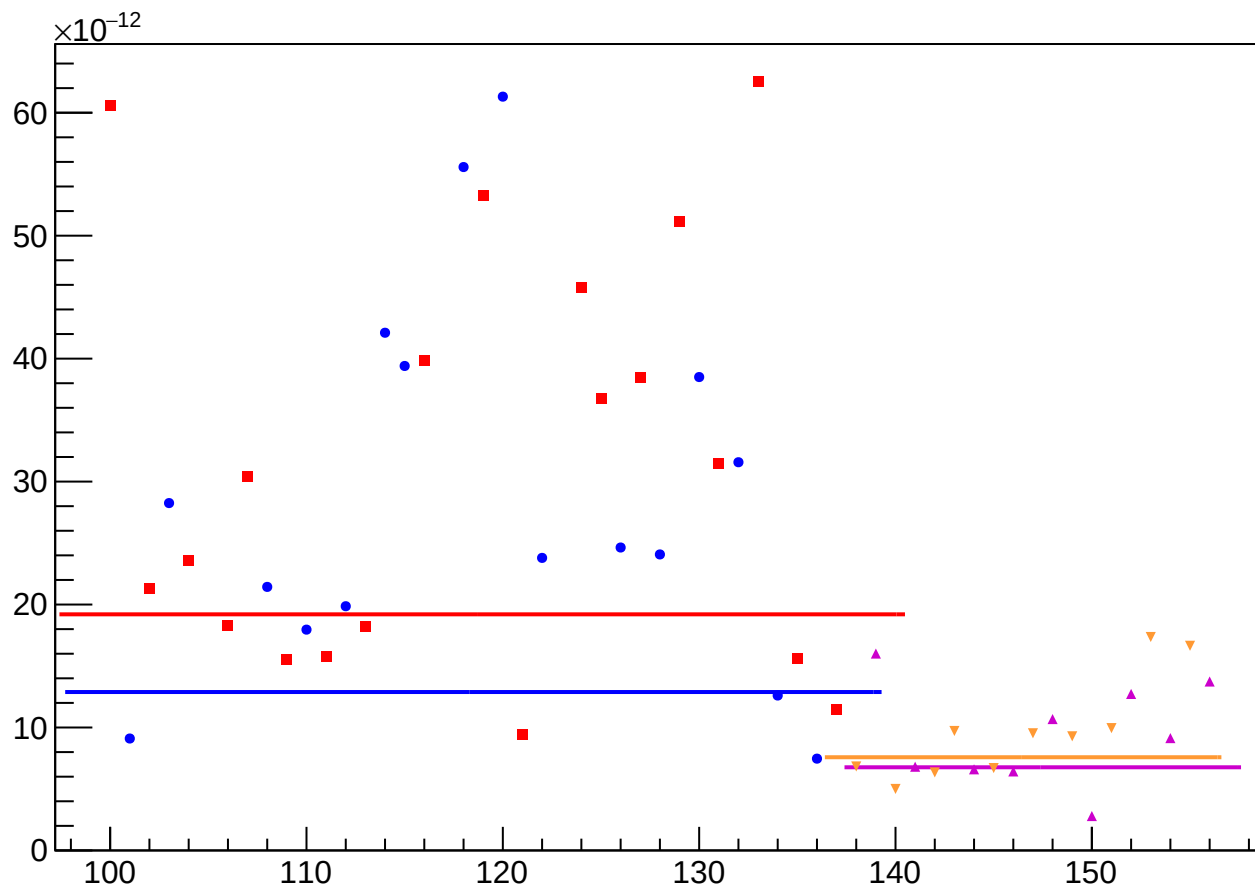
Right: 0.000+/-0.000 χ^2/NDF : 43.7/34

In: 0.000+/-0.000 χ^2/NDF : 29.5/24

Out: -0.000+/-0.000 χ^2/NDF : 37.1/28

All: -0.000+/-0.000 χ^2/NDF : 67.7/53

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 : 746133.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1367620.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1227292.0/8

Left: 0.000+/-0.000 χ^2/NDF : 2006174.7/18

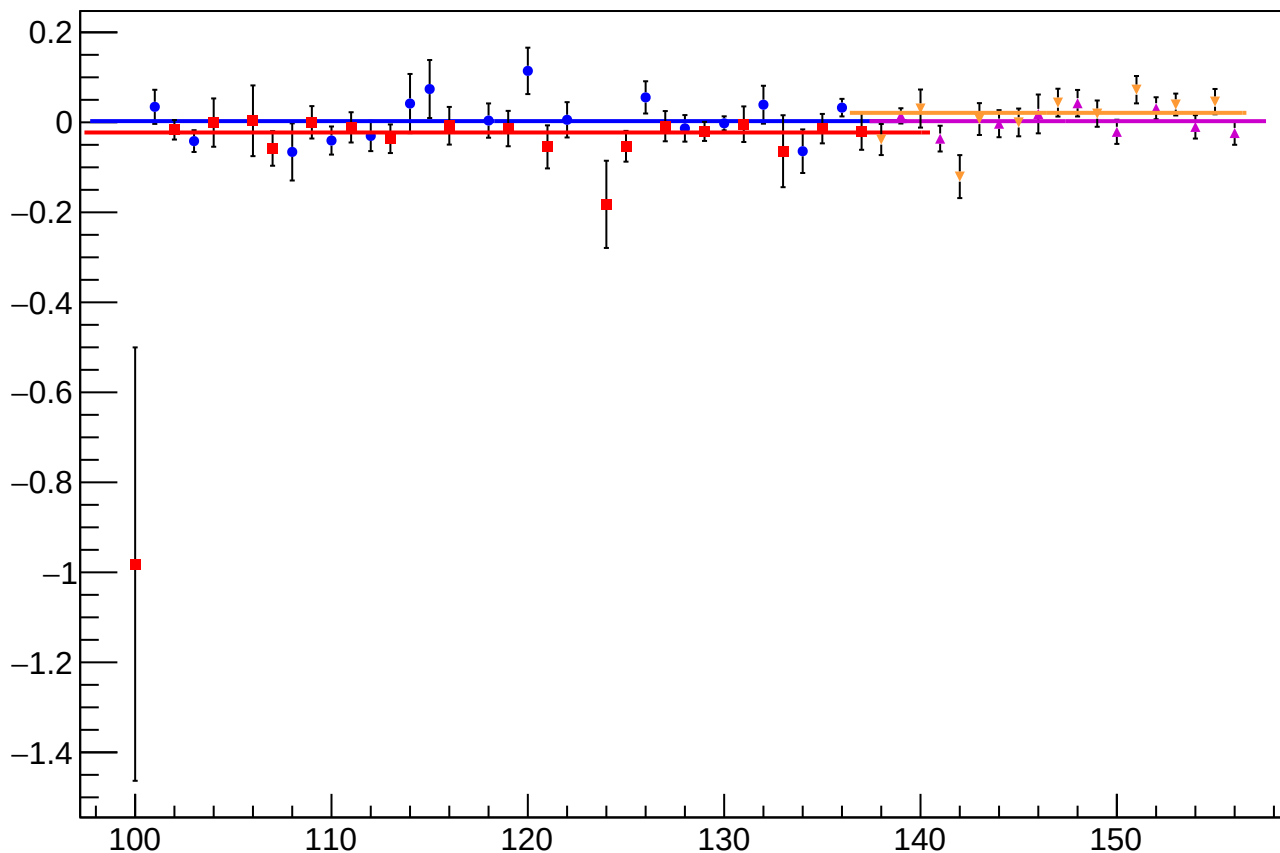
Right: 0.000+/-0.000 χ^2/NDF : 3472471.7/34

In: 0.000+/-0.000 χ^2/NDF : 3717202.5/24

Out: 0.000+/-0.000 χ^2/NDF : 3722203.7/28

All: 0.000+/-0.000 χ^2/NDF : 7504395.9/53

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: 0.021 ± 0.010 $\chi^2/\text{NDF}: 17.2/9$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.003 ± 0.009 $\chi^2/\text{NDF}: 7.7/8$

Left: 0.010 ± 0.007 $\chi^2/\text{NDF}: 26.9/18$

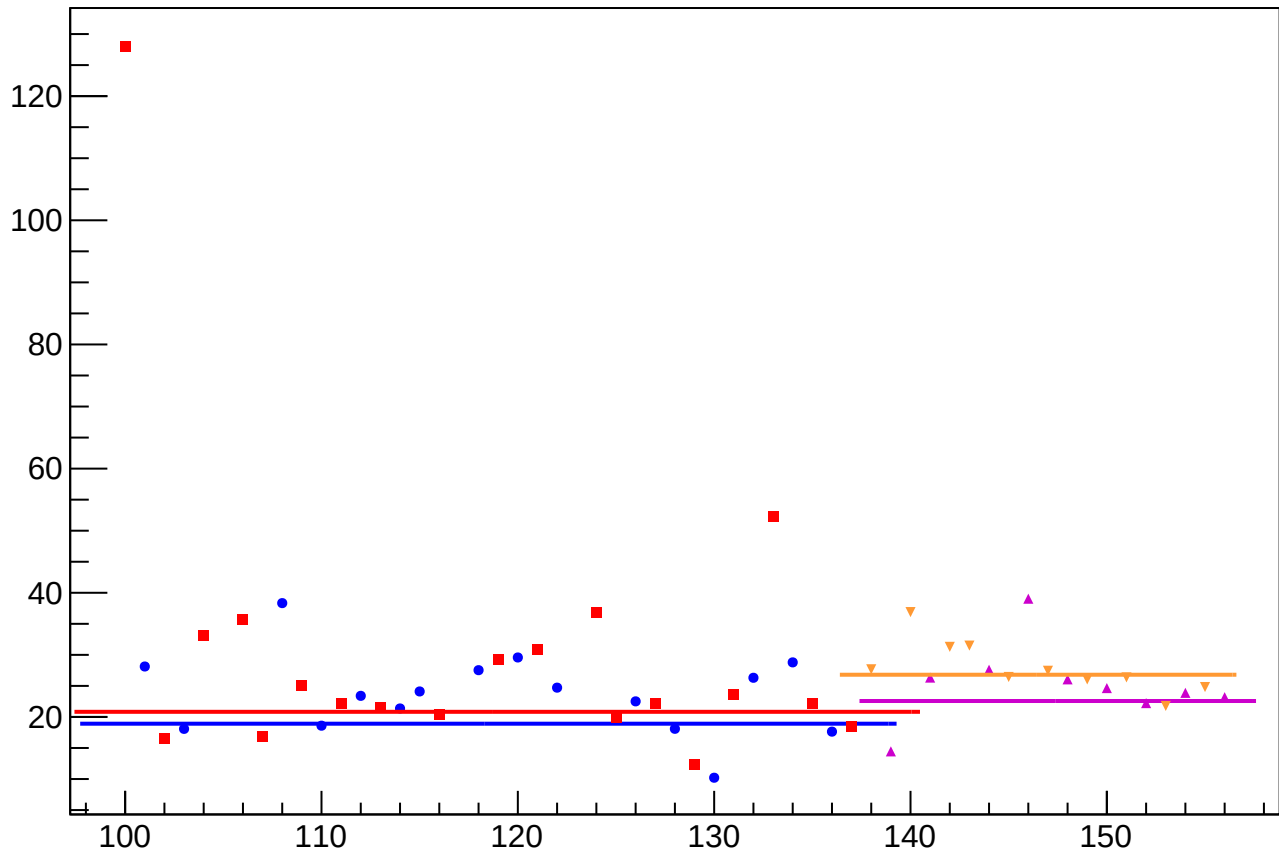
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.003 ± 0.006 $\chi^2/\text{NDF}: 29.7/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 39.1/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 69.4/53$

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: 26.799+/-0.007 χ^2/NDF : 266357.8/9

Right Out: 20.826+/-0.006 χ^2/NDF : 1291541.1/18

Left In: 22.567+/-0.006 χ^2/NDF : 887020.5/8

Left: 24.363+/-0.005 χ^2/NDF : 1358402.0/18

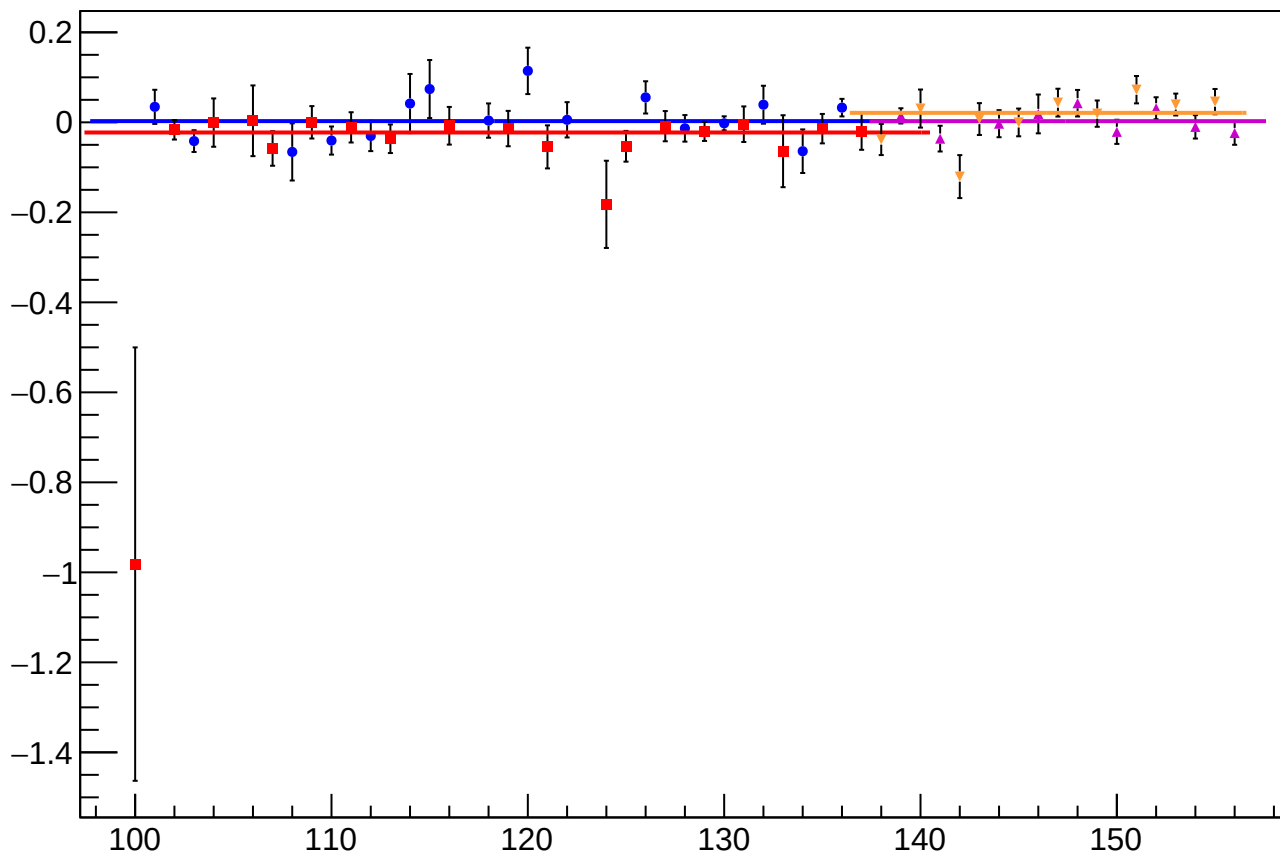
Right: 19.793+/-0.004 χ^2/NDF : 2737339.0/34

In: 20.561+/-0.004 χ^2/NDF : 2475369.9/24

Out: 23.306+/-0.005 χ^2/NDF : 1972824.7/28

All: 21.781+/-0.003 χ^2/NDF : 4648720.7/53

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: 0.021 ± 0.010 $\chi^2/\text{NDF}: 17.2/9$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.003 ± 0.009 $\chi^2/\text{NDF}: 7.7/8$

Left: 0.010 ± 0.007 $\chi^2/\text{NDF}: 26.9/18$

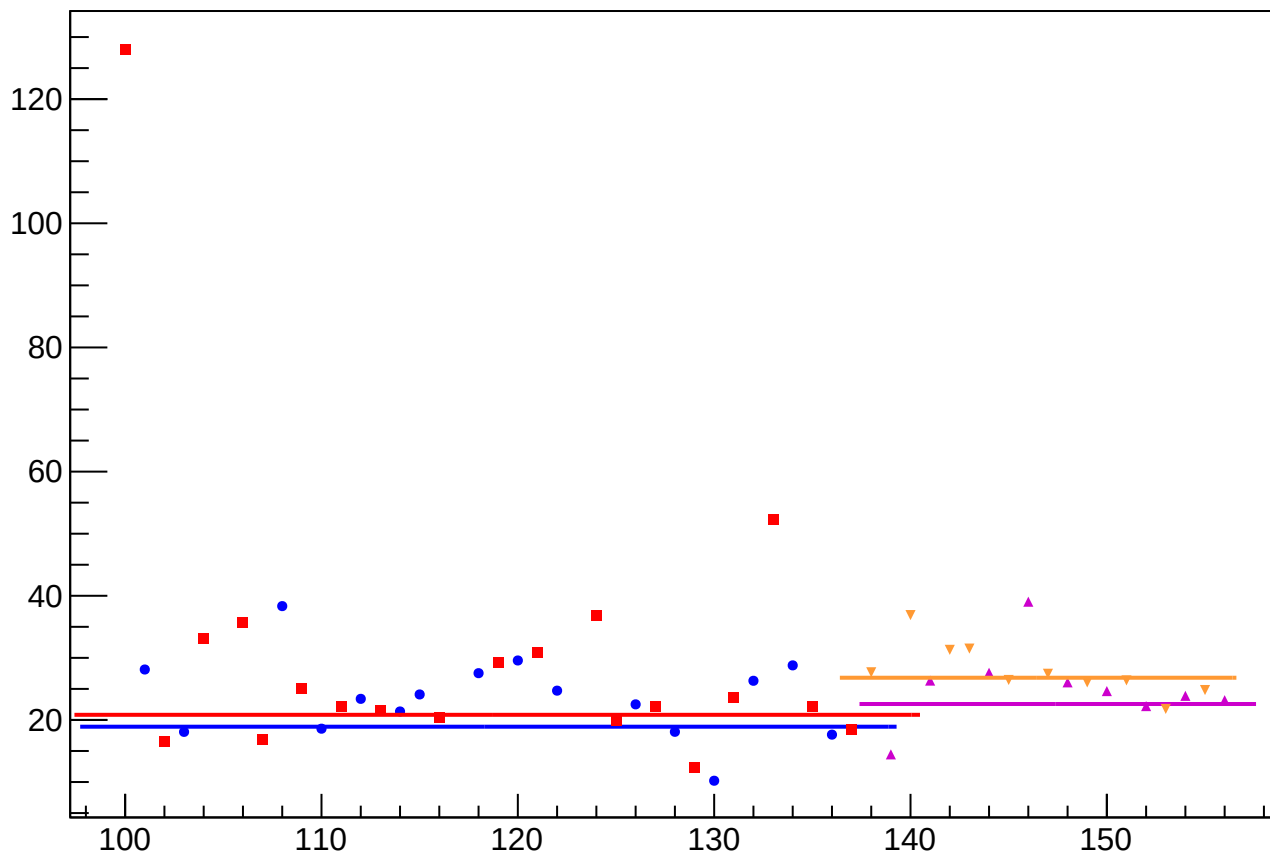
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.003 ± 0.006 $\chi^2/\text{NDF}: 29.7/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 39.1/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 69.4/53$

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.911 ± 0.006 $\chi^2/\text{NDF}: 1390349.2/15$

Left Out: 26.799 ± 0.007 $\chi^2/\text{NDF}: 266357.8/9$

Right Out: 20.826 ± 0.006 $\chi^2/\text{NDF}: 1291541.1/18$

Left In: 22.567 ± 0.006 $\chi^2/\text{NDF}: 887020.5/8$

Left: 24.363 ± 0.005 $\chi^2/\text{NDF}: 1358402.0/18$

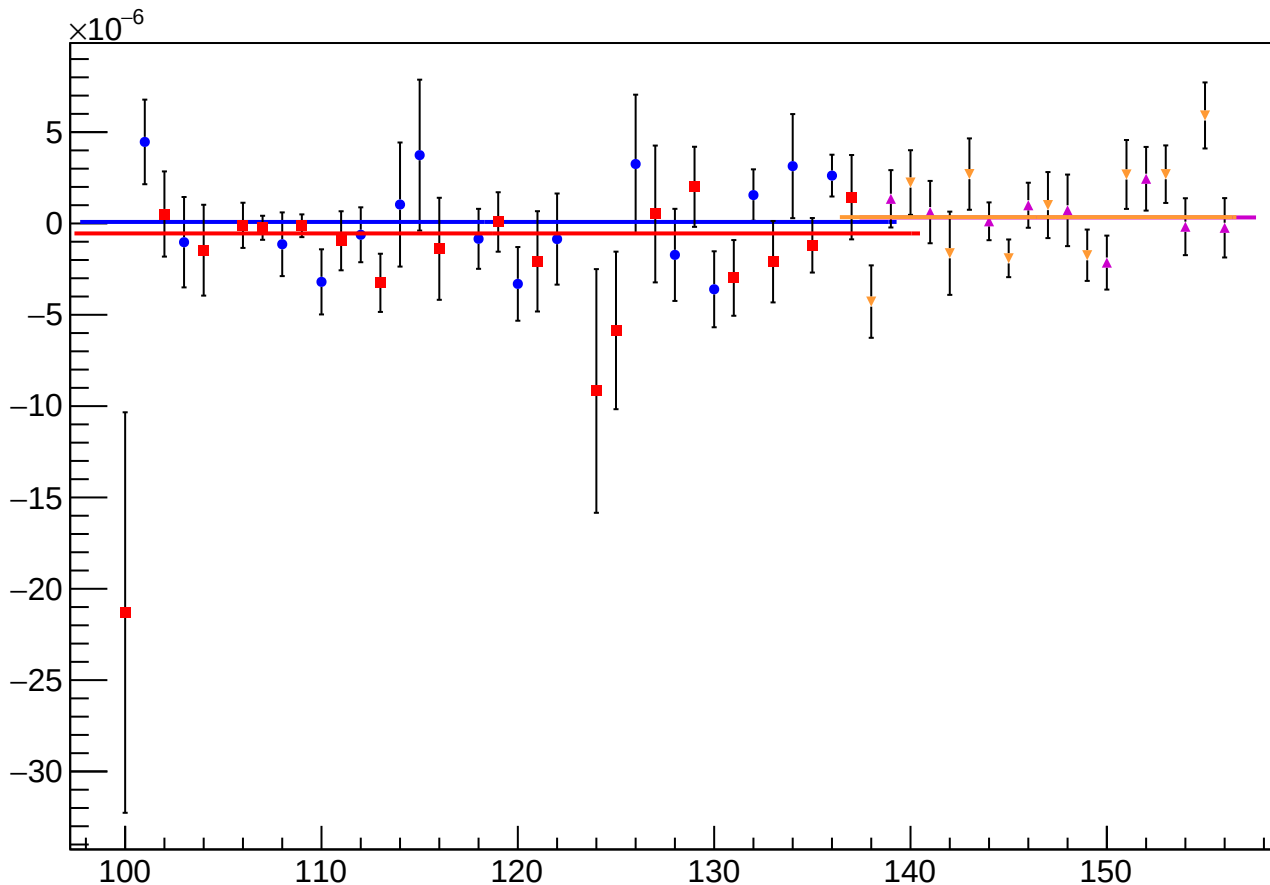
Right: 19.793 ± 0.004 $\chi^2/\text{NDF}: 2737339.0/34$

In: 20.561 ± 0.004 $\chi^2/\text{NDF}: 2475369.9/24$

Out: 23.306 ± 0.005 $\chi^2/\text{NDF}: 1972824.7/28$

All: 21.781 ± 0.003 $\chi^2/\text{NDF}: 4648720.7/53$

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.5/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:29.1/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.6/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:5.3/8

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 34.5/18

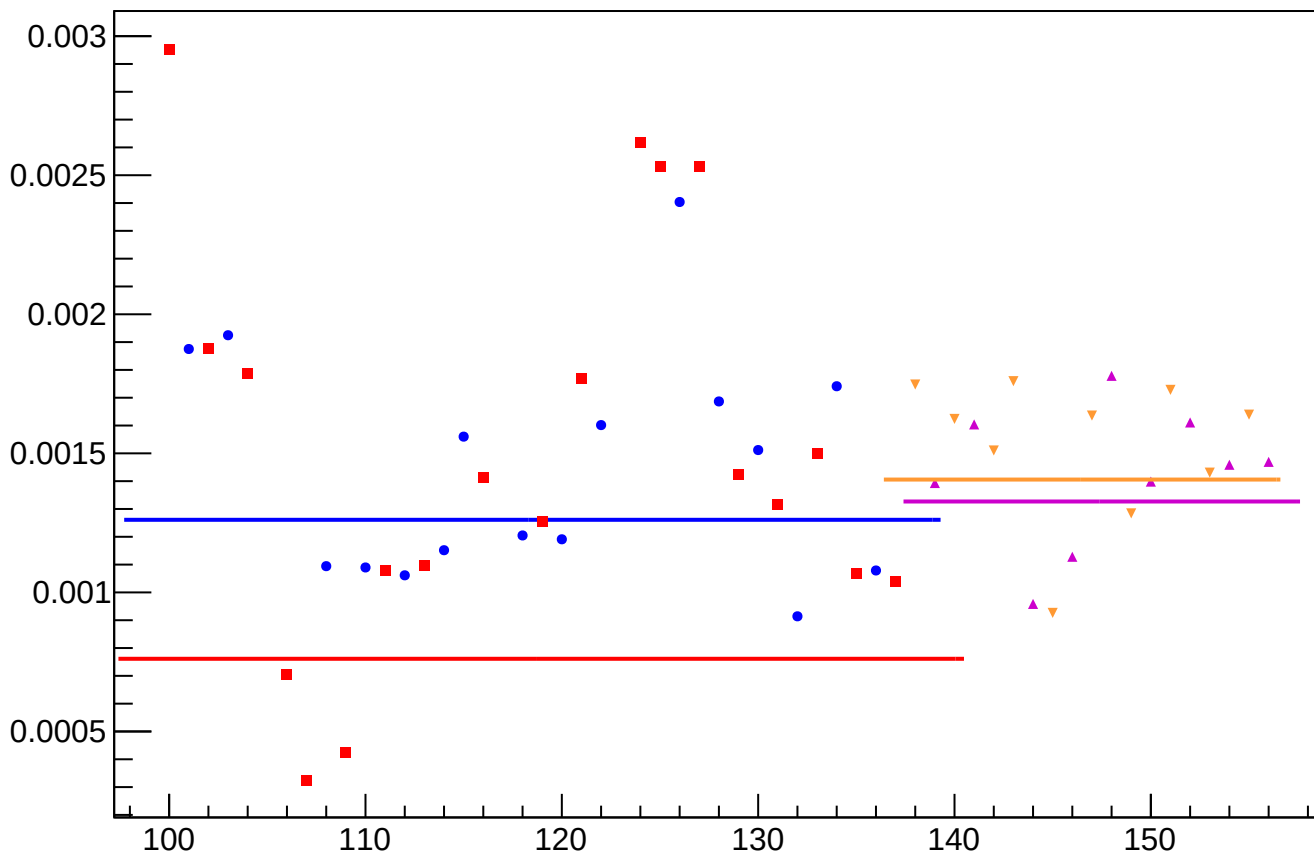
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 40.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:29.0/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:46.9/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 77.0/53

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: 0.001+/-0.000 χ^2/NDF : 730858.5/9

Right Out: 0.001+/-0.000 χ^2/NDF : 4672607.8/18

Left In: 0.001+/-0.000 χ^2/NDF : 555639.8/8

Left: 0.001+/-0.000 χ^2/NDF : 1311166.7/18

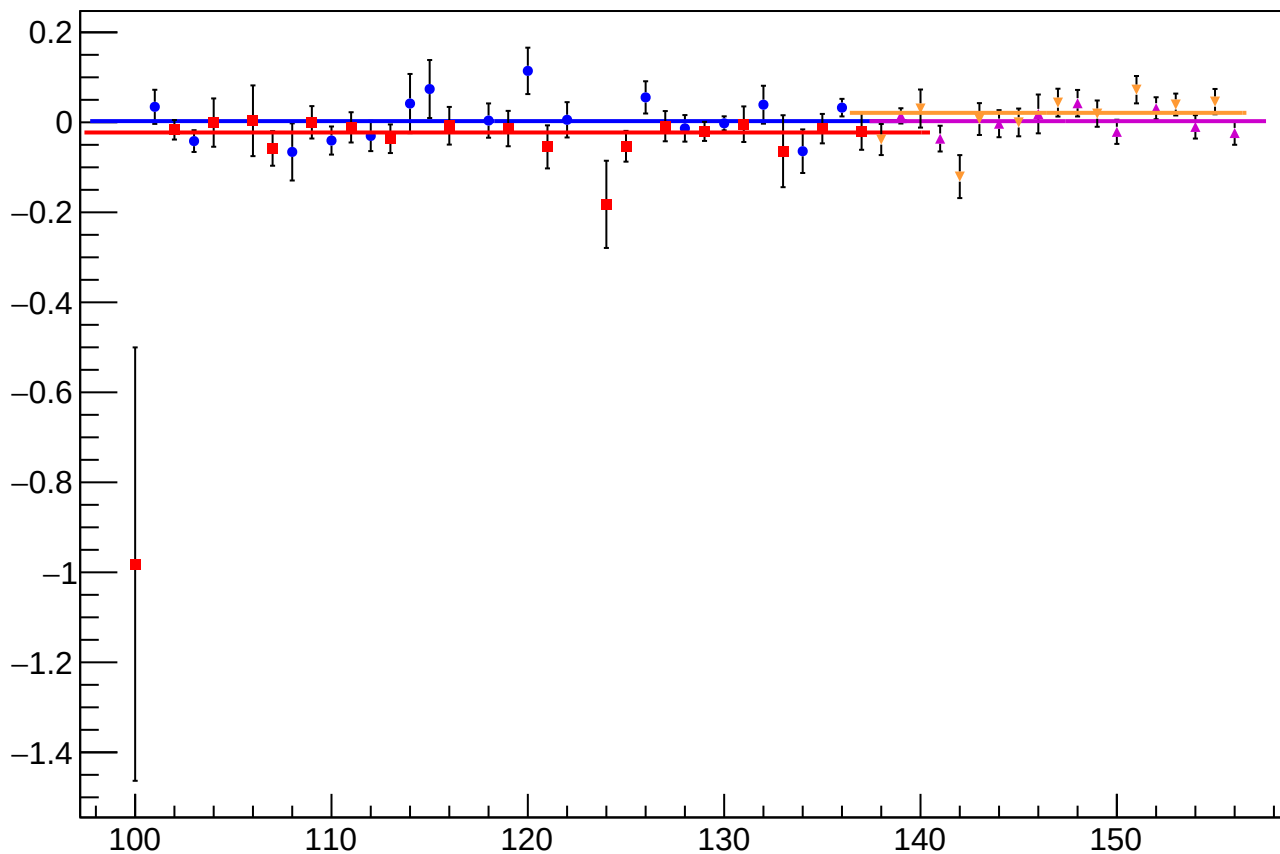
Right: 0.001+/-0.000 χ^2/NDF : 6998069.8/34

In: 0.001+/-0.000 χ^2/NDF : 1481146.4/24

Out: 0.001+/-0.000 χ^2/NDF : 7590453.5/28

All: 0.001+/-0.000 χ^2/NDF : 10220487.3/53

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: 0.021 ± 0.010 $\chi^2/\text{NDF}: 17.2/9$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.003 ± 0.009 $\chi^2/\text{NDF}: 7.7/8$

Left: 0.010 ± 0.007 $\chi^2/\text{NDF}: 26.9/18$

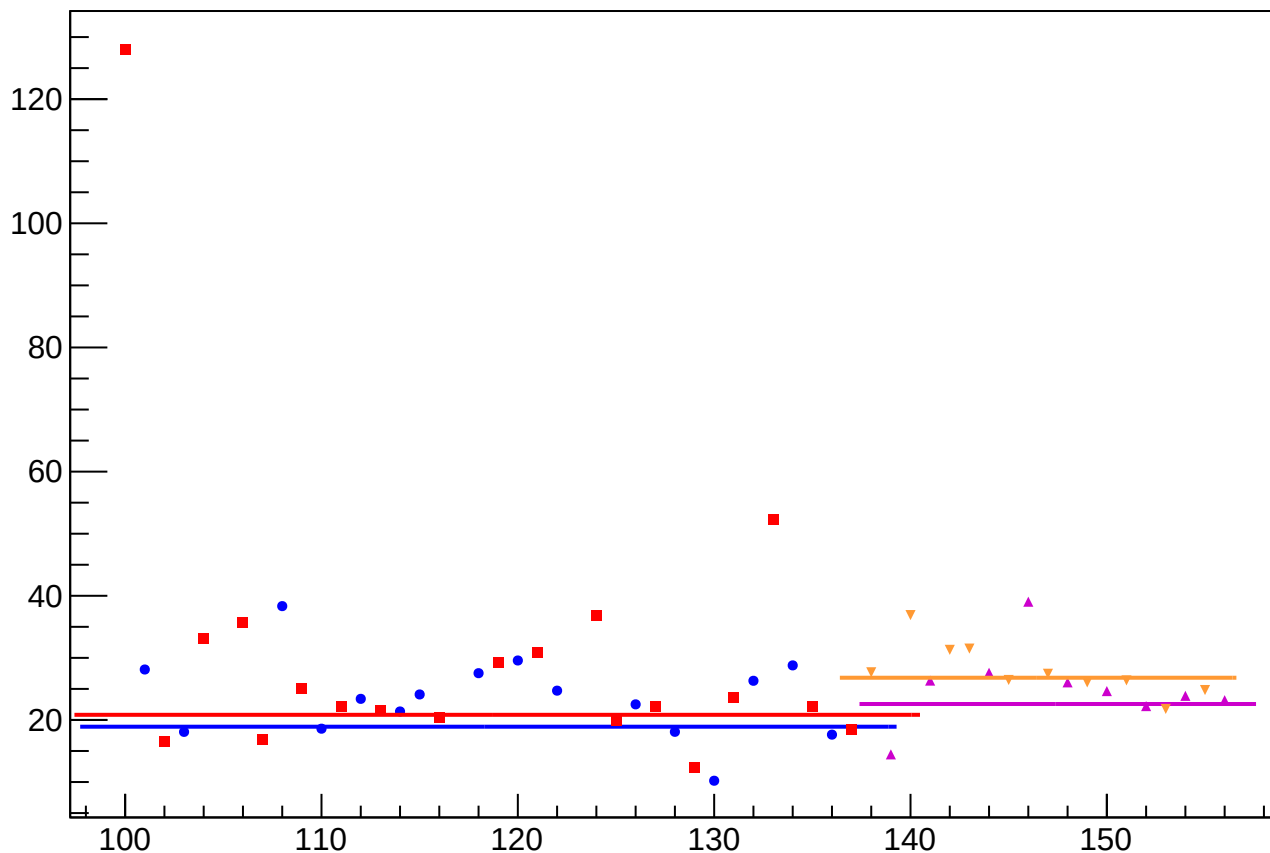
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.003 ± 0.006 $\chi^2/\text{NDF}: 29.7/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 39.1/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 69.4/53$

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: 26.800+/-0.007 χ^2/NDF : 266349.0/9

Right Out: 20.827+/-0.006 χ^2/NDF : 1291537.3/18

Left In: 22.568+/-0.006 χ^2/NDF : 886945.4/8

Left: 24.364+/-0.005 χ^2/NDF : 1358301.3/18

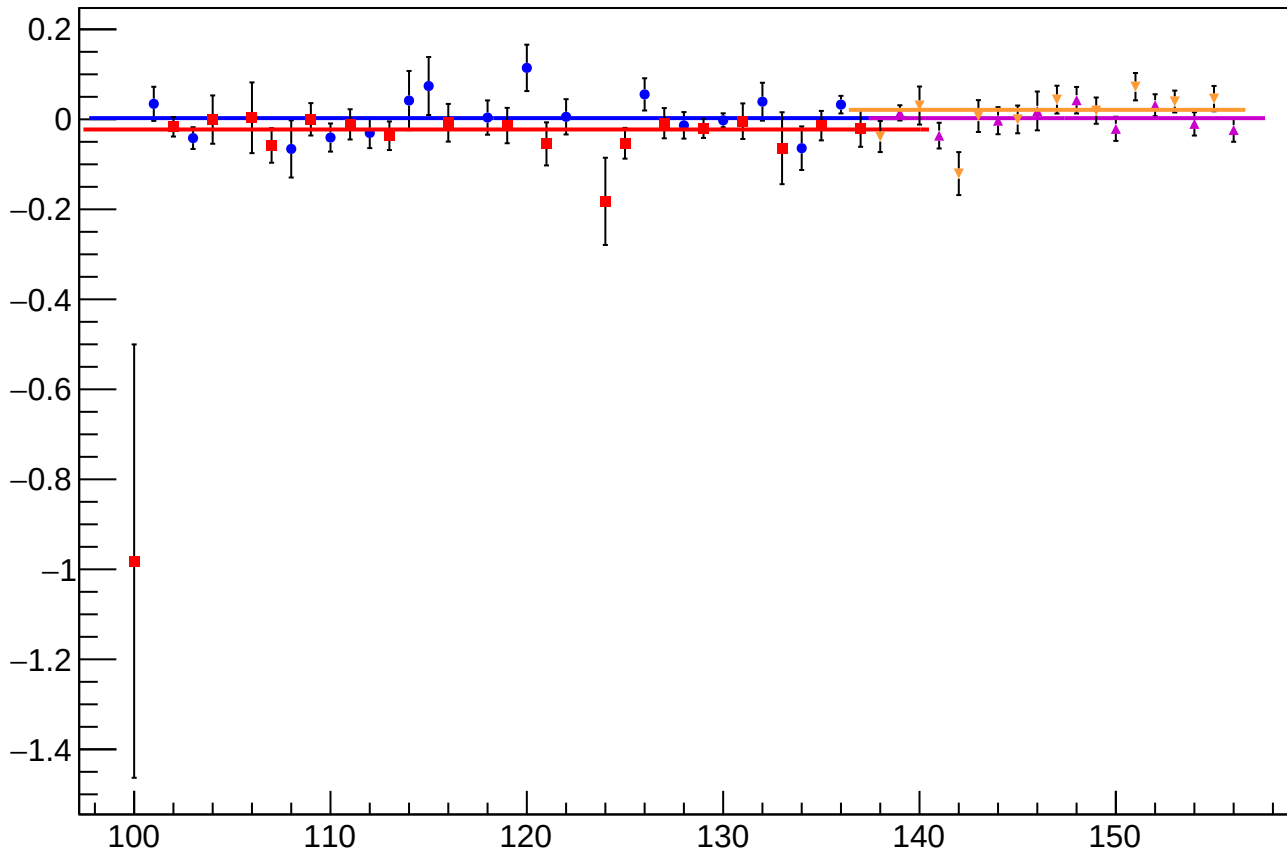
Right: 19.793+/-0.004 χ^2/NDF : 2737206.7/34

In: 20.561+/-0.004 χ^2/NDF : 2475201.7/24

Out: 23.307+/-0.005 χ^2/NDF : 1972855.5/28

All: 21.782+/-0.003 χ^2/NDF : 4648551.4/53

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: 0.021 ± 0.010 $\chi^2/\text{NDF}: 17.2/9$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.003 ± 0.009 $\chi^2/\text{NDF}: 7.7/8$

Left: 0.010 ± 0.007 $\chi^2/\text{NDF}: 26.9/18$

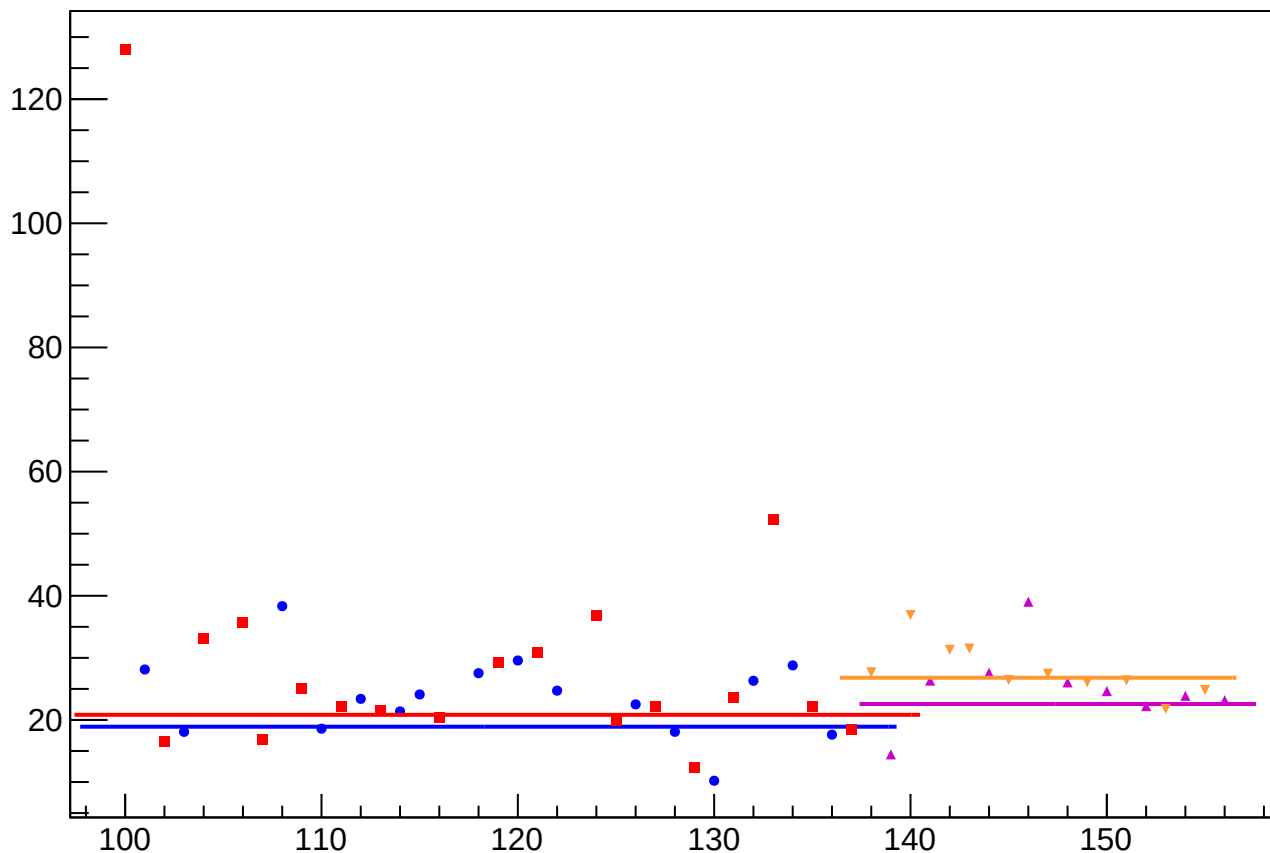
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.003 ± 0.006 $\chi^2/\text{NDF}: 29.7/24$

Out: -0.004 ± 0.006 $\chi^2/\text{NDF}: 39.1/28$

All: -0.000 ± 0.004 $\chi^2/\text{NDF}: 69.4/53$

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.912 $\pm$ 0.006 χ^2 /NDF: 1390233.4/15

Left Out: 26.800 $\pm$ 0.007 χ^2 /NDF: 266349.0/9

Right Out: 20.827 $\pm$ 0.006 χ^2 /NDF: 1291537.3/18

Left In: 22.568 $\pm$ 0.006 χ^2 /NDF: 886945.4/8

Left: 24.364 $\pm$ 0.005 χ^2 /NDF: 1358301.3/18

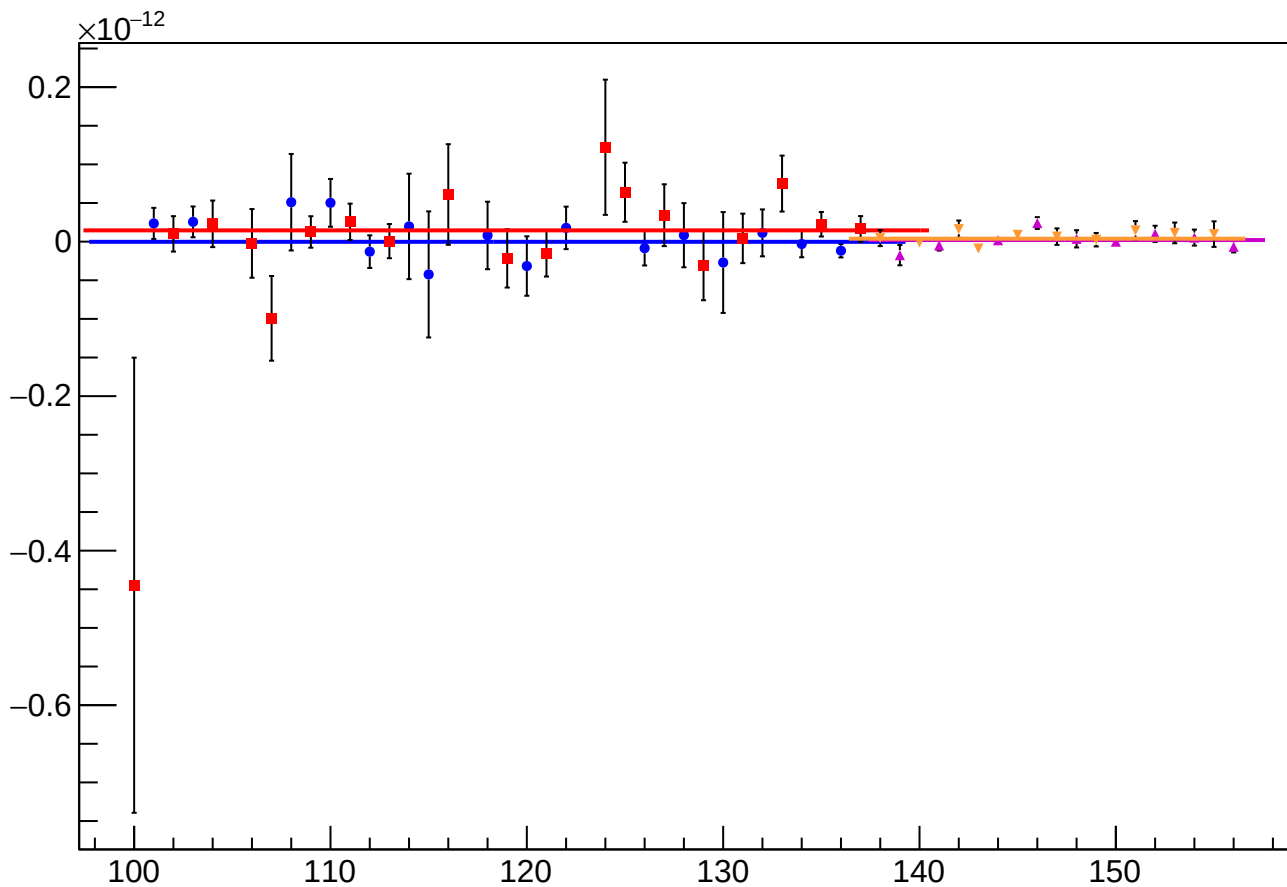
Right: 19.793 $\pm$ 0.004 χ^2 /NDF: 2737206.7/34

In: 20.561 $\pm$ 0.004 χ^2 /NDF: 2475201.7/24

Out: 23.307 $\pm$ 0.005 χ^2 /NDF: 1972855.5/28

All: 21.782 $\pm$ 0.003 χ^2 /NDF: 4648551.4/53

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 : 8.2/9

Right Out: 0.000 ± 0.000 χ^2/NDF : 17.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 13.8/8

Left: 0.000 ± 0.000 χ^2/NDF : 22.2/18

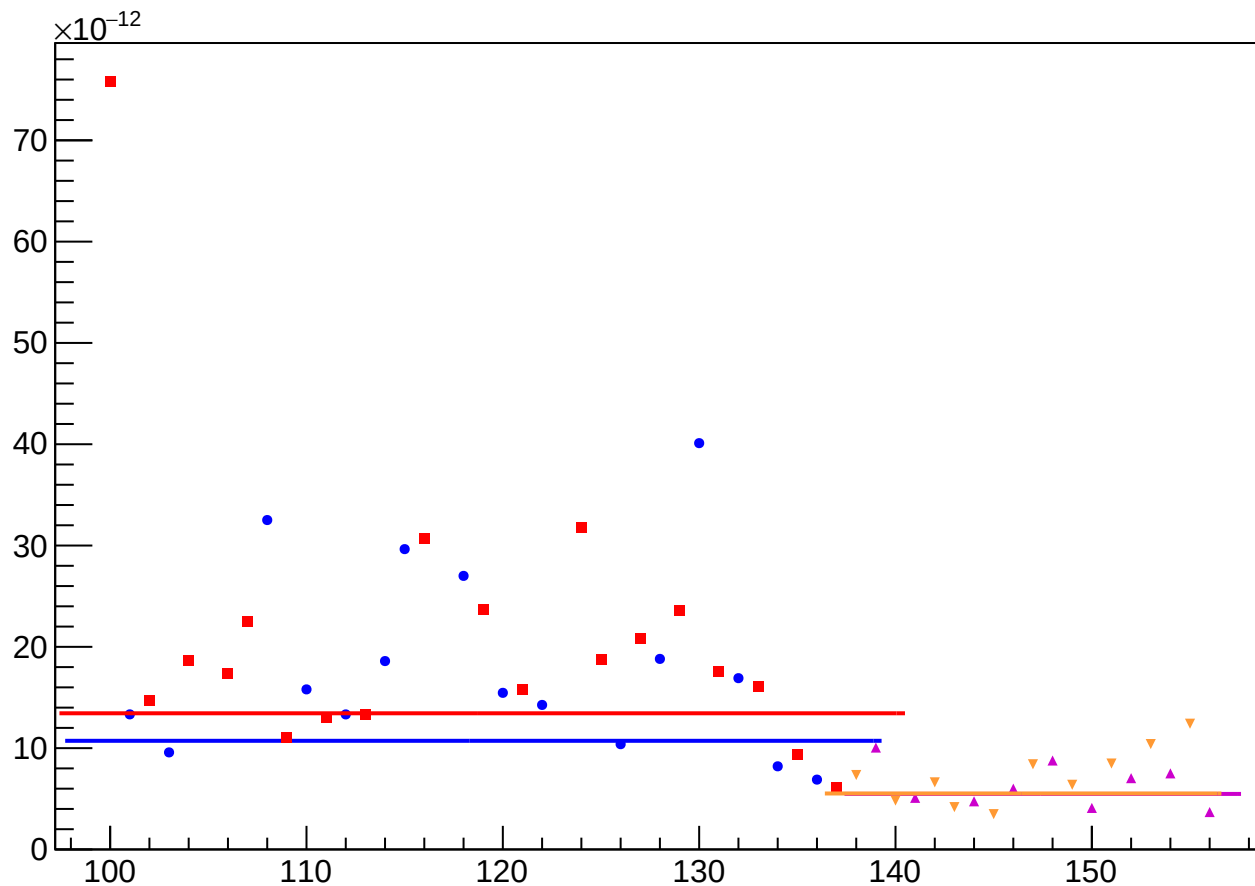
Right: 0.000 ± 0.000 χ^2/NDF : 31.1/34

In: 0.000 ± 0.000 χ^2/NDF : 24.5/24

Out: 0.000 ± 0.000 χ^2/NDF : 28.1/28

All: 0.000 ± 0.000 χ^2/NDF : 53.8/53

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 :1428302.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 1402984.9/18

Left In: 0.000+/-0.000 χ^2/NDF :794598.7/8

Left: 0.000+/-0.000 χ^2/NDF : 2223173.4/18

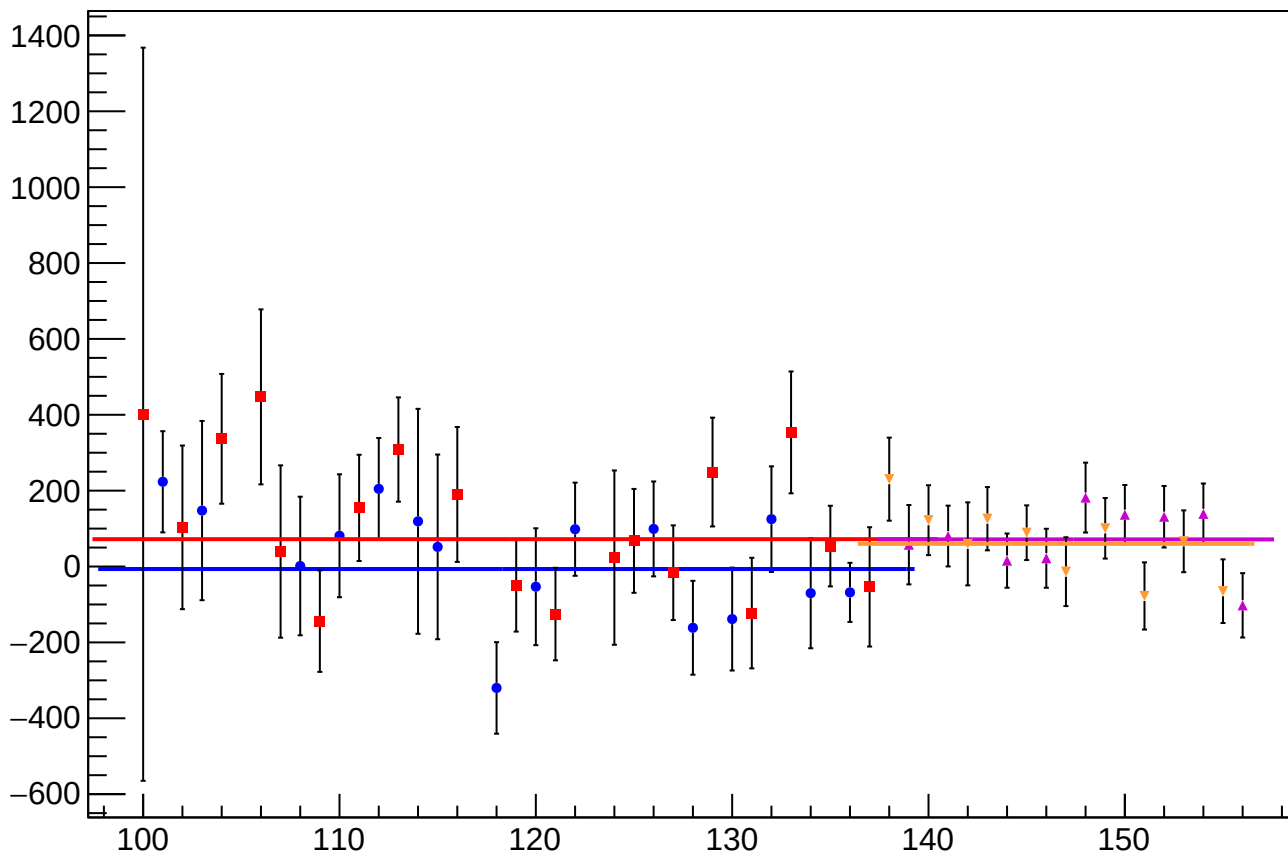
Right: 0.000+/-0.000 χ^2/NDF : 3438709.3/34

In: 0.000+/-0.000 χ^2/NDF :4060891.6/24

Out: 0.000+/-0.000 χ^2/NDF :5362145.4/28

All: 0.000+/-0.000 χ^2/NDF : 9427834.2/53

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.559 ± 34.286 $\chi^2/\text{NDF}: 18.9/15$

Left Out: 59.830 ± 27.525 $\chi^2/\text{NDF}: 9.2/9$

Right Out: 72.124 ± 34.883 $\chi^2/\text{NDF}: 22.8/18$

Left In: 71.534 ± 27.348 $\chi^2/\text{NDF}: 8.6/8$

Left: 65.720 ± 19.400 $\chi^2/\text{NDF}: 17.9/18$

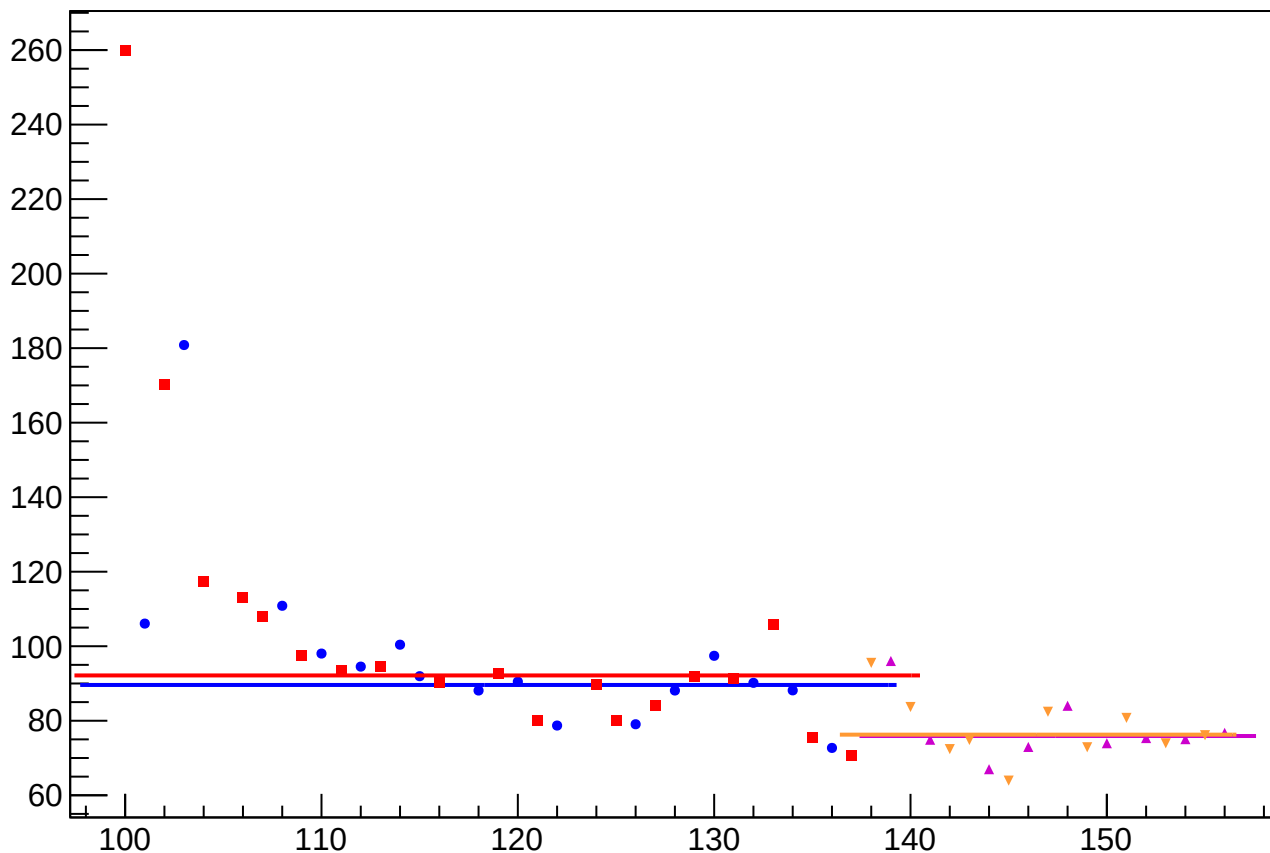
Right: 32.104 ± 24.452 $\chi^2/\text{NDF}: 44.3/34$

In: 41.168 ± 21.380 $\chi^2/\text{NDF}: 30.7/24$

Out: 64.547 ± 21.608 $\chi^2/\text{NDF}: 32.1/28$

All: 52.734 ± 15.198 $\chi^2/\text{NDF}: 63.4/53$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604+/-0.024 χ^2/NDF : 498380.8/15

Left Out: 76.269+/-0.019 χ^2/NDF : 156184.3/9

Right Out: 92.161+/-0.025 χ^2/NDF : 542074.4/18

Left In: 75.904+/-0.019 χ^2/NDF : 125482.9/8

Left: 76.085+/-0.014 χ^2/NDF : 281844.2/18

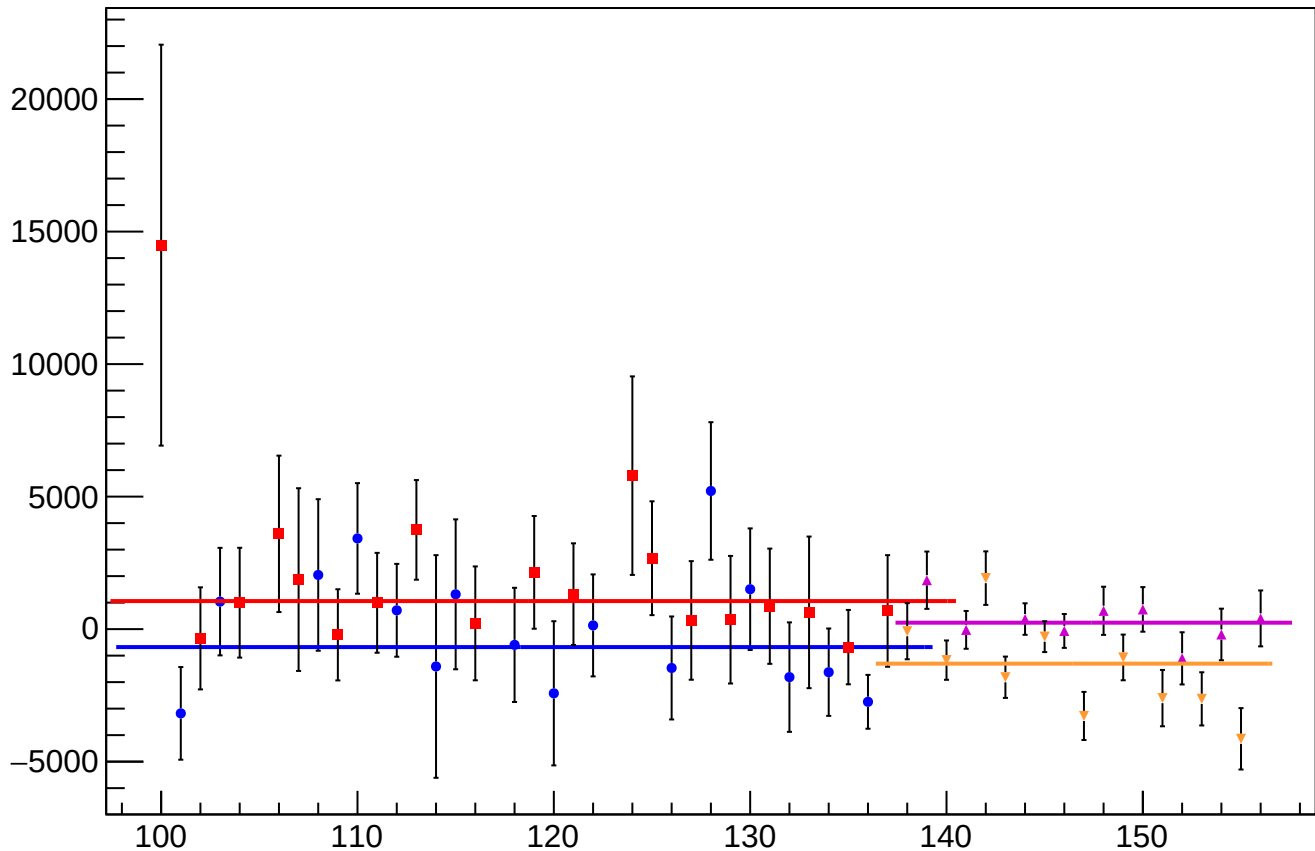
Right: 90.860+/-0.017 χ^2/NDF : 1045922.9/34

In: 81.231+/-0.015 χ^2/NDF : 819026.5/24

Out: 82.367+/-0.015 χ^2/NDF : 954099.8/28

All: 81.793+/-0.011 χ^2/NDF : 1775919.9/53

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: -1302.594+/-272.465 χ^2/NDF :29.1/9

Right Out: 1058.761+/-496.350 χ^2/NDF : 11.5/18

Left In: 243.191+/-270.065 χ^2/NDF :5.3/8

Left: -522.862+/-191.808 χ^2/NDF : 50.7/18

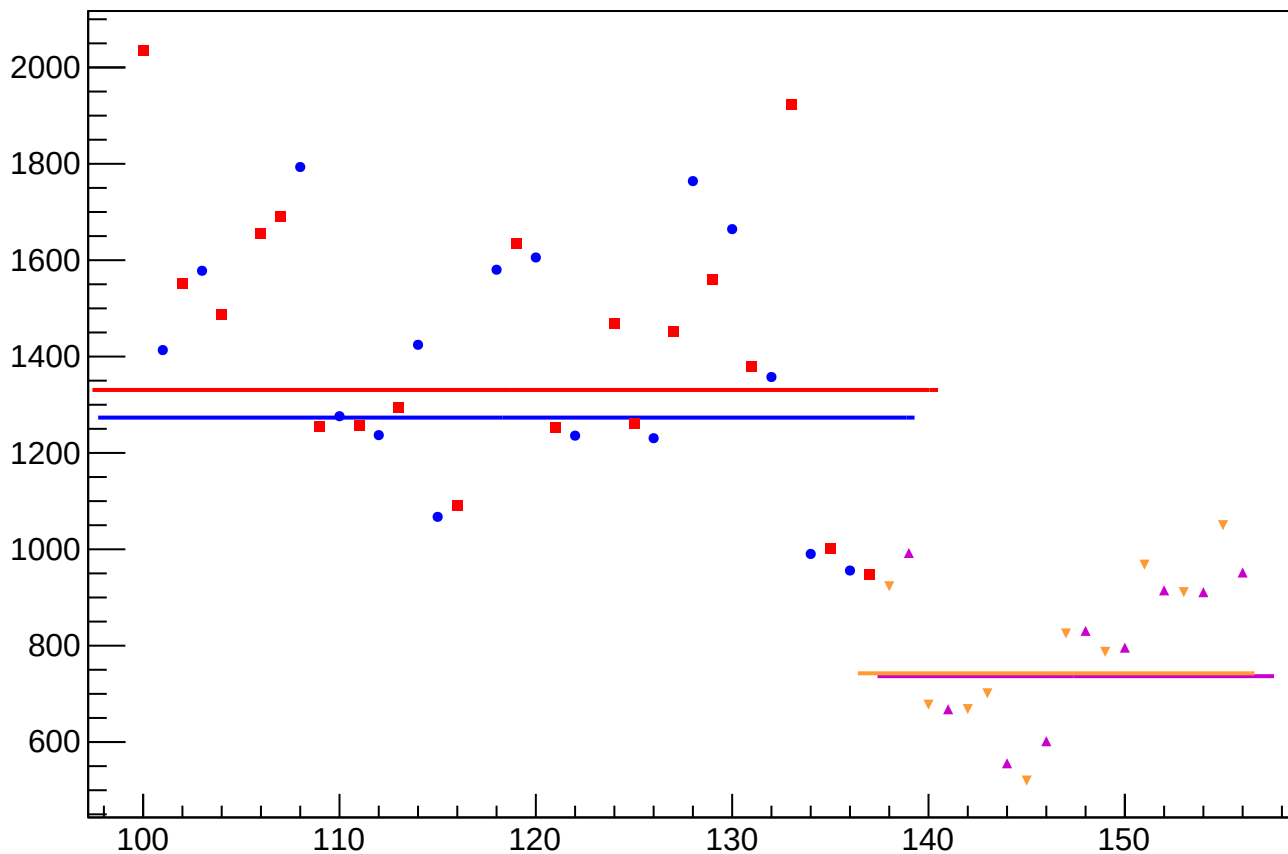
Right: 173.256+/-347.430 χ^2/NDF : 38.0/34

In: 26.323+/-236.121 χ^2/NDF :28.3/24

Out: -755.805+/-238.846 χ^2/NDF :58.0/28

All: -360.254+/-167.918 χ^2/NDF : 91.7/53

asym_sam_2468_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1273.324 ± 0.344 $\chi^2/\text{NDF}: 597520.6/15$

Left Out: 742.623 ± 0.193 $\chi^2/\text{NDF}: 691869.4/9$

Right Out: 1330.683 ± 0.351 $\chi^2/\text{NDF}: 470703.7/18$

Left In: 736.735 ± 0.191 $\chi^2/\text{NDF}: 648780.5/8$

Left: 739.653 ± 0.136 $\chi^2/\text{NDF}: 1341121.0/18$

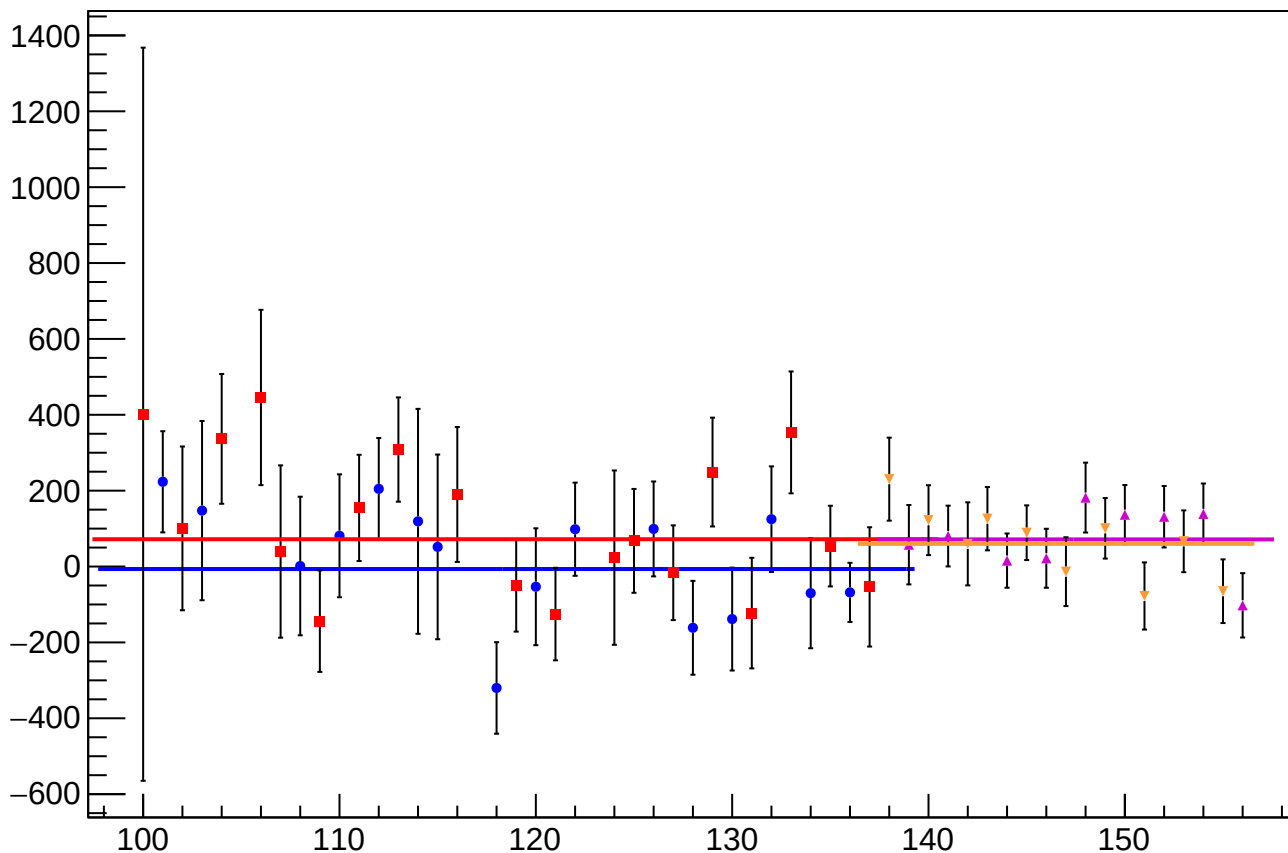
Right: 1301.428 ± 0.246 $\chi^2/\text{NDF}: 1081847.0/34$

In: 863.145 ± 0.167 $\chi^2/\text{NDF}: 3106316.0/24$

Out: 878.792 ± 0.169 $\chi^2/\text{NDF}: 3319866.3/28$

All: 870.879 ± 0.119 $\chi^2/\text{NDF}: 6430523.7/53$

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: 59.838 $\pm$ 27.525 χ^2 /NDF: 9.2/9

Right Out: 71.981 $\pm$ 34.885 χ^2 /NDF: 22.8/18

Left In: 71.534 $\pm$ 27.348 χ^2 /NDF: 8.6/8

Left: 65.724 $\pm$ 19.400 χ^2 /NDF: 17.9/18

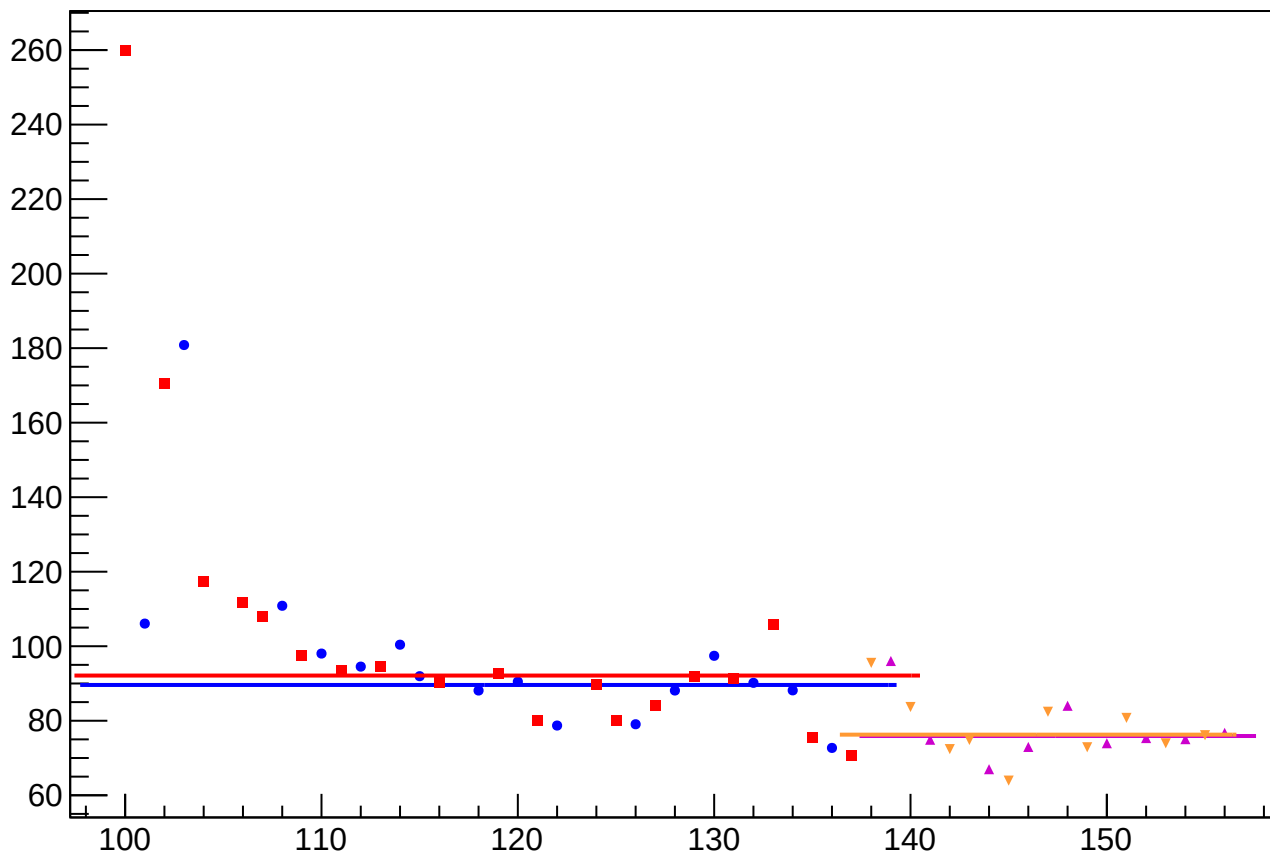
Right: 32.026 $\pm$ 24.453 χ^2 /NDF: 44.3/34

In: 41.165 $\pm$ 21.380 χ^2 /NDF: 30.7/24

Out: 64.497 $\pm$ 21.609 χ^2 /NDF: 32.1/28

All: 52.707 $\pm$ 15.198 χ^2 /NDF: 63.4/53

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: 76.269 $\pm$ 0.019 χ^2 /NDF: 156184.3/9

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 75.904 $\pm$ 0.019 χ^2 /NDF: 125482.9/8

Left: 76.085 $\pm$ 0.014 χ^2 /NDF: 281844.2/18

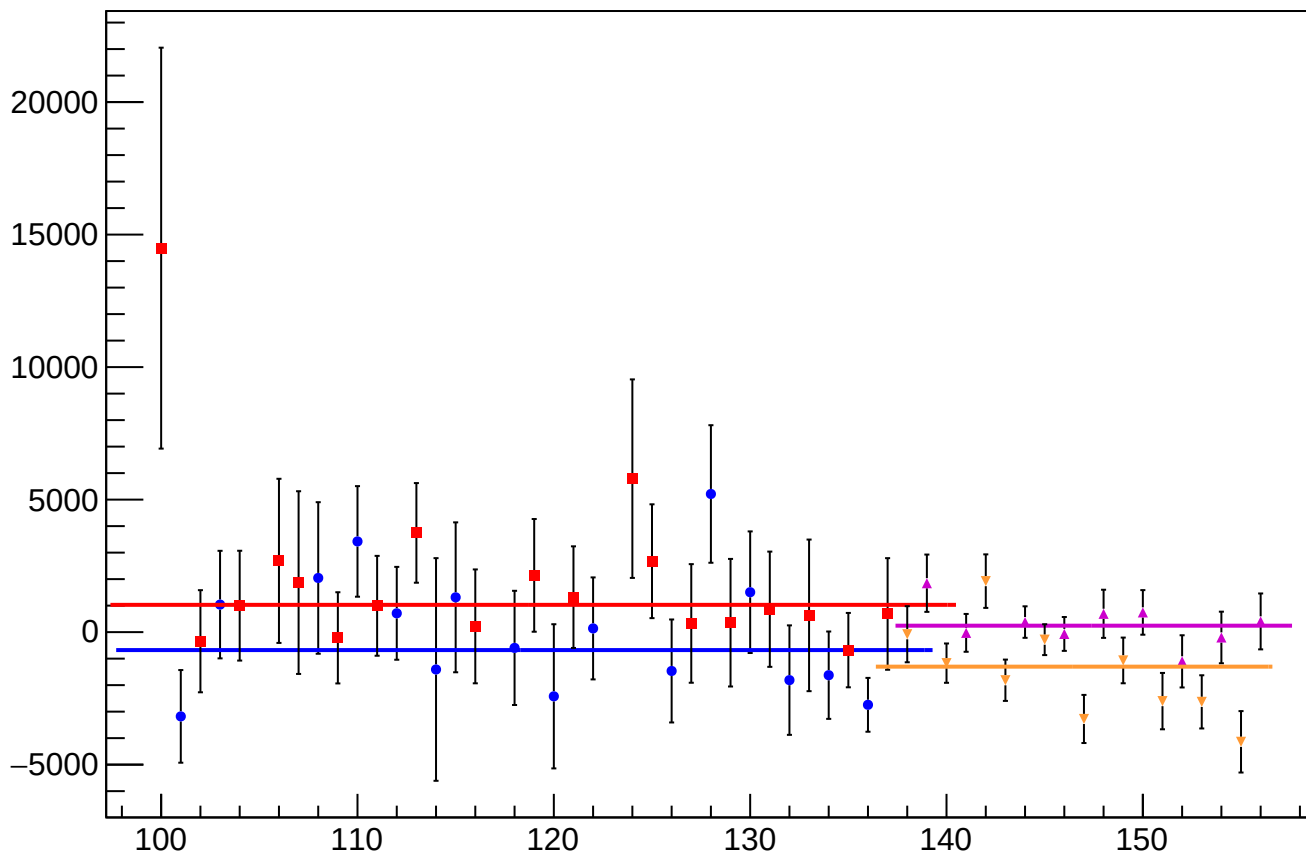
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 81.231 $\pm$ 0.015 χ^2 /NDF: 819030.0/24

Out: 82.354 $\pm$ 0.015 χ^2 /NDF: 951294.1/28

All: 81.786 $\pm$ 0.011 χ^2 /NDF: 1773056.0/53

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: -1302.585+/-272.465 χ^2/NDF :29.1/9

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 243.196+/-270.065 χ^2/NDF :5.3/8

Left: -522.855+/-191.808 χ^2/NDF : 50.7/18

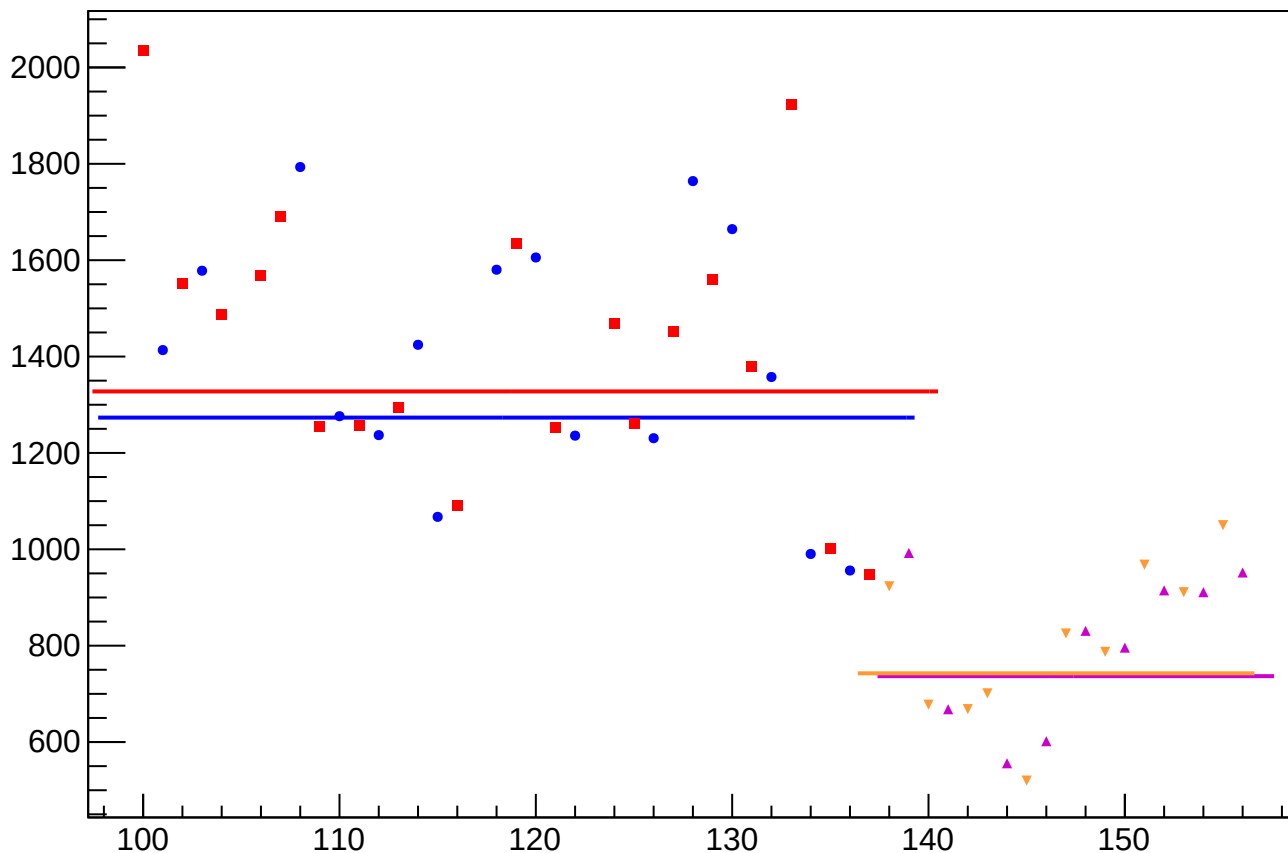
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: 26.336+/-236.121 χ^2/NDF :28.3/24

Out: -763.713+/-238.920 χ^2/NDF :57.0/28

All: -364.034+/-167.944 χ^2/NDF : 90.9/53

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: 742.622+/-0.193 χ^2/NDF : 691872.4/9

Right Out: 1327.661+/-0.351 χ^2/NDF : 458481.2/18

Left In: 736.735+/-0.191 χ^2/NDF : 648778.3/8

Left: 739.653+/-0.136 χ^2/NDF : 1341121.8/18

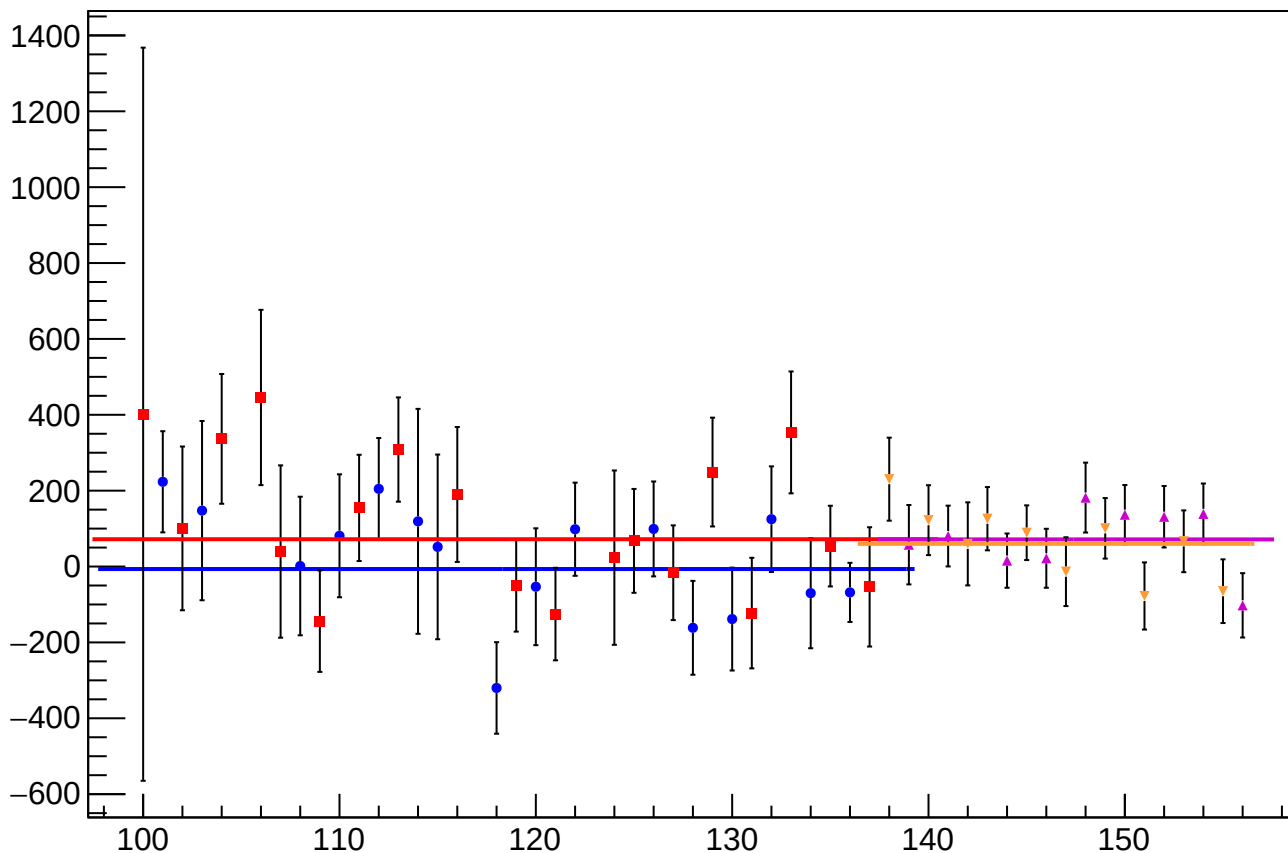
Right: 1299.912+/-0.246 χ^2/NDF : 1068235.5/34

In: 863.145+/-0.167 χ^2/NDF : 3106351.2/24

Out: 877.812+/-0.169 χ^2/NDF : 3281124.0/28

All: 870.392+/-0.119 χ^2/NDF : 6391288.5/53

eigen_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: 59.838 $\pm$ 27.525 χ^2 /NDF: 9.2/9

Right Out: 71.981 $\pm$ 34.885 χ^2 /NDF: 22.8/18

Left In: 71.534 $\pm$ 27.348 χ^2 /NDF: 8.6/8

Left: 65.724 $\pm$ 19.400 χ^2 /NDF: 17.9/18

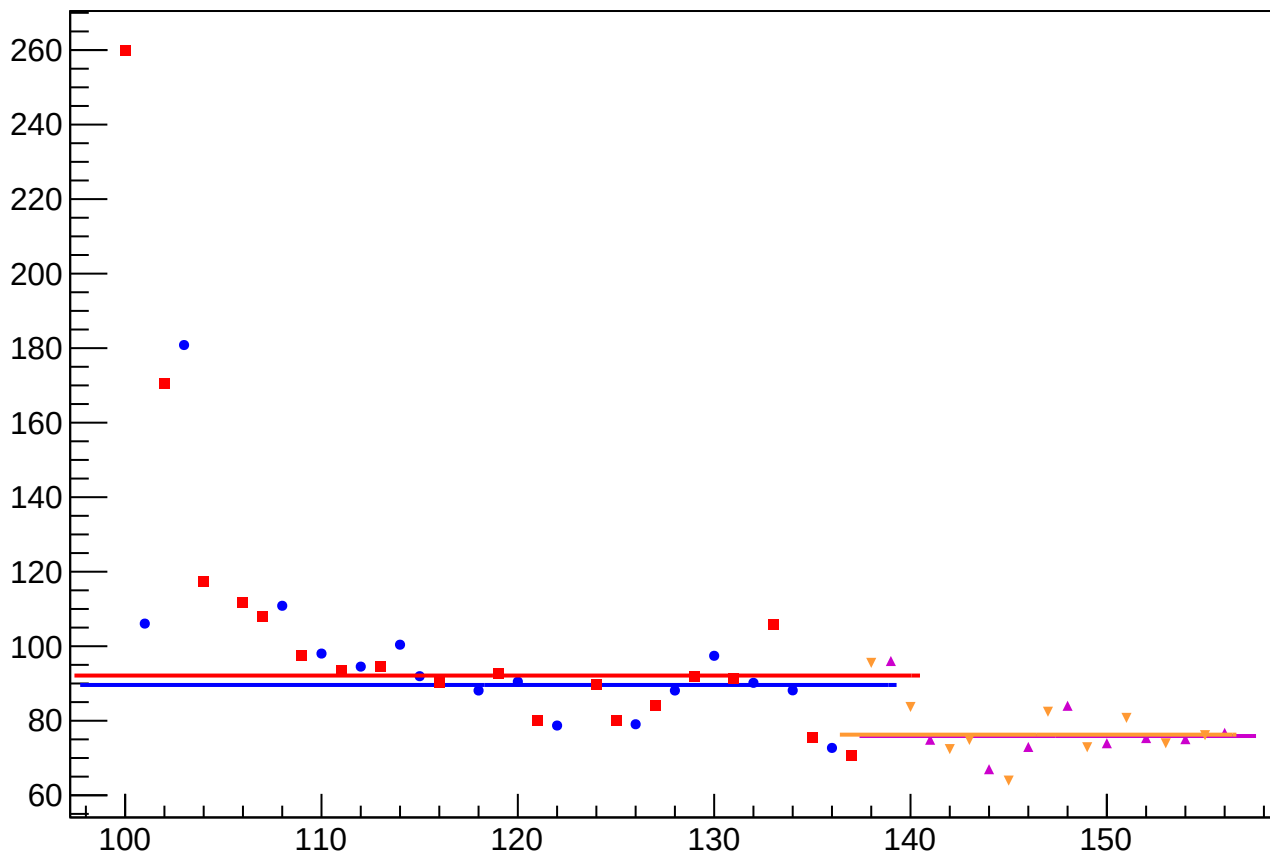
Right: 32.026 $\pm$ 24.453 χ^2 /NDF: 44.3/34

In: 41.165 $\pm$ 21.380 χ^2 /NDF: 30.7/24

Out: 64.497 $\pm$ 21.609 χ^2 /NDF: 32.1/28

All: 52.707 $\pm$ 15.198 χ^2 /NDF: 63.4/53

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: 76.269 $\pm$ 0.019 χ^2 /NDF: 156184.3/9

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 75.904 $\pm$ 0.019 χ^2 /NDF: 125482.9/8

Left: 76.085 $\pm$ 0.014 χ^2 /NDF: 281844.2/18

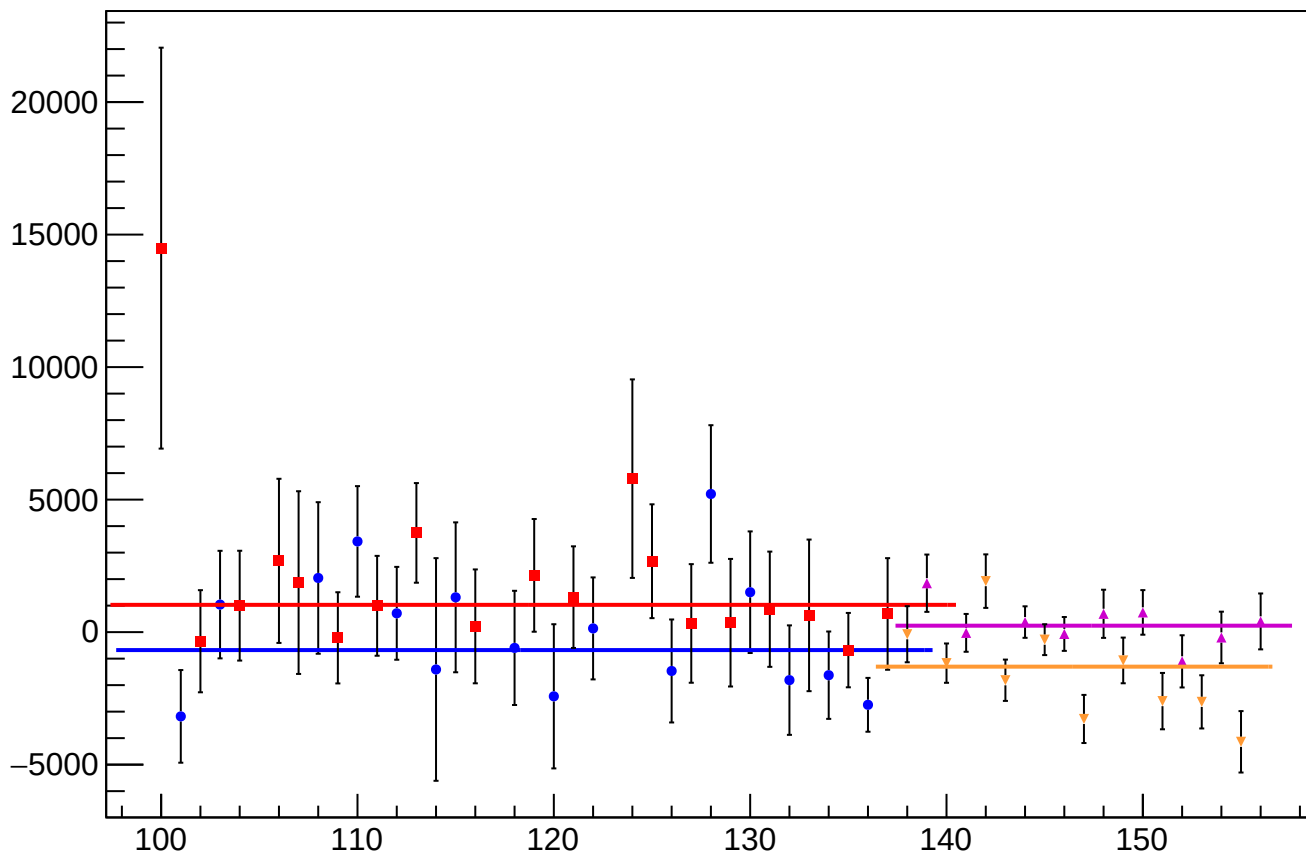
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 81.231 $\pm$ 0.015 χ^2 /NDF: 819030.0/24

Out: 82.354 $\pm$ 0.015 χ^2 /NDF: 951294.1/28

All: 81.786 $\pm$ 0.011 χ^2 /NDF: 1773056.0/53

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: -1302.585+/-272.465 χ^2/NDF :29.1/9

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 243.196+/-270.065 χ^2/NDF :5.3/8

Left: -522.855+/-191.808 χ^2/NDF : 50.7/18

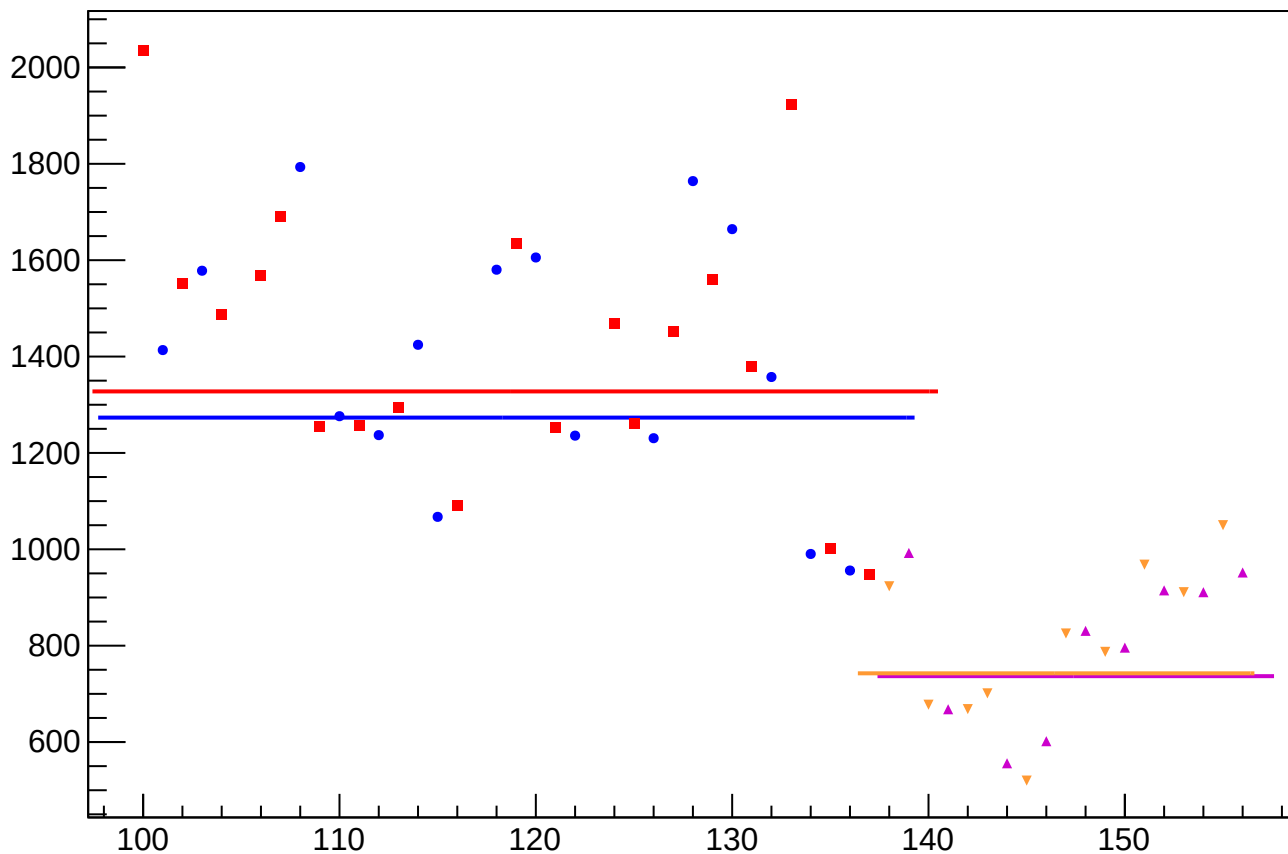
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: 26.336+/-236.121 χ^2/NDF :28.3/24

Out: -763.713+/-238.920 χ^2/NDF :57.0/28

All: -364.034+/-167.944 χ^2/NDF : 90.9/53

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: 742.622+/-0.193 χ^2/NDF : 691872.4/9

Right Out: 1327.661+/-0.351 χ^2/NDF : 458481.2/18

Left In: 736.735+/-0.191 χ^2/NDF : 648778.3/8

Left: 739.653+/-0.136 χ^2/NDF : 1341121.8/18

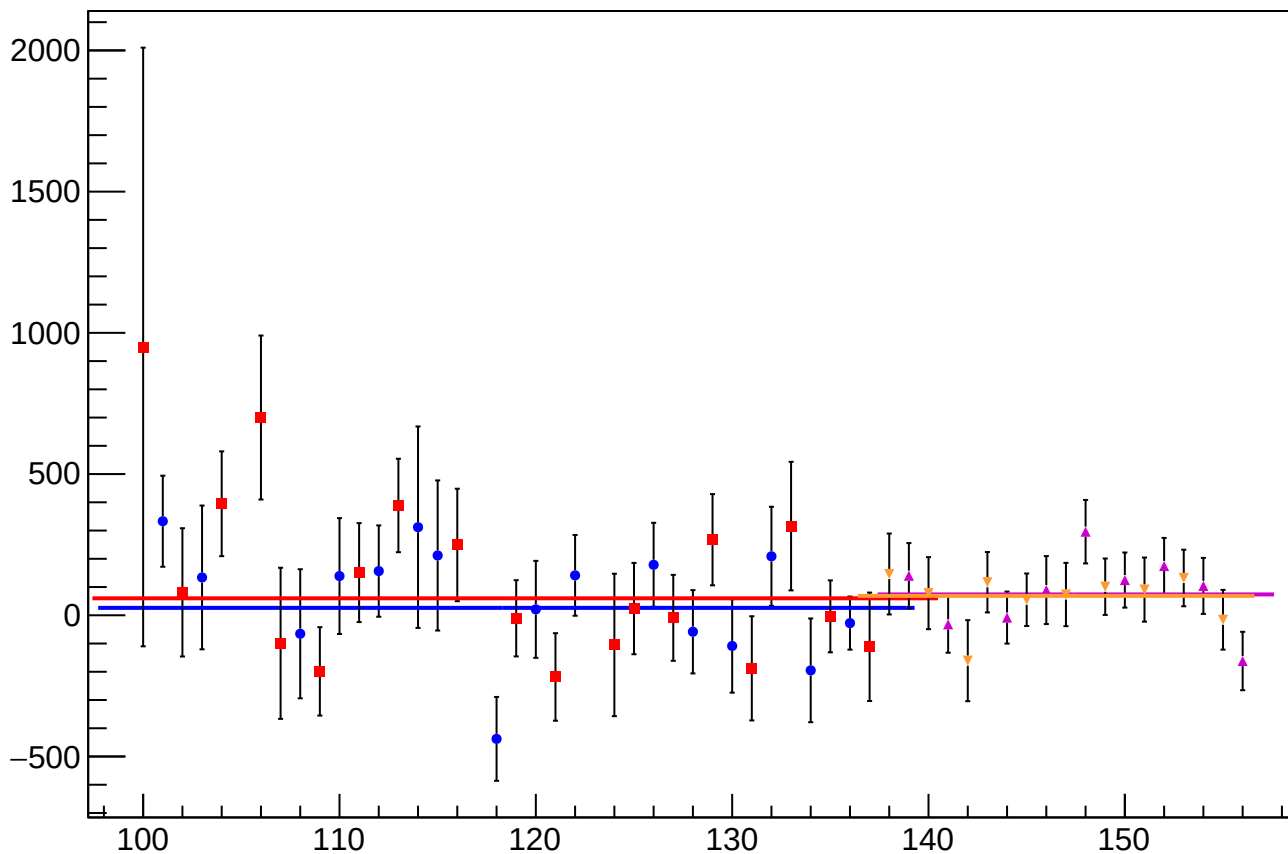
Right: 1299.912+/-0.246 χ^2/NDF : 1068235.5/34

In: 863.145+/-0.167 χ^2/NDF : 3106351.2/24

Out: 877.812+/-0.169 χ^2/NDF : 3281124.0/28

All: 870.392+/-0.119 χ^2/NDF : 6391288.5/53

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: 68.679 $\pm$ 35.166 χ^2 /NDF:4.3/9

Right Out: 60.119 $\pm$ 41.528 χ^2 /NDF: 27.0/18

Left In: 73.804 $\pm$ 34.473 χ^2 /NDF:12.7/8

Left: 71.293 $\pm$ 24.617 χ^2 /NDF: 17.0/18

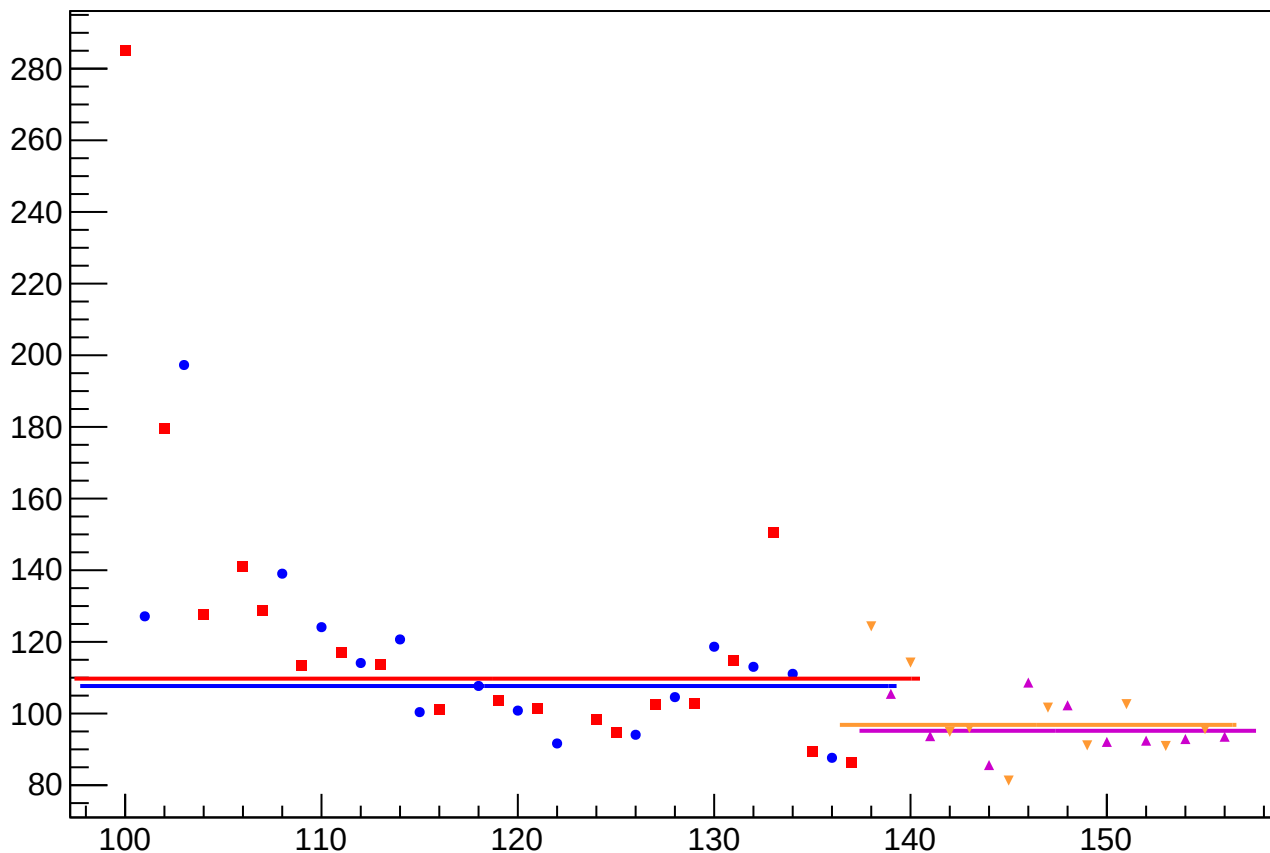
Right: 43.059 $\pm$ 29.255 χ^2 /NDF: 48.7/34

In: 54.233 $\pm$ 26.444 χ^2 /NDF:34.9/24

Out: 65.105 $\pm$ 26.837 χ^2 /NDF:31.3/28

All: 59.589 $\pm$ 18.836 χ^2 /NDF: 66.3/53

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: 96.838 $\pm$ 0.025 χ^2 /NDF:189892.5/9

Right Out: 109.739 $\pm$ 0.029 χ^2 /NDF: 491787.3/18

Left In: 95.183 $\pm$ 0.024 χ^2 /NDF:76092.5/8

Left: 95.994 $\pm$ 0.017 χ^2 /NDF: 268243.8/18

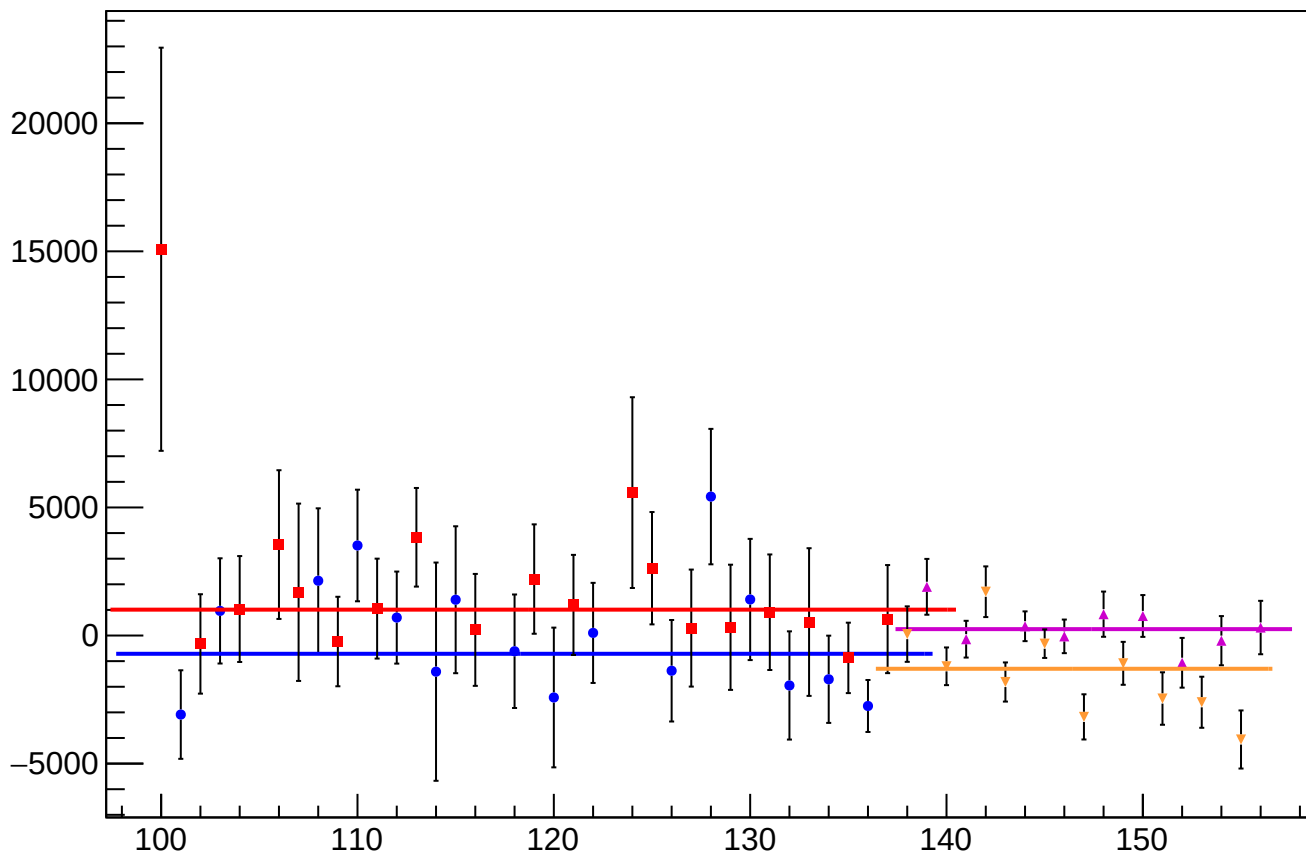
Right: 108.702 $\pm$ 0.021 χ^2 /NDF: 977390.9/34

In: 100.326 $\pm$ 0.019 χ^2 /NDF:667391.8/24

Out: 102.226 $\pm$ 0.019 χ^2 /NDF:794101.1/28

All: 101.262 $\pm$ 0.013 χ^2 /NDF: 1466575.7/53

asym_sam_2468_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -712.887 $\pm$ 493.253 χ^2 /NDF: 20.1/15

Left Out: -1297.846 $\pm$ 266.246 χ^2 /NDF:27.9/9

Right Out: 1010.557 $\pm$ 501.374 χ^2 /NDF: 11.8/18

Left In: 249.822 $\pm$ 268.030 χ^2 /NDF:5.7/8

Left: -529.179 $\pm$ 188.892 χ^2 /NDF: 50.4/18

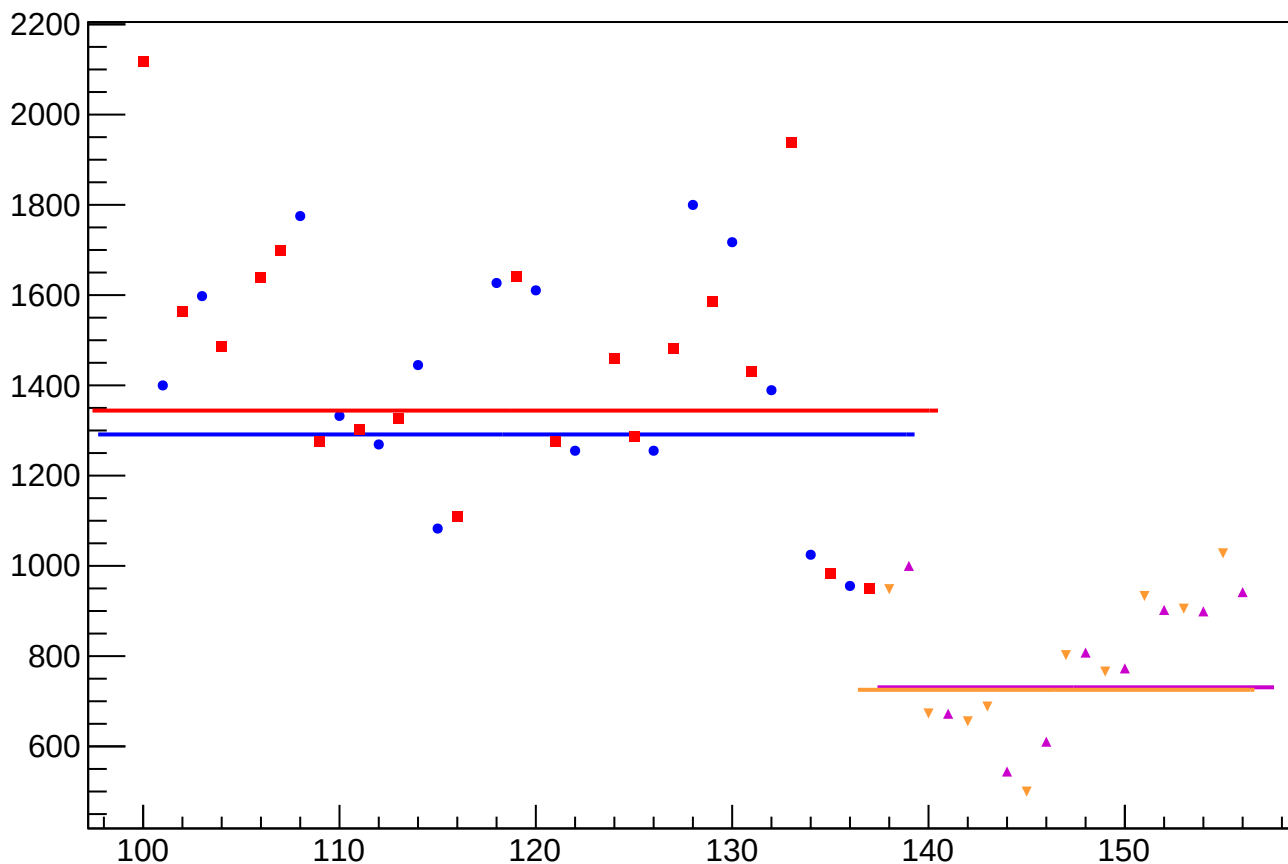
Right: 134.764 $\pm$ 351.618 χ^2 /NDF: 37.9/34

In: 30.359 $\pm$ 235.506 χ^2 /NDF:28.8/24

Out: -790.074 $\pm$ 235.147 χ^2 /NDF:56.2/28

All: -380.483 $\pm$ 166.401 χ^2 /NDF: 91.0/53

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: 725.395+/-0.188 χ^2/NDF : 747550.5/9

Right Out: 1344.118+/-0.355 χ^2/NDF : 490963.7/18

Left In: 730.920+/-0.190 χ^2/NDF : 635094.4/8

Left: 728.139+/-0.134 χ^2/NDF : 1383072.7/18

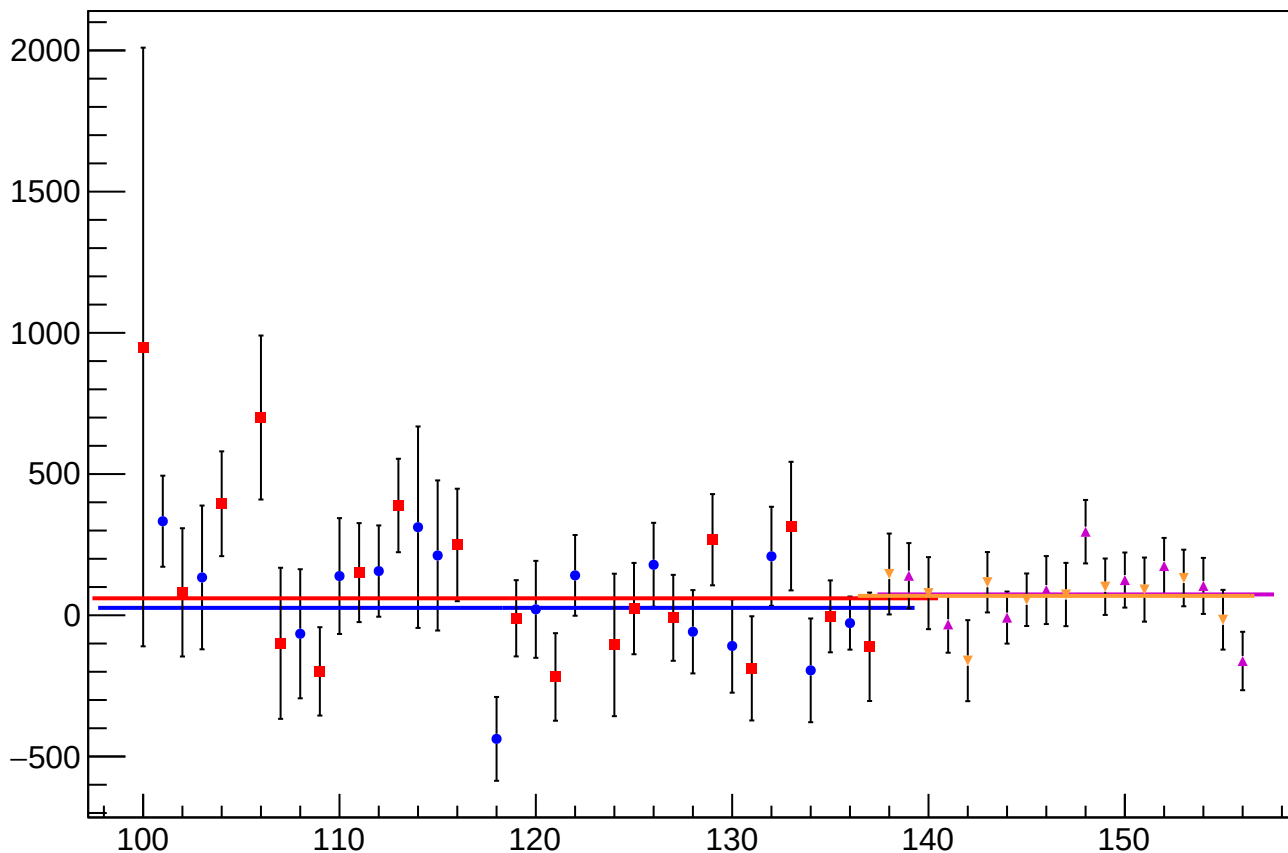
Right: 1317.239+/-0.249 χ^2/NDF : 1113173.0/34

In: 858.649+/-0.167 χ^2/NDF : 3238379.5/24

Out: 861.493+/-0.166 χ^2/NDF : 3614329.7/28

All: 860.073+/-0.118 χ^2/NDF : 6852855.3/53

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: 68.680 $\pm$ 35.166 χ^2 /NDF: 4.3/9

Right Out: 60.117 $\pm$ 41.528 χ^2 /NDF: 27.0/18

Left In: 73.805 $\pm$ 34.473 χ^2 /NDF: 12.7/8

Left: 71.293 $\pm$ 24.617 χ^2 /NDF: 17.0/18

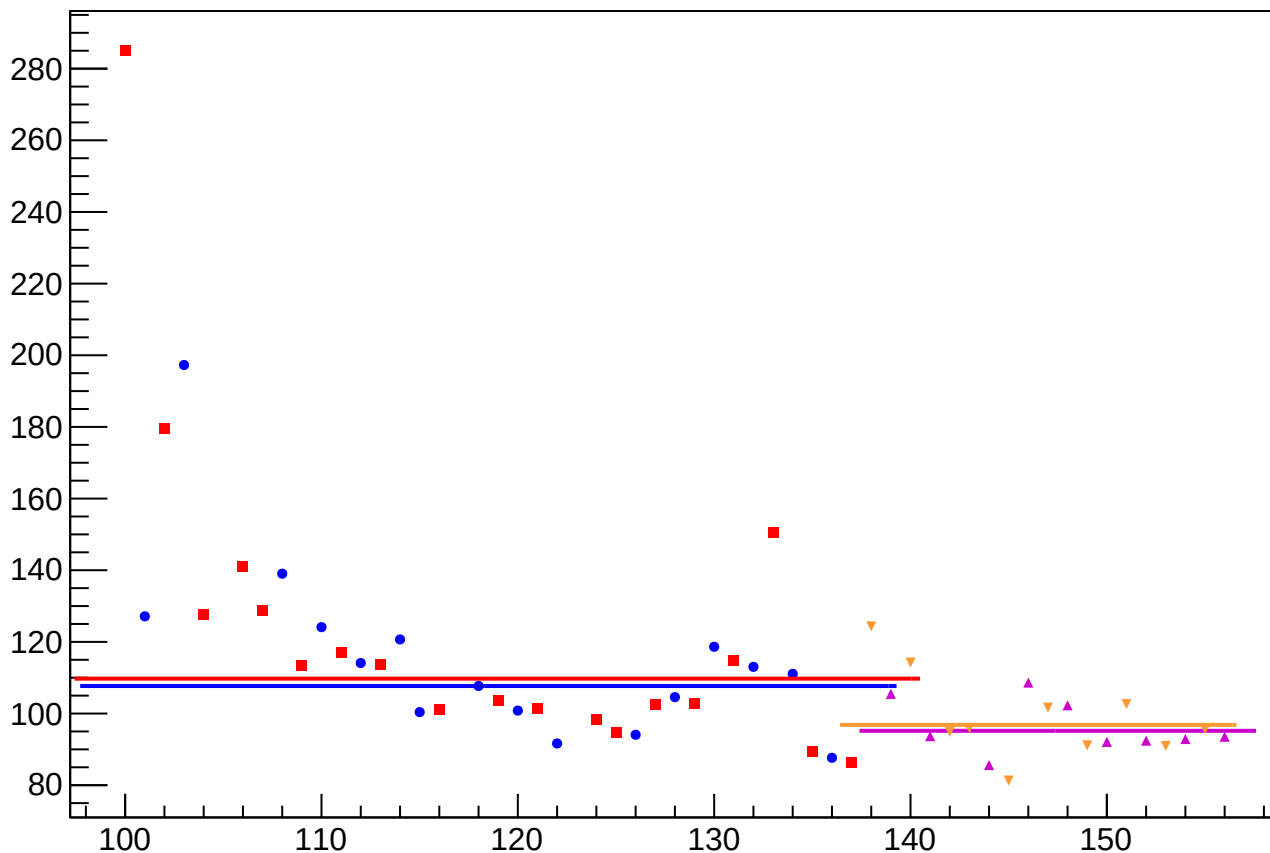
Right: 43.058 $\pm$ 29.255 χ^2 /NDF: 48.7/34

In: 54.233 $\pm$ 26.444 χ^2 /NDF: 34.9/24

Out: 65.104 $\pm$ 26.837 χ^2 /NDF: 31.3/28

All: 59.588 $\pm$ 18.836 χ^2 /NDF: 66.3/53

eigen_dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.679+/-0.029 χ^2/NDF : 483112.2/15

Left Out: 96.838+/-0.025 χ^2/NDF :189880.2/9

Right Out: 109.739+/-0.029 χ^2/NDF : 491784.5/18

Left In: 95.183+/-0.024 χ^2/NDF :76089.5/8

Left: 95.994+/-0.017 χ^2/NDF : 268228.6/18

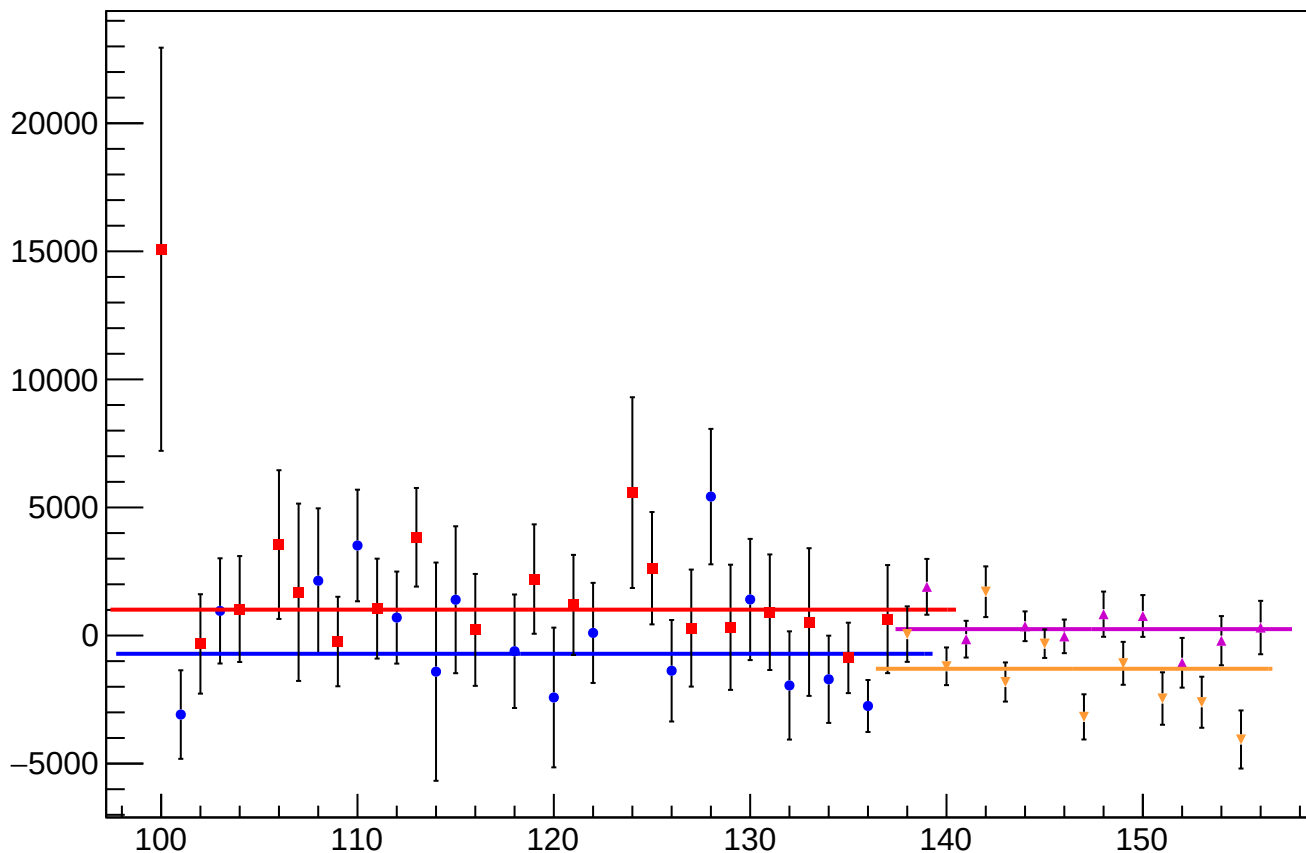
Right: 108.701+/-0.021 χ^2/NDF : 977375.0/34

In: 100.326+/-0.019 χ^2/NDF :667355.2/24

Out: 102.226+/-0.019 χ^2/NDF :794066.7/28

All: 101.262+/-0.013 χ^2/NDF : 1466505.0/53

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: -1297.844 ± 266.246 $\chi^2/\text{NDF}: 27.9/9$

Right Out: 1010.556 ± 501.373 $\chi^2/\text{NDF}: 11.8/18$

Left In: 249.822 ± 268.030 $\chi^2/\text{NDF}: 5.7/8$

Left: -529.179 ± 188.892 $\chi^2/\text{NDF}: 50.4/18$

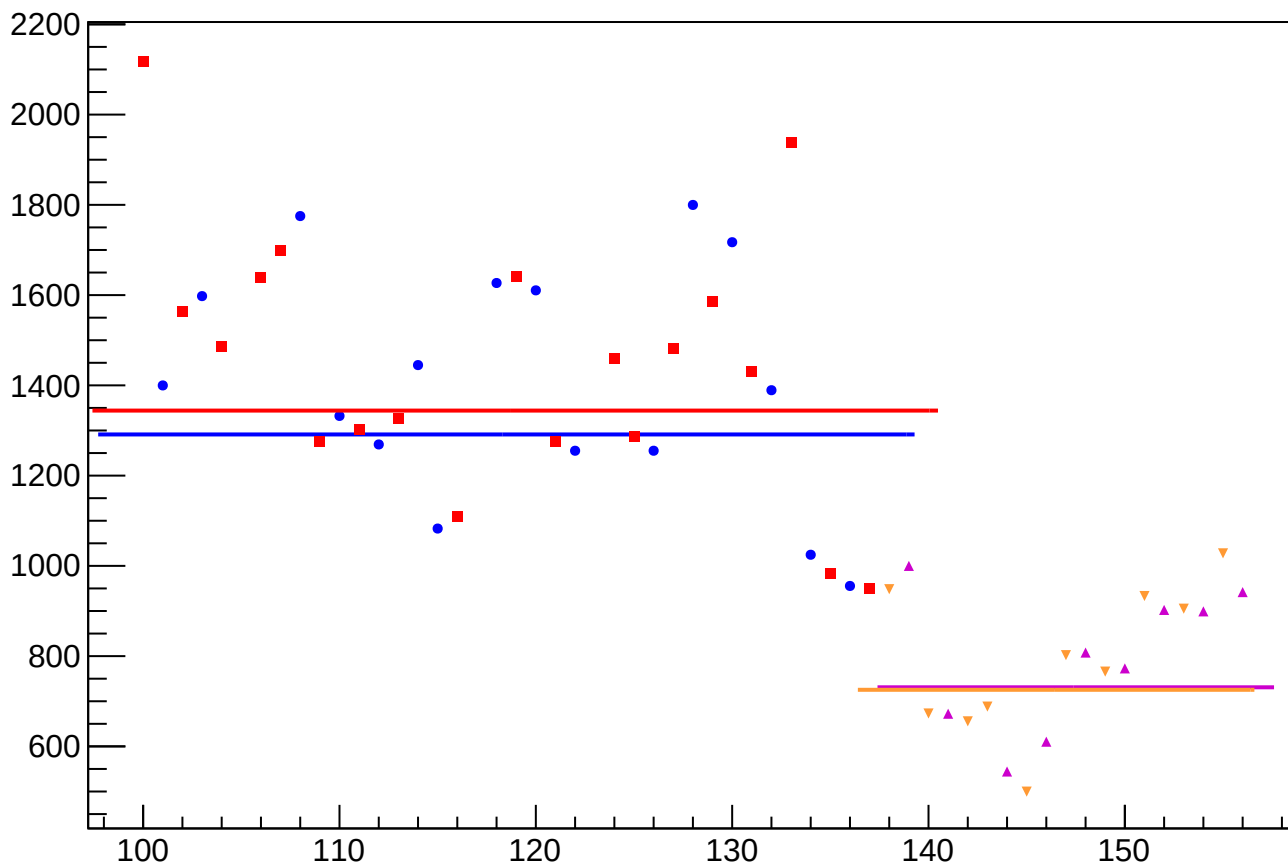
Right: 134.766 ± 351.618 $\chi^2/\text{NDF}: 37.9/34$

In: 30.360 ± 235.506 $\chi^2/\text{NDF}: 28.8/24$

Out: -790.073 ± 235.147 $\chi^2/\text{NDF}: 56.2/28$

All: -380.483 ± 166.401 $\chi^2/\text{NDF}: 91.0/53$

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: 725.393+/-0.188 χ^2/NDF : 747557.6/9

Right Out: 1344.115+/-0.355 χ^2/NDF : 490963.4/18

Left In: 730.919+/-0.190 χ^2/NDF : 635095.3/8

Left: 728.138+/-0.134 χ^2/NDF : 1383080.8/18

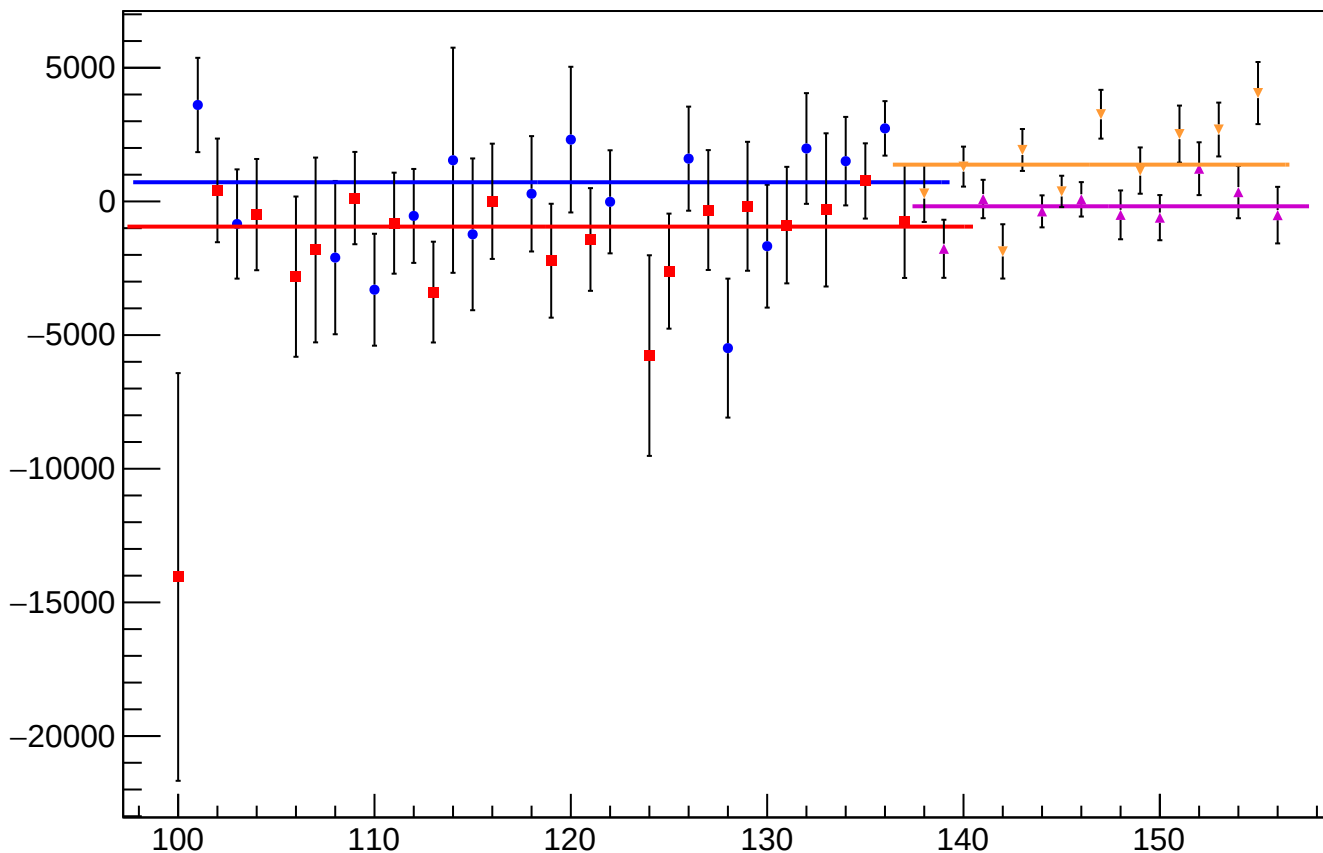
Right: 1317.235+/-0.249 χ^2/NDF : 1113170.2/34

In: 858.648+/-0.167 χ^2/NDF : 3238372.3/24

Out: 861.491+/-0.166 χ^2/NDF : 3614335.1/28

All: 860.072+/-0.118 χ^2/NDF : 6852853.4/53

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 717.617 $\pm$ 488.239 χ^2 /NDF: 21.0/15

Left Out: 1376.168 $\pm$ 274.056 χ^2 /NDF:27.1/9

Right Out: -942.308 $\pm$ 498.052 χ^2 /NDF: 10.6/18

Left In: -181.894 $\pm$ 271.644 χ^2 /NDF:5.3/8

Left: 590.252 $\pm$ 192.929 χ^2 /NDF: 48.8/18

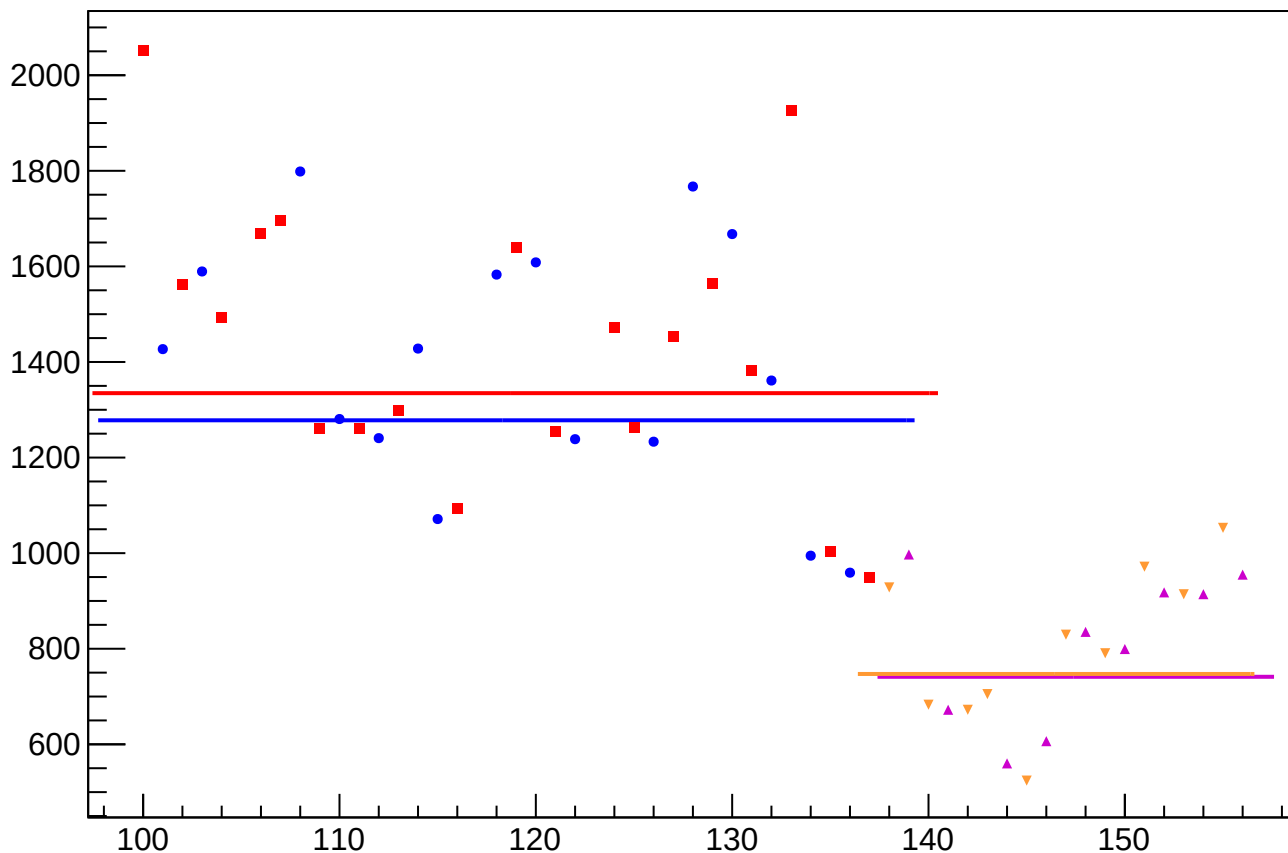
Right: -95.832 $\pm$ 348.655 χ^2 /NDF: 37.2/34

In: 30.734 $\pm$ 237.377 χ^2 /NDF:28.9/24

Out: 837.327 $\pm$ 240.106 χ^2 /NDF:54.4/28

All: 429.420 $\pm$ 168.808 χ^2 /NDF: 89.0/53

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1277.979+/-0.345 χ^2/NDF : 597666.8/15

Left Out: 747.214+/-0.194 χ^2/NDF : 681840.4/9

Right Out: 1334.775+/-0.352 χ^2/NDF : 471897.2/18

Left In: 741.308+/-0.192 χ^2/NDF : 638851.4/8

Left: 744.235+/-0.136 χ^2/NDF : 1321160.4/18

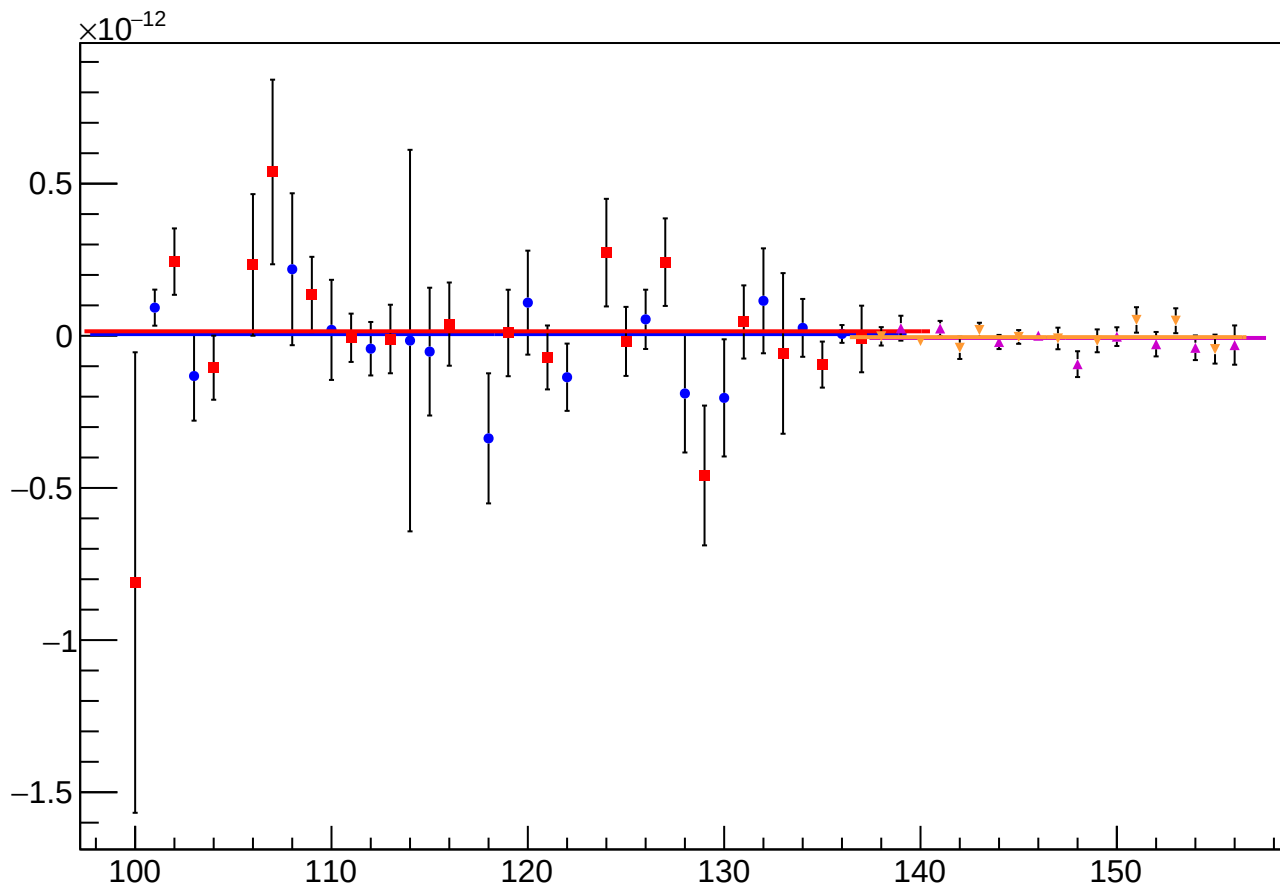
Right: 1305.812+/-0.247 χ^2/NDF : 1082827.2/34

In: 868.167+/-0.168 χ^2/NDF : 3081781.8/24

Out: 883.770+/-0.170 χ^2/NDF : 3290297.7/28

All: 875.879+/-0.119 χ^2/NDF : 6376350.8/53

asym_sam_2468_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 : 6.9/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.0/8

Left: -0.000+/-0.000 χ^2/NDF : 14.9/18

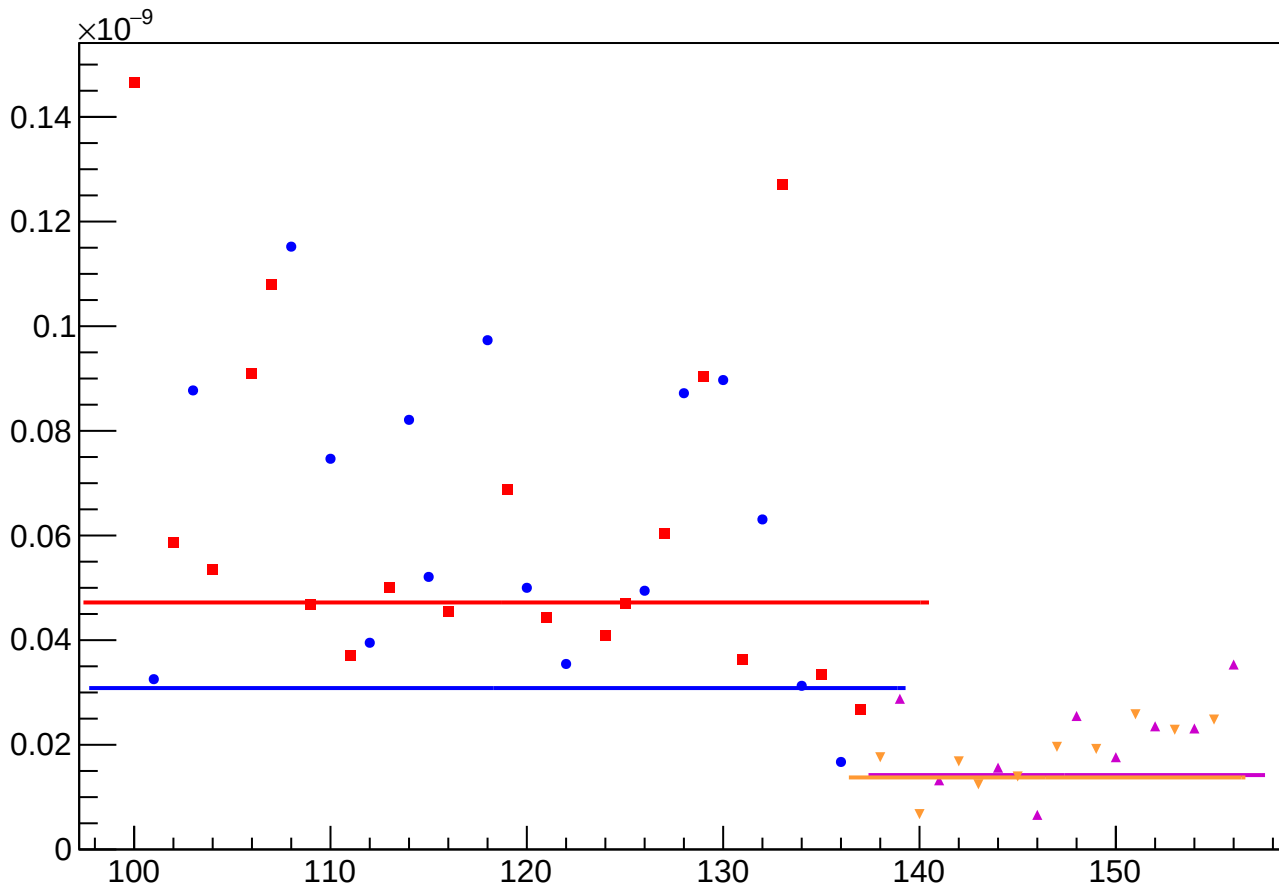
Right: 0.000+/-0.000 χ^2/NDF : 35.5/34

In: -0.000+/-0.000 χ^2/NDF : 19.9/24

Out: -0.000+/-0.000 χ^2/NDF : 31.1/28

All: -0.000+/-0.000 χ^2/NDF : 51.0/53

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 : 947165.0/9

Right Out: 0.000+/-0.000 χ^2/NDF : 722091.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1396517.1/8

Left: 0.000+/-0.000 χ^2/NDF : 2346209.5/18

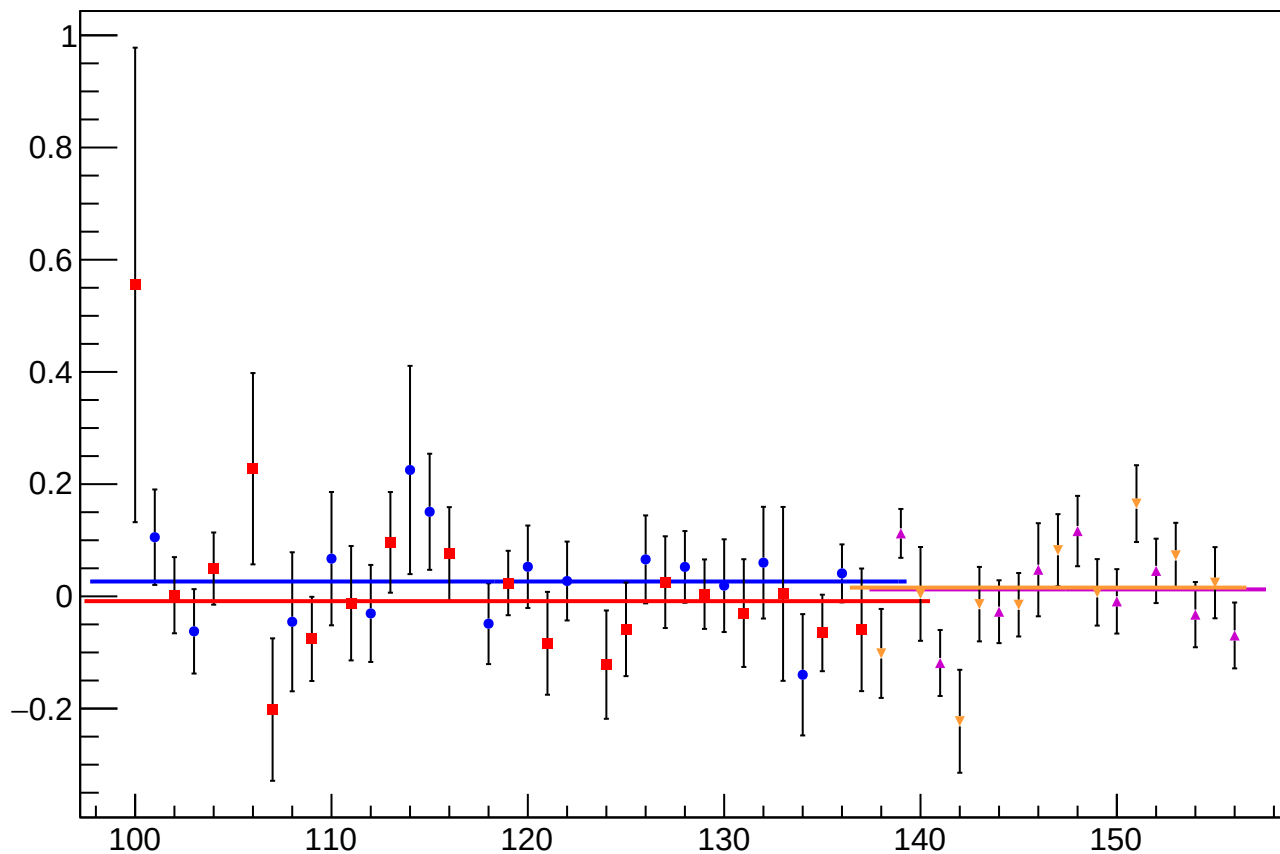
Right: 0.000+/-0.000 χ^2/NDF : 3051679.0/34

In: 0.000+/-0.000 χ^2/NDF : 4315966.2/24

Out: 0.000+/-0.000 χ^2/NDF : 4164713.5/28

All: 0.000+/-0.000 χ^2/NDF : 8480899.2/53

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: 0.016 ± 0.021 $\chi^2/\text{NDF}: 16.3/9$

Right Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 13.9/18$

Left In: 0.012 ± 0.019 $\chi^2/\text{NDF}: 16.7/8$

Left: 0.014 ± 0.014 $\chi^2/\text{NDF}: 33.0/18$

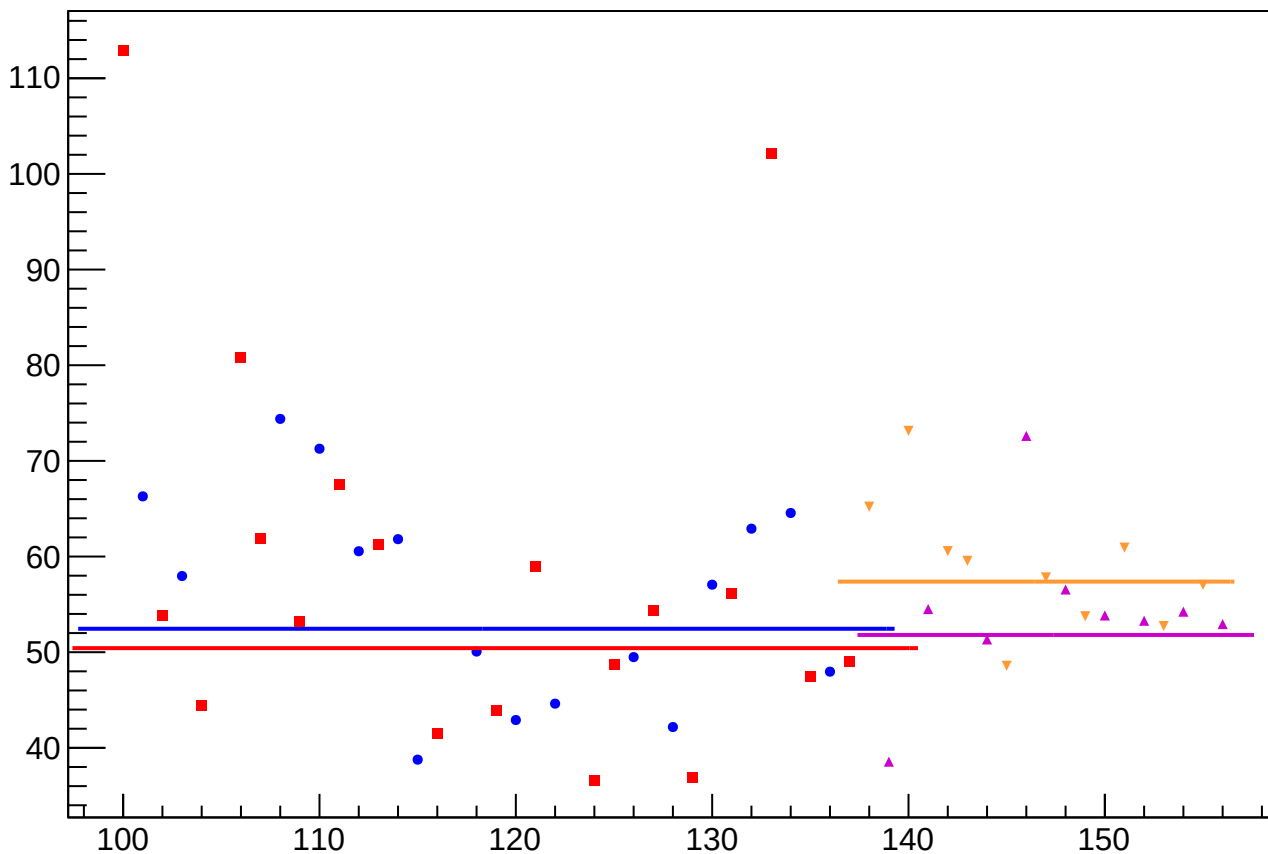
Right: 0.008 ± 0.014 $\chi^2/\text{NDF}: 25.4/34$

In: 0.019 ± 0.014 $\chi^2/\text{NDF}: 26.9/24$

Out: 0.003 ± 0.014 $\chi^2/\text{NDF}: 31.0/28$

All: 0.011 ± 0.010 $\chi^2/\text{NDF}: 58.5/53$

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: 57.378+/-0.015 χ^2/NDF : 169321.5/9

Right Out: 50.423+/-0.014 χ^2/NDF : 676747.2/18

Left In: 51.804+/-0.014 χ^2/NDF : 334869.2/8

Left: 54.321+/-0.010 χ^2/NDF : 580726.9/18

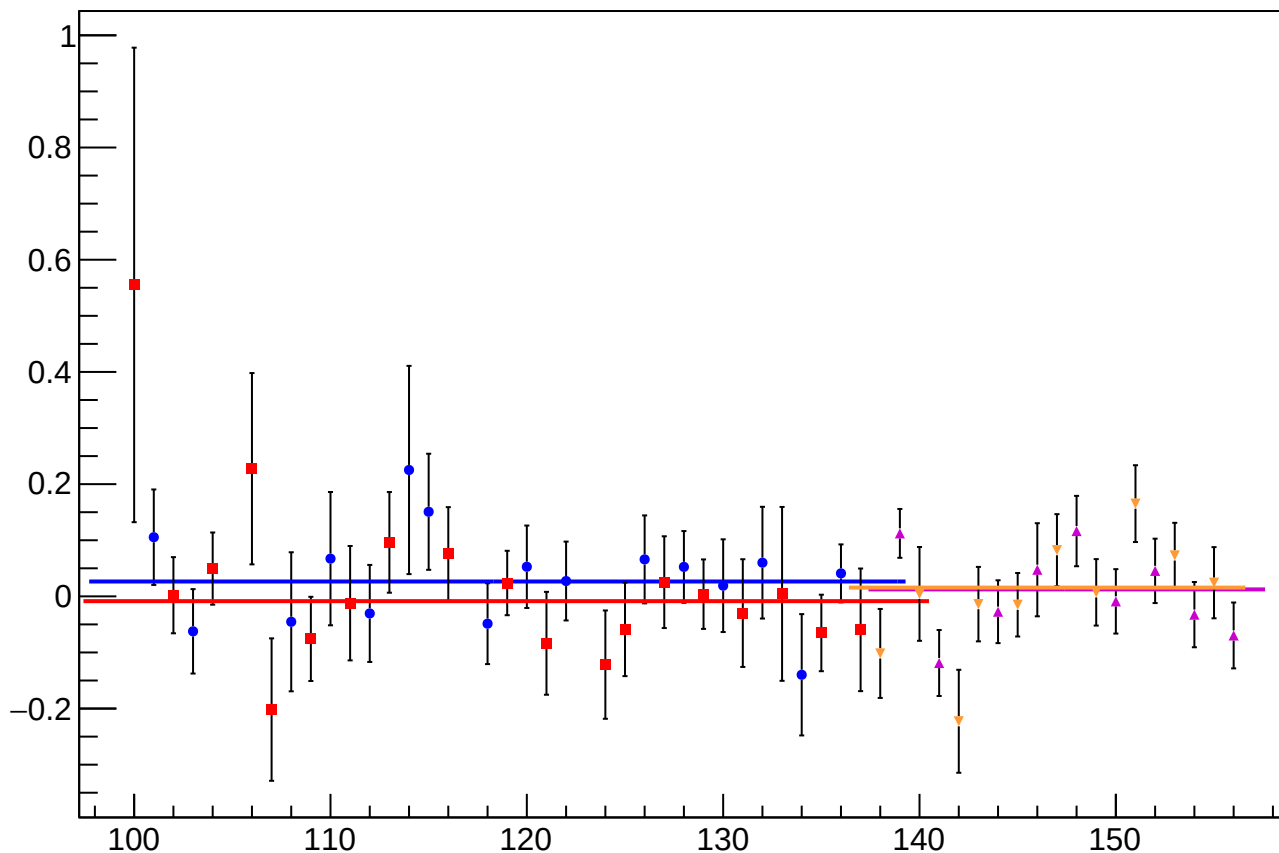
Right: 51.390+/-0.010 χ^2/NDF : 1105100.5/34

In: 52.107+/-0.010 χ^2/NDF : 753952.1/24

Out: 53.623+/-0.010 χ^2/NDF : 963382.6/28

All: 52.846+/-0.007 χ^2/NDF : 1728826.6/53

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.020 $\chi^2/\text{NDF}: 9.9/15$

Left Out: 0.016 ± 0.021 $\chi^2/\text{NDF}: 16.3/9$

Right Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 13.9/18$

Left In: 0.012 ± 0.019 $\chi^2/\text{NDF}: 16.7/8$

Left: 0.014 ± 0.014 $\chi^2/\text{NDF}: 33.0/18$

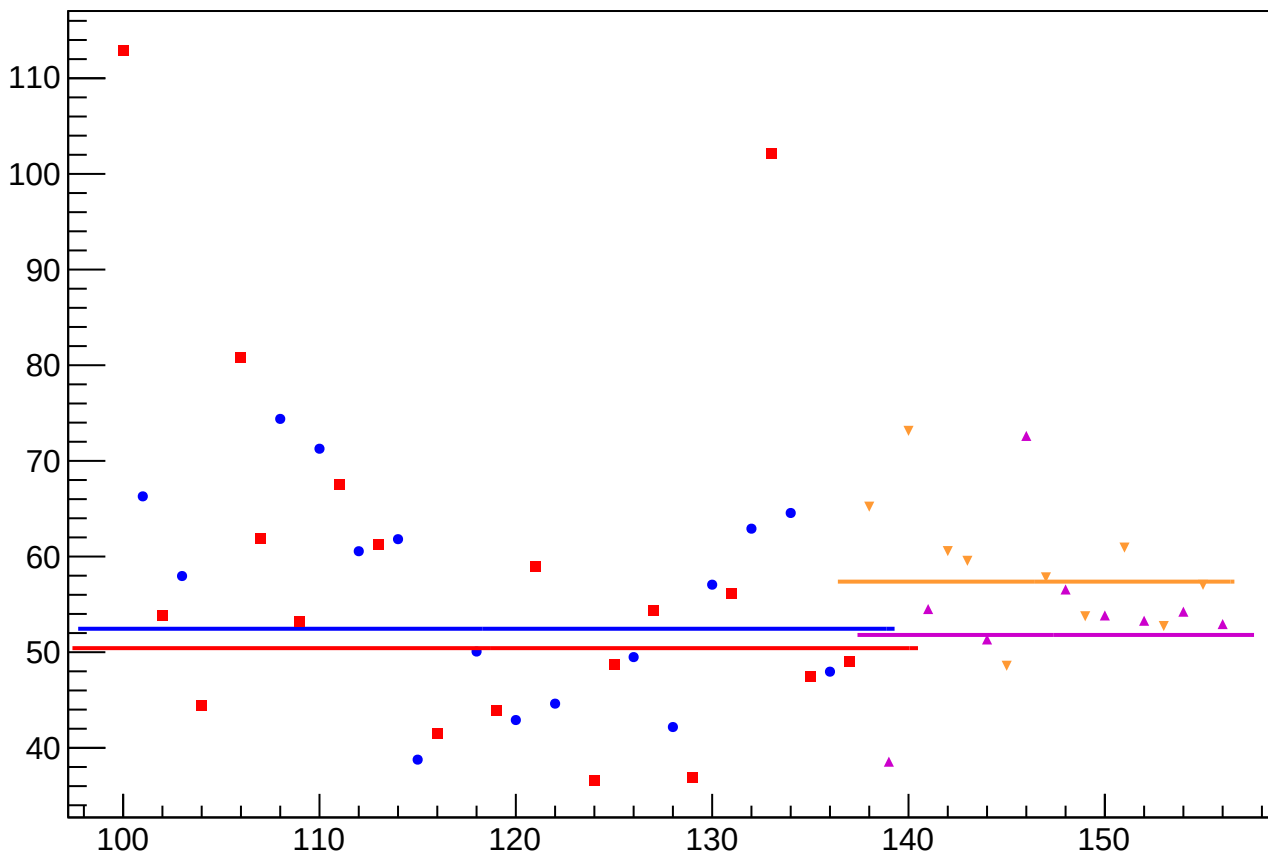
Right: 0.008 ± 0.014 $\chi^2/\text{NDF}: 25.4/34$

In: 0.019 ± 0.014 $\chi^2/\text{NDF}: 26.9/24$

Out: 0.003 ± 0.014 $\chi^2/\text{NDF}: 31.0/28$

All: 0.011 ± 0.010 $\chi^2/\text{NDF}: 58.5/53$

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: 57.378+/-0.015 χ^2/NDF : 169321.5/9

Right Out: 50.423+/-0.014 χ^2/NDF : 676747.2/18

Left In: 51.804+/-0.014 χ^2/NDF : 334869.2/8

Left: 54.321+/-0.010 χ^2/NDF : 580726.9/18

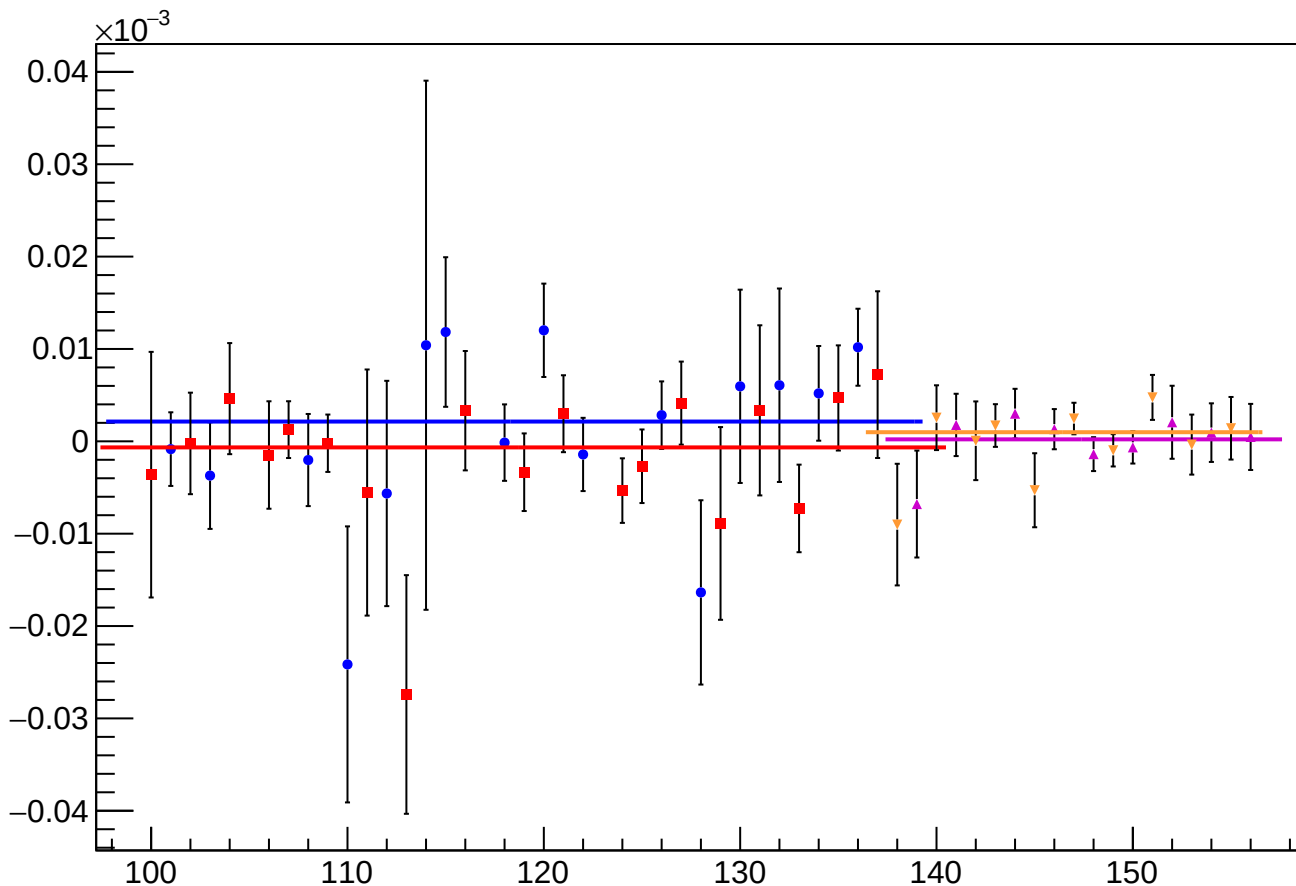
Right: 51.390+/-0.010 χ^2/NDF : 1105100.5/34

In: 52.107+/-0.010 χ^2/NDF : 753952.1/24

Out: 53.623+/-0.010 χ^2/NDF : 963382.6/28

All: 52.846+/-0.007 χ^2/NDF : 1728826.6/53

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 20.1/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 9.7/9

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.8/18

Left In: 0.000 ± 0.000 χ^2/NDF : 4.3/8

Left: 0.000 ± 0.000 χ^2/NDF : 14.4/18

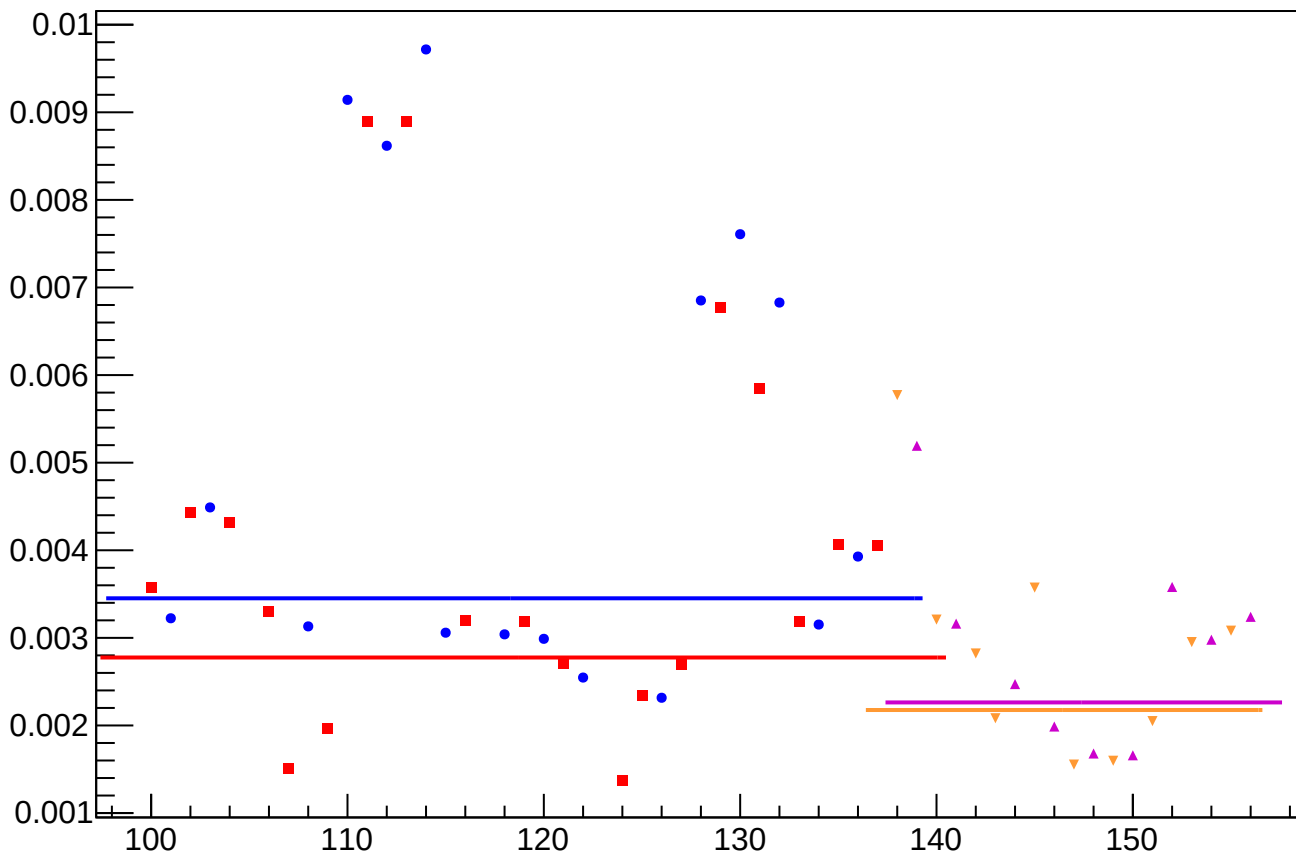
Right: 0.000 ± 0.000 χ^2/NDF : 37.3/34

In: 0.000 ± 0.000 χ^2/NDF : 25.7/24

Out: 0.000 ± 0.000 χ^2/NDF : 25.9/28

All: 0.000 ± 0.000 χ^2/NDF : 51.7/53

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: 0.002+/-0.000 χ^2/NDF : 1809516.7/9

Right Out: 0.003+/-0.000 χ^2/NDF : 2734939.6/18

Left In: 0.002+/-0.000 χ^2/NDF : 1611316.2/8

Left: 0.002+/-0.000 χ^2/NDF : 3431155.4/18

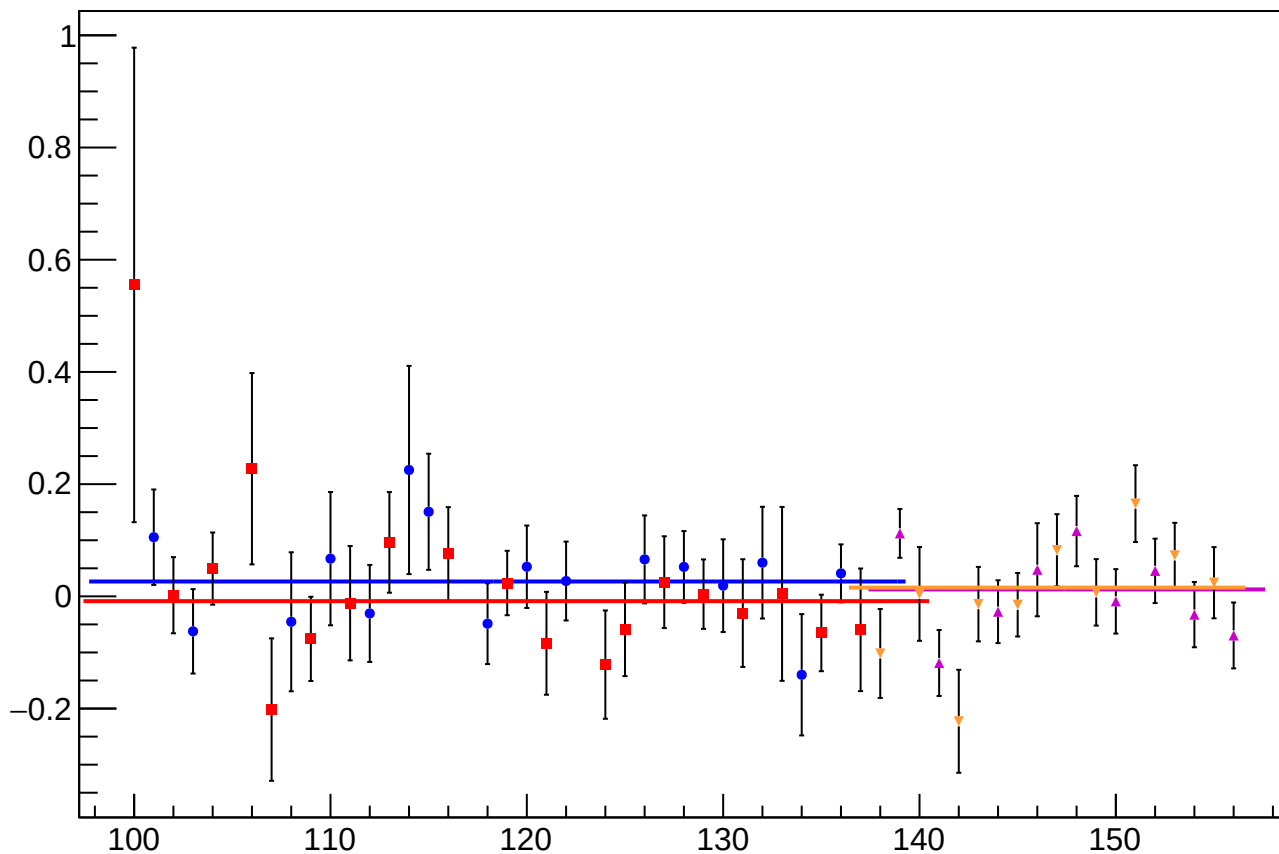
Right: 0.003+/-0.000 χ^2/NDF : 4968092.4/34

In: 0.003+/-0.000 χ^2/NDF : 4620140.5/24

Out: 0.002+/-0.000 χ^2/NDF : 4900417.2/28

All: 0.002+/-0.000 χ^2/NDF : 9611645.0/53

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.020 $\chi^2/\text{NDF}: 9.9/15$

Left Out: 0.016 ± 0.021 $\chi^2/\text{NDF}: 16.3/9$

Right Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 13.9/18$

Left In: 0.012 ± 0.019 $\chi^2/\text{NDF}: 16.7/8$

Left: 0.014 ± 0.014 $\chi^2/\text{NDF}: 33.0/18$

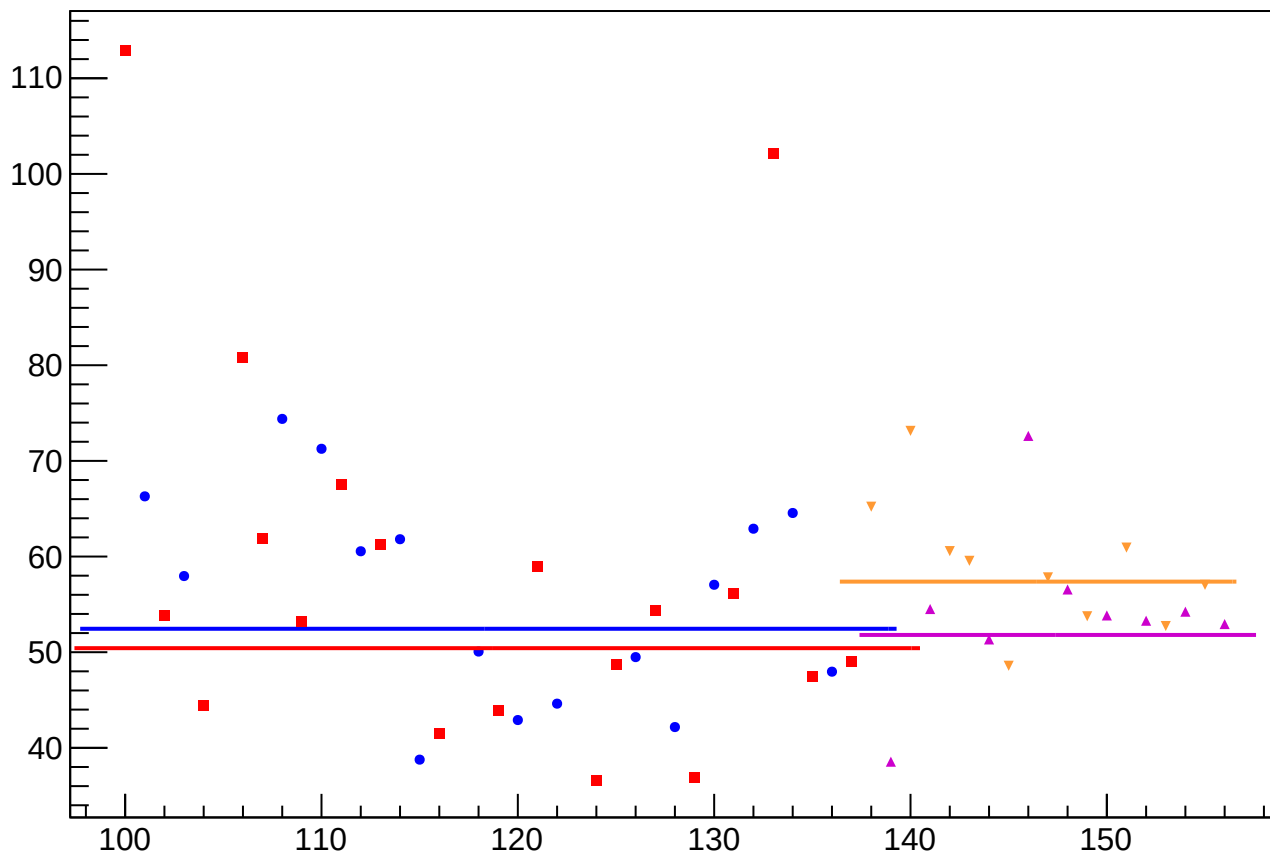
Right: 0.008 ± 0.014 $\chi^2/\text{NDF}: 25.4/34$

In: 0.019 ± 0.014 $\chi^2/\text{NDF}: 26.9/24$

Out: 0.003 ± 0.014 $\chi^2/\text{NDF}: 31.0/28$

All: 0.011 ± 0.010 $\chi^2/\text{NDF}: 58.5/53$

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450 $\pm$ 0.014 χ^2 /NDF: 417967.5/15

Left Out: 57.379 $\pm$ 0.015 χ^2 /NDF: 169293.8/9

Right Out: 50.422 $\pm$ 0.014 χ^2 /NDF: 676753.5/18

Left In: 51.805 $\pm$ 0.014 χ^2 /NDF: 334919.7/8

Left: 54.321 $\pm$ 0.010 χ^2 /NDF: 580759.5/18

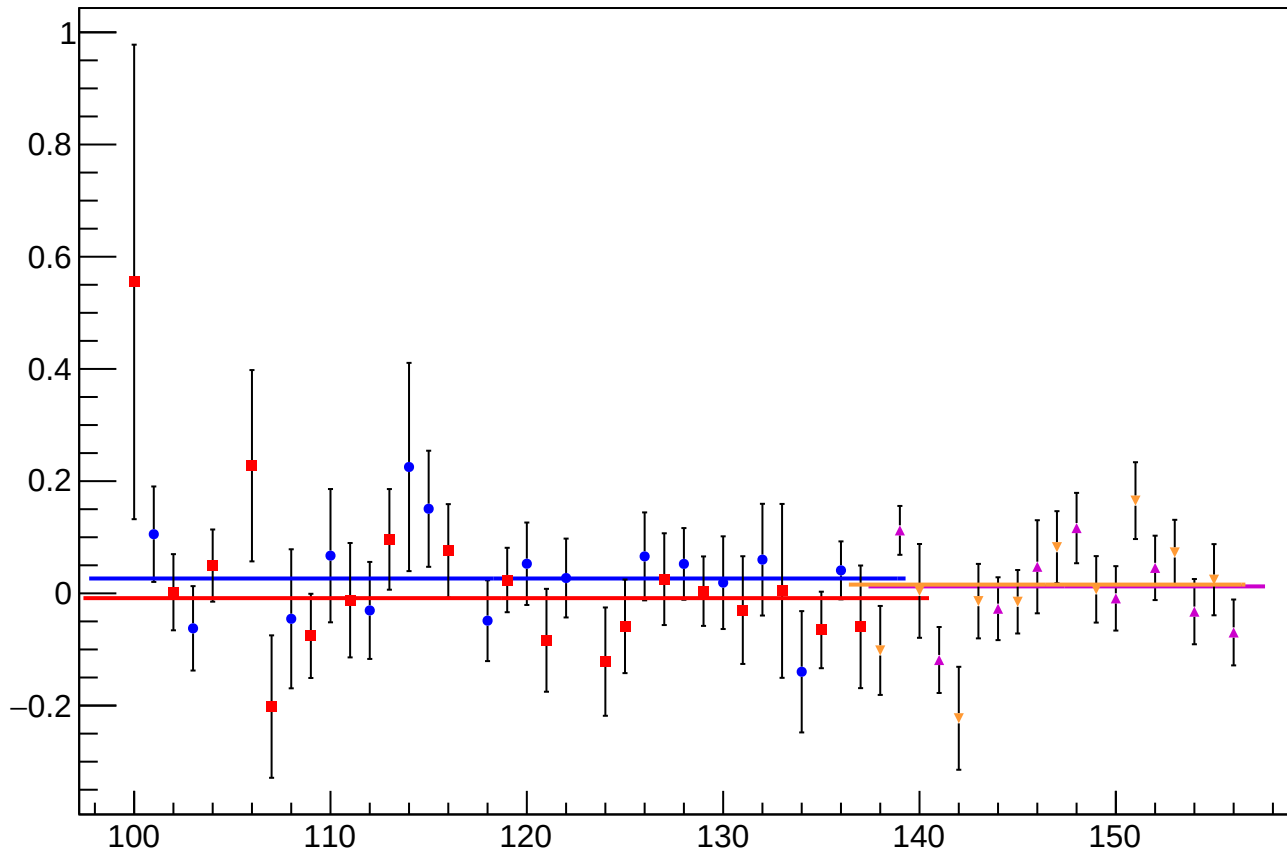
Right: 51.389 $\pm$ 0.010 χ^2 /NDF: 1105059.9/34

In: 52.107 $\pm$ 0.010 χ^2 /NDF: 753950.8/24

Out: 53.622 $\pm$ 0.010 χ^2 /NDF: 963423.9/28

All: 52.846 $\pm$ 0.007 χ^2 /NDF: 1728866.4/53

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: 0.016 $\pm$ 0.021 χ^2 /NDF:16.3/9

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.012 $\pm$ 0.019 χ^2 /NDF:16.7/8

Left: 0.014 $\pm$ 0.014 χ^2 /NDF: 33.0/18

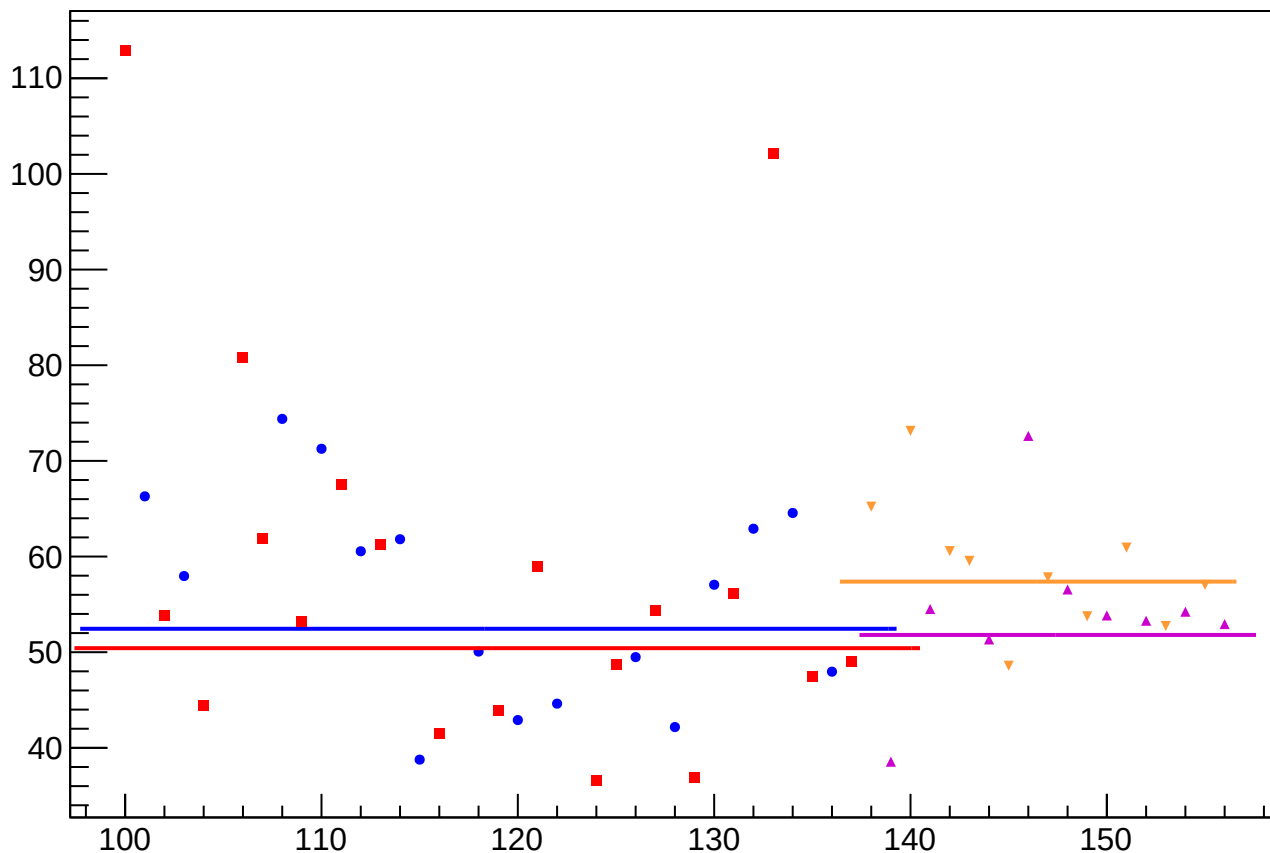
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.019 $\pm$ 0.014 χ^2 /NDF:26.9/24

Out: 0.003 $\pm$ 0.014 χ^2 /NDF:31.0/28

All: 0.011 $\pm$ 0.010 χ^2 /NDF: 58.5/53

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450+/-0.014 χ^2/NDF : 417967.5/15

Left Out: 57.379+/-0.015 χ^2/NDF : 169293.8/9

Right Out: 50.422+/-0.014 χ^2/NDF : 676753.5/18

Left In: 51.805+/-0.014 χ^2/NDF : 334919.7/8

Left: 54.321+/-0.010 χ^2/NDF : 580759.5/18

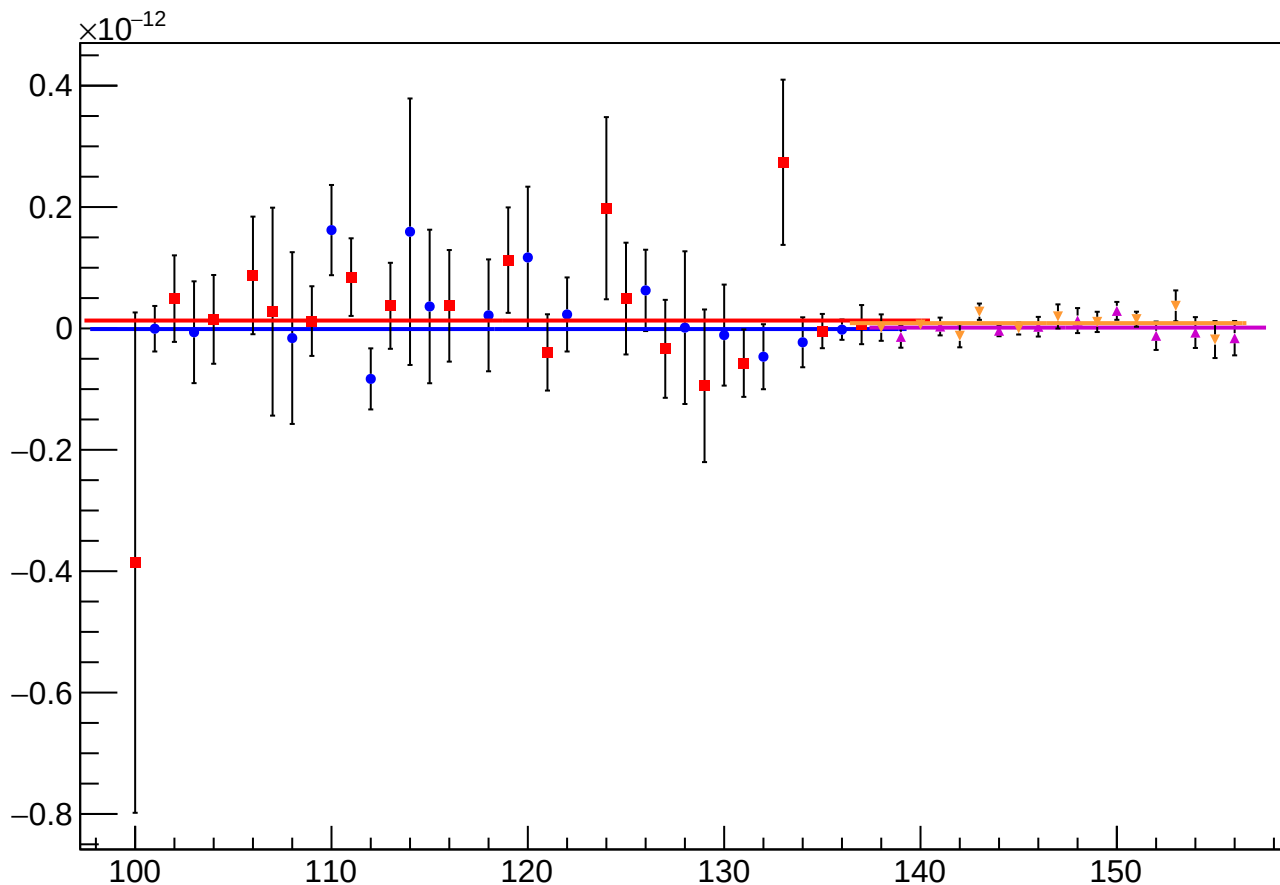
Right: 51.389+/-0.010 χ^2/NDF : 1105059.9/34

In: 52.107+/-0.010 χ^2/NDF : 753950.8/24

Out: 53.622+/-0.010 χ^2/NDF : 963423.9/28

All: 52.846+/-0.007 χ^2/NDF : 1728866.4/53

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 : 6.8/9

Right Out: 0.000+/-0.000 χ^2/NDF : 13.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.7/8

Left: 0.000+/-0.000 χ^2/NDF : 13.6/18

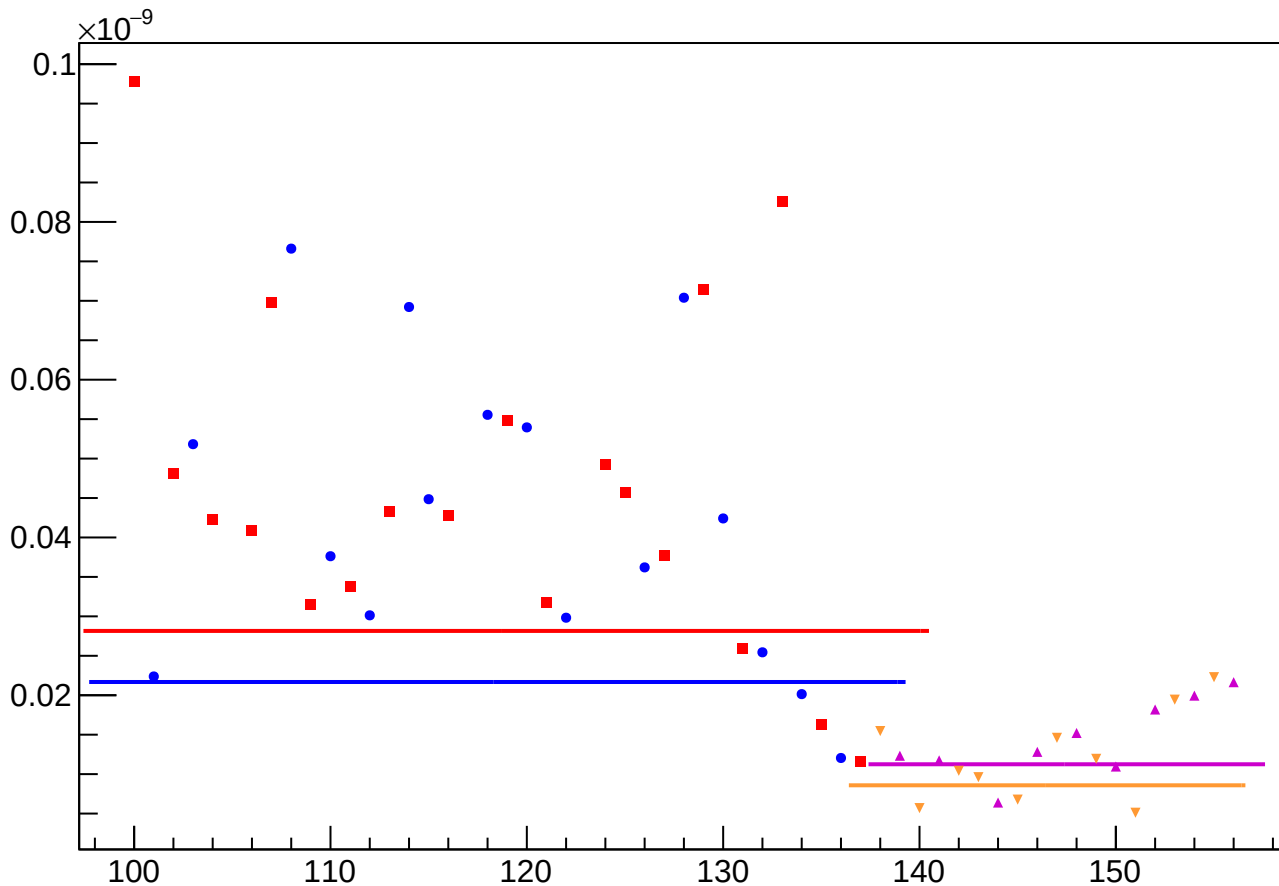
Right: 0.000+/-0.000 χ^2/NDF : 25.5/34

In: 0.000+/-0.000 χ^2/NDF : 17.0/24

Out: 0.000+/-0.000 χ^2/NDF : 20.5/28

All: 0.000+/-0.000 χ^2/NDF : 39.1/53

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 :1735695.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2381736.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1354801.9/8

Left: 0.000+/-0.000 χ^2/NDF : 3386037.0/18

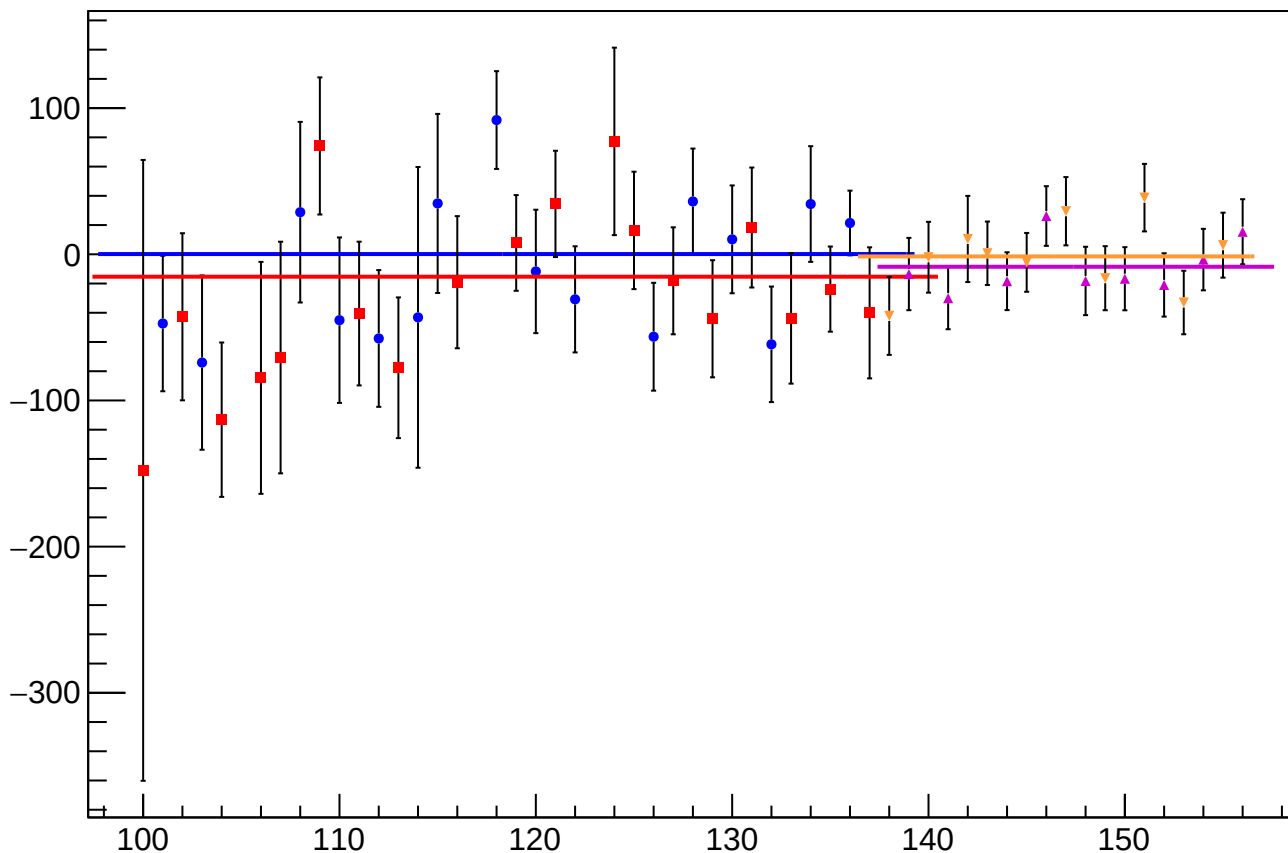
Right: 0.000+/-0.000 χ^2/NDF : 5141383.5/34

In: 0.000+/-0.000 χ^2/NDF :5143115.8/24

Out: 0.000+/-0.000 χ^2/NDF :7447045.3/28

All: 0.000+/-0.000 χ^2/NDF : 12940843.6/53

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: -1.452 ± 7.297 χ^2/NDF : 10.0/9

Right Out: -15.333 ± 10.267 χ^2/NDF : 17.9/18

Left In: -8.531 ± 7.220 χ^2/NDF : 6.1/8

Left: -5.028 ± 5.132 χ^2/NDF : 16.5/18

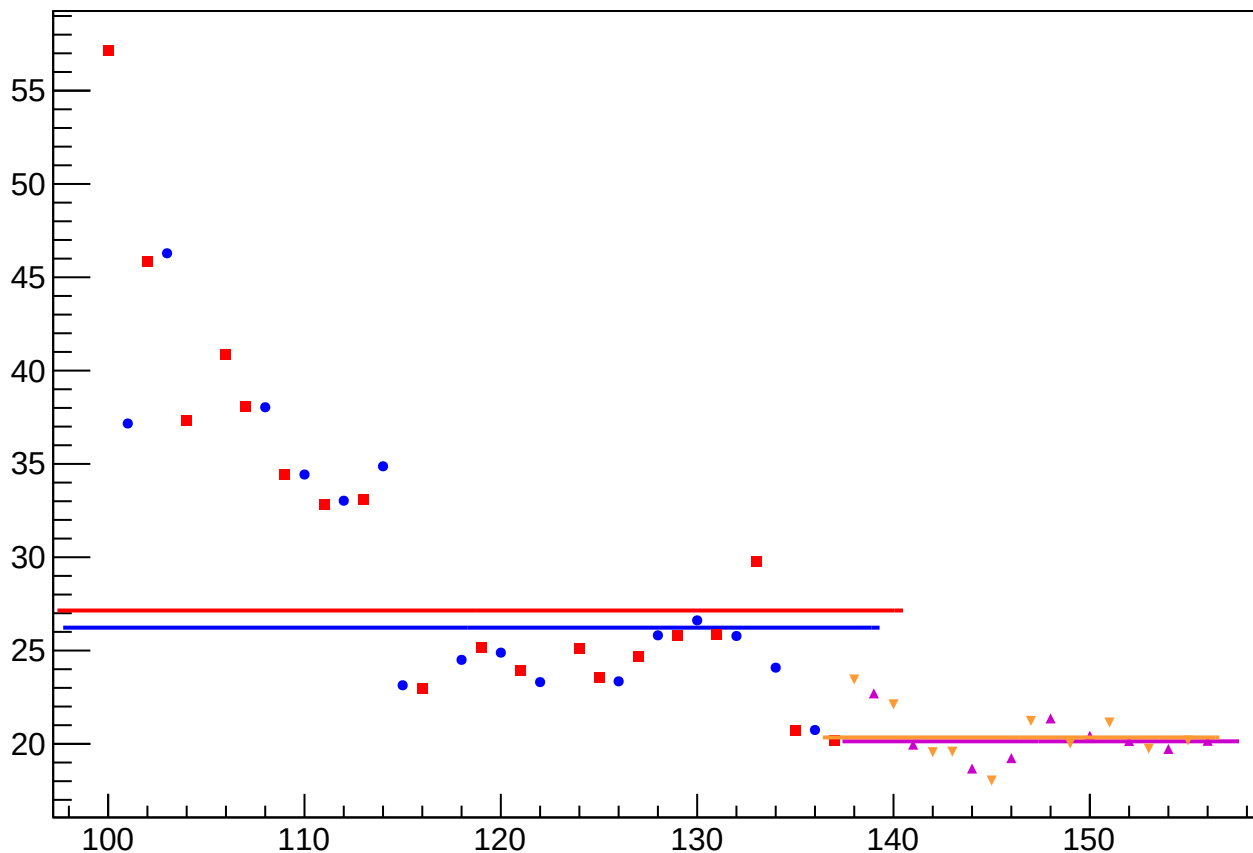
Right: -7.422 ± 7.181 χ^2/NDF : 40.4/34

In: -5.573 ± 5.863 χ^2/NDF : 27.9/24

Out: -6.110 ± 5.948 χ^2/NDF : 29.2/28

All: -5.838 ± 4.175 χ^2/NDF : 57.1/53

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227+/-0.007 χ^2/NDF : 676026.2/15

Left Out: 20.344+/-0.005 χ^2/NDF : 75330.1/9

Right Out: 27.145+/-0.007 χ^2/NDF : 755419.8/18

Left In: 20.136+/-0.005 χ^2/NDF : 43136.5/8

Left: 20.238+/-0.004 χ^2/NDF : 119286.9/18

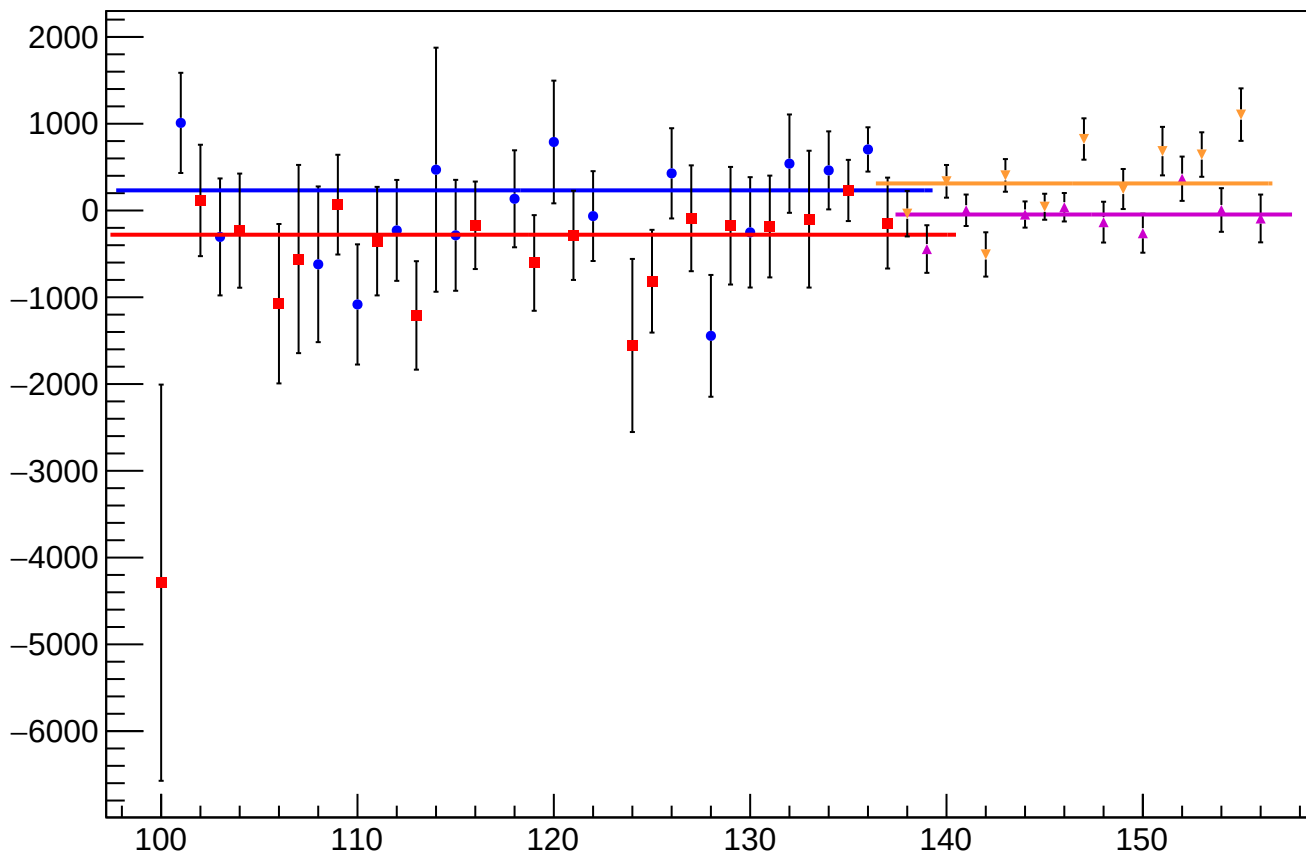
Right: 26.676+/-0.005 χ^2/NDF : 1439621.2/34

In: 22.210+/-0.004 χ^2/NDF : 1203900.3/24

Out: 22.626+/-0.004 χ^2/NDF : 1413973.5/28

All: 22.415+/-0.003 χ^2/NDF : 2622839.5/53

asym_sam_1357_2468_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 232.092 ± 134.871 χ^2/NDF : 19.6/15

Left Out: 311.908 ± 69.647 χ^2/NDF : 30.5/9

Right Out: -279.042 ± 139.965 χ^2/NDF : 12.1/18

Left In: -46.105 ± 69.499 χ^2/NDF : 6.2/8

Left: 132.522 ± 49.195 χ^2/NDF : 50.0/18

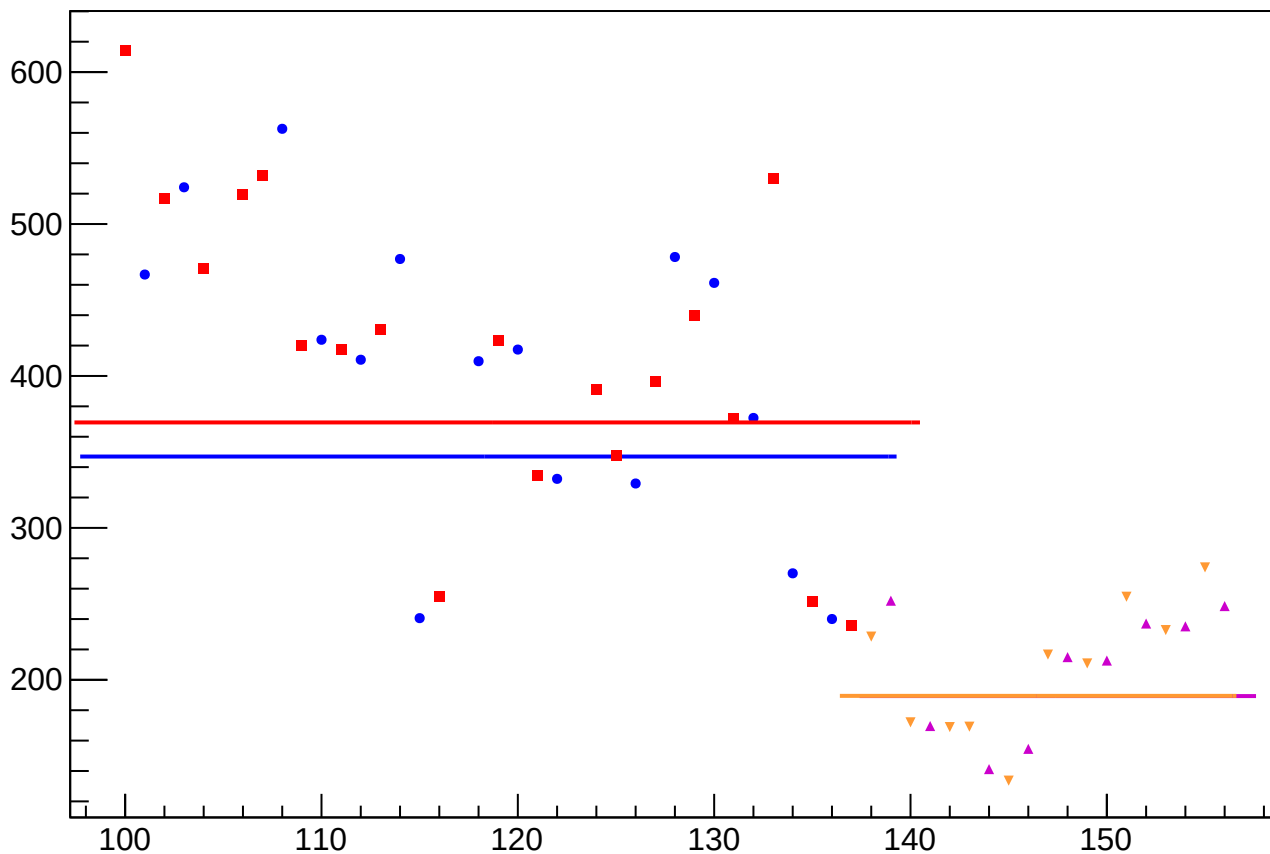
Right: -14.004 ± 97.119 χ^2/NDF : 38.6/34

In: 12.266 ± 61.779 χ^2/NDF : 29.2/24

Out: 194.625 ± 62.354 χ^2/NDF : 56.9/28

All: 102.602 ± 43.886 χ^2/NDF : 90.4/53

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: 189.444+/-0.049 χ^2/NDF : 740353.0/9

Right Out: 369.410+/-0.099 χ^2/NDF : 918852.6/18

Left In: 189.309+/-0.049 χ^2/NDF : 695338.5/8

Left: 189.376+/-0.035 χ^2/NDF : 1435695.3/18

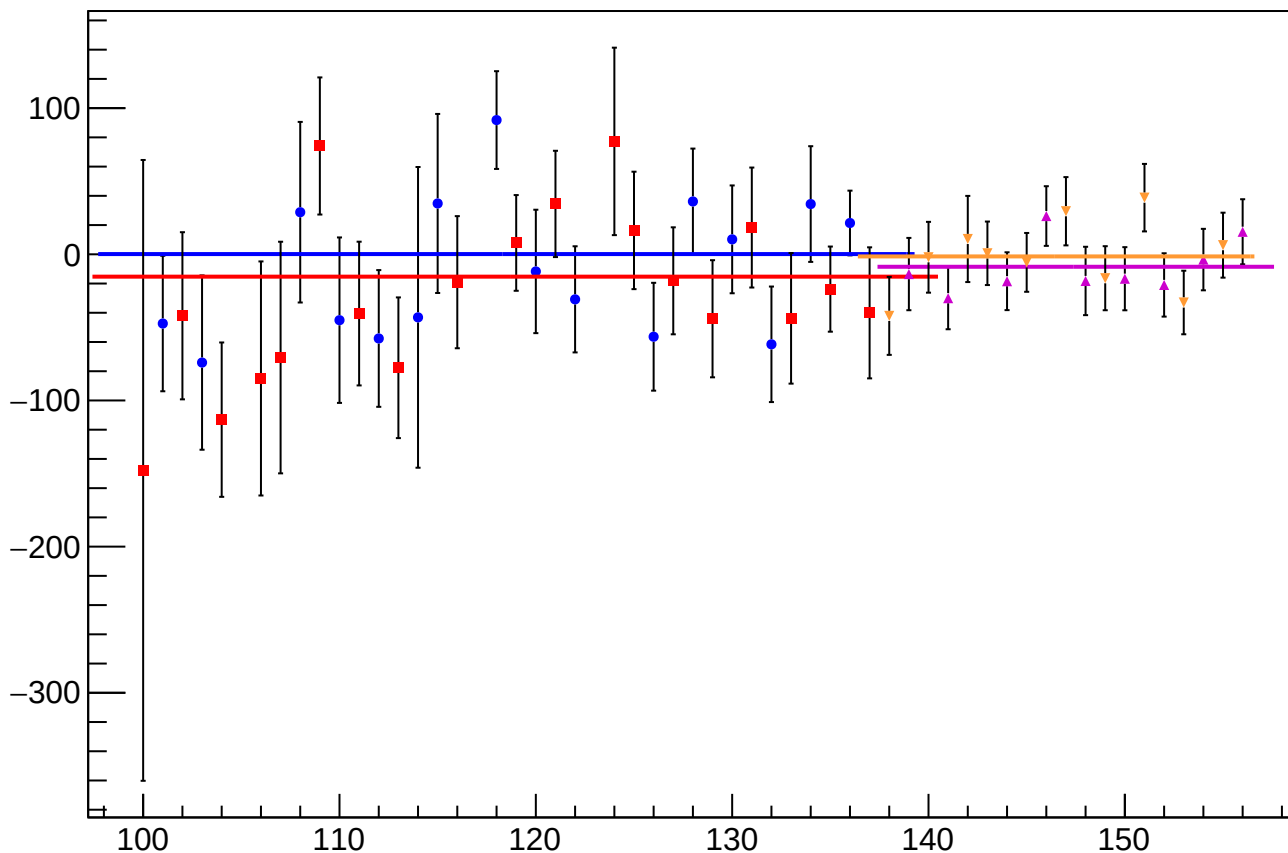
Right: 357.774+/-0.069 χ^2/NDF : 2003541.6/34

In: 222.389+/-0.044 χ^2/NDF : 3912919.8/24

Out: 225.161+/-0.044 χ^2/NDF : 4309495.8/28

All: 223.763+/-0.031 χ^2/NDF : 8224410.4/53

cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 $\chi^2/\text{NDF}: 21.3/15$

Left Out: -1.454 ± 7.297 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -15.292 ± 10.269 $\chi^2/\text{NDF}: 17.9/18$

Left In: -8.531 ± 7.220 $\chi^2/\text{NDF}: 6.1/8$

Left: -5.030 ± 5.132 $\chi^2/\text{NDF}: 16.5/18$

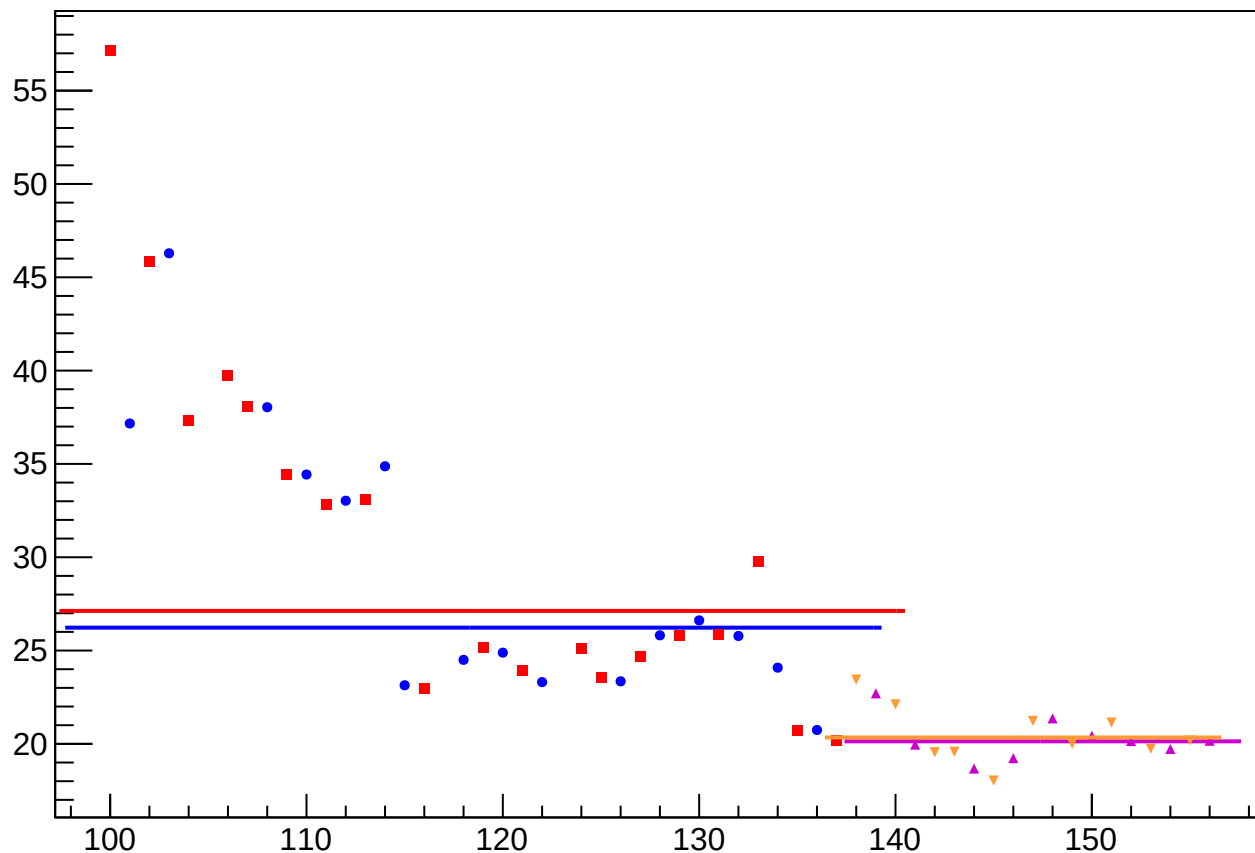
Right: -7.399 ± 7.182 $\chi^2/\text{NDF}: 40.4/34$

In: -5.573 ± 5.863 $\chi^2/\text{NDF}: 27.9/24$

Out: -6.097 ± 5.948 $\chi^2/\text{NDF}: 29.1/28$

All: -5.831 ± 4.176 $\chi^2/\text{NDF}: 57.0/53$

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: 20.344 $\pm$ 0.005 χ^2 /NDF: 75330.1/9

Right Out: 27.123 $\pm$ 0.007 χ^2 /NDF: 745675.5/18

Left In: 20.136 $\pm$ 0.005 χ^2 /NDF: 43136.5/8

Left: 20.238 $\pm$ 0.004 χ^2 /NDF: 119286.9/18

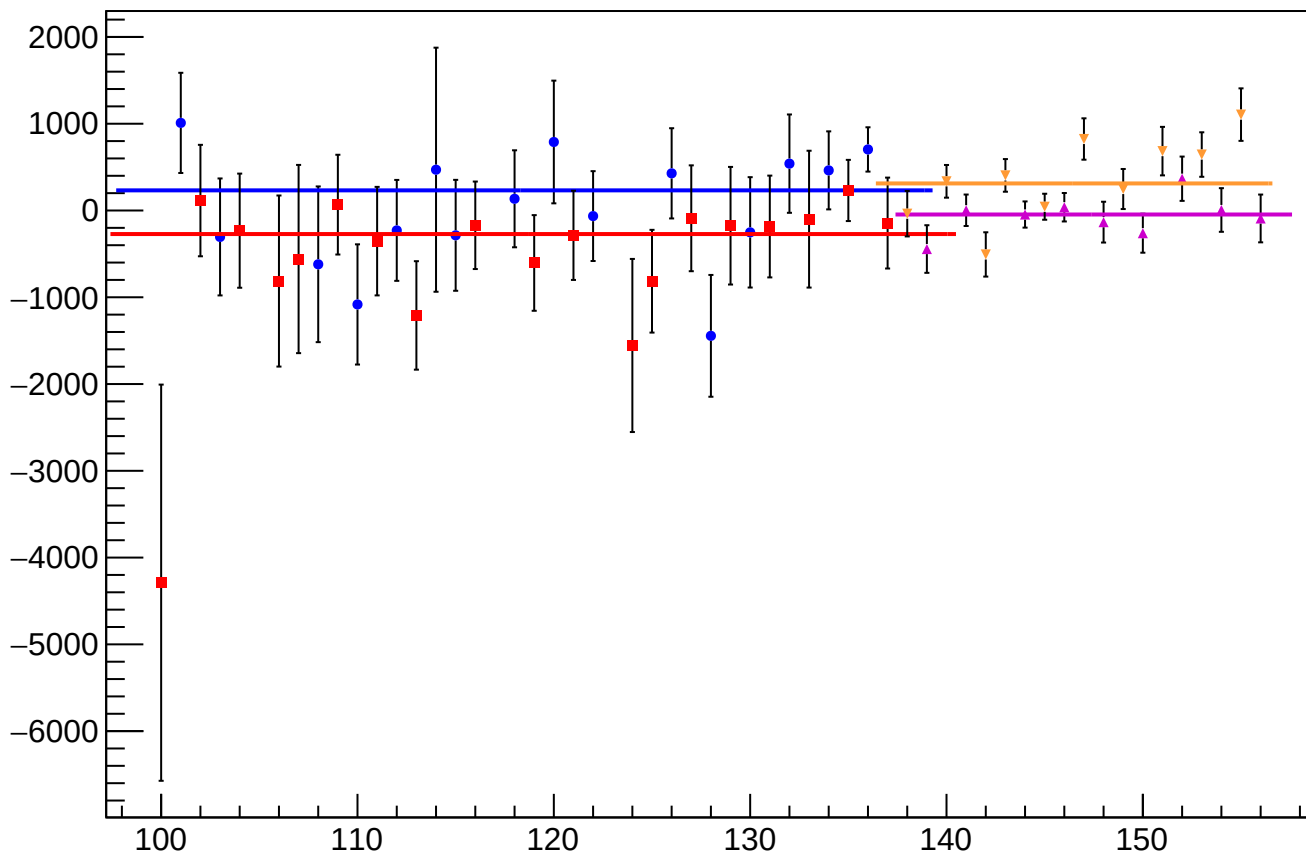
Right: 26.665 $\pm$ 0.005 χ^2 /NDF: 1429493.5/34

In: 22.210 $\pm$ 0.004 χ^2 /NDF: 1203903.7/24

Out: 22.618 $\pm$ 0.004 χ^2 /NDF: 1400349.4/28

All: 22.411 $\pm$ 0.003 χ^2 /NDF: 2609032.8/53

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: 311.906 ± 69.647 $\chi^2/\text{NDF}: 30.5/9$

Right Out: -271.412 ± 140.183 $\chi^2/\text{NDF}: 11.6/18$

Left In: -46.107 ± 69.499 $\chi^2/\text{NDF}: 6.2/8$

Left: 132.520 ± 49.195 $\chi^2/\text{NDF}: 50.0/18$

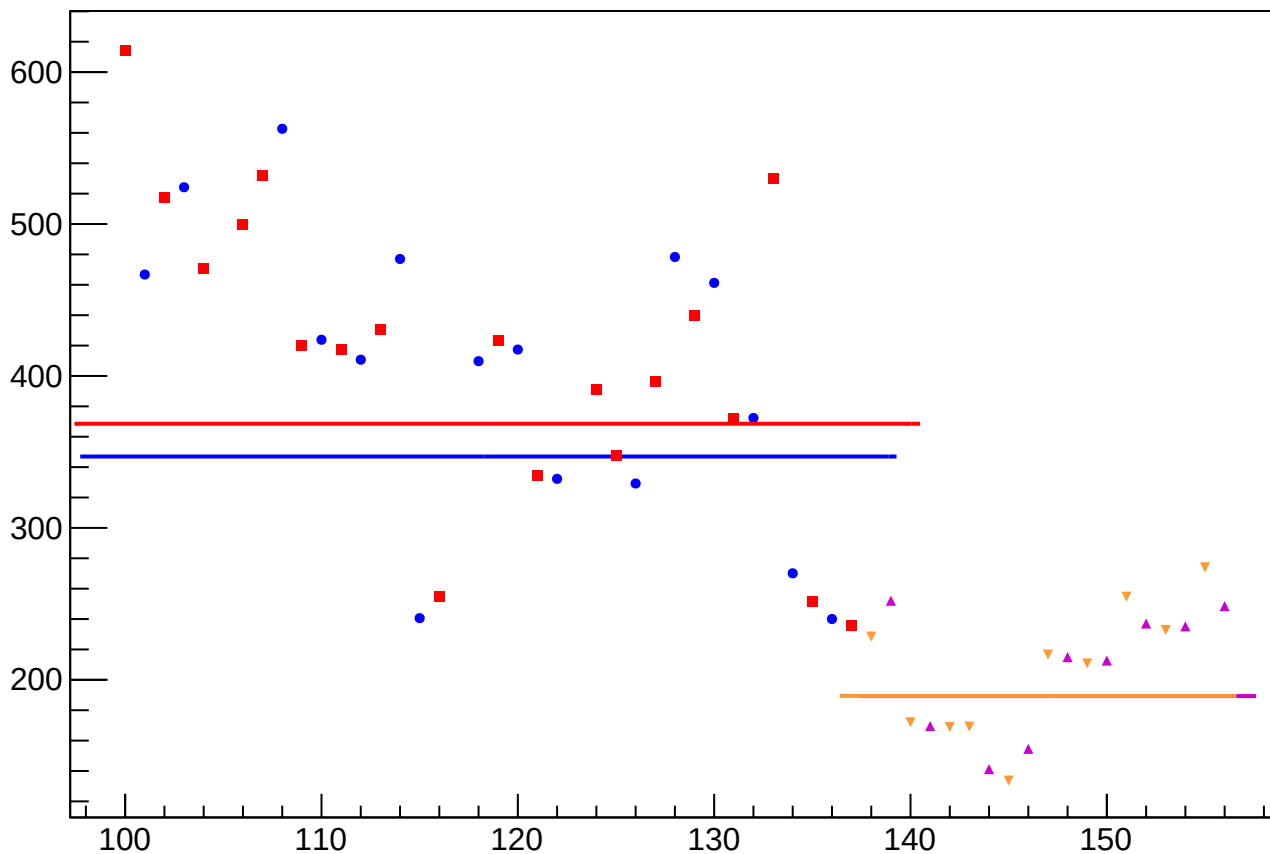
Right: -9.945 ± 97.192 $\chi^2/\text{NDF}: 38.0/34$

In: 12.264 ± 61.779 $\chi^2/\text{NDF}: 29.2/24$

Out: 196.426 ± 62.373 $\chi^2/\text{NDF}: 56.1/28$

All: 103.464 ± 43.893 $\chi^2/\text{NDF}: 89.6/53$

asym_sam_1357_2468_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 346.969 $\pm$ 0.095 χ^2 /NDF: 1058057.4/15

Left Out: 189.444 $\pm$ 0.049 χ^2 /NDF: 740356.2/9

Right Out: 368.543 $\pm$ 0.099 χ^2 /NDF: 900219.6/18

Left In: 189.309 $\pm$ 0.049 χ^2 /NDF: 695336.5/8

Left: 189.376 $\pm$ 0.035 χ^2 /NDF: 1435696.5/18

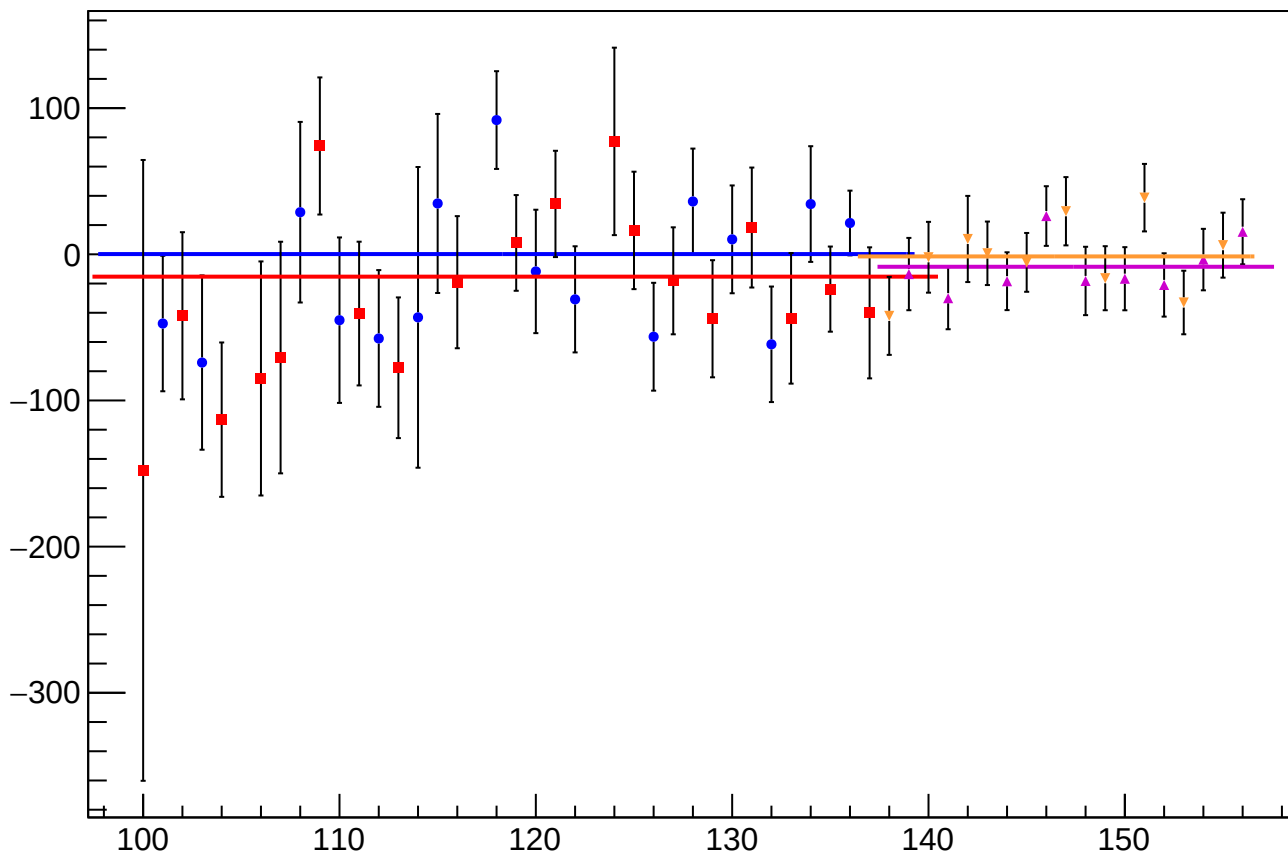
Right: 357.340 $\pm$ 0.069 χ^2 /NDF: 1982876.2/34

In: 222.389 $\pm$ 0.044 χ^2 /NDF: 3912941.0/24

Out: 224.901 $\pm$ 0.044 χ^2 /NDF: 4258866.5/28

All: 223.633 $\pm$ 0.031 χ^2 /NDF: 8173444.2/53

eigen_cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 $\chi^2/\text{NDF}: 21.3/15$

Left Out: -1.454 ± 7.297 $\chi^2/\text{NDF}: 10.0/9$

Right Out: -15.292 ± 10.269 $\chi^2/\text{NDF}: 17.9/18$

Left In: -8.531 ± 7.220 $\chi^2/\text{NDF}: 6.1/8$

Left: -5.030 ± 5.132 $\chi^2/\text{NDF}: 16.5/18$

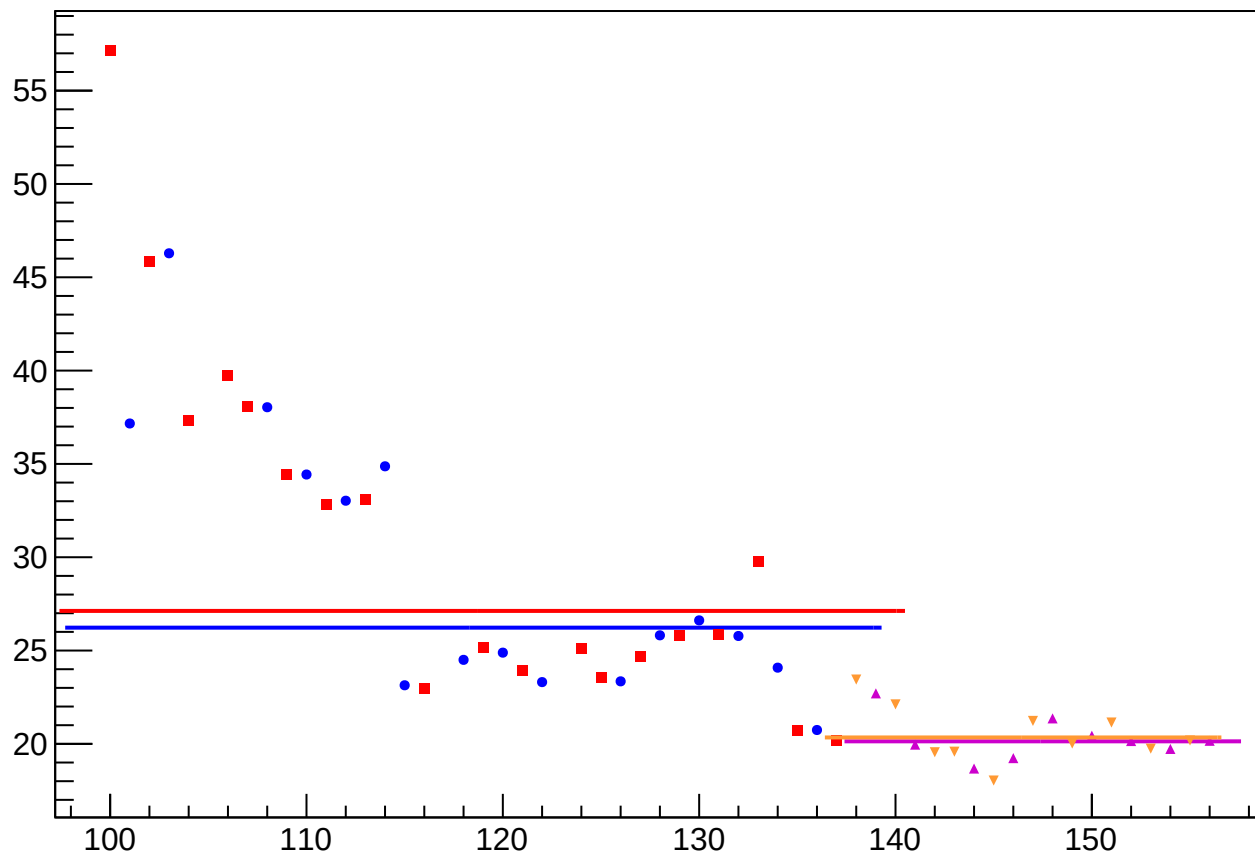
Right: -7.399 ± 7.182 $\chi^2/\text{NDF}: 40.4/34$

In: -5.573 ± 5.863 $\chi^2/\text{NDF}: 27.9/24$

Out: -6.097 ± 5.948 $\chi^2/\text{NDF}: 29.1/28$

All: -5.831 ± 4.176 $\chi^2/\text{NDF}: 57.0/53$

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: 20.344+/-0.005 χ^2/NDF : 75330.1/9

Right Out: 27.123+/-0.007 χ^2/NDF : 745675.5/18

Left In: 20.136+/-0.005 χ^2/NDF : 43136.5/8

Left: 20.238+/-0.004 χ^2/NDF : 119286.9/18

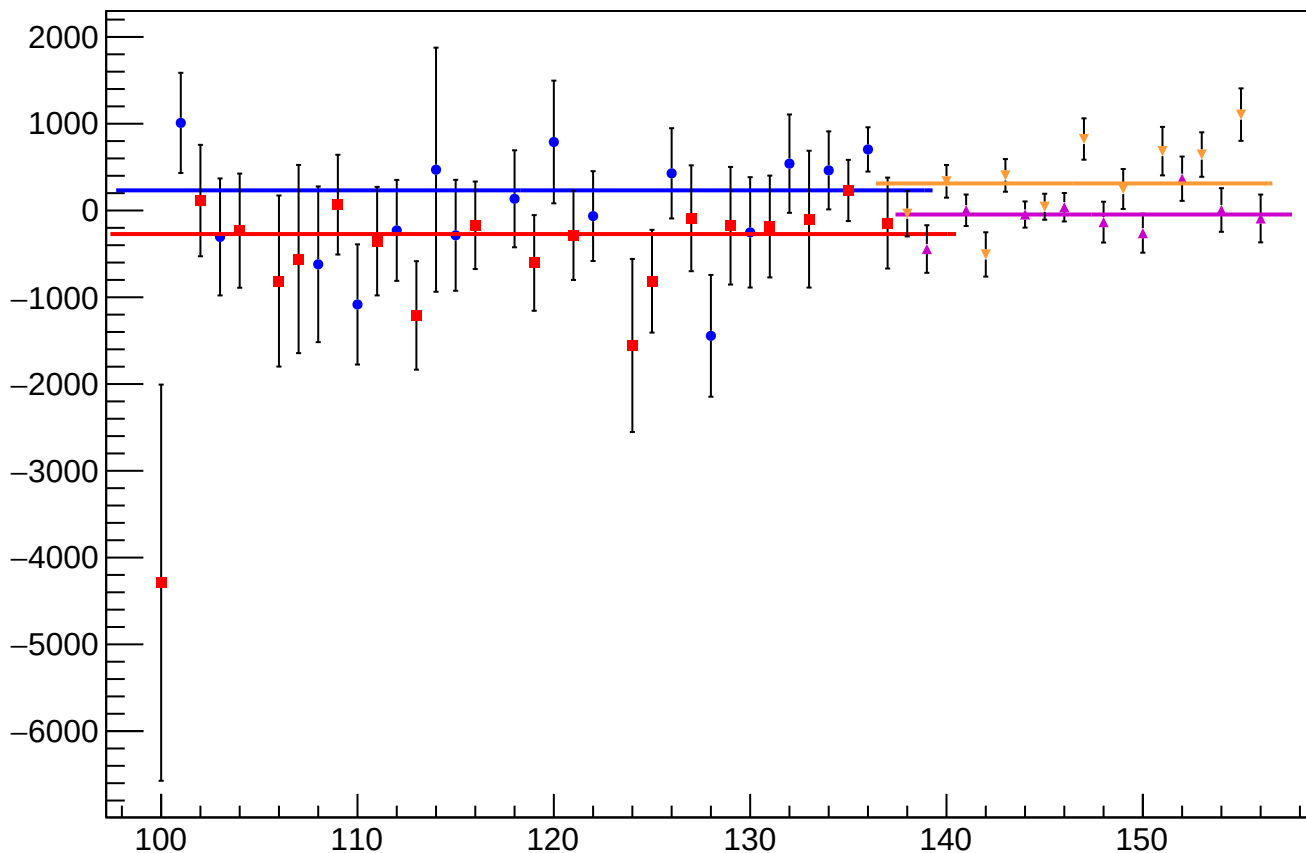
Right: 26.665+/-0.005 χ^2/NDF : 1429493.5/34

In: 22.210+/-0.004 χ^2/NDF : 1203903.7/24

Out: 22.618+/-0.004 χ^2/NDF : 1400349.4/28

All: 22.411+/-0.003 χ^2/NDF : 2609032.8/53

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: 311.906 $\pm$ 69.647 χ^2 /NDF:30.5/9

Right Out: -271.412 $\pm$ 140.183 χ^2 /NDF: 11.6/18

Left In: -46.107 $\pm$ 69.499 χ^2 /NDF:6.2/8

Left: 132.520 $\pm$ 49.195 χ^2 /NDF: 50.0/18

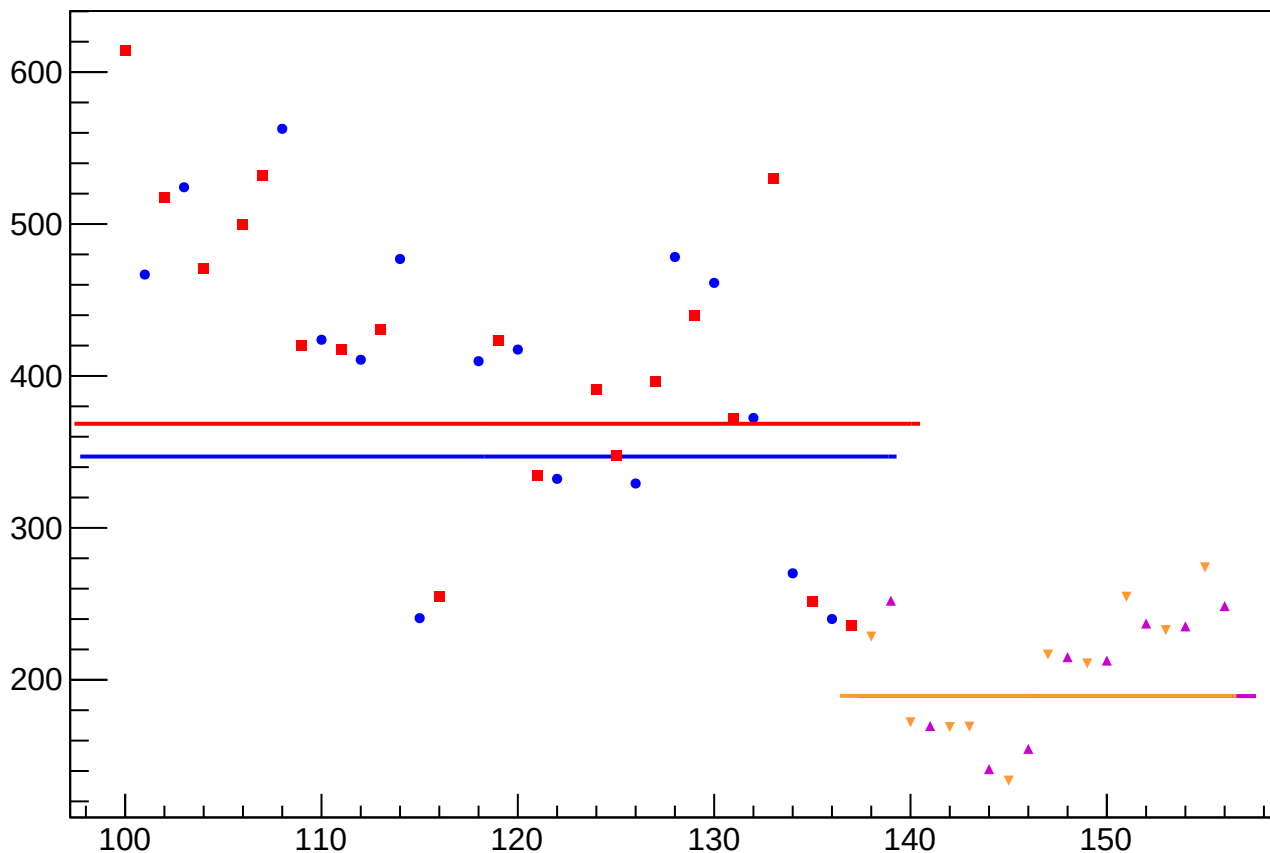
Right: -9.945 $\pm$ 97.192 χ^2 /NDF: 38.0/34

In: 12.264 $\pm$ 61.779 χ^2 /NDF:29.2/24

Out: 196.426 $\pm$ 62.373 χ^2 /NDF:56.1/28

All: 103.464 $\pm$ 43.893 χ^2 /NDF: 89.6/53

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: 189.444 $\pm$ 0.049 χ^2 /NDF: 740356.2/9

Right Out: 368.543 $\pm$ 0.099 χ^2 /NDF: 900219.6/18

Left In: 189.309 $\pm$ 0.049 χ^2 /NDF: 695336.5/8

Left: 189.376 $\pm$ 0.035 χ^2 /NDF: 1435696.5/18

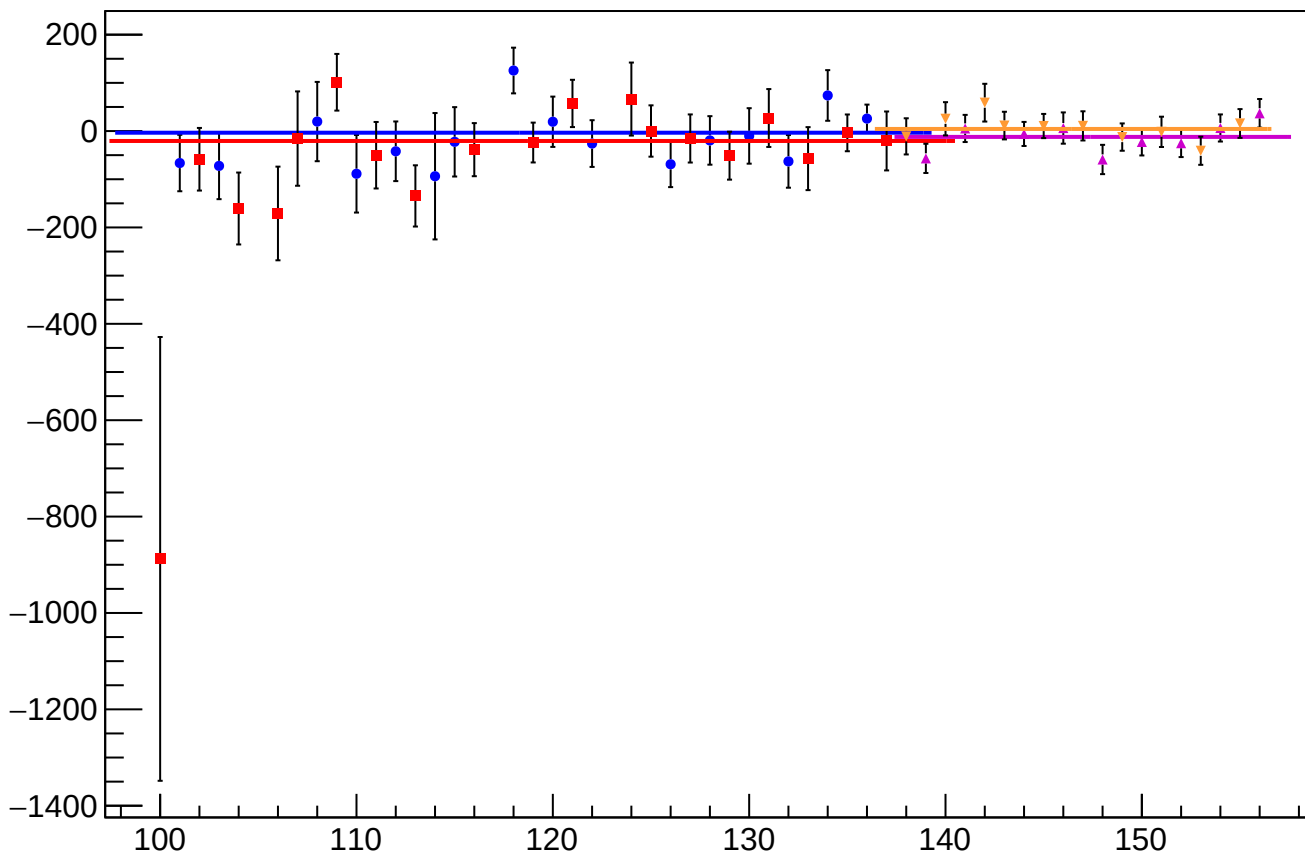
Right: 357.340 $\pm$ 0.069 χ^2 /NDF: 1982876.2/34

In: 222.389 $\pm$ 0.044 χ^2 /NDF: 3912941.0/24

Out: 224.901 $\pm$ 0.044 χ^2 /NDF: 4258866.5/28

All: 223.633 $\pm$ 0.031 χ^2 /NDF: 8173444.2/53

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: 4.372 ± 9.690 $\chi^2/\text{NDF}: 5.6/9$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -12.126 ± 9.594 $\chi^2/\text{NDF}: 8.8/8$

Left: -3.959 ± 6.818 $\chi^2/\text{NDF}: 15.9/18$

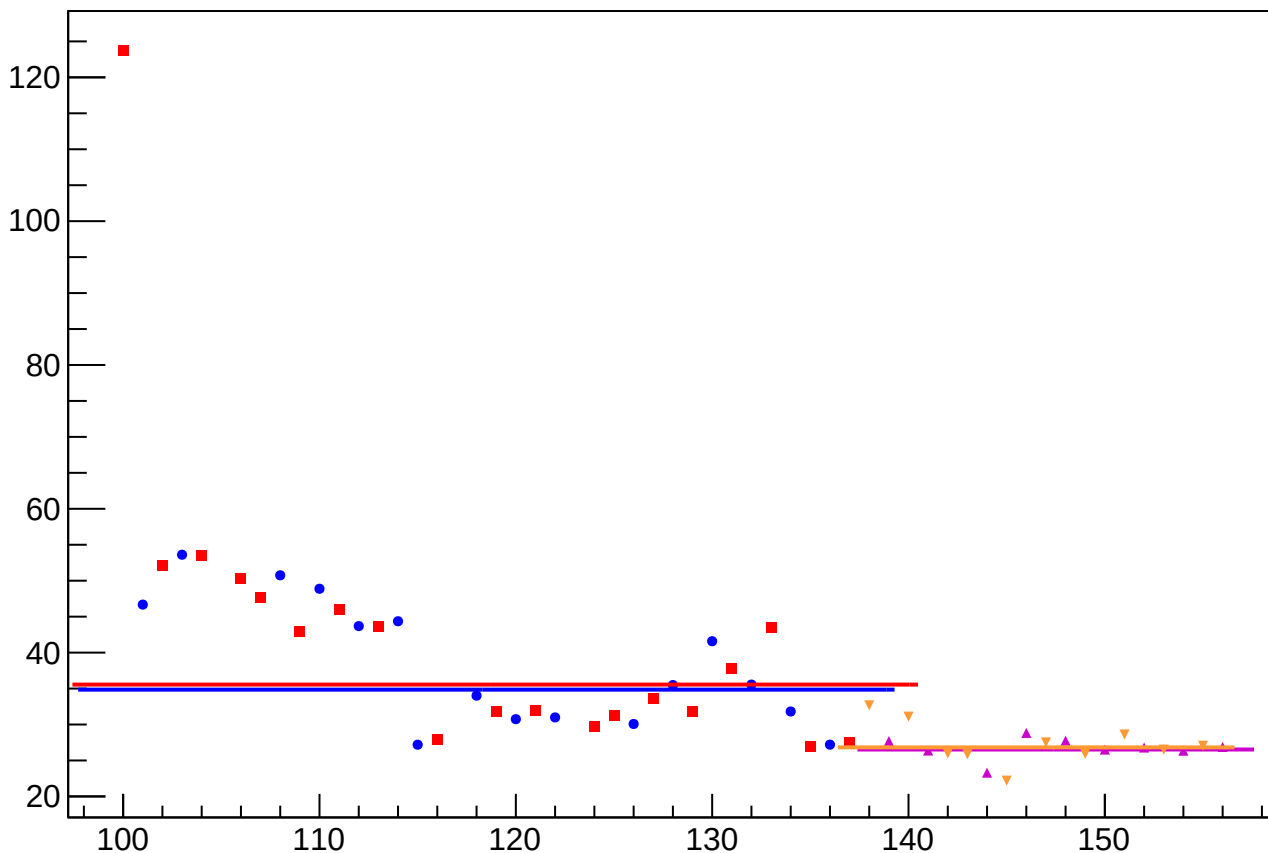
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -9.175 ± 7.799 $\chi^2/\text{NDF}: 27.6/24$

Out: -4.130 ± 7.867 $\chi^2/\text{NDF}: 31.0/28$

All: -6.674 ± 5.539 $\chi^2/\text{NDF}: 58.7/53$

dit_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 34.850+/-0.009 χ^2/NDF : 658141.6/15

Left Out: 26.820+/-0.007 χ^2/NDF : 160260.8/9

Right Out: 35.553+/-0.010 χ^2/NDF : 779880.3/18

Left In: 26.525+/-0.007 χ^2/NDF : 50198.5/8

Left: 26.671+/-0.005 χ^2/NDF : 211395.9/18

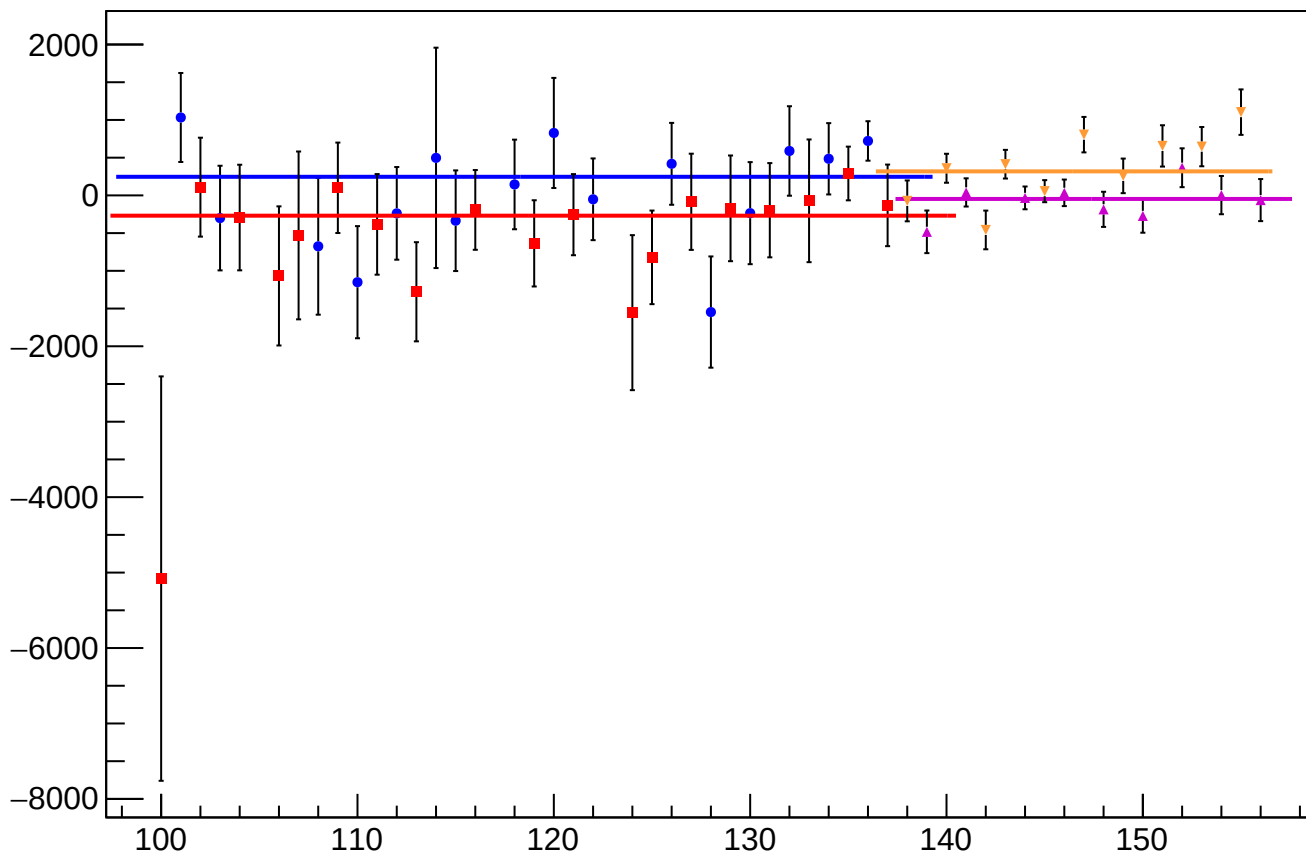
Right: 35.200+/-0.007 χ^2/NDF : 1440755.9/34

In: 29.348+/-0.006 χ^2/NDF : 1219168.6/24

Out: 29.796+/-0.006 χ^2/NDF : 1493897.7/28

All: 29.570+/-0.004 χ^2/NDF : 2716340.8/53

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: 318.508 $\pm$ 69.566 χ^2/NDF :29.0/9

Right Out: -268.913 $\pm$ 145.295 χ^2/NDF : 12.6/18

Left In: -47.093 $\pm$ 70.814 χ^2/NDF :6.8/8

Left: 138.957 $\pm$ 49.626 χ^2/NDF : 49.4/18

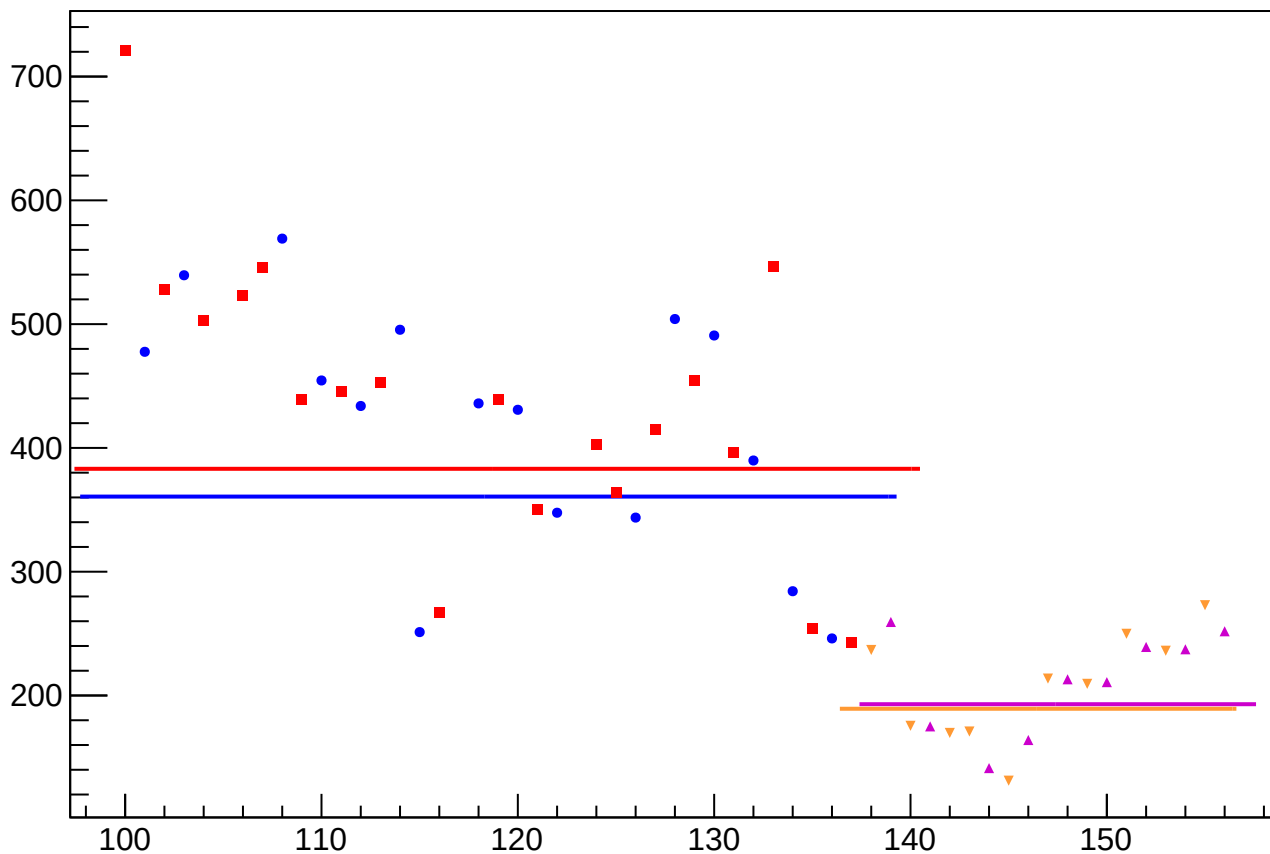
Right: -2.144 $\pm$ 100.917 χ^2/NDF : 38.9/34

In: 12.534 $\pm$ 63.215 χ^2/NDF :30.1/24

Out: 208.961 $\pm$ 62.745 χ^2/NDF :54.9/28

All: 111.481 $\pm$ 44.533 χ^2/NDF : 89.9/53

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: 189.292 $\pm$ 0.049 χ^2 /NDF: 771140.3/9

Right Out: 383.132 $\pm$ 0.103 χ^2 /NDF: 963125.0/18

Left In: 192.967 $\pm$ 0.050 χ^2 /NDF: 659584.7/8

Left: 191.097 $\pm$ 0.035 χ^2 /NDF: 1433465.6/18

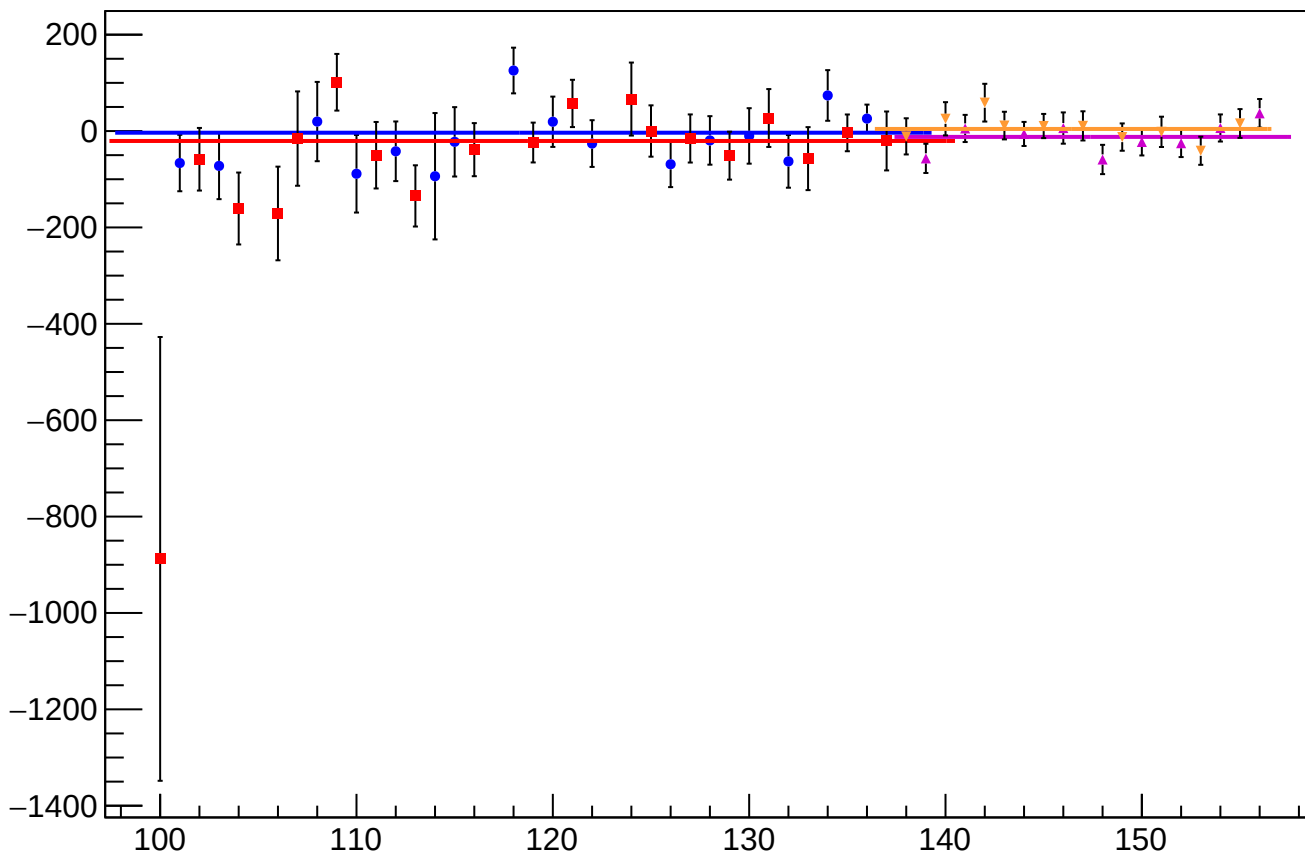
Right: 371.518 $\pm$ 0.071 χ^2 /NDF: 2080575.8/34

In: 227.030 $\pm$ 0.045 χ^2 /NDF: 4030995.0/24

Out: 225.441 $\pm$ 0.044 χ^2 /NDF: 4630097.4/28

All: 226.230 $\pm$ 0.031 χ^2 /NDF: 8661728.9/53

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: 4.372 ± 9.690 $\chi^2/\text{NDF}: 5.6/9$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -12.126 ± 9.594 $\chi^2/\text{NDF}: 8.8/8$

Left: -3.959 ± 6.818 $\chi^2/\text{NDF}: 15.9/18$

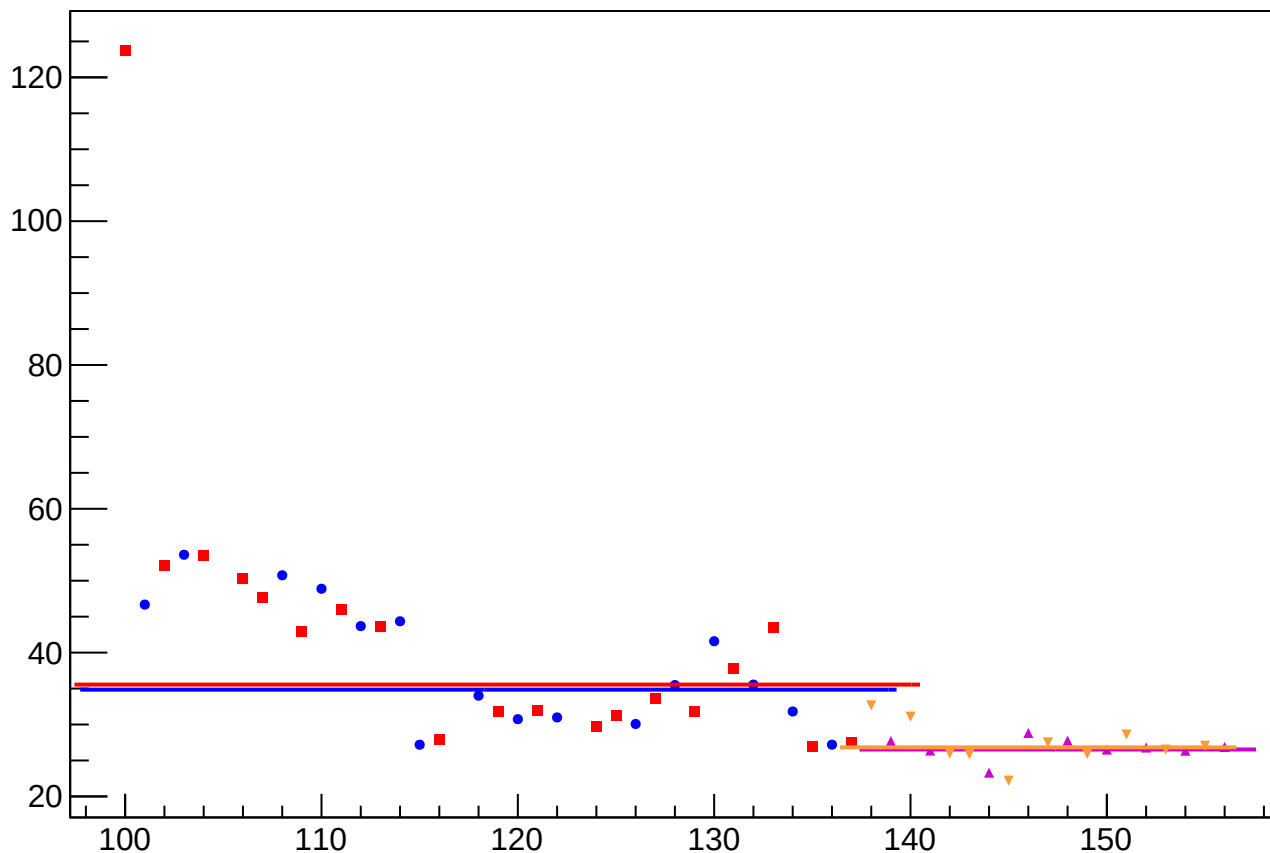
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -9.175 ± 7.799 $\chi^2/\text{NDF}: 27.6/24$

Out: -4.129 ± 7.867 $\chi^2/\text{NDF}: 31.0/28$

All: -6.674 ± 5.539 $\chi^2/\text{NDF}: 58.7/53$

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: 26.820+/-0.007 χ^2/NDF :160244.8/9

Right Out: 35.552 ± 0.010 χ^2/NDF : 779849.4/18

Left In: 26.525+/-0.007 χ^2/NDF :50195.0/8

Left: 26.671 ± 0.005 $\chi^2/\text{NDF}: 211376.3/18$

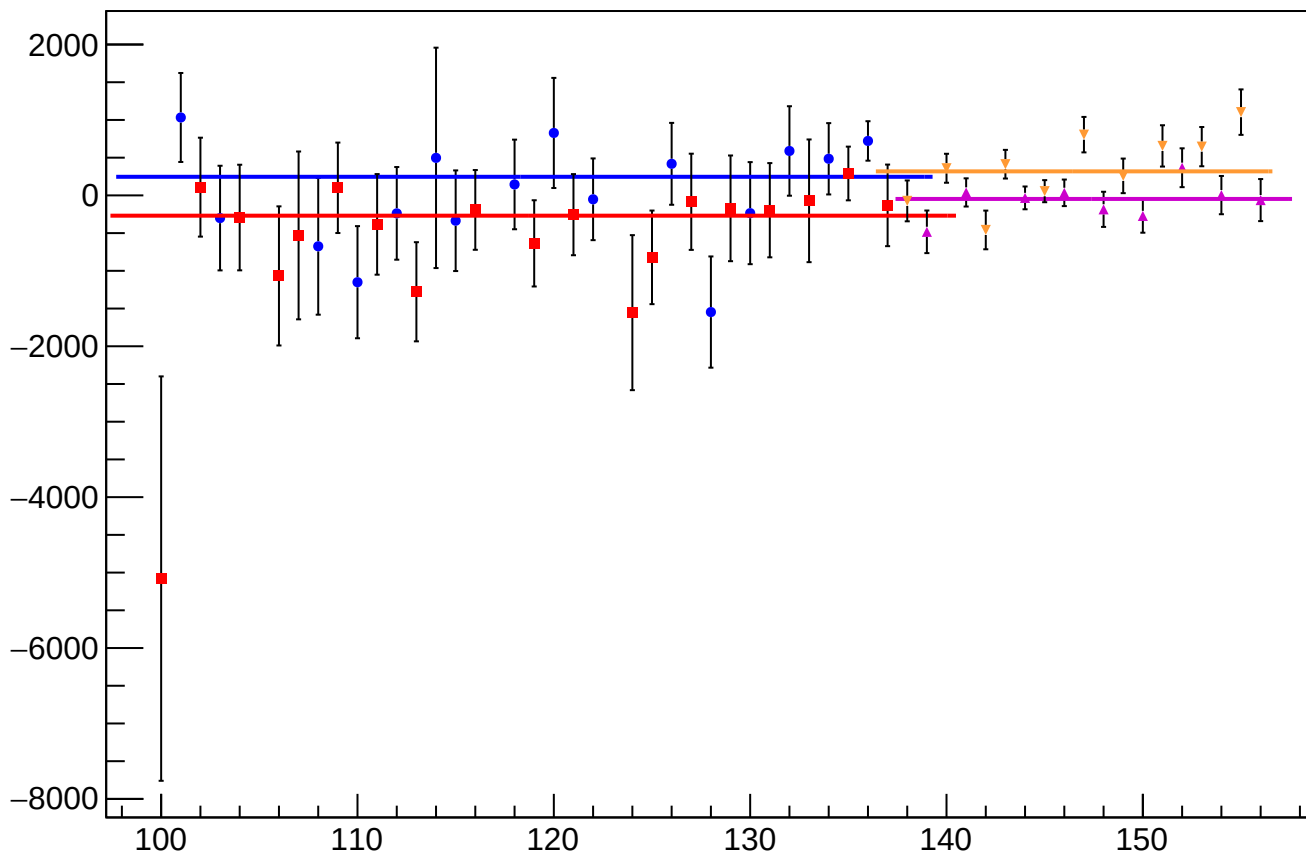
Right: 35.199+/-0.007 χ^2/NDF : 1440673.9/34

In: 29.348+/-0.006 χ^2/NDF :1219051.1/24

Out: 29.796+/-0.006 χ^2/NDF :1493796.7/28

All: 29.570+/-0.004 χ^2/NDF : 2716122.7/53

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: 318.507 $\pm$ 69.566 χ^2 /NDF:29.0/9

Right Out: -268.913 $\pm$ 145.295 χ^2 /NDF: 12.6/18

Left In: -47.093 $\pm$ 70.814 χ^2 /NDF:6.8/8

Left: 138.957 $\pm$ 49.626 χ^2 /NDF: 49.4/18

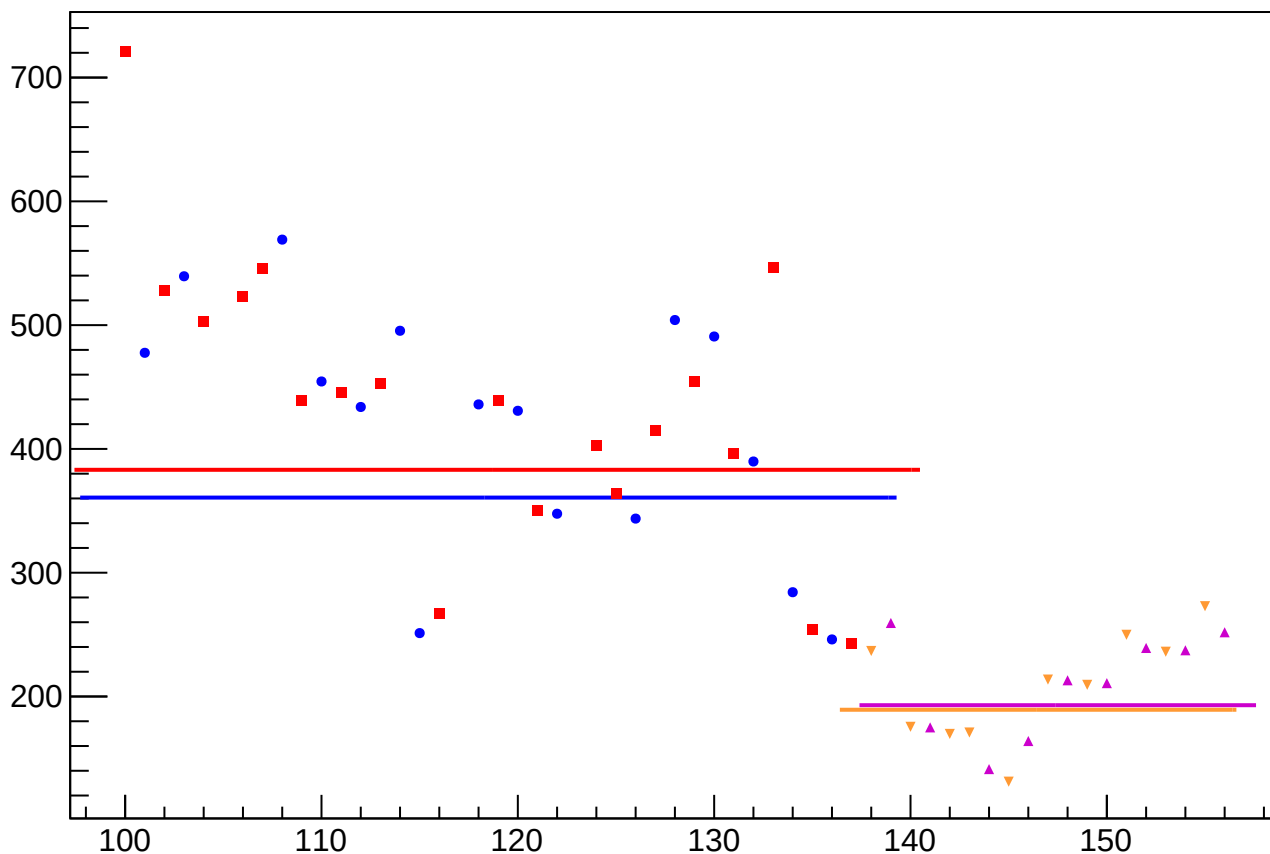
Right: -2.145 $\pm$ 100.917 χ^2 /NDF: 38.9/34

In: 12.534 $\pm$ 63.215 χ^2 /NDF:30.1/24

Out: 208.960 $\pm$ 62.745 χ^2 /NDF:54.9/28

All: 111.480 $\pm$ 44.533 χ^2 /NDF: 89.9/53

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 360.691 ± 0.099 $\chi^2/\text{NDF}: 1092752.5/15$

Left Out: 189.292 ± 0.049 $\chi^2/\text{NDF}: 771155.9/9$

Right Out: 383.131 ± 0.103 $\chi^2/\text{NDF}: 963120.8/18$

Left In: 192.967 ± 0.050 $\chi^2/\text{NDF}: 659589.8/8$

Left: 191.097 ± 0.035 $\chi^2/\text{NDF}: 1433486.8/18$

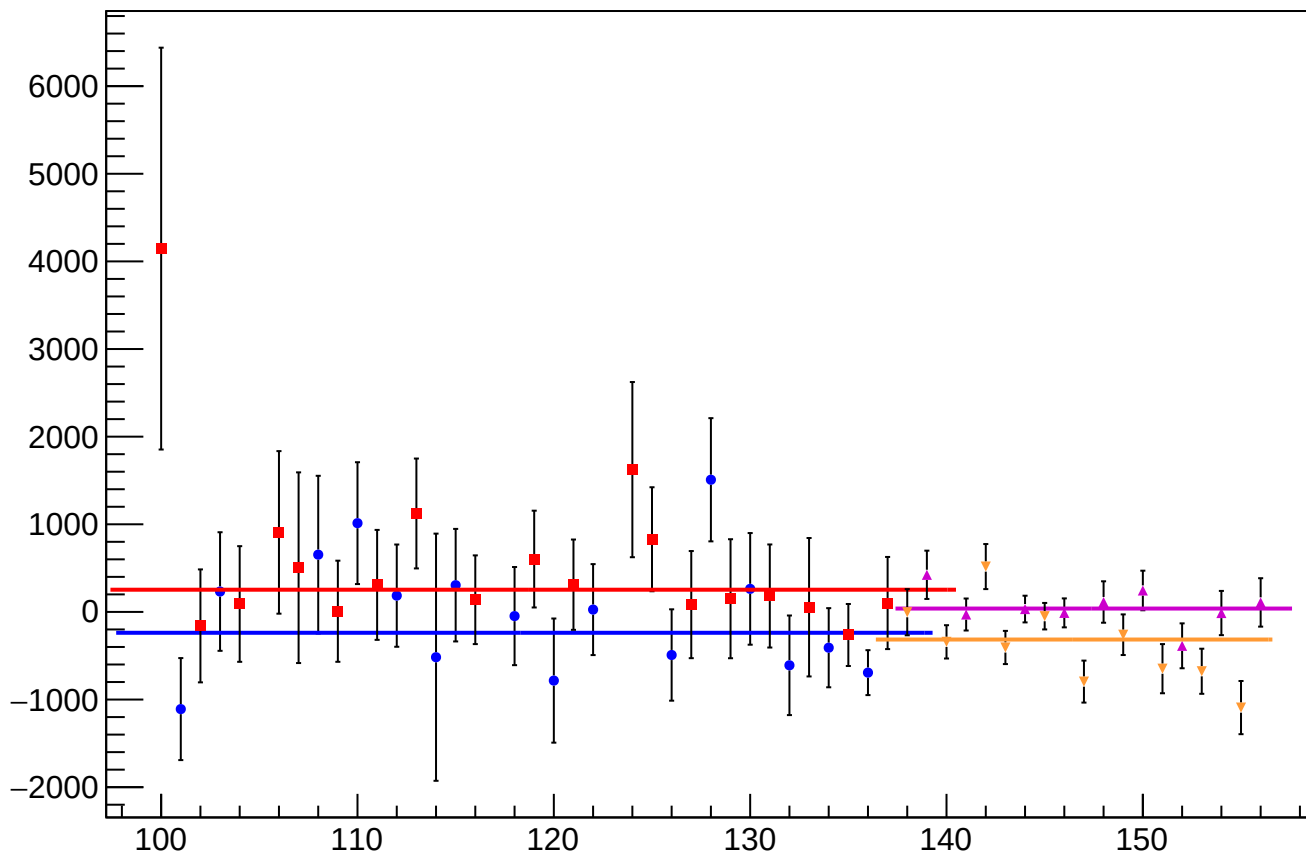
Right: 371.517 ± 0.071 $\chi^2/\text{NDF}: 2080563.7/34$

In: 227.030 ± 0.045 $\chi^2/\text{NDF}: 4030987.7/24$

Out: 225.441 ± 0.044 $\chi^2/\text{NDF}: 4630114.9/28$

All: 226.229 ± 0.031 $\chi^2/\text{NDF}: 8661739.3/53$

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: -315.022 ± 70.095 $\chi^2/\text{NDF}: 29.3/9$

Right Out: 253.445 ± 140.414 $\chi^2/\text{NDF}: 11.7/18$

Left In: 38.393 ± 69.938 $\chi^2/\text{NDF}: 6.0/8$

Left: -137.918 ± 49.509 $\chi^2/\text{NDF}: 48.0/18$

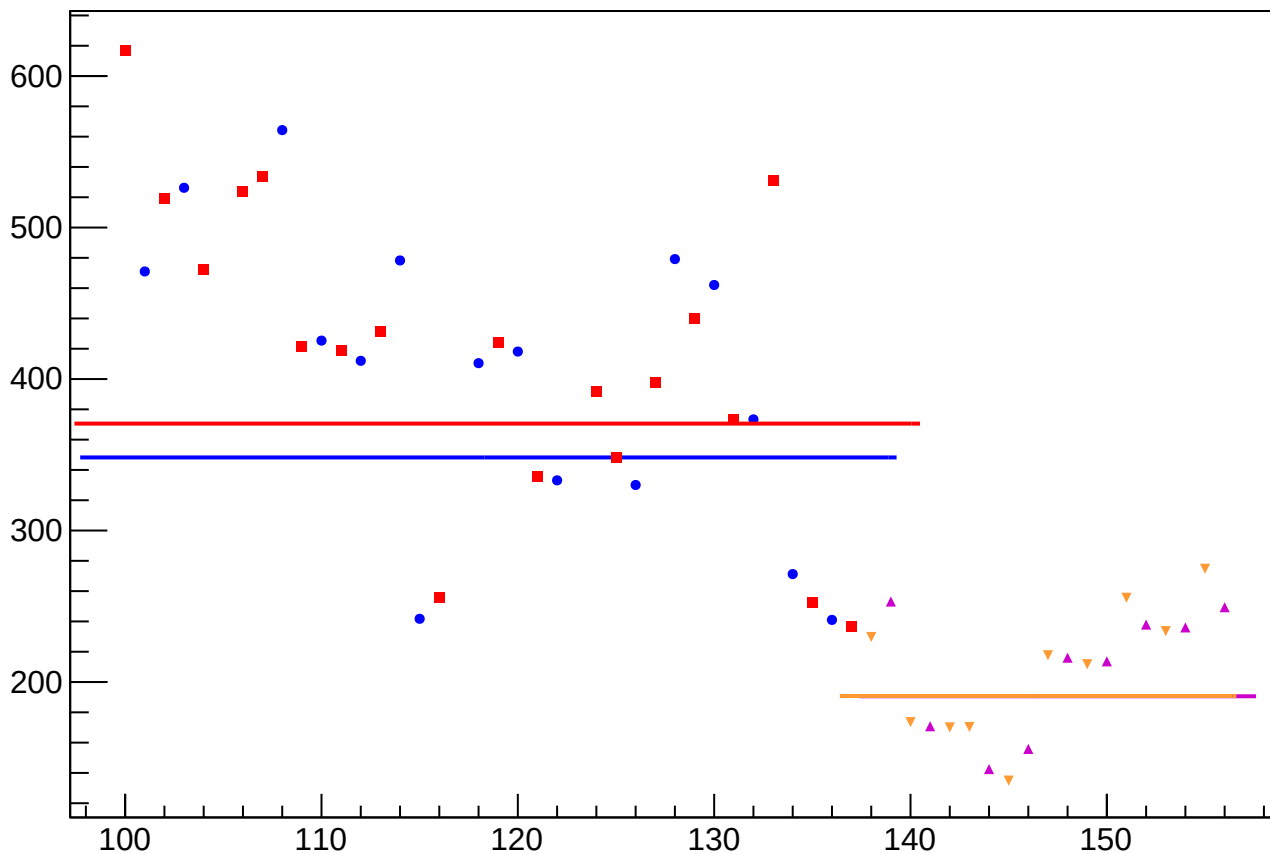
Right: -1.323 ± 97.448 $\chi^2/\text{NDF}: 38.0/34$

In: -19.862 ± 62.133 $\chi^2/\text{NDF}: 29.2/24$

Out: -201.619 ± 62.715 $\chi^2/\text{NDF}: 54.1/28$

All: -109.894 ± 44.139 $\chi^2/\text{NDF}: 87.5/53$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 348.253 $\pm$ 0.096 χ^2 /NDF: 1056820.3/15

Left Out: 190.764 $\pm$ 0.050 χ^2 /NDF: 726718.8/9

Right Out: 370.585 $\pm$ 0.099 χ^2 /NDF: 917913.5/18

Left In: 190.601 $\pm$ 0.049 χ^2 /NDF: 681866.6/8

Left: 190.682 $\pm$ 0.035 χ^2 /NDF: 1408590.8/18

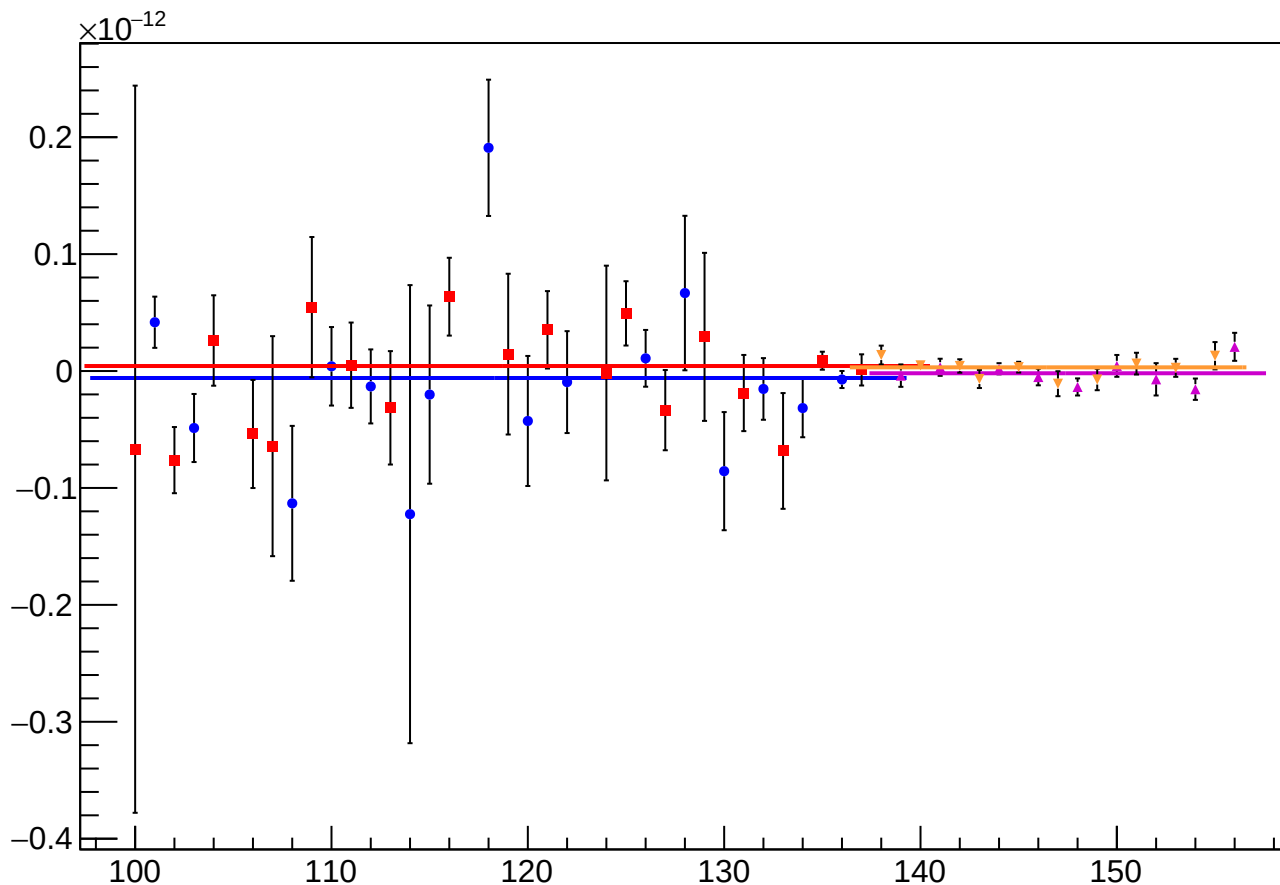
Right: 359.009 $\pm$ 0.069 χ^2 /NDF: 2000959.8/34

In: 223.823 $\pm$ 0.044 χ^2 /NDF: 3880306.2/24

Out: 226.636 $\pm$ 0.044 χ^2 /NDF: 4270429.3/28

All: 225.217 $\pm$ 0.031 χ^2 /NDF: 8152765.7/53

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 : 7.4/9

Right Out: 0.000+/-0.000 χ^2/NDF : 23.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 10.3/8

Left: 0.000+/-0.000 χ^2/NDF : 20.1/18

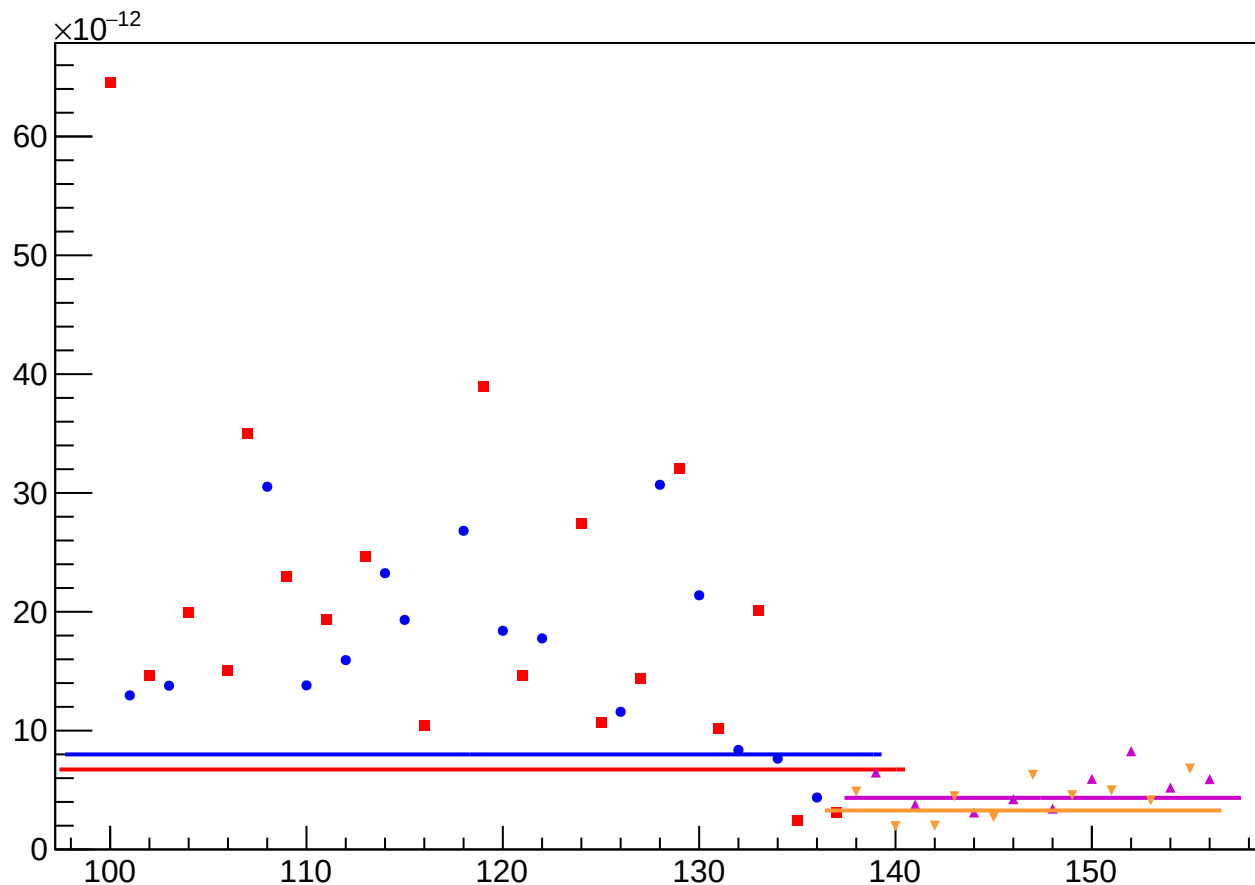
Right: -0.000+/-0.000 χ^2/NDF : 51.9/34

In: -0.000+/-0.000 χ^2/NDF : 38.1/24

Out: 0.000+/-0.000 χ^2/NDF : 30.4/28

All: 0.000+/-0.000 χ^2/NDF : 72.2/53

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 :933546.3/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3379574.5/18

Left In: 0.000+/-0.000 χ^2/NDF :547173.1/8

Left: 0.000+/-0.000 χ^2/NDF : 1683011.1/18

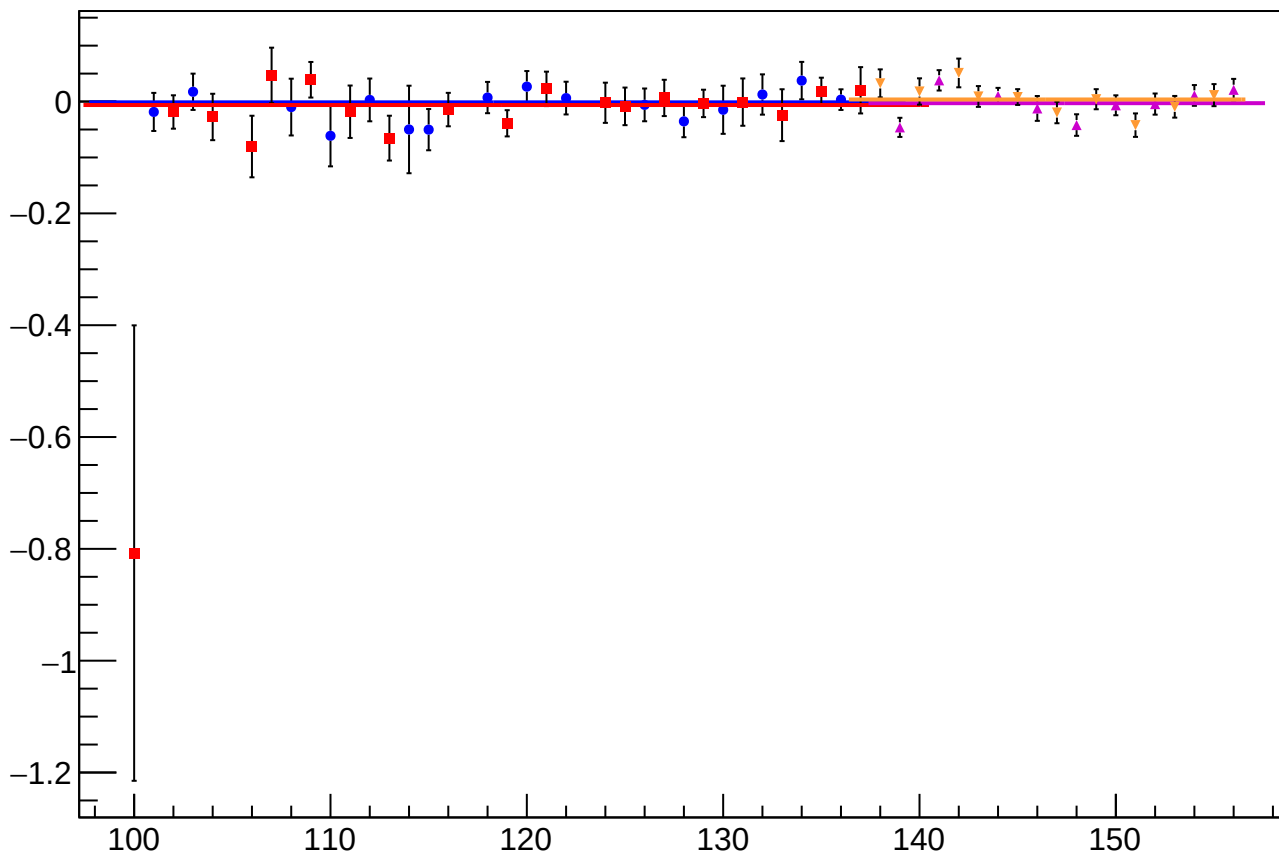
Right: 0.000+/-0.000 χ^2/NDF : 5380161.4/34

In: 0.000+/-0.000 χ^2/NDF :3180128.3/24

Out: 0.000+/-0.000 χ^2/NDF :4988281.1/28

All: 0.000+/-0.000 χ^2/NDF : 8507176.3/53

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: 0.004 ± 0.006 χ^2/NDF : 12.2/9

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.003 ± 0.006 χ^2/NDF : 18.6/8

Left: 0.000 ± 0.004 χ^2/NDF : 31.4/18

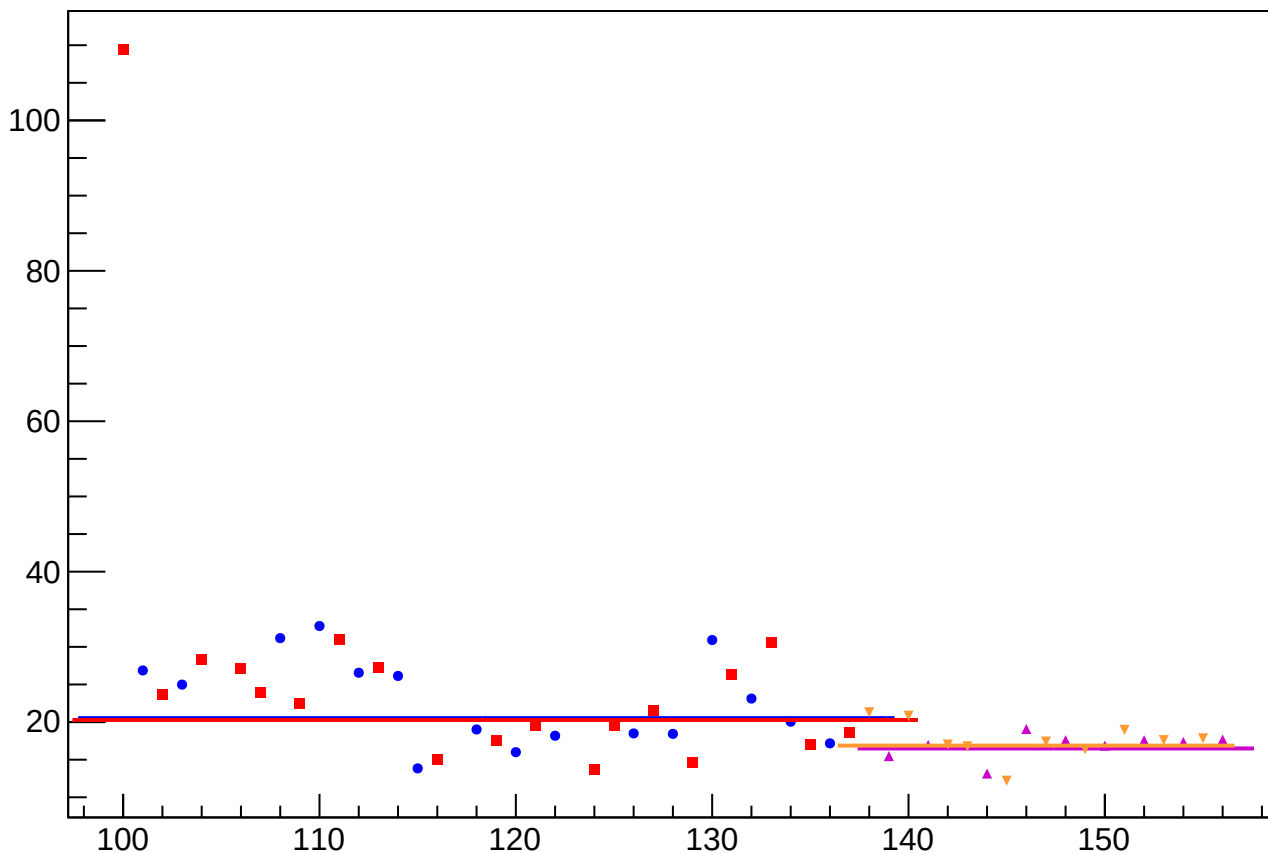
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.005 χ^2/NDF : 26.9/24

Out: -0.000 ± 0.005 χ^2/NDF : 29.4/28

All: -0.001 ± 0.003 χ^2/NDF : 56.4/53

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: 16.869+/-0.004 χ^2/NDF : 368927.9/9

Right Out: 20.282+/-0.006 χ^2/NDF : 864352.6/18

Left In: 16.491+/-0.004 χ^2/NDF : 167999.1/8

Left: 16.676+/-0.003 χ^2/NDF : 540758.1/18

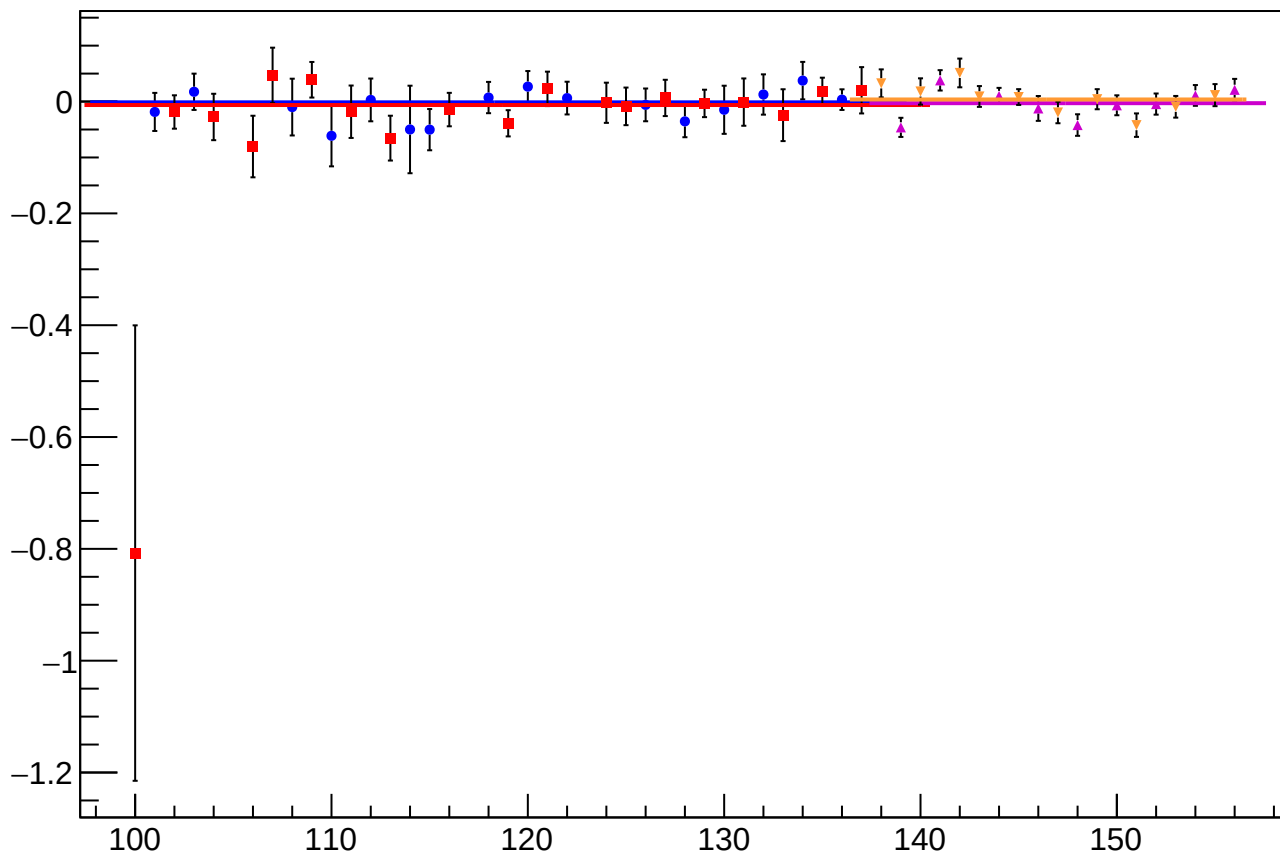
Right: 20.399+/-0.004 χ^2/NDF : 1571258.3/34

In: 17.940+/-0.003 χ^2/NDF : 1194380.2/24

Out: 18.170+/-0.003 χ^2/NDF : 1465169.1/28

All: 18.054+/-0.002 χ^2/NDF : 2661800.2/53

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: 0.004 ± 0.006 χ^2/NDF : 12.2/9

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.003 ± 0.006 χ^2/NDF : 18.6/8

Left: 0.000 ± 0.004 χ^2/NDF : 31.4/18

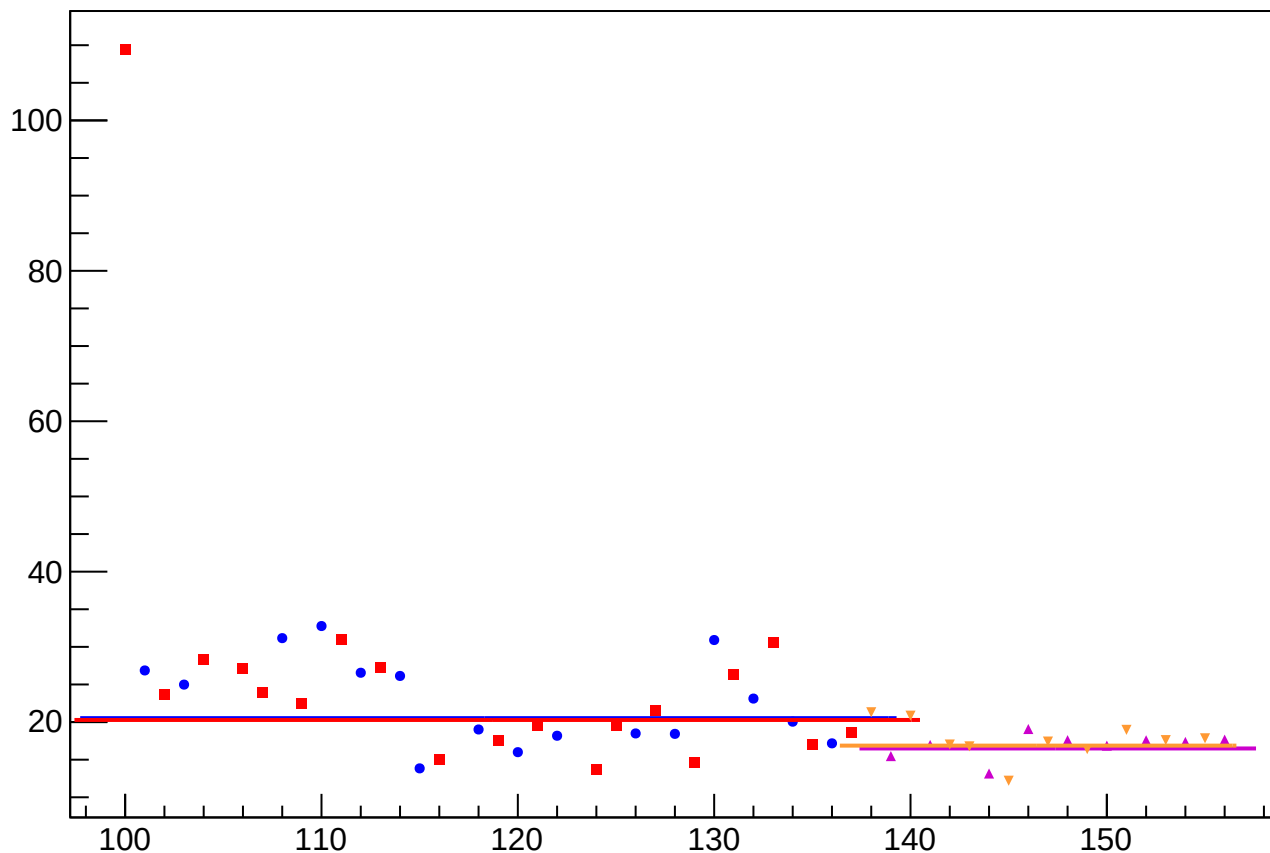
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.005 χ^2/NDF : 26.9/24

Out: -0.000 ± 0.005 χ^2/NDF : 29.4/28

All: -0.001 ± 0.003 χ^2/NDF : 56.4/53

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: 16.869 $\pm$ 0.004 χ^2 /NDF: 368927.9/9

Right Out: 20.282 $\pm$ 0.006 χ^2 /NDF: 864352.6/18

Left In: 16.491 $\pm$ 0.004 χ^2 /NDF: 167999.1/8

Left: 16.676 $\pm$ 0.003 χ^2 /NDF: 540758.1/18

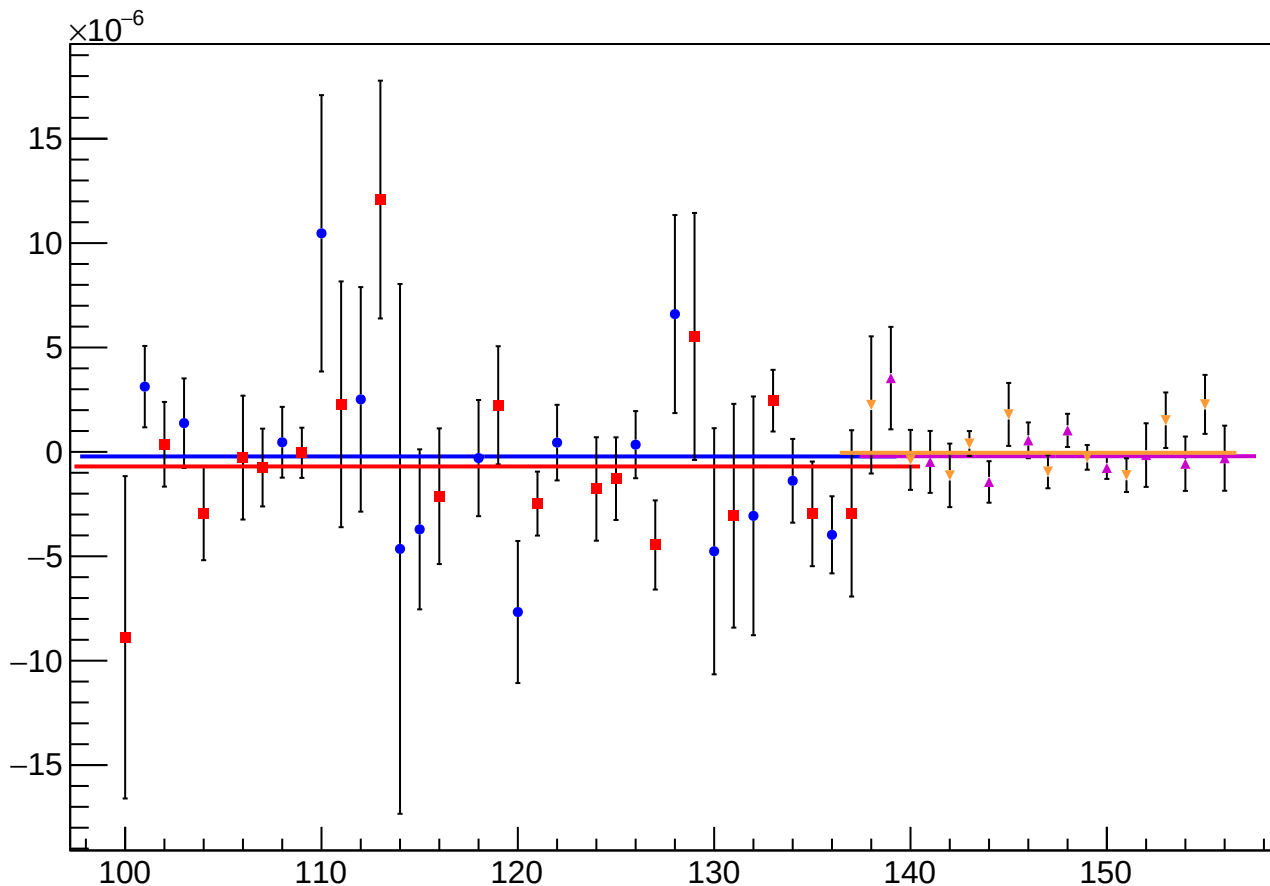
Right: 20.399 $\pm$ 0.004 χ^2 /NDF: 1571258.3/34

In: 17.940 $\pm$ 0.003 χ^2 /NDF: 1194380.2/24

Out: 18.170 $\pm$ 0.003 χ^2 /NDF: 1465169.1/28

All: 18.054 $\pm$ 0.002 χ^2 /NDF: 2661800.2/53

asym_sam_1357_2468_dd_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:10.3/9

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 21.0/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:8.3/8

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.8/18

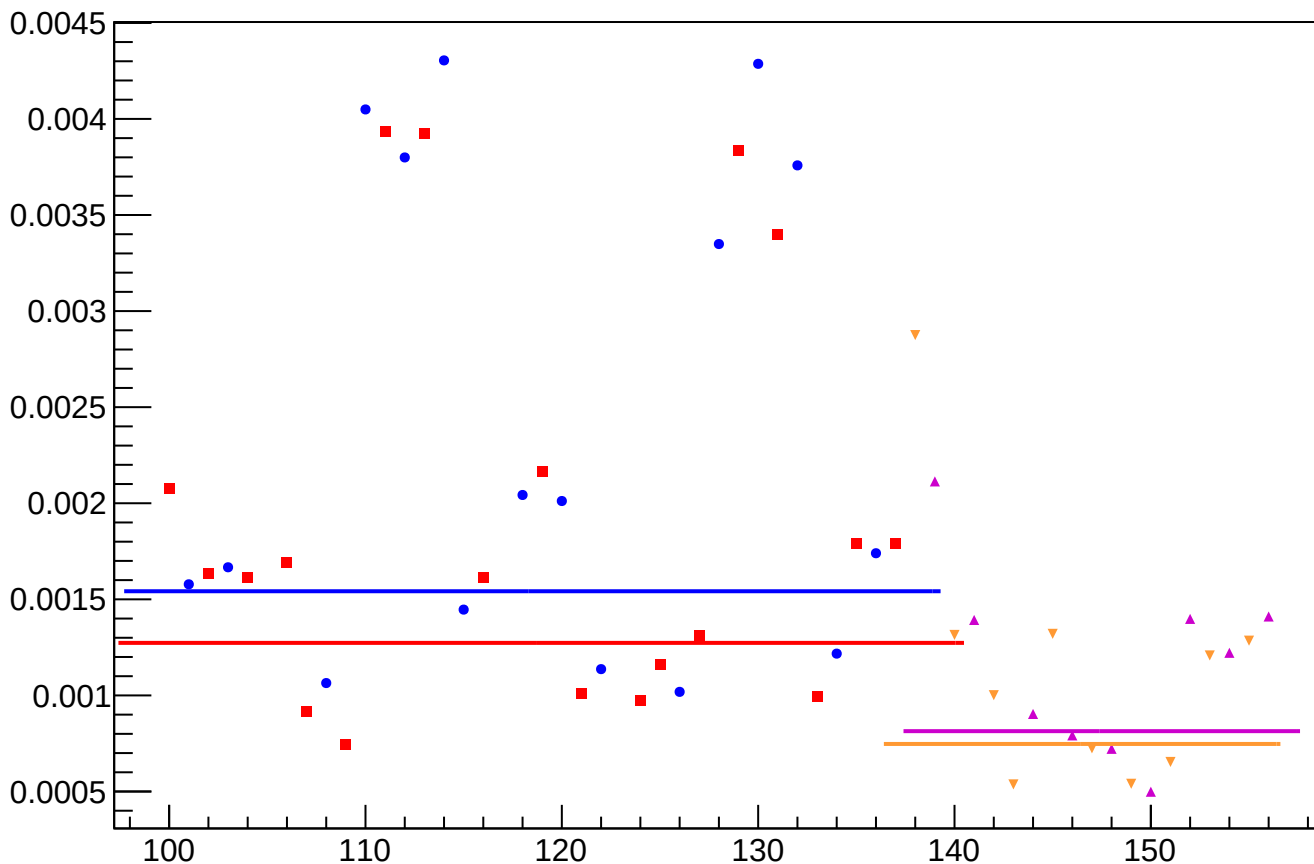
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.2/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:28.2/24

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:32.5/28

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 60.7/53

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 :2547781.1/9

Right Out: 0.001+/-0.000 χ^2/NDF : 2667436.5/18

Left In: 0.001+/-0.000 χ^2/NDF :2407161.5/8

Left: 0.001+/-0.000 χ^2/NDF : 5000938.0/18

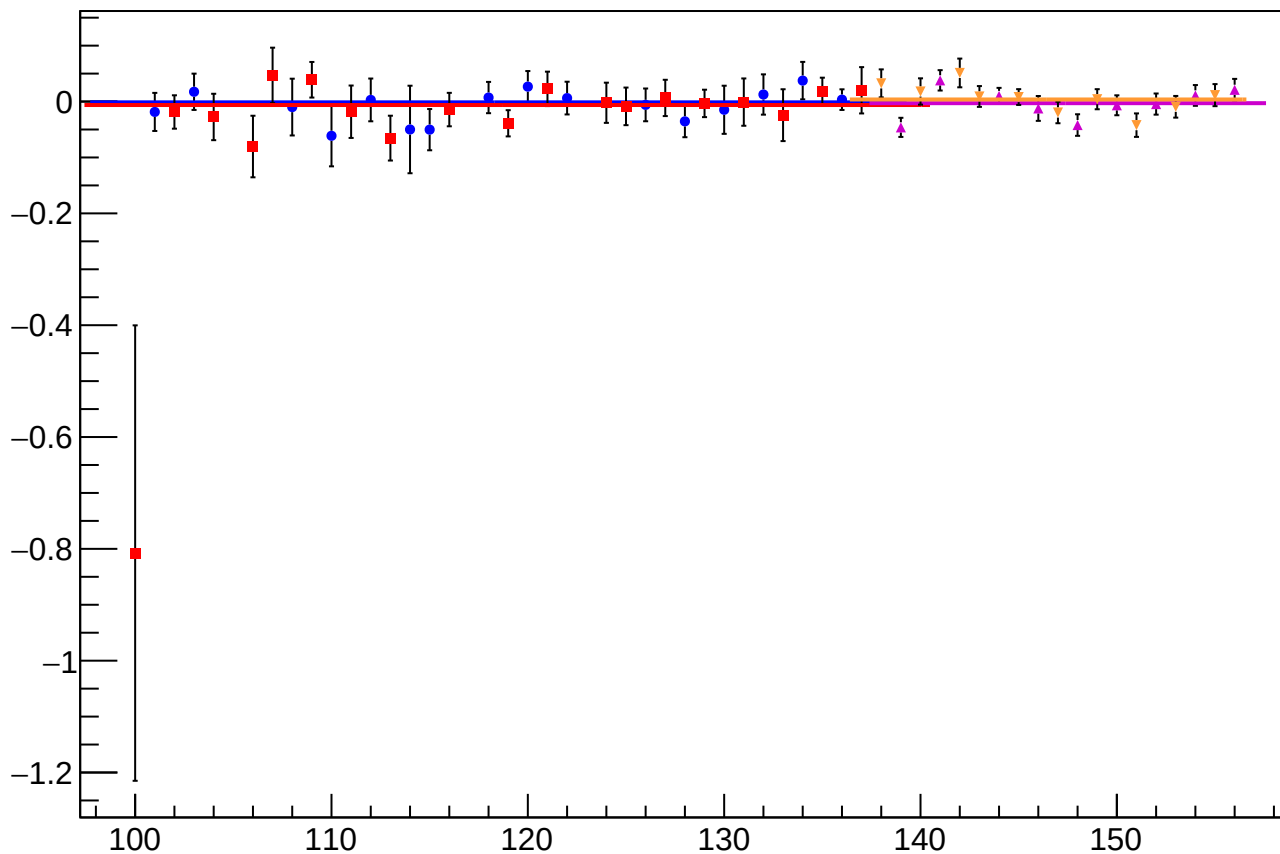
Right: 0.001+/-0.000 χ^2/NDF : 5298926.0/34

In: 0.001+/-0.000 χ^2/NDF :6935811.2/24

Out: 0.001+/-0.000 χ^2/NDF :6737642.4/28

All: 0.001+/-0.000 χ^2/NDF : 13780221.8/53

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: 0.004 ± 0.006 χ^2/NDF : 12.2/9

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.003 ± 0.006 χ^2/NDF : 18.6/8

Left: 0.000 ± 0.004 χ^2/NDF : 31.4/18

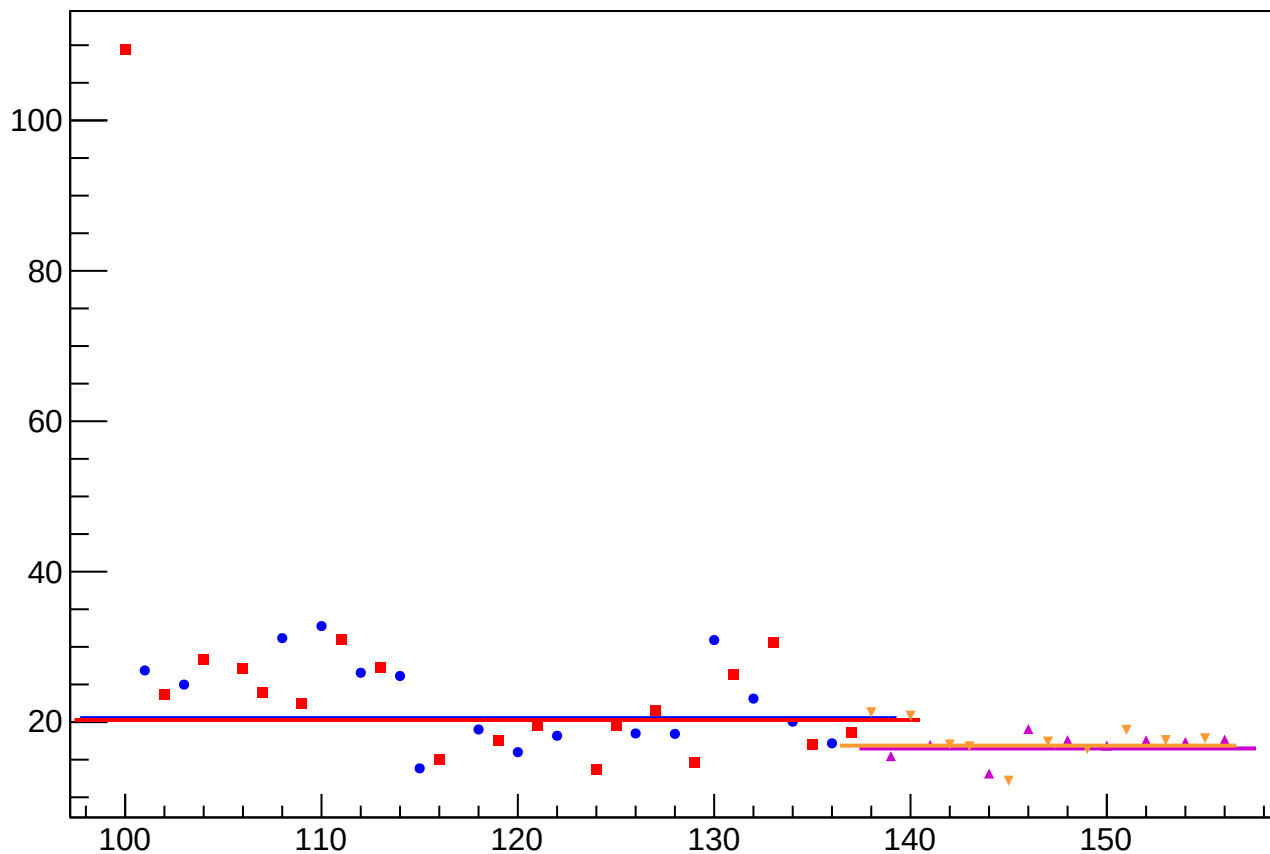
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.005 χ^2/NDF : 26.9/24

Out: -0.000 ± 0.005 χ^2/NDF : 29.4/28

All: -0.001 ± 0.003 χ^2/NDF : 56.4/53

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: 16.870+/-0.004 χ^2/NDF : 368864.0/9

Right Out: 20.281+/-0.006 χ^2/NDF : 864361.2/18

Left In: 16.491+/-0.004 χ^2/NDF : 168017.5/8

Left: 16.676+/-0.003 χ^2/NDF : 540715.0/18

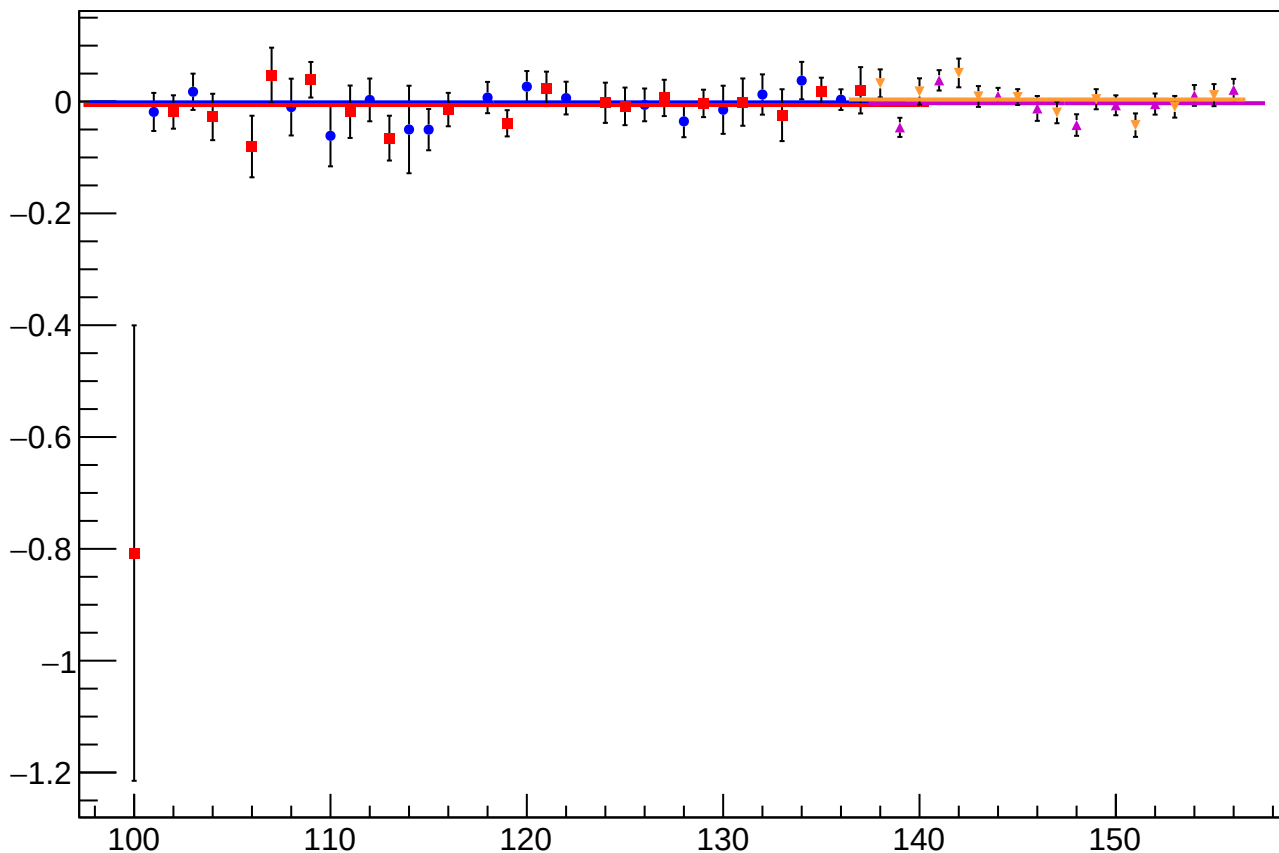
Right: 20.398+/-0.004 χ^2/NDF : 1571146.6/34

In: 17.939+/-0.003 χ^2/NDF : 1194181.6/24

Out: 18.170+/-0.003 χ^2/NDF : 1464994.7/28

All: 18.054+/-0.002 χ^2/NDF : 2661427.5/53

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: 0.004 ± 0.006 χ^2/NDF : 12.2/9

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.003 ± 0.006 χ^2/NDF : 18.6/8

Left: 0.000 ± 0.004 χ^2/NDF : 31.4/18

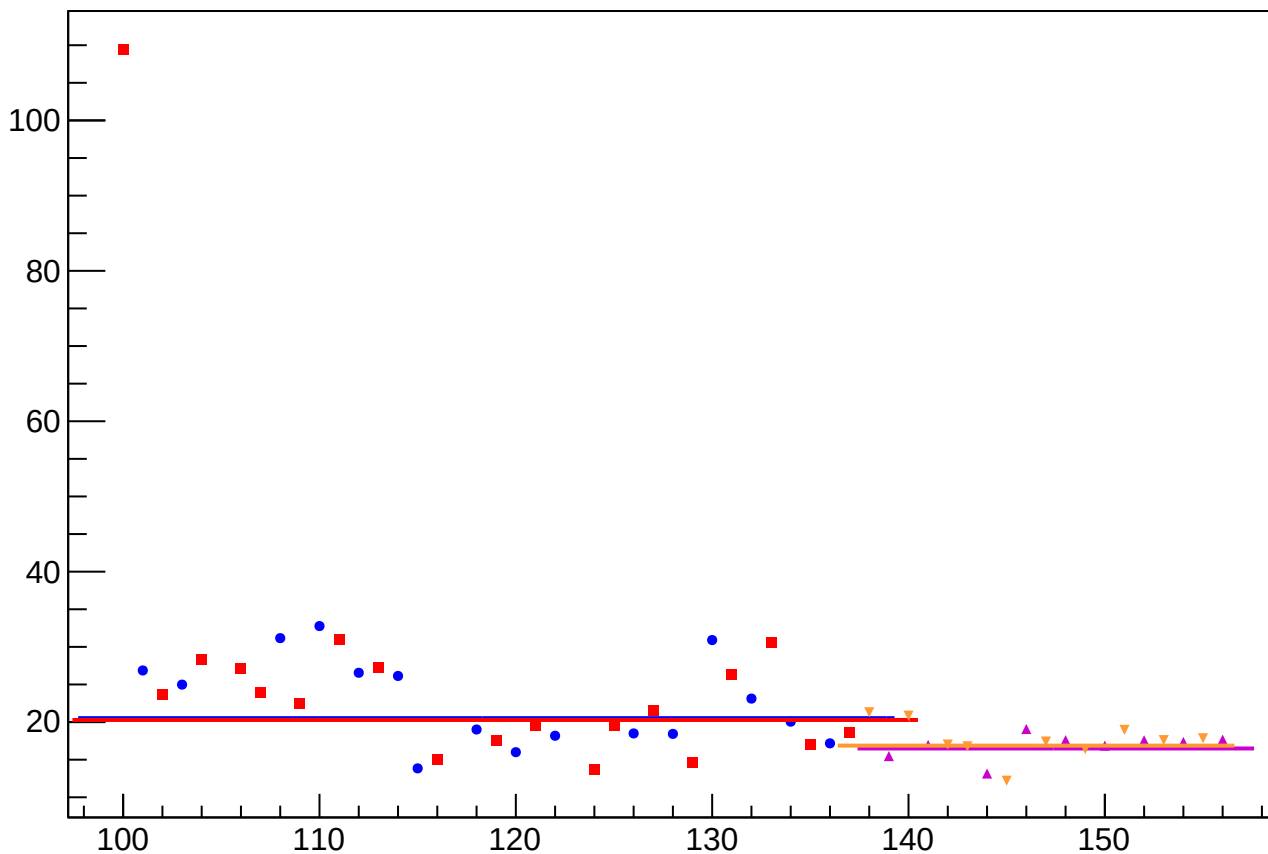
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.005 χ^2/NDF : 26.9/24

Out: -0.000 ± 0.005 χ^2/NDF : 29.4/28

All: -0.001 ± 0.003 χ^2/NDF : 56.4/53

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: 16.870+/-0.004 χ^2/NDF : 368864.0/9

Right Out: 20.281+/-0.006 χ^2/NDF : 864361.2/18

Left In: 16.491+/-0.004 χ^2/NDF : 168017.5/8

Left: 16.676+/-0.003 χ^2/NDF : 540715.0/18

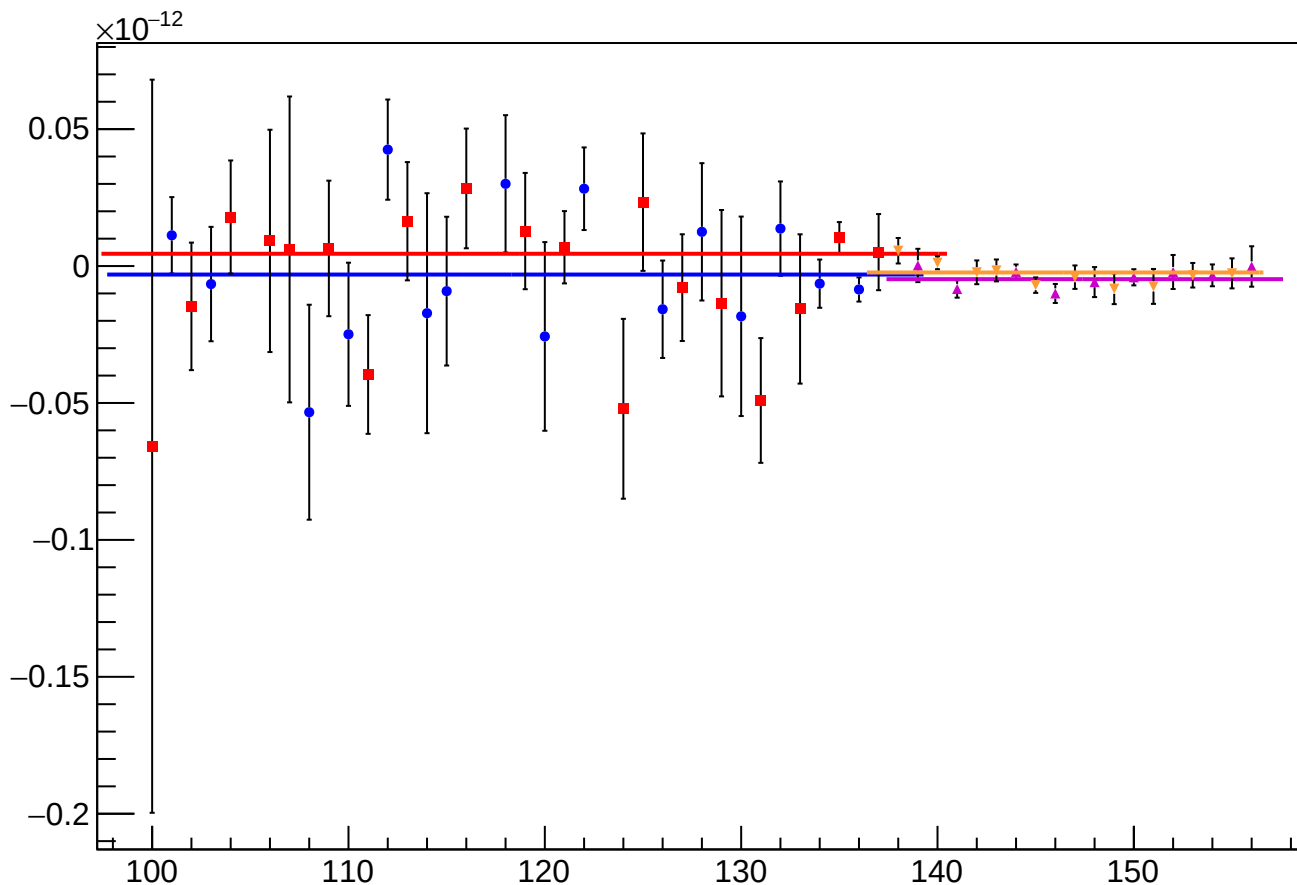
Right: 20.398+/-0.004 χ^2/NDF : 1571146.6/34

In: 17.939+/-0.003 χ^2/NDF : 1194181.6/24

Out: 18.170+/-0.003 χ^2/NDF : 1464994.7/28

All: 18.054+/-0.002 χ^2/NDF : 2661427.5/53

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:9.8/9

Right Out: 0.000+/-0.000 χ^2 /NDF: 18.6/18

Left In: -0.000+/-0.000 χ^2 /NDF:5.9/8

Left: -0.000+/-0.000 χ^2 /NDF: 17.6/18

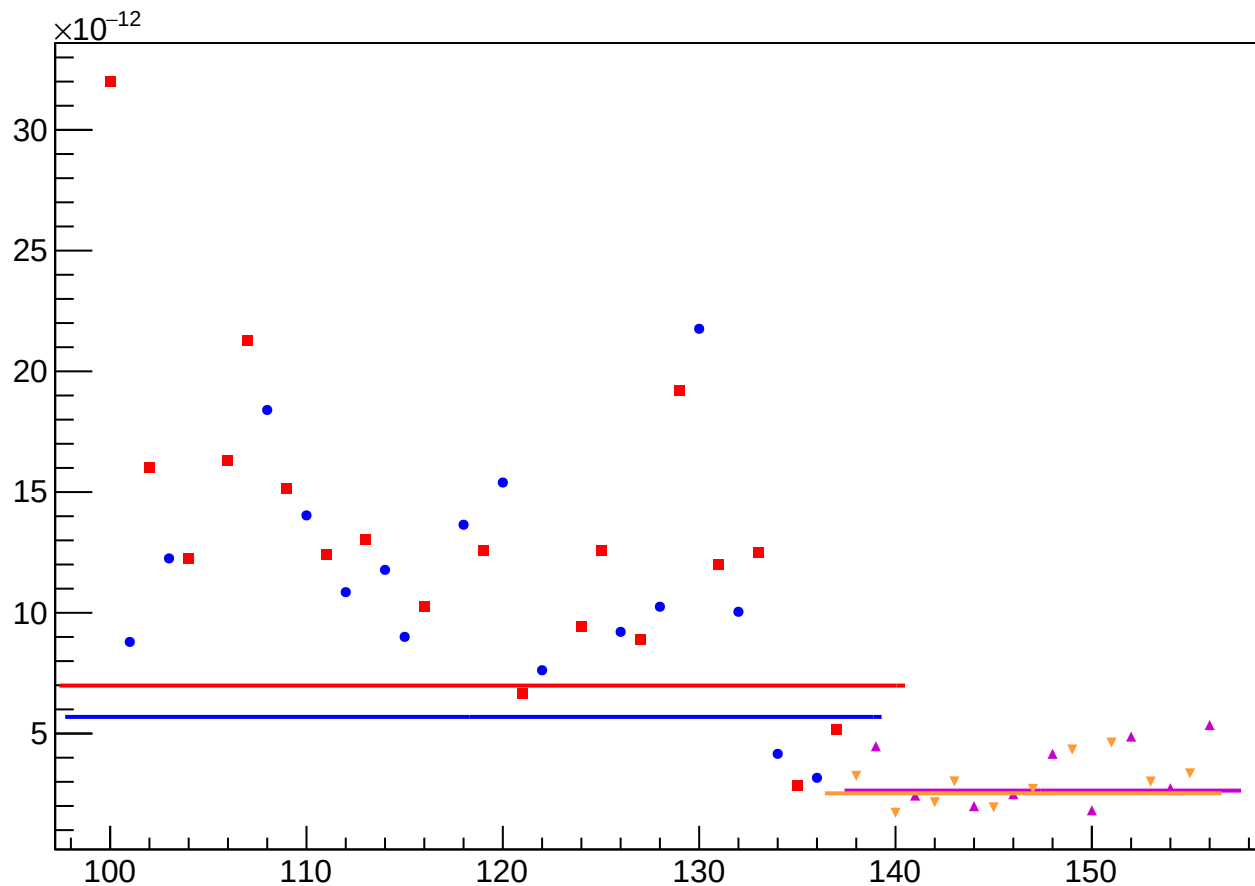
Right: 0.000+/-0.000 χ^2 /NDF: 40.8/34

In: -0.000+/-0.000 χ^2 /NDF:26.1/24

Out: -0.000+/-0.000 χ^2 /NDF:31.3/28

All: -0.000+/-0.000 χ^2 /NDF: 60.3/53

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 : 906571.1/9

Right Out: 0.000+/-0.000 χ^2/NDF : 3108073.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1147322.3/8

Left: 0.000+/-0.000 χ^2/NDF : 2062137.7/18

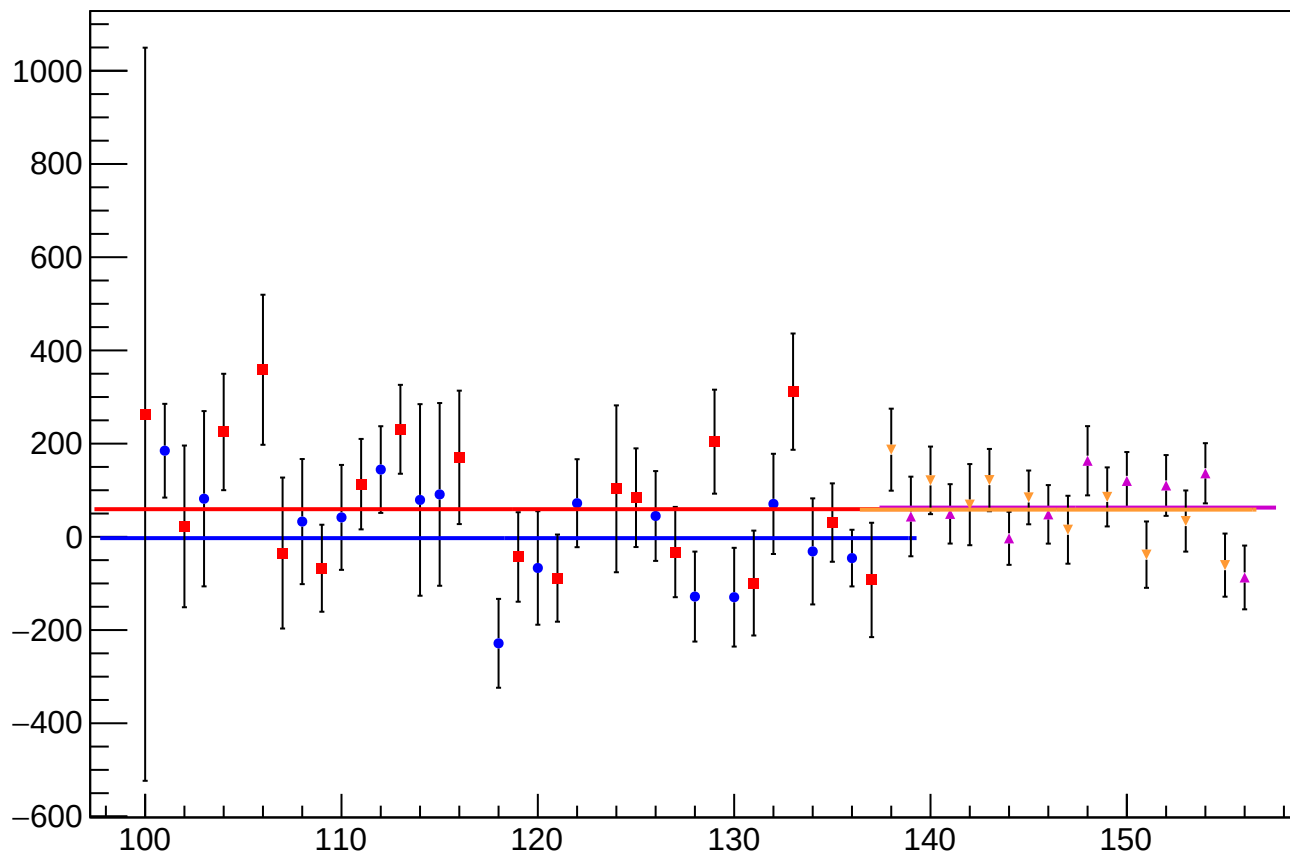
Right: 0.000+/-0.000 χ^2/NDF : 5945633.6/34

In: 0.000+/-0.000 χ^2/NDF : 5371747.2/24

Out: 0.000+/-0.000 χ^2/NDF : 6435852.7/28

All: 0.000+/-0.000 χ^2/NDF : 11817290.8/53

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: 58.399 ± 22.030 $\chi^2/\text{NDF}: 9.6/9$

Right Out: 59.349 ± 26.382 $\chi^2/\text{NDF}: 25.7/18$

Left In: 62.738 ± 21.948 $\chi^2/\text{NDF}: 10.8/8$

Left: 60.577 ± 15.548 $\chi^2/\text{NDF}: 20.4/18$

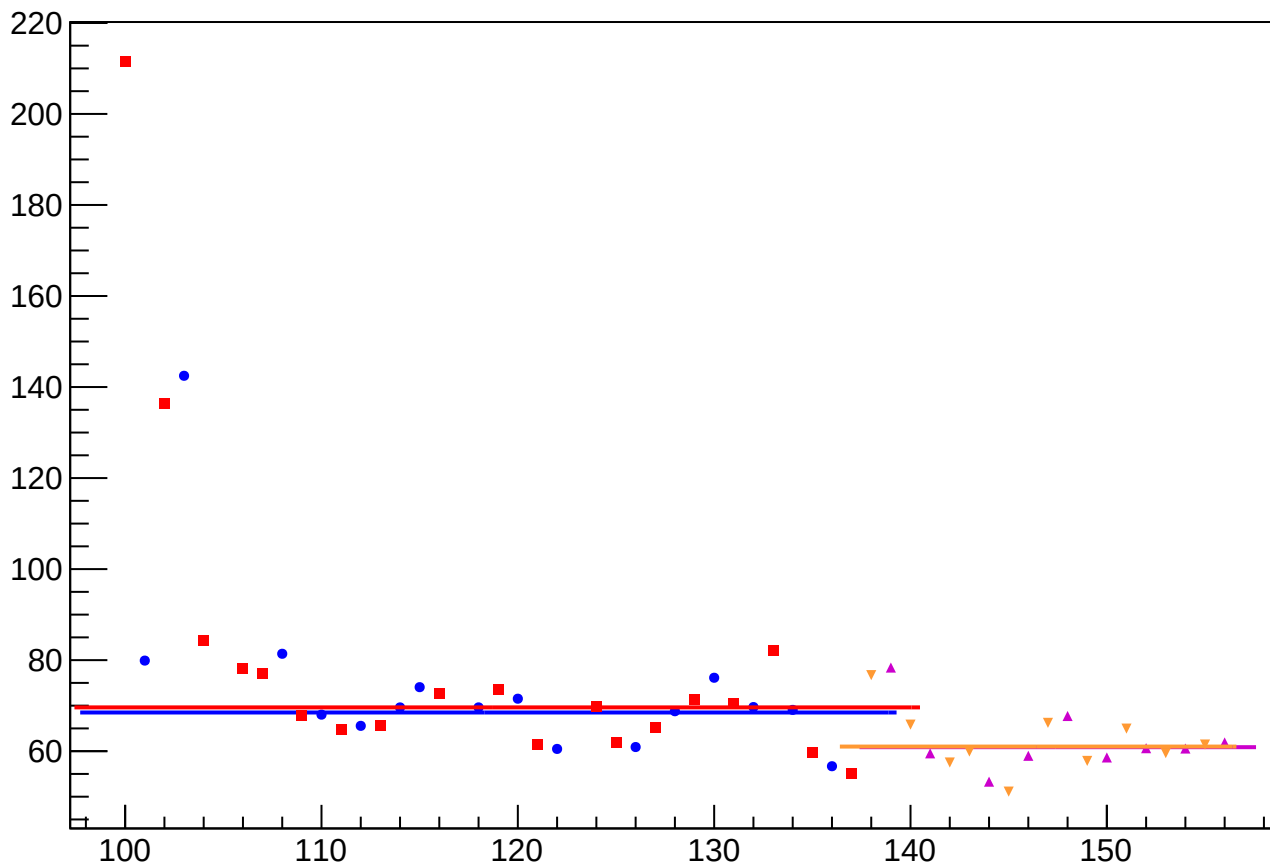
Right: 28.091 ± 18.595 $\chi^2/\text{NDF}: 46.2/34$

In: 35.742 ± 16.828 $\chi^2/\text{NDF}: 32.2/24$

Out: 58.789 ± 16.910 $\chi^2/\text{NDF}: 35.3/28$

All: 47.210 ± 11.928 $\chi^2/\text{NDF}: 68.4/53$

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499+/-0.019 χ^2/NDF : 471865.0/15

Left Out: 61.011+/-0.016 χ^2/NDF :157430.5/9

Right Out: 69.620+/-0.019 χ^2/NDF : 520403.9/18

Left In: 60.878+/-0.016 χ^2/NDF :142247.3/8

Left: 60.944+/-0.011 χ^2/NDF : 299714.7/18

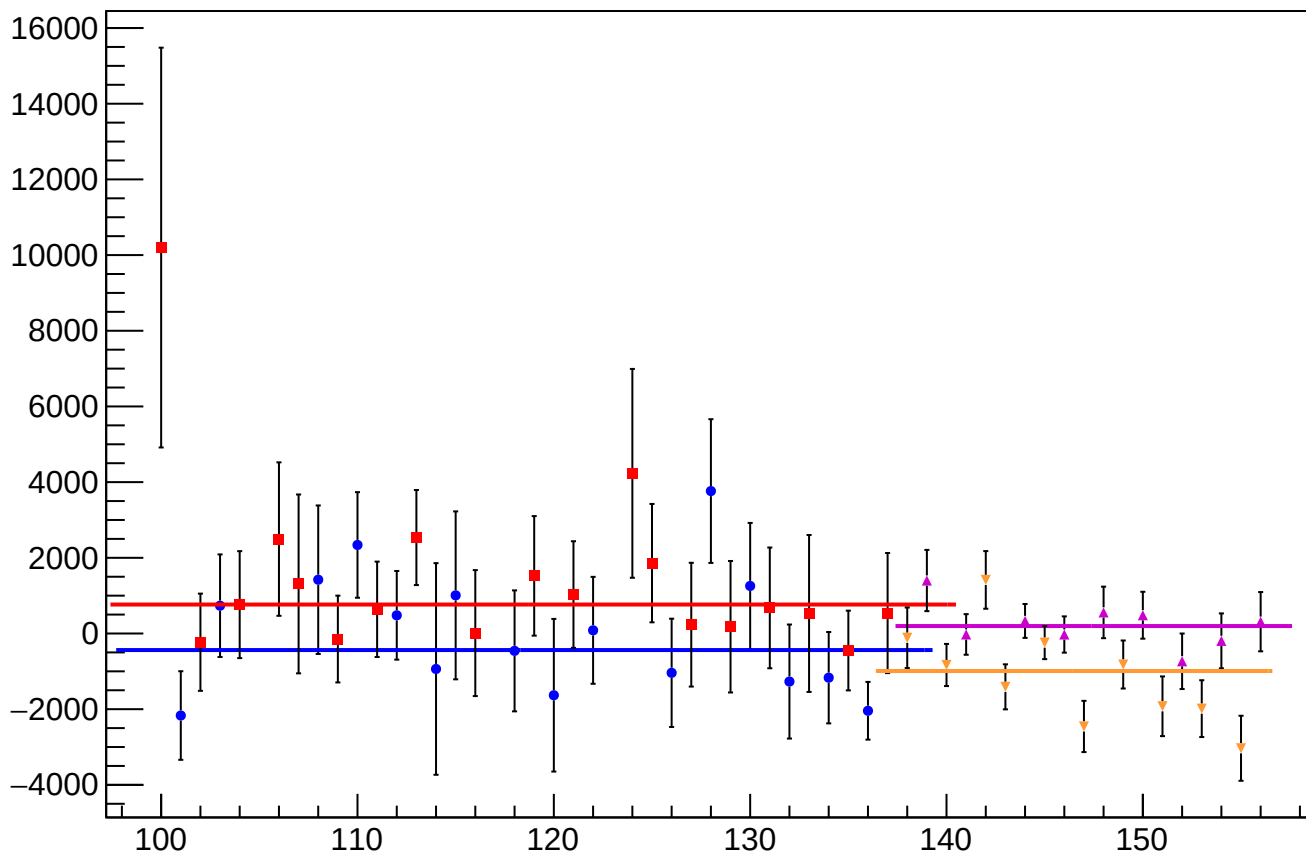
Right: 69.056+/-0.013 χ^2/NDF : 994086.4/34

In: 64.019+/-0.012 χ^2/NDF :713484.0/24

Out: 64.548+/-0.012 χ^2/NDF :803289.6/28

All: 64.282+/-0.008 χ^2/NDF : 1517757.9/53

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: -991.283+/-204.162 χ^2/NDF : 28.3/9

Right Out: 765.341+/-353.052 χ^2/NDF : 11.3/18

Left In: 196.914+/-202.055 χ^2/NDF : 5.1/8

Left: -391.022+/-143.614 χ^2/NDF : 50.5/18

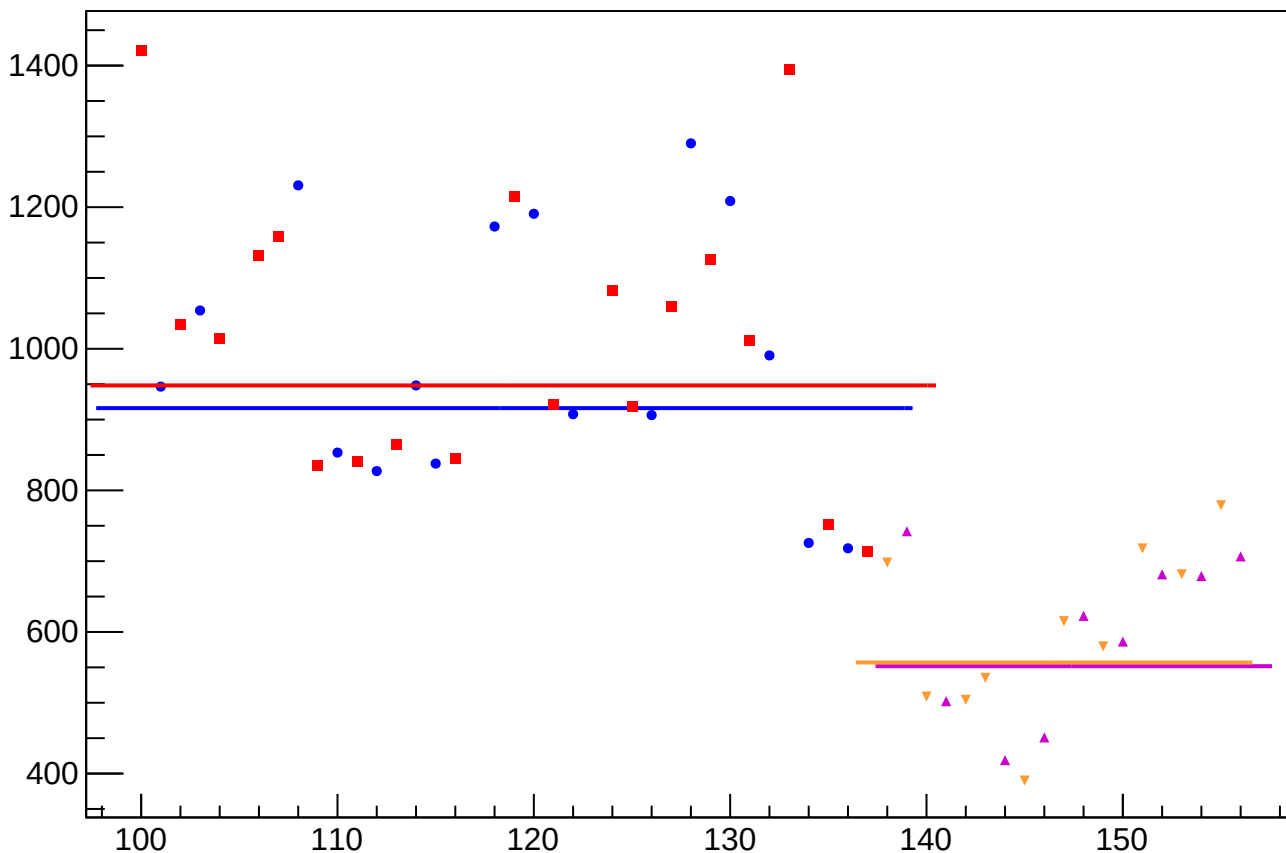
Right: 156.799+/-248.157 χ^2/NDF : 37.7/34

In: 37.581+/-174.848 χ^2/NDF : 28.1/24

Out: -551.068+/-176.739 χ^2/NDF : 58.2/28

All: -253.579+/-124.299 χ^2/NDF : 91.9/53

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: 556.929+/-0.144 χ^2/NDF : 671286.5/9

Right Out: 948.235+/-0.250 χ^2/NDF : 415192.3/18

Left In: 551.678+/-0.143 χ^2/NDF : 622302.8/8

Left: 554.277+/-0.102 χ^2/NDF : 1294257.7/18

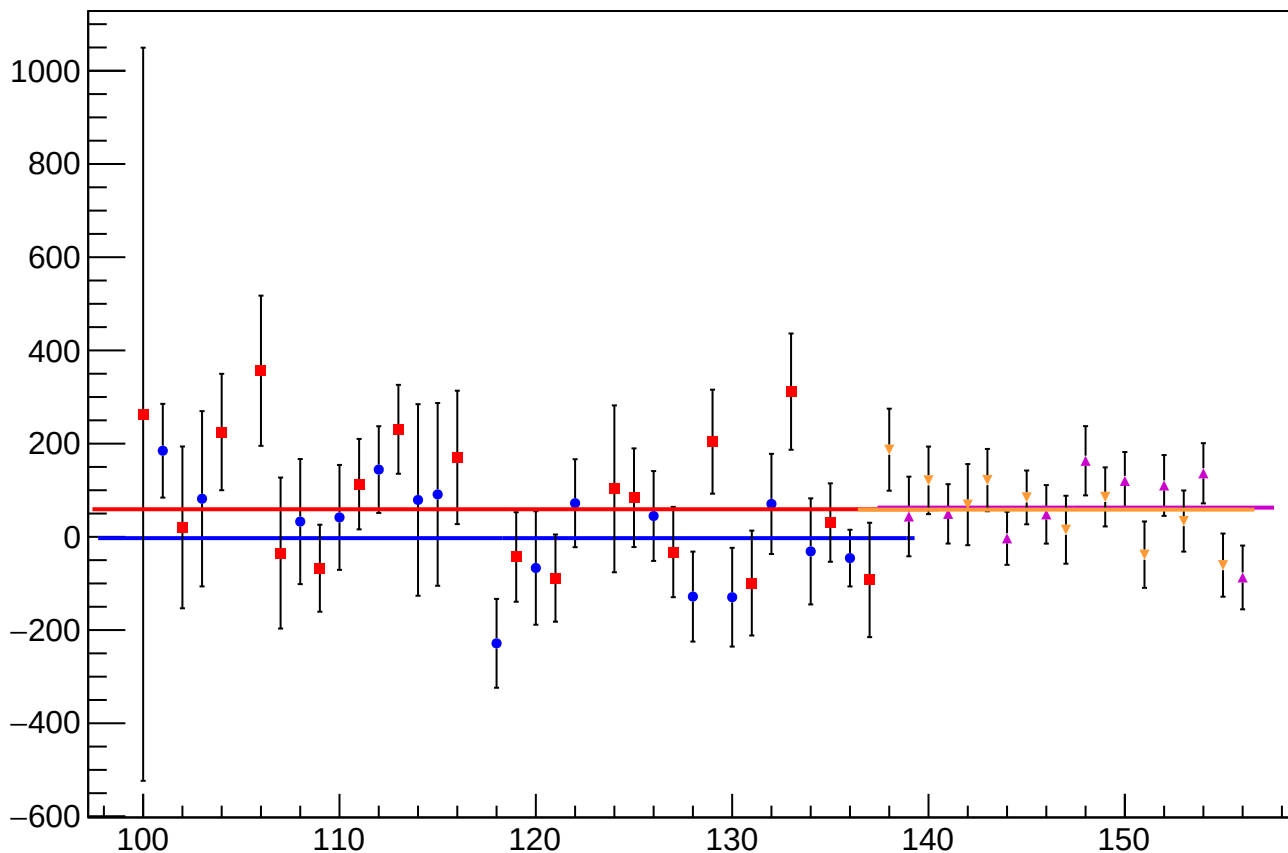
Right: 932.012+/-0.175 χ^2/NDF : 932665.3/34

In: 643.229+/-0.124 χ^2/NDF : 2766126.7/24

Out: 654.992+/-0.125 χ^2/NDF : 2927663.4/28

All: 649.047+/-0.088 χ^2/NDF : 5698267.6/53

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: 58.405 ± 22.030 $\chi^2/\text{NDF}: 9.6/9$

Right Out: 59.226 ± 26.384 $\chi^2/\text{NDF}: 25.7/18$

Left In: 62.738 ± 21.948 $\chi^2/\text{NDF}: 10.8/8$

Left: 60.580 ± 15.548 $\chi^2/\text{NDF}: 20.4/18$

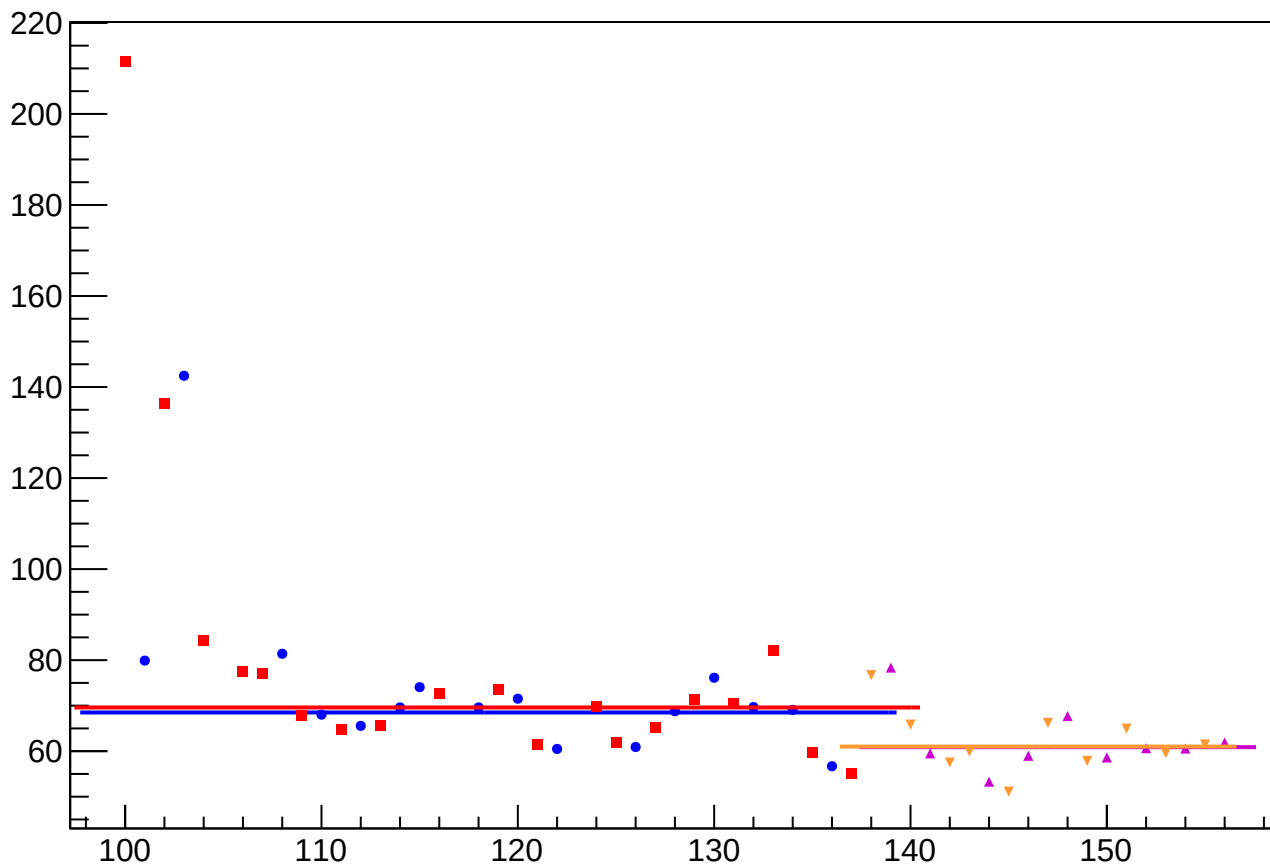
Right: 28.026 ± 18.595 $\chi^2/\text{NDF}: 46.1/34$

In: 35.740 ± 16.828 $\chi^2/\text{NDF}: 32.2/24$

Out: 58.742 ± 16.910 $\chi^2/\text{NDF}: 35.3/28$

All: 47.185 ± 11.928 $\chi^2/\text{NDF}: 68.4/53$

cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499 ± 0.019 $\chi^2/\text{NDF}: 471868.0/15$

Left Out: 61.011 ± 0.016 $\chi^2/\text{NDF}: 157430.5/9$

Right Out: 69.600 ± 0.019 $\chi^2/\text{NDF}: 519788.9/18$

Left In: 60.878 ± 0.016 $\chi^2/\text{NDF}: 142247.3/8$

Left: 60.944 ± 0.011 $\chi^2/\text{NDF}: 299714.7/18$

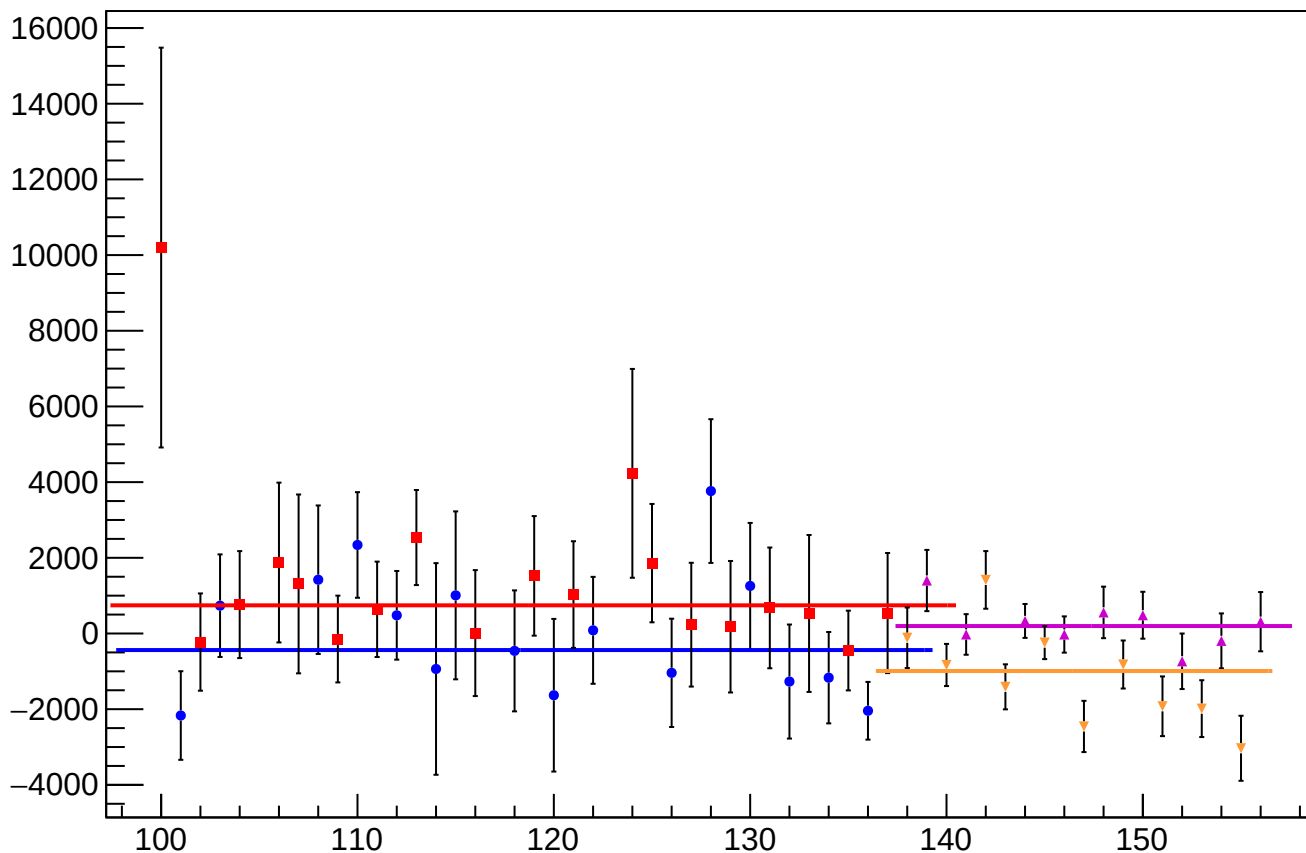
Right: 69.046 ± 0.013 $\chi^2/\text{NDF}: 993412.6/34$

In: 64.019 ± 0.012 $\chi^2/\text{NDF}: 713487.0/24$

Out: 64.540 ± 0.012 $\chi^2/\text{NDF}: 802108.1/28$

All: 64.278 ± 0.008 $\chi^2/\text{NDF}: 1516549.5/53$

asym_sam_12345678_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -437.415+/-348.881 χ^2/NDF : 20.6/15

Left Out: -991.276+/-204.162 χ^2/NDF : 28.3/9

Right Out: 744.388+/-353.488 χ^2/NDF : 10.9/18

Left In: 196.918+/-202.055 χ^2/NDF : 5.1/8

Left: -391.017+/-143.614 χ^2/NDF : 50.5/18

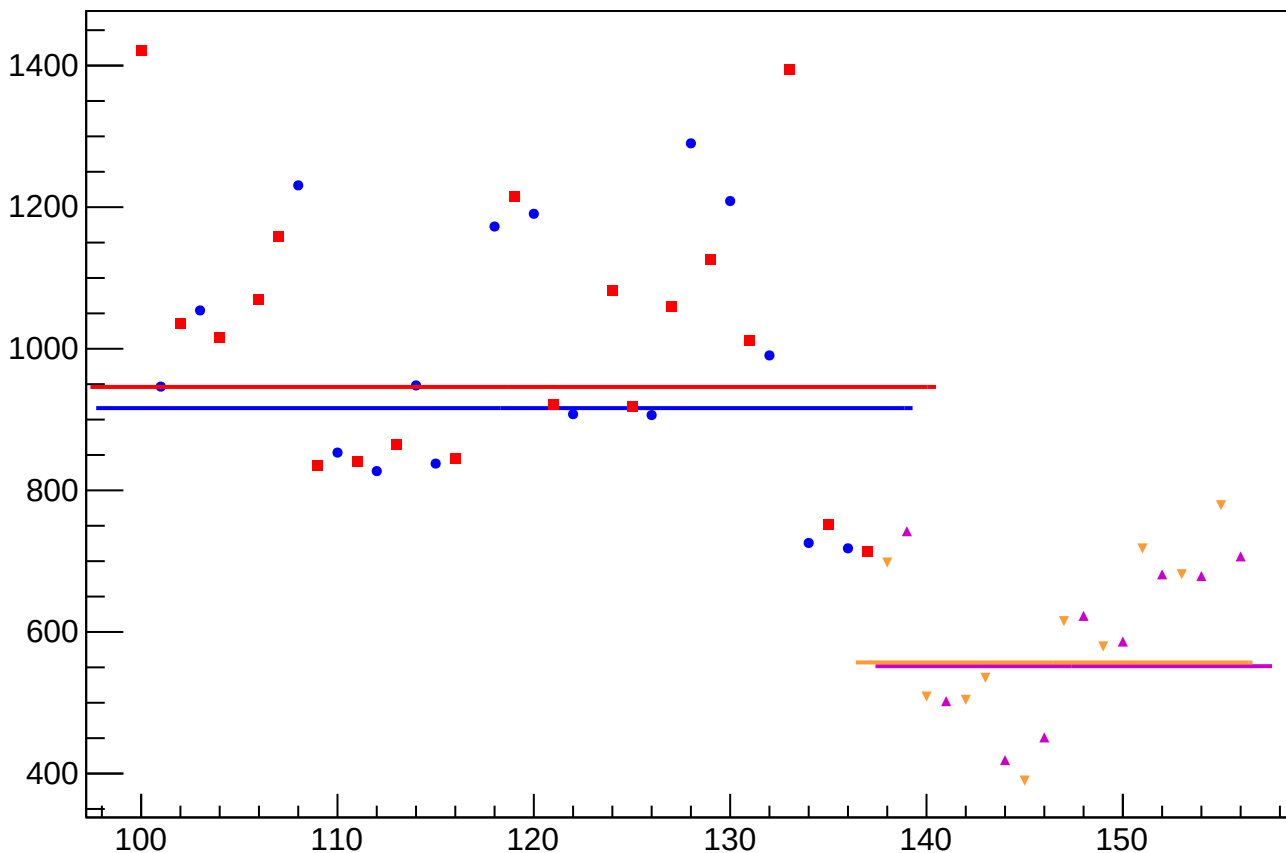
Right: 145.736+/-248.309 χ^2/NDF : 37.1/34

In: 37.592+/-174.849 χ^2/NDF : 28.1/24

Out: -557.118+/-176.793 χ^2/NDF : 57.2/28

All: -256.474+/-124.318 χ^2/NDF : 91.1/53

asym_sam_12345678_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174 $\pm$ 0.247 χ^2 /NDF: 509149.2/15

Left Out: 556.929 $\pm$ 0.144 χ^2 /NDF: 671289.6/9

Right Out: 946.093 $\pm$ 0.250 χ^2 /NDF: 405411.3/18

Left In: 551.678 $\pm$ 0.143 χ^2 /NDF: 622300.8/8

Left: 554.276 $\pm$ 0.102 χ^2 /NDF: 1294258.6/18

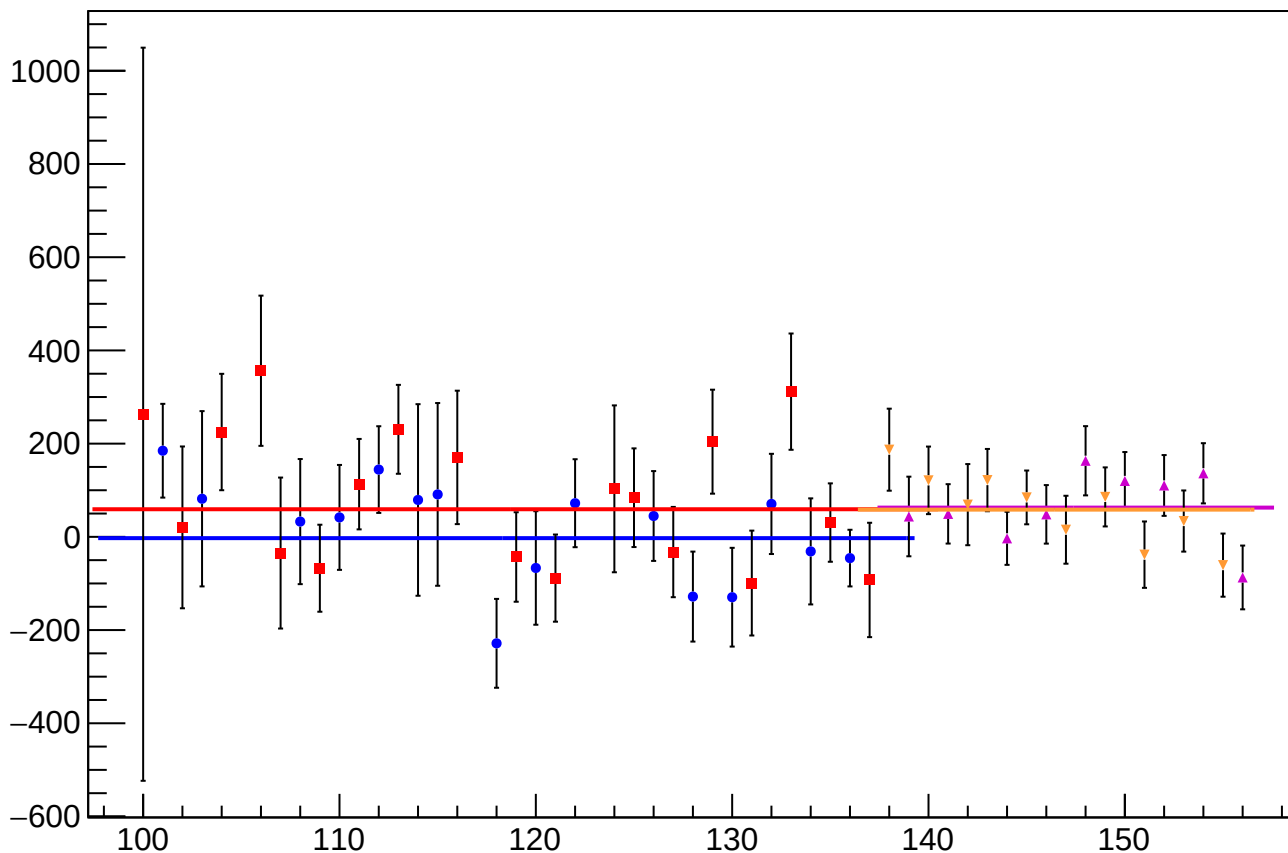
Right: 930.937 $\pm$ 0.176 χ^2 /NDF: 921817.9/34

In: 643.229 $\pm$ 0.124 χ^2 /NDF: 2766167.2/24

Out: 654.274 $\pm$ 0.125 χ^2 /NDF: 2894413.6/28

All: 648.691 $\pm$ 0.088 χ^2 /NDF: 5664527.2/53

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: 58.405 ± 22.030 $\chi^2/\text{NDF}: 9.6/9$

Right Out: 59.226 ± 26.384 $\chi^2/\text{NDF}: 25.7/18$

Left In: 62.738 ± 21.948 $\chi^2/\text{NDF}: 10.8/8$

Left: 60.580 ± 15.548 $\chi^2/\text{NDF}: 20.4/18$

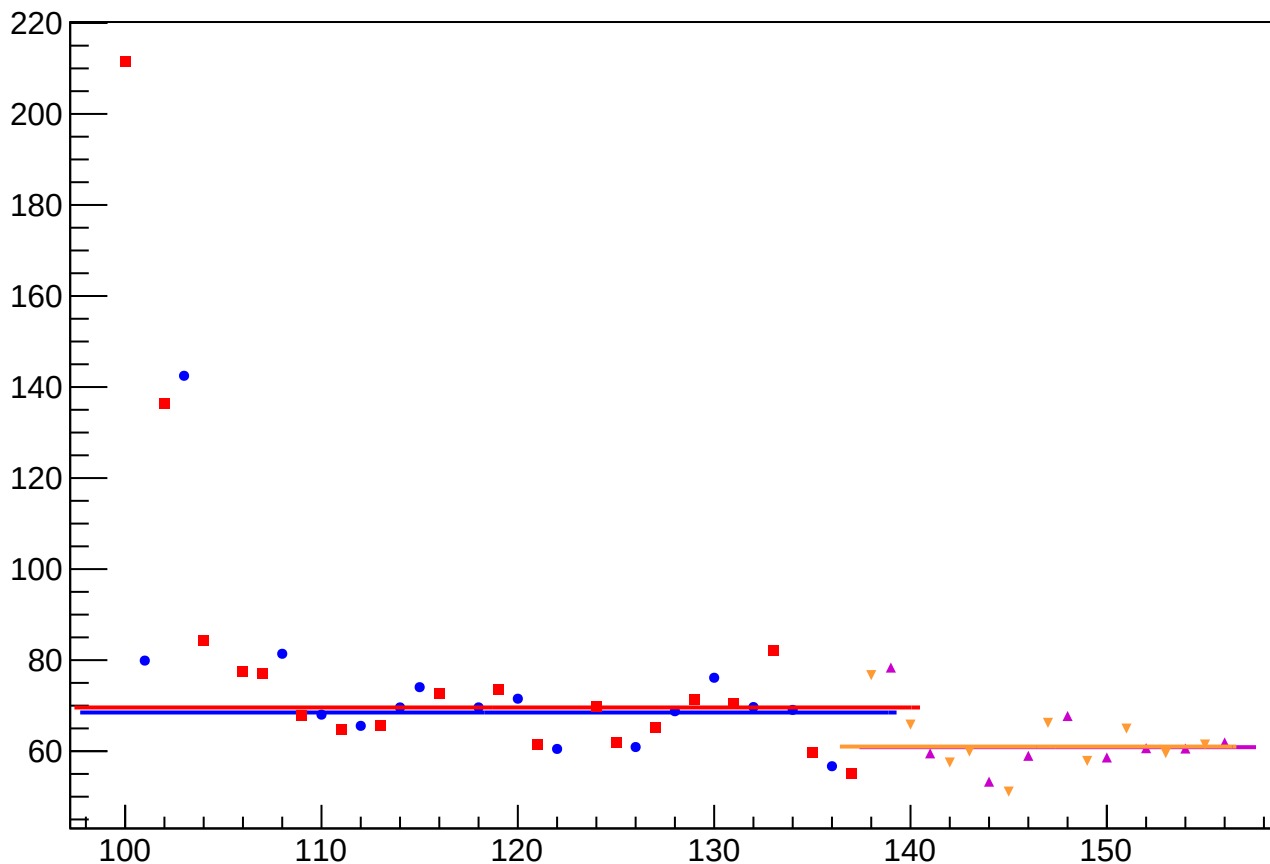
Right: 28.026 ± 18.595 $\chi^2/\text{NDF}: 46.1/34$

In: 35.740 ± 16.828 $\chi^2/\text{NDF}: 32.2/24$

Out: 58.742 ± 16.910 $\chi^2/\text{NDF}: 35.3/28$

All: 47.185 ± 11.928 $\chi^2/\text{NDF}: 68.4/53$

eigen_cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499+/-0.019 χ^2/NDF : 471868.0/15

Left Out: 61.011+/-0.016 χ^2/NDF :157430.5/9

Right Out: 69.600+/-0.019 χ^2/NDF : 519788.9/18

Left In: 60.878+/-0.016 χ^2/NDF :142247.3/8

Left: 60.944+/-0.011 χ^2/NDF : 299714.7/18

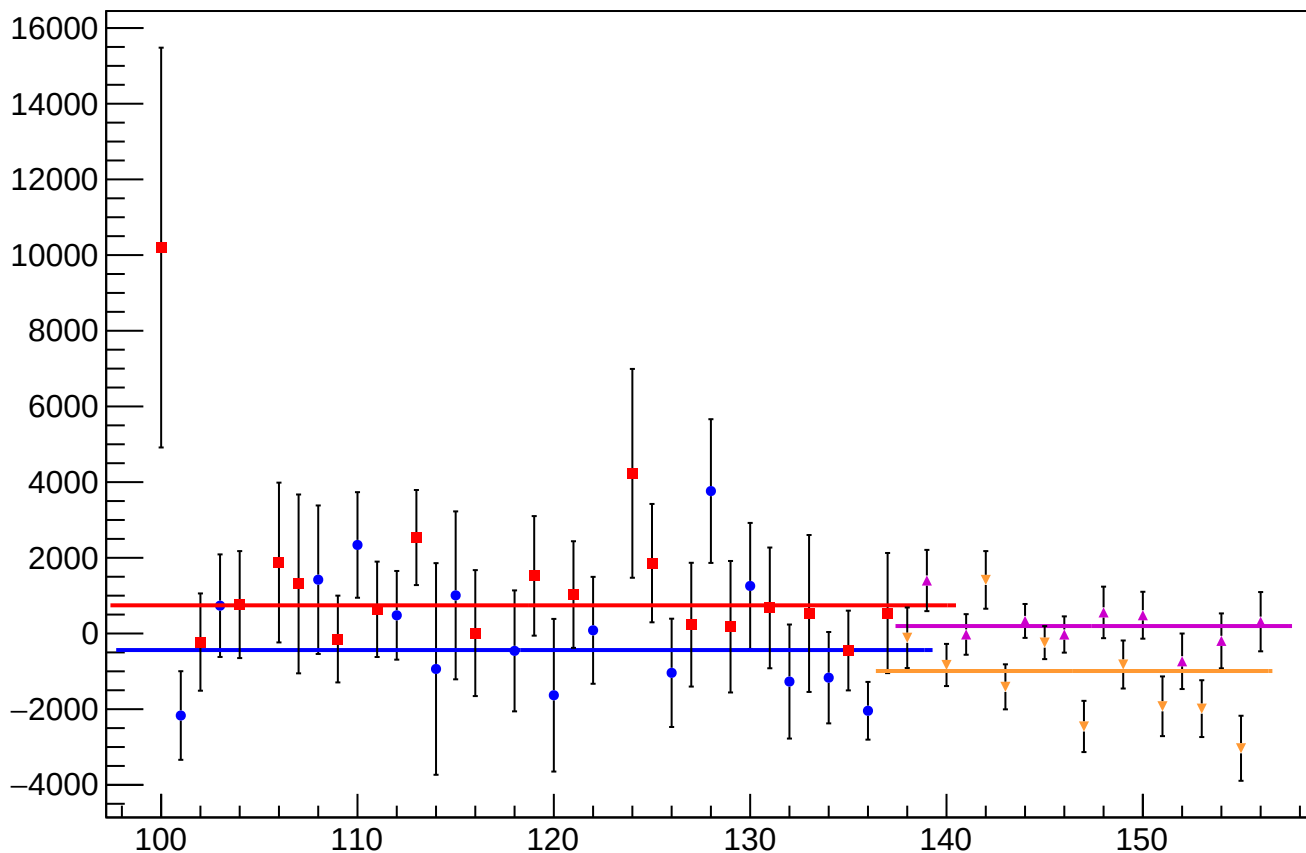
Right: 69.046+/-0.013 χ^2/NDF : 993412.6/34

In: 64.019+/-0.012 χ^2/NDF :713487.0/24

Out: 64.540+/-0.012 χ^2/NDF :802108.1/28

All: 64.278+/-0.008 χ^2/NDF : 1516549.5/53

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: -991.276+/-204.162 χ^2/NDF : 28.3/9

Right Out: 744.388+/-353.488 χ^2/NDF : 10.9/18

Left In: 196.918+/-202.055 χ^2/NDF : 5.1/8

Left: -391.017+/-143.614 χ^2/NDF : 50.5/18

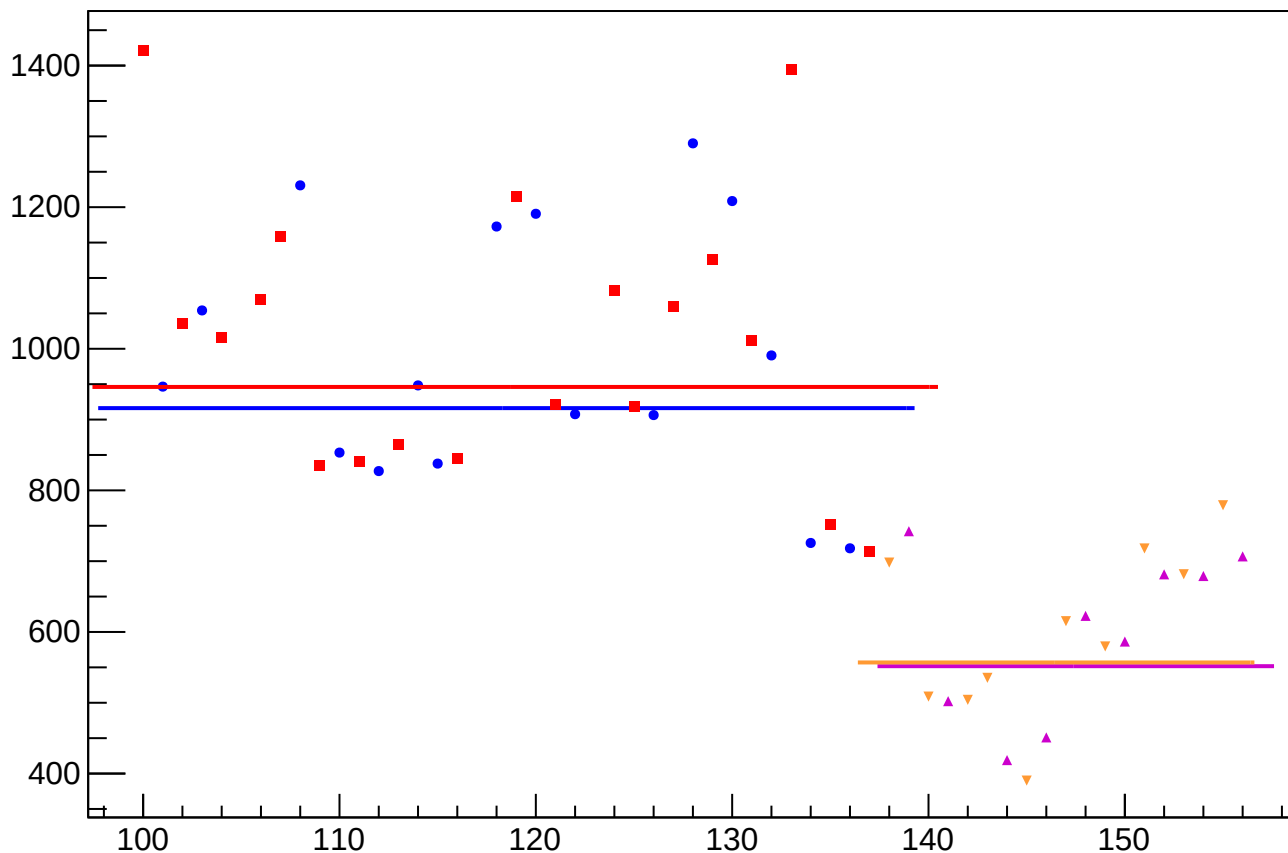
Right: 145.736+/-248.309 χ^2/NDF : 37.1/34

In: 37.592+/-174.849 χ^2/NDF : 28.1/24

Out: -557.118+/-176.793 χ^2/NDF : 57.2/28

All: -256.474+/-124.318 χ^2/NDF : 91.1/53

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174 $\pm$ 0.247 χ^2 /NDF: 509149.2/15

Left Out: 556.929 $\pm$ 0.144 χ^2 /NDF: 671289.6/9

Right Out: 946.093 $\pm$ 0.250 χ^2 /NDF: 405411.3/18

Left In: 551.678 $\pm$ 0.143 χ^2 /NDF: 622300.8/8

Left: 554.276 $\pm$ 0.102 χ^2 /NDF: 1294258.6/18

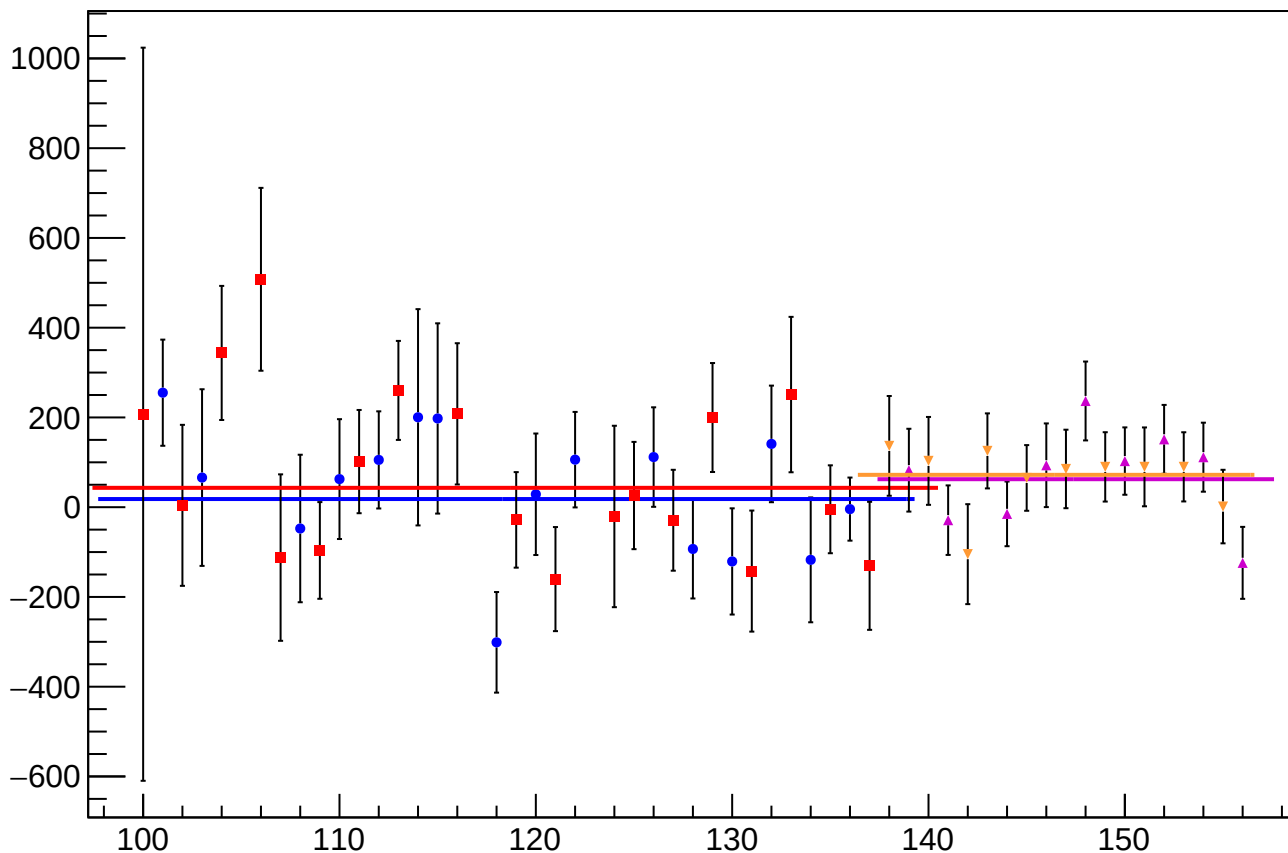
Right: 930.937 $\pm$ 0.176 χ^2 /NDF: 921817.9/34

In: 643.229 $\pm$ 0.124 χ^2 /NDF: 2766167.2/24

Out: 654.274 $\pm$ 0.125 χ^2 /NDF: 2894413.6/28

All: 648.691 $\pm$ 0.088 χ^2 /NDF: 5664527.2/53

dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 18.175+/-30.346 χ^2/NDF : 20.1/15

Left Out: 72.103+/-27.310 χ^2/NDF : 4.3/9

Right Out: 43.146+/-30.707 χ^2/NDF : 27.7/18

Left In: 62.365+/-26.790 χ^2/NDF : 14.1/8

Left: 67.140+/-19.125 χ^2/NDF : 18.4/18

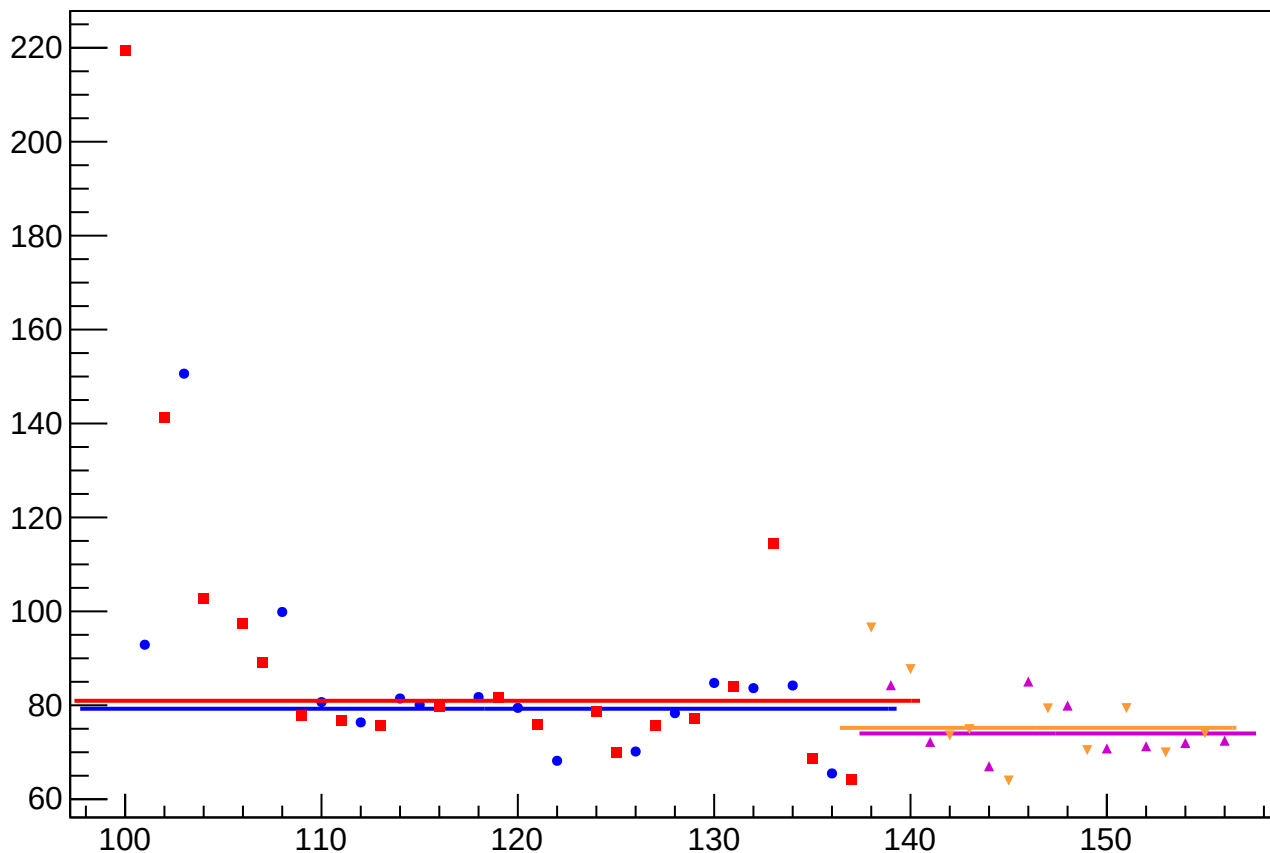
Right: 30.513+/-21.585 χ^2/NDF : 48.2/34

In: 43.010+/-20.084 χ^2/NDF : 35.4/24

Out: 59.314+/-20.407 χ^2/NDF : 32.5/28

All: 51.032+/-14.314 χ^2/NDF : 68.2/53

dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263+/-0.021 χ^2/NDF : 444951.1/15

Left Out: 75.199+/-0.019 χ^2/NDF :180100.8/9

Right Out: 80.958+/-0.022 χ^2/NDF : 514182.4/18

Left In: 73.996+/-0.019 χ^2/NDF :90152.9/8

Left: 74.586+/-0.014 χ^2/NDF : 272229.8/18

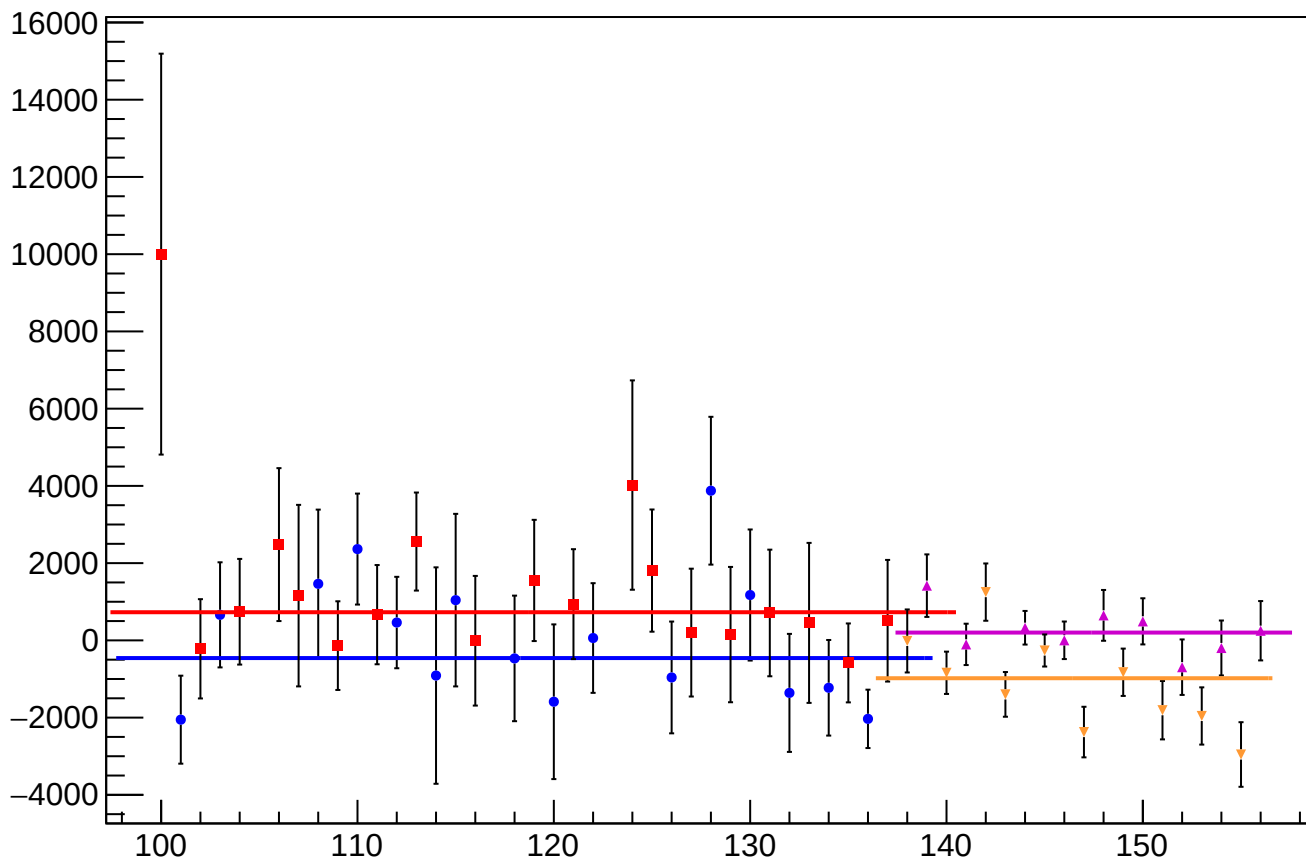
Right: 80.101+/-0.015 χ^2/NDF : 962217.4/34

In: 76.303+/-0.014 χ^2/NDF :568964.5/24

Out: 77.742+/-0.014 χ^2/NDF :733572.6/28

All: 77.011+/-0.010 χ^2/NDF : 1307591.7/53

asym_sam_12345678_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -458.108+/-350.075 χ^2/NDF : 20.3/15

Left Out: -980.168+/-198.271 χ^2/NDF : 27.1/9

Right Out: 728.750+/-352.574 χ^2/NDF : 11.5/18

Left In: 201.880+/-199.032 χ^2/NDF : 5.4/8

Left: -391.409+/-140.467 χ^2/NDF : 50.2/18

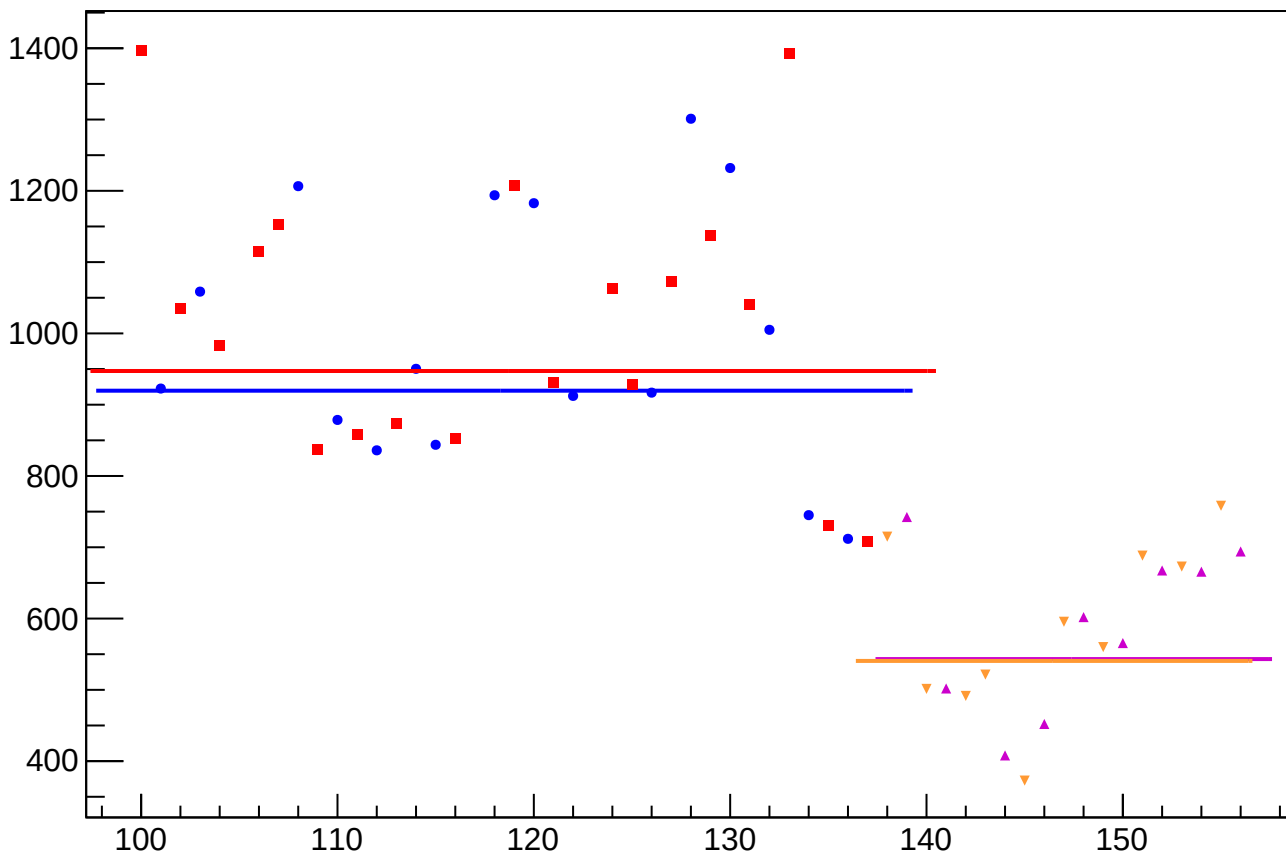
Right: 131.100+/-248.419 χ^2/NDF : 37.5/34

In: 40.659+/-173.023 χ^2/NDF : 28.4/24

Out: -569.582+/-172.819 χ^2/NDF : 56.5/28

All: -264.822+/-122.274 χ^2/NDF : 91.1/53

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.638 $\pm$ 0.248 χ^2 /NDF: 515443.8/15

Left Out: 540.577 $\pm$ 0.140 χ^2 /NDF: 731457.3/9

Right Out: 947.272 $\pm$ 0.249 χ^2 /NDF: 425563.8/18

Left In: 543.174 $\pm$ 0.141 χ^2 /NDF: 611219.7/8

Left: 541.871 $\pm$ 0.099 χ^2 /NDF: 1342848.1/18

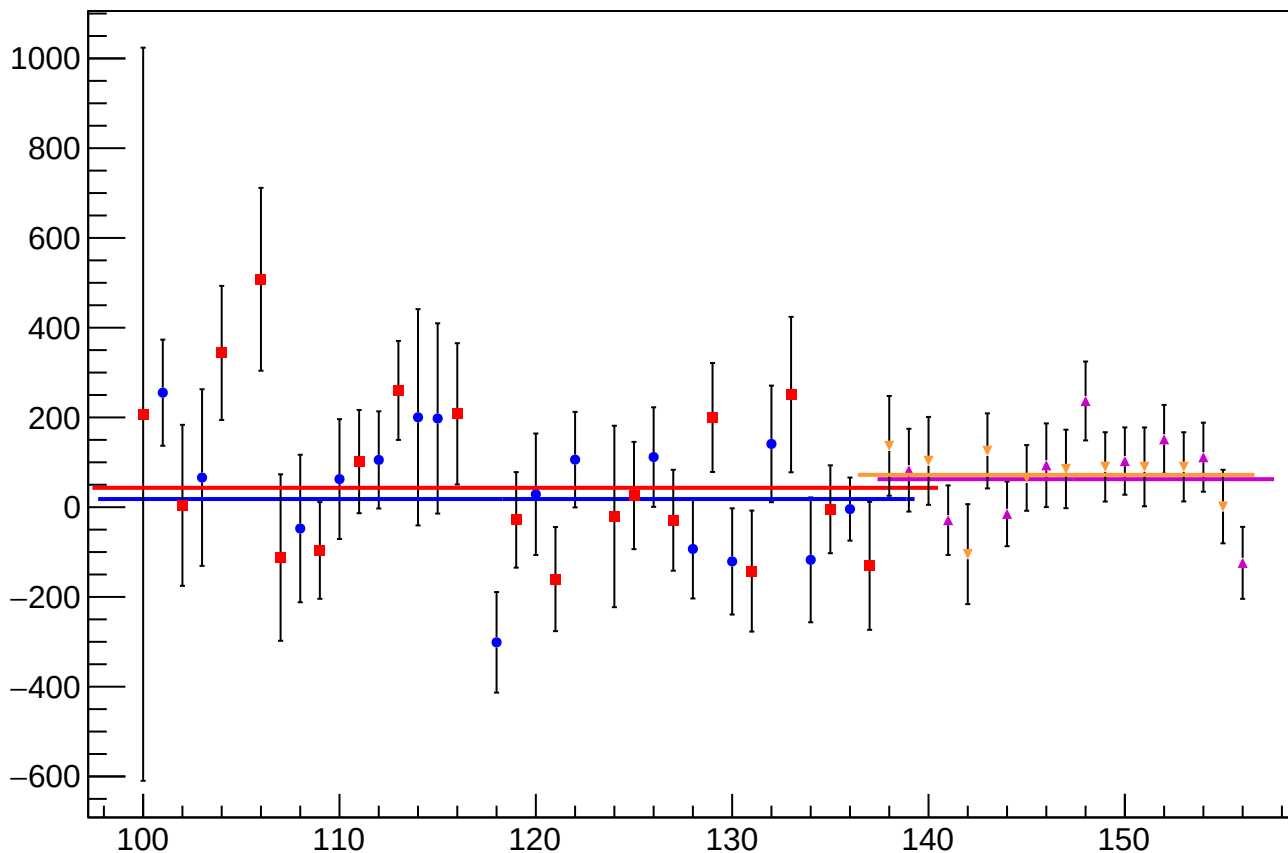
Right: 933.357 $\pm$ 0.176 χ^2 /NDF: 947194.3/34

In: 635.137 $\pm$ 0.122 χ^2 /NDF: 2874562.4/24

Out: 638.290 $\pm$ 0.122 χ^2 /NDF: 3178796.1/28

All: 636.715 $\pm$ 0.086 χ^2 /NDF: 6053691.0/53

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: 72.104+/-27.310 χ^2/NDF : 4.3/9

Right Out: 43.144+/-30.707 χ^2/NDF : 27.7/18

Left In: 62.365+/-26.790 χ^2/NDF : 14.1/8

Left: 67.141+/-19.125 χ^2/NDF : 18.4/18

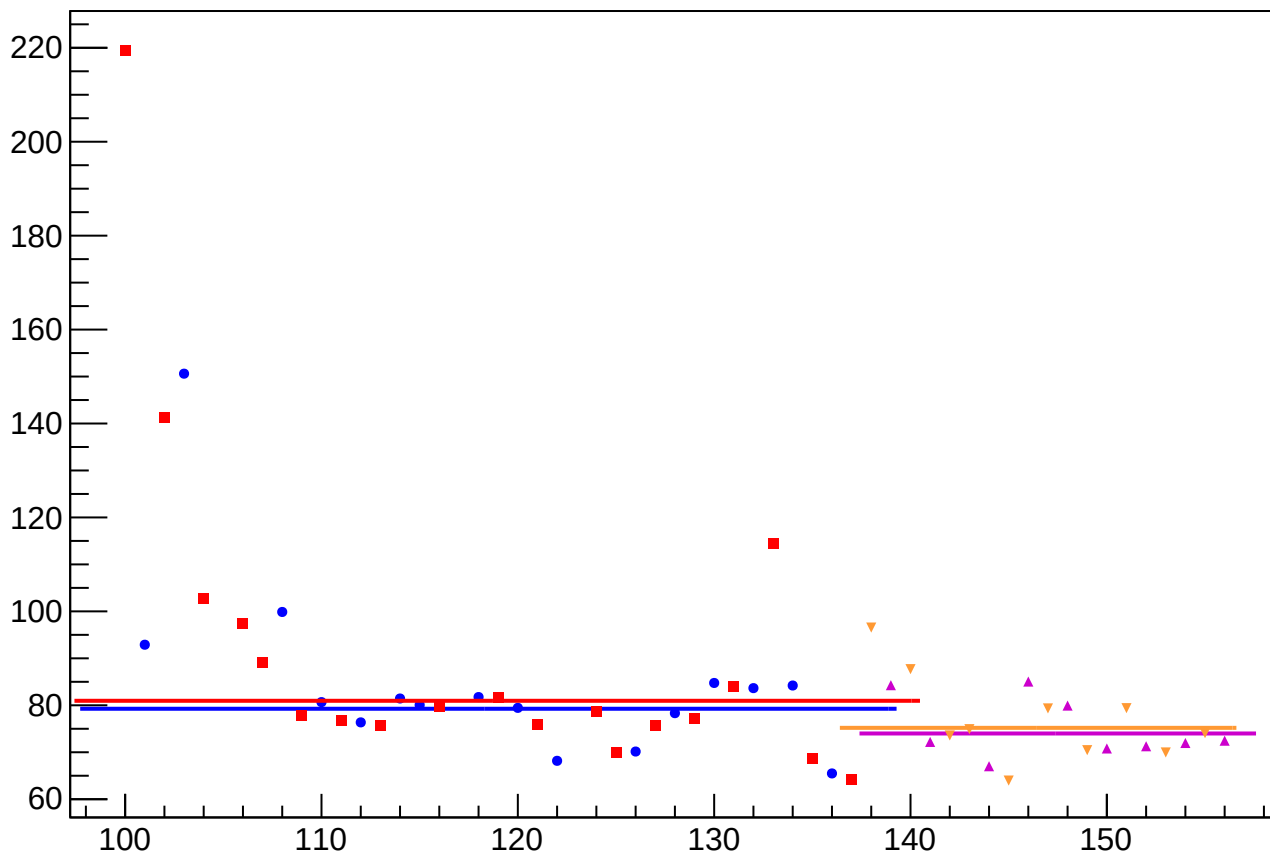
Right: 30.512+/-21.584 χ^2/NDF : 48.2/34

In: 43.010+/-20.084 χ^2/NDF : 35.4/24

Out: 59.313+/-20.407 χ^2/NDF : 32.5/28

All: 51.031+/-14.314 χ^2/NDF : 68.2/53

eigen_dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263 $\pm$ 0.021 χ^2 /NDF: 444948.4/15

Left Out: 75.199 $\pm$ 0.019 χ^2 /NDF:180093.4/9

Right Out: 80.958 $\pm$ 0.022 χ^2 /NDF: 514191.2/18

Left In: 73.996 $\pm$ 0.019 χ^2 /NDF:90150.9/8

Left: 74.586 $\pm$ 0.014 χ^2 /NDF: 272220.4/18

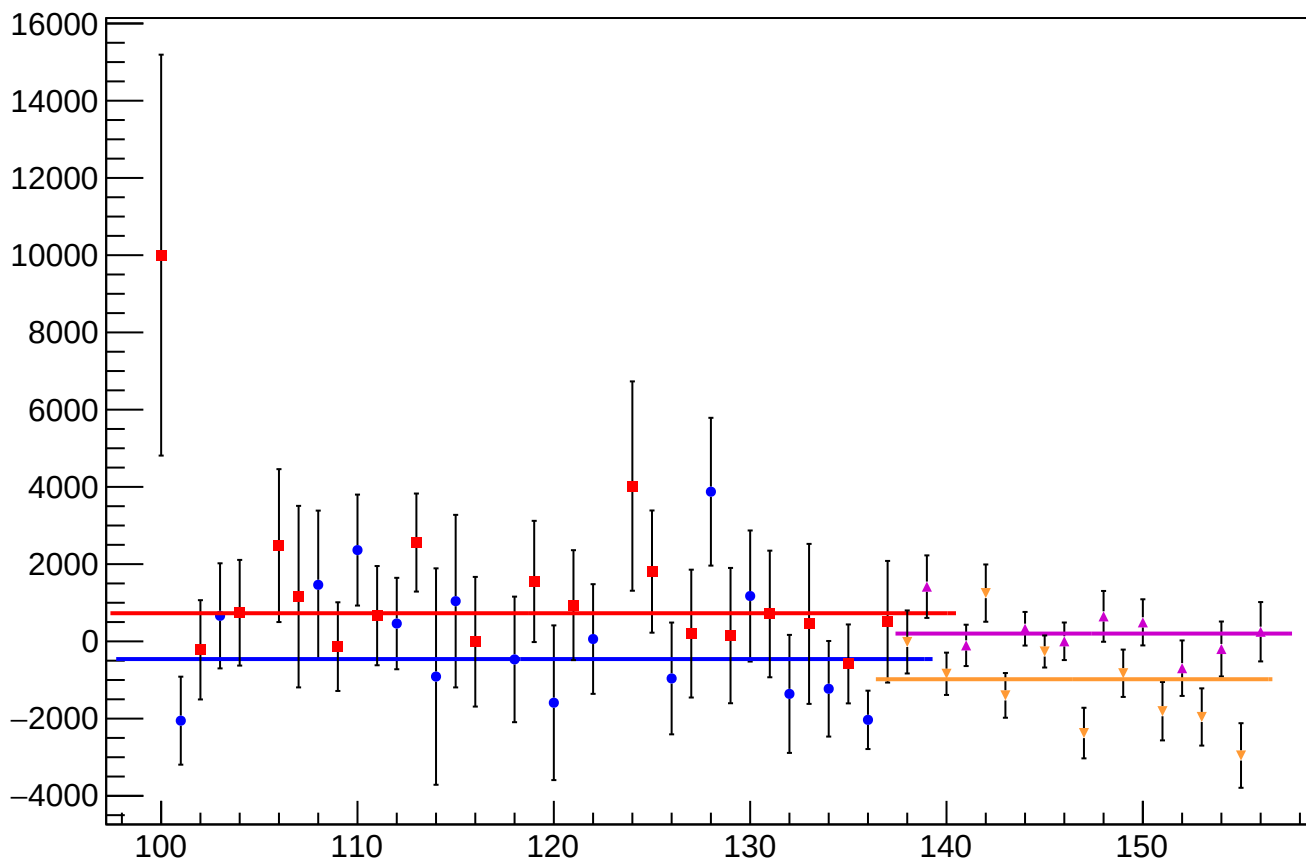
Right: 80.100 $\pm$ 0.015 χ^2 /NDF: 962223.7/34

In: 76.303 $\pm$ 0.014 χ^2 /NDF:568951.9/24

Out: 77.743 $\pm$ 0.014 χ^2 /NDF:733565.5/28

All: 77.011 $\pm$ 0.010 χ^2 /NDF: 1307572.3/53

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: -980.167 $\pm$ 198.271 χ^2 /NDF:27.1/9

Right Out: 728.749 $\pm$ 352.573 χ^2 /NDF: 11.5/18

Left In: 201.879 $\pm$ 199.032 χ^2 /NDF:5.4/8

Left: -391.409 $\pm$ 140.467 χ^2 /NDF: 50.2/18

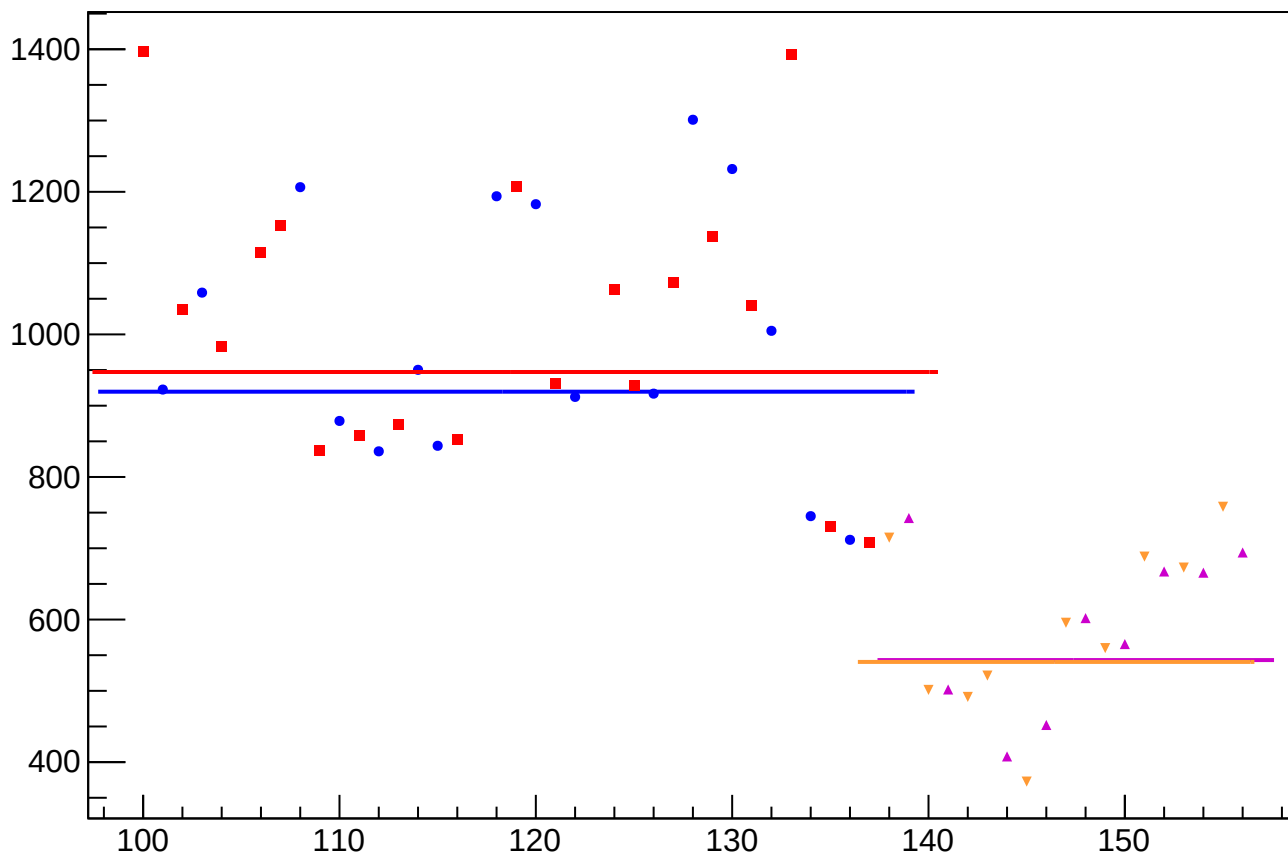
Right: 131.102 $\pm$ 248.419 χ^2 /NDF: 37.5/34

In: 40.659 $\pm$ 173.023 χ^2 /NDF:28.4/24

Out: -569.582 $\pm$ 172.819 χ^2 /NDF:56.5/28

All: -264.822 $\pm$ 122.273 χ^2 /NDF: 91.1/53

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.636+/-0.248 χ^2/NDF : 515443.9/15

Left Out: 540.576+/-0.140 χ^2/NDF : 731461.3/9

Right Out: 947.270+/-0.249 χ^2/NDF : 425565.2/18

Left In: 543.174+/-0.141 χ^2/NDF : 611219.4/8

Left: 541.870+/-0.099 χ^2/NDF : 1342851.7/18

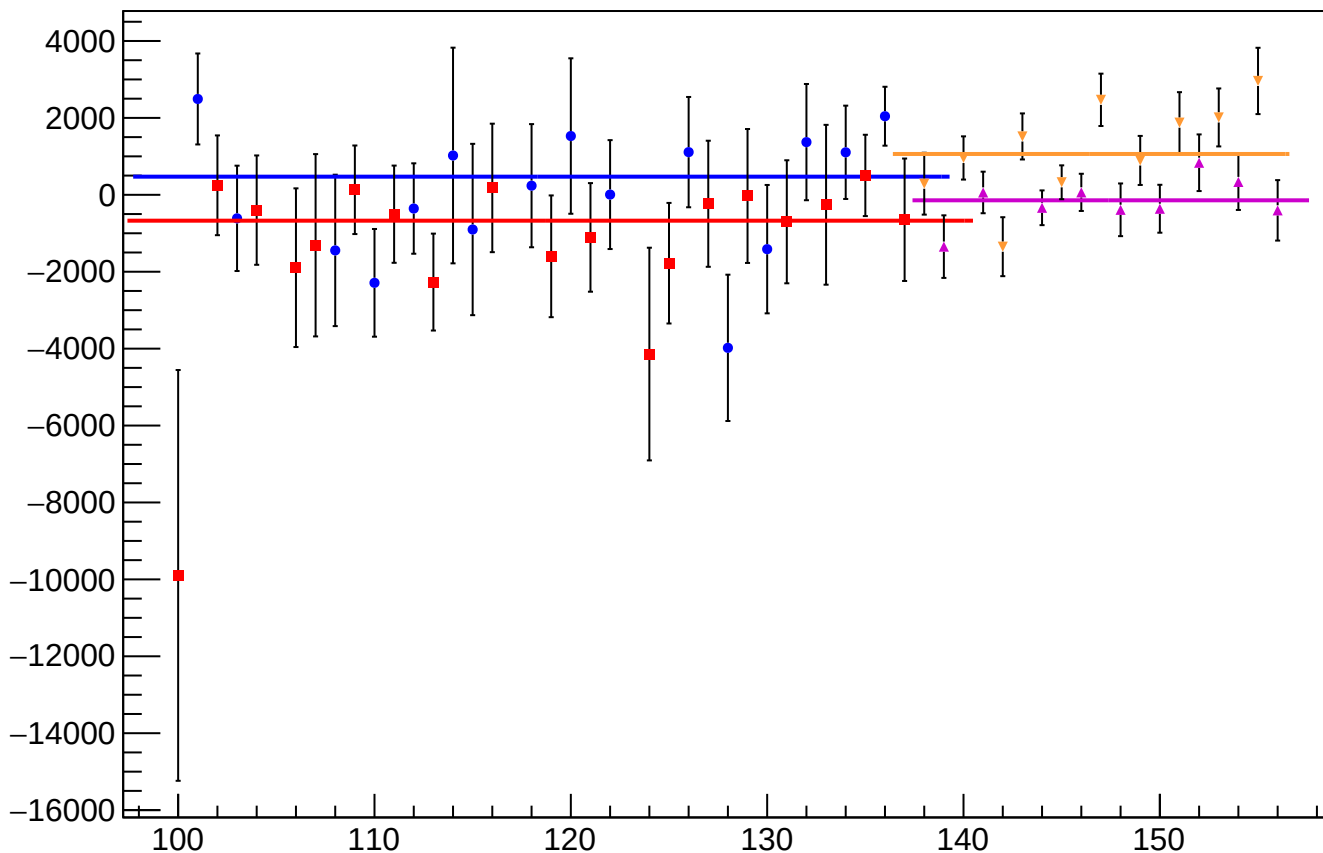
Right: 933.355+/-0.176 χ^2/NDF : 947195.7/34

In: 635.136+/-0.122 χ^2/NDF : 2874555.4/24

Out: 638.289+/-0.122 χ^2/NDF : 3178796.8/28

All: 636.714+/-0.086 χ^2/NDF : 6053684.7/53

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 472.014 $\pm$ 350.376 χ^2 /NDF: 21.5/15

Left Out: 1061.973 $\pm$ 205.507 χ^2 /NDF:26.1/9

Right Out: -672.537 $\pm$ 354.512 χ^2 /NDF: 10.3/18

Left In: -142.899 $\pm$ 203.400 χ^2 /NDF:5.3/8

Left: 453.329 $\pm$ 144.564 χ^2 /NDF: 48.7/18

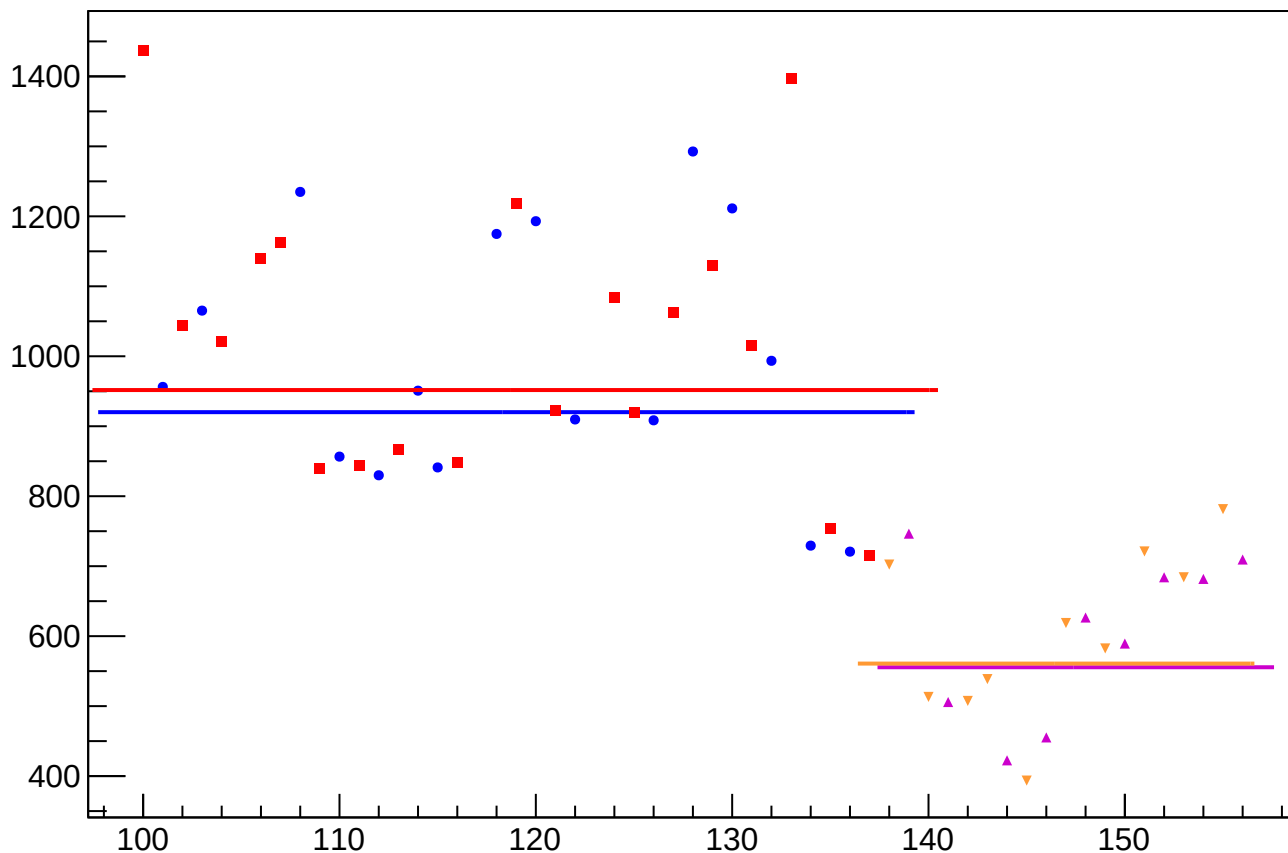
Right: -93.545 $\pm$ 249.203 χ^2 /NDF: 37.1/34

In: 12.095 $\pm$ 175.907 χ^2 /NDF:29.0/24

Out: 625.712 $\pm$ 177.794 χ^2 /NDF:54.3/28

All: 315.631 $\pm$ 125.047 χ^2 /NDF: 89.4/53

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 920.125+/-0.248 χ^2/NDF : 508678.6/15

Left Out: 560.797+/-0.145 χ^2/NDF : 660473.0/9

Right Out: 951.726+/-0.251 χ^2/NDF : 416116.3/18

Left In: 555.557+/-0.144 χ^2/NDF : 611839.7/8

Left: 558.150+/-0.102 χ^2/NDF : 1272969.5/18

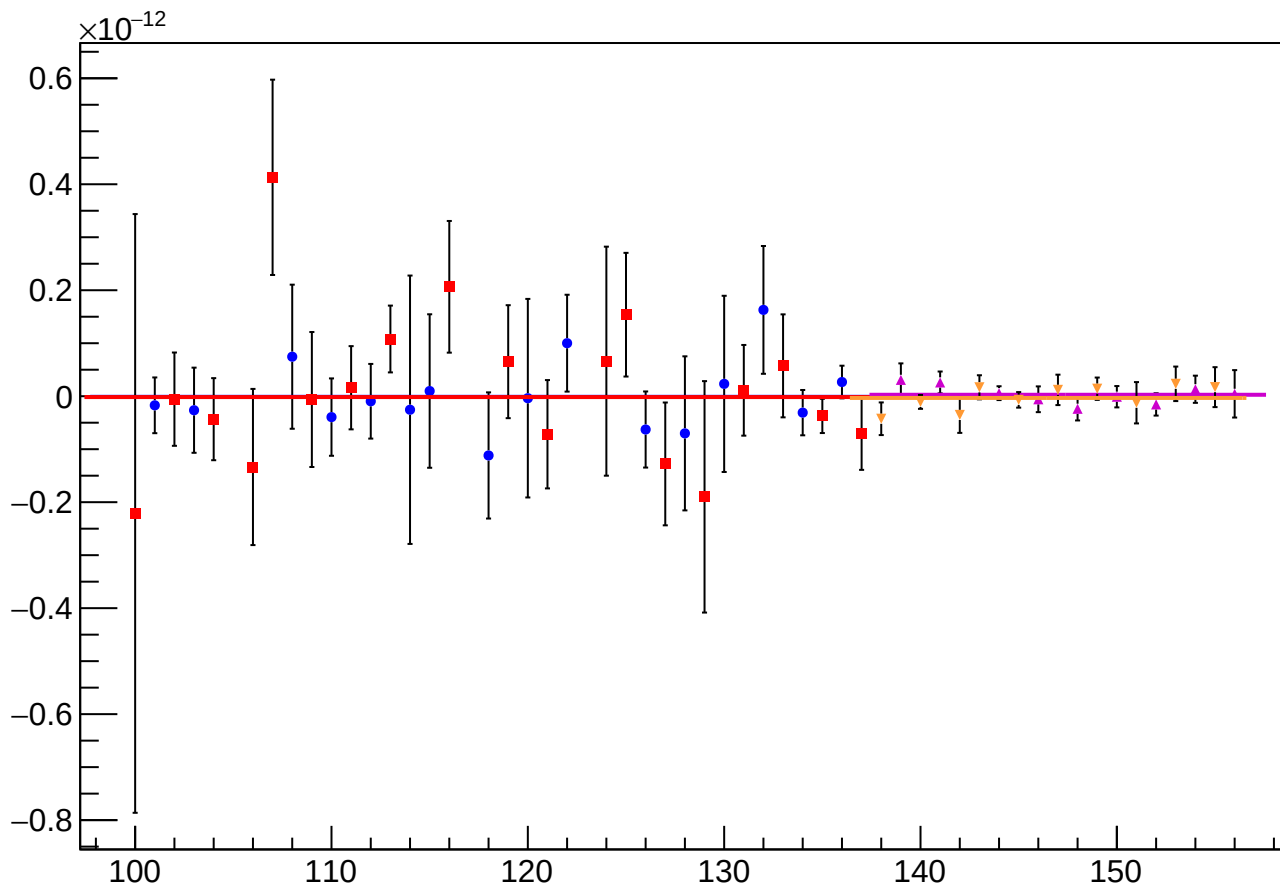
Right: 935.740+/-0.176 χ^2/NDF : 932834.0/34

In: 647.450+/-0.124 χ^2/NDF : 2740040.9/24

Out: 659.123+/-0.126 χ^2/NDF : 2896895.3/28

All: 653.224+/-0.088 χ^2/NDF : 5641293.1/53

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 : 5.7/9

Right Out: -0.000+/-0.000 χ^2/NDF : 19.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 4.7/8

Left: -0.000+/-0.000 χ^2/NDF : 10.7/18

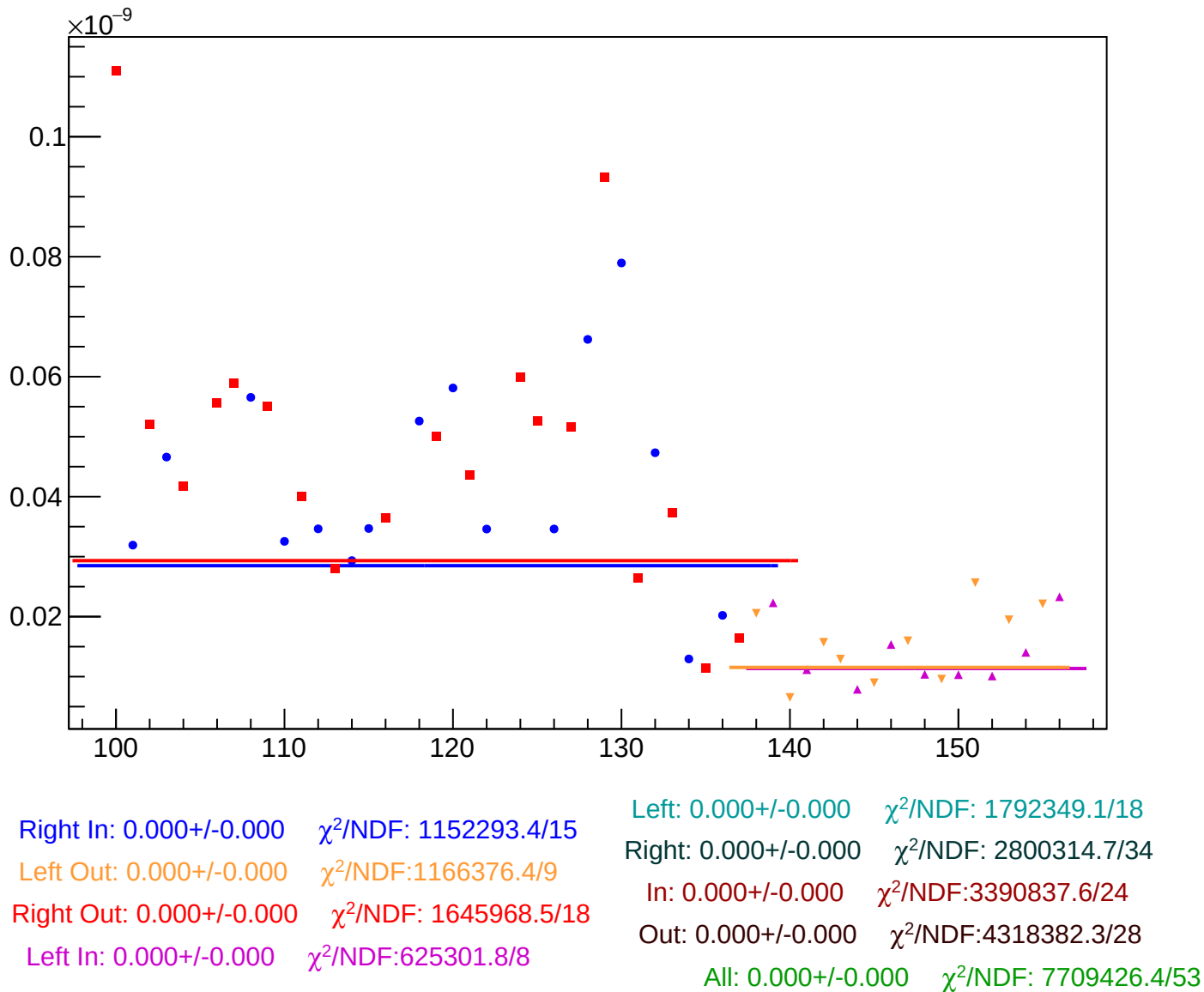
Right: -0.000+/-0.000 χ^2/NDF : 26.5/34

In: 0.000+/-0.000 χ^2/NDF : 11.7/24

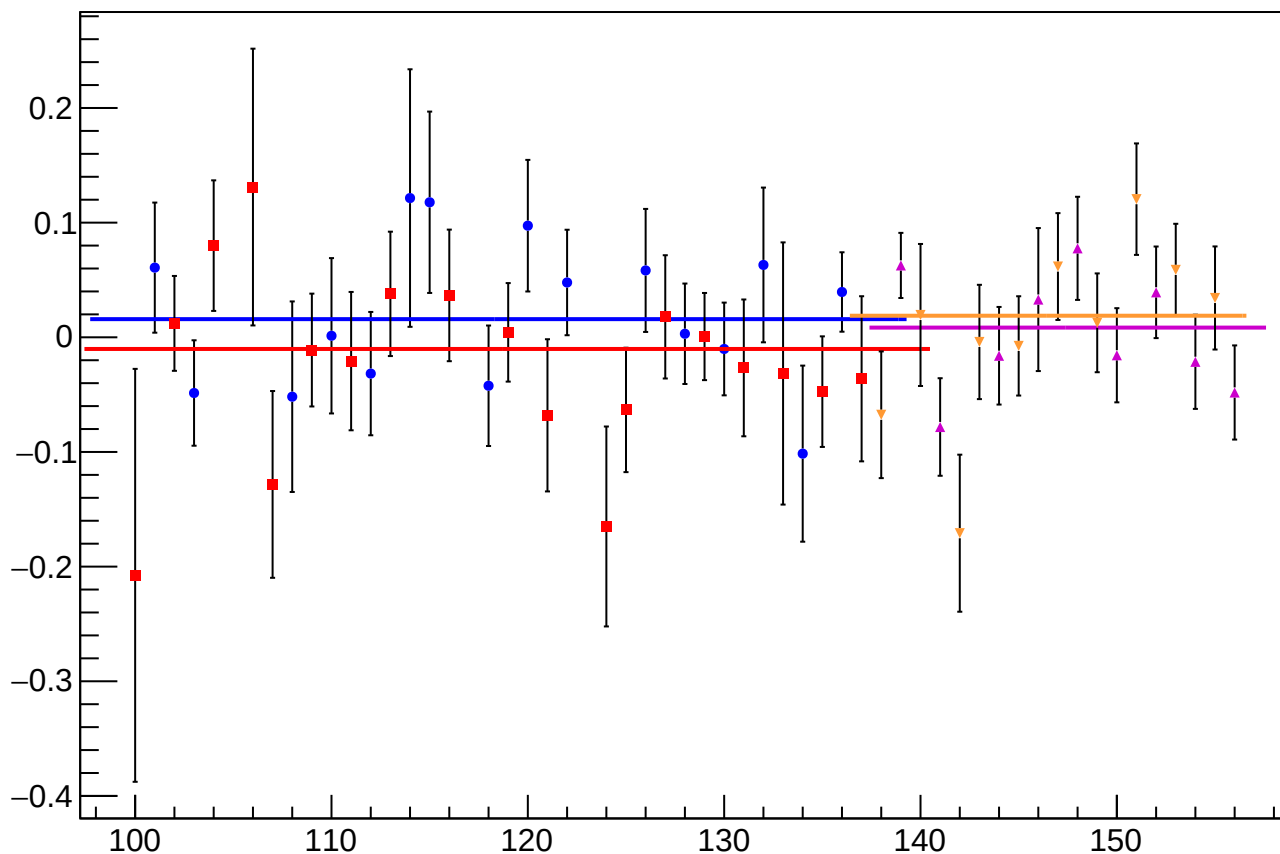
Out: -0.000+/-0.000 χ^2/NDF : 25.1/28

All: -0.000+/-0.000 χ^2/NDF : 37.1/53

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



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: 0.019 $\pm$ 0.015 χ^2 /NDF:17.0/9

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.008 $\pm$ 0.013 χ^2 /NDF:14.0/8

Left: 0.013 $\pm$ 0.010 χ^2 /NDF: 31.3/18

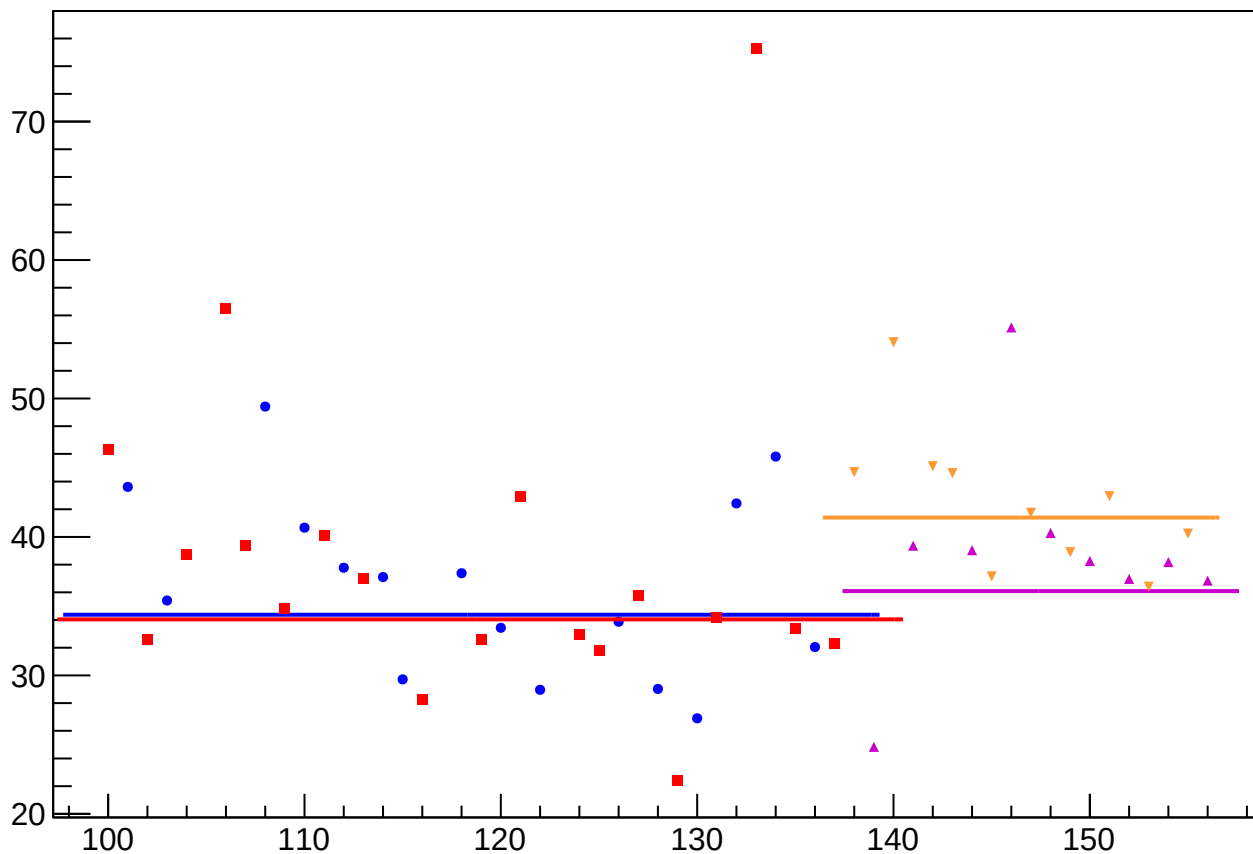
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.012 $\pm$ 0.010 χ^2 /NDF:28.9/24

Out: 0.002 $\pm$ 0.010 χ^2 /NDF:34.2/28

All: 0.007 $\pm$ 0.007 χ^2 /NDF: 63.7/53

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382 $\pm$ 0.009 χ^2 /NDF: 367883.0/15

Left Out: 41.400 $\pm$ 0.011 χ^2 /NDF:165038.7/9

Right Out: 34.047 $\pm$ 0.009 χ^2 /NDF: 642697.3/18

Left In: 36.089 $\pm$ 0.010 χ^2 /NDF:551638.0/8

Left: 38.411 $\pm$ 0.007 χ^2 /NDF: 852330.0/18

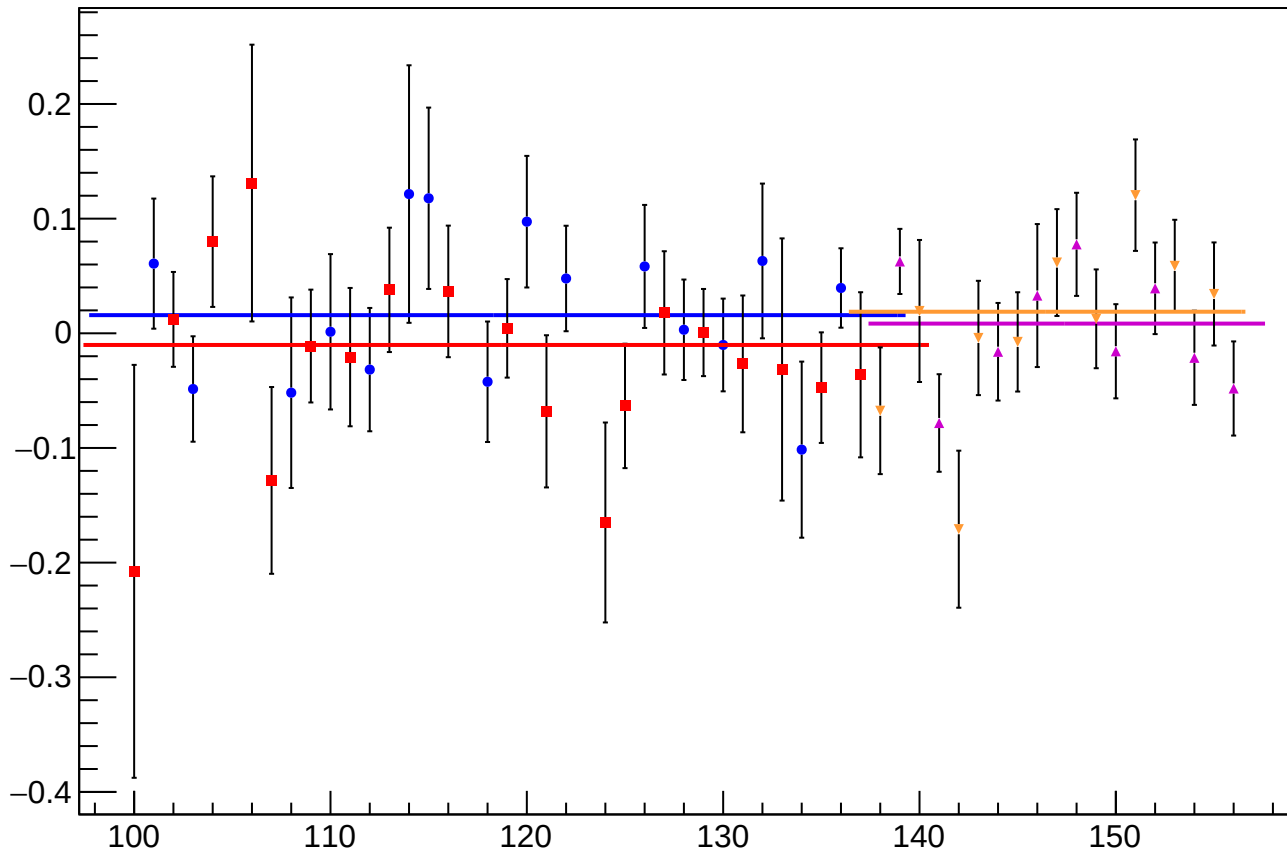
Right: 34.212 $\pm$ 0.007 χ^2 /NDF: 1011212.4/34

In: 35.230 $\pm$ 0.007 χ^2 /NDF:935665.2/24

Out: 37.187 $\pm$ 0.007 χ^2 /NDF:1072440.1/28

All: 36.159 $\pm$ 0.005 χ^2 /NDF: 2048379.7/53

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: 0.019 $\pm$ 0.015 χ^2 /NDF:17.0/9

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.008 $\pm$ 0.013 χ^2 /NDF:14.0/8

Left: 0.013 $\pm$ 0.010 χ^2 /NDF: 31.3/18

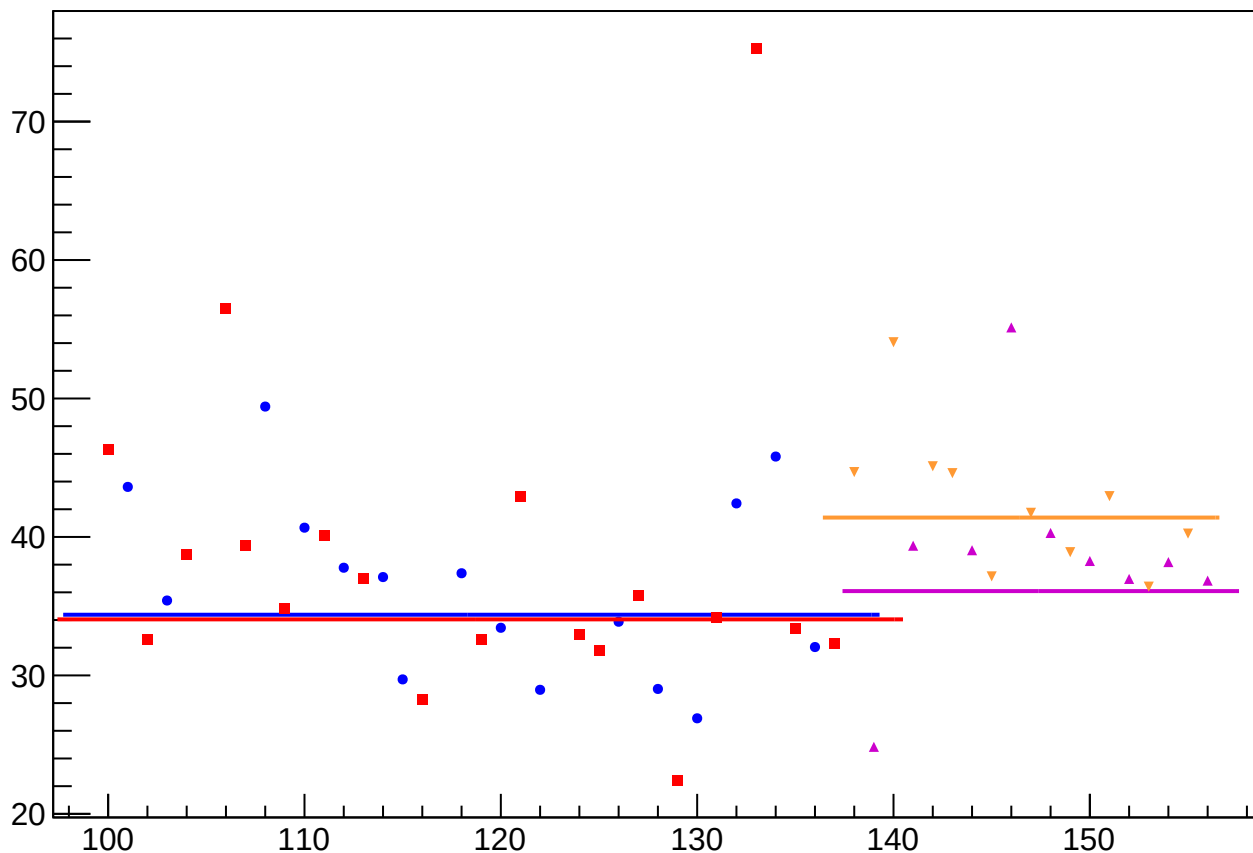
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.012 $\pm$ 0.010 χ^2 /NDF:28.9/24

Out: 0.002 $\pm$ 0.010 χ^2 /NDF:34.2/28

All: 0.007 $\pm$ 0.007 χ^2 /NDF: 63.7/53

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382+/-0.009 χ^2/NDF : 367883.0/15

Left Out: 41.400+/-0.011 χ^2/NDF : 165038.7/9

Right Out: 34.047+/-0.009 χ^2/NDF : 642697.3/18

Left In: 36.089+/-0.010 χ^2/NDF : 551638.0/8

Left: 38.411+/-0.007 χ^2/NDF : 852330.0/18

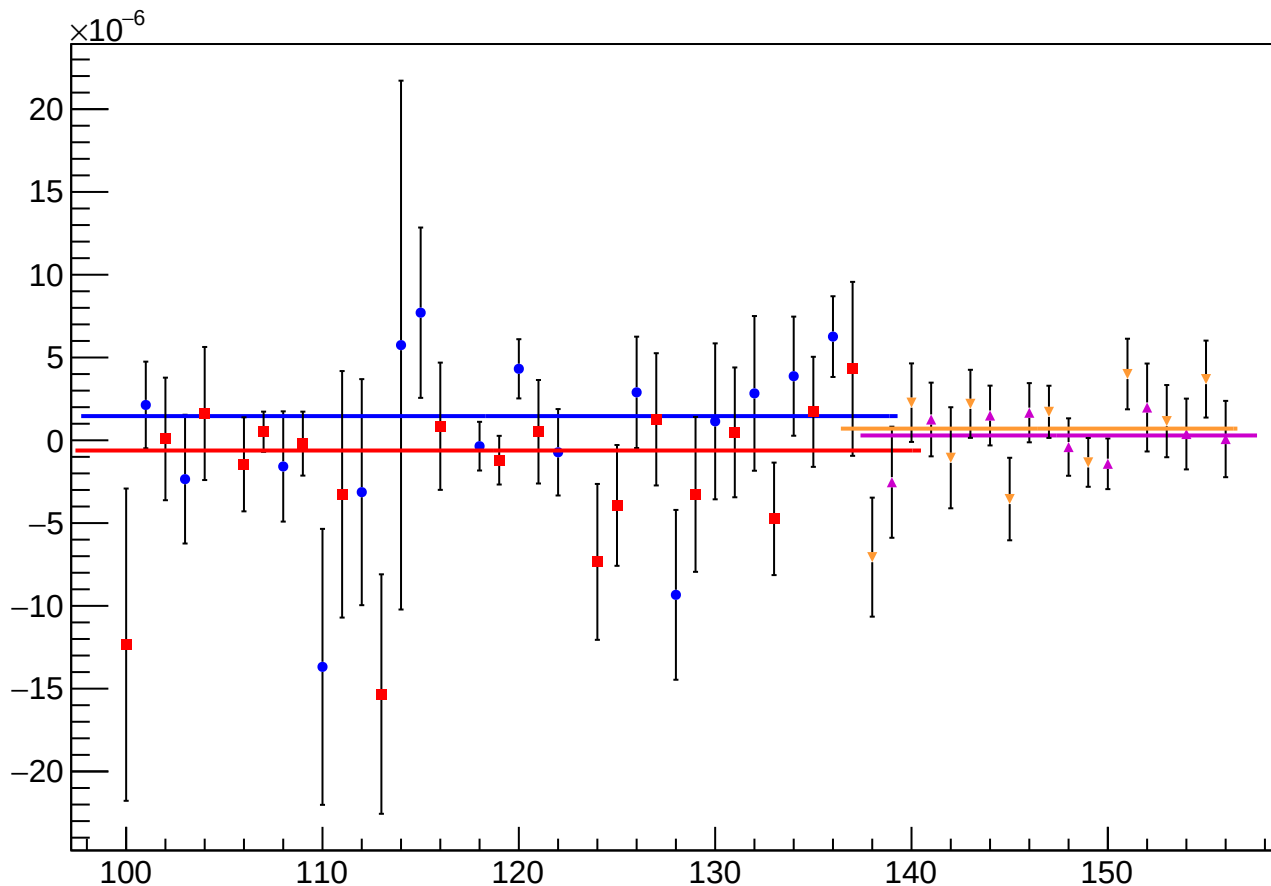
Right: 34.212+/-0.007 χ^2/NDF : 1011212.4/34

In: 35.230+/-0.007 χ^2/NDF : 935665.2/24

Out: 37.187+/-0.007 χ^2/NDF : 1072440.1/28

All: 36.159+/-0.005 χ^2/NDF : 2048379.7/53

asym_sam_12345678_avg_eigen_dit_vs_dit_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 : 15.3/9

Right Out: -0.000+/-0.000 χ^2/NDF : 13.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 3.8/8

Left: 0.000+/-0.000 χ^2/NDF : 19.2/18

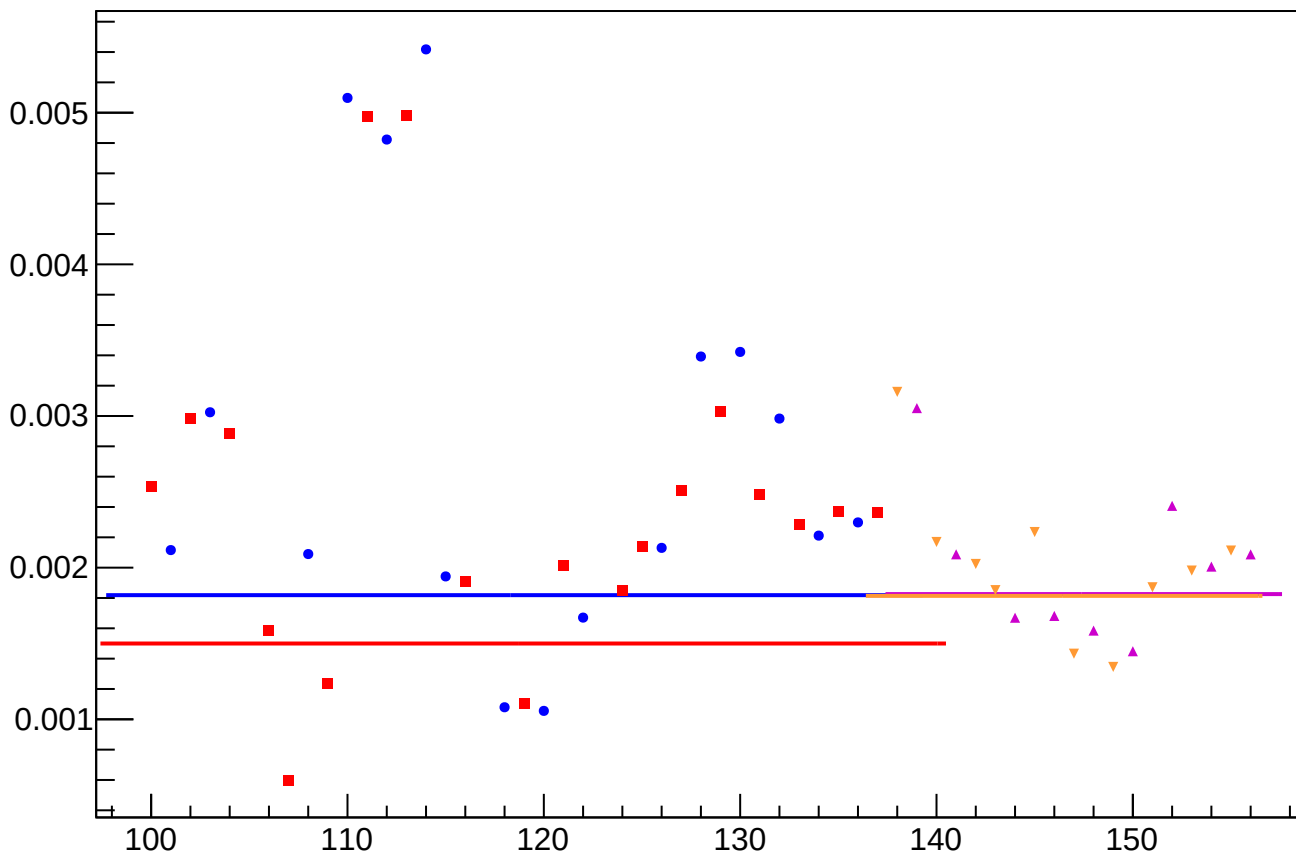
Right: 0.000+/-0.000 χ^2/NDF : 39.3/34

In: 0.000+/-0.000 χ^2/NDF : 26.1/24

Out: 0.000+/-0.000 χ^2/NDF : 31.3/28

All: 0.000+/-0.000 χ^2/NDF : 58.7/53

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2570250.6/15

Left Out: 0.002+/-0.000 χ^2/NDF : 757863.2/9

Right Out: 0.001+/-0.000 χ^2/NDF : 3689451.2/18

Left In: 0.002+/-0.000 χ^2/NDF : 618721.3/8

Left: 0.002+/-0.000 χ^2/NDF : 1376886.8/18

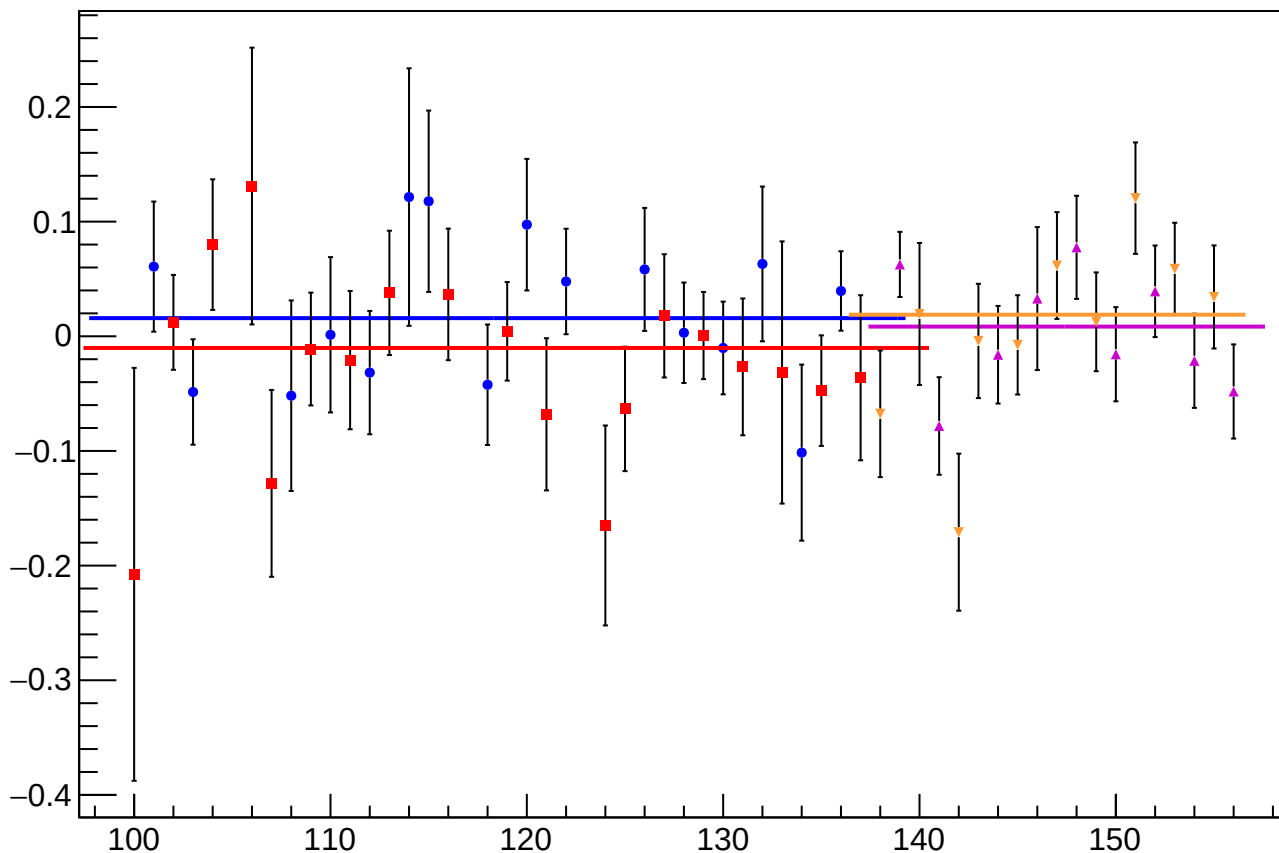
Right: 0.002+/-0.000 χ^2/NDF : 6466308.5/34

In: 0.002+/-0.000 χ^2/NDF : 3189068.2/24

Out: 0.002+/-0.000 χ^2/NDF : 4675798.6/28

All: 0.002+/-0.000 χ^2/NDF : 7989975.7/53

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: 0.019 $\pm$ 0.015 χ^2 /NDF:17.0/9

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.008 $\pm$ 0.013 χ^2 /NDF:14.0/8

Left: 0.013 $\pm$ 0.010 χ^2 /NDF: 31.3/18

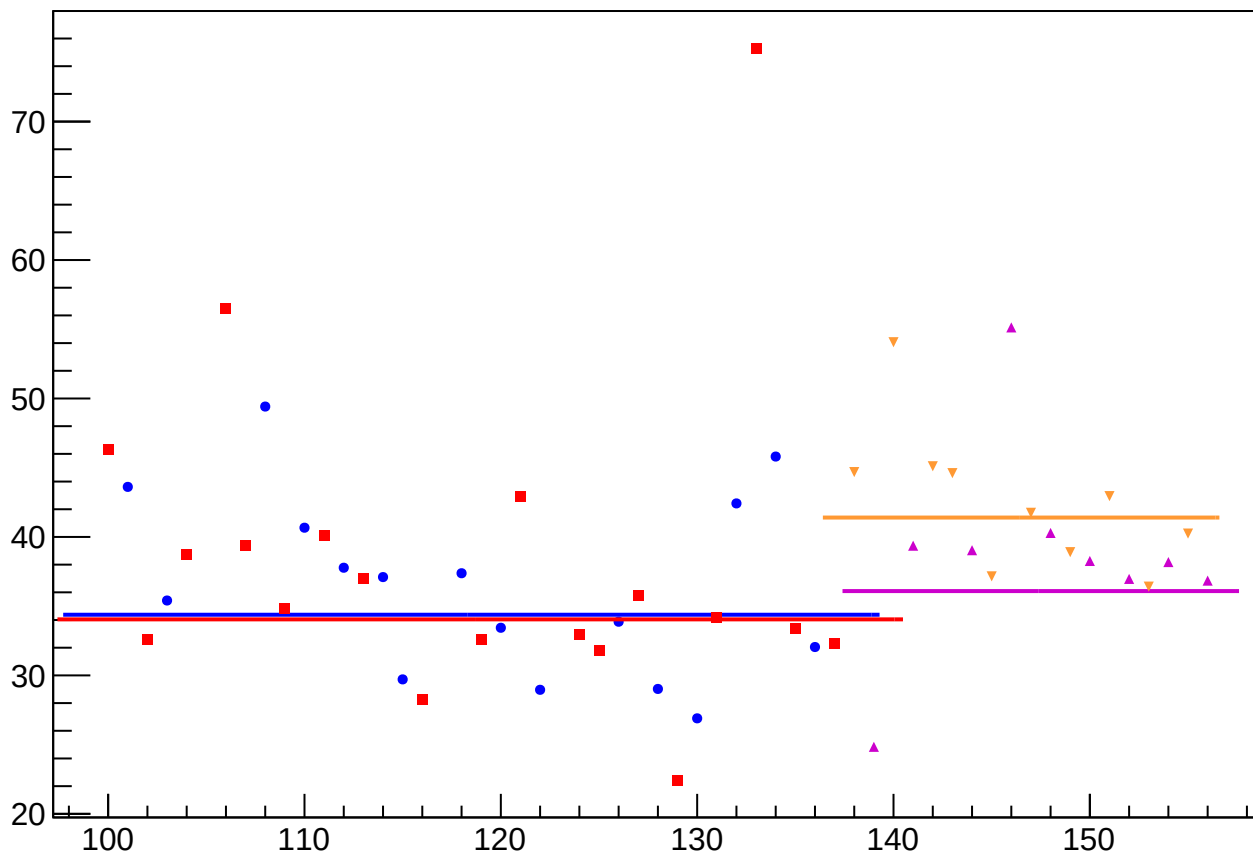
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.012 $\pm$ 0.010 χ^2 /NDF:28.9/24

Out: 0.002 $\pm$ 0.010 χ^2 /NDF:34.2/28

All: 0.007 $\pm$ 0.007 χ^2 /NDF: 63.7/53

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: 41.401+/-0.011 χ^2/NDF :165027.3/9

Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18

Left In: 36.090+/-0.010 χ^2/NDF :551653.1/8

Left: 38.412+/-0.007 χ^2/NDF : 852336.6/18

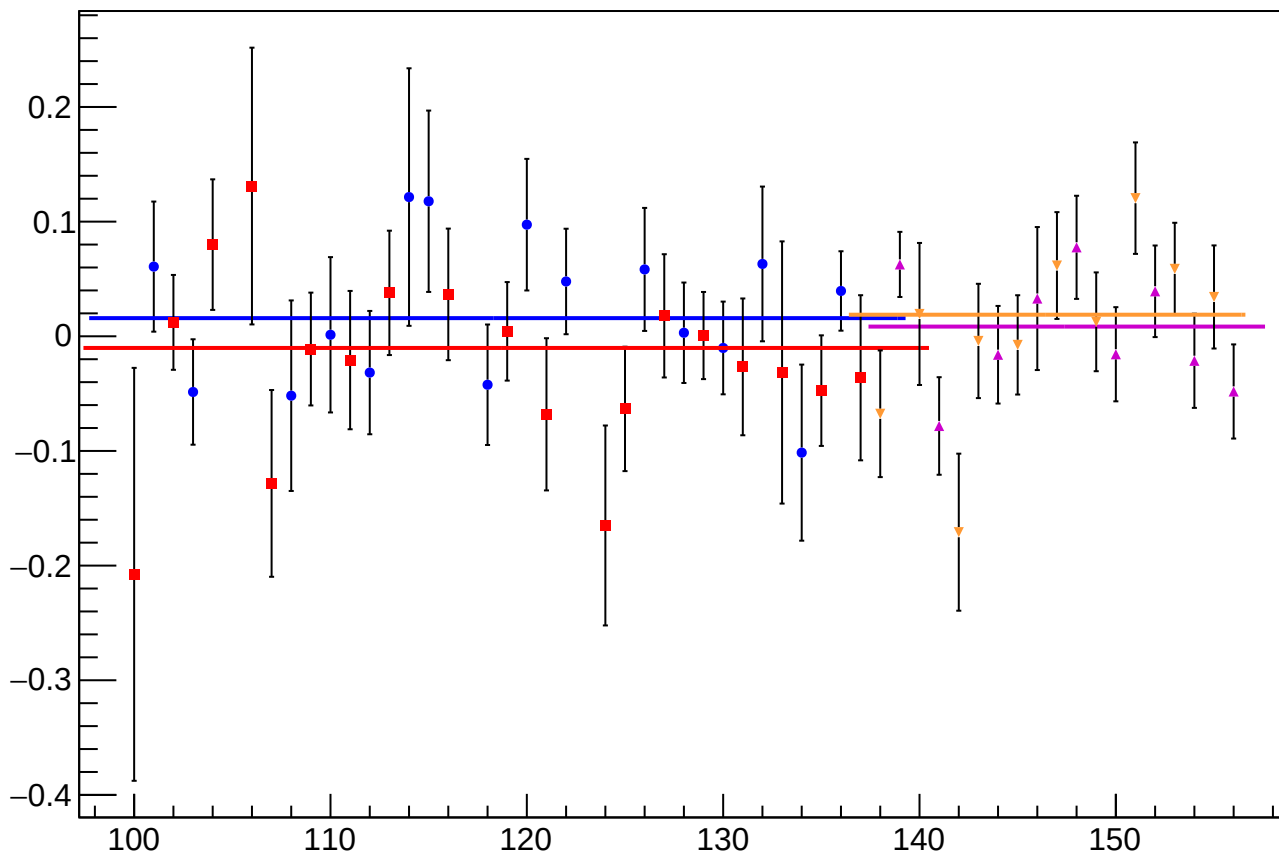
Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34

In: 35.230+/-0.007 χ^2/NDF :935761.2/24

Out: 37.187+/-0.007 χ^2/NDF :1072554.6/28

All: 36.159+/-0.005 χ^2/NDF : 2048591.6/53

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: 0.019 $\pm$ 0.015 χ^2 /NDF:17.0/9

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.008 $\pm$ 0.013 χ^2 /NDF:14.0/8

Left: 0.013 $\pm$ 0.010 χ^2 /NDF: 31.3/18

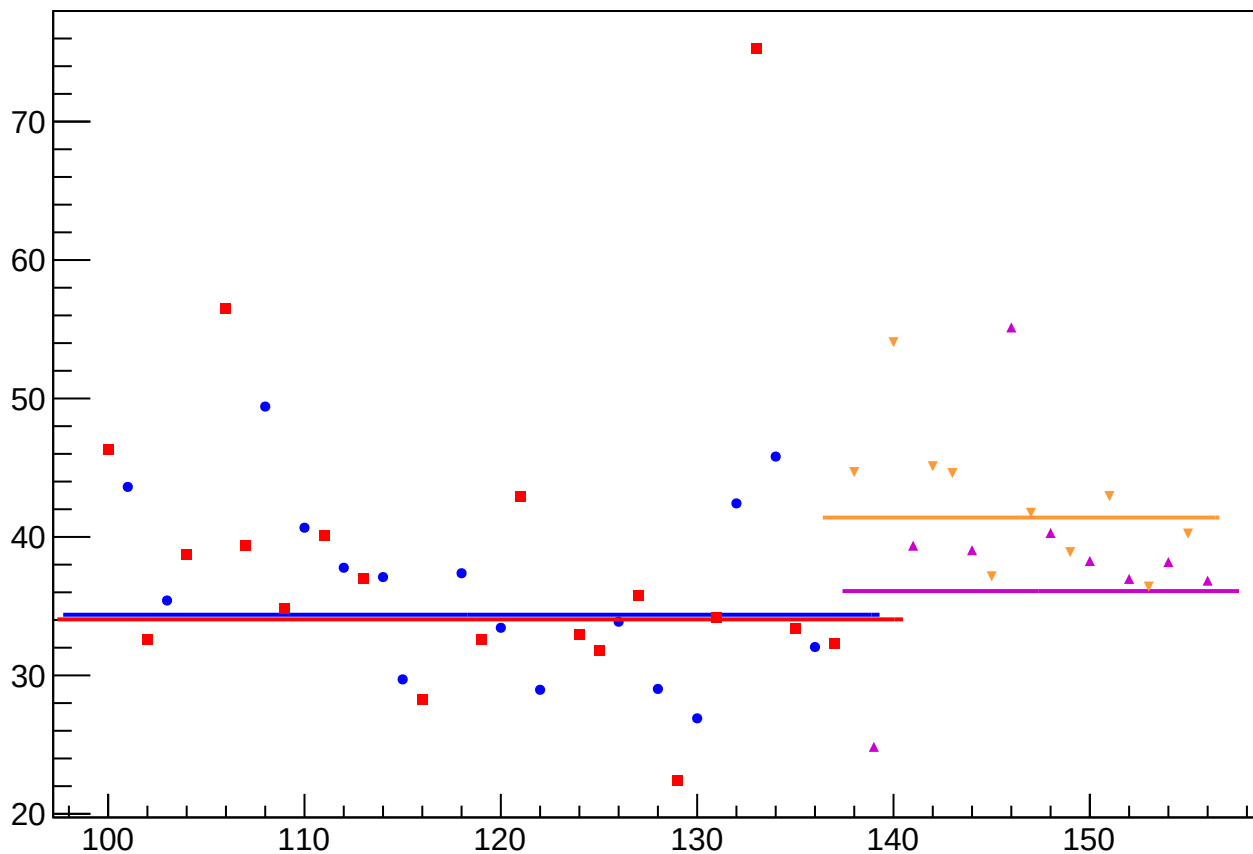
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.012 $\pm$ 0.010 χ^2 /NDF:28.9/24

Out: 0.002 $\pm$ 0.010 χ^2 /NDF:34.2/28

All: 0.007 $\pm$ 0.007 χ^2 /NDF: 63.7/53

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: 41.401+/-0.011 χ^2/NDF :165027.3/9

Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18

Left In: 36.090+/-0.010 χ^2/NDF :551653.1/8

Left: 38.412+/-0.007 χ^2/NDF : 852336.6/18

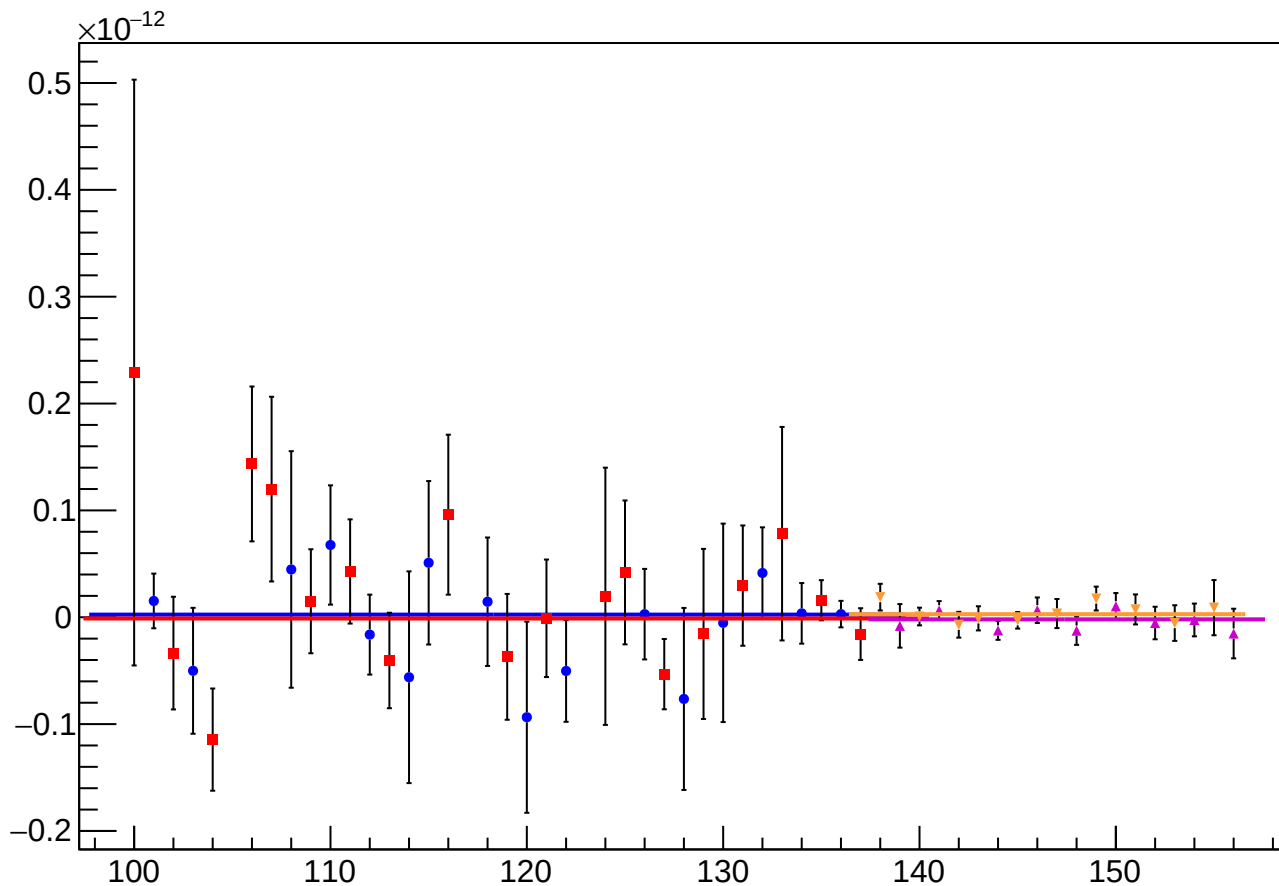
Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34

In: 35.230+/-0.007 χ^2/NDF :935761.2/24

Out: 37.187+/-0.007 χ^2/NDF :1072554.6/28

All: 36.159+/-0.005 χ^2/NDF : 2048591.6/53

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5.2/9

Right Out: -0.000+/-0.000 χ^2/NDF : 21.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 4.9/8

Left: 0.000+/-0.000 χ^2/NDF : 10.9/18

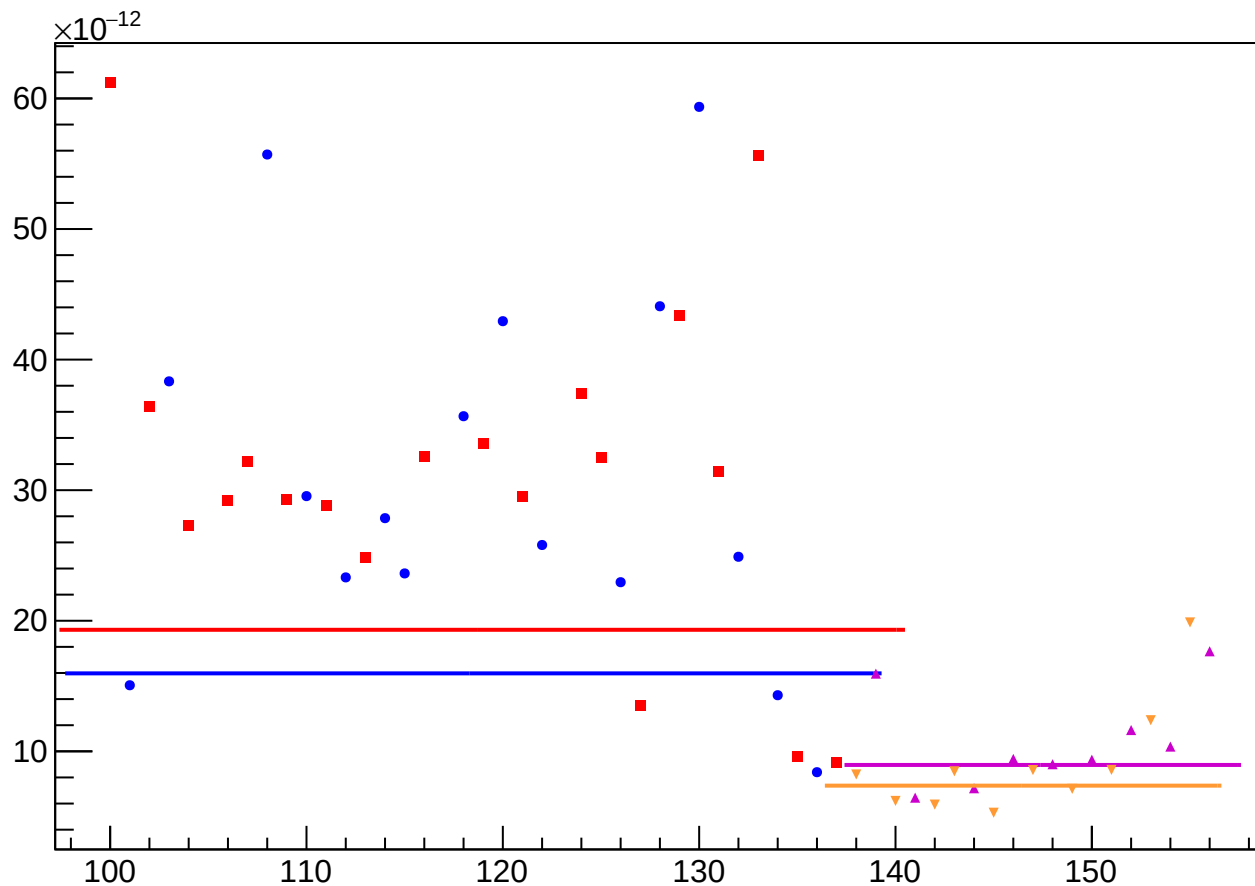
Right: 0.000+/-0.000 χ^2/NDF : 29.3/34

In: -0.000+/-0.000 χ^2/NDF : 12.8/24

Out: 0.000+/-0.000 χ^2/NDF : 26.8/28

All: 0.000+/-0.000 χ^2/NDF : 40.1/53

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 : 920184.6/9

Right Out: 0.000+/-0.000 χ^2/NDF : 2440768.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 851104.7/8

Left: 0.000+/-0.000 χ^2/NDF : 1936910.3/18

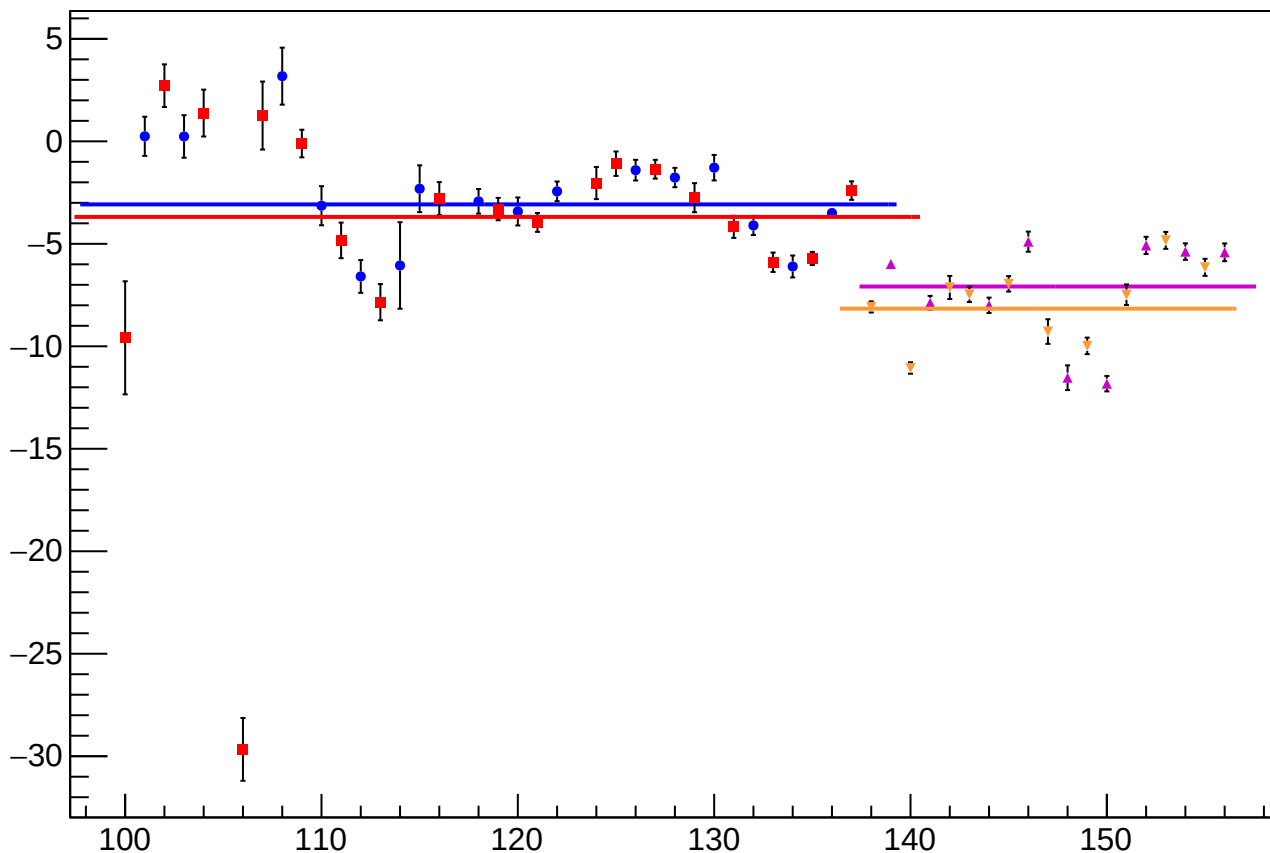
Right: 0.000+/-0.000 χ^2/NDF : 5386653.4/34

In: 0.000+/-0.000 χ^2/NDF : 4729274.7/24

Out: 0.000+/-0.000 χ^2/NDF : 5789939.9/28

All: 0.000+/-0.000 χ^2/NDF : 10702512.9/53

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.077 ± 0.135 χ^2/NDF : 133.8/15

Left Out: -8.164 ± 0.121 χ^2/NDF : 240.2/9

Right Out: -3.687 ± 0.140 χ^2/NDF : 534.8/18

Left In: -7.083 ± 0.125 χ^2/NDF : 320.8/8

Left: -7.640 ± 0.087 χ^2/NDF : 599.7/18

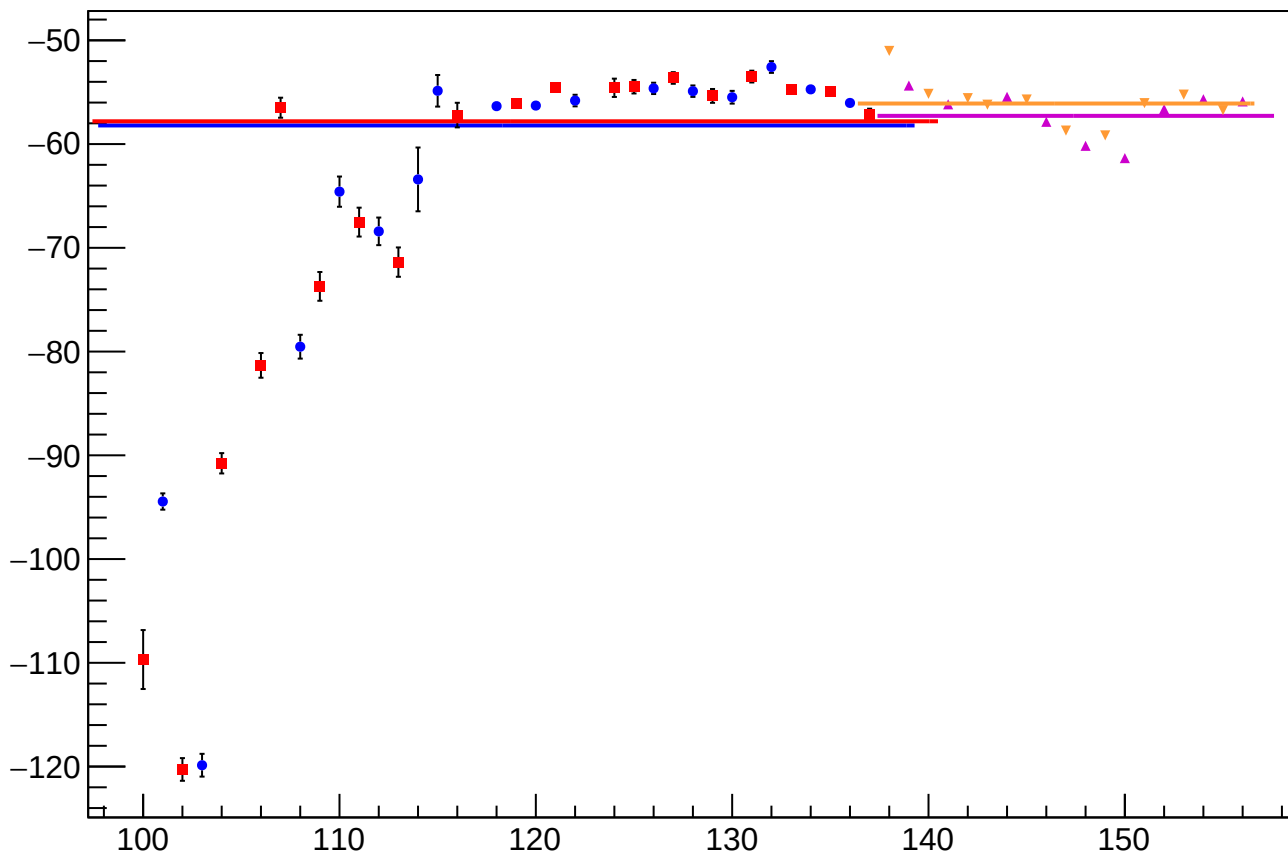
Right: -3.371 ± 0.097 χ^2/NDF : 678.4/34

In: -5.241 ± 0.092 χ^2/NDF : 928.8/24

Out: -6.254 ± 0.092 χ^2/NDF : 1359.8/28

All: -5.749 ± 0.065 χ^2/NDF : 2349.7/53

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: -56.091 ± 0.090 $\chi^2/\text{NDF}: 521.6/9$

Right Out: -57.804 ± 0.138 $\chi^2/\text{NDF}: 5792.7/18$

Left In: -57.279 ± 0.096 $\chi^2/\text{NDF}: 525.9/8$

Left: -56.650 ± 0.066 $\chi^2/\text{NDF}: 1129.1/18$

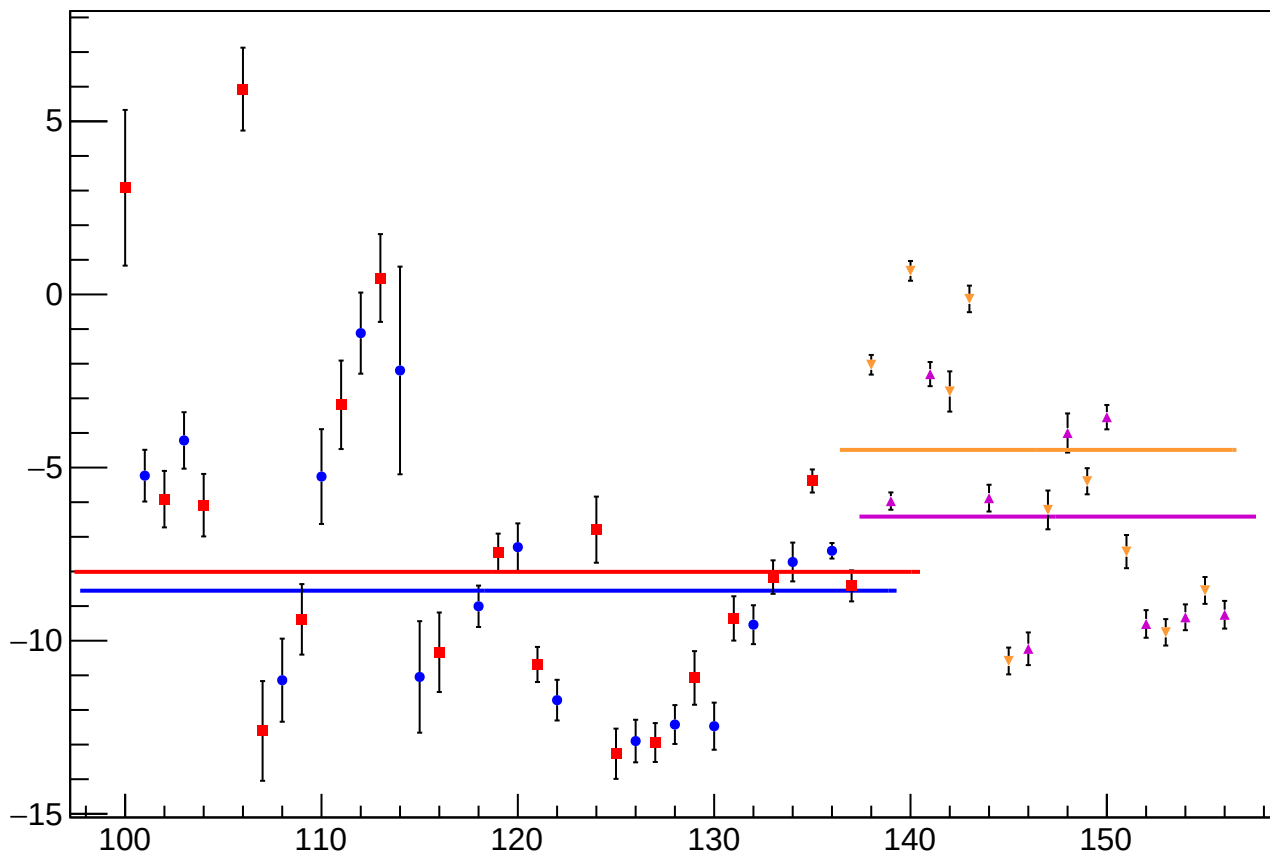
Right: -58.008 ± 0.097 $\chi^2/\text{NDF}: 11923.9/34$

In: -57.587 ± 0.078 $\chi^2/\text{NDF}: 6683.9/24$

Out: -56.601 ± 0.076 $\chi^2/\text{NDF}: 6421.7/28$

All: -57.077 ± 0.054 $\chi^2/\text{NDF}: 13187.9/53$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -8.555 ± 0.145 χ^2/NDF : 300.7/15

Left Out: -4.489 ± 0.120 χ^2/NDF : 1141.7/9

Right Out: -8.011 ± 0.153 χ^2/NDF : 489.3/18

Left In: -6.416 ± 0.123 χ^2/NDF : 466.2/8

Left: -5.432 ± 0.086 χ^2/NDF : 1733.6/18

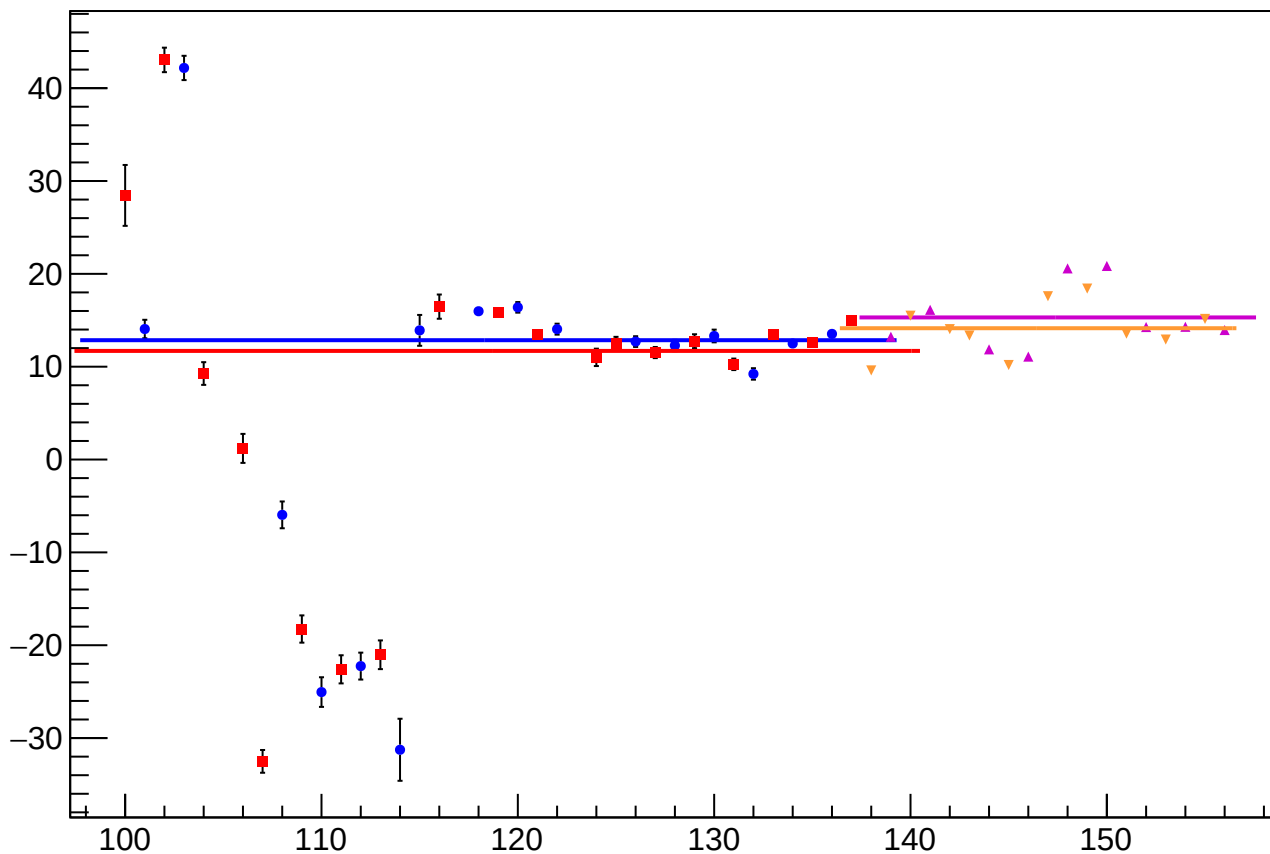
Right: -8.298 ± 0.105 χ^2/NDF : 796.7/34

In: -7.311 ± 0.094 χ^2/NDF : 894.0/24

Out: -5.834 ± 0.095 χ^2/NDF : 1958.9/28

All: -6.580 ± 0.067 χ^2/NDF : 2976.1/53

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.853 $\pm$ 0.150 χ^2 /NDF: 2128.4/15

Left Out: 14.144 $\pm$ 0.107 χ^2 /NDF: 621.1/9

Right Out: 11.699 $\pm$ 0.155 χ^2 /NDF: 3498.8/18

Left In: 15.305 $\pm$ 0.112 χ^2 /NDF: 835.1/8

Left: 14.697 $\pm$ 0.077 χ^2 /NDF: 1512.4/18

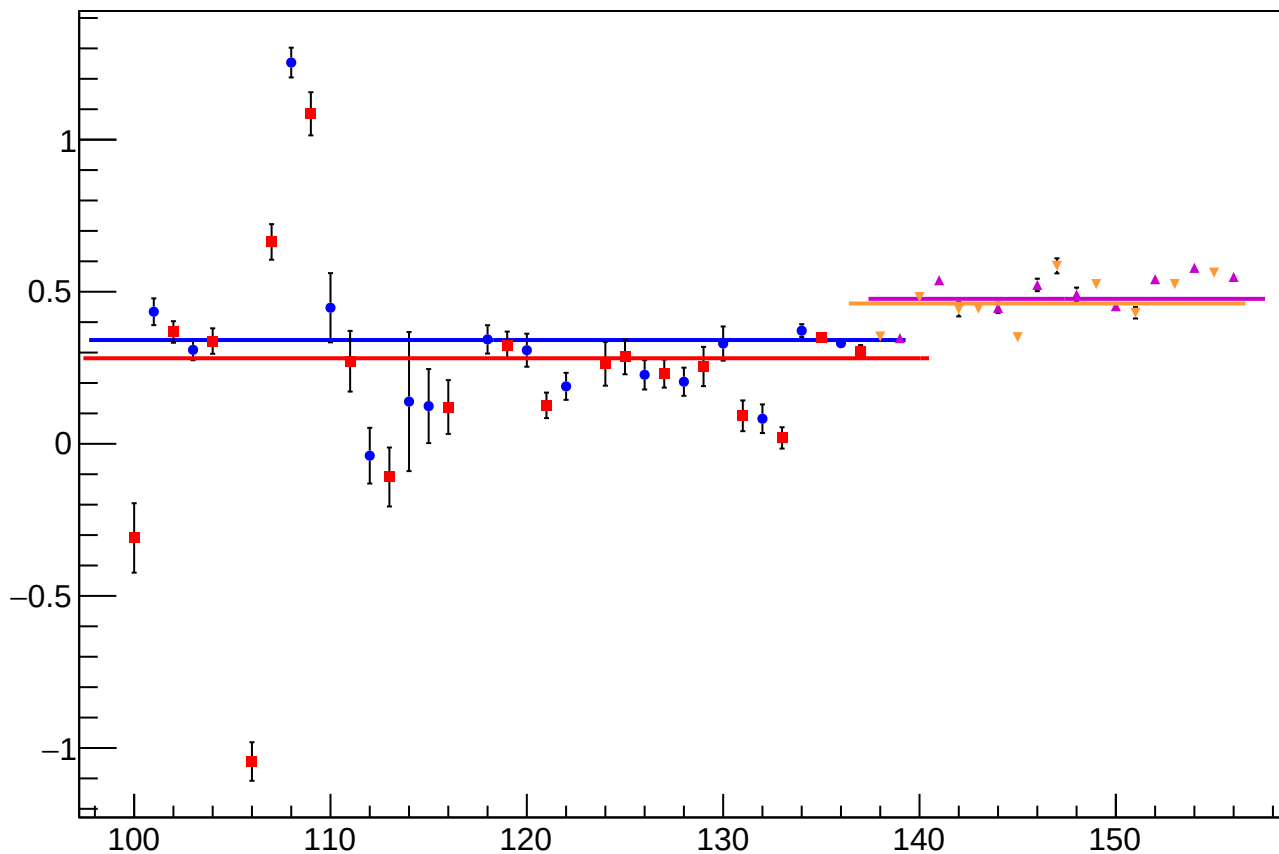
Right: 12.294 $\pm$ 0.108 χ^2 /NDF: 5655.7/34

In: 14.429 $\pm$ 0.090 χ^2 /NDF: 3134.5/24

Out: 13.355 $\pm$ 0.088 χ^2 /NDF: 4288.2/28

All: 13.881 $\pm$ 0.063 χ^2 /NDF: 7495.4/53

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.341 $\pm$ 0.008 χ^2 /NDF: 434.8/15

Left Out: 0.461 $\pm$ 0.005 χ^2 /NDF:283.7/9

Right Out: 0.281 $\pm$ 0.008 χ^2 /NDF: 777.6/18

Left In: 0.477 $\pm$ 0.005 χ^2 /NDF:356.7/8

Left: 0.469 $\pm$ 0.003 χ^2 /NDF: 645.8/18

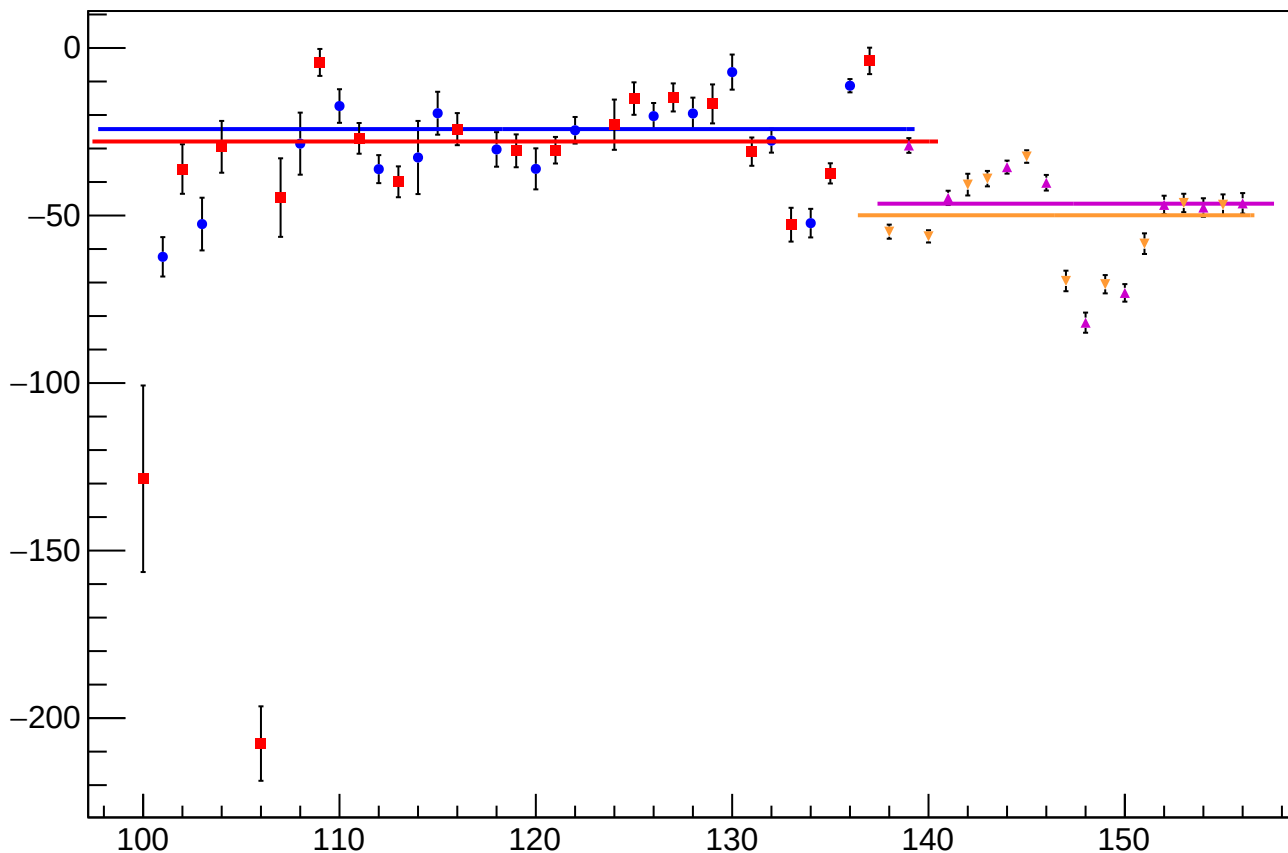
Right: 0.313 $\pm$ 0.006 χ^2 /NDF: 1239.2/34

In: 0.442 $\pm$ 0.004 χ^2 /NDF:1012.2/24

Out: 0.419 $\pm$ 0.004 χ^2 /NDF:1405.9/28

All: 0.431 $\pm$ 0.003 χ^2 /NDF: 2435.2/53

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.205 ± 1.086 χ^2/NDF : 170.7/15

Left Out: -49.925 ± 0.773 χ^2/NDF : 242.9/9

Right Out: -27.906 ± 1.137 χ^2/NDF : 413.4/18

Left In: -46.470 ± 0.816 χ^2/NDF : 344.7/8

Left: -48.290 ± 0.561 χ^2/NDF : 597.1/18

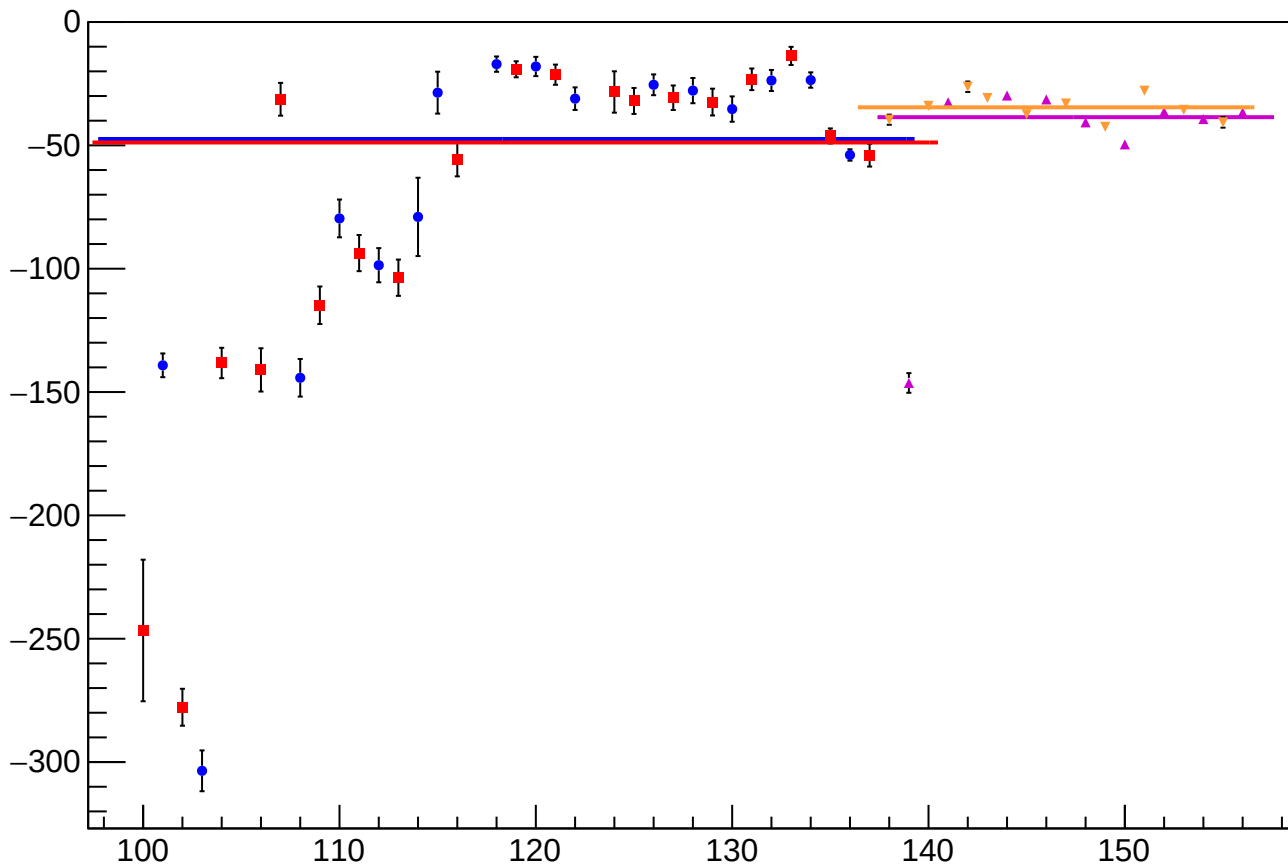
Right: -25.971 ± 0.785 χ^2/NDF : 589.7/34

In: -38.440 ± 0.652 χ^2/NDF : 784.0/24

Out: -42.962 ± 0.639 χ^2/NDF : 912.7/28

All: -40.746 ± 0.457 χ^2/NDF : 1721.2/53

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: -34.579 ± 0.545 $\chi^2/\text{NDF}: 76.4/9$

Right Out: -48.831 ± 1.182 $\chi^2/\text{NDF}: 1774.6/18$

Left In: -38.573 ± 0.566 $\chi^2/\text{NDF}: 854.8/8$

Left: -36.501 ± 0.392 $\chi^2/\text{NDF}: 957.0/18$

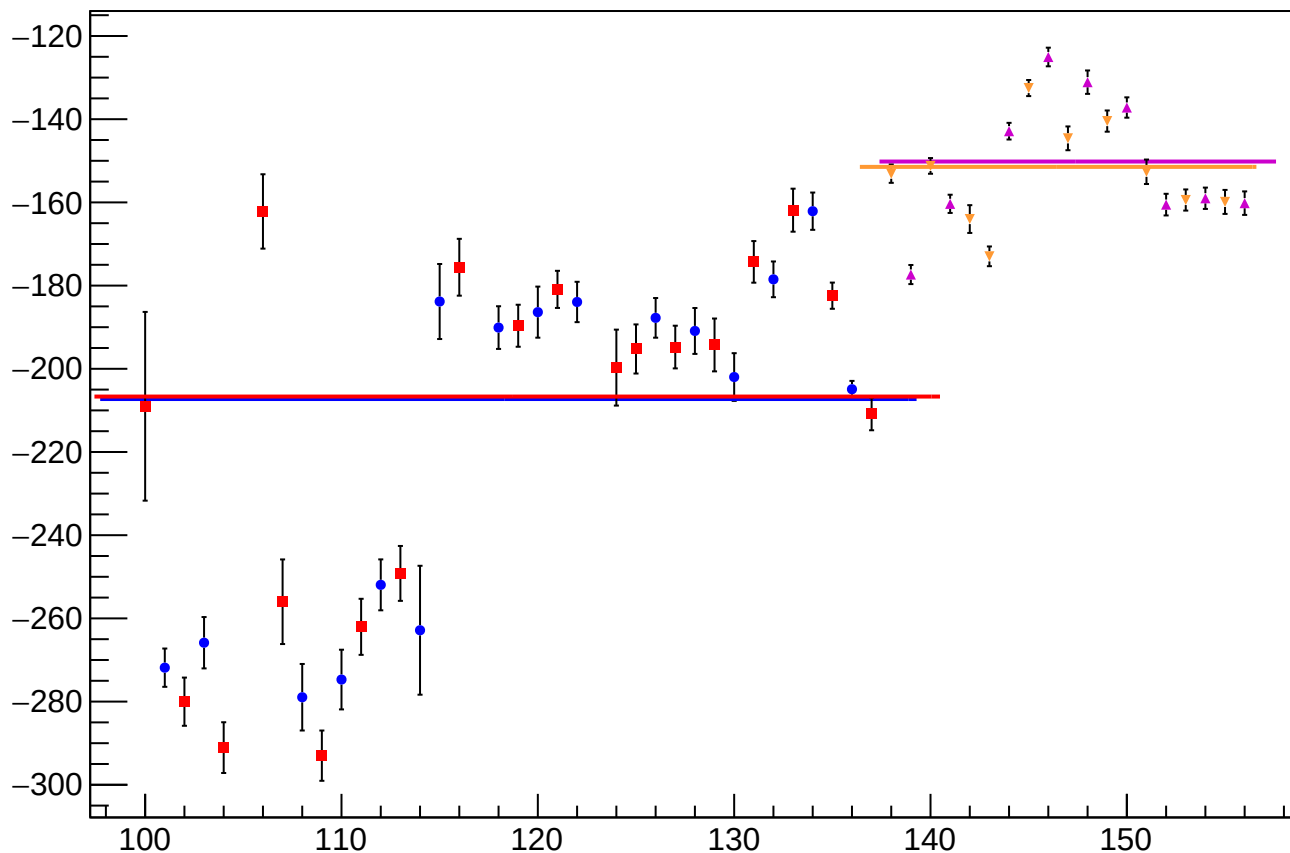
Right: -48.076 ± 0.806 $\chi^2/\text{NDF}: 3648.9/34$

In: -40.422 ± 0.503 $\chi^2/\text{NDF}: 2779.4/24$

Out: -37.076 ± 0.495 $\chi^2/\text{NDF}: 1970.8/28$

All: -38.721 ± 0.353 $\chi^2/\text{NDF}: 4772.7/53$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -207.266 ± 1.178 χ^2/NDF : 748.5/15

Left Out: -151.464 ± 0.769 χ^2/NDF : 235.7/9

Right Out: -206.673 ± 1.279 χ^2/NDF : 969.4/18

Left In: -150.177 ± 0.799 χ^2/NDF : 415.1/8

Left: -150.845 ± 0.554 χ^2/NDF : 652.1/18

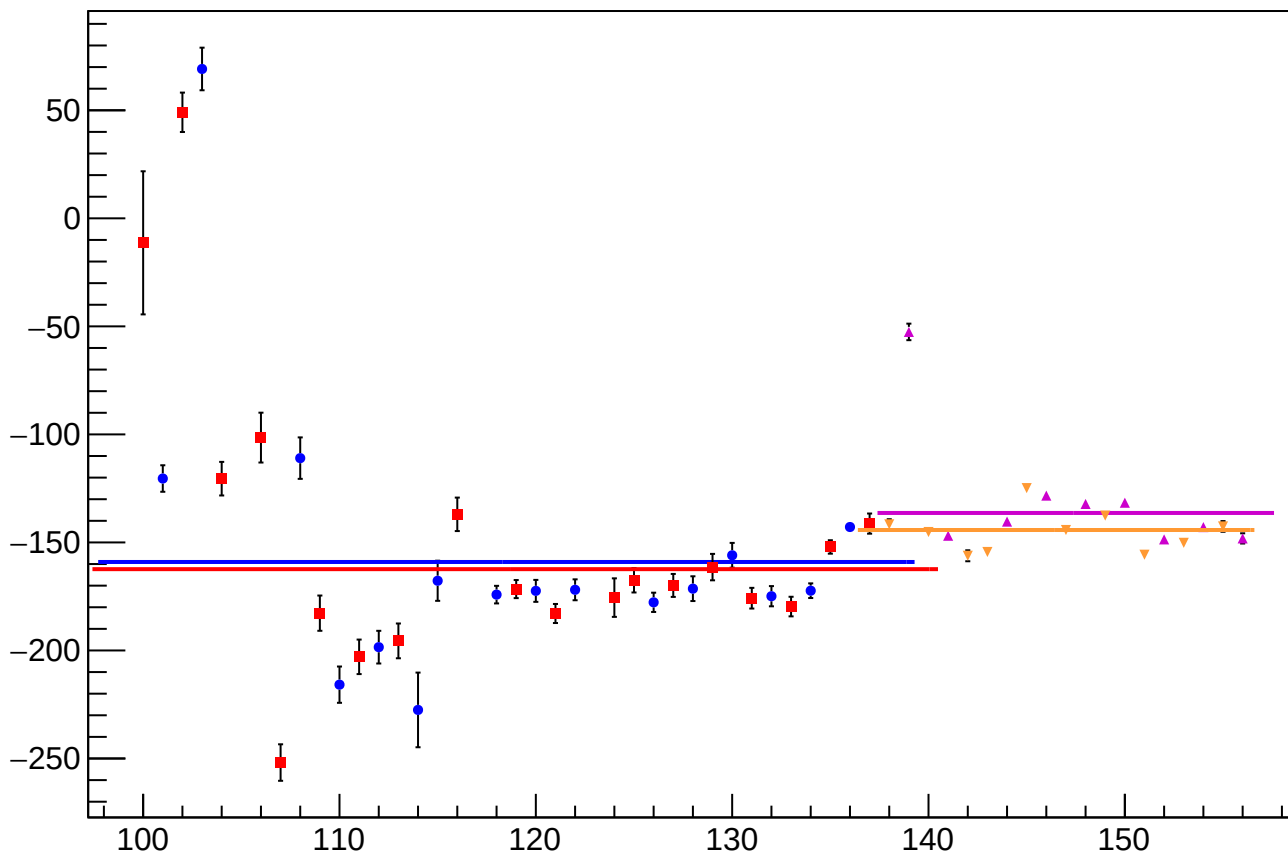
Right: -206.994 ± 0.867 χ^2/NDF : 1718.0/34

In: -168.166 ± 0.661 χ^2/NDF : 2771.2/24

Out: -166.125 ± 0.659 χ^2/NDF : 2572.6/28

All: -167.142 ± 0.467 χ^2/NDF : 5348.6/53

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -159.048 ± 1.225 χ^2/NDF : 815.8/15

Left Out: -144.249 ± 0.657 χ^2/NDF : 218.4/9

Right Out: -162.370 ± 1.324 χ^2/NDF : 872.6/18

Left In: -136.360 ± 0.681 χ^2/NDF : 616.4/8

Left: -140.442 ± 0.473 χ^2/NDF : 904.3/18

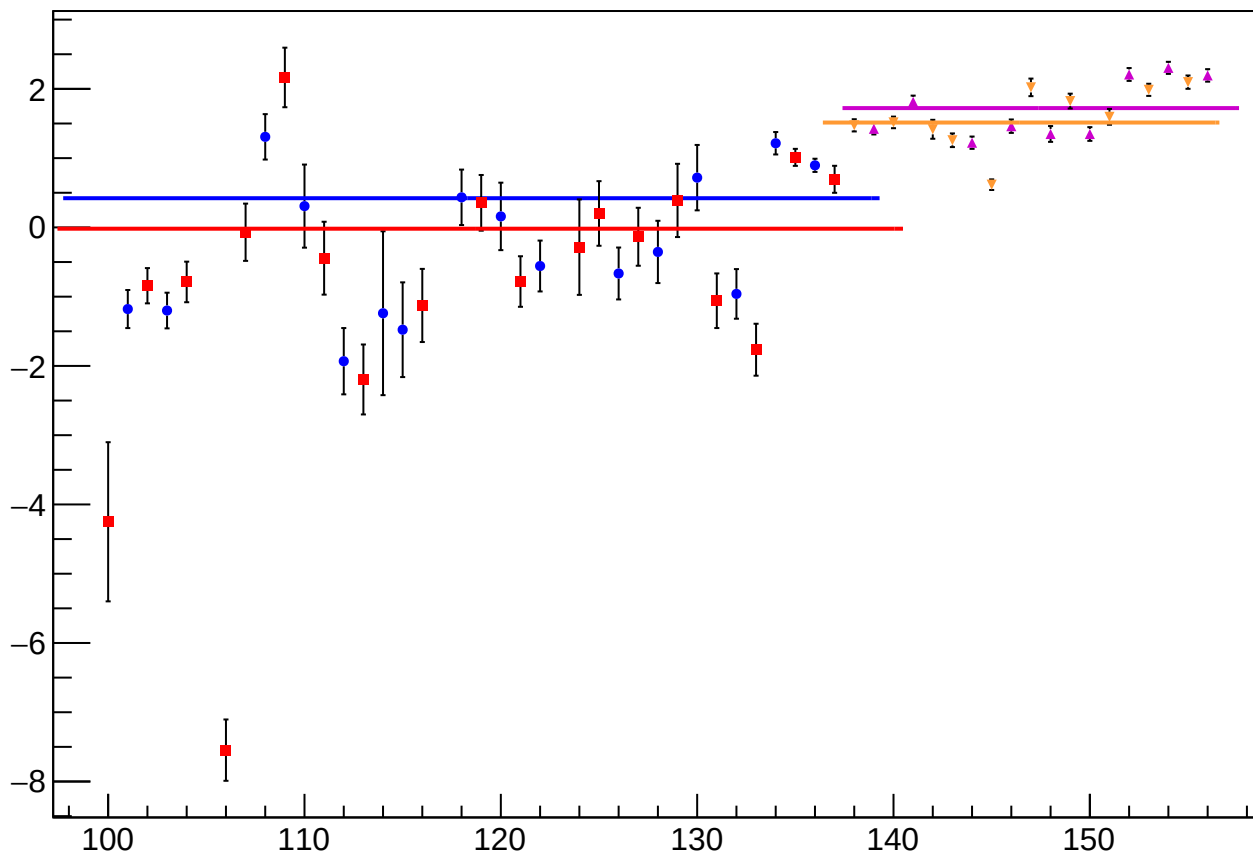
Right: -160.581 ± 0.899 χ^2/NDF : 1691.7/34

In: -141.709 ± 0.595 χ^2/NDF : 1694.1/24

Out: -147.832 ± 0.589 χ^2/NDF : 1241.2/28

All: -144.803 ± 0.419 χ^2/NDF : 2988.8/53

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.421 ± 0.065 χ^2/NDF : 197.6/15

Left Out: 1.514 ± 0.031 χ^2/NDF : 234.7/9

Right Out: -0.019 ± 0.072 χ^2/NDF : 488.2/18

Left In: 1.722 ± 0.031 χ^2/NDF : 177.3/8

Left: 1.618 ± 0.022 χ^2/NDF : 435.0/18

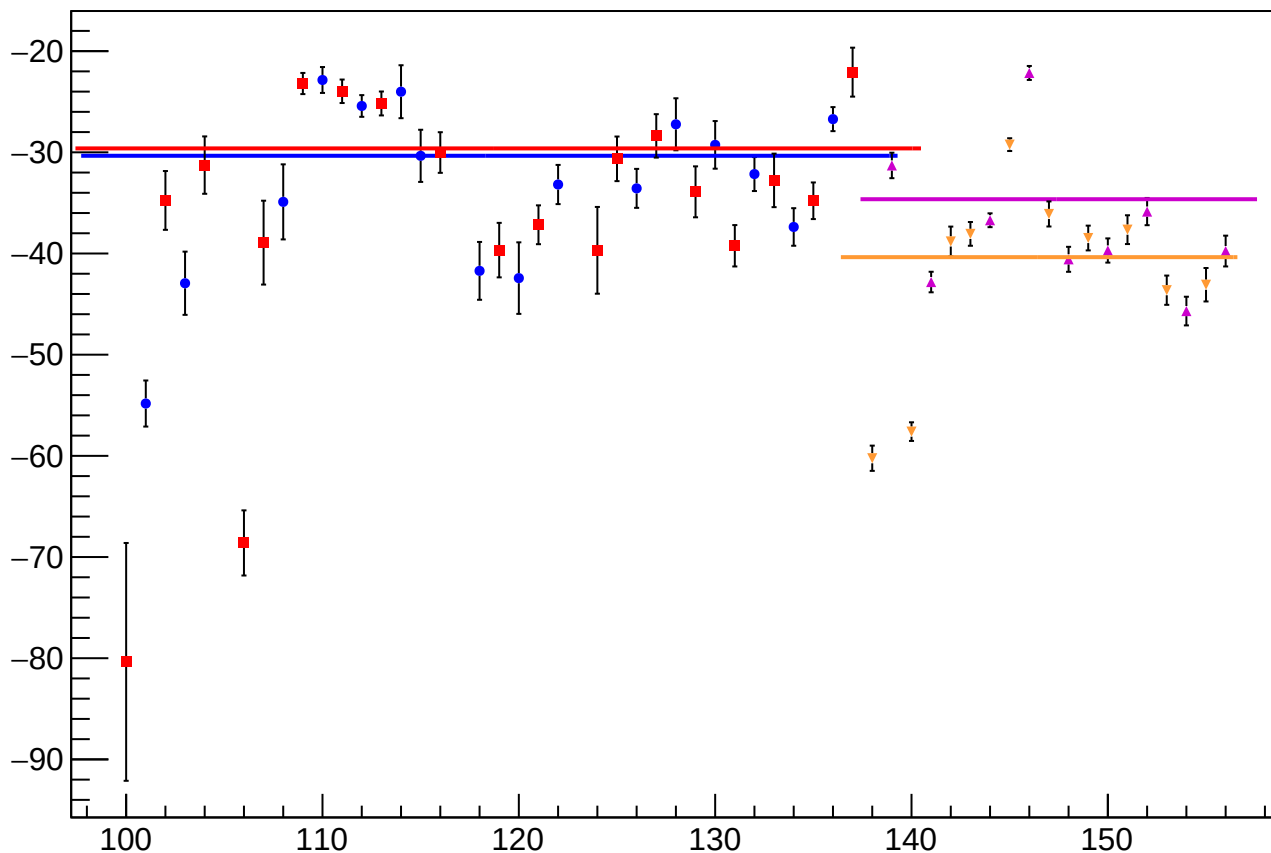
Right: 0.225 ± 0.048 χ^2/NDF : 706.4/34

In: 1.483 ± 0.028 χ^2/NDF : 703.6/24

Out: 1.280 ± 0.028 χ^2/NDF : 1103.5/28

All: 1.383 ± 0.020 χ^2/NDF : 1833.4/53

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected

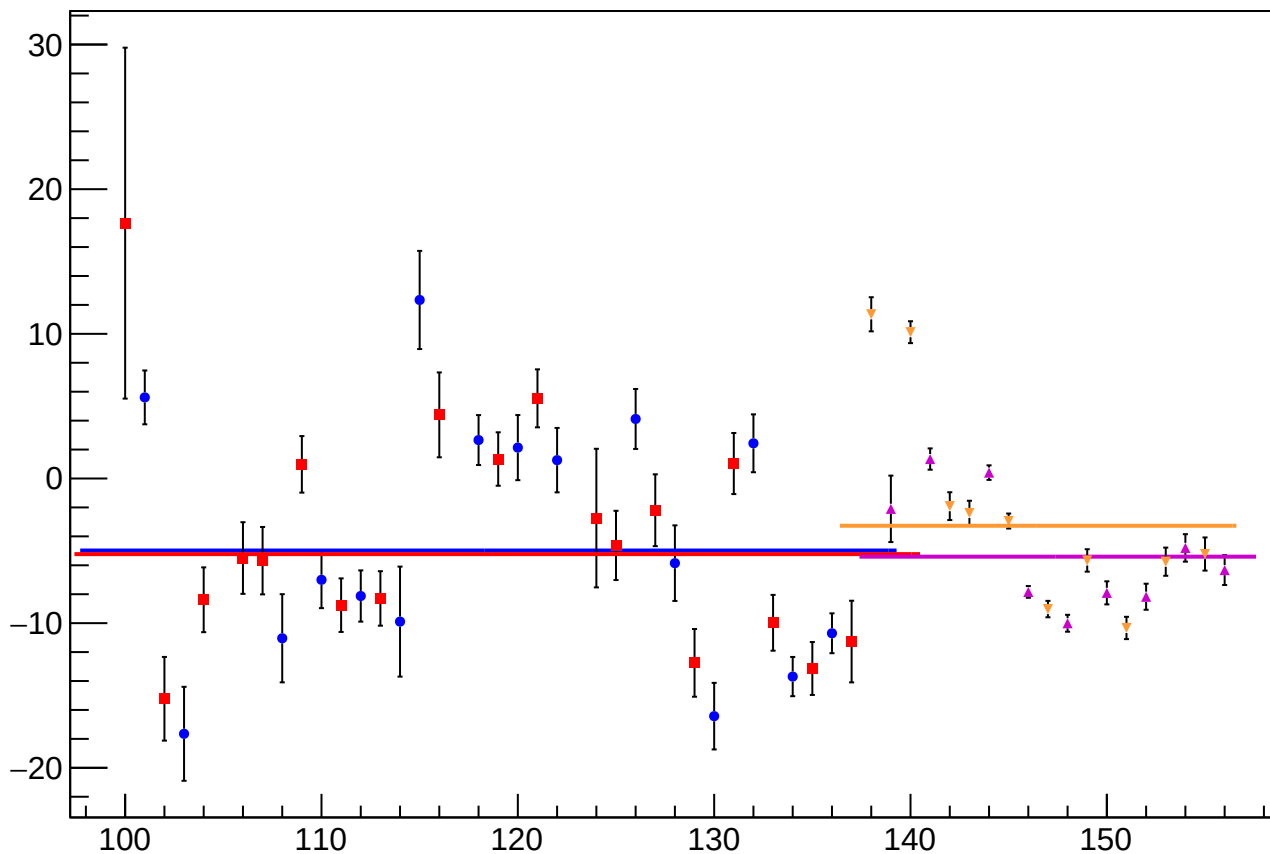


Right In: -30.341 ± 0.468 χ^2/NDF : 253.6/15
 Left Out: -40.361 ± 0.350 χ^2/NDF : 945.0/9
 Right Out: -29.613 ± 0.450 χ^2/NDF : 329.2/18
 Left In: -34.635 ± 0.340 χ^2/NDF : 521.2/8

Left: -37.414 ± 0.244 χ^2/NDF : 1604.2/18
 Right: -29.963 ± 0.324 χ^2/NDF : 584.0/34
 In: -33.153 ± 0.275 χ^2/NDF : 830.0/24
 Out: -36.319 ± 0.276 χ^2/NDF : 1629.4/28

All: -34.728 ± 0.195 χ^2/NDF : 2525.4/53

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.980 ± 0.510 χ^2/NDF : 237.3/15

Left Out: -3.266 ± 0.243 χ^2/NDF : 675.6/9

Right Out: -5.228 ± 0.524 χ^2/NDF : 136.5/18

Left In: -5.404 ± 0.224 χ^2/NDF : 338.4/8

Left: -4.421 ± 0.165 χ^2/NDF : 1055.8/18

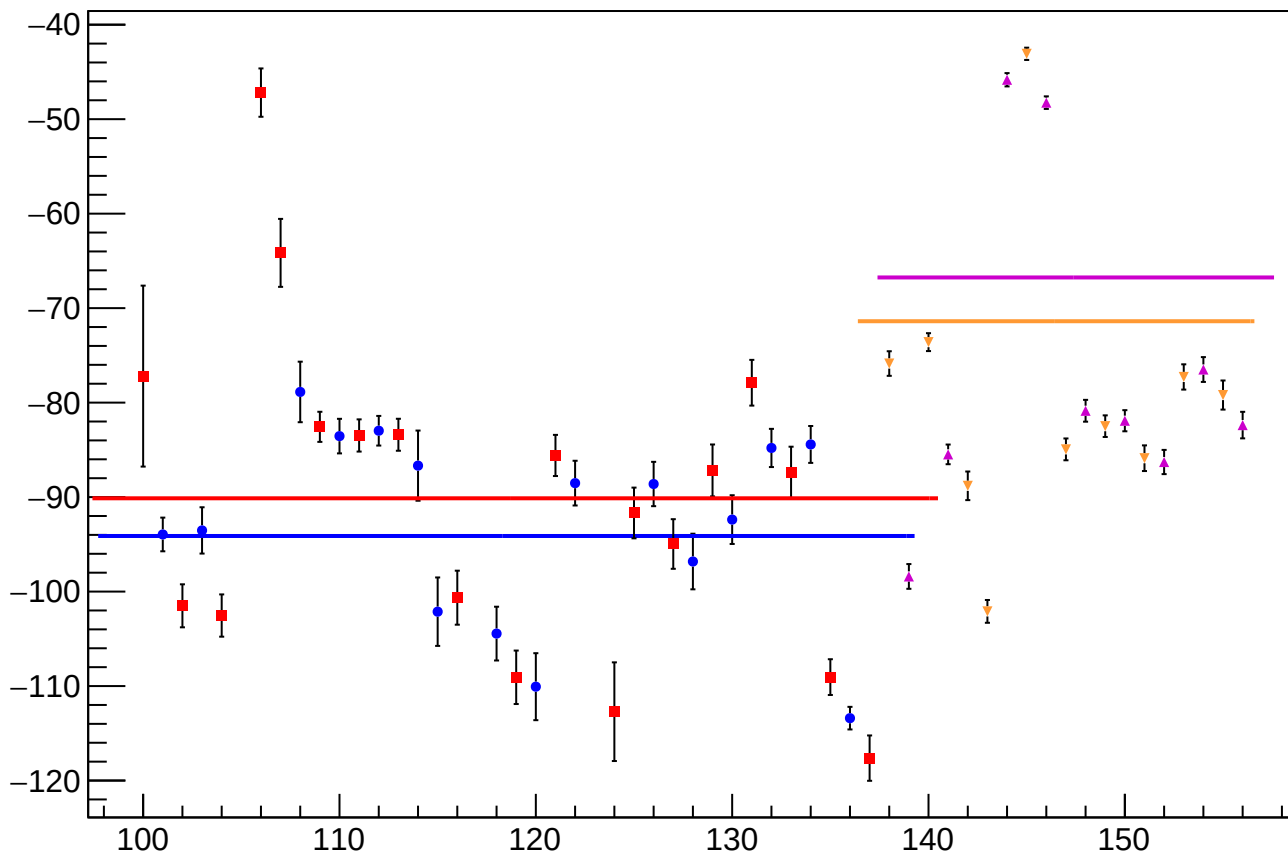
Right: -5.100 ± 0.365 χ^2/NDF : 373.9/34

In: -5.335 ± 0.205 χ^2/NDF : 576.3/24

Out: -3.614 ± 0.220 χ^2/NDF : 823.7/28

All: -4.536 ± 0.150 χ^2/NDF : 1432.6/53

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -94.115 ± 0.537 χ^2/NDF : 466.8/15

Left Out: -71.385 ± 0.349 χ^2/NDF : 3082.0/9

Right Out: -90.127 ± 0.543 χ^2/NDF : 789.3/18

Left In: -66.753 ± 0.333 χ^2/NDF : 3305.4/8

Left: -68.963 ± 0.241 χ^2/NDF : 6479.8/18

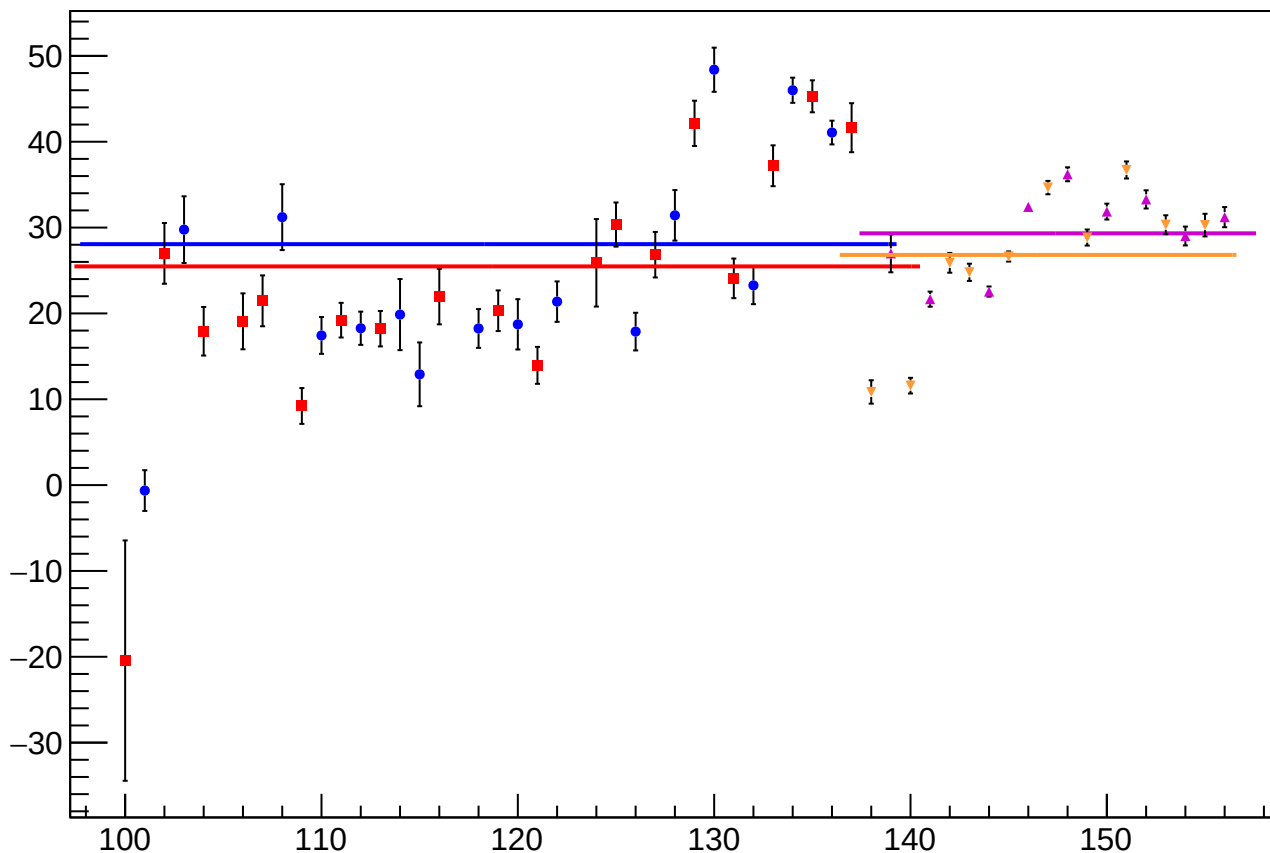
Right: -92.143 ± 0.382 χ^2/NDF : 1283.5/34

In: -74.350 ± 0.283 χ^2/NDF : 5647.5/24

Out: -76.856 ± 0.293 χ^2/NDF : 4715.1/28

All: -75.558 ± 0.204 χ^2/NDF : 10400.4/53

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: 26.813 $\pm$ 0.295 χ^2 /NDF: 642.5/9

Right Out: 25.477 $\pm$ 0.590 χ^2 /NDF: 354.6/18

Left In: 29.329 $\pm$ 0.274 χ^2 /NDF: 341.4/8

Left: 28.162 $\pm$ 0.201 χ^2 /NDF: 1022.9/18

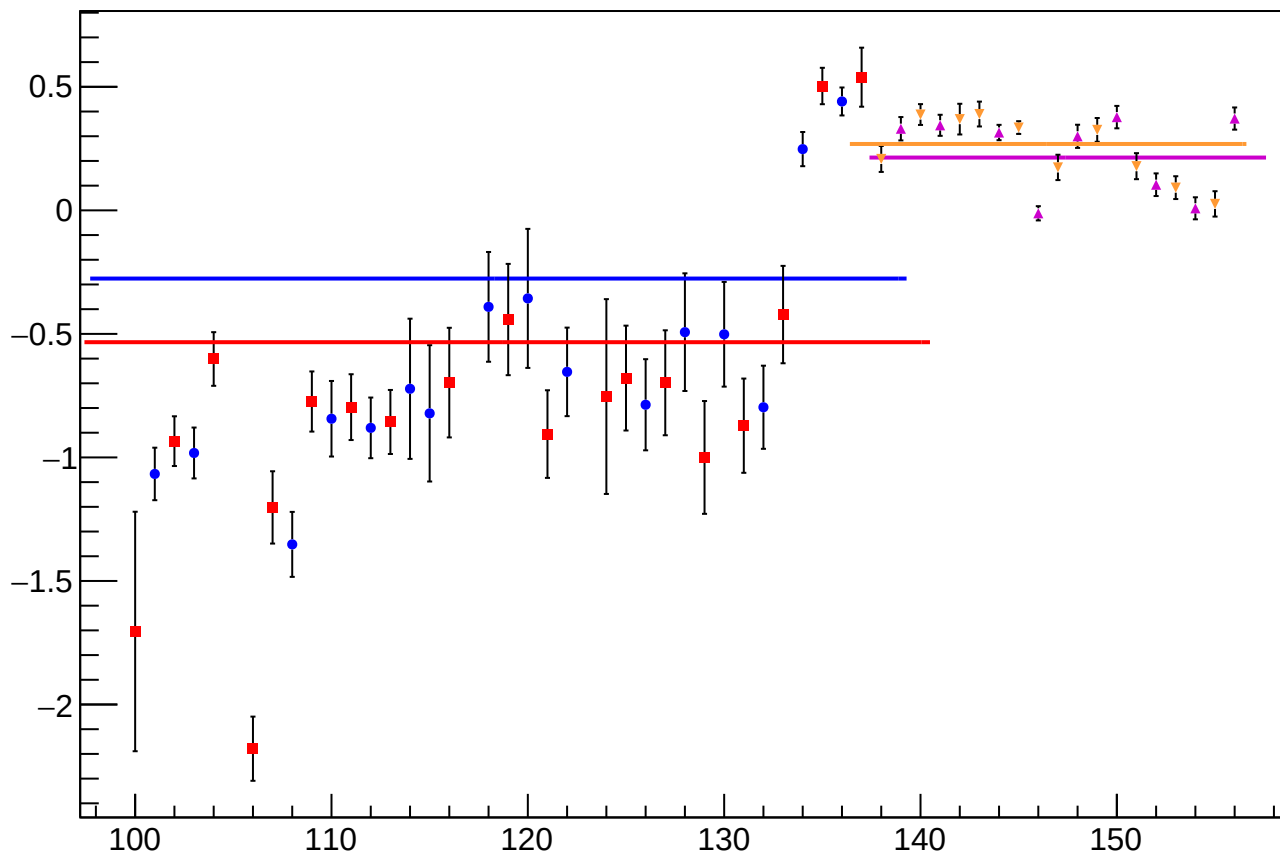
Right: 26.821 $\pm$ 0.410 χ^2 /NDF: 947.7/34

In: 29.092 $\pm$ 0.247 χ^2 /NDF: 928.4/24

Out: 26.547 $\pm$ 0.264 χ^2 /NDF: 1001.2/28

All: 27.903 $\pm$ 0.180 χ^2 /NDF: 1979.3/53

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.276 ± 0.031 χ^2/NDF : 455.6/15

Left Out: 0.269 ± 0.014 χ^2/NDF : 69.1/9

Right Out: -0.534 ± 0.033 χ^2/NDF : 510.3/18

Left In: 0.214 ± 0.013 χ^2/NDF : 143.0/8

Left: 0.240 ± 0.010 χ^2/NDF : 220.2/18

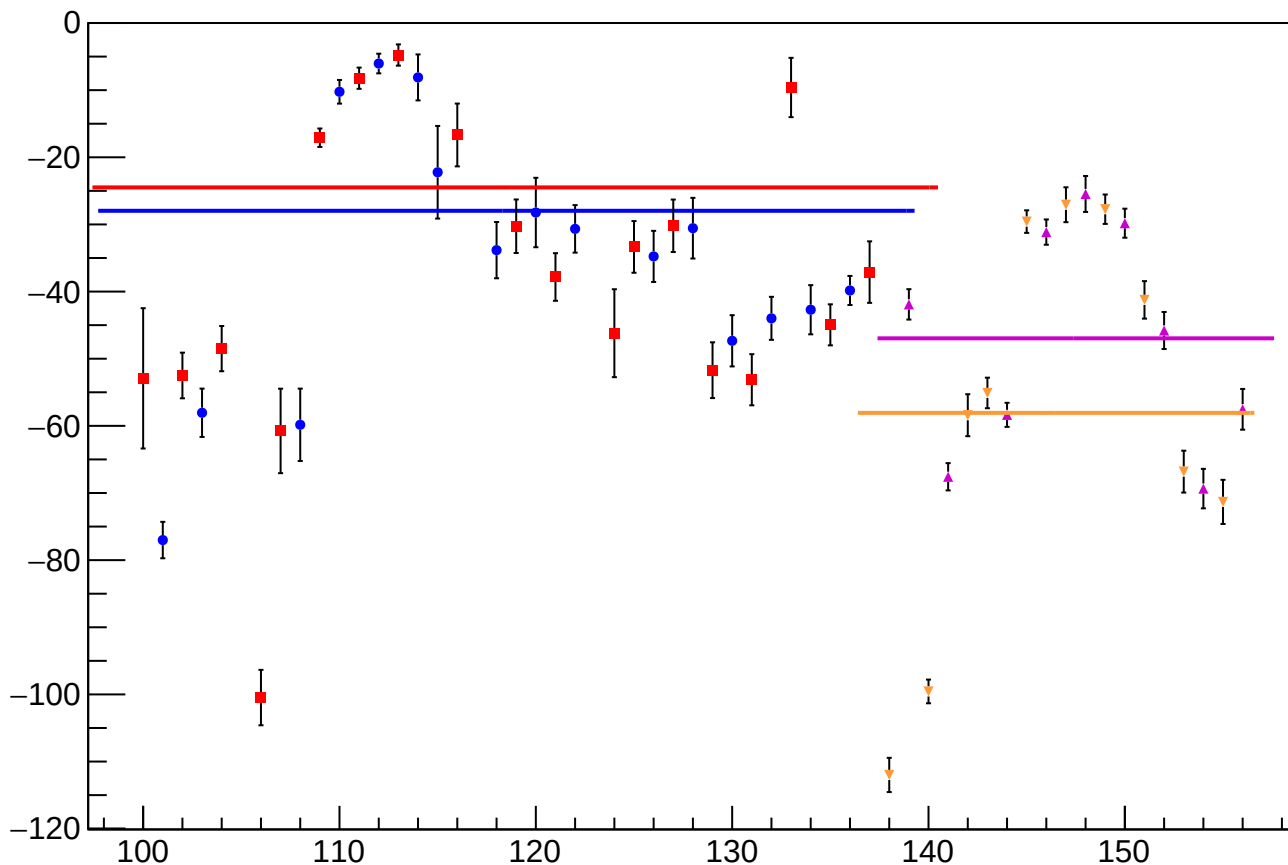
Right: -0.396 ± 0.022 χ^2/NDF : 998.8/34

In: 0.136 ± 0.012 χ^2/NDF : 813.6/24

Out: 0.145 ± 0.013 χ^2/NDF : 1084.2/28

All: 0.140 ± 0.009 χ^2/NDF : 1898.0/53

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.967 ± 0.728 χ^2/NDF : 894.7/15

Left Out: -58.065 ± 0.744 χ^2/NDF : 1684.1/9

Right Out: -24.485 ± 0.663 χ^2/NDF : 989.7/18

Left In: -46.965 ± 0.758 χ^2/NDF : 416.7/8

Left: -52.617 ± 0.531 χ^2/NDF : 2209.9/18

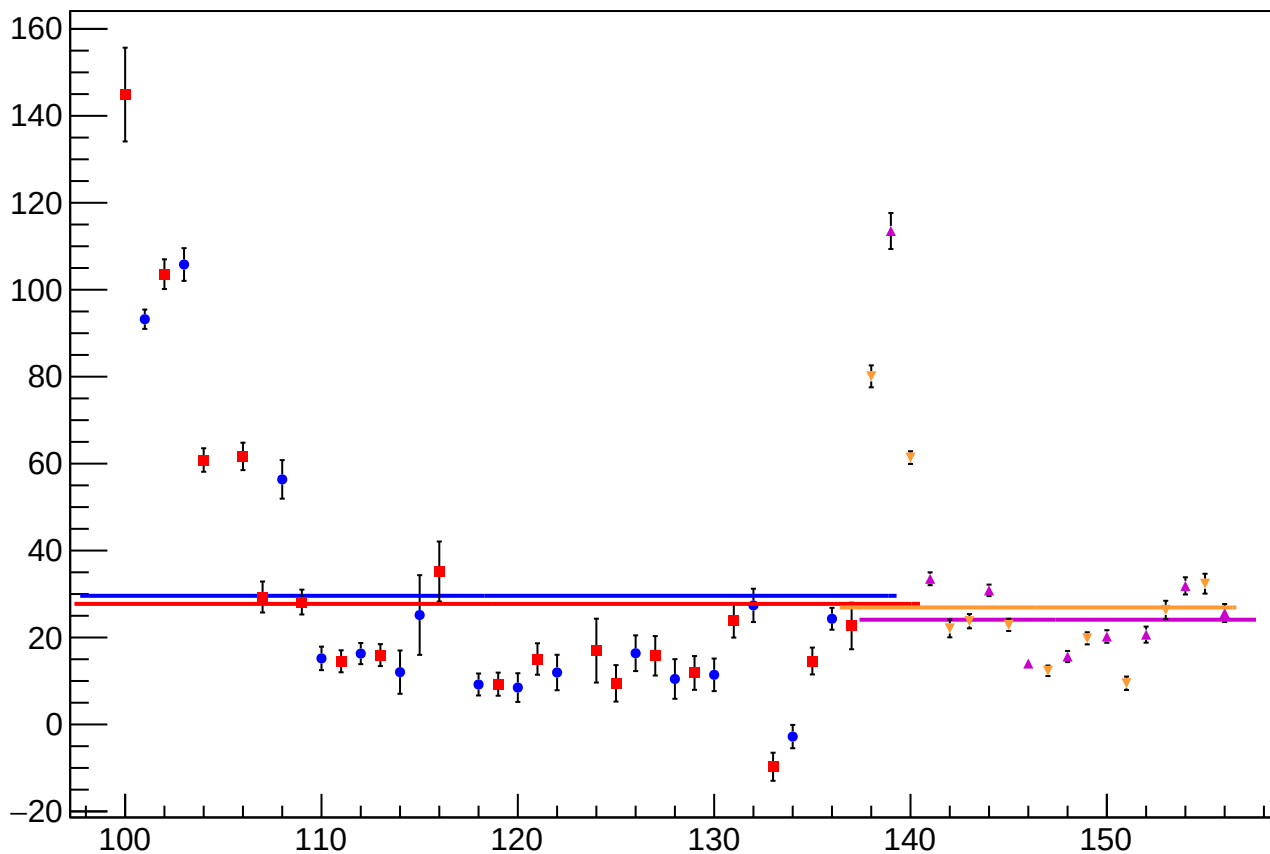
Right: -26.064 ± 0.490 χ^2/NDF : 1896.8/34

In: -37.077 ± 0.525 χ^2/NDF : 1638.2/24

Out: -39.339 ± 0.495 χ^2/NDF : 3809.0/28

All: -38.274 ± 0.360 χ^2/NDF : 5457.1/53

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: 26.911 $\pm$ 0.515 χ^2 /NDF:1317.7/9

Right Out: 27.736 $\pm$ 0.797 χ^2 /NDF: 1185.1/18

Left In: 24.094 $\pm$ 0.519 χ^2 /NDF:679.5/8

Left: 25.515 $\pm$ 0.366 χ^2 /NDF: 2012.1/18

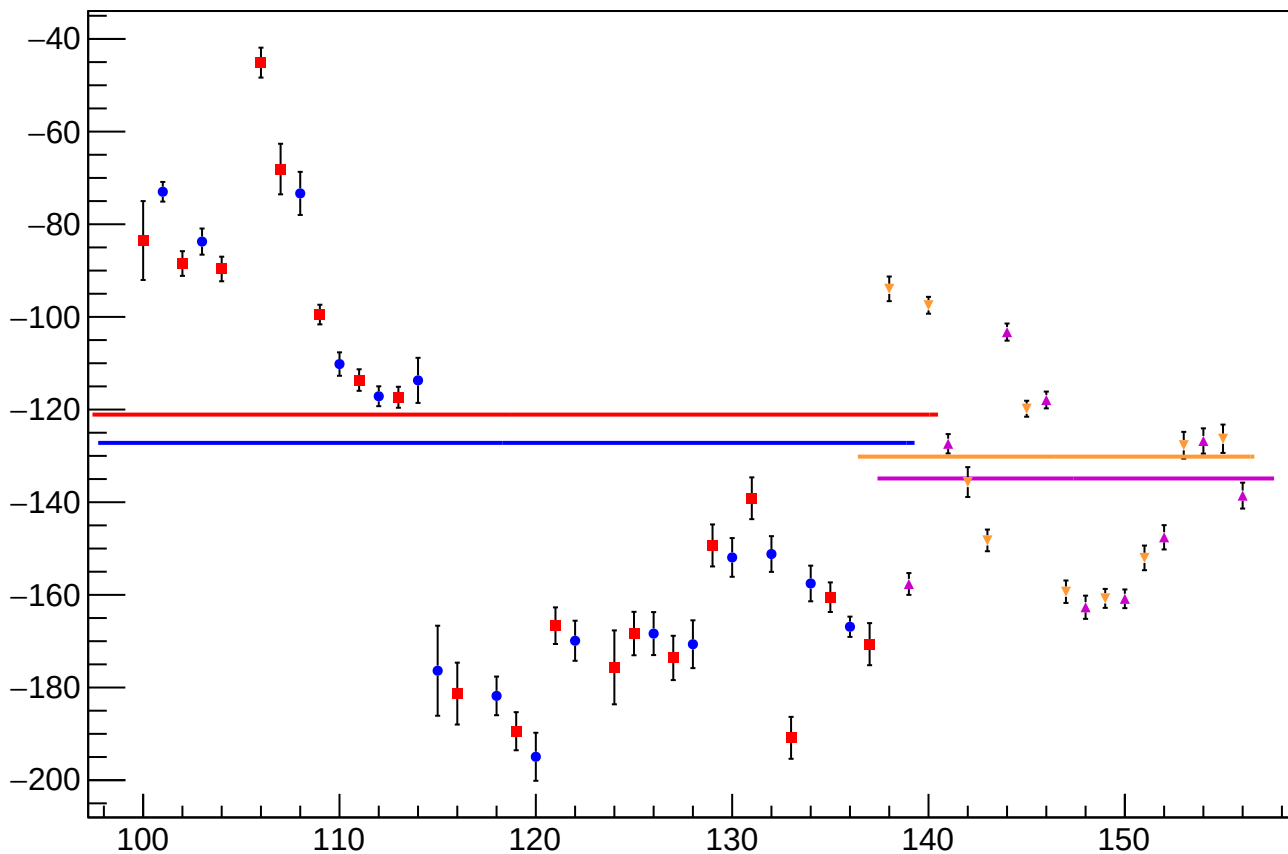
Right: 28.653 $\pm$ 0.567 χ^2 /NDF: 2853.5/34

In: 25.704 $\pm$ 0.437 χ^2 /NDF:2378.1/24

Out: 27.154 $\pm$ 0.432 χ^2 /NDF:2503.5/28

All: 26.436 $\pm$ 0.307 χ^2 /NDF: 4887.2/53

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -127.190 ± 0.829 χ^2/NDF : 2178.2/15

Left Out: -130.157 ± 0.738 χ^2/NDF : 1046.3/9

Right Out: -121.086 ± 0.798 χ^2/NDF : 2397.3/18

Left In: -134.875 ± 0.741 χ^2/NDF : 808.5/8

Left: -132.504 ± 0.523 χ^2/NDF : 1875.2/18

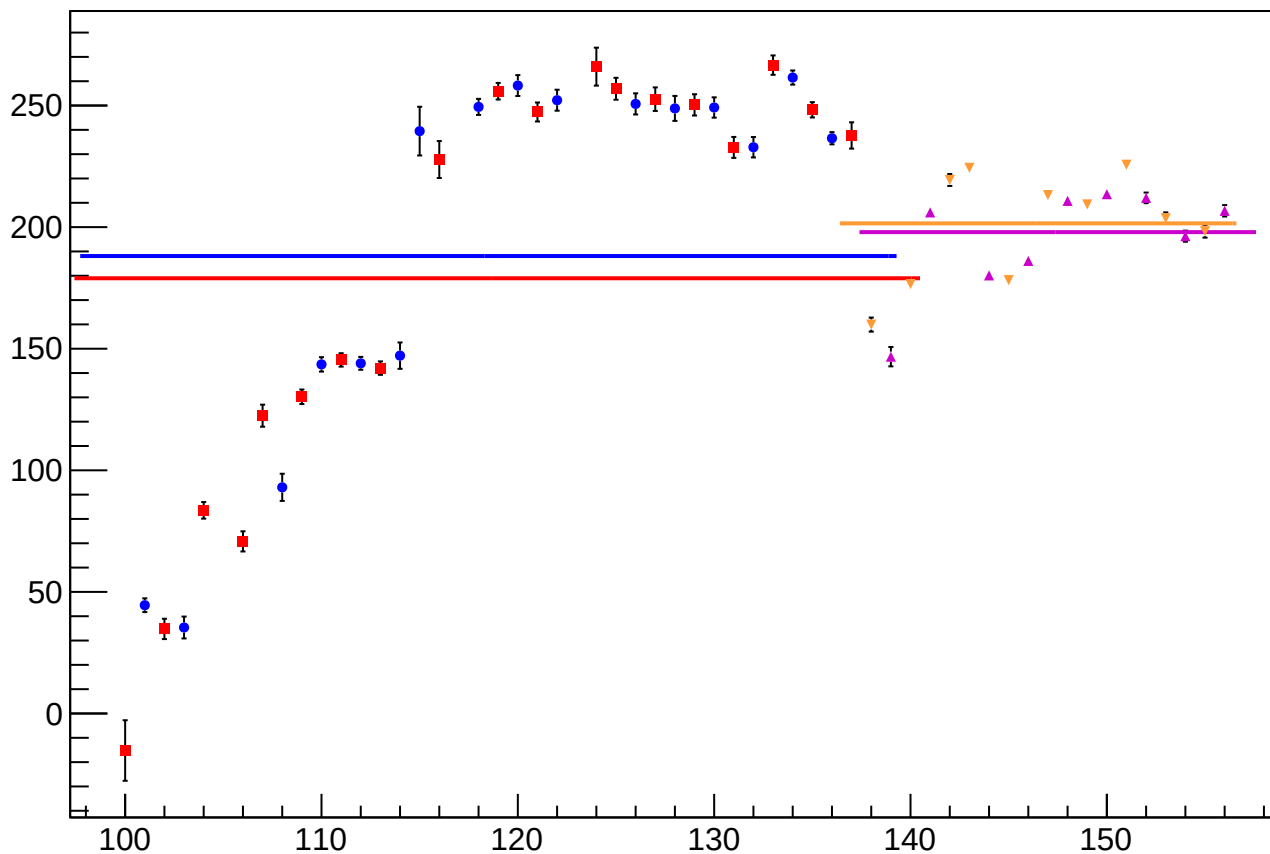
Right: -124.019 ± 0.575 χ^2/NDF : 4603.6/34

In: -131.461 ± 0.553 χ^2/NDF : 3034.4/24

Out: -125.976 ± 0.542 χ^2/NDF : 3513.3/28

All: -128.663 ± 0.387 χ^2/NDF : 6598.0/53

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 188.107 $\pm$ 0.918 χ^2 /NDF: 7118.6/15

Left Out: 201.540 $\pm$ 0.624 χ^2 /NDF:1035.7/9

Right Out: 178.971 $\pm$ 0.908 χ^2 /NDF: 6668.8/18

Left In: 197.943 $\pm$ 0.626 χ^2 /NDF:583.1/8

Left: 199.746 $\pm$ 0.442 χ^2 /NDF: 1635.4/18

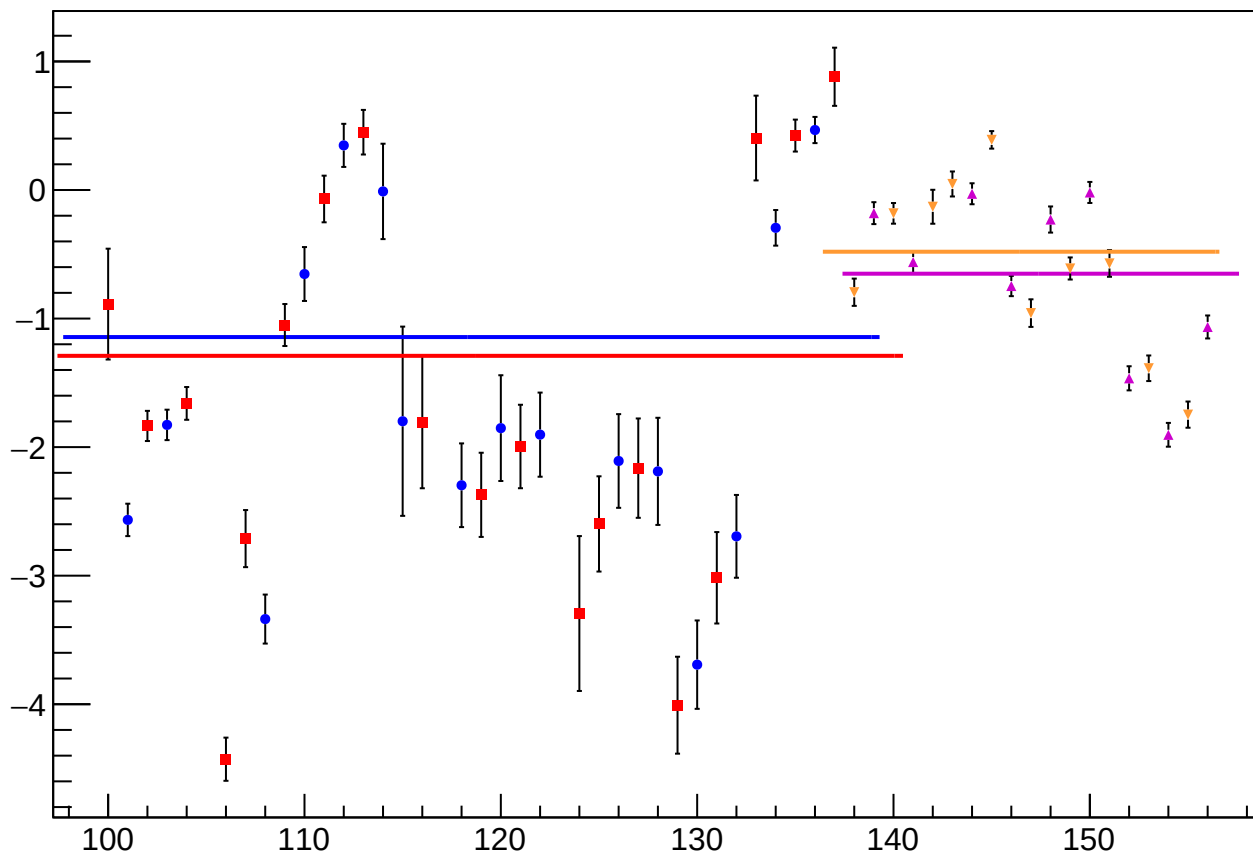
Right: 183.489 $\pm$ 0.646 χ^2 /NDF: 13837.5/34

In: 194.823 $\pm$ 0.517 χ^2 /NDF:7780.2/24

Out: 194.297 $\pm$ 0.514 χ^2 /NDF:8123.9/28

All: 194.558 $\pm$ 0.365 χ^2 /NDF: 15904.6/53

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: -0.480 ± 0.030 $\chi^2/\text{NDF}: 482.5/9$

Right Out: -1.290 ± 0.047 $\chi^2/\text{NDF}: 998.3/18$

Left In: -0.651 ± 0.029 $\chi^2/\text{NDF}: 448.1/8$

Left: -0.568 ± 0.021 $\chi^2/\text{NDF}: 947.6/18$

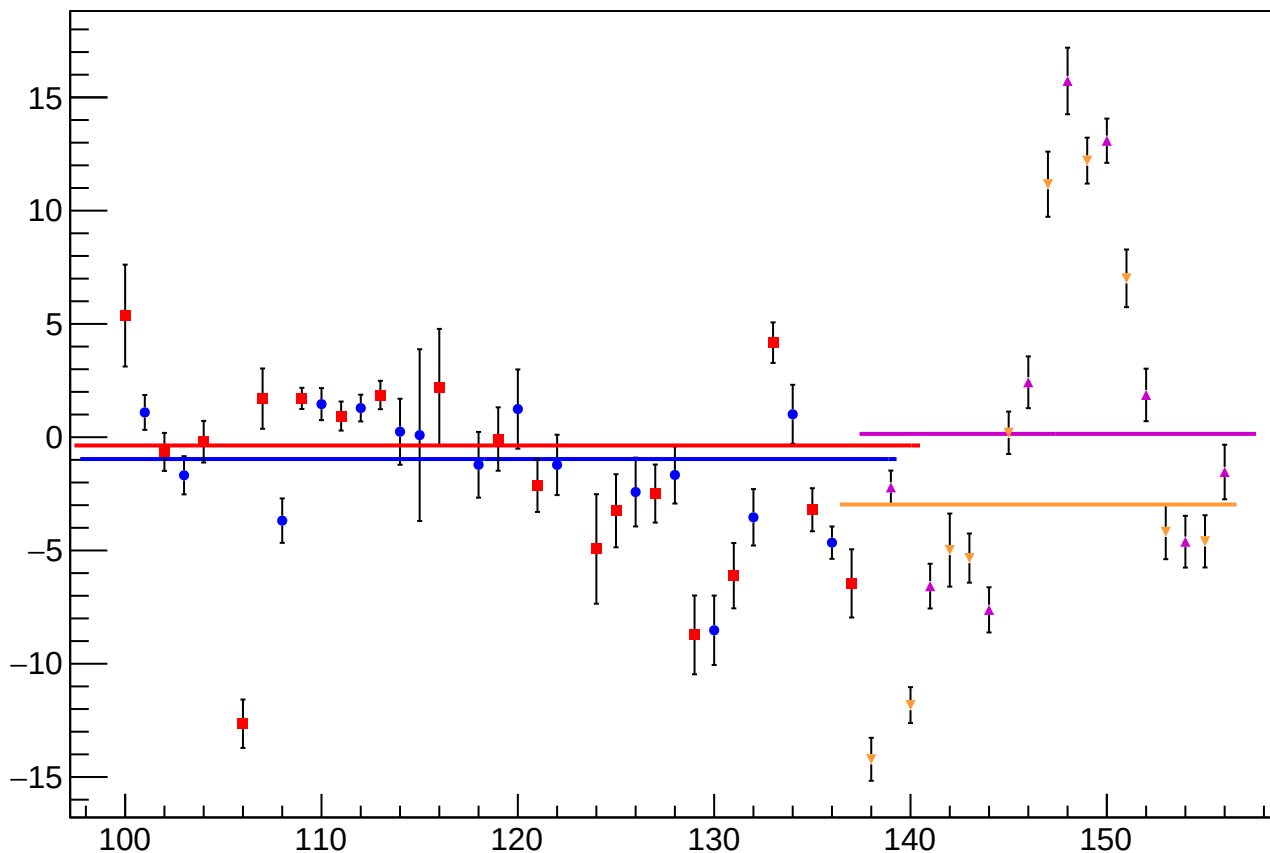
Right: -1.218 ± 0.034 $\chi^2/\text{NDF}: 1790.3/34$

In: -0.783 ± 0.025 $\chi^2/\text{NDF}: 1312.7/24$

Out: -0.708 ± 0.025 $\chi^2/\text{NDF}: 1690.1/28$

All: -0.746 ± 0.018 $\chi^2/\text{NDF}: 3007.2/53$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.964 ± 0.253 $\chi^2/\text{NDF}: 103.2/15$

Left Out: -2.972 ± 0.341 $\chi^2/\text{NDF}: 668.4/9$

Right Out: -0.365 ± 0.224 $\chi^2/\text{NDF}: 280.6/18$

Left In: 0.146 ± 0.346 $\chi^2/\text{NDF}: 430.6/8$

Left: -1.437 ± 0.243 $\chi^2/\text{NDF}: 1140.1/18$

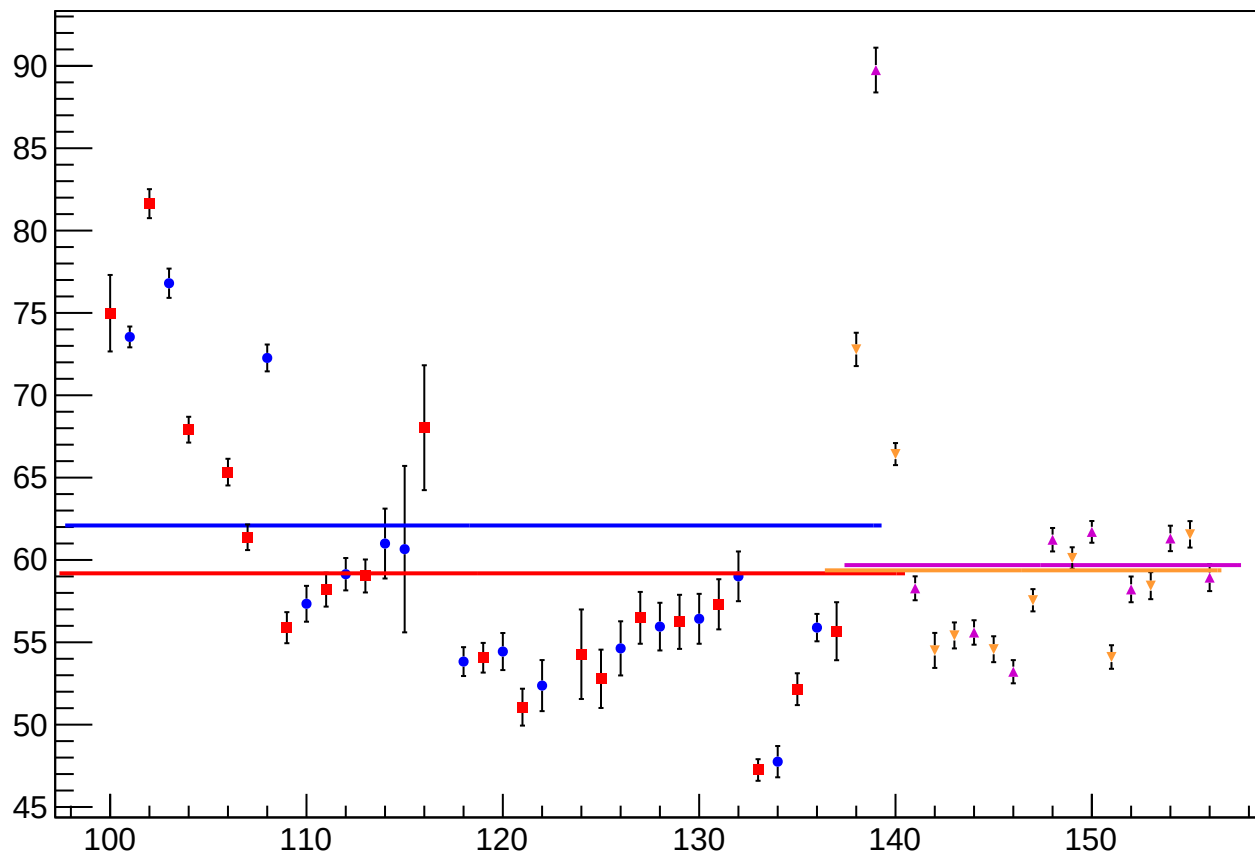
Right: -0.628 ± 0.168 $\chi^2/\text{NDF}: 386.9/34$

In: -0.578 ± 0.204 $\chi^2/\text{NDF}: 540.5/24$

Out: -1.149 ± 0.187 $\chi^2/\text{NDF}: 989.8/28$

All: -0.889 ± 0.138 $\chi^2/\text{NDF}: 1534.5/53$

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: 59.370 $\pm$ 0.244 χ^2 /NDF: 441.1/9

Right Out: 59.188 $\pm$ 0.244 χ^2 /NDF: 1402.1/18

Left In: 59.688 $\pm$ 0.255 χ^2 /NDF: 630.6/8

Left: 59.521 $\pm$ 0.176 χ^2 /NDF: 1072.5/18

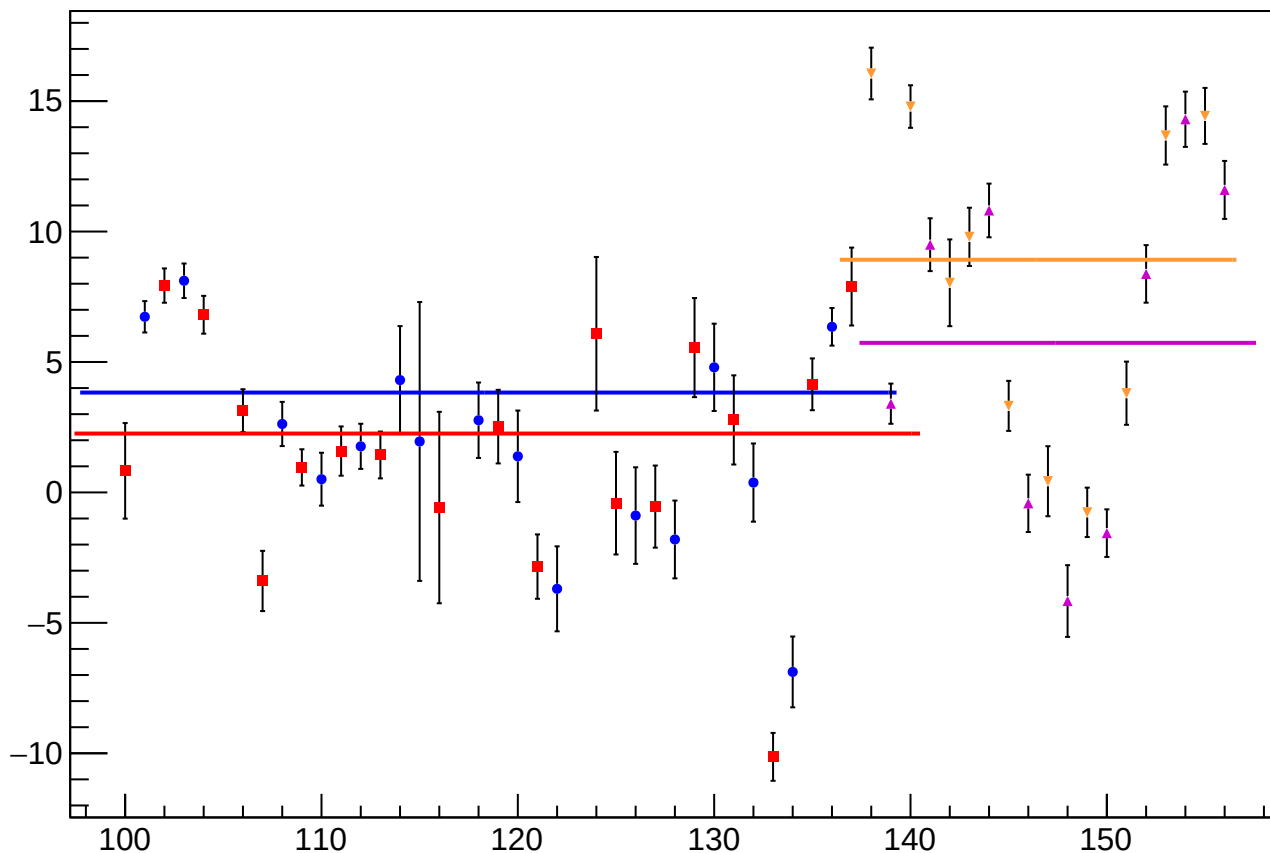
Right: 60.518 $\pm$ 0.180 χ^2 /NDF: 2768.4/34

In: 60.845 $\pm$ 0.184 χ^2 /NDF: 1974.5/24

Out: 59.279 $\pm$ 0.172 χ^2 /NDF: 1843.5/28

All: 60.010 $\pm$ 0.126 χ^2 /NDF: 3856.6/53

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.828 ± 0.265 χ^2/NDF : 208.6/15

Left Out: 8.919 ± 0.337 χ^2/NDF : 345.7/9

Right Out: 2.257 ± 0.246 χ^2/NDF : 371.9/18

Left In: 5.733 ± 0.339 χ^2/NDF : 293.3/8

Left: 7.336 ± 0.239 χ^2/NDF : 683.4/18

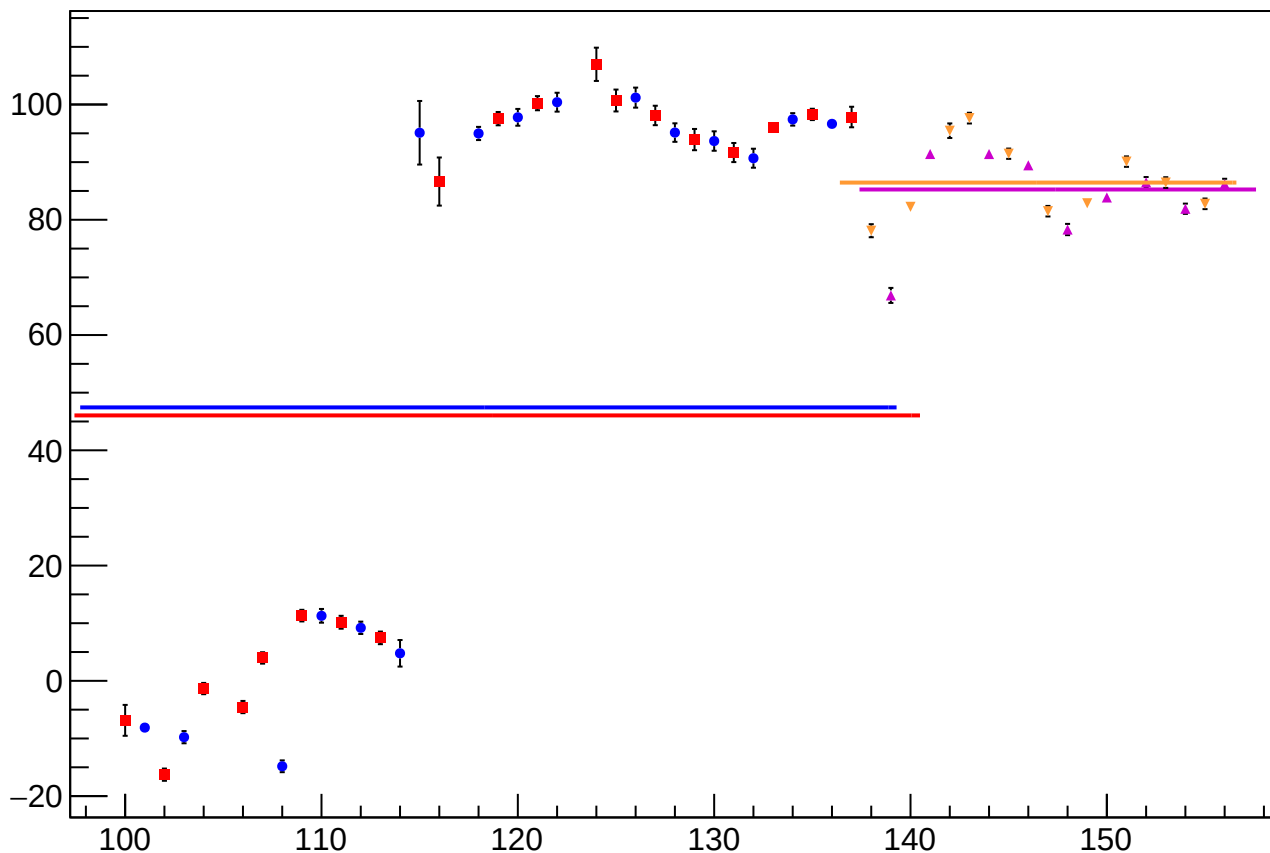
Right: 2.985 ± 0.181 χ^2/NDF : 599.4/34

In: 4.551 ± 0.209 χ^2/NDF : 521.5/24

Out: 4.576 ± 0.199 χ^2/NDF : 972.0/28

All: 4.564 ± 0.144 χ^2/NDF : 1493.5/53

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.443 $\pm$ 0.308 χ^2 /NDF: 26886.9/15

Left Out: 86.453 $\pm$ 0.292 χ^2 /NDF:390.3/9

Right Out: 46.053 $\pm$ 0.284 χ^2 /NDF: 28897.8/18

Left In: 85.253 $\pm$ 0.302 χ^2 /NDF:394.0/8

Left: 85.874 $\pm$ 0.210 χ^2 /NDF: 792.5/18

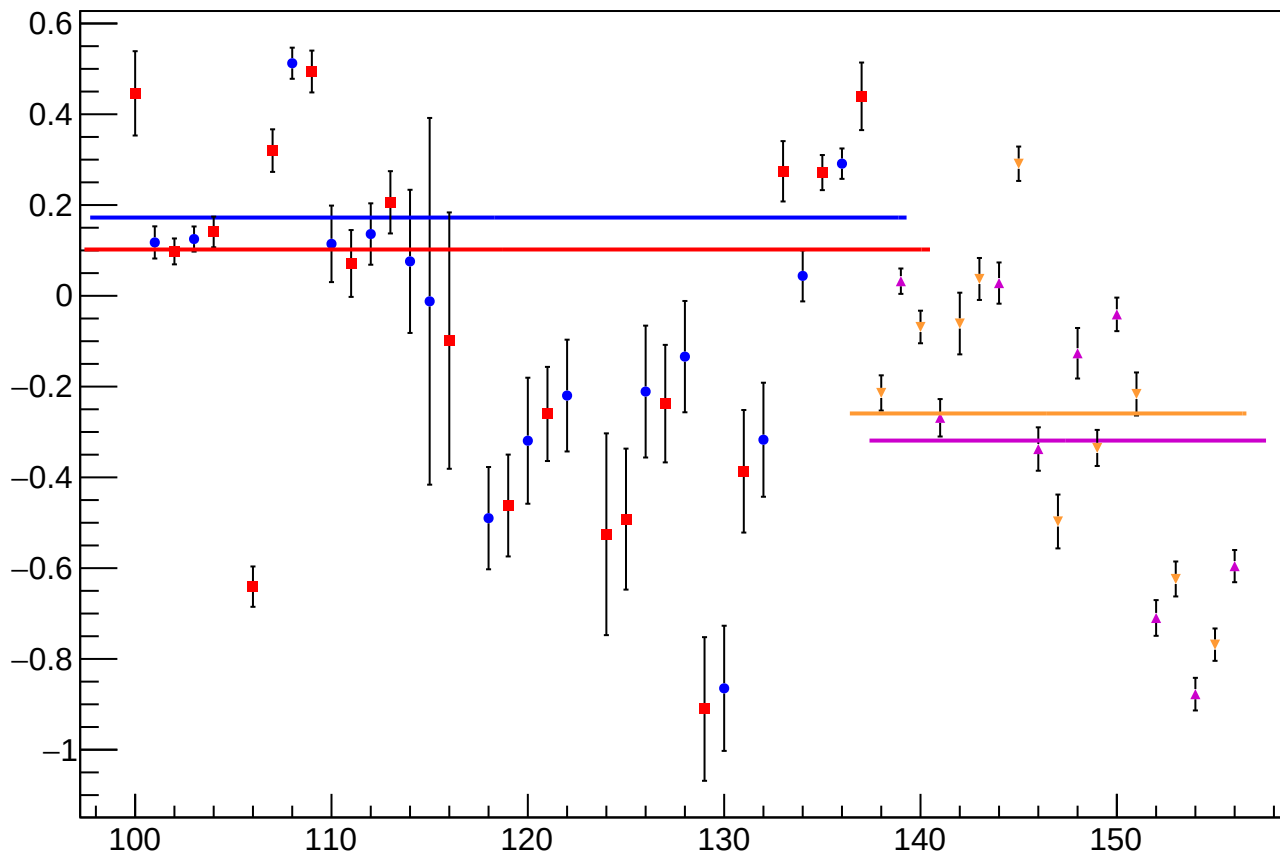
Right: 46.693 $\pm$ 0.209 χ^2 /NDF: 55795.7/34

In: 66.729 $\pm$ 0.216 χ^2 /NDF:34965.0/24

Out: 65.738 $\pm$ 0.204 χ^2 /NDF:39118.3/28

All: 66.206 $\pm$ 0.148 χ^2 /NDF: 74094.5/53

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172 ± 0.014 χ^2/NDF : 265.0/15

Left Out: -0.259 ± 0.013 χ^2/NDF : 604.4/9

Right Out: 0.102 ± 0.013 χ^2/NDF : 558.7/18

Left In: -0.319 ± 0.013 χ^2/NDF : 687.6/8

Left: -0.290 ± 0.009 χ^2/NDF : 1302.4/18

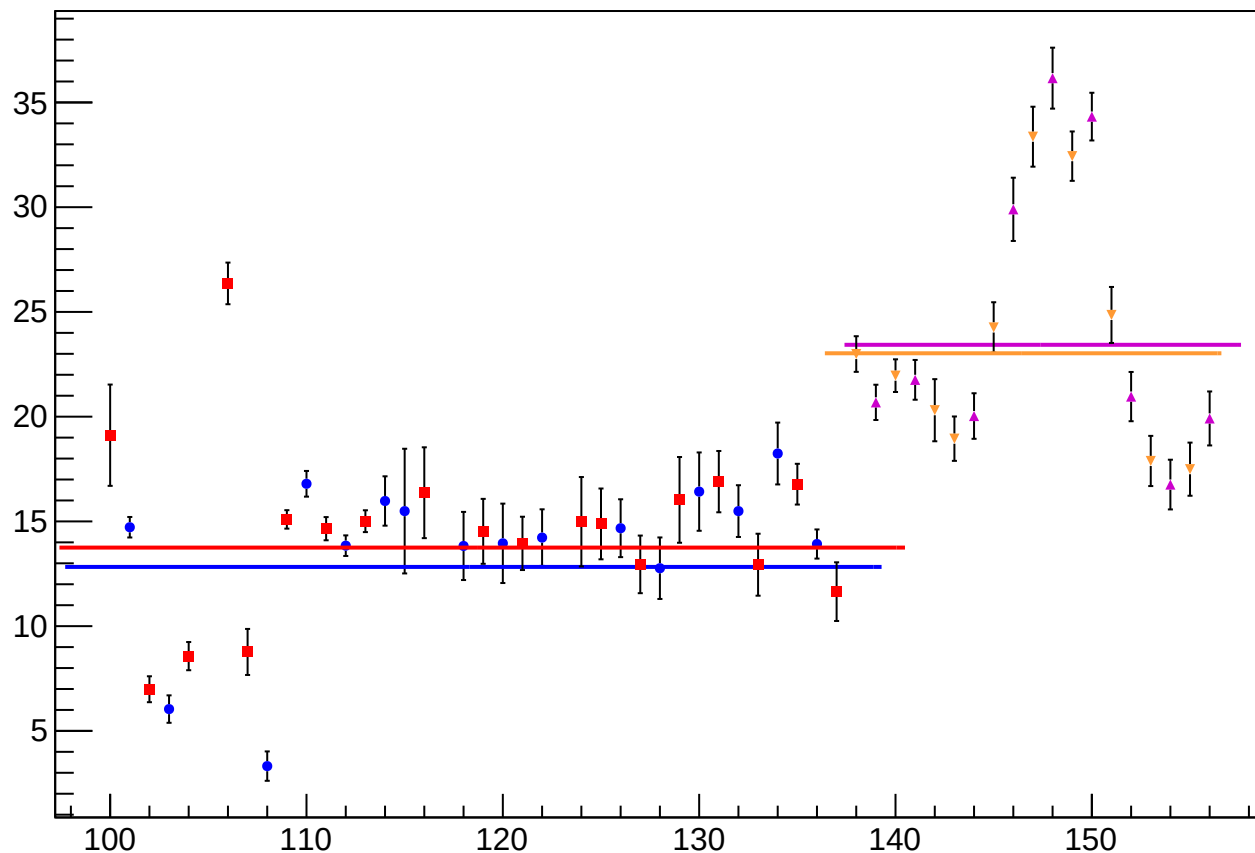
Right: 0.135 ± 0.010 χ^2/NDF : 836.7/34

In: -0.097 ± 0.010 χ^2/NDF : 1613.5/24

Out: -0.080 ± 0.009 χ^2/NDF : 1527.6/28

All: -0.089 ± 0.007 χ^2/NDF : 3142.6/53

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.827 ± 0.214 $\chi^2/\text{NDF}: 388.0/15$

Left Out: 23.026 ± 0.350 $\chi^2/\text{NDF}: 176.3/9$

Right Out: 13.750 ± 0.204 $\chi^2/\text{NDF}: 404.0/18$

Left In: 23.431 ± 0.376 $\chi^2/\text{NDF}: 253.4/8$

Left: 23.214 ± 0.256 $\chi^2/\text{NDF}: 430.4/18$

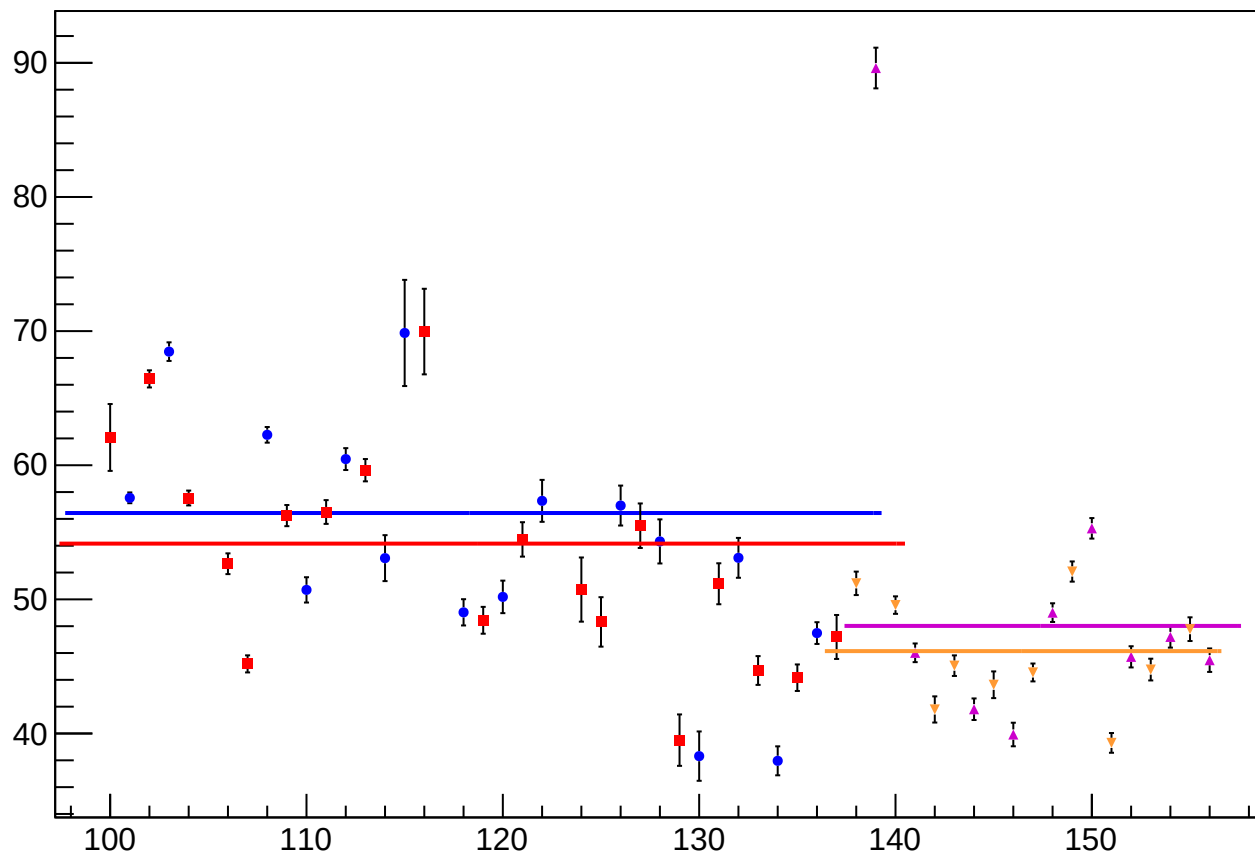
Right: 13.311 ± 0.148 $\chi^2/\text{NDF}: 801.7/34$

In: 15.426 ± 0.186 $\chi^2/\text{NDF}: 1242.8/24$

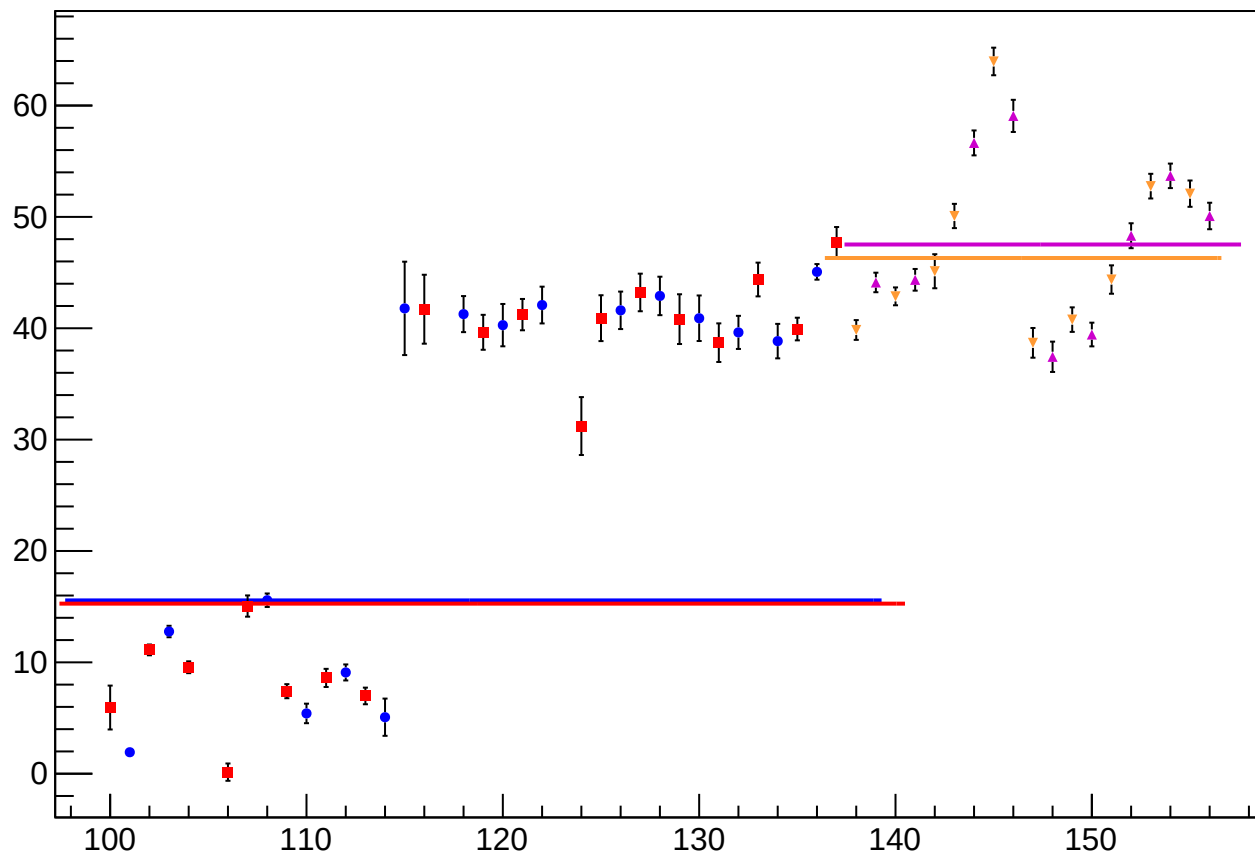
Out: 16.101 ± 0.176 $\chi^2/\text{NDF}: 1103.7/28$

All: 15.781 ± 0.128 $\chi^2/\text{NDF}: 2353.5/53$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 46.309 $\pm$ 0.348 χ^2 /NDF: 405.1/9

Right Out: 15.272 $\pm$ 0.219 χ^2 /NDF: 3873.0/18

Left In: 47.522 $\pm$ 0.368 χ^2 /NDF: 305.2/8

Left: 46.881 $\pm$ 0.253 χ^2 /NDF: 716.0/18

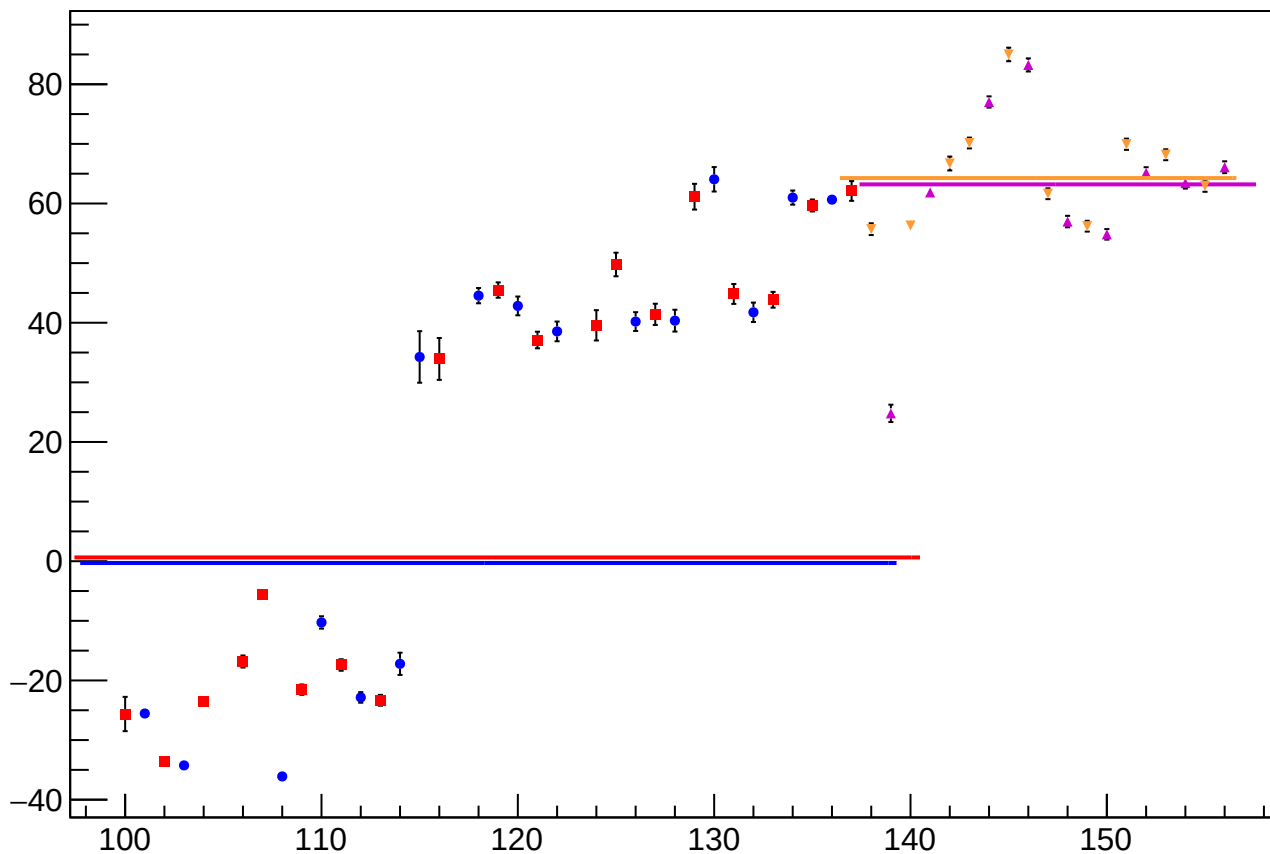
Right: 15.420 $\pm$ 0.153 χ^2 /NDF: 9050.0/34

In: 23.637 $\pm$ 0.185 χ^2 /NDF: 11117.8/24

Out: 24.100 $\pm$ 0.185 χ^2 /NDF: 9984.2/28

All: 23.868 $\pm$ 0.131 χ^2 /NDF: 21105.1/53

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.296 ± 0.261 χ^2/NDF : 21030.9/15

Left Out: 64.267 ± 0.300 χ^2/NDF : 701.7/9

Right Out: 0.633 ± 0.264 χ^2/NDF : 16028.1/18

Left In: 63.207 ± 0.323 χ^2/NDF : 1391.5/8

Left: 63.776 ± 0.220 χ^2/NDF : 2099.0/18

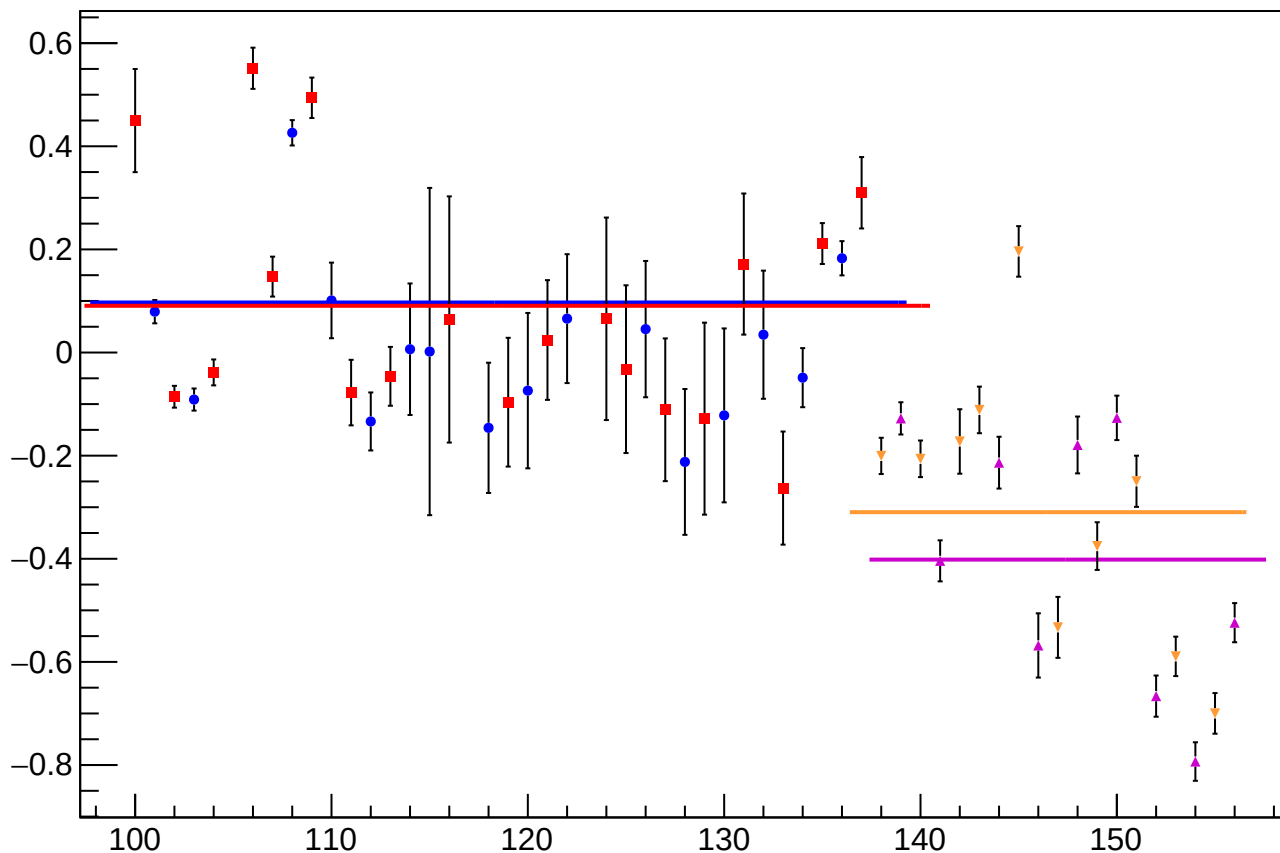
Right: 0.165 ± 0.186 χ^2/NDF : 37065.2/34

In: 24.840 ± 0.203 χ^2/NDF : 45783.2/24

Out: 28.344 ± 0.198 χ^2/NDF : 42105.8/28

All: 26.637 ± 0.142 χ^2/NDF : 88041.5/53

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.097 ± 0.011 χ^2/NDF : 299.1/15

Left Out: -0.310 ± 0.014 χ^2/NDF : 318.1/9

Right Out: 0.091 ± 0.011 χ^2/NDF : 399.5/18

Left In: -0.402 ± 0.014 χ^2/NDF : 319.1/8

Left: -0.355 ± 0.010 χ^2/NDF : 659.3/18

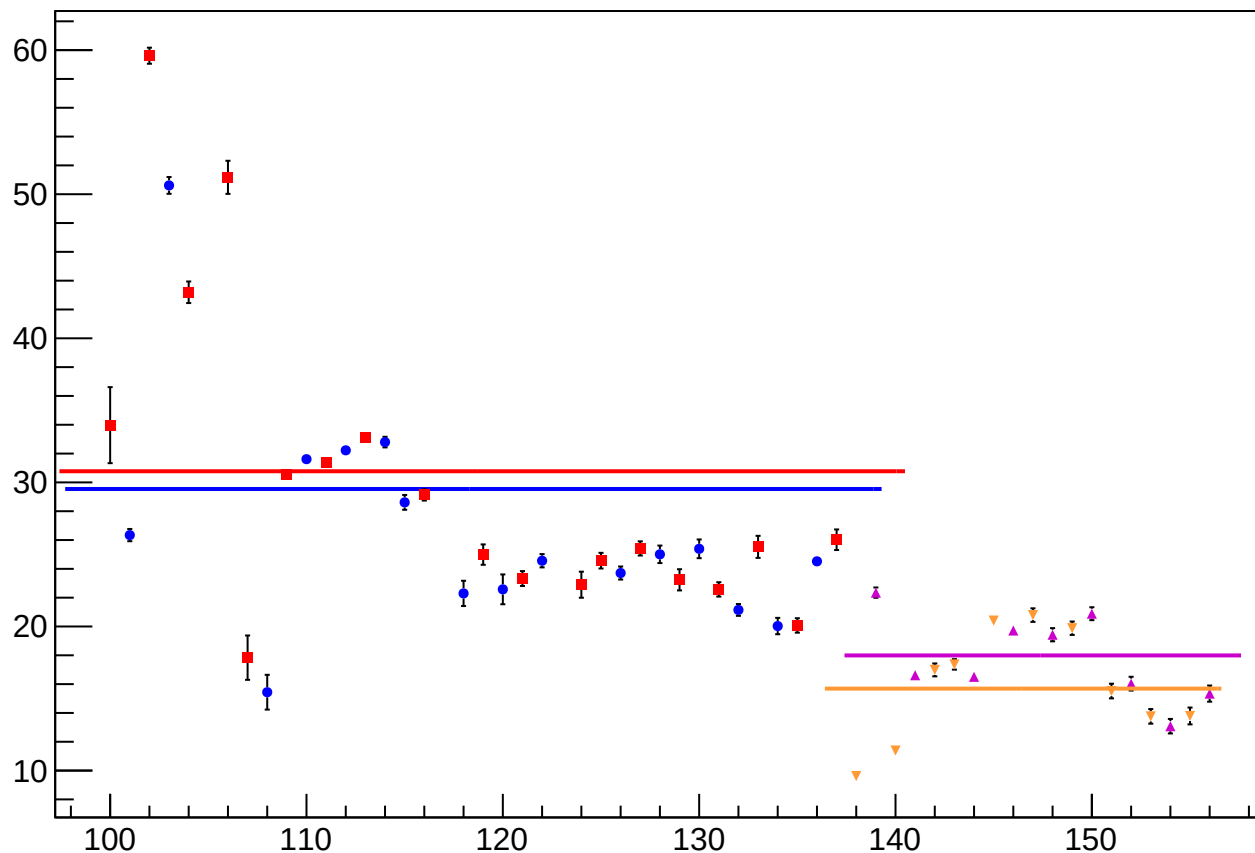
Right: 0.094 ± 0.008 χ^2/NDF : 698.7/34

In: -0.100 ± 0.009 χ^2/NDF : 1400.7/24

Out: -0.072 ± 0.009 χ^2/NDF : 1218.0/28

All: -0.086 ± 0.006 χ^2/NDF : 2624.1/53

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: 15.689 $\pm$ 0.121 χ^2 /NDF:1135.9/9

Right Out: 30.774 $\pm$ 0.080 χ^2 /NDF: 5079.2/18

Left In: 17.991 $\pm$ 0.128 χ^2 /NDF:407.4/8

Left: 16.773 $\pm$ 0.088 χ^2 /NDF: 1713.5/18

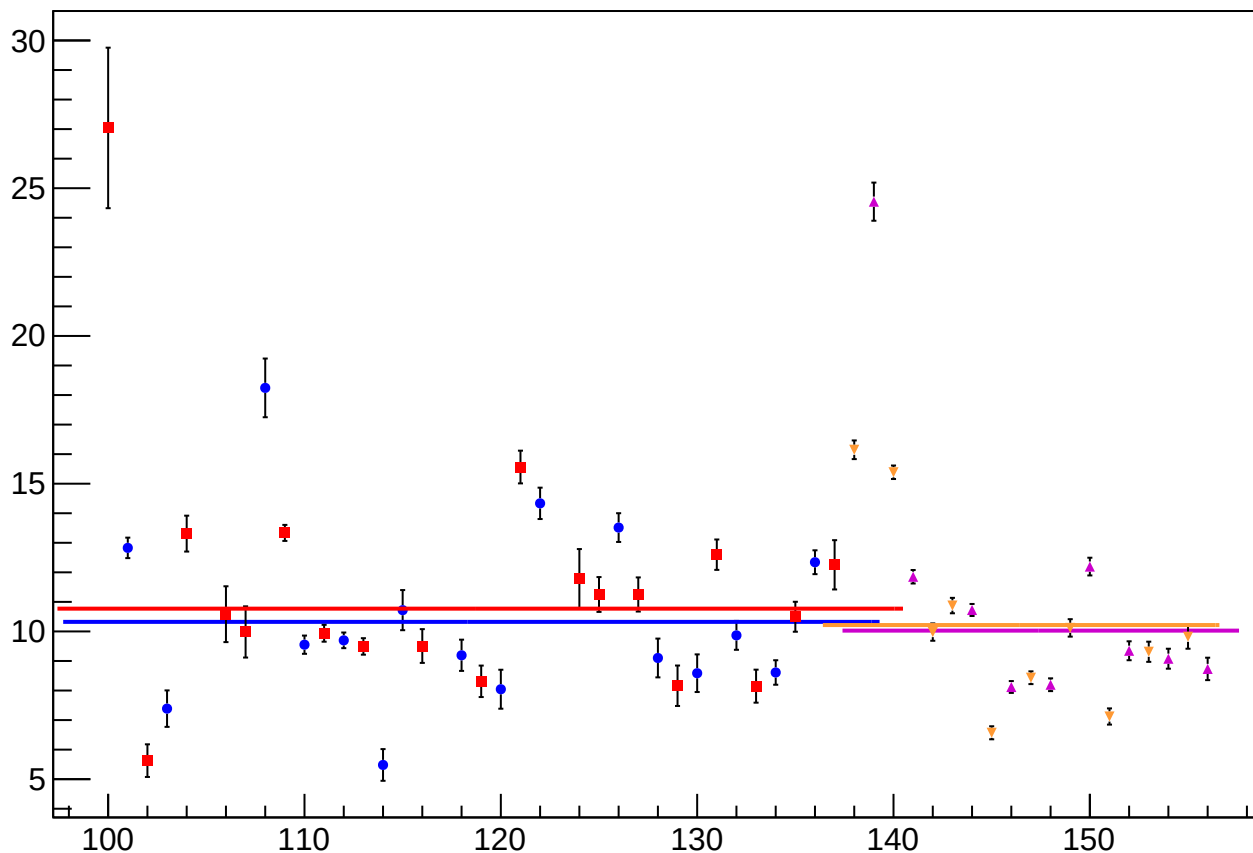
Right: 30.242 $\pm$ 0.060 χ^2 /NDF: 8553.4/34

In: 25.626 $\pm$ 0.075 χ^2 /NDF:9128.8/24

Out: 26.177 $\pm$ 0.067 χ^2 /NDF:17007.6/28

All: 25.932 $\pm$ 0.050 χ^2 /NDF: 26166.7/53

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.324+/-0.114 χ^2/NDF : 402.6/15

Left Out: 10.216+/-0.085 χ^2/NDF :1349.6/9

Right Out: 10.771+/-0.113 χ^2/NDF : 415.8/18

Left In: 10.027+/-0.088 χ^2/NDF :820.4/8

Left: 10.125+/-0.061 χ^2/NDF : 2172.3/18

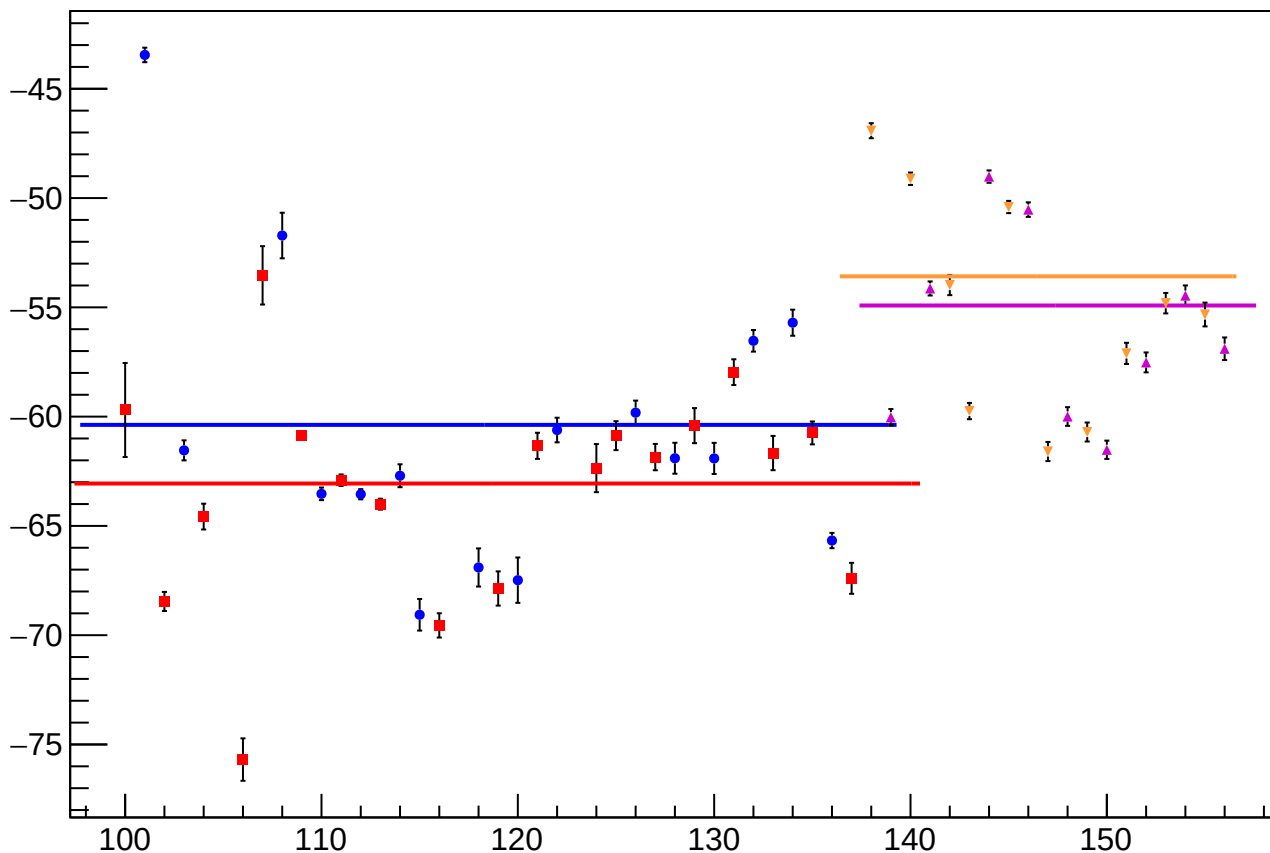
Right: 10.550+/-0.080 χ^2/NDF : 826.2/34

In: 10.138+/-0.070 χ^2/NDF :1227.2/24

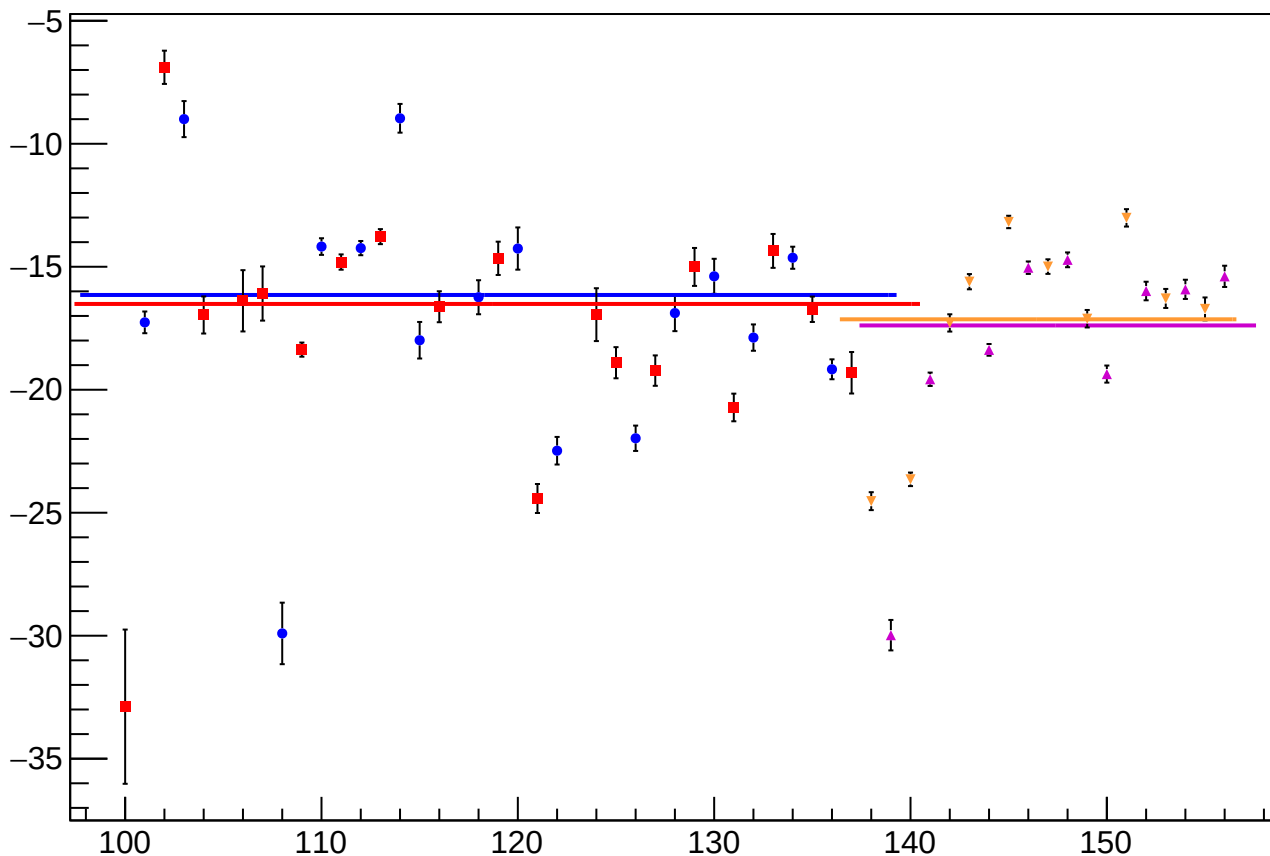
Out: 10.418+/-0.068 χ^2/NDF :1780.7/28

All: 10.282+/-0.049 χ^2/NDF : 3016.2/53

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -17.137 ± 0.103 $\chi^2/\text{NDF}: 1434.9/9$

Right Out: -16.512 ± 0.125 $\chi^2/\text{NDF}: 684.7/18$

Left In: -17.386 ± 0.107 $\chi^2/\text{NDF}: 741.7/8$

Left: -17.257 ± 0.074 $\chi^2/\text{NDF}: 2179.4/18$

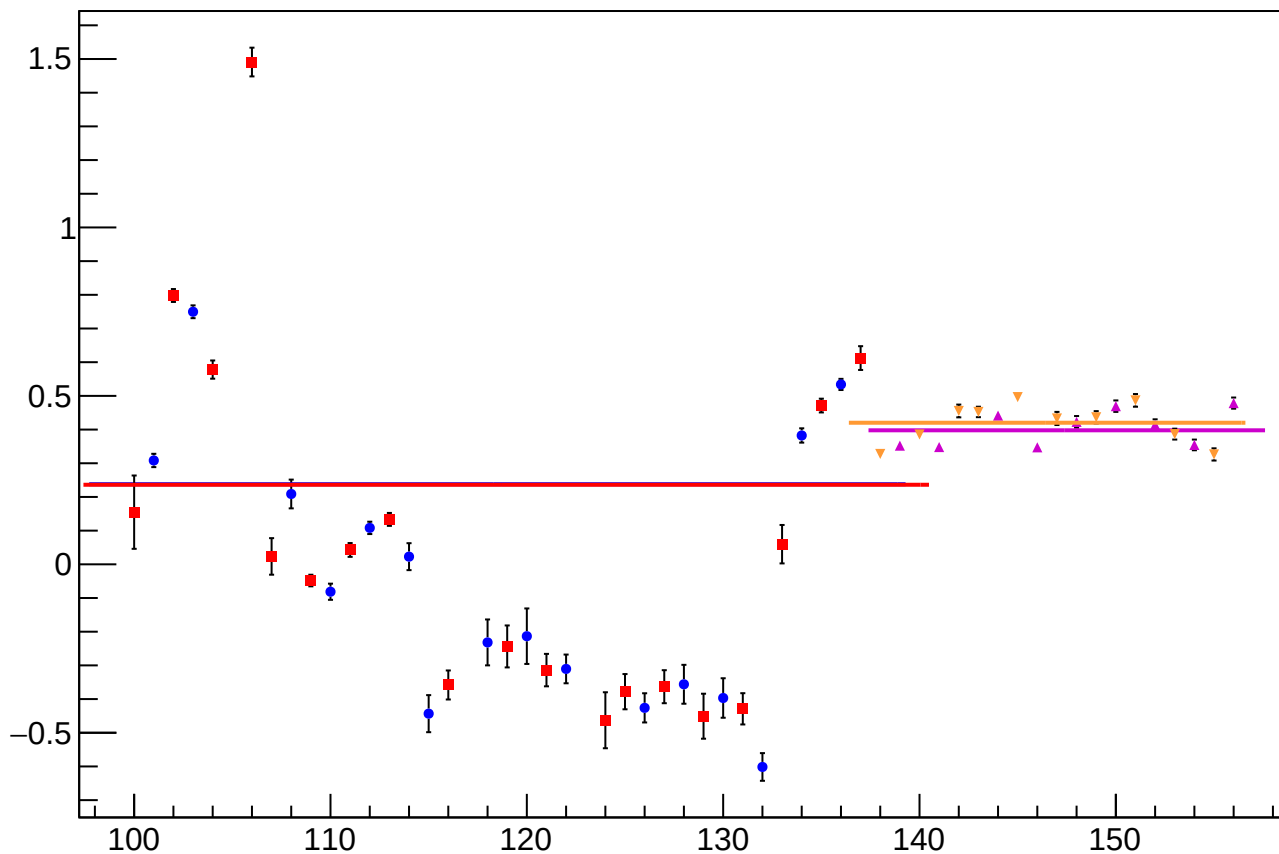
Right: -16.333 ± 0.089 $\chi^2/\text{NDF}: 1486.0/34$

In: -16.873 ± 0.082 $\chi^2/\text{NDF}: 1594.4/24$

Out: -16.882 ± 0.080 $\chi^2/\text{NDF}: 2134.4/28$

All: -16.878 ± 0.057 $\chi^2/\text{NDF}: 3728.8/53$

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: 0.420 $\pm$ 0.005 χ^2 /NDF:151.3/9

Right Out: 0.236 $\pm$ 0.007 χ^2 /NDF: 3595.0/18

Left In: 0.398 $\pm$ 0.005 χ^2 /NDF:102.4/8

Left: 0.409 $\pm$ 0.003 χ^2 /NDF: 264.0/18

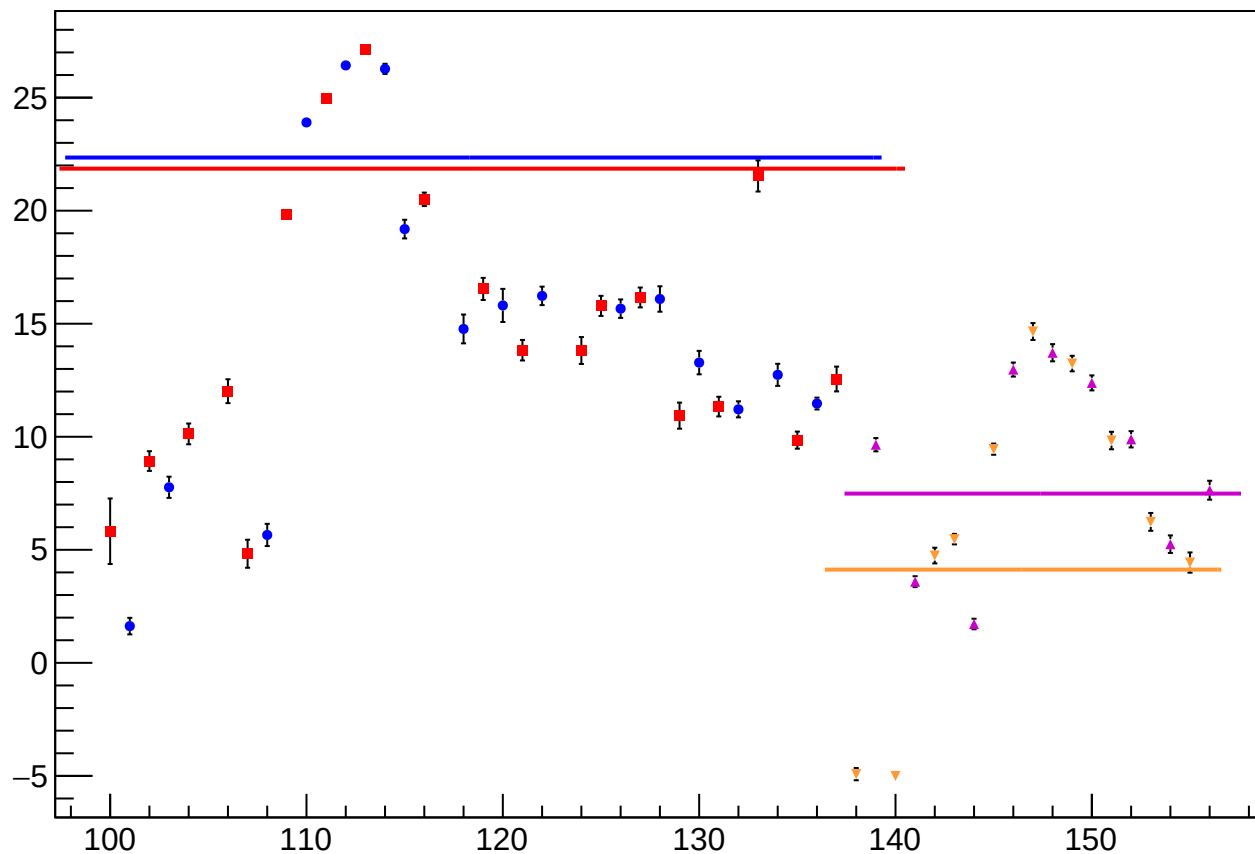
Right: 0.237 $\pm$ 0.005 χ^2 /NDF: 6227.9/34

In: 0.345 $\pm$ 0.004 χ^2 /NDF:3079.3/24

Out: 0.361 $\pm$ 0.004 χ^2 /NDF:4202.7/28

All: 0.353 $\pm$ 0.003 χ^2 /NDF: 7289.7/53

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.350 $\pm$ 0.057 χ^2 /NDF: 12336.9/15

Left Out: 4.124 $\pm$ 0.094 χ^2 /NDF: 5175.1/9

Right Out: 21.859 $\pm$ 0.046 χ^2 /NDF: 10692.4/18

Left In: 7.486 $\pm$ 0.103 χ^2 /NDF: 1801.7/8

Left: 5.652 $\pm$ 0.070 χ^2 /NDF: 7553.4/18

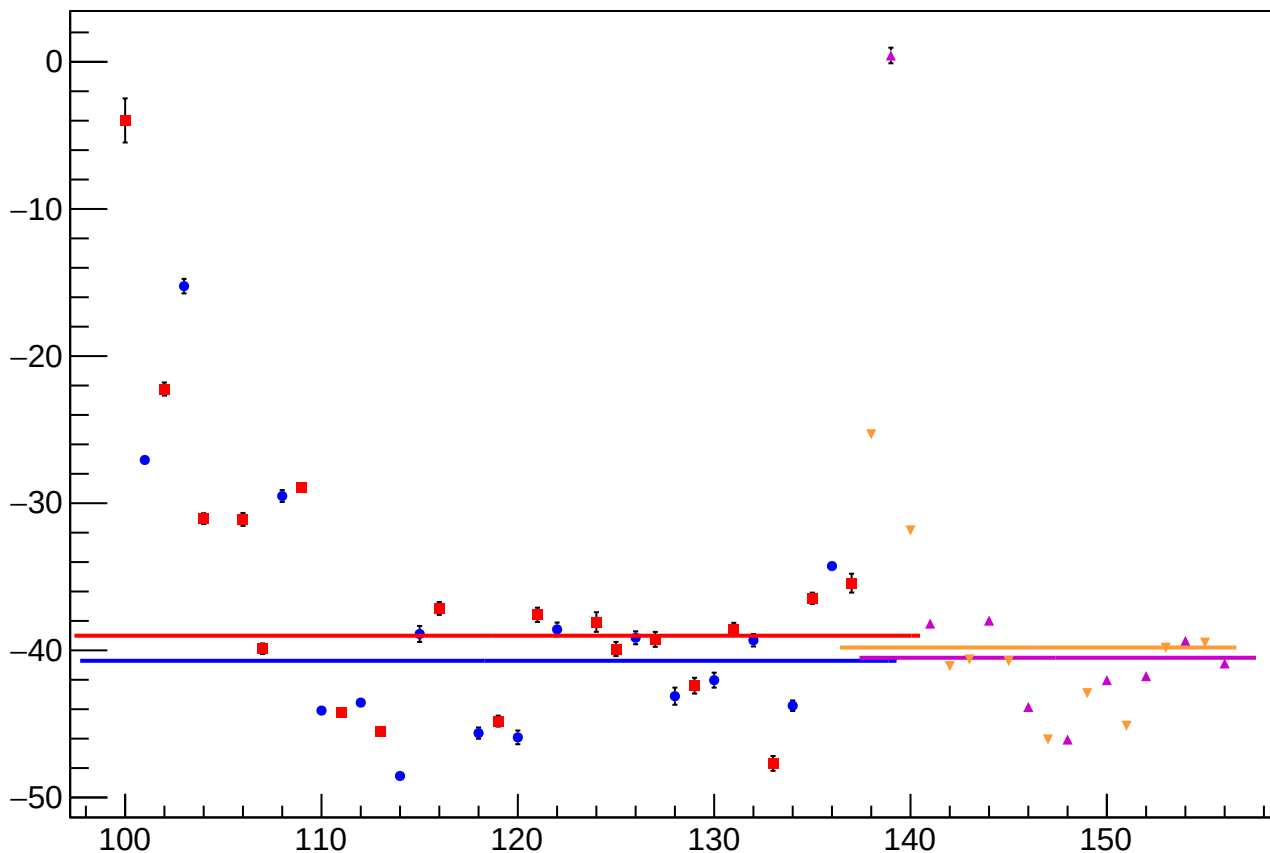
Right: 22.056 $\pm$ 0.036 χ^2 /NDF: 23074.3/34

In: 18.929 $\pm$ 0.050 χ^2 /NDF: 30038.1/24

Out: 18.420 $\pm$ 0.042 χ^2 /NDF: 44336.5/28

All: 18.630 $\pm$ 0.032 χ^2 /NDF: 74436.4/53

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.709 ± 0.076 χ^2/NDF : 7780.4/15

Left Out: -39.808 ± 0.066 χ^2/NDF : 7309.6/9

Right Out: -39.005 ± 0.071 χ^2/NDF : 10101.3/18

Left In: -40.503 ± 0.072 χ^2/NDF : 7698.4/8

Left: -40.128 ± 0.049 χ^2/NDF : 15058.5/18

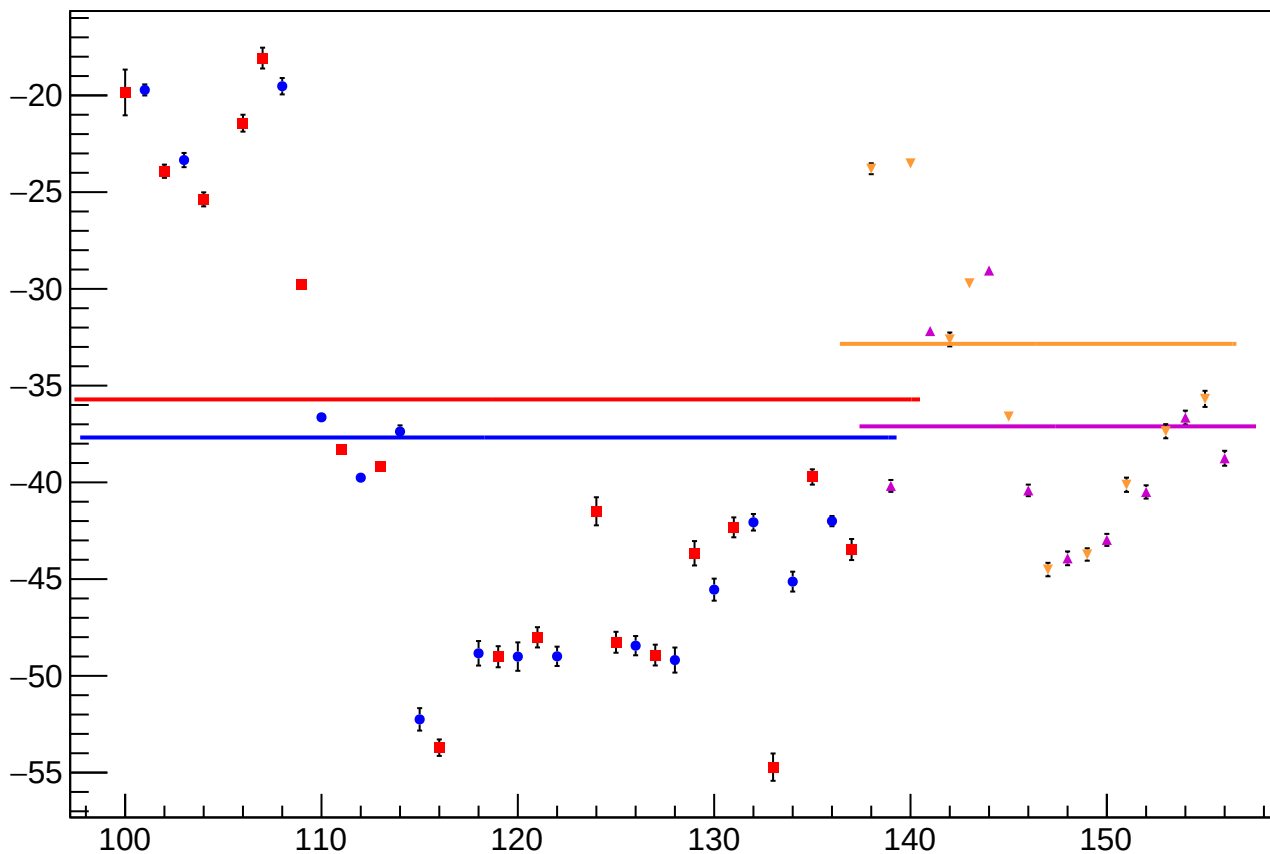
Right: -39.794 ± 0.052 χ^2/NDF : 18148.1/34

In: -40.600 ± 0.052 χ^2/NDF : 15482.6/24

Out: -39.434 ± 0.049 χ^2/NDF : 17479.2/28

All: -39.972 ± 0.036 χ^2/NDF : 33228.7/53

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -37.681 ± 0.074 $\chi^2/\text{NDF}: 10853.9/15$

Left Out: -32.841 ± 0.094 $\chi^2/\text{NDF}: 6063.9/9$

Right Out: -35.714 ± 0.064 $\chi^2/\text{NDF}: 13274.5/18$

Left In: -37.106 ± 0.102 $\chi^2/\text{NDF}: 2586.7/8$

Left: -34.813 ± 0.069 $\chi^2/\text{NDF}: 9595.6/18$

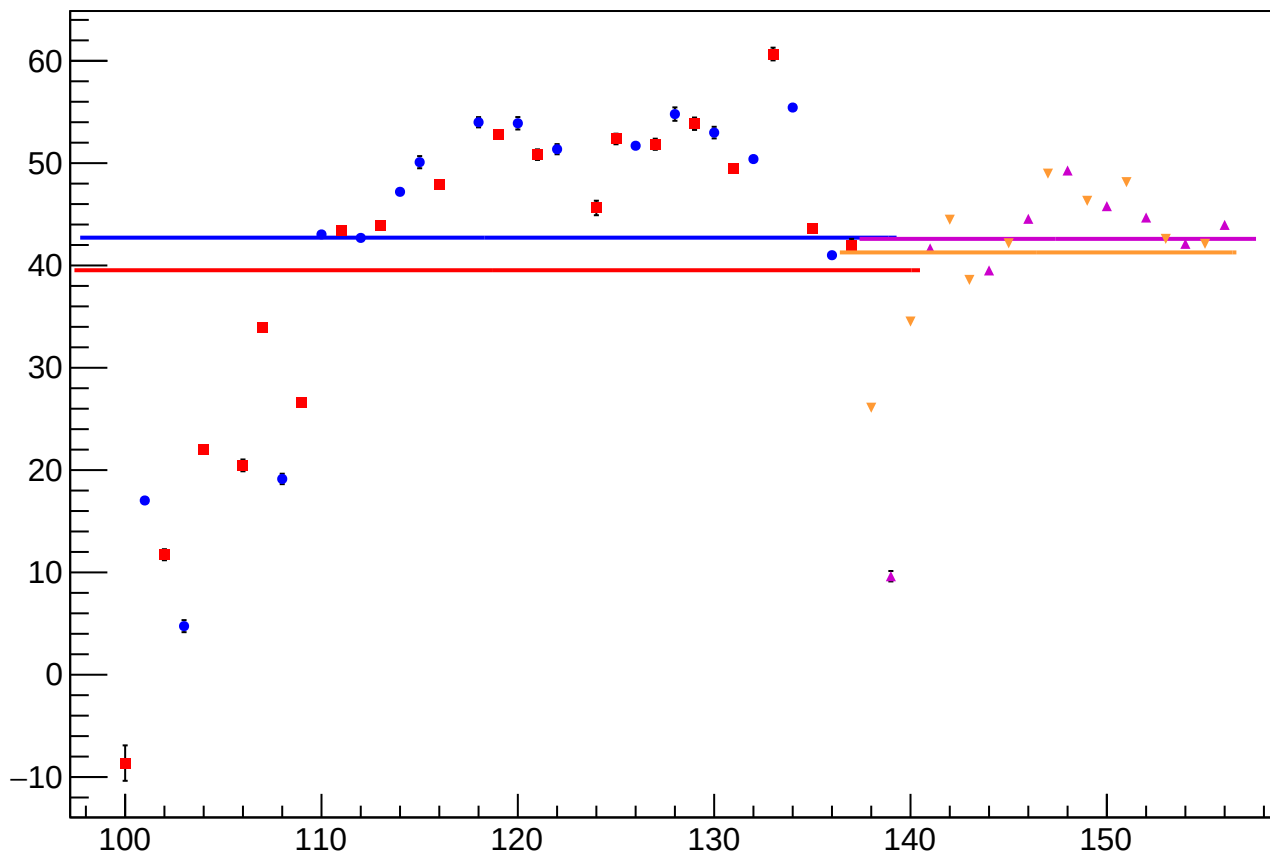
Right: -36.564 ± 0.048 $\chi^2/\text{NDF}: 24532.6/34$

In: -37.483 ± 0.060 $\chi^2/\text{NDF}: 13461.6/24$

Out: -34.802 ± 0.053 $\chi^2/\text{NDF}: 19971.3/28$

All: -35.987 ± 0.040 $\chi^2/\text{NDF}: 34557.6/53$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.718 $\pm$ 0.085 χ^2 /NDF: 14765.0/15

Left Out: 41.274 $\pm$ 0.080 χ^2 /NDF: 5977.2/9

Right Out: 39.533 $\pm$ 0.078 χ^2 /NDF: 17978.2/18

Left In: 42.599 $\pm$ 0.086 χ^2 /NDF: 5459.3/8

Left: 41.888 $\pm$ 0.059 χ^2 /NDF: 11562.8/18

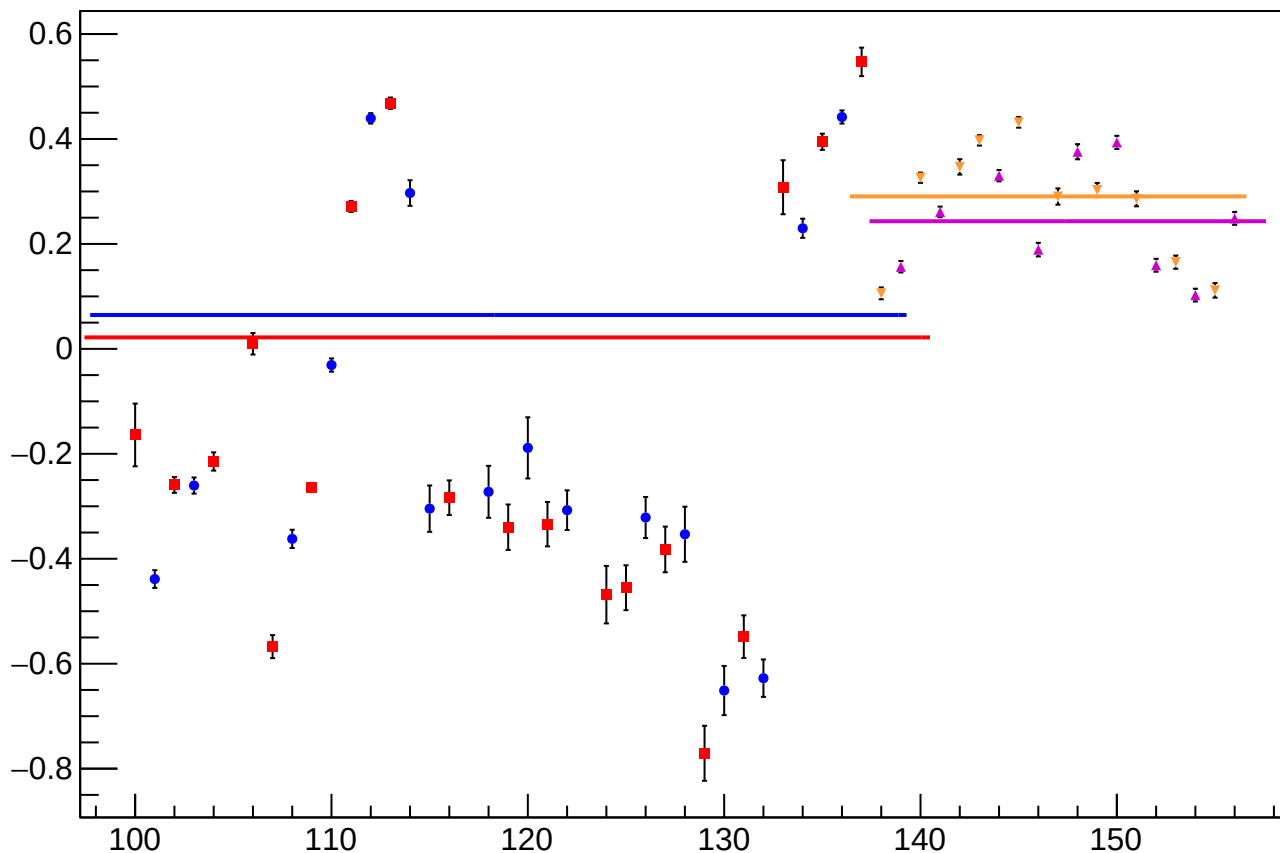
Right: 40.991 $\pm$ 0.058 χ^2 /NDF: 33503.2/34

In: 42.660 $\pm$ 0.061 χ^2 /NDF: 20225.3/24

Out: 40.380 $\pm$ 0.056 χ^2 /NDF: 24196.7/28

All: 41.430 $\pm$ 0.041 χ^2 /NDF: 45184.7/53

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: 0.291 $\pm$ 0.004 χ^2 /NDF:868.0/9

Right Out: 0.022 $\pm$ 0.004 χ^2 /NDF: 6405.3/18

Left In: 0.243 $\pm$ 0.004 χ^2 /NDF:554.8/8

Left: 0.268 $\pm$ 0.003 χ^2 /NDF: 1496.8/18

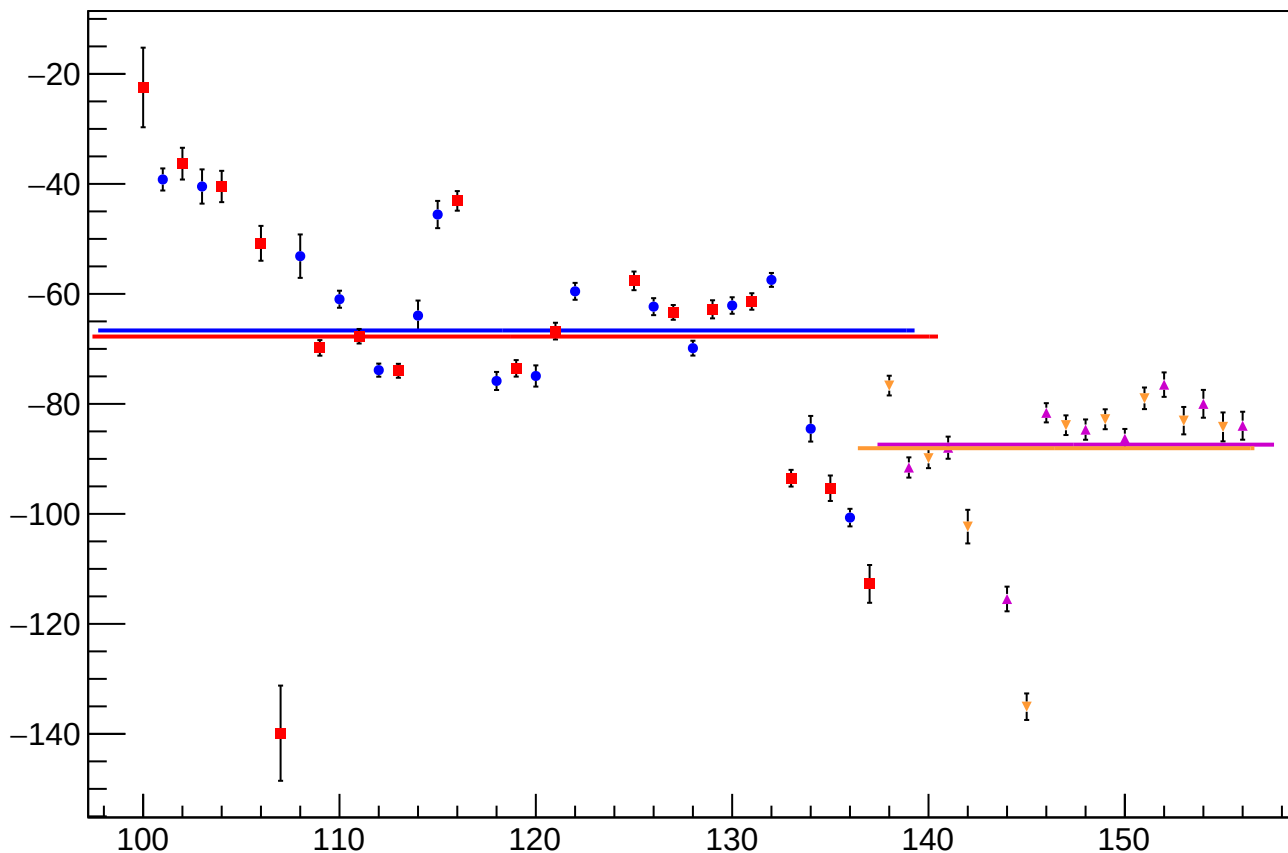
Right: 0.041 $\pm$ 0.003 χ^2 /NDF: 11945.6/34

In: 0.172 $\pm$ 0.003 χ^2 /NDF:6868.0/24

Out: 0.175 $\pm$ 0.003 χ^2 /NDF:9410.2/28

All: 0.173 $\pm$ 0.002 χ^2 /NDF: 16278.8/53

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: -88.060 ± 0.693 $\chi^2/\text{NDF}: 484.6/8$

Right Out: -67.755 ± 0.419 $\chi^2/\text{NDF}: 1255.4/17$

Left In: -87.412 ± 0.676 $\chi^2/\text{NDF}: 209.8/8$

Left: -87.728 ± 0.484 $\chi^2/\text{NDF}: 694.8/17$

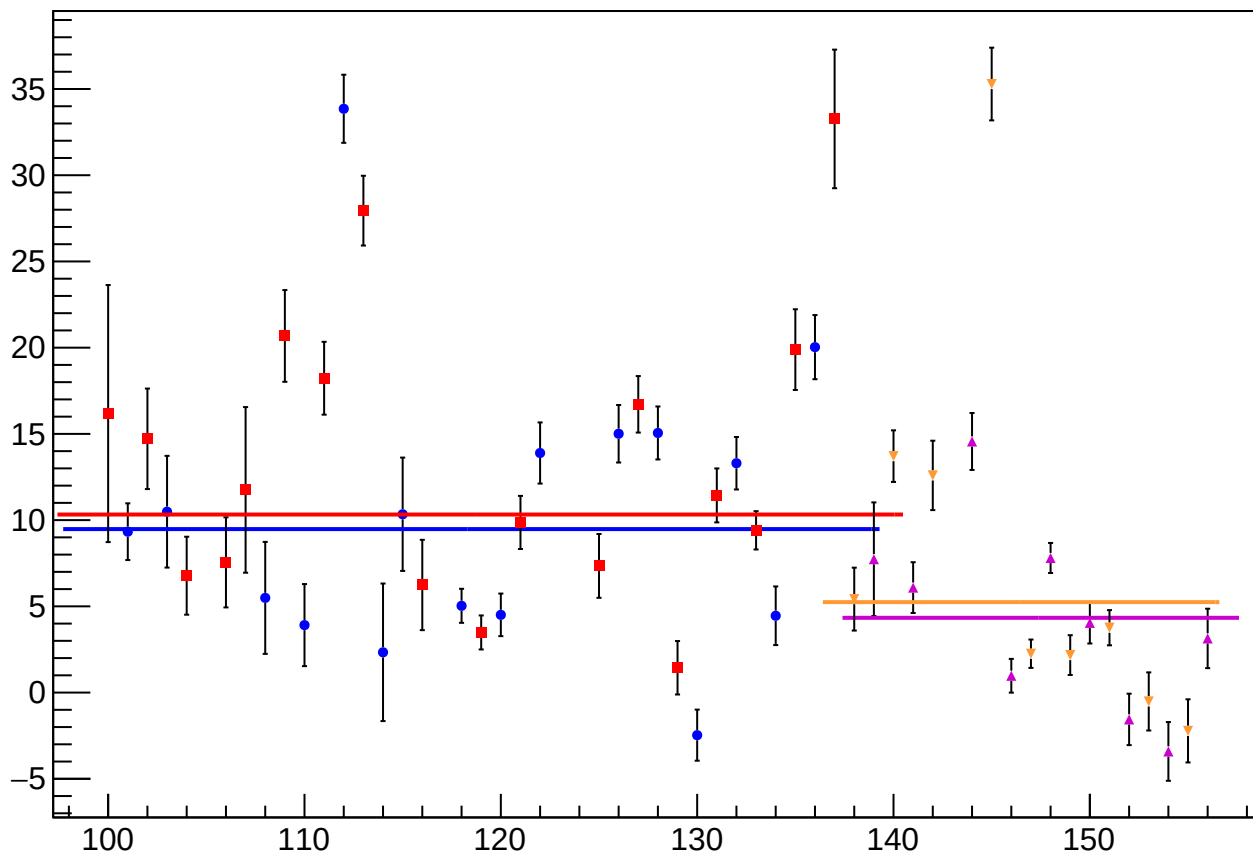
Right: -67.210 ± 0.299 $\chi^2/\text{NDF}: 2311.2/33$

In: -72.556 ± 0.360 $\chi^2/\text{NDF}: 1937.8/24$

Out: -73.199 ± 0.359 $\chi^2/\text{NDF}: 2368.2/26$

All: -72.879 ± 0.254 $\chi^2/\text{NDF}: 4307.7/51$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.480 ± 0.428 χ^2/NDF : 341.9/15

Left Out: 5.245 ± 0.445 χ^2/NDF : 299.2/8

Right Out: 10.324 ± 0.436 χ^2/NDF : 263.4/17

Left In: 4.335 ± 0.442 χ^2/NDF : 105.3/8

Left: 4.788 ± 0.314 χ^2/NDF : 406.6/17

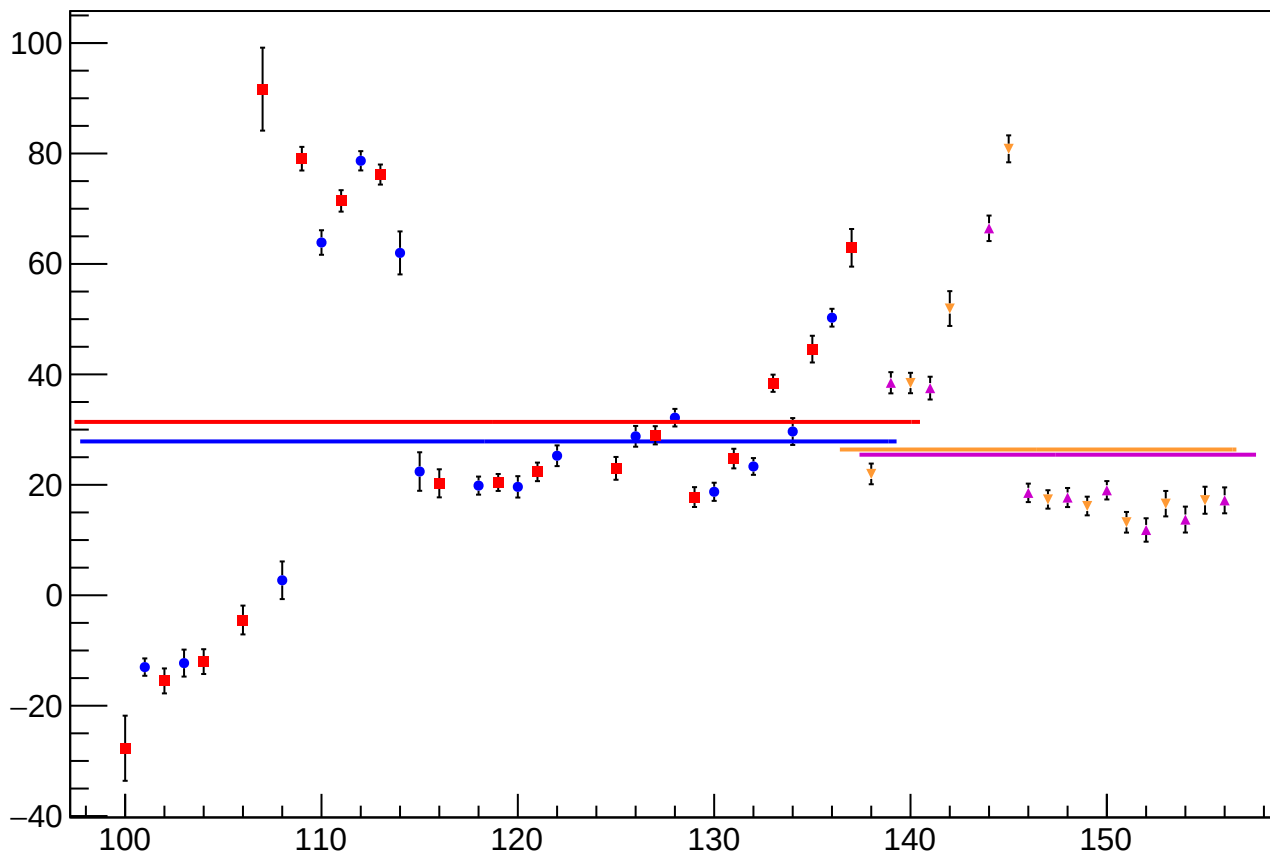
Right: 9.895 ± 0.305 χ^2/NDF : 607.3/33

In: 6.991 ± 0.308 χ^2/NDF : 517.1/24

Out: 7.837 ± 0.311 χ^2/NDF : 629.2/26

All: 7.409 ± 0.219 χ^2/NDF : 1150.0/51

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: 26.397 $\pm$ 0.675 χ^2 /NDF: 759.3/8

Right Out: 31.394 $\pm$ 0.488 χ^2 /NDF: 3011.4/17

Left In: 25.456 $\pm$ 0.655 χ^2 /NDF: 526.5/8

Left: 25.912 $\pm$ 0.470 χ^2 /NDF: 1286.8/17

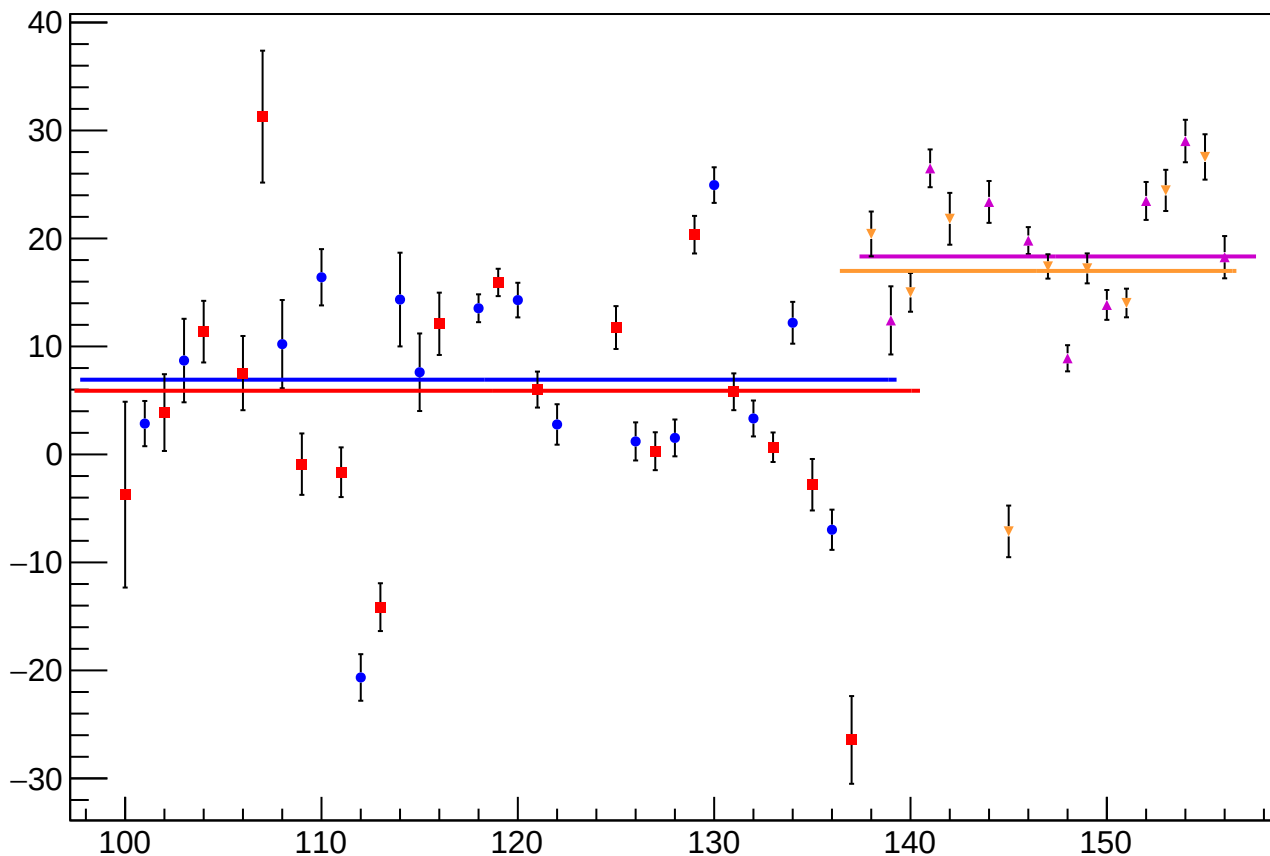
Right: 29.608 $\pm$ 0.343 χ^2 /NDF: 5511.9/33

In: 27.014 $\pm$ 0.388 χ^2 /NDF: 3009.2/24

Out: 29.680 $\pm$ 0.395 χ^2 /NDF: 3806.7/26

All: 28.324 $\pm$ 0.277 χ^2 /NDF: 6839.1/51

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.922 ± 0.496 χ^2/NDF : 444.3/15

Left Out: 16.994 ± 0.553 χ^2/NDF : 155.5/8

Right Out: 5.896 ± 0.502 χ^2/NDF : 367.7/17

Left In: 18.334 ± 0.544 χ^2/NDF : 142.6/8

Left: 17.675 ± 0.388 χ^2/NDF : 301.1/17

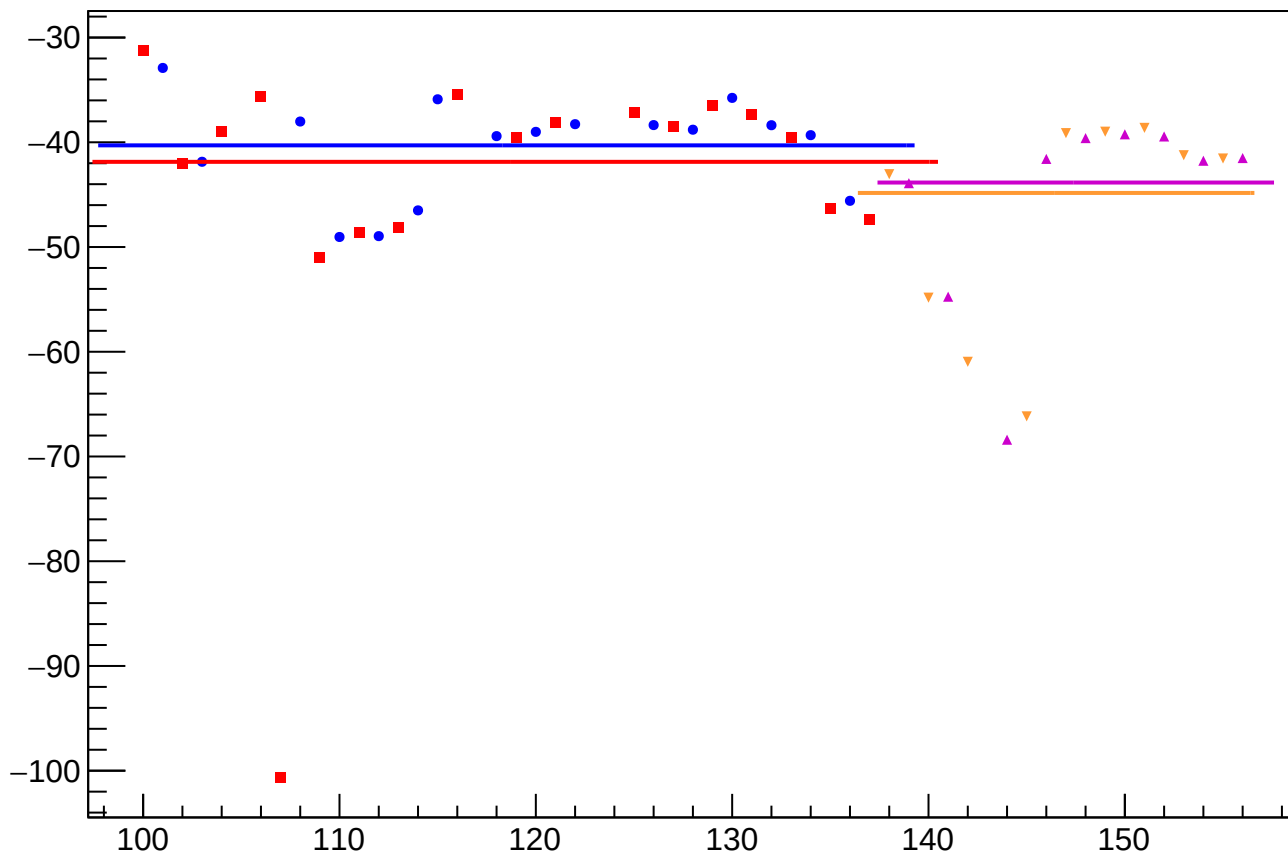
Right: 6.415 ± 0.353 χ^2/NDF : 814.1/33

In: 12.101 ± 0.366 χ^2/NDF : 827.6/24

Out: 10.905 ± 0.372 χ^2/NDF : 744.0/26

All: 11.512 ± 0.261 χ^2/NDF : 1576.9/51

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.293+/-0.031 χ^2/NDF : 20663.5/15

Left Out: -44.837+/-0.027 χ^2/NDF :103490.8/8

Right Out: -41.867+/-0.032 χ^2/NDF : 58734.8/17

Left In: -43.844+/-0.025 χ^2/NDF :86976.9/8

Left: -44.306+/-0.018 χ^2/NDF : 191189.4/17

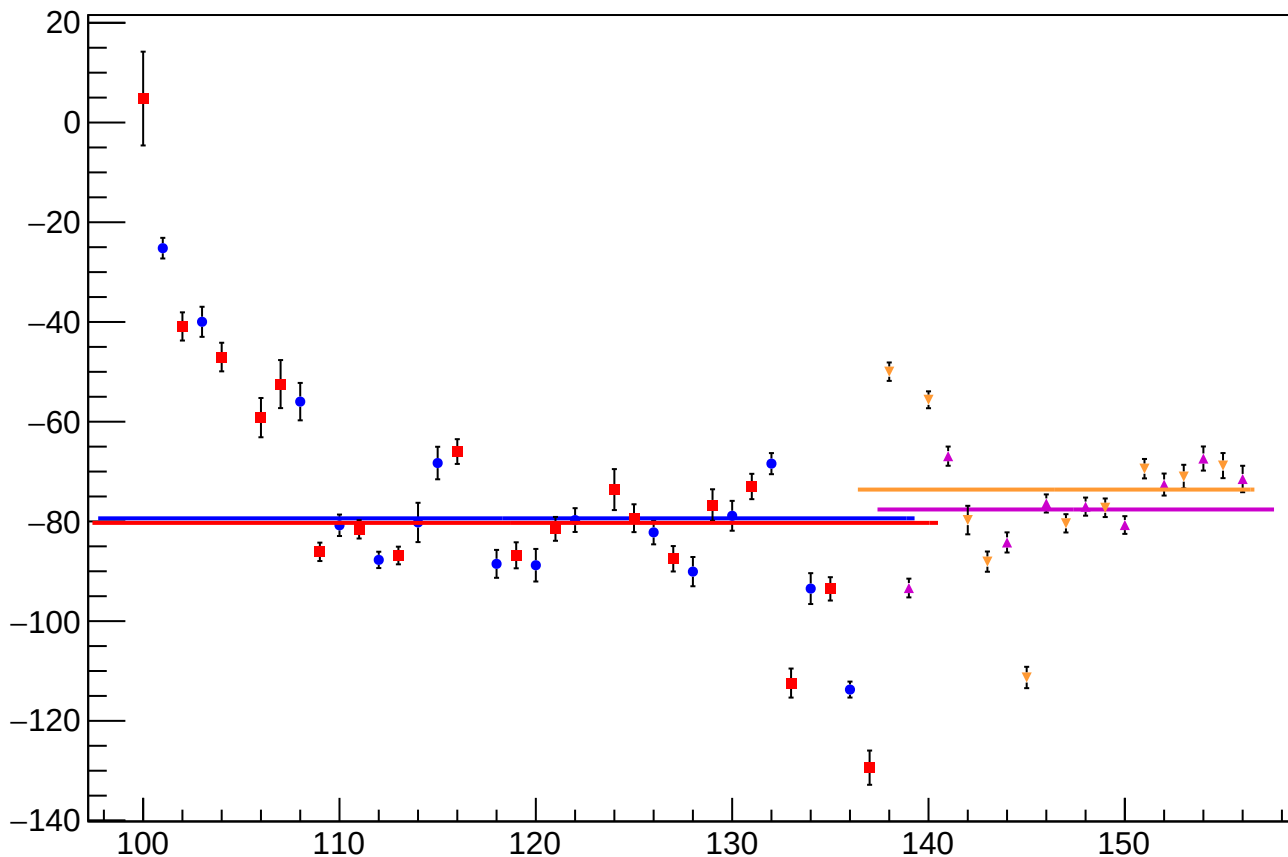
Right: -41.063+/-0.022 χ^2/NDF : 80626.6/33

In: -42.453+/-0.020 χ^2/NDF :115418.6/24

Out: -43.605+/-0.021 χ^2/NDF :167232.6/26

All: -43.000+/-0.014 χ^2/NDF : 284283.2/51

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -79.382 ± 0.611 χ^2/NDF : 1475.9/15

Left Out: -73.614 ± 0.644 χ^2/NDF : 669.6/9

Right Out: -80.294 ± 0.604 χ^2/NDF : 914.7/18

Left In: -77.605 ± 0.668 χ^2/NDF : 143.8/8

Left: -75.536 ± 0.464 χ^2/NDF : 831.9/18

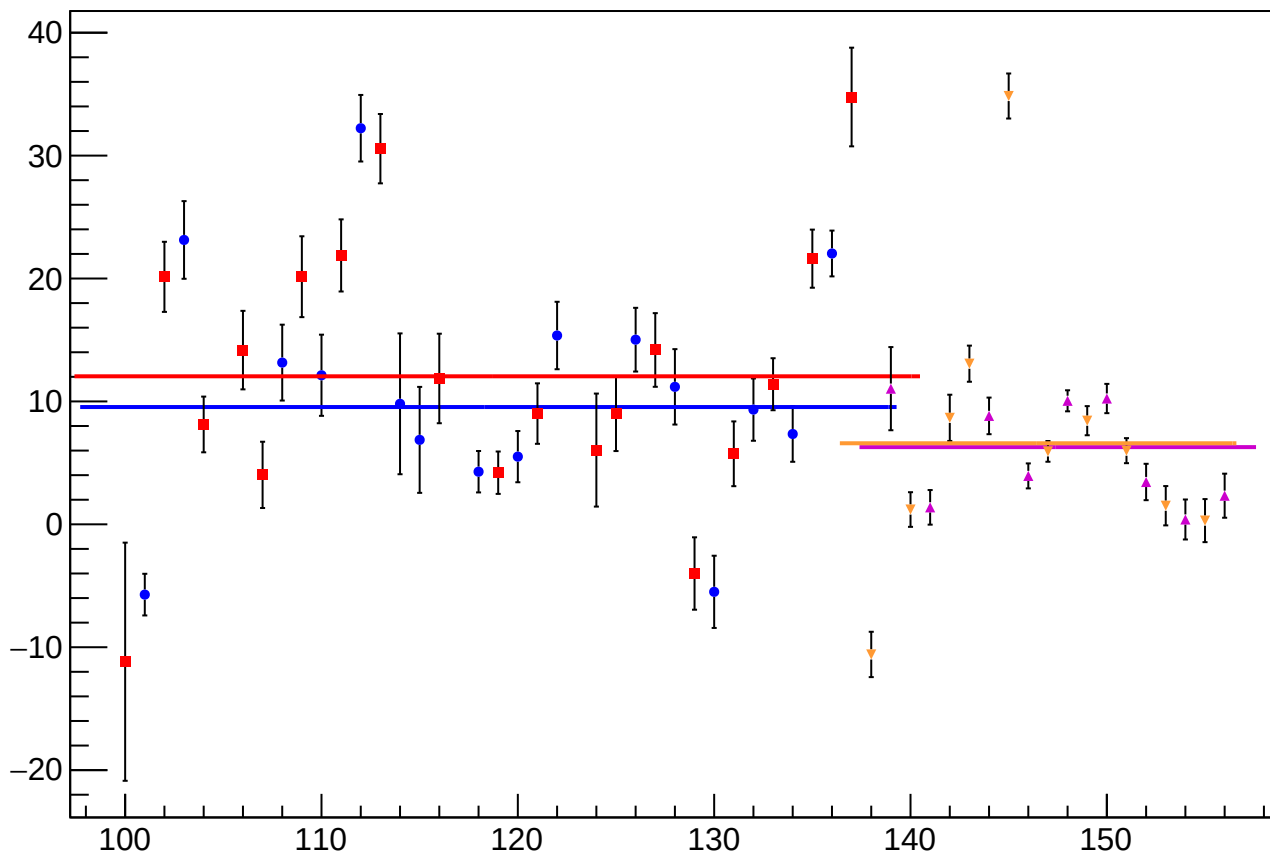
Right: -79.844 ± 0.430 χ^2/NDF : 2391.7/34

In: -78.573 ± 0.451 χ^2/NDF : 1623.5/24

Out: -77.168 ± 0.441 χ^2/NDF : 1641.5/28

All: -77.854 ± 0.315 χ^2/NDF : 3270.0/53

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.543 ± 0.621 χ^2/NDF : 267.1/15

Left Out: 6.595 ± 0.421 χ^2/NDF : 386.2/9

Right Out: 12.044 ± 0.637 χ^2/NDF : 195.8/18

Left In: 6.282 ± 0.437 χ^2/NDF : 74.3/8

Left: 6.444 ± 0.303 χ^2/NDF : 460.8/18

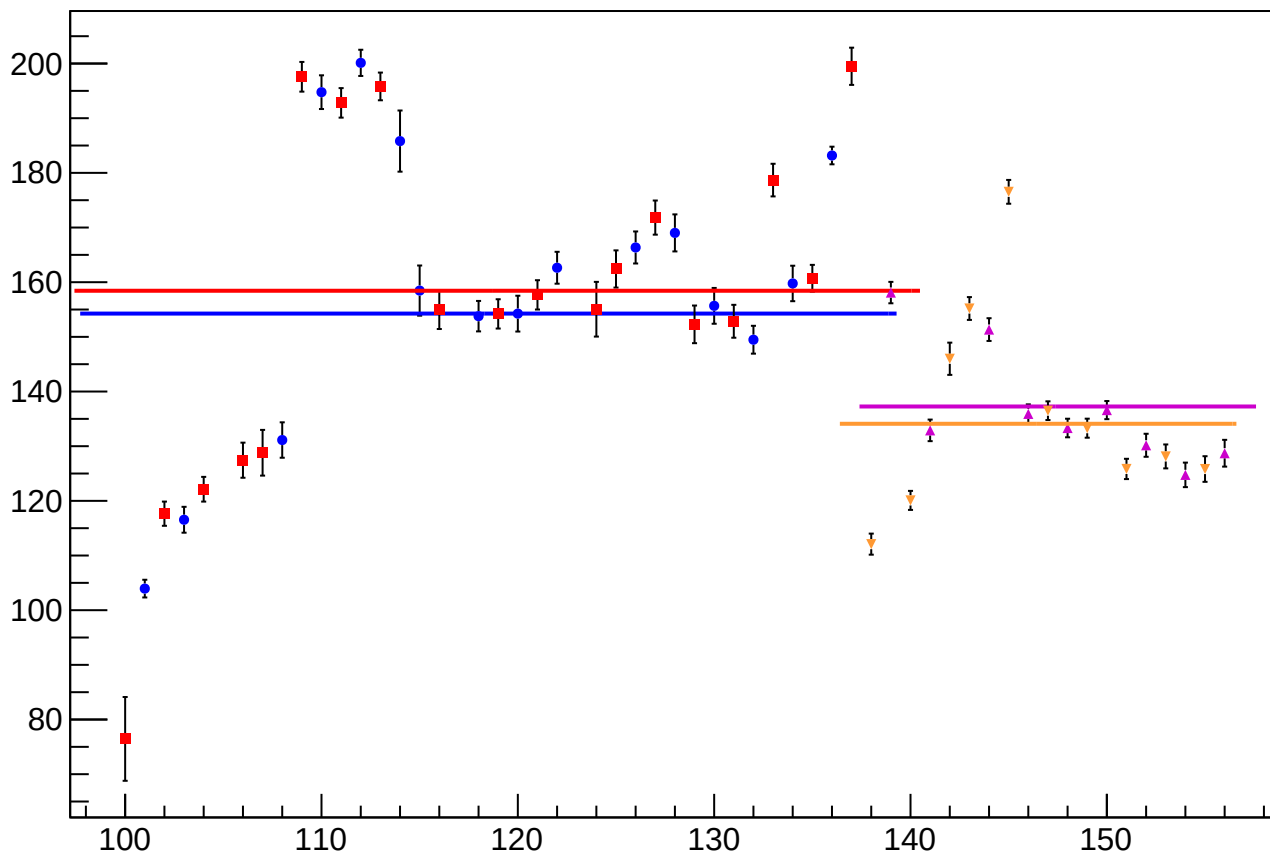
Right: 10.762 ± 0.445 χ^2/NDF : 470.8/34

In: 7.363 ± 0.358 χ^2/NDF : 359.8/24

Out: 8.252 ± 0.351 χ^2/NDF : 633.0/28

All: 7.816 ± 0.251 χ^2/NDF : 995.9/53

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 154.260 ± 0.662 χ^2/NDF : 2213.7/15

Left Out: 134.100 ± 0.631 χ^2/NDF : 735.4/9

Right Out: 158.435 ± 0.683 χ^2/NDF : 1664.2/18

Left In: 137.263 ± 0.648 χ^2/NDF : 224.6/8

Left: 135.640 ± 0.452 χ^2/NDF : 972.2/18

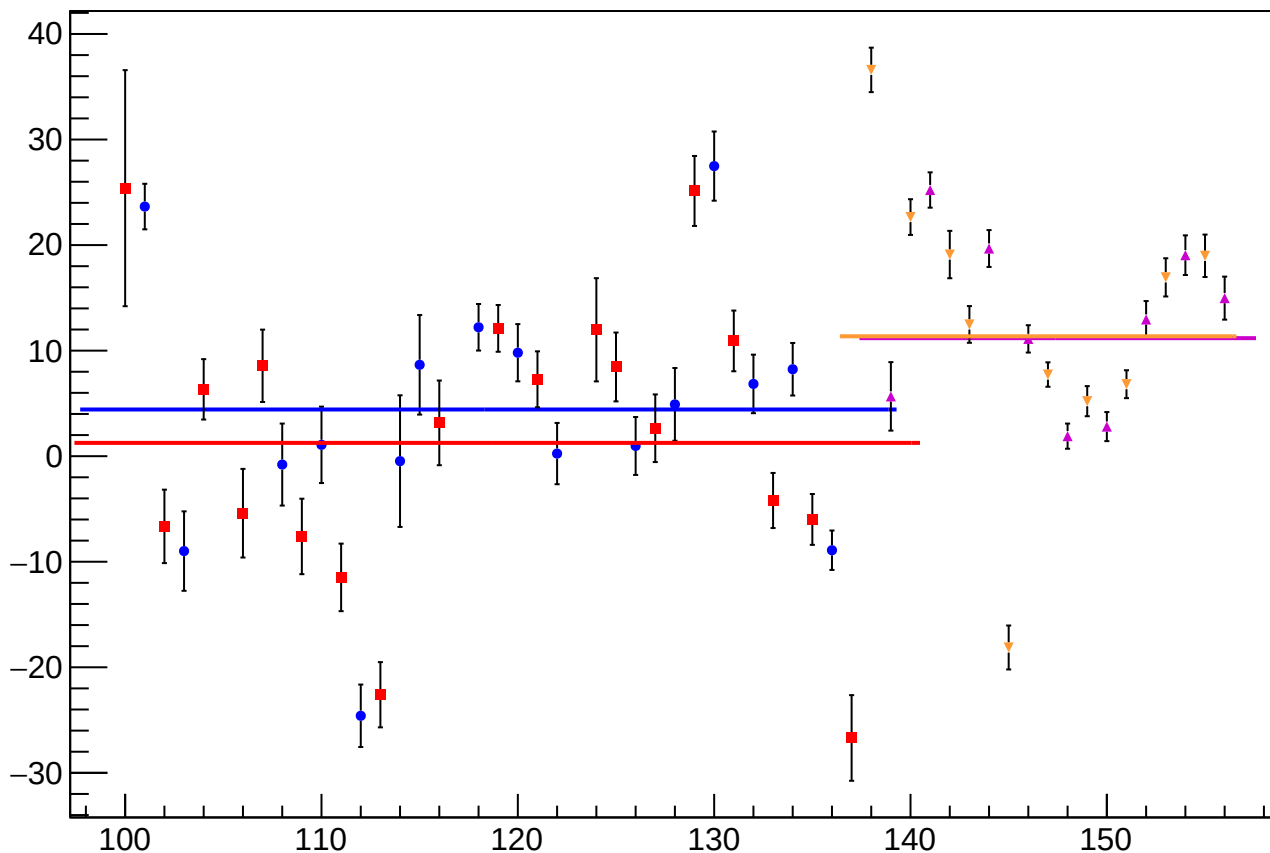
Right: 156.282 ± 0.475 χ^2/NDF : 3897.2/34

In: 145.587 ± 0.463 χ^2/NDF : 2775.0/24

Out: 145.321 ± 0.464 χ^2/NDF : 3084.6/28

All: 145.454 ± 0.328 χ^2/NDF : 5859.7/53

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.424 ± 0.714 χ^2/NDF : 316.1/15

Left Out: 11.358 ± 0.520 χ^2/NDF : 465.0/9

Right Out: 1.260 ± 0.732 χ^2/NDF : 264.9/18

Left In: 11.182 ± 0.538 χ^2/NDF : 216.5/8

Left: 11.273 ± 0.374 χ^2/NDF : 681.6/18

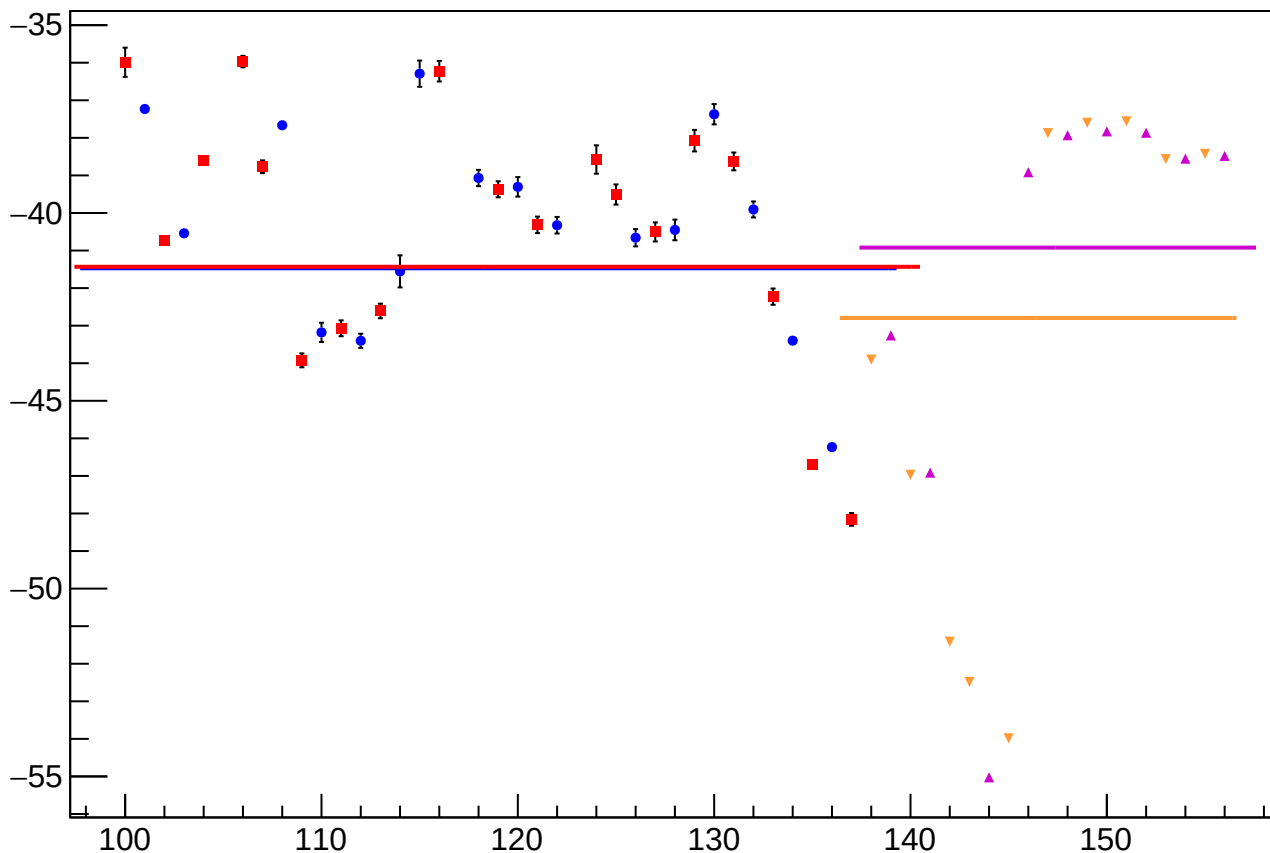
Right: 2.881 ± 0.511 χ^2/NDF : 590.5/34

In: 8.737 ± 0.429 χ^2/NDF : 589.8/24

Out: 7.969 ± 0.424 χ^2/NDF : 856.4/28

All: 8.348 ± 0.302 χ^2/NDF : 1447.8/53

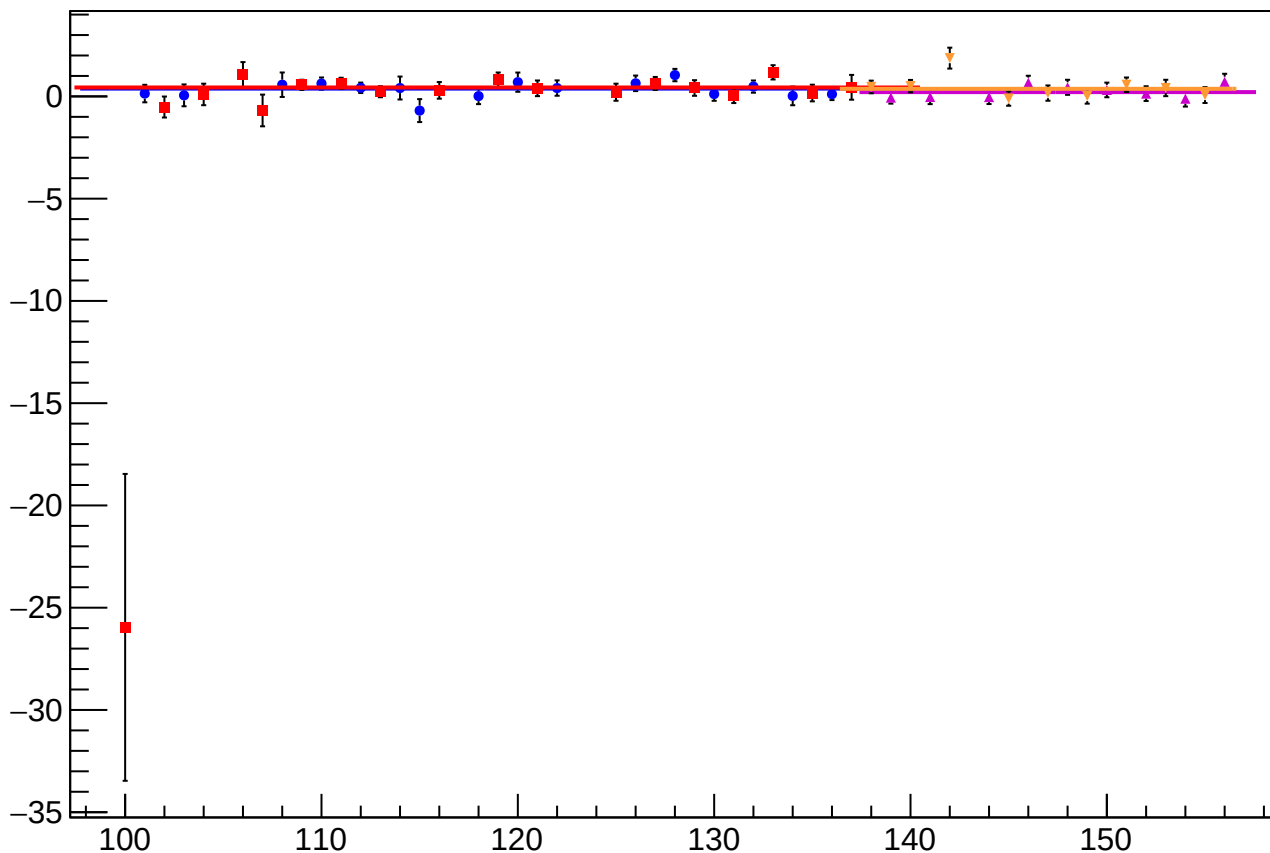
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.472 ± 0.038 χ^2/NDF : 7912.0/15
 Left Out: -42.796 ± 0.025 χ^2/NDF : 58135.7/9
 Right Out: -41.433 ± 0.040 χ^2/NDF : 8225.4/18
 Left In: -40.922 ± 0.025 χ^2/NDF : 37849.4/8

Left: -41.847 ± 0.018 χ^2/NDF : 98754.1/18
 Right: -41.453 ± 0.027 χ^2/NDF : 16137.9/34
 In: -41.087 ± 0.021 χ^2/NDF : 45907.0/24
 Out: -42.399 ± 0.021 χ^2/NDF : 67204.3/28
 All: -41.730 ± 0.015 χ^2/NDF : 115037.1/53

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.382 ± 0.092 $\chi^2/\text{NDF}: 14.0/15$

Left Out: 0.372 ± 0.121 $\chi^2/\text{NDF}: 12.9/8$

Right Out: 0.436 ± 0.090 $\chi^2/\text{NDF}: 29.0/17$

Left In: 0.210 ± 0.117 $\chi^2/\text{NDF}: 6.5/8$

Left: 0.288 ± 0.084 $\chi^2/\text{NDF}: 20.3/17$

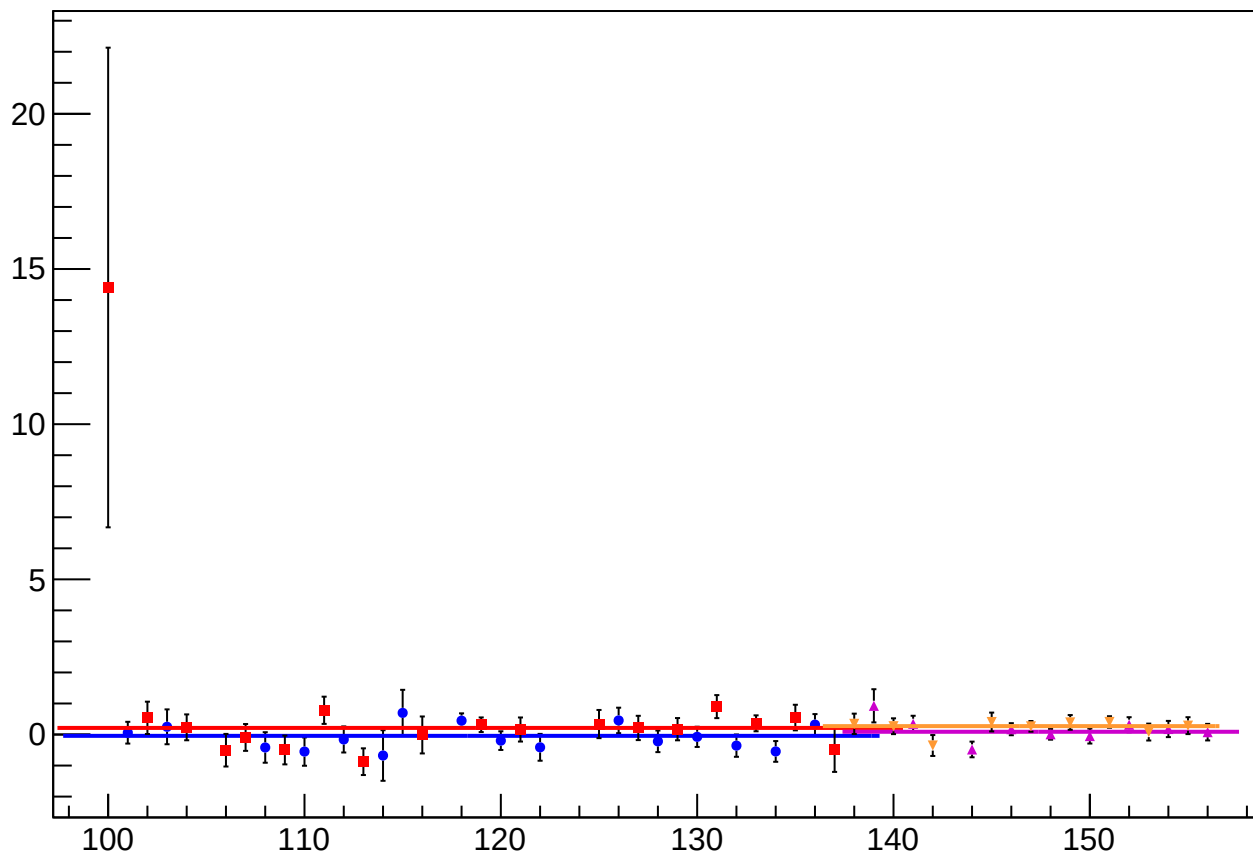
Right: 0.410 ± 0.064 $\chi^2/\text{NDF}: 43.2/33$

In: 0.316 ± 0.072 $\chi^2/\text{NDF}: 21.8/24$

Out: 0.413 ± 0.072 $\chi^2/\text{NDF}: 42.0/26$

All: 0.365 ± 0.051 $\chi^2/\text{NDF}: 64.8/51$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.043 ± 0.094 χ^2/NDF : 15.0/15

Left Out: 0.271 ± 0.081 χ^2/NDF : 5.0/8

Right Out: 0.213 ± 0.095 χ^2/NDF : 22.4/17

Left In: 0.088 ± 0.080 χ^2/NDF : 10.3/8

Left: 0.178 ± 0.057 χ^2/NDF : 17.8/17

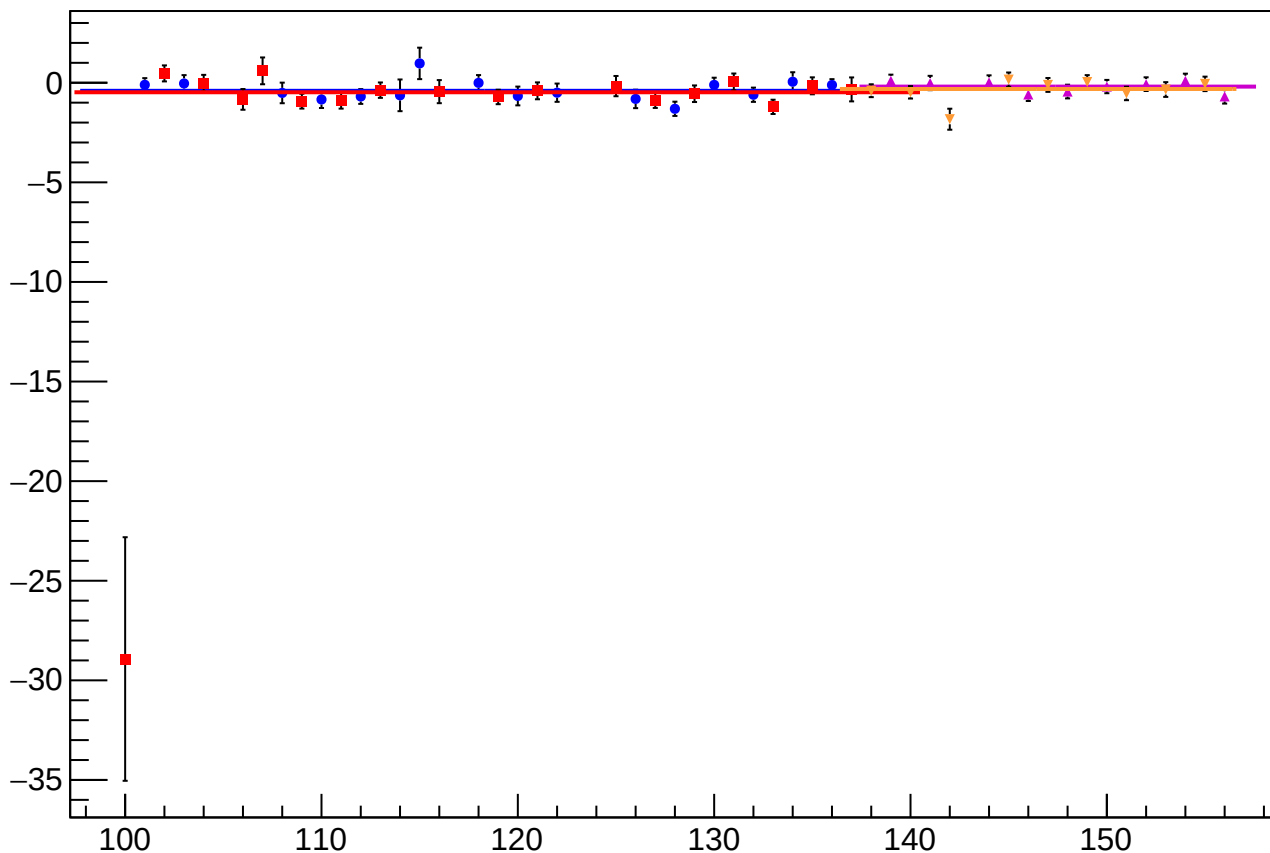
Right: 0.084 ± 0.067 χ^2/NDF : 41.1/33

In: 0.034 ± 0.061 χ^2/NDF : 26.4/24

Out: 0.246 ± 0.062 χ^2/NDF : 27.6/26

All: 0.139 ± 0.043 χ^2/NDF : 60.0/51

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.406 ± 0.103 χ^2/NDF : 17.8/15

Left Out: -0.313 ± 0.118 χ^2/NDF : 12.6/8

Right Out: -0.478 ± 0.104 χ^2/NDF : 42.3/17

Left In: -0.194 ± 0.114 χ^2/NDF : 6.1/8

Left: -0.251 ± 0.082 χ^2/NDF : 19.3/17

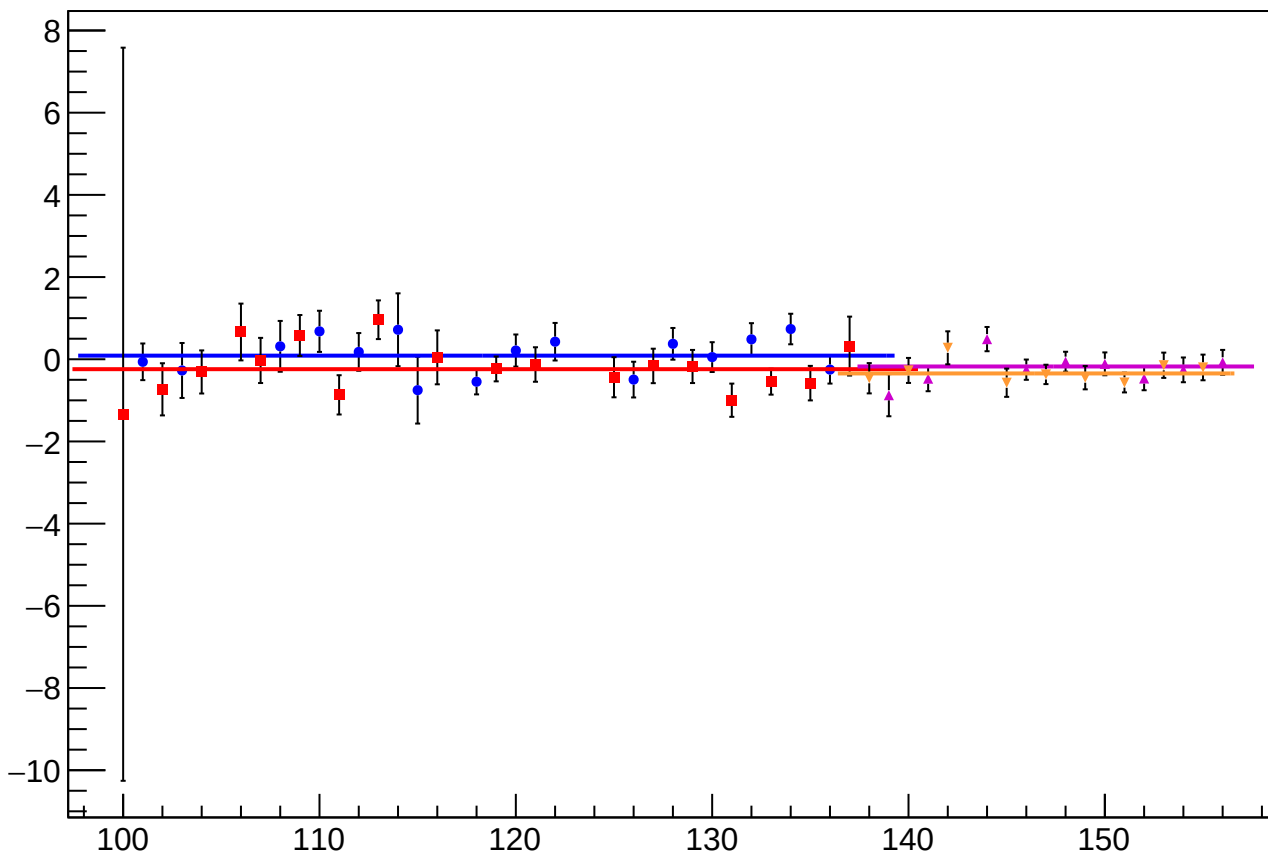
Right: -0.441 ± 0.073 χ^2/NDF : 60.3/33

In: -0.310 ± 0.076 χ^2/NDF : 25.8/24

Out: -0.406 ± 0.078 χ^2/NDF : 56.0/26

All: -0.357 ± 0.055 χ^2/NDF : 82.6/51

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.088 ± 0.108 $\chi^2/\text{NDF}: 15.9/15$

Left Out: -0.345 ± 0.099 $\chi^2/\text{NDF}: 4.6/8$

Right Out: -0.241 ± 0.110 $\chi^2/\text{NDF}: 19.6/17$

Left In: -0.176 ± 0.097 $\chi^2/\text{NDF}: 9.5/8$

Left: -0.258 ± 0.069 $\chi^2/\text{NDF}: 15.6/17$

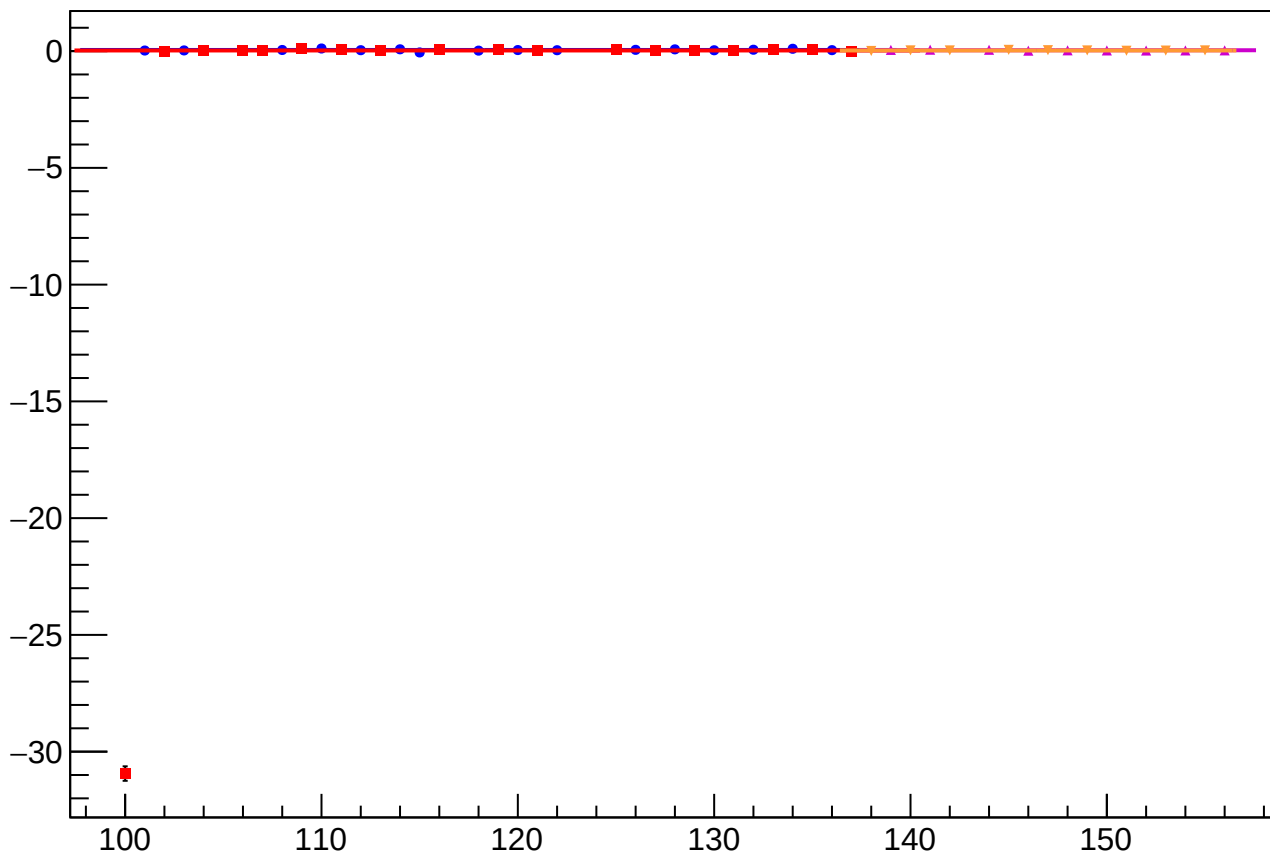
Right: -0.075 ± 0.077 $\chi^2/\text{NDF}: 40.0/33$

In: -0.059 ± 0.072 $\chi^2/\text{NDF}: 28.7/24$

Out: -0.298 ± 0.074 $\chi^2/\text{NDF}: 24.7/26$

All: -0.176 ± 0.052 $\chi^2/\text{NDF}: 58.8/51$

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: 0.028 $\pm$ 0.005 χ^2 /NDF: 7.9/8

Right Out: 0.028 $\pm$ 0.006 χ^2 /NDF: 10020.9/17

Left In: 0.037 $\pm$ 0.004 χ^2 /NDF: 9.7/8

Left: 0.033 $\pm$ 0.003 χ^2 /NDF: 19.8/17

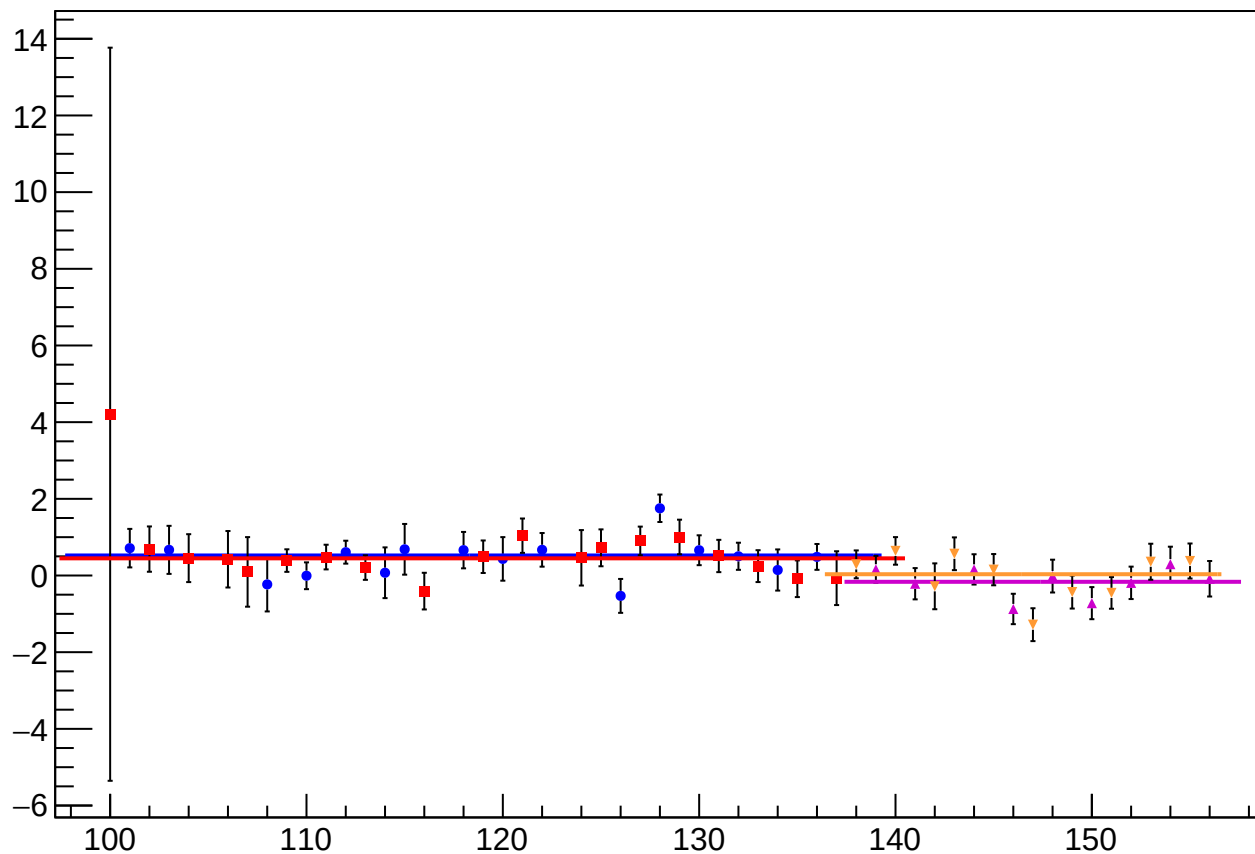
Right: 0.038 $\pm$ 0.004 χ^2 /NDF: 10045.5/33

In: 0.041 $\pm$ 0.004 χ^2 /NDF: 31.1/24

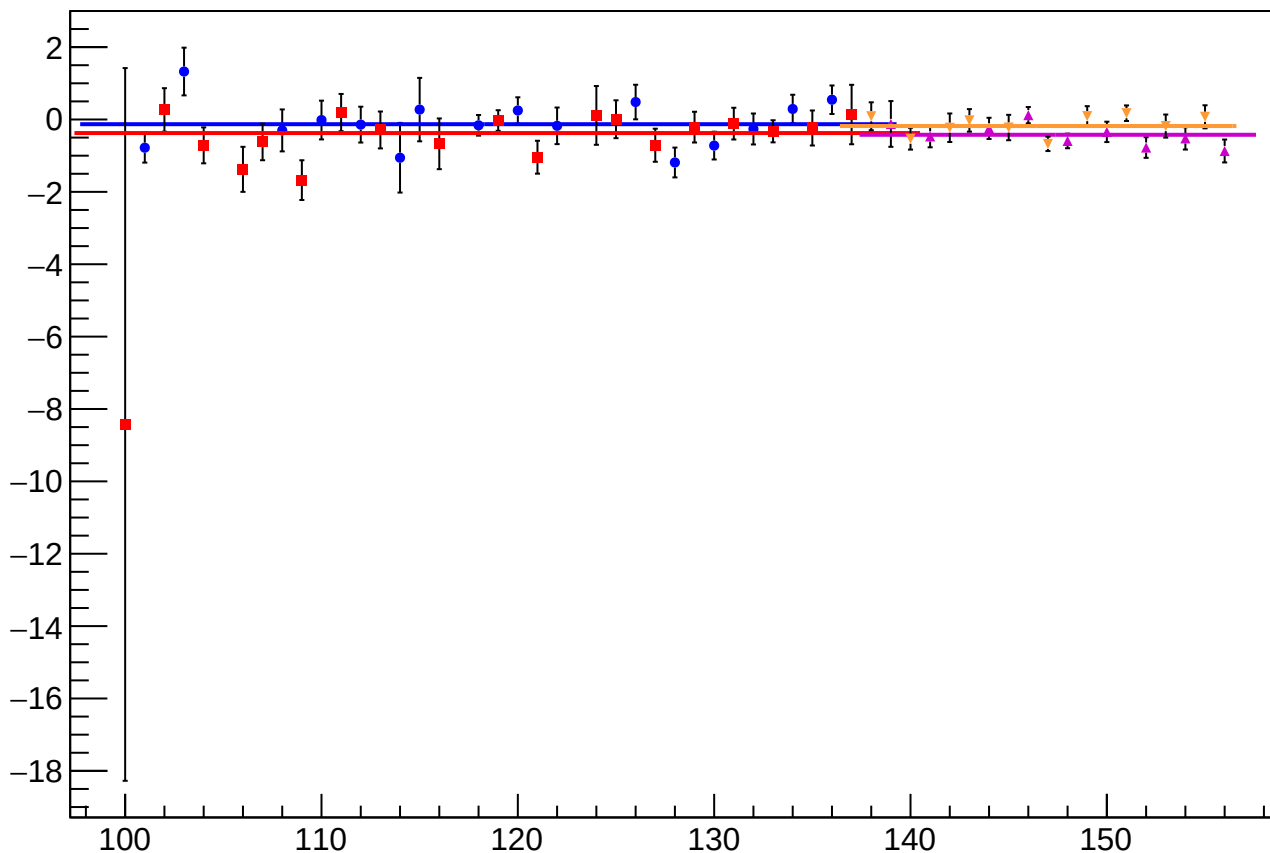
Out: 0.028 $\pm$ 0.004 χ^2 /NDF: 10028.8/26

All: 0.035 $\pm$ 0.003 χ^2 /NDF: 10066.4/51

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.130 ± 0.112 χ^2/NDF : 24.6/15

Left Out: -0.180 ± 0.090 χ^2/NDF : 12.7/9

Right Out: -0.375 ± 0.111 χ^2/NDF : 18.2/18

Left In: -0.423 ± 0.093 χ^2/NDF : 10.9/8

Left: -0.298 ± 0.065 χ^2/NDF : 27.0/18

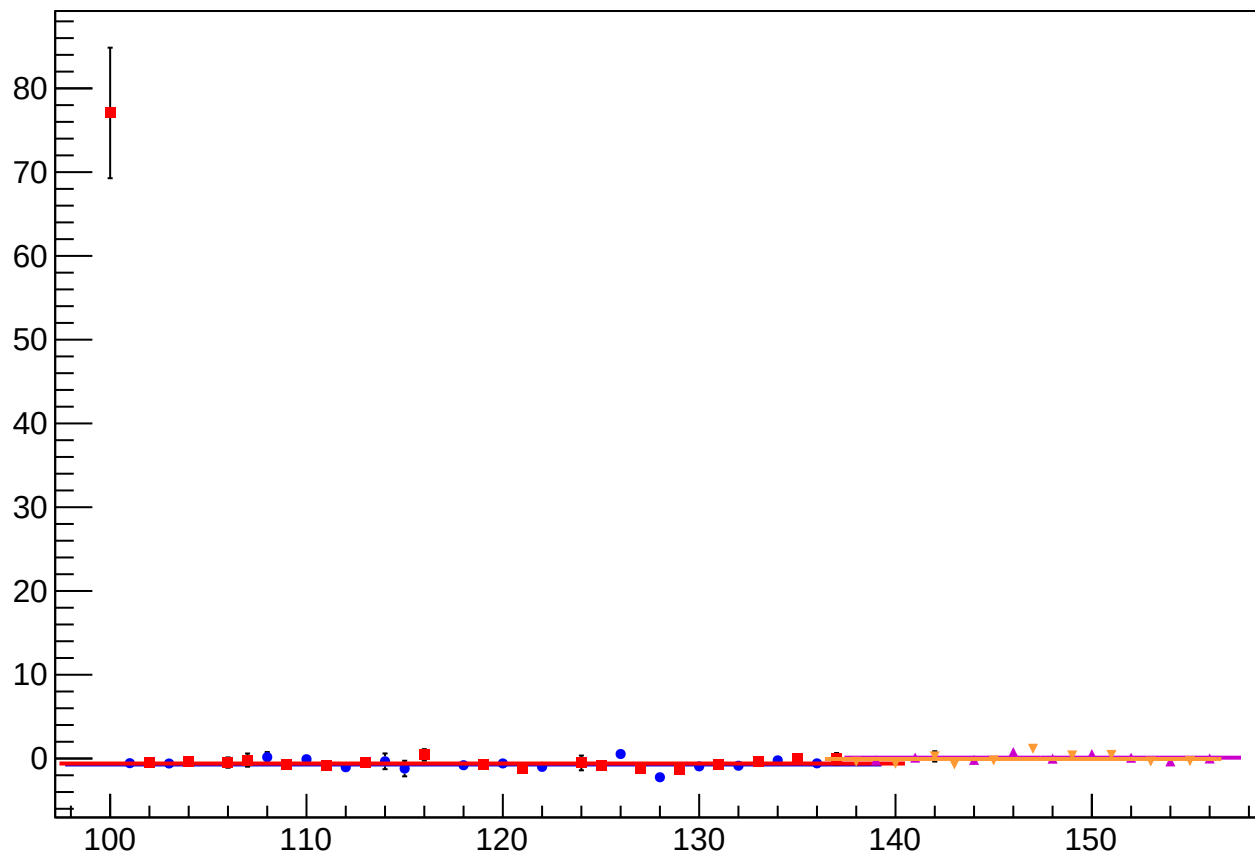
Right: -0.253 ± 0.079 χ^2/NDF : 45.2/34

In: -0.302 ± 0.072 χ^2/NDF : 39.5/24

Out: -0.258 ± 0.070 χ^2/NDF : 32.7/28

All: -0.279 ± 0.050 χ^2/NDF : 72.4/53

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.713 ± 0.122 χ^2/NDF : 24.9/15

Left Out: -0.055 ± 0.132 χ^2/NDF : 18.5/9

Right Out: -0.597 ± 0.122 χ^2/NDF : 110.9/18

Left In: 0.101 ± 0.133 χ^2/NDF : 6.7/8

Left: 0.022 ± 0.094 χ^2/NDF : 25.9/18

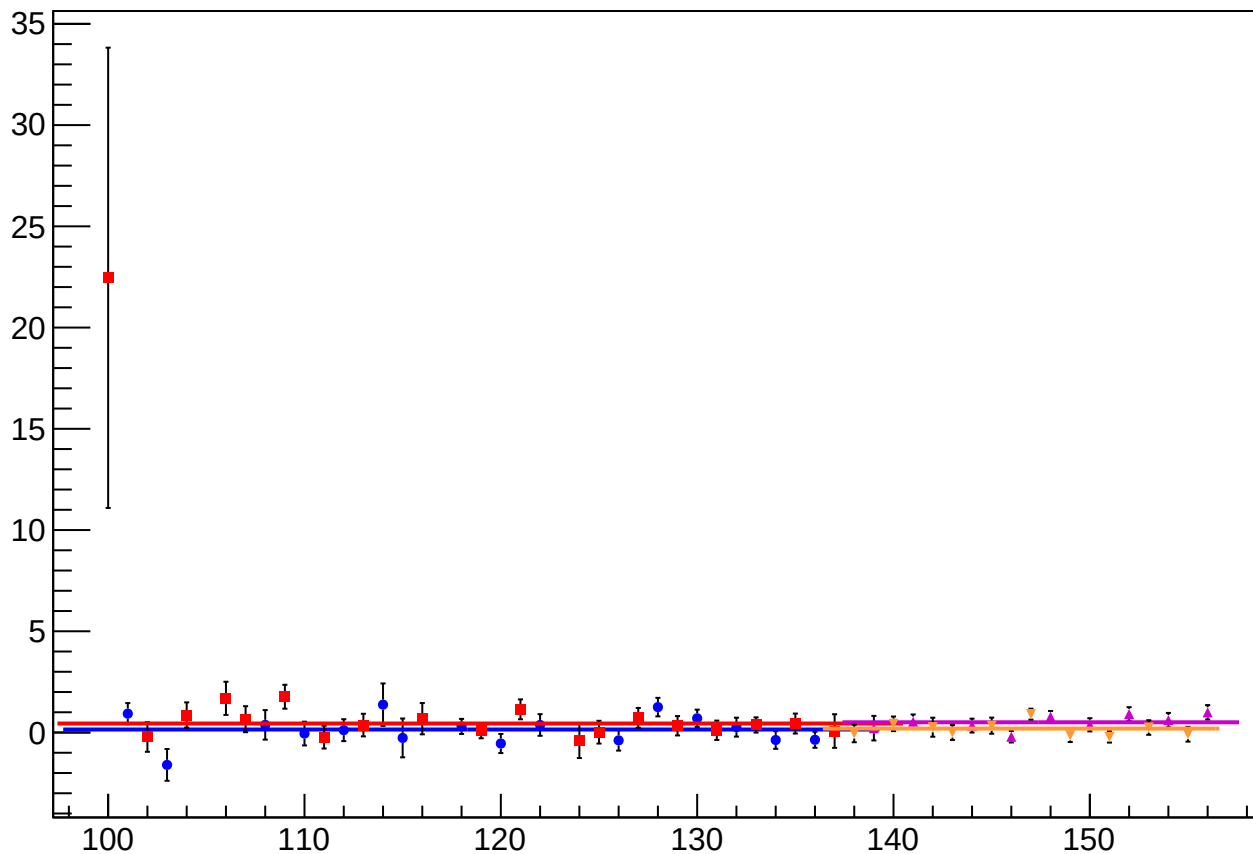
Right: -0.655 ± 0.086 χ^2/NDF : 136.3/34

In: -0.343 ± 0.090 χ^2/NDF : 51.9/24

Out: -0.348 ± 0.089 χ^2/NDF : 138.6/28

All: -0.346 ± 0.063 χ^2/NDF : 190.5/53

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.148 $\pm$ 0.128 χ^2 /NDF: 23.3/15

Left Out: 0.195 $\pm$ 0.110 χ^2 /NDF:11.9/9

Right Out: 0.445 $\pm$ 0.128 χ^2 /NDF: 19.7/18

Left In: 0.505 $\pm$ 0.113 χ^2 /NDF:11.3/8

Left: 0.346 $\pm$ 0.079 χ^2 /NDF: 27.0/18

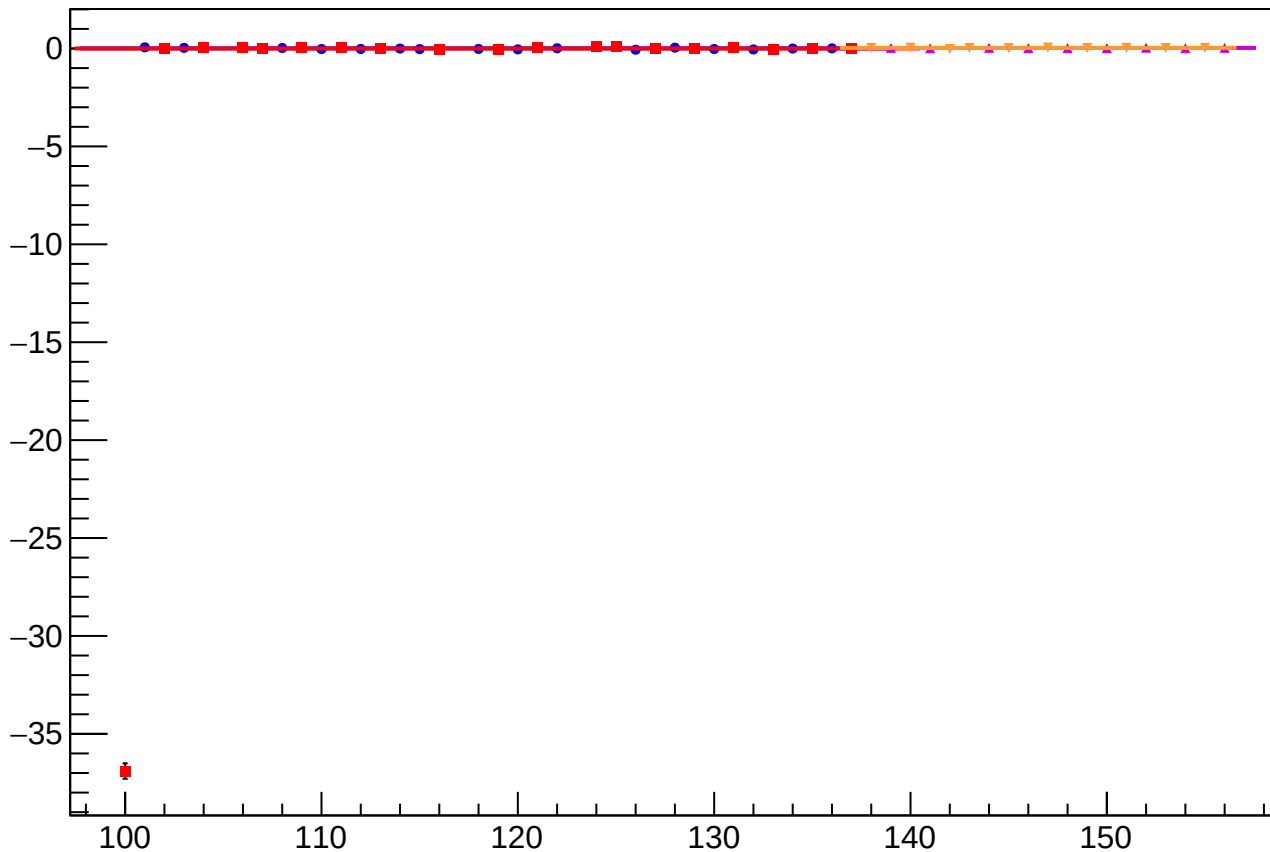
Right: 0.296 $\pm$ 0.090 χ^2 /NDF: 45.7/34

In: 0.349 $\pm$ 0.085 χ^2 /NDF:38.9/24

Out: 0.302 $\pm$ 0.084 χ^2 /NDF:33.8/28

All: 0.325 $\pm$ 0.060 χ^2 /NDF: 72.9/53

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.007 χ^2 /NDF: 17.6/15

Left Out: 0.027 $\pm$ 0.005 χ^2 /NDF:7.6/9

Right Out: 0.002 $\pm$ 0.007 χ^2 /NDF: 8753.3/18

Left In: 0.029 $\pm$ 0.005 χ^2 /NDF:3.5/8

Left: 0.028 $\pm$ 0.004 χ^2 /NDF: 11.1/18

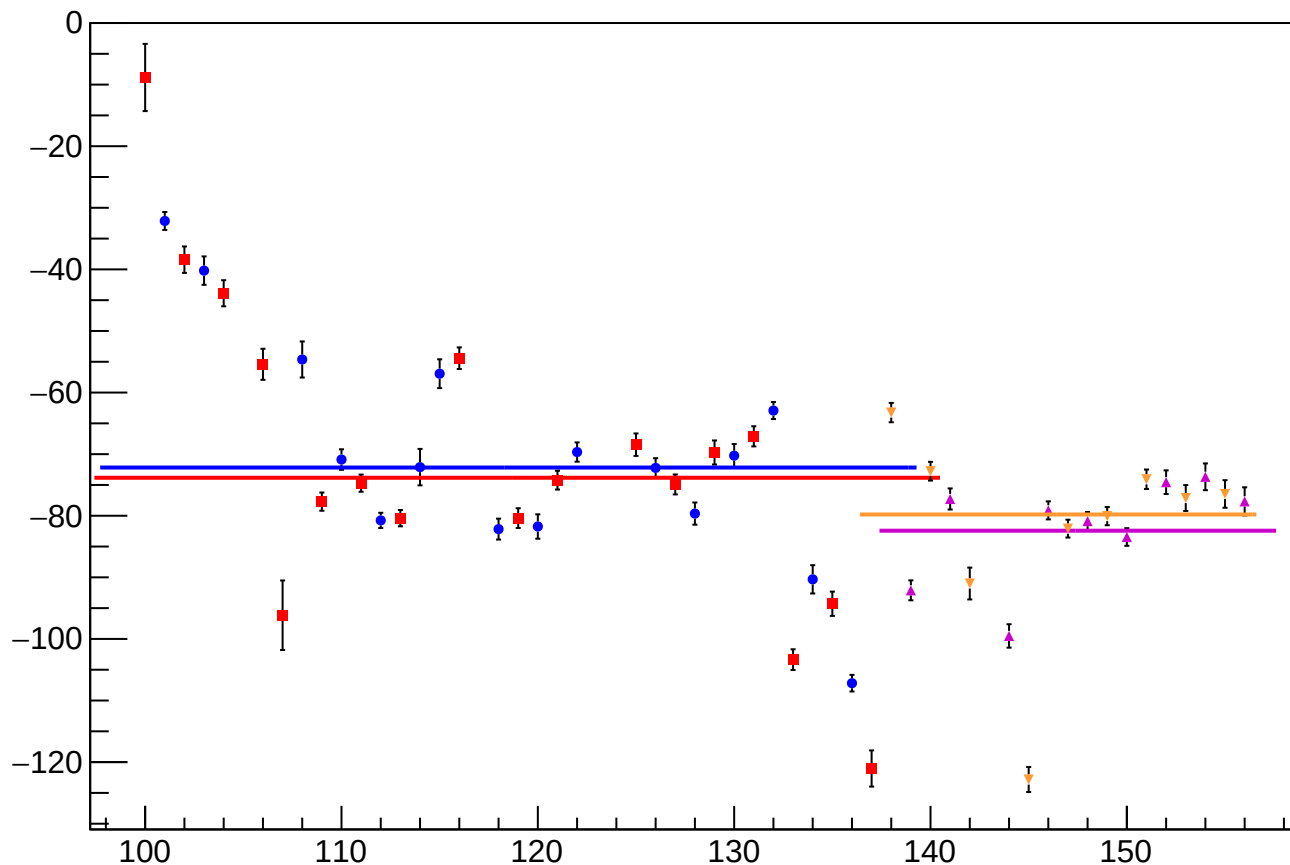
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 8771.0/34

In: 0.021 $\pm$ 0.004 χ^2 /NDF:27.4/24

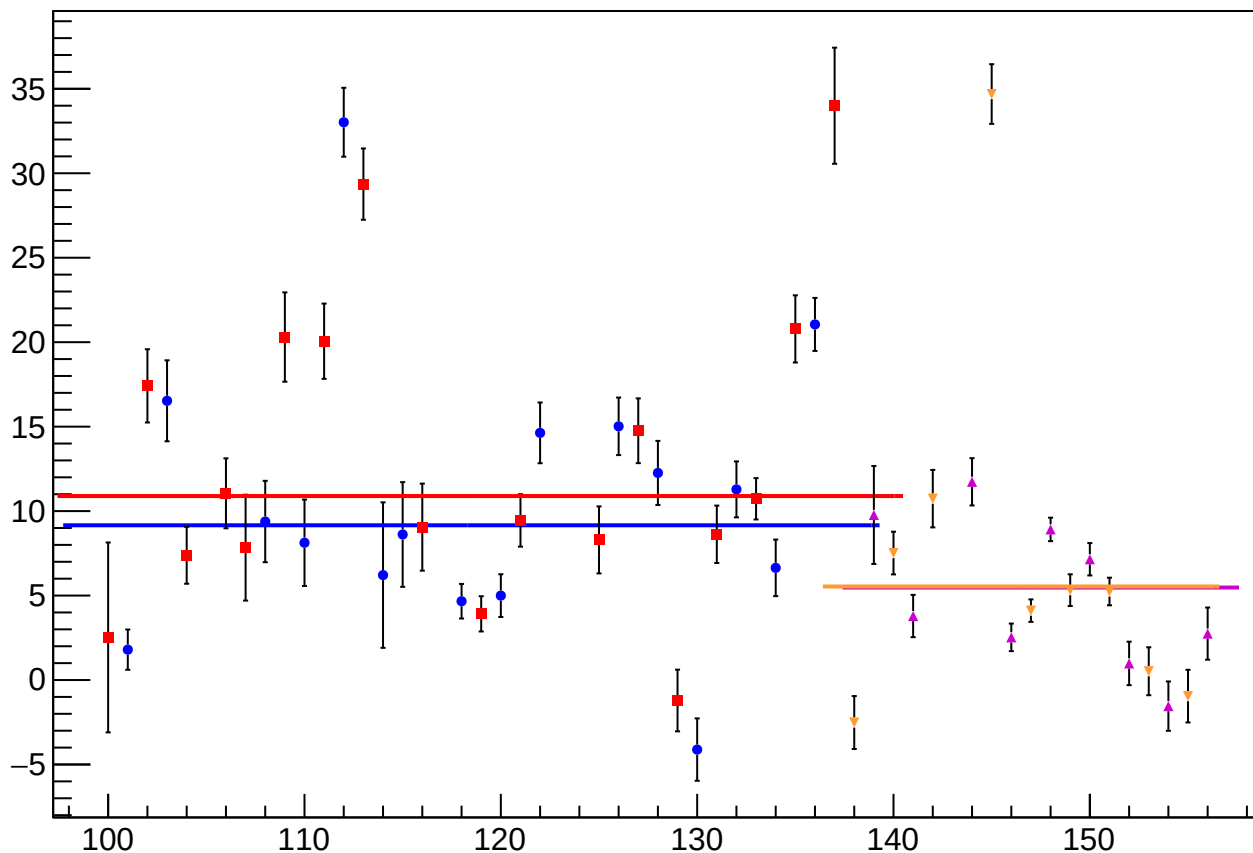
Out: 0.019 $\pm$ 0.004 χ^2 /NDF:8768.6/28

All: 0.020 $\pm$ 0.003 χ^2 /NDF: 8796.1/53

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: 5.538 ± 0.365 $\chi^2/\text{NDF}: 344.8/8$

Right Out: 10.892 ± 0.440 $\chi^2/\text{NDF}: 290.2/17$

Left In: 5.476 ± 0.367 $\chi^2/\text{NDF}: 103.1/8$

Left: 5.507 ± 0.259 $\chi^2/\text{NDF}: 447.9/17$

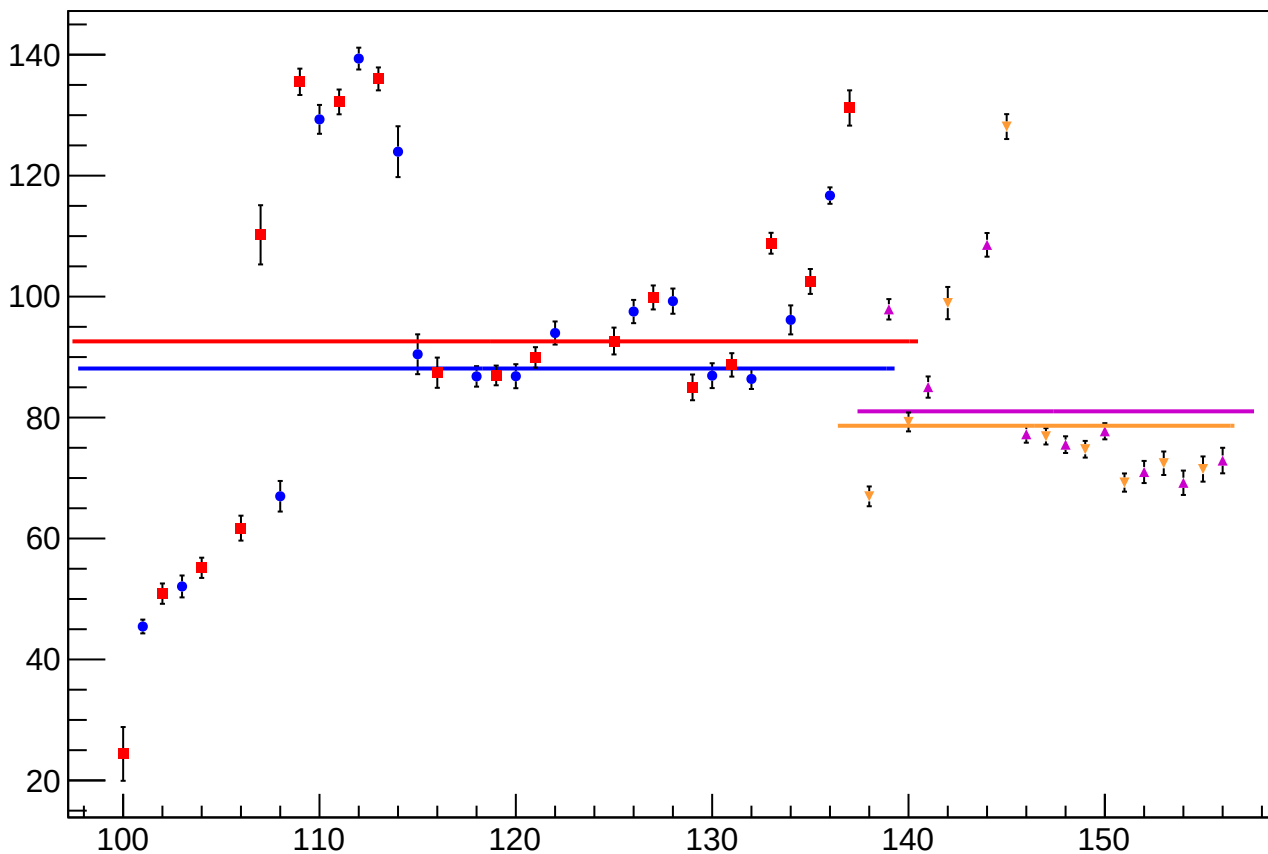
Right: 9.996 ± 0.306 $\chi^2/\text{NDF}: 650.3/33$

In: 7.050 ± 0.278 $\chi^2/\text{NDF}: 498.2/24$

Out: 7.721 ± 0.281 $\chi^2/\text{NDF}: 722.7/26$

All: 7.381 ± 0.198 $\chi^2/\text{NDF}: 1223.8/51$

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: 78.644+/-0.562 χ^2/NDF : 756.9/8

Right Out: 92.596+/-0.483 χ^2/NDF : 3211.0/17

Left In: 81.028+/-0.550 χ^2/NDF : 411.4/8

Left: 79.861+/-0.393 χ^2/NDF : 1177.4/17

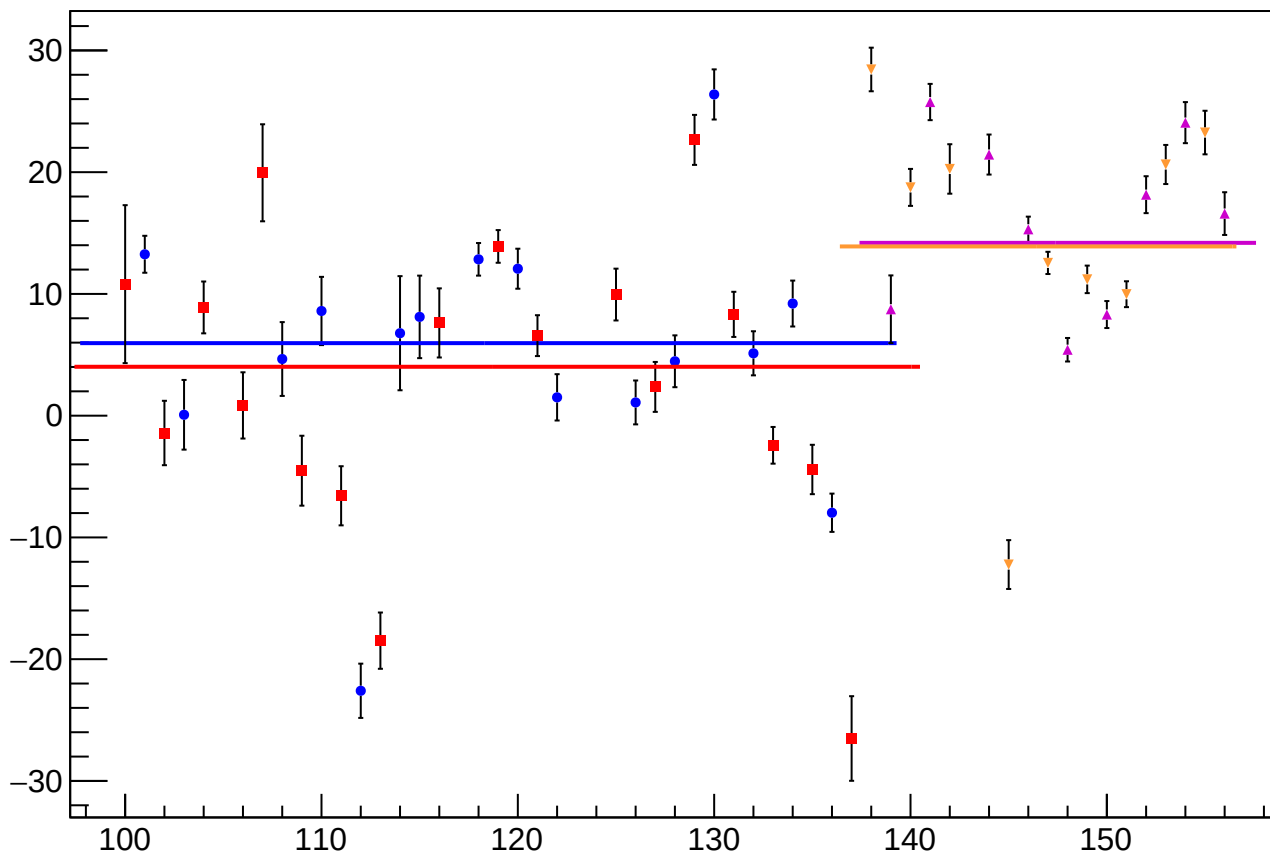
Right: 90.284+/-0.336 χ^2/NDF : 6817.1/33

In: 85.133+/-0.357 χ^2/NDF : 4069.0/24

Out: 86.664+/-0.366 χ^2/NDF : 4322.4/26

All: 85.879+/-0.256 χ^2/NDF : 8400.4/51

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.958 $\pm$ 0.495 χ^2/NDF : 426.8/15

Left Out: 13.900 $\pm$ 0.456 χ^2/NDF :322.0/8

Right Out: 4.017 $\pm$ 0.510 χ^2/NDF : 417.7/17

Left In: 14.195 $\pm$ 0.453 χ^2/NDF :238.5/8

Left: 14.048 $\pm$ 0.321 χ^2/NDF : 560.7/17

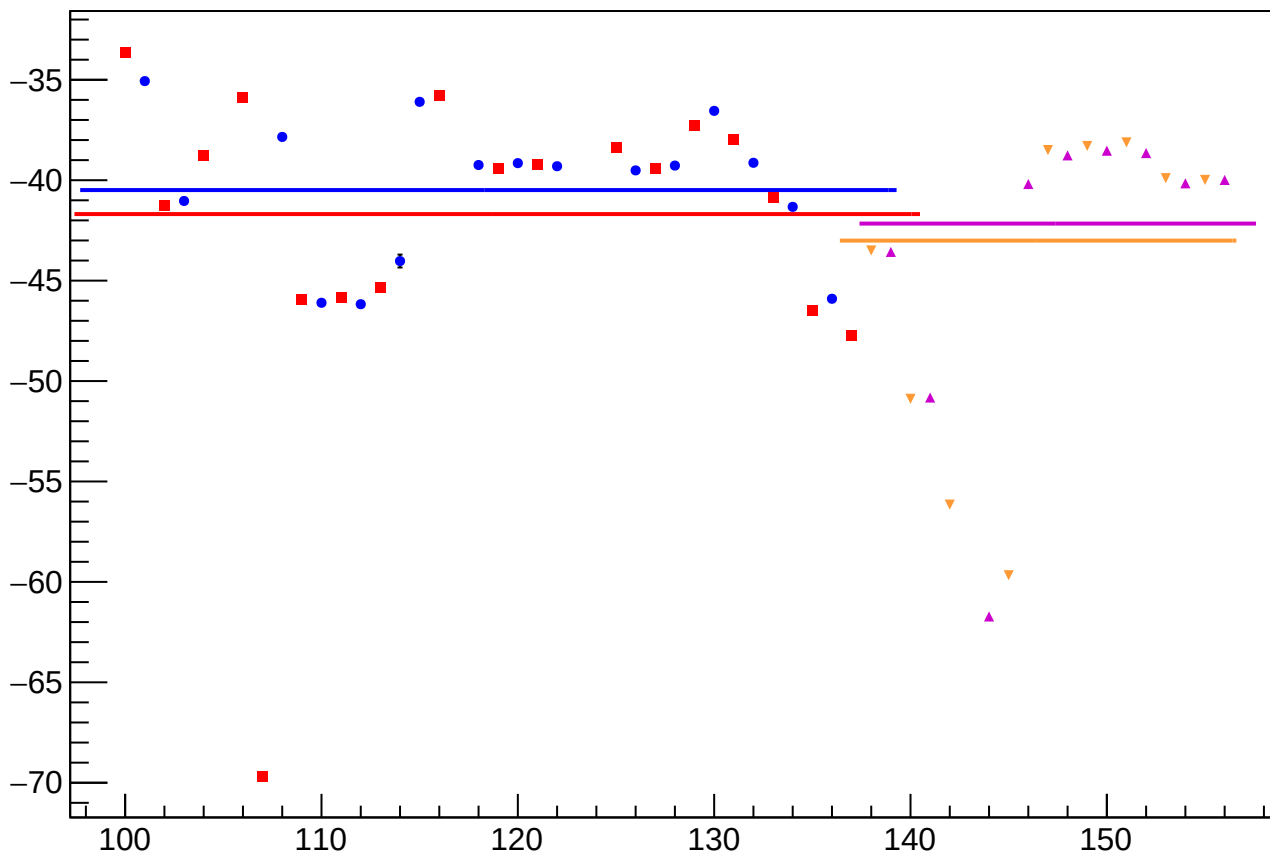
Right: 5.016 $\pm$ 0.355 χ^2/NDF : 851.9/33

In: 10.437 $\pm$ 0.334 χ^2/NDF :816.0/24

Out: 9.504 $\pm$ 0.340 χ^2/NDF :948.5/26

All: 9.978 $\pm$ 0.238 χ^2/NDF : 1768.4/51

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.491 ± 0.028 χ^2/NDF : 18125.4/15

Left Out: -43.007 ± 0.023 χ^2/NDF : 92257.6/8

Right Out: -41.686 ± 0.029 χ^2/NDF : 36838.6/17

Left In: -42.159 ± 0.021 χ^2/NDF : 78534.9/8

Left: -42.558 ± 0.015 χ^2/NDF : 171537.5/17

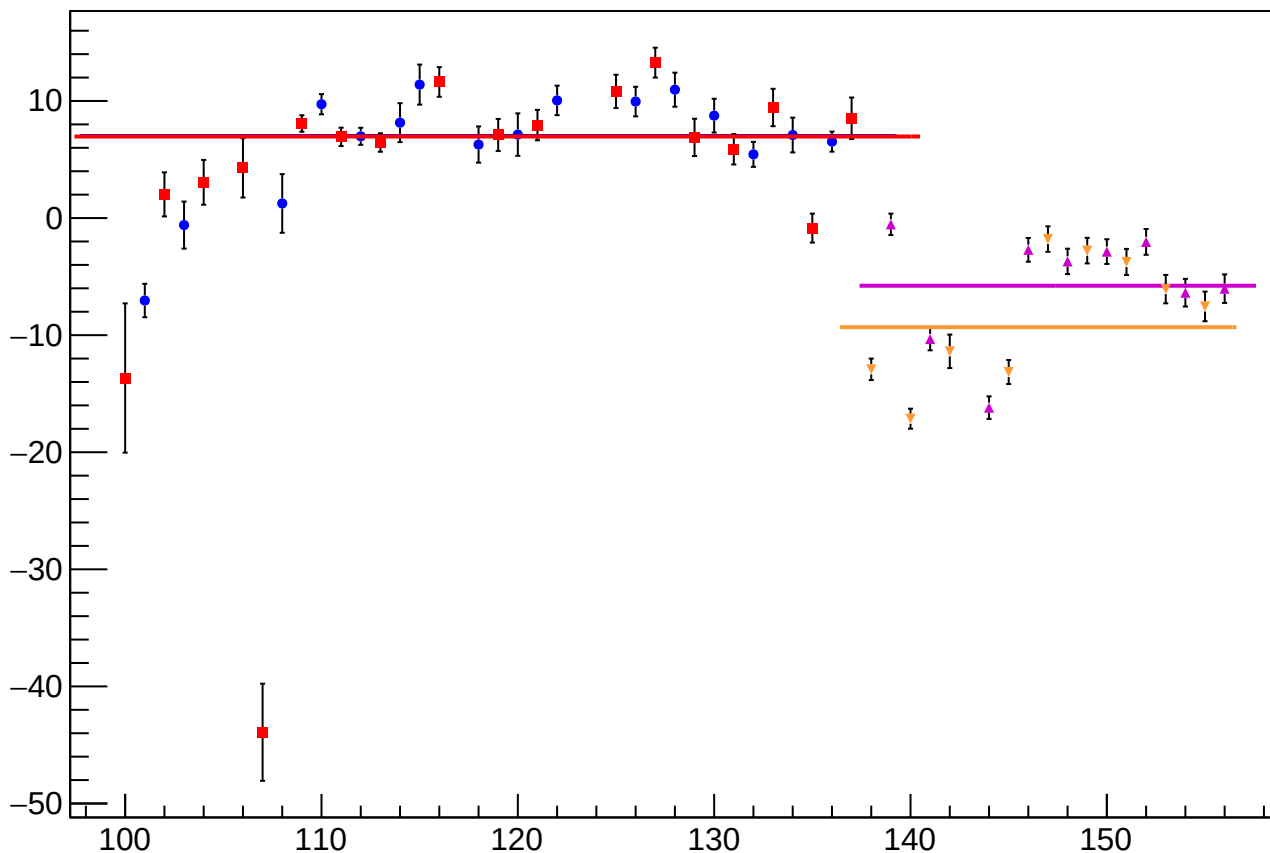
Right: -41.069 ± 0.020 χ^2/NDF : 55825.2/33

In: -41.556 ± 0.017 χ^2/NDF : 98877.8/24

Out: -42.513 ± 0.018 χ^2/NDF : 130373.7/26

All: -42.011 ± 0.012 χ^2/NDF : 230754.1/51

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: -9.319 ± 0.358 χ^2/NDF : 232.9/8

Right Out: 6.967 ± 0.298 χ^2/NDF : 266.0/17

Left In: -5.779 ± 0.348 χ^2/NDF : 204.5/8

Left: -7.495 ± 0.249 χ^2/NDF : 487.7/17

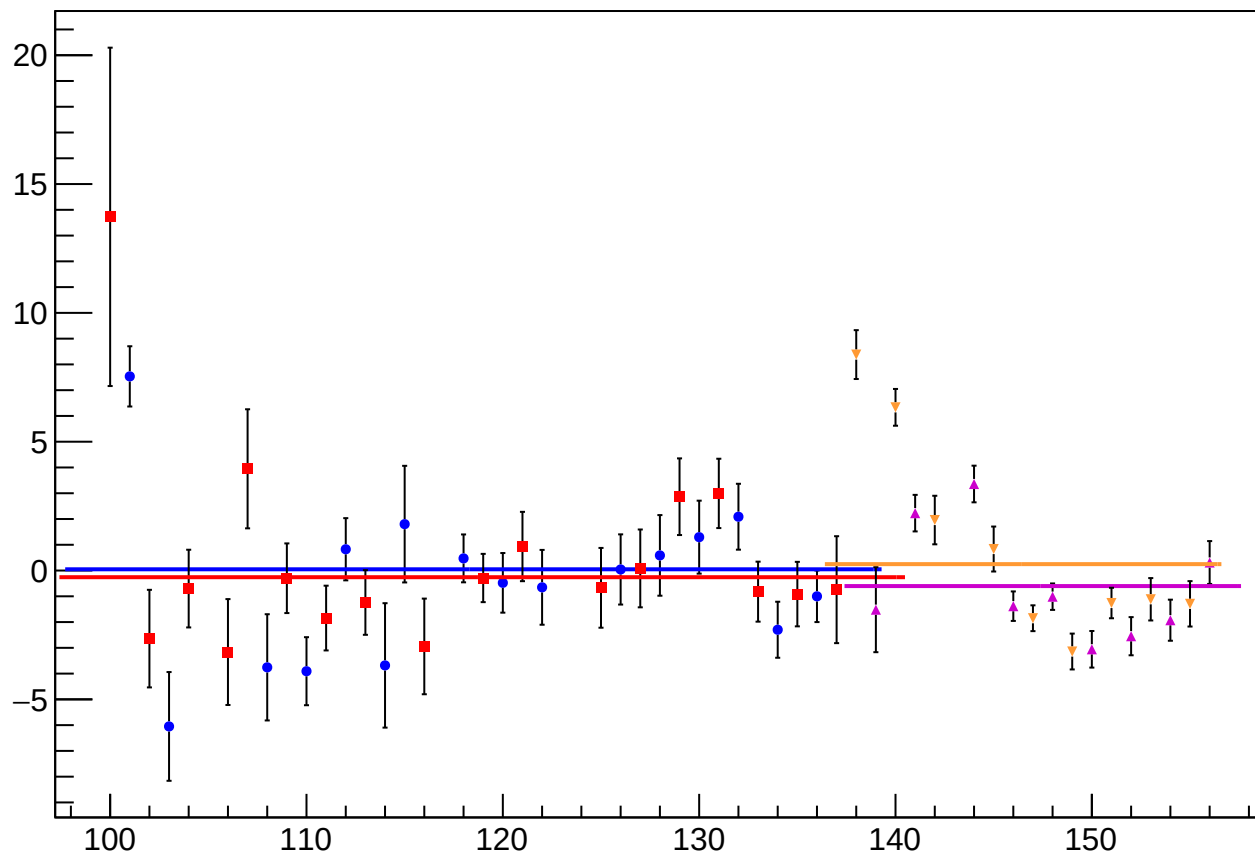
Right: 6.988 ± 0.215 χ^2/NDF : 422.3/33

In: 1.360 ± 0.231 χ^2/NDF : 1116.6/24

Out: 0.304 ± 0.229 χ^2/NDF : 1719.3/26

All: 0.828 ± 0.163 χ^2/NDF : 2846.4/51

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: 0.249 ± 0.241 $\chi^2/\text{NDF}: 203.7/8$

Right Out: -0.259 ± 0.344 $\chi^2/\text{NDF}: 27.5/17$

Left In: -0.603 ± 0.236 $\chi^2/\text{NDF}: 72.6/8$

Left: -0.187 ± 0.169 $\chi^2/\text{NDF}: 282.7/17$

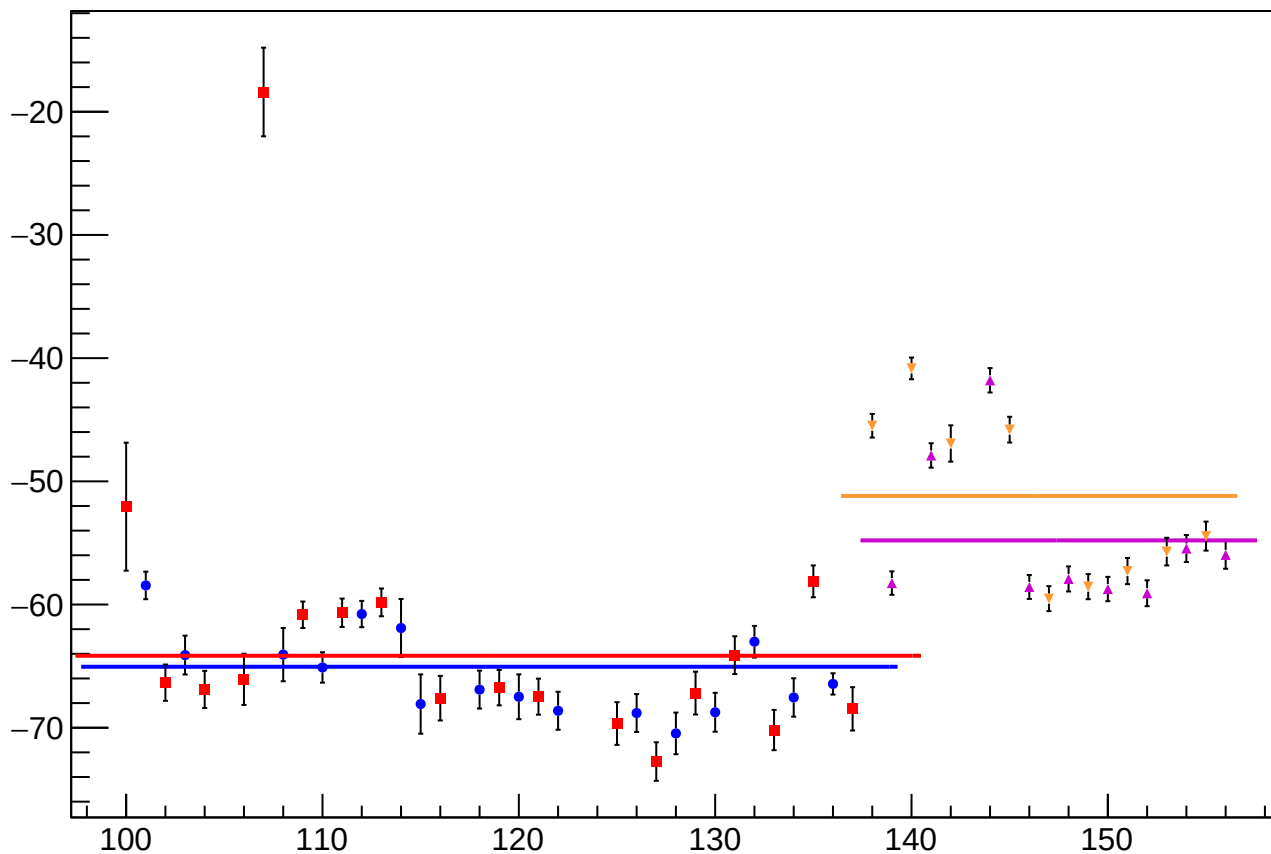
Right: -0.099 ± 0.239 $\chi^2/\text{NDF}: 102.9/33$

In: -0.384 ± 0.192 $\chi^2/\text{NDF}: 150.1/24$

Out: 0.082 ± 0.198 $\chi^2/\text{NDF}: 232.7/26$

All: -0.158 ± 0.138 $\chi^2/\text{NDF}: 385.7/51$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.051 ± 0.354 $\chi^2/\text{NDF}: 92.8/15$

Left Out: -51.185 ± 0.352 $\chi^2/\text{NDF}: 385.1/8$

Right Out: -64.156 ± 0.360 $\chi^2/\text{NDF}: 303.7/17$

Left In: -54.794 ± 0.339 $\chi^2/\text{NDF}: 292.5/8$

Left: -53.058 ± 0.244 $\chi^2/\text{NDF}: 732.2/17$

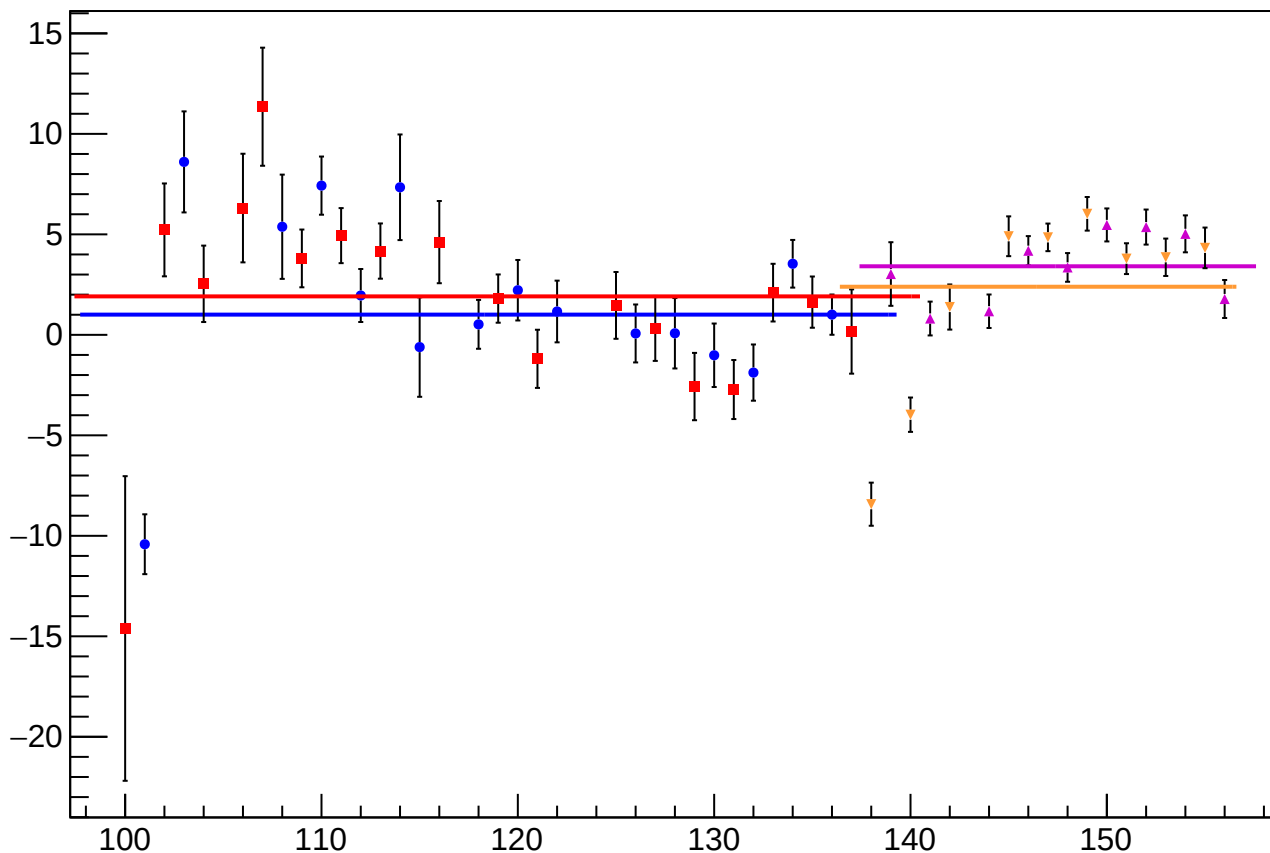
Right: -64.611 ± 0.253 $\chi^2/\text{NDF}: 399.6/33$

In: -59.695 ± 0.245 $\chi^2/\text{NDF}: 823.6/24$

Out: -57.511 ± 0.252 $\chi^2/\text{NDF}: 1352.1/26$

All: -58.634 ± 0.175 $\chi^2/\text{NDF}: 2214.5/51$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.006 $\pm$ 0.376 χ^2/NDF : 109.2/15

Left Out: 2.394 $\pm$ 0.296 χ^2/NDF : 205.6/8

Right Out: 1.914 $\pm$ 0.390 χ^2/NDF : 54.5/17

Left In: 3.411 $\pm$ 0.286 χ^2/NDF : 35.3/8

Left: 2.919 $\pm$ 0.206 χ^2/NDF : 247.0/17

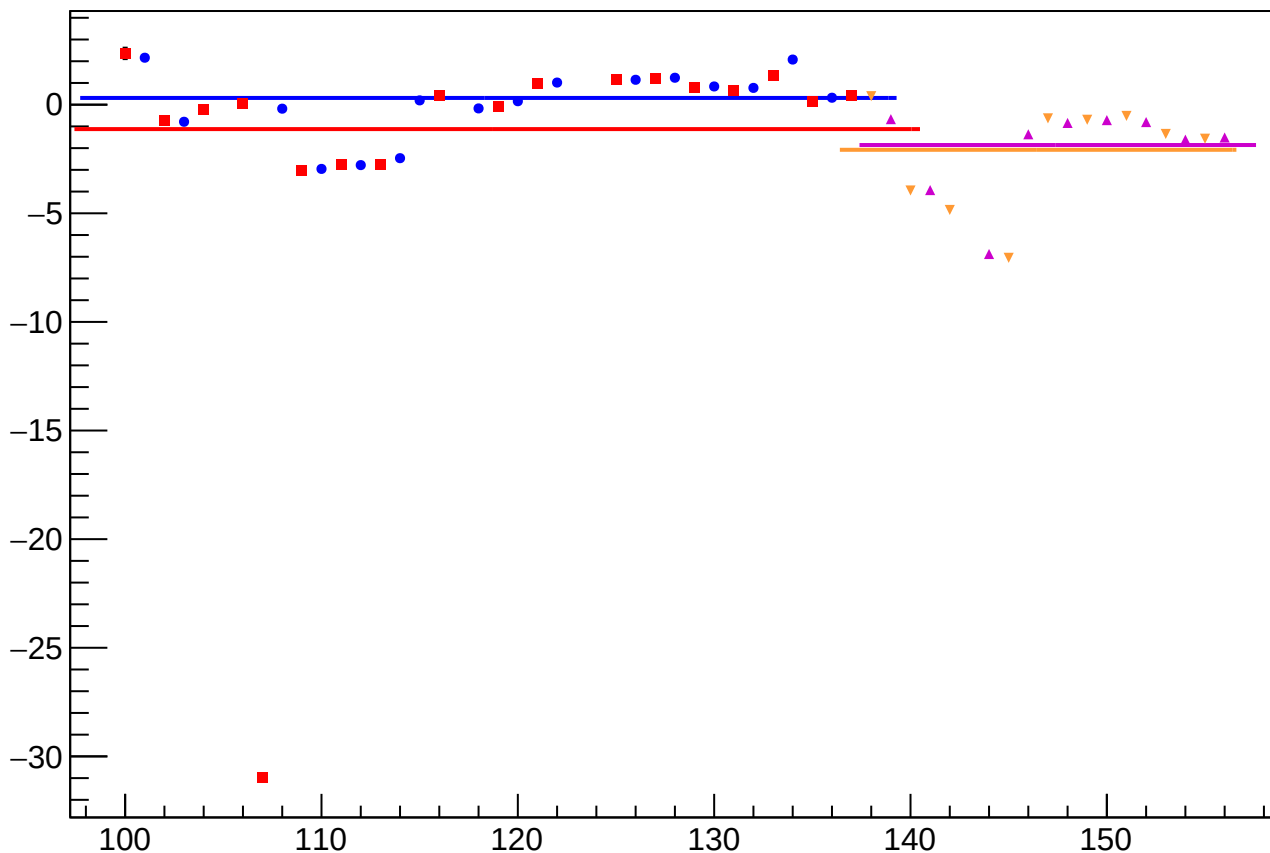
Right: 1.443 $\pm$ 0.270 χ^2/NDF : 166.5/33

In: 2.528 $\pm$ 0.228 χ^2/NDF : 170.5/24

Out: 2.218 $\pm$ 0.236 χ^2/NDF : 261.1/26

All: 2.378 $\pm$ 0.164 χ^2/NDF : 432.4/51

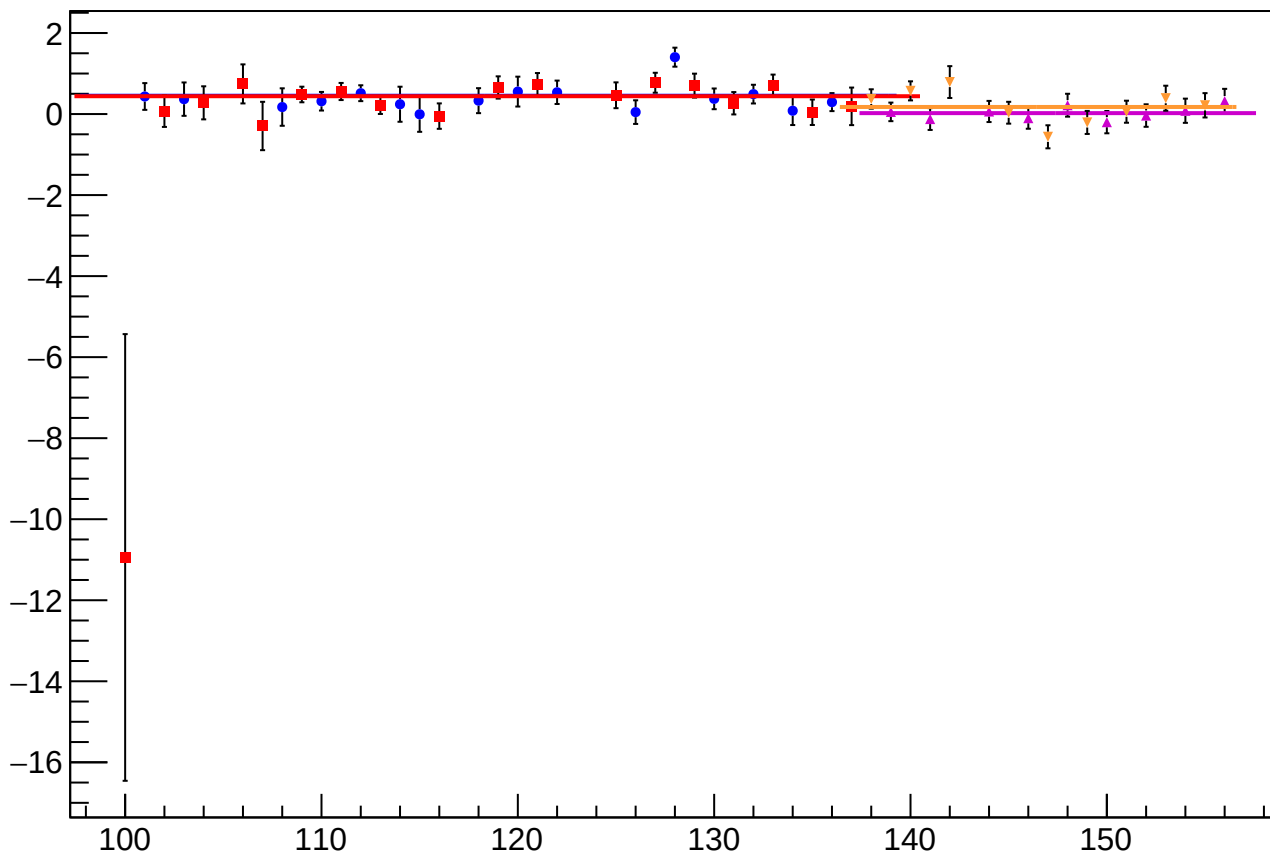
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 ± 0.021 $\chi^2/\text{NDF}: 4848.4/15$
 Left Out: -2.076 ± 0.014 $\chi^2/\text{NDF}: 27195.7/8$
 Right Out: -1.124 ± 0.022 $\chi^2/\text{NDF}: 46347.9/17$
 Left In: -1.857 ± 0.013 $\chi^2/\text{NDF}: 19176.1/8$

Left: -1.958 ± 0.009 $\chi^2/\text{NDF}: 46505.4/17$
 Right: -0.369 ± 0.015 $\chi^2/\text{NDF}: 53391.3/33$
 In: -1.264 ± 0.011 $\chi^2/\text{NDF}: 31711.2/24$
 Out: -1.808 ± 0.012 $\chi^2/\text{NDF}: 74863.7/26$
 All: -1.517 ± 0.008 $\chi^2/\text{NDF}: 107710.9/51$

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: 0.175 $\pm$ 0.093 χ^2 /NDF:15.5/8

Right Out: 0.440 $\pm$ 0.070 χ^2 /NDF: 18.5/17

Left In: 0.023 $\pm$ 0.090 χ^2 /NDF:2.7/8

Left: 0.096 $\pm$ 0.065 χ^2 /NDF: 19.6/17

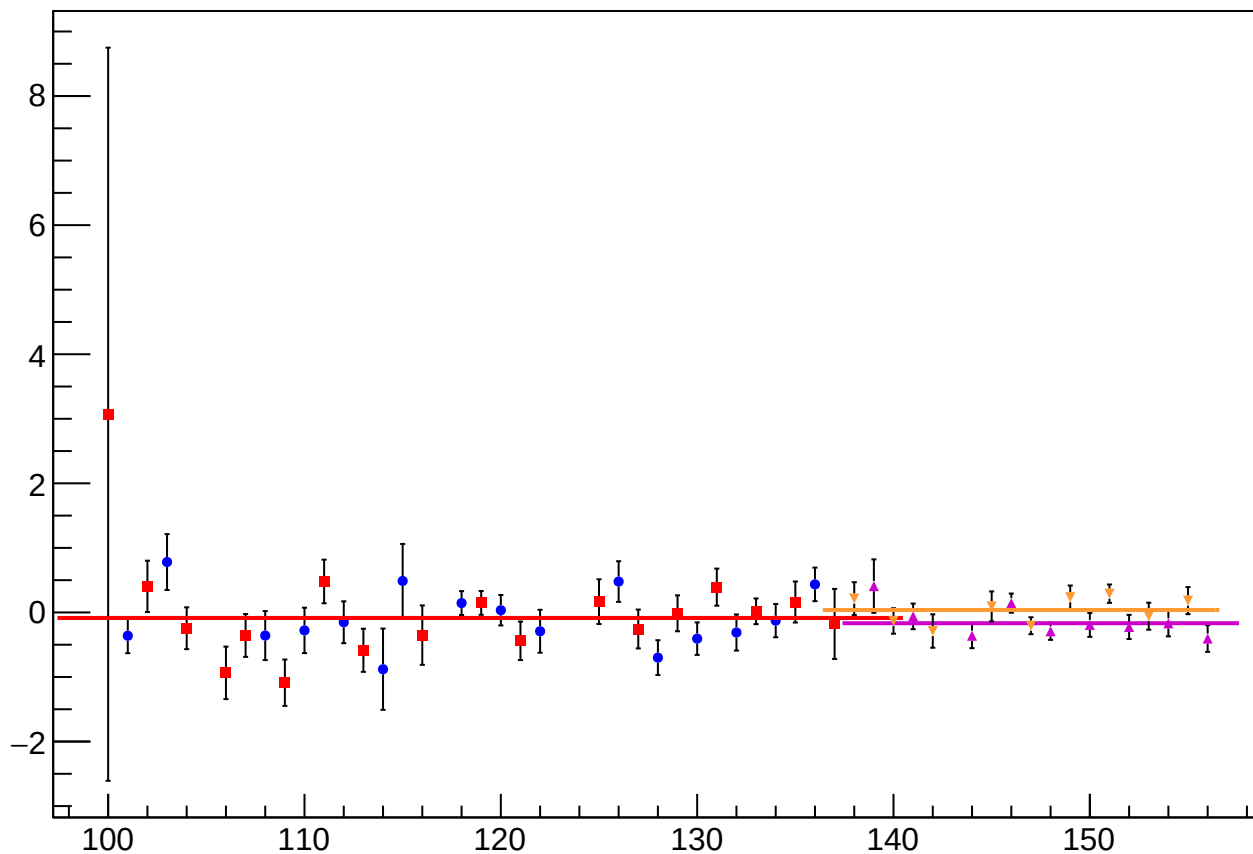
Right: 0.446 $\pm$ 0.050 χ^2 /NDF: 41.2/33

In: 0.287 $\pm$ 0.056 χ^2 /NDF:39.3/24

Out: 0.345 $\pm$ 0.056 χ^2 /NDF:39.2/26

All: 0.316 $\pm$ 0.039 χ^2 /NDF: 79.1/51

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: 0.038 ± 0.062 χ^2/NDF : 11.4/8

Right Out: -0.085 ± 0.074 χ^2/NDF : 27.9/17

Left In: -0.167 ± 0.061 χ^2/NDF : 9.9/8

Left: -0.066 ± 0.044 χ^2/NDF : 26.8/17

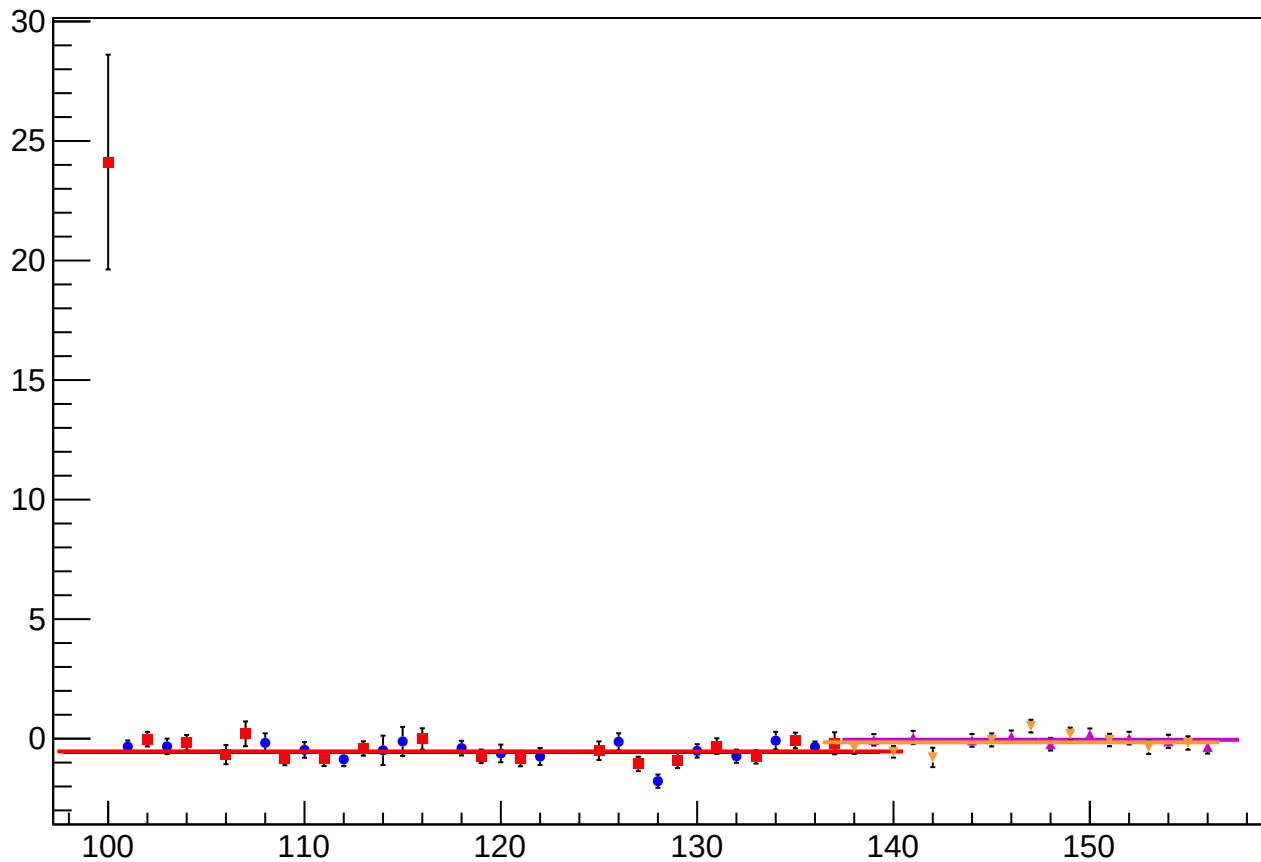
Right: -0.086 ± 0.052 χ^2/NDF : 53.3/33

In: -0.134 ± 0.047 χ^2/NDF : 36.0/24

Out: -0.013 ± 0.048 χ^2/NDF : 40.9/26

All: -0.074 ± 0.033 χ^2/NDF : 80.1/51

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: -0.153 ± 0.091 χ^2/NDF : 15.1/8

Right Out: -0.534 ± 0.081 χ^2/NDF : 49.2/17

Left In: -0.046 ± 0.088 χ^2/NDF : 2.9/8

Left: -0.097 ± 0.063 χ^2/NDF : 18.7/17

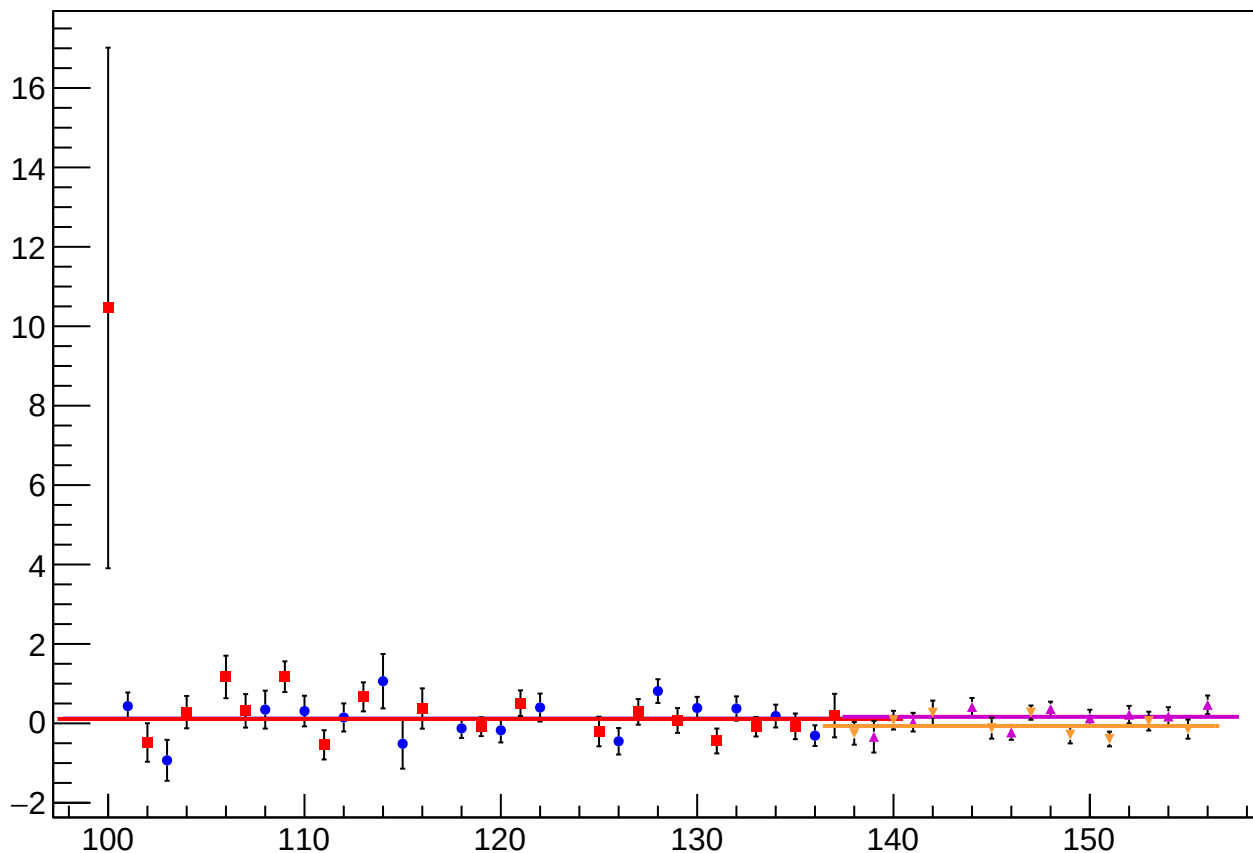
Right: -0.546 ± 0.057 χ^2/NDF : 77.6/33

In: -0.327 ± 0.059 χ^2/NDF : 49.9/24

Out: -0.366 ± 0.060 χ^2/NDF : 74.1/26

All: -0.346 ± 0.042 χ^2/NDF : 124.2/51

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: -0.066 ± 0.076 χ^2/NDF : 10.1/8

Right Out: 0.111 ± 0.085 χ^2/NDF : 29.0/17

Left In: 0.164 ± 0.074 χ^2/NDF : 10.3/8

Left: 0.052 ± 0.053 χ^2/NDF : 25.1/17

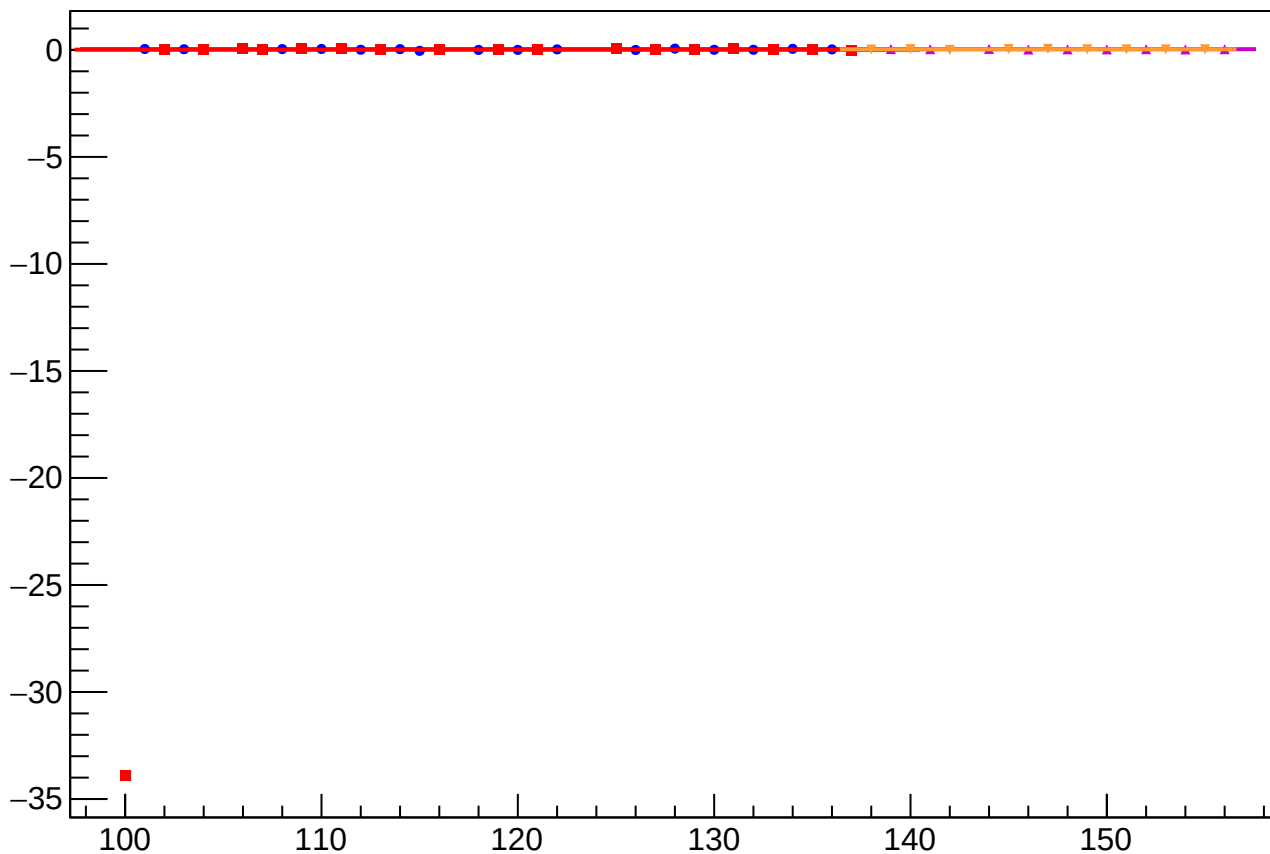
Right: 0.115 ± 0.060 χ^2/NDF : 52.6/33

In: 0.144 ± 0.056 χ^2/NDF : 34.1/24

Out: 0.013 ± 0.057 χ^2/NDF : 41.5/26

All: 0.080 ± 0.040 χ^2/NDF : 78.3/51

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: 0.027 $\pm$ 0.004 χ^2 /NDF: 7.8/8

Right Out: 0.012 $\pm$ 0.005 χ^2 /NDF: 22262.0/17

Left In: 0.033 $\pm$ 0.003 χ^2 /NDF: 5.6/8

Left: 0.030 $\pm$ 0.002 χ^2 /NDF: 14.6/17

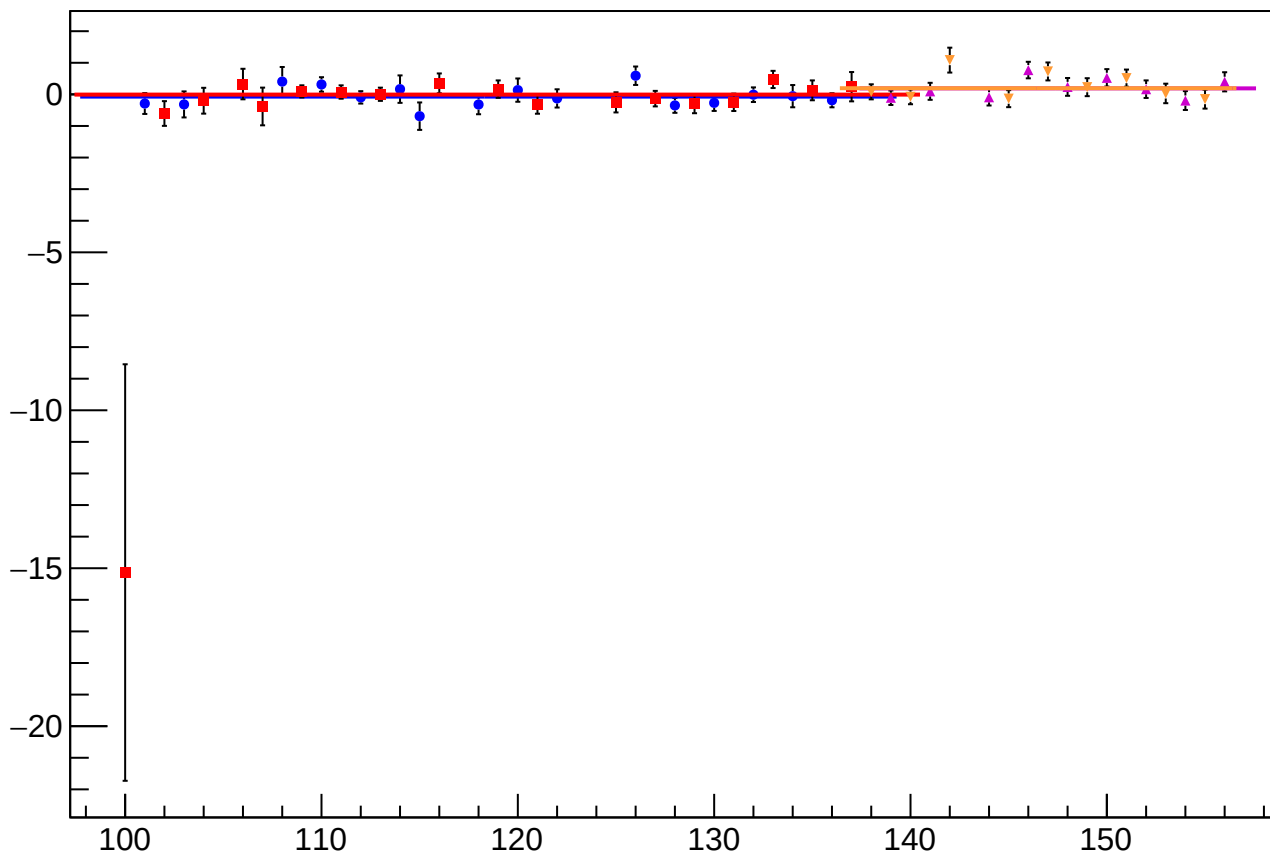
Right: 0.020 $\pm$ 0.003 χ^2 /NDF: 22281.9/33

In: 0.031 $\pm$ 0.003 χ^2 /NDF: 21.1/24

Out: 0.022 $\pm$ 0.003 χ^2 /NDF: 22276.5/26

All: 0.027 $\pm$ 0.002 χ^2 /NDF: 22302.9/51

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: 0.195 ± 0.093 χ^2/NDF : 14.6/8

Right Out: -0.007 ± 0.070 χ^2/NDF : 18.1/17

Left In: 0.190 ± 0.090 χ^2/NDF : 11.5/8

Left: 0.192 ± 0.065 χ^2/NDF : 26.2/17

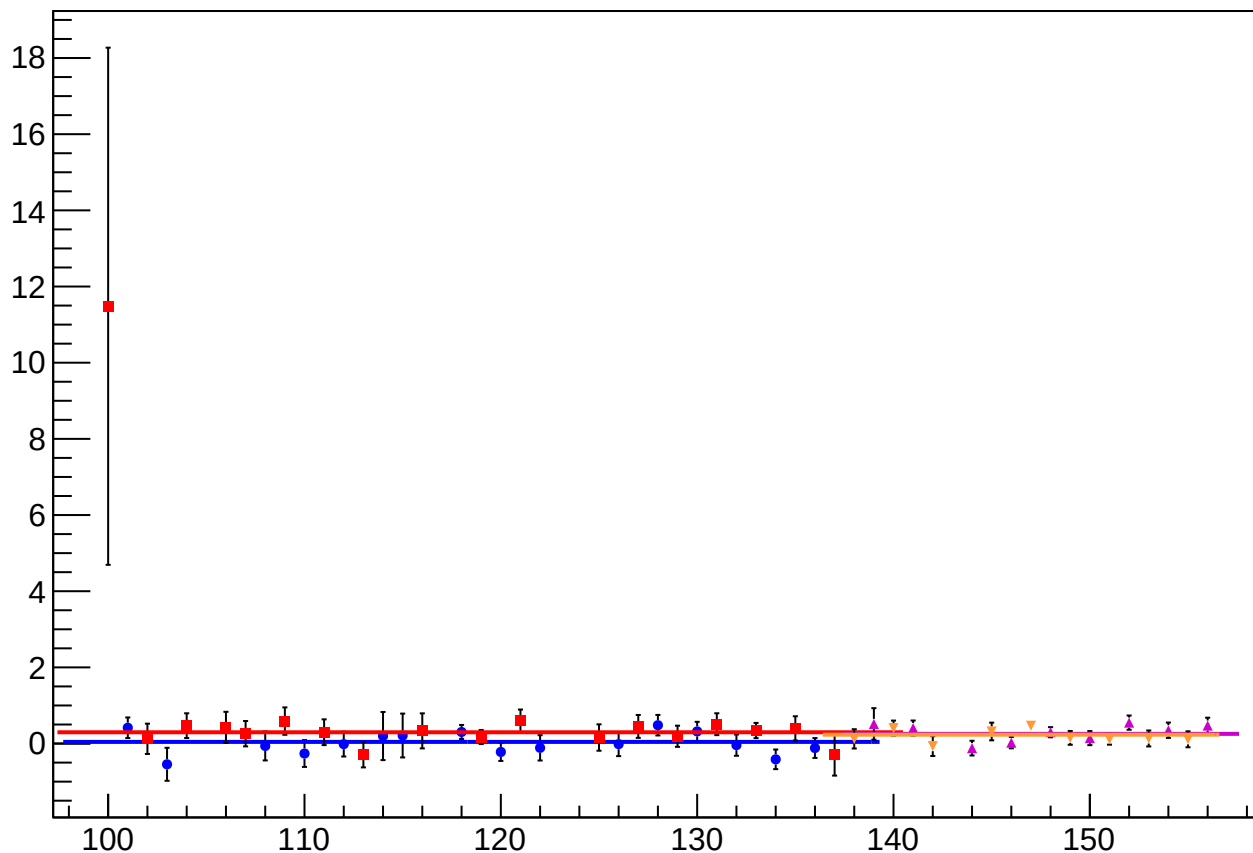
Right: -0.038 ± 0.050 χ^2/NDF : 34.1/33

In: 0.030 ± 0.056 χ^2/NDF : 32.1/24

Out: 0.066 ± 0.056 χ^2/NDF : 35.8/26

All: 0.048 ± 0.039 χ^2/NDF : 68.2/51

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.044 ± 0.073 $\chi^2/\text{NDF}: 15.7/15$

Left Out: 0.233 ± 0.062 $\chi^2/\text{NDF}: 7.1/8$

Right Out: 0.296 ± 0.074 $\chi^2/\text{NDF}: 11.0/17$

Left In: 0.254 ± 0.061 $\chi^2/\text{NDF}: 11.4/8$

Left: 0.244 ± 0.044 $\chi^2/\text{NDF}: 18.6/17$

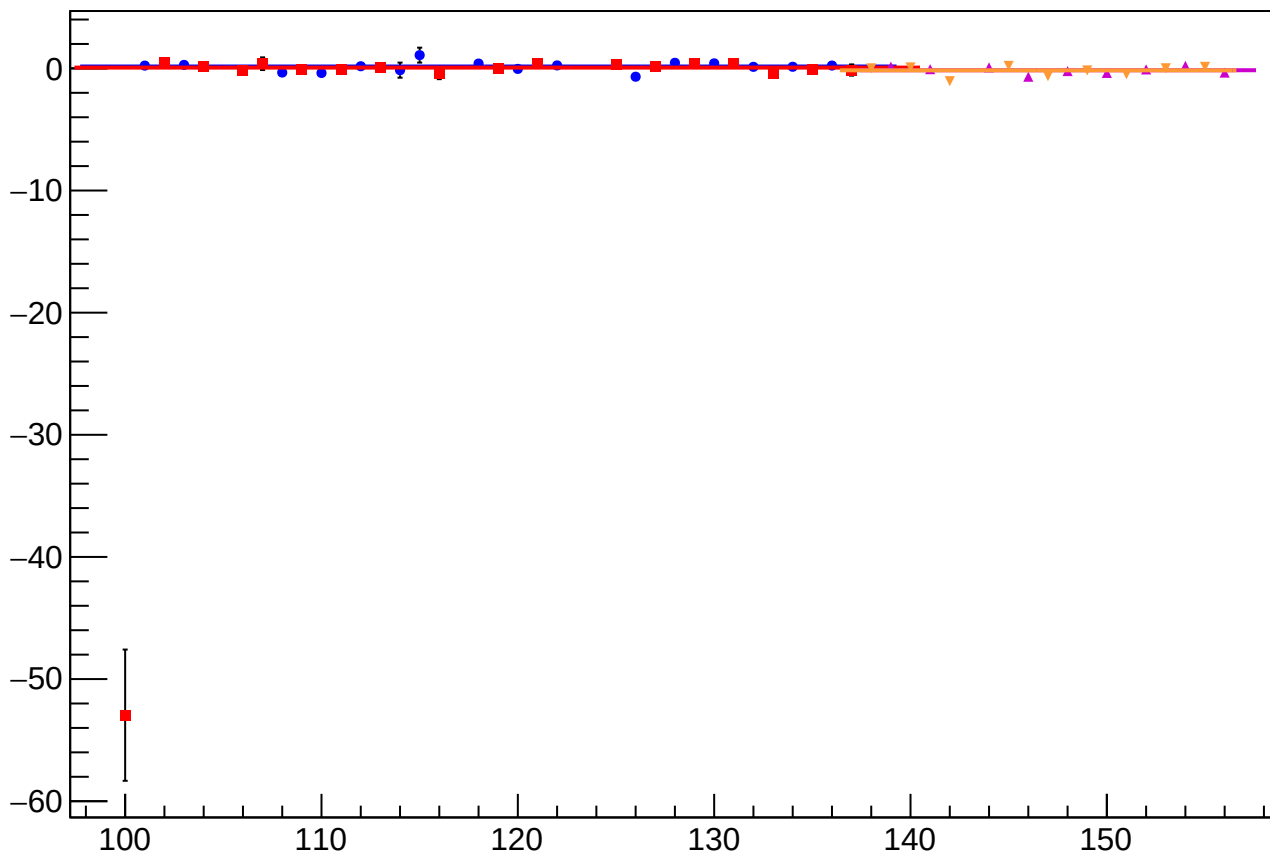
Right: 0.169 ± 0.052 $\chi^2/\text{NDF}: 32.6/33$

In: 0.167 ± 0.047 $\chi^2/\text{NDF}: 32.0/24$

Out: 0.259 ± 0.048 $\chi^2/\text{NDF}: 18.5/26$

All: 0.213 ± 0.033 $\chi^2/\text{NDF}: 52.5/51$

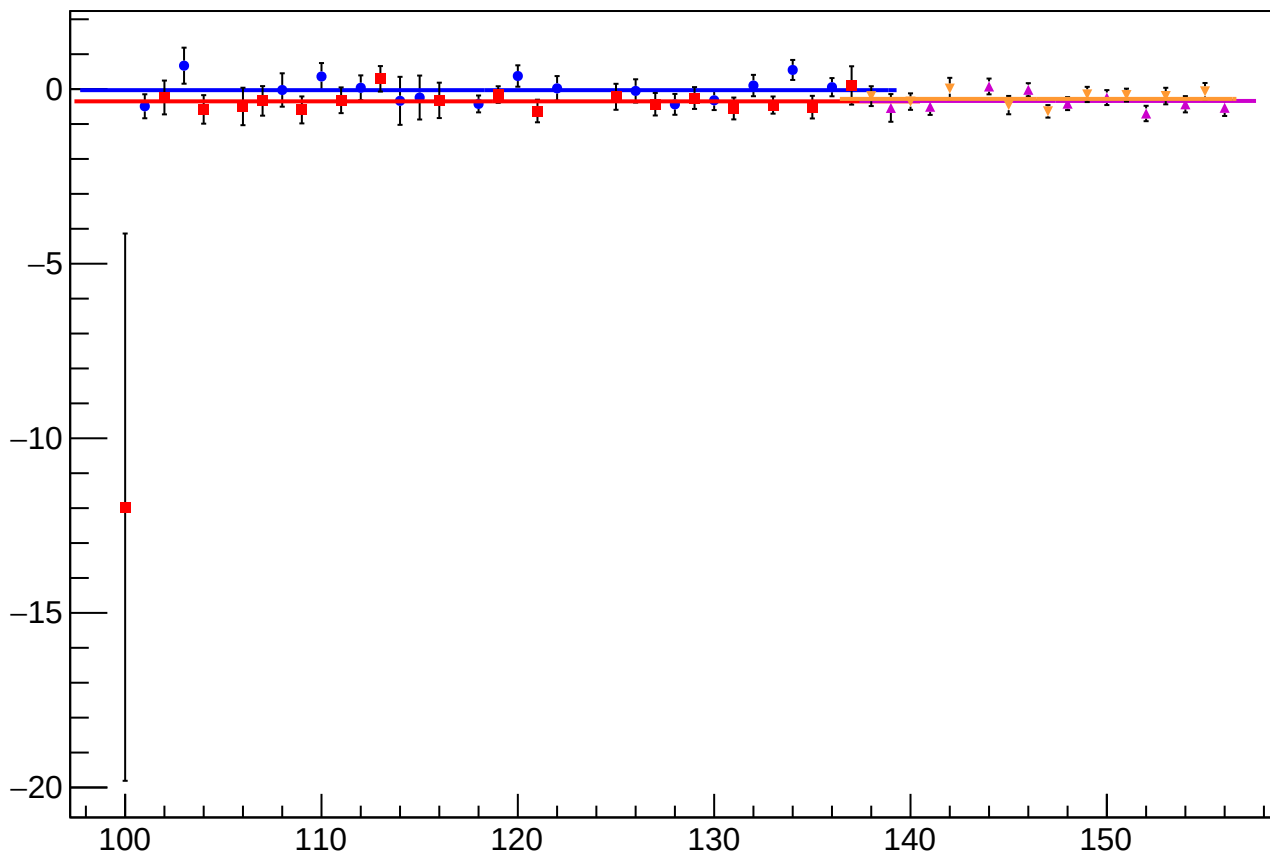
reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.154 $\pm$ 0.080 χ^2 /NDF: 15.6/15
 Left Out: -0.158 $\pm$ 0.091 χ^2 /NDF:14.1/8
 Right Out: 0.065 $\pm$ 0.081 χ^2 /NDF: 109.3/17
 Left In: -0.150 $\pm$ 0.088 χ^2 /NDF:9.9/8

Left: -0.154 $\pm$ 0.063 χ^2 /NDF: 24.0/17
 Right: 0.110 $\pm$ 0.057 χ^2 /NDF: 125.5/33
 In: 0.016 $\pm$ 0.059 χ^2 /NDF:32.0/24
 Out: -0.033 $\pm$ 0.060 χ^2 /NDF:126.8/26
 All: -0.008 $\pm$ 0.042 χ^2 /NDF: 159.2/51

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.030 ± 0.084 $\chi^2/\text{NDF}: 16.8/15$

Left Out: -0.280 ± 0.076 $\chi^2/\text{NDF}: 7.1/8$

Right Out: -0.350 ± 0.085 $\chi^2/\text{NDF}: 9.4/17$

Left In: -0.339 ± 0.074 $\chi^2/\text{NDF}: 10.9/8$

Left: -0.310 ± 0.053 $\chi^2/\text{NDF}: 18.3/17$

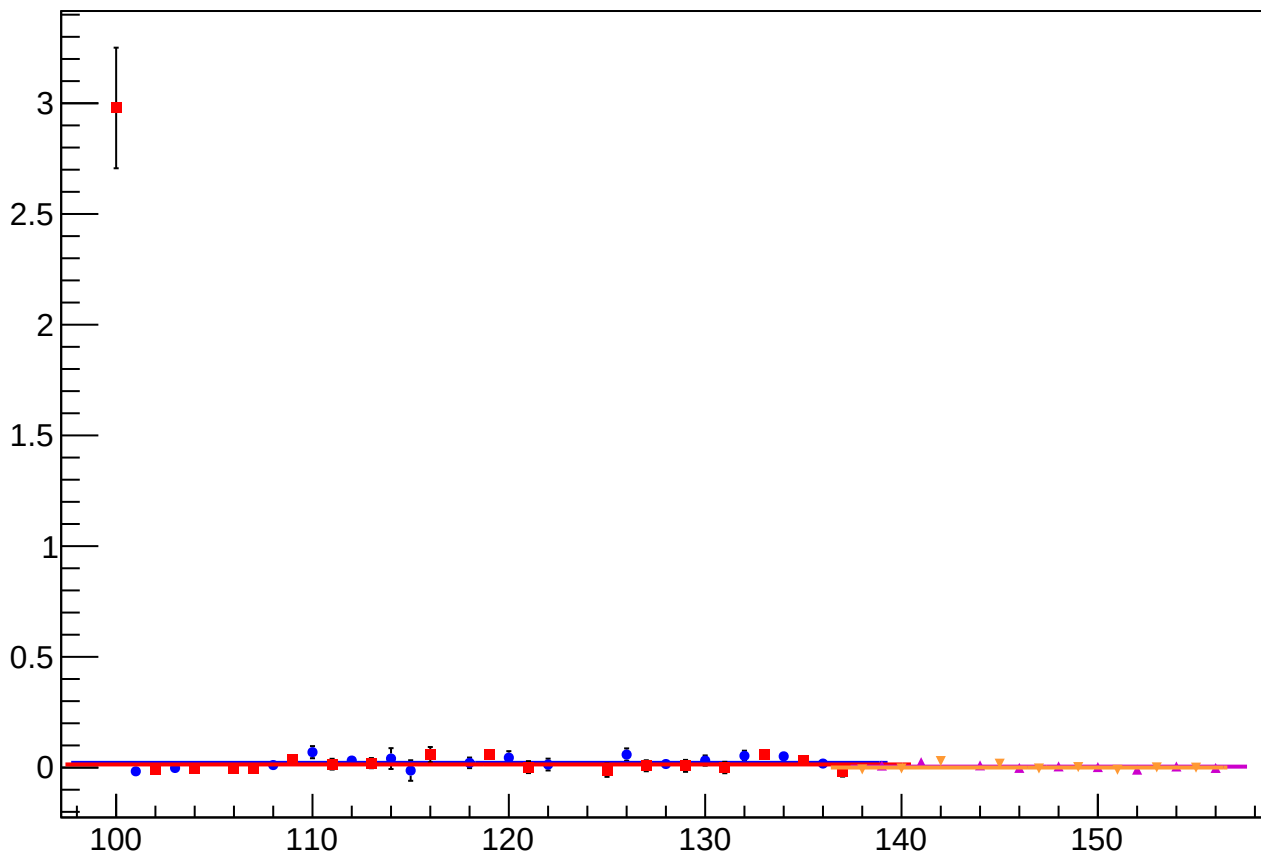
Right: -0.188 ± 0.060 $\chi^2/\text{NDF}: 33.4/33$

In: -0.203 ± 0.056 $\chi^2/\text{NDF}: 35.2/24$

Out: -0.312 ± 0.057 $\chi^2/\text{NDF}: 16.9/26$

All: -0.256 ± 0.040 $\chi^2/\text{NDF}: 54.0/51$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.021 $\pm$ 0.005 χ^2 /NDF: 22.5/15

Left Out: 0.000 $\pm$ 0.004 χ^2 /NDF: 7.7/8

Right Out: 0.014 $\pm$ 0.005 χ^2 /NDF: 140.9/17

Left In: 0.004 $\pm$ 0.003 χ^2 /NDF: 6.6/8

Left: 0.002 $\pm$ 0.002 χ^2 /NDF: 15.0/17

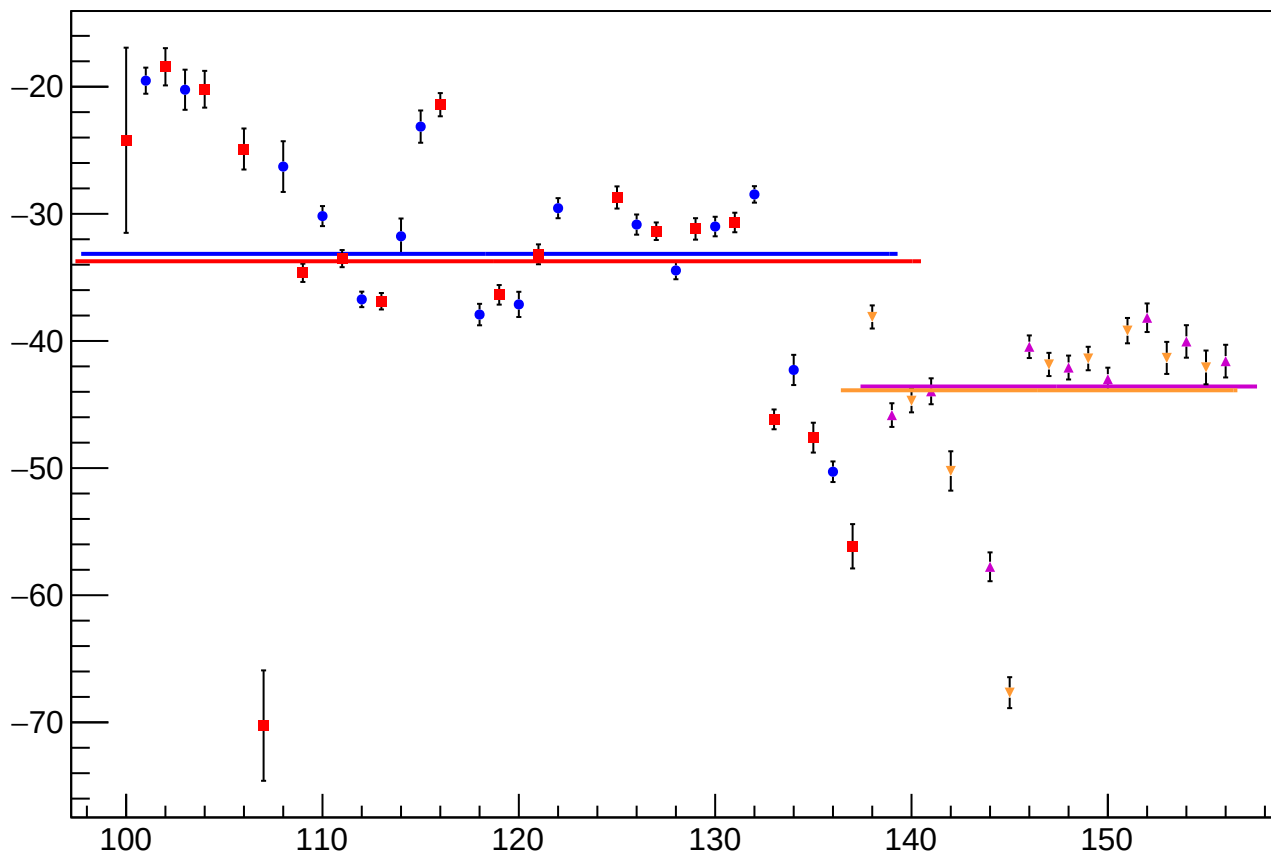
Right: 0.018 $\pm$ 0.003 χ^2 /NDF: 164.5/33

In: 0.010 $\pm$ 0.003 χ^2 /NDF: 37.5/24

Out: 0.005 $\pm$ 0.003 χ^2 /NDF: 153.8/26

All: 0.008 $\pm$ 0.002 χ^2 /NDF: 192.7/51

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.148 ± 0.218 χ^2/NDF : 1013.9/15

Left Out: -43.880 ± 0.352 χ^2/NDF : 479.8/8

Right Out: -33.730 ± 0.215 χ^2/NDF : 1148.4/17

Left In: -43.581 ± 0.343 χ^2/NDF : 210.9/8

Left: -43.727 ± 0.246 χ^2/NDF : 691.1/17

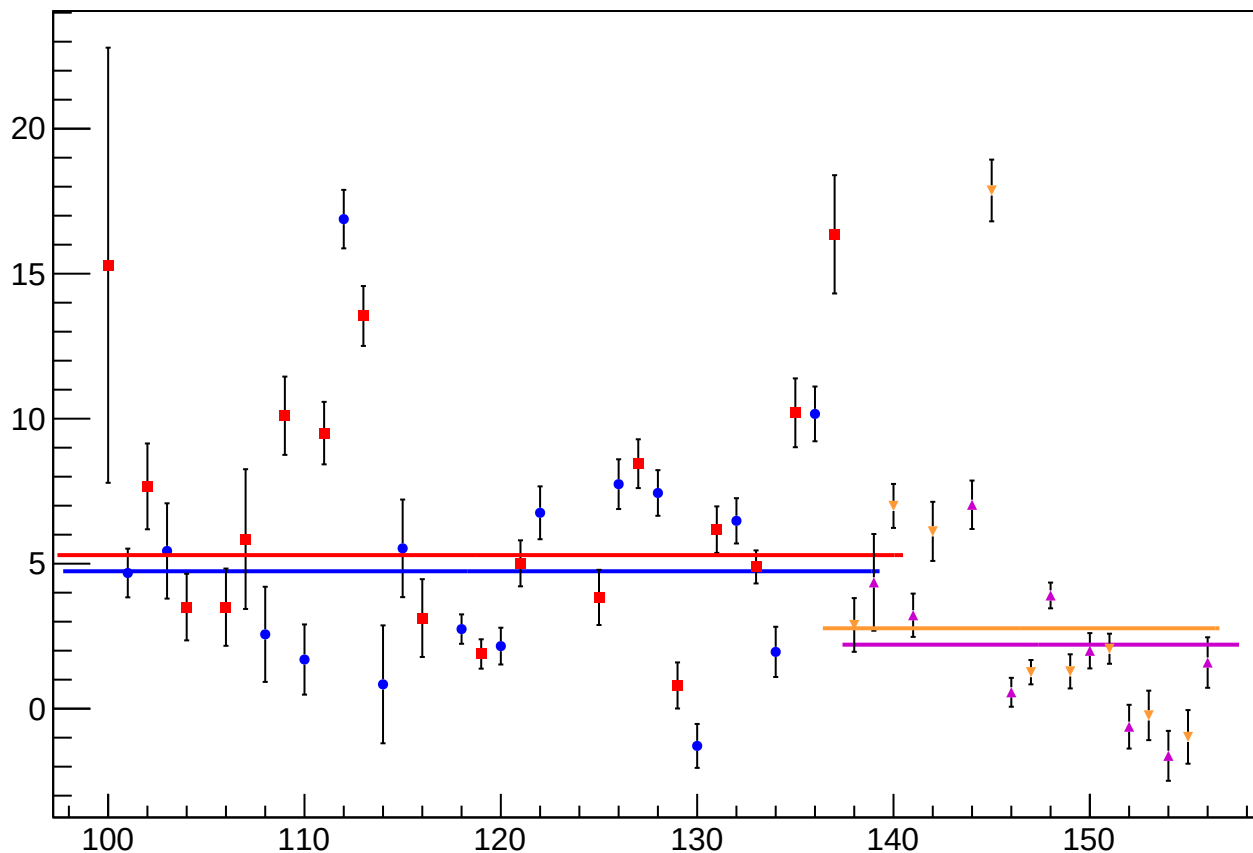
Right: -33.443 ± 0.153 χ^2/NDF : 2166.0/33

In: -36.151 ± 0.184 χ^2/NDF : 1884.3/24

Out: -36.488 ± 0.183 χ^2/NDF : 2234.5/26

All: -36.320 ± 0.130 χ^2/NDF : 4120.5/51

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: 2.772 $\pm$ 0.226 χ^2/NDF : 293.1/8

Right Out: 5.295 $\pm$ 0.223 χ^2/NDF : 245.0/17

Left In: 2.207 $\pm$ 0.225 χ^2/NDF : 96.8/8

Left: 2.488 $\pm$ 0.159 χ^2/NDF : 393.1/17

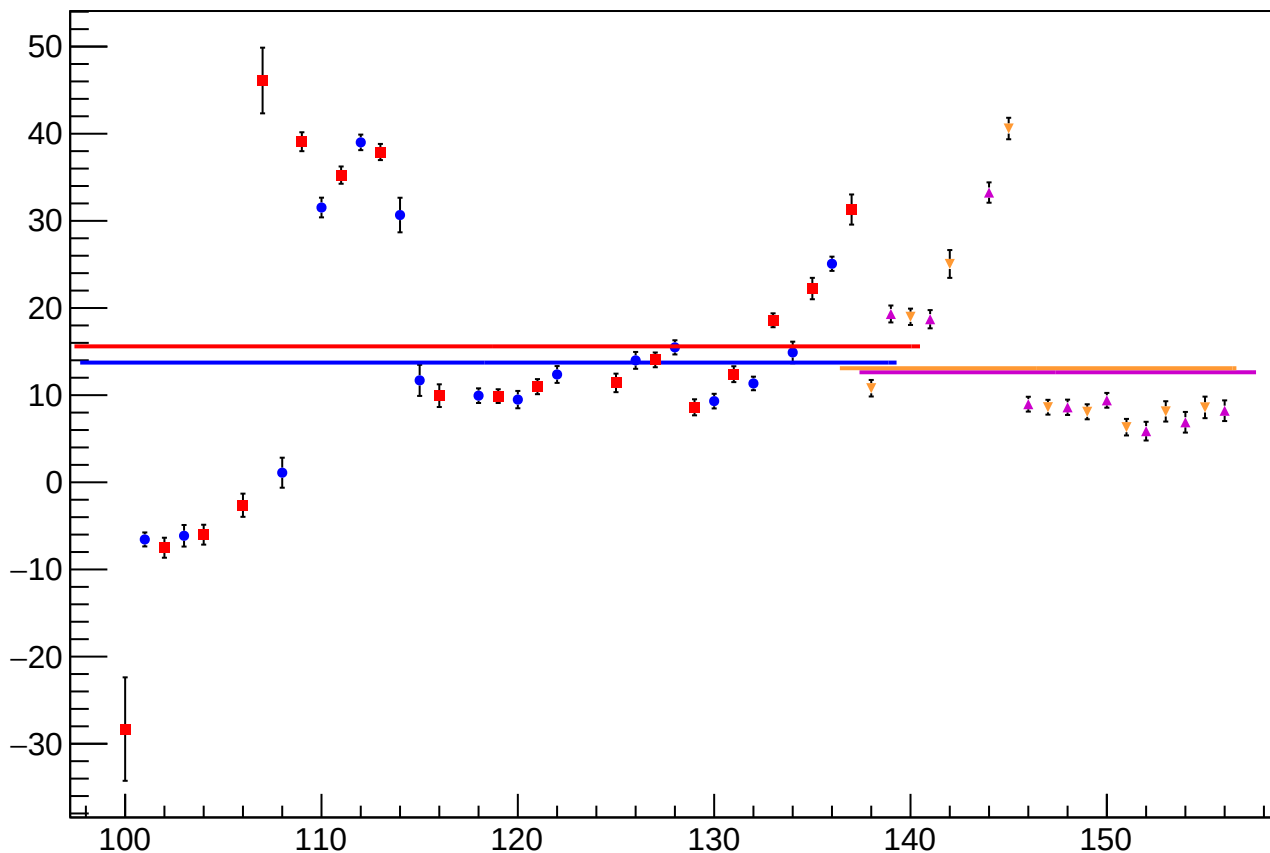
Right: 5.012 $\pm$ 0.156 χ^2/NDF : 577.8/33

In: 3.504 $\pm$ 0.157 χ^2/NDF : 491.5/24

Out: 4.049 $\pm$ 0.159 χ^2/NDF : 601.2/26

All: 3.773 $\pm$ 0.112 χ^2/NDF : 1098.6/51

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: 13.091 $\pm$ 0.343 χ^2 /NDF: 743.0/8

Right Out: 15.599 $\pm$ 0.250 χ^2 /NDF: 2826.3/17

Left In: 12.627 $\pm$ 0.332 χ^2 /NDF: 524.1/8

Left: 12.852 $\pm$ 0.239 χ^2 /NDF: 1268.1/17

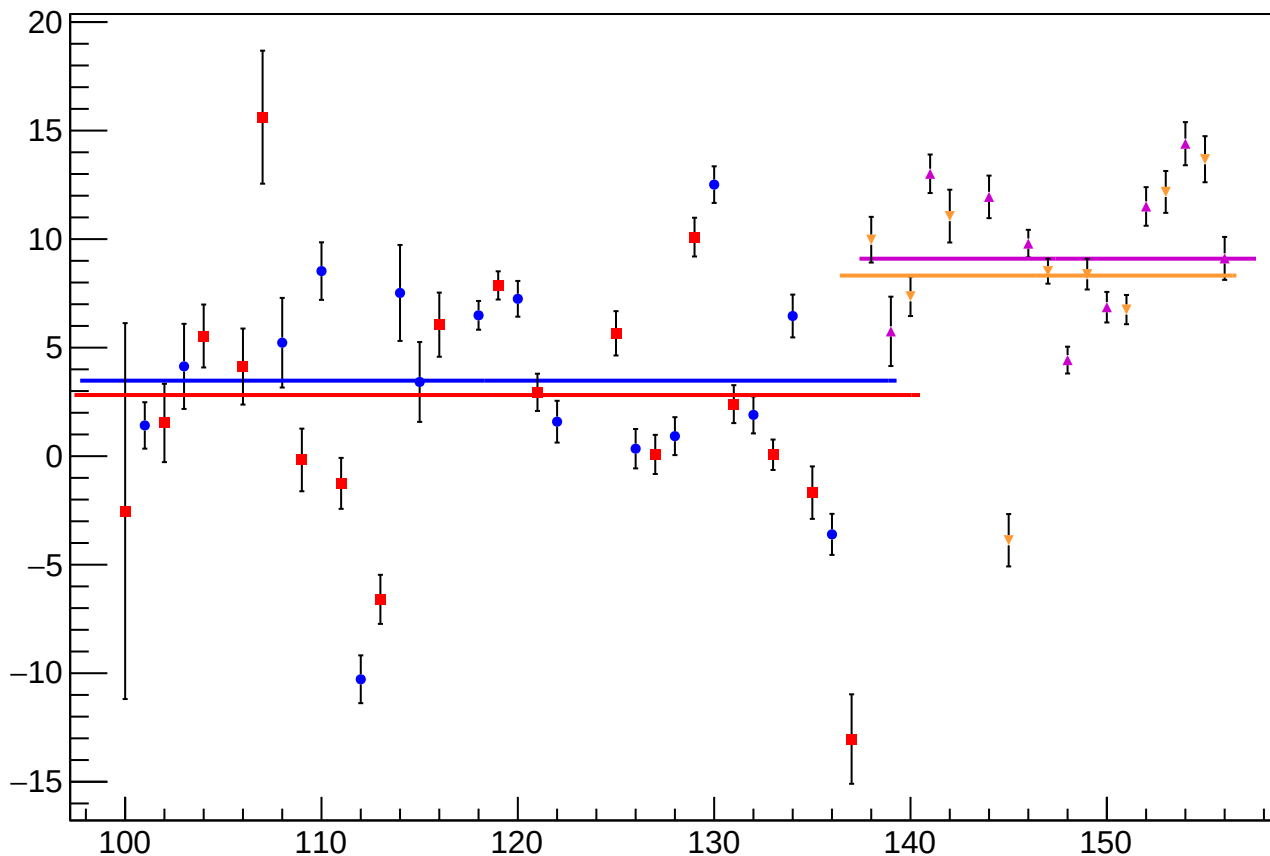
Right: 14.656 $\pm$ 0.176 χ^2 /NDF: 5204.2/33

In: 13.343 $\pm$ 0.198 χ^2 /NDF: 2881.2/24

Out: 14.727 $\pm$ 0.202 χ^2 /NDF: 3604.3/26

All: 14.022 $\pm$ 0.141 χ^2 /NDF: 6509.4/51

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.479 $\pm$ 0.254 χ^2 /NDF: 427.6/15

Left Out: 8.320 $\pm$ 0.281 χ^2 /NDF:157.8/8

Right Out: 2.817 $\pm$ 0.257 χ^2 /NDF: 345.3/17

Left In: 9.098 $\pm$ 0.276 χ^2 /NDF:136.5/8

Left: 8.716 $\pm$ 0.197 χ^2 /NDF: 298.2/17

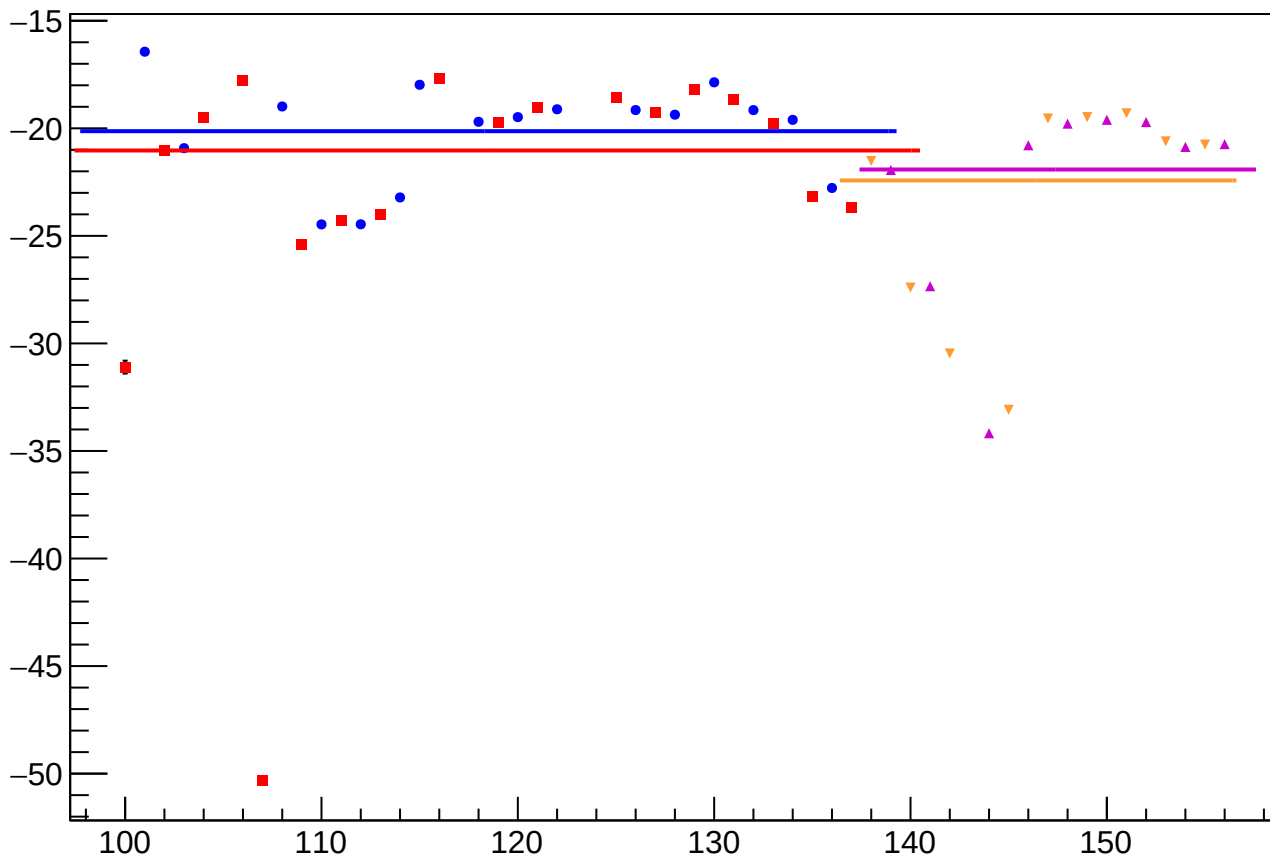
Right: 3.153 $\pm$ 0.181 χ^2 /NDF: 776.3/33

In: 6.051 $\pm$ 0.187 χ^2 /NDF:788.7/24

Out: 5.325 $\pm$ 0.190 χ^2 /NDF:711.7/26

All: 5.694 $\pm$ 0.133 χ^2 /NDF: 1507.9/51

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: -22.423 ± 0.014 χ^2/NDF : 101067.6/8

Right Out: -21.031 ± 0.016 χ^2/NDF : 57523.6/17

Left In: -21.915 ± 0.013 χ^2/NDF : 84689.2/8

Left: -22.151 ± 0.009 χ^2/NDF : 186491.8/17

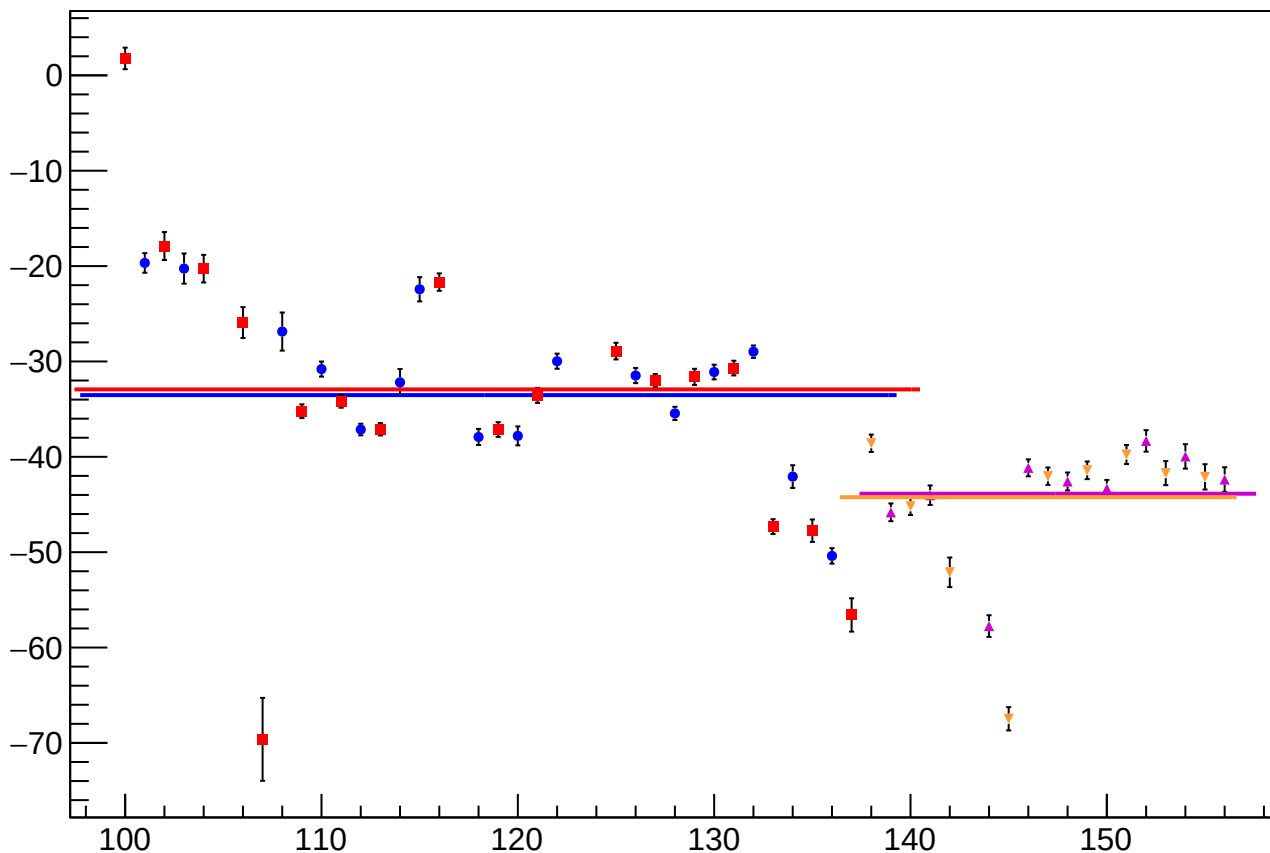
Right: -20.570 ± 0.011 χ^2/NDF : 78882.9/33

In: -21.222 ± 0.010 χ^2/NDF : 112085.2/24

Out: -21.853 ± 0.011 χ^2/NDF : 162820.5/26

All: -21.520 ± 0.007 χ^2/NDF : 276793.6/51

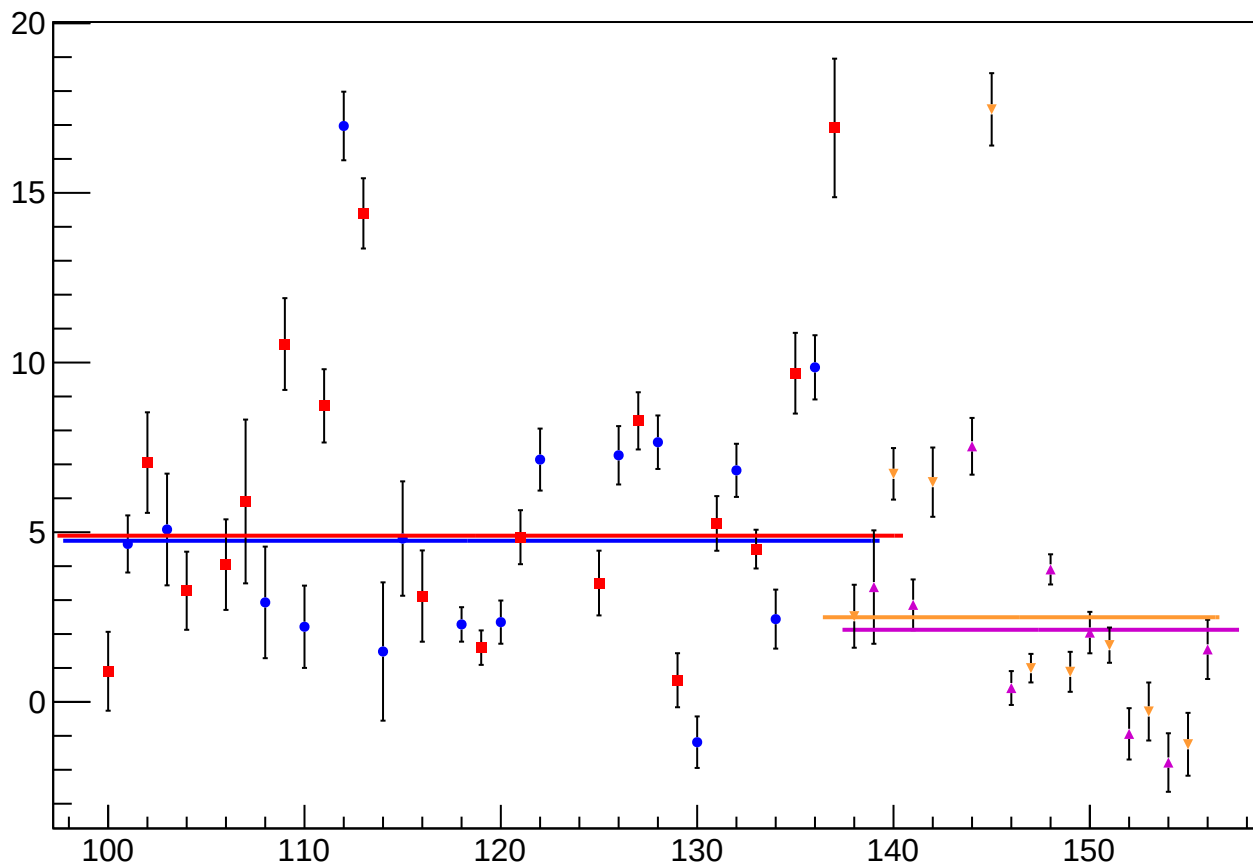
reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.528 ± 0.218 χ^2/NDF : 1008.7/15
 Left Out: -44.237 ± 0.352 χ^2/NDF : 469.7/8
 Right Out: -32.931 ± 0.212 χ^2/NDF : 2170.0/17
 Left In: -43.869 ± 0.344 χ^2/NDF : 200.1/8

Left: -44.049 ± 0.246 χ^2/NDF : 670.4/17
 Right: -33.220 ± 0.152 χ^2/NDF : 3182.6/33
 In: -36.505 ± 0.184 χ^2/NDF : 1854.0/24
 Out: -35.927 ± 0.181 χ^2/NDF : 3396.4/26
 All: -36.212 ± 0.129 χ^2/NDF : 5255.4/51

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.748 ± 0.220 χ^2/NDF : 325.7/15

Left Out: 2.495 ± 0.226 χ^2/NDF : 292.6/8

Right Out: 4.898 ± 0.220 χ^2/NDF : 273.1/17

Left In: 2.125 ± 0.225 χ^2/NDF : 108.6/8

Left: 2.309 ± 0.160 χ^2/NDF : 402.6/17

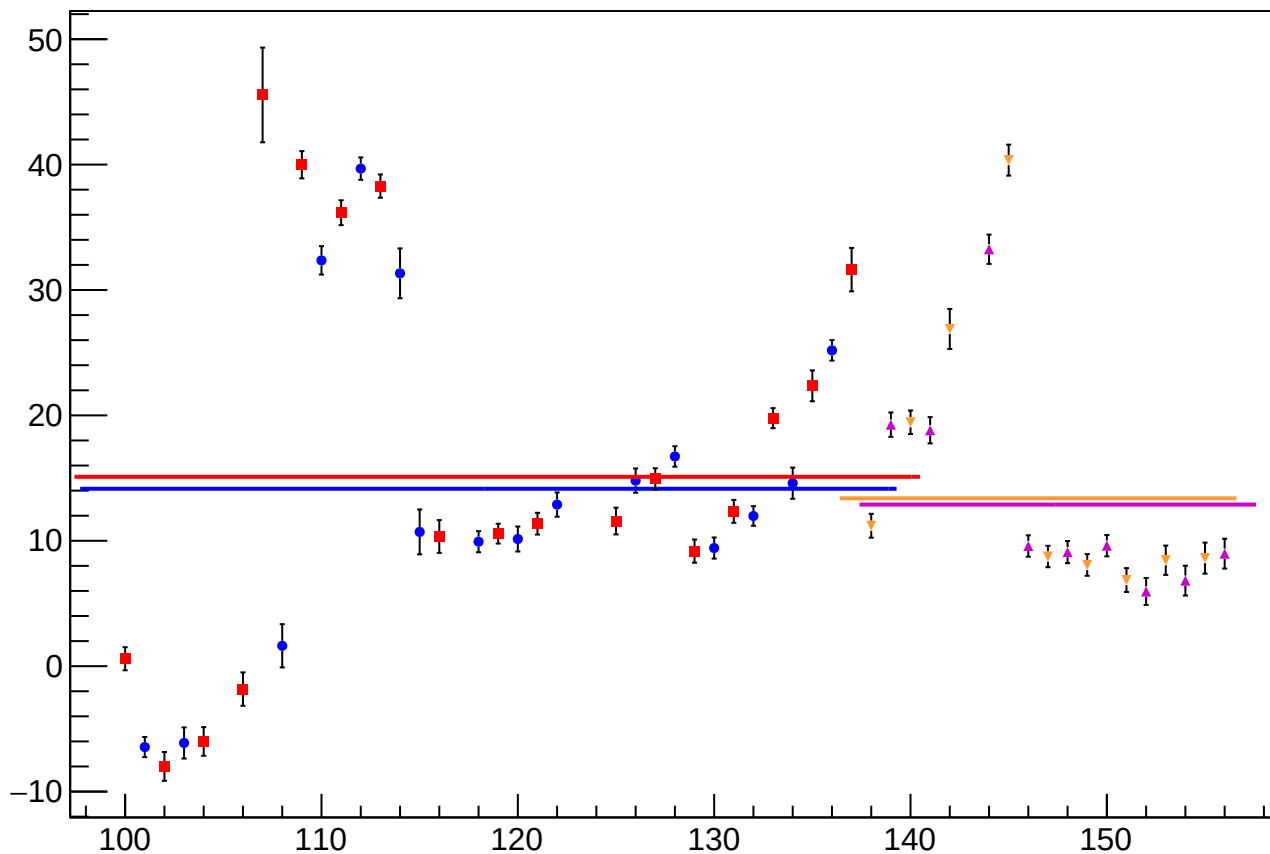
Right: 4.823 ± 0.155 χ^2/NDF : 599.0/33

In: 3.469 ± 0.157 χ^2/NDF : 503.9/24

Out: 3.731 ± 0.158 χ^2/NDF : 623.7/26

All: 3.600 ± 0.111 χ^2/NDF : 1129.0/51

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: 13.386 $\pm$ 0.343 χ^2 /NDF: 742.3/8

Right Out: 15.103 $\pm$ 0.242 χ^2 /NDF: 3102.3/17

Left In: 12.888 $\pm$ 0.333 χ^2 /NDF: 505.0/8

Left: 13.129 $\pm$ 0.239 χ^2 /NDF: 1248.4/17

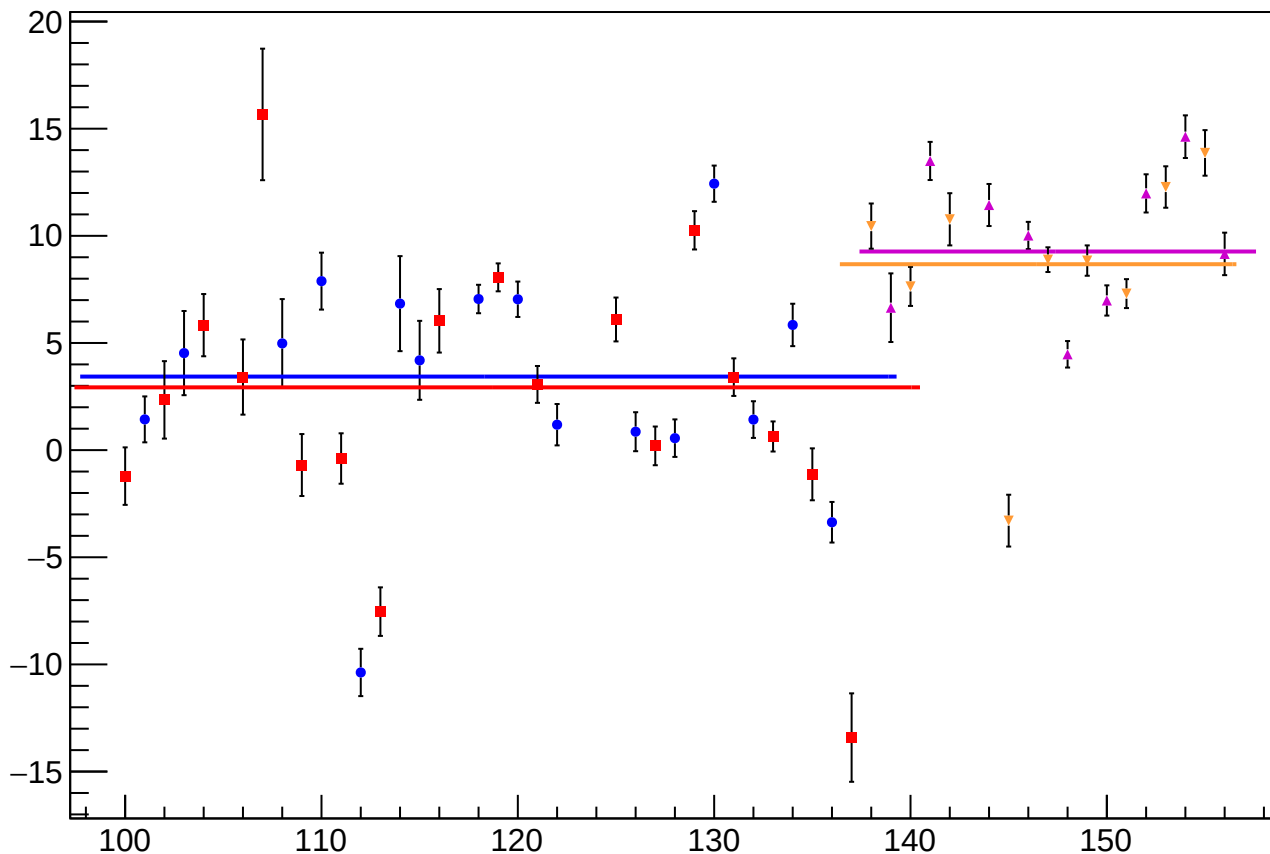
Right: 14.636 $\pm$ 0.173 χ^2 /NDF: 5512.3/33

In: 13.701 $\pm$ 0.199 χ^2 /NDF: 2916.6/24

Out: 14.533 $\pm$ 0.198 χ^2 /NDF: 3861.3/26

All: 14.118 $\pm$ 0.140 χ^2 /NDF: 6786.8/51

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.432 ± 0.254 $\chi^2/\text{NDF}: 424.0/15$

Left Out: 8.675 ± 0.282 $\chi^2/\text{NDF}: 147.1/8$

Right Out: 2.929 ± 0.253 $\chi^2/\text{NDF}: 367.7/17$

Left In: 9.268 ± 0.277 $\chi^2/\text{NDF}: 140.4/8$

Left: 8.977 ± 0.197 $\chi^2/\text{NDF}: 289.8/17$

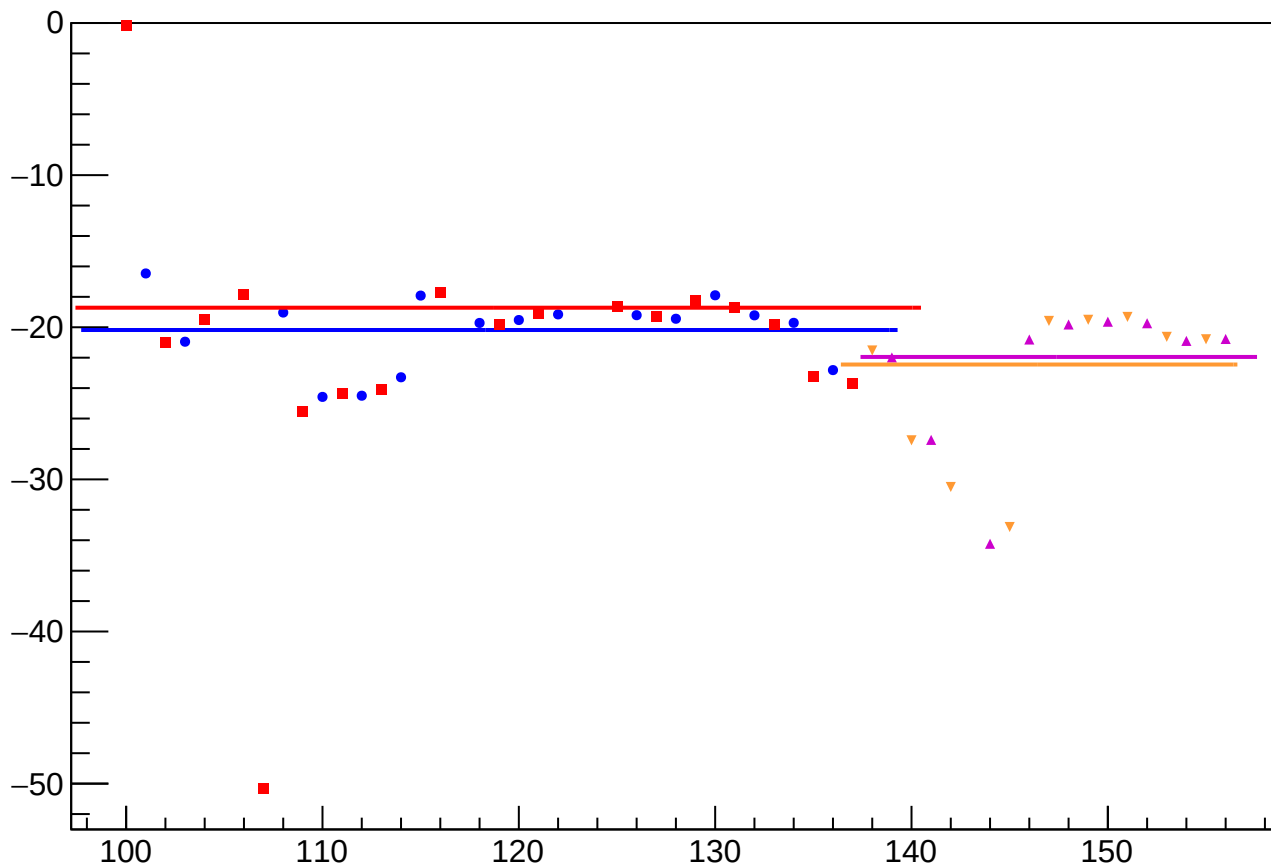
Right: 3.179 ± 0.179 $\chi^2/\text{NDF}: 793.7/33$

In: 6.104 ± 0.187 $\chi^2/\text{NDF}: 805.7/24$

Out: 5.499 ± 0.188 $\chi^2/\text{NDF}: 745.0/26$

All: 5.804 ± 0.133 $\chi^2/\text{NDF}: 1555.9/51$

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.180 ± 0.016 $\chi^2/\text{NDF}: 19856.9/15$

Left Out: -22.449 ± 0.014 $\chi^2/\text{NDF}: 100862.2/8$

Right Out: -18.714 ± 0.016 $\chi^2/\text{NDF}: 234667.0/17$

Left In: -21.951 ± 0.013 $\chi^2/\text{NDF}: 84838.5/8$

Left: -22.183 ± 0.009 $\chi^2/\text{NDF}: 186405.0/17$

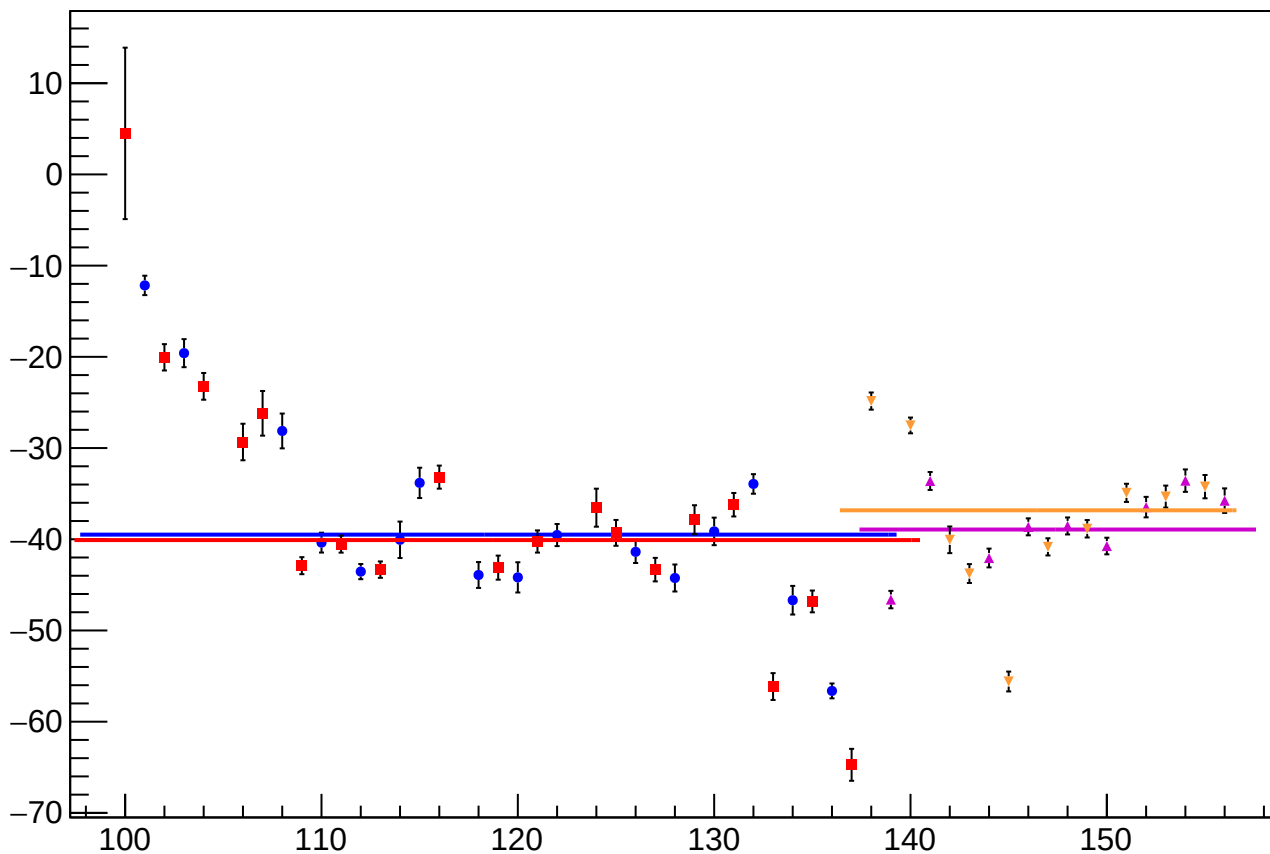
Right: -19.425 ± 0.011 $\chi^2/\text{NDF}: 258824.1/33$

In: -21.262 ± 0.010 $\chi^2/\text{NDF}: 112131.2/24$

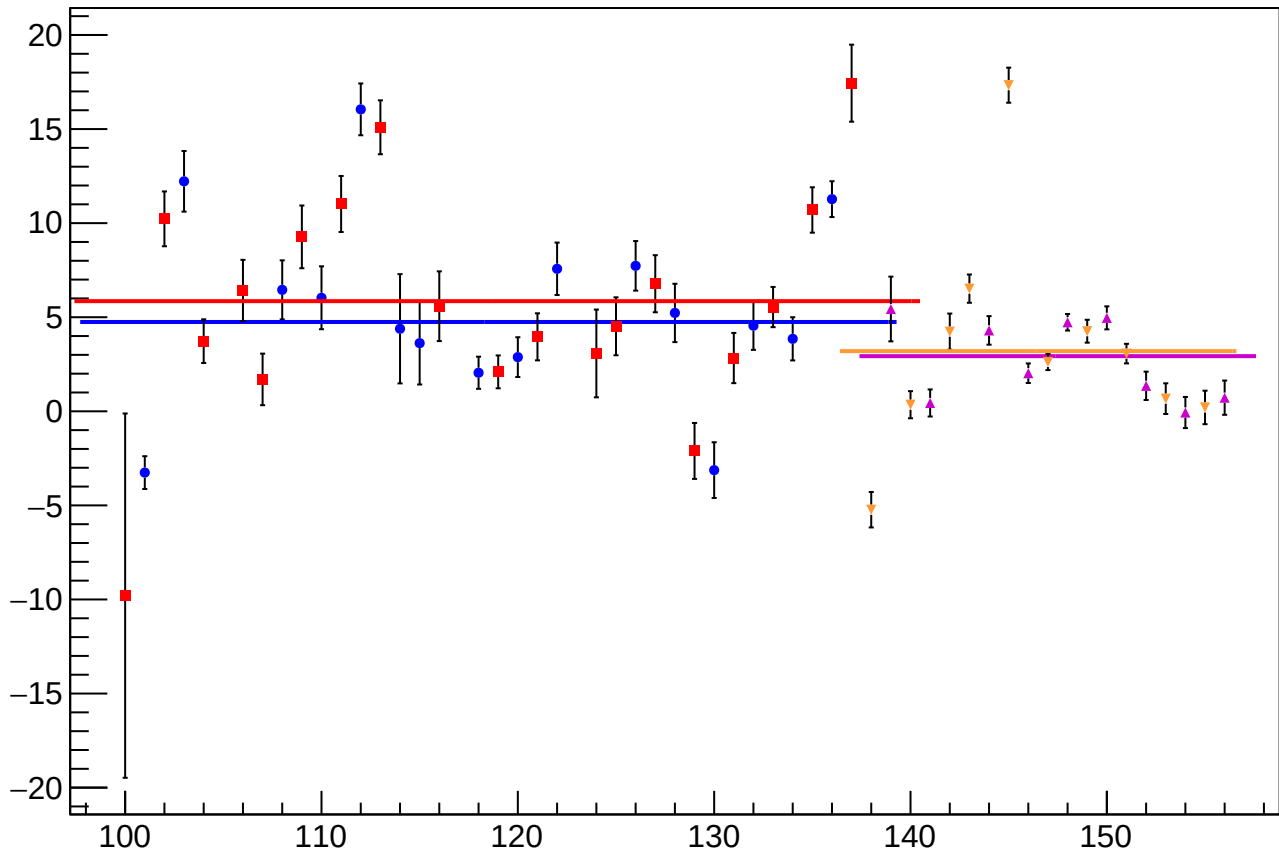
Out: -20.814 ± 0.010 $\chi^2/\text{NDF}: 367907.3/26$

All: -21.045 ± 0.007 $\chi^2/\text{NDF}: 481011.8/51$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: 3.199 ± 0.215 χ^2/NDF : 372.0/9

Right Out: 5.854 ± 0.324 χ^2/NDF : 187.6/18

Left In: 2.931 ± 0.224 χ^2/NDF : 71.6/8

Left: 3.070 ± 0.155 χ^2/NDF : 444.3/18

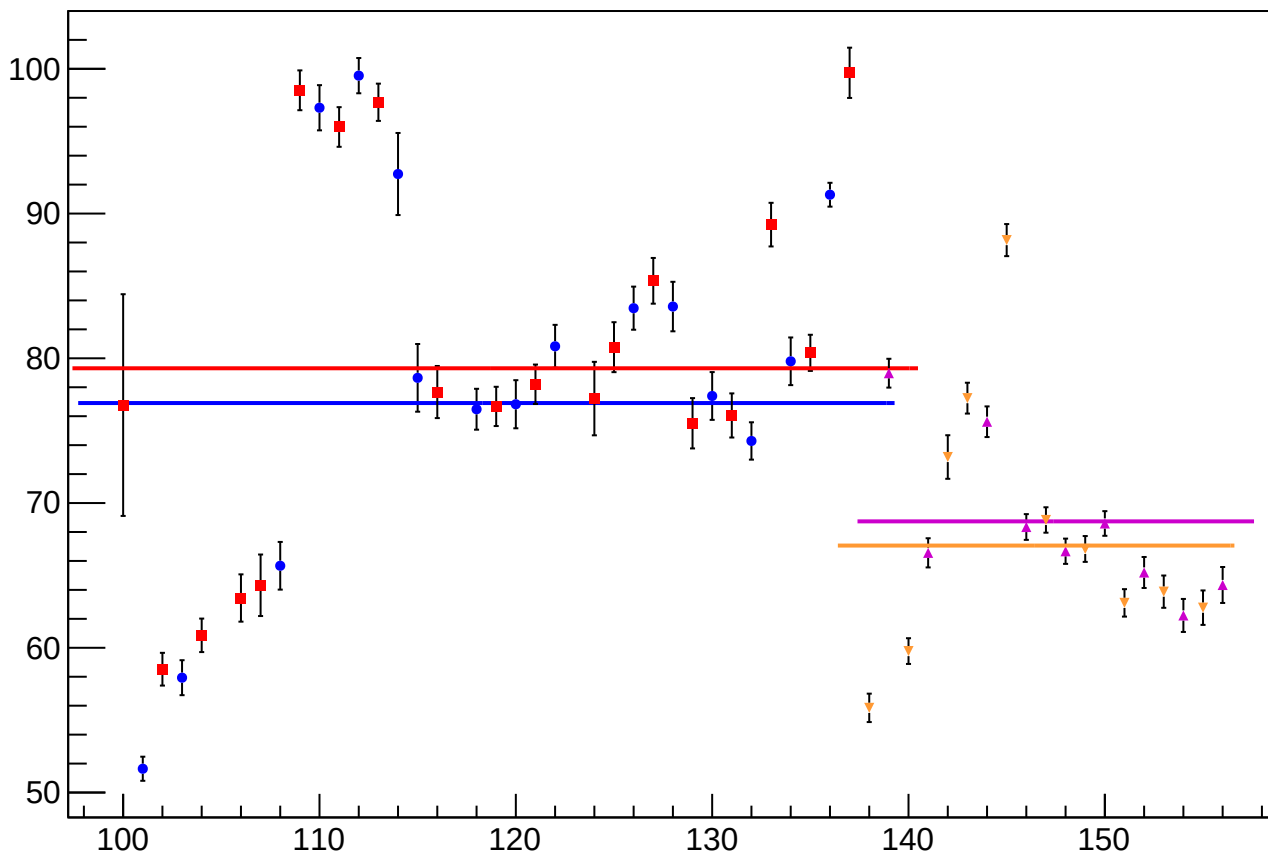
Right: 5.287 ± 0.226 χ^2/NDF : 467.4/34

In: 3.537 ± 0.183 χ^2/NDF : 367.5/24

Out: 4.013 ± 0.179 χ^2/NDF : 606.2/28

All: 3.779 ± 0.128 χ^2/NDF : 977.1/53

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.909 $\pm$ 0.337 χ^2 /NDF: 2116.0/15

Left Out: 67.062 $\pm$ 0.323 χ^2 /NDF: 711.1/9

Right Out: 79.311 $\pm$ 0.348 χ^2 /NDF: 1496.4/18

Left In: 68.734 $\pm$ 0.331 χ^2 /NDF: 214.3/8

Left: 67.877 $\pm$ 0.231 χ^2 /NDF: 938.5/18

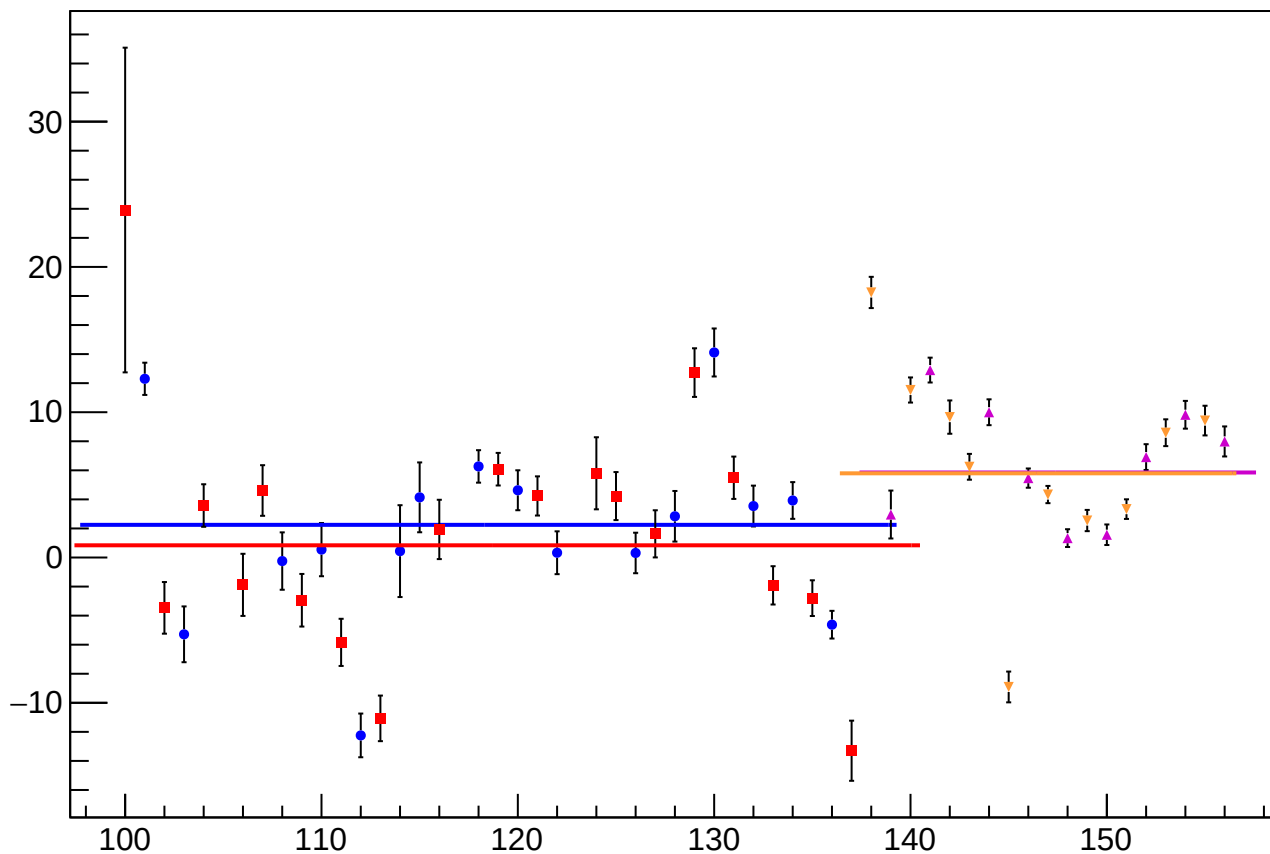
Right: 78.071 $\pm$ 0.242 χ^2 /NDF: 3636.9/34

In: 72.749 $\pm$ 0.236 χ^2 /NDF: 2630.0/24

Out: 72.724 $\pm$ 0.236 χ^2 /NDF: 2874.1/28

All: 72.737 $\pm$ 0.167 χ^2 /NDF: 5504.1/53

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: 5.822 ± 0.191 $\chi^2/\text{NDF}: 650.5/18$

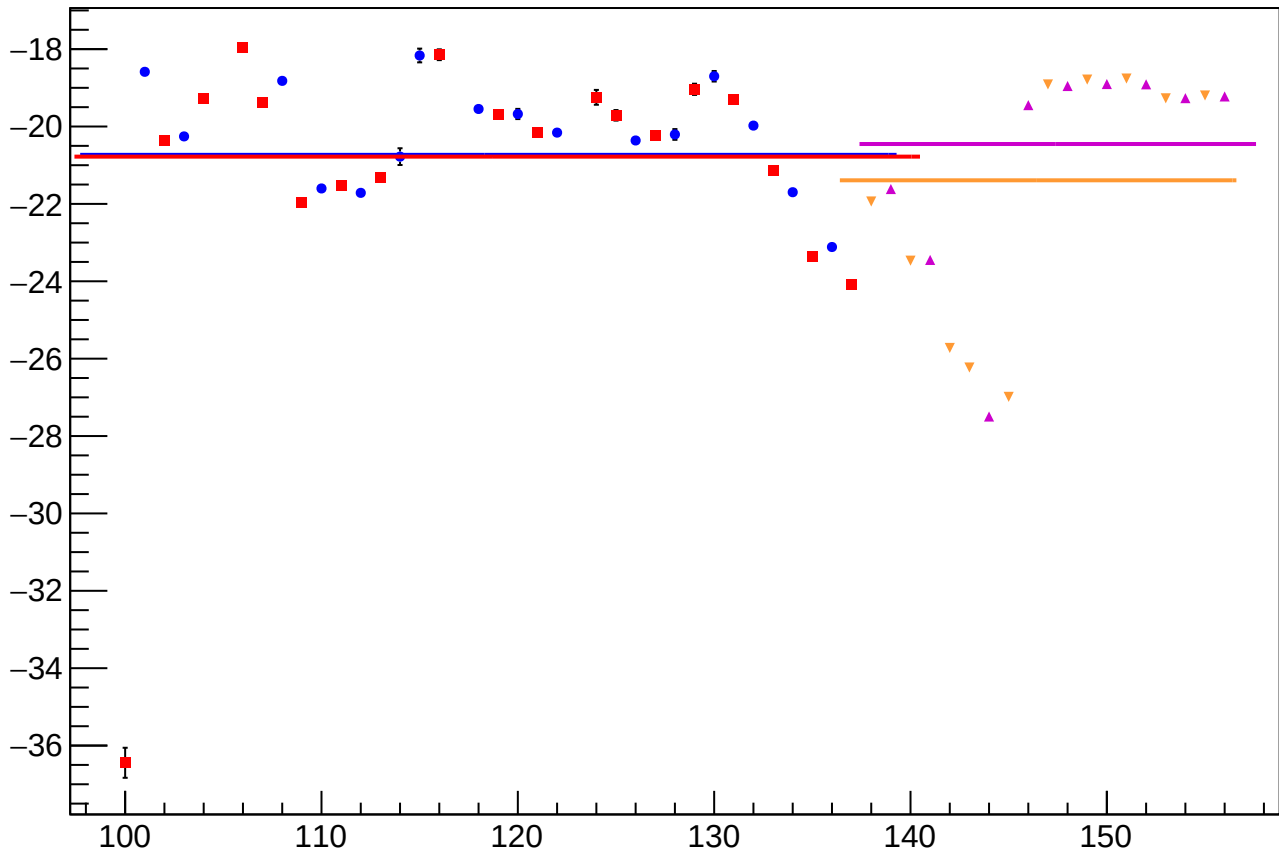
Right: 1.561 ± 0.260 $\chi^2/\text{NDF}: 583.2/34$

In: 4.540 ± 0.219 $\chi^2/\text{NDF}: 589.5/24$

Out: 4.121 ± 0.216 $\chi^2/\text{NDF}: 816.9/28$

All: 4.327 ± 0.154 $\chi^2/\text{NDF}: 1408.2/53$

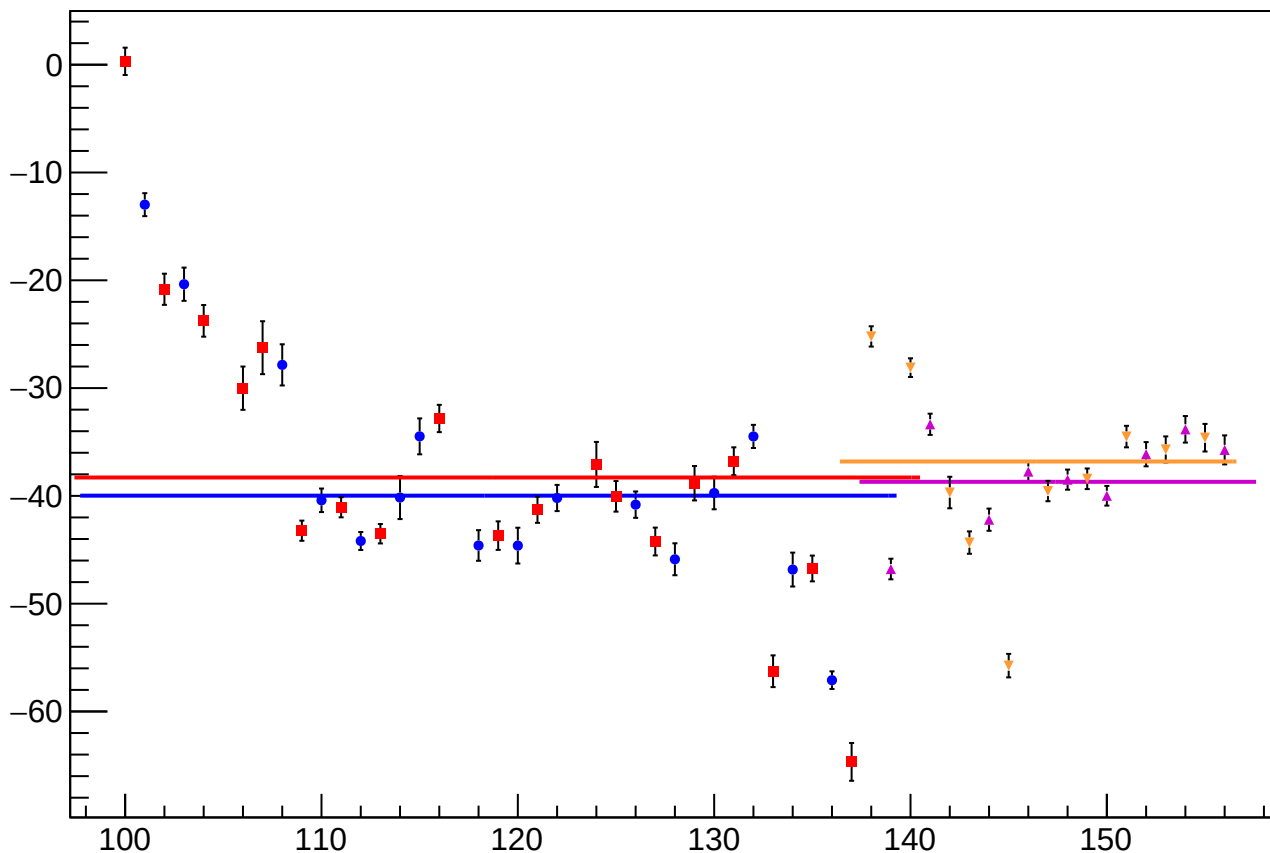
reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.732 ± 0.019 $\chi^2/\text{NDF}: 7634.1/15$
 Left Out: -21.390 ± 0.013 $\chi^2/\text{NDF}: 55988.4/9$
 Right Out: -20.778 ± 0.020 $\chi^2/\text{NDF}: 9426.6/18$
 Left In: -20.452 ± 0.013 $\chi^2/\text{NDF}: 36421.7/8$

Left: -20.915 ± 0.009 $\chi^2/\text{NDF}: 95073.8/18$
 Right: -20.755 ± 0.014 $\chi^2/\text{NDF}: 17063.4/34$
 In: -20.537 ± 0.011 $\chi^2/\text{NDF}: 44201.2/24$
 Out: -21.212 ± 0.011 $\chi^2/\text{NDF}: 66066.4/28$
 All: -20.868 ± 0.008 $\chi^2/\text{NDF}: 112229.9/53$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.979 ± 0.311 χ^2/NDF : 1398.4/15

Left Out: -36.810 ± 0.329 χ^2/NDF : 631.2/9

Right Out: -38.295 ± 0.299 χ^2/NDF : 1773.8/18

Left In: -38.696 ± 0.342 χ^2/NDF : 141.2/8

Left: -37.718 ± 0.237 χ^2/NDF : 788.2/18

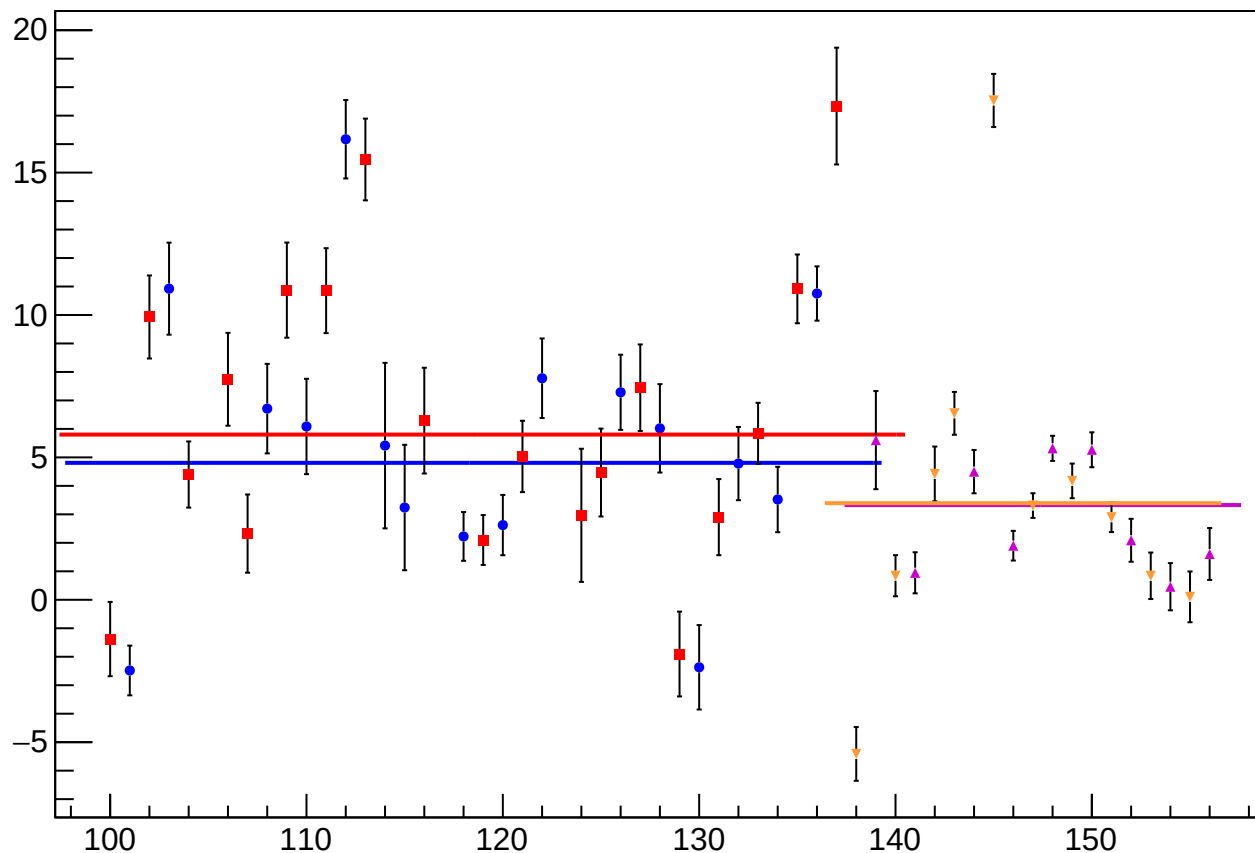
Right: -39.104 ± 0.216 χ^2/NDF : 3187.4/34

In: -39.398 ± 0.230 χ^2/NDF : 1547.4/24

Out: -37.624 ± 0.221 χ^2/NDF : 2416.0/28

All: -38.477 ± 0.160 χ^2/NDF : 3994.3/53

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.808 ± 0.315 χ^2/NDF : 240.5/15

Left Out: 3.393 ± 0.216 χ^2/NDF : 373.7/9

Right Out: 5.801 ± 0.315 χ^2/NDF : 216.4/18

Left In: 3.326 ± 0.224 χ^2/NDF : 71.3/8

Left: 3.361 ± 0.155 χ^2/NDF : 444.9/18

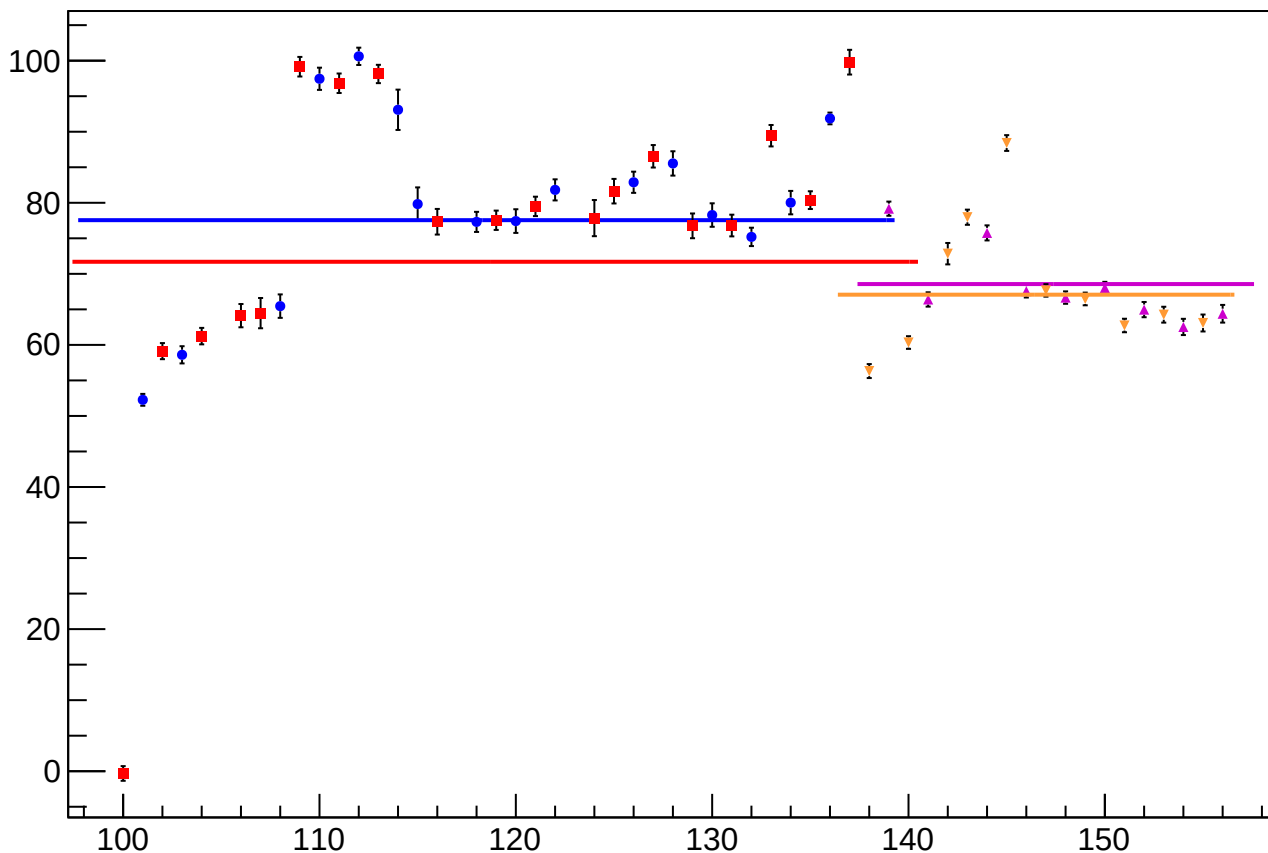
Right: 5.307 ± 0.223 χ^2/NDF : 461.9/34

In: 3.821 ± 0.183 χ^2/NDF : 326.4/24

Out: 4.161 ± 0.178 χ^2/NDF : 629.9/28

All: 3.996 ± 0.128 χ^2/NDF : 958.0/53

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 77.554 $\pm$ 0.337 χ^2 /NDF: 2118.3/15

Left Out: 67.067 $\pm$ 0.323 χ^2 /NDF:704.9/9

Right Out: 71.699 $\pm$ 0.330 χ^2 /NDF: 6903.5/18

Left In: 68.561 $\pm$ 0.332 χ^2 /NDF:220.7/8

Left: 67.795 $\pm$ 0.231 χ^2 /NDF: 936.0/18

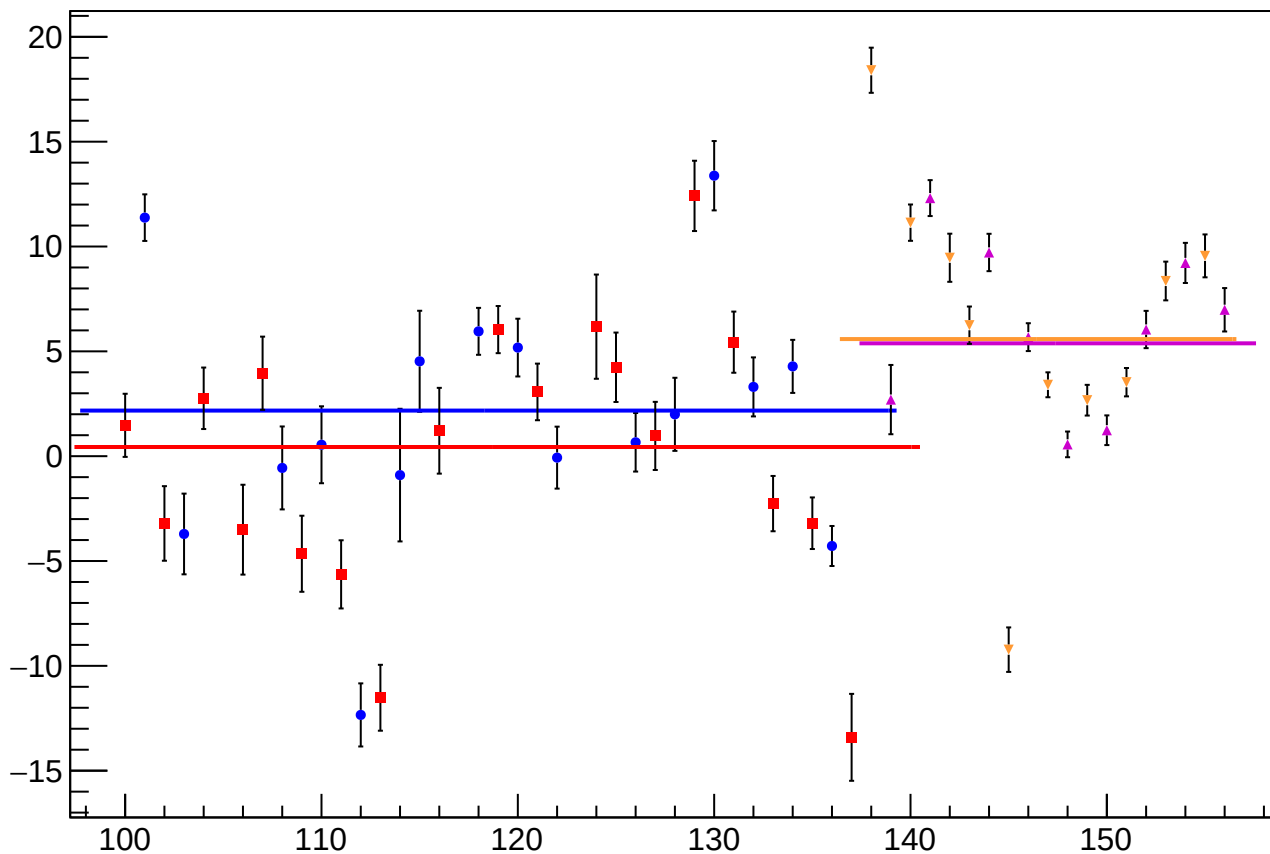
Right: 74.565 $\pm$ 0.236 χ^2 /NDF: 9175.5/34

In: 72.979 $\pm$ 0.236 χ^2 /NDF:2700.3/24

Out: 69.330 $\pm$ 0.231 χ^2 /NDF:7708.9/28

All: 71.112 $\pm$ 0.165 χ^2 /NDF: 10531.1/53

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: 5.586 ± 0.266 χ^2/NDF : 452.4/9

Right Out: 0.438 ± 0.362 χ^2/NDF : 254.1/18

Left In: 5.383 ± 0.275 χ^2/NDF : 207.0/8

Left: 5.488 ± 0.191 χ^2/NDF : 659.6/18

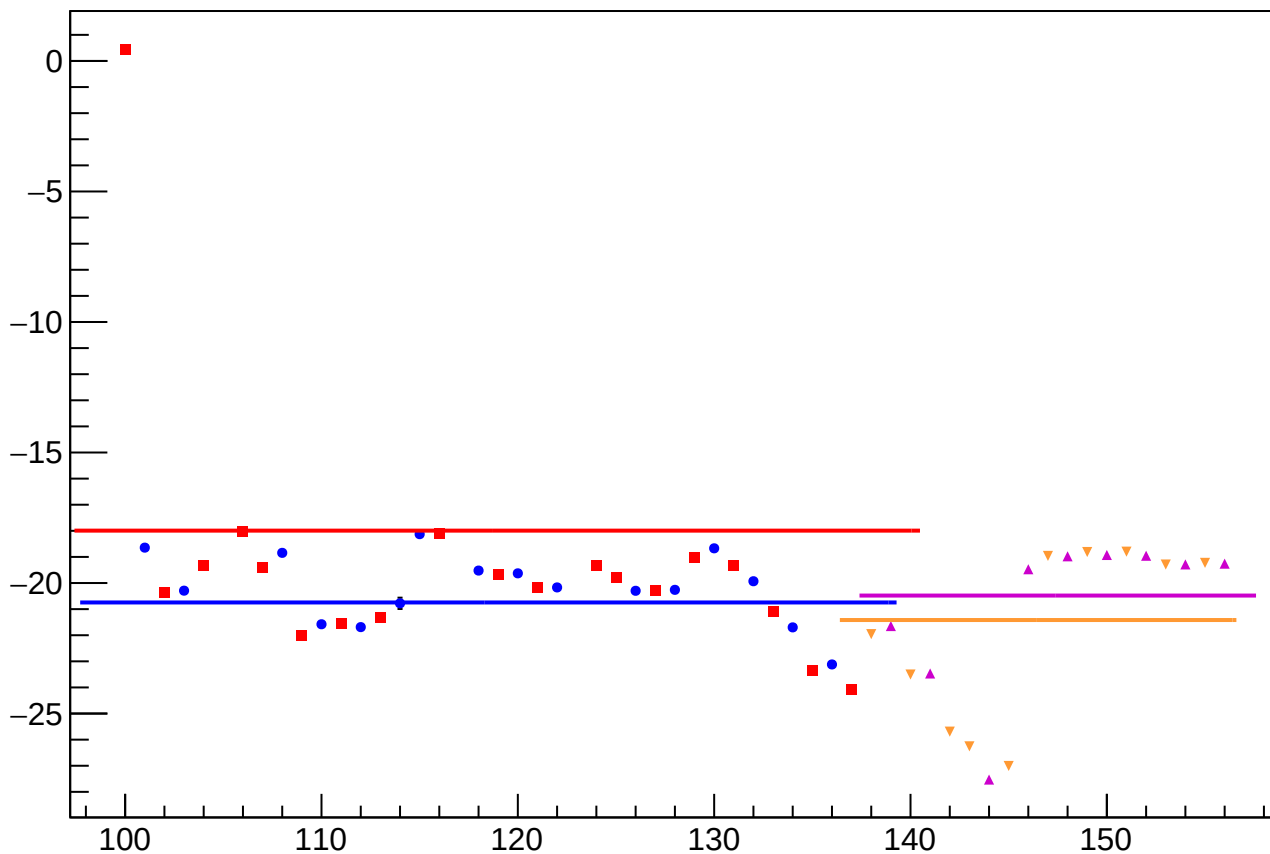
Right: 1.302 ± 0.257 χ^2/NDF : 555.9/34

In: 4.214 ± 0.219 χ^2/NDF : 546.7/24

Out: 3.779 ± 0.214 χ^2/NDF : 837.8/28

All: 3.991 ± 0.153 χ^2/NDF : 1386.6/53

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.745 ± 0.019 χ^2/NDF : 7513.6/15

Left Out: -21.418 ± 0.013 χ^2/NDF : 55585.1/9

Right Out: -17.993 ± 0.019 χ^2/NDF : 150579.1/18

Left In: -20.480 ± 0.013 χ^2/NDF : 36299.8/8

Left: -20.943 ± 0.009 χ^2/NDF : 94535.6/18

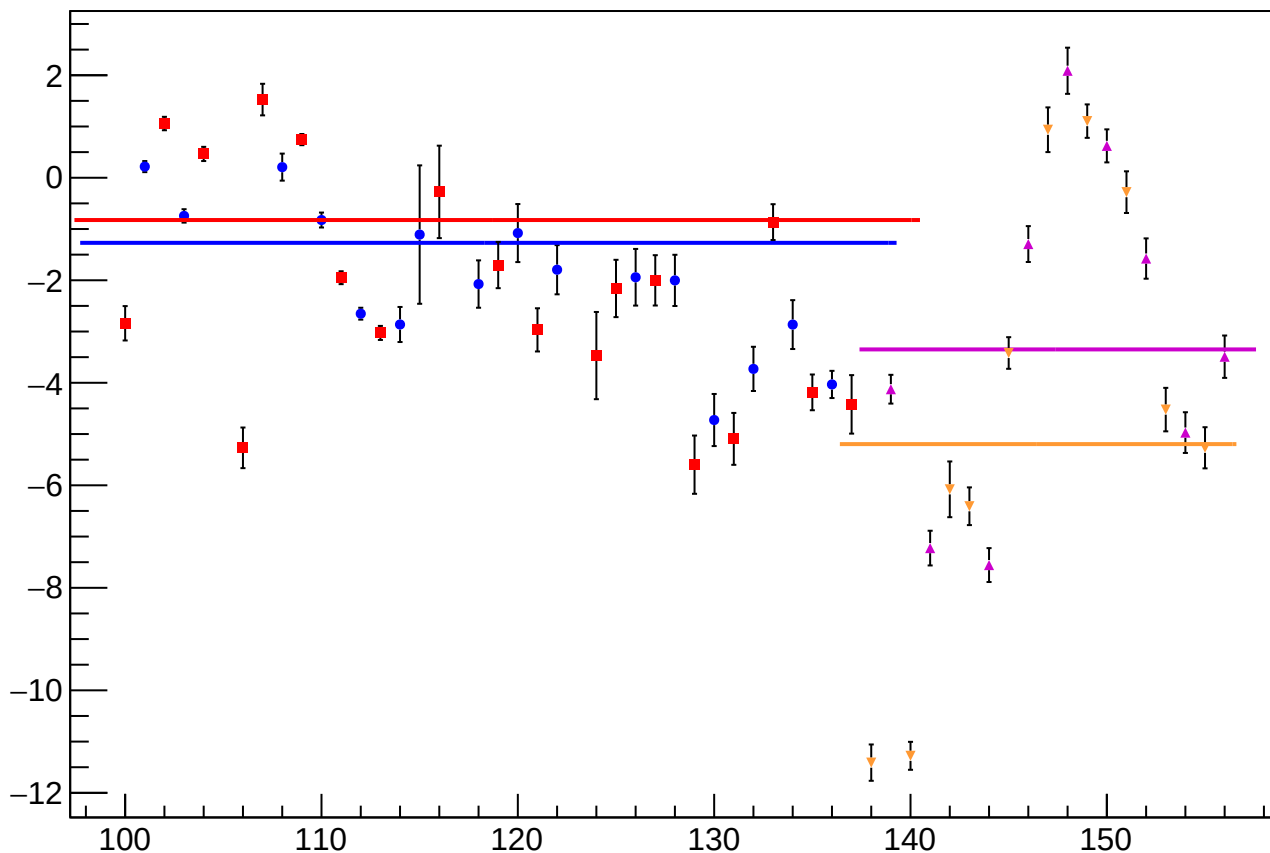
Right: -19.328 ± 0.014 χ^2/NDF : 168397.6/34

In: -20.560 ± 0.011 χ^2/NDF : 43942.4/24

Out: -20.321 ± 0.011 χ^2/NDF : 228534.3/28

All: -20.440 ± 0.008 χ^2/NDF : 272727.0/53

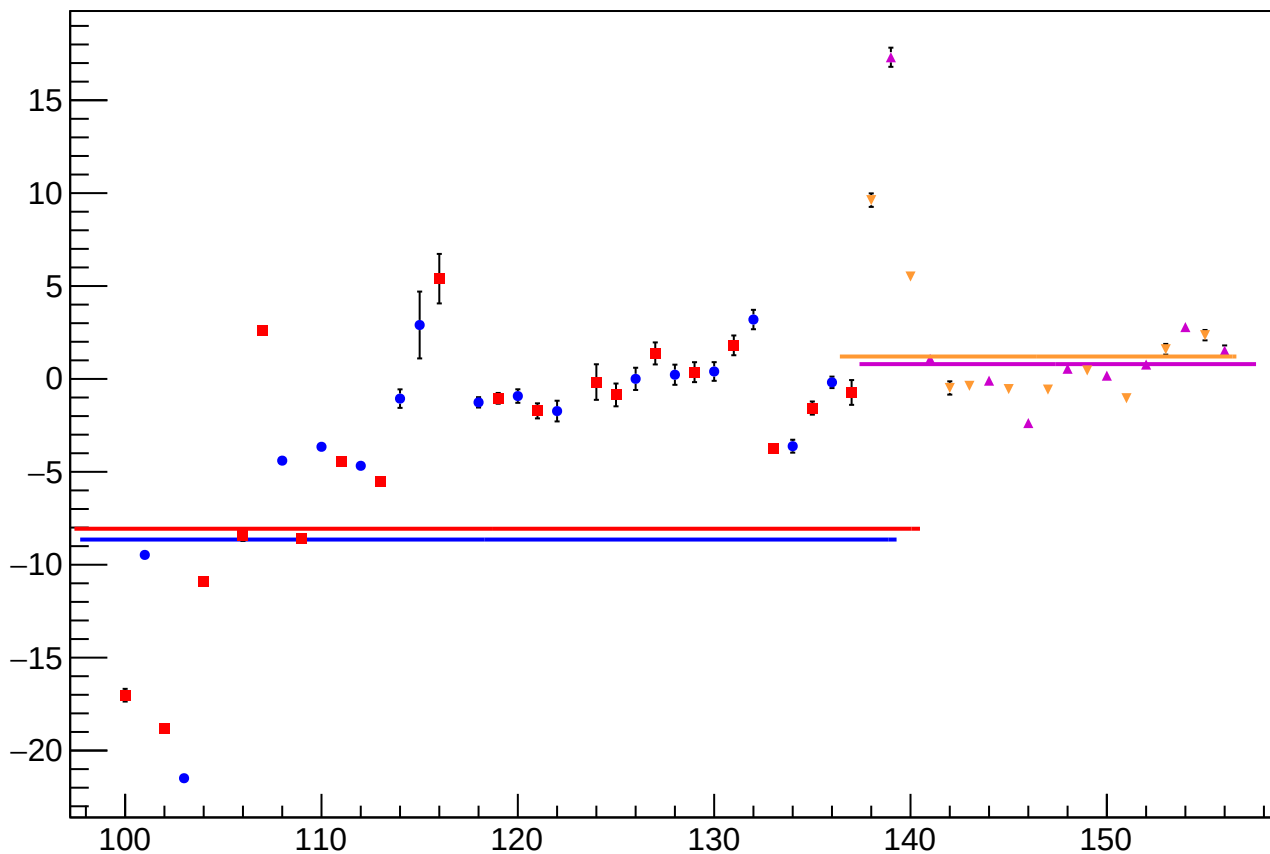
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.270 ± 0.055 χ^2/NDF : 616.5/15
 Left Out: -5.196 ± 0.115 χ^2/NDF : 1570.5/9
 Right Out: -0.825 ± 0.051 χ^2/NDF : 1384.3/18
 Left In: -3.349 ± 0.118 χ^2/NDF : 669.8/8

Left: -4.293 ± 0.082 χ^2/NDF : 2365.7/18
 Right: -1.033 ± 0.037 χ^2/NDF : 2036.2/34
 In: -1.636 ± 0.049 χ^2/NDF : 1542.5/24
 Out: -1.540 ± 0.047 χ^2/NDF : 4155.6/28
 All: -1.585 ± 0.034 χ^2/NDF : 5700.2/53

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: 1.207 ± 0.080 χ^2/NDF : 1195.4/9

Right Out: -8.063 ± 0.058 χ^2/NDF : 14427.9/18

Left In: 0.797 ± 0.084 χ^2/NDF : 1335.8/8

Left: 1.011 ± 0.058 χ^2/NDF : 2543.6/18

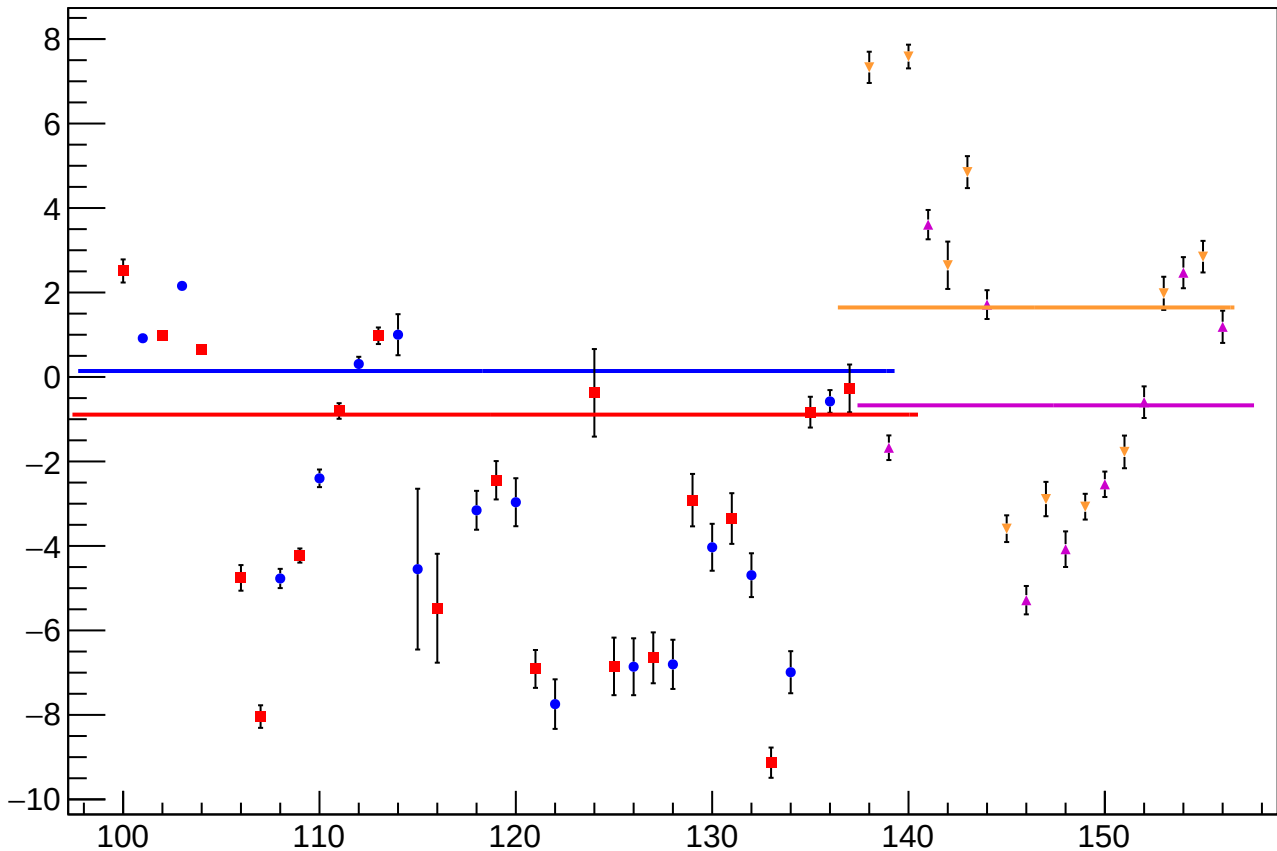
Right: -8.357 ± 0.040 χ^2/NDF : 28307.3/34

In: -5.672 ± 0.047 χ^2/NDF : 23820.8/24

Out: -4.930 ± 0.047 χ^2/NDF : 24405.7/28

All: -5.299 ± 0.033 χ^2/NDF : 48351.4/53

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.141 ± 0.053 χ^2/NDF : 1959.8/15

Left Out: 1.646 ± 0.114 χ^2/NDF : 1485.8/9

Right Out: -0.891 ± 0.054 χ^2/NDF : 2985.7/18

Left In: -0.672 ± 0.115 χ^2/NDF : 601.1/8

Left: 0.500 ± 0.081 χ^2/NDF : 2292.0/18

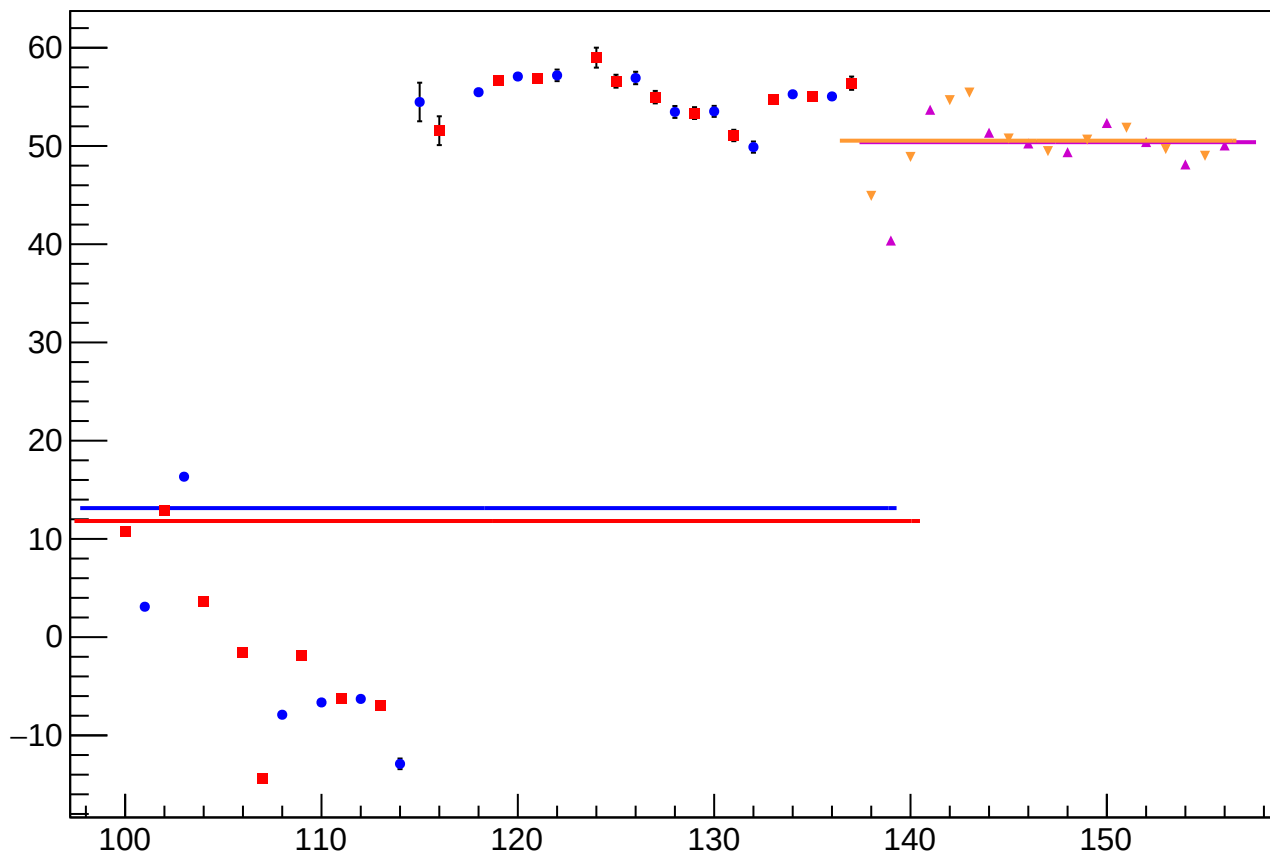
Right: -0.368 ± 0.038 χ^2/NDF : 5133.2/34

In: -0.001 ± 0.048 χ^2/NDF : 2602.1/24

Out: -0.430 ± 0.049 χ^2/NDF : 4878.5/28

All: -0.213 ± 0.034 χ^2/NDF : 7520.0/53

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: 50.540 $\pm$ 0.097 χ^2 /NDF: 623.0/9

Right Out: 11.822 $\pm$ 0.068 χ^2 /NDF: 118168.5/18

Left In: 50.386 $\pm$ 0.100 χ^2 /NDF: 672.9/8

Left: 50.466 $\pm$ 0.070 χ^2 /NDF: 1297.1/18

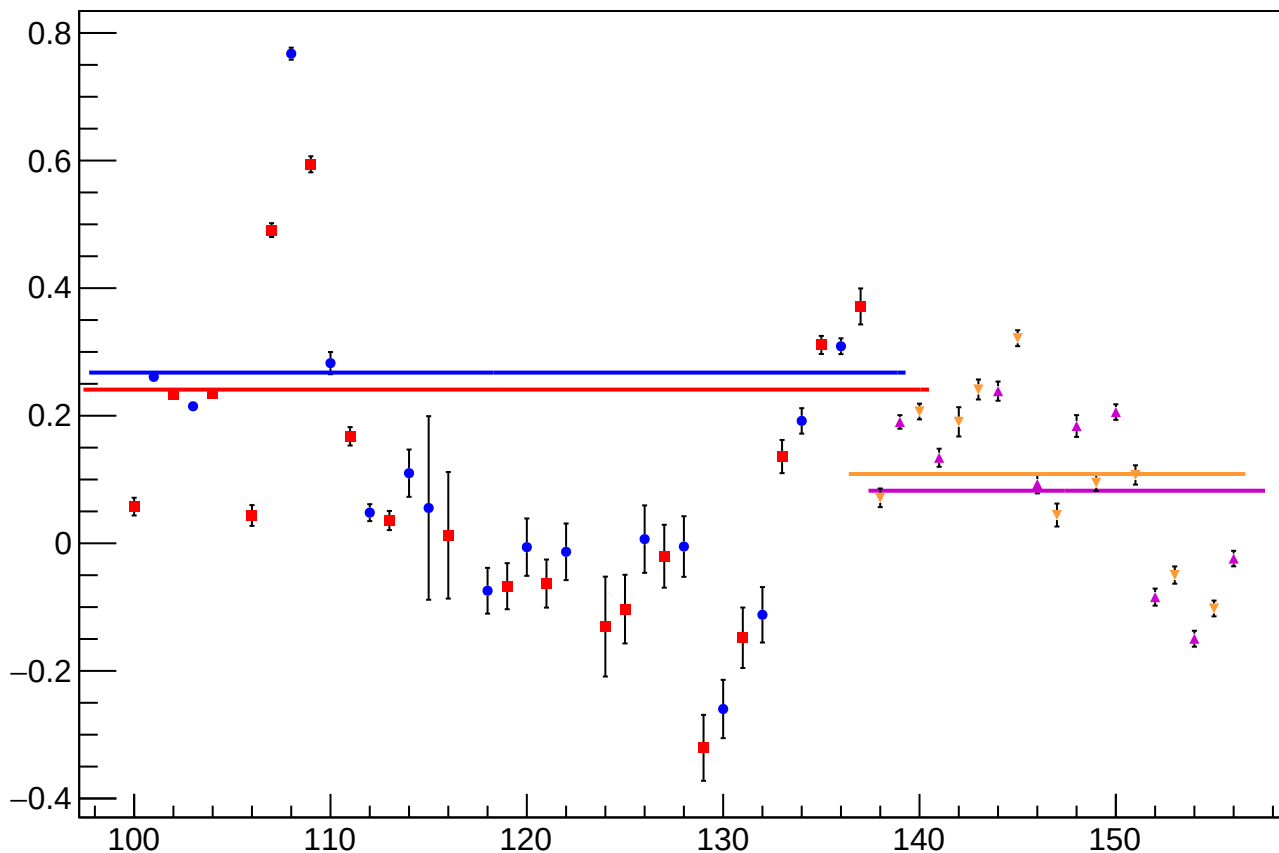
Right: 12.478 $\pm$ 0.048 χ^2 /NDF: 226930.1/34

In: 24.887 $\pm$ 0.056 χ^2 /NDF: 204067.1/24

Out: 24.537 $\pm$ 0.056 χ^2 /NDF: 225734.4/28

All: 24.710 $\pm$ 0.040 χ^2 /NDF: 429821.1/53

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.268 $\pm$ 0.003 χ^2 /NDF: 3720.4/15

Left Out: 0.109 $\pm$ 0.005 χ^2 /NDF:883.2/9

Right Out: 0.241 $\pm$ 0.003 χ^2 /NDF: 2339.2/18

Left In: 0.082 $\pm$ 0.004 χ^2 /NDF:940.0/8

Left: 0.095 $\pm$ 0.003 χ^2 /NDF: 1840.6/18

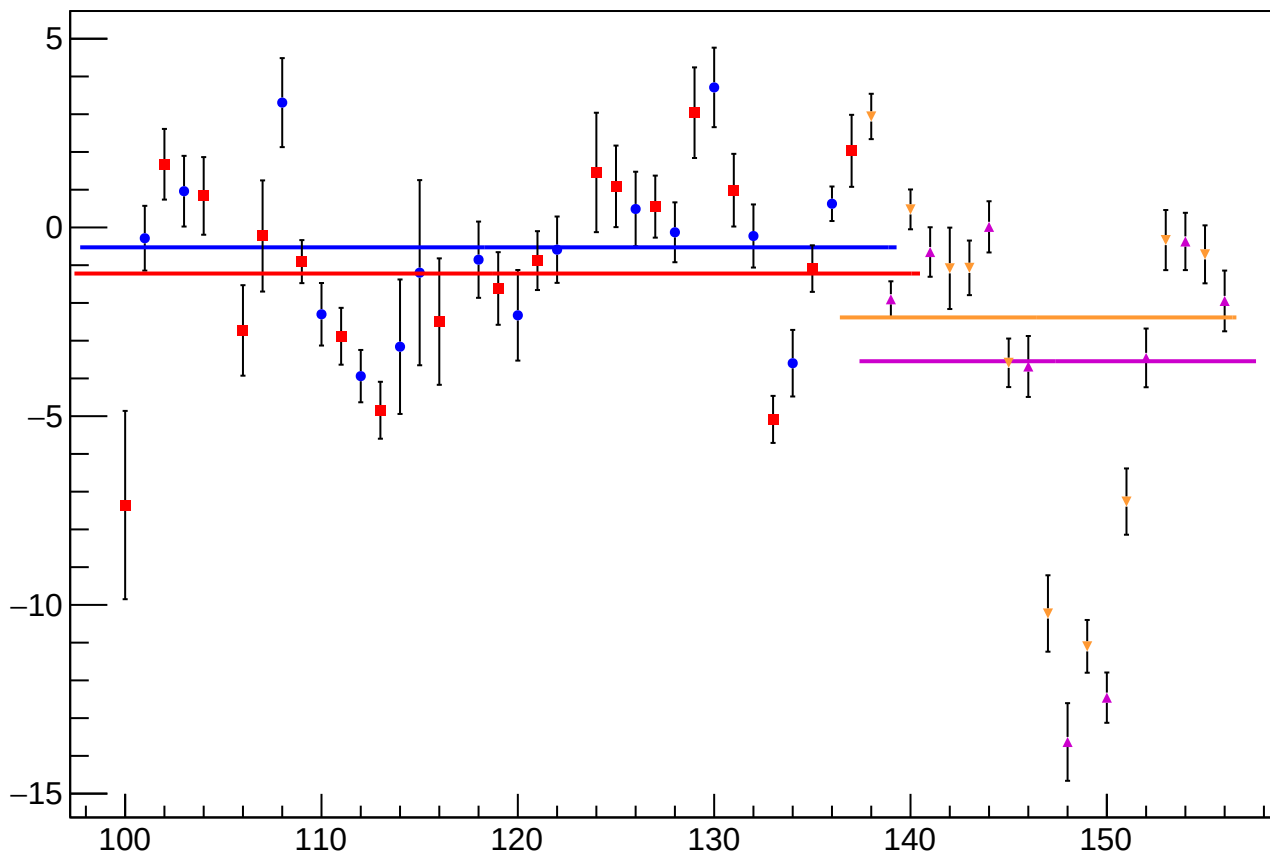
Right: 0.254 $\pm$ 0.002 χ^2 /NDF: 6105.9/34

In: 0.214 $\pm$ 0.002 χ^2 /NDF:5928.1/24

Out: 0.205 $\pm$ 0.002 χ^2 /NDF:3849.8/28

All: 0.210 $\pm$ 0.002 χ^2 /NDF: 9785.3/53

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.527 ± 0.217 $\chi^2/\text{NDF}: 82.7/15$

Left Out: -2.384 ± 0.229 $\chi^2/\text{NDF}: 374.0/9$

Right Out: -1.221 ± 0.205 $\chi^2/\text{NDF}: 130.9/18$

Left In: -3.544 ± 0.232 $\chi^2/\text{NDF}: 355.5/8$

Left: -2.955 ± 0.163 $\chi^2/\text{NDF}: 742.1/18$

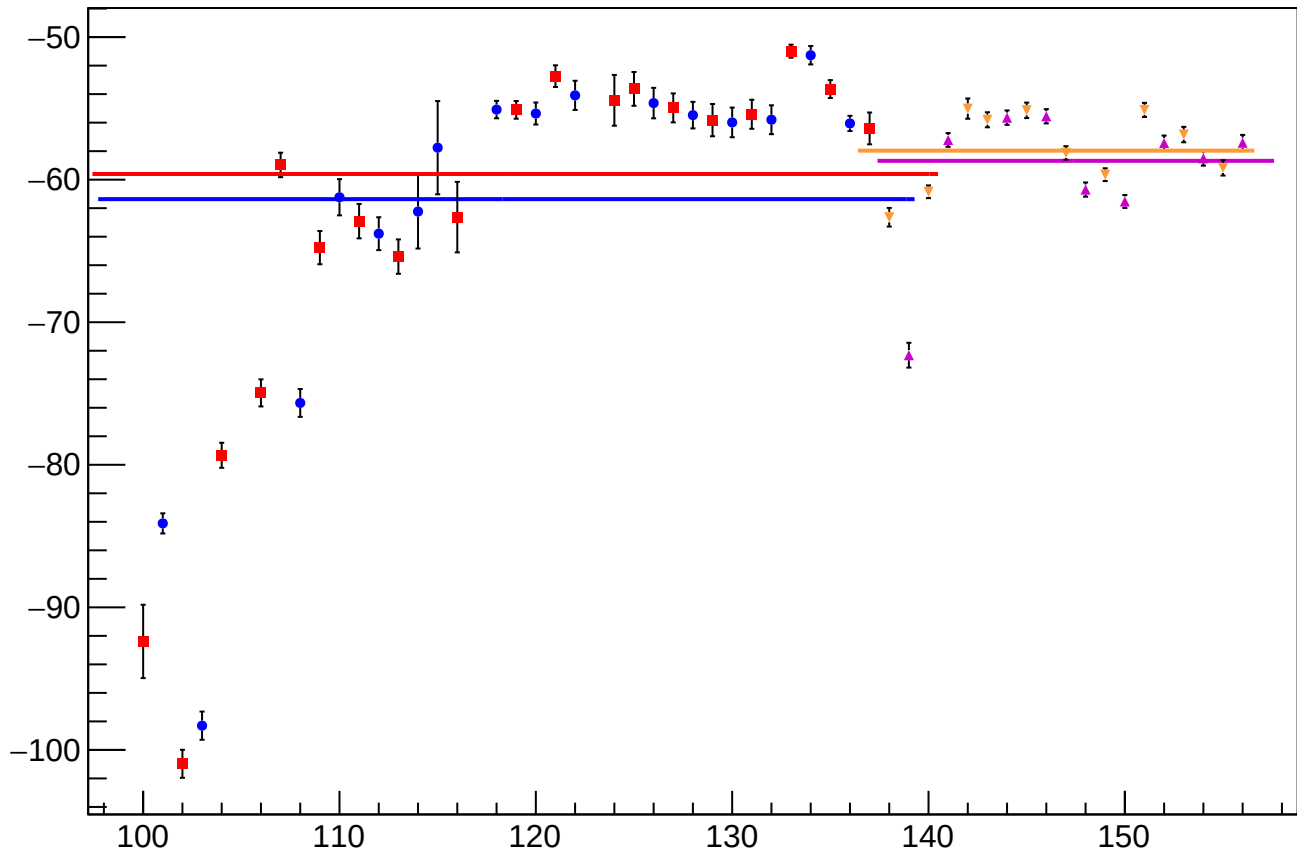
Right: -0.894 ± 0.149 $\chi^2/\text{NDF}: 219.1/34$

In: -1.935 ± 0.159 $\chi^2/\text{NDF}: 528.4/24$

Out: -1.738 ± 0.152 $\chi^2/\text{NDF}: 519.3/28$

All: -1.833 ± 0.110 $\chi^2/\text{NDF}: 1048.5/53$

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -61.367 ± 0.219 $\chi^2/\text{NDF}: 3351.2/15$

Left Out: -57.963 ± 0.165 $\chi^2/\text{NDF}: 210.9/9$

Right Out: -59.601 ± 0.207 $\chi^2/\text{NDF}: 3421.3/18$

Left In: -58.680 ± 0.174 $\chi^2/\text{NDF}: 396.6/8$

Left: -58.304 ± 0.120 $\chi^2/\text{NDF}: 616.5/18$

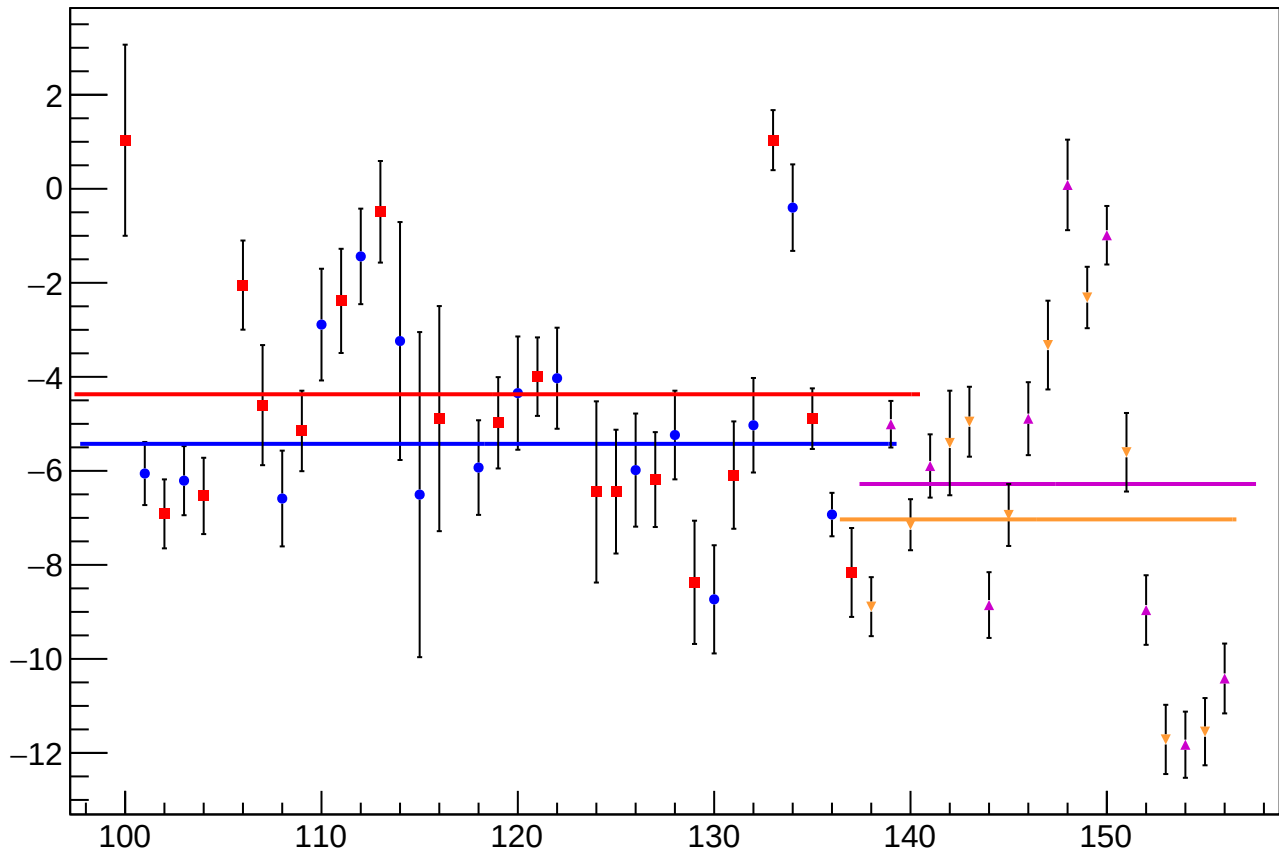
Right: -60.433 ± 0.150 $\chi^2/\text{NDF}: 6806.9/34$

In: -59.716 ± 0.136 $\chi^2/\text{NDF}: 3840.2/24$

Out: -58.602 ± 0.129 $\chi^2/\text{NDF}: 3670.6/28$

All: -59.129 ± 0.094 $\chi^2/\text{NDF}: 7546.2/53$

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: -7.032 ± 0.226 $\chi^2/\text{NDF}: 169.6/9$

Right Out: -4.371 ± 0.223 $\chi^2/\text{NDF}: 156.6/18$

Left In: -6.279 ± 0.228 $\chi^2/\text{NDF}: 245.8/8$

Left: -6.658 ± 0.160 $\chi^2/\text{NDF}: 420.9/18$

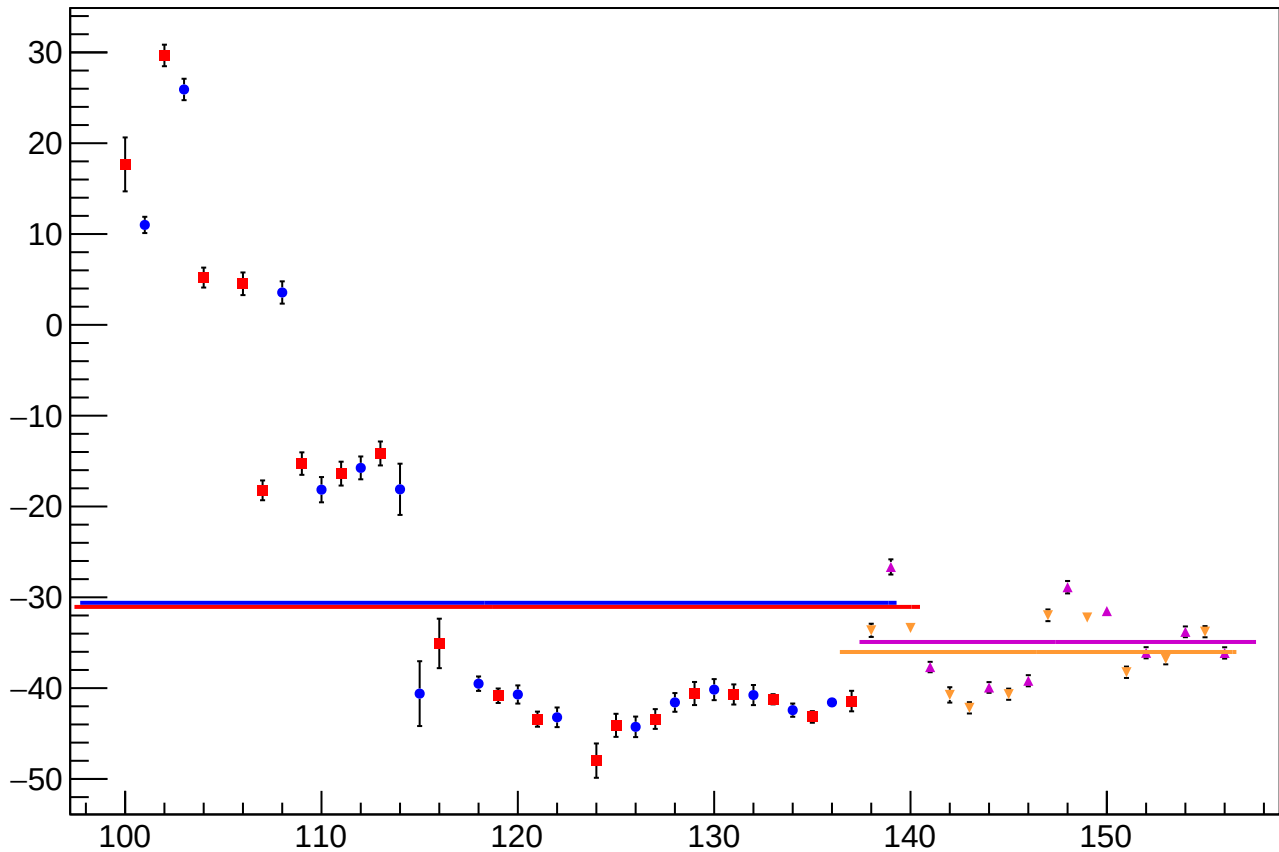
Right: -4.881 ± 0.160 $\chi^2/\text{NDF}: 243.4/34$

In: -5.857 ± 0.162 $\chi^2/\text{NDF}: 328.7/24$

Out: -5.680 ± 0.159 $\chi^2/\text{NDF}: 396.6/28$

All: -5.766 ± 0.113 $\chi^2/\text{NDF}: 725.9/53$

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: -36.020 ± 0.197 χ^2/NDF : 337.8/9

Right Out: -31.056 ± 0.238 χ^2/NDF : 6976.4/18

Left In: -34.918 ± 0.204 χ^2/NDF : 372.9/8

Left: -35.489 ± 0.142 χ^2/NDF : 725.7/18

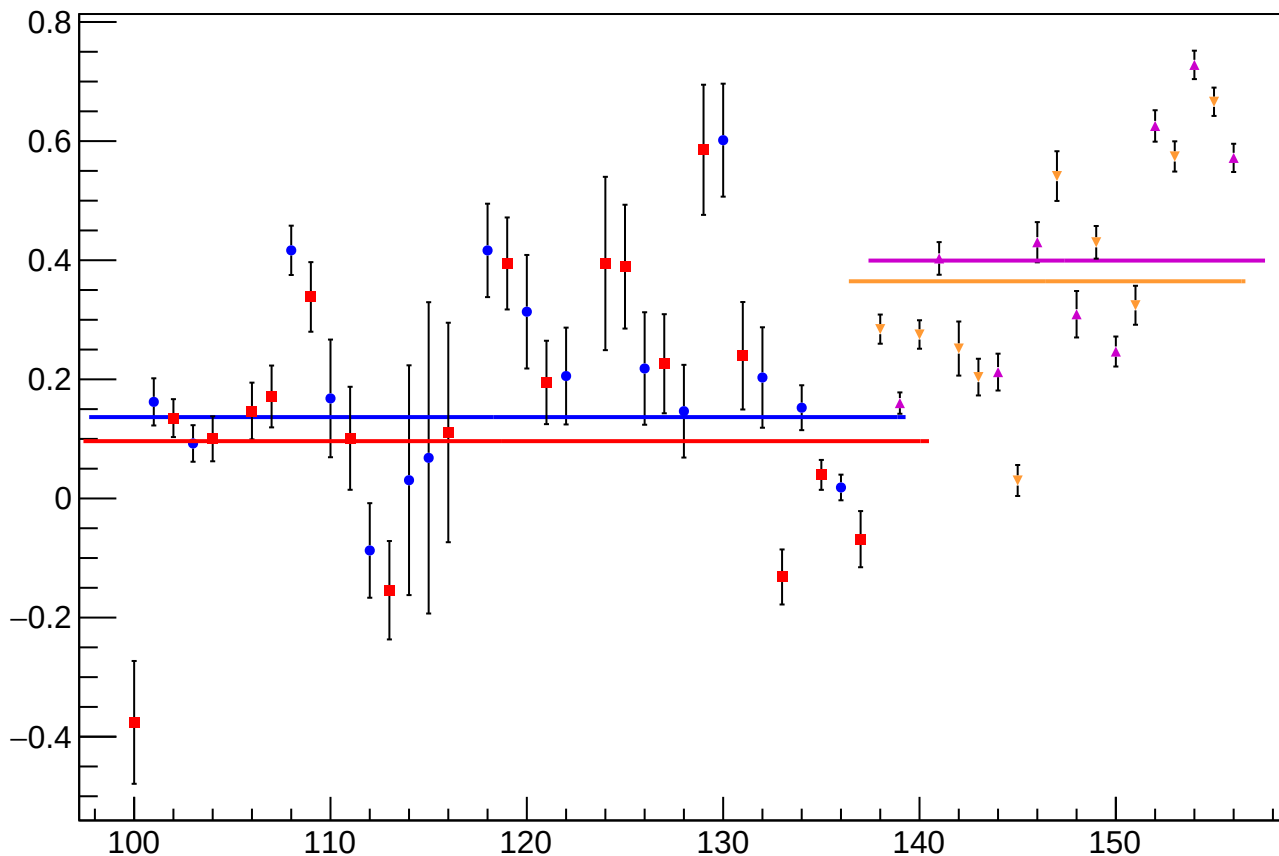
Right: -30.841 ± 0.172 χ^2/NDF : 13916.2/34

In: -33.184 ± 0.158 χ^2/NDF : 7489.7/24

Out: -33.998 ± 0.152 χ^2/NDF : 7572.6/28

All: -33.608 ± 0.109 χ^2/NDF : 15076.1/53

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137 ± 0.013 $\chi^2/\text{NDF}: 129.2/15$

Left Out: 0.365 ± 0.009 $\chi^2/\text{NDF}: 477.3/9$

Right Out: 0.096 ± 0.012 $\chi^2/\text{NDF}: 147.7/18$

Left In: 0.399 ± 0.009 $\chi^2/\text{NDF}: 573.5/8$

Left: 0.383 ± 0.006 $\chi^2/\text{NDF}: 1058.7/18$

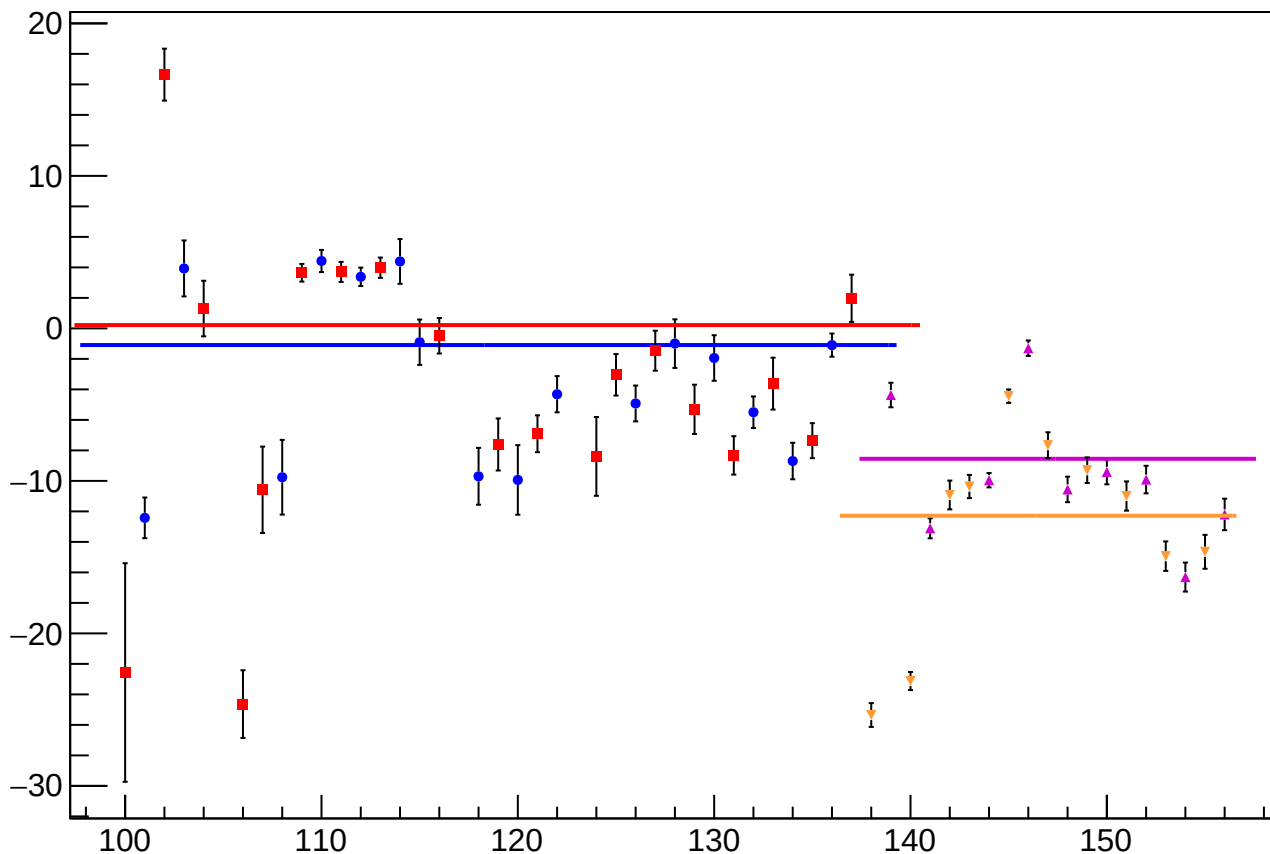
Right: 0.116 ± 0.009 $\chi^2/\text{NDF}: 282.3/34$

In: 0.315 ± 0.007 $\chi^2/\text{NDF}: 1003.0/24$

Out: 0.273 ± 0.007 $\chi^2/\text{NDF}: 935.9/28$

All: 0.294 ± 0.005 $\chi^2/\text{NDF}: 1956.6/53$

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: -12.285 ± 0.234 χ^2/NDF : 994.7/9

Right Out: 0.216 ± 0.266 χ^2/NDF : 520.8/18

Left In: -8.552 ± 0.233 χ^2/NDF : 377.3/8

Left: -10.407 ± 0.165 χ^2/NDF : 1500.0/18

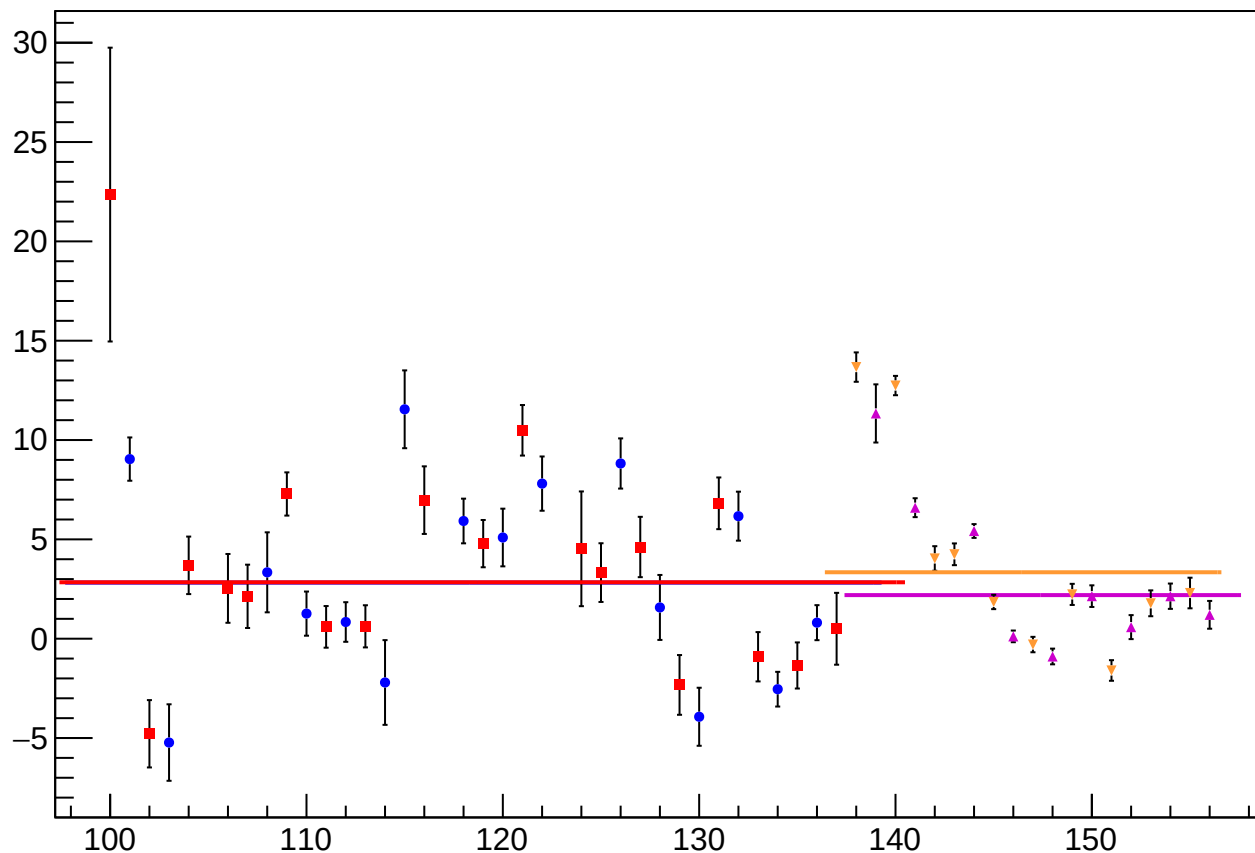
Right: -0.404 ± 0.193 χ^2/NDF : 864.2/34

In: -5.512 ± 0.179 χ^2/NDF : 1128.1/24

Out: -6.833 ± 0.176 χ^2/NDF : 2759.2/28

All: -6.185 ± 0.125 χ^2/NDF : 3915.0/53

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.823 $\pm$ 0.313 χ^2 /NDF: 199.6/15

Left Out: 3.344 $\pm$ 0.163 χ^2 /NDF:780.2/9

Right Out: 2.840 $\pm$ 0.322 χ^2 /NDF: 145.0/18

Left In: 2.194 $\pm$ 0.155 χ^2 /NDF:331.1/8

Left: 2.739 $\pm$ 0.112 χ^2 /NDF: 1137.5/18

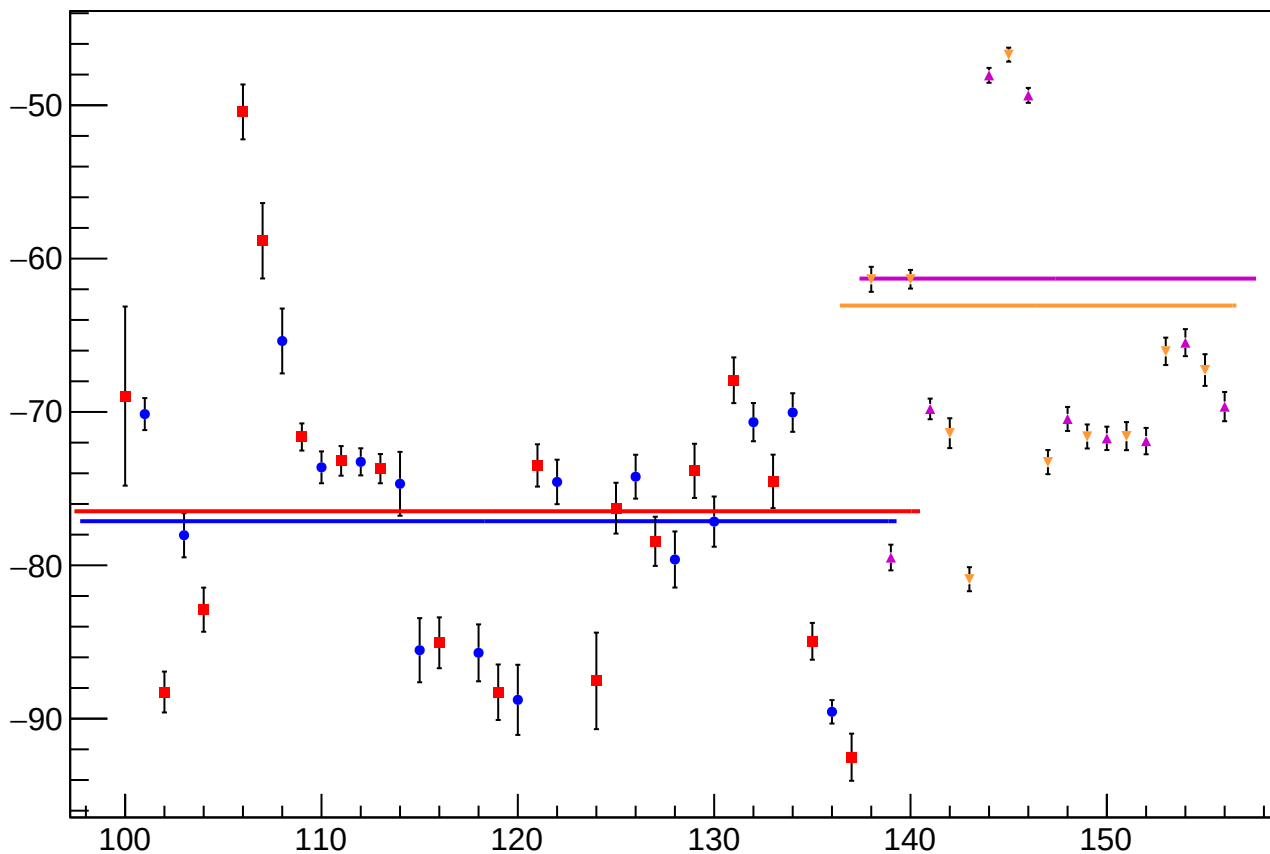
Right: 2.831 $\pm$ 0.225 χ^2 /NDF: 344.5/34

In: 2.318 $\pm$ 0.139 χ^2 /NDF:533.9/24

Out: 3.241 $\pm$ 0.145 χ^2 /NDF:927.1/28

All: 2.758 $\pm$ 0.100 χ^2 /NDF: 1482.1/53

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -77.123 ± 0.326 $\chi^2/\text{NDF}: 503.3/15$

Left Out: -63.061 ± 0.234 $\chi^2/\text{NDF}: 2294.5/9$

Right Out: -76.475 ± 0.328 $\chi^2/\text{NDF}: 695.8/18$

Left In: -61.303 ± 0.228 $\chi^2/\text{NDF}: 2551.4/8$

Left: -62.162 ± 0.163 $\chi^2/\text{NDF}: 4874.8/18$

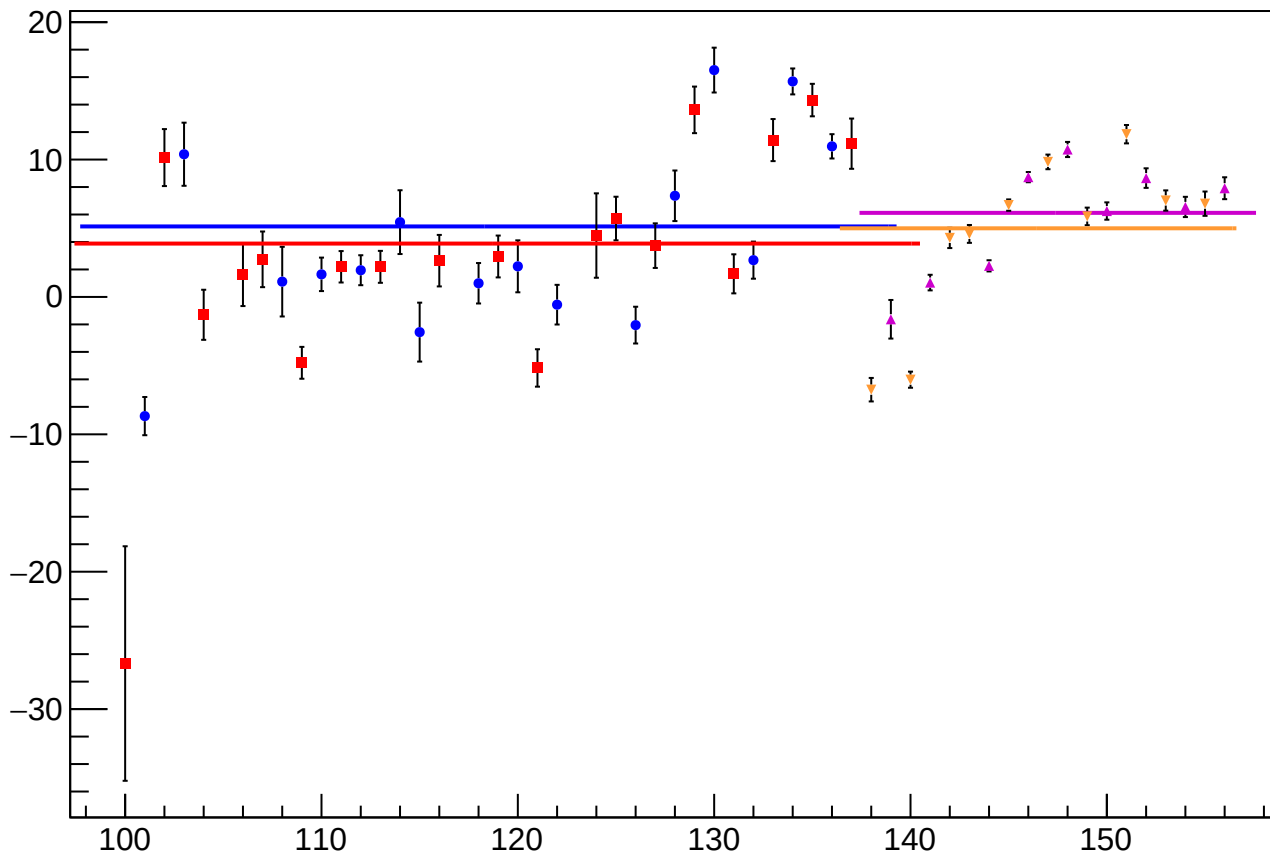
Right: -76.801 ± 0.231 $\chi^2/\text{NDF}: 1201.1/34$

In: -66.505 ± 0.187 $\chi^2/\text{NDF}: 4632.4/24$

Out: -67.566 ± 0.190 $\chi^2/\text{NDF}: 4097.8/28$

All: -67.026 ± 0.133 $\chi^2/\text{NDF}: 8746.0/53$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.132 ± 0.350 $\chi^2/\text{NDF}: 412.3/15$

Left Out: 4.996 ± 0.198 $\chi^2/\text{NDF}: 760.3/9$

Right Out: 3.885 ± 0.361 $\chi^2/\text{NDF}: 291.5/18$

Left In: 6.120 ± 0.189 $\chi^2/\text{NDF}: 337.1/8$

Left: 5.583 ± 0.136 $\chi^2/\text{NDF}: 1114.3/18$

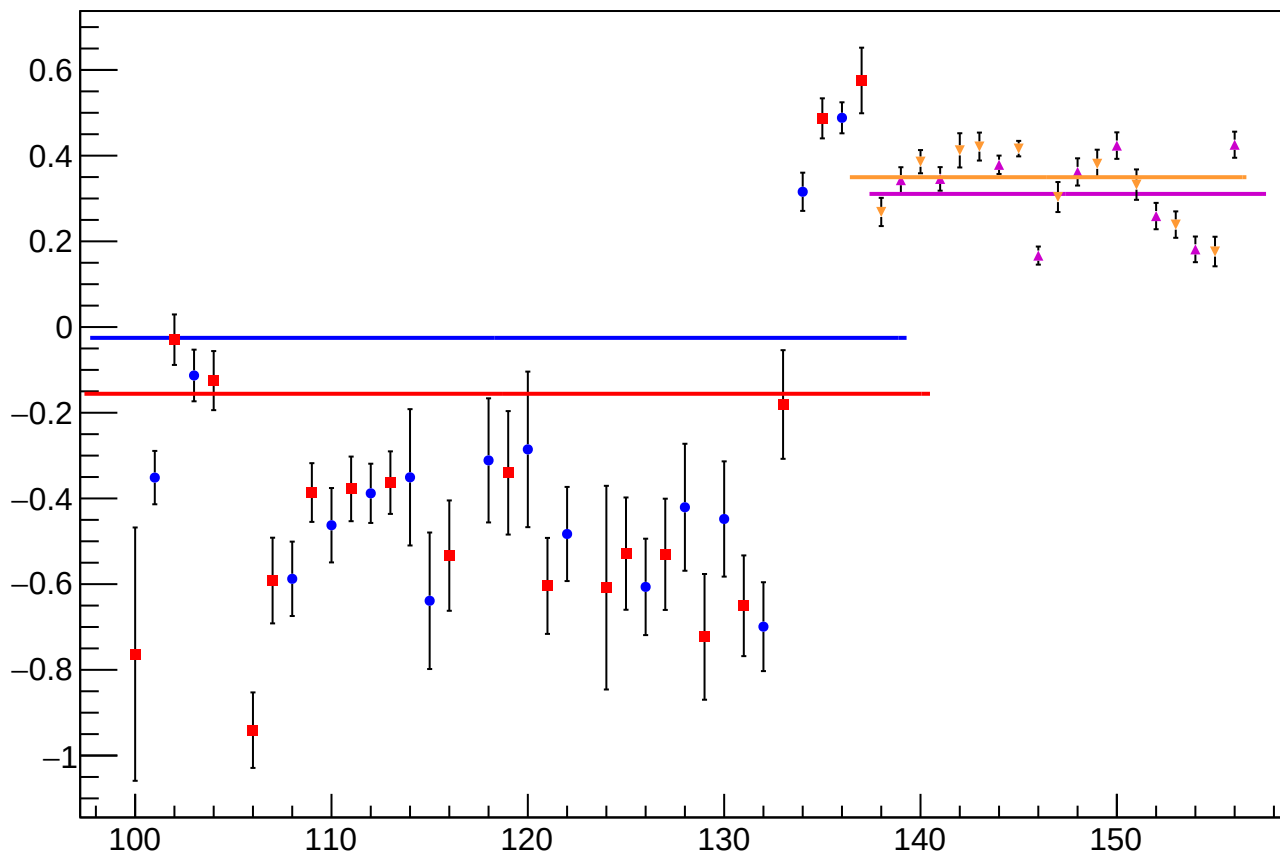
Right: 4.529 ± 0.251 $\chi^2/\text{NDF}: 710.0/34$

In: 5.897 ± 0.166 $\chi^2/\text{NDF}: 755.6/24$

Out: 4.740 ± 0.173 $\chi^2/\text{NDF}: 1059.0/28$

All: 5.343 ± 0.120 $\chi^2/\text{NDF}: 1837.8/53$

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.019 $\chi^2/\text{NDF}: 512.5/15$

Left Out: 0.350 ± 0.009 $\chi^2/\text{NDF}: 69.7/9$

Right Out: -0.156 ± 0.020 $\chi^2/\text{NDF}: 494.9/18$

Left In: 0.311 ± 0.009 $\chi^2/\text{NDF}: 110.9/8$

Left: 0.330 ± 0.007 $\chi^2/\text{NDF}: 189.6/18$

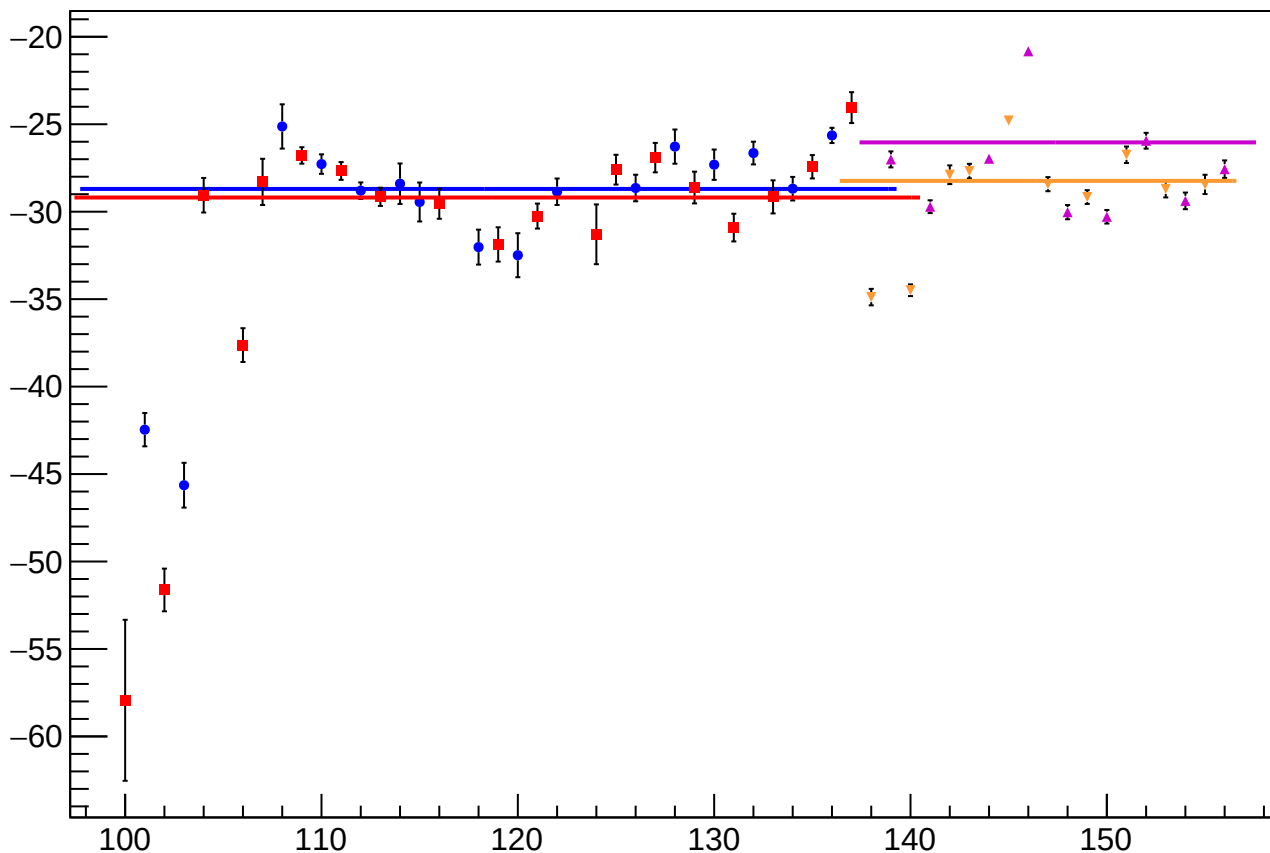
Right: -0.086 ± 0.014 $\chi^2/\text{NDF}: 1029.5/34$

In: 0.248 ± 0.008 $\chi^2/\text{NDF}: 879.2/24$

Out: 0.260 ± 0.009 $\chi^2/\text{NDF}: 1078.9/28$

All: 0.254 ± 0.006 $\chi^2/\text{NDF}: 1959.1/53$

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.698 ± 0.186 $\chi^2/\text{NDF}: 487.3/15$

Left Out: -28.239 ± 0.118 $\chi^2/\text{NDF}: 856.7/9$

Right Out: -29.189 ± 0.181 $\chi^2/\text{NDF}: 557.3/18$

Left In: -26.038 ± 0.111 $\chi^2/\text{NDF}: 1035.4/8$

Left: -27.071 ± 0.081 $\chi^2/\text{NDF}: 2076.1/18$

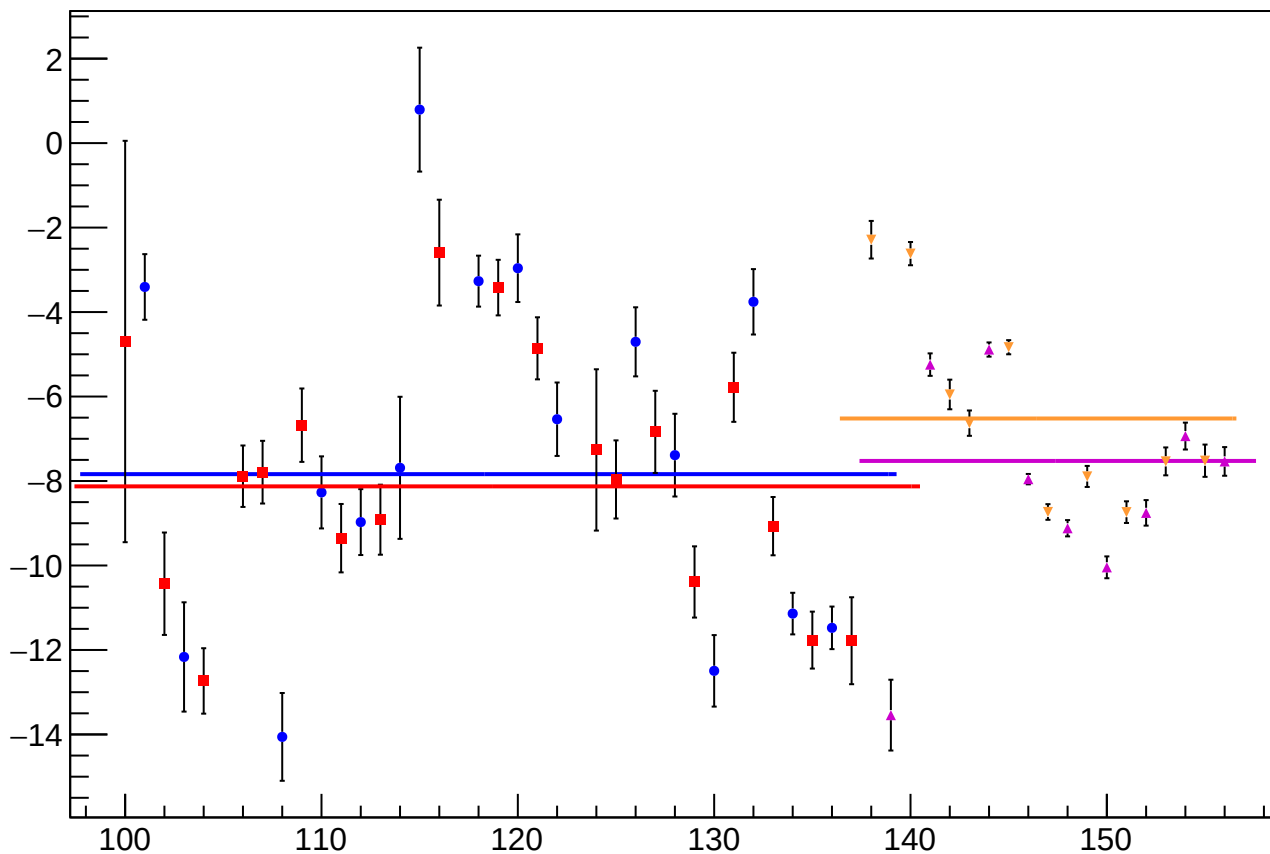
Right: -28.950 ± 0.130 $\chi^2/\text{NDF}: 1048.2/34$

In: -26.739 ± 0.095 $\chi^2/\text{NDF}: 1673.6/24$

Out: -28.522 ± 0.099 $\chi^2/\text{NDF}: 1433.2/28$

All: -27.597 ± 0.069 $\chi^2/\text{NDF}: 3275.2/53$

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: -6.520 ± 0.082 χ^2/NDF : 660.2/9

Right Out: -8.127 ± 0.197 χ^2/NDF : 197.3/18

Left In: -7.525 ± 0.073 χ^2/NDF : 566.4/8

Left: -7.080 ± 0.054 χ^2/NDF : 1310.8/18

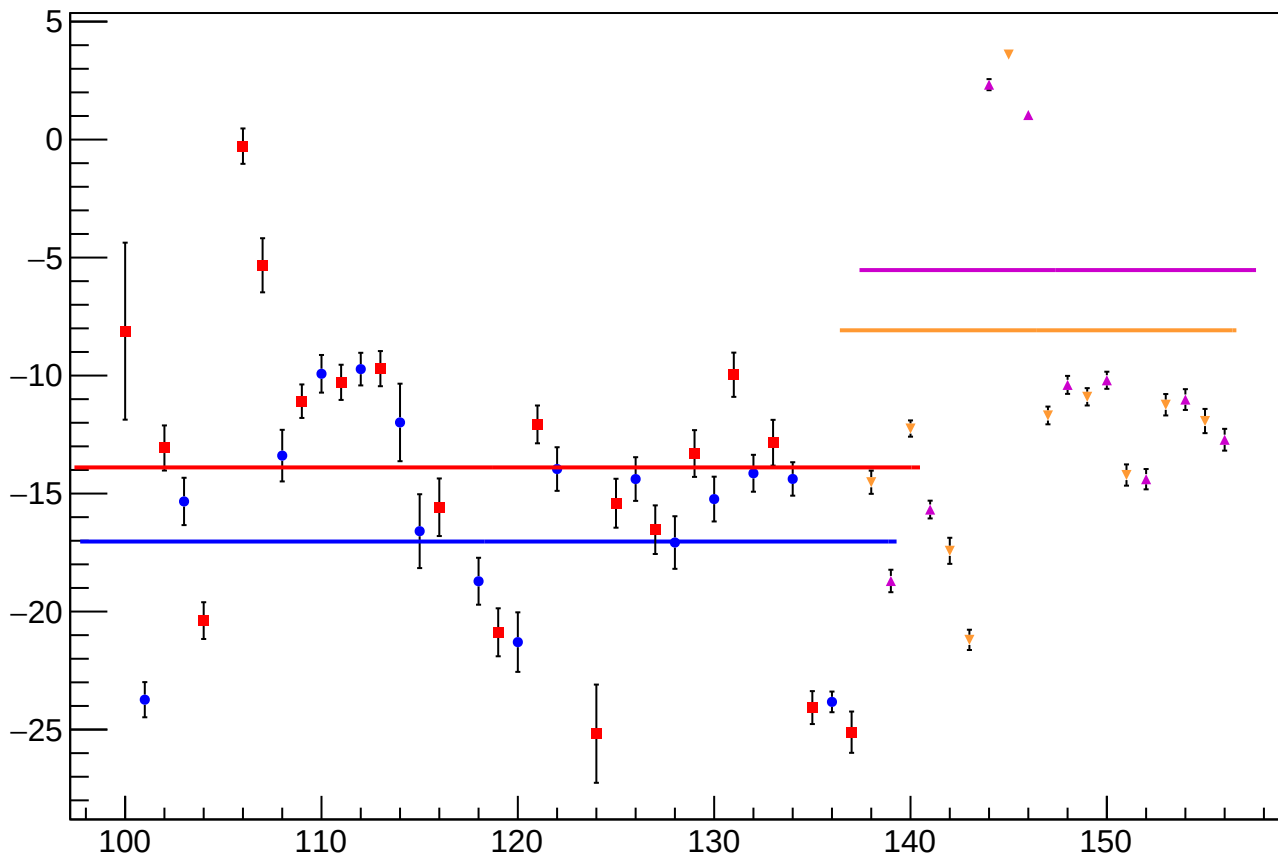
Right: -7.981 ± 0.138 χ^2/NDF : 581.6/34

In: -7.563 ± 0.068 χ^2/NDF : 951.8/24

Out: -6.757 ± 0.075 χ^2/NDF : 914.5/28

All: -7.200 ± 0.051 χ^2/NDF : 1929.2/53

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: -8.082 ± 0.117 χ^2/NDF : 5133.3/9

Right Out: -13.892 ± 0.209 χ^2/NDF : 1017.4/18

Left In: -5.530 ± 0.109 χ^2/NDF : 4855.3/8

Left: -6.707 ± 0.080 χ^2/NDF : 10242.9/18

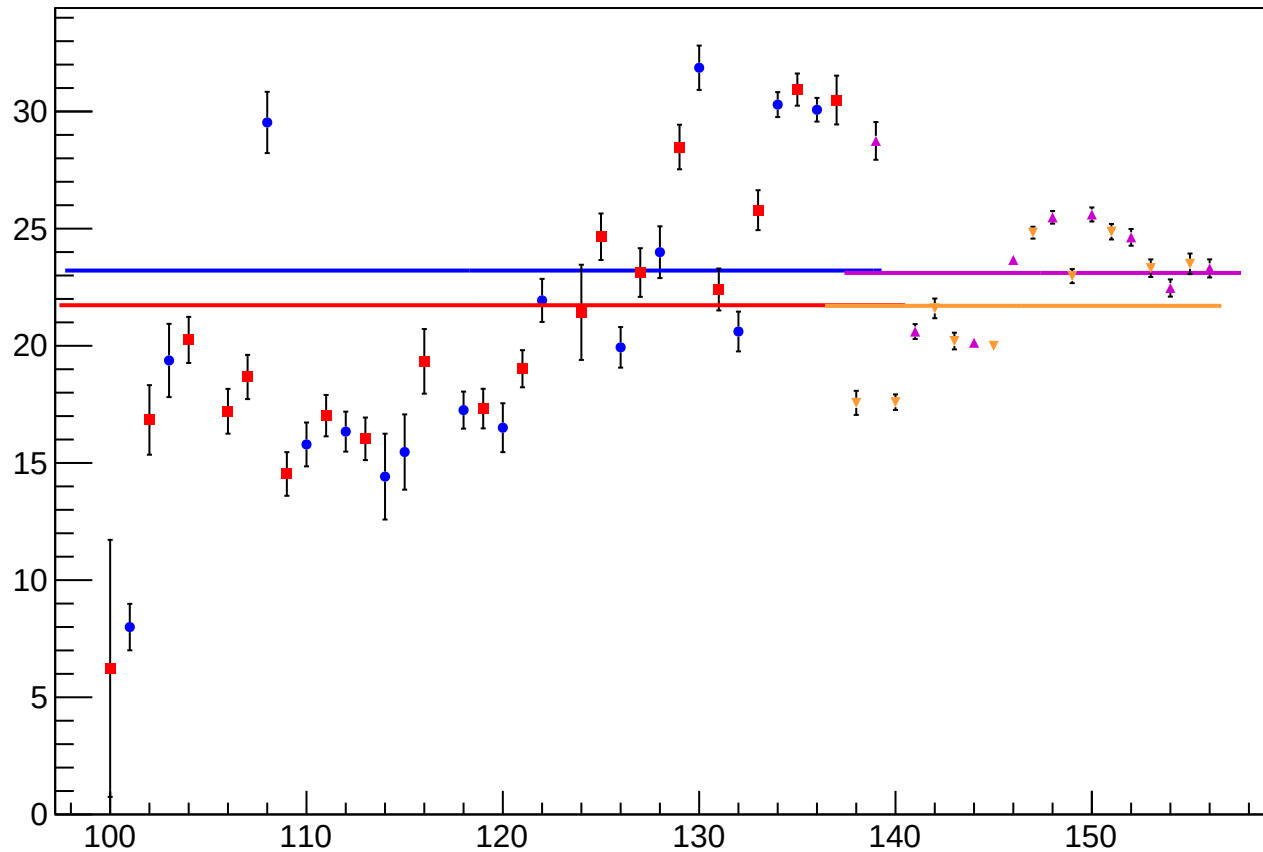
Right: -15.462 ± 0.148 χ^2/NDF : 1731.1/34

In: -7.971 ± 0.096 χ^2/NDF : 7834.2/24

Out: -9.473 ± 0.102 χ^2/NDF : 6736.6/28

All: -8.677 ± 0.070 χ^2/NDF : 14684.8/53

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: 21.707 $\pm$ 0.099 χ^2 /NDF: 611.6/9

Right Out: 21.731 $\pm$ 0.224 χ^2 /NDF: 558.2/18

Left In: 23.109 $\pm$ 0.089 χ^2 /NDF: 521.3/8

Left: 22.484 $\pm$ 0.066 χ^2 /NDF: 1243.9/18

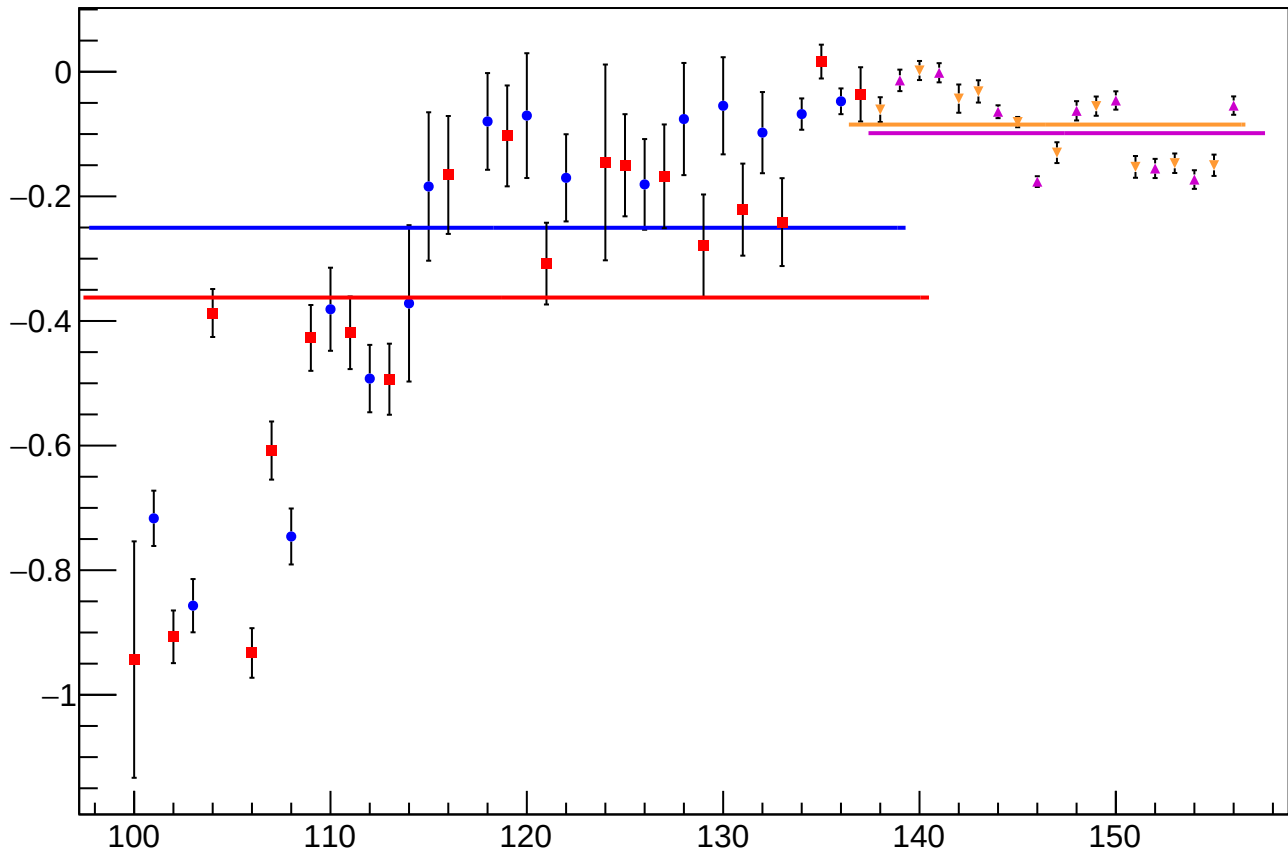
Right: 22.492 $\pm$ 0.156 χ^2 /NDF: 1588.8/34

In: 23.124 $\pm$ 0.082 χ^2 /NDF: 1529.7/24

Out: 21.711 $\pm$ 0.091 χ^2 /NDF: 1169.9/28

All: 22.485 $\pm$ 0.061 χ^2 /NDF: 2832.7/53

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: -0.085 ± 0.005 χ^2/NDF : 102.4/9

Right Out: -0.362 ± 0.012 χ^2/NDF : 704.3/18

Left In: -0.099 ± 0.004 χ^2/NDF : 221.4/8

Left: -0.092 ± 0.003 χ^2/NDF : 328.4/18

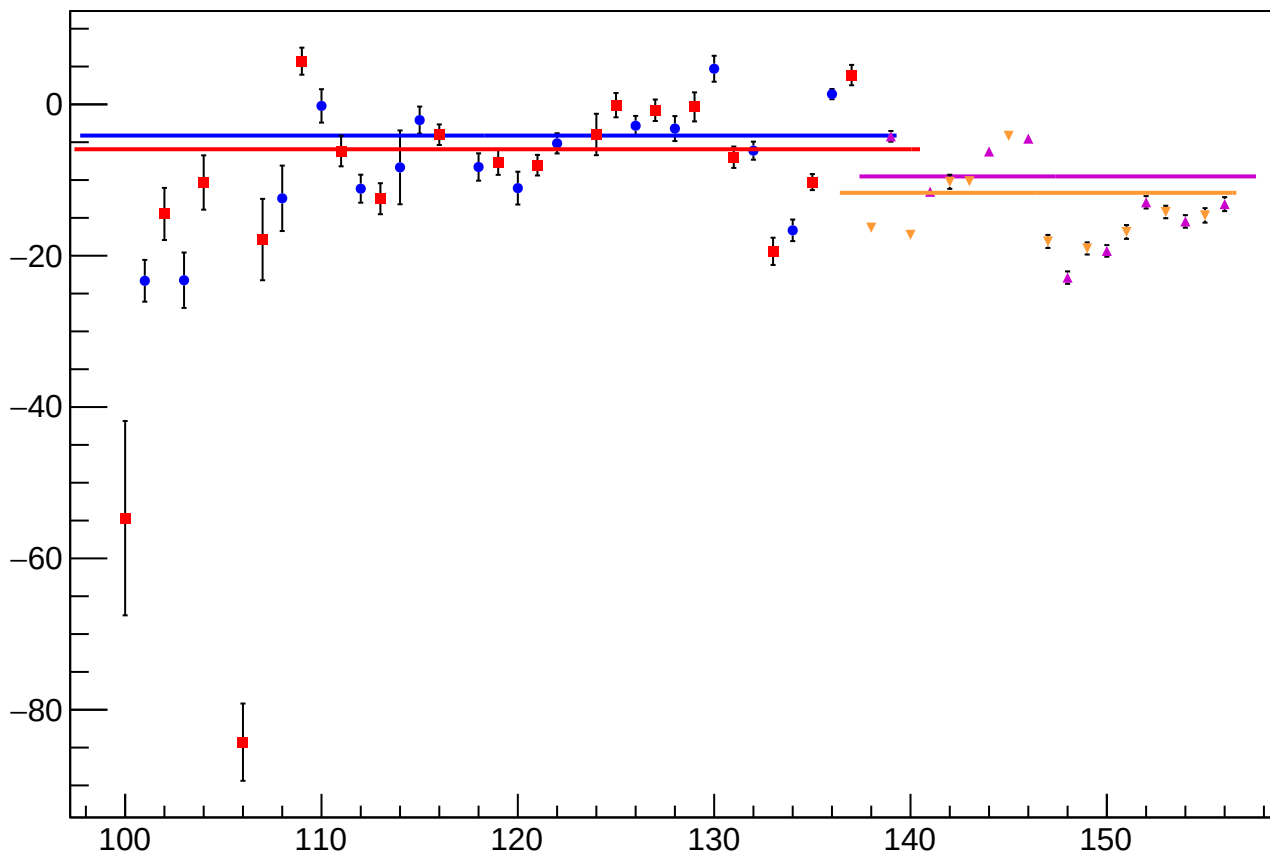
Right: -0.303 ± 0.008 χ^2/NDF : 1381.3/34

In: -0.117 ± 0.004 χ^2/NDF : 1003.7/24

Out: -0.120 ± 0.004 χ^2/NDF : 1248.0/28

All: -0.119 ± 0.003 χ^2/NDF : 2251.9/53

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: -11.685 ± 0.209 χ^2/NDF : 769.4/9

Right Out: -5.930 ± 0.408 χ^2/NDF : 482.6/18

Left In: -9.518 ± 0.206 χ^2/NDF : 790.0/8

Left: -10.588 ± 0.147 χ^2/NDF : 1614.0/18

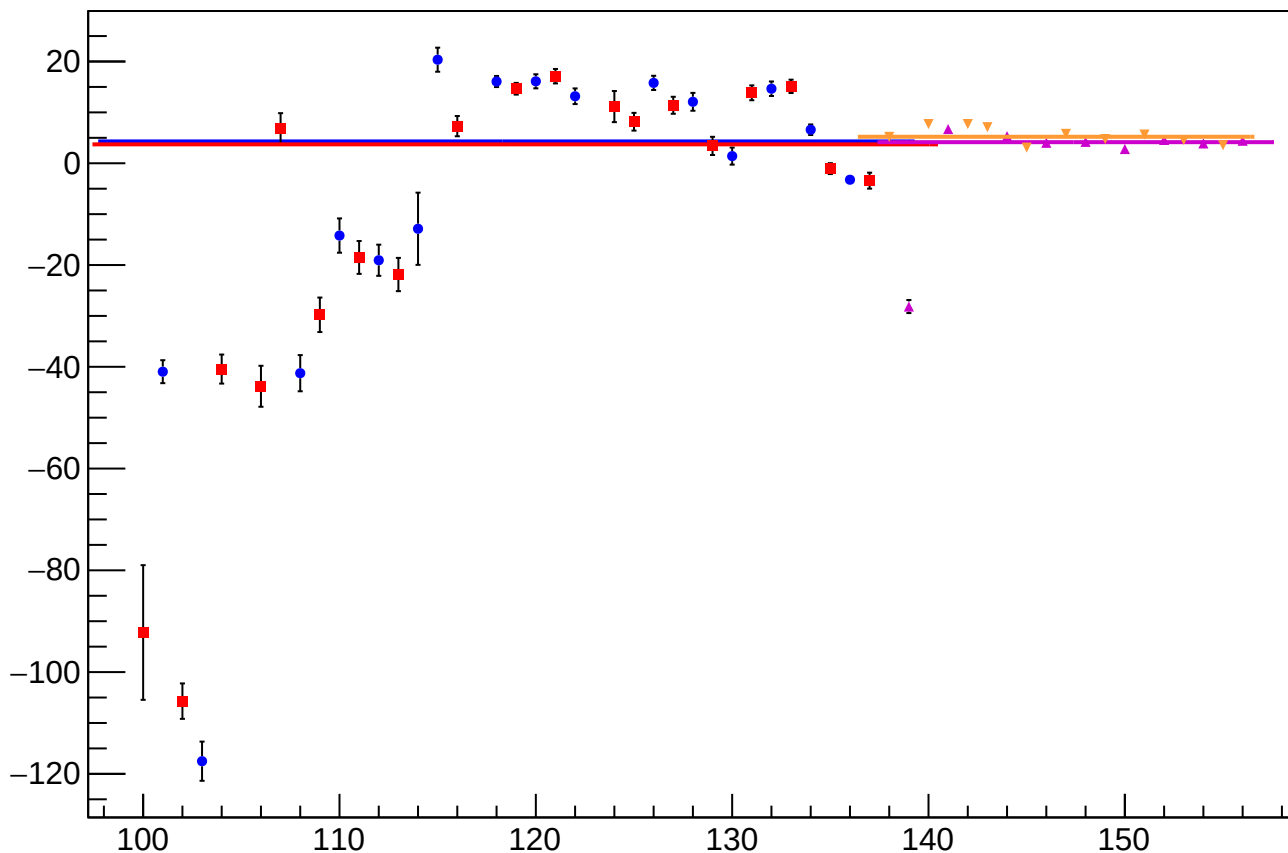
Right: -4.968 ± 0.279 χ^2/NDF : 781.0/34

In: -8.302 ± 0.181 χ^2/NDF : 1232.5/24

Out: -10.491 ± 0.186 χ^2/NDF : 1409.9/28

All: -9.370 ± 0.130 χ^2/NDF : 2713.6/53

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: 5.210 ± 0.148 χ^2/NDF : 124.2/9

Right Out: 3.717 ± 0.423 χ^2/NDF : 2007.2/18

Left In: 4.146 ± 0.139 χ^2/NDF : 685.9/8

Left: 4.643 ± 0.101 χ^2/NDF : 837.5/18

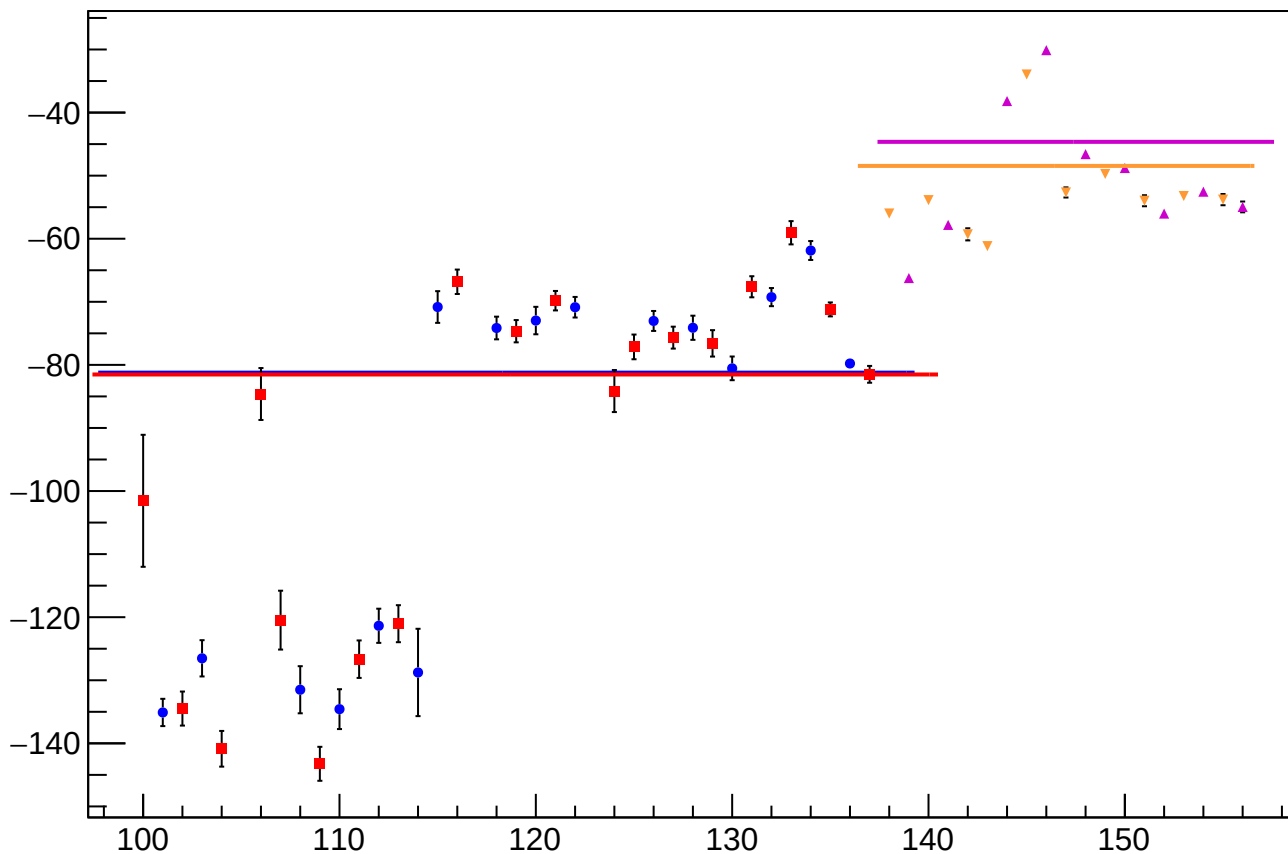
Right: 4.031 ± 0.285 χ^2/NDF : 4177.4/34

In: 4.163 ± 0.131 χ^2/NDF : 2855.2/24

Out: 5.046 ± 0.140 χ^2/NDF : 2142.6/28

All: 4.574 ± 0.096 χ^2/NDF : 5018.9/53

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.231 ± 0.417 $\chi^2/\text{NDF}: 1971.1/15$

Left Out: -48.456 ± 0.209 $\chi^2/\text{NDF}: 2294.9/9$

Right Out: -81.523 ± 0.462 $\chi^2/\text{NDF}: 2293.2/18$

Left In: -44.641 ± 0.202 $\chi^2/\text{NDF}: 3366.0/8$

Left: -46.488 ± 0.145 $\chi^2/\text{NDF}: 5833.0/18$

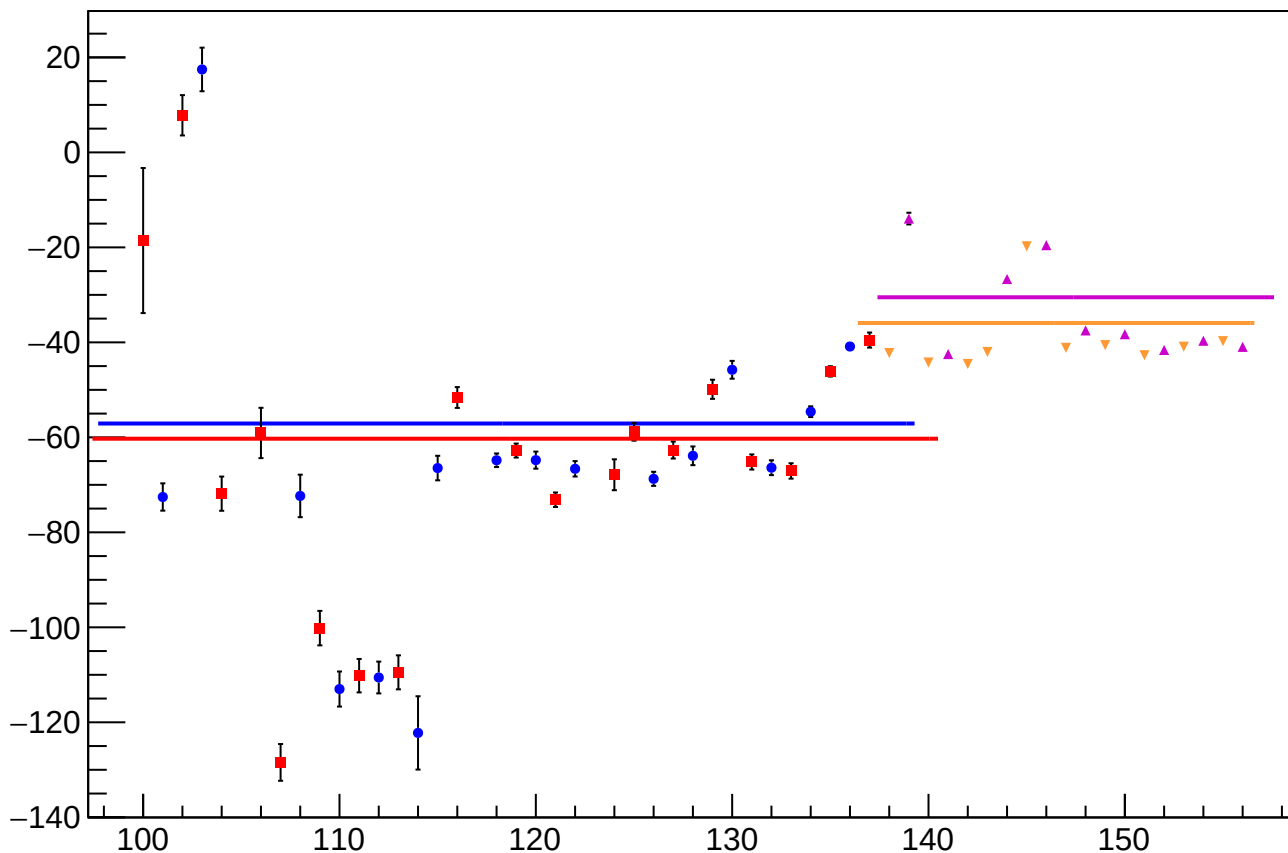
Right: -81.362 ± 0.309 $\chi^2/\text{NDF}: 4264.5/34$

In: -51.617 ± 0.182 $\chi^2/\text{NDF}: 11573.4/24$

Out: -54.075 ± 0.190 $\chi^2/\text{NDF}: 8847.7/28$

All: -52.792 ± 0.132 $\chi^2/\text{NDF}: 20508.3/53$

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: -33.060 ± 0.123 χ^2/NDF : 6728.0/18

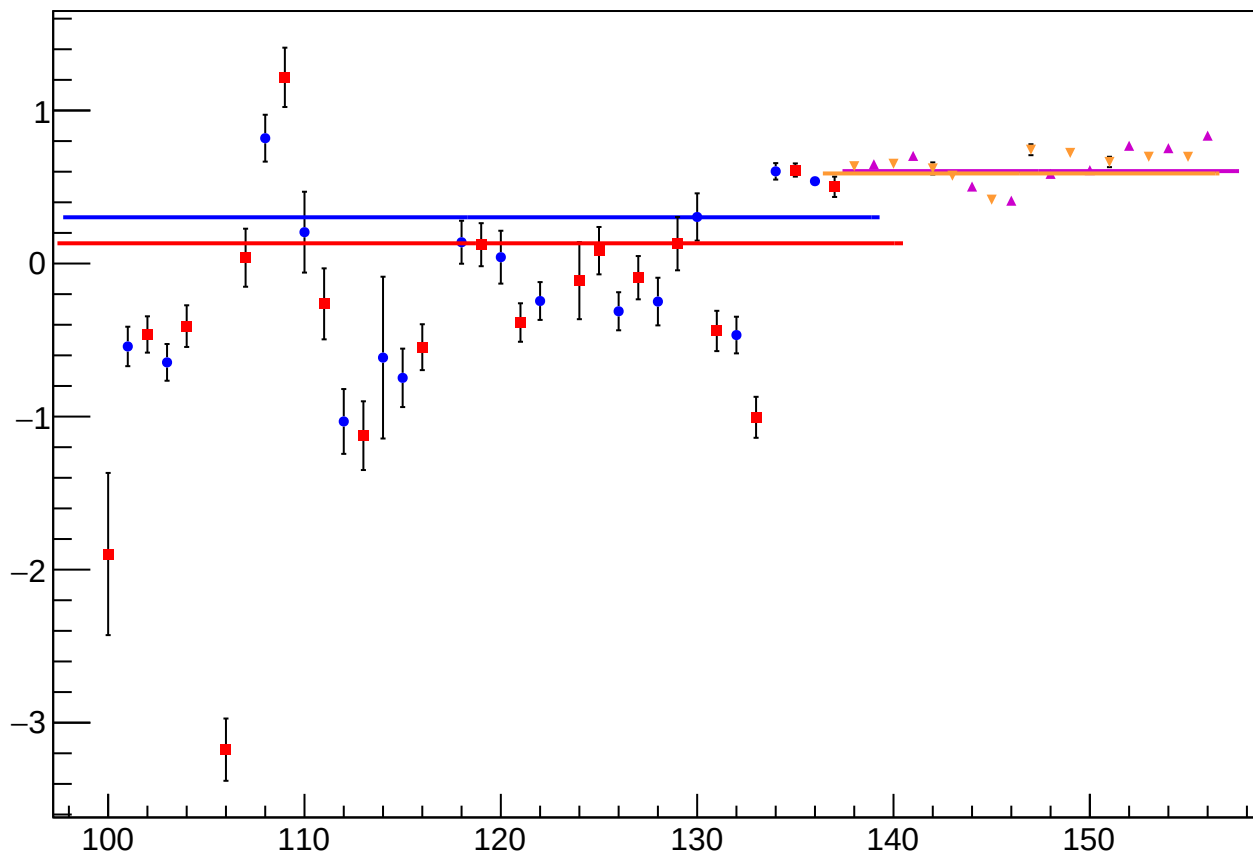
Right: -58.530 ± 0.316 χ^2/NDF : 3140.1/34

In: -34.111 ± 0.157 χ^2/NDF : 7978.9/24

Out: -38.987 ± 0.167 χ^2/NDF : 7097.1/28

All: -36.398 ± 0.114 χ^2/NDF : 15529.9/53

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.302 $\pm$ 0.023 χ^2 /NDF: 374.8/15

Left Out: 0.589 $\pm$ 0.008 χ^2 /NDF:212.5/9

Right Out: 0.132 $\pm$ 0.027 χ^2 /NDF: 672.5/18

Left In: 0.604 $\pm$ 0.008 χ^2 /NDF:312.3/8

Left: 0.596 $\pm$ 0.006 χ^2 /NDF: 526.4/18

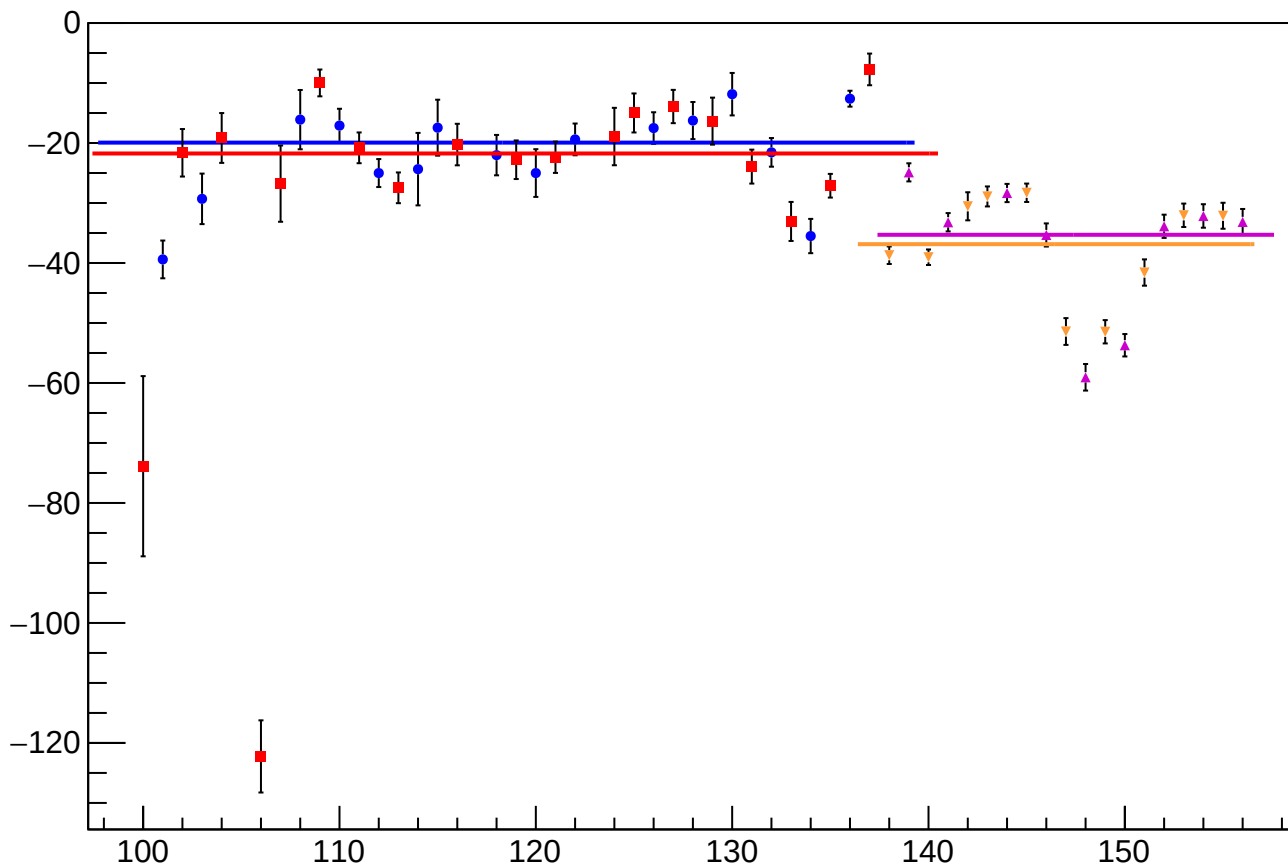
Right: 0.229 $\pm$ 0.017 χ^2 /NDF: 1070.8/34

In: 0.571 $\pm$ 0.008 χ^2 /NDF:840.8/24

Out: 0.547 $\pm$ 0.008 χ^2 /NDF:1154.6/28

All: 0.559 $\pm$ 0.006 χ^2 /NDF: 1999.9/53

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: -36.864 ± 0.561 $\chi^2/\text{NDF}: 180.2/9$

Right Out: -21.746 ± 0.714 $\chi^2/\text{NDF}: 388.3/18$

Left In: -35.302 ± 0.597 $\chi^2/\text{NDF}: 286.9/8$

Left: -36.132 ± 0.409 $\chi^2/\text{NDF}: 470.8/18$

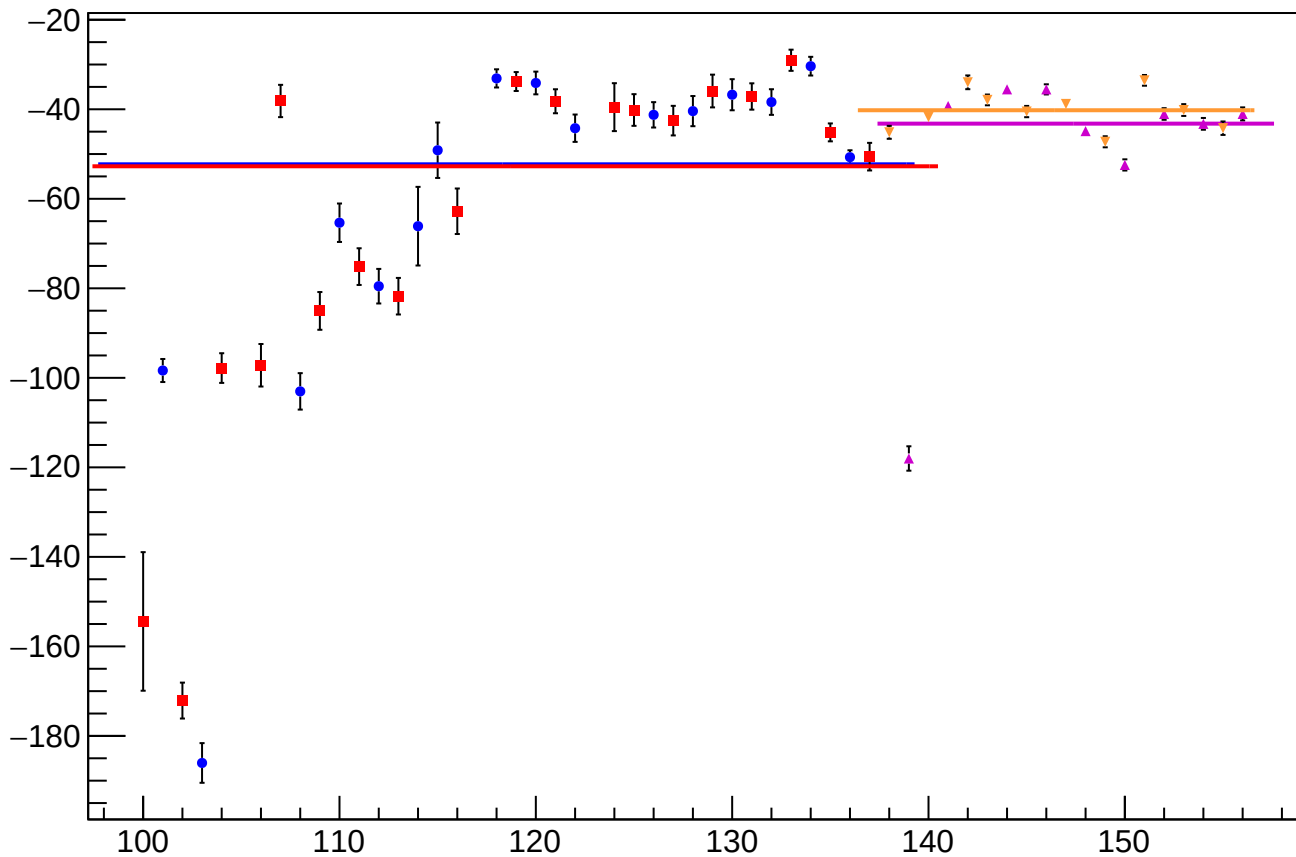
Right: -20.816 ± 0.498 $\chi^2/\text{NDF}: 512.2/34$

In: -28.770 ± 0.453 $\chi^2/\text{NDF}: 688.7/24$

Out: -31.095 ± 0.441 $\chi^2/\text{NDF}: 846.1/28$

All: -29.964 ± 0.316 $\chi^2/\text{NDF}: 1548.3/53$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -52.296 $\pm$ 0.708 χ^2 /NDF: 1778.2/15

Left Out: -40.216 $\pm$ 0.396 χ^2 /NDF:106.5/9

Right Out: -52.737 $\pm$ 0.748 χ^2 /NDF: 1662.5/18

Left In: -43.209 $\pm$ 0.419 χ^2 /NDF:919.3/8

Left: -41.625 $\pm$ 0.288 χ^2 /NDF: 1052.7/18

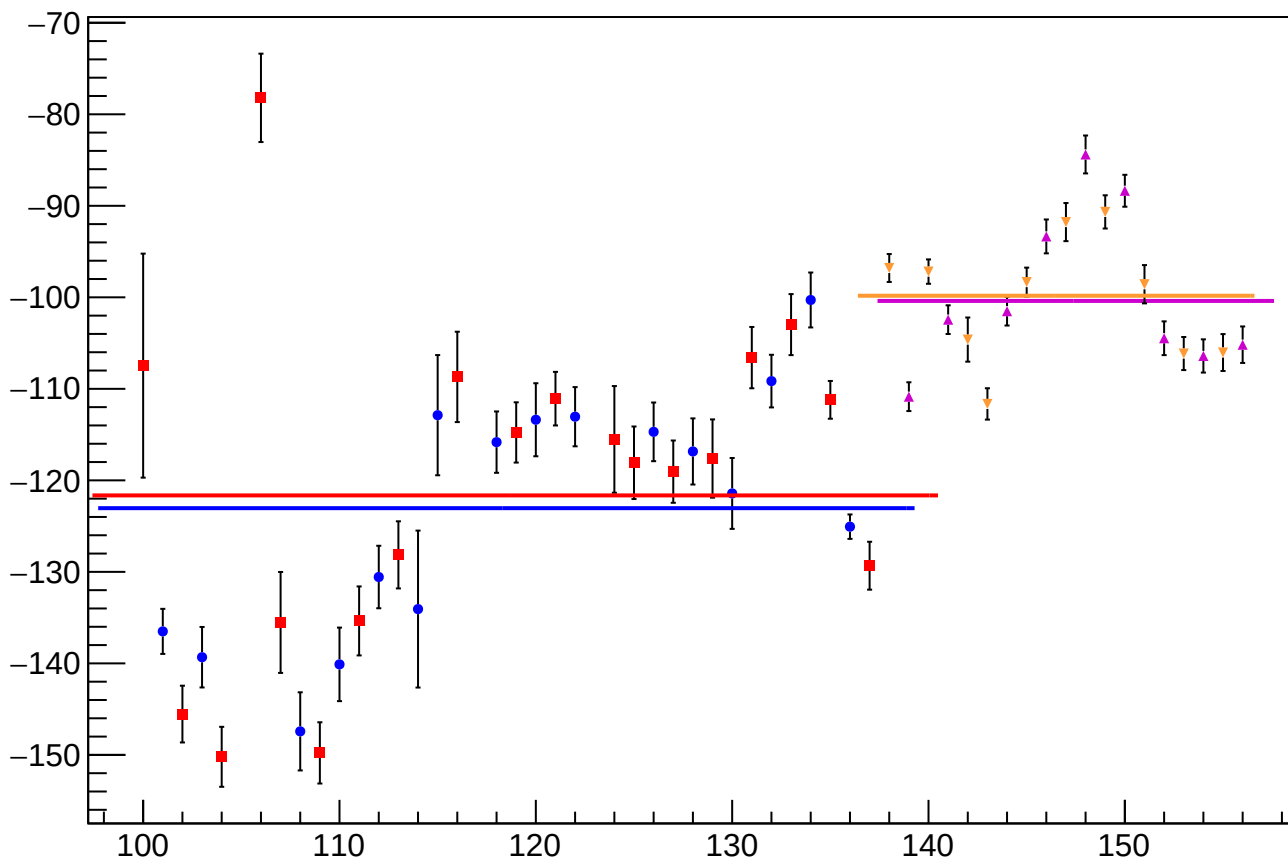
Right: -52.505 $\pm$ 0.514 χ^2 /NDF: 3440.9/34

In: -45.569 $\pm$ 0.361 χ^2 /NDF:2819.5/24

Out: -42.951 $\pm$ 0.350 χ^2 /NDF:1987.8/28

All: -44.219 $\pm$ 0.251 χ^2 /NDF: 4834.4/53

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: -99.827 ± 0.557 χ^2/NDF : 122.8/9

Right Out: -121.646 ± 0.801 χ^2/NDF : 424.5/18

Left In: -100.394 ± 0.585 χ^2/NDF : 189.9/8

Left: -100.097 ± 0.403 χ^2/NDF : 313.2/18

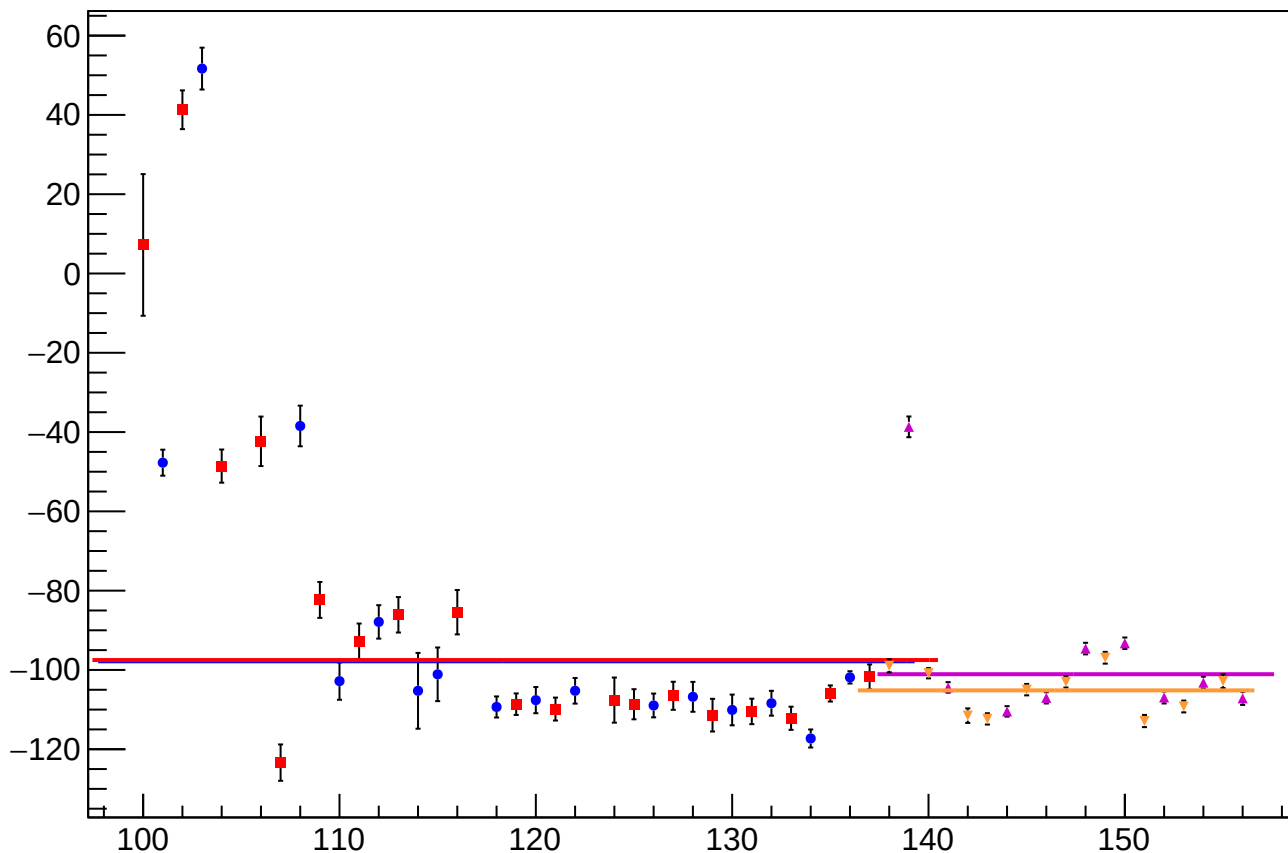
Right: -122.388 ± 0.548 χ^2/NDF : 652.9/34

In: -108.960 ± 0.461 χ^2/NDF : 983.5/24

Out: -106.937 ± 0.457 χ^2/NDF : 1047.3/28

All: -107.940 ± 0.325 χ^2/NDF : 2040.4/53

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.814+/-0.793 χ^2/NDF : 1330.8/15

Left Out: -105.156+/-0.477 χ^2/NDF :130.2/9

Right Out: -97.504+/-0.843 χ^2/NDF : 1236.4/18

Left In: -101.075+/-0.503 χ^2/NDF :722.4/8

Left: -103.223+/-0.346 χ^2/NDF : 887.3/18

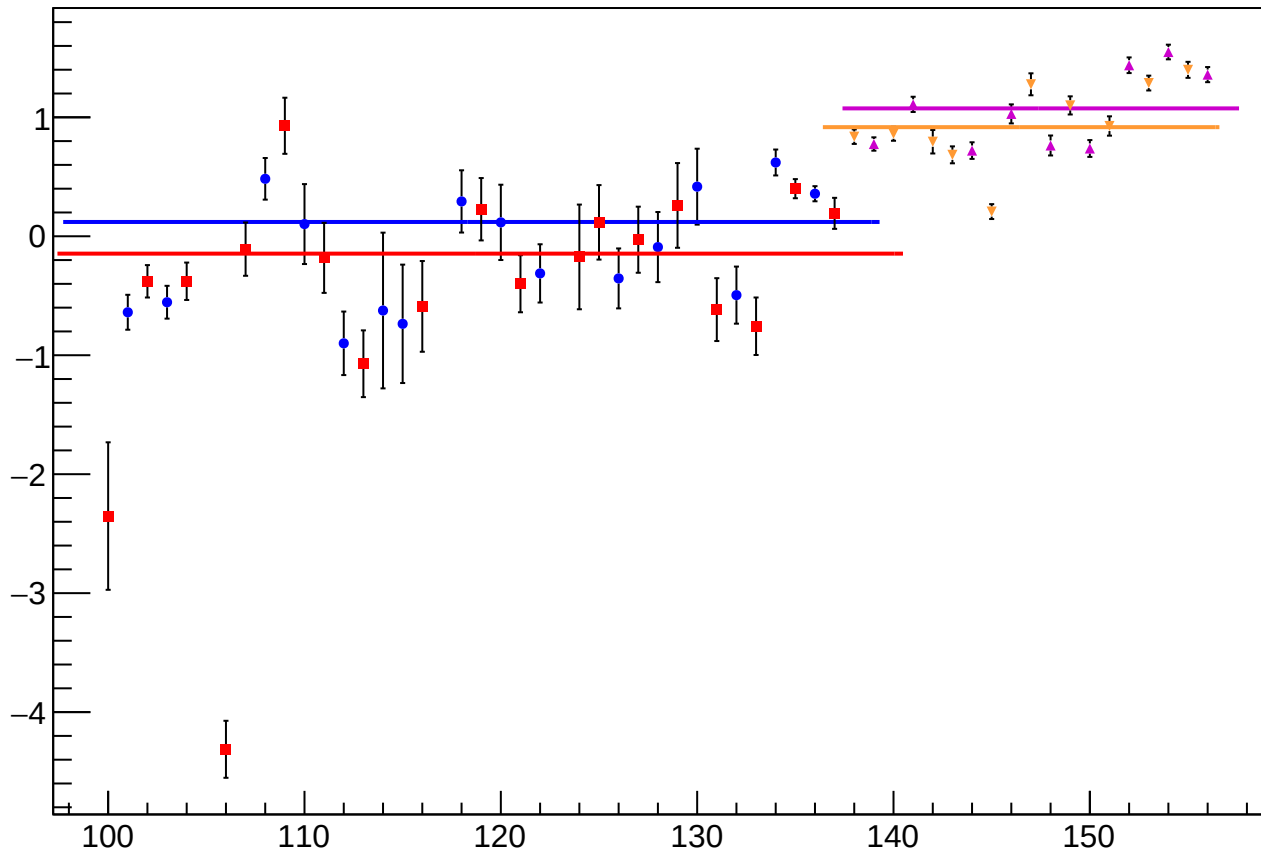
Right: -97.668+/-0.578 χ^2/NDF : 2567.3/34

In: -100.140+/-0.425 χ^2/NDF :2065.3/24

Out: -103.298+/-0.415 χ^2/NDF :1429.1/28

All: -101.755+/-0.297 χ^2/NDF : 3522.7/53

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.120 ± 0.041 $\chi^2/\text{NDF}: 123.9/15$

Left Out: 0.917 ± 0.022 $\chi^2/\text{NDF}: 251.0/9$

Right Out: -0.146 ± 0.045 $\chi^2/\text{NDF}: 421.0/18$

Left In: 1.075 ± 0.022 $\chi^2/\text{NDF}: 200.7/8$

Left: 0.996 ± 0.016 $\chi^2/\text{NDF}: 476.8/18$

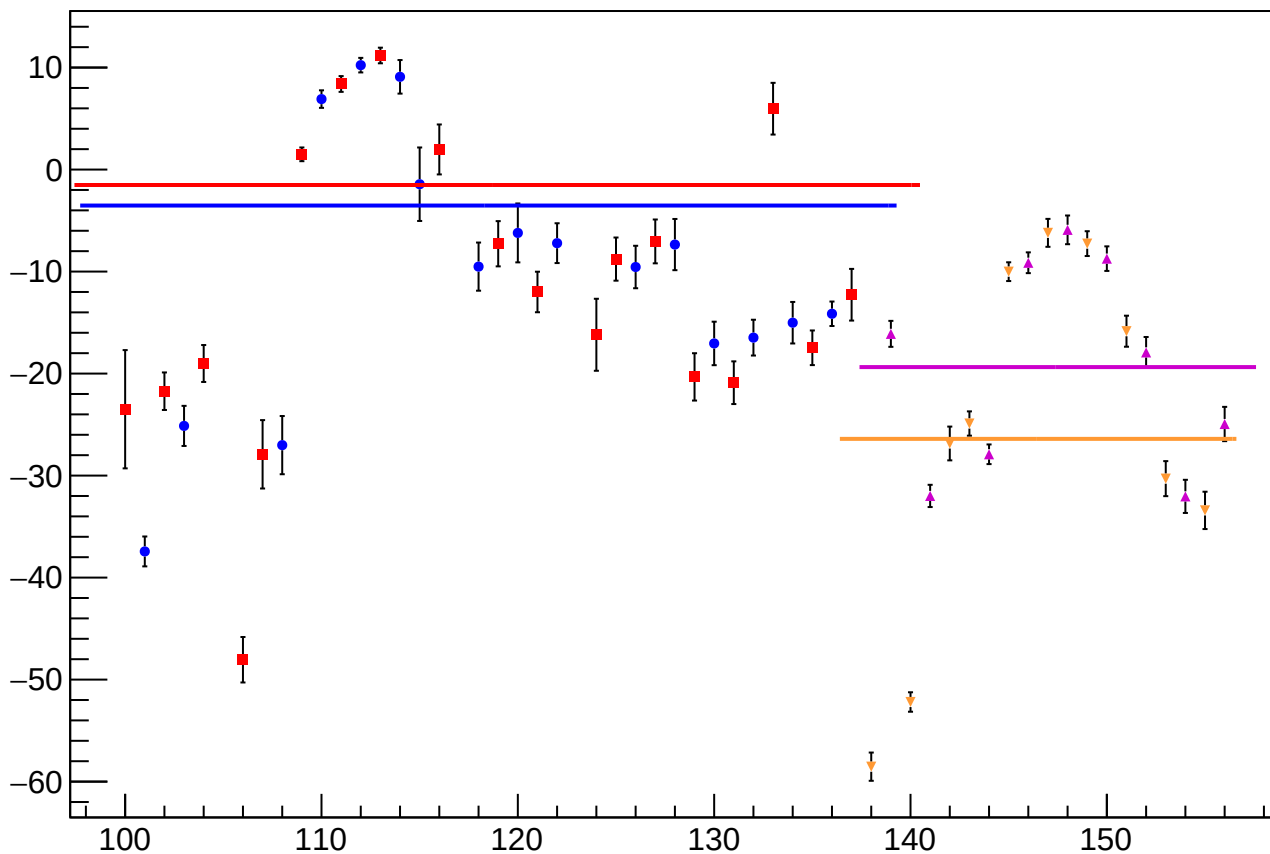
Right: -0.002 ± 0.030 $\chi^2/\text{NDF}: 563.9/34$

In: 0.858 ± 0.020 $\chi^2/\text{NDF}: 739.3/24$

Out: 0.708 ± 0.020 $\chi^2/\text{NDF}: 1122.7/28$

All: 0.784 ± 0.014 $\chi^2/\text{NDF}: 1890.9/53$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected

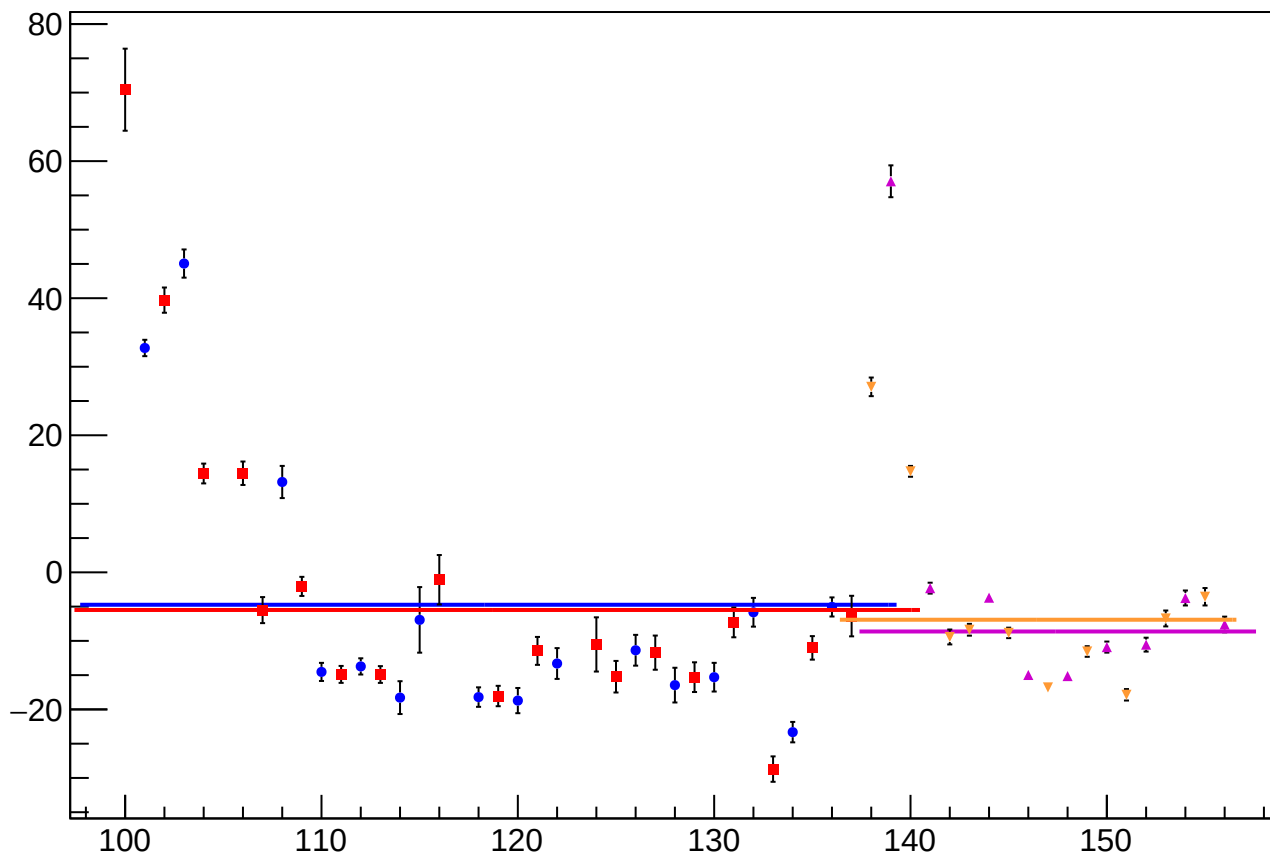


Right In: -3.527 ± 0.377 χ^2/NDF : 1529.1/15
 Left Out: -26.400 ± 0.403 χ^2/NDF : 2122.9/9
 Right Out: -1.513 ± 0.338 χ^2/NDF : 1524.7/18
 Left In: -19.364 ± 0.413 χ^2/NDF : 562.5/8

Left: -22.966 ± 0.288 χ^2/NDF : 2834.1/18
 Right: -2.413 ± 0.252 χ^2/NDF : 3069.7/34
 In: -10.722 ± 0.278 χ^2/NDF : 2894.3/24
 Out: -11.802 ± 0.259 χ^2/NDF : 5883.1/28

All: -11.301 ± 0.190 χ^2/NDF : 8785.5/53

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: -6.915 ± 0.277 χ^2/NDF : 1847.5/9

Right Out: -5.491 ± 0.422 χ^2/NDF : 1508.6/18

Left In: -8.631 ± 0.280 χ^2/NDF : 1143.9/8

Left: -7.765 ± 0.197 χ^2/NDF : 3010.3/18

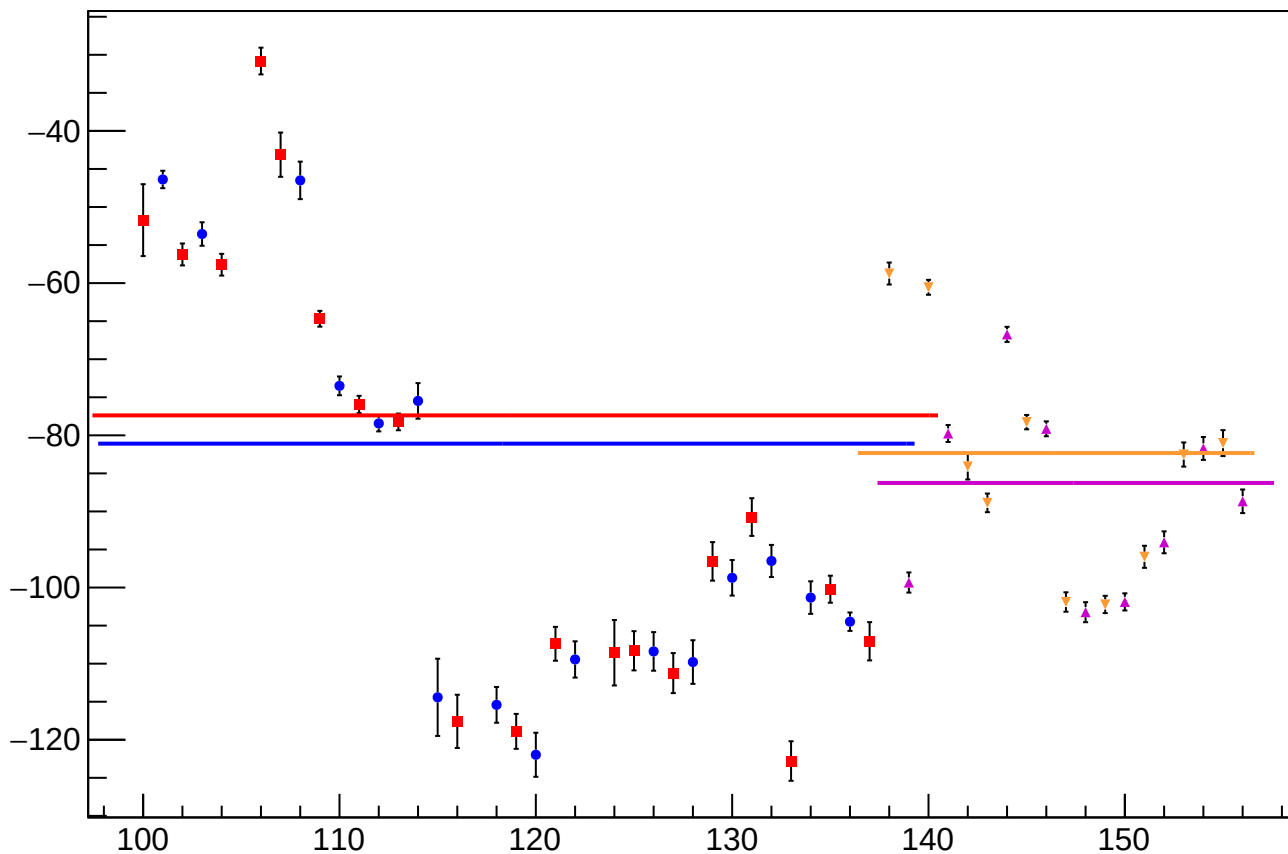
Right: -5.118 ± 0.302 χ^2/NDF : 3658.1/34

In: -7.472 ± 0.235 χ^2/NDF : 3349.5/24

Out: -6.486 ± 0.232 χ^2/NDF : 3364.0/28

All: -6.972 ± 0.165 χ^2/NDF : 6722.5/53

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.091 ± 0.438 χ^2/NDF : 2870.3/15

Left Out: -82.327 ± 0.400 χ^2/NDF : 1438.2/9

Right Out: -77.379 ± 0.417 χ^2/NDF : 3129.7/18

Left In: -86.254 ± 0.404 χ^2/NDF : 970.6/8

Left: -84.271 ± 0.284 χ^2/NDF : 2456.5/18

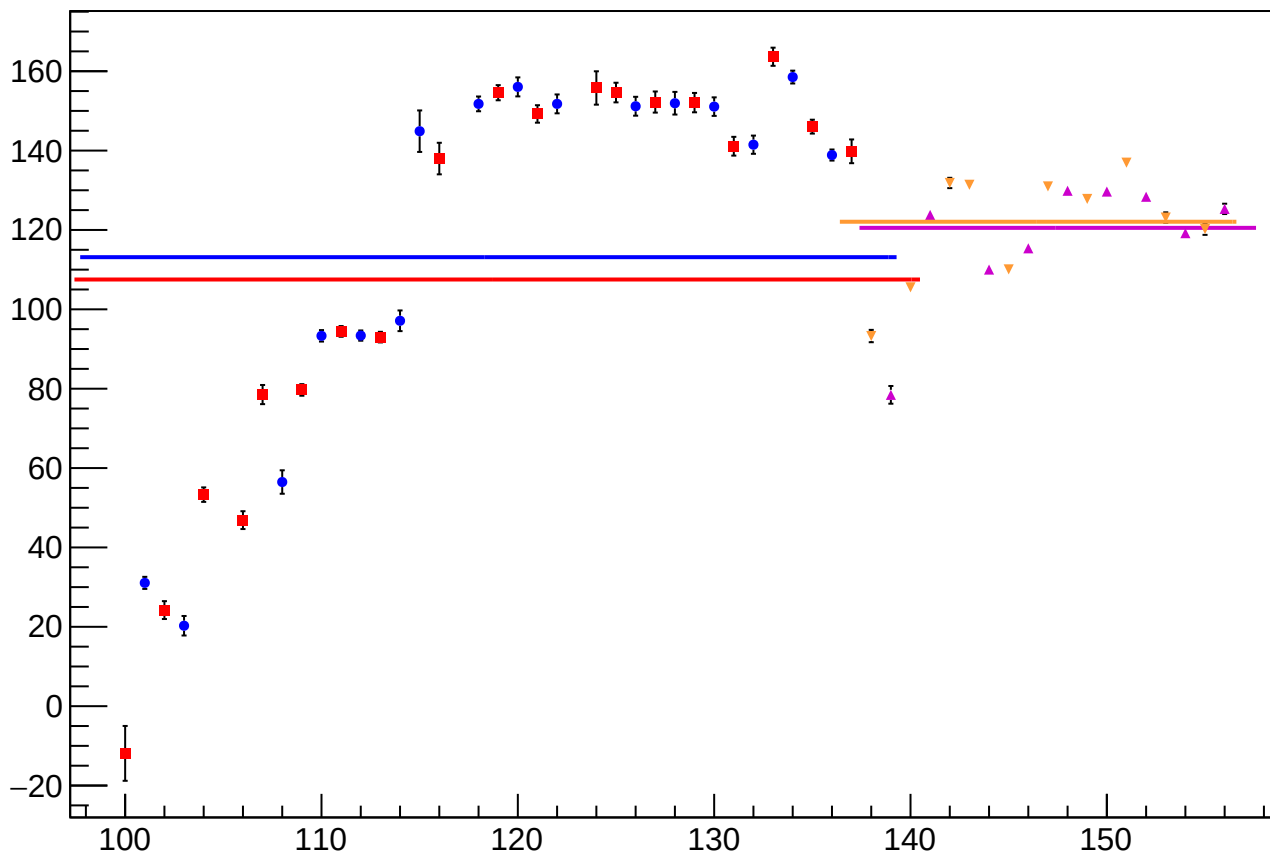
Right: -79.142 ± 0.302 χ^2/NDF : 6037.6/34

In: -83.884 ± 0.297 χ^2/NDF : 3915.9/24

Out: -79.956 ± 0.289 χ^2/NDF : 4641.2/28

All: -81.863 ± 0.207 χ^2/NDF : 8647.1/53

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: 122.071 $\pm$ 0.337 χ^2 /NDF:1313.7/9

Right Out: 107.515 $\pm$ 0.479 χ^2 /NDF: 7544.0/18

Left In: 120.530 $\pm$ 0.339 χ^2 /NDF:827.0/8

Left: 121.305 $\pm$ 0.239 χ^2 /NDF: 2151.1/18

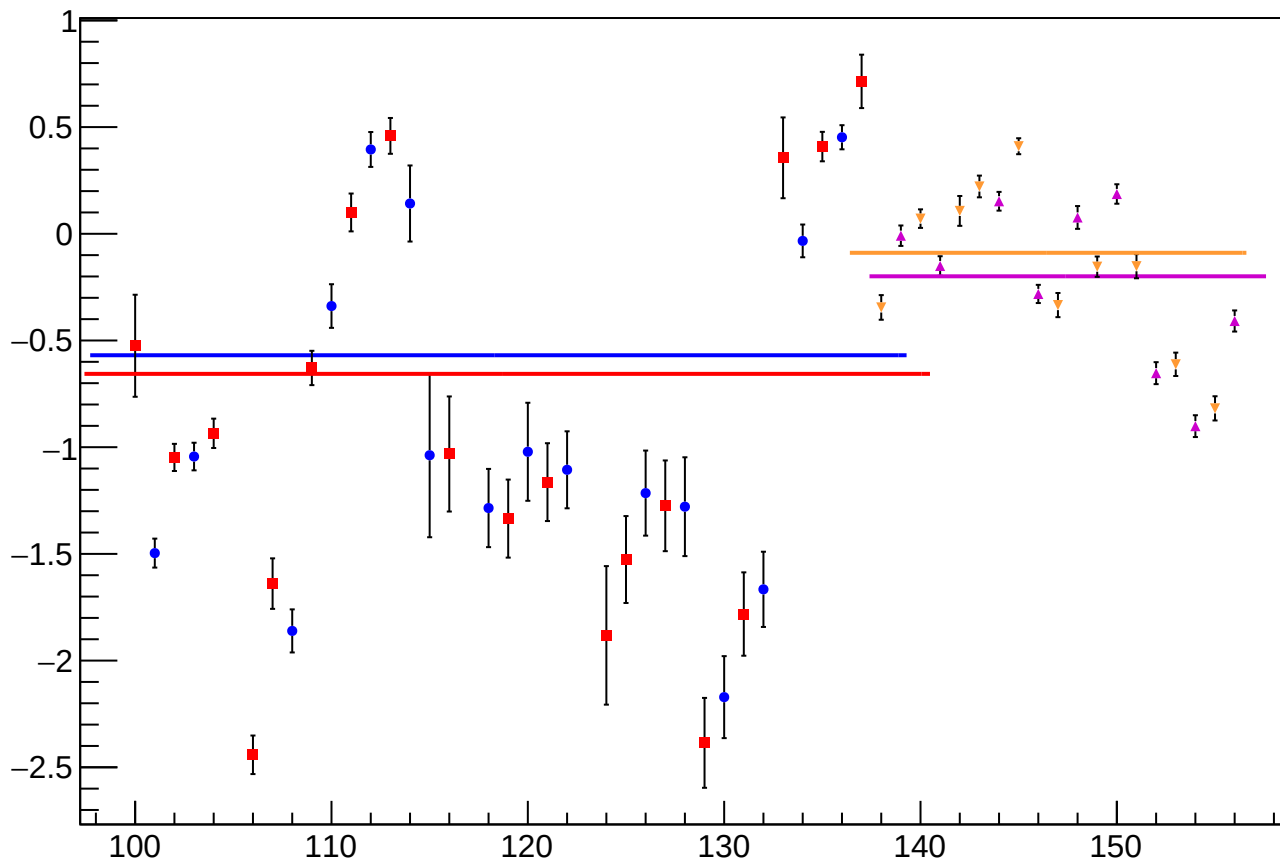
Right: 110.273 $\pm$ 0.342 χ^2 /NDF: 15815.7/34

In: 118.133 $\pm$ 0.279 χ^2 /NDF:9185.3/24

Out: 117.254 $\pm$ 0.276 χ^2 /NDF:9474.7/28

All: 117.689 $\pm$ 0.196 χ^2 /NDF: 18665.0/53

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: -0.089 ± 0.016 χ^2/NDF : 534.6/9

Right Out: -0.656 ± 0.025 χ^2/NDF : 1315.2/18

Left In: -0.199 ± 0.016 χ^2/NDF : 467.3/8

Left: -0.145 ± 0.011 χ^2/NDF : 1025.6/18

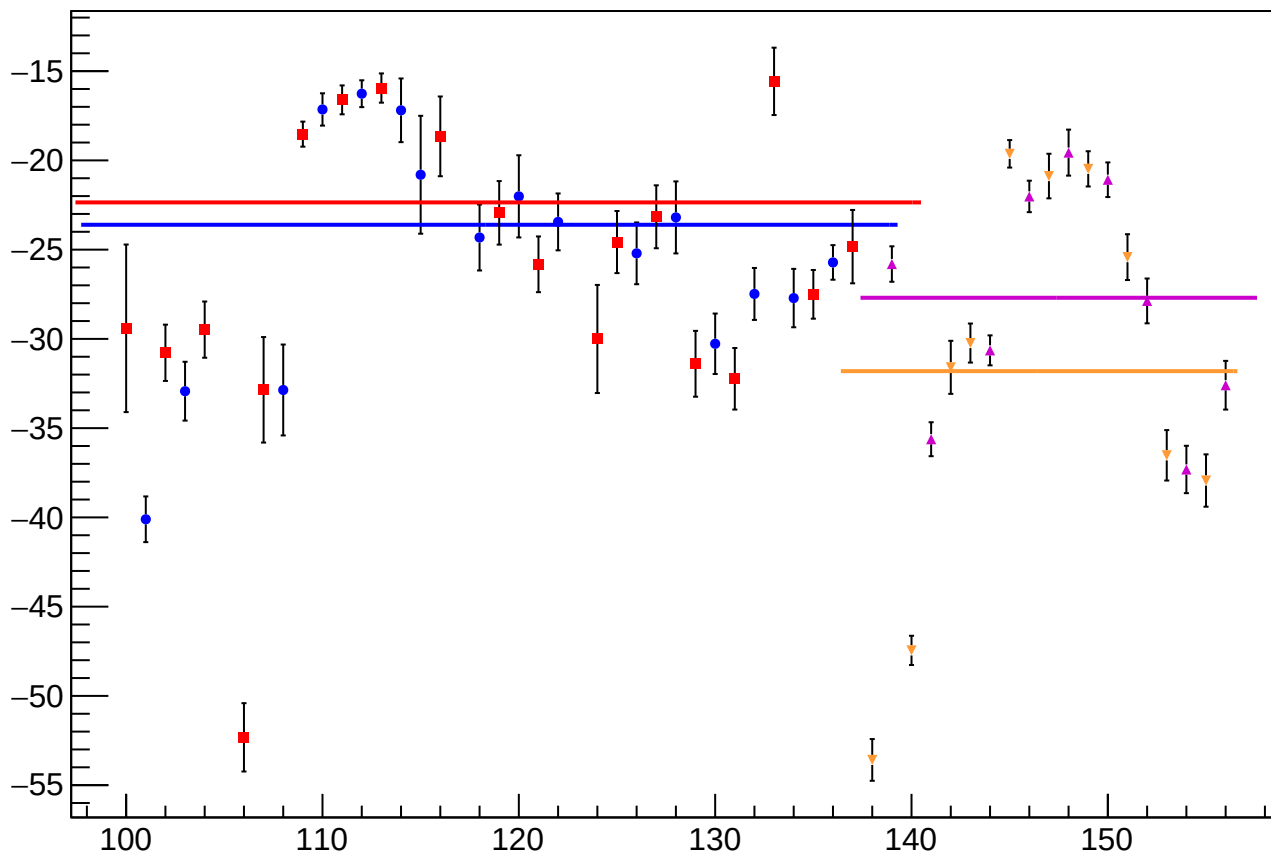
Right: -0.614 ± 0.018 χ^2/NDF : 2418.5/34

In: -0.301 ± 0.013 χ^2/NDF : 1714.0/24

Out: -0.254 ± 0.014 χ^2/NDF : 2209.1/28

All: -0.277 ± 0.010 χ^2/NDF : 3929.0/53

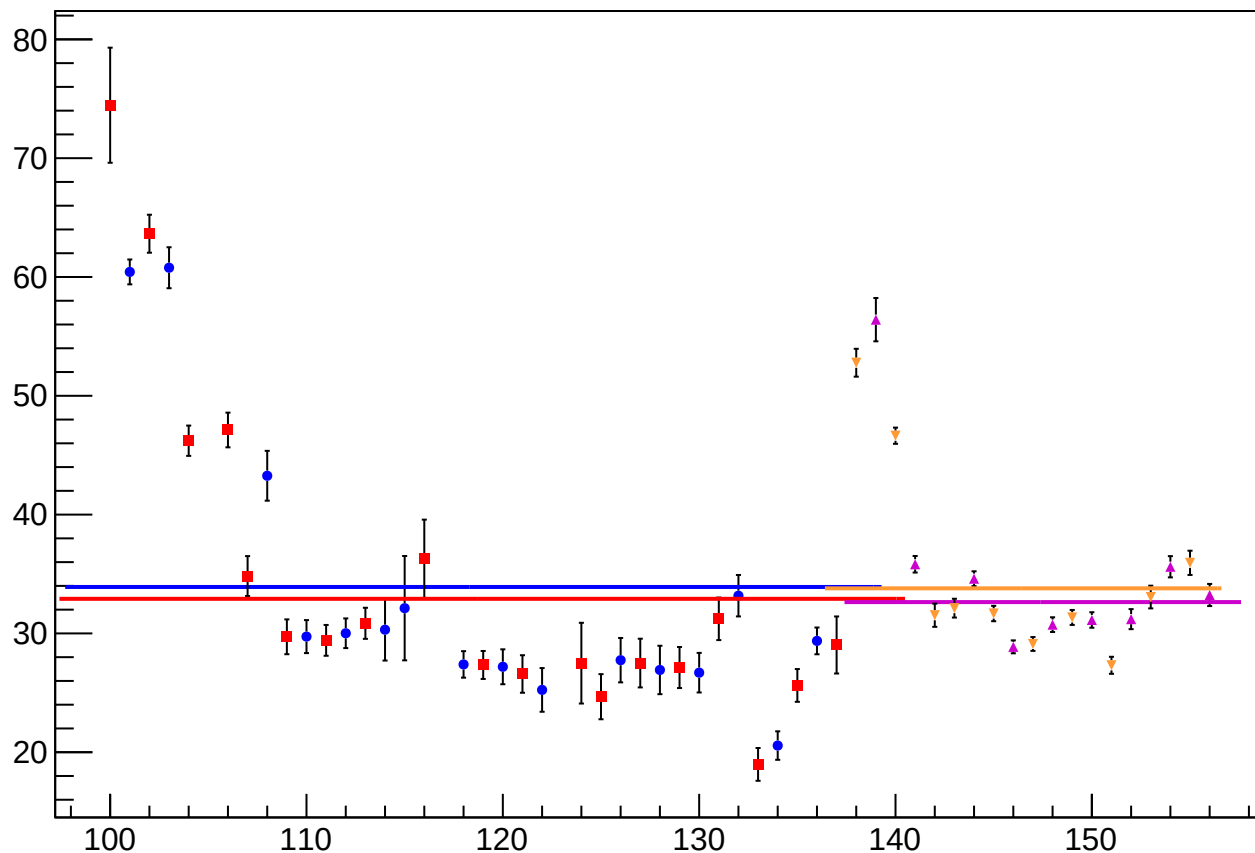
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.607 ± 0.348 $\chi^2/\text{NDF}: 406.4/15$
 Left Out: -31.806 ± 0.344 $\chi^2/\text{NDF}: 1225.2/9$
 Right Out: -22.354 ± 0.322 $\chi^2/\text{NDF}: 551.7/18$
 Left In: -27.696 ± 0.349 $\chi^2/\text{NDF}: 278.5/8$

Left: -29.777 ± 0.245 $\chi^2/\text{NDF}: 1574.1/18$
 Right: -22.931 ± 0.236 $\chi^2/\text{NDF}: 965.1/34$
 In: -25.649 ± 0.246 $\chi^2/\text{NDF}: 753.8/24$
 Out: -26.761 ± 0.235 $\chi^2/\text{NDF}: 2179.3/28$
 All: -26.231 ± 0.170 $\chi^2/\text{NDF}: 2943.7/53$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.909 $\pm$ 0.375 χ^2 /NDF: 1184.4/15

Left Out: 33.794 $\pm$ 0.240 χ^2 /NDF: 803.6/9

Right Out: 32.911 $\pm$ 0.373 χ^2 /NDF: 875.0/18

Left In: 32.636 $\pm$ 0.242 χ^2 /NDF: 278.2/8

Left: 33.220 $\pm$ 0.170 χ^2 /NDF: 1093.3/18

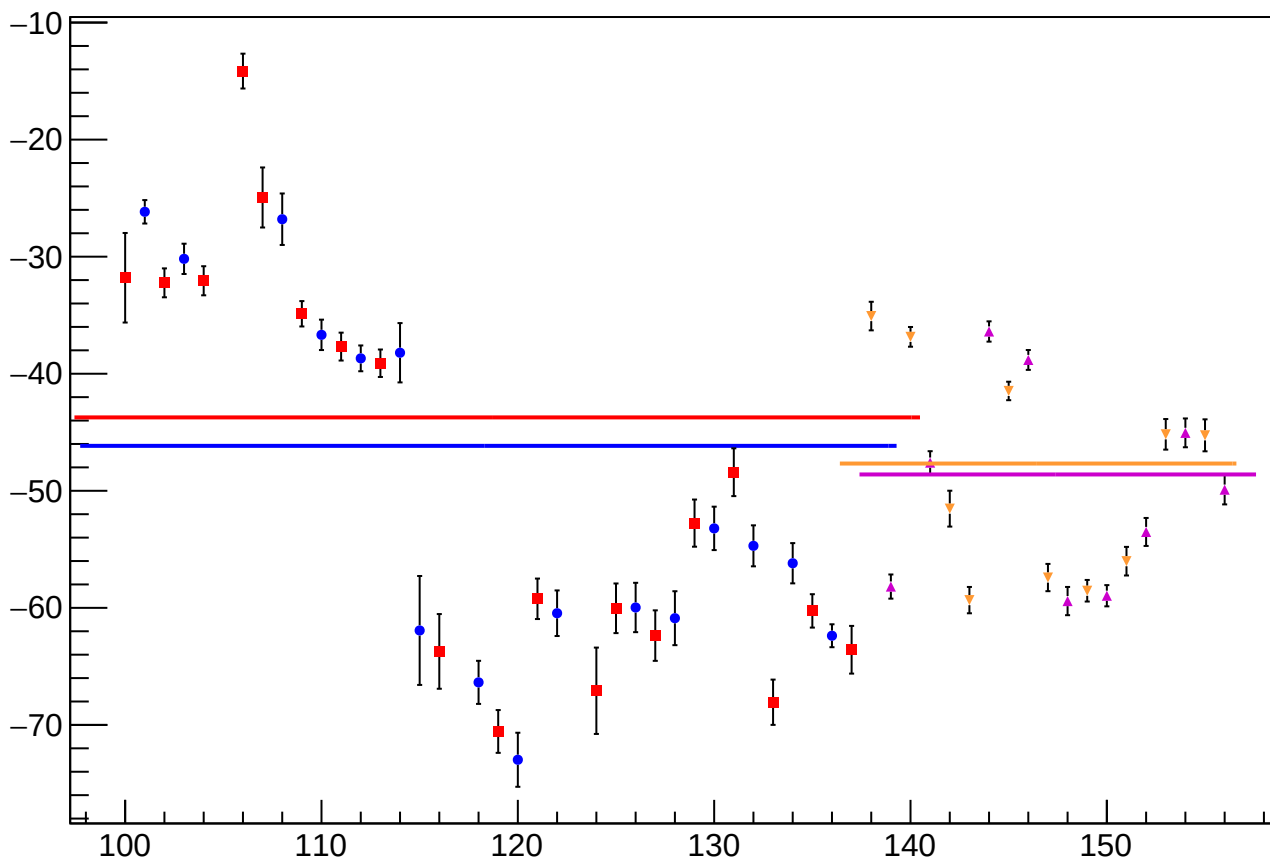
Right: 33.407 $\pm$ 0.264 χ^2 /NDF: 2062.9/34

In: 33.010 $\pm$ 0.203 χ^2 /NDF: 1470.7/24

Out: 33.535 $\pm$ 0.202 χ^2 /NDF: 1682.5/28

All: 33.275 $\pm$ 0.143 χ^2 /NDF: 3156.6/53

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: -47.672 $\pm$ 0.341 χ^2 /NDF: 709.2/9

Right Out: -43.730 $\pm$ 0.378 χ^2 /NDF: 1663.4/18

Left In: -48.604 $\pm$ 0.341 χ^2 /NDF: 656.0/8

Left: -48.138 $\pm$ 0.241 χ^2 /NDF: 1369.0/18

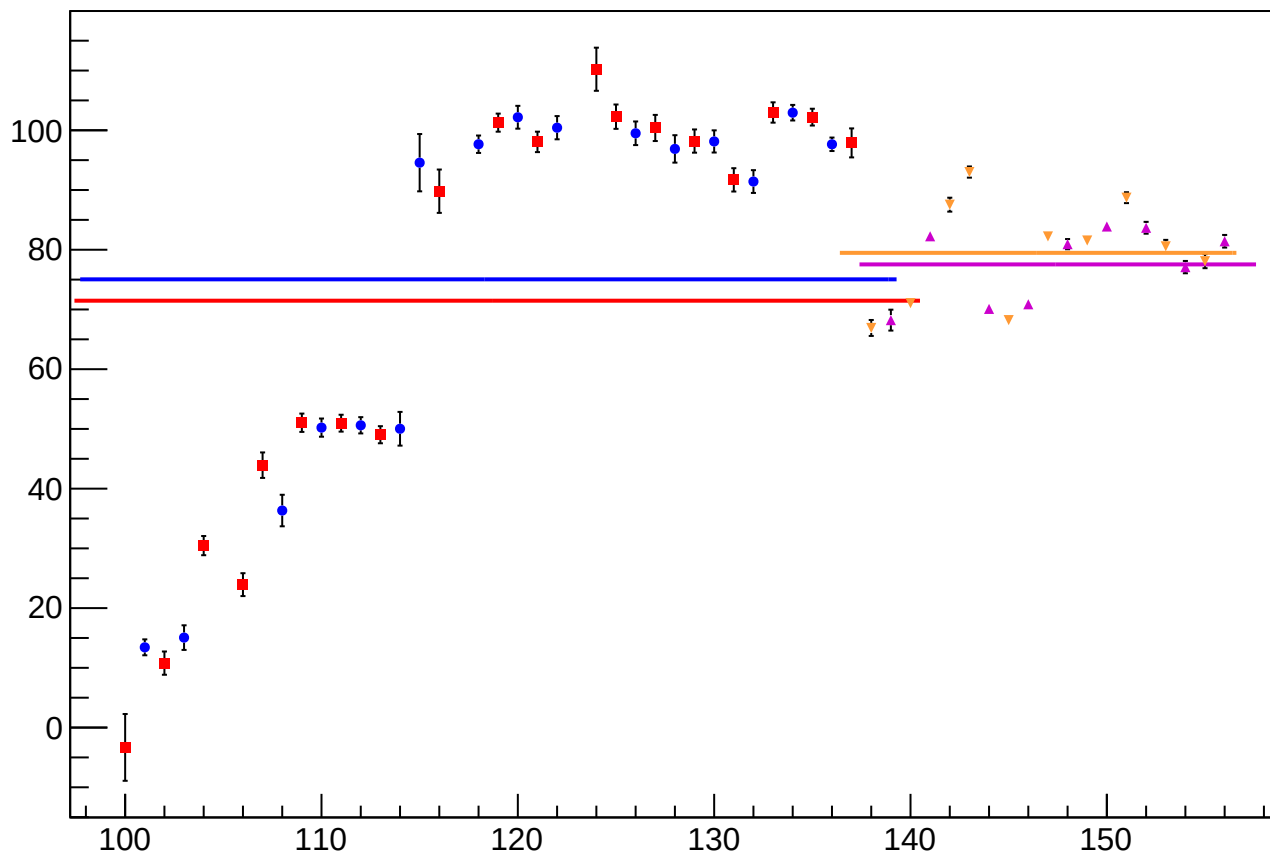
Right: -44.909 $\pm$ 0.271 χ^2 /NDF: 3173.0/34

In: -47.545 $\pm$ 0.257 χ^2 /NDF: 2167.9/24

Out: -45.906 $\pm$ 0.253 χ^2 /NDF: 2432.5/28

All: -46.714 $\pm$ 0.180 χ^2 /NDF: 4621.1/53

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: 79.480 $\pm$ 0.290 χ^2 /NDF: 809.3/9

Right Out: 71.468 $\pm$ 0.426 χ^2 /NDF: 5628.2/18

Left In: 77.543 $\pm$ 0.290 χ^2 /NDF: 403.1/8

Left: 78.512 $\pm$ 0.205 χ^2 /NDF: 1234.7/18

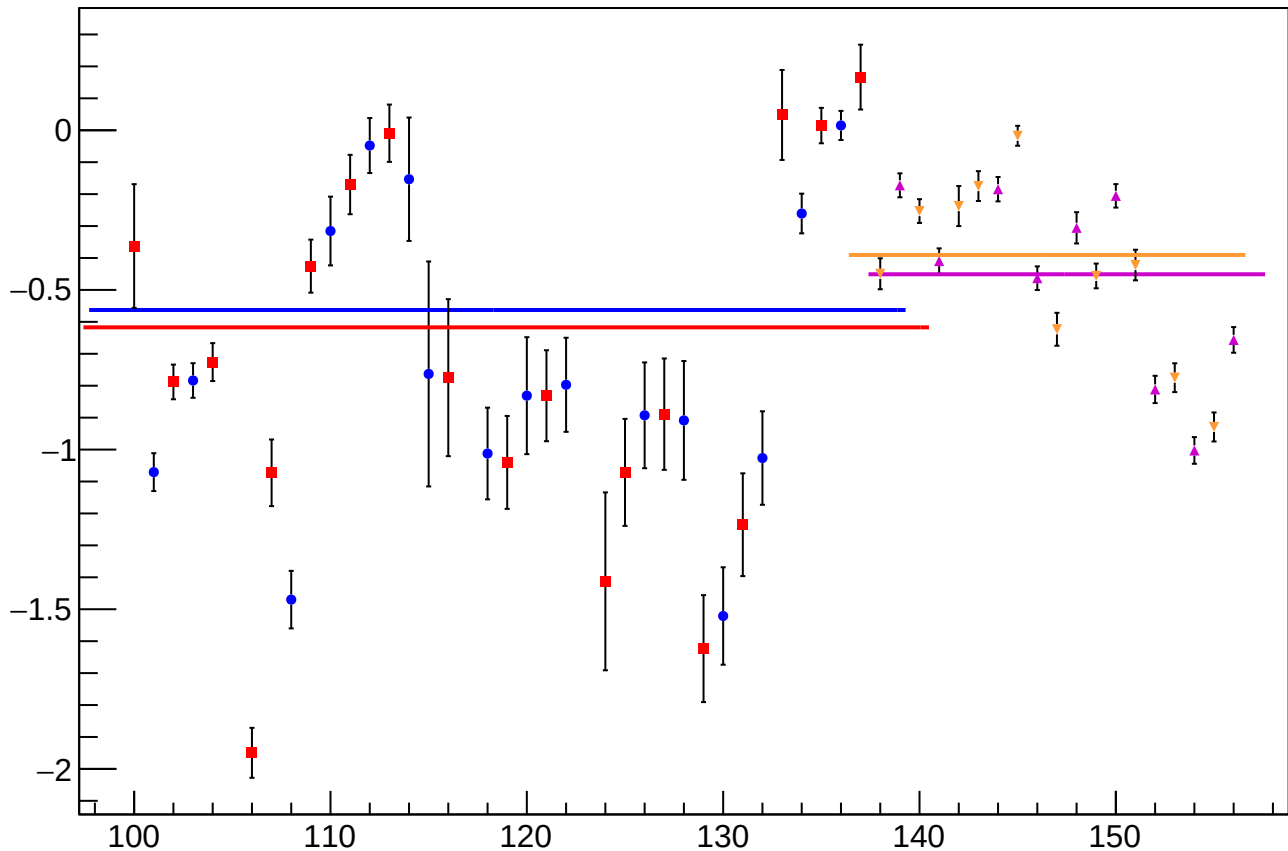
Right: 73.248 $\pm$ 0.302 χ^2 /NDF: 11491.6/34

In: 76.754 $\pm$ 0.240 χ^2 /NDF: 6254.8/24

Out: 76.940 $\pm$ 0.240 χ^2 /NDF: 6679.4/28

All: 76.847 $\pm$ 0.170 χ^2 /NDF: 12934.5/53

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: -0.391 ± 0.014 χ^2/NDF : 422.4/9

Right Out: -0.617 ± 0.022 χ^2/NDF : 690.0/18

Left In: -0.451 ± 0.013 χ^2/NDF : 430.6/8

Left: -0.422 ± 0.010 χ^2/NDF : 863.0/18

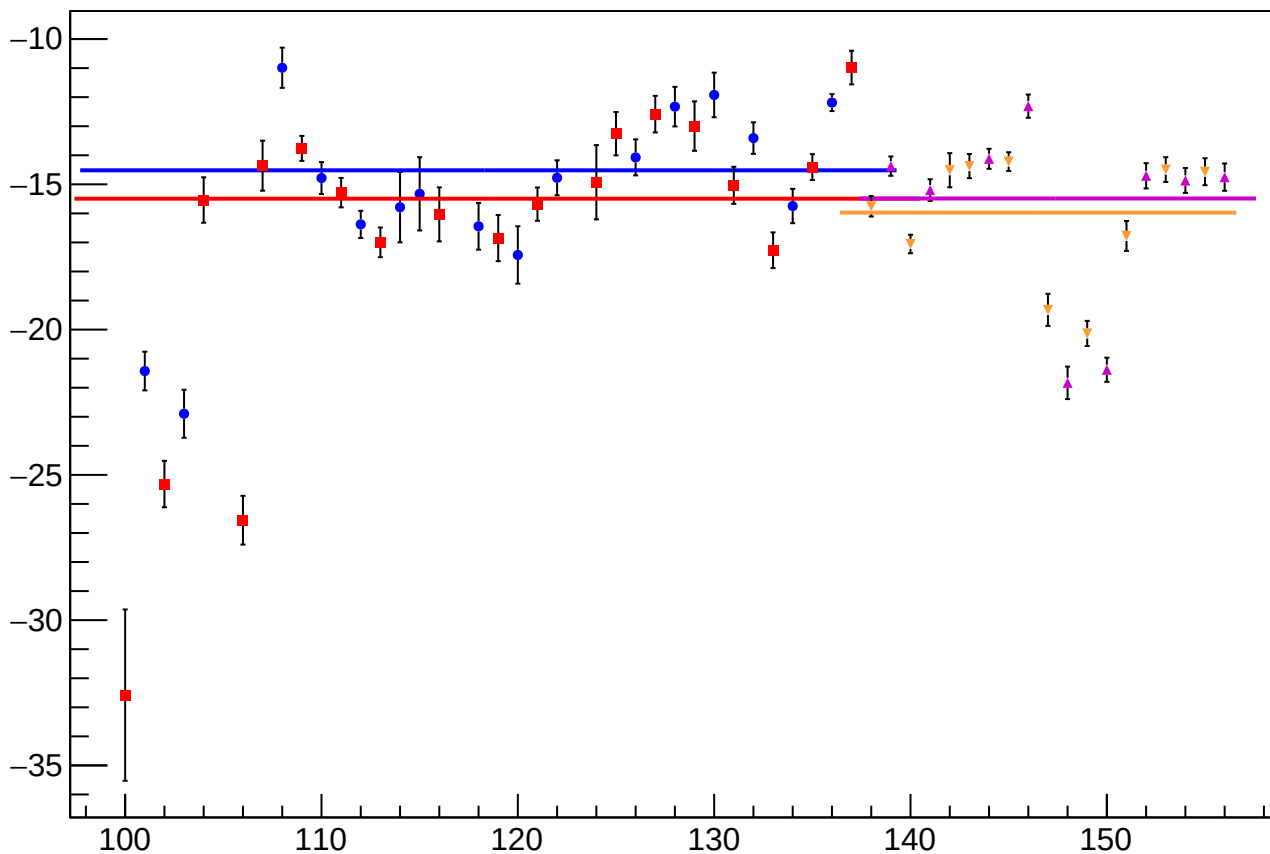
Right: -0.590 ± 0.016 χ^2/NDF : 1186.0/34

In: -0.480 ± 0.011 χ^2/NDF : 942.2/24

Out: -0.453 ± 0.012 χ^2/NDF : 1188.0/28

All: -0.467 ± 0.008 χ^2/NDF : 2133.1/53

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: -15.974 ± 0.130 χ^2/NDF : 215.3/9

Right Out: -15.494 ± 0.150 χ^2/NDF : 503.8/18

Left In: -15.488 ± 0.135 χ^2/NDF : 428.3/8

Left: -15.739 ± 0.094 χ^2/NDF : 650.3/18

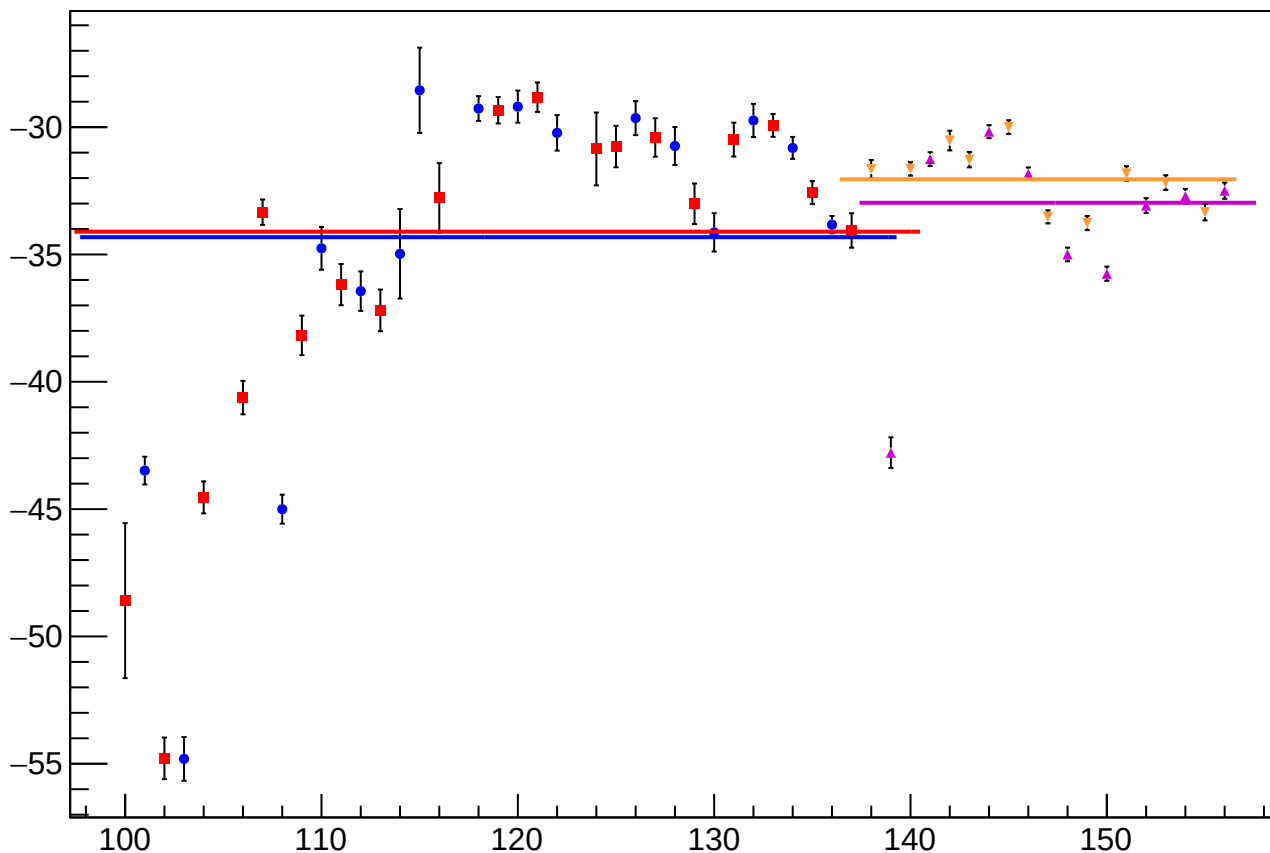
Right: -15.004 ± 0.106 χ^2/NDF : 888.5/34

In: -15.053 ± 0.100 χ^2/NDF : 814.9/24

Out: -15.767 ± 0.098 χ^2/NDF : 725.0/28

All: -15.416 ± 0.070 χ^2/NDF : 1565.7/53

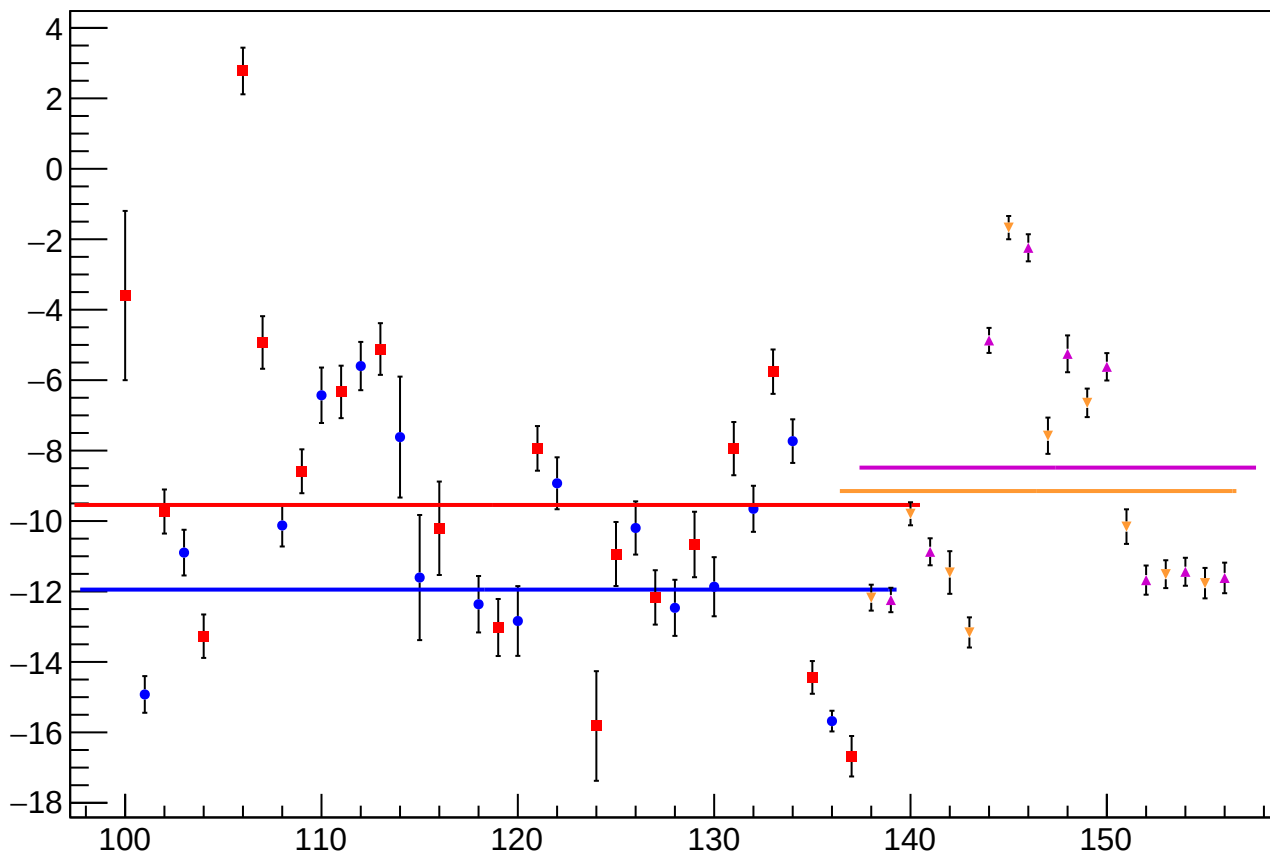
reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.321 ± 0.153 $\chi^2/\text{NDF}: 1620.5/15$
 Left Out: -32.048 ± 0.093 $\chi^2/\text{NDF}: 171.8/9$
 Right Out: -34.104 ± 0.154 $\chi^2/\text{NDF}: 1434.8/18$
 Left In: -32.969 ± 0.096 $\chi^2/\text{NDF}: 603.2/8$

Left: -32.493 ± 0.067 $\chi^2/\text{NDF}: 822.4/18$
 Right: -34.213 ± 0.109 $\chi^2/\text{NDF}: 3056.3/34$
 In: -33.351 ± 0.081 $\chi^2/\text{NDF}: 2279.5/24$
 Out: -32.597 ± 0.080 $\chi^2/\text{NDF}: 1737.0/28$
 All: -32.966 ± 0.057 $\chi^2/\text{NDF}: 4060.3/53$

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: -9.149 ± 0.129 χ^2/NDF : 811.4/9

Right Out: -9.544 ± 0.165 χ^2/NDF : 847.1/18

Left In: -8.483 ± 0.132 χ^2/NDF : 782.5/8

Left: -8.823 ± 0.092 χ^2/NDF : 1606.9/18

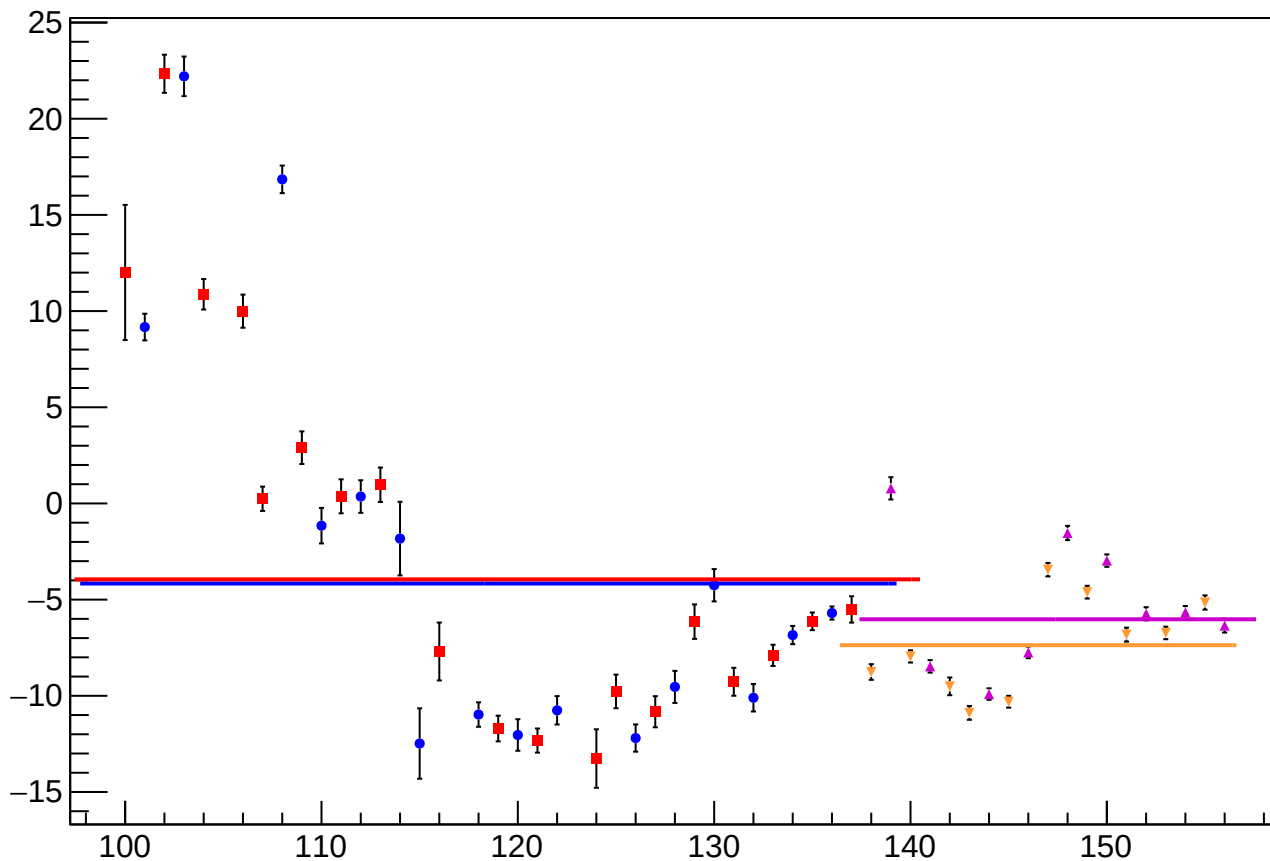
Right: -10.782 ± 0.115 χ^2/NDF : 1386.2/34

In: -9.882 ± 0.102 χ^2/NDF : 1491.4/24

Out: -9.299 ± 0.102 χ^2/NDF : 1662.1/28

All: -9.590 ± 0.072 χ^2/NDF : 3169.9/53

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.163 ± 0.172 $\chi^2/\text{NDF}: 2525.0/15$

Left Out: -7.370 ± 0.111 $\chi^2/\text{NDF}: 461.9/9$

Right Out: -3.947 ± 0.176 $\chi^2/\text{NDF}: 2110.2/18$

Left In: -6.022 ± 0.114 $\chi^2/\text{NDF}: 634.1/8$

Left: -6.713 ± 0.080 $\chi^2/\text{NDF}: 1167.2/18$

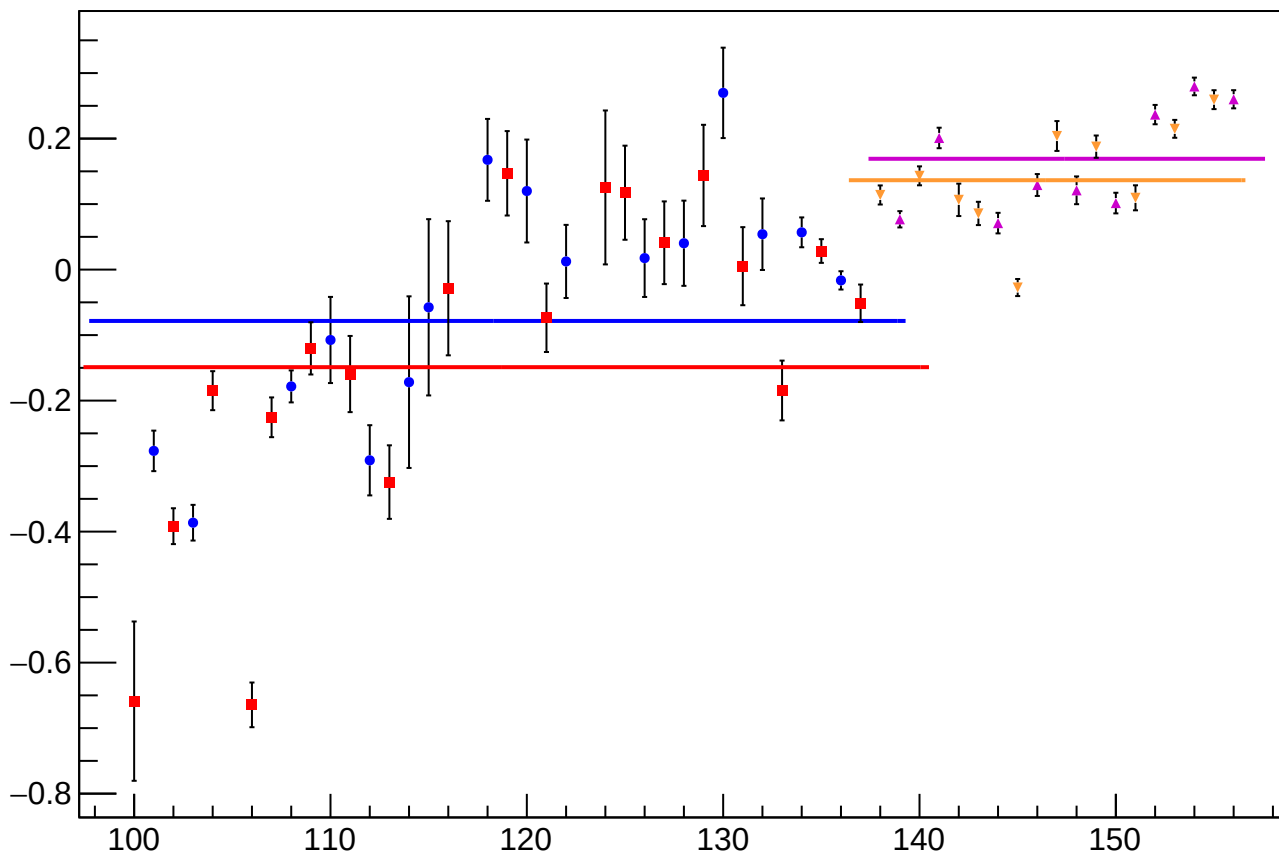
Right: -4.057 ± 0.123 $\chi^2/\text{NDF}: 4636.0/34$

In: -5.452 ± 0.095 $\chi^2/\text{NDF}: 3240.2/24$

Out: -6.390 ± 0.094 $\chi^2/\text{NDF}: 2841.9/28$

All: -5.926 ± 0.067 $\chi^2/\text{NDF}: 6131.2/53$

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: 0.136 ± 0.005 χ^2/NDF : 295.7/9

Right Out: -0.149 ± 0.009 χ^2/NDF : 524.8/18

Left In: 0.169 ± 0.005 χ^2/NDF : 258.9/8

Left: 0.153 ± 0.004 χ^2/NDF : 575.5/18

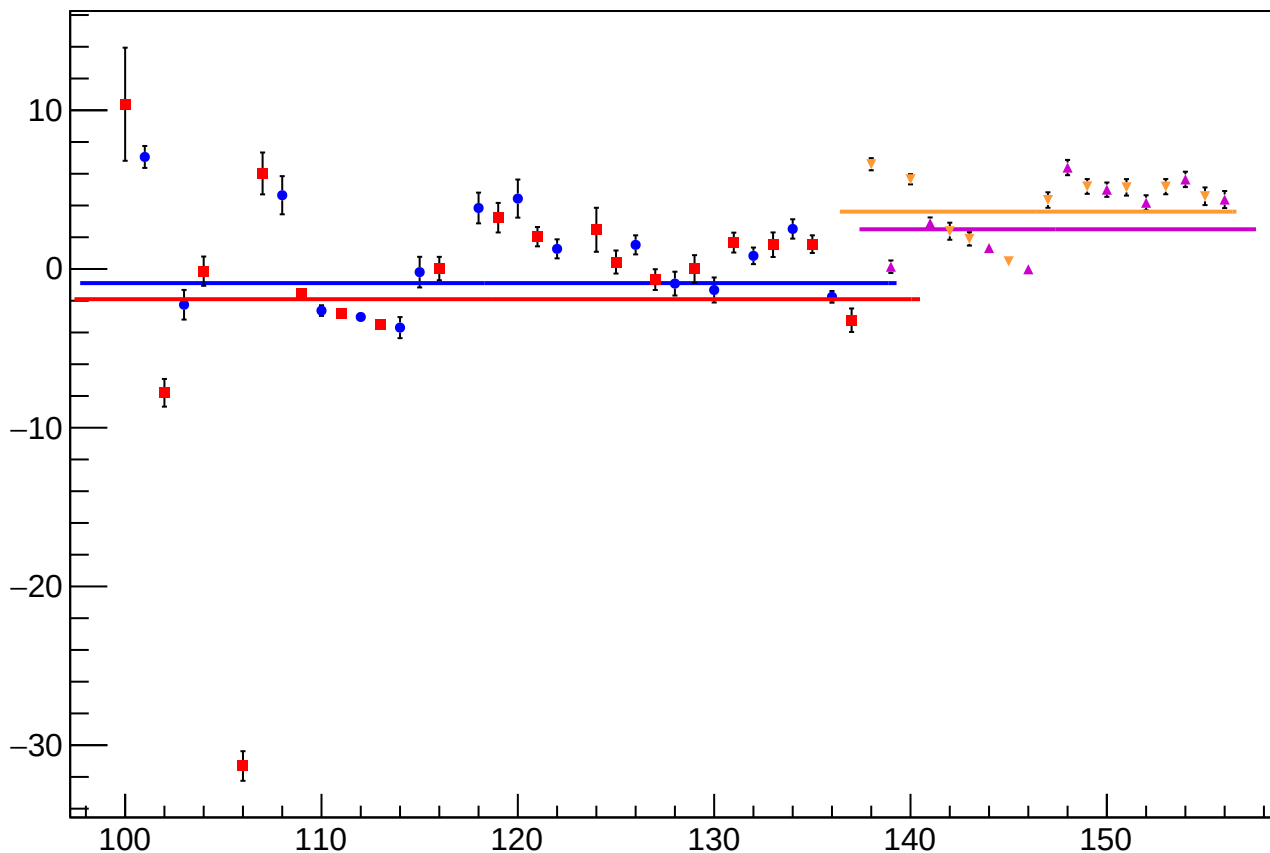
Right: -0.112 ± 0.006 χ^2/NDF : 875.6/34

In: 0.106 ± 0.004 χ^2/NDF : 1199.3/24

Out: 0.068 ± 0.004 χ^2/NDF : 1572.5/28

All: 0.088 ± 0.003 χ^2/NDF : 2809.3/53

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.889 ± 0.137 χ^2/NDF : 380.3/15

Left Out: 3.613 ± 0.127 χ^2/NDF : 323.2/9

Right Out: -1.903 ± 0.128 χ^2/NDF : 1331.8/18

Left In: 2.502 ± 0.129 χ^2/NDF : 288.3/8

Left: 3.068 ± 0.090 χ^2/NDF : 649.2/18

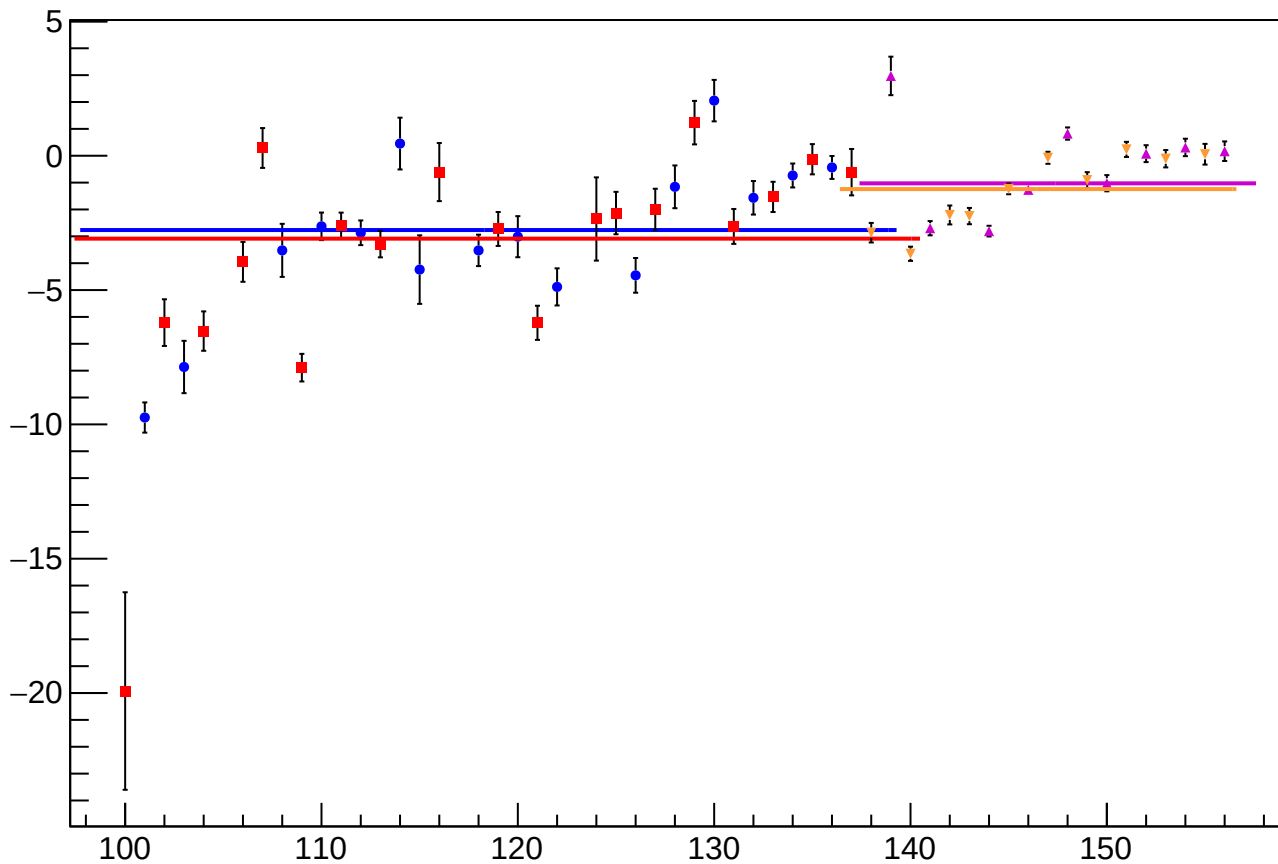
Right: -1.428 ± 0.094 χ^2/NDF : 1741.3/34

In: 0.904 ± 0.094 χ^2/NDF : 994.6/24

Out: 0.894 ± 0.090 χ^2/NDF : 2591.1/28

All: 0.899 ± 0.065 χ^2/NDF : 3585.7/53

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: -1.241 ± 0.089 $\chi^2/\text{NDF}: 200.6/9$

Right Out: -3.086 ± 0.158 $\chi^2/\text{NDF}: 272.5/18$

Left In: -1.028 ± 0.088 $\chi^2/\text{NDF}: 258.4/8$

Left: -1.133 ± 0.062 $\chi^2/\text{NDF}: 462.0/18$

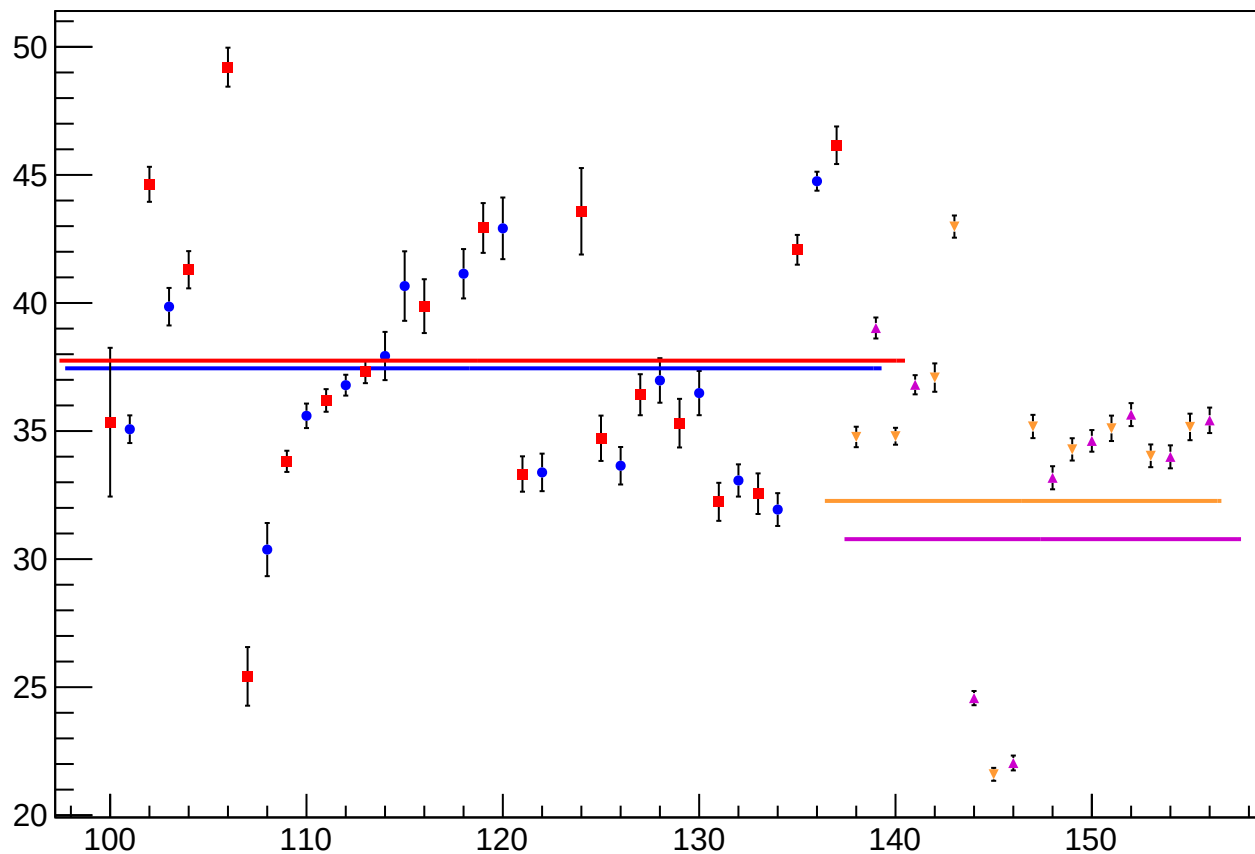
Right: -2.925 ± 0.111 $\chi^2/\text{NDF}: 584.6/34$

In: -1.443 ± 0.076 $\chi^2/\text{NDF}: 662.7/24$

Out: -1.688 ± 0.078 $\chi^2/\text{NDF}: 577.0/28$

All: -1.564 ± 0.054 $\chi^2/\text{NDF}: 1244.7/53$

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: 32.272 $\pm$ 0.126 χ^2 /NDF: 2714.7/9

Right Out: 37.749 $\pm$ 0.159 χ^2 /NDF: 963.6/18

Left In: 30.779 $\pm$ 0.127 χ^2 /NDF: 2437.2/8

Left: 31.527 $\pm$ 0.089 χ^2 /NDF: 5221.6/18

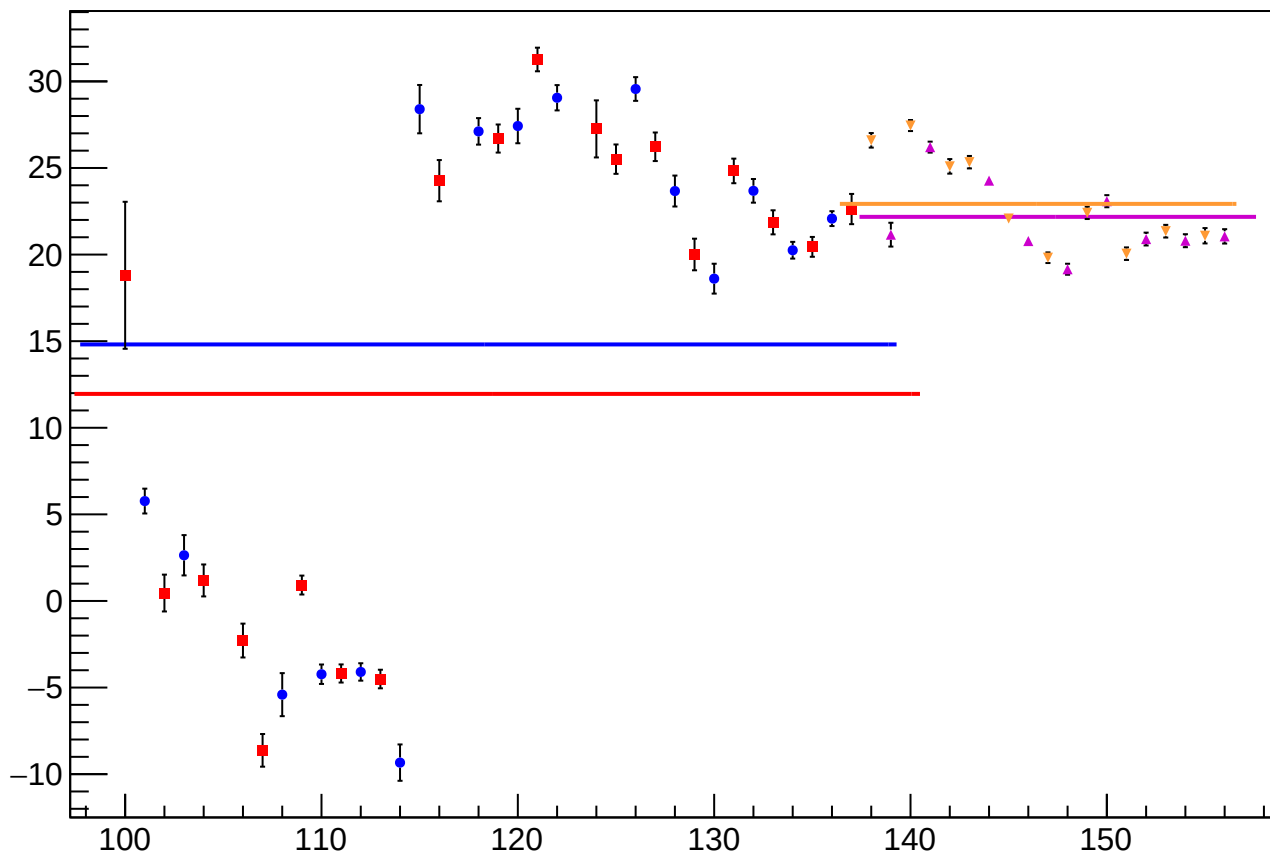
Right: 37.600 $\pm$ 0.113 χ^2 /NDF: 1672.3/34

In: 33.332 $\pm$ 0.099 χ^2 /NDF: 4207.2/24

Out: 34.383 $\pm$ 0.099 χ^2 /NDF: 4403.7/28

All: 33.860 $\pm$ 0.070 χ^2 /NDF: 8667.0/53

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: 22.927 $\pm$ 0.107 χ^2 /NDF: 565.3/9

Right Out: 11.955 $\pm$ 0.177 χ^2 /NDF: 6105.5/18

Left In: 22.178 $\pm$ 0.106 χ^2 /NDF: 414.0/8

Left: 22.547 $\pm$ 0.075 χ^2 /NDF: 1004.0/18

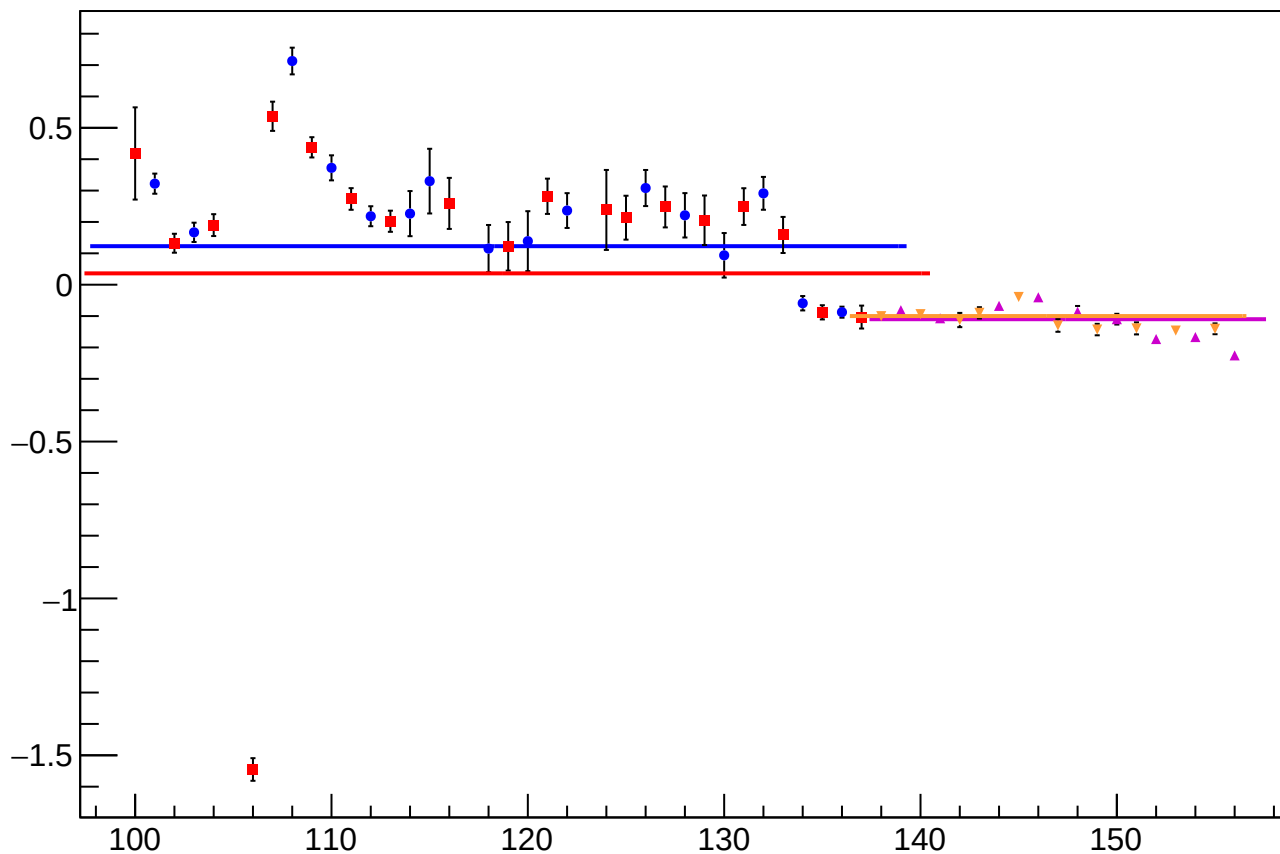
Right: 13.408 $\pm$ 0.124 χ^2 /NDF: 11924.5/34

In: 20.182 $\pm$ 0.091 χ^2 /NDF: 7408.6/24

Out: 19.966 $\pm$ 0.092 χ^2 /NDF: 9482.1/28

All: 20.076 $\pm$ 0.064 χ^2 /NDF: 16893.6/53

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 ± 0.005 $\chi^2/\text{NDF}: 64.3/9$

Right Out: 0.036 ± 0.010 $\chi^2/\text{NDF}: 2414.7/18$

Left In: -0.110 ± 0.005 $\chi^2/\text{NDF}: 130.8/8$

Left: -0.105 ± 0.004 $\chi^2/\text{NDF}: 197.1/18$

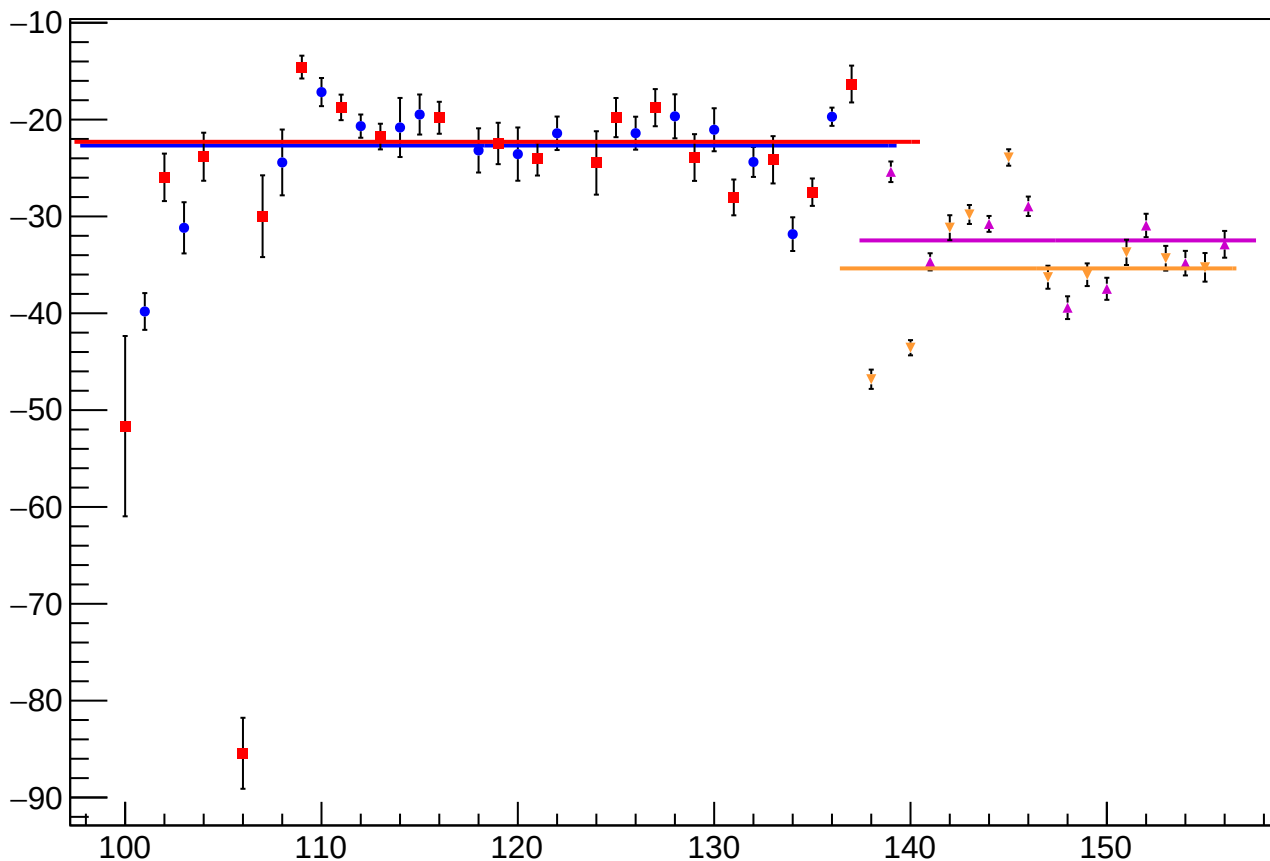
Right: 0.081 ± 0.007 $\chi^2/\text{NDF}: 2975.5/34$

In: -0.059 ± 0.004 $\chi^2/\text{NDF}: 1129.3/24$

Out: -0.071 ± 0.004 $\chi^2/\text{NDF}: 2632.1/28$

All: -0.065 ± 0.003 $\chi^2/\text{NDF}: 3765.1/53$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.675 ± 0.435 $\chi^2/\text{NDF}: 154.4/15$

Left Out: -35.368 ± 0.338 $\chi^2/\text{NDF}: 468.5/9$

Right Out: -22.295 ± 0.435 $\chi^2/\text{NDF}: 405.5/18$

Left In: -32.477 ± 0.354 $\chi^2/\text{NDF}: 126.7/8$

Left: -33.991 ± 0.245 $\chi^2/\text{NDF}: 630.0/18$

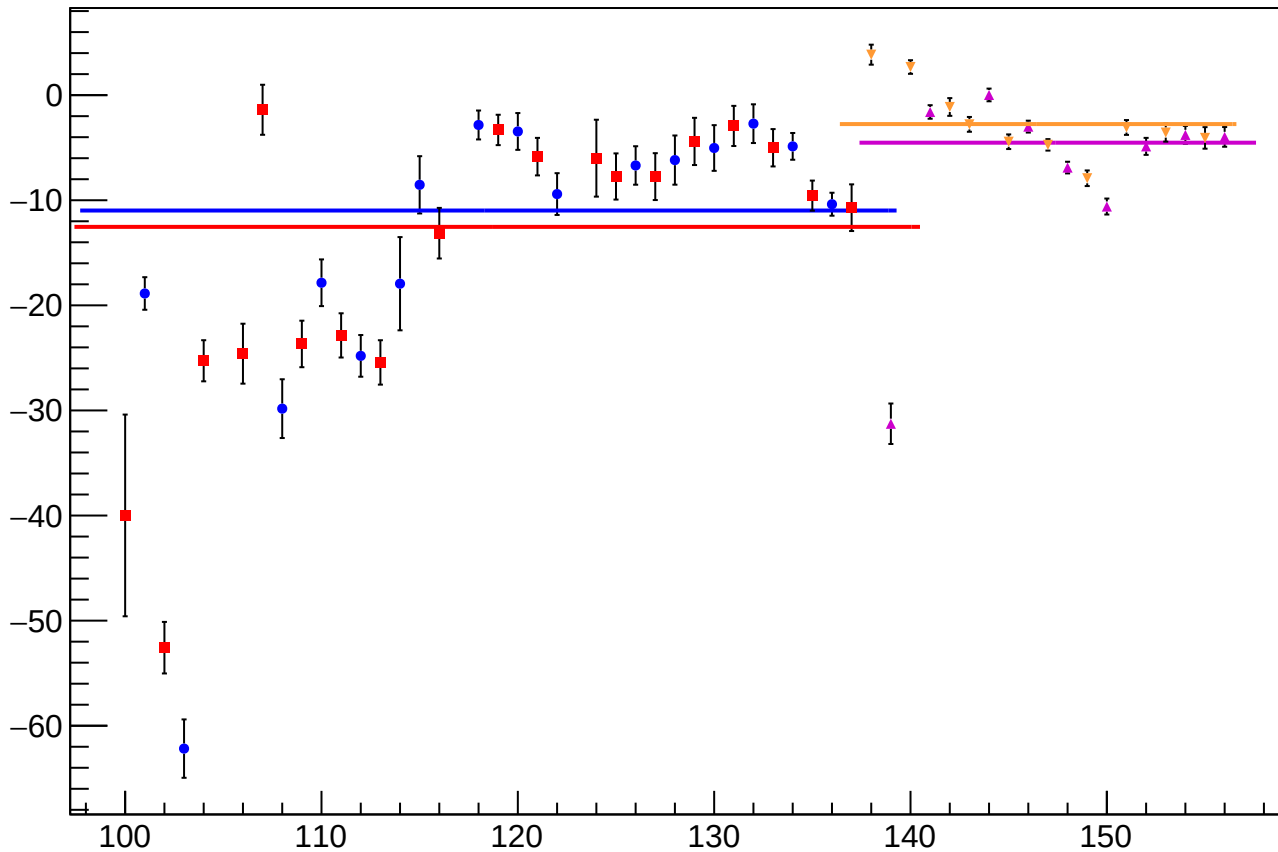
Right: -22.485 ± 0.307 $\chi^2/\text{NDF}: 560.3/34$

In: -28.561 ± 0.275 $\chi^2/\text{NDF}: 586.7/24$

Out: -30.447 ± 0.267 $\chi^2/\text{NDF}: 1436.7/28$

All: -29.531 ± 0.191 $\chi^2/\text{NDF}: 2047.6/53$

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: -2.752 ± 0.233 χ^2/NDF : 191.7/9

Right Out: -12.533 ± 0.481 χ^2/NDF : 572.3/18

Left In: -4.524 ± 0.239 χ^2/NDF : 360.7/8

Left: -3.617 ± 0.167 χ^2/NDF : 580.6/18

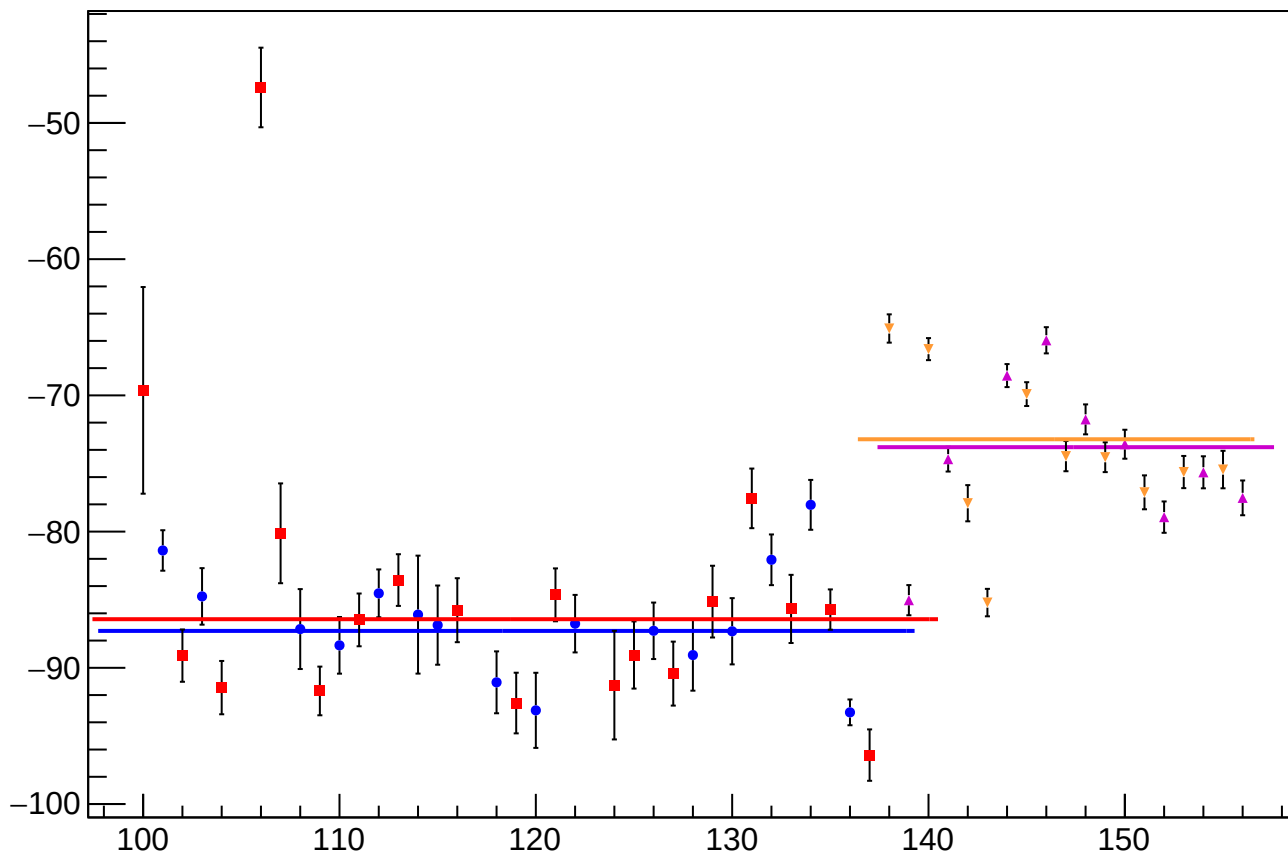
Right: -11.710 ± 0.330 χ^2/NDF : 1165.1/34

In: -5.924 ± 0.211 χ^2/NDF : 1106.6/24

Out: -4.609 ± 0.210 χ^2/NDF : 1098.9/28

All: -5.262 ± 0.149 χ^2/NDF : 2225.0/53

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: -73.221 ± 0.336 χ^2/NDF : 315.7/9

Right Out: -86.431 ± 0.506 χ^2/NDF : 264.8/18

Left In: -73.802 ± 0.347 χ^2/NDF : 243.4/8

Left: -73.503 ± 0.241 χ^2/NDF : 560.6/18

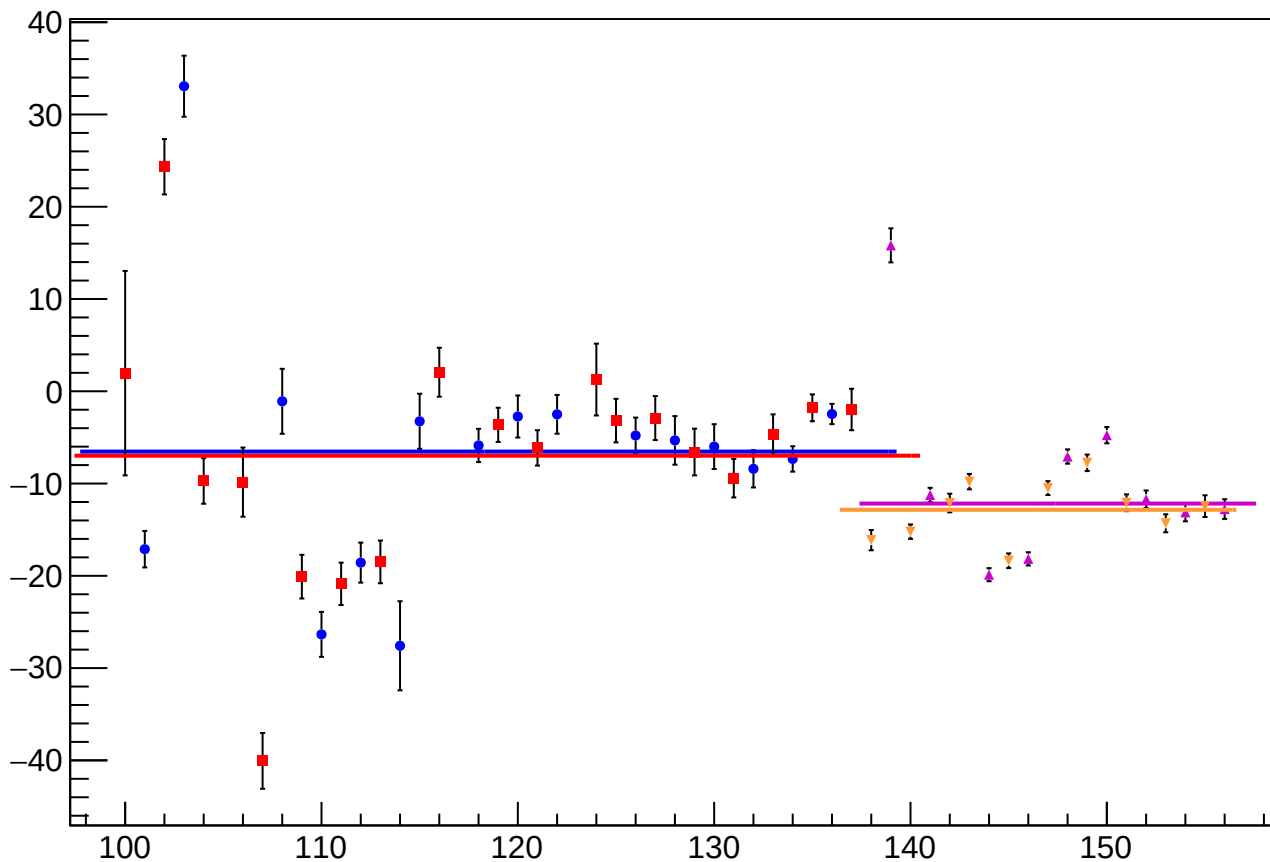
Right: -86.883 ± 0.348 χ^2/NDF : 367.6/34

In: -78.423 ± 0.281 χ^2/NDF : 862.5/24

Out: -77.266 ± 0.280 χ^2/NDF : 1053.5/28

All: -77.842 ± 0.198 χ^2/NDF : 1924.5/53

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: -12.846 ± 0.283 χ^2/NDF : 125.2/9

Right Out: -6.979 ± 0.542 χ^2/NDF : 368.3/18

Left In: -12.169 ± 0.290 χ^2/NDF : 534.2/8

Left: -12.515 ± 0.203 χ^2/NDF : 662.1/18

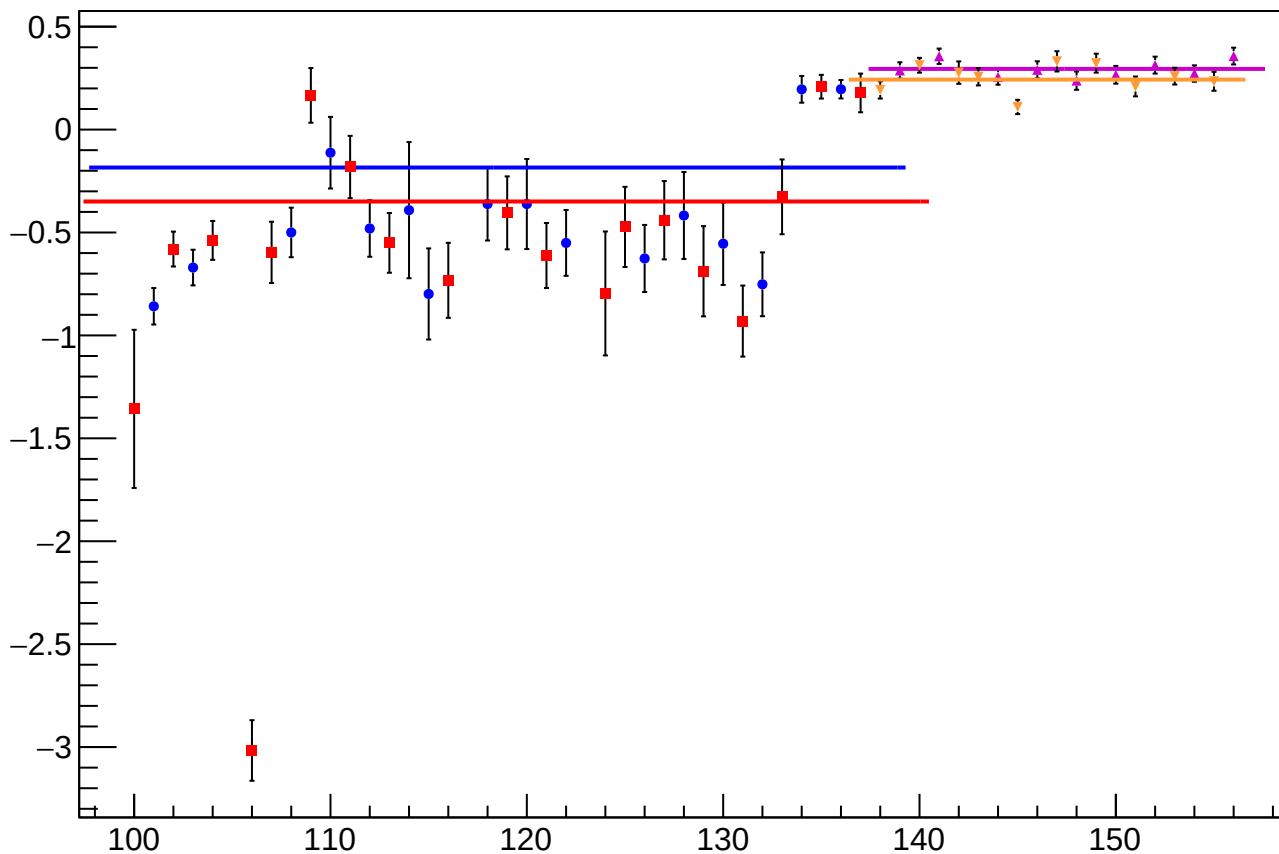
Right: -6.743 ± 0.370 χ^2/NDF : 682.6/34

In: -10.783 ± 0.252 χ^2/NDF : 940.9/24

Out: -11.585 ± 0.251 χ^2/NDF : 585.6/28

All: -11.185 ± 0.178 χ^2/NDF : 1531.6/53

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: 0.243 ± 0.014 χ^2/NDF : 27.3/9

Right Out: -0.349 ± 0.029 χ^2/NDF : 516.5/18

Left In: 0.295 ± 0.013 χ^2/NDF : 8.8/8

Left: 0.269 ± 0.010 χ^2/NDF : 43.5/18

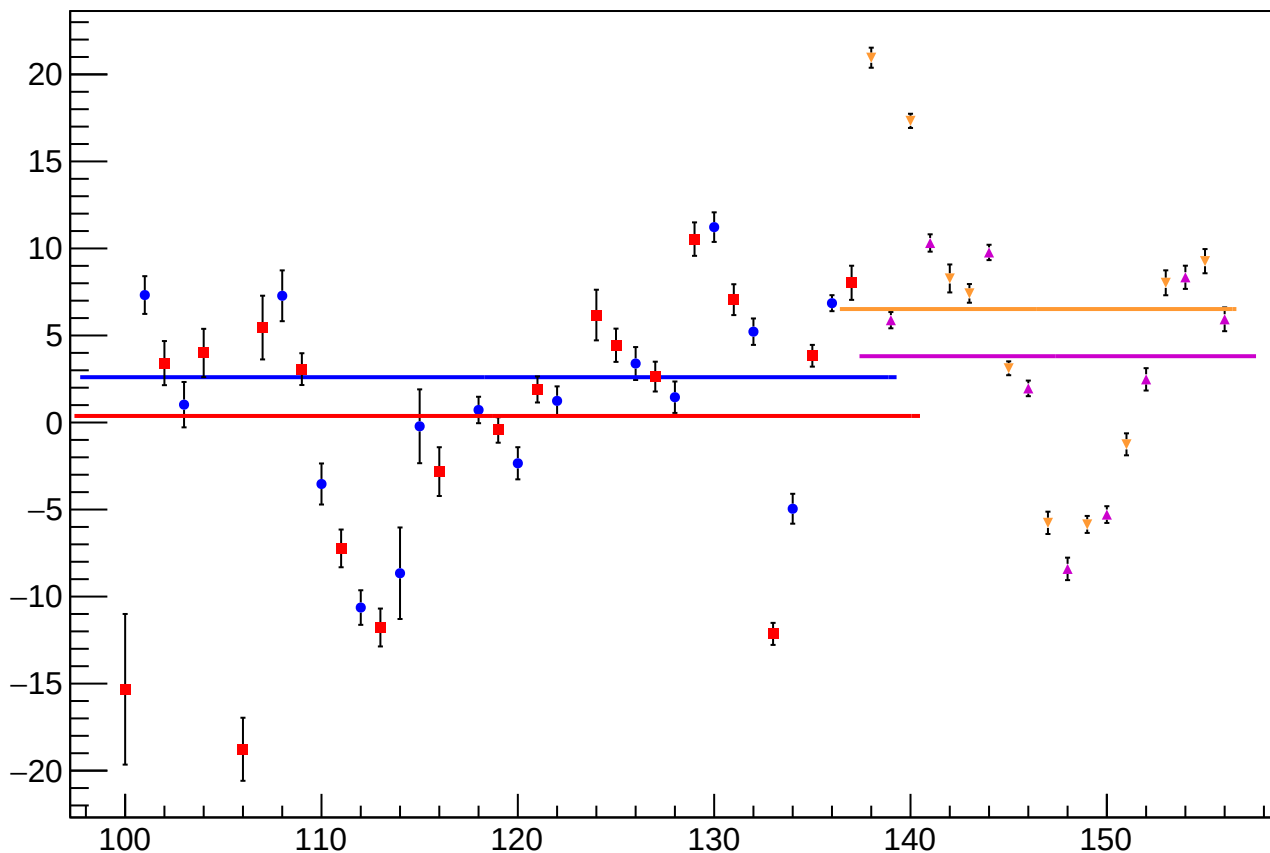
Right: -0.259 ± 0.020 χ^2/NDF : 781.1/34

In: 0.198 ± 0.012 χ^2/NDF : 511.7/24

Out: 0.139 ± 0.012 χ^2/NDF : 880.2/28

All: 0.169 ± 0.009 χ^2/NDF : 1403.6/53

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: 6.519 ± 0.173 $\chi^2/\text{NDF}: 2589.6/9$

Right Out: 0.377 ± 0.222 $\chi^2/\text{NDF}: 1030.9/18$

Left In: 3.810 ± 0.176 $\chi^2/\text{NDF}: 1166.5/8$

Left: 5.189 ± 0.123 $\chi^2/\text{NDF}: 3876.8/18$

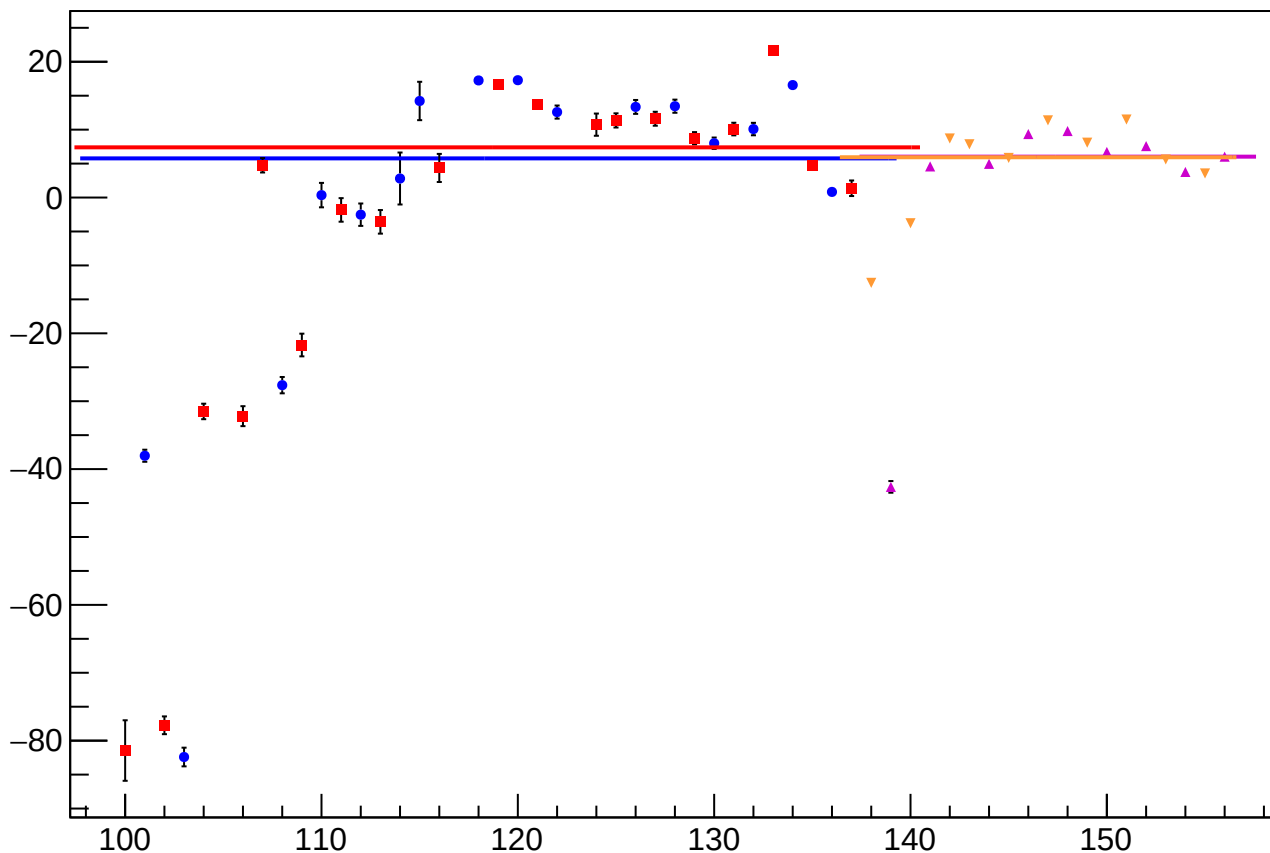
Right: 1.481 ± 0.158 $\chi^2/\text{NDF}: 1653.8/34$

In: 3.350 ± 0.138 $\chi^2/\text{NDF}: 1757.6/24$

Out: 4.204 ± 0.136 $\chi^2/\text{NDF}: 4096.5/28$

All: 3.783 ± 0.097 $\chi^2/\text{NDF}: 5873.4/53$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.768 $\pm$ 0.210 χ^2 /NDF: 8933.8/15

Left Out: 5.933 $\pm$ 0.121 χ^2 /NDF: 2517.9/9

Right Out: 7.393 $\pm$ 0.209 χ^2 /NDF: 8390.6/18

Left In: 6.022 $\pm$ 0.123 χ^2 /NDF: 3572.0/8

Left: 5.977 $\pm$ 0.086 χ^2 /NDF: 6090.2/18

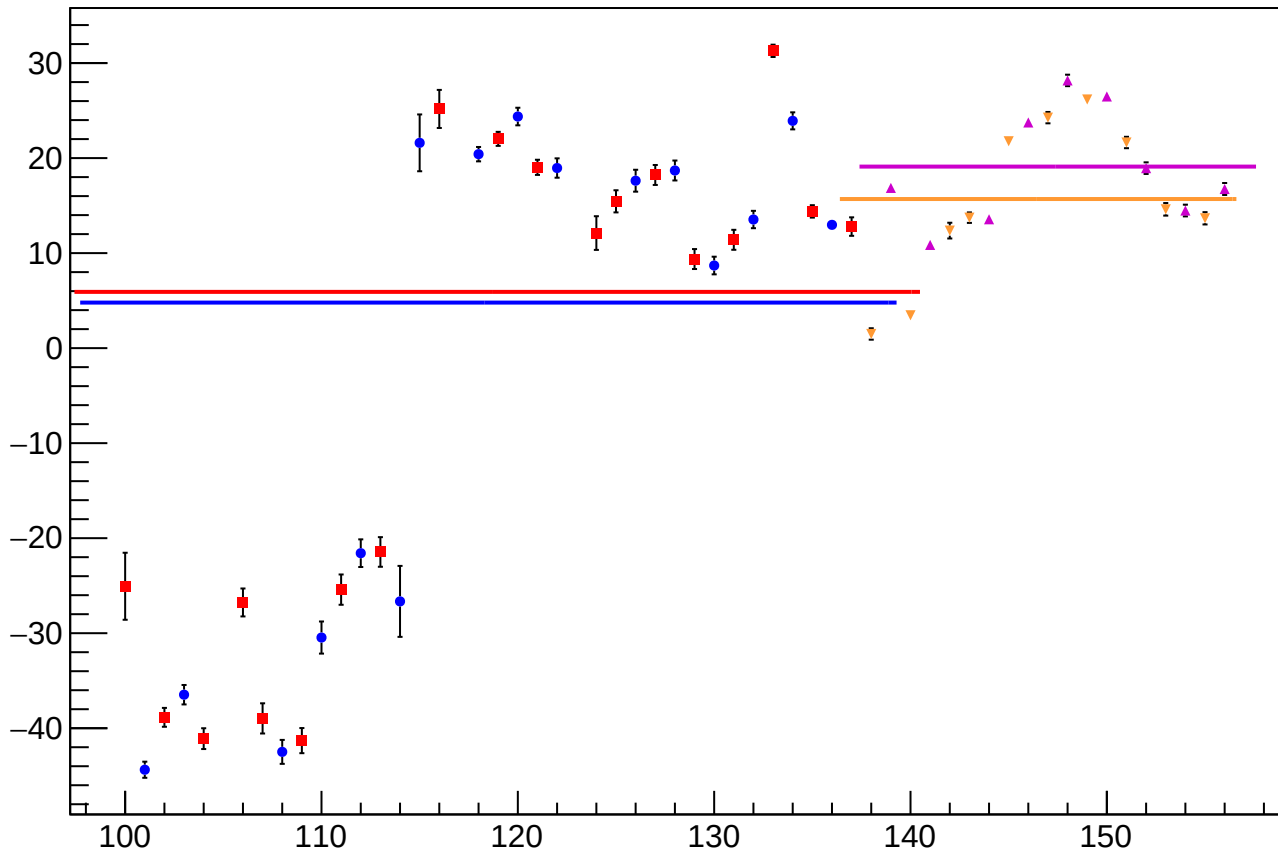
Right: 6.585 $\pm$ 0.148 χ^2 /NDF: 17354.6/34

In: 5.957 $\pm$ 0.106 χ^2 /NDF: 12507.0/24

Out: 6.299 $\pm$ 0.104 χ^2 /NDF: 10945.2/28

All: 6.131 $\pm$ 0.074 χ^2 /NDF: 23457.4/53

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.794 $\pm$ 0.237 χ^2 /NDF: 9496.9/15

Left Out: 15.693 $\pm$ 0.171 χ^2 /NDF:2498.3/9

Right Out: 5.921 $\pm$ 0.240 χ^2 /NDF: 10059.4/18

Left In: 19.105 $\pm$ 0.172 χ^2 /NDF:1110.8/8

Left: 17.389 $\pm$ 0.121 χ^2 /NDF: 3806.9/18

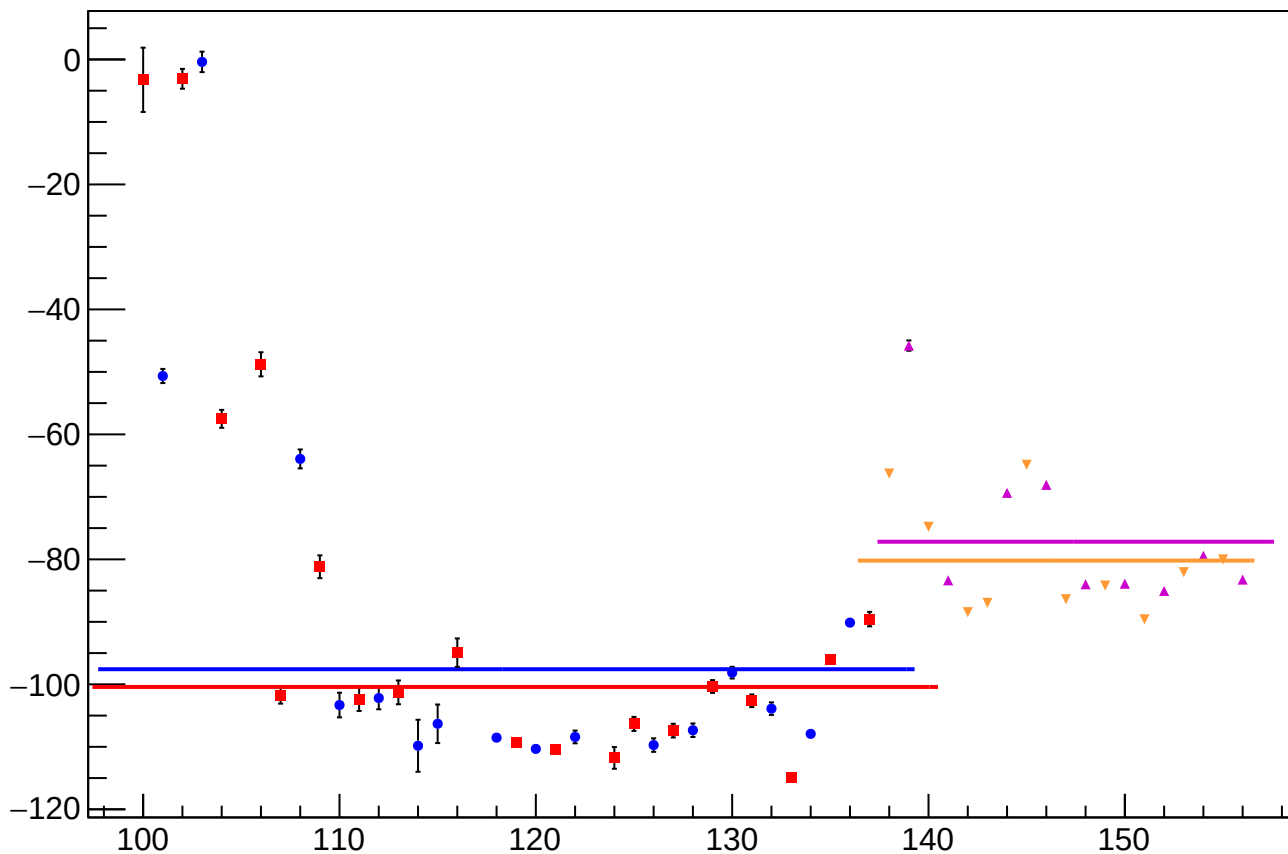
Right: 5.352 $\pm$ 0.169 χ^2 /NDF: 19567.4/34

In: 14.177 $\pm$ 0.139 χ^2 /NDF:12990.2/24

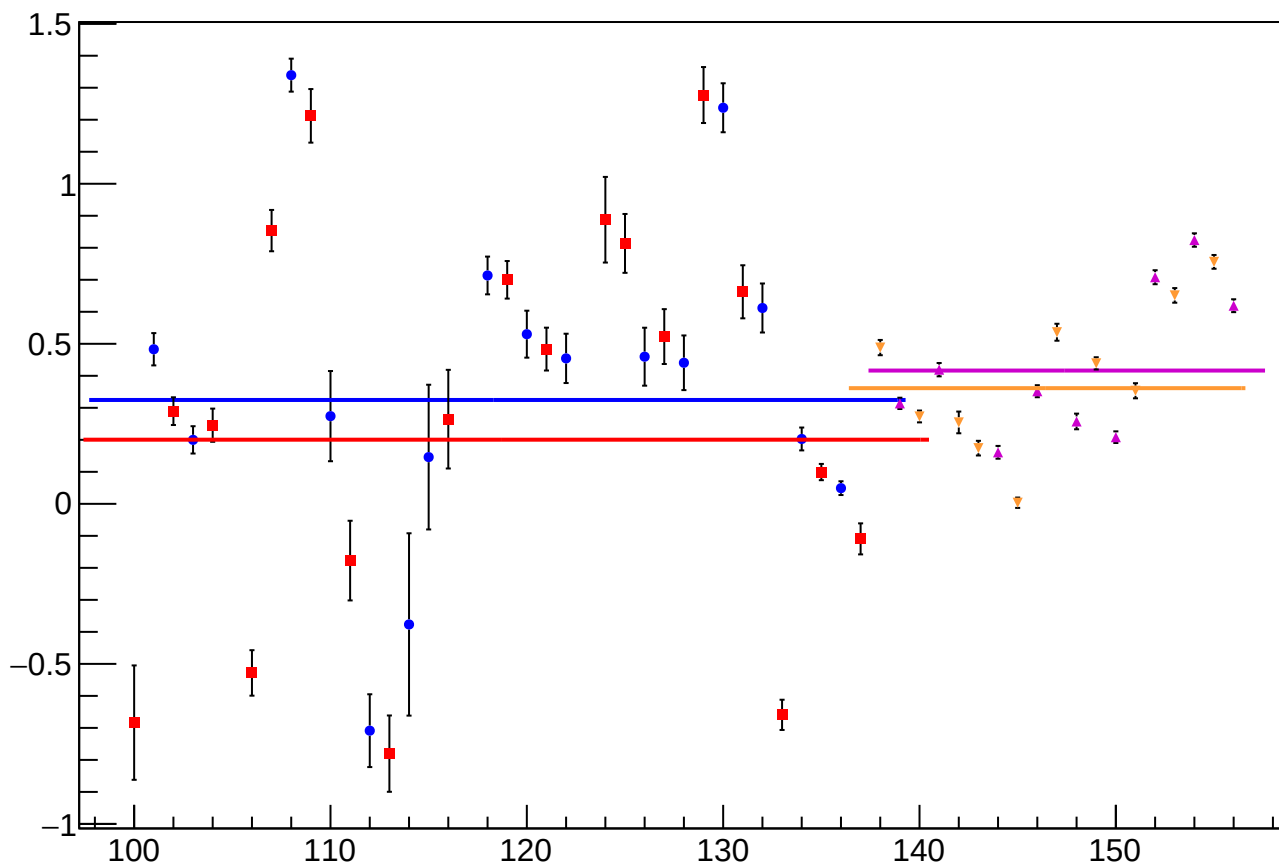
Out: 12.399 $\pm$ 0.139 χ^2 /NDF:13657.7/28

All: 13.288 $\pm$ 0.098 χ^2 /NDF: 26729.3/53

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.013 χ^2 /NDF: 886.5/15

Left Out: 0.361 $\pm$ 0.007 χ^2 /NDF:1173.7/9

Right Out: 0.200 $\pm$ 0.014 χ^2 /NDF: 1206.3/18

Left In: 0.416 $\pm$ 0.007 χ^2 /NDF:1039.2/8

Left: 0.390 $\pm$ 0.005 χ^2 /NDF: 2245.9/18

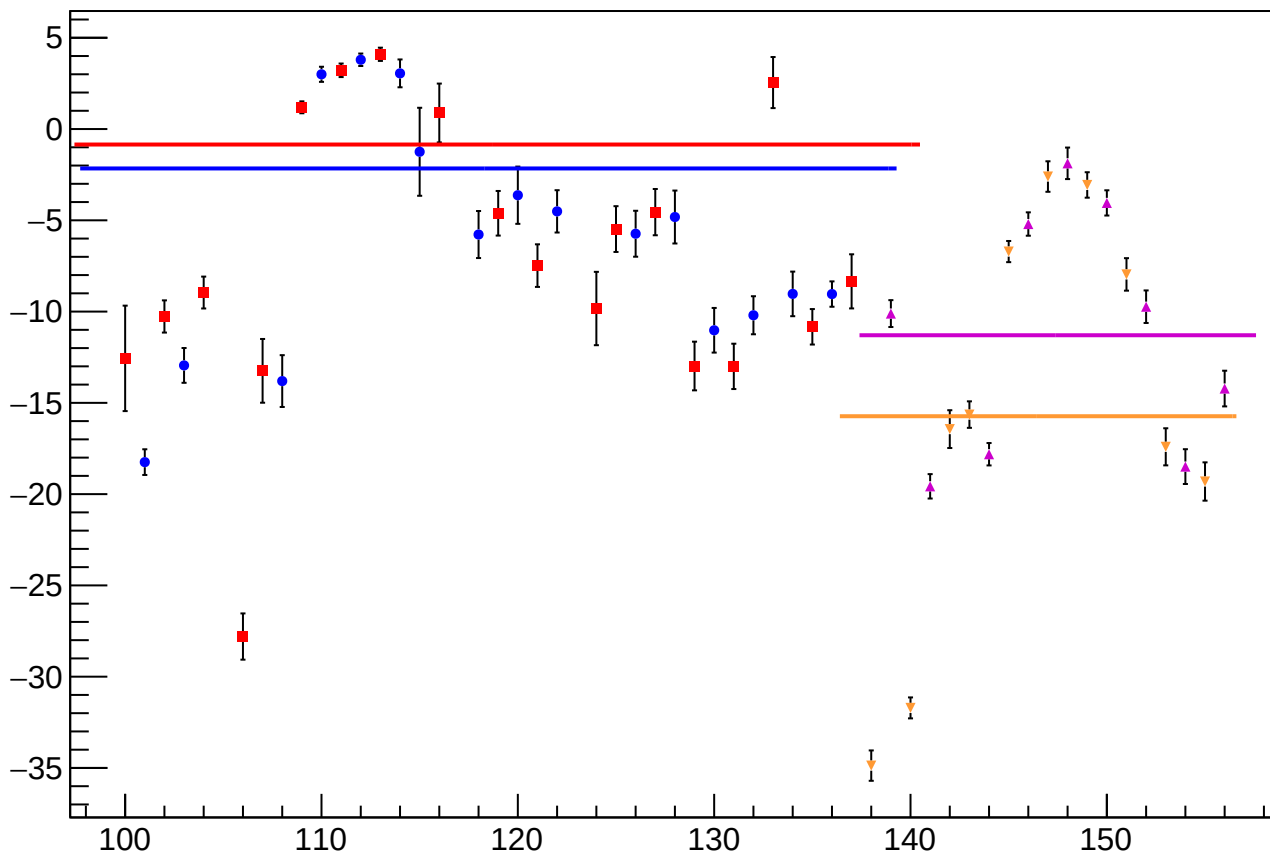
Right: 0.265 $\pm$ 0.010 χ^2 /NDF: 2134.6/34

In: 0.398 $\pm$ 0.006 χ^2 /NDF:1963.9/24

Out: 0.330 $\pm$ 0.006 χ^2 /NDF:2488.6/28

All: 0.365 $\pm$ 0.004 χ^2 /NDF: 4515.7/53

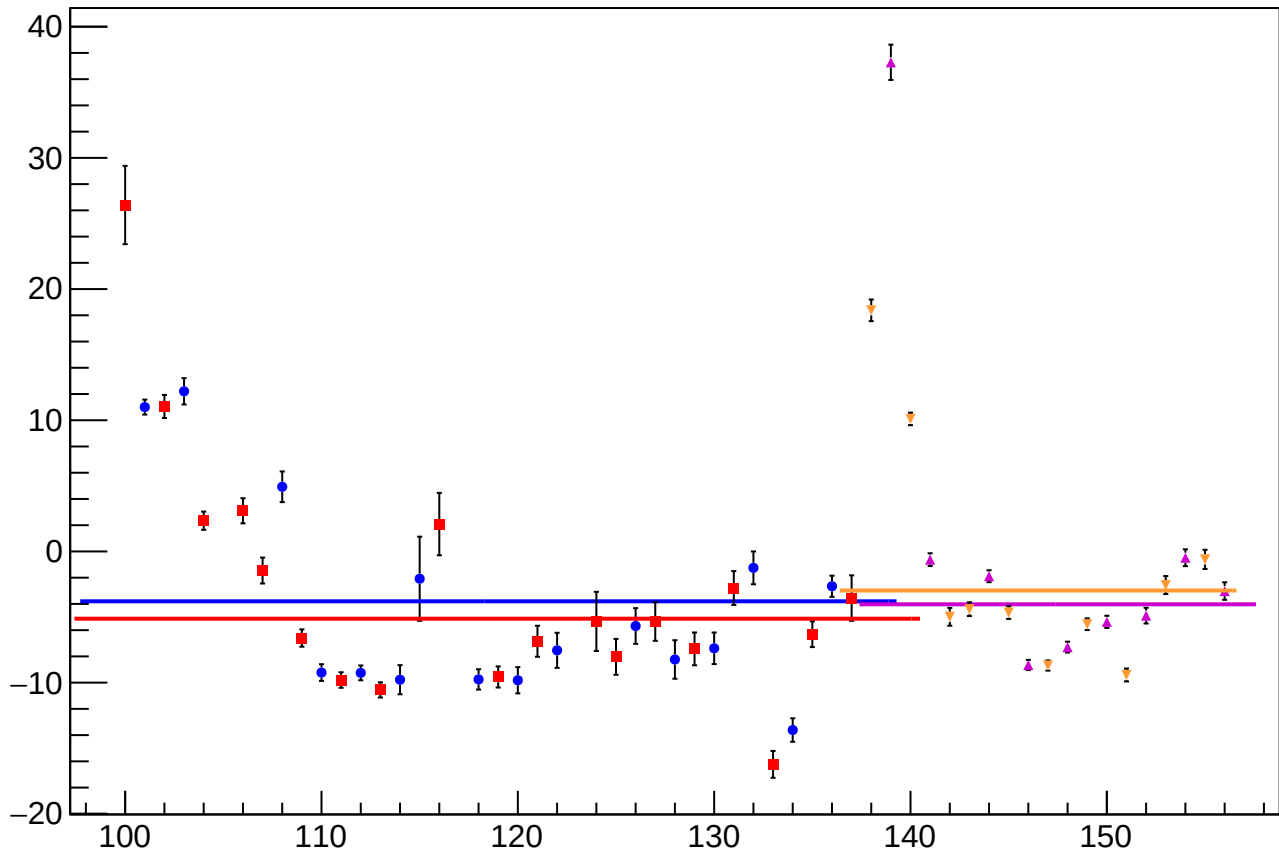
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.159 ± 0.192 χ^2/NDF : 1491.0/15
 Left Out: -15.732 ± 0.243 χ^2/NDF : 2213.6/9
 Right Out: -0.848 ± 0.170 χ^2/NDF : 1465.4/18
 Left In: -11.296 ± 0.250 χ^2/NDF : 657.4/8

Left: -13.574 ± 0.174 χ^2/NDF : 3033.0/18
 Right: -1.426 ± 0.127 χ^2/NDF : 2982.5/34
 In: -5.552 ± 0.152 χ^2/NDF : 2989.3/24
 Out: -5.749 ± 0.140 χ^2/NDF : 6191.5/28
 All: -5.659 ± 0.103 χ^2/NDF : 9181.7/53

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.800 ± 0.226 χ^2/NDF : 1425.5/15

Left Out: -2.977 ± 0.167 χ^2/NDF : 1879.1/9

Right Out: -5.126 ± 0.219 χ^2/NDF : 980.6/18

Left In: -4.030 ± 0.171 χ^2/NDF : 1260.4/8

Left: -3.492 ± 0.120 χ^2/NDF : 3158.9/18

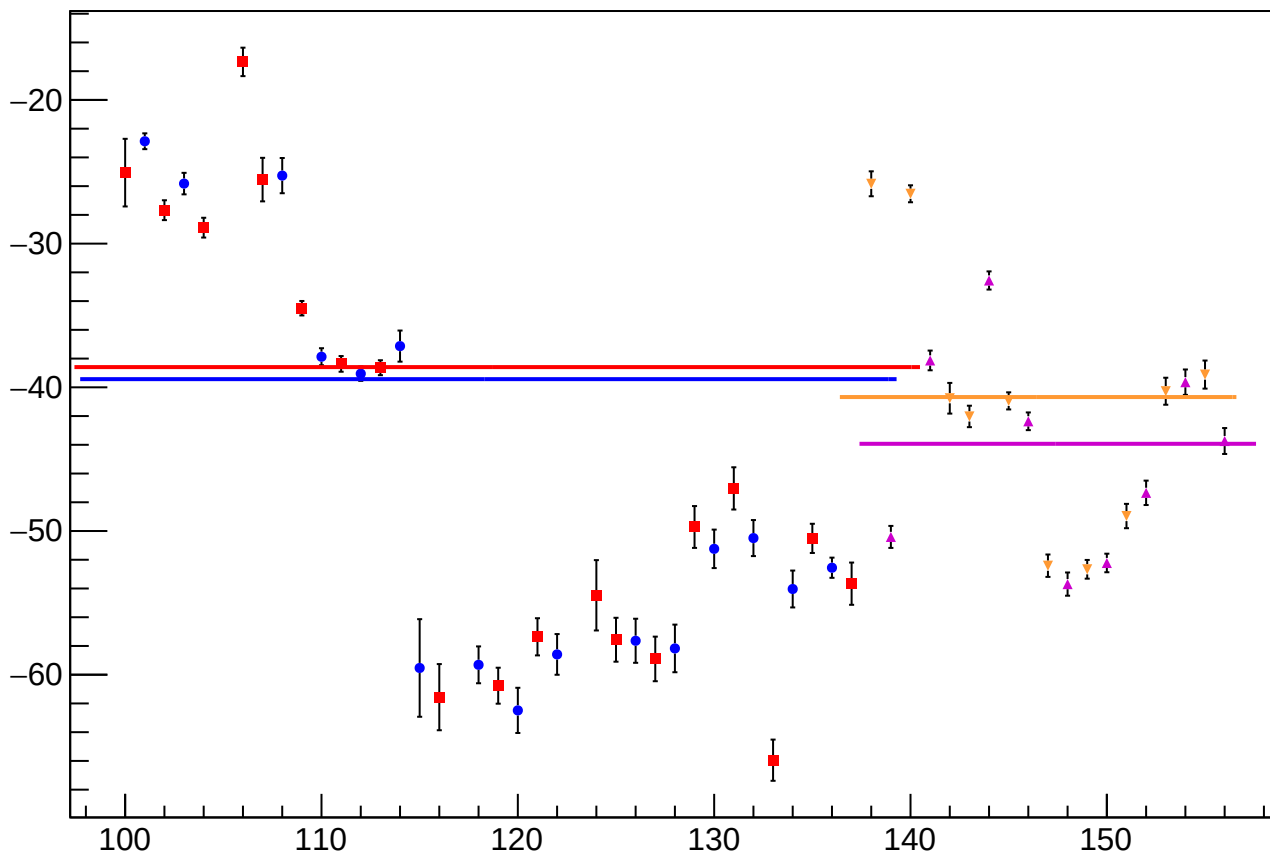
Right: -4.484 ± 0.157 χ^2/NDF : 2423.8/34

In: -3.946 ± 0.136 χ^2/NDF : 2686.6/24

Out: -3.770 ± 0.133 χ^2/NDF : 2920.6/28

All: -3.856 ± 0.095 χ^2/NDF : 5608.0/53

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.431 $\pm$ 0.225 χ^2/NDF : 2958.1/15

Left Out: -40.677 $\pm$ 0.241 χ^2/NDF : 1533.2/9

Right Out: -38.593 $\pm$ 0.213 χ^2/NDF : 2772.1/18

Left In: -43.931 $\pm$ 0.244 χ^2/NDF : 823.4/8

Left: -42.282 $\pm$ 0.171 χ^2/NDF : 2446.7/18

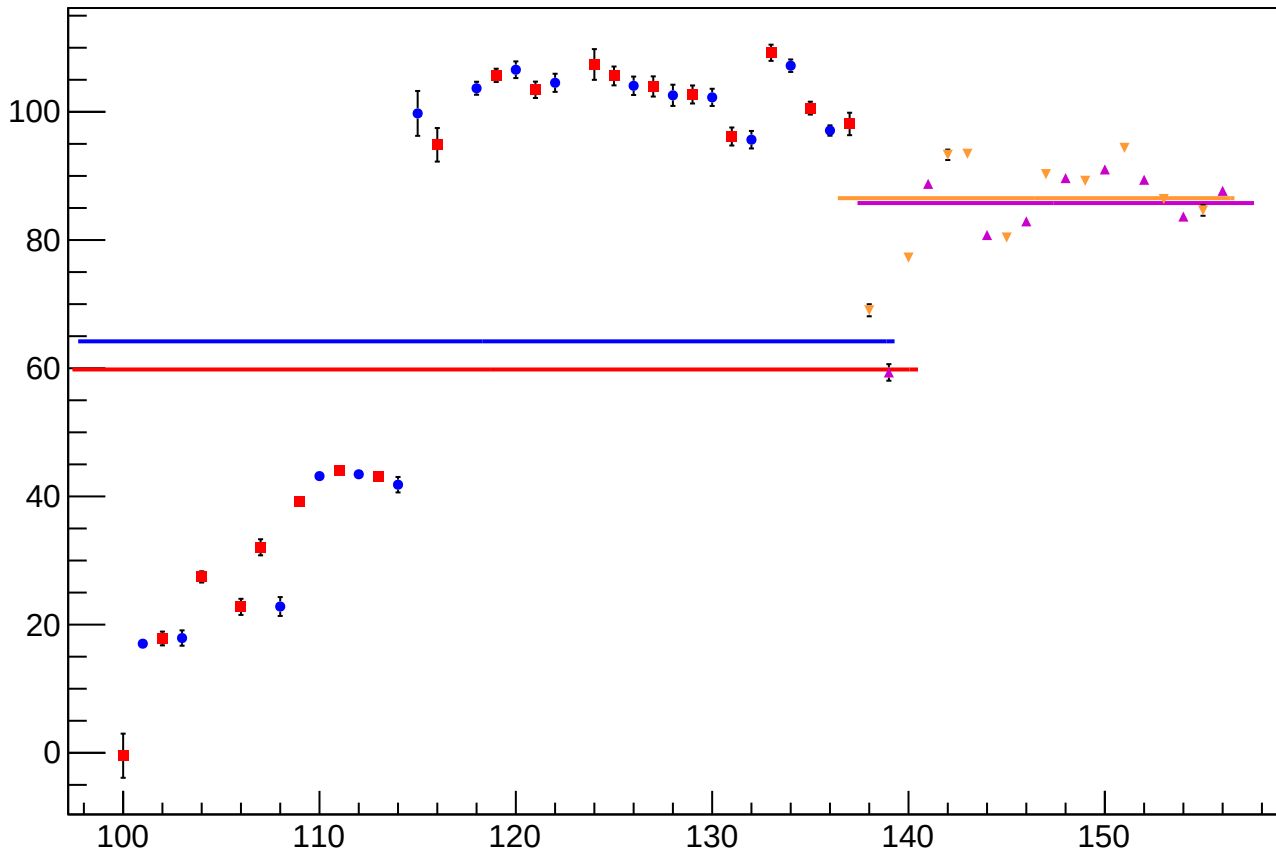
Right: -38.987 $\pm$ 0.155 χ^2/NDF : 5737.6/34

In: -41.504 $\pm$ 0.166 χ^2/NDF : 3964.9/24

Out: -39.506 $\pm$ 0.159 χ^2/NDF : 4347.4/28

All: -40.466 $\pm$ 0.115 χ^2/NDF : 8387.9/53

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 64.196 +/- 0.258 χ^2/NDF : 18596.4/15

Left Out: 86.531 +/- 0.203 χ^2/NDF : 1159.1/9

Right Out: 59.805 +/- 0.249 χ^2/NDF : 17431.2/18

Left In: 85.770 +/- 0.206 χ^2/NDF : 750.9/8

Left: 86.156 +/- 0.145 χ^2/NDF : 1916.9/18

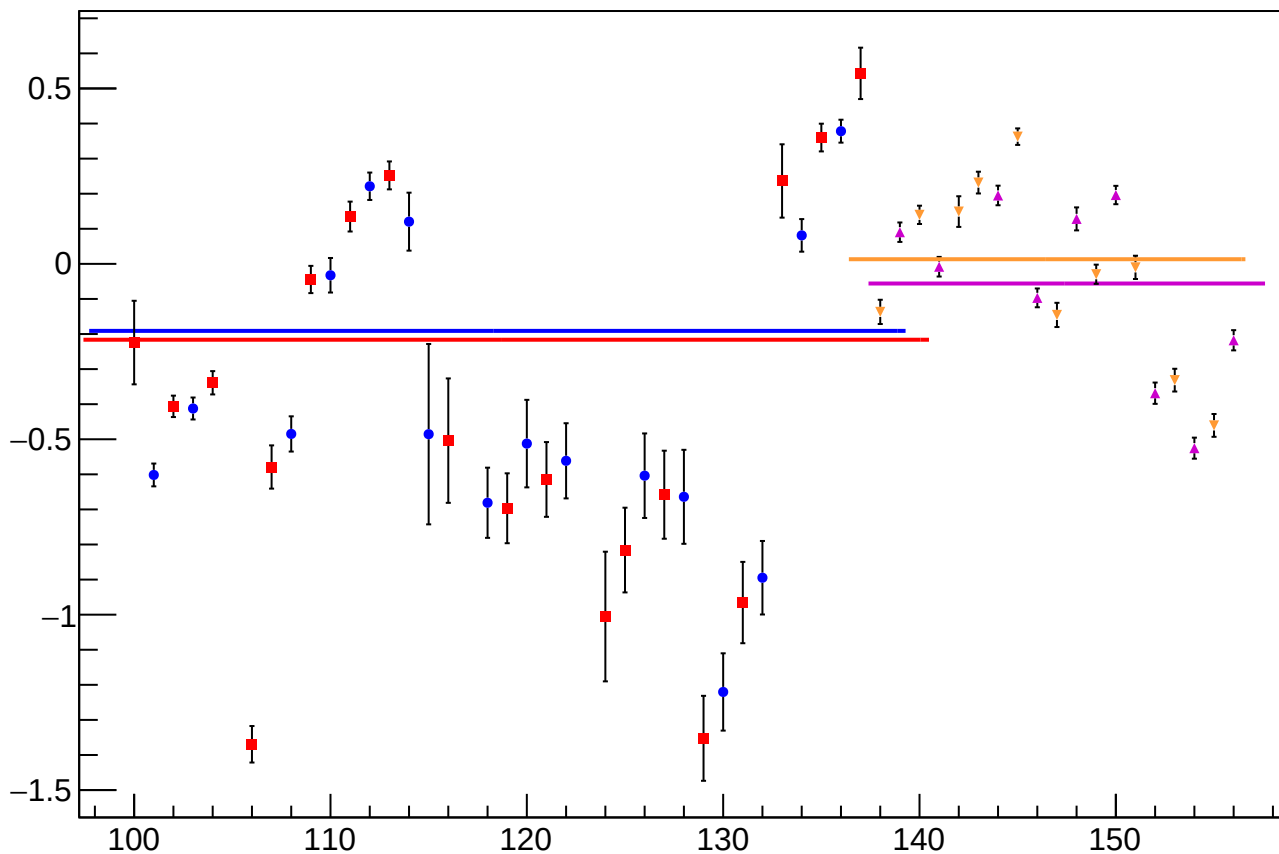
Right: 61.924 +/- 0.179 χ^2/NDF : 36178.0/34

In: 77.345 +/- 0.161 χ^2/NDF : 23625.8/24

Out: 75.834 +/- 0.157 χ^2/NDF : 25514.1/28

All: 76.573 +/- 0.113 χ^2/NDF : 49185.0/53

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: 0.013 ± 0.010 χ^2/NDF : 671.1/9

Right Out: -0.216 ± 0.013 χ^2/NDF : 1368.1/18

Left In: -0.056 ± 0.010 χ^2/NDF : 621.1/8

Left: -0.022 ± 0.007 χ^2/NDF : 1318.1/18

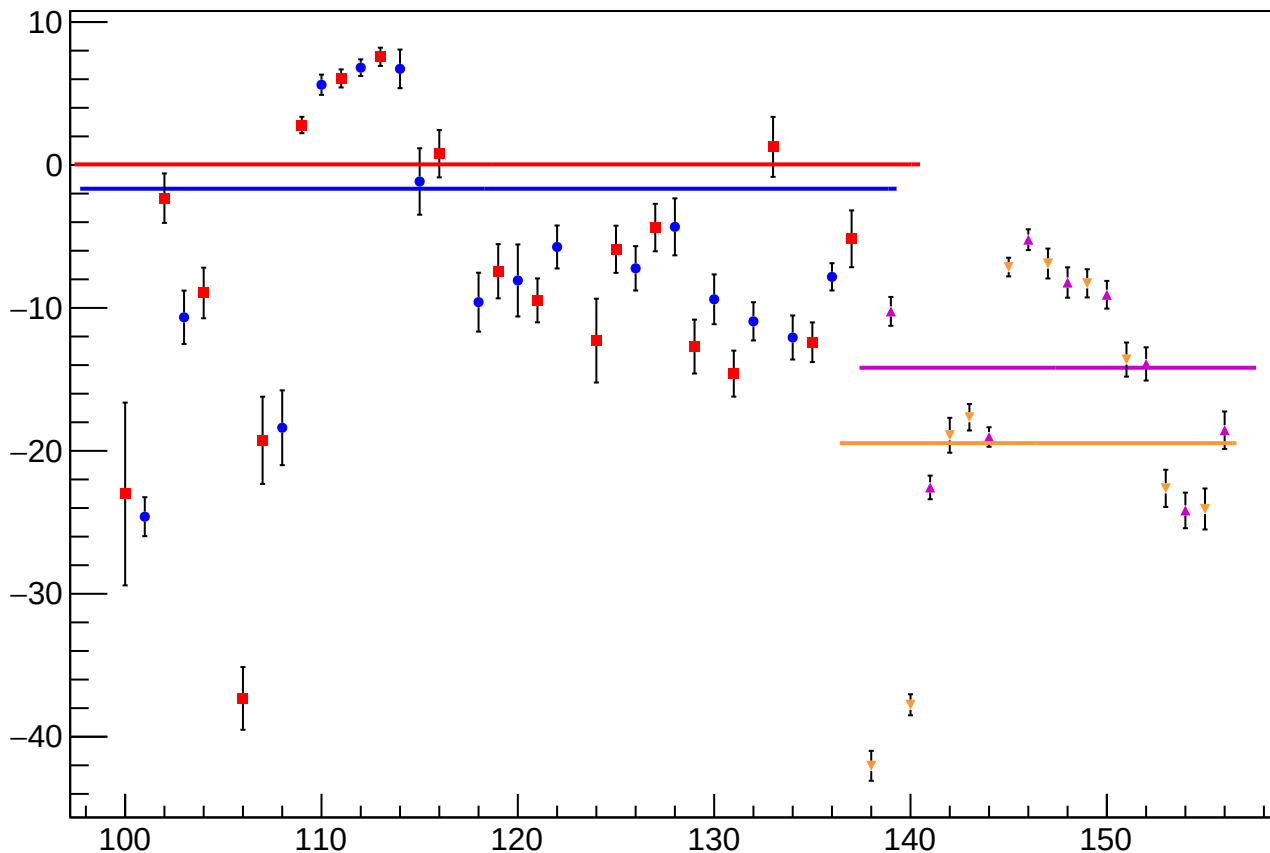
Right: -0.204 ± 0.009 χ^2/NDF : 2288.3/34

In: -0.101 ± 0.008 χ^2/NDF : 1606.7/24

Out: -0.069 ± 0.008 χ^2/NDF : 2240.6/28

All: -0.085 ± 0.005 χ^2/NDF : 3855.8/53

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.661 ± 0.308 χ^2/NDF : 900.3/15

Left Out: -19.459 ± 0.306 χ^2/NDF : 1755.2/9

Right Out: 0.042 ± 0.282 χ^2/NDF : 931.1/18

Left In: -14.184 ± 0.310 χ^2/NDF : 454.8/8

Left: -16.855 ± 0.218 χ^2/NDF : 2356.5/18

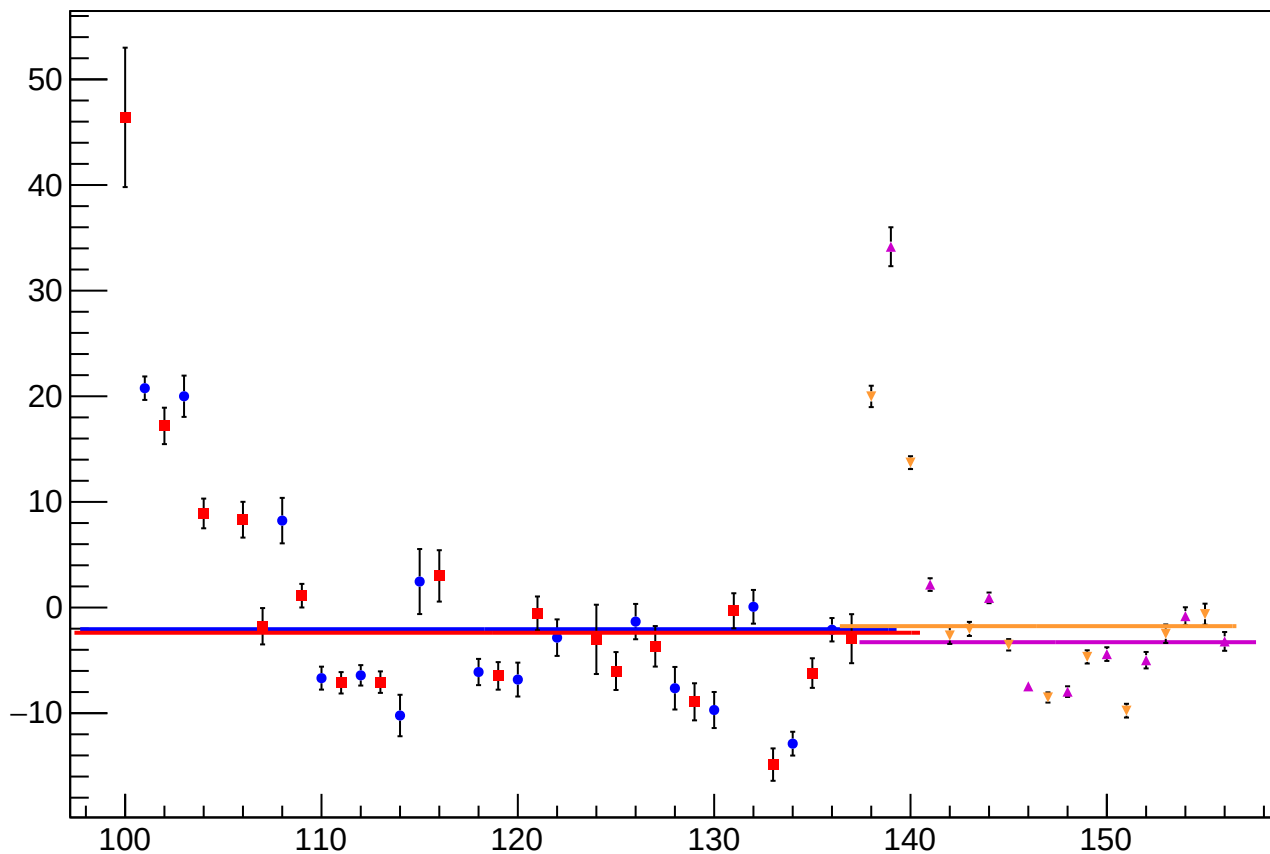
Right: -0.734 ± 0.208 χ^2/NDF : 1848.1/34

In: -7.881 ± 0.219 χ^2/NDF : 2175.9/24

Out: -8.905 ± 0.207 χ^2/NDF : 4881.8/28

All: -8.420 ± 0.150 χ^2/NDF : 7069.2/53

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: -1.761 ± 0.211 χ^2/NDF : 1492.9/9

Right Out: -2.386 ± 0.355 χ^2/NDF : 450.9/18

Left In: -3.280 ± 0.208 χ^2/NDF : 761.2/8

Left: -2.530 ± 0.148 χ^2/NDF : 2280.4/18

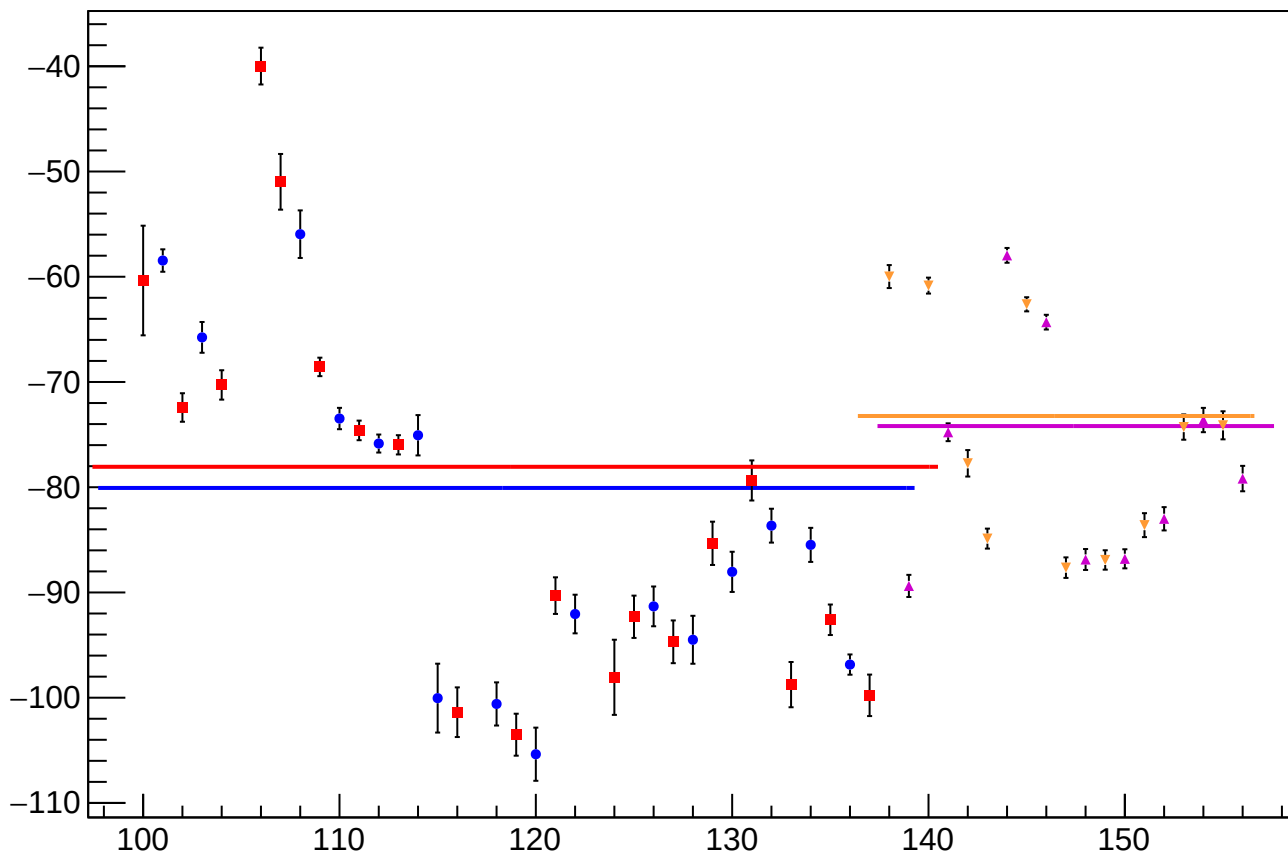
Right: -2.218 ± 0.252 χ^2/NDF : 1223.3/34

In: -2.966 ± 0.180 χ^2/NDF : 1542.0/24

Out: -1.924 ± 0.181 χ^2/NDF : 1946.1/28

All: -2.450 ± 0.128 χ^2/NDF : 3504.8/53

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: -73.232 ± 0.304 χ^2/NDF : 1350.4/9

Right Out: -78.059 ± 0.354 χ^2/NDF : 1561.2/18

Left In: -74.189 ± 0.304 χ^2/NDF : 1375.9/8

Left: -73.711 ± 0.215 χ^2/NDF : 2731.3/18

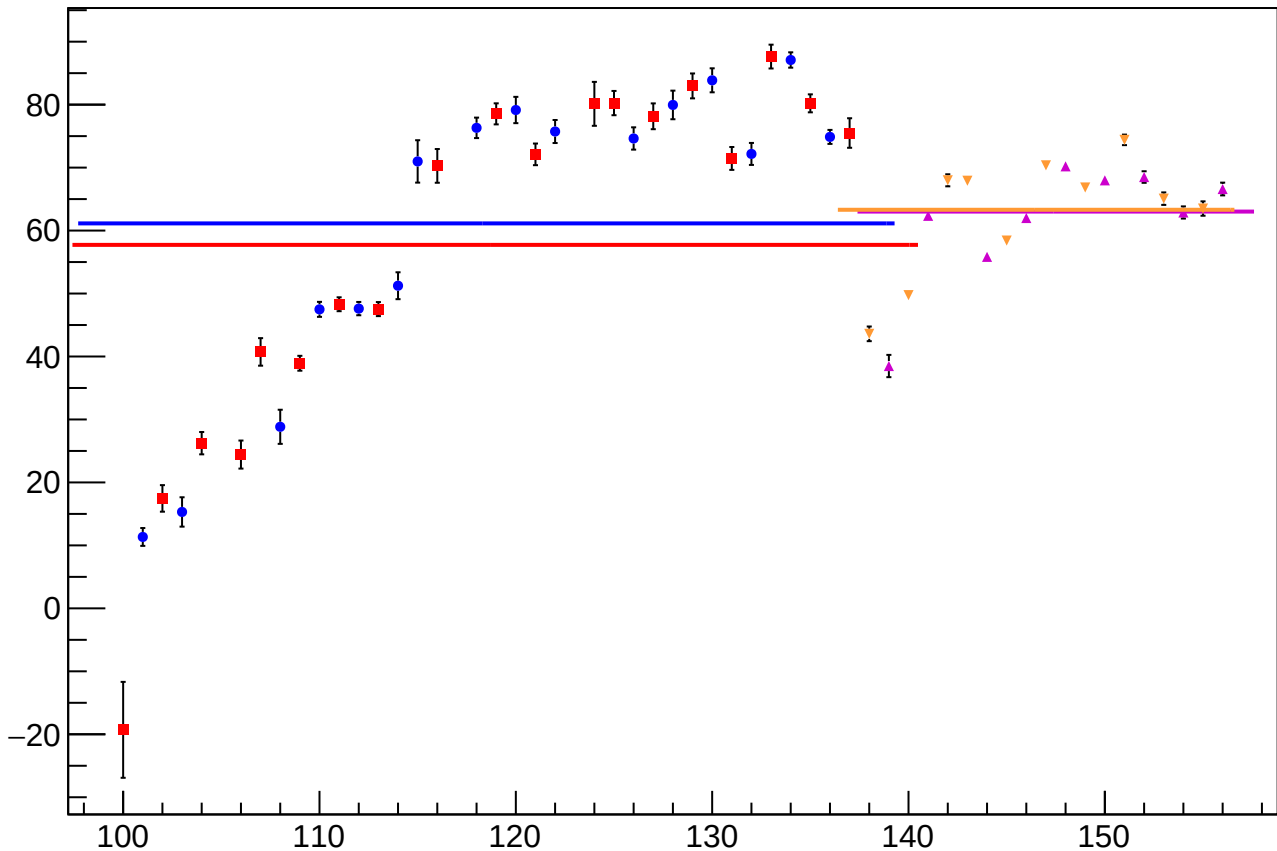
Right: -79.033 ± 0.254 χ^2/NDF : 2964.1/34

In: -76.599 ± 0.233 χ^2/NDF : 2916.8/24

Out: -75.287 ± 0.231 χ^2/NDF : 3018.7/28

All: -75.936 ± 0.164 χ^2/NDF : 5951.5/53

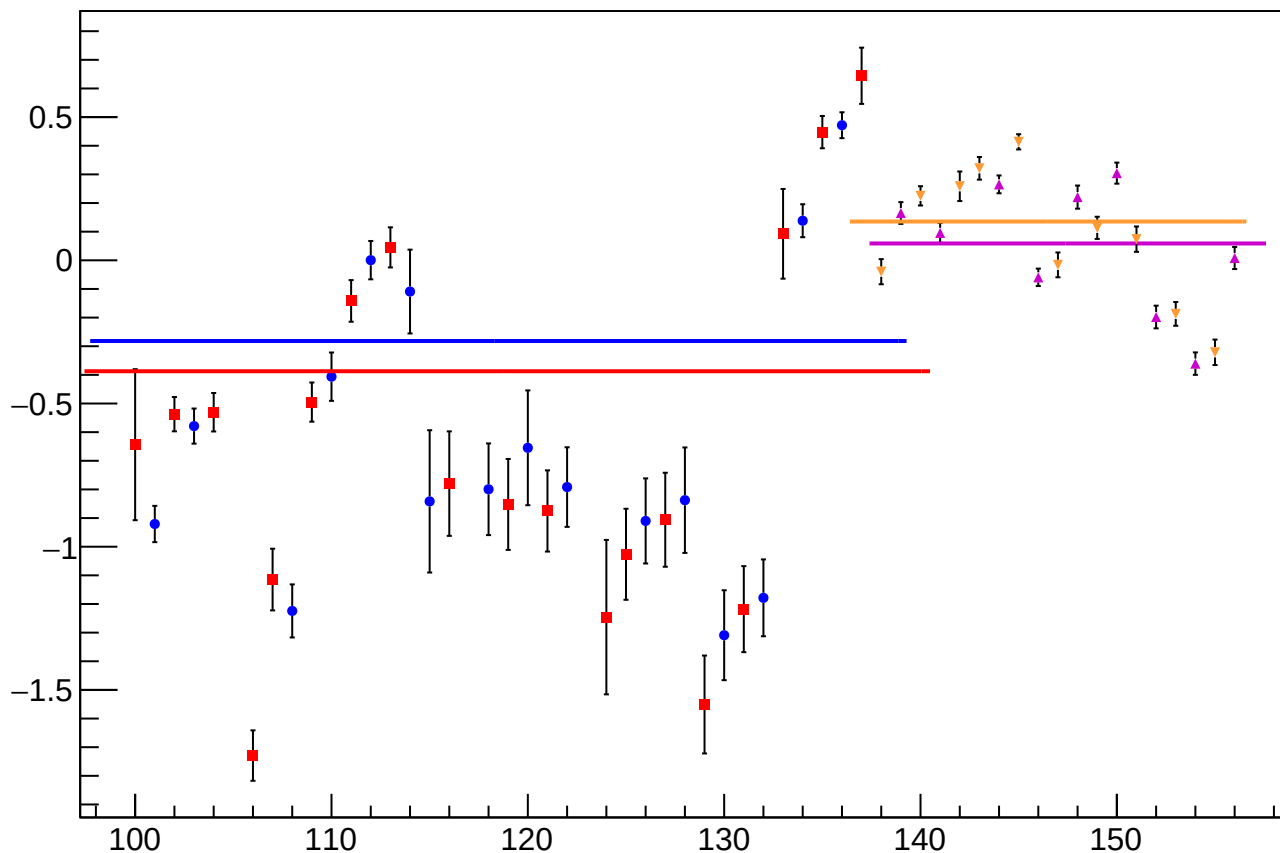
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.139 $\pm$ 0.401 χ^2 /NDF: 3229.3/15
 Left Out: 63.303 $\pm$ 0.257 χ^2 /NDF:1066.3/9
 Right Out: 57.728 $\pm$ 0.400 χ^2 /NDF: 2775.6/18
 Left In: 63.016 $\pm$ 0.253 χ^2 /NDF:542.1/8

Left: 63.158 $\pm$ 0.180 χ^2 /NDF: 1609.0/18
 Right: 59.431 $\pm$ 0.283 χ^2 /NDF: 6041.2/34
 In: 62.481 $\pm$ 0.214 χ^2 /NDF:3787.1/24
 Out: 61.678 $\pm$ 0.216 χ^2 /NDF:3979.5/28
 All: 62.083 $\pm$ 0.152 χ^2 /NDF: 7773.5/53

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: 0.135 ± 0.012 χ^2/NDF : 340.7/9

Right Out: -0.387 ± 0.022 χ^2/NDF : 818.7/18

Left In: 0.059 ± 0.012 χ^2/NDF : 287.1/8

Left: 0.096 ± 0.009 χ^2/NDF : 647.7/18

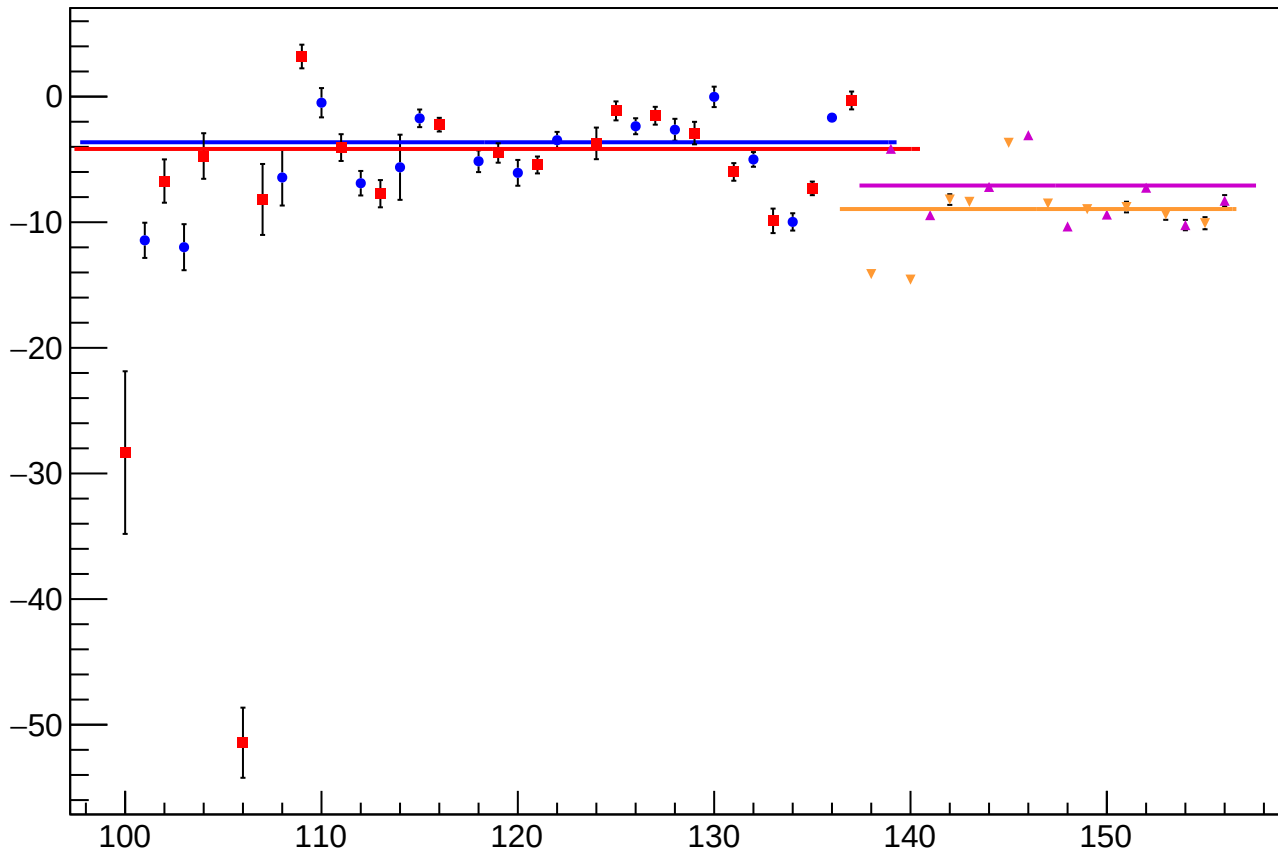
Right: -0.334 ± 0.015 χ^2/NDF : 1558.7/34

In: -0.021 ± 0.010 χ^2/NDF : 1204.9/24

Out: 0.010 ± 0.011 χ^2/NDF : 1592.7/28

All: -0.006 ± 0.007 χ^2/NDF : 2802.1/53

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.634 ± 0.189 $\chi^2/\text{NDF}: 234.8/15$

Left Out: -8.950 ± 0.106 $\chi^2/\text{NDF}: 1274.1/9$

Right Out: -4.167 ± 0.199 $\chi^2/\text{NDF}: 529.7/18$

Left In: -7.078 ± 0.106 $\chi^2/\text{NDF}: 618.5/8$

Left: -8.013 ± 0.075 $\chi^2/\text{NDF}: 2049.4/18$

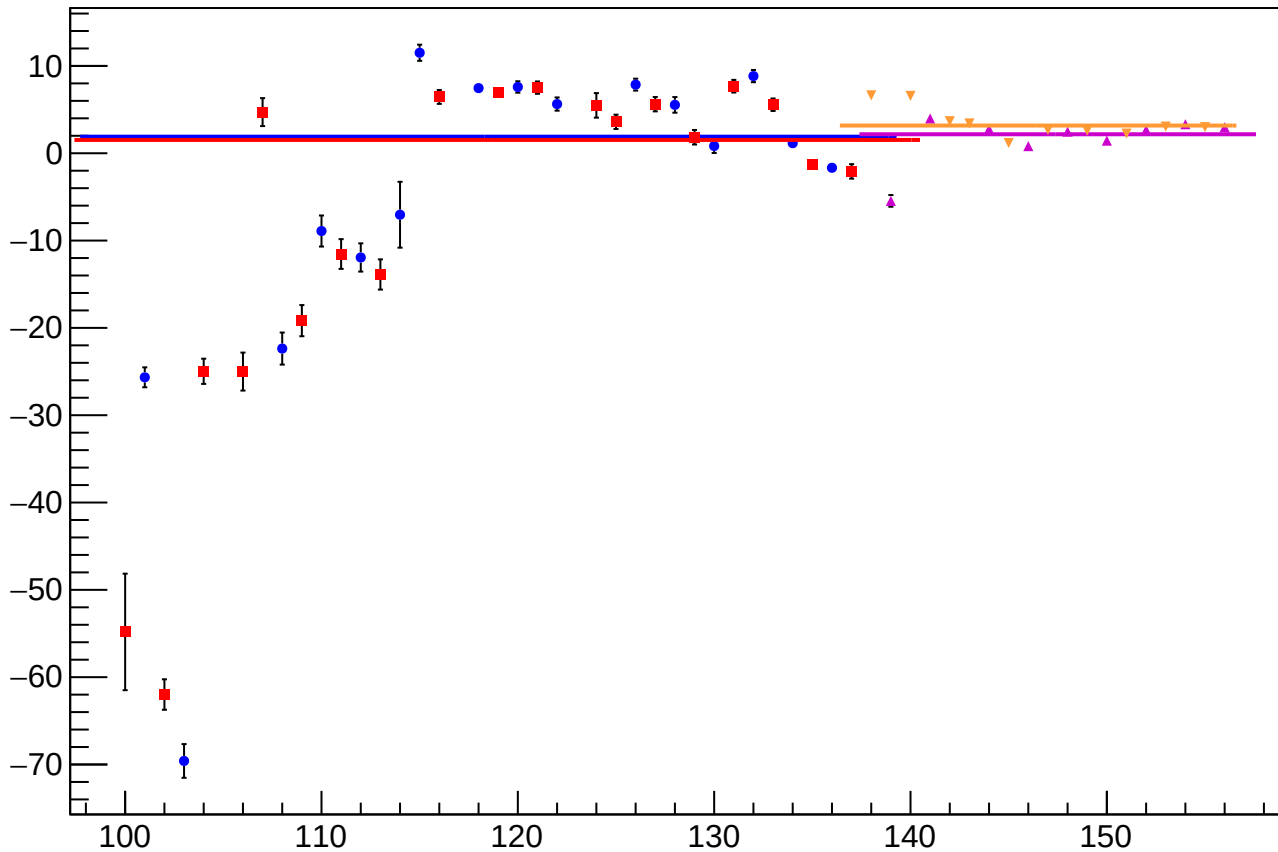
Right: -3.886 ± 0.137 $\chi^2/\text{NDF}: 768.2/34$

In: -6.259 ± 0.092 $\chi^2/\text{NDF}: 1106.3/24$

Out: -7.900 ± 0.093 $\chi^2/\text{NDF}: 2252.7/28$

All: -7.069 ± 0.066 $\chi^2/\text{NDF}: 3515.3/53$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.898 $\pm$ 0.189 χ^2 /NDF: 2838.2/15

Left Out: 3.174 $\pm$ 0.073 χ^2 /NDF:507.2/9

Right Out: 1.525 $\pm$ 0.208 χ^2 /NDF: 2559.8/18

Left In: 2.175 $\pm$ 0.071 χ^2 /NDF:350.9/8

Left: 2.656 $\pm$ 0.051 χ^2 /NDF: 954.3/18

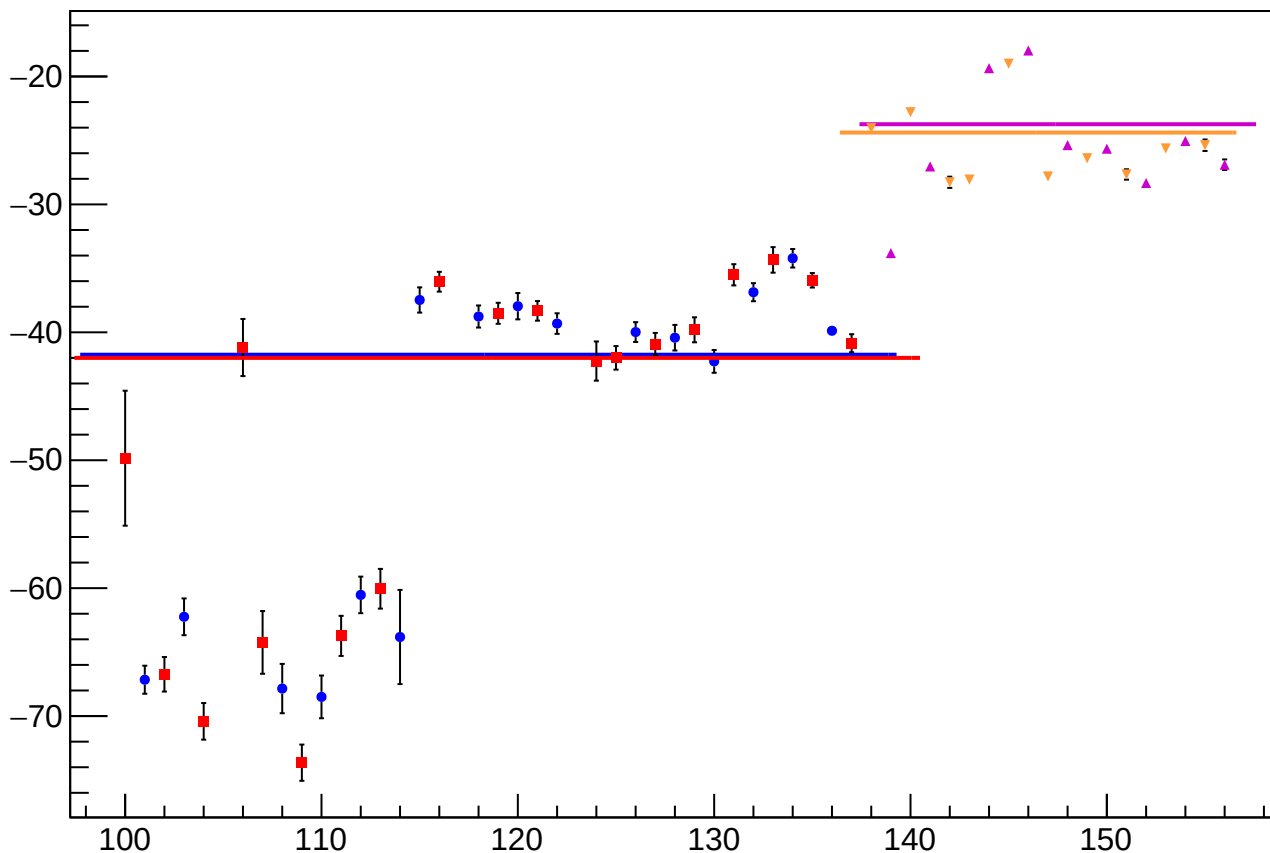
Right: 1.730 $\pm$ 0.140 χ^2 /NDF: 5399.7/34

In: 2.141 $\pm$ 0.066 χ^2 /NDF:3191.0/24

Out: 2.992 $\pm$ 0.069 χ^2 /NDF:3122.7/28

All: 2.548 $\pm$ 0.048 χ^2 /NDF: 6392.7/53

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.751 ± 0.208 $\chi^2/\text{NDF}: 1633.9/15$

Left Out: -24.385 ± 0.105 $\chi^2/\text{NDF}: 1044.6/9$

Right Out: -41.999 ± 0.228 $\chi^2/\text{NDF}: 1985.2/18$

Left In: -23.732 ± 0.103 $\chi^2/\text{NDF}: 2106.3/8$

Left: -24.052 ± 0.074 $\chi^2/\text{NDF}: 3170.4/18$

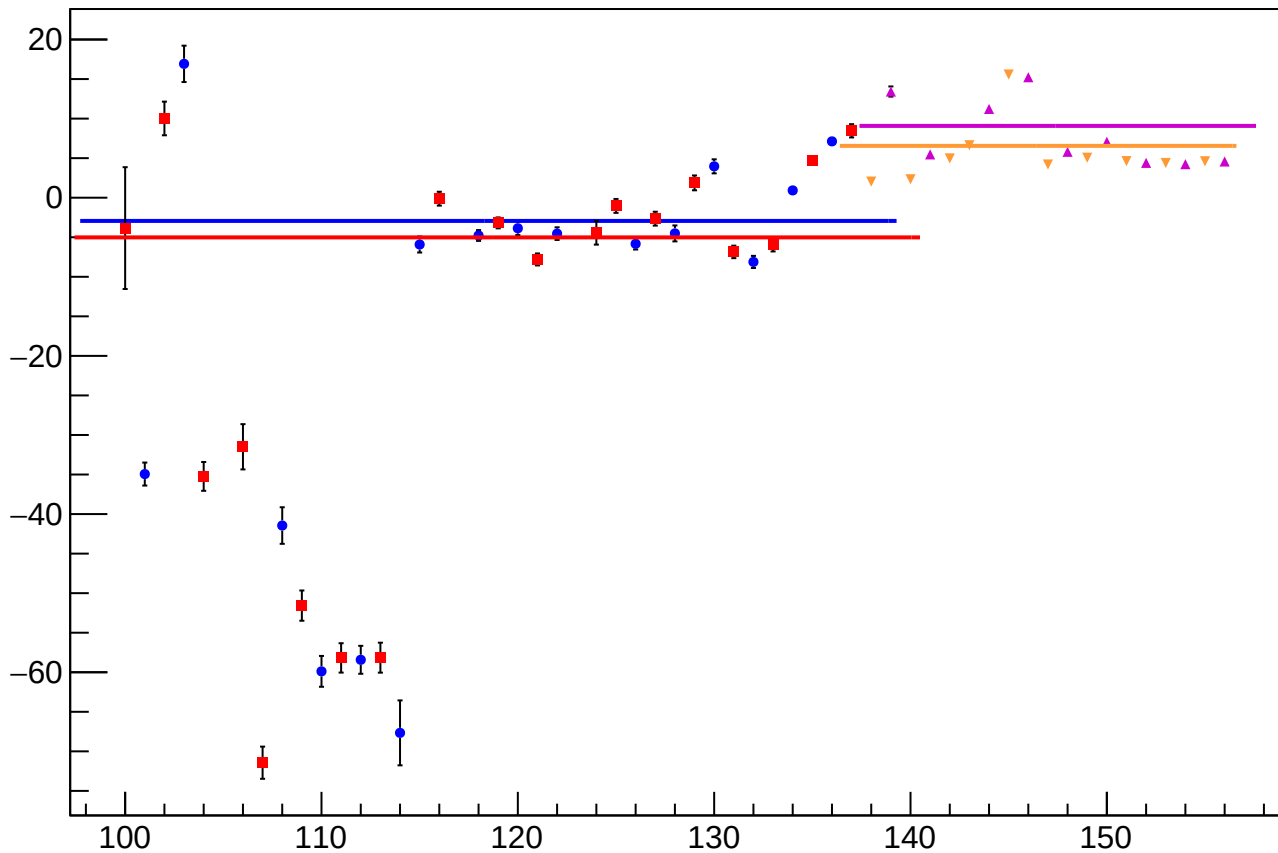
Right: -41.863 ± 0.154 $\chi^2/\text{NDF}: 3619.8/34$

In: -27.312 ± 0.093 $\chi^2/\text{NDF}: 9775.7/24$

Out: -27.475 ± 0.096 $\chi^2/\text{NDF}: 7939.8/28$

All: -27.391 ± 0.066 $\chi^2/\text{NDF}: 17716.9/53$

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: 6.554 ± 0.089 χ^2/NDF : 2630.1/9

Right Out: -5.018 ± 0.232 χ^2/NDF : 4377.3/18

Left In: 9.079 ± 0.086 χ^2/NDF : 2488.0/8

Left: 7.861 ± 0.062 χ^2/NDF : 5535.5/18

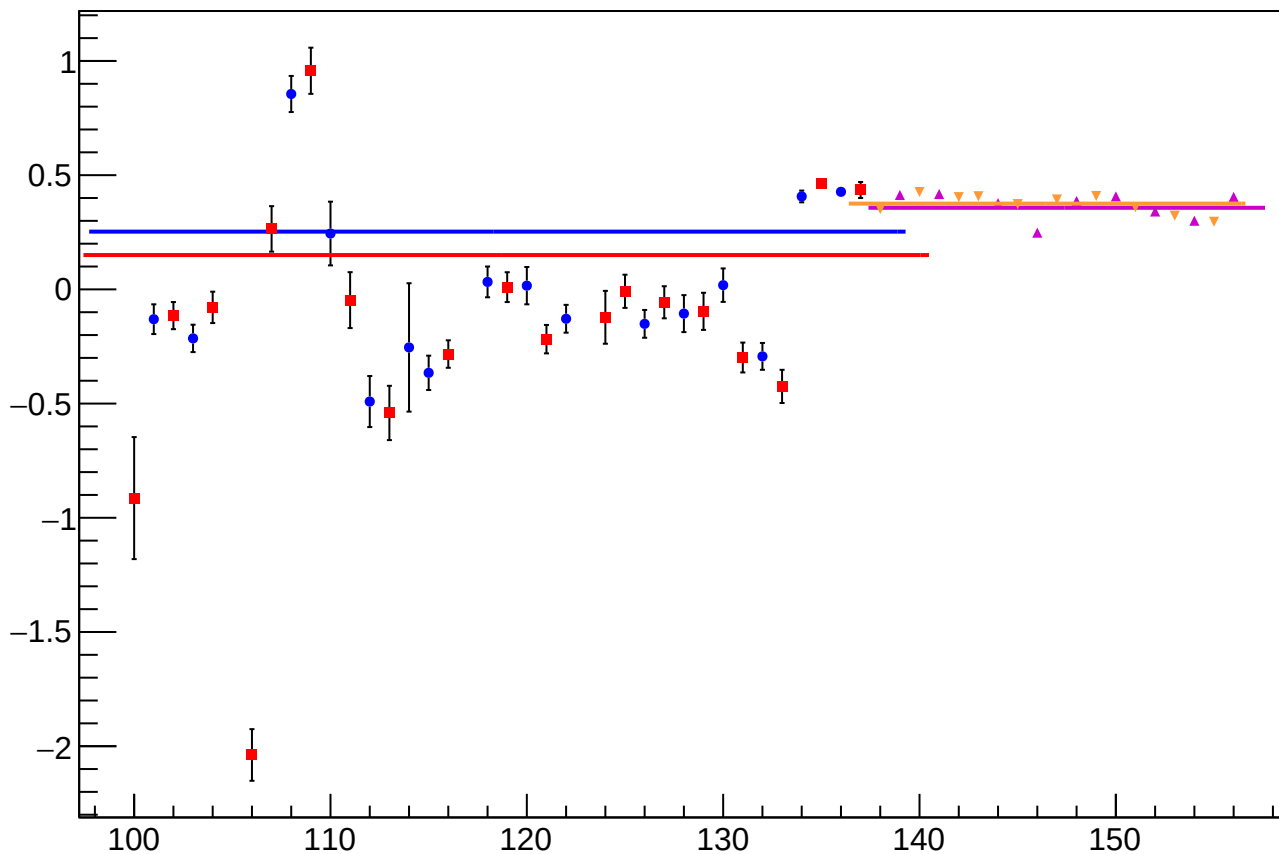
Right: -3.873 ± 0.155 χ^2/NDF : 8147.2/34

In: 7.354 ± 0.079 χ^2/NDF : 9026.4/24

Out: 5.069 ± 0.083 χ^2/NDF : 9179.9/28

All: 6.262 ± 0.057 χ^2/NDF : 18601.6/53

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: 0.376 ± 0.004 χ^2/NDF : 79.5/9

Right Out: 0.150 ± 0.013 χ^2/NDF : 1018.0/18

Left In: 0.357 ± 0.004 χ^2/NDF : 224.0/8

Left: 0.366 ± 0.003 χ^2/NDF : 313.2/18

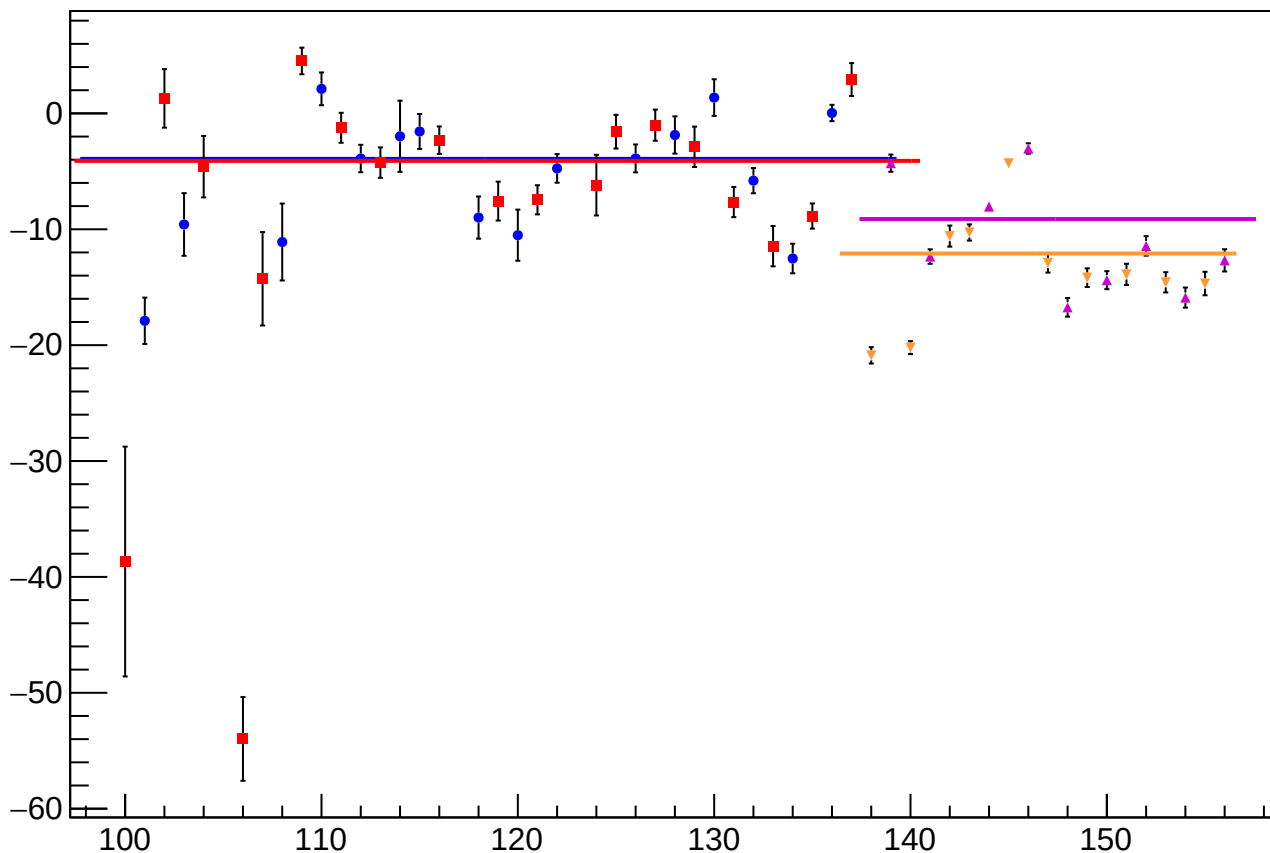
Right: 0.209 ± 0.009 χ^2/NDF : 1682.8/34

In: 0.345 ± 0.004 χ^2/NDF : 928.3/24

Out: 0.355 ± 0.004 χ^2/NDF : 1356.0/28

All: 0.350 ± 0.003 χ^2/NDF : 2287.2/53

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: -12.093 ± 0.216 χ^2/NDF : 790.8/9

Right Out: -4.096 ± 0.357 χ^2/NDF : 366.9/18

Left In: -9.114 ± 0.214 χ^2/NDF : 477.3/8

Left: -10.590 ± 0.152 χ^2/NDF : 1363.8/18

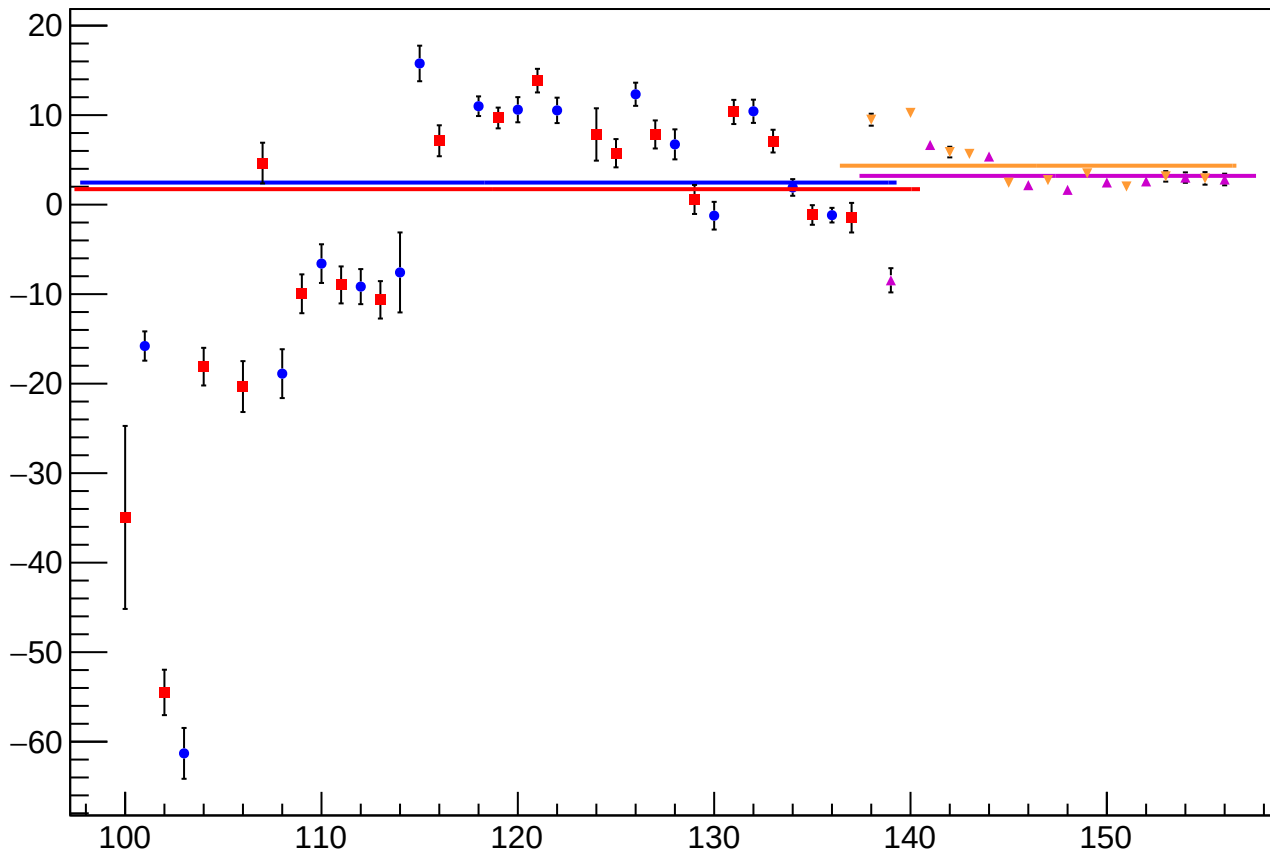
Right: -4.007 ± 0.248 χ^2/NDF : 555.8/34

In: -7.674 ± 0.182 χ^2/NDF : 828.7/24

Out: -9.944 ± 0.185 χ^2/NDF : 1524.9/28

All: -8.792 ± 0.130 χ^2/NDF : 2430.0/53

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: 4.350 ± 0.152 χ^2/NDF : 322.5/9

Right Out: 1.728 ± 0.386 χ^2/NDF : 983.1/18

Left In: 3.213 ± 0.143 χ^2/NDF : 214.7/8

Left: 3.747 ± 0.104 χ^2/NDF : 566.8/18

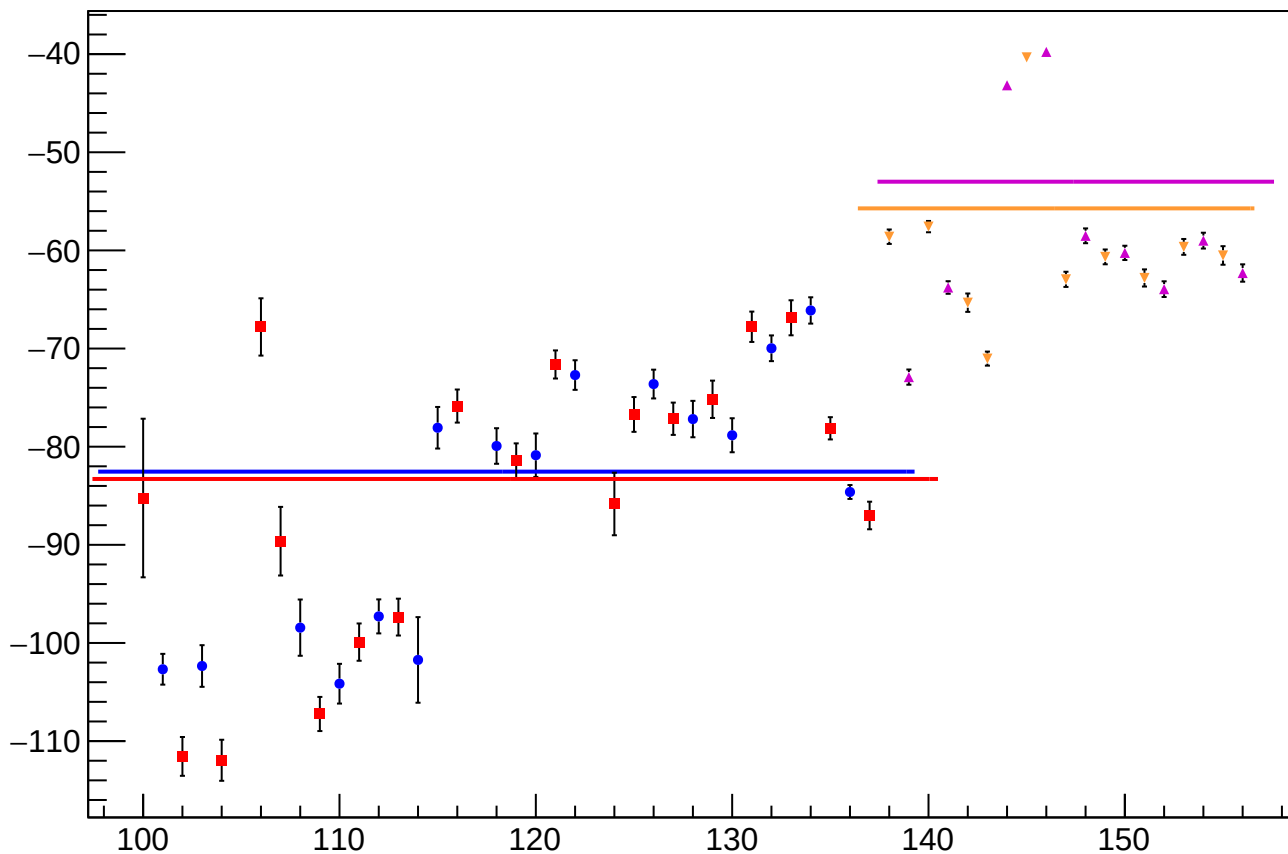
Right: 2.126 ± 0.262 χ^2/NDF : 2031.8/34

In: 3.110 ± 0.133 χ^2/NDF : 1265.3/24

Out: 3.998 ± 0.142 χ^2/NDF : 1345.5/28

All: 3.526 ± 0.097 χ^2/NDF : 2631.7/53

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: -55.718 ± 0.216 χ^2/NDF : 2265.6/9

Right Out: -83.290 ± 0.414 χ^2/NDF : 1092.6/18

Left In: -52.999 ± 0.210 χ^2/NDF : 2879.2/8

Left: -54.322 ± 0.151 χ^2/NDF : 5226.0/18

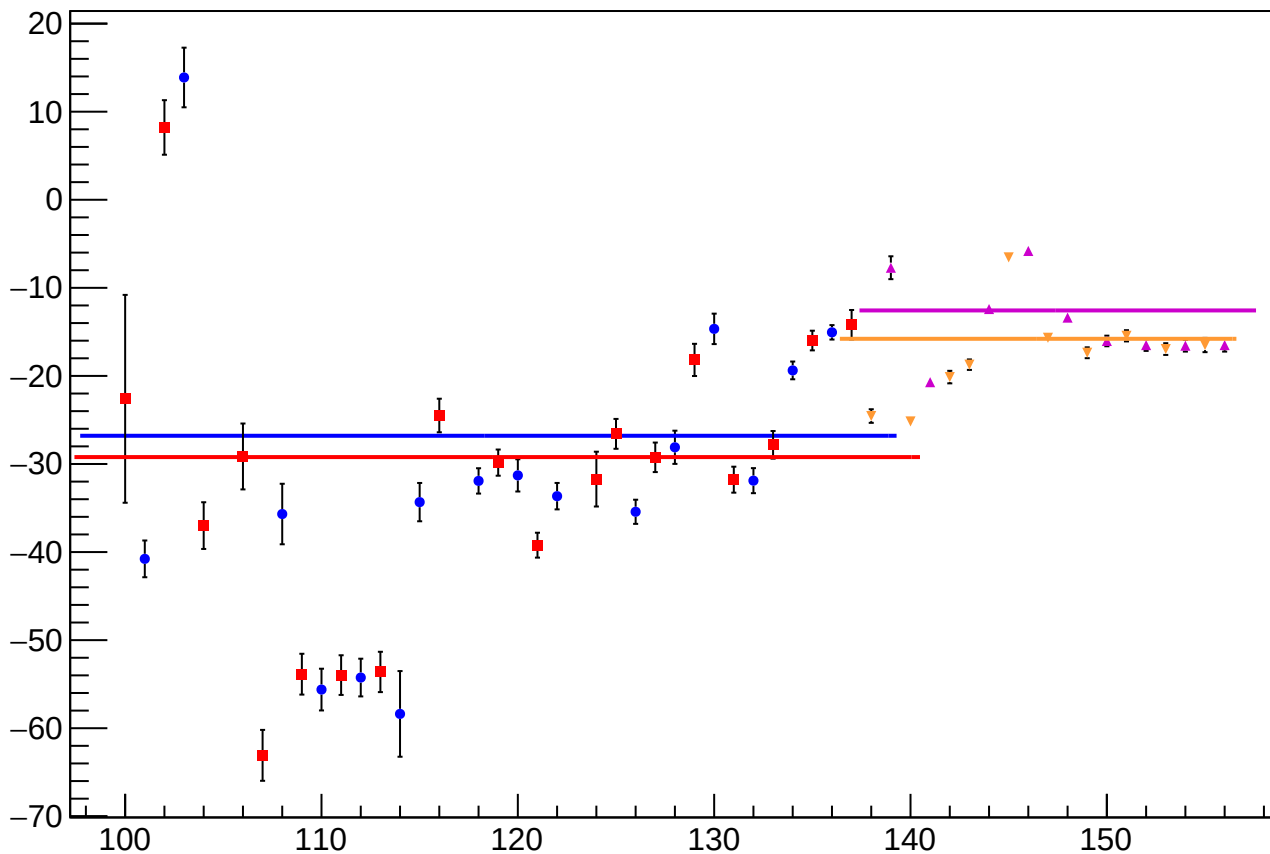
Right: -82.888 ± 0.282 χ^2/NDF : 1933.1/34

In: -59.816 ± 0.185 χ^2/NDF : 8263.7/24

Out: -61.623 ± 0.192 χ^2/NDF : 6839.4/28

All: -60.686 ± 0.133 χ^2/NDF : 15149.1/53

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.796 ± 0.396 $\chi^2/\text{NDF}: 963.5/15$

Left Out: -15.786 ± 0.184 $\chi^2/\text{NDF}: 1118.9/9$

Right Out: -29.216 ± 0.431 $\chi^2/\text{NDF}: 960.7/18$

Left In: -12.566 ± 0.174 $\chi^2/\text{NDF}: 788.7/8$

Left: -14.092 ± 0.126 $\chi^2/\text{NDF}: 2069.2/18$

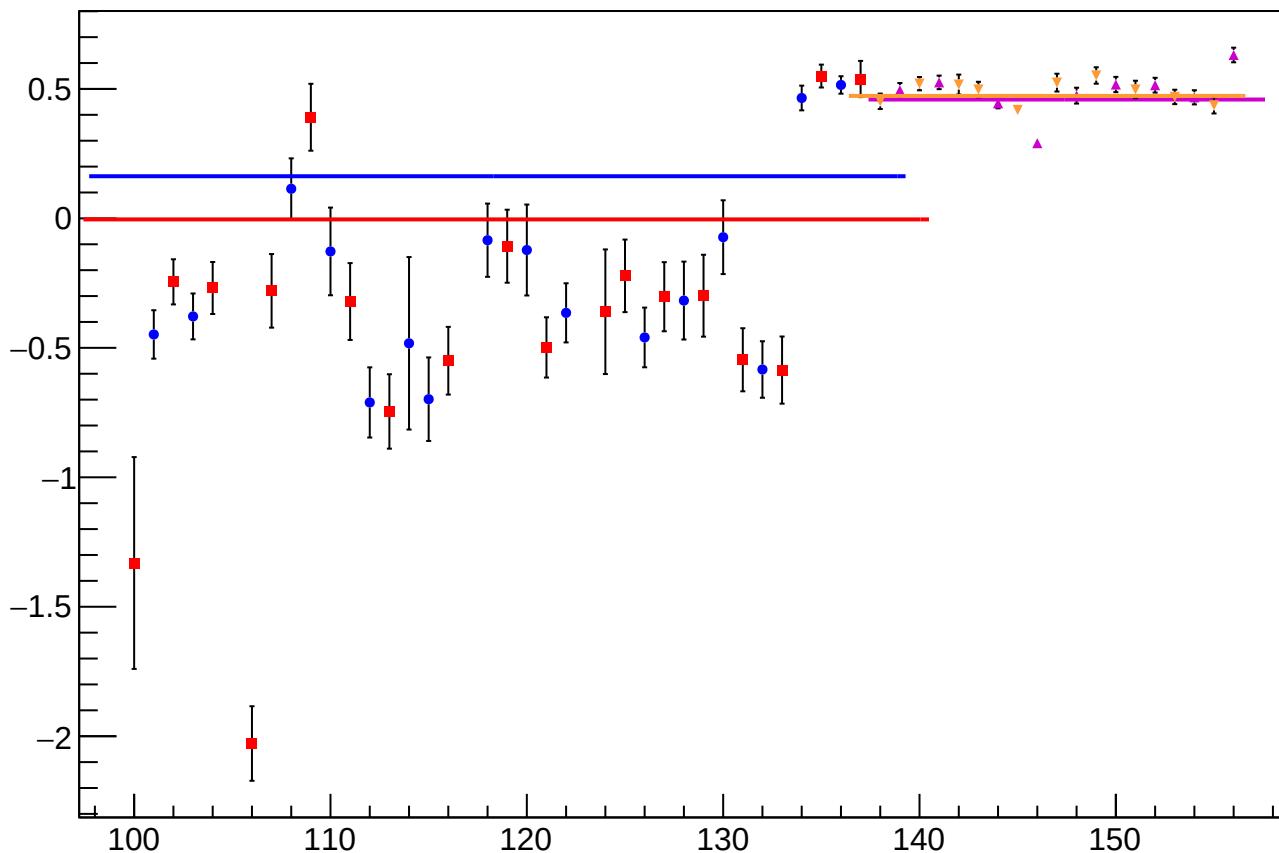
Right: -27.902 ± 0.291 $\chi^2/\text{NDF}: 1941.2/34$

In: -14.880 ± 0.160 $\chi^2/\text{NDF}: 2835.7/24$

Out: -17.849 ± 0.169 $\chi^2/\text{NDF}: 2900.9/28$

All: -16.279 ± 0.116 $\chi^2/\text{NDF}: 5899.9/53$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.163 ± 0.021 $\chi^2/\text{NDF}: 422.6/15$

Left Out: 0.473 ± 0.009 $\chi^2/\text{NDF}: 27.4/9$

Right Out: -0.004 ± 0.024 $\chi^2/\text{NDF}: 573.3/18$

Left In: 0.459 ± 0.008 $\chi^2/\text{NDF}: 134.7/8$

Left: 0.466 ± 0.006 $\chi^2/\text{NDF}: 163.5/18$

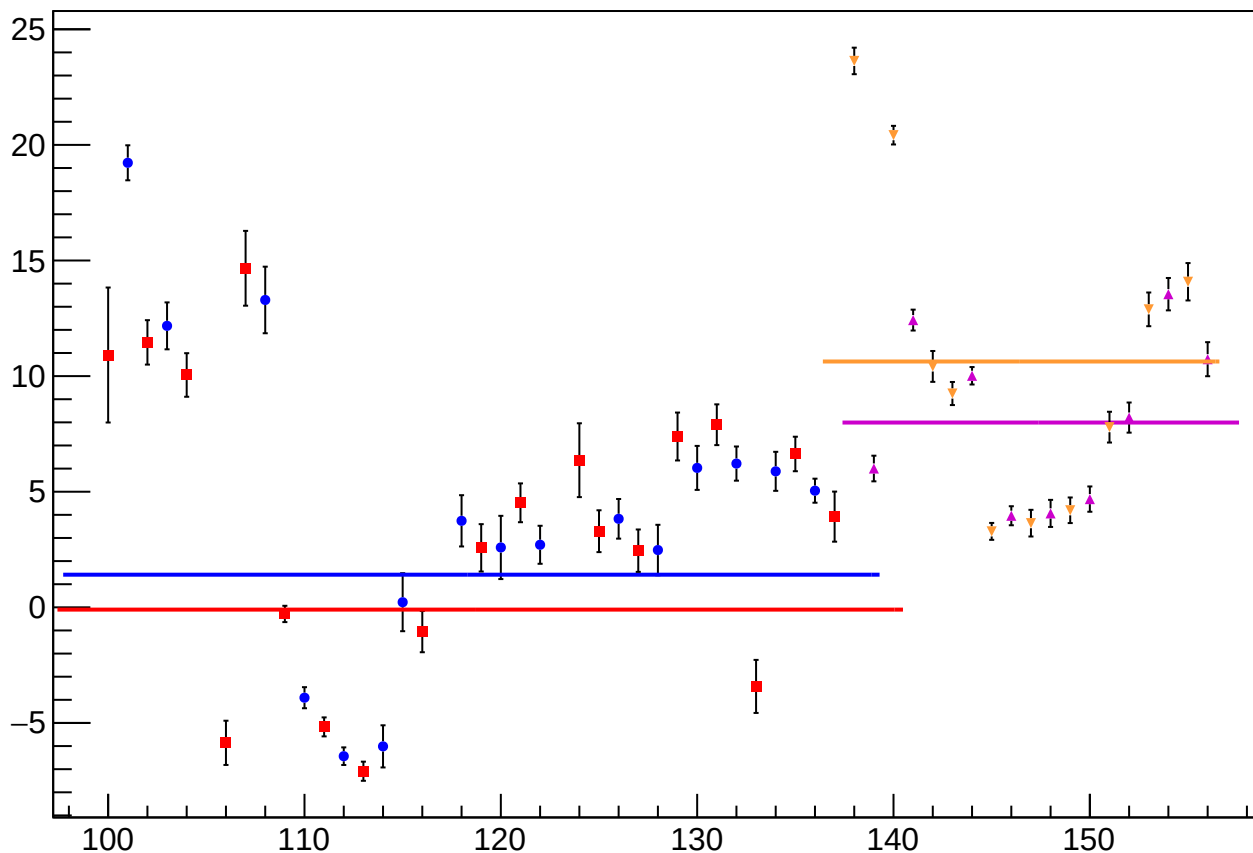
Right: 0.090 ± 0.016 $\chi^2/\text{NDF}: 1022.3/34$

In: 0.420 ± 0.008 $\chi^2/\text{NDF}: 723.4/24$

Out: 0.420 ± 0.008 $\chi^2/\text{NDF}: 939.7/28$

All: 0.420 ± 0.006 $\chi^2/\text{NDF}: 1663.1/53$

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: 10.632 ± 0.169 $\chi^2/\text{NDF}: 1844.1/9$

Right Out: -0.098 ± 0.167 $\chi^2/\text{NDF}: 1147.2/18$

Left In: 7.992 ± 0.173 $\chi^2/\text{NDF}: 392.3/8$

Left: 9.337 ± 0.121 $\chi^2/\text{NDF}: 2355.7/18$

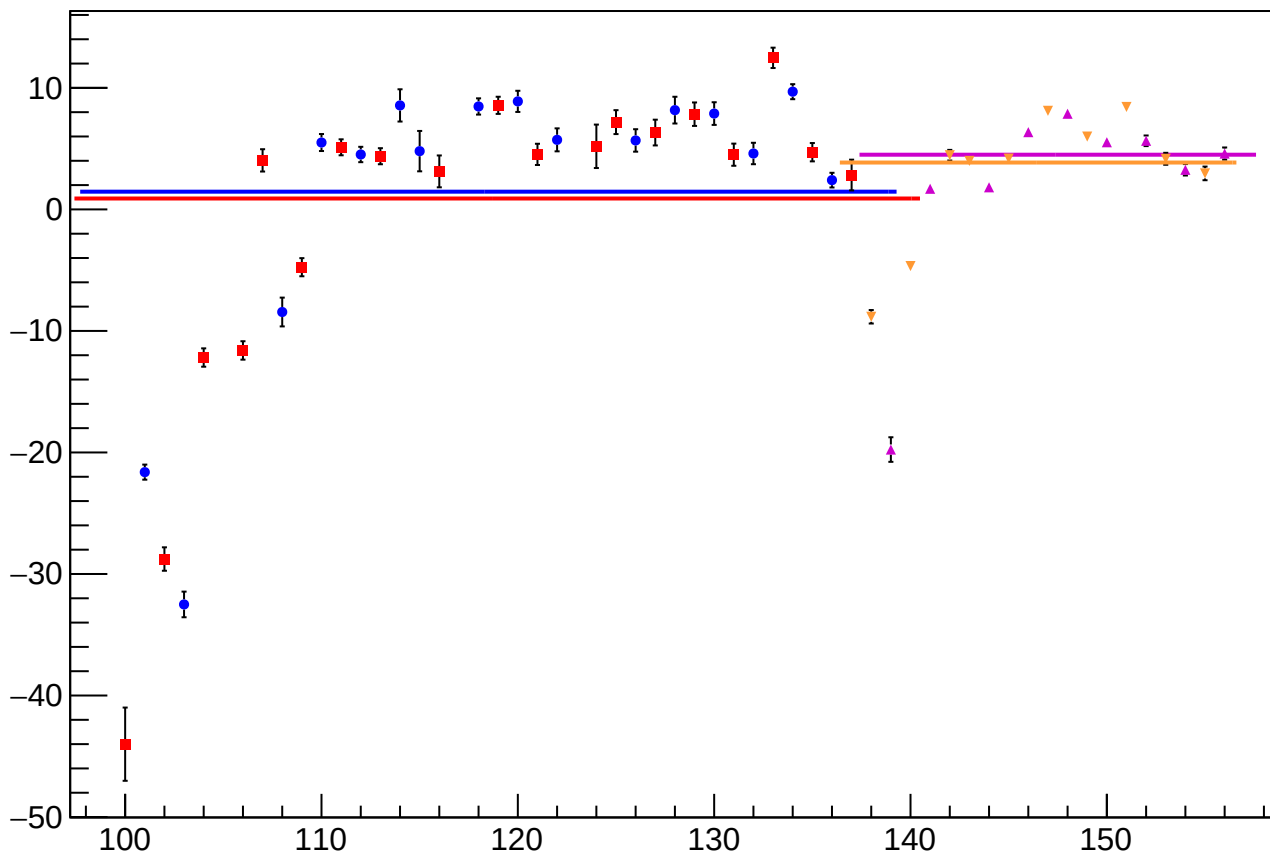
Right: 0.589 ± 0.124 $\chi^2/\text{NDF}: 2706.4/34$

In: 4.897 ± 0.126 $\chi^2/\text{NDF}: 2598.4/24$

Out: 5.206 ± 0.119 $\chi^2/\text{NDF}: 5022.4/28$

All: 5.060 ± 0.086 $\chi^2/\text{NDF}: 7624.0/53$

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: 3.857 ± 0.117 $\chi^2/\text{NDF}: 1639.3/9$

Right Out: 0.896 ± 0.202 $\chi^2/\text{NDF}: 2377.1/18$

Left In: 4.500 ± 0.116 $\chi^2/\text{NDF}: 970.3/8$

Left: 4.181 ± 0.082 $\chi^2/\text{NDF}: 2625.0/18$

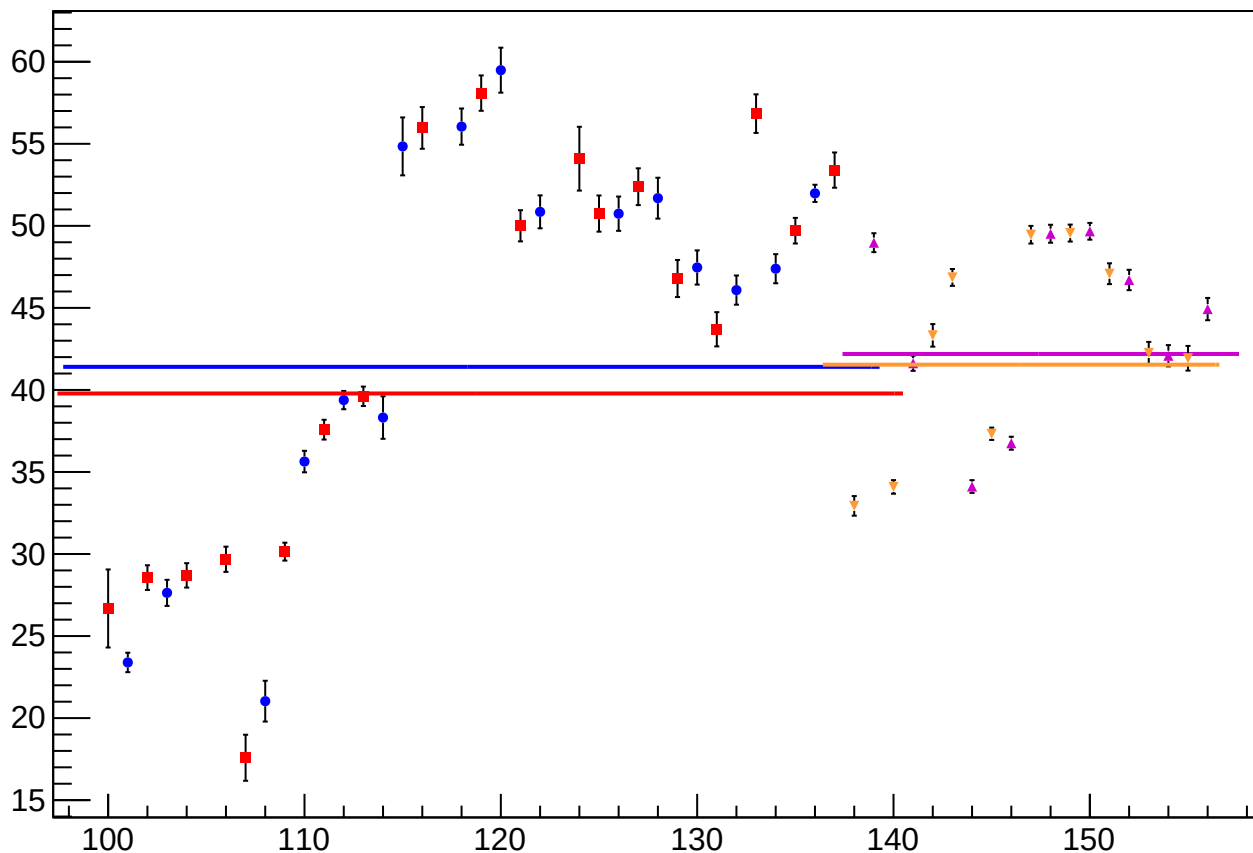
Right: 1.176 ± 0.143 $\chi^2/\text{NDF}: 5461.2/34$

In: 3.757 ± 0.101 $\chi^2/\text{NDF}: 4219.5/24$

Out: 3.116 ± 0.101 $\chi^2/\text{NDF}: 4177.4/28$

All: 3.438 ± 0.071 $\chi^2/\text{NDF}: 8417.1/53$

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: 41.540 $\pm$ 0.168 χ^2 /NDF:1304.8/9

Right Out: 39.784 $\pm$ 0.203 χ^2 /NDF: 2653.8/18

Left In: 42.191 $\pm$ 0.169 χ^2 /NDF:1222.8/8

Left: 41.864 $\pm$ 0.119 χ^2 /NDF: 2535.0/18

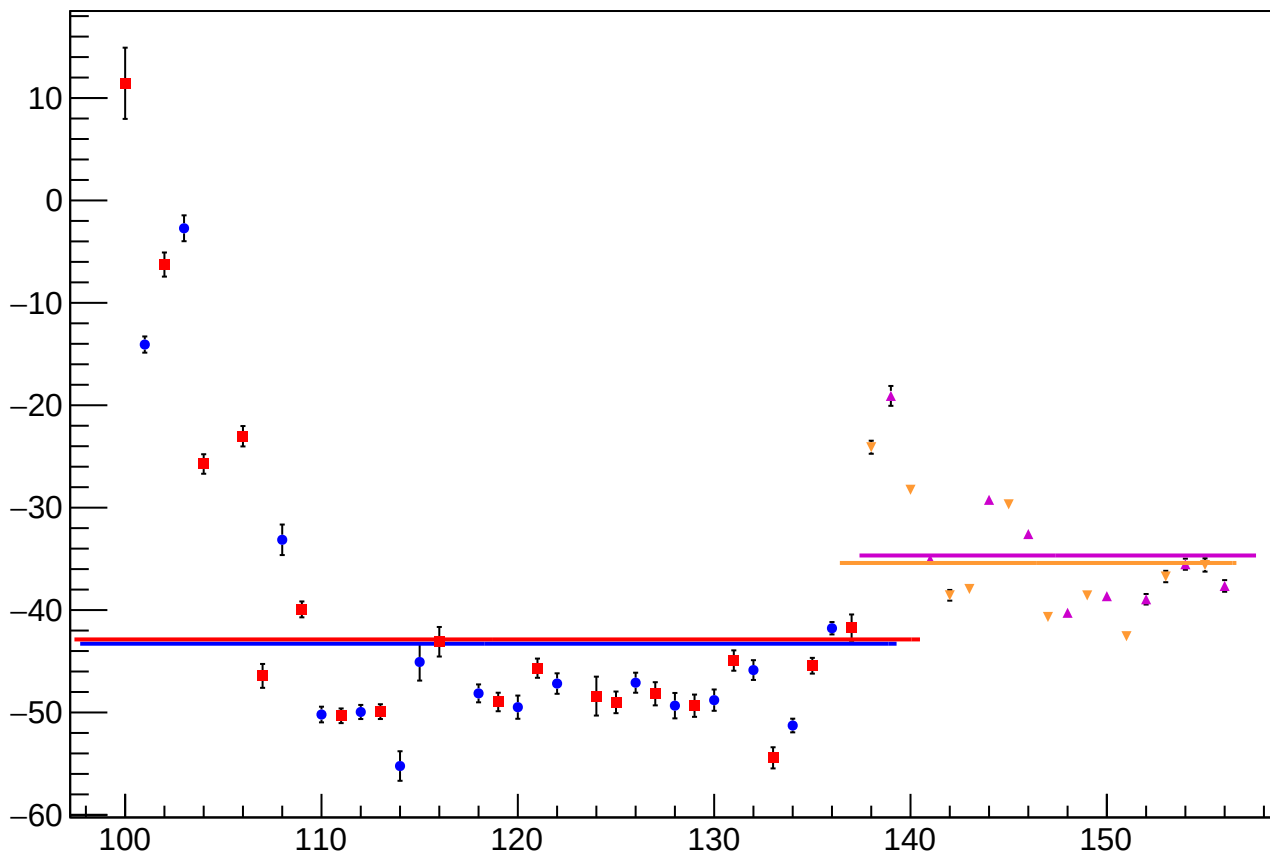
Right: 40.565 $\pm$ 0.146 χ^2 /NDF: 5430.6/34

In: 41.884 $\pm$ 0.132 χ^2 /NDF:3977.2/24

Out: 40.823 $\pm$ 0.130 χ^2 /NDF:4002.9/28

All: 41.344 $\pm$ 0.092 χ^2 /NDF: 8013.0/53

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: -35.401 ± 0.142 χ^2/NDF : 1487.2/9

Right Out: -42.867 ± 0.229 χ^2/NDF : 2454.2/18

Left In: -34.671 ± 0.141 χ^2/NDF : 982.0/8

Left: -35.032 ± 0.100 χ^2/NDF : 2482.5/18

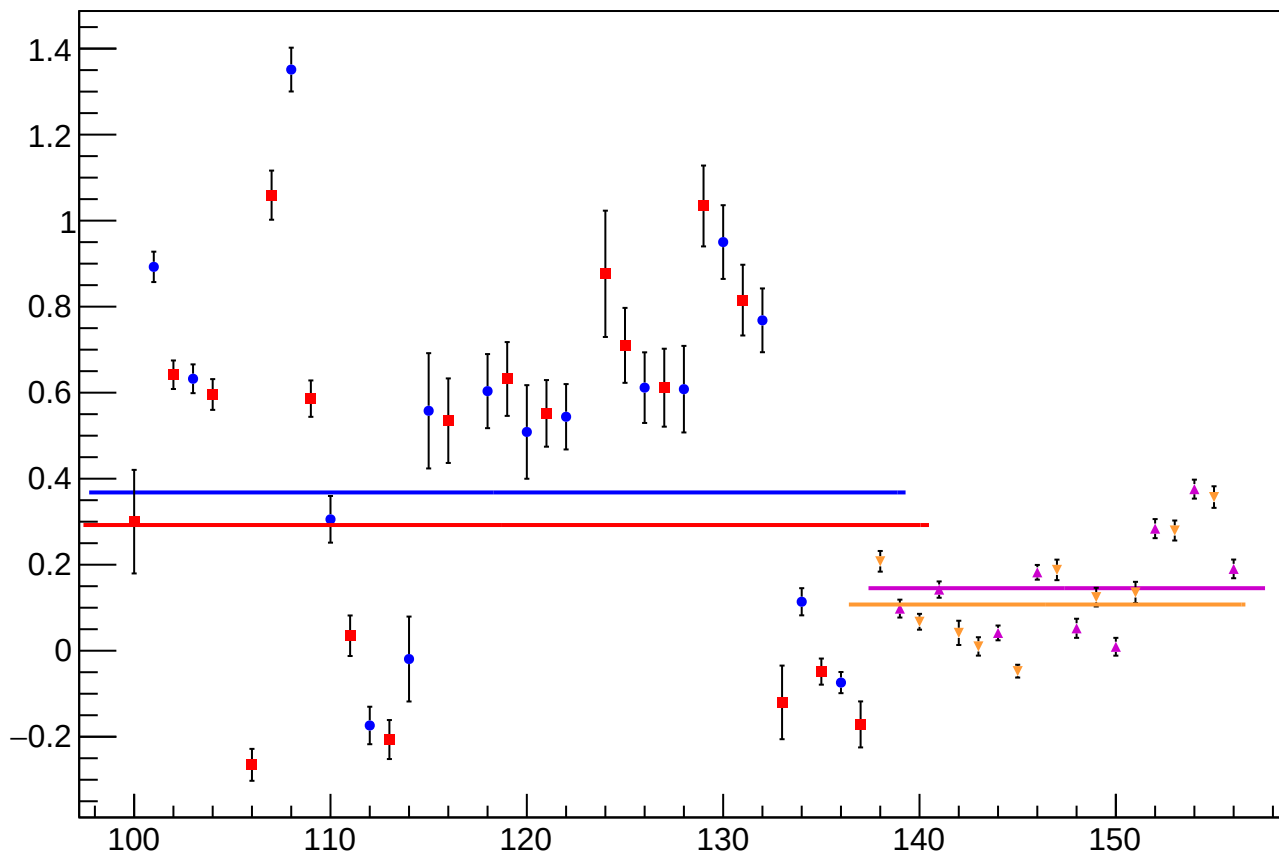
Right: -43.076 ± 0.162 χ^2/NDF : 5441.1/34

In: -37.028 ± 0.120 χ^2/NDF : 4992.1/24

Out: -37.474 ± 0.121 χ^2/NDF : 4709.1/28

All: -37.250 ± 0.085 χ^2/NDF : 9708.1/53

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: 0.107 $\pm$ 0.007 χ^2 /NDF:323.7/9

Right Out: 0.292 $\pm$ 0.012 χ^2 /NDF: 1199.2/18

Left In: 0.145 $\pm$ 0.007 χ^2 /NDF:259.6/8

Left: 0.127 $\pm$ 0.005 χ^2 /NDF: 599.2/18

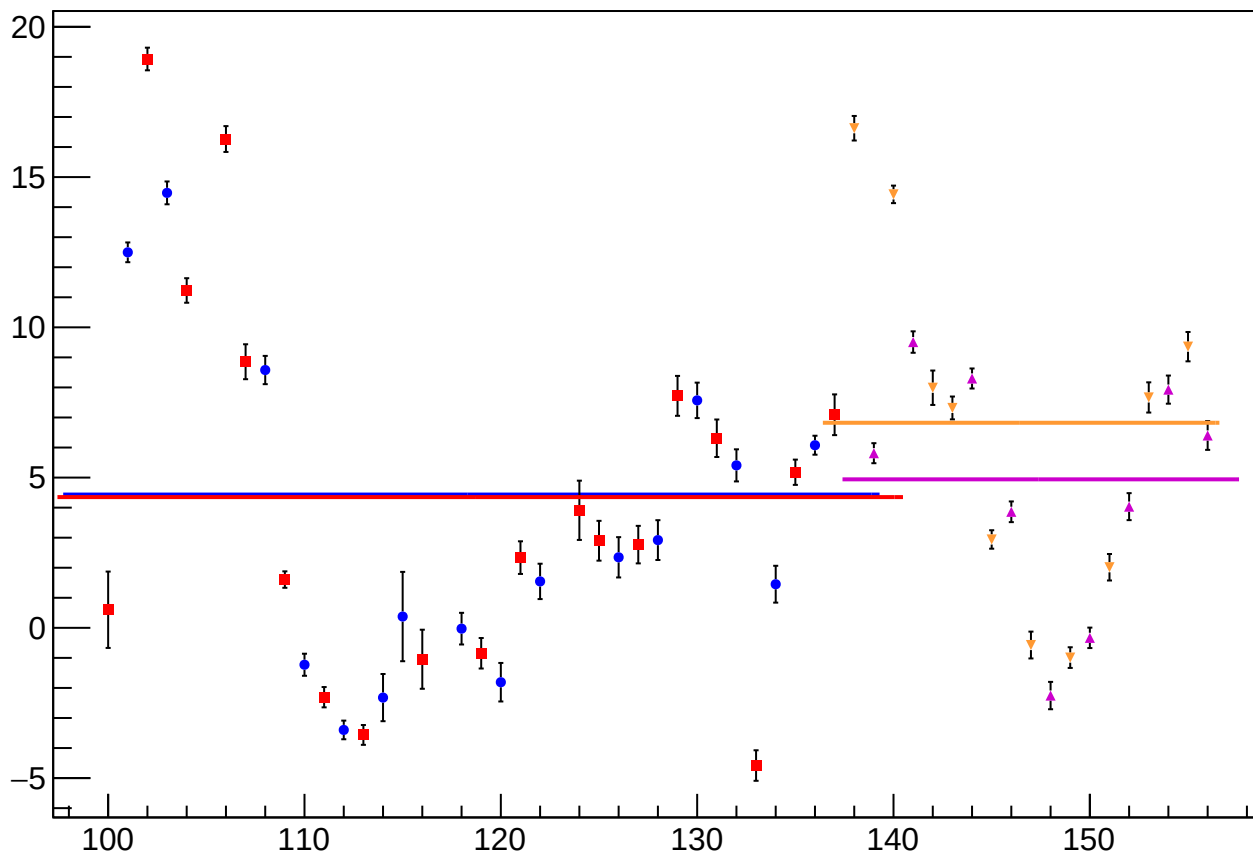
Right: 0.330 $\pm$ 0.009 χ^2 /NDF: 2539.6/34

In: 0.197 $\pm$ 0.006 χ^2 /NDF:1836.7/24

Out: 0.152 $\pm$ 0.006 χ^2 /NDF:1700.0/28

All: 0.175 $\pm$ 0.004 χ^2 /NDF: 3565.7/53

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.435 ± 0.117 χ^2/NDF : 2622.0/15

Left Out: 6.824 ± 0.124 χ^2/NDF : 2359.4/9

Right Out: 4.351 ± 0.109 χ^2/NDF : 4205.3/18

Left In: 4.941 ± 0.127 χ^2/NDF : 826.3/8

Left: 5.909 ± 0.089 χ^2/NDF : 3297.9/18

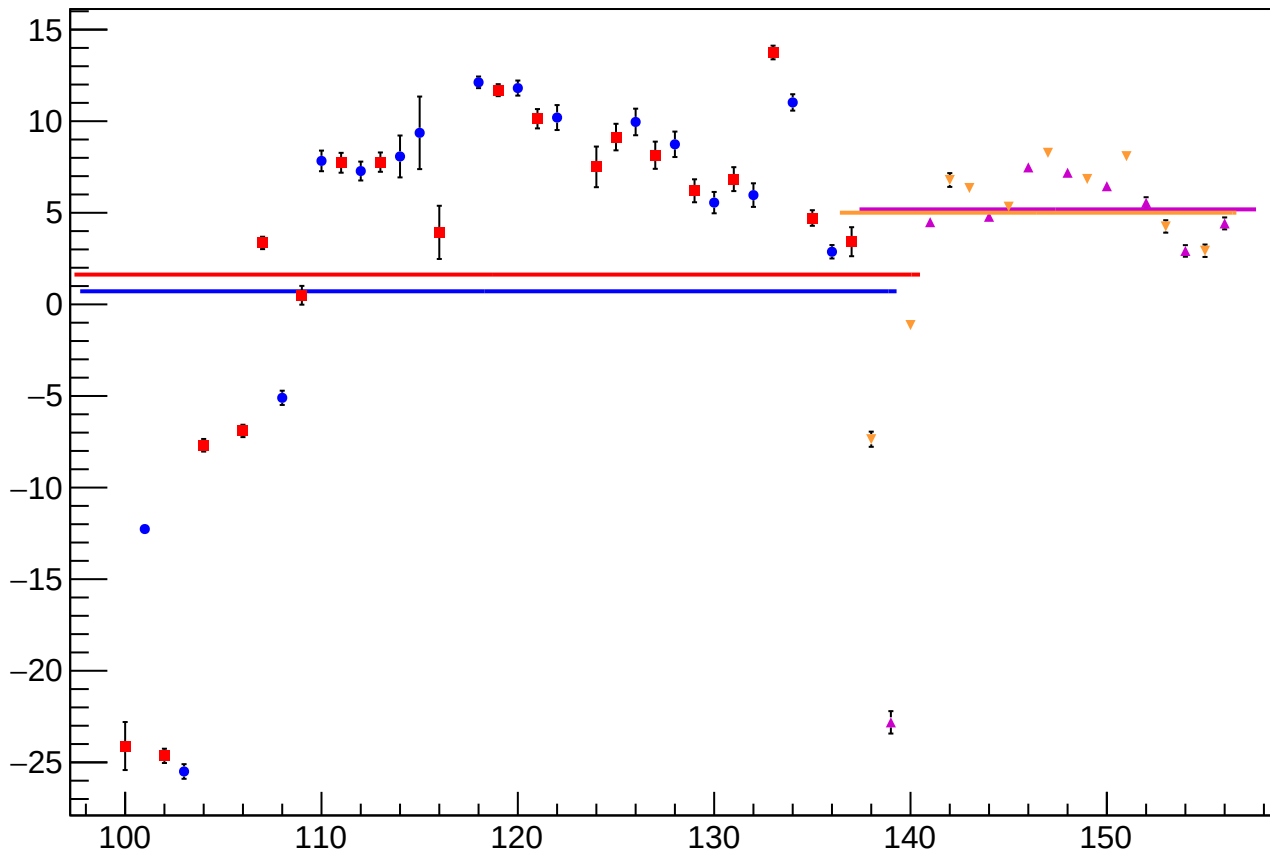
Right: 4.390 ± 0.080 χ^2/NDF : 6827.6/34

In: 4.667 ± 0.086 χ^2/NDF : 3456.9/24

Out: 5.431 ± 0.082 χ^2/NDF : 6789.1/28

All: 5.068 ± 0.059 χ^2/NDF : 10287.3/53

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: 5.005 $\pm$ 0.086 χ^2/NDF :2084.1/9

Right Out: 1.627 $\pm$ 0.111 χ^2/NDF : 9255.5/18

Left In: 5.186 $\pm$ 0.089 χ^2/NDF :2395.6/8

Left: 5.093 $\pm$ 0.062 χ^2/NDF : 4481.8/18

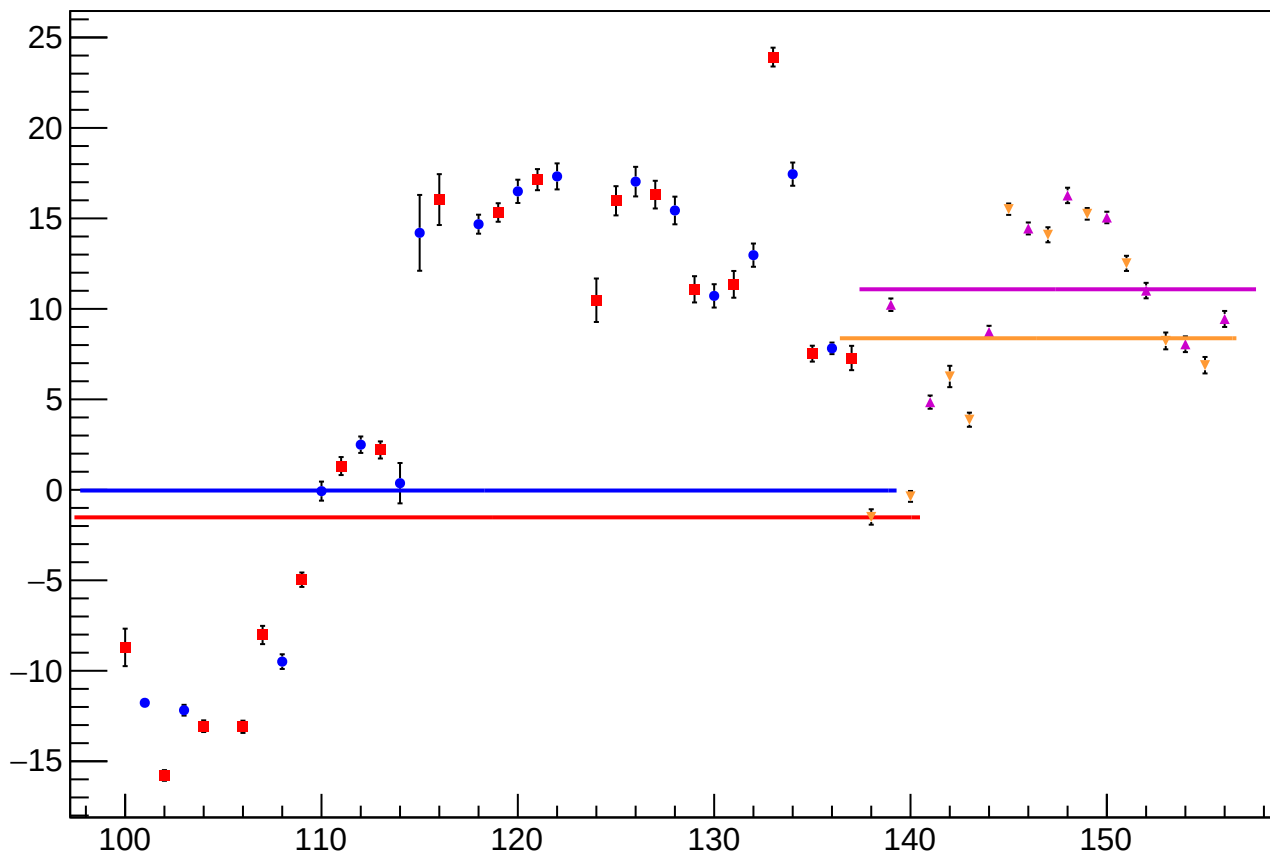
Right: 1.190 $\pm$ 0.080 χ^2/NDF : 19741.8/34

In: 3.530 $\pm$ 0.071 χ^2/NDF :13786.1/24

Out: 3.740 $\pm$ 0.068 χ^2/NDF :11918.6/28

All: 3.639 $\pm$ 0.049 χ^2/NDF : 25709.4/53

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: 8.377 ± 0.122 χ^2/NDF : 2797.1/9

Right Out: -1.521 ± 0.115 χ^2/NDF : 12130.2/18

Left In: 11.083 ± 0.124 χ^2/NDF : 813.2/8

Left: 9.709 ± 0.087 χ^2/NDF : 3850.7/18

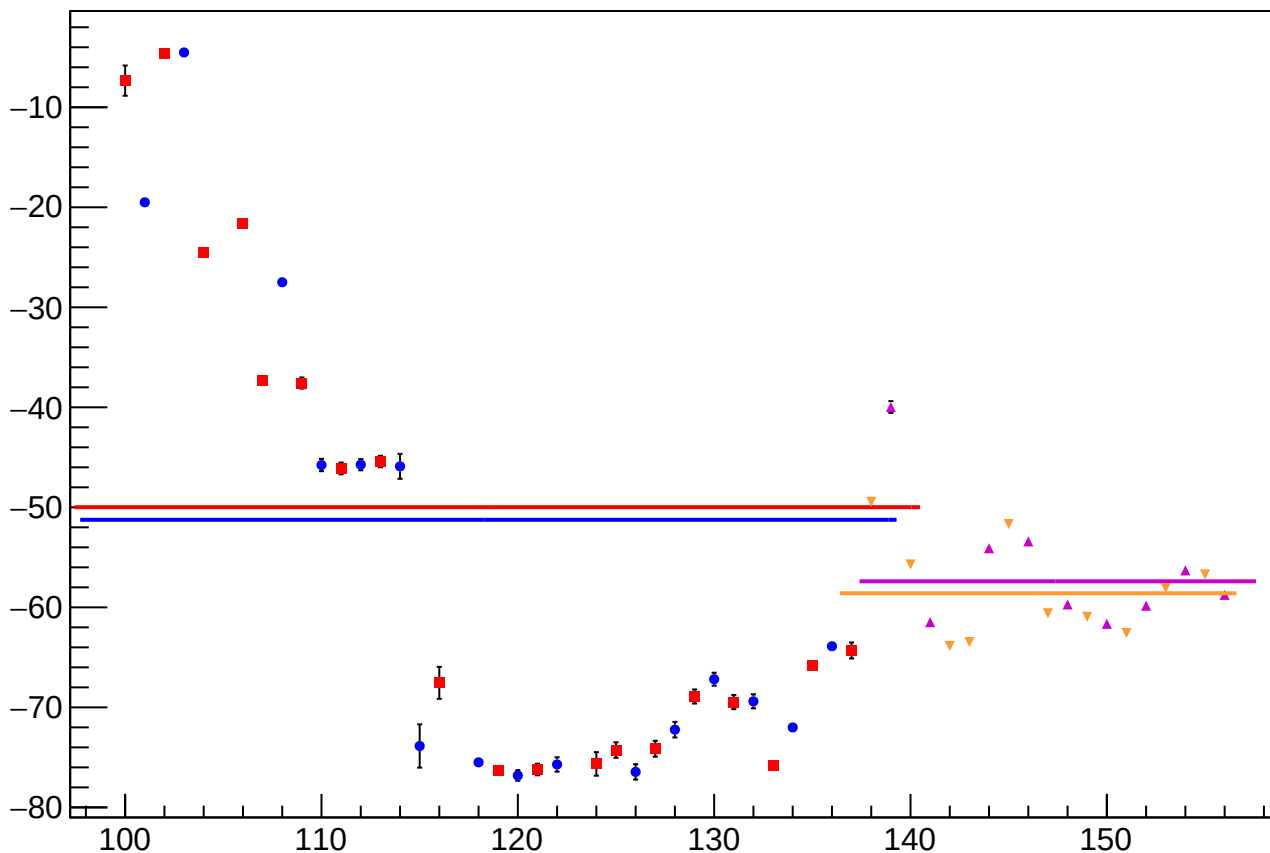
Right: -0.807 ± 0.083 χ^2/NDF : 21484.6/34

In: 5.294 ± 0.086 χ^2/NDF : 14249.8/24

Out: 3.121 ± 0.084 χ^2/NDF : 18396.2/28

All: 4.179 ± 0.060 χ^2/NDF : 32972.8/53

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: -58.594+/-0.104 χ^2/NDF : 1712.0/9

Right Out: -49.983+/-0.131 χ^2/NDF : 33892.5/18

Left In: -57.396+/-0.107 χ^2/NDF : 1804.5/8

Left: -58.010+/-0.074 χ^2/NDF : 3581.1/18

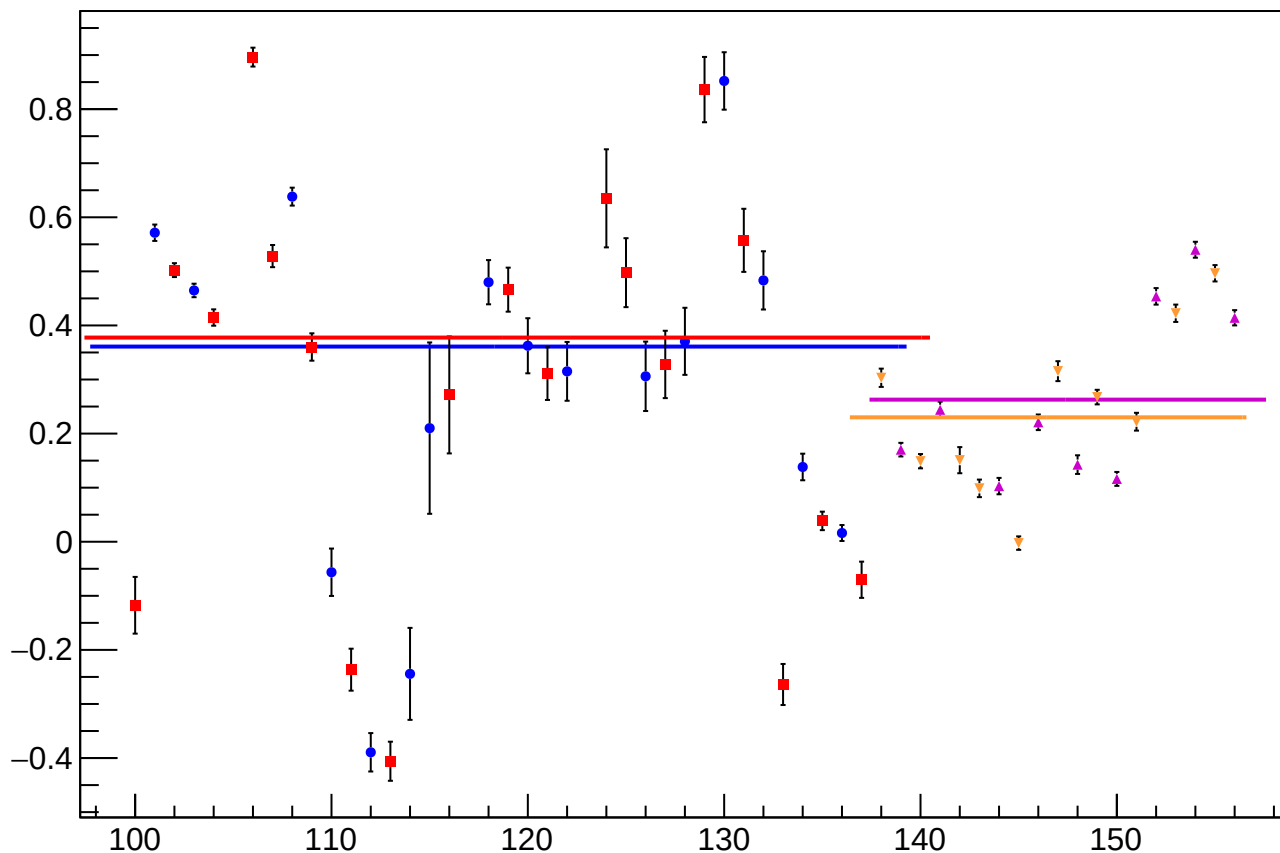
Right: -50.590+/-0.094 χ^2/NDF : 67702.6/34

In: -55.050+/-0.084 χ^2/NDF : 36839.3/24

Out: -55.255+/-0.081 χ^2/NDF : 38262.7/28

All: -55.156+/-0.058 χ^2/NDF : 75105.1/53

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: 0.230 ± 0.005 $\chi^2/\text{NDF}: 964.9/9$

Right Out: 0.378 ± 0.006 $\chi^2/\text{NDF}: 2790.5/18$

Left In: 0.263 ± 0.005 $\chi^2/\text{NDF}: 979.0/8$

Left: 0.247 ± 0.003 $\chi^2/\text{NDF}: 1966.5/18$

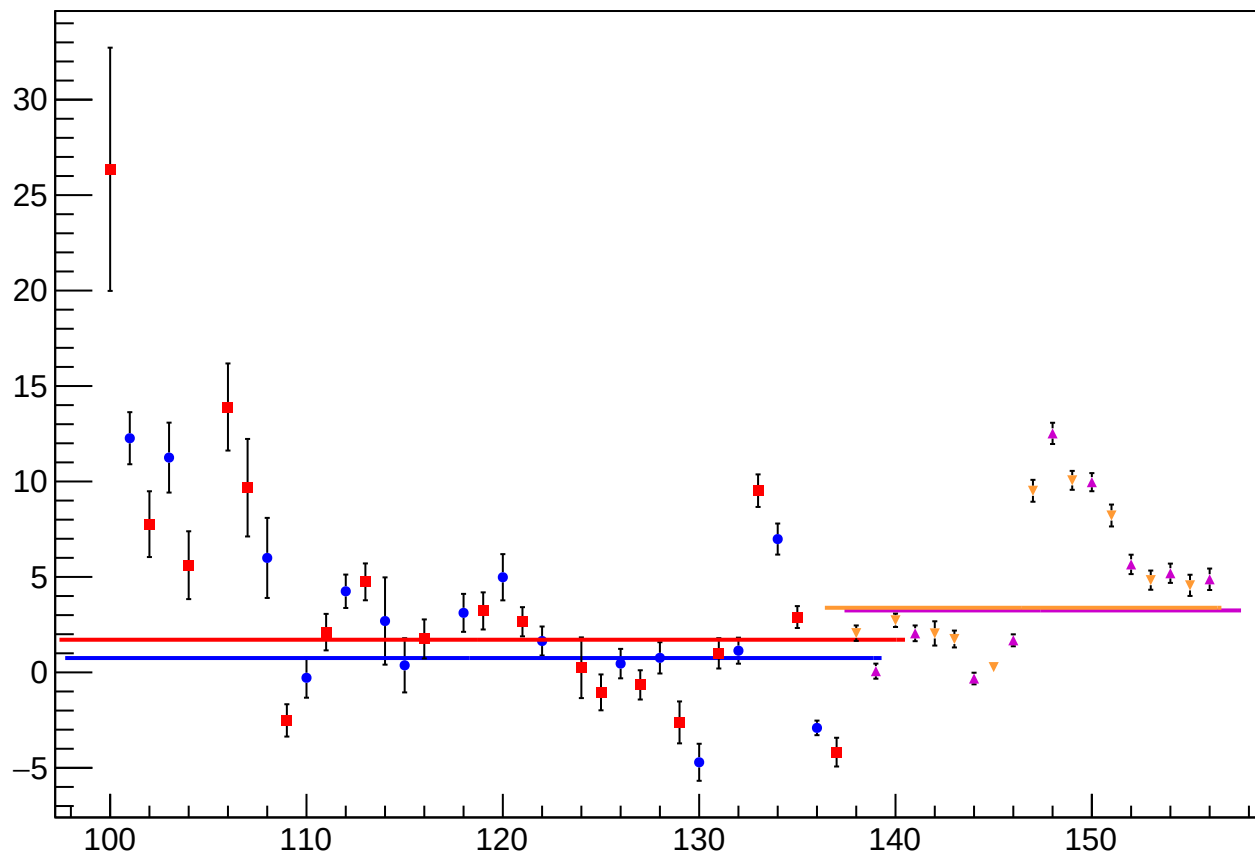
Right: 0.370 ± 0.004 $\chi^2/\text{NDF}: 4654.1/34$

In: 0.298 ± 0.004 $\chi^2/\text{NDF}: 2990.4/24$

Out: 0.288 ± 0.004 $\chi^2/\text{NDF}: 4109.5/28$

All: 0.293 ± 0.003 $\chi^2/\text{NDF}: 7103.7/53$

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.752 ± 0.212 $\chi^2/\text{NDF}: 330.1/15$

Left Out: 3.385 ± 0.137 $\chi^2/\text{NDF}: 551.3/9$

Right Out: 1.710 ± 0.223 $\chi^2/\text{NDF}: 293.8/18$

Left In: 3.245 ± 0.139 $\chi^2/\text{NDF}: 759.5/8$

Left: 3.316 ± 0.097 $\chi^2/\text{NDF}: 1311.3/18$

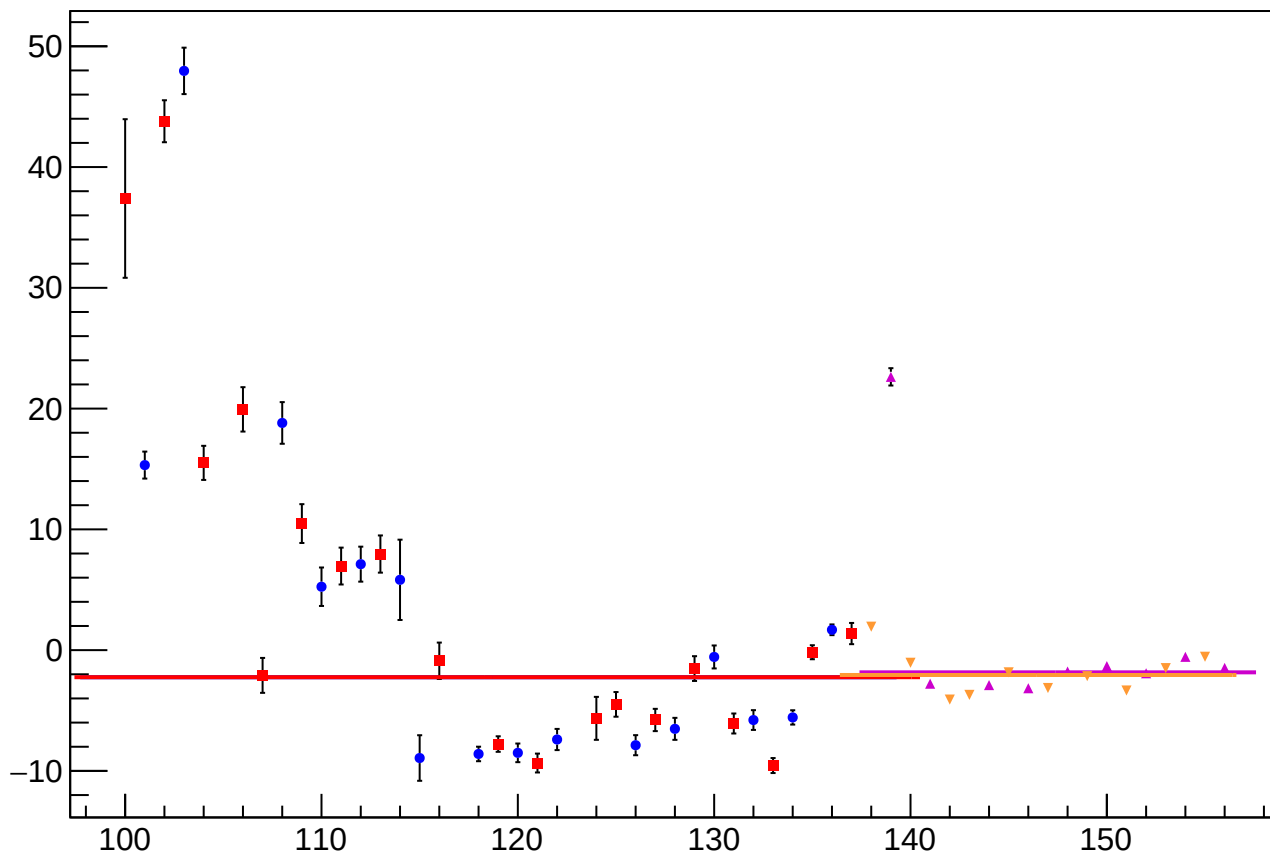
Right: 1.208 ± 0.154 $\chi^2/\text{NDF}: 633.6/34$

In: 2.499 ± 0.116 $\chi^2/\text{NDF}: 1186.2/24$

Out: 2.928 ± 0.116 $\chi^2/\text{NDF}: 886.2/28$

All: 2.713 ± 0.082 $\chi^2/\text{NDF}: 2079.2/53$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.245 ± 0.215 χ^2/NDF : 1572.5/15

Left Out: -2.058 ± 0.097 χ^2/NDF : 217.4/9

Right Out: -2.242 ± 0.229 χ^2/NDF : 1555.6/18

Left In: -1.839 ± 0.096 χ^2/NDF : 1257.8/8

Left: -1.947 ± 0.068 χ^2/NDF : 1477.7/18

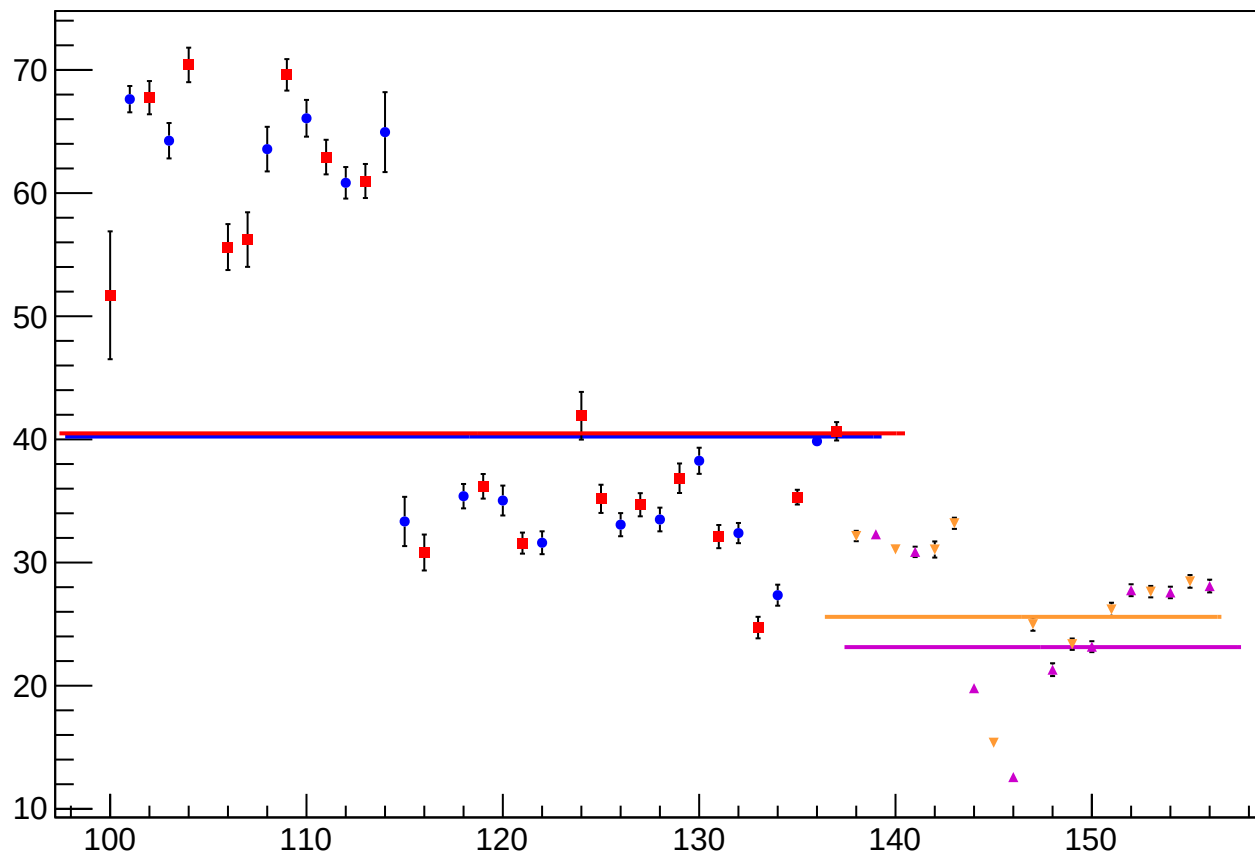
Right: -2.244 ± 0.157 χ^2/NDF : 3128.1/34

In: -1.907 ± 0.088 χ^2/NDF : 2833.2/24

Out: -2.086 ± 0.090 χ^2/NDF : 1773.6/28

All: -1.994 ± 0.063 χ^2/NDF : 4608.9/53

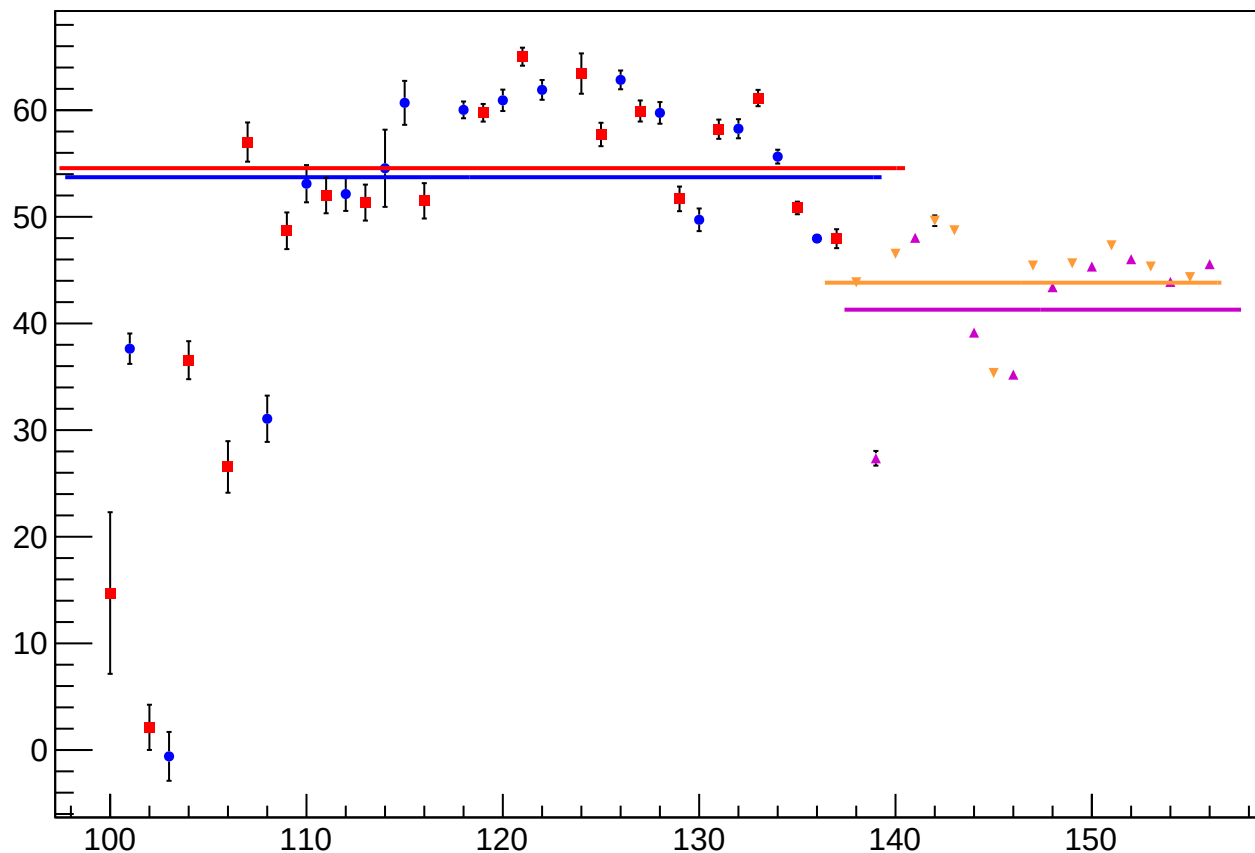
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.232 $\pm$ 0.231 χ^2 /NDF: 2291.1/15
 Left Out: 25.590 $\pm$ 0.136 χ^2 /NDF:2313.7/9
 Right Out: 40.490 $\pm$ 0.250 χ^2 /NDF: 2698.0/18
 Left In: 23.134 $\pm$ 0.136 χ^2 /NDF:2453.9/8

Left: 24.362 $\pm$ 0.096 χ^2 /NDF: 4930.4/18
 Right: 40.351 $\pm$ 0.170 χ^2 /NDF: 4989.7/34
 In: 27.528 $\pm$ 0.117 χ^2 /NDF:8800.2/24
 Out: 28.991 $\pm$ 0.120 χ^2 /NDF:7743.5/28
 All: 28.246 $\pm$ 0.084 χ^2 /NDF: 16619.9/53

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.715 $\pm$ 0.239 χ^2 /NDF: 1362.7/15

Left Out: 43.824 $\pm$ 0.117 χ^2 /NDF:1680.2/9

Right Out: 54.565 $\pm$ 0.256 χ^2 /NDF: 1342.6/18

Left In: 41.292 $\pm$ 0.116 χ^2 /NDF:1921.8/8

Left: 42.544 $\pm$ 0.082 χ^2 /NDF: 3839.0/18

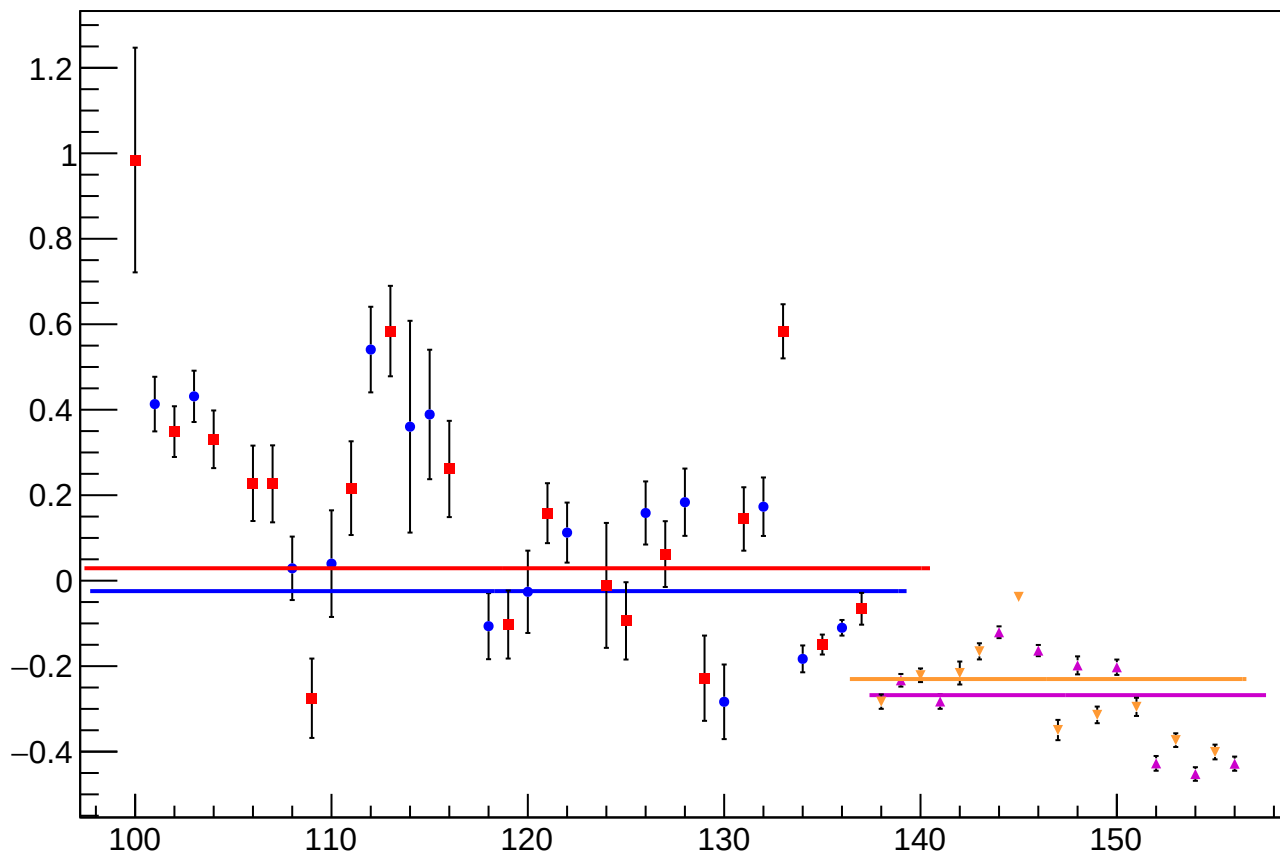
Right: 54.111 $\pm$ 0.175 χ^2 /NDF: 2711.2/34

In: 43.647 $\pm$ 0.104 χ^2 /NDF:5473.9/24

Out: 45.676 $\pm$ 0.106 χ^2 /NDF:4478.2/28

All: 44.640 $\pm$ 0.074 χ^2 /NDF: 10138.0/53

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: -0.230 ± 0.005 χ^2/NDF : 570.8/9

Right Out: 0.029 ± 0.014 χ^2/NDF : 276.4/18

Left In: -0.268 ± 0.005 χ^2/NDF : 521.2/8

Left: -0.249 ± 0.004 χ^2/NDF : 1116.6/18

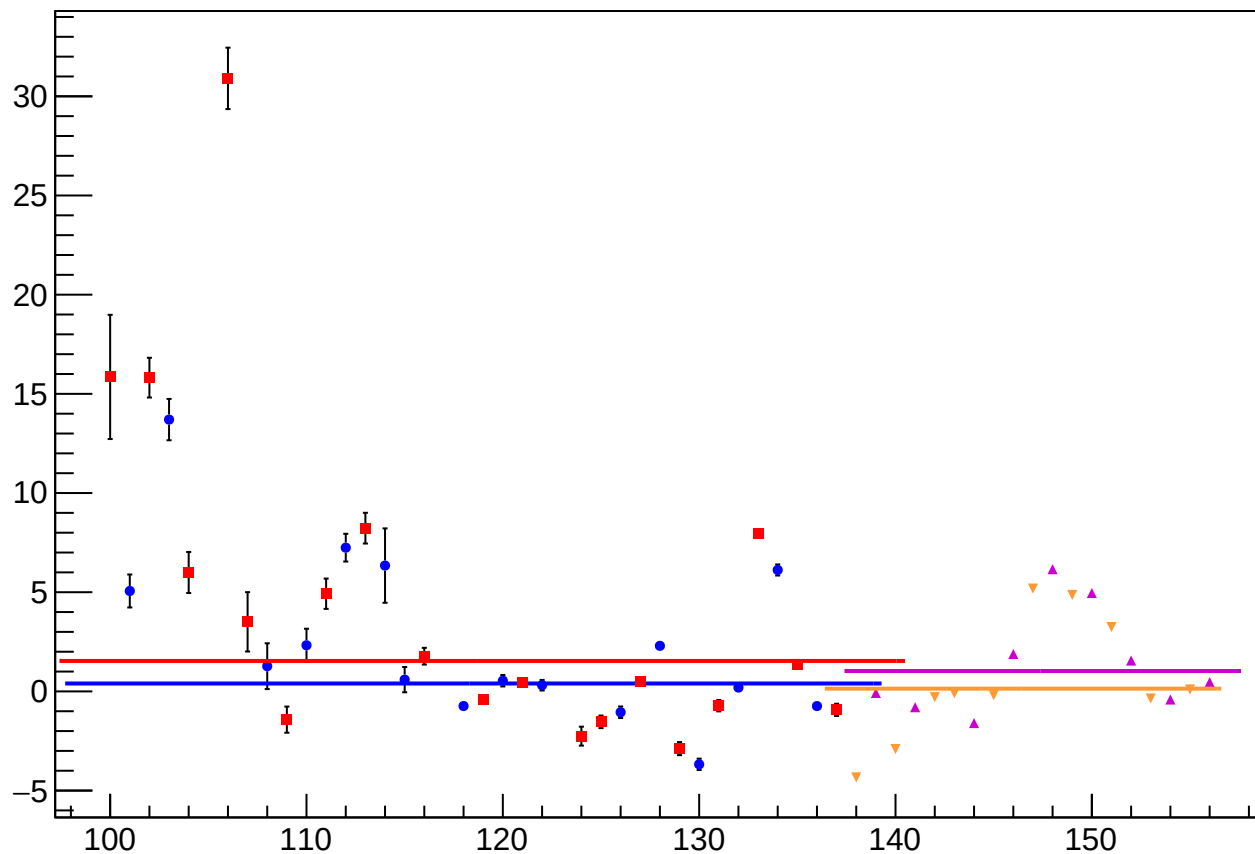
Right: -0.001 ± 0.010 χ^2/NDF : 513.9/34

In: -0.232 ± 0.005 χ^2/NDF : 1059.0/24

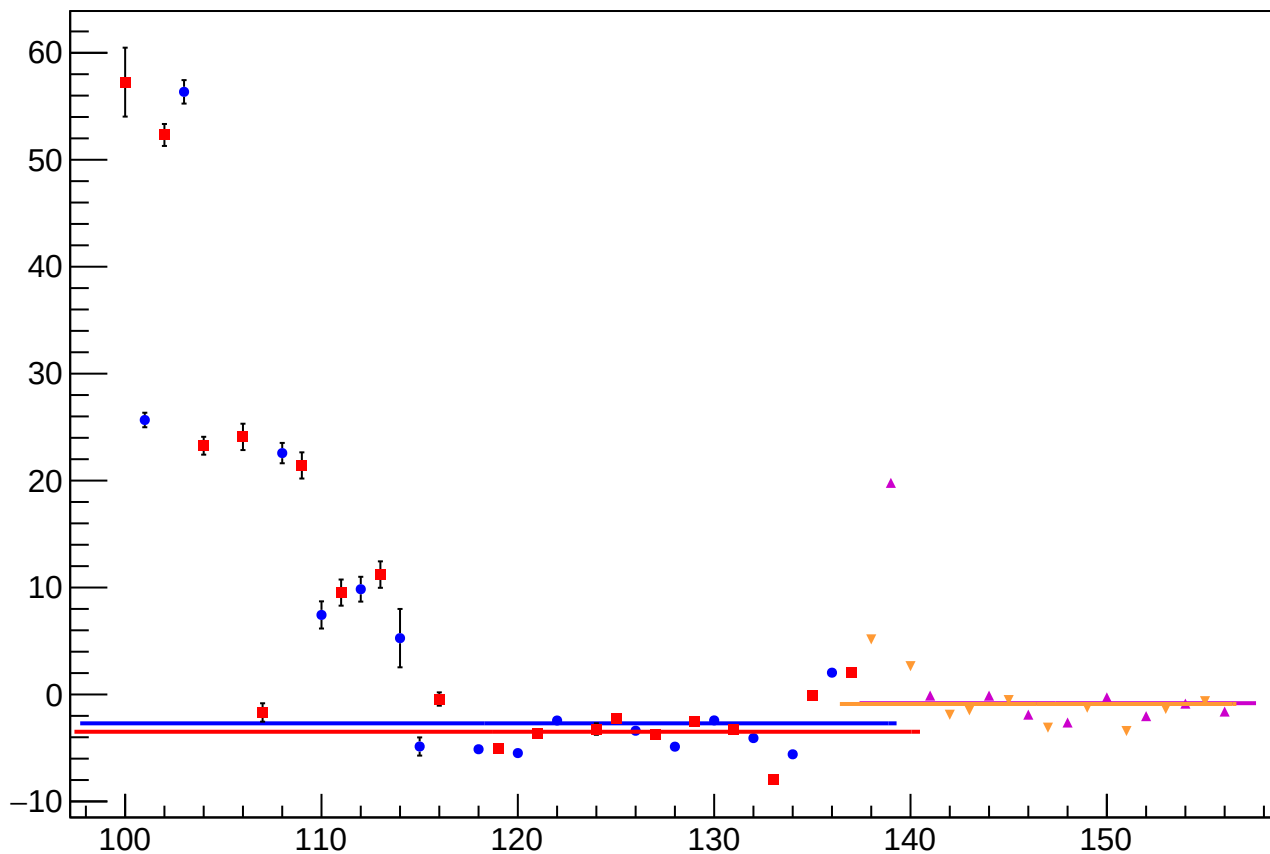
Out: -0.197 ± 0.005 χ^2/NDF : 1136.5/28

All: -0.215 ± 0.004 χ^2/NDF : 2219.5/53

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.699 ± 0.071 χ^2/NDF : 7103.8/15

Left Out: -0.889 ± 0.035 χ^2/NDF : 3685.6/9

Right Out: -3.486 ± 0.071 χ^2/NDF : 7159.9/18

Left In: -0.814 ± 0.034 χ^2/NDF : 7437.9/8

Left: -0.851 ± 0.025 χ^2/NDF : 11125.9/18

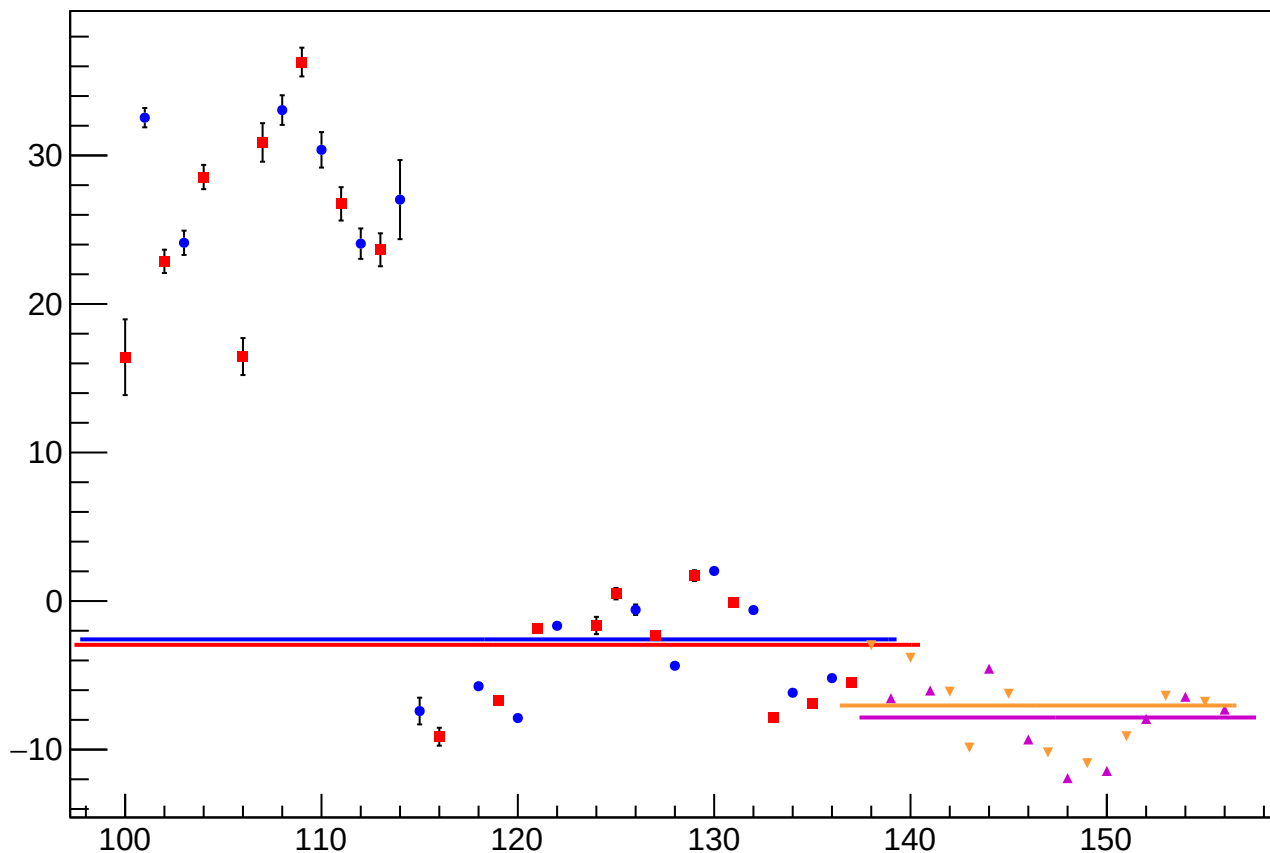
Right: -3.091 ± 0.050 χ^2/NDF : 14325.4/34

In: -1.176 ± 0.031 χ^2/NDF : 15115.2/24

Out: -1.405 ± 0.032 χ^2/NDF : 11921.8/28

All: -1.288 ± 0.022 χ^2/NDF : 27063.6/53

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: -7.033 ± 0.049 χ^2/NDF : 2742.5/9

Right Out: -2.948 ± 0.085 χ^2/NDF : 8196.4/18

Left In: -7.840 ± 0.049 χ^2/NDF : 2504.5/8

Left: -7.445 ± 0.035 χ^2/NDF : 5382.6/18

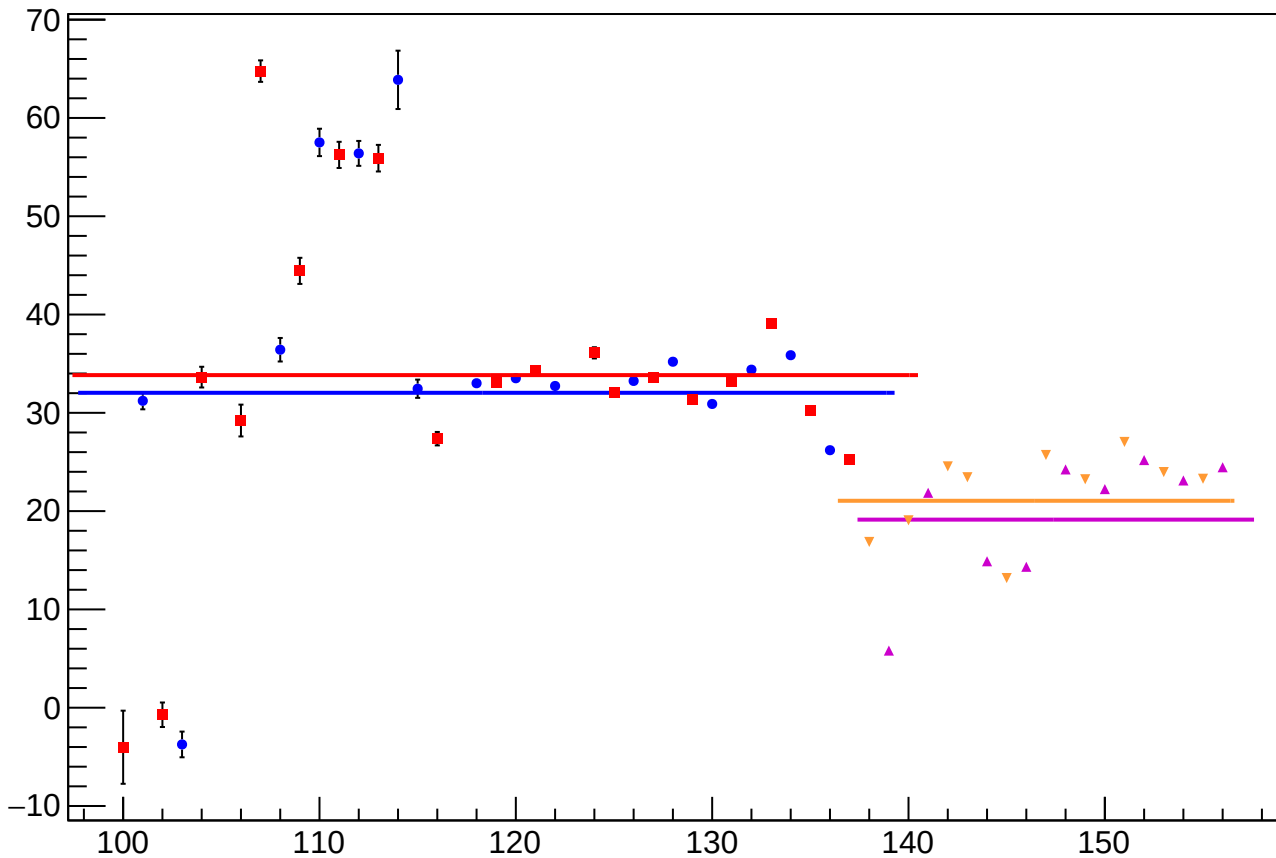
Right: -2.761 ± 0.059 χ^2/NDF : 16365.7/34

In: -6.503 ± 0.042 χ^2/NDF : 13651.0/24

Out: -5.999 ± 0.043 χ^2/NDF : 12666.4/28

All: -6.256 ± 0.030 χ^2/NDF : 26388.3/53

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.038 $\pm$ 0.081 χ^2 /NDF: 3255.9/15

Left Out: 21.052 $\pm$ 0.042 χ^2 /NDF:12855.3/9

Right Out: 33.837 $\pm$ 0.082 χ^2 /NDF: 4237.8/18

Left In: 19.134 $\pm$ 0.041 χ^2 /NDF:14136.2/8

Left: 20.069 $\pm$ 0.030 χ^2 /NDF: 28038.8/18

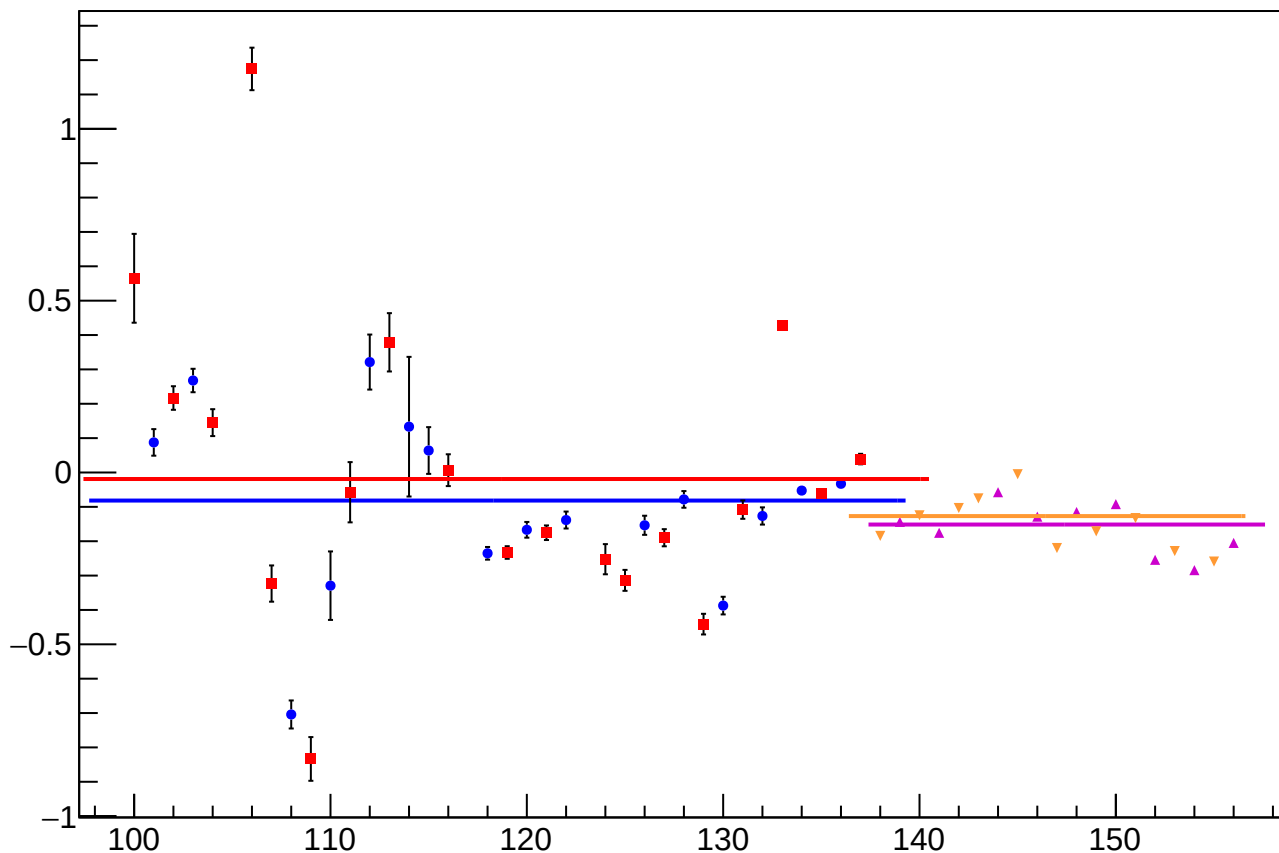
Right: 32.934 $\pm$ 0.058 χ^2 /NDF: 7737.6/34

In: 21.791 $\pm$ 0.037 χ^2 /NDF:37403.1/24

Out: 23.771 $\pm$ 0.038 χ^2 /NDF:36411.6/28

All: 22.761 $\pm$ 0.026 χ^2 /NDF: 75226.9/53

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: -0.127 ± 0.002 χ^2/NDF : 1893.6/9

Right Out: -0.019 ± 0.005 χ^2/NDF : 2273.7/18

Left In: -0.151 ± 0.002 χ^2/NDF : 1281.9/8

Left: -0.140 ± 0.001 χ^2/NDF : 3255.4/18

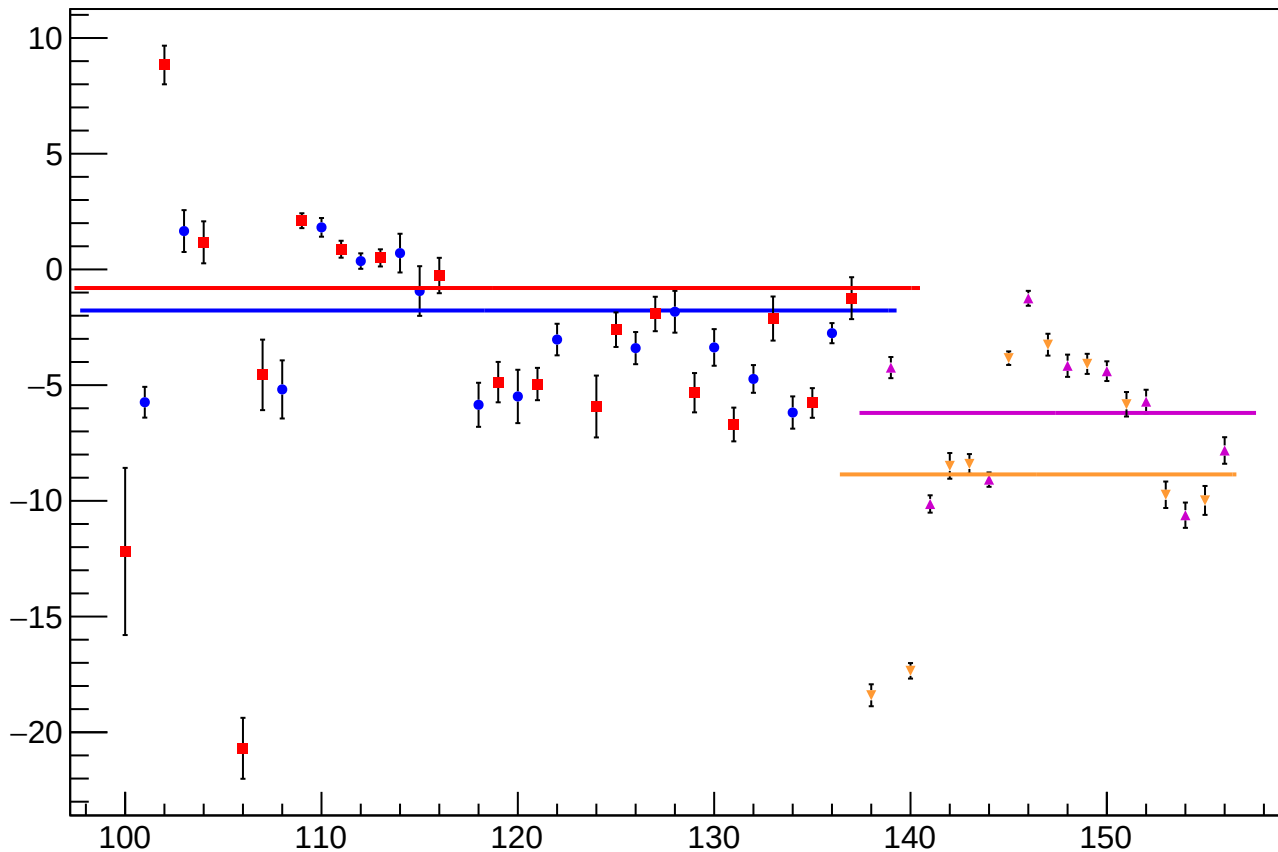
Right: -0.053 ± 0.004 χ^2/NDF : 3041.0/34

In: -0.142 ± 0.002 χ^2/NDF : 2151.7/24

Out: -0.113 ± 0.002 χ^2/NDF : 4543.1/28

All: -0.128 ± 0.001 χ^2/NDF : 6821.1/53

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: -8.858 ± 0.138 χ^2/NDF : 1639.9/9

Right Out: -0.803 ± 0.148 χ^2/NDF : 733.7/18

Left In: -6.201 ± 0.139 χ^2/NDF : 560.6/8

Left: -7.539 ± 0.098 χ^2/NDF : 2385.1/18

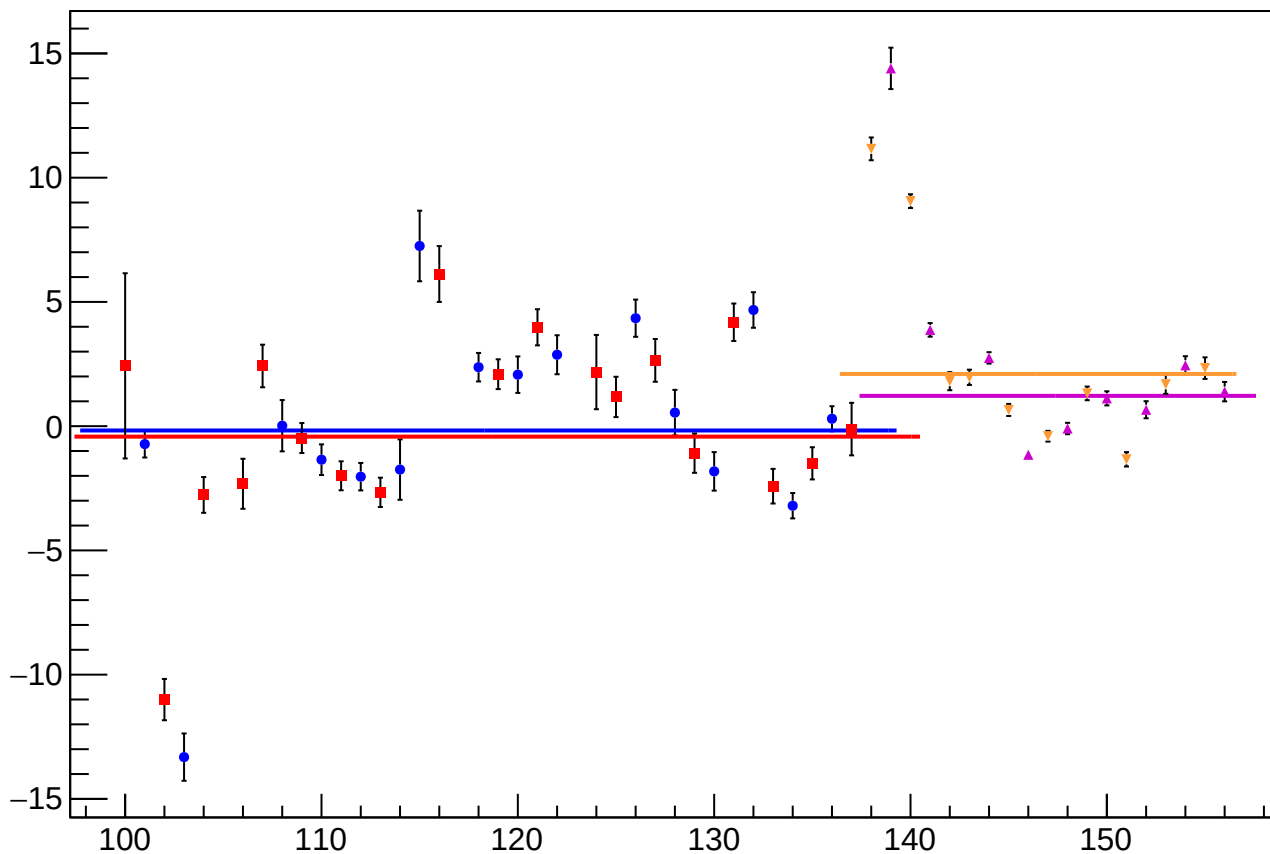
Right: -1.261 ± 0.108 χ^2/NDF : 1051.6/34

In: -4.261 ± 0.104 χ^2/NDF : 1304.1/24

Out: -5.126 ± 0.101 χ^2/NDF : 3956.5/28

All: -4.707 ± 0.072 χ^2/NDF : 5296.2/53

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: 2.101 ± 0.095 χ^2/NDF : 1340.5/9

Right Out: -0.421 ± 0.177 χ^2/NDF : 366.3/18

Left In: 1.220 ± 0.093 χ^2/NDF : 585.5/8

Left: 1.654 ± 0.067 χ^2/NDF : 1969.9/18

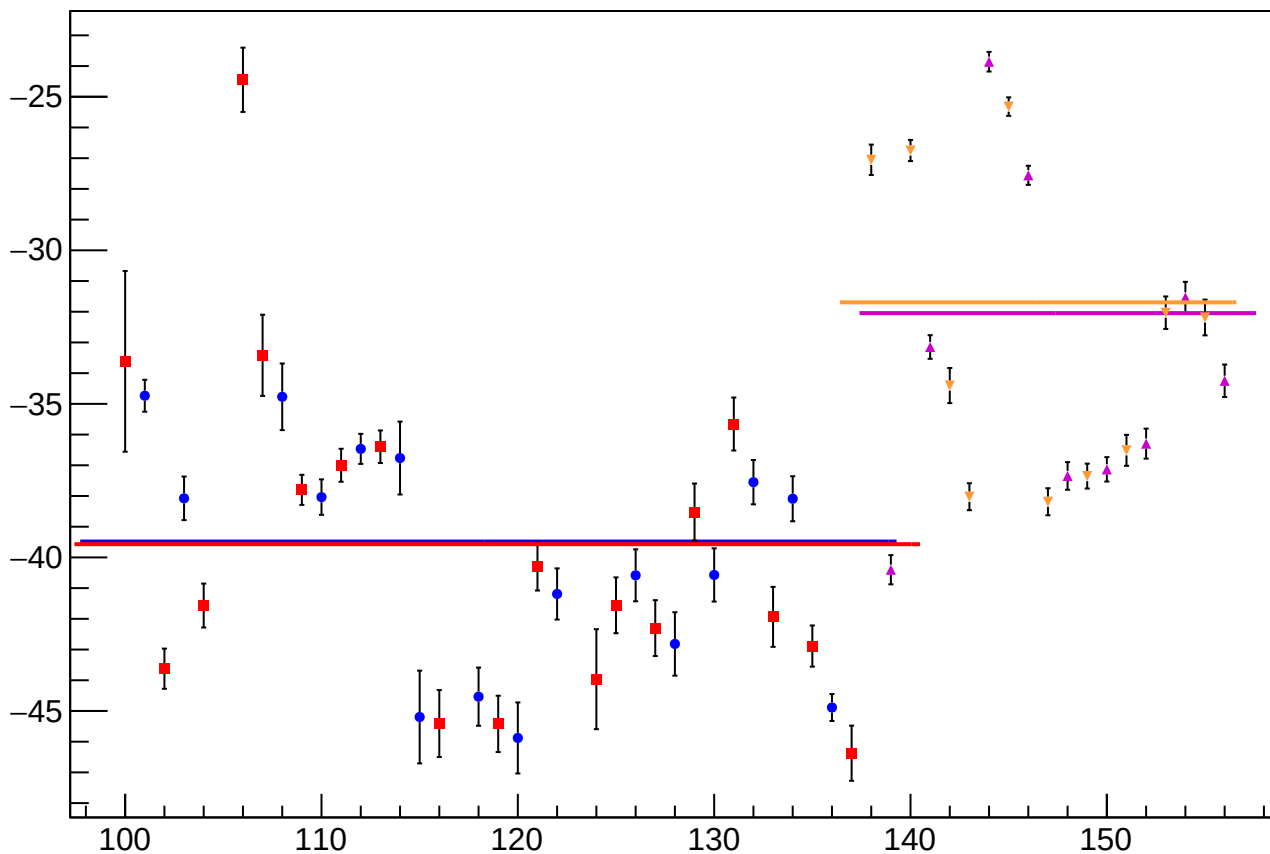
Right: -0.295 ± 0.124 χ^2/NDF : 770.4/34

In: 0.905 ± 0.082 χ^2/NDF : 1038.9/24

Out: 1.539 ± 0.084 χ^2/NDF : 1864.3/28

All: 1.217 ± 0.059 χ^2/NDF : 2932.5/53

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: -31.694 ± 0.137 χ^2/NDF : 1475.4/9

Right Out: -39.570 ± 0.181 χ^2/NDF : 553.5/18

Left In: -32.044 ± 0.136 χ^2/NDF : 1577.6/8

Left: -31.871 ± 0.096 χ^2/NDF : 3056.3/18

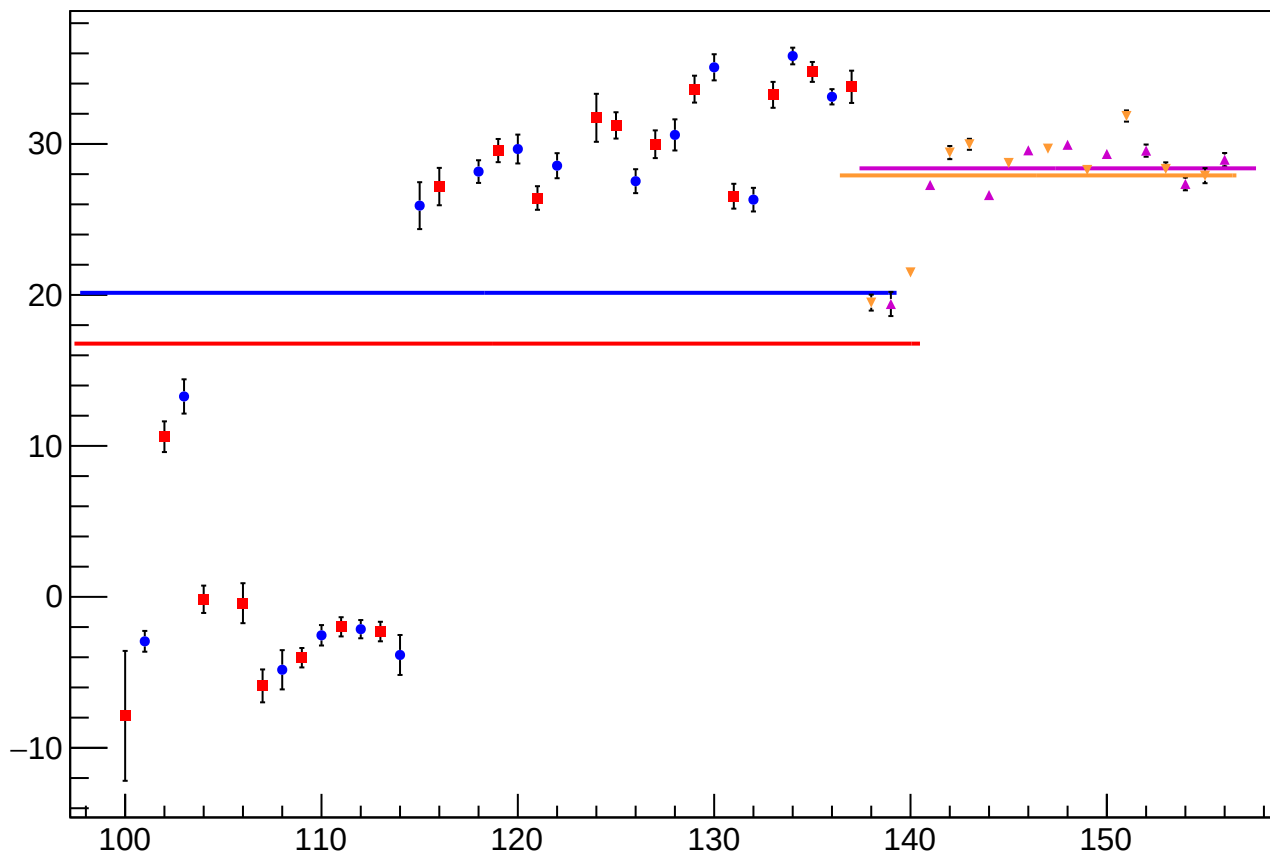
Right: -39.526 ± 0.128 χ^2/NDF : 962.9/34

In: -34.738 ± 0.108 χ^2/NDF : 3073.7/24

Out: -34.558 ± 0.109 χ^2/NDF : 3233.9/28

All: -34.649 ± 0.077 χ^2/NDF : 6308.9/53

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: 27.917 $\pm$ 0.115 χ^2 /NDF:829.7/9

Right Out: 16.775 $\pm$ 0.200 χ^2 /NDF: 6739.1/18

Left In: 28.385 $\pm$ 0.113 χ^2 /NDF:254.1/8

Left: 28.155 $\pm$ 0.081 χ^2 /NDF: 1092.2/18

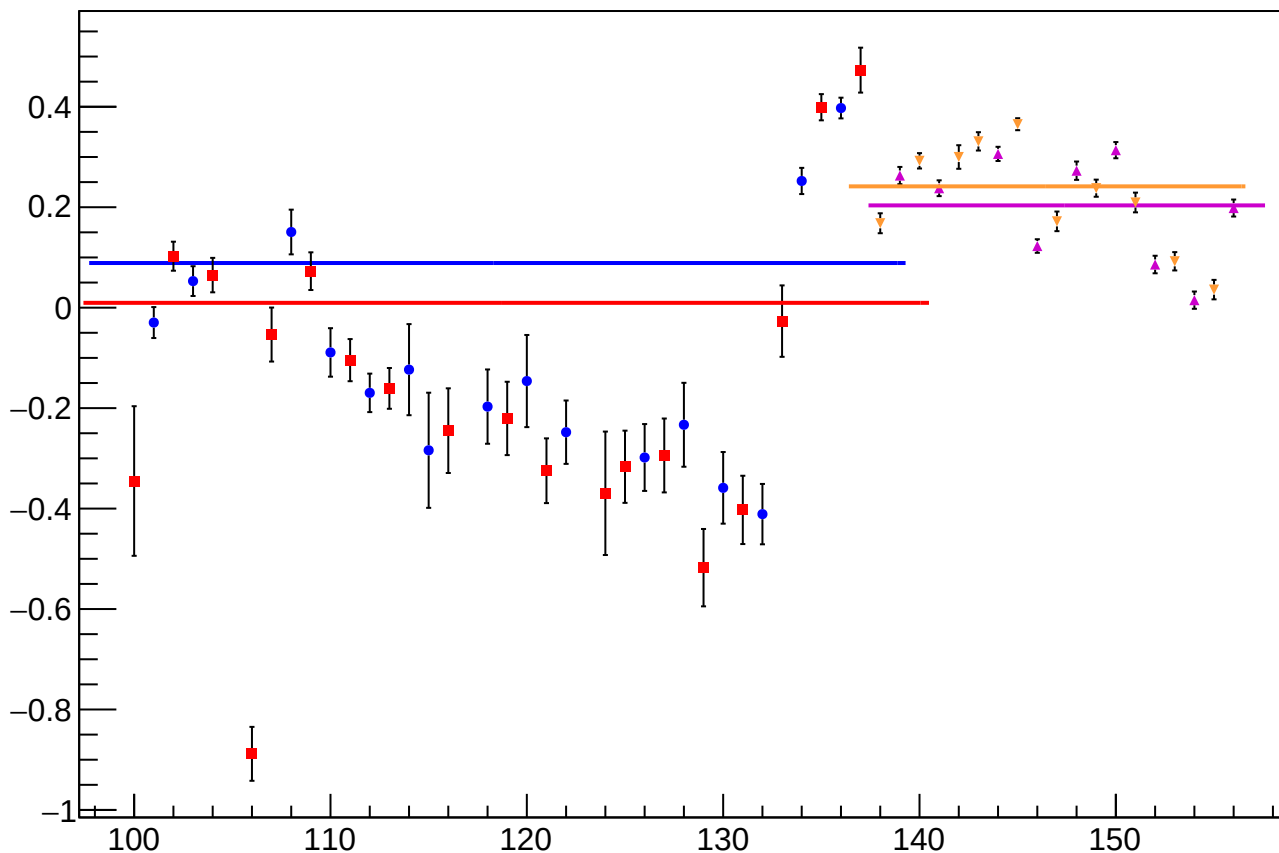
Right: 18.500 $\pm$ 0.139 χ^2 /NDF: 13569.2/34

In: 26.299 $\pm$ 0.098 χ^2 /NDF:8278.3/24

Out: 25.131 $\pm$ 0.100 χ^2 /NDF:9903.3/28

All: 25.727 $\pm$ 0.070 χ^2 /NDF: 18251.3/53

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: 0.242 $\pm$ 0.006 χ^2 /NDF:357.0/9

Right Out: 0.010 $\pm$ 0.011 χ^2 /NDF: 834.8/18

Left In: 0.204 $\pm$ 0.005 χ^2 /NDF:331.7/8

Left: 0.222 $\pm$ 0.004 χ^2 /NDF: 713.1/18

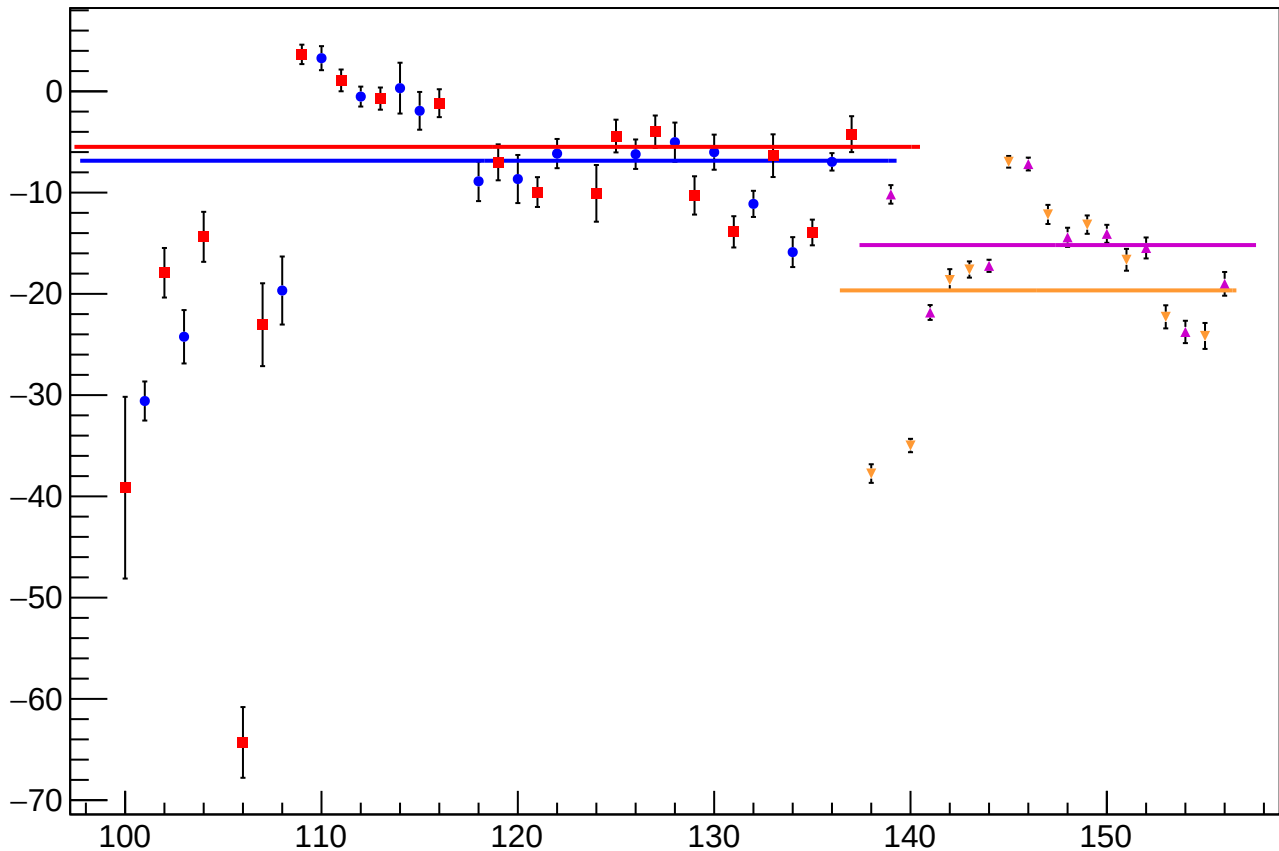
Right: 0.052 $\pm$ 0.008 χ^2 /NDF: 1426.1/34

In: 0.180 $\pm$ 0.005 χ^2 /NDF:991.7/24

Out: 0.195 $\pm$ 0.005 χ^2 /NDF:1546.2/28

All: 0.187 $\pm$ 0.003 χ^2 /NDF: 2543.0/53

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: -19.659 ± 0.272 χ^2/NDF : 1558.1/9

Right Out: -5.483 ± 0.369 χ^2/NDF : 606.5/18

Left In: -15.182 ± 0.276 χ^2/NDF : 356.0/8

Left: -17.447 ± 0.194 χ^2/NDF : 2047.6/18

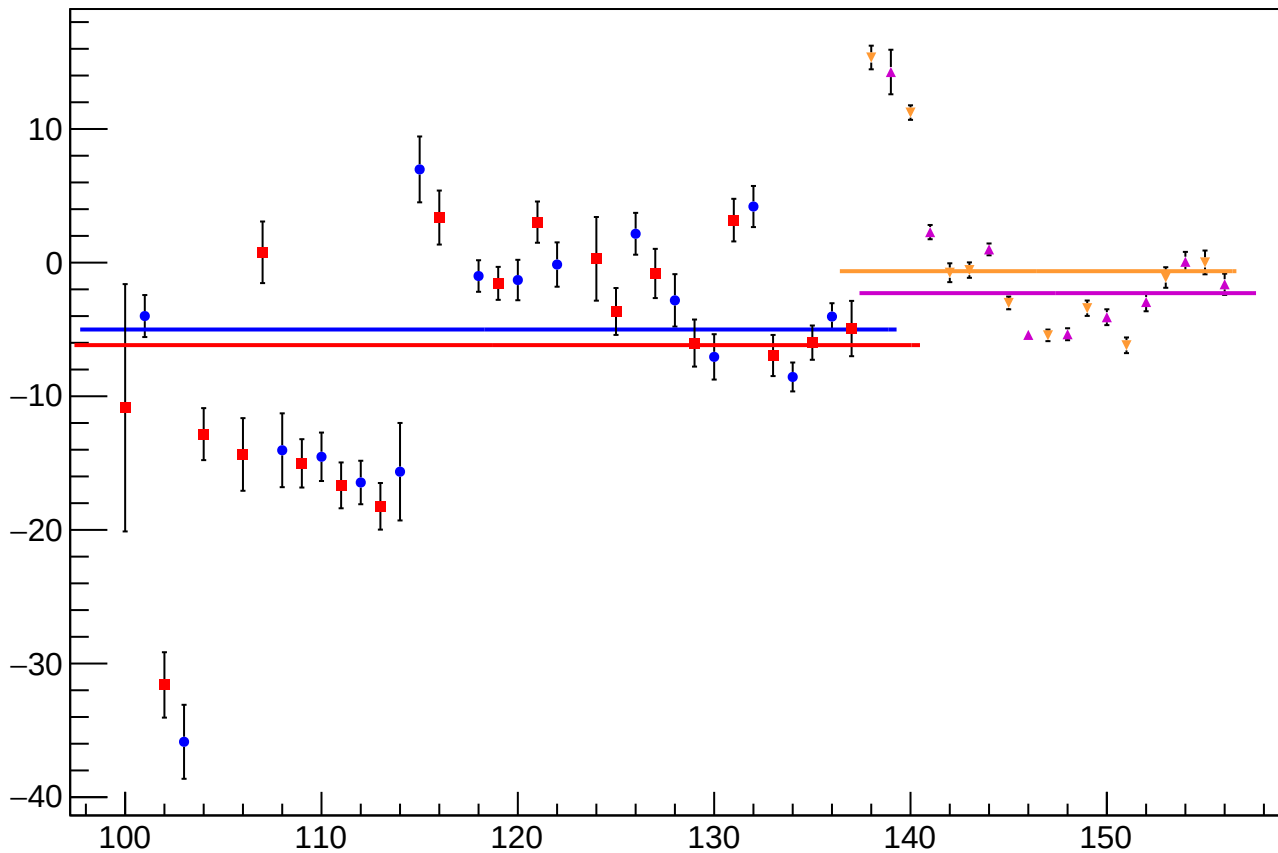
Right: -6.155 ± 0.263 χ^2/NDF : 1003.4/34

In: -12.268 ± 0.222 χ^2/NDF : 1065.8/24

Out: -14.660 ± 0.219 χ^2/NDF : 3120.1/28

All: -13.480 ± 0.156 χ^2/NDF : 4244.7/53

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: -0.640 ± 0.188 χ^2/NDF : 1063.2/9

Right Out: -6.173 ± 0.417 χ^2/NDF : 369.1/18

Left In: -2.283 ± 0.185 χ^2/NDF : 363.6/8

Left: -1.477 ± 0.132 χ^2/NDF : 1465.7/18

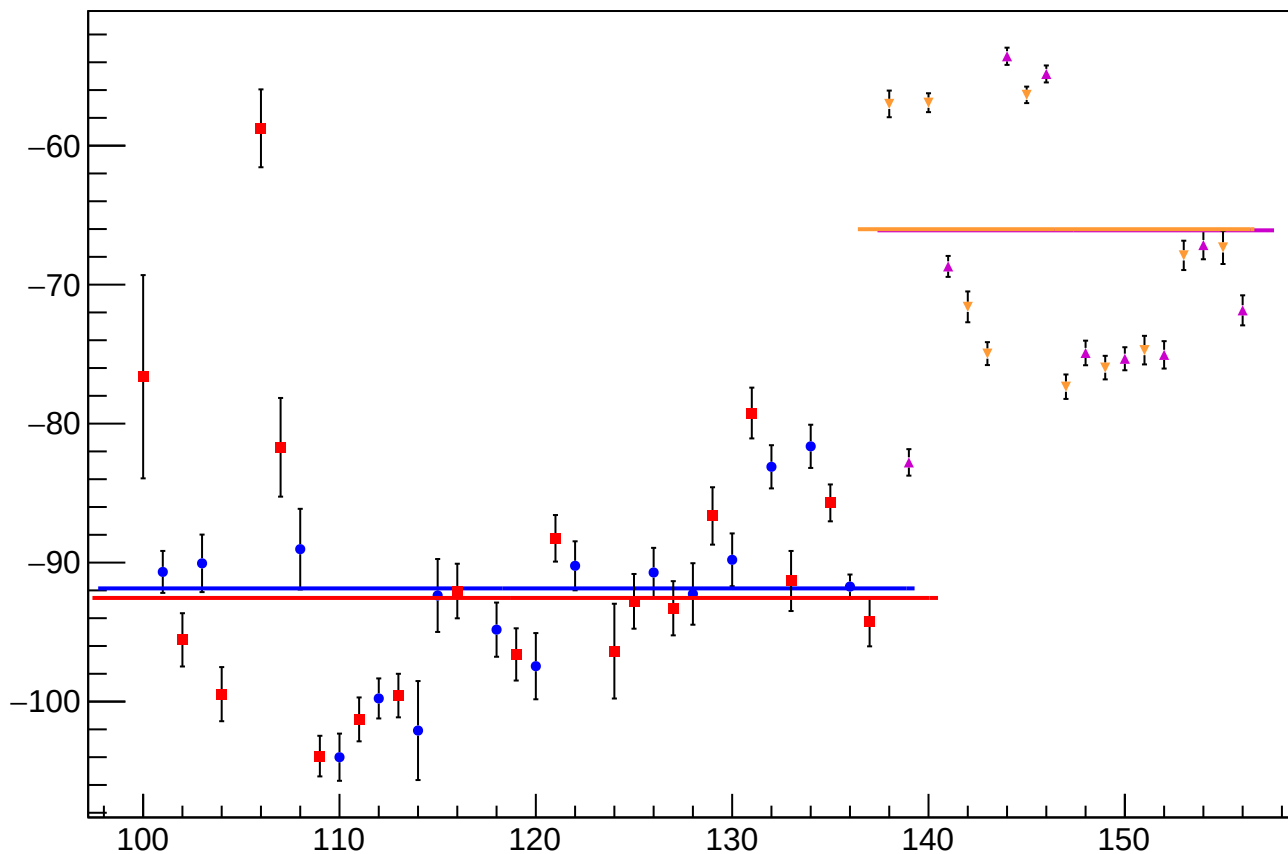
Right: -5.558 ± 0.287 χ^2/NDF : 715.0/34

In: -2.770 ± 0.167 χ^2/NDF : 744.2/24

Out: -1.577 ± 0.171 χ^2/NDF : 1578.9/28

All: -2.188 ± 0.120 χ^2/NDF : 2347.9/53

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: -66.012 ± 0.271 χ^2/NDF : 1057.0/9

Right Out: -92.544 ± 0.439 χ^2/NDF : 387.8/18

Left In: -66.092 ± 0.270 χ^2/NDF : 1402.8/8

Left: -66.052 ± 0.191 χ^2/NDF : 2459.8/18

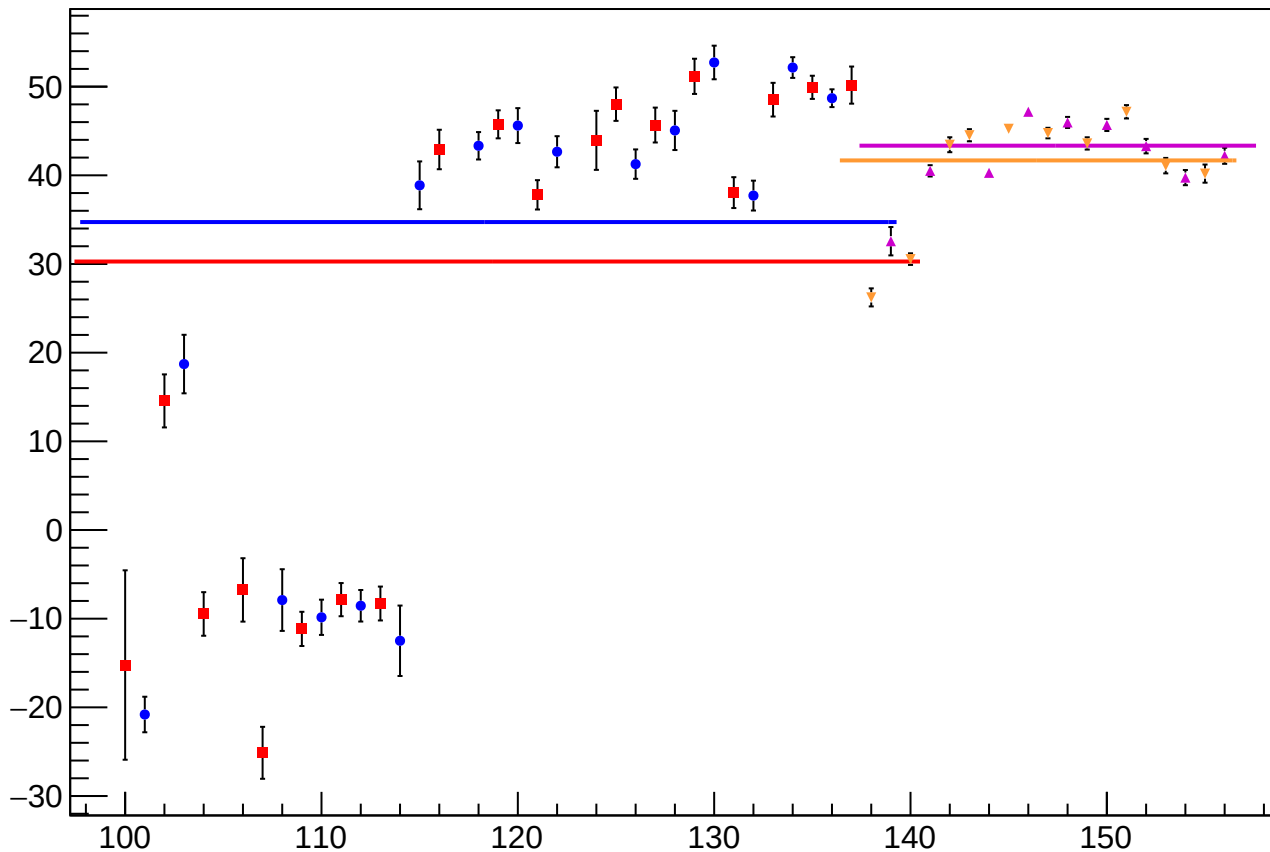
Right: -92.188 ± 0.305 χ^2/NDF : 566.3/34

In: -73.523 ± 0.228 χ^2/NDF : 4206.9/24

Out: -73.328 ± 0.231 χ^2/NDF : 4087.2/28

All: -73.427 ± 0.162 χ^2/NDF : 8294.5/53

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: 41.680 $\pm$ 0.229 χ^2 /NDF:672.8/9

Right Out: 30.279 $\pm$ 0.467 χ^2 /NDF: 2911.2/18

Left In: 43.343 $\pm$ 0.224 χ^2 /NDF:214.5/8

Left: 42.526 $\pm$ 0.160 χ^2 /NDF: 914.2/18

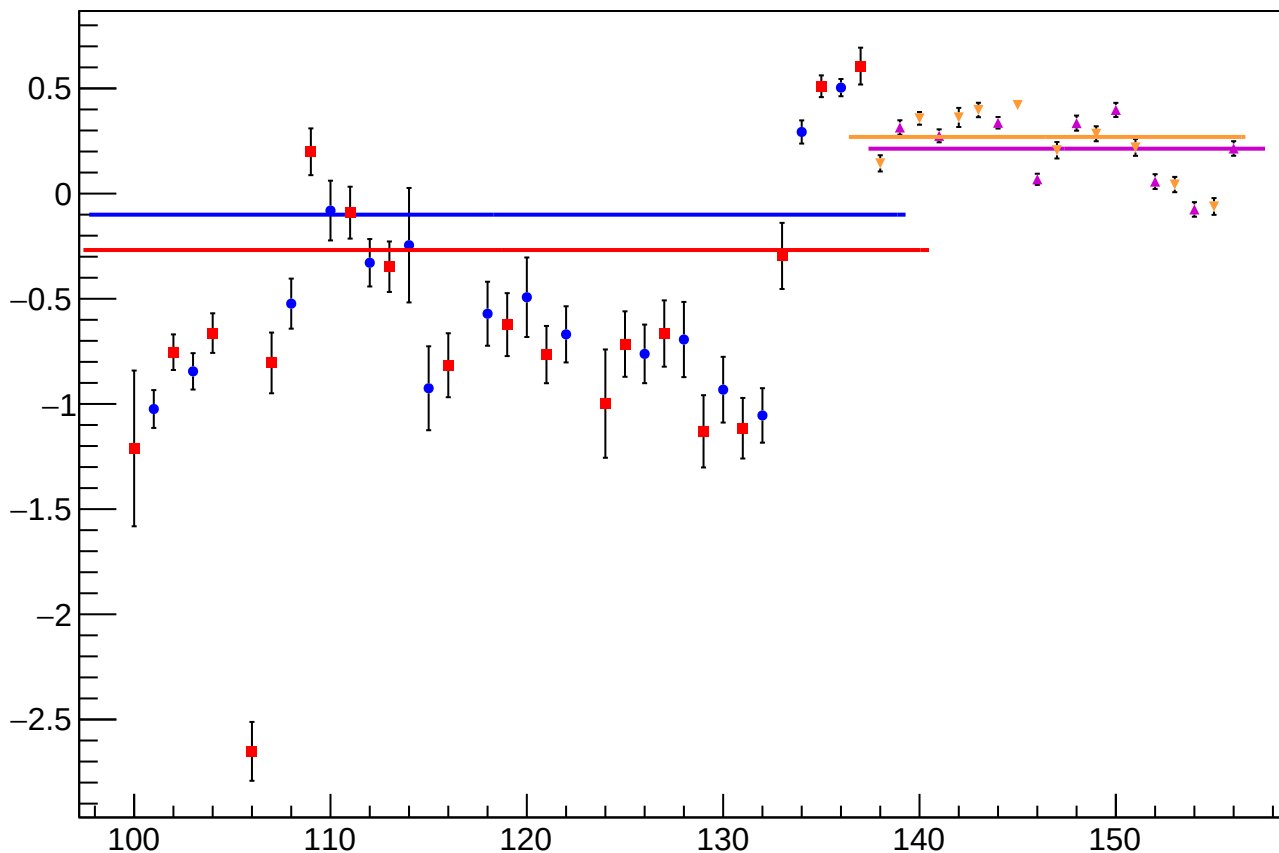
Right: 32.627 $\pm$ 0.321 χ^2 /NDF: 5768.2/34

In: 41.577 $\pm$ 0.200 χ^2 /NDF:3325.7/24

Out: 39.478 $\pm$ 0.205 χ^2 /NDF:4064.6/28

All: 40.554 $\pm$ 0.143 χ^2 /NDF: 7443.9/53

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: 0.269 ± 0.011 χ^2/NDF : 190.8/9

Right Out: -0.268 ± 0.026 χ^2/NDF : 822.4/18

Left In: 0.214 ± 0.011 χ^2/NDF : 193.2/8

Left: 0.241 ± 0.008 χ^2/NDF : 397.4/18

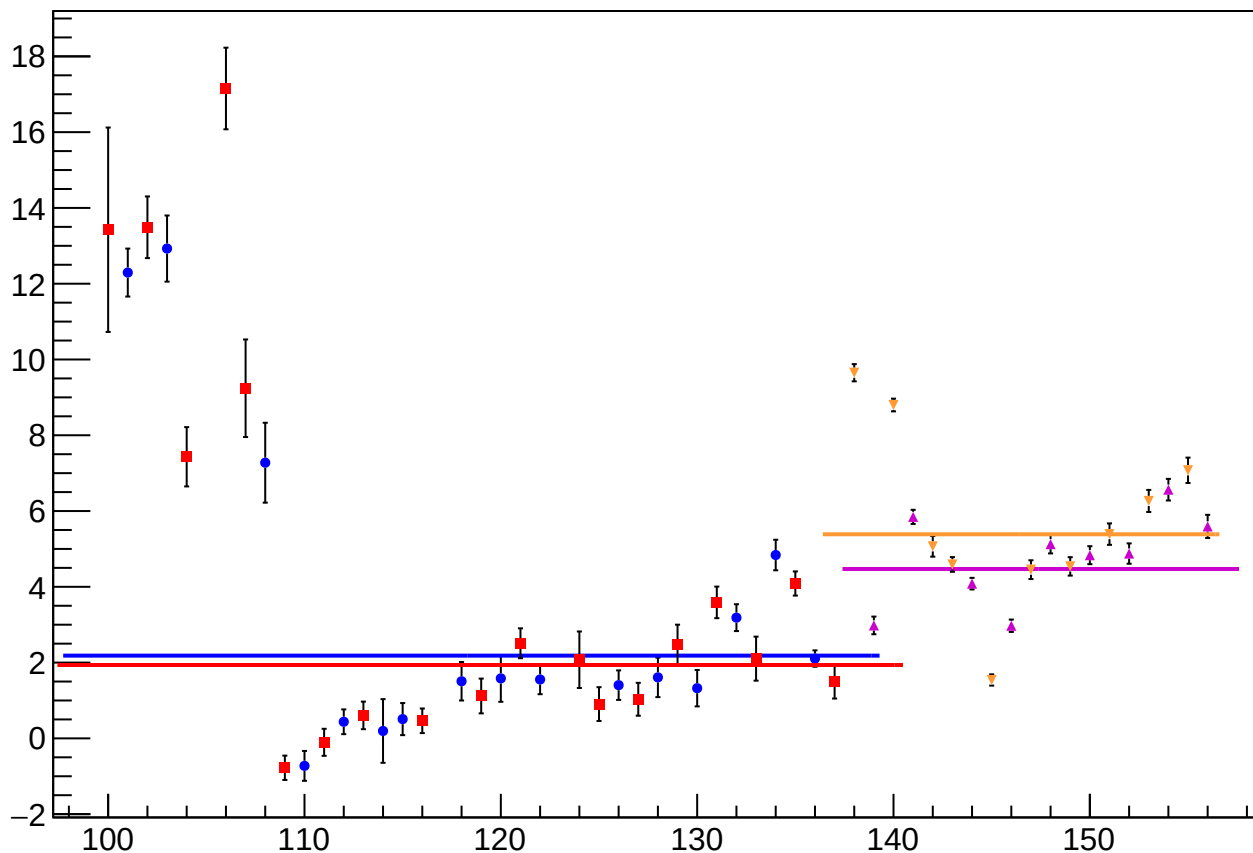
Right: -0.176 ± 0.018 χ^2/NDF : 1476.0/34

In: 0.162 ± 0.010 χ^2/NDF : 967.1/24

Out: 0.190 ± 0.010 χ^2/NDF : 1368.6/28

All: 0.176 ± 0.007 χ^2/NDF : 2339.8/53

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: 5.387 ± 0.070 χ^2/NDF : 1513.3/9

Right Out: 1.936 ± 0.105 χ^2/NDF : 717.1/18

Left In: 4.471 ± 0.071 χ^2/NDF : 265.0/8

Left: 4.938 ± 0.050 χ^2/NDF : 1863.1/18

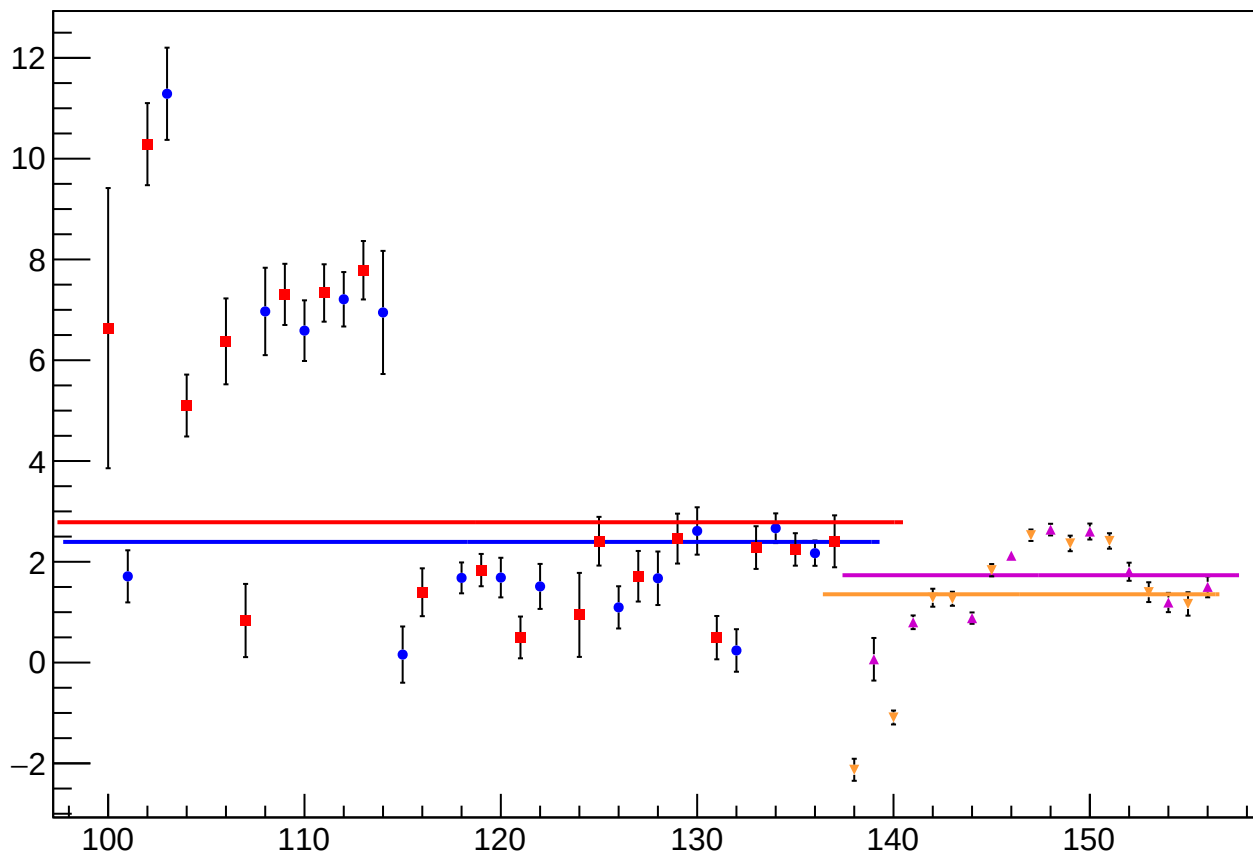
Right: 2.061 ± 0.074 χ^2/NDF : 1319.2/34

In: 3.754 ± 0.059 χ^2/NDF : 1190.2/24

Out: 4.341 ± 0.058 χ^2/NDF : 2976.0/28

All: 4.051 ± 0.041 χ^2/NDF : 4216.6/53

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.394 $\pm$ 0.108 χ^2 /NDF: 333.9/15

Left Out: 1.355 $\pm$ 0.048 χ^2 /NDF: 779.9/9

Right Out: 2.785 $\pm$ 0.116 χ^2 /NDF: 410.9/18

Left In: 1.733 $\pm$ 0.047 χ^2 /NDF: 237.3/8

Left: 1.548 $\pm$ 0.034 χ^2 /NDF: 1048.5/18

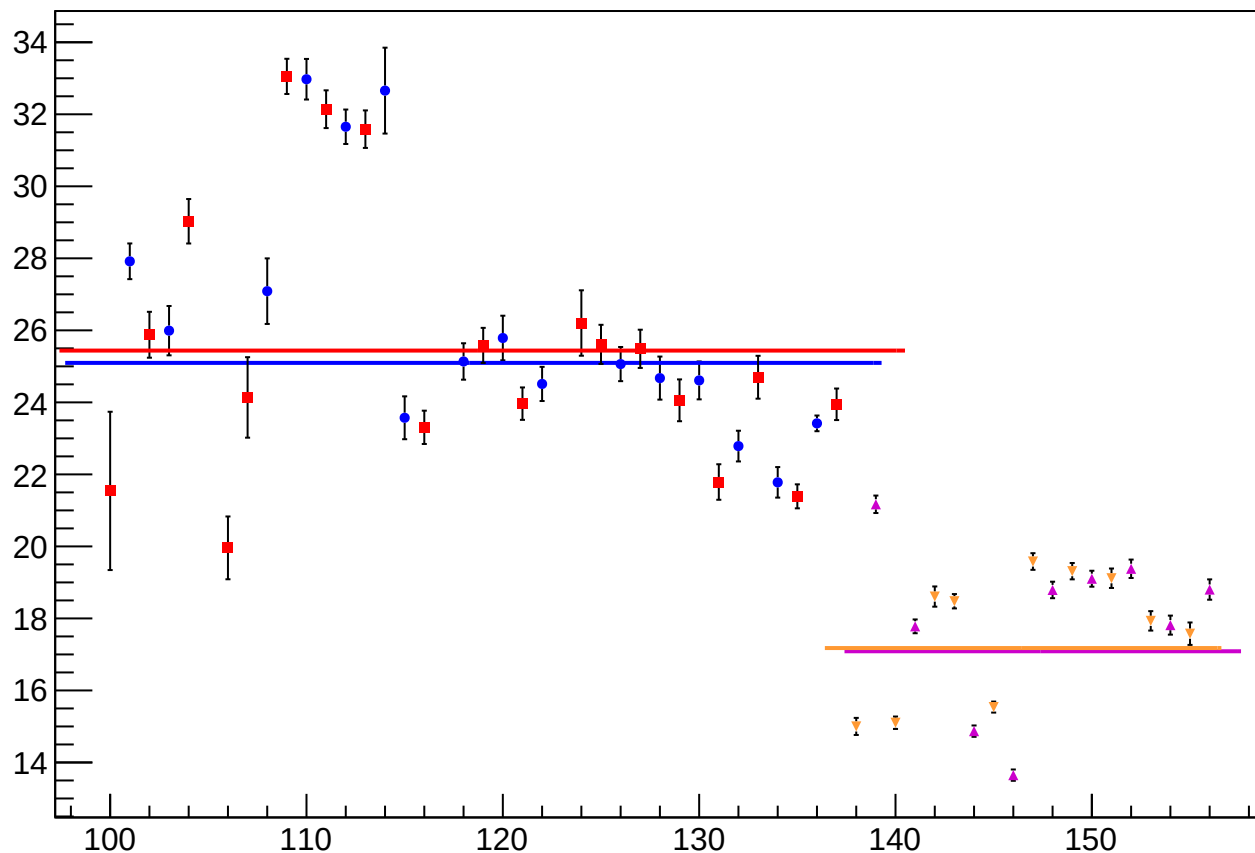
Right: 2.577 $\pm$ 0.079 χ^2 /NDF: 750.9/34

In: 1.839 $\pm$ 0.043 χ^2 /NDF: 602.5/24

Out: 1.566 $\pm$ 0.045 χ^2 /NDF: 1320.5/28

All: 1.707 $\pm$ 0.031 χ^2 /NDF: 1942.3/53

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: 17.177 $\pm$ 0.069 χ^2 /NDF: 669.5/9

Right Out: 25.438 $\pm$ 0.124 χ^2 /NDF: 877.6/18

Left In: 17.088 $\pm$ 0.070 χ^2 /NDF: 1237.2/8

Left: 17.133 $\pm$ 0.049 χ^2 /NDF: 1907.5/18

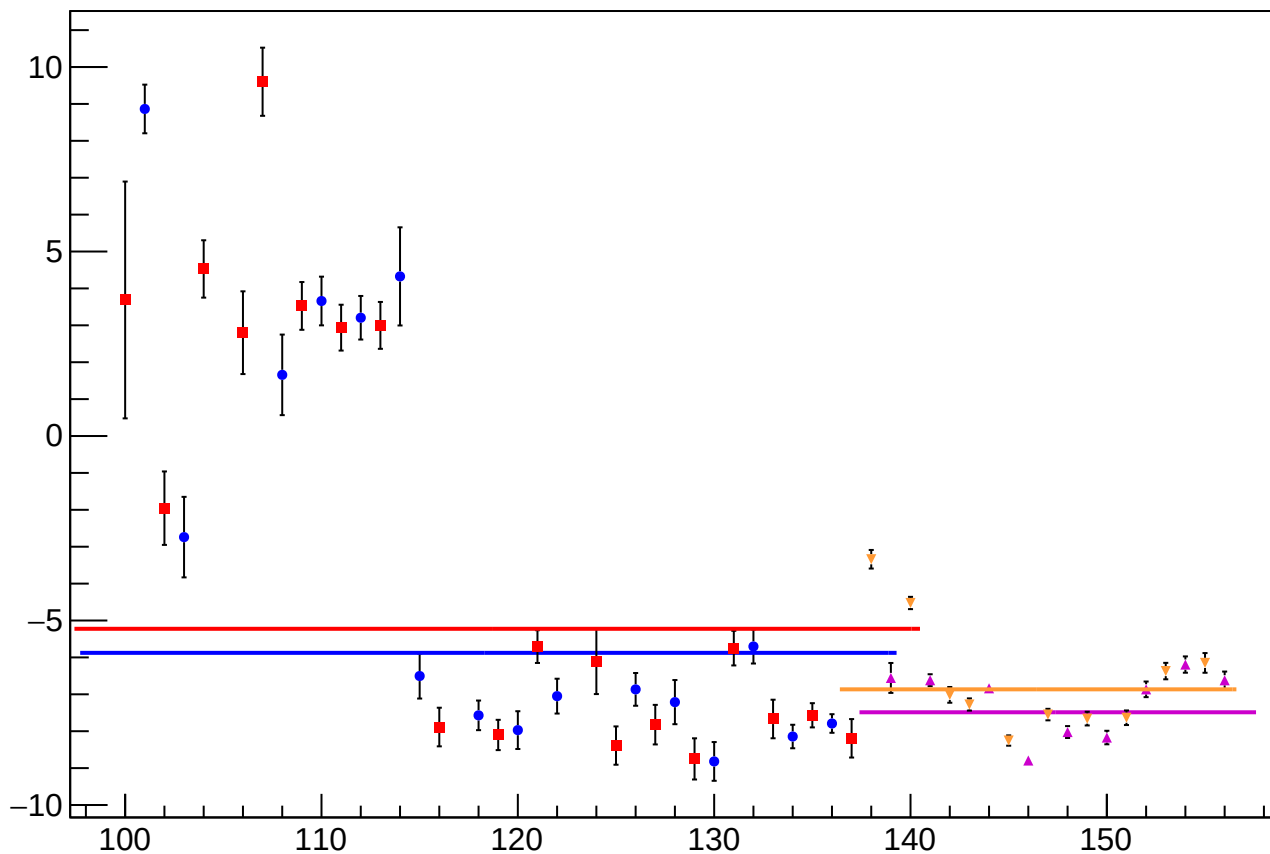
Right: 25.258 $\pm$ 0.085 χ^2 /NDF: 1504.5/34

In: 19.165 $\pm$ 0.060 χ^2 /NDF: 5298.4/24

Out: 19.146 $\pm$ 0.061 χ^2 /NDF: 4926.5/28

All: 19.155 $\pm$ 0.043 χ^2 /NDF: 10224.9/53

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: -6.865 ± 0.059 χ^2/NDF : 563.2/9

Right Out: -5.225 ± 0.129 χ^2/NDF : 1292.0/18

Left In: -7.487 ± 0.058 χ^2/NDF : 258.5/8

Left: -7.181 ± 0.041 χ^2/NDF : 878.8/18

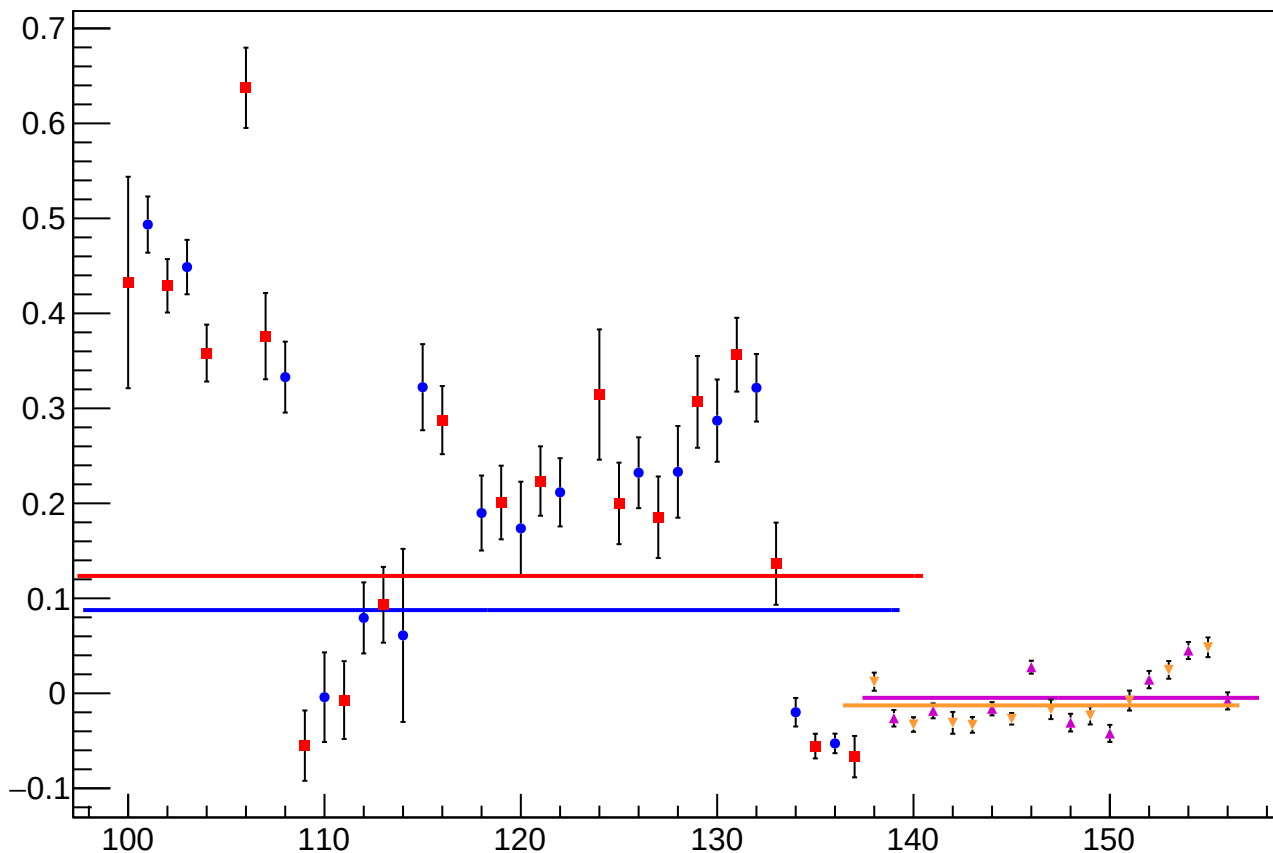
Right: -5.573 ± 0.088 χ^2/NDF : 2556.9/34

In: -7.187 ± 0.052 χ^2/NDF : 1654.9/24

Out: -6.586 ± 0.053 χ^2/NDF : 1988.5/28

All: -6.894 ± 0.037 χ^2/NDF : 3708.3/53

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.007 χ^2 /NDF: 768.0/15

Left Out: -0.013 $\pm$ 0.003 χ^2 /NDF: 80.1/9

Right Out: 0.124 $\pm$ 0.007 χ^2 /NDF: 762.3/18

Left In: -0.005 $\pm$ 0.003 χ^2 /NDF: 94.9/8

Left: -0.009 $\pm$ 0.002 χ^2 /NDF: 179.1/18

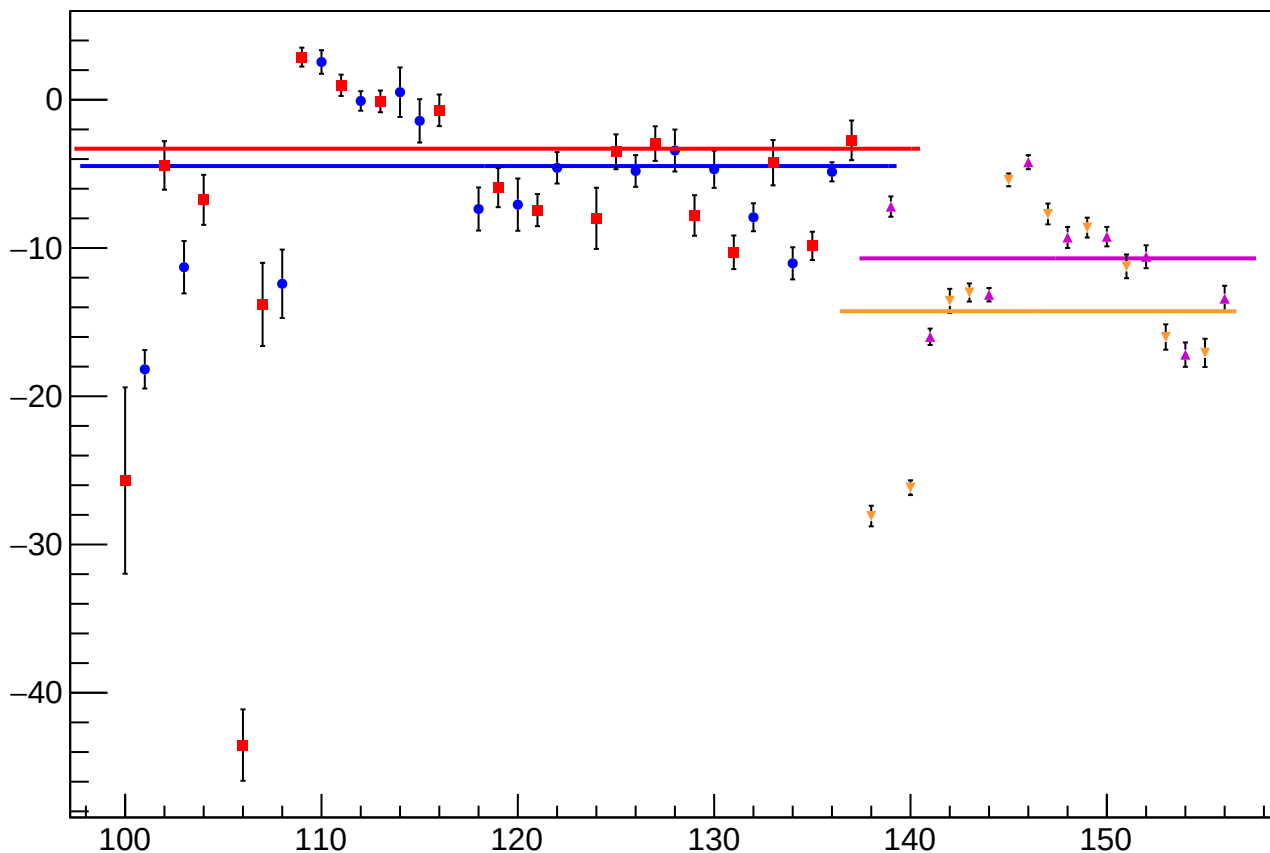
Right: 0.104 $\pm$ 0.005 χ^2 /NDF: 1543.6/34

In: 0.009 $\pm$ 0.003 χ^2 /NDF: 1030.2/24

Out: 0.005 $\pm$ 0.003 χ^2 /NDF: 1144.0/28

All: 0.007 $\pm$ 0.002 χ^2 /NDF: 2175.6/53

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: -14.264 ± 0.204 χ^2/NDF : 1580.2/9

Right Out: -3.302 ± 0.261 χ^2/NDF : 584.6/18

Left In: -10.698 ± 0.206 χ^2/NDF : 413.6/8

Left: -12.499 ± 0.145 χ^2/NDF : 2144.6/18

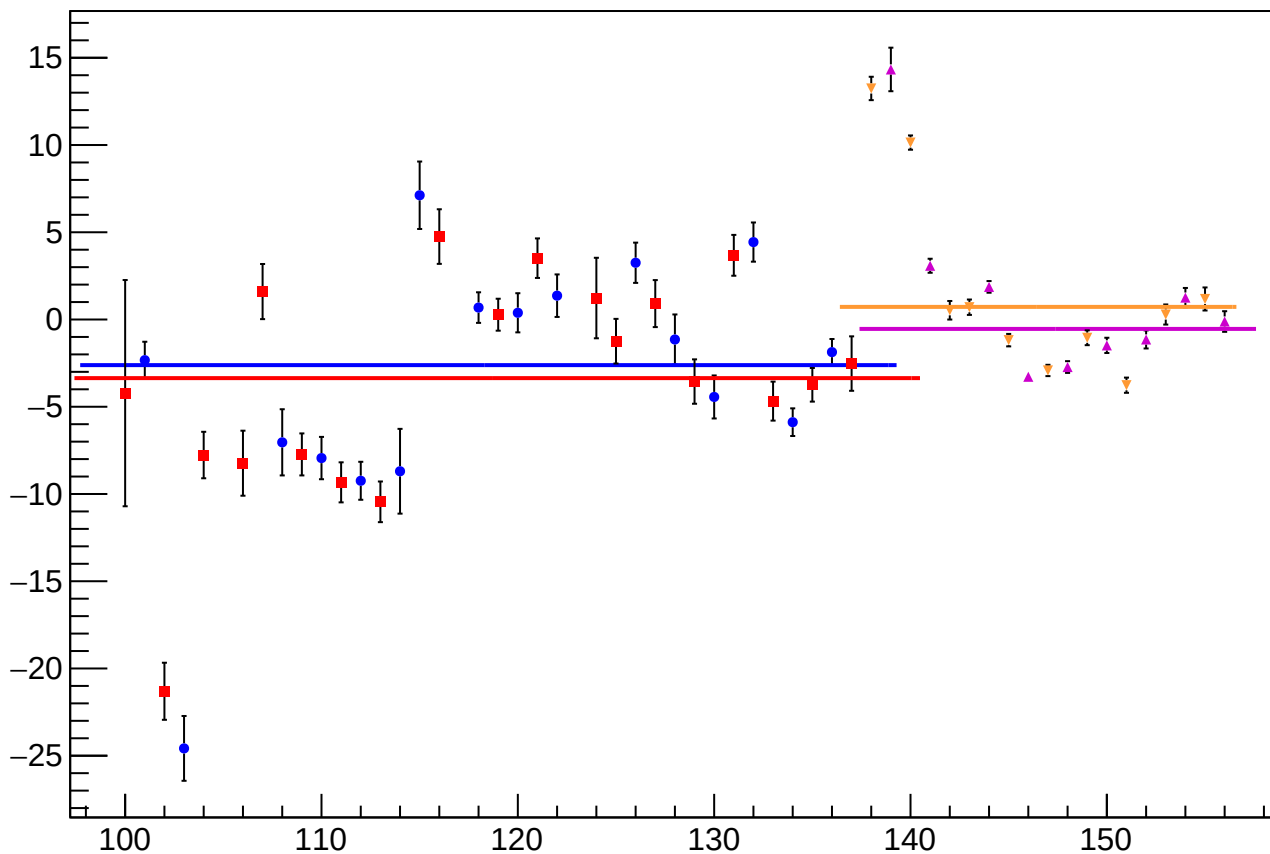
Right: -3.869 ± 0.187 χ^2/NDF : 926.1/34

In: -8.385 ± 0.164 χ^2/NDF : 1083.8/24

Out: -10.095 ± 0.161 χ^2/NDF : 3259.4/28

All: -9.255 ± 0.115 χ^2/NDF : 4398.7/53

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: 0.723 ± 0.141 χ^2/NDF : 1158.5/9

Right Out: -3.359 ± 0.299 χ^2/NDF : 359.6/18

Left In: -0.539 ± 0.138 χ^2/NDF : 428.0/8

Left: 0.081 ± 0.099 χ^2/NDF : 1627.3/18

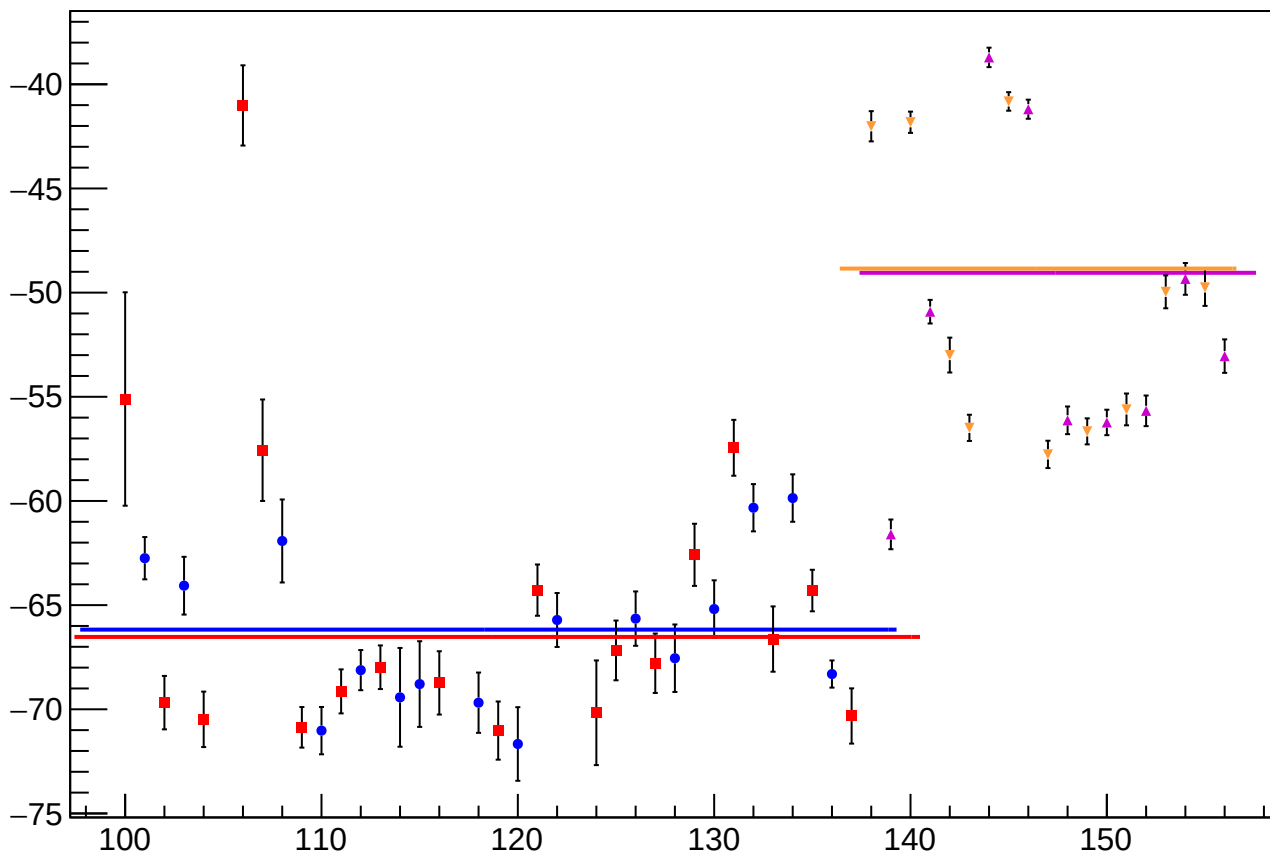
Right: -2.970 ± 0.206 χ^2/NDF : 714.8/34

In: -0.934 ± 0.125 χ^2/NDF : 822.7/24

Out: -0.020 ± 0.127 χ^2/NDF : 1670.9/28

All: -0.487 ± 0.089 χ^2/NDF : 2519.9/53

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: -48.845 $\pm$ 0.203 χ^2 /NDF:1198.3/9

Right Out: -66.526 $\pm$ 0.312 χ^2 /NDF: 321.7/18

Left In: -49.048 $\pm$ 0.202 χ^2 /NDF:1462.6/8

Left: -48.947 $\pm$ 0.143 χ^2 /NDF: 2661.4/18

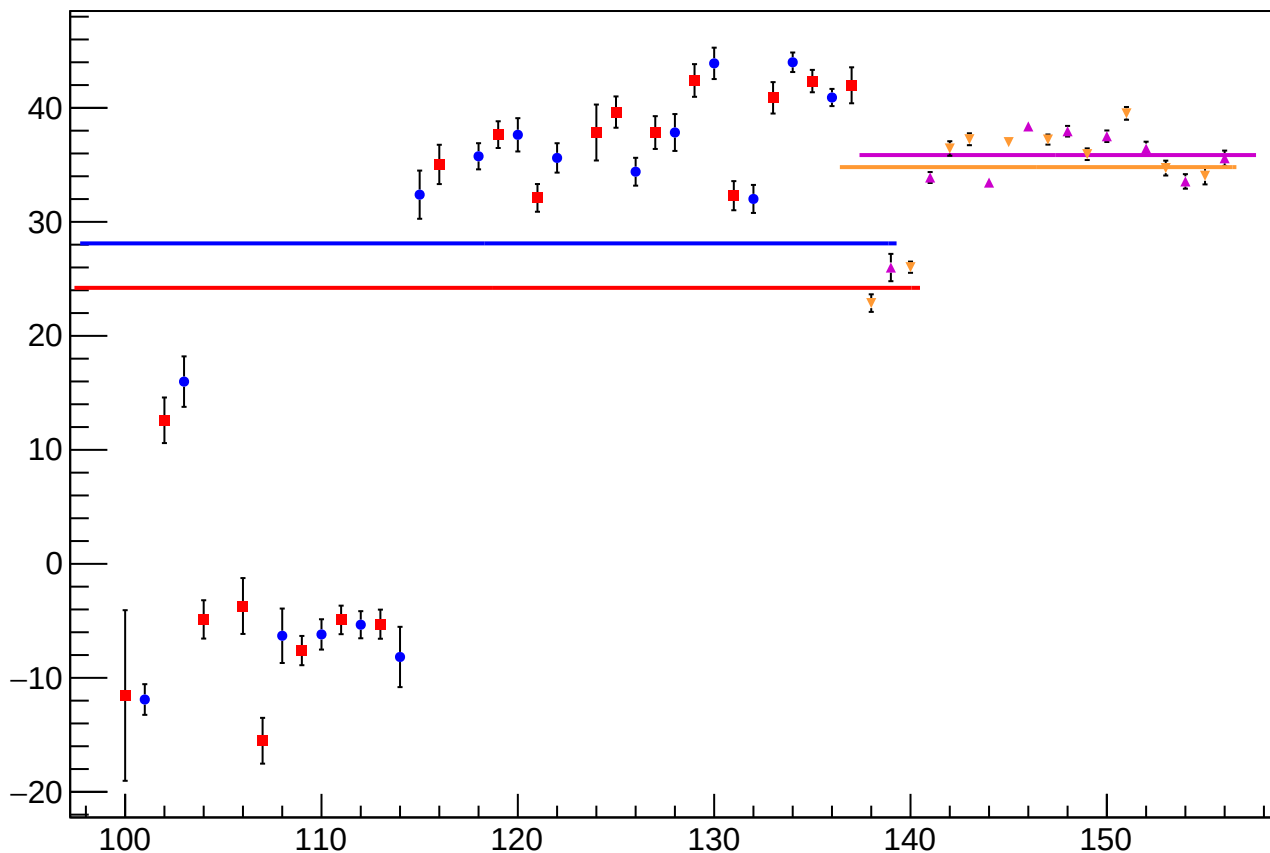
Right: -66.346 $\pm$ 0.218 χ^2 /NDF: 451.5/34

In: -54.290 $\pm$ 0.168 χ^2 /NDF:3790.0/24

Out: -54.099 $\pm$ 0.170 χ^2 /NDF:3770.5/28

All: -54.195 $\pm$ 0.120 χ^2 /NDF: 7561.1/53

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: 34.803 $\pm$ 0.171 χ^2 /NDF:720.5/9

Right Out: 24.212 $\pm$ 0.336 χ^2 /NDF: 3841.7/18

Left In: 35.860 $\pm$ 0.168 χ^2 /NDF:217.6/8

Left: 35.341 $\pm$ 0.120 χ^2 /NDF: 957.5/18

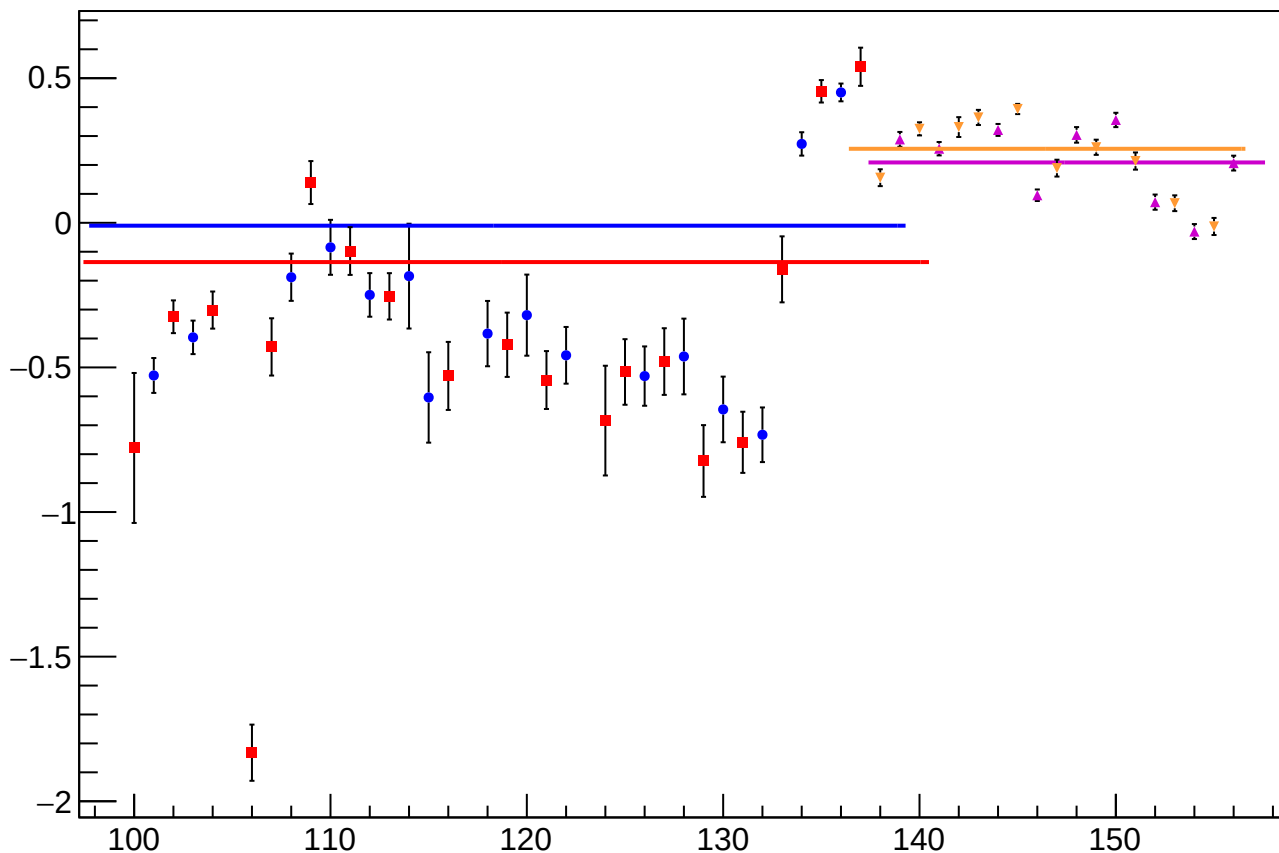
Right: 26.255 $\pm$ 0.232 χ^2 /NDF: 7640.1/34

In: 34.183 $\pm$ 0.149 χ^2 /NDF:4404.8/24

Out: 32.615 $\pm$ 0.153 χ^2 /NDF:5352.3/28

All: 33.418 $\pm$ 0.107 χ^2 /NDF: 9811.2/53

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: 0.256 ± 0.008 χ^2/NDF : 241.6/9

Right Out: -0.136 ± 0.019 χ^2/NDF : 818.5/18

Left In: 0.209 ± 0.008 χ^2/NDF : 235.9/8

Left: 0.232 ± 0.006 χ^2/NDF : 494.5/18

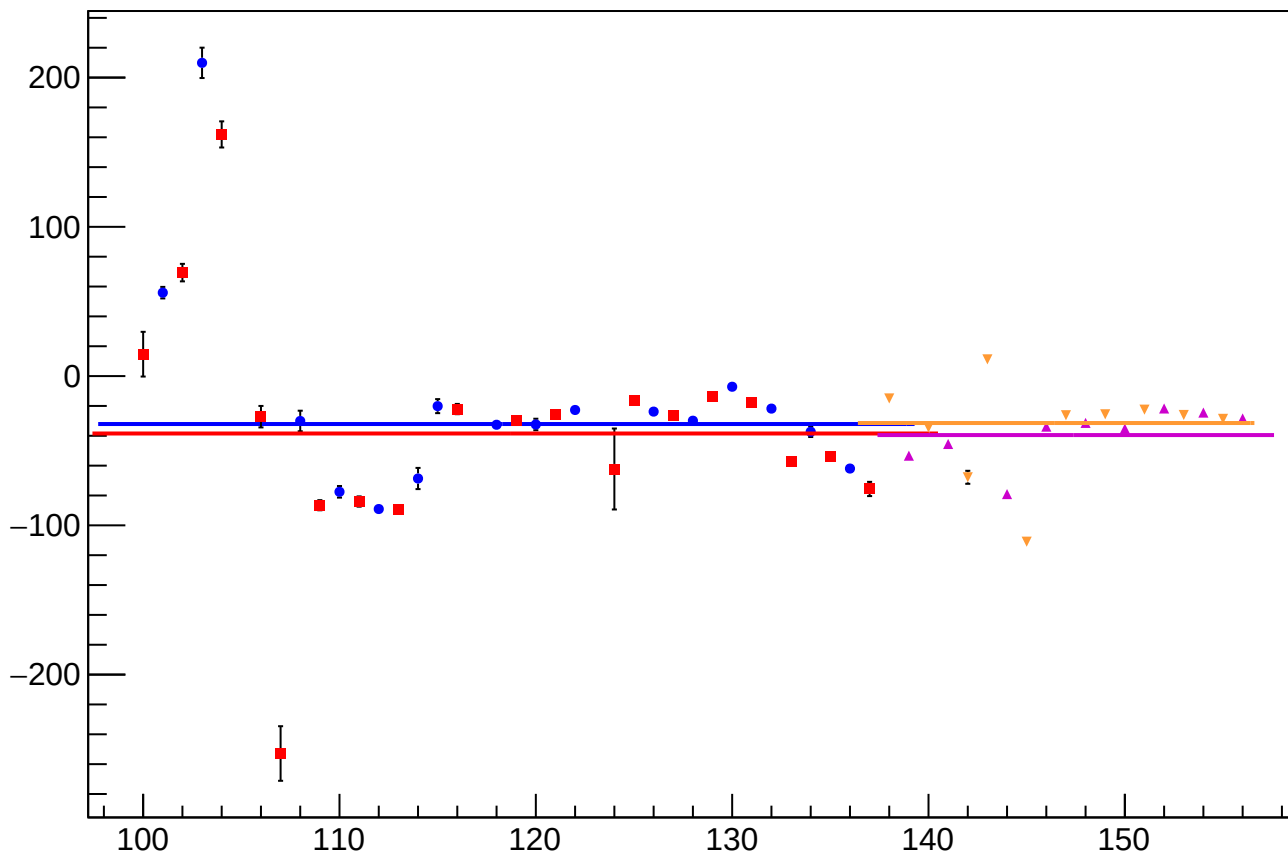
Right: -0.068 ± 0.013 χ^2/NDF : 1430.0/34

In: 0.170 ± 0.007 χ^2/NDF : 954.6/24

Out: 0.194 ± 0.008 χ^2/NDF : 1423.9/28

All: 0.182 ± 0.005 χ^2/NDF : 2383.4/53

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.117 ± 0.843 χ^2/NDF : 1877.5/15

Left Out: -31.444 ± 0.932 χ^2/NDF : 918.6/9

Right Out: -38.462 ± 0.864 χ^2/NDF : 1972.5/18

Left In: -39.516 ± 0.938 χ^2/NDF : 297.0/8

Left: -35.453 ± 0.661 χ^2/NDF : 1252.9/18

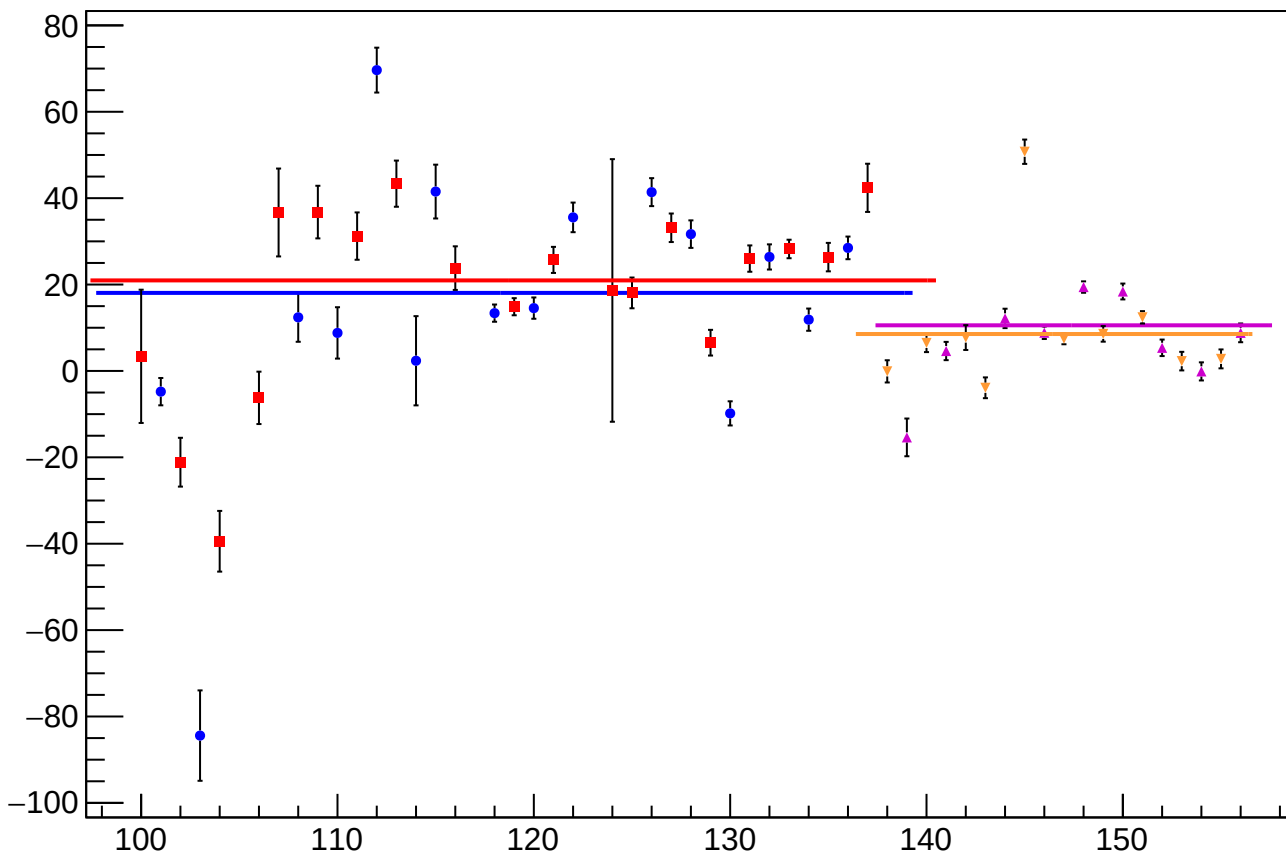
Right: -35.208 ± 0.603 χ^2/NDF : 3877.6/34

In: -35.422 ± 0.627 χ^2/NDF : 2208.9/24

Out: -35.215 ± 0.634 χ^2/NDF : 2921.6/28

All: -35.319 ± 0.446 χ^2/NDF : 5130.6/53

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.068+/-0.823 χ^2/NDF : 499.6/15

Left Out: 8.547+/-0.618 χ^2/NDF : 287.2/9

Right Out: 20.959+/-0.868 χ^2/NDF : 262.6/18

Left In: 10.563+/-0.629 χ^2/NDF : 142.3/8

Left: 9.539+/-0.441 χ^2/NDF : 434.7/18

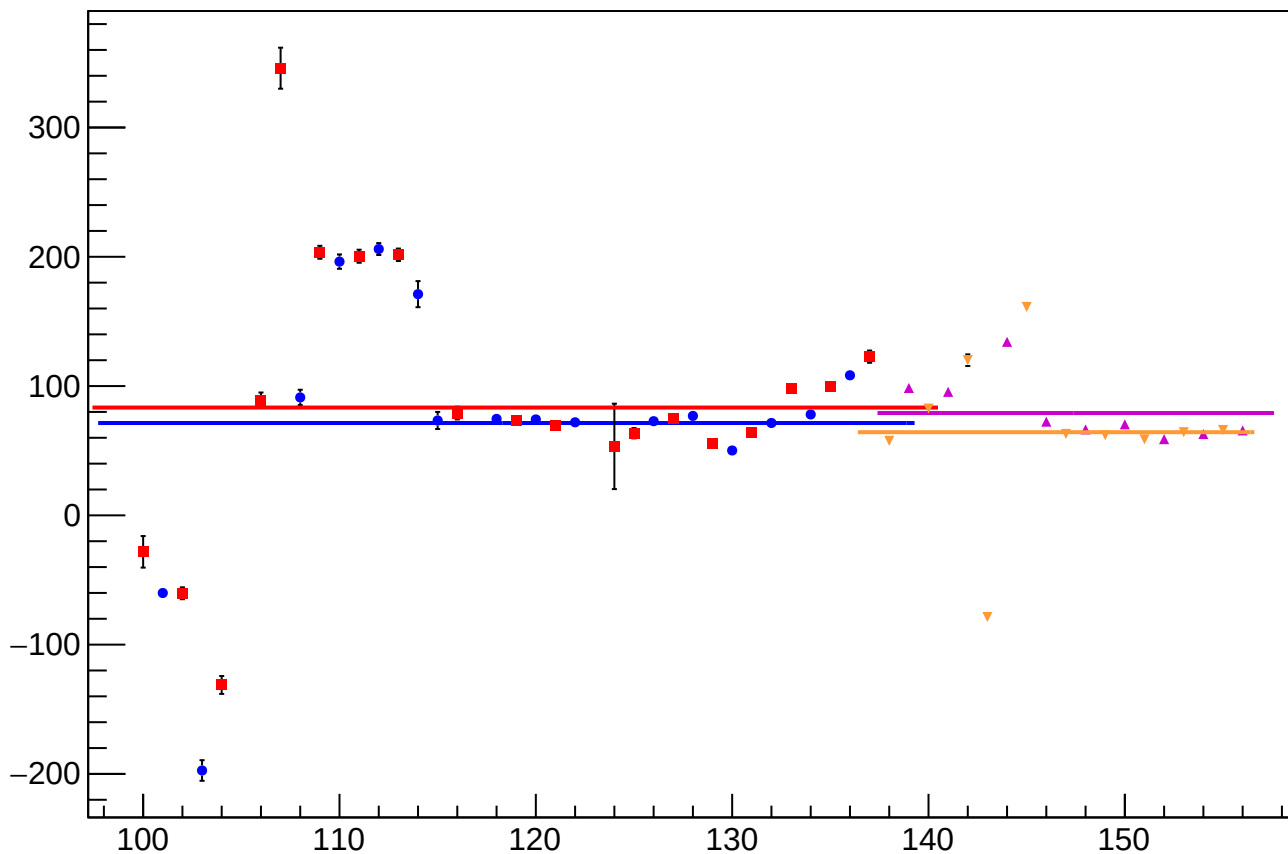
Right: 19.435+/-0.597 χ^2/NDF : 768.0/34

In: 13.330+/-0.499 χ^2/NDF : 694.4/24

Out: 12.723+/-0.504 χ^2/NDF : 685.4/28

All: 13.029+/-0.355 χ^2/NDF : 1380.5/53

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 71.421+/-0.931 χ^2/NDF : 4819.6/15

Left Out: 64.330+/-0.912 χ^2/NDF : 2876.4/9

Right Out: 83.385+/-0.985 χ^2/NDF : 4297.3/18

Left In: 79.147+/-0.910 χ^2/NDF : 550.7/8

Left: 71.759+/-0.644 χ^2/NDF : 3559.3/18

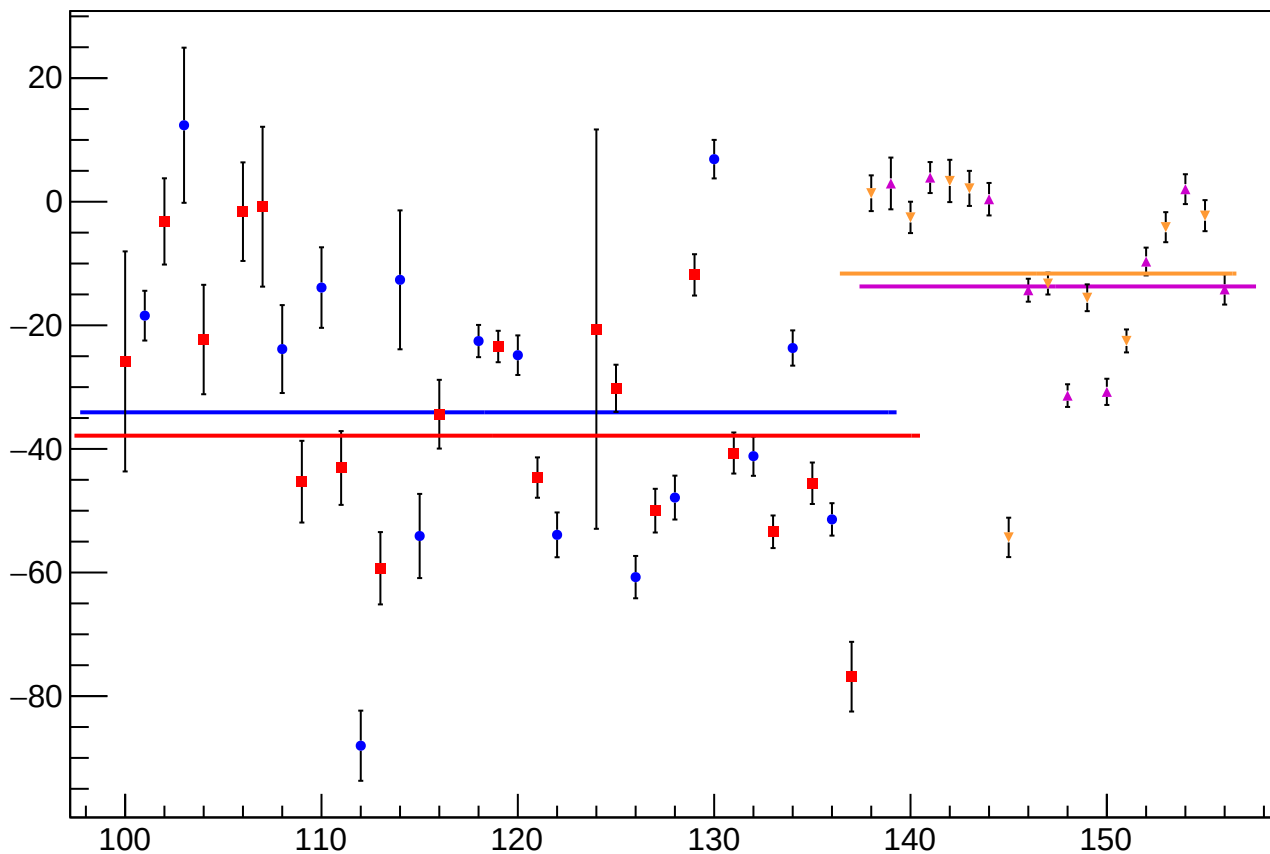
Right: 77.066+/-0.677 χ^2/NDF : 9194.8/34

In: 75.374+/-0.651 χ^2/NDF : 5405.5/24

Out: 73.126+/-0.669 χ^2/NDF : 7375.1/28

All: 74.282+/-0.467 χ^2/NDF : 12786.4/53

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.077 ± 0.942 χ^2/NDF : 511.2/15

Left Out: -11.624 ± 0.760 χ^2/NDF : 317.1/9

Right Out: -37.855 ± 0.994 χ^2/NDF : 274.6/18

Left In: -13.709 ± 0.766 χ^2/NDF : 297.1/8

Left: -12.658 ± 0.539 χ^2/NDF : 618.0/18

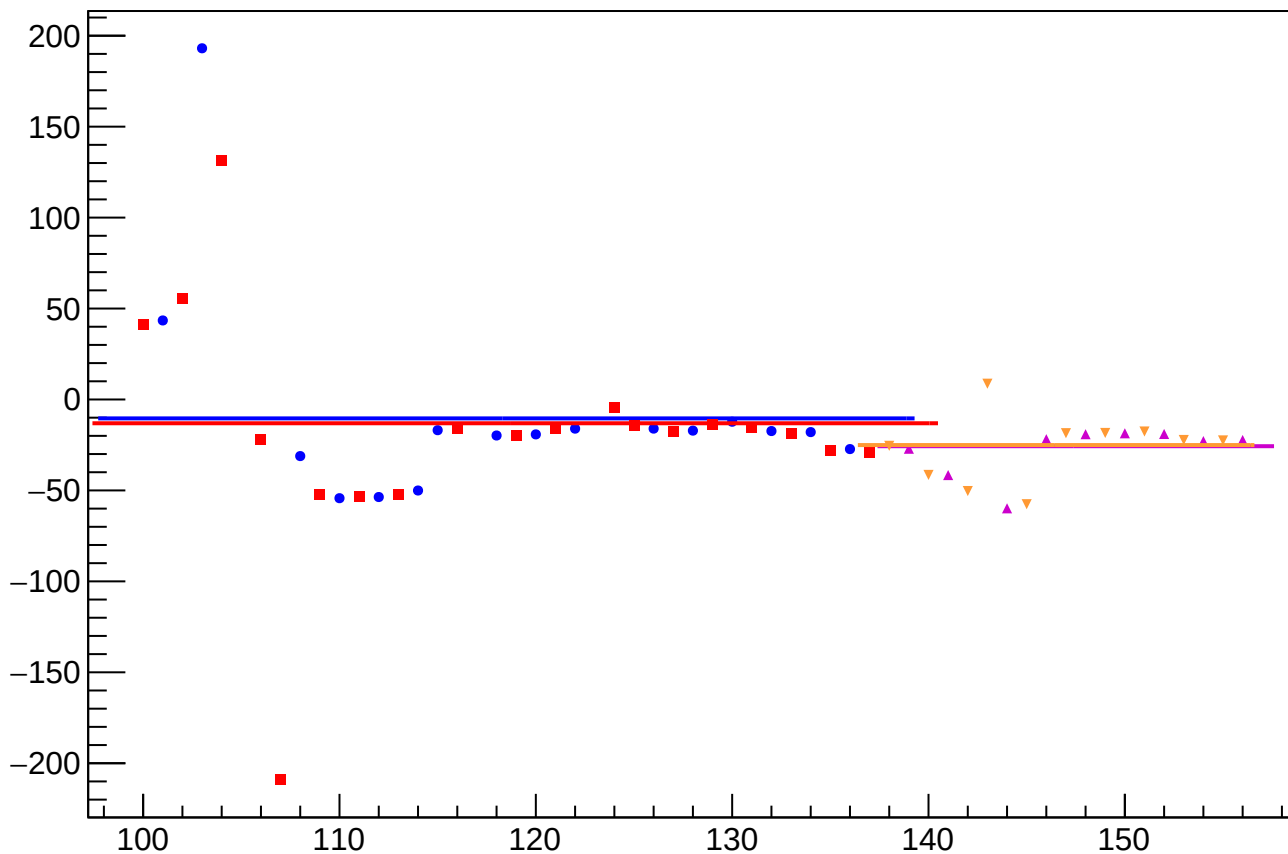
Right: -35.865 ± 0.684 χ^2/NDF : 793.4/34

In: -21.815 ± 0.594 χ^2/NDF : 1089.6/24

Out: -21.299 ± 0.604 χ^2/NDF : 1031.5/28

All: -21.561 ± 0.424 χ^2/NDF : 2121.5/53

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.400 ± 0.057 $\chi^2/\text{NDF}: 522334.6/15$

Left Out: -25.064 ± 0.036 $\chi^2/\text{NDF}: 174295.8/9$

Right Out: -13.074 ± 0.063 $\chi^2/\text{NDF}: 449609.3/18$

Left In: -25.690 ± 0.035 $\chi^2/\text{NDF}: 93861.7/8$

Left: -25.390 ± 0.025 $\chi^2/\text{NDF}: 268314.8/18$

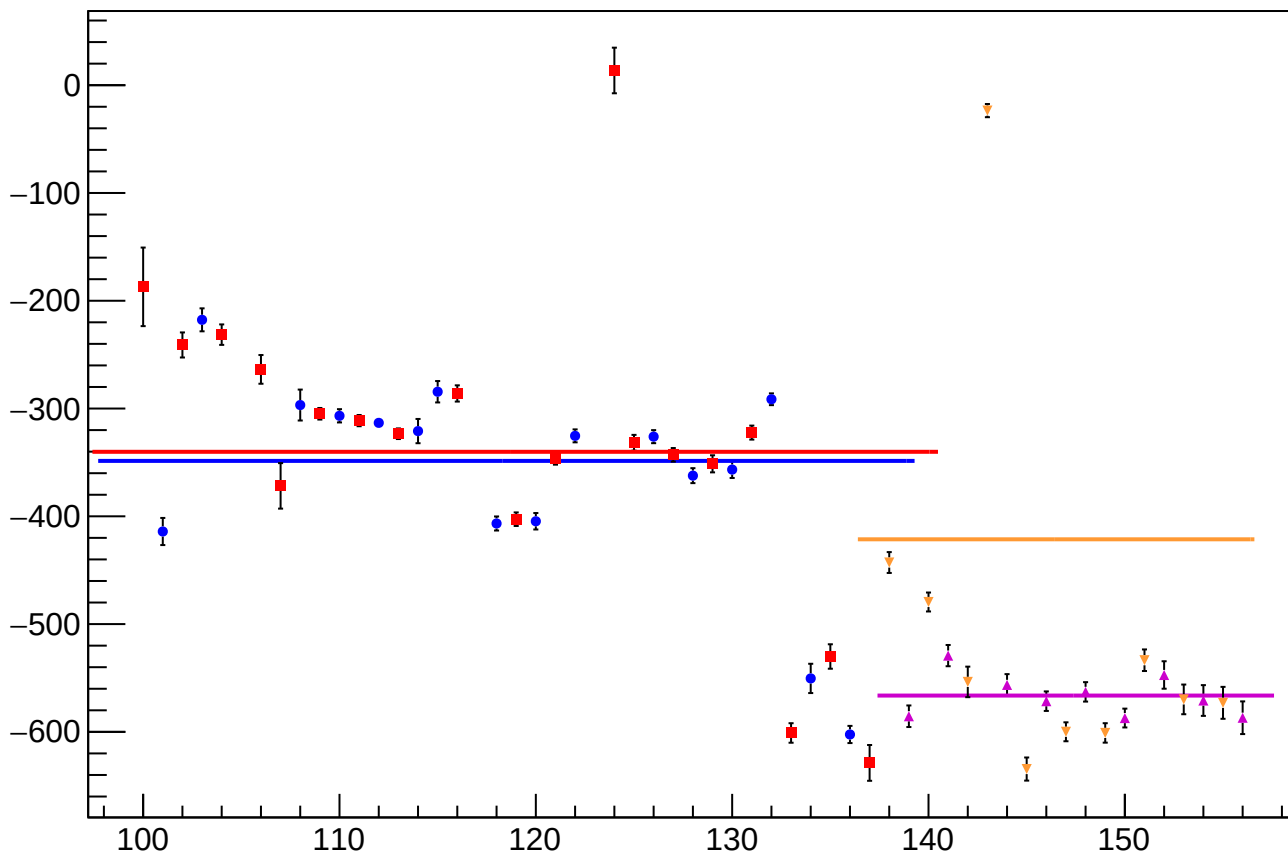
Right: -11.607 ± 0.042 $\chi^2/\text{NDF}: 972944.0/34$

In: -21.568 ± 0.030 $\chi^2/\text{NDF}: 669088.7/24$

Out: -22.085 ± 0.031 $\chi^2/\text{NDF}: 651460.2/28$

All: -21.812 ± 0.021 $\chi^2/\text{NDF}: 1320693.3/53$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -348.586 ± 1.825 $\chi^2/\text{NDF}: 1858.3/15$

Left Out: -421.337 ± 3.028 $\chi^2/\text{NDF}: 5910.8/9$

Right Out: -340.144 ± 1.759 $\chi^2/\text{NDF}: 2197.1/18$

Left In: -566.317 ± 3.464 $\chi^2/\text{NDF}: 29.2/8$

Left: -484.141 ± 2.280 $\chi^2/\text{NDF}: 6933.1/18$

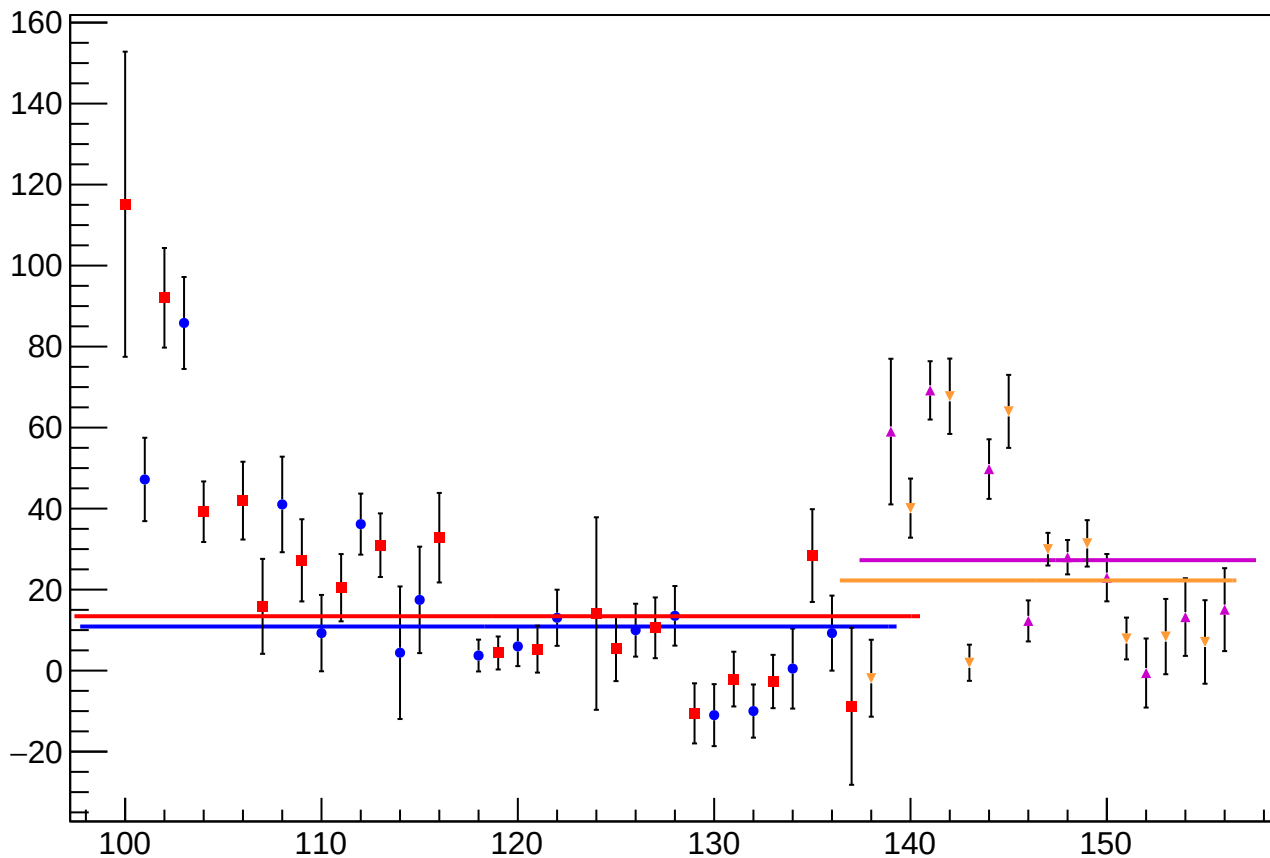
Right: -344.211 ± 1.267 $\chi^2/\text{NDF}: 4066.5/34$

In: -395.883 ± 1.614 $\chi^2/\text{NDF}: 4980.5/24$

Out: -360.636 ± 1.521 $\chi^2/\text{NDF}: 8645.5/28$

All: -377.214 ± 1.107 $\chi^2/\text{NDF}: 13878.5/53$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.888 ± 1.843 $\chi^2/\text{NDF}: 98.2/15$

Left Out: 22.261 ± 1.983 $\chi^2/\text{NDF}: 96.8/9$

Right Out: 13.427 ± 1.854 $\chi^2/\text{NDF}: 112.4/18$

Left In: 27.267 ± 2.243 $\chi^2/\text{NDF}: 69.9/8$

Left: 24.457 ± 1.486 $\chi^2/\text{NDF}: 169.6/18$

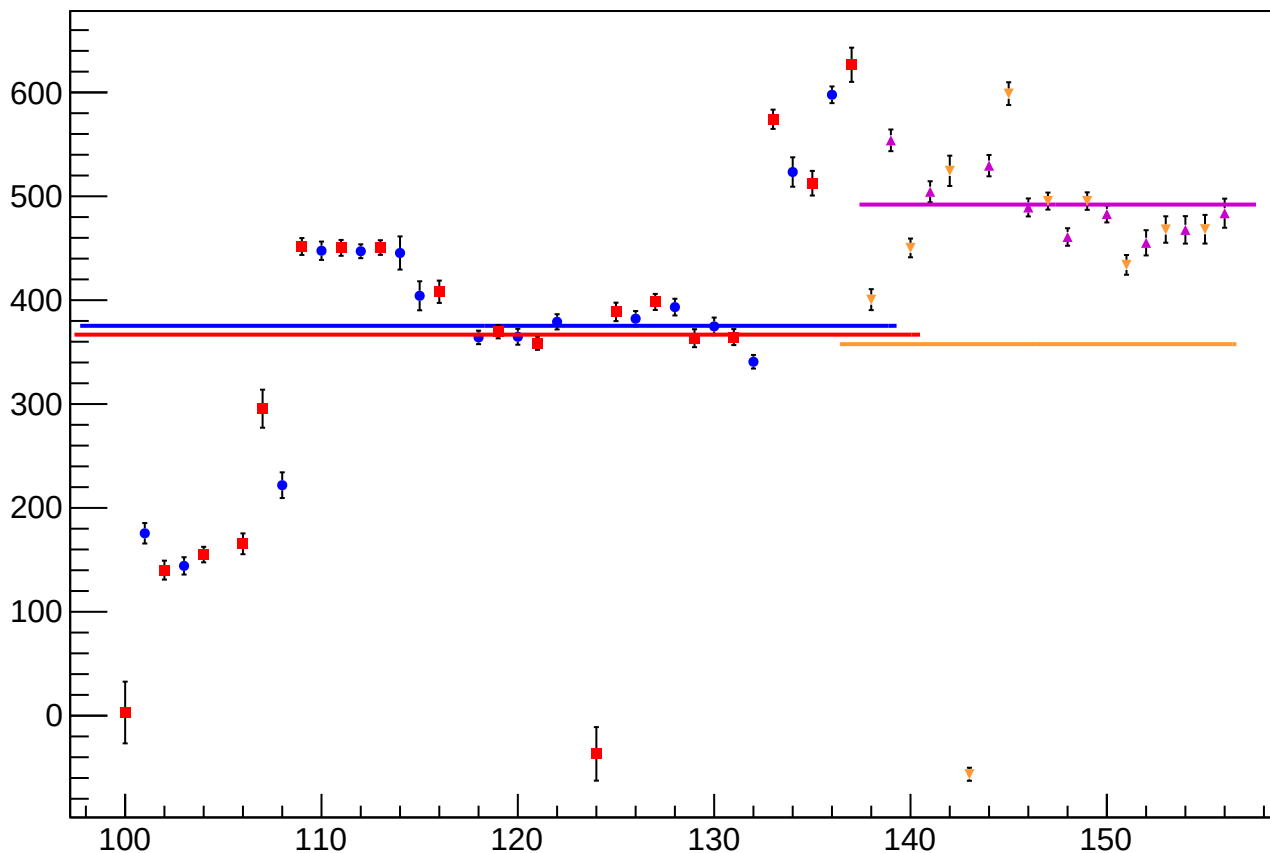
Right: 12.149 ± 1.307 $\chi^2/\text{NDF}: 211.6/34$

In: 17.488 ± 1.424 $\chi^2/\text{NDF}: 200.0/24$

Out: 17.548 ± 1.354 $\chi^2/\text{NDF}: 219.8/28$

All: 17.520 ± 0.981 $\chi^2/\text{NDF}: 419.8/53$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 375.321 ± 2.103 χ^2/NDF : 2449.5/15

Left Out: 357.661 ± 2.991 χ^2/NDF : 5816.1/9

Right Out: 366.830 ± 2.049 χ^2/NDF : 3541.1/18

Left In: 492.048 ± 3.363 χ^2/NDF : 77.9/8

Left: 417.022 ± 2.235 χ^2/NDF : 6785.5/18

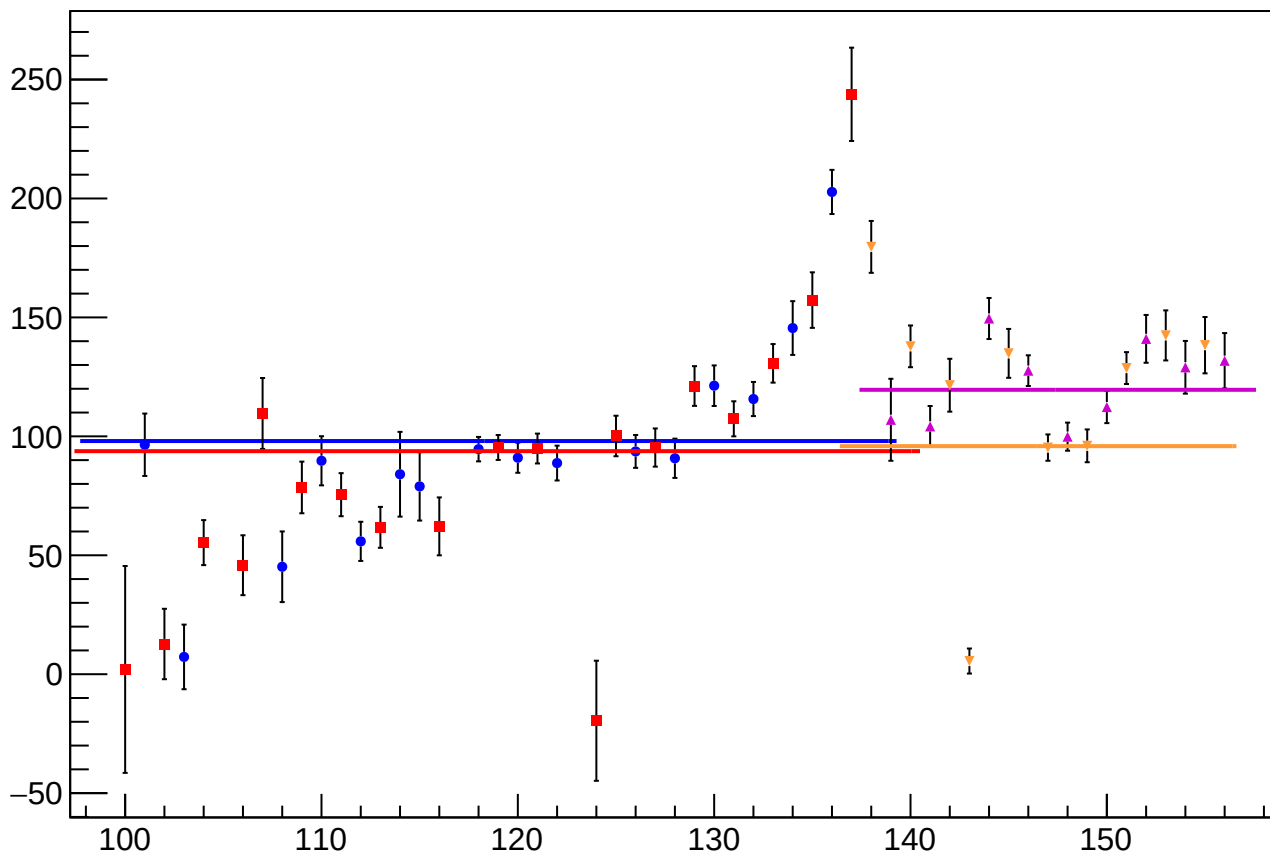
Right: 370.966 ± 1.468 χ^2/NDF : 5998.9/34

In: 408.131 ± 1.783 χ^2/NDF : 3393.5/24

Out: 363.900 ± 1.691 χ^2/NDF : 9363.6/28

All: 384.842 ± 1.227 χ^2/NDF : 13081.1/53

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.021+/-2.144 χ^2/NDF : 249.5/15

Left Out: 95.878+/-2.446 χ^2/NDF : 452.6/9

Right Out: 93.771+/-2.138 χ^2/NDF : 237.1/18

Left In: 119.565+/-2.770 χ^2/NDF : 36.0/8

Left: 106.259+/-1.833 χ^2/NDF : 529.7/18

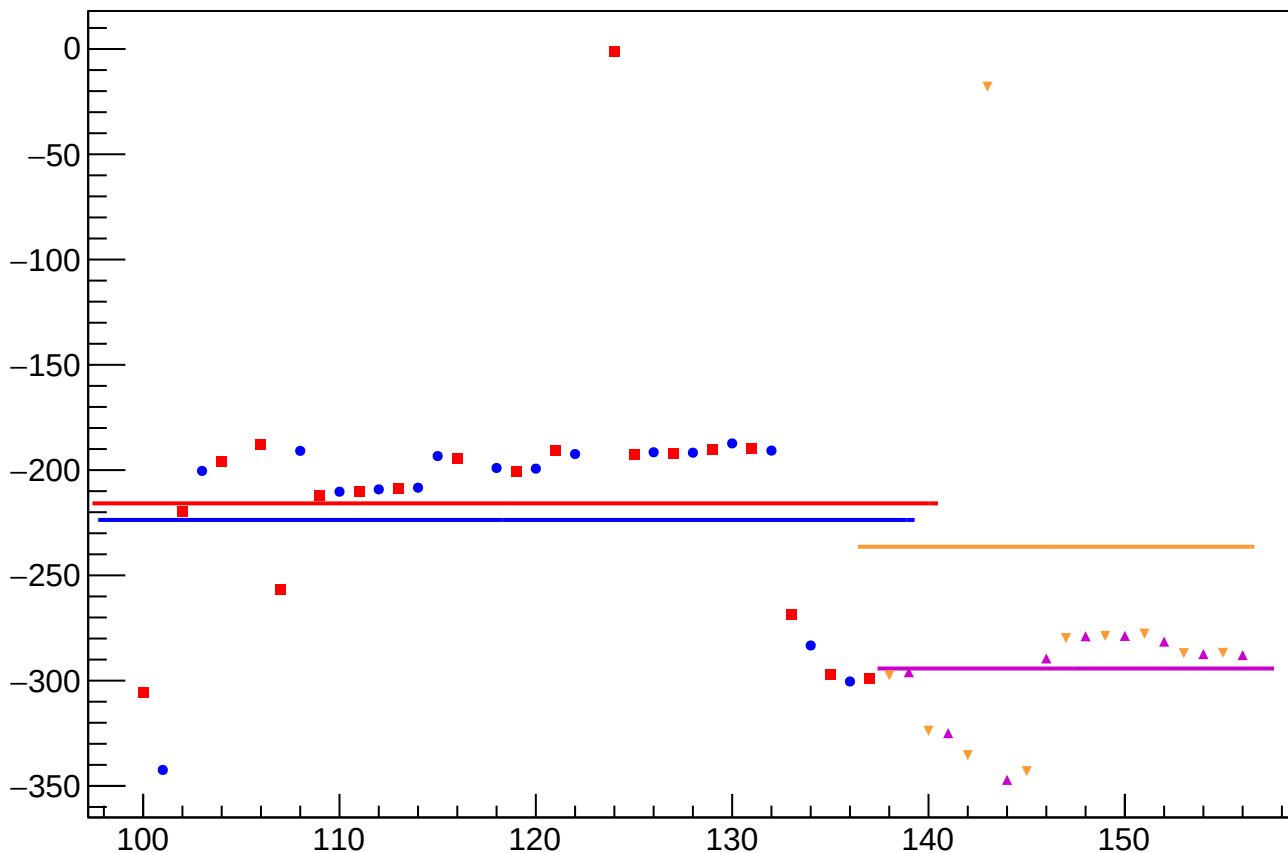
Right: 95.890+/-1.514 χ^2/NDF : 488.6/34

In: 106.095+/-1.695 χ^2/NDF : 323.3/24

Out: 94.684+/-1.610 χ^2/NDF : 690.2/28

All: 100.094+/-1.167 χ^2/NDF : 1037.3/53

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -223.666+/-0.138 χ^2/NDF : 121528.3/15

Left Out: -236.407+/-0.122 χ^2/NDF : 921866.6/9

Right Out: -215.797+/-0.134 χ^2/NDF : 81516.6/18

Left In: -294.238+/-0.131 χ^2/NDF : 24342.6/8

Left: -263.141+/-0.089 χ^2/NDF : 1050294.6/18

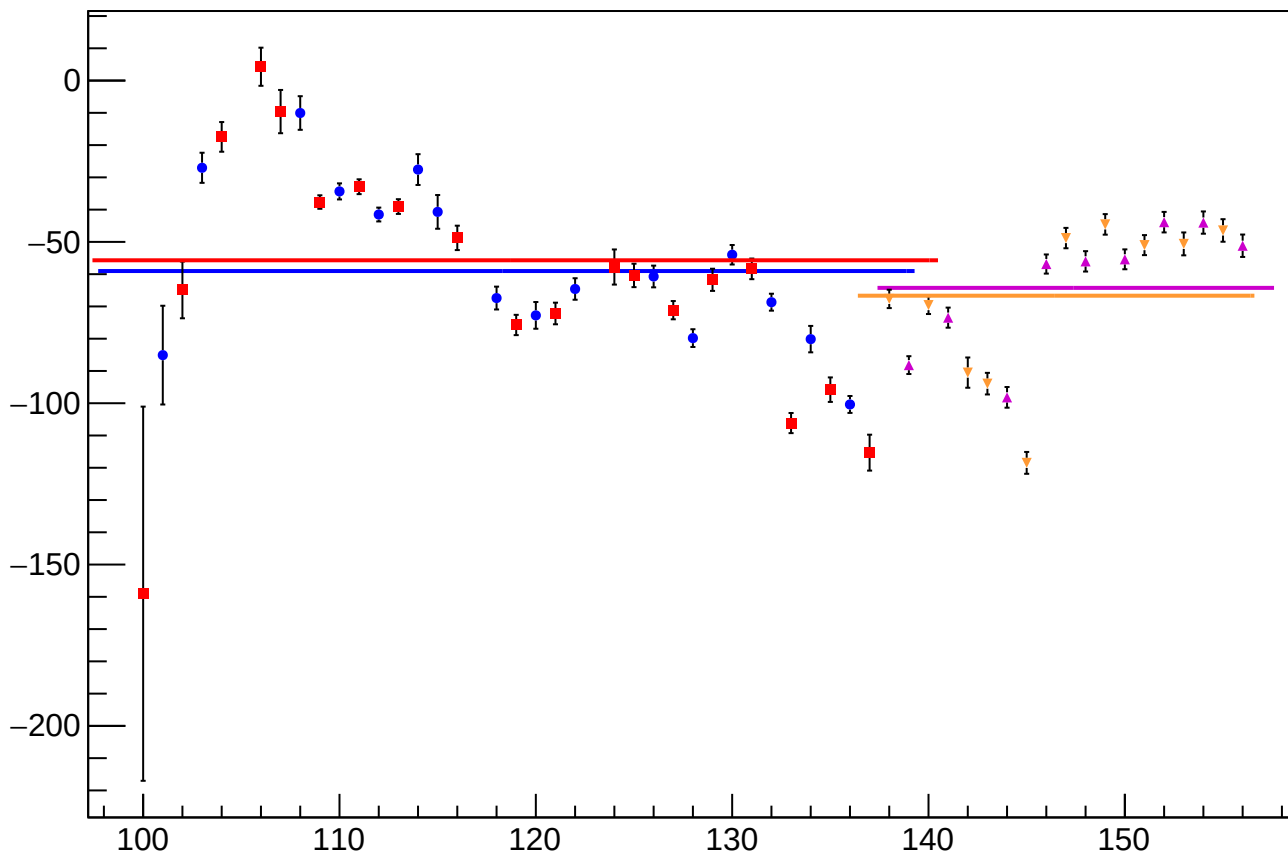
Right: -219.617+/-0.096 χ^2/NDF : 204711.3/34

In: -260.741+/-0.095 χ^2/NDF : 282691.3/24

Out: -227.099+/-0.090 χ^2/NDF : 1016298.6/28

All: -243.011+/-0.066 χ^2/NDF : 1364705.4/53

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.030 $\pm$ 0.829 χ^2 /NDF: 727.3/15

Left Out: -66.673 $\pm$ 1.031 χ^2 /NDF: 486.9/9

Right Out: -55.701 $\pm$ 0.790 χ^2 /NDF: 1041.1/18

Left In: -64.247 $\pm$ 1.044 χ^2 /NDF: 306.8/8

Left: -65.475 $\pm$ 0.734 χ^2 /NDF: 796.4/18

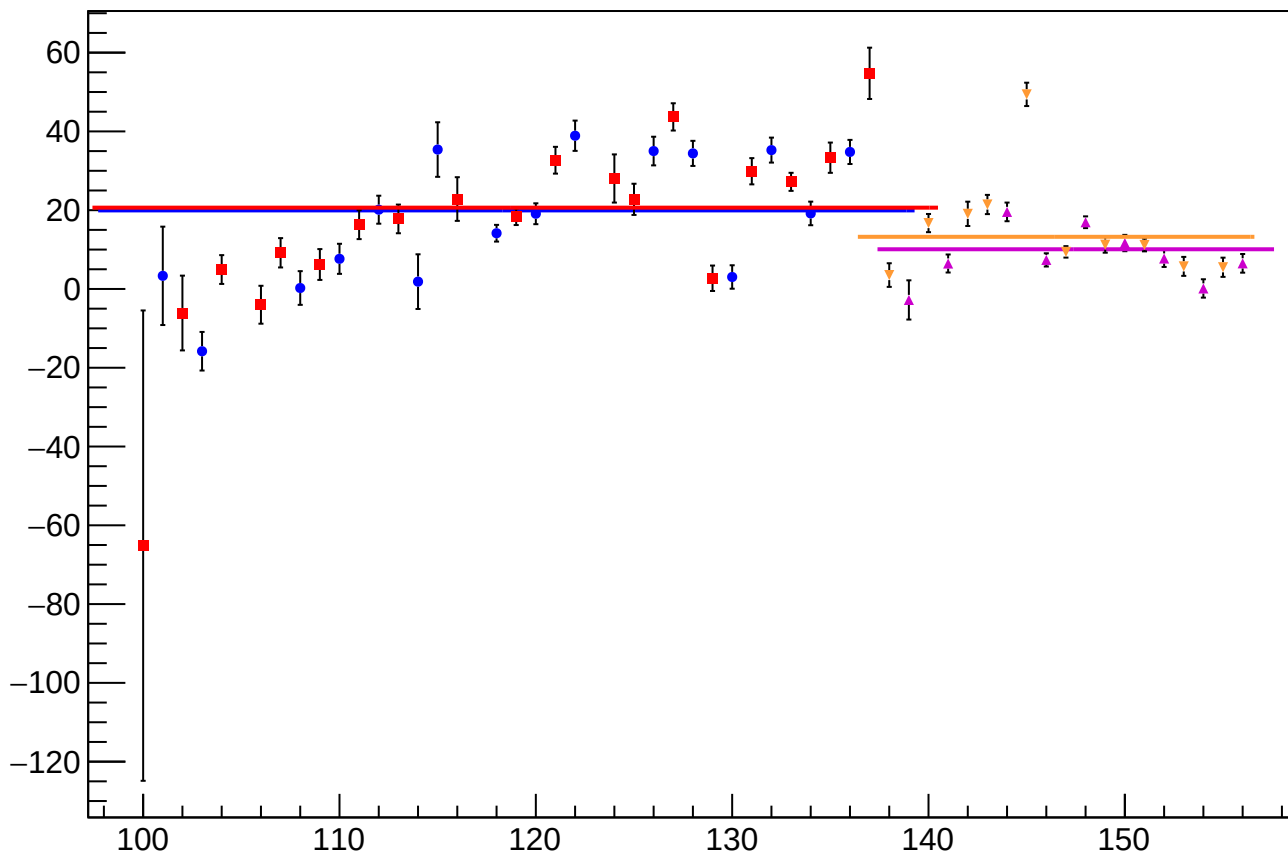
Right: -57.284 $\pm$ 0.572 χ^2 /NDF: 1776.9/34

In: -61.047 $\pm$ 0.649 χ^2 /NDF: 1049.4/24

Out: -59.759 $\pm$ 0.627 χ^2 /NDF: 1599.4/28

All: -60.381 $\pm$ 0.451 χ^2 /NDF: 2650.8/53

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: 13.242 $\pm$ 0.687 χ^2 /NDF:205.7/9

Right Out: 20.643 $\pm$ 0.844 χ^2 /NDF: 224.8/18

Left In: 10.078 $\pm$ 0.702 χ^2 /NDF:71.2/8

Left: 11.695 $\pm$ 0.491 χ^2 /NDF: 287.2/18

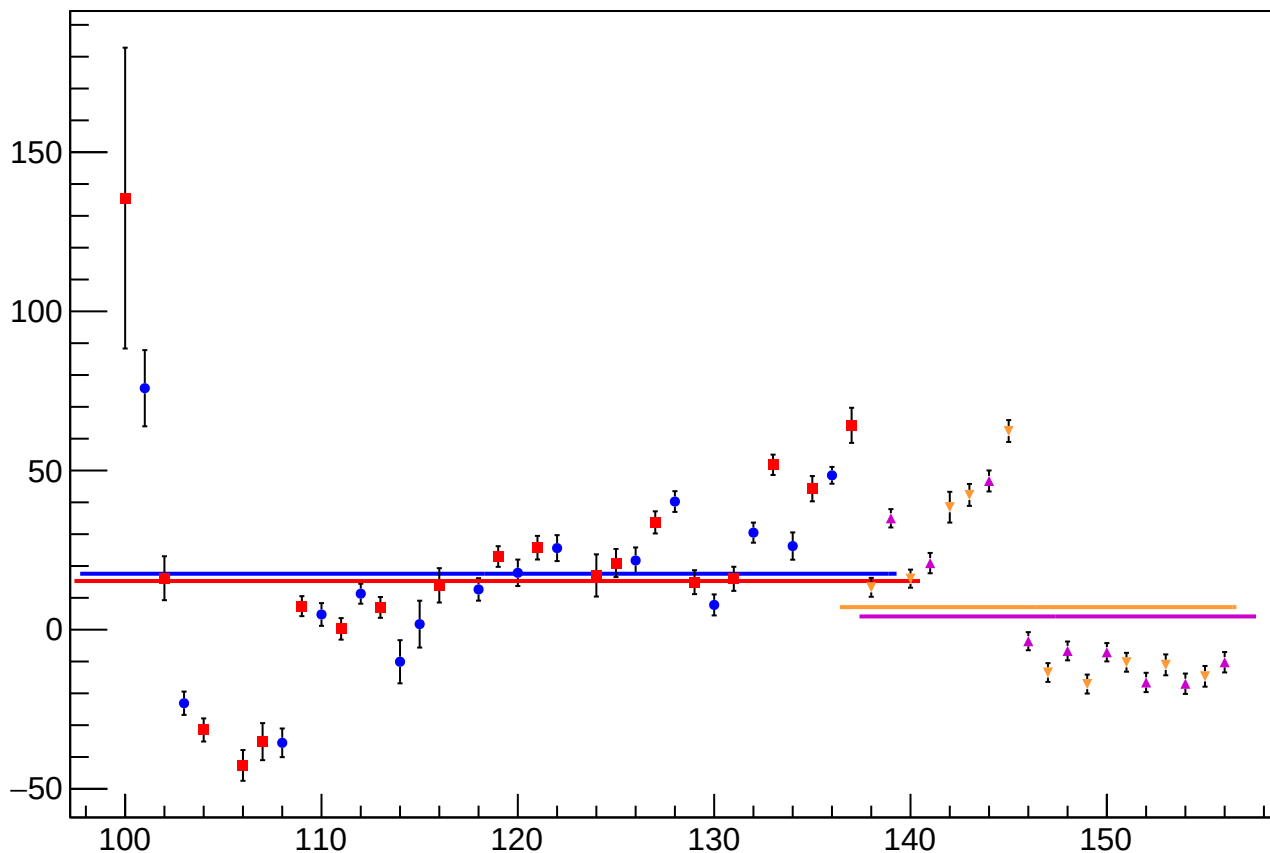
Right: 20.304 $\pm$ 0.605 χ^2 /NDF: 472.3/34

In: 13.986 $\pm$ 0.546 χ^2 /NDF:396.5/24

Out: 16.191 $\pm$ 0.533 χ^2 /NDF:476.7/28

All: 15.116 $\pm$ 0.381 χ^2 /NDF: 881.6/53

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: 7.084 $\pm$ 1.011 χ^2 /NDF: 644.7/9

Right Out: 15.283 $\pm$ 0.934 χ^2 /NDF: 730.0/18

Left In: 4.155 $\pm$ 1.014 χ^2 /NDF: 455.3/8

Left: 5.624 $\pm$ 0.716 χ^2 /NDF: 1104.2/18

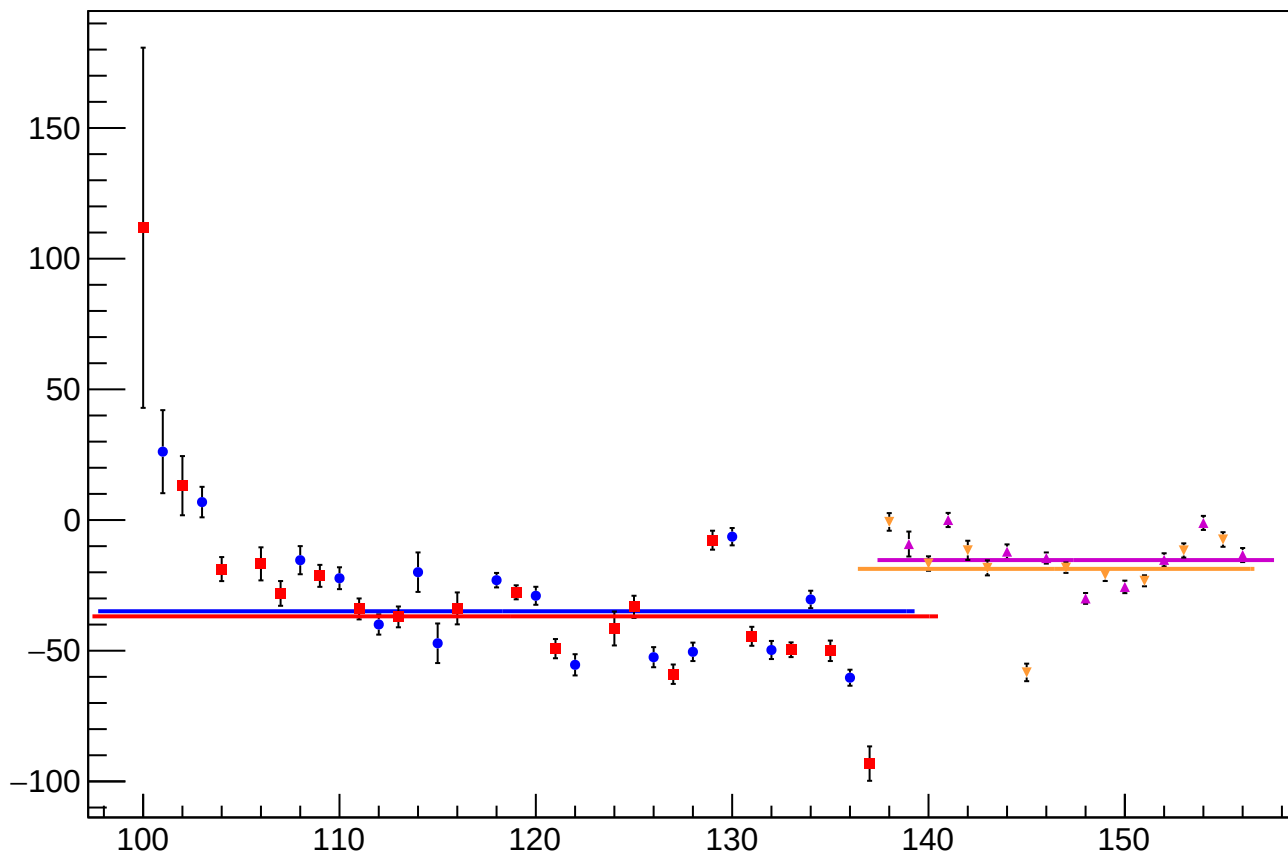
Right: 16.401 $\pm$ 0.668 χ^2 /NDF: 1279.2/34

In: 11.253 $\pm$ 0.696 χ^2 /NDF: 1094.2/24

Out: 11.507 $\pm$ 0.686 χ^2 /NDF: 1410.2/28

All: 11.382 $\pm$ 0.488 χ^2 /NDF: 2504.4/53

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.899 ± 0.990 χ^2/NDF : 346.6/15

Left Out: -18.686 ± 0.842 χ^2/NDF : 200.5/9

Right Out: -36.853 ± 0.970 χ^2/NDF : 301.4/18

Left In: -15.321 ± 0.854 χ^2/NDF : 131.9/8

Left: -17.027 ± 0.600 χ^2/NDF : 340.3/18

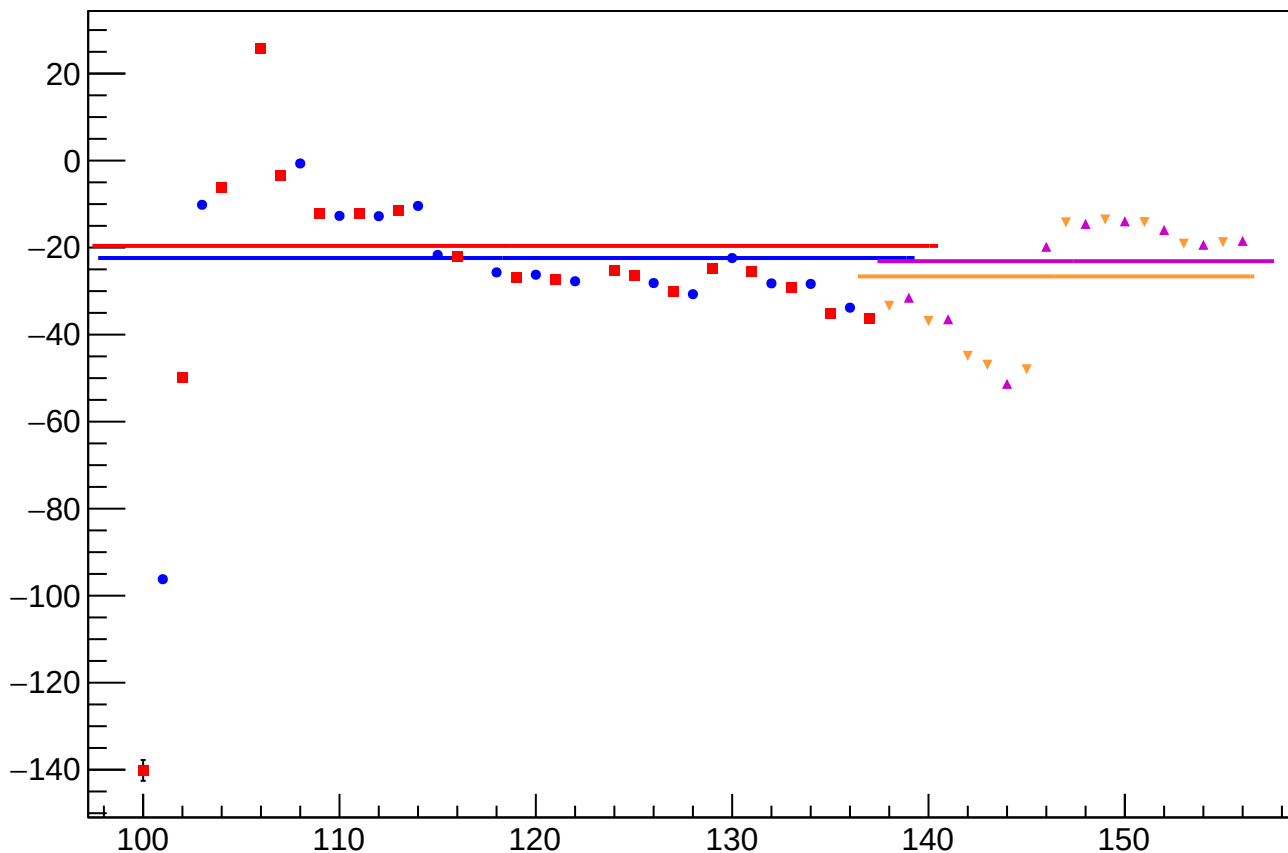
Right: -35.897 ± 0.693 χ^2/NDF : 650.0/34

In: -23.676 ± 0.647 χ^2/NDF : 702.6/24

Out: -26.501 ± 0.636 χ^2/NDF : 702.1/28

All: -25.113 ± 0.453 χ^2/NDF : 1414.4/53

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -22.394 ± 0.058 χ^2/NDF : 46519.7/15

Left Out: -26.619 ± 0.040 χ^2/NDF : 104969.4/9

Right Out: -19.605 ± 0.059 χ^2/NDF : 83865.7/18

Left In: -23.123 ± 0.038 χ^2/NDF : 73337.1/8

Left: -24.806 ± 0.028 χ^2/NDF : 182281.7/18

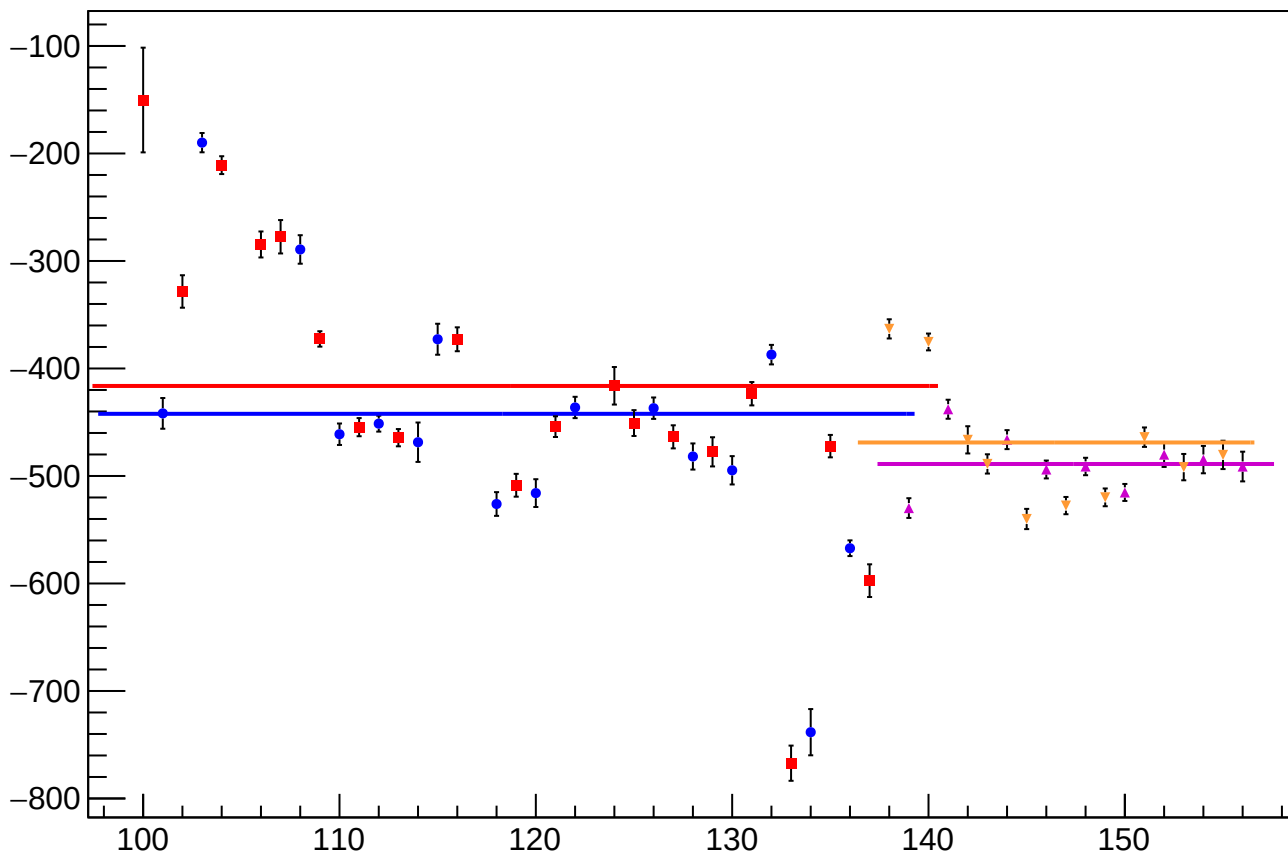
Right: -21.027 ± 0.042 χ^2/NDF : 131507.1/34

In: -22.902 ± 0.032 χ^2/NDF : 119965.8/24

Out: -24.438 ± 0.033 χ^2/NDF : 198426.8/28

All: -23.646 ± 0.023 χ^2/NDF : 319501.3/53

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -442.182 ± 2.682 $\chi^2/\text{NDF}: 1589.1/15$

Left Out: -468.839 ± 2.967 $\chi^2/\text{NDF}: 441.2/9$

Right Out: -416.259 ± 2.523 $\chi^2/\text{NDF}: 1753.8/18$

Left In: -488.854 ± 3.129 $\chi^2/\text{NDF}: 72.1/8$

Left: -478.315 ± 2.153 $\chi^2/\text{NDF}: 534.8/18$

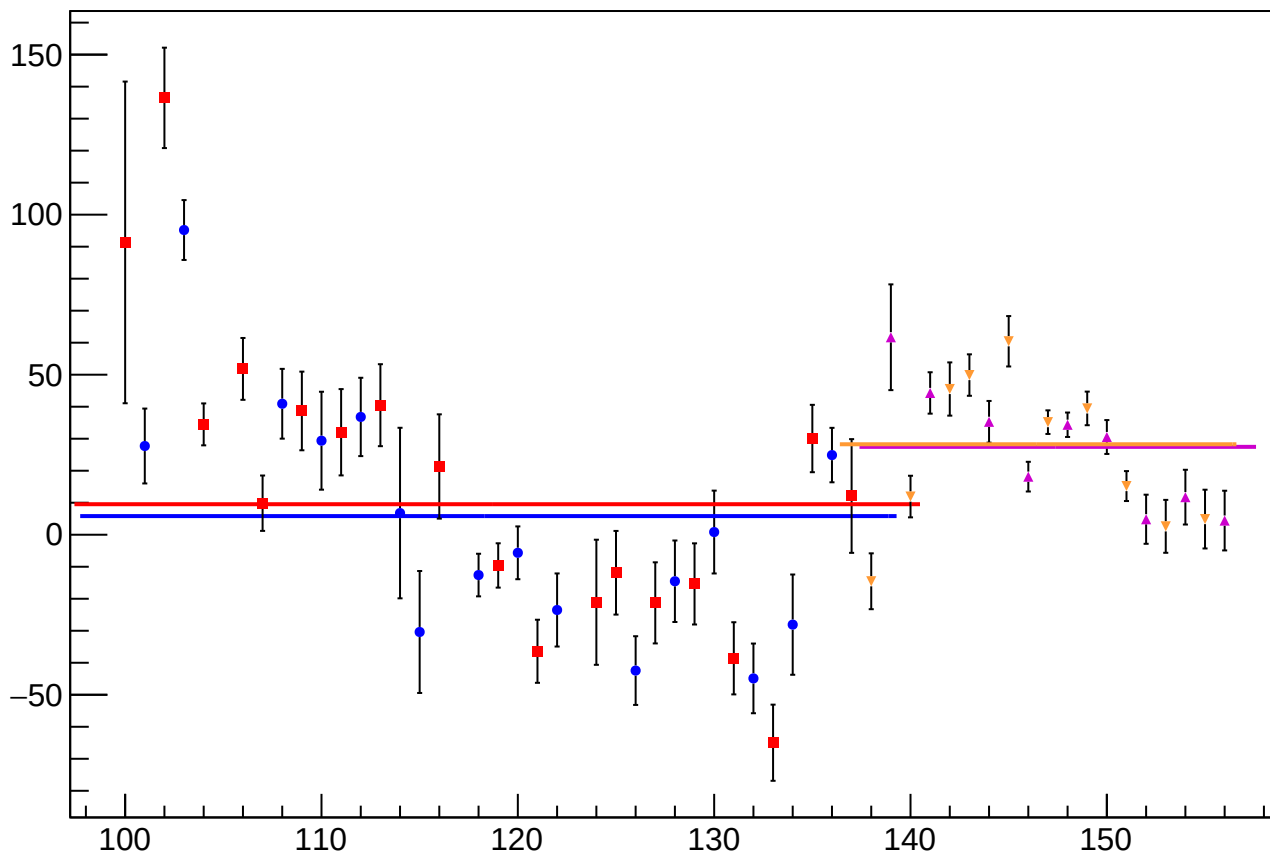
Right: -428.429 ± 1.837 $\chi^2/\text{NDF}: 3392.5/34$

In: -461.950 ± 2.036 $\chi^2/\text{NDF}: 1789.4/24$

Out: -438.323 ± 1.922 $\chi^2/\text{NDF}: 2377.4/28$

All: -449.454 ± 1.398 $\chi^2/\text{NDF}: 4238.0/53$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.824 $\pm$ 2.728 χ^2/NDF : 188.1/15

Left Out: 28.264 $\pm$ 1.913 χ^2/NDF : 94.5/9

Right Out: 9.536 $\pm$ 2.556 χ^2/NDF : 222.2/18

Left In: 27.458 $\pm$ 2.024 χ^2/NDF : 38.3/8

Left: 27.884 $\pm$ 1.390 χ^2/NDF : 132.9/18

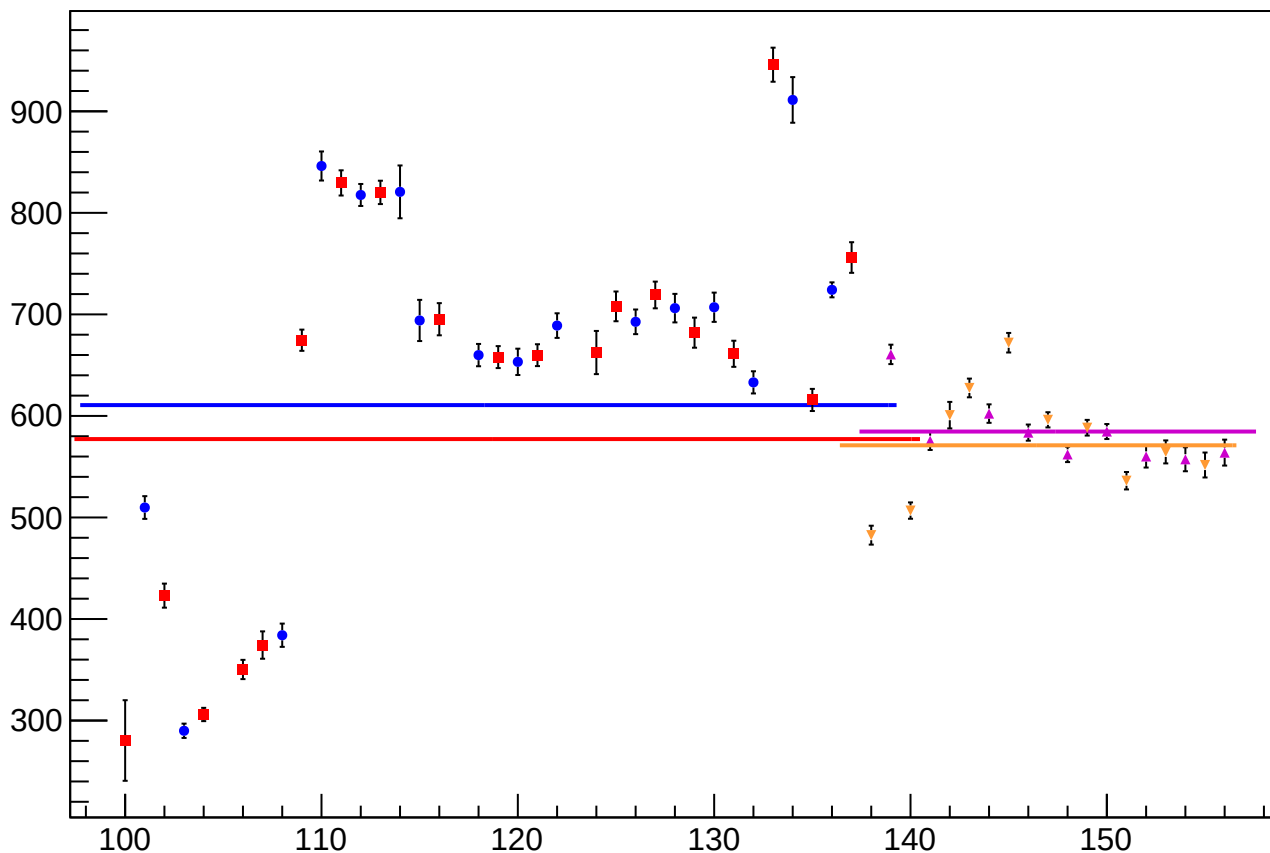
Right: 7.800 $\pm$ 1.865 χ^2/NDF : 411.3/34

In: 19.778 $\pm$ 1.625 χ^2/NDF : 267.0/24

Out: 21.541 $\pm$ 1.532 χ^2/NDF : 351.1/28

All: 20.712 $\pm$ 1.115 χ^2/NDF : 618.7/53

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: 571.069 $\pm$ 2.912 χ^2 /NDF:342.3/9

Right Out: 577.205 $\pm$ 2.755 χ^2 /NDF: 4800.3/18

Left In: 584.614 $\pm$ 3.038 χ^2 /NDF:89.8/8

Left: 577.554 $\pm$ 2.102 χ^2 /NDF: 442.5/18

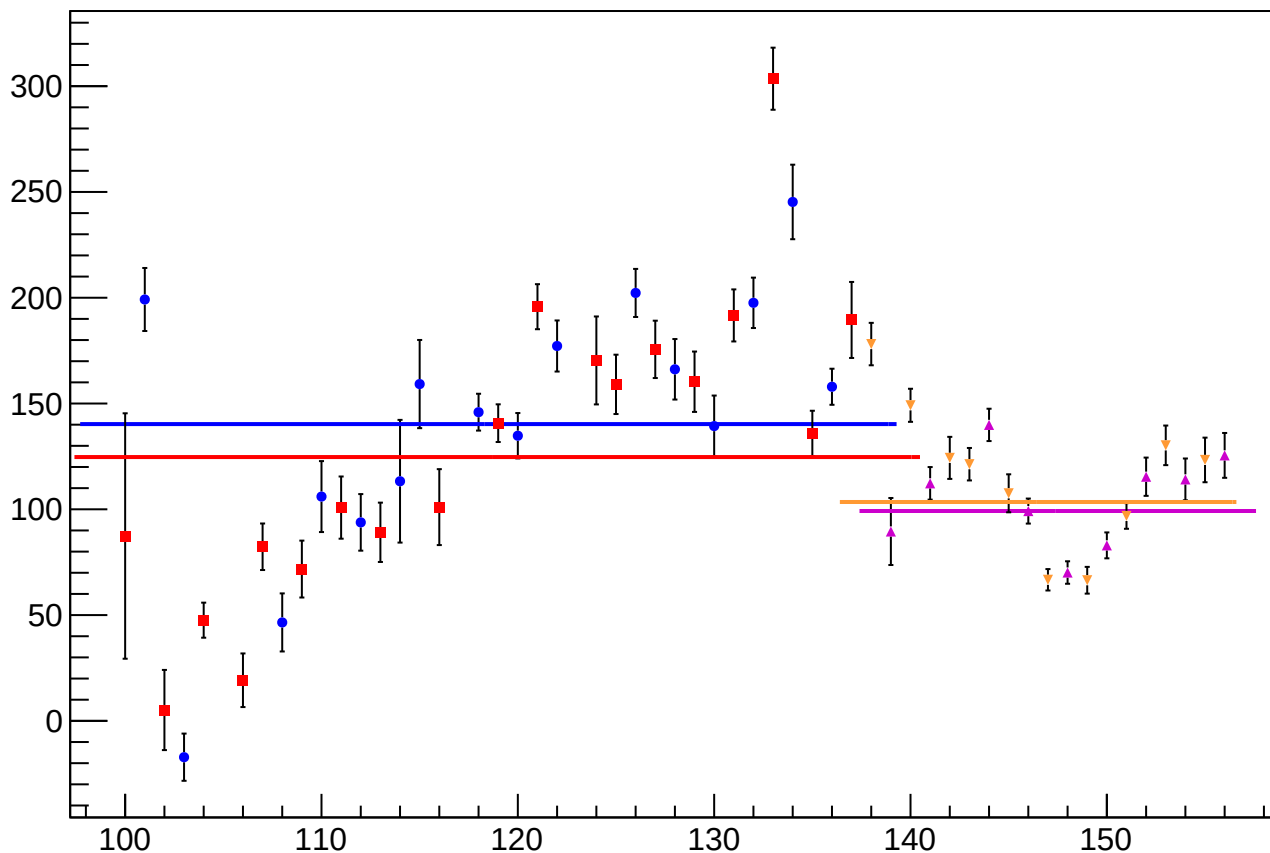
Right: 593.122 $\pm$ 1.995 χ^2 /NDF: 8763.0/34

In: 598.278 $\pm$ 2.095 χ^2 /NDF:4020.9/24

Out: 574.306 $\pm$ 2.001 χ^2 /NDF:5145.0/28

All: 585.745 $\pm$ 1.447 χ^2 /NDF: 9234.4/53

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: 103.456 $\pm$ 2.374 χ^2 /NDF:199.6/9

Right Out: 124.697 $\pm$ 2.979 χ^2 /NDF: 508.5/18

Left In: 99.197 $\pm$ 2.499 χ^2 /NDF:80.3/8

Left: 101.436 $\pm$ 1.721 χ^2 /NDF: 281.4/18

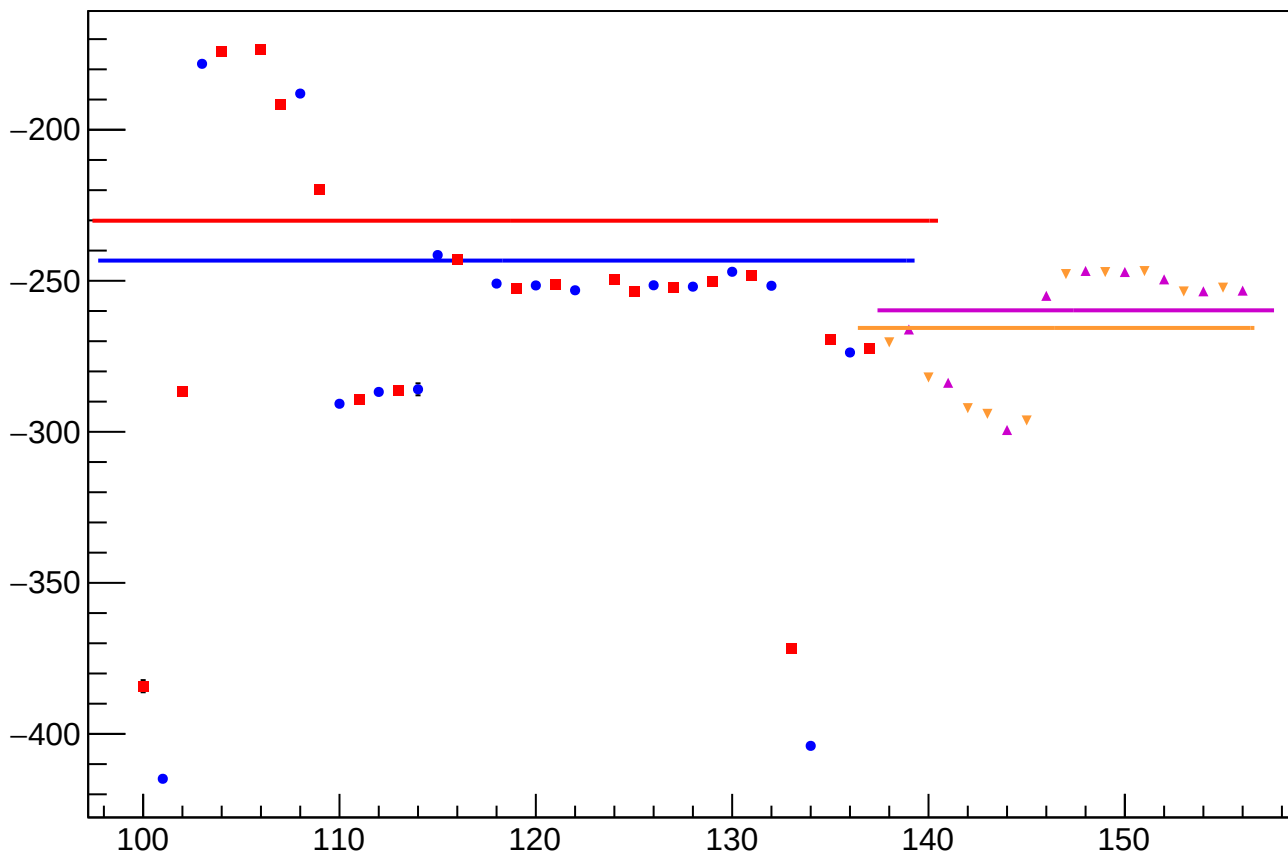
Right: 132.049 $\pm$ 2.165 χ^2 /NDF: 906.8/34

In: 115.061 $\pm$ 1.958 χ^2 /NDF:570.0/24

Out: 111.708 $\pm$ 1.856 χ^2 /NDF:739.2/28

All: 113.295 $\pm$ 1.347 χ^2 /NDF: 1310.8/53

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -243.308+/-0.163 χ^2/NDF : 173487.9/15

Left Out: -265.605+/-0.118 χ^2/NDF : 27766.9/9

Right Out: -230.109+/-0.157 χ^2/NDF : 102451.2/18

Left In: -259.779+/-0.119 χ^2/NDF : 18944.4/8

Left: -262.706+/-0.084 χ^2/NDF : 47919.5/18

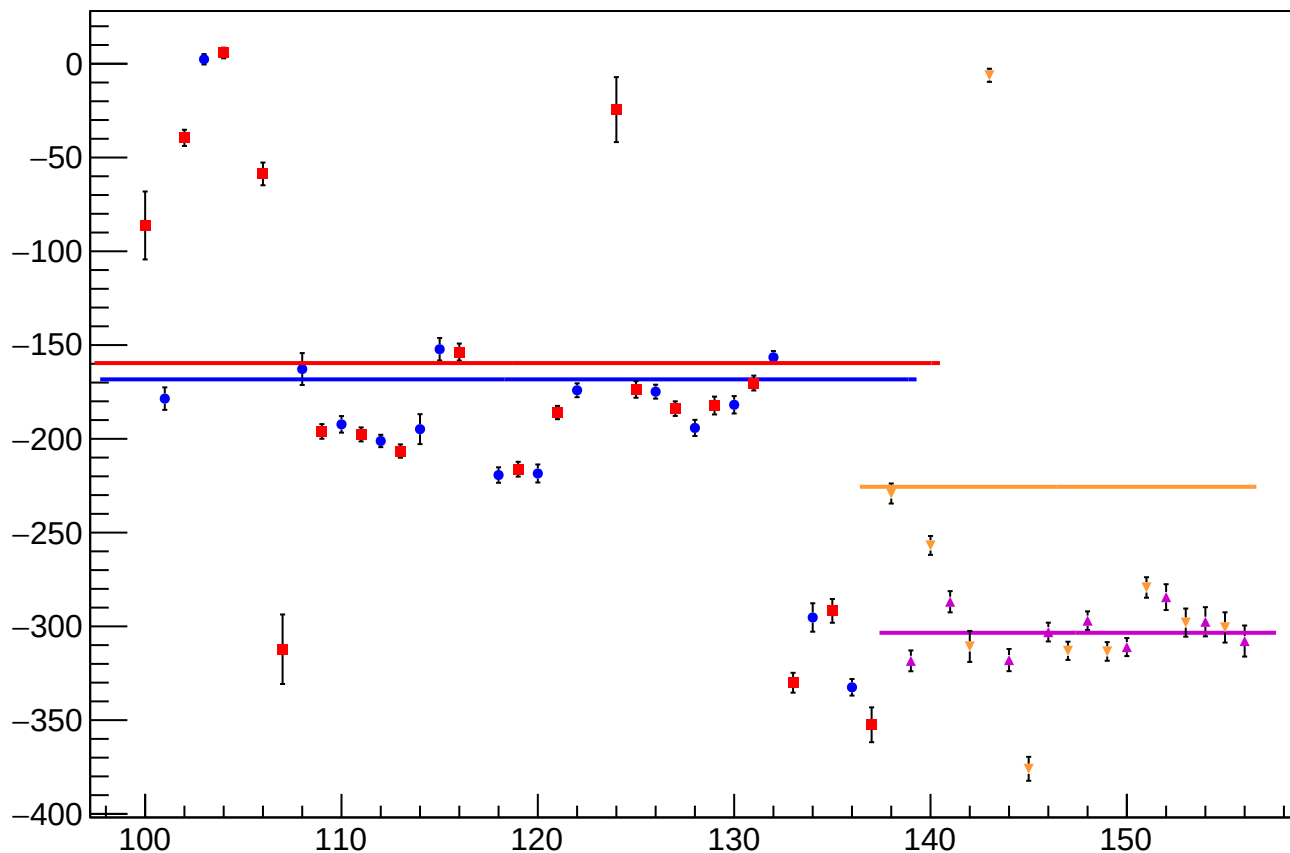
Right: -236.496+/-0.113 χ^2/NDF : 279343.3/34

In: -254.043+/-0.096 χ^2/NDF : 199127.4/24

Out: -252.795+/-0.095 χ^2/NDF : 162735.2/28

All: -253.410+/-0.067 χ^2/NDF : 361948.4/53

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: -225.566 ± 1.704 χ^2/NDF : 5522.5/9

Right Out: -159.602 ± 1.042 χ^2/NDF : 7197.9/18

Left In: -303.424 ± 1.931 χ^2/NDF : 34.5/8

Left: -259.643 ± 1.278 χ^2/NDF : 6471.1/18

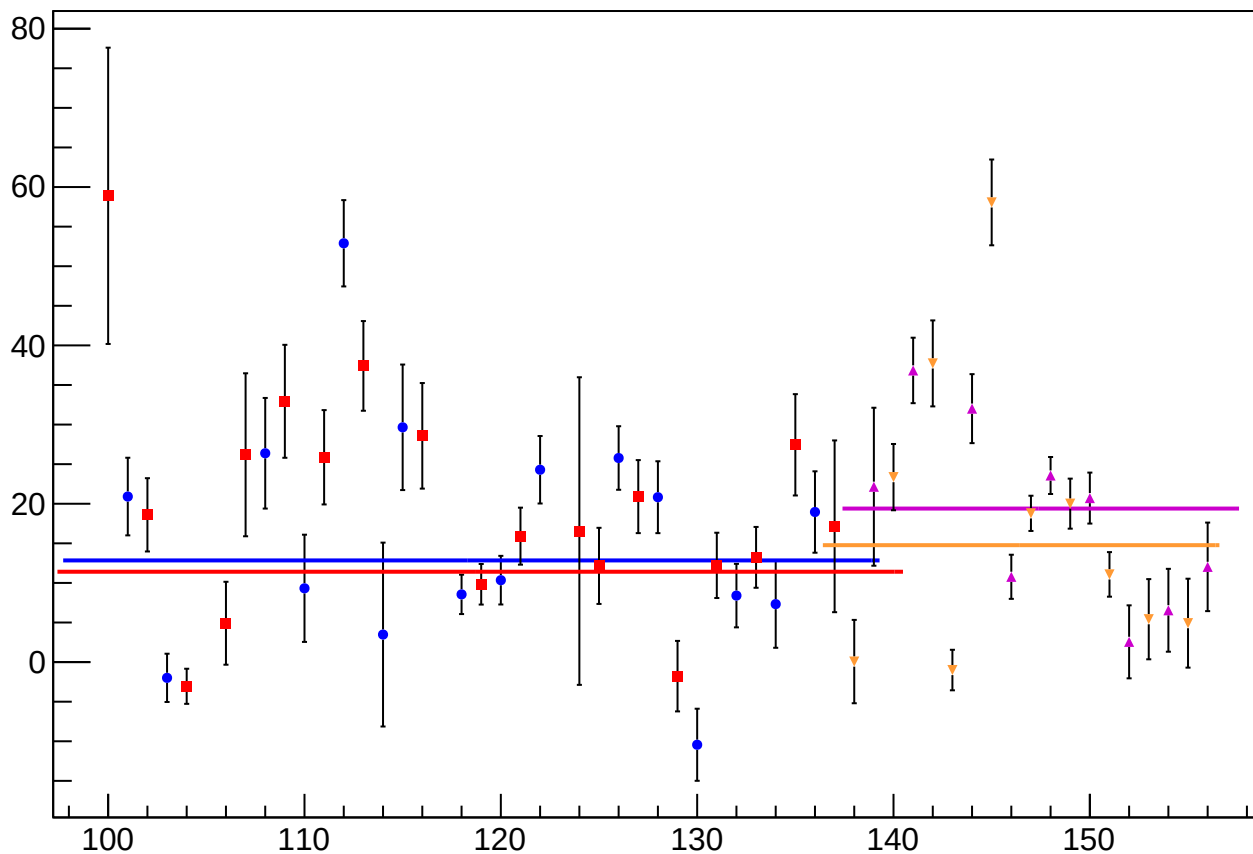
Right: -163.809 ± 0.749 χ^2/NDF : 13139.1/34

In: -200.293 ± 0.940 χ^2/NDF : 9679.0/24

Out: -177.567 ± 0.889 χ^2/NDF : 13811.2/28

All: -188.301 ± 0.646 χ^2/NDF : 23798.8/53

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.842 ± 1.076 $\chi^2/\text{NDF}: 143.7/15$

Left Out: 14.768 ± 1.109 $\chi^2/\text{NDF}: 146.0/9$

Right Out: 11.414 ± 1.035 $\chi^2/\text{NDF}: 119.6/18$

Left In: 19.392 ± 1.245 $\chi^2/\text{NDF}: 60.3/8$

Left: 16.814 ± 0.828 $\chi^2/\text{NDF}: 213.9/18$

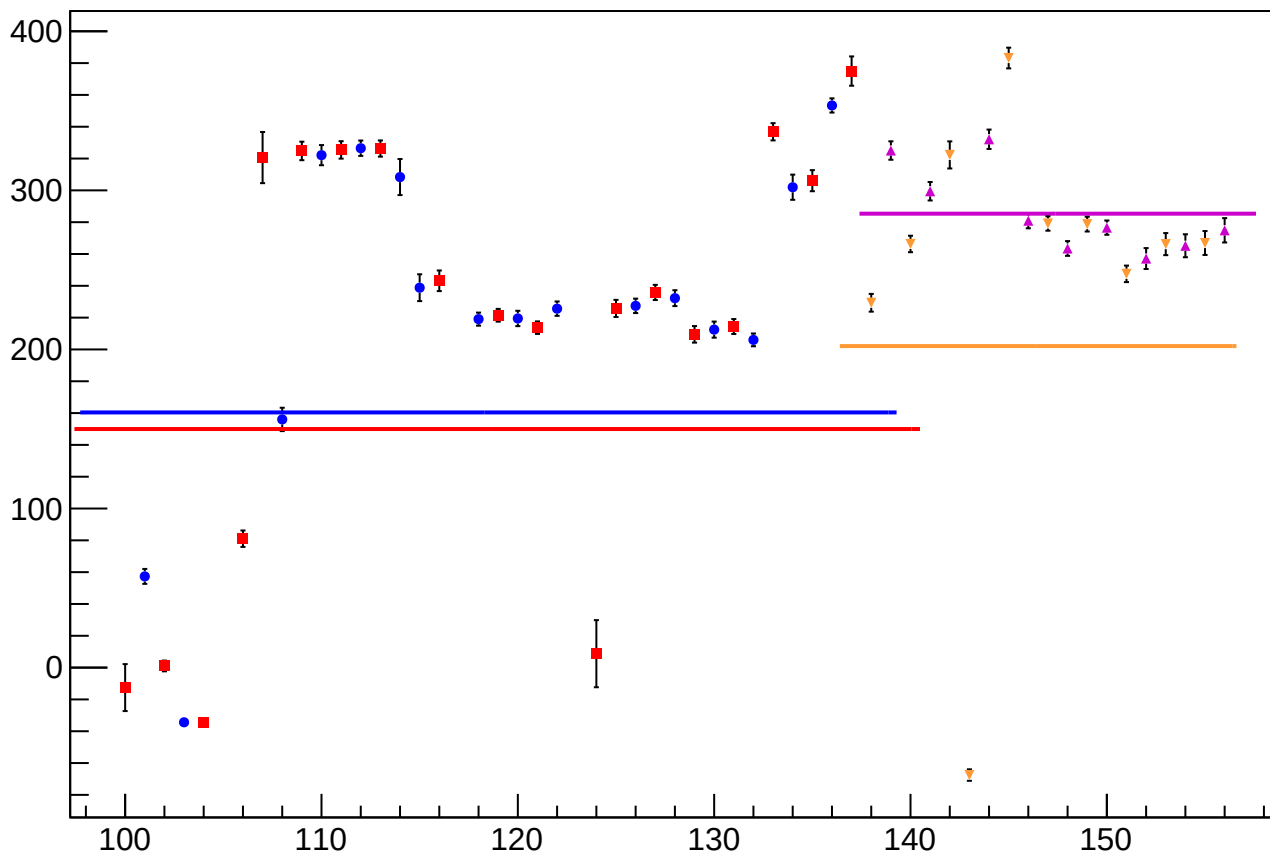
Right: 12.100 ± 0.746 $\chi^2/\text{NDF}: 264.2/34$

In: 15.644 ± 0.814 $\chi^2/\text{NDF}: 219.8/24$

Out: 12.976 ± 0.757 $\chi^2/\text{NDF}: 270.4/28$

All: 14.213 ± 0.554 $\chi^2/\text{NDF}: 496.0/53$

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: 202.106 $\pm$ 1.679 χ^2 /NDF: 7530.0/9

Right Out: 149.974 $\pm$ 1.107 χ^2 /NDF: 16265.2/18

Left In: 285.341 $\pm$ 1.872 χ^2 /NDF: 166.8/8

Left: 239.233 $\pm$ 1.250 χ^2 /NDF: 8792.3/18

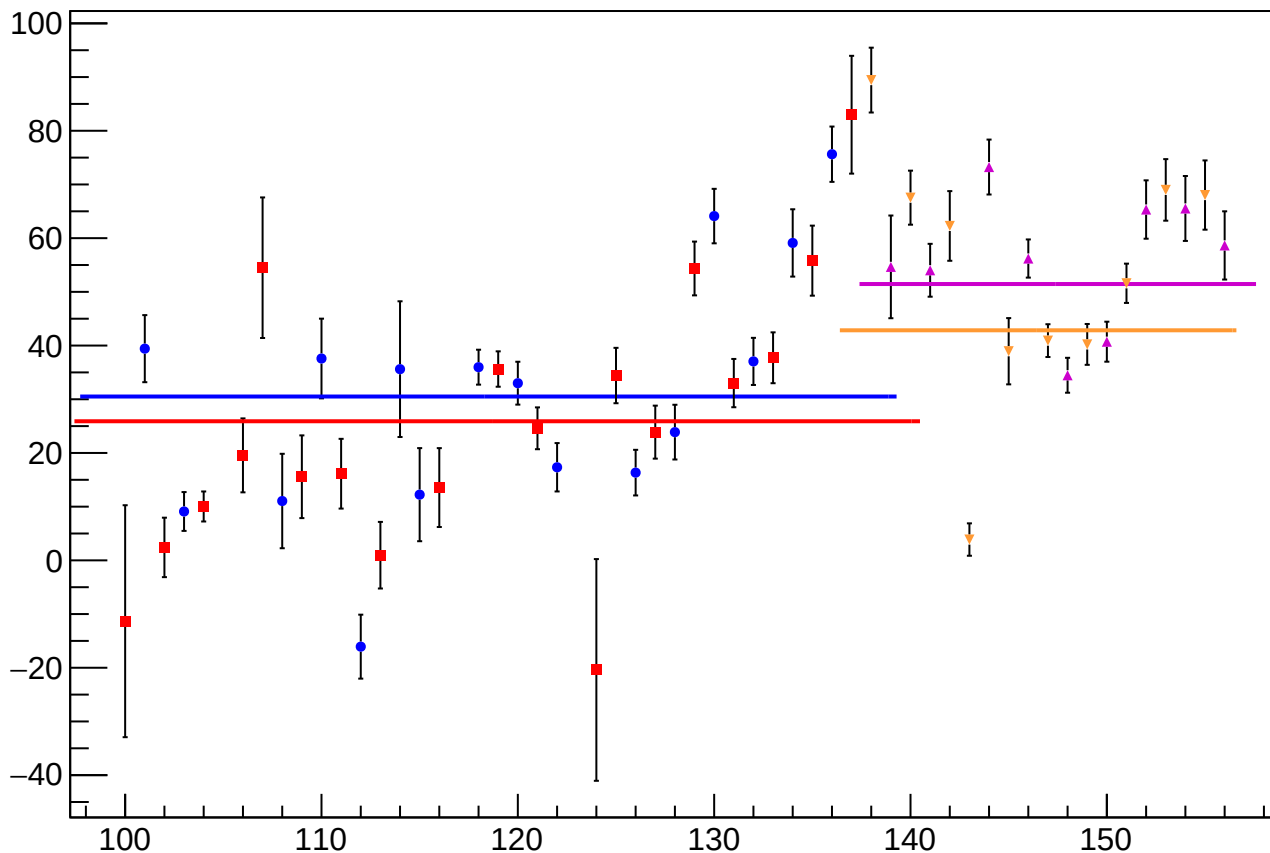
Right: 155.041 $\pm$ 0.794 χ^2 /NDF: 30258.1/34

In: 194.171 $\pm$ 0.973 χ^2 /NDF: 17368.2/24

Out: 165.758 $\pm$ 0.924 χ^2 /NDF: 24466.9/28

All: 179.234 $\pm$ 0.670 χ^2 /NDF: 42283.4/53

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 30.510 ± 1.255 χ^2/NDF : 276.9/15

Left Out: 42.842 ± 1.370 χ^2/NDF : 302.5/9

Right Out: 25.903 ± 1.213 χ^2/NDF : 187.8/18

Left In: 51.459 ± 1.539 χ^2/NDF : 69.2/8

Left: 46.653 ± 1.023 χ^2/NDF : 389.2/18

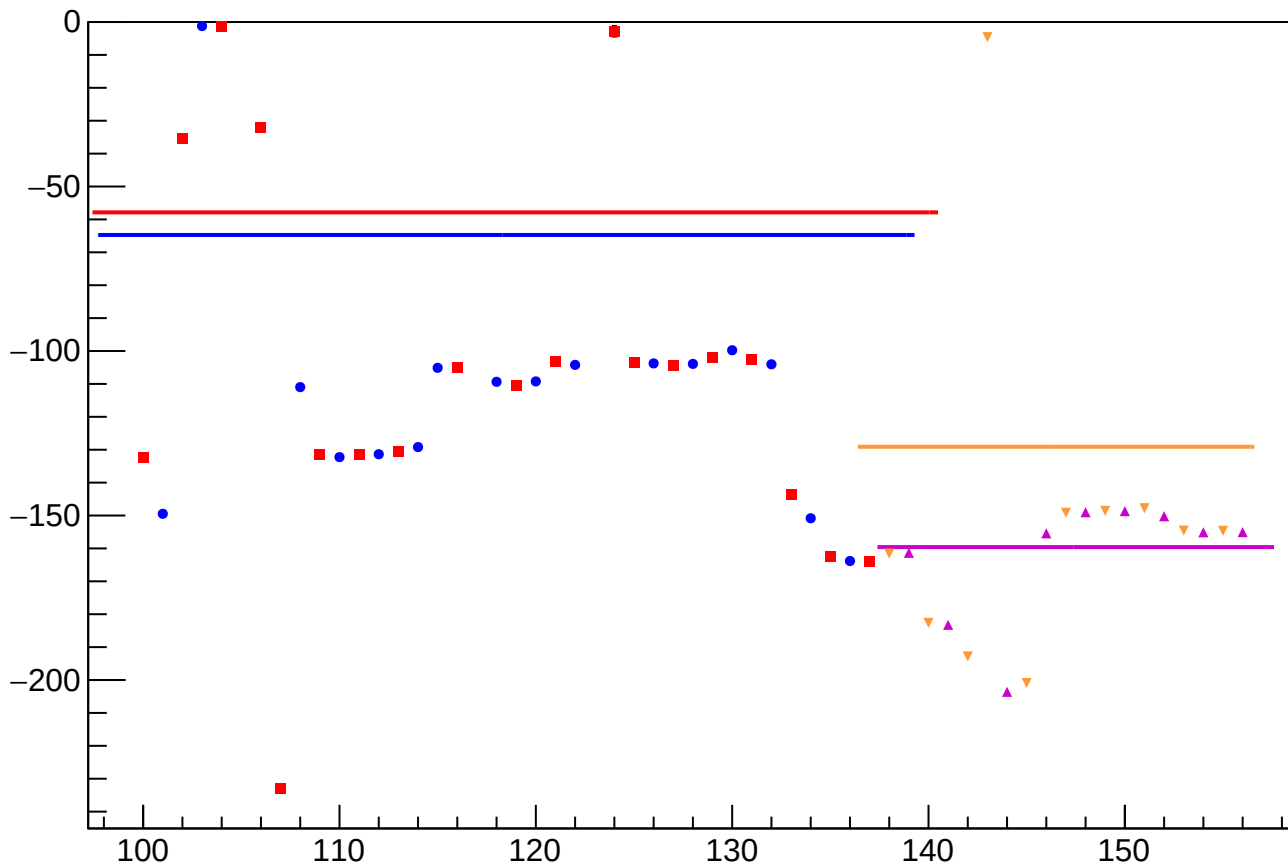
Right: 28.129 ± 0.872 χ^2/NDF : 471.7/34

In: 38.874 ± 0.972 χ^2/NDF : 457.4/24

Out: 33.344 ± 0.908 χ^2/NDF : 576.0/28

All: 35.921 ± 0.664 χ^2/NDF : 1050.7/53

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -64.726 ± 0.064 $\chi^2/\text{NDF}: 1044441.7/15$

Left Out: -129.106 ± 0.068 $\chi^2/\text{NDF}: 925780.7/9$

Right Out: -57.855 ± 0.062 $\chi^2/\text{NDF}: 875795.9/18$

Left In: -159.591 ± 0.073 $\chi^2/\text{NDF}: 45314.5/8$

Left: -143.351 ± 0.050 $\chi^2/\text{NDF}: 1064163.5/18$

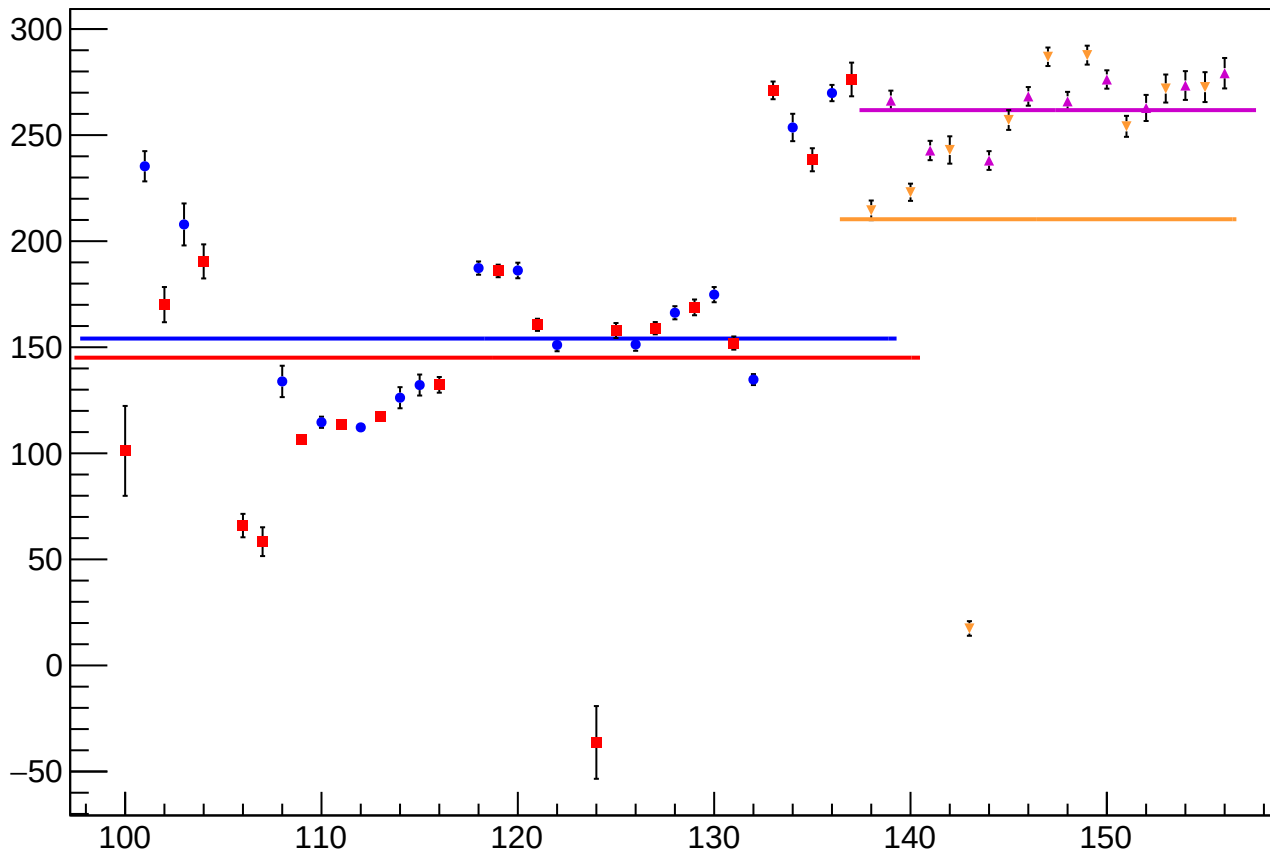
Right: -61.201 ± 0.045 $\chi^2/\text{NDF}: 1926190.0/34$

In: -105.843 ± 0.048 $\chi^2/\text{NDF}: 2048247.5/24$

Out: -90.124 ± 0.046 $\chi^2/\text{NDF}: 2396825.8/28$

All: -97.641 ± 0.033 $\chi^2/\text{NDF}: 4500989.0/53$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 154.096+/-0.869 χ^2/NDF : 2281.1/15

Left Out: 210.339+/-1.494 χ^2/NDF : 4124.0/9

Right Out: 145.083+/-0.826 χ^2/NDF : 2958.4/18

Left In: 261.775+/-1.649 χ^2/NDF : 70.3/8

Left: 233.517+/-1.107 χ^2/NDF : 4728.6/18

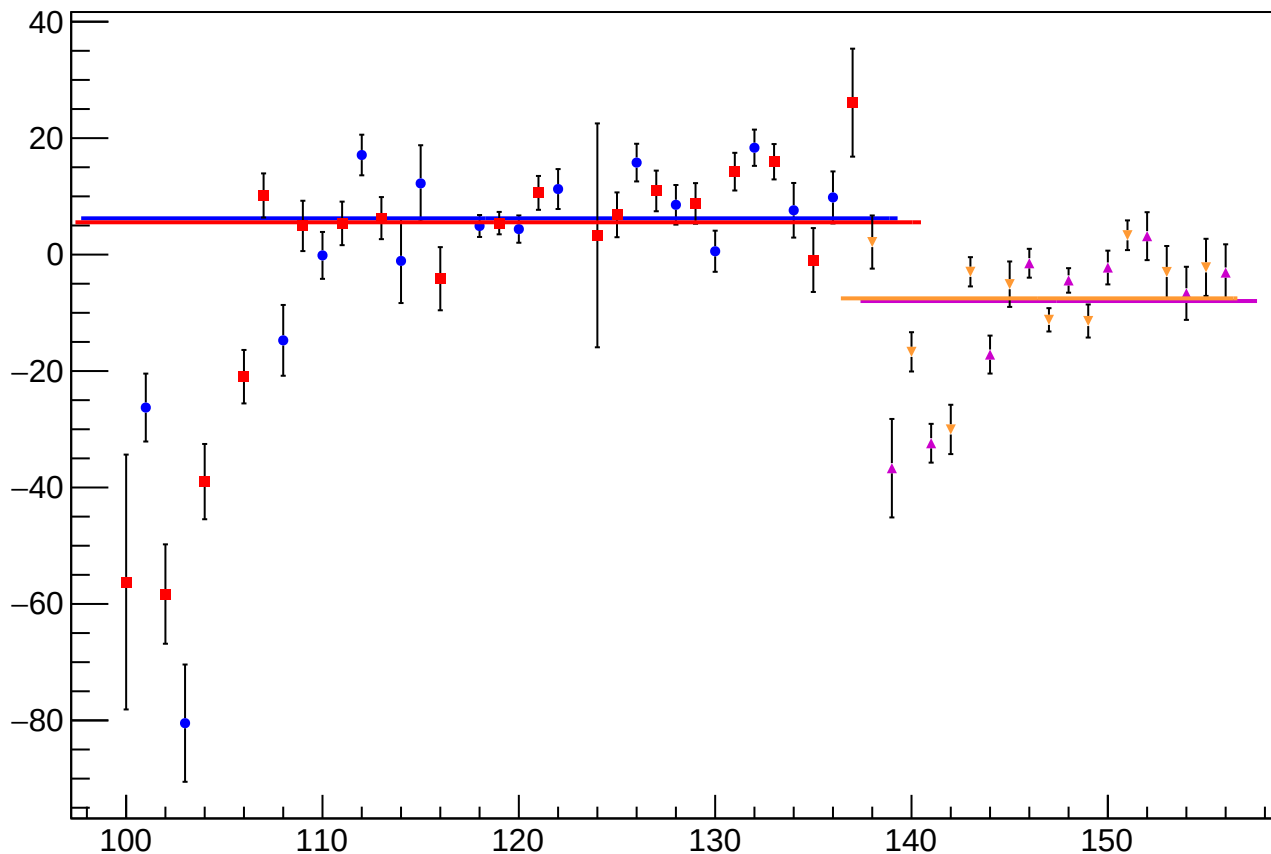
Right: 149.361+/-0.599 χ^2/NDF : 5296.0/34

In: 177.499+/-0.769 χ^2/NDF : 5687.6/24

Out: 160.366+/-0.723 χ^2/NDF : 8544.0/28

All: 168.404+/-0.527 χ^2/NDF : 14495.1/53

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: -7.517 ± 0.983 χ^2/NDF : 69.4/9

Right Out: 5.548 ± 0.889 χ^2/NDF : 181.1/18

Left In: -7.974 ± 1.081 χ^2/NDF : 95.3/8

Left: -7.724 ± 0.727 χ^2/NDF : 164.8/18

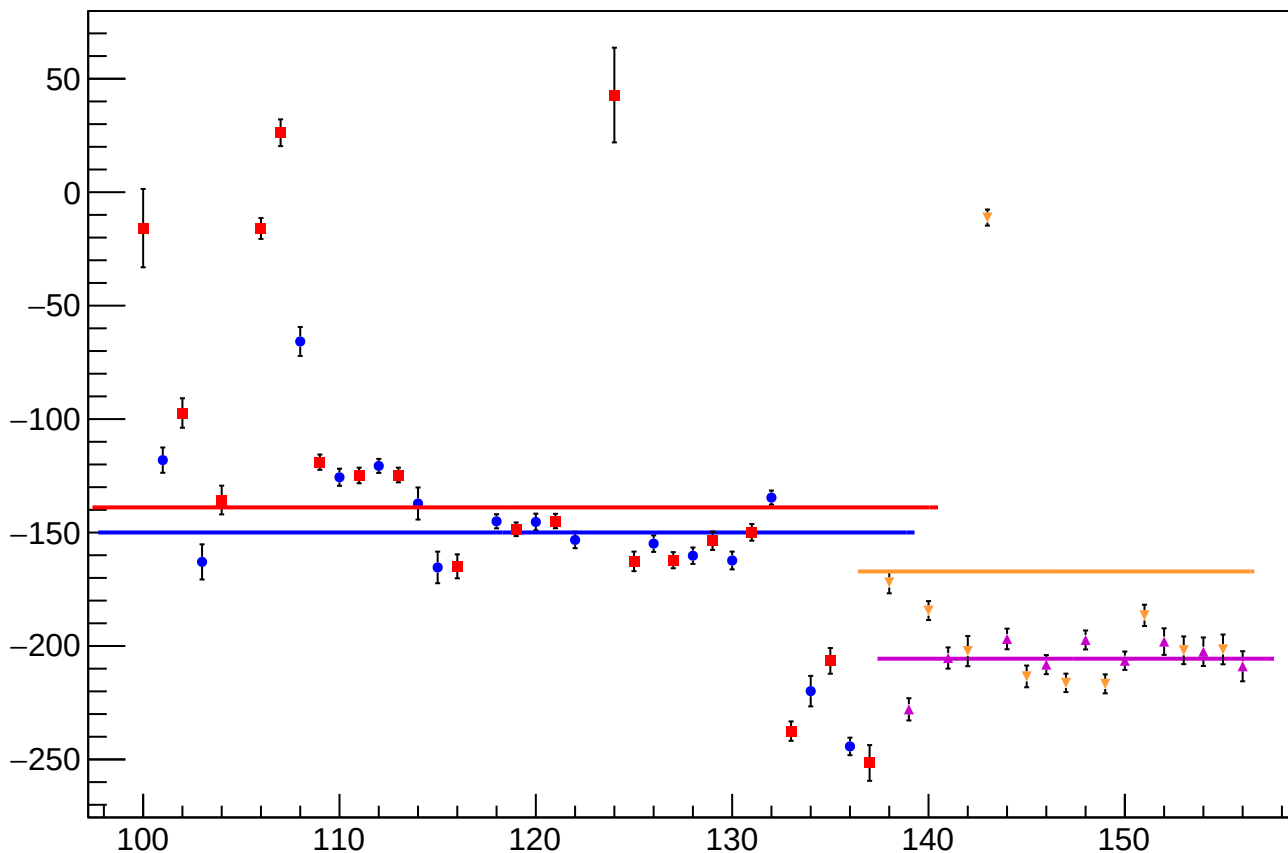
Right: 5.888 ± 0.629 χ^2/NDF : 343.5/34

In: 0.491 ± 0.687 χ^2/NDF : 360.3/24

Out: -0.330 ± 0.660 χ^2/NDF : 347.6/28

All: 0.064 ± 0.476 χ^2/NDF : 708.6/53

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: -167.155 ± 1.475 $\chi^2/\text{NDF}: 2440.0/9$

Right Out: -138.912 ± 0.993 $\chi^2/\text{NDF}: 2750.9/18$

Left In: -205.613 ± 1.606 $\chi^2/\text{NDF}: 30.9/8$

Left: -184.760 ± 1.086 $\chi^2/\text{NDF}: 2781.9/18$

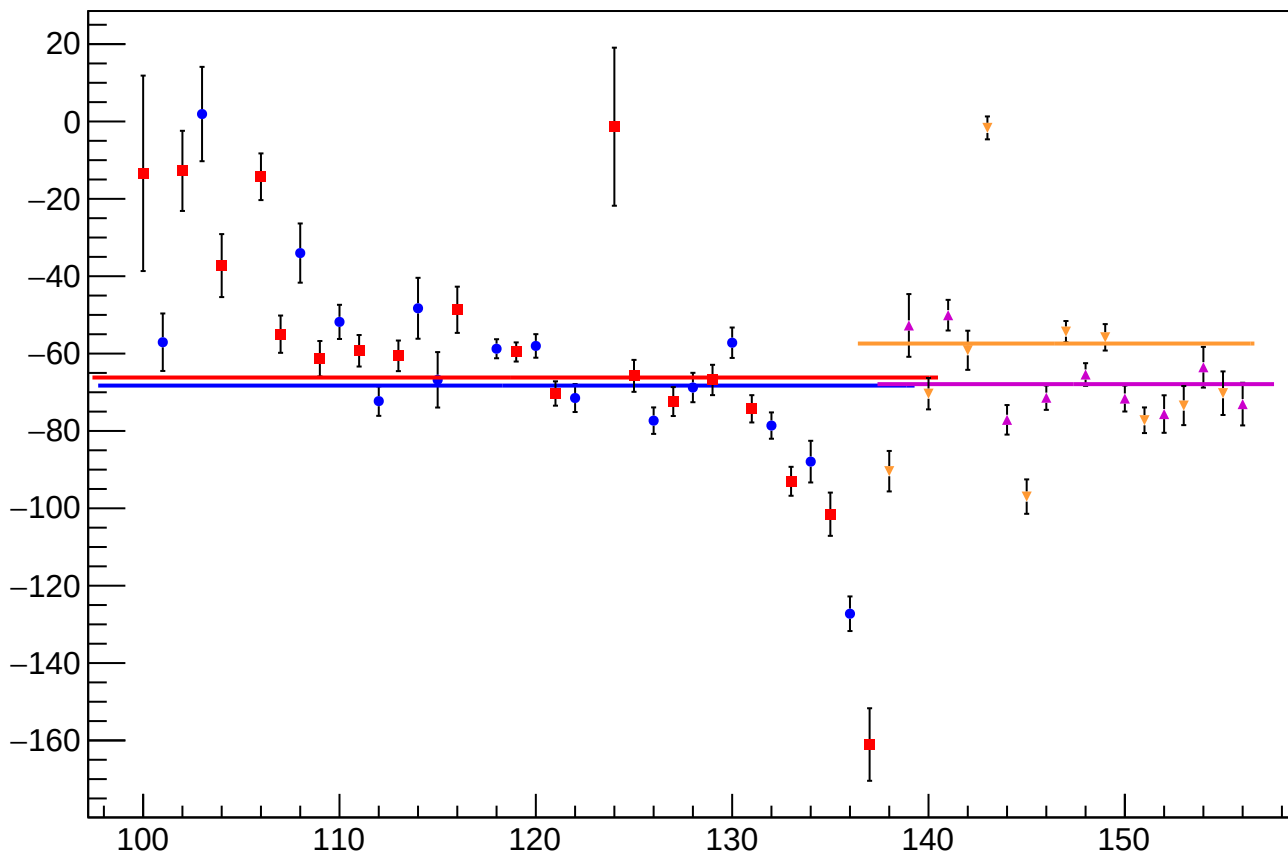
Right: -144.265 ± 0.714 $\chi^2/\text{NDF}: 3910.3/34$

In: -166.093 ± 0.864 $\chi^2/\text{NDF}: 1983.3/24$

Out: -147.723 ± 0.824 $\chi^2/\text{NDF}: 5443.0/28$

All: -156.470 ± 0.596 $\chi^2/\text{NDF}: 7662.9/53$

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: -57.405 ± 1.212 χ^2/NDF : 536.0/9

Right Out: -66.186 ± 1.024 χ^2/NDF : 358.3/18

Left In: -67.898 ± 1.330 χ^2/NDF : 36.9/8

Left: -62.166 ± 0.896 χ^2/NDF : 606.8/18

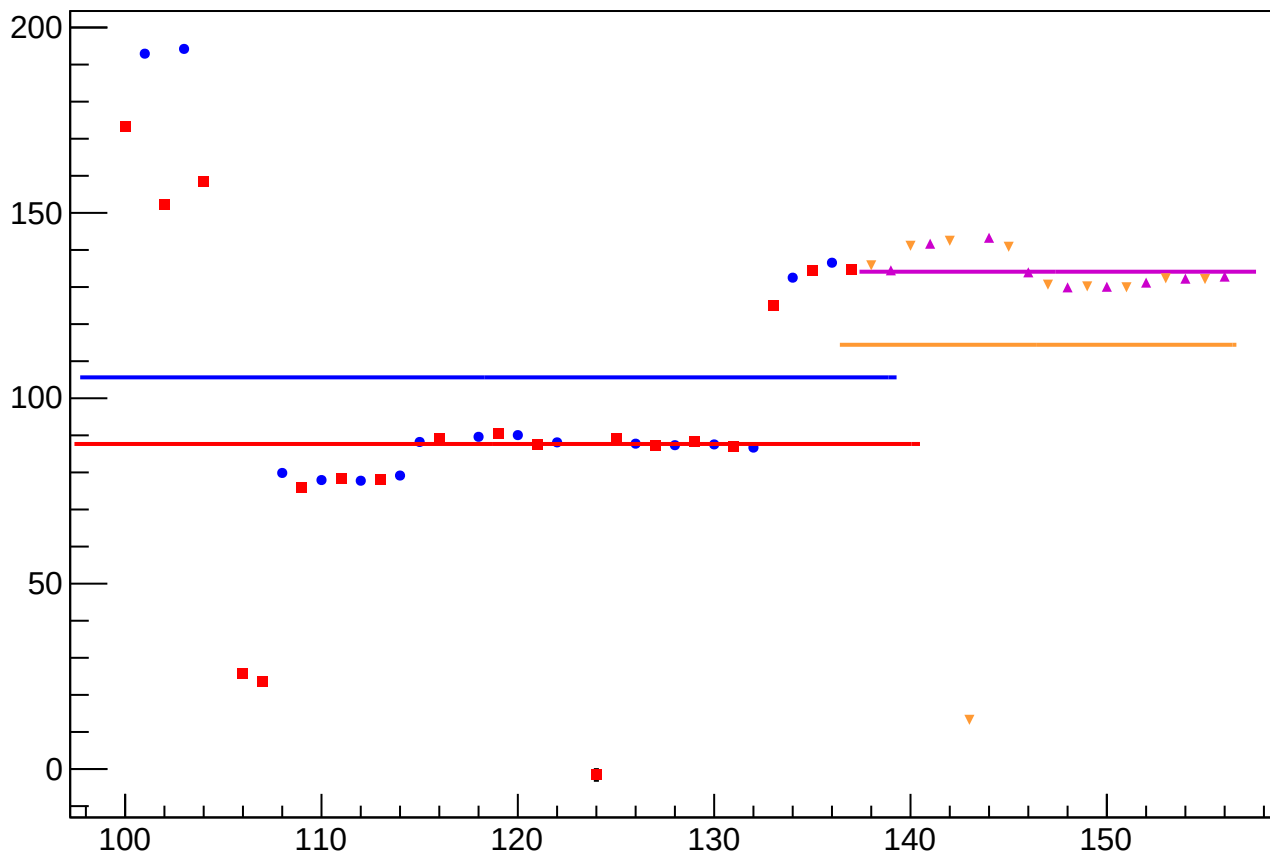
Right: -67.219 ± 0.727 χ^2/NDF : 675.8/34

In: -68.131 ± 0.816 χ^2/NDF : 352.3/24

Out: -62.529 ± 0.782 χ^2/NDF : 924.9/28

All: -65.212 ± 0.565 χ^2/NDF : 1301.8/53

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: 114.426 $\pm$ 0.060 χ^2 /NDF: 572587.6/9

Right Out: 87.673 $\pm$ 0.066 χ^2 /NDF: 374460.7/18

Left In: 134.133 $\pm$ 0.063 χ^2 /NDF: 5133.2/8

Left: 123.826 $\pm$ 0.043 χ^2 /NDF: 629232.1/18

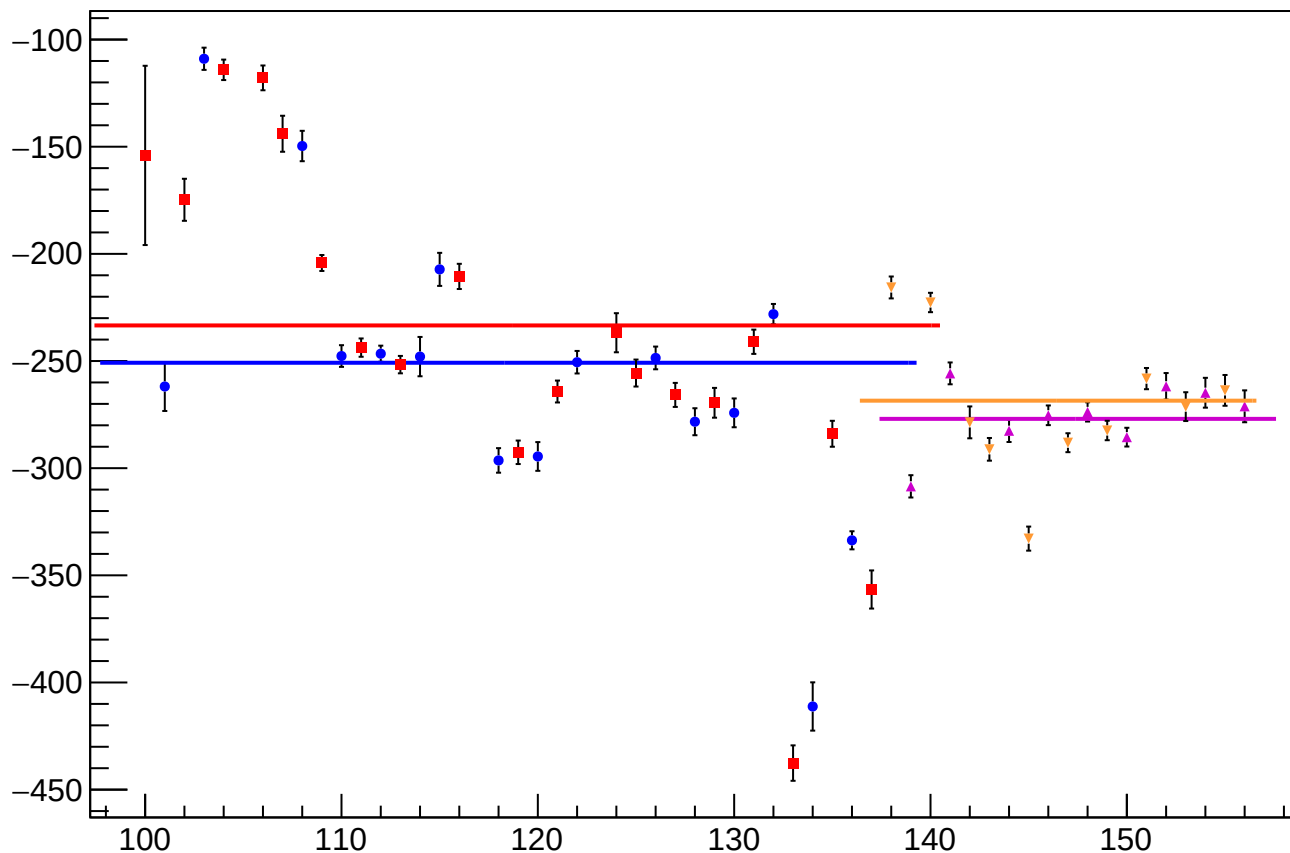
Right: 95.972 $\pm$ 0.048 χ^2 /NDF: 648694.2/34

In: 121.594 $\pm$ 0.047 χ^2 /NDF: 335354.1/24

Out: 102.253 $\pm$ 0.044 χ^2 /NDF: 1037613.9/28

All: 111.348 $\pm$ 0.032 χ^2 /NDF: 1462721.7/53

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -250.812 ± 1.438 $\chi^2/\text{NDF}: 1735.7/15$

Left Out: -268.502 ± 1.679 $\chi^2/\text{NDF}: 395.3/9$

Right Out: -233.396 ± 1.333 $\chi^2/\text{NDF}: 2378.5/18$

Left In: -276.991 ± 1.752 $\chi^2/\text{NDF}: 69.2/8$

Left: -272.566 ± 1.212 $\chi^2/\text{NDF}: 476.8/18$

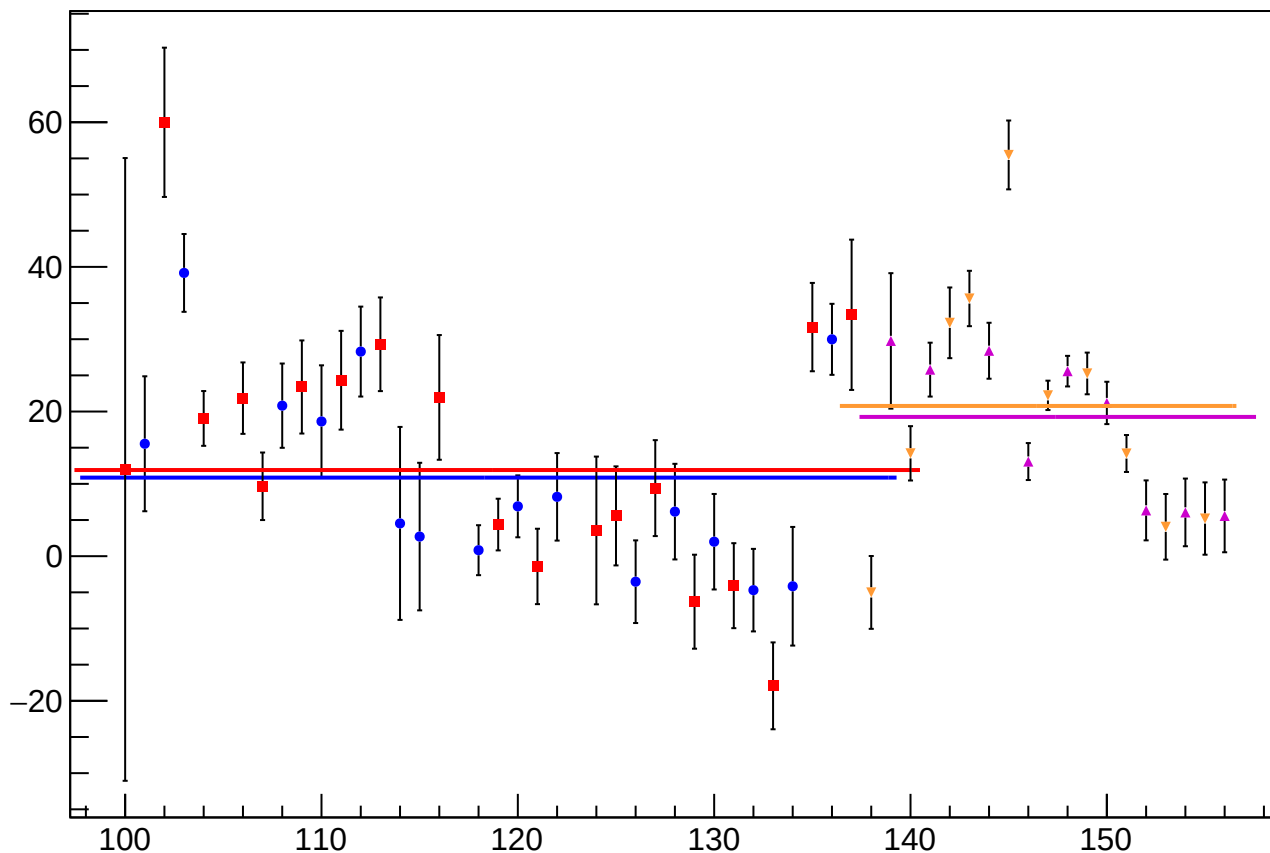
Right: -241.445 ± 0.978 $\chi^2/\text{NDF}: 4193.1/34$

In: -261.354 ± 1.112 $\chi^2/\text{NDF}: 1938.4/24$

Out: -246.976 ± 1.044 $\chi^2/\text{NDF}: 3042.0/28$

All: -253.715 ± 0.761 $\chi^2/\text{NDF}: 5069.3/53$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.864 ± 1.471 χ^2/NDF : 84.7/15

Left Out: 20.773 ± 1.073 χ^2/NDF : 135.8/9

Right Out: 11.912 ± 1.368 χ^2/NDF : 111.9/18

Left In: 19.256 ± 1.127 χ^2/NDF : 50.3/8

Left: 20.052 ± 0.777 χ^2/NDF : 187.0/18

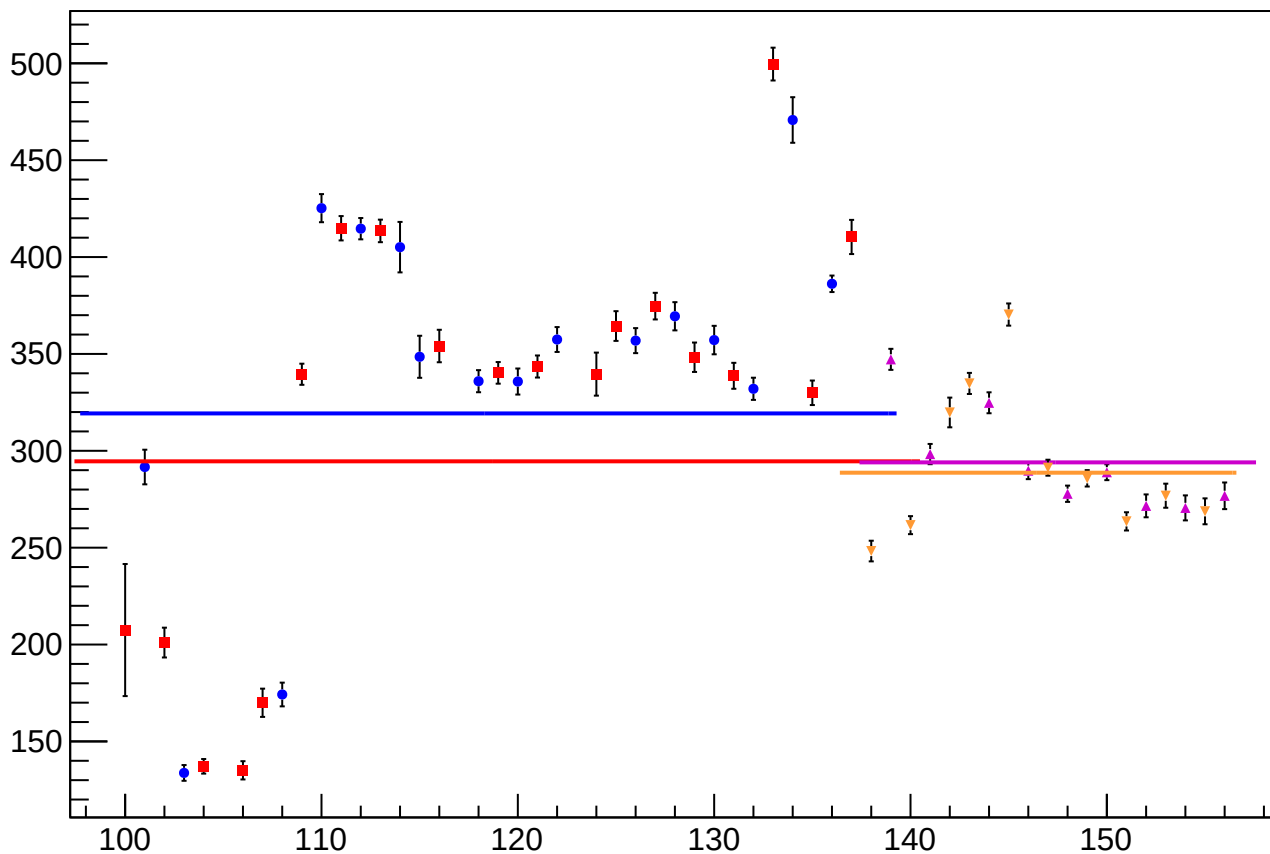
Right: 11.426 ± 1.001 χ^2/NDF : 196.9/34

In: 16.151 ± 0.895 χ^2/NDF : 155.4/24

Out: 17.398 ± 0.844 χ^2/NDF : 273.8/28

All: 16.811 ± 0.614 χ^2/NDF : 430.2/53

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 319.293+/-1.586 χ^2/NDF : 3792.9/15

Left Out: 288.698+/-1.642 χ^2/NDF : 424.6/9

Right Out: 294.567+/-1.481 χ^2/NDF : 5503.2/18

Left In: 294.026+/-1.697 χ^2/NDF : 180.5/8

Left: 291.275+/-1.180 χ^2/NDF : 610.2/18

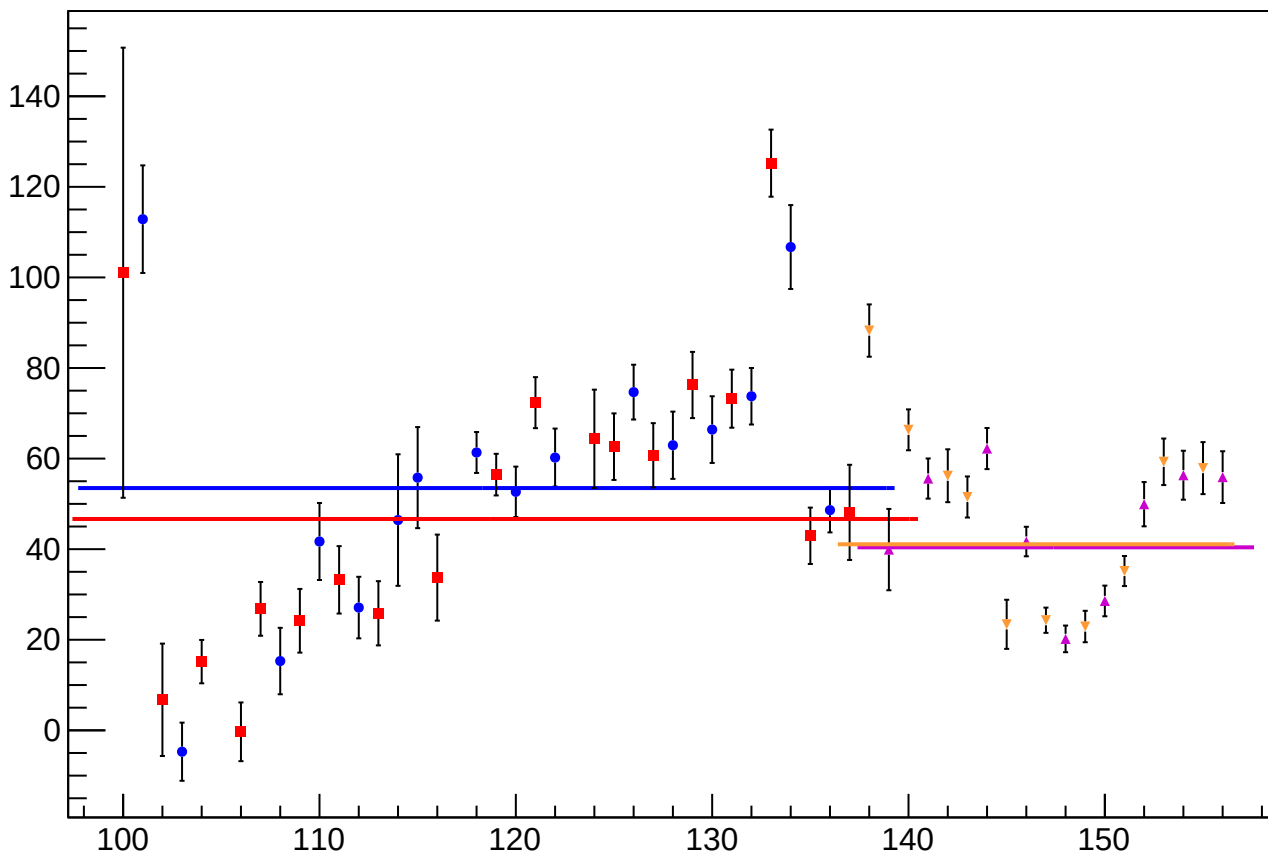
Right: 306.088+/-1.083 χ^2/NDF : 9425.9/34

In: 307.513+/-1.159 χ^2/NDF : 4091.7/24

Out: 291.934+/-1.100 χ^2/NDF : 5934.9/28

All: 299.319+/-0.798 χ^2/NDF : 10121.7/53

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.494 $\pm$ 1.699 χ^2 /NDF: 217.2/15

Left Out: 41.079 $\pm$ 1.334 χ^2 /NDF:208.7/9

Right Out: 46.666 $\pm$ 1.593 χ^2 /NDF: 325.6/18

Left In: 40.406 $\pm$ 1.393 χ^2 /NDF:114.2/8

Left: 40.757 $\pm$ 0.963 χ^2 /NDF: 323.1/18

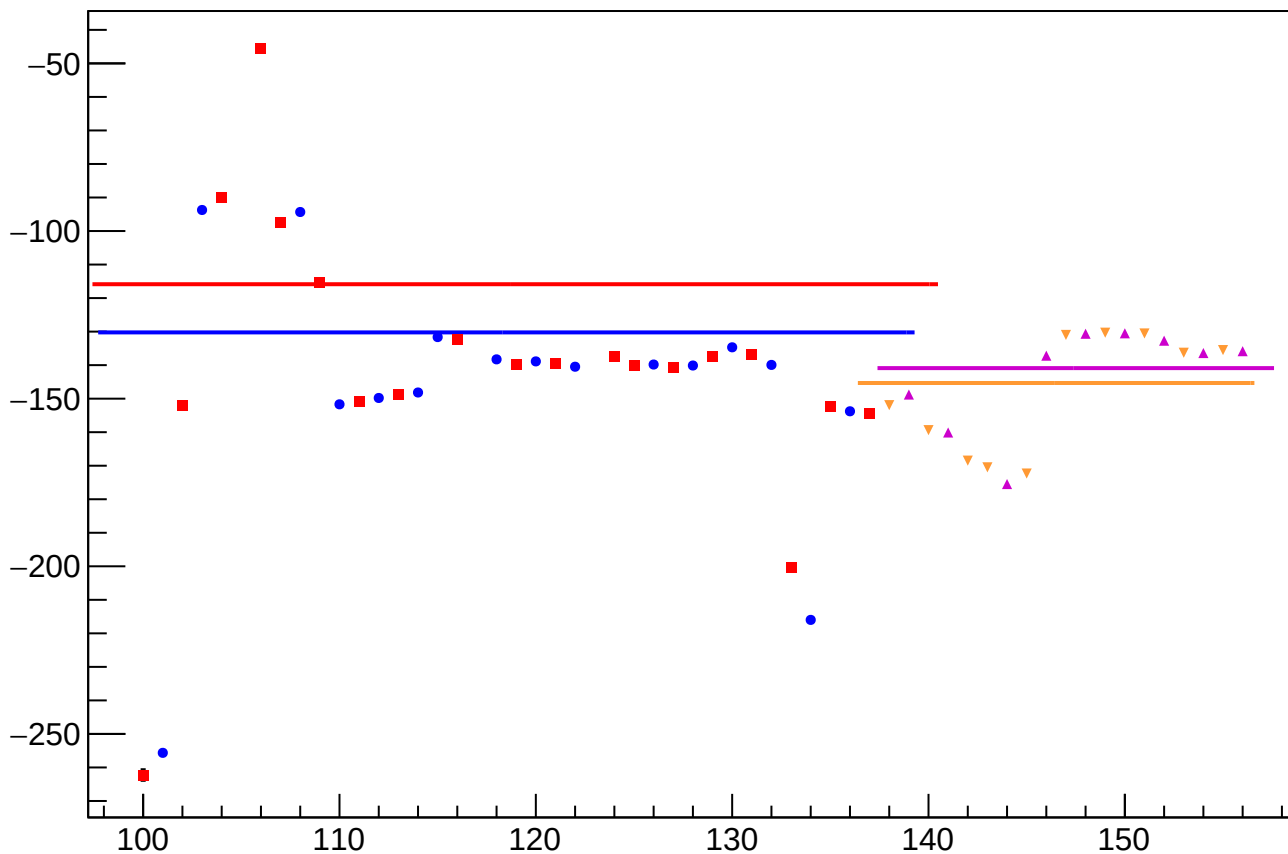
Right: 49.861 $\pm$ 1.162 χ^2 /NDF: 551.4/34

In: 45.668 $\pm$ 1.077 χ^2 /NDF:366.9/24

Out: 43.381 $\pm$ 1.023 χ^2 /NDF:541.6/28

All: 44.465 $\pm$ 0.742 χ^2 /NDF: 910.9/53

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: -145.326+/-0.067 χ^2/NDF : 60625.9/9

Right Out: -115.865+/-0.086 χ^2/NDF : 205899.4/18

Left In: -140.889+/-0.066 χ^2/NDF : 40457.8/8

Left: -143.094+/-0.047 χ^2/NDF : 103320.1/18

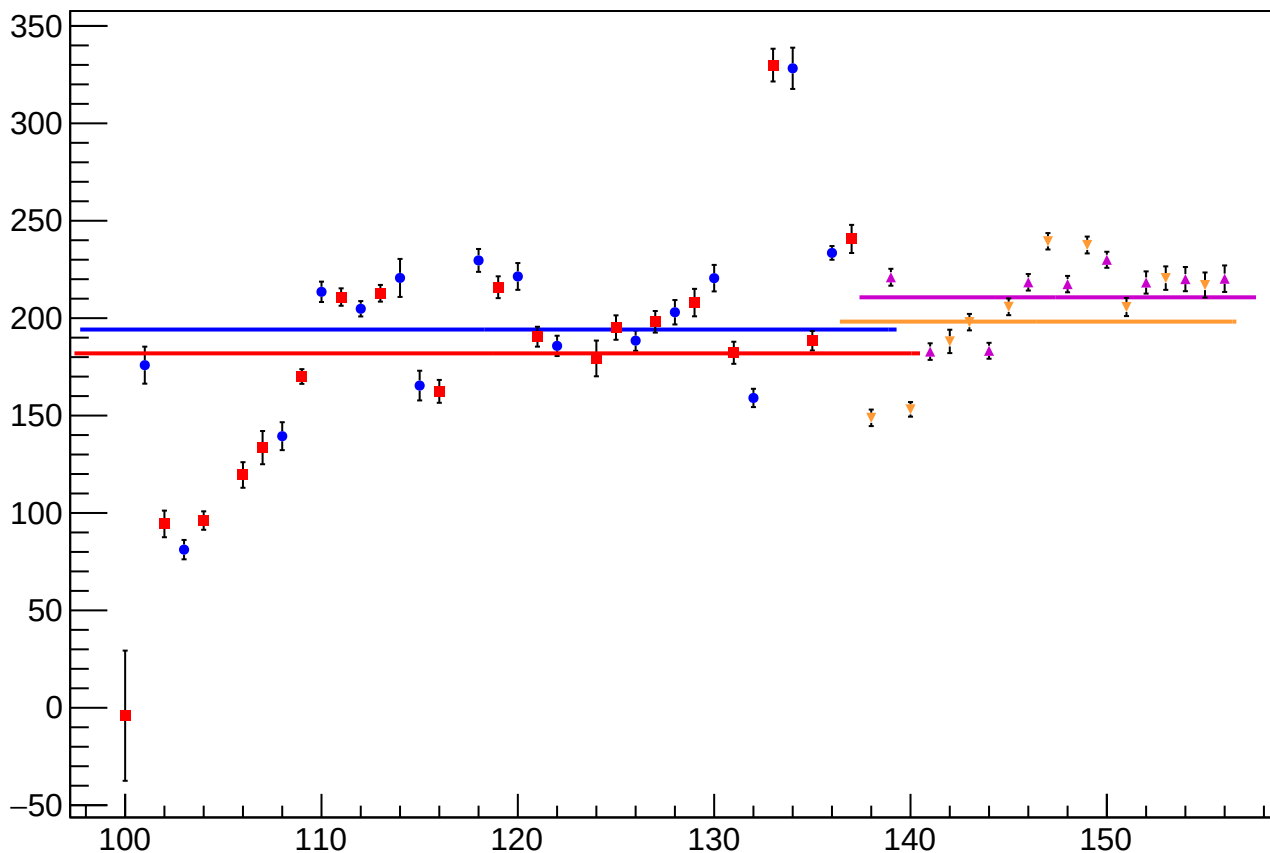
Right: -122.615+/-0.062 χ^2/NDF : 393311.6/34

In: -137.209+/-0.054 χ^2/NDF : 223620.3/24

Out: -134.247+/-0.053 χ^2/NDF : 340227.5/28

All: -135.701+/-0.038 χ^2/NDF : 565407.5/53

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 194.164 $\pm$ 1.407 χ^2 /NDF: 1035.2/15

Left Out: 198.234 $\pm$ 1.455 χ^2 /NDF: 489.5/9

Right Out: 181.928 $\pm$ 1.322 χ^2 /NDF: 1204.8/18

Left In: 210.702 $\pm$ 1.547 χ^2 /NDF: 127.5/8

Left: 204.084 $\pm$ 1.060 χ^2 /NDF: 651.5/18

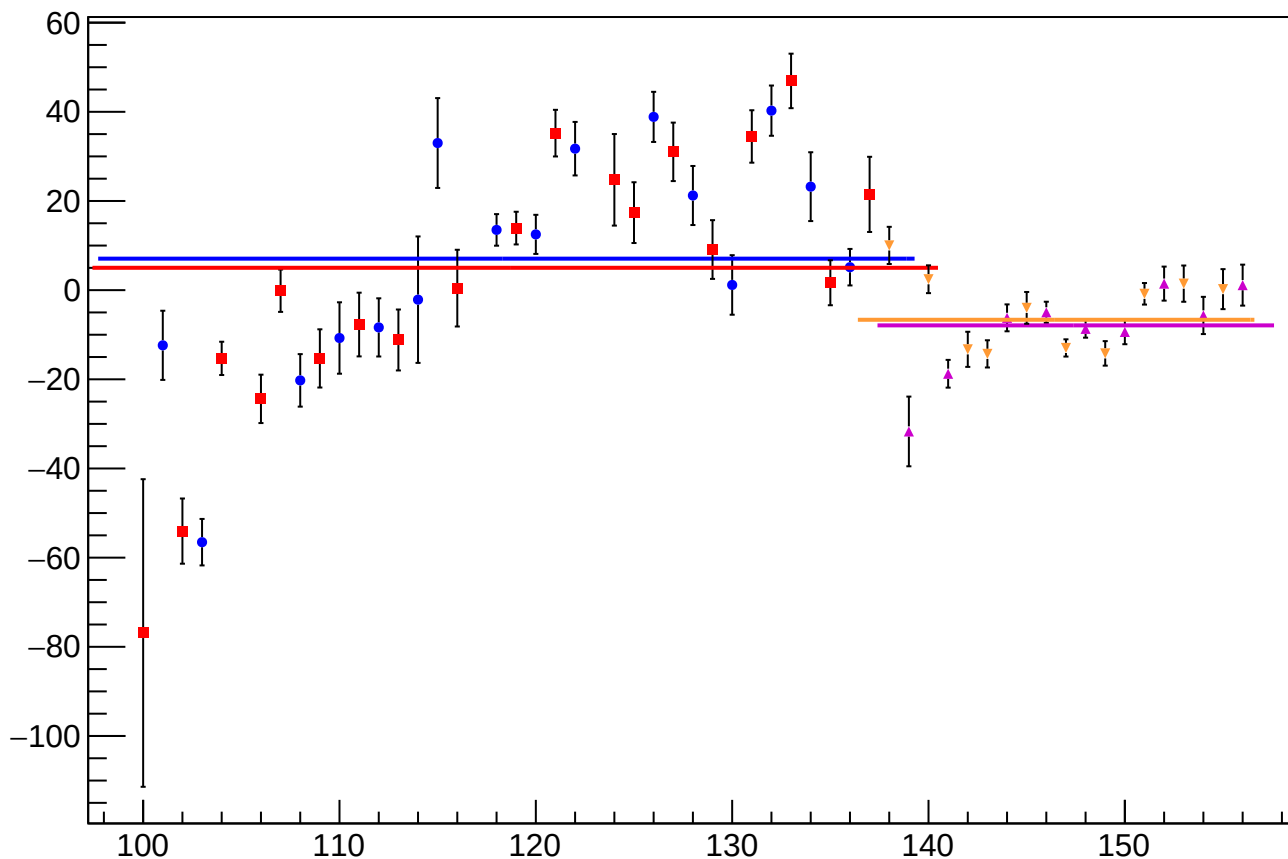
Right: 187.666 $\pm$ 0.963 χ^2 /NDF: 2280.2/34

In: 201.648 $\pm$ 1.041 χ^2 /NDF: 1225.2/24

Out: 189.302 $\pm$ 0.978 χ^2 /NDF: 1763.2/28

All: 195.093 $\pm$ 0.713 χ^2 /NDF: 3063.1/53

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: -6.645 ± 0.957 χ^2/NDF : 64.5/9

Right Out: 5.015 ± 1.355 χ^2/NDF : 288.5/18

Left In: -7.903 ± 1.018 χ^2/NDF : 33.9/8

Left: -7.236 ± 0.697 χ^2/NDF : 99.2/18

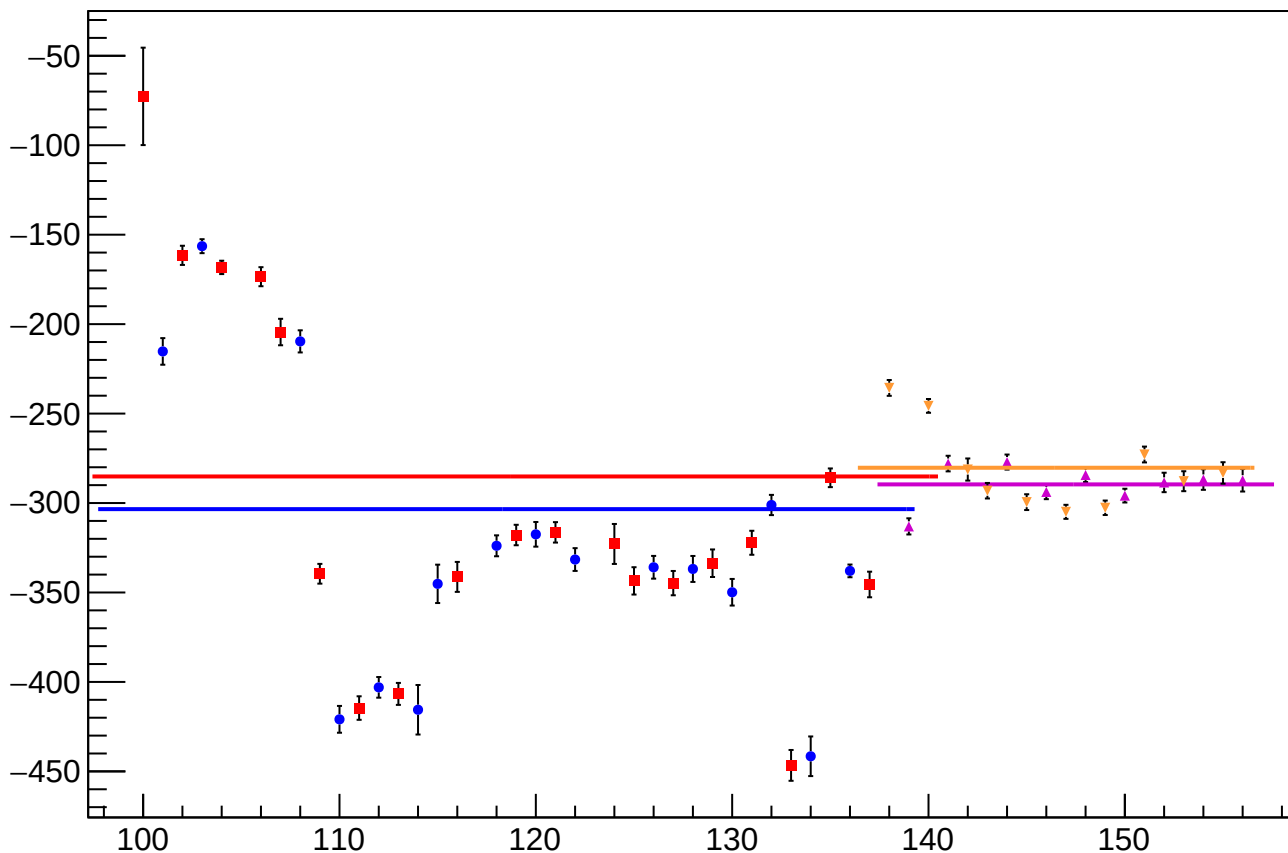
Right: 5.976 ± 0.988 χ^2/NDF : 582.2/34

In: -2.930 ± 0.832 χ^2/NDF : 398.3/24

Out: -2.764 ± 0.782 χ^2/NDF : 402.5/28

All: -2.842 ± 0.570 χ^2/NDF : 800.8/53

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: -280.278 ± 1.434 χ^2/NDF : 284.9/9

Right Out: -285.148 ± 1.451 χ^2/NDF : 3754.8/18

Left In: -289.580 ± 1.507 χ^2/NDF : 48.8/8

Left: -284.698 ± 1.039 χ^2/NDF : 353.7/18

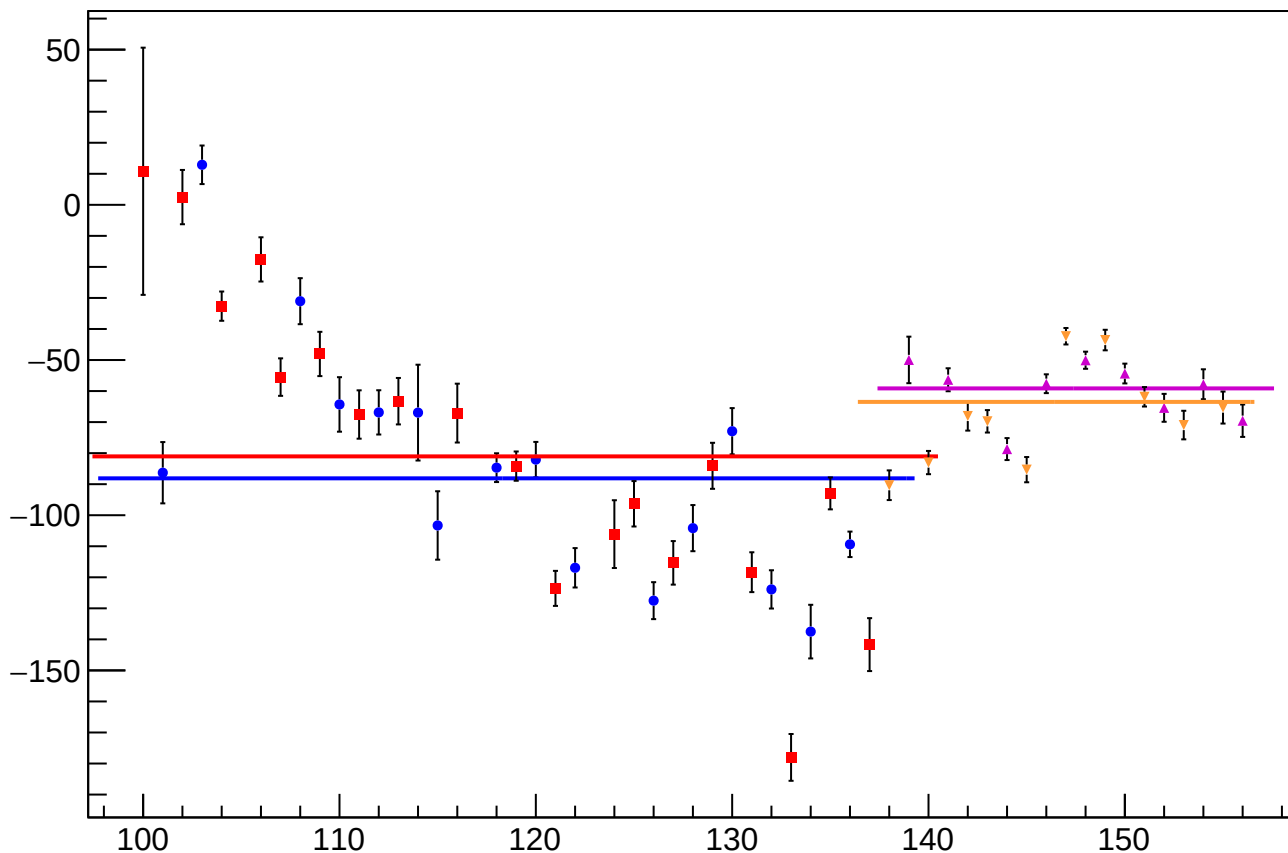
Right: -293.794 ± 1.053 χ^2/NDF : 6615.3/34

In: -296.391 ± 1.074 χ^2/NDF : 2875.7/24

Out: -282.685 ± 1.020 χ^2/NDF : 4045.4/28

All: -289.186 ± 0.740 χ^2/NDF : 7006.8/53

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.119 ± 1.655 χ^2/NDF : 511.9/15

Left Out: -63.490 ± 1.181 χ^2/NDF : 194.4/9

Right Out: -81.046 ± 1.569 χ^2/NDF : 677.5/18

Left In: -59.144 ± 1.251 χ^2/NDF : 51.9/8

Left: -61.443 ± 0.859 χ^2/NDF : 252.6/18

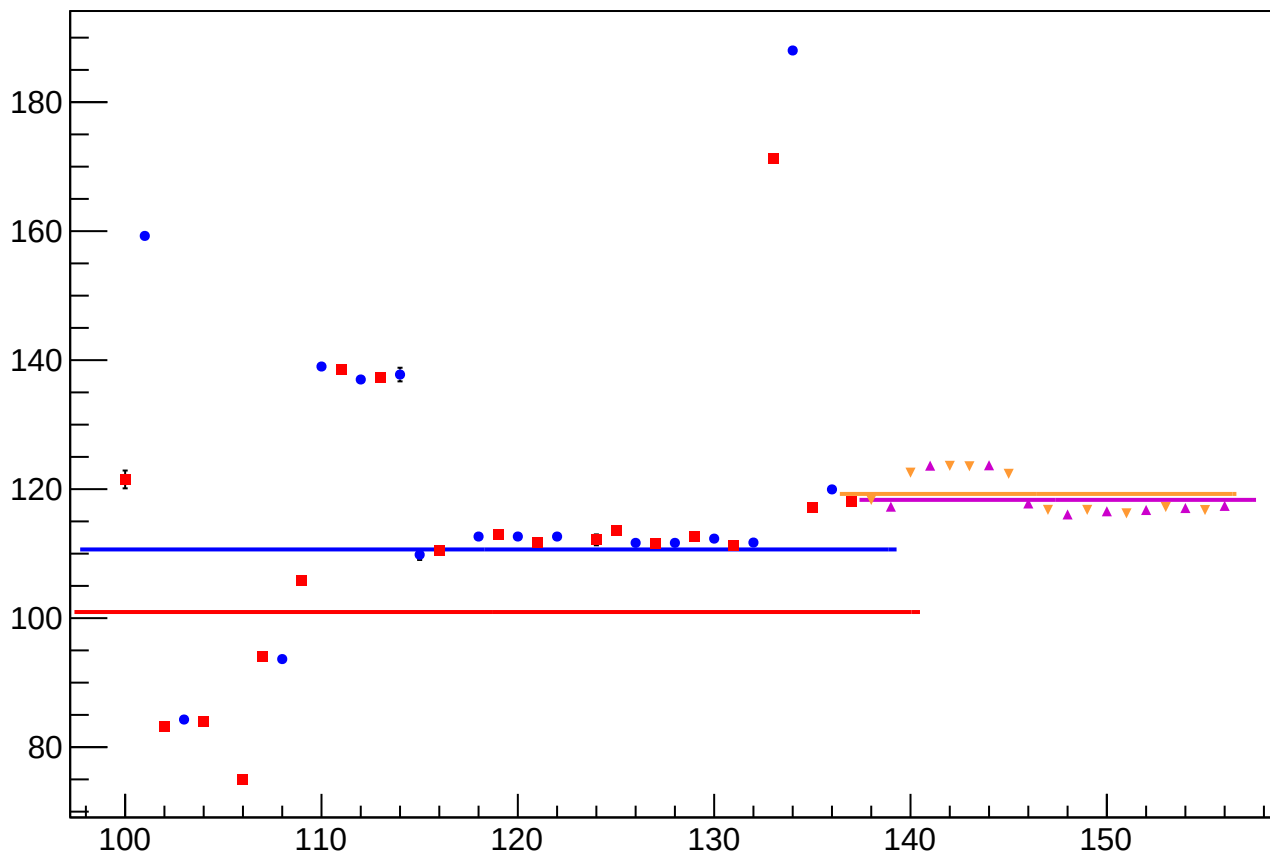
Right: -84.394 ± 1.139 χ^2/NDF : 1199.1/34

In: -69.684 ± 0.998 χ^2/NDF : 758.8/24

Out: -69.839 ± 0.943 χ^2/NDF : 951.8/28

All: -69.766 ± 0.686 χ^2/NDF : 1710.7/53

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.651 $\pm$ 0.086 χ^2 /NDF: 83521.8/15

Left Out: 119.260 $\pm$ 0.058 χ^2 /NDF: 2545.1/9

Right Out: 100.949 $\pm$ 0.081 χ^2 /NDF: 62002.4/18

Left In: 118.337 $\pm$ 0.059 χ^2 /NDF: 2202.6/8

Left: 118.805 $\pm$ 0.041 χ^2 /NDF: 4872.0/18

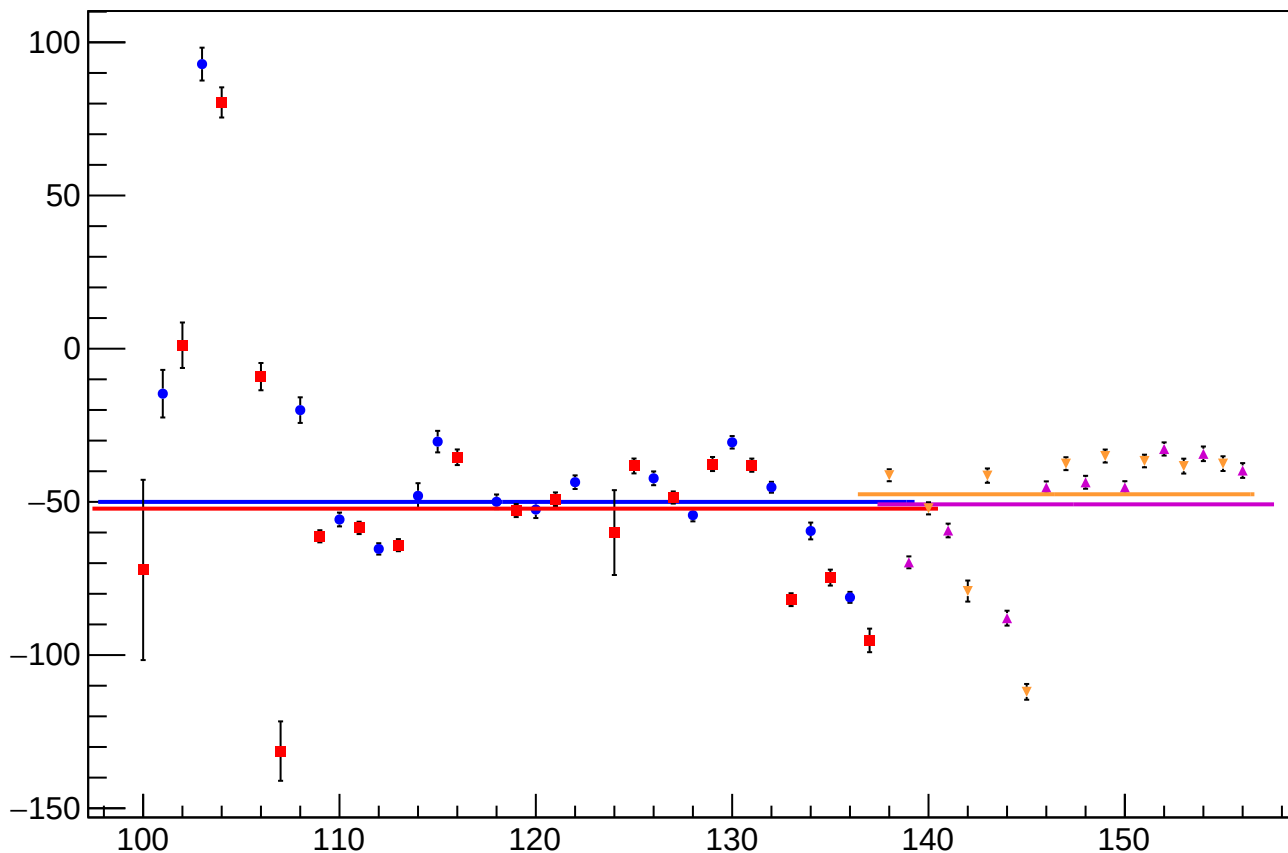
Right: 105.518 $\pm$ 0.059 χ^2 /NDF: 152285.6/34

In: 115.878 $\pm$ 0.049 χ^2 /NDF: 91179.3/24

Out: 113.036 $\pm$ 0.047 χ^2 /NDF: 98303.1/28

All: 114.417 $\pm$ 0.034 χ^2 /NDF: 191244.0/53

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -50.008+/-0.610 χ^2/NDF : 1327.4/15

Left Out: -47.516+/-0.715 χ^2/NDF : 851.2/9

Right Out: -52.207+/-0.605 χ^2/NDF : 1570.3/18

Left In: -50.805+/-0.723 χ^2/NDF : 508.5/8

Left: -49.141+/-0.509 χ^2/NDF : 1370.2/18

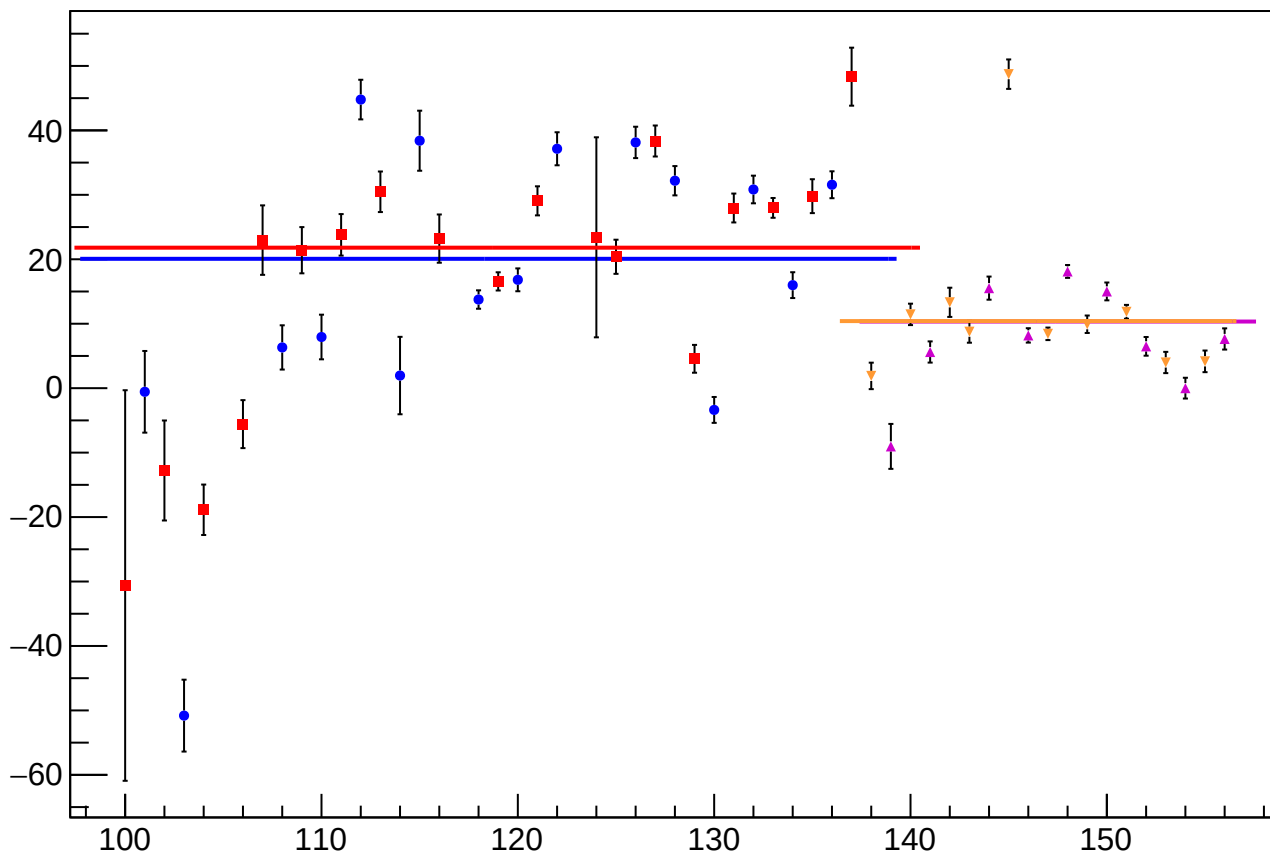
Right: -51.116+/-0.430 χ^2/NDF : 2904.2/34

In: -50.339+/-0.466 χ^2/NDF : 1836.6/24

Out: -50.250+/-0.462 χ^2/NDF : 2446.6/28

All: -50.294+/-0.328 χ^2/NDF : 4283.2/53

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: 10.408 $\pm$ 0.470 χ^2 /NDF:336.2/9

Right Out: 21.800 $\pm$ 0.622 χ^2 /NDF: 396.3/18

Left In: 10.338 $\pm$ 0.481 χ^2 /NDF:174.2/8

Left: 10.374 $\pm$ 0.336 χ^2 /NDF: 510.4/18

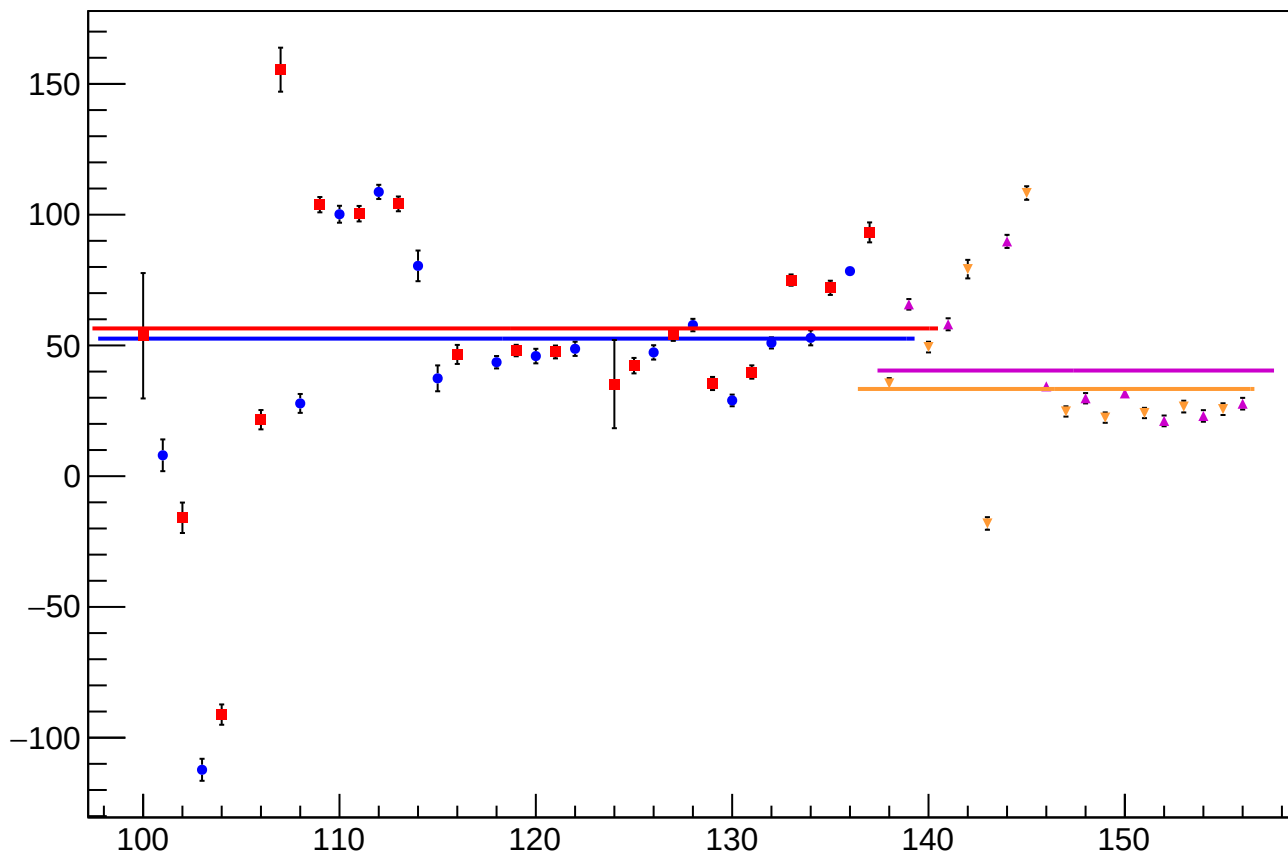
Right: 20.922 $\pm$ 0.436 χ^2 /NDF: 1036.5/34

In: 14.055 $\pm$ 0.378 χ^2 /NDF:966.8/24

Out: 14.552 $\pm$ 0.375 χ^2 /NDF:946.0/28

All: 14.306 $\pm$ 0.266 χ^2 /NDF: 1913.6/53

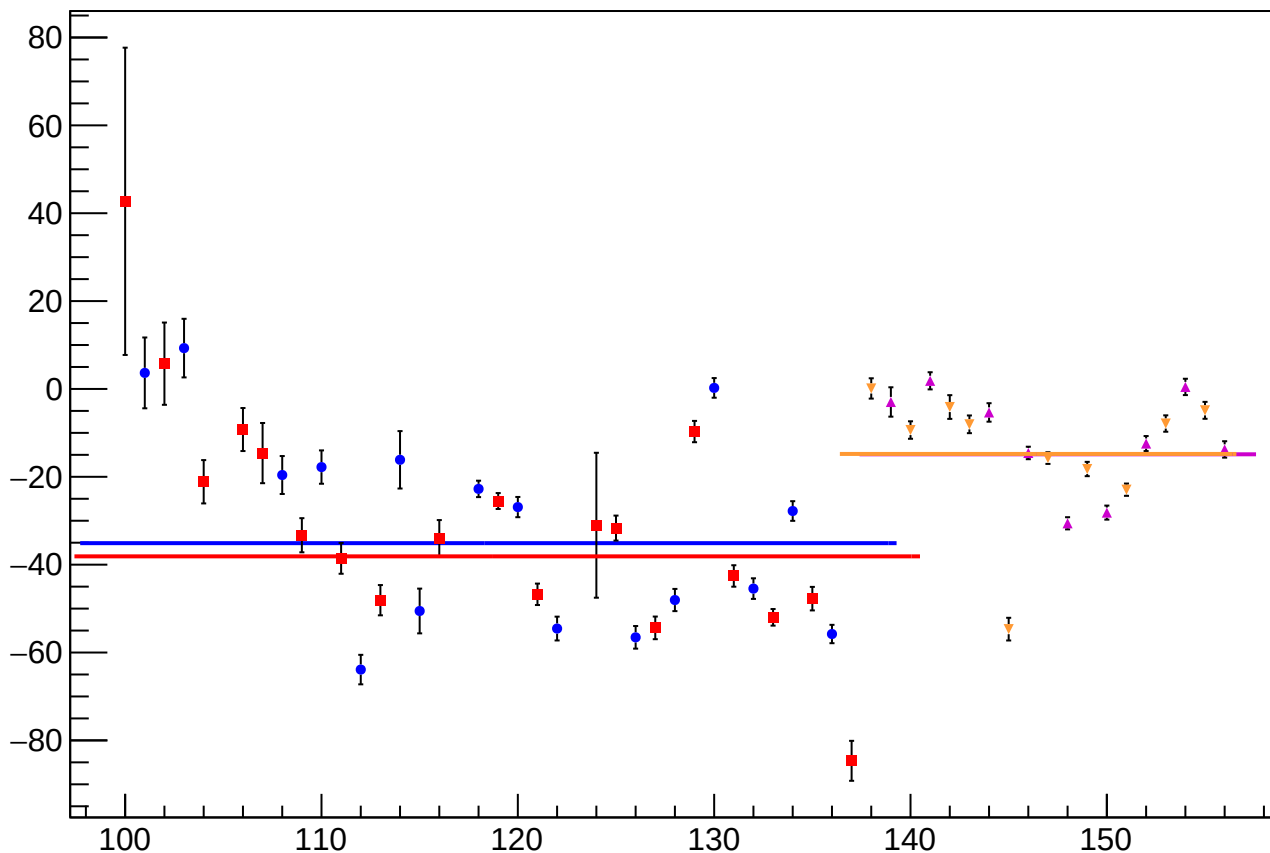
reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: 36.871 ± 0.495 $\chi^2/\text{NDF}: 2506.9/18$
 Right: 54.527 ± 0.496 $\chi^2/\text{NDF}: 5640.4/34$
 In: 46.539 ± 0.494 $\chi^2/\text{NDF}: 3658.1/24$
 Out: 44.821 ± 0.497 $\chi^2/\text{NDF}: 5118.8/28$
 All: 45.685 ± 0.350 $\chi^2/\text{NDF}: 8782.9/53$

Right In: 52.605 ± 0.696 $\chi^2/\text{NDF}: 2659.4/15$
 Left Out: 33.355 ± 0.699 $\chi^2/\text{NDF}: 1610.2/9$
 Right Out: 56.499 ± 0.705 $\chi^2/\text{NDF}: 2965.5/18$
 Left In: 40.401 ± 0.700 $\chi^2/\text{NDF}: 846.0/8$

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -35.104 ± 0.700 $\chi^2/\text{NDF}: 773.2/15$

Left Out: -14.795 ± 0.579 $\chi^2/\text{NDF}: 393.3/9$

Right Out: -38.109 ± 0.714 $\chi^2/\text{NDF}: 514.6/18$

Left In: -14.877 ± 0.587 $\chi^2/\text{NDF}: 374.4/8$

Left: -14.836 ± 0.412 $\chi^2/\text{NDF}: 767.7/18$

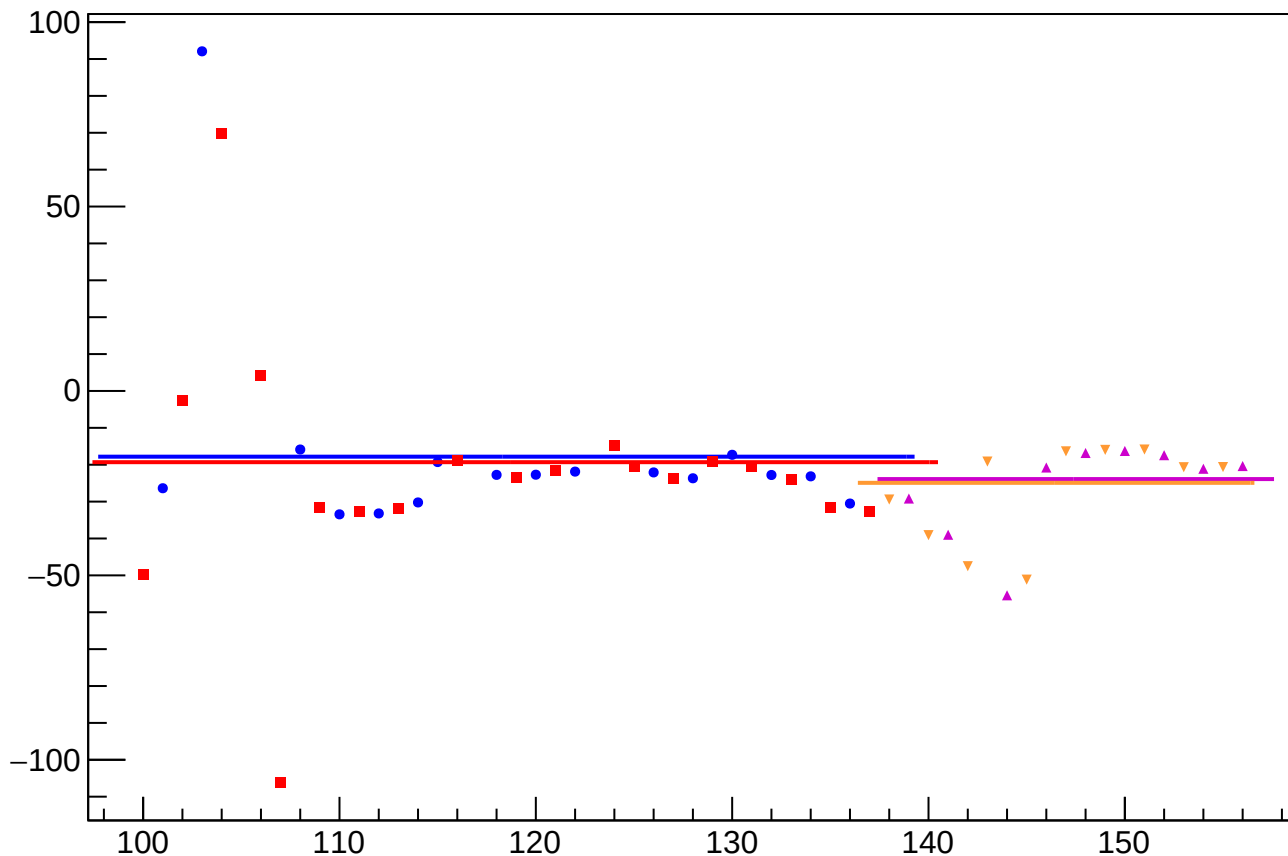
Right: -36.577 ± 0.500 $\chi^2/\text{NDF}: 1296.8/34$

In: -23.226 ± 0.450 $\chi^2/\text{NDF}: 1637.8/24$

Out: -24.046 ± 0.450 $\chi^2/\text{NDF}: 1551.3/28$

All: -23.636 ± 0.318 $\chi^2/\text{NDF}: 3190.7/53$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -17.817 ± 0.043 $\chi^2/\text{NDF}: 426105.1/15$

Left Out: -24.910 ± 0.028 $\chi^2/\text{NDF}: 162241.1/9$

Right Out: -19.311 ± 0.046 $\chi^2/\text{NDF}: 344626.7/18$

Left In: -23.892 ± 0.027 $\chi^2/\text{NDF}: 140445.2/8$

Left: -24.381 ± 0.019 $\chi^2/\text{NDF}: 303391.9/18$

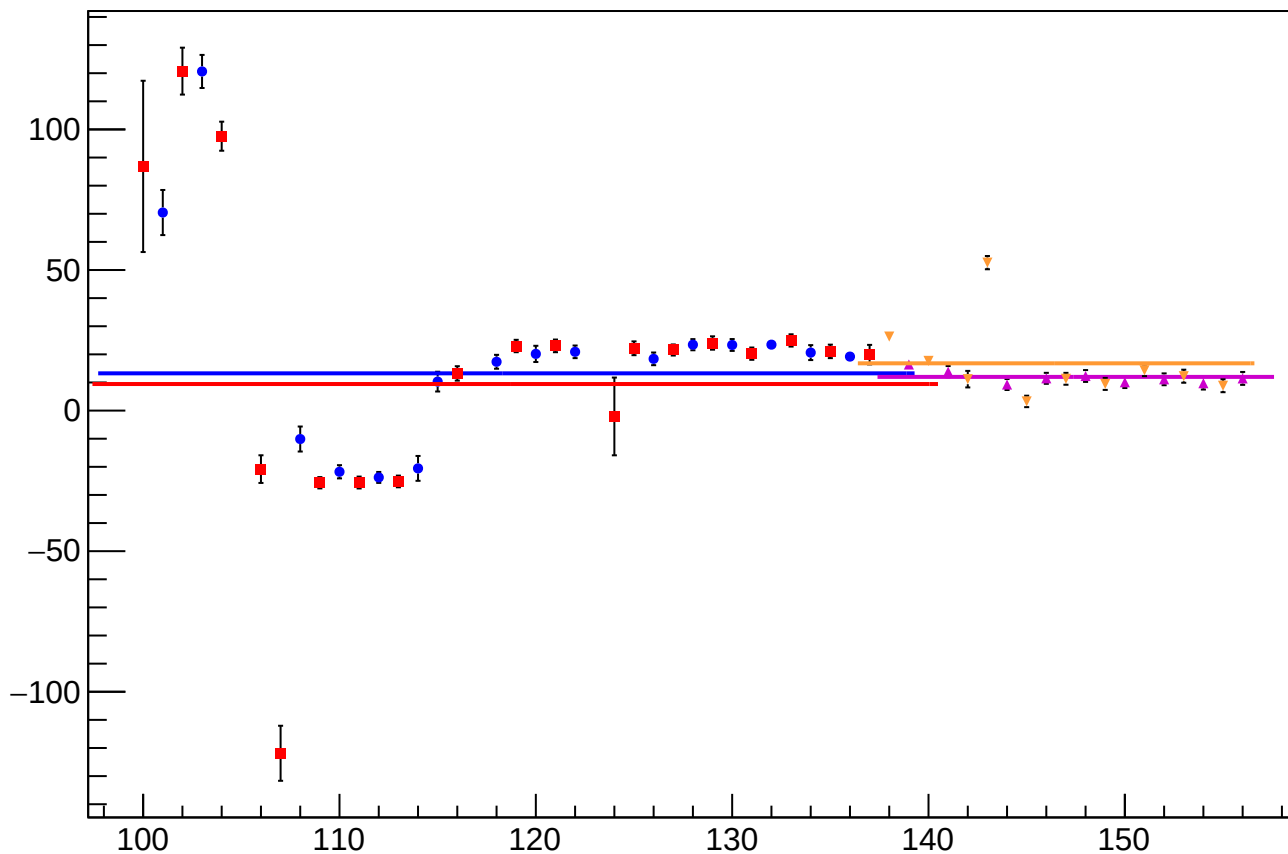
Right: -18.516 ± 0.032 $\chi^2/\text{NDF}: 771290.6/34$

In: -22.227 ± 0.023 $\chi^2/\text{NDF}: 580884.1/24$

Out: -23.430 ± 0.024 $\chi^2/\text{NDF}: 517727.0/28$

All: -22.801 ± 0.016 $\chi^2/\text{NDF}: 1099960.3/53$

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: 16.813+/-0.670 χ^2/NDF : 342.8/9

Right Out: 9.450+/-0.615 χ^2/NDF : 1836.6/18

Left In: 11.984+/-0.676 χ^2/NDF : 11.5/8

Left: 14.421+/-0.476 χ^2/NDF : 380.1/18

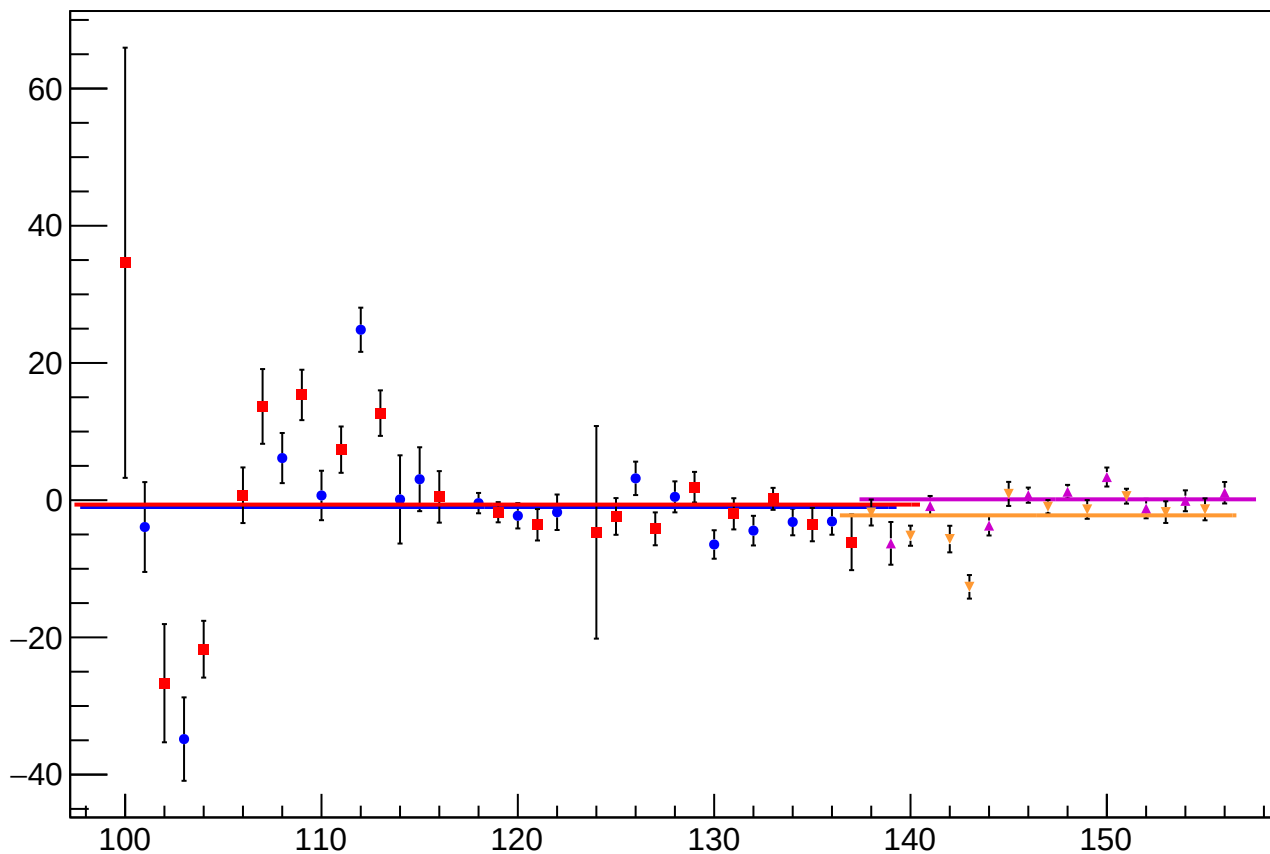
Right: 11.351+/-0.435 χ^2/NDF : 3038.2/34

In: 12.677+/-0.455 χ^2/NDF : 1195.9/24

Out: 12.817+/-0.453 χ^2/NDF : 2245.0/28

All: 12.748+/-0.321 χ^2/NDF : 3441.0/53

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: -2.213 ± 0.451 χ^2/NDF : 56.3/9

Right Out: -0.644 ± 0.636 χ^2/NDF : 94.2/18

Left In: 0.123 ± 0.460 χ^2/NDF : 20.0/8

Left: -1.066 ± 0.322 χ^2/NDF : 89.5/18

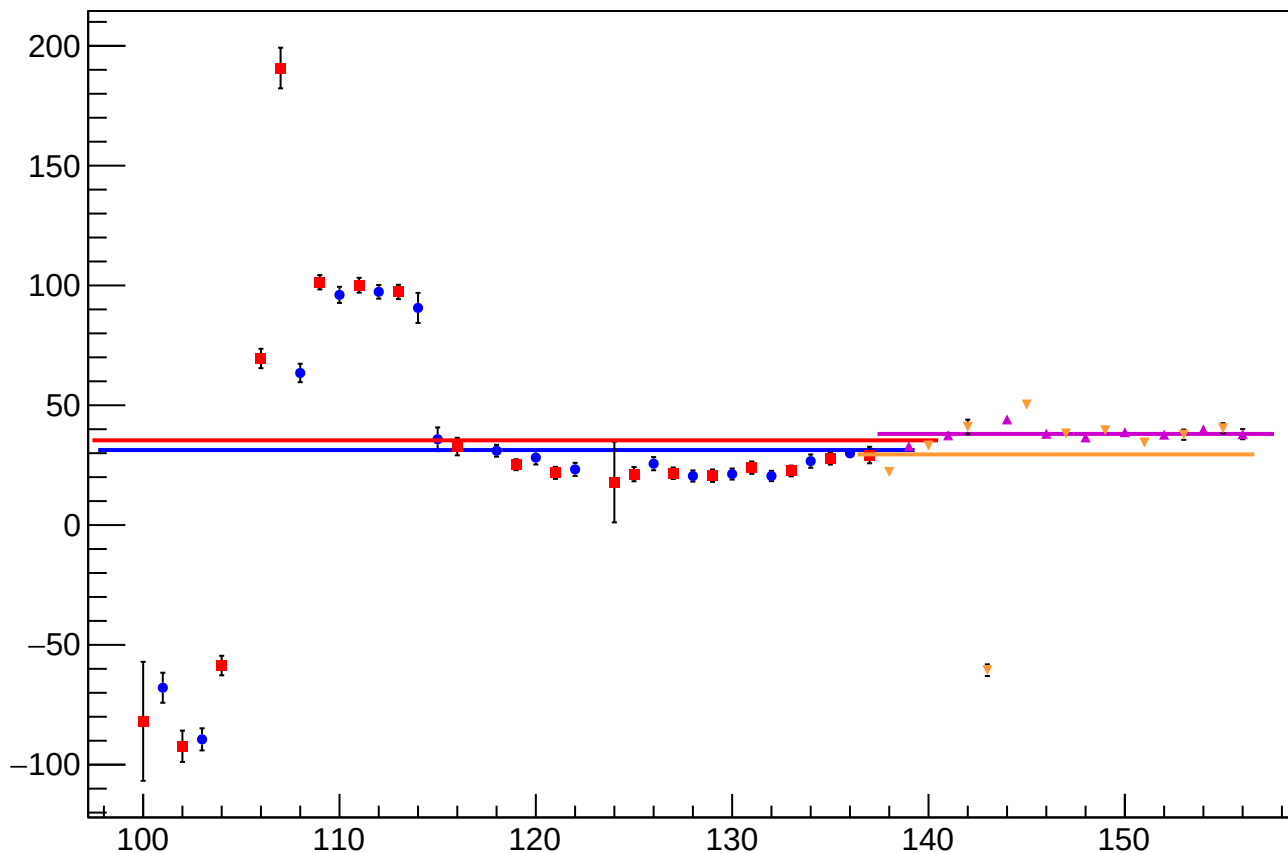
Right: -0.823 ± 0.443 χ^2/NDF : 210.7/34

In: -0.274 ± 0.369 χ^2/NDF : 138.5/24

Out: -1.687 ± 0.368 χ^2/NDF : 154.6/28

All: -0.982 ± 0.261 χ^2/NDF : 300.4/53

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: 29.491 $\pm$ 0.658 χ^2 /NDF:1602.9/9

Right Out: 35.366 $\pm$ 0.717 χ^2 /NDF: 2897.7/18

Left In: 38.034 $\pm$ 0.658 χ^2 /NDF:18.8/8

Left: 33.766 $\pm$ 0.465 χ^2 /NDF: 1705.9/18

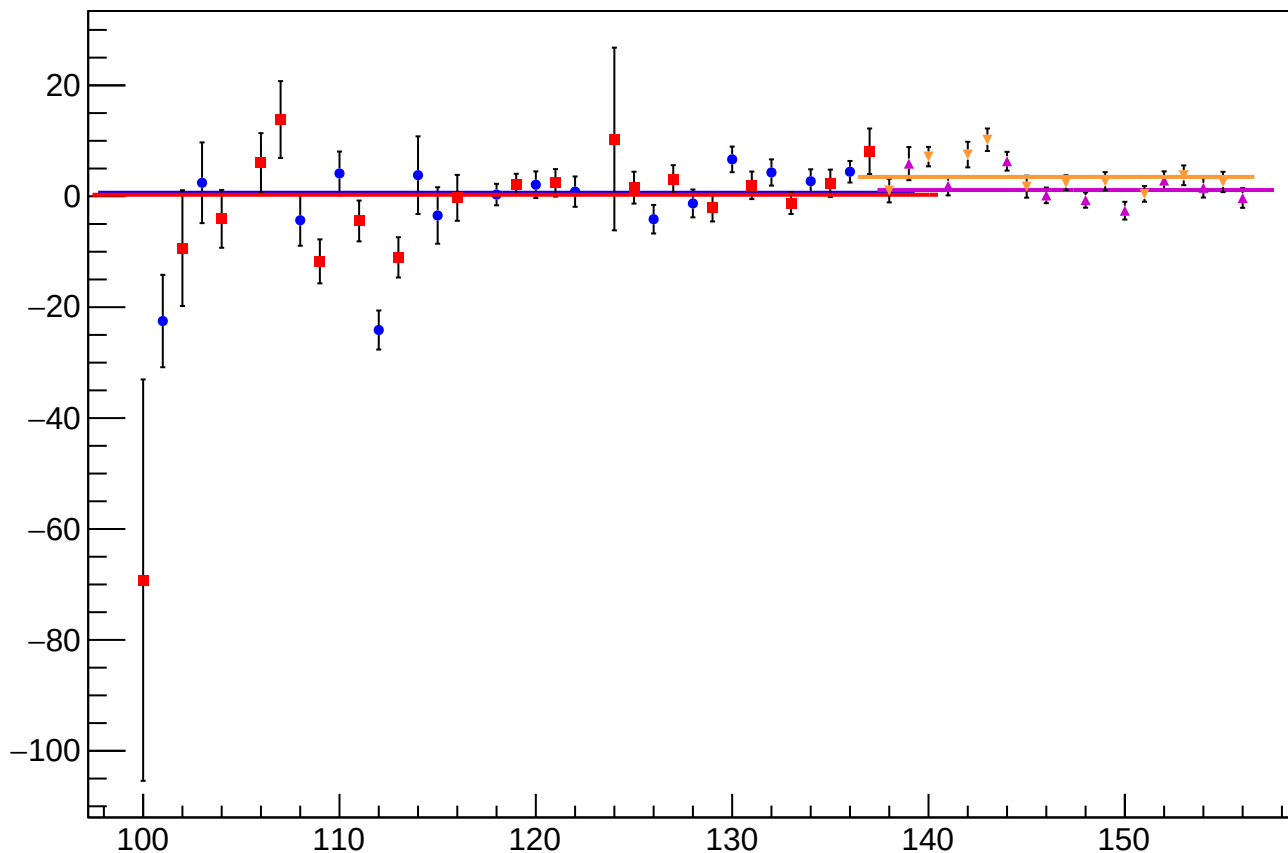
Right: 33.289 $\pm$ 0.501 χ^2 /NDF: 4999.9/34

In: 34.881 $\pm$ 0.479 χ^2 /NDF:2153.7/24

Out: 32.178 $\pm$ 0.485 χ^2 /NDF:4536.9/28

All: 33.545 $\pm$ 0.341 χ^2 /NDF: 6706.3/53

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: 3.491 ± 0.552 χ^2/NDF : 26.3/9

Right Out: 0.274 ± 0.726 χ^2/NDF : 40.5/18

Left In: 1.124 ± 0.558 χ^2/NDF : 21.5/8

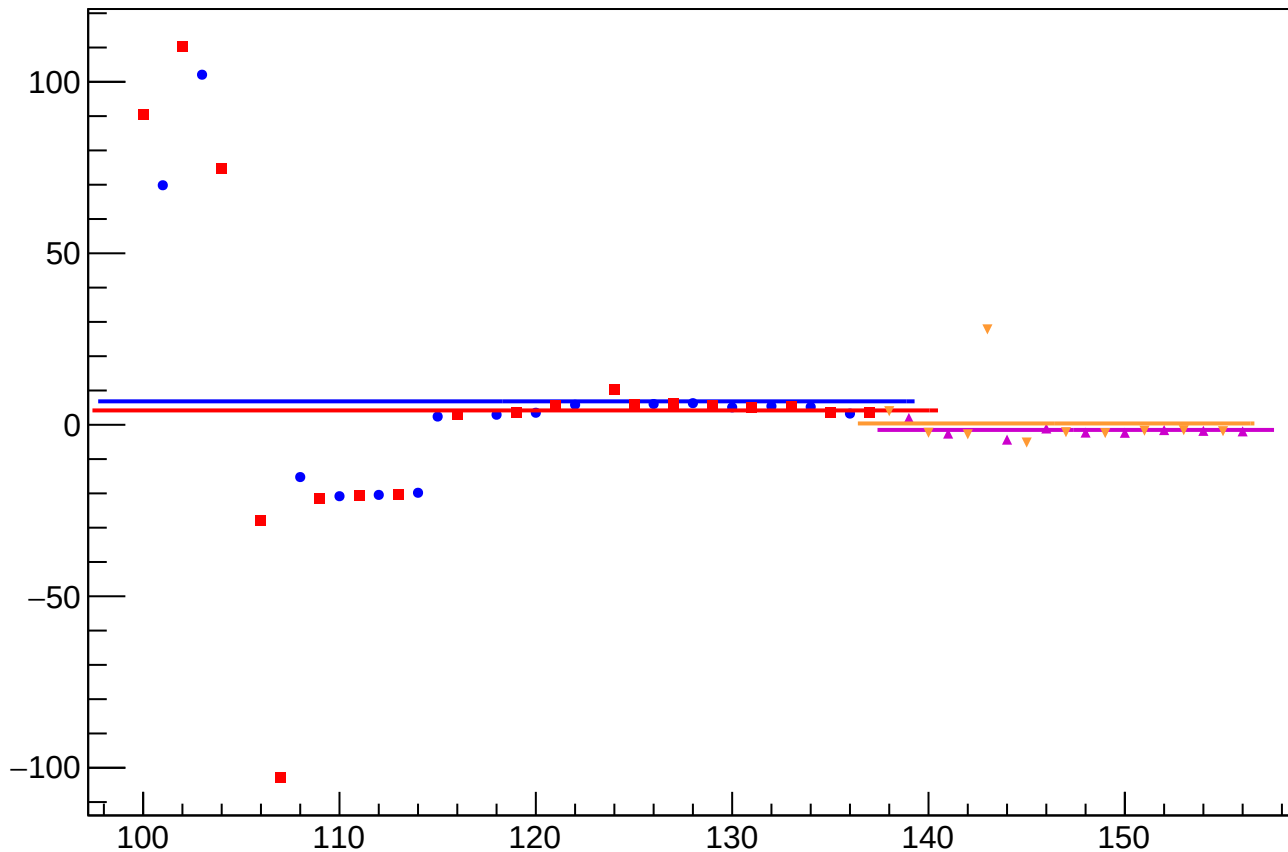
Left: 2.320 ± 0.392 χ^2/NDF : 56.9/18

Right: 0.459 ± 0.506 χ^2/NDF : 119.0/34

In: 0.935 ± 0.437 χ^2/NDF : 100.2/24

Out: 2.312 ± 0.439 χ^2/NDF : 79.2/28

All: 1.620 ± 0.310 χ^2/NDF : 184.3/53



Right In: 6.838+/-0.043 χ^2/NDF : 320954.7/15

Left Out: 0.389+/-0.026 χ^2/NDF :87346.5/9

Right Out: 4.190+/-0.046 χ^2/NDF : 434546.8/18

Left In: -1.495+/-0.025 χ^2/NDF :4399.7/8

Left: -0.589 ± 0.018 χ^2/NDF : 94475.1/18

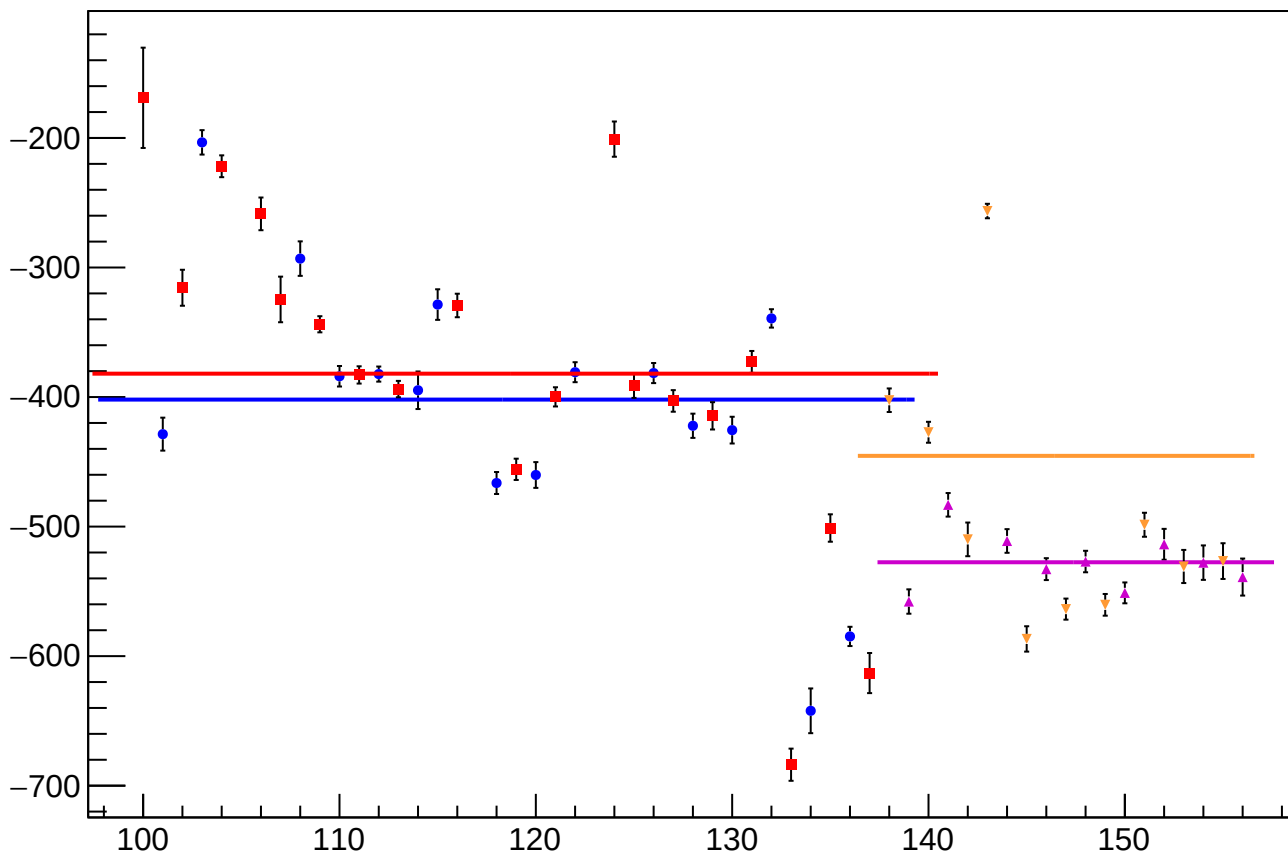
Right: 5.616+/-0.031 χ^2/NDF : 757263.1/34

ln: 0.622+/-0.022 χ^2/NDF :353570.2/24

Out: 1.300+/-0.023 χ^2/NDF :527018.6/28

All: 0.945 ± 0.016 χ^2/NDF : 881058.2/53

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -401.961 ± 2.236 $\chi^2/\text{NDF}: 1563.3/15$

Left Out: -445.393 ± 2.793 $\chi^2/\text{NDF}: 1917.3/9$

Right Out: -381.949 ± 2.124 $\chi^2/\text{NDF}: 1817.4/18$

Left In: -527.532 ± 3.212 $\chi^2/\text{NDF}: 48.4/8$

Left: -480.757 ± 2.107 $\chi^2/\text{NDF}: 2338.1/18$

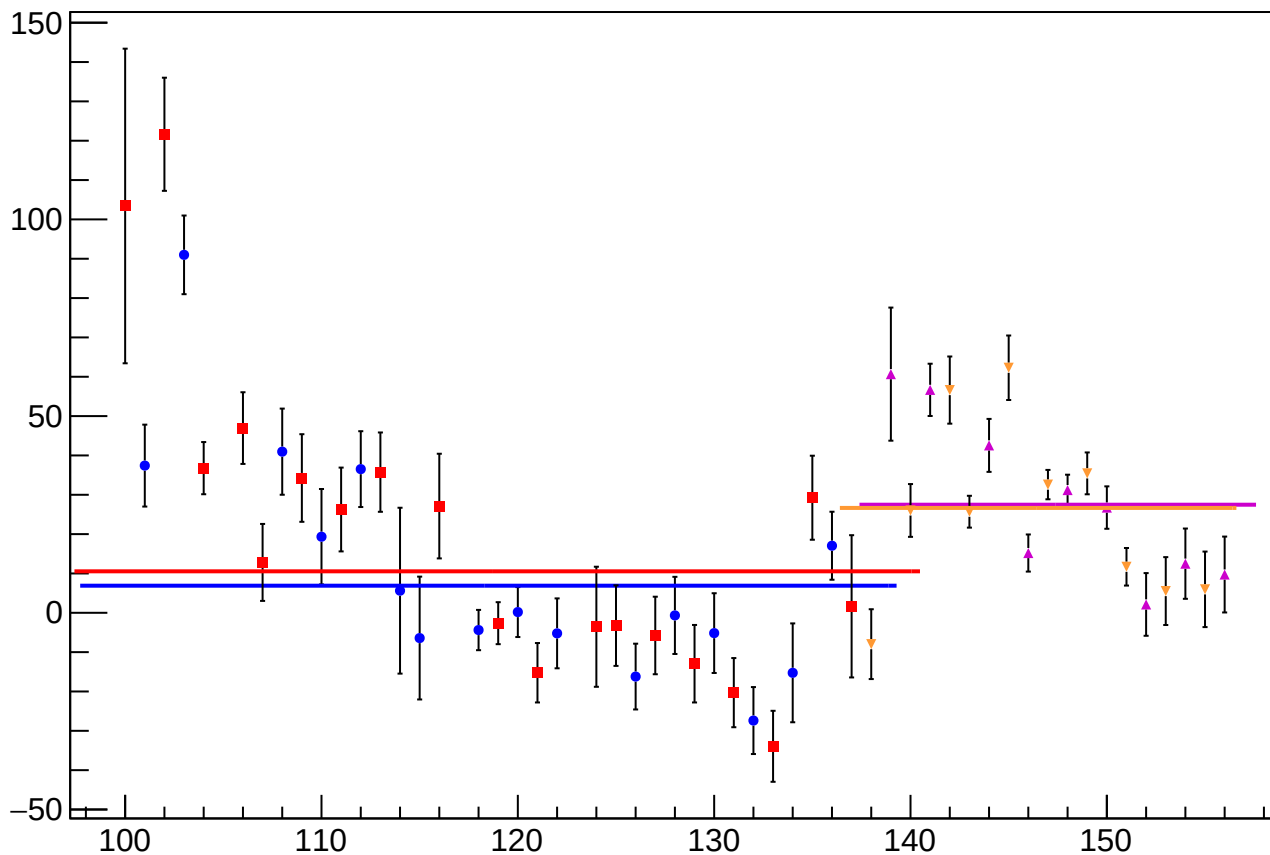
Right: -391.443 ± 1.540 $\chi^2/\text{NDF}: 3422.8/34$

In: -442.953 ± 1.835 $\chi^2/\text{NDF}: 2641.2/24$

Out: -405.203 ± 1.691 $\chi^2/\text{NDF}: 4061.6/28$

All: -422.536 ± 1.243 $\chi^2/\text{NDF}: 6931.7/53$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.889 ± 2.264 $\chi^2/\text{NDF}: 138.4/15$

Left Out: 26.658 ± 1.826 $\chi^2/\text{NDF}: 72.2/9$

Right Out: 10.544 ± 2.197 $\chi^2/\text{NDF}: 180.0/18$

Left In: 27.475 ± 2.075 $\chi^2/\text{NDF}: 52.2/8$

Left: 27.014 ± 1.371 $\chi^2/\text{NDF}: 124.5/18$

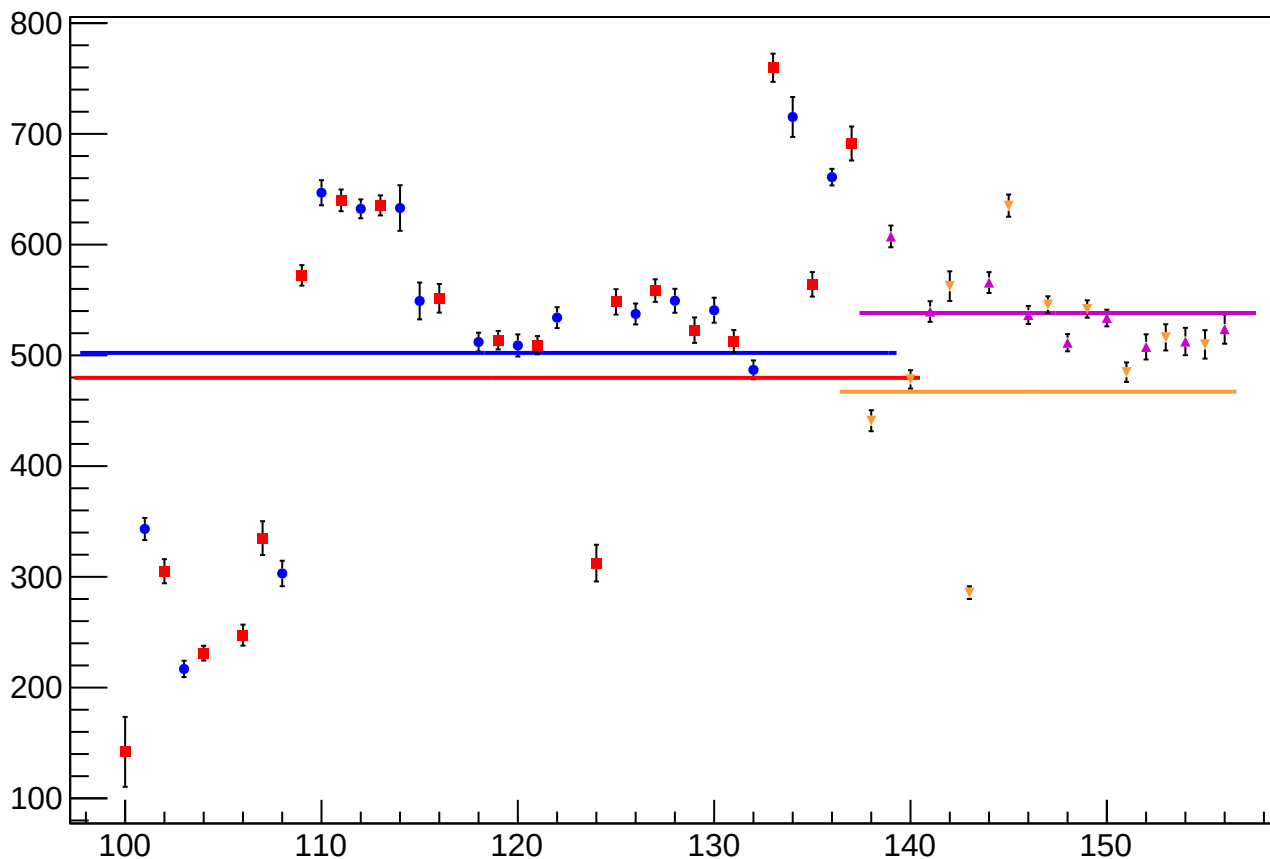
Right: 8.772 ± 1.577 $\chi^2/\text{NDF}: 319.8/34$

In: 18.076 ± 1.530 $\chi^2/\text{NDF}: 235.6/24$

Out: 20.072 ± 1.404 $\chi^2/\text{NDF}: 284.1/28$

All: 19.159 ± 1.035 $\chi^2/\text{NDF}: 520.6/53$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 502.213 $\pm$ 2.493 χ^2/NDF : 3135.2/15

Left Out: 467.172 $\pm$ 2.760 χ^2/NDF :1569.9/9

Right Out: 479.679 $\pm$ 2.399 χ^2/NDF : 4138.5/18

Left In: 538.269 $\pm$ 3.118 χ^2/NDF :83.5/8

Left: 498.399 $\pm$ 2.067 χ^2/NDF : 1944.9/18

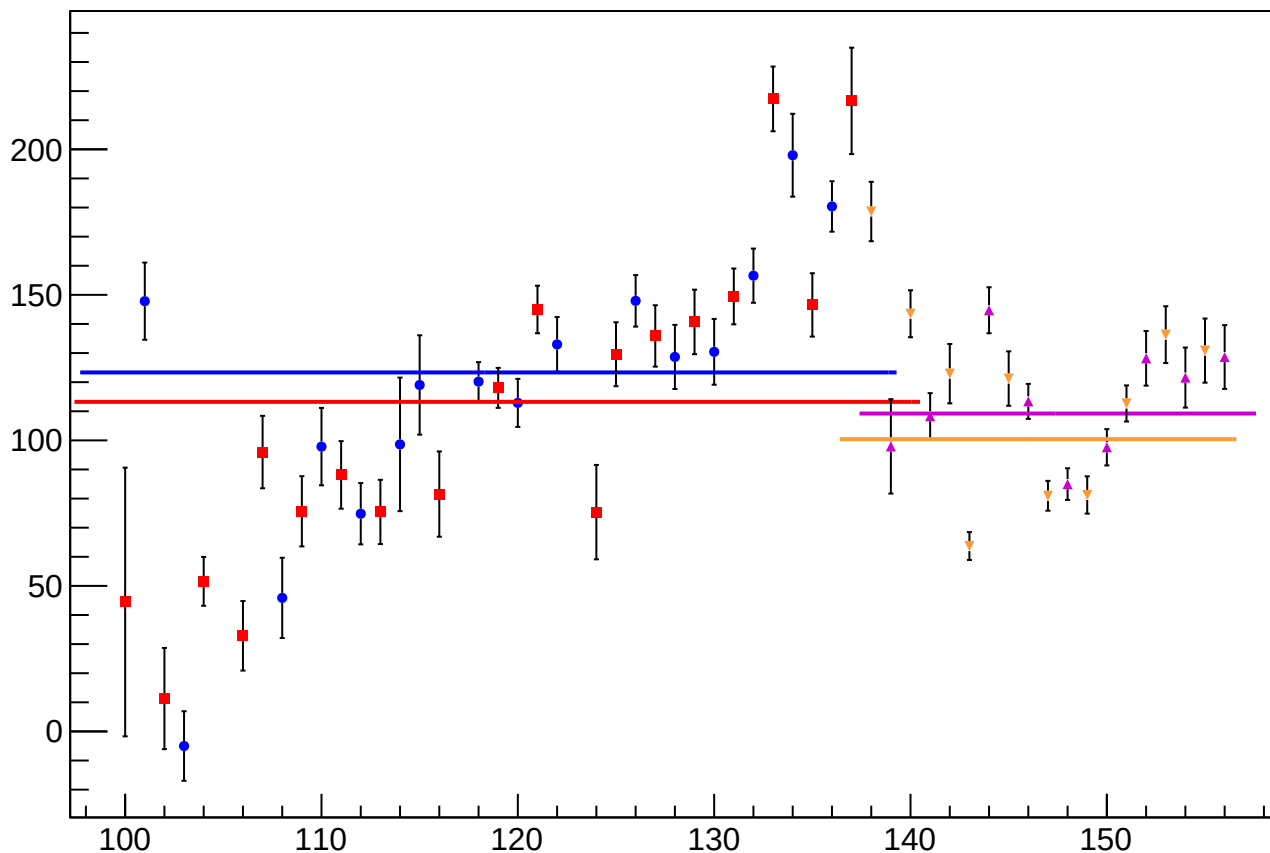
Right: 490.515 $\pm$ 1.729 χ^2/NDF : 7316.1/34

In: 516.271 $\pm$ 1.947 χ^2/NDF :3300.2/24

Out: 474.295 $\pm$ 1.811 χ^2/NDF :5720.1/28

All: 493.761 $\pm$ 1.326 χ^2/NDF : 9269.6/53

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: 100.431 $\pm$ 2.254 χ^2 /NDF:204.3/9

Right Out: 113.235 $\pm$ 2.545 χ^2 /NDF: 345.8/18

Left In: 109.226 $\pm$ 2.564 χ^2 /NDF:53.2/8

Left: 104.265 $\pm$ 1.693 χ^2 /NDF: 264.1/18

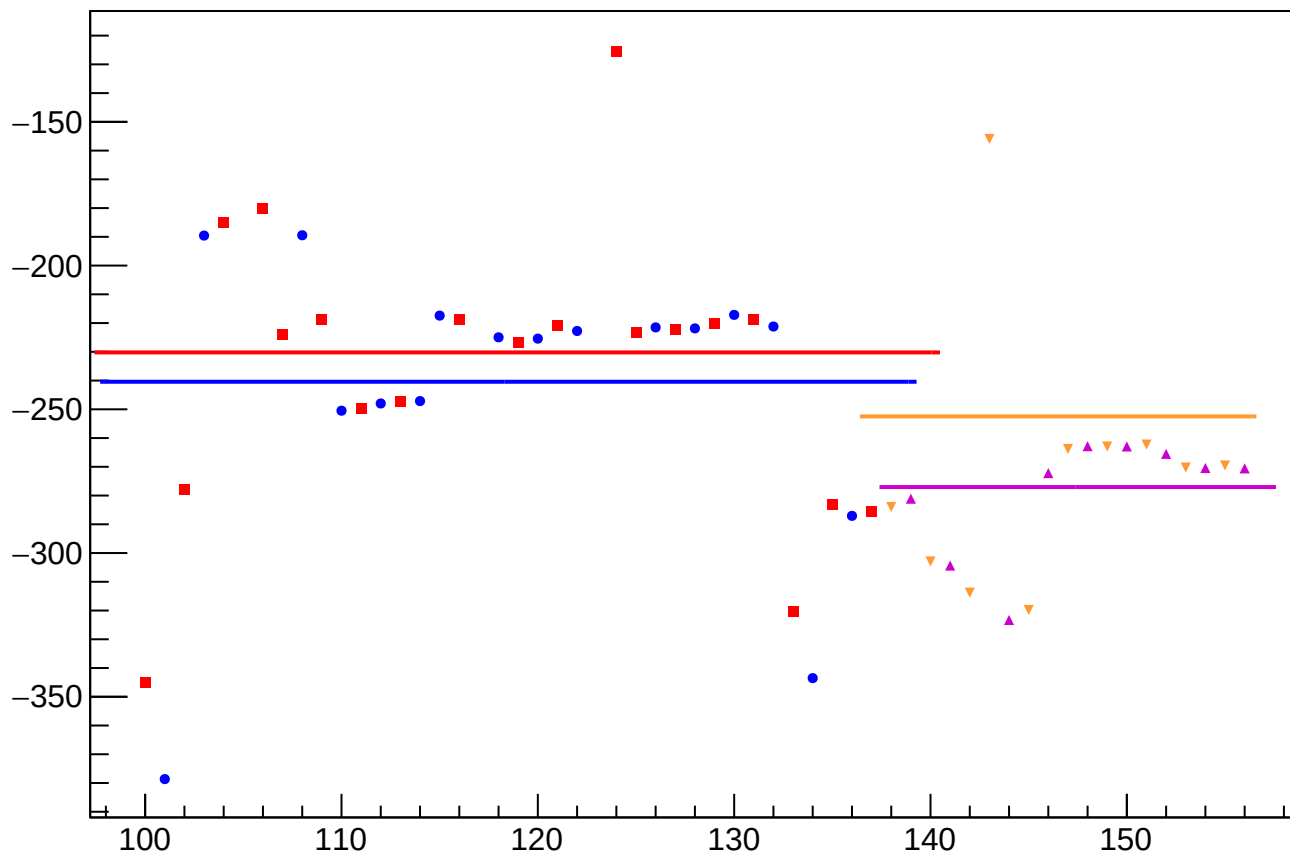
Right: 118.129 $\pm$ 1.828 χ^2 /NDF: 624.8/34

In: 116.114 $\pm$ 1.835 χ^2 /NDF:339.3/24

Out: 106.060 $\pm$ 1.687 χ^2 /NDF:564.3/28

All: 110.667 $\pm$ 1.242 χ^2 /NDF: 919.9/53

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: -252.474+/-0.113 χ^2/NDF : 235553.5/9

Right Out: -230.207+/-0.146 χ^2/NDF : 83431.4/18

Left In: -277.052+/-0.122 χ^2/NDF : 22948.7/8

Left: -263.775+/-0.083 χ^2/NDF : 280403.0/18

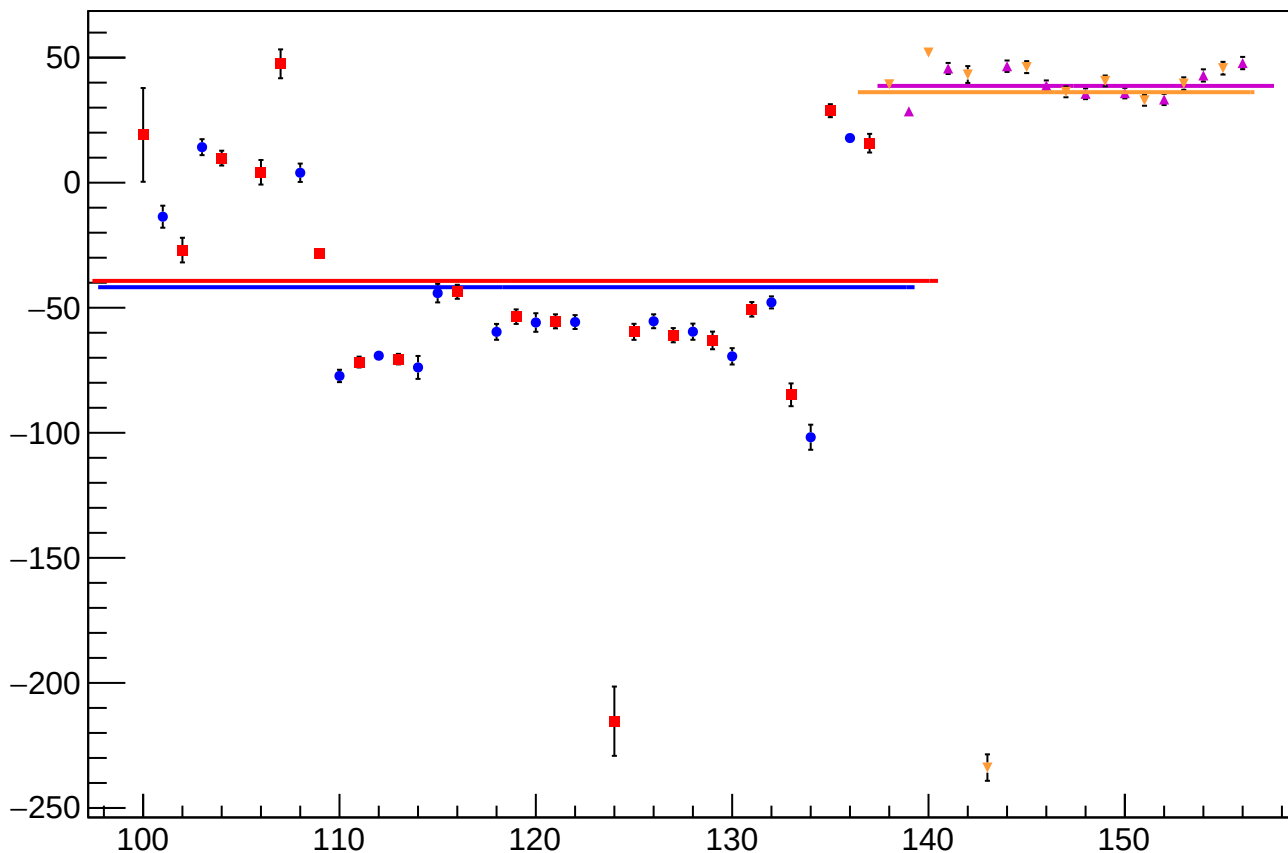
Right: -235.167+/-0.105 χ^2/NDF : 219942.1/34

In: -262.526+/-0.095 χ^2/NDF : 192821.1/24

Out: -244.202+/-0.089 χ^2/NDF : 333505.6/28

All: -252.813+/-0.065 χ^2/NDF : 546118.2/53

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: 36.180 ± 0.750 $\chi^2/\text{NDF}: 2718.3/9$

Right Out: -39.263 ± 0.680 $\chi^2/\text{NDF}: 2478.3/18$

Left In: 38.695 ± 0.729 $\chi^2/\text{NDF}: 76.4/8$

Left: 37.473 ± 0.523 $\chi^2/\text{NDF}: 2800.4/18$

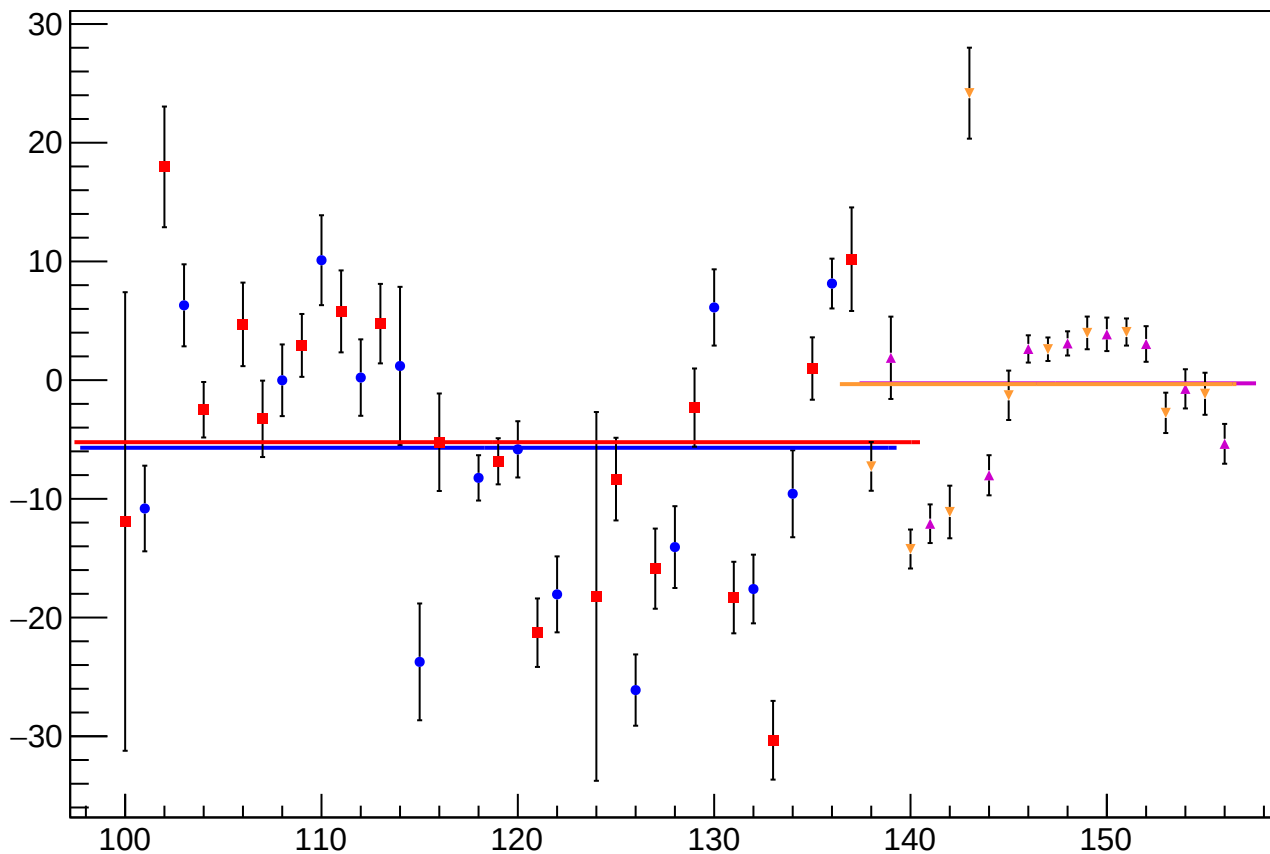
Right: -40.447 ± 0.495 $\chi^2/\text{NDF}: 4890.2/34$

In: -1.894 ± 0.514 $\chi^2/\text{NDF}: 8622.0/24$

Out: -5.241 ± 0.504 $\chi^2/\text{NDF}: 10753.3/28$

All: -3.600 ± 0.360 $\chi^2/\text{NDF}: 19397.0/53$

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: -0.336 ± 0.495 χ^2/NDF : 183.3/9

Right Out: -5.227 ± 0.740 χ^2/NDF : 197.3/18

Left In: -0.269 ± 0.488 χ^2/NDF : 114.2/8

Left: -0.302 ± 0.347 χ^2/NDF : 297.5/18

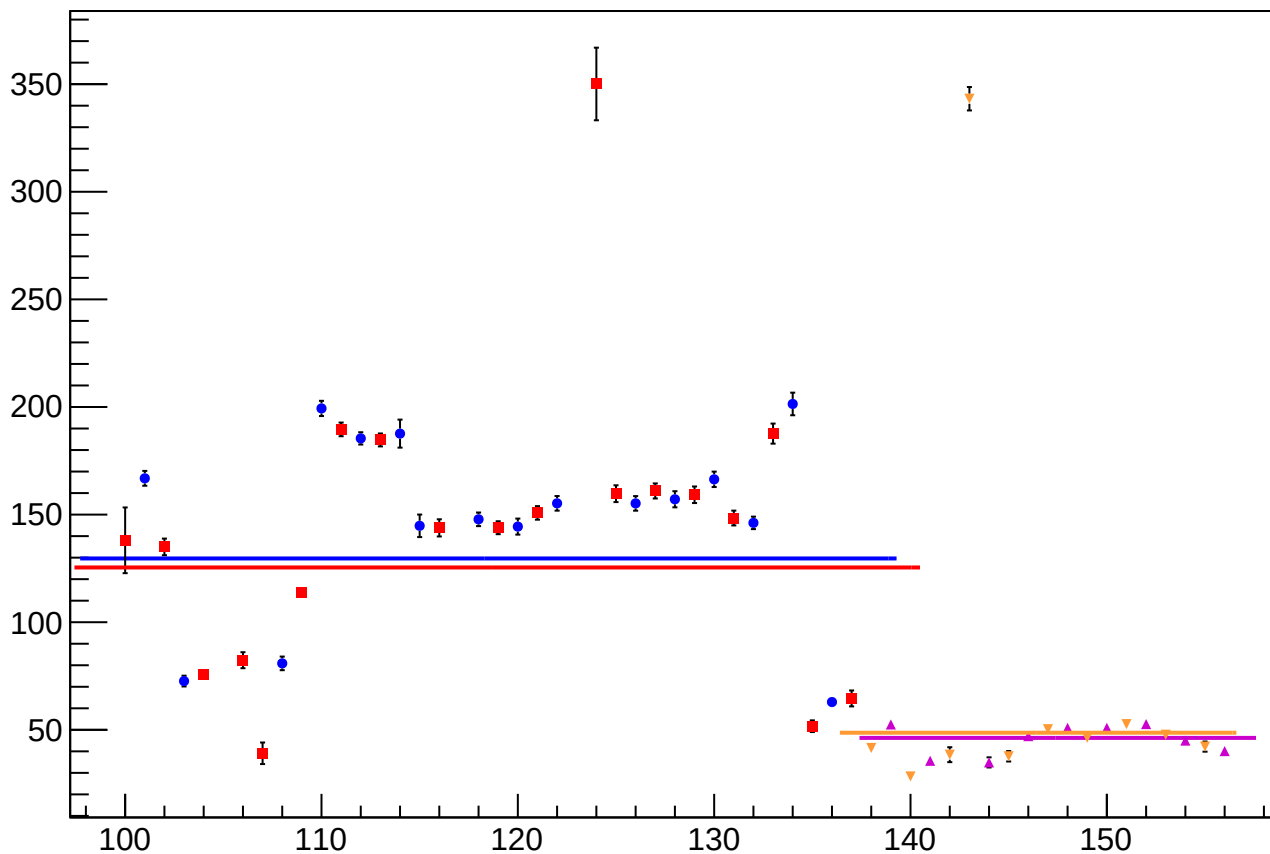
Right: -5.458 ± 0.528 χ^2/NDF : 394.3/34

In: -1.875 ± 0.410 χ^2/NDF : 347.5/24

Out: -1.846 ± 0.411 χ^2/NDF : 410.8/28

All: -1.860 ± 0.290 χ^2/NDF : 758.4/53

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 129.621 $\pm$ 0.801 χ^2 /NDF: 3624.4/15

Left Out: 48.658 $\pm$ 0.732 χ^2 /NDF:3088.5/9

Right Out: 125.435 $\pm$ 0.790 χ^2 /NDF: 3503.2/18

Left In: 46.247 $\pm$ 0.708 χ^2 /NDF:83.0/8

Left: 47.411 $\pm$ 0.509 χ^2 /NDF: 3177.1/18

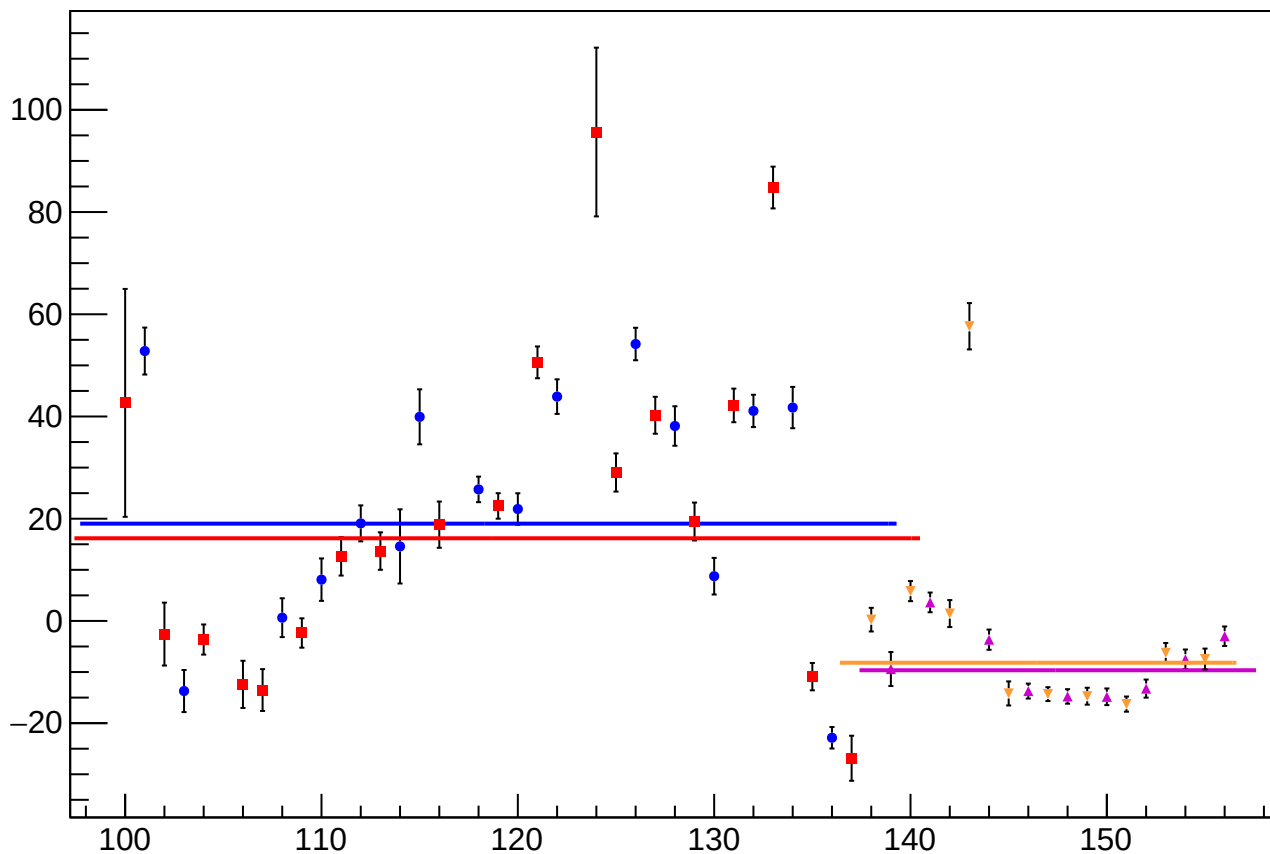
Right: 127.500 $\pm$ 0.562 χ^2 /NDF: 7141.4/34

In: 82.807 $\pm$ 0.530 χ^2 /NDF:9796.3/24

Out: 84.152 $\pm$ 0.537 χ^2 /NDF:11672.8/28

All: 83.471 $\pm$ 0.377 χ^2 /NDF: 21472.3/53

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: -8.177 ± 0.609 $\chi^2/\text{NDF}: 361.8/9$

Right Out: 16.173 ± 0.846 $\chi^2/\text{NDF}: 941.3/18$

Left In: -9.650 ± 0.595 $\chi^2/\text{NDF}: 105.0/8$

Left: -8.931 ± 0.426 $\chi^2/\text{NDF}: 469.9/18$

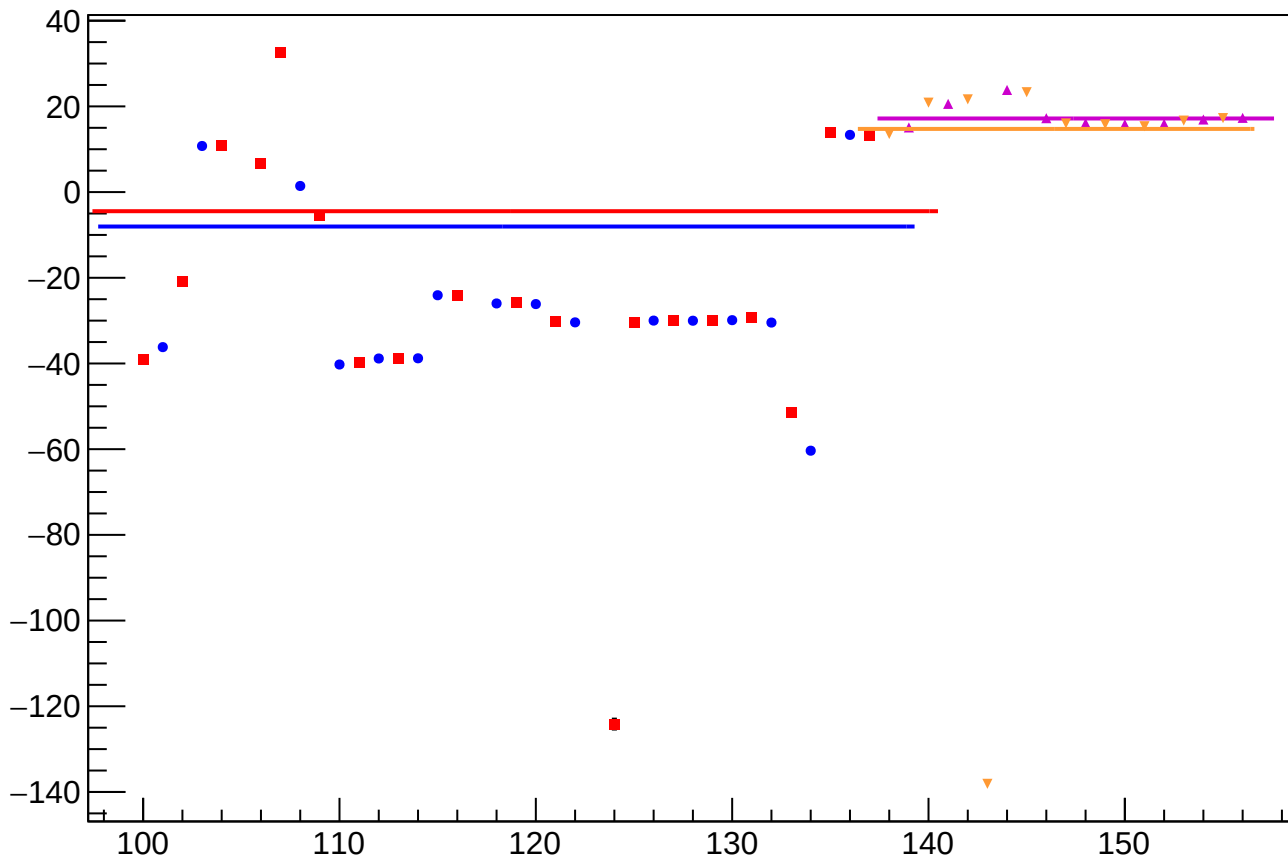
Right: 17.581 ± 0.603 $\chi^2/\text{NDF}: 1804.9/34$

In: -0.366 ± 0.489 $\chi^2/\text{NDF}: 1715.7/24$

Out: 0.138 ± 0.494 $\chi^2/\text{NDF}: 1848.7/28$

All: -0.117 ± 0.348 $\chi^2/\text{NDF}: 3565.0/53$

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.038 $\pm$ 0.046 χ^2/NDF : 267883.6/15

Left Out: 14.743 $\pm$ 0.029 χ^2/NDF : 472623.6/9

Right Out: -4.461 $\pm$ 0.047 χ^2/NDF : 228422.2/18

Left In: 17.177 $\pm$ 0.027 χ^2/NDF : 6953.4/8

Left: 16.048 $\pm$ 0.020 χ^2/NDF : 483378.8/18

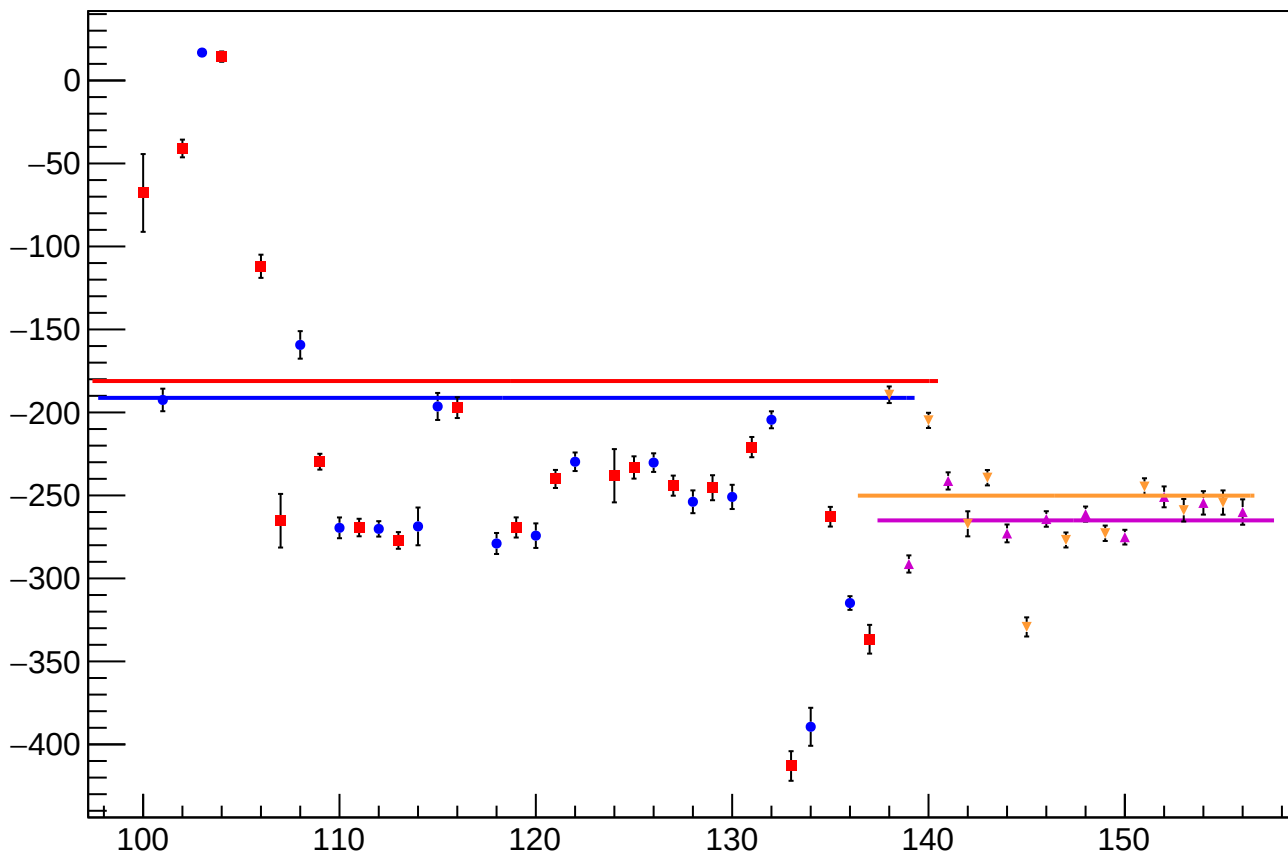
Right: -6.287 $\pm$ 0.033 χ^2/NDF : 499287.4/34

In: 10.722 $\pm$ 0.023 χ^2/NDF : 500064.5/24

Out: 9.441 $\pm$ 0.025 χ^2/NDF : 822941.6/28

All: 10.119 $\pm$ 0.017 χ^2/NDF : 1324442.9/53

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -191.225 ± 1.419 $\chi^2/\text{NDF}: 7224.7/15$

Left Out: -250.127 ± 1.673 $\chi^2/\text{NDF}: 506.3/9$

Right Out: -181.080 ± 1.383 $\chi^2/\text{NDF}: 7374.0/18$

Left In: -265.043 ± 1.778 $\chi^2/\text{NDF}: 62.5/8$

Left: -257.133 ± 1.219 $\chi^2/\text{NDF}: 606.2/18$

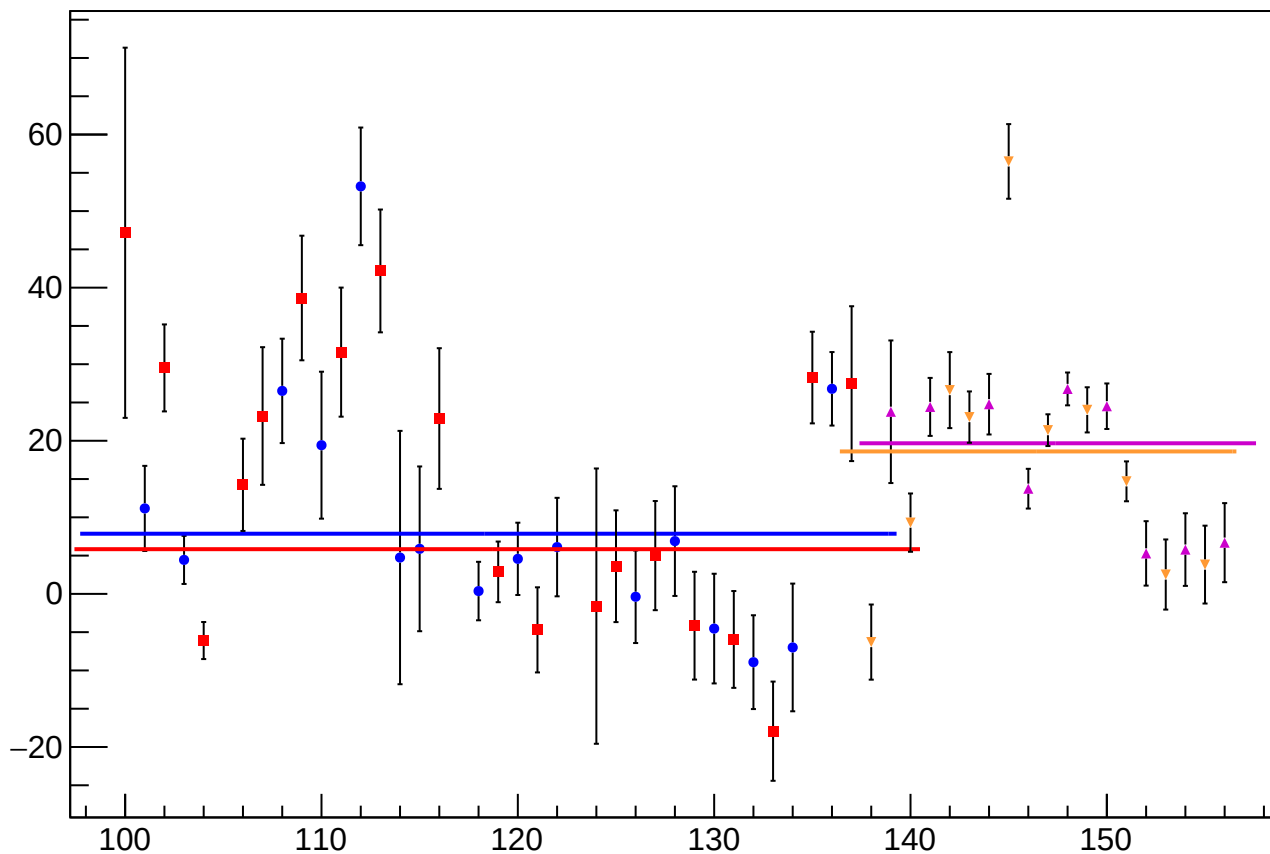
Right: -186.022 ± 0.990 $\chi^2/\text{NDF}: 14624.9/34$

In: -219.937 ± 1.109 $\chi^2/\text{NDF}: 8340.4/24$

Out: -209.092 ± 1.066 $\chi^2/\text{NDF}: 8892.2/28$

All: -214.299 ± 0.768 $\chi^2/\text{NDF}: 17282.4/53$

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: 18.607 ± 1.076 $\chi^2/\text{NDF}: 124.7/9$

Right Out: 5.839 ± 1.355 $\chi^2/\text{NDF}: 141.9/18$

Left In: 19.672 ± 1.145 $\chi^2/\text{NDF}: 48.8/8$

Left: 19.106 ± 0.784 $\chi^2/\text{NDF}: 174.0/18$

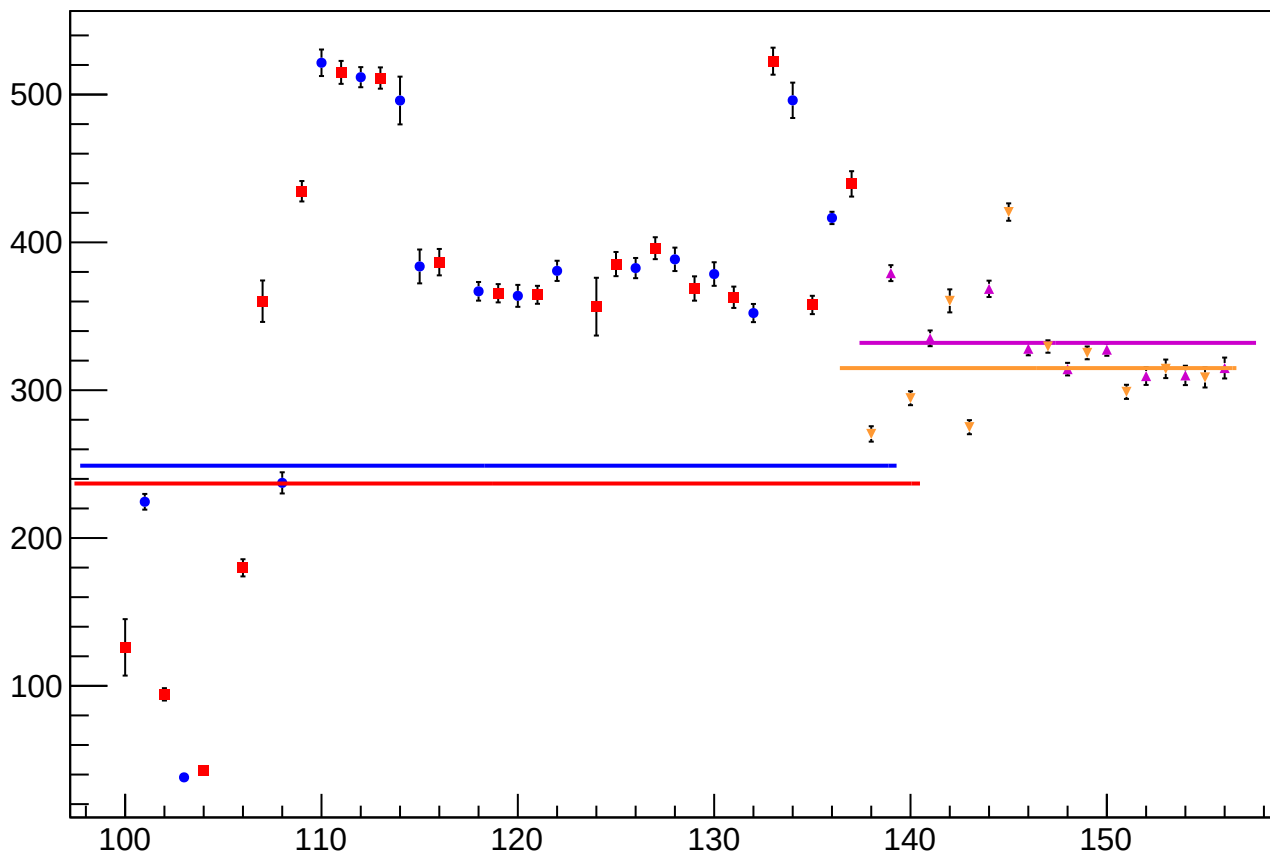
Right: 6.789 ± 0.986 $\chi^2/\text{NDF}: 223.8/34$

In: 15.087 ± 0.896 $\chi^2/\text{NDF}: 171.0/24$

Out: 13.669 ± 0.843 $\chi^2/\text{NDF}: 321.0/28$

All: 14.335 ± 0.614 $\chi^2/\text{NDF}: 493.3/53$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 248.932 $\pm$ 1.422 χ^2 /NDF: 15302.2/15

Left Out: 314.955 $\pm$ 1.641 χ^2 /NDF: 547.5/9

Right Out: 236.871 $\pm$ 1.407 χ^2 /NDF: 15657.3/18

Left In: 332.015 $\pm$ 1.723 χ^2 /NDF: 170.9/8

Left: 323.067 $\pm$ 1.188 χ^2 /NDF: 769.8/18

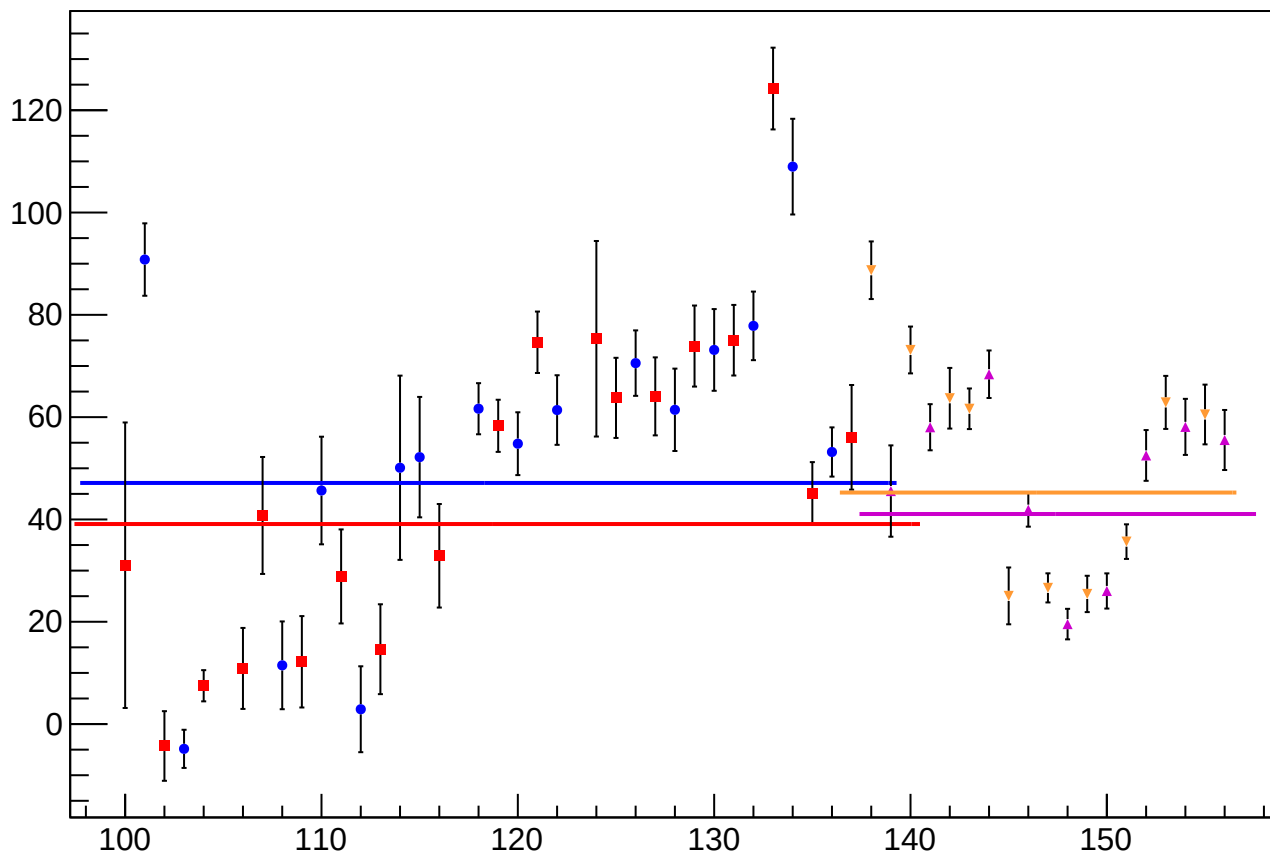
Right: 242.838 $\pm$ 1.000 χ^2 /NDF: 30995.9/34

In: 282.583 $\pm$ 1.097 χ^2 /NDF: 16856.3/24

Out: 269.951 $\pm$ 1.068 χ^2 /NDF: 17510.2/28

All: 276.099 $\pm$ 0.765 χ^2 /NDF: 34434.5/53

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: 45.260 $\pm$ 1.336 χ^2 /NDF: 237.0/9

Right Out: 39.105 $\pm$ 1.596 χ^2 /NDF: 416.5/18

Left In: 41.065 $\pm$ 1.416 χ^2 /NDF: 141.3/8

Left: 43.284 $\pm$ 0.972 χ^2 /NDF: 382.9/18

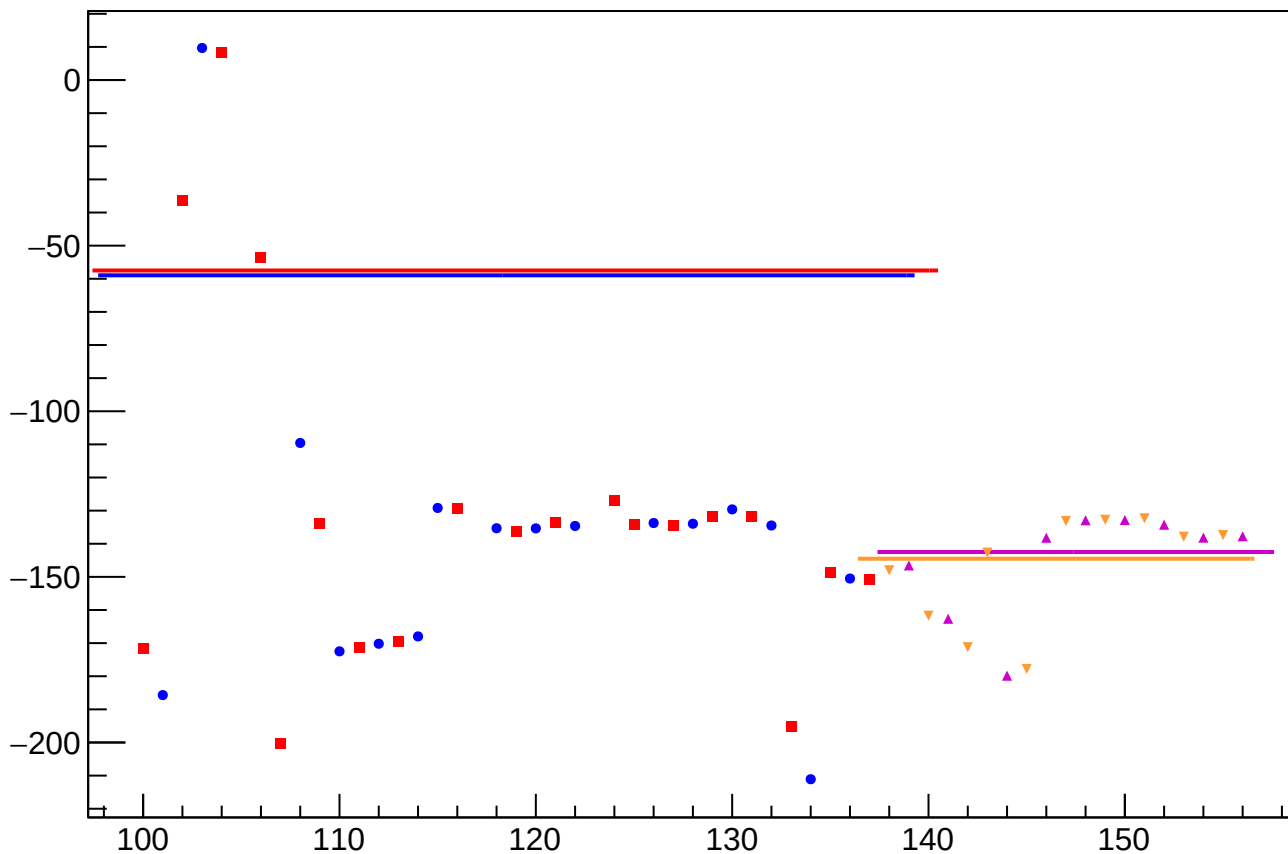
Right: 42.944 $\pm$ 1.153 χ^2 /NDF: 813.9/34

In: 43.608 $\pm$ 1.079 χ^2 /NDF: 534.3/24

Out: 42.724 $\pm$ 1.024 χ^2 /NDF: 662.2/28

All: 43.143 $\pm$ 0.743 χ^2 /NDF: 1196.8/53

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -58.956 ± 0.073 $\chi^2/\text{NDF}: 1227079.0/15$

Left Out: -144.516 ± 0.067 $\chi^2/\text{NDF}: 48339.5/9$

Right Out: -57.497 ± 0.074 $\chi^2/\text{NDF}: 871305.9/18$

Left In: -142.494 ± 0.067 $\chi^2/\text{NDF}: 40849.5/8$

Left: -143.514 ± 0.047 $\chi^2/\text{NDF}: 89646.3/18$

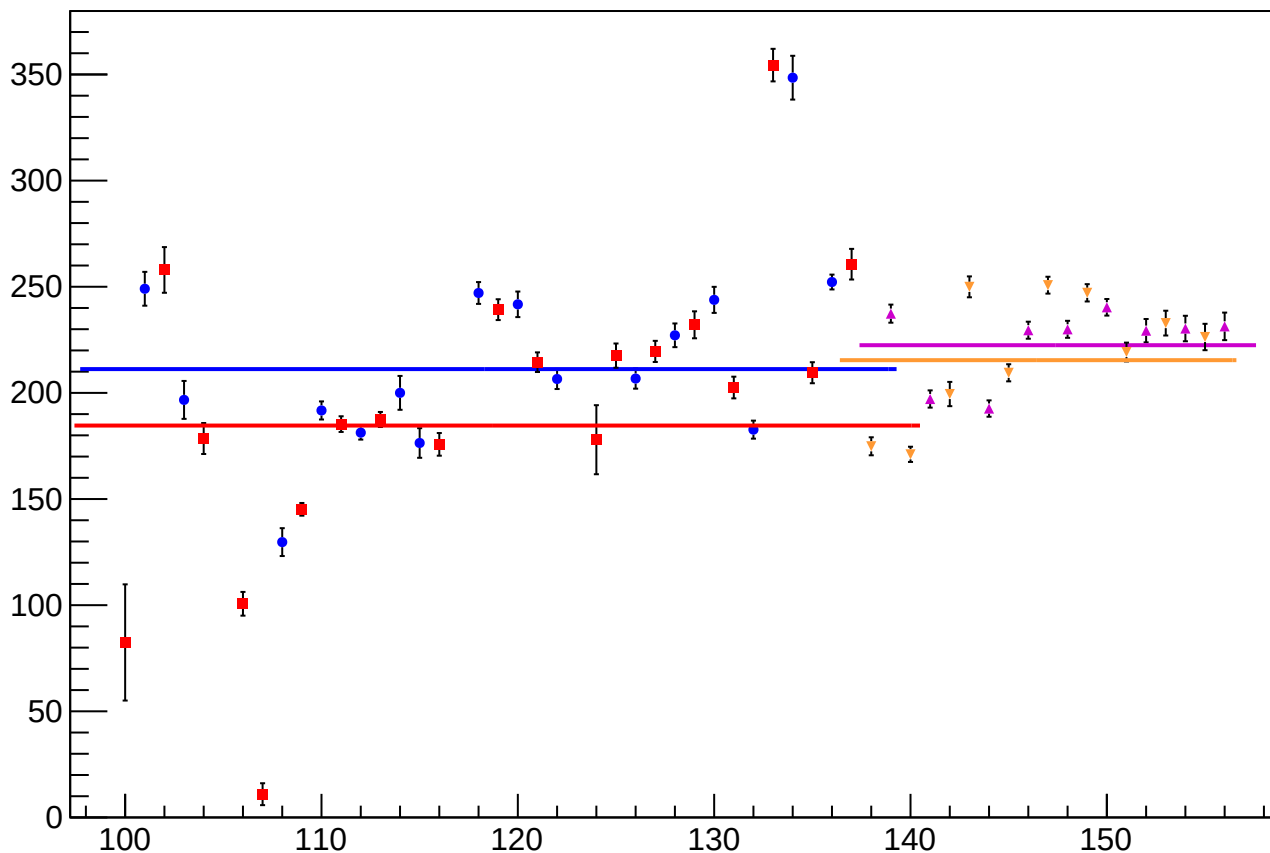
Right: -58.243 ± 0.052 $\chi^2/\text{NDF}: 2098582.3/34$

In: -103.986 ± 0.049 $\chi^2/\text{NDF}: 1981486.8/24$

Out: -105.766 ± 0.050 $\chi^2/\text{NDF}: 1681302.5/28$

All: -104.871 ± 0.035 $\chi^2/\text{NDF}: 3663438.2/53$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.210 ± 1.296 $\chi^2/\text{NDF}: 783.0/15$

Left Out: 215.414 ± 1.419 $\chi^2/\text{NDF}: 456.0/9$

Right Out: 184.614 ± 1.194 $\chi^2/\text{NDF}: 2540.4/18$

Left In: 222.466 ± 1.478 $\chi^2/\text{NDF}: 143.8/8$

Left: 218.796 ± 1.024 $\chi^2/\text{NDF}: 611.7/18$

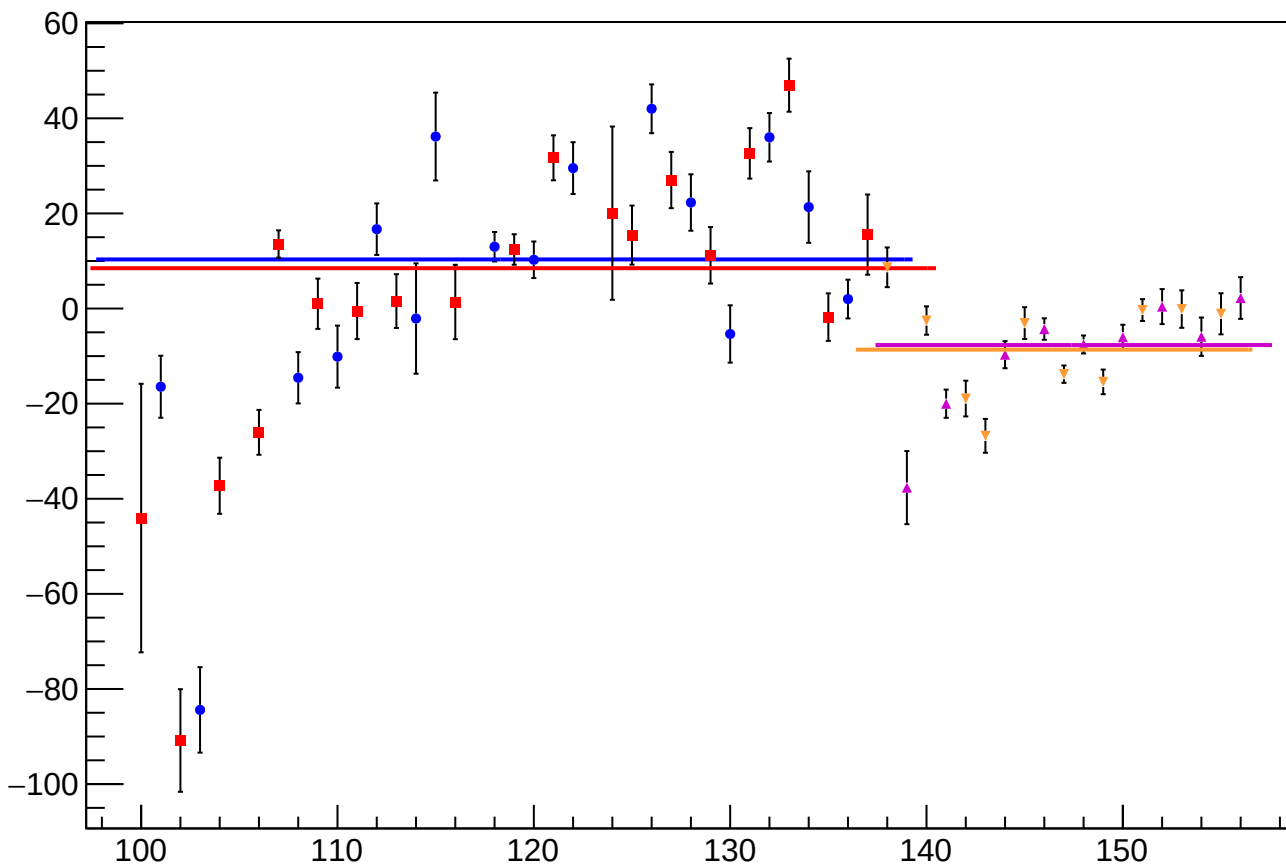
Right: 196.825 ± 0.878 $\chi^2/\text{NDF}: 3551.2/34$

In: 216.101 ± 0.974 $\chi^2/\text{NDF}: 959.6/24$

Out: 197.376 ± 0.914 $\chi^2/\text{NDF}: 3272.2/28$

All: 206.136 ± 0.666 $\chi^2/\text{NDF}: 4428.2/53$

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: -8.642+/-0.926 χ^2/NDF : 93.4/9

Right Out: 8.480+/-1.225 χ^2/NDF : 322.3/18

Left In: -7.679+/-0.969 χ^2/NDF : 45.7/8

Left: -8.182+/-0.670 χ^2/NDF : 139.6/18

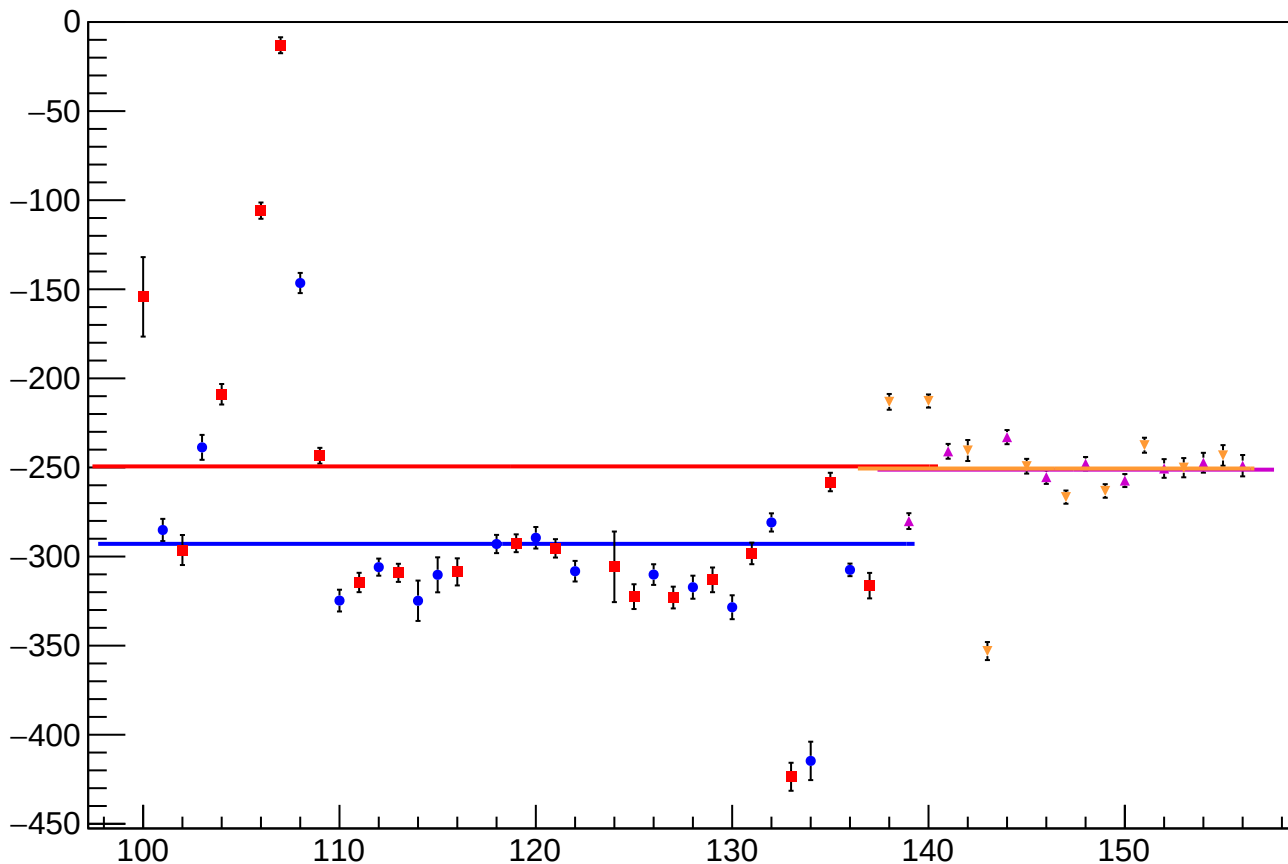
Right: 9.326+/-0.902 χ^2/NDF : 586.7/34

In: -1.448+/-0.784 χ^2/NDF : 428.4/24

Out: -2.412+/-0.739 χ^2/NDF : 540.0/28

All: -1.959+/-0.538 χ^2/NDF : 969.2/53

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -250.903 +/- 1.002 χ^2/NDF : 705.6/18

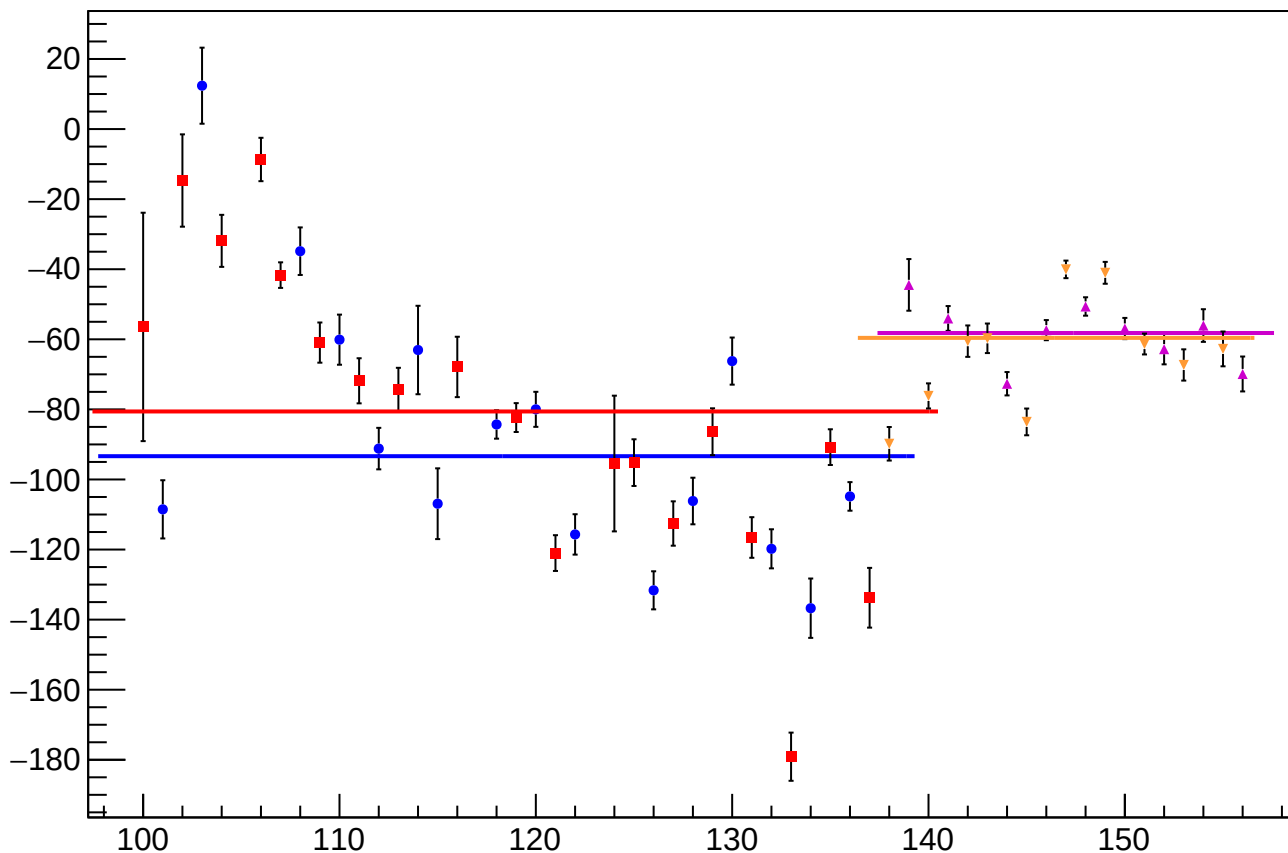
Right: -269.627 +/- 1.001 χ^2/NDF : 6821.1/34

In: -271.657 +/- 1.028 χ^2/NDF : 1468.7/24

Out: -249.986 +/- 0.977 χ^2/NDF : 5999.3/28

All: -260.277 +/- 0.708 χ^2/NDF : 7701.5/53

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.357 ± 1.534 χ^2/NDF : 355.3/15

Left Out: -59.592 ± 1.146 χ^2/NDF : 200.8/9

Right Out: -80.592 ± 1.424 χ^2/NDF : 715.3/18

Left In: -58.198 ± 1.192 χ^2/NDF : 39.1/8

Left: -58.923 ± 0.826 χ^2/NDF : 240.6/18

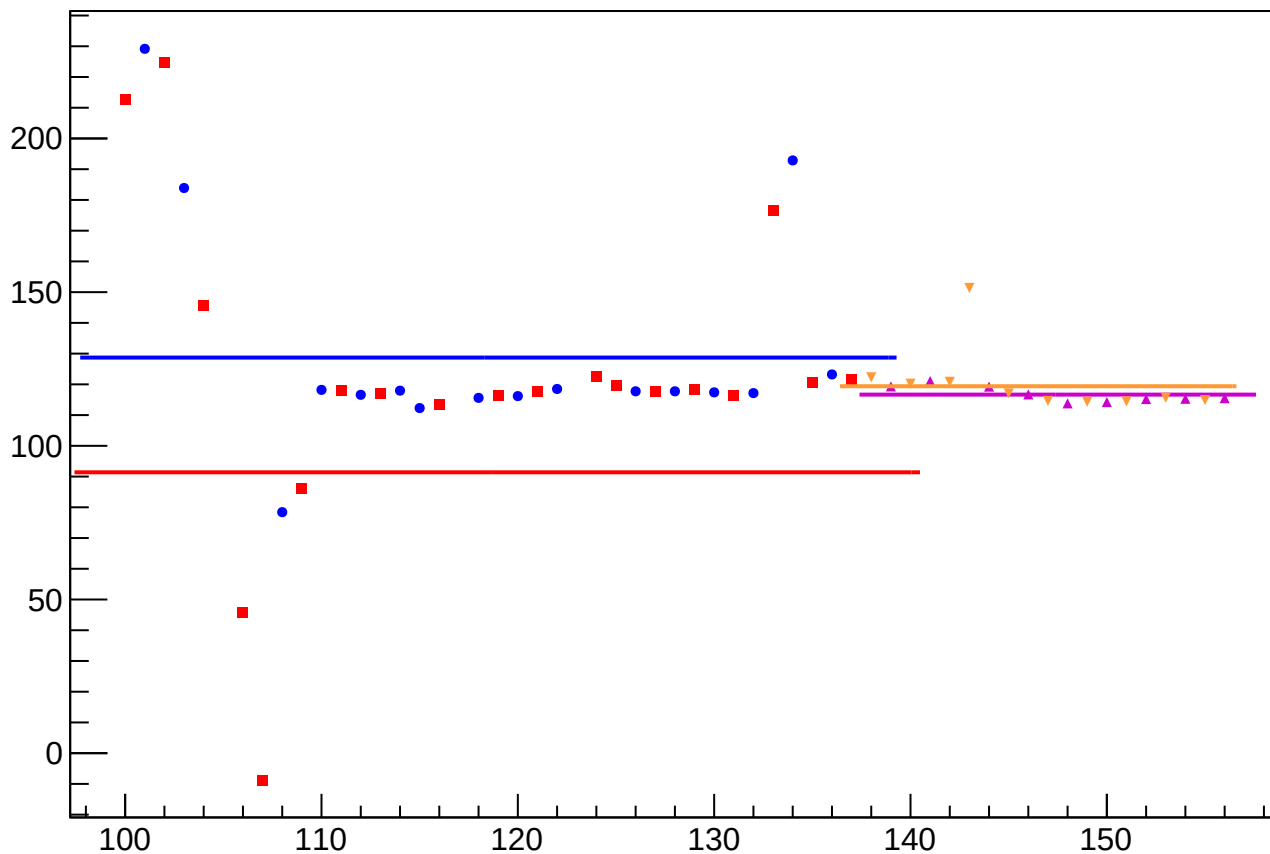
Right: -86.499 ± 1.044 χ^2/NDF : 1107.8/34

In: -71.437 ± 0.942 χ^2/NDF : 721.8/24

Out: -67.844 ± 0.893 χ^2/NDF : 1048.2/28

All: -69.545 ± 0.648 χ^2/NDF : 1777.6/53

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: 119.391 $\pm$ 0.057 χ^2 /NDF: 27128.3/9

Right Out: 91.385 $\pm$ 0.079 χ^2 /NDF: 604912.4/18

Left In: 116.661 $\pm$ 0.056 χ^2 /NDF: 1936.6/8

Left: 118.021 $\pm$ 0.040 χ^2 /NDF: 30234.7/18

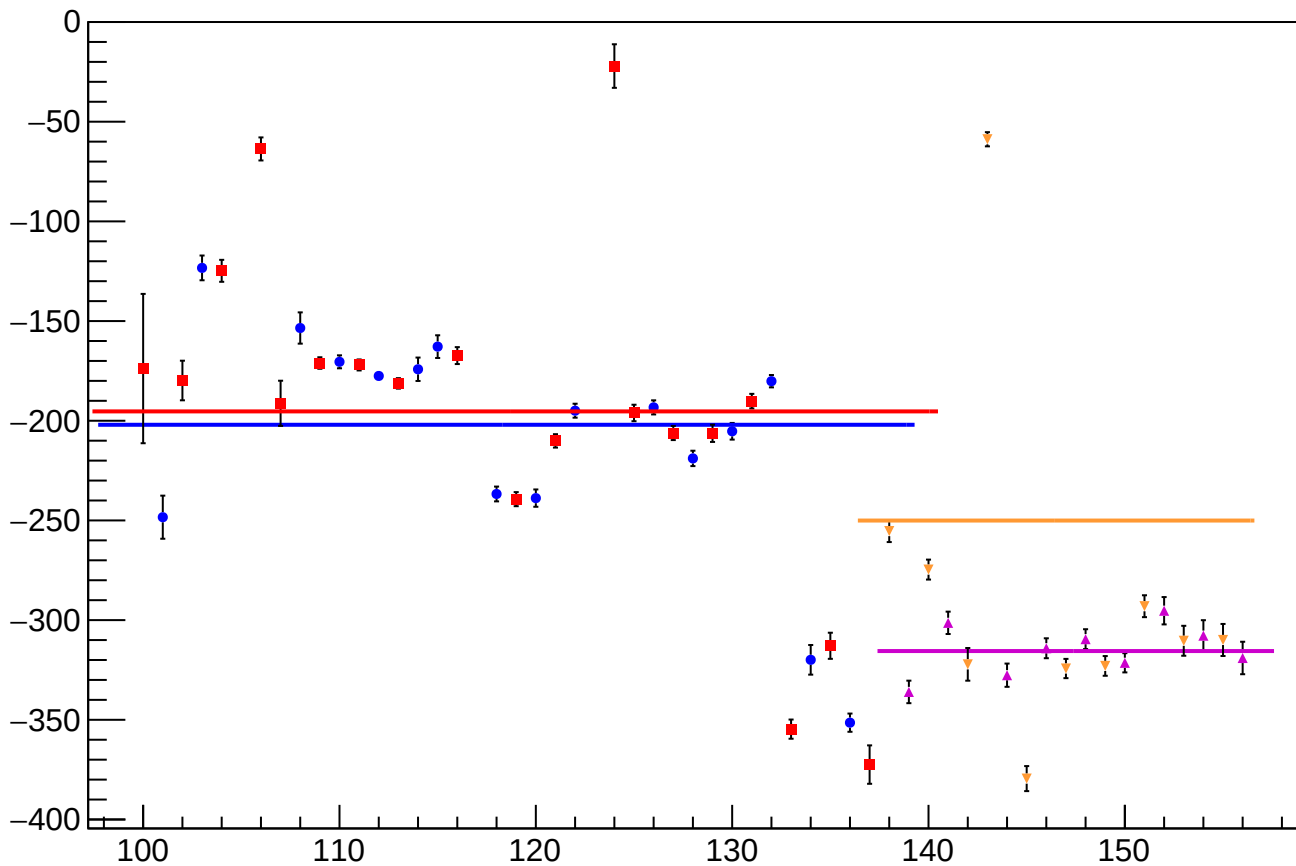
Right: 107.821 $\pm$ 0.059 χ^2 /NDF: 886599.9/34

In: 120.101 $\pm$ 0.048 χ^2 /NDF: 198527.8/24

Out: 109.909 $\pm$ 0.046 χ^2 /NDF: 715041.4/28

All: 114.829 $\pm$ 0.033 χ^2 /NDF: 937265.0/53

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -202.020 ± 1.024 $\chi^2/\text{NDF}: 2040.4/15$

Left Out: -250.054 ± 1.709 $\chi^2/\text{NDF}: 4051.7/9$

Right Out: -195.311 ± 0.974 $\chi^2/\text{NDF}: 3100.7/18$

Left In: -315.514 ± 1.928 $\chi^2/\text{NDF}: 36.8/8$

Left: -278.869 ± 1.279 $\chi^2/\text{NDF}: 4734.0/18$

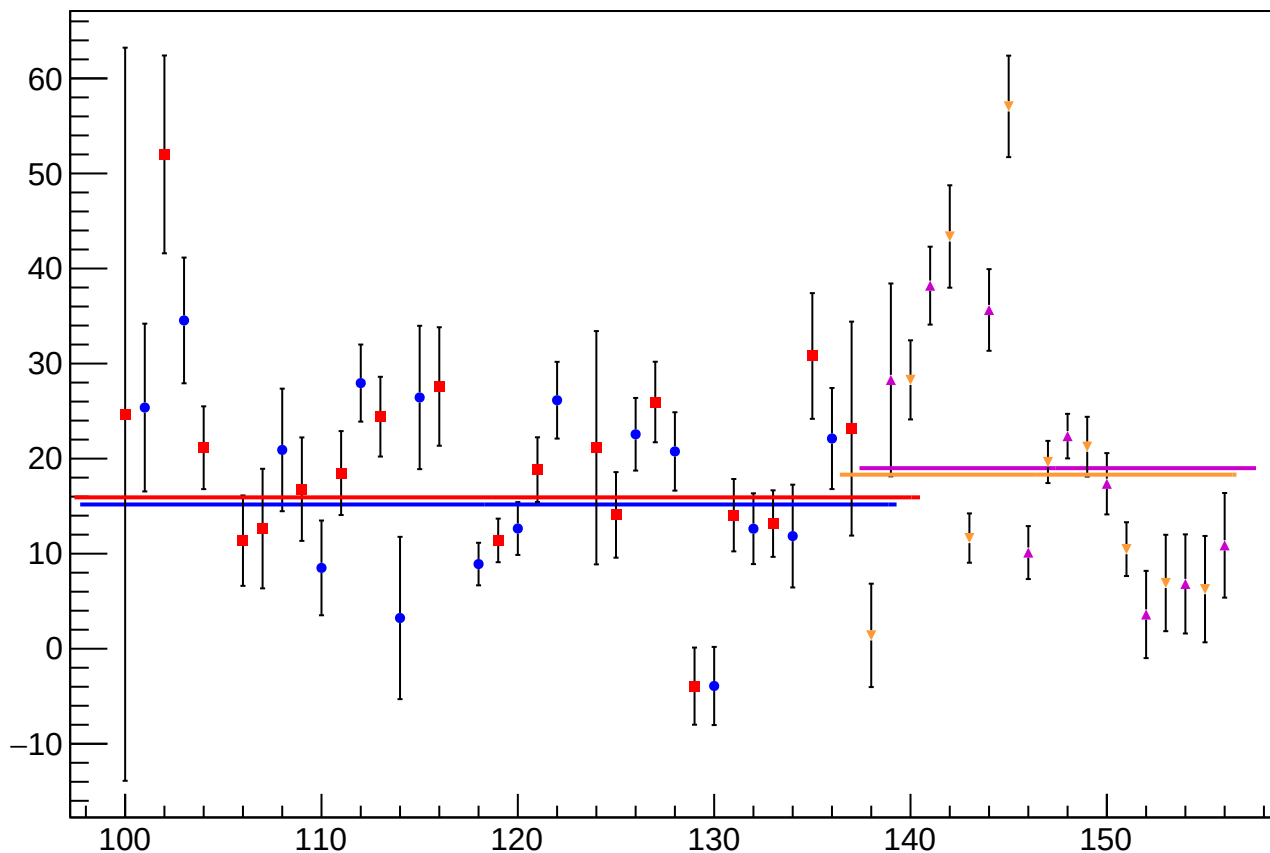
Right: -198.498 ± 0.706 $\chi^2/\text{NDF}: 5163.6/34$

In: -227.003 ± 0.904 $\chi^2/\text{NDF}: 4780.9/24$

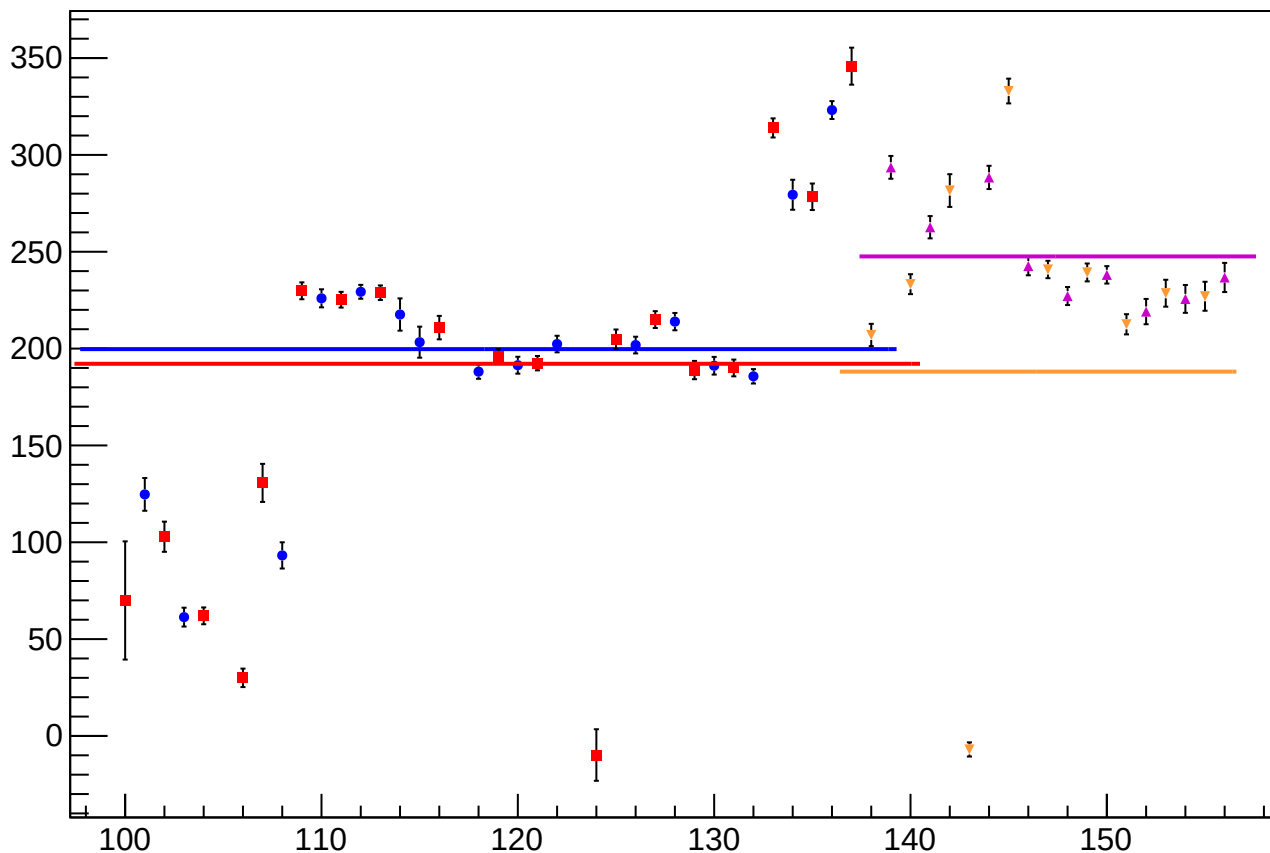
Out: -208.732 ± 0.846 $\chi^2/\text{NDF}: 7926.7/28$

All: -217.262 ± 0.618 $\chi^2/\text{NDF}: 12925.1/53$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 188.100 $\pm$ 1.684 χ^2 /NDF:3907.2/9

Right Out: 192.156 $\pm$ 1.150 χ^2 /NDF: 3777.1/18

Left In: 247.587 $\pm$ 1.868 χ^2 /NDF:169.2/8

Left: 214.769 $\pm$ 1.251 χ^2 /NDF: 4635.9/18

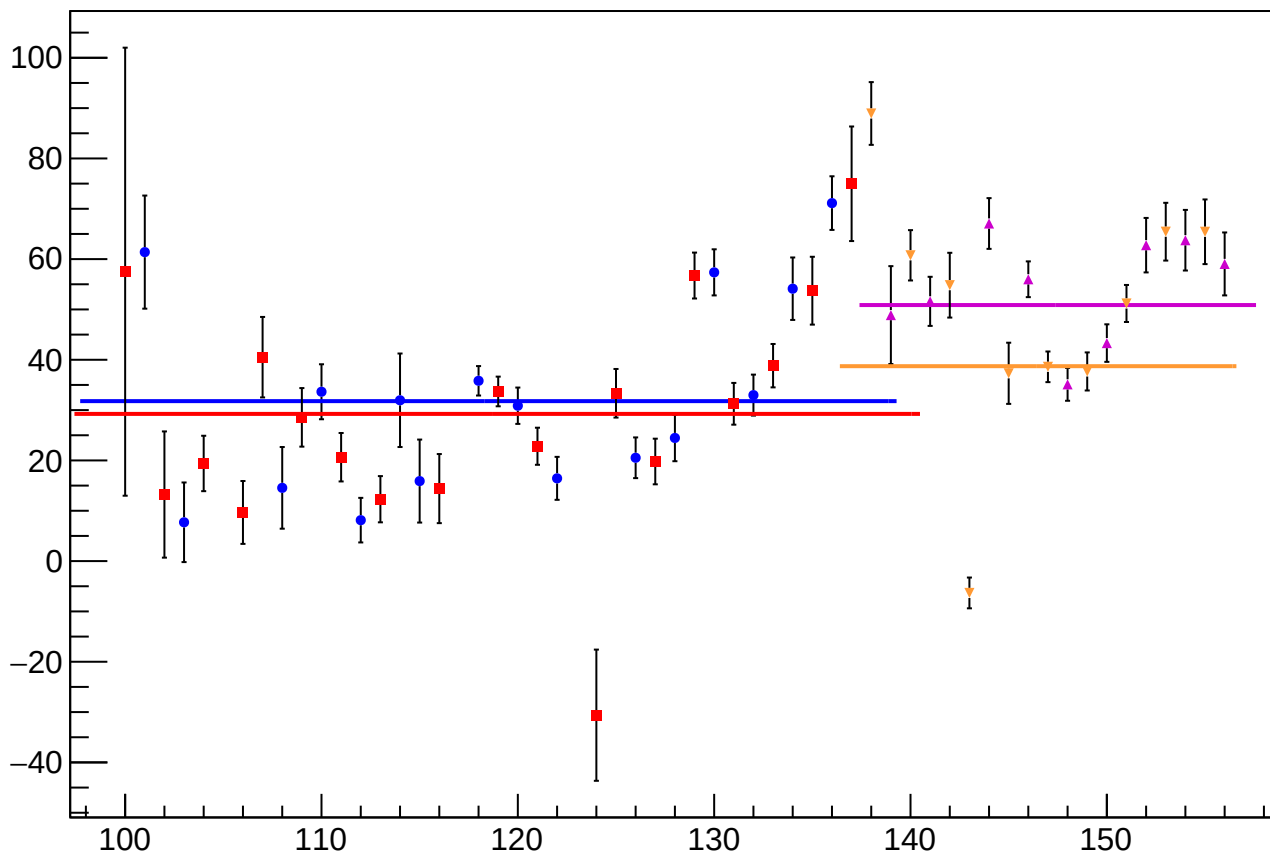
Right: 195.793 $\pm$ 0.829 χ^2 /NDF: 5899.5/34

In: 213.633 $\pm$ 1.007 χ^2 /NDF:2736.6/24

Out: 190.865 $\pm$ 0.950 χ^2 /NDF:7688.3/28

All: 201.585 $\pm$ 0.691 χ^2 /NDF: 10695.3/53

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.782 ± 1.217 $\chi^2/\text{NDF}: 177.0/15$

Left Out: 38.725 ± 1.373 $\chi^2/\text{NDF}: 358.1/9$

Right Out: 29.245 ± 1.197 $\chi^2/\text{NDF}: 140.9/18$

Left In: 50.873 ± 1.535 $\chi^2/\text{NDF}: 51.0/8$

Left: 44.126 ± 1.024 $\chi^2/\text{NDF}: 443.9/18$

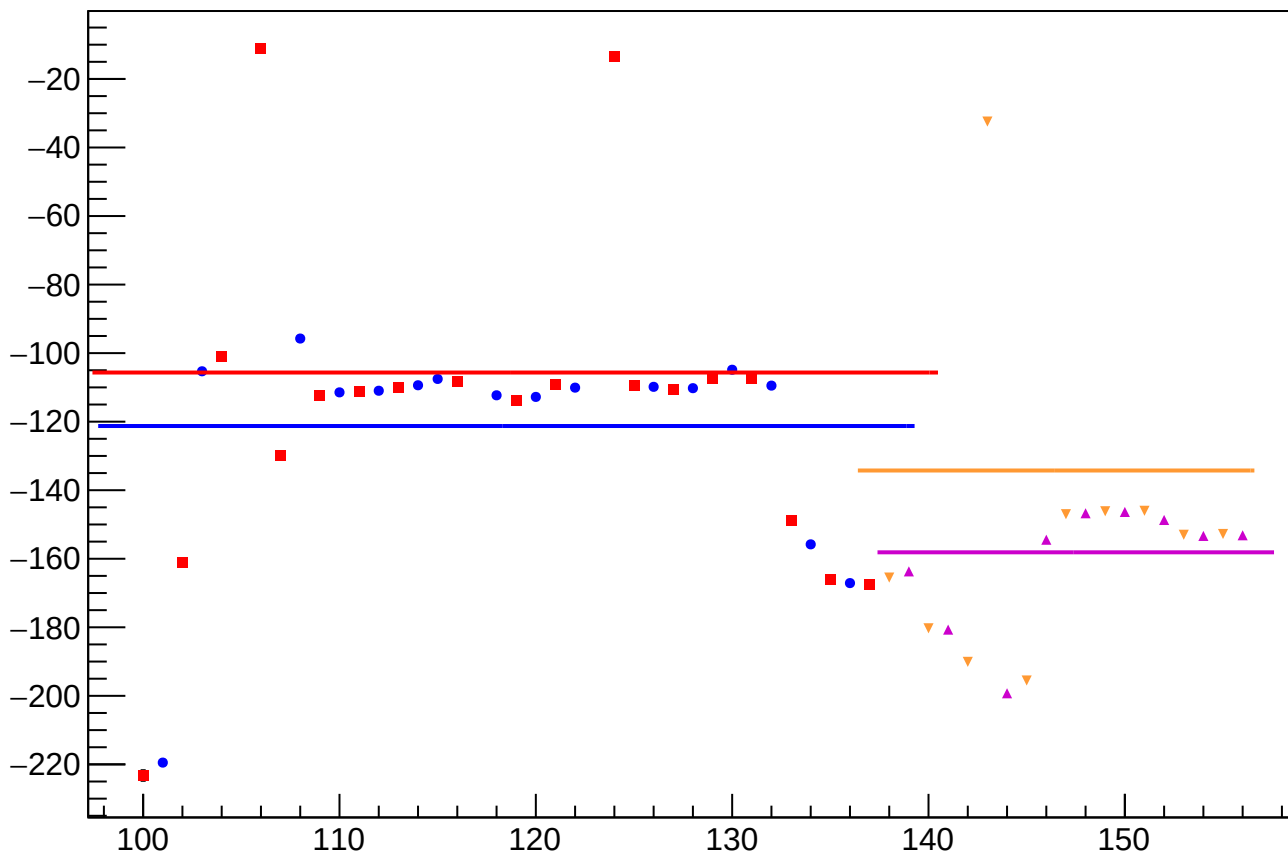
Right: 30.492 ± 0.853 $\chi^2/\text{NDF}: 320.1/34$

In: 39.146 ± 0.953 $\chi^2/\text{NDF}: 323.0/24$

Out: 33.336 ± 0.902 $\chi^2/\text{NDF}: 526.1/28$

All: 36.081 ± 0.655 $\chi^2/\text{NDF}: 868.7/53$

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: -134.248+/-0.068 χ^2/NDF : 614483.3/9

Right Out: -105.660+/-0.075 χ^2/NDF : 355093.7/18

Left In: -158.122+/-0.073 χ^2/NDF : 43762.4/8

Left: -145.454+/-0.050 χ^2/NDF : 715285.2/18

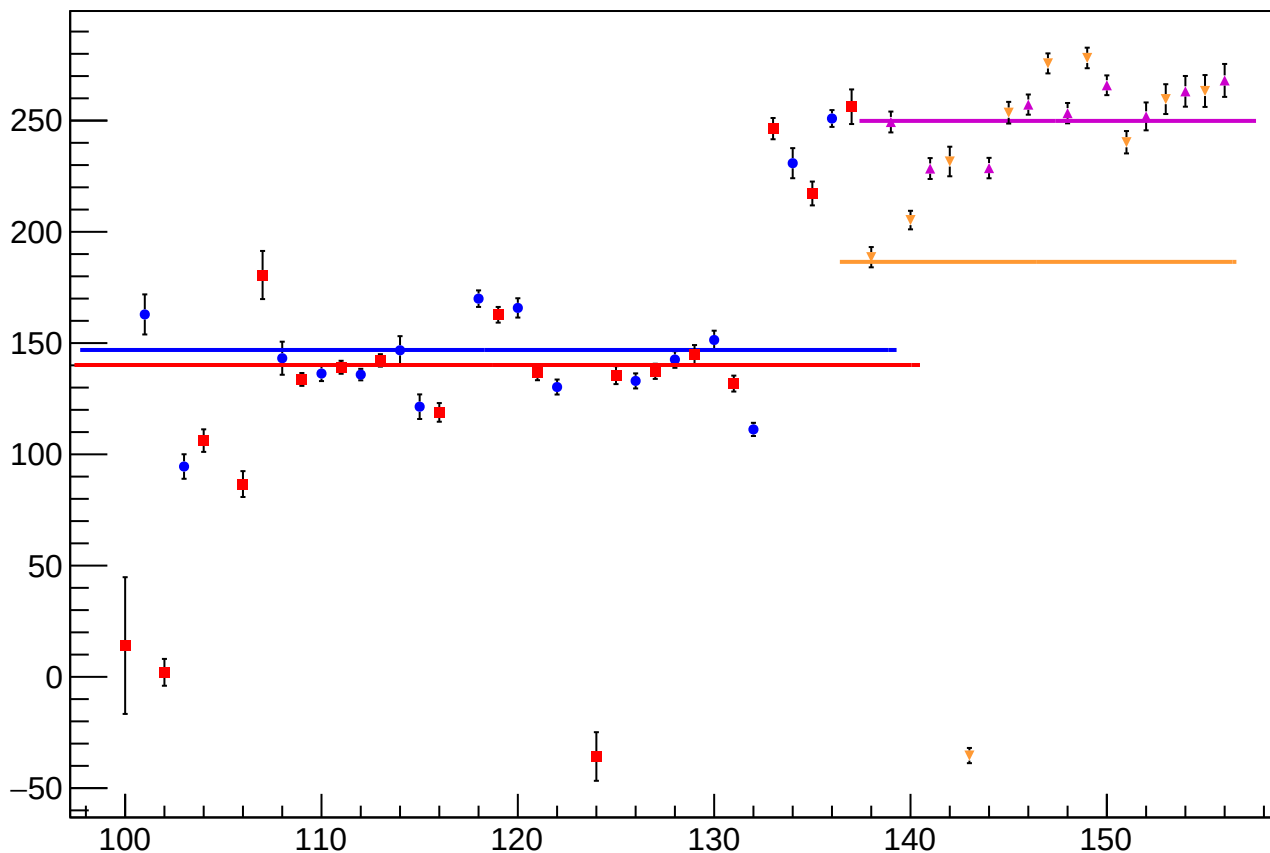
Right: -113.006+/-0.054 χ^2/NDF : 495037.6/34

In: -141.245+/-0.054 χ^2/NDF : 280468.6/24

Out: -121.193+/-0.050 χ^2/NDF : 1049148.3/28

All: -130.617+/-0.037 χ^2/NDF : 1403768.2/53

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: 186.503 $\pm$ 1.519 χ^2 /NDF:5602.6/9

Right Out: 140.153 $\pm$ 0.960 χ^2 /NDF: 1950.6/18

Left In: 249.854 $\pm$ 1.690 χ^2 /NDF:68.2/8

Left: 214.812 $\pm$ 1.129 χ^2 /NDF: 6448.5/18

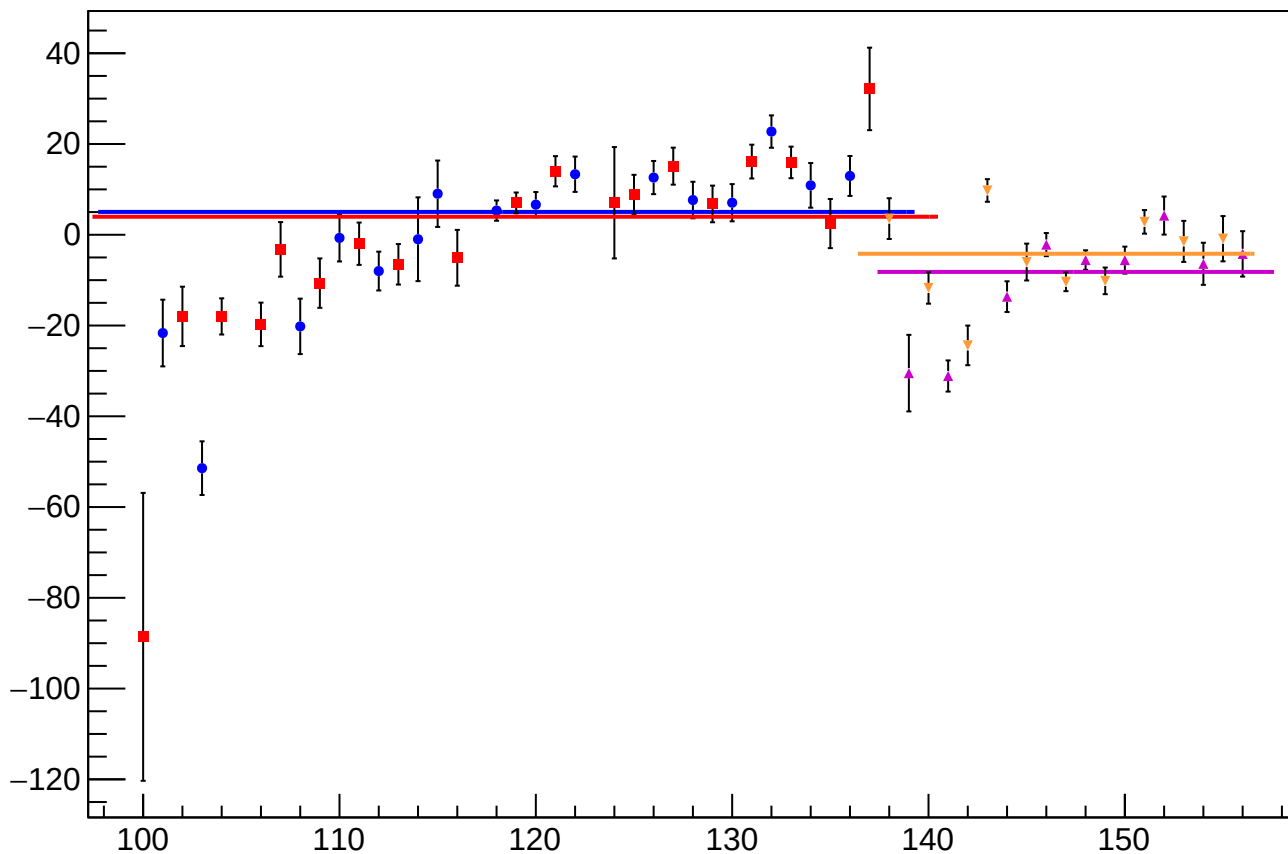
Right: 143.381 $\pm$ 0.694 χ^2 /NDF: 3276.2/34

In: 173.745 $\pm$ 0.863 χ^2 /NDF:4115.1/24

Out: 153.388 $\pm$ 0.811 χ^2 /NDF:8218.8/28

All: 162.945 $\pm$ 0.591 χ^2 /NDF: 12629.3/53

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.037 ± 1.021 $\chi^2/\text{NDF}: 171.9/15$

Left Out: -4.185 ± 1.003 $\chi^2/\text{NDF}: 81.7/9$

Right Out: 3.974 ± 1.012 $\chi^2/\text{NDF}: 144.9/18$

Left In: -8.187 ± 1.110 $\chi^2/\text{NDF}: 71.6/8$

Left: -5.984 ± 0.744 $\chi^2/\text{NDF}: 160.5/18$

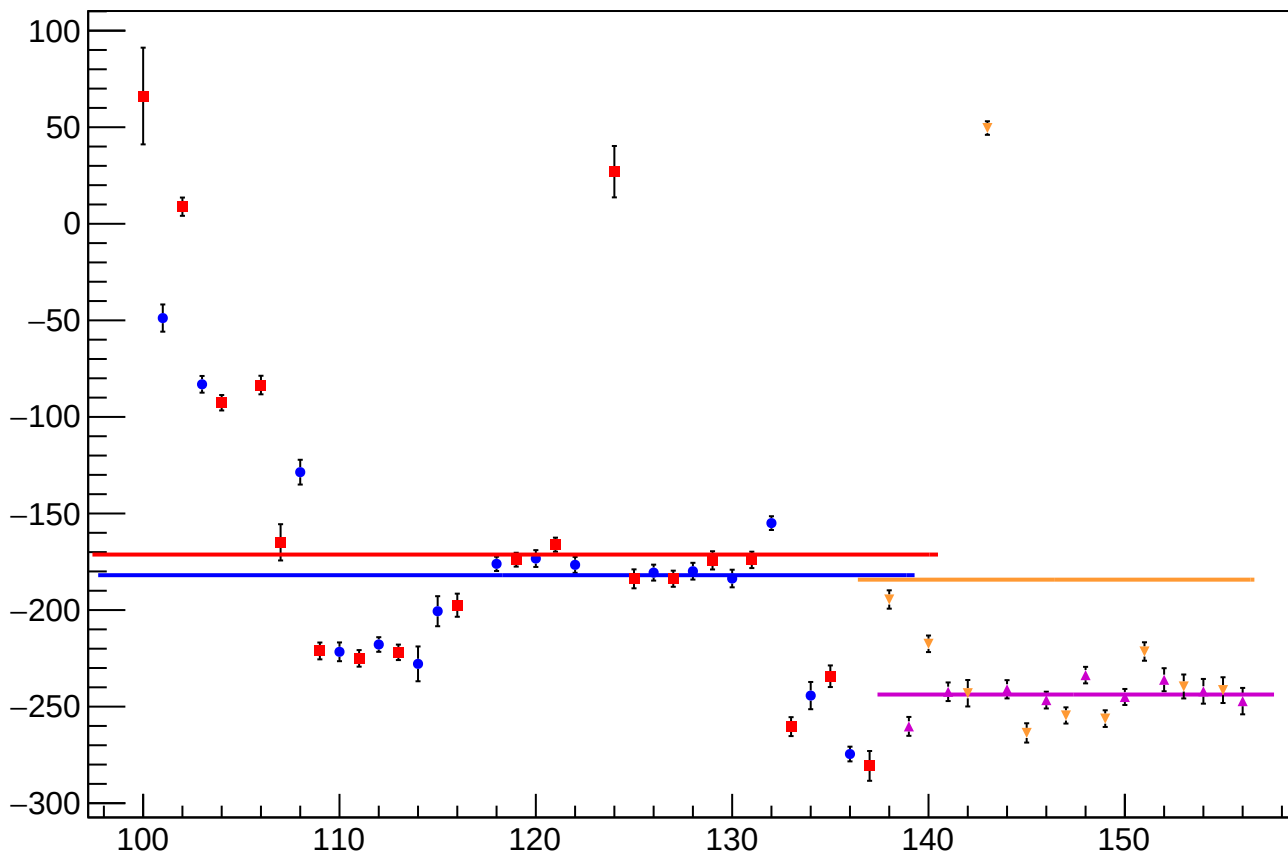
Right: 4.501 ± 0.719 $\chi^2/\text{NDF}: 317.3/34$

In: -1.025 ± 0.751 $\chi^2/\text{NDF}: 320.3/24$

Out: -0.141 ± 0.712 $\chi^2/\text{NDF}: 259.4/28$

All: -0.560 ± 0.517 $\chi^2/\text{NDF}: 580.5/53$

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: -184.255 ± 1.501 $\chi^2/\text{NDF}: 5584.8/9$

Right Out: -171.262 ± 1.111 $\chi^2/\text{NDF}: 3628.2/18$

Left In: -243.736 ± 1.645 $\chi^2/\text{NDF}: 19.8/8$

Left: -211.280 ± 1.109 $\chi^2/\text{NDF}: 6318.0/18$

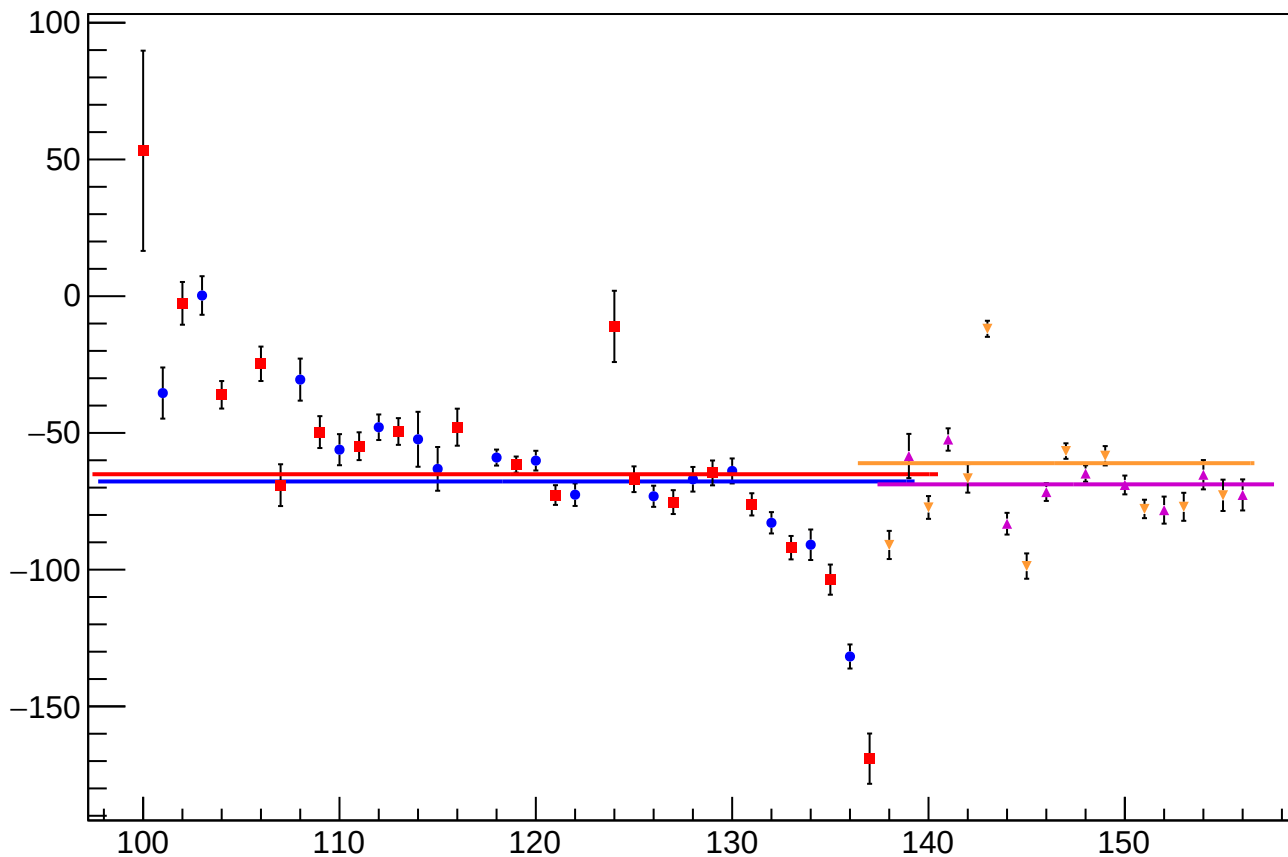
Right: -176.402 ± 0.800 $\chi^2/\text{NDF}: 5543.1/34$

In: -202.324 ± 0.945 $\chi^2/\text{NDF}: 2835.8/24$

Out: -175.860 ± 0.893 $\chi^2/\text{NDF}: 9261.4/28$

All: -188.349 ± 0.649 $\chi^2/\text{NDF}: 12511.5/53$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.745 ± 1.181 χ^2/NDF : 414.0/15

Left Out: -61.064 ± 1.235 χ^2/NDF : 436.9/9

Right Out: -65.105 ± 1.167 χ^2/NDF : 429.0/18

Left In: -68.805 ± 1.365 χ^2/NDF : 37.9/8

Left: -64.548 ± 0.916 χ^2/NDF : 492.5/18

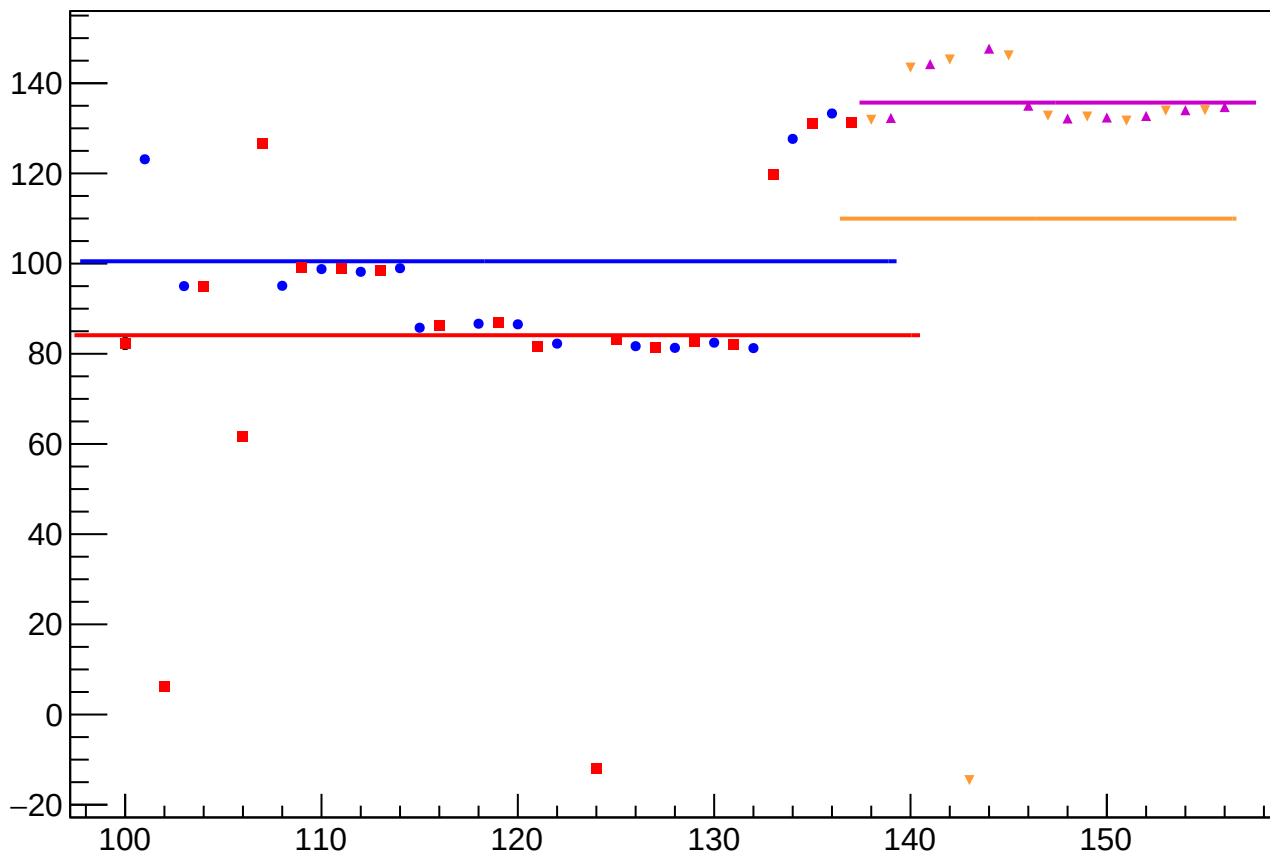
Right: -66.409 ± 0.830 χ^2/NDF : 845.6/34

In: -68.199 ± 0.893 χ^2/NDF : 452.3/24

Out: -63.200 ± 0.848 χ^2/NDF : 871.6/28

All: -65.570 ± 0.615 χ^2/NDF : 1340.4/53

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: 109.974 $\pm$ 0.061 χ^2 /NDF: 888597.1/9

Right Out: 84.116 $\pm$ 0.069 χ^2 /NDF: 263788.9/18

Left In: 135.704 $\pm$ 0.064 χ^2 /NDF: 6542.4/8

Left: 122.170 $\pm$ 0.044 χ^2 /NDF: 979510.3/18

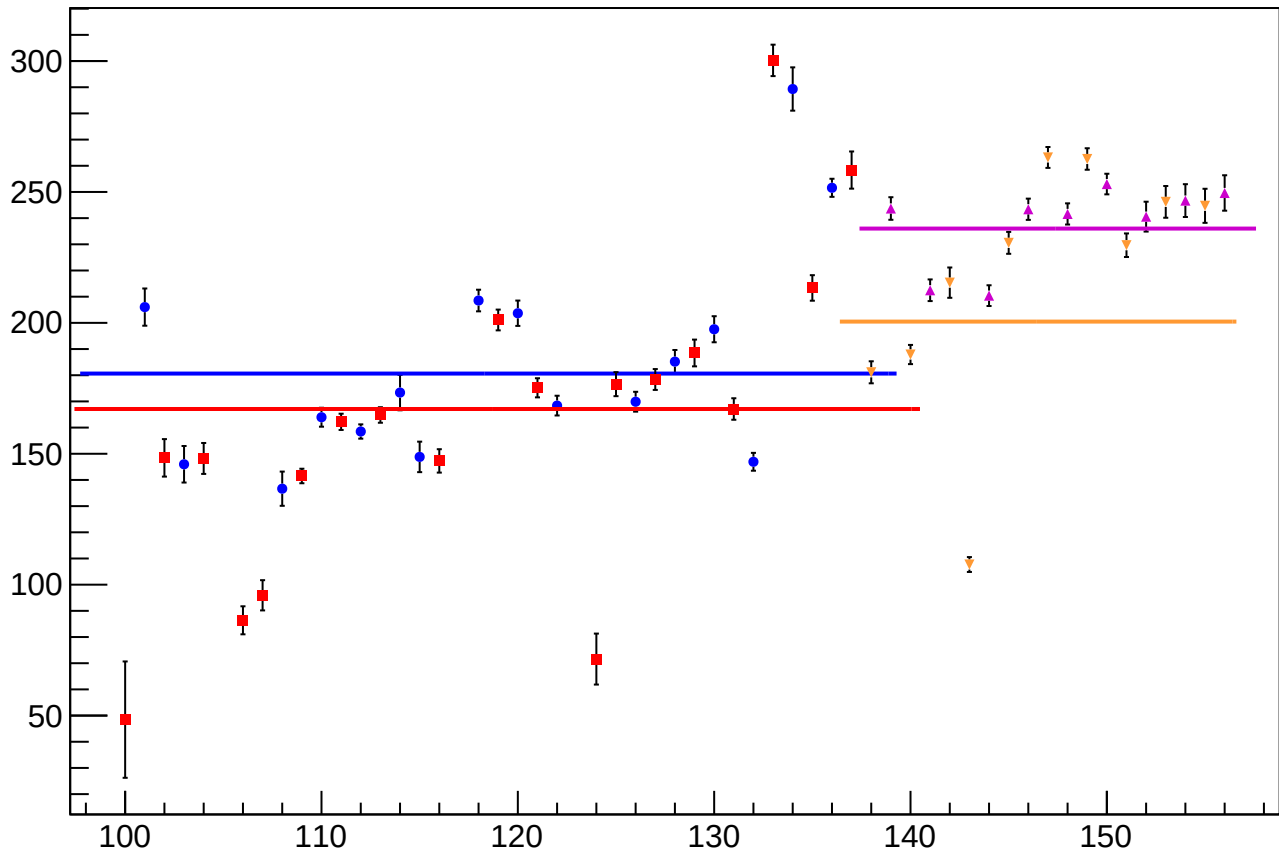
Right: 91.772 $\pm$ 0.051 χ^2 /NDF: 357470.2/34

In: 120.573 $\pm$ 0.049 χ^2 /NDF: 203005.5/24

Out: 98.671 $\pm$ 0.046 χ^2 /NDF: 1230969.4/28

All: 108.984 $\pm$ 0.033 χ^2 /NDF: 1541864.6/53

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: 200.487 $\pm$ 1.331 χ^2 /NDF:1778.5/9

Right Out: 167.102 $\pm$ 1.021 χ^2 /NDF: 1484.6/18

Left In: 236.014 $\pm$ 1.507 χ^2 /NDF:108.9/8

Left: 216.062 $\pm$ 0.998 χ^2 /NDF: 2199.7/18

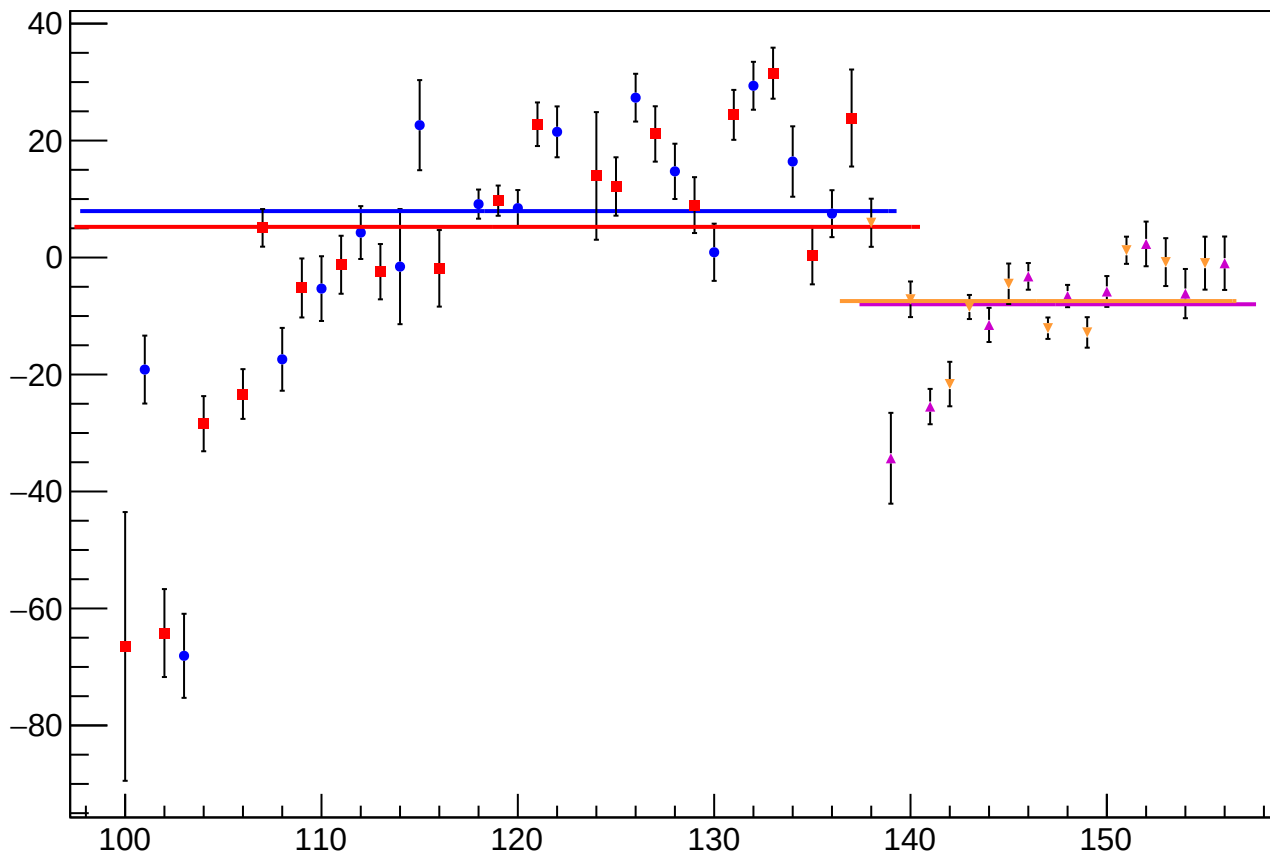
Right: 173.427 $\pm$ 0.745 χ^2 /NDF: 2560.1/34

In: 199.652 $\pm$ 0.883 χ^2 /NDF:1989.4/24

Out: 179.463 $\pm$ 0.810 χ^2 /NDF:3659.1/28

All: 188.690 $\pm$ 0.597 χ^2 /NDF: 5932.4/53

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 $\chi^2/\text{NDF}: 232.9/15$

Left Out: -7.441 ± 0.879 $\chi^2/\text{NDF}: 54.8/9$

Right Out: 5.244 ± 1.062 $\chi^2/\text{NDF}: 302.9/18$

Left In: -7.989 ± 0.986 $\chi^2/\text{NDF}: 61.9/8$

Left: -7.684 ± 0.656 $\chi^2/\text{NDF}: 116.9/18$

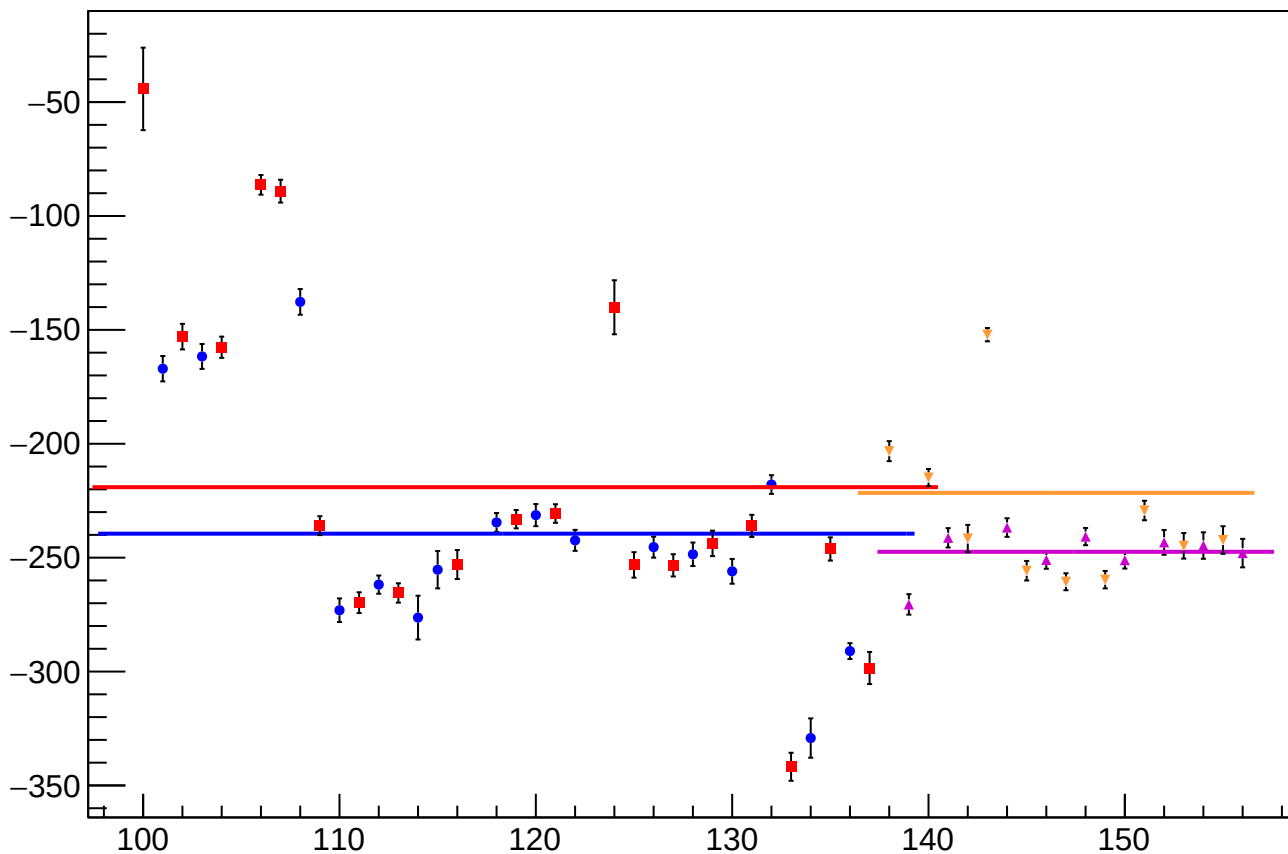
Right: 6.530 ± 0.768 $\chi^2/\text{NDF}: 538.9/34$

In: -0.983 ± 0.738 $\chi^2/\text{NDF}: 409.6/24$

Out: -2.283 ± 0.677 $\chi^2/\text{NDF}: 442.4/28$

All: -1.689 ± 0.499 $\chi^2/\text{NDF}: 853.6/53$

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: -221.554 ± 1.318 χ^2/NDF : 900.8/9

Right Out: -219.053 ± 1.176 χ^2/NDF : 3049.3/18

Left In: -247.425 ± 1.468 χ^2/NDF : 41.1/8

Left: -233.103 ± 0.981 χ^2/NDF : 1114.0/18

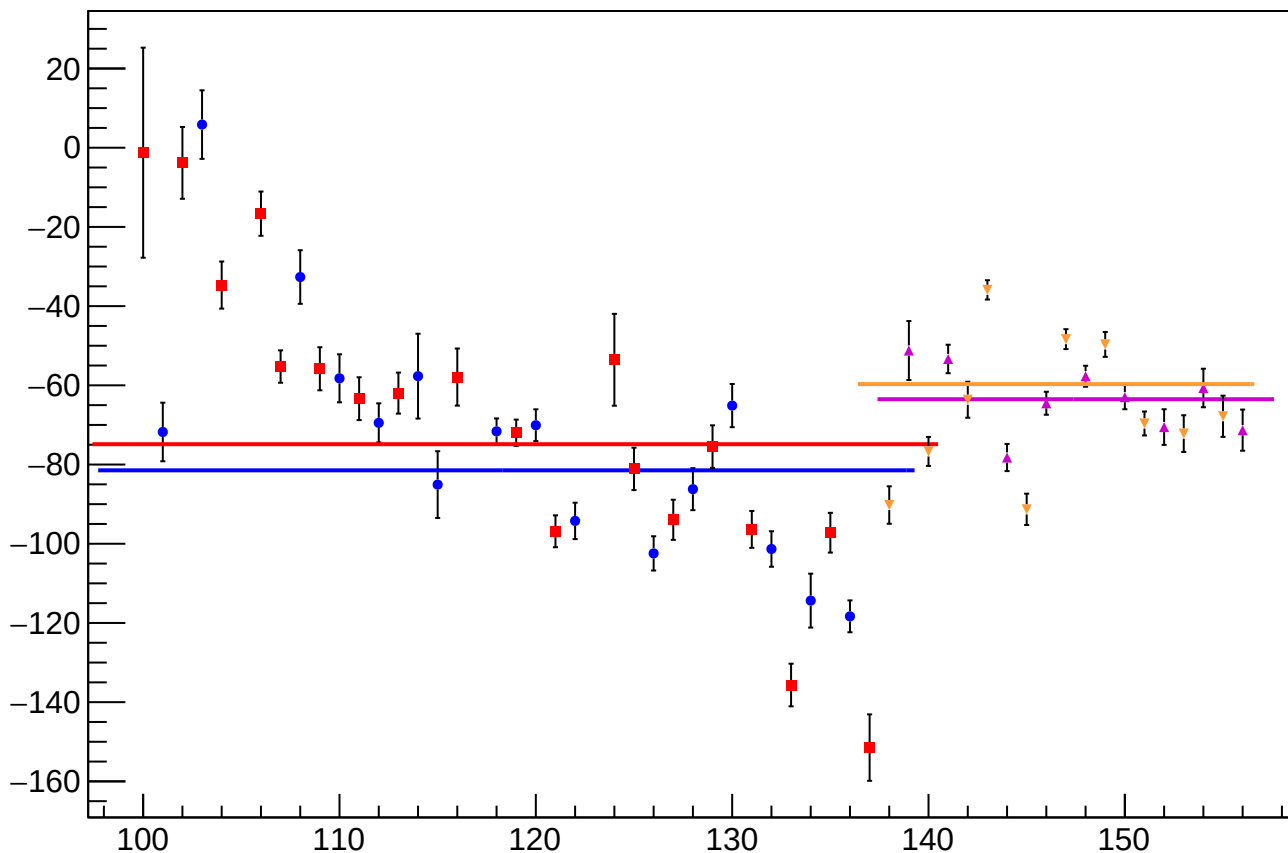
Right: -228.679 ± 0.855 χ^2/NDF : 4353.5/34

In: -242.799 ± 0.950 χ^2/NDF : 1220.4/24

Out: -220.162 ± 0.878 χ^2/NDF : 3952.1/28

All: -230.590 ± 0.644 χ^2/NDF : 5479.1/53

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: -59.688 ± 1.083 $\chi^2/\text{NDF}: 274.4/9$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -63.509 ± 1.215 $\chi^2/\text{NDF}: 39.1/8$

Left: -61.380 ± 0.808 $\chi^2/\text{NDF}: 319.1/18$

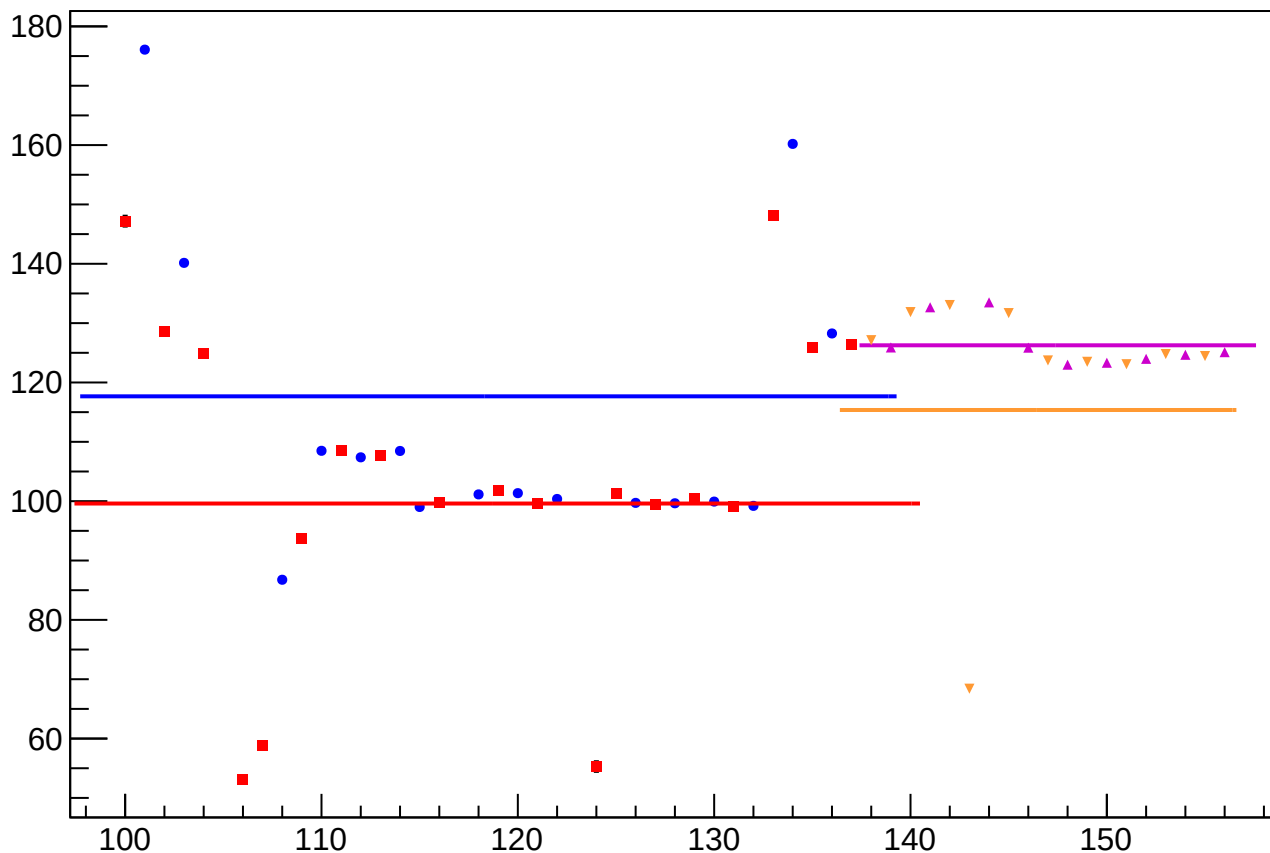
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -71.967 ± 0.883 $\chi^2/\text{NDF}: 508.5/24$

Out: -66.311 ± 0.813 $\chi^2/\text{NDF}: 936.8/28$

All: -68.904 ± 0.598 $\chi^2/\text{NDF}: 1467.5/53$

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: 115.364 $\pm$ 0.054 χ^2 /NDF: 189093.5/9

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 126.265 $\pm$ 0.058 χ^2 /NDF: 4019.1/8

Left: 120.441 $\pm$ 0.039 χ^2 /NDF: 212312.9/18

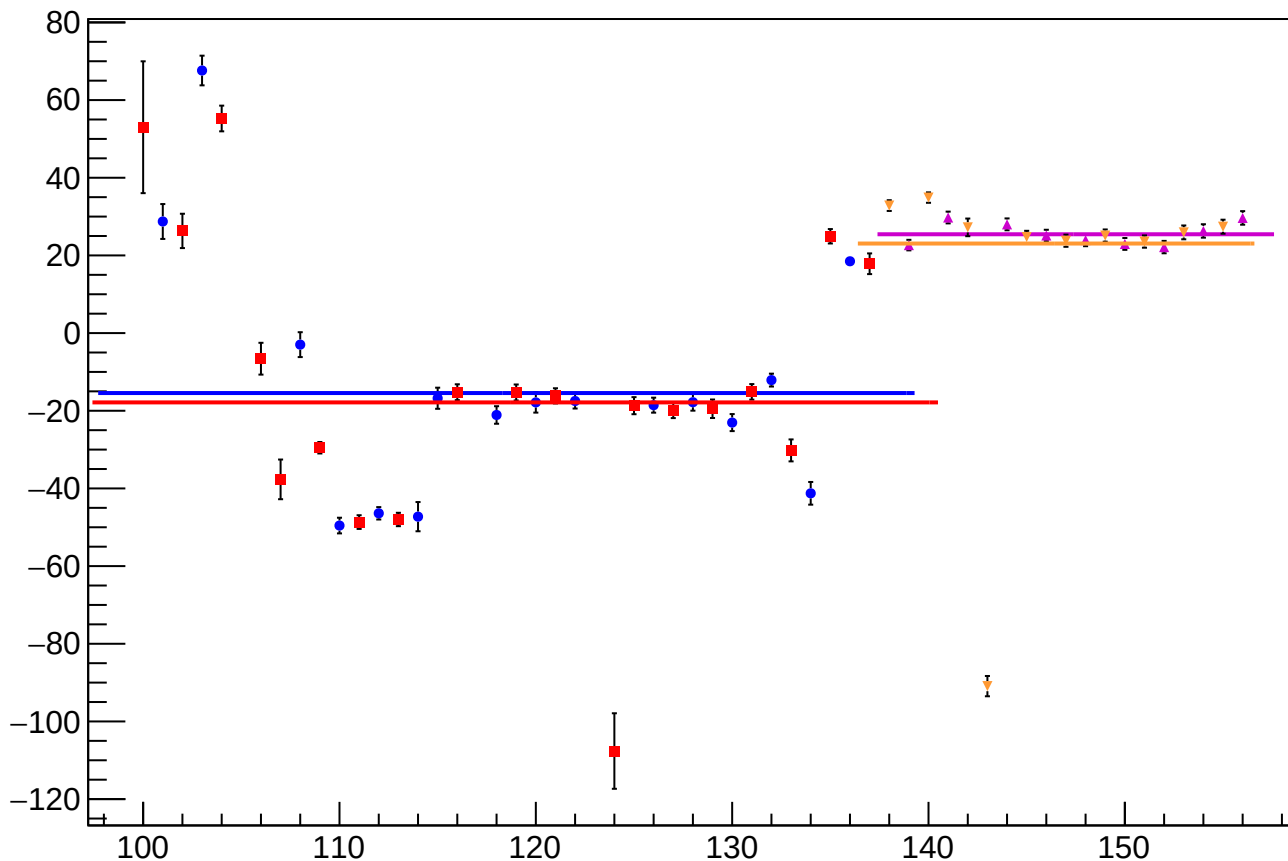
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 123.250 $\pm$ 0.046 χ^2 /NDF: 107257.7/24

Out: 109.558 $\pm$ 0.043 χ^2 /NDF: 387066.6/28

All: 115.840 $\pm$ 0.031 χ^2 /NDF: 541566.0/53

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 ± 0.539 χ^2/NDF : 2124.2/15

Left Out: 23.060 ± 0.524 χ^2/NDF : 2045.7/9

Right Out: -17.848 ± 0.530 χ^2/NDF : 2125.2/18

Left In: 25.448 ± 0.516 χ^2/NDF : 29.1/8

Left: 24.273 ± 0.368 χ^2/NDF : 2085.3/18

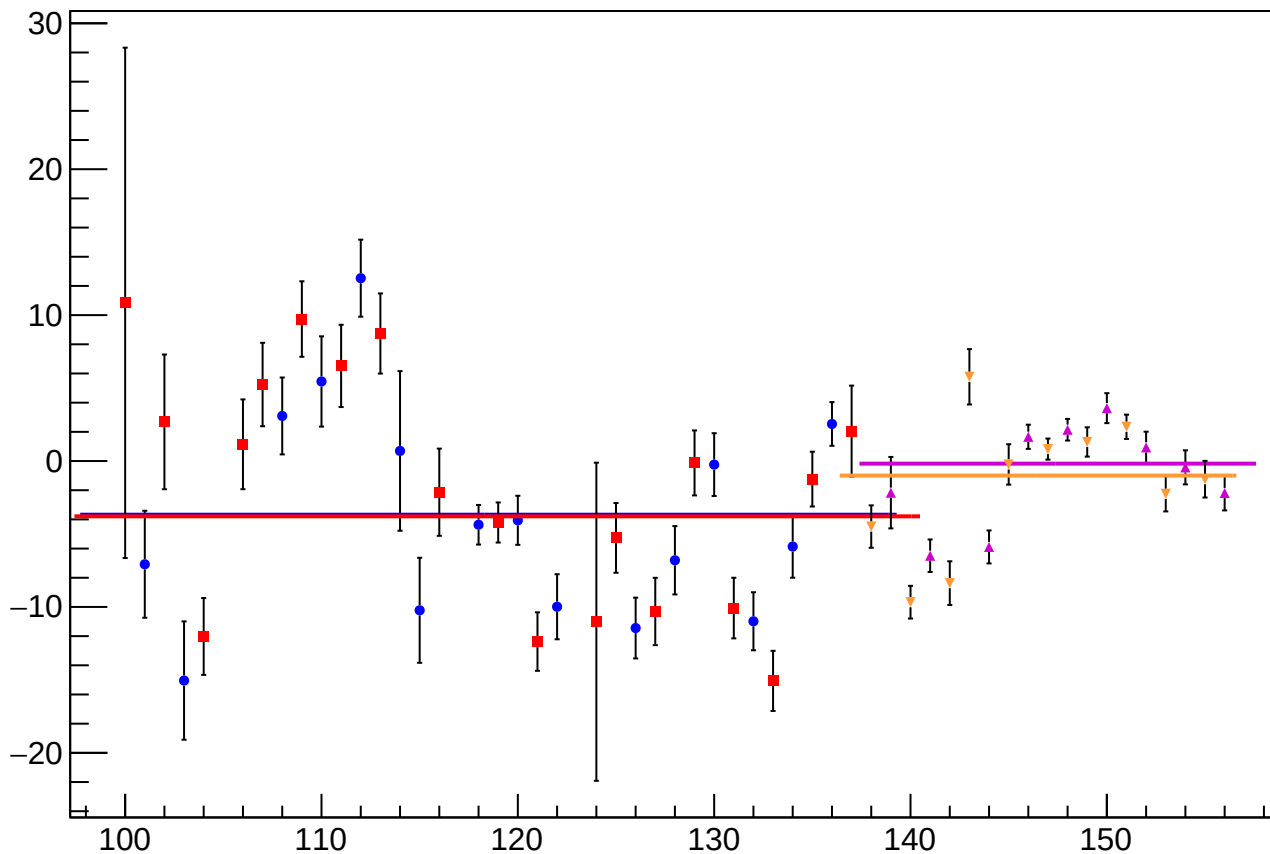
Right: -16.664 ± 0.378 χ^2/NDF : 4259.6/34

In: 5.907 ± 0.373 χ^2/NDF : 5156.7/24

Out: 2.824 ± 0.373 χ^2/NDF : 7185.6/28

All: 4.365 ± 0.263 χ^2/NDF : 12376.5/53

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: -0.996 ± 0.349 χ^2/NDF : 131.8/9

Right Out: -3.790 ± 0.564 χ^2/NDF : 161.2/18

Left In: -0.179 ± 0.347 χ^2/NDF : 90.7/8

Left: -0.585 ± 0.246 χ^2/NDF : 225.3/18

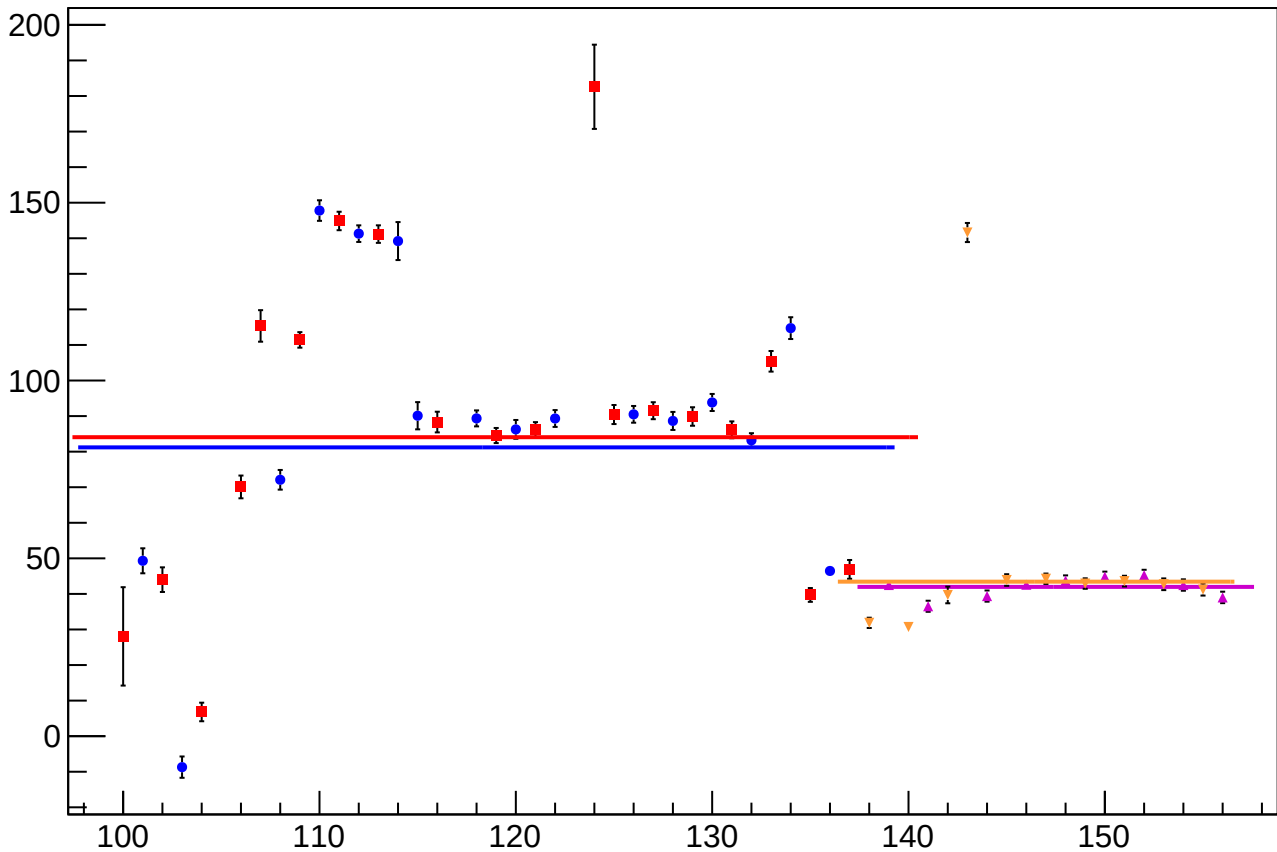
Right: -3.734 ± 0.394 χ^2/NDF : 285.2/34

In: -1.172 ± 0.294 χ^2/NDF : 243.5/24

Out: -1.771 ± 0.297 χ^2/NDF : 310.8/28

All: -1.469 ± 0.209 χ^2/NDF : 556.4/53

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203 $\pm$ 0.607 χ^2 /NDF: 3230.5/15

Left Out: 43.445 $\pm$ 0.513 χ^2 /NDF:1489.6/9

Right Out: 84.065 $\pm$ 0.616 χ^2 /NDF: 3206.5/18

Left In: 41.973 $\pm$ 0.501 χ^2 /NDF:28.9/8

Left: 42.691 $\pm$ 0.359 χ^2 /NDF: 1522.7/18

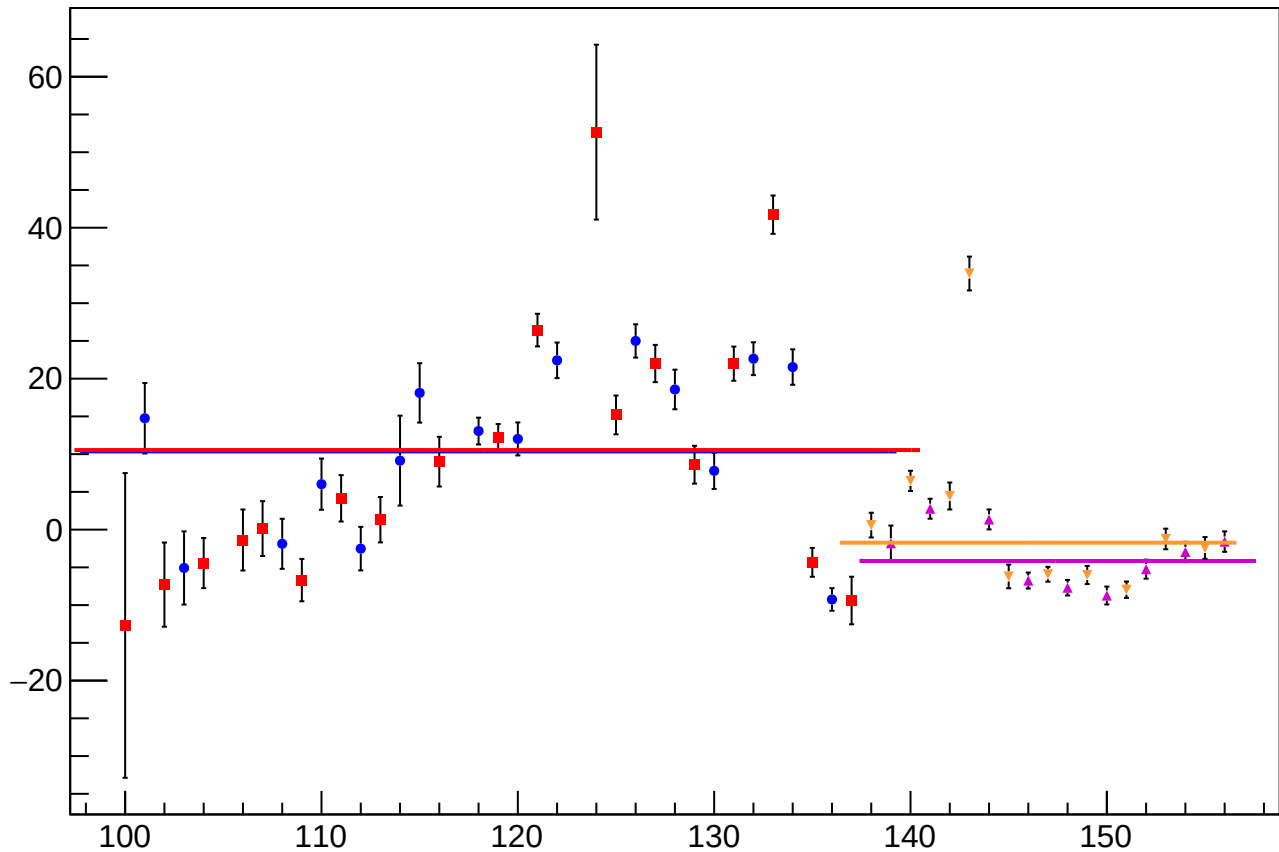
Right: 82.612 $\pm$ 0.432 χ^2 /NDF: 6447.9/34

In: 57.873 $\pm$ 0.386 χ^2 /NDF:5742.9/24

Out: 60.086 $\pm$ 0.394 χ^2 /NDF:7260.8/28

All: 58.957 $\pm$ 0.276 χ^2 /NDF: 13019.7/53

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: -1.728 $\pm$ 0.429 χ^2 /NDF: 376.7/9

Right Out: 10.539 $\pm$ 0.640 χ^2 /NDF: 470.7/18

Left In: -4.152 $\pm$ 0.423 χ^2 /NDF: 83.6/8

Left: -2.958 $\pm$ 0.301 χ^2 /NDF: 476.5/18

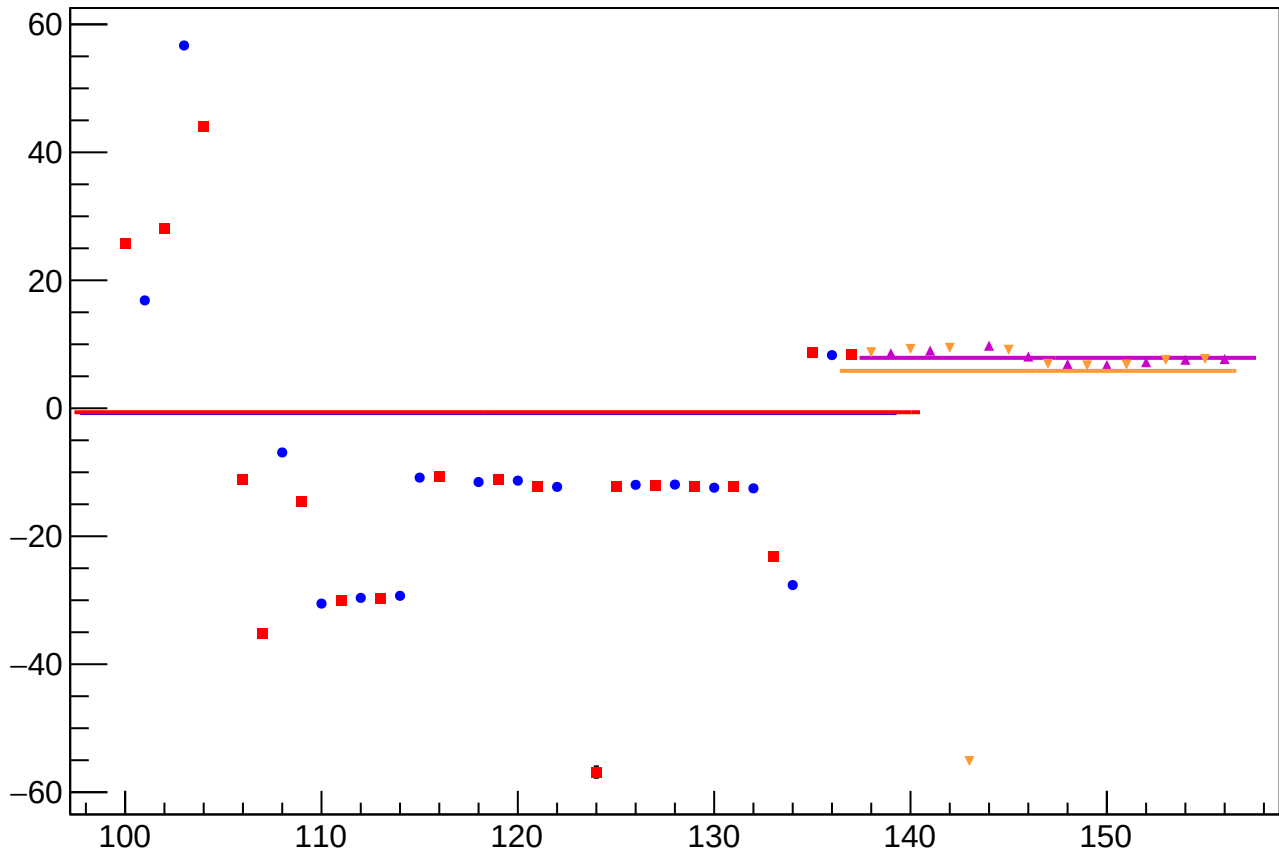
Right: 10.451 $\pm$ 0.448 χ^2 /NDF: 830.5/34

In: 0.388 $\pm$ 0.350 χ^2 /NDF: 812.5/24

Out: 2.073 $\pm$ 0.356 χ^2 /NDF: 1100.8/28

All: 1.216 $\pm$ 0.250 χ^2 /NDF: 1924.6/53

reg_asym_atl_dd_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.036 χ^2/NDF : 367993.9/15

Left Out: 5.850 ± 0.020 χ^2/NDF : 310314.9/9

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 7.883 ± 0.019 χ^2/NDF : 2104.6/8

Left: 6.930 ± 0.014 χ^2/NDF : 317752.7/18

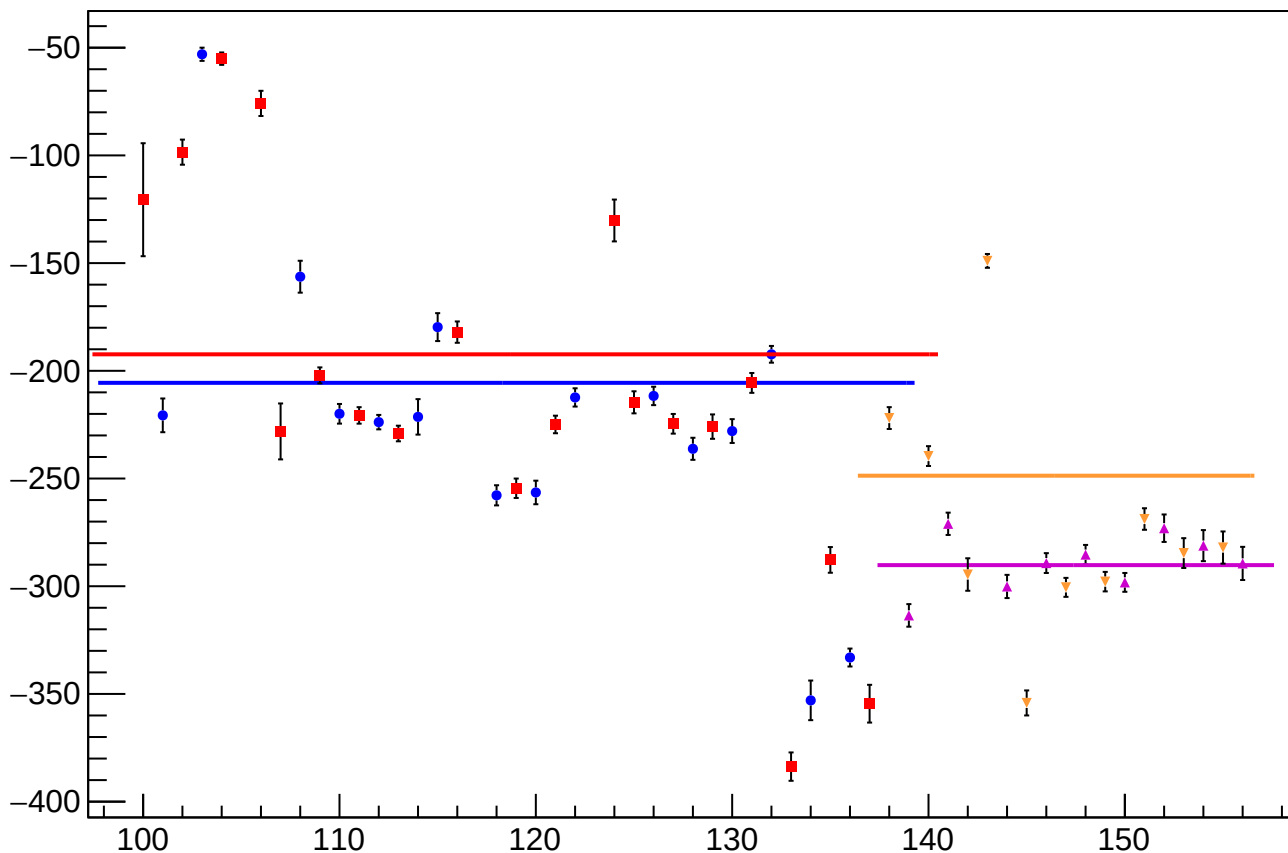
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 5.984 ± 0.017 χ^2/NDF : 415195.7/24

Out: 4.375 ± 0.018 χ^2/NDF : 649983.6/28

All: 5.225 ± 0.012 χ^2/NDF : 1069482.0/53

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: -248.686+/-1.562 χ^2/NDF :1684.7/9

Right Out: -192.345+/-1.123 χ^2/NDF : 4969.8/18

Left In: -290.203+/-1.774 χ^2/NDF :50.3/8

Left: -266.817+/-1.173 χ^2/NDF : 2043.4/18

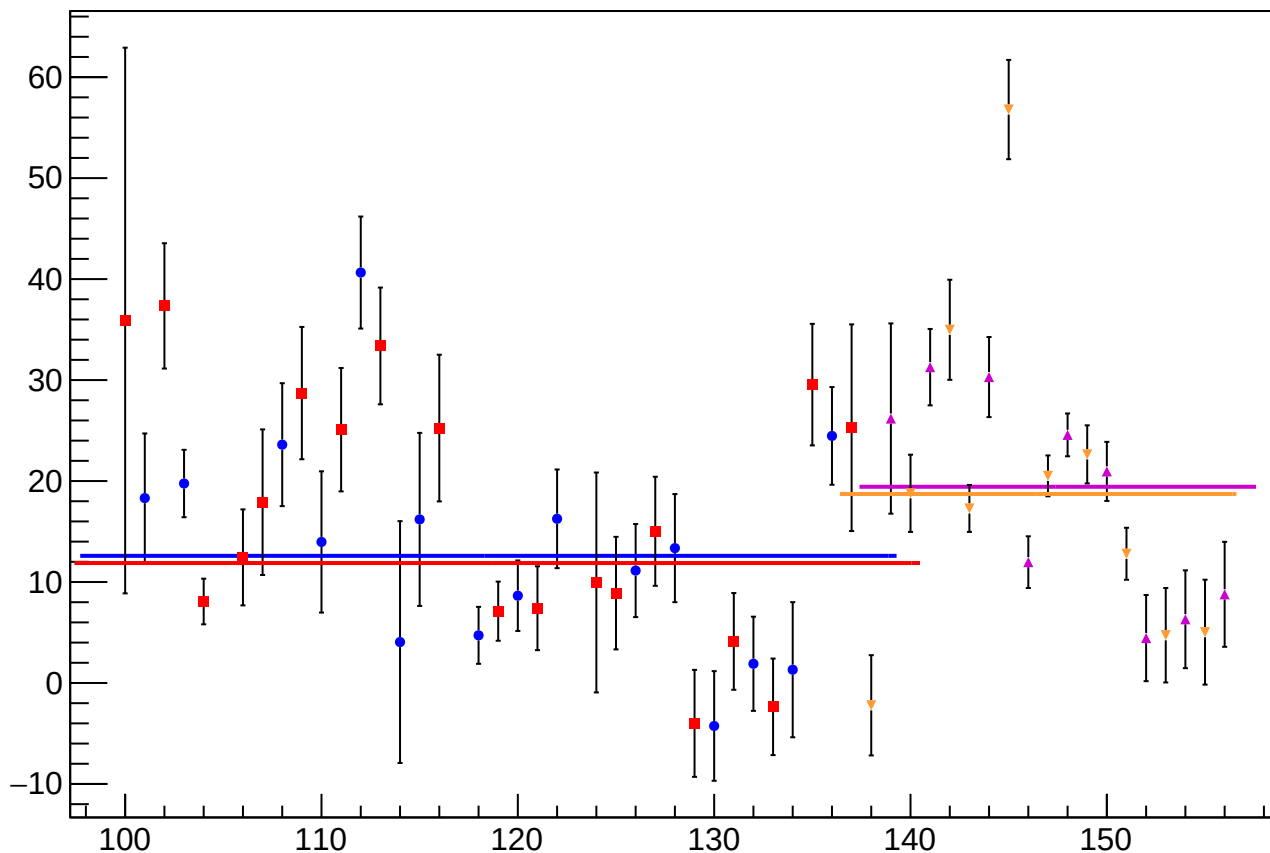
Right: -198.605+/-0.815 χ^2/NDF : 9091.6/34

In: -231.673+/-0.985 χ^2/NDF :5679.7/24

Out: -211.527+/-0.912 χ^2/NDF :7512.2/28

All: -220.819+/-0.669 χ^2/NDF : 13417.2/53

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.592 ± 1.203 $\chi^2/\text{NDF}: 68.5/15$

Left Out: 18.719 ± 1.013 $\chi^2/\text{NDF}: 112.7/9$

Right Out: 11.880 ± 1.122 $\chi^2/\text{NDF}: 84.9/18$

Left In: 19.433 ± 1.139 $\chi^2/\text{NDF}: 56.3/8$

Left: 19.034 ± 0.757 $\chi^2/\text{NDF}: 169.2/18$

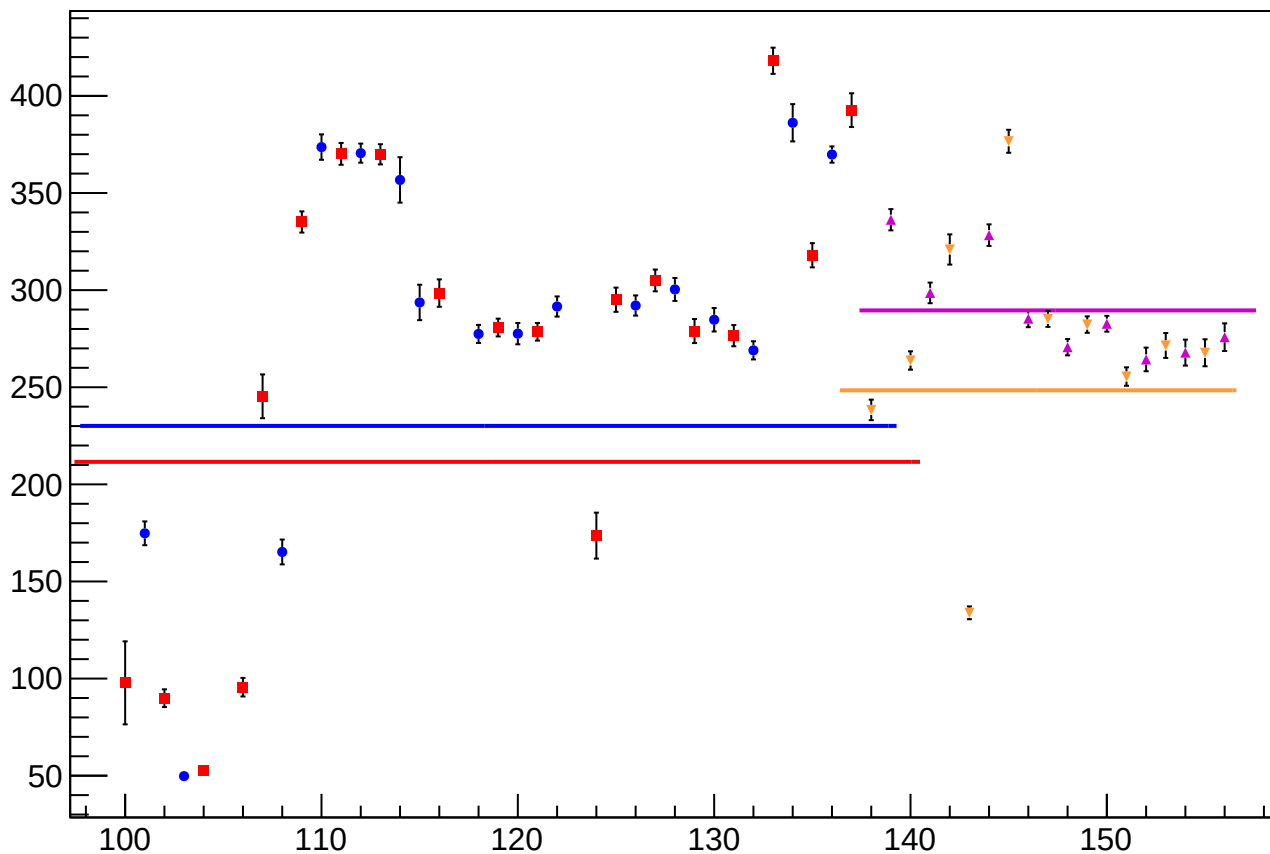
Right: 12.211 ± 0.820 $\chi^2/\text{NDF}: 153.6/34$

In: 16.200 ± 0.827 $\chi^2/\text{NDF}: 141.9/24$

Out: 15.647 ± 0.752 $\chi^2/\text{NDF}: 218.1/28$

All: 15.897 ± 0.556 $\chi^2/\text{NDF}: 360.2/53$

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: 248.419 $\pm$ 1.539 χ^2 /NDF:1942.9/9

Right Out: 211.588 $\pm$ 1.195 χ^2 /NDF: 11472.1/18

Left In: 289.571 $\pm$ 1.719 χ^2 /NDF:180.1/8

Left: 266.736 $\pm$ 1.147 χ^2 /NDF: 2441.0/18

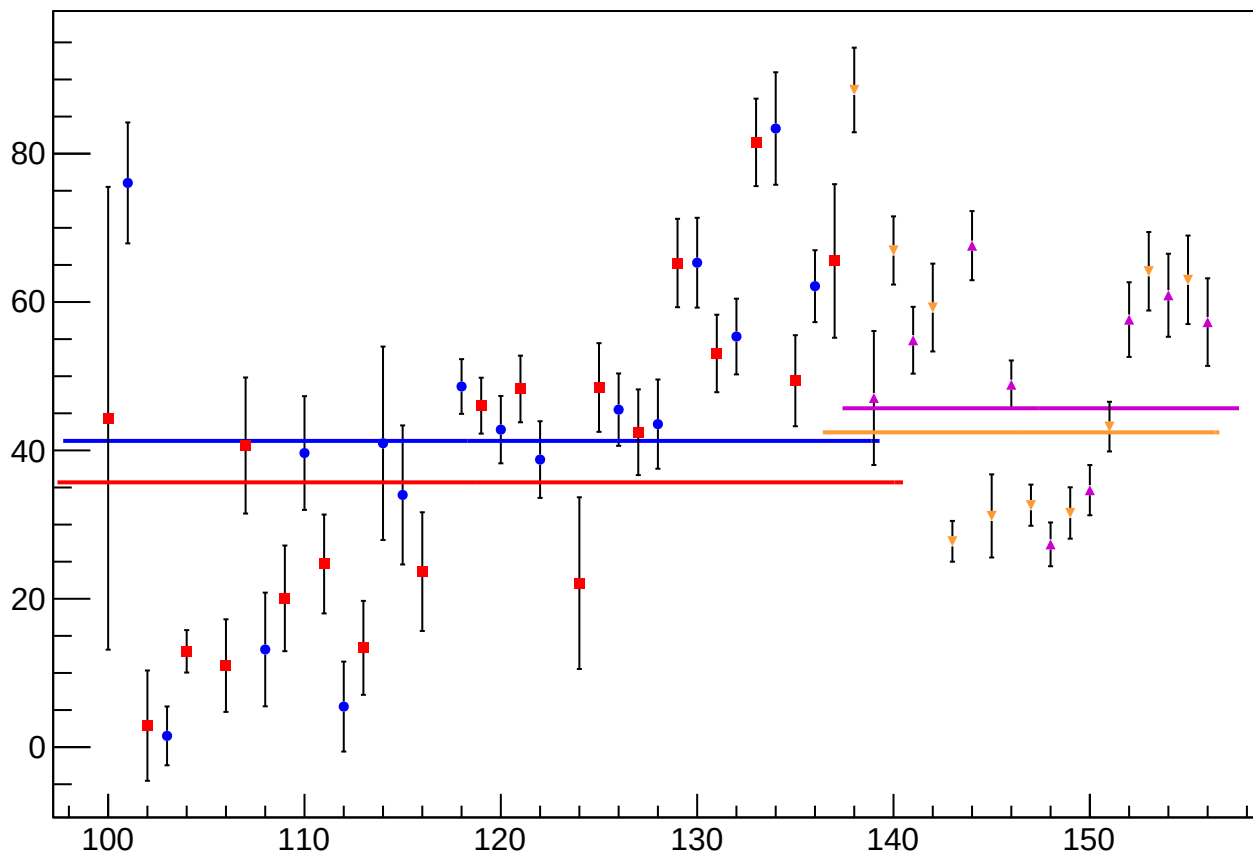
Right: 220.357 $\pm$ 0.867 χ^2 /NDF: 20961.4/34

In: 250.876 $\pm$ 1.016 χ^2 /NDF:10334.7/24

Out: 225.441 $\pm$ 0.944 χ^2 /NDF:13772.1/28

All: 237.227 $\pm$ 0.692 χ^2 /NDF: 24443.2/53

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: 42.433 $\pm$ 1.253 χ^2 /NDF:185.7/9

Right Out: 35.692 $\pm$ 1.317 χ^2 /NDF: 253.2/18

Left In: 45.679 $\pm$ 1.409 χ^2 /NDF:93.5/8

Left: 43.866 $\pm$ 0.936 χ^2 /NDF: 282.1/18

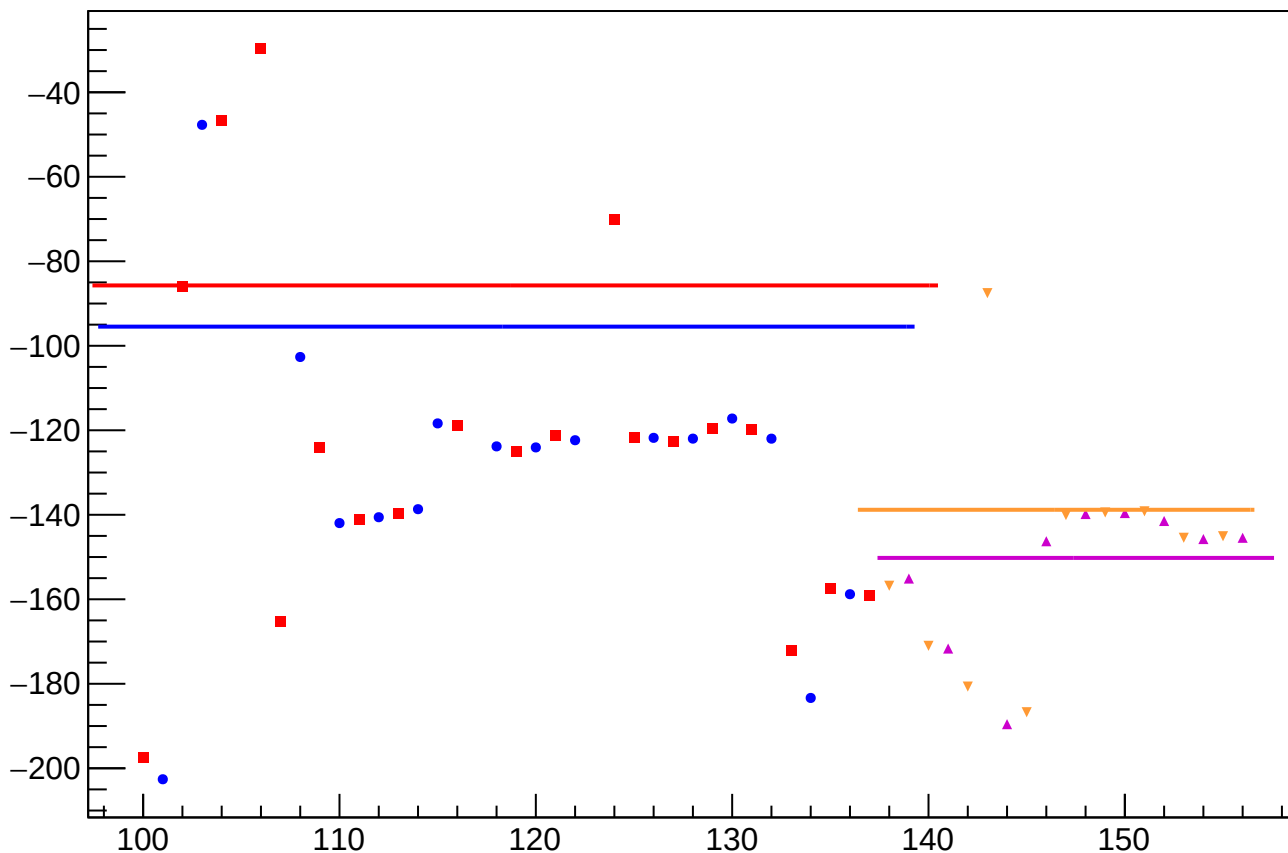
Right: 38.321 $\pm$ 0.958 χ^2 /NDF: 507.4/34

In: 43.462 $\pm$ 0.992 χ^2 /NDF:344.1/24

Out: 39.230 $\pm$ 0.908 χ^2 /NDF:452.7/28

All: 41.158 $\pm$ 0.670 χ^2 /NDF: 806.7/53

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -95.468+/-0.069 χ^2/NDF : 519953.8/15

Left Out: -138.817+/-0.063 χ^2/NDF : 230191.9/9

Right Out: -85.716+/-0.067 χ^2/NDF : 482604.9/18

Left In: -150.207+/-0.067 χ^2/NDF : 46027.5/8

Left: -144.129+/-0.046 χ^2/NDF : 291593.1/18

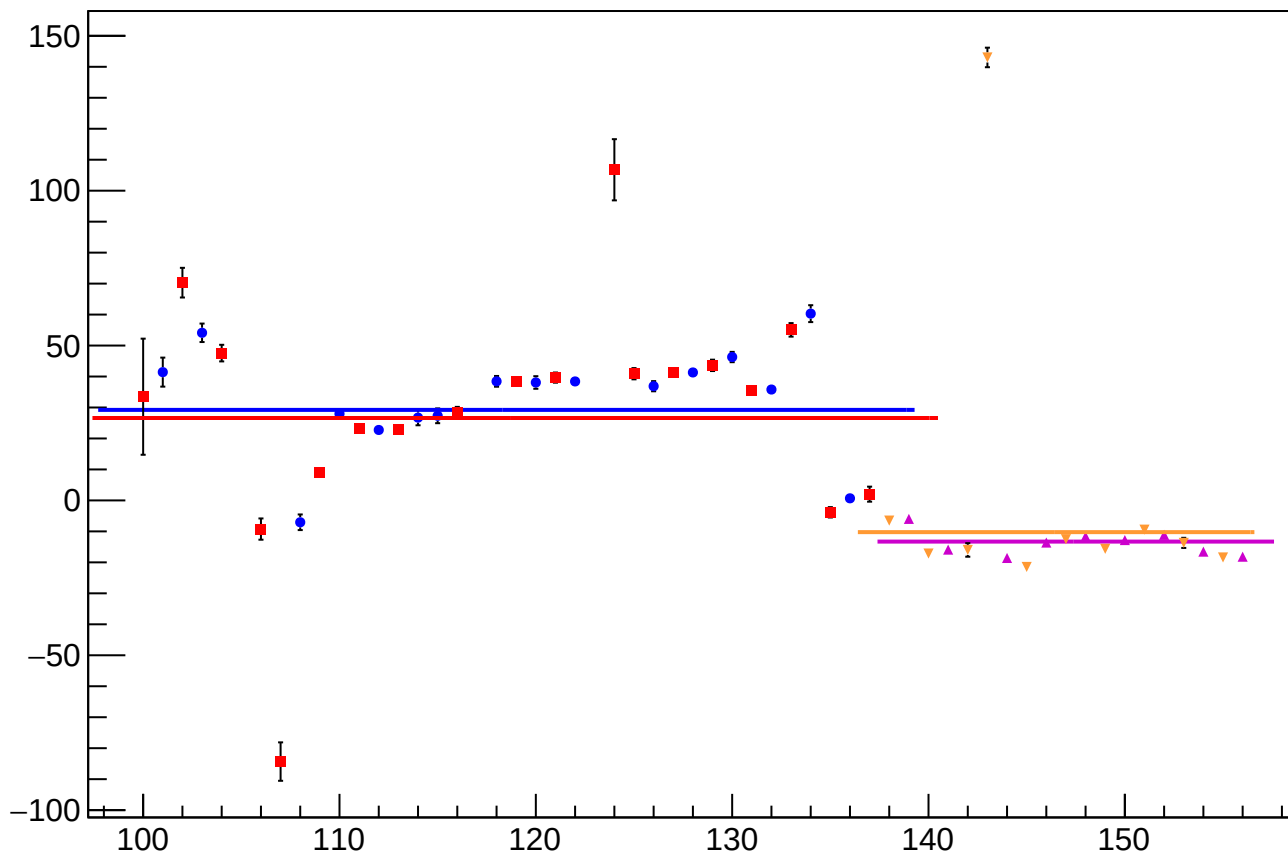
Right: -90.413+/-0.048 χ^2/NDF : 1012777.7/34

In: -123.776+/-0.048 χ^2/NDF : 887231.6/24

Out: -113.993+/-0.046 χ^2/NDF : 1047791.1/28

All: -118.626+/-0.033 χ^2/NDF : 1956655.4/53

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: -10.240+/-0.490 χ^2/NDF : 2503.0/9

Right Out: 26.609+/-0.414 χ^2/NDF : 1920.6/18

Left In: -13.297+/-0.479 χ^2/NDF : 68.7/8

Left: -11.803+/-0.342 χ^2/NDF : 2591.5/18

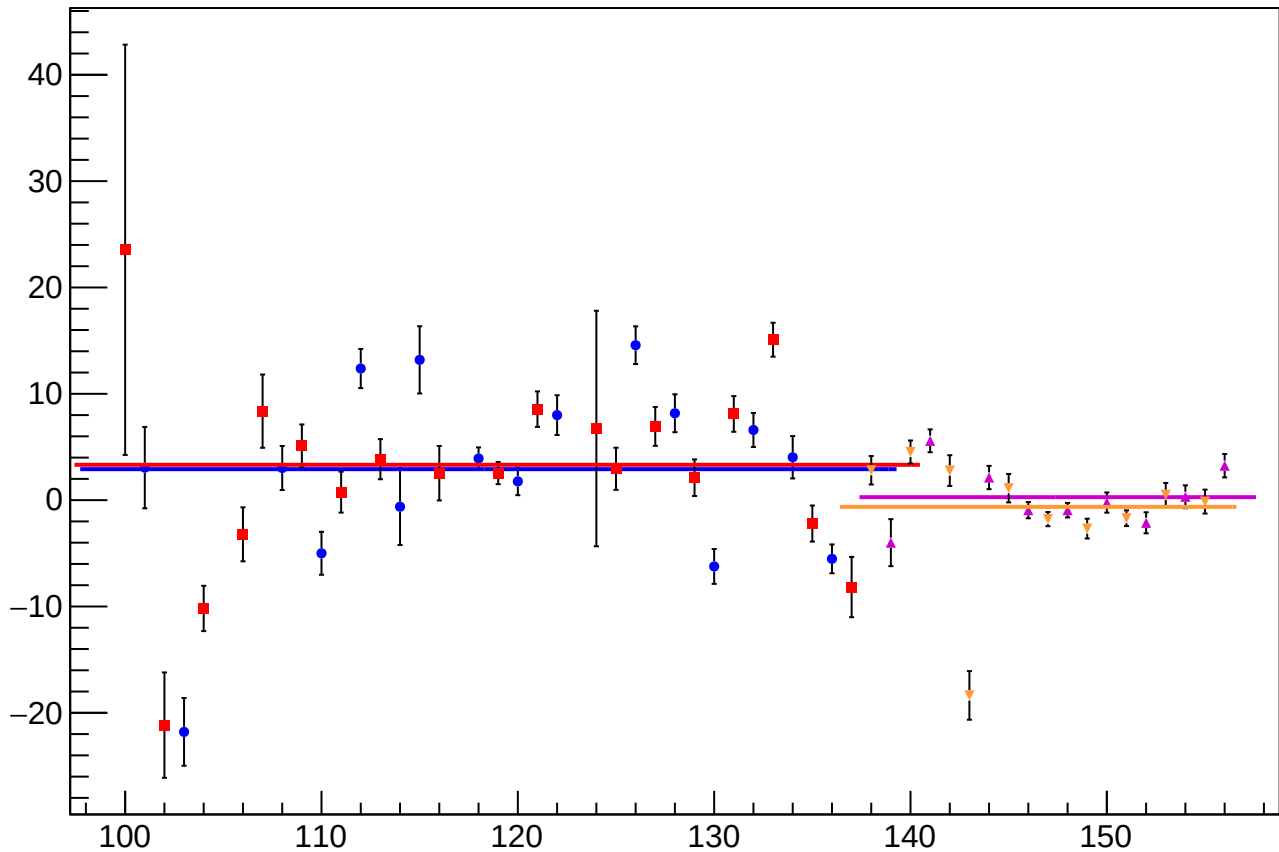
Right: 27.887+/-0.296 χ^2/NDF : 3283.1/34

In: 10.528+/-0.318 χ^2/NDF : 5829.4/24

Out: 11.248+/-0.316 χ^2/NDF : 7724.8/28

All: 10.890+/-0.224 χ^2/NDF : 13556.7/53

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 $\chi^2/\text{NDF}: 250.0/15$

Left Out: -0.632 ± 0.325 $\chi^2/\text{NDF}: 108.0/9$

Right Out: 3.326 ± 0.454 $\chi^2/\text{NDF}: 181.8/18$

Left In: 0.278 ± 0.323 $\chi^2/\text{NDF}: 50.2/8$

Left: -0.174 ± 0.229 $\chi^2/\text{NDF}: 162.1/18$

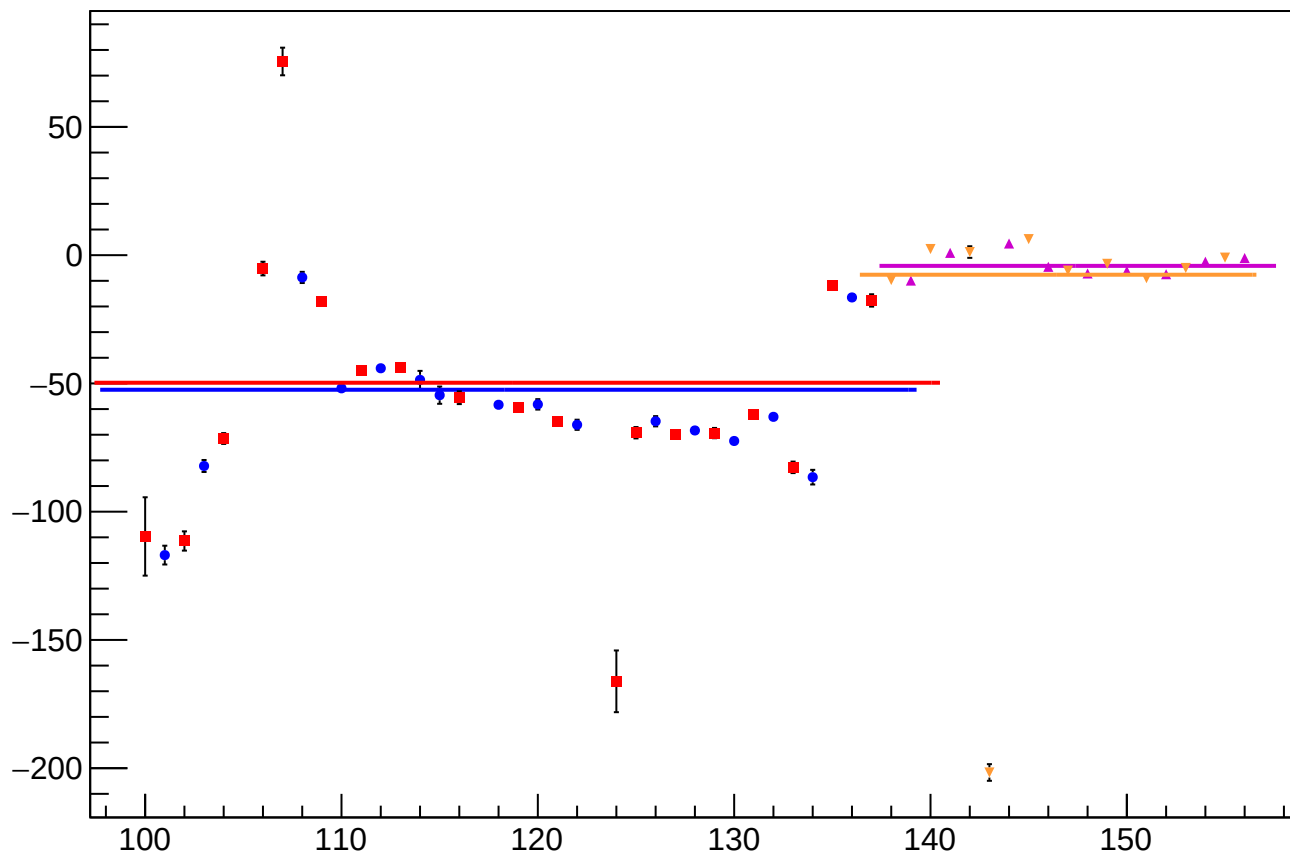
Right: 3.114 ± 0.317 $\chi^2/\text{NDF}: 432.2/34$

In: 1.194 ± 0.261 $\chi^2/\text{NDF}: 323.3/24$

Out: 0.710 ± 0.264 $\chi^2/\text{NDF}: 340.1/28$

All: 0.955 ± 0.186 $\chi^2/\text{NDF}: 665.0/53$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.467 ± 0.488 $\chi^2/\text{NDF}: 2330.2/15$

Left Out: -7.626 ± 0.479 $\chi^2/\text{NDF}: 3764.1/9$

Right Out: -49.734 ± 0.494 $\chi^2/\text{NDF}: 3009.7/18$

Left In: -4.169 ± 0.465 $\chi^2/\text{NDF}: 82.3/8$

Left: -5.847 ± 0.334 $\chi^2/\text{NDF}: 3873.3/18$

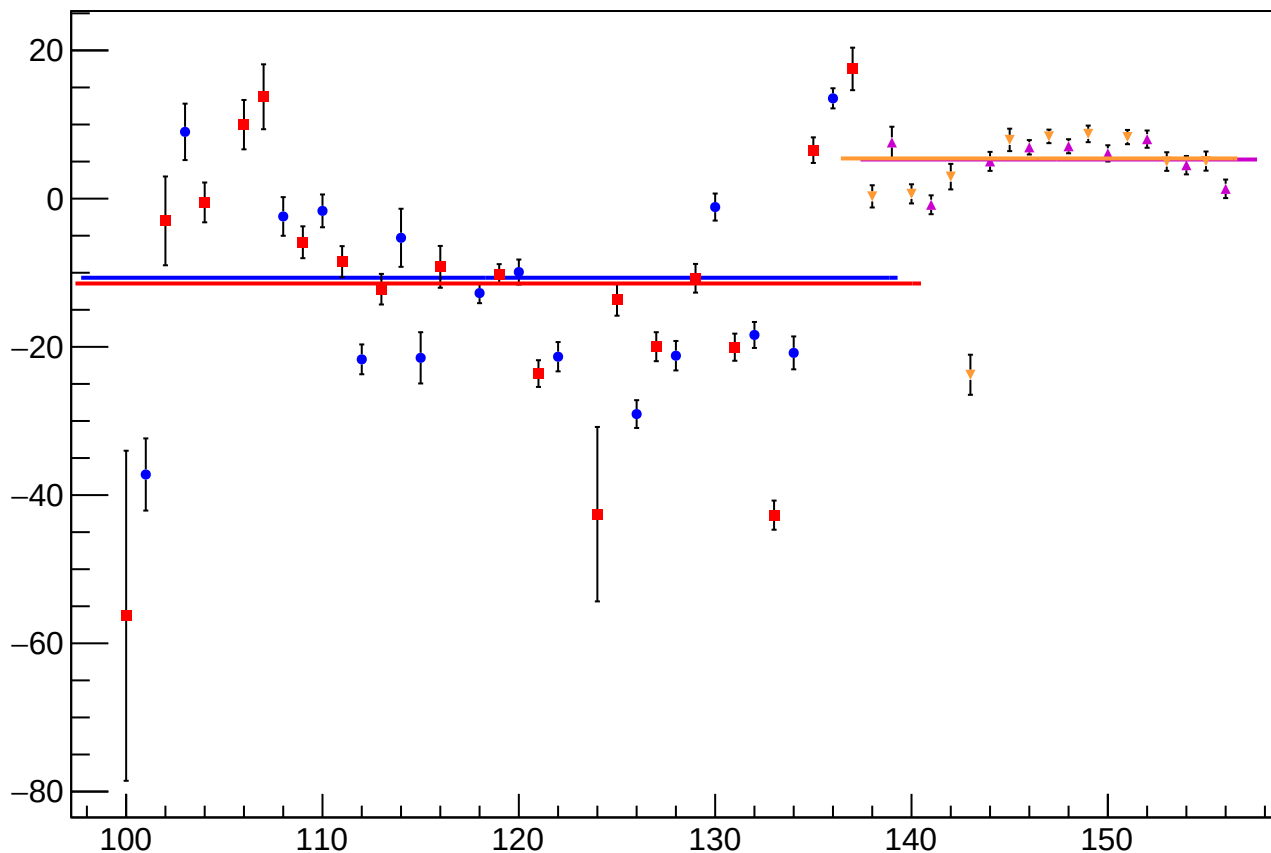
Right: -51.118 ± 0.347 $\chi^2/\text{NDF}: 5355.4/34$

In: -27.167 ± 0.337 $\chi^2/\text{NDF}: 7548.3/24$

Out: -28.019 ± 0.344 $\chi^2/\text{NDF}: 10520.1/28$

All: -27.584 ± 0.241 $\chi^2/\text{NDF}: 18071.5/53$

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: 5.421 ± 0.399 χ^2/NDF : 175.1/9

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 5.279 ± 0.393 χ^2/NDF : 47.2/8

Left: 5.349 ± 0.280 χ^2/NDF : 222.3/18

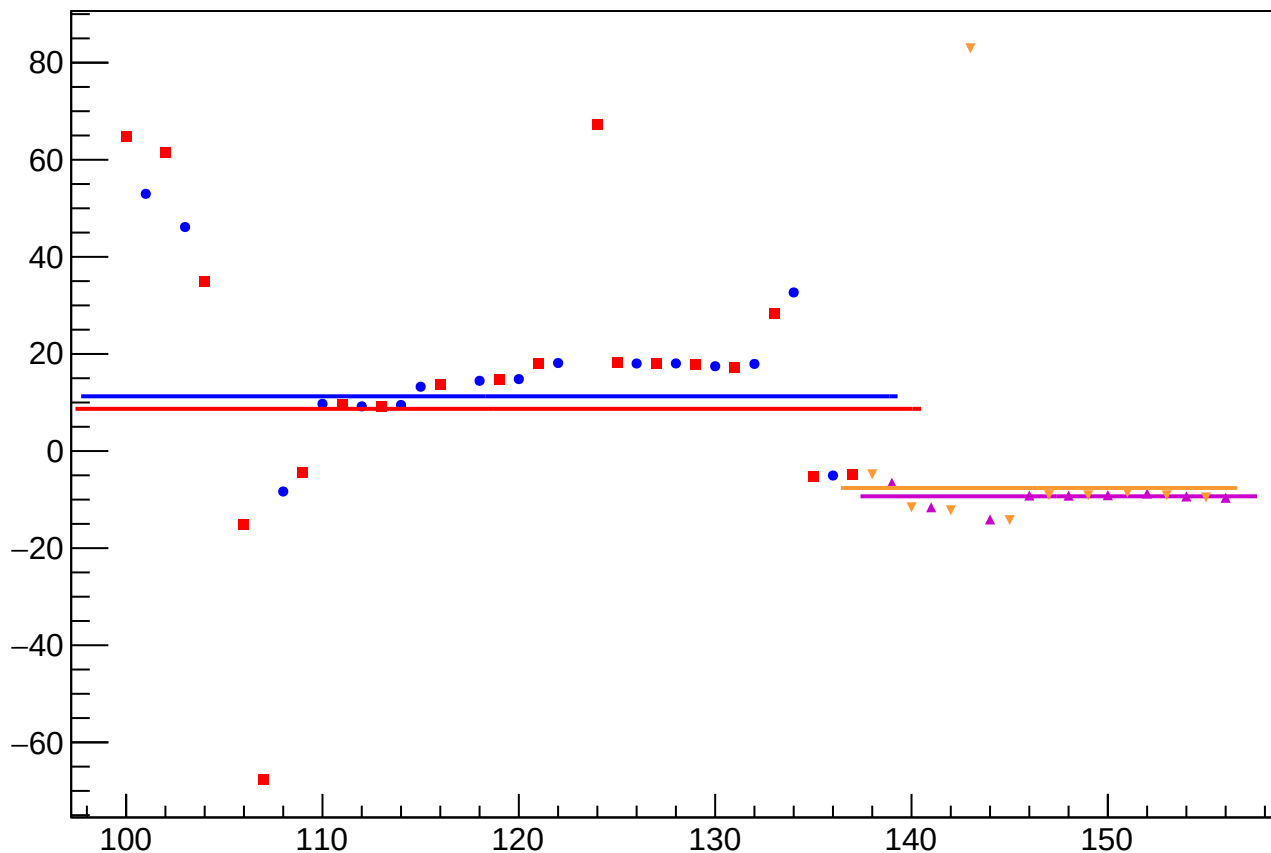
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: -0.732 ± 0.310 χ^2/NDF : 1334.4/24

Out: -0.900 ± 0.316 χ^2/NDF : 1509.2/28

All: -0.814 ± 0.221 χ^2/NDF : 2843.7/53

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: -7.603+/-0.019 χ^2/NDF : 474758.3/9

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -9.323+/-0.018 χ^2/NDF : 10247.7/8

Left: -8.519+/-0.013 χ^2/NDF : 489451.1/18

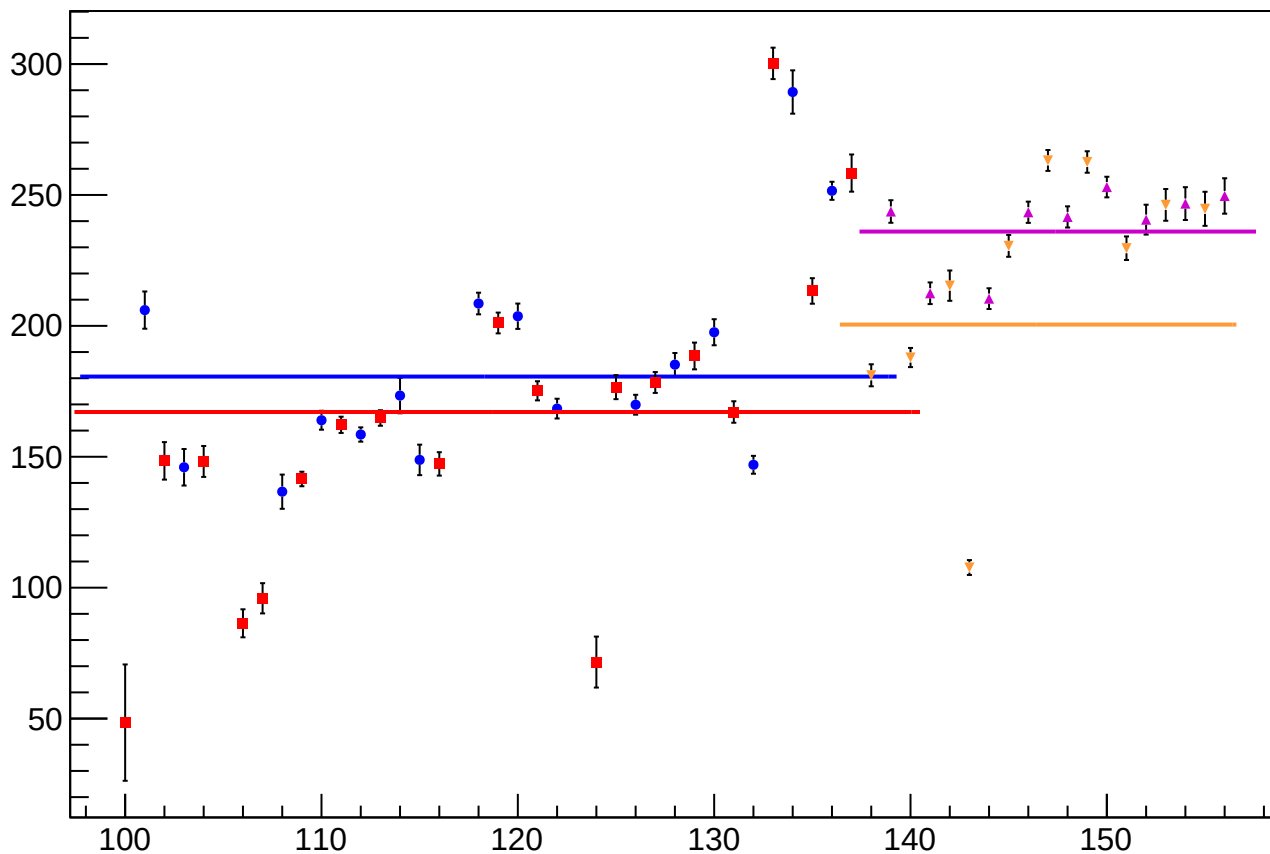
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: -4.009+/-0.015 χ^2/NDF : 711285.9/24

Out: -3.292+/-0.016 χ^2/NDF : 1108876.8/28

All: -3.672+/-0.011 χ^2/NDF : 1821205.0/53

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 $\pm$ 1.090 χ^2/NDF : 993.4/15

Left Out: 200.487 $\pm$ 1.331 χ^2/NDF : 1778.5/9

Right Out: 167.102 $\pm$ 1.021 χ^2/NDF : 1484.6/18

Left In: 236.014 $\pm$ 1.507 χ^2/NDF : 108.9/8

Left: 216.062 $\pm$ 0.998 χ^2/NDF : 2199.7/18

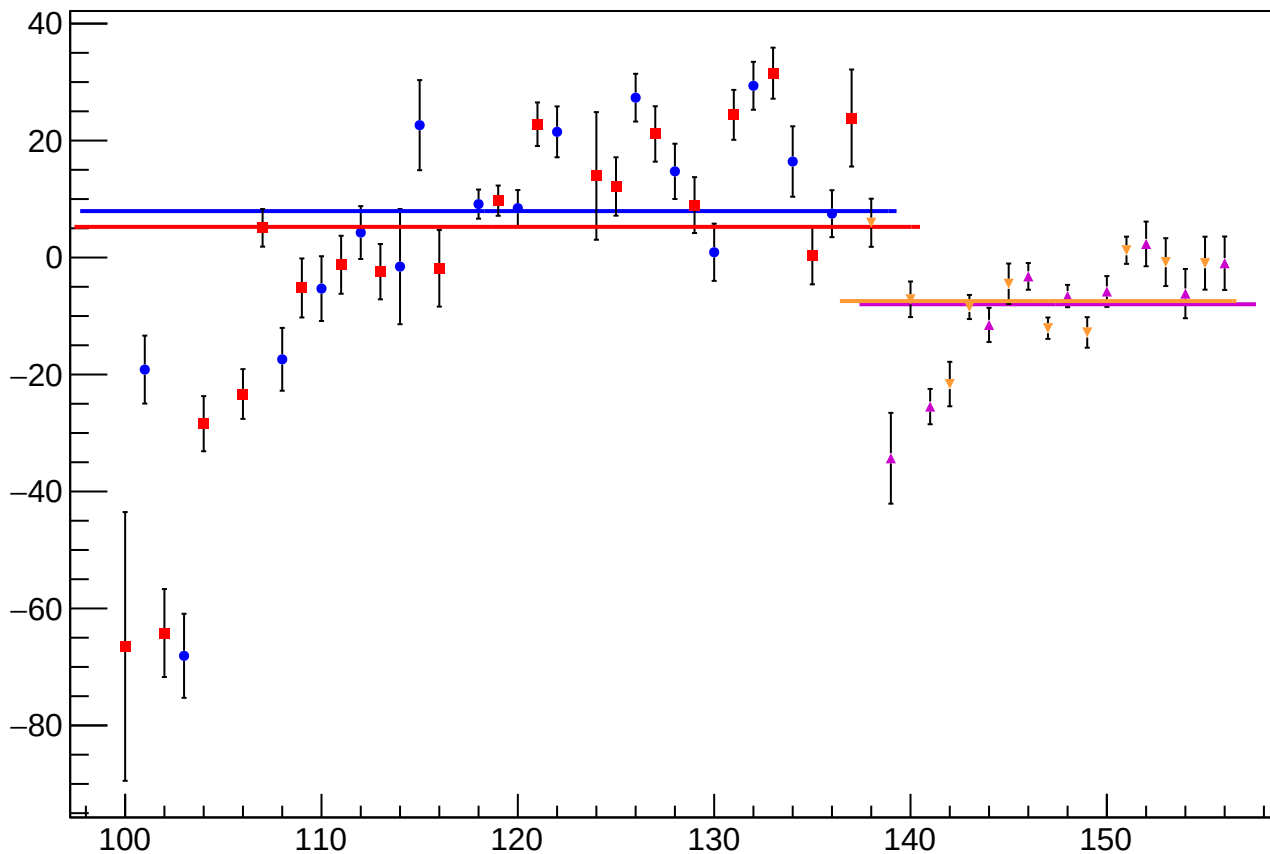
Right: 173.427 $\pm$ 0.745 χ^2/NDF : 2560.1/34

In: 199.652 $\pm$ 0.883 χ^2/NDF : 1989.4/24

Out: 179.463 $\pm$ 0.810 χ^2/NDF : 3659.1/28

All: 188.690 $\pm$ 0.597 χ^2/NDF : 5932.4/53

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: -7.441 ± 0.879 χ^2/NDF : 54.8/9

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -7.989 ± 0.986 χ^2/NDF : 61.9/8

Left: -7.684 ± 0.656 χ^2/NDF : 116.9/18

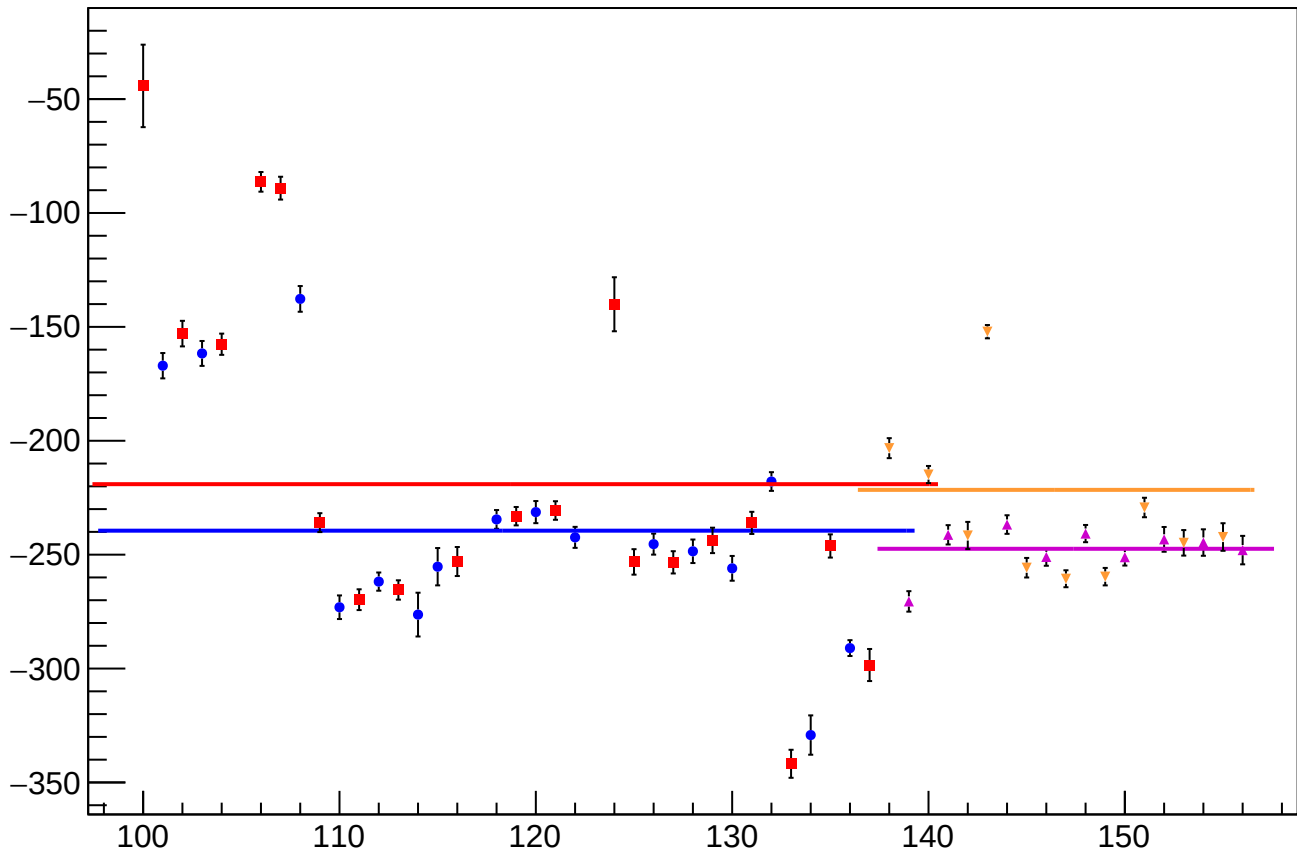
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: -0.983 ± 0.738 χ^2/NDF : 409.6/24

Out: -2.283 ± 0.677 χ^2/NDF : 442.4/28

All: -1.689 ± 0.499 χ^2/NDF : 853.6/53

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: -221.554 ± 1.318 χ^2/NDF : 900.8/9

Right Out: -219.053 ± 1.176 χ^2/NDF : 3049.3/18

Left In: -247.425 ± 1.468 χ^2/NDF : 41.1/8

Left: -233.103 ± 0.981 χ^2/NDF : 1114.0/18

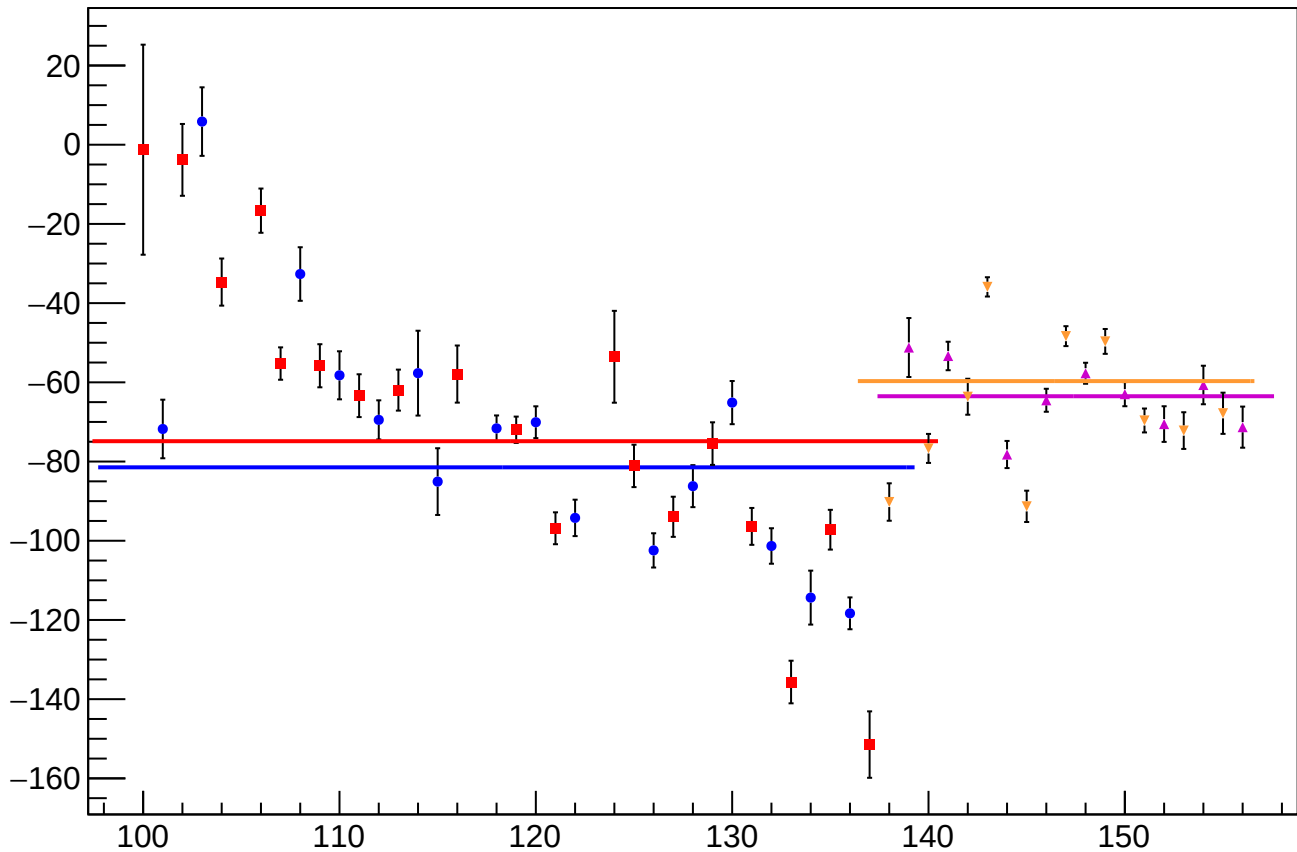
Right: -228.679 ± 0.855 χ^2/NDF : 4353.5/34

In: -242.799 ± 0.950 χ^2/NDF : 1220.4/24

Out: -220.162 ± 0.878 χ^2/NDF : 3952.1/28

All: -230.590 ± 0.644 χ^2/NDF : 5479.1/53

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: -59.688 ± 1.083 $\chi^2/\text{NDF}: 274.4/9$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -63.509 ± 1.215 $\chi^2/\text{NDF}: 39.1/8$

Left: -61.380 ± 0.808 $\chi^2/\text{NDF}: 319.1/18$

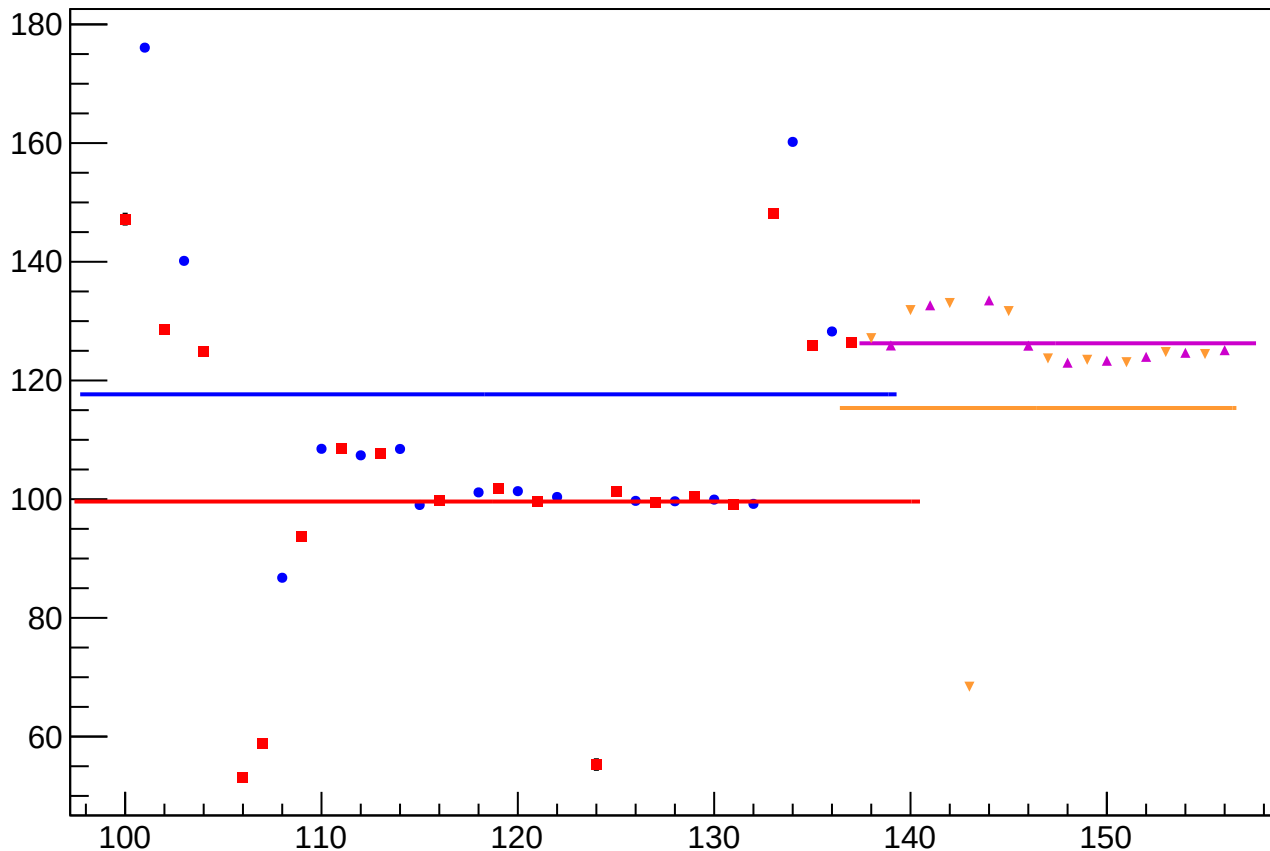
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -71.967 ± 0.883 $\chi^2/\text{NDF}: 508.5/24$

Out: -66.311 ± 0.813 $\chi^2/\text{NDF}: 936.8/28$

All: -68.904 ± 0.598 $\chi^2/\text{NDF}: 1467.5/53$

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: 115.364 $\pm$ 0.054 χ^2 /NDF: 189093.5/9

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 126.265 $\pm$ 0.058 χ^2 /NDF: 4019.1/8

Left: 120.441 $\pm$ 0.039 χ^2 /NDF: 212312.9/18

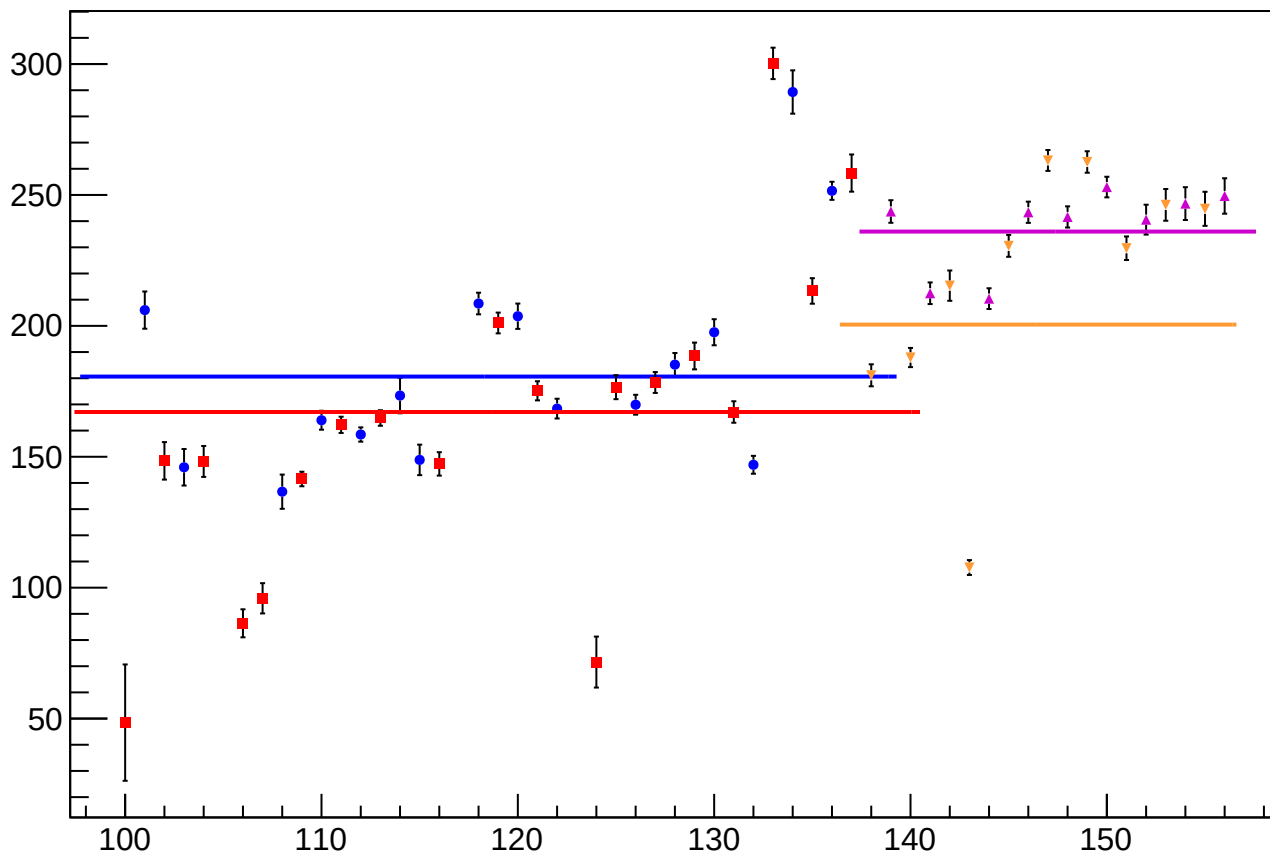
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 123.250 $\pm$ 0.046 χ^2 /NDF: 107257.7/24

Out: 109.558 $\pm$ 0.043 χ^2 /NDF: 387066.6/28

All: 115.840 $\pm$ 0.031 χ^2 /NDF: 541566.0/53

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 ± 1.090 χ^2/NDF : 993.4/15

Left Out: 200.487 ± 1.331 χ^2/NDF : 1778.5/9

Right Out: 167.102 ± 1.021 χ^2/NDF : 1484.6/18

Left In: 236.014 ± 1.507 χ^2/NDF : 108.9/8

Left: 216.062 ± 0.998 χ^2/NDF : 2199.7/18

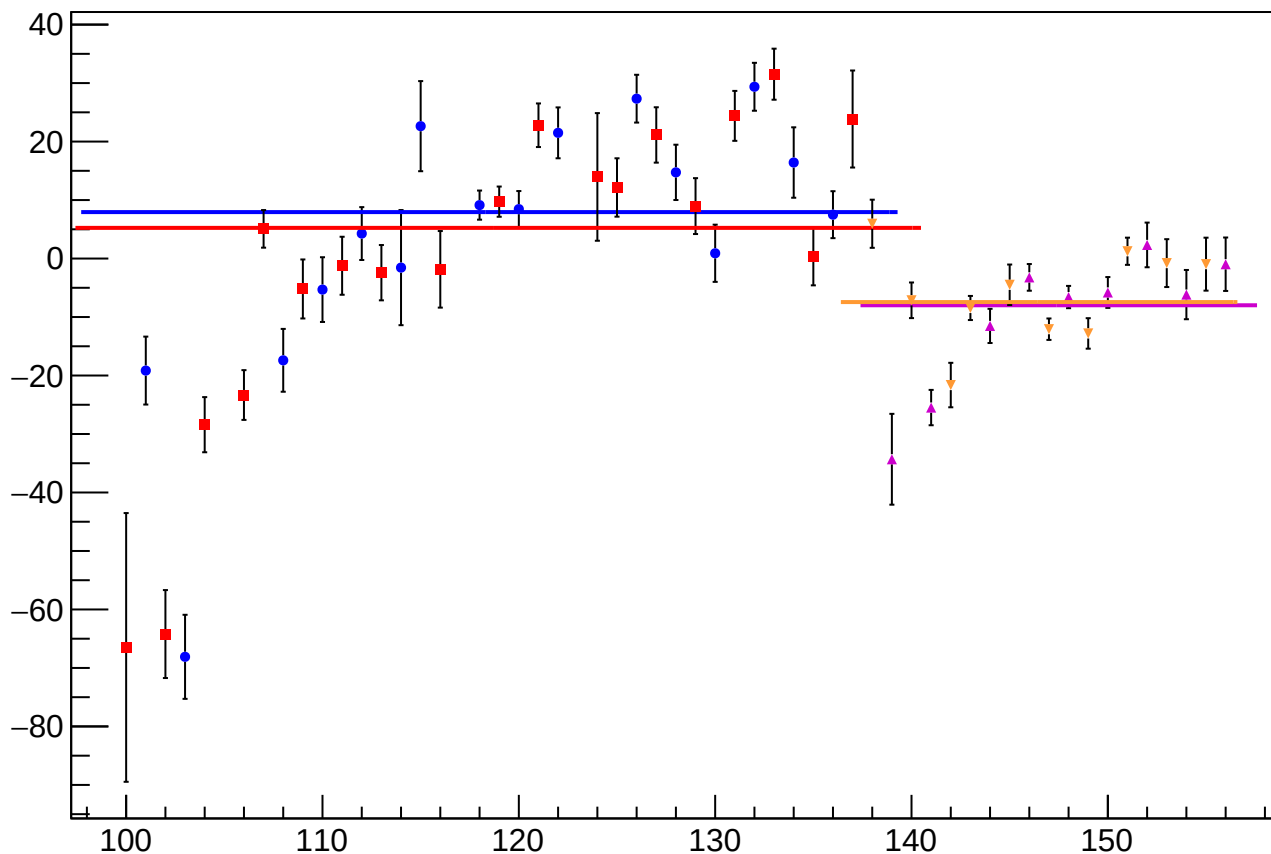
Right: 173.427 ± 0.745 χ^2/NDF : 2560.1/34

In: 199.652 ± 0.883 χ^2/NDF : 1989.4/24

Out: 179.463 ± 0.810 χ^2/NDF : 3659.1/28

All: 188.690 ± 0.597 χ^2/NDF : 5932.4/53

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: -7.441 ± 0.879 χ^2/NDF : 54.8/9

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -7.989 ± 0.986 χ^2/NDF : 61.9/8

Left: -7.684 ± 0.656 χ^2/NDF : 116.9/18

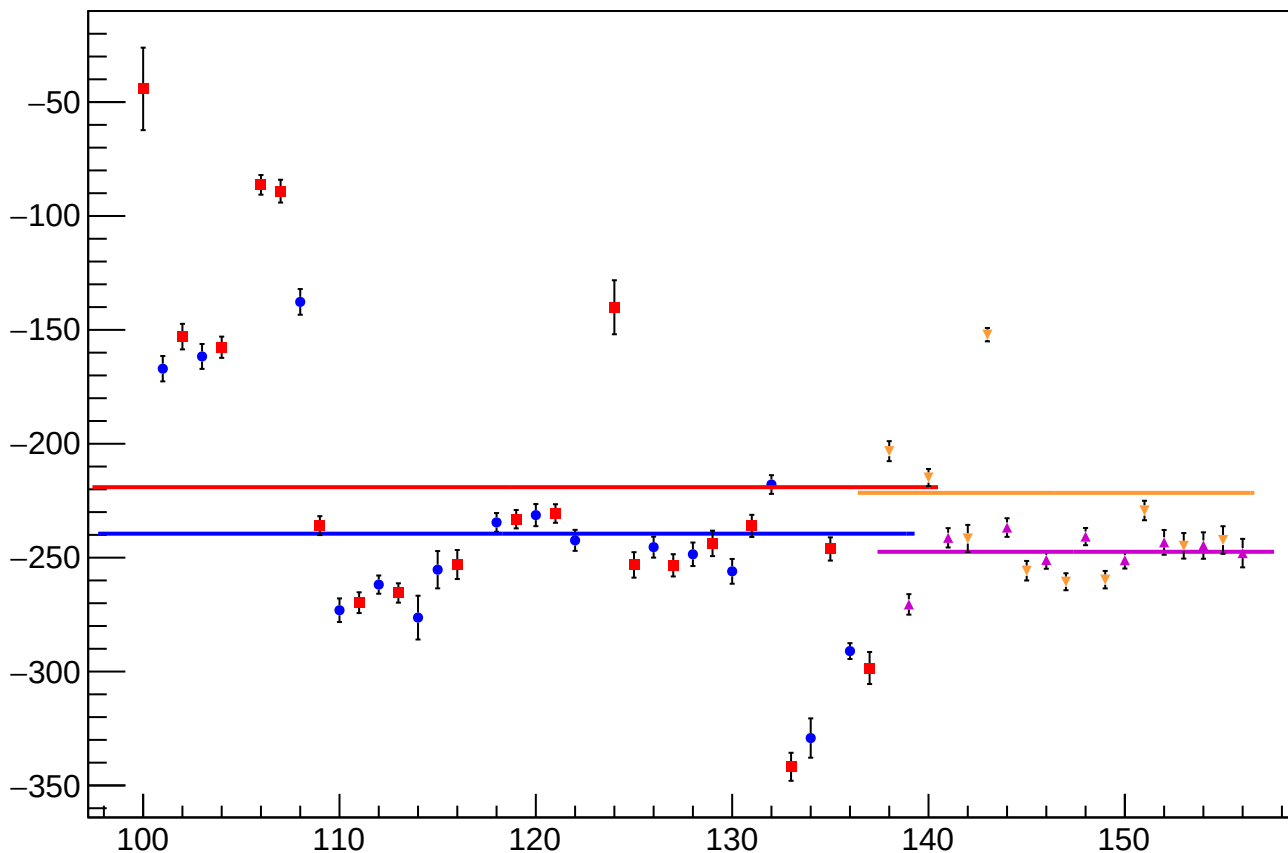
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: -0.983 ± 0.738 χ^2/NDF : 409.6/24

Out: -2.283 ± 0.677 χ^2/NDF : 442.4/28

All: -1.689 ± 0.499 χ^2/NDF : 853.6/53

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468 ± 1.245 $\chi^2/\text{NDF}: 1162.2/15$

Left Out: -221.554 ± 1.318 $\chi^2/\text{NDF}: 900.8/9$

Right Out: -219.053 ± 1.176 $\chi^2/\text{NDF}: 3049.3/18$

Left In: -247.425 ± 1.468 $\chi^2/\text{NDF}: 41.1/8$

Left: -233.103 ± 0.981 $\chi^2/\text{NDF}: 1114.0/18$

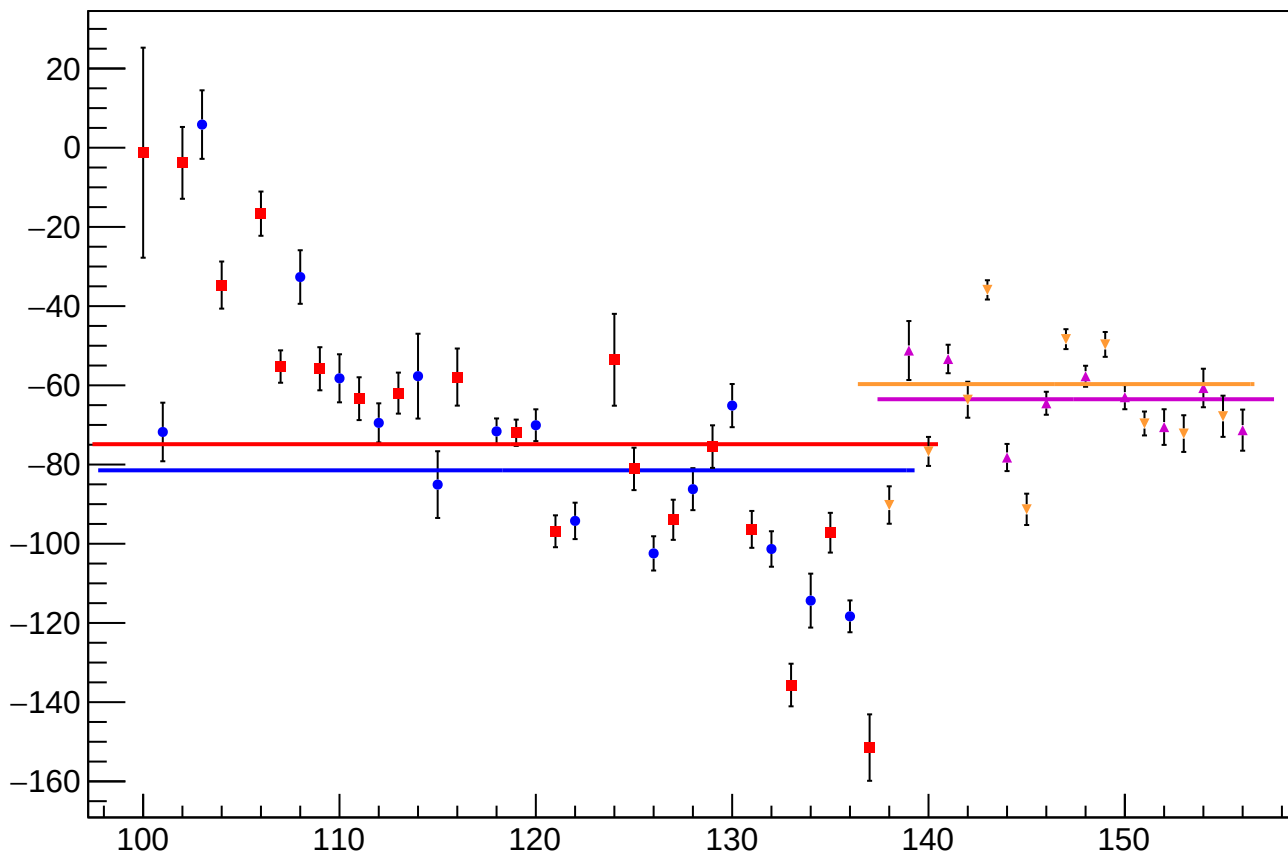
Right: -228.679 ± 0.855 $\chi^2/\text{NDF}: 4353.5/34$

In: -242.799 ± 0.950 $\chi^2/\text{NDF}: 1220.4/24$

Out: -220.162 ± 0.878 $\chi^2/\text{NDF}: 3952.1/28$

All: -230.590 ± 0.644 $\chi^2/\text{NDF}: 5479.1/53$

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: -59.688 ± 1.083 $\chi^2/\text{NDF}: 274.4/9$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -63.509 ± 1.215 $\chi^2/\text{NDF}: 39.1/8$

Left: -61.380 ± 0.808 $\chi^2/\text{NDF}: 319.1/18$

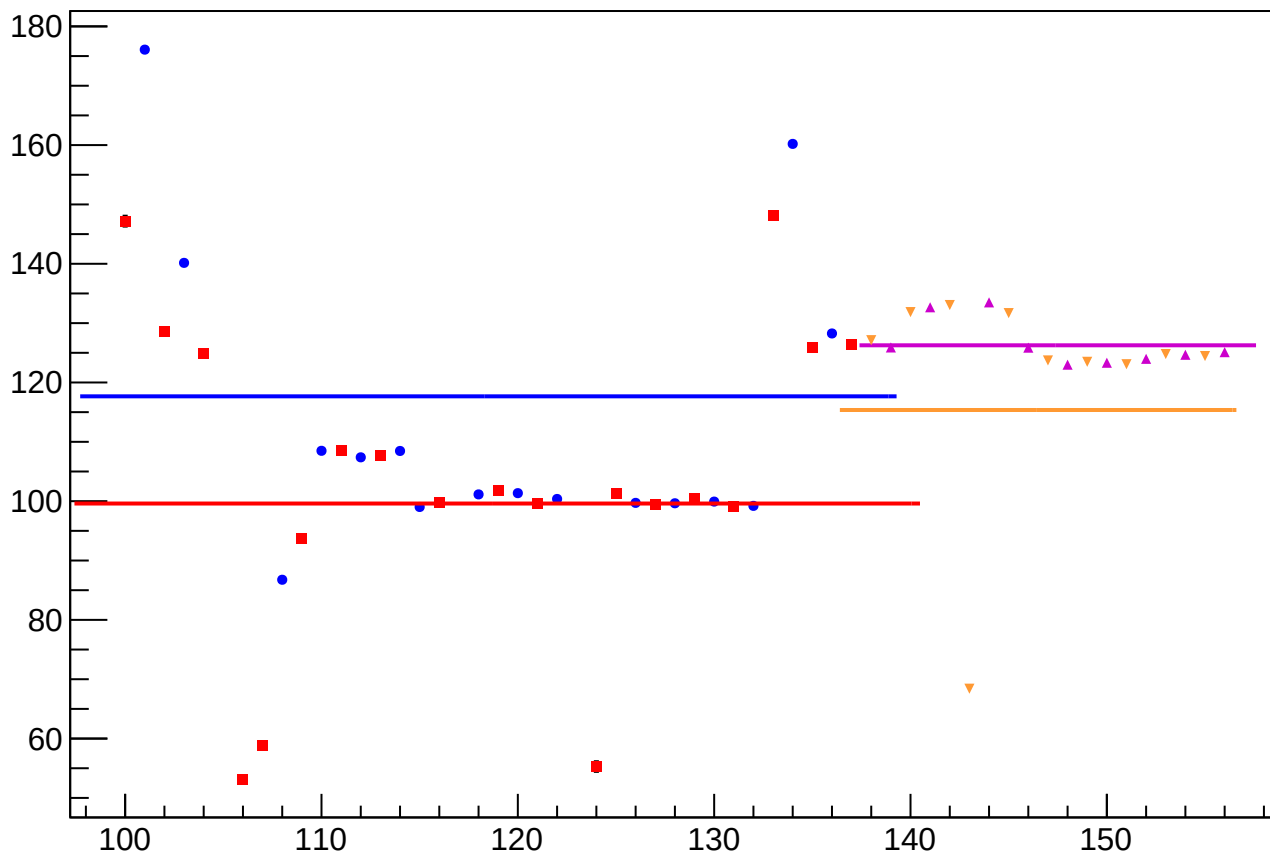
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -71.967 ± 0.883 $\chi^2/\text{NDF}: 508.5/24$

Out: -66.311 ± 0.813 $\chi^2/\text{NDF}: 936.8/28$

All: -68.904 ± 0.598 $\chi^2/\text{NDF}: 1467.5/53$

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: 115.364 $\pm$ 0.054 χ^2 /NDF: 189093.5/9

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 126.265 $\pm$ 0.058 χ^2 /NDF: 4019.1/8

Left: 120.441 $\pm$ 0.039 χ^2 /NDF: 212312.9/18

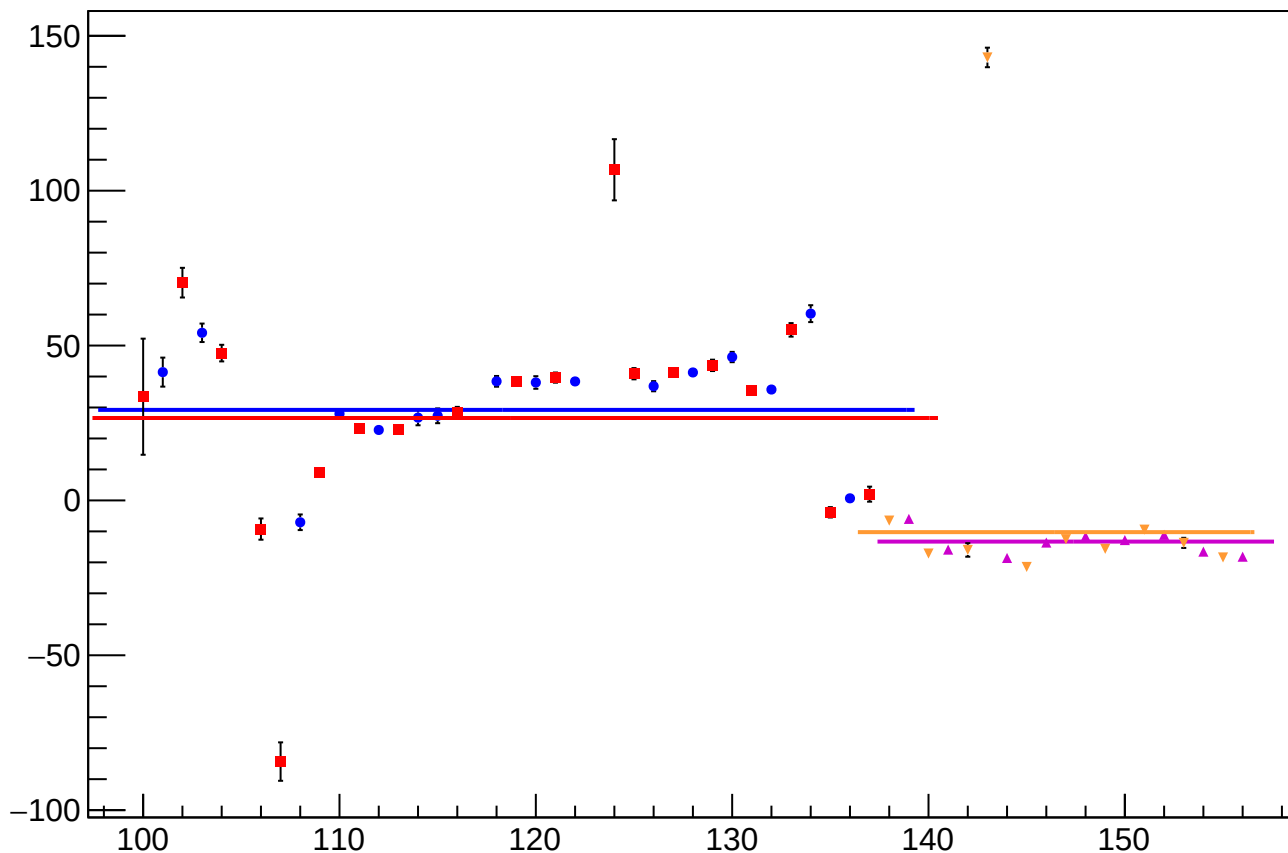
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 123.250 $\pm$ 0.046 χ^2 /NDF: 107257.7/24

Out: 109.558 $\pm$ 0.043 χ^2 /NDF: 387066.6/28

All: 115.840 $\pm$ 0.031 χ^2 /NDF: 541566.0/53

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: -10.240+/-0.490 χ^2 /NDF:2503.0/9

Right Out: 26.609+/-0.414 χ^2 /NDF: 1920.6/18

Left In: -13.297+/-0.479 χ^2 /NDF:68.7/8

Left: -11.803+/-0.342 χ^2 /NDF: 2591.5/18

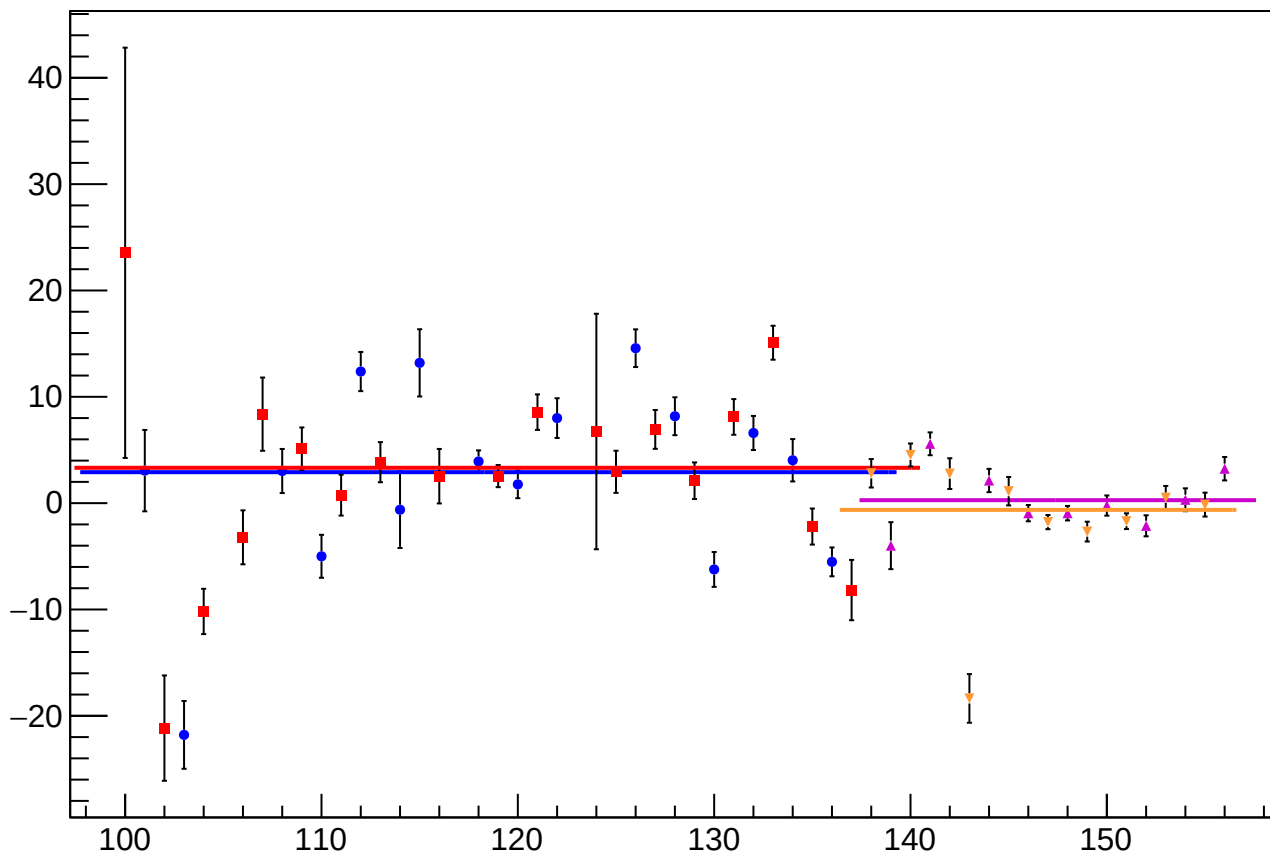
Right: 27.887+/-0.296 χ^2 /NDF: 3283.1/34

In: 10.528+/-0.318 χ^2 /NDF:5829.4/24

Out: 11.248+/-0.316 χ^2 /NDF:7724.8/28

All: 10.890+/-0.224 χ^2 /NDF: 13556.7/53

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 $\chi^2/\text{NDF}: 250.0/15$

Left Out: -0.632 ± 0.325 $\chi^2/\text{NDF}: 108.0/9$

Right Out: 3.326 ± 0.454 $\chi^2/\text{NDF}: 181.8/18$

Left In: 0.278 ± 0.323 $\chi^2/\text{NDF}: 50.2/8$

Left: -0.174 ± 0.229 $\chi^2/\text{NDF}: 162.1/18$

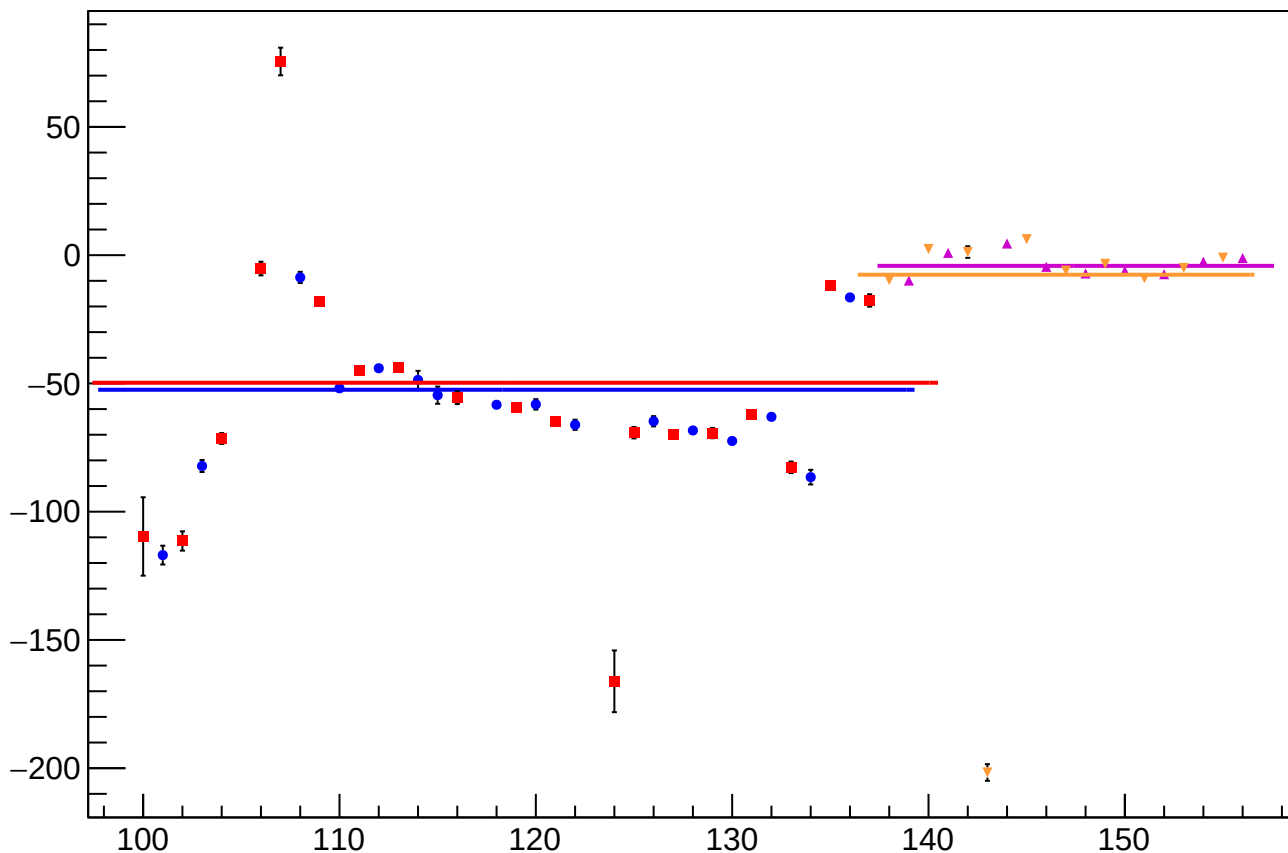
Right: 3.114 ± 0.317 $\chi^2/\text{NDF}: 432.2/34$

In: 1.194 ± 0.261 $\chi^2/\text{NDF}: 323.3/24$

Out: 0.710 ± 0.264 $\chi^2/\text{NDF}: 340.1/28$

All: 0.955 ± 0.186 $\chi^2/\text{NDF}: 665.0/53$

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: -7.626 ± 0.479 $\chi^2/\text{NDF}: 3764.1/9$

Right Out: -49.734 ± 0.494 $\chi^2/\text{NDF}: 3009.7/18$

Left In: -4.169 ± 0.465 $\chi^2/\text{NDF}: 82.3/8$

Left: -5.847 ± 0.334 $\chi^2/\text{NDF}: 3873.3/18$

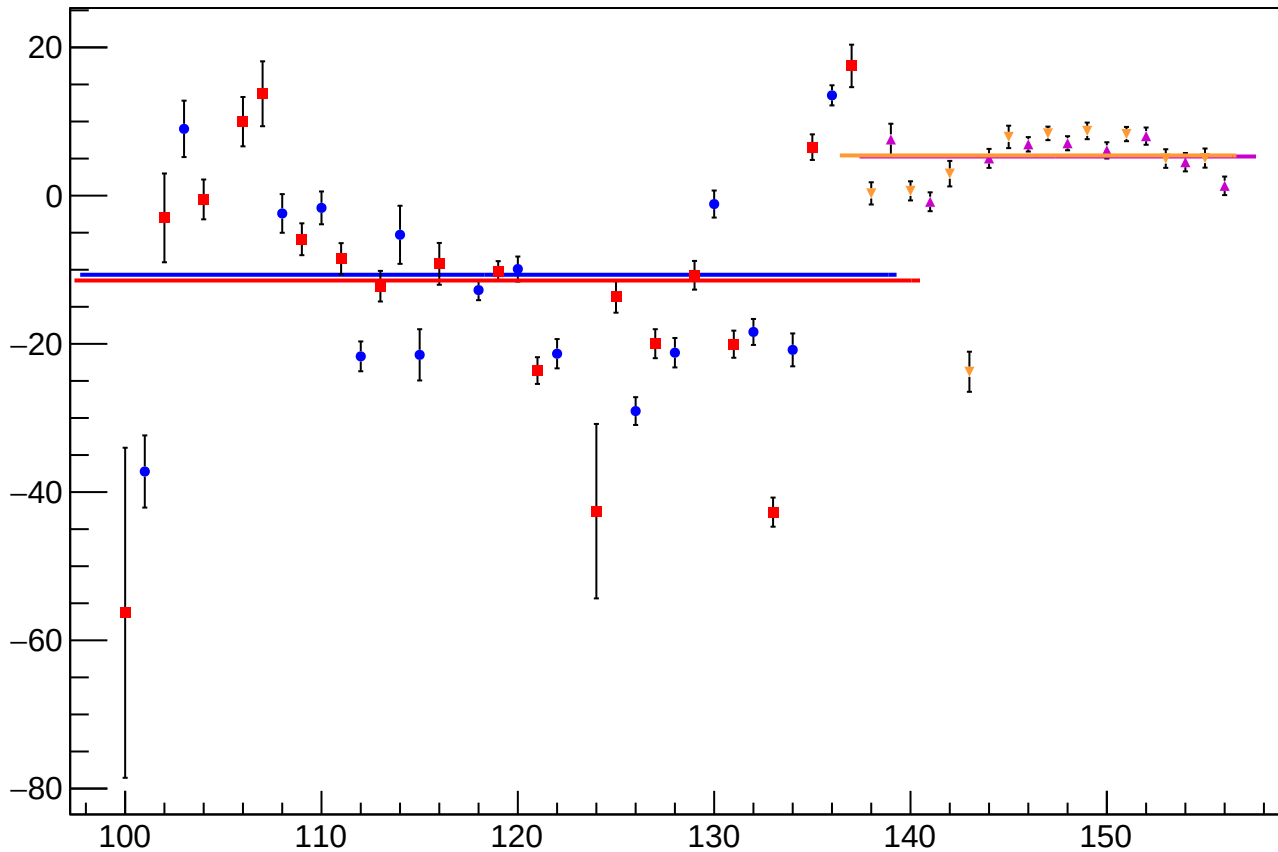
Right: -51.118 ± 0.347 $\chi^2/\text{NDF}: 5355.4/34$

In: -27.167 ± 0.337 $\chi^2/\text{NDF}: 7548.3/24$

Out: -28.019 ± 0.344 $\chi^2/\text{NDF}: 10520.1/28$

All: -27.584 ± 0.241 $\chi^2/\text{NDF}: 18071.5/53$

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: 5.421 ± 0.399 χ^2/NDF : 175.1/9

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 5.279 ± 0.393 χ^2/NDF : 47.2/8

Left: 5.349 ± 0.280 χ^2/NDF : 222.3/18

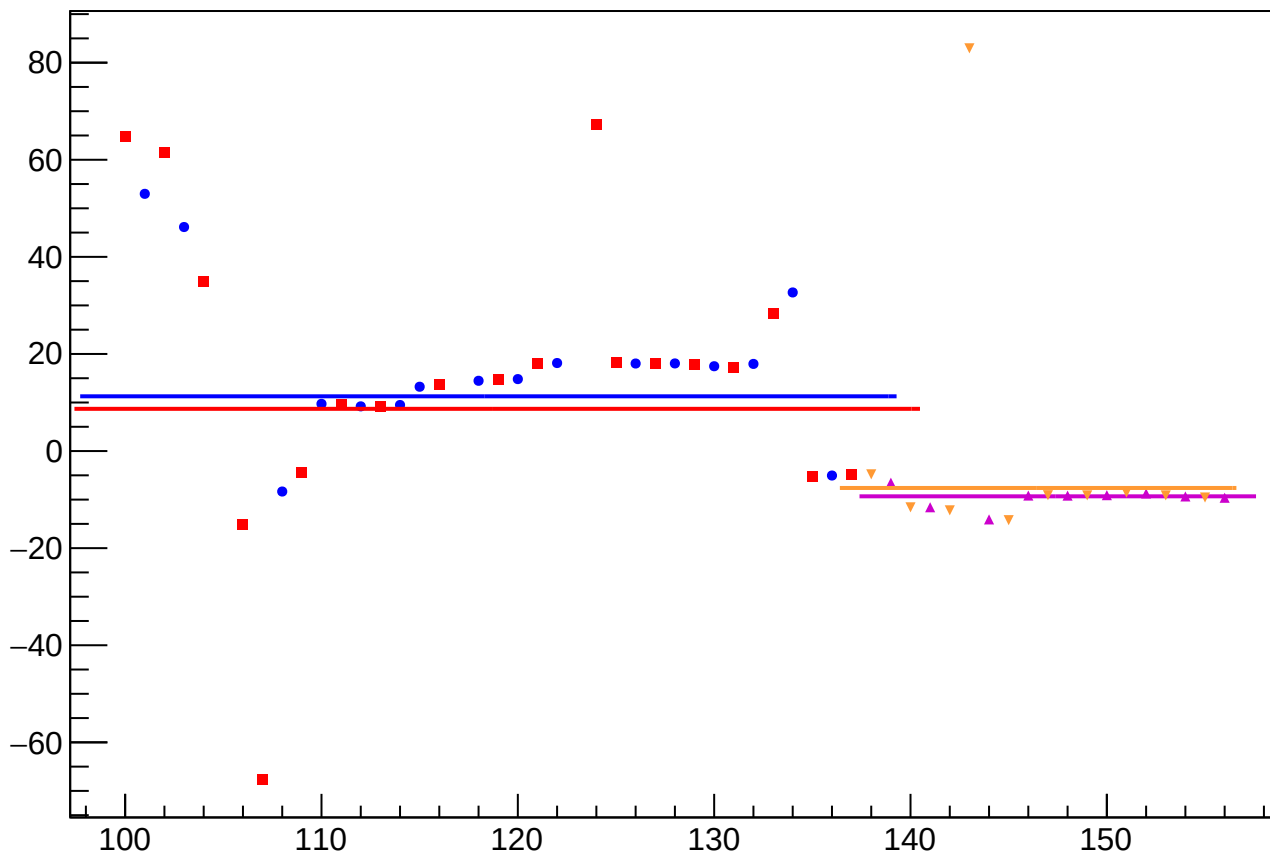
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: -0.732 ± 0.310 χ^2/NDF : 1334.4/24

Out: -0.900 ± 0.316 χ^2/NDF : 1509.2/28

All: -0.814 ± 0.221 χ^2/NDF : 2843.7/53

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: -7.603+/-0.019 χ^2/NDF : 474758.3/9

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -9.323+/-0.018 χ^2/NDF : 10247.7/8

Left: -8.519+/-0.013 χ^2/NDF : 489451.1/18

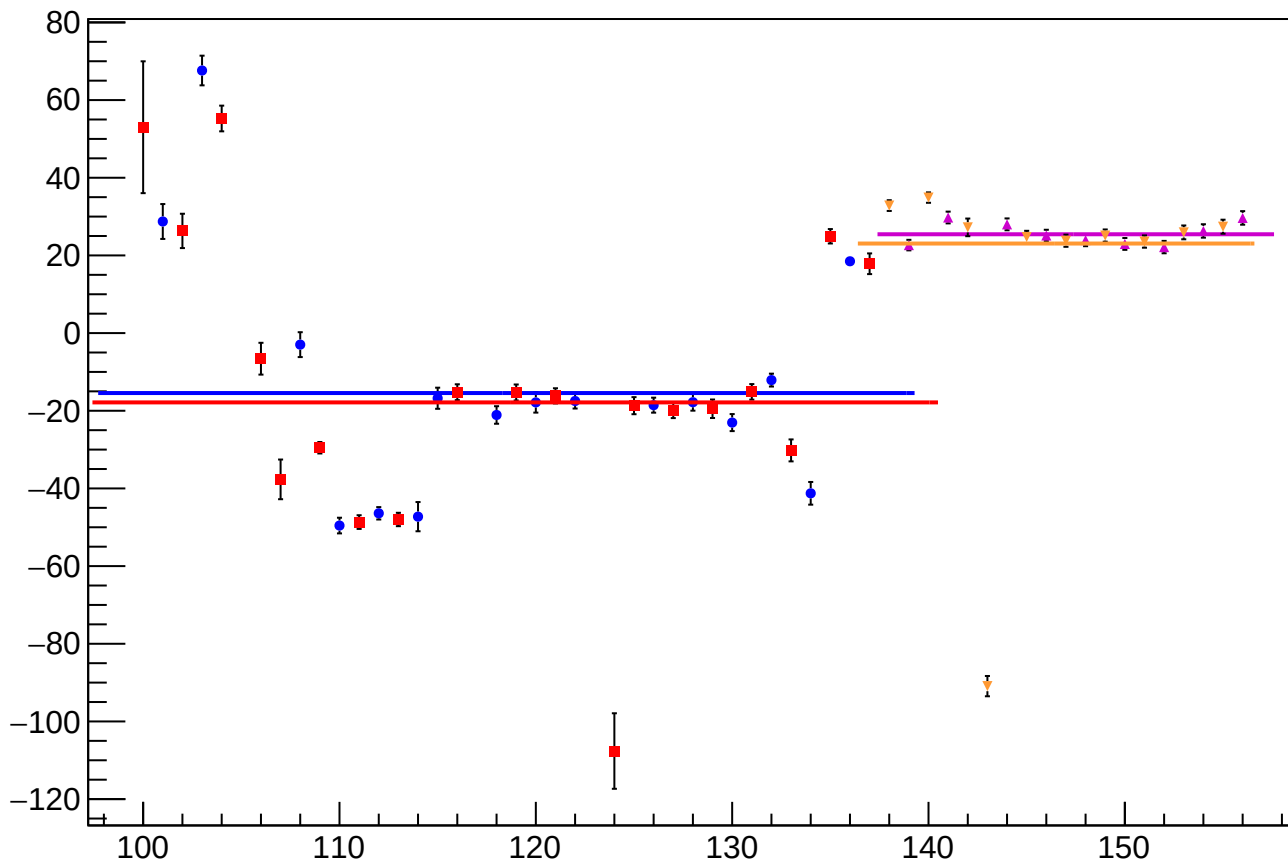
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: -4.009+/-0.015 χ^2/NDF : 711285.9/24

Out: -3.292+/-0.016 χ^2/NDF : 1108876.8/28

All: -3.672+/-0.011 χ^2/NDF : 1821205.0/53

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 $\pm$ 0.539 χ^2 /NDF: 2124.2/15

Left Out: 23.060 $\pm$ 0.524 χ^2 /NDF:2045.7/9

Right Out: -17.848 $\pm$ 0.530 χ^2 /NDF: 2125.2/18

Left In: 25.448 $\pm$ 0.516 χ^2 /NDF:29.1/8

Left: 24.273 $\pm$ 0.368 χ^2 /NDF: 2085.3/18

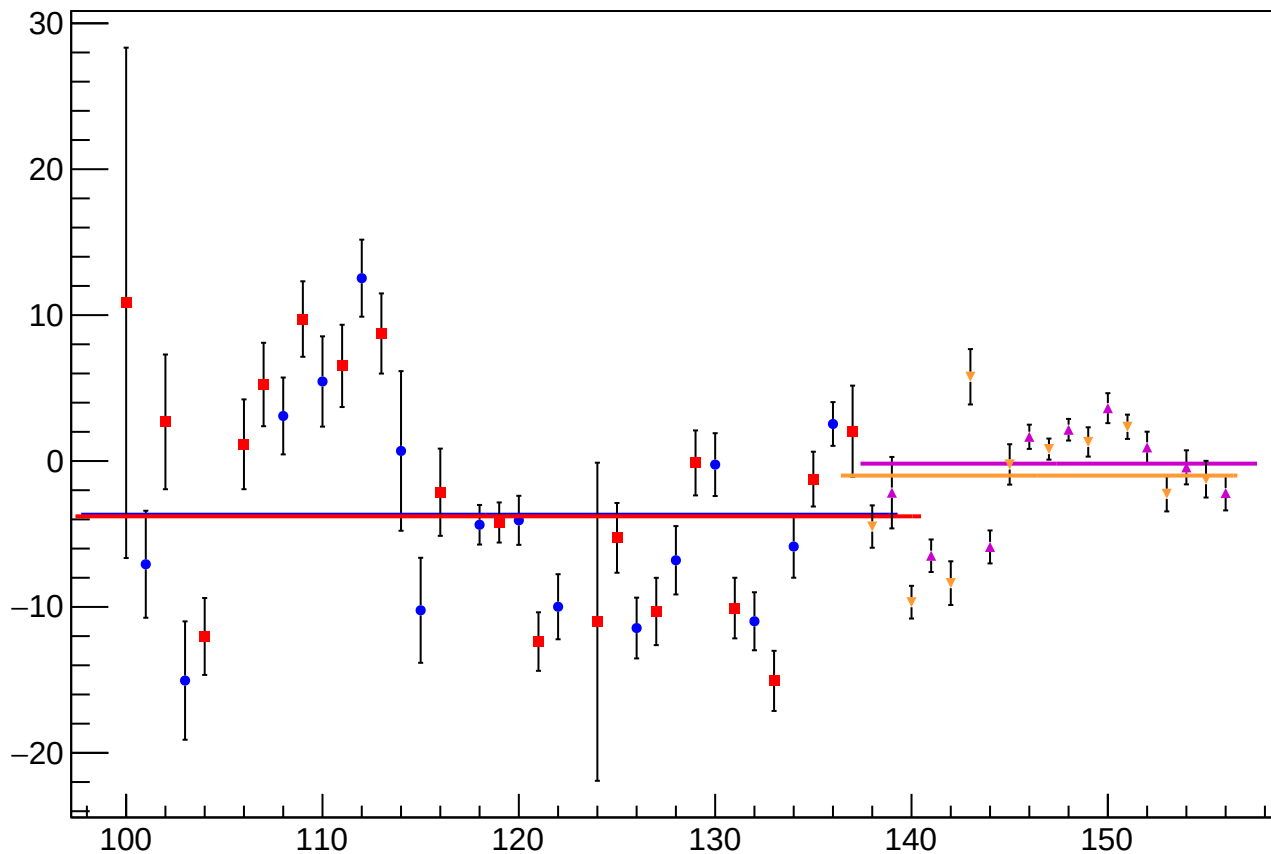
Right: -16.664 $\pm$ 0.378 χ^2 /NDF: 4259.6/34

In: 5.907 $\pm$ 0.373 χ^2 /NDF:5156.7/24

Out: 2.824 $\pm$ 0.373 χ^2 /NDF:7185.6/28

All: 4.365 $\pm$ 0.263 χ^2 /NDF: 12376.5/53

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: -0.996 ± 0.349 χ^2/NDF : 131.8/9

Right Out: -3.790 ± 0.564 χ^2/NDF : 161.2/18

Left In: -0.179 ± 0.347 χ^2/NDF : 90.7/8

Left: -0.585 ± 0.246 χ^2/NDF : 225.3/18

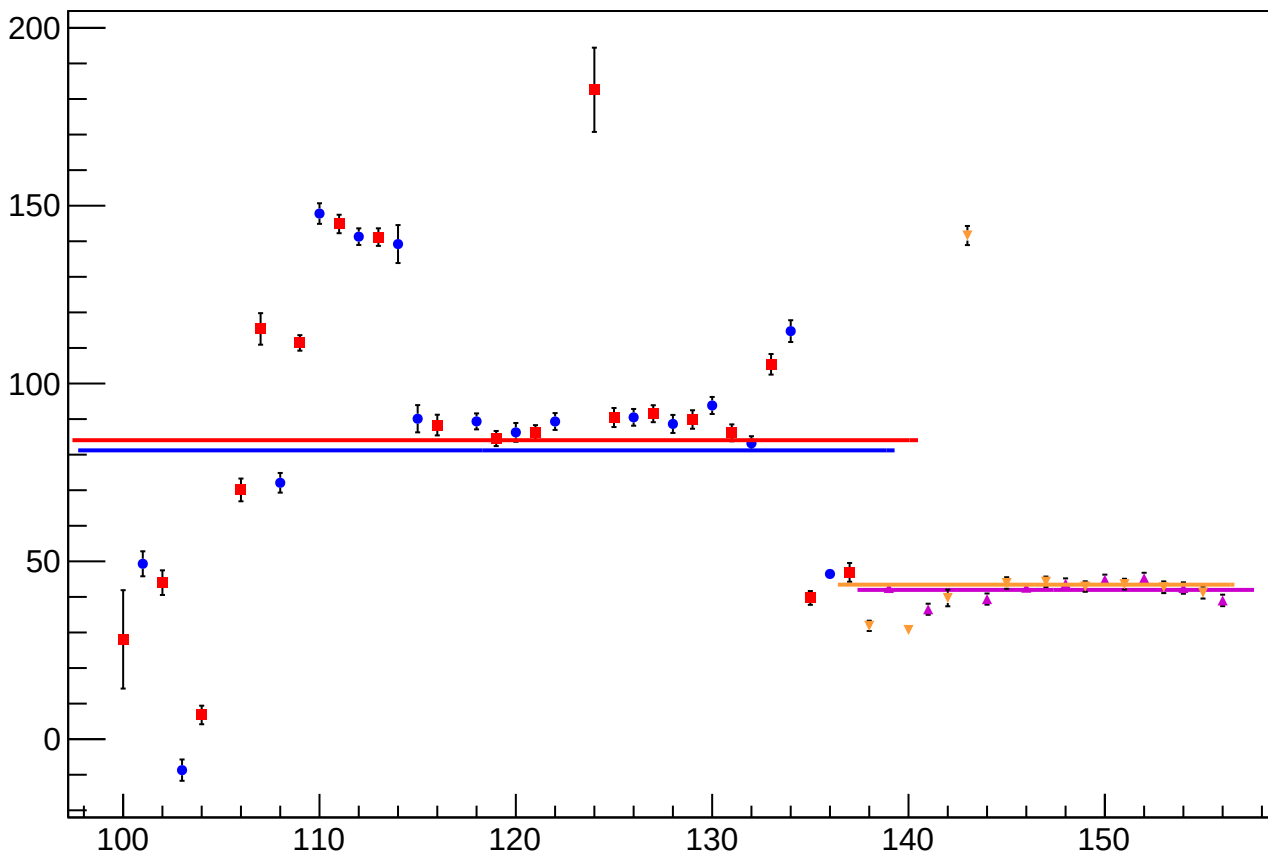
Right: -3.734 ± 0.394 χ^2/NDF : 285.2/34

In: -1.172 ± 0.294 χ^2/NDF : 243.5/24

Out: -1.771 ± 0.297 χ^2/NDF : 310.8/28

All: -1.469 ± 0.209 χ^2/NDF : 556.4/53

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203 $\pm$ 0.607 χ^2 /NDF: 3230.5/15

Left Out: 43.445 $\pm$ 0.513 χ^2 /NDF:1489.6/9

Right Out: 84.065 $\pm$ 0.616 χ^2 /NDF: 3206.5/18

Left In: 41.973 $\pm$ 0.501 χ^2 /NDF:28.9/8

Left: 42.691 $\pm$ 0.359 χ^2 /NDF: 1522.7/18

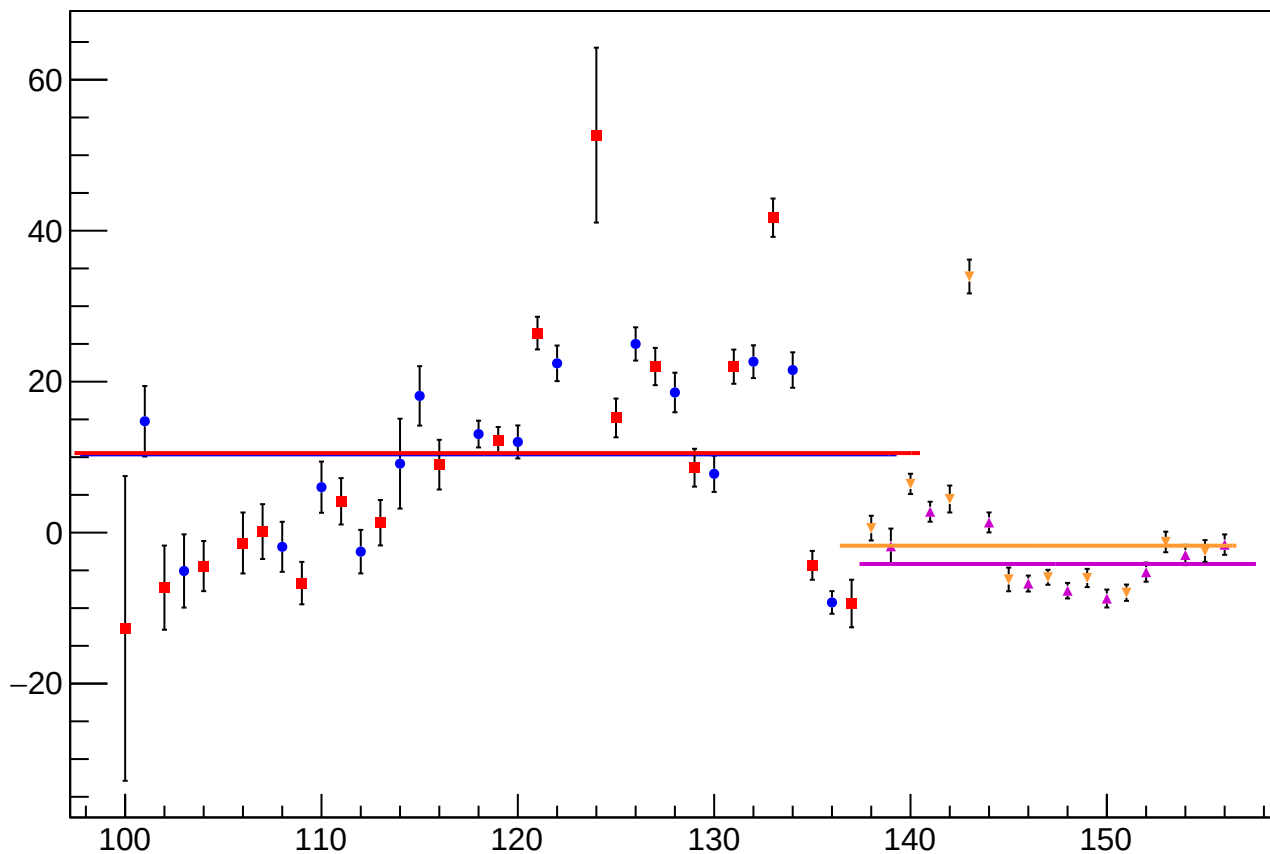
Right: 82.612 $\pm$ 0.432 χ^2 /NDF: 6447.9/34

In: 57.873 $\pm$ 0.386 χ^2 /NDF:5742.9/24

Out: 60.086 $\pm$ 0.394 χ^2 /NDF:7260.8/28

All: 58.957 $\pm$ 0.276 χ^2 /NDF: 13019.7/53

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: -1.728 $\pm$ 0.429 χ^2 /NDF: 376.7/9

Right Out: 10.539 $\pm$ 0.640 χ^2 /NDF: 470.7/18

Left In: -4.152 $\pm$ 0.423 χ^2 /NDF: 83.6/8

Left: -2.958 $\pm$ 0.301 χ^2 /NDF: 476.5/18

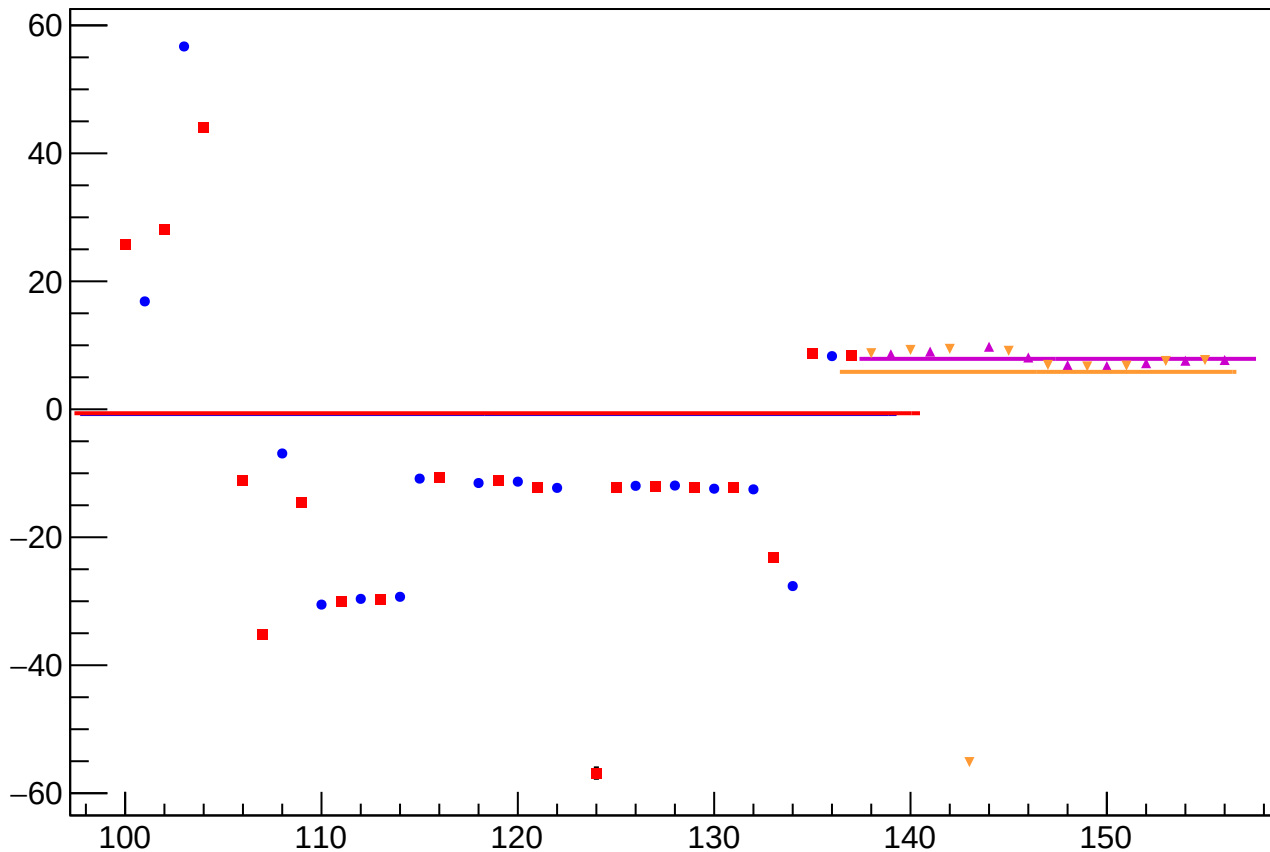
Right: 10.451 $\pm$ 0.448 χ^2 /NDF: 830.5/34

In: 0.388 $\pm$ 0.350 χ^2 /NDF: 812.5/24

Out: 2.073 $\pm$ 0.356 χ^2 /NDF: 1100.8/28

All: 1.216 $\pm$ 0.250 χ^2 /NDF: 1924.6/53

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: 5.850 ± 0.020 χ^2/NDF : 310314.9/9

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 7.883 ± 0.019 χ^2/NDF : 2104.6/8

Left: 6.930 ± 0.014 χ^2/NDF : 317752.7/18

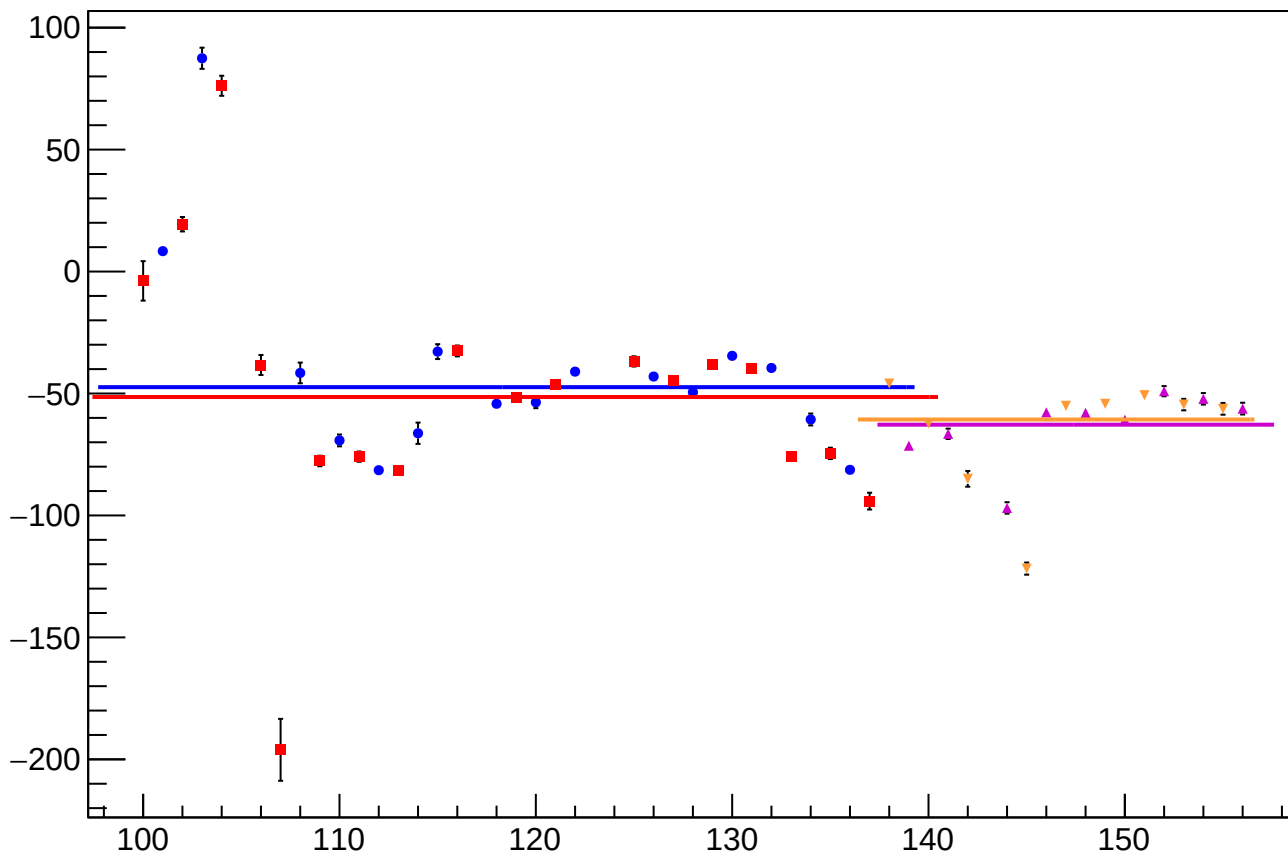
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 5.984 ± 0.017 χ^2/NDF : 415195.7/24

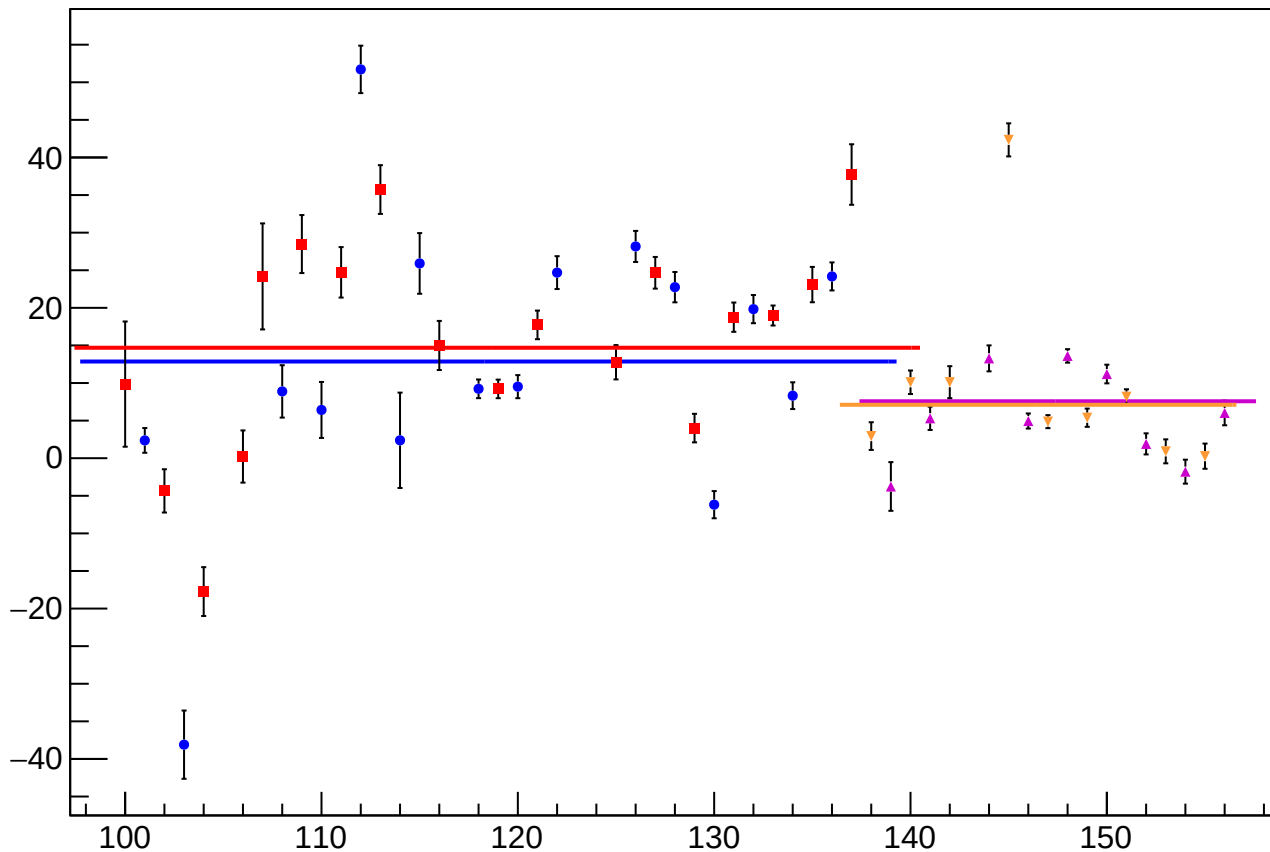
Out: 4.375 ± 0.018 χ^2/NDF : 649983.6/28

All: 5.225 ± 0.012 χ^2/NDF : 1069482.0/53

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.860 ± 0.519 χ^2/NDF : 625.5/15

Left Out: 7.105 ± 0.451 χ^2/NDF : 309.0/8

Right Out: 14.691 ± 0.544 χ^2/NDF : 364.1/17

Left In: 7.574 ± 0.447 χ^2/NDF : 137.7/8

Left: 7.342 ± 0.318 χ^2/NDF : 447.2/17

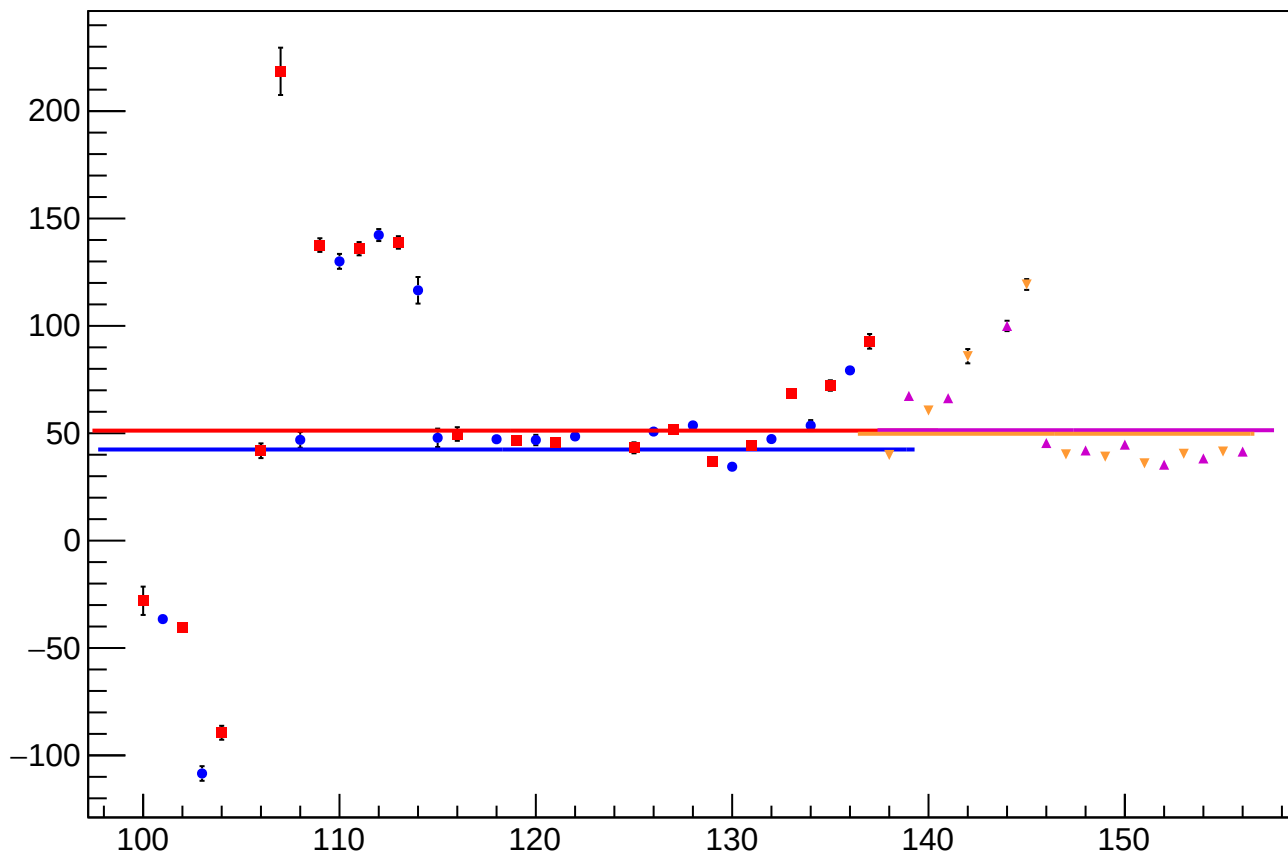
Right: 13.731 ± 0.375 χ^2/NDF : 995.5/33

In: 9.826 ± 0.339 χ^2/NDF : 822.8/24

Out: 10.195 ± 0.347 χ^2/NDF : 788.2/26

All: 10.006 ± 0.242 χ^2/NDF : 1611.6/51

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 42.437 ± 0.584 $\chi^2/\text{NDF}: 7168.9/15$

Left Out: 49.759 ± 0.680 $\chi^2/\text{NDF}: 1094.7/8$

Right Out: 51.226 ± 0.615 $\chi^2/\text{NDF}: 6611.3/17$

Left In: 51.409 ± 0.657 $\chi^2/\text{NDF}: 700.4/8$

Left: 50.613 ± 0.473 $\chi^2/\text{NDF}: 1798.1/17$

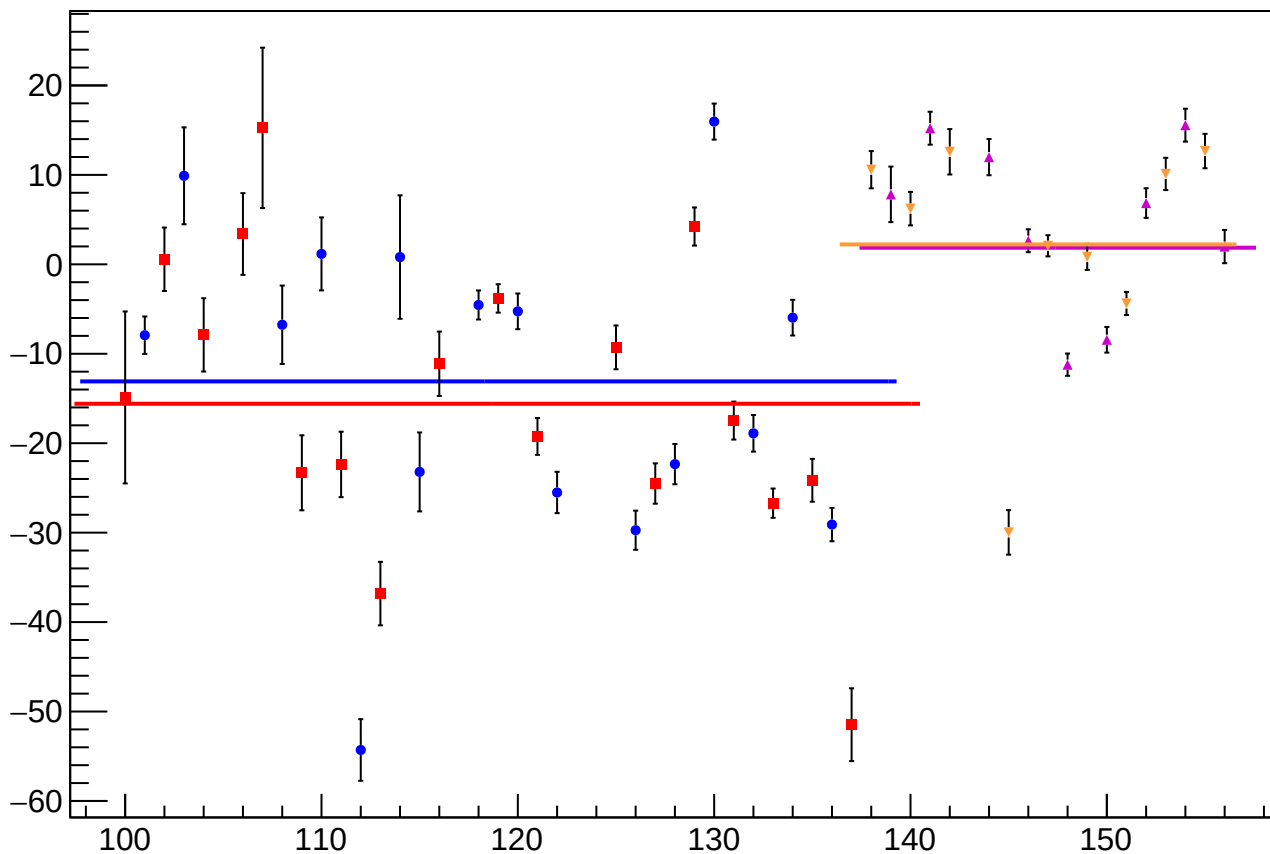
Right: 46.608 ± 0.424 $\chi^2/\text{NDF}: 13887.6/33$

In: 46.400 ± 0.437 $\chi^2/\text{NDF}: 7973.4/24$

Out: 50.566 ± 0.456 $\chi^2/\text{NDF}: 7708.5/26$

All: 48.392 ± 0.315 $\chi^2/\text{NDF}: 15725.5/51$

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: 2.225 ± 0.560 χ^2/NDF : 280.2/8

Right Out: -15.589 ± 0.627 χ^2/NDF : 401.8/17

Left In: 1.859 ± 0.548 χ^2/NDF : 307.9/8

Left: 2.038 ± 0.392 χ^2/NDF : 588.2/17

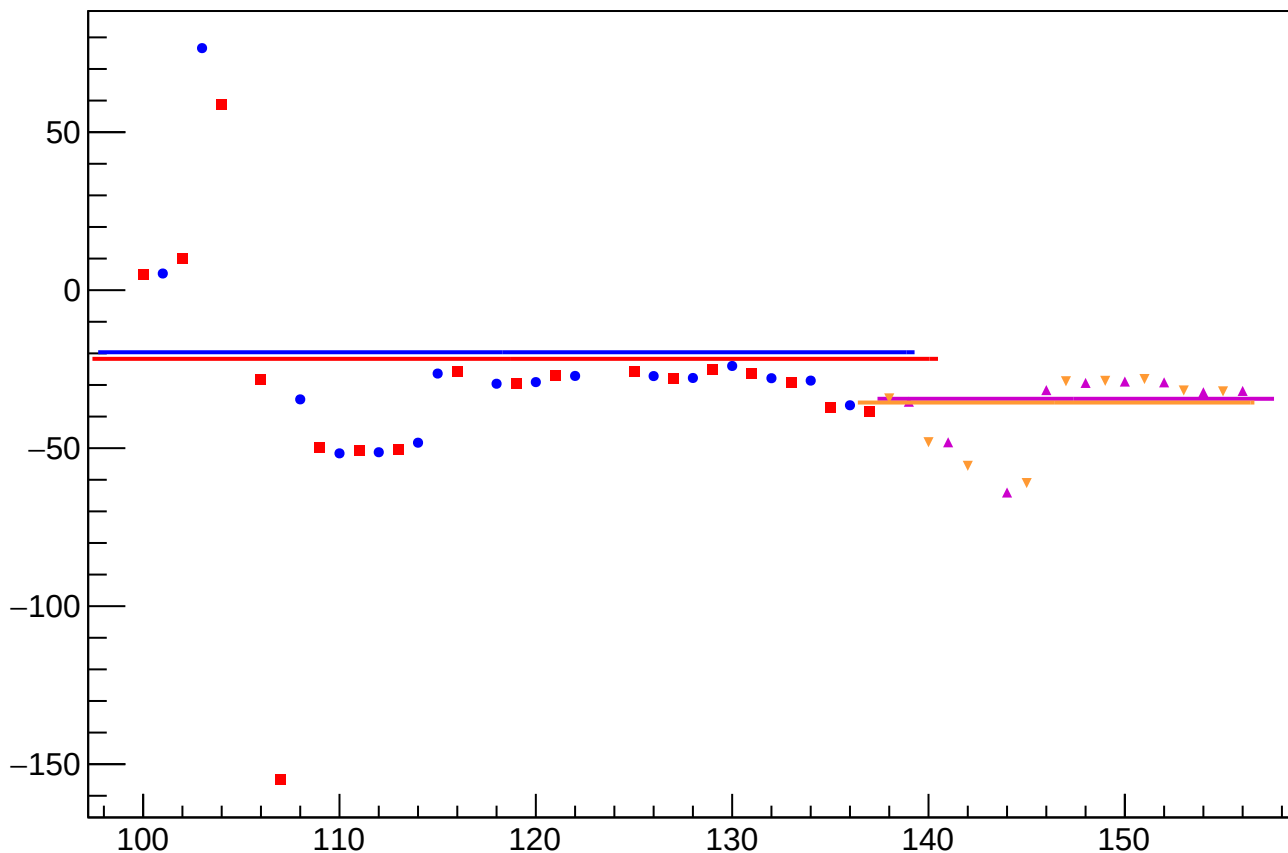
Right: -14.285 ± 0.433 χ^2/NDF : 1050.0/33

In: -4.941 ± 0.404 χ^2/NDF : 1286.4/24

Out: -5.679 ± 0.418 χ^2/NDF : 1131.3/26

All: -5.298 ± 0.291 χ^2/NDF : 2419.4/51

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: -35.558 ± 0.027 χ^2/NDF : 140820.1/8

Right Out: -21.730 ± 0.039 χ^2/NDF : 546659.9/17

Left In: -34.374 ± 0.025 χ^2/NDF : 118899.0/8

Left: -34.923 ± 0.018 χ^2/NDF : 260754.3/17

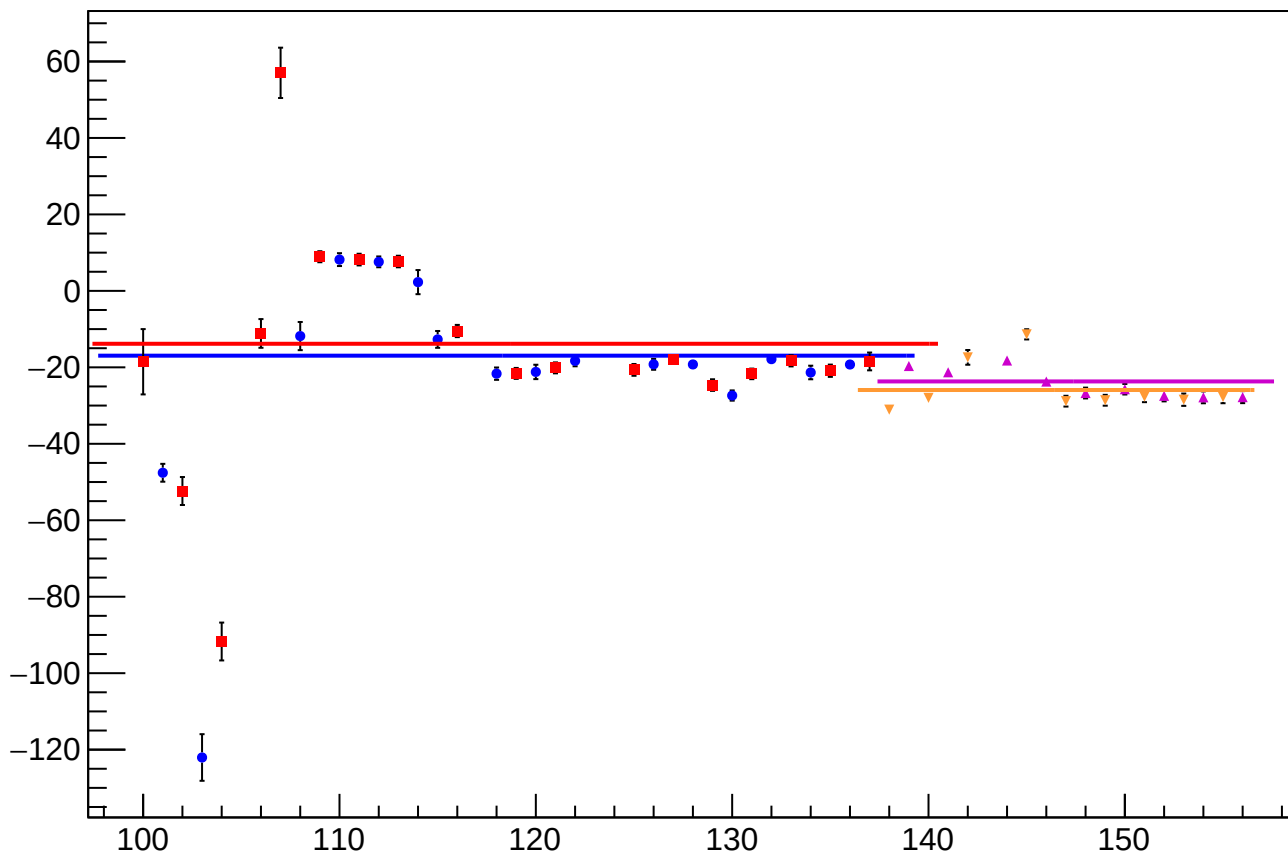
Right: -20.610 ± 0.026 χ^2/NDF : 1195130.0/33

In: -29.585 ± 0.021 χ^2/NDF : 878110.1/24

Out: -31.070 ± 0.022 χ^2/NDF : 772883.5/26

All: -30.273 ± 0.015 χ^2/NDF : 1653405.2/51

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: -25.930 ± 0.469 $\chi^2/\text{NDF}: 173.1/8$

Right Out: -13.837 ± 0.409 $\chi^2/\text{NDF}: 1333.2/17$

Left In: -23.687 ± 0.454 $\chi^2/\text{NDF}: 60.9/8$

Left: -24.771 ± 0.326 $\chi^2/\text{NDF}: 245.8/17$

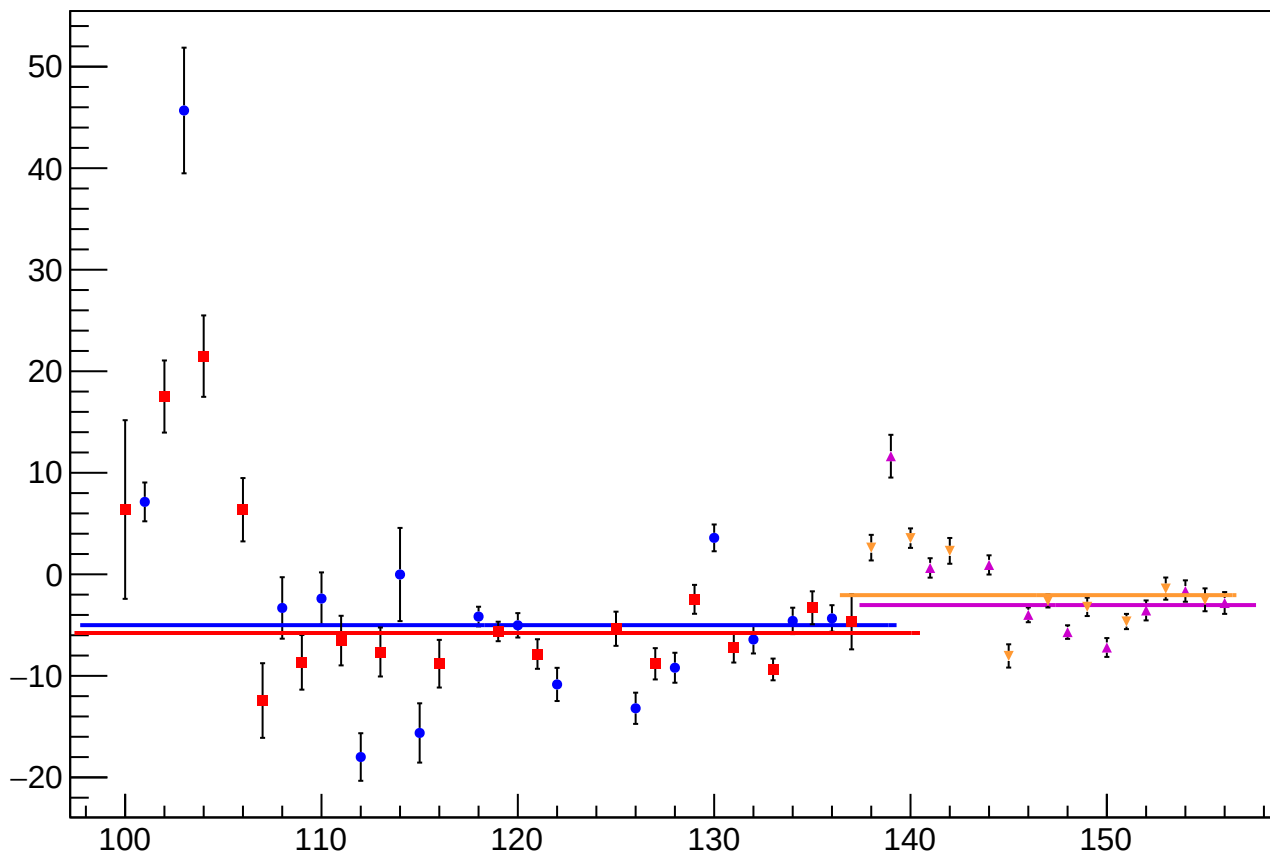
Right: -15.414 ± 0.287 $\chi^2/\text{NDF}: 2490.7/33$

In: -19.926 ± 0.302 $\chi^2/\text{NDF}: 1312.1/24$

Out: -19.060 ± 0.308 $\chi^2/\text{NDF}: 1883.4/26$

All: -19.502 ± 0.216 $\chi^2/\text{NDF}: 3199.6/51$

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.006 ± 0.401 $\chi^2/\text{NDF}: 247.8/15$

Left Out: -2.050 ± 0.315 $\chi^2/\text{NDF}: 102.0/8$

Right Out: -5.779 ± 0.419 $\chi^2/\text{NDF}: 139.3/17$

Left In: -3.029 ± 0.308 $\chi^2/\text{NDF}: 120.5/8$

Left: -2.550 ± 0.220 $\chi^2/\text{NDF}: 227.4/17$

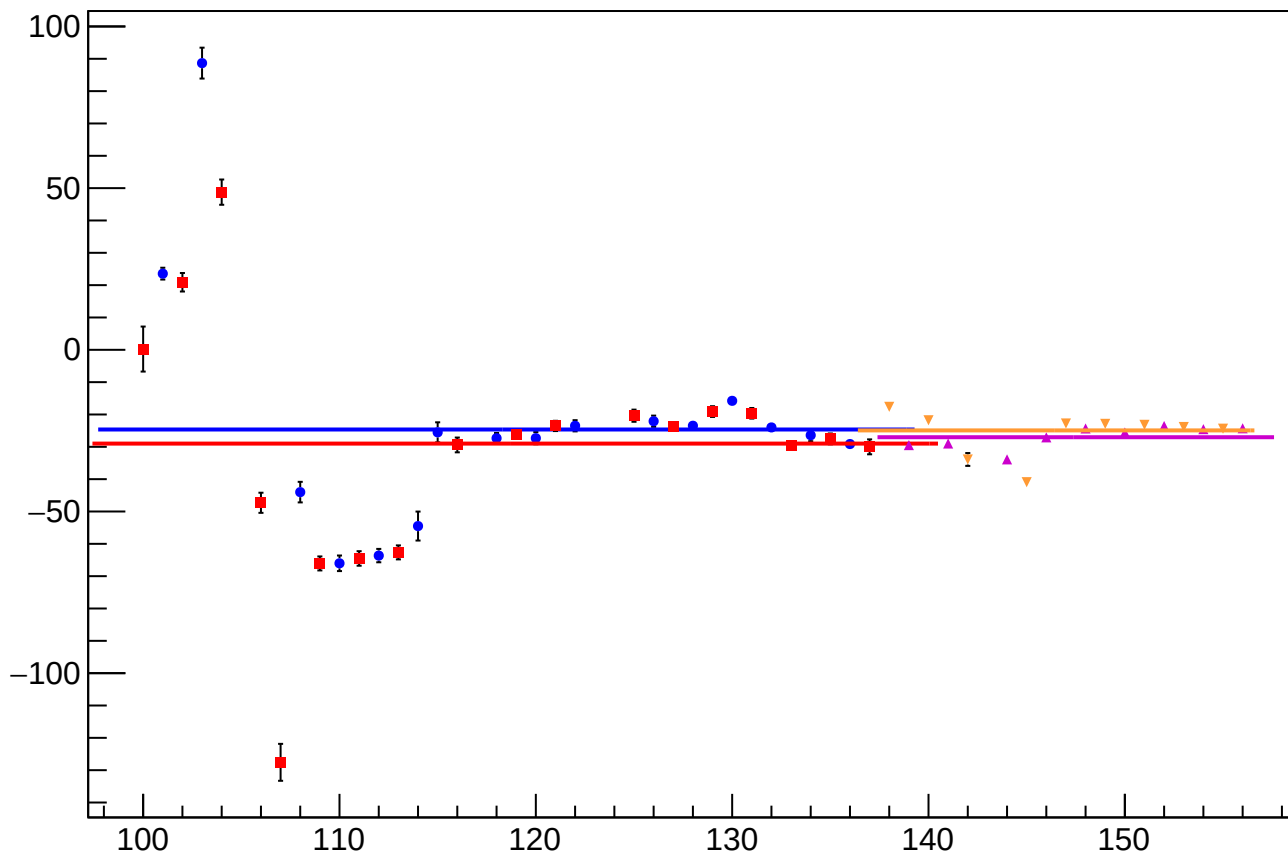
Right: -5.375 ± 0.290 $\chi^2/\text{NDF}: 388.9/33$

In: -3.763 ± 0.245 $\chi^2/\text{NDF}: 383.5/24$

Out: -3.394 ± 0.252 $\chi^2/\text{NDF}: 291.9/26$

All: -3.584 ± 0.175 $\chi^2/\text{NDF}: 676.5/51$

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: -24.922 ± 0.460 χ^2/NDF : 206.9/8

Right Out: -29.002 ± 0.475 χ^2/NDF : 1952.3/17

Left In: -27.030 ± 0.442 χ^2/NDF : 51.5/8

Left: -26.018 ± 0.319 χ^2/NDF : 269.3/17

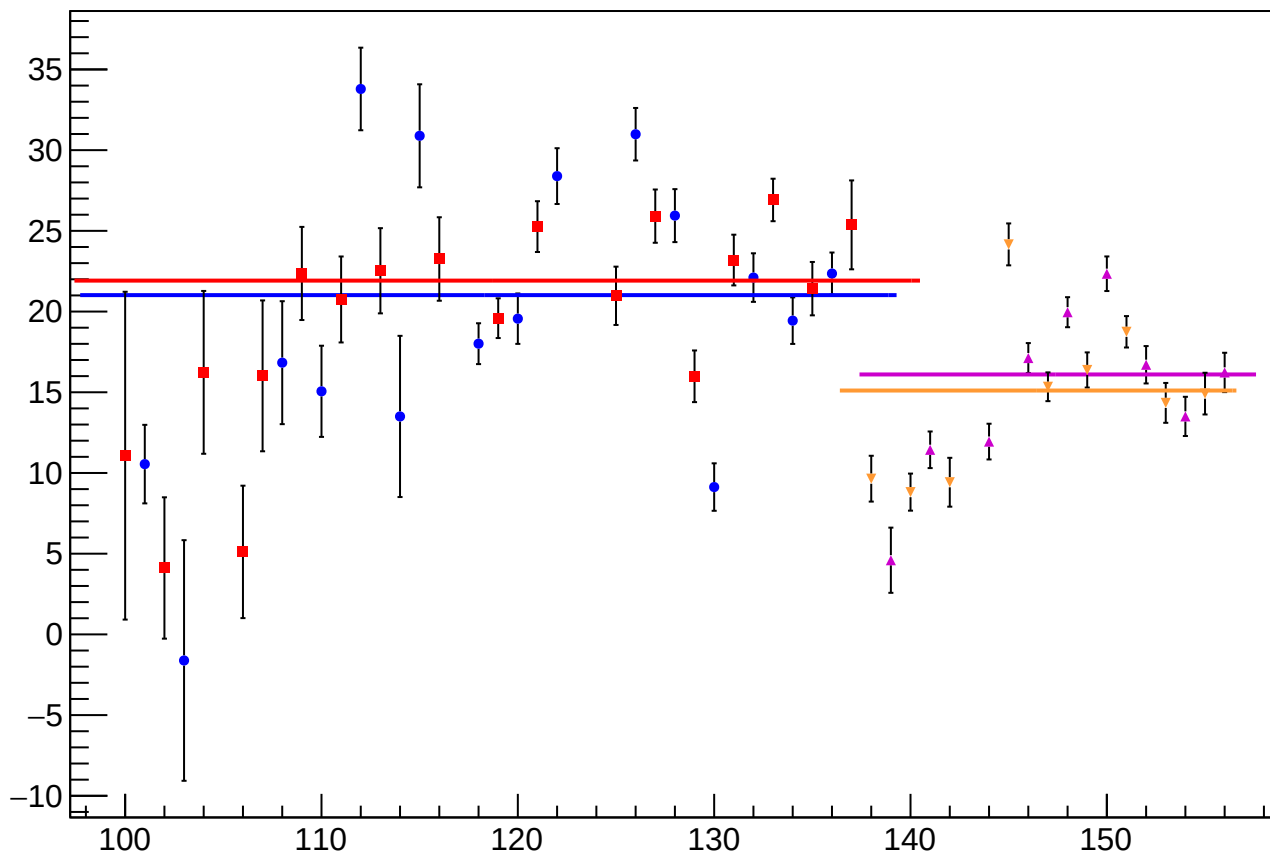
Right: -26.727 ± 0.329 χ^2/NDF : 4048.0/33

In: -25.869 ± 0.317 χ^2/NDF : 2117.5/24

Out: -26.896 ± 0.331 χ^2/NDF : 2197.2/26

All: -26.362 ± 0.229 χ^2/NDF : 4319.8/51

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: 15.108 $\pm$ 0.386 χ^2 /NDF:123.4/8

Right Out: 21.918 $\pm$ 0.478 χ^2 /NDF: 82.5/17

Left In: 16.104 $\pm$ 0.375 χ^2 /NDF:120.7/8

Left: 15.621 $\pm$ 0.269 χ^2 /NDF: 247.5/17

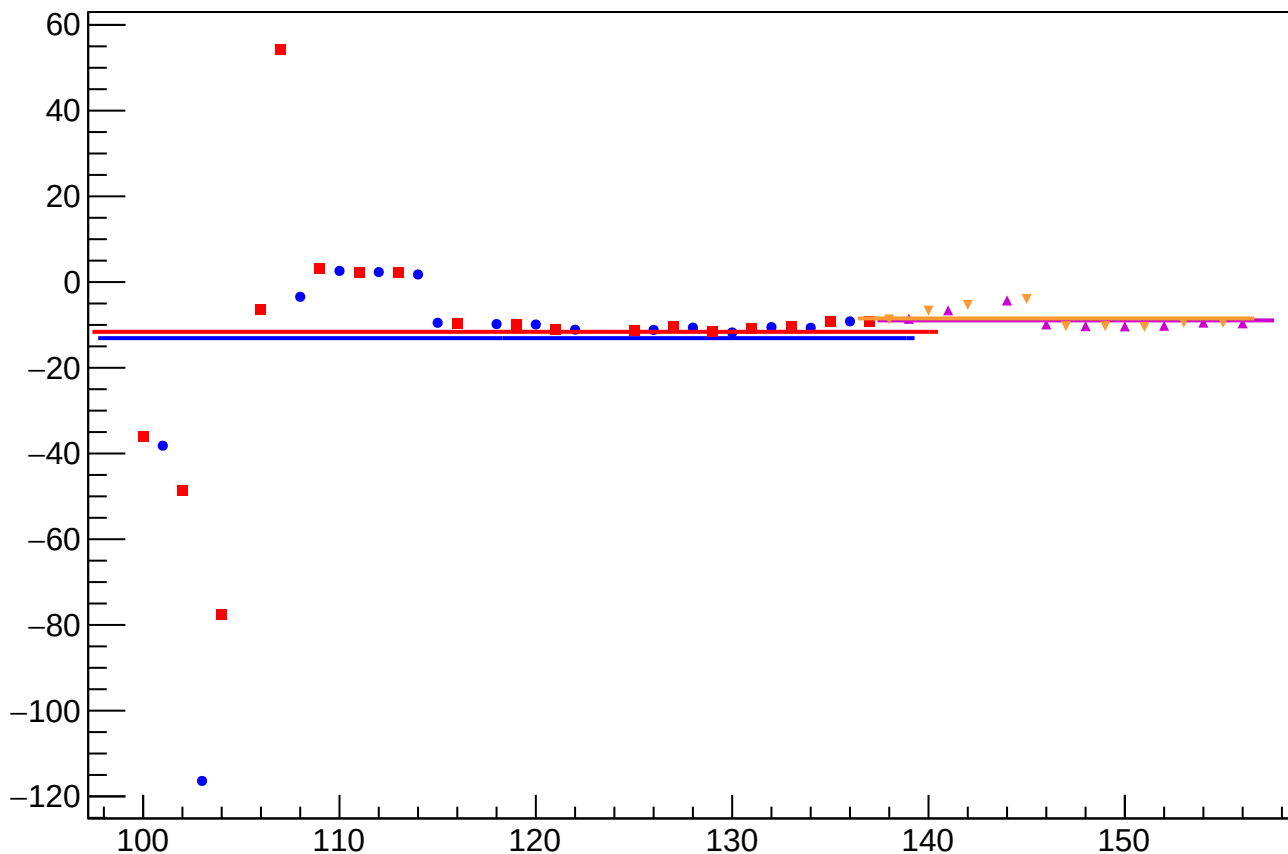
Right: 21.449 $\pm$ 0.331 χ^2 /NDF: 294.0/33

In: 18.073 $\pm$ 0.290 χ^2 /NDF:399.3/24

Out: 17.796 $\pm$ 0.301 χ^2 /NDF:328.6/26

All: 17.940 $\pm$ 0.209 χ^2 /NDF: 728.3/51

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -13.086 ± 0.028 $\chi^2/\text{NDF}: 344941.2/15$

Left Out: -8.485 ± 0.018 $\chi^2/\text{NDF}: 14126.5/8$

Right Out: -11.610 ± 0.031 $\chi^2/\text{NDF}: 314183.9/17$

Left In: -8.942 ± 0.017 $\chi^2/\text{NDF}: 10783.3/8$

Left: -8.730 ± 0.012 $\chi^2/\text{NDF}: 25248.5/17$

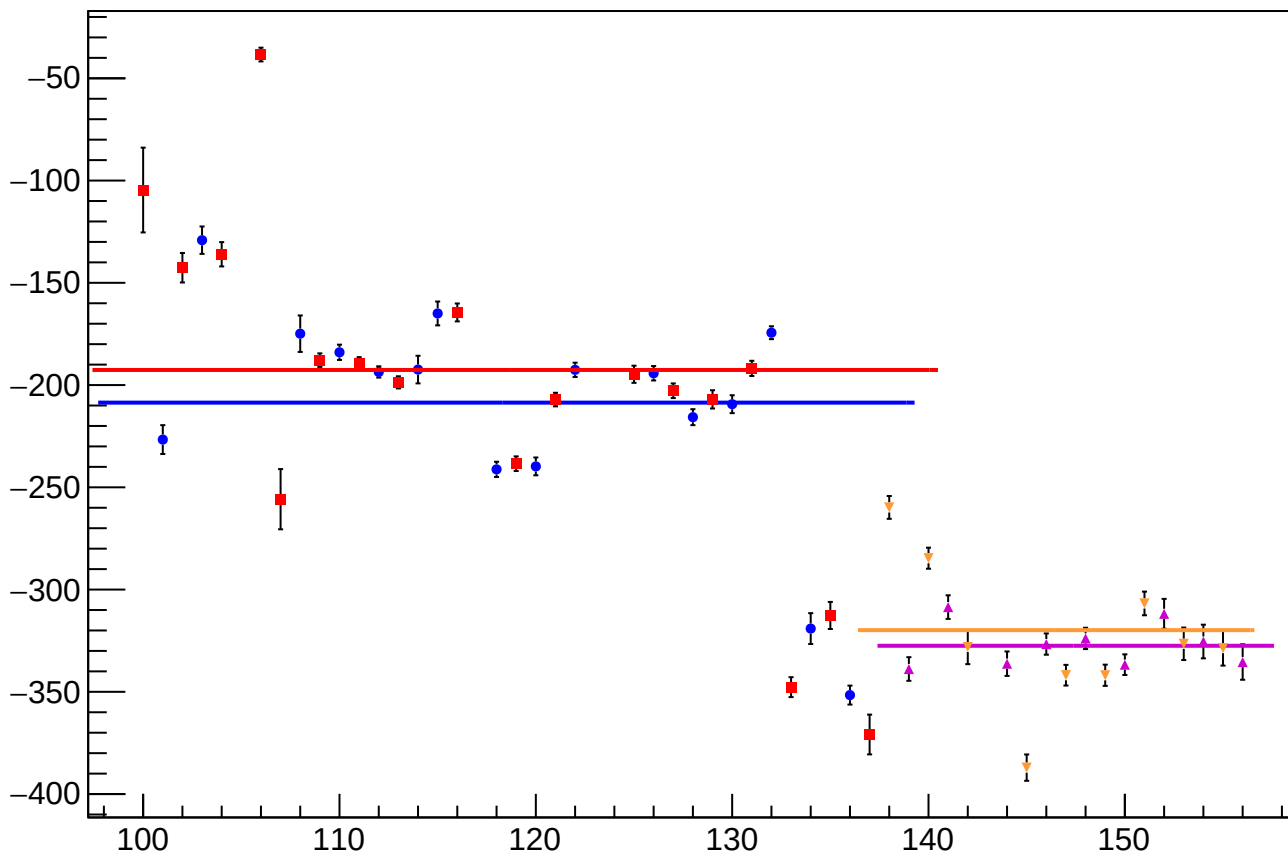
Right: -12.409 ± 0.021 $\chi^2/\text{NDF}: 660362.1/33$

In: -10.022 ± 0.015 $\chi^2/\text{NDF}: 371456.5/24$

Out: -9.289 ± 0.016 $\chi^2/\text{NDF}: 335910.3/26$

All: -9.684 ± 0.011 $\chi^2/\text{NDF}: 708545.1/51$

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -208.586 ± 1.067 $\chi^2/\text{NDF}: 1751.1/15$

Left Out: -319.847 ± 2.025 $\chi^2/\text{NDF}: 316.1/8$

Right Out: -192.617 ± 0.999 $\chi^2/\text{NDF}: 4207.1/17$

Left In: -327.485 ± 2.009 $\chi^2/\text{NDF}: 26.1/8$

Left: -323.697 ± 1.426 $\chi^2/\text{NDF}: 349.3/17$

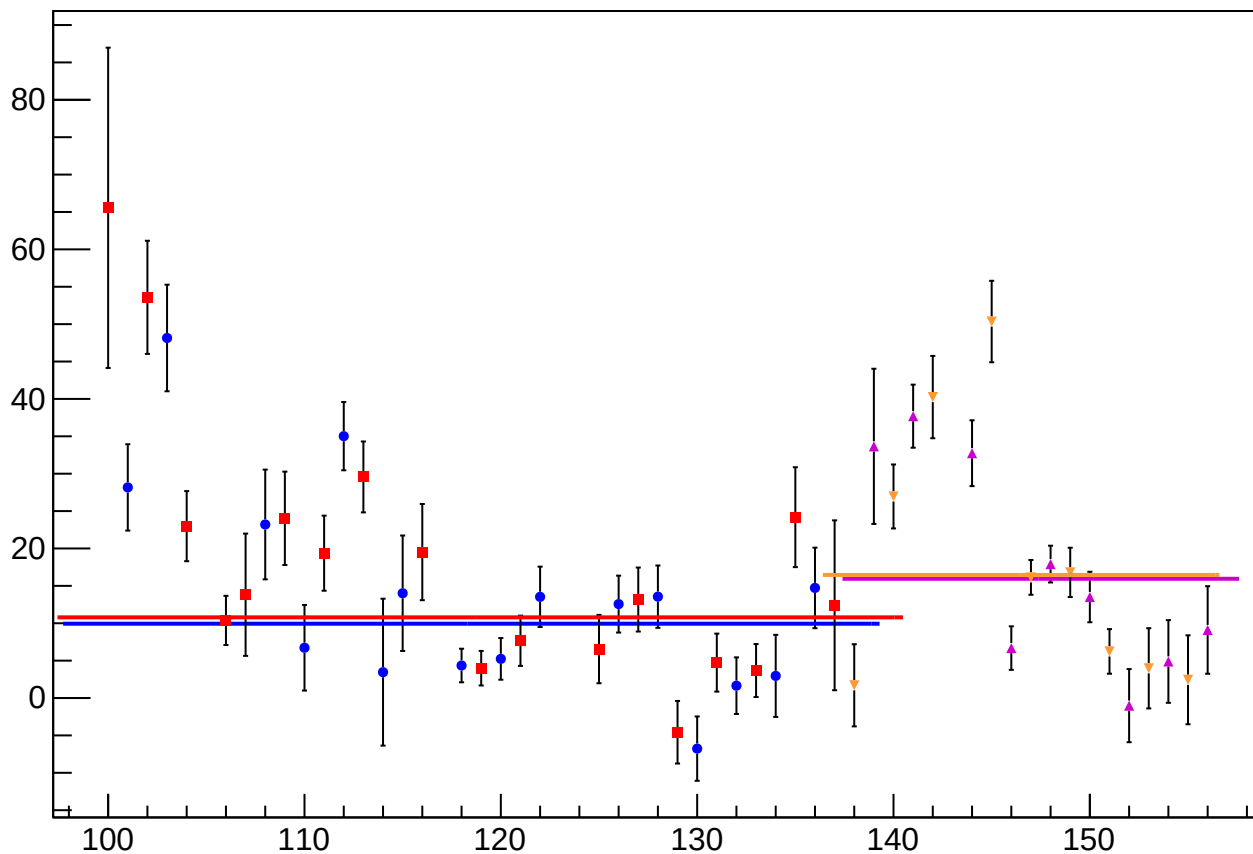
Right: -200.079 ± 0.729 $\chi^2/\text{NDF}: 6077.7/33$

In: -234.723 ± 0.942 $\chi^2/\text{NDF}: 4509.4/24$

Out: -217.510 ± 0.896 $\chi^2/\text{NDF}: 7697.6/26$

All: -225.684 ± 0.649 $\chi^2/\text{NDF}: 12382.3/51$

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.938 $\pm$ 1.065 χ^2 /NDF: 106.6/15

Left Out: 16.460 $\pm$ 1.283 χ^2 /NDF:93.4/8

Right Out: 10.788 $\pm$ 1.044 χ^2 /NDF: 105.1/17

Left In: 15.948 $\pm$ 1.299 χ^2 /NDF:72.8/8

Left: 16.208 $\pm$ 0.913 χ^2 /NDF: 166.2/17

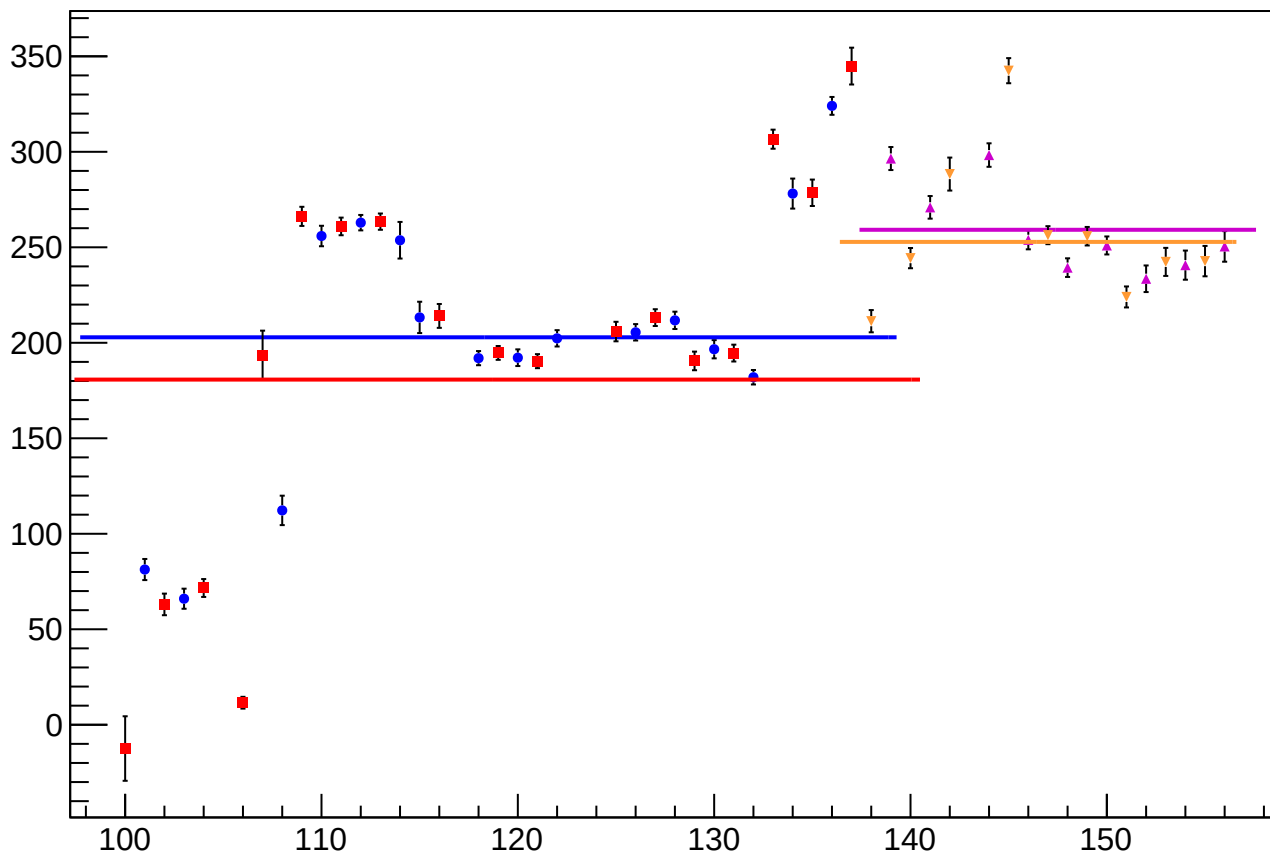
Right: 10.372 $\pm$ 0.746 χ^2 /NDF: 212.0/33

In: 12.354 $\pm$ 0.824 χ^2 /NDF:192.1/24

Out: 13.046 $\pm$ 0.810 χ^2 /NDF:210.2/26

All: 12.706 $\pm$ 0.577 χ^2 /NDF: 402.7/51

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 202.874+/-1.226 χ^2/NDF : 2464.2/15

Left Out: 252.828+/-1.974 χ^2/NDF :288.4/8

Right Out: 180.731+/-1.144 χ^2/NDF : 6347.9/17

Left In: 259.172+/-1.949 χ^2/NDF :123.9/8

Left: 256.040+/-1.387 χ^2/NDF : 417.5/17

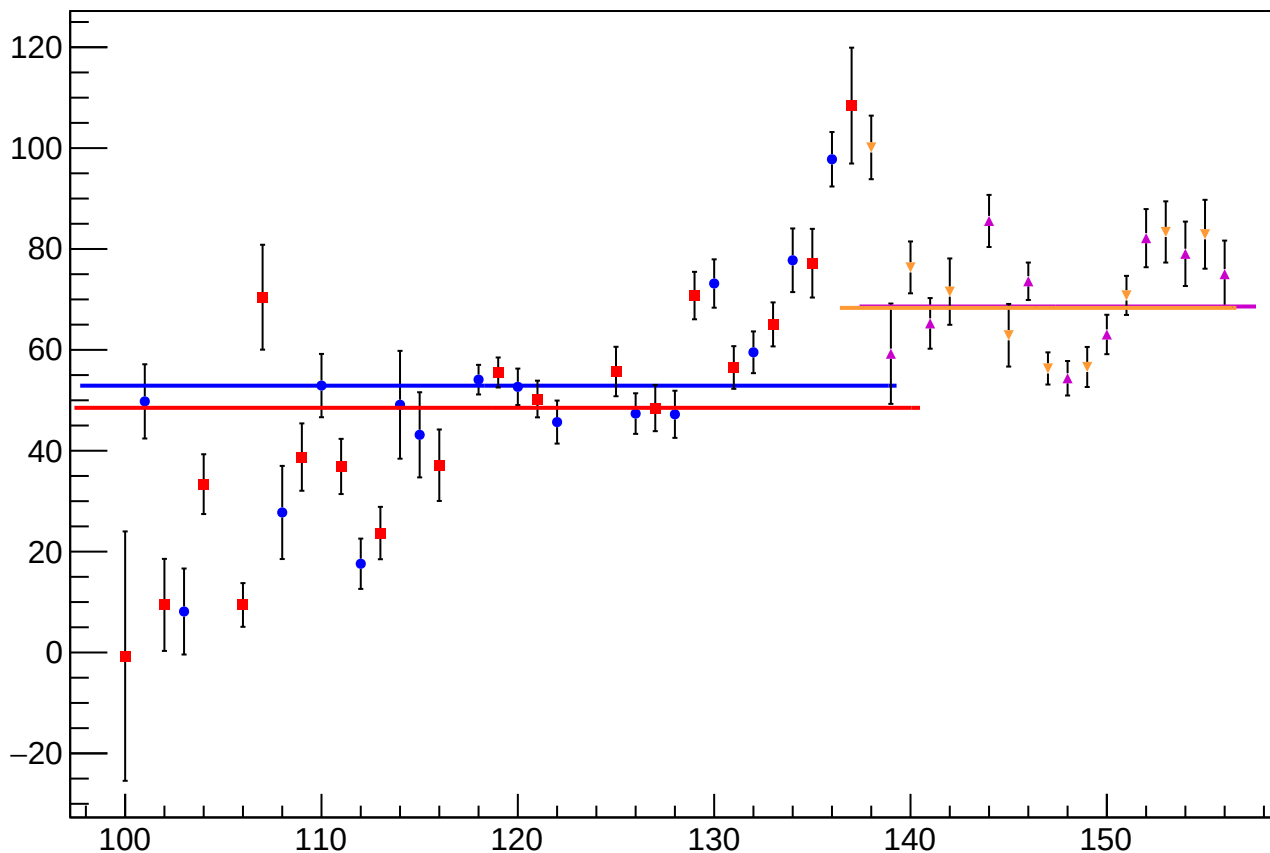
Right: 191.037+/-0.836 χ^2/NDF : 8986.6/33

In: 218.823+/-1.038 χ^2/NDF :3185.9/24

Out: 198.848+/-0.990 χ^2/NDF :7635.0/26

All: 208.363+/-0.716 χ^2/NDF : 11015.0/51

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 52.899+/-1.242 χ^2/NDF : 198.3/15

Left Out: 68.326+/-1.603 χ^2/NDF : 62.9/8

Right Out: 48.510+/-1.214 χ^2/NDF : 240.0/17

Left In: 68.598+/-1.605 χ^2/NDF : 42.4/8

Left: 68.462+/-1.134 χ^2/NDF : 105.3/17

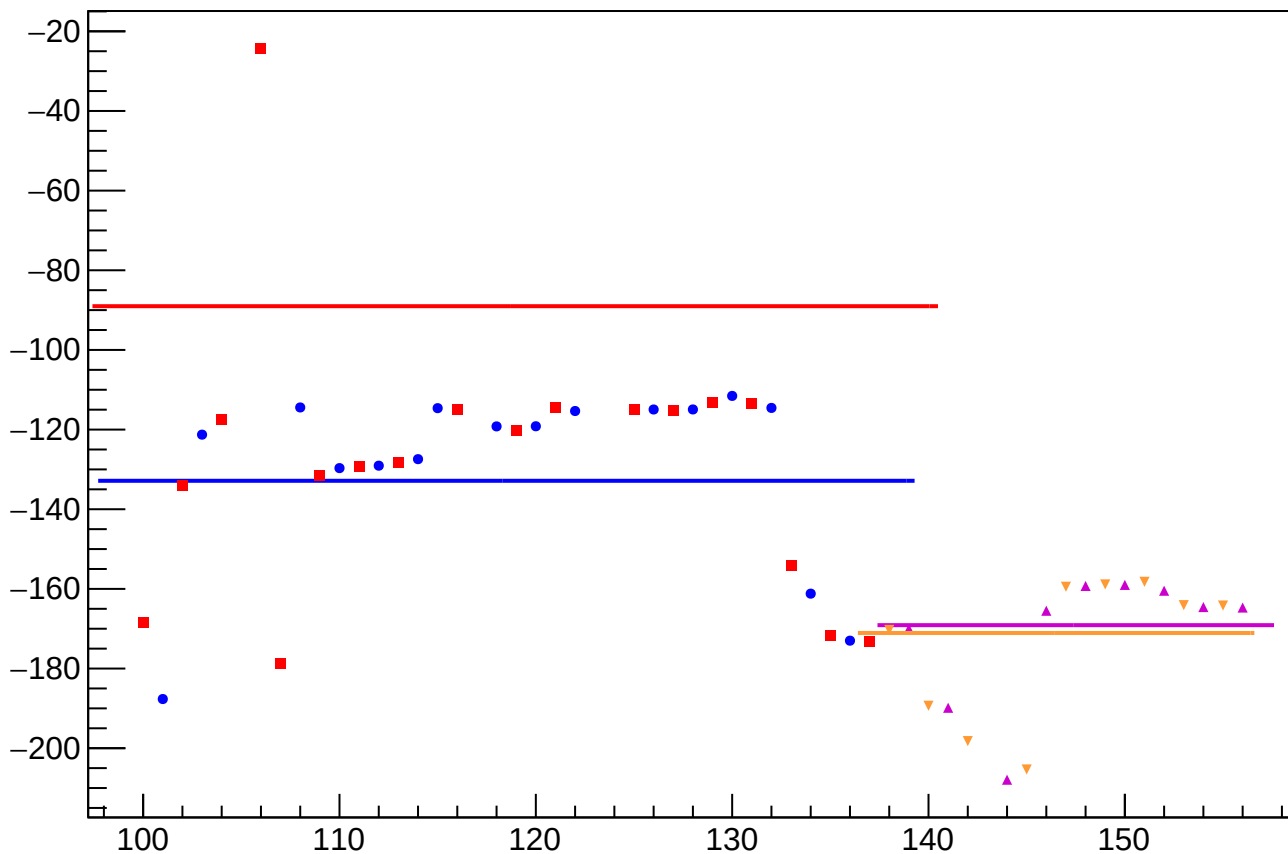
Right: 50.656+/-0.868 χ^2/NDF : 444.7/33

In: 58.776+/-0.982 χ^2/NDF : 300.6/24

Out: 55.734+/-0.968 χ^2/NDF : 400.0/26

All: 57.233+/-0.689 χ^2/NDF : 705.5/51

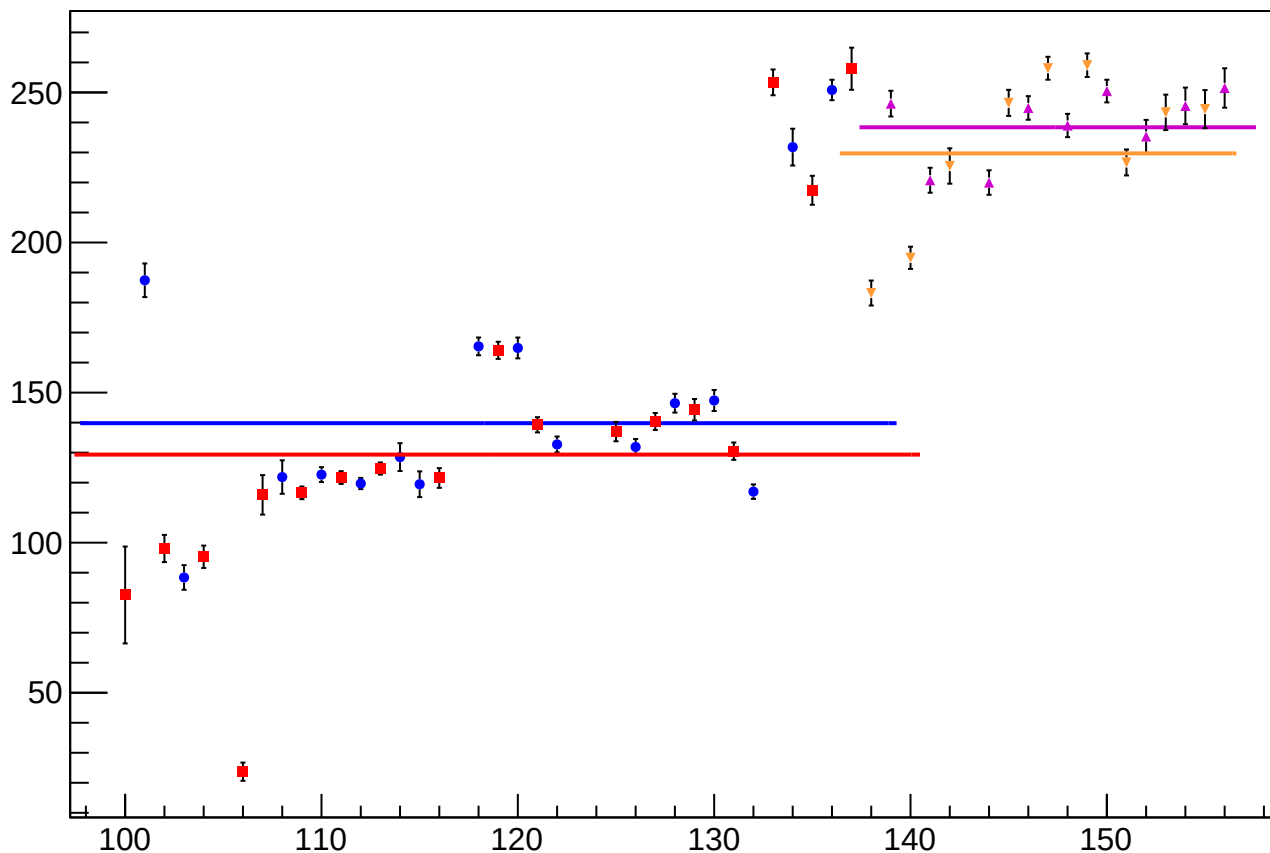
reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -132.856 ± 0.081 $\chi^2/\text{NDF}: 93497.9/15$
 Left Out: -171.067 ± 0.080 $\chi^2/\text{NDF}: 40717.6/8$
 Right Out: -89.020 ± 0.064 $\chi^2/\text{NDF}: 728110.1/17$
 Left In: -169.105 ± 0.076 $\chi^2/\text{NDF}: 34459.9/8$

Left: -170.037 ± 0.055 $\chi^2/\text{NDF}: 75493.5/17$
 Right: -105.832 ± 0.050 $\chi^2/\text{NDF}: 1000593.4/33$
 In: -152.192 ± 0.056 $\chi^2/\text{NDF}: 233864.5/24$
 Out: -121.157 ± 0.050 $\chi^2/\text{NDF}: 1409196.3/26$
 All: -135.056 ± 0.037 $\chi^2/\text{NDF}: 1815285.5/51$

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: 229.693 $\pm$ 1.485 χ^2 /NDF:351.6/8

Right Out: 129.344 $\pm$ 0.734 χ^2 /NDF: 3123.5/17

Left In: 238.394 $\pm$ 1.480 χ^2 /NDF:60.3/8

Left: 234.059 $\pm$ 1.048 χ^2 /NDF: 429.1/17

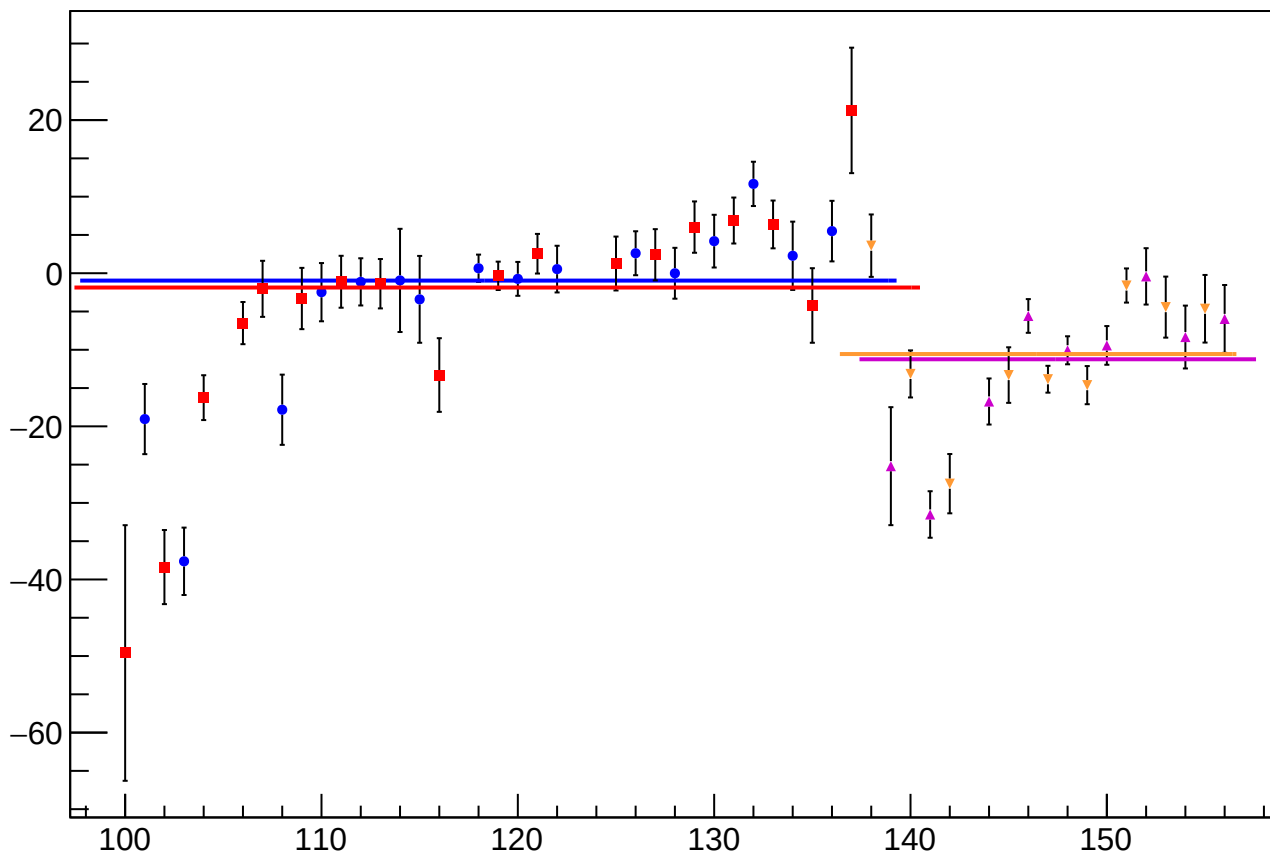
Right: 134.231 $\pm$ 0.536 χ^2 /NDF: 5183.3/33

In: 161.439 $\pm$ 0.693 χ^2 /NDF:5489.2/24

Out: 149.049 $\pm$ 0.658 χ^2 /NDF:7142.7/26

All: 154.923 $\pm$ 0.477 χ^2 /NDF: 12799.9/51

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.963 ± 0.808 $\chi^2/\text{NDF}: 126.1/15$

Left Out: -10.555 ± 0.949 $\chi^2/\text{NDF}: 58.9/8$

Right Out: -1.869 ± 0.784 $\chi^2/\text{NDF}: 133.2/17$

Left In: -11.240 ± 0.962 $\chi^2/\text{NDF}: 69.3/8$

Left: -10.893 ± 0.675 $\chi^2/\text{NDF}: 128.4/17$

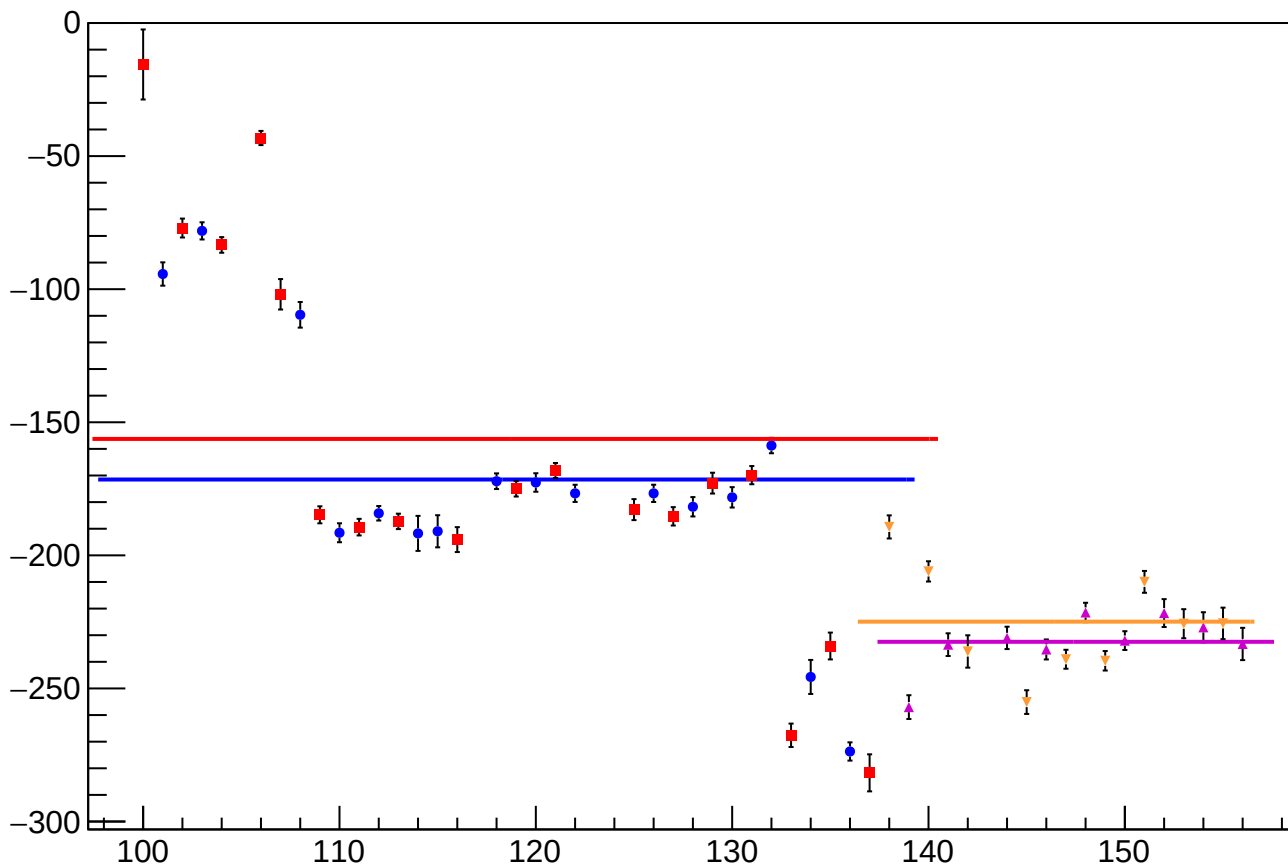
Right: -1.430 ± 0.563 $\chi^2/\text{NDF}: 259.9/33$

In: -5.217 ± 0.619 $\chi^2/\text{NDF}: 262.3/24$

Out: -5.391 ± 0.604 $\chi^2/\text{NDF}: 241.9/26$

All: -5.306 ± 0.432 $\chi^2/\text{NDF}: 504.2/51$

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.506 ± 0.907 $\chi^2/\text{NDF}: 2442.8/15$

Left Out: -224.912 ± 1.452 $\chi^2/\text{NDF}: 186.4/8$

Right Out: -156.260 ± 0.847 $\chi^2/\text{NDF}: 4904.3/17$

Left In: -232.481 ± 1.439 $\chi^2/\text{NDF}: 45.4/8$

Left: -228.731 ± 1.022 $\chi^2/\text{NDF}: 245.5/17$

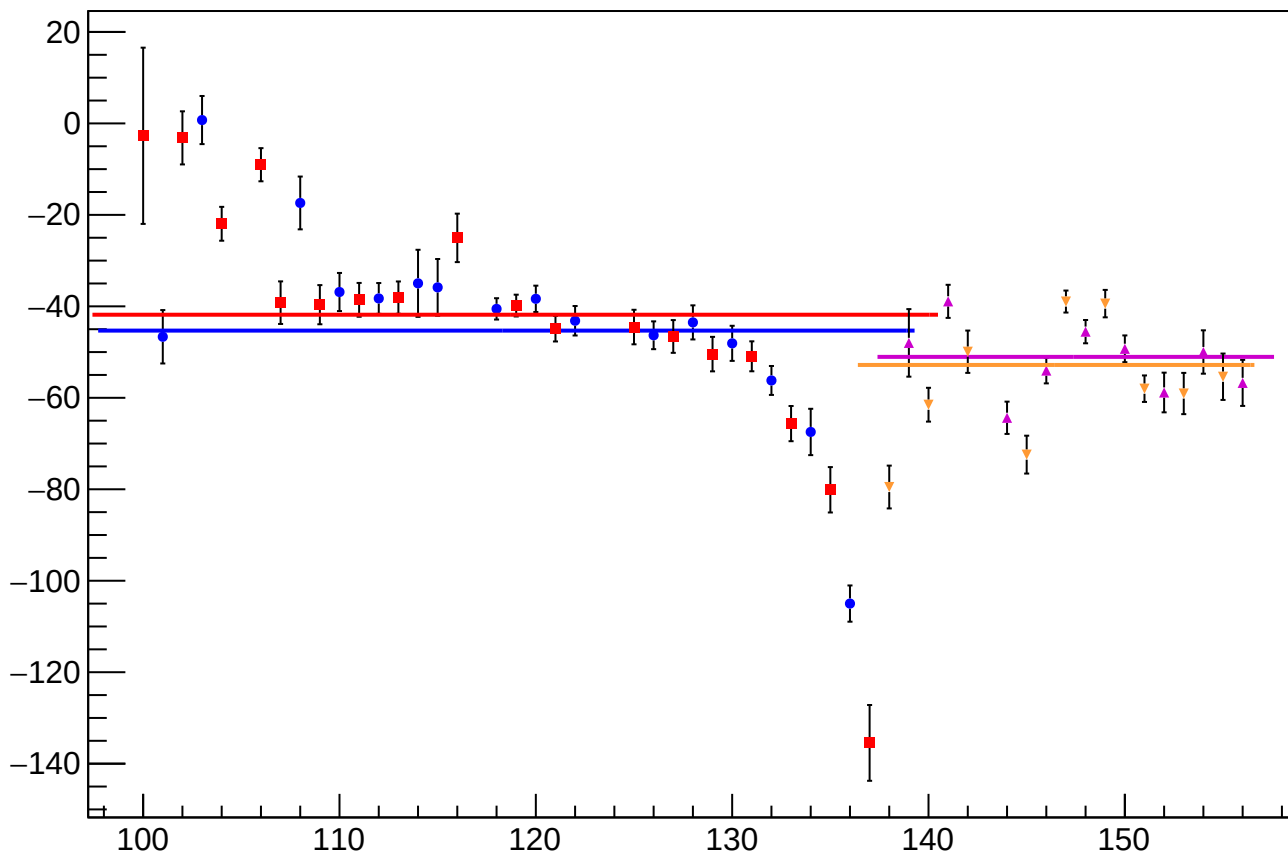
Right: -163.367 ± 0.619 $\chi^2/\text{NDF}: 7498.1/33$

In: -188.845 ± 0.767 $\chi^2/\text{NDF}: 3773.9/24$

Out: -173.707 ± 0.732 $\chi^2/\text{NDF}: 6759.1/26$

All: -180.920 ± 0.529 $\chi^2/\text{NDF}: 10736.8/51$

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -45.304 ± 0.938 $\chi^2/\text{NDF}: 382.0/15$

Left Out: -52.815 ± 1.182 $\chi^2/\text{NDF}: 119.5/8$

Right Out: -41.832 ± 0.909 $\chi^2/\text{NDF}: 414.2/17$

Left In: -51.049 ± 1.186 $\chi^2/\text{NDF}: 36.4/8$

Left: -51.935 ± 0.838 $\chi^2/\text{NDF}: 157.0/17$

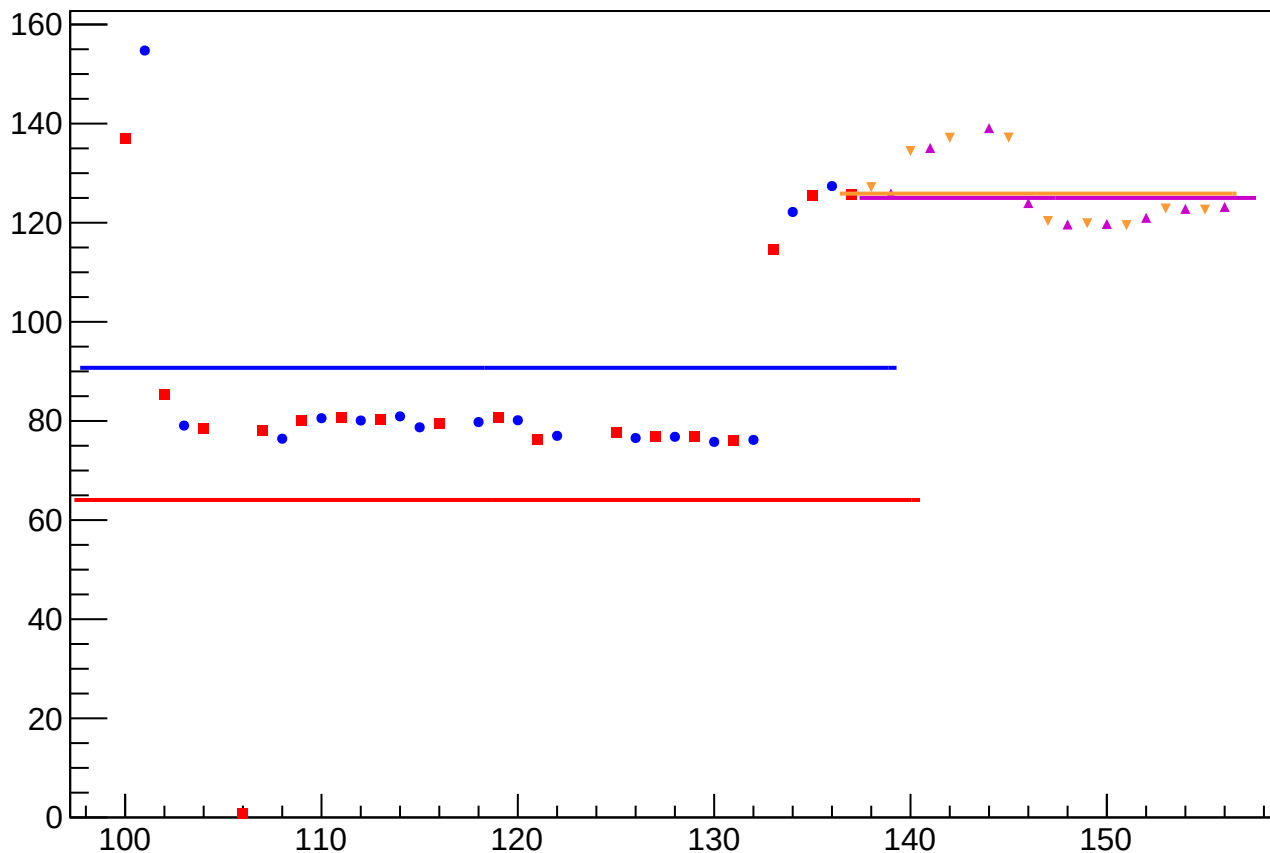
Right: -43.515 ± 0.653 $\chi^2/\text{NDF}: 803.4/33$

In: -47.512 ± 0.736 $\chi^2/\text{NDF}: 432.9/24$

Out: -45.913 ± 0.721 $\chi^2/\text{NDF}: 587.9/26$

All: -46.697 ± 0.515 $\chi^2/\text{NDF}: 1023.2/51$

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: 125.877+/-0.059 χ^2/NDF :13529.3/8

Right Out: 64.059+/-0.049 χ^2/NDF : 660935.1/17

Left In: 125.002+/-0.056 χ^2/NDF :12347.9/8

Left: 125.421+/-0.041 χ^2/NDF : 25992.6/17

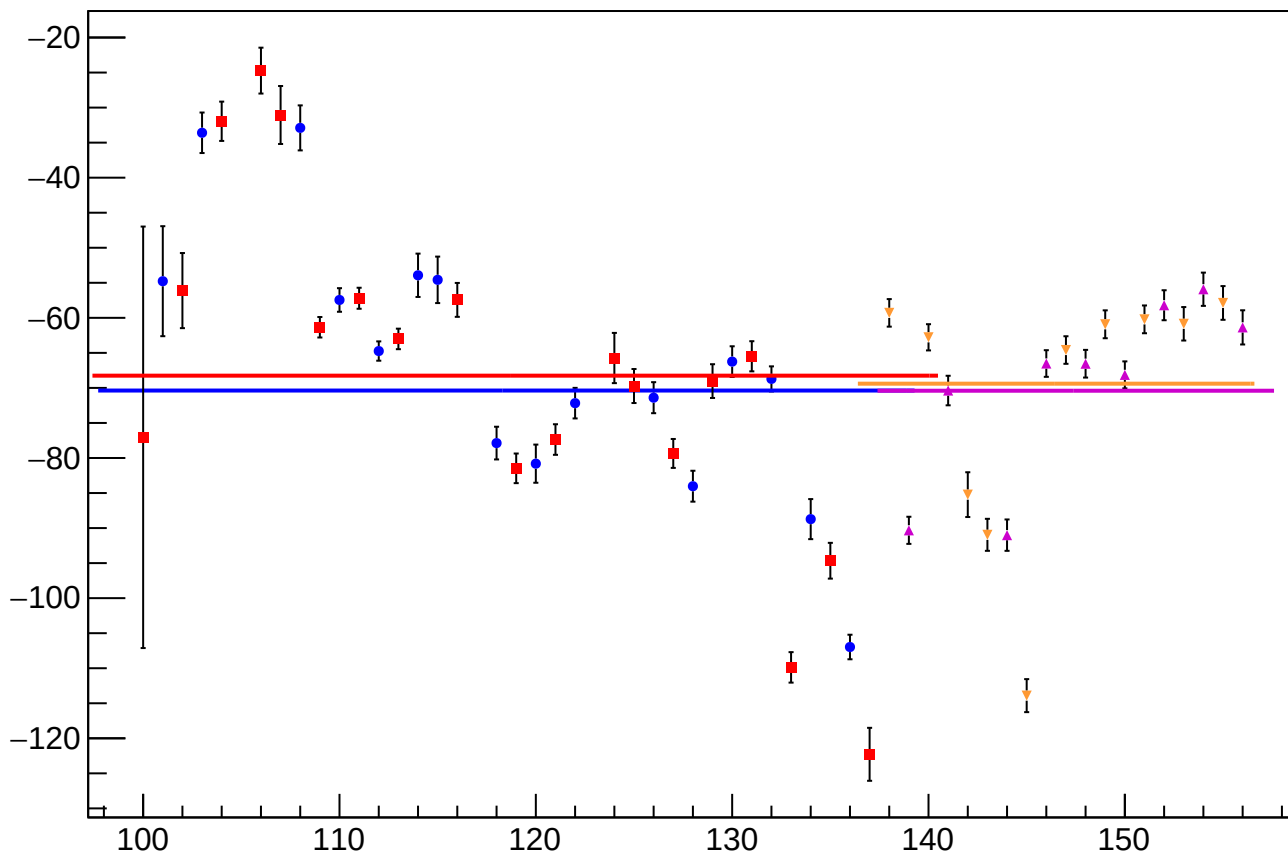
Right: 75.136+/-0.038 χ^2/NDF : 943639.1/33

In: 108.516+/-0.041 χ^2/NDF :351782.4/24

Out: 89.562+/-0.038 χ^2/NDF :1323239.5/26

All: 98.368+/-0.028 χ^2/NDF : 1791932.7/51

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -70.374 ± 0.558 $\chi^2/\text{NDF}: 974.9/15$

Left Out: -69.396 ± 0.686 $\chi^2/\text{NDF}: 591.0/9$

Right Out: -68.252 ± 0.527 $\chi^2/\text{NDF}: 1306.0/18$

Left In: -70.402 ± 0.697 $\chi^2/\text{NDF}: 283.5/8$

Left: -69.890 ± 0.489 $\chi^2/\text{NDF}: 875.6/18$

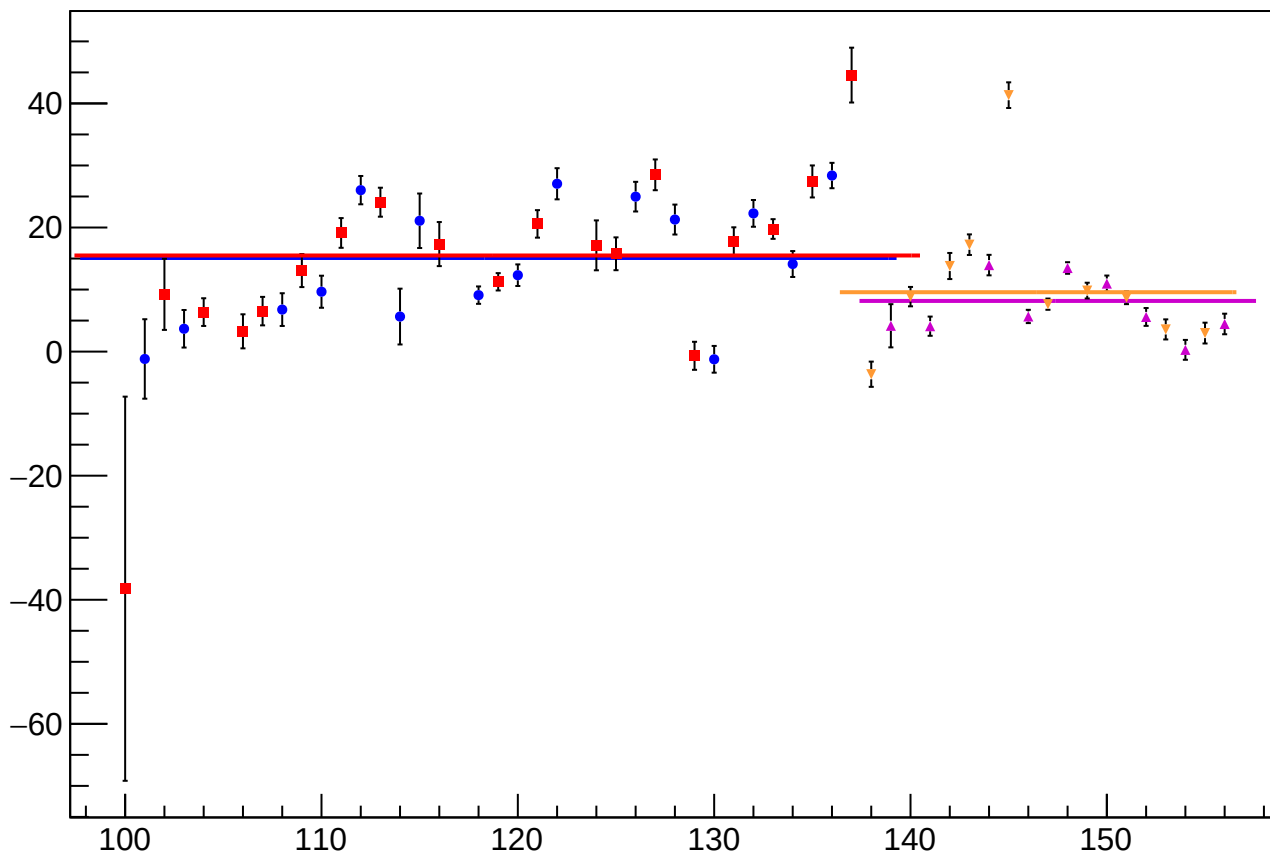
Right: -69.252 ± 0.383 $\chi^2/\text{NDF}: 2288.5/34$

In: -70.385 ± 0.435 $\chi^2/\text{NDF}: 1258.4/24$

Out: -68.676 ± 0.418 $\chi^2/\text{NDF}: 1898.7/28$

All: -69.495 ± 0.301 $\chi^2/\text{NDF}: 3165.2/53$

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: 9.574 $\pm$ 0.448 χ^2 /NDF:337.9/9

Right Out: 15.491 $\pm$ 0.558 χ^2 /NDF: 239.3/18

Left In: 8.167 $\pm$ 0.460 χ^2 /NDF:95.5/8

Left: 8.890 $\pm$ 0.321 χ^2 /NDF: 438.3/18

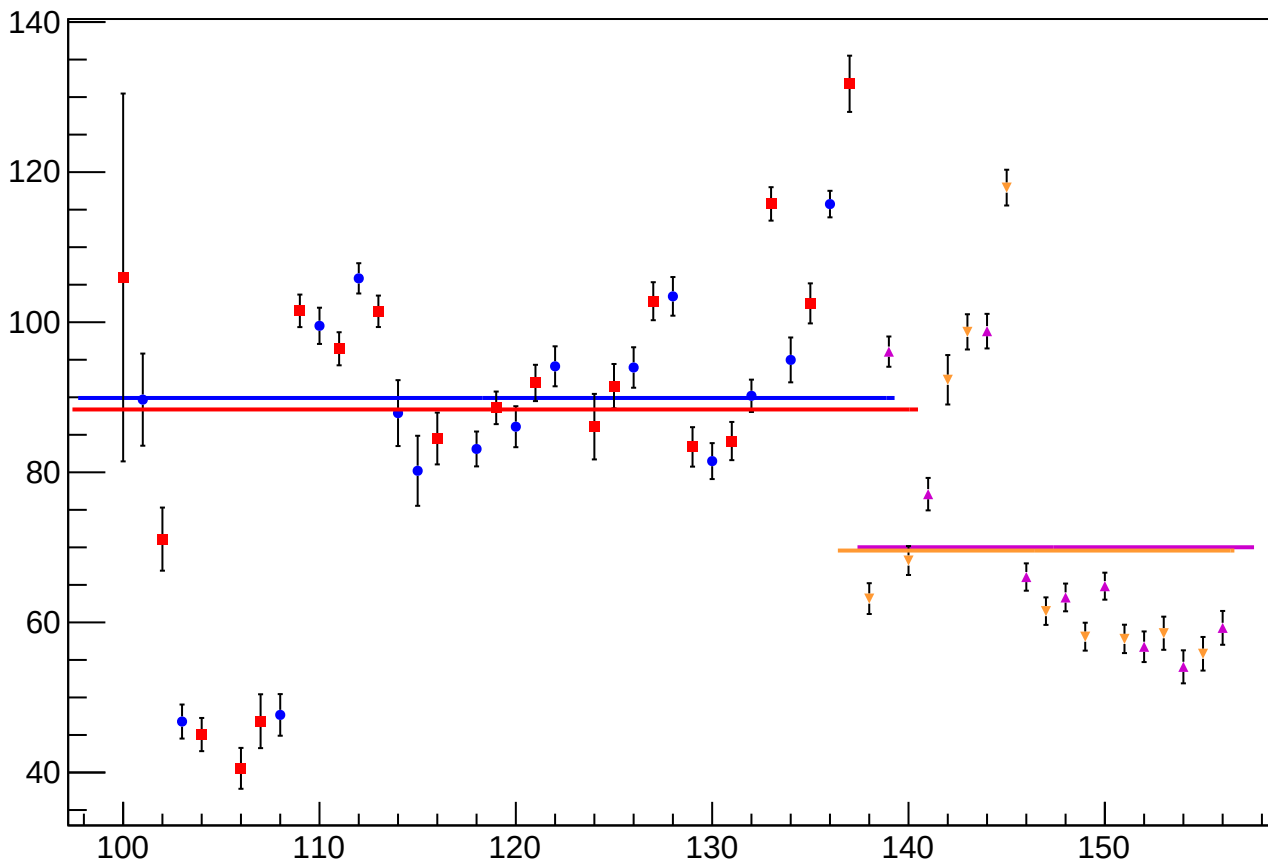
Right: 15.300 $\pm$ 0.402 χ^2 /NDF: 482.0/34

In: 10.836 $\pm$ 0.361 χ^2 /NDF:425.3/24

Out: 11.890 $\pm$ 0.349 χ^2 /NDF:645.6/28

All: 11.380 $\pm$ 0.251 χ^2 /NDF: 1075.3/53

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: 69.576 $\pm$ 0.670 χ^2 /NDF: 782.4/9

Right Out: 88.375 $\pm$ 0.617 χ^2 /NDF: 1288.9/18

Left In: 70.014 $\pm$ 0.675 χ^2 /NDF: 477.3/8

Left: 69.793 $\pm$ 0.476 χ^2 /NDF: 1260.0/18

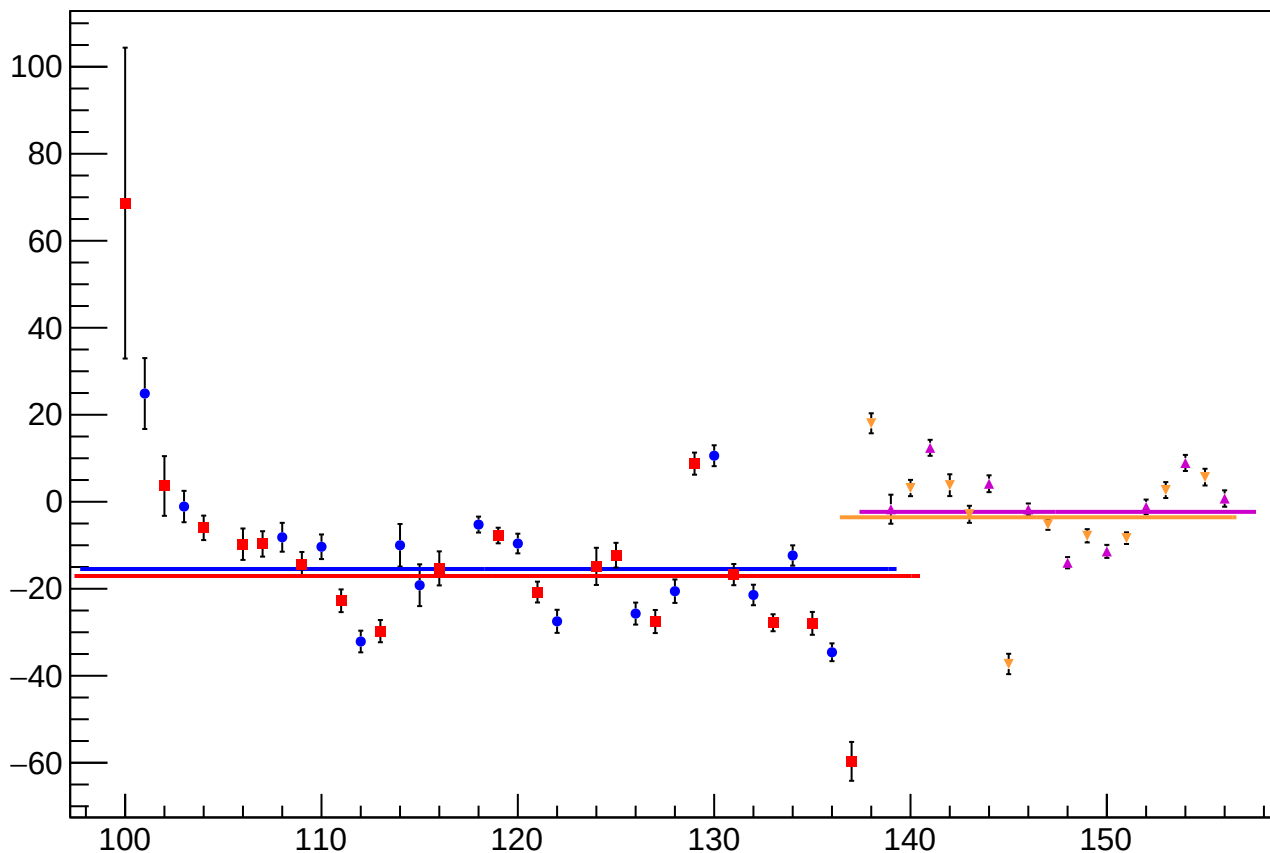
Right: 89.113 $\pm$ 0.445 χ^2 /NDF: 2239.5/34

In: 80.479 $\pm$ 0.465 χ^2 /NDF: 1881.9/24

Out: 79.742 $\pm$ 0.454 χ^2 /NDF: 2497.0/28

All: 80.102 $\pm$ 0.325 χ^2 /NDF: 4380.2/53

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.454 ± 0.665 χ^2/NDF : 386.5/15

Left Out: -3.569 ± 0.552 χ^2/NDF : 374.3/9

Right Out: -17.066 ± 0.644 χ^2/NDF : 361.0/18

Left In: -2.322 ± 0.563 χ^2/NDF : 233.9/8

Left: -2.957 ± 0.394 χ^2/NDF : 610.7/18

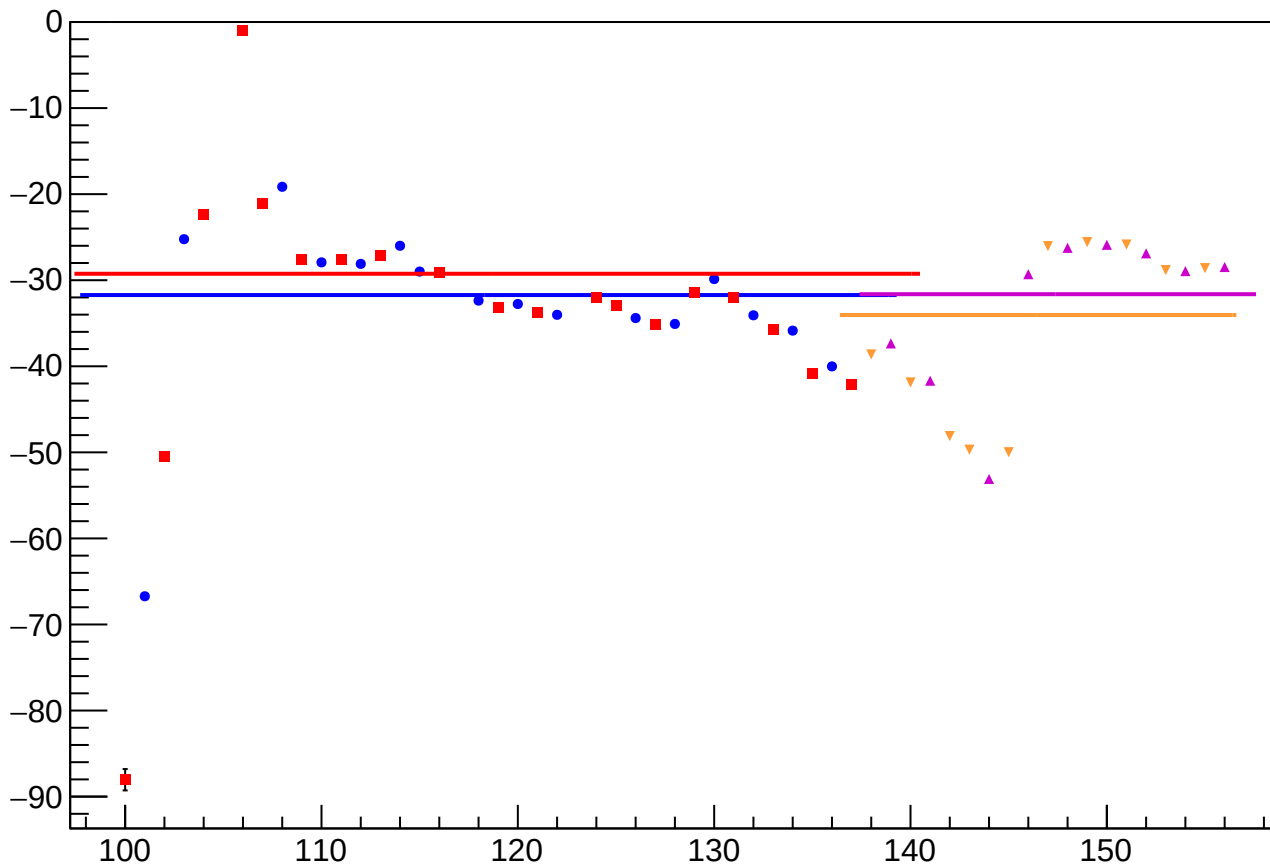
Right: -16.287 ± 0.463 χ^2/NDF : 750.5/34

In: -7.797 ± 0.430 χ^2/NDF : 847.5/24

Out: -9.291 ± 0.419 χ^2/NDF : 988.6/28

All: -8.563 ± 0.300 χ^2/NDF : 1842.3/53

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -31.725 ± 0.039 $\chi^2/\text{NDF}: 39636.6/15$

Left Out: -34.042 ± 0.027 $\chi^2/\text{NDF}: 120626.9/9$

Right Out: -29.250 ± 0.038 $\chi^2/\text{NDF}: 95235.9/18$

Left In: -31.625 ± 0.026 $\chi^2/\text{NDF}: 82214.0/8$

Left: -32.794 ± 0.019 $\chi^2/\text{NDF}: 207100.7/18$

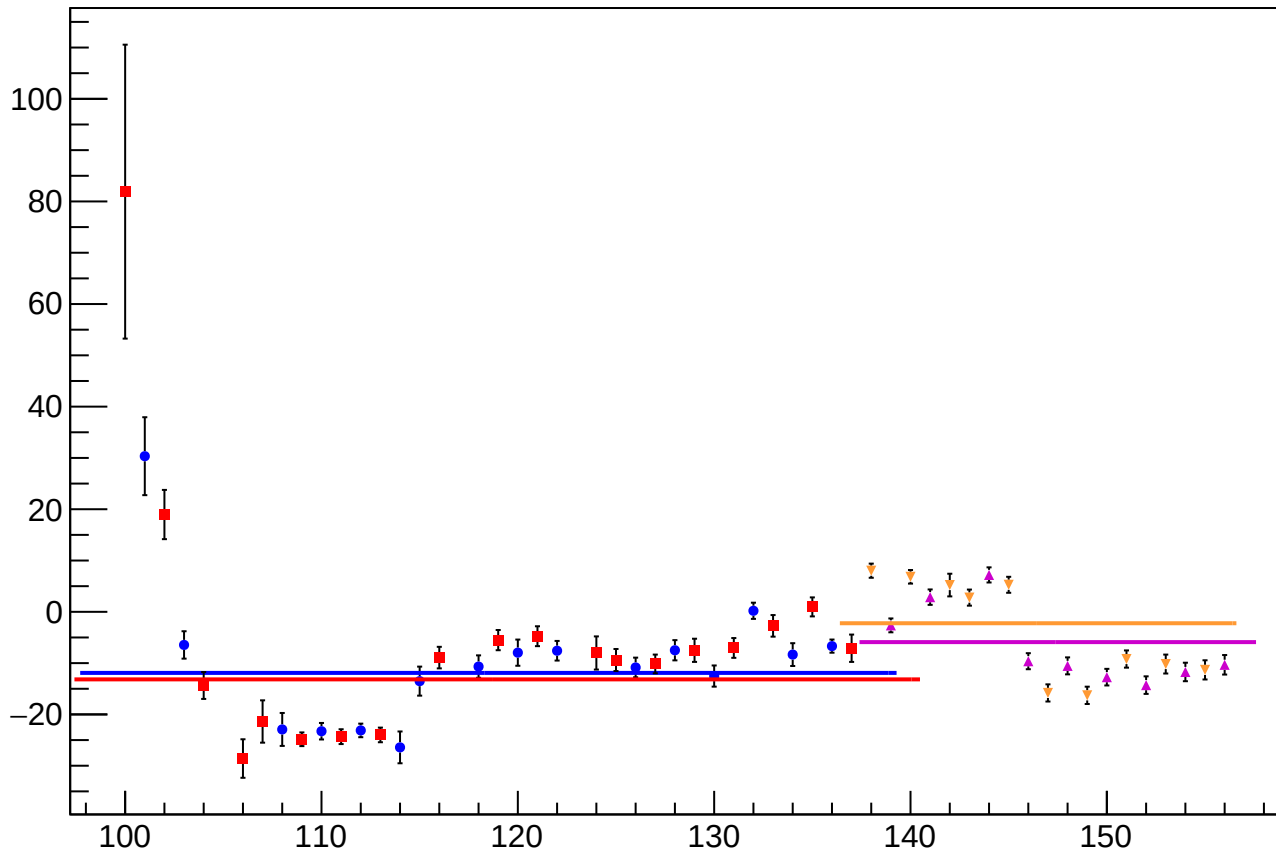
Right: -30.485 ± 0.027 $\chi^2/\text{NDF}: 136941.1/34$

In: -31.656 ± 0.021 $\chi^2/\text{NDF}: 121855.2/24$

Out: -32.489 ± 0.022 $\chi^2/\text{NDF}: 226374.4/28$

All: -32.063 ± 0.015 $\chi^2/\text{NDF}: 348969.9/53$

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.906 ± 0.497 $\chi^2/\text{NDF}: 282.1/15$

Left Out: -2.226 ± 0.516 $\chi^2/\text{NDF}: 341.3/9$

Right Out: -13.169 ± 0.480 $\chi^2/\text{NDF}: 421.5/18$

Left In: -5.904 ± 0.532 $\chi^2/\text{NDF}: 189.9/8$

Left: -4.007 ± 0.370 $\chi^2/\text{NDF}: 555.8/18$

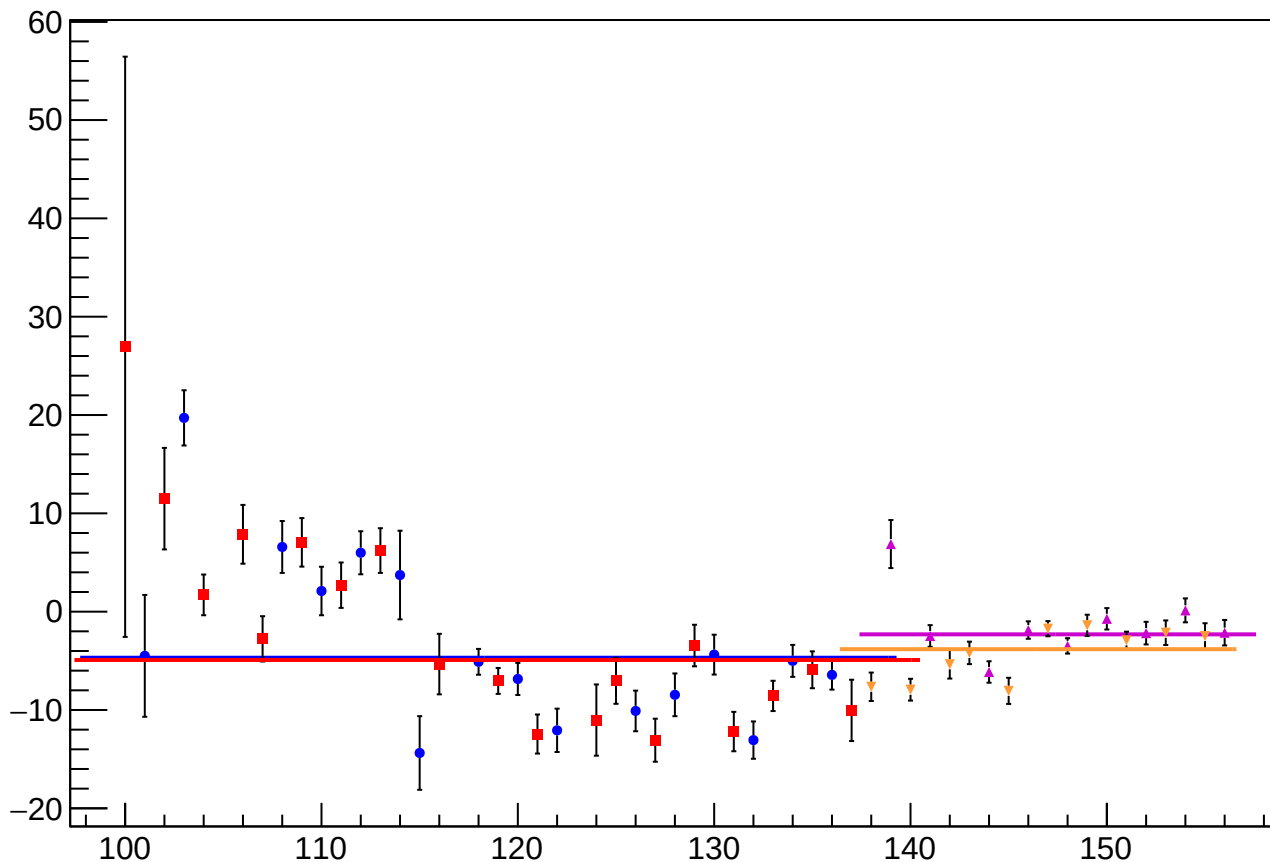
Right: -12.559 ± 0.345 $\chi^2/\text{NDF}: 706.9/34$

In: -9.111 ± 0.363 $\chi^2/\text{NDF}: 540.0/24$

Out: -8.087 ± 0.351 $\chi^2/\text{NDF}: 1004.1/28$

All: -8.582 ± 0.252 $\chi^2/\text{NDF}: 1548.2/53$

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: -3.815 ± 0.350 χ^2/NDF : 48.5/9

Right Out: -4.913 ± 0.513 χ^2/NDF : 155.9/18

Left In: -2.308 ± 0.363 χ^2/NDF : 35.1/8

Left: -3.088 ± 0.252 χ^2/NDF : 92.6/18

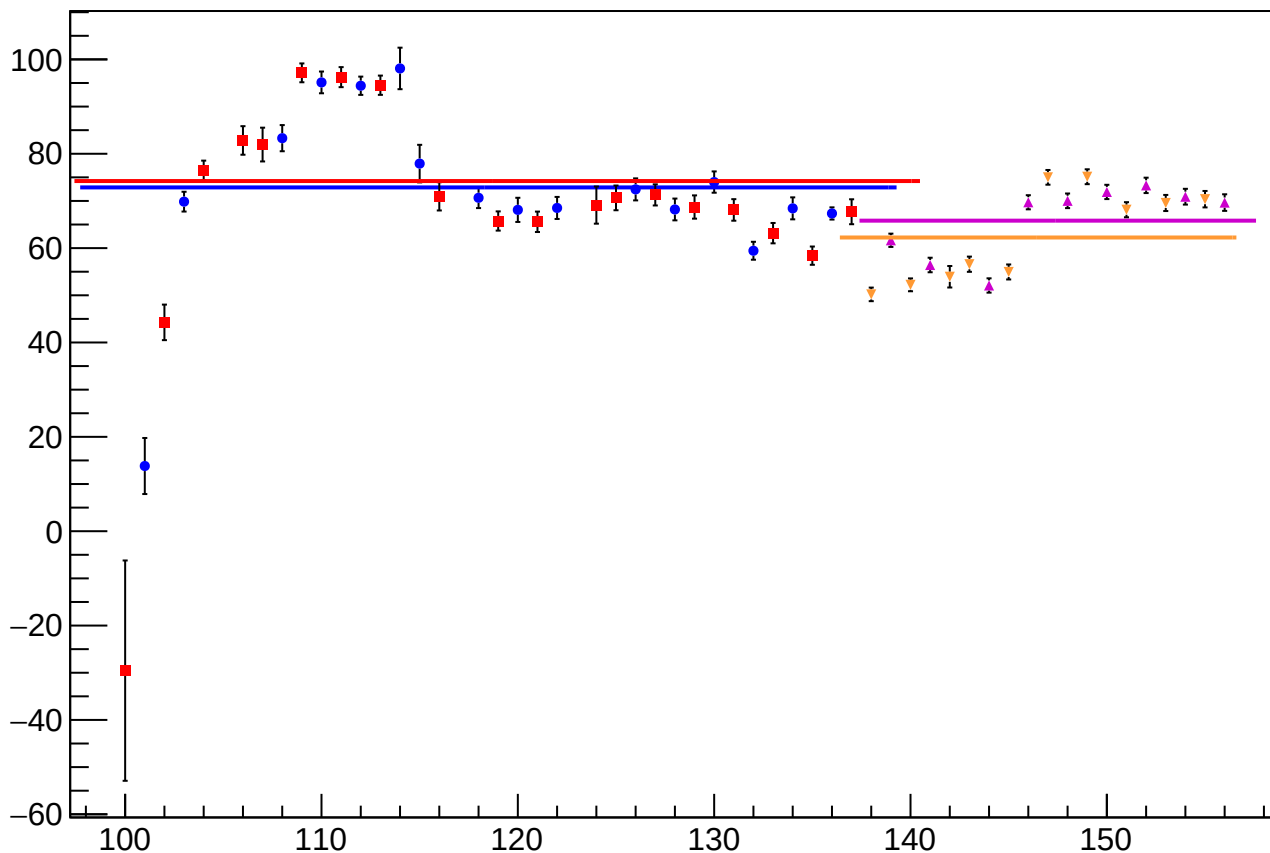
Right: -4.801 ± 0.364 χ^2/NDF : 335.0/34

In: -3.092 ± 0.297 χ^2/NDF : 228.3/24

Out: -4.164 ± 0.289 χ^2/NDF : 207.5/28

All: -3.642 ± 0.207 χ^2/NDF : 442.6/53

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 72.866 $\pm$ 0.565 χ^2 /NDF: 450.7/15

Left Out: 62.252 $\pm$ 0.508 χ^2 /NDF:358.2/9

Right Out: 74.217 $\pm$ 0.562 χ^2 /NDF: 586.2/18

Left In: 65.821 $\pm$ 0.519 χ^2 /NDF:193.2/8

Left: 64.001 $\pm$ 0.363 χ^2 /NDF: 575.5/18

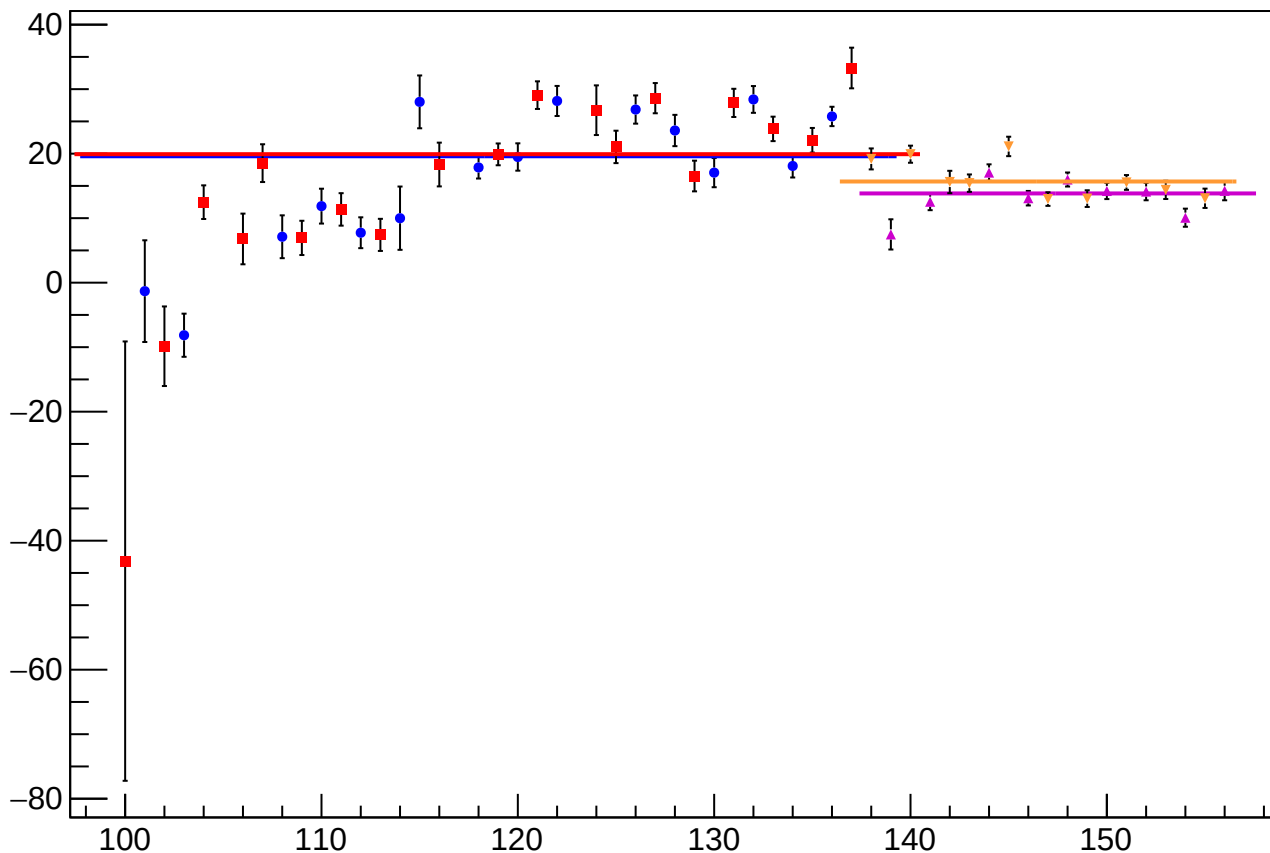
Right: 73.545 $\pm$ 0.399 χ^2 /NDF: 1039.8/34

In: 69.042 $\pm$ 0.382 χ^2 /NDF:728.2/24

Out: 67.634 $\pm$ 0.377 χ^2 /NDF:1193.5/28

All: 68.328 $\pm$ 0.268 χ^2 /NDF: 1928.5/53

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.598 $\pm$ 0.585 χ^2 /NDF: 196.0/15

Left Out: 15.685 $\pm$ 0.427 χ^2 /NDF: 42.6/9

Right Out: 19.919 $\pm$ 0.585 χ^2 /NDF: 181.3/18

Left In: 13.834 $\pm$ 0.440 χ^2 /NDF: 26.5/8

Left: 14.787 $\pm$ 0.307 χ^2 /NDF: 78.2/18

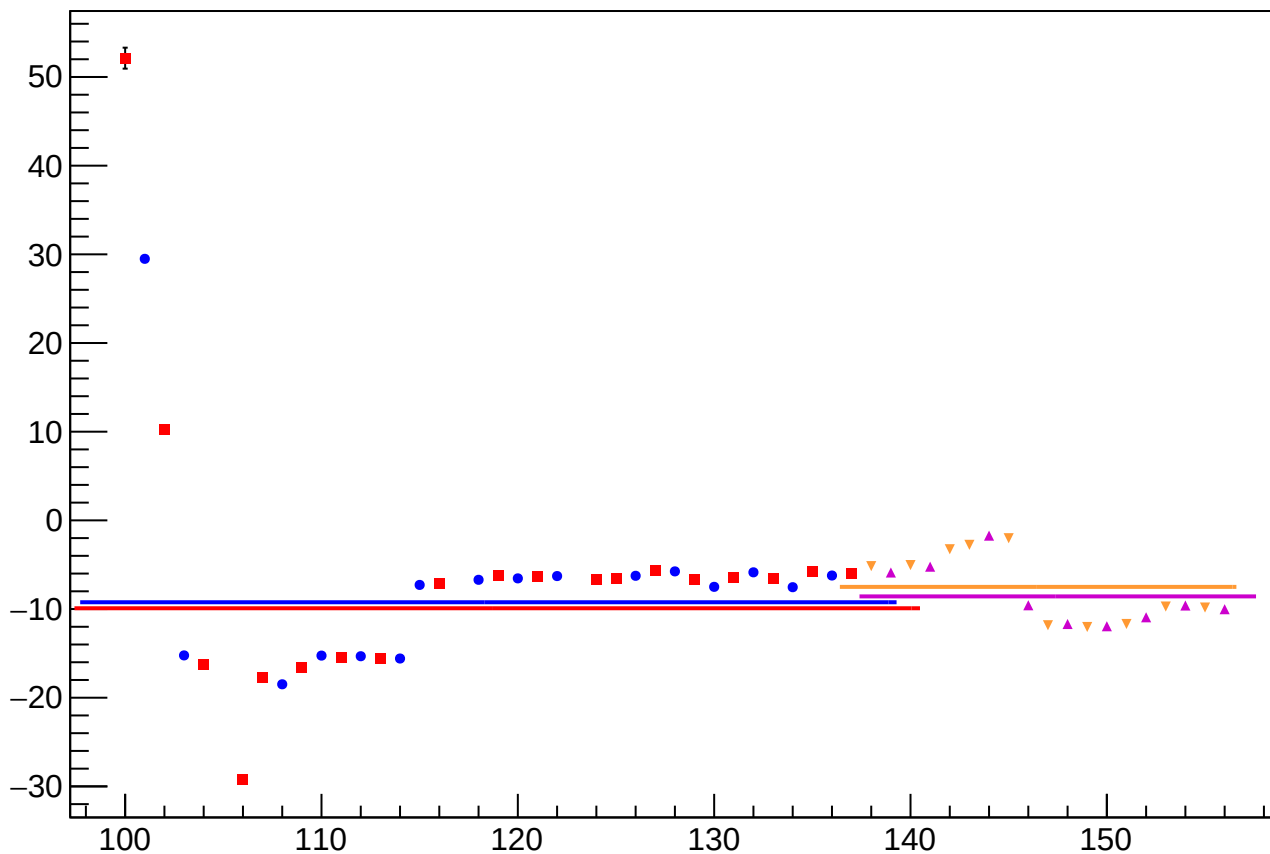
Right: 19.759 $\pm$ 0.414 χ^2 /NDF: 377.5/34

In: 15.917 $\pm$ 0.352 χ^2 /NDF: 284.4/24

Out: 17.158 $\pm$ 0.345 χ^2 /NDF: 258.1/28

All: 16.549 $\pm$ 0.246 χ^2 /NDF: 548.8/53

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -9.235 ± 0.033 $\chi^2/\text{NDF}: 31159.3/15$

Left Out: -7.501 ± 0.020 $\chi^2/\text{NDF}: 34200.2/9$

Right Out: -9.913 ± 0.034 $\chi^2/\text{NDF}: 53863.3/18$

Left In: -8.575 ± 0.020 $\chi^2/\text{NDF}: 24267.1/8$

Left: -8.048 ± 0.014 $\chi^2/\text{NDF}: 59908.6/18$

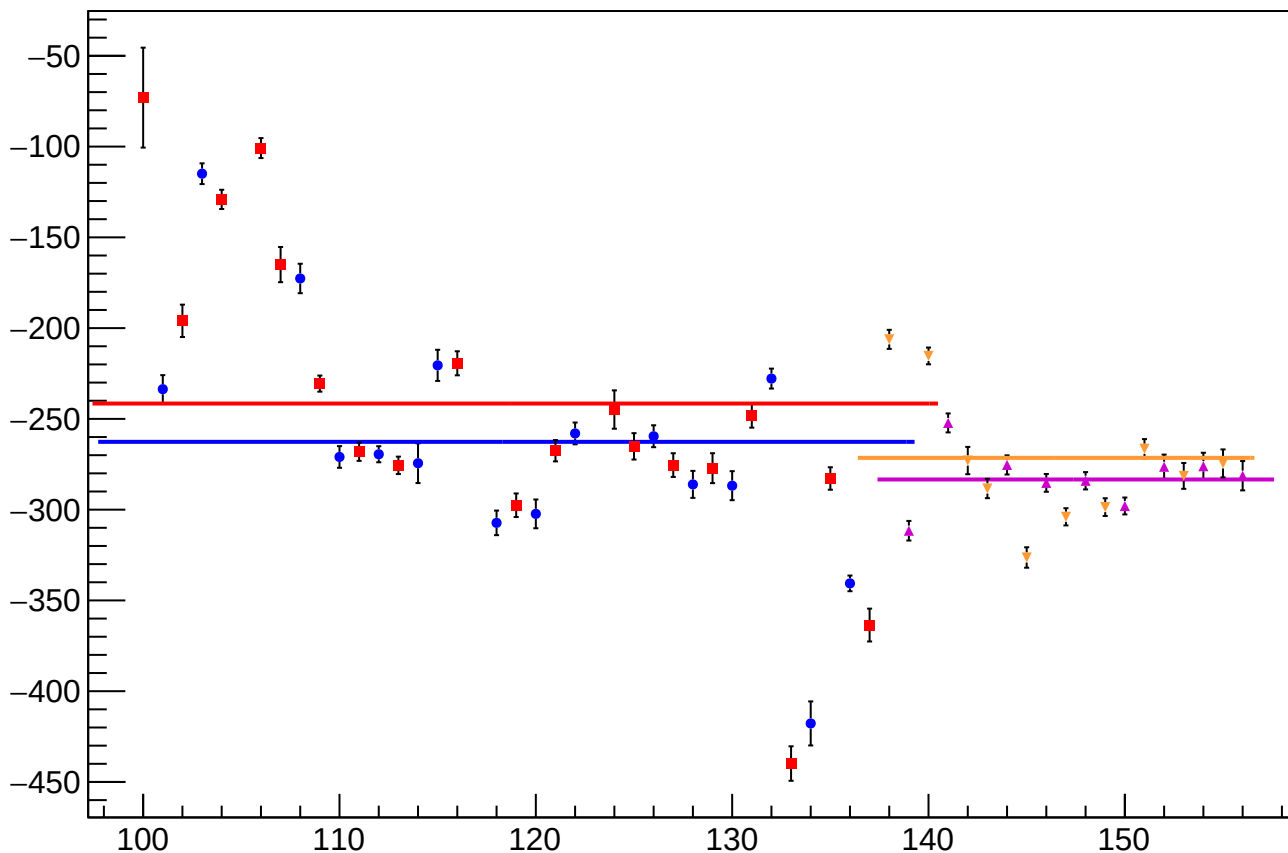
Right: -9.558 ± 0.024 $\chi^2/\text{NDF}: 85225.4/34$

In: -8.751 ± 0.017 $\chi^2/\text{NDF}: 55722.6/24$

Out: -8.118 ± 0.017 $\chi^2/\text{NDF}: 91714.3/28$

All: -8.442 ± 0.012 $\chi^2/\text{NDF}: 148115.7/53$

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -262.643 ± 1.614 $\chi^2/\text{NDF}: 1454.3/15$

Left Out: -271.460 ± 1.751 $\chi^2/\text{NDF}: 488.8/9$

Right Out: -241.548 ± 1.506 $\chi^2/\text{NDF}: 2138.6/18$

Left In: -283.375 ± 1.843 $\chi^2/\text{NDF}: 77.3/8$

Left: -277.112 ± 1.269 $\chi^2/\text{NDF}: 588.1/18$

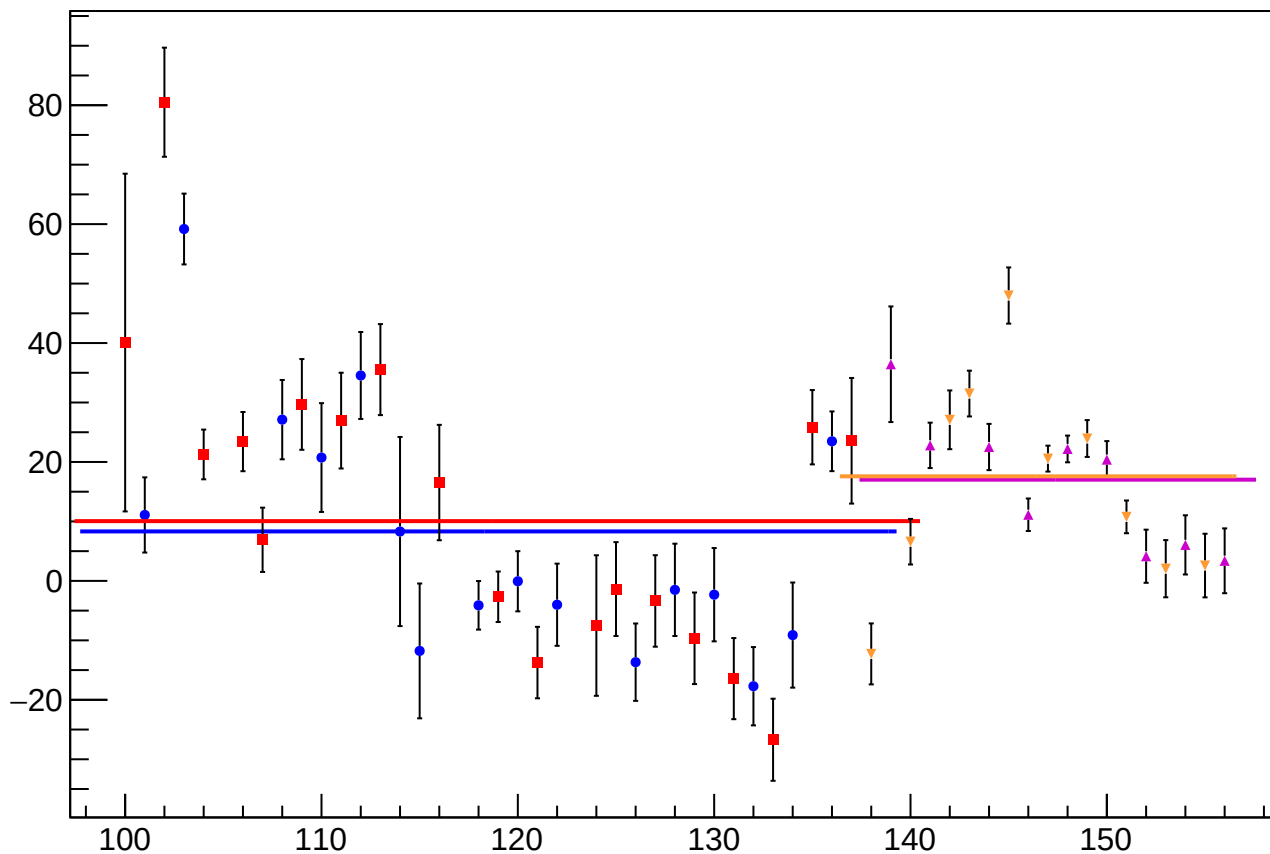
Right: -251.368 ± 1.101 $\chi^2/\text{NDF}: 3684.2/34$

In: -271.642 ± 1.214 $\chi^2/\text{NDF}: 1603.3/24$

Out: -254.270 ± 1.142 $\chi^2/\text{NDF}: 2795.1/28$

All: -262.423 ± 0.832 $\chi^2/\text{NDF}: 4507.0/53$

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: 17.587 ± 1.129 χ^2/NDF : 130.9/9

Right Out: 10.052 ± 1.539 χ^2/NDF : 187.4/18

Left In: 17.023 ± 1.192 χ^2/NDF : 38.8/8

Left: 17.320 ± 0.820 χ^2/NDF : 169.8/18

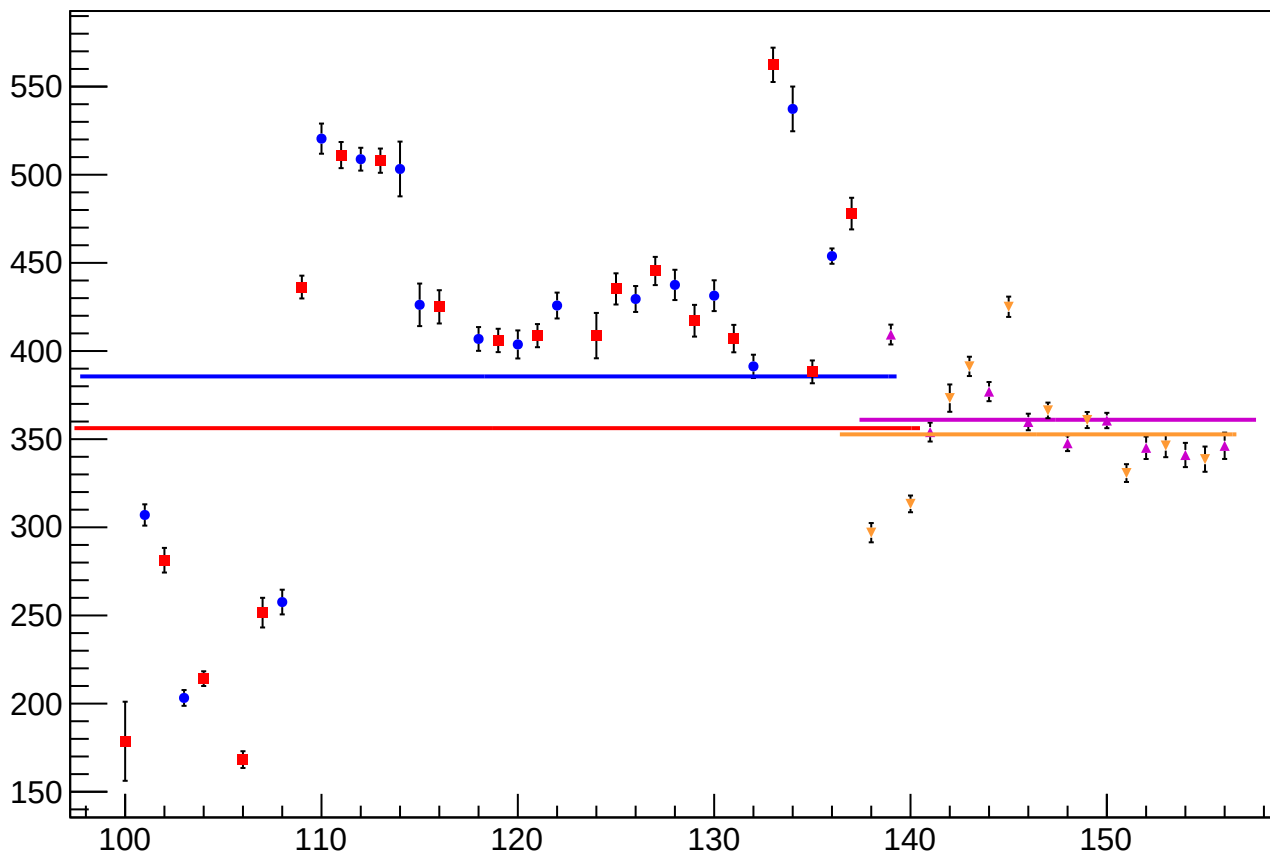
Right: 9.243 ± 1.123 χ^2/NDF : 345.7/34

In: 14.026 ± 0.965 χ^2/NDF : 214.8/24

Out: 14.950 ± 0.910 χ^2/NDF : 333.9/28

All: 14.515 ± 0.662 χ^2/NDF : 549.2/53

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 385.590 $\pm$ 1.742 χ^2 /NDF: 3373.1/15

Left Out: 352.726 $\pm$ 1.718 χ^2 /NDF:423.8/9

Right Out: 356.245 $\pm$ 1.647 χ^2 /NDF: 5270.3/18

Left In: 360.998 $\pm$ 1.789 χ^2 /NDF:111.6/8

Left: 356.694 $\pm$ 1.239 χ^2 /NDF: 546.6/18

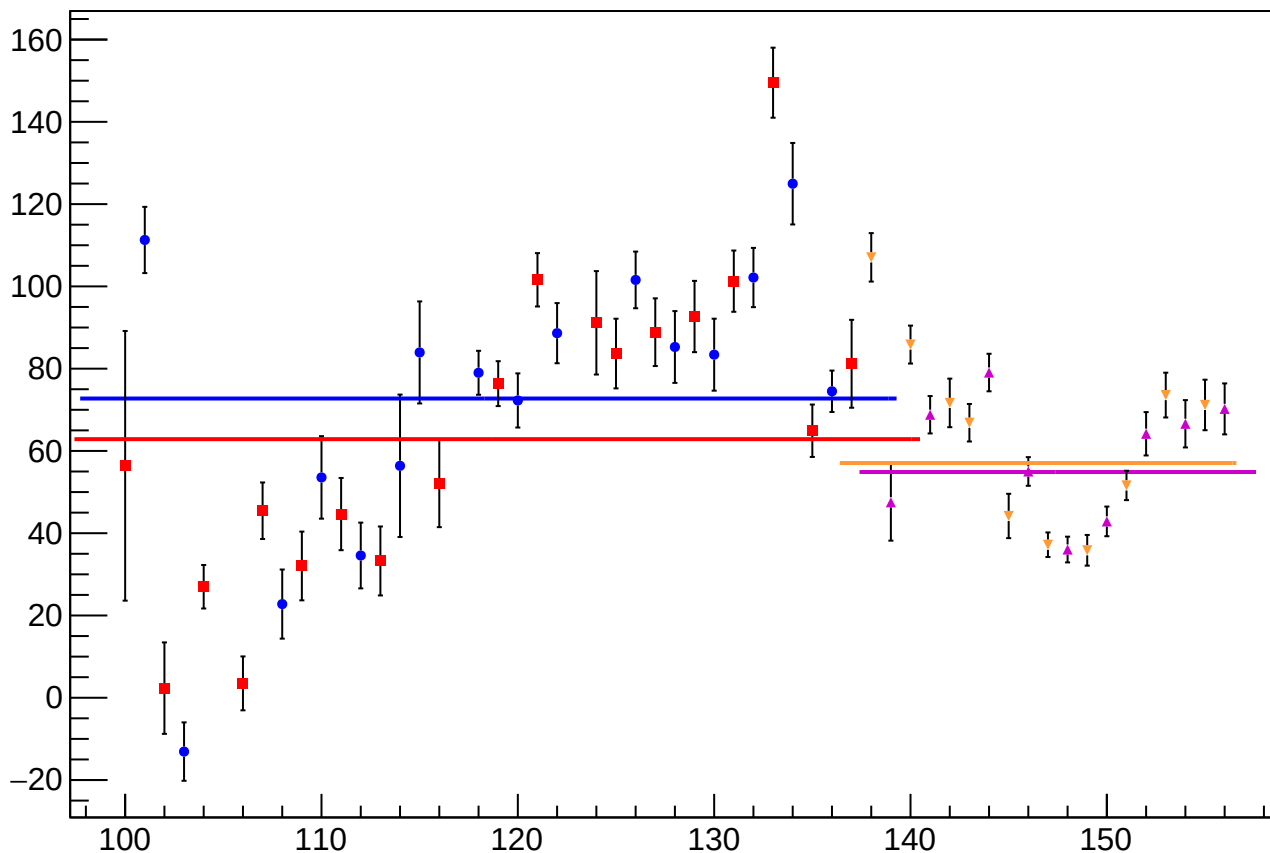
Right: 370.089 $\pm$ 1.197 χ^2 /NDF: 8793.2/34

In: 373.617 $\pm$ 1.248 χ^2 /NDF:3581.7/24

Out: 354.560 $\pm$ 1.189 χ^2 /NDF:5696.3/28

All: 363.624 $\pm$ 0.861 χ^2 /NDF: 9400.2/53

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: 57.058 $\pm$ 1.401 χ^2 /NDF:220.8/9

Right Out: 62.863 $\pm$ 1.795 χ^2 /NDF: 403.6/18

Left In: 54.875 $\pm$ 1.472 χ^2 /NDF:98.9/8

Left: 56.020 $\pm$ 1.015 χ^2 /NDF: 320.8/18

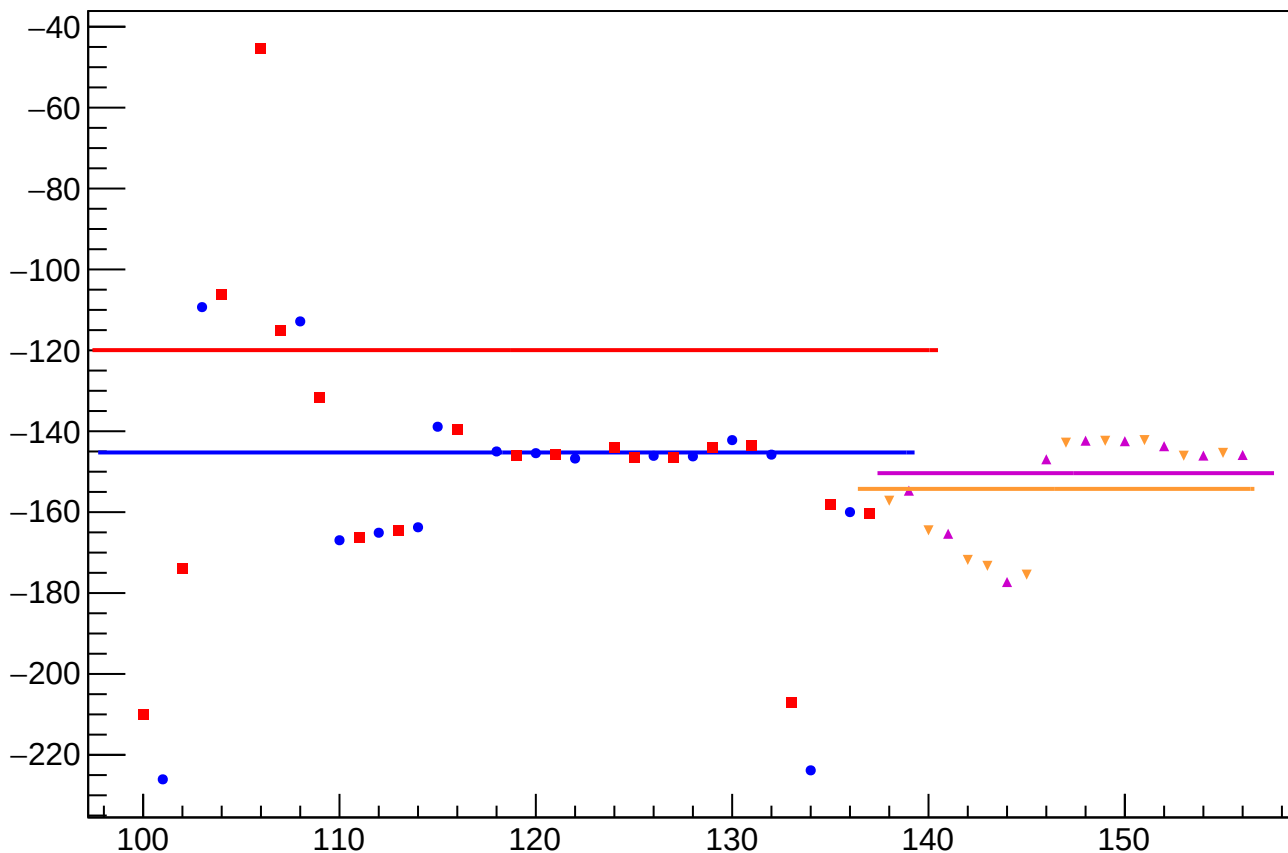
Right: 67.528 $\pm$ 1.304 χ^2 /NDF: 722.2/34

In: 61.587 $\pm$ 1.163 χ^2 /NDF:458.6/24

Out: 59.256 $\pm$ 1.104 χ^2 /NDF:630.9/28

All: 60.362 $\pm$ 0.801 χ^2 /NDF: 1091.6/53

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: -154.247+/-0.070 χ^2/NDF : 34647.6/9

Right Out: -119.947+/-0.089 χ^2/NDF : 270354.1/18

Left In: -150.362+/-0.070 χ^2/NDF : 23168.4/8

Left: -152.309+/-0.049 χ^2/NDF : 59365.9/18

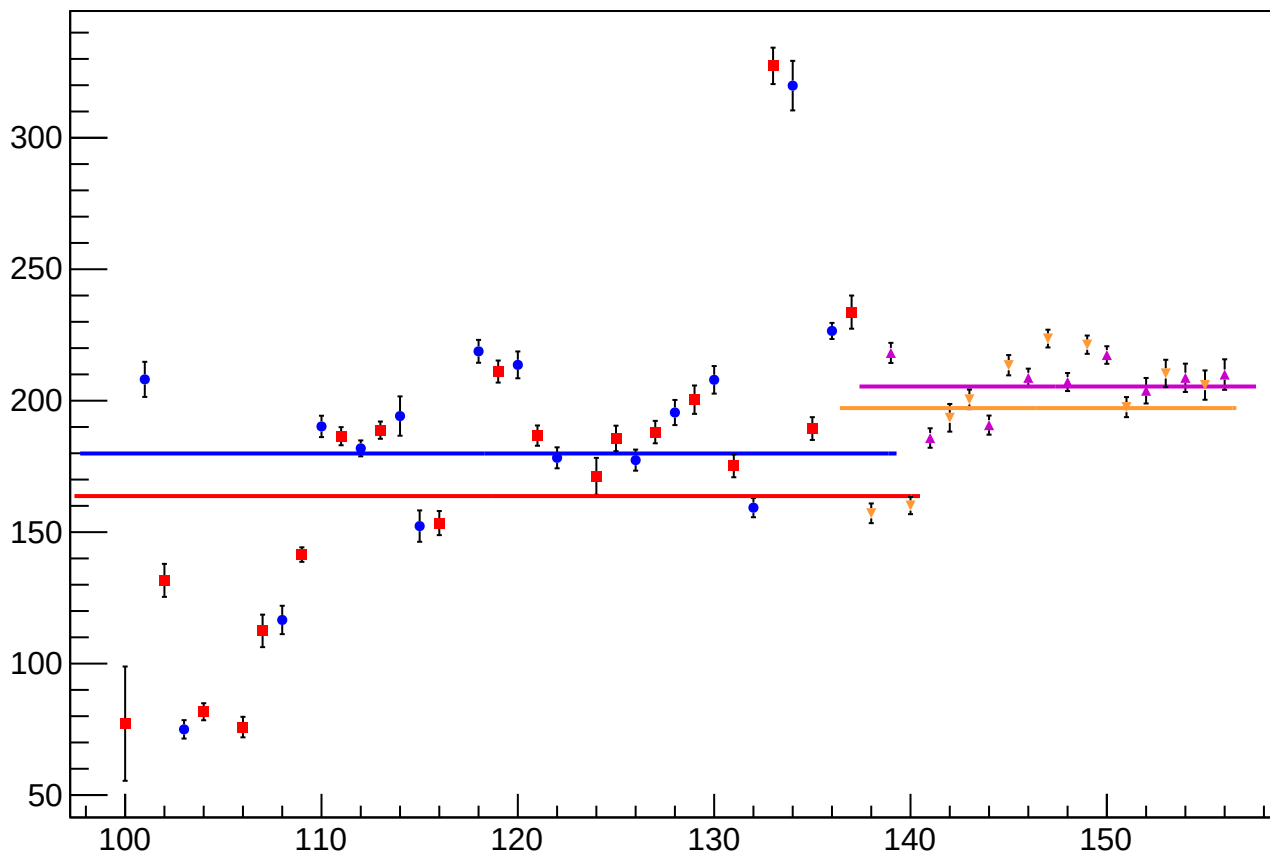
Right: -131.335+/-0.066 χ^2/NDF : 438808.7/34

In: -148.646+/-0.057 χ^2/NDF : 157023.9/24

Out: -141.202+/-0.055 χ^2/NDF : 397105.8/28

All: -144.785+/-0.040 χ^2/NDF : 562987.2/53

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: 197.190 $\pm$ 1.243 χ^2 /NDF: 379.0/9

Right Out: 163.718 $\pm$ 1.001 χ^2 /NDF: 2416.8/18

Left In: 205.397 $\pm$ 1.313 χ^2 /NDF: 70.5/8

Left: 201.068 $\pm$ 0.903 χ^2 /NDF: 470.2/18

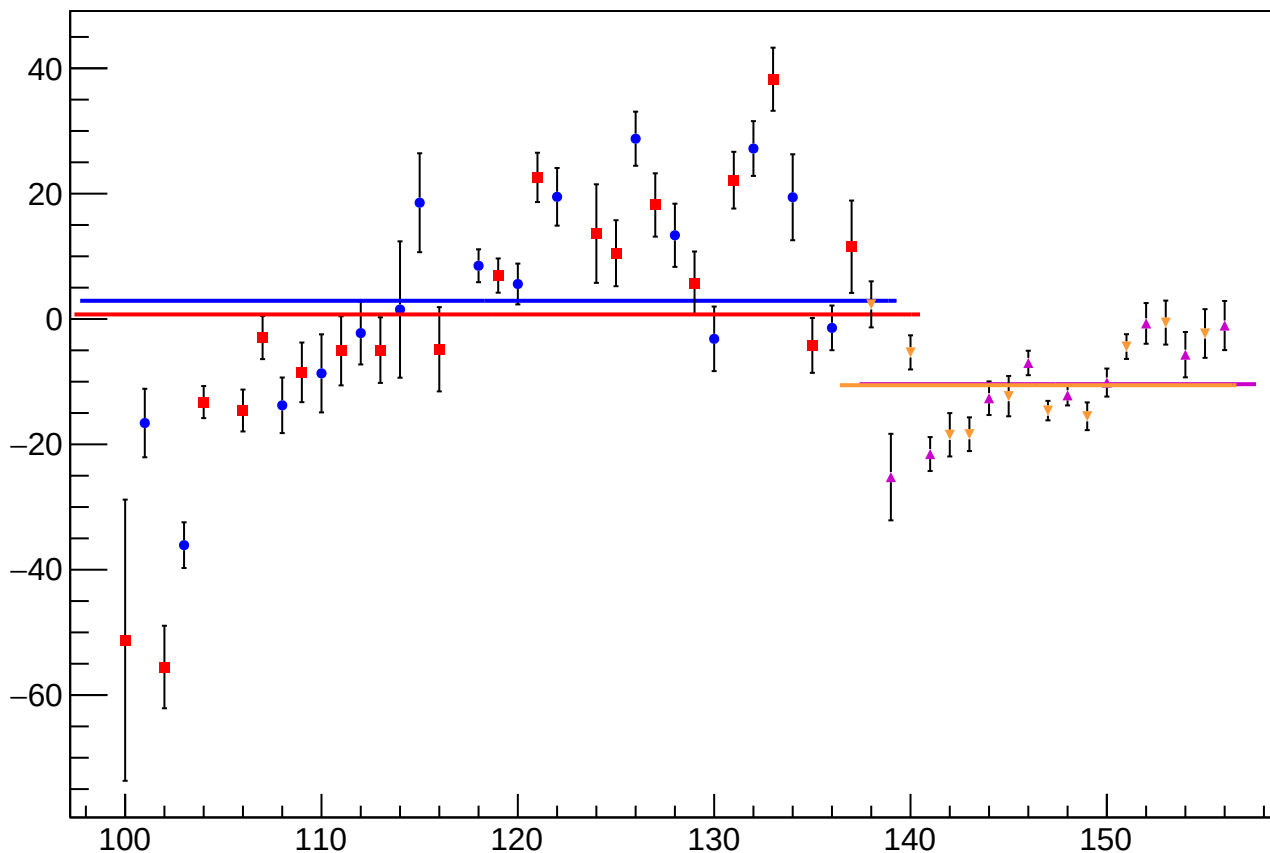
Right: 171.138 $\pm$ 0.737 χ^2 /NDF: 4269.5/34

In: 190.297 $\pm$ 0.838 χ^2 /NDF: 2026.4/24

Out: 176.884 $\pm$ 0.779 χ^2 /NDF: 3235.8/28

All: 183.105 $\pm$ 0.571 χ^2 /NDF: 5399.6/53

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: -10.563 ± 0.803 χ^2/NDF : 64.2/9

Right Out: 0.729 ± 1.012 χ^2/NDF : 273.6/18

Left In: -10.398 ± 0.851 χ^2/NDF : 42.8/8

Left: -10.485 ± 0.584 χ^2/NDF : 107.1/18

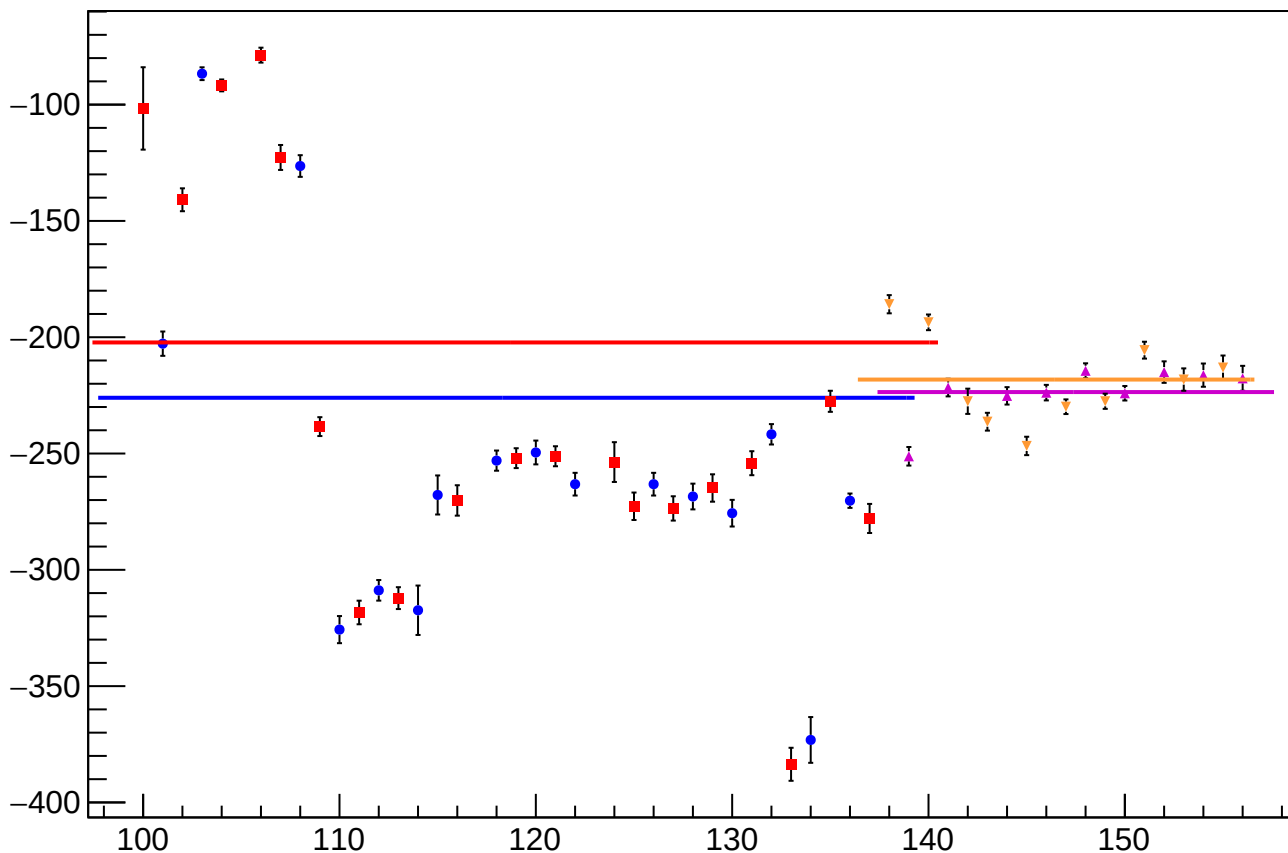
Right: 1.723 ± 0.746 χ^2/NDF : 523.2/34

In: -5.439 ± 0.674 χ^2/NDF : 381.3/24

Out: -6.201 ± 0.629 χ^2/NDF : 414.2/28

All: -5.847 ± 0.460 χ^2/NDF : 796.2/53

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -226.028 ± 1.175 $\chi^2/\text{NDF}: 4539.0/15$

Left Out: -218.201 ± 1.221 $\chi^2/\text{NDF}: 234.3/9$

Right Out: -202.247 ± 1.087 $\chi^2/\text{NDF}: 6690.8/18$

Left In: -223.575 ± 1.276 $\chi^2/\text{NDF}: 63.2/8$

Left: -220.770 ± 0.882 $\chi^2/\text{NDF}: 306.8/18$

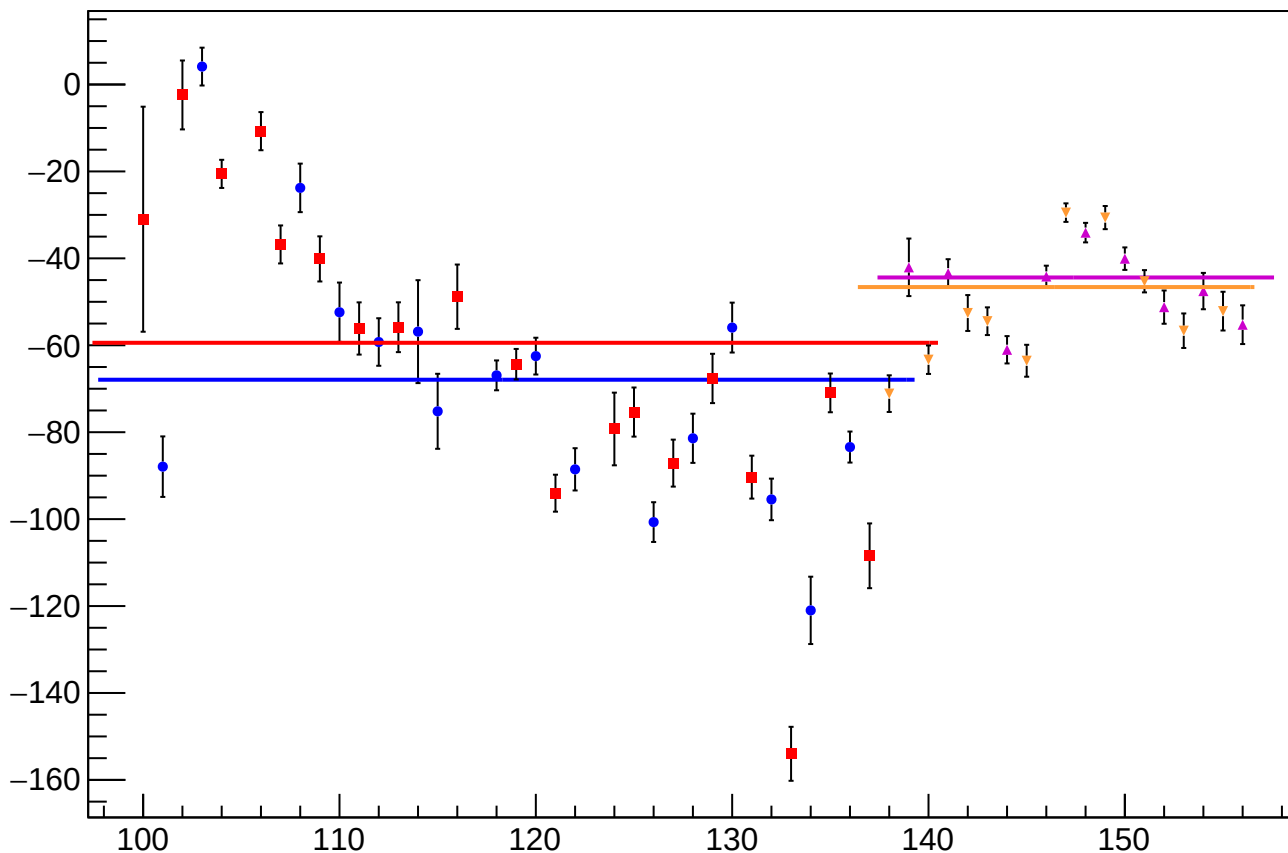
Right: -213.214 ± 0.798 $\chi^2/\text{NDF}: 11450.5/34$

In: -224.902 ± 0.864 $\chi^2/\text{NDF}: 4604.2/24$

Out: -209.303 ± 0.812 $\chi^2/\text{NDF}: 7020.4/28$

All: -216.615 ± 0.592 $\chi^2/\text{NDF}: 11797.7/53$

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.927 ± 1.278 χ^2/NDF : 534.0/15

Left Out: -46.607 ± 0.996 χ^2/NDF : 198.2/9

Right Out: -59.428 ± 1.184 χ^2/NDF : 794.9/18

Left In: -44.399 ± 1.051 χ^2/NDF : 61.8/8

Left: -45.562 ± 0.723 χ^2/NDF : 262.3/18

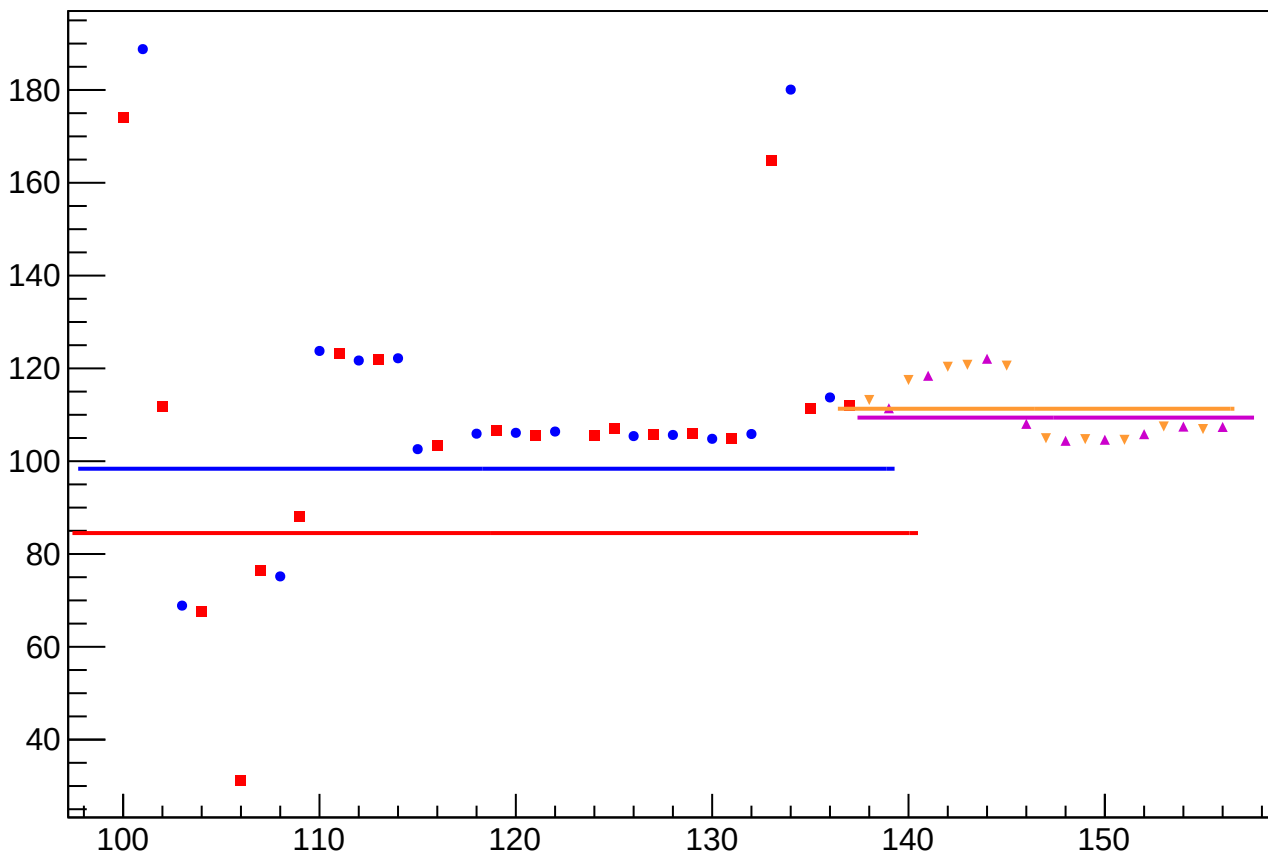
Right: -63.353 ± 0.869 χ^2/NDF : 1352.7/34

In: -53.890 ± 0.812 χ^2/NDF : 798.0/24

Out: -51.919 ± 0.762 χ^2/NDF : 1061.7/28

All: -52.843 ± 0.556 χ^2/NDF : 1862.9/53

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: 111.306+/-0.050 χ^2/NDF : 18194.9/9

Right Out: 84.512+/-0.061 χ^2/NDF : 268911.0/18

Left In: 109.394+/-0.050 χ^2/NDF : 13010.9/8

Left: 110.356+/-0.035 χ^2/NDF : 31943.8/18

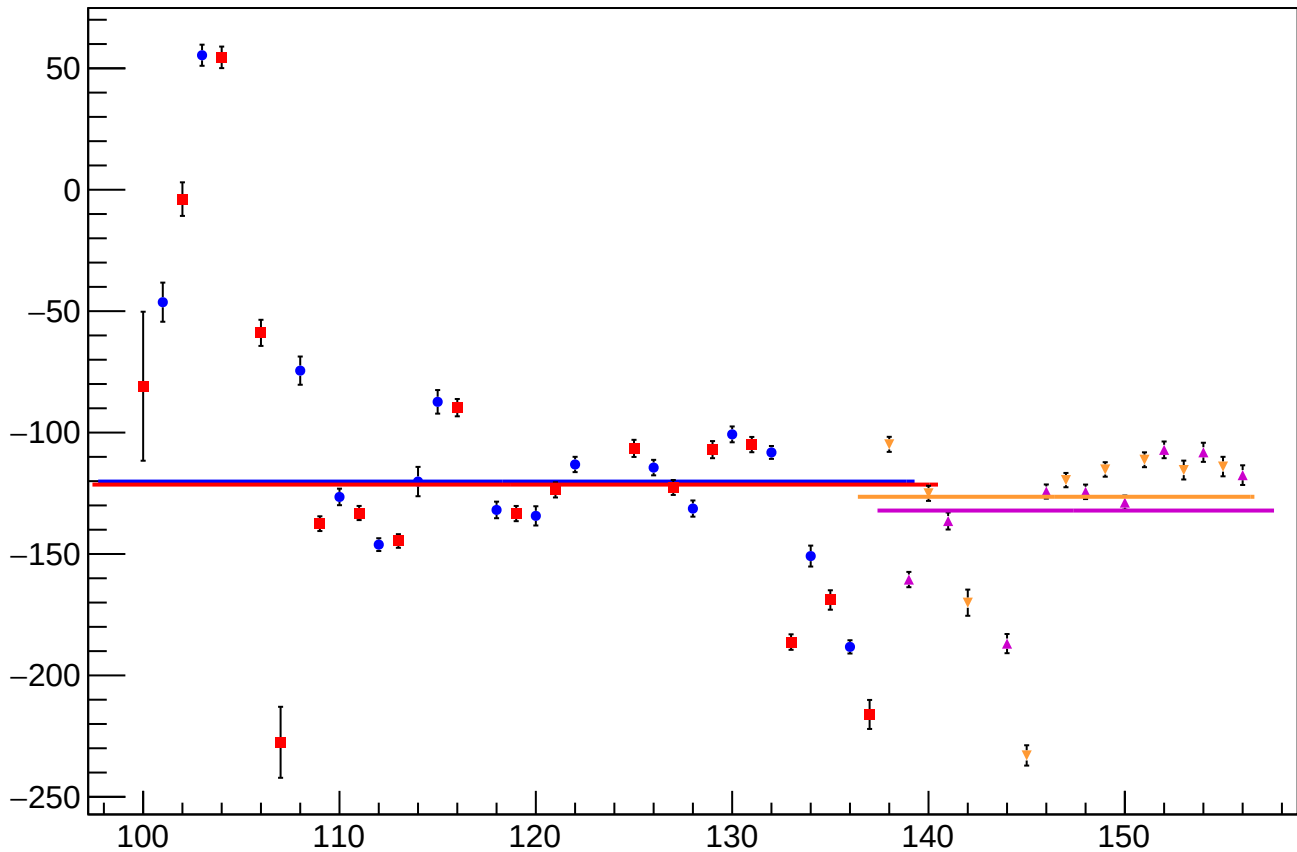
Right: 90.854+/-0.045 χ^2/NDF : 521250.8/34

In: 105.388+/-0.040 χ^2/NDF : 259141.1/24

Out: 100.565+/-0.038 χ^2/NDF : 404113.0/28

All: 102.888+/-0.028 χ^2/NDF : 670858.0/53

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: -126.437 ± 1.146 χ^2/NDF : 823.4/8

Right Out: -121.418 ± 0.875 χ^2/NDF : 3126.3/17

Left In: -132.108 ± 1.114 χ^2/NDF : 393.4/8

Left: -129.352 ± 0.799 χ^2/NDF : 1229.4/17

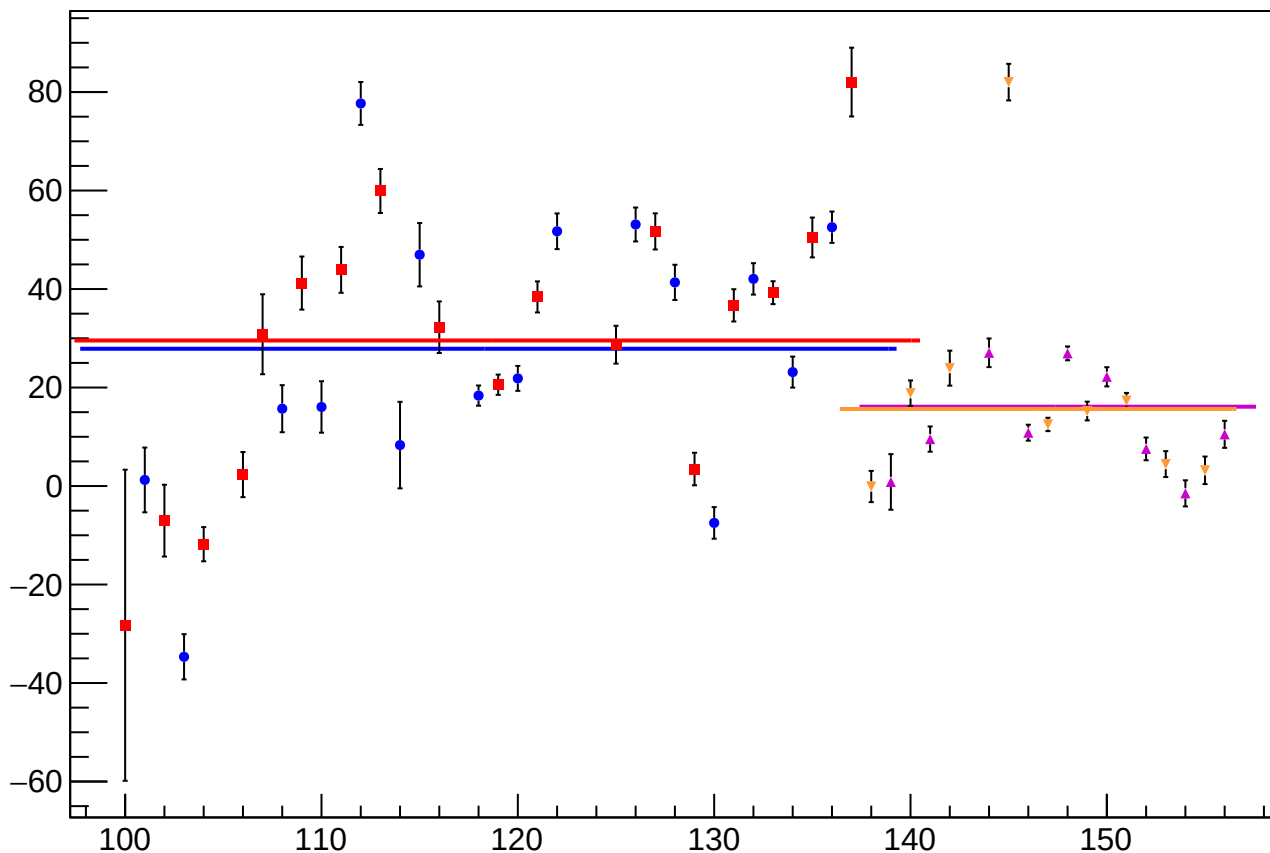
Right: -120.808 ± 0.624 χ^2/NDF : 5818.5/33

In: -124.827 ± 0.696 χ^2/NDF : 3154.6/24

Out: -123.267 ± 0.696 χ^2/NDF : 3961.9/26

All: -124.047 ± 0.492 χ^2/NDF : 7119.0/51

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: 15.653 $\pm$ 0.727 χ^2 /NDF: 395.4/8

Right Out: 29.553 $\pm$ 0.890 χ^2 /NDF: 497.5/17

Left In: 16.110 $\pm$ 0.723 χ^2 /NDF: 169.4/8

Left: 15.883 $\pm$ 0.513 χ^2 /NDF: 565.0/17

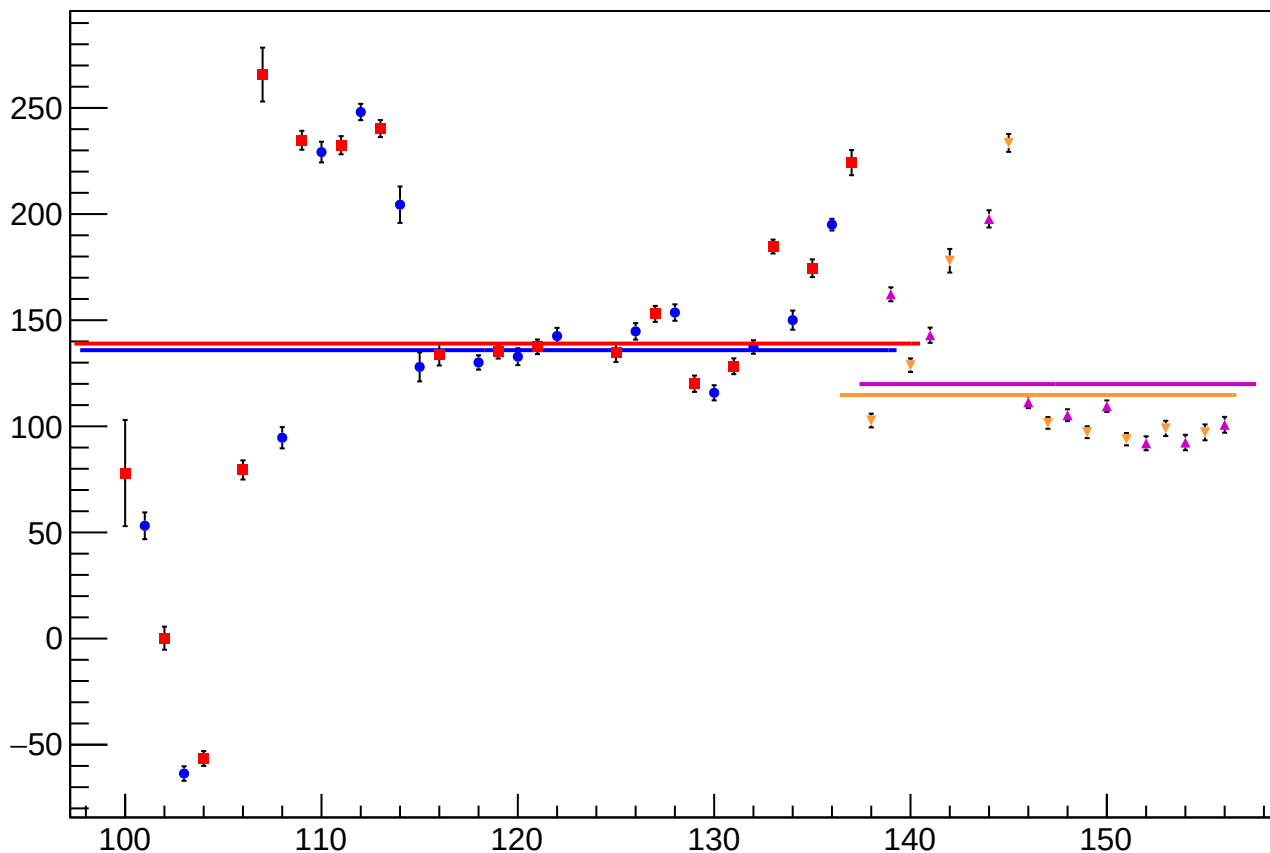
Right: 28.711 $\pm$ 0.629 χ^2 /NDF: 1198.9/33

In: 20.799 $\pm$ 0.561 χ^2 /NDF: 974.5/24

Out: 21.220 $\pm$ 0.563 χ^2 /NDF: 1039.2/26

All: 21.009 $\pm$ 0.397 χ^2 /NDF: 2014.0/51

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 135.883 $\pm$ 0.999 χ^2 /NDF: 5463.6/15

Left Out: 114.766 $\pm$ 1.112 χ^2 /NDF:1109.1/8

Right Out: 138.985 $\pm$ 0.998 χ^2 /NDF: 6156.4/17

Left In: 119.890 $\pm$ 1.076 χ^2 /NDF:780.5/8

Left: 117.410 $\pm$ 0.773 χ^2 /NDF: 1900.6/17

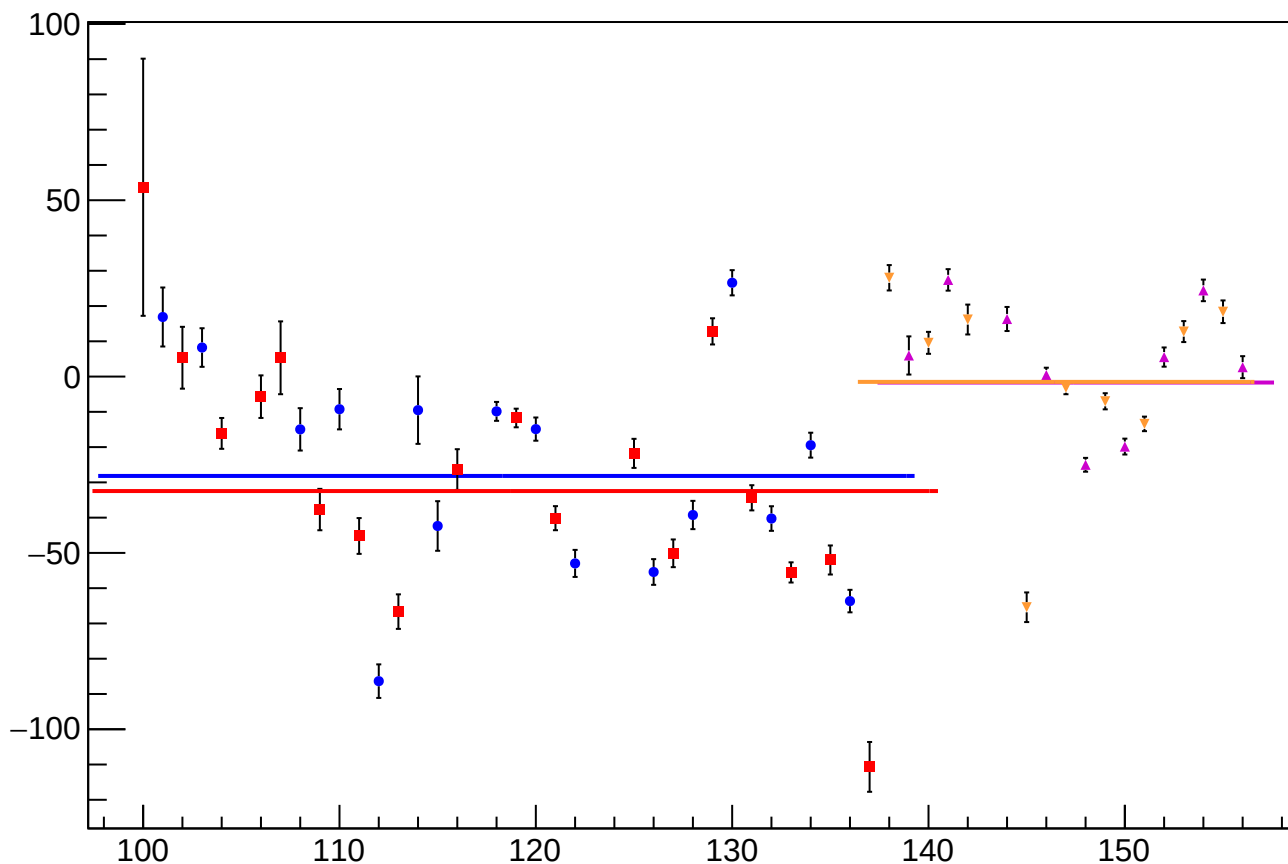
Right: 137.434 $\pm$ 0.706 χ^2 /NDF: 11624.9/33

In: 128.486 $\pm$ 0.732 χ^2 /NDF:6362.8/24

Out: 128.172 $\pm$ 0.743 χ^2 /NDF:7528.3/26

All: 128.331 $\pm$ 0.521 χ^2 /NDF: 13891.2/51

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: -1.506 ± 0.906 χ^2/NDF : 429.9/8

Right Out: -32.459 ± 1.027 χ^2/NDF : 580.8/17

Left In: -1.689 ± 0.890 χ^2/NDF : 410.5/8

Left: -1.599 ± 0.635 χ^2/NDF : 840.4/17

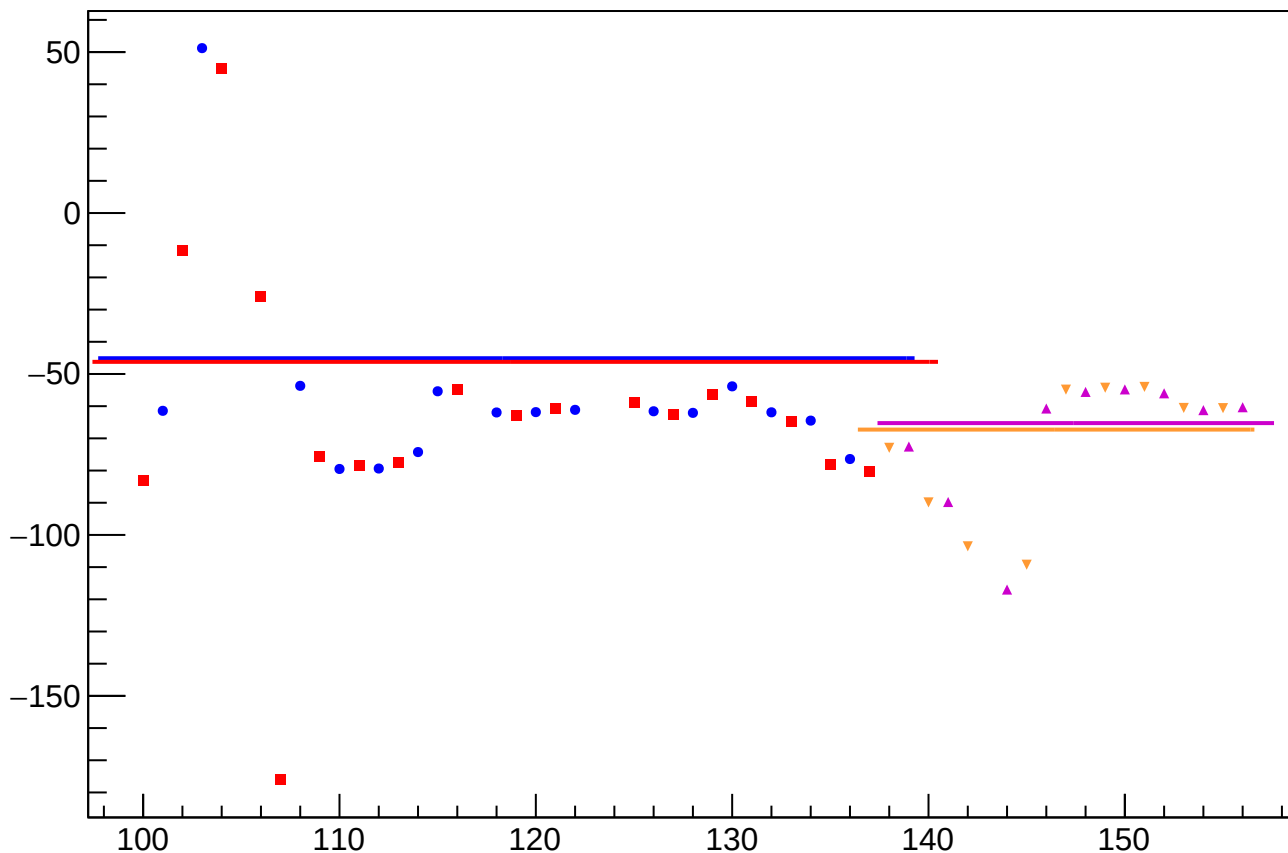
Right: -30.307 ± 0.725 χ^2/NDF : 1380.8/33

In: -13.105 ± 0.671 χ^2/NDF : 1583.7/24

Out: -15.042 ± 0.679 χ^2/NDF : 1521.5/26

All: -14.061 ± 0.477 χ^2/NDF : 3109.4/51

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: -67.275 ± 0.044 $\chi^2/\text{NDF}: 157989.7/8$

Right Out: -46.229 ± 0.063 $\chi^2/\text{NDF}: 493616.3/17$

Left In: -65.258 ± 0.041 $\chi^2/\text{NDF}: 138626.6/8$

Left: -66.196 ± 0.030 $\chi^2/\text{NDF}: 297728.7/17$

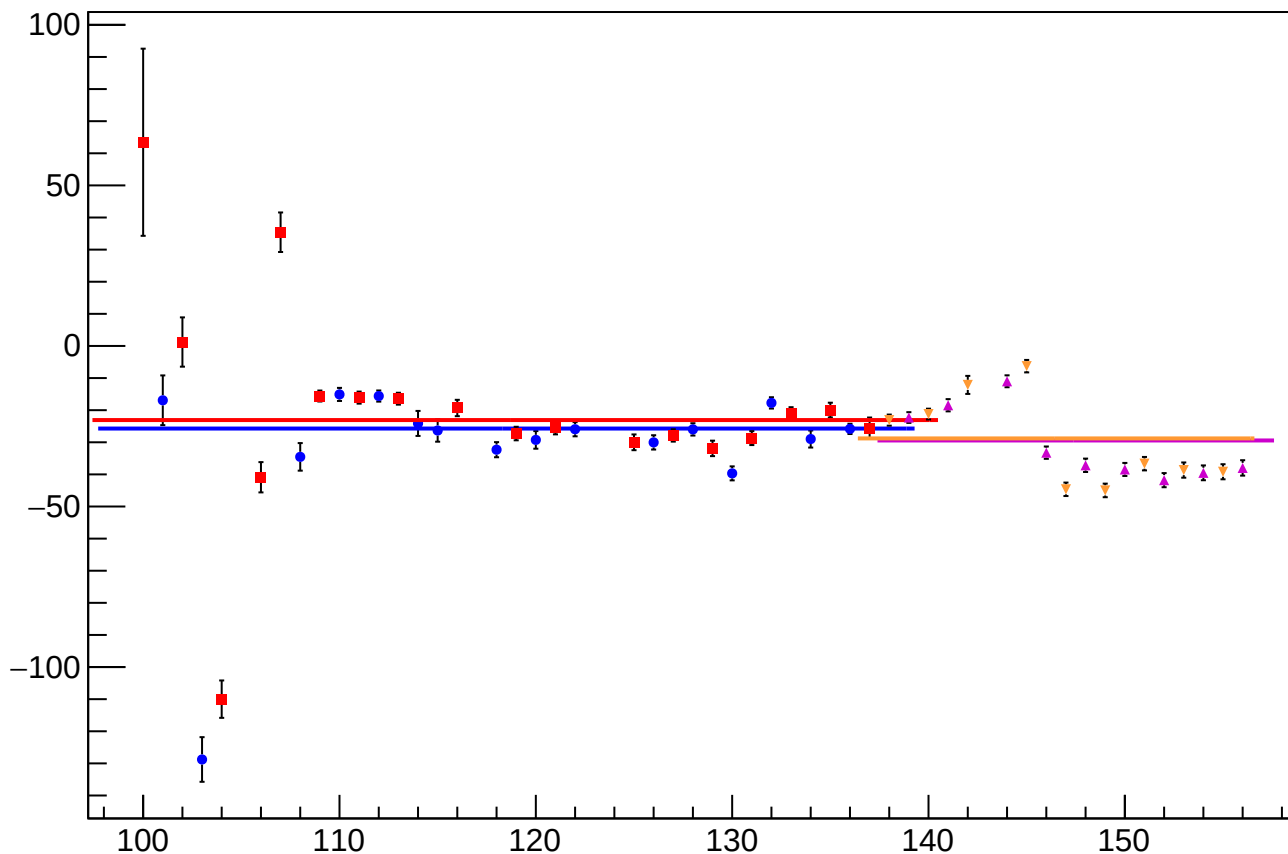
Right: -45.645 ± 0.043 $\chi^2/\text{NDF}: 1068967.9/33$

In: -58.814 ± 0.034 $\chi^2/\text{NDF}: 790204.7/24$

Out: -60.266 ± 0.036 $\chi^2/\text{NDF}: 727026.2/26$

All: -59.496 ± 0.025 $\chi^2/\text{NDF}: 1518088.1/51$

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -25.721 ± 0.590 χ^2/NDF : 363.0/15

Left Out: -28.795 ± 0.687 χ^2/NDF : 367.6/8

Right Out: -23.079 ± 0.582 χ^2/NDF : 437.1/17

Left In: -29.433 ± 0.669 χ^2/NDF : 250.3/8

Left: -29.122 ± 0.479 χ^2/NDF : 618.3/17

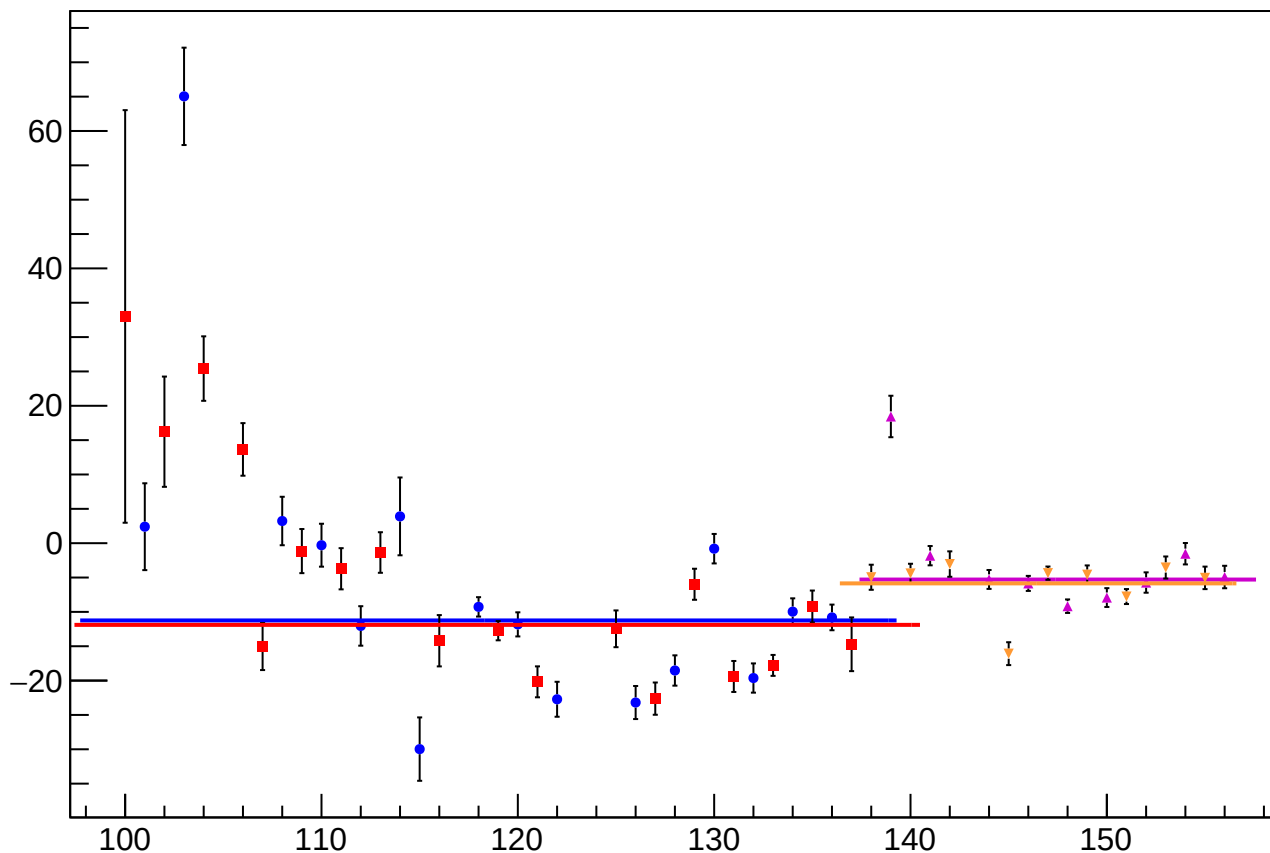
Right: -24.381 ± 0.414 χ^2/NDF : 810.3/33

In: -27.345 ± 0.443 χ^2/NDF : 630.6/24

Out: -25.466 ± 0.444 χ^2/NDF : 845.0/26

All: -26.409 ± 0.313 χ^2/NDF : 1484.6/51

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: -5.852 ± 0.462 χ^2/NDF : 50.0/8

Right Out: -11.890 ± 0.607 χ^2/NDF : 224.5/17

Left In: -5.294 ± 0.457 χ^2/NDF : 93.4/8

Left: -5.570 ± 0.325 χ^2/NDF : 144.2/17

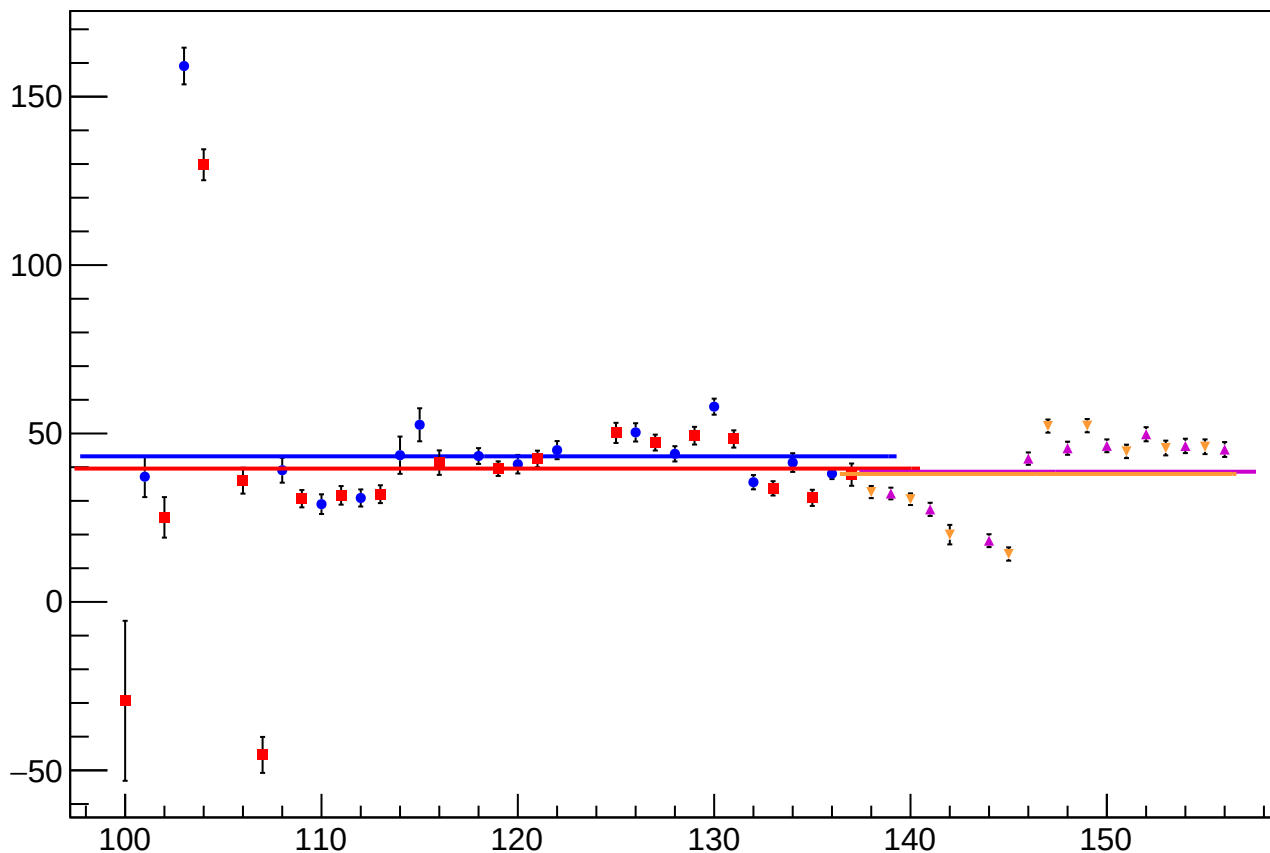
Right: -11.564 ± 0.427 χ^2/NDF : 496.1/33

In: -7.480 ± 0.364 χ^2/NDF : 426.7/24

Out: -8.069 ± 0.368 χ^2/NDF : 337.1/26

All: -7.771 ± 0.259 χ^2/NDF : 765.2/51

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: 37.994 $\pm$ 0.674 χ^2 /NDF: 353.2/8

Right Out: 39.587 $\pm$ 0.685 χ^2 /NDF: 754.0/17

Left In: 38.654 $\pm$ 0.653 χ^2 /NDF: 244.2/8

Left: 38.335 $\pm$ 0.469 χ^2 /NDF: 597.9/17

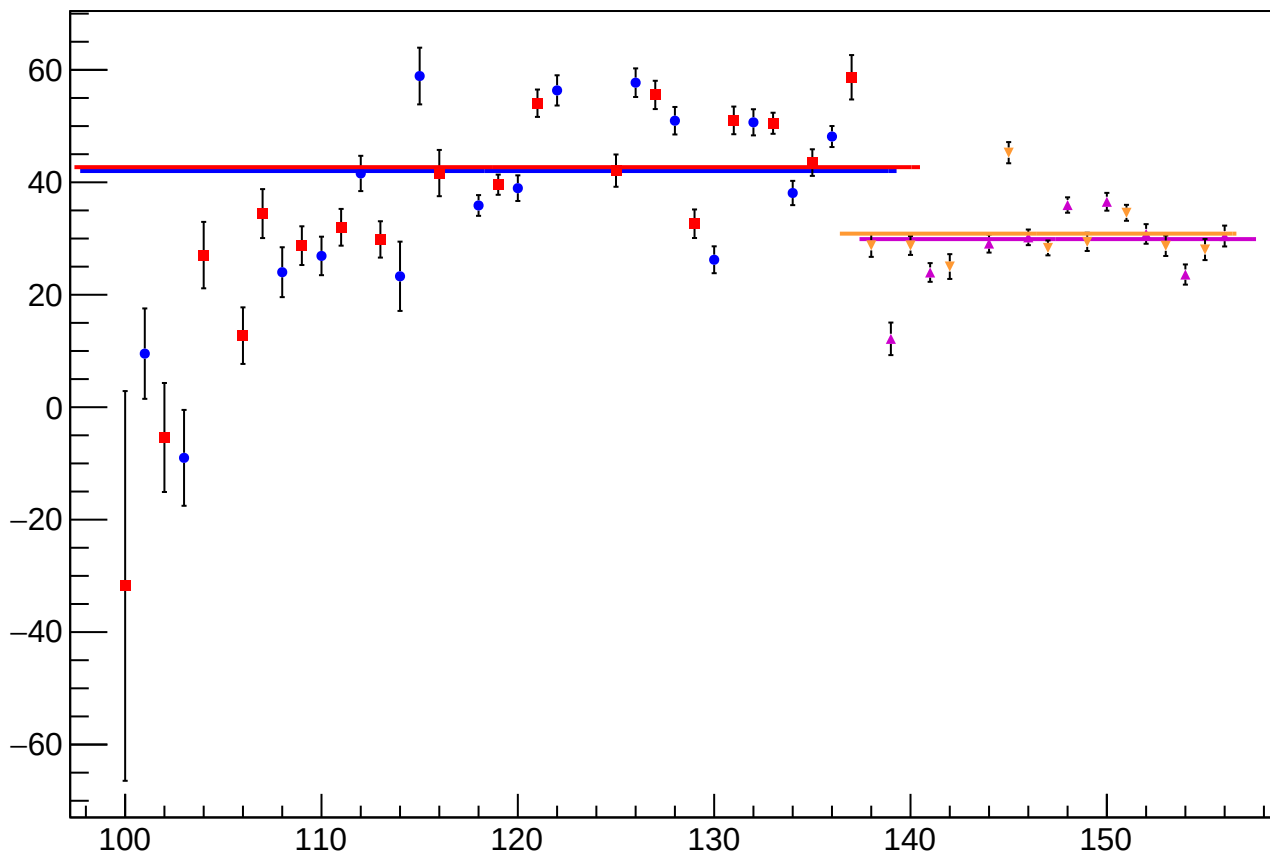
Right: 41.422 $\pm$ 0.482 χ^2 /NDF: 1344.2/33

In: 40.851 $\pm$ 0.470 χ^2 /NDF: 843.8/24

Out: 38.778 $\pm$ 0.480 χ^2 /NDF: 1110.0/26

All: 39.836 $\pm$ 0.336 χ^2 /NDF: 1963.2/51

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: 30.870 $\pm$ 0.567 χ^2 /NDF: 83.0/8

Right Out: 42.696 $\pm$ 0.695 χ^2 /NDF: 230.3/17

Left In: 29.898 $\pm$ 0.555 χ^2 /NDF: 100.4/8

Left: 30.374 $\pm$ 0.397 χ^2 /NDF: 184.9/17

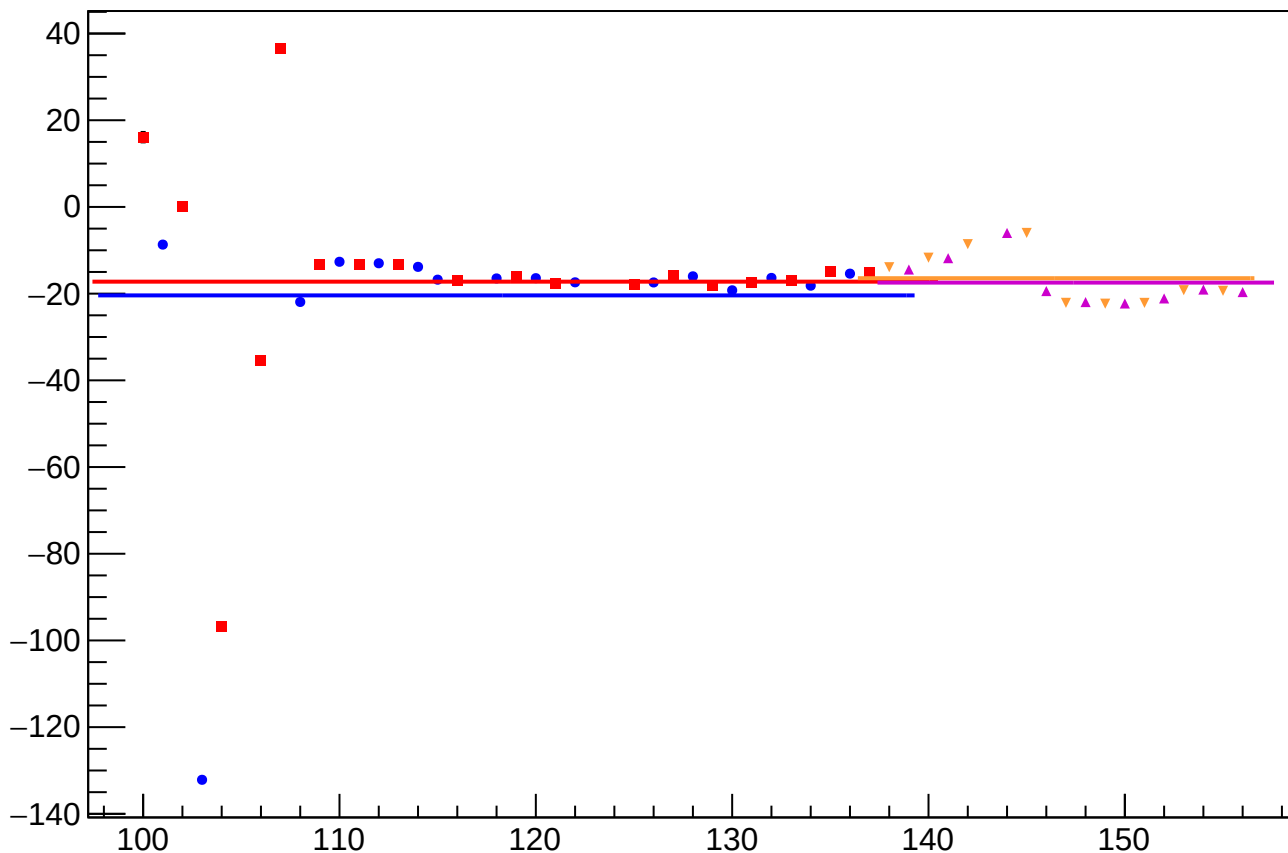
Right: 42.345 $\pm$ 0.487 χ^2 /NDF: 503.5/33

In: 34.707 $\pm$ 0.431 χ^2 /NDF: 562.2/24

Out: 35.596 $\pm$ 0.439 χ^2 /NDF: 487.2/26

All: 35.143 $\pm$ 0.308 χ^2 /NDF: 1051.5/51

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: -16.439 ± 0.027 χ^2/NDF : 44983.8/8

Right Out: -17.236 ± 0.044 χ^2/NDF : 204657.3/17

Left In: -17.452 ± 0.025 χ^2/NDF : 36905.4/8

Left: -16.979 ± 0.018 χ^2/NDF : 82661.1/17

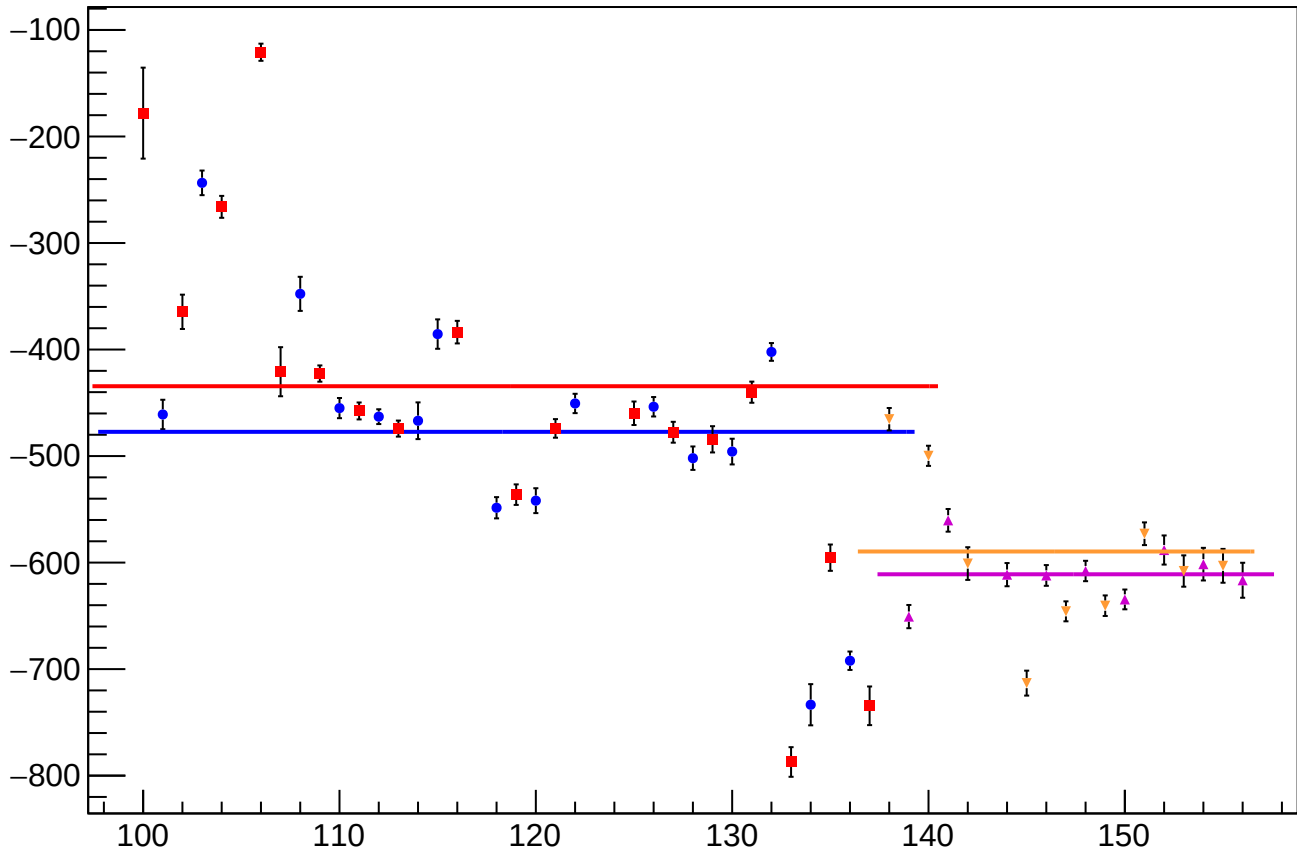
Right: -18.901 ± 0.030 χ^2/NDF : 452982.8/33

In: -18.225 ± 0.021 χ^2/NDF : 286182.8/24

Out: -16.652 ± 0.023 χ^2/NDF : 249880.5/26

All: -17.487 ± 0.016 χ^2/NDF : 538590.1/51

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -477.255 ± 2.633 $\chi^2/\text{NDF}: 1510.8/15$

Left Out: -589.586 ± 3.745 $\chi^2/\text{NDF}: 410.1/8$

Right Out: -434.437 ± 2.464 $\chi^2/\text{NDF}: 3161.9/17$

Left In: -610.974 ± 3.725 $\chi^2/\text{NDF}: 45.8/8$

Left: -600.337 ± 2.641 $\chi^2/\text{NDF}: 472.2/17$

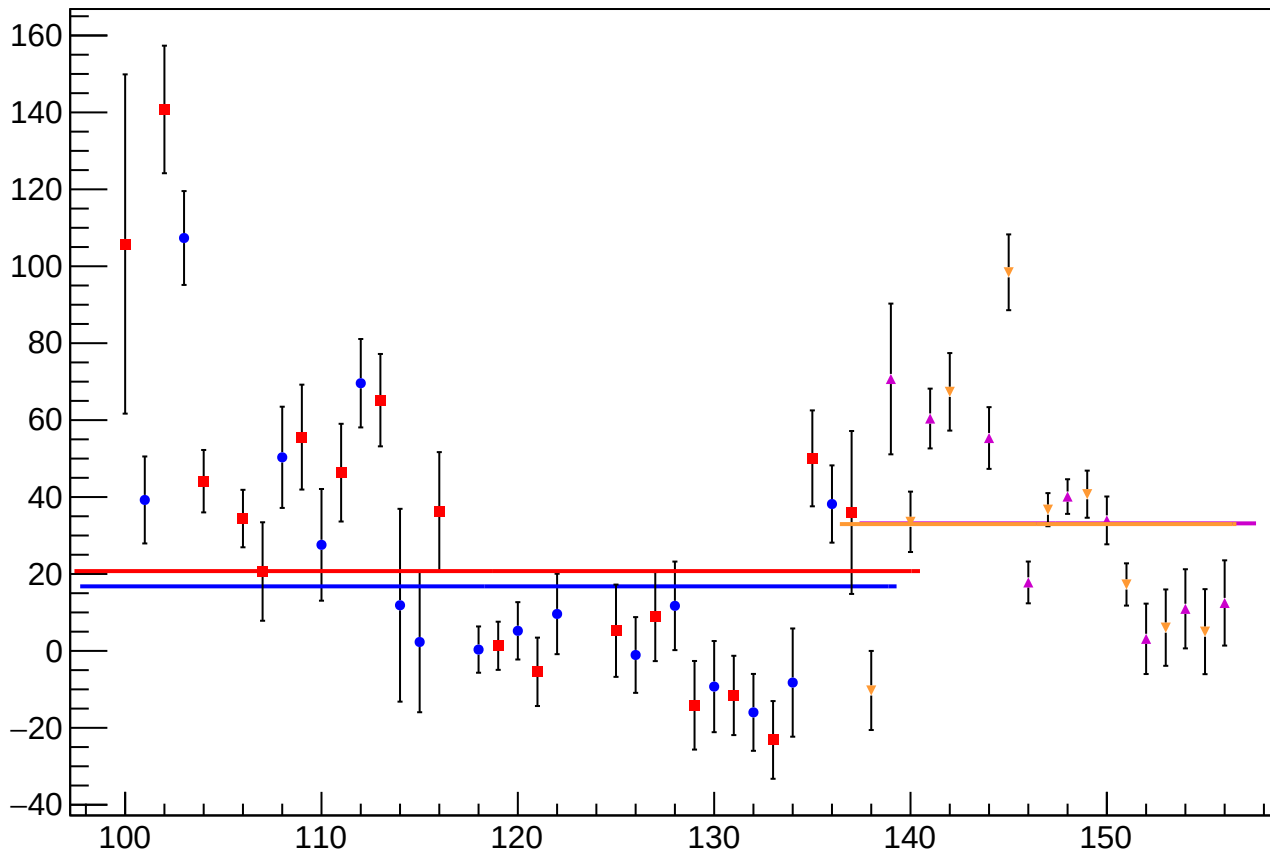
Right: -454.426 ± 1.799 $\chi^2/\text{NDF}: 4813.7/33$

In: -521.804 ± 2.150 $\chi^2/\text{NDF}: 2415.8/24$

Out: -481.300 ± 2.058 $\chi^2/\text{NDF}: 4769.7/26$

All: -500.669 ± 1.487 $\chi^2/\text{NDF}: 7370.6/51$

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: 32.970 $\pm$ 2.371 χ^2 /NDF:97.8/8

Right Out: 20.749 $\pm$ 2.548 χ^2 /NDF: 157.9/17

Left In: 33.156 $\pm$ 2.402 χ^2 /NDF:52.9/8

Left: 33.062 $\pm$ 1.687 χ^2 /NDF: 150.7/17

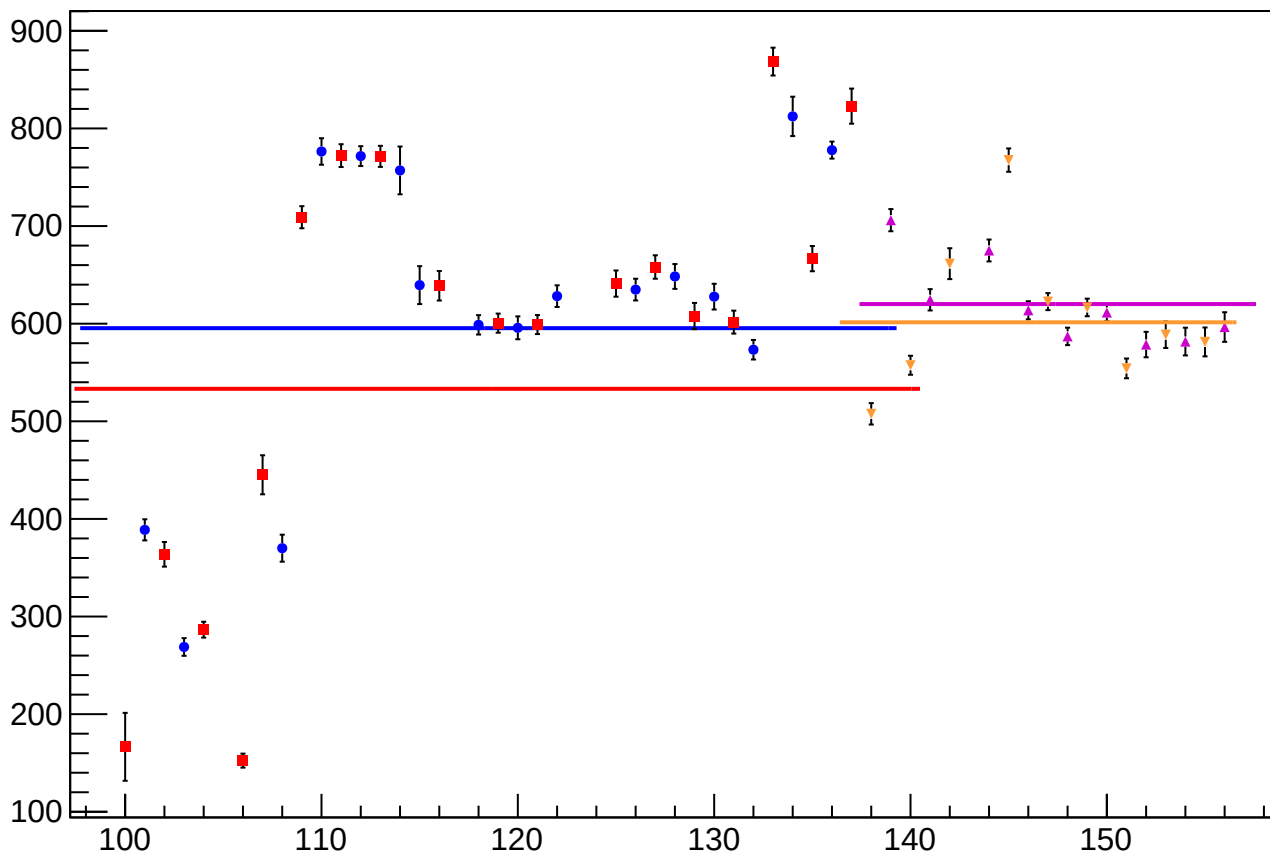
Right: 18.845 $\pm$ 1.838 χ^2 /NDF: 284.1/33

In: 25.782 $\pm$ 1.781 χ^2 /NDF:198.8/24

Out: 27.300 $\pm$ 1.736 χ^2 /NDF:268.1/26

All: 26.561 $\pm$ 1.243 χ^2 /NDF: 467.2/51

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 595.406 $\pm$ 2.930 χ^2 /NDF: 3059.7/15

Left Out: 601.417 $\pm$ 3.651 χ^2 /NDF:334.0/8

Right Out: 533.283 $\pm$ 2.746 χ^2 /NDF: 6502.9/17

Left In: 620.091 $\pm$ 3.614 χ^2 /NDF:116.3/8

Left: 610.850 $\pm$ 2.568 χ^2 /NDF: 463.5/17

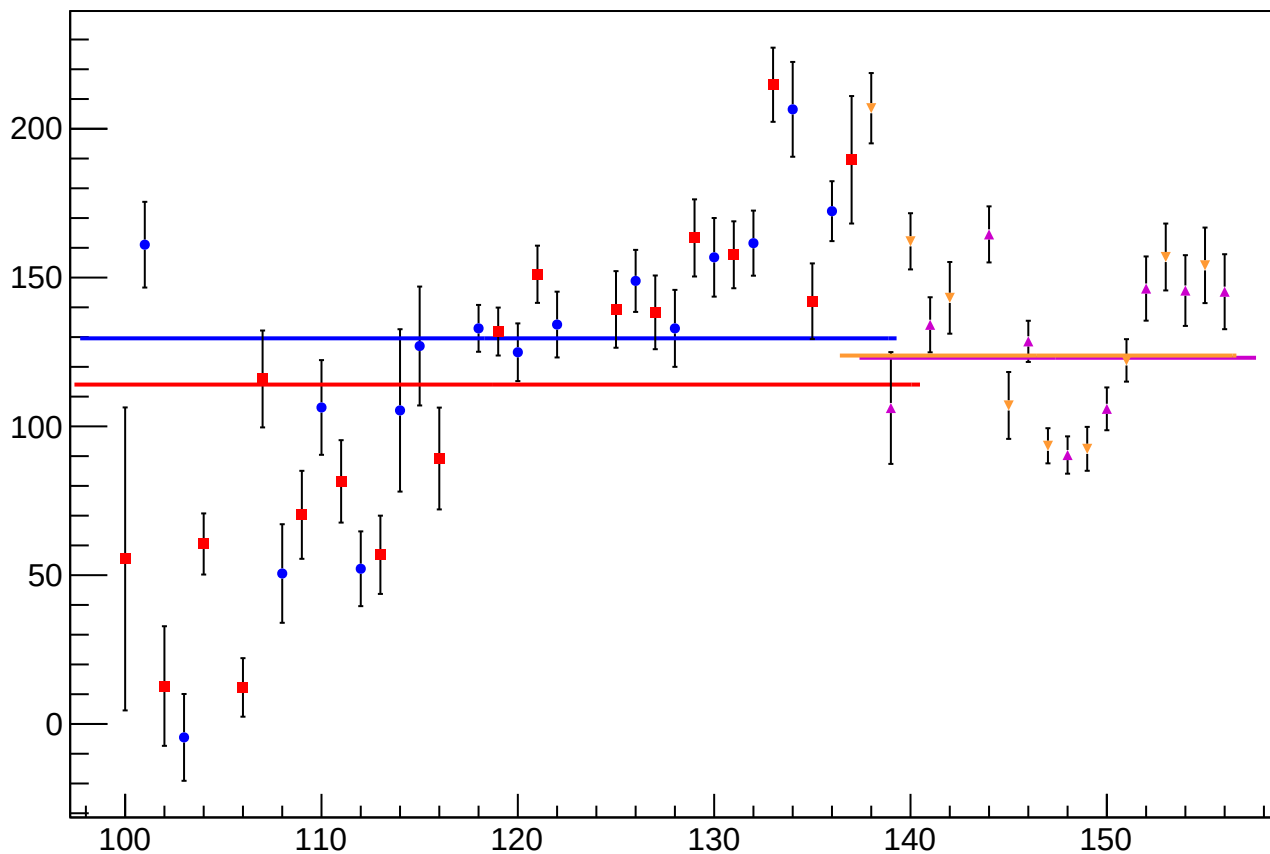
Right: 562.337 $\pm$ 2.003 χ^2 /NDF: 9802.0/33

In: 605.195 $\pm$ 2.276 χ^2 /NDF:3204.2/24

Out: 557.899 $\pm$ 2.195 χ^2 /NDF:7059.3/26

All: 580.688 $\pm$ 1.580 χ^2 /NDF: 10487.2/51

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: 123.799 $\pm$ 2.962 χ^2 /NDF:129.7/8

Right Out: 114.048 $\pm$ 2.976 χ^2 /NDF: 335.9/17

Left In: 123.053 $\pm$ 2.969 χ^2 /NDF:66.5/8

Left: 123.427 $\pm$ 2.097 χ^2 /NDF: 196.2/17

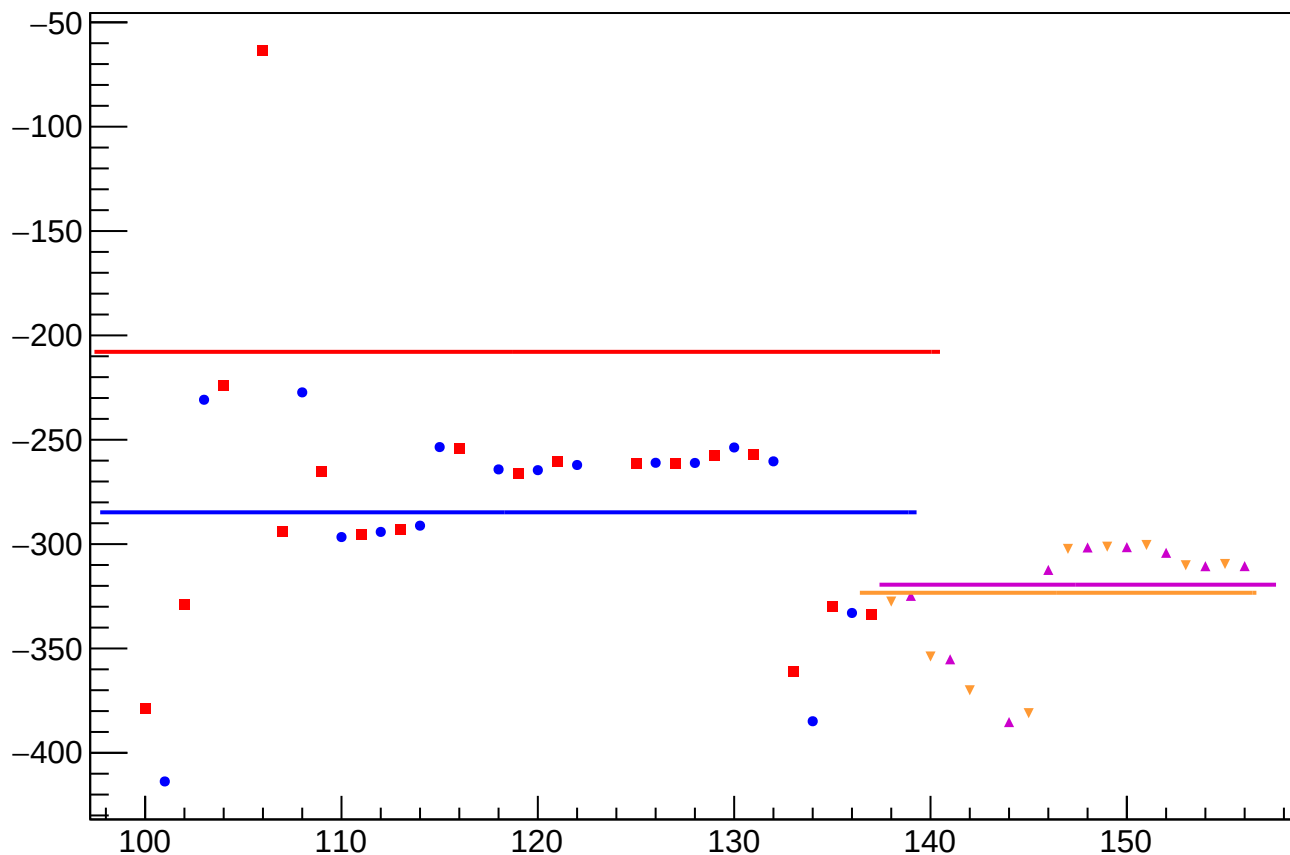
Right: 121.549 $\pm$ 2.140 χ^2 /NDF: 560.3/33

In: 126.199 $\pm$ 2.138 χ^2 /NDF:280.1/24

Out: 118.947 $\pm$ 2.099 χ^2 /NDF:471.0/26

All: 122.507 $\pm$ 1.498 χ^2 /NDF: 756.9/51

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: -323.313+/-0.148 χ^2/NDF : 36135.6/8

Right Out: -207.875+/-0.149 χ^2/NDF : 536707.7/17

Left In: -319.441+/-0.141 χ^2/NDF : 30778.1/8

Left: -321.287+/-0.102 χ^2/NDF : 67271.6/17

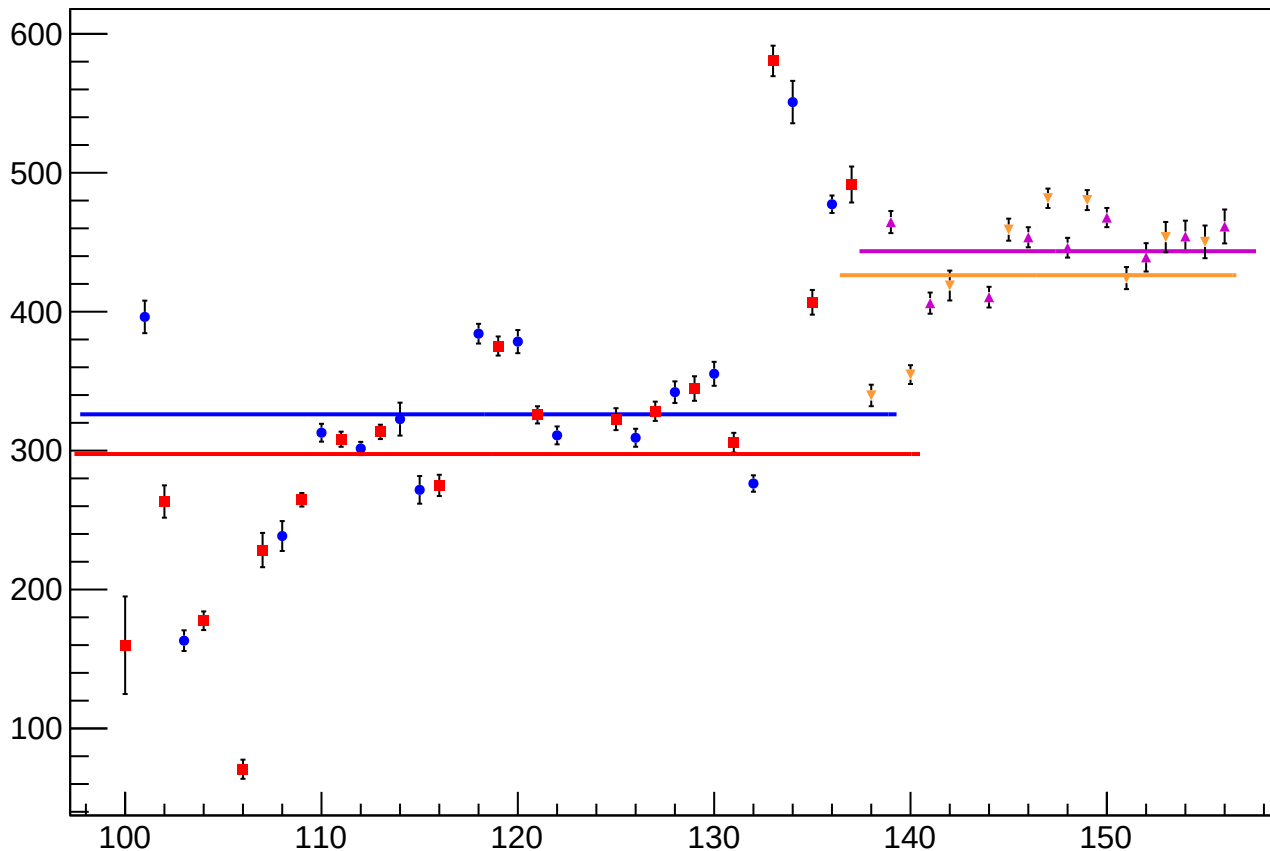
Right: -239.608+/-0.114 χ^2/NDF : 751214.9/33

In: -305.994+/-0.111 χ^2/NDF : 158498.9/24

Out: -265.902+/-0.105 χ^2/NDF : 875208.2/26

All: -284.906+/-0.076 χ^2/NDF : 1102861.0/51

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: 426.273+/-2.727 χ^2/NDF : 385.0/8

Right Out: 297.538+/-1.735 χ^2/NDF : 2775.4/17

Left In: 443.551+/-2.720 χ^2/NDF : 68.3/8

Left: 434.932+/-1.926 χ^2/NDF : 473.4/17

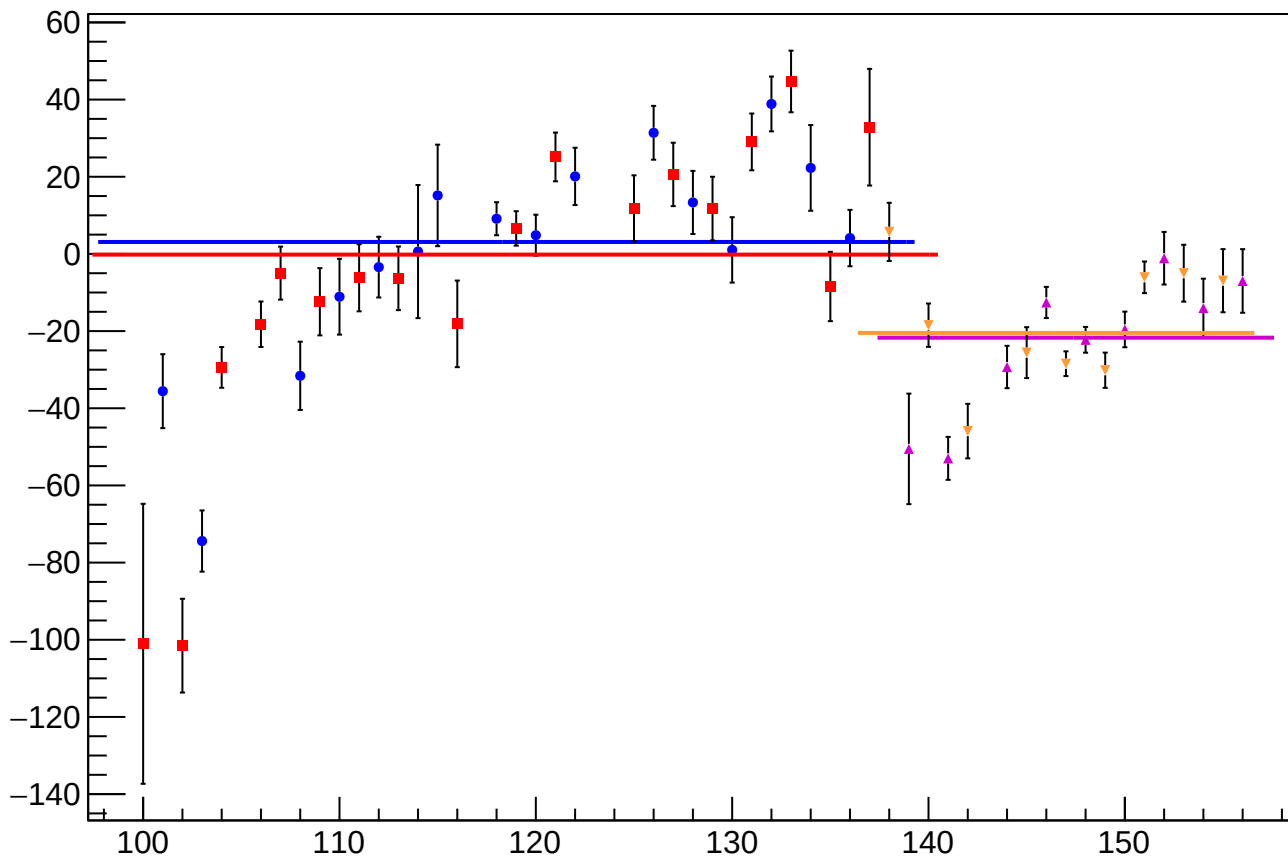
Right: 310.864+/-1.268 χ^2/NDF : 4545.0/33

In: 363.448+/-1.534 χ^2/NDF : 2982.1/24

Out: 334.629+/-1.464 χ^2/NDF : 4747.4/26

All: 348.365+/-1.059 χ^2/NDF : 7914.3/51

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: -20.471 ± 1.739 $\chi^2/\text{NDF}: 56.0/8$

Right Out: -0.180 ± 1.791 $\chi^2/\text{NDF}: 205.2/17$

Left In: -21.712 ± 1.764 $\chi^2/\text{NDF}: 56.2/8$

Left: -21.082 ± 1.239 $\chi^2/\text{NDF}: 112.4/17$

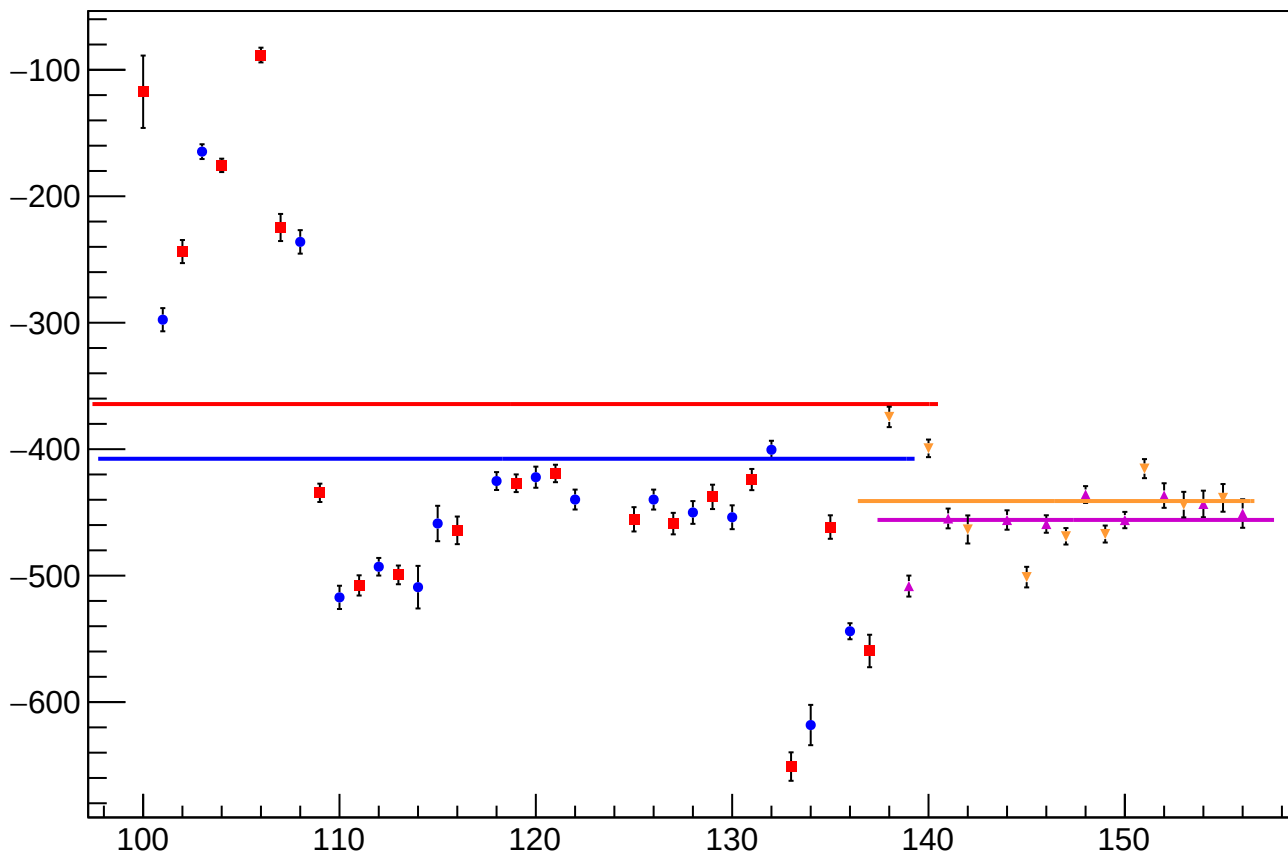
Right: 1.370 ± 1.301 $\chi^2/\text{NDF}: 391.3/33$

In: -10.172 ± 1.290 $\chi^2/\text{NDF}: 332.7/24$

Out: -10.625 ± 1.248 $\chi^2/\text{NDF}: 327.2/26$

All: -10.406 ± 0.897 $\chi^2/\text{NDF}: 660.0/51$

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: -441.018 ± 2.665 χ^2/NDF : 207.9/8

Right Out: -364.323 ± 1.942 χ^2/NDF : 6220.4/17

Left In: -455.943 ± 2.644 χ^2/NDF : 54.8/8

Left: -448.537 ± 1.877 χ^2/NDF : 278.5/17

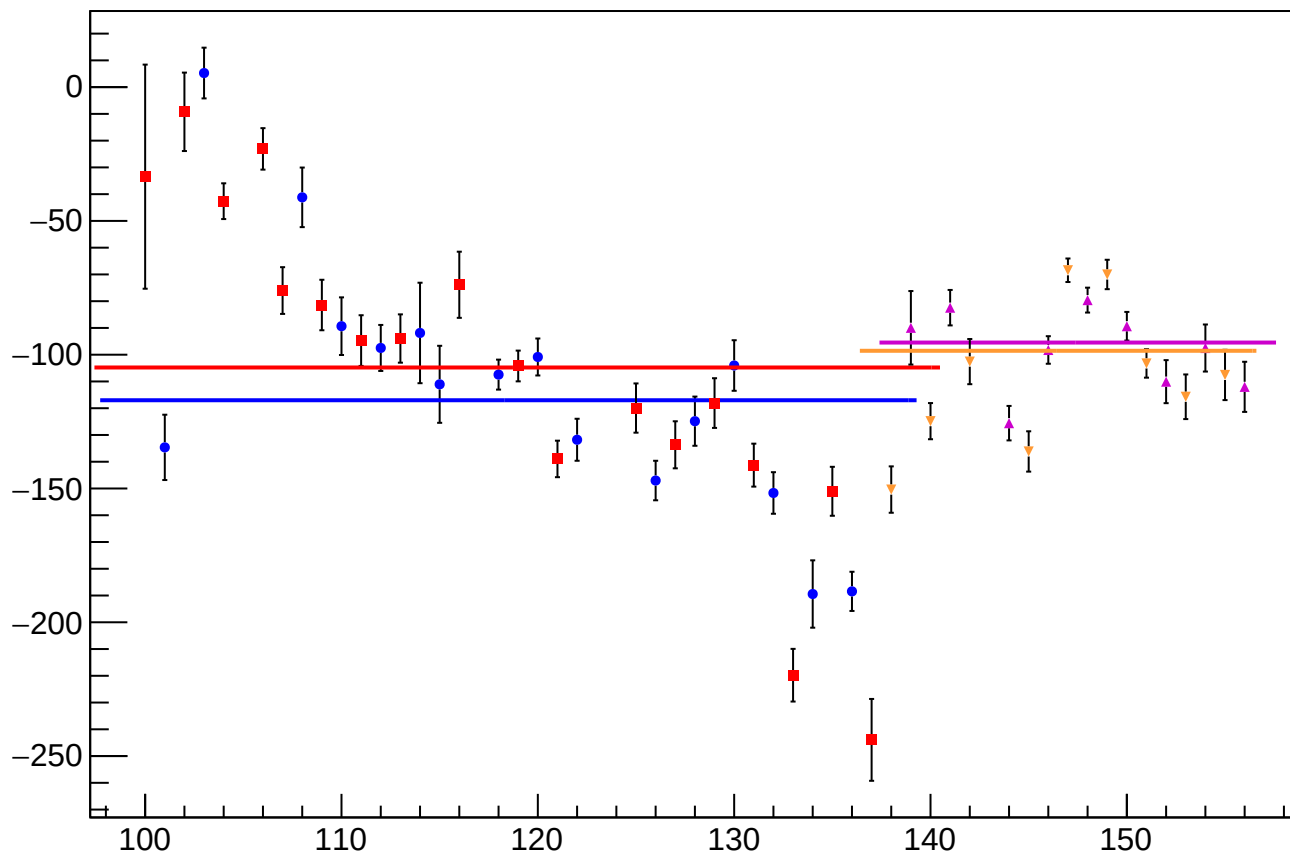
Right: -384.535 ± 1.418 χ^2/NDF : 9732.7/33

In: -425.994 ± 1.632 χ^2/NDF : 3542.5/24

Out: -390.935 ± 1.570 χ^2/NDF : 6969.3/26

All: -407.784 ± 1.131 χ^2/NDF : 10751.5/51

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: -98.536 ± 2.168 $\chi^2/\text{NDF}: 155.9/8$

Right Out: -104.780 ± 2.091 $\chi^2/\text{NDF}: 575.1/17$

Left In: -95.459 ± 2.178 $\chi^2/\text{NDF}: 45.6/8$

Left: -97.004 ± 1.537 $\chi^2/\text{NDF}: 202.5/17$

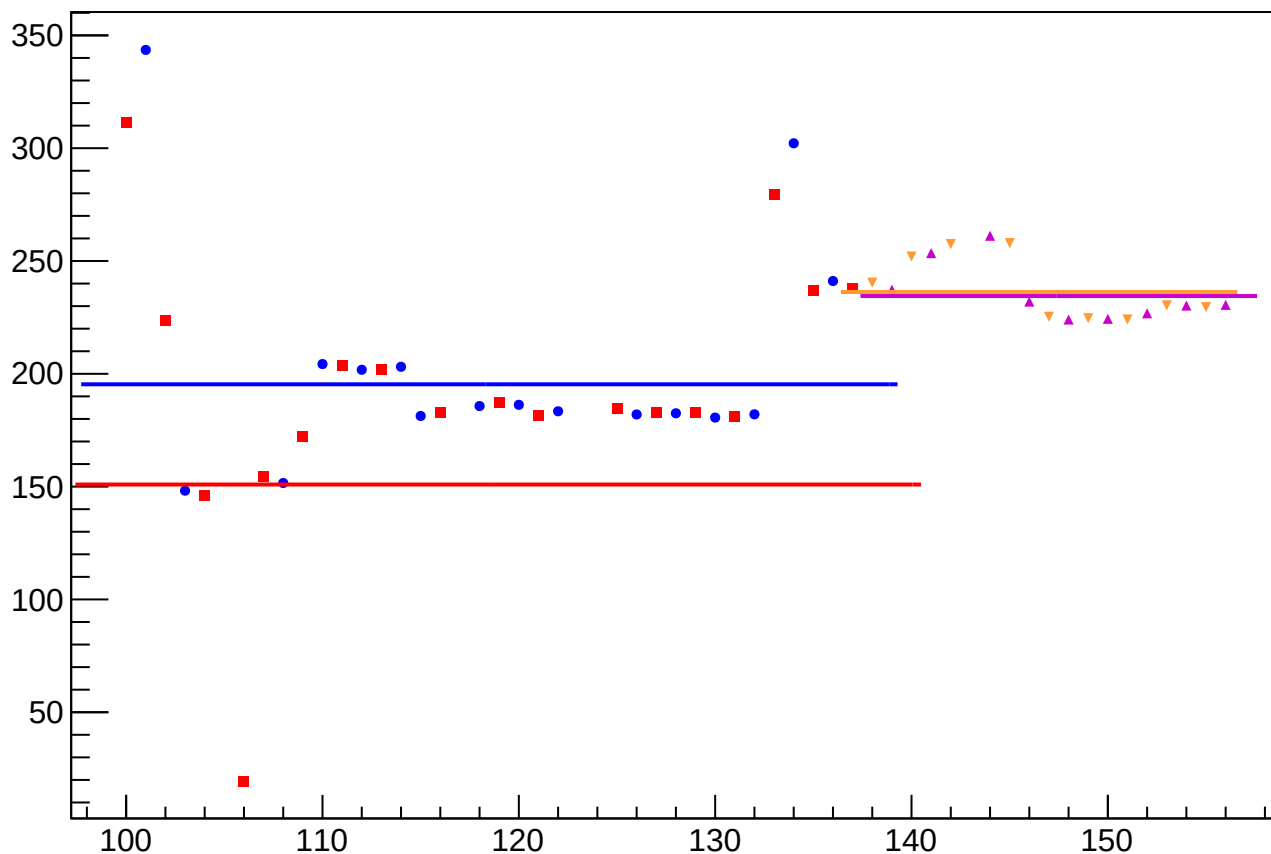
Right: -110.605 ± 1.514 $\chi^2/\text{NDF}: 999.2/33$

In: -106.158 ± 1.546 $\chi^2/\text{NDF}: 502.1/24$

Out: -101.771 ± 1.505 $\chi^2/\text{NDF}: 735.2/26$

All: -103.906 ± 1.078 $\chi^2/\text{NDF}: 1241.4/51$

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: 236.275+/-0.108 χ^2/NDF :14801.3/8

Right Out: 150.932+/-0.110 χ^2/NDF : 499233.7/17

Left In: 234.471+/-0.104 χ^2/NDF :13470.1/8

Left: 235.335+/-0.075 χ^2/NDF : 28416.6/17

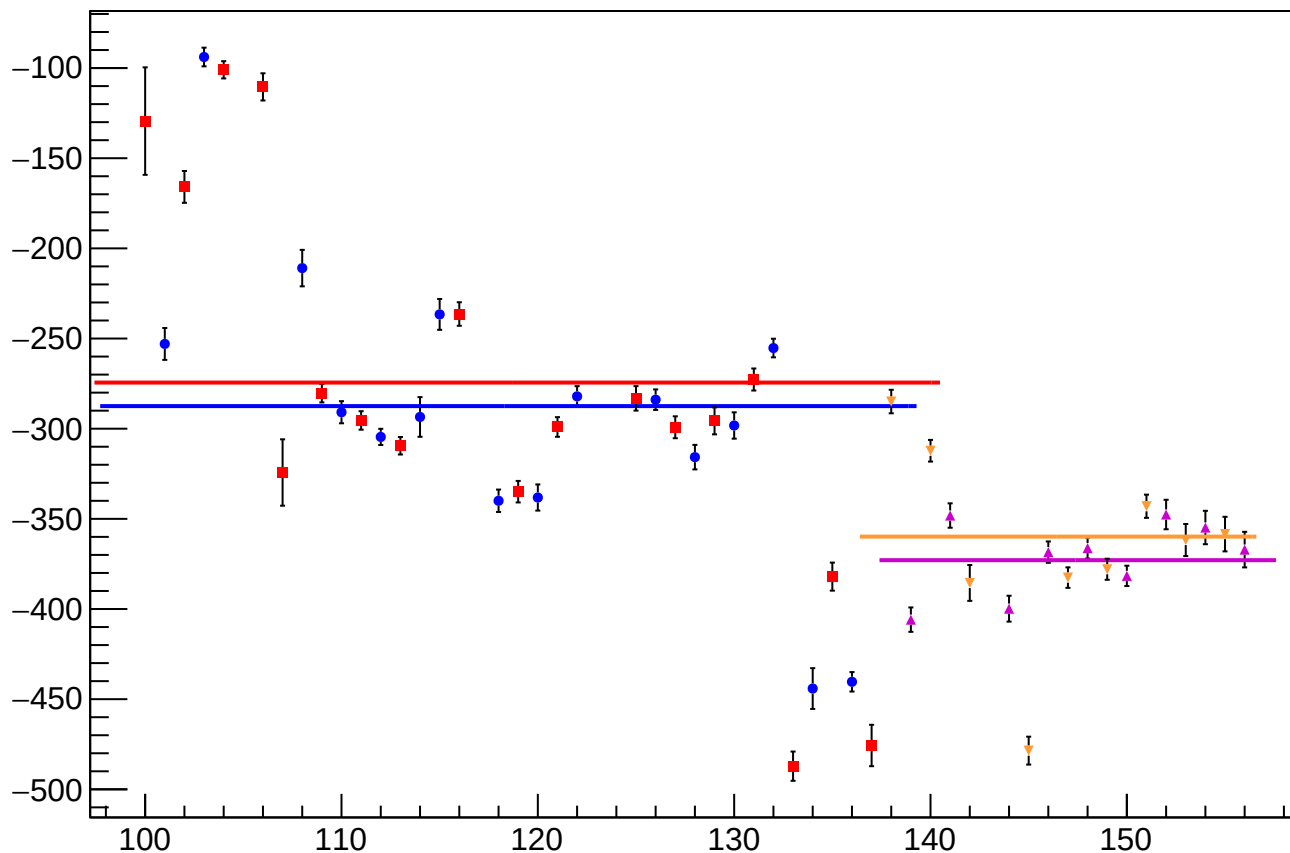
Right: 170.416+/-0.083 χ^2/NDF : 747517.5/33

In: 218.480+/-0.080 χ^2/NDF :248696.0/24

Out: 194.410+/-0.077 χ^2/NDF :819746.4/26

All: 206.058+/-0.055 χ^2/NDF : 1115532.5/51

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: -359.837+/-2.319 χ^2 /NDF:469.3/8

Right Out: -274.417+/-1.551 χ^2 /NDF: 3413.4/17

Left In: -372.916+/-2.298 χ^2 /NDF:69.3/8

Left: -366.438+/-1.632 χ^2 /NDF: 554.6/17

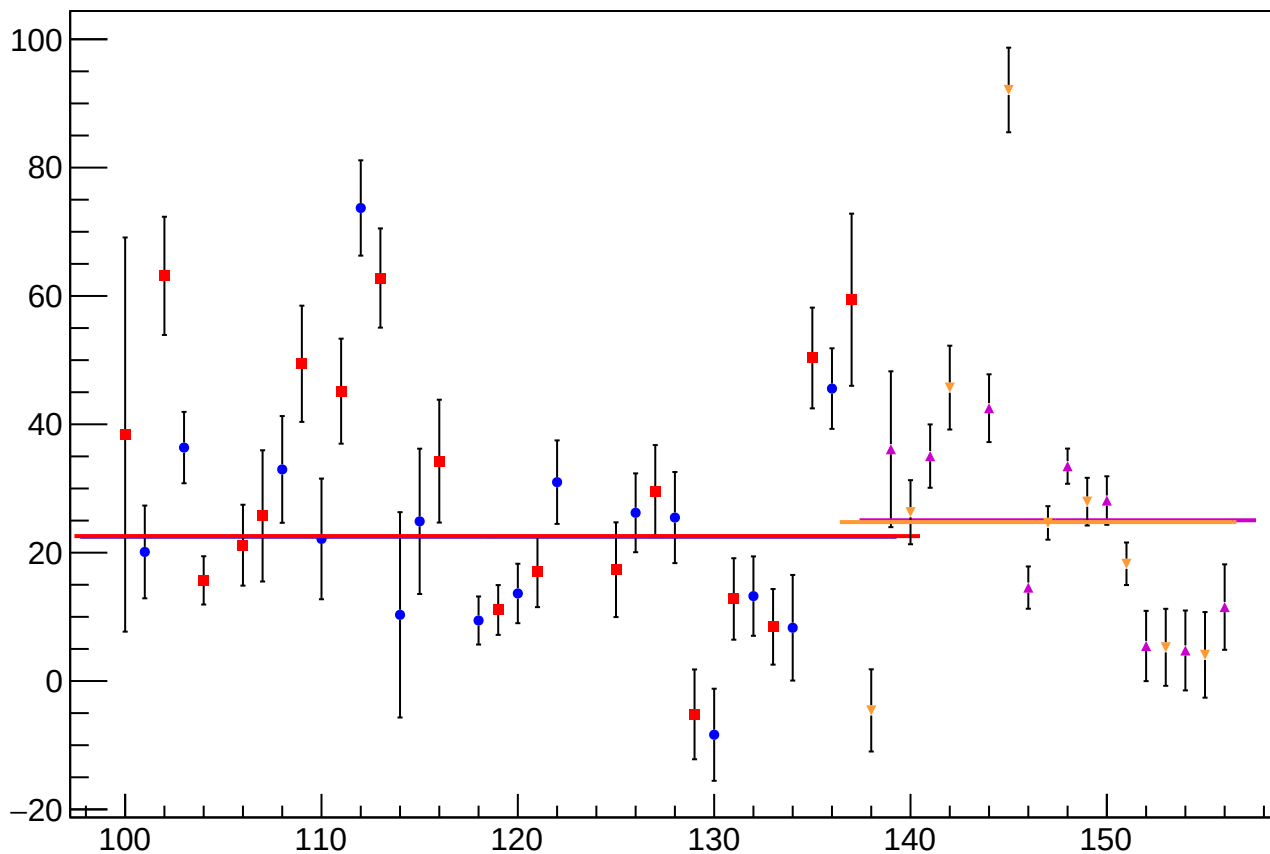
Right: -280.699+/-1.118 χ^2 /NDF: 6144.0/33

In: -315.642+/-1.319 χ^2 /NDF:3692.8/24

Out: -300.824+/-1.289 χ^2 /NDF:4819.9/26

All: -308.064+/-0.922 χ^2 /NDF: 8577.2/51

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: 24.767 $\pm$ 1.457 χ^2 /NDF:160.5/8

Right Out: 22.580 $\pm$ 1.570 χ^2 /NDF: 123.3/17

Left In: 25.050 $\pm$ 1.473 χ^2 /NDF:63.7/8

Left: 24.907 $\pm$ 1.036 χ^2 /NDF: 224.2/17

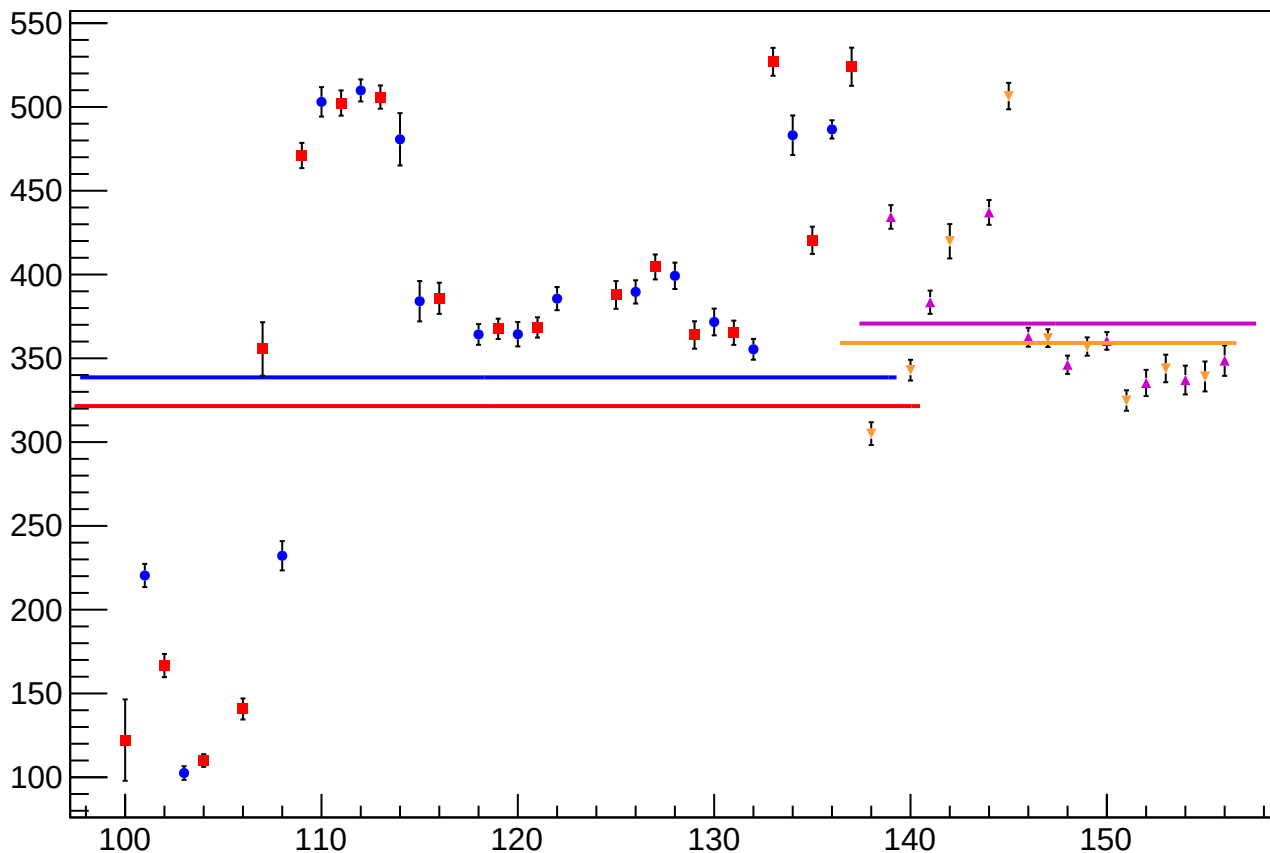
Right: 22.537 $\pm$ 1.128 χ^2 /NDF: 234.8/33

In: 23.893 $\pm$ 1.090 χ^2 /NDF:176.5/24

Out: 23.755 $\pm$ 1.068 χ^2 /NDF:284.9/26

All: 23.822 $\pm$ 0.763 χ^2 /NDF: 461.4/51

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 338.633+/-1.748 χ^2/NDF : 6042.6/15

Left Out: 359.136+/-2.255 χ^2/NDF : 495.4/8

Right Out: 321.500+/-1.694 χ^2/NDF : 7720.8/17

Left In: 370.735+/-2.224 χ^2/NDF : 233.6/8

Left: 365.015+/-1.584 χ^2/NDF : 742.5/17

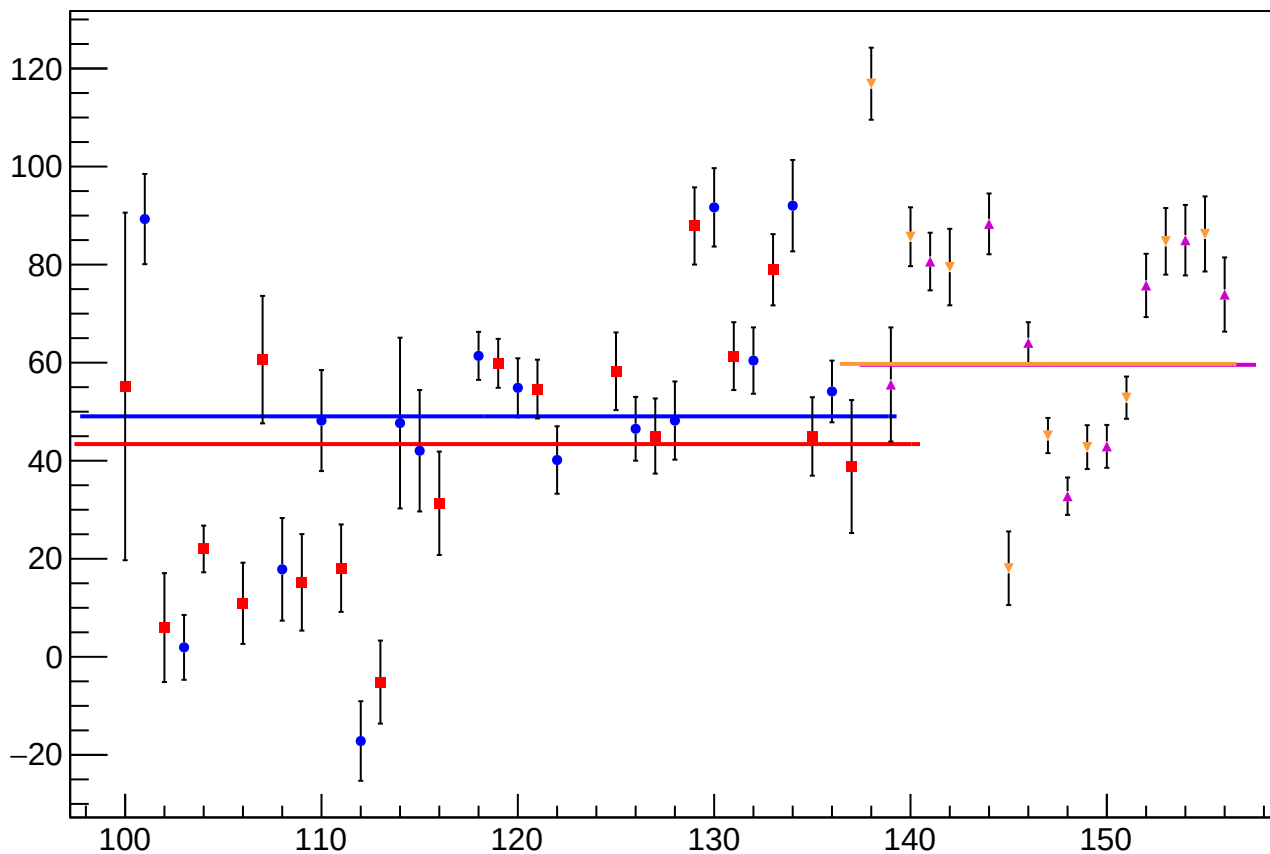
Right: 329.797+/-1.217 χ^2/NDF : 13813.0/33

In: 350.891+/-1.375 χ^2/NDF : 6405.0/24

Out: 335.078+/-1.355 χ^2/NDF : 8394.3/26

All: 342.868+/-0.965 χ^2/NDF : 14866.5/51

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: 59.743 $\pm$ 1.823 χ^2 /NDF:175.5/8

Right Out: 43.392 $\pm$ 1.834 χ^2 /NDF: 180.0/17

Left In: 59.561 $\pm$ 1.823 χ^2 /NDF:121.8/8

Left: 59.652 $\pm$ 1.289 χ^2 /NDF: 297.3/17

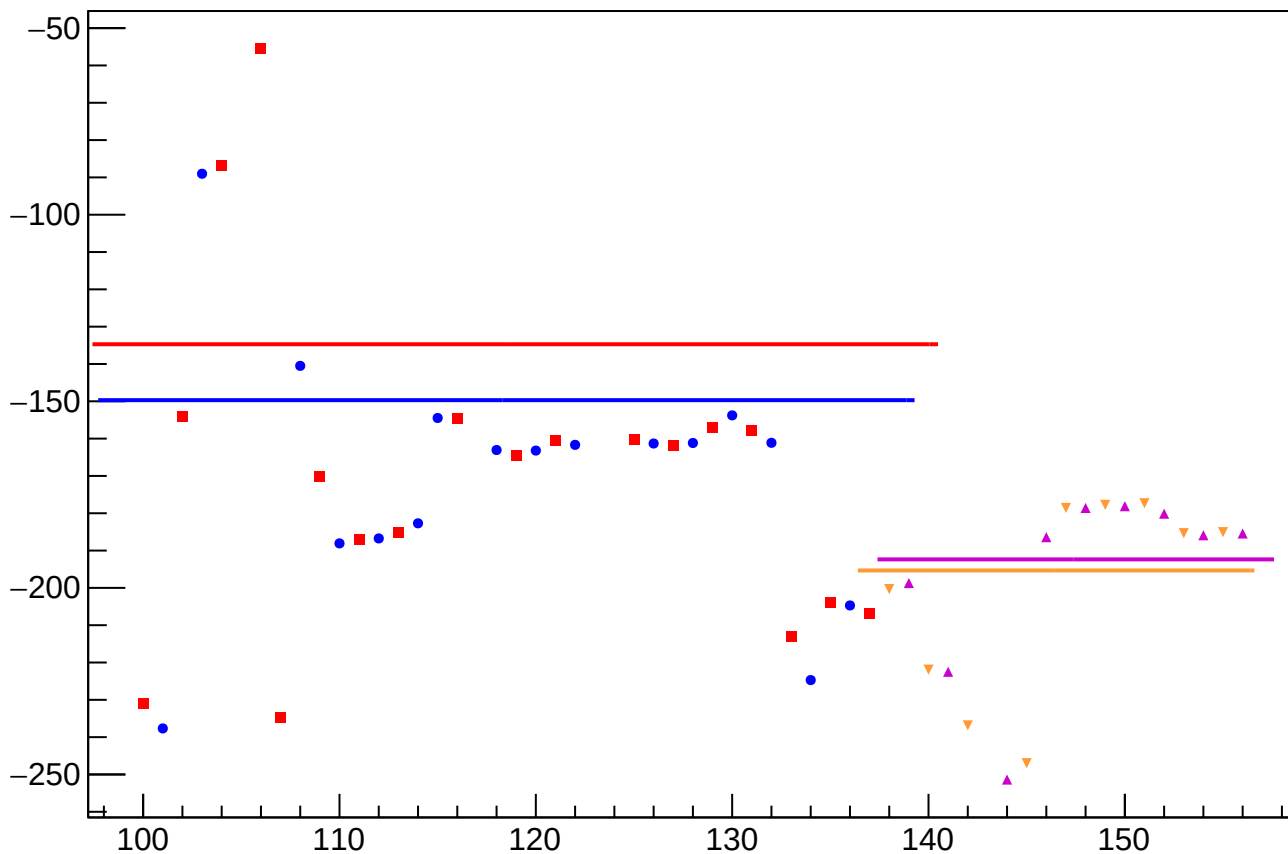
Right: 46.149 $\pm$ 1.314 χ^2 /NDF: 392.6/33

In: 54.475 $\pm$ 1.310 χ^2 /NDF:345.8/24

Out: 51.616 $\pm$ 1.293 χ^2 /NDF:395.5/26

All: 53.027 $\pm$ 0.920 χ^2 /NDF: 743.7/51

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -149.698 ± 0.101 $\chi^2/\text{NDF}: 256472.2/15$

Left Out: -195.334 ± 0.091 $\chi^2/\text{NDF}: 65615.8/8$

Right Out: -134.715 ± 0.097 $\chi^2/\text{NDF}: 312639.8/17$

Left In: -192.368 ± 0.087 $\chi^2/\text{NDF}: 55451.5/8$

Left: -193.775 ± 0.063 $\chi^2/\text{NDF}: 121622.0/17$

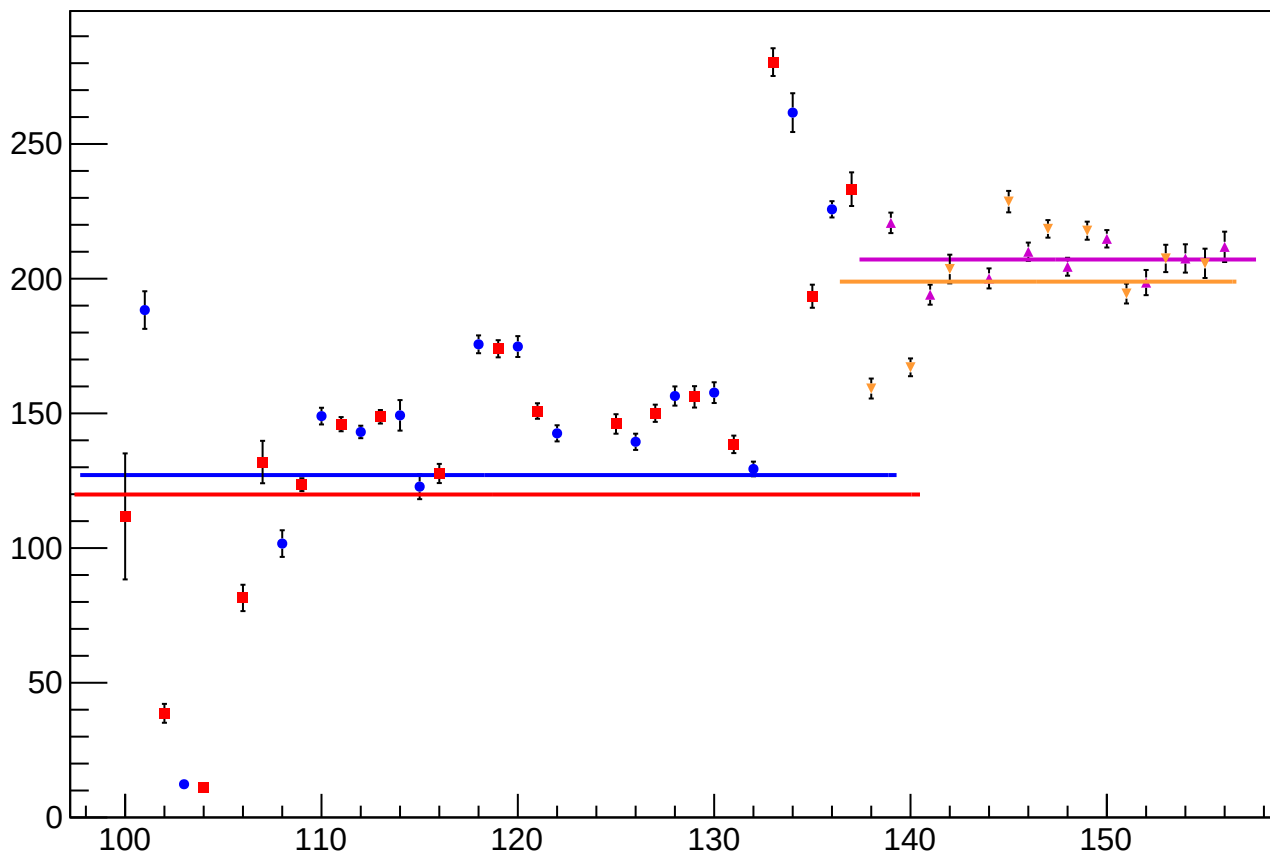
Right: -141.917 ± 0.070 $\chi^2/\text{NDF}: 580582.0/33$

In: -174.219 ± 0.066 $\chi^2/\text{NDF}: 414857.1/24$

Out: -166.861 ± 0.066 $\chi^2/\text{NDF}: 585378.0/26$

All: -170.580 ± 0.047 $\chi^2/\text{NDF}: 1006427.8/51$

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: 198.908 $\pm$ 1.300 χ^2 /NDF:337.5/8

Right Out: 119.886 $\pm$ 0.774 χ^2 /NDF: 6649.6/17

Left In: 207.120 $\pm$ 1.290 χ^2 /NDF:39.8/8

Left: 203.044 $\pm$ 0.916 χ^2 /NDF: 397.4/17

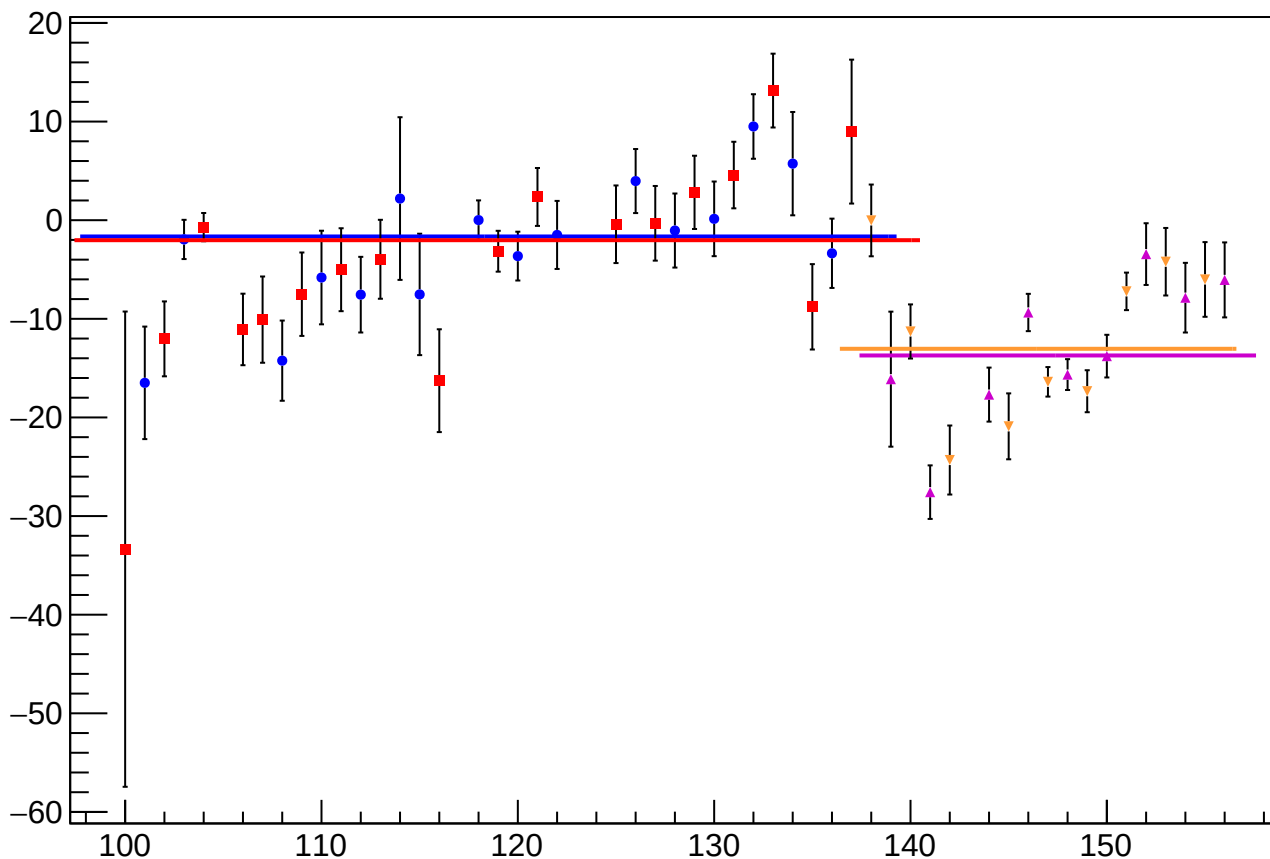
Right: 123.326 $\pm$ 0.560 χ^2 /NDF: 12854.2/33

In: 149.752 $\pm$ 0.687 χ^2 /NDF:8960.2/24

Out: 140.586 $\pm$ 0.665 χ^2 /NDF:9716.1/26

All: 145.024 $\pm$ 0.478 χ^2 /NDF: 18768.2/51

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.651 ± 0.833 $\chi^2/\text{NDF}: 39.1/15$

Left Out: -13.039 ± 0.823 $\chi^2/\text{NDF}: 57.7/8$

Right Out: -2.027 ± 0.770 $\chi^2/\text{NDF}: 58.6/17$

Left In: -13.716 ± 0.832 $\chi^2/\text{NDF}: 52.7/8$

Left: -13.373 ± 0.585 $\chi^2/\text{NDF}: 110.8/17$

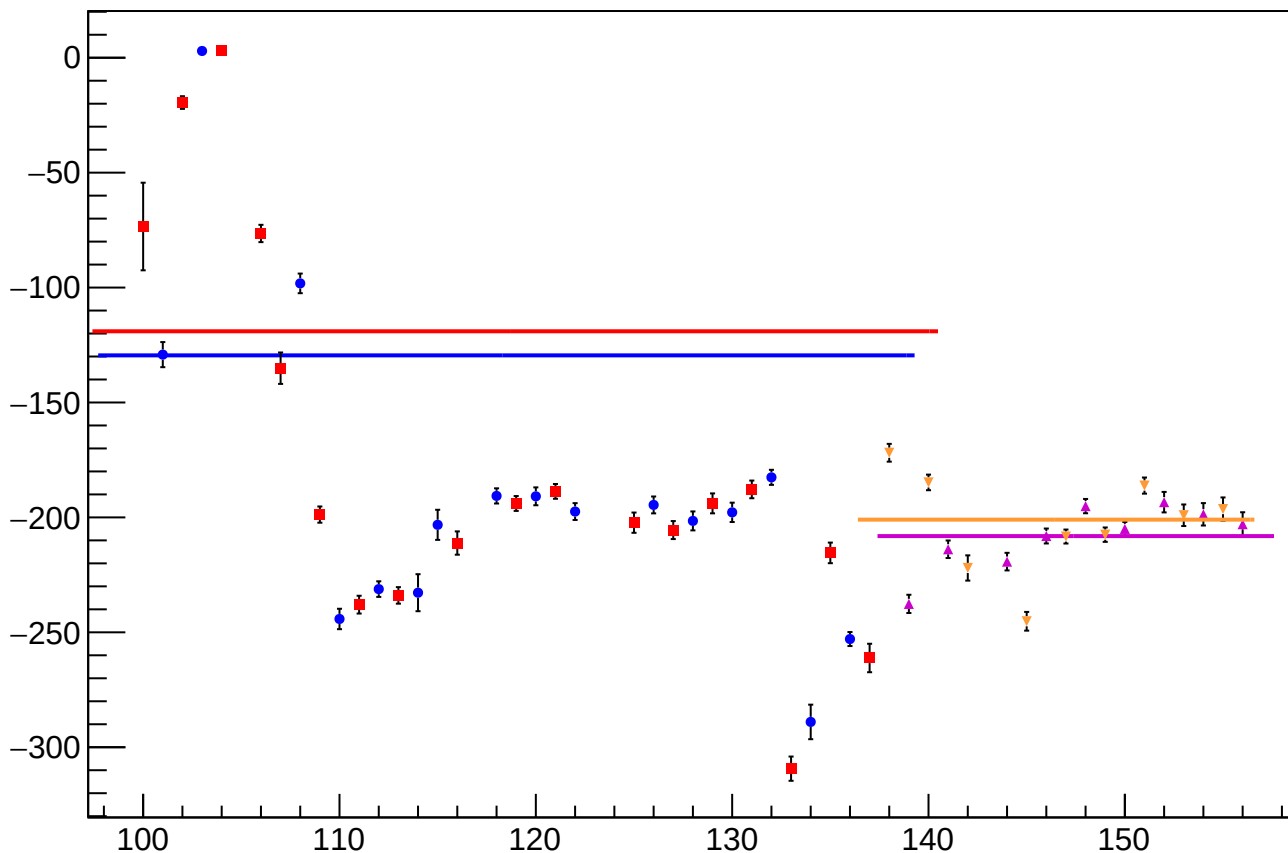
Right: -1.854 ± 0.565 $\chi^2/\text{NDF}: 97.8/33$

In: -7.686 ± 0.589 $\chi^2/\text{NDF}: 196.8/24$

Out: -7.171 ± 0.562 $\chi^2/\text{NDF}: 211.8/26$

All: -7.417 ± 0.407 $\chi^2/\text{NDF}: 409.0/51$

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: -200.978 ± 1.267 χ^2/NDF : 240.9/8

Right Out: -119.022 ± 0.813 χ^2/NDF : 16177.3/17

Left In: -208.130 ± 1.252 χ^2/NDF : 100.4/8

Left: -204.597 ± 0.890 χ^2/NDF : 357.5/17

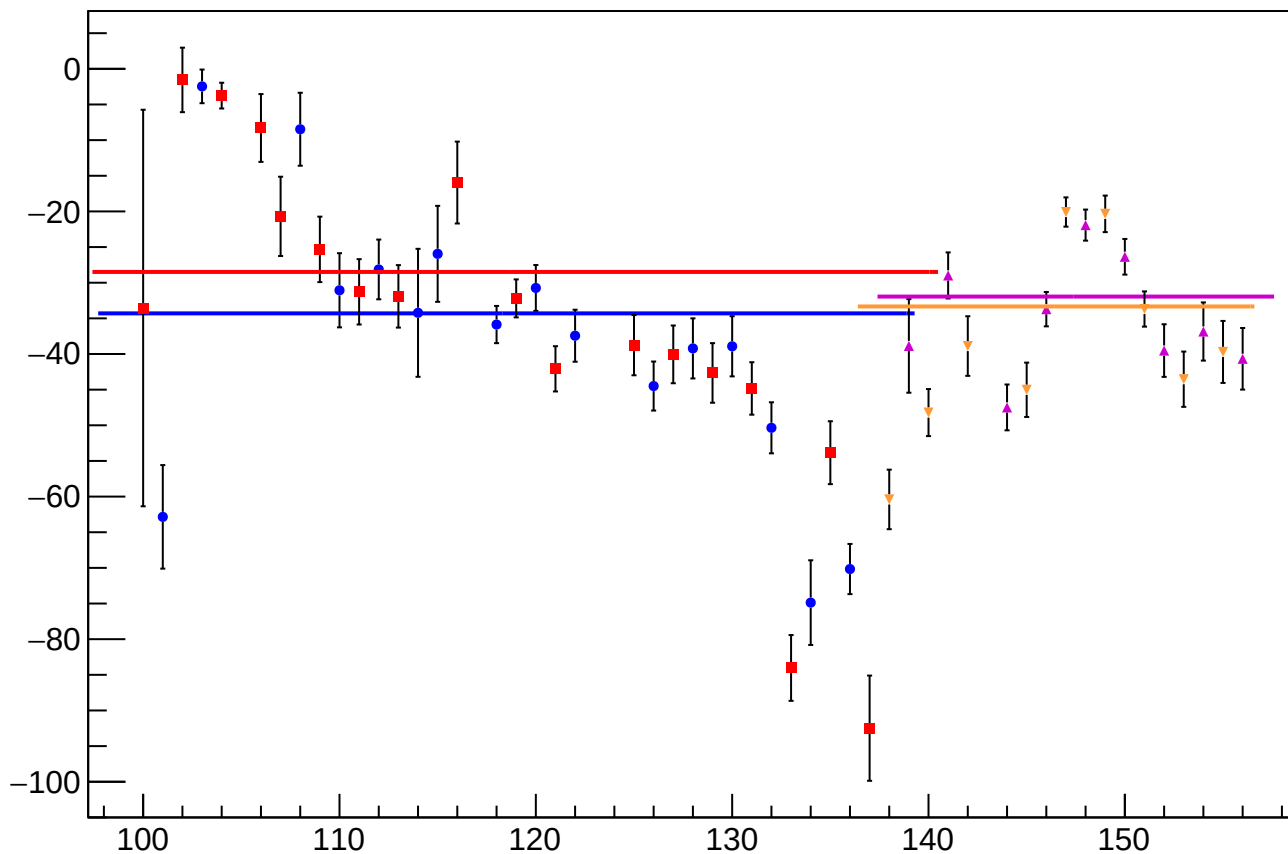
Right: -124.047 ± 0.586 χ^2/NDF : 30944.8/33

In: -154.168 ± 0.701 χ^2/NDF : 17496.4/24

Out: -142.923 ± 0.684 χ^2/NDF : 19383.3/26

All: -148.407 ± 0.490 χ^2/NDF : 37011.5/51

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.301 $\pm$ 0.968 χ^2 /NDF: 411.3/15

Left Out: -33.332 $\pm$ 1.027 χ^2 /NDF:149.9/8

Right Out: -28.488 $\pm$ 0.907 χ^2 /NDF: 568.0/17

Left In: -31.943 $\pm$ 1.028 χ^2 /NDF:61.8/8

Left: -32.638 $\pm$ 0.727 χ^2 /NDF: 212.6/17

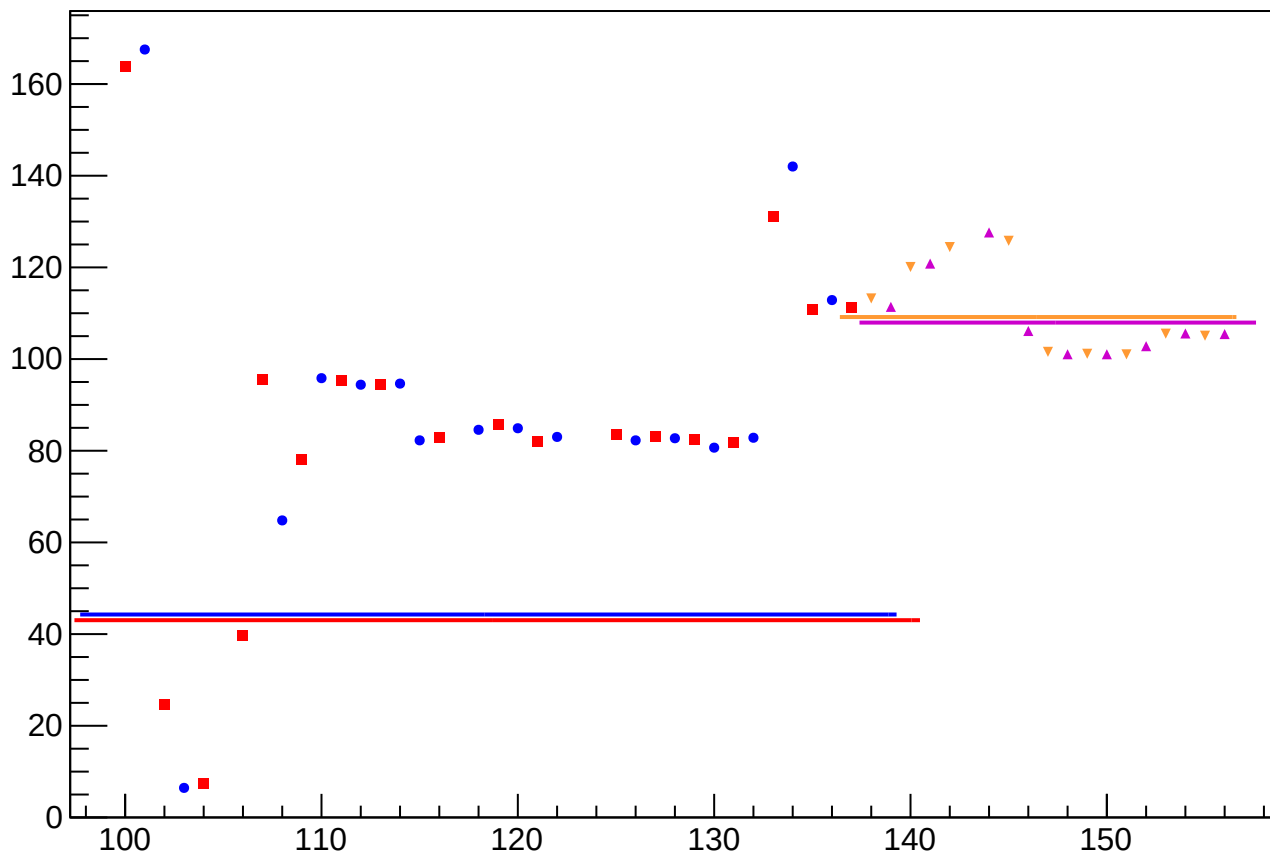
Right: -31.206 $\pm$ 0.662 χ^2 /NDF: 998.5/33

In: -33.194 $\pm$ 0.705 χ^2 /NDF:475.9/24

Out: -30.610 $\pm$ 0.680 χ^2 /NDF:730.4/26

All: -31.855 $\pm$ 0.489 χ^2 /NDF: 1213.3/51

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: 109.170+/-0.051 χ^2/NDF : 32438.6/8

Right Out: 43.035+/-0.045 χ^2/NDF : 805108.5/17

Left In: 107.958+/-0.049 χ^2/NDF : 28375.8/8

Left: 108.535+/-0.035 χ^2/NDF : 61106.6/17

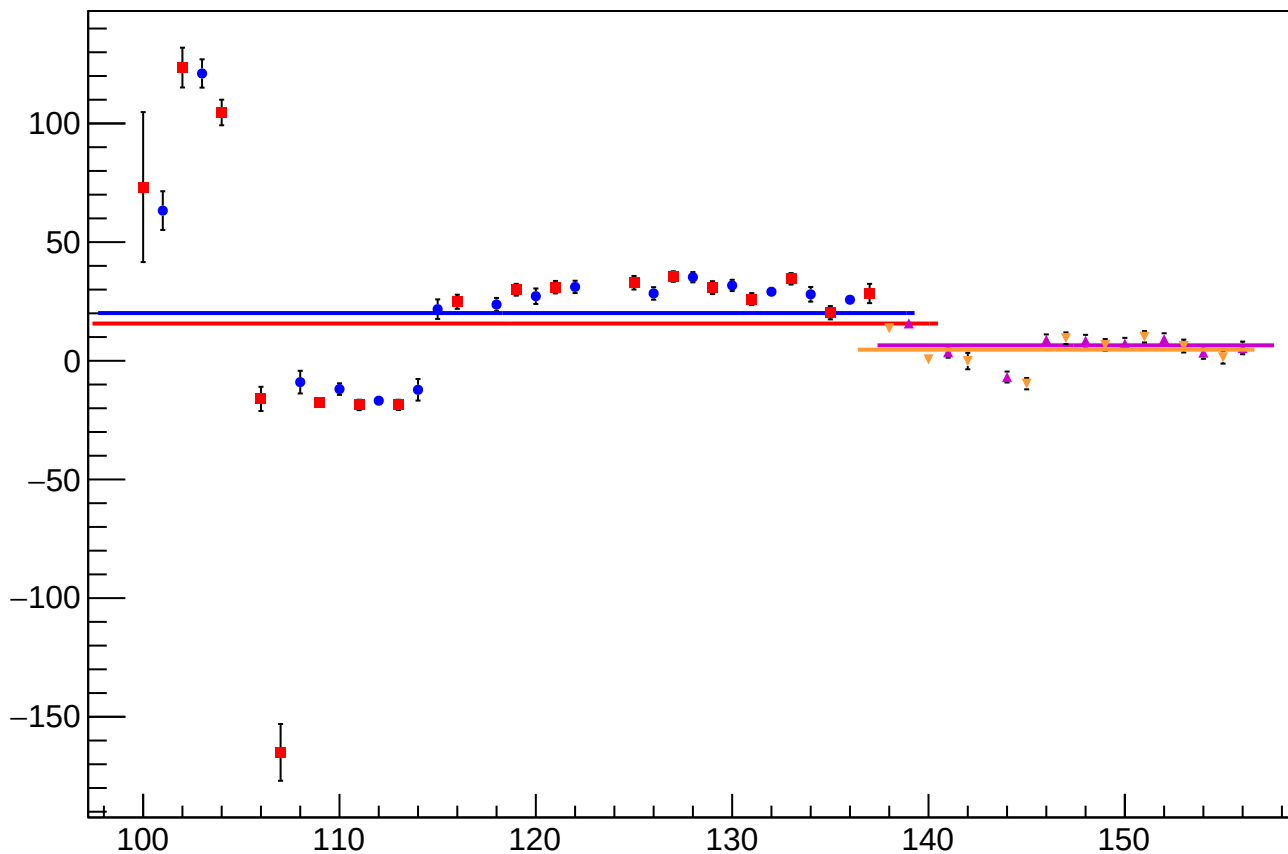
Right: 43.656+/-0.032 χ^2/NDF : 1890570.2/33

In: 73.421+/-0.033 χ^2/NDF : 2032508.8/24

Out: 71.823+/-0.034 χ^2/NDF : 1776257.8/26

All: 72.640+/-0.024 χ^2/NDF : 3809906.9/51

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 20.117+/-0.687 χ^2/NDF : 1048.1/15

Left Out: 4.689+/-0.818 χ^2/NDF : 71.2/8

Right Out: 15.700+/-0.682 χ^2/NDF : 1773.8/17

Left In: 6.519+/-0.791 χ^2/NDF : 60.7/8

Left: 5.635+/-0.569 χ^2/NDF : 134.5/17

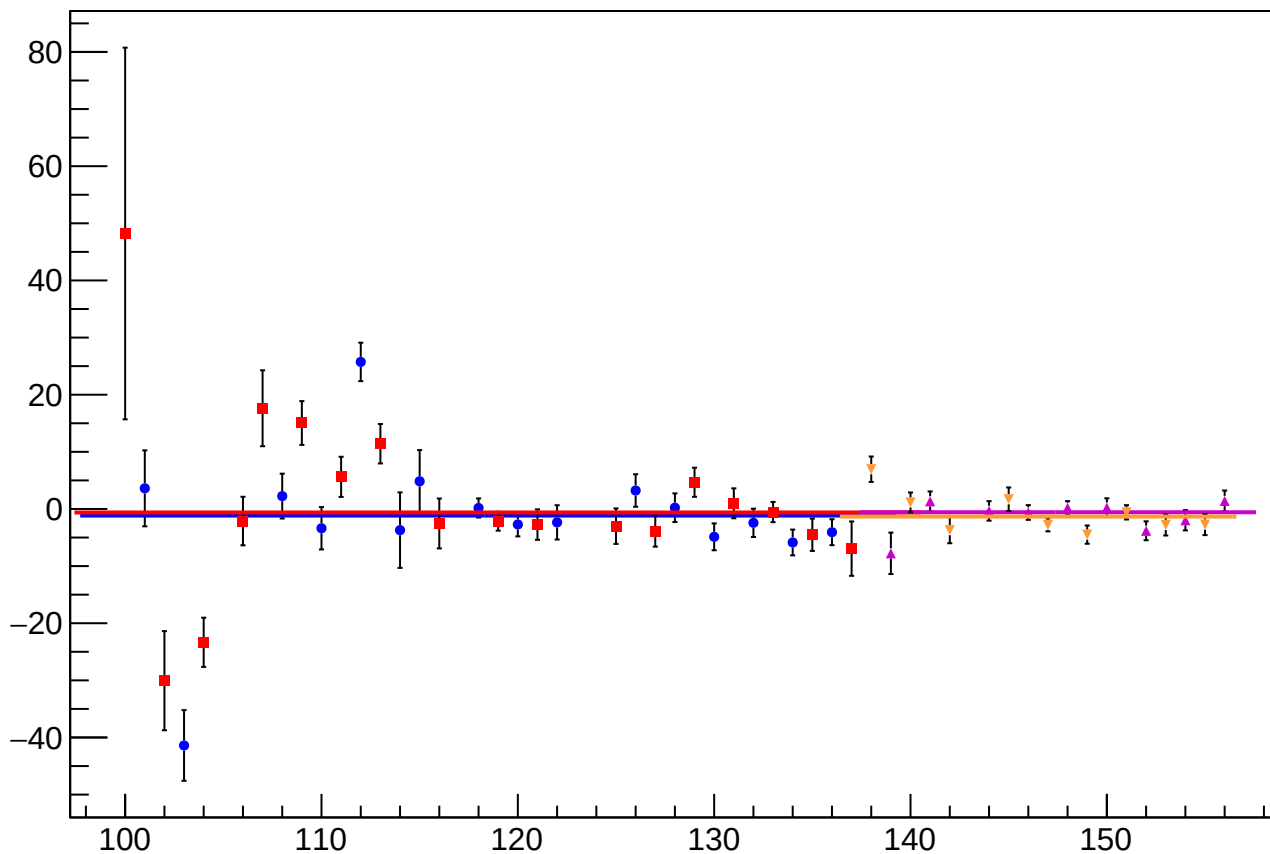
Right: 17.893+/-0.484 χ^2/NDF : 2842.7/33

In: 14.270+/-0.519 χ^2/NDF : 1277.3/24

Out: 11.184+/-0.524 χ^2/NDF : 1951.9/26

All: 12.742+/-0.369 χ^2/NDF : 3246.7/51

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: -1.325 ± 0.547 χ^2/NDF : 26.2/8

Right Out: -0.614 ± 0.713 χ^2/NDF : 93.4/17

Left In: -0.572 ± 0.538 χ^2/NDF : 11.5/8

Left: -0.942 ± 0.384 χ^2/NDF : 38.7/17

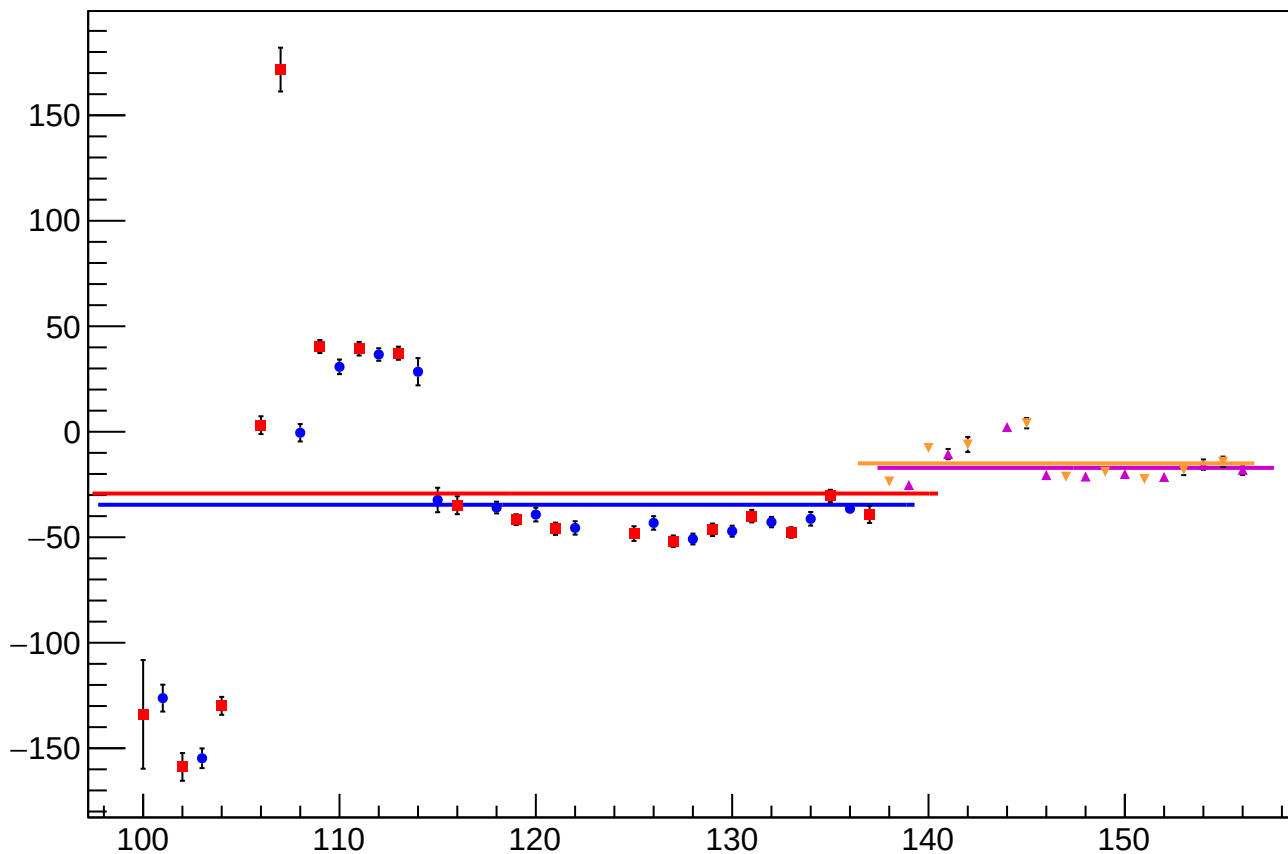
Right: -0.888 ± 0.499 χ^2/NDF : 215.5/33

In: -0.787 ± 0.426 χ^2/NDF : 133.8/24

Out: -1.062 ± 0.434 χ^2/NDF : 120.2/26

All: -0.922 ± 0.304 χ^2/NDF : 254.2/51

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -34.598 ± 0.786 χ^2/NDF : 2058.4/15

Left Out: -14.983 ± 0.800 χ^2/NDF : 116.6/8

Right Out: -29.277 ± 0.800 χ^2/NDF : 3081.1/17

Left In: -17.116 ± 0.770 χ^2/NDF : 99.9/8

Left: -16.091 ± 0.555 χ^2/NDF : 220.2/17

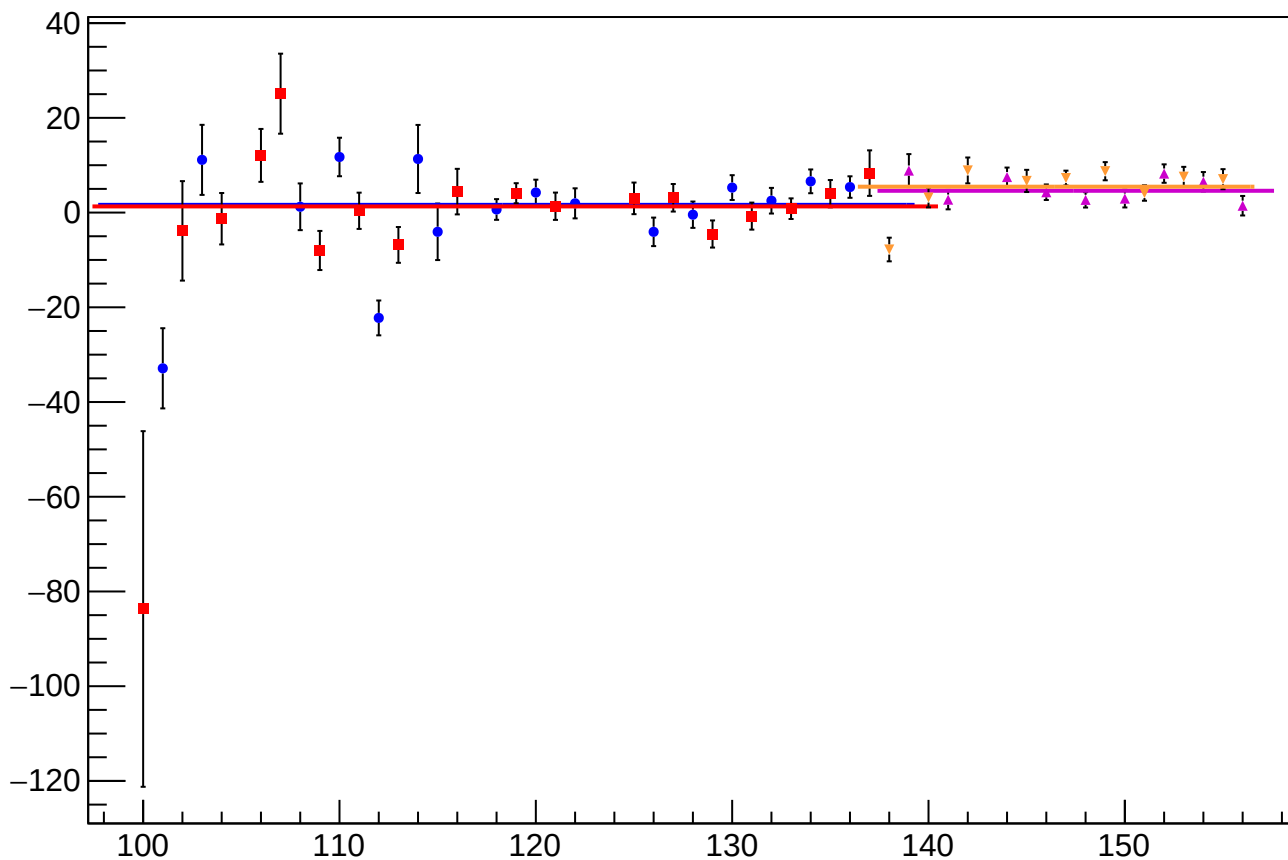
Right: -31.983 ± 0.561 χ^2/NDF : 5162.0/33

In: -25.670 ± 0.550 χ^2/NDF : 2410.9/24

Out: -22.135 ± 0.566 χ^2/NDF : 3357.3/26

All: -23.953 ± 0.394 χ^2/NDF : 5788.2/51

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.630 ± 0.797 χ^2/NDF : 83.3/15

Left Out: 5.465 ± 0.671 χ^2/NDF : 37.8/8

Right Out: 1.298 ± 0.817 χ^2/NDF : 37.5/17

Left In: 4.601 ± 0.653 χ^2/NDF : 13.3/8

Left: 5.021 ± 0.468 χ^2/NDF : 52.0/17

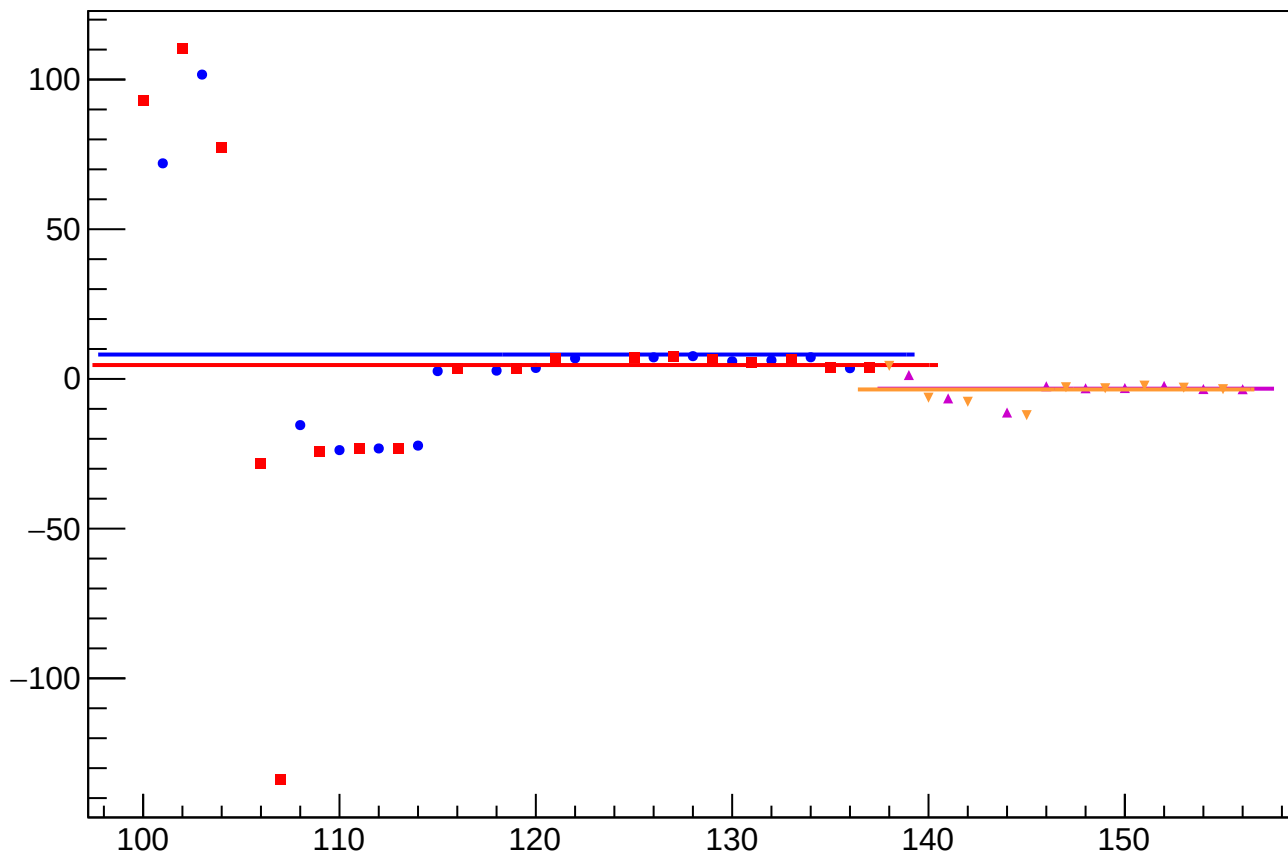
Right: 1.468 ± 0.570 χ^2/NDF : 120.9/33

In: 3.407 ± 0.505 χ^2/NDF : 104.9/24

Out: 3.786 ± 0.518 χ^2/NDF : 90.9/26

All: 3.592 ± 0.362 χ^2/NDF : 196.1/51

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 8.146 ± 0.048 $\chi^2/\text{NDF}: 313350.7/15$

Left Out: -3.513 ± 0.031 $\chi^2/\text{NDF}: 18359.0/8$

Right Out: 4.638 ± 0.052 $\chi^2/\text{NDF}: 446805.7/17$

Left In: -3.260 ± 0.029 $\chi^2/\text{NDF}: 10651.8/8$

Left: -3.377 ± 0.021 $\chi^2/\text{NDF}: 29045.6/17$

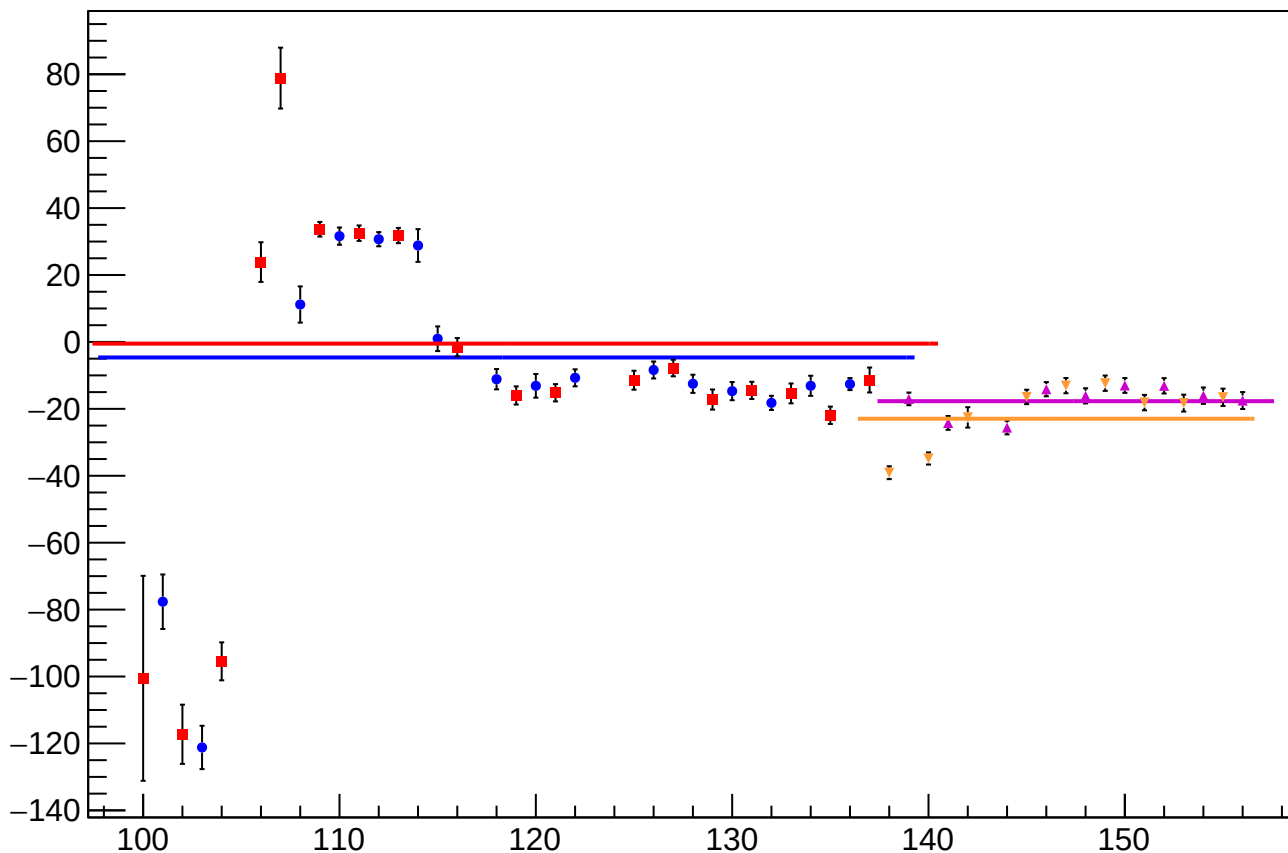
Right: 6.508 ± 0.035 $\chi^2/\text{NDF}: 762611.1/33$

In: -0.212 ± 0.025 $\chi^2/\text{NDF}: 364743.0/24$

Out: -1.312 ± 0.027 $\chi^2/\text{NDF}: 483319.2/26$

All: -0.723 ± 0.018 $\chi^2/\text{NDF}: 848961.4/51$

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: -22.952 ± 0.751 χ^2/NDF : 176.5/8

Right Out: -0.505 ± 0.711 χ^2/NDF : 1457.8/17

Left In: -17.703 ± 0.728 χ^2/NDF : 37.3/8

Left: -20.246 ± 0.523 χ^2/NDF : 239.0/17

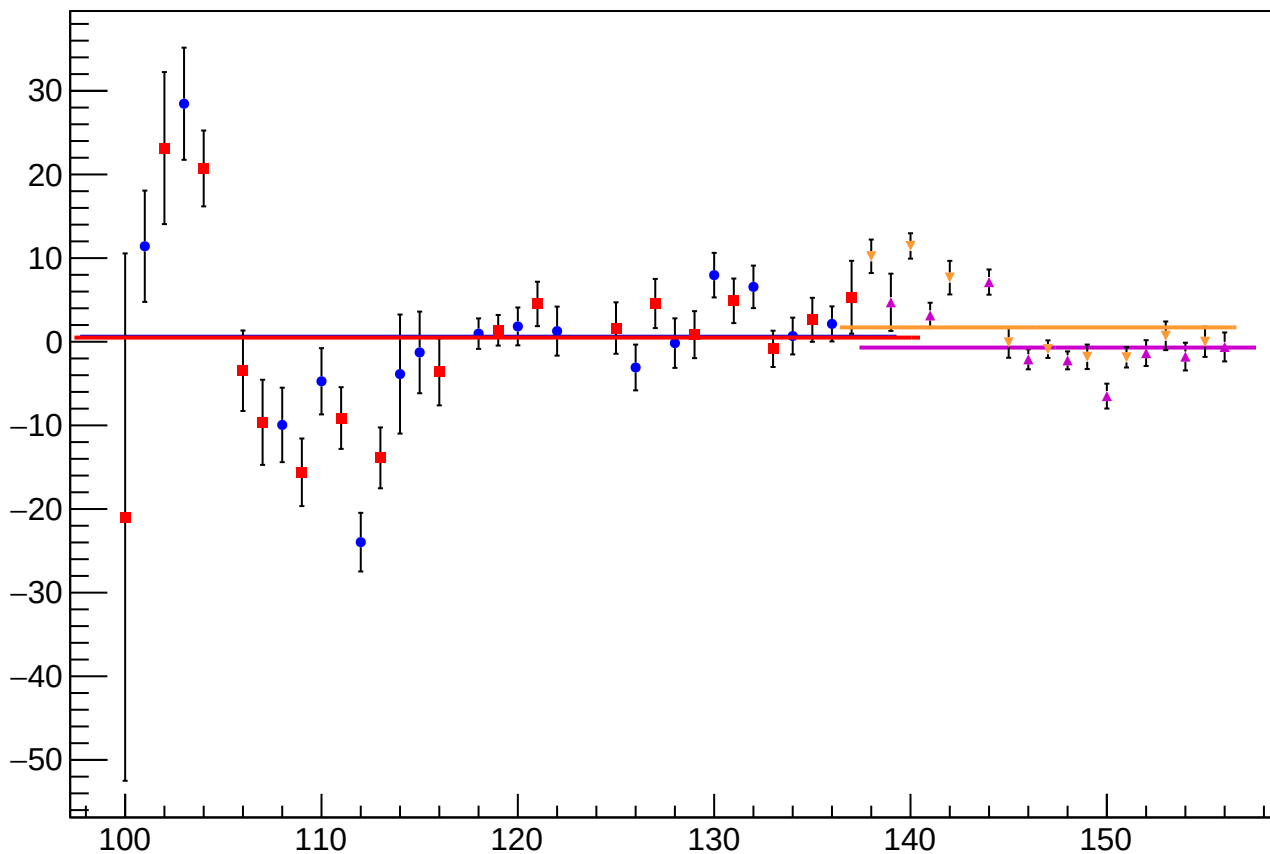
Right: -2.571 ± 0.503 χ^2/NDF : 2521.0/33

In: -11.022 ± 0.509 χ^2/NDF : 1248.2/24

Out: -11.113 ± 0.516 χ^2/NDF : 2105.5/26

All: -11.067 ± 0.362 χ^2/NDF : 3353.8/51

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: 1.715 ± 0.505 $\chi^2/\text{NDF}: 90.7/8$

Right Out: 0.496 ± 0.755 $\chi^2/\text{NDF}: 80.2/17$

Left In: -0.696 ± 0.494 $\chi^2/\text{NDF}: 55.1/8$

Left: 0.483 ± 0.353 $\chi^2/\text{NDF}: 157.5/17$

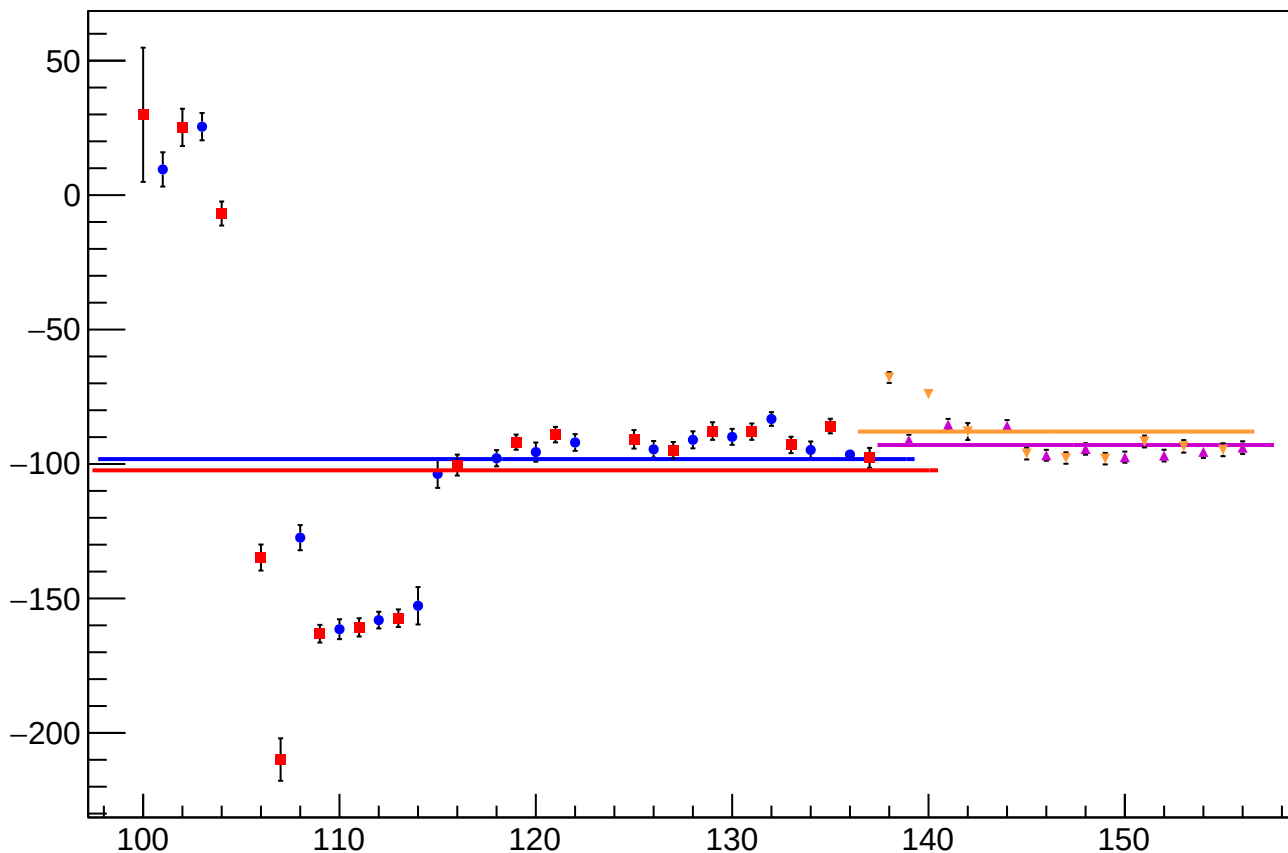
Right: 0.551 ± 0.524 $\chi^2/\text{NDF}: 173.0/33$

In: -0.286 ± 0.409 $\chi^2/\text{NDF}: 150.2/24$

Out: 1.339 ± 0.420 $\chi^2/\text{NDF}: 172.7/26$

All: 0.504 ± 0.293 $\chi^2/\text{NDF}: 330.5/51$

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: -87.937 ± 0.737 χ^2/NDF : 229.7/8

Right Out: -102.349 ± 0.837 χ^2/NDF : 2117.5/17

Left In: -92.938 ± 0.709 χ^2/NDF : 38.9/8

Left: -90.533 ± 0.511 χ^2/NDF : 292.5/17

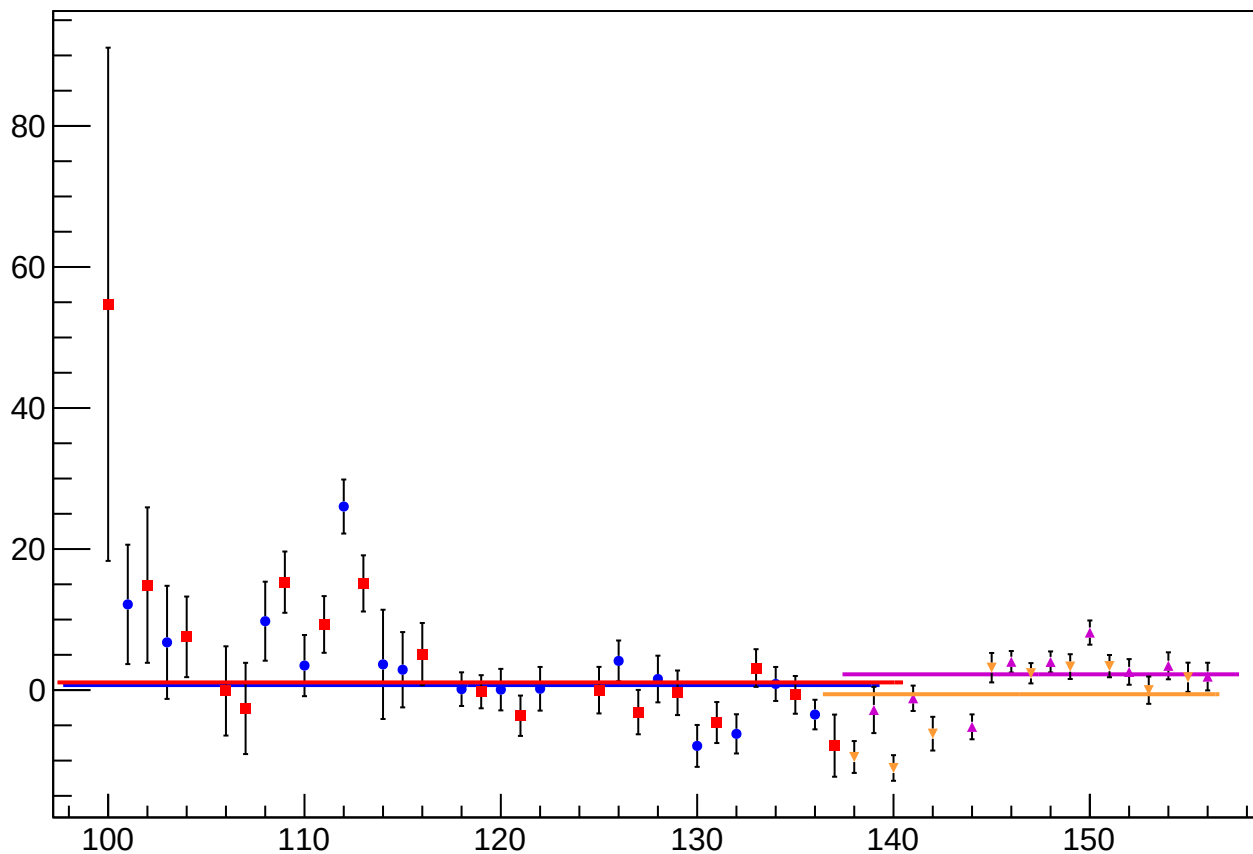
Right: -100.197 ± 0.583 χ^2/NDF : 3830.3/33

In: -95.199 ± 0.534 χ^2/NDF : 1762.3/24

Out: -94.227 ± 0.553 χ^2/NDF : 2514.3/26

All: -94.729 ± 0.384 χ^2/NDF : 4278.2/51

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.711 ± 0.821 χ^2/NDF : 69.6/15

Left Out: -0.589 ± 0.619 χ^2/NDF : 74.4/8

Right Out: 1.088 ± 0.856 χ^2/NDF : 47.7/17

Left In: 2.235 ± 0.600 χ^2/NDF : 38.8/8

Left: 0.867 ± 0.431 χ^2/NDF : 123.9/17

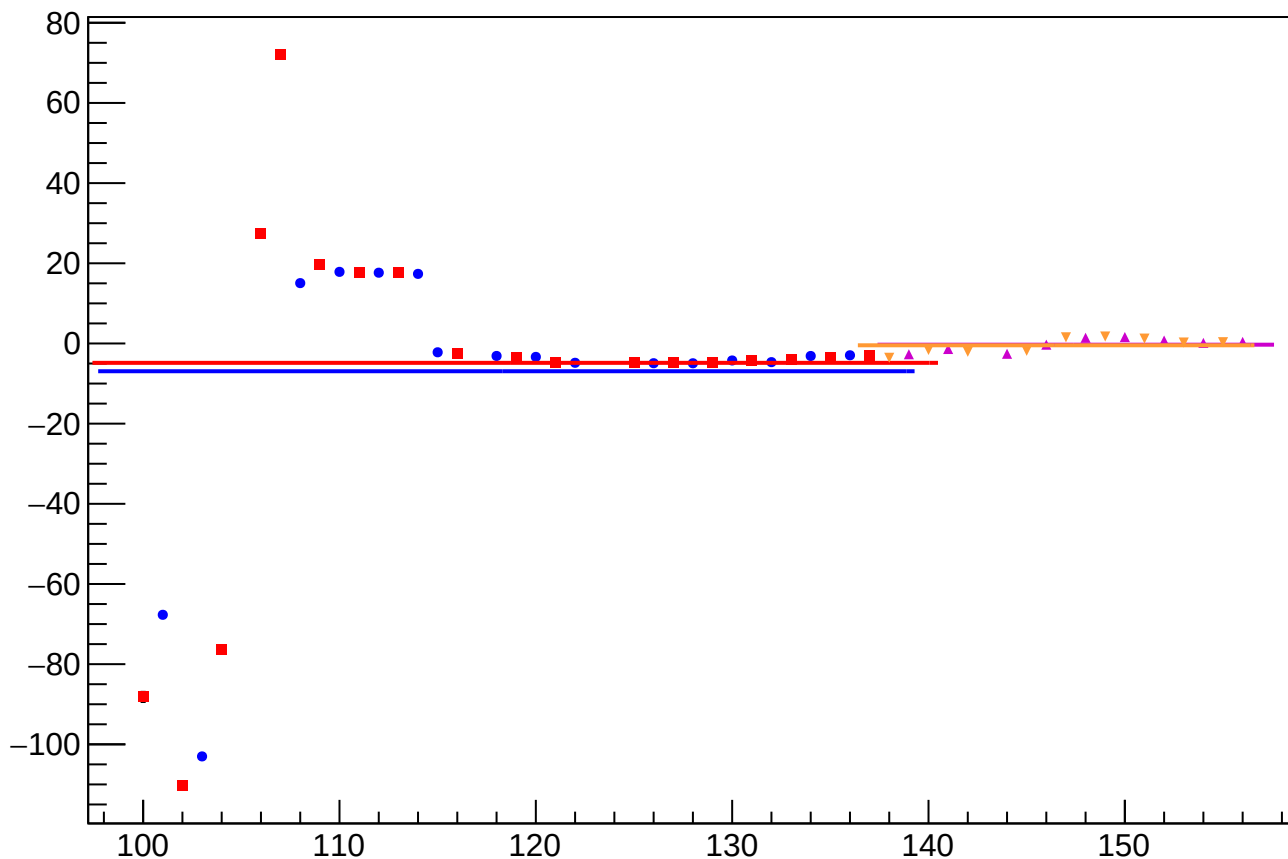
Right: 0.892 ± 0.593 χ^2/NDF : 117.4/33

In: 1.705 ± 0.484 χ^2/NDF : 110.7/24

Out: -0.013 ± 0.502 χ^2/NDF : 124.6/26

All: 0.875 ± 0.348 χ^2/NDF : 241.3/51

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.927 ± 0.049 $\chi^2/\text{NDF}: 265187.0/15$

Left Out: -0.454 ± 0.029 $\chi^2/\text{NDF}: 3736.0/8$

Right Out: -4.833 ± 0.053 $\chi^2/\text{NDF}: 339363.3/17$

Left In: -0.305 ± 0.027 $\chi^2/\text{NDF}: 3105.2/8$

Left: -0.374 ± 0.020 $\chi^2/\text{NDF}: 6855.4/17$

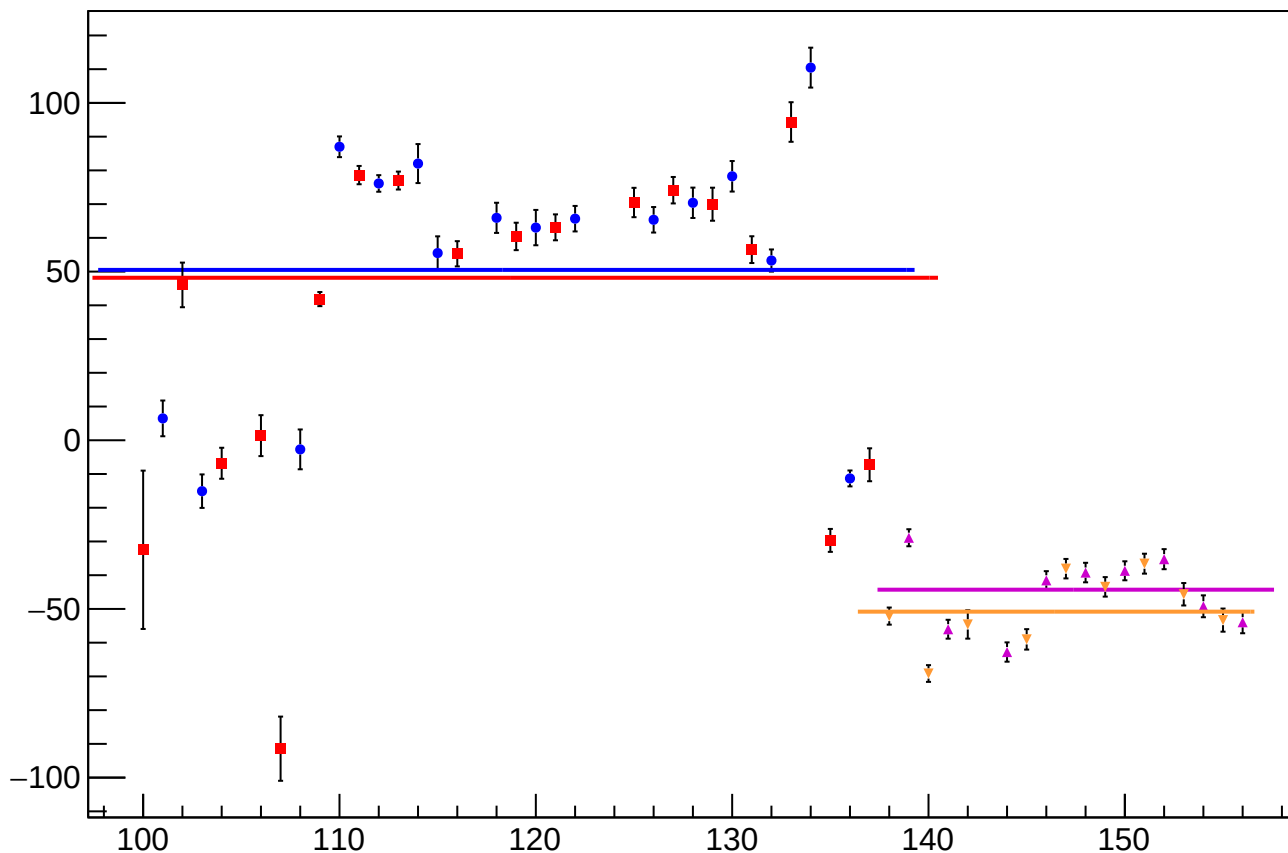
Right: -5.968 ± 0.036 $\chi^2/\text{NDF}: 605403.2/33$

In: -1.873 ± 0.024 $\chi^2/\text{NDF}: 282501.6/24$

Out: -1.474 ± 0.025 $\chi^2/\text{NDF}: 348373.2/26$

All: -1.689 ± 0.017 $\chi^2/\text{NDF}: 631006.9/51$

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: -50.805+/-0.994 χ^2/NDF :115.1/8

Right Out: 48.172+/-0.914 χ^2/NDF : 1519.5/17

Left In: -44.293+/-0.958 χ^2/NDF :124.8/8

Left: -47.431+/-0.690 χ^2/NDF : 262.2/17

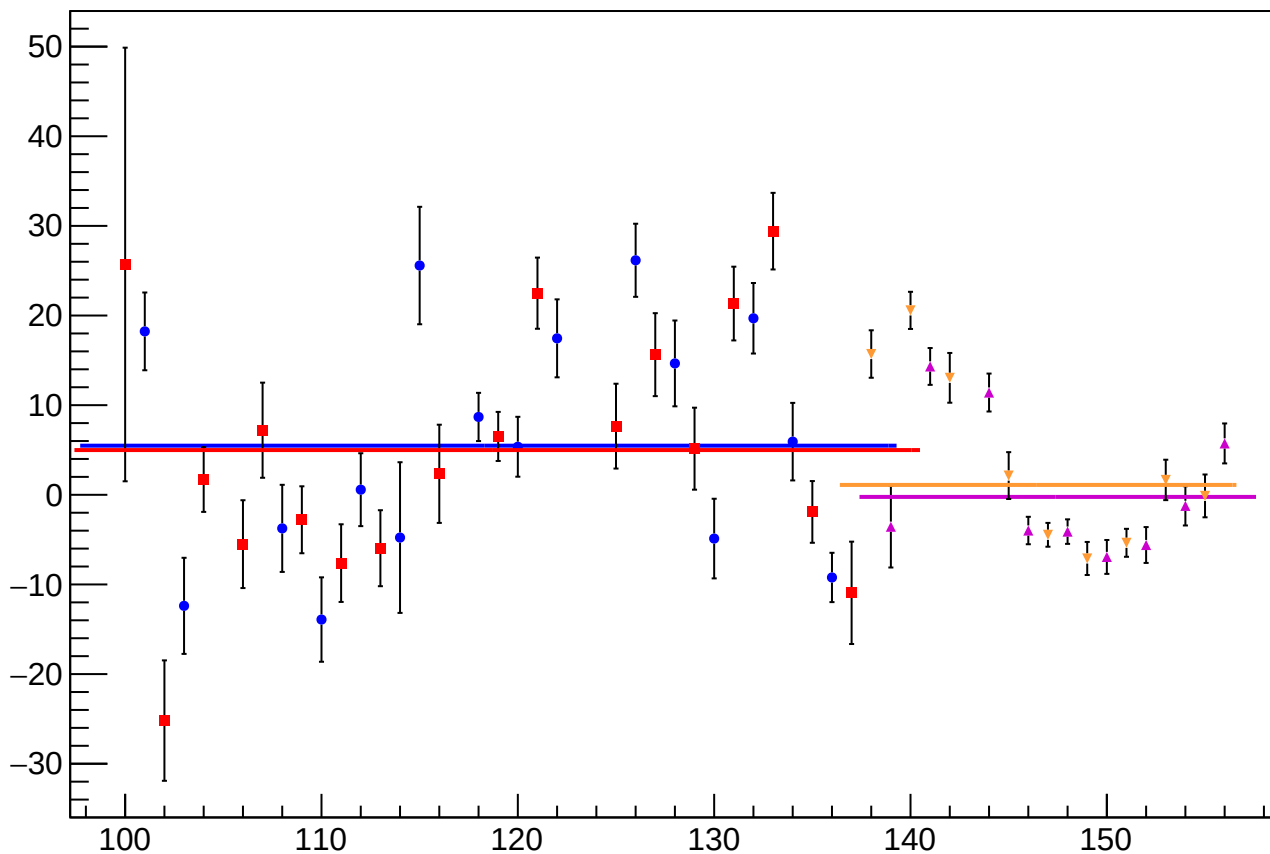
Right: 49.274+/-0.664 χ^2/NDF : 3026.2/33

In: 2.759+/-0.680 χ^2/NDF :6485.3/24

Out: 2.792+/-0.673 χ^2/NDF :7007.8/26

All: 2.775+/-0.478 χ^2/NDF : 13493.1/51

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.481+/-1.021 χ^2/NDF : 138.2/15

Left Out: 1.102+/-0.660 χ^2/NDF :192.2/8

Right Out: 4.992+/-1.023 χ^2/NDF : 131.8/17

Left In: -0.235+/-0.644 χ^2/NDF :122.1/8

Left: 0.418+/-0.461 χ^2/NDF : 316.4/17

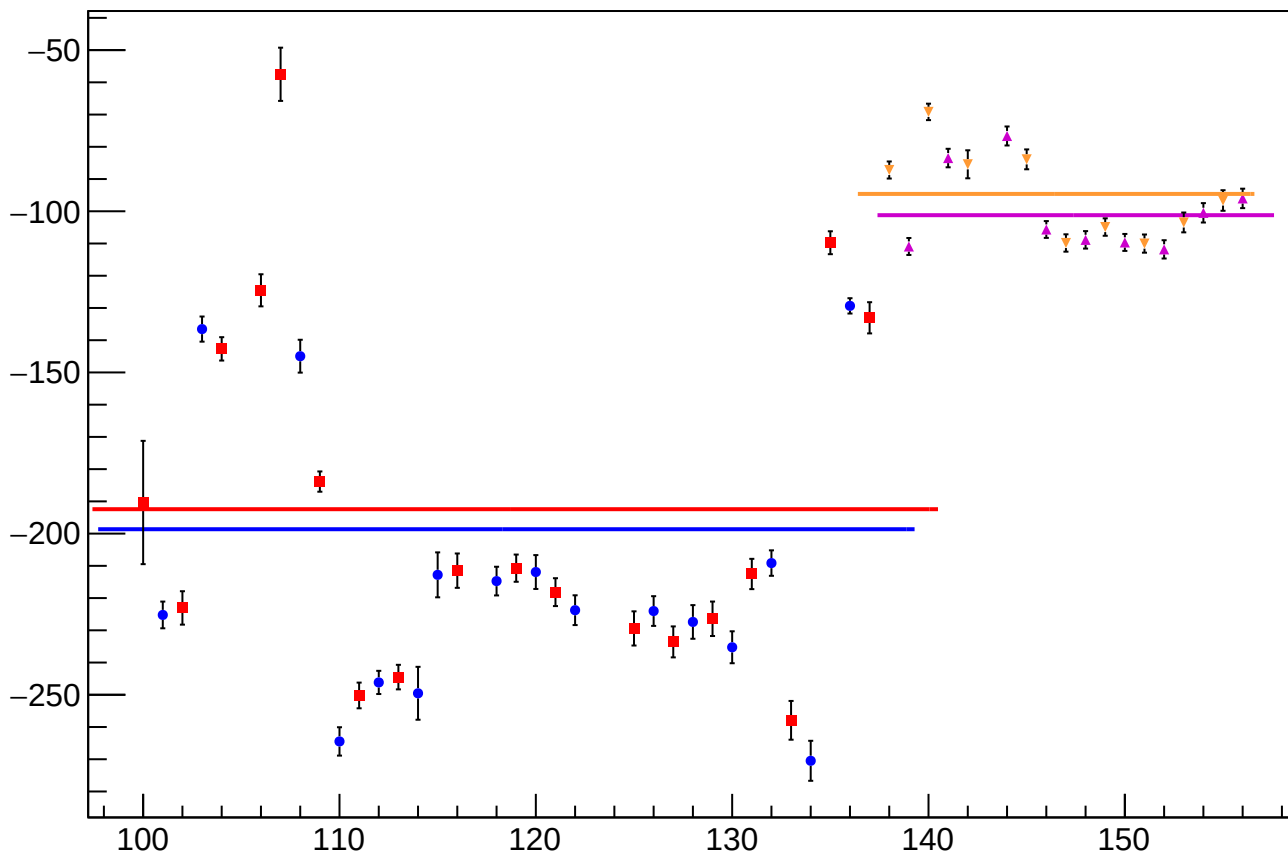
Right: 5.236+/-0.723 χ^2/NDF : 270.1/33

In: 1.392+/-0.545 χ^2/NDF :282.7/24

Out: 2.246+/-0.555 χ^2/NDF :334.2/26

All: 1.812+/-0.389 χ^2/NDF : 618.1/51

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: -94.618 ± 0.972 χ^2/NDF : 208.9/8

Right Out: -192.426 ± 1.080 χ^2/NDF : 2139.0/17

Left In: -101.215 ± 0.931 χ^2/NDF : 159.5/8

Left: -98.057 ± 0.672 χ^2/NDF : 392.4/17

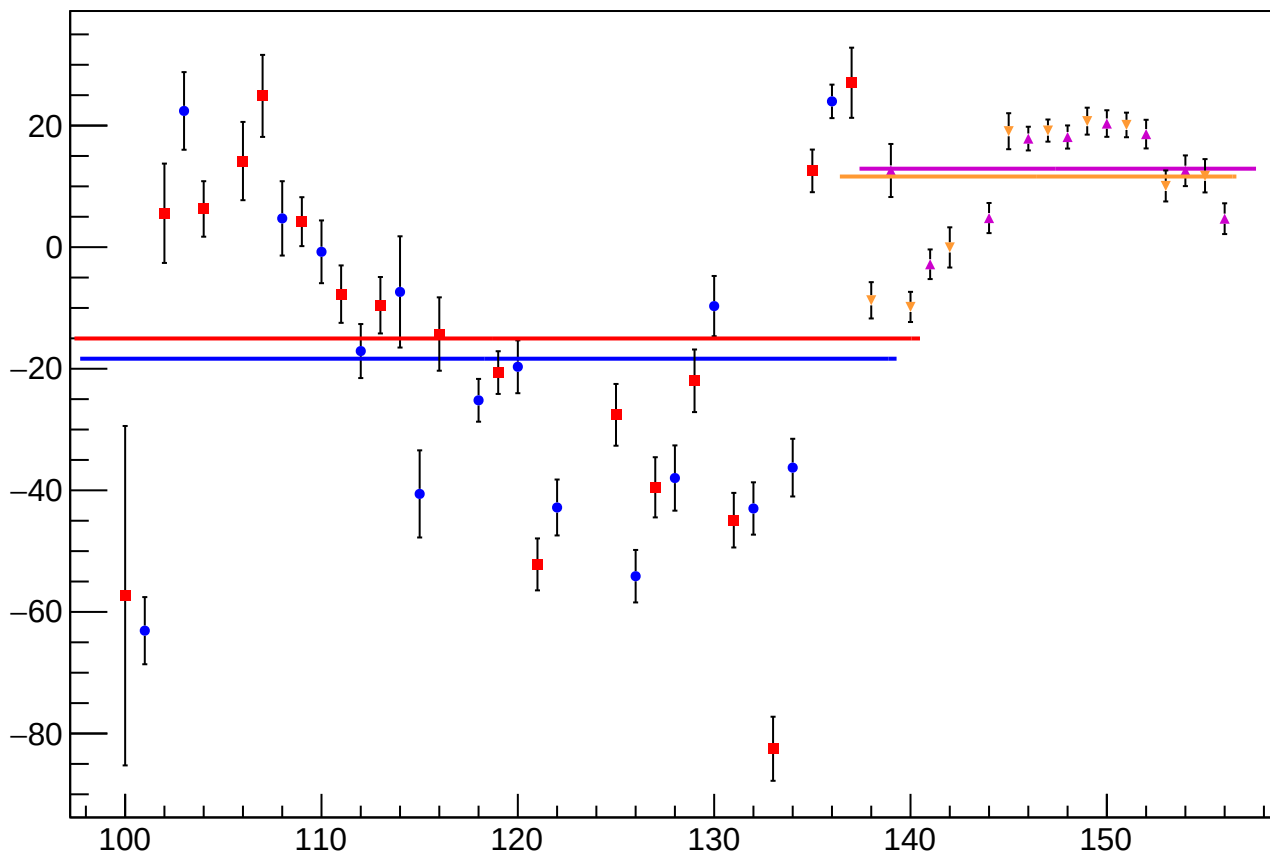
Right: -195.523 ± 0.765 χ^2/NDF : 4157.8/33

In: -142.608 ± 0.706 χ^2/NDF : 6812.8/24

Out: -138.391 ± 0.722 χ^2/NDF : 6881.2/26

All: -140.547 ± 0.505 χ^2/NDF : 13711.5/51

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: 11.619 ± 0.812 χ^2/NDF : 192.0/8

Right Out: -15.021 ± 1.162 χ^2/NDF : 546.4/17

Left In: 12.906 ± 0.784 χ^2/NDF : 94.2/8

Left: 12.285 ± 0.564 χ^2/NDF : 287.6/17

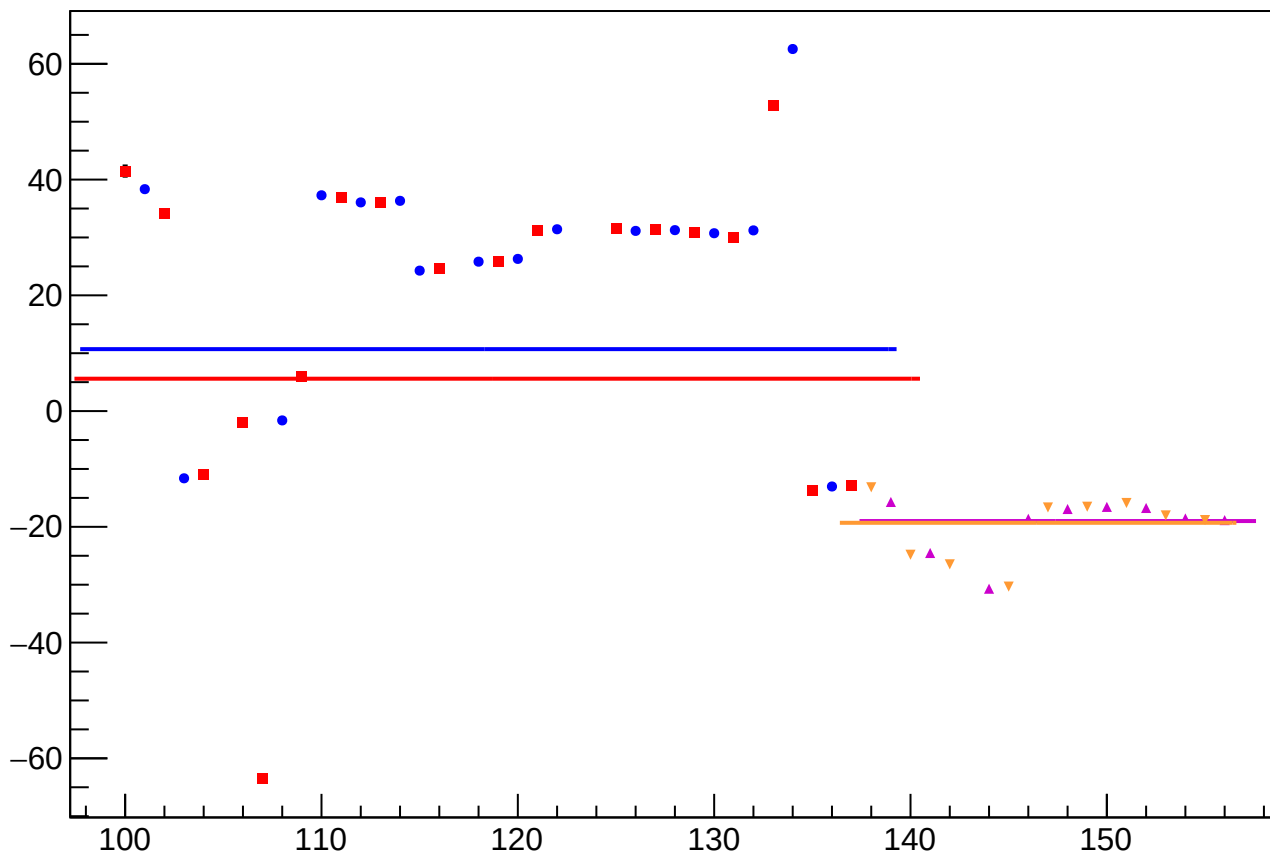
Right: -16.688 ± 0.821 χ^2/NDF : 1094.5/33

In: 3.092 ± 0.650 χ^2/NDF : 1136.7/24

Out: 2.874 ± 0.666 χ^2/NDF : 1091.7/26

All: 2.985 ± 0.465 χ^2/NDF : 2228.4/51

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: -19.303+/-0.038 χ^2 /NDF:17919.1/8

Right Out: 5.595+/-0.064 χ^2 /NDF: 154966.4/17

Left In: -19.001+/-0.035 χ^2 /NDF:12732.7/8

Left: -19.140+/-0.026 χ^2 /NDF: 30685.2/17

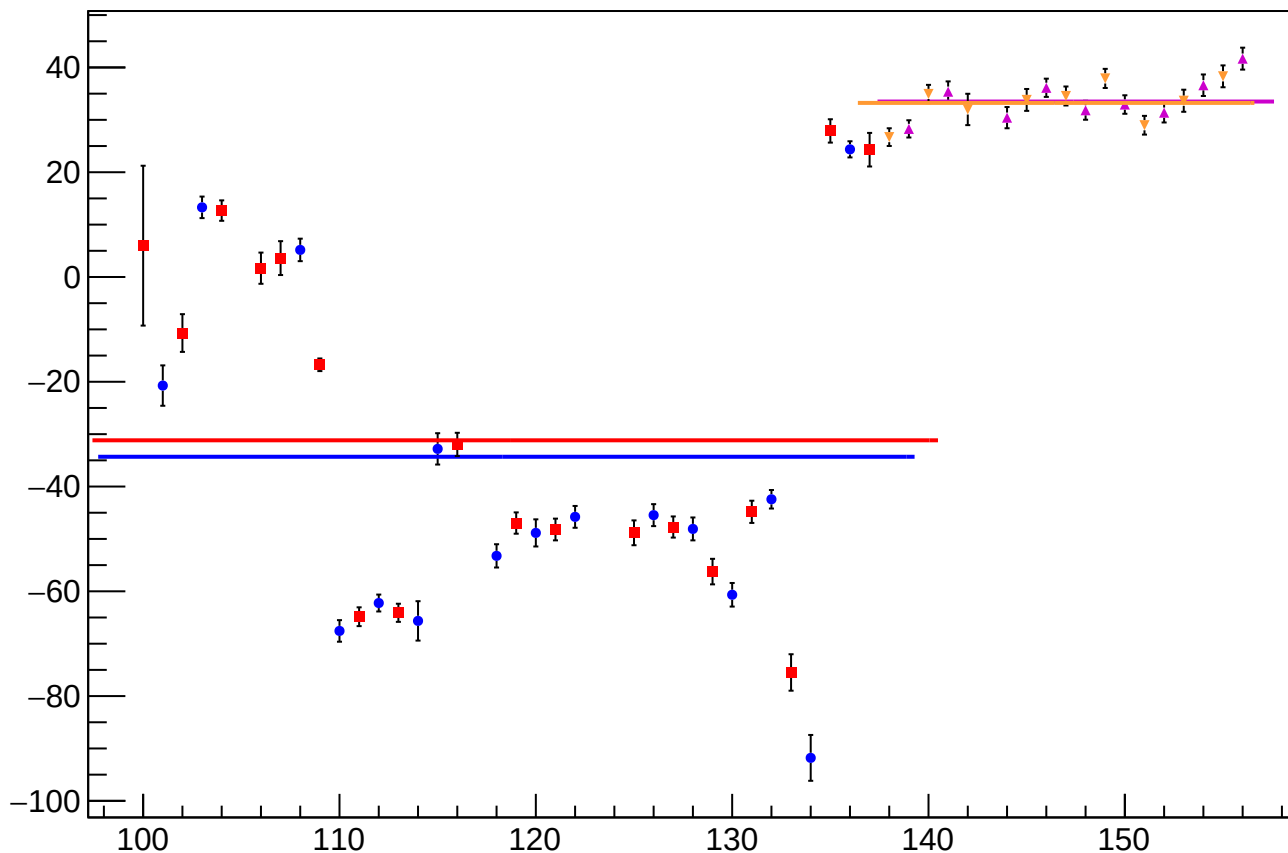
Right: 8.178+/-0.045 χ^2 /NDF: 323087.7/33

In: -11.841+/-0.031 χ^2 /NDF:346846.3/24

Out: -12.652+/-0.033 χ^2 /NDF:285148.5/26

All: -12.221+/-0.023 χ^2 /NDF: 632318.2/51

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: 33.233 ± 0.646 $\chi^2/\text{NDF}: 34.9/8$

Right Out: -31.175 ± 0.516 $\chi^2/\text{NDF}: 3200.4/17$

Left In: 33.494 ± 0.623 $\chi^2/\text{NDF}: 35.4/8$

Left: 33.369 ± 0.449 $\chi^2/\text{NDF}: 70.3/17$

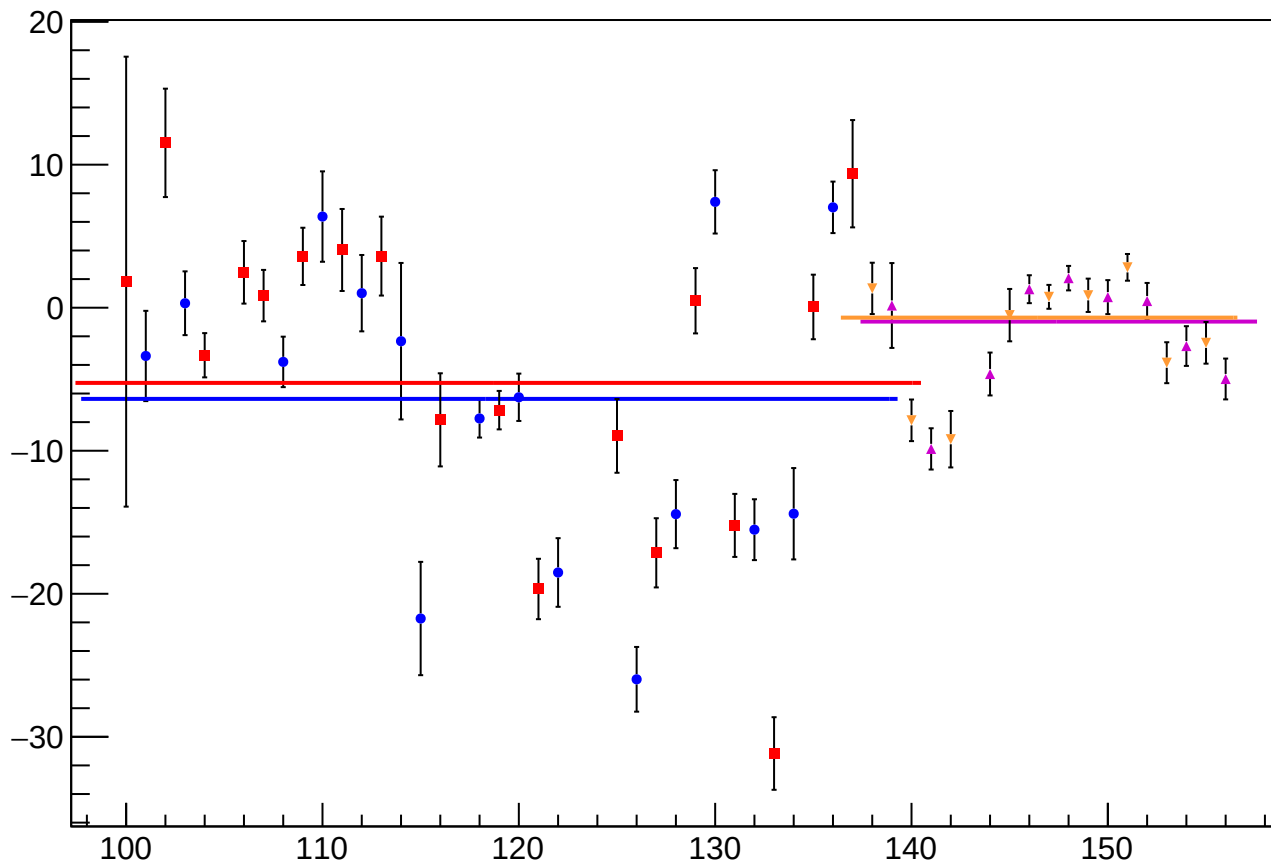
Right: -32.651 ± 0.375 $\chi^2/\text{NDF}: 6718.0/33$

In: -4.746 ± 0.411 $\chi^2/\text{NDF}: 10217.9/24$

Out: -6.118 ± 0.403 $\chi^2/\text{NDF}: 9302.8/26$

All: -5.446 ± 0.288 $\chi^2/\text{NDF}: 19526.4/51$

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: -0.693 ± 0.422 χ^2/NDF : 69.5/8

Right Out: -5.256 ± 0.533 χ^2/NDF : 312.9/17

Left In: -0.970 ± 0.415 χ^2/NDF : 74.9/8

Left: -0.834 ± 0.296 χ^2/NDF : 144.7/17

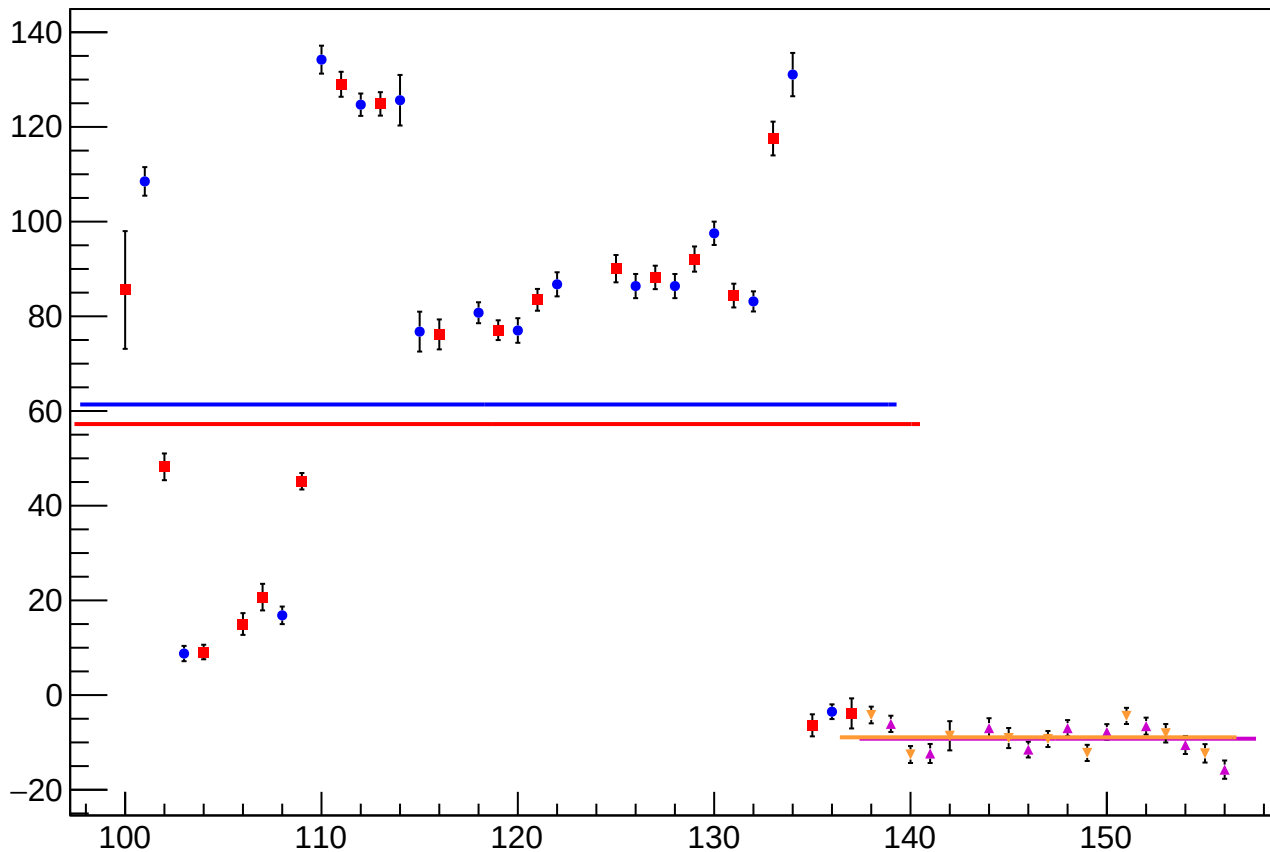
Right: -5.794 ± 0.384 χ^2/NDF : 598.6/33

In: -2.916 ± 0.332 χ^2/NDF : 419.6/24

Out: -2.454 ± 0.331 χ^2/NDF : 427.6/26

All: -2.684 ± 0.234 χ^2/NDF : 848.1/51

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: -8.923+/-0.629 χ^2/NDF : 25.3/8

Right Out: 57.240+/-0.580 χ^2/NDF : 5267.5/17

Left In: -9.215+/-0.603 χ^2/NDF : 25.4/8

Left: -9.075+/-0.435 χ^2/NDF : 50.8/17

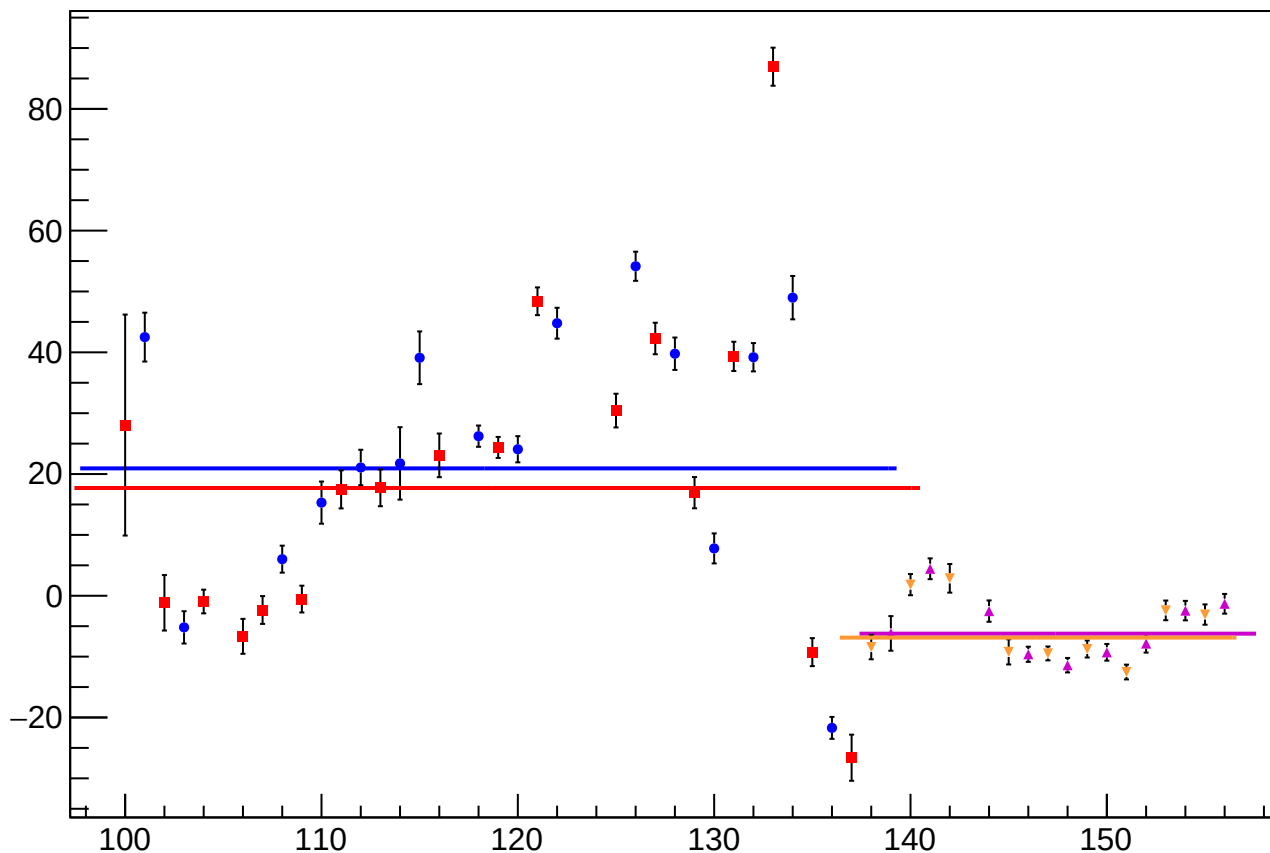
Right: 59.259+/-0.415 χ^2/NDF : 11359.0/33

In: 26.619+/-0.423 χ^2/NDF : 13039.0/24

Out: 26.829+/-0.426 χ^2/NDF : 11269.9/26

All: 26.723+/-0.300 χ^2/NDF : 24309.0/51

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.931 ± 0.640 χ^2/NDF : 1245.4/15

Left Out: -6.876 ± 0.521 χ^2/NDF : 85.5/8

Right Out: 17.711 ± 0.618 χ^2/NDF : 1481.9/17

Left In: -6.227 ± 0.507 χ^2/NDF : 90.7/8

Left: -6.542 ± 0.363 χ^2/NDF : 177.0/17

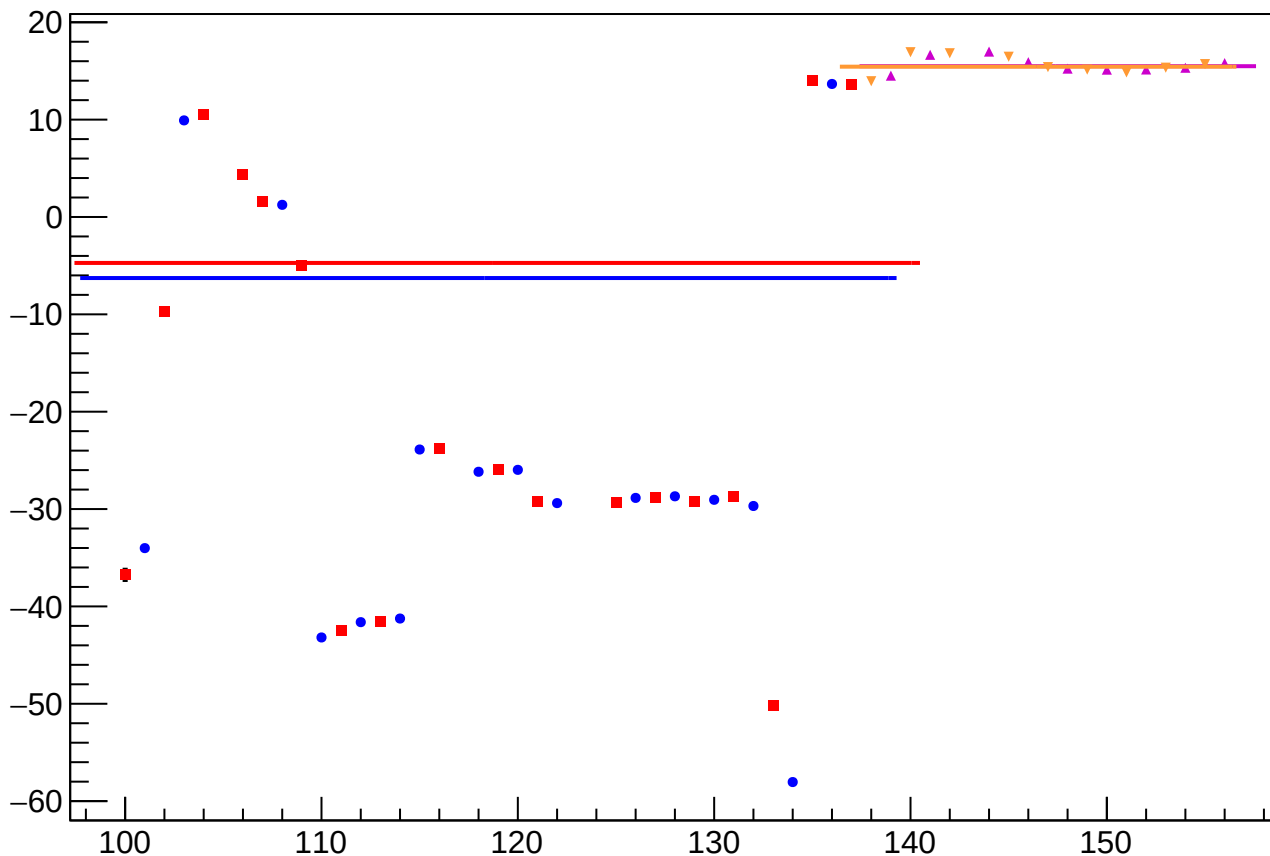
Right: 19.265 ± 0.445 χ^2/NDF : 2740.4/33

In: 4.233 ± 0.397 χ^2/NDF : 2442.7/24

Out: 3.335 ± 0.398 χ^2/NDF : 2492.6/26

All: 3.785 ± 0.281 χ^2/NDF : 4937.8/51

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: 15.439+/-0.025 χ^2/NDF :1204.1/8

Right Out: -4.720+/-0.034 χ^2/NDF : 306663.6/17

Left In: 15.489+/-0.023 χ^2/NDF :850.6/8

Left: 15.466+/-0.017 χ^2/NDF : 2056.8/17

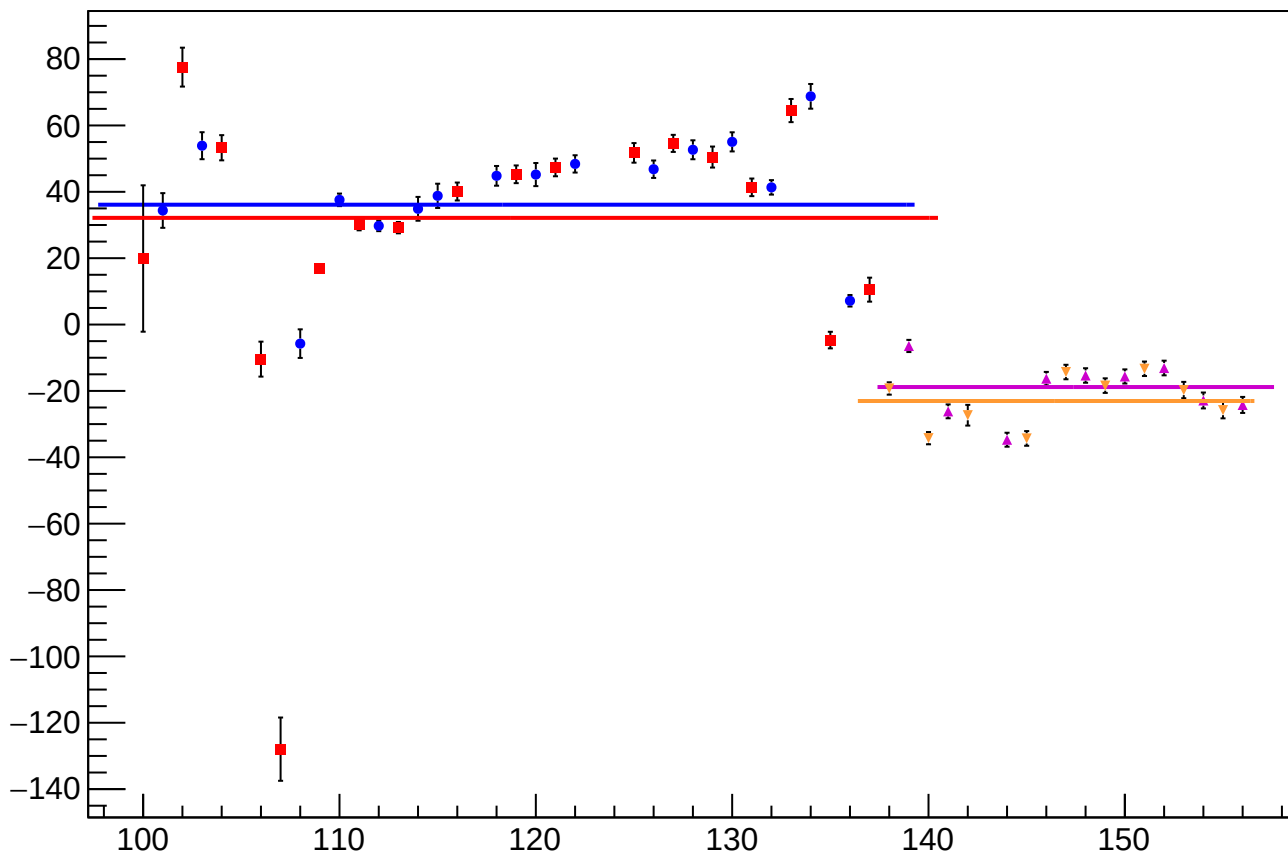
Right: -5.502+/-0.024 χ^2/NDF : 718193.1/33

In: 8.540+/-0.019 χ^2/NDF :699924.9/24

Out: 8.380+/-0.020 χ^2/NDF :540548.7/26

All: 8.464+/-0.014 χ^2/NDF : 1240507.5/51

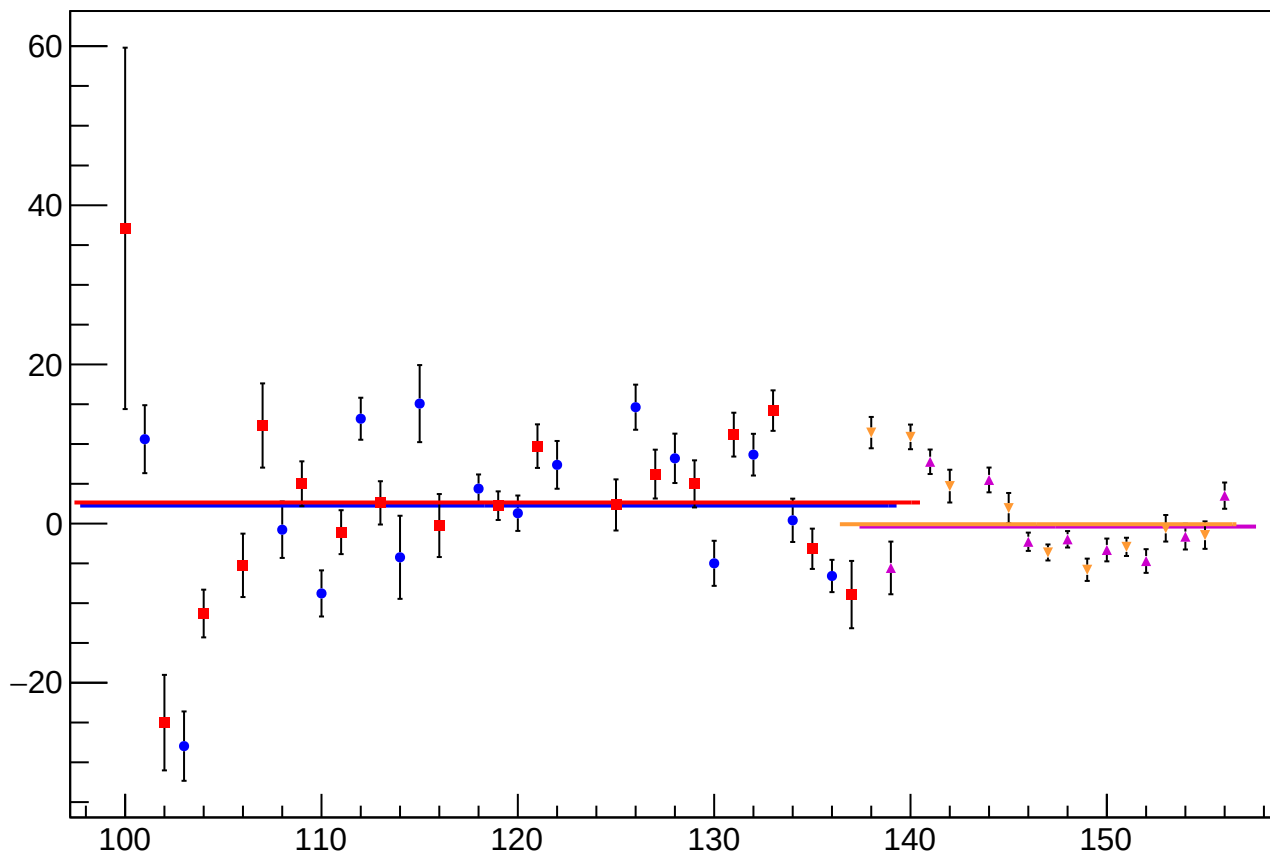
reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 36.118+/-0.656 χ^2 /NDF: 622.8/15
 Left Out: -23.038+/-0.737 χ^2 /NDF:111.9/8
 Right Out: 32.150+/-0.631 χ^2 /NDF: 1114.6/17
 Left In: -18.828+/-0.712 χ^2 /NDF:135.6/8

Left: -20.860+/-0.512 χ^2 /NDF: 264.4/17
 Right: 34.055+/-0.455 χ^2 /NDF: 1756.4/33
 In: 10.869+/-0.483 χ^2 /NDF:3978.0/24
 Out: 8.826+/-0.479 χ^2 /NDF:4463.3/26
 All: 9.840+/-0.340 χ^2 /NDF: 8450.4/51

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.265 ± 0.701 $\chi^2/\text{NDF}: 152.0/15$

Left Out: -0.080 ± 0.492 $\chi^2/\text{NDF}: 127.0/8$

Right Out: 2.651 ± 0.715 $\chi^2/\text{NDF}: 107.2/17$

Left In: -0.376 ± 0.482 $\chi^2/\text{NDF}: 68.6/8$

Left: -0.231 ± 0.344 $\chi^2/\text{NDF}: 195.8/17$

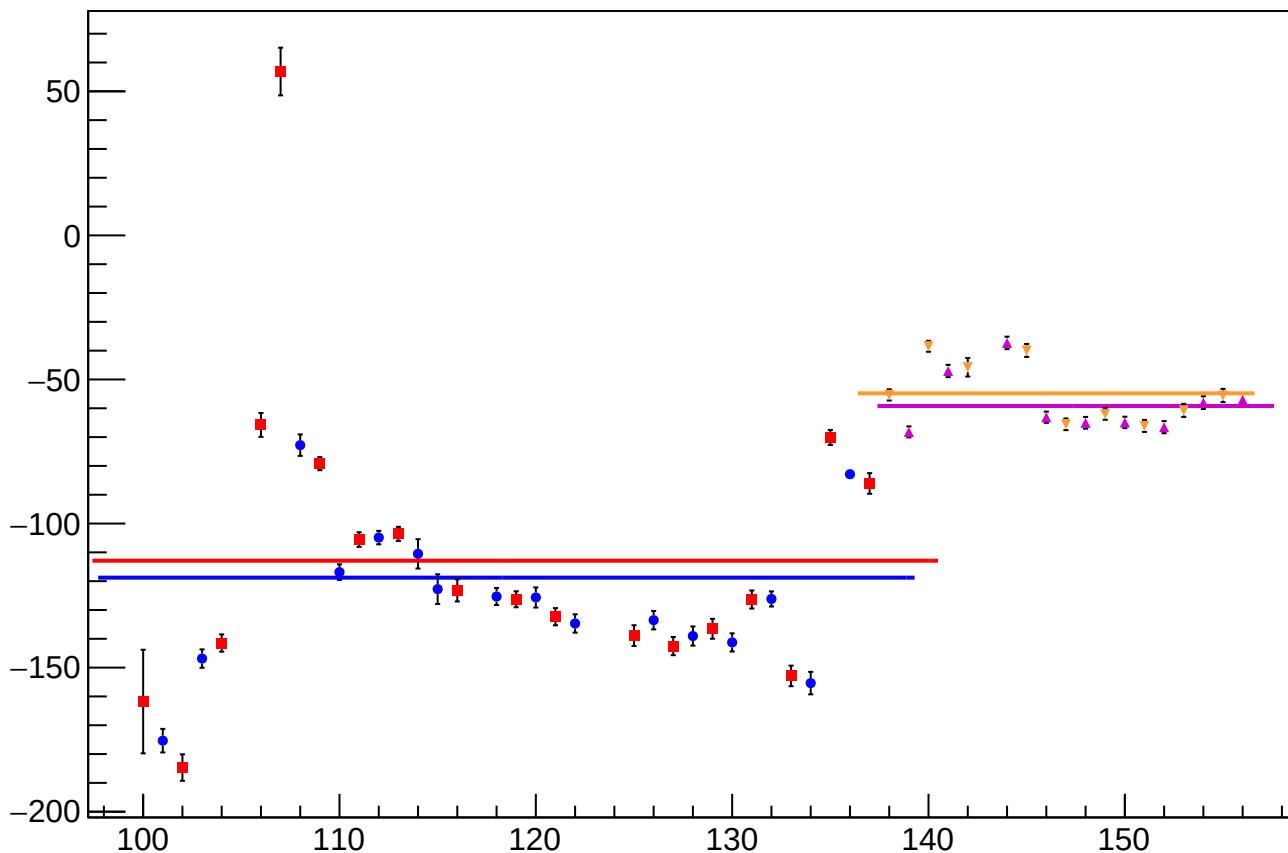
Right: 2.454 ± 0.501 $\chi^2/\text{NDF}: 259.4/33$

In: 0.470 ± 0.397 $\chi^2/\text{NDF}: 230.3/24$

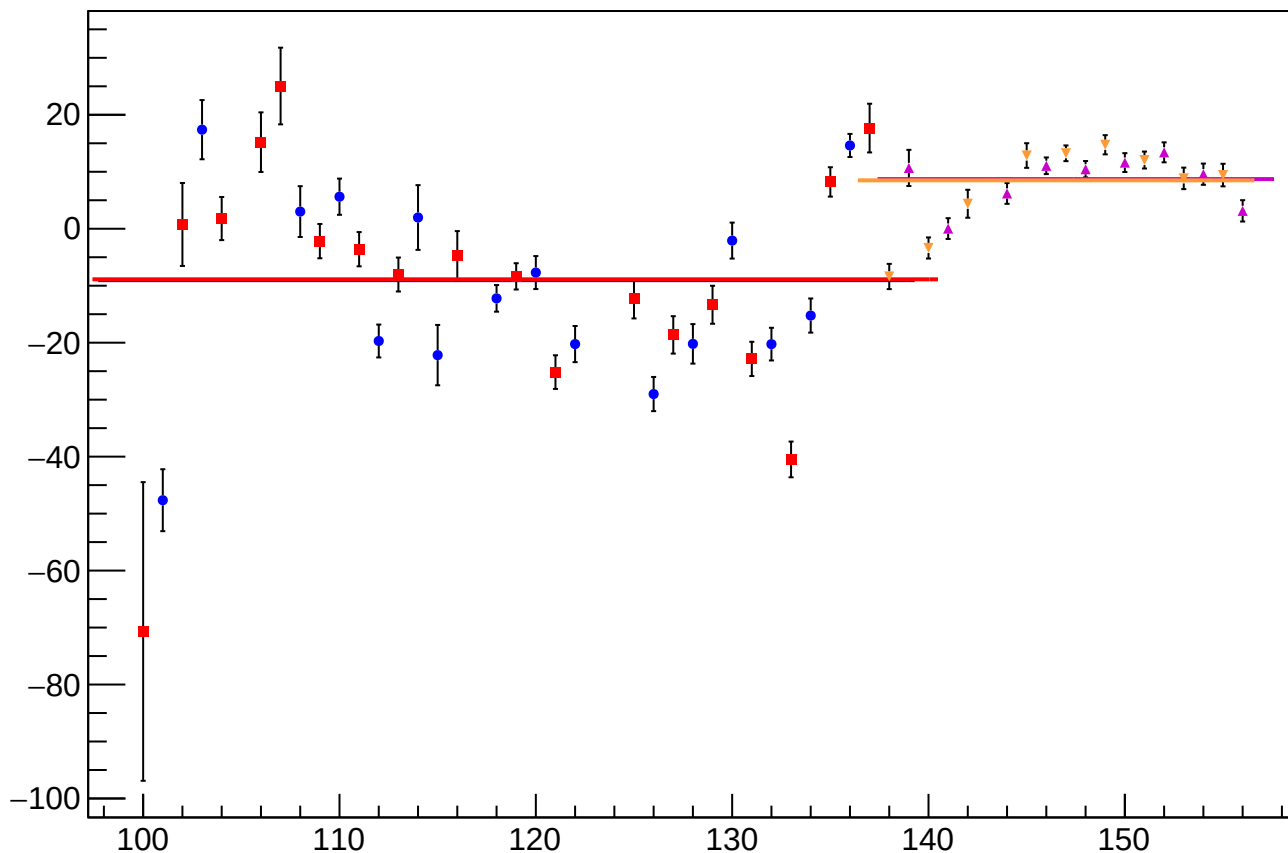
Out: 0.796 ± 0.405 $\chi^2/\text{NDF}: 244.1/26$

All: 0.630 ± 0.284 $\chi^2/\text{NDF}: 474.7/51$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 8.493 ± 0.604 χ^2/NDF : 137.6/8

Right Out: -8.878 ± 0.810 χ^2/NDF : 318.7/17

Left In: 8.715 ± 0.585 χ^2/NDF : 48.3/8

Left: 8.608 ± 0.420 χ^2/NDF : 186.0/17

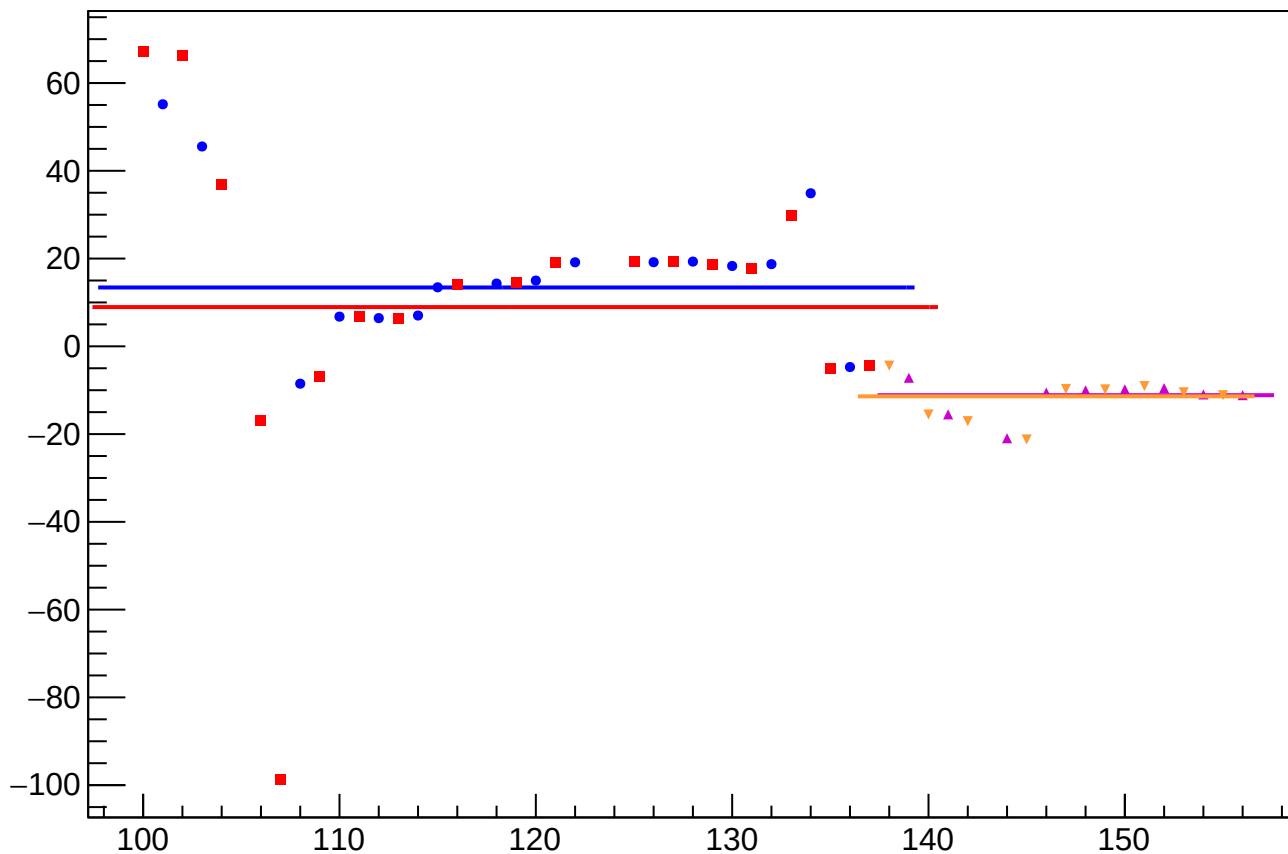
Right: -8.951 ± 0.568 χ^2/NDF : 676.8/33

In: 2.485 ± 0.472 χ^2/NDF : 728.7/24

Out: 2.291 ± 0.484 χ^2/NDF : 751.7/26

All: 2.391 ± 0.338 χ^2/NDF : 1480.5/51

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 13.412 $\pm$ 0.045 χ^2 /NDF: 183707.4/15

Left Out: -11.398 $\pm$ 0.028 χ^2 /NDF: 26471.4/8

Right Out: 8.943 $\pm$ 0.047 χ^2 /NDF: 291126.5/17

Left In: -11.131 $\pm$ 0.026 χ^2 /NDF: 17112.0/8

Left: -11.254 $\pm$ 0.019 χ^2 /NDF: 43630.7/17

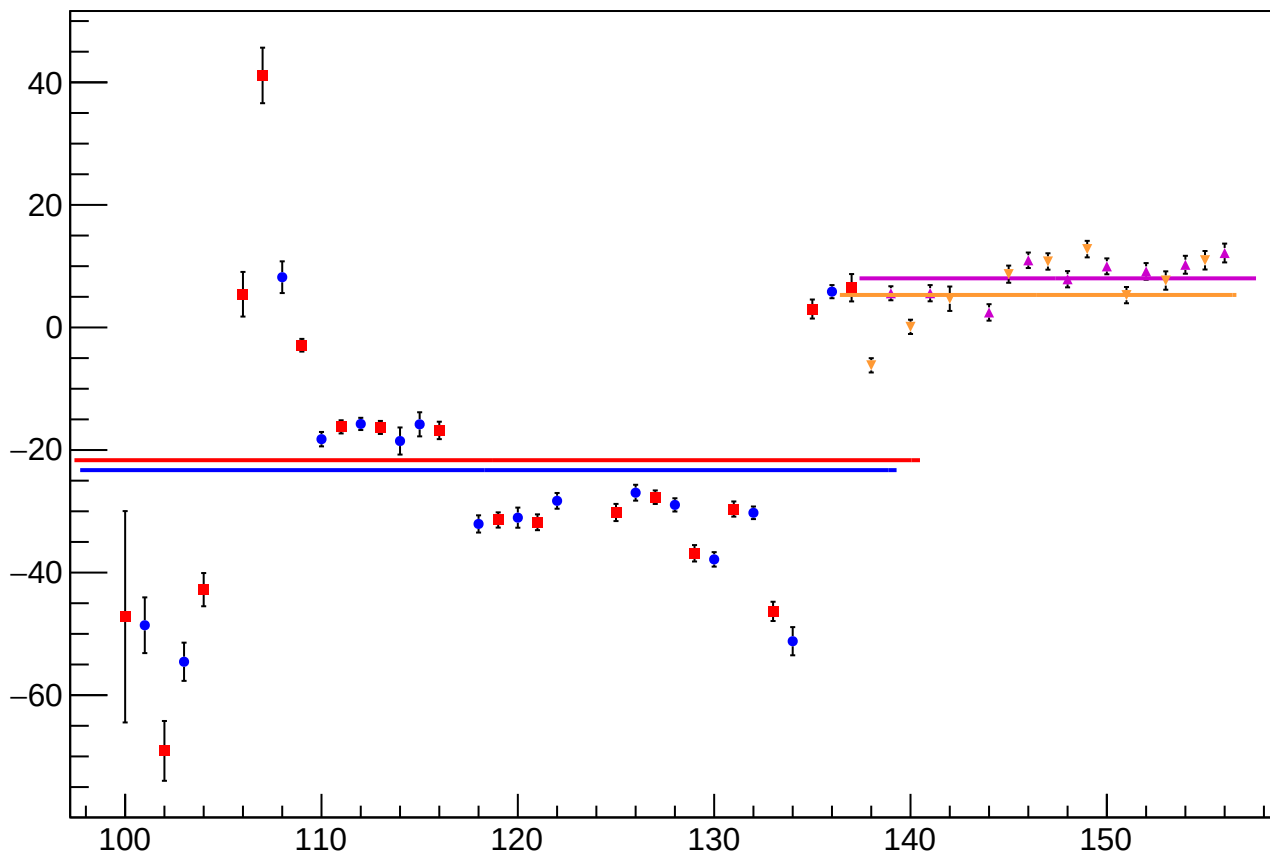
Right: 11.280 $\pm$ 0.033 χ^2 /NDF: 479481.6/33

In: -4.934 $\pm$ 0.023 χ^2 /NDF: 420413.4/24

Out: -6.017 $\pm$ 0.024 χ^2 /NDF: 453042.8/26

All: -5.438 $\pm$ 0.017 χ^2 /NDF: 874511.8/51

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: 5.305 ± 0.457 χ^2/NDF : 186.7/8

Right Out: -21.660 ± 0.347 χ^2/NDF : 1813.6/17

Left In: 8.015 ± 0.442 χ^2/NDF : 43.0/8

Left: 6.704 ± 0.318 χ^2/NDF : 247.9/17

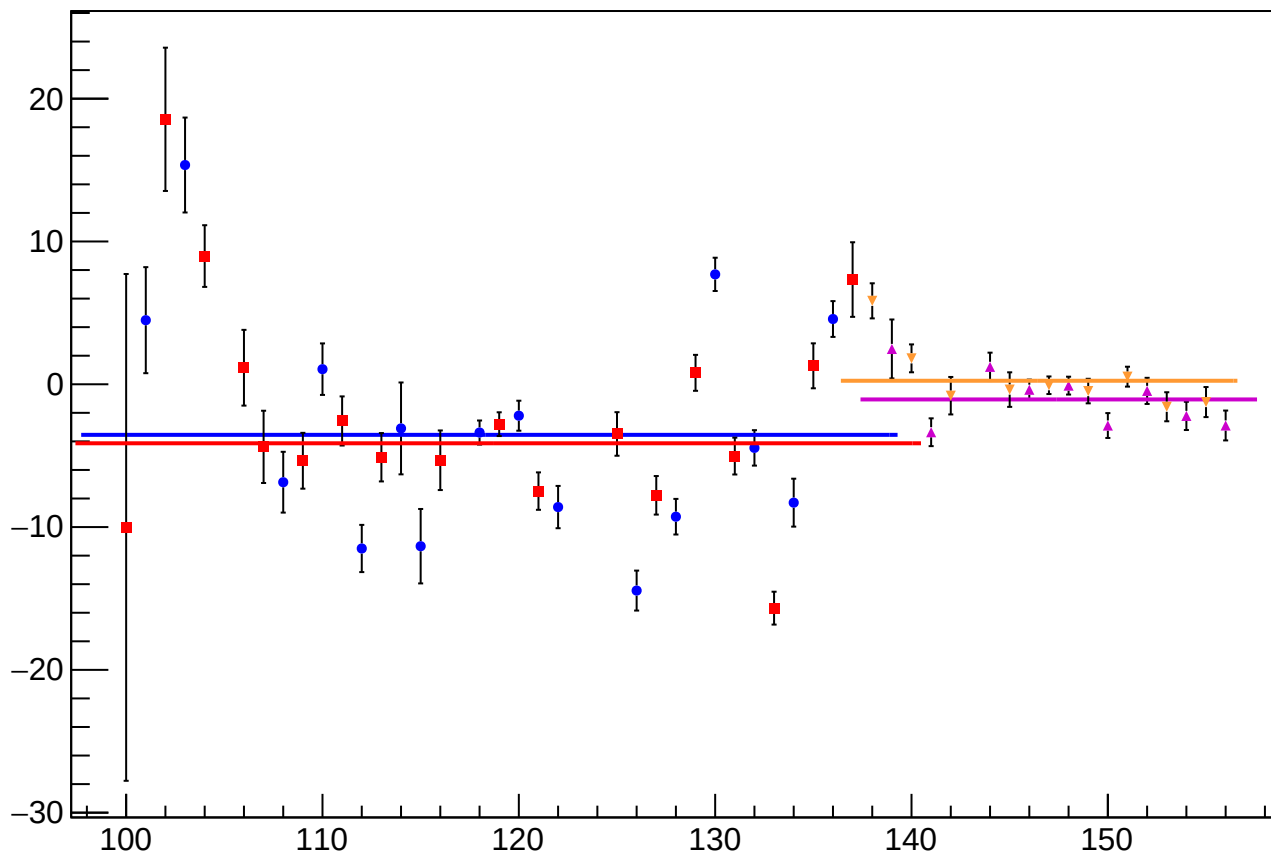
Right: -22.463 ± 0.247 χ^2/NDF : 3392.3/33

In: -11.211 ± 0.275 χ^2/NDF : 4687.5/24

Out: -11.781 ± 0.276 χ^2/NDF : 4208.4/26

All: -11.494 ± 0.195 χ^2/NDF : 8898.0/51

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: 0.246 ± 0.303 χ^2/NDF : 30.6/8

Right Out: -4.132 ± 0.371 χ^2/NDF : 227.4/17

Left In: -1.062 ± 0.298 χ^2/NDF : 26.3/8

Left: -0.420 ± 0.212 χ^2/NDF : 66.4/17

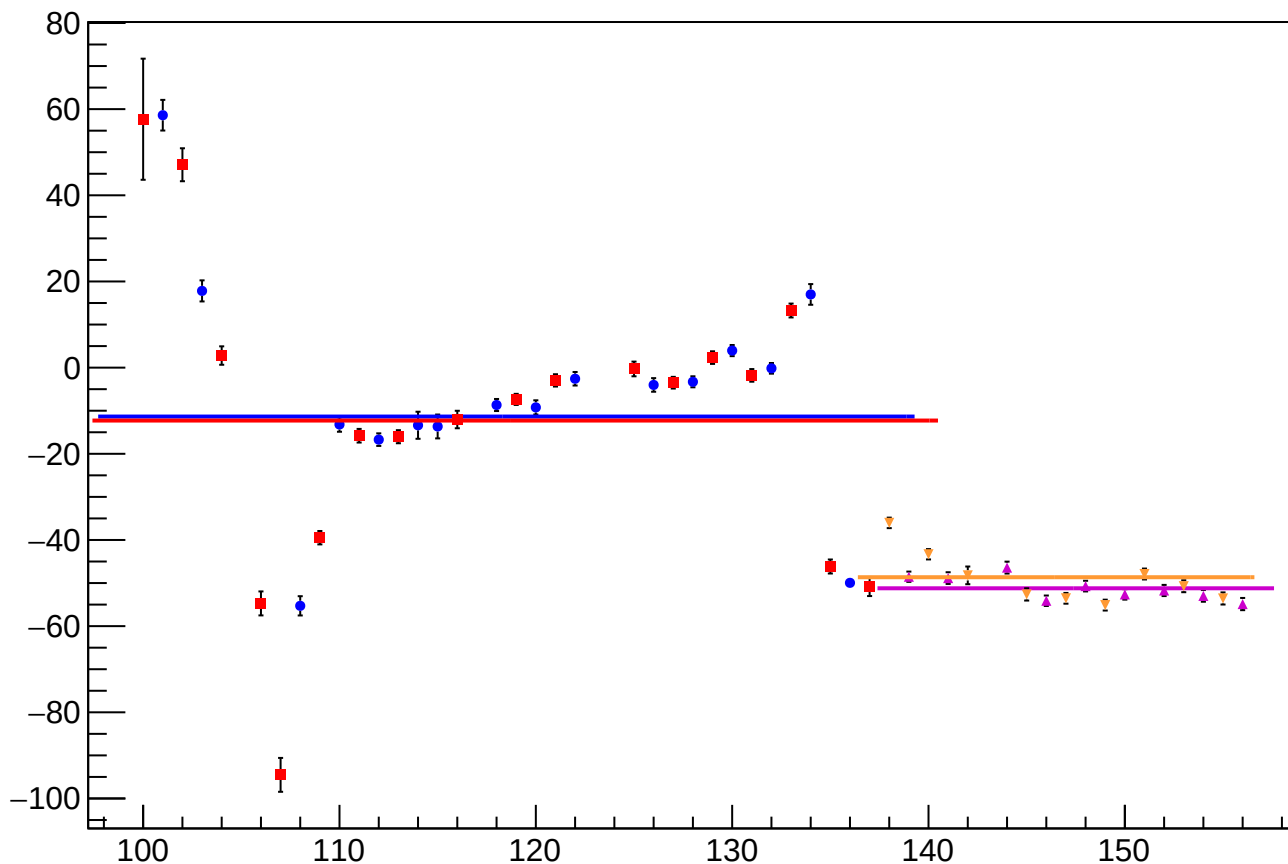
Right: -3.830 ± 0.259 χ^2/NDF : 545.5/33

In: -2.060 ± 0.230 χ^2/NDF : 371.0/24

Out: -1.508 ± 0.235 χ^2/NDF : 341.6/26

All: -1.789 ± 0.164 χ^2/NDF : 715.5/51

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -11.355 ± 0.406 $\chi^2/\text{NDF}: 2661.6/15$

Left Out: -48.647 ± 0.446 $\chi^2/\text{NDF}: 191.5/8$

Right Out: -12.281 ± 0.413 $\chi^2/\text{NDF}: 2590.4/17$

Left In: -51.215 ± 0.430 $\chi^2/\text{NDF}: 35.9/8$

Left: -49.980 ± 0.310 $\chi^2/\text{NDF}: 244.6/17$

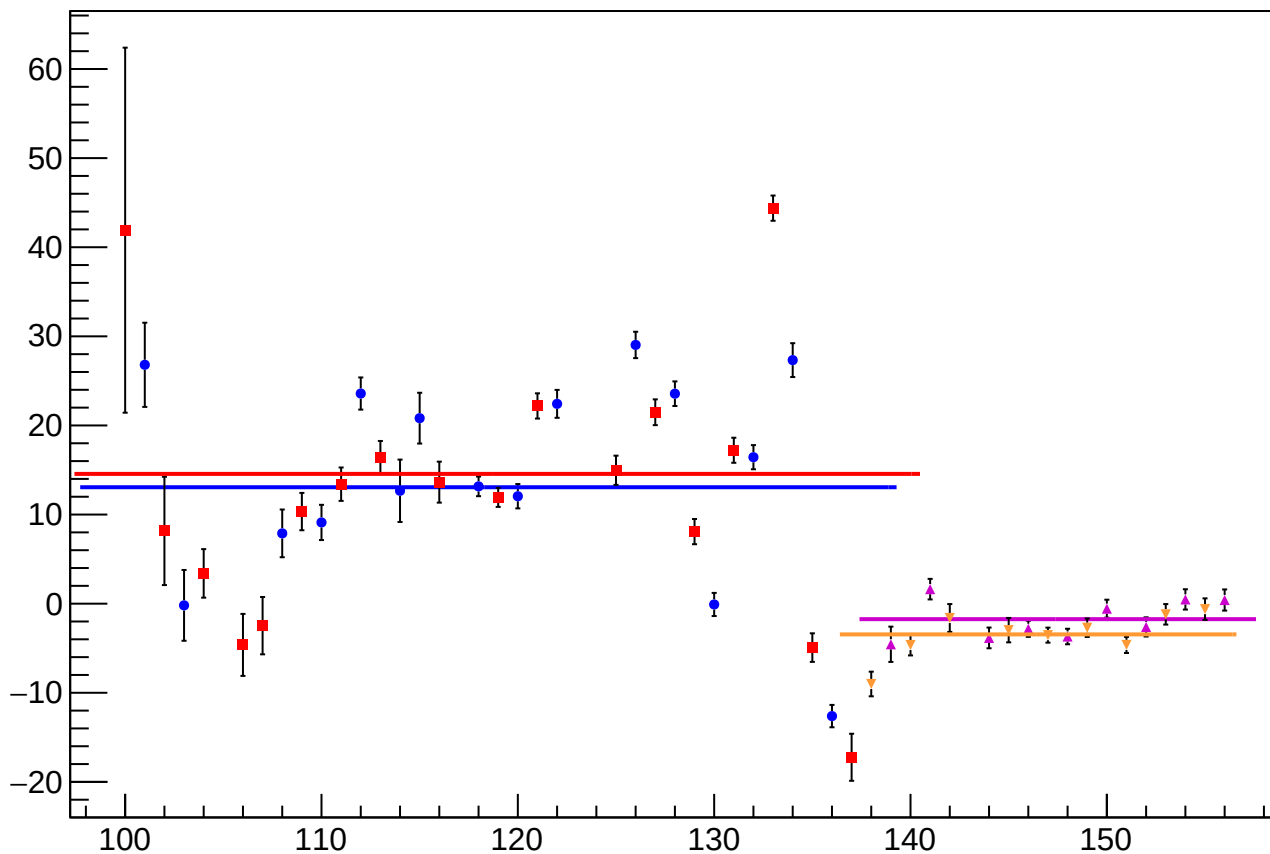
Right: -11.809 ± 0.289 $\chi^2/\text{NDF}: 5254.6/33$

In: -30.145 ± 0.295 $\chi^2/\text{NDF}: 7248.6/24$

Out: -29.063 ± 0.303 $\chi^2/\text{NDF}: 6357.4/26$

All: -29.619 ± 0.211 $\chi^2/\text{NDF}: 13612.5/51$

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.066+/-0.415 χ^2/NDF : 863.4/15

Left Out: -3.447+/-0.373 χ^2/NDF :30.3/8

Right Out: 14.563+/-0.423 χ^2/NDF : 903.1/17

Left In: -1.738+/-0.362 χ^2/NDF :29.3/8

Left: -2.568+/-0.260 χ^2/NDF : 70.5/17

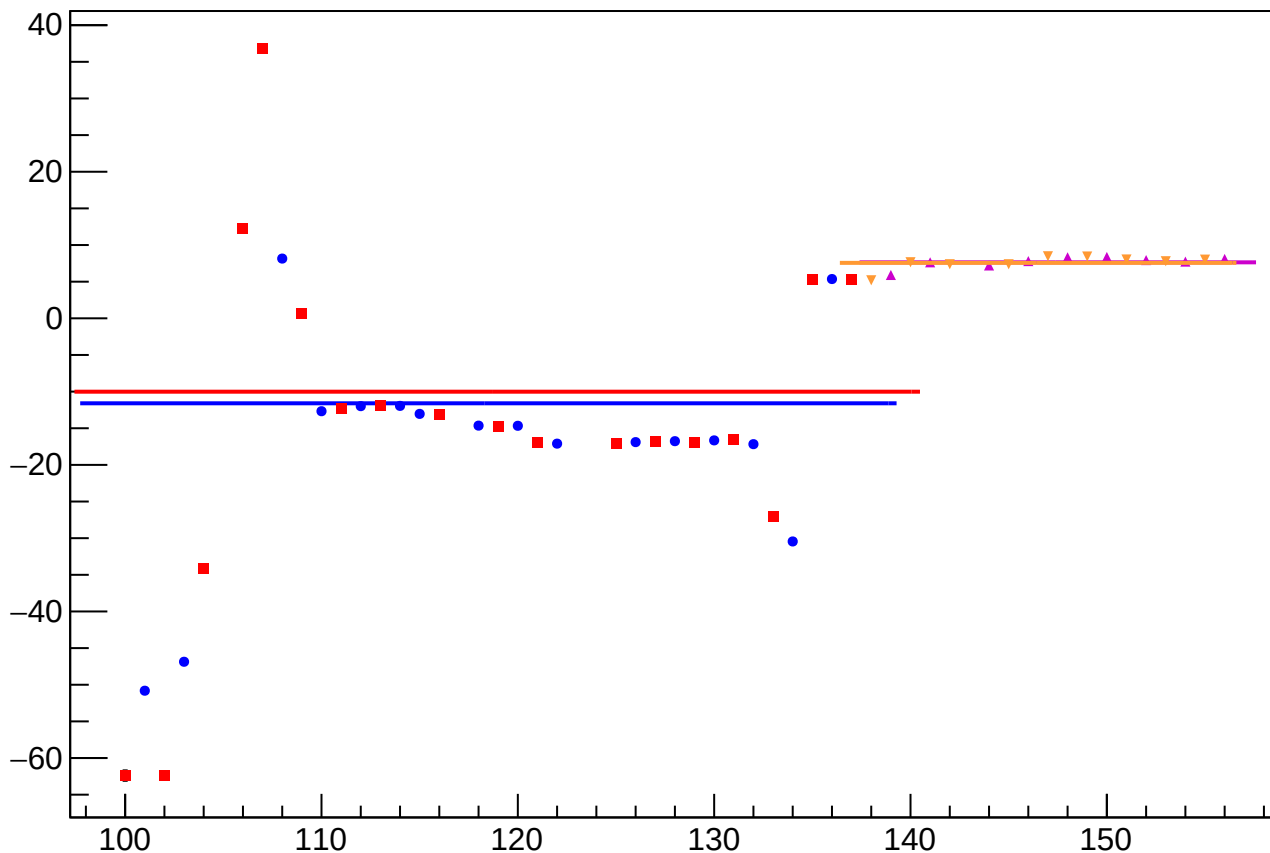
Right: 13.801+/-0.296 χ^2/NDF : 1772.9/33

In: 4.673+/-0.273 χ^2/NDF :1615.1/24

Out: 4.434+/-0.279 χ^2/NDF :1955.4/26

All: 4.556+/-0.195 χ^2/NDF : 3570.9/51

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.596+/-0.026 χ^2/NDF : 360523.2/15

Left Out: 7.567+/-0.018 χ^2/NDF :3208.4/8

Right Out: -10.012+/-0.027 χ^2/NDF : 396286.9/17

Left In: 7.639+/-0.016 χ^2/NDF :2268.1/8

Left: 7.606+/-0.012 χ^2/NDF : 5485.6/17

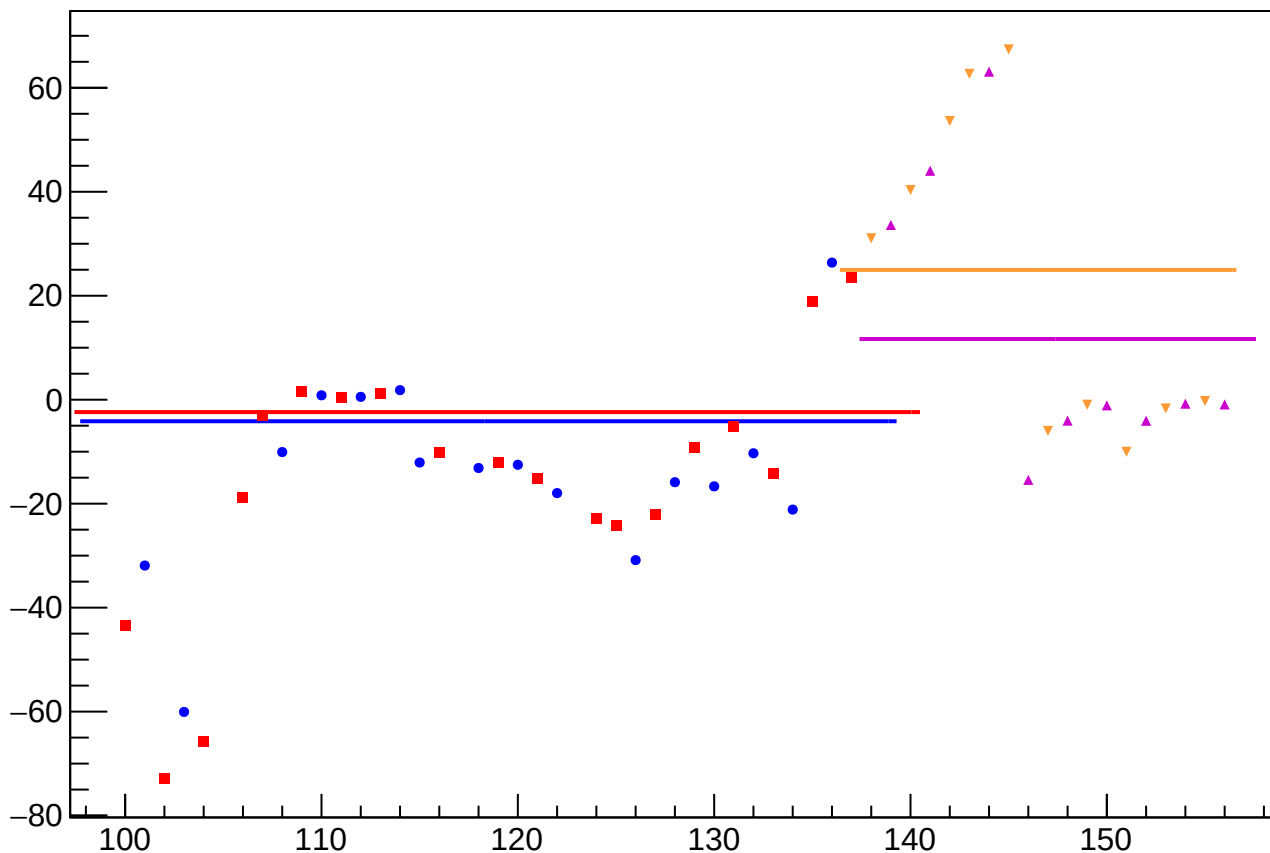
Right: -10.837+/-0.019 χ^2/NDF : 758546.1/33

In: 2.288+/-0.014 χ^2/NDF :748601.6/24

Out: 2.457+/-0.015 χ^2/NDF :690483.2/26

All: 2.367+/-0.010 χ^2/NDF : 1439153.8/51

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.145 ± 0.055 $\chi^2/\text{NDF}: 75262.7/15$

Left Out: 24.967 ± 0.088 $\chi^2/\text{NDF}: 87391.8/9$

Right Out: -2.382 ± 0.046 $\chi^2/\text{NDF}: 80749.3/18$

Left In: 11.674 ± 0.072 $\chi^2/\text{NDF}: 97756.6/8$

Left: 17.039 ± 0.056 $\chi^2/\text{NDF}: 198826.4/18$

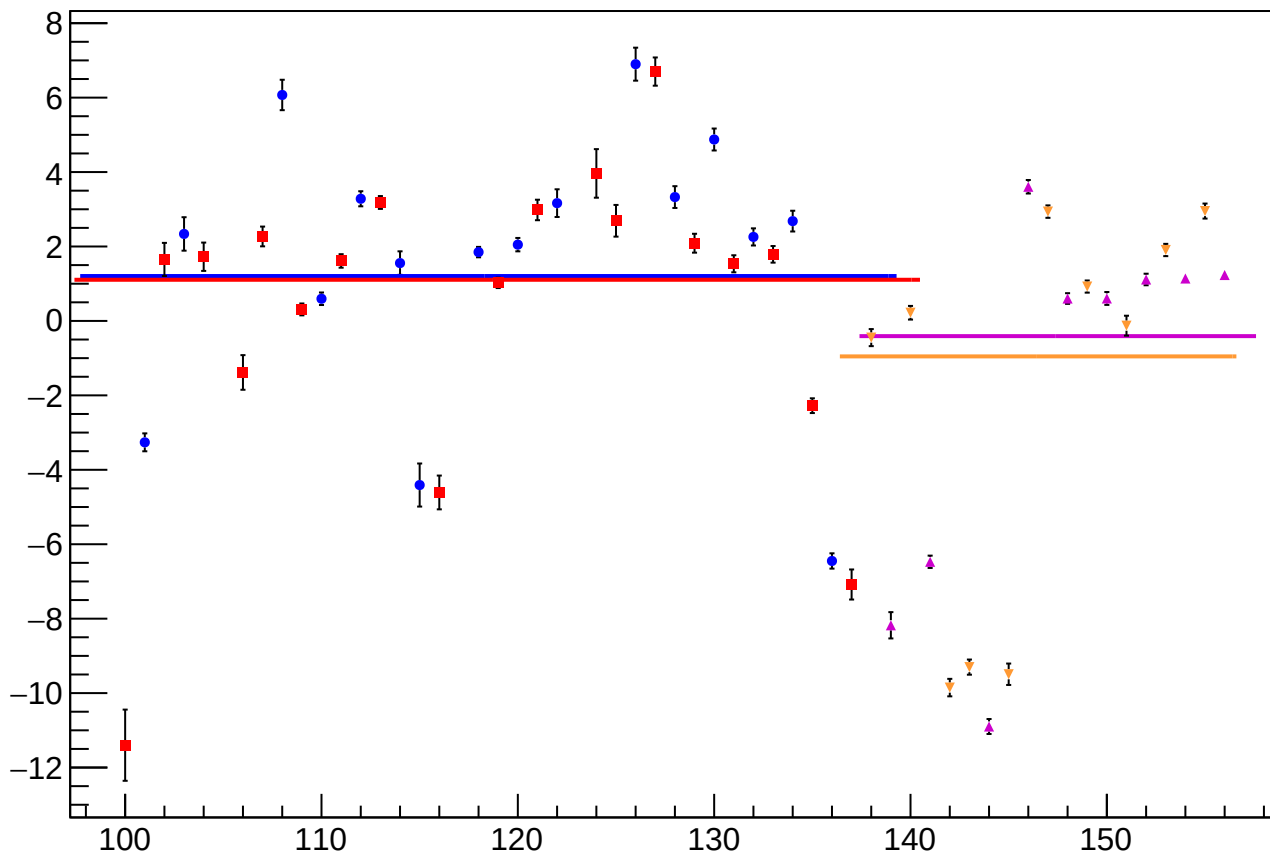
Right: -3.115 ± 0.035 $\chi^2/\text{NDF}: 156619.4/34$

In: 1.620 ± 0.044 $\chi^2/\text{NDF}: 203523.0/24$

Out: 3.538 ± 0.041 $\chi^2/\text{NDF}: 244209.0/28$

All: 2.642 ± 0.030 $\chi^2/\text{NDF}: 448763.0/53$

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: -0.953 ± 0.063 $\chi^2/\text{NDF}: 5401.9/9$

Right Out: 1.106 ± 0.057 $\chi^2/\text{NDF}: 1587.2/18$

Left In: -0.408 ± 0.050 $\chi^2/\text{NDF}: 5647.2/8$

Left: -0.620 ± 0.039 $\chi^2/\text{NDF}: 11094.6/18$

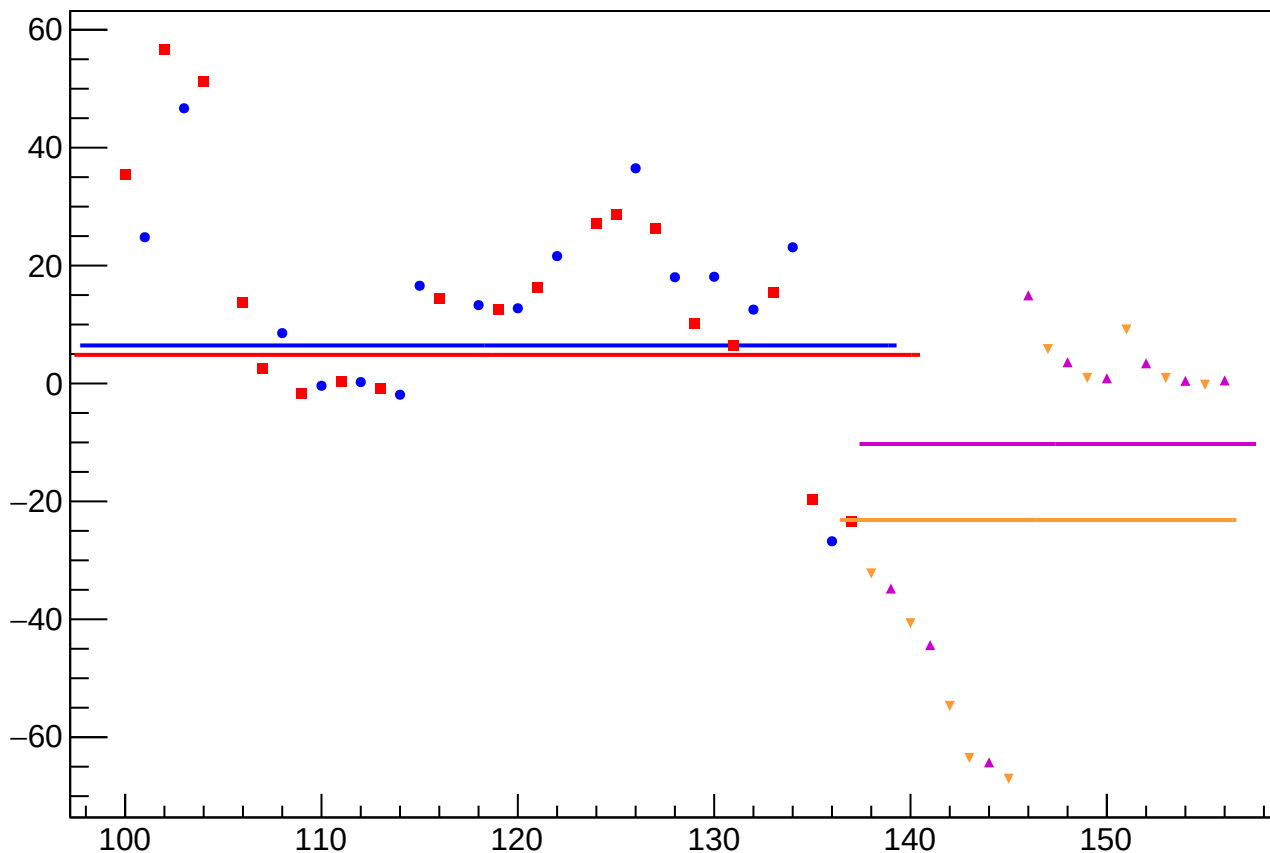
Right: 1.153 ± 0.042 $\chi^2/\text{NDF}: 4173.1/34$

In: 0.252 ± 0.039 $\chi^2/\text{NDF}: 8653.2/24$

Out: 0.176 ± 0.042 $\chi^2/\text{NDF}: 7573.7/28$

All: 0.218 ± 0.029 $\chi^2/\text{NDF}: 16228.7/53$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.453 ± 0.065 χ^2/NDF : 70671.1/15

Left Out: -23.162 ± 0.087 χ^2/NDF : 90874.3/9

Right Out: 4.854 ± 0.059 χ^2/NDF : 75267.0/18

Left In: -10.264 ± 0.069 χ^2/NDF : 98995.7/8

Left: -15.296 ± 0.054 χ^2/NDF : 203412.1/18

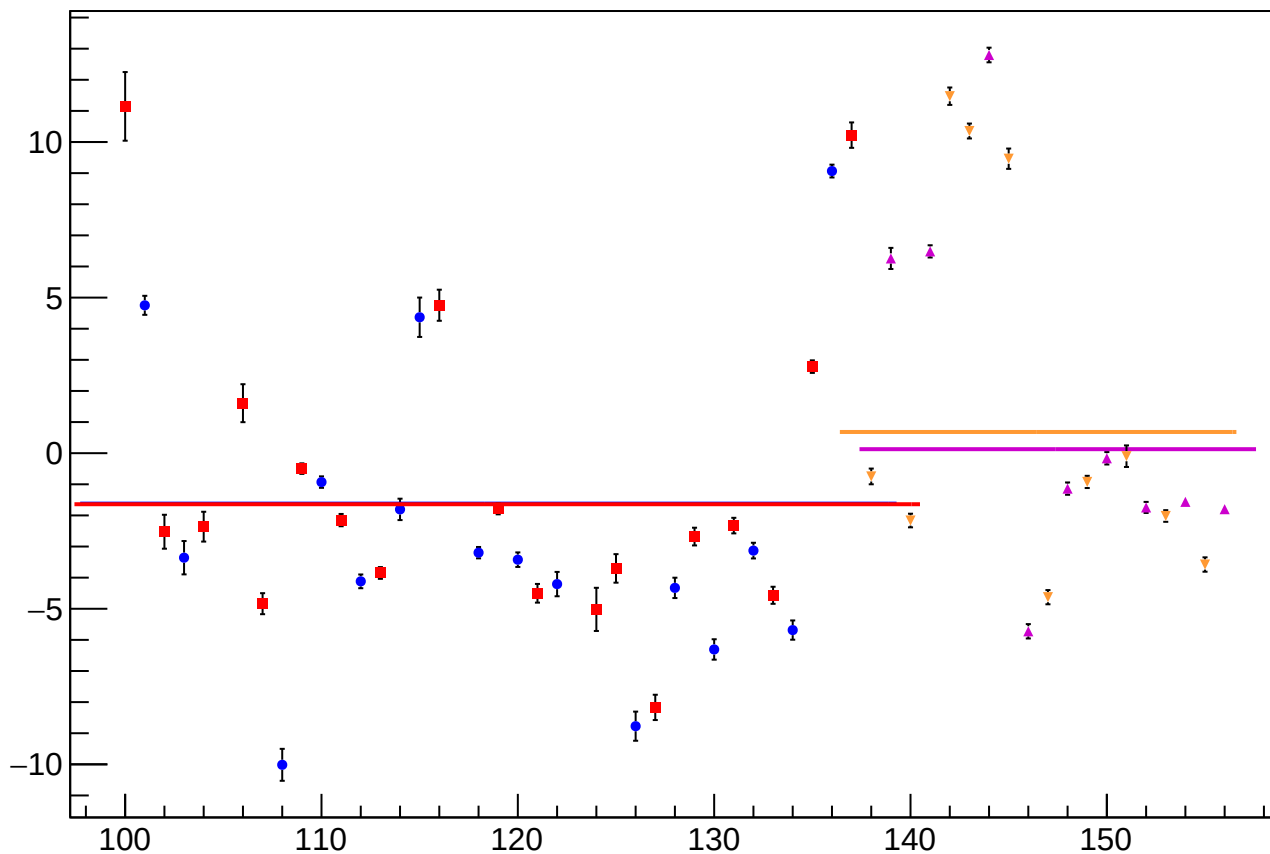
Right: 5.576 ± 0.044 χ^2/NDF : 146268.1/34

In: -1.407 ± 0.047 χ^2/NDF : 200566.6/24

Out: -4.066 ± 0.049 χ^2/NDF : 237552.1/28

All: -2.699 ± 0.034 χ^2/NDF : 439642.2/53

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: 0.682 ± 0.075 χ^2/NDF : 5199.9/9

Right Out: -1.640 ± 0.065 χ^2/NDF : 2462.1/18

Left In: 0.129 ± 0.059 χ^2/NDF : 5495.8/8

Left: 0.340 ± 0.047 χ^2/NDF : 10729.1/18

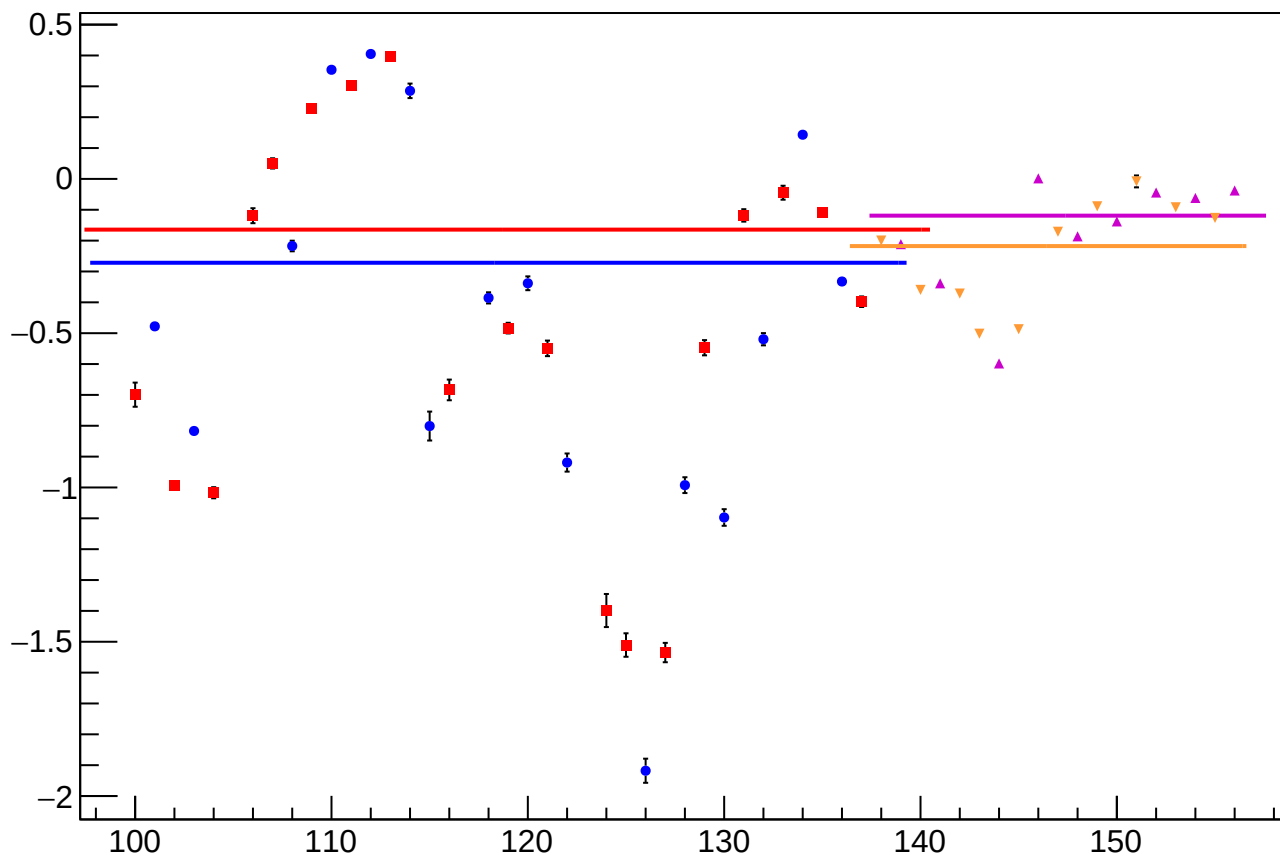
Right: -1.632 ± 0.047 χ^2/NDF : 6987.4/34

In: -0.606 ± 0.045 χ^2/NDF : 10388.1/24

Out: -0.655 ± 0.049 χ^2/NDF : 8210.8/28

All: -0.629 ± 0.033 χ^2/NDF : 18599.4/53

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: -0.218 ± 0.003 $\chi^2/\text{NDF}: 1935.2/9$

Right Out: -0.164 ± 0.004 $\chi^2/\text{NDF}: 15497.0/18$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 2811.1/8$

Left: -0.154 ± 0.002 $\chi^2/\text{NDF}: 5306.2/18$

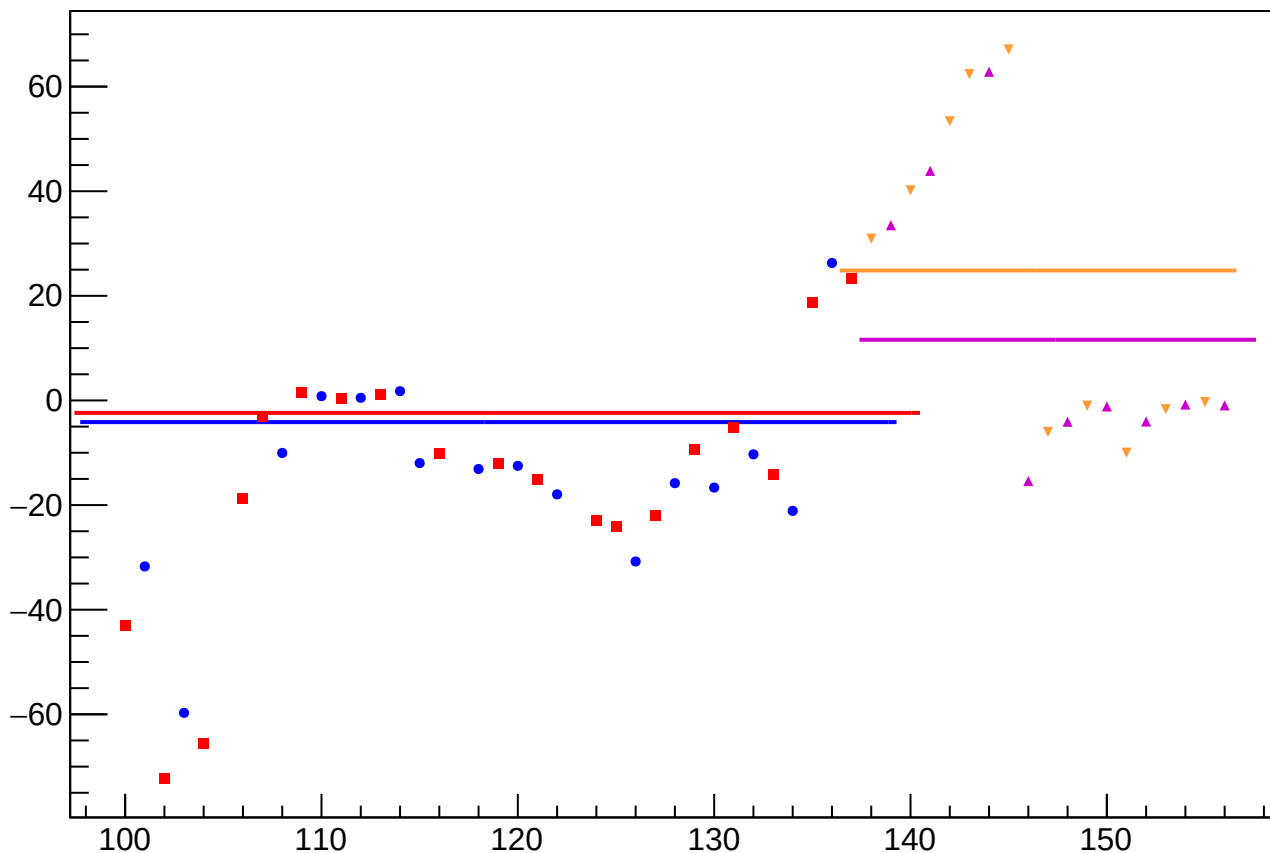
Right: -0.213 ± 0.003 $\chi^2/\text{NDF}: 27909.3/34$

In: -0.159 ± 0.002 $\chi^2/\text{NDF}: 15857.6/24$

Out: -0.194 ± 0.003 $\chi^2/\text{NDF}: 17543.0/28$

All: -0.174 ± 0.002 $\chi^2/\text{NDF}: 33516.3/53$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.139+/-0.054 χ^2/NDF : 75240.1/15

Left Out: 24.846+/-0.087 χ^2/NDF : 87345.1/9

Right Out: -2.380+/-0.046 χ^2/NDF : 80668.5/18

Left In: 11.609+/-0.072 χ^2/NDF : 97725.6/8

Left: 16.955+/-0.056 χ^2/NDF : 198720.2/18

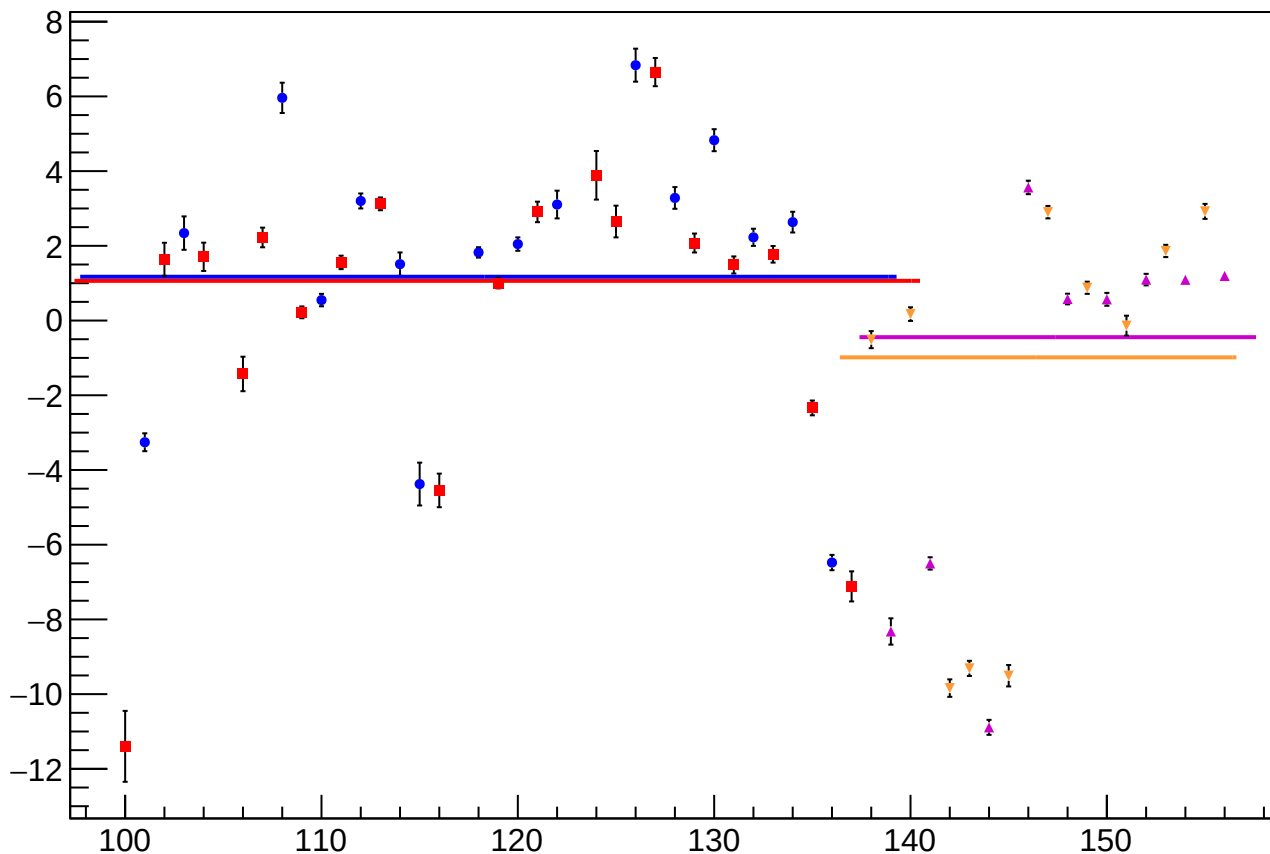
Right: -3.111+/-0.035 χ^2/NDF : 156520.4/34

In: 1.577+/-0.043 χ^2/NDF : 203444.0/24

Out: 3.485+/-0.041 χ^2/NDF : 244007.3/28

All: 2.594+/-0.030 χ^2/NDF : 448483.1/53

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.172 $\pm$ 0.060 χ^2 /NDF: 2584.5/15

Left Out: -0.985 $\pm$ 0.063 χ^2 /NDF: 5405.9/9

Right Out: 1.063 $\pm$ 0.057 χ^2 /NDF: 1596.5/18

Left In: -0.445 $\pm$ 0.050 χ^2 /NDF: 5667.6/8

Left: -0.655 $\pm$ 0.039 χ^2 /NDF: 11118.7/18

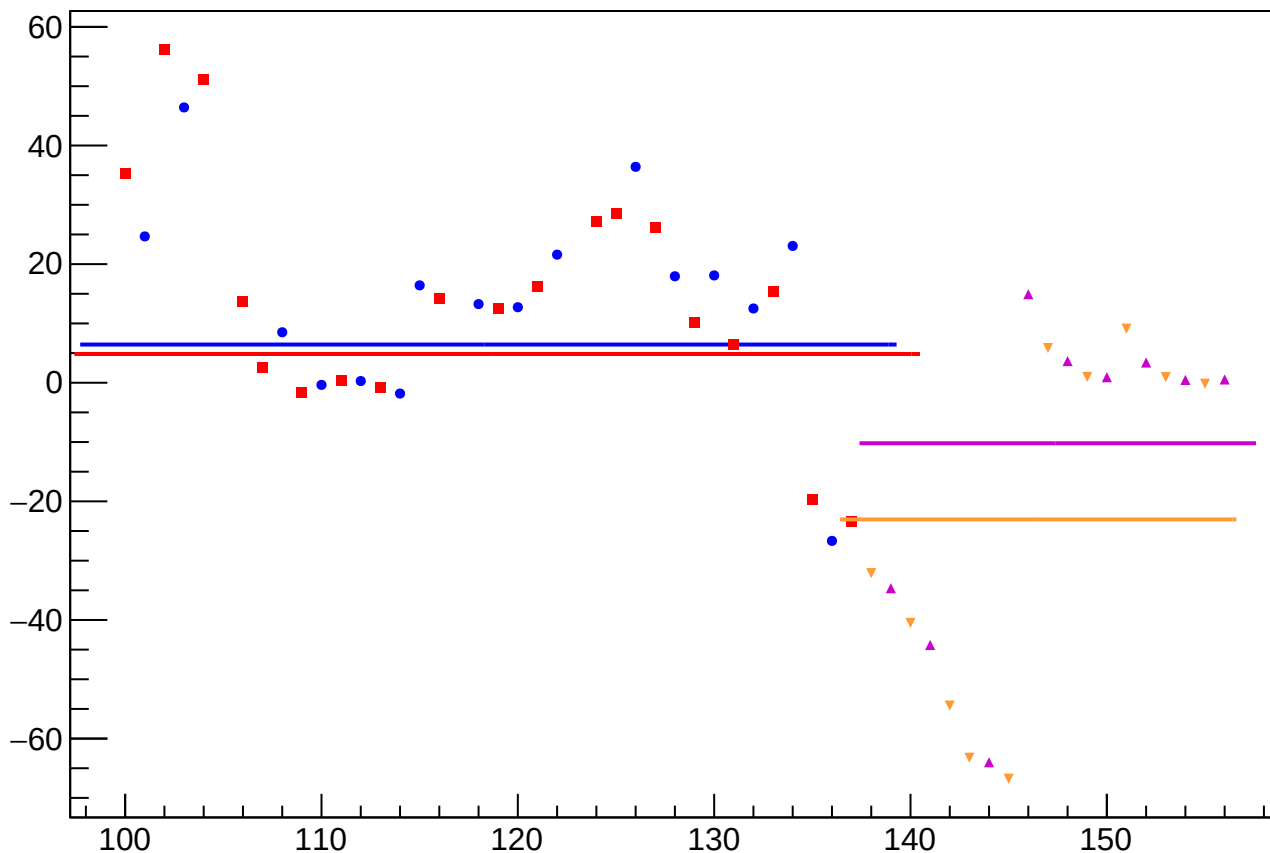
Right: 1.115 $\pm$ 0.041 χ^2 /NDF: 4182.7/34

In: 0.219 $\pm$ 0.039 χ^2 /NDF: 8678.7/24

Out: 0.140 $\pm$ 0.042 χ^2 /NDF: 7585.6/28

All: 0.183 $\pm$ 0.028 χ^2 /NDF: 16266.3/53

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.442 ± 0.065 χ^2/NDF : 70630.3/15

Left Out: -23.047 ± 0.086 χ^2/NDF : 90817.7/9

Right Out: 4.848 ± 0.059 χ^2/NDF : 75159.9/18

Left In: -10.204 ± 0.069 χ^2/NDF : 98952.5/8

Left: -15.217 ± 0.054 χ^2/NDF : 203283.0/18

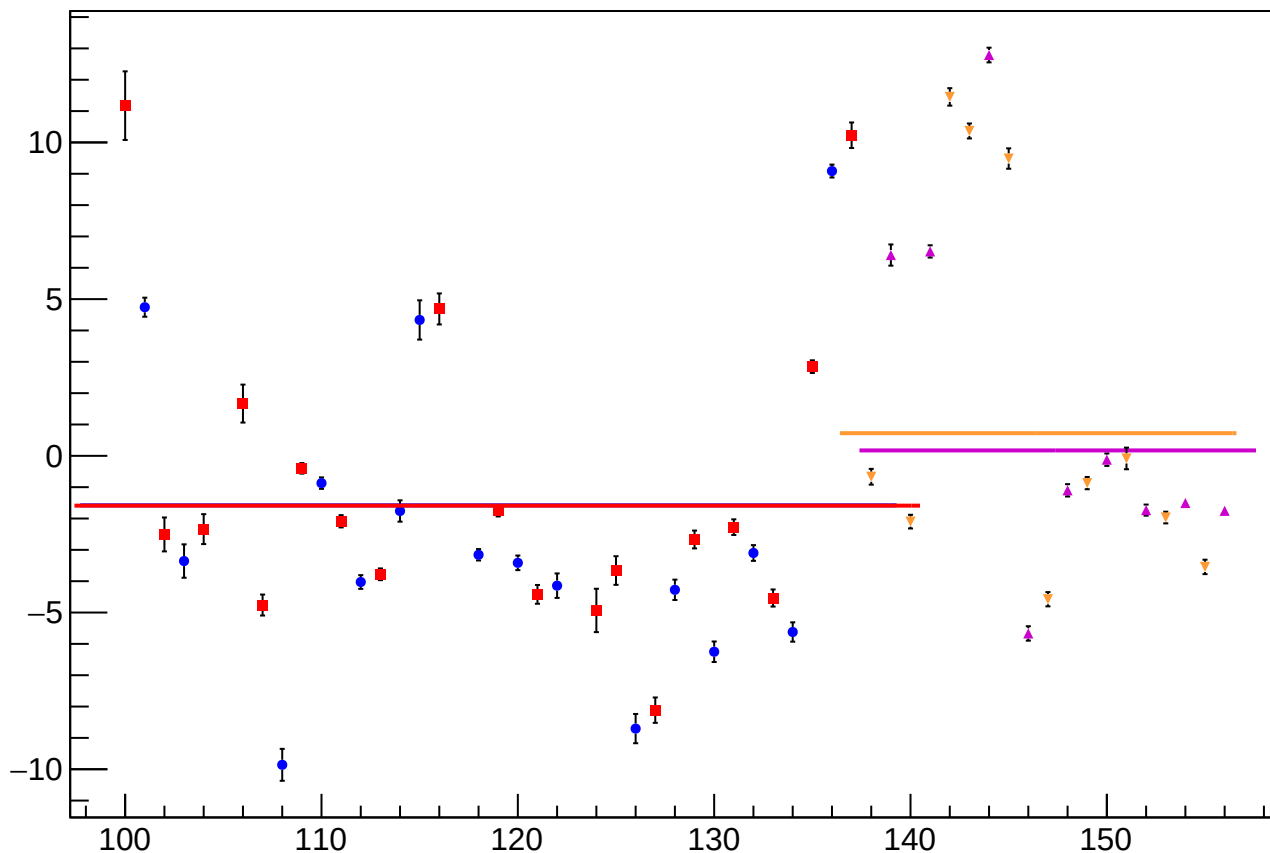
Right: 5.568 ± 0.044 χ^2/NDF : 146121.3/34

In: -1.363 ± 0.047 χ^2/NDF : 200473.7/24

Out: -4.005 ± 0.049 χ^2/NDF : 237356.6/28

All: -2.647 ± 0.034 χ^2/NDF : 439349.5/53

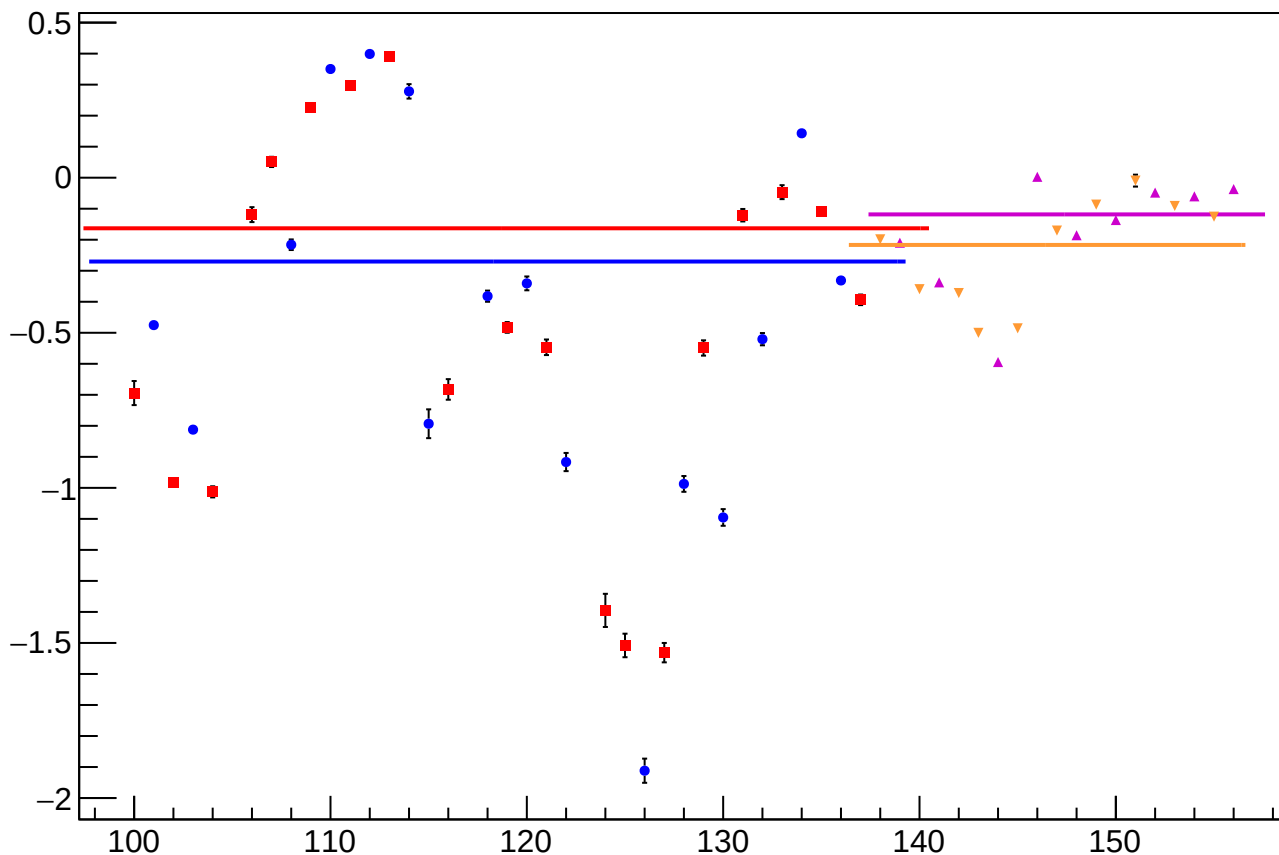
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.580 ± 0.069 $\chi^2/\text{NDF}: 4524.3/15$
 Left Out: 0.723 ± 0.075 $\chi^2/\text{NDF}: 5198.3/9$
 Right Out: -1.589 ± 0.064 $\chi^2/\text{NDF}: 2472.2/18$
 Left In: 0.173 ± 0.059 $\chi^2/\text{NDF}: 5513.7/8$

Left: 0.383 ± 0.046 $\chi^2/\text{NDF}: 10745.3/18$
 Right: -1.585 ± 0.047 $\chi^2/\text{NDF}: 6996.4/34$
 In: -0.565 ± 0.045 $\chi^2/\text{NDF}: 10409.0/24$
 Out: -0.610 ± 0.049 $\chi^2/\text{NDF}: 8218.9/28$
 All: -0.586 ± 0.033 $\chi^2/\text{NDF}: 18628.4/53$

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: -0.217 ± 0.003 $\chi^2/\text{NDF}: 1948.2/9$

Right Out: -0.163 ± 0.004 $\chi^2/\text{NDF}: 15510.0/18$

Left In: -0.118 ± 0.002 $\chi^2/\text{NDF}: 2799.5/8$

Left: -0.153 ± 0.002 $\chi^2/\text{NDF}: 5309.2/18$

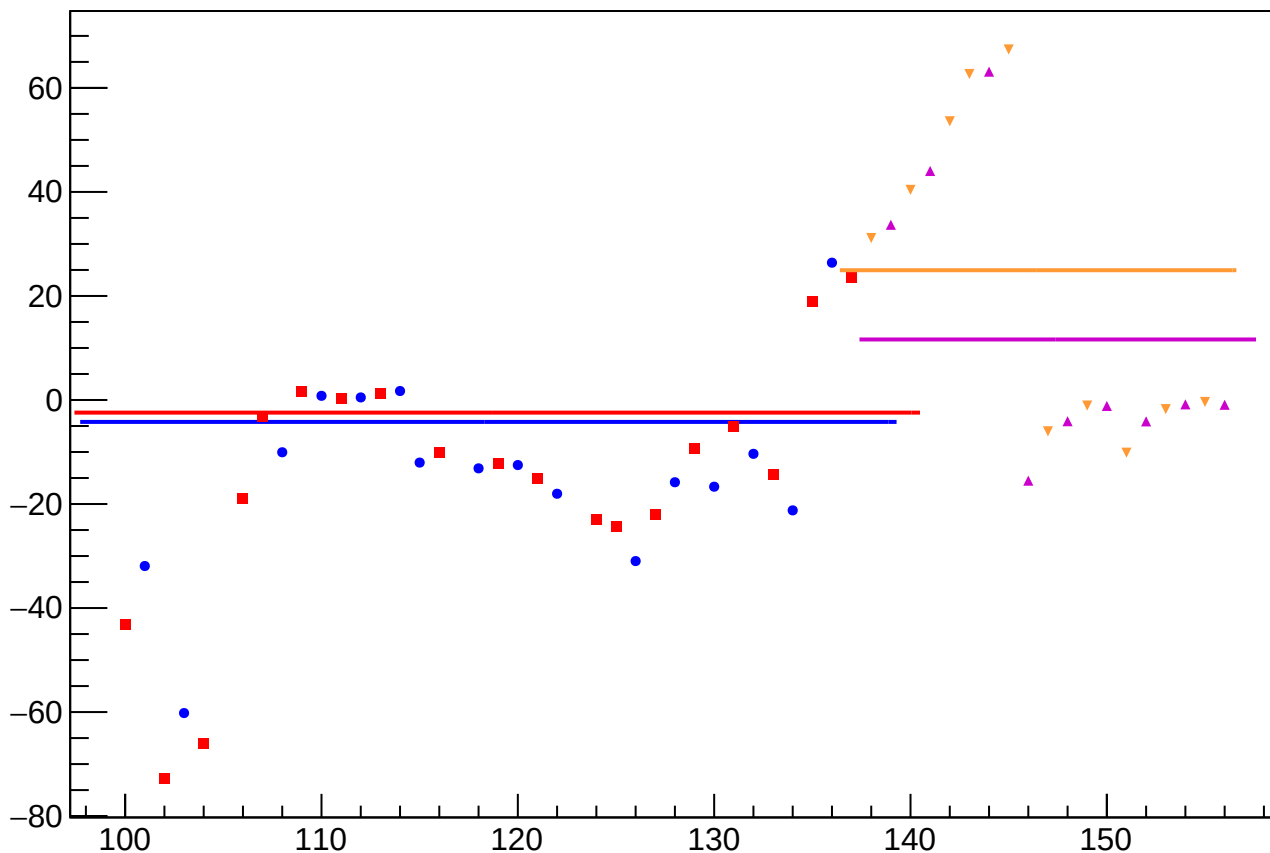
Right: -0.212 ± 0.003 $\chi^2/\text{NDF}: 27912.3/34$

In: -0.158 ± 0.002 $\chi^2/\text{NDF}: 15833.9/24$

Out: -0.193 ± 0.003 $\chi^2/\text{NDF}: 17571.1/28$

All: -0.173 ± 0.002 $\chi^2/\text{NDF}: 33519.7/53$

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.214 ± 0.055 $\chi^2/\text{NDF}: 75215.4/15$

Left Out: 24.950 ± 0.088 $\chi^2/\text{NDF}: 87593.3/9$

Right Out: -2.427 ± 0.046 $\chi^2/\text{NDF}: 80724.5/18$

Left In: 11.636 ± 0.072 $\chi^2/\text{NDF}: 97854.5/8$

Left: 17.009 ± 0.056 $\chi^2/\text{NDF}: 199140.8/18$

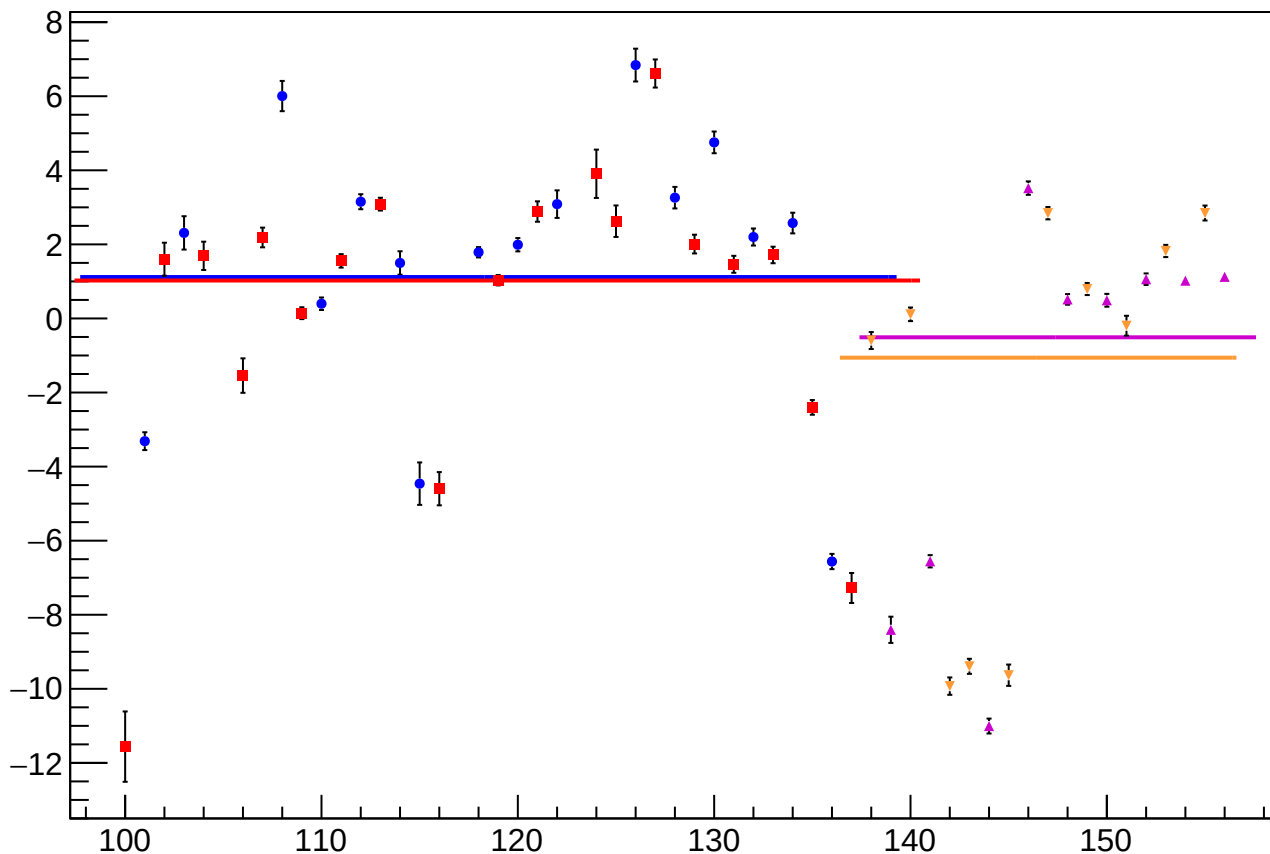
Right: -3.171 ± 0.035 $\chi^2/\text{NDF}: 156563.0/34$

In: 1.560 ± 0.044 $\chi^2/\text{NDF}: 203647.3/24$

Out: 3.498 ± 0.041 $\chi^2/\text{NDF}: 244383.1/28$

All: 2.592 ± 0.030 $\chi^2/\text{NDF}: 449081.5/53$

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: -1.059 $\pm$ 0.063 χ^2 /NDF: 5392.0/9

Right Out: 1.025 $\pm$ 0.057 χ^2 /NDF: 1612.0/18

Left In: -0.509 $\pm$ 0.050 χ^2 /NDF: 5649.4/8

Left: -0.723 $\pm$ 0.039 χ^2 /NDF: 11087.7/18

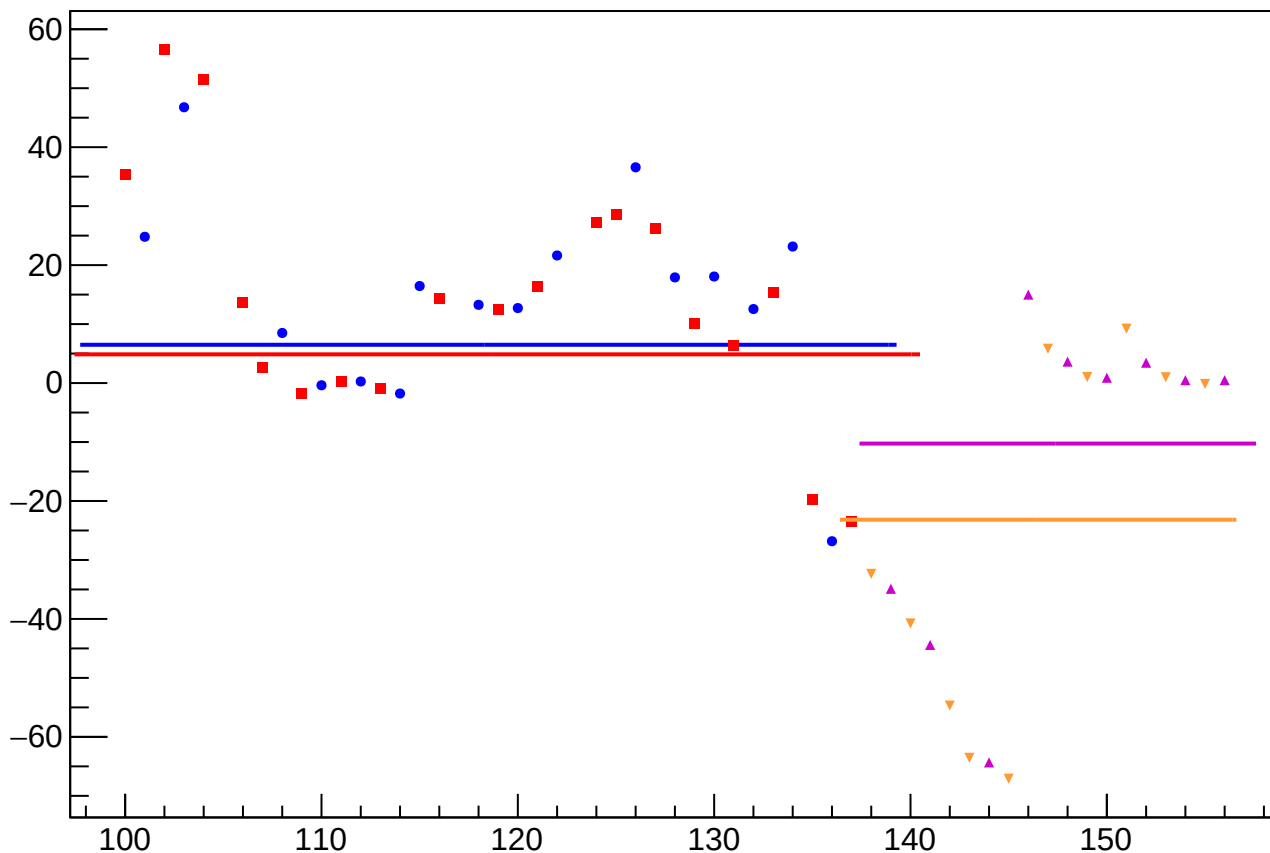
Right: 1.069 $\pm$ 0.042 χ^2 /NDF: 4205.0/34

In: 0.158 $\pm$ 0.039 χ^2 /NDF: 8669.2/24

Out: 0.084 $\pm$ 0.042 χ^2 /NDF: 7601.9/28

All: 0.124 $\pm$ 0.029 χ^2 /NDF: 16272.7/53

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.492+/-0.065 χ^2/NDF : 70623.9/15

Left Out: -23.174+/-0.087 χ^2/NDF : 91089.8/9

Right Out: 4.869+/-0.059 χ^2/NDF : 75265.6/18

Left In: -10.262+/-0.069 χ^2/NDF : 99085.5/8

Left: -15.298+/-0.054 χ^2/NDF : 203720.7/18

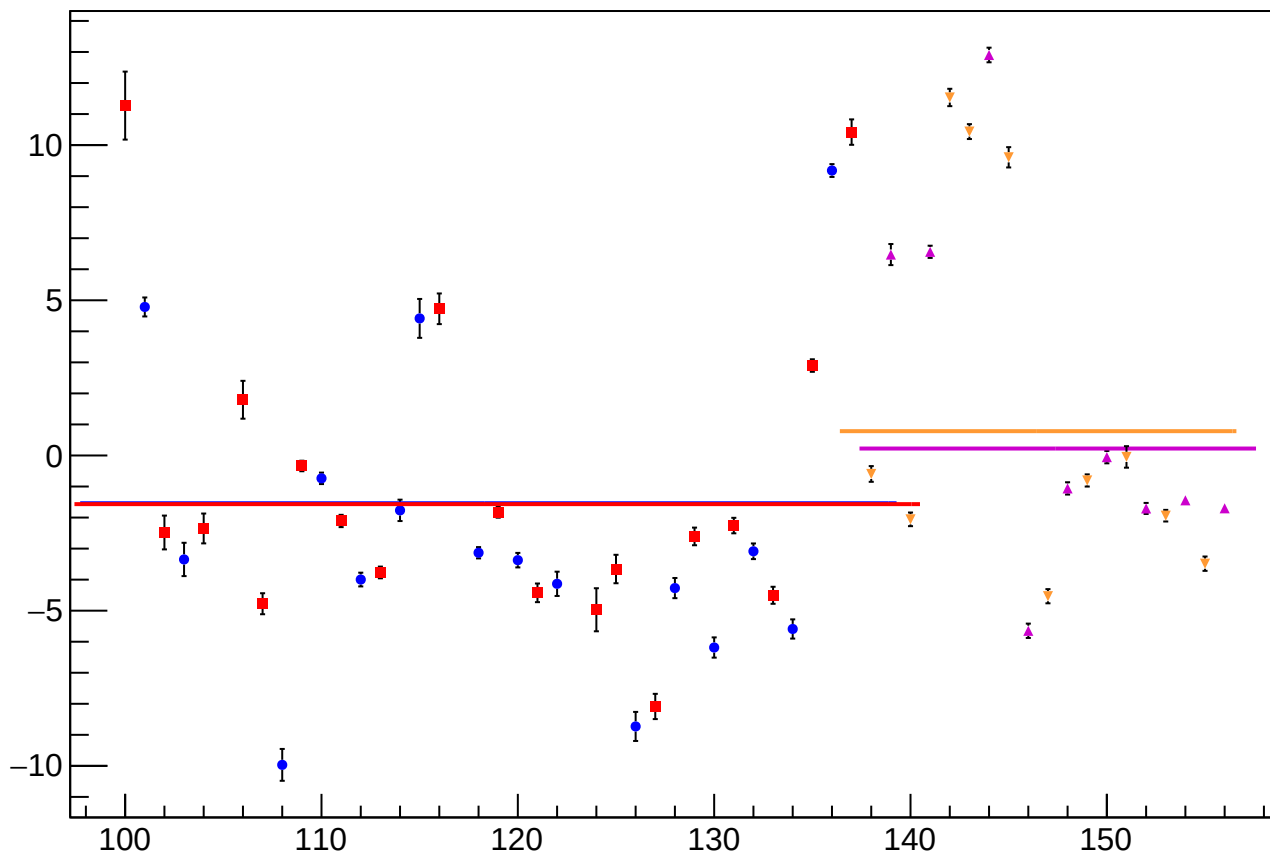
Right: 5.602+/-0.044 χ^2/NDF : 146229.3/34

In: -1.380+/-0.047 χ^2/NDF : 200711.5/24

Out: -4.055+/-0.049 χ^2/NDF : 237771.7/28

All: -2.679+/-0.034 χ^2/NDF : 440024.3/53

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: 0.783 ± 0.075 χ^2/NDF : 5186.7/9

Right Out: -1.567 ± 0.065 χ^2/NDF : 2497.0/18

Left In: 0.224 ± 0.059 χ^2/NDF : 5501.0/8

Left: 0.438 ± 0.047 χ^2/NDF : 10721.8/18

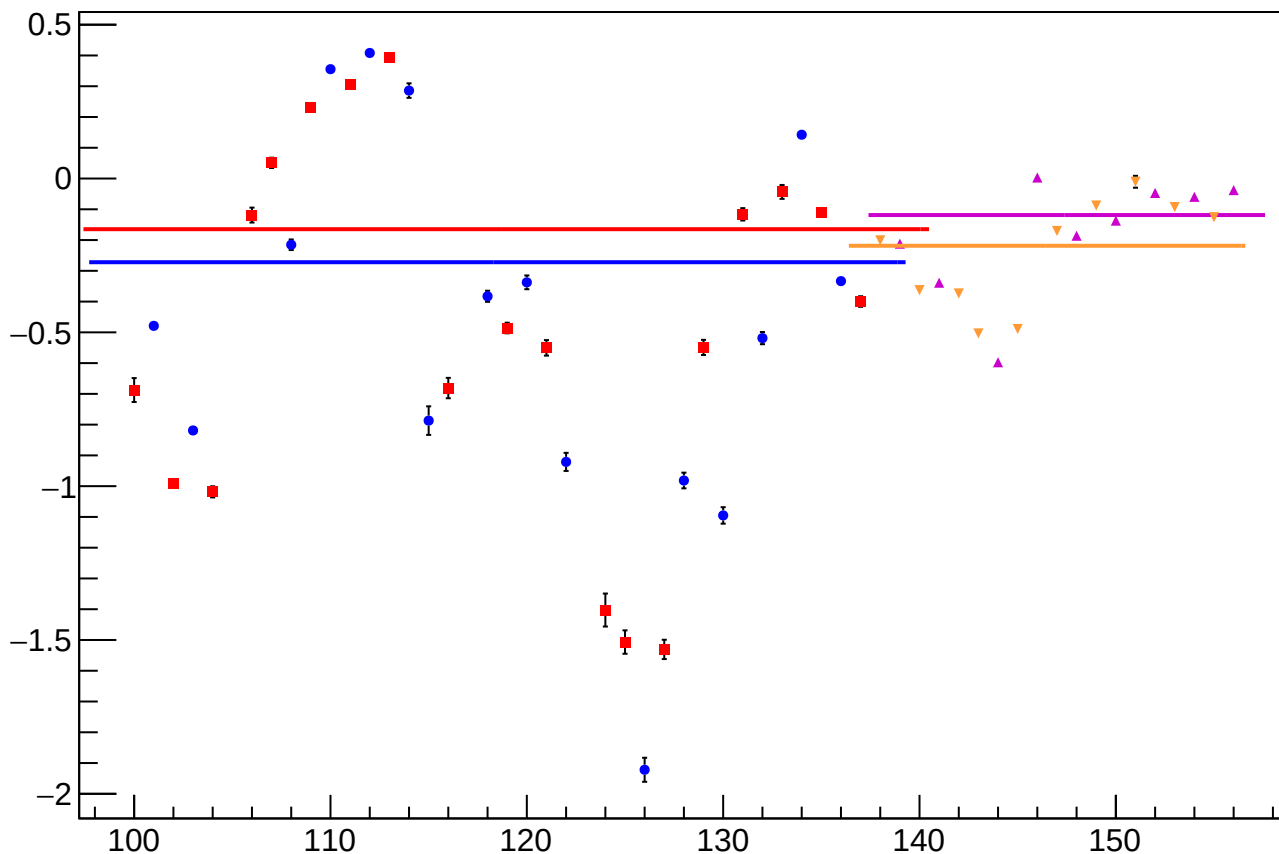
Right: -1.555 ± 0.047 χ^2/NDF : 7032.9/34

In: -0.518 ± 0.045 χ^2/NDF : 10409.3/24

Out: -0.570 ± 0.049 χ^2/NDF : 8245.3/28

All: -0.542 ± 0.033 χ^2/NDF : 18655.2/53

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.004 χ^2/NDF : 12063.6/15

Left Out: -0.219 ± 0.003 χ^2/NDF : 1955.5/9

Right Out: -0.165 ± 0.004 χ^2/NDF : 15490.5/18

Left In: -0.119 ± 0.002 χ^2/NDF : 2806.8/8

Left: -0.154 ± 0.002 χ^2/NDF : 5335.0/18

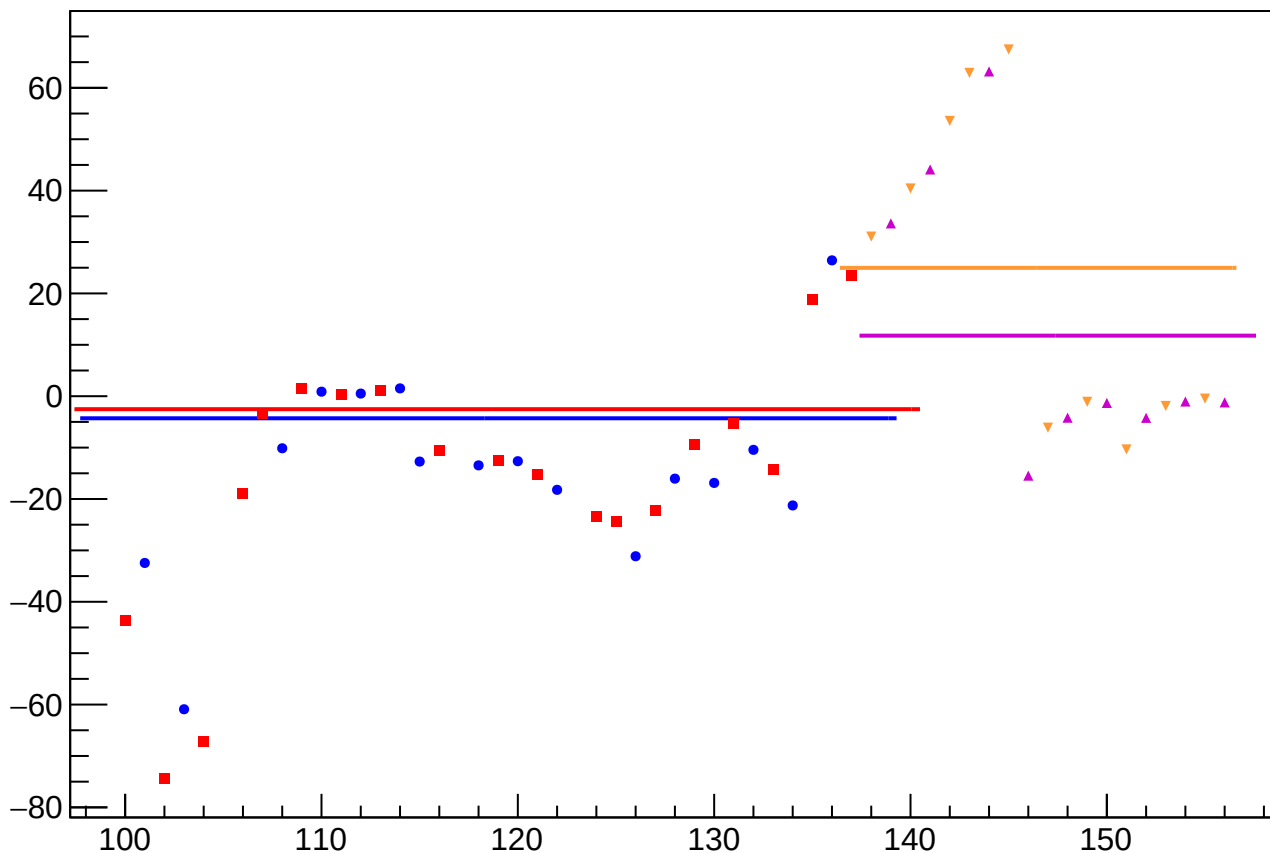
Right: -0.214 ± 0.003 χ^2/NDF : 27917.4/34

In: -0.159 ± 0.002 χ^2/NDF : 15876.2/24

Out: -0.195 ± 0.003 χ^2/NDF : 17558.6/28

All: -0.174 ± 0.002 χ^2/NDF : 33555.7/53

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: 24.976 ± 0.089 $\chi^2/\text{NDF}: 86408.2/9$

Right Out: -2.524 ± 0.047 $\chi^2/\text{NDF}: 79883.8/18$

Left In: 11.783 ± 0.074 $\chi^2/\text{NDF}: 96074.7/8$

Left: 17.176 ± 0.057 $\chi^2/\text{NDF}: 195547.7/18$

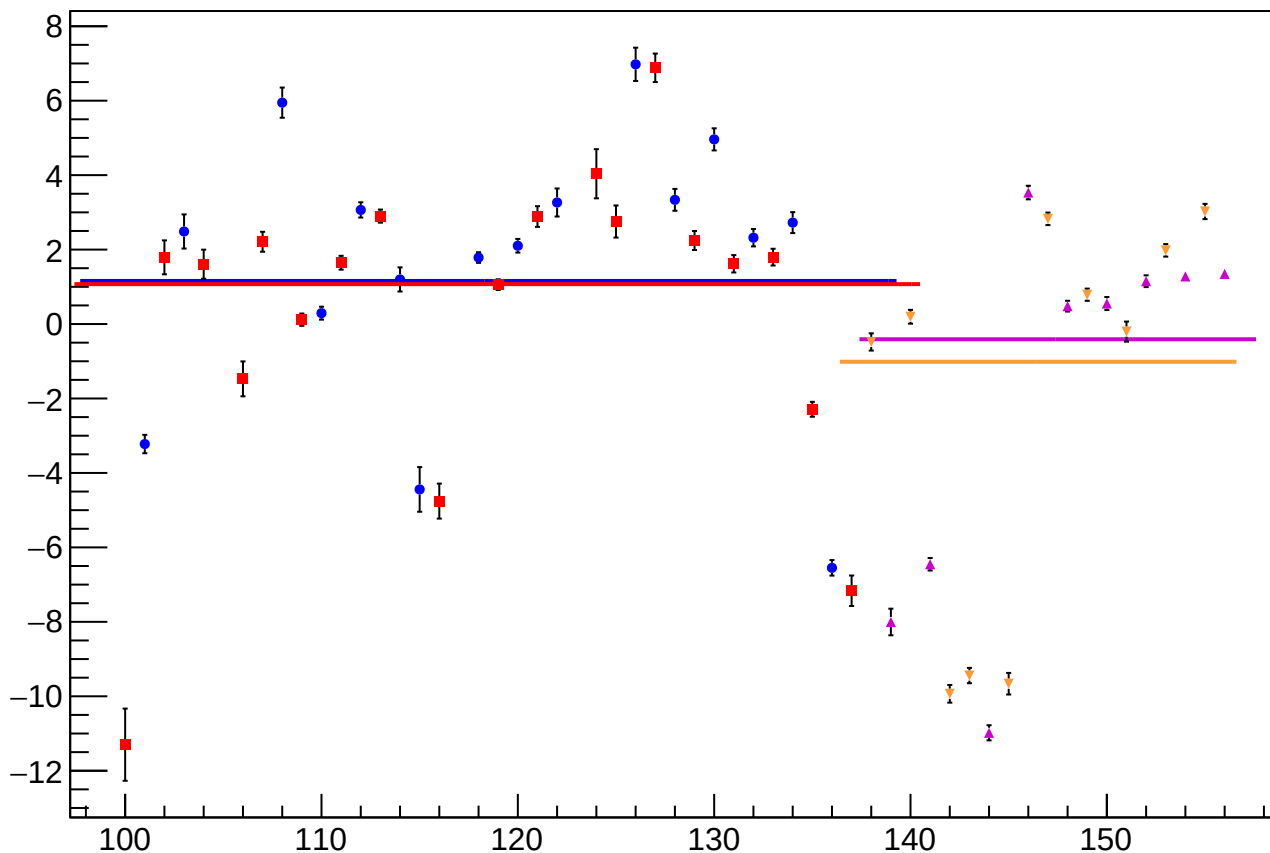
Right: -3.265 ± 0.036 $\chi^2/\text{NDF}: 154689.9/34$

In: 1.544 ± 0.044 $\chi^2/\text{NDF}: 200520.1/24$

Out: 3.545 ± 0.042 $\chi^2/\text{NDF}: 241115.7/28$

All: 2.609 ± 0.030 $\chi^2/\text{NDF}: 442712.8/53$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.158 ± 0.062 $\chi^2/\text{NDF}: 2549.9/15$

Left Out: -1.013 ± 0.064 $\chi^2/\text{NDF}: 5382.0/9$

Right Out: 1.072 ± 0.058 $\chi^2/\text{NDF}: 1551.4/18$

Left In: -0.409 ± 0.051 $\chi^2/\text{NDF}: 5562.0/8$

Left: -0.647 ± 0.040 $\chi^2/\text{NDF}: 10998.5/18$

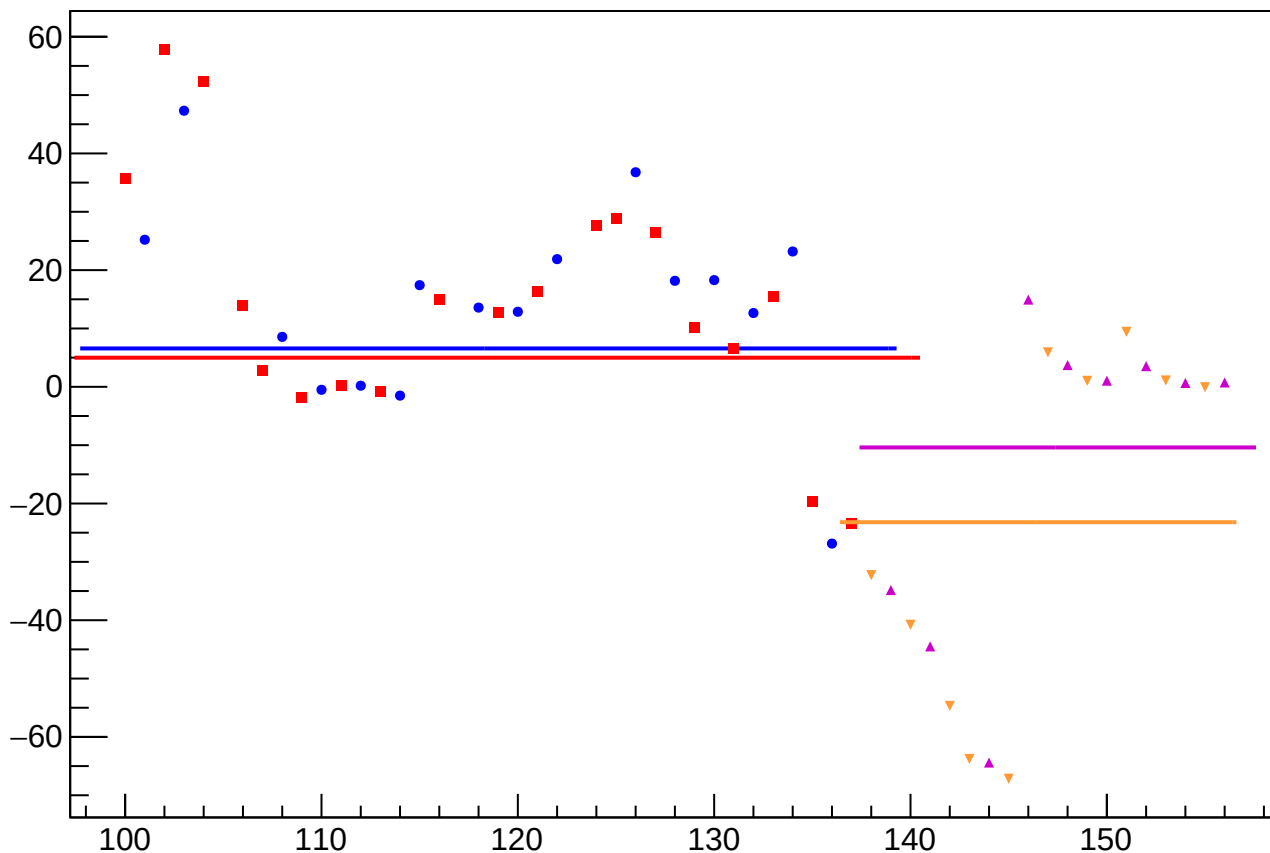
Right: 1.113 ± 0.042 $\chi^2/\text{NDF}: 4102.4/34$

In: 0.236 ± 0.039 $\chi^2/\text{NDF}: 8493.6/24$

Out: 0.121 ± 0.043 $\chi^2/\text{NDF}: 7516.0/28$

All: 0.183 ± 0.029 $\chi^2/\text{NDF}: 16013.5/53$

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: -23.202+/-0.088 χ^2/NDF : 89816.9/9

Right Out: 4.992+/-0.060 χ^2/NDF : 74461.3/18

Left In: -10.392+/-0.071 χ^2/NDF : 97309.6/8

Left: -15.459+/-0.055 χ^2/NDF : 200074.6/18

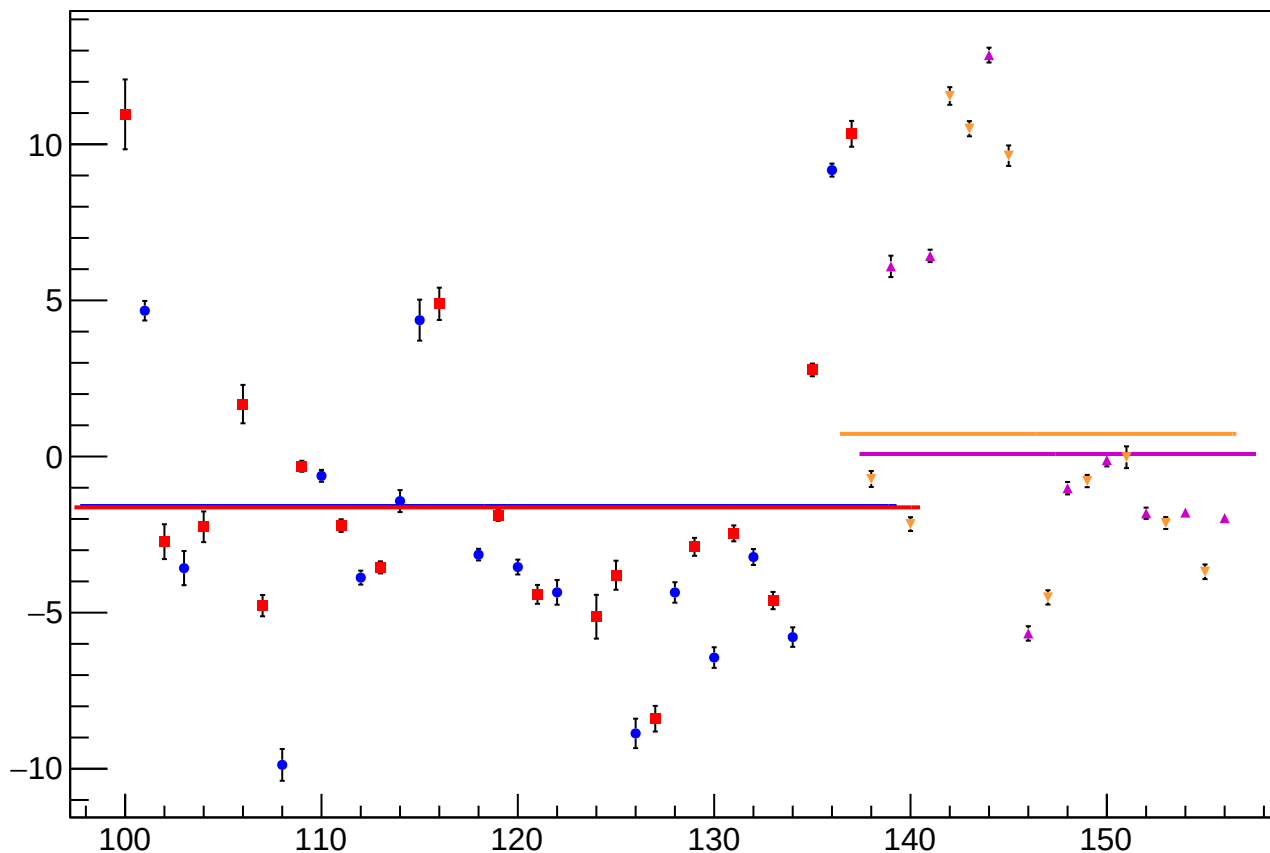
Right: 5.710+/-0.045 χ^2/NDF : 144504.9/34

In: -1.362+/-0.048 χ^2/NDF : 197606.3/24

Out: -4.107+/-0.050 χ^2/NDF : 234552.2/28

All: -2.698+/-0.035 χ^2/NDF : 433722.2/53

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: 0.726 ± 0.076 χ^2/NDF : 5187.4/9

Right Out: -1.628 ± 0.066 χ^2/NDF : 2422.3/18

Left In: 0.081 ± 0.061 χ^2/NDF : 5436.2/8

Left: 0.332 ± 0.047 χ^2/NDF : 10667.5/18

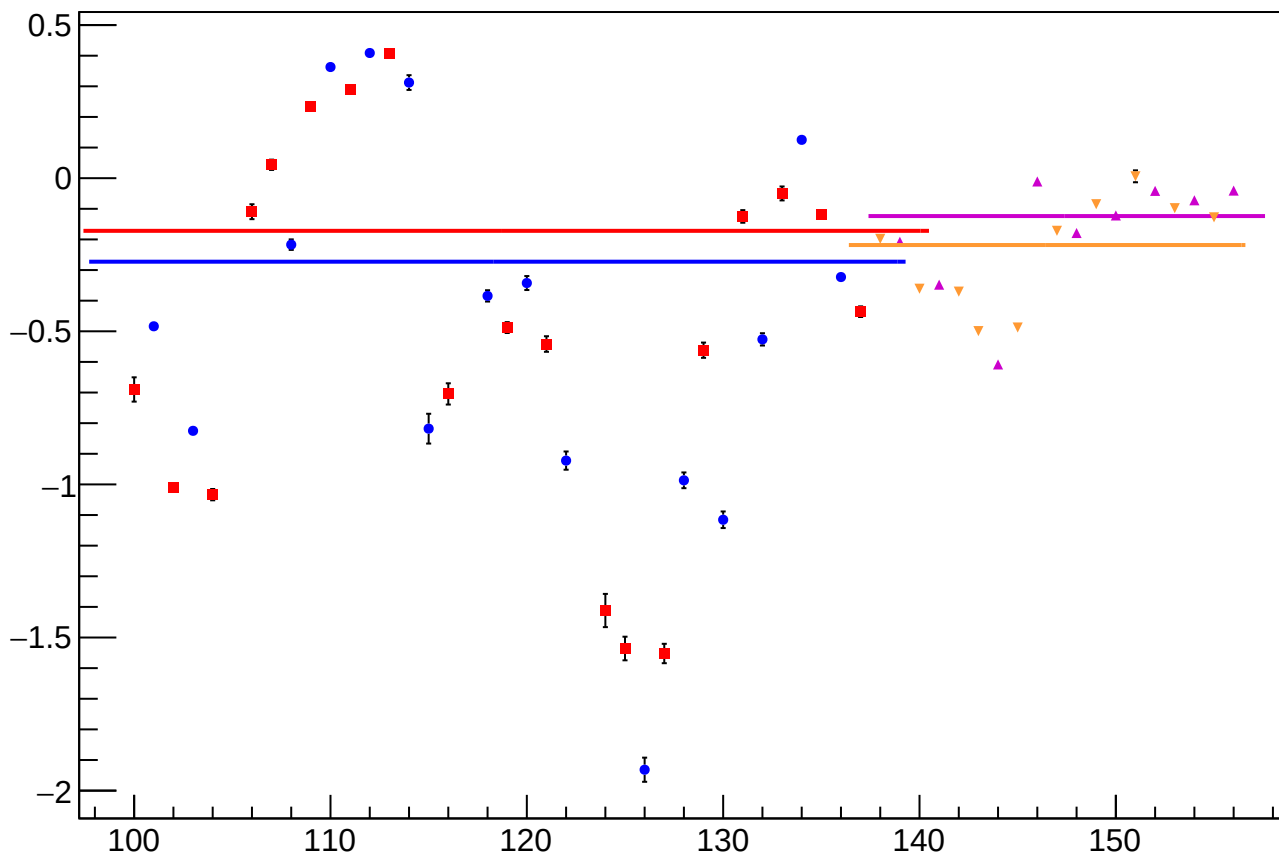
Right: -1.609 ± 0.048 χ^2/NDF : 6895.1/34

In: -0.623 ± 0.046 χ^2/NDF : 10228.8/24

Out: -0.620 ± 0.050 χ^2/NDF : 8157.3/28

All: -0.622 ± 0.034 χ^2/NDF : 18386.1/53

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: -0.218+/-0.003 χ^2/NDF : 1887.1/9

Right Out: -0.172+/-0.004 χ^2/NDF : 15322.3/18

Left In: -0.124+/-0.003 χ^2/NDF : 2740.4/8

Left: -0.157+/-0.002 χ^2/NDF : 5125.7/18

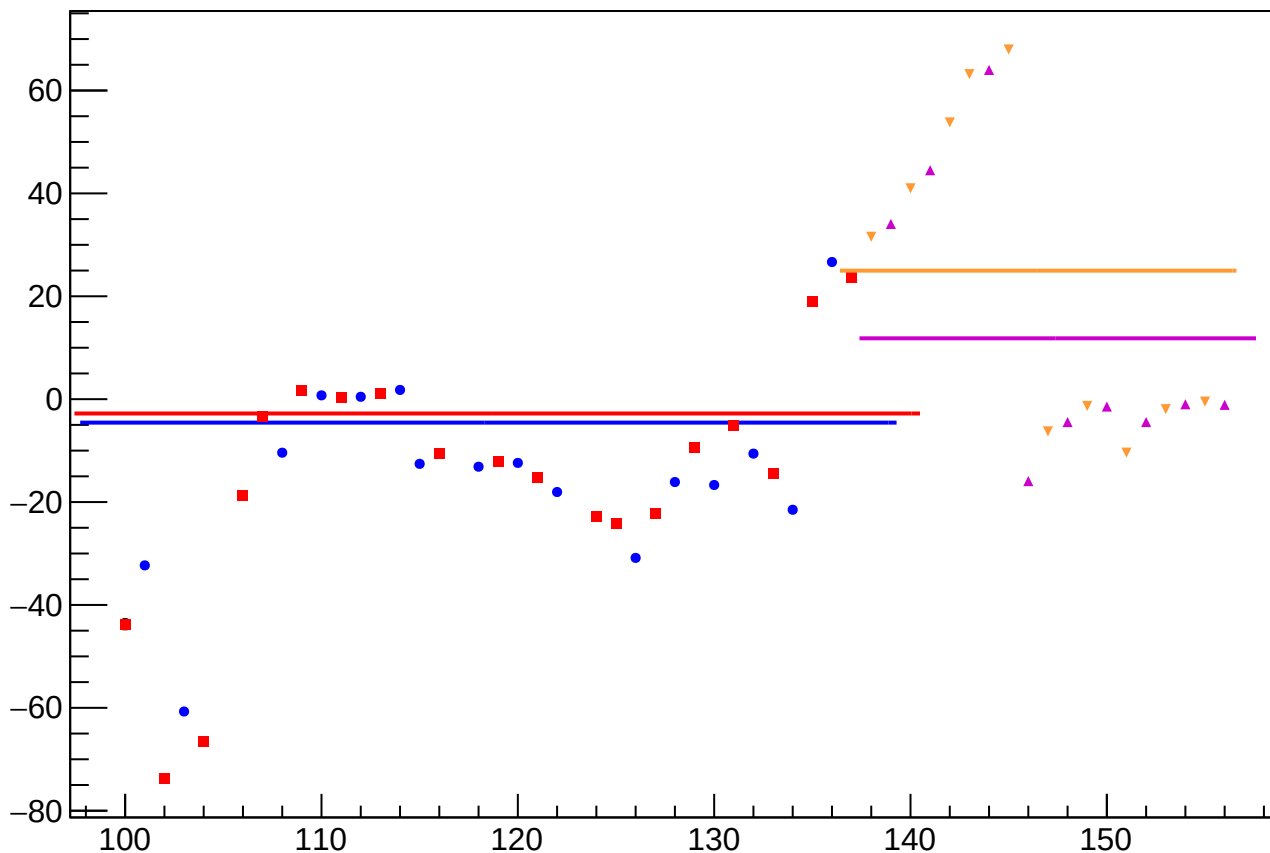
Right: -0.218+/-0.003 χ^2/NDF : 27488.4/34

In: -0.163+/-0.002 χ^2/NDF : 15513.3/24

Out: -0.198+/-0.003 χ^2/NDF : 17290.5/28

All: -0.178+/-0.002 χ^2/NDF : 32913.1/53

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: 24.987 ± 0.090 $\chi^2/\text{NDF}: 85820.3/9$

Right Out: -2.780 ± 0.049 $\chi^2/\text{NDF}: 77905.3/18$

Left In: 11.828 ± 0.075 $\chi^2/\text{NDF}: 95057.0/8$

Left: 17.218 ± 0.058 $\chi^2/\text{NDF}: 193457.9/18$

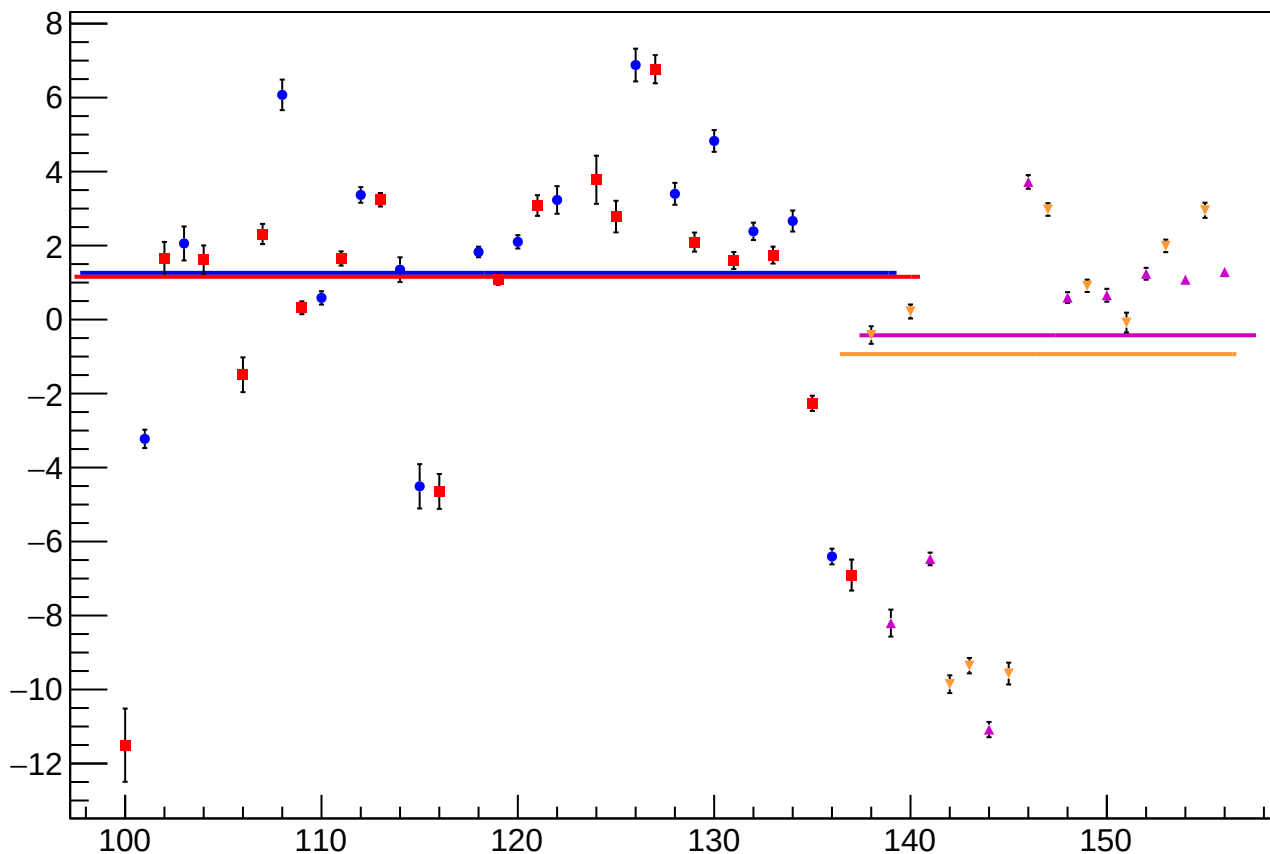
Right: -3.530 ± 0.037 $\chi^2/\text{NDF}: 151106.4/34$

In: 1.407 ± 0.045 $\chi^2/\text{NDF}: 197981.5/24$

Out: 3.455 ± 0.043 $\chi^2/\text{NDF}: 237298.0/28$

All: 2.491 ± 0.031 $\chi^2/\text{NDF}: 436361.6/53$

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: -0.933 $\pm$ 0.065 χ^2 /NDF: 5222.4/9

Right Out: 1.157 $\pm$ 0.059 χ^2 /NDF: 1490.5/18

Left In: -0.425 $\pm$ 0.052 χ^2 /NDF: 5449.4/8

Left: -0.626 $\pm$ 0.041 χ^2 /NDF: 10709.3/18

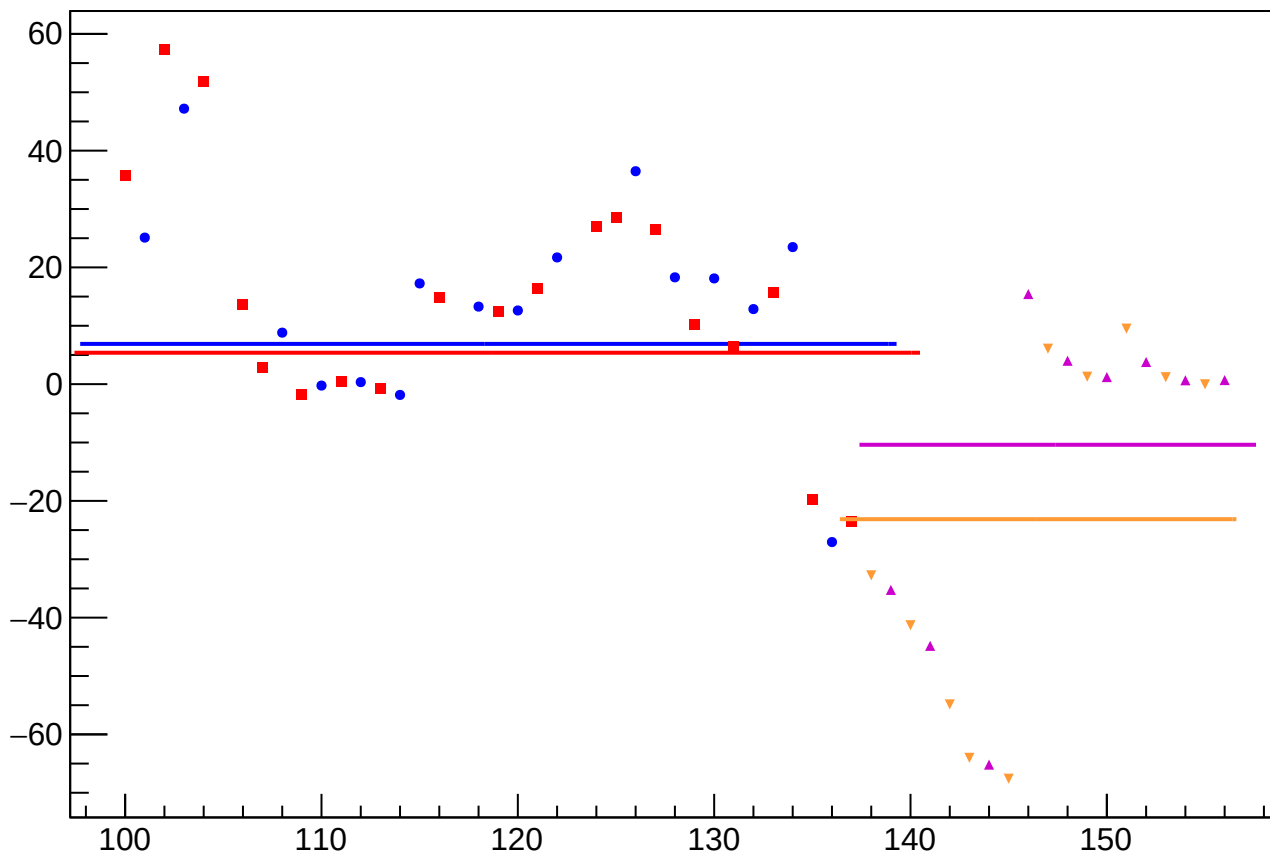
Right: 1.208 $\pm$ 0.043 χ^2 /NDF: 3935.9/34

In: 0.277 $\pm$ 0.040 χ^2 /NDF: 8325.9/24

Out: 0.204 $\pm$ 0.044 χ^2 /NDF: 7283.4/28

All: 0.243 $\pm$ 0.029 χ^2 /NDF: 15610.9/53

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: -23.137+/-0.089 χ^2/NDF : 89122.5/9

Right Out: 5.381+/-0.062 χ^2/NDF : 72230.2/18

Left In: -10.387+/-0.072 χ^2/NDF : 96238.9/8

Left: -15.443+/-0.056 χ^2/NDF : 197787.1/18

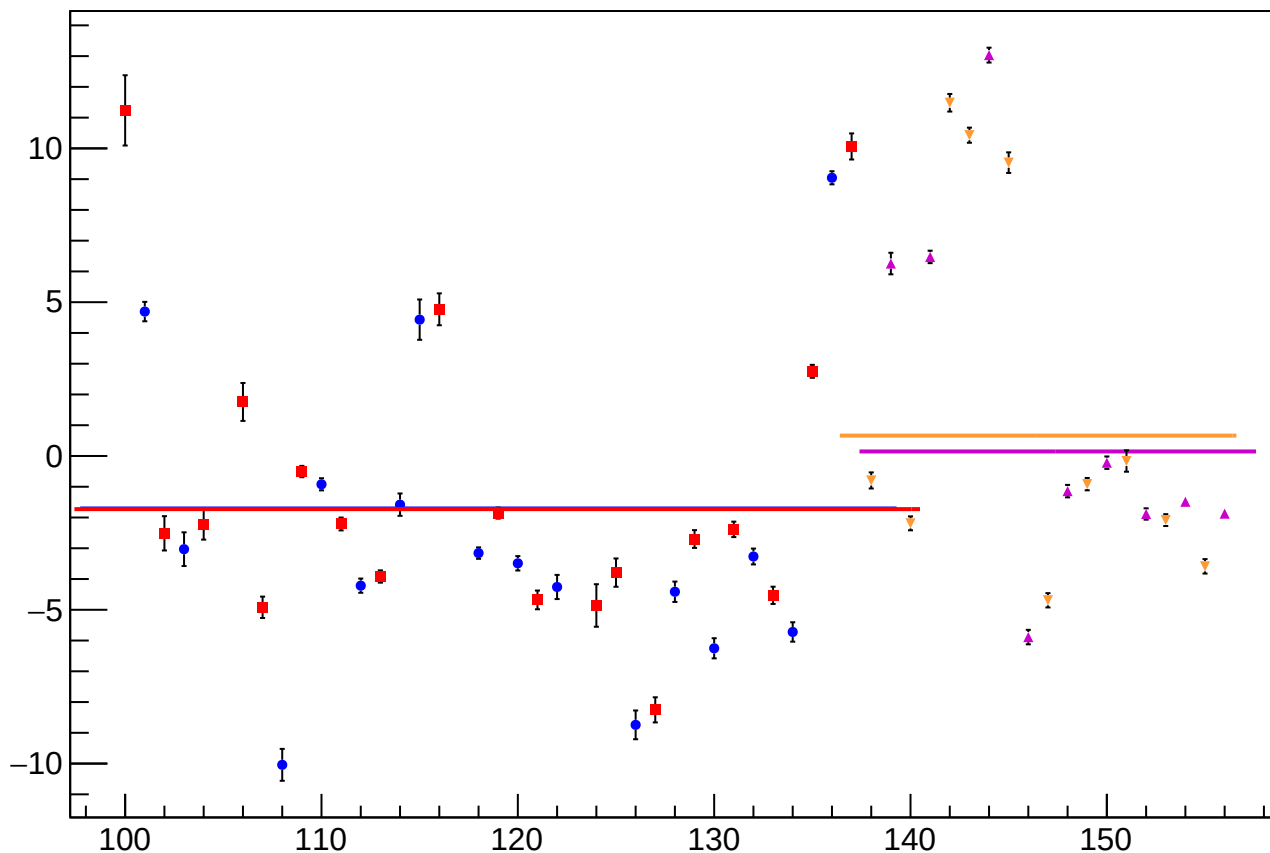
Right: 6.071+/-0.045 χ^2/NDF : 140552.1/34

In: -1.169+/-0.049 χ^2/NDF : 194995.6/24

Out: -3.895+/-0.051 χ^2/NDF : 230868.4/28

All: -2.491+/-0.035 χ^2/NDF : 427354.1/53

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: 0.663 ± 0.077 χ^2/NDF : 5030.0/9

Right Out: -1.727 ± 0.067 χ^2/NDF : 2309.6/18

Left In: 0.147 ± 0.062 χ^2/NDF : 5327.3/8

Left: 0.348 ± 0.048 χ^2/NDF : 10384.6/18

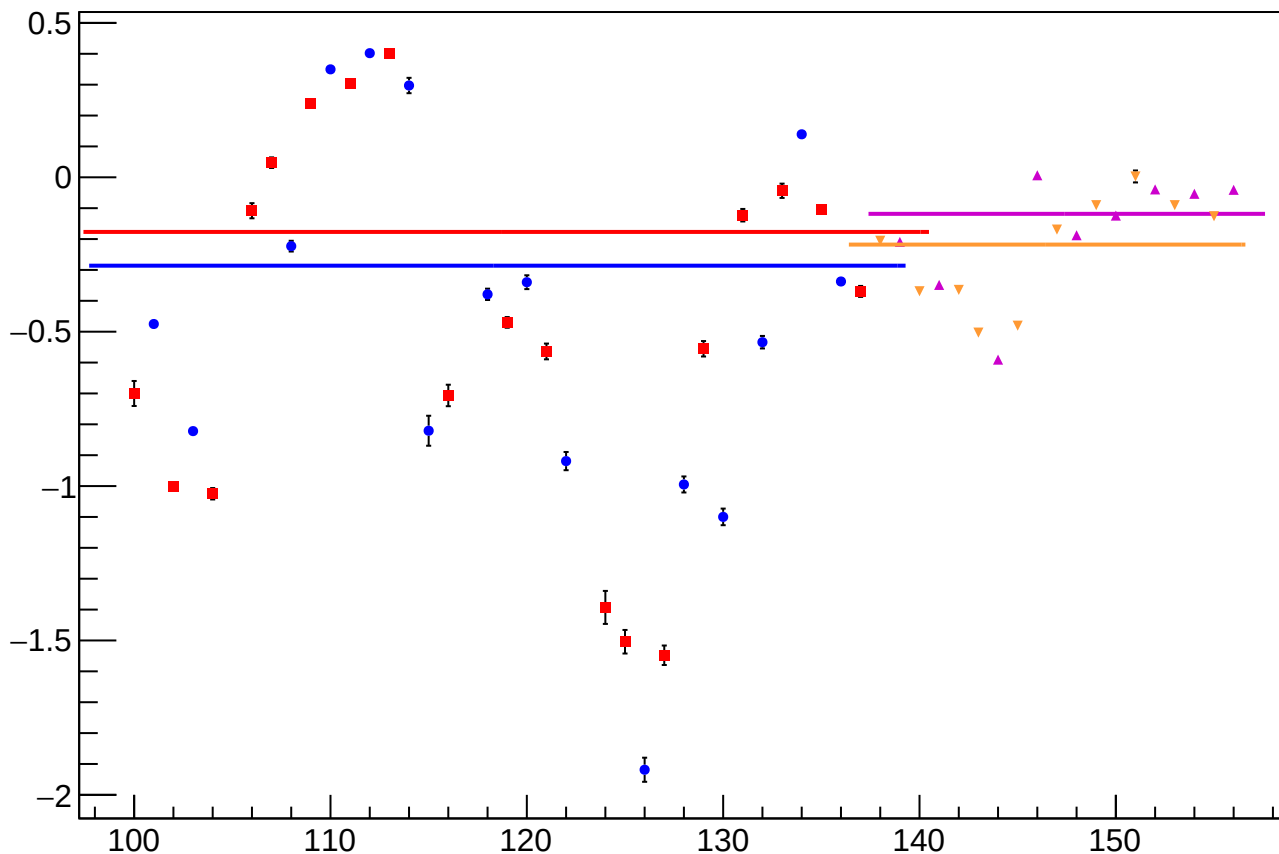
Right: -1.718 ± 0.049 χ^2/NDF : 6599.4/34

In: -0.642 ± 0.047 χ^2/NDF : 10002.9/24

Out: -0.701 ± 0.050 χ^2/NDF : 7888.6/28

All: -0.669 ± 0.034 χ^2/NDF : 17892.3/53

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.286 ± 0.004 $\chi^2/\text{NDF}: 11361.1/15$

Left Out: -0.218 ± 0.003 $\chi^2/\text{NDF}: 1864.5/9$

Right Out: -0.177 ± 0.004 $\chi^2/\text{NDF}: 14767.8/18$

Left In: -0.118 ± 0.003 $\chi^2/\text{NDF}: 2667.2/8$

Left: -0.154 ± 0.002 $\chi^2/\text{NDF}: 5066.9/18$

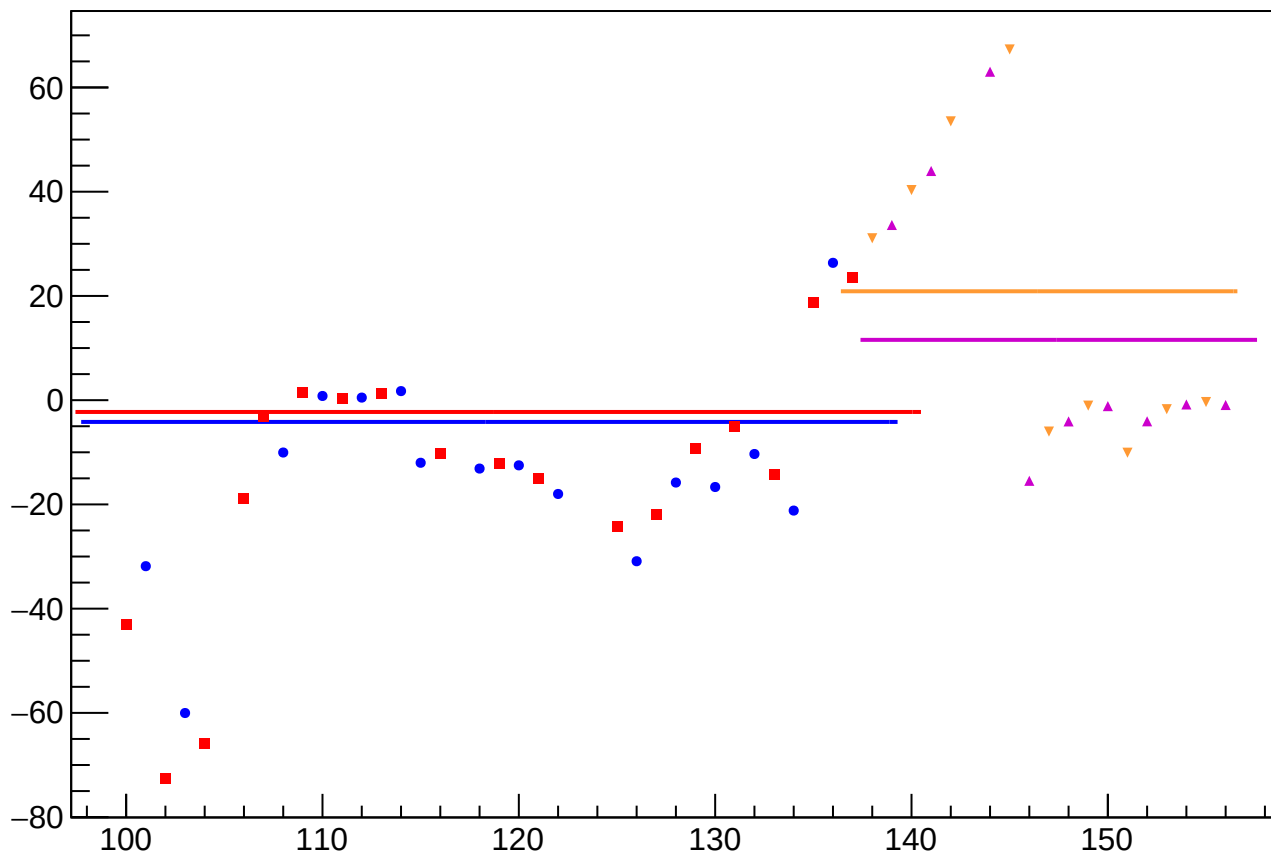
Right: -0.227 ± 0.003 $\chi^2/\text{NDF}: 26481.0/34$

In: -0.163 ± 0.002 $\chi^2/\text{NDF}: 15157.9/24$

Out: -0.200 ± 0.003 $\chi^2/\text{NDF}: 16693.4/28$

All: -0.179 ± 0.002 $\chi^2/\text{NDF}: 31970.8/53$

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: 20.894+/-0.092 χ^2/NDF : 68071.0/8

Right Out: -2.261+/-0.046 χ^2/NDF : 79624.4/17

Left In: 11.573+/-0.072 χ^2/NDF : 98128.5/8

Left: 15.104+/-0.057 χ^2/NDF : 172557.8/17

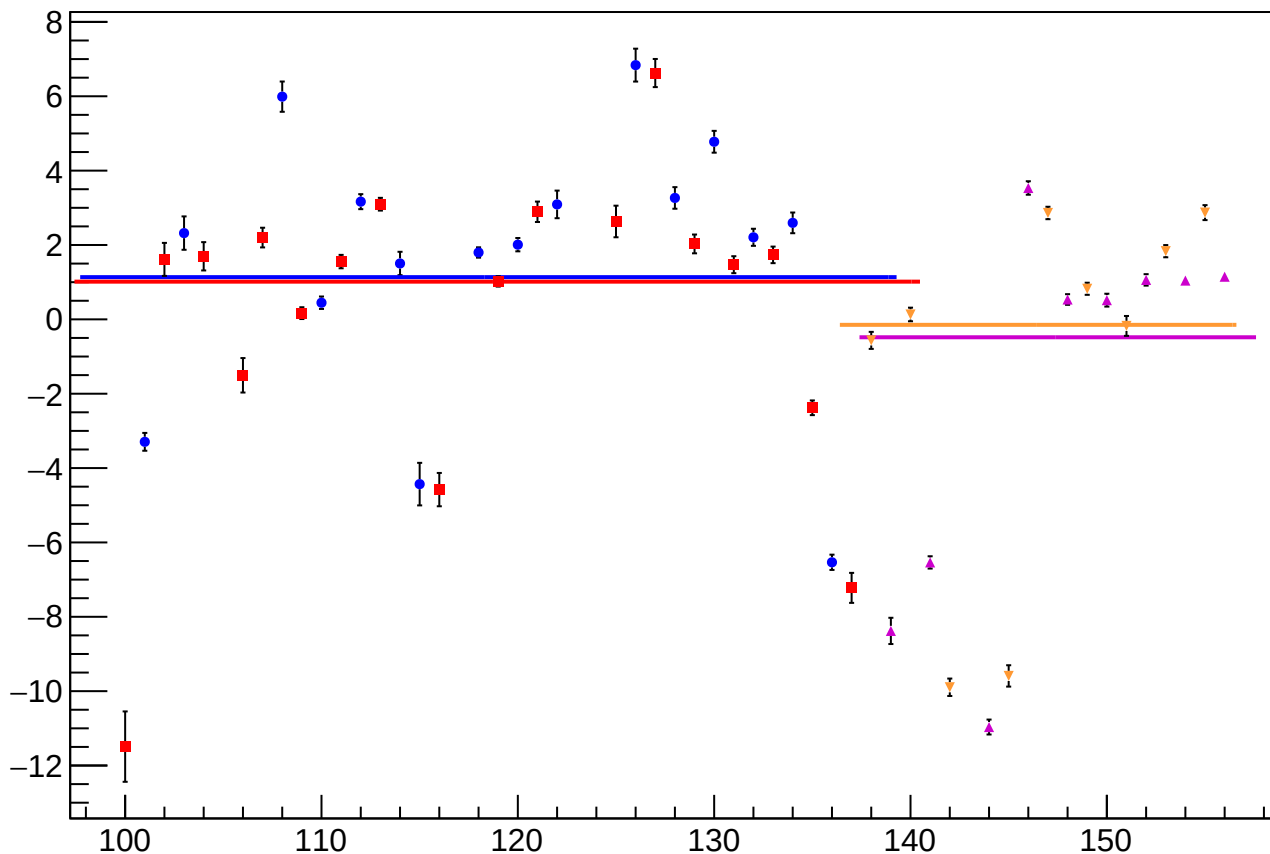
Right: -3.058+/-0.035 χ^2/NDF : 155737.8/33

In: 1.562+/-0.043 χ^2/NDF : 203983.3/24

Out: 2.365+/-0.041 χ^2/NDF : 198237.7/26

All: 1.985+/-0.030 χ^2/NDF : 402401.2/51

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: -0.148 ± 0.066 χ^2/NDF : 3545.8/8

Right Out: 1.014 ± 0.057 χ^2/NDF : 1593.0/17

Left In: -0.482 ± 0.050 χ^2/NDF : 5669.1/8

Left: -0.360 ± 0.040 χ^2/NDF : 9231.1/17

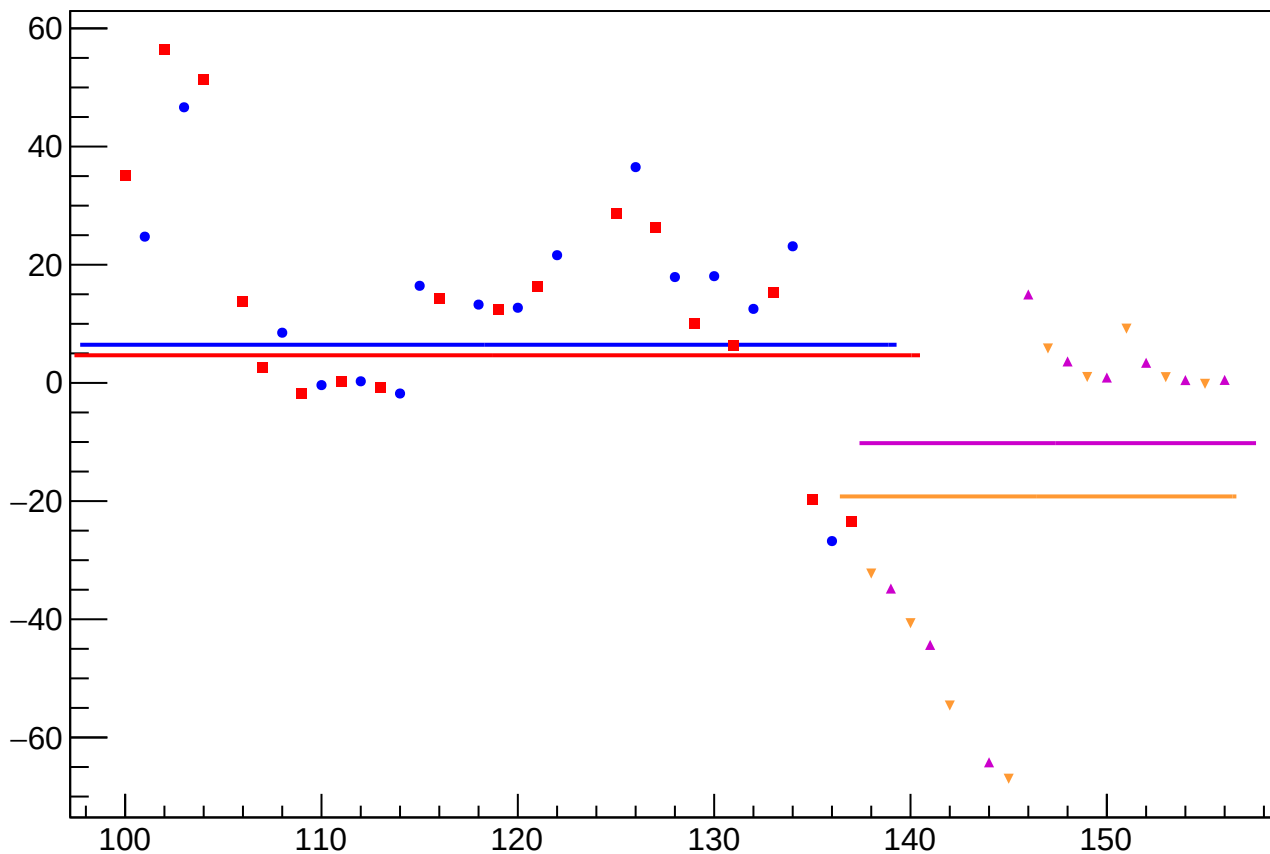
Right: 1.072 ± 0.041 χ^2/NDF : 4190.8/33

In: 0.180 ± 0.039 χ^2/NDF : 8691.2/24

Out: 0.517 ± 0.043 χ^2/NDF : 5315.1/26

All: 0.329 ± 0.029 χ^2/NDF : 14040.3/51

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: -19.211+/-0.090 χ^2/NDF : 70126.5/8

Right Out: 4.677+/-0.059 χ^2/NDF : 74414.5/17

Left In: -10.193+/-0.069 χ^2/NDF : 99343.9/8

Left: -13.507+/-0.055 χ^2/NDF : 175755.4/17

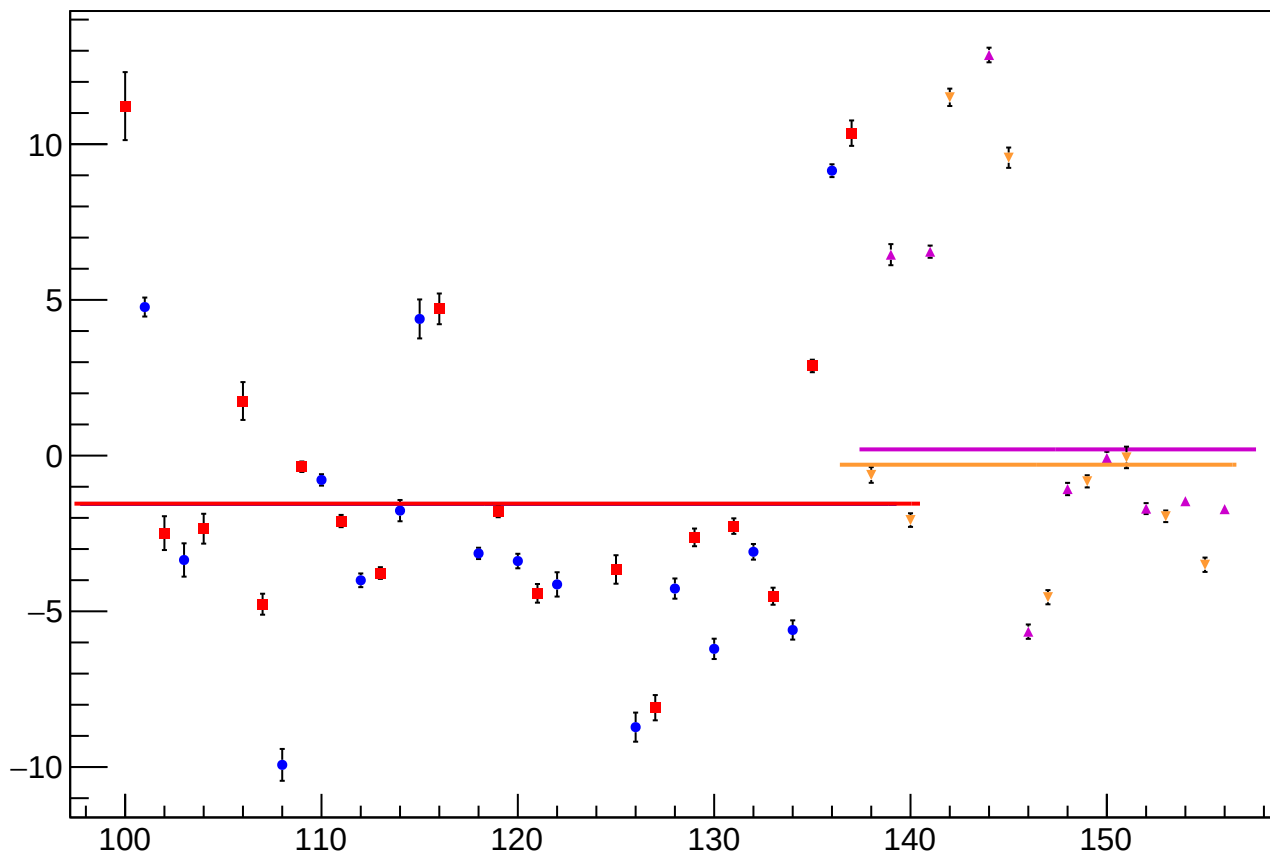
Right: 5.483+/-0.044 χ^2/NDF : 145618.4/33

In: -1.371+/-0.047 χ^2/NDF : 201030.2/24

Out: -2.467+/-0.049 χ^2/NDF : 193417.1/26

All: -1.894+/-0.034 χ^2/NDF : 394703.4/51

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: -0.292 ± 0.079 χ^2/NDF : 3397.2/8

Right Out: -1.543 ± 0.065 χ^2/NDF : 2473.0/17

Left In: 0.200 ± 0.059 χ^2/NDF : 5518.4/8

Left: 0.024 ± 0.047 χ^2/NDF : 8940.5/17

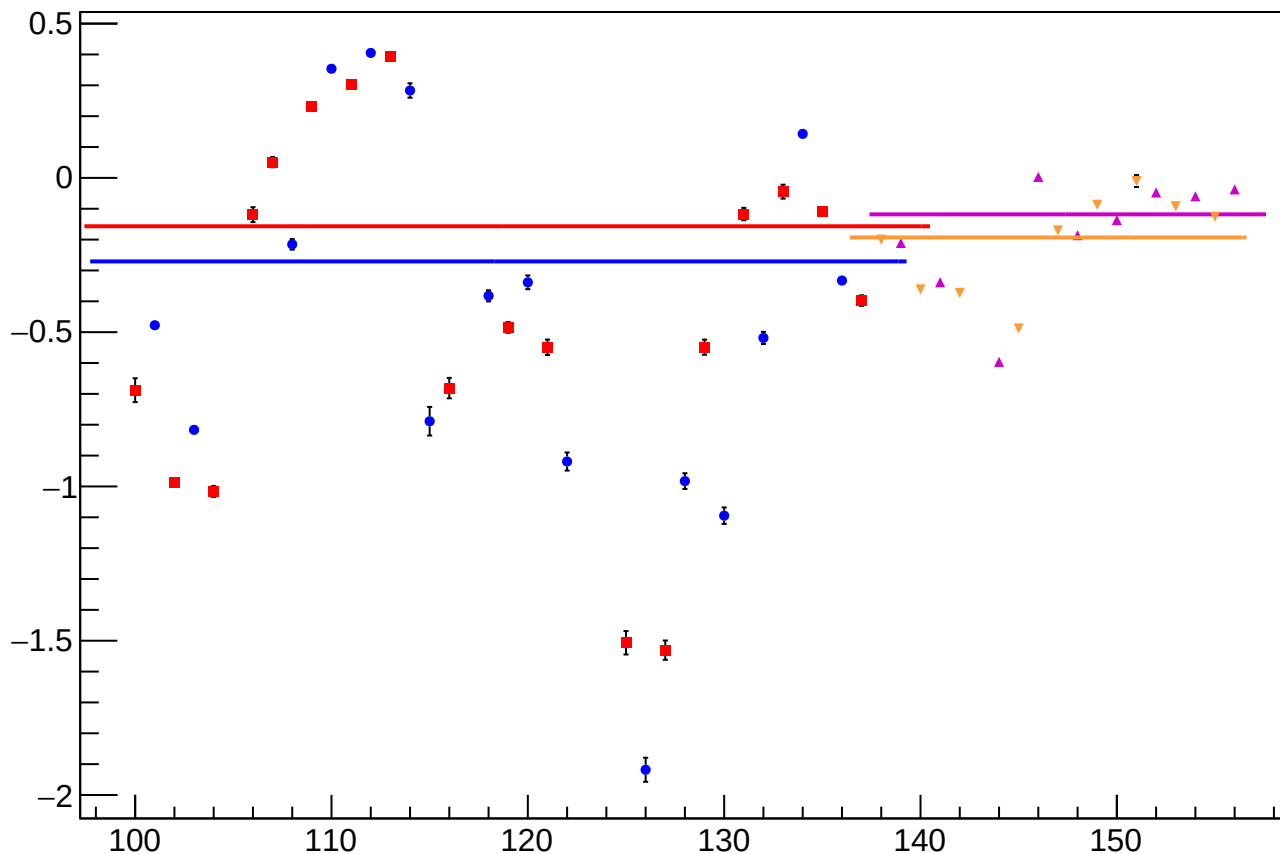
Right: -1.547 ± 0.047 χ^2/NDF : 7016.6/33

In: -0.536 ± 0.045 χ^2/NDF : 10432.3/24

Out: -1.042 ± 0.050 χ^2/NDF : 6020.4/26

All: -0.762 ± 0.033 χ^2/NDF : 16509.6/51

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: -0.193 ± 0.003 $\chi^2/\text{NDF}: 1330.5/8$

Right Out: -0.157 ± 0.004 $\chi^2/\text{NDF}: 15019.0/17$

Left In: -0.118 ± 0.002 $\chi^2/\text{NDF}: 2814.1/8$

Left: -0.143 ± 0.002 $\chi^2/\text{NDF}: 4451.5/17$

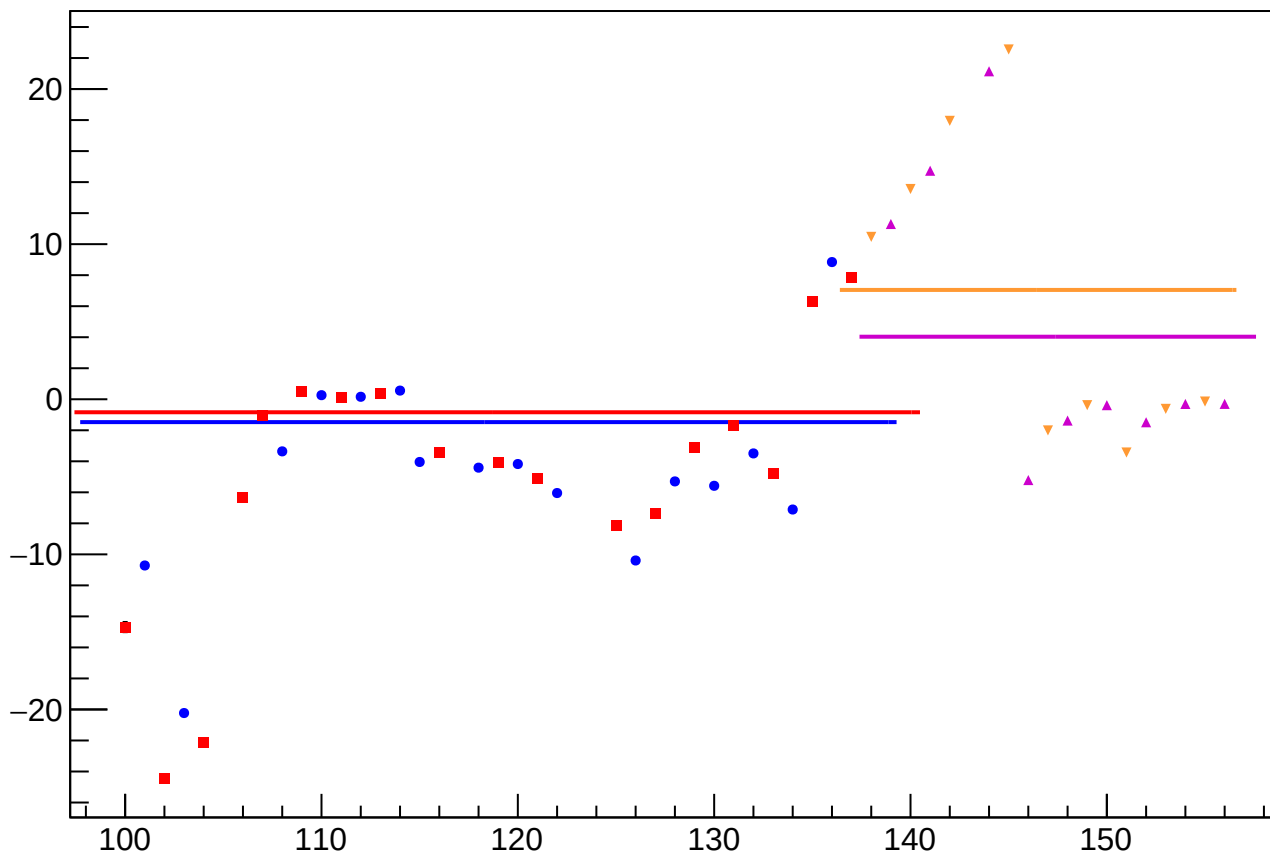
Right: -0.209 ± 0.003 $\chi^2/\text{NDF}: 27526.5/33$

In: -0.158 ± 0.002 $\chi^2/\text{NDF}: 15914.0/24$

Out: -0.176 ± 0.003 $\chi^2/\text{NDF}: 16398.7/26$

All: -0.165 ± 0.002 $\chi^2/\text{NDF}: 32343.7/51$

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: 7.049 ± 0.031 $\chi^2/\text{NDF}: 66913.1/8$

Right Out: -0.838 ± 0.016 $\chi^2/\text{NDF}: 78013.1/17$

Left In: 4.033 ± 0.025 $\chi^2/\text{NDF}: 95309.1/8$

Left: 5.197 ± 0.019 $\chi^2/\text{NDF}: 167907.6/17$

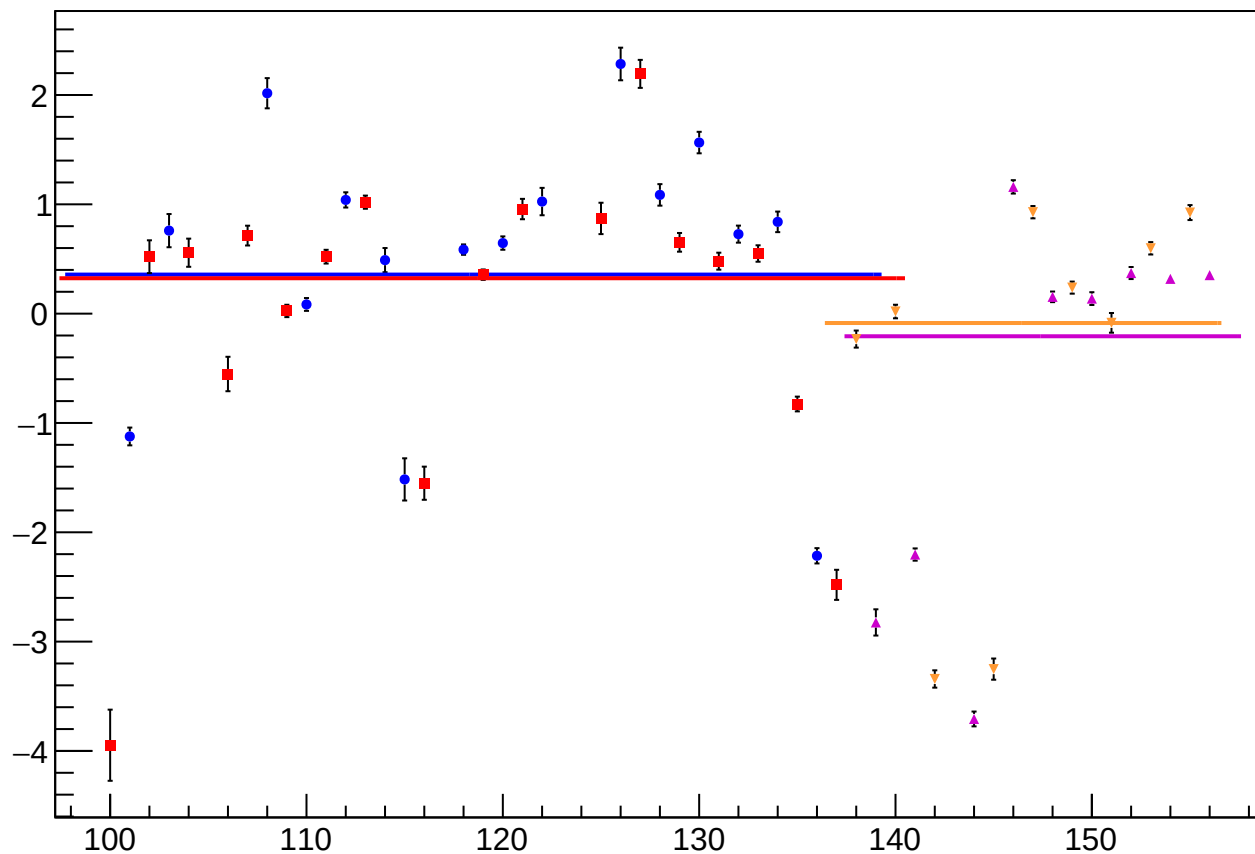
Right: -1.107 ± 0.012 $\chi^2/\text{NDF}: 152399.4/33$

In: 0.523 ± 0.015 $\chi^2/\text{NDF}: 200344.3/24$

Out: 0.797 ± 0.014 $\chi^2/\text{NDF}: 195117.0/26$

All: 0.666 ± 0.010 $\chi^2/\text{NDF}: 395637.2/51$

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: -0.086 ± 0.022 $\chi^2/\text{NDF}: 3481.9/8$

Right Out: 0.324 ± 0.020 $\chi^2/\text{NDF}: 1558.9/17$

Left In: -0.207 ± 0.017 $\chi^2/\text{NDF}: 5514.0/8$

Left: -0.162 ± 0.014 $\chi^2/\text{NDF}: 9014.2/17$

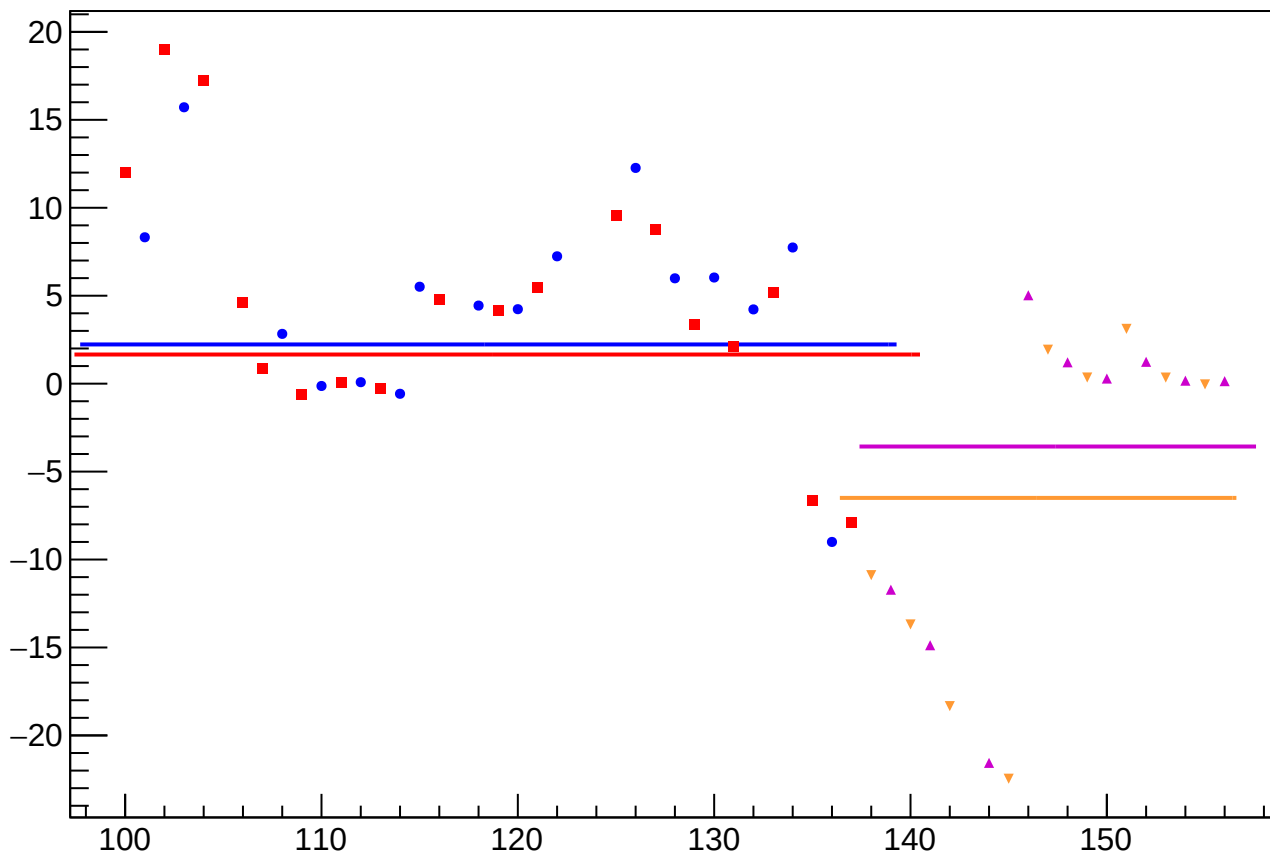
Right: 0.340 ± 0.014 $\chi^2/\text{NDF}: 4103.4/33$

In: 0.027 ± 0.013 $\chi^2/\text{NDF}: 8496.8/24$

Out: 0.146 ± 0.015 $\chi^2/\text{NDF}: 5228.4/26$

All: 0.080 ± 0.010 $\chi^2/\text{NDF}: 13761.1/51$

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: -6.495+/-0.031 χ^2/NDF : 68949.4/8

Right Out: 1.657+/-0.020 χ^2/NDF : 72797.4/17

Left In: -3.574+/-0.024 χ^2/NDF : 96654.5/8

Left: -4.670+/-0.019 χ^2/NDF : 171234.3/17

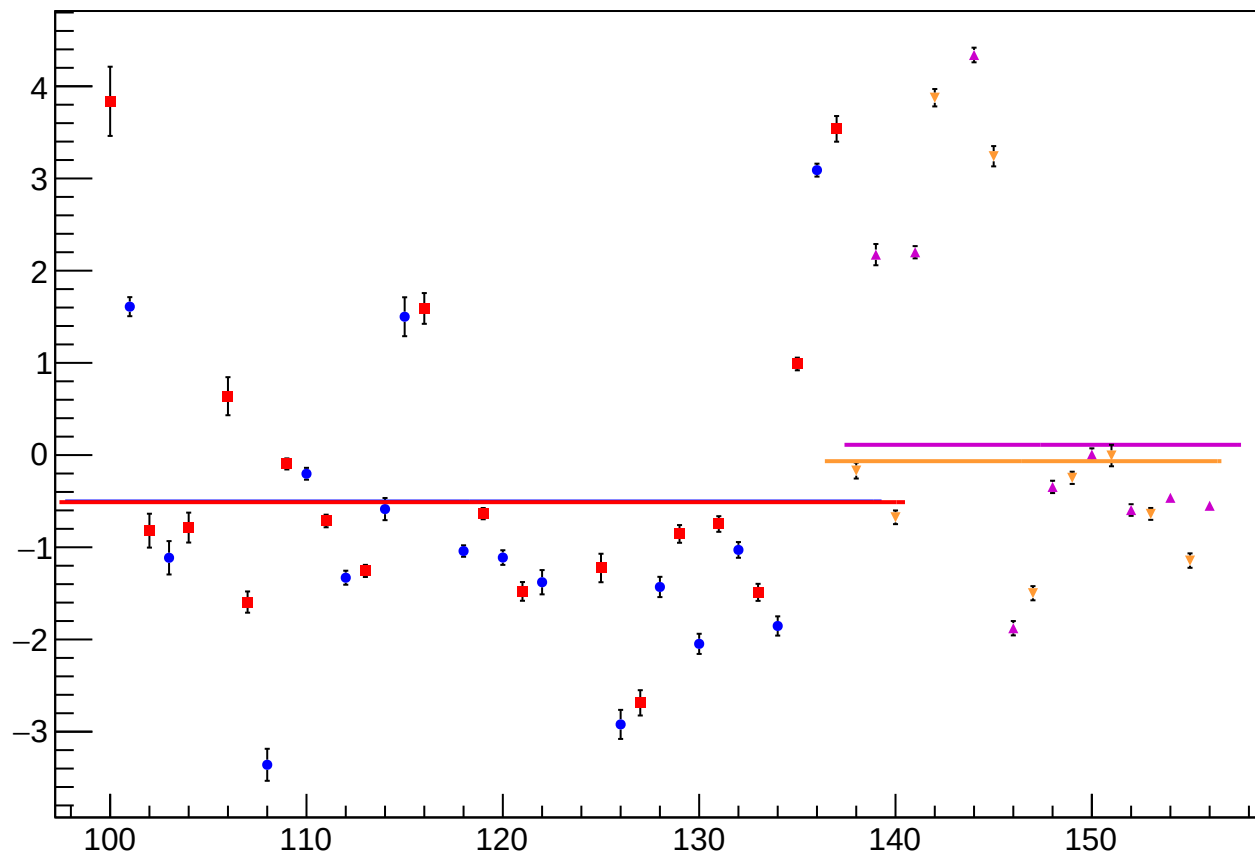
Right: 1.919+/-0.015 χ^2/NDF : 142343.2/33

In: -0.473+/-0.016 χ^2/NDF : 197491.7/24

Out: -0.839+/-0.017 χ^2/NDF : 190419.0/26

All: -0.648+/-0.012 χ^2/NDF : 388153.2/51

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: -0.066 ± 0.027 χ^2/NDF : 3339.0/8

Right Out: -0.511 ± 0.022 χ^2/NDF : 2424.0/17

Left In: 0.111 ± 0.020 χ^2/NDF : 5376.0/8

Left: 0.046 ± 0.016 χ^2/NDF : 8742.7/17

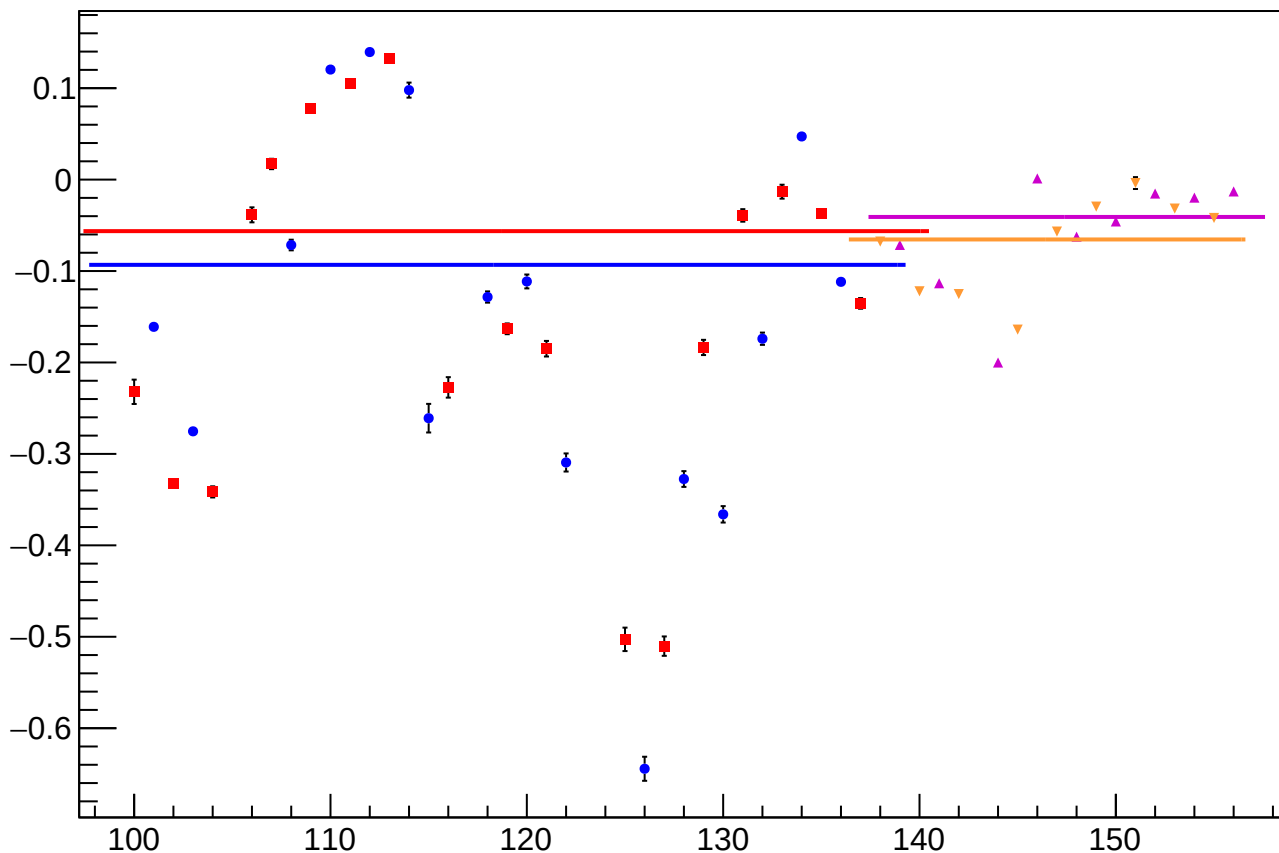
Right: -0.507 ± 0.016 χ^2/NDF : 6871.2/33

In: -0.150 ± 0.015 χ^2/NDF : 10209.7/24

Out: -0.330 ± 0.017 χ^2/NDF : 5925.3/26

All: -0.231 ± 0.011 χ^2/NDF : 16195.3/51

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: -0.065 ± 0.001 χ^2/NDF : 1307.2/8

Right Out: -0.056 ± 0.001 χ^2/NDF : 14457.4/17

Left In: -0.041 ± 0.001 χ^2/NDF : 2731.0/8

Left: -0.049 ± 0.001 χ^2/NDF : 4320.9/17

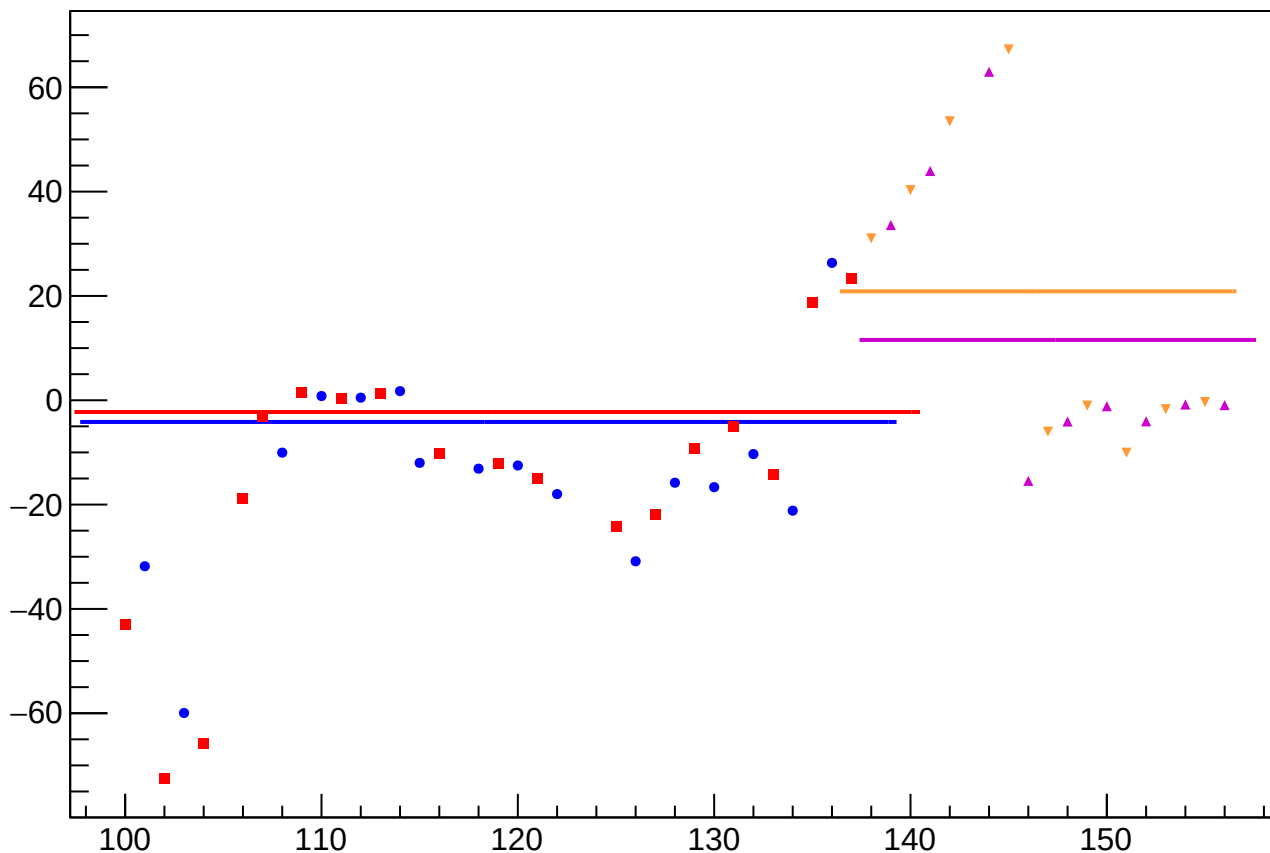
Right: -0.073 ± 0.001 χ^2/NDF : 26566.6/33

In: -0.055 ± 0.001 χ^2/NDF : 15480.1/24

Out: -0.061 ± 0.001 χ^2/NDF : 15791.1/26

All: -0.057 ± 0.001 χ^2/NDF : 31303.8/51

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.159+/-0.054 χ^2/NDF : 75420.4/15

Left Out: 20.881+/-0.092 χ^2/NDF : 68053.9/8

Right Out: -2.251+/-0.046 χ^2/NDF : 79637.5/17

Left In: 11.563+/-0.072 χ^2/NDF : 98147.2/8

Left: 15.092+/-0.057 χ^2/NDF : 172566.5/17

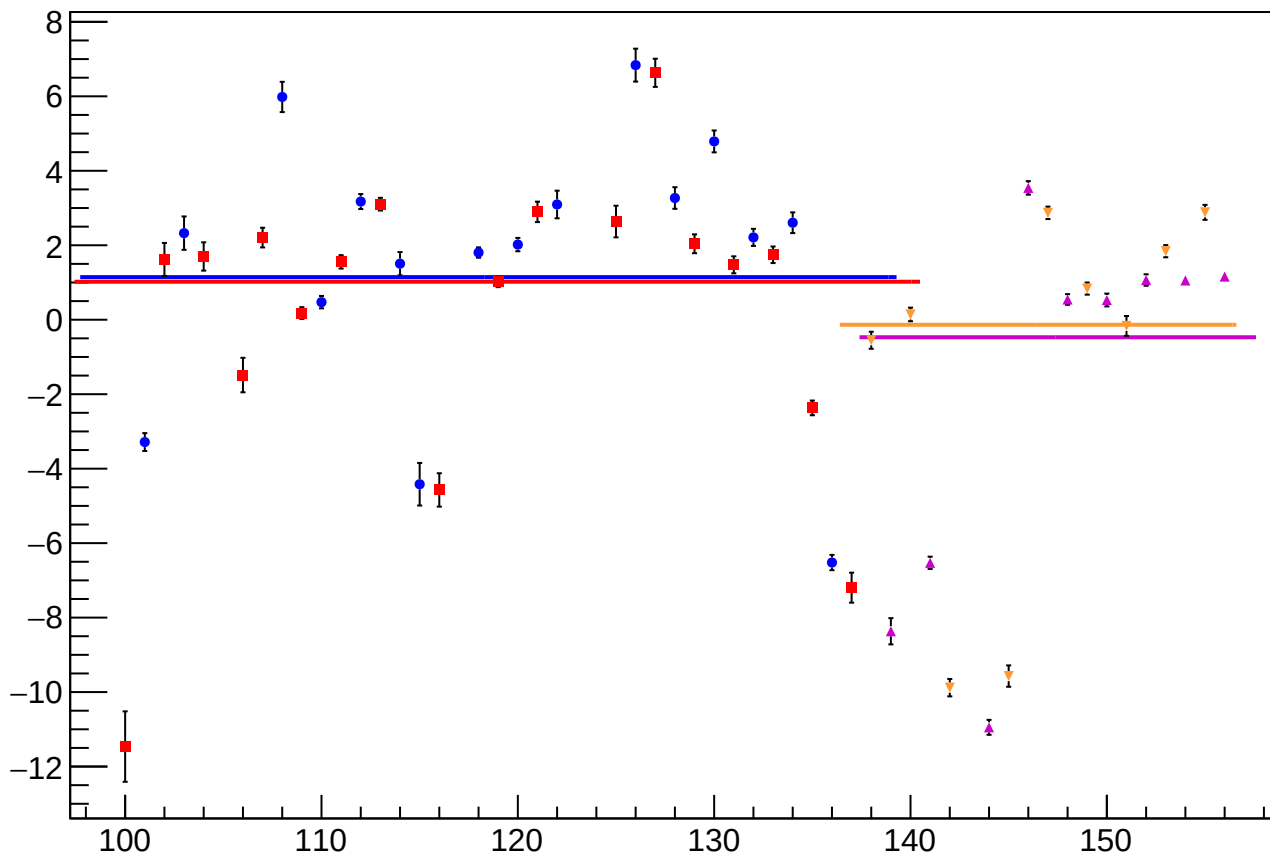
Right: -3.046+/-0.035 χ^2/NDF : 155775.7/33

In: 1.565+/-0.043 χ^2/NDF : 204000.6/24

Out: 2.365+/-0.041 χ^2/NDF : 198233.5/26

All: 1.986+/-0.030 χ^2/NDF : 402413.5/51

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.144 ± 0.060 χ^2/NDF : 2595.3/15

Left Out: -0.135 ± 0.066 χ^2/NDF : 3547.2/8

Right Out: 1.021 ± 0.057 χ^2/NDF : 1591.2/17

Left In: -0.471 ± 0.050 χ^2/NDF : 5673.9/8

Left: -0.349 ± 0.040 χ^2/NDF : 9237.5/17

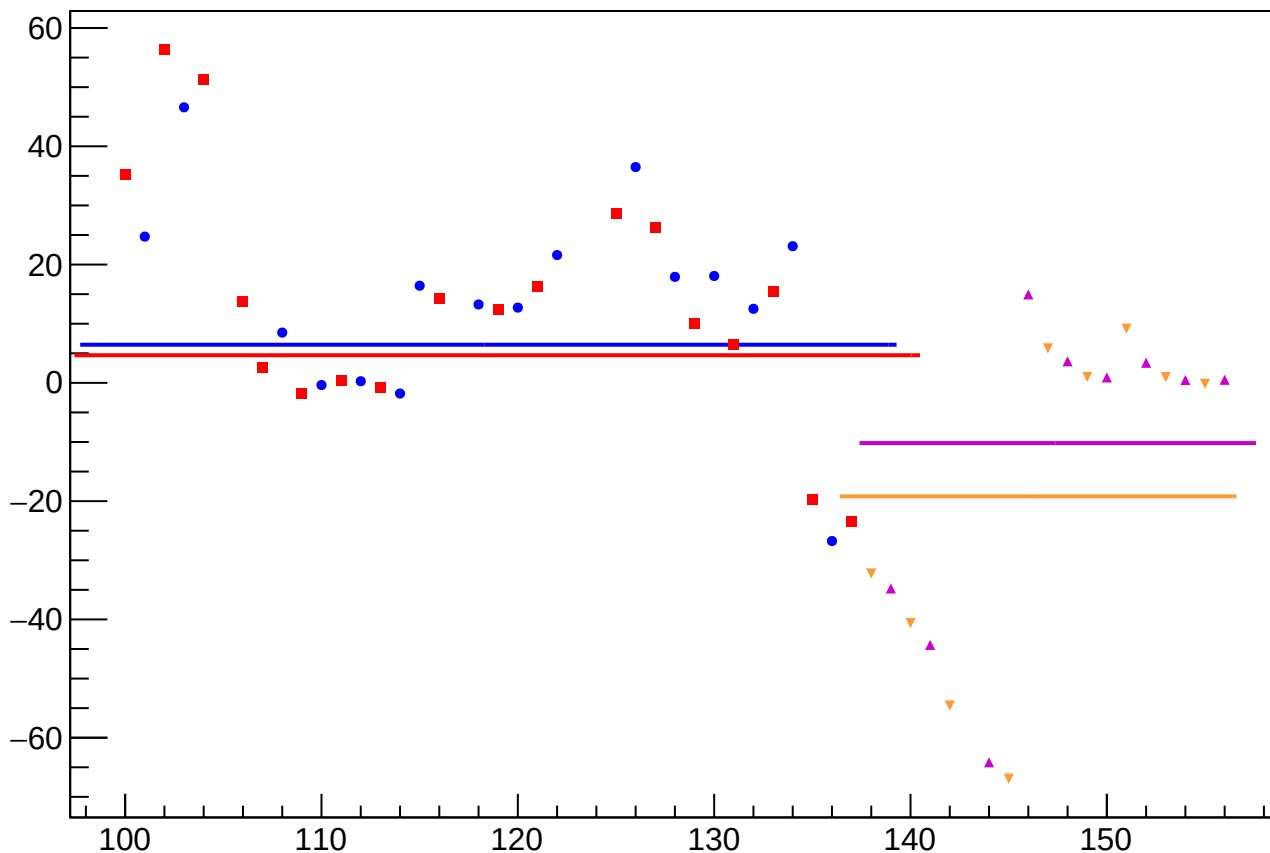
Right: 1.079 ± 0.041 χ^2/NDF : 4188.7/33

In: 0.191 ± 0.038 χ^2/NDF : 8695.2/24

Out: 0.527 ± 0.043 χ^2/NDF : 5313.4/26

All: 0.339 ± 0.029 χ^2/NDF : 14042.4/51

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: -19.194+/-0.090 χ^2/NDF : 70107.9/8

Right Out: 4.671+/-0.059 χ^2/NDF : 74420.3/17

Left In: -10.178+/-0.069 χ^2/NDF : 99360.1/8

Left: -13.491+/-0.055 χ^2/NDF : 175761.0/17

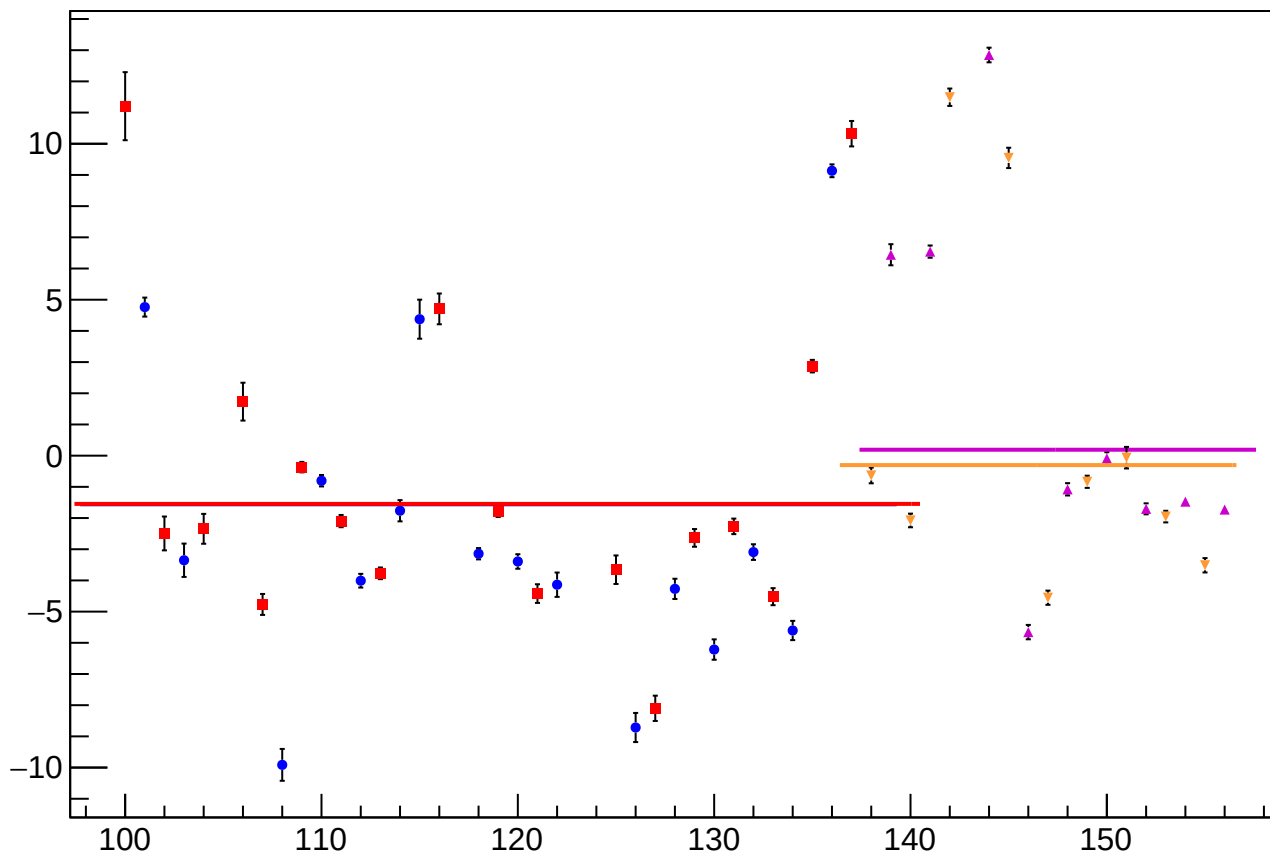
Right: 5.475+/-0.044 χ^2/NDF : 145645.8/33

In: -1.368+/-0.047 χ^2/NDF : 201041.0/24

Out: -2.461+/-0.049 χ^2/NDF : 193406.1/26

All: -1.890+/-0.034 χ^2/NDF : 394702.5/51

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.558 ± 0.069 χ^2/NDF : 4543.1/15

Left Out: -0.302 ± 0.079 χ^2/NDF : 3398.3/8

Right Out: -1.547 ± 0.064 χ^2/NDF : 2470.1/17

Left In: 0.190 ± 0.059 χ^2/NDF : 5522.2/8

Left: 0.014 ± 0.047 χ^2/NDF : 8945.4/17

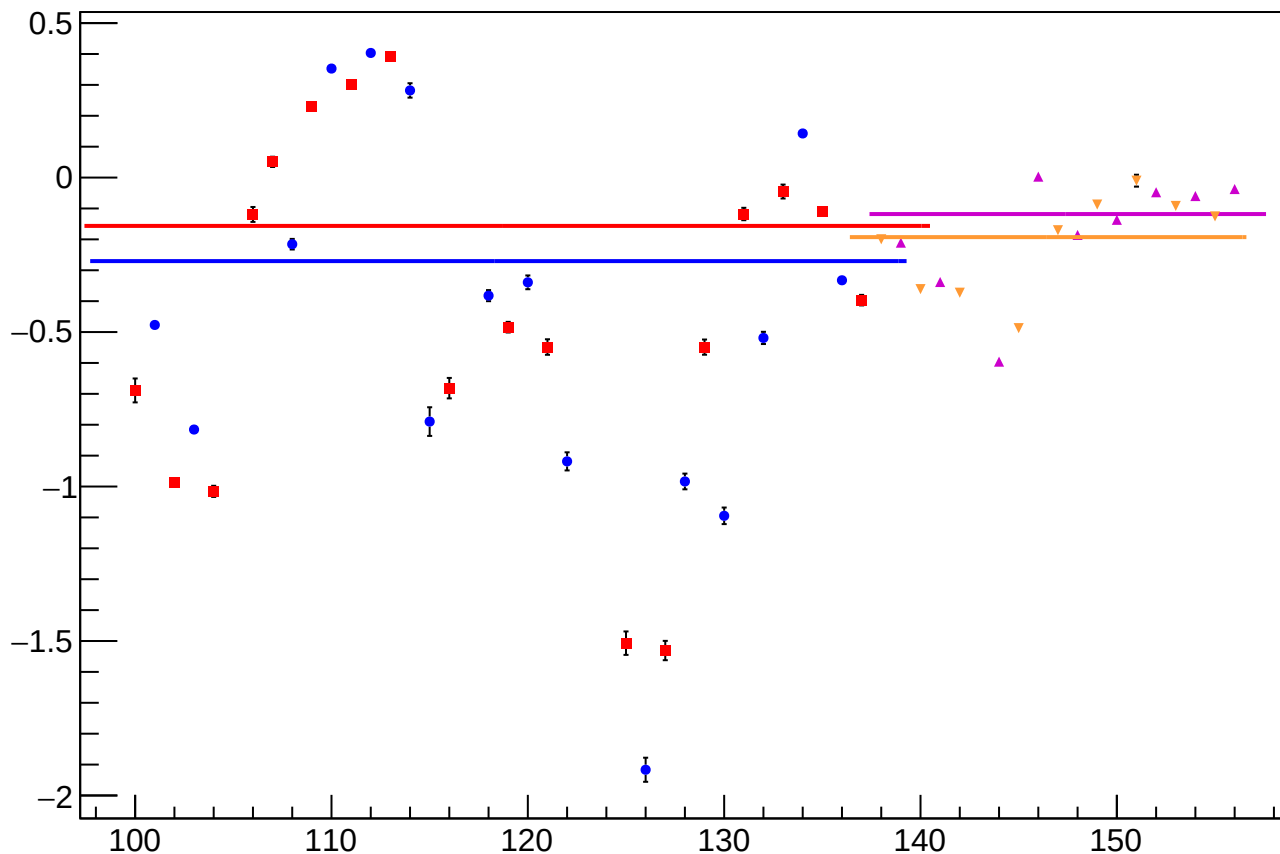
Right: -1.552 ± 0.047 χ^2/NDF : 7013.2/33

In: -0.544 ± 0.045 χ^2/NDF : 10435.2/24

Out: -1.049 ± 0.050 χ^2/NDF : 6017.3/26

All: -0.769 ± 0.033 χ^2/NDF : 16509.0/51

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.270±/0.004 χ^2/NDF : 12096.8/15

Left Out: -0.193±/0.003 χ^2/NDF :1330.1/8

Right Out: -0.156±/0.004 χ^2/NDF : 15030.0/17

Left In: -0.118±/0.002 χ^2/NDF :2814.1/8

Left: -0.143±/0.002 χ^2/NDF : 4450.3/17

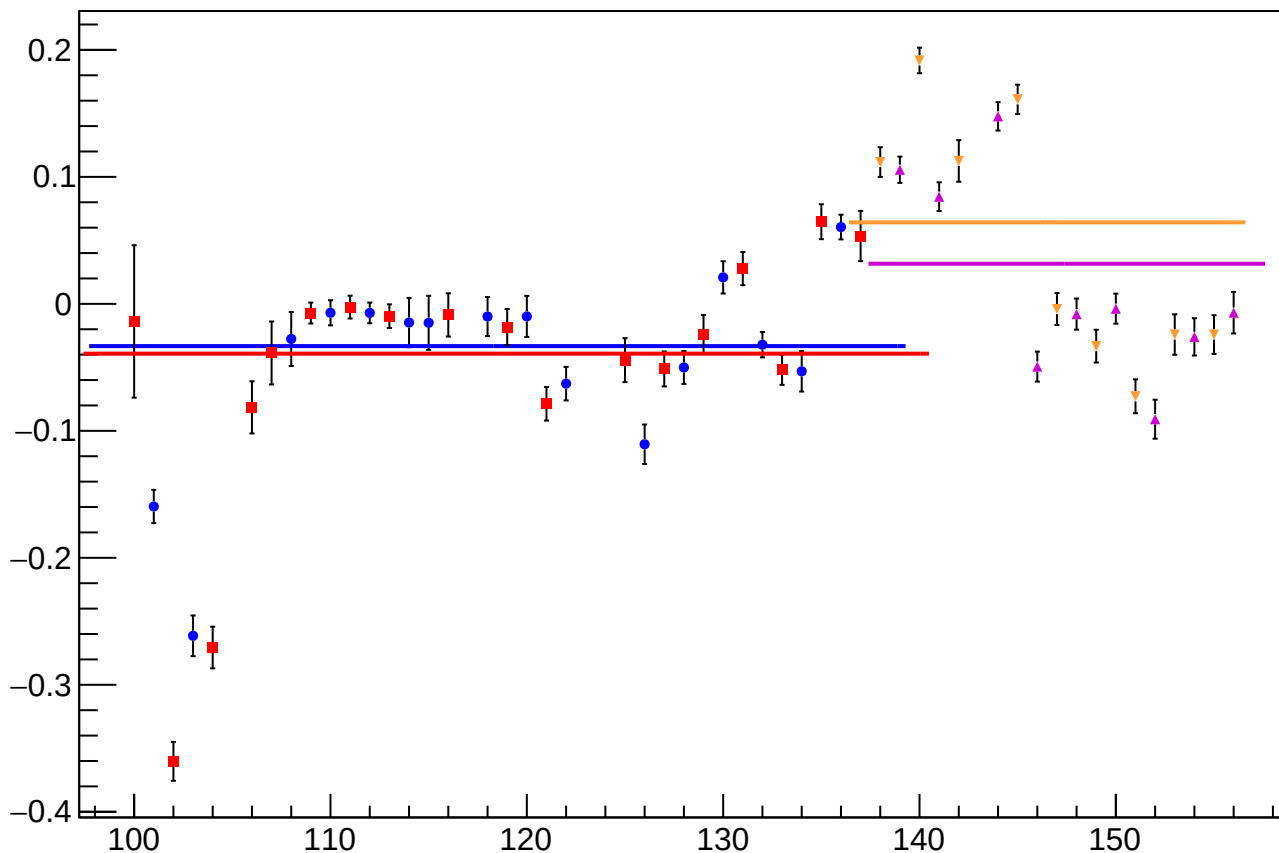
Right: -0.208±/0.003 χ^2/NDF : 27539.3/33

In: -0.158±/0.002 χ^2/NDF :15913.5/24

Out: -0.176±/0.003 χ^2/NDF :16409.7/26

All: -0.165±/0.002 χ^2/NDF : 32353.8/51

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: 0.064 ± 0.004 $\chi^2/\text{NDF}: 512.8/8$

Right Out: -0.039 ± 0.003 $\chi^2/\text{NDF}: 807.6/17$

Left In: 0.032 ± 0.004 $\chi^2/\text{NDF}: 331.8/8$

Left: 0.047 ± 0.003 $\chi^2/\text{NDF}: 874.6/17$

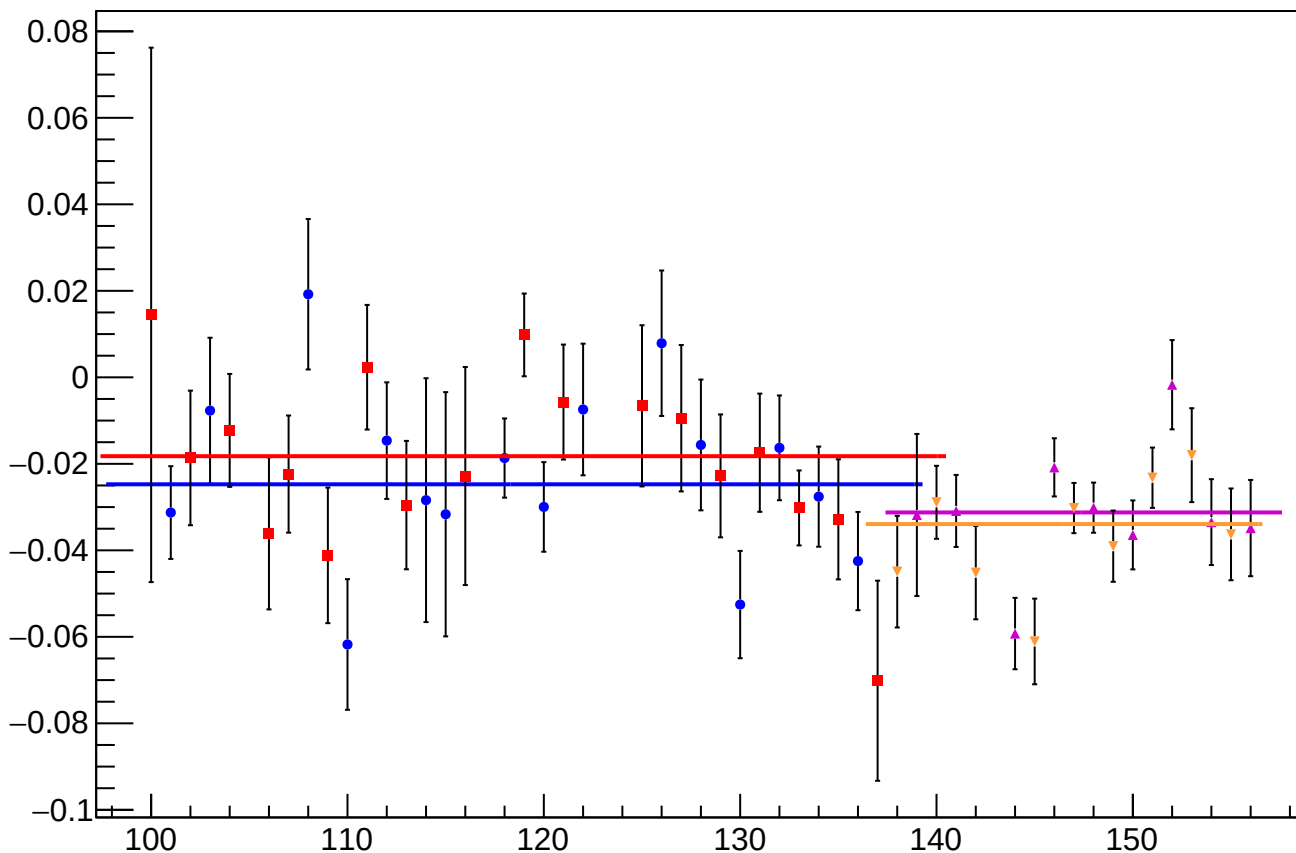
Right: -0.036 ± 0.002 $\chi^2/\text{NDF}: 1272.8/33$

In: -0.009 ± 0.003 $\chi^2/\text{NDF}: 949.2/24$

Out: -0.002 ± 0.003 $\chi^2/\text{NDF}: 1696.5/26$

All: -0.006 ± 0.002 $\chi^2/\text{NDF}: 2648.8/51$

reg_asym_bcm_an_us_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.003 χ^2/NDF : 28.5/15

Left Out: -0.034 ± 0.003 χ^2/NDF : 15.0/8

Right Out: -0.018 ± 0.003 χ^2/NDF : 24.7/17

Left In: -0.031 ± 0.003 χ^2/NDF : 22.7/8

Left: -0.033 ± 0.002 χ^2/NDF : 38.2/17

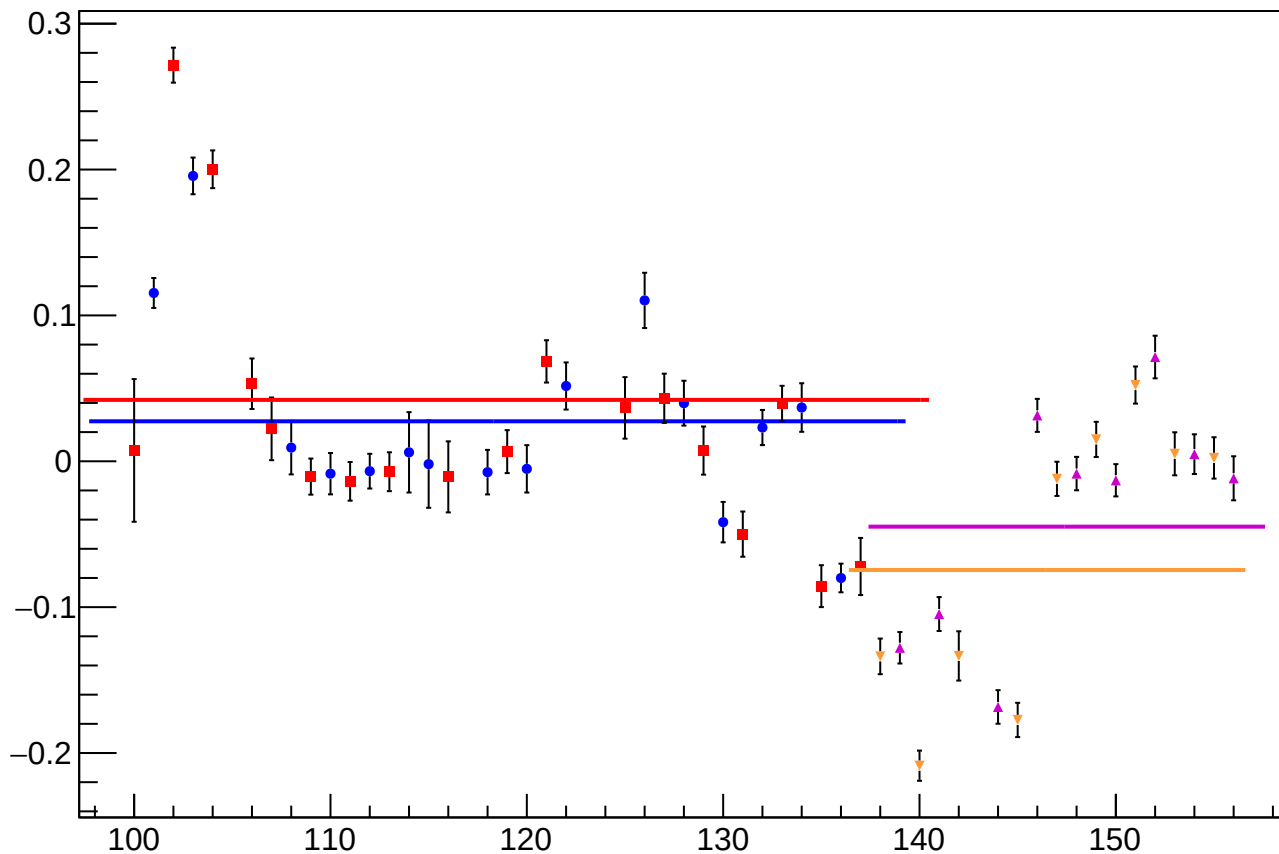
Right: -0.022 ± 0.002 χ^2/NDF : 55.1/33

In: -0.029 ± 0.002 χ^2/NDF : 53.5/24

Out: -0.027 ± 0.002 χ^2/NDF : 52.3/26

All: -0.028 ± 0.002 χ^2/NDF : 105.9/51

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.027 ± 0.004 χ^2/NDF : 446.1/15

Left Out: -0.075 ± 0.004 χ^2/NDF : 521.5/8

Right Out: 0.042 ± 0.004 χ^2/NDF : 733.2/17

Left In: -0.045 ± 0.004 χ^2/NDF : 346.5/8

Left: -0.059 ± 0.003 χ^2/NDF : 894.0/17

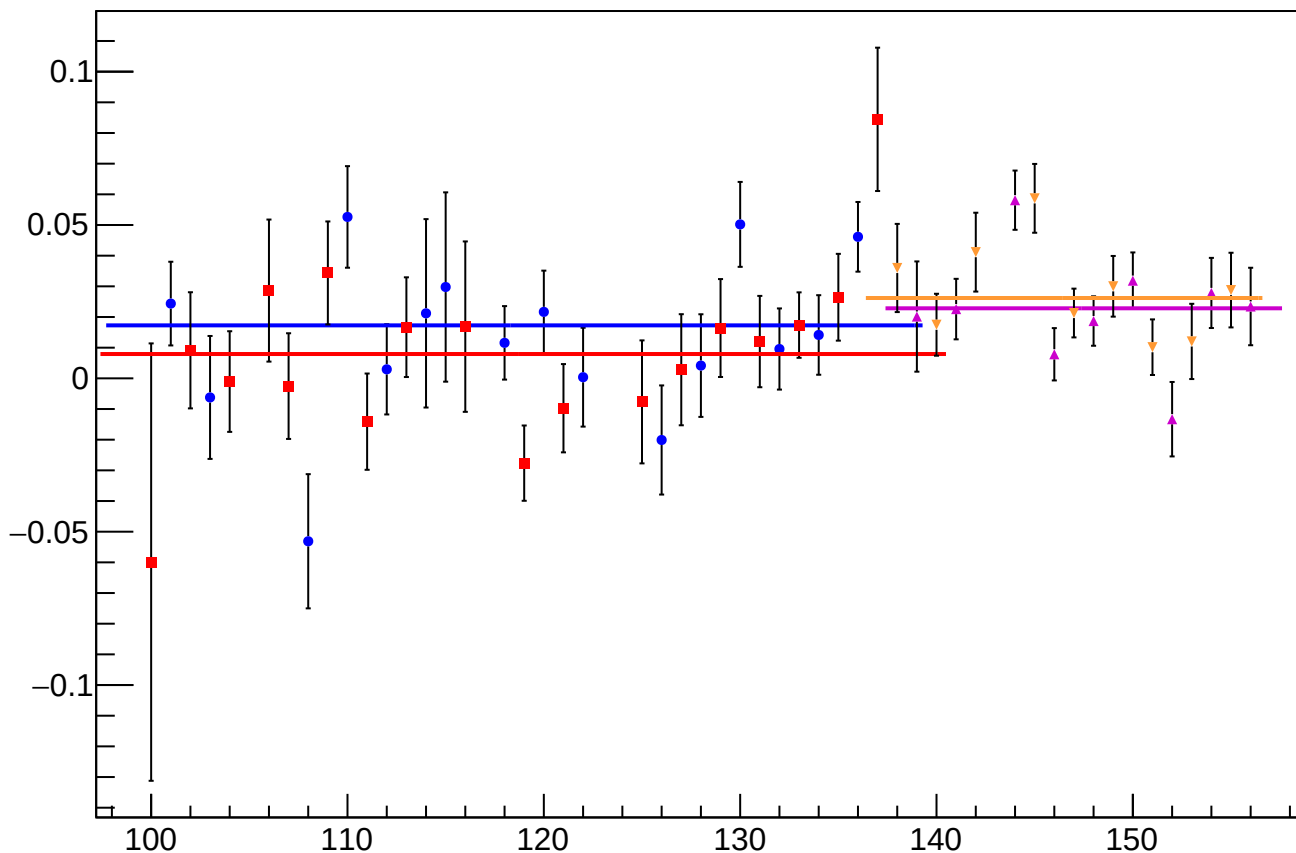
Right: 0.035 ± 0.003 χ^2/NDF : 1187.6/33

In: -0.004 ± 0.003 χ^2/NDF : 972.4/24

Out: -0.008 ± 0.003 χ^2/NDF : 1695.0/26

All: -0.006 ± 0.002 χ^2/NDF : 2668.2/51

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.017 ± 0.004 χ^2/NDF : 36.7/15

Left Out: 0.026 ± 0.004 χ^2/NDF : 16.0/8

Right Out: 0.008 ± 0.004 χ^2/NDF : 31.4/17

Left In: 0.023 ± 0.003 χ^2/NDF : 26.7/8

Left: 0.024 ± 0.002 χ^2/NDF : 43.2/17

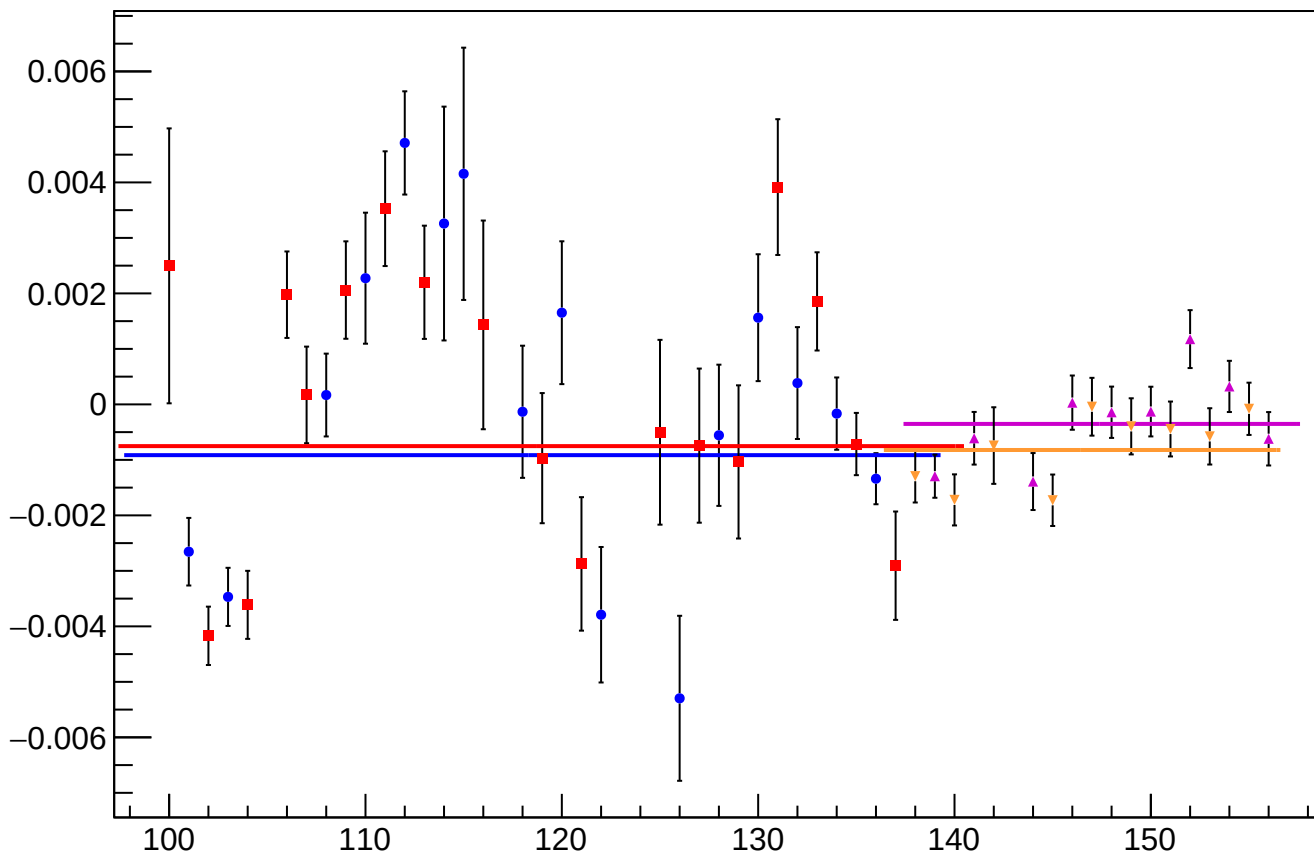
Right: 0.013 ± 0.003 χ^2/NDF : 71.0/33

In: 0.020 ± 0.003 χ^2/NDF : 64.6/24

Out: 0.018 ± 0.003 χ^2/NDF : 59.4/26

All: 0.019 ± 0.002 χ^2/NDF : 124.4/51

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:14.9/8

Right Out: -0.001 $\pm$ 0.000 χ^2 /NDF: 147.6/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:22.4/8

Left: -0.001 $\pm$ 0.000 χ^2 /NDF: 41.5/17

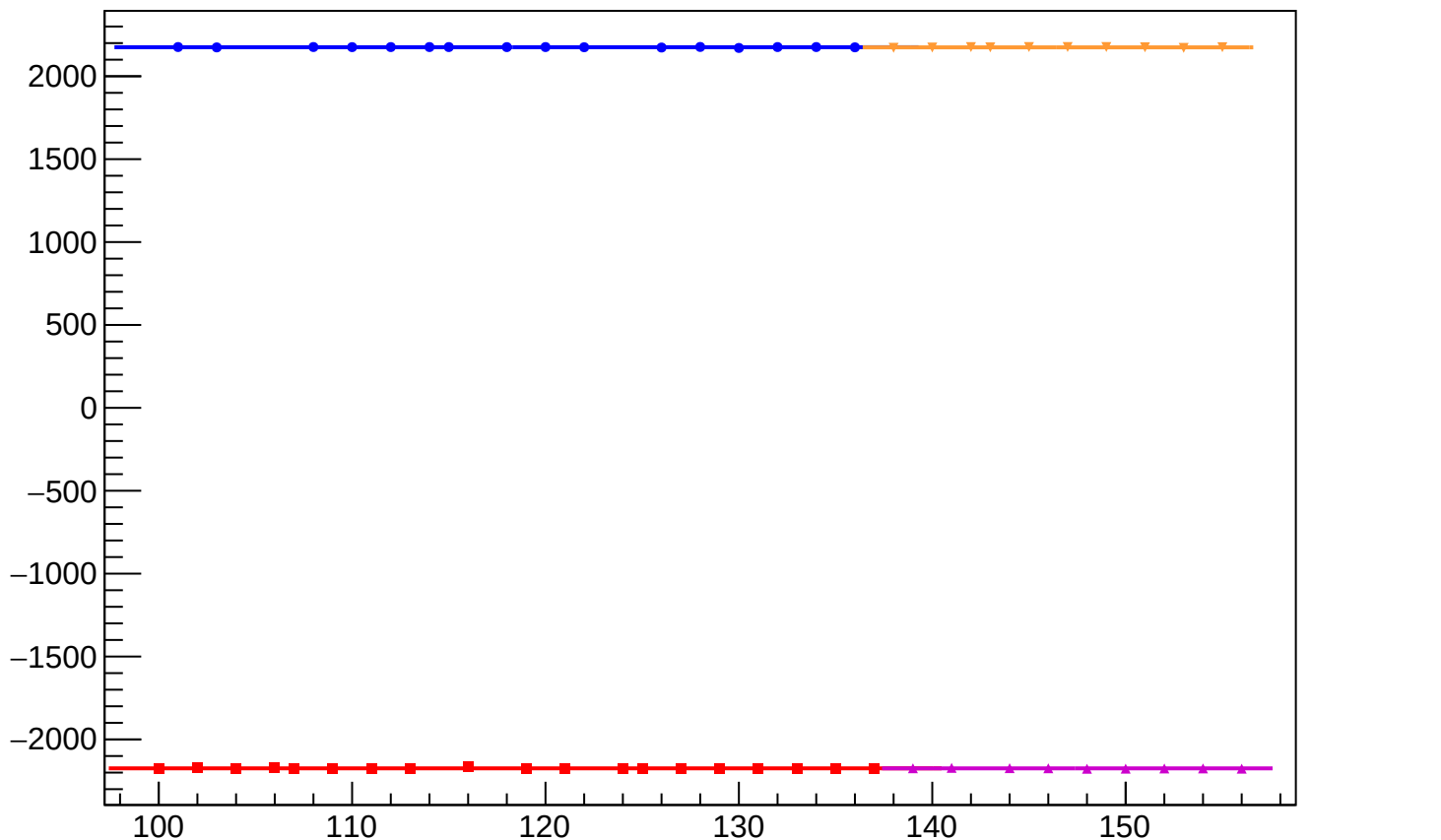
Right: -0.001 $\pm$ 0.000 χ^2 /NDF: 261.9/33

In: -0.001 $\pm$ 0.000 χ^2 /NDF:141.0/24

Out: -0.001 $\pm$ 0.000 χ^2 /NDF:162.5/26

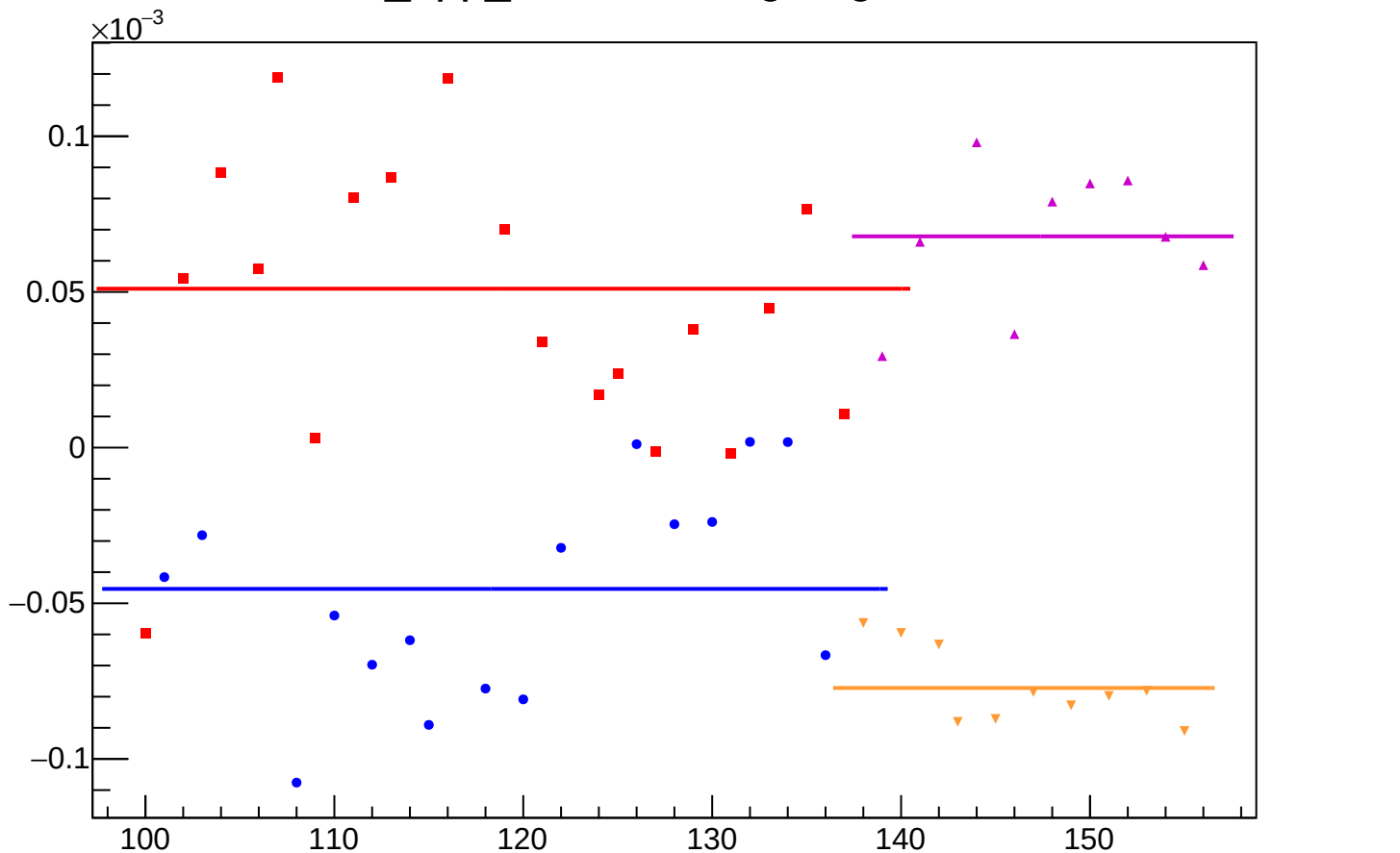
All: -0.001 $\pm$ 0.000 χ^2 /NDF: 305.4/51

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2175.201 $\pm$ 0.000 χ^2/NDF : 1765724072923660180937051331362816.0/15
 Left Out: 2174.320 $\pm$ 0.000 χ^2/NDF : 2677242030516849373433051345846272.0/9
 Right Out: -2174.324 $\pm$ 0.000 χ^2/NDF : 5542239415681046928723527201718272.0/18
 Left In: -2174.511 $\pm$ 0.000 χ^2/NDF : 2191350115545403085523391459885056.0/8
 All: -9.549 $\pm$ 0.000 χ^2/NDF : 1482921639096

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 : 90689044310055832

Right: 0.000 ± 0.000

χ^2/NDF : 52193568733401849

Left Out: -0.000 ± 0.000

χ^2/NDF : 109474324078768164962304.0/9

In: 0.000 ± 0.000

χ^2/NDF : 6056001441328388999

Right Out: 0.000 ± 0.000

χ^2/NDF : 1011955910720647101153280.0/18

Out: -0.000 ± 0.000

χ^2/NDF : 76205214130320219

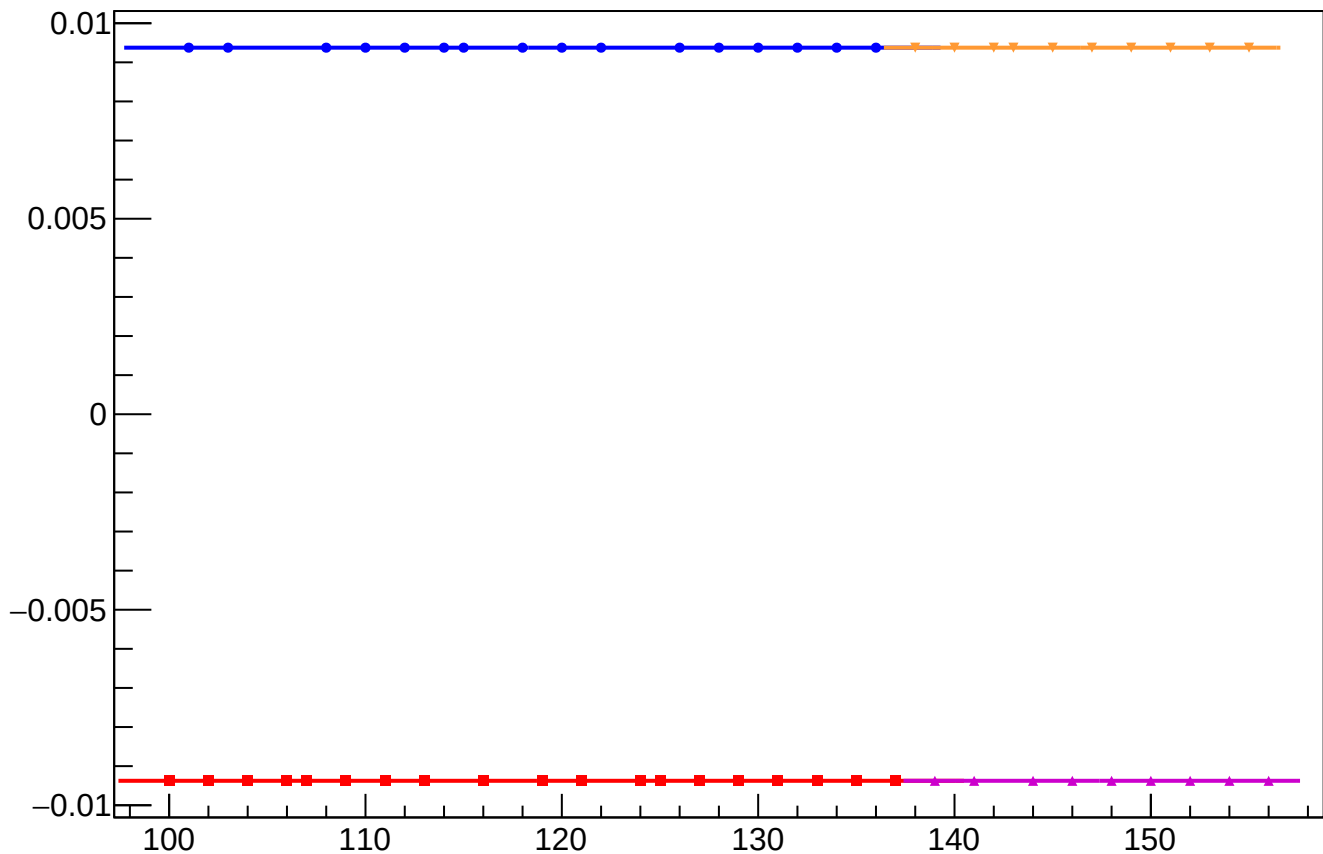
Left In: 0.000 ± 0.000

χ^2/NDF : 375619033705470377328640.0/8

All: -0.000 ± 0.000

χ^2/NDF : 1434564506875

MQ171LM_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 : 0.0/9

Right Out: -0.009 $\pm$ 0.000 χ^2/NDF : 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2/NDF : 0.0/8

Left: 0.000 $\pm$ 0.000 χ^2/NDF : 14343405330882298

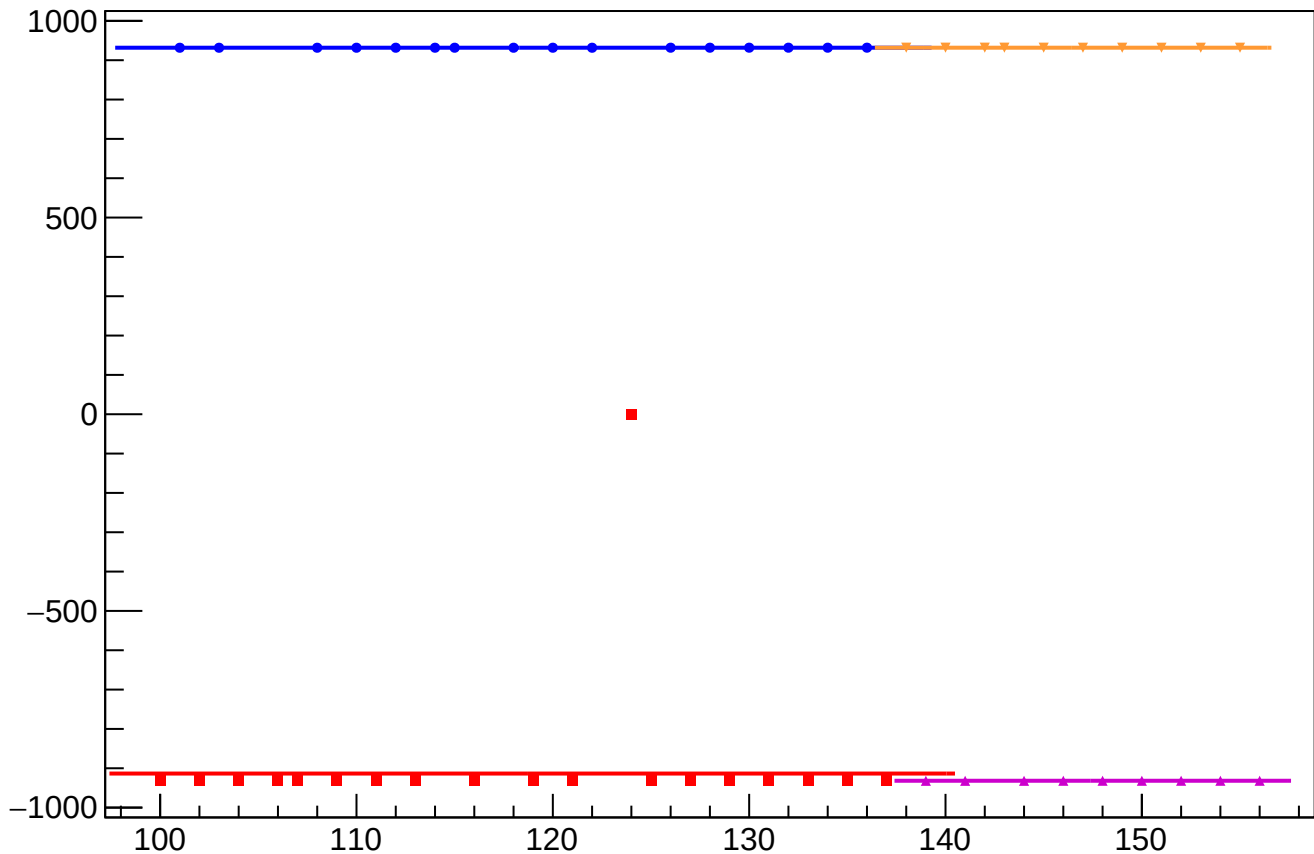
Right: -0.000 $\pm$ 0.000 χ^2/NDF : 1321592160488695

In: -0.000 $\pm$ 0.000 χ^2/NDF : 136208849806825152

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 138950469835754614

All: -0.000 $\pm$ 0.000 χ^2/NDF : 2756195068359

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 931.769+/-0.000

χ^2/NDF : 2757217223595001187167685836800.0/15

Left Out: 931.797+/-0.000

χ^2/NDF : 3541622636281041668630105817088.0/9

Right Out: -913.447+/-0.000

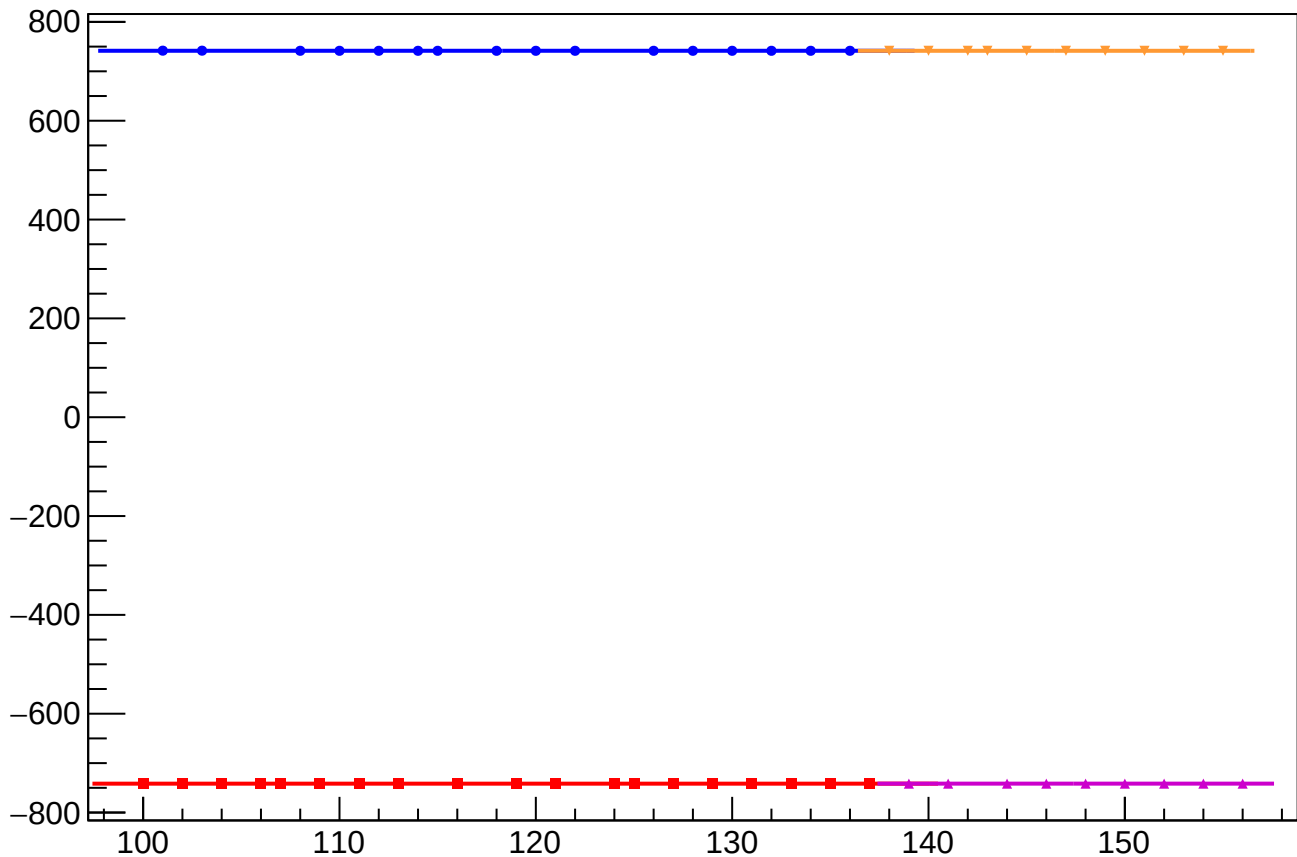
χ^2/NDF : 12765879635094435683491886518824337408.0/18

Left In: -931.782+/-0.000

χ^2/NDF : 3222472919620012067018269261824.0/8

Left: 4.575+/-0.000 χ^2/NDF : 141692075191450765.0/15
 Right: -4.335+/-0.000 χ^2/NDF : 1292705120140630.0/15
 In: -42.606+/-0.000 χ^2/NDF : 13455056842879233.0/15
 Out: 42.396+/-0.000 χ^2/NDF : 13585181714610313.0/15
 All: 0.302+/-0.000 χ^2/NDF : 27096880022427.0/15

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 741.569+/-0.000 χ^2/NDF : 6432951176127947061938899386368.0/15

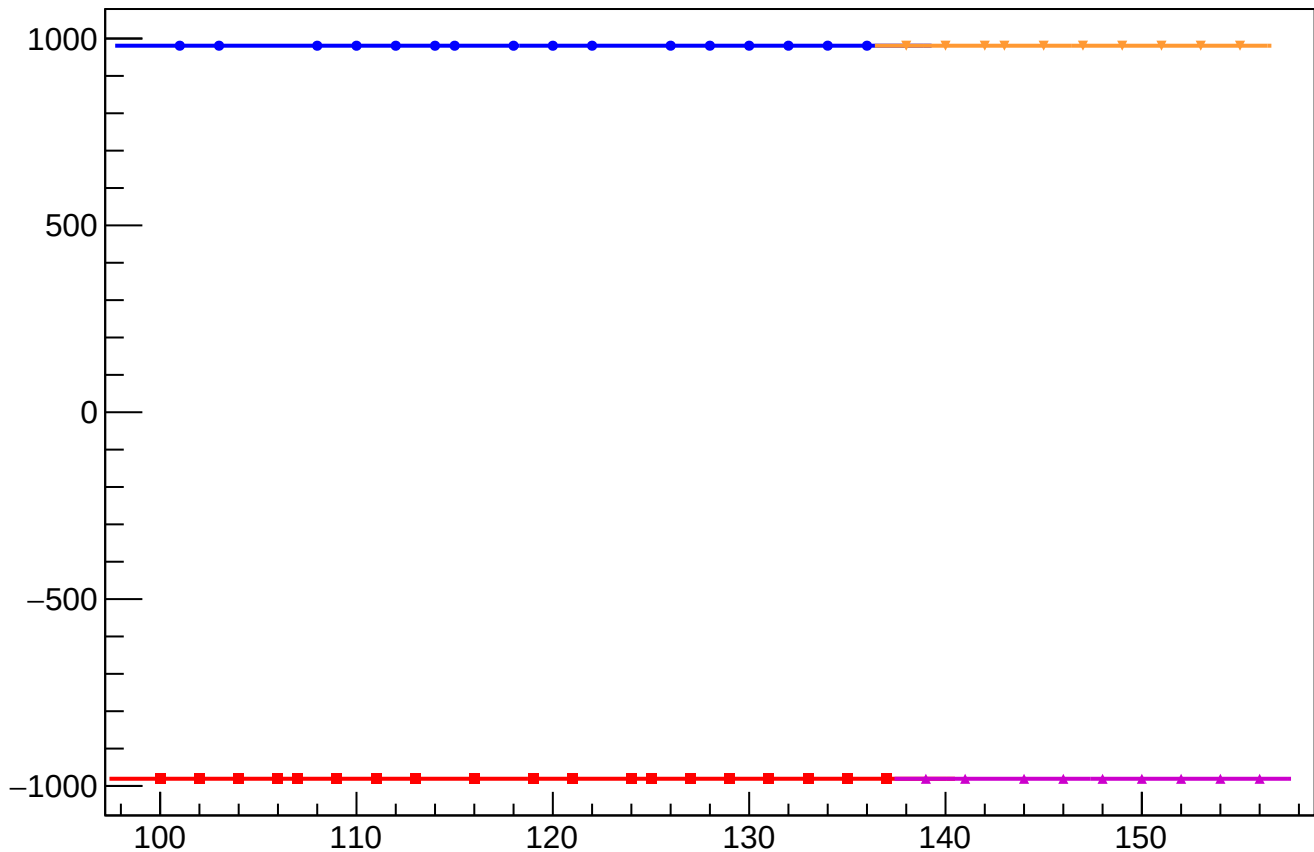
Left Out: 741.521+/-0.000 χ^2/NDF : 87501521845665151274966843392.0/9

Right Out: -741.577+/-0.000 χ^2/NDF : 7692263947892614711537477615616.0/18

Left In: -741.520+/-0.000 χ^2/NDF : 90412516566295768758908616704.0/8

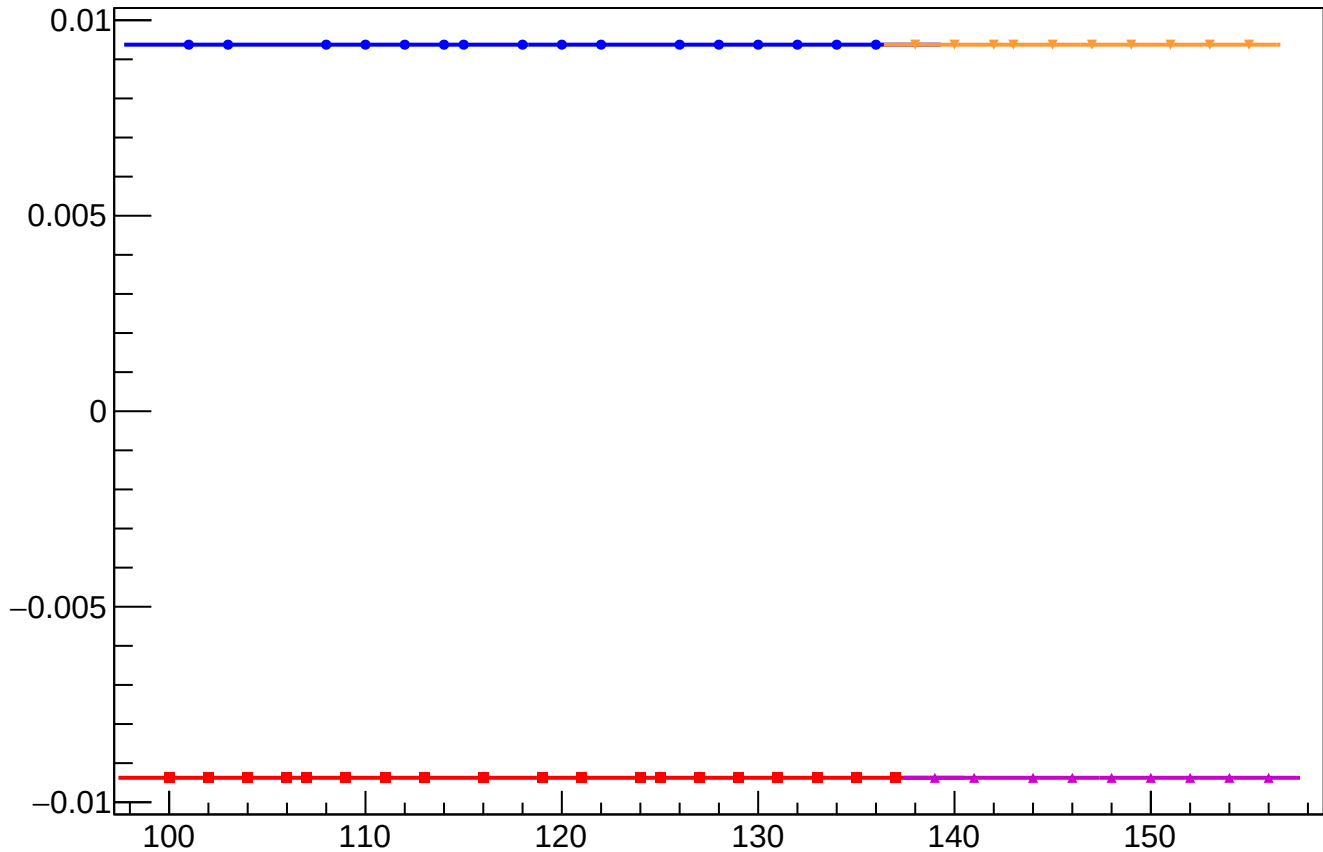
All: -3.312+/-0.000 χ^2/NDF : 1724419381812

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 980.804+/-0.000	χ^2/NDF : 933313276884807786774245933056.0/15	Left: 4.802+/-0.000	χ^2/NDF : 156984368578787391
Left Out: 980.778+/-0.000	χ^2/NDF : 548096649537106919841358413824.0/9	Right: -14.307+/-0.000	χ^2/NDF : 144638600880856
Right Out: -980.725+/-0.000	χ^2/NDF : 56040205617358336221662876270592.0/18	In: -44.833+/-0.000	χ^2/NDF : 14908056102606213
Left In: -980.790+/-0.000	χ^2/NDF : 1022991972547813062252672581632.0/8	Out: 35.341+/-0.000	χ^2/NDF : 15206708574667504
	All: -4.363+/-0.000	χ^2/NDF : 3016515477789	

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 : 0.0/9

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left: 0.000+/-0.000 χ^2/NDF : 14343405330882298

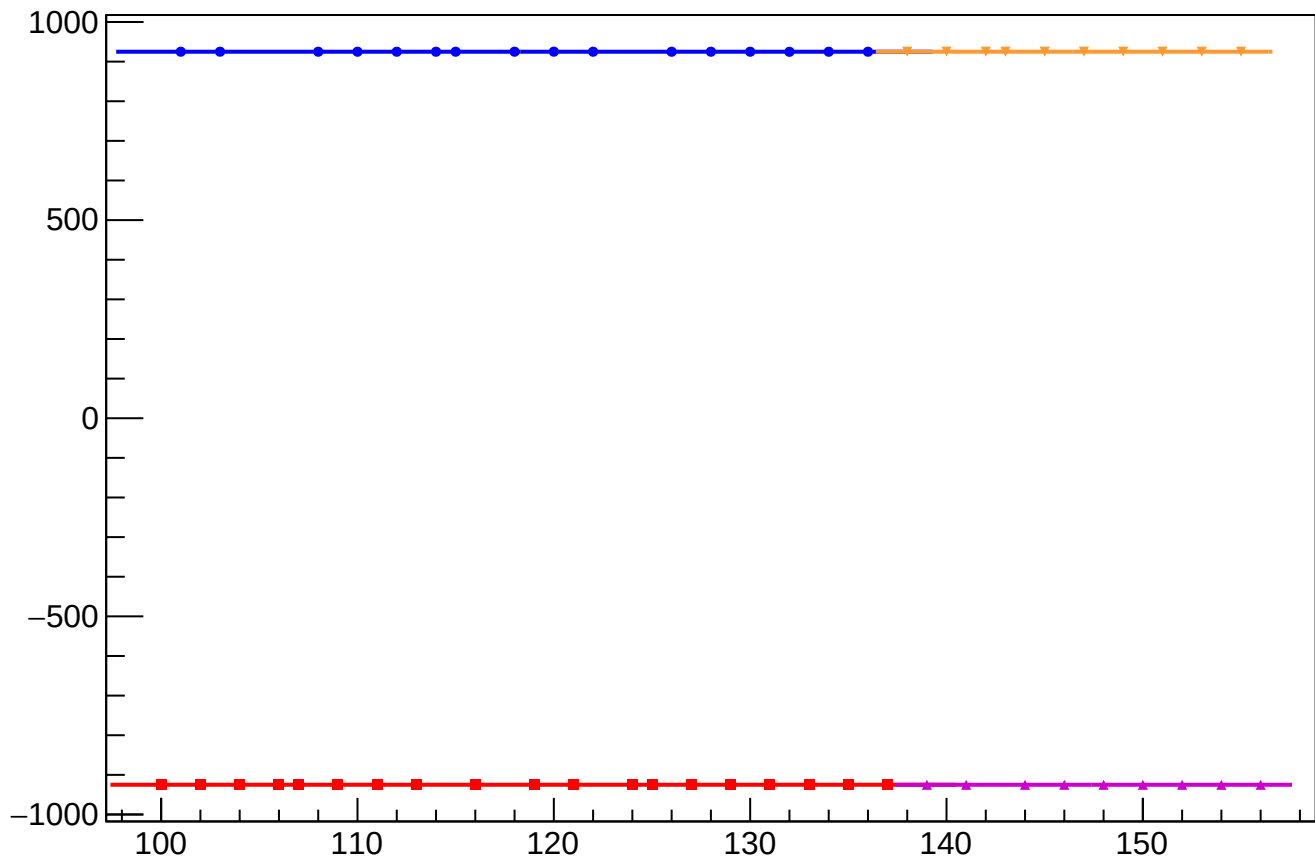
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.000+/-0.000 χ^2/NDF : 136208849806825152

Out: 0.000+/-0.000 χ^2/NDF : 138950469835754614

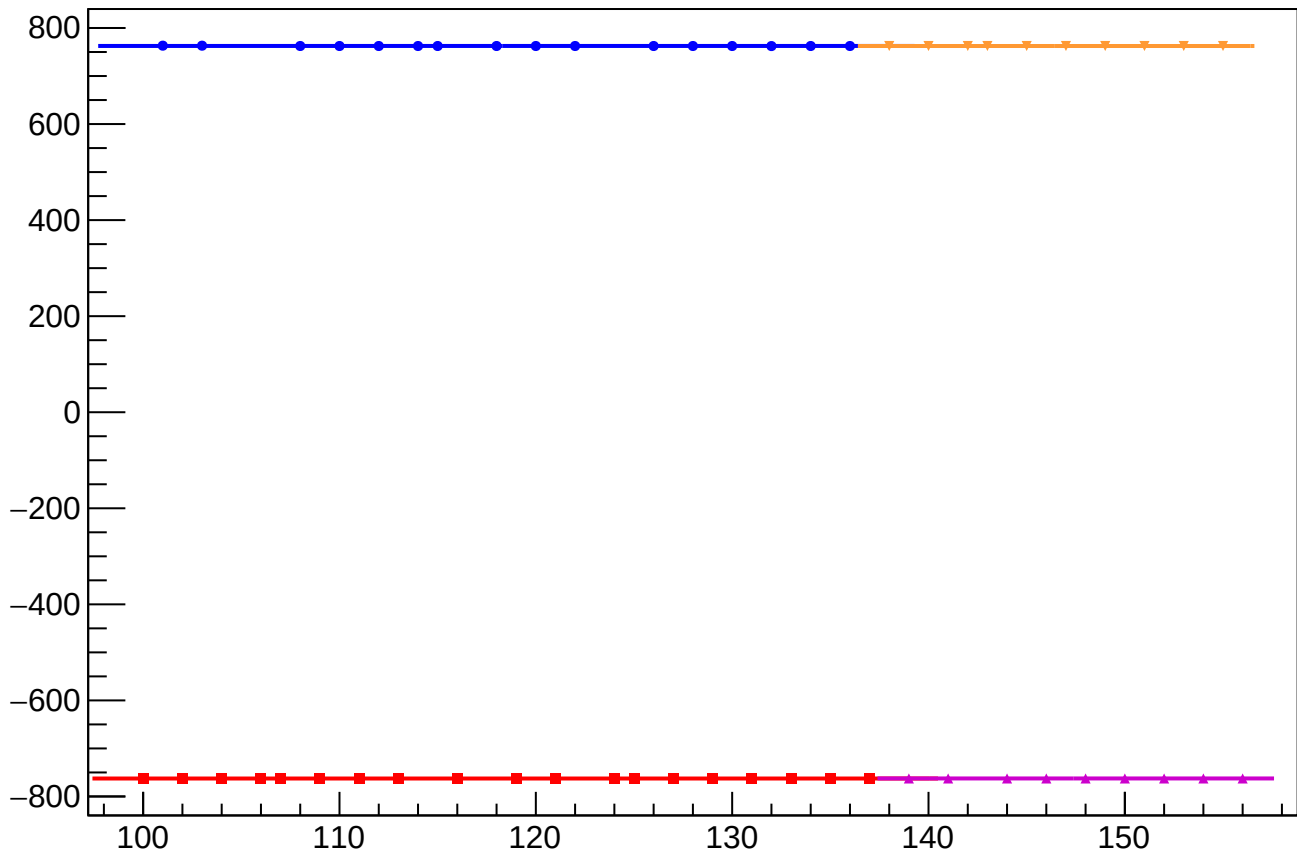
All: -0.000+/-0.000 χ^2/NDF : 2756195068359

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



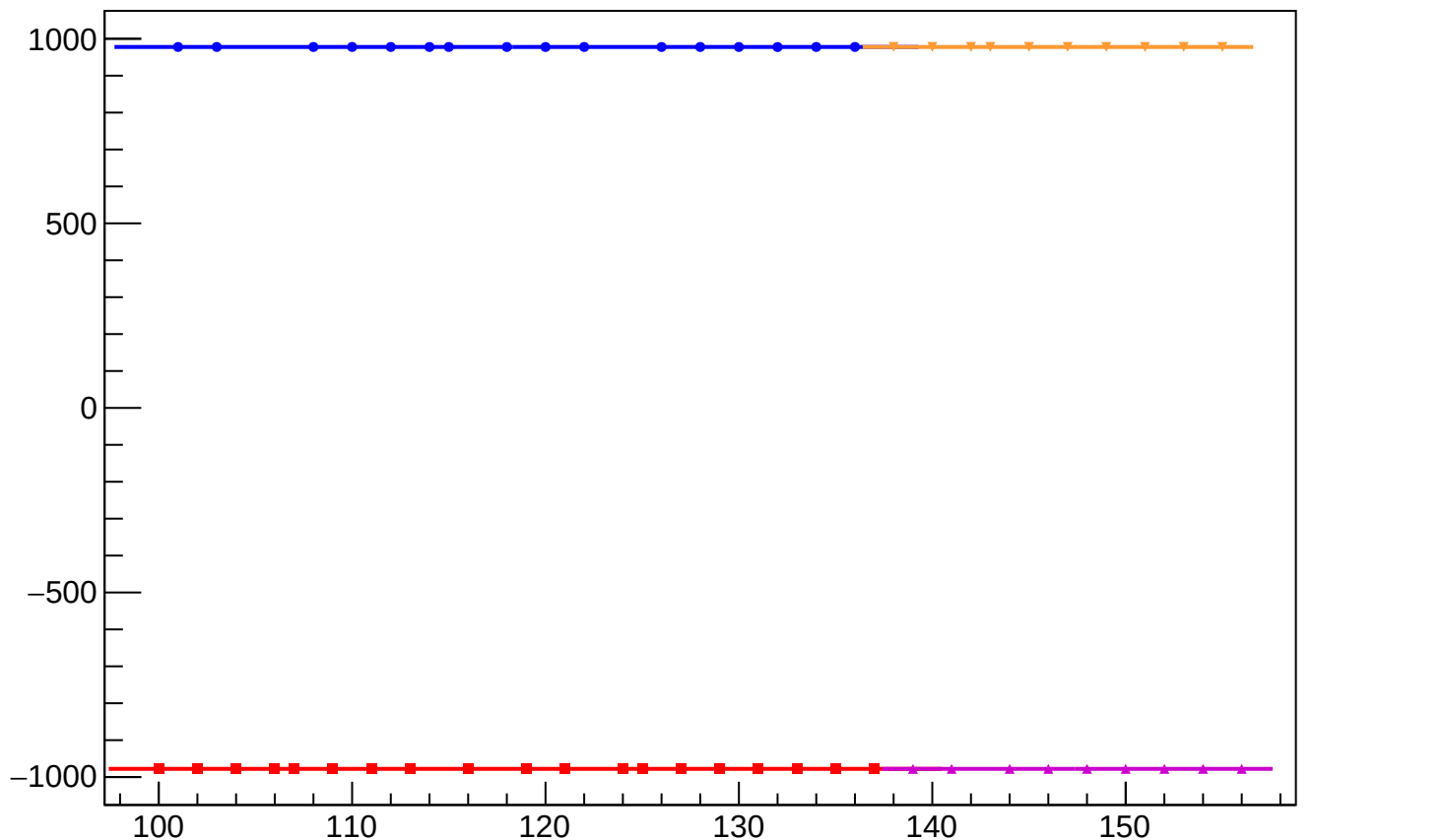
Right In: 924.966+/-0.000	χ^2/NDF : 2544370508087658800533037121536.0/15	Left: 4.535+/-0.000	χ^2/NDF : 139634238420048373
Left Out: 924.999+/-0.000	χ^2/NDF : 448708115248811217804509315072.0/9	Right: -13.534+/-0.000	χ^2/NDF : 128650155911450
Right Out: -924.974+/-0.000	χ^2/NDF : 1241981521116890900236351832064.0/18	In: -42.304+/-0.000	χ^2/NDF : 13259575311794051
Left In: -924.998+/-0.000	χ^2/NDF : 392099258453519661656310808576.0/8	Out: 33.319+/-0.000	χ^2/NDF : 13526587413762647
		All: -4.131+/-0.000	χ^2/NDF : 2683099474065

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



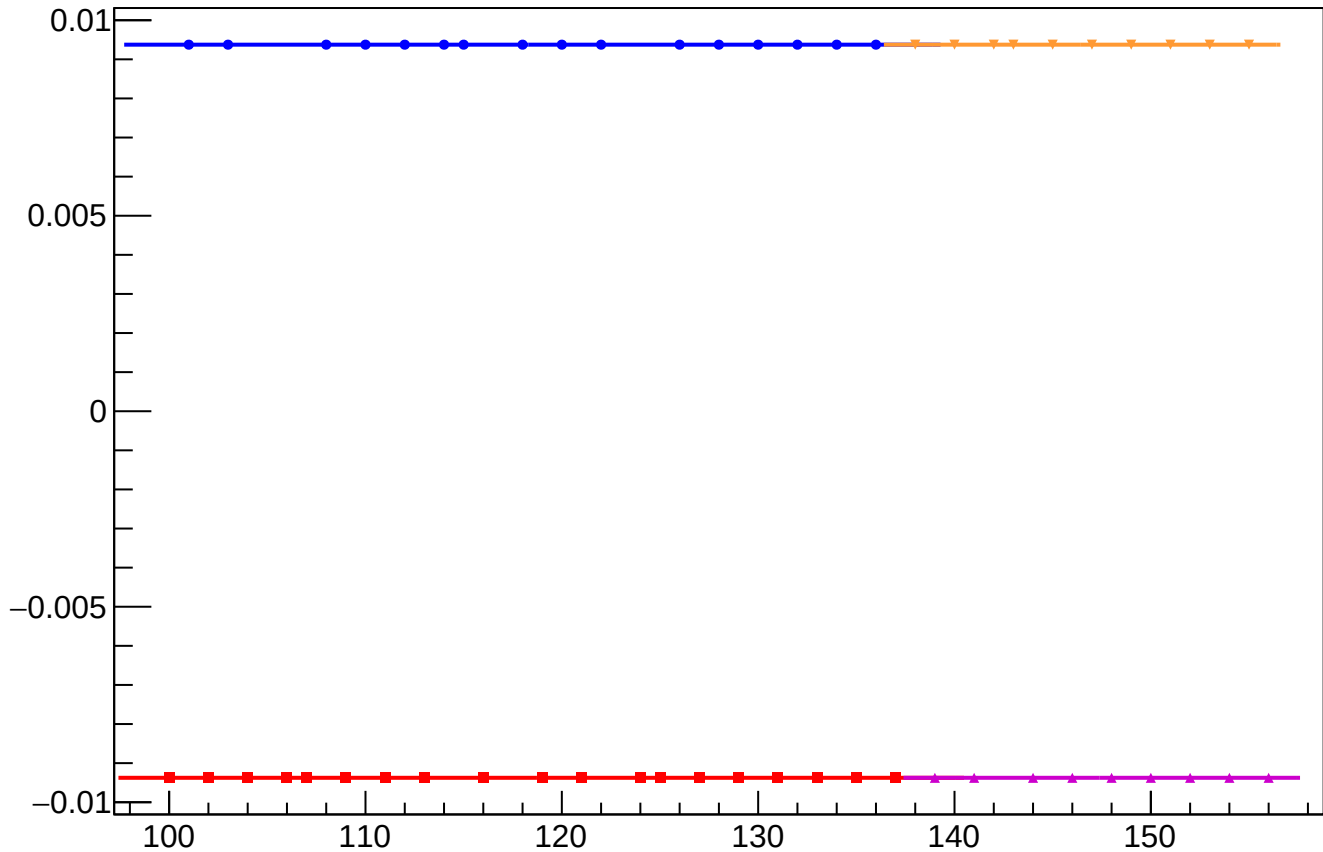
Right In: 762.611+/-0.000	χ^2/NDF : 52161453489138778834460408283136.0/15	Left: 3.737+/-0.000	χ^2/NDF : 948831298942593607
Left Out: 762.499+/-0.000	χ^2/NDF : 79330334903895749063327350784.0/9	Right: -11.159+/-0.000	χ^2/NDF : 874510274639263
Right Out: -762.618+/-0.000	χ^2/NDF : 53134338532630395841297843748864.0/18	In: -34.808+/-0.000	χ^2/NDF : 90116838772762491
Left In: -762.501+/-0.000	χ^2/NDF : 63861065790820596487372668928.0/8	Out: 27.398+/-0.000	χ^2/NDF : 91931340526836582
		All: -3.407+/-0.000	χ^2/NDF : 1823515236765

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.749+/-0.000	χ^2/NDF : 1959578331072316074448224518144.0/15	Left: 4.796+/-0.000	χ^2/NDF : 156014303926958423
Left Out: 977.752+/-0.000	χ^2/NDF : 835311863134114512579464265728.0/9	Right: -14.301+/-0.000	χ^2/NDF : 143750377983115
Right Out: -977.747+/-0.000	χ^2/NDF : 1782226877816914726327966236672.0/18	In: -44.699+/-0.000	χ^2/NDF : 14815499046599289
Left In: -977.746+/-0.000	χ^2/NDF : 881984065873807220890027425792.0/8	Out: 35.209+/-0.000	χ^2/NDF : 15113767891347289
	All: -4.363+/-0.000		χ^2/NDF : 2997932265379

hesDipole_current_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 : 0.0/9

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left: 0.000+/-0.000 χ^2/NDF : 14343405330882298

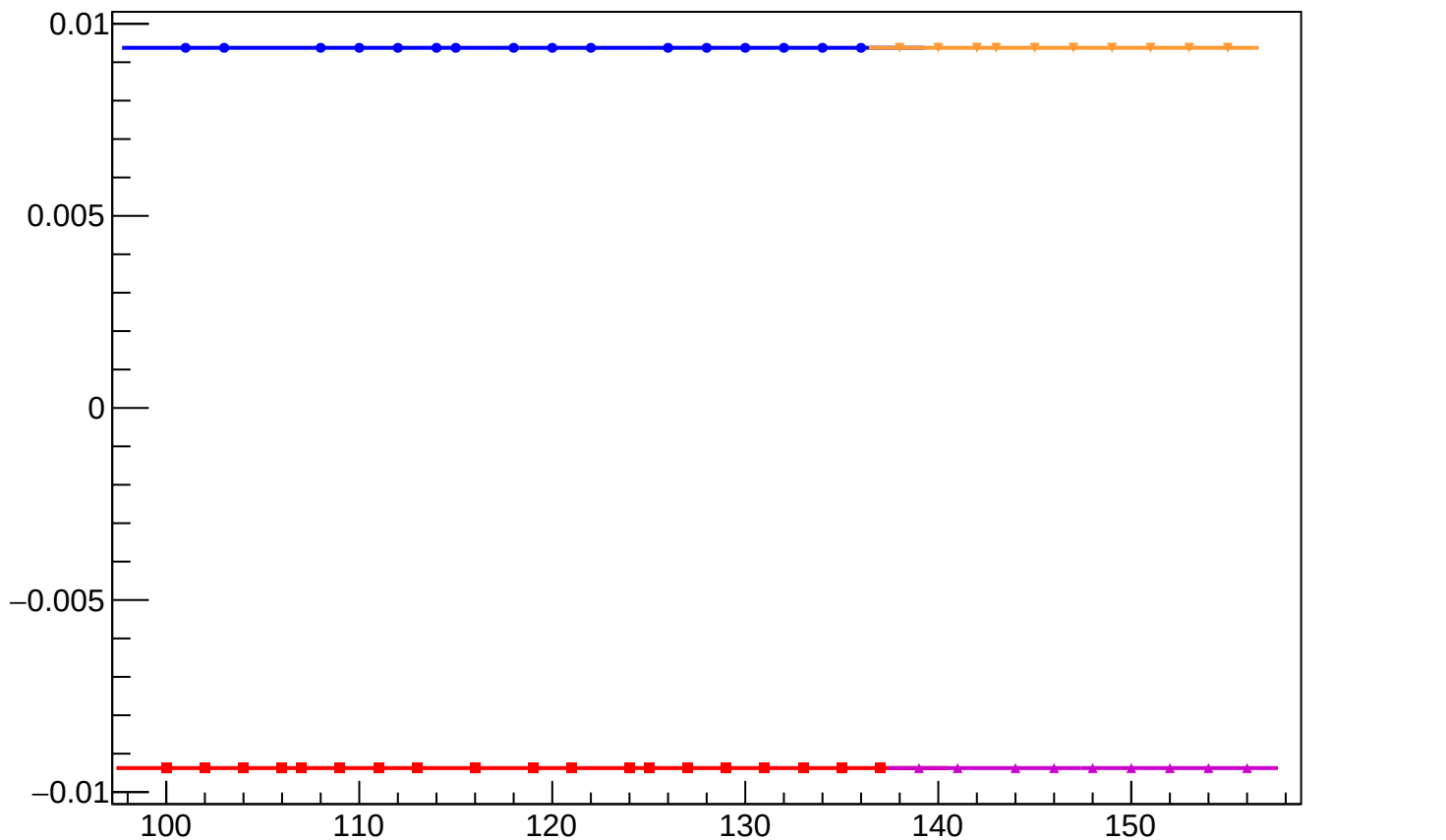
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.000+/-0.000 χ^2/NDF : 136208849806825152

Out: 0.000+/-0.000 χ^2/NDF : 138950469835754614

All: -0.000+/-0.000 χ^2/NDF : 2756195068359

MSUPERBIGBITereadcalc_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 : 0.0/9

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left: 0.000+/-0.000 χ^2/NDF : 14343405330882298

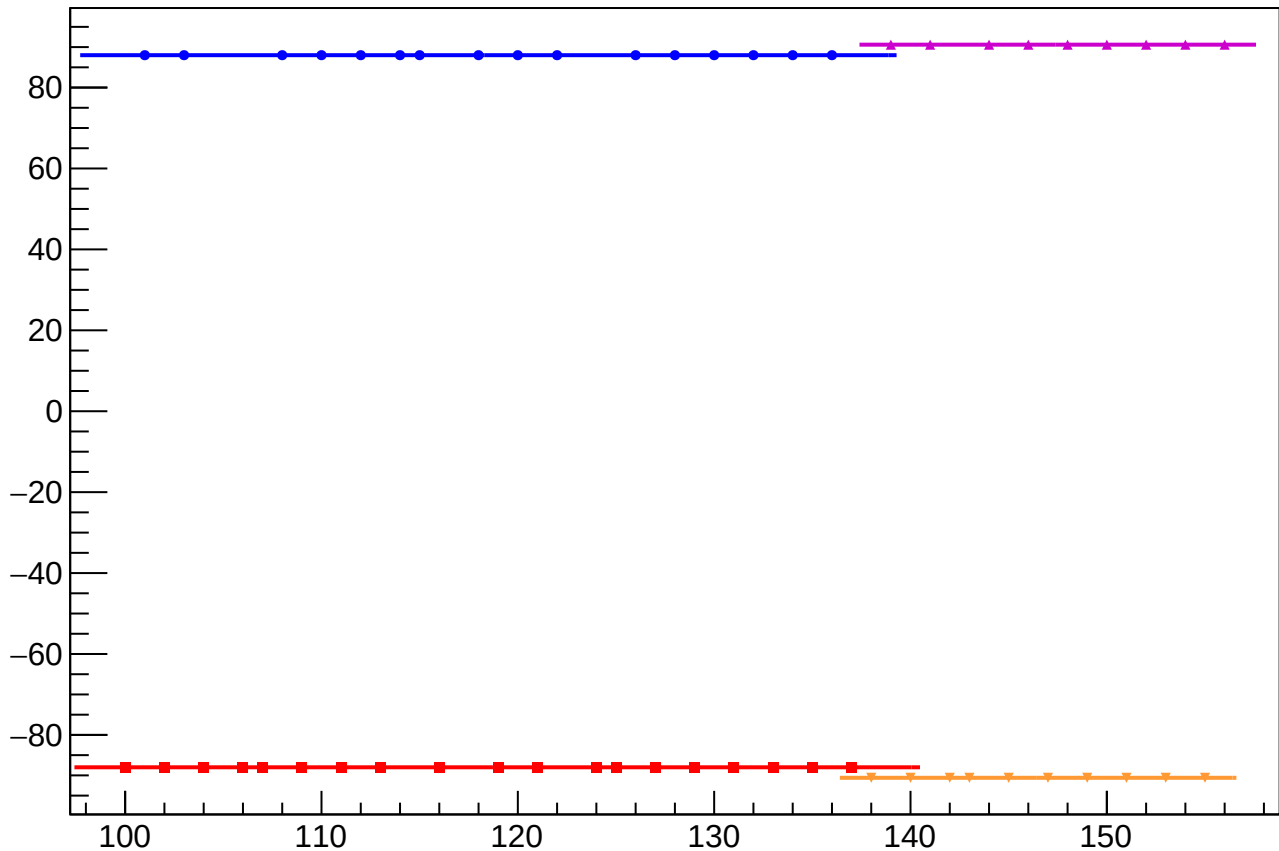
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.000+/-0.000 χ^2/NDF : 136208849806825152

Out: 0.000+/-0.000 χ^2/NDF : 138950469835754614

All: -0.000+/-0.000 χ^2/NDF : 2756195068359

VWienAngle_mean vs Slug, Sign Corrected



Right In: 88.001 ± 0.000 $\chi^2/\text{NDF}: 1500072.7/15$

Left Out: -90.599 ± 0.000 $\chi^2/\text{NDF}: 3103946.8/9$

Right Out: -88.003 ± 0.000 $\chi^2/\text{NDF}: 73227058941379664360176091136.0/18$

Left In: 90.599 ± 0.000 $\chi^2/\text{NDF}: 642801.7/8$

Left: -0.444 ± 0.000 $\chi^2/\text{NDF}: 13395513702332504$

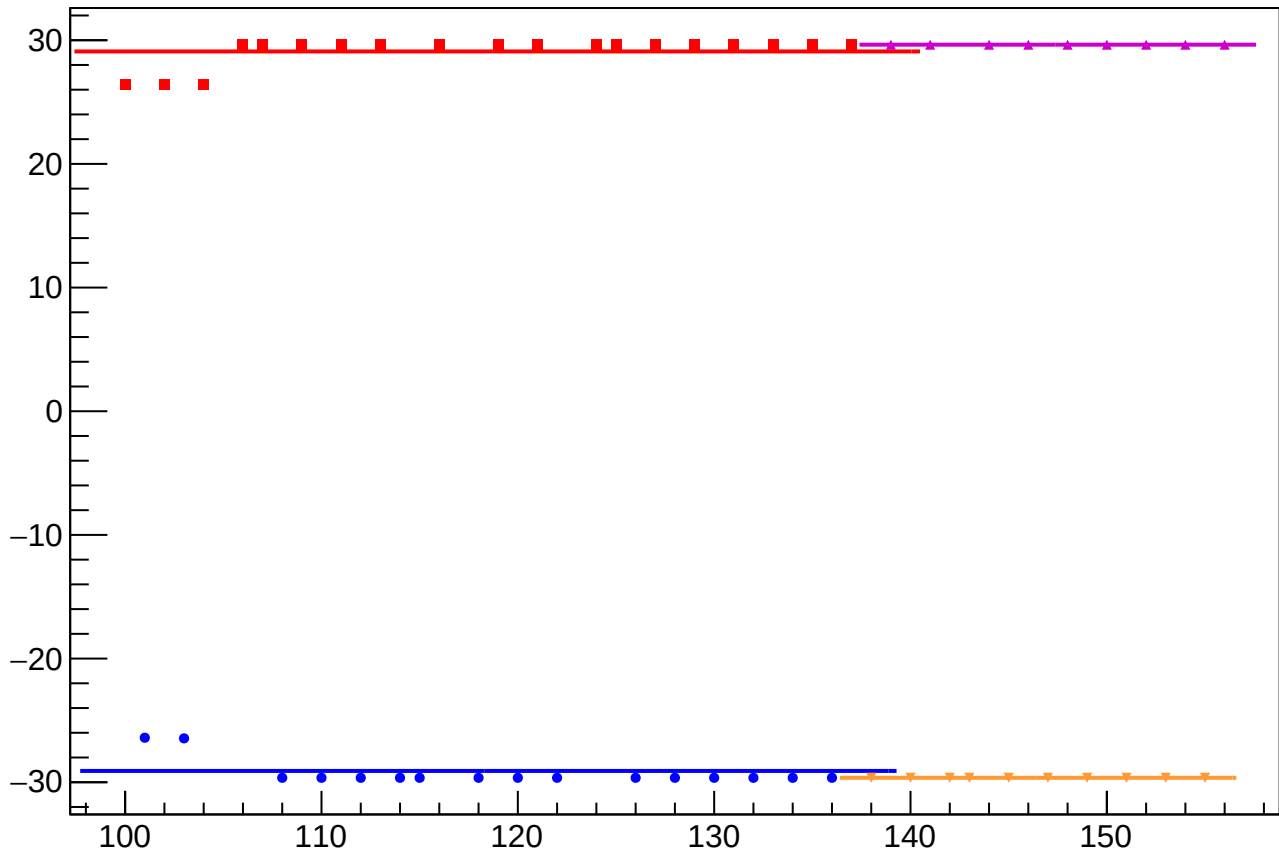
Right: -1.289 ± 0.000 $\chi^2/\text{NDF}: 1164502782894649$

In: 89.359 ± 0.000 $\chi^2/\text{NDF}: 261625192345056353$

Out: -89.348 ± 0.000 $\chi^2/\text{NDF}: 2663434536175051$

All: -0.849 ± 0.000 $\chi^2/\text{NDF}: 2504109973536$

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.085+/-0.000

χ^2/NDF : 1094367885251609877355036411953152.0/15

Left Out: -29.641+/-0.000

χ^2/NDF : 159425.6/9

Right Out: 29.093+/-0.000

χ^2/NDF : 1125238156749692849797805899776000.0/18

Left In: 29.641+/-0.000

χ^2/NDF : 34179.8/8

Left: -0.145+/-0.000 χ^2/NDF : 14337938780310761

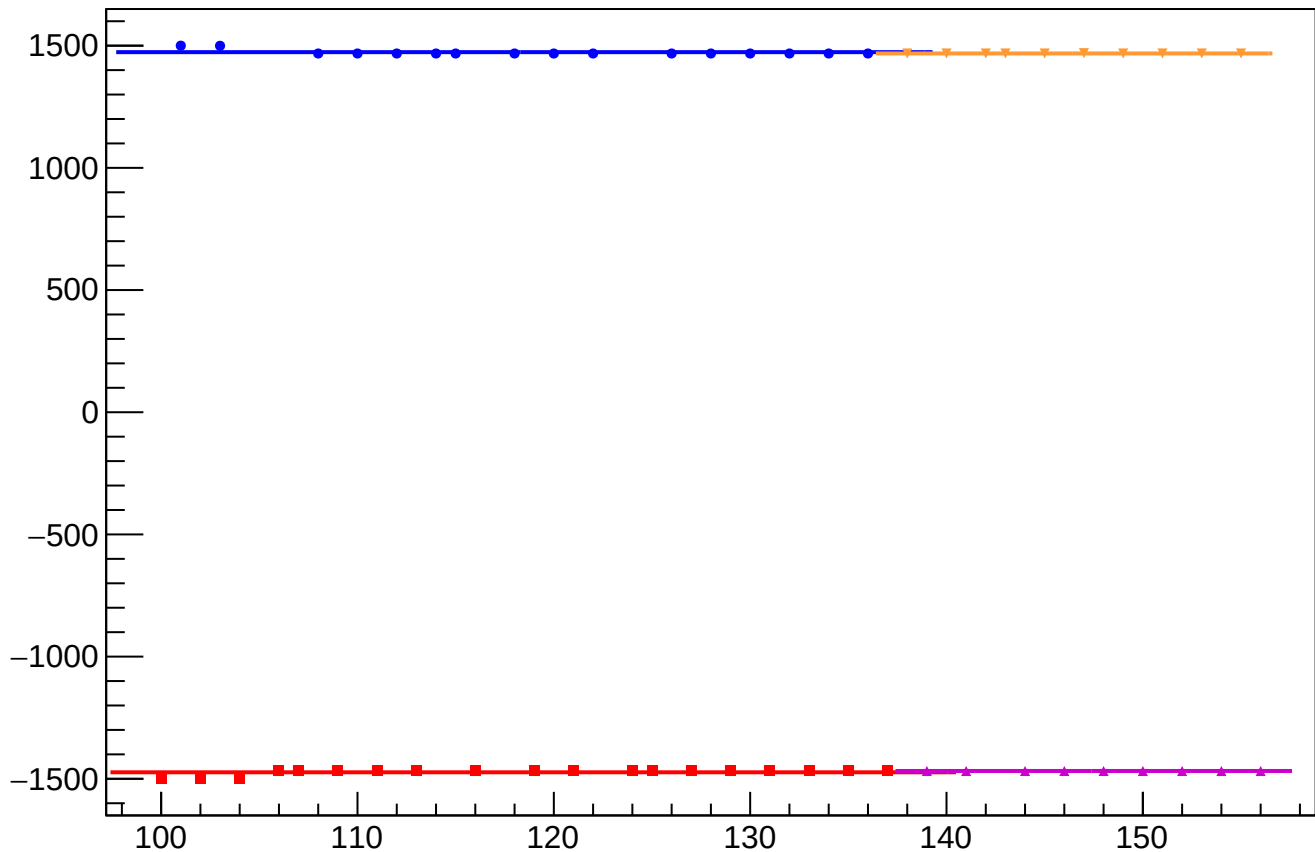
Right: 0.429+/-0.000 χ^2/NDF : 12746007522578358

In: 1.620+/-0.000 χ^2/NDF : 1337274902379192563

Out: -1.331+/-0.000 χ^2/NDF : 13645495417777073

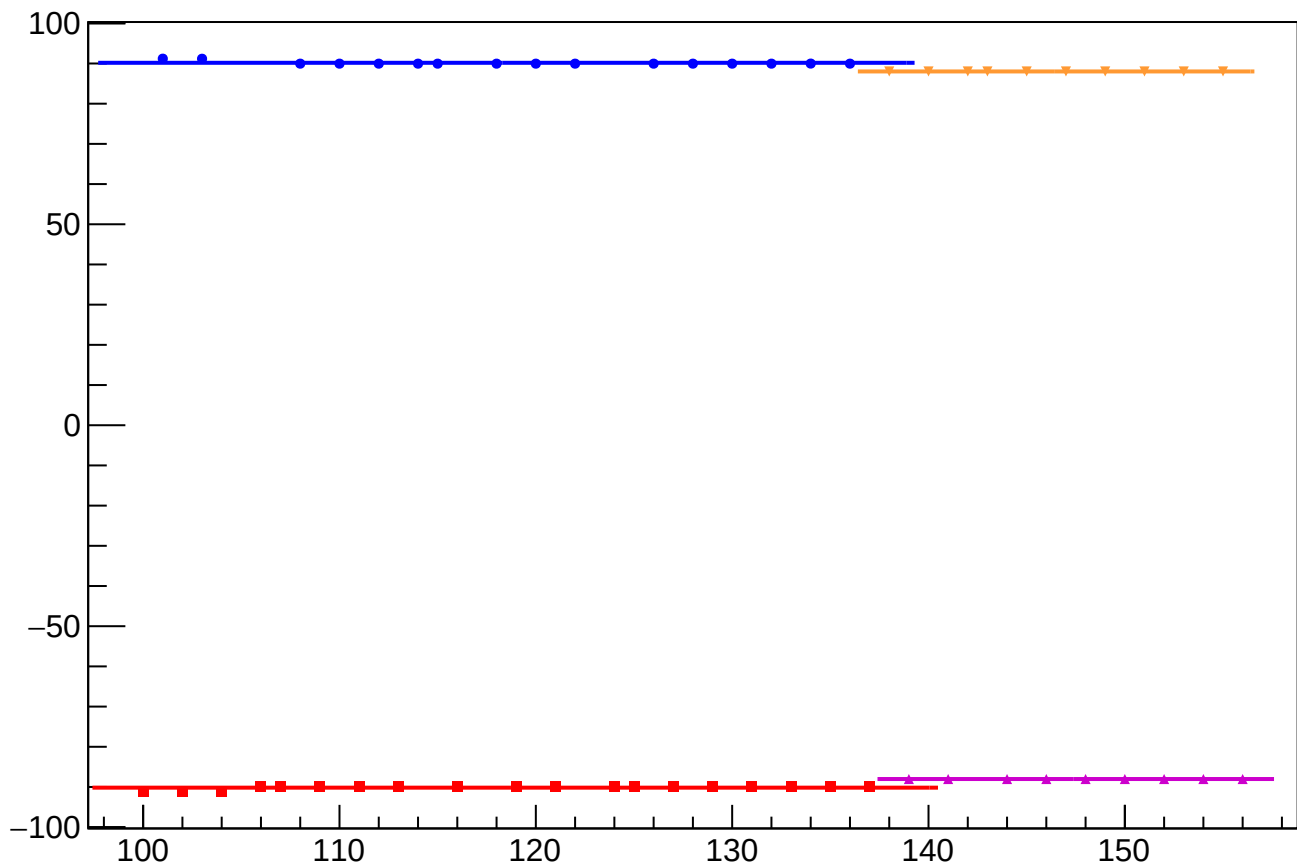
All: 0.130+/-0.000 χ^2/NDF : 27086530154104

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.467+/-0.000 χ^2/NDF : 106894194860706176878485793704771584.0/15
 Left Out: 1468.125+/-0.000 χ^2/NDF : 131813013128890536078026834182144.0/9
 Right Out: -1473.393+/-0.000 χ^2/NDF : 109909499733401078761067843300622336.0/18
 Left In: -1467.986+/-0.000 χ^2/NDF : 71818719189308178198712811520.0/8
 All: -6.537+/-0.000 χ^2/NDF : 6782527276614

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 : 2449028.1/9

Right Out: -90.169+/-0.000

χ^2/NDF : 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000

χ^2/NDF : 698943.4/8

Left: 0.431+/-0.000 χ^2/NDF : 126438514703233312

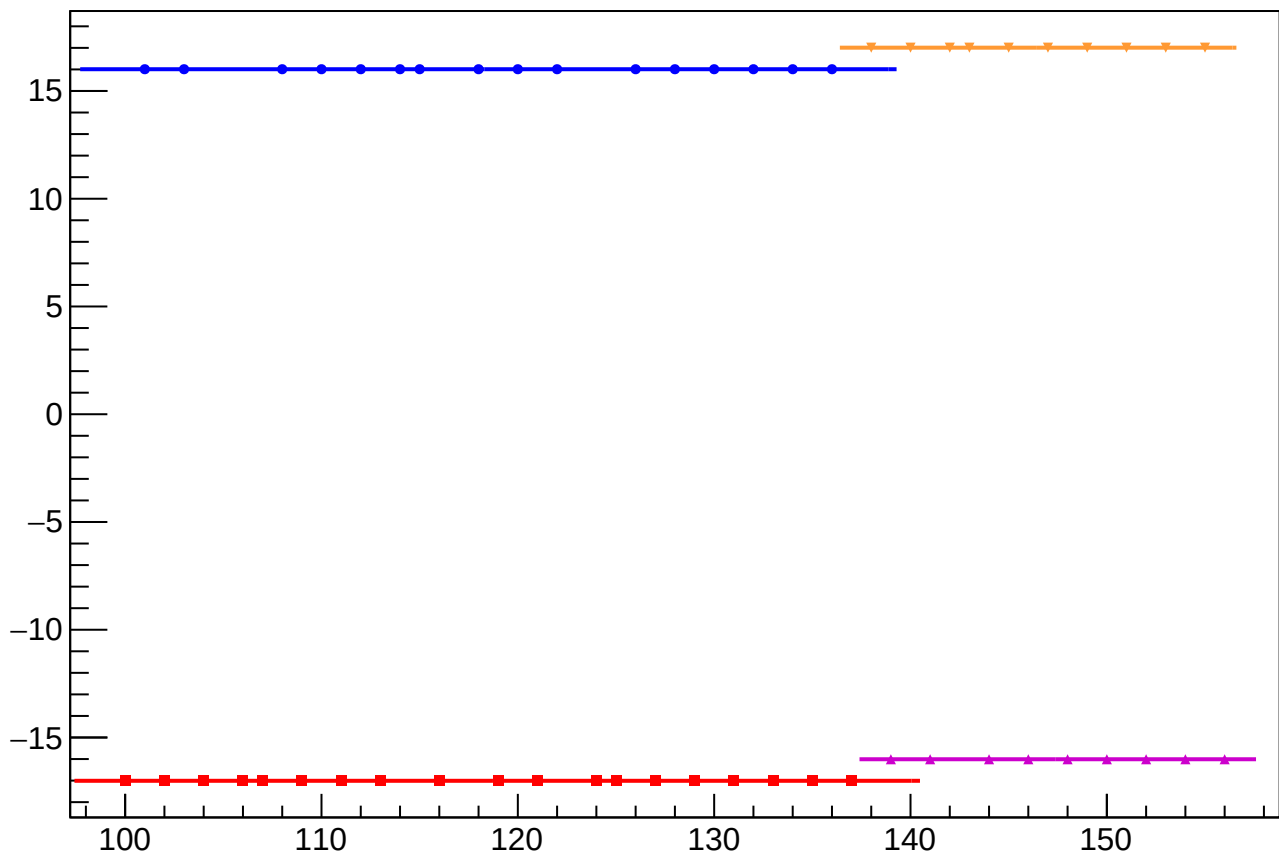
Right: -1.317+/-0.000 χ^2/NDF : 1222640469973926

In: -2.997+/-0.000 χ^2/NDF : 123024597424404204

Out: 2.134+/-0.000 χ^2/NDF : 125495487486150069

All: -0.407+/-0.000 χ^2/NDF : 2487264921455

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Left: 0.095 ± 0.000 , $\chi^2/\text{NDF}: 410495492883181690$

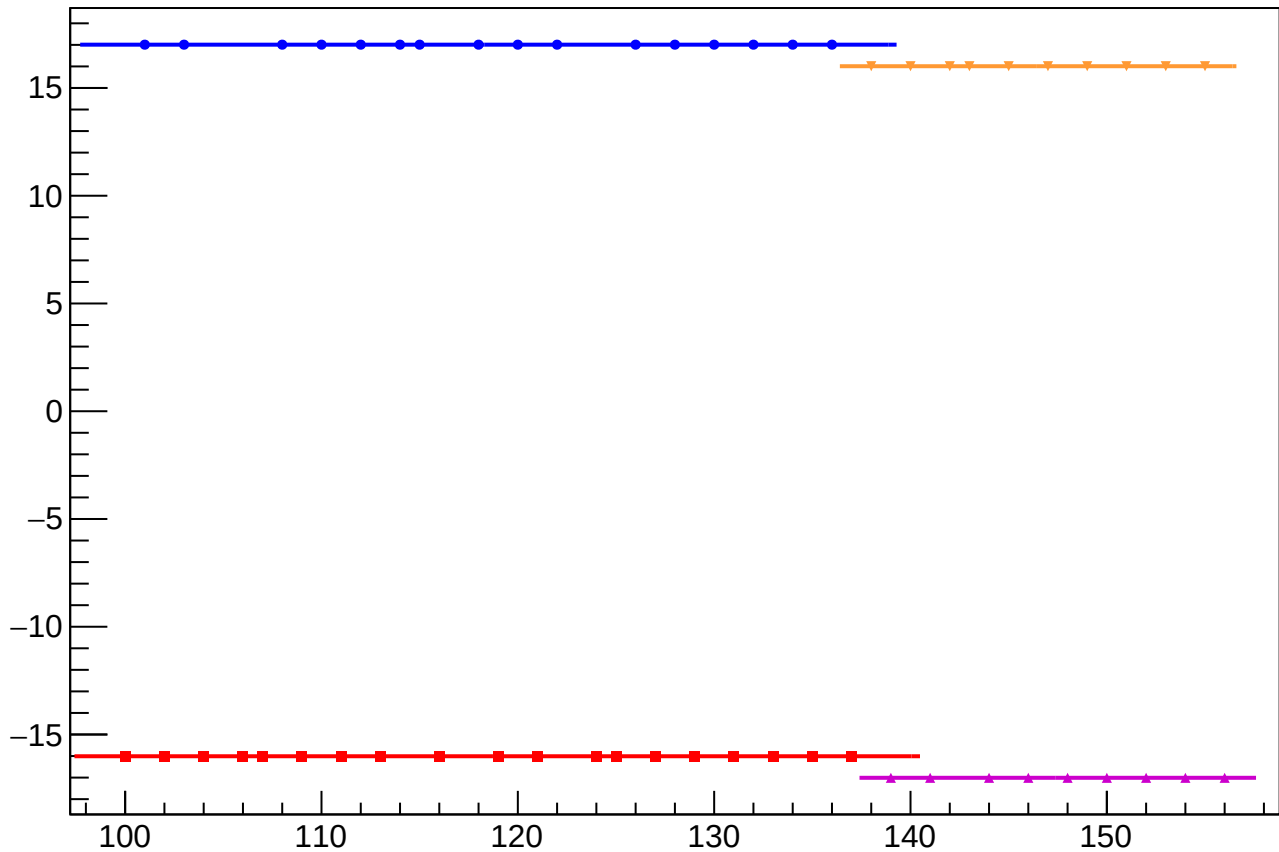
Right: -0.393 ± 0.000 , $\chi^2/\text{NDF}: 3802025477299216$

In: -0.760 ± 0.000 , $\chi^2/\text{NDF}: 376934314333235037$

Out: 0.500 ± 0.000 , $\chi^2/\text{NDF}: 412783797077840604$

All: -0.140 ± 0.000 , $\chi^2/\text{NDF}: 7908705741578$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2/NDF : 126634.3/15

Left Out: 16.009 $\pm$ 0.000 χ^2/NDF : 47533.6/9

Right Out: -16.009 $\pm$ 0.000 χ^2/NDF : 39518.8/18

Left In: -17.009 $\pm$ 0.000 χ^2/NDF : 16307.3/8

Left: -0.510 $\pm$ 0.000 χ^2/NDF : 44236384033589402

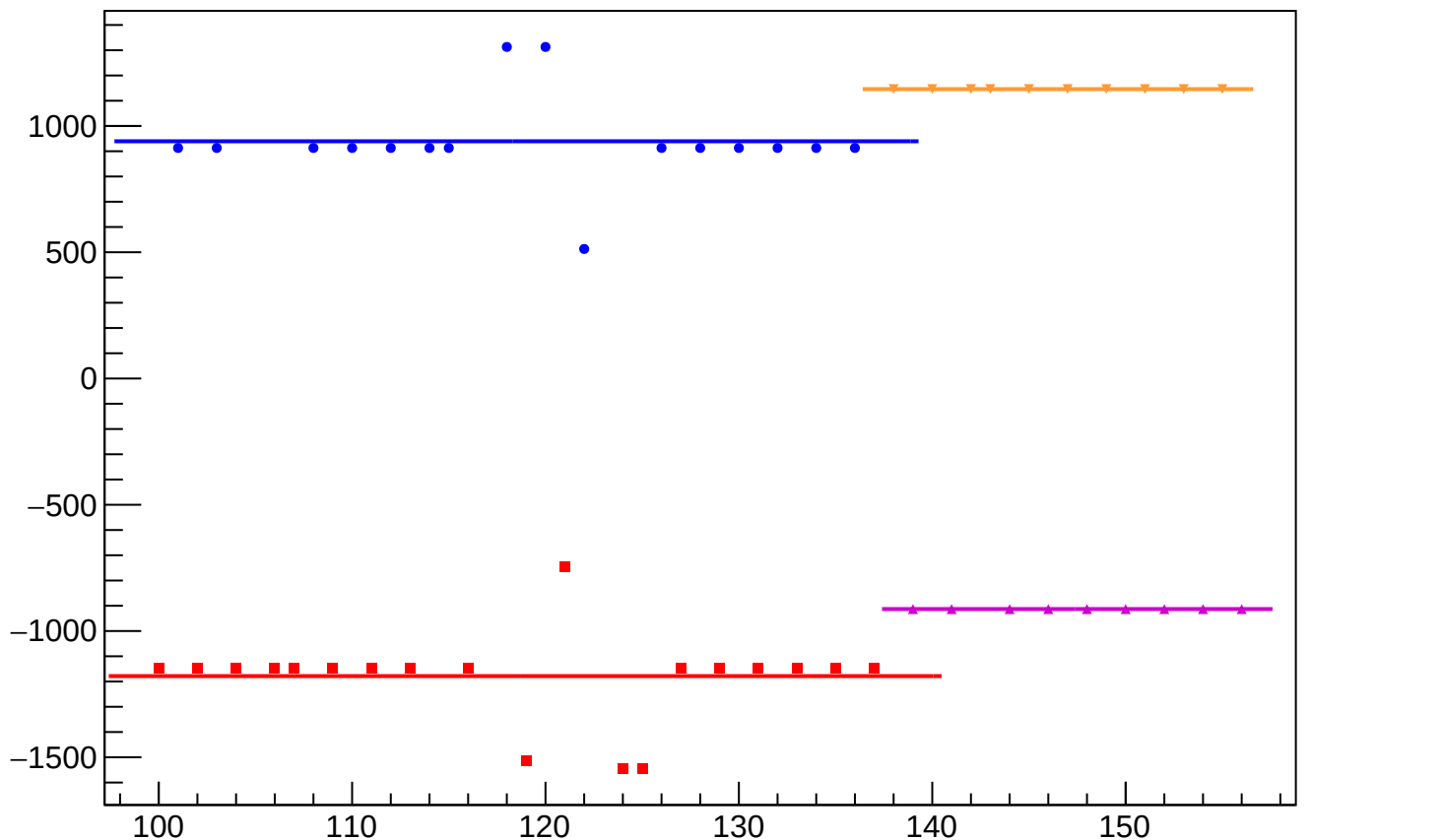
Right: -0.086 $\pm$ 0.000 χ^2/NDF : 3990694435474134

In: -1.176 $\pm$ 0.000 χ^2/NDF : 437375419964717331

Out: 0.530 $\pm$ 0.000 χ^2/NDF : 401949714142640872

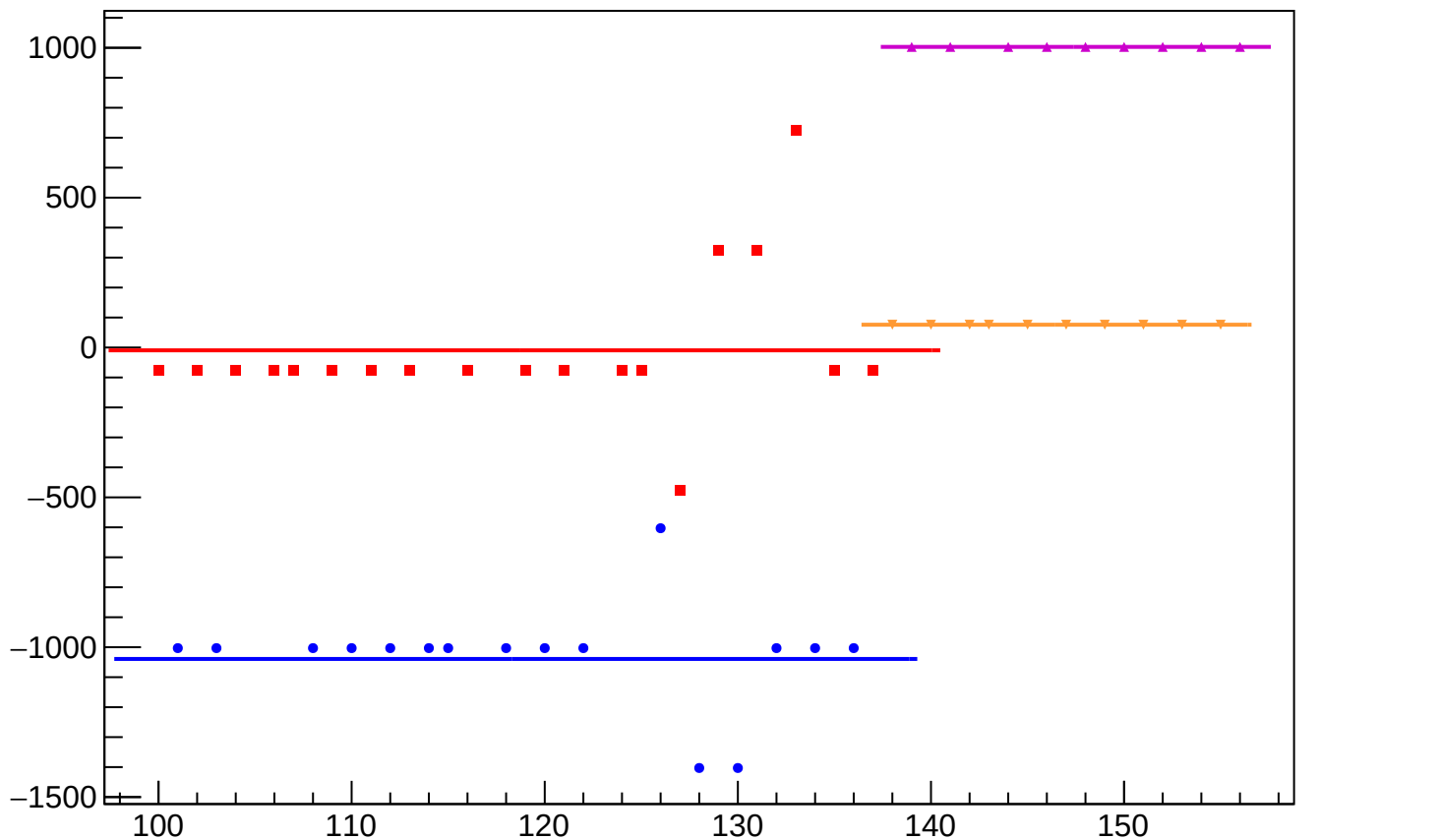
All: -0.309 $\pm$ 0.000 χ^2/NDF : 8415721321579

RTPAPOSUCNT_mean vs Slug, Sign Corrected



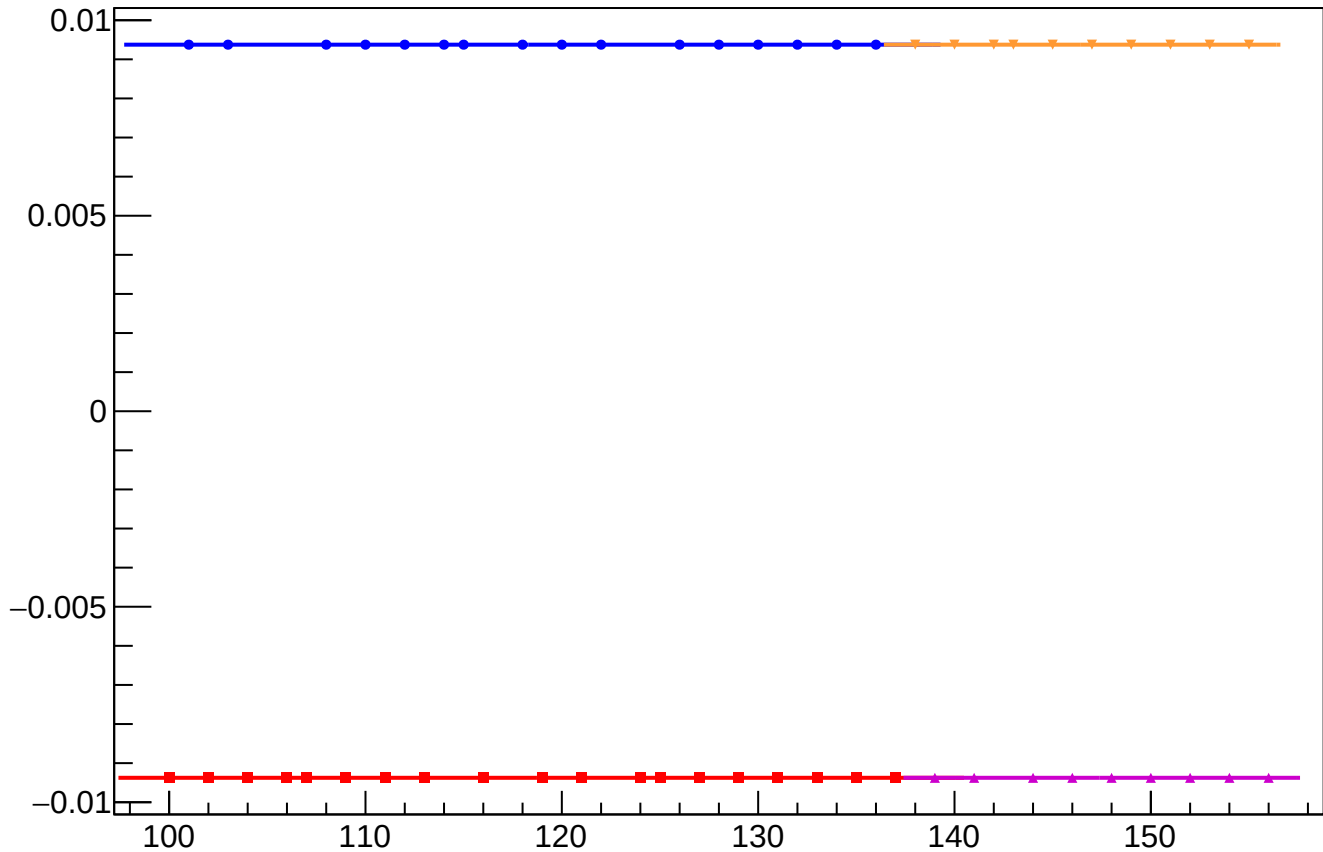
Right In: 939.446 $\pm$ 0.000 χ^2 /NDF: 21082933856092788763552768673189986304.0/15
 Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 2796121851177378618475020288.0/9
 Right Out: -1178.513 $\pm$ 0.000 χ^2 /NDF: 22140259958123277565481106114837741568.0/18
 Left In: -912.993 $\pm$ 0.000 χ^2 /NDF: 9003343822784975548429893632.0/8
 All: -1.498 $\pm$ 0.000 χ^2 /NDF: 3510705464951

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1039.157+/-0.000 χ^2/NDF : 22870377308507164002708101555084591104.0/15
 Left Out: 76.011+/-0.000 χ^2/NDF : 2947033777627973640257536000.0/9
 Right Out: -9.430+/-0.000 χ^2/NDF : 46057394734928766474893736526051540992.0/18
 Left In: 1002.989+/-0.000 χ^2/NDF : 1365932841508279096287690752.0/8
 All: 31.743+/-0.000 χ^2/NDF : 1687601756961.0/15

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 : 0.0/9

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left: 0.000+/-0.000 χ^2/NDF : 14343405330882298

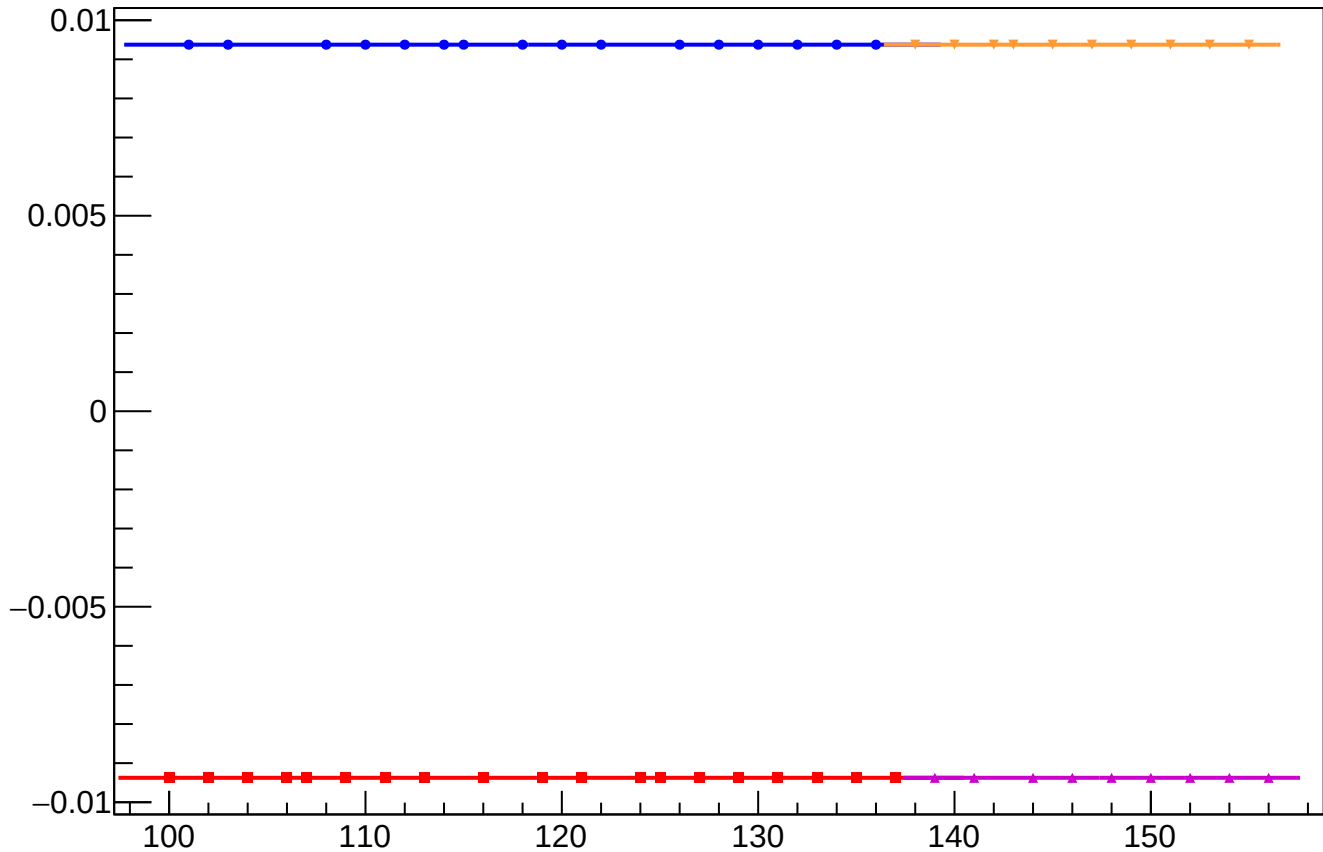
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.000+/-0.000 χ^2/NDF : 136208849806825152

Out: 0.000+/-0.000 χ^2/NDF : 138950469835754614

All: -0.000+/-0.000 χ^2/NDF : 2756195068359

RTPPITA2CNT_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 : 0.0/9

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left: 0.000+/-0.000 χ^2/NDF : 14343405330882298

Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.000+/-0.000 χ^2/NDF : 136208849806825152

Out: 0.000+/-0.000 χ^2/NDF : 138950469835754614

All: -0.000+/-0.000 χ^2/NDF : 2756195068359