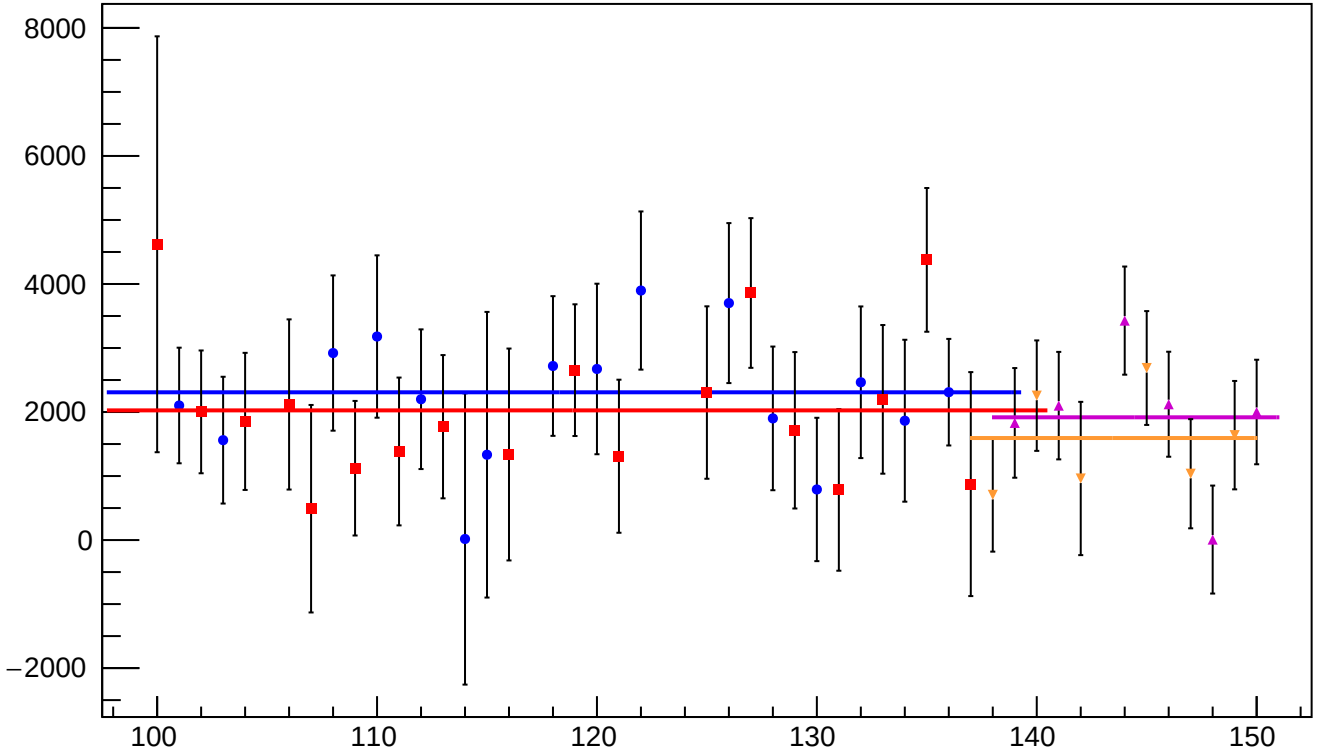
# reg_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2308.155+/-290.431 $\chi^2$/NDF: 7.8/15

Left Out: 1593.843+/-368.931 $\chi^2$/NDF:3.8/5

Right Out: 2025.627+/-289.797 $\chi^2$/NDF: 11.9/17

Left In: 1917.511+/-341.479 $\chi^2$/NDF:8.5/5

Left: 1768.166+/-250.606 $\chi^2$/NDF: 12.7/11

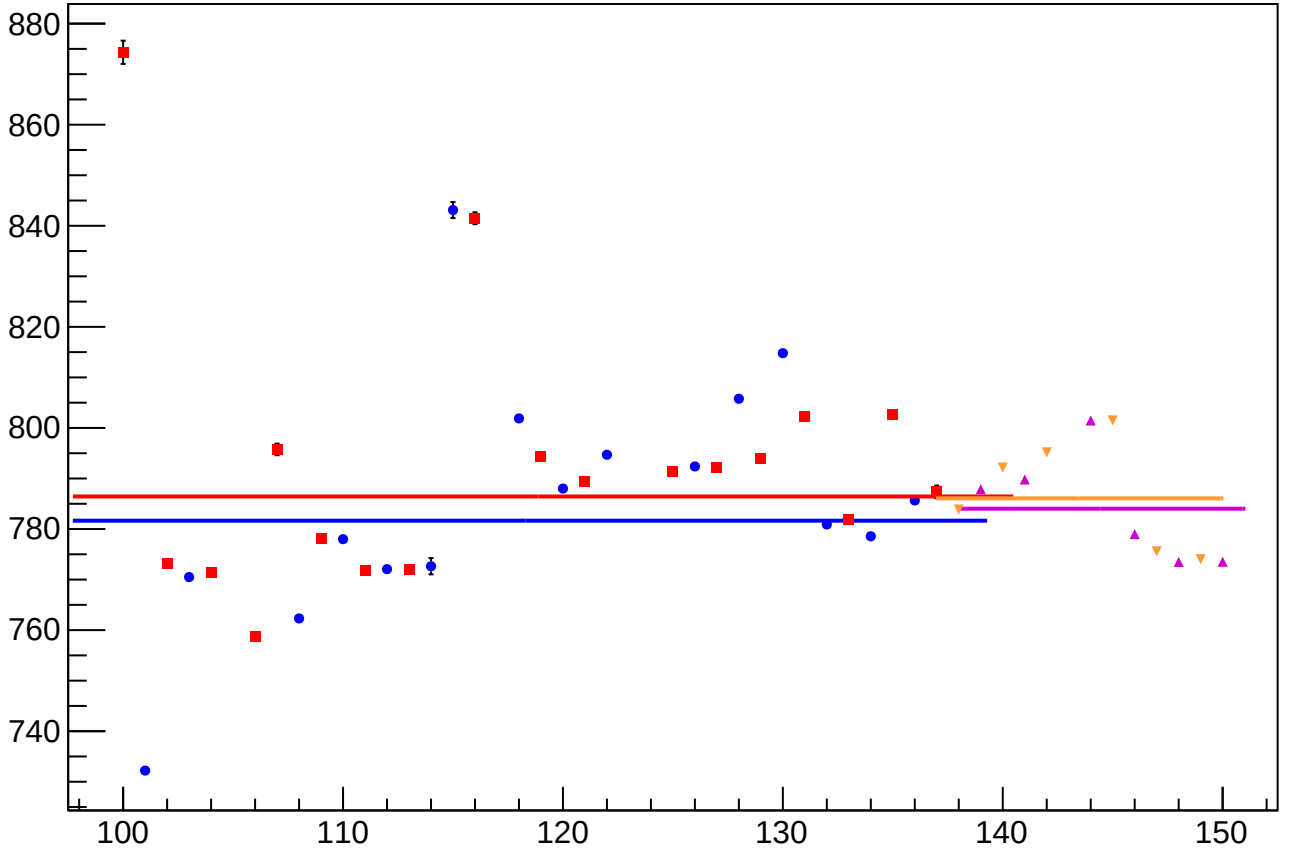
Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2144.186+/-221.235 $\chi^2$/NDF:17.0/21

Out: 1860.868+/-227.896 $\chi^2$/NDF:16.6/23

All: 2006.727+/-158.740 $\chi^2$/NDF: 34.4/45

# reg_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 786.068+/-0.261 $\chi^2$/NDF:1536.1/5

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 784.020+/-0.241 $\chi^2$/NDF:1706.0/5

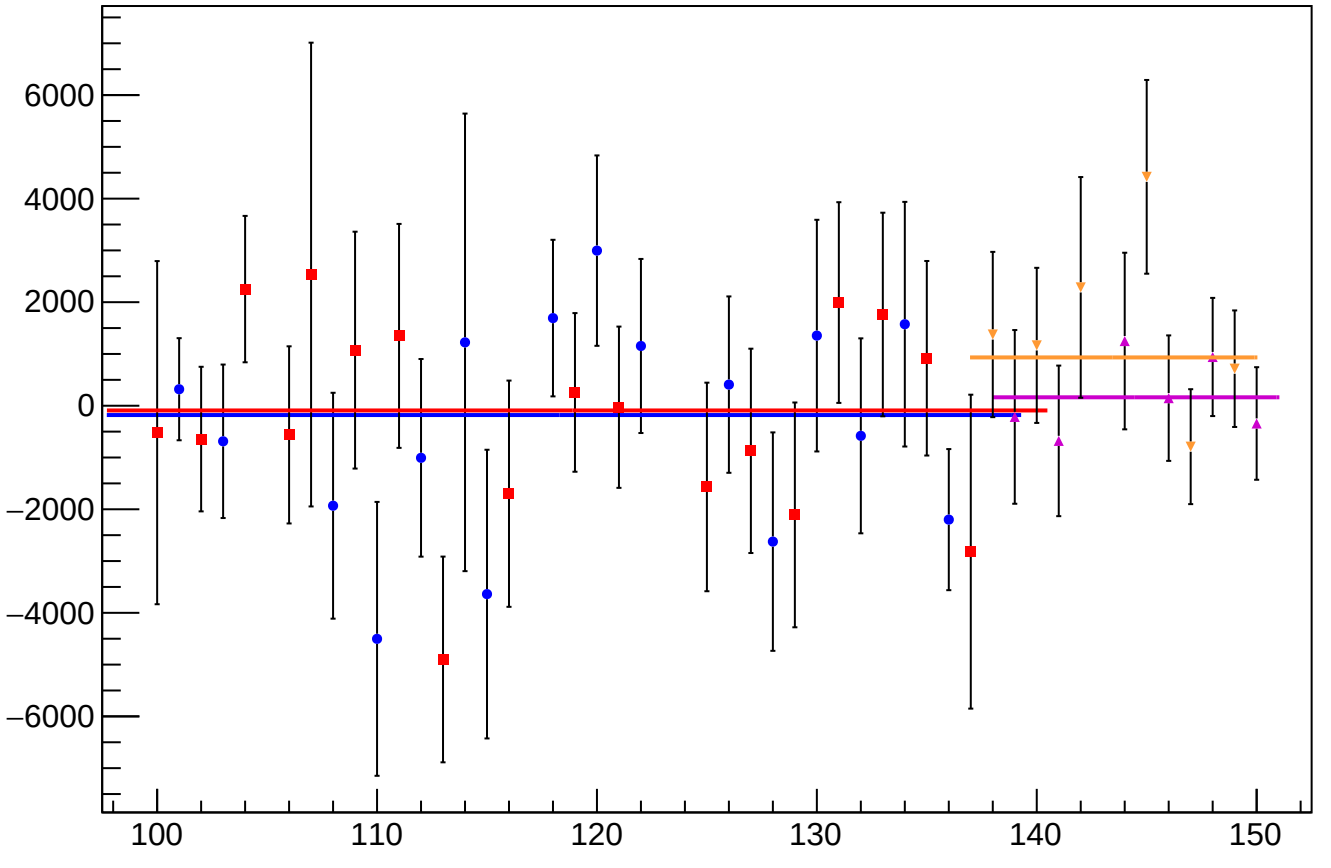
Left: 784.965+/-0.177 $\chi^2$/NDF: 3275.3/11

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 782.647+/-0.156 $\chi^2$/NDF:14080.8/21

Out: 786.300+/-0.161 $\chi^2$/NDF:8738.9/23

All: 784.419+/-0.112 $\chi^2$/NDF: 23084.3/45




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: 933.038+/-582.679 $\chi^2$/NDF:6.4/5

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 162.839+/-537.063 $\chi^2$/NDF:1.5/5

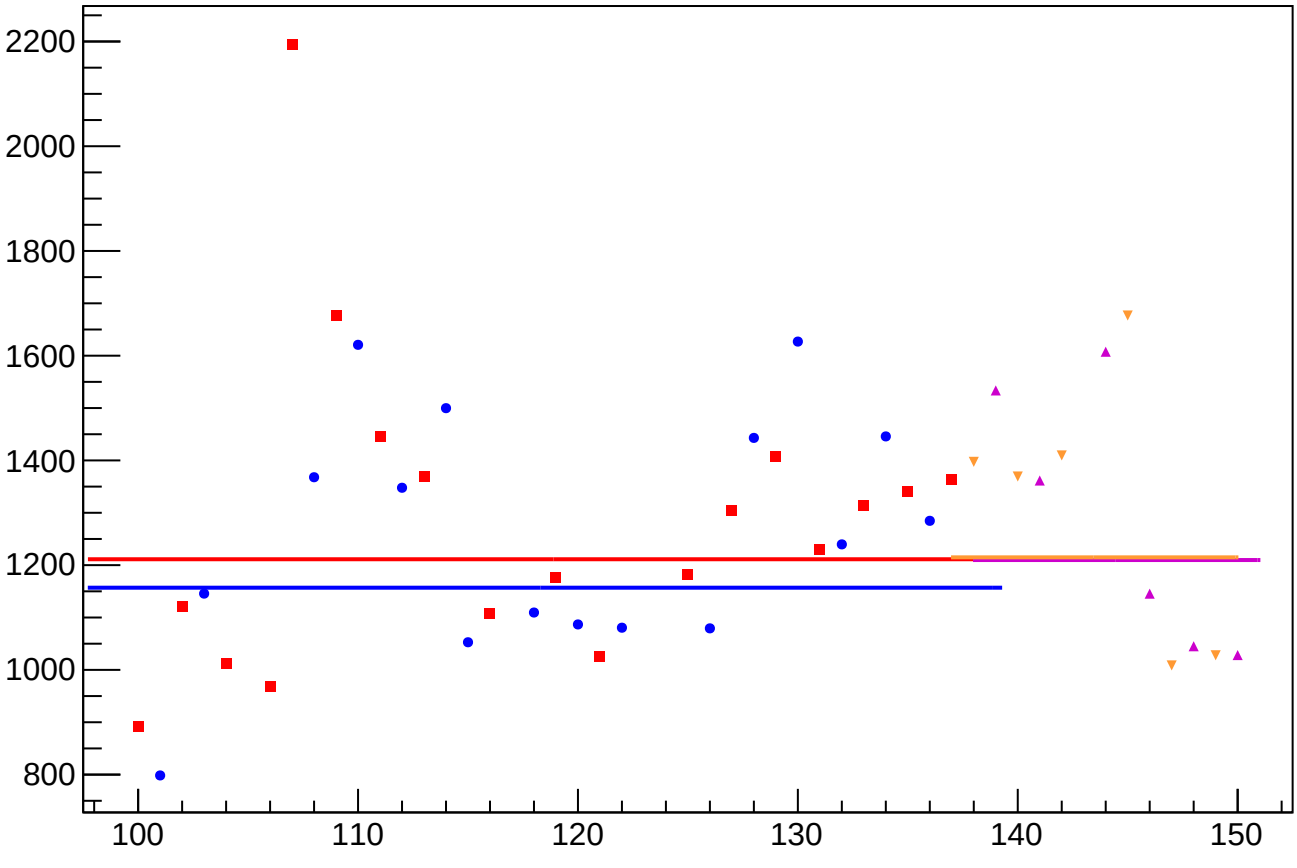
Left: 516.614+/-394.904 $\chi^2$/NDF: 8.8/11

Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -41.975+/-340.716 $\chi^2$/NDF:17.1/21

Out: 296.518+/-358.523 $\chi^2$/NDF:23.5/23

All: 118.657+/-246.978 $\chi^2$/NDF: 41.1/45




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1214.879+/-0.412 $\chi^2$/NDF:310283.4/5

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1209.762+/-0.380 $\chi^2$/NDF:308137.5/5

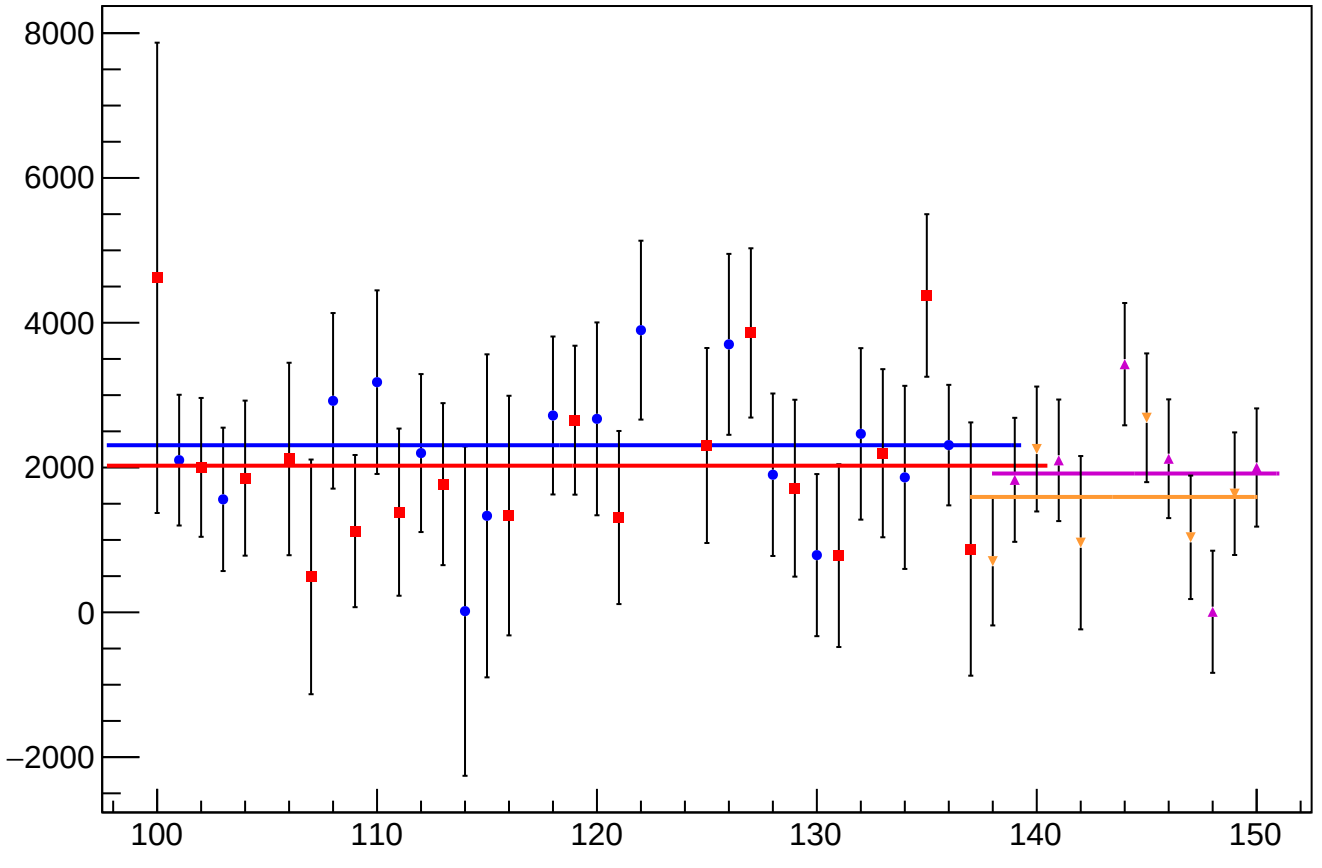
Left: 1212.112+/-0.279 $\chi^2$/NDF: 618504.3/11

Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1178.204+/-0.241 $\chi^2$/NDF:888814.0/21

Out: 1212.633+/-0.254 $\chi^2$/NDF:708045.8/23

All: 1194.542+/-0.175 $\chi^2$/NDF: 1606550.6/45




Right In: 2308.155+/-290.431 $\chi^2$/NDF: 7.8/15

Left Out: 1593.843+/-368.931 $\chi^2$/NDF:3.8/5

Right Out: 2025.627+/-289.797 $\chi^2$/NDF: 11.9/17

Left In: 1917.511+/-341.479 $\chi^2$/NDF:8.5/5

Left: 1768.166+/-250.606 $\chi^2$/NDF: 12.7/11

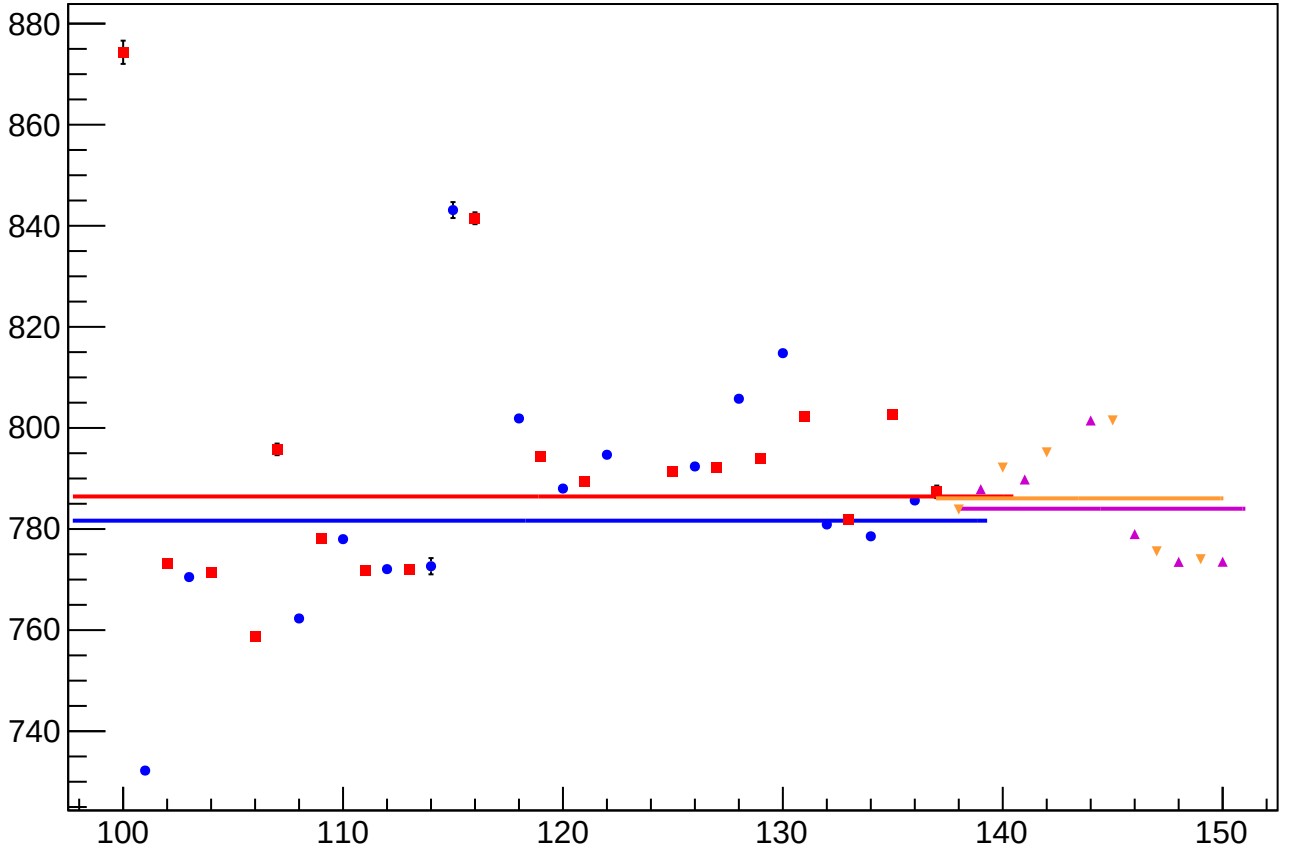
Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2144.186+/-221.235 $\chi^2$/NDF:17.0/21

Out: 1860.868+/-227.896 $\chi^2$/NDF:16.6/23

All: 2006.727+/-158.740 $\chi^2$/NDF: 34.4/45

# cor_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 786.068+/-0.261 $\chi^2$/NDF:1536.1/5

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 784.020+/-0.241 $\chi^2$/NDF:1706.0/5

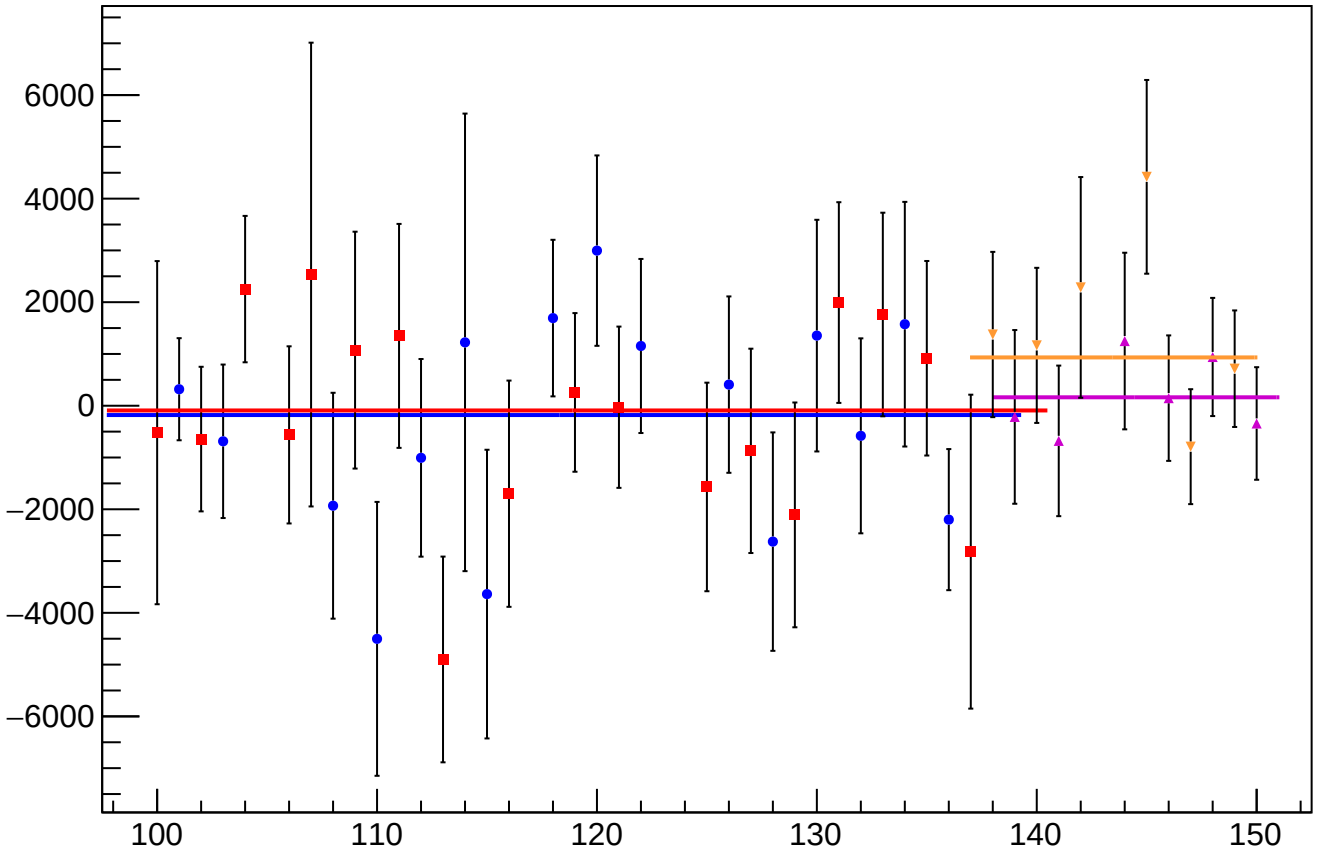
Left: 784.965+/-0.177 $\chi^2$/NDF: 3275.3/11

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 782.647+/-0.156 $\chi^2$/NDF:14080.8/21

Out: 786.300+/-0.161 $\chi^2$/NDF:8738.9/23

All: 784.419+/-0.112 $\chi^2$/NDF: 23084.3/45




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: 933.038+/-582.679 $\chi^2$/NDF:6.4/5

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 162.839+/-537.063 $\chi^2$/NDF:1.5/5

Left: 516.614+/-394.904 $\chi^2$/NDF: 8.8/11

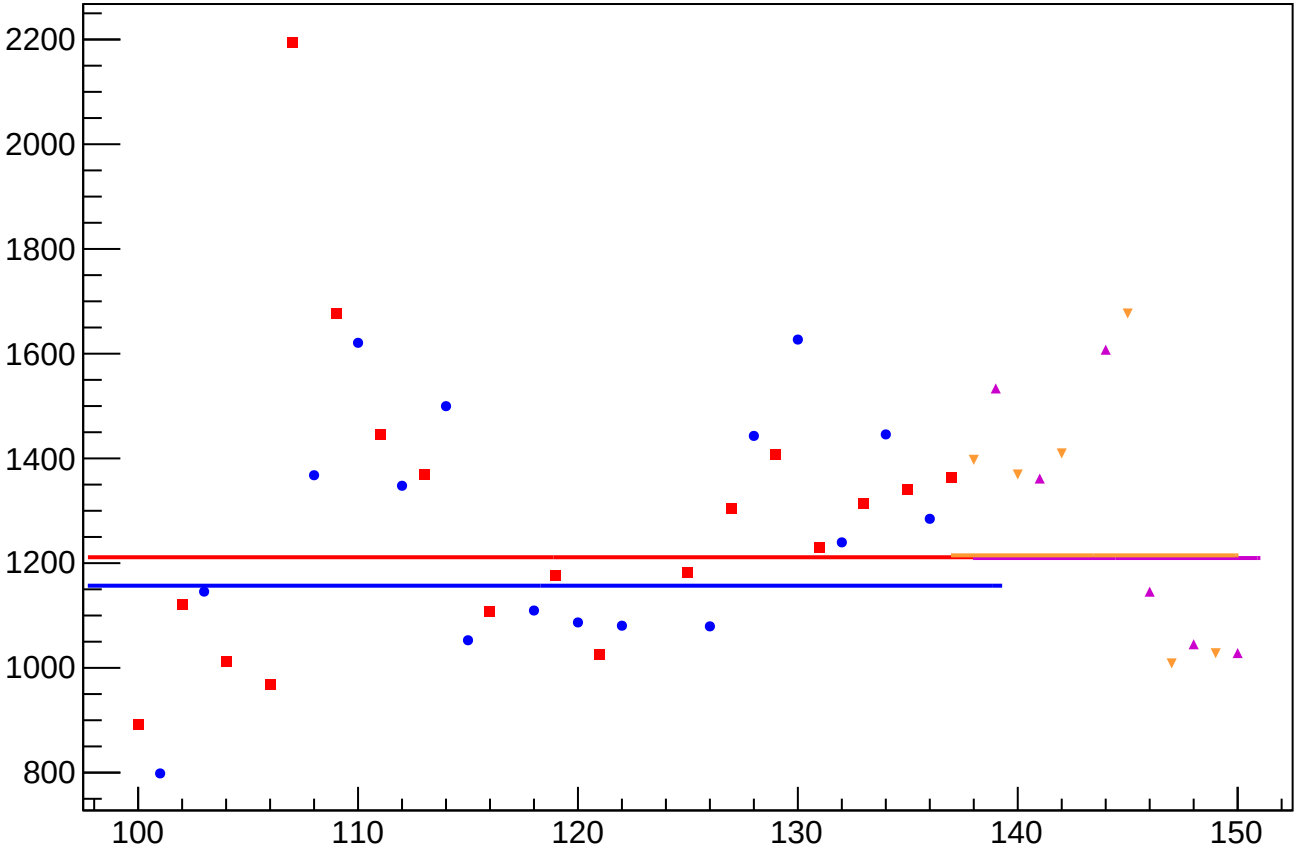
Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -41.975+/-340.716 $\chi^2$/NDF:17.1/21

Out: 296.518+/-358.523 $\chi^2$/NDF:23.5/23

All: 118.657+/-246.978 $\chi^2$/NDF: 41.1/45

# asym_us_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1214.879+/-0.412 $\chi^2$/NDF:310283.4/5

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1209.762+/-0.380 $\chi^2$/NDF:308137.5/5

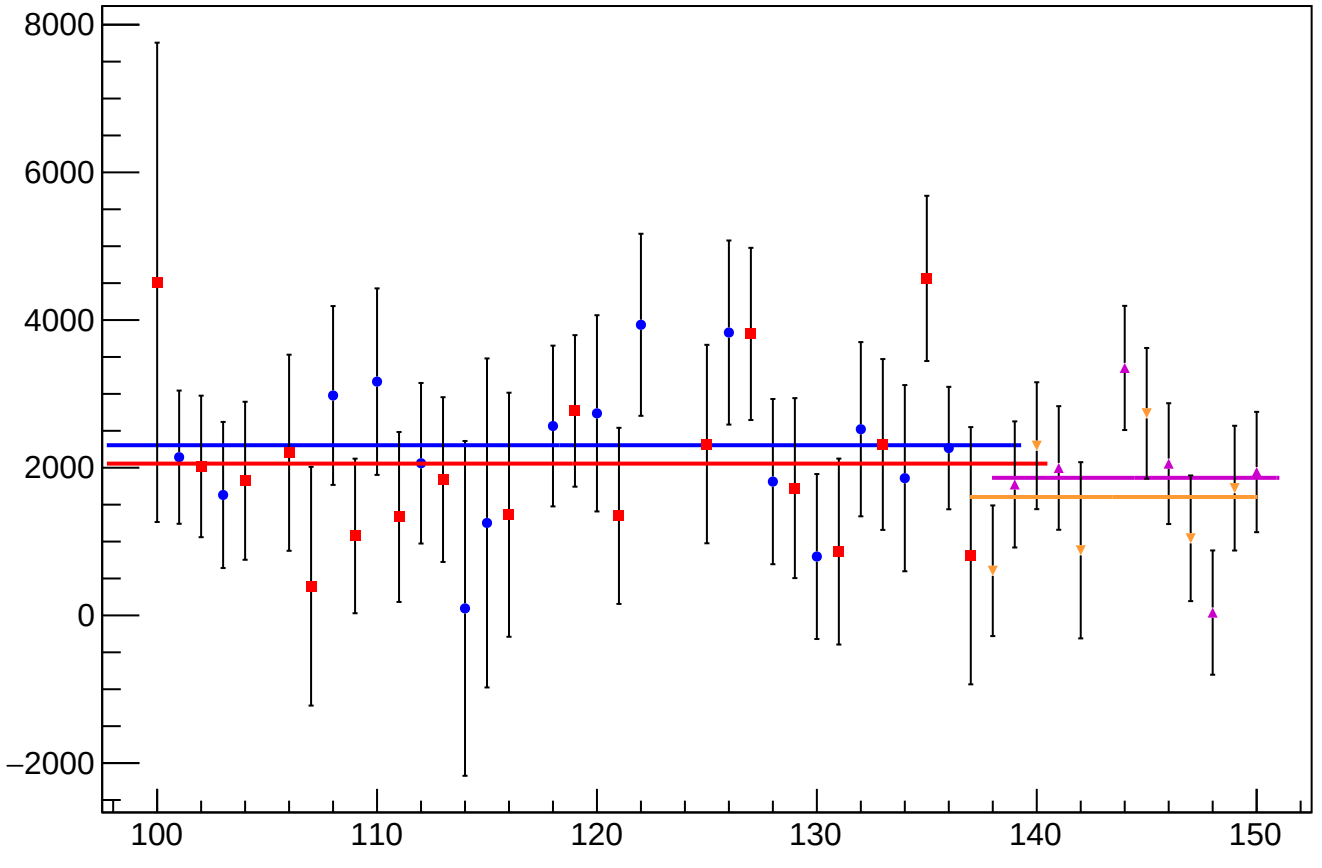
Left: 1212.112+/-0.279 $\chi^2$/NDF: 618504.3/11

Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1178.204+/-0.241 $\chi^2$/NDF:888814.0/21

Out: 1212.633+/-0.254 $\chi^2$/NDF:708045.8/23

All: 1194.542+/-0.175 $\chi^2$/NDF: 1606550.6/45




Right In: 2304.852+/-289.704 $\chi^2$/NDF: 8.1/15

Left Out: 1603.621+/-367.769 $\chi^2$/NDF:4.4/5

Right Out: 2055.666+/-289.090 $\chi^2$/NDF: 12.9/17

Left In: 1863.330+/-340.518 $\chi^2$/NDF:7.9/5

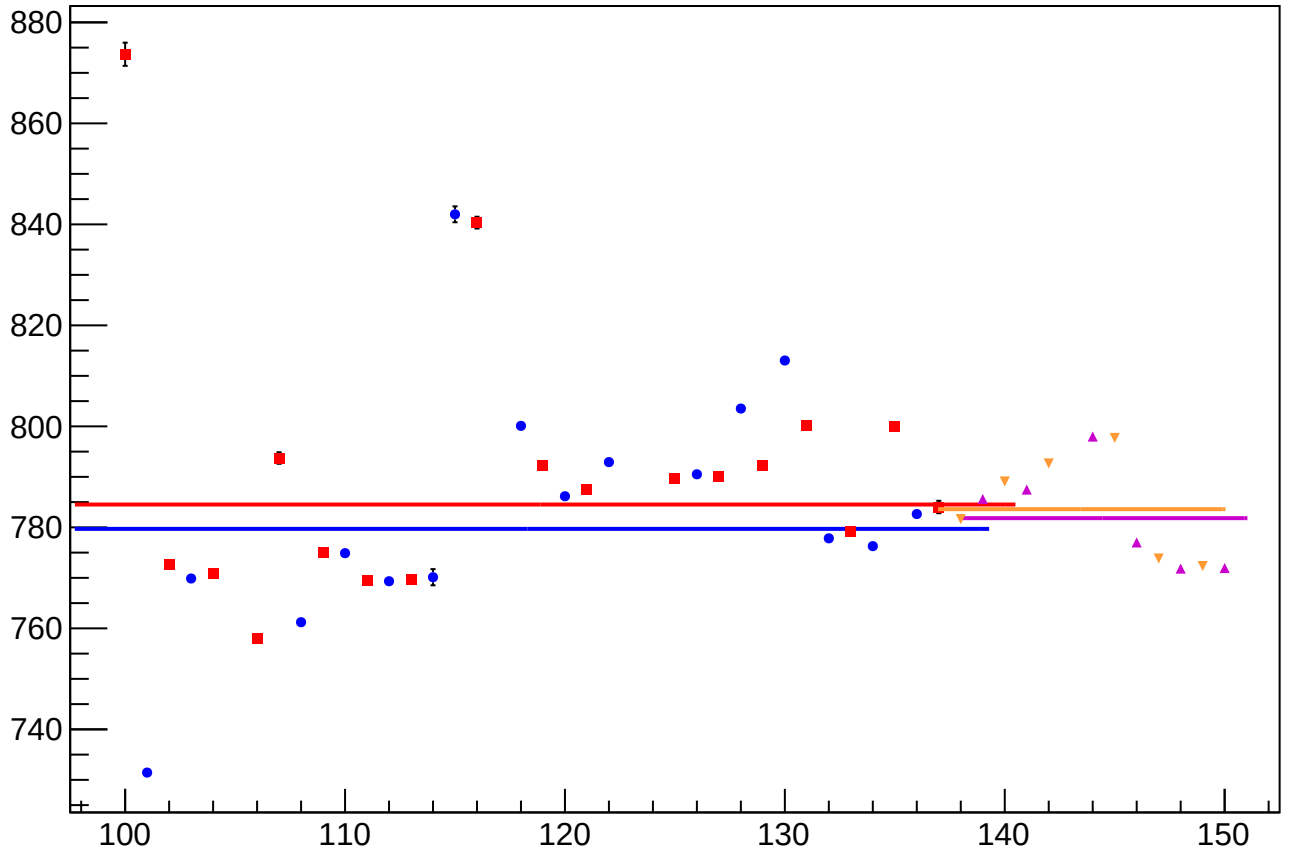
Left: 1743.453+/-249.862 $\chi^2$/NDF: 12.6/11

Right: 2179.995+/-204.634 $\chi^2$/NDF: 21.3/33

In: 2119.461+/-220.652 $\chi^2$/NDF:17.0/21

Out: 1883.025+/-227.278 $\chi^2$/NDF:18.2/23

All: 2004.739+/-158.315 $\chi^2$/NDF: 35.7/45




Right In: 779.702+/-0.205 $\chi^2$/NDF: 12060.2/15

Left Out: 783.603+/-0.260 $\chi^2$/NDF:1334.2/5

Right Out: 784.524+/-0.204 $\chi^2$/NDF: 7160.0/17

Left In: 781.823+/-0.241 $\chi^2$/NDF:1514.0/5

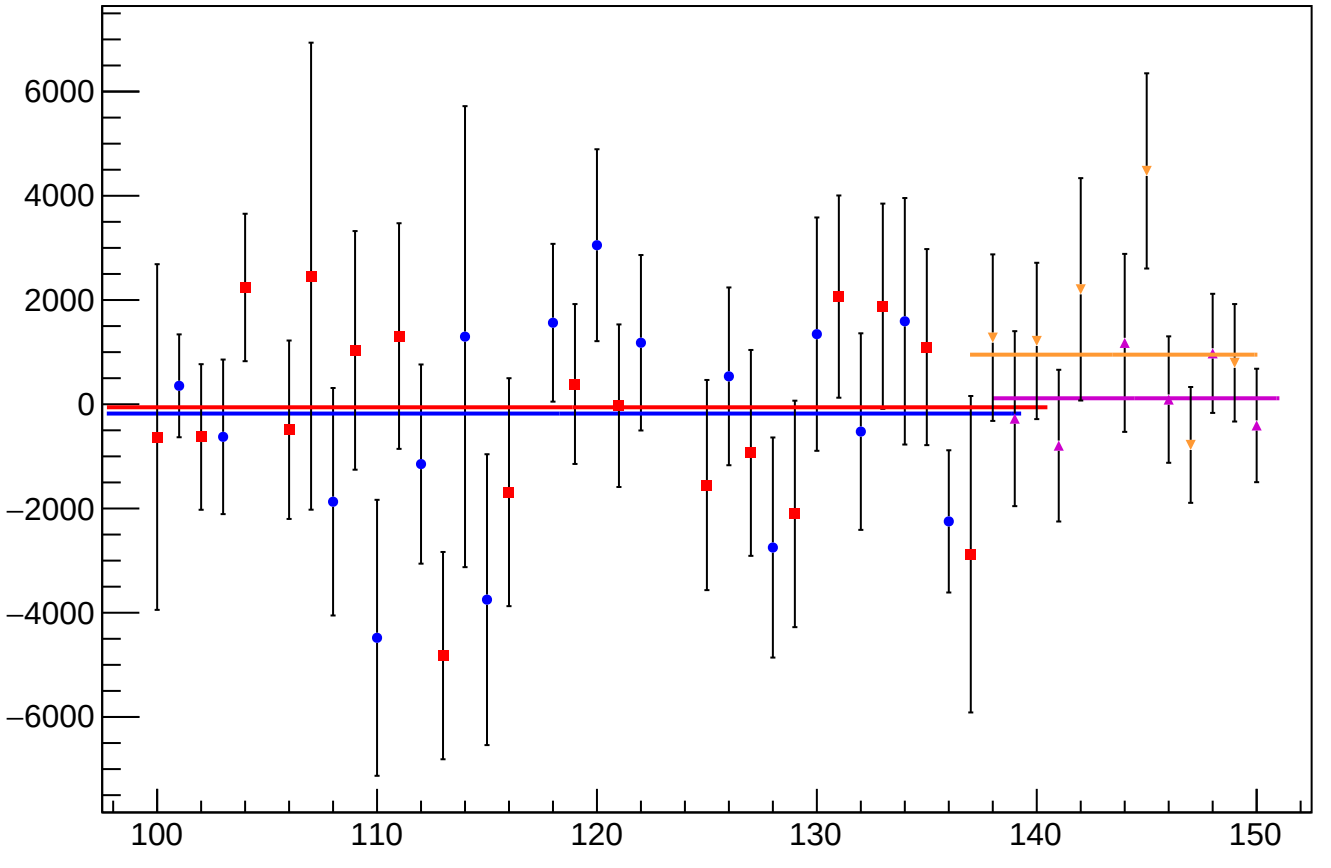
Left: 782.644+/-0.177 $\chi^2$/NDF: 2873.5/11

Right: 782.118+/-0.145 $\chi^2$/NDF: 19498.0/33

In: 780.593+/-0.156 $\chi^2$/NDF:13619.3/21

Out: 784.172+/-0.161 $\chi^2$/NDF:8502.0/23

All: 782.330+/-0.112 $\chi^2$/NDF: 22376.7/45




Right In: -178.457+/-441.218 $\chi^2$/NDF: 15.7/15

Left Out: 951.662+/-583.373 $\chi^2$/NDF:6.4/5

Right Out: -58.040+/-455.216 $\chi^2$/NDF: 15.3/17

Left In: 114.728+/-537.645 $\chi^2$/NDF:1.6/5

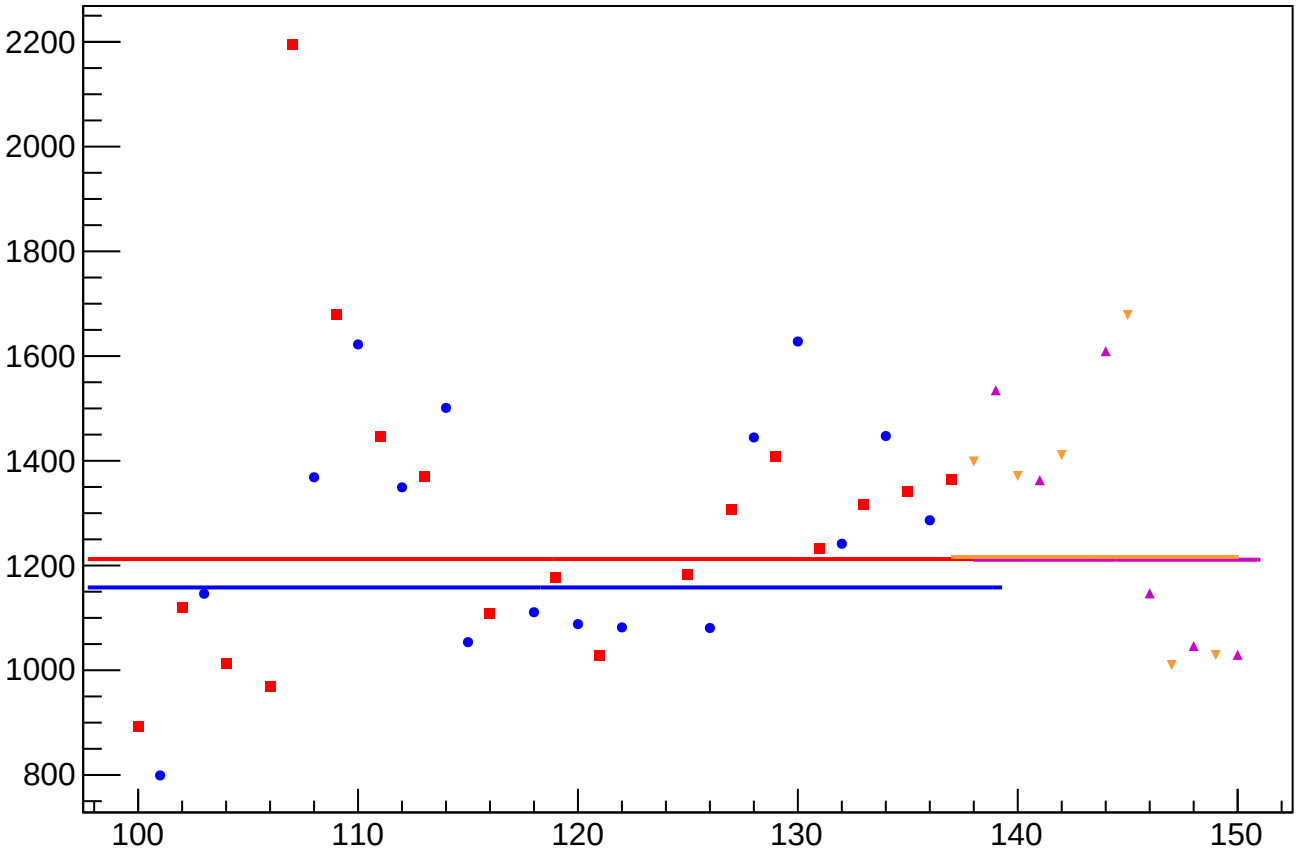
Left: 499.112+/-395.351 $\chi^2$/NDF: 9.2/11

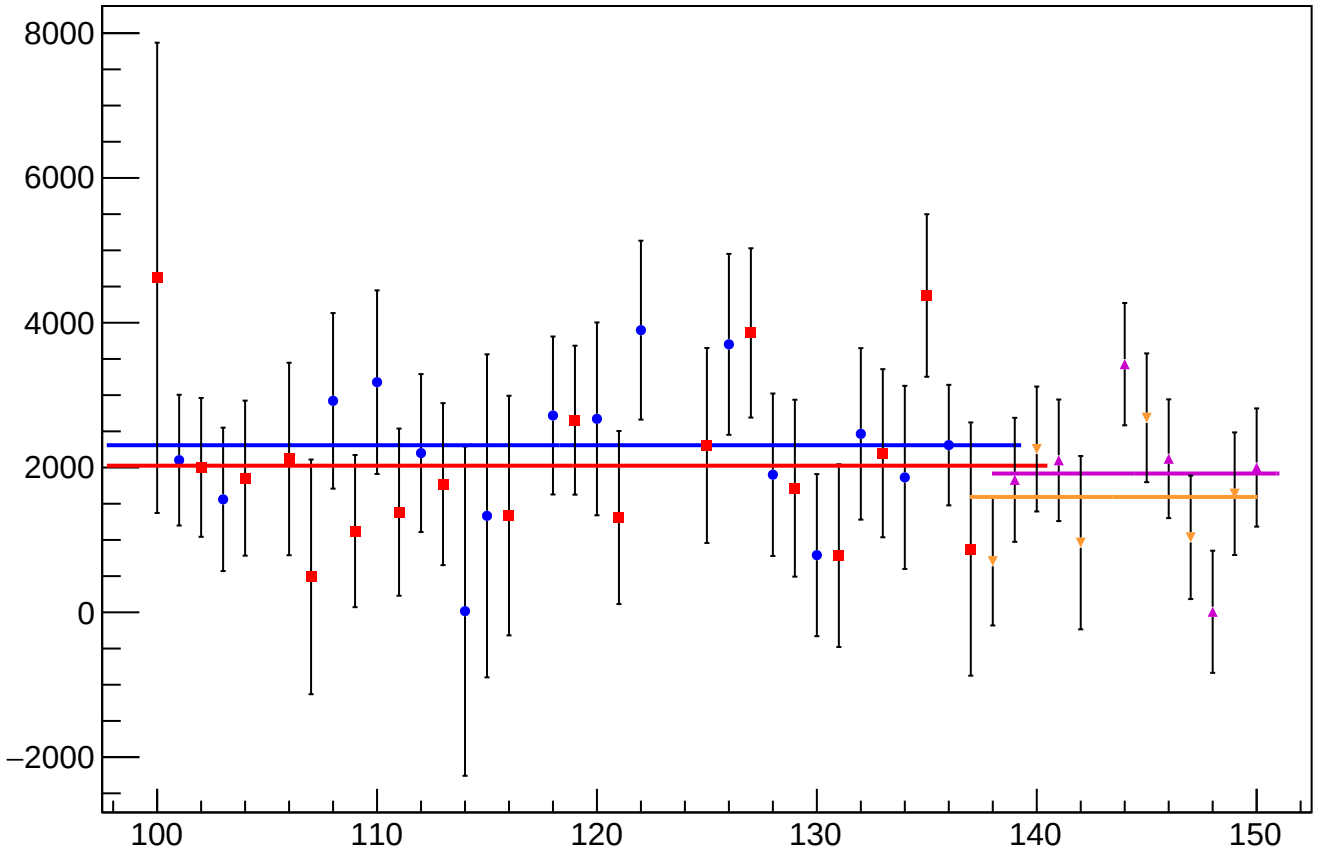
Right: -120.128+/-316.821 $\chi^2$/NDF: 31.0/33

In: -60.468+/-341.071 $\chi^2$/NDF:17.5/21

Out: 324.088+/-358.884 $\chi^2$/NDF:23.5/23

All: 122.030+/-247.231 $\chi^2$/NDF: 41.6/45


asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
100
110
120
130
140
150
Right In: 1158.134+/-0.312 χ²/NDF: 569144.8/15
Left Out: 1216.363+/-0.413 χ²/NDF:309904.7/5
Right Out: 1212.347+/-0.322 χ²/NDF: 397938.1/17
Left In: 1211.102+/-0.380 χ²/NDF:307796.2/5
Left: 1213.518+/-0.280 χ²/NDF: 617788.9/11
Right: 1184.394+/-0.224 χ²/NDF: 981708.9/33
In: 1179.450+/-0.241 χ²/NDF:888541.0/21
Out: 1213.867+/-0.254 χ²/NDF:707901.8/23
All: 1195.783+/-0.175 χ²/NDF: 1606107.2/45




Right In: 2308.155+/-290.431 $\chi^2$/NDF: 7.8/15

Left Out: 1593.843+/-368.931 $\chi^2$/NDF:3.8/5

Right Out: 2025.627+/-289.797 $\chi^2$/NDF: 11.9/17

Left In: 1917.511+/-341.479 $\chi^2$/NDF:8.5/5

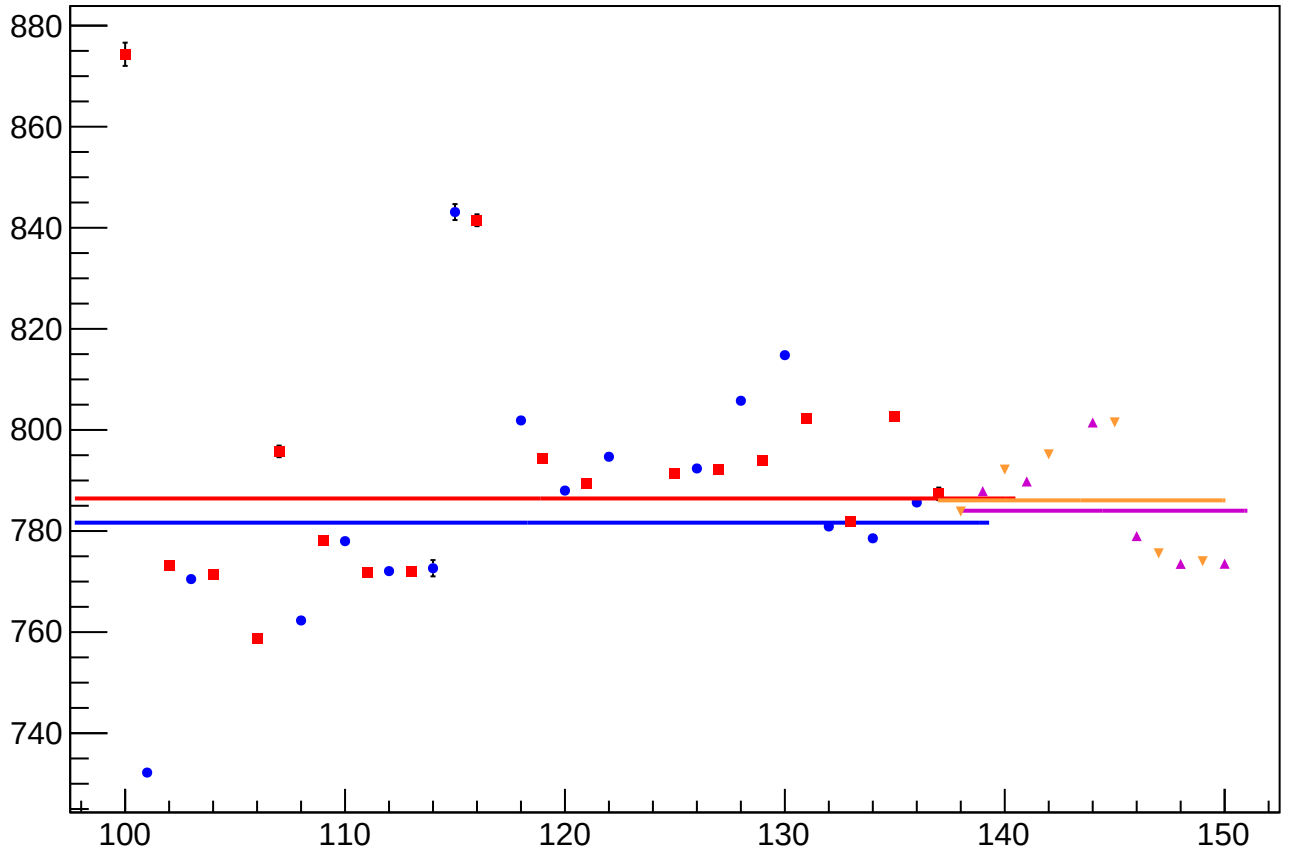
Left: 1768.166+/-250.606 $\chi^2$/NDF: 12.7/11

Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2144.186+/-221.235 $\chi^2$/NDF:17.0/21

Out: 1860.868+/-227.896 $\chi^2$/NDF:16.6/23

All: 2006.727+/-158.740 $\chi^2$/NDF: 34.4/45




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 786.068+/-0.261 $\chi^2$/NDF:1536.1/5

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 784.020+/-0.241 $\chi^2$/NDF:1706.0/5

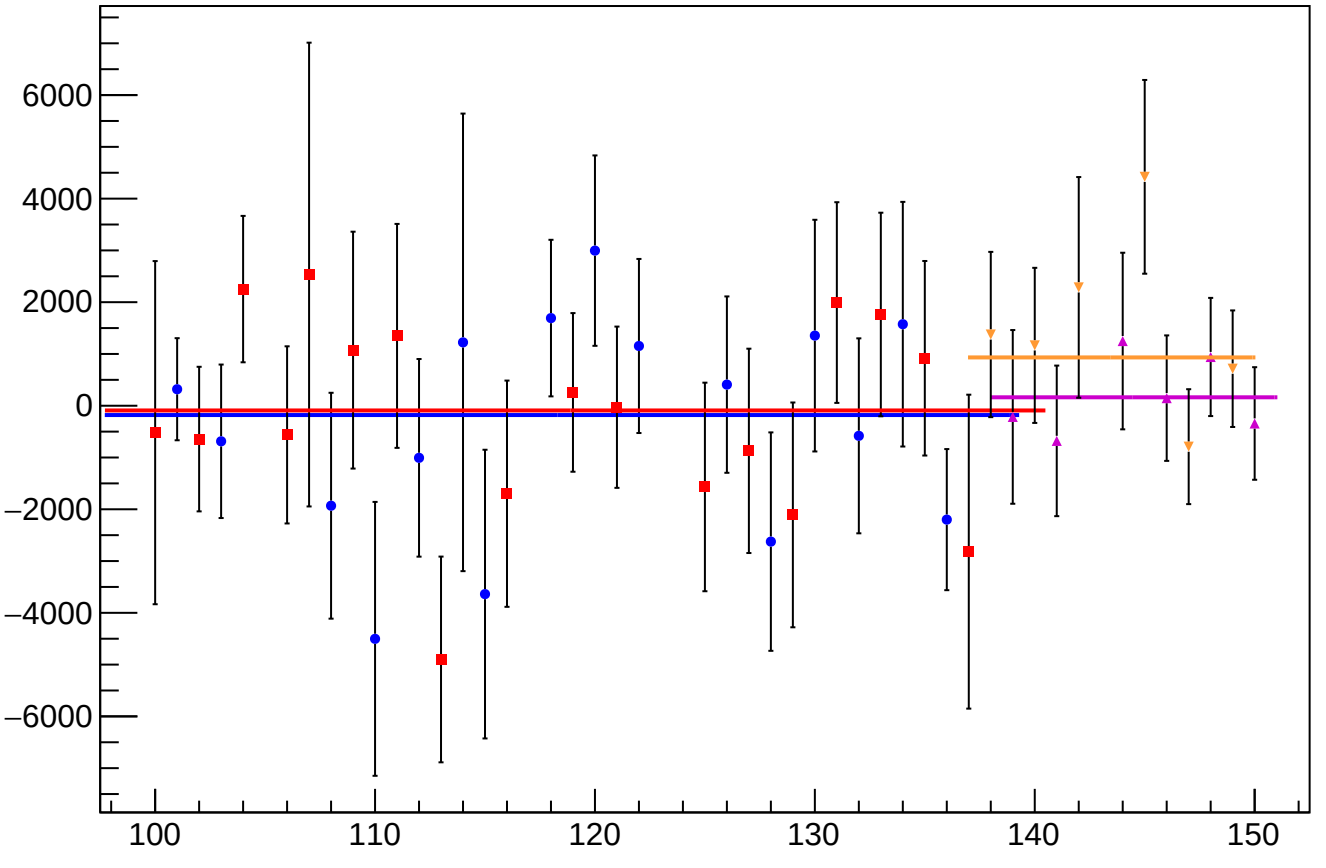
Left: 784.965+/-0.177 $\chi^2$/NDF: 3275.3/11

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 782.647+/-0.156 $\chi^2$/NDF:14080.8/21

Out: 786.300+/-0.161 $\chi^2$/NDF:8738.9/23

All: 784.419+/-0.112 $\chi^2$/NDF: 23084.3/45




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: 933.038+/-582.679 $\chi^2$/NDF:6.4/5

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 162.839+/-537.063 $\chi^2$/NDF:1.5/5

Left: 516.614+/-394.904 $\chi^2$/NDF: 8.8/11

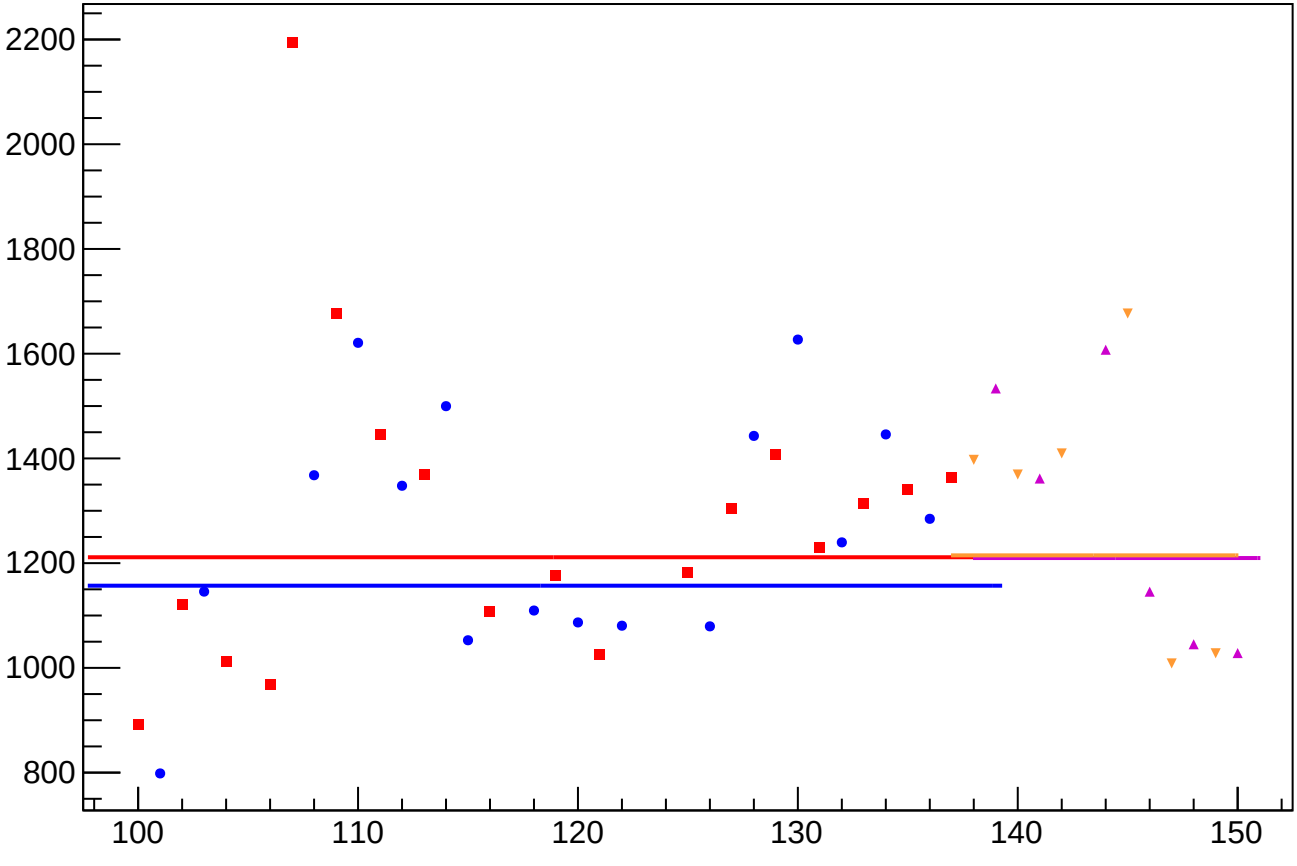
Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -41.975+/-340.716 $\chi^2$/NDF:17.1/21

Out: 296.518+/-358.523 $\chi^2$/NDF:23.5/23

All: 118.657+/-246.978 $\chi^2$/NDF: 41.1/45

asym_us_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1214.879+/-0.412 $\chi^2$/NDF:310283.4/5

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1209.762+/-0.380 $\chi^2$/NDF:308137.5/5

Left: 1212.112+/-0.279 $\chi^2$/NDF: 618504.3/11

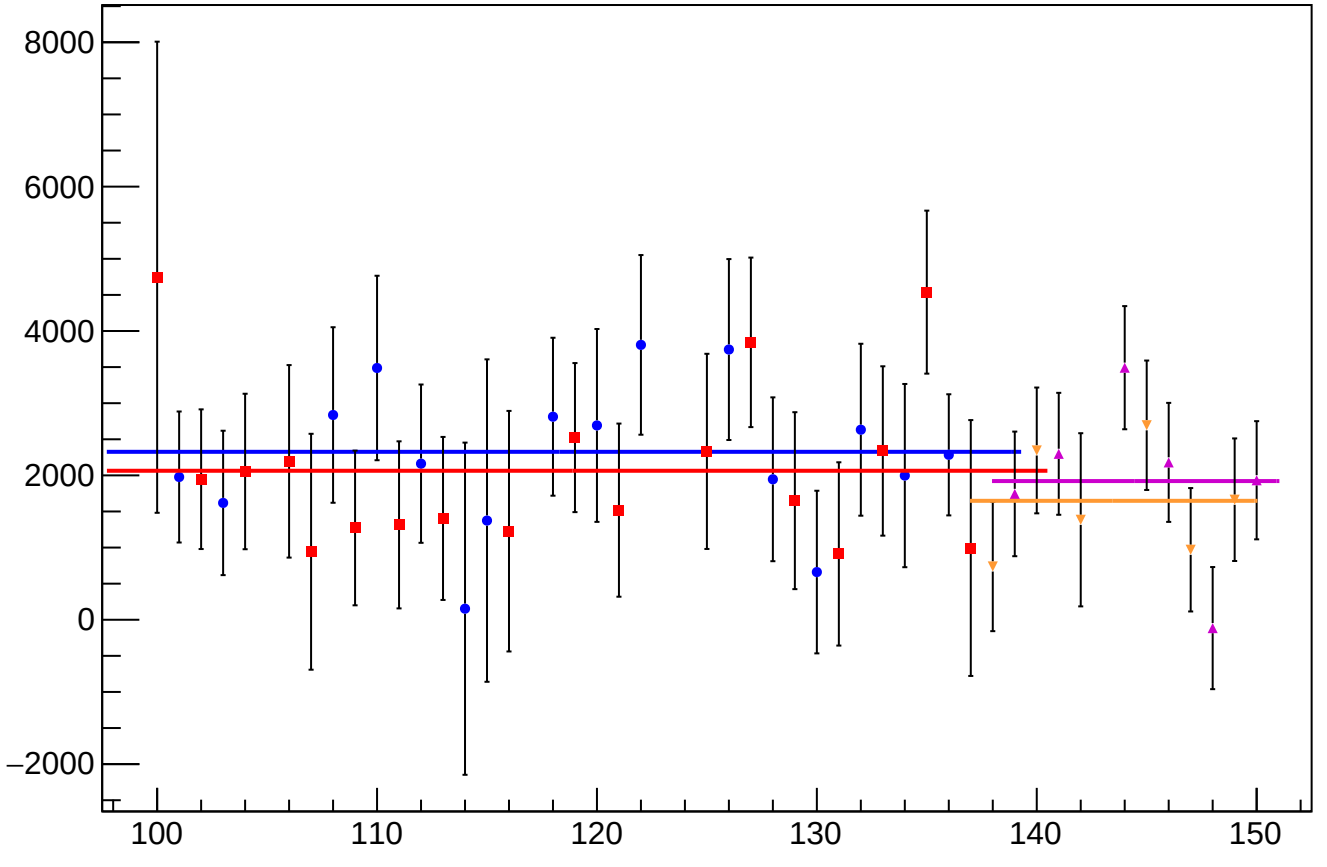
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1178.204+/-0.241 $\chi^2$/NDF:888814.0/21

Out: 1212.633+/-0.254 $\chi^2$/NDF:708045.8/23

All: 1194.542+/-0.175 $\chi^2$/NDF: 1606550.6/45

# dit_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2326.430+/-292.176 $\chi^2$/NDF: 8.1/15

Left Out: 1647.637+/-371.207 $\chi^2$/NDF:3.7/5

Right Out: 2063.976+/-291.790 $\chi^2$/NDF: 11.6/17

Left In: 1921.203+/-343.397 $\chi^2$/NDF:9.5/5

Left: 1795.050+/-252.077 $\chi^2$/NDF: 13.5/11

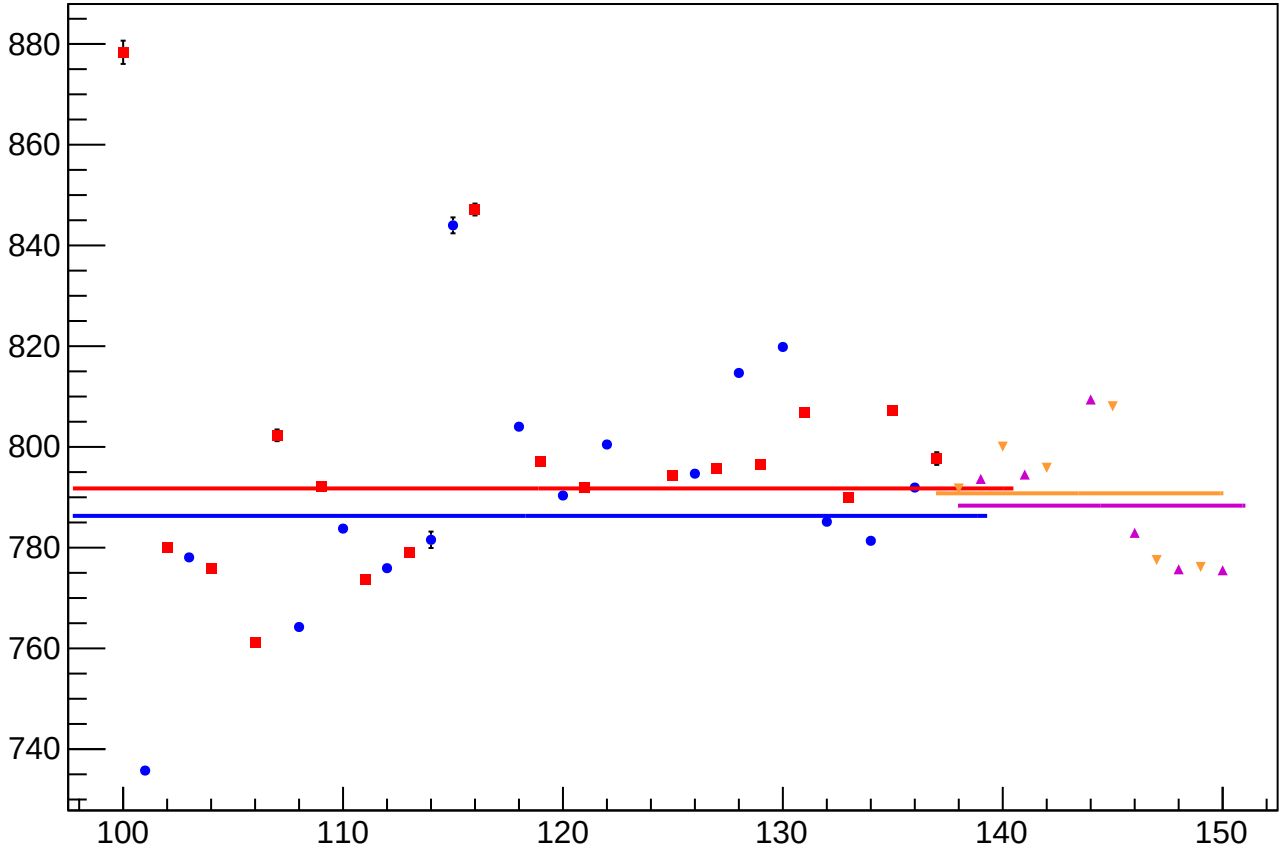
Right: 2195.030+/-206.463 $\chi^2$/NDF: 20.2/33

In: 2156.263+/-222.528 $\chi^2$/NDF:18.5/21

Out: 1904.972+/-229.402 $\chi^2$/NDF:16.1/23

All: 2034.439+/-159.726 $\chi^2$/NDF: 35.2/45

# dit_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 786.309+/-0.207 $\chi^2$/NDF: 12571.1/15

Left Out: 790.788+/-0.262 $\chi^2$/NDF:2080.4/5

Right Out: 791.756+/-0.206 $\chi^2$/NDF: 7015.1/17

Left In: 788.342+/-0.243 $\chi^2$/NDF:2426.2/5

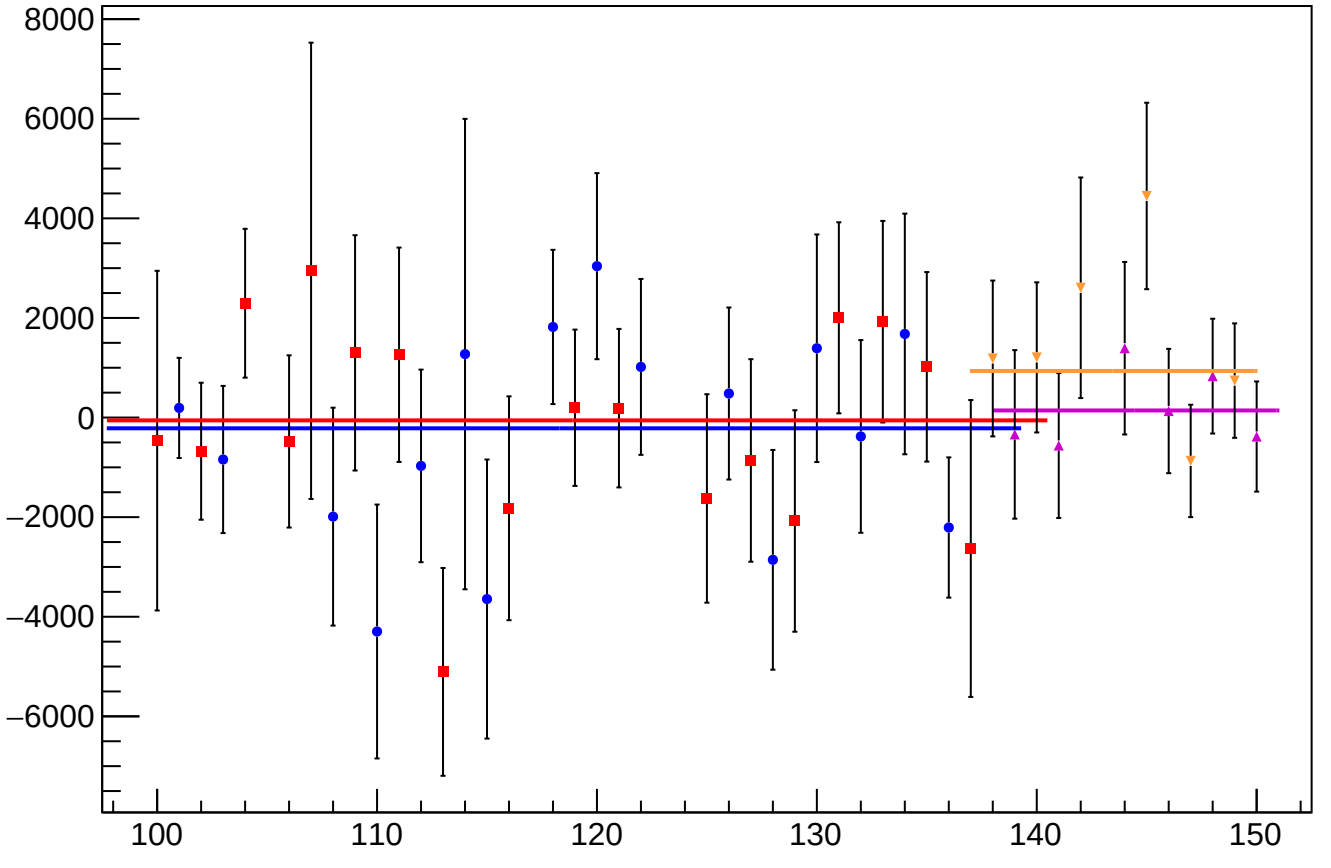
Left: 789.470+/-0.178 $\chi^2$/NDF: 4553.5/11

Right: 789.036+/-0.146 $\chi^2$/NDF: 19934.2/33

In: 787.163+/-0.157 $\chi^2$/NDF:15038.0/21

Out: 791.387+/-0.162 $\chi^2$/NDF:9103.9/23

All: 789.211+/-0.113 $\chi^2$/NDF: 24491.2/45




Right In: -216.184+/-449.537 $\chi^2$/NDF: 15.3/15

Left Out: 935.414+/-589.191 $\chi^2$/NDF:6.7/5

Right Out: -56.784+/-463.978 $\chi^2$/NDF: 15.1/17

Left In: 142.379+/-545.039 $\chi^2$/NDF:1.4/5

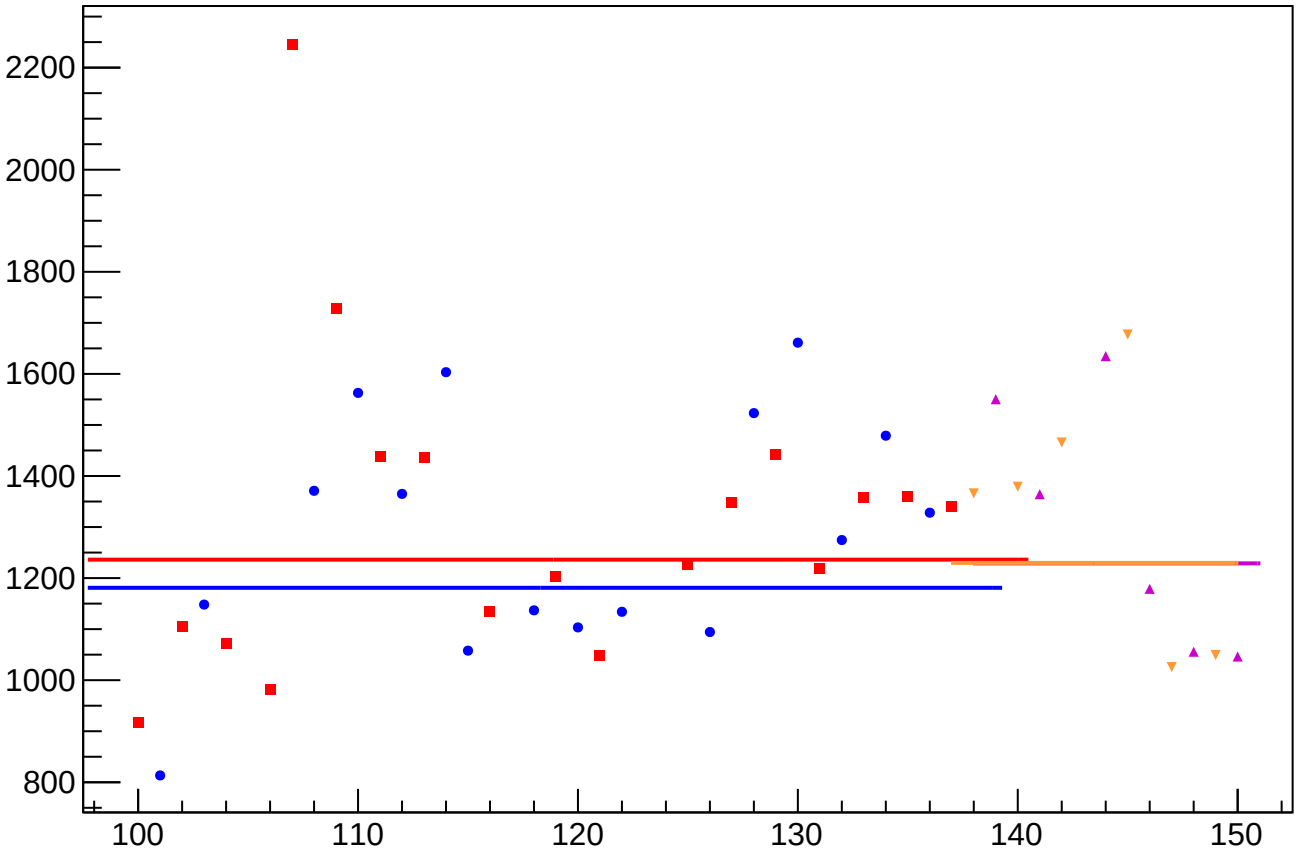
Left: 508.073+/-400.100 $\chi^2$/NDF: 9.1/11

Right: -139.003+/-322.855 $\chi^2$/NDF: 30.5/33

In: -71.018+/-346.798 $\chi^2$/NDF:17.0/21

Out: 322.995+/-364.521 $\chi^2$/NDF:23.6/23

All: 116.178+/-251.255 $\chi^2$/NDF: 41.2/45




Right In: 1180.998+/-0.318 $\chi^2$/NDF: 571107.8/15

Left Out: 1229.792+/-0.417 $\chi^2$/NDF:286486.5/5

Right Out: 1236.134+/-0.328 $\chi^2$/NDF: 397242.2/17

Left In: 1228.849+/-0.385 $\chi^2$/NDF:302087.8/5

Left: 1229.284+/-0.283 $\chi^2$/NDF: 588577.0/11

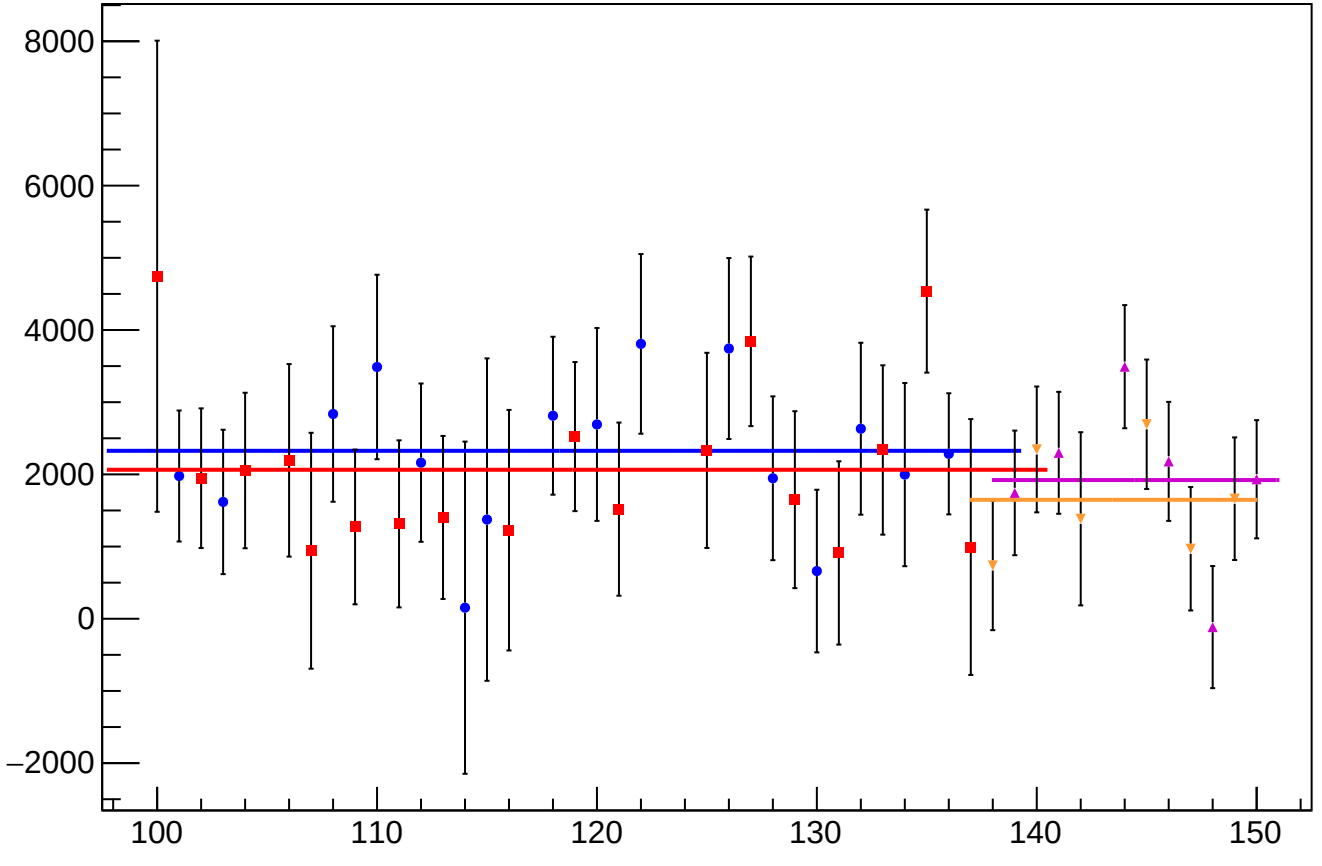
Right: 1207.695+/-0.228 $\chi^2$/NDF: 982917.9/33

In: 1200.370+/-0.245 $\chi^2$/NDF:882369.9/21

Out: 1233.707+/-0.258 $\chi^2$/NDF:683871.8/23

All: 1216.208+/-0.178 $\chi^2$/NDF: 1575021.6/45

# eigen_dit_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2326.429+/-292.176 $\chi^2$/NDF: 8.1/15

Left Out: 1647.638+/-371.207 $\chi^2$/NDF:3.7/5

Right Out: 2063.975+/-291.790 $\chi^2$/NDF: 11.6/17

Left In: 1921.203+/-343.397 $\chi^2$/NDF:9.5/5

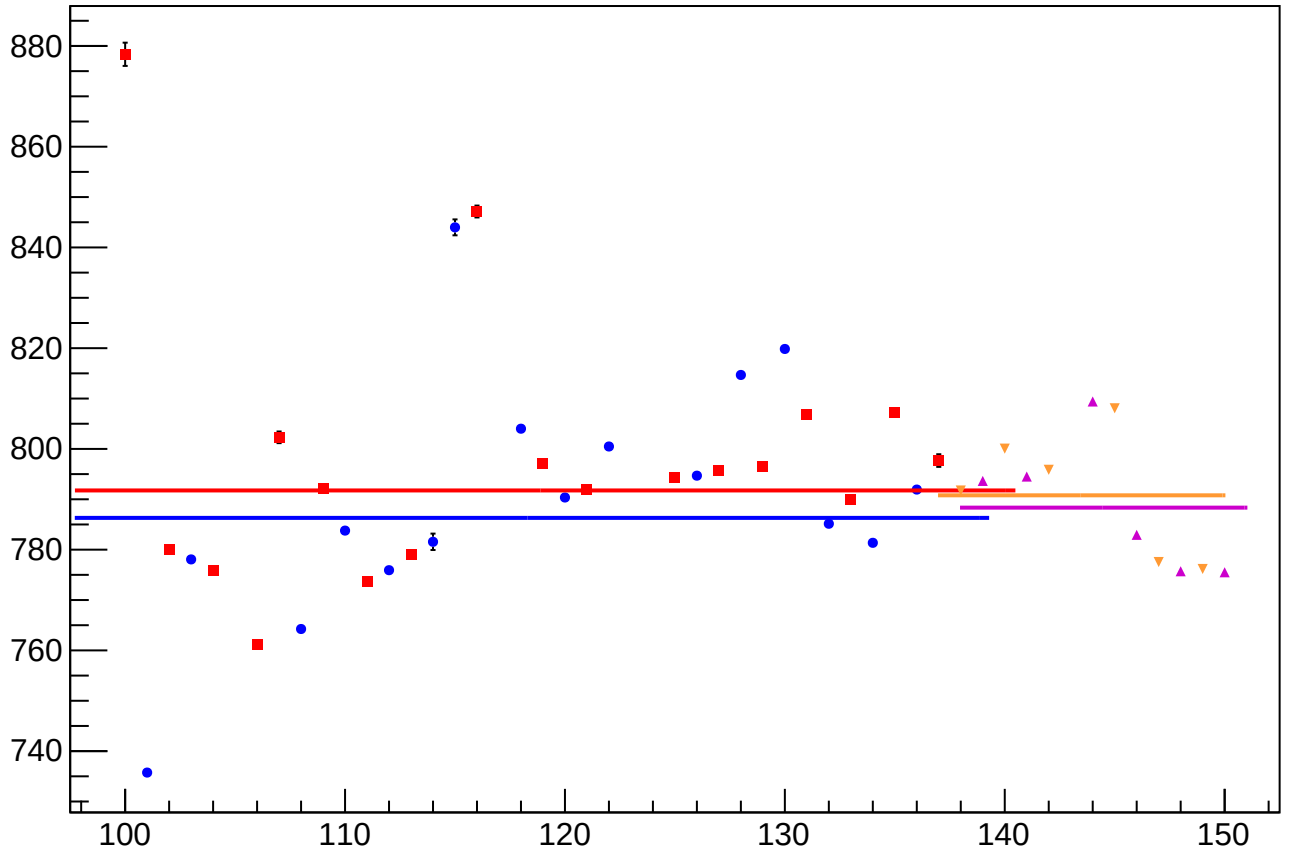
Left: 1795.051+/-252.077 $\chi^2$/NDF: 13.5/11

Right: 2195.029+/-206.463 $\chi^2$/NDF: 20.2/33

In: 2156.263+/-222.528 $\chi^2$/NDF:18.5/21

Out: 1904.972+/-229.402 $\chi^2$/NDF:16.1/23

All: 2034.439+/-159.726 $\chi^2$/NDF: 35.2/45




Right In: 786.309+/-0.207 $\chi^2$/NDF: 12571.0/15

Left Out: 790.788+/-0.262 $\chi^2$/NDF:2080.4/5

Right Out: 791.756+/-0.206 $\chi^2$/NDF: 7015.1/17

Left In: 788.342+/-0.243 $\chi^2$/NDF:2426.2/5

Left: 789.470+/-0.178 $\chi^2$/NDF: 4553.5/11

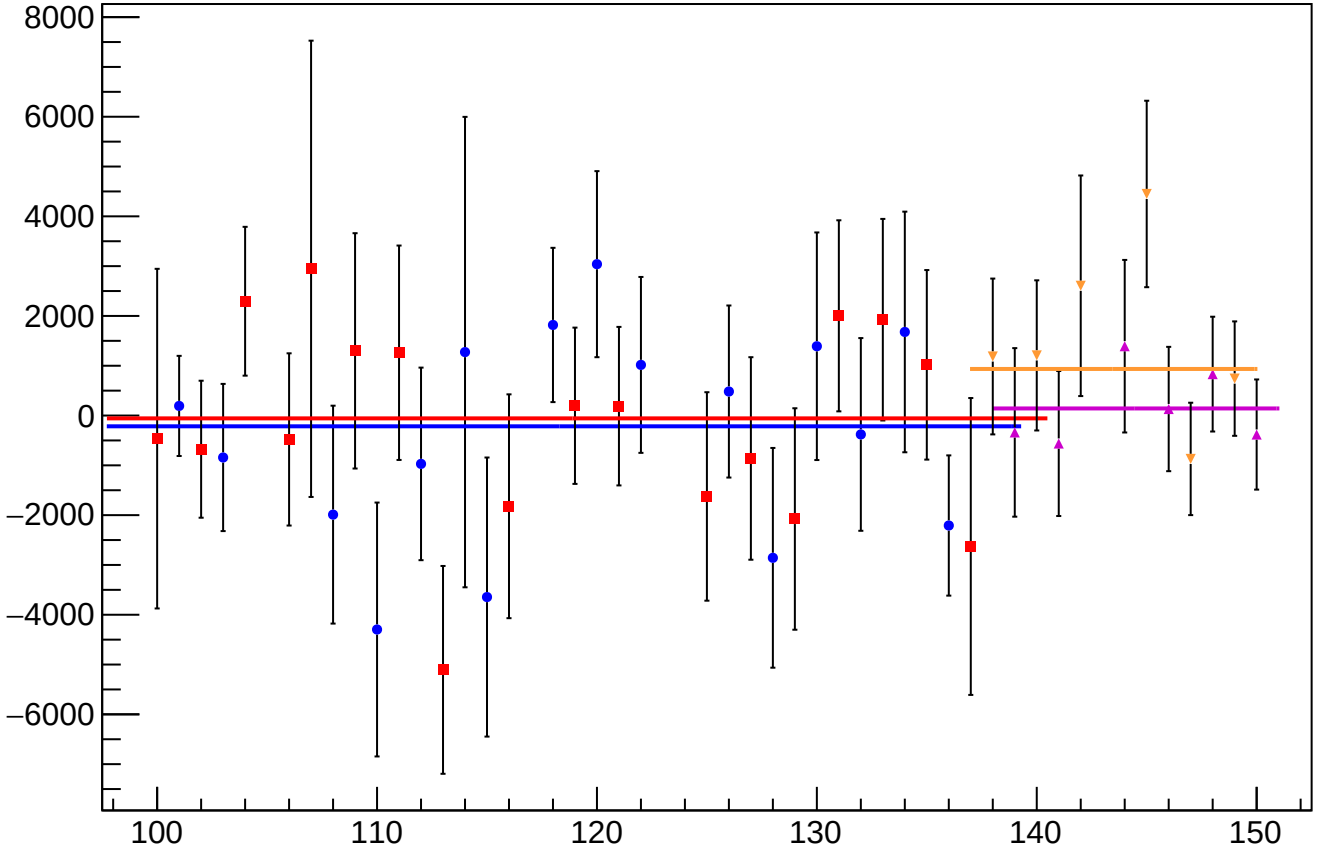
Right: 789.036+/-0.146 $\chi^2$/NDF: 19934.1/33

In: 787.163+/-0.157 $\chi^2$/NDF:15037.9/21

Out: 791.386+/-0.162 $\chi^2$/NDF:9103.9/23

All: 789.210+/-0.113 $\chi^2$/NDF: 24491.1/45

asym_us_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -216.183+/-449.536 $\chi^2$/NDF: 15.3/15

Left Out: 935.412+/-589.192 $\chi^2$/NDF:6.7/5

Right Out: -56.784+/-463.977 $\chi^2$/NDF: 15.1/17

Left In: 142.380+/-545.040 $\chi^2$/NDF:1.4/5

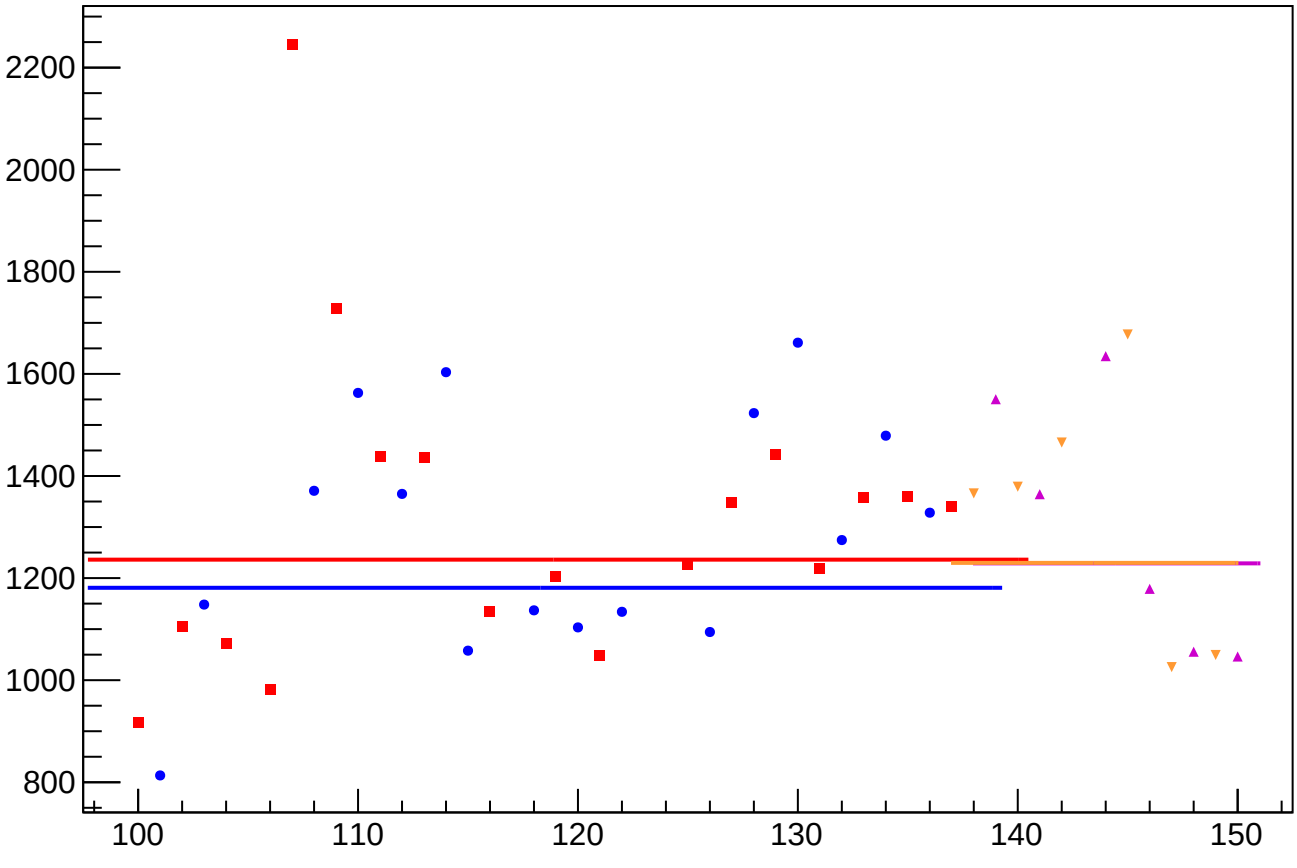
Left: 508.073+/-400.101 $\chi^2$/NDF: 9.1/11

Right: -139.003+/-322.855 $\chi^2$/NDF: 30.5/33

In: -71.018+/-346.798 $\chi^2$/NDF:17.0/21

Out: 322.993+/-364.521 $\chi^2$/NDF:23.6/23

All: 116.177+/-251.255 $\chi^2$/NDF: 41.2/45




Right In: 1180.995+/-0.318 $\chi^2$/NDF: 571105.7/15

Left Out: 1229.794+/-0.417 $\chi^2$/NDF:286487.8/5

Right Out: 1236.131+/-0.328 $\chi^2$/NDF: 397240.7/17

Left In: 1228.851+/-0.385 $\chi^2$/NDF:302088.6/5

Left: 1229.286+/-0.283 $\chi^2$/NDF: 588579.2/11

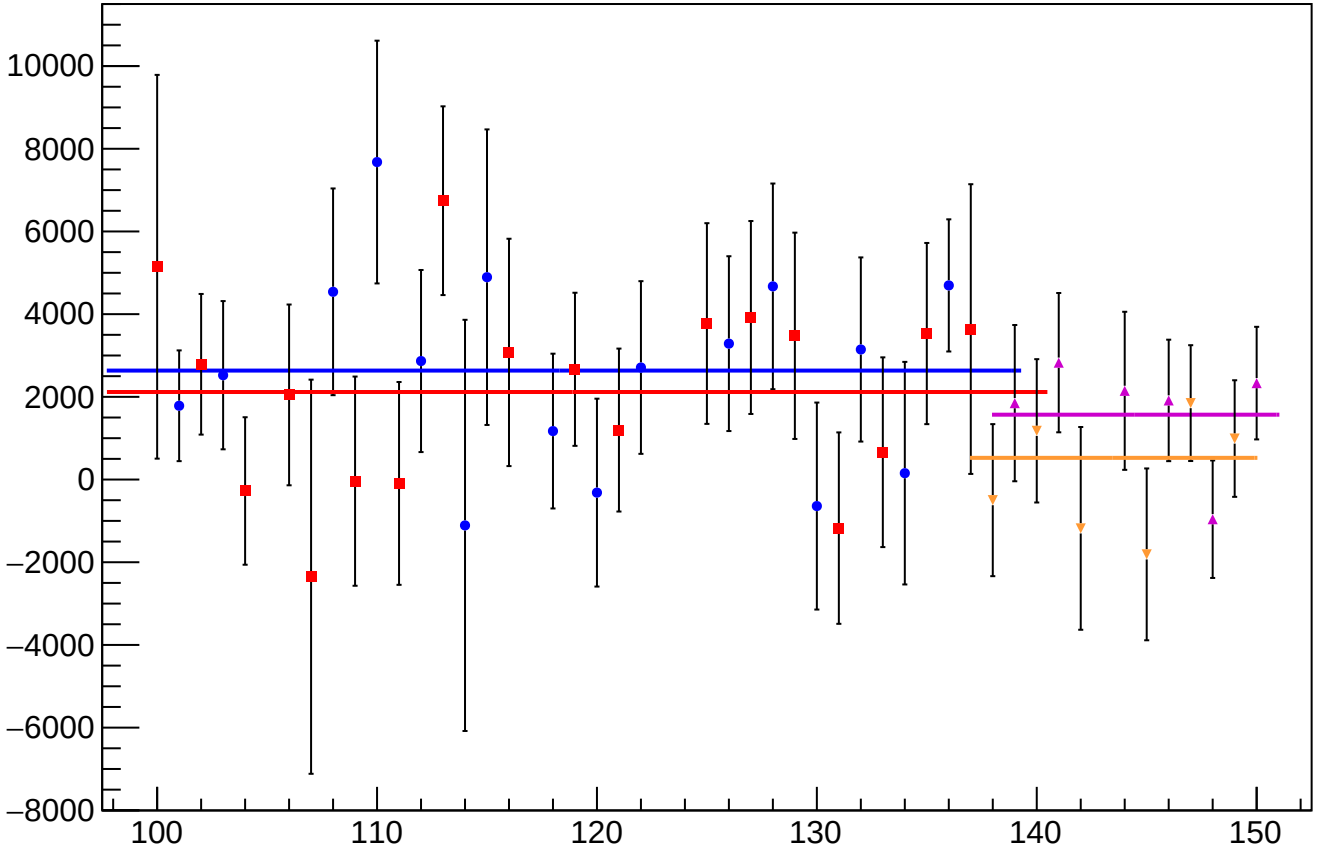
Right: 1207.692+/-0.228 $\chi^2$/NDF: 982914.1/33

In: 1200.370+/-0.245 $\chi^2$/NDF:882370.7/21

Out: 1233.705+/-0.258 $\chi^2$/NDF:683871.3/23

All: 1216.207+/-0.178 $\chi^2$/NDF: 1575021.8/45

# asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2635.397+/-538.034 $\chi^2$/NDF: 12.3/15

Left Out: 524.699+/-700.241 $\chi^2$/NDF:3.2/5

Right Out: 2117.162+/-547.483 $\chi^2$/NDF: 13.7/17

Left In: 1568.537+/-644.924 $\chi^2$/NDF:4.2/5

Left: 1089.471+/-474.382 $\chi^2$/NDF: 8.6/11

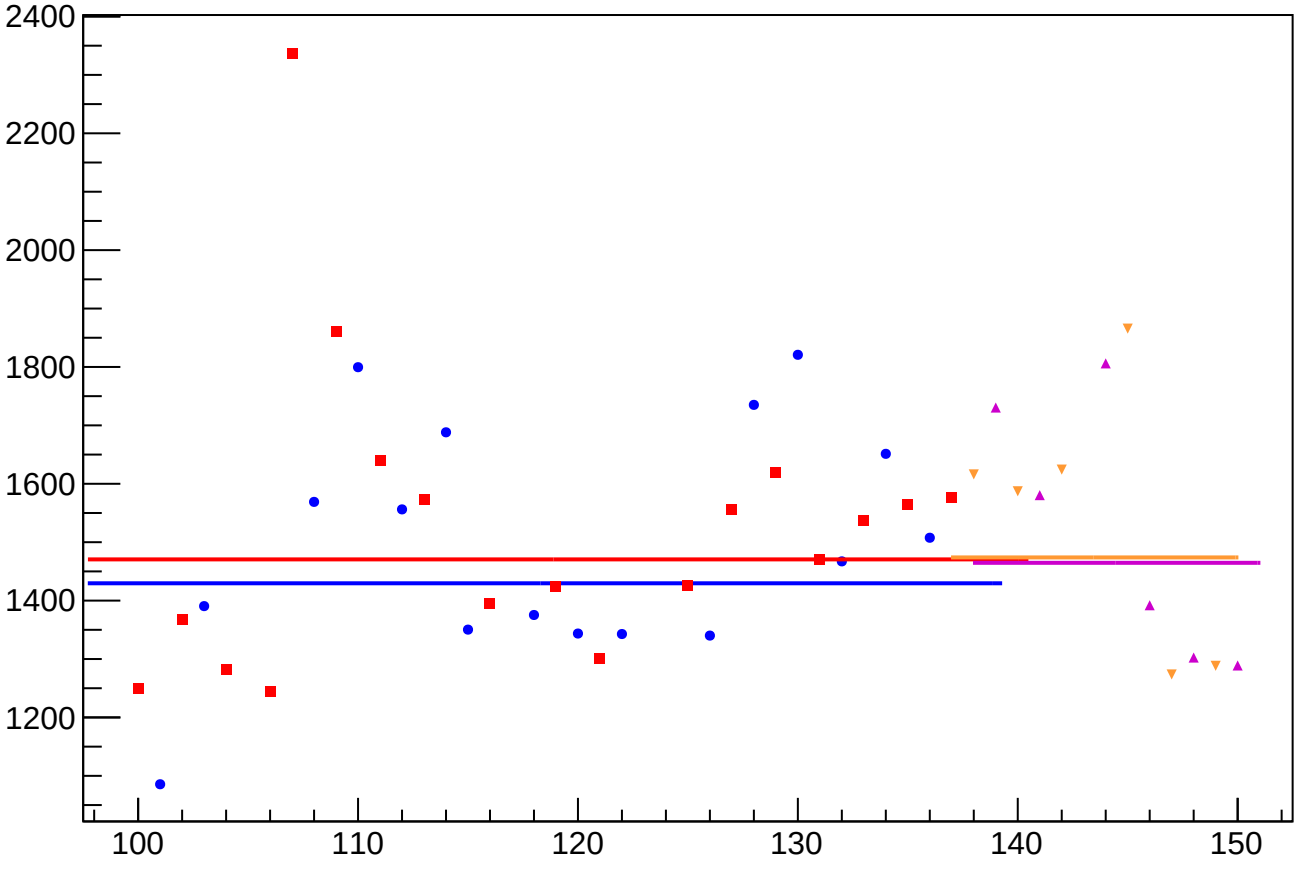
Right: 2380.790+/-383.745 $\chi^2$/NDF: 26.4/33

In: 2197.585+/-413.141 $\chi^2$/NDF:18.1/21

Out: 1513.015+/-431.304 $\chi^2$/NDF:20.1/23

All: 1870.018+/-298.349 $\chi^2$/NDF: 39.5/45

# asym_us_avg_rms vs Slug, Sign Corrected




Right In: 1429.654+/-0.380 $\chi^2$/NDF: 293388.5/15

Left Out: 1473.925+/-0.495 $\chi^2$/NDF:174630.1/5

Right Out: 1470.565+/-0.387 $\chi^2$/NDF: 218067.5/17

Left In: 1464.692+/-0.456 $\chi^2$/NDF:177120.5/5

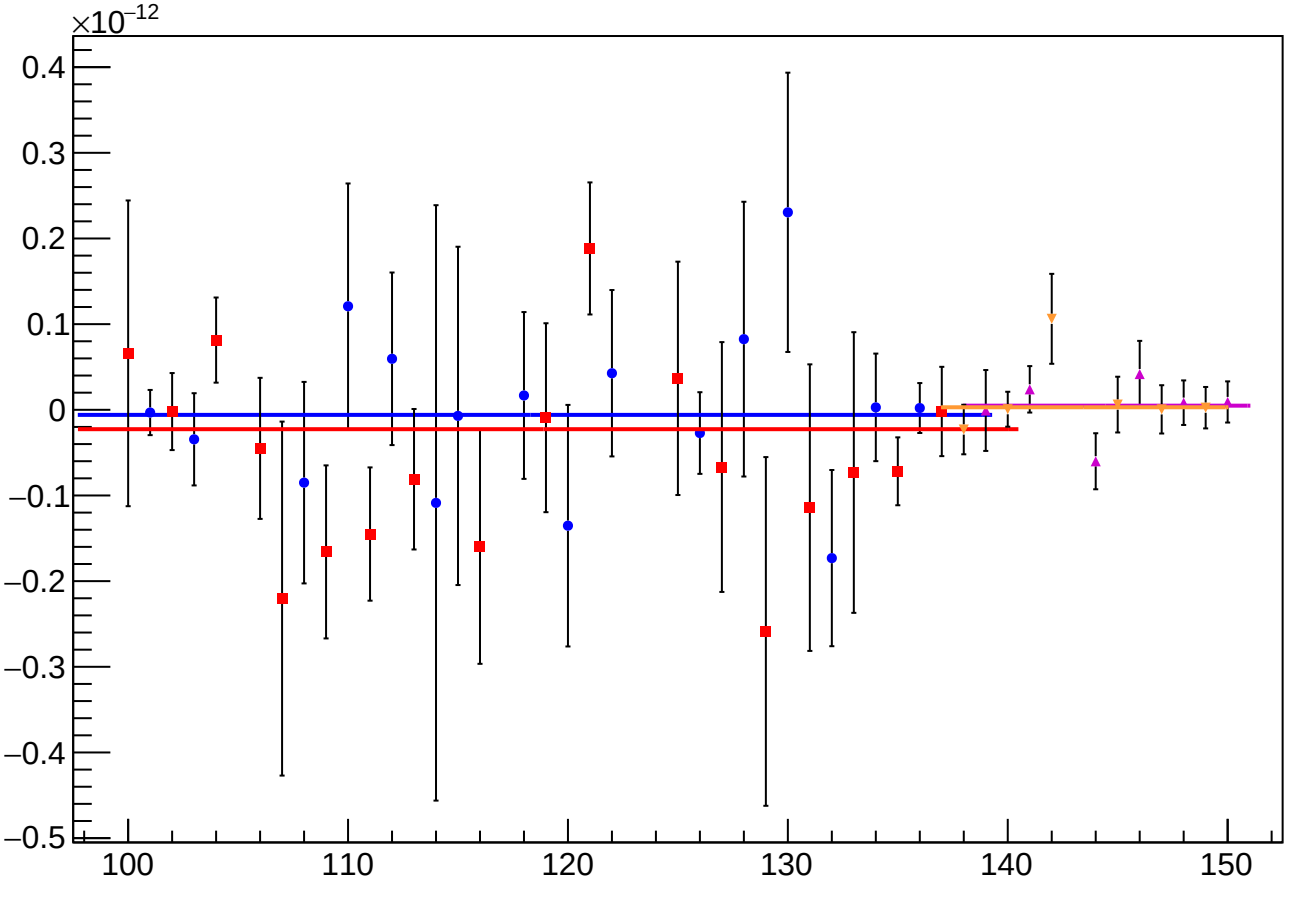
Left: 1468.930+/-0.335 $\chi^2$/NDF: 351938.8/11

Right: 1449.753+/-0.271 $\chi^2$/NDF: 517137.1/33

In: 1444.033+/-0.292 $\chi^2$/NDF:473989.8/21

Out: 1471.840+/-0.305 $\chi^2$/NDF:392726.2/23

All: 1457.338+/-0.211 $\chi^2$/NDF: 871051.3/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.7/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.4/5

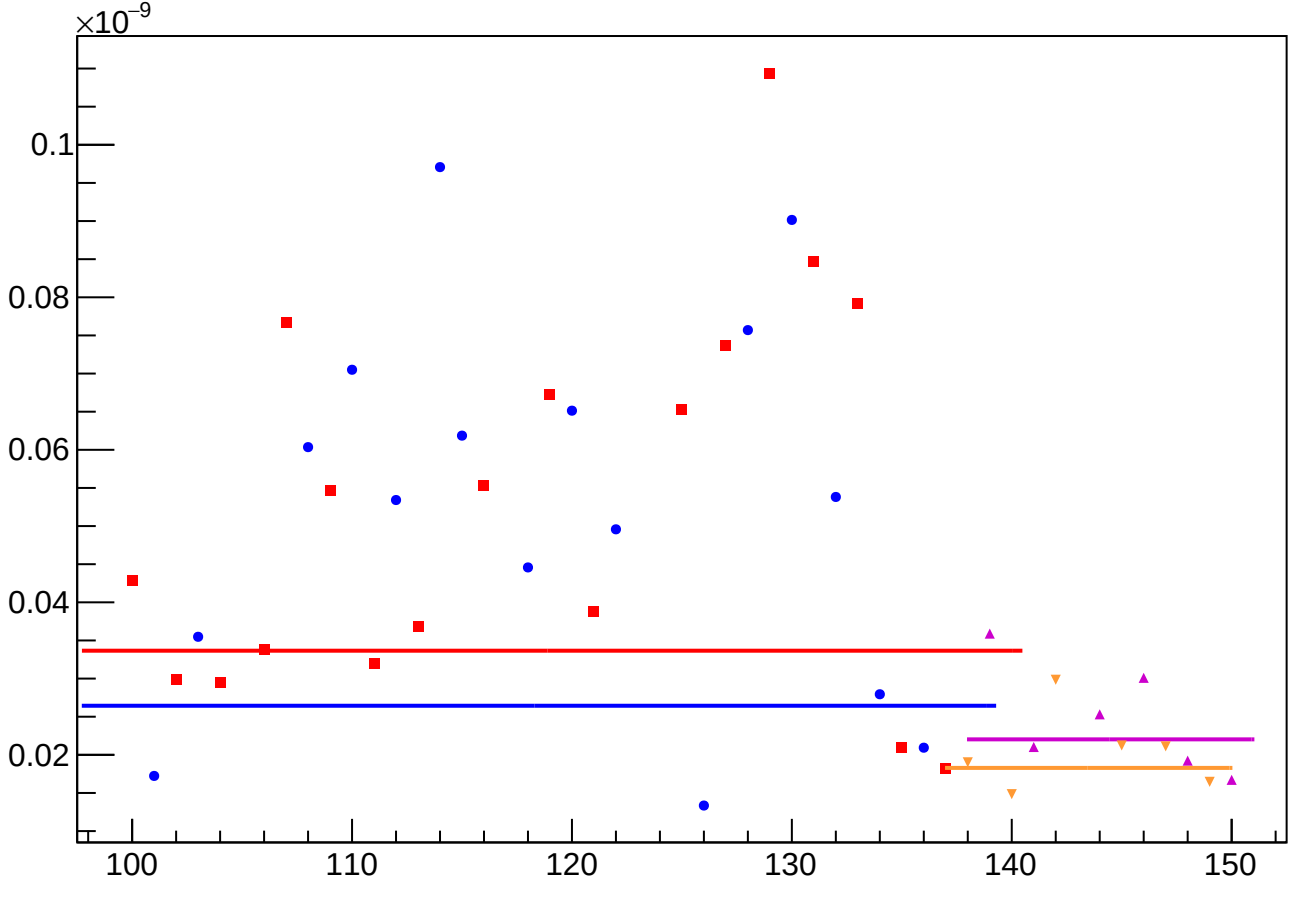
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.1/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:14.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 43.6/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2138464.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:203193.6/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1711887.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:402999.4/5

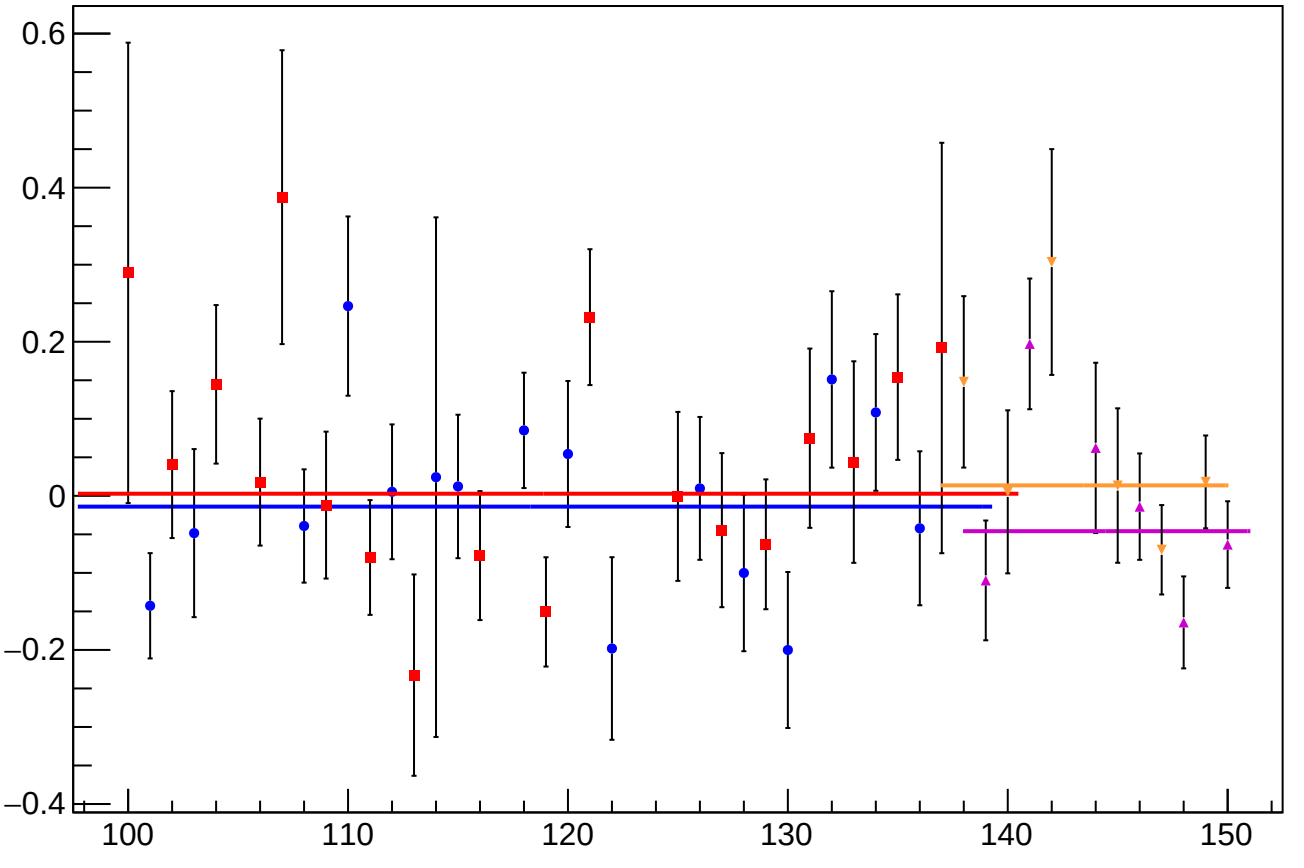
Left: 0.000+/-0.000 $\chi^2$/NDF: 706995.5/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 4035968.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:2643395.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2946749.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5606623.0/45




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: 0.014+/-0.034 $\chi^2$/NDF:7.5/5

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.046+/-0.029 $\chi^2$/NDF:14.1/5

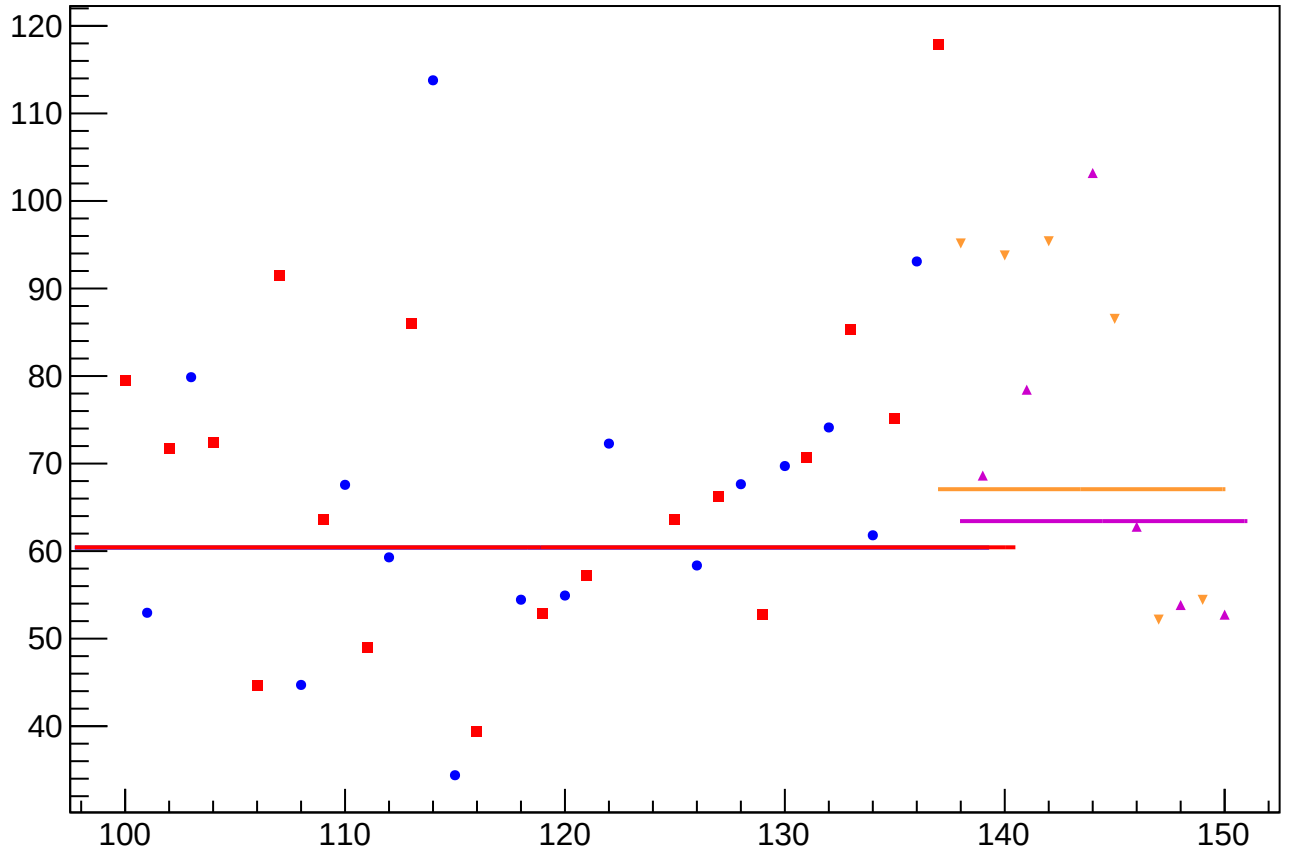
Left: -0.020+/-0.022 $\chi^2$/NDF: 23.3/11

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.027+/-0.018 $\chi^2$/NDF:36.2/21

Out: 0.006+/-0.019 $\chi^2$/NDF:35.3/23

All: -0.011+/-0.013 $\chi^2$/NDF: 73.0/45




Right In: 60.399+/-0.017 $\chi^2$/NDF: 703157.1/15

Left Out: 67.072+/-0.024 $\chi^2$/NDF:624725.9/5

Right Out: 60.434+/-0.017 $\chi^2$/NDF: 711093.4/17

Left In: 63.426+/-0.020 $\chi^2$/NDF:454497.3/5

Left: 64.982+/-0.015 $\chi^2$/NDF: 1092765.1/11

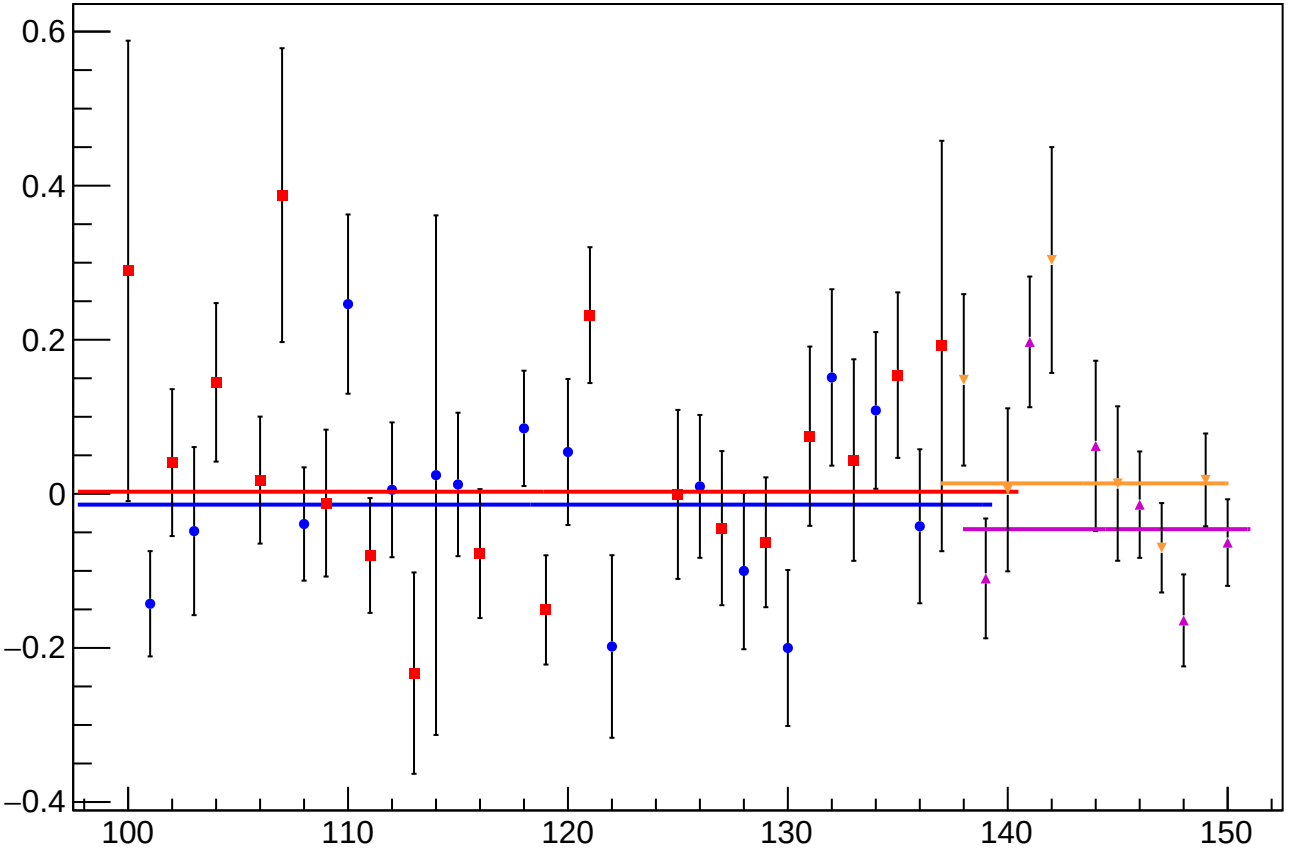
Right: 60.417+/-0.012 $\chi^2$/NDF: 1414252.6/33

In: 61.623+/-0.013 $\chi^2$/NDF:1170668.5/21

Out: 62.656+/-0.014 $\chi^2$/NDF:1387920.3/23

All: 62.113+/-0.009 $\chi^2$/NDF: 2561568.0/45

asym_us_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: 0.014+/-0.034 $\chi^2$/NDF:7.5/5

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.046+/-0.029 $\chi^2$/NDF:14.1/5

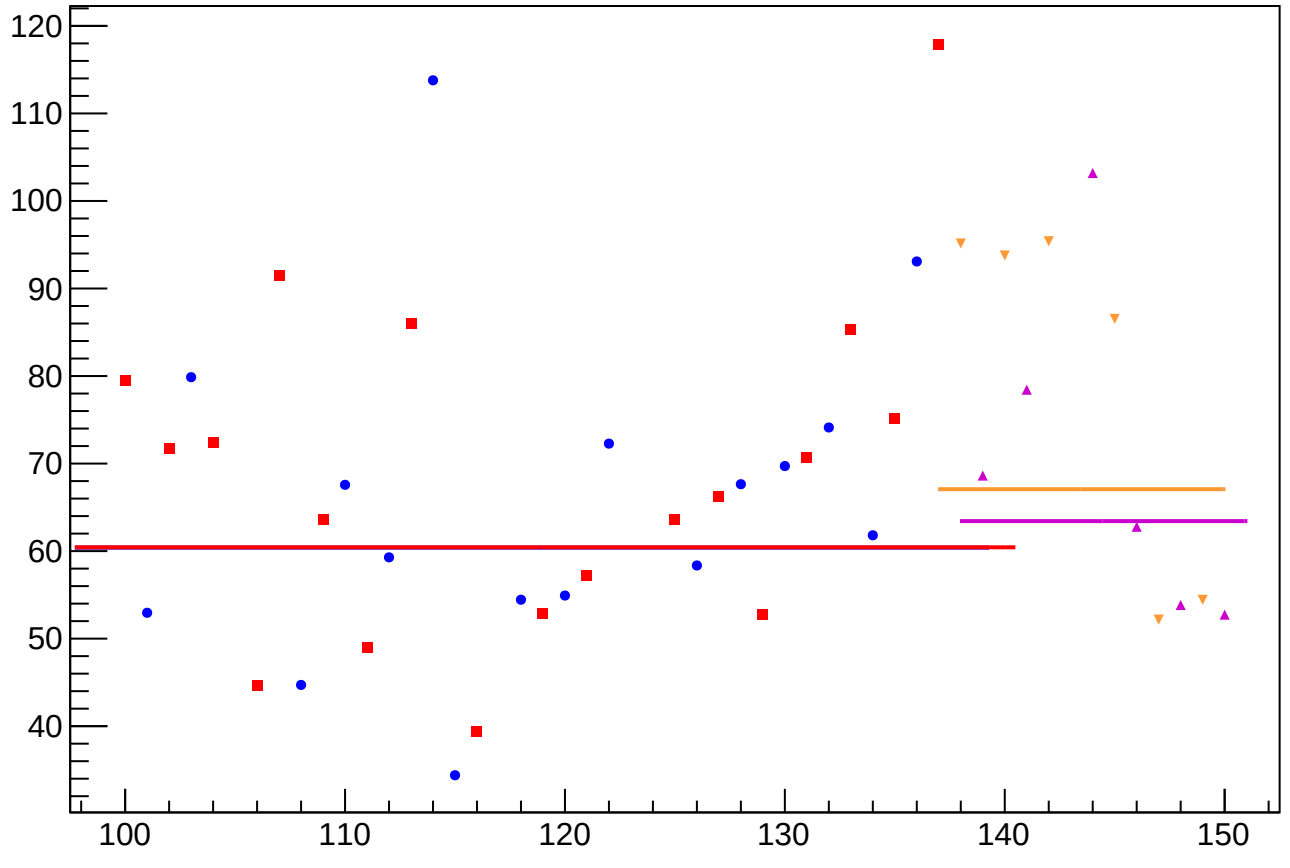
Left: -0.020+/-0.022 $\chi^2$/NDF: 23.3/11

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.027+/-0.018 $\chi^2$/NDF:36.2/21

Out: 0.006+/-0.019 $\chi^2$/NDF:35.3/23

All: -0.011+/-0.013 $\chi^2$/NDF: 73.0/45




Right In: 60.399+/-0.017 $\chi^2$/NDF: 703157.1/15

Left Out: 67.072+/-0.024 $\chi^2$/NDF:624725.9/5

Right Out: 60.434+/-0.017 $\chi^2$/NDF: 711093.4/17

Left In: 63.426+/-0.020 $\chi^2$/NDF:454497.3/5

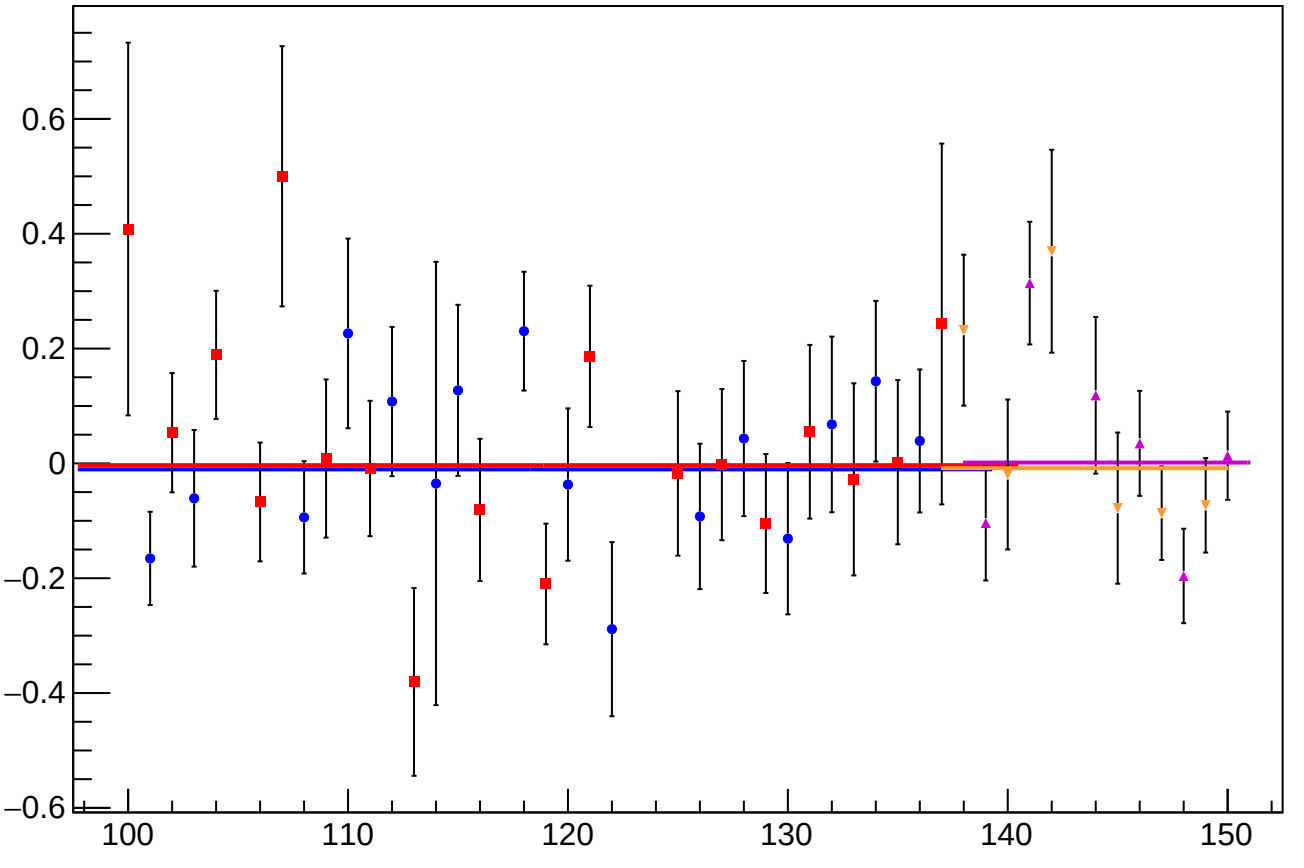
Left: 64.982+/-0.015 $\chi^2$/NDF: 1092765.1/11

Right: 60.417+/-0.012 $\chi^2$/NDF: 1414252.6/33

In: 61.623+/-0.013 $\chi^2$/NDF:1170668.5/21

Out: 62.656+/-0.014 $\chi^2$/NDF:1387920.3/23

All: 62.113+/-0.009 $\chi^2$/NDF: 2561568.0/45




Right In: -0.010+/-0.032 $\chi^2$/NDF: 20.2/15

Left Out: -0.008+/-0.045 $\chi^2$/NDF:9.7/5

Right Out: -0.003+/-0.032 $\chi^2$/NDF: 23.7/17

Left In: 0.001+/-0.038 $\chi^2$/NDF:16.3/5

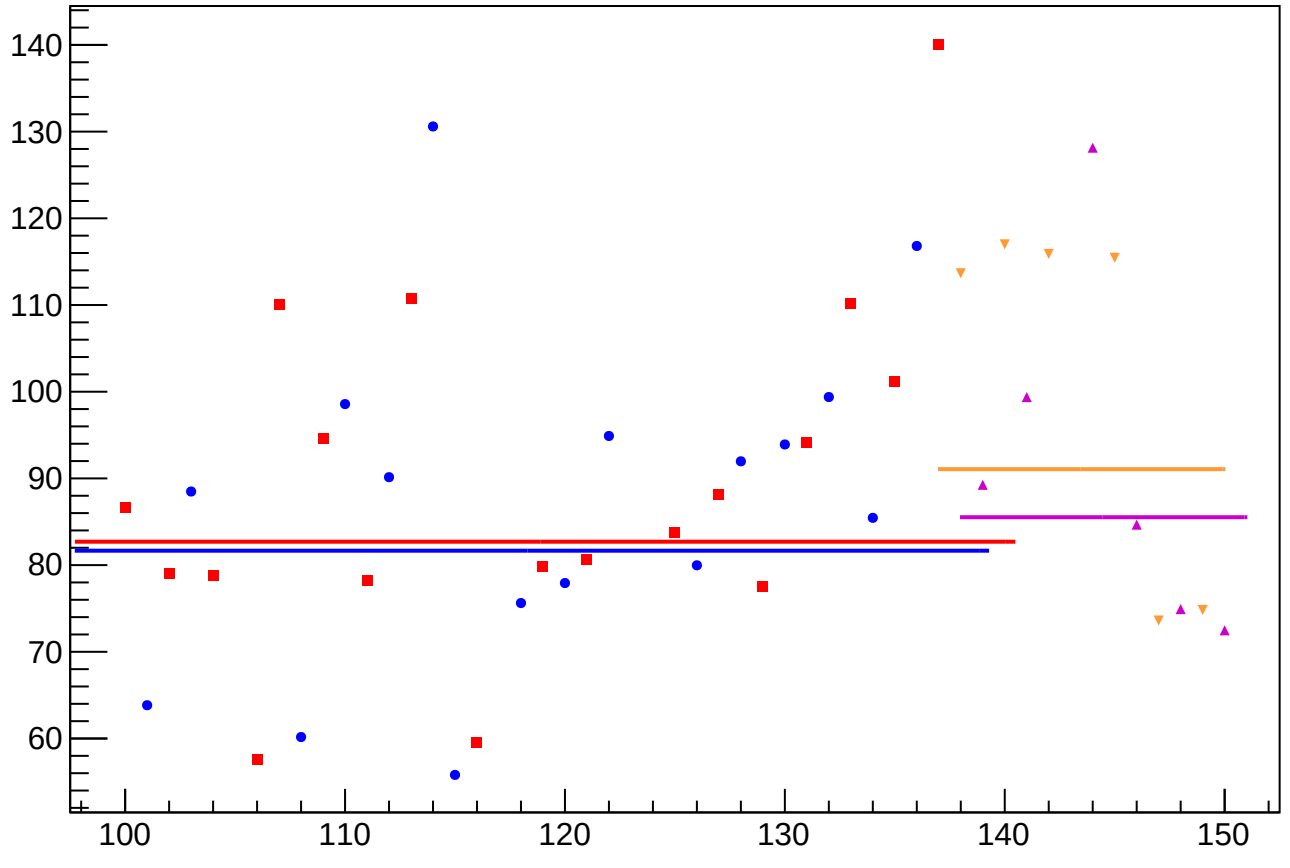
Left: -0.003+/-0.029 $\chi^2$/NDF: 26.1/11

Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: -0.006+/-0.024 $\chi^2$/NDF:36.5/21

Out: -0.005+/-0.026 $\chi^2$/NDF:33.4/23

All: -0.005+/-0.018 $\chi^2$/NDF: 70.0/45




Right In: 81.664+/-0.022 $\chi^2$/NDF: 561848.8/15

Left Out: 91.068+/-0.031 $\chi^2$/NDF:415894.0/5

Right Out: 82.701+/-0.022 $\chi^2$/NDF: 473065.7/17

Left In: 85.524+/-0.027 $\chi^2$/NDF:322575.9/5

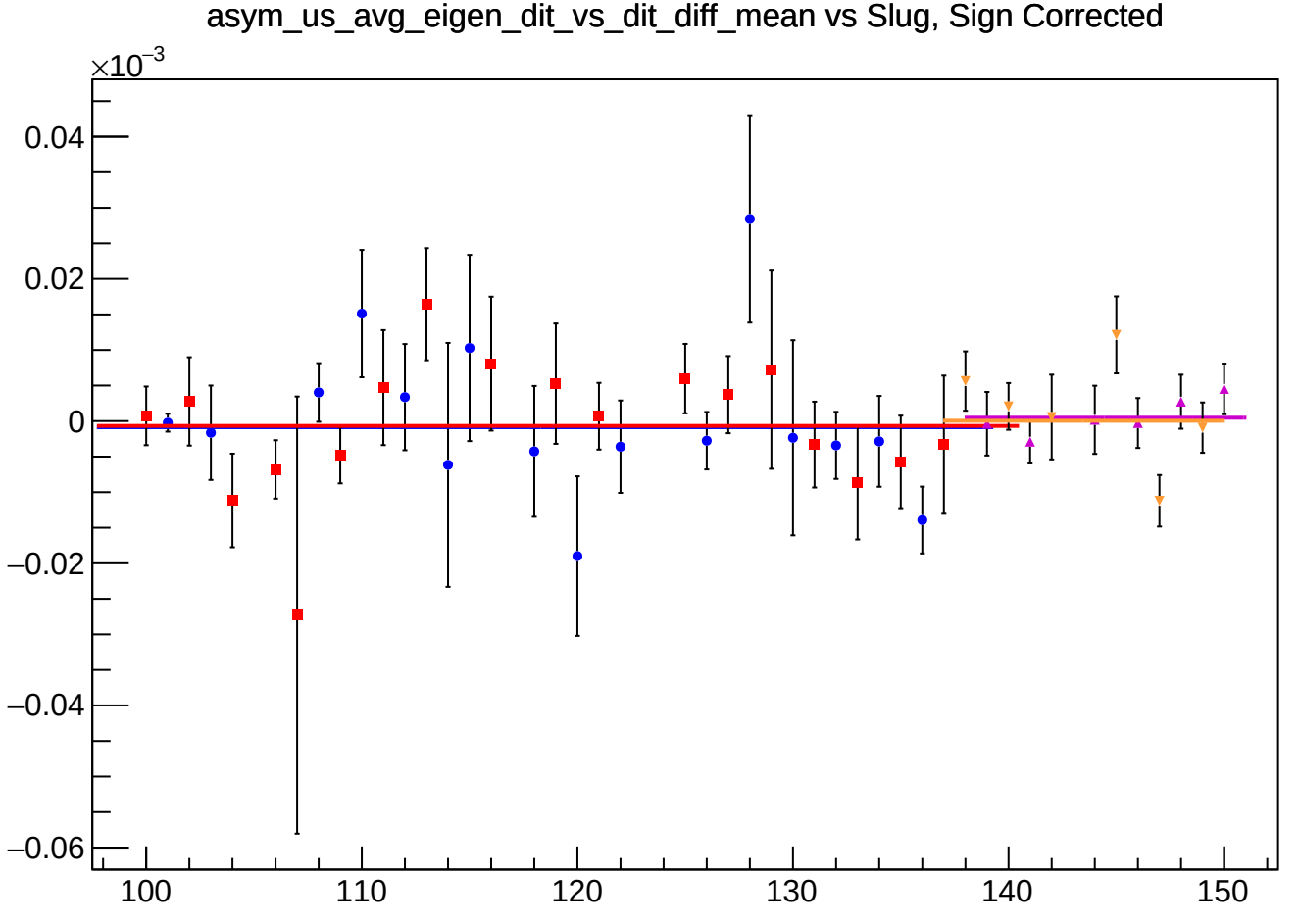
Left: 87.890+/-0.021 $\chi^2$/NDF: 756253.0/11

Right: 82.180+/-0.016 $\chi^2$/NDF: 1035987.5/33

In: 83.222+/-0.017 $\chi^2$/NDF:896468.9/21

Out: 85.521+/-0.018 $\chi^2$/NDF:935803.4/23

All: 84.306+/-0.013 $\chi^2$/NDF: 1840641.1/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:16.9/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/5

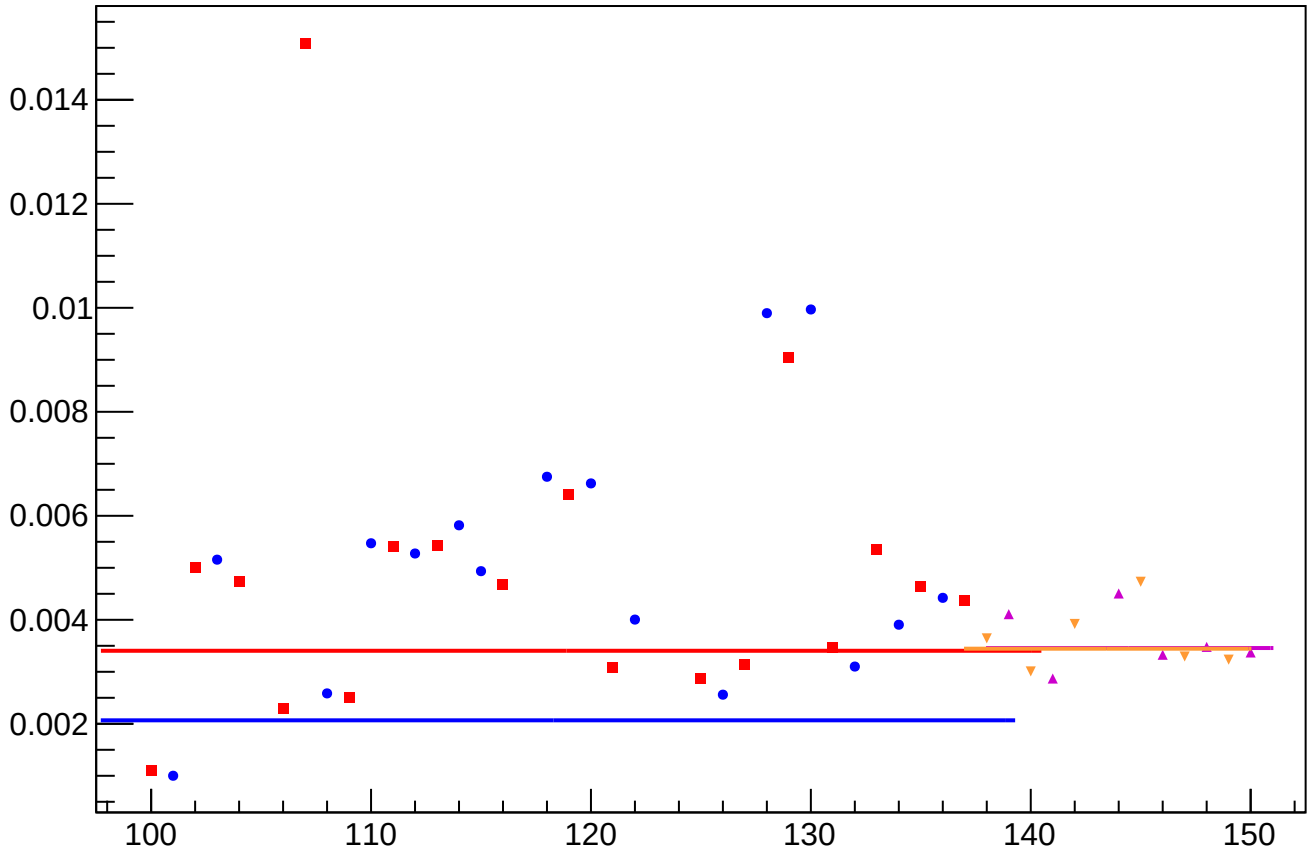
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.9/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:24.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 60.1/45




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5813338.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:176257.3/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2491305.2/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:215569.2/5

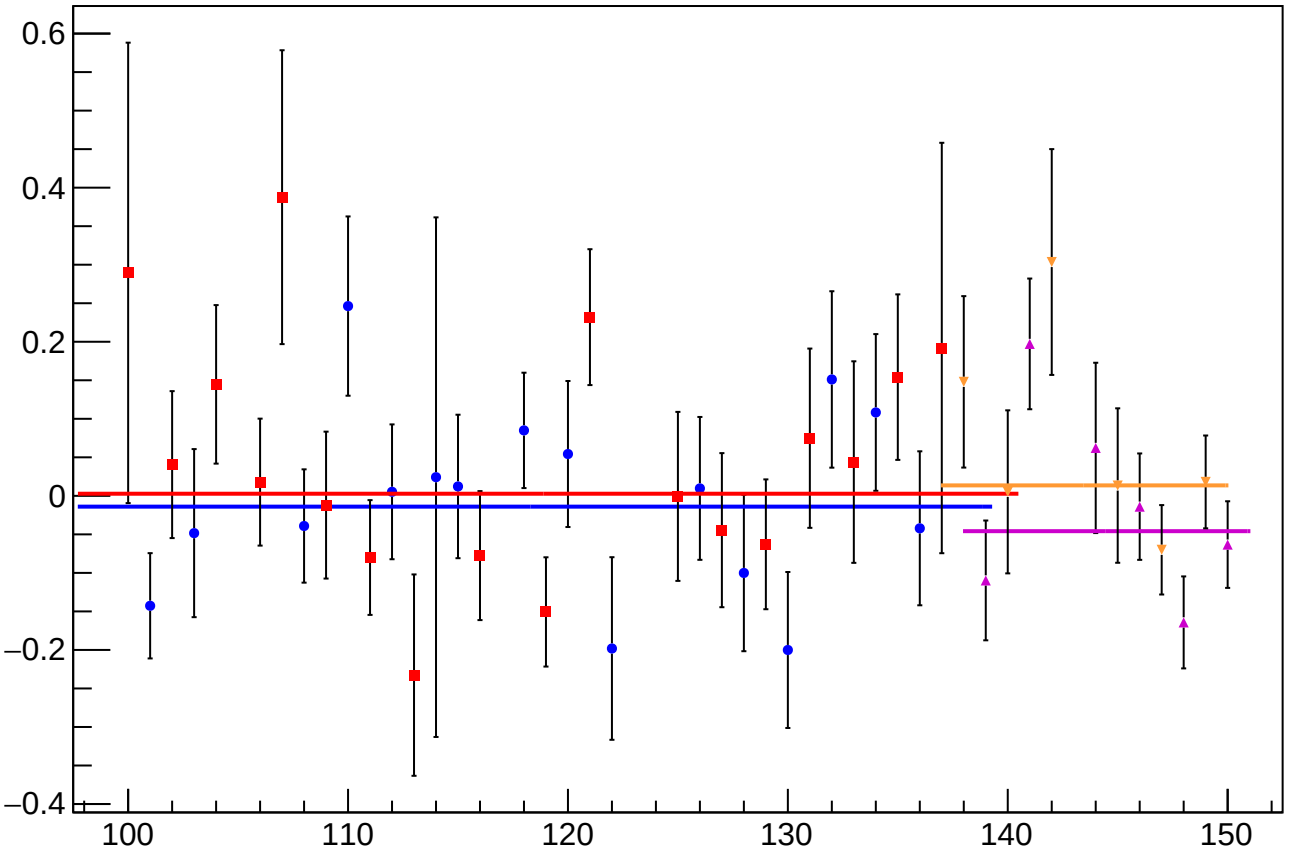
Left: 0.003+/-0.000 $\chi^2$/NDF: 391889.3/11

Right: 0.003+/-0.000 $\chi^2$/NDF: 9479134.4/33

In: 0.002+/-0.000 $\chi^2$/NDF:7184753.9/21

Out: 0.003+/-0.000 $\chi^2$/NDF:2668241.3/23

All: 0.003+/-0.000 $\chi^2$/NDF: 10782475.1/45




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: 0.014+/-0.034 $\chi^2$/NDF:7.5/5

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.046+/-0.029 $\chi^2$/NDF:14.1/5

Left: -0.020+/-0.022 $\chi^2$/NDF: 23.3/11

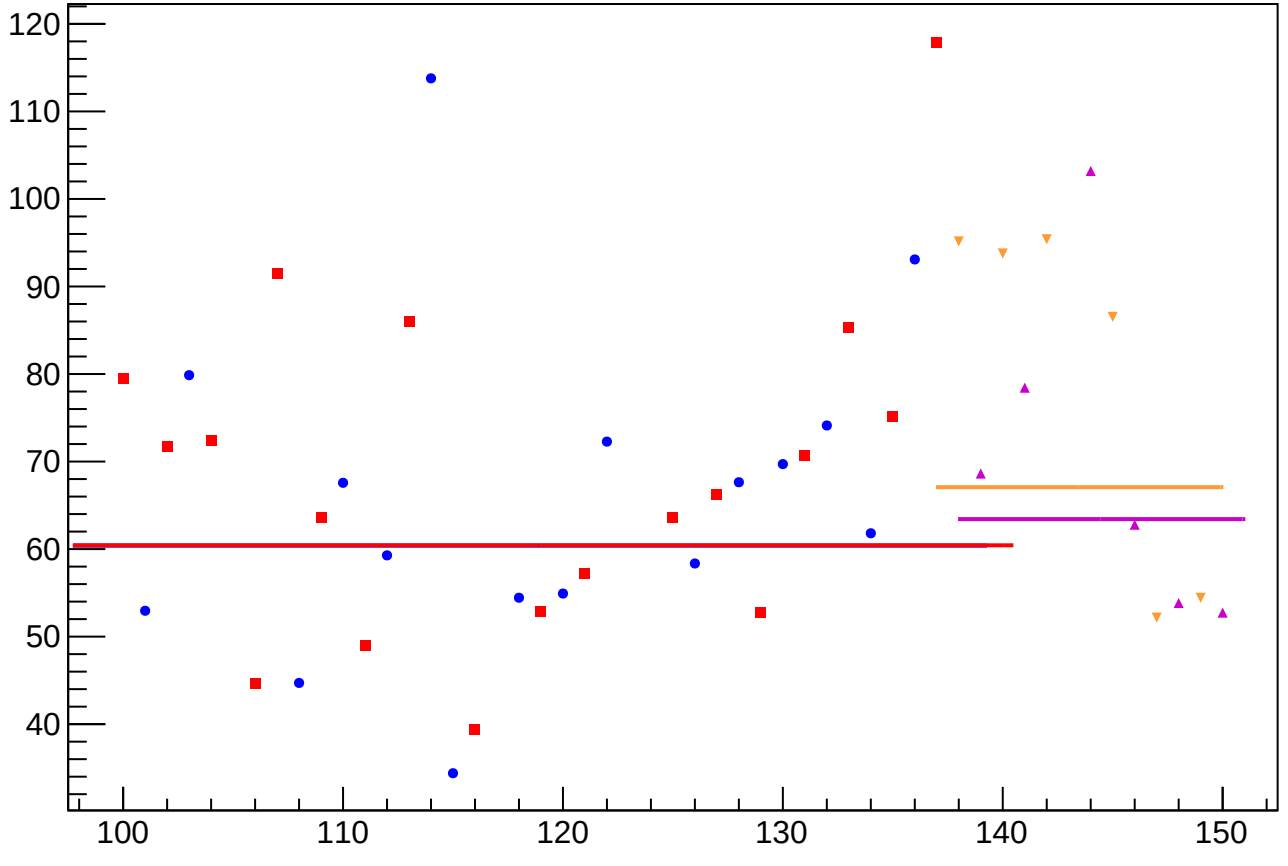
Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.027+/-0.018 $\chi^2$/NDF:36.2/21

Out: 0.006+/-0.019 $\chi^2$/NDF:35.3/23

All: -0.011+/-0.013 $\chi^2$/NDF: 73.0/45

asym_us_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 60.398+/-0.017 $\chi^2$/NDF: 703169.3/15

Left Out: 67.072+/-0.024 $\chi^2$/NDF:624717.2/5

Right Out: 60.432+/-0.017 $\chi^2$/NDF: 711122.4/17

Left In: 63.426+/-0.020 $\chi^2$/NDF:454494.8/5

Left: 64.983+/-0.015 $\chi^2$/NDF: 1092754.5/11

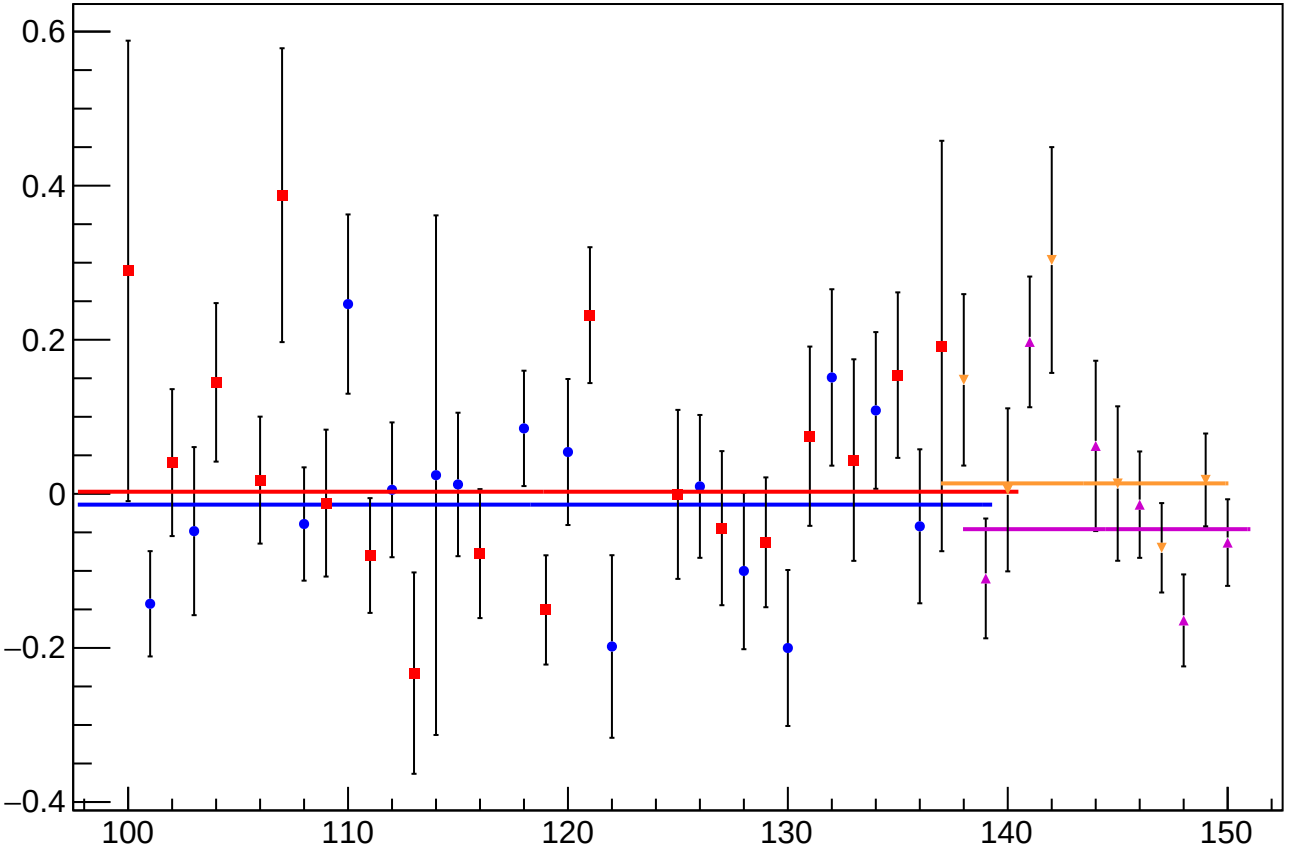
Right: 60.415+/-0.012 $\chi^2$/NDF: 1414293.7/33

In: 61.623+/-0.013 $\chi^2$/NDF:1170692.0/21

Out: 62.655+/-0.014 $\chi^2$/NDF:1387972.6/23

All: 62.112+/-0.009 $\chi^2$/NDF: 2561642.0/45

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: 0.014+/-0.034 $\chi^2$/NDF:7.5/5

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.046+/-0.029 $\chi^2$/NDF:14.1/5

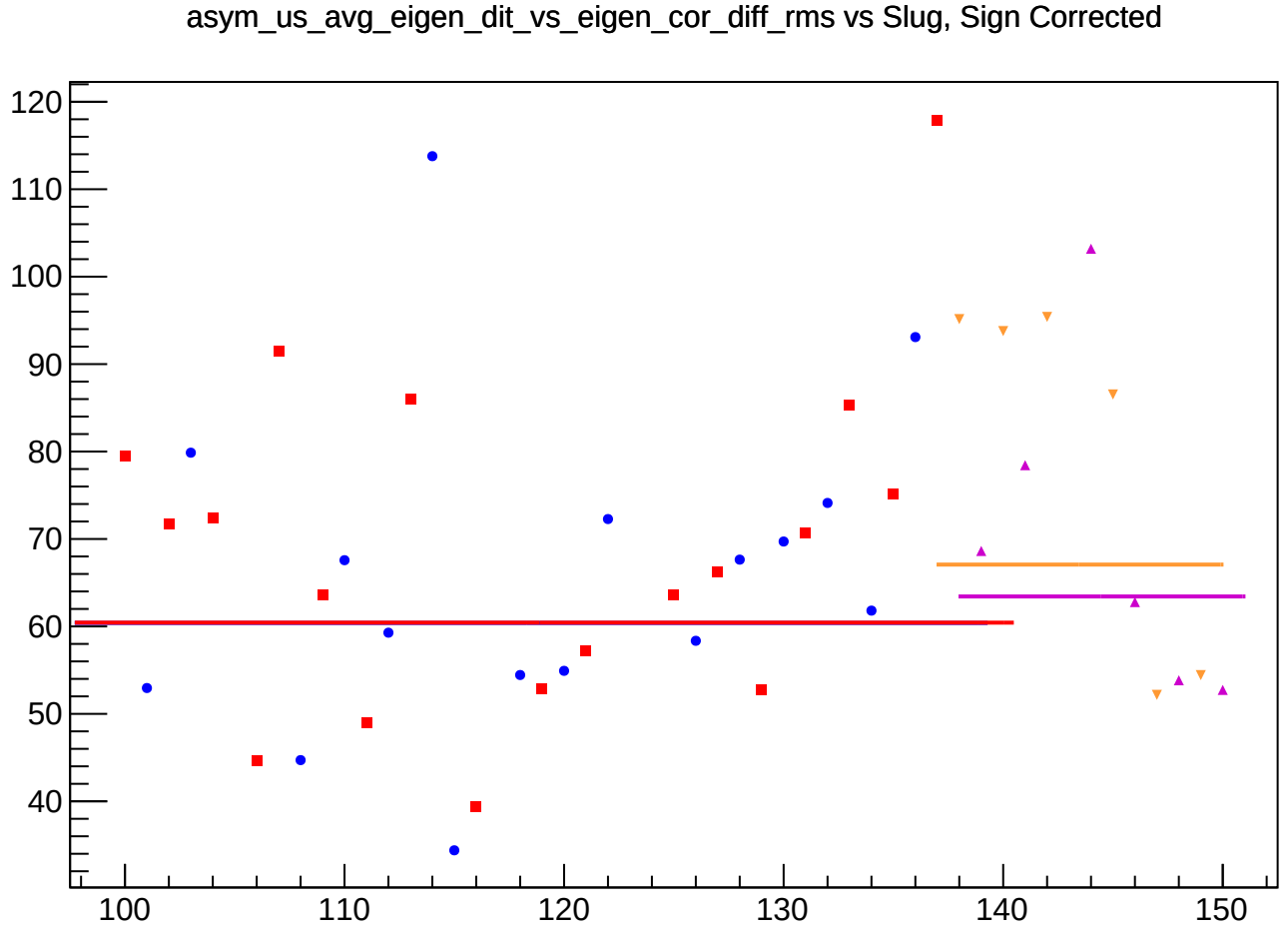
Left: -0.020+/-0.022 $\chi^2$/NDF: 23.3/11

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.027+/-0.018 $\chi^2$/NDF:36.2/21

Out: 0.006+/-0.019 $\chi^2$/NDF:35.3/23

All: -0.011+/-0.013 $\chi^2$/NDF: 73.0/45




Right In: 60.398+/-0.017 $\chi^2$/NDF: 703169.3/15

Left Out: 67.072+/-0.024 $\chi^2$/NDF:624717.2/5

Right Out: 60.432+/-0.017 $\chi^2$/NDF: 711122.4/17

Left In: 63.426+/-0.020 $\chi^2$/NDF:454494.8/5

Left: 64.983+/-0.015 $\chi^2$/NDF: 1092754.5/11

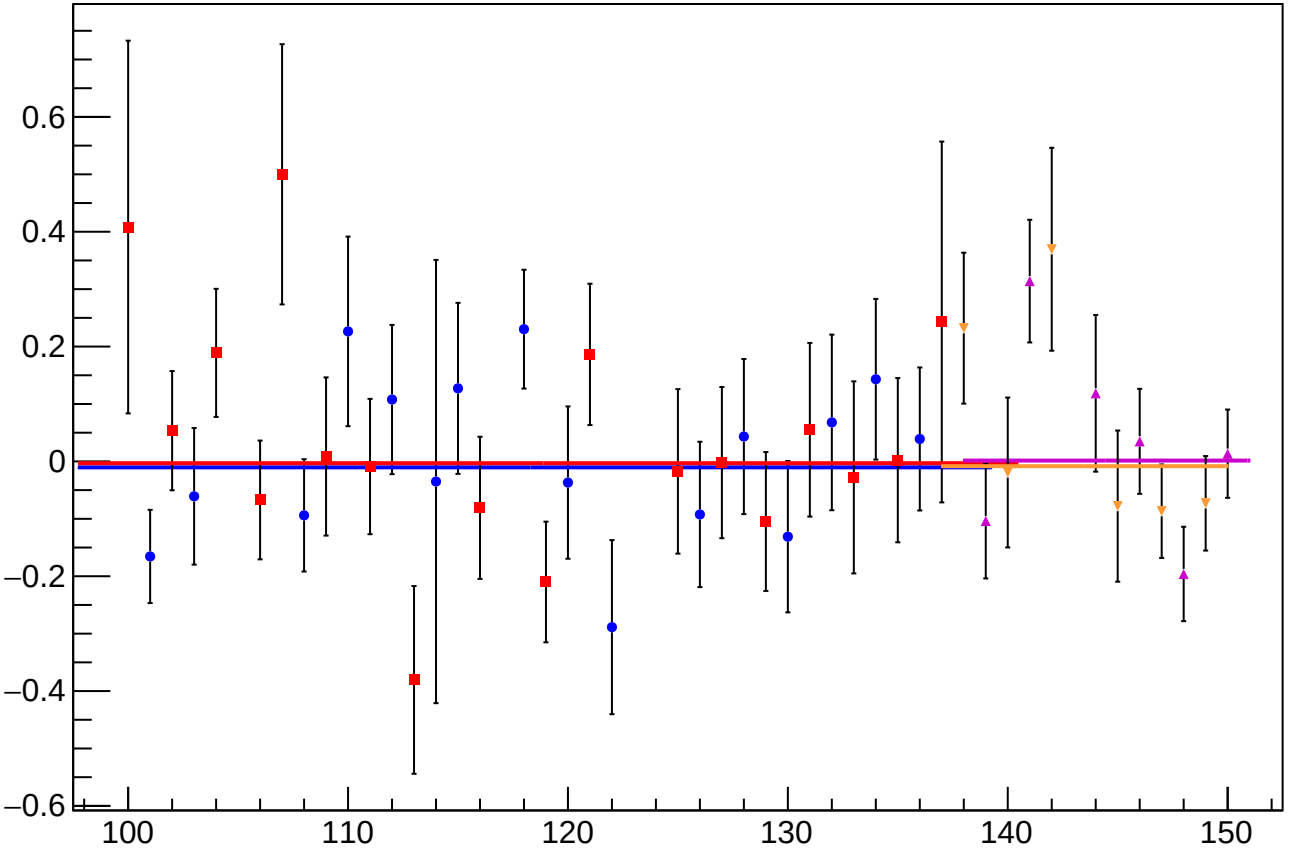
Right: 60.415+/-0.012 $\chi^2$/NDF: 1414293.7/33

In: 61.623+/-0.013 $\chi^2$/NDF:1170692.0/21

Out: 62.655+/-0.014 $\chi^2$/NDF:1387972.6/23

All: 62.112+/-0.009 $\chi^2$/NDF: 2561642.0/45

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.032 $\chi^2$/NDF: 20.2/15

Left Out: -0.008+/-0.045 $\chi^2$/NDF:9.7/5

Right Out: -0.003+/-0.032 $\chi^2$/NDF: 23.7/17

Left In: 0.001+/-0.038 $\chi^2$/NDF:16.3/5

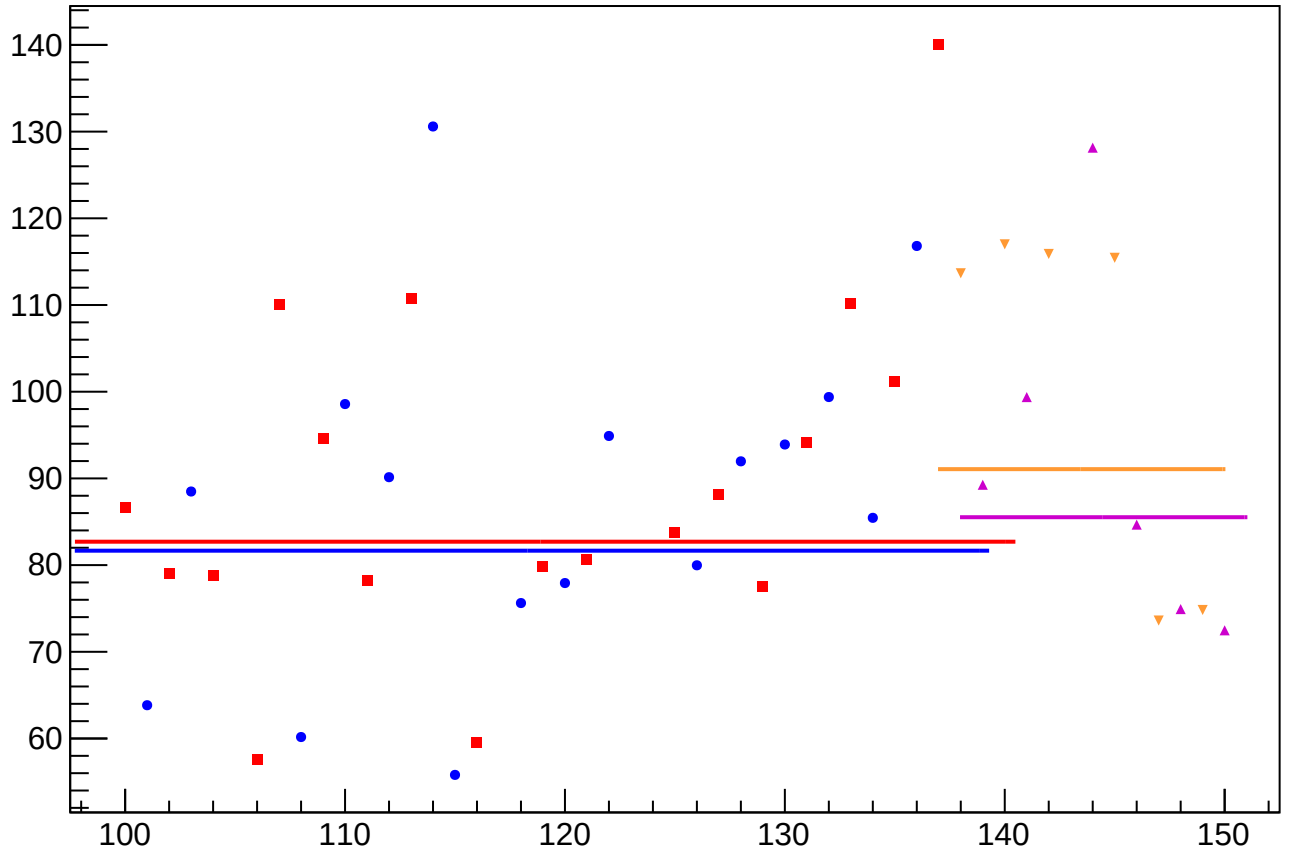
Left: -0.003+/-0.029 $\chi^2$/NDF: 26.1/11

Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: -0.006+/-0.024 $\chi^2$/NDF:36.5/21

Out: -0.005+/-0.026 $\chi^2$/NDF:33.4/23

All: -0.005+/-0.018 $\chi^2$/NDF: 70.0/45




Right In: 81.663+/-0.022 $\chi^2$/NDF: 561836.4/15

Left Out: 91.068+/-0.031 $\chi^2$/NDF:415888.9/5

Right Out: 82.700+/-0.022 $\chi^2$/NDF: 473062.4/17

Left In: 85.524+/-0.027 $\chi^2$/NDF:322575.0/5

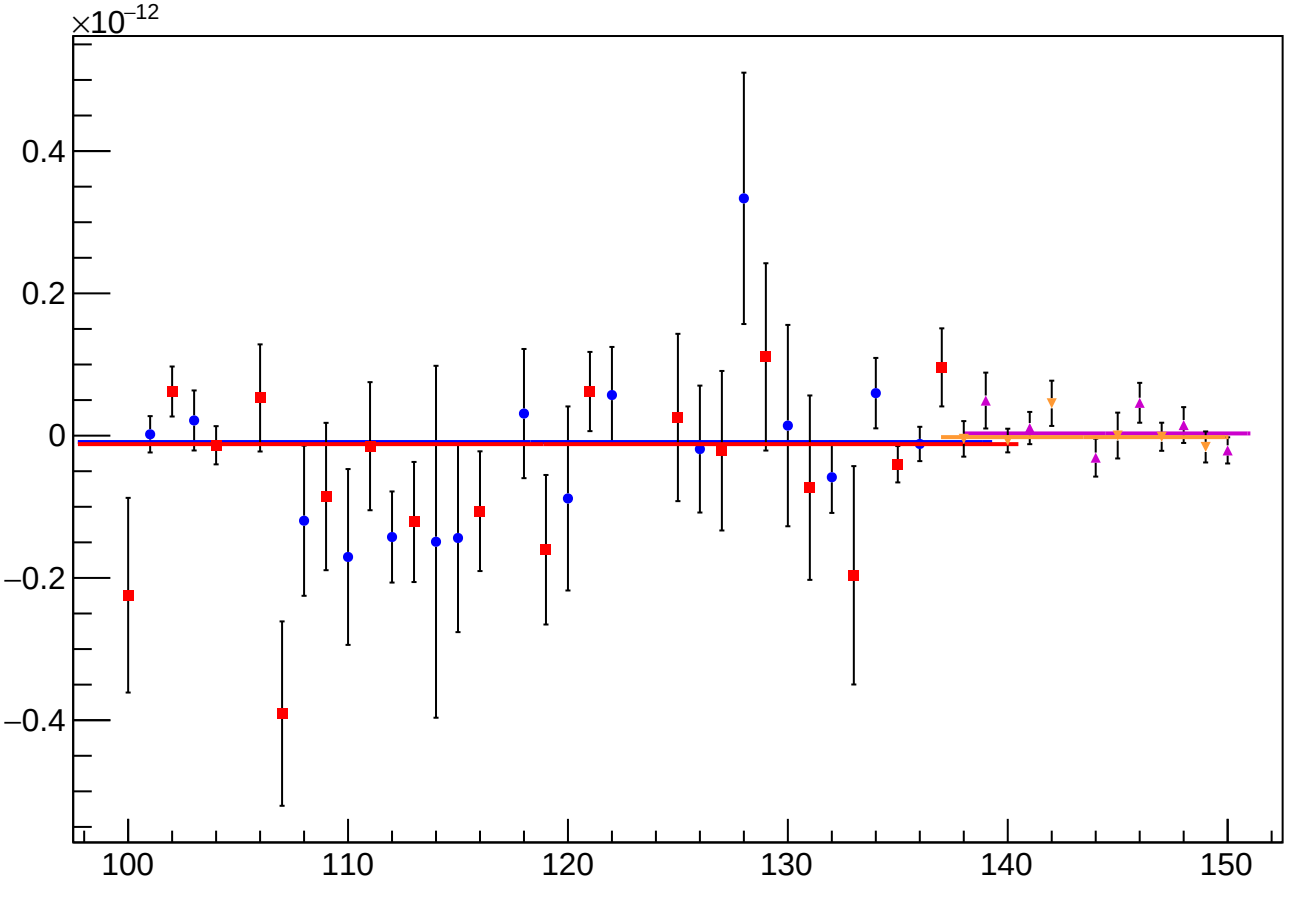
Left: 87.891+/-0.021 $\chi^2$/NDF: 756247.2/11

Right: 82.179+/-0.016 $\chi^2$/NDF: 1035971.3/33

In: 83.222+/-0.017 $\chi^2$/NDF:896462.2/21

Out: 85.521+/-0.018 $\chi^2$/NDF:935809.7/23

All: 84.306+/-0.013 $\chi^2$/NDF: 1840639.0/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.7/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 31.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.4/5

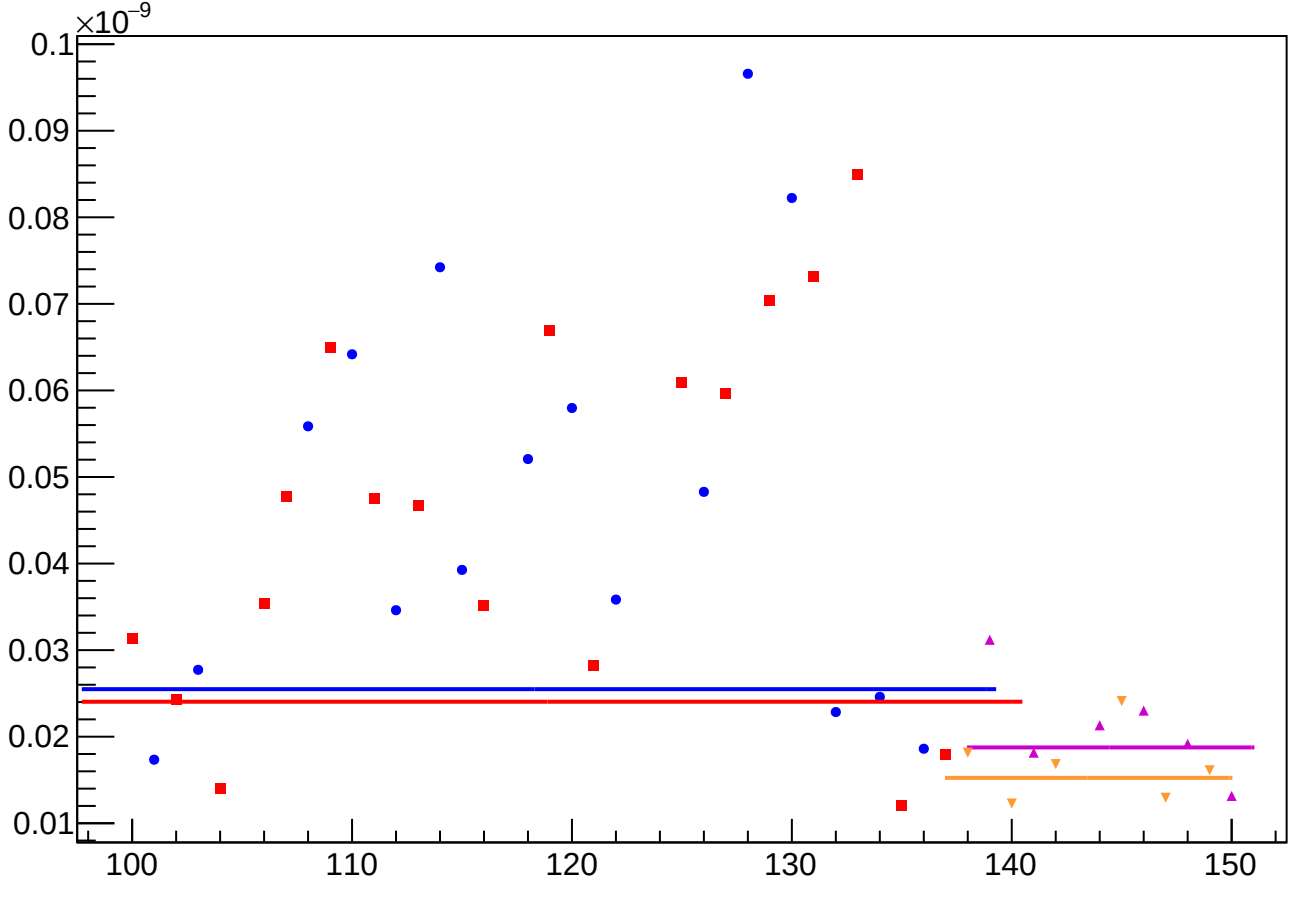
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.3/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:25.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:34.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 59.6/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1999848.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:277568.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3084598.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:452522.4/5

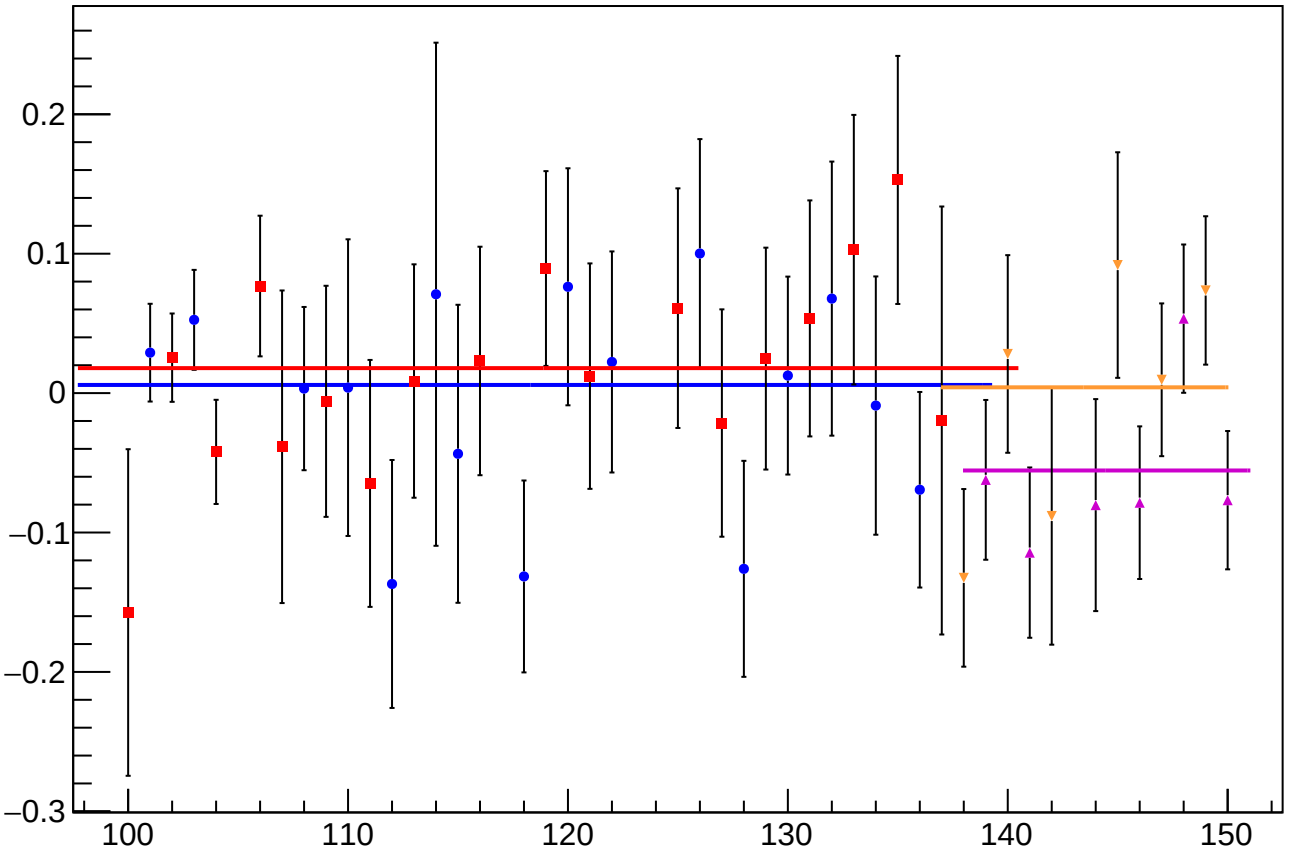
Left: 0.000+/-0.000 $\chi^2$/NDF: 862502.2/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 5096304.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2779080.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3948153.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6892348.7/45




Right In: 0.006+/-0.017 $\chi^2$/NDF: 15.6/15

Left Out: 0.004+/-0.027 $\chi^2$/NDF:8.6/5

Right Out: 0.018+/-0.016 $\chi^2$/NDF: 12.3/17

Left In: -0.056+/-0.023 $\chi^2$/NDF:5.6/5

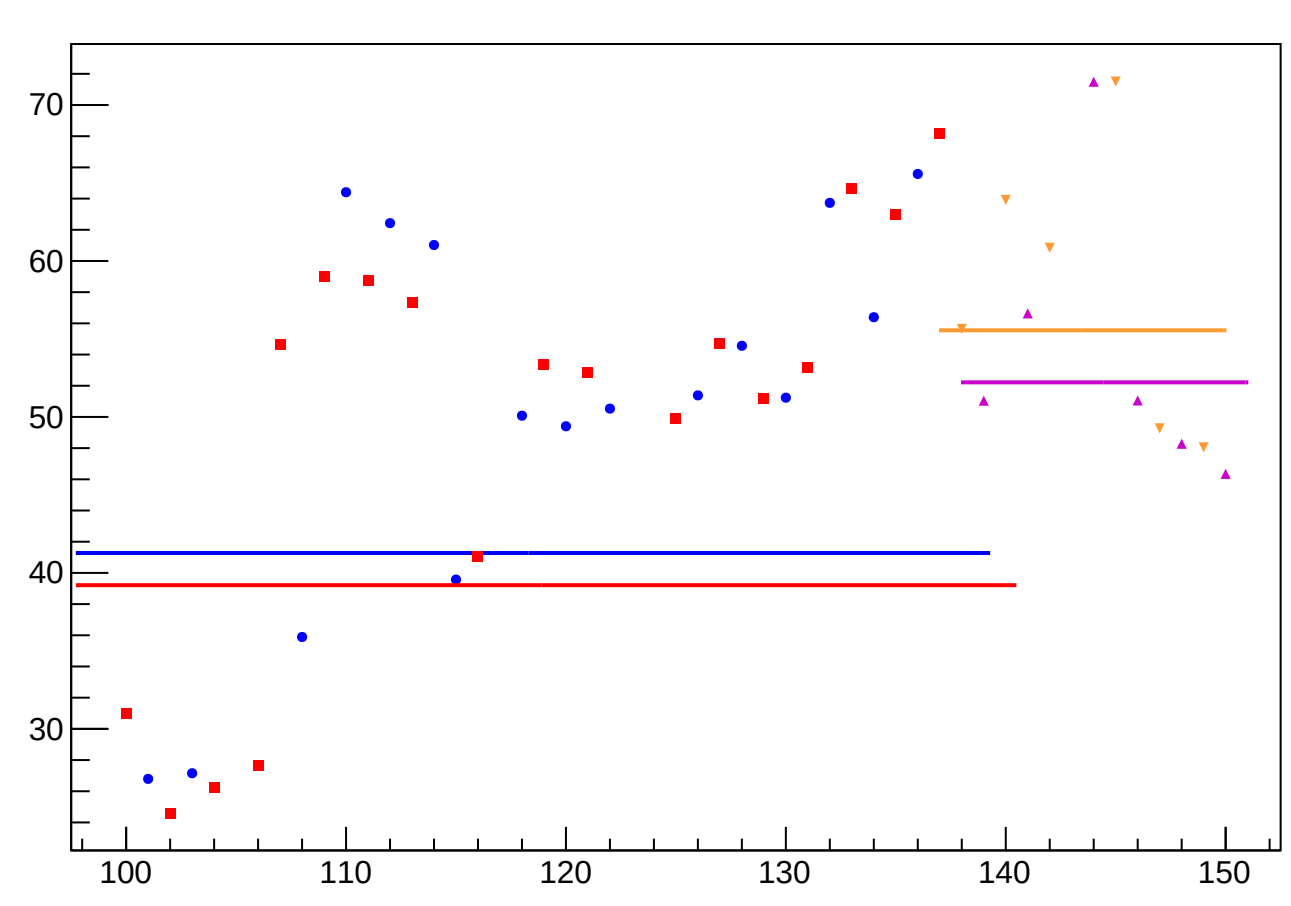
Left: -0.030+/-0.018 $\chi^2$/NDF: 17.0/11

Right: 0.012+/-0.011 $\chi^2$/NDF: 28.2/33

In: -0.015+/-0.013 $\chi^2$/NDF:25.8/21

Out: 0.014+/-0.014 $\chi^2$/NDF:21.1/23

All: -0.000+/-0.010 $\chi^2$/NDF: 49.2/45




Right In: 41.277+/-0.012 $\chi^2$/NDF: 1505245.8/15

Left Out: 55.555+/-0.019 $\chi^2$/NDF:178217.5/5

Right Out: 39.212+/-0.011 $\chi^2$/NDF: 1819921.9/17

Left In: 52.218+/-0.016 $\chi^2$/NDF:179654.0/5

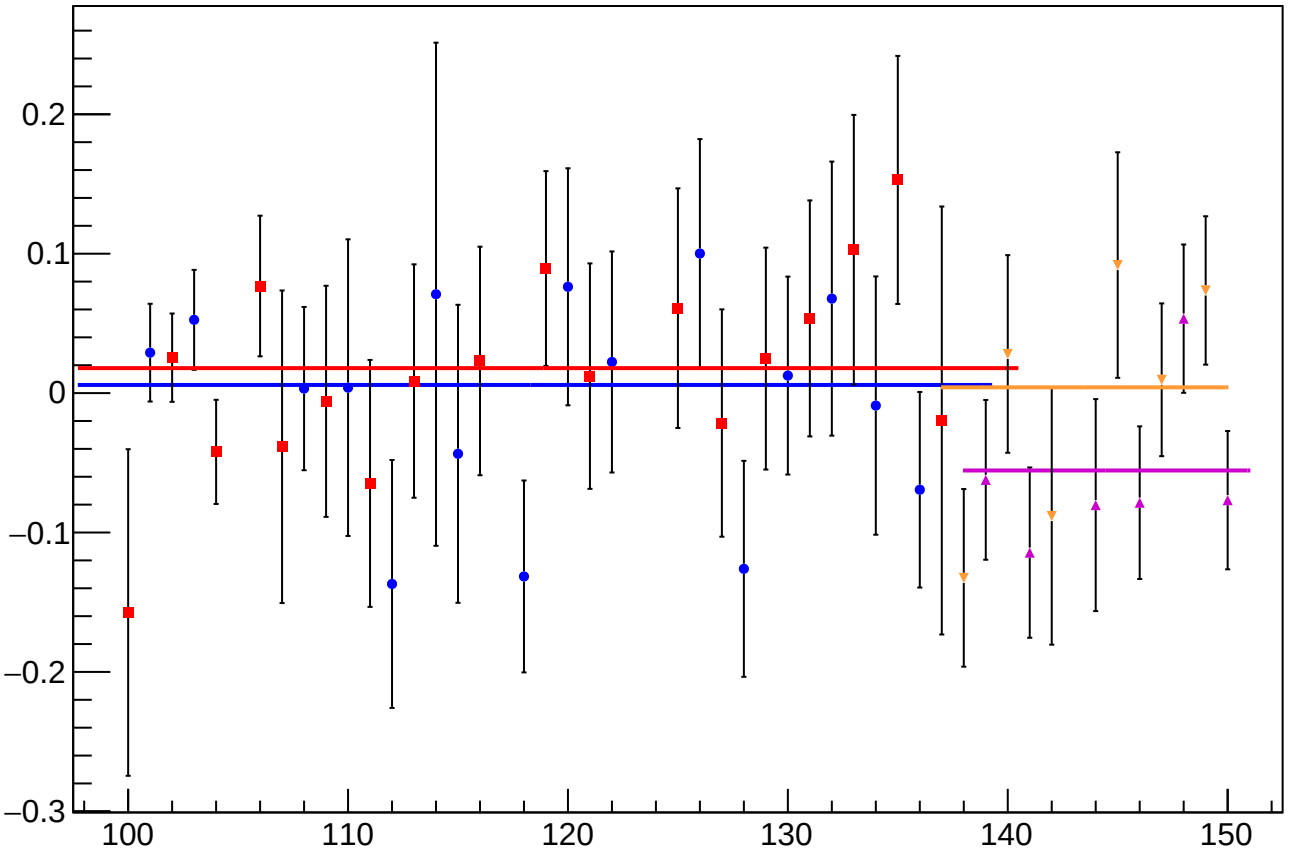
Left: 53.661+/-0.012 $\chi^2$/NDF: 375586.3/11

Right: 40.194+/-0.008 $\chi^2$/NDF: 3341542.4/33

In: 44.935+/-0.010 $\chi^2$/NDF:1978006.3/21

Out: 43.422+/-0.010 $\chi^2$/NDF:2554010.8/23

All: 44.182+/-0.007 $\chi^2$/NDF: 4544534.1/45




Right In: 0.006+/-0.017 $\chi^2$/NDF: 15.6/15

Left Out: 0.004+/-0.027 $\chi^2$/NDF:8.6/5

Right Out: 0.018+/-0.016 $\chi^2$/NDF: 12.3/17

Left In: -0.056+/-0.023 $\chi^2$/NDF:5.6/5

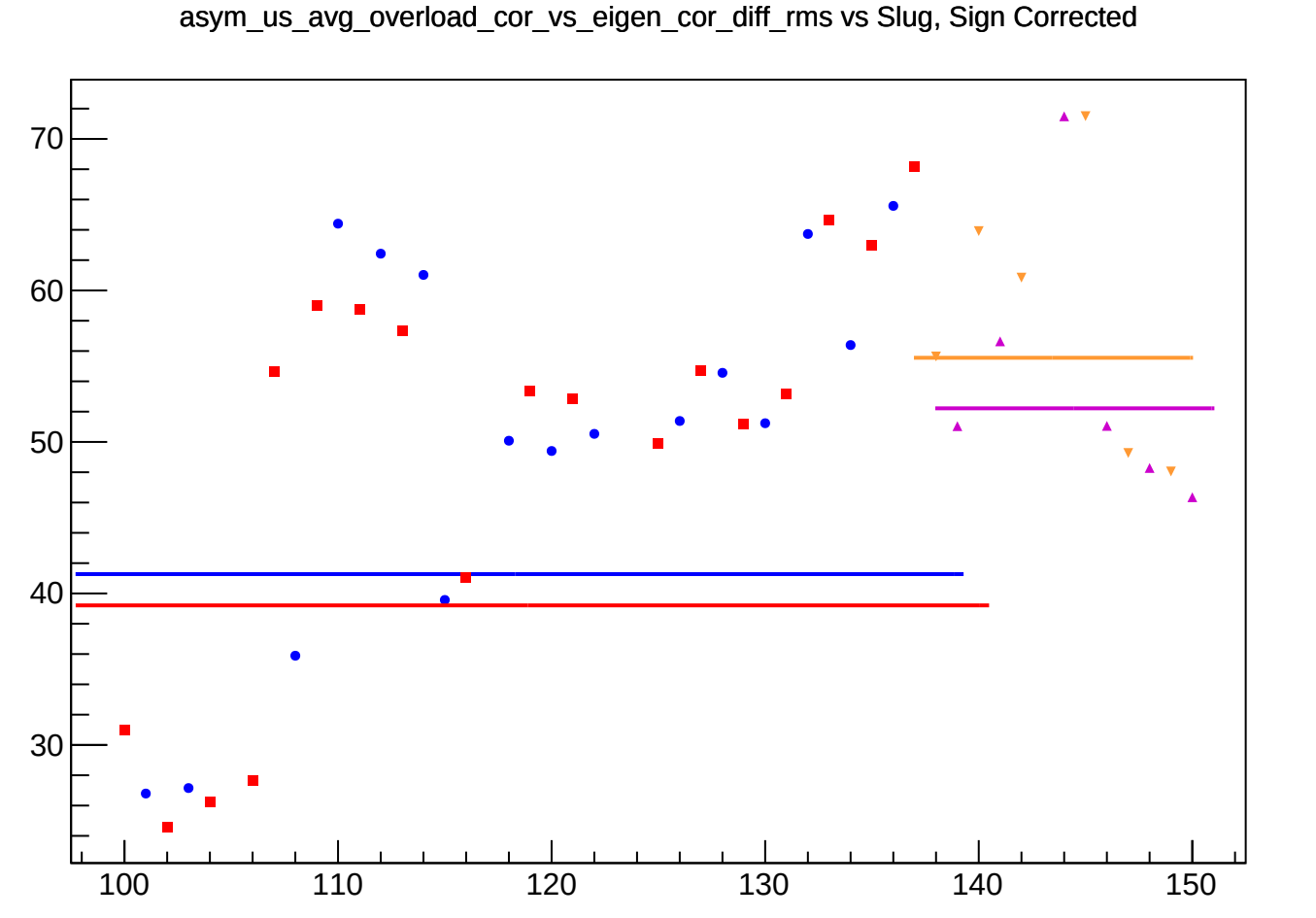
Left: -0.030+/-0.018 $\chi^2$/NDF: 17.0/11

Right: 0.012+/-0.011 $\chi^2$/NDF: 28.2/33

In: -0.015+/-0.013 $\chi^2$/NDF:25.8/21

Out: 0.014+/-0.014 $\chi^2$/NDF:21.1/23

All: -0.000+/-0.010 $\chi^2$/NDF: 49.2/45




Right In: 41.277+/-0.012 $\chi^2$/NDF: 1505245.8/15

Left Out: 55.555+/-0.019 $\chi^2$/NDF:178217.5/5

Right Out: 39.212+/-0.011 $\chi^2$/NDF: 1819921.9/17

Left In: 52.218+/-0.016 $\chi^2$/NDF:179654.0/5

Left: 53.661+/-0.012 $\chi^2$/NDF: 375586.3/11

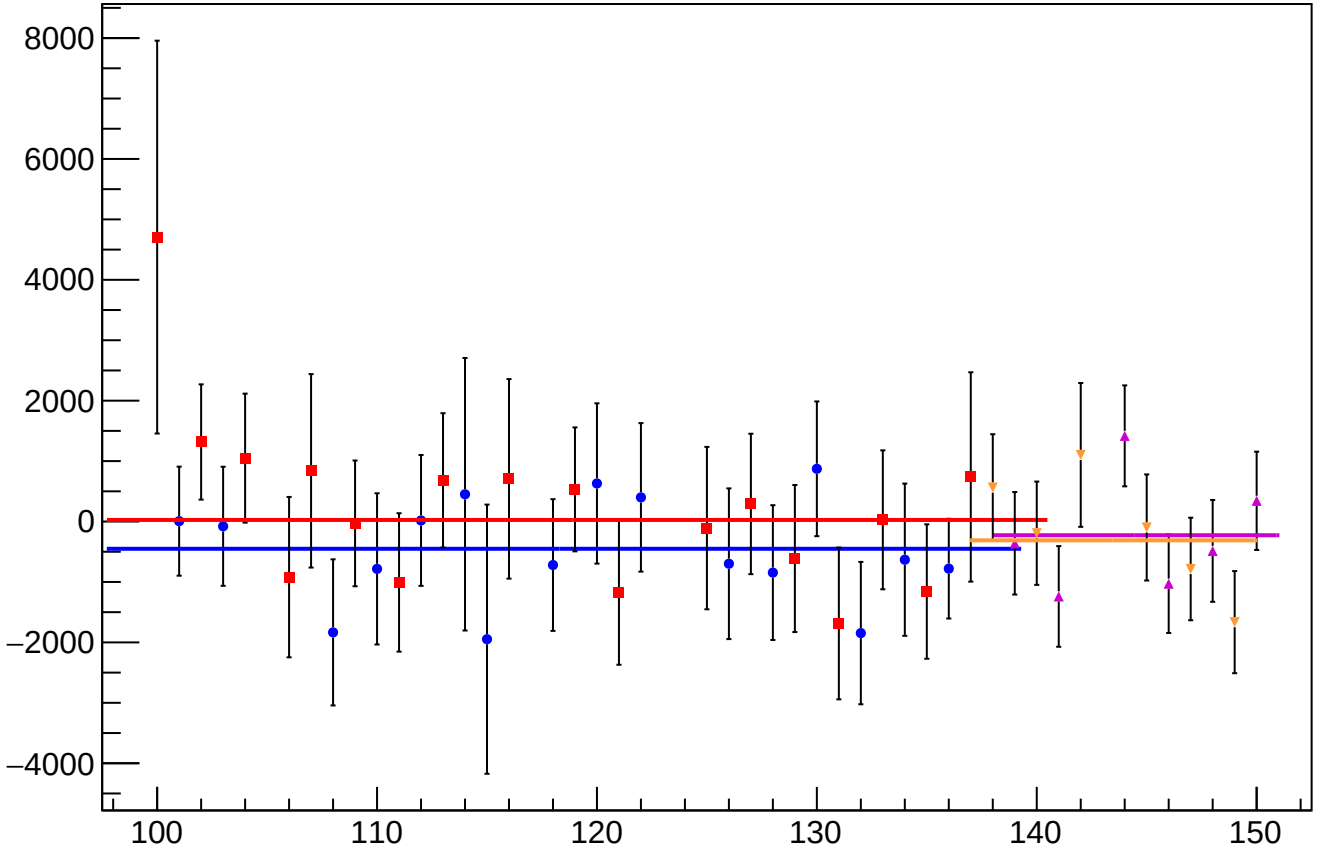
Right: 40.194+/-0.008 $\chi^2$/NDF: 3341542.4/33

In: 44.935+/-0.010 $\chi^2$/NDF:1978006.3/21

Out: 43.422+/-0.010 $\chi^2$/NDF:2554010.8/23

All: 44.182+/-0.007 $\chi^2$/NDF: 4544534.1/45

# reg_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -310.978+/-366.481 $\chi^2$/NDF:5.3/5

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -226.704+/-339.231 $\chi^2$/NDF:6.9/5

Left: -265.591+/-248.949 $\chi^2$/NDF: 12.3/11

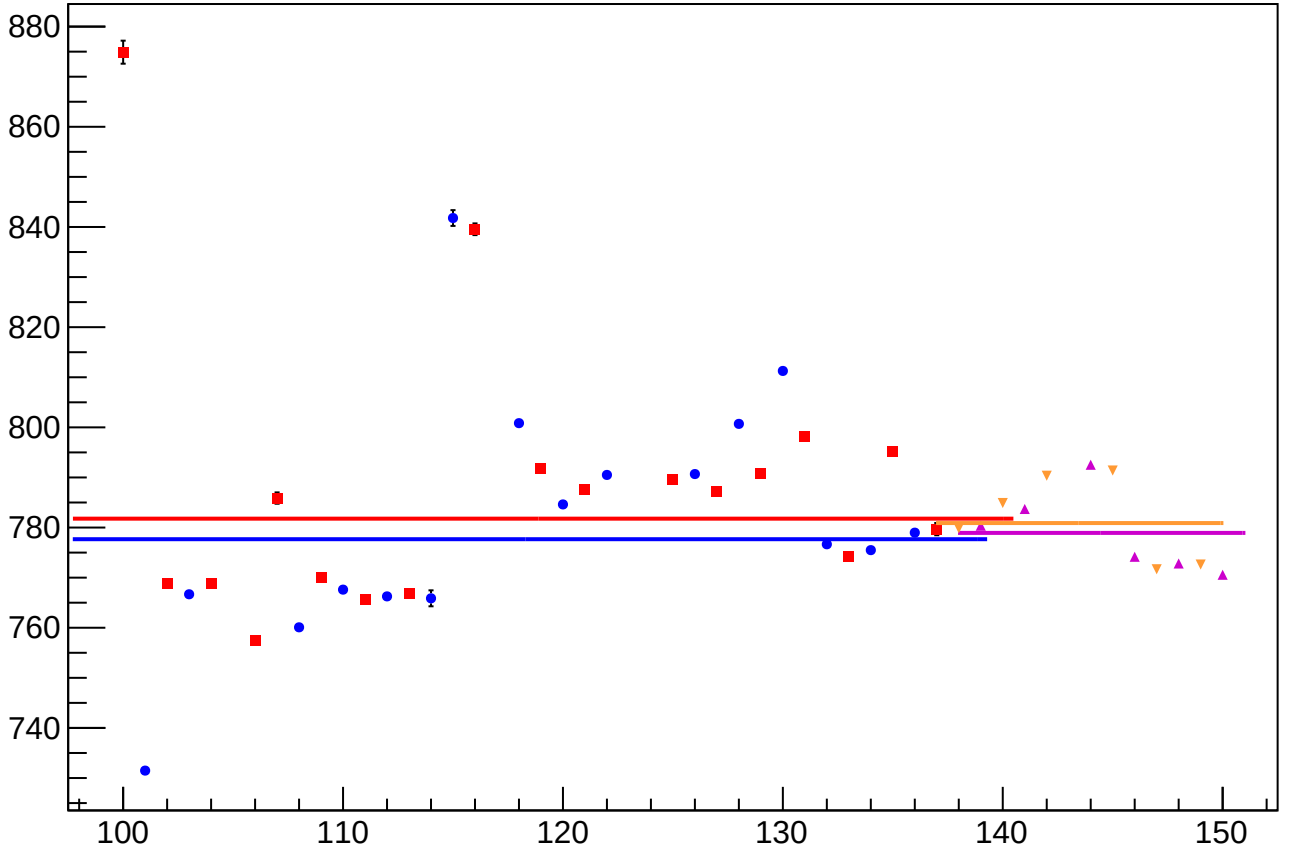
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -356.664+/-219.969 $\chi^2$/NDF:14.1/21

Out: -102.636+/-226.483 $\chi^2$/NDF:17.6/23

All: -233.355+/-157.794 $\chi^2$/NDF: 32.3/45

# reg_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 780.897+/-0.259 $\chi^2$/NDF:886.7/5

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 778.932+/-0.240 $\chi^2$/NDF:986.6/5

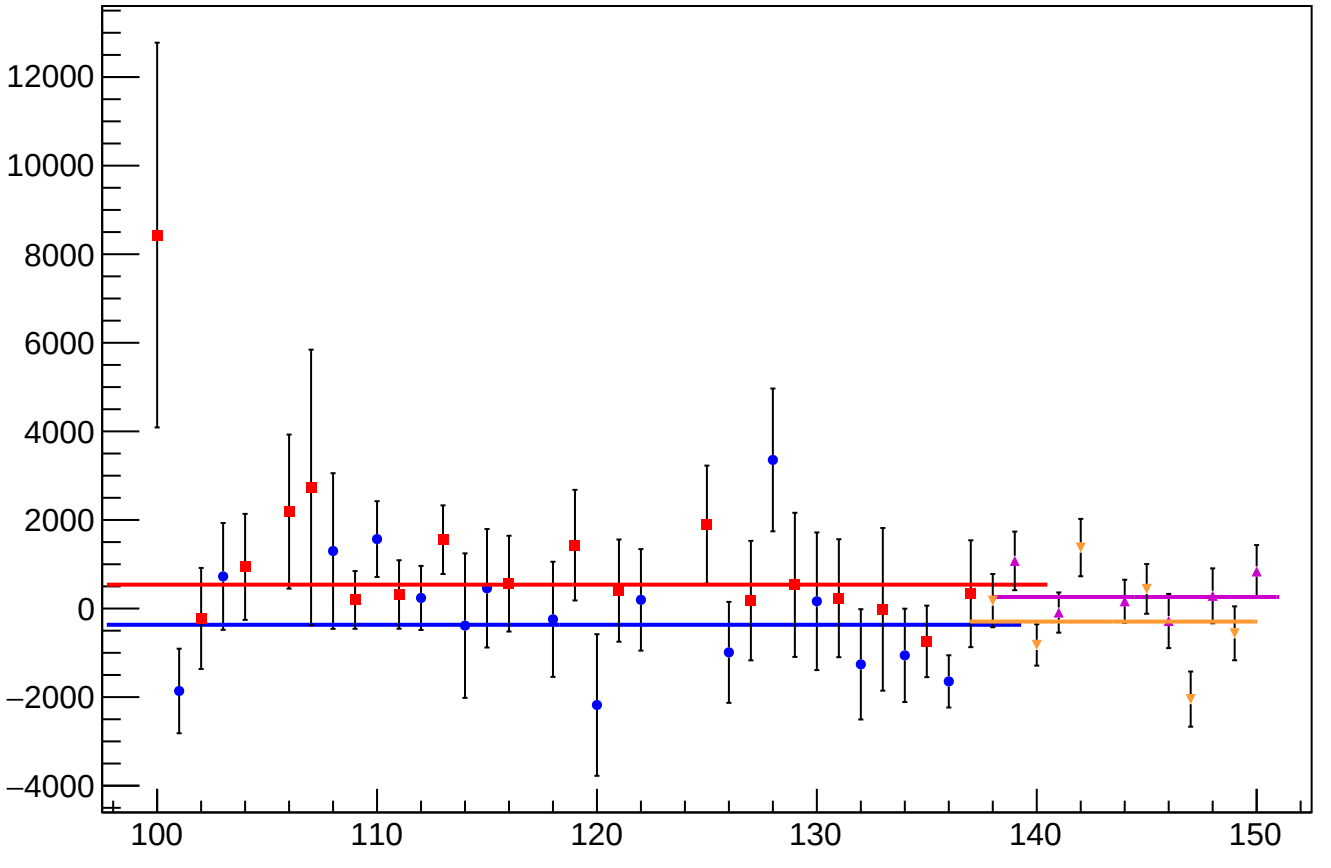
Left: 779.839+/-0.176 $\chi^2$/NDF: 1904.2/11

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 778.203+/-0.156 $\chi^2$/NDF:13057.9/21

Out: 781.441+/-0.160 $\chi^2$/NDF:8520.1/23

All: 779.775+/-0.112 $\chi^2$/NDF: 21788.3/45




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -294.503+/-234.483 $\chi^2$/NDF:18.4/5

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 260.554+/-226.648 $\chi^2$/NDF:3.9/5

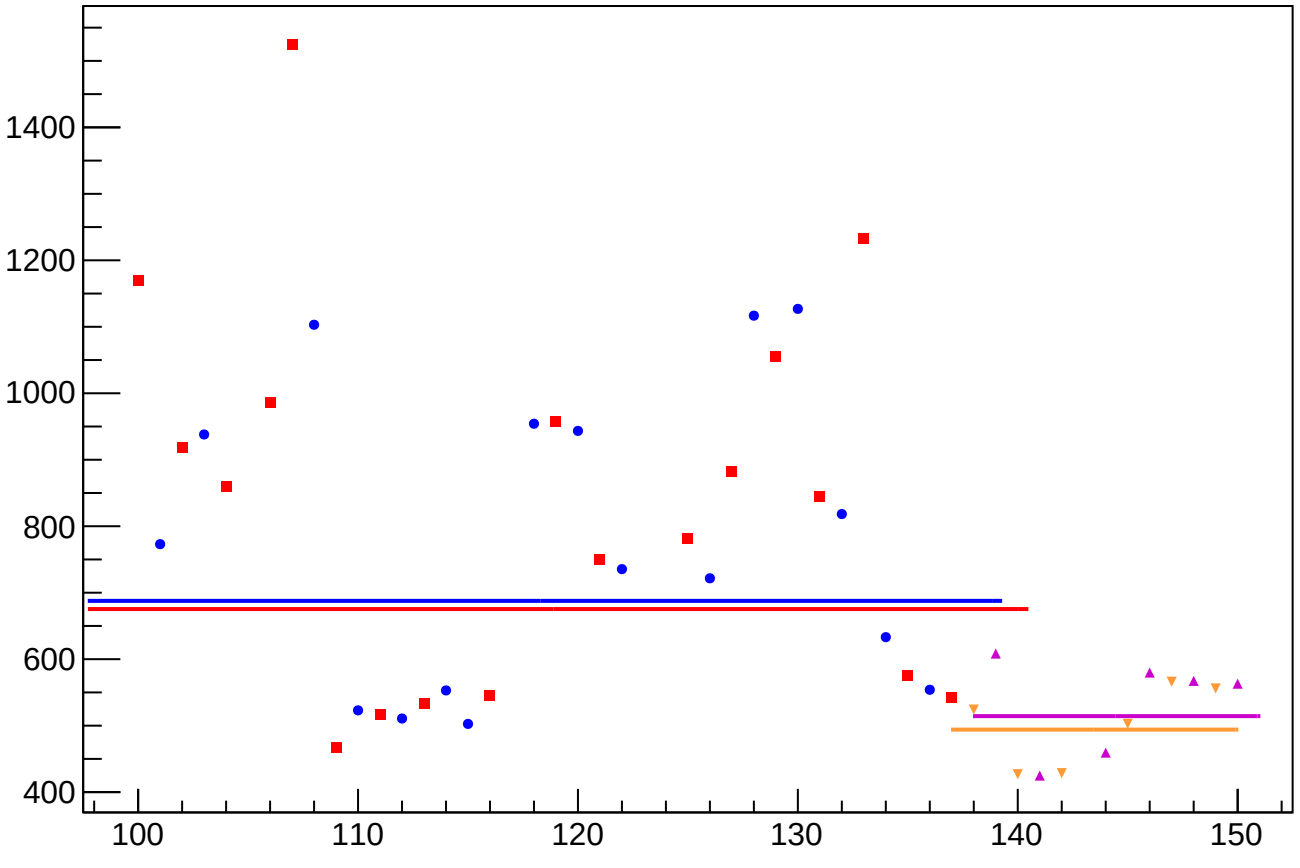
Left: -7.546+/-162.964 $\chi^2$/NDF: 25.2/11

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: -2.615+/-172.707 $\chi^2$/NDF:30.4/21

Out: 74.722+/-174.994 $\chi^2$/NDF:35.6/23

All: 35.545+/-122.923 $\chi^2$/NDF: 66.1/45




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 494.062+/-0.166 $\chi^2$/NDF:114736.4/5

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 514.325+/-0.160 $\chi^2$/NDF:194650.4/5

Left: 504.538+/-0.115 $\chi^2$/NDF: 317108.7/11

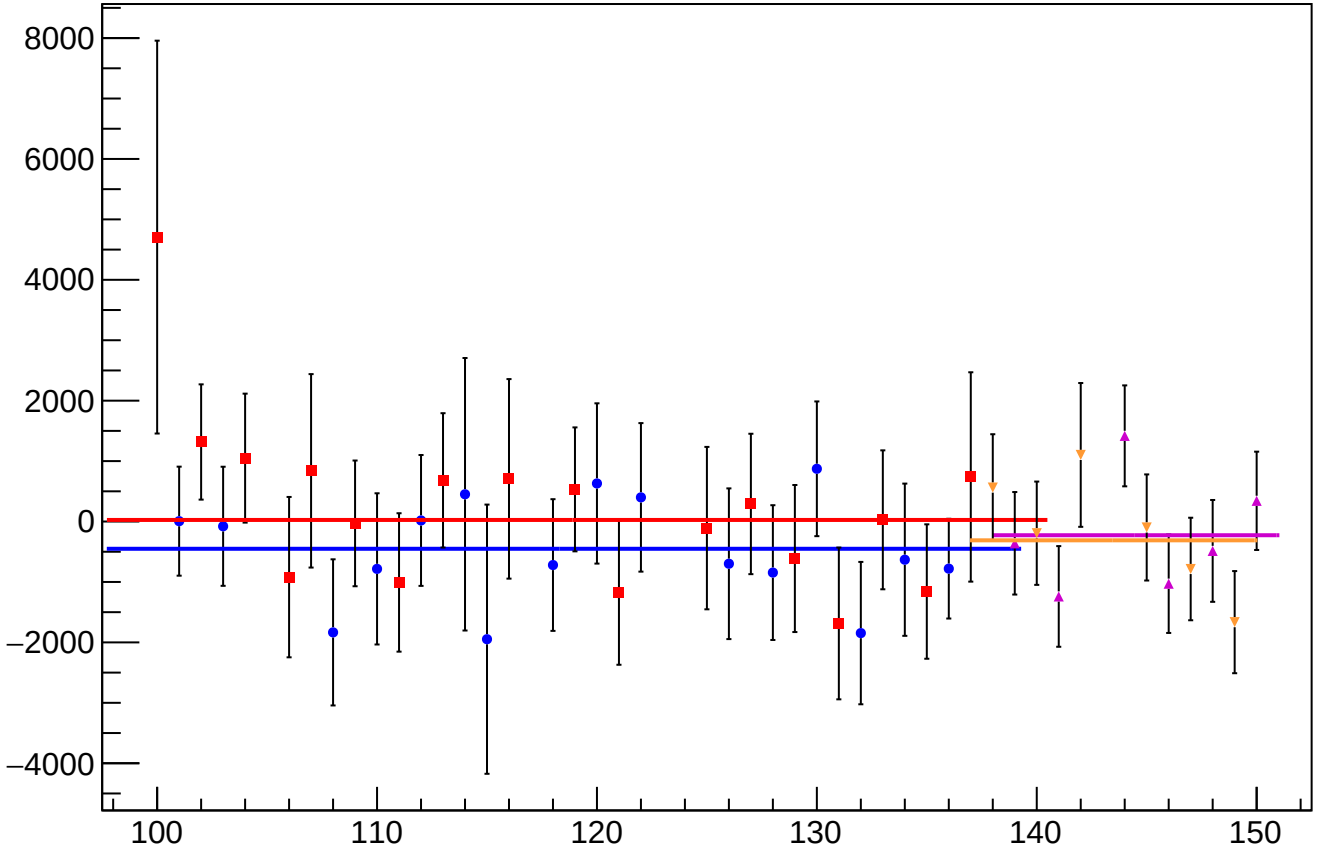
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 587.037+/-0.122 $\chi^2$/NDF:1717418.0/21

Out: 574.406+/-0.124 $\chi^2$/NDF:1957739.7/23

All: 580.805+/-0.087 $\chi^2$/NDF: 3680436.3/45

# cor_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -310.978+/-366.481 $\chi^2$/NDF:5.3/5

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -226.704+/-339.231 $\chi^2$/NDF:6.9/5

Left: -265.591+/-248.949 $\chi^2$/NDF: 12.3/11

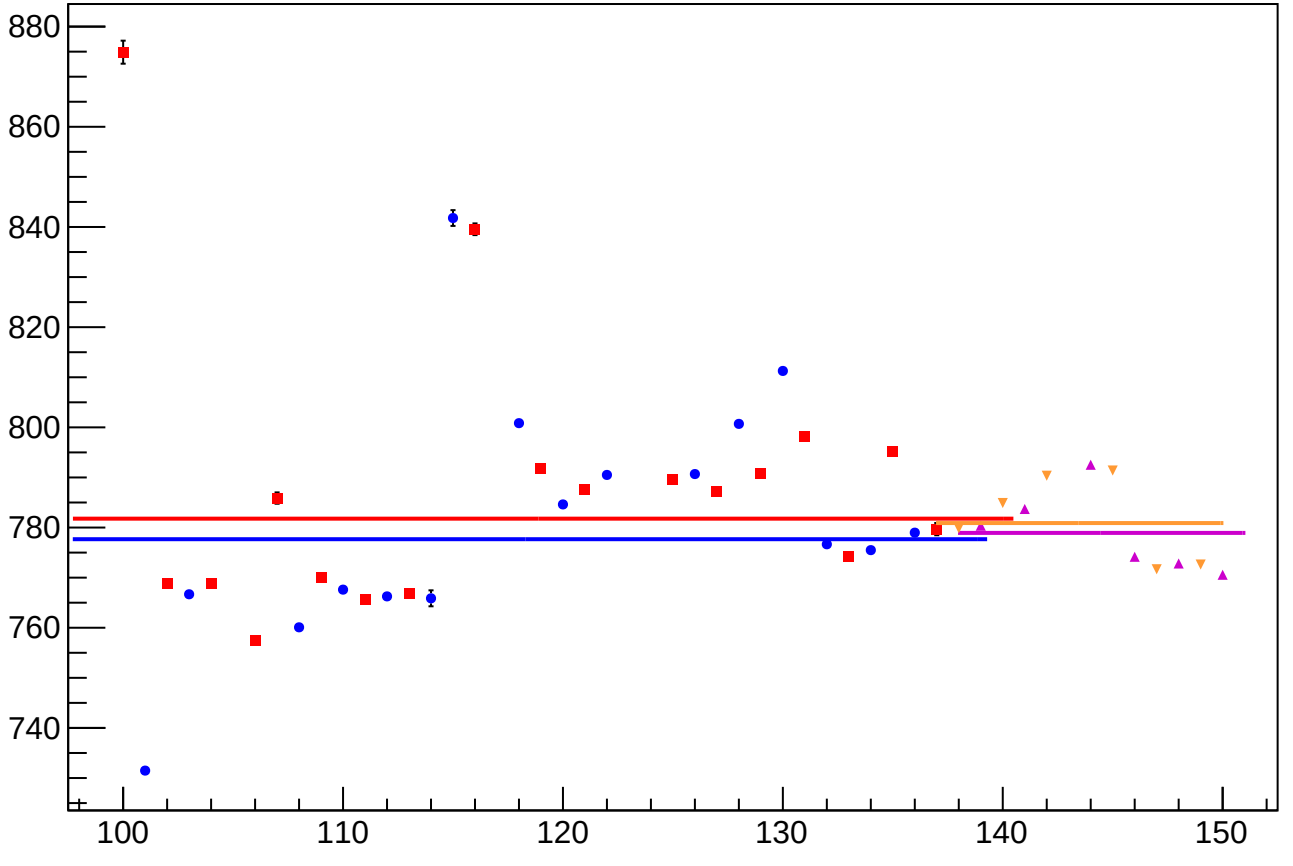
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -356.664+/-219.969 $\chi^2$/NDF:14.1/21

Out: -102.636+/-226.483 $\chi^2$/NDF:17.6/23

All: -233.355+/-157.794 $\chi^2$/NDF: 32.3/45

# cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 780.897+/-0.259 $\chi^2$/NDF:886.7/5

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 778.932+/-0.240 $\chi^2$/NDF:986.6/5

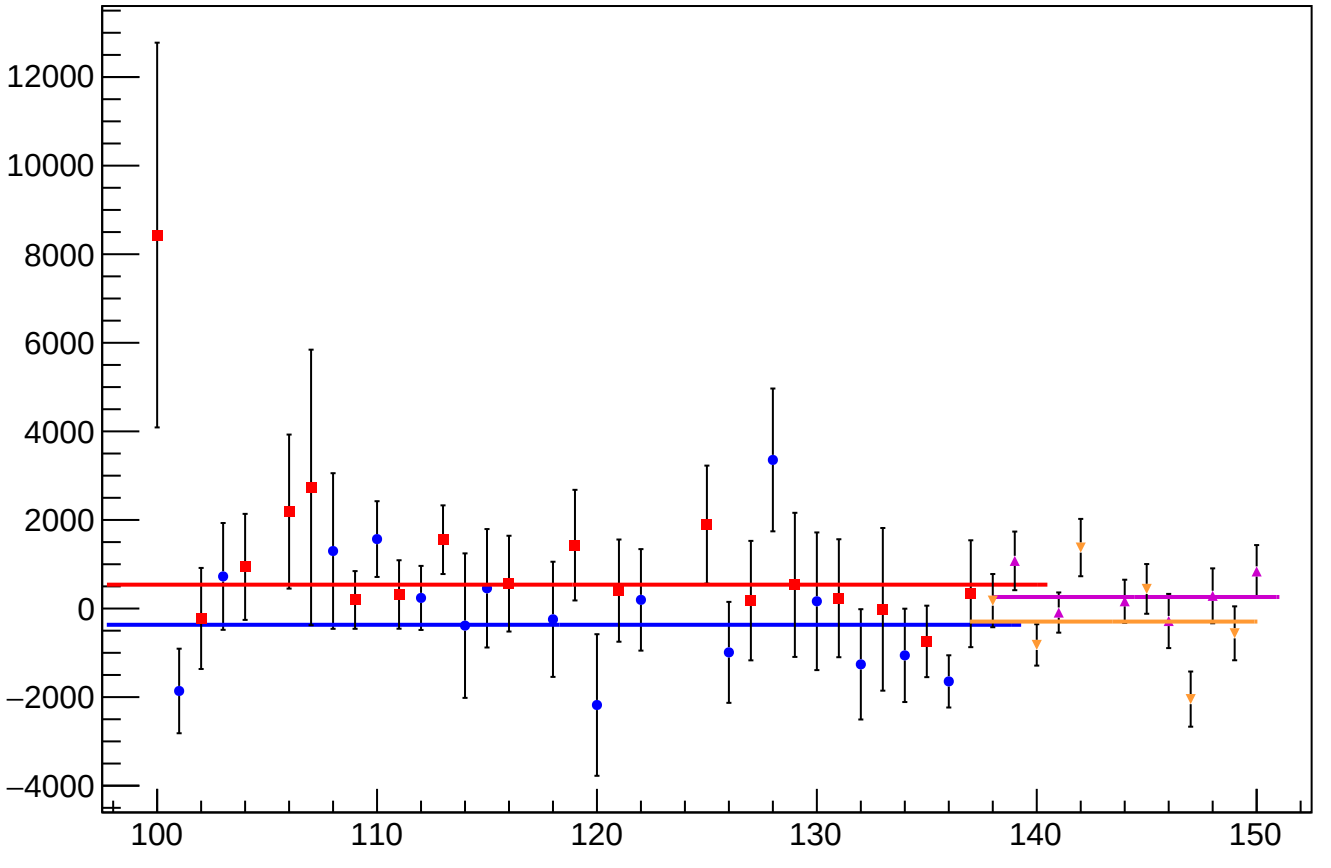
Left: 779.839+/-0.176 $\chi^2$/NDF: 1904.2/11

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 778.203+/-0.156 $\chi^2$/NDF:13057.9/21

Out: 781.441+/-0.160 $\chi^2$/NDF:8520.1/23

All: 779.775+/-0.112 $\chi^2$/NDF: 21788.3/45




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -294.503+/-234.483 $\chi^2$/NDF:18.4/5

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 260.554+/-226.648 $\chi^2$/NDF:3.9/5

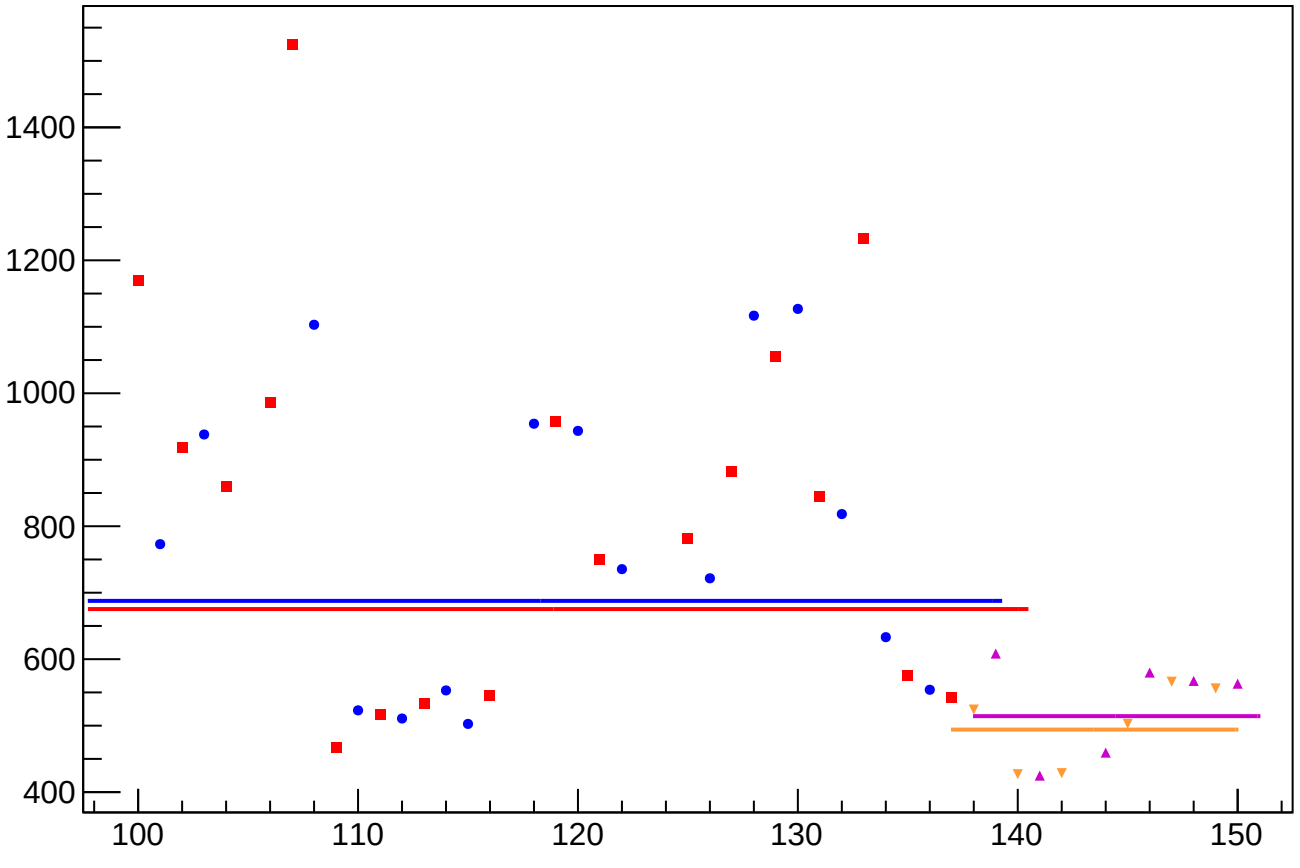
Left: -7.546+/-162.964 $\chi^2$/NDF: 25.2/11

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: -2.615+/-172.707 $\chi^2$/NDF:30.4/21

Out: 74.722+/-174.994 $\chi^2$/NDF:35.6/23

All: 35.545+/-122.923 $\chi^2$/NDF: 66.1/45




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 494.062+/-0.166 $\chi^2$/NDF:114736.4/5

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 514.325+/-0.160 $\chi^2$/NDF:194650.4/5

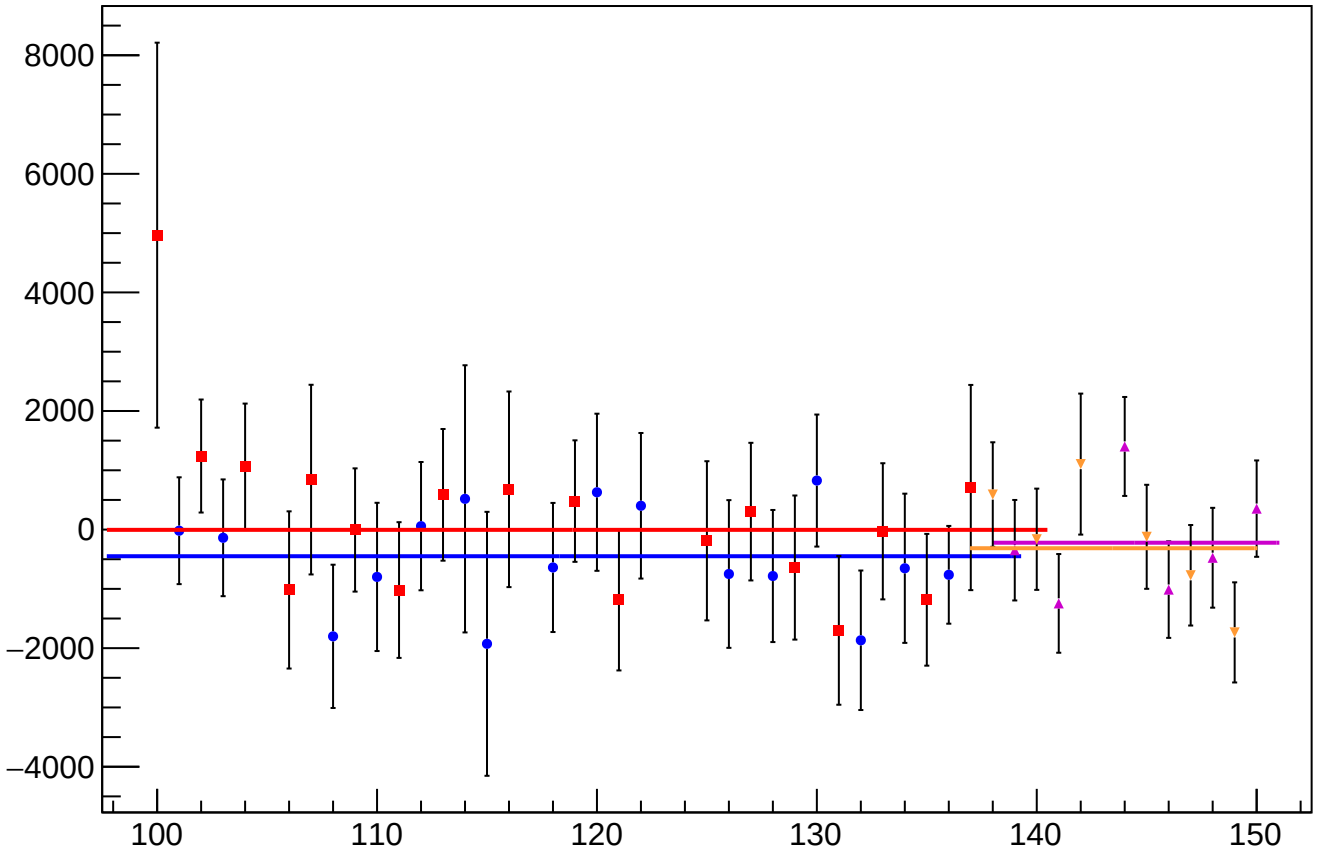
Left: 504.538+/-0.115 $\chi^2$/NDF: 317108.7/11

Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 587.037+/-0.122 $\chi^2$/NDF:1717418.0/21

Out: 574.406+/-0.124 $\chi^2$/NDF:1957739.7/23

All: 580.805+/-0.087 $\chi^2$/NDF: 3680436.3/45




Right In: -449.430+/-288.668 $\chi^2$/NDF: 6.8/15

Left Out: -314.510+/-366.155 $\chi^2$/NDF:5.7/5

Right Out: -4.645+/-287.815 $\chi^2$/NDF: 11.8/17

Left In: -221.784+/-338.958 $\chi^2$/NDF:6.9/5

Left: -264.576+/-248.739 $\chi^2$/NDF: 12.6/11

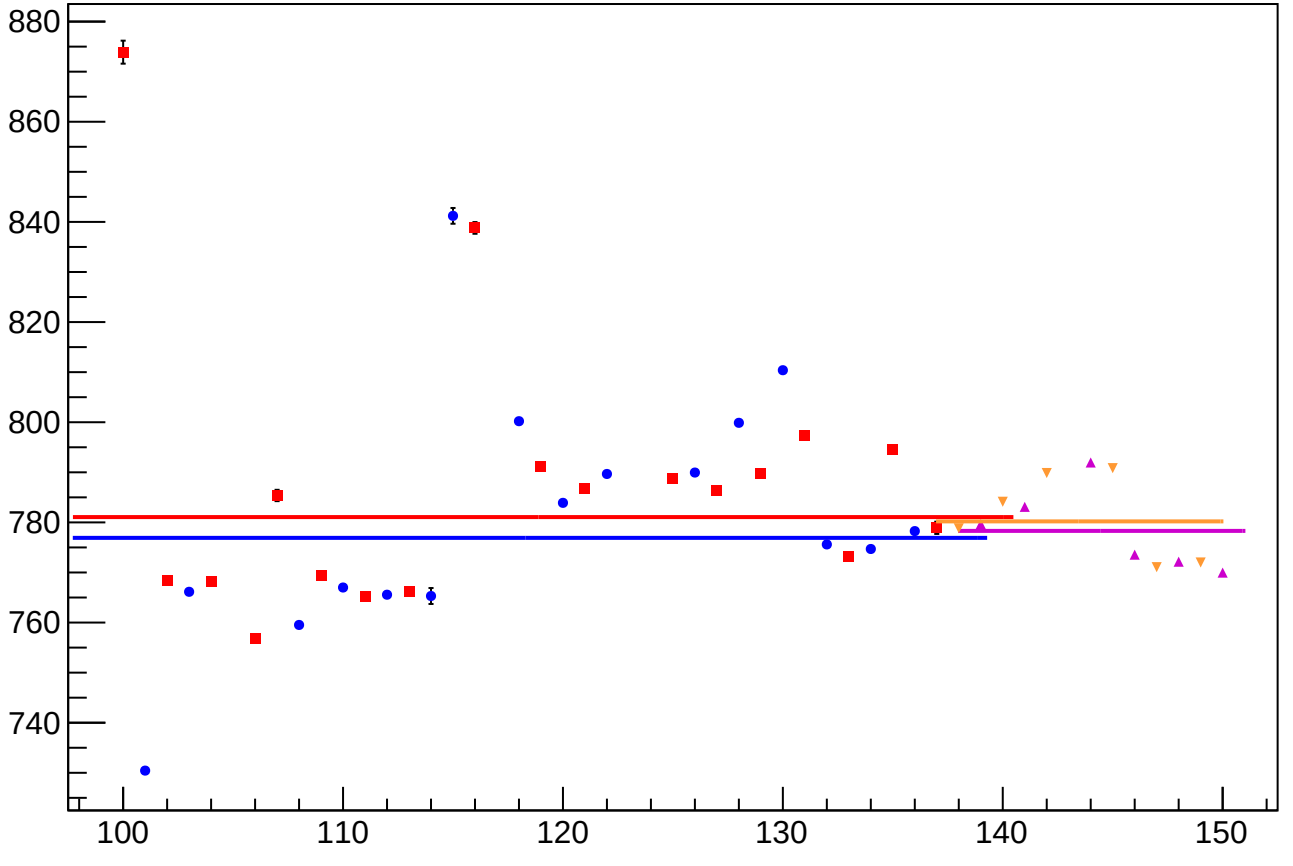
Right: -226.380+/-203.817 $\chi^2$/NDF: 19.8/33

In: -353.731+/-219.770 $\chi^2$/NDF:13.9/21

Out: -122.984+/-226.278 $\chi^2$/NDF:18.0/23

All: -241.723+/-157.651 $\chi^2$/NDF: 32.4/45

# overload_cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 776.913+/-0.204 $\chi^2$/NDF: 12123.6/15

Left Out: 780.202+/-0.259 $\chi^2$/NDF:894.1/5

Right Out: 781.061+/-0.204 $\chi^2$/NDF: 7585.8/17

Left In: 778.304+/-0.240 $\chi^2$/NDF:992.0/5

Left: 779.180+/-0.176 $\chi^2$/NDF: 1915.1/11

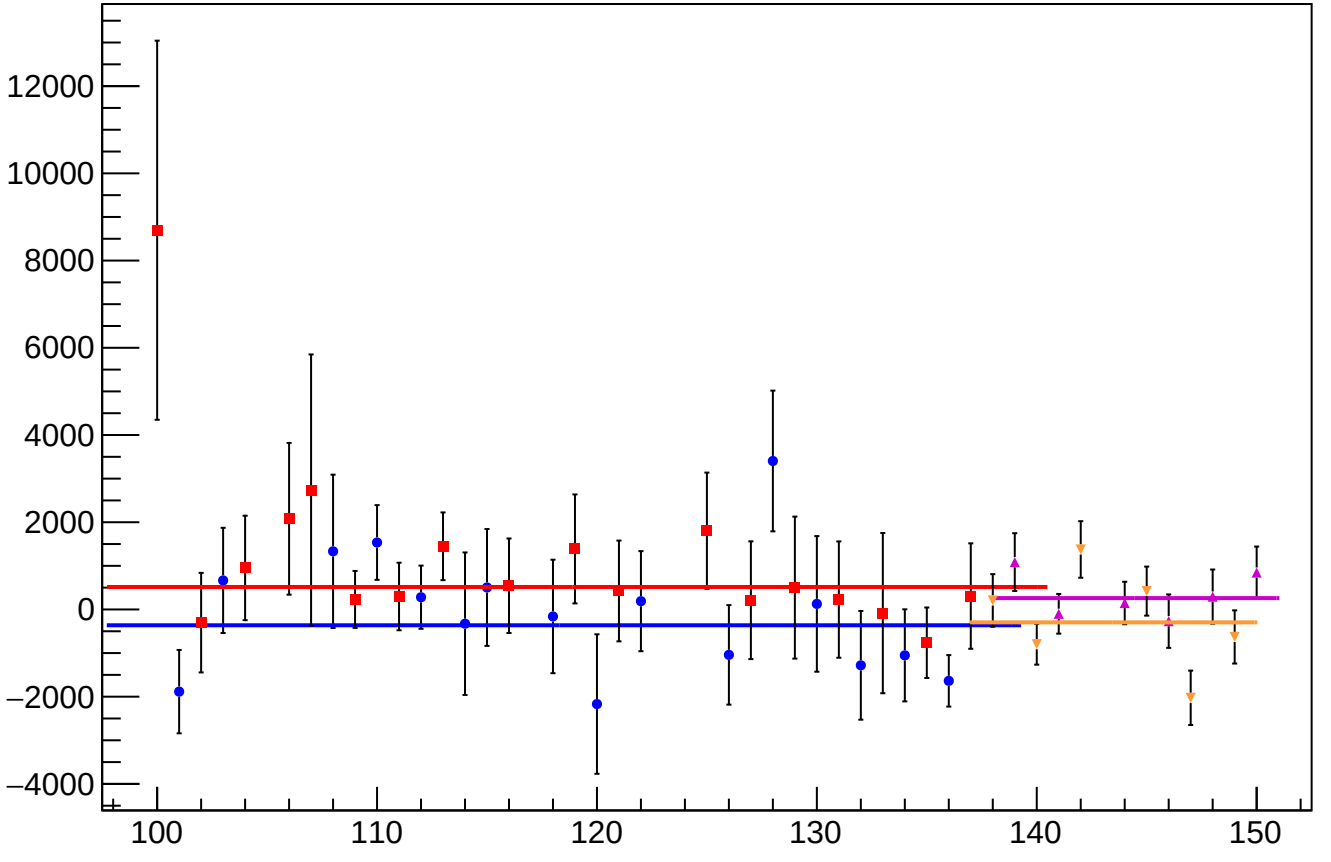
Right: 778.993+/-0.144 $\chi^2$/NDF: 19916.4/33

In: 777.498+/-0.155 $\chi^2$/NDF:13135.1/21

Out: 780.733+/-0.160 $\chi^2$/NDF:8486.7/23

All: 779.068+/-0.111 $\chi^2$/NDF: 21832.2/45

asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected




Right In: -362.811+/-267.086 $\chi^2$/NDF: 23.4/15

Left Out: -295.942+/-235.035 $\chi^2$/NDF:18.1/5

Right Out: 515.295+/-263.302 $\chi^2$/NDF: 11.4/17

Left In: 260.379+/-227.085 $\chi^2$/NDF:3.9/5

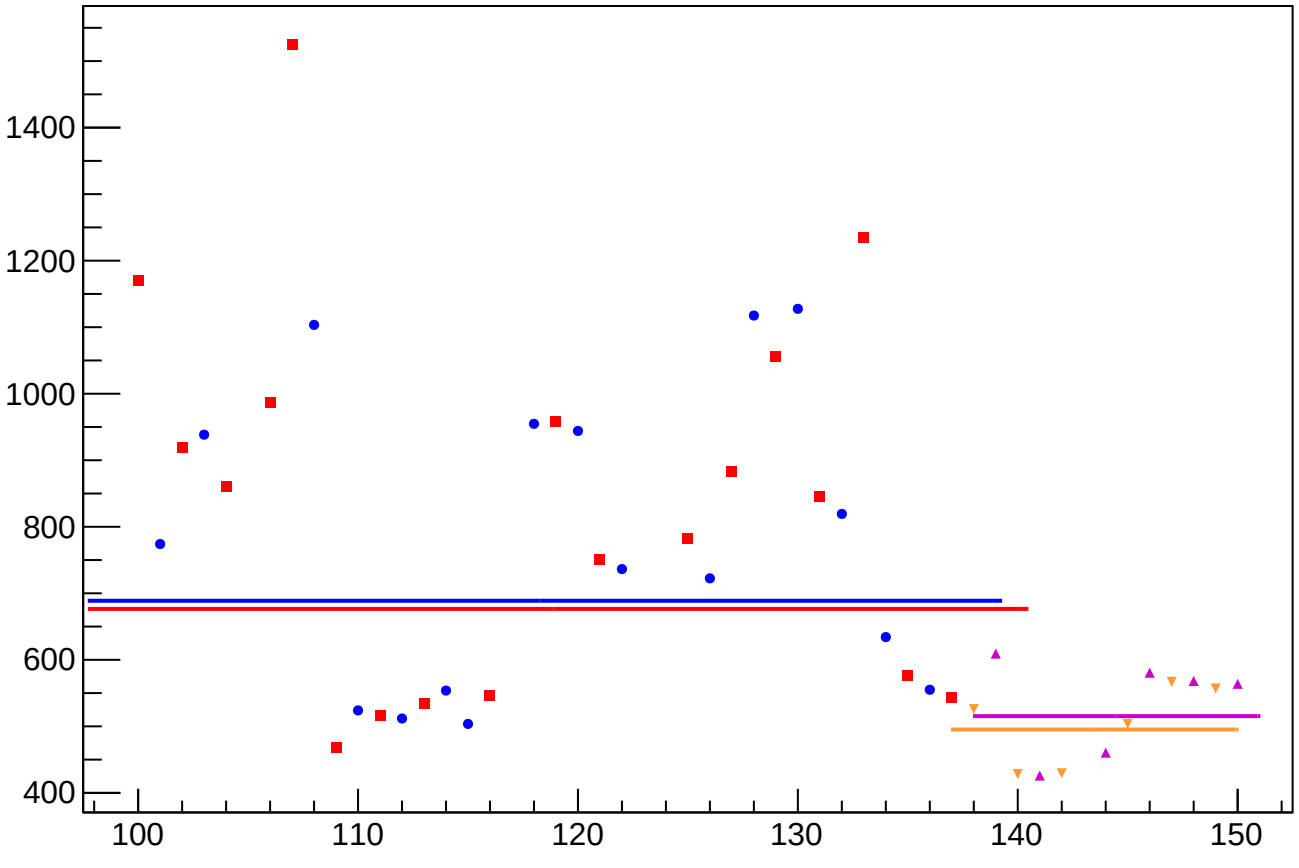
Left: -8.214+/-163.311 $\chi^2$/NDF: 24.9/11

Right: 82.506+/-187.506 $\chi^2$/NDF: 40.2/33

In: -1.100+/-173.005 $\chi^2$/NDF:30.5/21

Out: 63.808+/-175.340 $\chi^2$/NDF:34.8/23

All: 30.919+/-123.150 $\chi^2$/NDF: 65.3/45




Right In: 688.828+/-0.189 $\chi^2$/NDF: 1028118.5/15

Left Out: 495.276+/-0.166 $\chi^2$/NDF:113699.2/5

Right Out: 676.572+/-0.186 $\chi^2$/NDF: 1308036.1/17

Left In: 515.356+/-0.161 $\chi^2$/NDF:193320.2/5

Left: 505.661+/-0.115 $\chi^2$/NDF: 314569.8/11

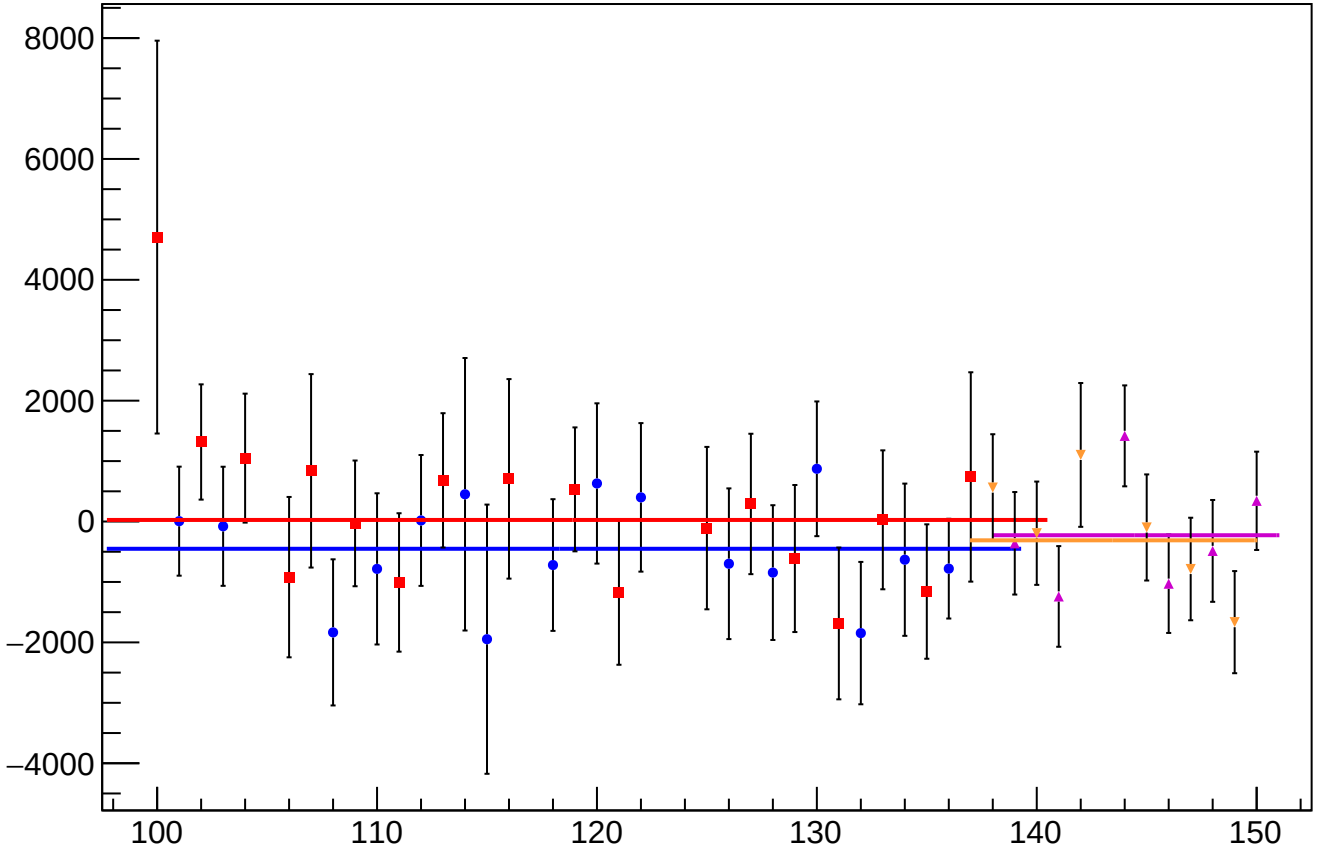
Right: 682.613+/-0.133 $\chi^2$/NDF: 2338290.5/33

In: 588.142+/-0.122 $\chi^2$/NDF:1711138.6/21

Out: 575.673+/-0.124 $\chi^2$/NDF:1949447.0/23

All: 581.991+/-0.087 $\chi^2$/NDF: 3665710.3/45

# eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -310.978+/-366.481 $\chi^2$/NDF:5.3/5

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -226.704+/-339.231 $\chi^2$/NDF:6.9/5

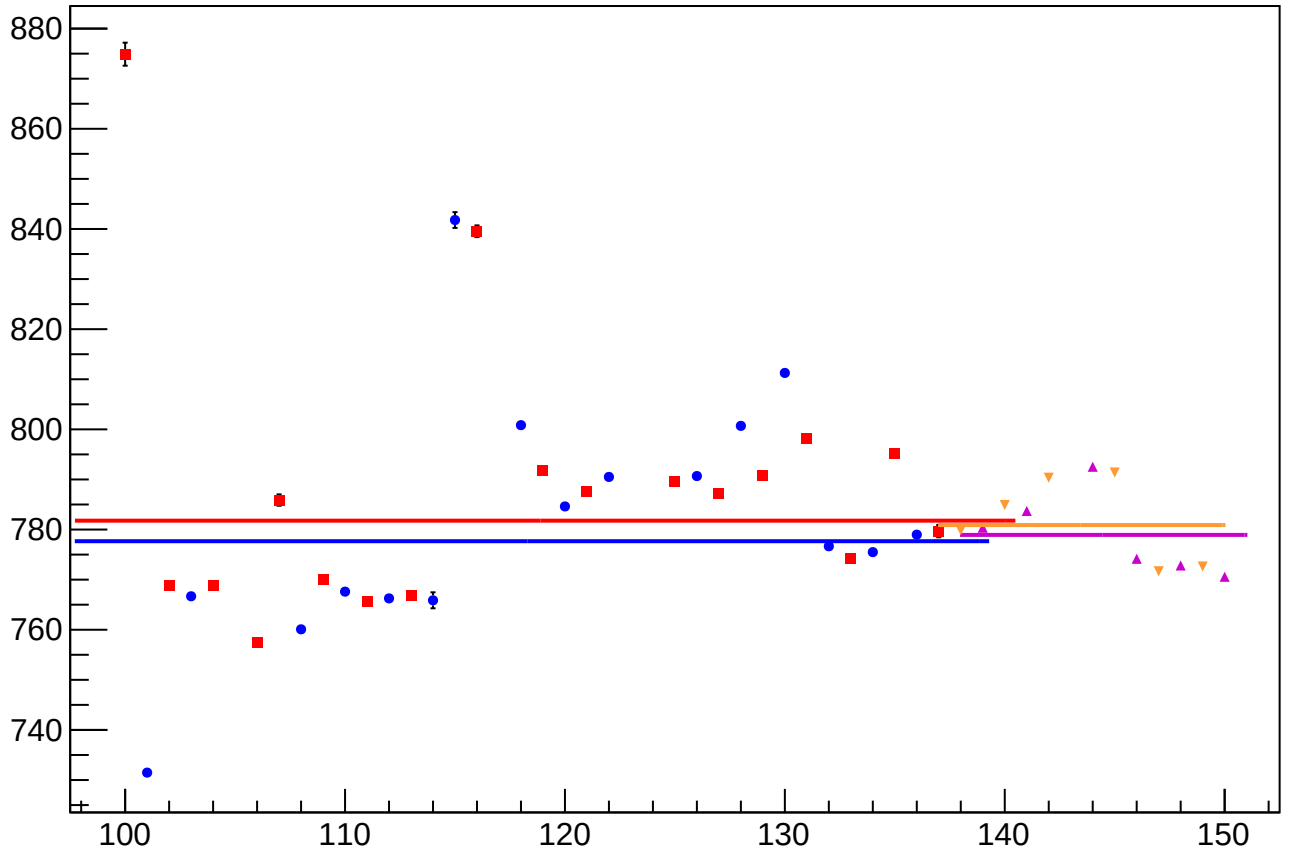
Left: -265.591+/-248.949 $\chi^2$/NDF: 12.3/11

Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -356.664+/-219.969 $\chi^2$/NDF:14.1/21

Out: -102.636+/-226.483 $\chi^2$/NDF:17.6/23

All: -233.355+/-157.794 $\chi^2$/NDF: 32.3/45




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 780.897+/-0.259 $\chi^2$/NDF:886.7/5

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 778.932+/-0.240 $\chi^2$/NDF:986.6/5

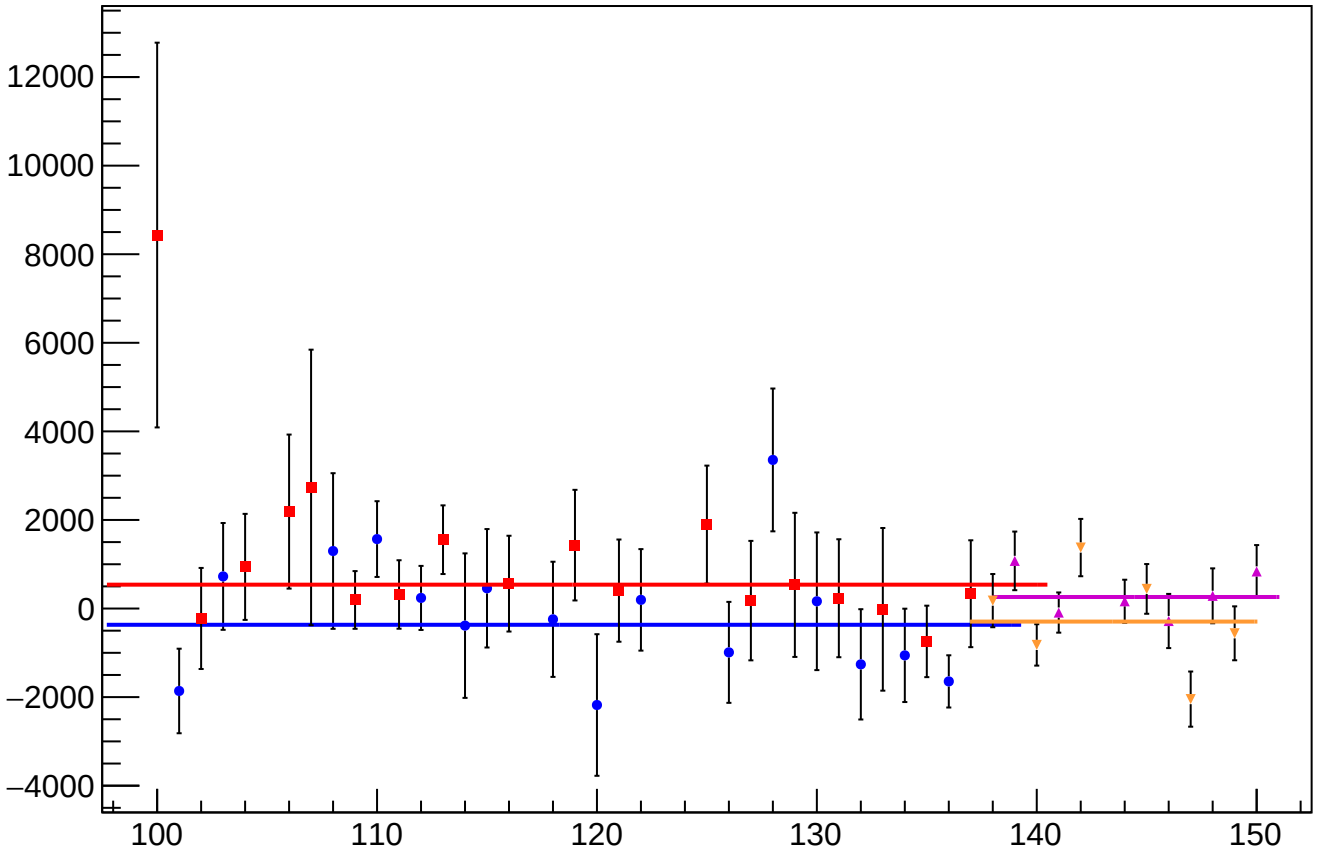
Left: 779.839+/-0.176 $\chi^2$/NDF: 1904.2/11

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 778.203+/-0.156 $\chi^2$/NDF:13057.9/21

Out: 781.441+/-0.160 $\chi^2$/NDF:8520.1/23

All: 779.775+/-0.112 $\chi^2$/NDF: 21788.3/45




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -294.503+/-234.483 $\chi^2$/NDF:18.4/5

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 260.554+/-226.648 $\chi^2$/NDF:3.9/5

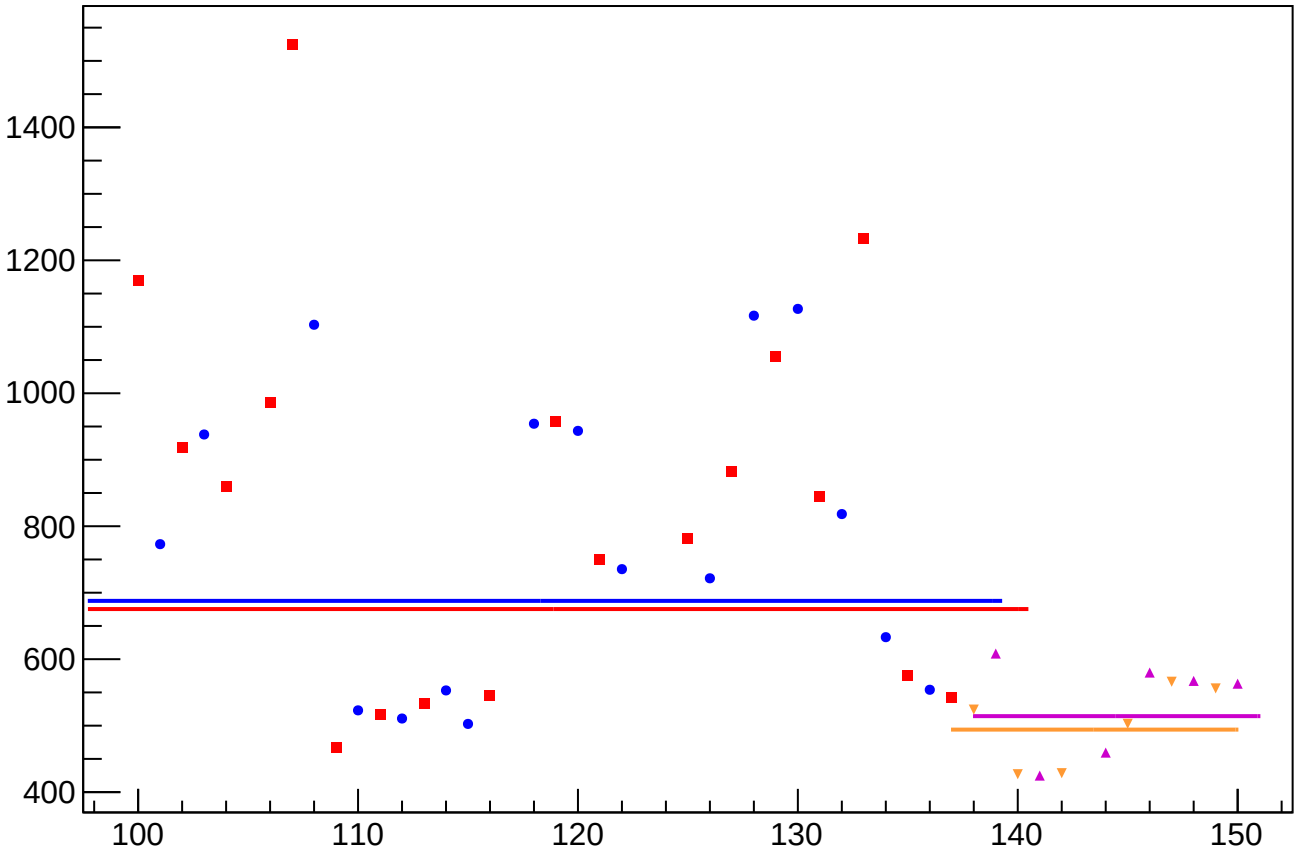
Left: -7.546+/-162.964 $\chi^2$/NDF: 25.2/11

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: -2.615+/-172.707 $\chi^2$/NDF:30.4/21

Out: 74.722+/-174.994 $\chi^2$/NDF:35.6/23

All: 35.545+/-122.923 $\chi^2$/NDF: 66.1/45




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 494.062+/-0.166 $\chi^2$/NDF:114736.4/5

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 514.325+/-0.160 $\chi^2$/NDF:194650.4/5

Left: 504.538+/-0.115 $\chi^2$/NDF: 317108.7/11

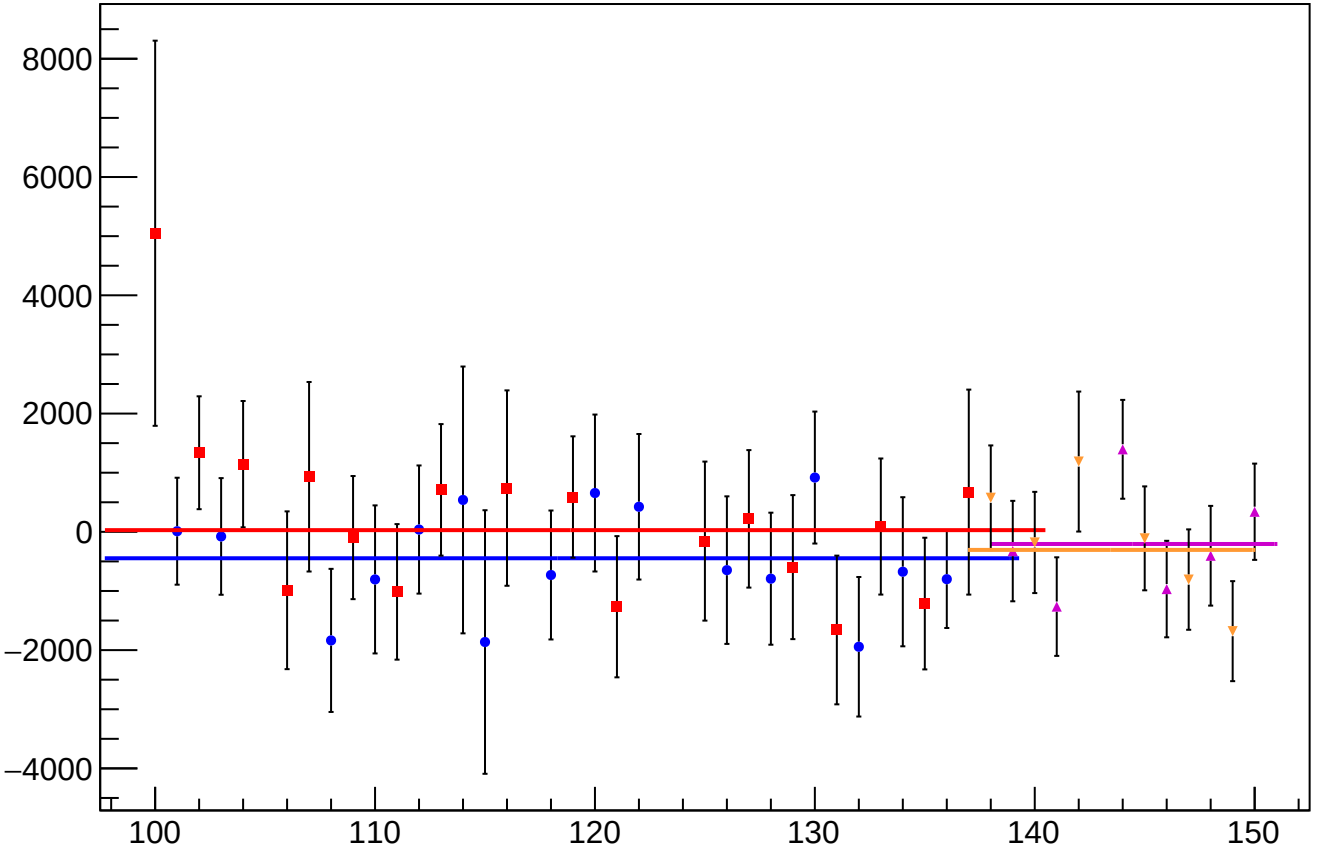
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 587.037+/-0.122 $\chi^2$/NDF:1717418.0/21

Out: 574.406+/-0.124 $\chi^2$/NDF:1957739.7/23

All: 580.805+/-0.087 $\chi^2$/NDF: 3680436.3/45

# dit_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -446.659+/-289.238 $\chi^2$/NDF: 7.3/15

Left Out: -305.477+/-366.693 $\chi^2$/NDF:5.6/5

Right Out: 28.787+/-288.372 $\chi^2$/NDF: 12.6/17

Left In: -205.246+/-339.509 $\chi^2$/NDF:6.7/5

Left: -251.508+/-249.126 $\chi^2$/NDF: 12.4/11

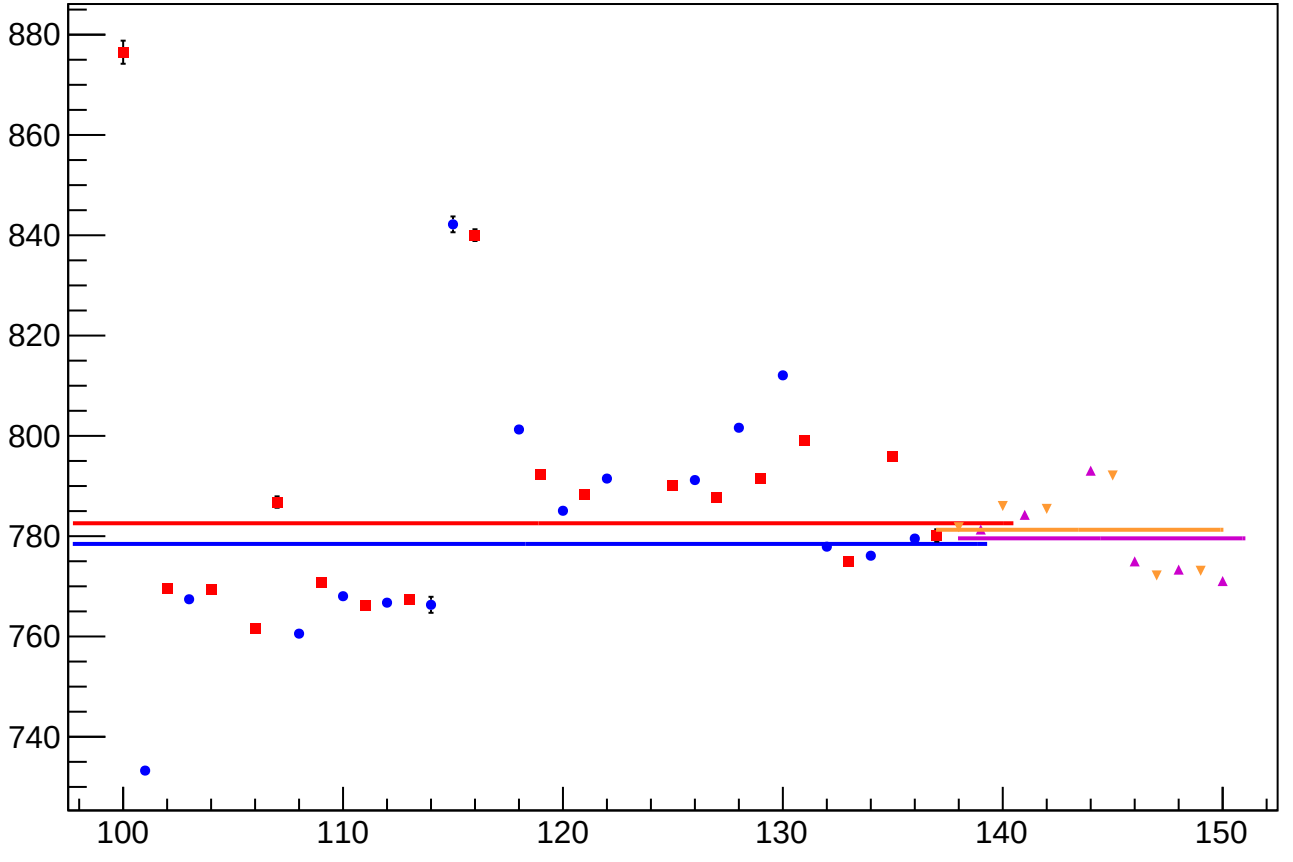
Right: -208.223+/-204.216 $\chi^2$/NDF: 21.3/33

In: -345.131+/-220.172 $\chi^2$/NDF:14.3/21

Out: -98.943+/-226.675 $\chi^2$/NDF:18.8/23

All: -225.619+/-157.934 $\chi^2$/NDF: 33.7/45

# dit_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 778.456+/-0.205 $\chi^2$/NDF: 11795.2/15

Left Out: 781.279+/-0.259 $\chi^2$/NDF:807.4/5

Right Out: 782.575+/-0.204 $\chi^2$/NDF: 7481.4/17

Left In: 779.568+/-0.240 $\chi^2$/NDF:984.4/5

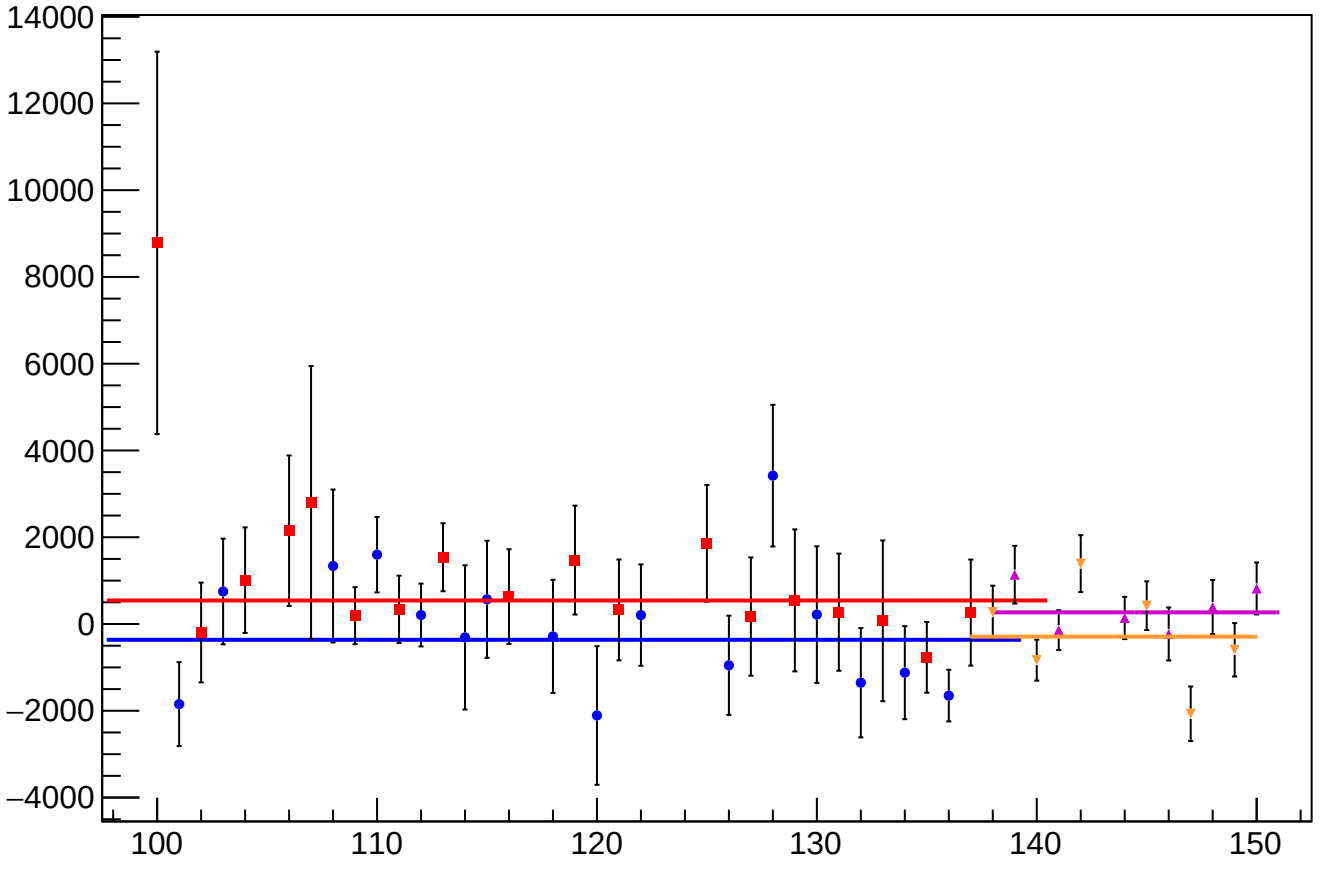
Left: 780.358+/-0.176 $\chi^2$/NDF: 1815.3/11

Right: 780.522+/-0.144 $\chi^2$/NDF: 19480.1/33

In: 778.924+/-0.156 $\chi^2$/NDF:12792.1/21

Out: 782.080+/-0.160 $\chi^2$/NDF:8304.3/23

All: 780.456+/-0.112 $\chi^2$/NDF: 21295.8/45




Right In: -363.977+/-269.316 $\chi^2$/NDF: 23.3/15

Left Out: -291.923+/-236.771 $\chi^2$/NDF:18.6/5

Right Out: 542.879+/-265.273 $\chi^2$/NDF: 11.8/17

Left In: 268.427+/-227.835 $\chi^2$/NDF:4.1/5

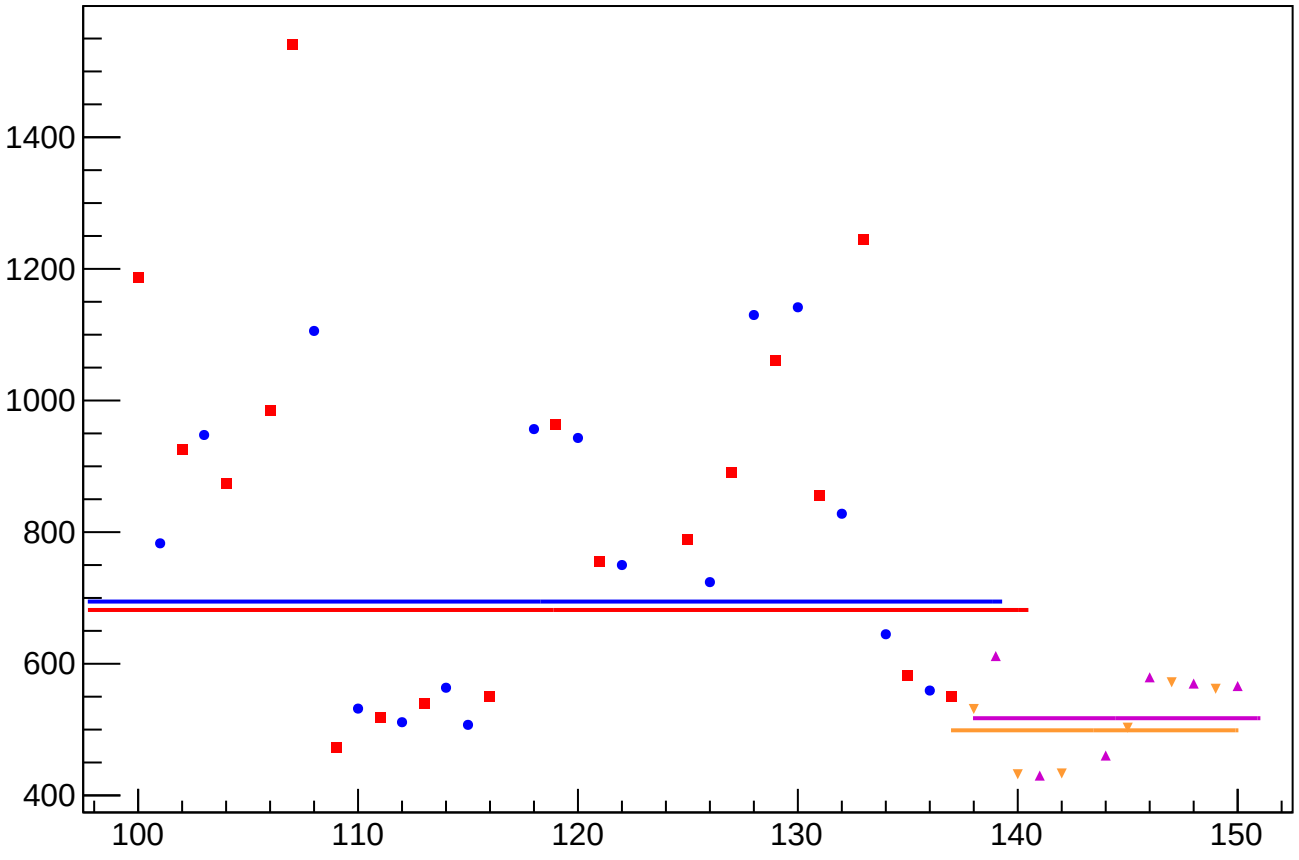
Left: -0.974+/-164.172 $\chi^2$/NDF: 25.6/11

Right: 96.308+/-188.989 $\chi^2$/NDF: 40.8/33

In: 4.626+/-173.941 $\chi^2$/NDF:30.6/21

Out: 78.237+/-176.643 $\chi^2$/NDF:35.9/23

All: 40.864+/-123.939 $\chi^2$/NDF: 66.6/45




Right In: 694.522+/-0.190 $\chi^2$/NDF: 1029884.9/15

Left Out: 498.895+/-0.167 $\chi^2$/NDF:113583.3/5

Right Out: 681.744+/-0.188 $\chi^2$/NDF: 1311322.6/17

Left In: 517.283+/-0.161 $\chi^2$/NDF:187861.6/5

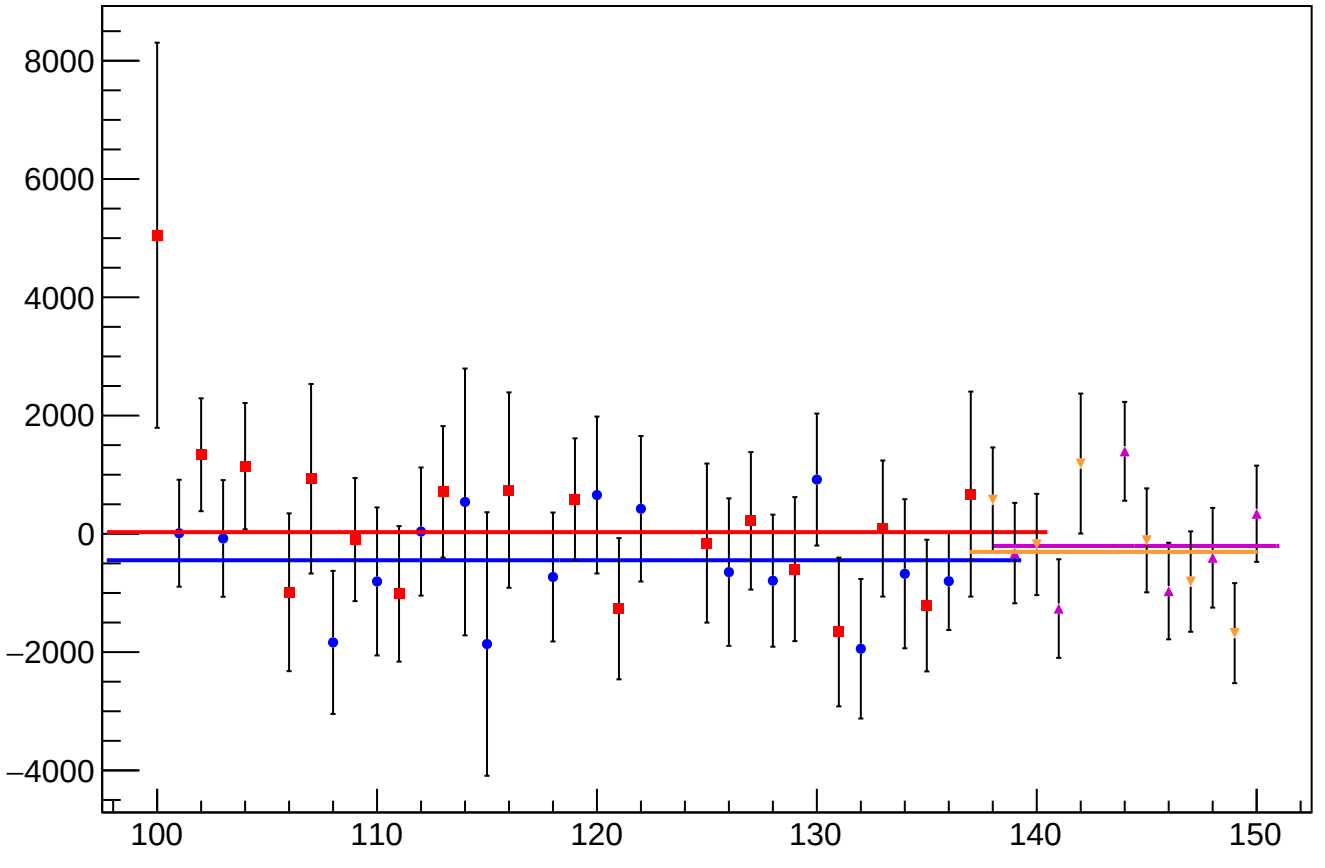
Left: 508.442+/-0.116 $\chi^2$/NDF: 307708.5/11

Right: 688.036+/-0.134 $\chi^2$/NDF: 2343492.9/33

In: 591.217+/-0.123 $\chi^2$/NDF:1722629.5/21

Out: 579.972+/-0.125 $\chi^2$/NDF:1953793.7/23

All: 585.681+/-0.088 $\chi^2$/NDF: 3680538.1/45




Right In: -446.659+/-289.238 $\chi^2$/NDF: 7.3/15

Left Out: -305.479+/-366.693 $\chi^2$/NDF:5.6/5

Right Out: 28.786+/-288.372 $\chi^2$/NDF: 12.6/17

Left In: -205.244+/-339.509 $\chi^2$/NDF:6.7/5

Left: -251.509+/-249.126 $\chi^2$/NDF: 12.4/11

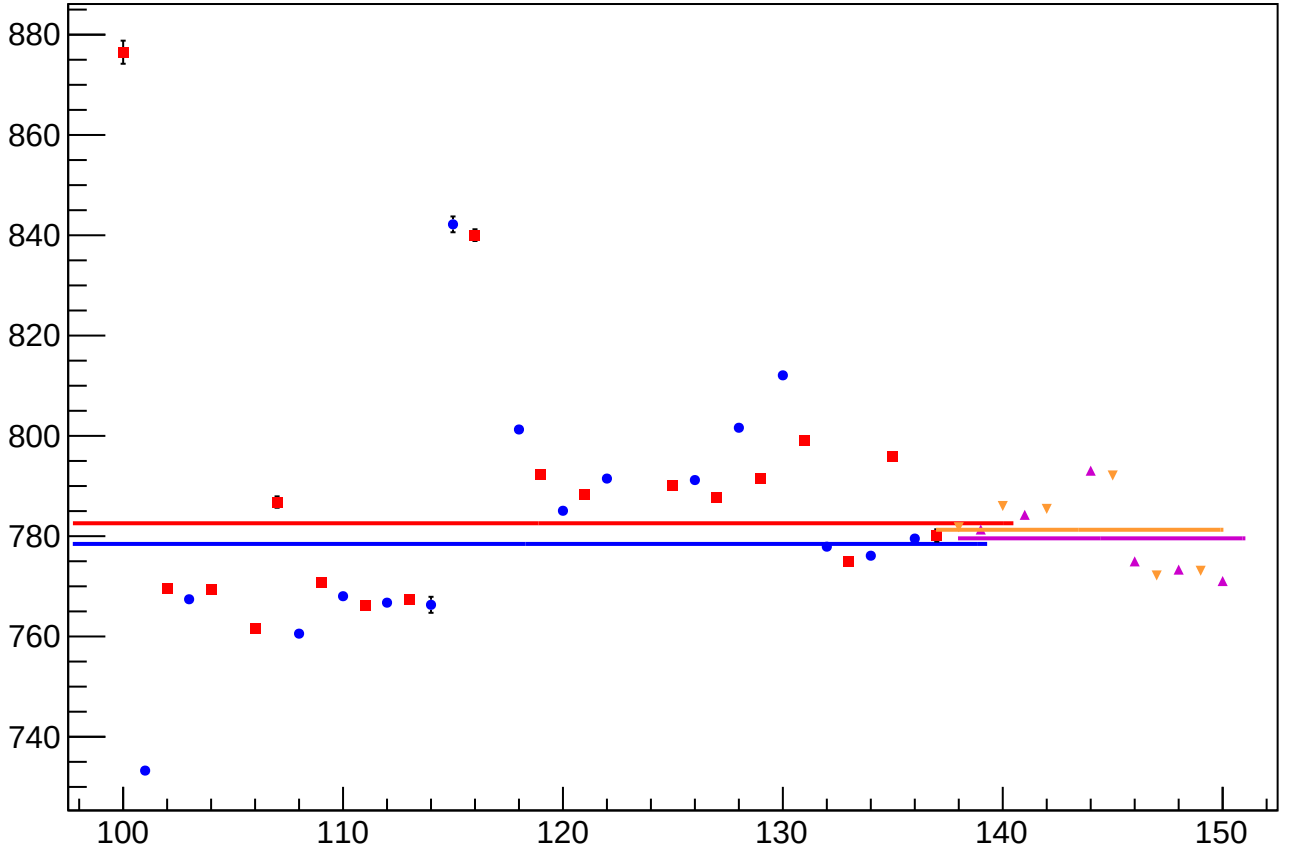
Right: -208.224+/-204.216 $\chi^2$/NDF: 21.3/33

In: -345.131+/-220.172 $\chi^2$/NDF:14.3/21

Out: -98.945+/-226.675 $\chi^2$/NDF:18.8/23

All: -225.620+/-157.934 $\chi^2$/NDF: 33.7/45

# eigen_dit_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 778.456+/-0.205 $\chi^2$/NDF: 11795.2/15

Left Out: 781.279+/-0.259 $\chi^2$/NDF:807.4/5

Right Out: 782.575+/-0.204 $\chi^2$/NDF: 7481.4/17

Left In: 779.568+/-0.240 $\chi^2$/NDF:984.4/5

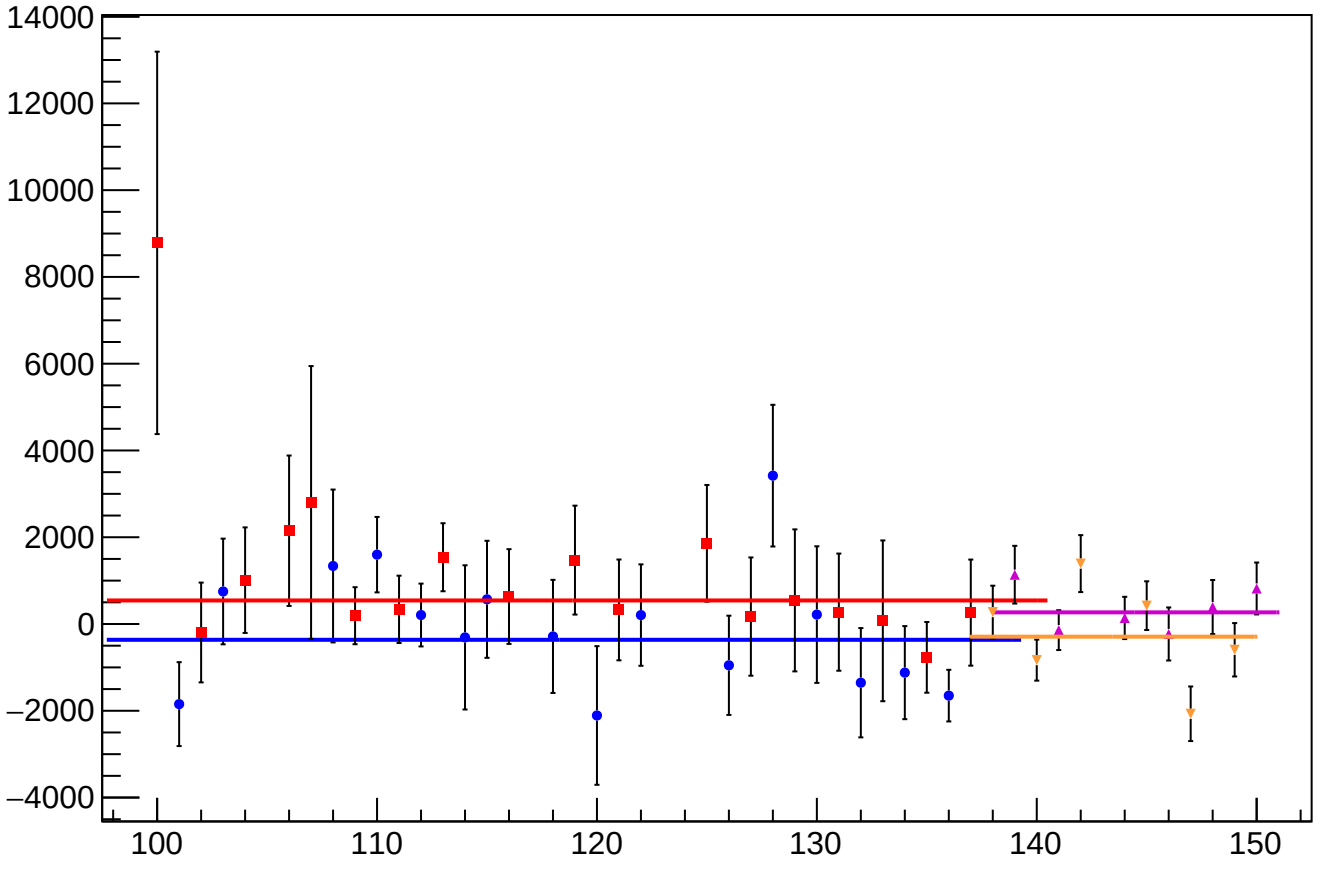
Left: 780.358+/-0.176 $\chi^2$/NDF: 1815.3/11

Right: 780.522+/-0.144 $\chi^2$/NDF: 19480.0/33

In: 778.924+/-0.156 $\chi^2$/NDF:12792.0/21

Out: 782.080+/-0.160 $\chi^2$/NDF:8304.3/23

All: 780.456+/-0.112 $\chi^2$/NDF: 21295.8/45




Right In: -363.973+/-269.314 $\chi^2$/NDF: 23.3/15

Left Out: -291.924+/-236.771 $\chi^2$/NDF:18.6/5

Right Out: 542.878+/-265.272 $\chi^2$/NDF: 11.8/17

Left In: 268.425+/-227.835 $\chi^2$/NDF:4.1/5

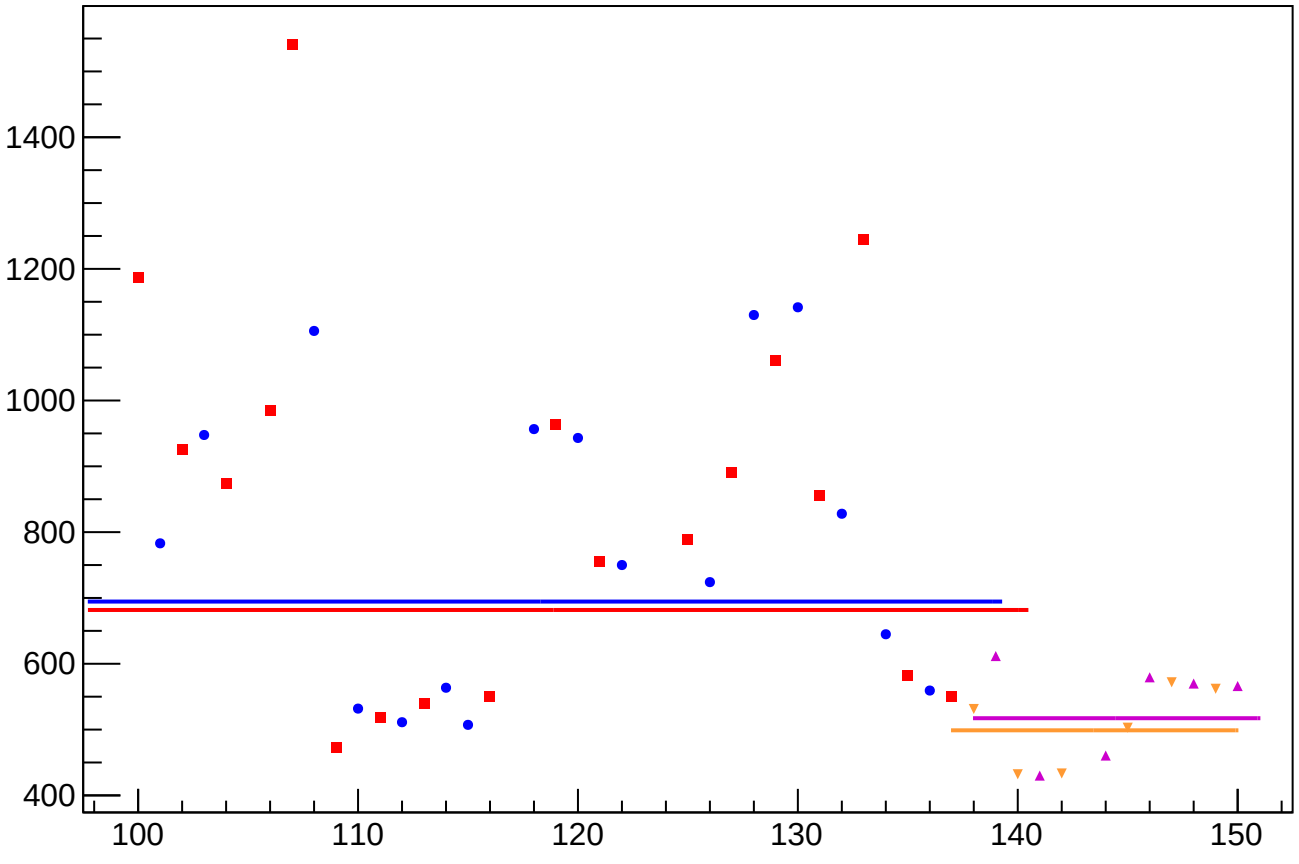
Left: -0.976+/-164.172 $\chi^2$/NDF: 25.6/11

Right: 96.309+/-188.989 $\chi^2$/NDF: 40.8/33

In: 4.625+/-173.941 $\chi^2$/NDF:30.6/21

Out: 78.237+/-176.643 $\chi^2$/NDF:35.9/23

All: 40.864+/-123.939 $\chi^2$/NDF: 66.6/45




Right In: 694.519+/-0.190 $\chi^2$/NDF: 1029897.1/15

Left Out: 498.894+/-0.167 $\chi^2$/NDF:113590.2/5

Right Out: 681.740+/-0.188 $\chi^2$/NDF: 1311342.6/17

Left In: 517.283+/-0.161 $\chi^2$/NDF:187870.2/5

Left: 508.442+/-0.116 $\chi^2$/NDF: 307724.1/11

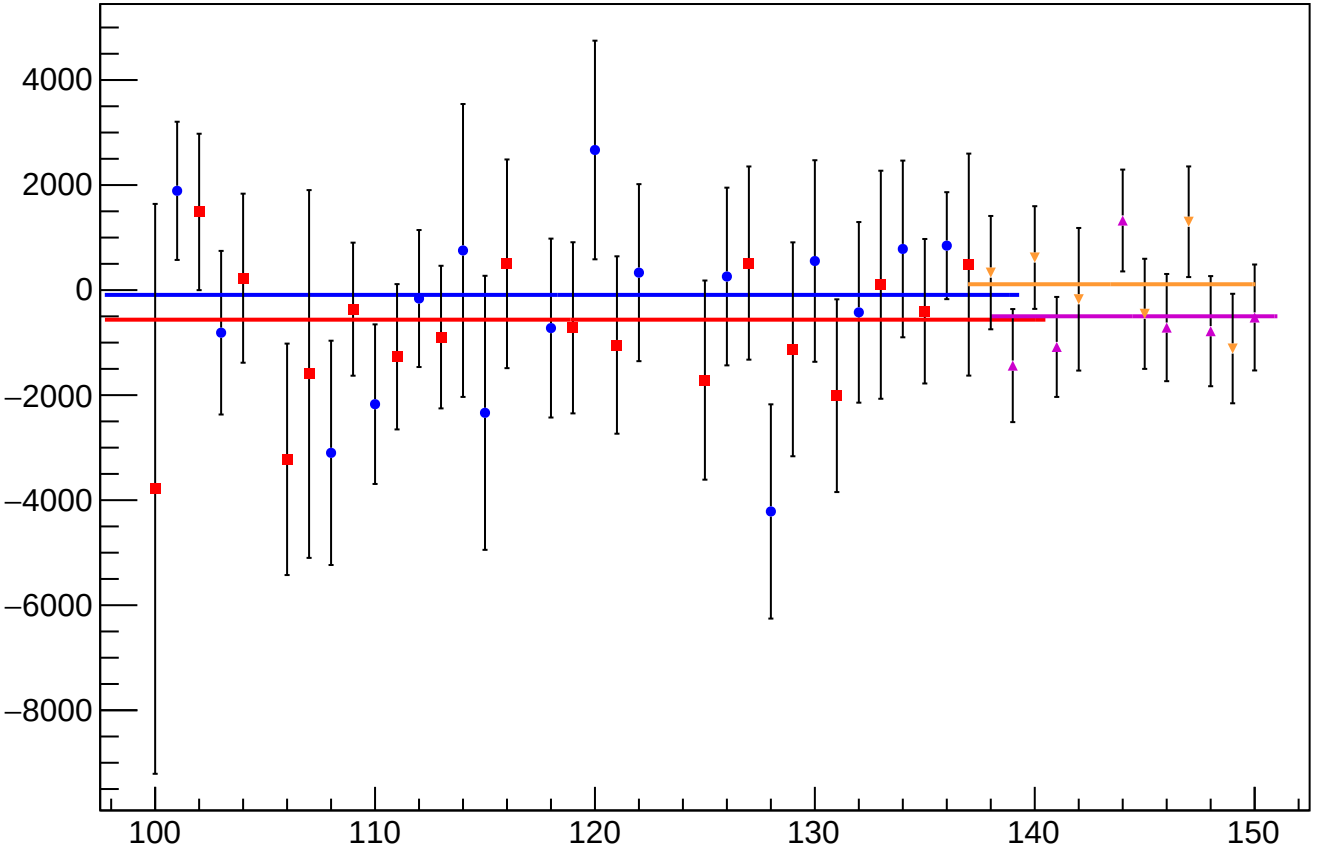
Right: 688.033+/-0.134 $\chi^2$/NDF: 2343525.0/33

In: 591.216+/-0.123 $\chi^2$/NDF:1722633.9/21

Out: 579.970+/-0.125 $\chi^2$/NDF:1953806.3/23

All: 585.680+/-0.088 $\chi^2$/NDF: 3680555.2/45

# asym_us_dd_mean vs Slug, Sign Corrected




Right In: -91.305+/-409.957 $\chi^2$/NDF: 14.5/15

Left Out: 111.340+/-439.434 $\chi^2$/NDF:3.3/5

Right Out: -563.292+/-411.565 $\chi^2$/NDF: 6.5/17

Left In: -498.688+/-412.306 $\chi^2$/NDF:4.8/5

Left: -213.084+/-300.677 $\chi^2$/NDF: 9.1/11

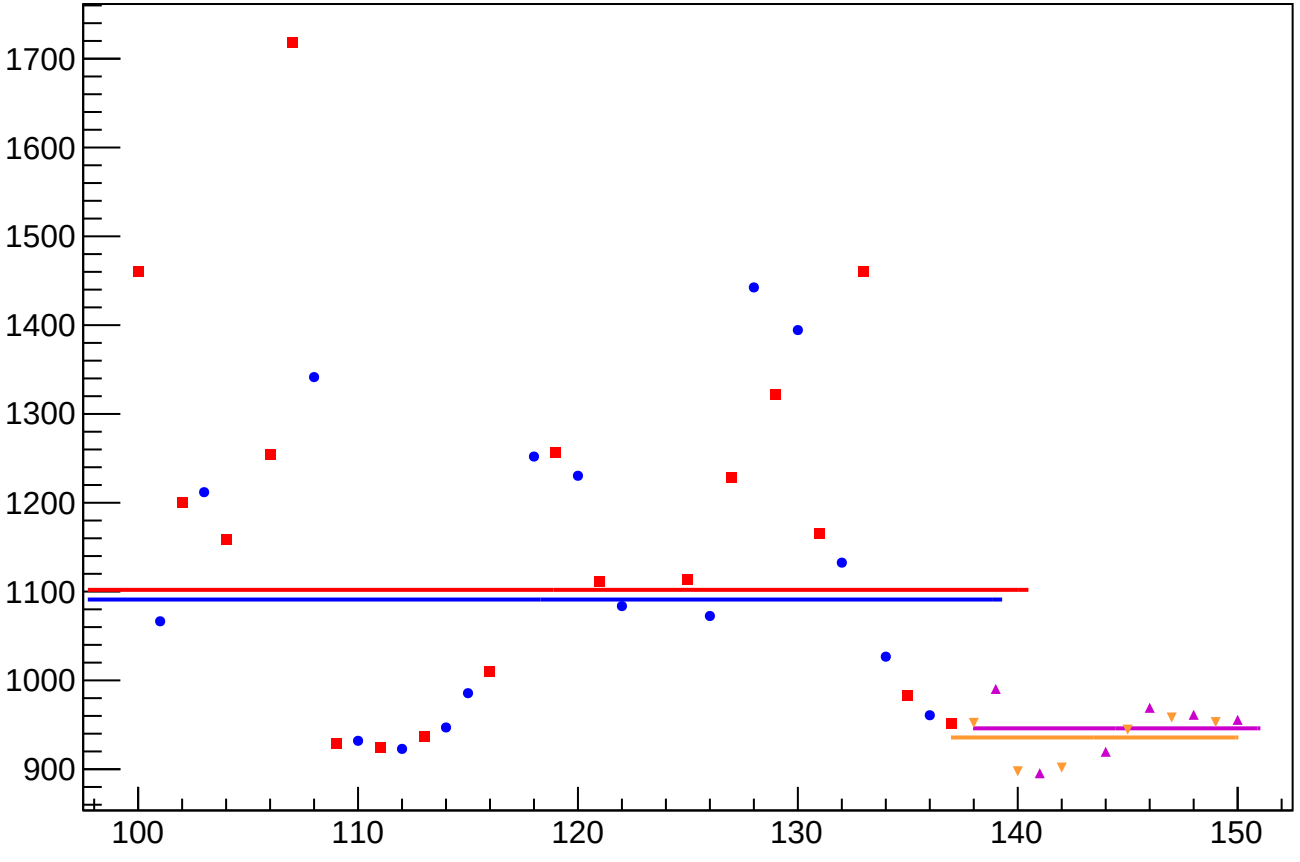
Right: -326.374+/-290.450 $\chi^2$/NDF: 21.7/33

In: -293.832+/-290.710 $\chi^2$/NDF:19.8/21

Out: -248.045+/-300.390 $\chi^2$/NDF:11.1/23

All: -271.689+/-208.901 $\chi^2$/NDF: 30.9/45

# asym_us_dd_rms vs Slug, Sign Corrected




Right In: 1091.041+/-0.290 $\chi^2$/NDF: 277304.9/15

Left Out: 935.726+/-0.311 $\chi^2$/NDF:6350.3/5

Right Out: 1101.953+/-0.291 $\chi^2$/NDF: 328107.6/17

Left In: 946.025+/-0.292 $\chi^2$/NDF:12140.2/5

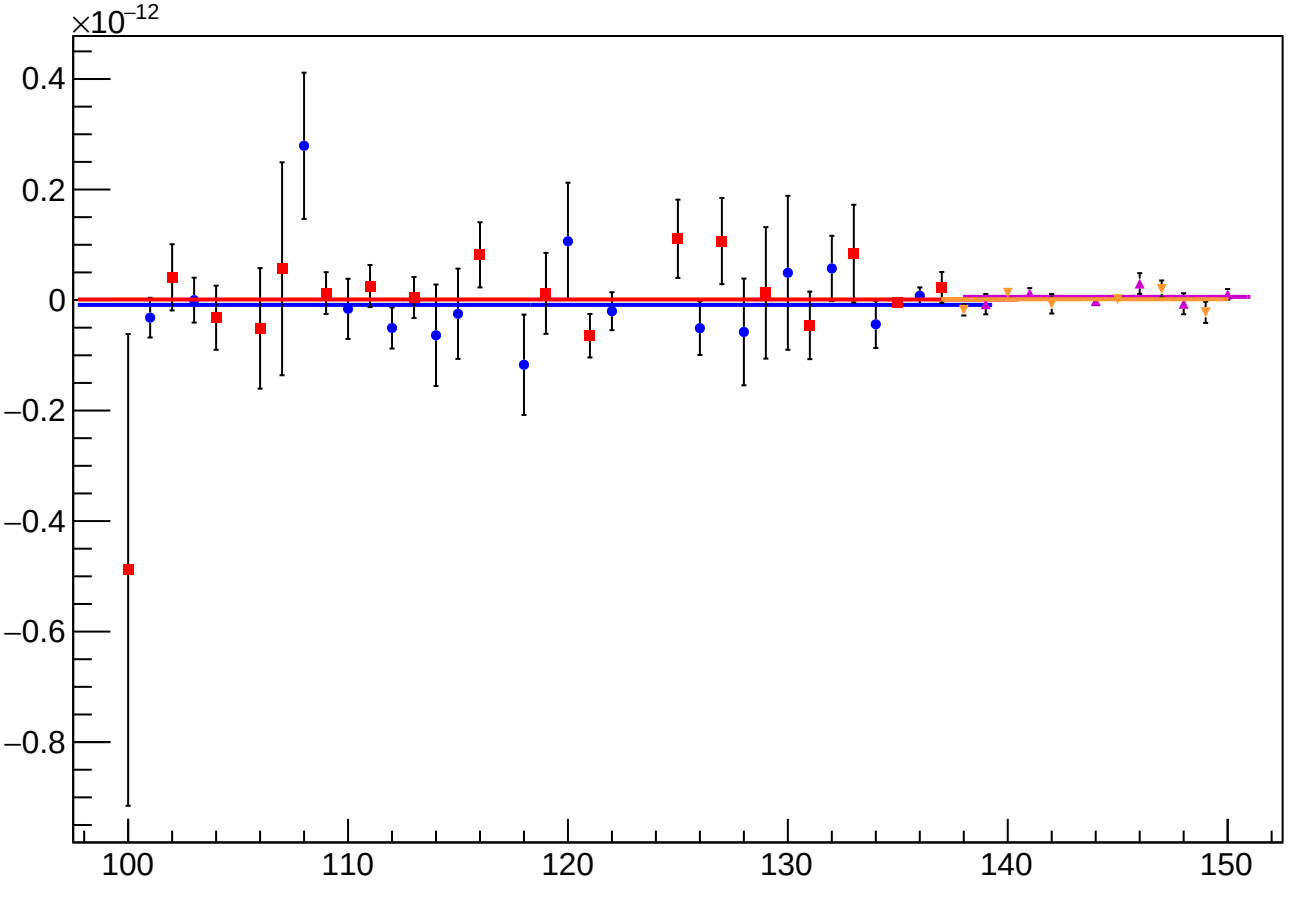
Left: 941.203+/-0.213 $\chi^2$/NDF: 19074.8/11

Right: 1096.476+/-0.205 $\chi^2$/NDF: 606118.2/33

In: 1018.947+/-0.206 $\chi^2$/NDF:413858.0/21

Out: 1024.277+/-0.212 $\chi^2$/NDF:486912.5/23

All: 1021.525+/-0.148 $\chi^2$/NDF: 901095.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.2/5

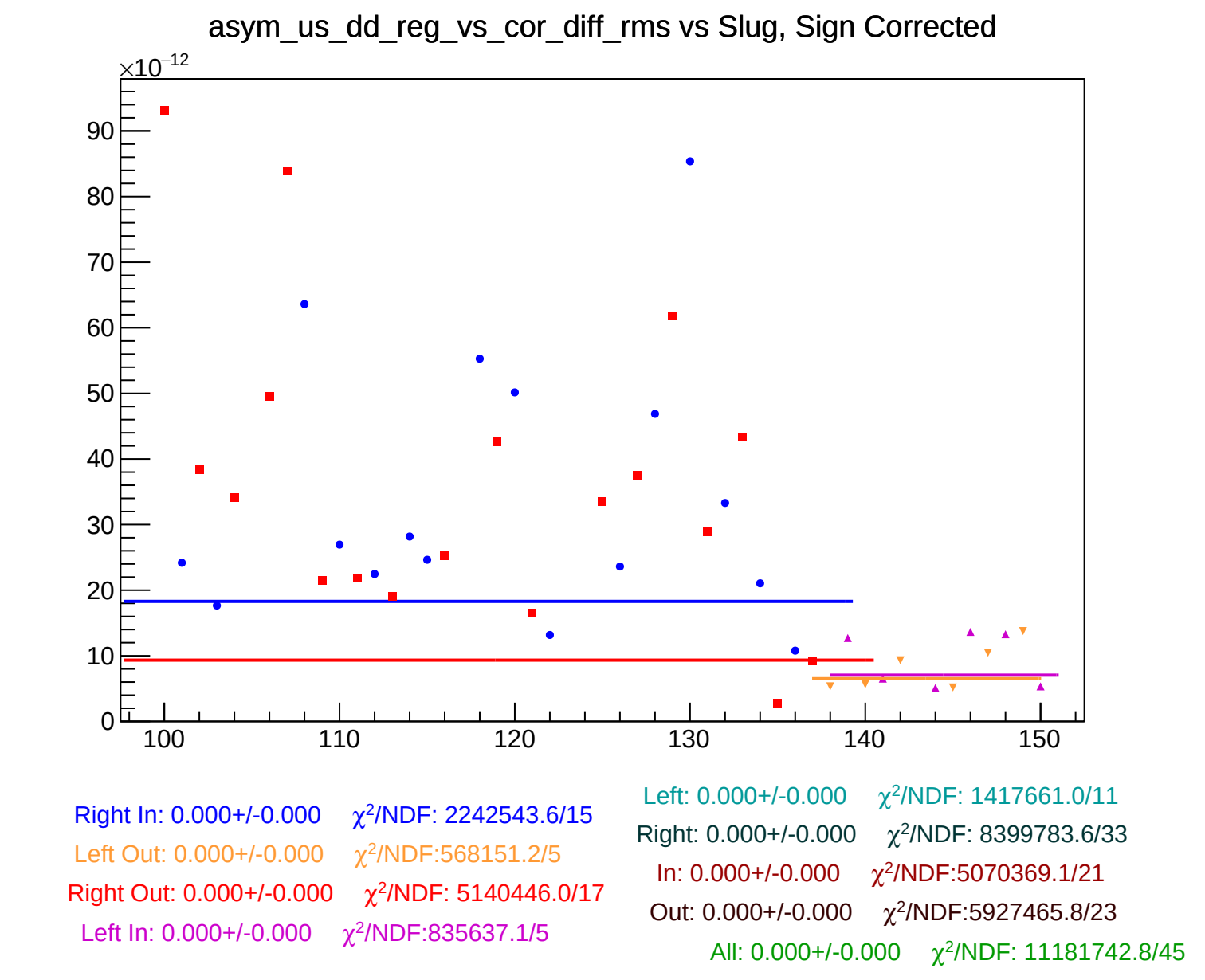
Left: 0.000+/-0.000 $\chi^2$/NDF: 13.5/11

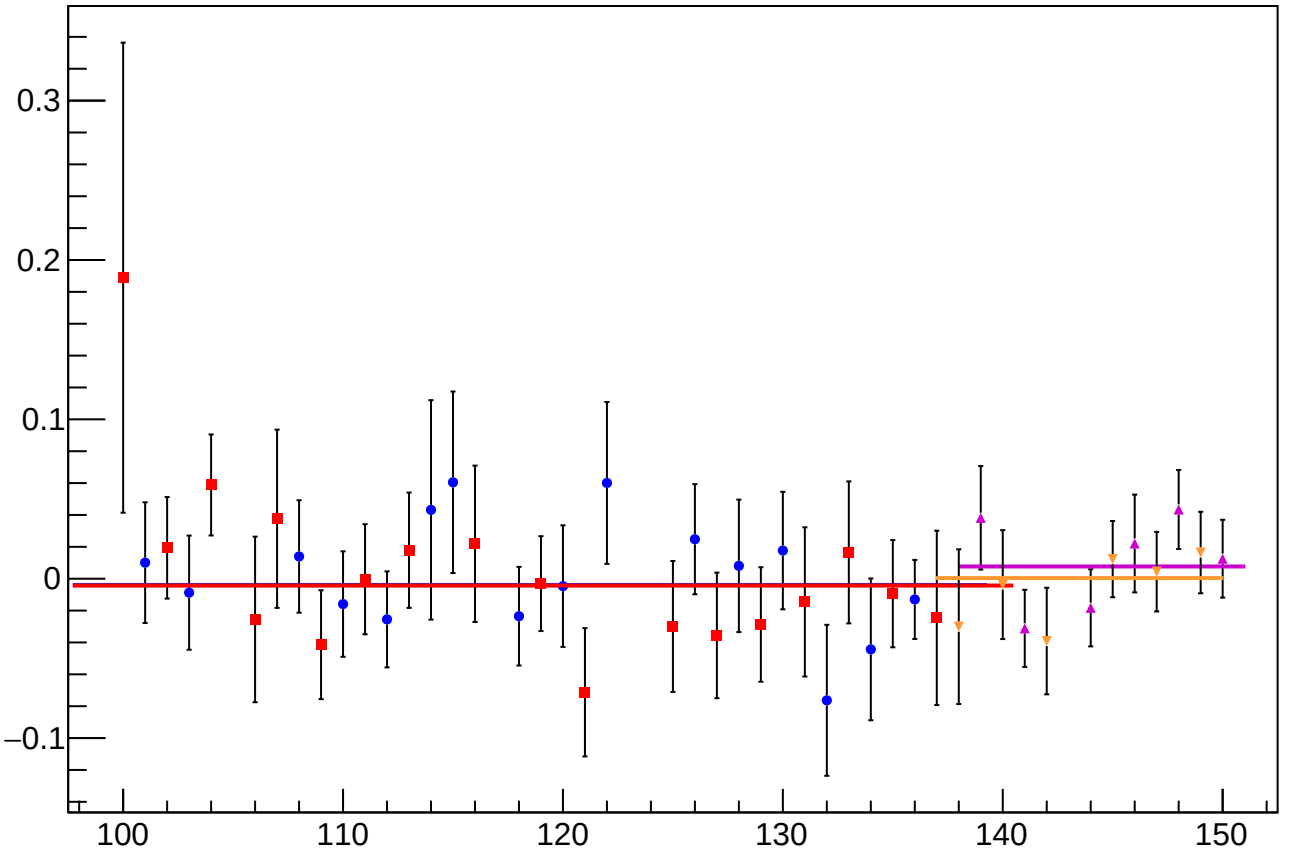
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:19.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 43.0/45


asym_us_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2242543.6/15
Left Out: 0.000+/-0.000 χ²/NDF:568151.2/5
Right Out: 0.000+/-0.000 χ²/NDF: 5140446.0/17
Left In: 0.000+/-0.000 χ²/NDF:835637.1/5
Left: 0.000+/-0.000 χ²/NDF: 1417661.0/11
Right: 0.000+/-0.000 χ²/NDF: 8399783.6/33
In: 0.000+/-0.000 χ²/NDF:5070369.1/21
Out: 0.000+/-0.000 χ²/NDF:5927465.8/23
All: 0.000+/-0.000 χ²/NDF: 11181742.8/45




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: 0.000+/-0.012 $\chi^2$/NDF:2.5/5

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:7.0/5

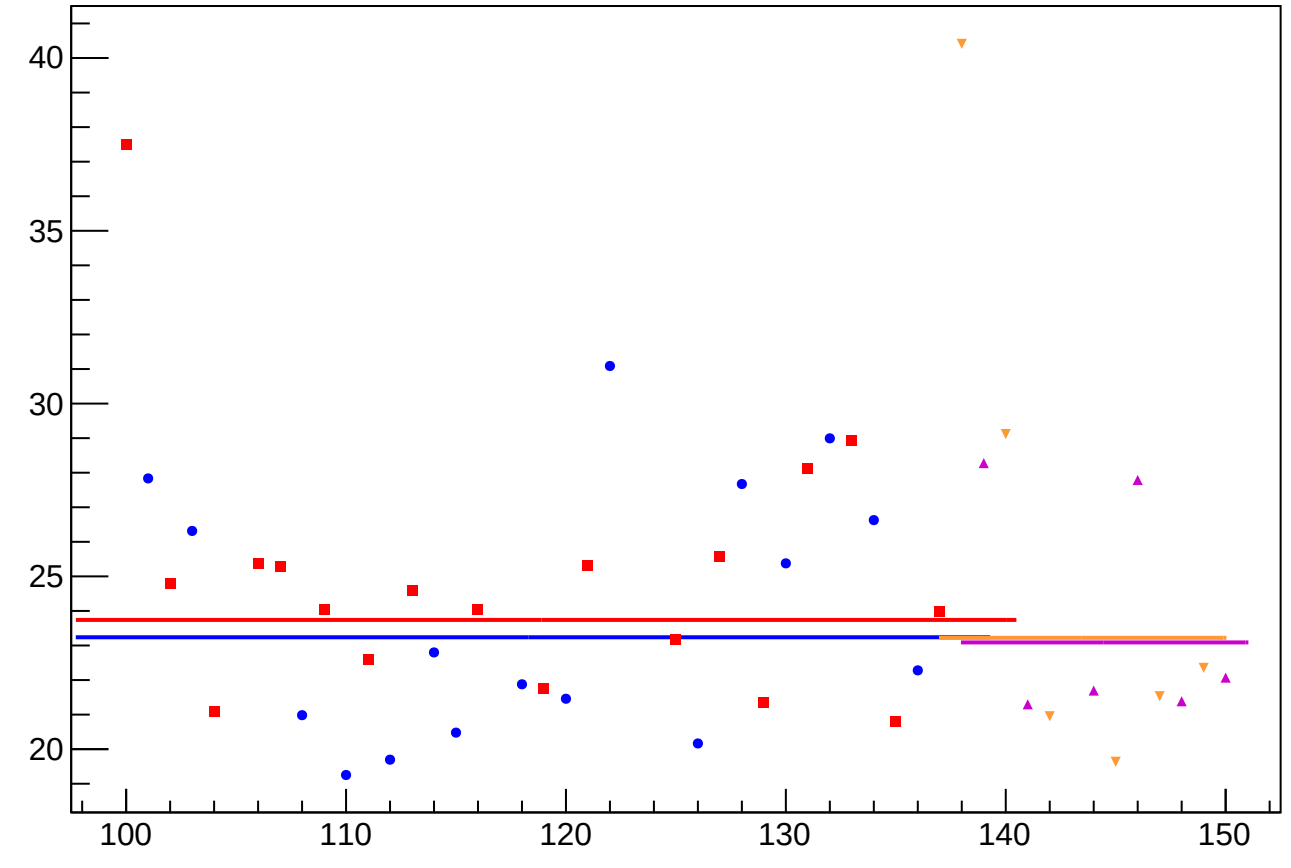
Left: 0.004+/-0.008 $\chi^2$/NDF: 9.6/11

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.001+/-0.007 $\chi^2$/NDF:16.8/21

Out: -0.003+/-0.007 $\chi^2$/NDF:16.1/23

All: -0.001+/-0.005 $\chi^2$/NDF: 33.0/45




Right In: 23.238+/-0.007 $\chi^2$/NDF: 259235.5/15

Left Out: 23.222+/-0.008 $\chi^2$/NDF:375752.0/5

Right Out: 23.740+/-0.007 $\chi^2$/NDF: 126183.6/17

Left In: 23.089+/-0.008 $\chi^2$/NDF:128500.2/5

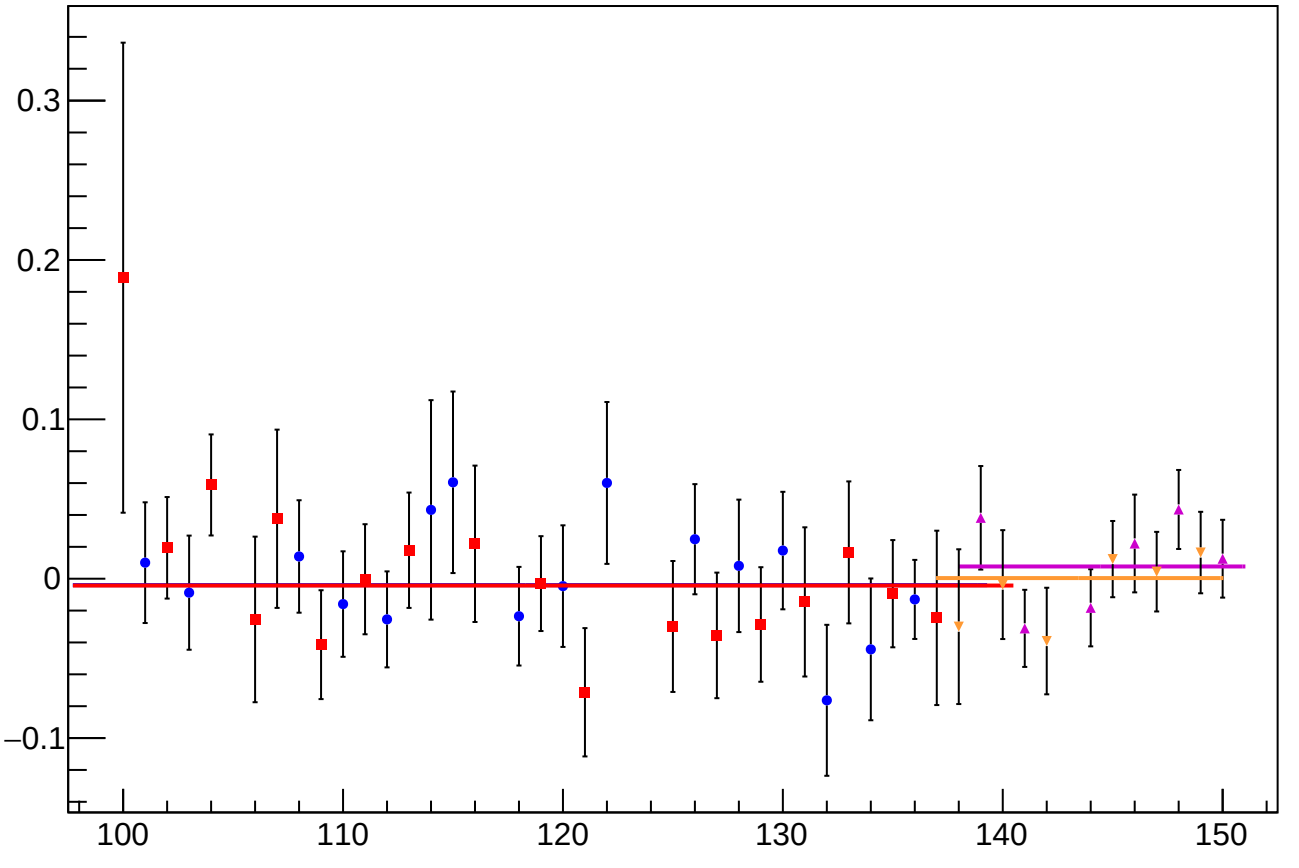
Left: 23.149+/-0.006 $\chi^2$/NDF: 504391.1/11

Right: 23.488+/-0.005 $\chi^2$/NDF: 388343.8/33

In: 23.174+/-0.005 $\chi^2$/NDF:387957.5/21

Out: 23.544+/-0.005 $\chi^2$/NDF:504282.9/23

All: 23.350+/-0.004 $\chi^2$/NDF: 894894.6/45




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: 0.000+/-0.012 $\chi^2$/NDF:2.5/5

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:7.0/5

Left: 0.004+/-0.008 $\chi^2$/NDF: 9.6/11

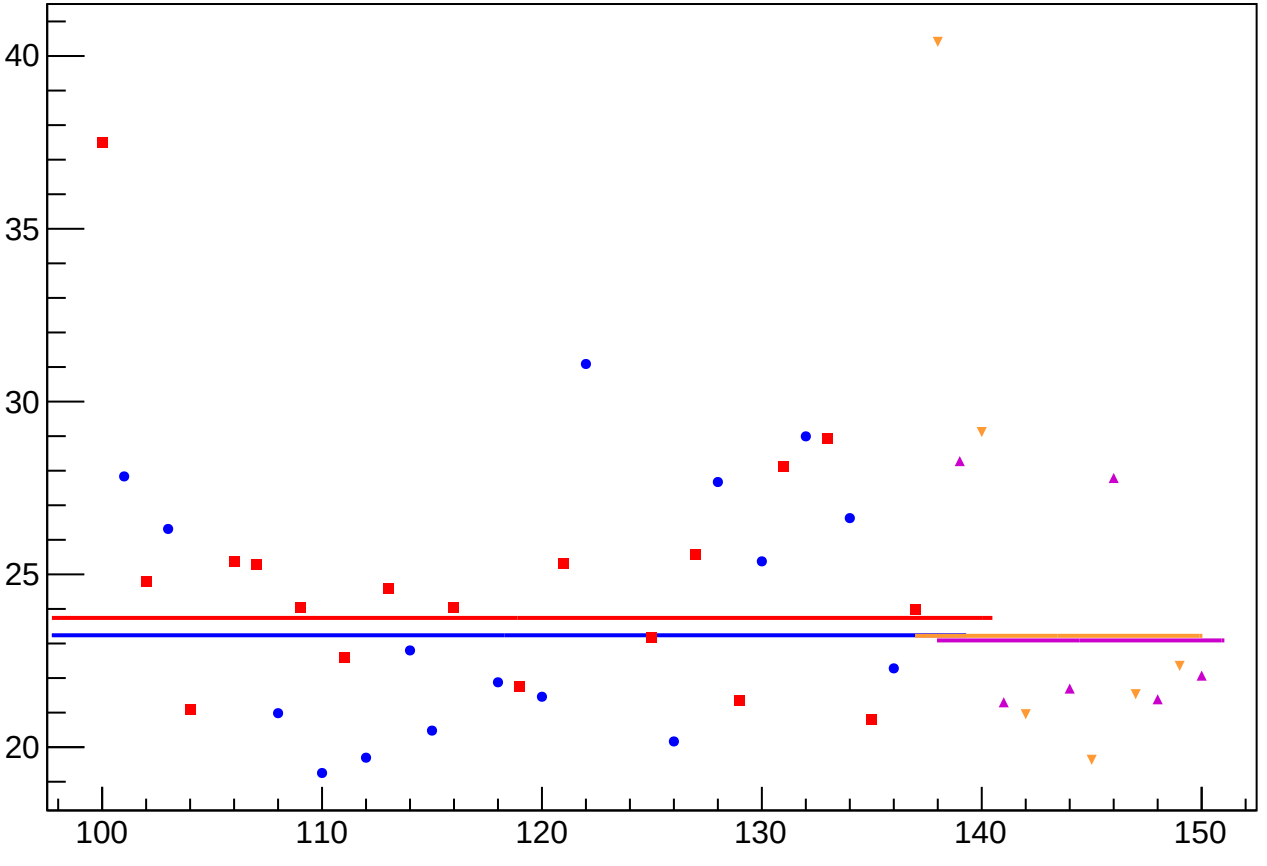
Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.001+/-0.007 $\chi^2$/NDF:16.8/21

Out: -0.003+/-0.007 $\chi^2$/NDF:16.1/23

All: -0.001+/-0.005 $\chi^2$/NDF: 33.0/45

asym_us_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.238+/-0.007 $\chi^2$/NDF: 259235.5/15

Left Out: 23.222+/-0.008 $\chi^2$/NDF:375752.0/5

Right Out: 23.740+/-0.007 $\chi^2$/NDF: 126183.6/17

Left In: 23.089+/-0.008 $\chi^2$/NDF:128500.2/5

Left: 23.149+/-0.006 $\chi^2$/NDF: 504391.1/11

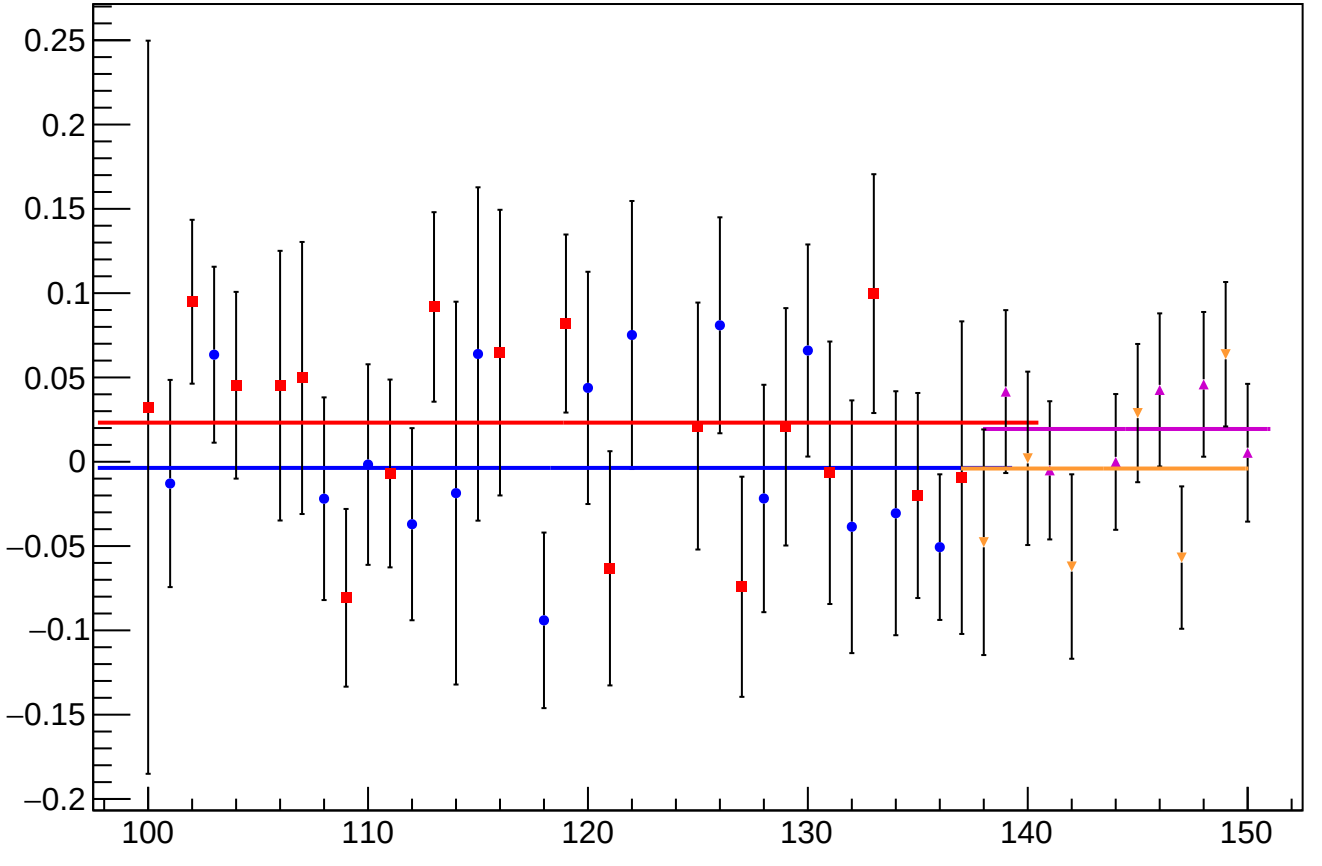
Right: 23.488+/-0.005 $\chi^2$/NDF: 388343.8/33

In: 23.174+/-0.005 $\chi^2$/NDF:387957.5/21

Out: 23.544+/-0.005 $\chi^2$/NDF:504282.9/23

All: 23.350+/-0.004 $\chi^2$/NDF: 894894.6/45

asym_us_dd_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.004+/-0.016 $\chi^2$/NDF: 11.7/15

Left Out: -0.004+/-0.019 $\chi^2$/NDF:6.3/5

Right Out: 0.023+/-0.016 $\chi^2$/NDF: 15.4/17

Left In: 0.019+/-0.017 $\chi^2$/NDF:1.6/5

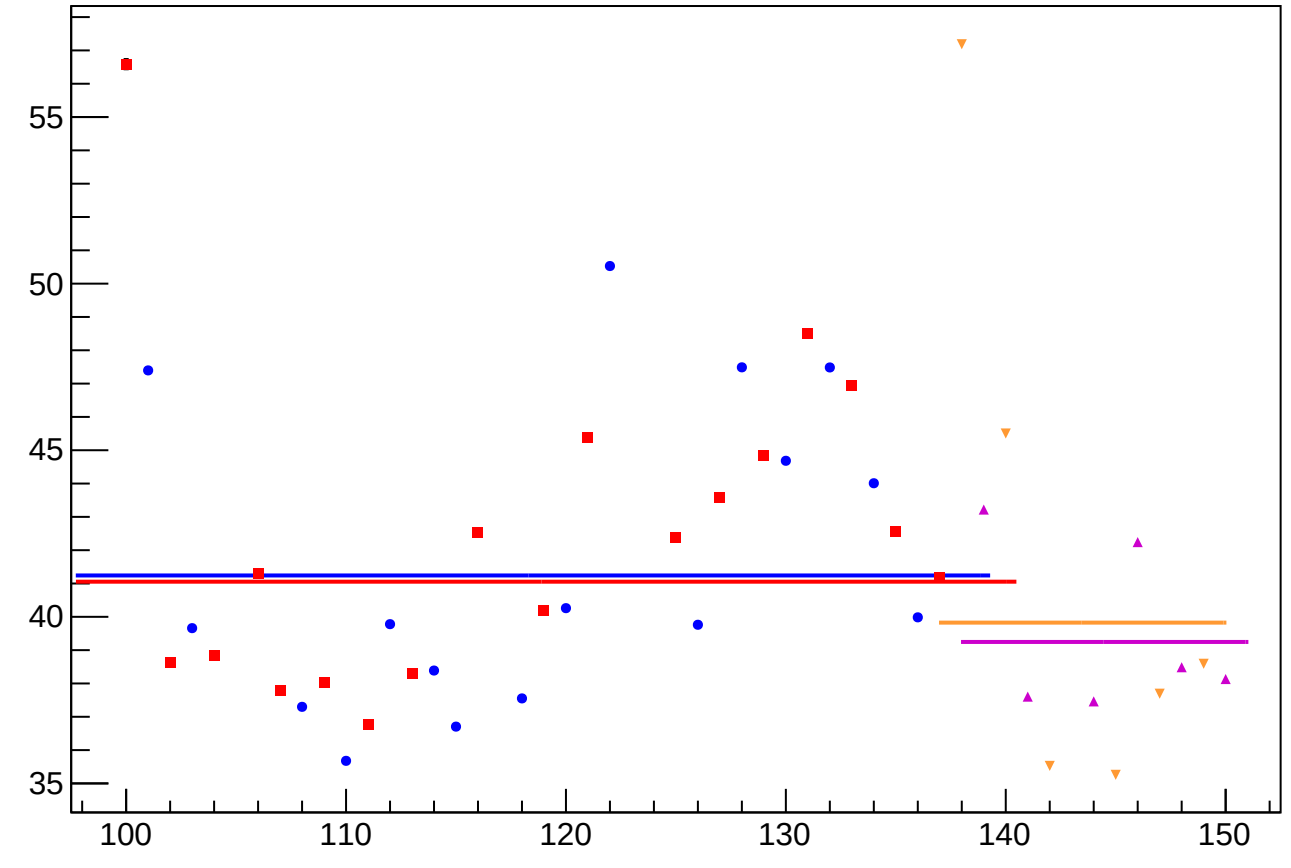
Left: 0.009+/-0.013 $\chi^2$/NDF: 8.6/11

Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: 0.007+/-0.012 $\chi^2$/NDF:14.2/21

Out: 0.013+/-0.012 $\chi^2$/NDF:22.9/23

All: 0.010+/-0.008 $\chi^2$/NDF: 37.2/45




Right In: 41.242+/-0.011 $\chi^2$/NDF: 135279.1/15

Left Out: 39.826+/-0.014 $\chi^2$/NDF:202956.4/5

Right Out: 41.055+/-0.011 $\chi^2$/NDF: 96560.6/17

Left In: 39.246+/-0.012 $\chi^2$/NDF:31481.9/5

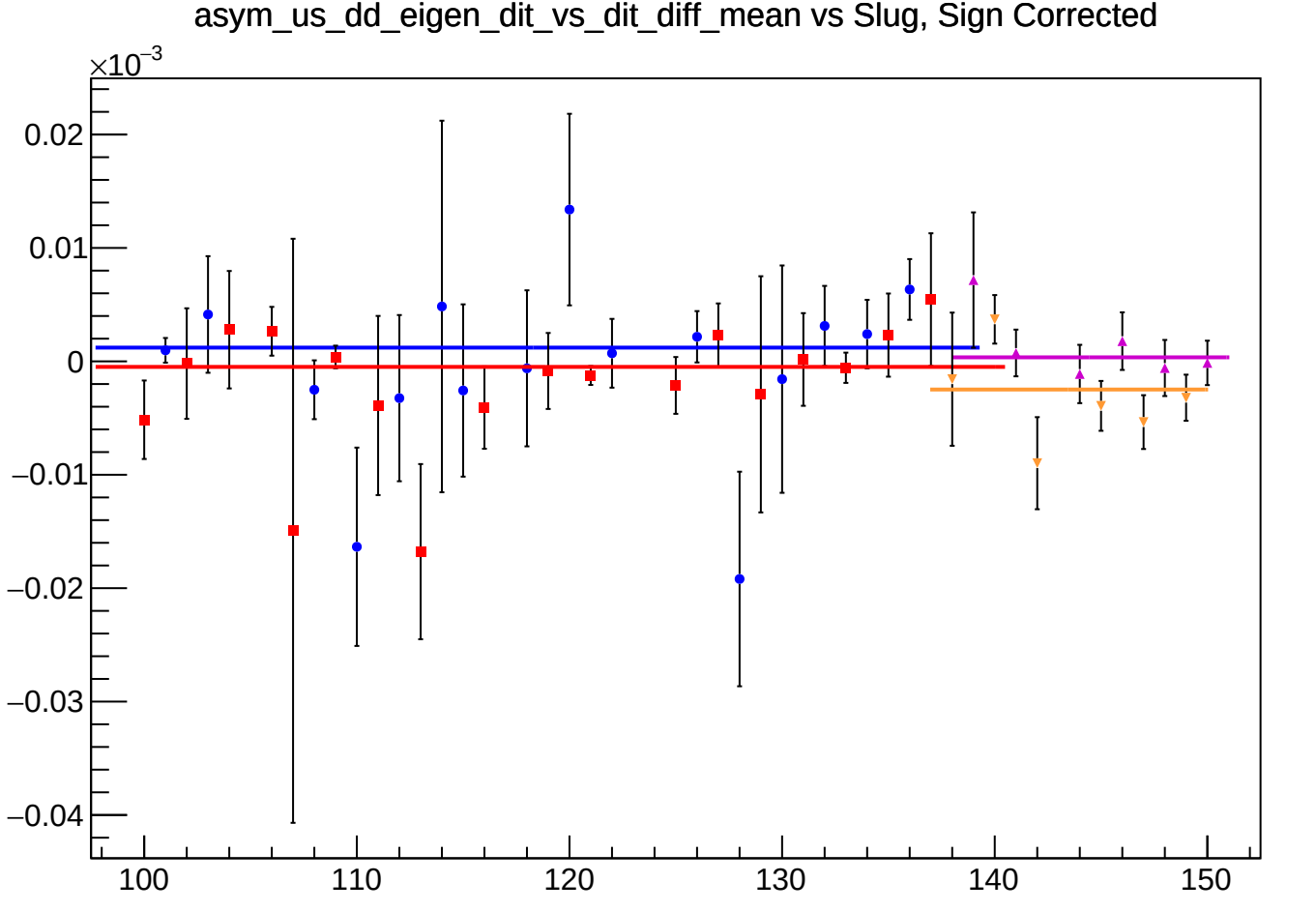
Left: 39.505+/-0.009 $\chi^2$/NDF: 235420.5/11

Right: 41.147+/-0.008 $\chi^2$/NDF: 231982.7/33

In: 40.349+/-0.008 $\chi^2$/NDF:181148.4/21

Out: 40.578+/-0.009 $\chi^2$/NDF:304388.3/23

All: 40.459+/-0.006 $\chi^2$/NDF: 485905.6/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.0/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.2/5

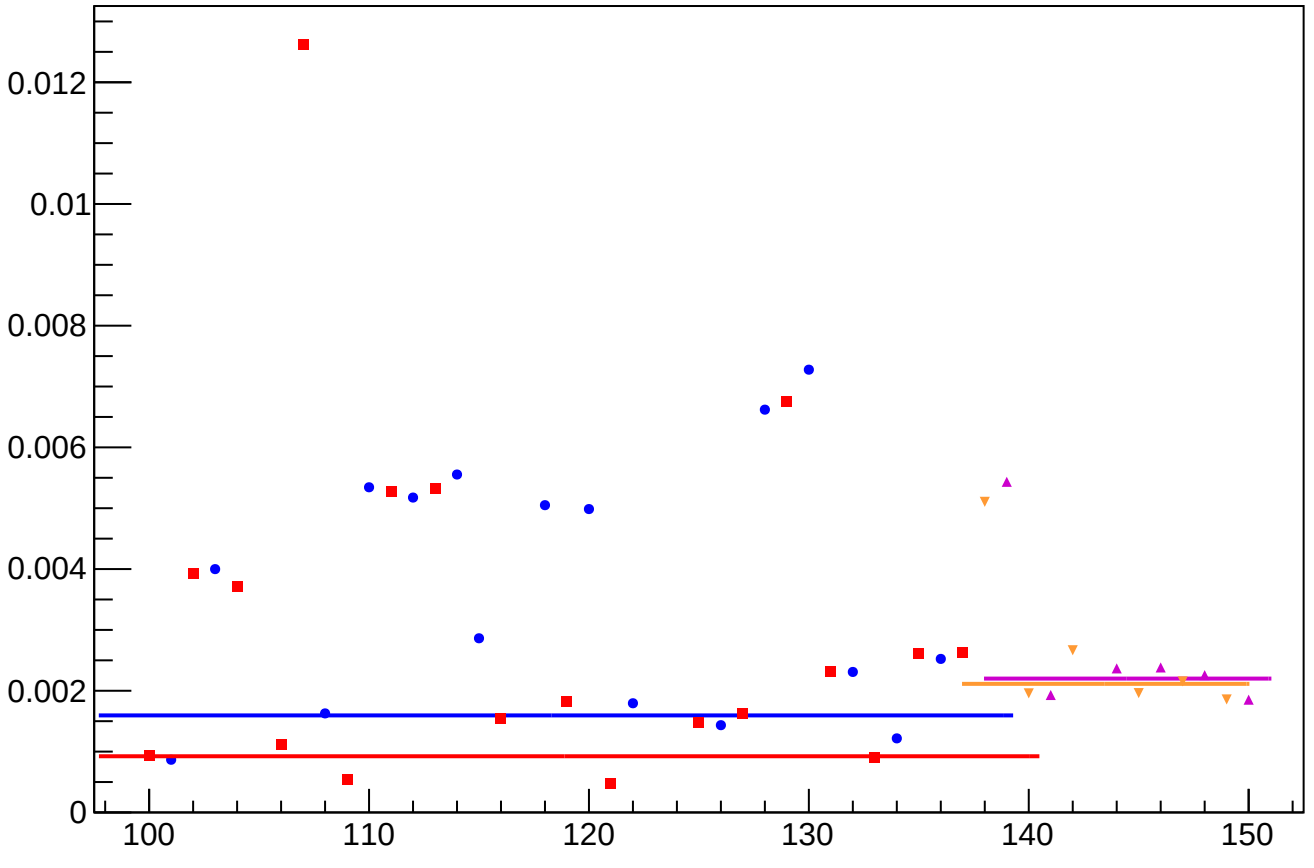
Left: -0.000+/-0.000 $\chi^2$/NDF: 19.0/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 36.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:21.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:31.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 57.5/45




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4762068.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:608837.1/5

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5780451.3/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:704403.5/5

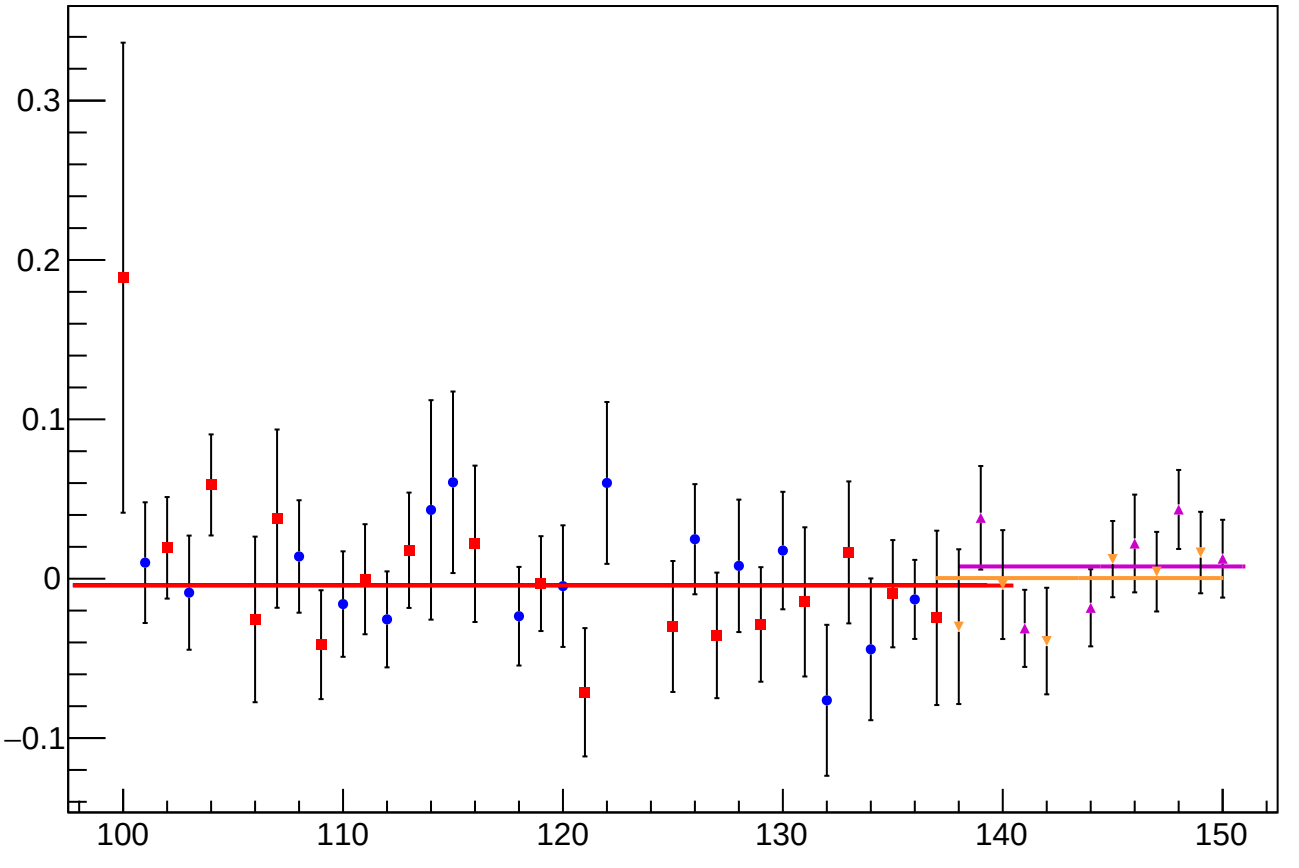
Left: 0.002+/-0.000 $\chi^2$/NDF: 1320452.4/11

Right: 0.001+/-0.000 $\chi^2$/NDF: 11655258.3/33

In: 0.002+/-0.000 $\chi^2$/NDF:5933274.9/21

Out: 0.001+/-0.000 $\chi^2$/NDF:8539173.0/23

All: 0.001+/-0.000 $\chi^2$/NDF: 16048482.2/45




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: 0.000+/-0.012 $\chi^2$/NDF:2.5/5

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:7.0/5

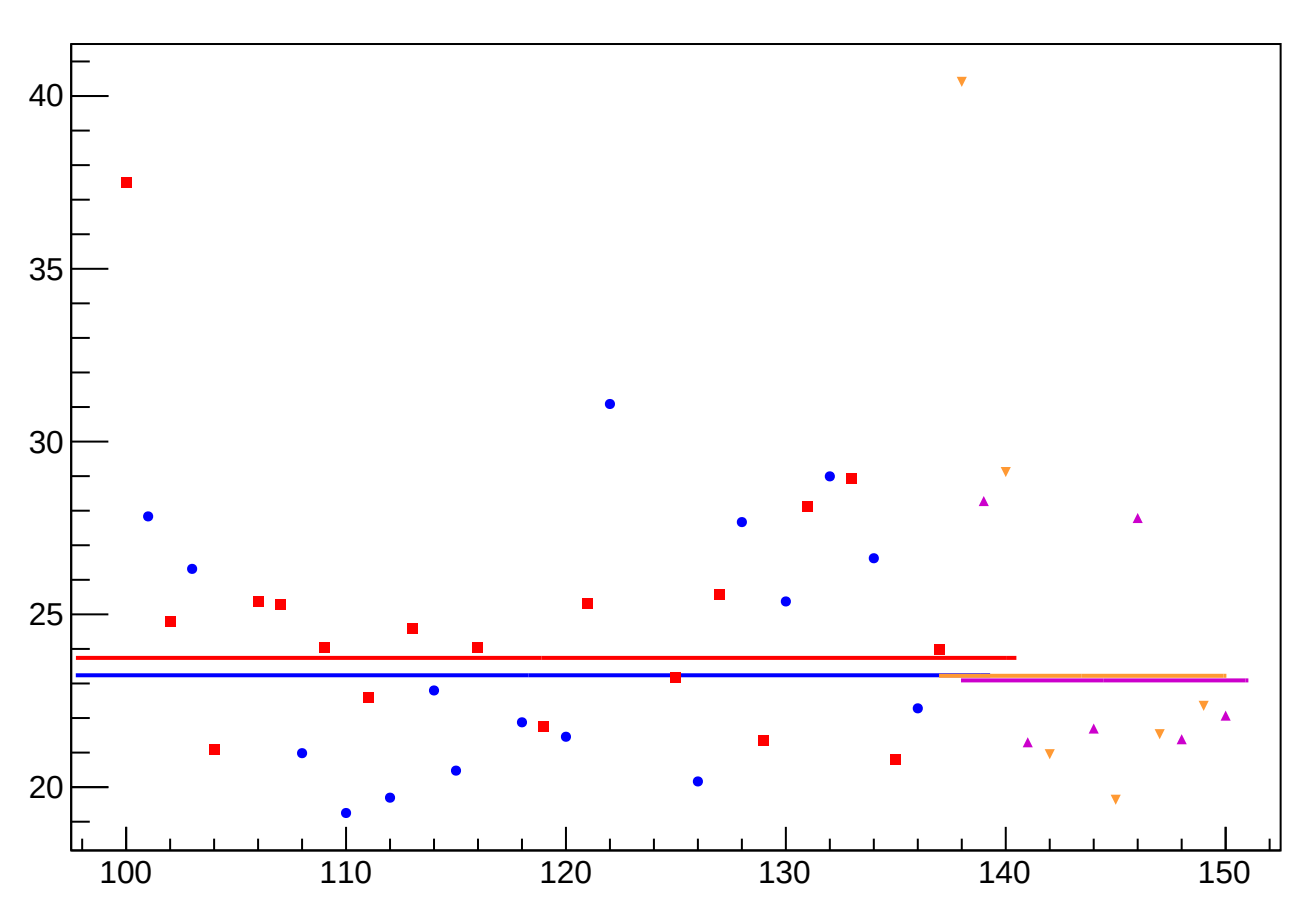
Left: 0.004+/-0.008 $\chi^2$/NDF: 9.6/11

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.001+/-0.007 $\chi^2$/NDF:16.8/21

Out: -0.003+/-0.007 $\chi^2$/NDF:16.1/23

All: -0.001+/-0.005 $\chi^2$/NDF: 33.0/45




Right In: 23.237+/-0.007 $\chi^2$/NDF: 259224.2/15

Left Out: 23.222+/-0.008 $\chi^2$/NDF:375745.1/5

Right Out: 23.741+/-0.007 $\chi^2$/NDF: 126132.7/17

Left In: 23.089+/-0.008 $\chi^2$/NDF:128513.7/5

Left: 23.149+/-0.006 $\chi^2$/NDF: 504397.9/11

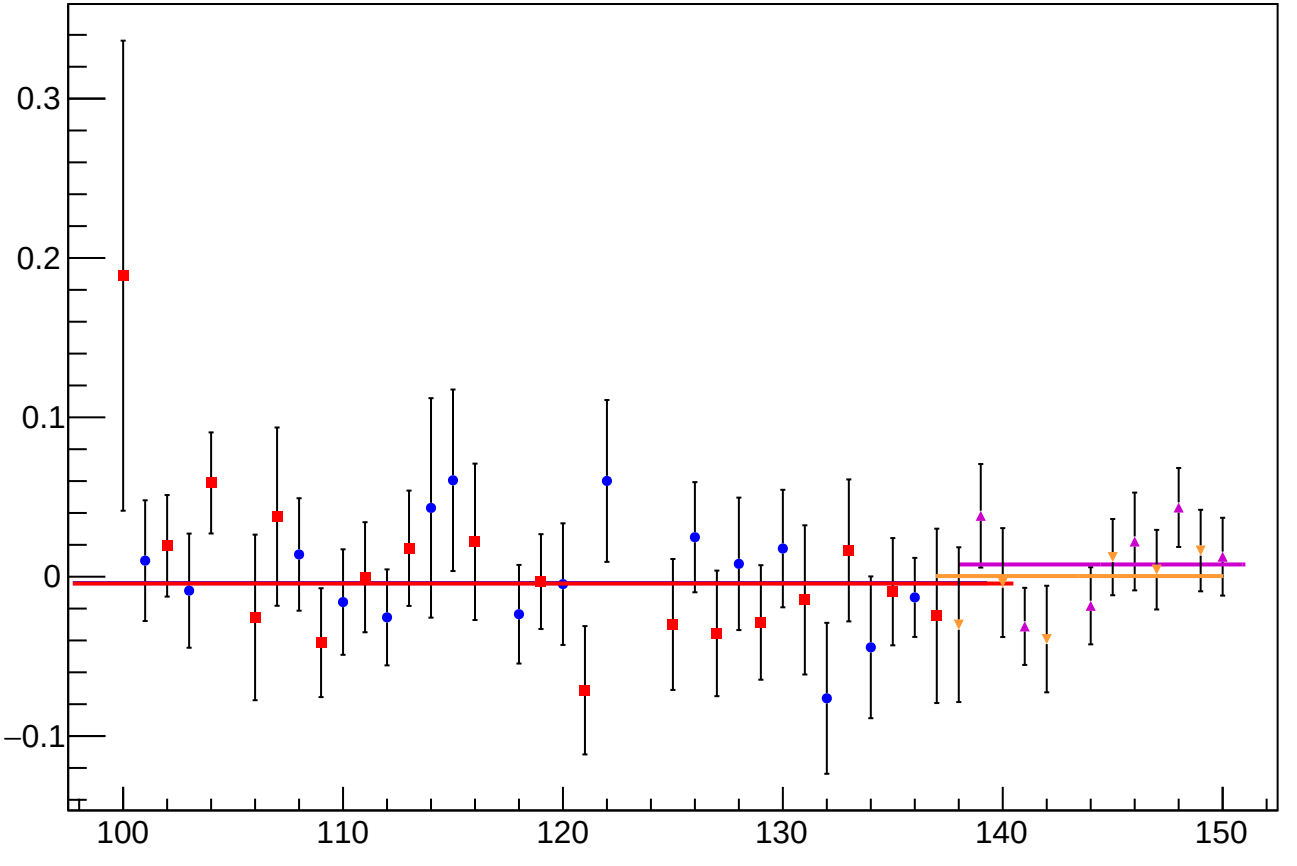
Right: 23.487+/-0.005 $\chi^2$/NDF: 388292.2/33

In: 23.174+/-0.005 $\chi^2$/NDF:387957.6/21

Out: 23.544+/-0.005 $\chi^2$/NDF:504226.6/23

All: 23.350+/-0.004 $\chi^2$/NDF: 894846.1/45

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: 0.000+/-0.012 $\chi^2$/NDF:2.5/5

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:7.0/5

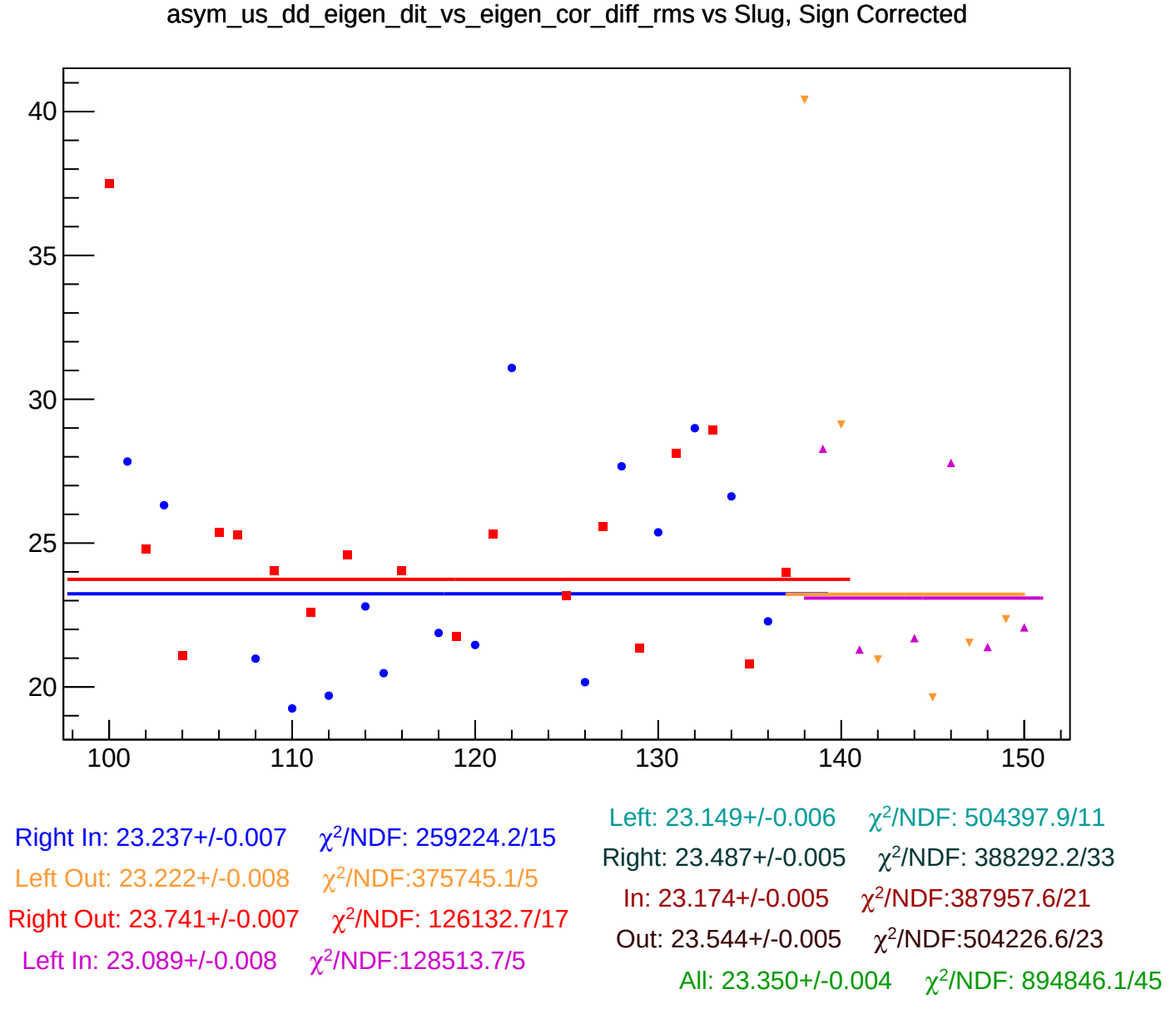
Left: 0.004+/-0.008 $\chi^2$/NDF: 9.6/11

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

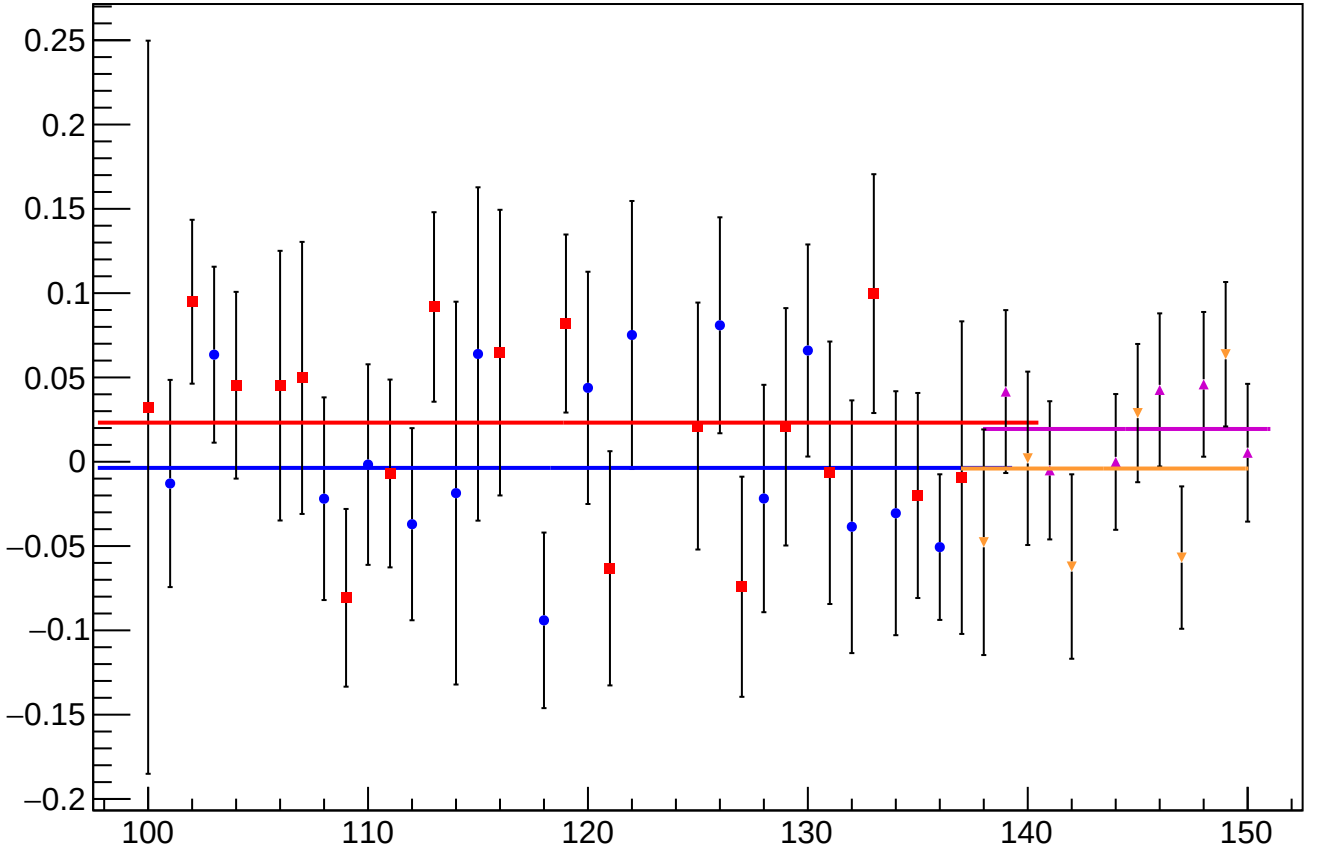
In: 0.001+/-0.007 $\chi^2$/NDF:16.8/21

Out: -0.003+/-0.007 $\chi^2$/NDF:16.1/23

All: -0.001+/-0.005 $\chi^2$/NDF: 33.0/45


asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
40
35
30
25
20
100
110
120
130
140
150
Right In: 23.237+/-0.007 χ²/NDF: 259224.2/15
Left Out: 23.222+/-0.008 χ²/NDF:375745.1/5
Right Out: 23.741+/-0.007 χ²/NDF: 126132.7/17
Left In: 23.089+/-0.008 χ²/NDF:128513.7/5
Left: 23.149+/-0.006 χ²/NDF: 504397.9/11
Right: 23.487+/-0.005 χ²/NDF: 388292.2/33
In: 23.174+/-0.005 χ²/NDF:387957.6/21
Out: 23.544+/-0.005 χ²/NDF:504226.6/23
All: 23.350+/-0.004 χ²/NDF: 894846.1/45

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.004+/-0.016 $\chi^2$/NDF: 11.7/15

Left Out: -0.004+/-0.019 $\chi^2$/NDF:6.3/5

Right Out: 0.023+/-0.016 $\chi^2$/NDF: 15.4/17

Left In: 0.019+/-0.017 $\chi^2$/NDF:1.6/5

Left: 0.009+/-0.013 $\chi^2$/NDF: 8.6/11

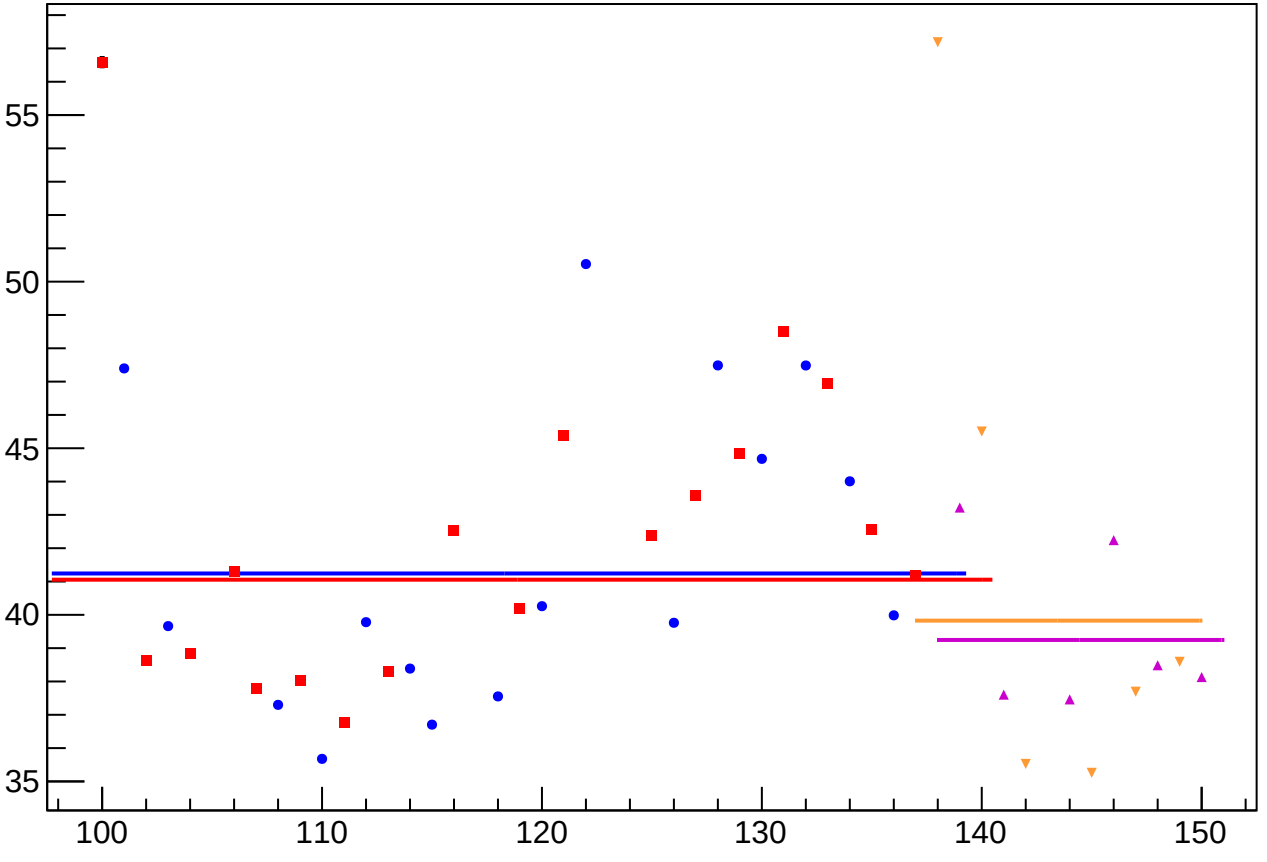
Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: 0.007+/-0.012 $\chi^2$/NDF:14.2/21

Out: 0.013+/-0.012 $\chi^2$/NDF:22.9/23

All: 0.010+/-0.008 $\chi^2$/NDF: 37.2/45

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.241+/-0.011 $\chi^2$/NDF: 135256.9/15

Left Out: 39.826+/-0.014 $\chi^2$/NDF:202956.1/5

Right Out: 41.055+/-0.011 $\chi^2$/NDF: 96549.4/17

Left In: 39.246+/-0.012 $\chi^2$/NDF:31487.4/5

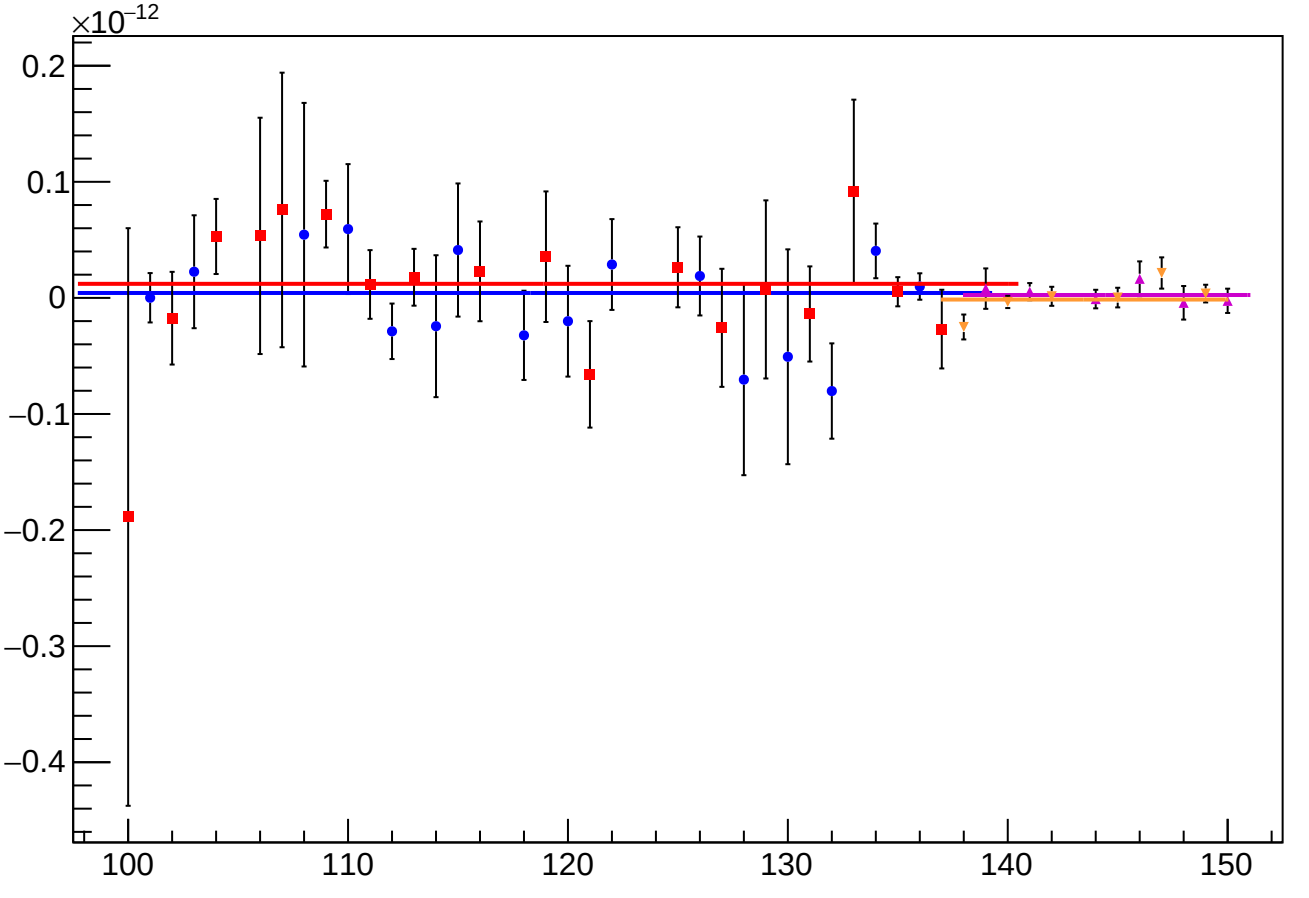
Left: 39.505+/-0.009 $\chi^2$/NDF: 235425.5/11

Right: 41.147+/-0.008 $\chi^2$/NDF: 231949.1/33

In: 40.349+/-0.008 $\chi^2$/NDF:181127.5/21

Out: 40.578+/-0.009 $\chi^2$/NDF:304376.4/23

All: 40.459+/-0.006 $\chi^2$/NDF: 485873.1/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.5/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.8/5

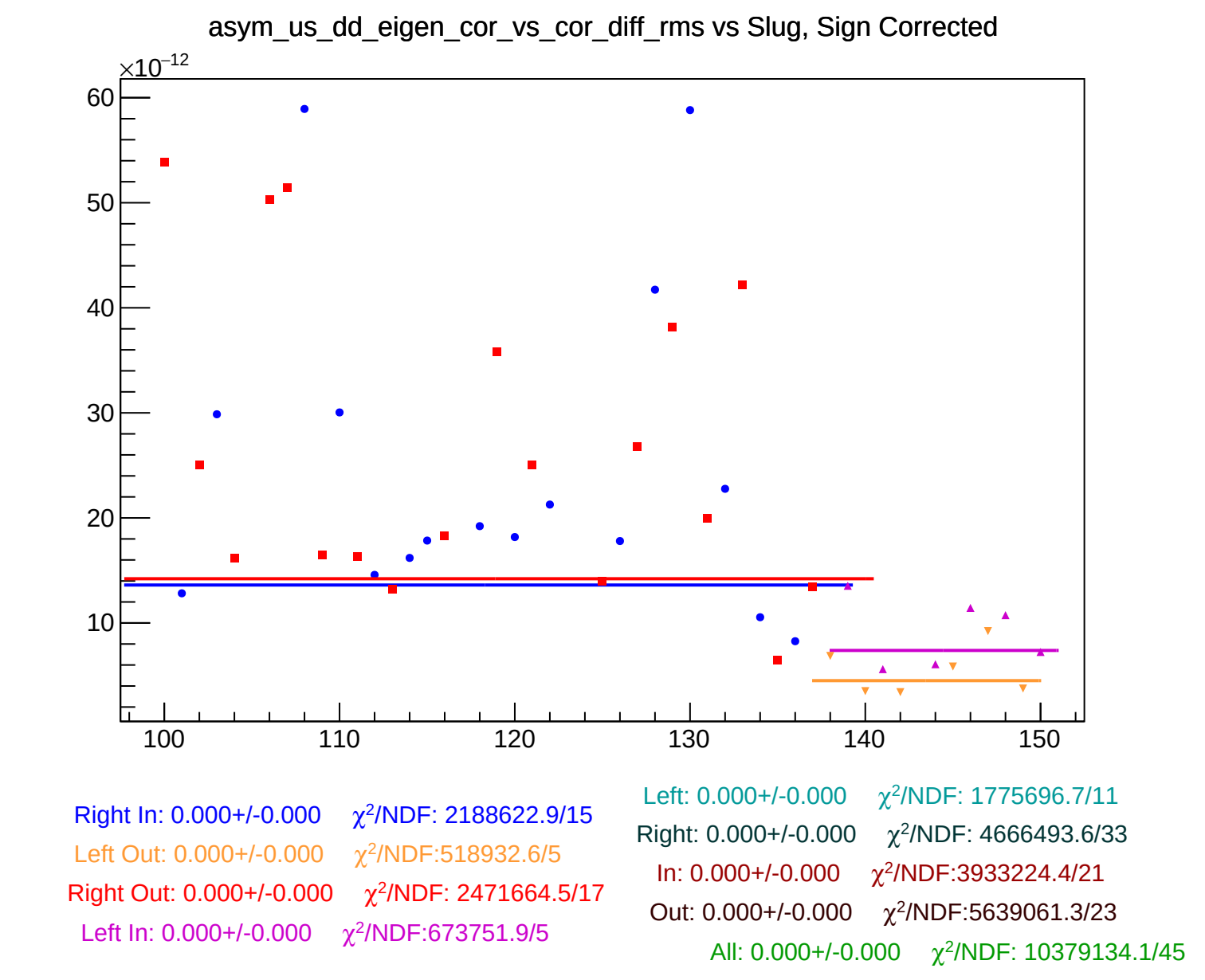
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.8/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.7/33

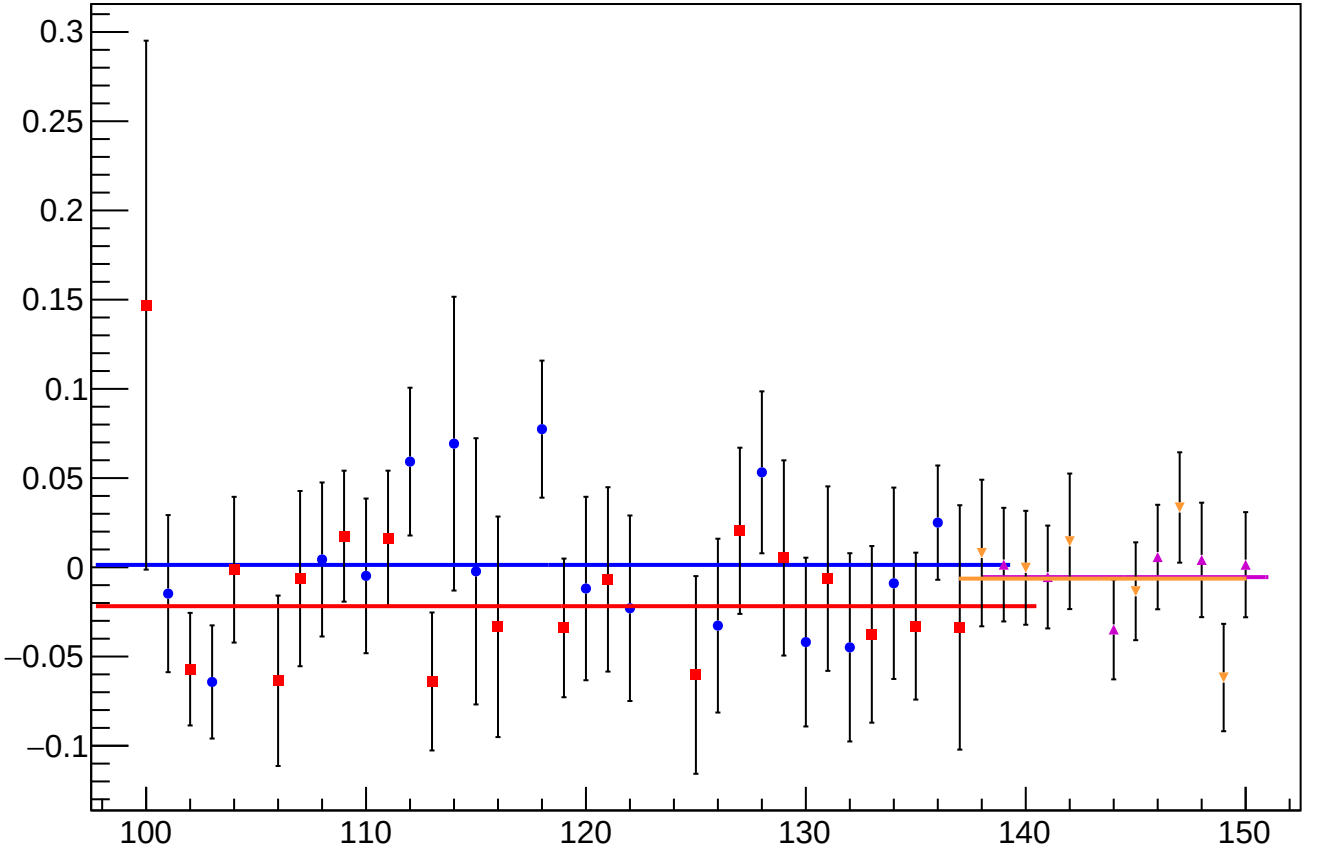
In: 0.000+/-0.000 $\chi^2$/NDF:15.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 41.3/45


asym_us_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2188622.9/15
Left Out: 0.000+/-0.000 χ²/NDF:518932.6/5
Right Out: 0.000+/-0.000 χ²/NDF: 2471664.5/17
Left In: 0.000+/-0.000 χ²/NDF:673751.9/5
Left: 0.000+/-0.000 χ²/NDF: 1775696.7/11
Right: 0.000+/-0.000 χ²/NDF: 4666493.6/33
In: 0.000+/-0.000 χ²/NDF:3933224.4/21
Out: 0.000+/-0.000 χ²/NDF:5639061.3/23
All: 0.000+/-0.000 χ²/NDF: 10379134.1/45

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.011 $\chi^2$/NDF: 15.3/15

Left Out: -0.006+/-0.013 $\chi^2$/NDF:5.6/5

Right Out: -0.022+/-0.011 $\chi^2$/NDF: 9.0/17

Left In: -0.005+/-0.012 $\chi^2$/NDF:1.4/5

Left: -0.006+/-0.009 $\chi^2$/NDF: 7.0/11

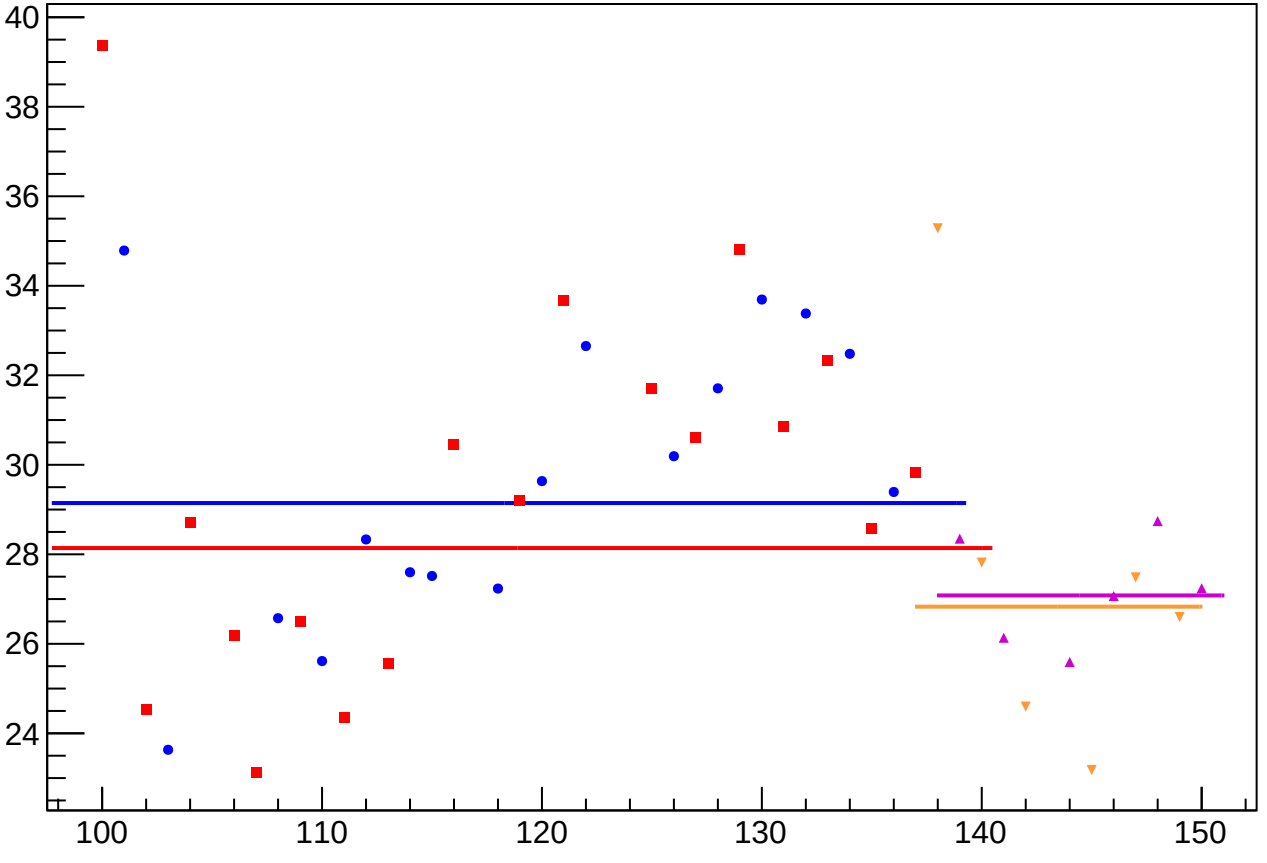
Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: -0.002+/-0.008 $\chi^2$/NDF:16.9/21

Out: -0.016+/-0.008 $\chi^2$/NDF:15.4/23

All: -0.009+/-0.006 $\chi^2$/NDF: 33.7/45

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.146+/-0.008 $\chi^2$/NDF: 176889.4/15

Left Out: 26.830+/-0.009 $\chi^2$/NDF:130034.1/5

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 27.081+/-0.009 $\chi^2$/NDF:16403.3/5

Left: 26.966+/-0.006 $\chi^2$/NDF: 146827.7/11

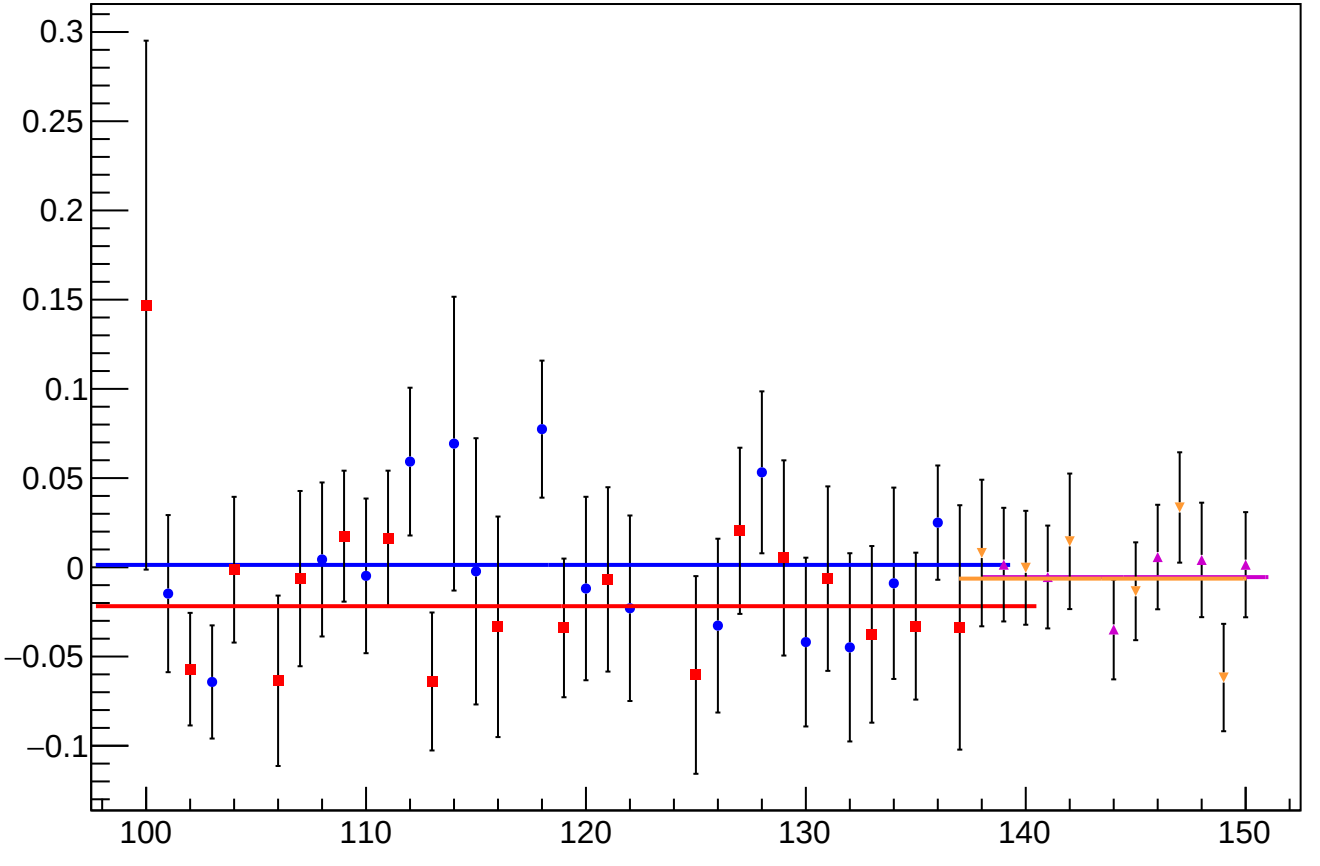
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.197+/-0.006 $\chi^2$/NDF:224439.4/21

Out: 27.616+/-0.006 $\chi^2$/NDF:328960.0/23

All: 27.910+/-0.004 $\chi^2$/NDF: 558315.2/45

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.011 $\chi^2$/NDF: 15.3/15

Left Out: -0.006+/-0.013 $\chi^2$/NDF:5.6/5

Right Out: -0.022+/-0.011 $\chi^2$/NDF: 9.0/17

Left In: -0.005+/-0.012 $\chi^2$/NDF:1.4/5

Left: -0.006+/-0.009 $\chi^2$/NDF: 7.0/11

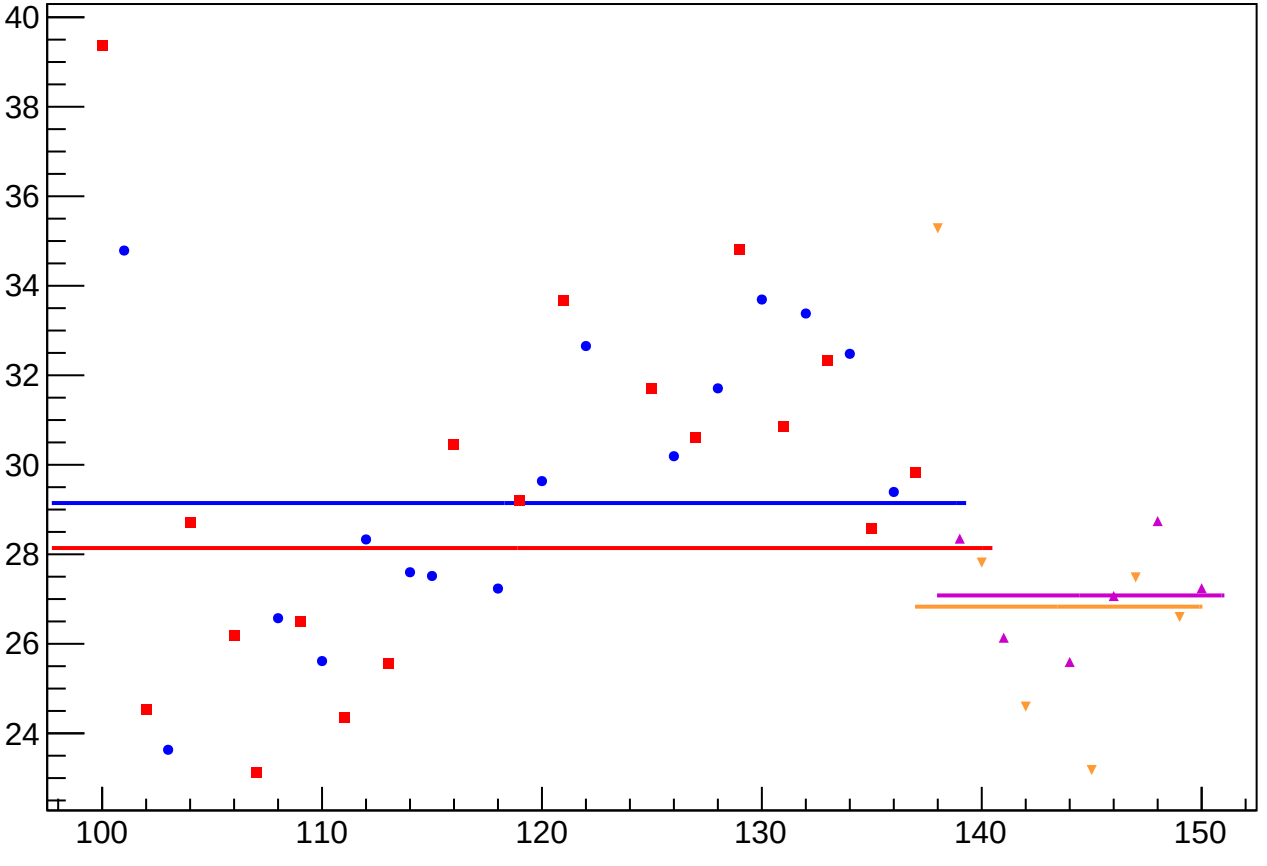
Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: -0.002+/-0.008 $\chi^2$/NDF:16.9/21

Out: -0.016+/-0.008 $\chi^2$/NDF:15.4/23

All: -0.009+/-0.006 $\chi^2$/NDF: 33.7/45

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.146+/-0.008 $\chi^2$/NDF: 176889.4/15

Left Out: 26.830+/-0.009 $\chi^2$/NDF:130034.1/5

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 27.081+/-0.009 $\chi^2$/NDF:16403.3/5

Left: 26.966+/-0.006 $\chi^2$/NDF: 146827.7/11

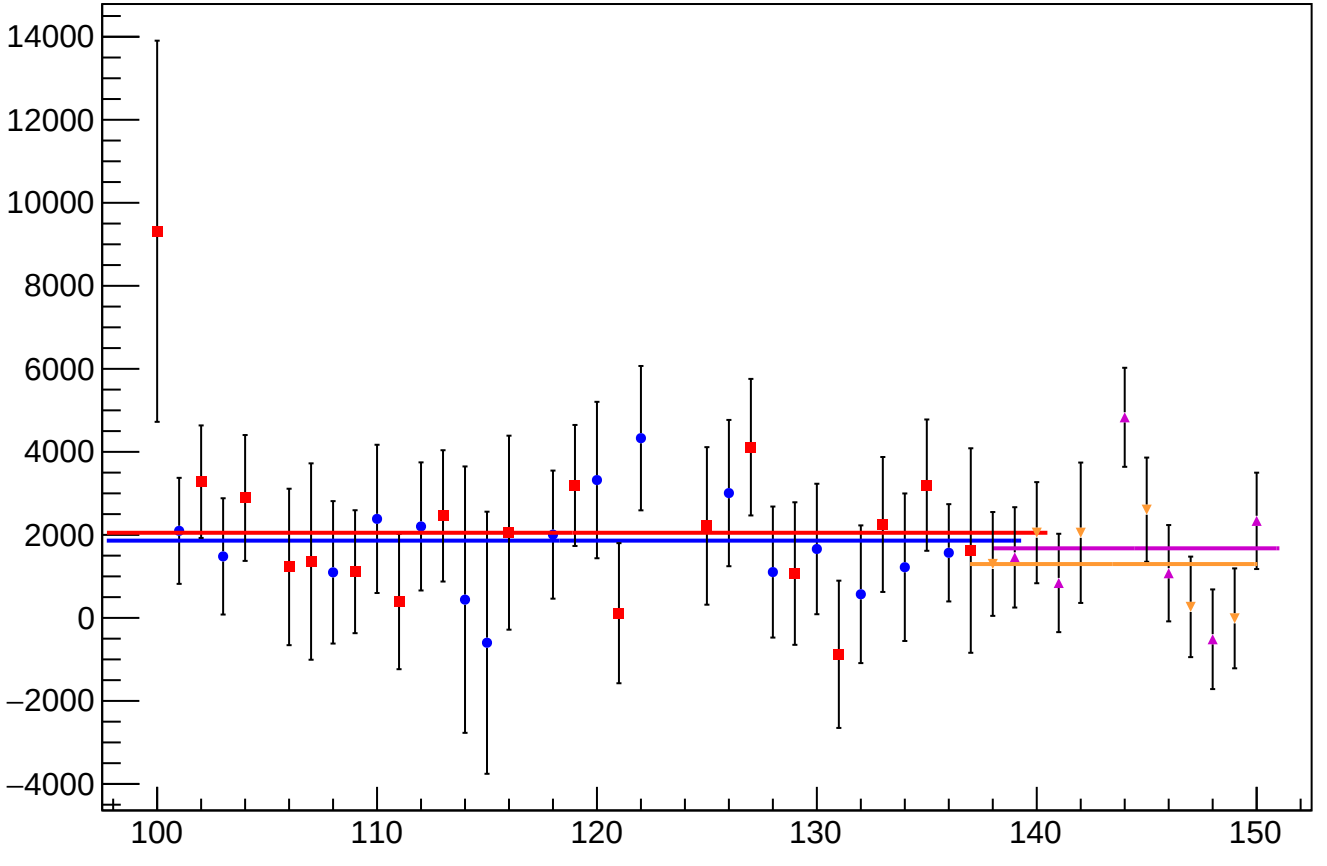
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.197+/-0.006 $\chi^2$/NDF:224439.4/21

Out: 27.616+/-0.006 $\chi^2$/NDF:328960.0/23

All: 27.910+/-0.004 $\chi^2$/NDF: 558315.2/45

# reg_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1297.203+/-521.992 $\chi^2$/NDF:3.6/5

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1676.316+/-483.482 $\chi^2$/NDF:11.5/5

Left: 1501.258+/-354.707 $\chi^2$/NDF: 15.3/11

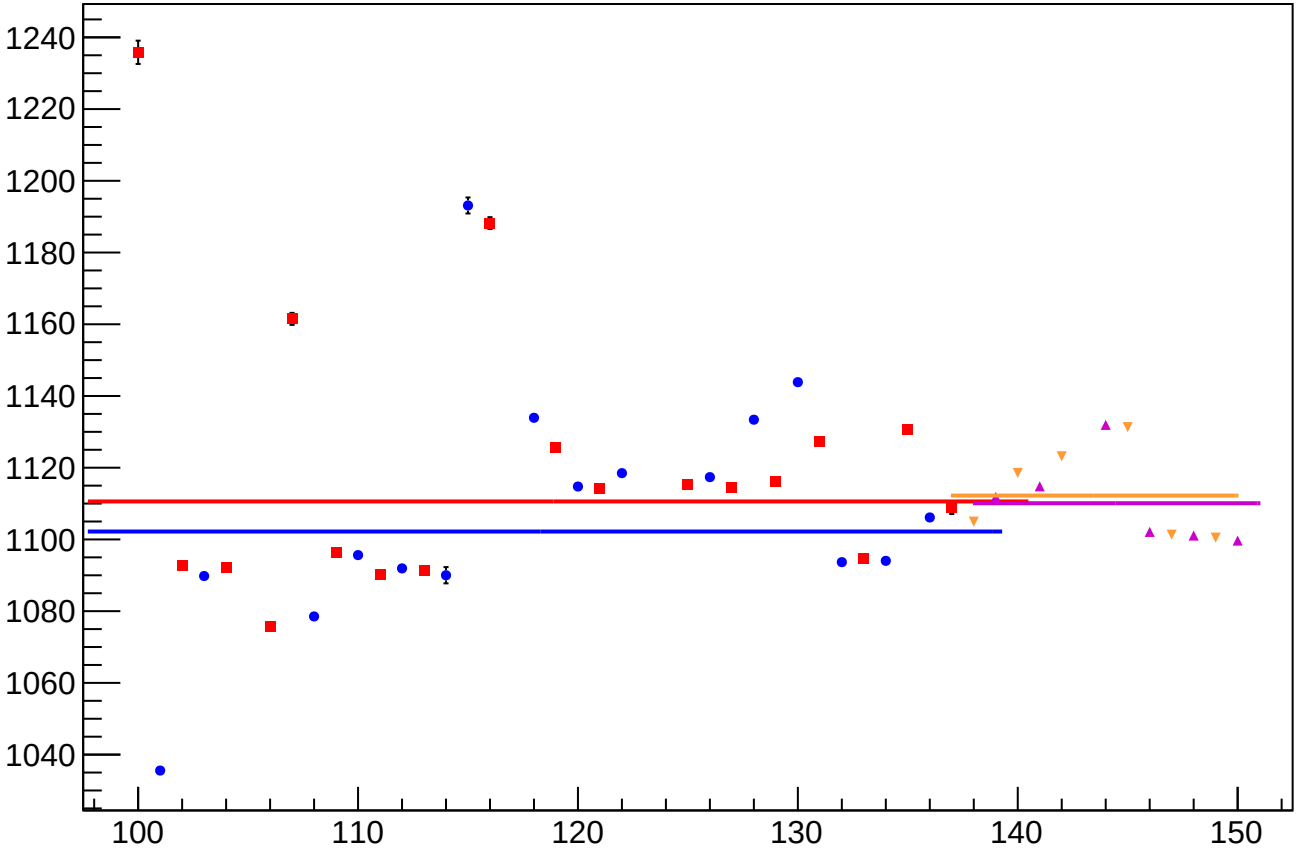
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1784.155+/-312.490 $\chi^2$/NDF:16.9/21

Out: 1763.945+/-322.066 $\chi^2$/NDF:17.4/23

All: 1774.355+/-224.273 $\chi^2$/NDF: 34.3/45

# reg_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1112.233+/-0.369 $\chi^2$/NDF:1020.1/5

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1110.097+/-0.342 $\chi^2$/NDF:1075.3/5

Left: 1111.083+/-0.251 $\chi^2$/NDF: 2113.4/11

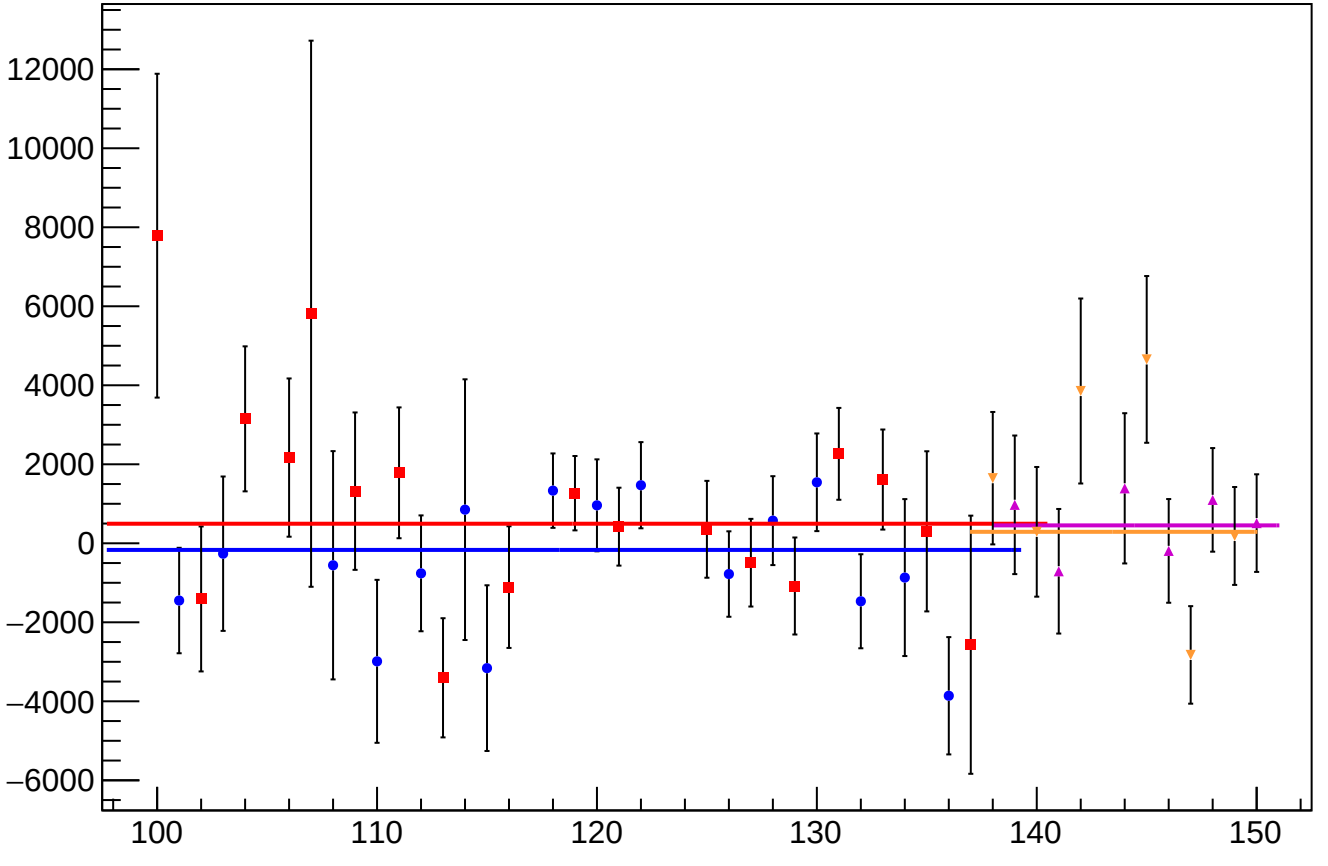
Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.502+/-0.221 $\chi^2$/NDF:12734.5/21

Out: 1111.216+/-0.228 $\chi^2$/NDF:8728.4/23

All: 1108.273+/-0.159 $\chi^2$/NDF: 21787.2/45

# asym_usl_reg_correction_mean vs Slug, Sign Corrected




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 290.404+/-640.015 $\chi^2$/NDF:13.6/5

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 453.249+/-595.458 $\chi^2$/NDF:1.4/5

Left: 377.692+/-435.954 $\chi^2$/NDF: 15.0/11

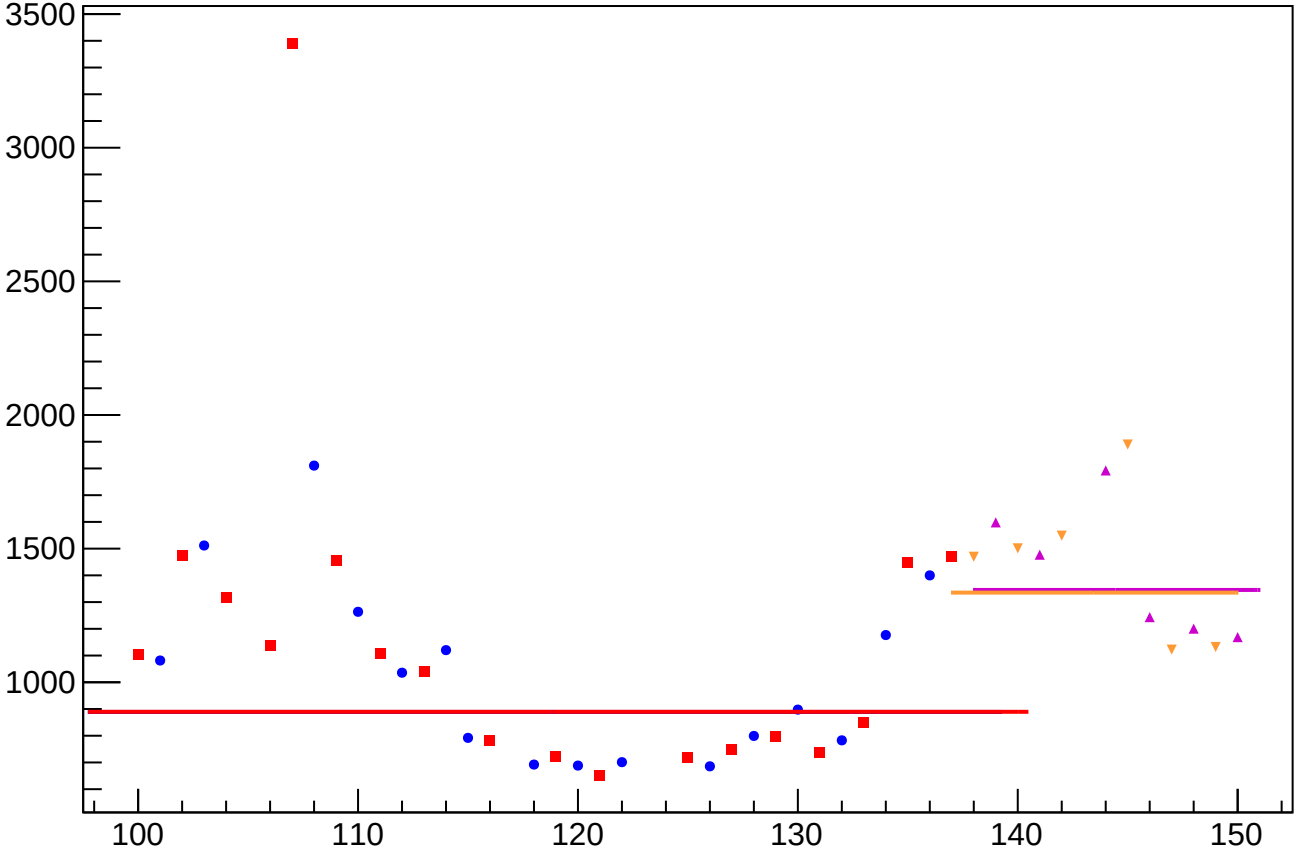
Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -11.486+/-298.801 $\chi^2$/NDF:23.2/21

Out: 449.057+/-303.725 $\chi^2$/NDF:37.0/23

All: 215.022+/-213.004 $\chi^2$/NDF: 61.4/45

# asym_usl_reg_correction_rms vs Slug, Sign Corrected




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1335.483+/-0.453 $\chi^2$/NDF:301200.9/5

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1345.431+/-0.421 $\chi^2$/NDF:243284.3/5

Left: 1340.815+/-0.308 $\chi^2$/NDF: 544744.2/11

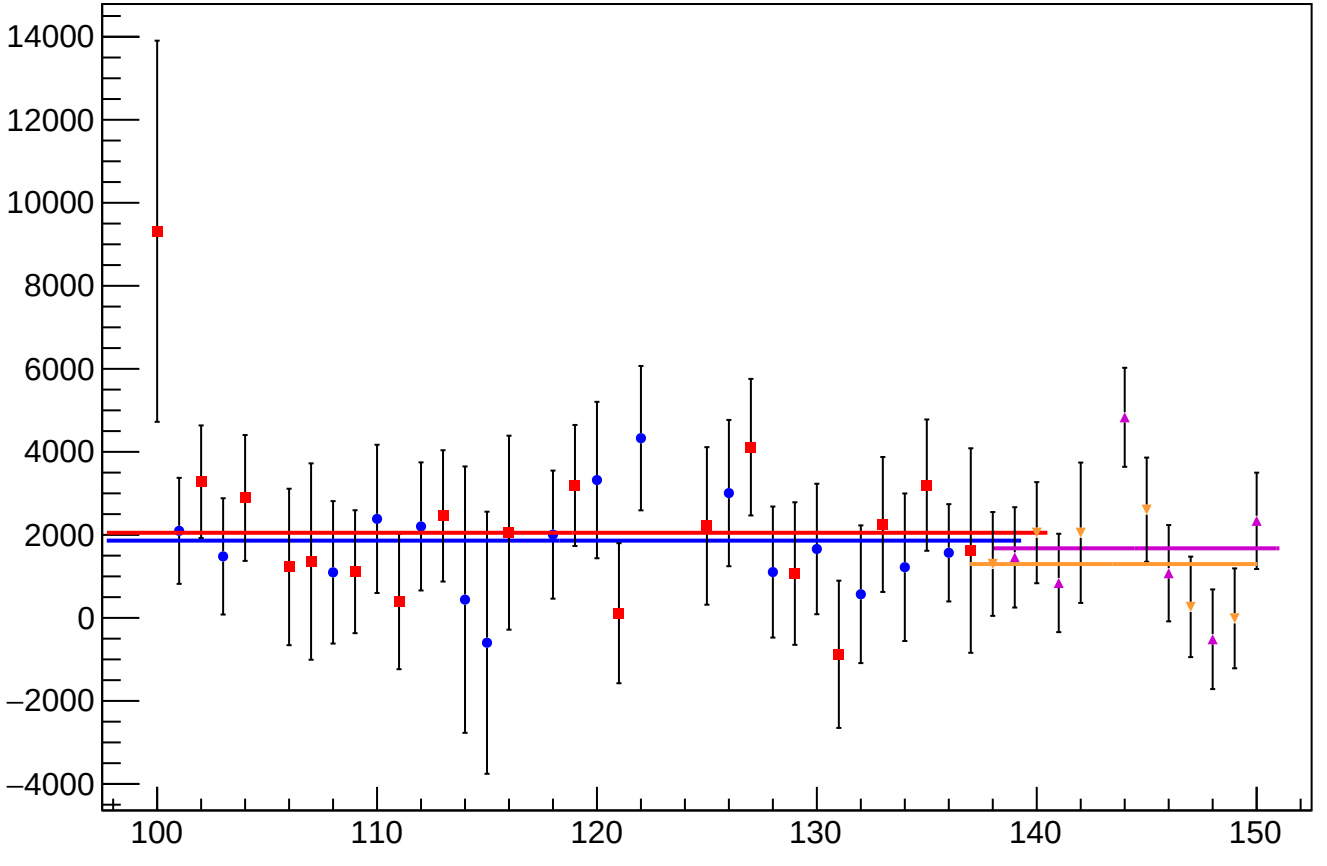
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1003.898+/-0.211 $\chi^2$/NDF:2255432.0/21

Out: 989.921+/-0.215 $\chi^2$/NDF:2399466.2/23

All: 997.024+/-0.151 $\chi^2$/NDF: 4657050.5/45

# cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1297.203+/-521.992 $\chi^2$/NDF:3.6/5

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1676.316+/-483.482 $\chi^2$/NDF:11.5/5

Left: 1501.258+/-354.707 $\chi^2$/NDF: 15.3/11

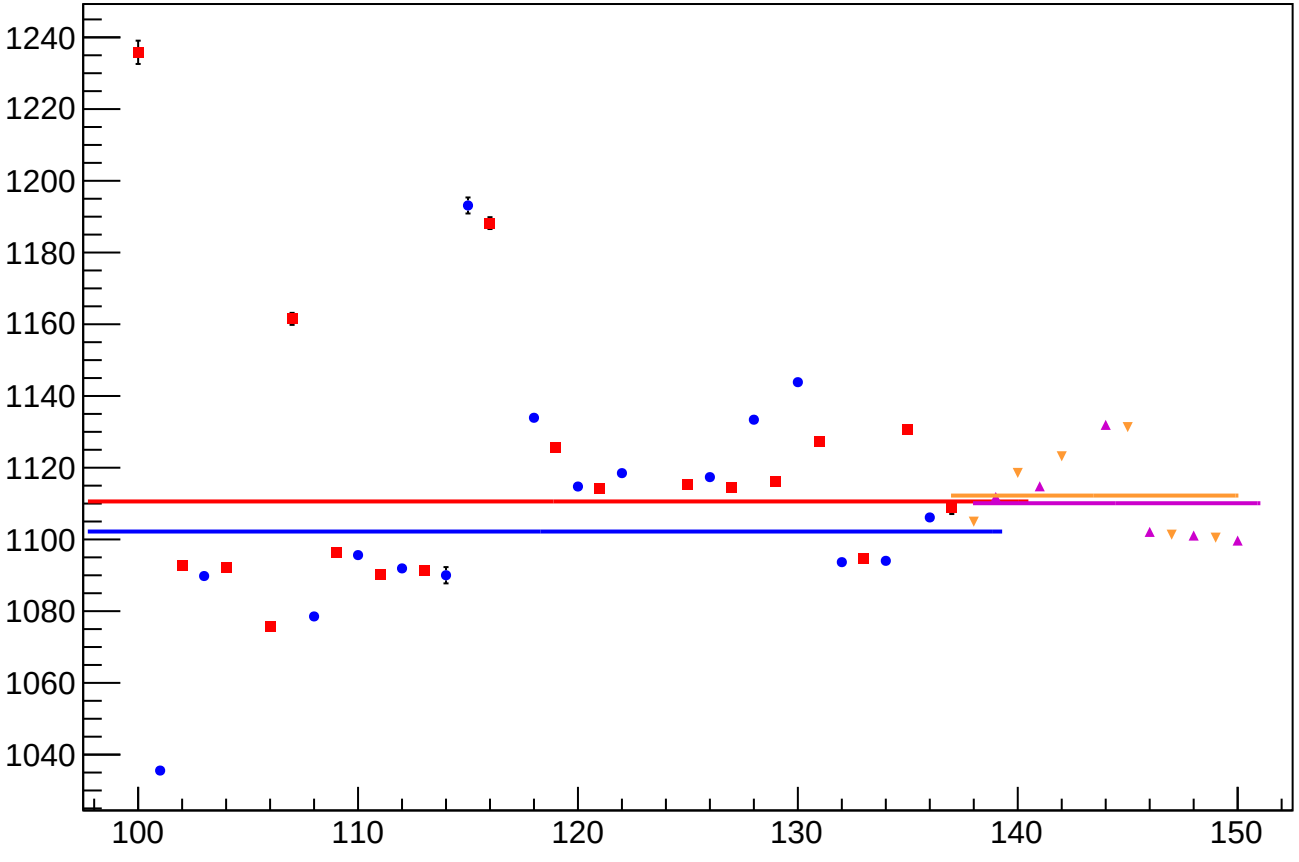
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1784.155+/-312.490 $\chi^2$/NDF:16.9/21

Out: 1763.945+/-322.066 $\chi^2$/NDF:17.4/23

All: 1774.355+/-224.273 $\chi^2$/NDF: 34.3/45

# cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1112.233+/-0.369 $\chi^2$/NDF:1020.1/5

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1110.097+/-0.342 $\chi^2$/NDF:1075.3/5

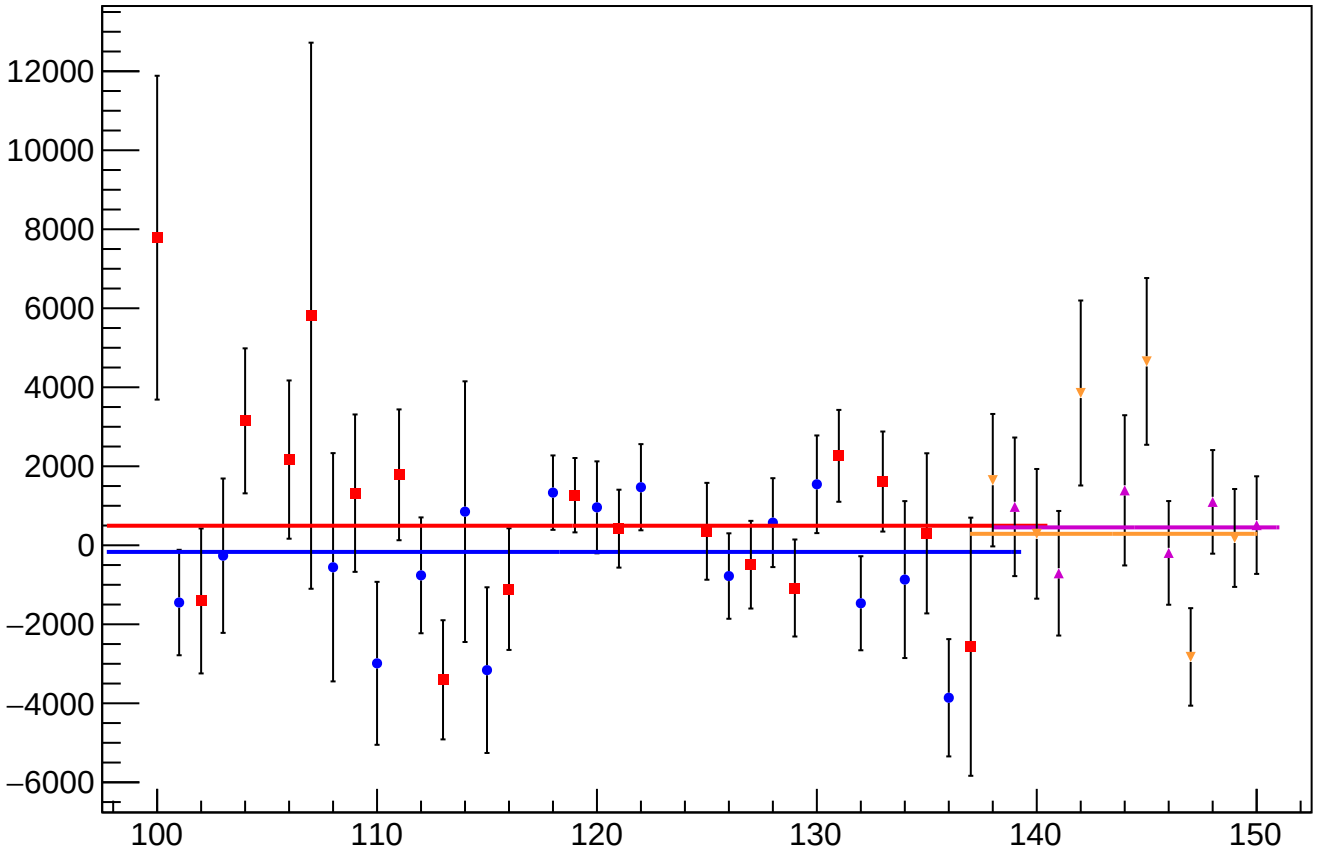
Left: 1111.083+/-0.251 $\chi^2$/NDF: 2113.4/11

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.502+/-0.221 $\chi^2$/NDF:12734.5/21

Out: 1111.216+/-0.228 $\chi^2$/NDF:8728.4/23

All: 1108.273+/-0.159 $\chi^2$/NDF: 21787.2/45




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 290.404+/-640.015 $\chi^2$/NDF:13.6/5

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 453.249+/-595.458 $\chi^2$/NDF:1.4/5

Left: 377.692+/-435.954 $\chi^2$/NDF: 15.0/11

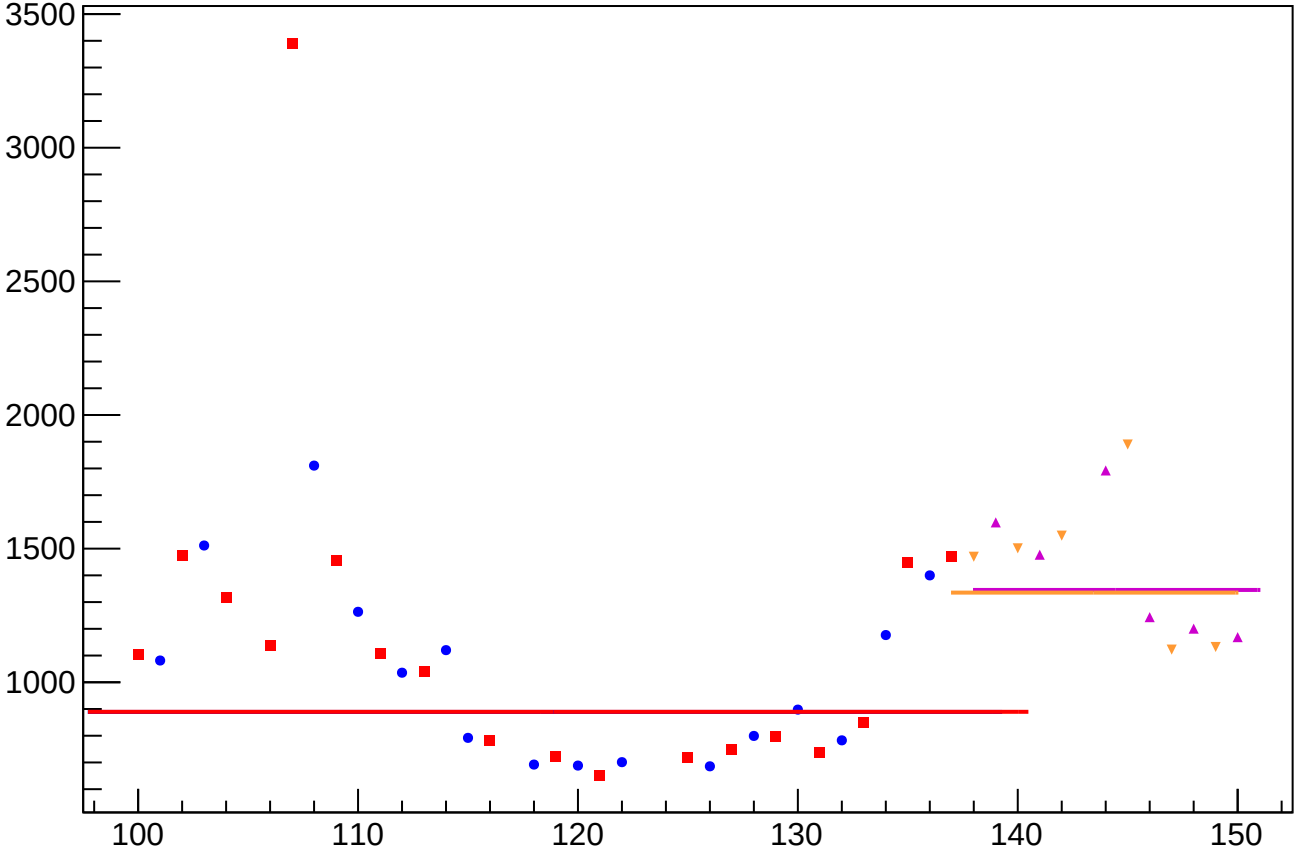
Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -11.486+/-298.801 $\chi^2$/NDF:23.2/21

Out: 449.057+/-303.725 $\chi^2$/NDF:37.0/23

All: 215.022+/-213.004 $\chi^2$/NDF: 61.4/45

# asym_usl_cor_correction_rms vs Slug, Sign Corrected




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1335.483+/-0.453 $\chi^2$/NDF:301200.9/5

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1345.431+/-0.421 $\chi^2$/NDF:243284.3/5

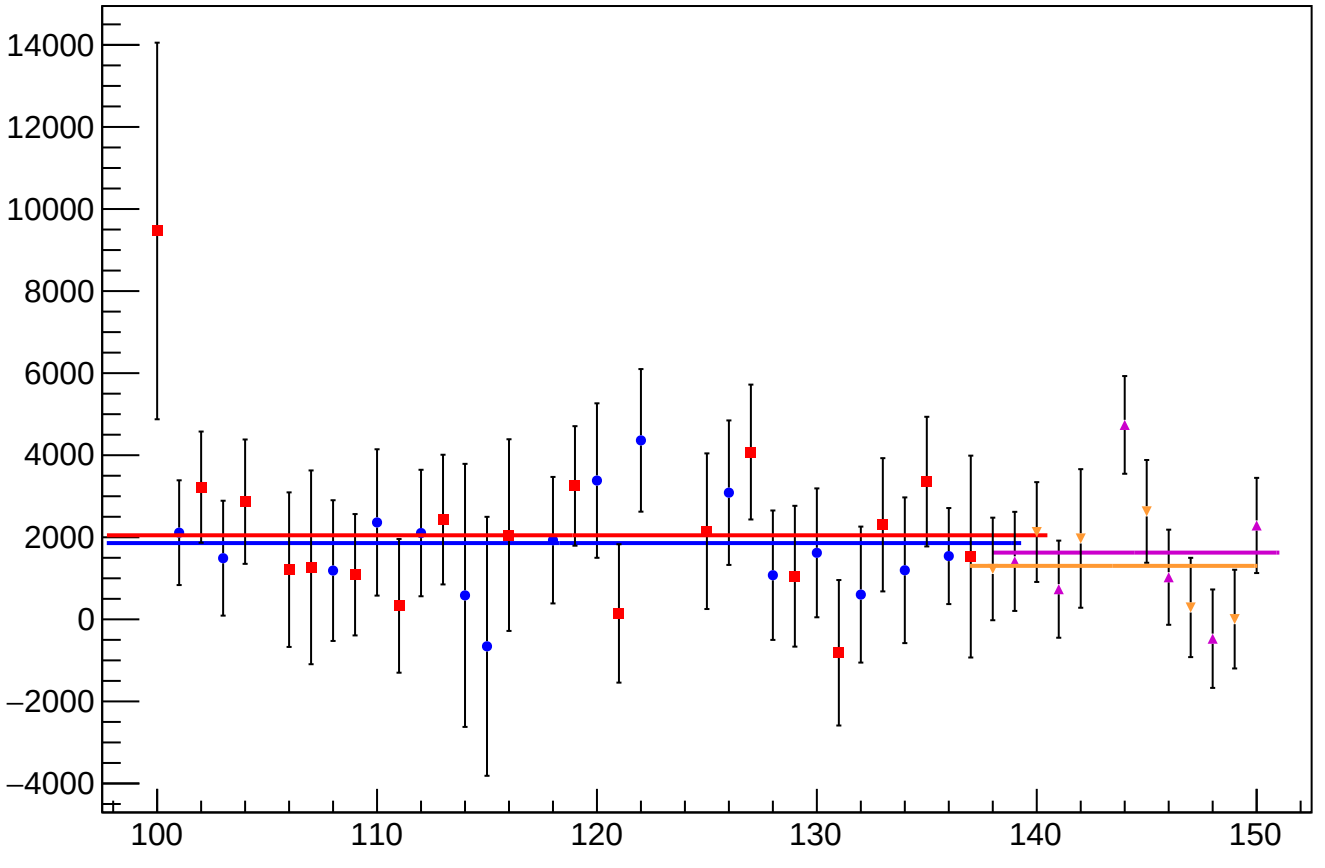
Left: 1340.815+/-0.308 $\chi^2$/NDF: 544744.2/11

Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1003.898+/-0.211 $\chi^2$/NDF:2255432.0/21

Out: 989.921+/-0.215 $\chi^2$/NDF:2399466.2/23

All: 997.024+/-0.151 $\chi^2$/NDF: 4657050.5/45




Right In: 1858.683+/-409.170 $\chi^2$/NDF: 5.4/15

Left Out: 1303.382+/-521.360 $\chi^2$/NDF:3.6/5

Right Out: 2048.674+/-408.894 $\chi^2$/NDF: 12.7/17

Left In: 1626.360+/-482.928 $\chi^2$/NDF:11.1/5

Left: 1477.213+/-354.290 $\chi^2$/NDF: 14.9/11

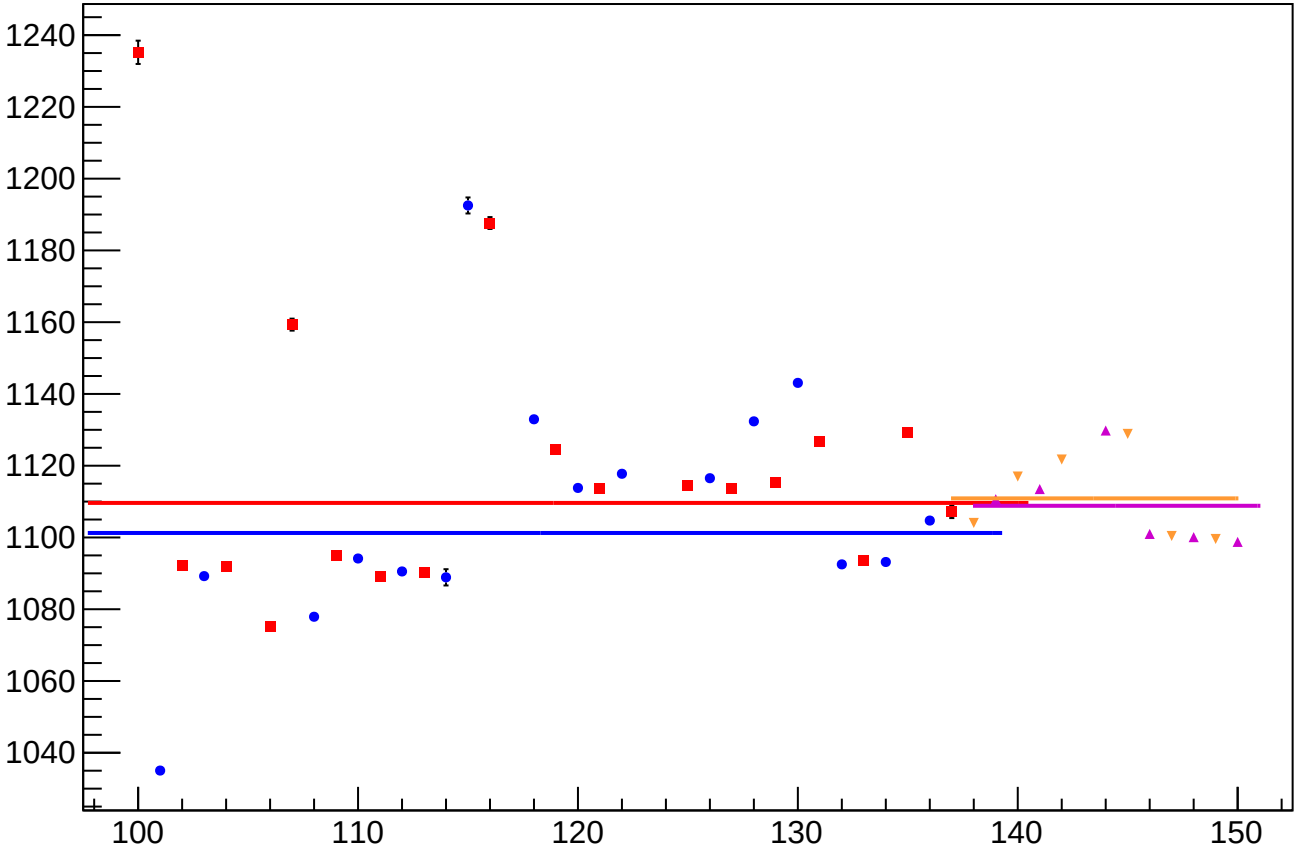
Right: 1953.743+/-289.229 $\chi^2$/NDF: 18.3/33

In: 1761.599+/-312.183 $\chi^2$/NDF:16.7/21

Out: 1764.835+/-321.744 $\chi^2$/NDF:17.6/23

All: 1763.168+/-224.051 $\chi^2$/NDF: 34.3/45

# overload_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1101.254+/-0.289 $\chi^2$/NDF: 11308.3/15

Left Out: 1110.895+/-0.369 $\chi^2$/NDF:931.1/5

Right Out: 1109.629+/-0.289 $\chi^2$/NDF: 7673.1/17

Left In: 1108.831+/-0.341 $\chi^2$/NDF:1004.5/5

Left: 1109.784+/-0.251 $\chi^2$/NDF: 1952.6/11

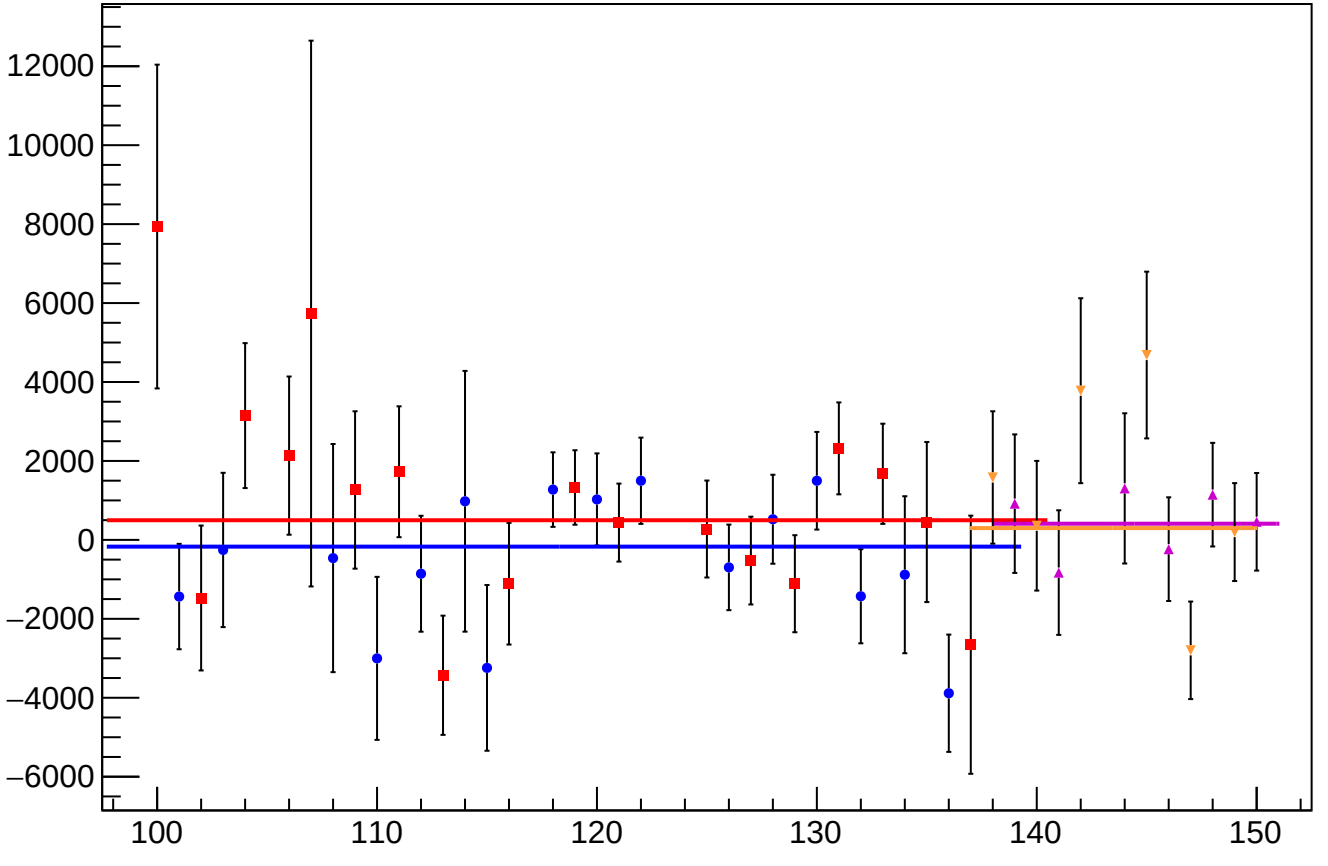
Right: 1105.444+/-0.205 $\chi^2$/NDF: 19400.5/33

In: 1104.420+/-0.221 $\chi^2$/NDF:12599.3/21

Out: 1110.111+/-0.228 $\chi^2$/NDF:8611.5/23

All: 1107.180+/-0.158 $\chi^2$/NDF: 21533.1/45

asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected




Right In: -170.930+/-345.980 $\chi^2$/NDF: 20.9/15

Left Out: 298.885+/-640.487 $\chi^2$/NDF:13.4/5

Right Out: 497.957+/-345.565 $\chi^2$/NDF: 23.9/17

Left In: 409.942+/-595.881 $\chi^2$/NDF:1.5/5

Left: 358.415+/-436.270 $\chi^2$/NDF: 14.9/11

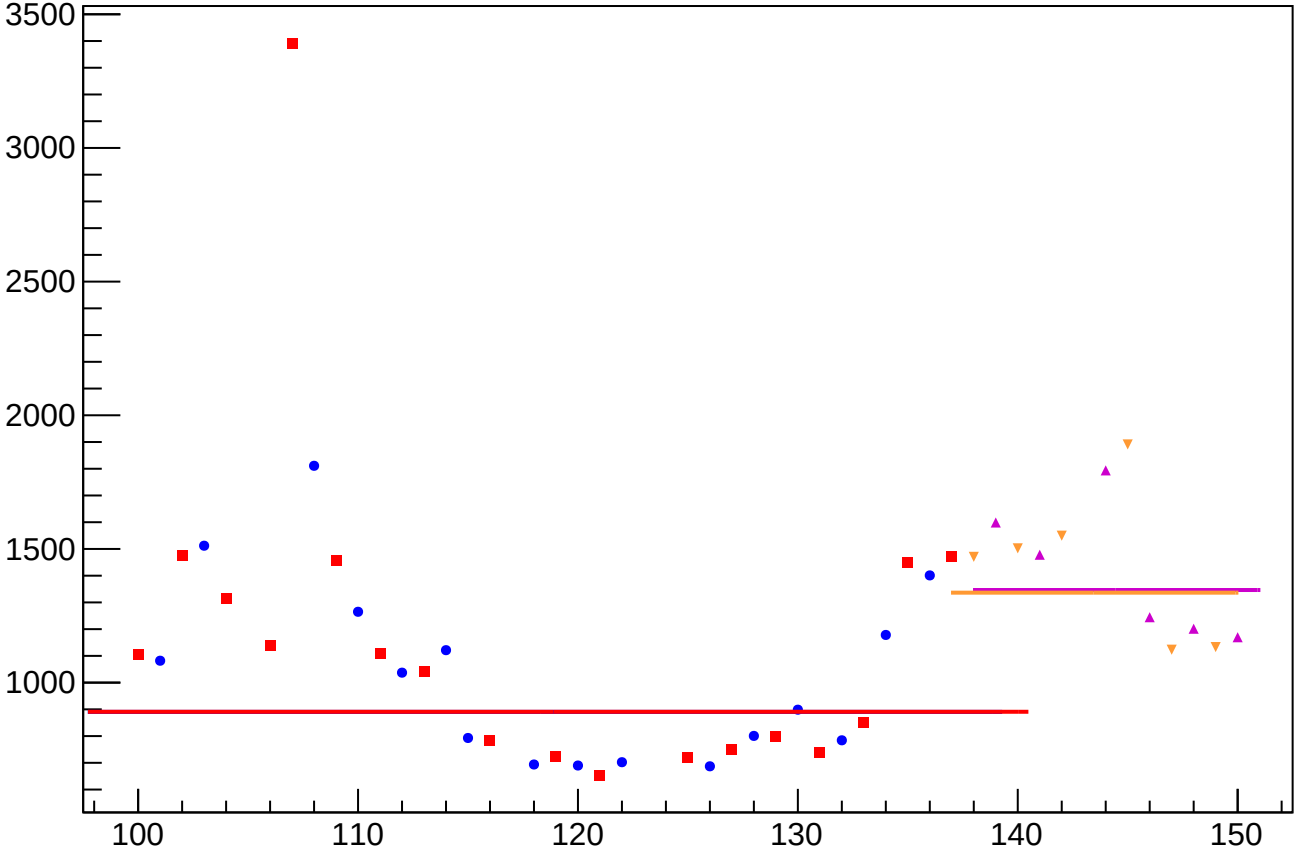
Right: 163.915+/-244.498 $\chi^2$/NDF: 46.7/33

In: -24.478+/-299.203 $\chi^2$/NDF:23.1/21

Out: 453.073+/-304.124 $\chi^2$/NDF:37.4/23

All: 210.403+/-213.287 $\chi^2$/NDF: 61.7/45

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 890.495+/-0.245 $\chi^2$/NDF: 1128739.3/15

Left Out: 1336.491+/-0.453 $\chi^2$/NDF:301040.4/5

Right Out: 890.938+/-0.244 $\chi^2$/NDF: 1341804.2/17

Left In: 1346.403+/-0.421 $\chi^2$/NDF:243154.0/5

Left: 1341.804+/-0.308 $\chi^2$/NDF: 544451.2/11

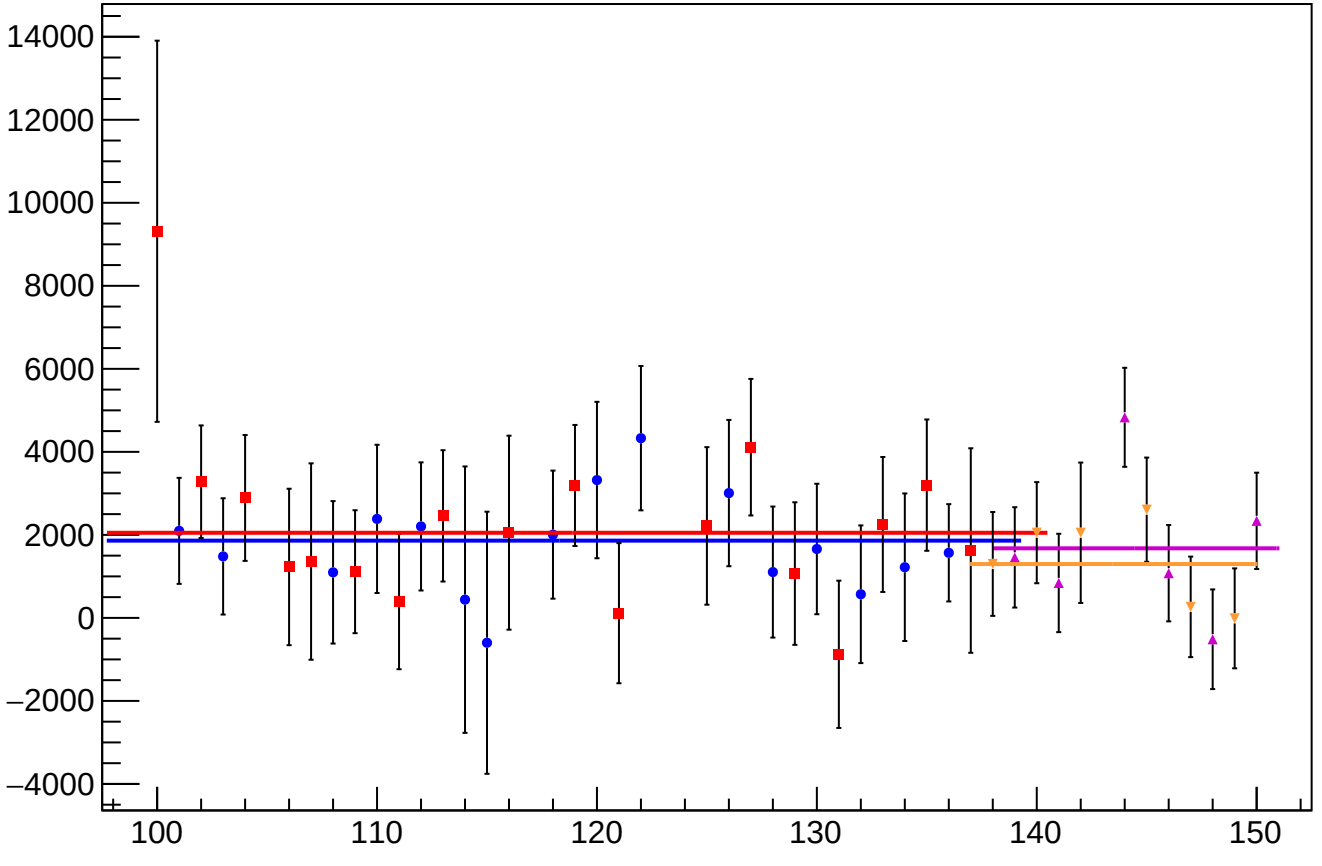
Right: 890.717+/-0.173 $\chi^2$/NDF: 2470545.1/33

In: 1005.440+/-0.212 $\chi^2$/NDF:2247471.9/21

Out: 991.395+/-0.215 $\chi^2$/NDF:2392474.1/23

All: 998.532+/-0.151 $\chi^2$/NDF: 4642113.4/45

# eigen_cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1297.203+/-521.992 $\chi^2$/NDF:3.6/5

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1676.316+/-483.482 $\chi^2$/NDF:11.5/5

Left: 1501.258+/-354.707 $\chi^2$/NDF: 15.3/11

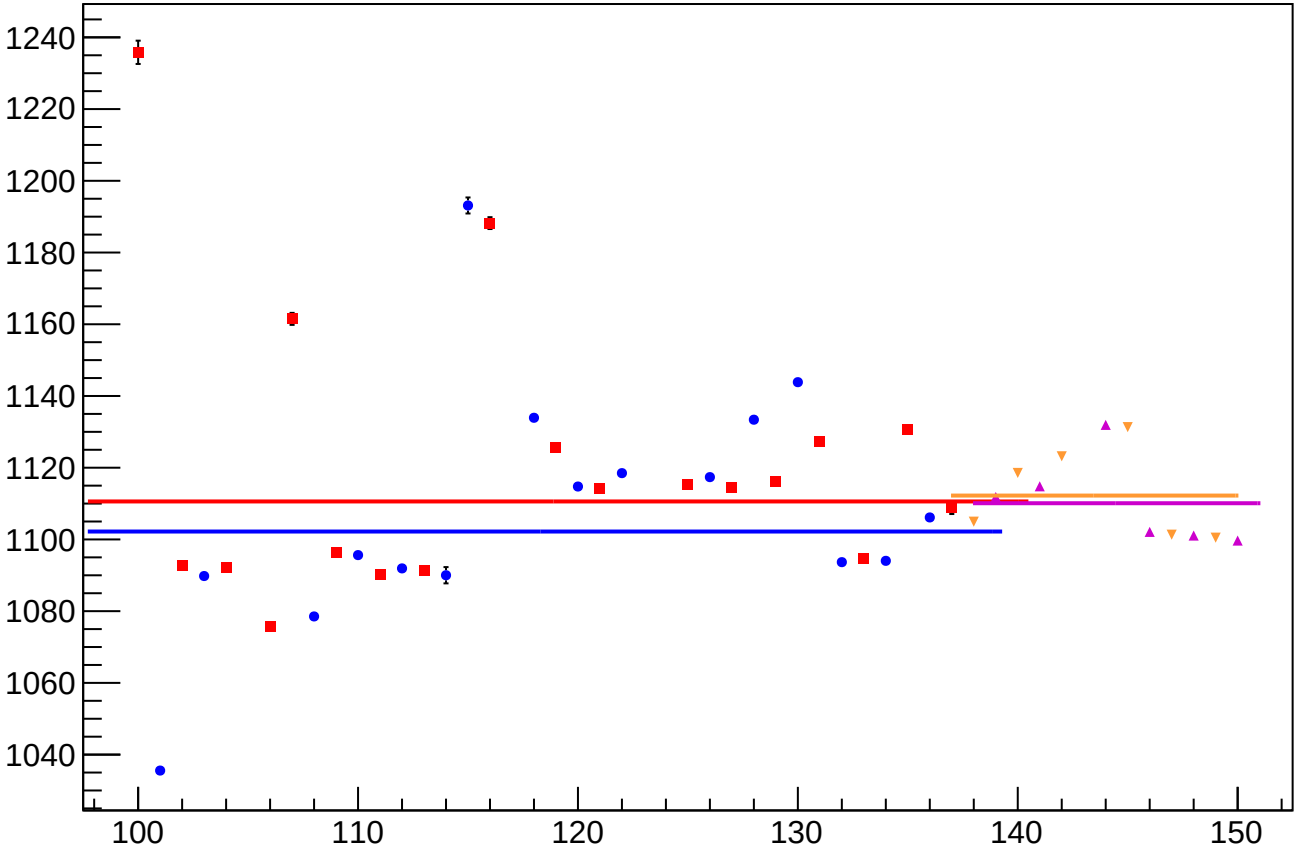
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1784.155+/-312.490 $\chi^2$/NDF:16.9/21

Out: 1763.945+/-322.066 $\chi^2$/NDF:17.4/23

All: 1774.355+/-224.273 $\chi^2$/NDF: 34.3/45

# eigen_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1112.233+/-0.369 $\chi^2$/NDF:1020.1/5

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1110.097+/-0.342 $\chi^2$/NDF:1075.3/5

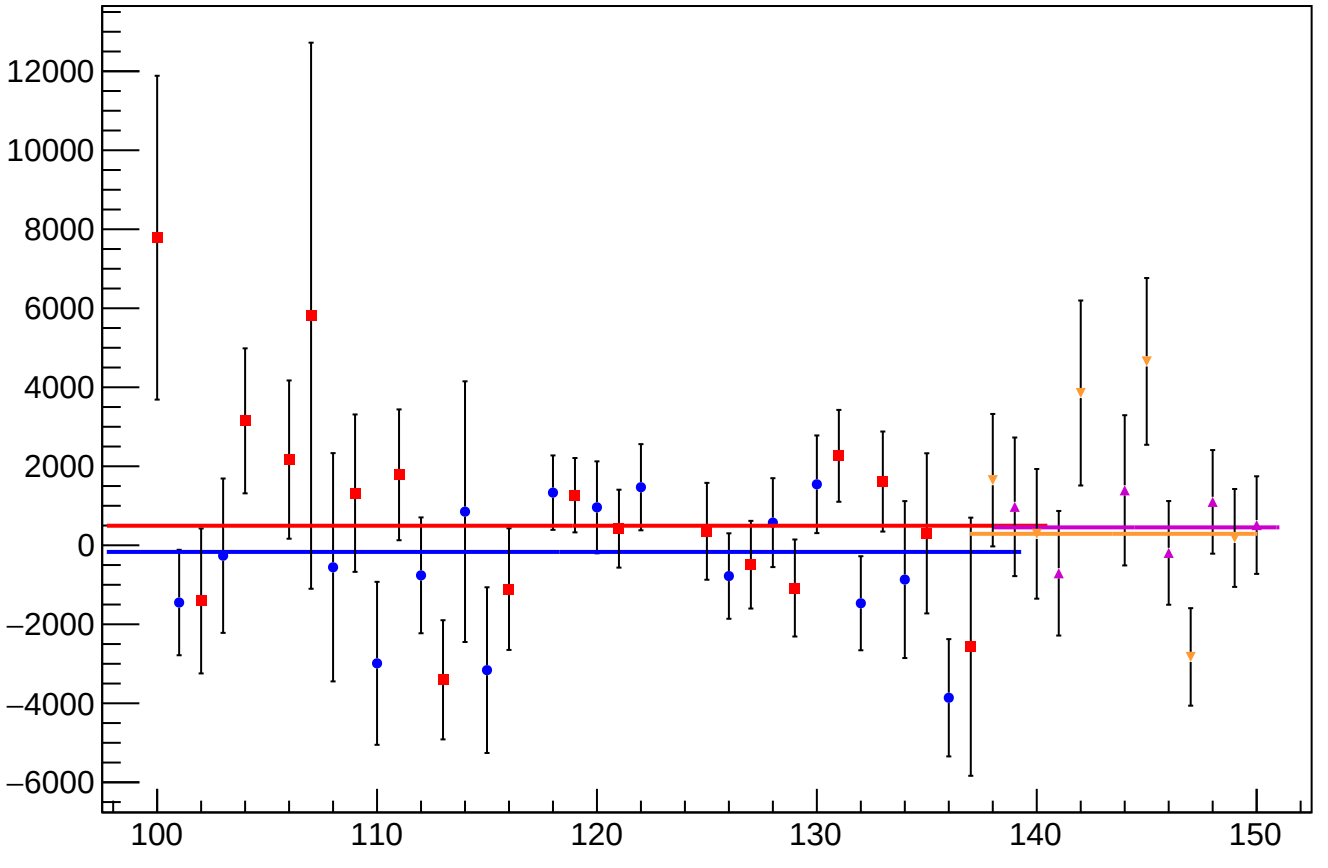
Left: 1111.083+/-0.251 $\chi^2$/NDF: 2113.4/11

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.502+/-0.221 $\chi^2$/NDF:12734.5/21

Out: 1111.216+/-0.228 $\chi^2$/NDF:8728.4/23

All: 1108.273+/-0.159 $\chi^2$/NDF: 21787.2/45




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 290.404+/-640.015 $\chi^2$/NDF:13.6/5

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 453.249+/-595.458 $\chi^2$/NDF:1.4/5

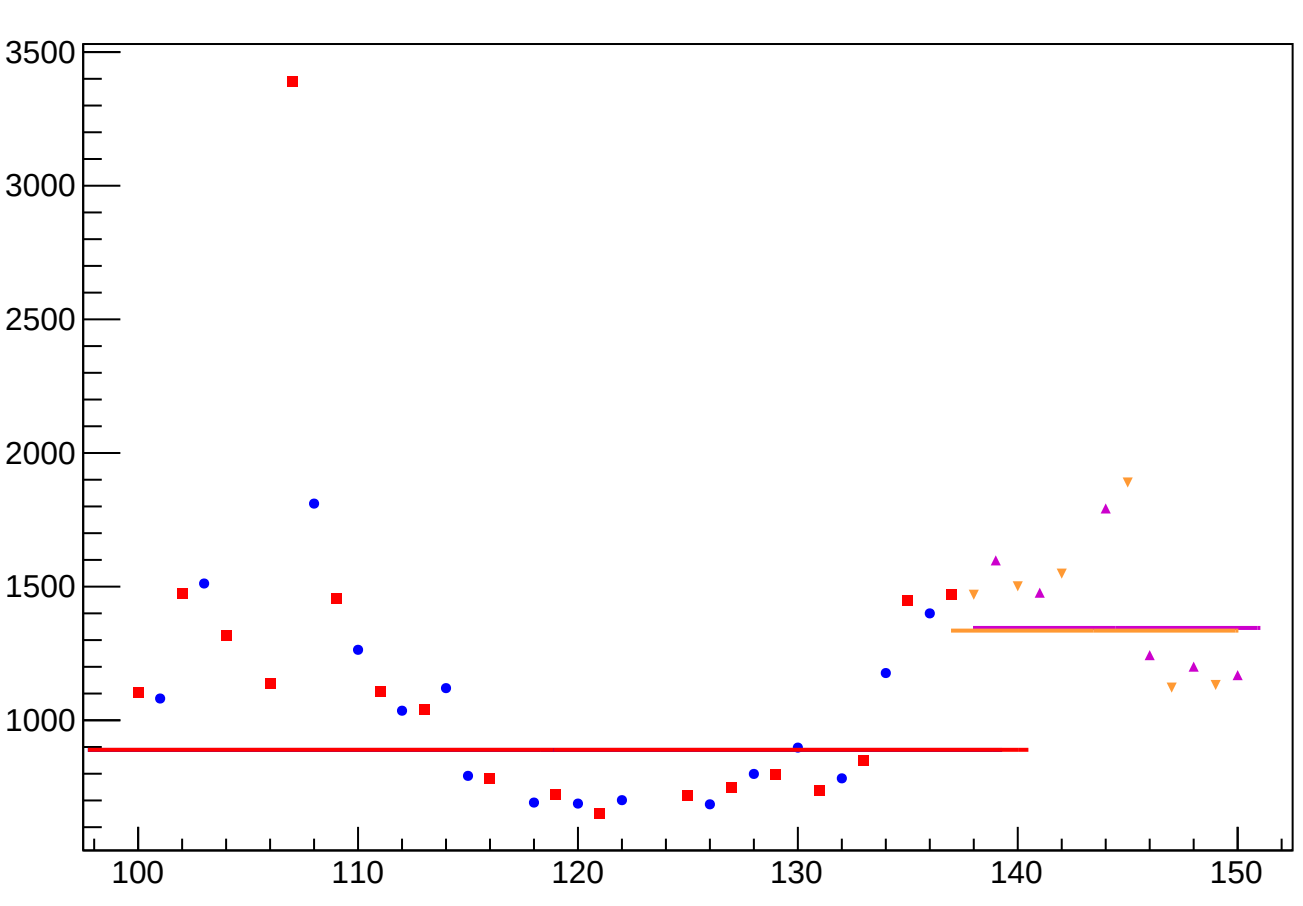
Left: 377.692+/-435.954 $\chi^2$/NDF: 15.0/11

Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -11.486+/-298.801 $\chi^2$/NDF:23.2/21

Out: 449.057+/-303.725 $\chi^2$/NDF:37.0/23

All: 215.022+/-213.004 $\chi^2$/NDF: 61.4/45




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1335.483+/-0.453 $\chi^2$/NDF:301200.9/5

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1345.431+/-0.421 $\chi^2$/NDF:243284.3/5

Left: 1340.815+/-0.308 $\chi^2$/NDF: 544744.2/11

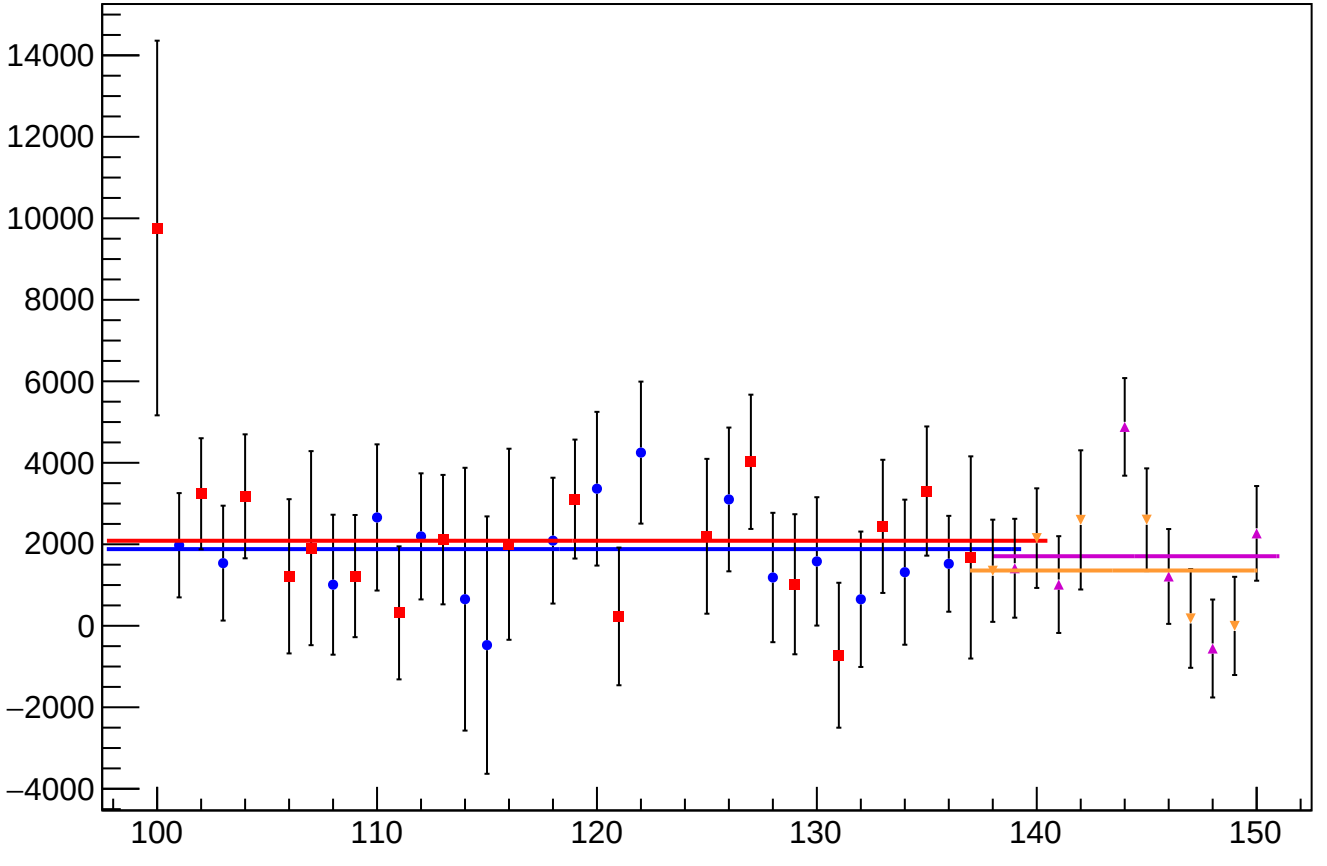
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1003.898+/-0.211 $\chi^2$/NDF:2255432.0/21

Out: 989.921+/-0.215 $\chi^2$/NDF:2399466.2/23

All: 997.024+/-0.151 $\chi^2$/NDF: 4657050.5/45

# dit_asym_usl_mean vs Slug, Sign Corrected




Right In: 1881.524+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 1356.765+/-523.580 $\chi^2$/NDF:4.1/5

Right Out: 2086.886+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 1707.150+/-484.690 $\chi^2$/NDF:11.4/5

Left: 1545.452+/-355.682 $\chi^2$/NDF: 15.8/11

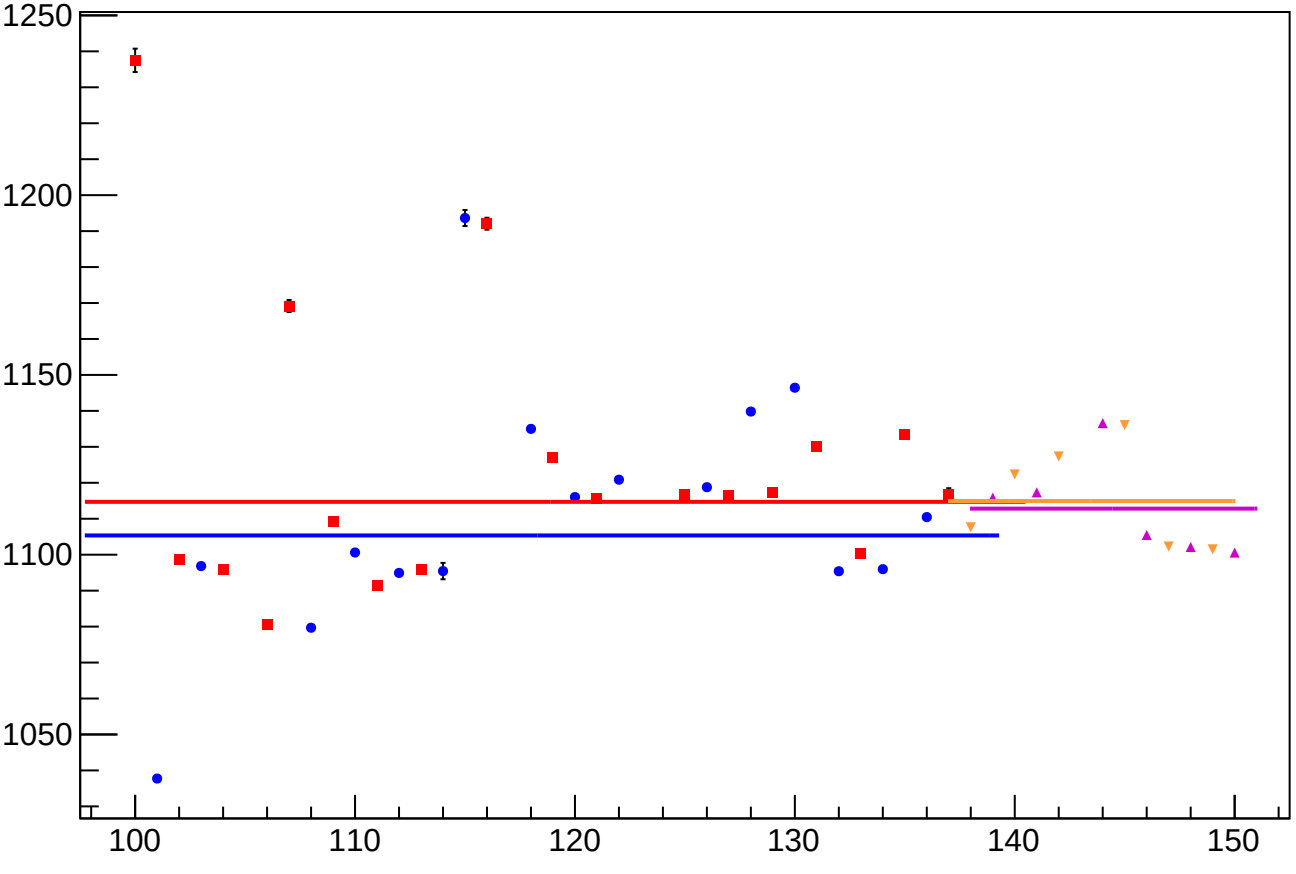
Right: 1984.184+/-290.439 $\chi^2$/NDF: 17.7/33

In: 1808.648+/-313.339 $\chi^2$/NDF:16.7/21

Out: 1808.699+/-323.188 $\chi^2$/NDF:17.7/23

All: 1808.673+/-224.965 $\chi^2$/NDF: 34.4/45

# dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1114.915+/-0.370 $\chi^2$/NDF:1274.2/5

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.3/17

Left In: 1112.812+/-0.343 $\chi^2$/NDF:1287.8/5

Left: 1113.783+/-0.252 $\chi^2$/NDF: 2579.4/11

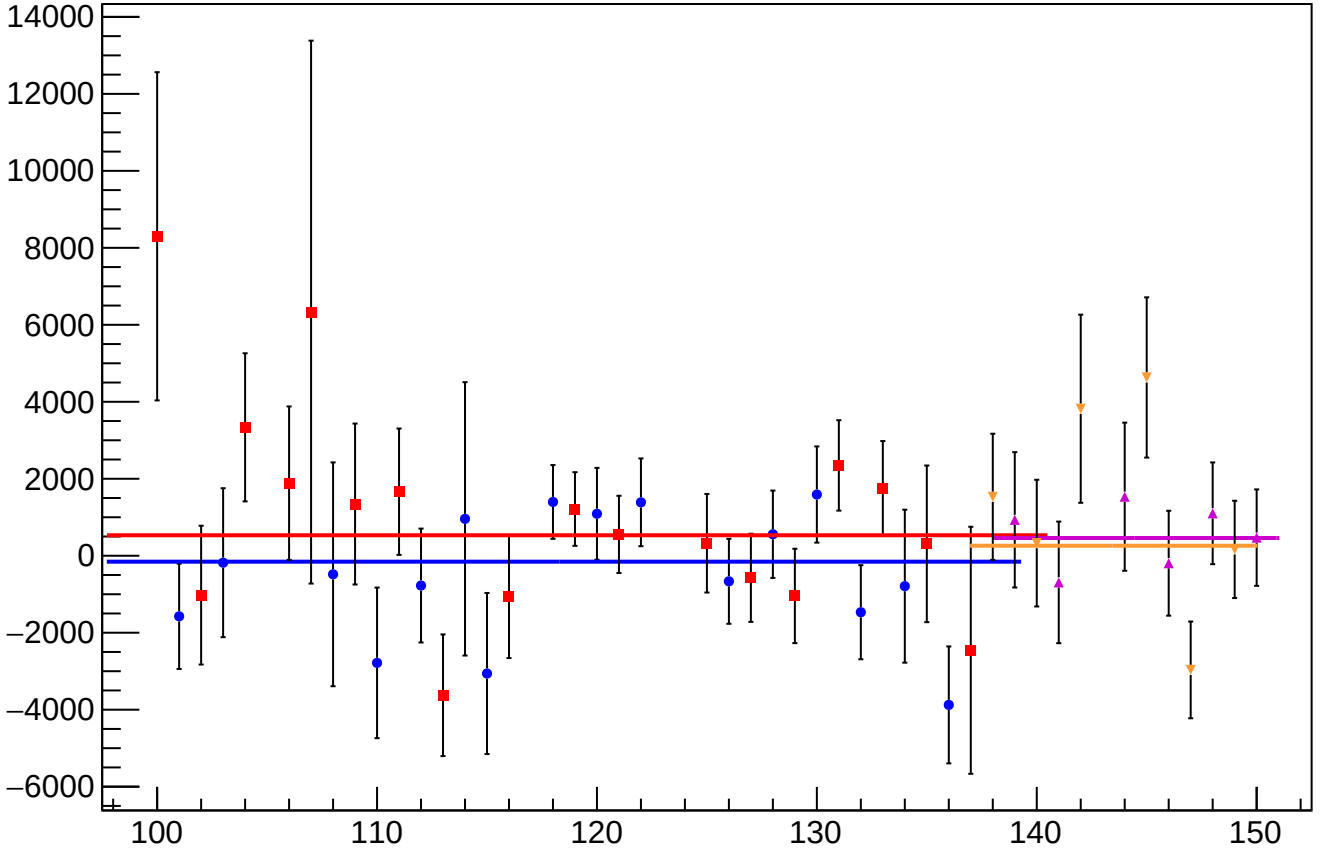
Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.4/33

In: 1108.472+/-0.222 $\chi^2$/NDF:12894.2/21

Out: 1114.785+/-0.229 $\chi^2$/NDF:8604.7/23

All: 1111.531+/-0.159 $\chi^2$/NDF: 21892.3/45

# asym_usl_dit_correction_mean vs Slug, Sign Corrected




Right In: -153.999+/-351.318 $\chi^2$/NDF: 20.5/15

Left Out: 260.534+/-645.676 $\chi^2$/NDF:13.7/5

Right Out: 532.155+/-350.407 $\chi^2$/NDF: 23.2/17

Left In: 461.394+/-603.947 $\chi^2$/NDF:1.4/5

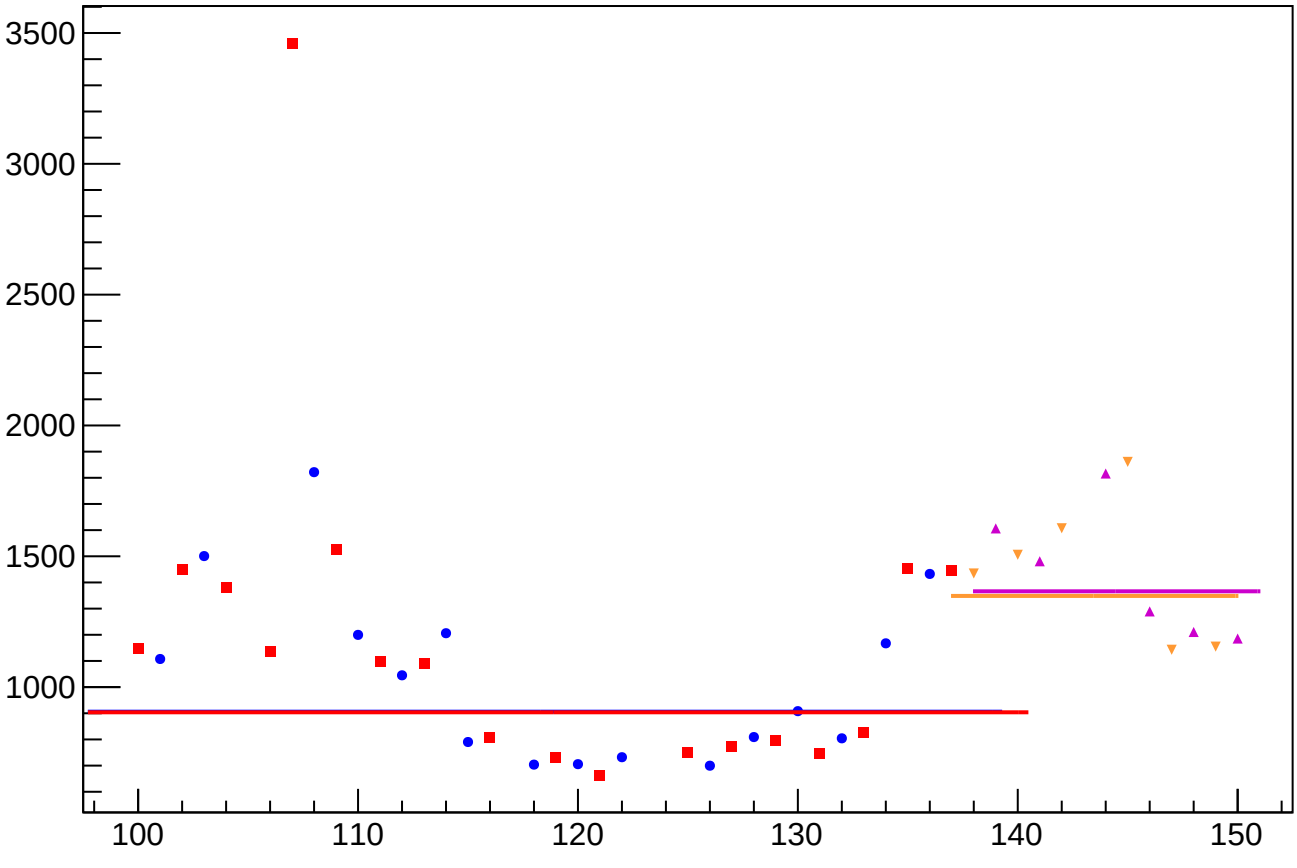
Left: 367.664+/-441.070 $\chi^2$/NDF: 15.2/11

Right: 189.968+/-248.097 $\chi^2$/NDF: 45.6/33

In: 1.589+/-303.676 $\chi^2$/NDF:22.6/21

Out: 470.358+/-307.977 $\chi^2$/NDF:37.1/23

All: 232.677+/-216.236 $\chi^2$/NDF: 60.9/45




Right In: 906.036+/-0.248 $\chi^2$/NDF: 1079435.1/15

Left Out: 1348.494+/-0.457 $\chi^2$/NDF:267838.0/5

Right Out: 903.753+/-0.248 $\chi^2$/NDF: 1339982.2/17

Left In: 1366.180+/-0.427 $\chi^2$/NDF:232892.5/5

Left: 1357.927+/-0.312 $\chi^2$/NDF: 501531.0/11

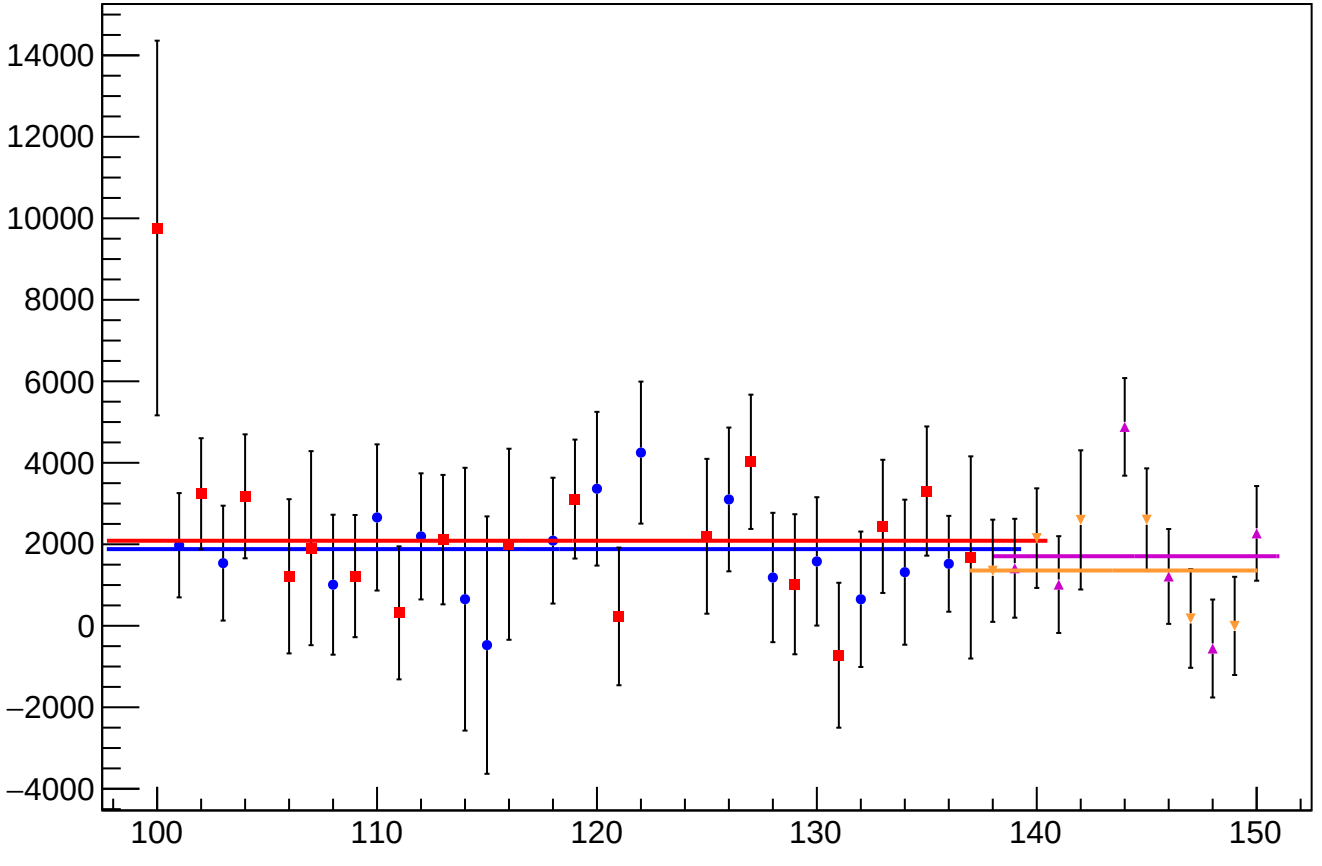
Right: 904.892+/-0.175 $\chi^2$/NDF: 2419459.6/33

In: 1022.373+/-0.215 $\chi^2$/NDF:2179773.2/21

Out: 1004.938+/-0.218 $\chi^2$/NDF:2340821.0/23

All: 1013.778+/-0.153 $\chi^2$/NDF: 4523844.2/45

# eigen_dit_asym_usl_mean vs Slug, Sign Corrected




Right In: 1881.523+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 1356.764+/-523.580 $\chi^2$/NDF:4.1/5

Right Out: 2086.884+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 1707.152+/-484.690 $\chi^2$/NDF:11.4/5

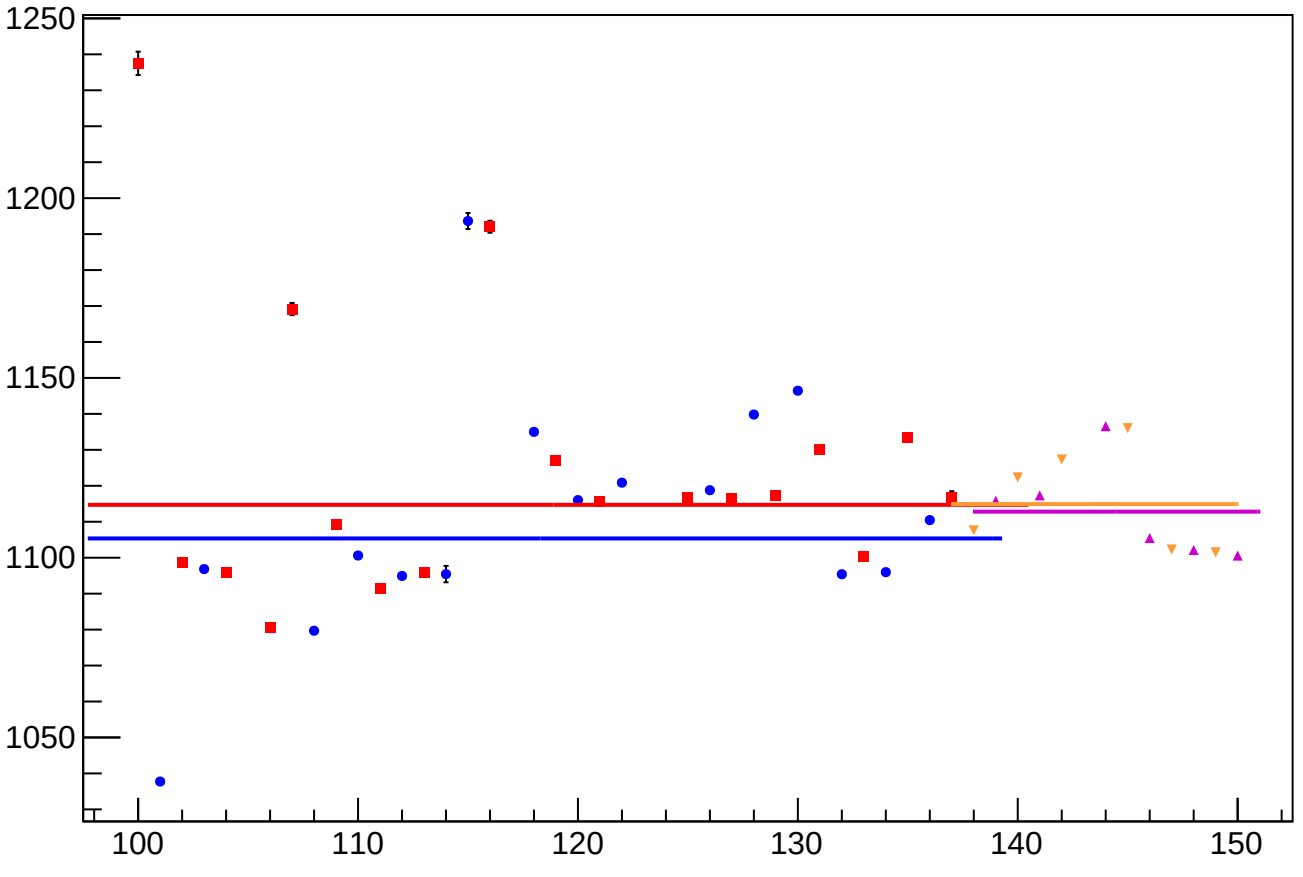
Left: 1545.453+/-355.682 $\chi^2$/NDF: 15.8/11

Right: 1984.182+/-290.439 $\chi^2$/NDF: 17.7/33

In: 1808.649+/-313.339 $\chi^2$/NDF:16.7/21

Out: 1808.697+/-323.188 $\chi^2$/NDF:17.7/23

All: 1808.672+/-224.965 $\chi^2$/NDF: 34.4/45




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1114.915+/-0.370 $\chi^2$/NDF:1274.2/5

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.2/17

Left In: 1112.812+/-0.343 $\chi^2$/NDF:1287.7/5

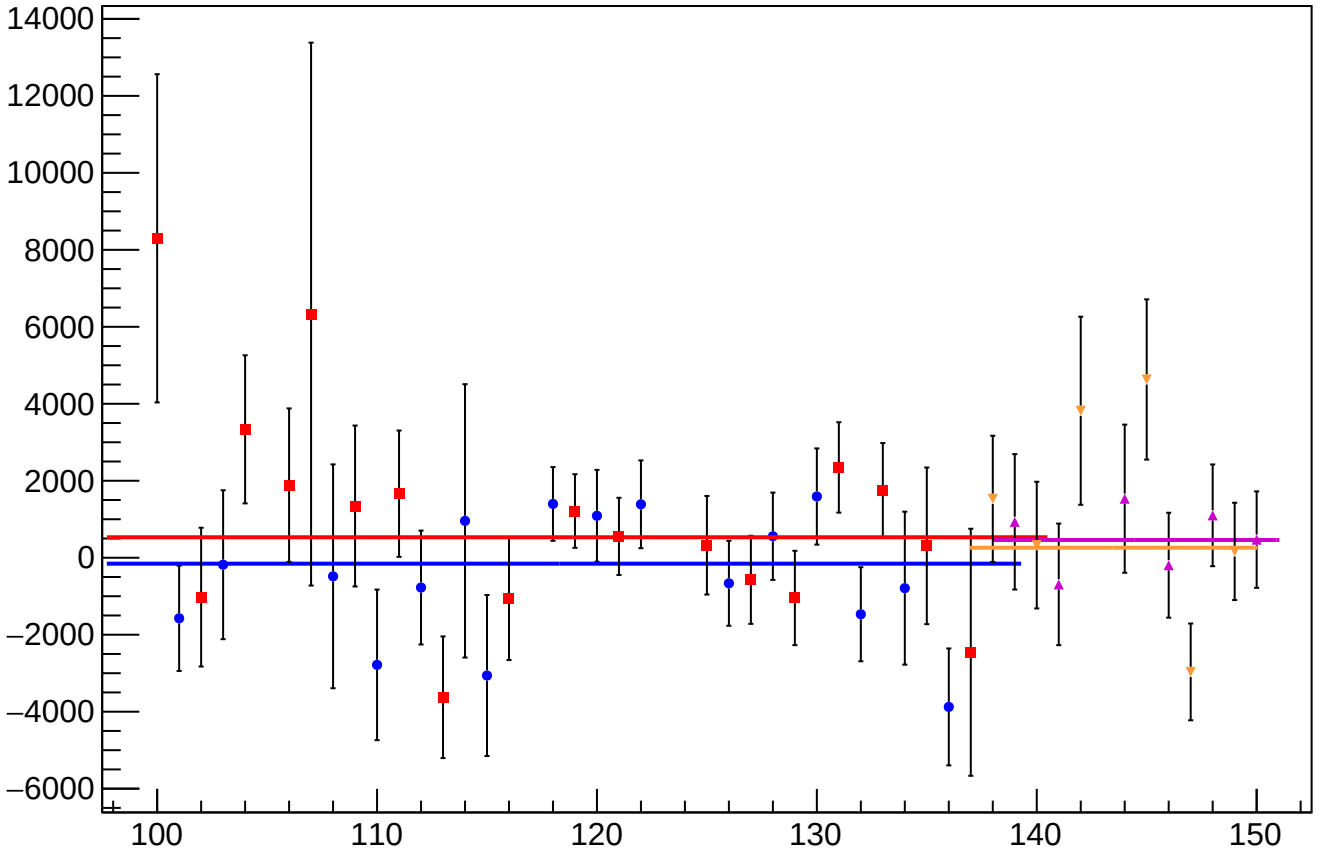
Left: 1113.783+/-0.252 $\chi^2$/NDF: 2579.4/11

Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.3/33

In: 1108.472+/-0.222 $\chi^2$/NDF:12894.2/21

Out: 1114.785+/-0.229 $\chi^2$/NDF:8604.7/23

All: 1111.531+/-0.159 $\chi^2$/NDF: 21892.3/45




Right In: -153.998+/-351.317 $\chi^2$/NDF: 20.5/15

Left Out: 260.532+/-645.677 $\chi^2$/NDF:13.7/5

Right Out: 532.154+/-350.406 $\chi^2$/NDF: 23.2/17

Left In: 461.397+/-603.948 $\chi^2$/NDF:1.4/5

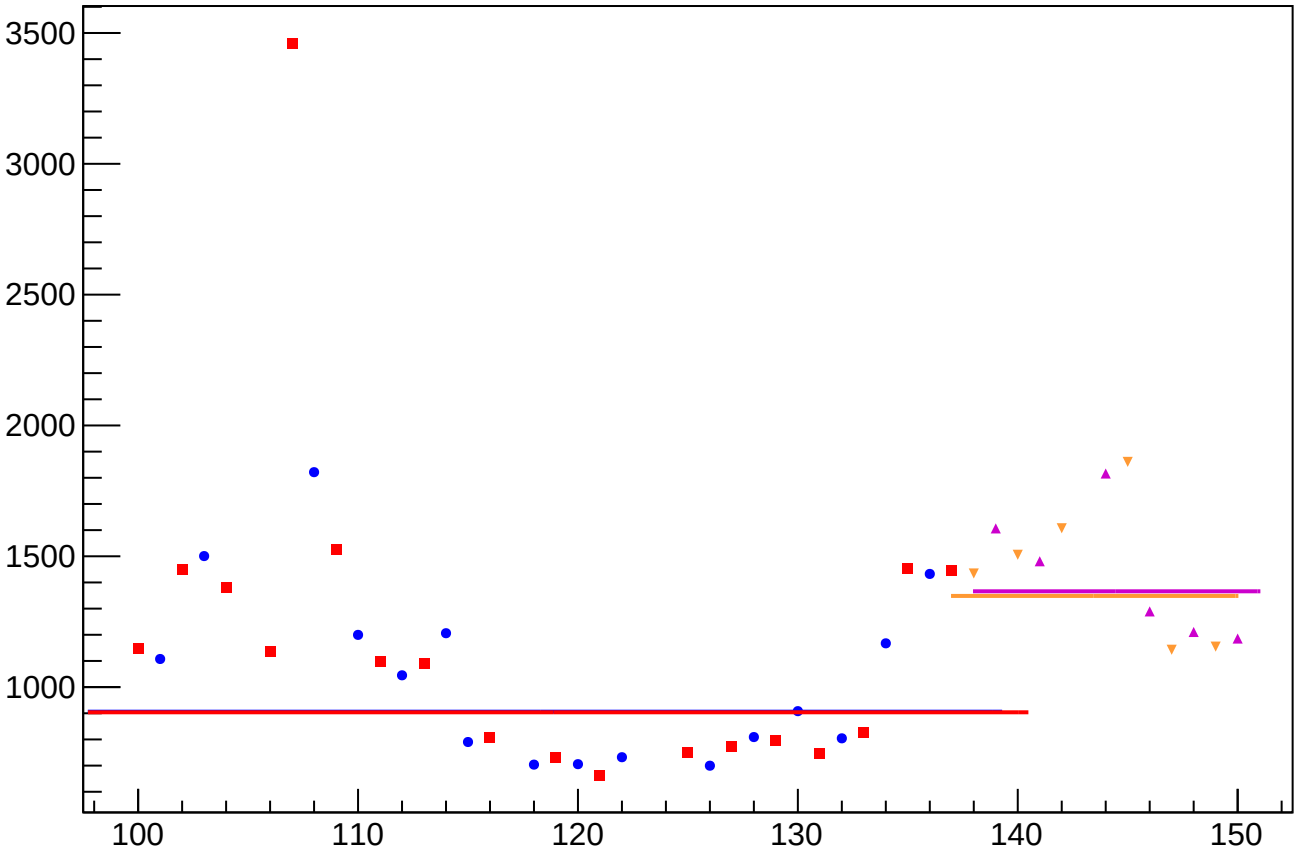
Left: 367.664+/-441.071 $\chi^2$/NDF: 15.2/11

Right: 189.969+/-248.096 $\chi^2$/NDF: 45.6/33

In: 1.590+/-303.676 $\chi^2$/NDF:22.6/21

Out: 470.357+/-307.977 $\chi^2$/NDF:37.1/23

All: 232.677+/-216.236 $\chi^2$/NDF: 60.9/45




Right In: 906.034+/-0.248 $\chi^2$/NDF: 1079440.1/15

Left Out: 1348.496+/-0.457 $\chi^2$/NDF:267836.8/5

Right Out: 903.751+/-0.248 $\chi^2$/NDF: 1339985.4/17

Left In: 1366.183+/-0.427 $\chi^2$/NDF:232891.4/5

Left: 1357.929+/-0.312 $\chi^2$/NDF: 501528.5/11

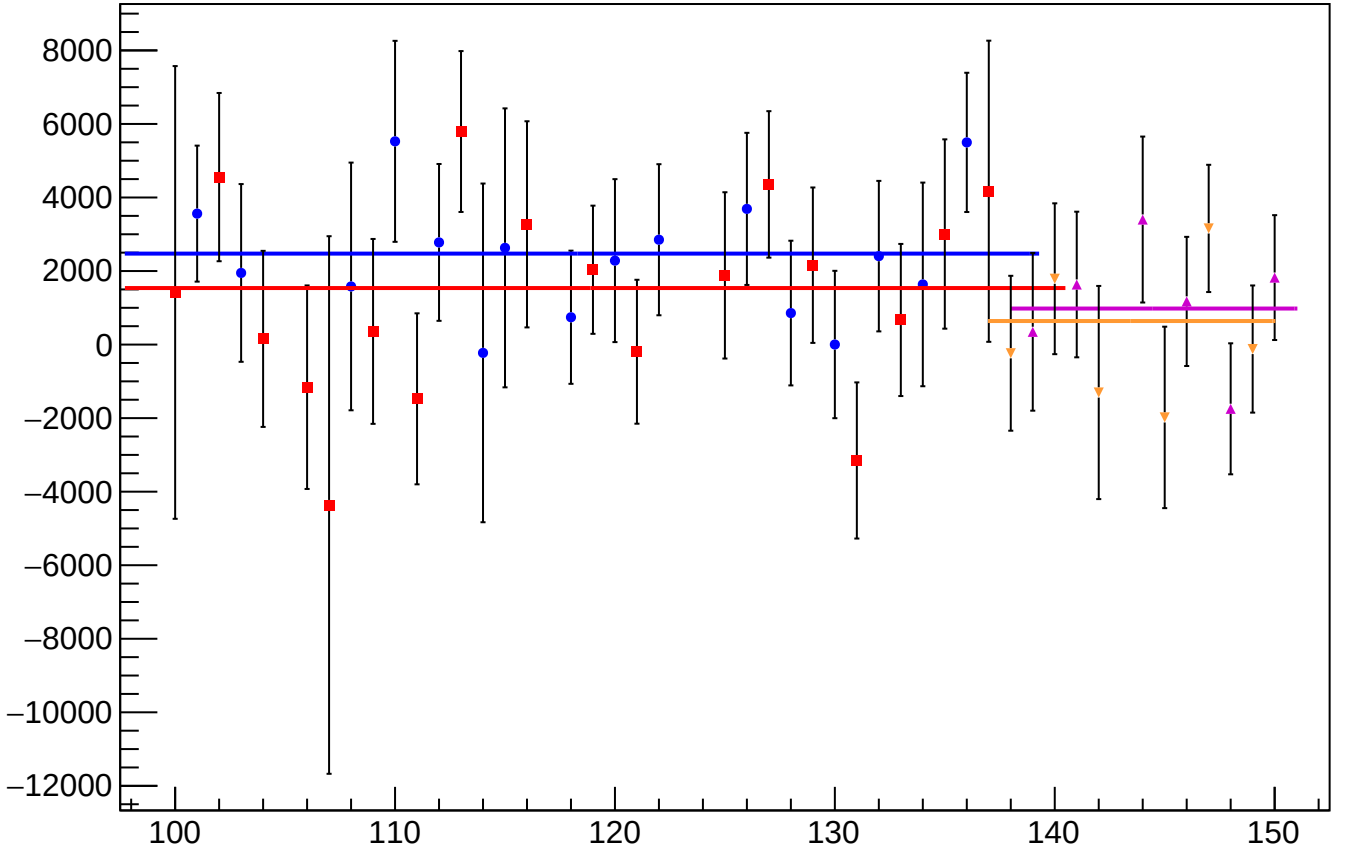
Right: 904.890+/-0.175 $\chi^2$/NDF: 2419467.8/33

In: 1022.371+/-0.215 $\chi^2$/NDF:2179792.0/21

Out: 1004.936+/-0.218 $\chi^2$/NDF:2340836.5/23

All: 1013.776+/-0.153 $\chi^2$/NDF: 4523878.6/45

# asym_usl_mean vs Slug, Sign Corrected




Right In: 2474.066+/-562.796 $\chi^2$/NDF: 8.2/15

Left Out: 640.585+/-840.663 $\chi^2$/NDF:4.4/5

Right Out: 1537.435+/-563.556 $\chi^2$/NDF: 18.5/17

Left In: 980.127+/-777.274 $\chi^2$/NDF:3.9/5

Left: 823.638+/-570.711 $\chi^2$/NDF: 8.4/11

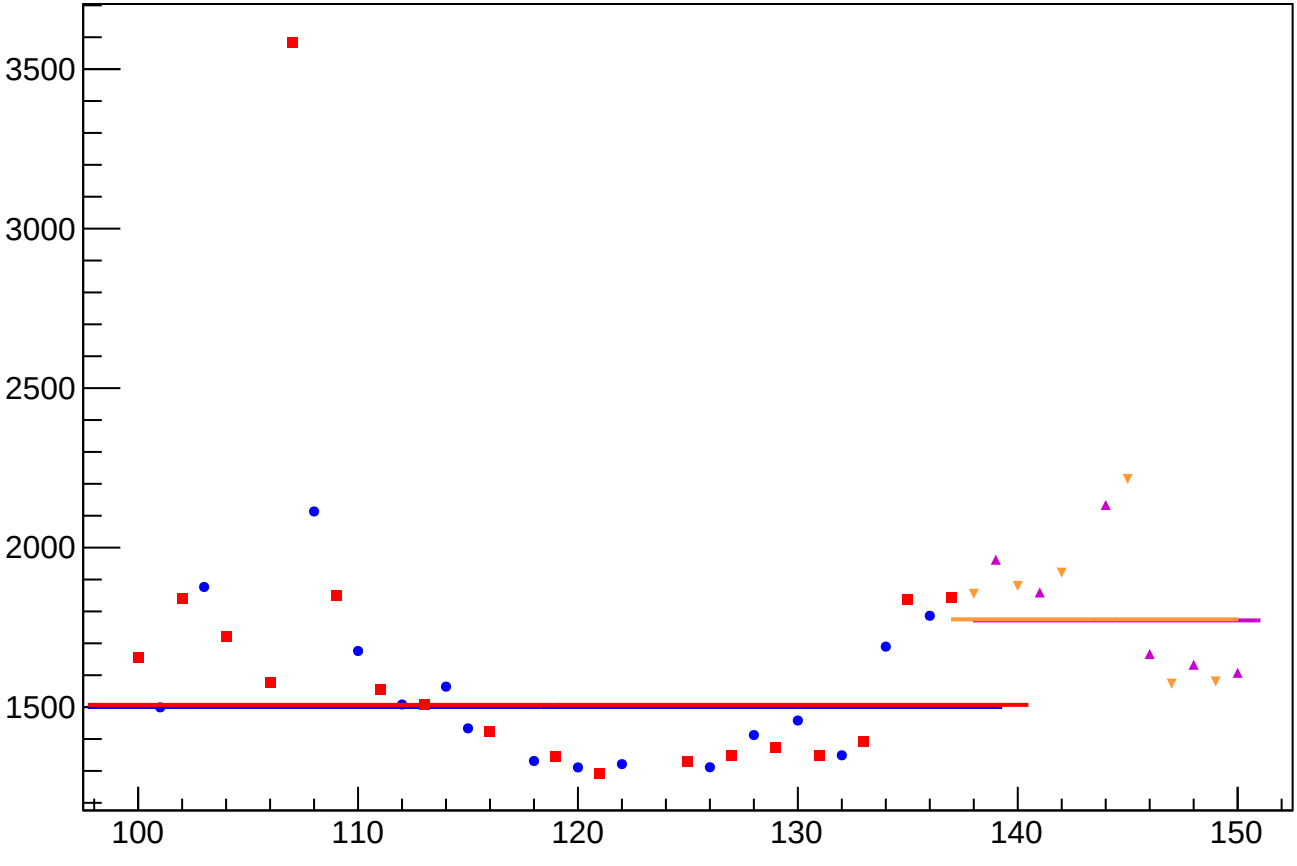
Right: 2006.383+/-398.225 $\chi^2$/NDF: 28.1/33

In: 1960.229+/-455.848 $\chi^2$/NDF:14.6/21

Out: 1259.360+/-468.105 $\chi^2$/NDF:23.7/23

All: 1619.090+/-326.581 $\chi^2$/NDF: 39.4/45

# asym_usl_rms vs Slug, Sign Corrected




Right In: 1500.377+/-0.398 $\chi^2$/NDF: 258792.8/15

Left Out: 1775.232+/-0.594 $\chi^2$/NDF:129347.2/5

Right Out: 1507.098+/-0.398 $\chi^2$/NDF: 401227.7/17

Left In: 1771.838+/-0.550 $\chi^2$/NDF:109184.6/5

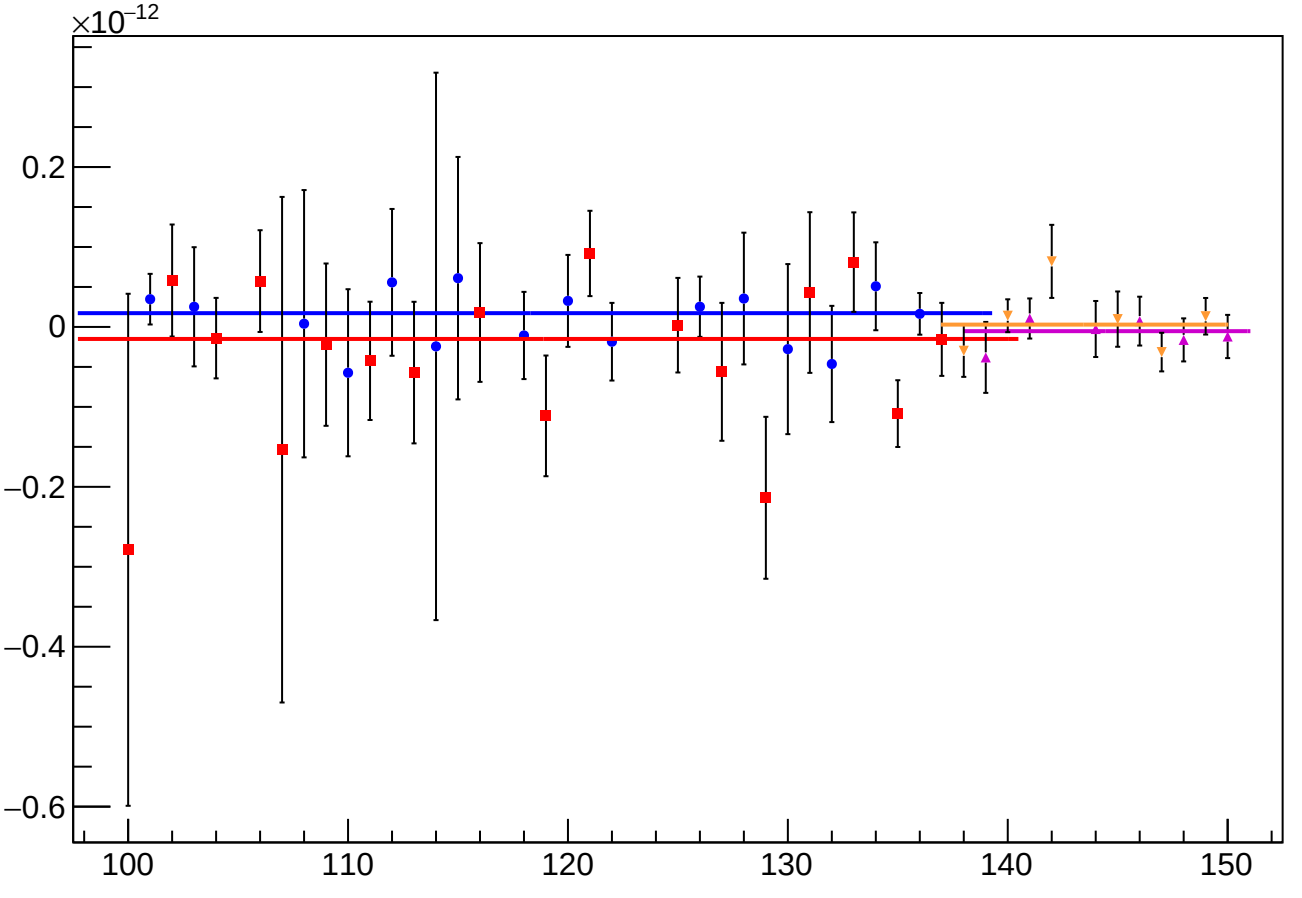
Left: 1773.402+/-0.404 $\chi^2$/NDF: 238549.4/11

Right: 1503.733+/-0.282 $\chi^2$/NDF: 660162.8/33

In: 1593.745+/-0.322 $\chi^2$/NDF:528019.0/21

Out: 1590.235+/-0.331 $\chi^2$/NDF:670953.9/23

All: 1592.037+/-0.231 $\chi^2$/NDF: 1199030.7/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.6/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

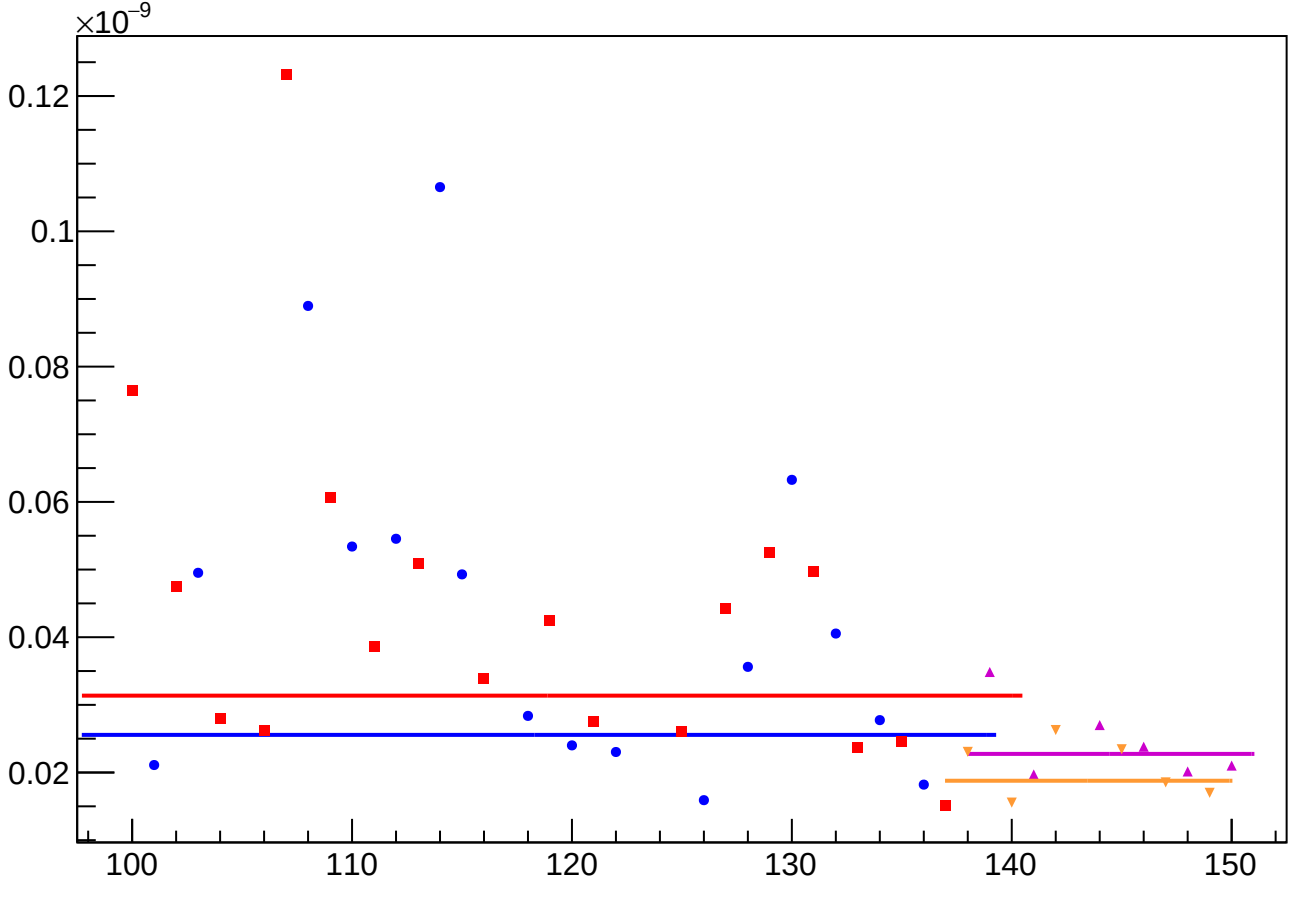
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.2/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:6.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:28.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 35.3/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1707801.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:186038.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228078.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:237118.0/5

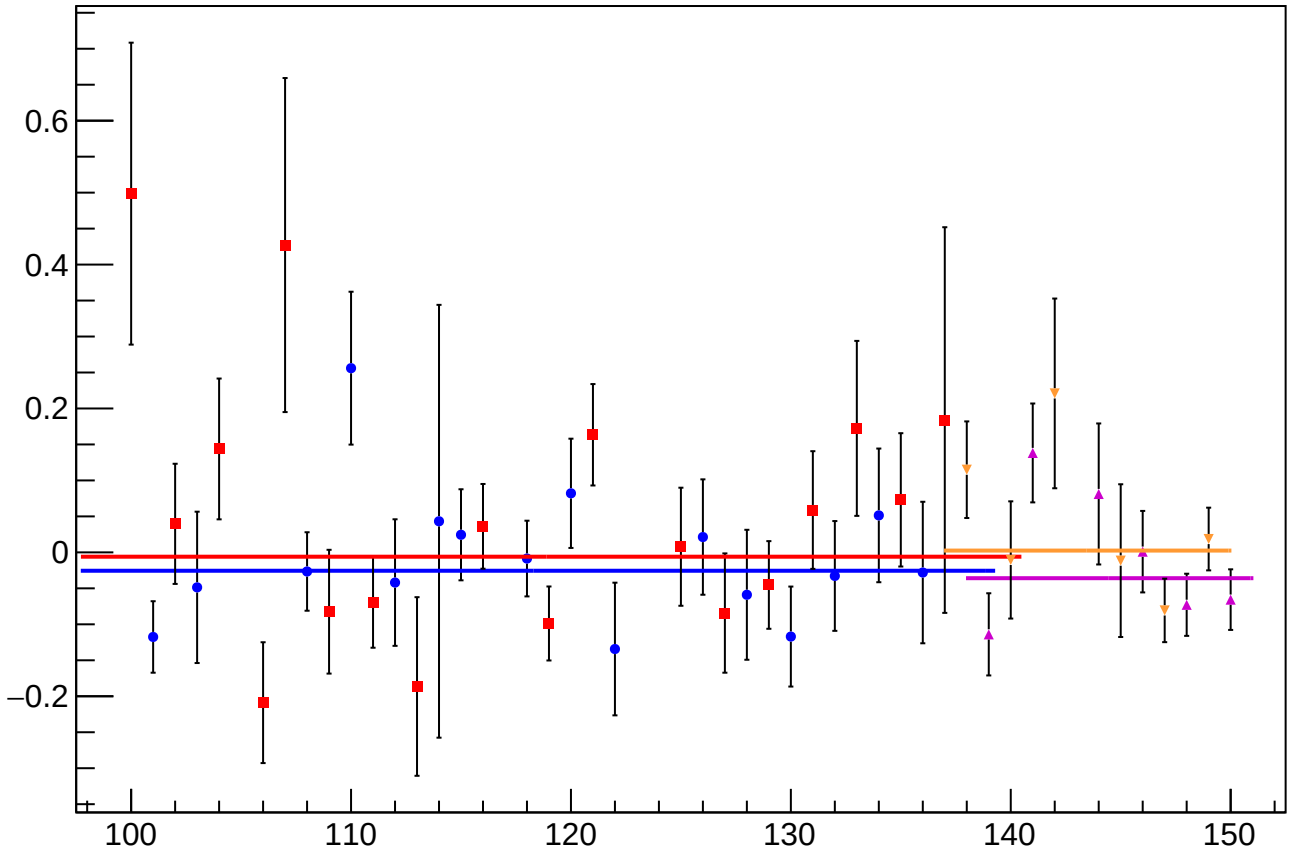
Left: 0.000+/-0.000 $\chi^2$/NDF: 539913.3/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 3088169.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:1992620.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2246609.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4257307.2/45




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.002+/-0.025 $\chi^2$/NDF:9.3/5

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.036+/-0.022 $\chi^2$/NDF:11.4/5

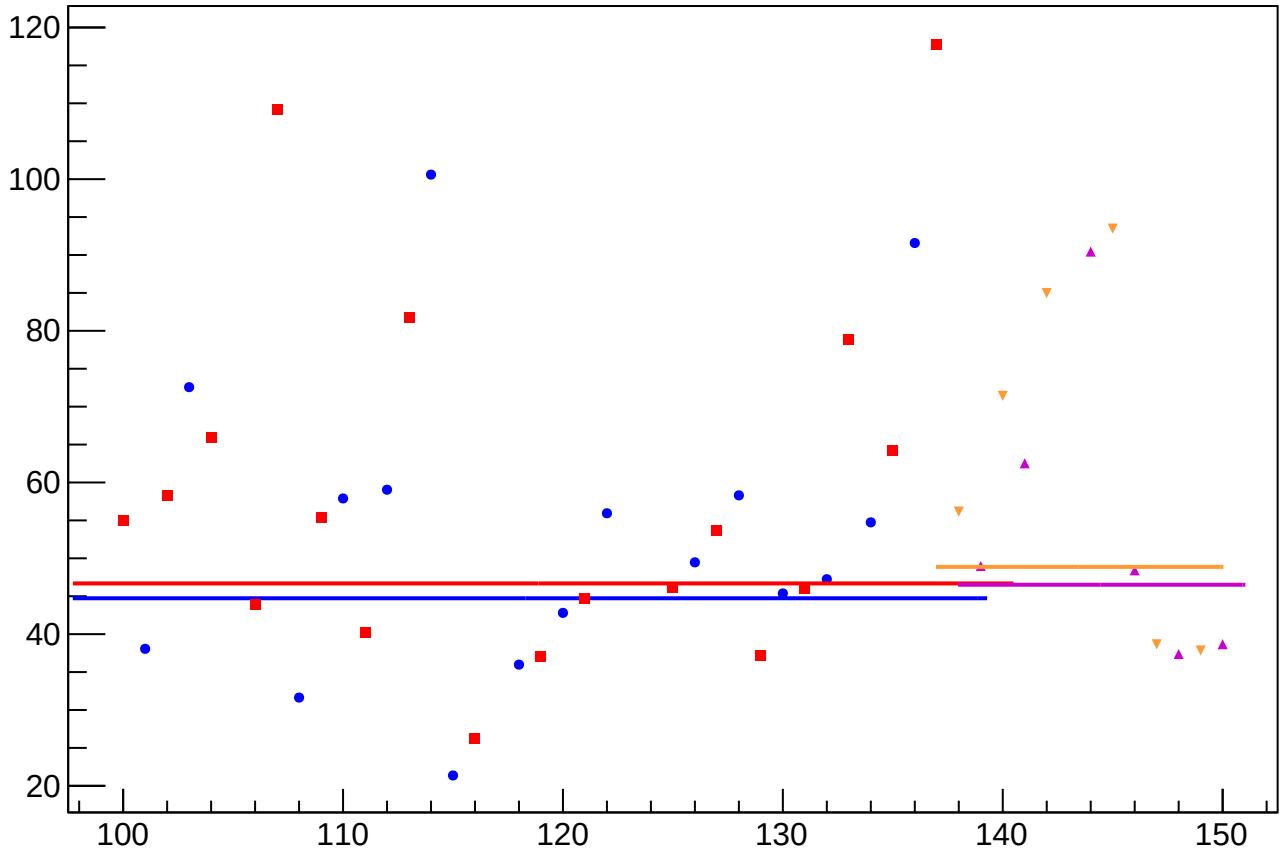
Left: -0.019+/-0.017 $\chi^2$/NDF: 22.0/11

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.030+/-0.014 $\chi^2$/NDF:29.1/21

Out: -0.003+/-0.015 $\chi^2$/NDF:45.9/23

All: -0.017+/-0.010 $\chi^2$/NDF: 76.7/45




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 48.871+/-0.018 $\chi^2$/NDF:915099.1/5

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 46.517+/-0.016 $\chi^2$/NDF:675184.4/5

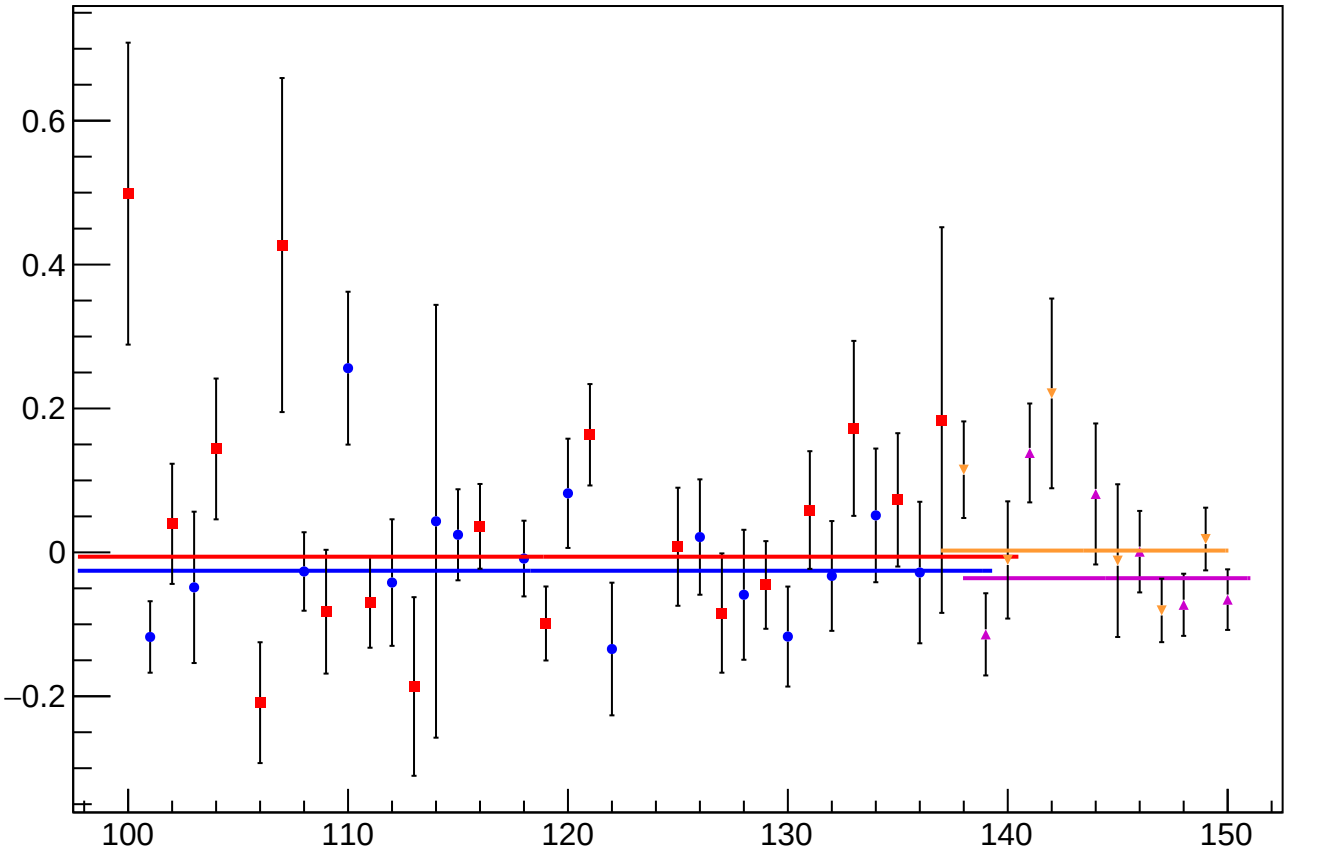
Left: 47.538+/-0.012 $\chi^2$/NDF: 1600070.4/11

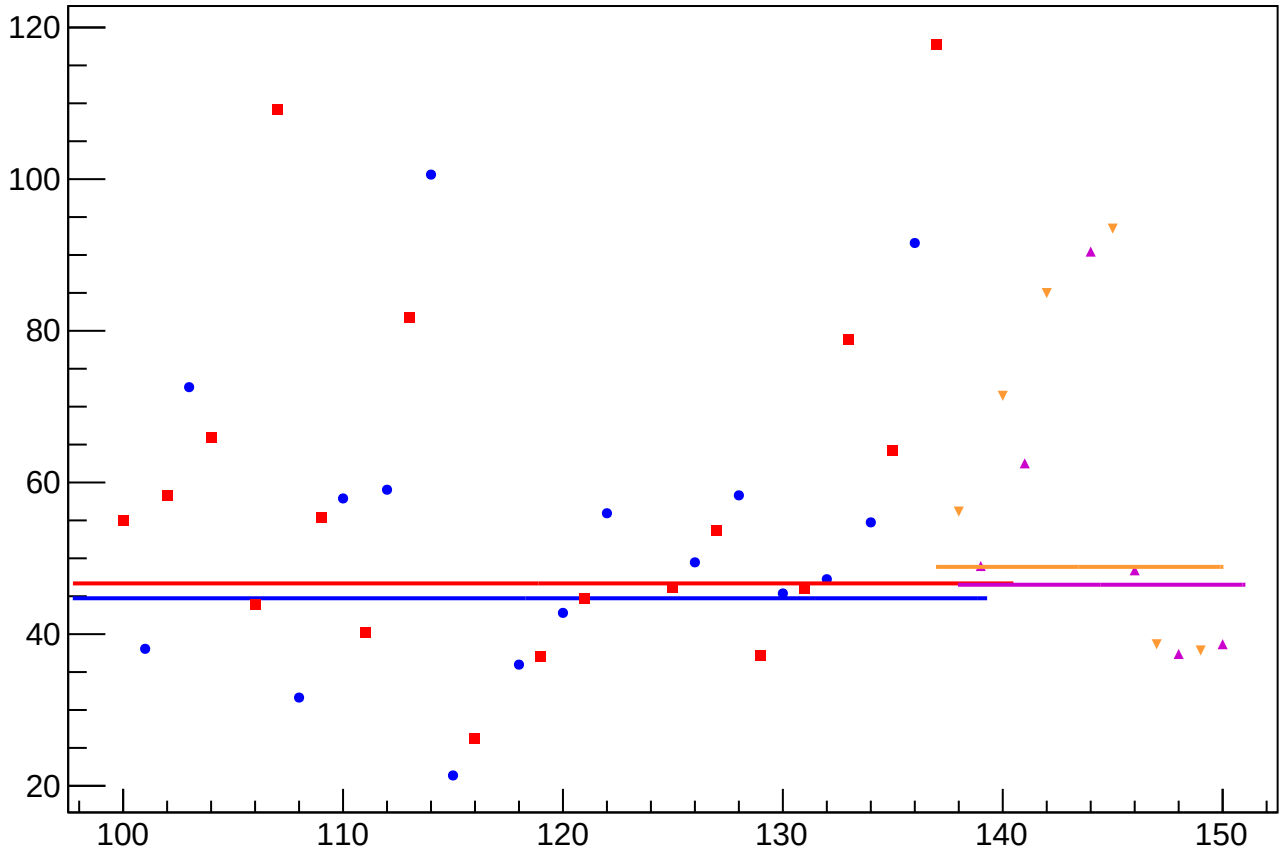
Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

In: 45.478+/-0.010 $\chi^2$/NDF:2017265.8/21

Out: 47.497+/-0.011 $\chi^2$/NDF:2119911.0/23

All: 46.414+/-0.007 $\chi^2$/NDF: 4155612.8/45


asym_usl_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.6
0.4
0.2
0
−0.2
100
110
120
130
140
150
Right In: -0.026+/-0.019 χ²/NDF: 17.6/15
Left Out: 0.002+/-0.025 χ²/NDF:9.3/5
Right Out: -0.006+/-0.019 χ²/NDF: 36.5/17
Left In: -0.036+/-0.022 χ²/NDF:11.4/5
Left: -0.019+/-0.017 χ²/NDF: 22.0/11
Right: -0.016+/-0.013 χ²/NDF: 54.7/33
In: -0.030+/-0.014 χ²/NDF:29.1/21
Out: -0.003+/-0.015 χ²/NDF:45.9/23
All: -0.017+/-0.010 χ²/NDF: 76.7/45




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 48.871+/-0.018 $\chi^2$/NDF:915099.1/5

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 46.517+/-0.016 $\chi^2$/NDF:675184.4/5

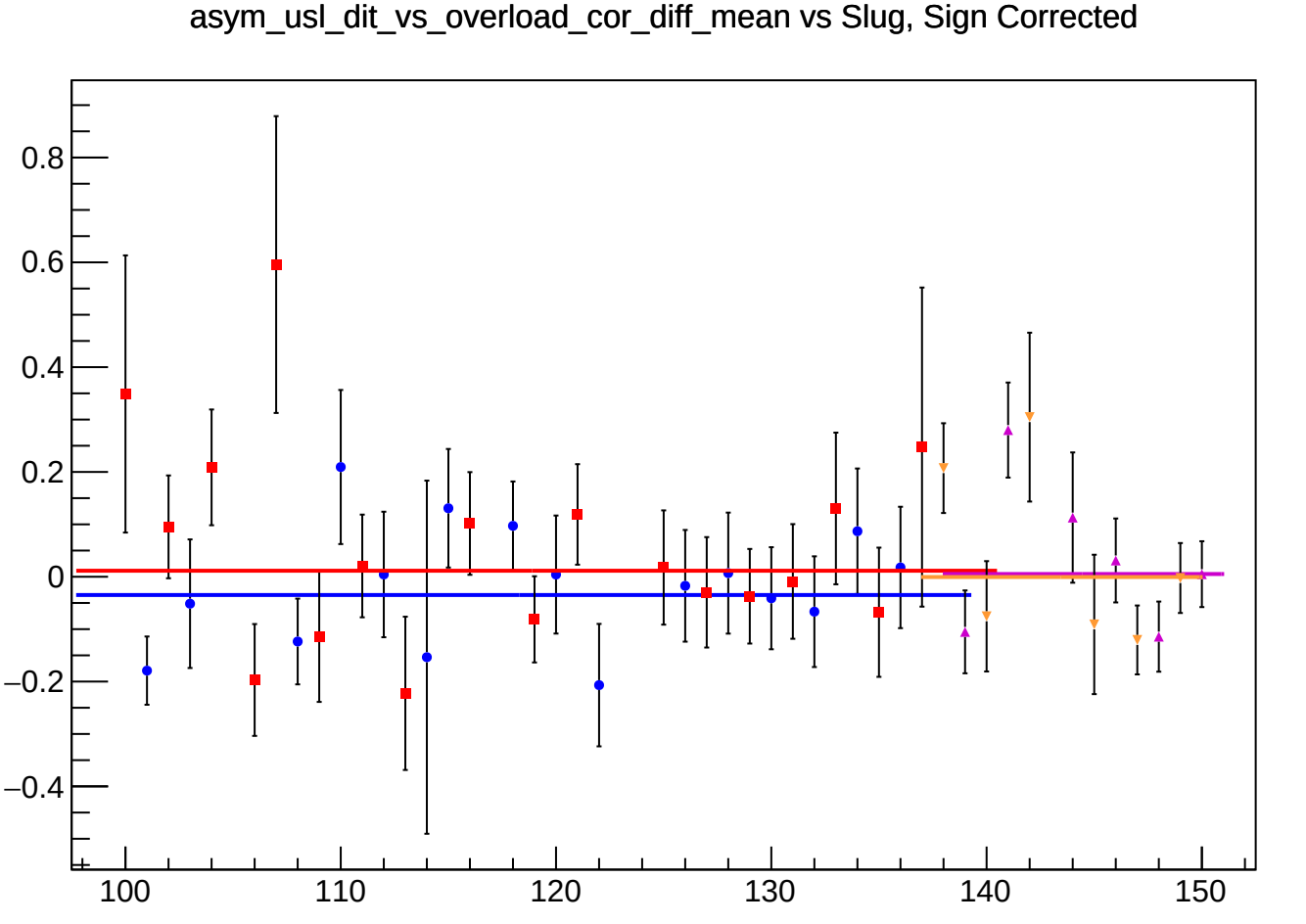
Left: 47.538+/-0.012 $\chi^2$/NDF: 1600070.4/11

Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

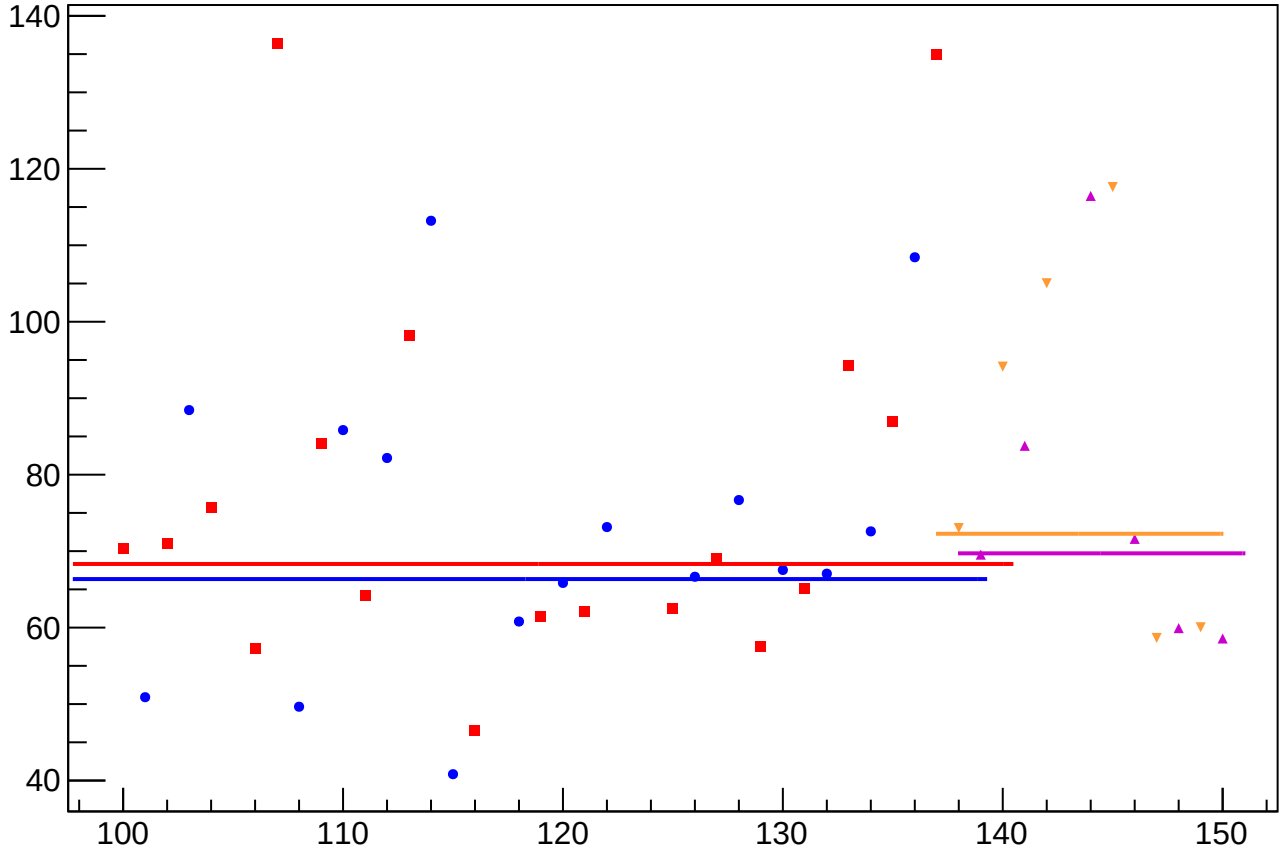
In: 45.478+/-0.010 $\chi^2$/NDF:2017265.8/21

Out: 47.497+/-0.011 $\chi^2$/NDF:2119911.0/23

All: 46.414+/-0.007 $\chi^2$/NDF: 4155612.8/45


asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
110
120
130
140
150
Right In: -0.035+/-0.026 χ²/NDF: 17.4/15
Left Out: -0.001+/-0.036 χ²/NDF:13.8/5
Right Out: 0.012+/-0.027 χ²/NDF: 22.8/17
Left In: 0.005+/-0.032 χ²/NDF:15.2/5
Left: 0.003+/-0.024 χ²/NDF: 29.0/11
Right: -0.012+/-0.019 χ²/NDF: 41.7/33
In: -0.019+/-0.020 χ²/NDF:33.6/21
Out: 0.007+/-0.022 χ²/NDF:36.6/23
All: -0.007+/-0.015 χ²/NDF: 70.9/45

asym_usl_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772653.3/15

Left Out: 72.272+/-0.025 $\chi^2$/NDF:554536.1/5

Right Out: 68.322+/-0.019 $\chi^2$/NDF: 629670.0/17

Left In: 69.712+/-0.023 $\chi^2$/NDF:437642.3/5

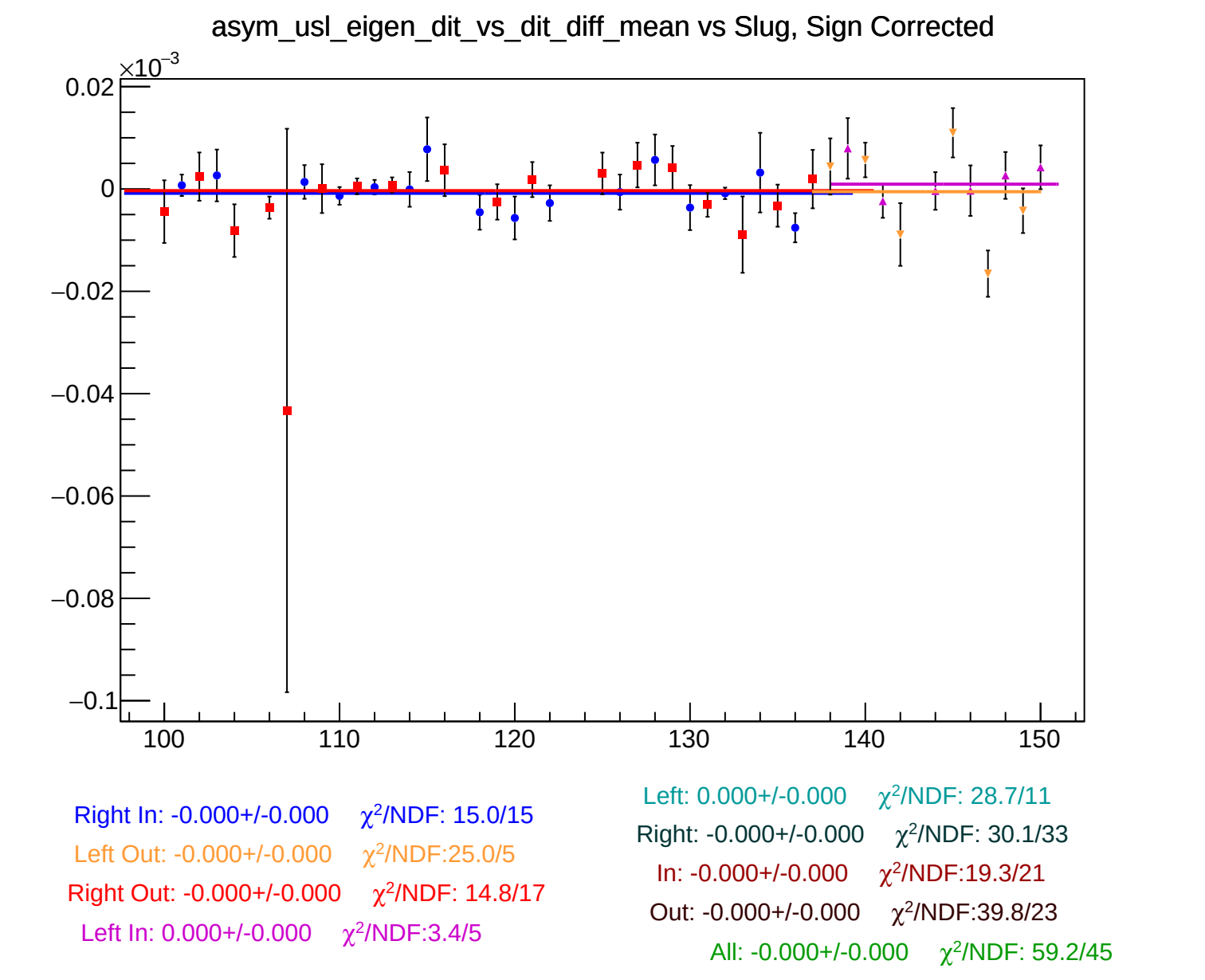
Left: 70.845+/-0.017 $\chi^2$/NDF: 997857.7/11

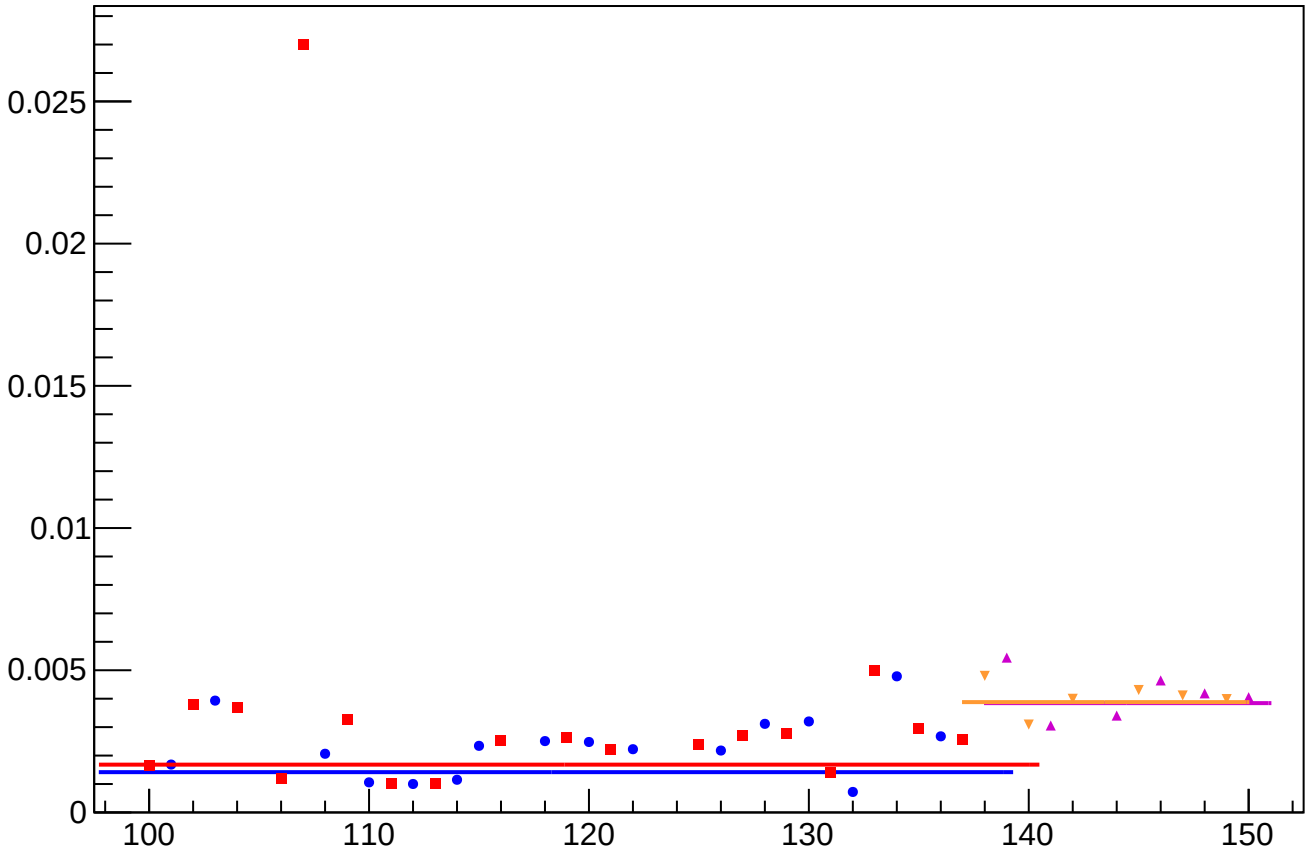
Right: 67.312+/-0.013 $\chi^2$/NDF: 1407833.1/33

In: 67.705+/-0.014 $\chi^2$/NDF:1223513.3/21

Out: 69.744+/-0.015 $\chi^2$/NDF:1199730.3/23

All: 68.665+/-0.010 $\chi^2$/NDF: 2432750.7/45


asym_usl_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 15.0/15
Left Out: -0.000+/-0.000 χ²/NDF:25.0/5
Right Out: -0.000+/-0.000 χ²/NDF: 14.8/17
Left In: 0.000+/-0.000 χ²/NDF:3.4/5
Left: 0.000+/-0.000 χ²/NDF: 28.7/11
Right: -0.000+/-0.000 χ²/NDF: 30.1/33
In: -0.000+/-0.000 χ²/NDF:19.3/21
Out: -0.000+/-0.000 χ²/NDF:39.8/23
All: -0.000+/-0.000 χ²/NDF: 59.2/45




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3547259.2/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:188156.9/5

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3427218.5/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:359225.0/5

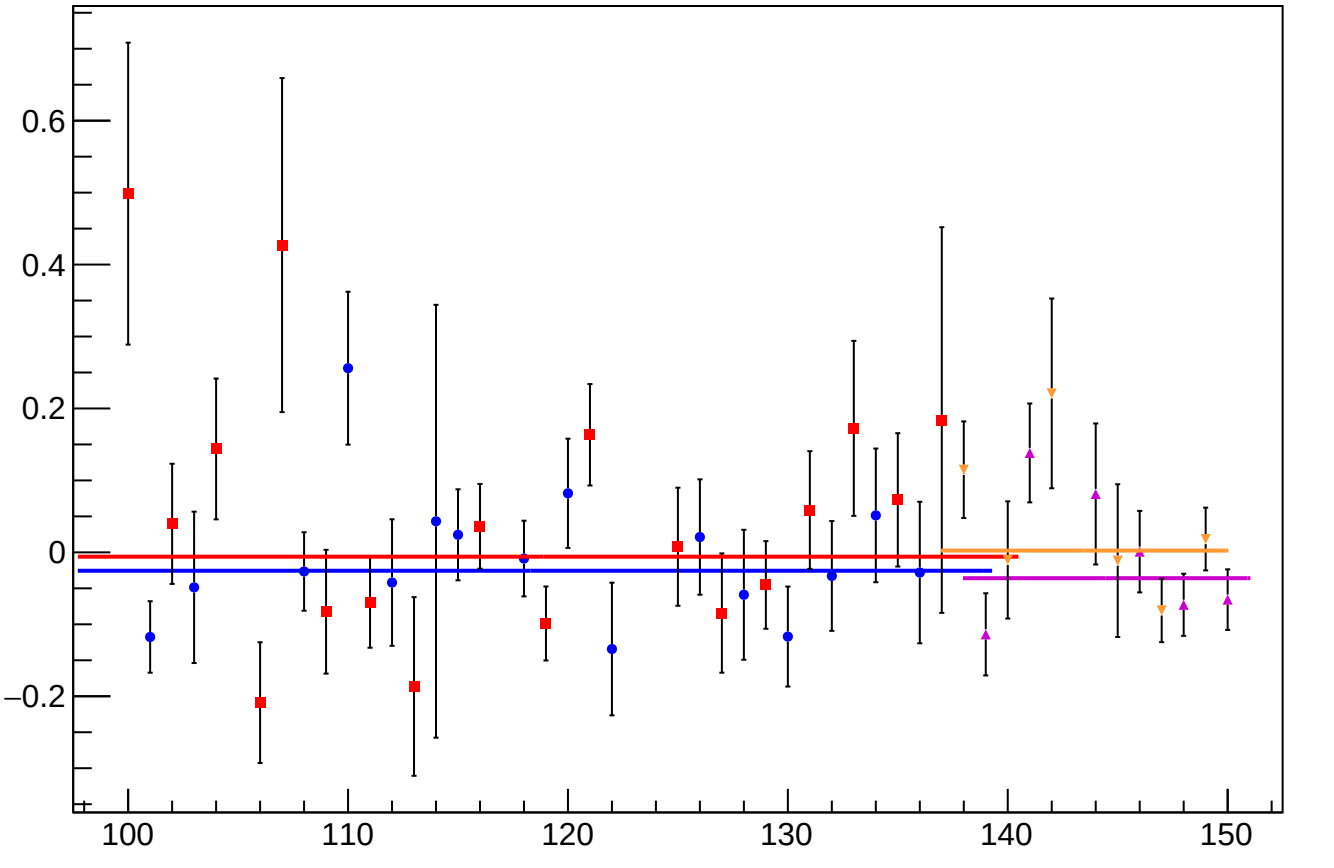
Left: 0.004+/-0.000 $\chi^2$/NDF: 547779.6/11

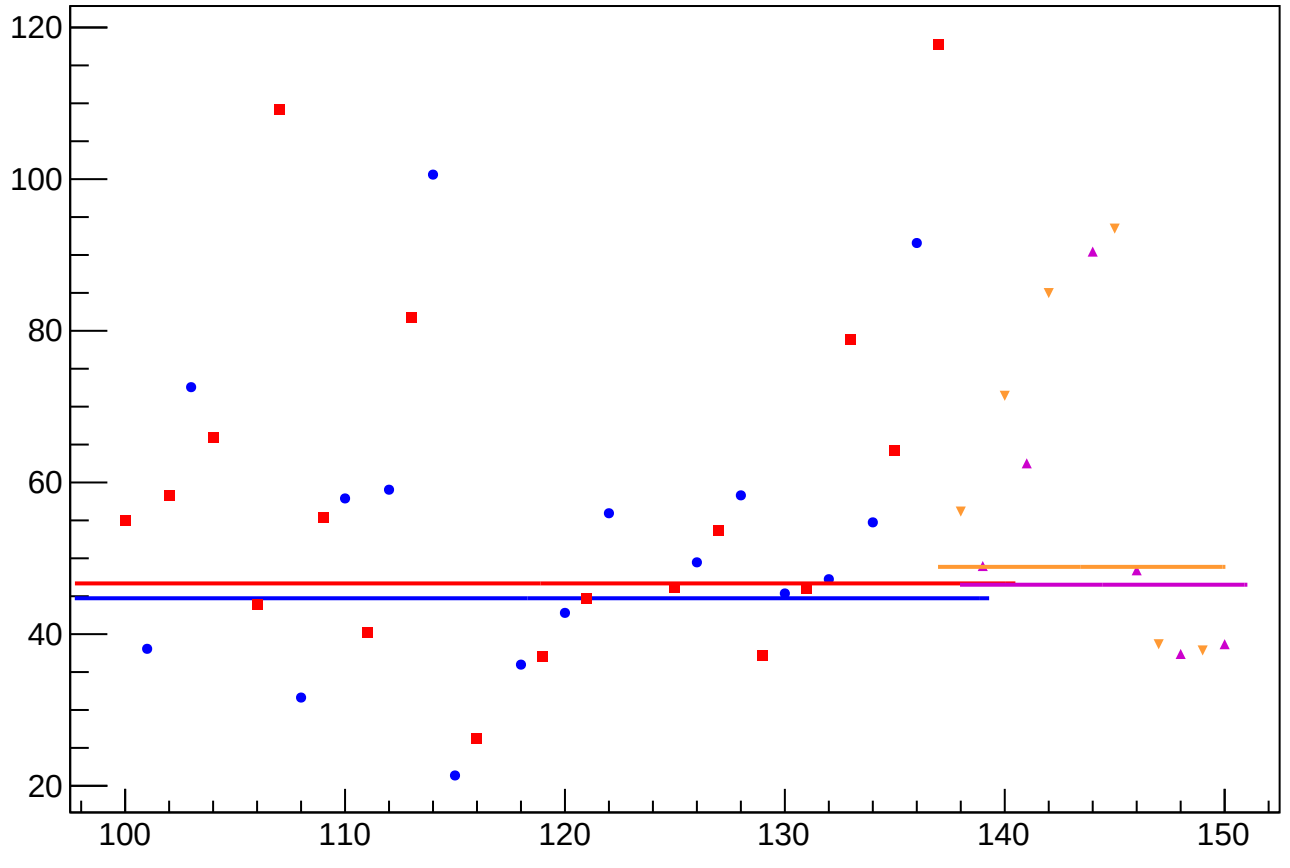
Right: 0.002+/-0.000 $\chi^2$/NDF: 7128830.6/33

In: 0.002+/-0.000 $\chi^2$/NDF:7452026.6/21

Out: 0.002+/-0.000 $\chi^2$/NDF:6061124.9/23

All: 0.002+/-0.000 $\chi^2$/NDF: 13709486.5/45


asym_usl_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
0.6
0.4
0.2
0
−0.2
100
110
120
130
140
150
Right In: -0.026+/-0.019 χ²/NDF: 17.6/15
Left Out: 0.002+/-0.025 χ²/NDF:9.3/5
Right Out: -0.006+/-0.019 χ²/NDF: 36.5/17
Left In: -0.036+/-0.022 χ²/NDF:11.4/5
Left: -0.019+/-0.017 χ²/NDF: 22.0/11
Right: -0.016+/-0.013 χ²/NDF: 54.7/33
In: -0.030+/-0.014 χ²/NDF:29.1/21
Out: -0.003+/-0.015 χ²/NDF:45.9/23
All: -0.017+/-0.010 χ²/NDF: 76.7/45




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 48.872+/-0.018 $\chi^2$/NDF:915030.5/5

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 46.517+/-0.016 $\chi^2$/NDF:675141.0/5

Left: 47.539+/-0.012 $\chi^2$/NDF: 1599959.8/11

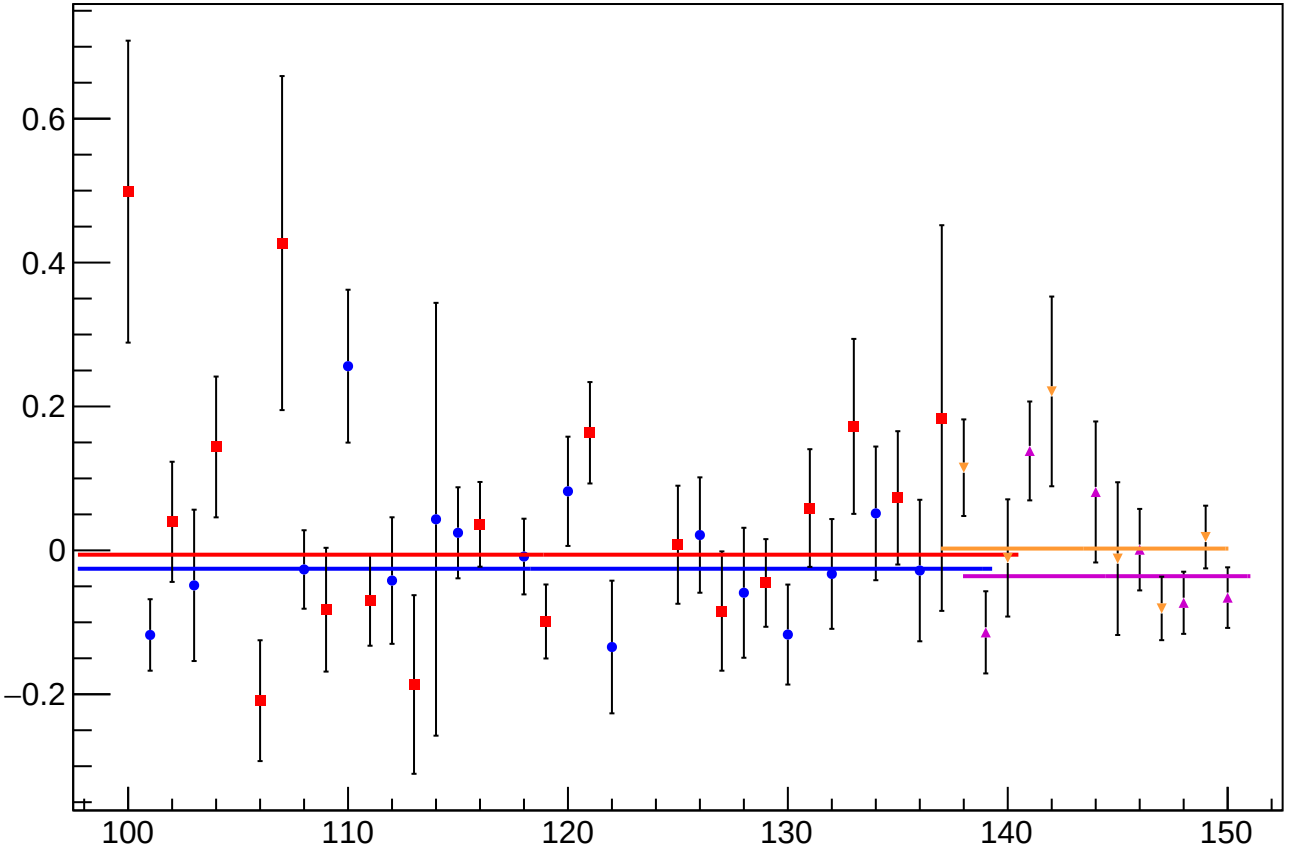
Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 45.477+/-0.010 $\chi^2$/NDF:2017298.6/21

Out: 47.496+/-0.011 $\chi^2$/NDF:2119897.9/23

All: 46.414+/-0.007 $\chi^2$/NDF: 4155632.3/45

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.002+/-0.025 $\chi^2$/NDF:9.3/5

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.036+/-0.022 $\chi^2$/NDF:11.4/5

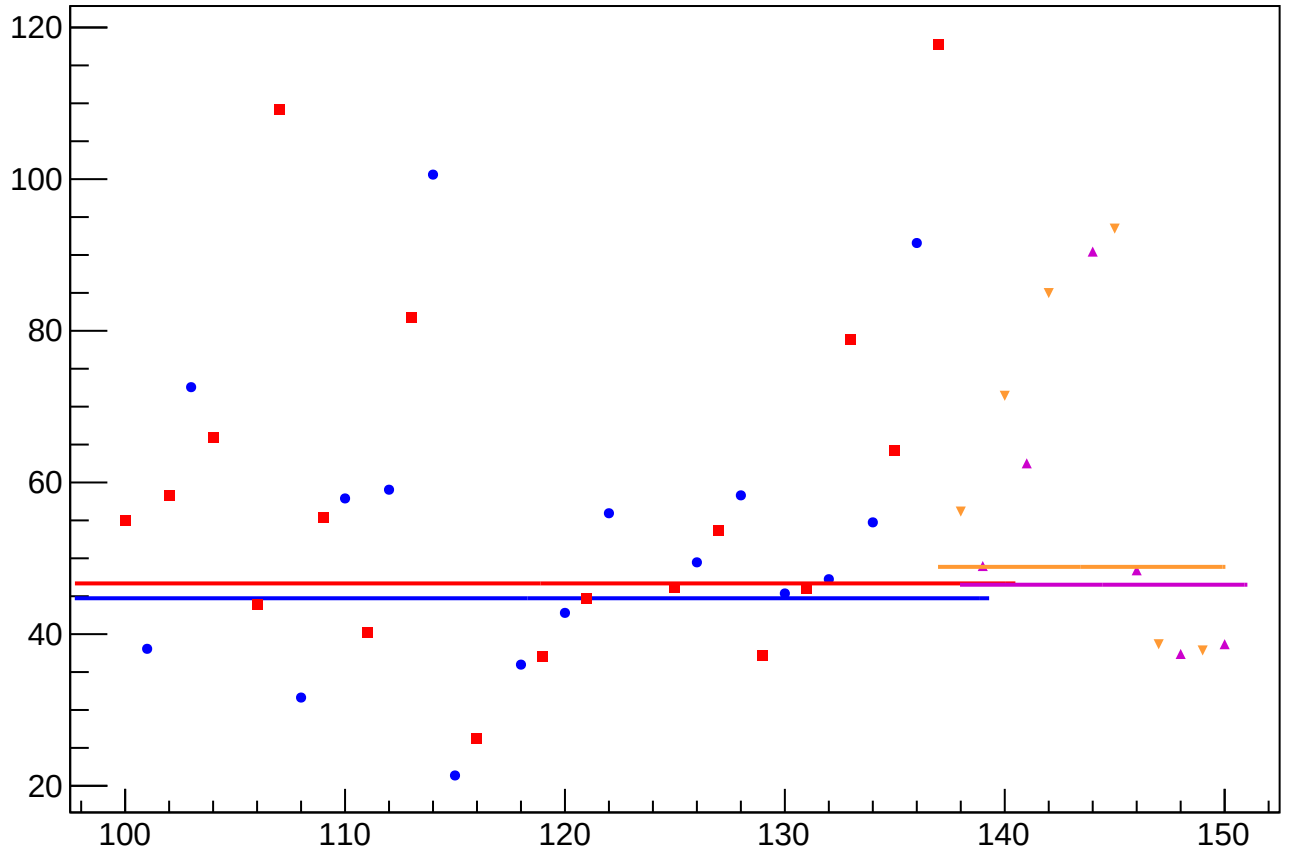
Left: -0.019+/-0.017 $\chi^2$/NDF: 22.0/11

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.030+/-0.014 $\chi^2$/NDF:29.1/21

Out: -0.003+/-0.015 $\chi^2$/NDF:45.9/23

All: -0.017+/-0.010 $\chi^2$/NDF: 76.7/45




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 48.872+/-0.018 $\chi^2$/NDF:915030.5/5

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 46.517+/-0.016 $\chi^2$/NDF:675141.0/5

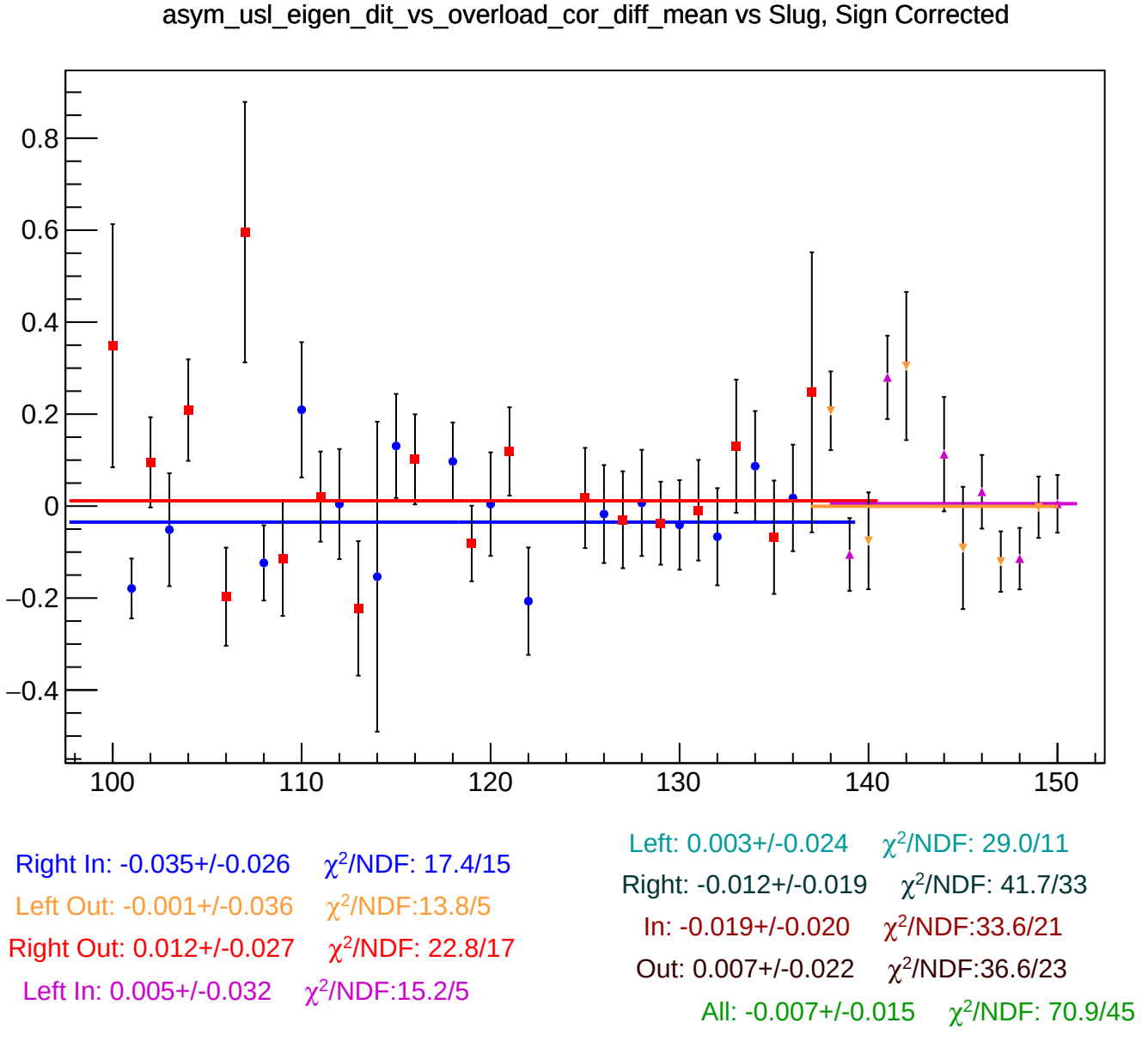
Left: 47.539+/-0.012 $\chi^2$/NDF: 1599959.8/11

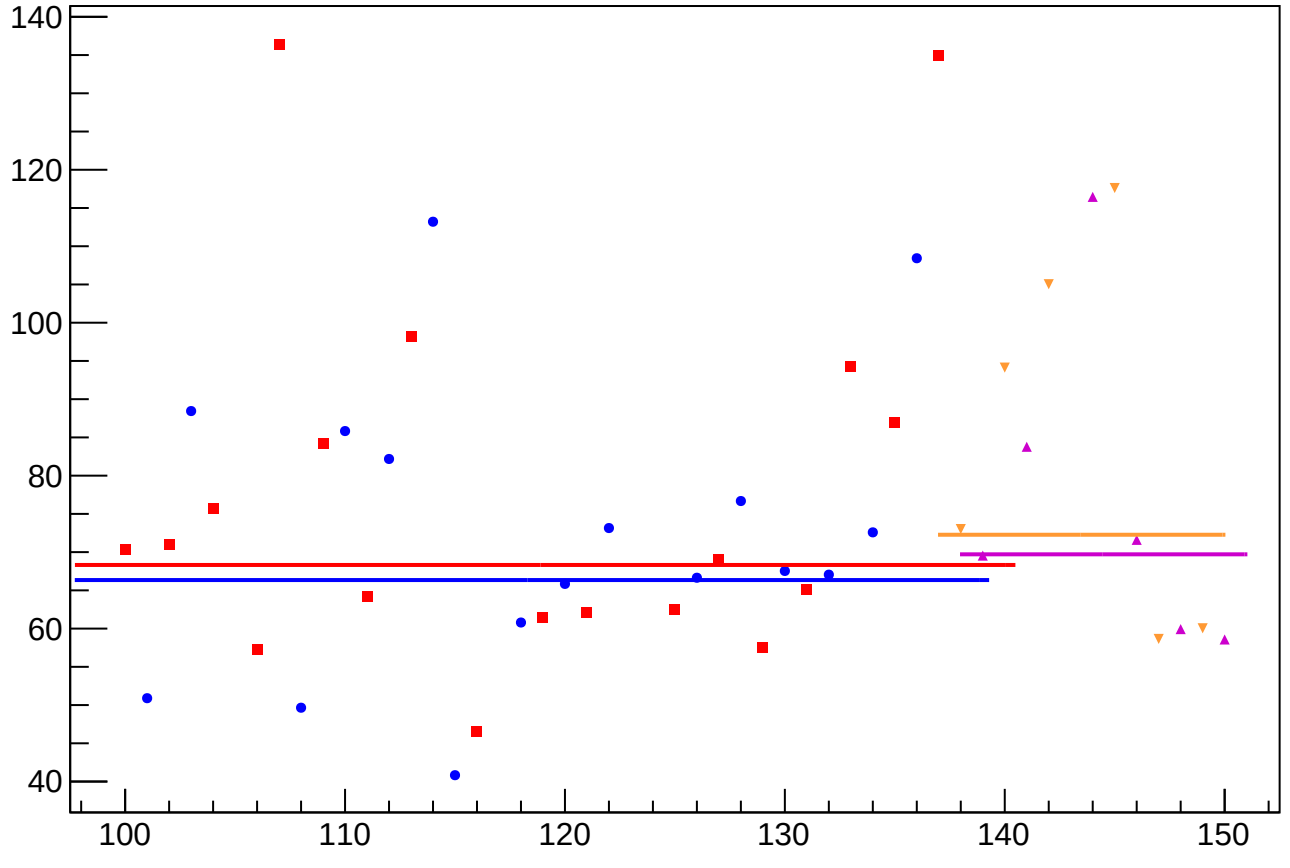
Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 45.477+/-0.010 $\chi^2$/NDF:2017298.6/21

Out: 47.496+/-0.011 $\chi^2$/NDF:2119897.9/23

All: 46.414+/-0.007 $\chi^2$/NDF: 4155632.3/45


asym_usl_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
110
120
130
140
150
Right In: -0.035+/-0.026 χ²/NDF: 17.4/15
Left Out: -0.001+/-0.036 χ²/NDF:13.8/5
Right Out: 0.012+/-0.027 χ²/NDF: 22.8/17
Left In: 0.005+/-0.032 χ²/NDF:15.2/5
Left: 0.003+/-0.024 χ²/NDF: 29.0/11
Right: -0.012+/-0.019 χ²/NDF: 41.7/33
In: -0.019+/-0.020 χ²/NDF:33.6/21
Out: 0.007+/-0.022 χ²/NDF:36.6/23
All: -0.007+/-0.015 χ²/NDF: 70.9/45




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772660.4/15

Left Out: 72.272+/-0.025 $\chi^2$/NDF:554513.6/5

Right Out: 68.321+/-0.019 $\chi^2$/NDF: 629665.7/17

Left In: 69.712+/-0.023 $\chi^2$/NDF:437628.3/5

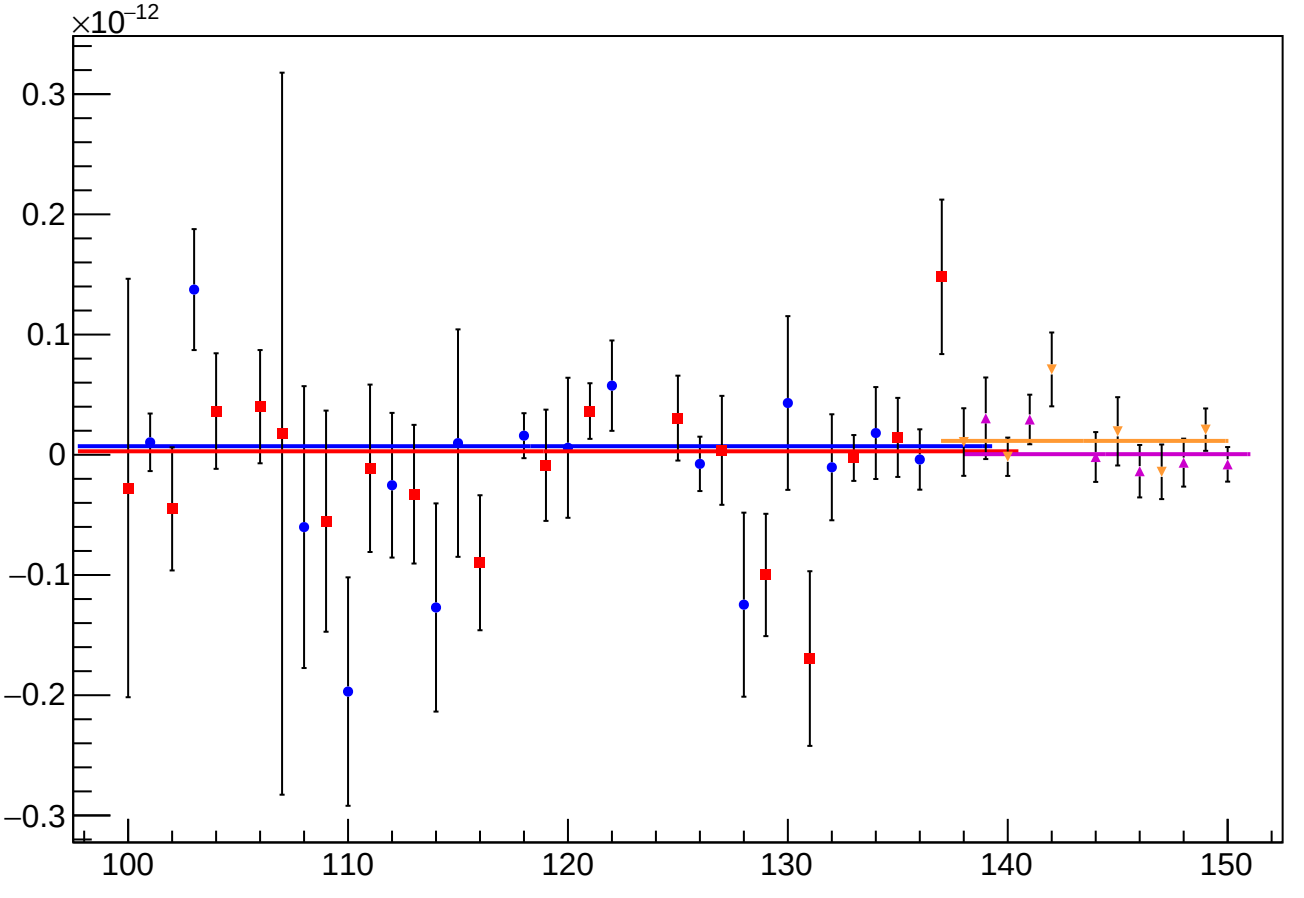
Left: 70.845+/-0.017 $\chi^2$/NDF: 997821.3/11

Right: 67.311+/-0.013 $\chi^2$/NDF: 1407834.9/33

In: 67.704+/-0.014 $\chi^2$/NDF:1223513.5/21

Out: 69.744+/-0.015 $\chi^2$/NDF:1199712.6/23

All: 68.664+/-0.010 $\chi^2$/NDF: 2432731.8/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.6/5

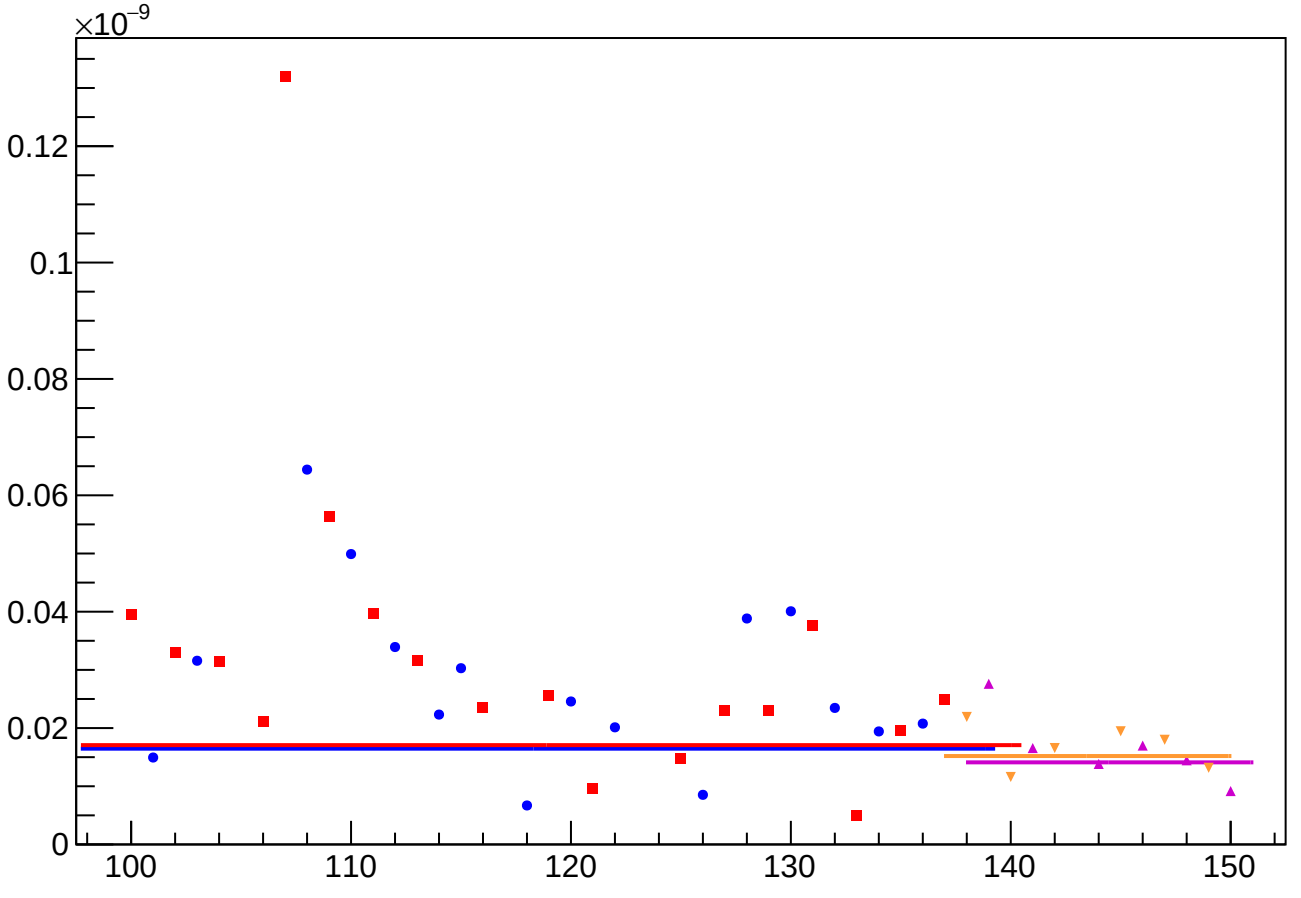
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.5/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 43.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 54.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2345888.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:321441.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2791354.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:616365.7/5

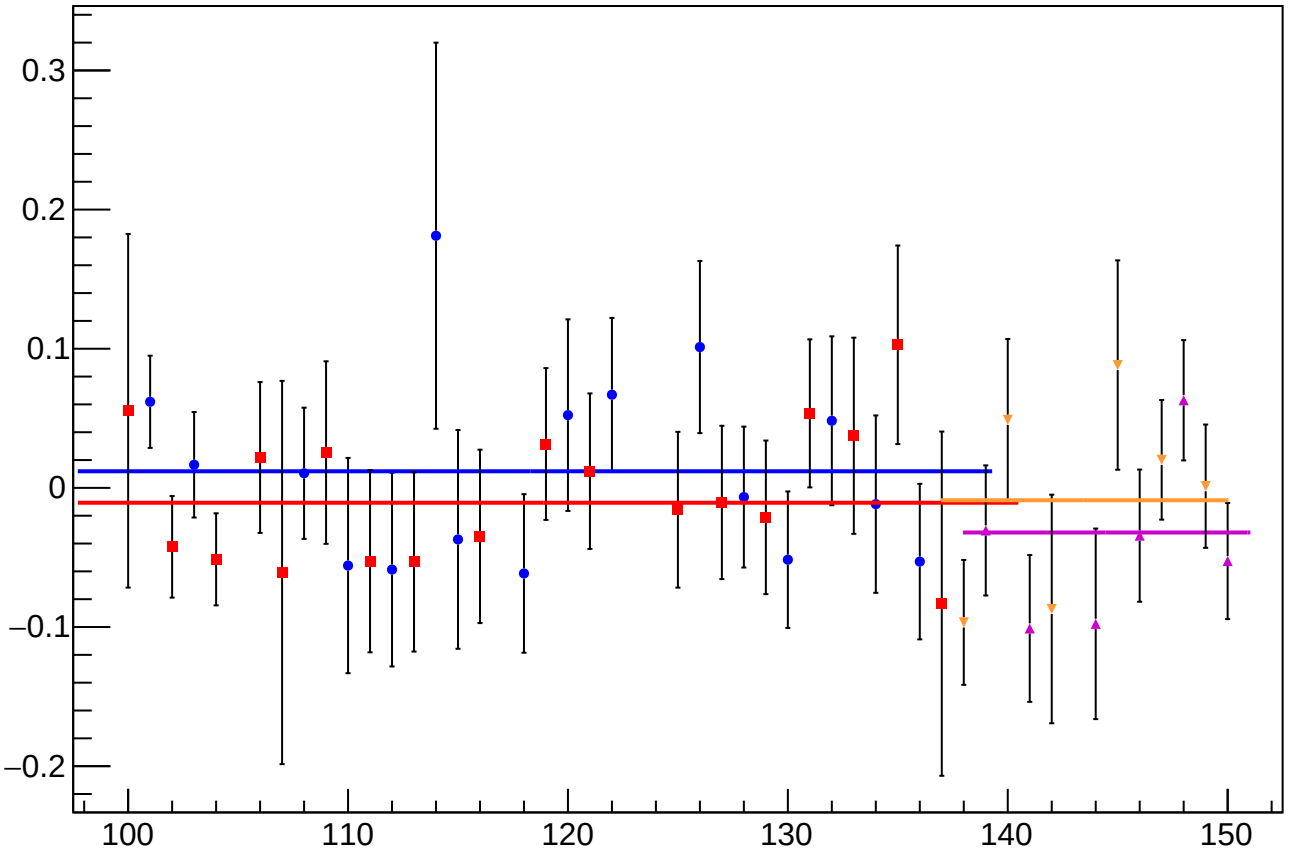
Left: 0.000+/-0.000 $\chi^2$/NDF: 954001.4/11

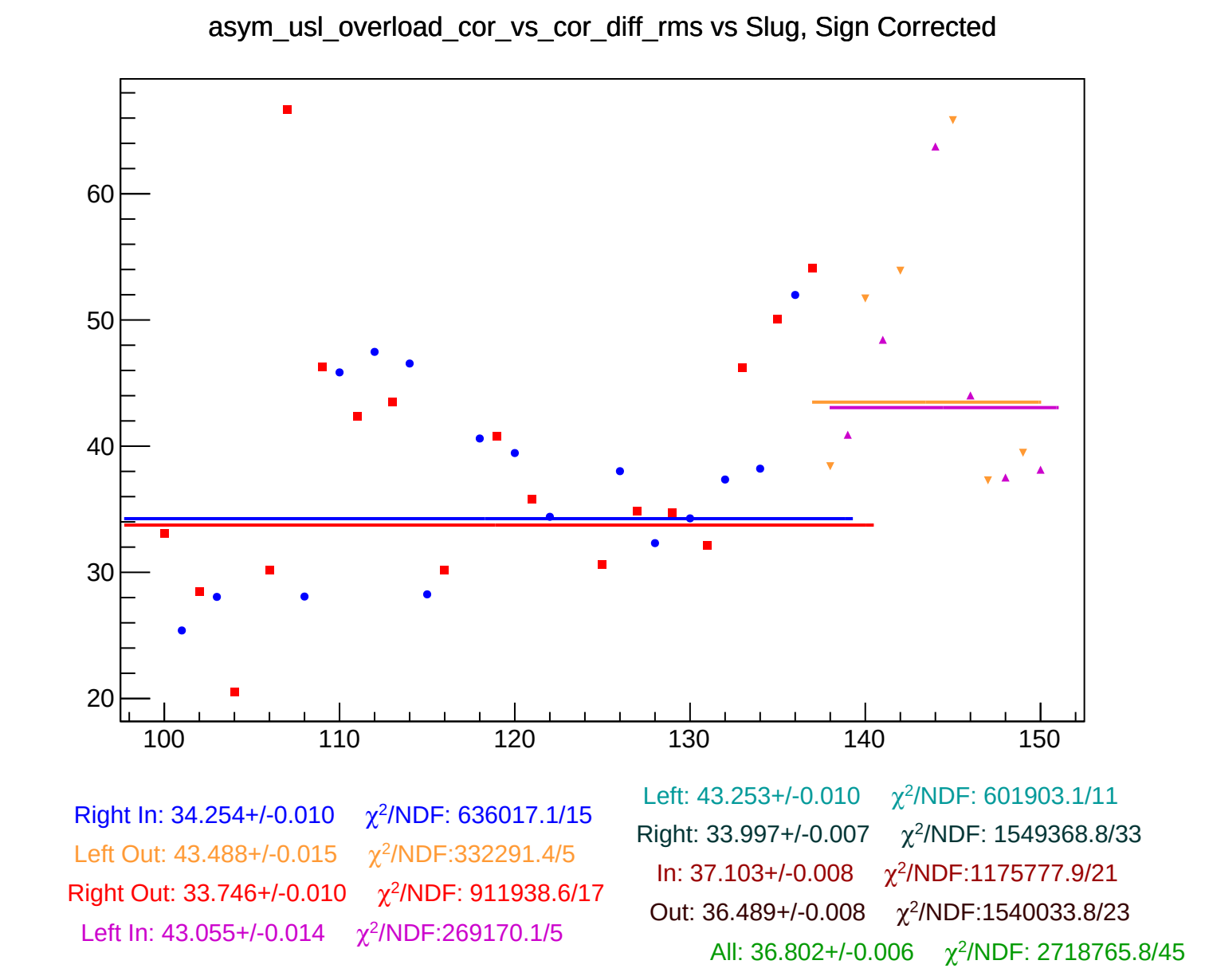
Right: 0.000+/-0.000 $\chi^2$/NDF: 5141308.5/33

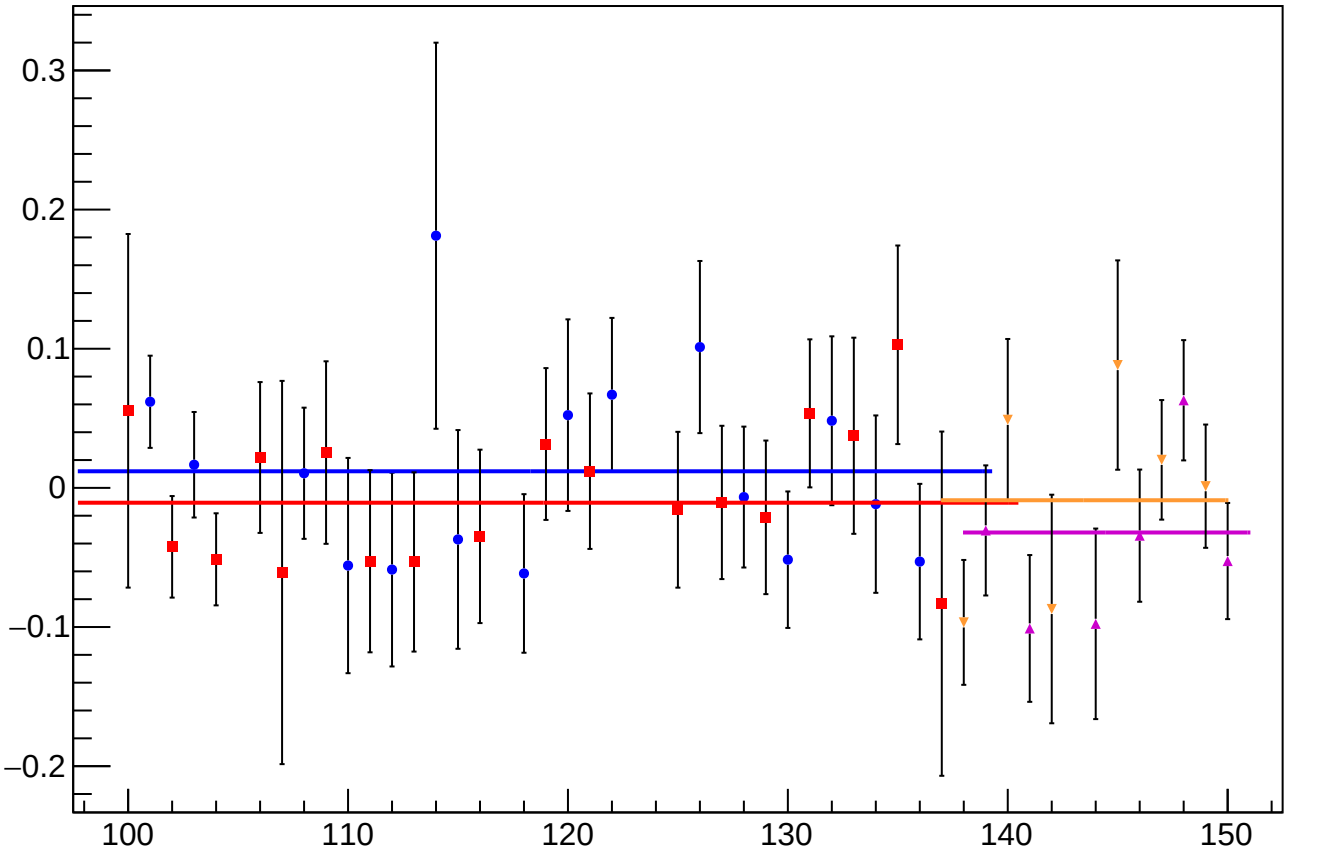
In: 0.000+/-0.000 $\chi^2$/NDF:3035424.9/21

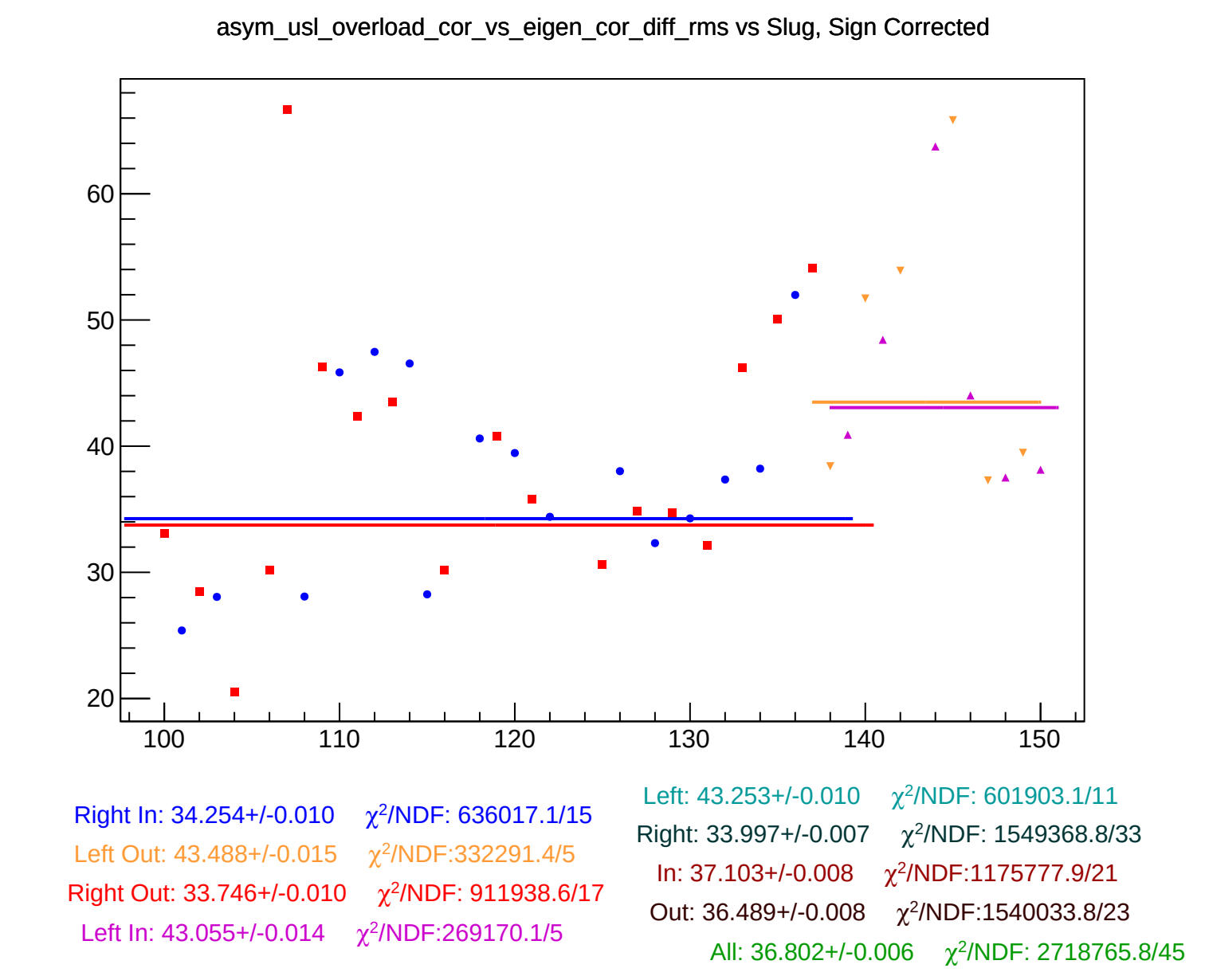
Out: 0.000+/-0.000 $\chi^2$/NDF:3152811.9/23

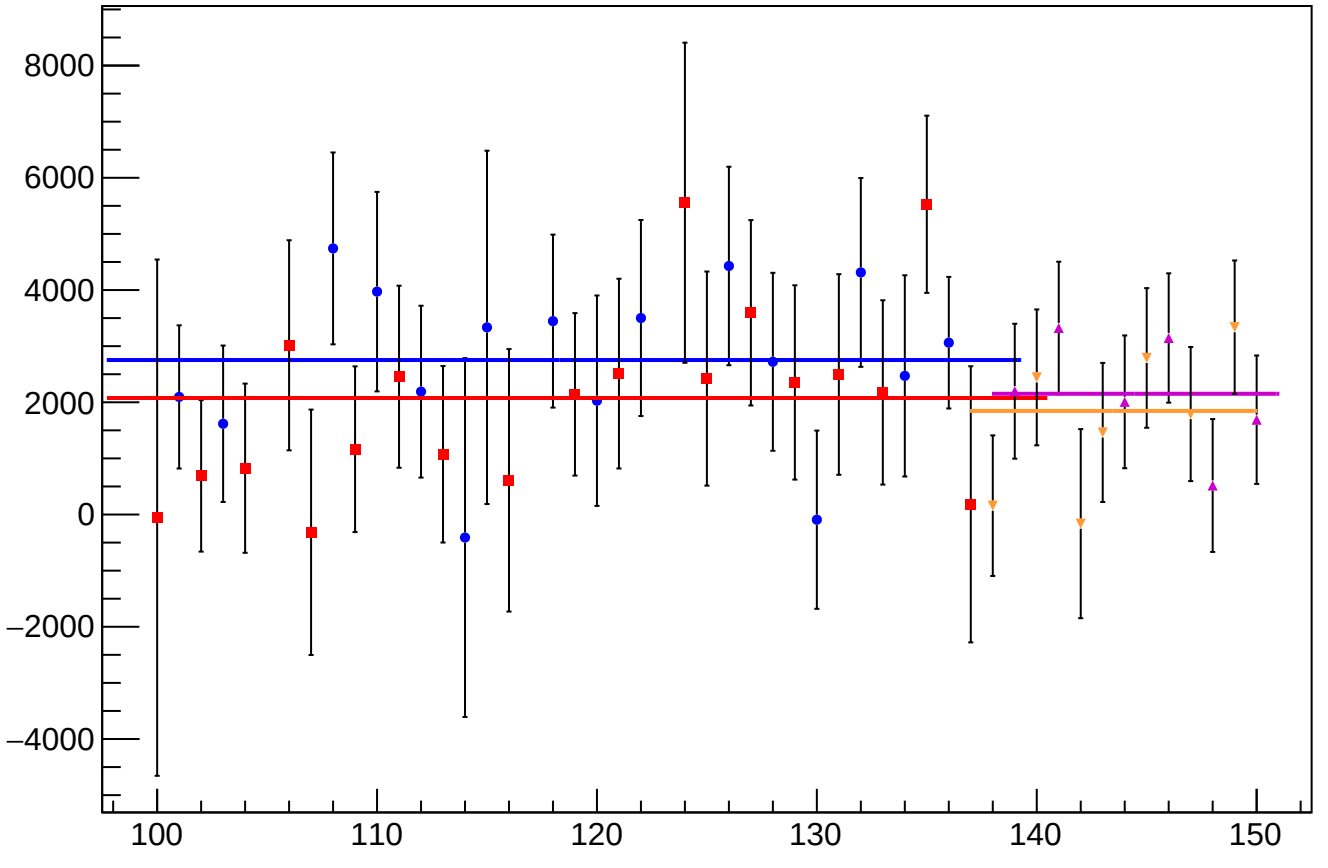
All: 0.000+/-0.000 $\chi^2$/NDF: 6207999.2/45


asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected
0.3
0.2
0.1
0
−0.1
−0.2
100
110
120
130
140
150
Right In: 0.012+/-0.014 χ²/NDF: 14.7/15
Left Out: -0.009+/-0.021 χ²/NDF:7.9/5
Right Out: -0.011+/-0.013 χ²/NDF: 9.9/17
Left In: -0.032+/-0.020 χ²/NDF:7.7/5
Left: -0.021+/-0.015 χ²/NDF: 16.2/11
Right: 0.000+/-0.010 χ²/NDF: 26.0/33
In: -0.002+/-0.011 χ²/NDF:25.8/21
Out: -0.010+/-0.011 χ²/NDF:17.8/23
All: -0.006+/-0.008 χ²/NDF: 43.9/45


asym_usl_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected
60
50
40
30
20
100
110
120
130
140
150
Right In: 34.254+/-0.010 χ²/NDF: 636017.1/15
Left Out: 43.488+/-0.015 χ²/NDF:332291.4/5
Right Out: 33.746+/-0.010 χ²/NDF: 911938.6/17
Left In: 43.055+/-0.014 χ²/NDF:269170.1/5
Left: 43.253+/-0.010 χ²/NDF: 601903.1/11
Right: 33.997+/-0.007 χ²/NDF: 1549368.8/33
In: 37.103+/-0.008 χ²/NDF:1175777.9/21
Out: 36.489+/-0.008 χ²/NDF:1540033.8/23
All: 36.802+/-0.006 χ²/NDF: 2718765.8/45


asym_usl_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.3
0.2
0.1
0
−0.1
−0.2
100
110
120
130
140
150
Right In: 0.012+/-0.014 χ²/NDF: 14.7/15
Left Out: -0.009+/-0.021 χ²/NDF:7.9/5
Right Out: -0.011+/-0.013 χ²/NDF: 9.9/17
Left In: -0.032+/-0.020 χ²/NDF:7.7/5
Left: -0.021+/-0.015 χ²/NDF: 16.2/11
Right: 0.000+/-0.010 χ²/NDF: 26.0/33
In: -0.002+/-0.011 χ²/NDF:25.8/21
Out: -0.010+/-0.011 χ²/NDF:17.8/23
All: -0.006+/-0.008 χ²/NDF: 43.9/45


asym_usl_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
60
50
40
30
20
100
110
120
130
140
150
Right In: 34.254+/-0.010 χ²/NDF: 636017.1/15
Left Out: 43.488+/-0.015 χ²/NDF:332291.4/5
Right Out: 33.746+/-0.010 χ²/NDF: 911938.6/17
Left In: 43.055+/-0.014 χ²/NDF:269170.1/5
Left: 43.253+/-0.010 χ²/NDF: 601903.1/11
Right: 33.997+/-0.007 χ²/NDF: 1549368.8/33
In: 37.103+/-0.008 χ²/NDF:1175777.9/21
Out: 36.489+/-0.008 χ²/NDF:1540033.8/23
All: 36.802+/-0.006 χ²/NDF: 2718765.8/45




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1846.204+/-477.951 $\chi^2$/NDF:5.7/6

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2151.600+/-479.188 $\chi^2$/NDF:3.8/5

Left: 1998.507+/-338.399 $\chi^2$/NDF: 9.8/12

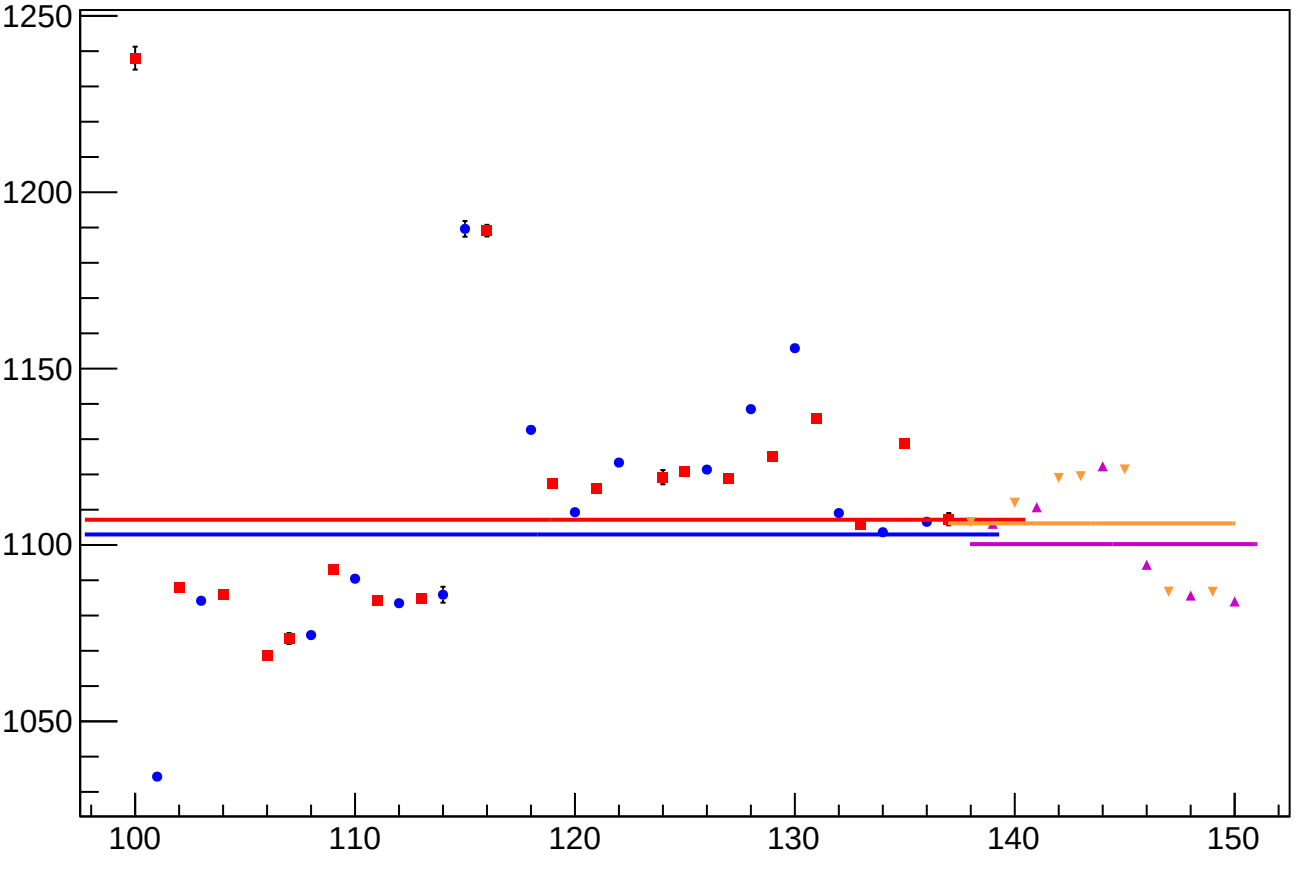
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2499.001+/-311.459 $\chi^2$/NDF:14.2/21

Out: 1980.567+/-308.451 $\chi^2$/NDF:18.4/25

All: 2237.268+/-219.163 $\chi^2$/NDF: 34.0/47

# reg_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1106.127+/-0.338 $\chi^2$/NDF:1754.6/6

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1100.253+/-0.339 $\chi^2$/NDF:1658.0/5

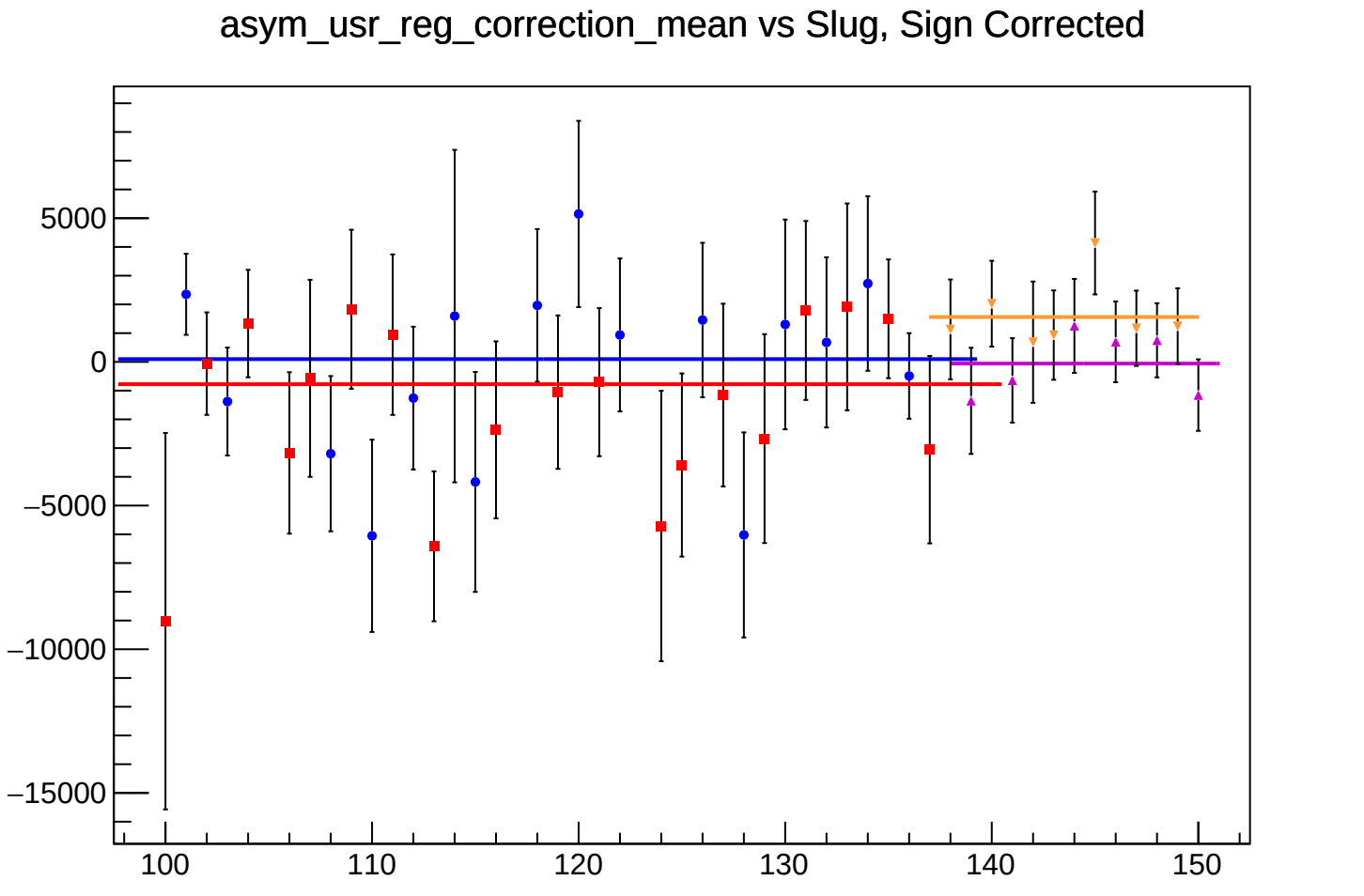
Left: 1103.197+/-0.239 $\chi^2$/NDF: 3563.3/12

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

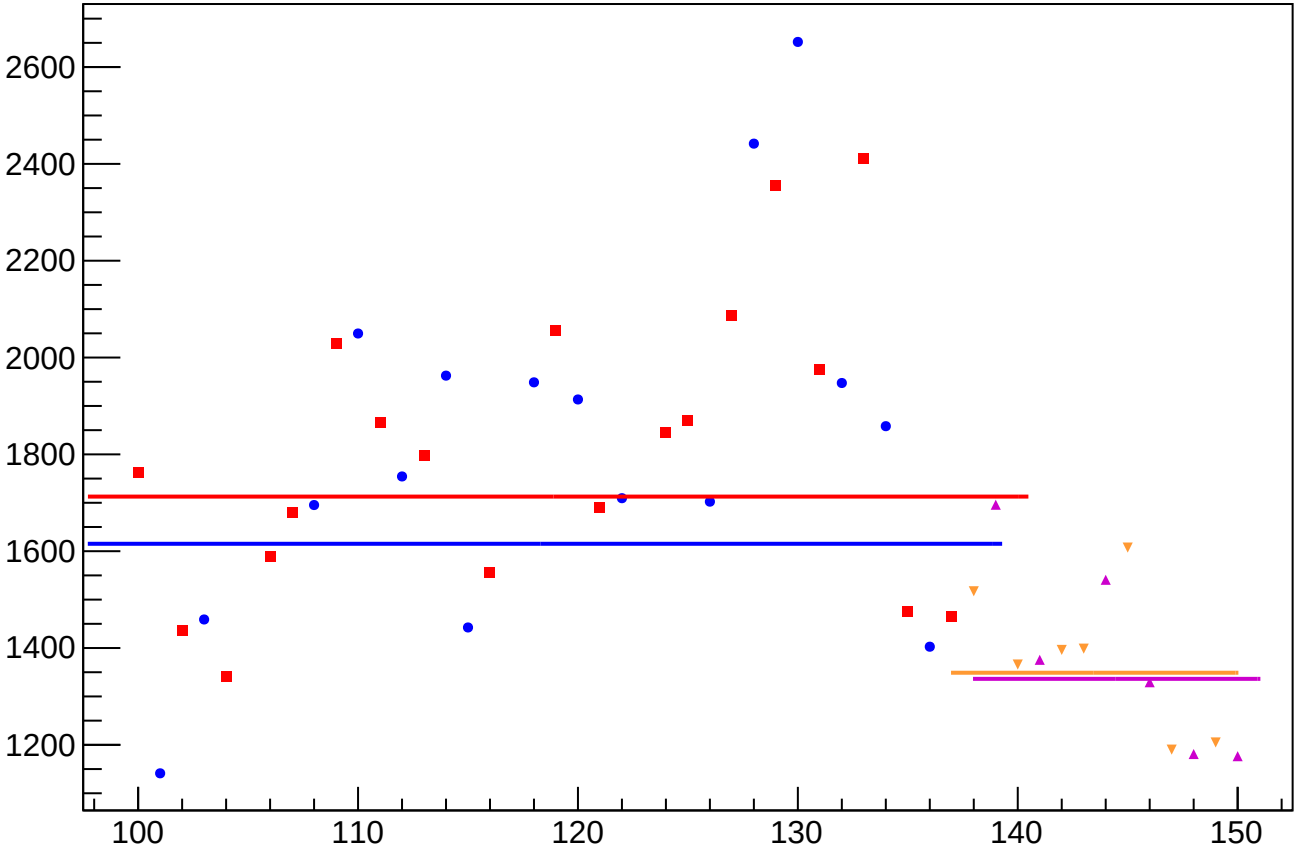
In: 1101.832+/-0.220 $\chi^2$/NDF:14919.4/21

Out: 1106.729+/-0.218 $\chi^2$/NDF:10443.4/25

All: 1104.304+/-0.155 $\chi^2$/NDF: 25612.4/47


asym_usr_reg_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 95.955+/-618.095 χ²/NDF: 16.9/15
Left Out: 1561.199+/-588.514 χ²/NDF:2.7/6
Right Out: -776.996+/-636.966 χ²/NDF: 15.1/18
Left In: -58.904+/-588.771 χ²/NDF:2.8/5
Left: 751.500+/-416.233 χ²/NDF: 9.3/12
Right: -327.398+/-443.581 χ²/NDF: 33.0/34
In: 14.765+/-426.314 χ²/NDF:19.7/21
Out: 484.403+/-432.258 χ²/NDF:25.1/25
All: 246.333+/-303.529 χ²/NDF: 45.4/47

# asym_usr_reg_correction_rms vs Slug, Sign Corrected




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1348.970+/-0.416 $\chi^2$/NDF:117038.4/6

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1336.320+/-0.416 $\chi^2$/NDF:170670.8/5

Left: 1342.648+/-0.294 $\chi^2$/NDF: 288171.0/12

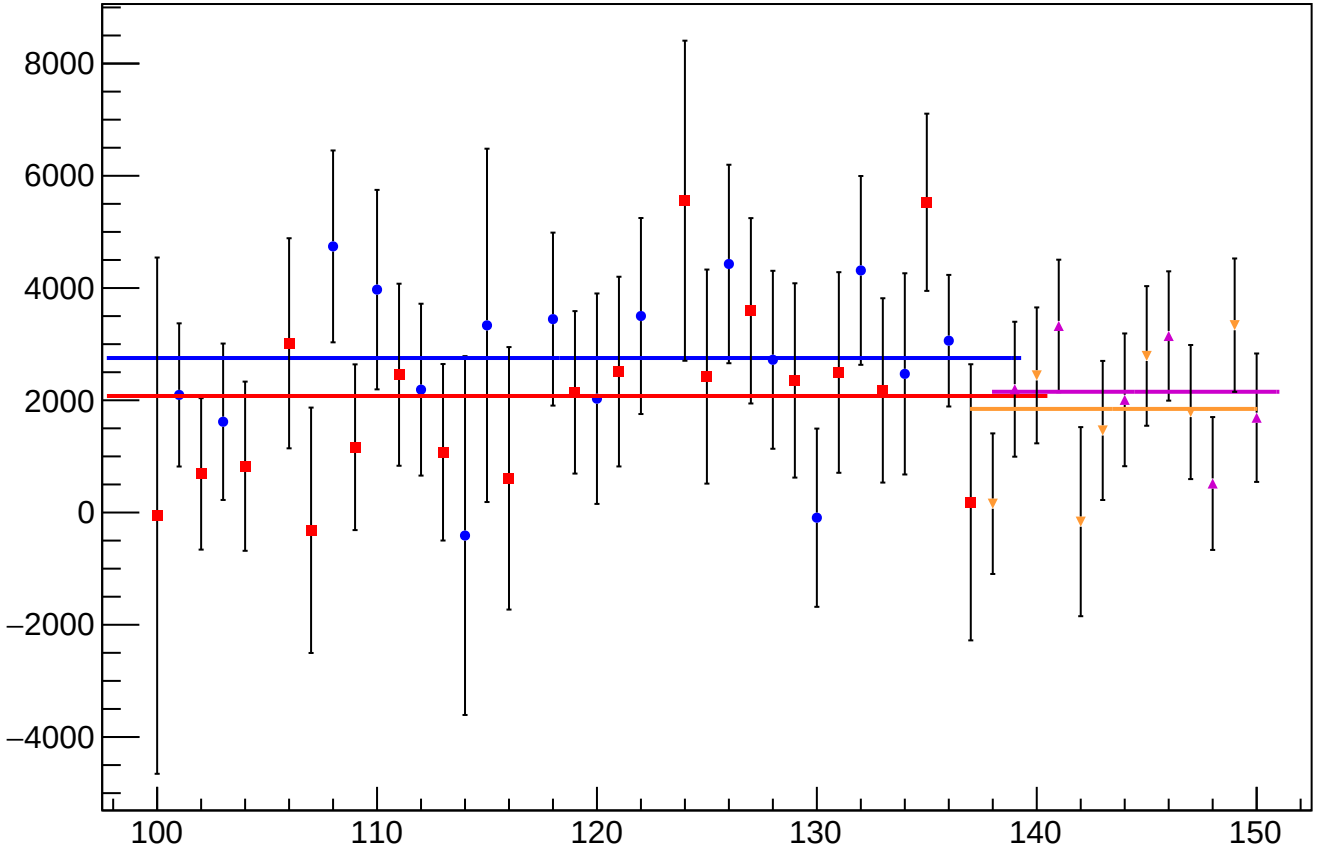
Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1469.043+/-0.301 $\chi^2$/NDF:1077939.0/21

Out: 1516.522+/-0.306 $\chi^2$/NDF:897118.7/25

All: 1492.454+/-0.215 $\chi^2$/NDF: 1987289.4/47

# cor_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1846.204+/-477.951 $\chi^2$/NDF:5.7/6

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2151.600+/-479.188 $\chi^2$/NDF:3.8/5

Left: 1998.507+/-338.399 $\chi^2$/NDF: 9.8/12

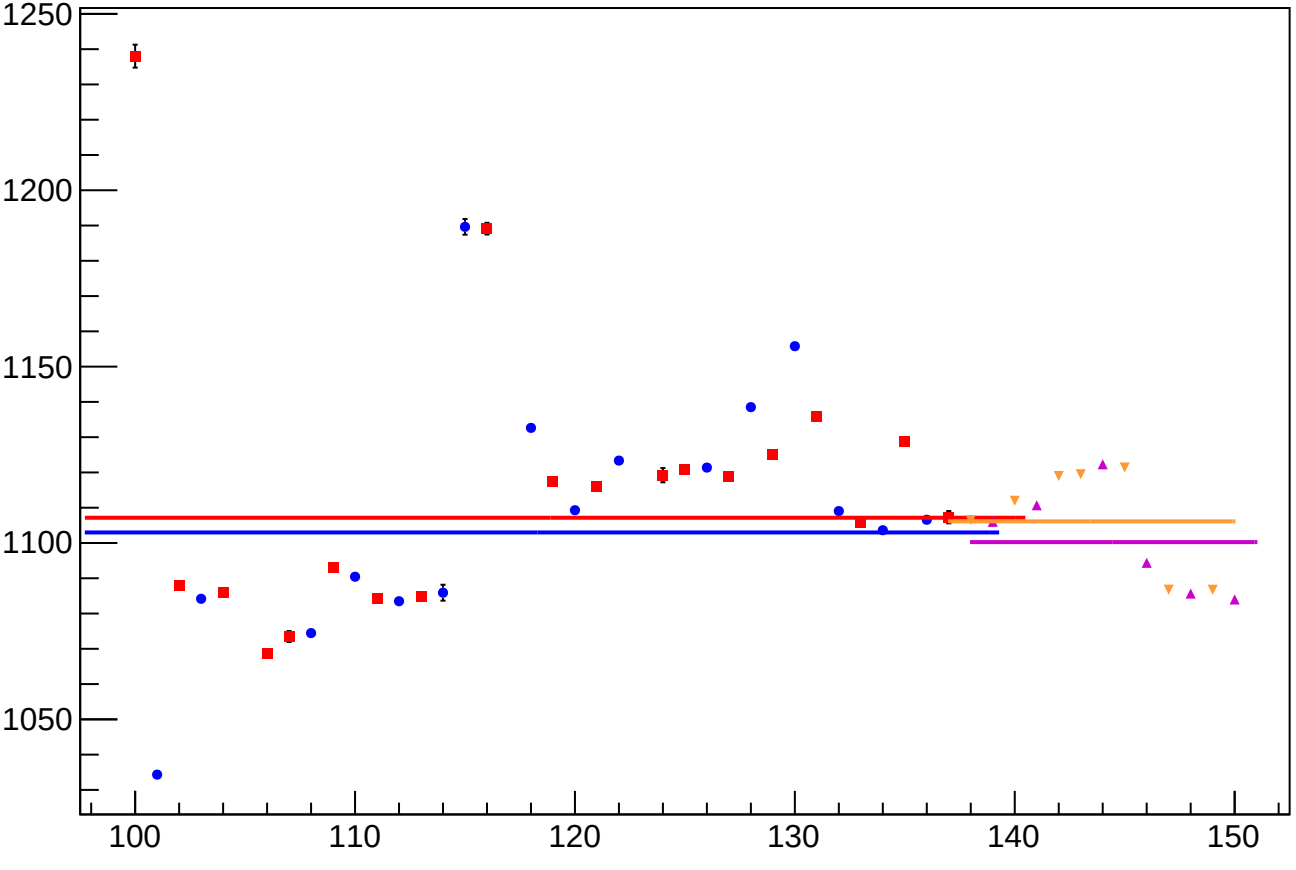
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2499.001+/-311.459 $\chi^2$/NDF:14.2/21

Out: 1980.567+/-308.451 $\chi^2$/NDF:18.4/25

All: 2237.268+/-219.163 $\chi^2$/NDF: 34.0/47

# cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1106.127+/-0.338 $\chi^2$/NDF:1754.6/6

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1100.253+/-0.339 $\chi^2$/NDF:1658.0/5

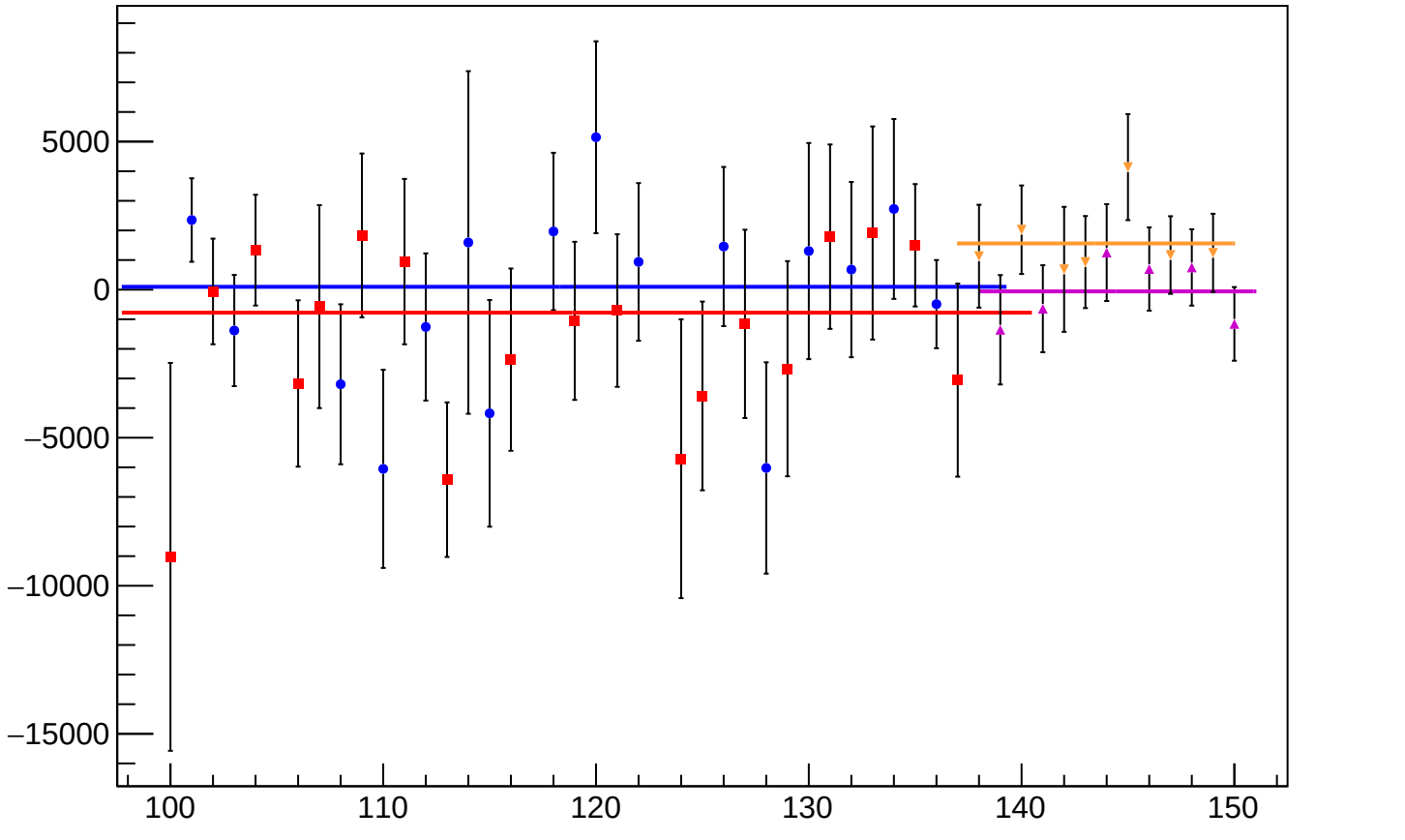
Left: 1103.197+/-0.239 $\chi^2$/NDF: 3563.3/12

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1101.832+/-0.220 $\chi^2$/NDF:14919.4/21

Out: 1106.729+/-0.218 $\chi^2$/NDF:10443.4/25

All: 1104.304+/-0.155 $\chi^2$/NDF: 25612.4/47




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 1561.199+/-588.514 $\chi^2$/NDF:2.7/6

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -58.904+/-588.771 $\chi^2$/NDF:2.8/5

Left: 751.500+/-416.233 $\chi^2$/NDF: 9.3/12

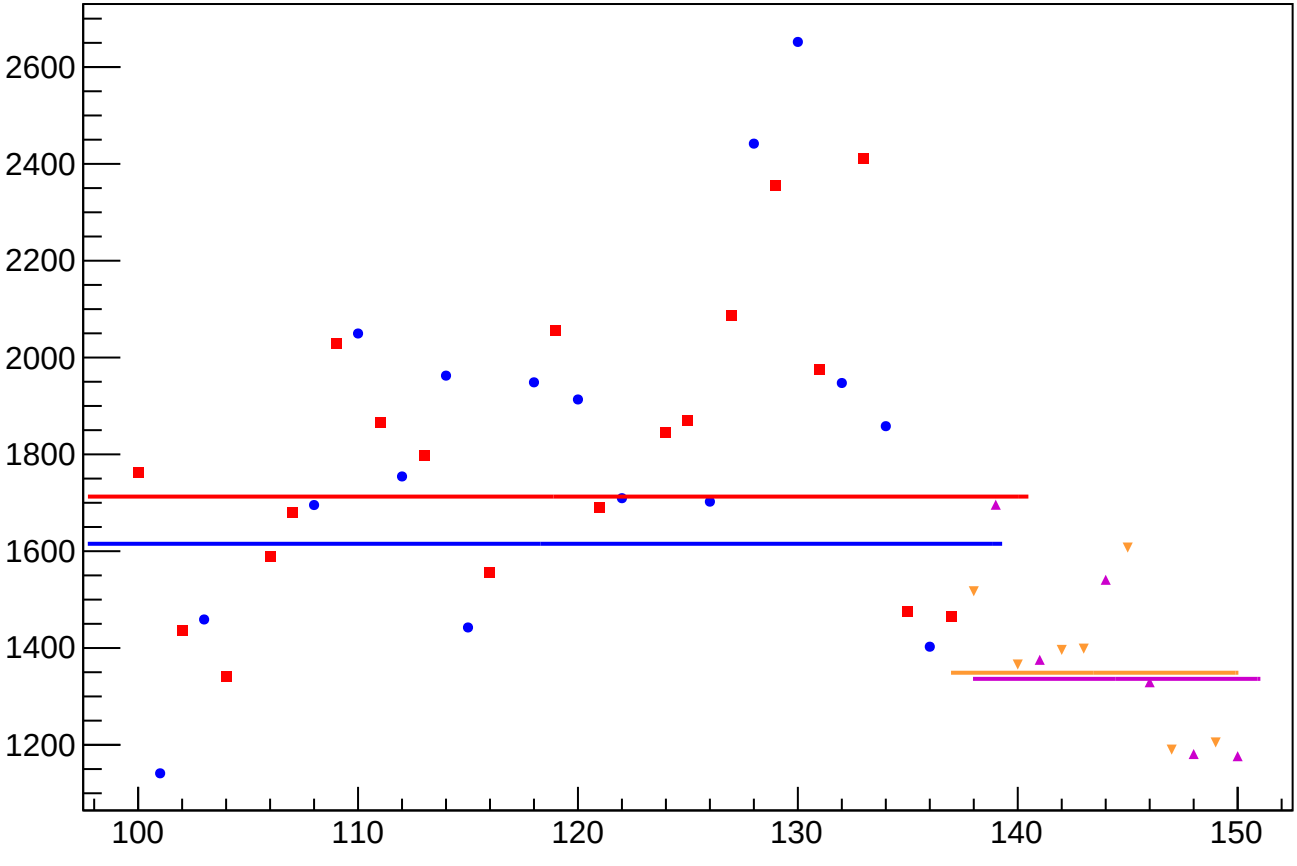
Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: 14.765+/-426.314 $\chi^2$/NDF:19.7/21

Out: 484.403+/-432.258 $\chi^2$/NDF:25.1/25

All: 246.333+/-303.529 $\chi^2$/NDF: 45.4/47

# asym_usr_cor_correction_rms vs Slug, Sign Corrected




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1348.970+/-0.416 $\chi^2$/NDF:117038.4/6

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1336.320+/-0.416 $\chi^2$/NDF:170670.8/5

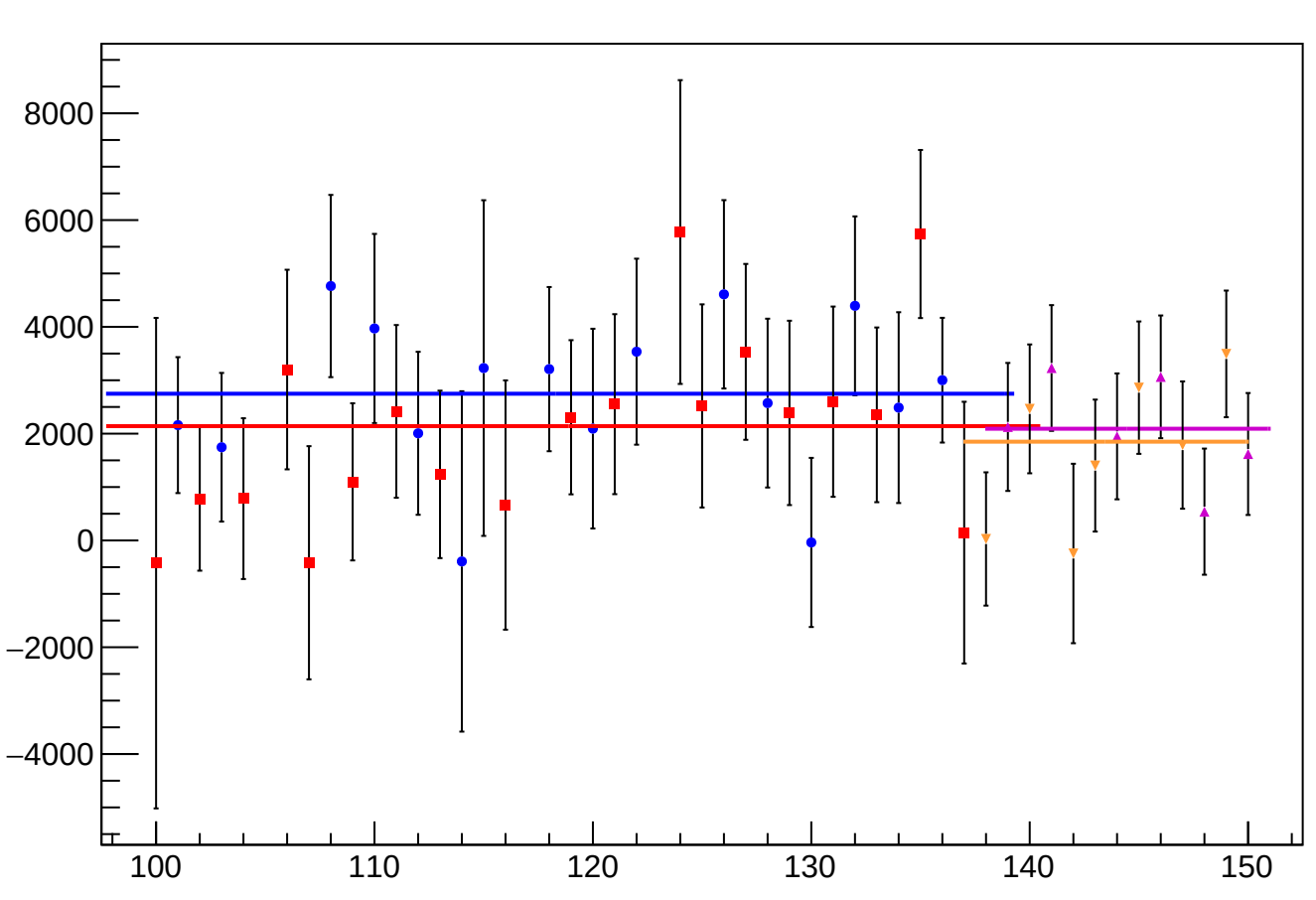
Left: 1342.648+/-0.294 $\chi^2$/NDF: 288171.0/12

Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1469.043+/-0.301 $\chi^2$/NDF:1077939.0/21

Out: 1516.522+/-0.306 $\chi^2$/NDF:897118.7/25

All: 1492.454+/-0.215 $\chi^2$/NDF: 1987289.4/47




Right In: 2747.939+/-408.759 $\chi^2$/NDF: 9.5/15

Left Out: 1849.756+/-476.593 $\chi^2$/NDF:6.7/6

Right Out: 2141.169+/-402.789 $\chi^2$/NDF: 13.6/18

Left In: 2092.261+/-477.988 $\chi^2$/NDF:3.6/5

Left: 1970.655+/-337.494 $\chi^2$/NDF: 10.4/12

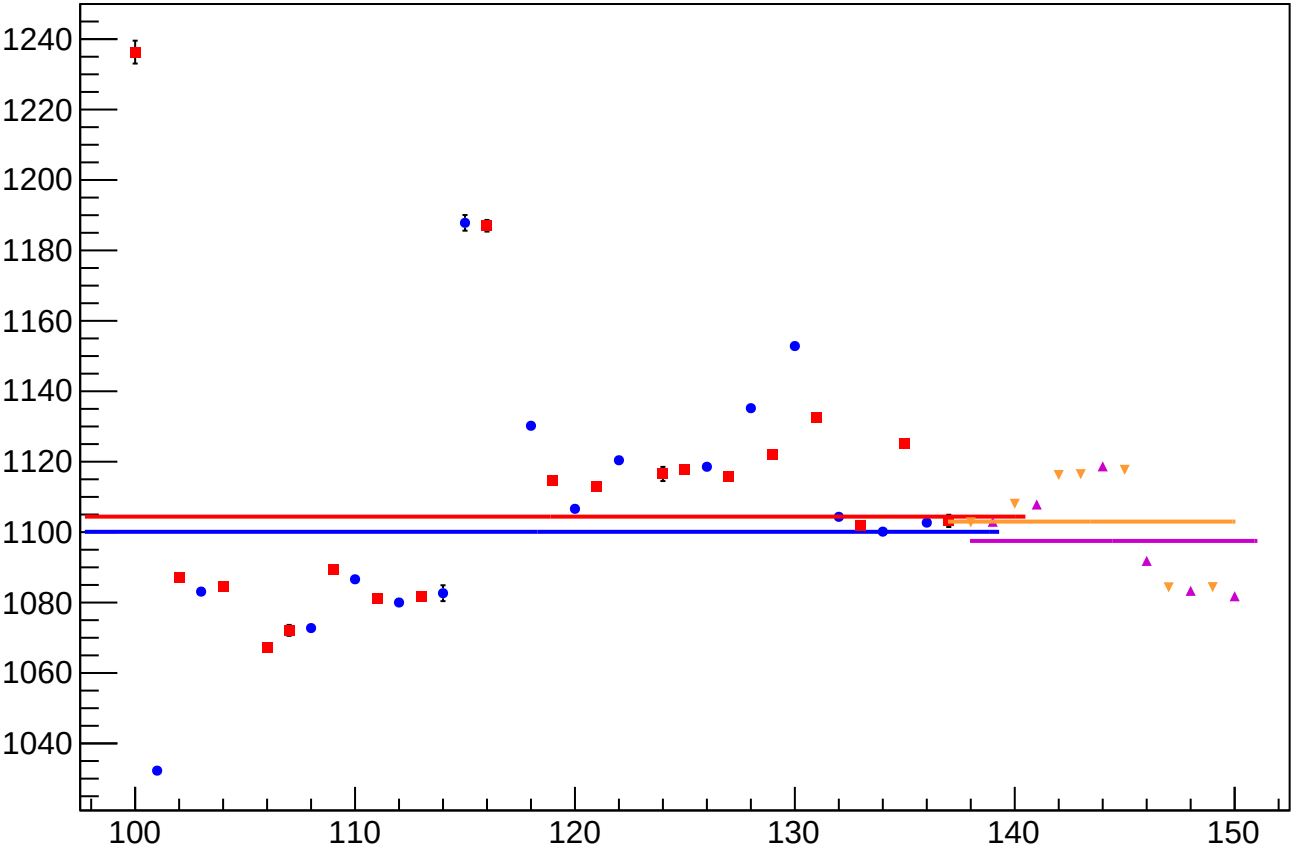
Right: 2440.090+/-286.902 $\chi^2$/NDF: 24.2/34

In: 2470.979+/-310.656 $\chi^2$/NDF:14.2/21

Out: 2019.749+/-307.637 $\chi^2$/NDF:20.4/25

All: 2243.160+/-218.592 $\chi^2$/NDF: 35.7/47

# overload_cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1100.090+/-0.289 $\chi^2$/NDF: 13077.1/15

Left Out: 1102.991+/-0.337 $\chi^2$/NDF:1660.4/6

Right Out: 1104.403+/-0.285 $\chi^2$/NDF: 8543.5/18

Left In: 1097.502+/-0.338 $\chi^2$/NDF:1556.1/5

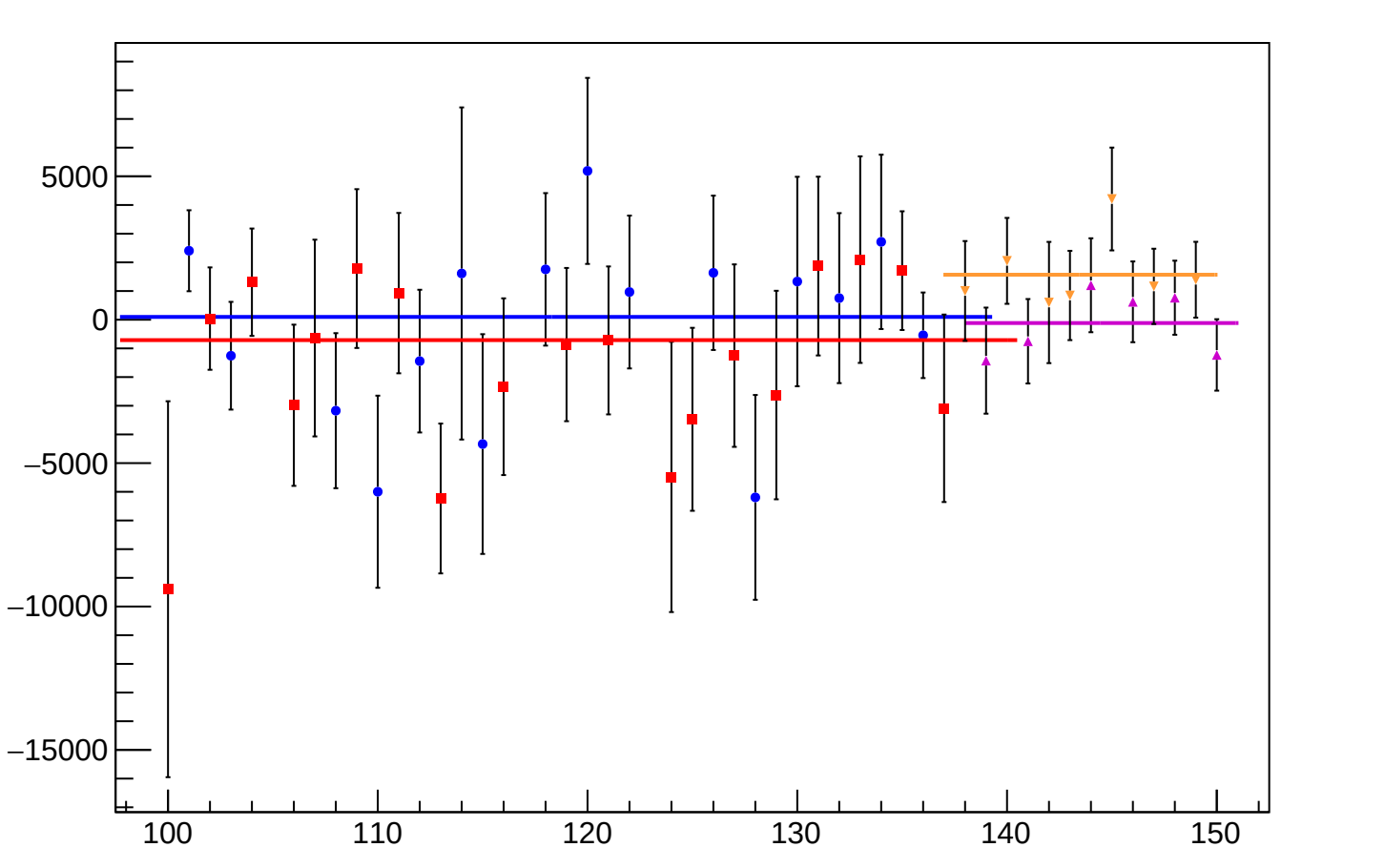
Left: 1100.254+/-0.239 $\chi^2$/NDF: 3348.7/12

Right: 1102.278+/-0.203 $\chi^2$/NDF: 21733.6/34

In: 1098.997+/-0.220 $\chi^2$/NDF:14667.1/21

Out: 1103.814+/-0.218 $\chi^2$/NDF:10214.1/25

All: 1101.429+/-0.155 $\chi^2$/NDF: 25124.1/47




Right In: 97.435+/-618.876 $\chi^2$/NDF: 17.2/15

Left Out: 1568.492+/-589.598 $\chi^2$/NDF:2.9/6

Right Out: -711.287+/-637.587 $\chi^2$/NDF: 14.9/18

Left In: -115.701+/-589.744 $\chi^2$/NDF:2.9/5

Left: 726.604+/-416.960 $\chi^2$/NDF: 9.9/12

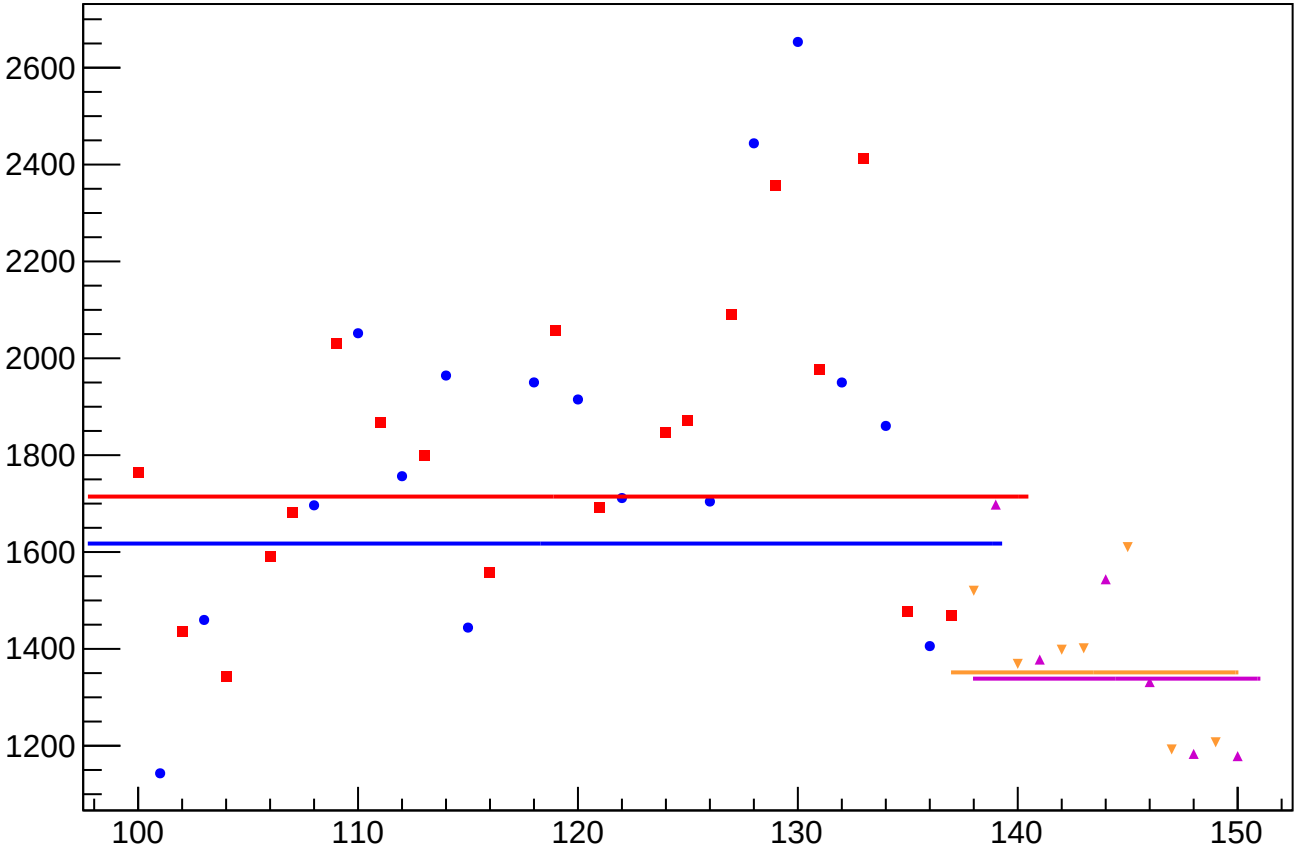
Right: -294.885+/-444.079 $\chi^2$/NDF: 33.0/34

In: -14.267+/-426.940 $\chi^2$/NDF:20.2/21

Out: 517.617+/-432.881 $\chi^2$/NDF:24.7/25

All: 248.000+/-303.971 $\chi^2$/NDF: 45.7/47

asym_usr_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 1617.491+/-0.438 $\chi^2$/NDF: 691725.3/15

Left Out: 1351.487+/-0.417 $\chi^2$/NDF:116950.4/6

Right Out: 1714.508+/-0.451 $\chi^2$/NDF: 427709.9/18

Left In: 1338.573+/-0.417 $\chi^2$/NDF:170331.4/5

Left: 1345.032+/-0.295 $\chi^2$/NDF: 287761.4/12

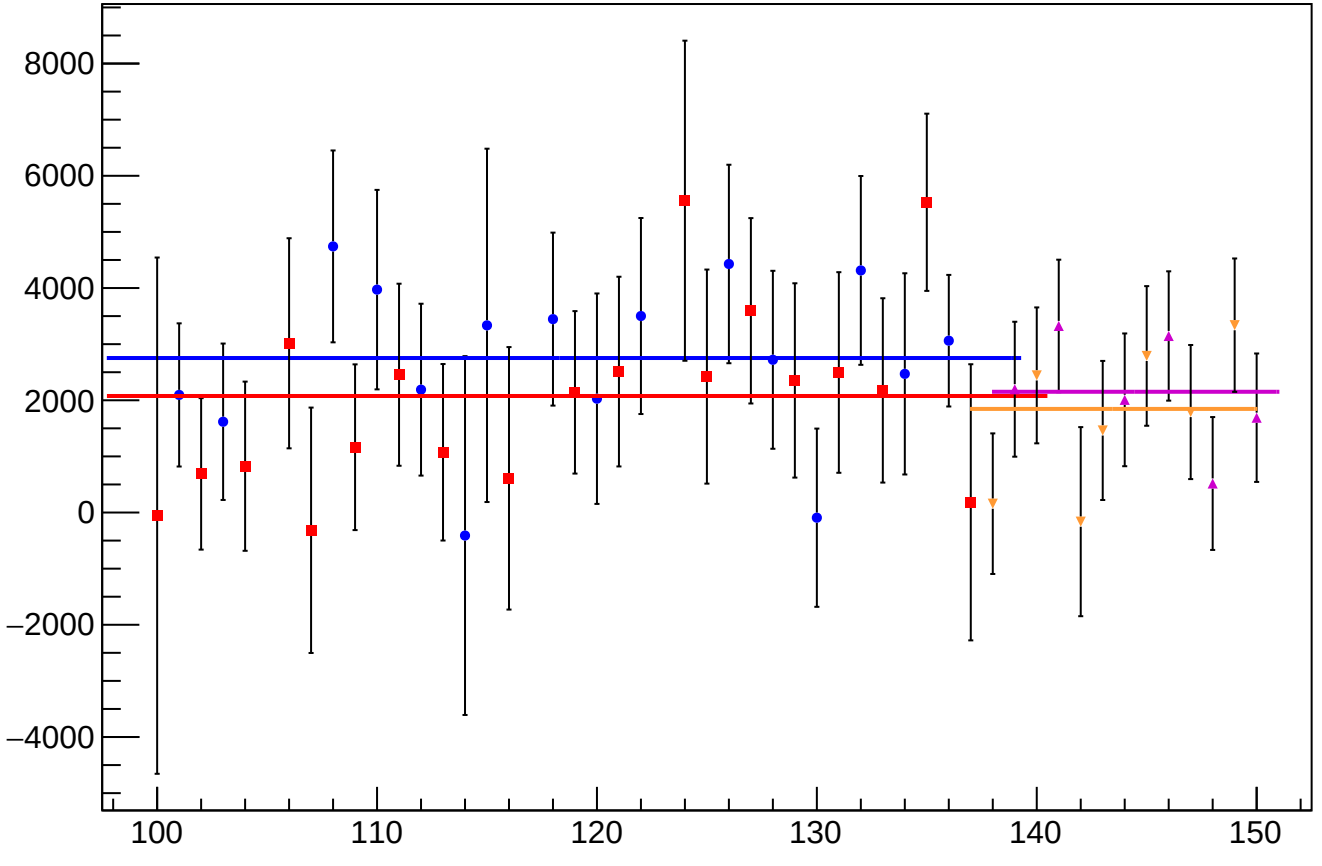
Right: 1664.555+/-0.314 $\chi^2$/NDF: 1143278.0/34

In: 1471.313+/-0.302 $\chi^2$/NDF:1074958.8/21

Out: 1518.823+/-0.306 $\chi^2$/NDF:894154.0/25

All: 1494.740+/-0.215 $\chi^2$/NDF: 1981324.9/47

# eigen_cor_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1846.204+/-477.951 $\chi^2$/NDF:5.7/6

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2151.600+/-479.188 $\chi^2$/NDF:3.8/5

Left: 1998.507+/-338.399 $\chi^2$/NDF: 9.8/12

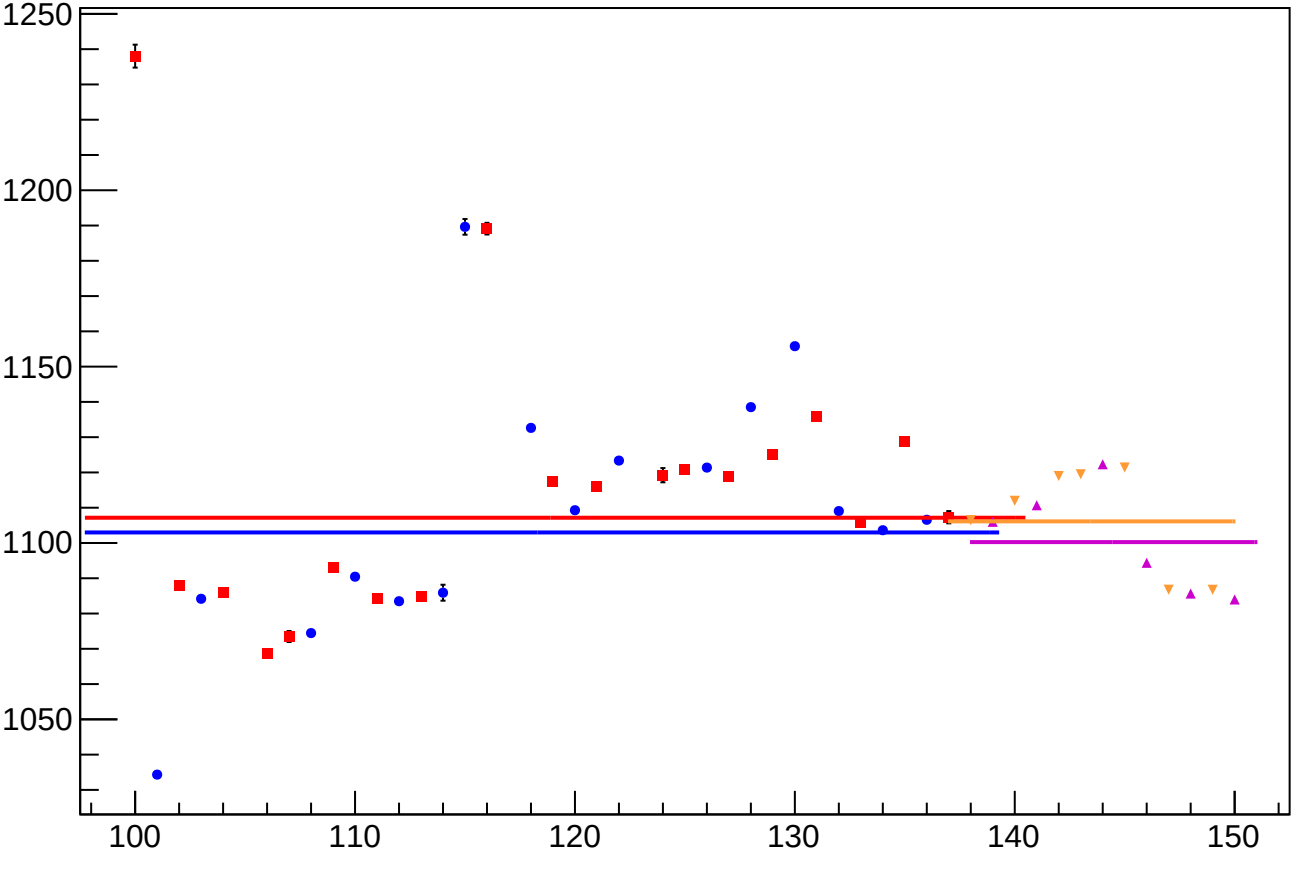
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2499.001+/-311.459 $\chi^2$/NDF:14.2/21

Out: 1980.567+/-308.451 $\chi^2$/NDF:18.4/25

All: 2237.268+/-219.163 $\chi^2$/NDF: 34.0/47

# eigen_cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1106.127+/-0.338 $\chi^2$/NDF:1754.6/6

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1100.253+/-0.339 $\chi^2$/NDF:1658.0/5

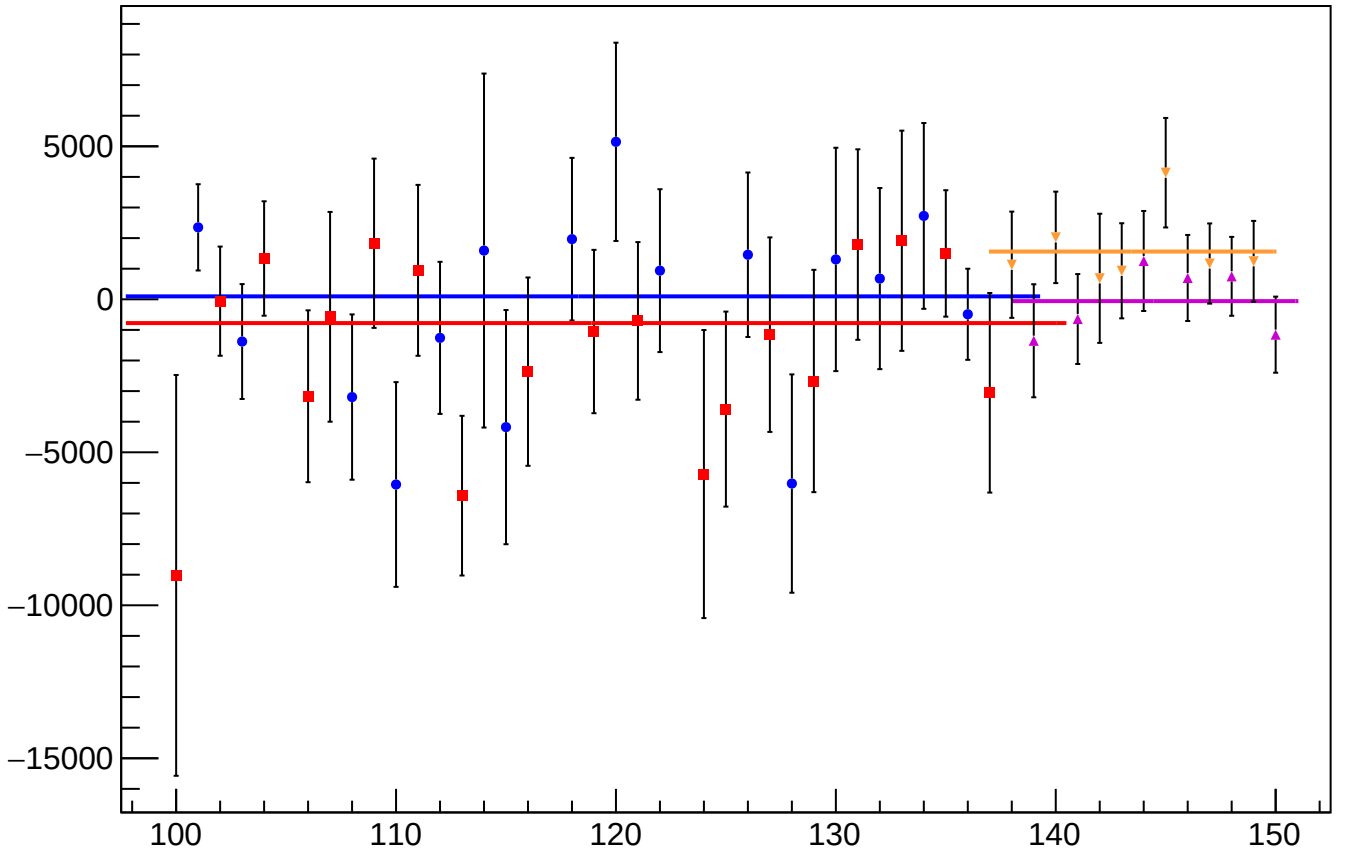
Left: 1103.197+/-0.239 $\chi^2$/NDF: 3563.3/12

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1101.832+/-0.220 $\chi^2$/NDF:14919.4/21

Out: 1106.729+/-0.218 $\chi^2$/NDF:10443.4/25

All: 1104.304+/-0.155 $\chi^2$/NDF: 25612.4/47




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 1561.199+/-588.514 $\chi^2$/NDF:2.7/6

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -58.904+/-588.771 $\chi^2$/NDF:2.8/5

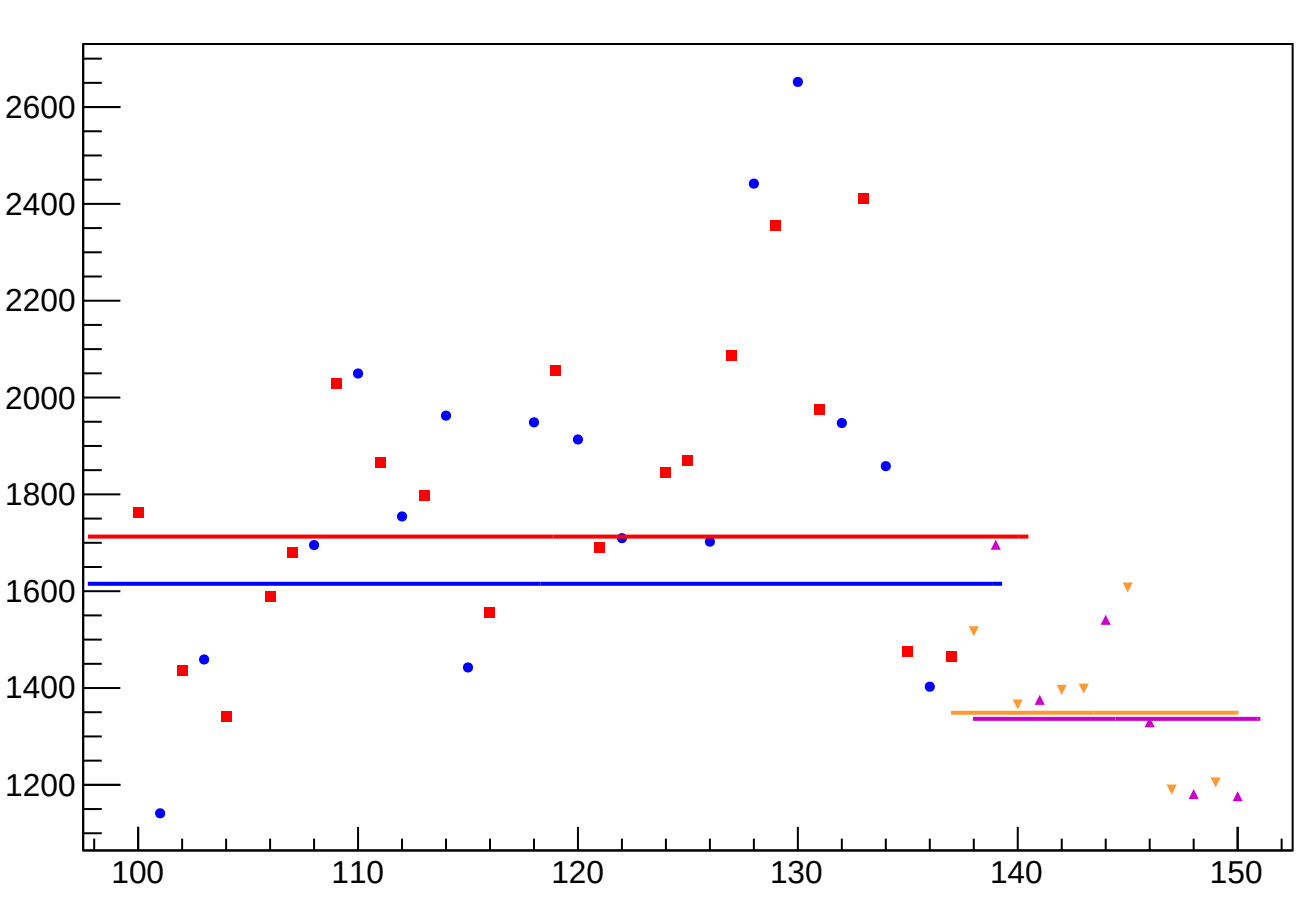
Left: 751.500+/-416.233 $\chi^2$/NDF: 9.3/12

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: 14.765+/-426.314 $\chi^2$/NDF:19.7/21

Out: 484.403+/-432.258 $\chi^2$/NDF:25.1/25

All: 246.333+/-303.529 $\chi^2$/NDF: 45.4/47




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1348.970+/-0.416 $\chi^2$/NDF:117038.4/6

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1336.320+/-0.416 $\chi^2$/NDF:170670.8/5

Left: 1342.648+/-0.294 $\chi^2$/NDF: 288171.0/12

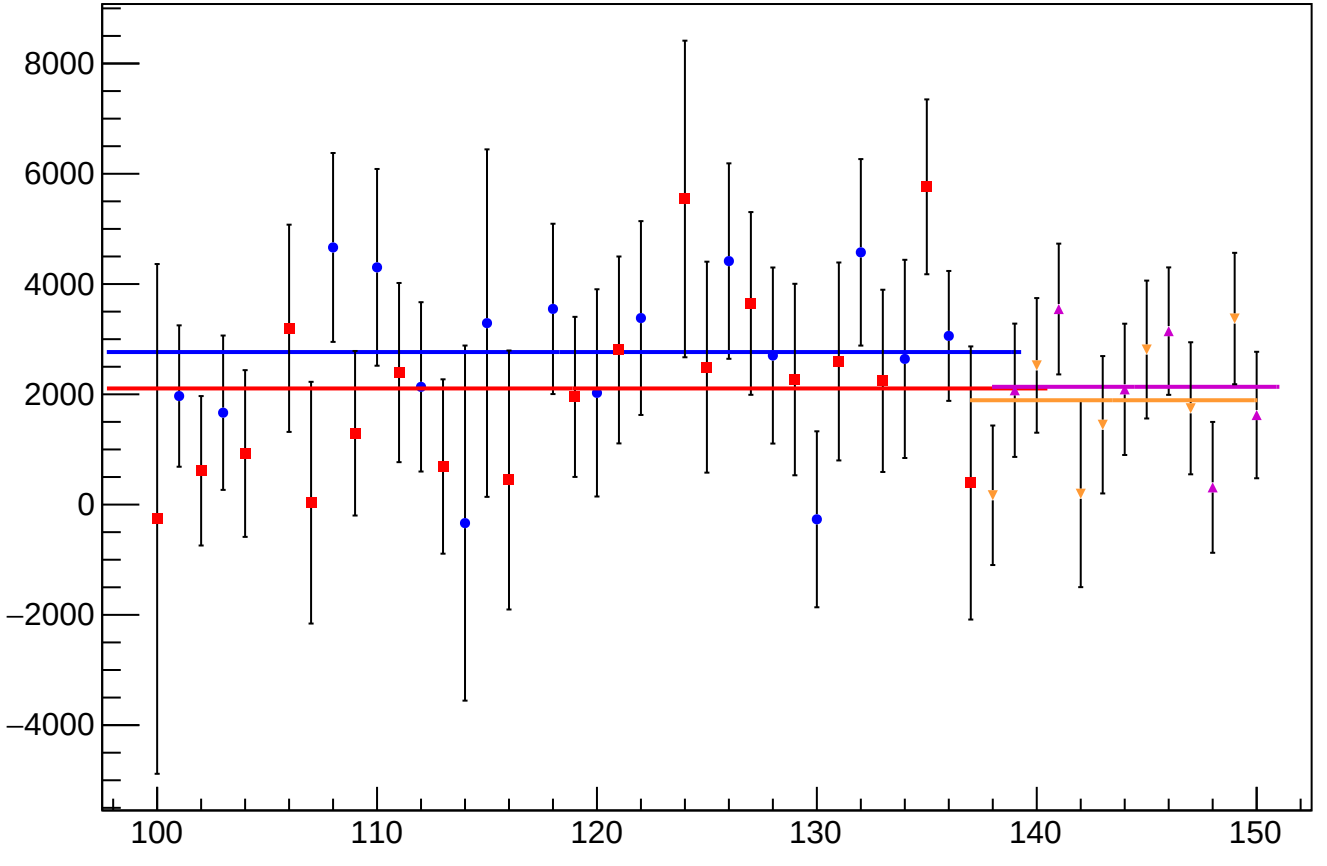
Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1469.043+/-0.301 $\chi^2$/NDF:1077939.0/21

Out: 1516.522+/-0.306 $\chi^2$/NDF:897118.7/25

All: 1492.454+/-0.215 $\chi^2$/NDF: 1987289.4/47

# dit_asym_usr_mean vs Slug, Sign Corrected




Right In: 2766.657+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 1892.496+/-480.610 $\chi^2$/NDF:5.4/6

Right Out: 2106.358+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2136.168+/-481.148 $\chi^2$/NDF:4.7/5

Left: 2014.195+/-340.033 $\chi^2$/NDF: 10.2/12

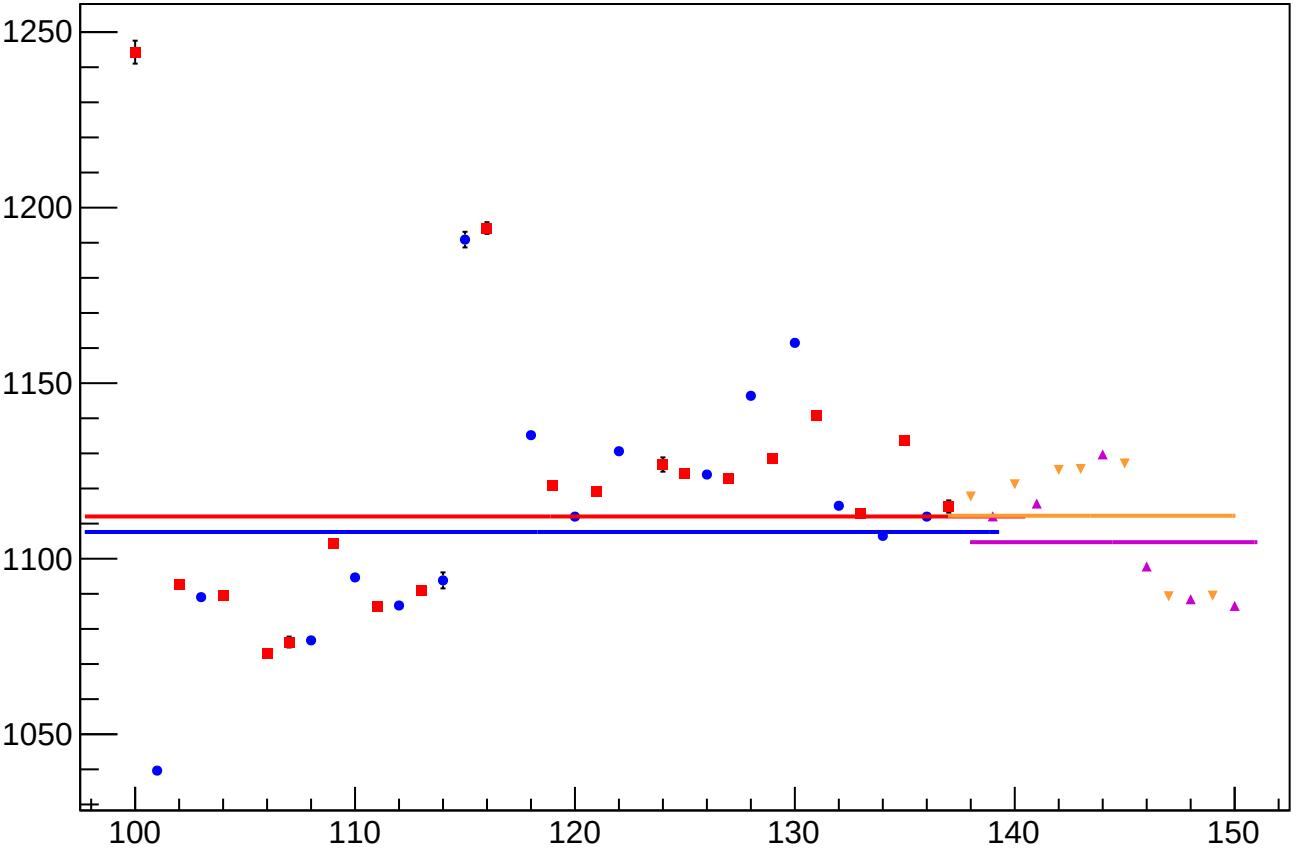
Right: 2431.678+/-288.883 $\chi^2$/NDF: 25.0/34

In: 2500.261+/-312.755 $\chi^2$/NDF:16.1/21

Out: 2017.403+/-309.963 $\chi^2$/NDF:18.8/25

All: 2256.667+/-220.157 $\chi^2$/NDF: 36.1/47

# dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.8/15

Left Out: 1112.242+/-0.340 $\chi^2$/NDF:2239.4/6

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1104.711+/-0.340 $\chi^2$/NDF:2075.6/5

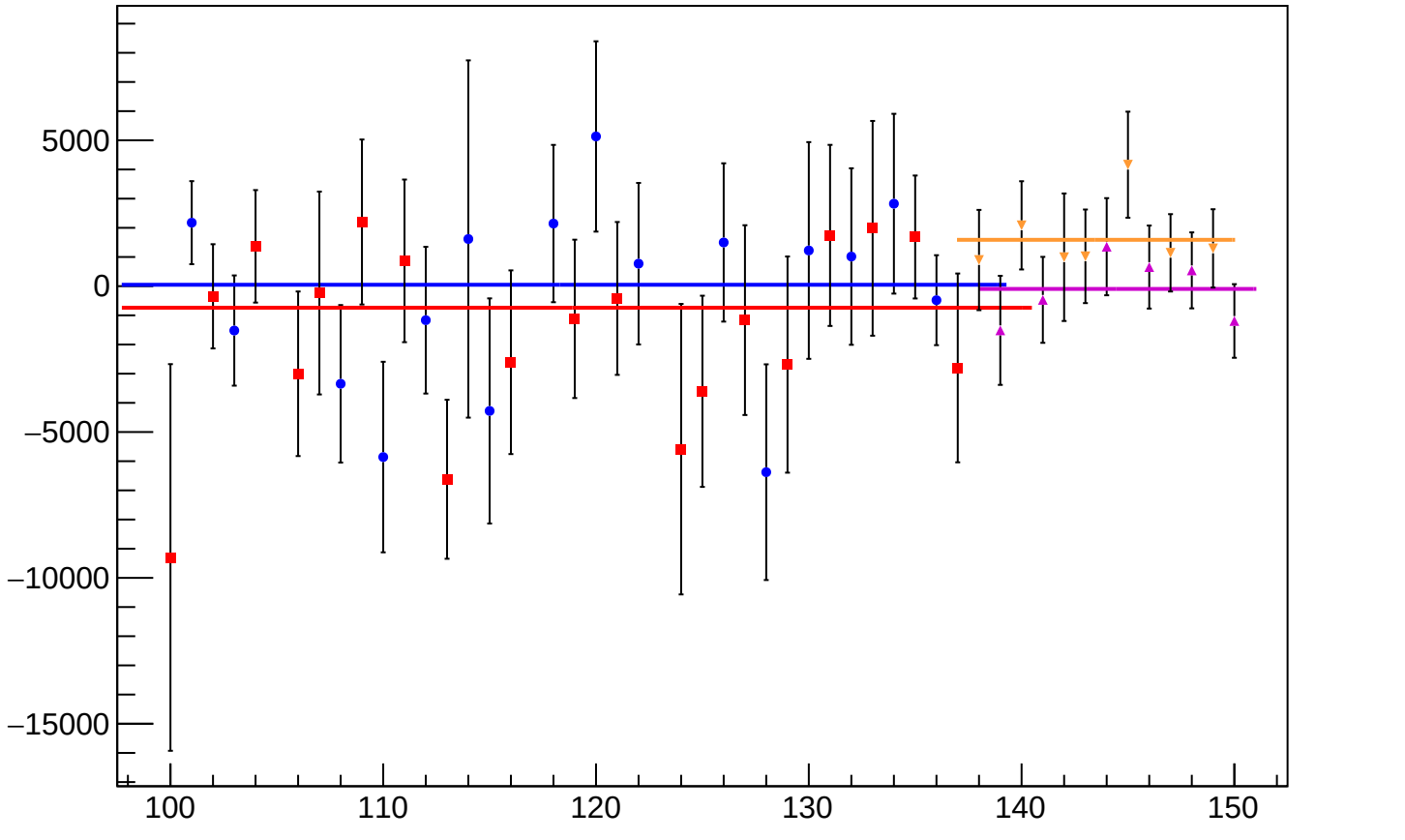
Left: 1108.481+/-0.240 $\chi^2$/NDF: 4560.3/12

Right: 1109.854+/-0.204 $\chi^2$/NDF: 21991.1/34

In: 1106.387+/-0.221 $\chi^2$/NDF:15338.4/21

Out: 1112.118+/-0.219 $\chi^2$/NDF:10893.1/25

All: 1109.278+/-0.156 $\chi^2$/NDF: 26570.3/47




Right In: 47.817+/-628.060 $\chi^2$/NDF: 16.9/15

Left Out: 1588.950+/-597.597 $\chi^2$/NDF:2.6/6

Right Out: -738.185+/-647.795 $\chi^2$/NDF: 14.9/18

Left In: -94.821+/-595.609 $\chi^2$/NDF:2.7/5

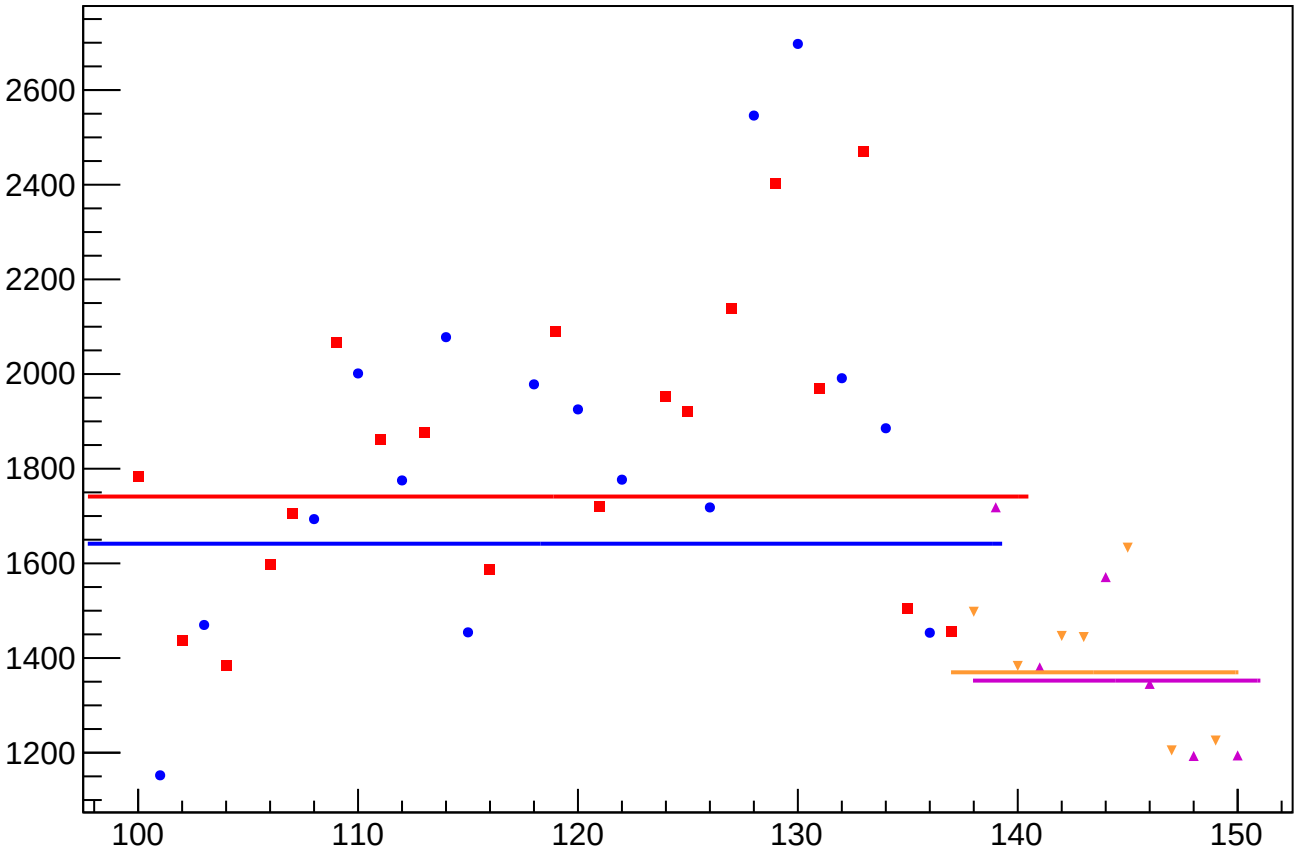
Left: 744.259+/-421.860 $\chi^2$/NDF: 9.3/12

Right: -333.029+/-450.921 $\chi^2$/NDF: 32.6/34

In: -27.282+/-432.176 $\chi^2$/NDF:19.6/21

Out: 519.031+/-439.241 $\chi^2$/NDF:24.6/25

All: 241.446+/-308.062 $\chi^2$/NDF: 44.9/47




Right In: 1641.538+/-0.444 $\chi^2$/NDF: 701311.4/15

Left Out: 1369.837+/-0.423 $\chi^2$/NDF:114029.3/6

Right Out: 1741.200+/-0.458 $\chi^2$/NDF: 438336.6/18

Left In: 1352.322+/-0.421 $\chi^2$/NDF:173249.9/5

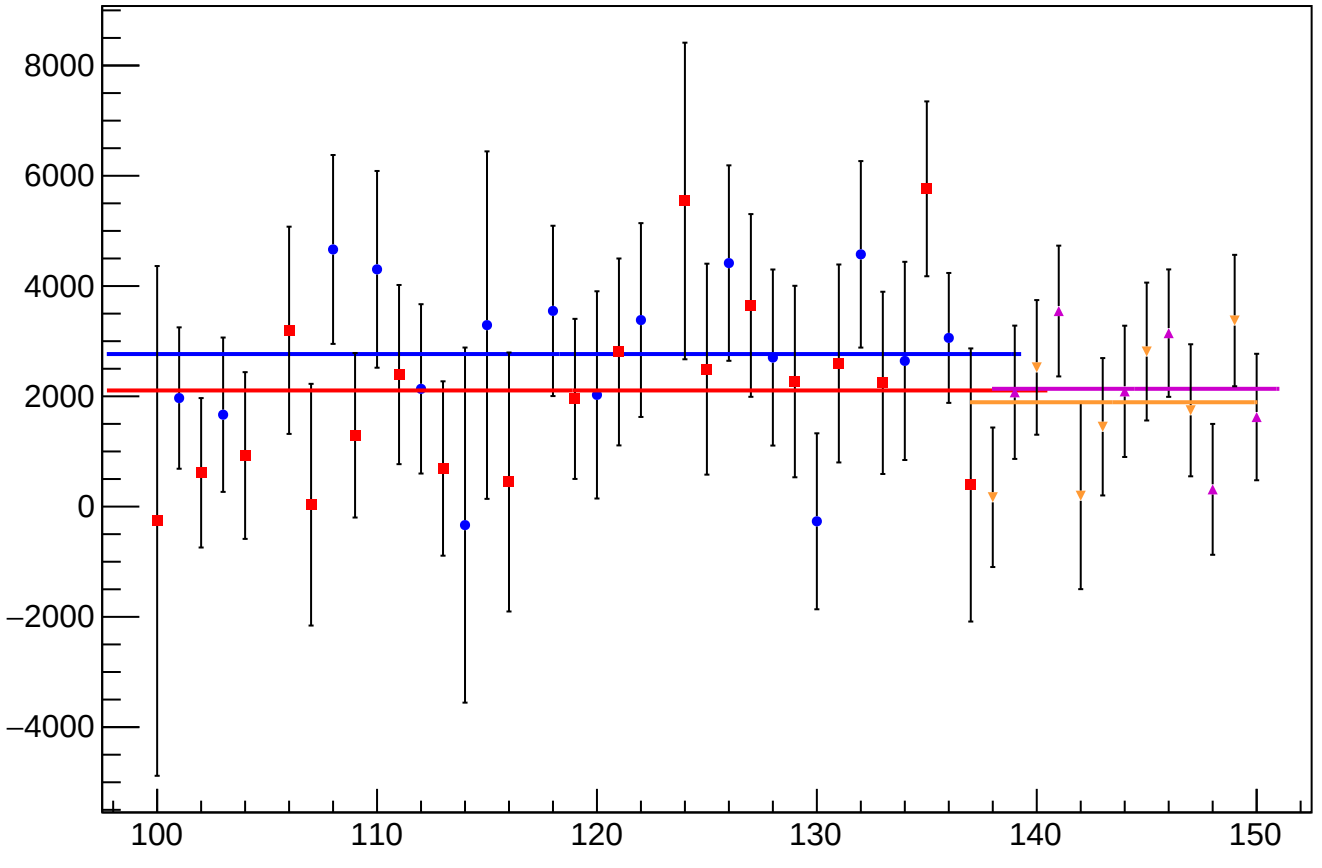
Left: 1361.050+/-0.298 $\chi^2$/NDF: 288141.1/12

Right: 1689.828+/-0.319 $\chi^2$/NDF: 1164049.3/34

In: 1489.265+/-0.306 $\chi^2$/NDF:1097852.1/21

Out: 1540.574+/-0.311 $\chi^2$/NDF:907456.3/25

All: 1514.504+/-0.218 $\chi^2$/NDF: 2019174.9/47




Right In: 2766.656+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 1892.498+/-480.610 $\chi^2$/NDF:5.4/6

Right Out: 2106.360+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2136.167+/-481.148 $\chi^2$/NDF:4.7/5

Left: 2014.196+/-340.033 $\chi^2$/NDF: 10.2/12

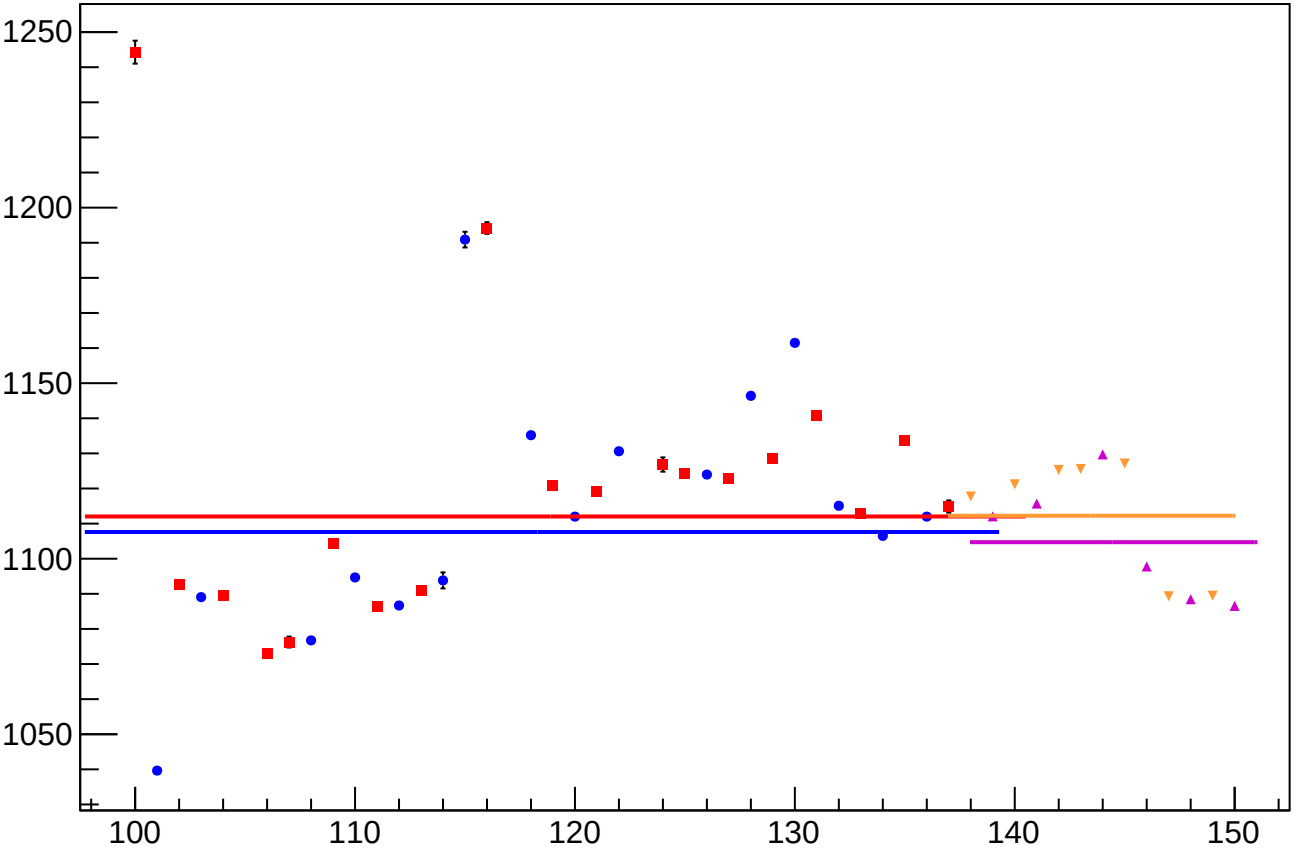
Right: 2431.678+/-288.882 $\chi^2$/NDF: 25.0/34

In: 2500.260+/-312.755 $\chi^2$/NDF:16.1/21

Out: 2017.405+/-309.963 $\chi^2$/NDF:18.8/25

All: 2256.668+/-220.157 $\chi^2$/NDF: 36.1/47

# eigen_dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.7/15

Left Out: 1112.242+/-0.340 $\chi^2$/NDF:2239.4/6

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1104.711+/-0.340 $\chi^2$/NDF:2075.6/5

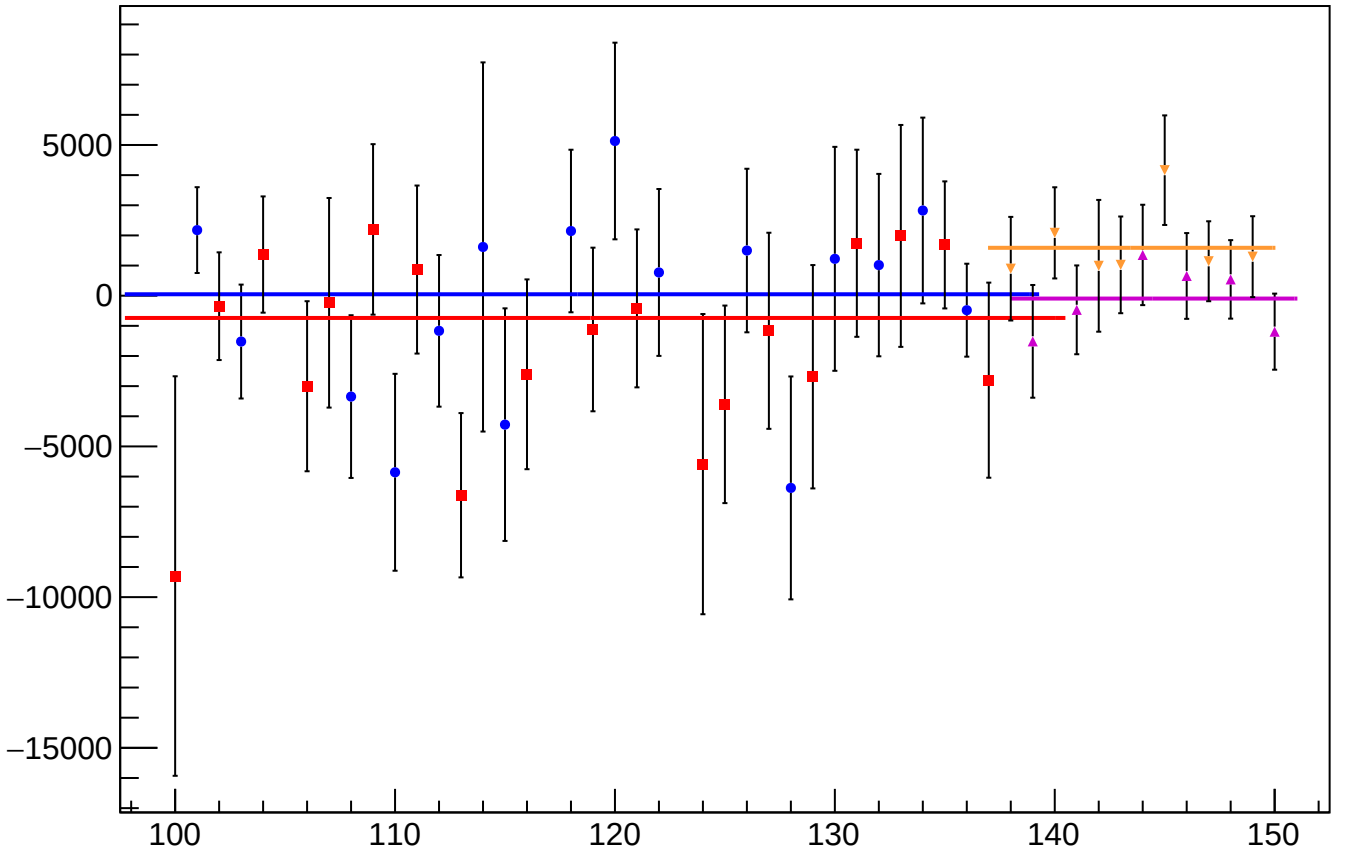
Left: 1108.481+/-0.240 $\chi^2$/NDF: 4560.3/12

Right: 1109.853+/-0.204 $\chi^2$/NDF: 21991.0/34

In: 1106.387+/-0.221 $\chi^2$/NDF:15338.3/21

Out: 1112.118+/-0.219 $\chi^2$/NDF:10893.1/25

All: 1109.278+/-0.156 $\chi^2$/NDF: 26570.2/47




Right In: 47.813+/-628.059 $\chi^2$/NDF: 16.9/15

Left Out: 1588.951+/-597.598 $\chi^2$/NDF:2.6/6

Right Out: -738.188+/-647.795 $\chi^2$/NDF: 14.9/18

Left In: -94.821+/-595.610 $\chi^2$/NDF:2.7/5

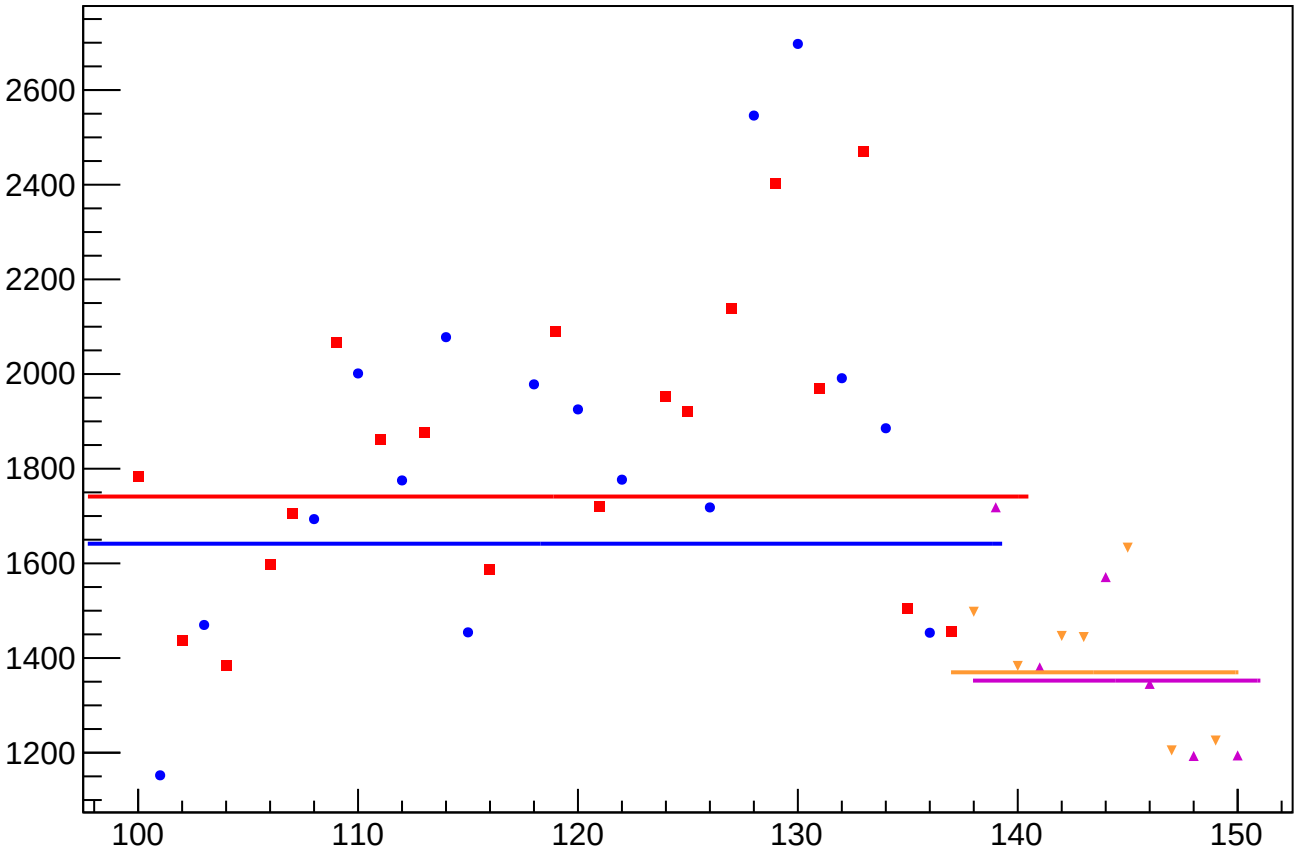
Left: 744.260+/-421.861 $\chi^2$/NDF: 9.3/12

Right: -333.032+/-450.921 $\chi^2$/NDF: 32.6/34

In: -27.284+/-432.176 $\chi^2$/NDF:19.6/21

Out: 519.026+/-439.241 $\chi^2$/NDF:24.6/25

All: 241.443+/-308.062 $\chi^2$/NDF: 44.9/47




Right In: 1641.536+/-0.444 $\chi^2$/NDF: 701299.1/15

Left Out: 1369.840+/-0.423 $\chi^2$/NDF:114031.2/6

Right Out: 1741.199+/-0.458 $\chi^2$/NDF: 438324.1/18

Left In: 1352.324+/-0.421 $\chi^2$/NDF:173252.6/5

Left: 1361.053+/-0.298 $\chi^2$/NDF: 288145.8/12

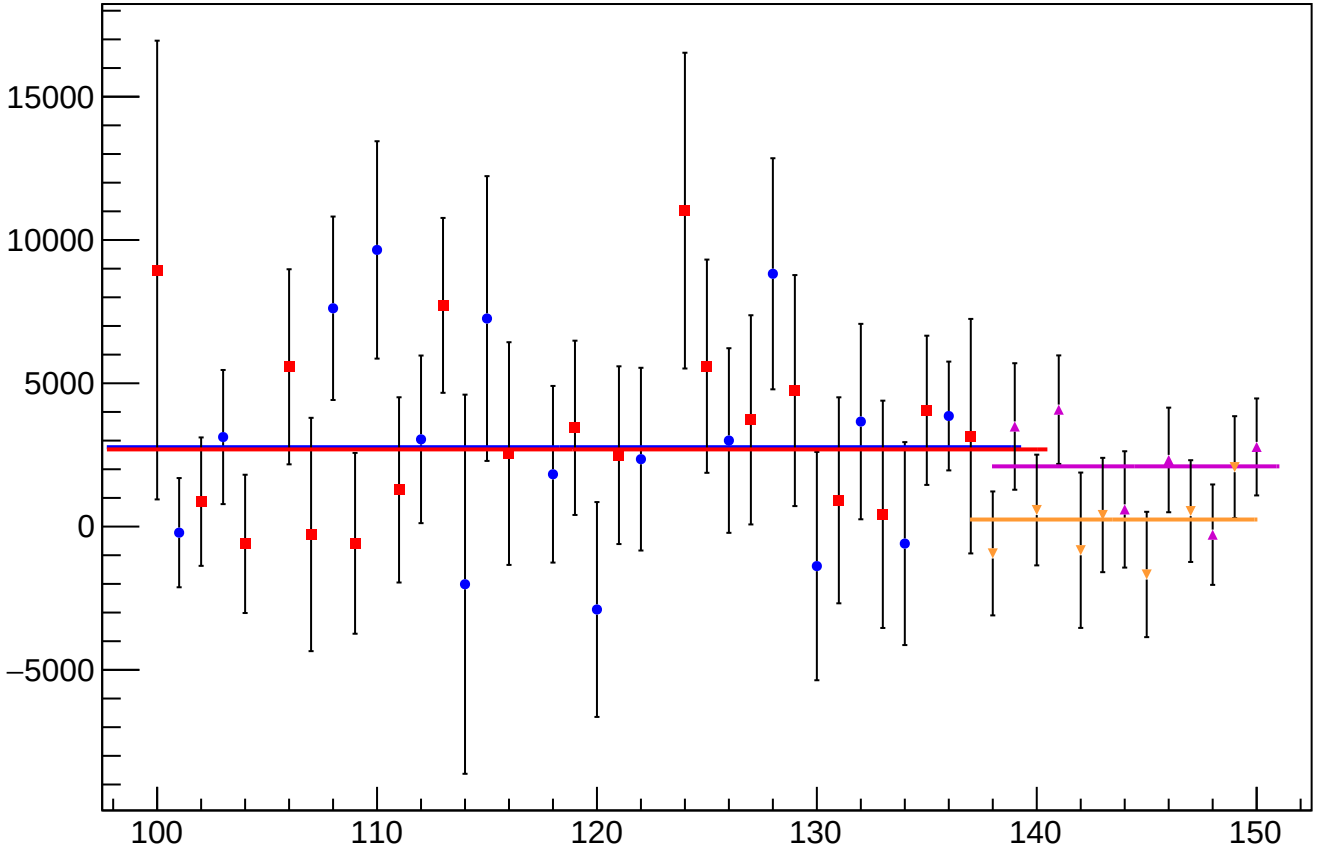
Right: 1689.826+/-0.319 $\chi^2$/NDF: 1164025.0/34

In: 1489.266+/-0.306 $\chi^2$/NDF:1097835.7/21

Out: 1540.576+/-0.311 $\chi^2$/NDF:907438.1/25

All: 1514.505+/-0.218 $\chi^2$/NDF: 2019140.6/47

# asym_usr_mean vs Slug, Sign Corrected




Right In: 2769.952+/-757.109 $\chi^2$/NDF: 16.4/15

Left Out: 246.198+/-764.262 $\chi^2$/NDF:2.3/6

Right Out: 2692.625+/-765.754 $\chi^2$/NDF: 12.5/18

Left In: 2101.306+/-766.509 $\chi^2$/NDF:4.1/5

Left: 1171.029+/-541.207 $\chi^2$/NDF: 9.3/12

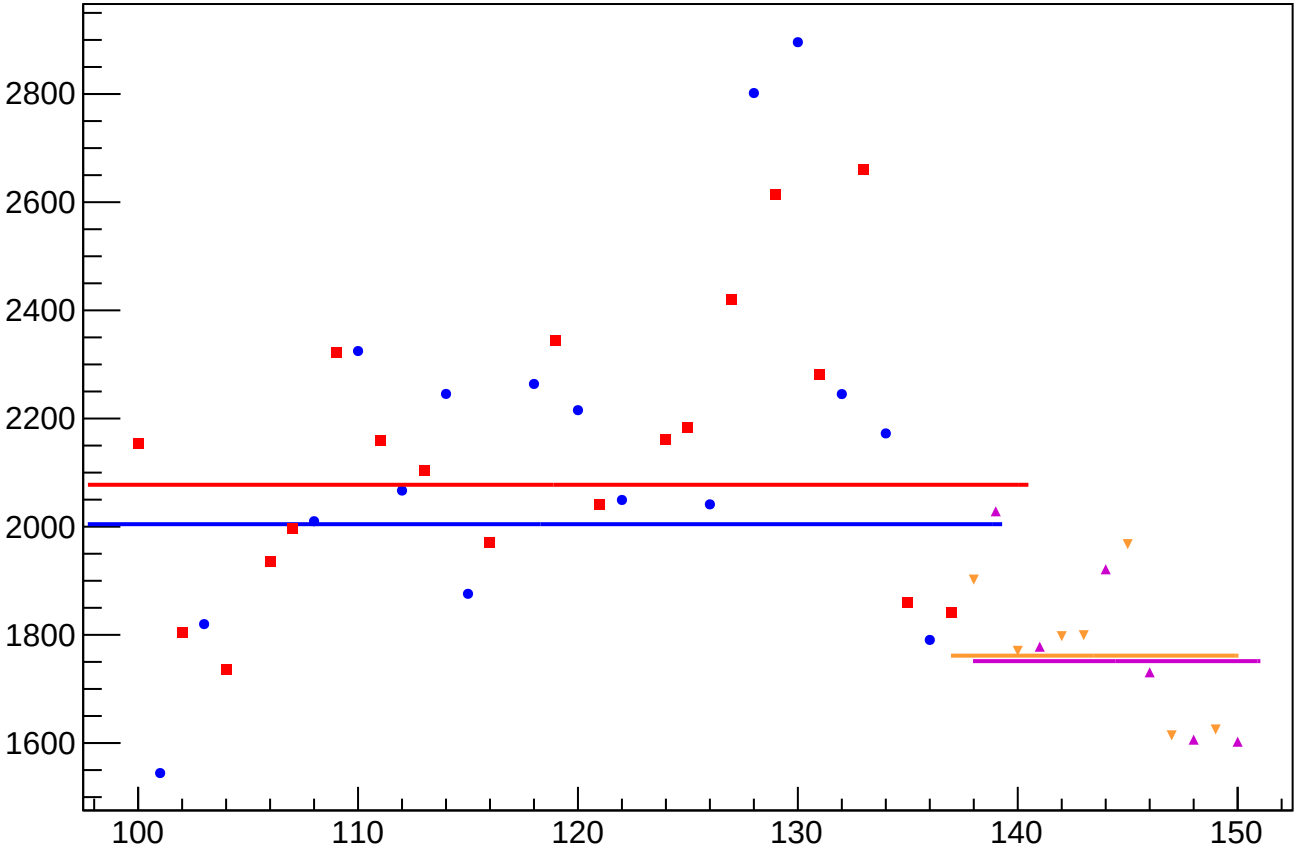
Right: 2731.727+/-538.387 $\chi^2$/NDF: 29.0/34

In: 2439.754+/-538.650 $\chi^2$/NDF:20.9/21

Out: 1467.026+/-540.941 $\chi^2$/NDF:20.0/25

All: 1955.455+/-381.690 $\chi^2$/NDF: 42.5/47

# asym_usr_rms vs Slug, Sign Corrected




Right In: 2004.635+/-0.535 $\chi^2$/NDF: 387567.3/15

Left Out: 1761.553+/-0.540 $\chi^2$/NDF:52913.3/6

Right Out: 2077.500+/-0.541 $\chi^2$/NDF: 230482.0/18

Left In: 1751.430+/-0.542 $\chi^2$/NDF:75395.7/5

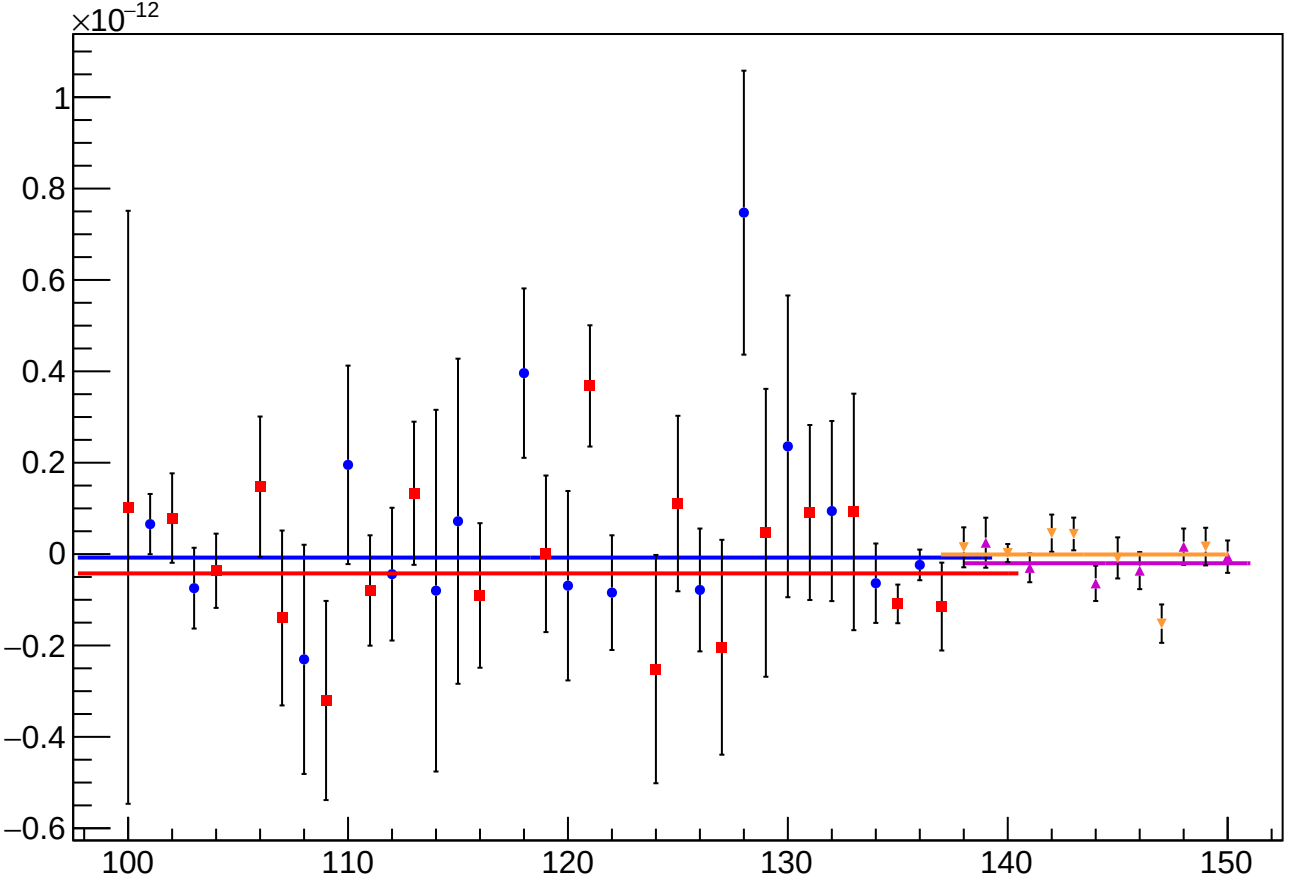
Left: 1756.506+/-0.383 $\chi^2$/NDF: 128484.0/12

Right: 2040.654+/-0.381 $\chi^2$/NDF: 627206.5/34

In: 1879.595+/-0.381 $\chi^2$/NDF:573431.1/21

Out: 1919.219+/-0.383 $\chi^2$/NDF:453963.0/25

All: 1899.322+/-0.270 $\chi^2$/NDF: 1032782.4/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.2/5

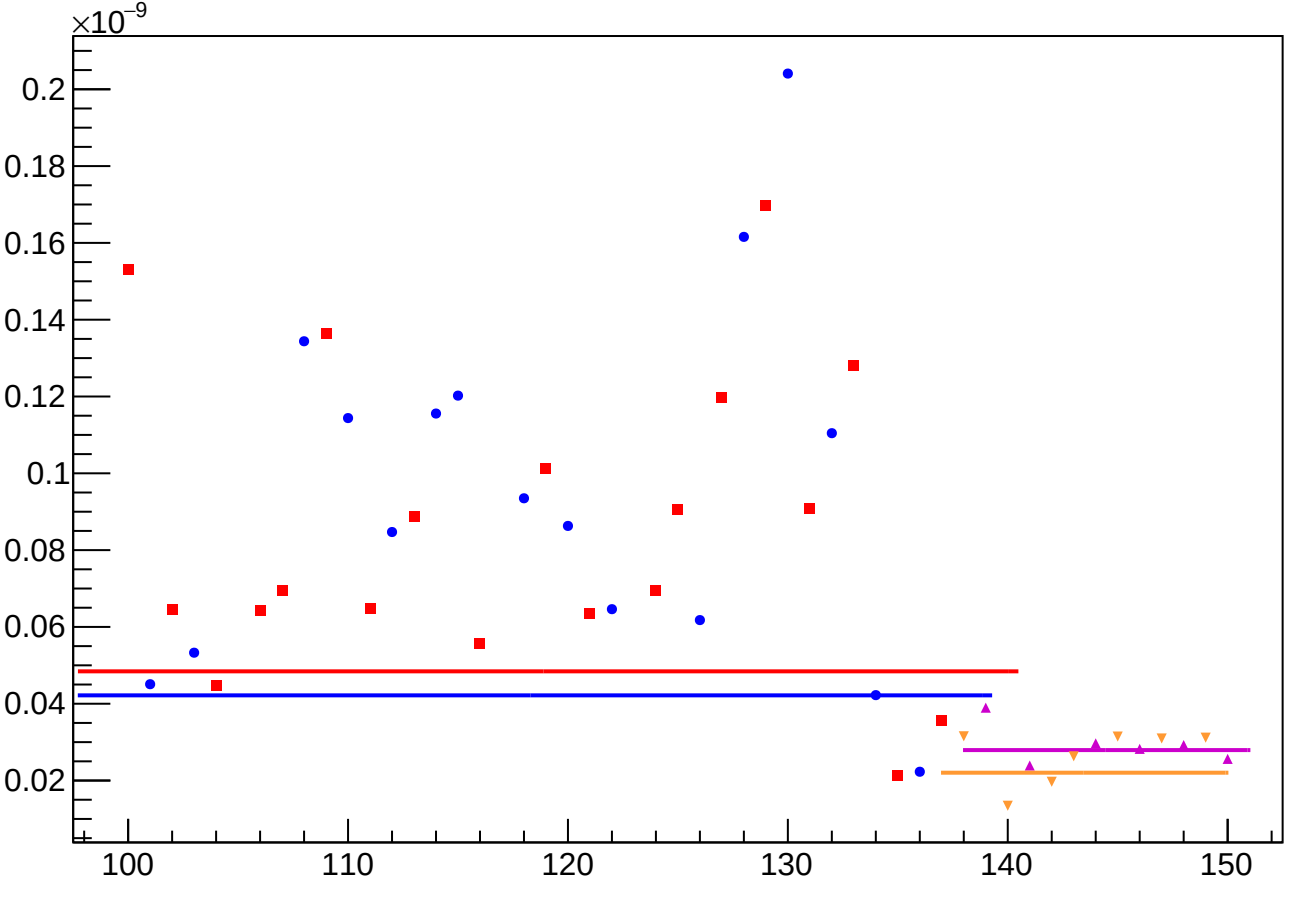
Left: -0.000+/-0.000 $\chi^2$/NDF: 20.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.9/21

Out: -0.000+/-0.000 $\chi^2$/NDF:39.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 60.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2933545.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:782215.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2604483.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:128770.5/5

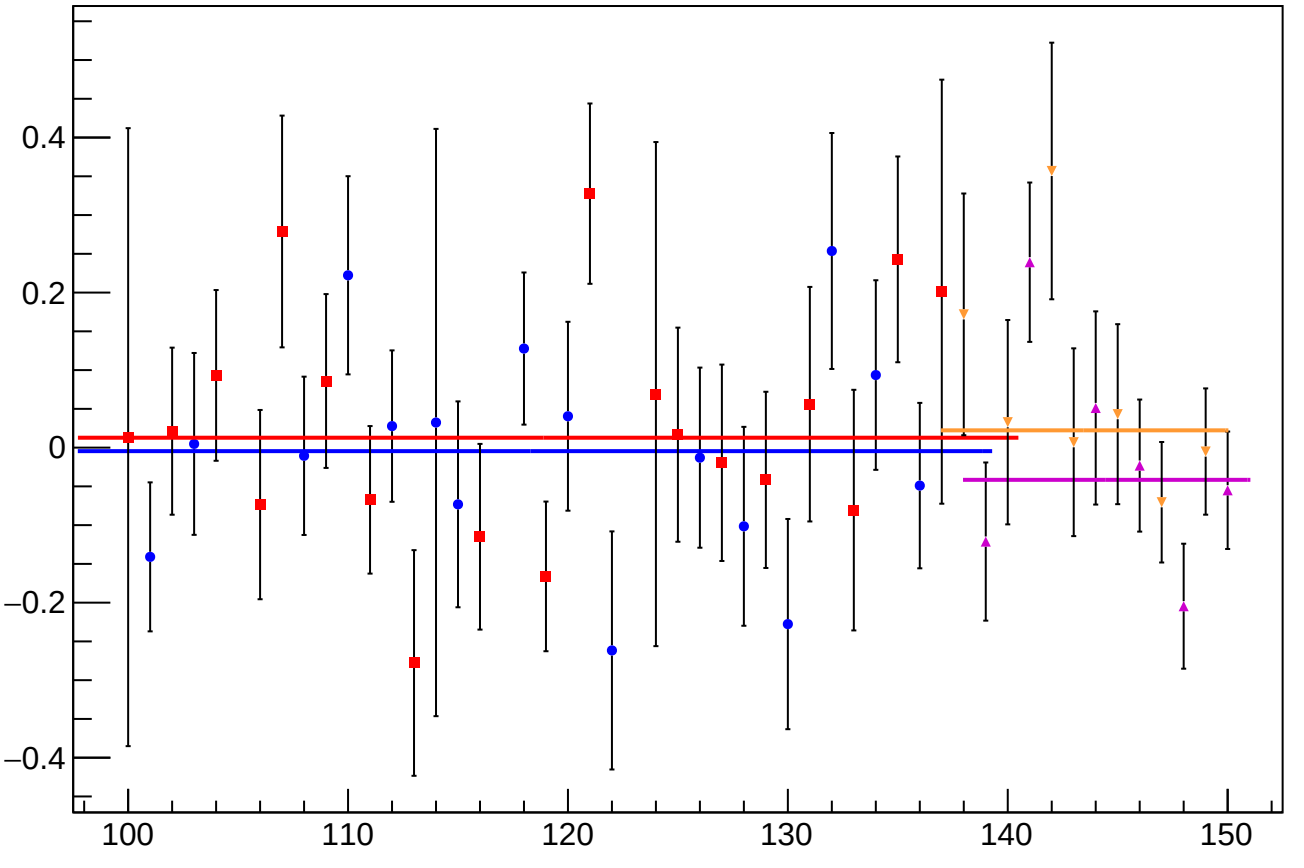
Left: 0.000+/-0.000 $\chi^2$/NDF: 1079846.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5597279.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3547727.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4945835.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8673171.3/47




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.022+/-0.041 $\chi^2$/NDF:6.6/6

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.042+/-0.037 $\chi^2$/NDF:12.8/5

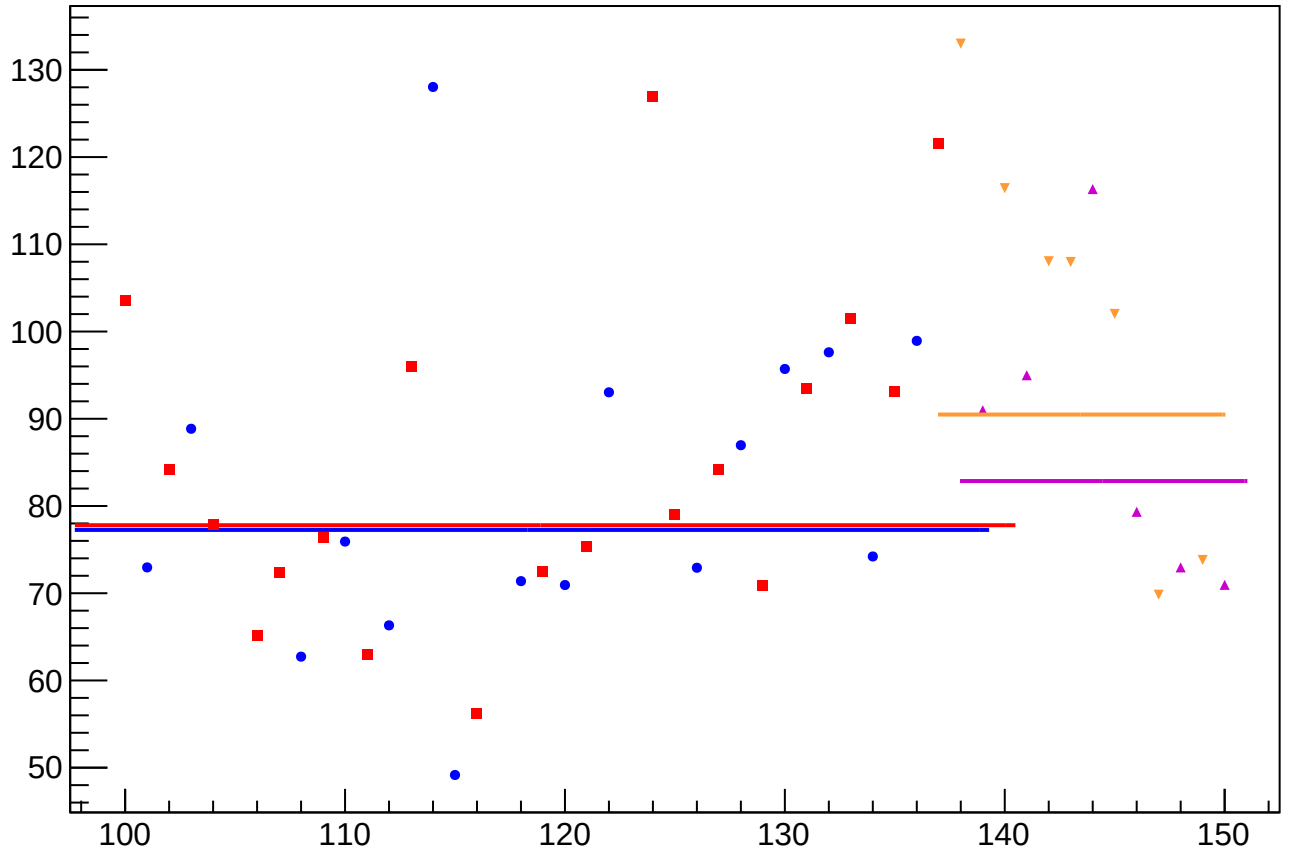
Left: -0.013+/-0.028 $\chi^2$/NDF: 20.7/12

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.019+/-0.023 $\chi^2$/NDF:30.7/21

Out: 0.016+/-0.024 $\chi^2$/NDF:32.1/25

All: -0.002+/-0.017 $\chi^2$/NDF: 63.9/47




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 90.484+/-0.029 $\chi^2$/NDF:535327.4/6

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 82.862+/-0.026 $\chi^2$/NDF:267762.3/5

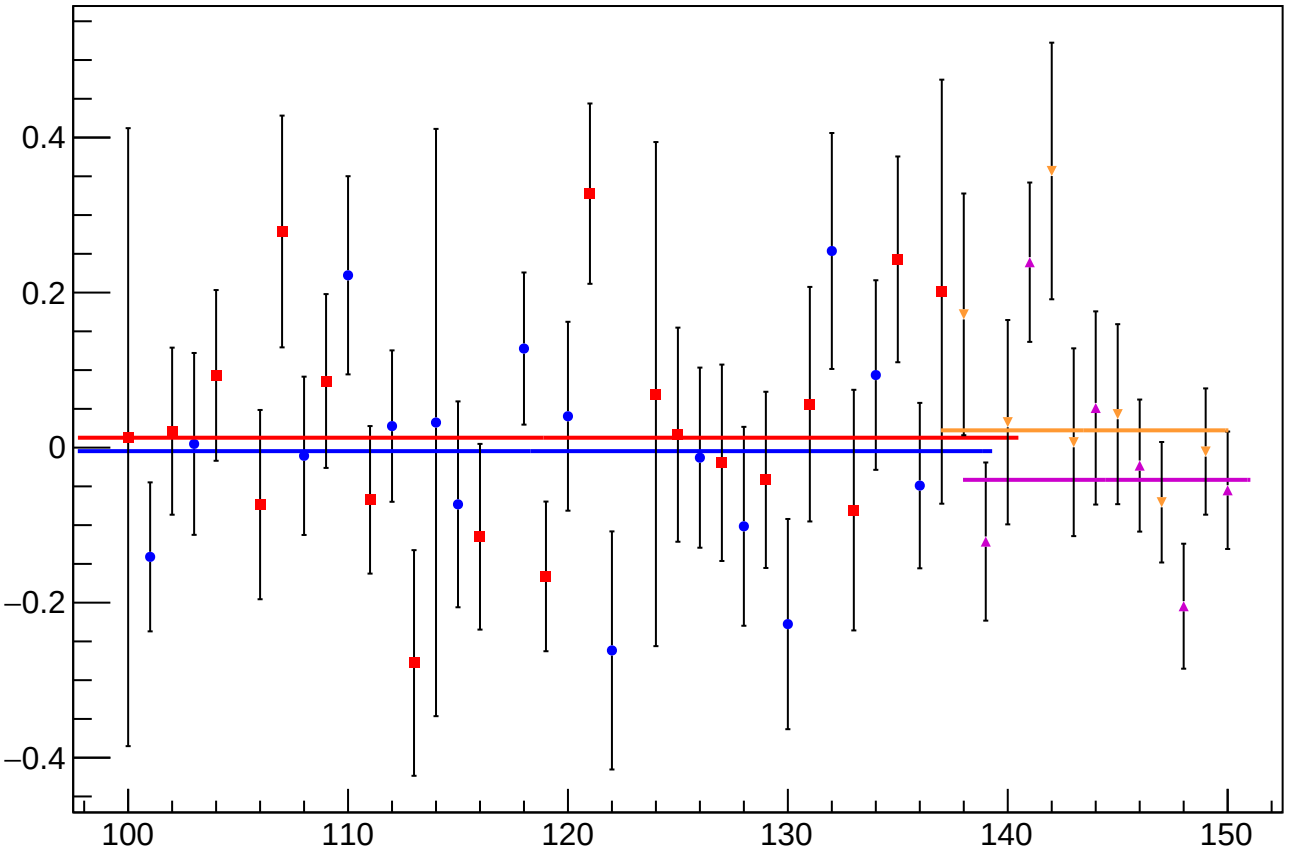
Left: 86.304+/-0.019 $\chi^2$/NDF: 840930.4/12

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 79.469+/-0.017 $\chi^2$/NDF:714474.2/21

Out: 82.162+/-0.017 $\chi^2$/NDF:1057202.3/25

All: 80.777+/-0.012 $\chi^2$/NDF: 1784562.0/47




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.022+/-0.041 $\chi^2$/NDF:6.6/6

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.042+/-0.037 $\chi^2$/NDF:12.8/5

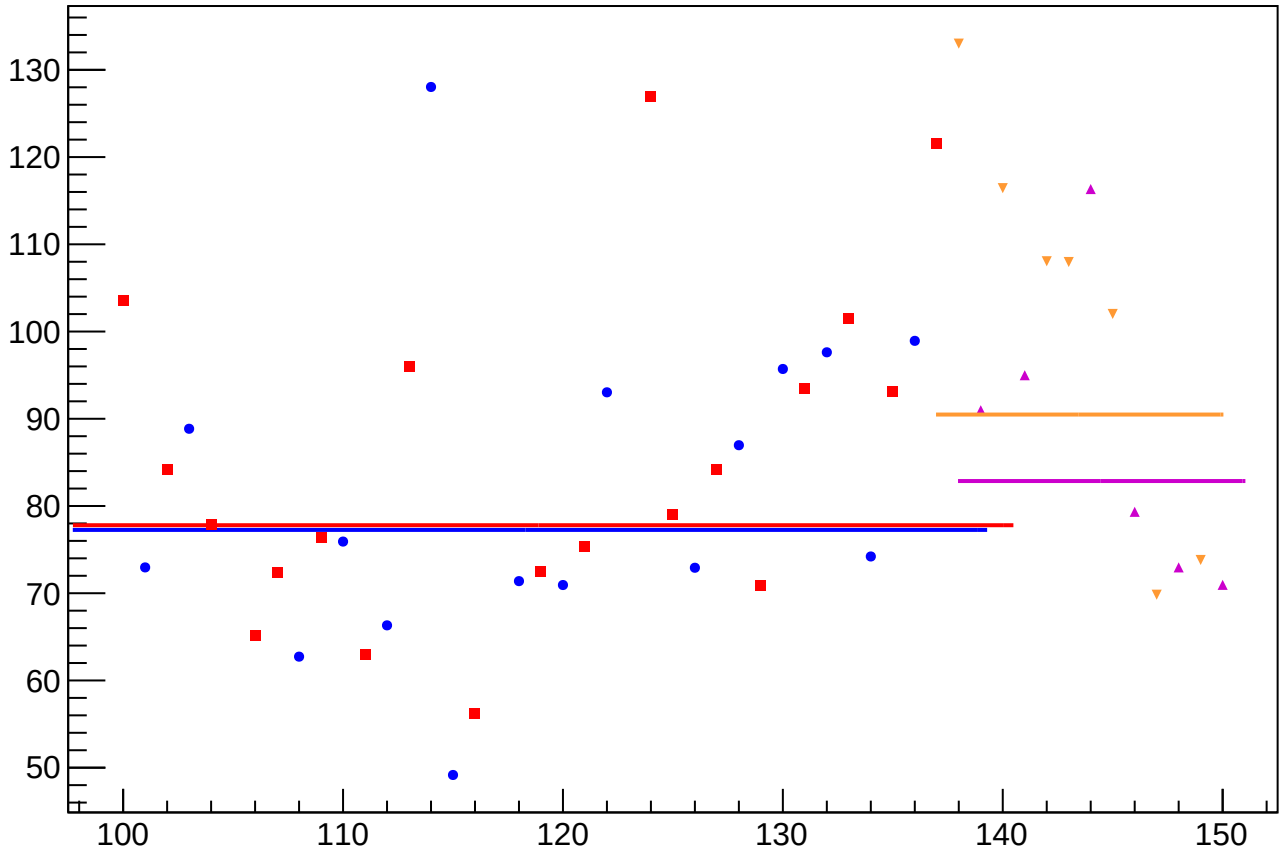
Left: -0.013+/-0.028 $\chi^2$/NDF: 20.7/12

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.019+/-0.023 $\chi^2$/NDF:30.7/21

Out: 0.016+/-0.024 $\chi^2$/NDF:32.1/25

All: -0.002+/-0.017 $\chi^2$/NDF: 63.9/47




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 90.484+/-0.029 $\chi^2$/NDF:535327.4/6

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 82.862+/-0.026 $\chi^2$/NDF:267762.3/5

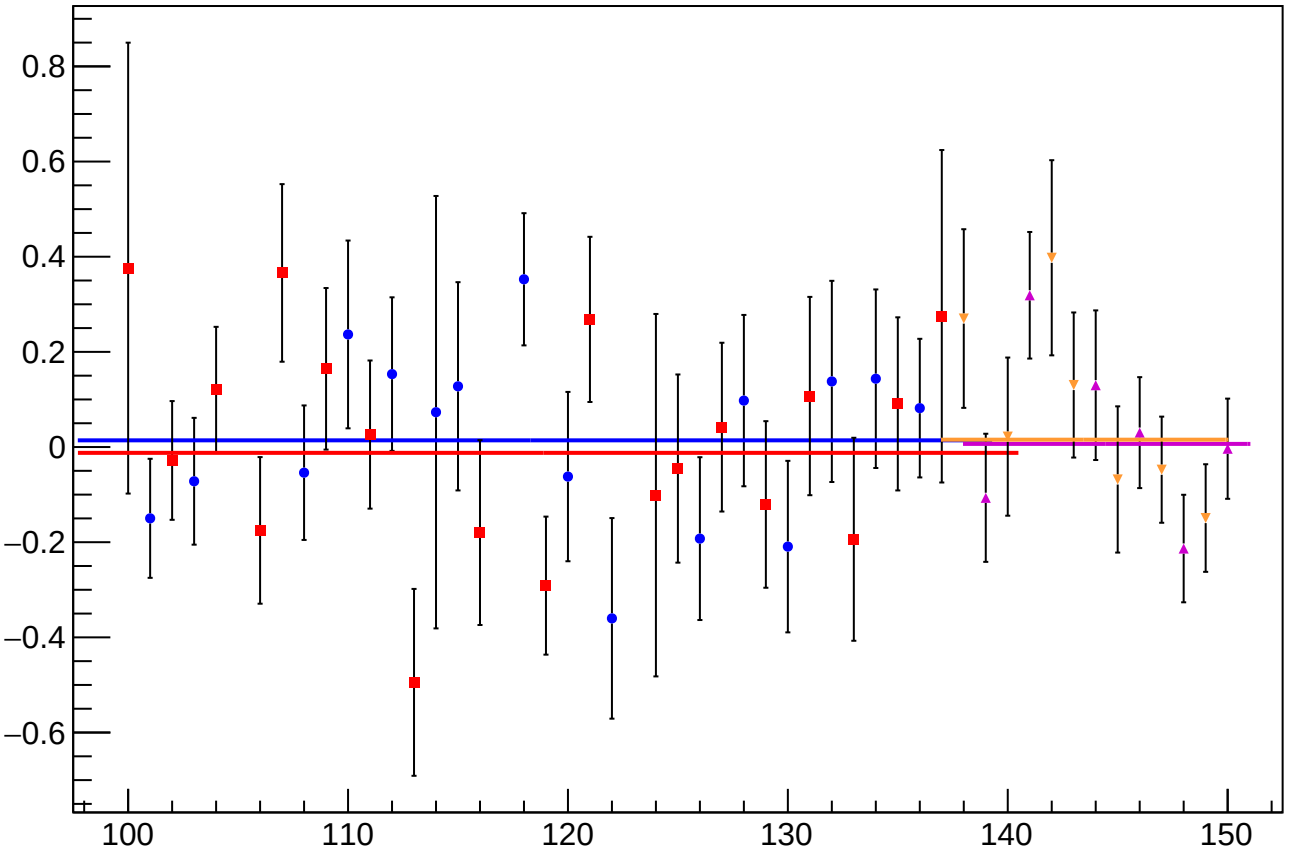
Left: 86.304+/-0.019 $\chi^2$/NDF: 840930.4/12

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 79.469+/-0.017 $\chi^2$/NDF:714474.2/21

Out: 82.162+/-0.017 $\chi^2$/NDF:1057202.3/25

All: 80.777+/-0.012 $\chi^2$/NDF: 1784562.0/47




Right In: 0.014+/-0.042 $\chi^2$/NDF: 18.2/15

Left Out: 0.015+/-0.055 $\chi^2$/NDF:8.6/6

Right Out: -0.012+/-0.041 $\chi^2$/NDF: 23.8/18

Left In: 0.007+/-0.050 $\chi^2$/NDF:10.7/5

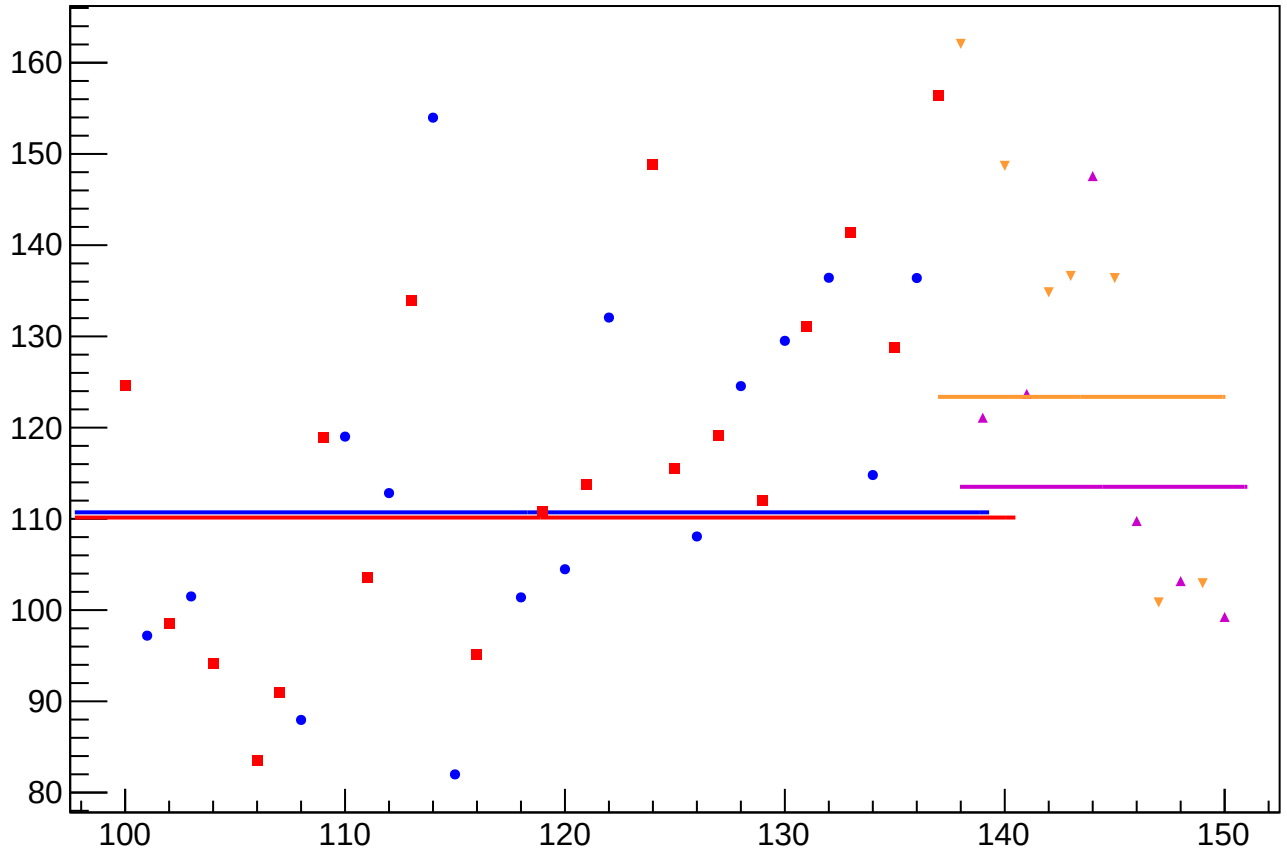
Left: 0.011+/-0.037 $\chi^2$/NDF: 19.3/12

Right: 0.001+/-0.030 $\chi^2$/NDF: 42.1/34

In: 0.011+/-0.032 $\chi^2$/NDF:28.9/21

Out: -0.002+/-0.033 $\chi^2$/NDF:32.5/25

All: 0.005+/-0.023 $\chi^2$/NDF: 61.5/47




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299972.8/15

Left Out: 123.372+/-0.039 $\chi^2$/NDF:314000.3/6

Right Out: 110.145+/-0.029 $\chi^2$/NDF: 326726.5/18

Left In: 113.514+/-0.036 $\chi^2$/NDF:167427.8/5

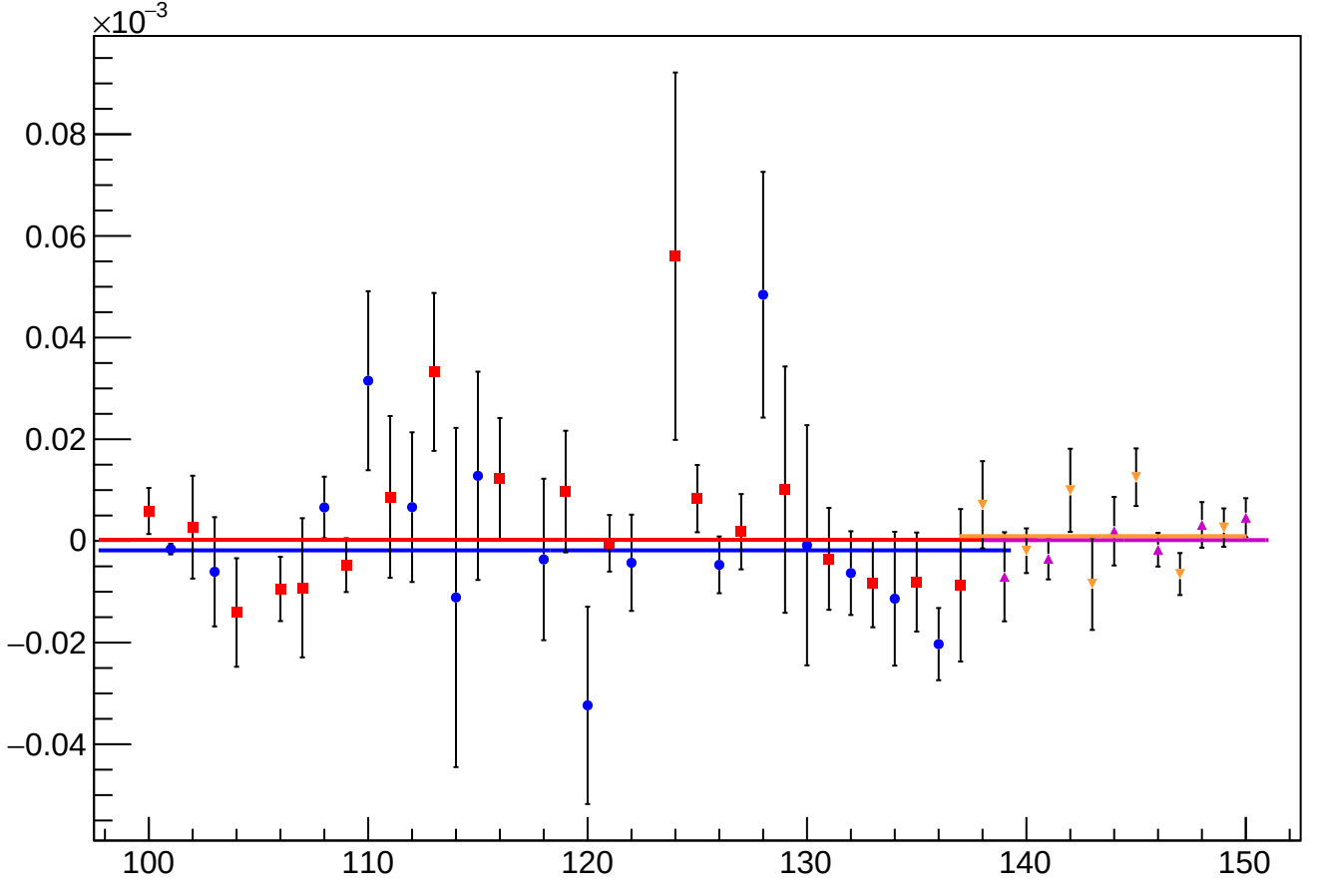
Left: 118.023+/-0.026 $\chi^2$/NDF: 516471.8/12

Right: 110.423+/-0.021 $\chi^2$/NDF: 626885.1/34

In: 111.871+/-0.023 $\chi^2$/NDF:471025.6/21

Out: 114.932+/-0.023 $\chi^2$/NDF:714922.9/25

All: 113.372+/-0.016 $\chi^2$/NDF: 1194711.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.6/5

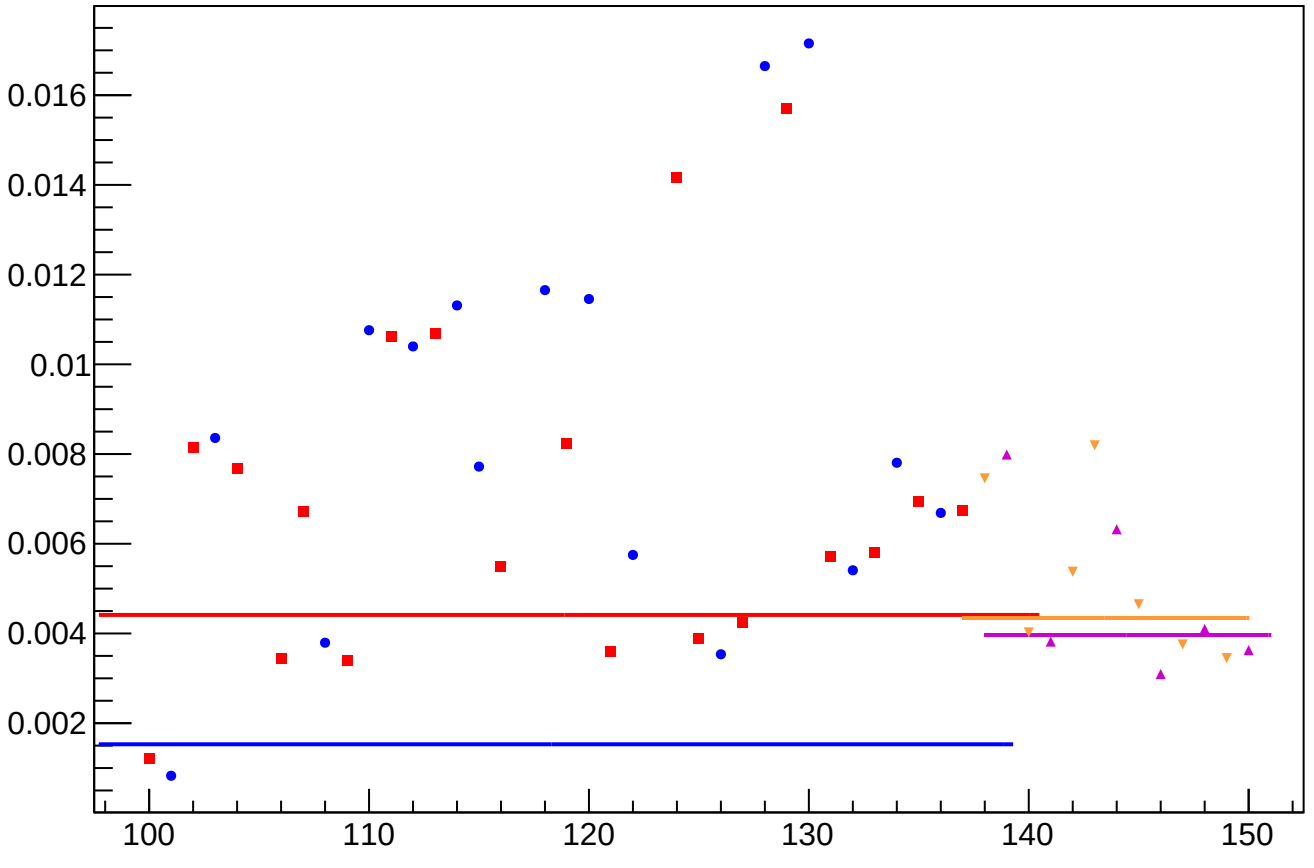
Left: 0.000+/-0.000 $\chi^2$/NDF: 14.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 58.3/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 9222940.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:822663.6/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3388069.5/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:824135.2/5

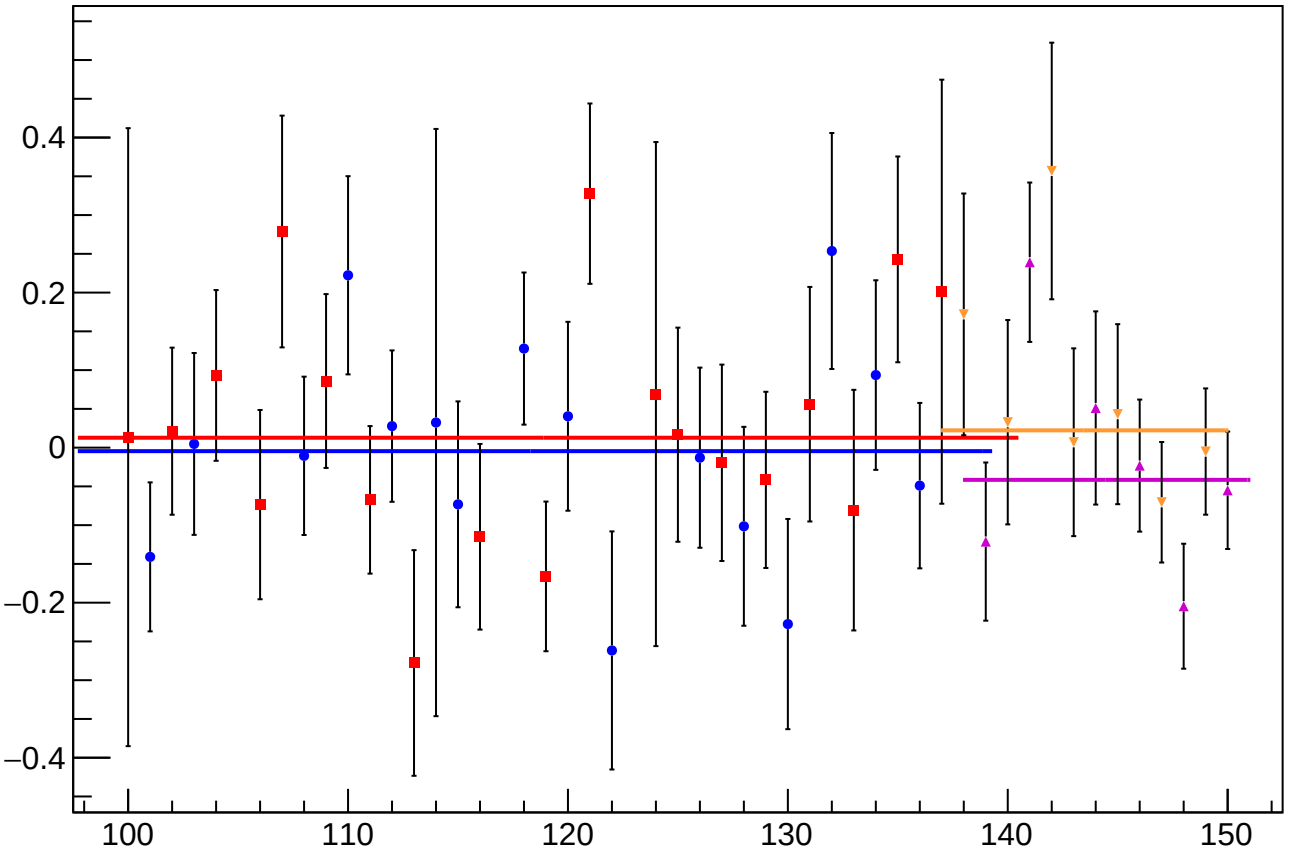
Left: 0.004+/-0.000 $\chi^2$/NDF: 1686395.2/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 16183584.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:12850666.1/21

Out: 0.004+/-0.000 $\chi^2$/NDF:4211967.9/25

All: 0.003+/-0.000 $\chi^2$/NDF: 21073937.5/47




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.022+/-0.041 $\chi^2$/NDF:6.6/6

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.042+/-0.037 $\chi^2$/NDF:12.8/5

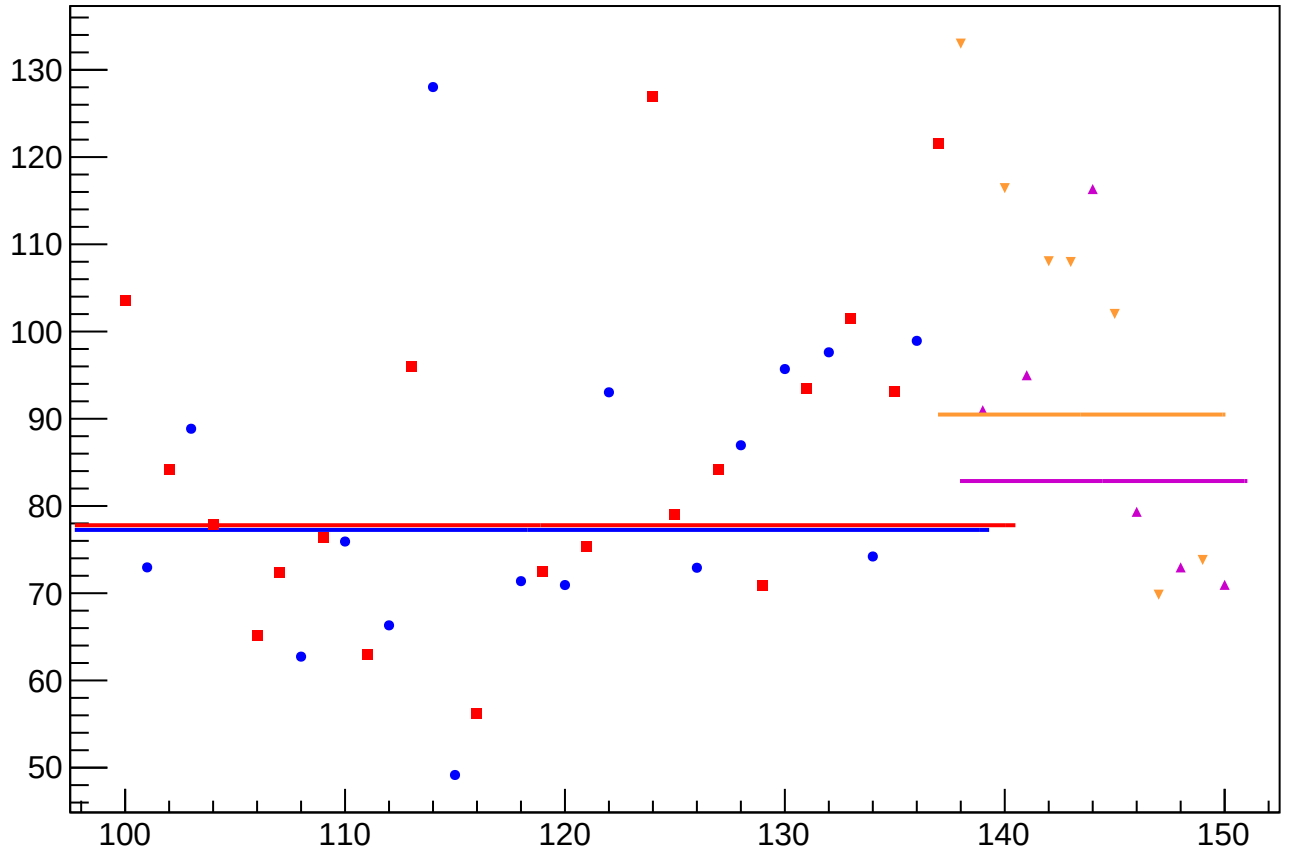
Left: -0.013+/-0.028 $\chi^2$/NDF: 20.7/12

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.019+/-0.023 $\chi^2$/NDF:30.7/21

Out: 0.016+/-0.024 $\chi^2$/NDF:32.1/25

All: -0.002+/-0.017 $\chi^2$/NDF: 63.9/47




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 90.484+/-0.029 $\chi^2$/NDF:535341.8/6

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 82.862+/-0.026 $\chi^2$/NDF:267772.5/5

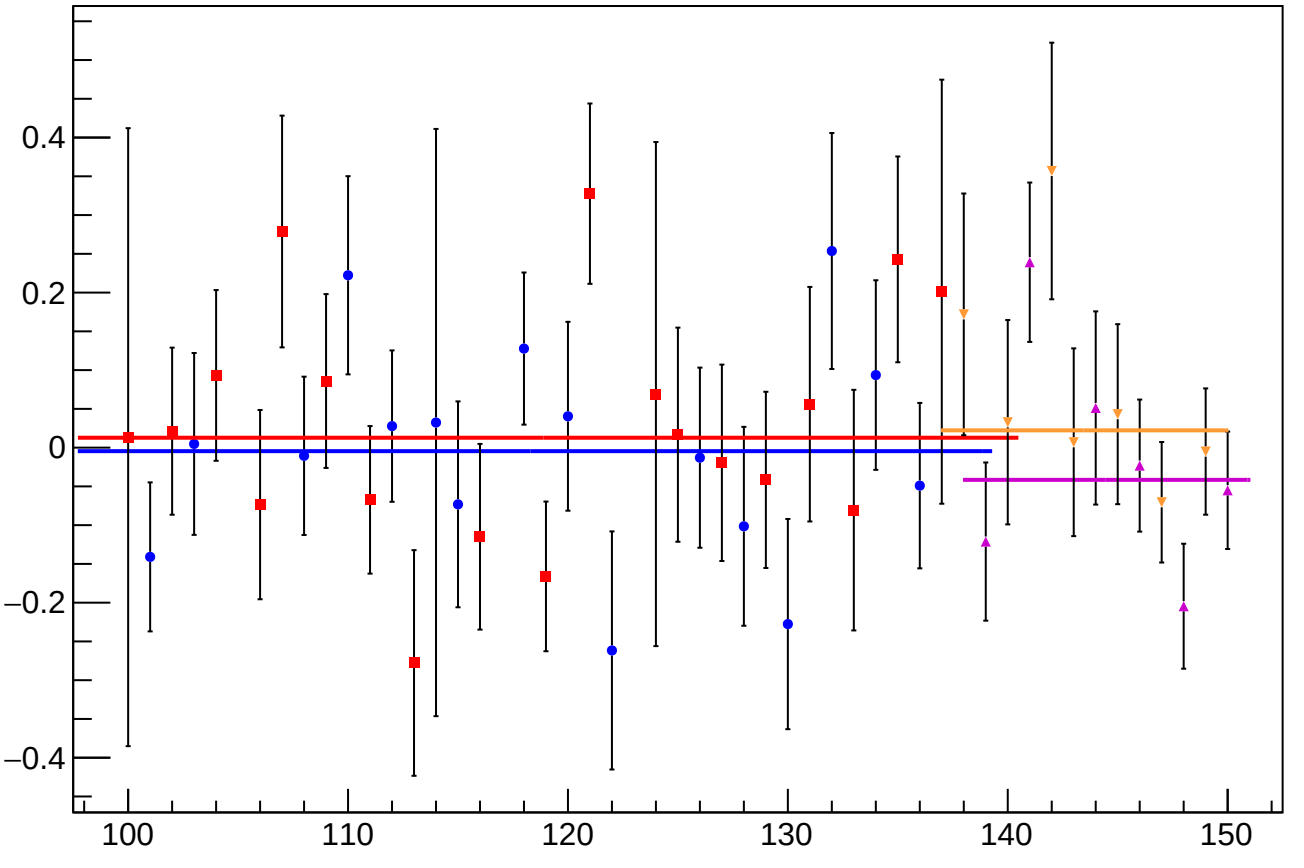
Left: 86.304+/-0.019 $\chi^2$/NDF: 840955.1/12

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 79.467+/-0.017 $\chi^2$/NDF:714486.3/21

Out: 82.161+/-0.017 $\chi^2$/NDF:1057245.8/25

All: 80.775+/-0.012 $\chi^2$/NDF: 1784616.6/47




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.022+/-0.041 $\chi^2$/NDF:6.6/6

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.042+/-0.037 $\chi^2$/NDF:12.8/5

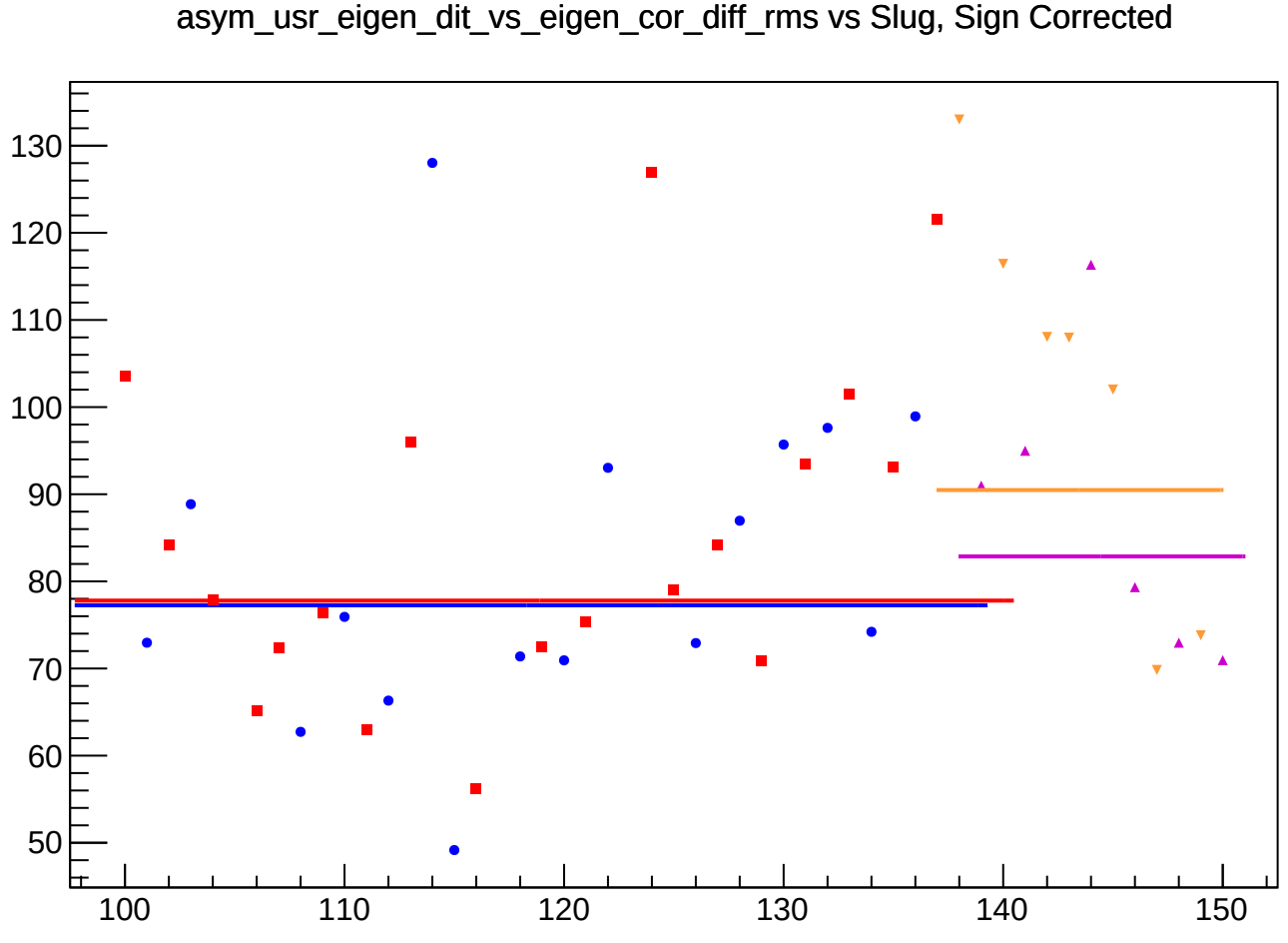
Left: -0.013+/-0.028 $\chi^2$/NDF: 20.7/12

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.019+/-0.023 $\chi^2$/NDF:30.7/21

Out: 0.016+/-0.024 $\chi^2$/NDF:32.1/25

All: -0.002+/-0.017 $\chi^2$/NDF: 63.9/47




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 90.484+/-0.029 $\chi^2$/NDF:535341.8/6

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 82.862+/-0.026 $\chi^2$/NDF:267772.5/5

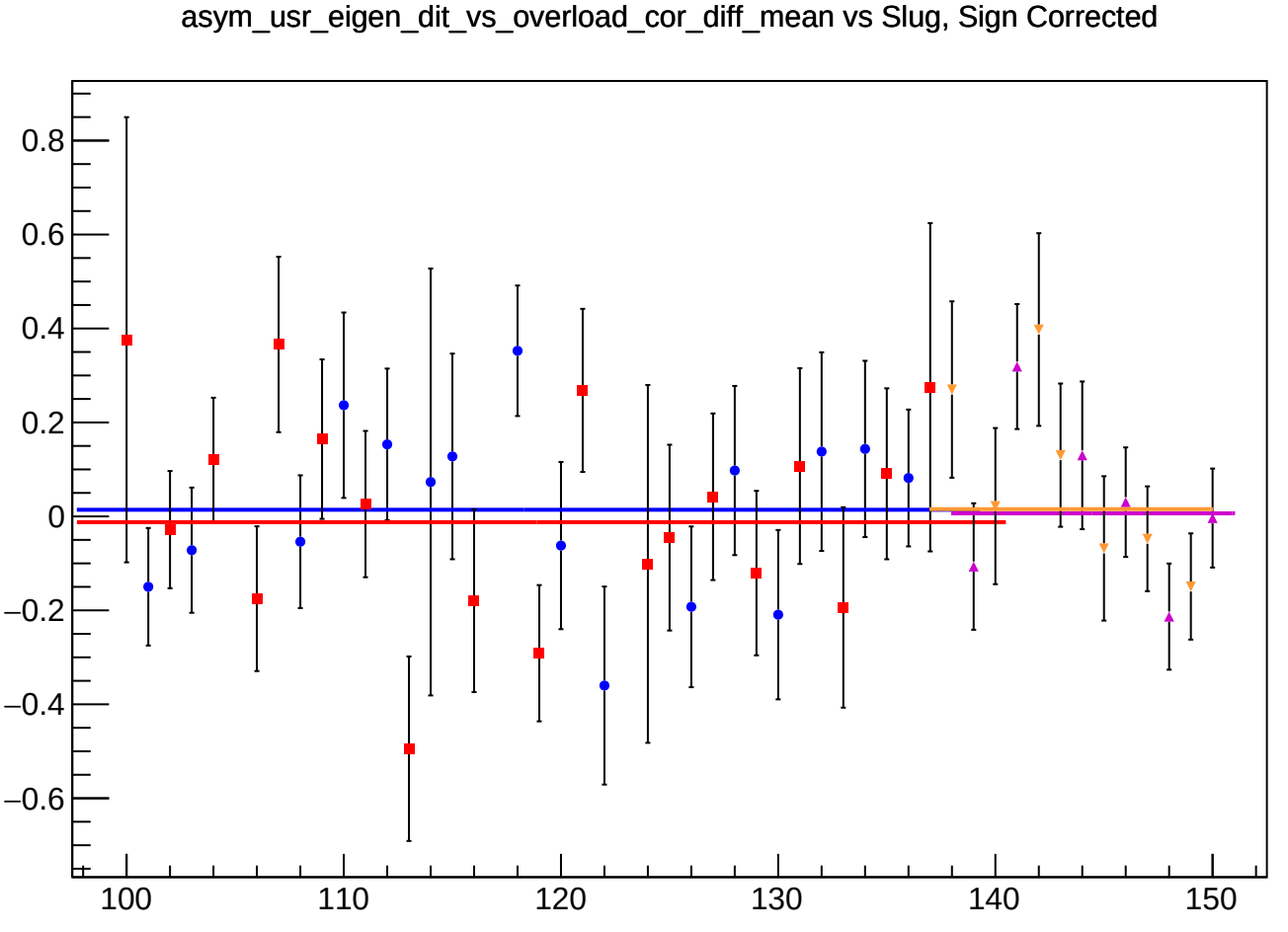
Left: 86.304+/-0.019 $\chi^2$/NDF: 840955.1/12

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 79.467+/-0.017 $\chi^2$/NDF:714486.3/21

Out: 82.161+/-0.017 $\chi^2$/NDF:1057245.8/25

All: 80.775+/-0.012 $\chi^2$/NDF: 1784616.6/47




Right In: 0.014+/-0.042 $\chi^2$/NDF: 18.2/15

Left Out: 0.015+/-0.055 $\chi^2$/NDF:8.6/6

Right Out: -0.012+/-0.041 $\chi^2$/NDF: 23.8/18

Left In: 0.007+/-0.050 $\chi^2$/NDF:10.7/5

Left: 0.011+/-0.037 $\chi^2$/NDF: 19.3/12

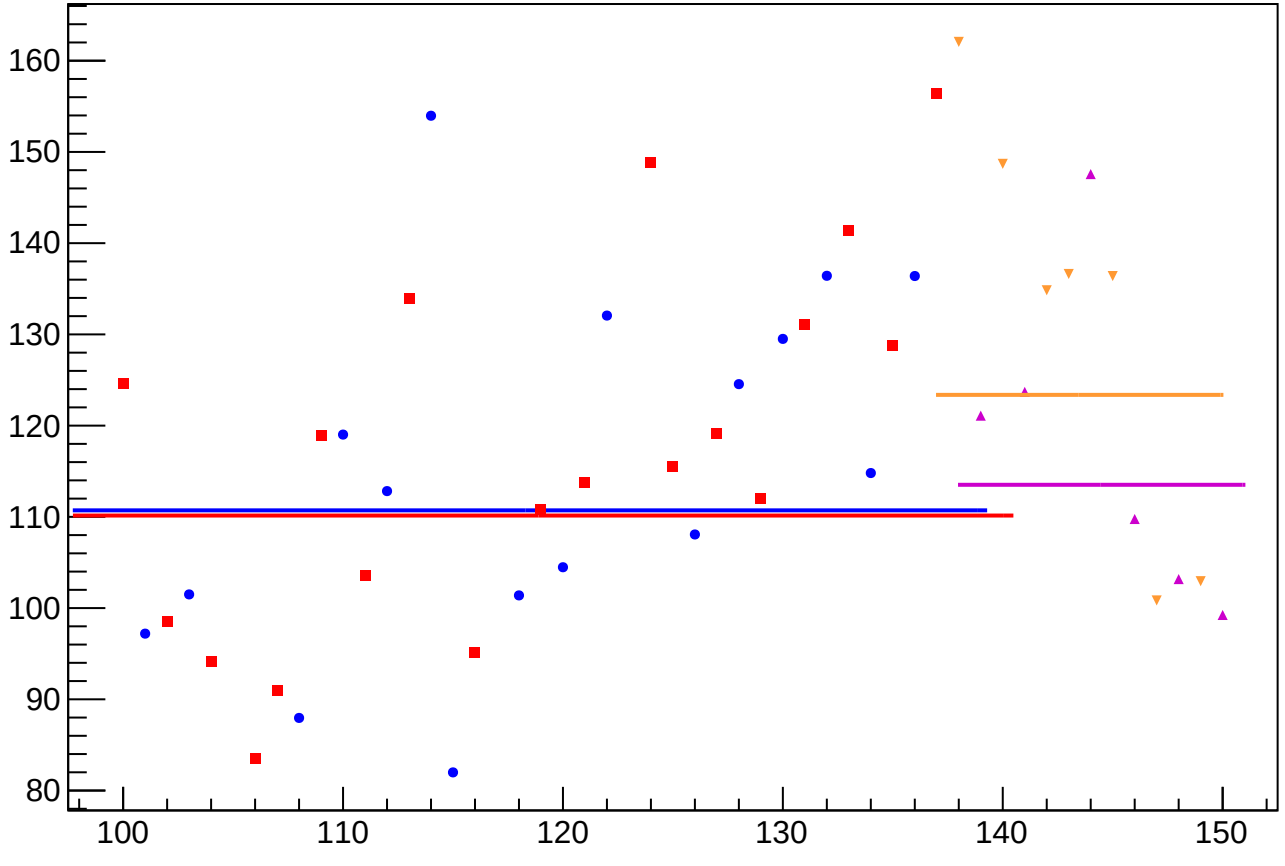
Right: 0.001+/-0.030 $\chi^2$/NDF: 42.1/34

In: 0.011+/-0.032 $\chi^2$/NDF:28.9/21

Out: -0.002+/-0.033 $\chi^2$/NDF:32.5/25

All: 0.005+/-0.023 $\chi^2$/NDF: 61.5/47

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299948.2/15

Left Out: 123.372+/-0.039 $\chi^2$/NDF:314004.5/6

Right Out: 110.144+/-0.029 $\chi^2$/NDF: 326696.7/18

Left In: 113.514+/-0.036 $\chi^2$/NDF:167432.8/5

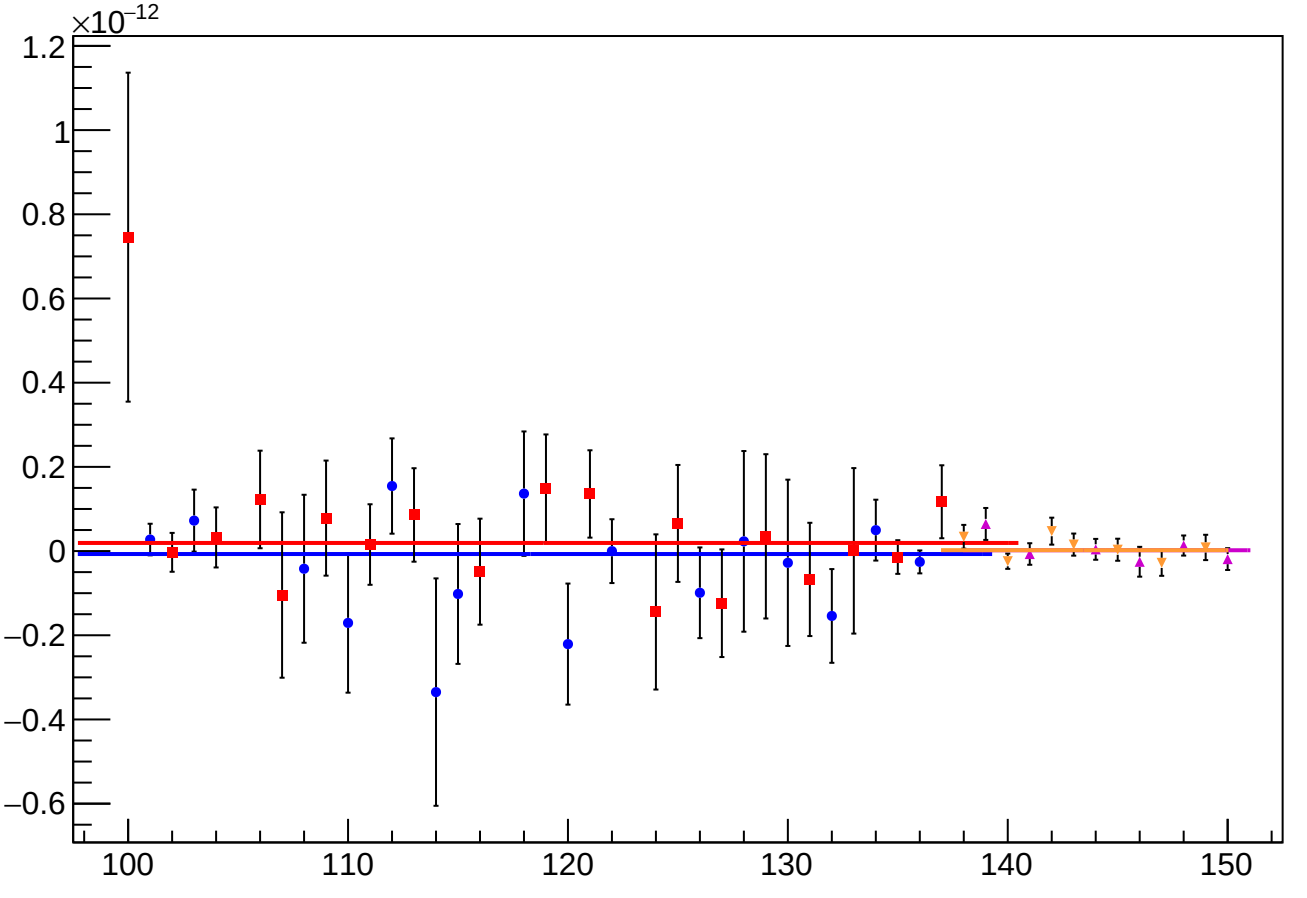
Left: 118.023+/-0.026 $\chi^2$/NDF: 516480.9/12

Right: 110.422+/-0.021 $\chi^2$/NDF: 626830.6/34

In: 111.871+/-0.023 $\chi^2$/NDF:471008.6/21

Out: 114.931+/-0.023 $\chi^2$/NDF:714906.7/25

All: 113.372+/-0.016 $\chi^2$/NDF: 1194678.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.3/5

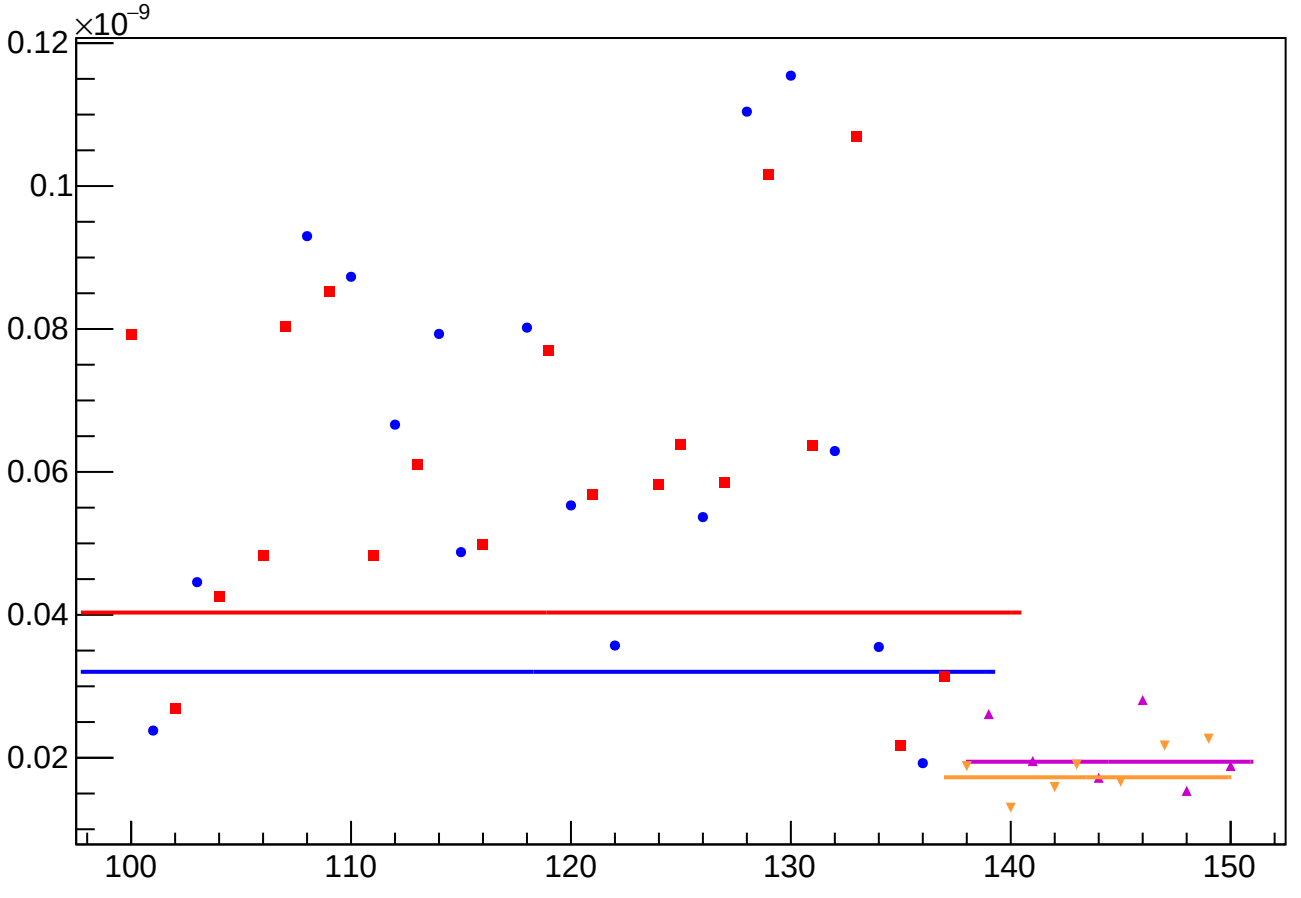
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:19.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 38.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2459312.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:236367.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1866332.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:256449.1/5

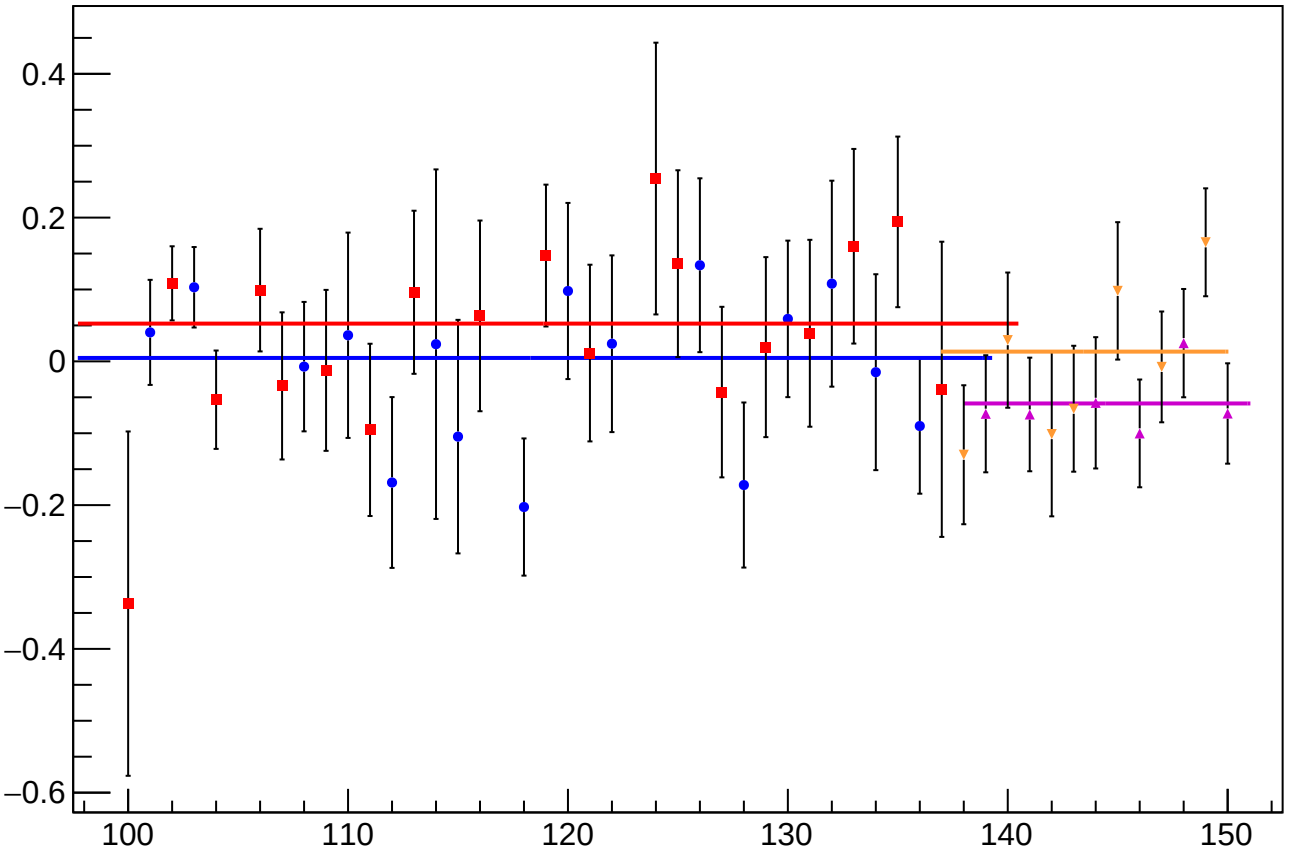
Left: 0.000+/-0.000 $\chi^2$/NDF: 535096.8/12

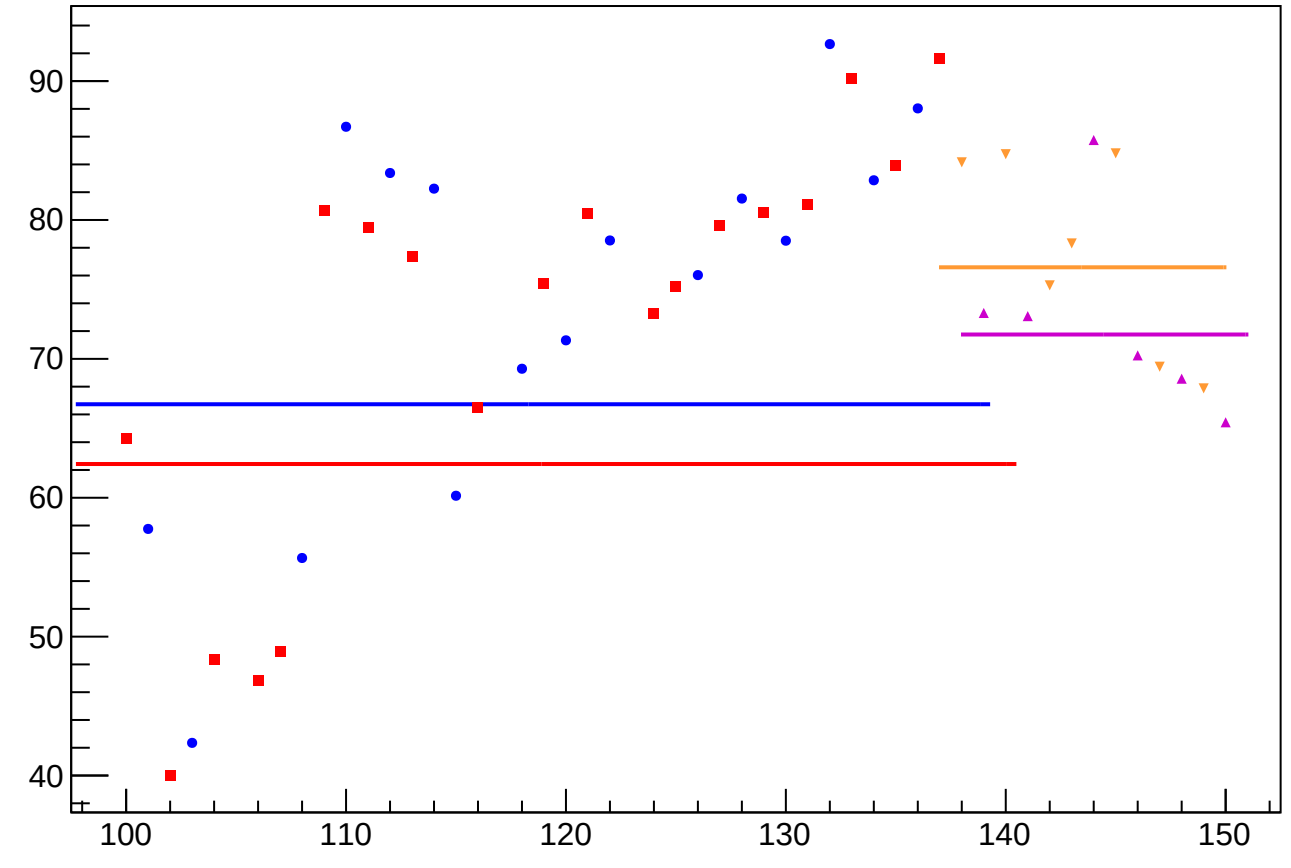
Right: 0.000+/-0.000 $\chi^2$/NDF: 4504924.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:3423033.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4060660.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7514881.8/47


asym_usr_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected
0.4
0.2
0
−0.2
−0.4
−0.6
100
110
120
130
140
150
Right In: 0.005+/-0.026 χ²/NDF: 16.6/15
Left Out: 0.014+/-0.034 χ²/NDF:9.0/6
Right Out: 0.053+/-0.024 χ²/NDF: 14.8/18
Left In: -0.059+/-0.032 χ²/NDF:1.7/5
Left: -0.025+/-0.023 χ²/NDF: 13.1/12
Right: 0.030+/-0.018 χ²/NDF: 33.2/34
In: -0.021+/-0.020 χ²/NDF:20.7/21
Out: 0.039+/-0.020 χ²/NDF:24.7/25
All: 0.010+/-0.014 χ²/NDF: 49.9/47




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 76.593+/-0.024 $\chi^2$/NDF:87205.1/6

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 71.754+/-0.022 $\chi^2$/NDF:69071.9/5

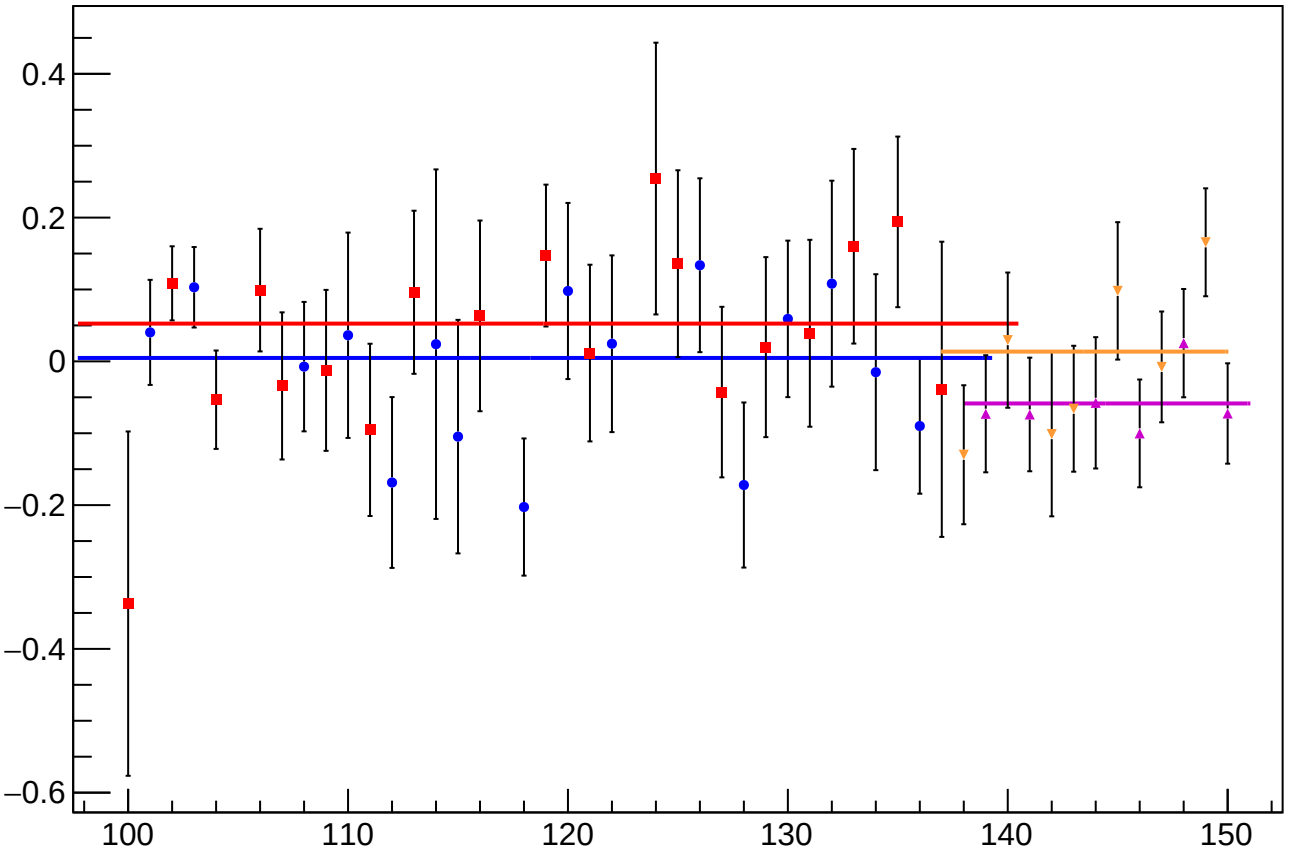
Left: 74.034+/-0.016 $\chi^2$/NDF: 178121.5/12

Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 68.736+/-0.014 $\chi^2$/NDF:915832.8/21

Out: 67.224+/-0.014 $\chi^2$/NDF:1435374.6/25

All: 67.962+/-0.010 $\chi^2$/NDF: 2357021.4/47




Right In: 0.005+/-0.026 $\chi^2$/NDF: 16.6/15

Left Out: 0.014+/-0.034 $\chi^2$/NDF:9.0/6

Right Out: 0.053+/-0.024 $\chi^2$/NDF: 14.8/18

Left In: -0.059+/-0.032 $\chi^2$/NDF:1.7/5

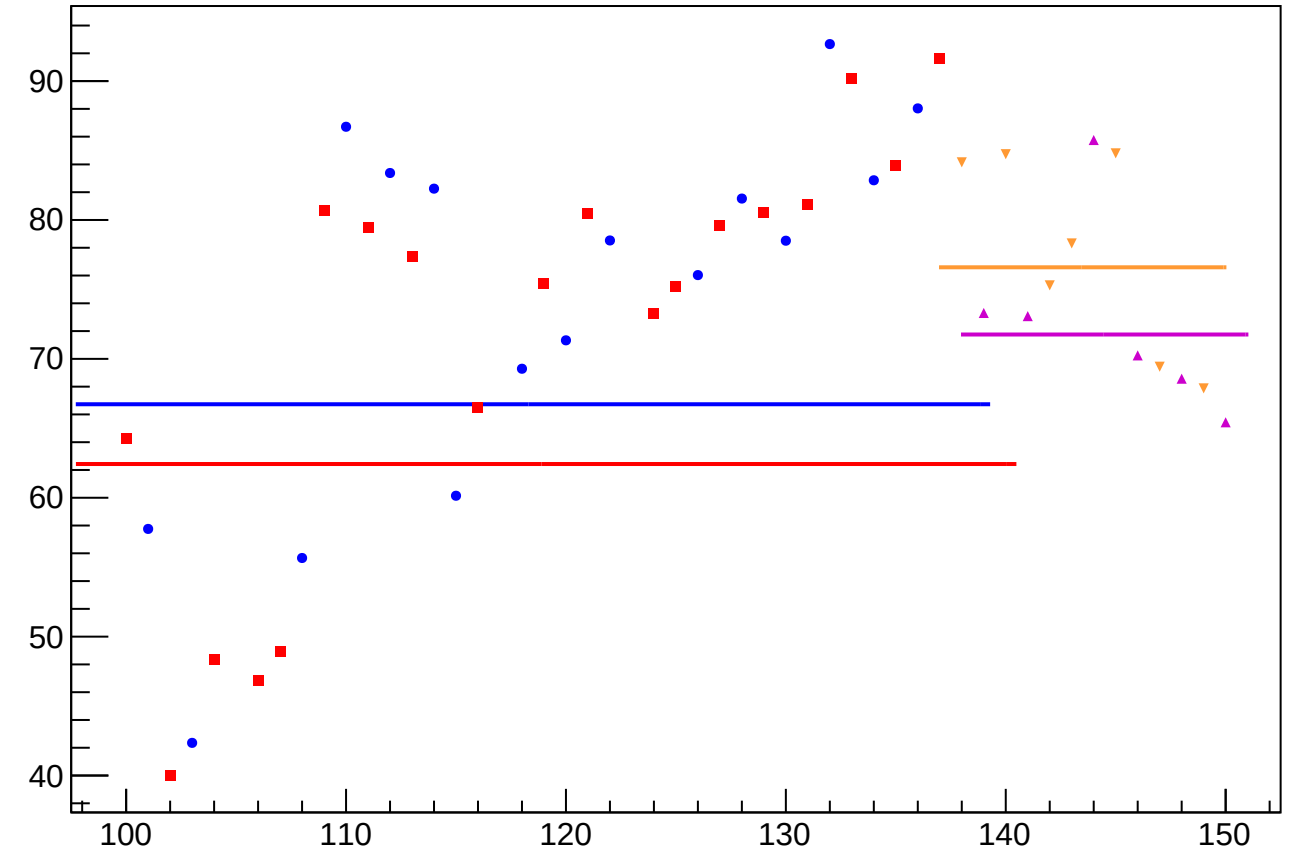
Left: -0.025+/-0.023 $\chi^2$/NDF: 13.1/12

Right: 0.030+/-0.018 $\chi^2$/NDF: 33.2/34

In: -0.021+/-0.020 $\chi^2$/NDF:20.7/21

Out: 0.039+/-0.020 $\chi^2$/NDF:24.7/25

All: 0.010+/-0.014 $\chi^2$/NDF: 49.9/47




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 76.593+/-0.024 $\chi^2$/NDF:87205.1/6

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 71.754+/-0.022 $\chi^2$/NDF:69071.9/5

Left: 74.034+/-0.016 $\chi^2$/NDF: 178121.5/12

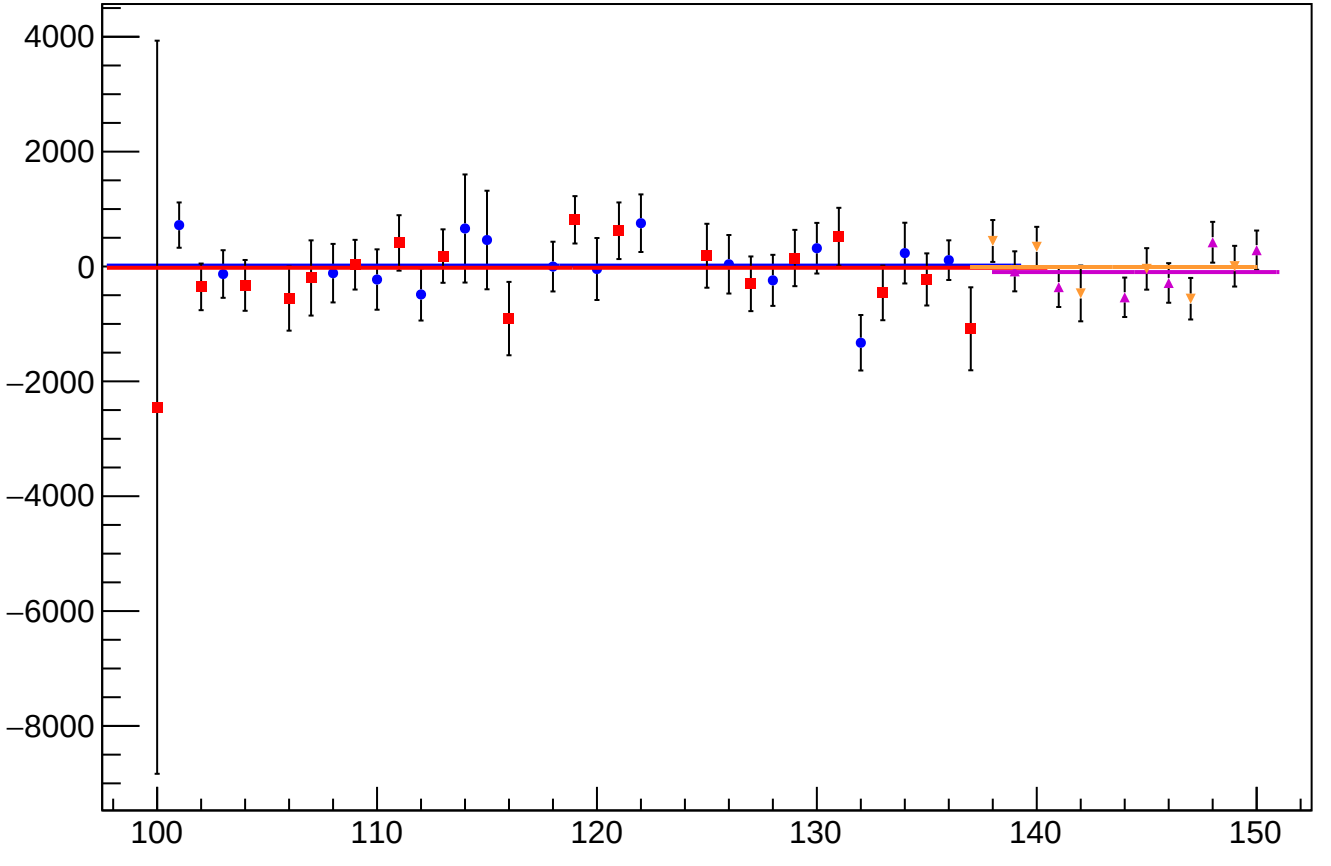
Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 68.736+/-0.014 $\chi^2$/NDF:915832.8/21

Out: 67.224+/-0.014 $\chi^2$/NDF:1435374.6/25

All: 67.962+/-0.010 $\chi^2$/NDF: 2357021.4/47

# asym_dsl_mean vs Slug, Sign Corrected




Right In: 15.517+/-119.431 $\chi^2$/NDF: 16.5/15

Left Out: -8.990+/-152.029 $\chi^2$/NDF:5.8/5

Right Out: -22.145+/-119.211 $\chi^2$/NDF: 16.0/17

Left In: -97.217+/-141.506 $\chi^2$/NDF:5.9/5

Left: -56.262+/-103.580 $\chi^2$/NDF: 11.9/11

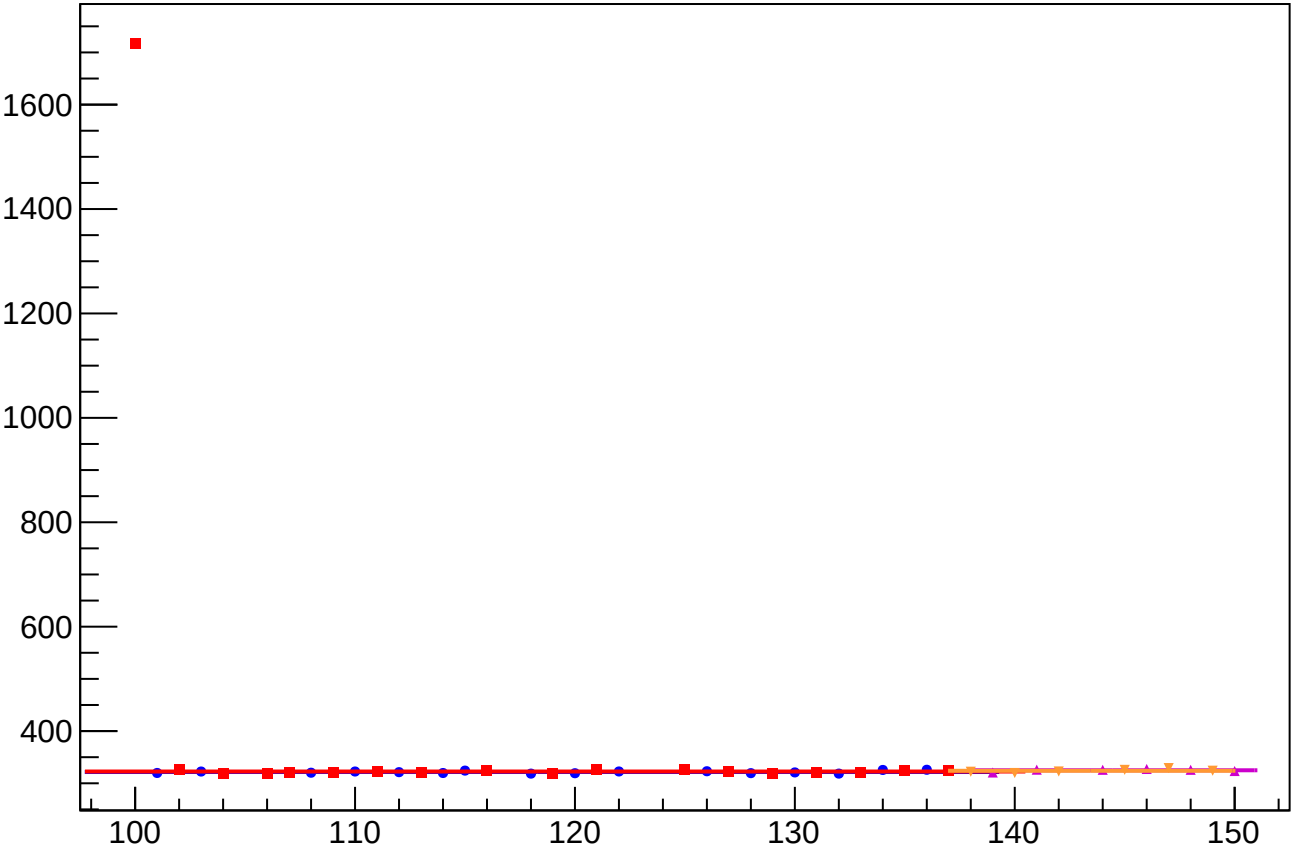
Right: -3.348+/-84.373 $\chi^2$/NDF: 32.6/33

In: -31.380+/-91.269 $\chi^2$/NDF:22.8/21

Out: -17.136+/-93.810 $\chi^2$/NDF:21.8/23

All: -24.454+/-65.417 $\chi^2$/NDF: 44.6/45

# asym_dsl_rms vs Slug, Sign Corrected




Right In: 321.604+/-0.084 $\chi^2$/NDF: 822.9/15

Left Out: 323.944+/-0.108 $\chi^2$/NDF:815.3/5

Right Out: 322.553+/-0.084 $\chi^2$/NDF: 96891.9/17

Left In: 324.929+/-0.100 $\chi^2$/NDF:488.3/5

Left: 324.472+/-0.073 $\chi^2$/NDF: 1348.5/11

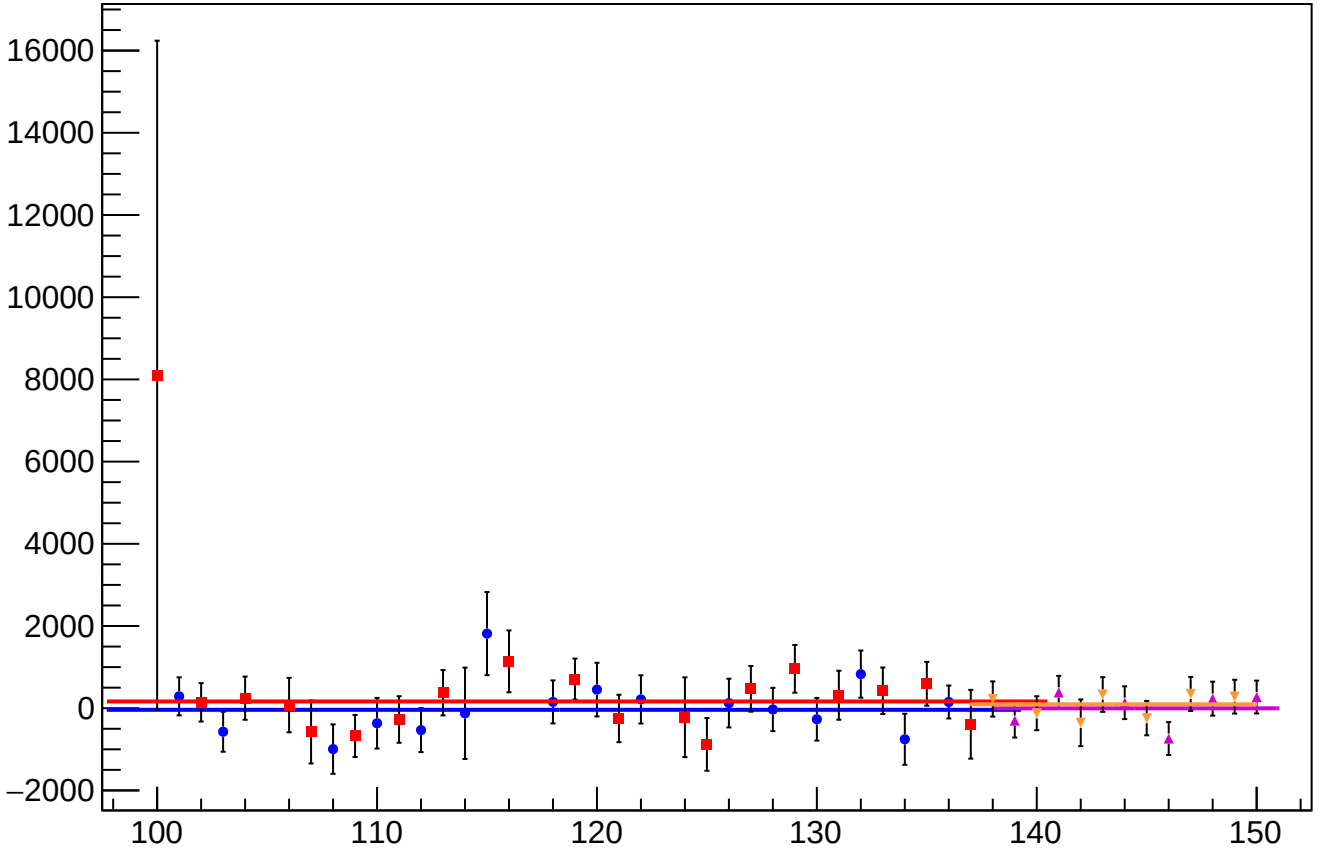
Right: 322.079+/-0.060 $\chi^2$/NDF: 97778.0/33

In: 322.987+/-0.065 $\chi^2$/NDF:1955.9/21

Out: 323.082+/-0.066 $\chi^2$/NDF:97810.9/23

All: 323.033+/-0.046 $\chi^2$/NDF: 99767.9/45

# asym_dsr_mean vs Slug, Sign Corrected




Right In: -38.914+/-140.720 $\chi^2$/NDF: 13.7/15

Left Out: 95.311+/-163.401 $\chi^2$/NDF:2.5/6

Right Out: 164.639+/-138.962 $\chi^2$/NDF: 15.1/18

Left In: -2.743+/-164.964 $\chi^2$/NDF:5.7/5

Left: 46.751+/-116.090 $\chi^2$/NDF: 8.5/12

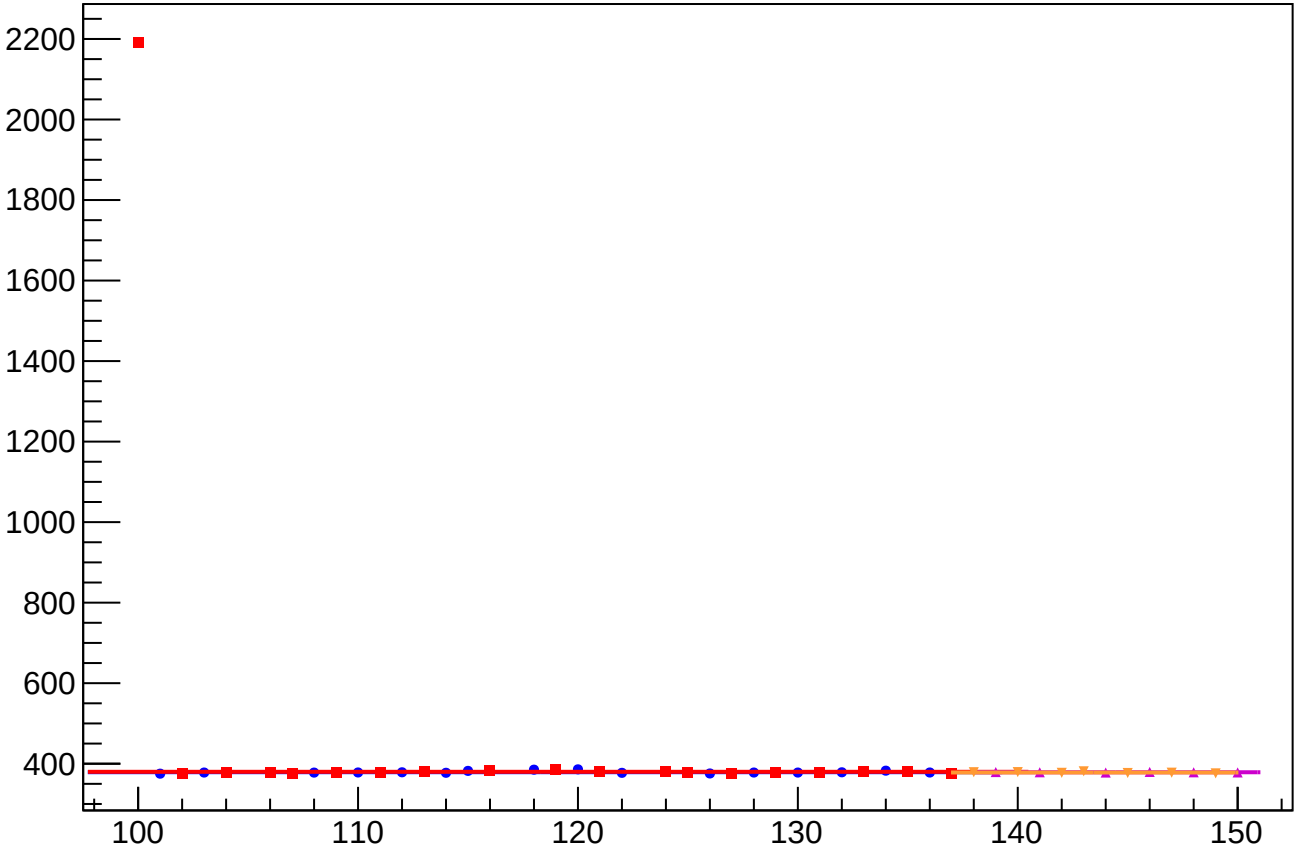
Right: 64.141+/-98.877 $\chi^2$/NDF: 29.9/34

In: -23.680+/-107.059 $\chi^2$/NDF:19.5/21

Out: 135.542+/-105.858 $\chi^2$/NDF:17.7/25

All: 56.830+/-75.274 $\chi^2$/NDF: 38.4/47

# asym_dsr_rms vs Slug, Sign Corrected




Right In: 378.910+/-0.100 $\chi^2$/NDF: 851.2/15

Left Out: 378.172+/-0.116 $\chi^2$/NDF:190.4/6

Right Out: 379.878+/-0.098 $\chi^2$/NDF: 99621.5/18

Left In: 378.776+/-0.117 $\chi^2$/NDF:19.3/5

Left: 378.471+/-0.082 $\chi^2$/NDF: 223.2/12

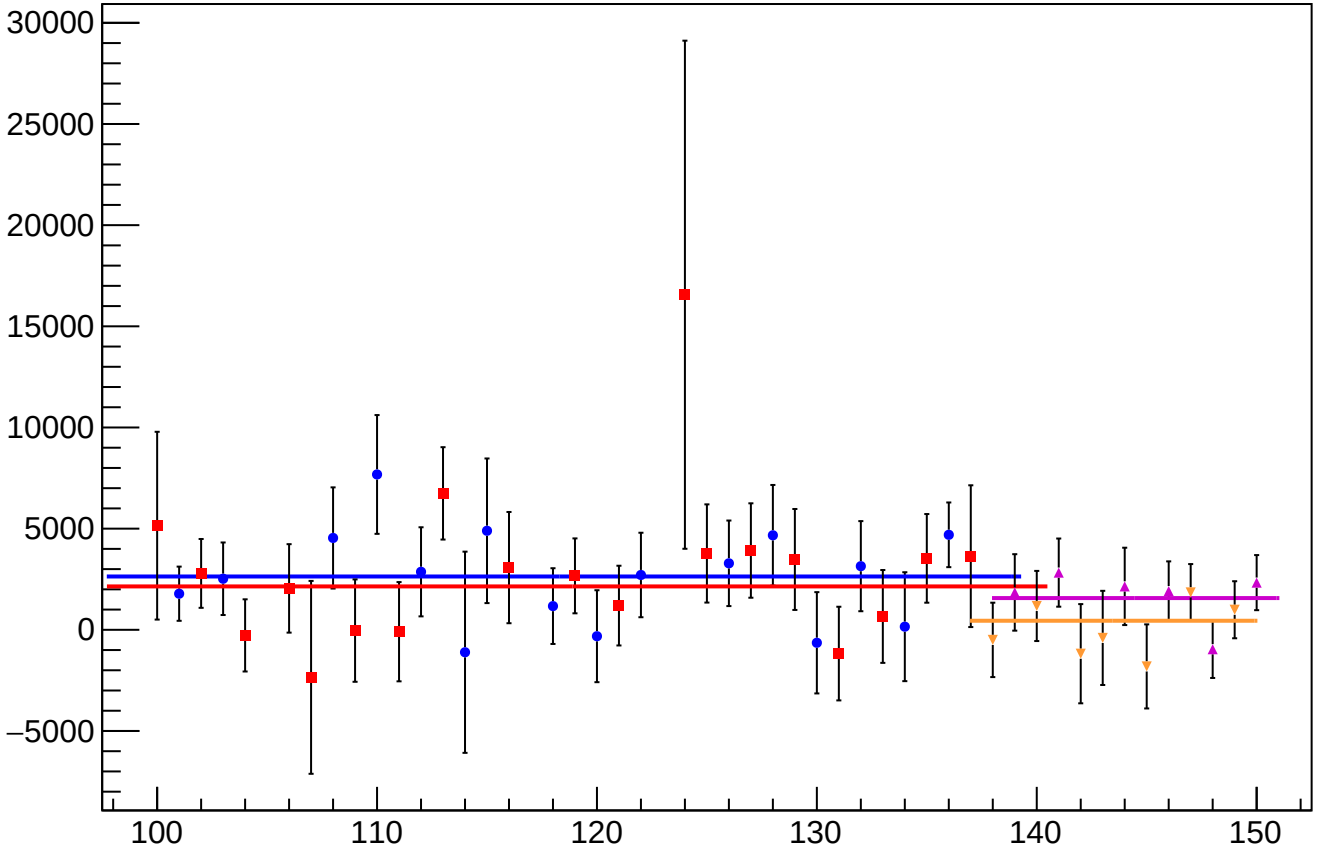
Right: 379.400+/-0.070 $\chi^2$/NDF: 100520.6/34

In: 378.854+/-0.076 $\chi^2$/NDF:871.3/21

Out: 379.162+/-0.075 $\chi^2$/NDF:99938.3/25

All: 379.010+/-0.053 $\chi^2$/NDF: 100817.9/47

# asym_us_agg_avg_mean vs Slug, Sign Corrected




Right In: 2635.397+/-538.034 $\chi^2$/NDF: 12.3/15

Left Out: 447.885+/-670.533 $\chi^2$/NDF:3.3/6

Right Out: 2144.569+/-546.963 $\chi^2$/NDF: 15.0/18

Left In: 1568.537+/-644.924 $\chi^2$/NDF:4.2/5

Left: 1030.019+/-464.820 $\chi^2$/NDF: 9.0/12

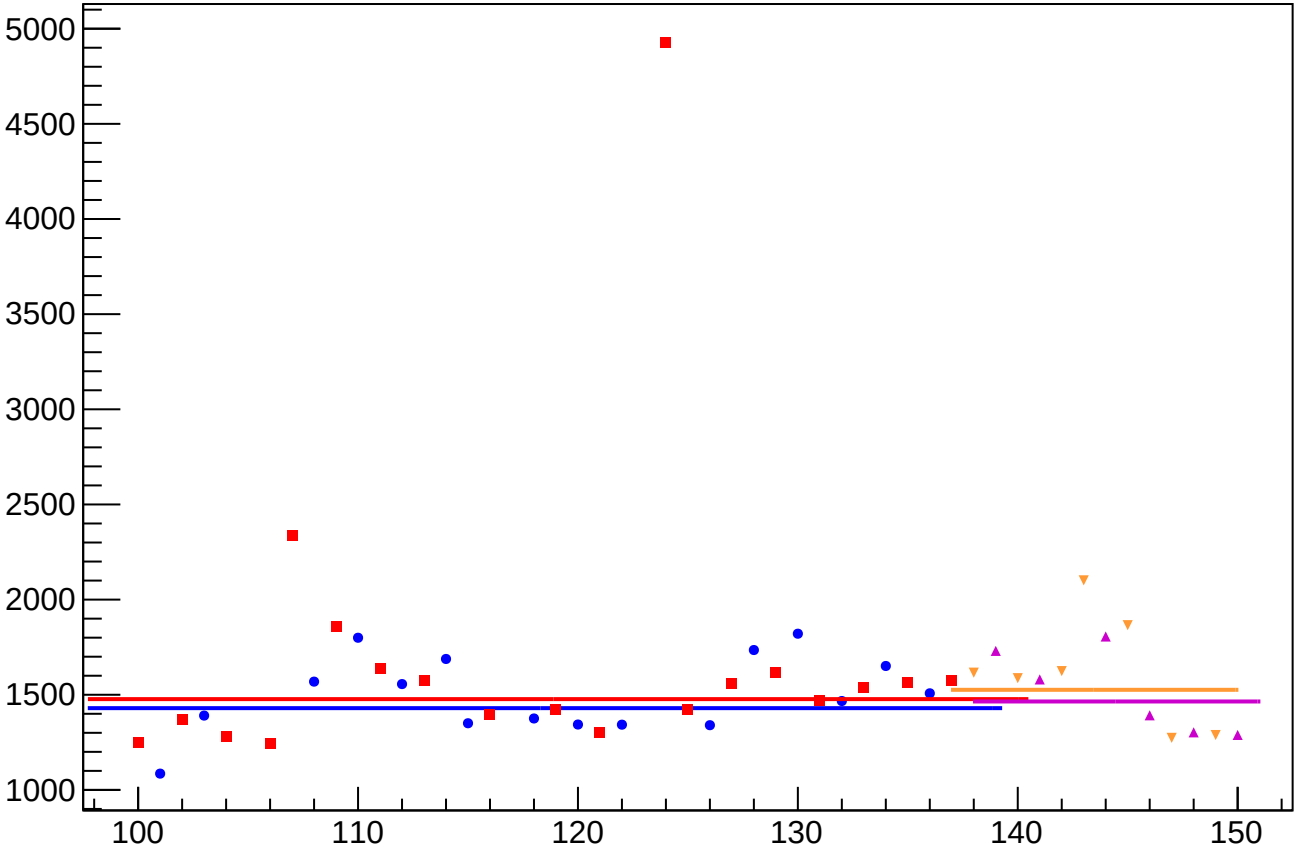
Right: 2394.022+/-383.566 $\chi^2$/NDF: 27.7/34

In: 2197.585+/-413.141 $\chi^2$/NDF:18.1/21

Out: 1466.676+/-423.838 $\chi^2$/NDF:22.2/25

All: 1841.471+/-295.844 $\chi^2$/NDF: 41.8/47

# asym_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 1429.654+/-0.380 $\chi^2$/NDF: 293388.5/15

Left Out: 1526.016+/-0.474 $\chi^2$/NDF:307896.8/6

Right Out: 1477.126+/-0.387 $\chi^2$/NDF: 369430.6/18

Left In: 1464.692+/-0.456 $\chi^2$/NDF:177120.5/5

Left: 1494.161+/-0.329 $\chi^2$/NDF: 493707.0/12

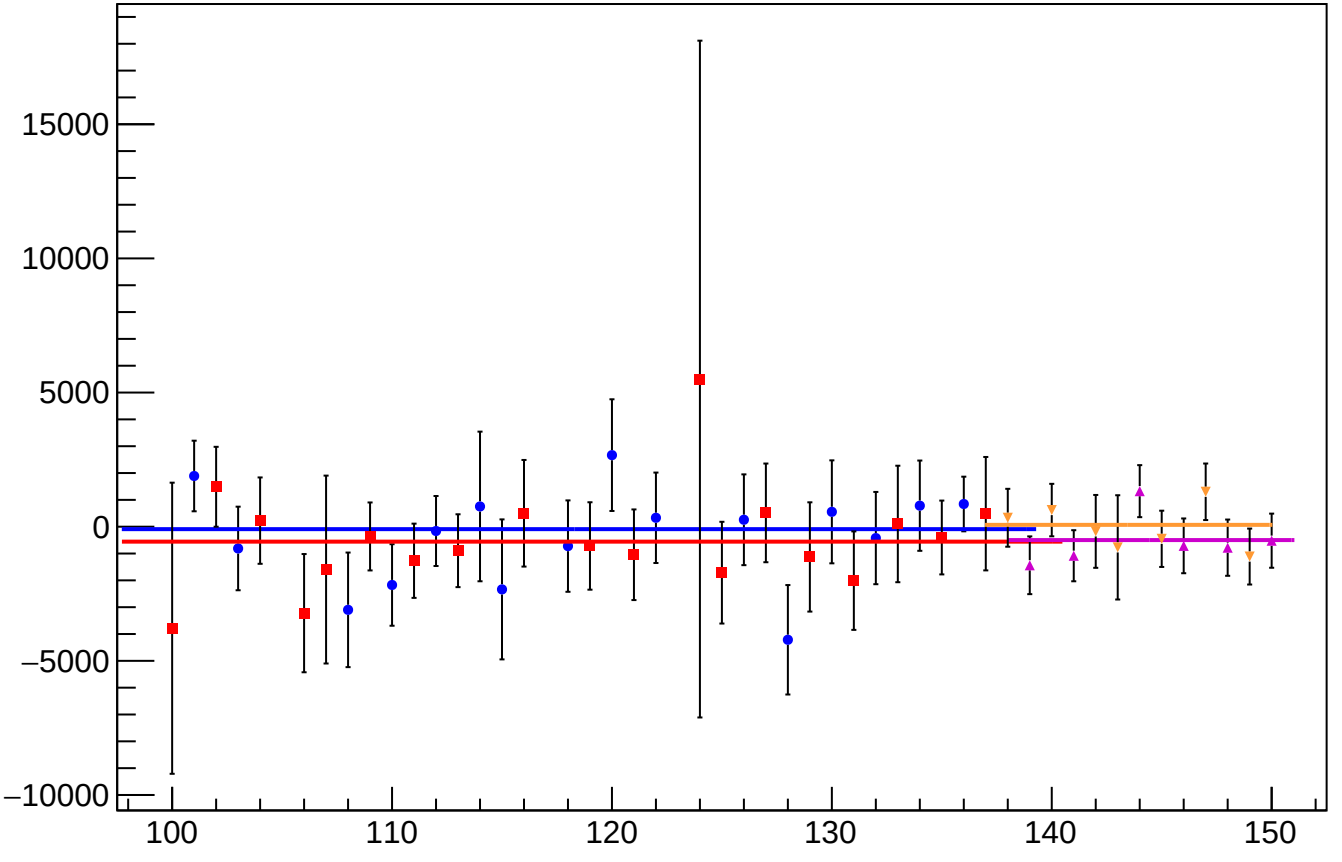
Right: 1452.999+/-0.271 $\chi^2$/NDF: 670475.8/34

In: 1444.033+/-0.292 $\chi^2$/NDF:473989.8/21

Out: 1496.660+/-0.300 $\chi^2$/NDF:683711.9/25

All: 1469.674+/-0.209 $\chi^2$/NDF: 1173513.2/47

# asym_us_agg_dd_mean vs Slug, Sign Corrected




Right In: -91.305+/-409.957 $\chi^2$/NDF: 14.5/15

Left Out: 68.429+/-428.611 $\chi^2$/NDF:3.5/6

Right Out: -556.840+/-411.346 $\chi^2$/NDF: 6.8/18

Left In: -498.688+/-412.306 $\chi^2$/NDF:4.8/5

Left: -226.121+/-297.141 $\chi^2$/NDF: 9.2/12

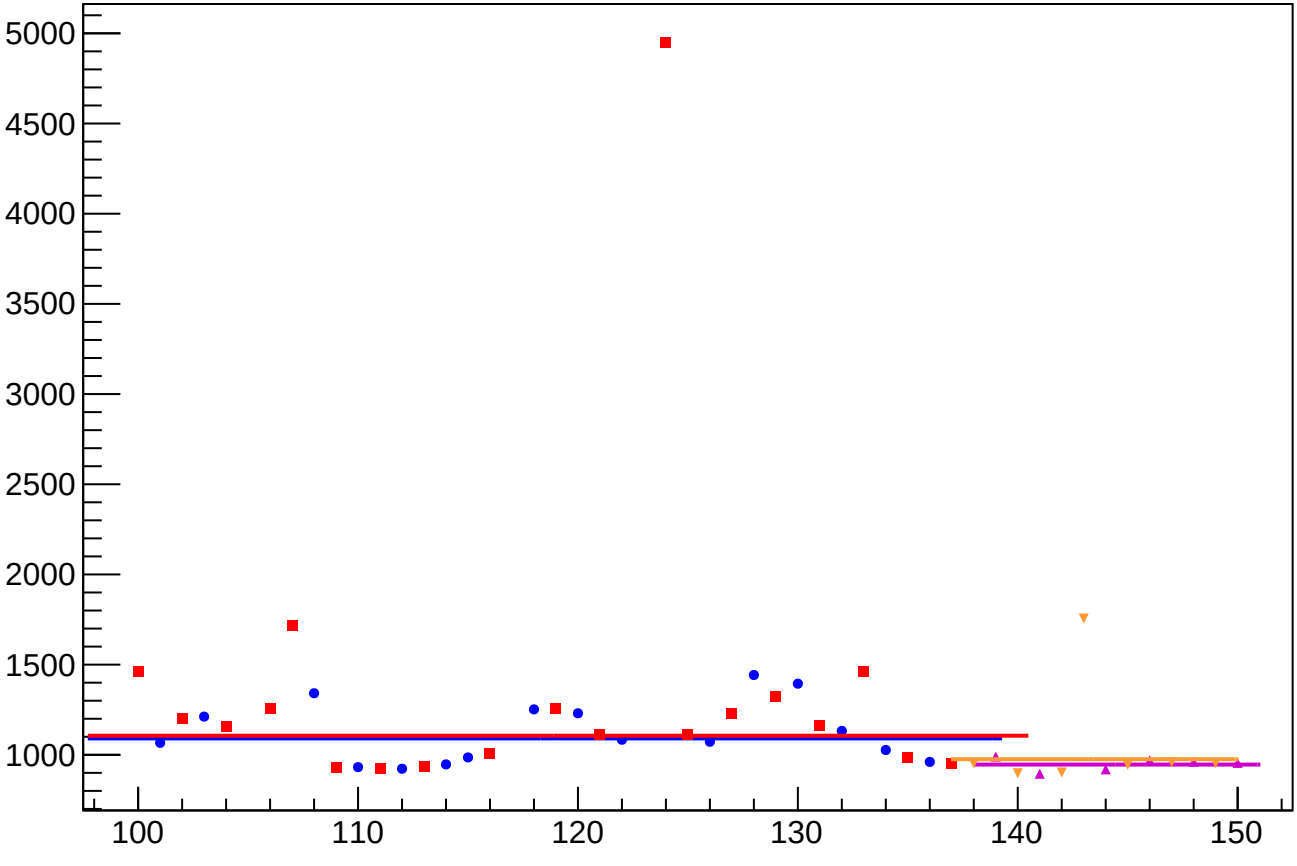
Right: -323.285+/-290.373 $\chi^2$/NDF: 21.9/34

In: -293.832+/-290.710 $\chi^2$/NDF:19.8/21

Out: -257.052+/-296.781 $\chi^2$/NDF:11.4/25

All: -275.822+/-207.676 $\chi^2$/NDF: 31.2/47

# asym_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 1091.041+/-0.290 $\chi^2$/NDF: 277304.9/15

Left Out: 975.611+/-0.303 $\chi^2$/NDF:345012.1/6

Right Out: 1106.046+/-0.291 $\chi^2$/NDF: 514097.9/18

Left In: 946.025+/-0.292 $\chi^2$/NDF:12140.2/5

Left: 960.245+/-0.210 $\chi^2$/NDF: 362101.7/12

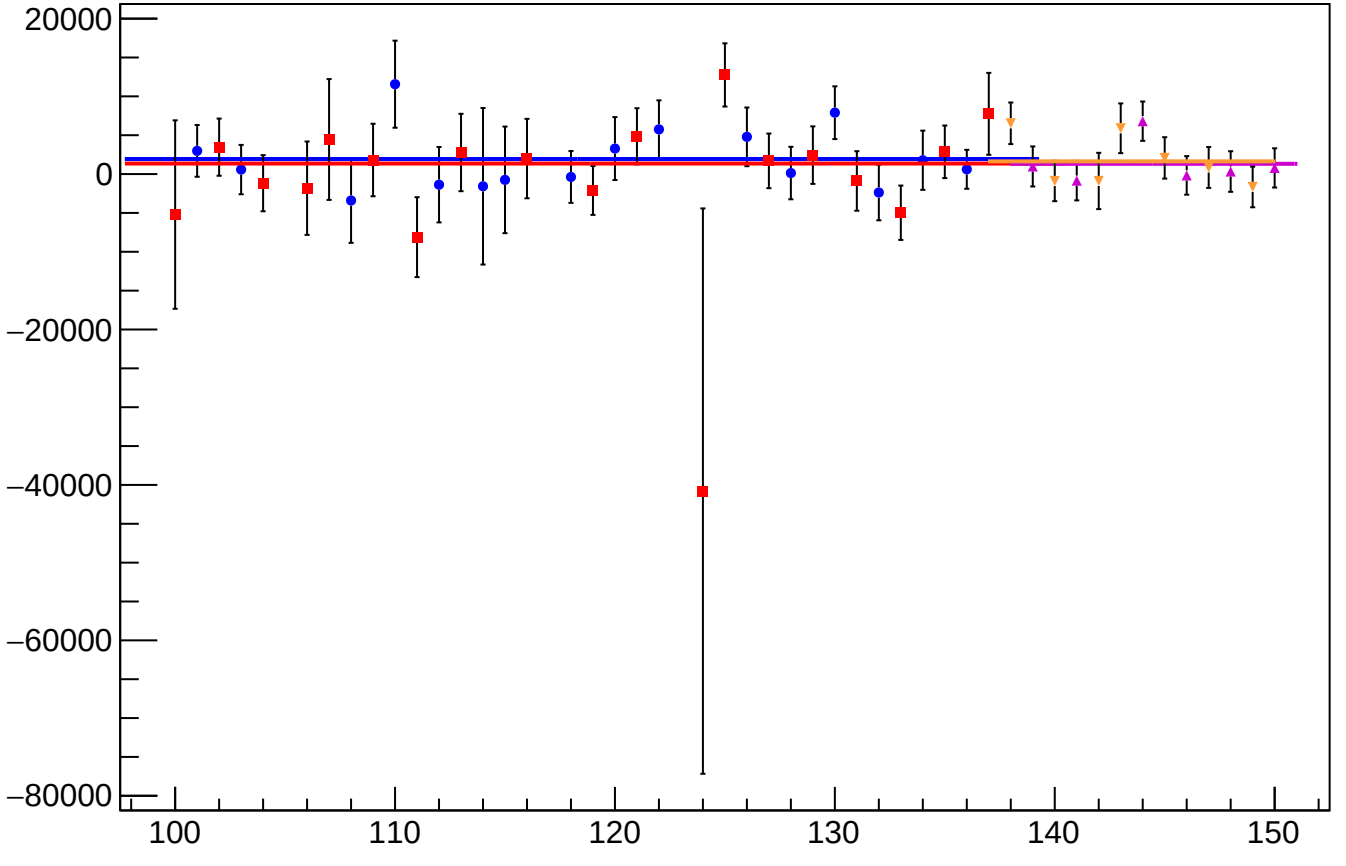
Right: 1098.518+/-0.205 $\chi^2$/NDF: 792737.9/34

In: 1018.947+/-0.206 $\chi^2$/NDF:413858.0/21

Out: 1043.508+/-0.210 $\chi^2$/NDF:955526.8/25

All: 1030.974+/-0.147 $\chi^2$/NDF: 1376375.2/47

# reg_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1939.656+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1636.537+/-1058.077 $\chi^2$/NDF:8.2/6

Right Out: 1353.428+/-985.119 $\chi^2$/NDF: 21.8/18

Left In: 1319.141+/-1038.281 $\chi^2$/NDF:6.0/5

Left: 1474.842+/-741.075 $\chi^2$/NDF: 14.3/12

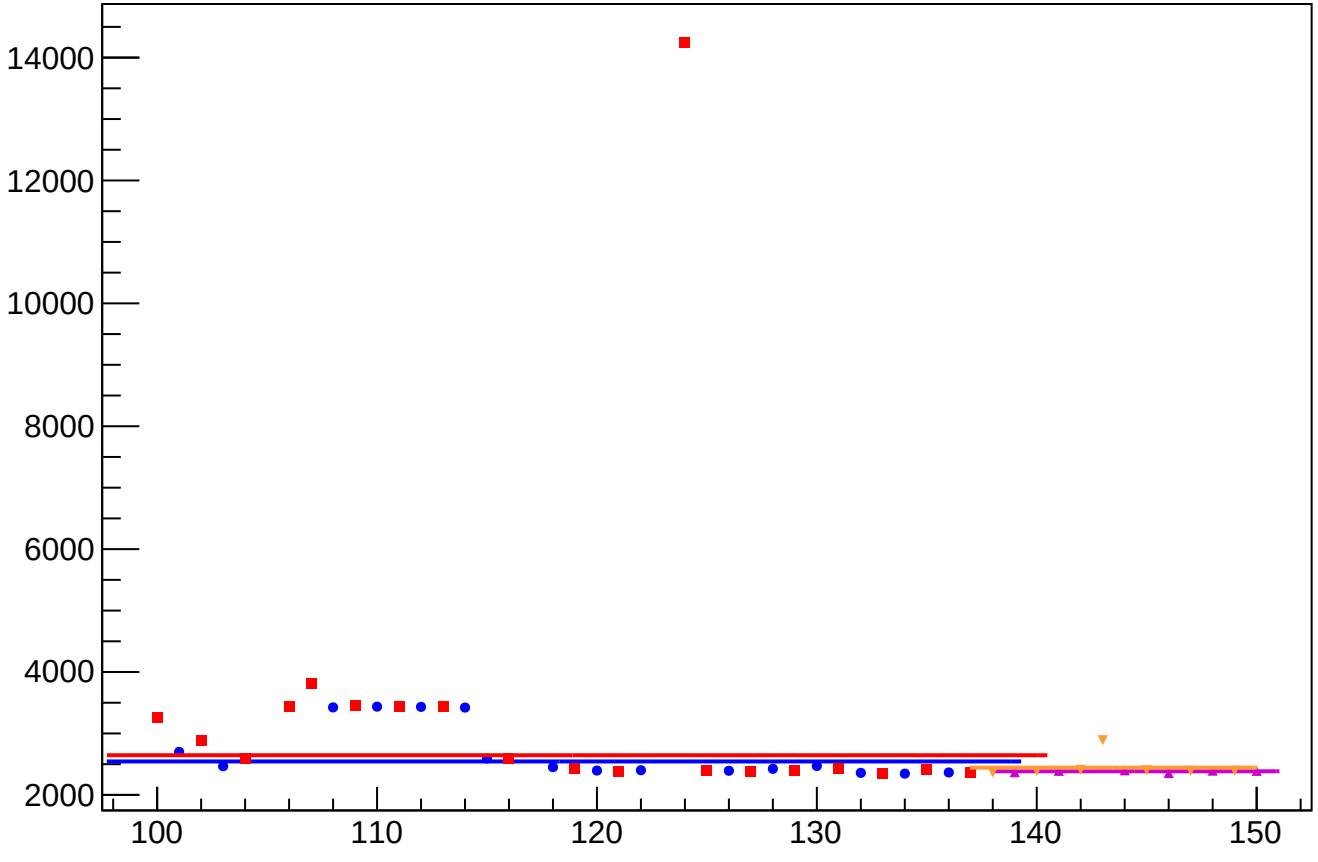
Right: 1656.397+/-684.775 $\chi^2$/NDF: 34.2/34

In: 1656.074+/-701.904 $\chi^2$/NDF:18.4/21

Out: 1484.886+/-720.998 $\chi^2$/NDF:30.1/25

All: 1572.777+/-502.936 $\chi^2$/NDF: 48.5/47

# reg_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2443.906+/-0.748 $\chi^2$/NDF:43990.9/6

Right Out: 2645.647+/-0.697 $\chi^2$/NDF: 536965.2/18

Left In: 2384.111+/-0.734 $\chi^2$/NDF:459.2/5

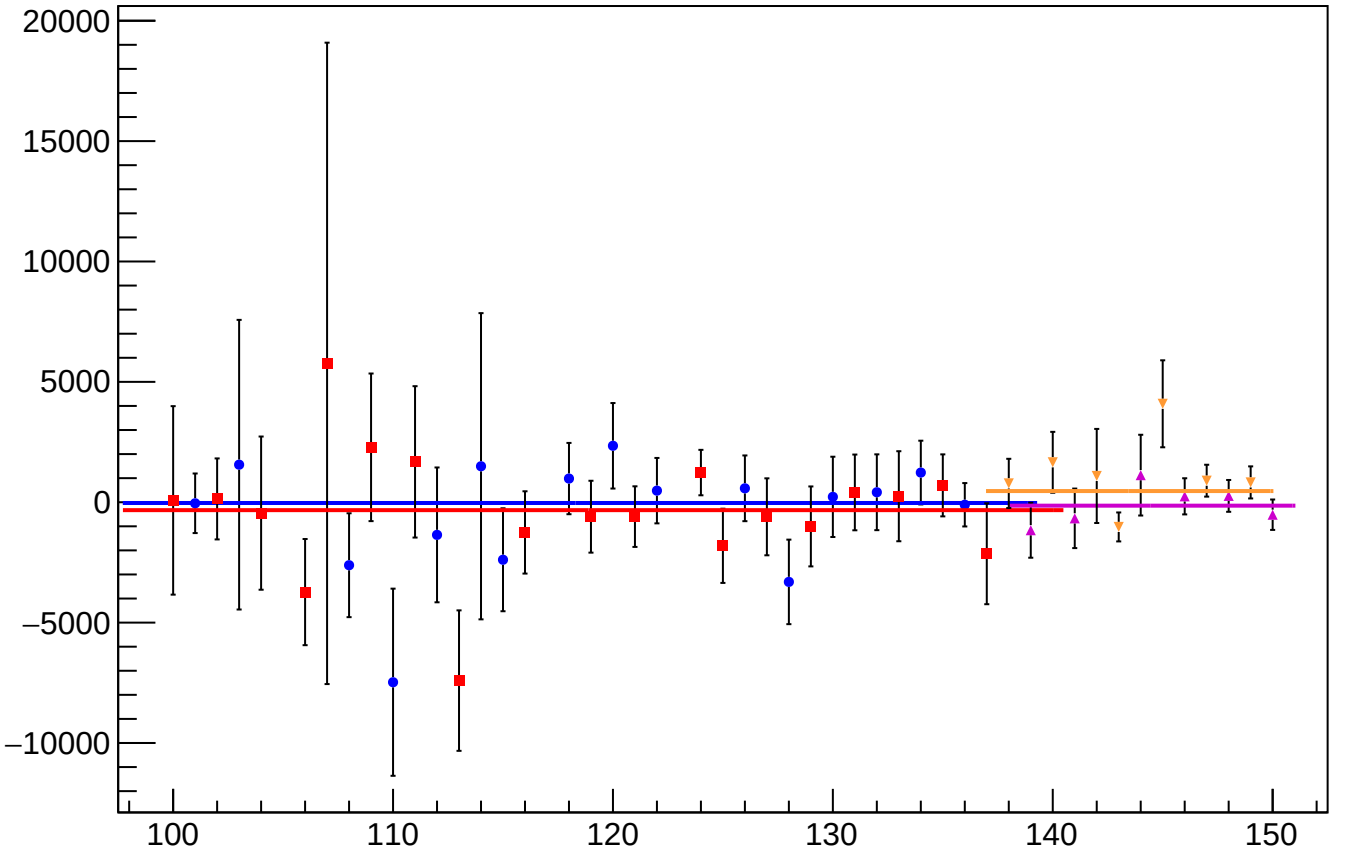
Left: 2413.444+/-0.524 $\chi^2$/NDF: 47704.1/12

Right: 2593.330+/-0.484 $\chi^2$/NDF: 773493.8/34

In: 2471.155+/-0.496 $\chi^2$/NDF:251960.4/21

Out: 2551.971+/-0.510 $\chi^2$/NDF:619902.8/25

All: 2510.479+/-0.356 $\chi^2$/NDF: 884764.4/47




Right In: -31.191+/-405.726 $\chi^2$/NDF: 13.8/15

Left Out: 464.197+/-325.306 $\chi^2$/NDF:12.0/6

Right Out: -328.475+/-398.568 $\chi^2$/NDF: 15.6/18

Left In: -142.285+/-346.129 $\chi^2$/NDF:2.5/5

Left: 179.747+/-237.046 $\chi^2$/NDF: 16.1/12

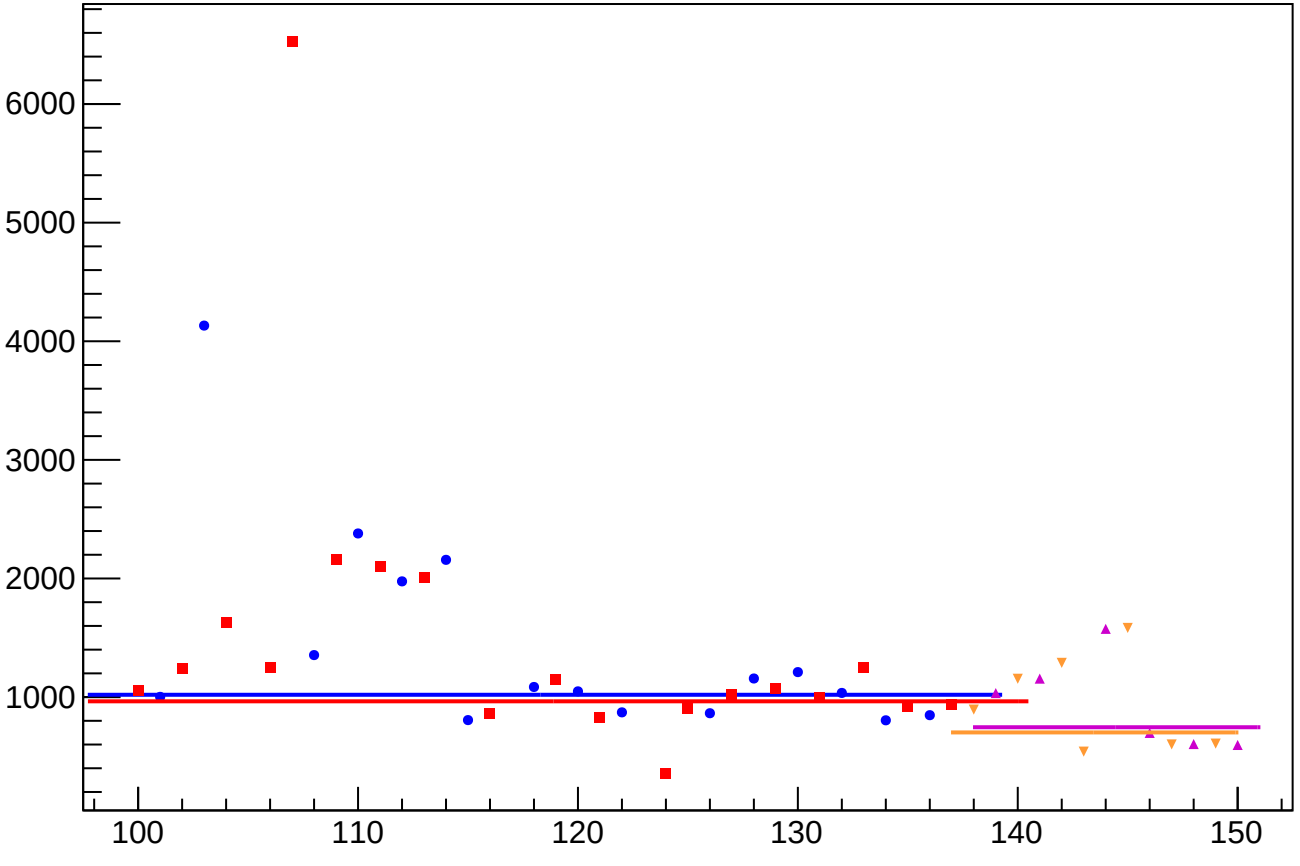
Right: -182.479+/-284.327 $\chi^2$/NDF: 29.7/34

In: -95.489+/-263.325 $\chi^2$/NDF:16.4/21

Out: 147.272+/-252.019 $\chi^2$/NDF:30.0/25

All: 31.215+/-182.070 $\chi^2$/NDF: 46.8/47

# asym_atl1_reg_correction_rms vs Slug, Sign Corrected




Right In: 1019.523+/-0.287 $\chi^2$/NDF: 1364745.9/15

Left Out: 702.075+/-0.230 $\chi^2$/NDF:1214679.0/6

Right Out: 964.379+/-0.282 $\chi^2$/NDF: 2309359.3/18

Left In: 745.835+/-0.245 $\chi^2$/NDF:1048177.4/5

Left: 722.599+/-0.168 $\chi^2$/NDF: 2279830.9/12

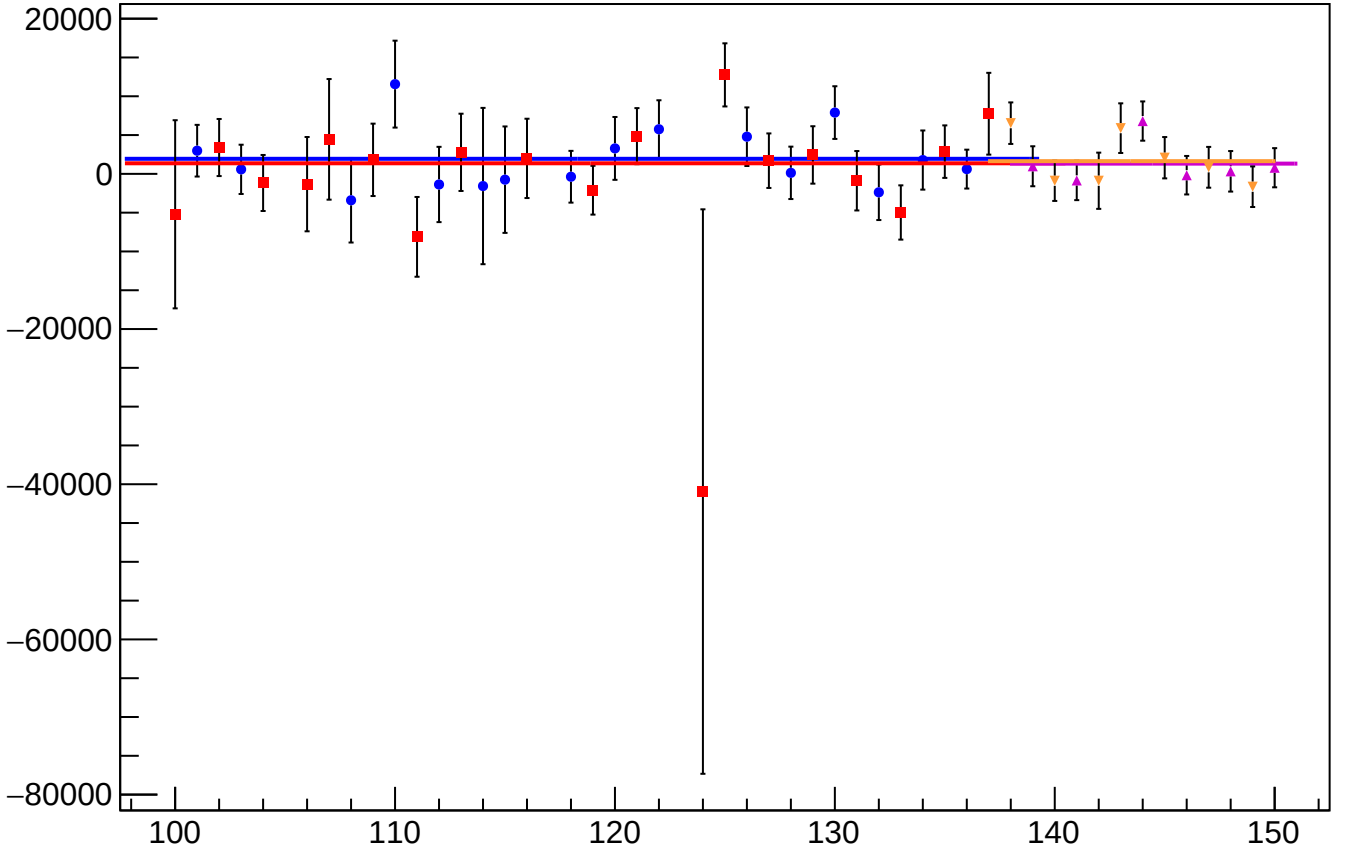
Right: 991.460+/-0.201 $\chi^2$/NDF: 3692906.6/34

In: 861.120+/-0.186 $\chi^2$/NDF:2939645.1/21

Out: 806.949+/-0.178 $\chi^2$/NDF:4043936.4/25

All: 832.847+/-0.129 $\chi^2$/NDF: 7027758.4/47

# cor_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1636.357+/-1058.077 $\chi^2$/NDF:8.2/6

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 1319.321+/-1038.281 $\chi^2$/NDF:6.0/5

Left: 1474.845+/-741.075 $\chi^2$/NDF: 14.3/12

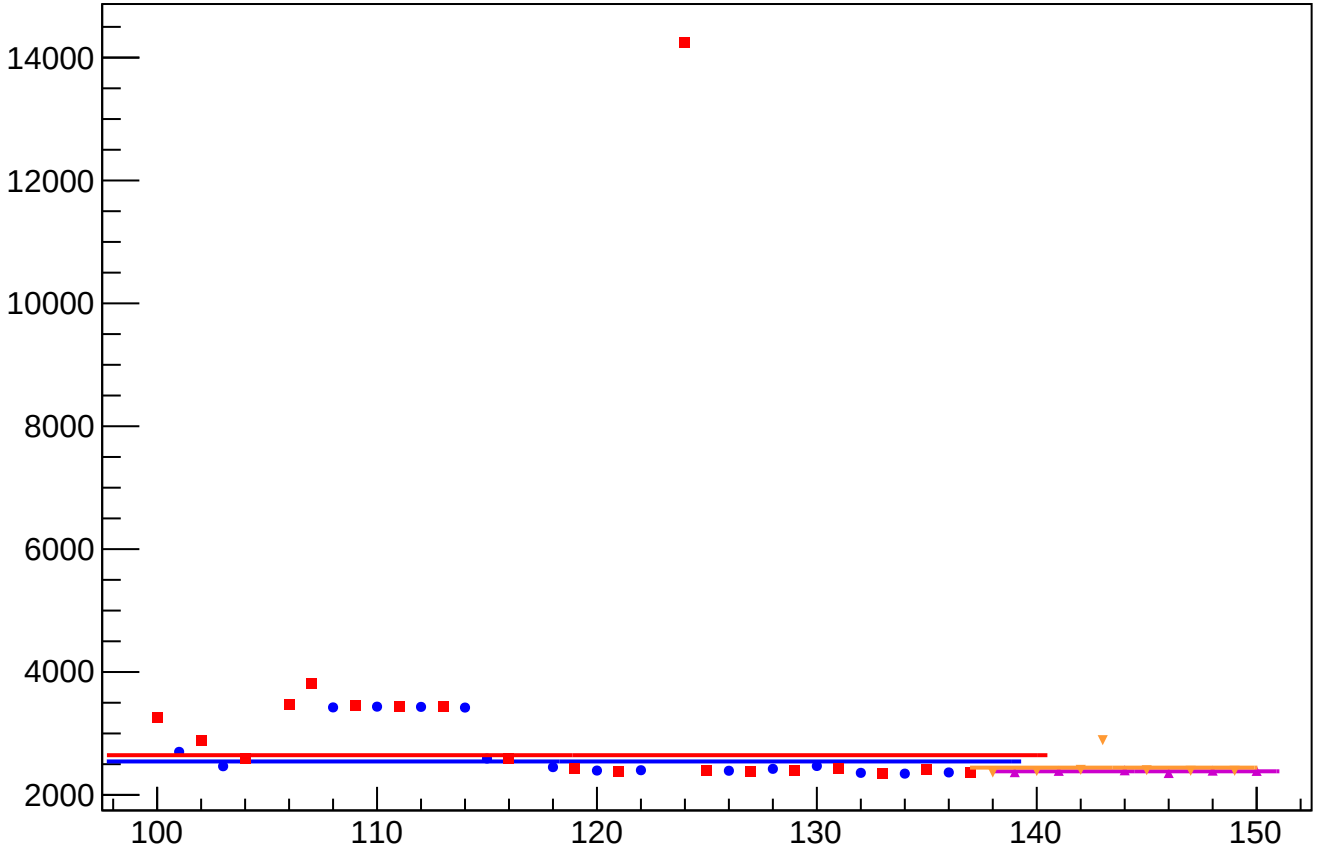
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 1656.346+/-701.904 $\chi^2$/NDF:18.4/21

Out: 1490.019+/-721.116 $\chi^2$/NDF:30.0/25

All: 1575.428+/-502.976 $\chi^2$/NDF: 48.4/47

# cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2443.906+/-0.748 $\chi^2$/NDF:43990.9/6

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2384.111+/-0.734 $\chi^2$/NDF:459.2/5

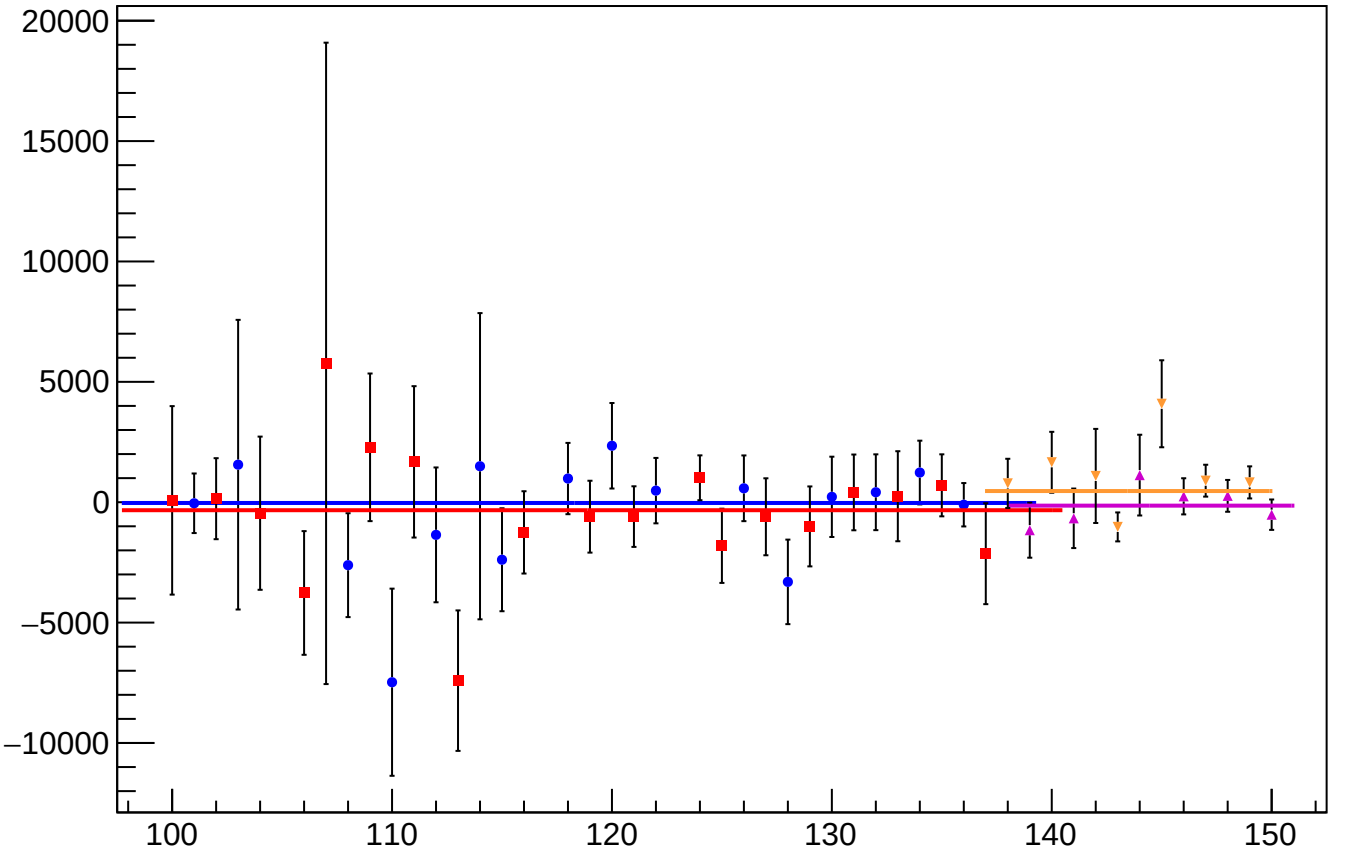
Left: 2413.444+/-0.524 $\chi^2$/NDF: 47704.1/12

Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2471.155+/-0.496 $\chi^2$/NDF:251960.4/21

Out: 2552.238+/-0.510 $\chi^2$/NDF:622688.4/25

All: 2510.602+/-0.356 $\chi^2$/NDF: 887633.3/47




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 464.072+/-325.313 $\chi^2$/NDF:12.0/6

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -142.112+/-346.124 $\chi^2$/NDF:2.5/5

Left: 179.751+/-237.047 $\chi^2$/NDF: 16.1/12

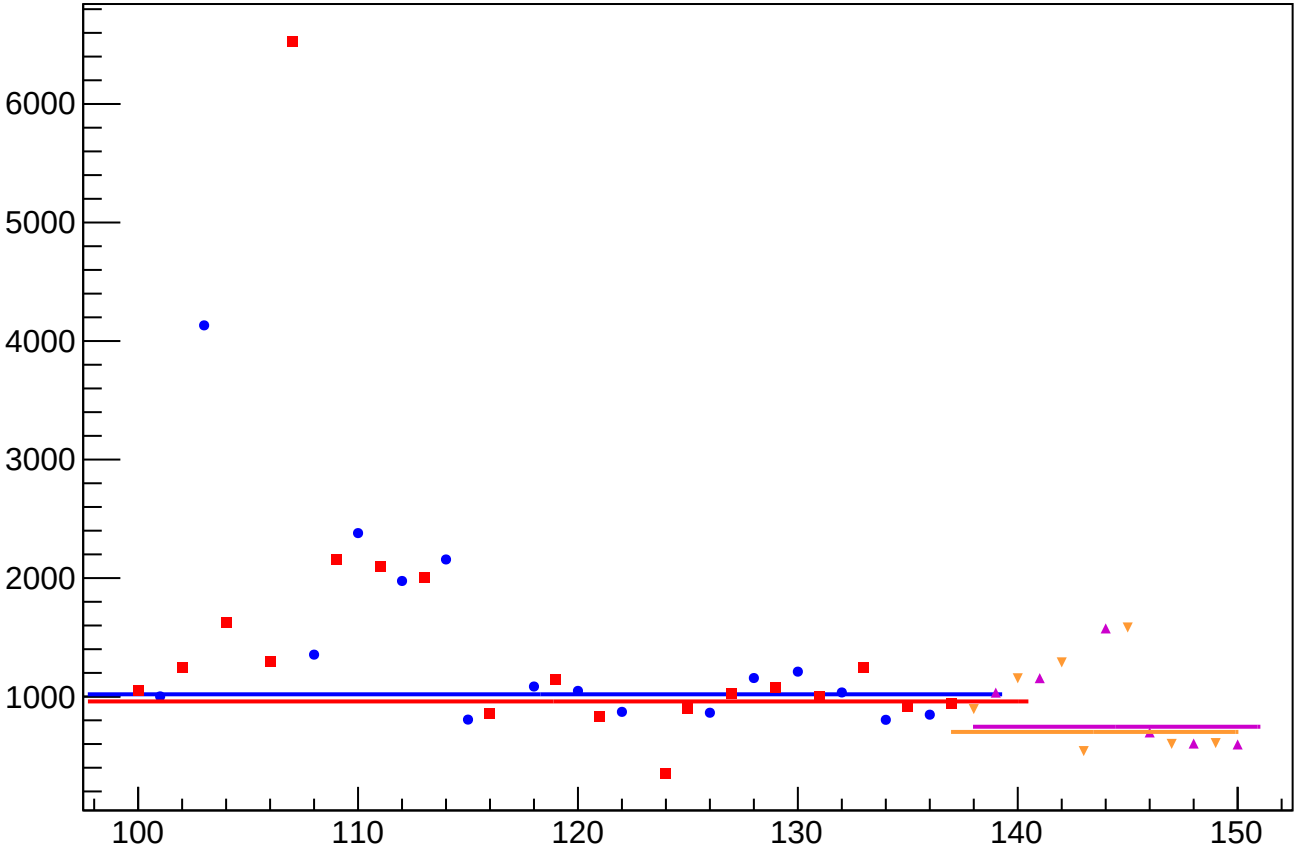
Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

In: -95.415+/-263.322 $\chi^2$/NDF:16.4/21

Out: 146.528+/-252.216 $\chi^2$/NDF:28.7/25

All: 30.766+/-182.143 $\chi^2$/NDF: 45.6/47

# asym_atl1_cor_correction_rms vs Slug, Sign Corrected




Right In: 1019.514+/-0.287 $\chi^2$/NDF: 1364741.0/15

Left Out: 702.092+/-0.230 $\chi^2$/NDF:1214616.9/6

Right Out: 959.344+/-0.282 $\chi^2$/NDF: 2344434.8/18

Left In: 745.823+/-0.245 $\chi^2$/NDF:1048217.1/5

Left: 722.604+/-0.168 $\chi^2$/NDF: 2279785.5/12

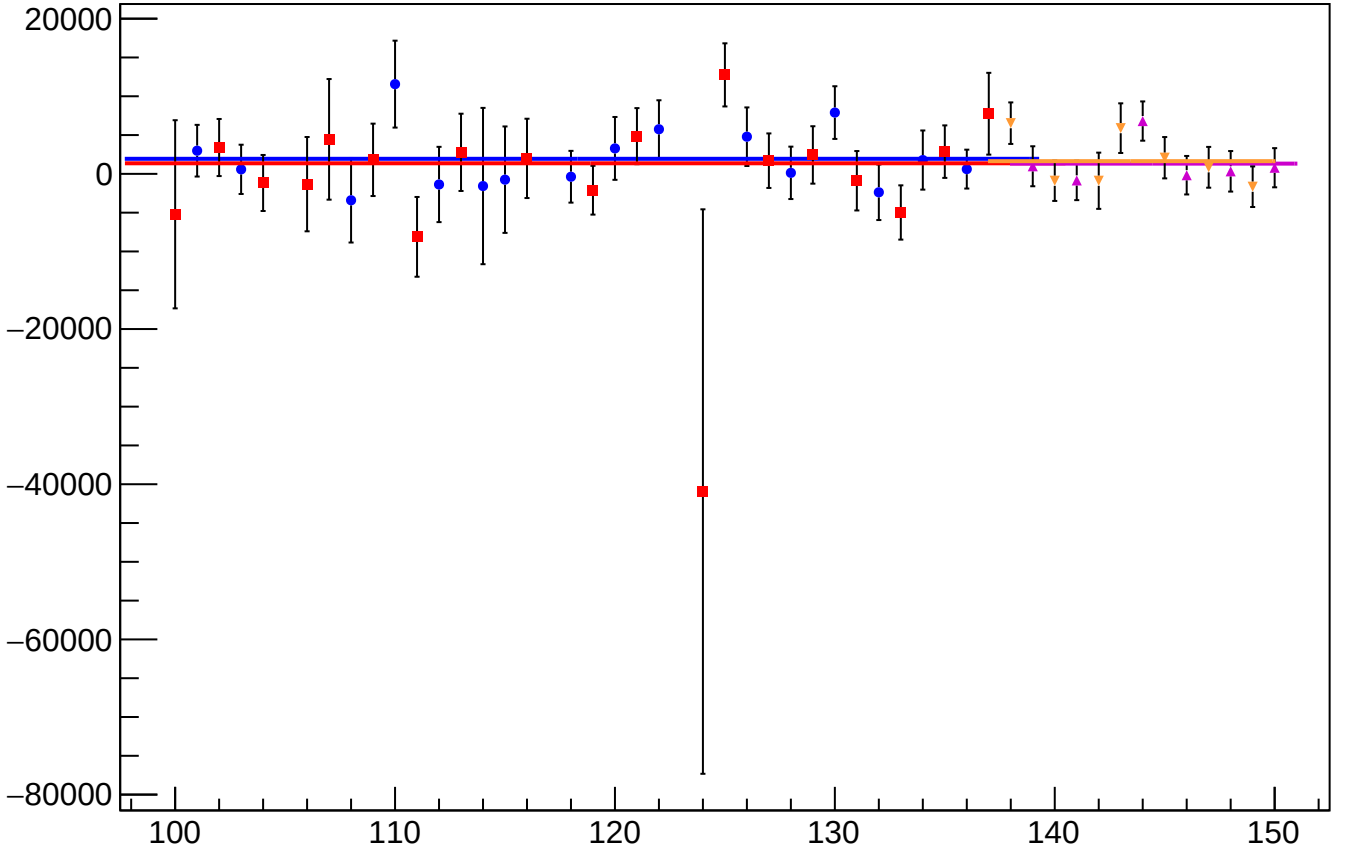
Right: 988.952+/-0.201 $\chi^2$/NDF: 3731518.7/34

In: 861.109+/-0.186 $\chi^2$/NDF:2939703.6/21

Out: 804.712+/-0.178 $\chi^2$/NDF:4057953.9/25

All: 831.696+/-0.129 $\chi^2$/NDF: 7045503.7/47

# eigen_cor_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1636.357+/-1058.077 $\chi^2$/NDF:8.2/6

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 1319.321+/-1038.281 $\chi^2$/NDF:6.0/5

Left: 1474.845+/-741.075 $\chi^2$/NDF: 14.3/12

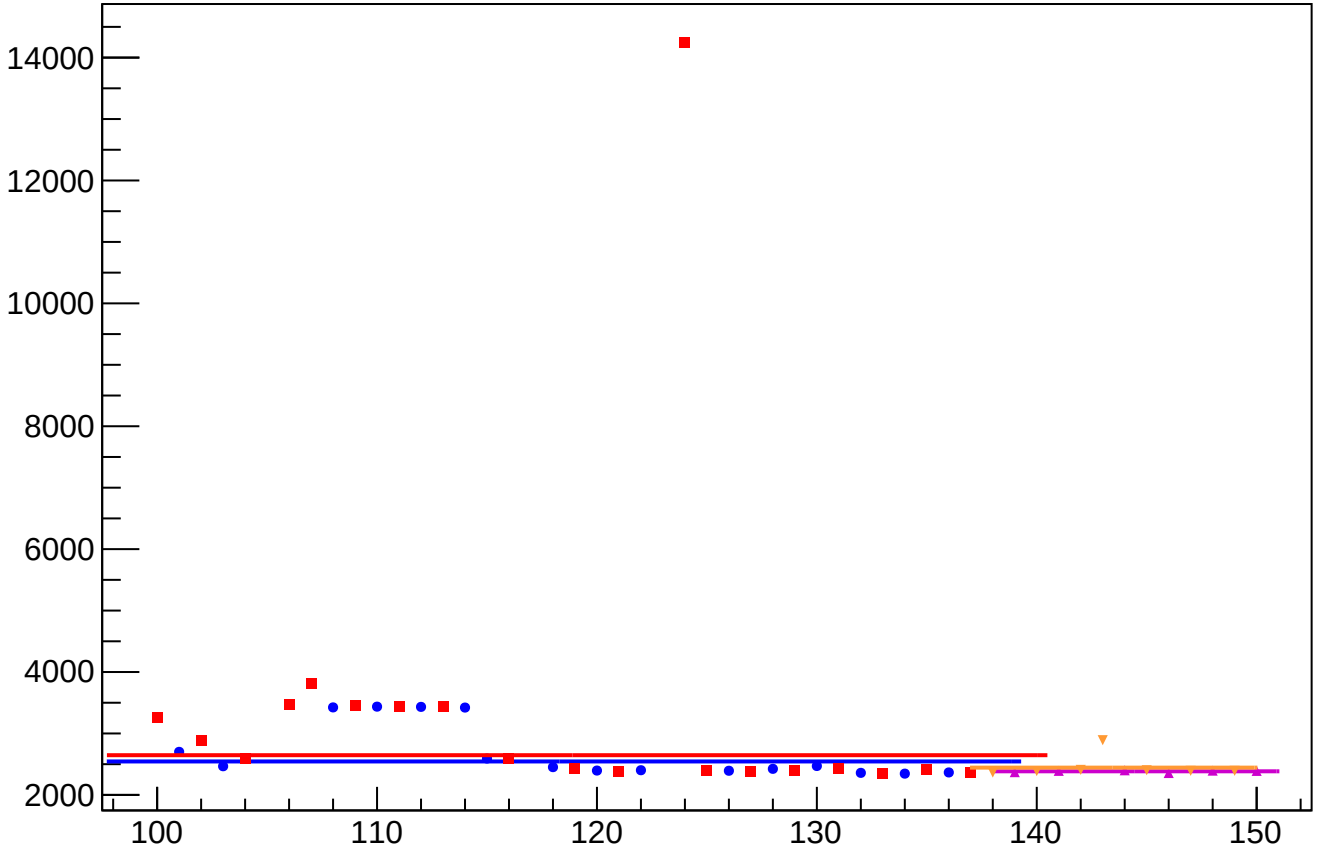
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 1656.346+/-701.904 $\chi^2$/NDF:18.4/21

Out: 1490.019+/-721.116 $\chi^2$/NDF:30.0/25

All: 1575.428+/-502.976 $\chi^2$/NDF: 48.4/47

# eigen_cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2443.906+/-0.748 $\chi^2$/NDF:43990.9/6

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2384.111+/-0.734 $\chi^2$/NDF:459.2/5

Left: 2413.444+/-0.524 $\chi^2$/NDF: 47704.1/12

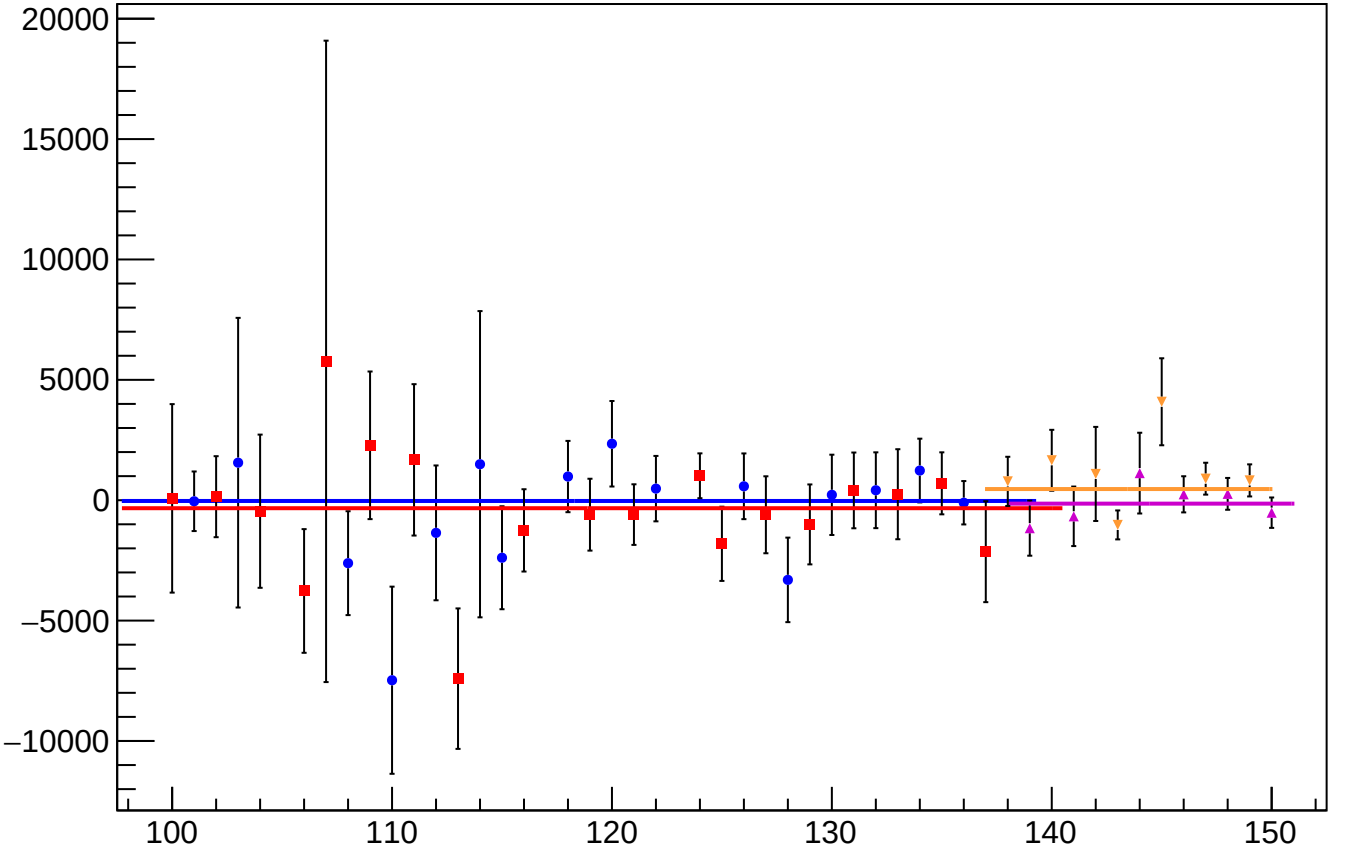
Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2471.155+/-0.496 $\chi^2$/NDF:251960.4/21

Out: 2552.238+/-0.510 $\chi^2$/NDF:622688.4/25

All: 2510.602+/-0.356 $\chi^2$/NDF: 887633.3/47

asym_atl1_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 464.072+/-325.313 $\chi^2$/NDF:12.0/6

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -142.112+/-346.124 $\chi^2$/NDF:2.5/5

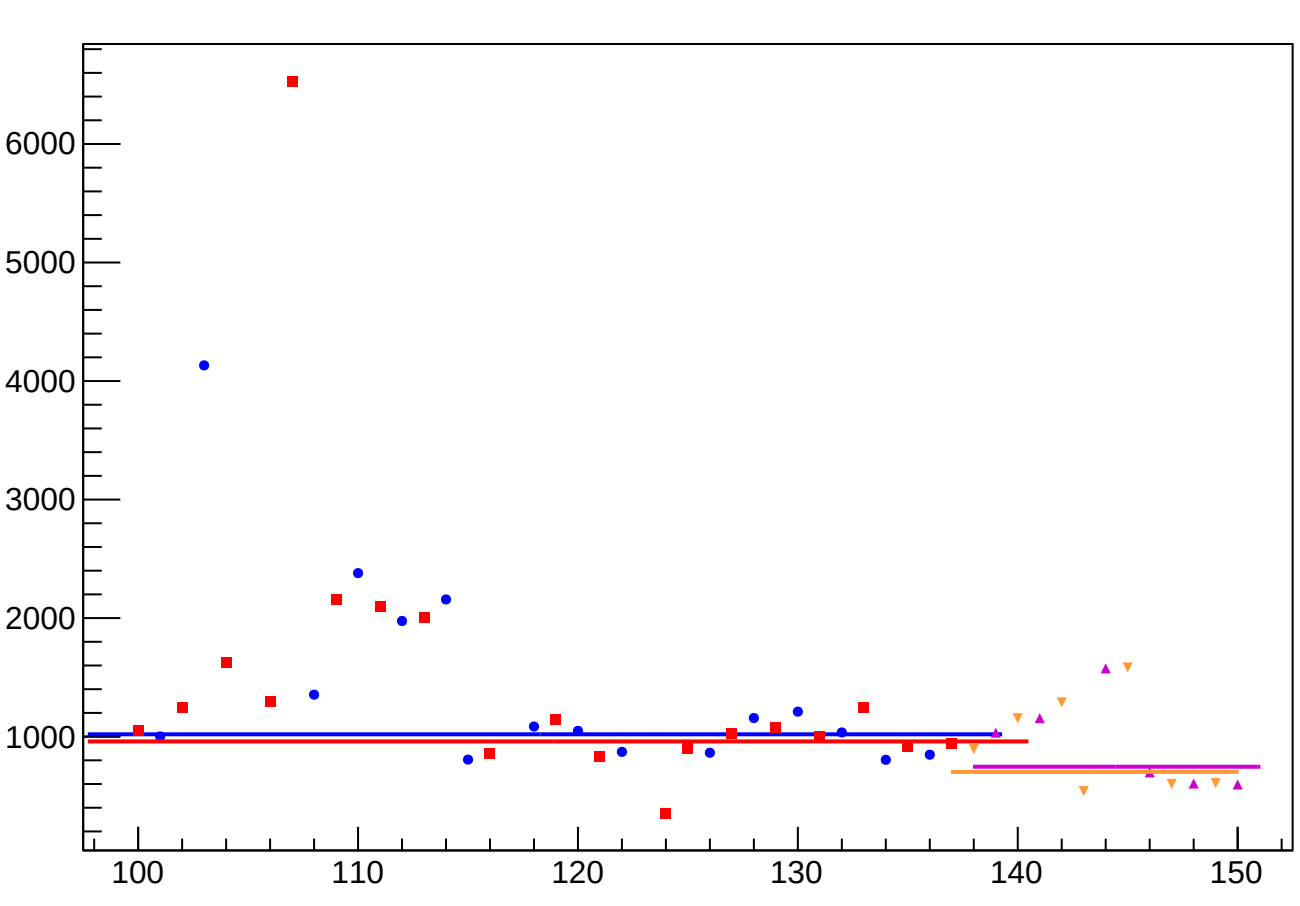
Left: 179.751+/-237.047 $\chi^2$/NDF: 16.1/12

Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

In: -95.415+/-263.322 $\chi^2$/NDF:16.4/21

Out: 146.528+/-252.216 $\chi^2$/NDF:28.7/25

All: 30.766+/-182.143 $\chi^2$/NDF: 45.6/47




Right In: 1019.514+/-0.287 $\chi^2$/NDF: 1364741.0/15

Left Out: 702.092+/-0.230 $\chi^2$/NDF:1214616.9/6

Right Out: 959.344+/-0.282 $\chi^2$/NDF: 2344434.8/18

Left In: 745.823+/-0.245 $\chi^2$/NDF:1048217.1/5

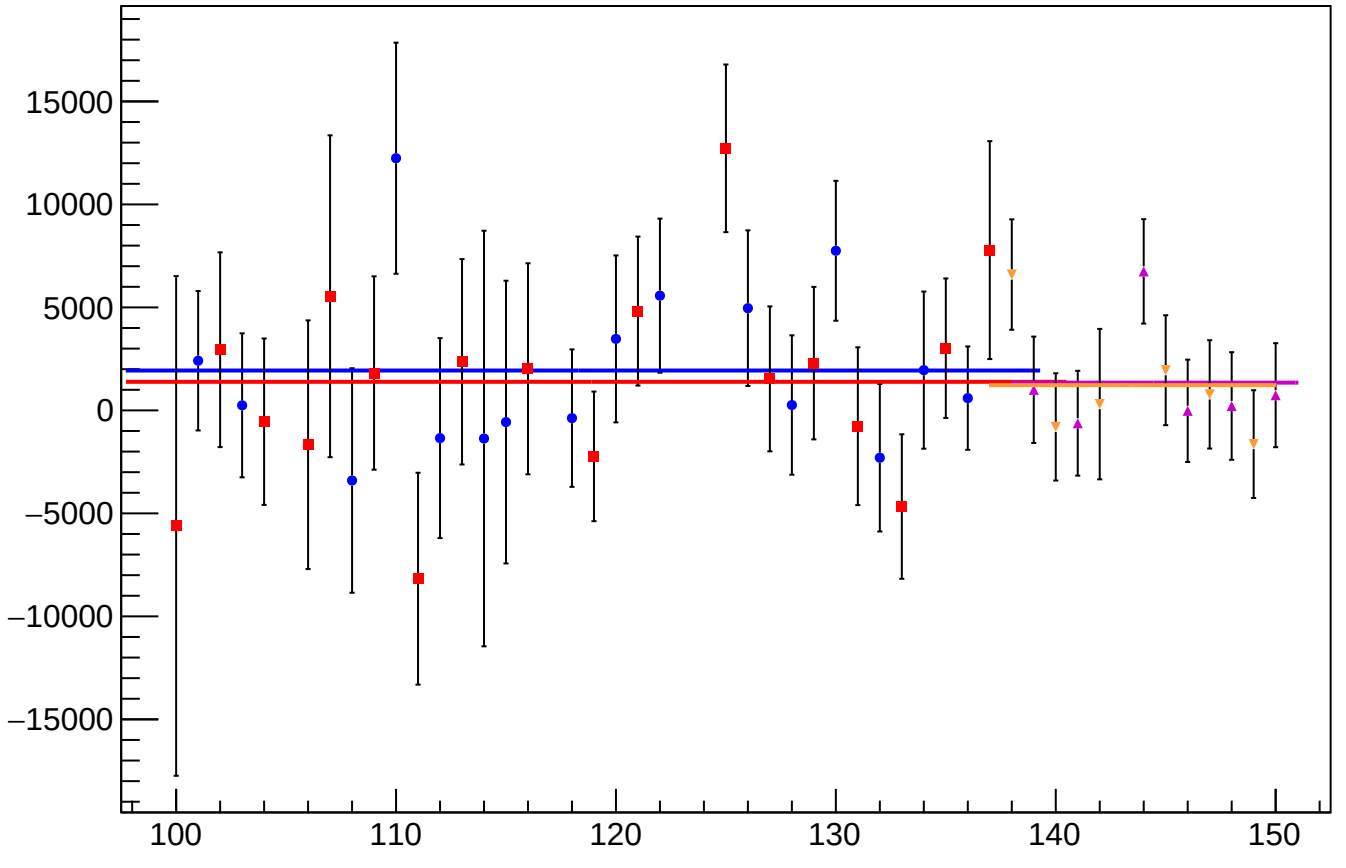
Left: 722.604+/-0.168 $\chi^2$/NDF: 2279785.5/12

Right: 988.952+/-0.201 $\chi^2$/NDF: 3731518.7/34

In: 861.109+/-0.186 $\chi^2$/NDF:2939703.6/21

Out: 804.712+/-0.178 $\chi^2$/NDF:4057953.9/25

All: 831.696+/-0.129 $\chi^2$/NDF: 7045503.7/47




Right In: 1935.992+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 1224.318+/-1123.239 $\chi^2$/NDF:6.0/5

Right Out: 1387.548+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 1348.366+/-1039.494 $\chi^2$/NDF:5.7/5

Left: 1291.138+/-762.923 $\chi^2$/NDF: 11.7/11

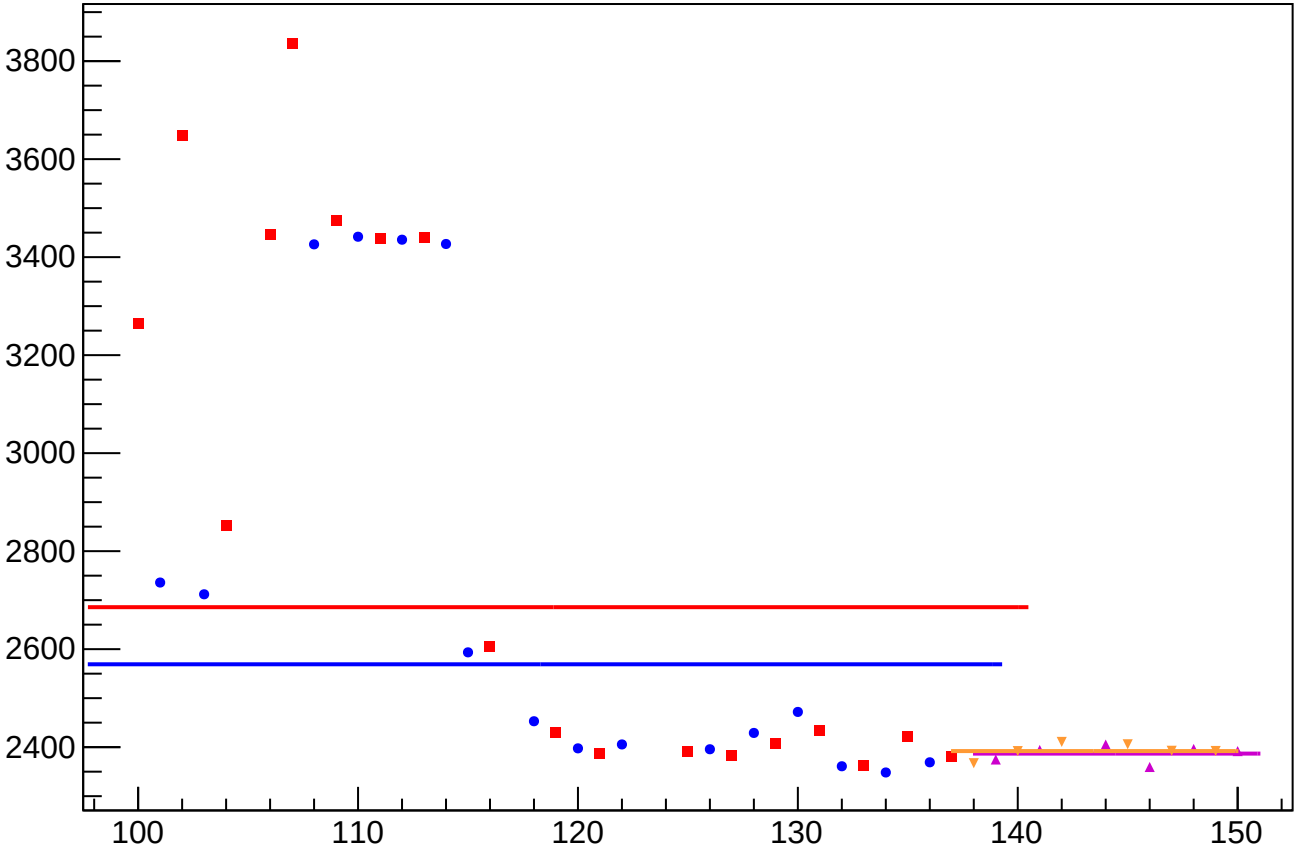
Right: 1674.777+/-696.416 $\chi^2$/NDF: 32.3/33

In: 1664.799+/-706.172 $\chi^2$/NDF:18.2/21

Out: 1314.645+/-750.663 $\chi^2$/NDF:25.8/23

All: 1500.405+/-514.349 $\chi^2$/NDF: 44.1/45

# dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.5/15

Left Out: 2392.011+/-0.794 $\chi^2$/NDF:277.0/5

Right Out: 2685.675+/-0.714 $\chi^2$/NDF: 419264.8/17

Left In: 2386.870+/-0.735 $\chi^2$/NDF:442.5/5

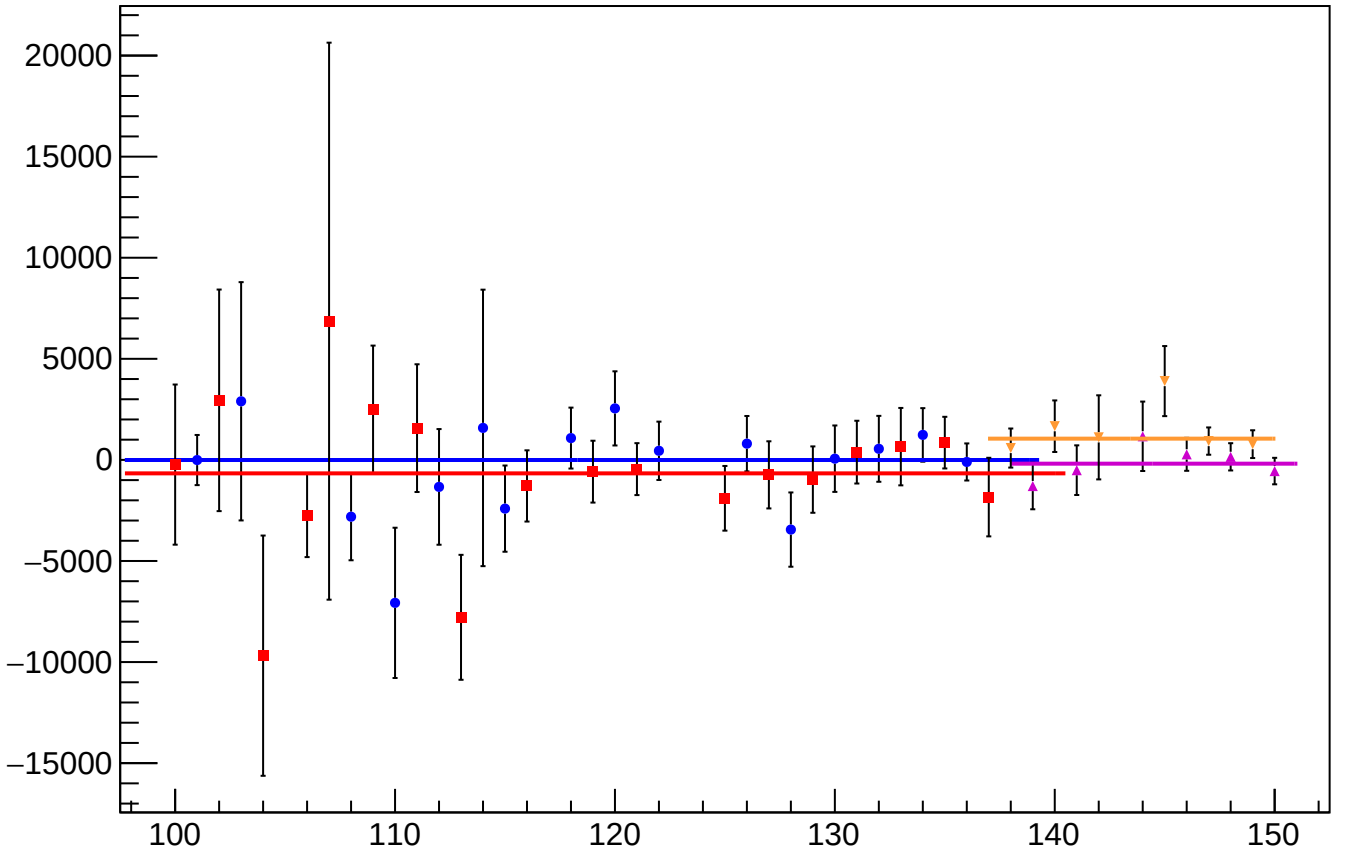
Left: 2389.241+/-0.539 $\chi^2$/NDF: 742.1/11

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662723.7/33

In: 2485.016+/-0.499 $\chi^2$/NDF:263039.4/21

Out: 2554.516+/-0.531 $\chi^2$/NDF:495191.0/23

All: 2517.645+/-0.364 $\chi^2$/NDF: 767325.6/45




Right In: -5.169+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 1051.295+/-390.362 $\chi^2$/NDF:3.4/5

Right Out: -665.952+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -186.865+/-358.204 $\chi^2$/NDF:2.5/5

Left: 379.122+/-263.926 $\chi^2$/NDF: 11.3/11

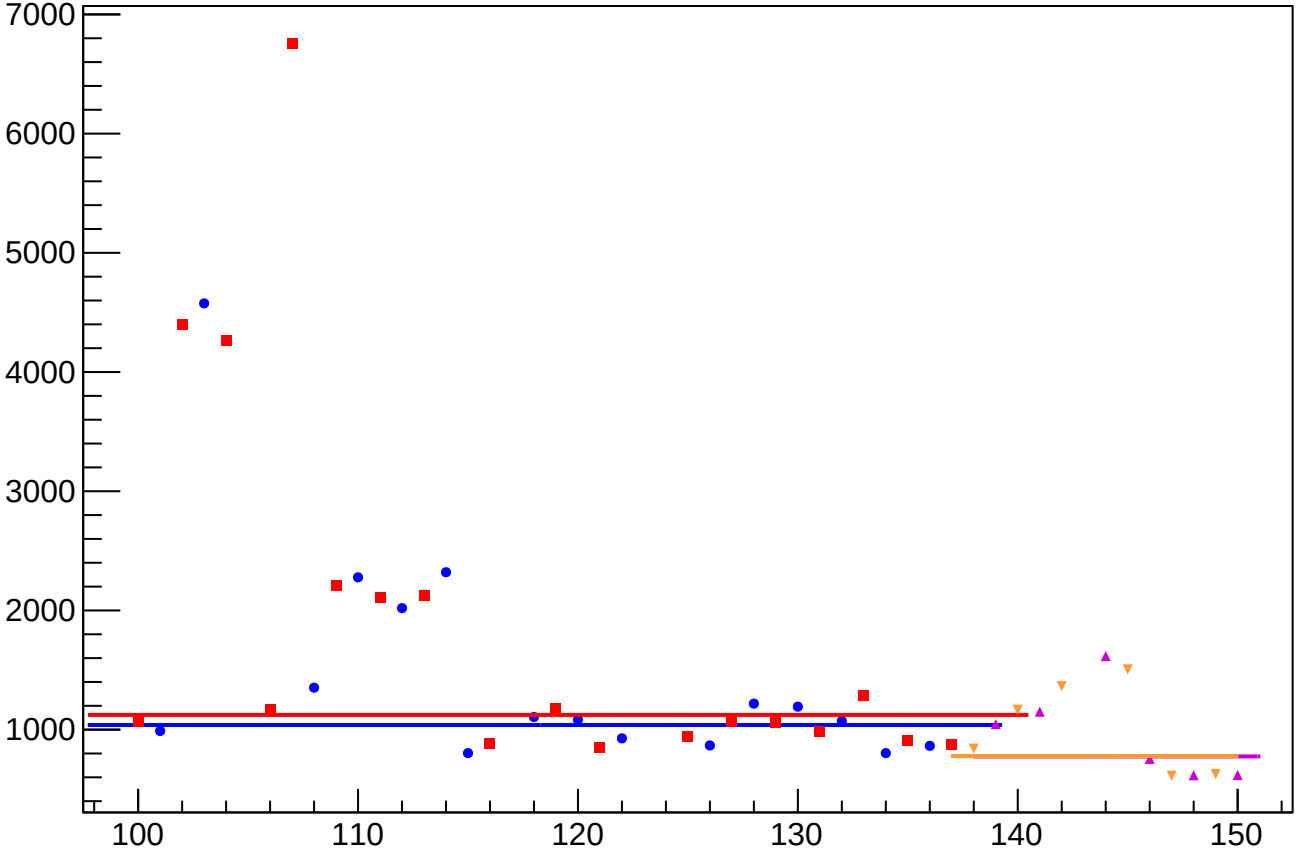
Right: -299.130+/-307.154 $\chi^2$/NDF: 30.0/33

In: -108.700+/-270.391 $\chi^2$/NDF:17.1/21

Out: 333.294+/-297.775 $\chi^2$/NDF:25.8/23

All: 91.044+/-200.178 $\chi^2$/NDF: 44.1/45

# asym_atl1_dit_correction_rms vs Slug, Sign Corrected




Right In: 1038.803+/-0.292 $\chi^2$/NDF: 1539731.1/15

Left Out: 778.599+/-0.276 $\chi^2$/NDF:919946.5/5

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535511.7/17

Left In: 775.260+/-0.253 $\chi^2$/NDF:1001479.0/5

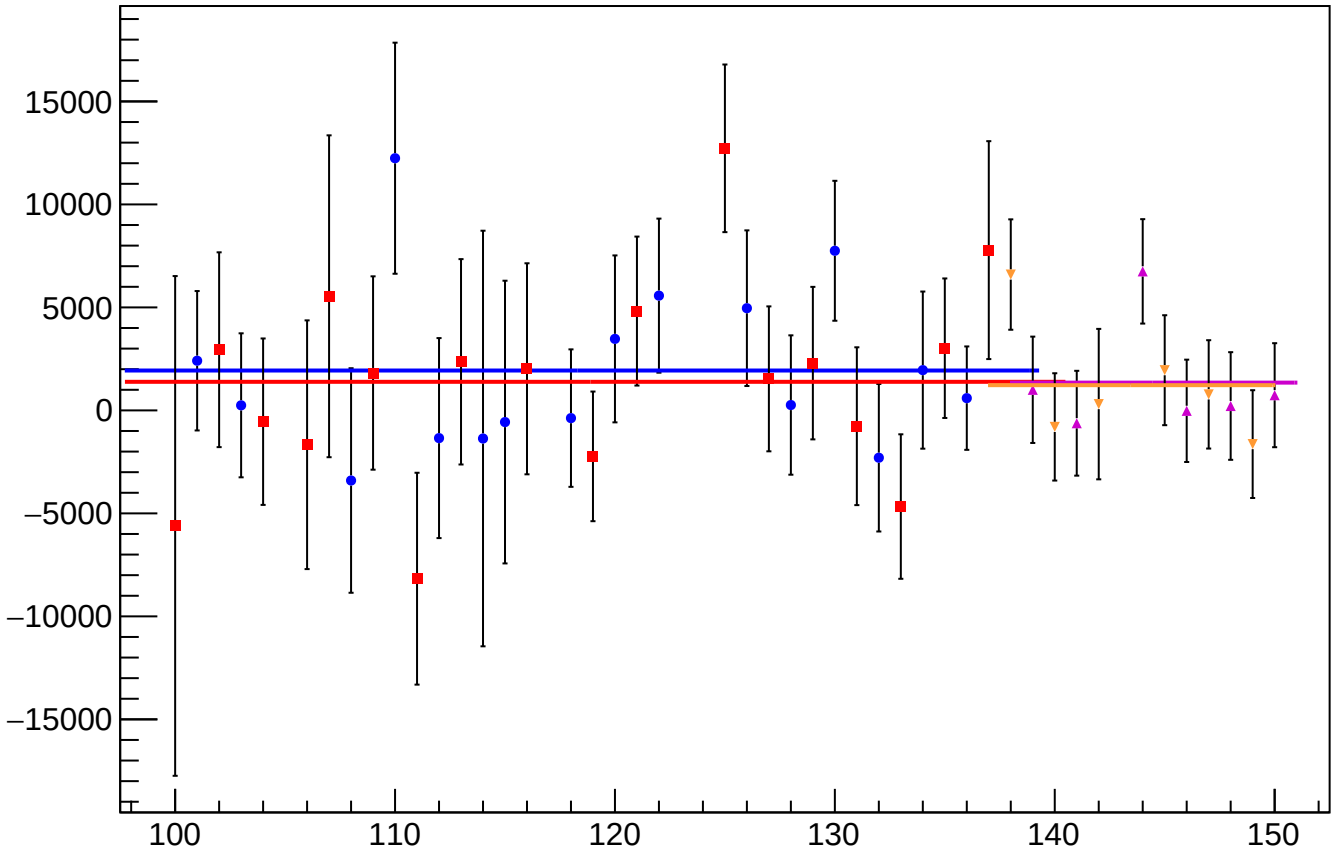
Left: 776.786+/-0.187 $\chi^2$/NDF: 1921505.0/11

Right: 1076.470+/-0.217 $\chi^2$/NDF: 4112776.2/33

In: 888.636+/-0.191 $\chi^2$/NDF:3006945.6/21

Out: 922.796+/-0.211 $\chi^2$/NDF:4108152.4/23

All: 904.073+/-0.142 $\chi^2$/NDF: 7129523.7/45




Right In: 1935.988+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 1224.322+/-1123.239 $\chi^2$/NDF:6.0/5

Right Out: 1387.545+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 1348.366+/-1039.494 $\chi^2$/NDF:5.7/5

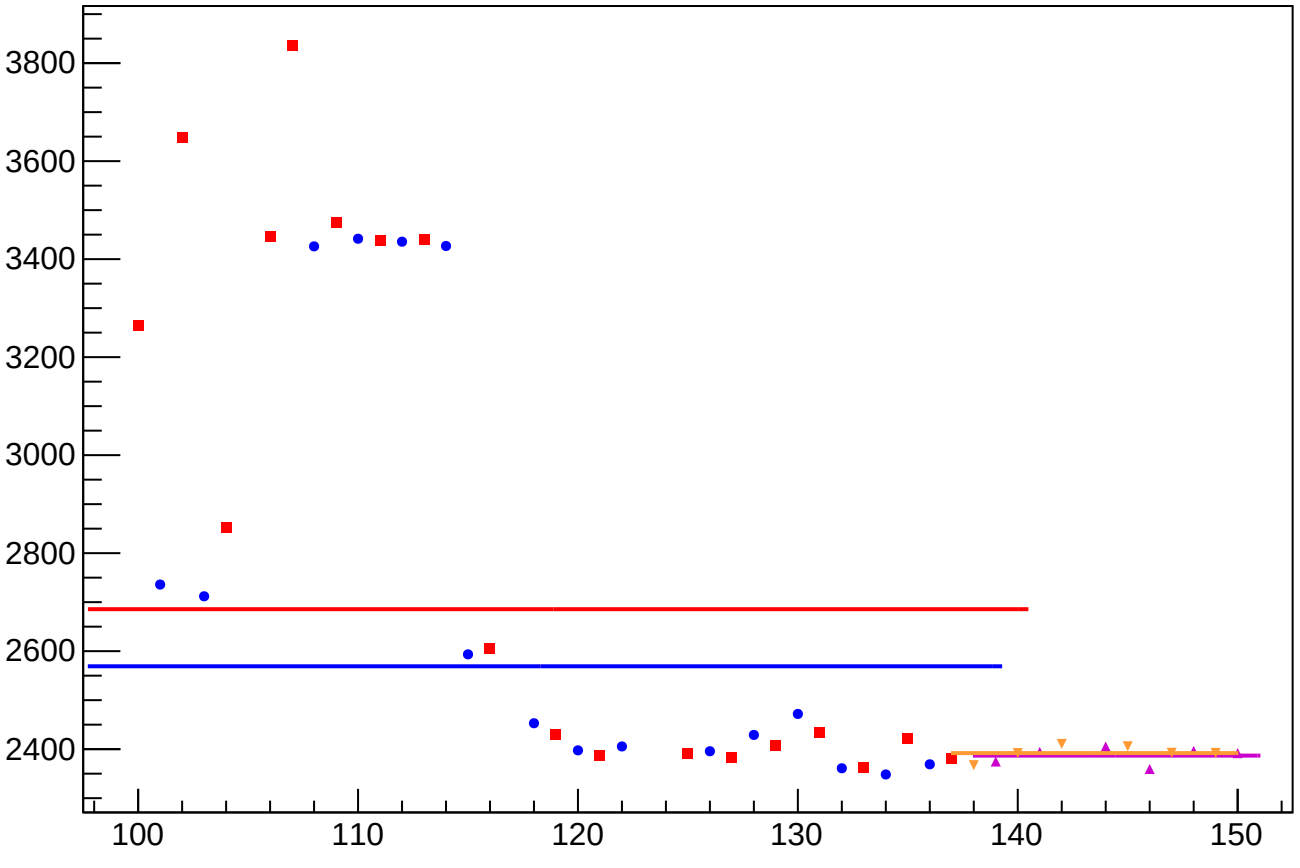
Left: 1291.140+/-762.923 $\chi^2$/NDF: 11.7/11

Right: 1674.774+/-696.416 $\chi^2$/NDF: 32.3/33

In: 1664.797+/-706.172 $\chi^2$/NDF:18.2/21

Out: 1314.645+/-750.663 $\chi^2$/NDF:25.8/23

All: 1500.404+/-514.349 $\chi^2$/NDF: 44.1/45




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.3/15

Left Out: 2392.011+/-0.794 $\chi^2$/NDF:277.0/5

Right Out: 2685.674+/-0.714 $\chi^2$/NDF: 419264.2/17

Left In: 2386.870+/-0.735 $\chi^2$/NDF:442.5/5

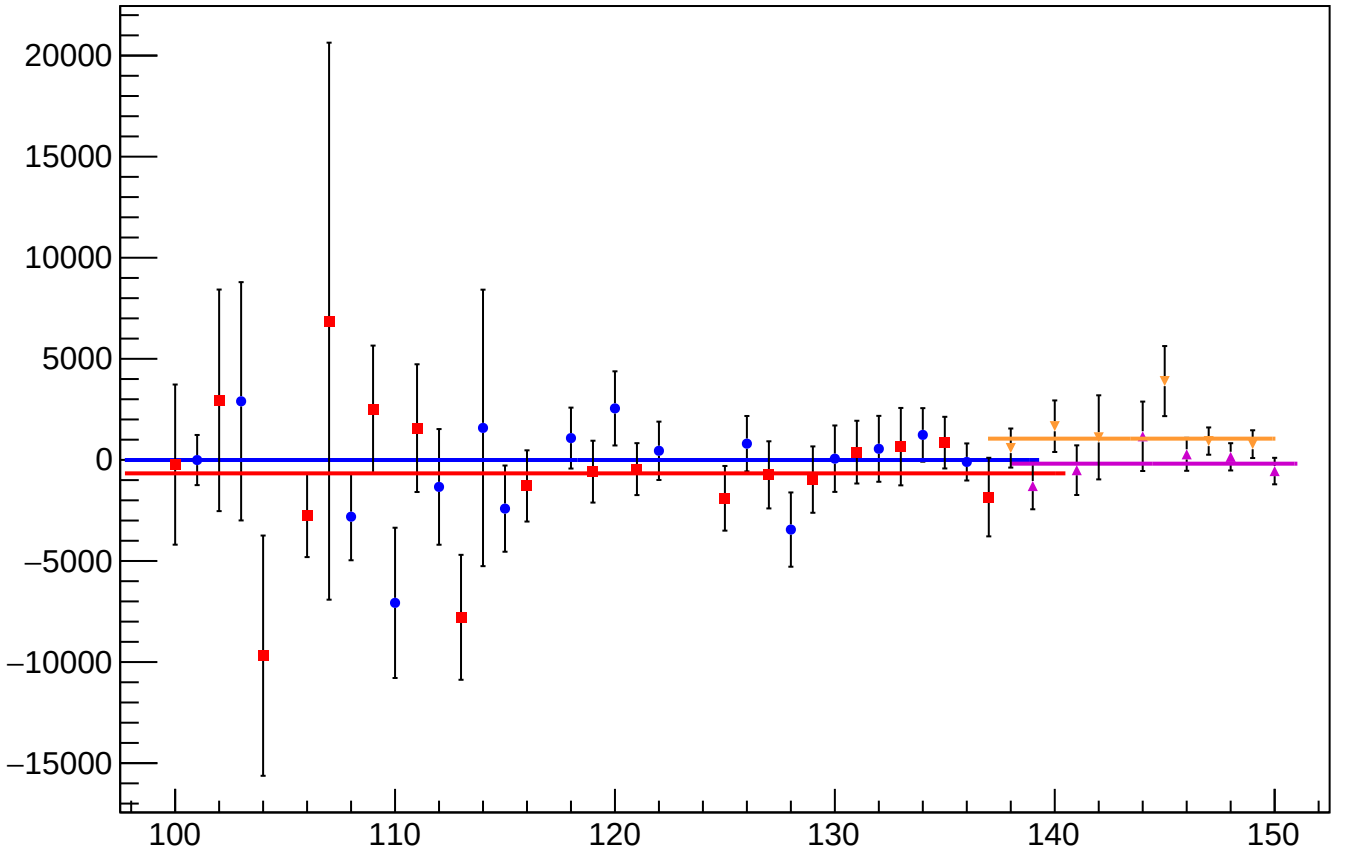
Left: 2389.241+/-0.539 $\chi^2$/NDF: 742.1/11

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662722.8/33

In: 2485.015+/-0.499 $\chi^2$/NDF:263039.1/21

Out: 2554.516+/-0.531 $\chi^2$/NDF:495190.2/23

All: 2517.645+/-0.364 $\chi^2$/NDF: 767324.4/45




Right In: -5.172+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 1051.297+/-390.363 $\chi^2$/NDF:3.4/5

Right Out: -665.953+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -186.865+/-358.205 $\chi^2$/NDF:2.5/5

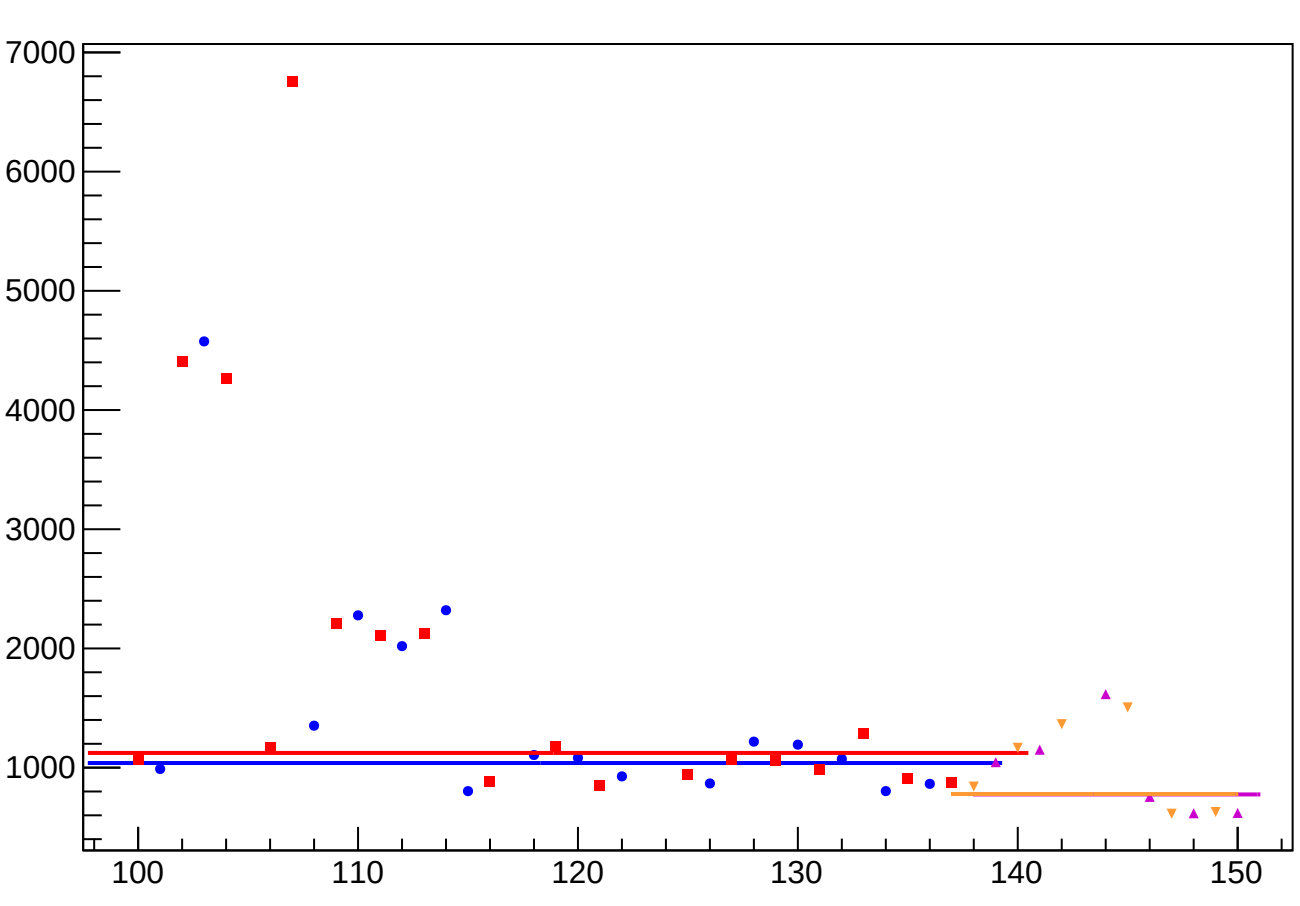
Left: 379.123+/-263.927 $\chi^2$/NDF: 11.3/11

Right: -299.132+/-307.154 $\chi^2$/NDF: 30.0/33

In: -108.701+/-270.391 $\chi^2$/NDF:17.1/21

Out: 333.293+/-297.775 $\chi^2$/NDF:25.8/23

All: 91.043+/-200.178 $\chi^2$/NDF: 44.1/45




Right In: 1038.804+/-0.292 $\chi^2$/NDF: 1539724.8/15

Left Out: 778.601+/-0.276 $\chi^2$/NDF:919943.8/5

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535509.9/17

Left In: 775.262+/-0.253 $\chi^2$/NDF:1001476.5/5

Left: 776.788+/-0.187 $\chi^2$/NDF: 1921499.8/11

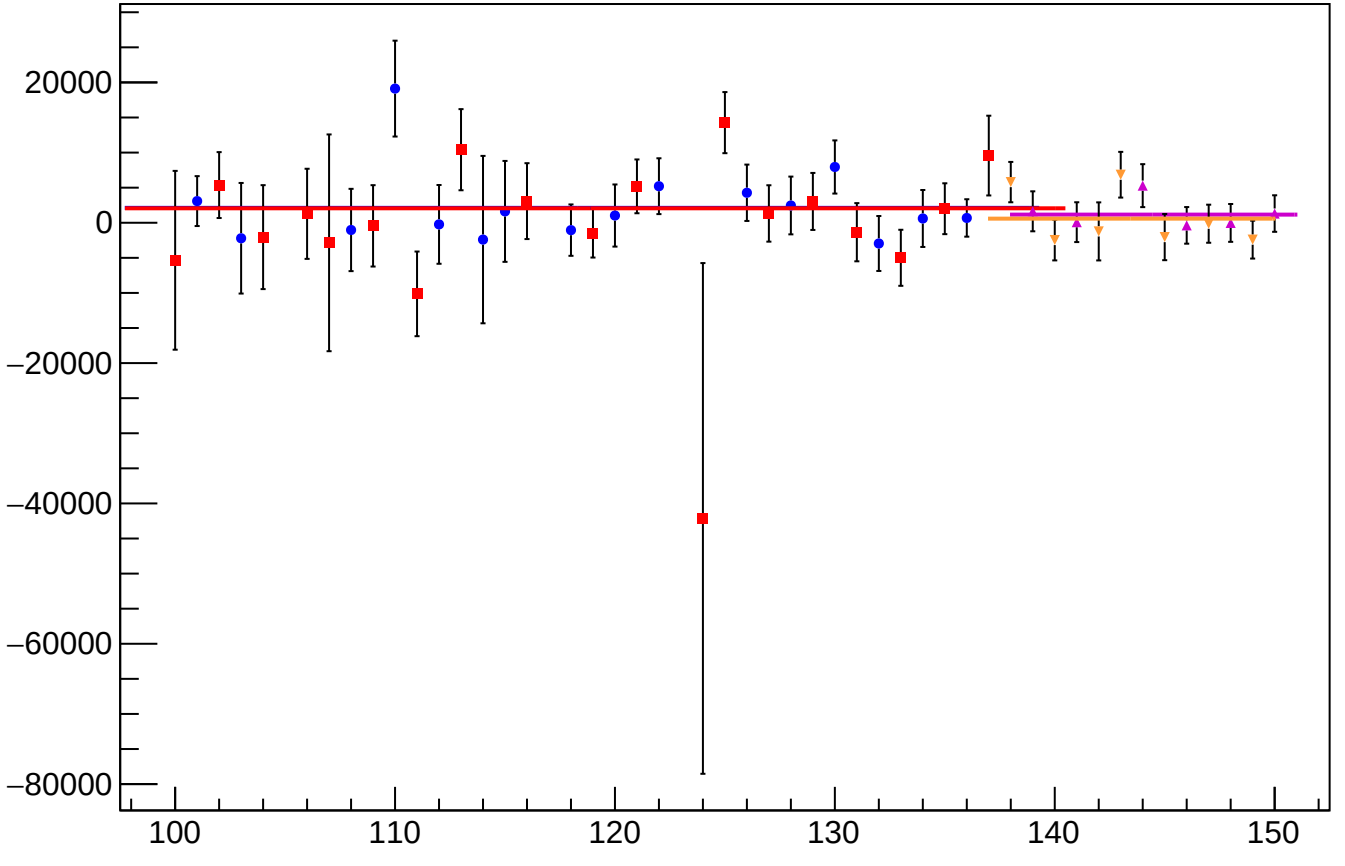
Right: 1076.471+/-0.217 $\chi^2$/NDF: 4112767.4/33

In: 888.637+/-0.191 $\chi^2$/NDF:3006933.2/21

Out: 922.797+/-0.211 $\chi^2$/NDF:4108142.4/23

All: 904.074+/-0.142 $\chi^2$/NDF: 7129501.0/45

# asym_atl1_mean vs Slug, Sign Corrected




Right In: 2121.991+/-1084.700 $\chi^2$/NDF: 13.4/15

Left Out: 586.805+/-1148.885 $\chi^2$/NDF:10.2/6

Right Out: 2059.741+/-1136.807 $\chi^2$/NDF: 24.3/18

Left In: 1159.742+/-1127.930 $\chi^2$/NDF:2.5/5

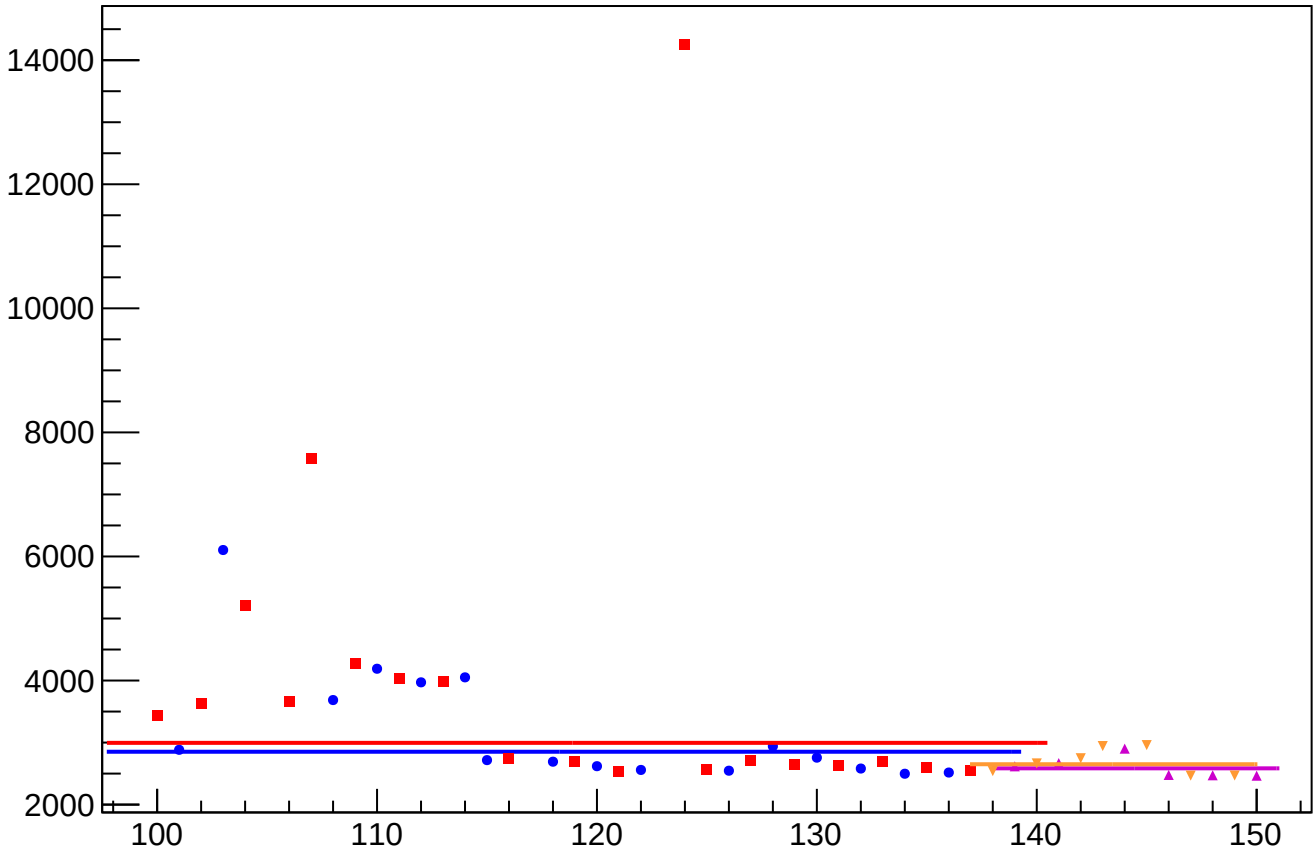
Left: 878.546+/-804.874 $\chi^2$/NDF: 12.9/12

Right: 2092.326+/-784.773 $\chi^2$/NDF: 37.7/34

In: 1659.660+/-781.835 $\chi^2$/NDF:16.3/21

Out: 1331.056+/-808.081 $\chi^2$/NDF:35.4/25

All: 1500.781+/-561.890 $\chi^2$/NDF: 51.7/47




Right In: 2852.206+/-0.767 $\chi^2$/NDF: 648715.2/15

Left Out: 2650.779+/-0.812 $\chi^2$/NDF:55968.7/6

Right Out: 2995.525+/-0.804 $\chi^2$/NDF: 979168.6/18

Left In: 2584.643+/-0.798 $\chi^2$/NDF:34455.8/5

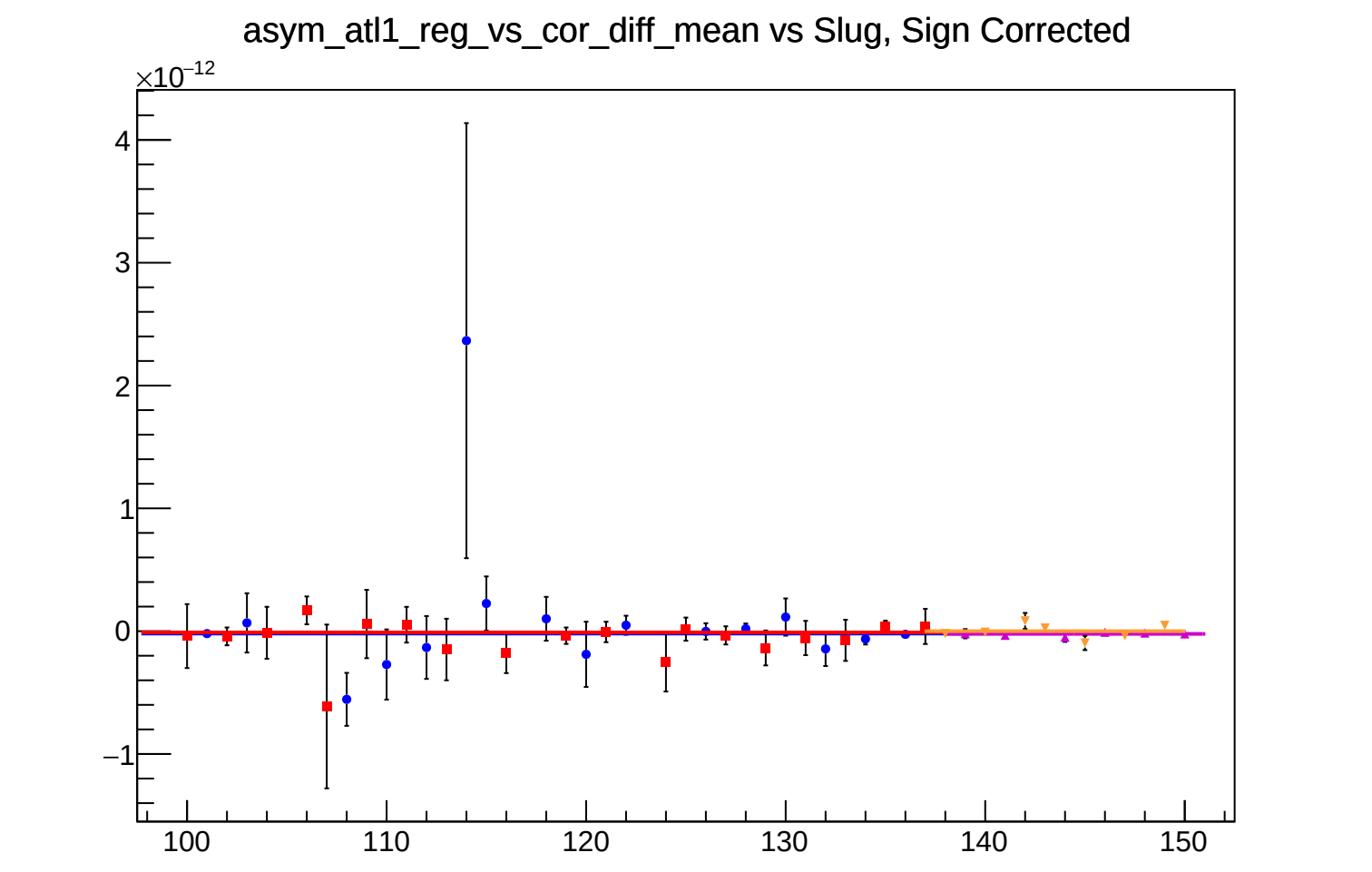
Left: 2617.102+/-0.569 $\chi^2$/NDF: 93799.3/12

Right: 2920.506+/-0.555 $\chi^2$/NDF: 1644523.2/34

In: 2723.650+/-0.553 $\chi^2$/NDF:741640.4/21

Out: 2824.974+/-0.571 $\chi^2$/NDF:1126131.0/25

All: 2772.640+/-0.397 $\chi^2$/NDF: 1884012.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:12.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 8.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/5

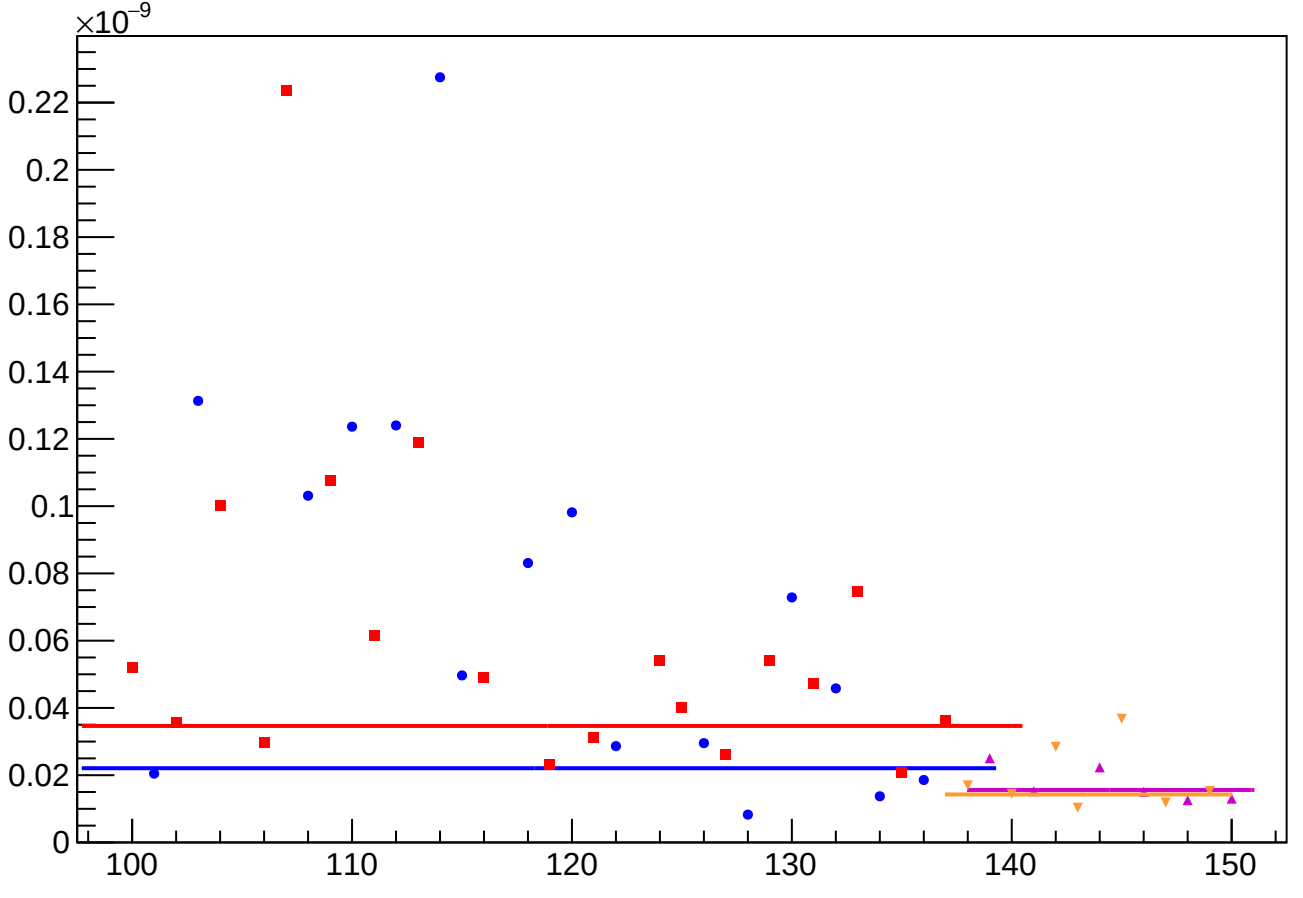
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 39.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2344133.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:526930.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1242991.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:247199.8/5

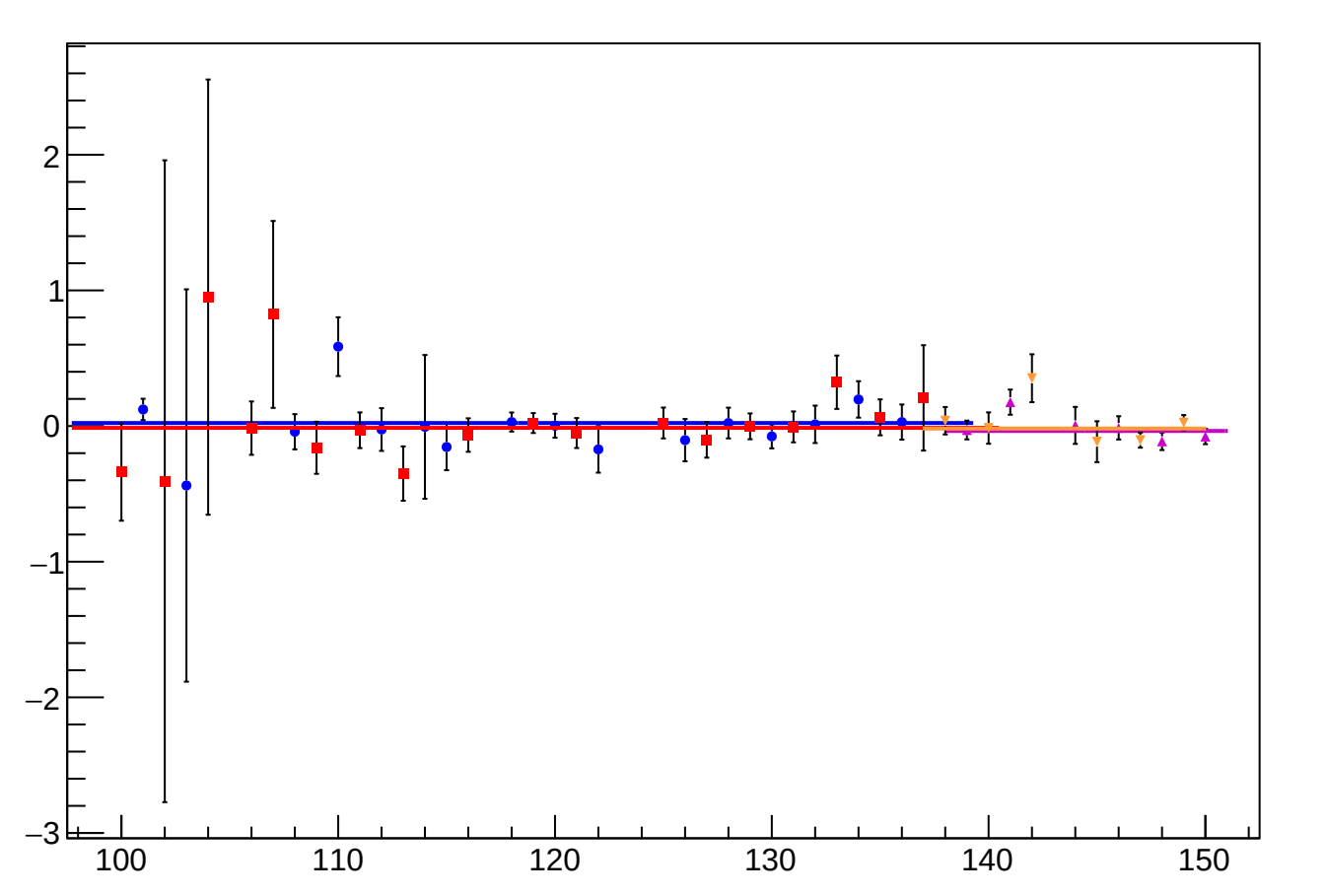
Left: 0.000+/-0.000 $\chi^2$/NDF: 788919.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3942150.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:2786956.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2950219.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5737994.5/47




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: -0.019+/-0.034 $\chi^2$/NDF:8.1/5

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.036+/-0.031 $\chi^2$/NDF:7.3/5

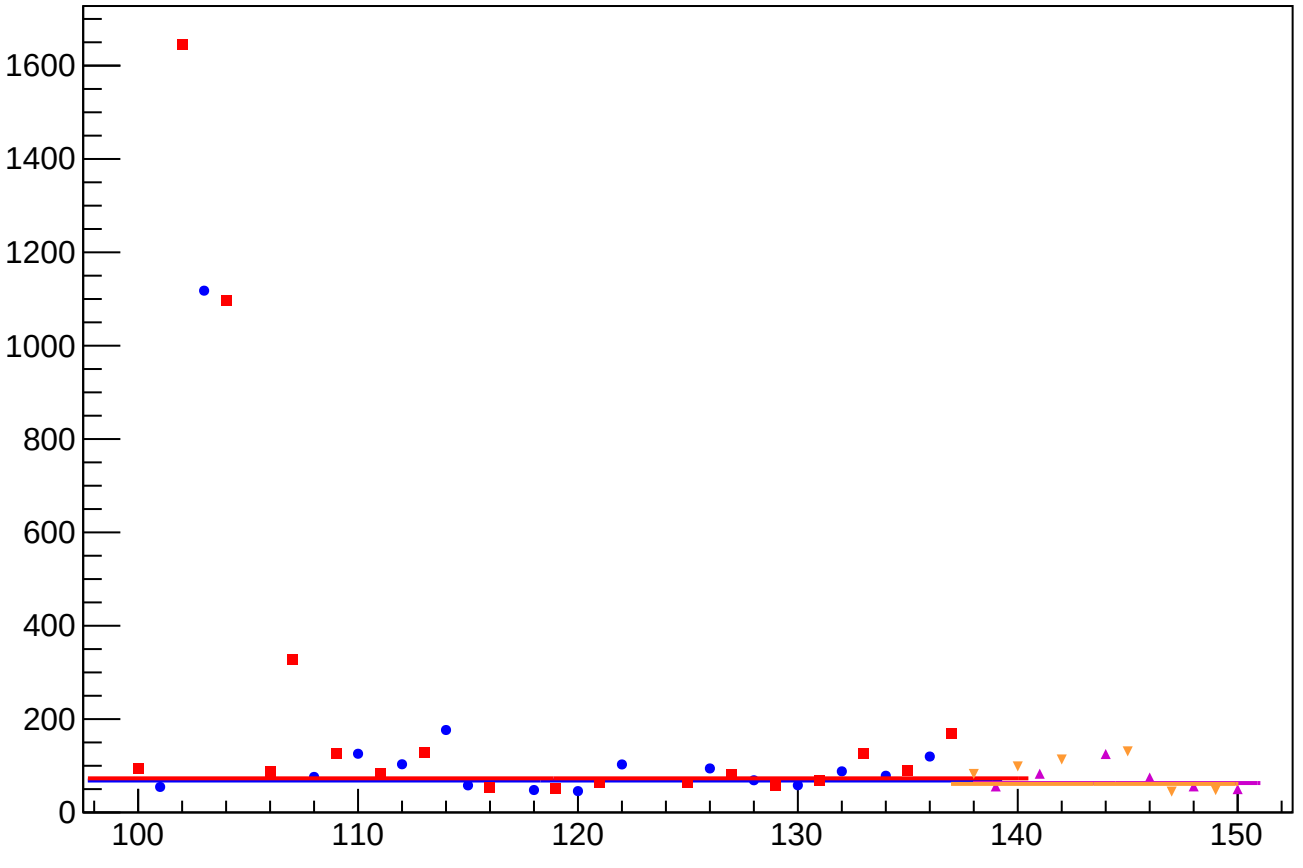
Left: -0.028+/-0.023 $\chi^2$/NDF: 15.6/11

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: -0.007+/-0.021 $\chi^2$/NDF:24.0/21

Out: -0.016+/-0.024 $\chi^2$/NDF:19.0/23

All: -0.011+/-0.016 $\chi^2$/NDF: 43.0/45




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 61.188+/-0.024 $\chi^2$/NDF:1190910.8/5

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 63.008+/-0.022 $\chi^2$/NDF:700067.9/5

Left: 62.181+/-0.016 $\chi^2$/NDF: 1894199.9/11

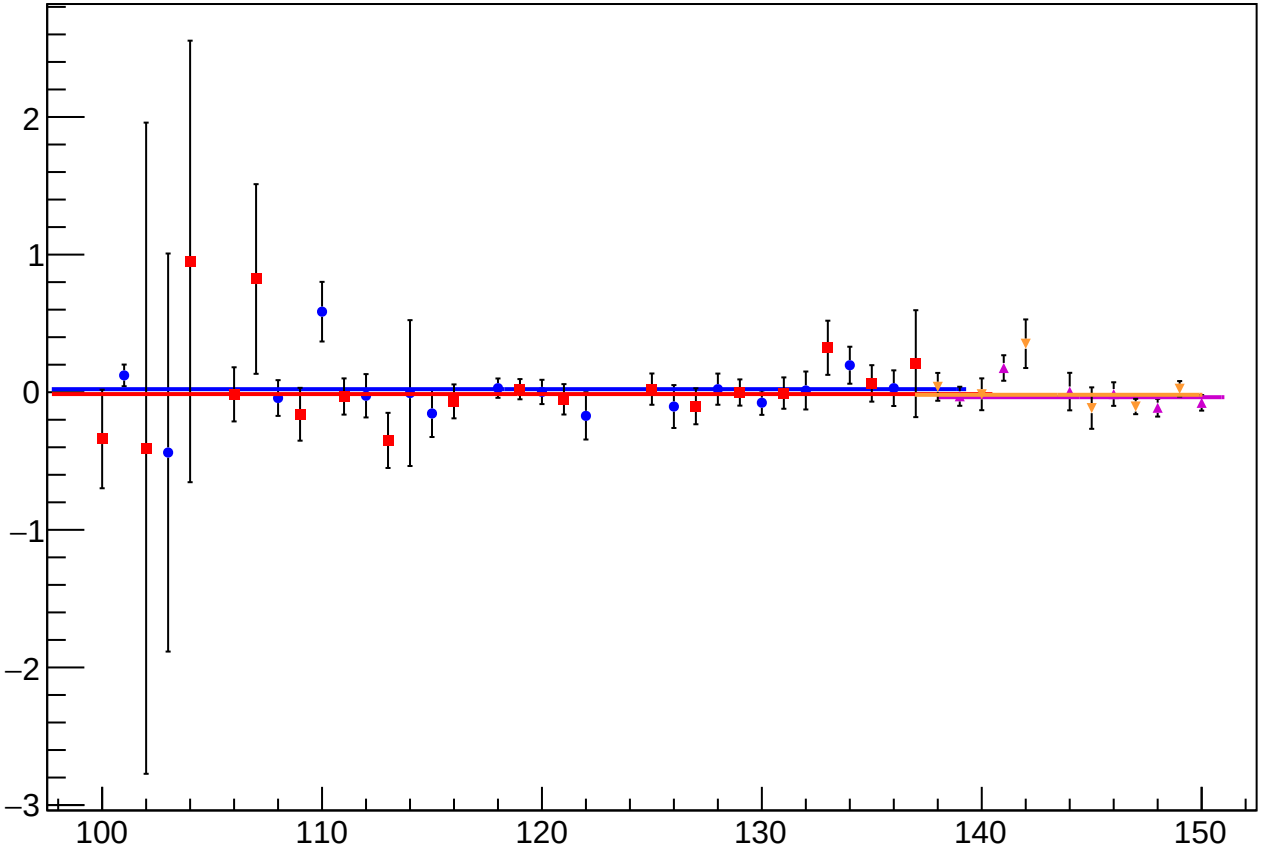
Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 65.757+/-0.015 $\chi^2$/NDF:3010028.3/21

Out: 67.134+/-0.017 $\chi^2$/NDF:4229979.5/23

All: 66.378+/-0.011 $\chi^2$/NDF: 7243723.1/45

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: -0.019+/-0.034 $\chi^2$/NDF:8.1/5

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.036+/-0.031 $\chi^2$/NDF:7.3/5

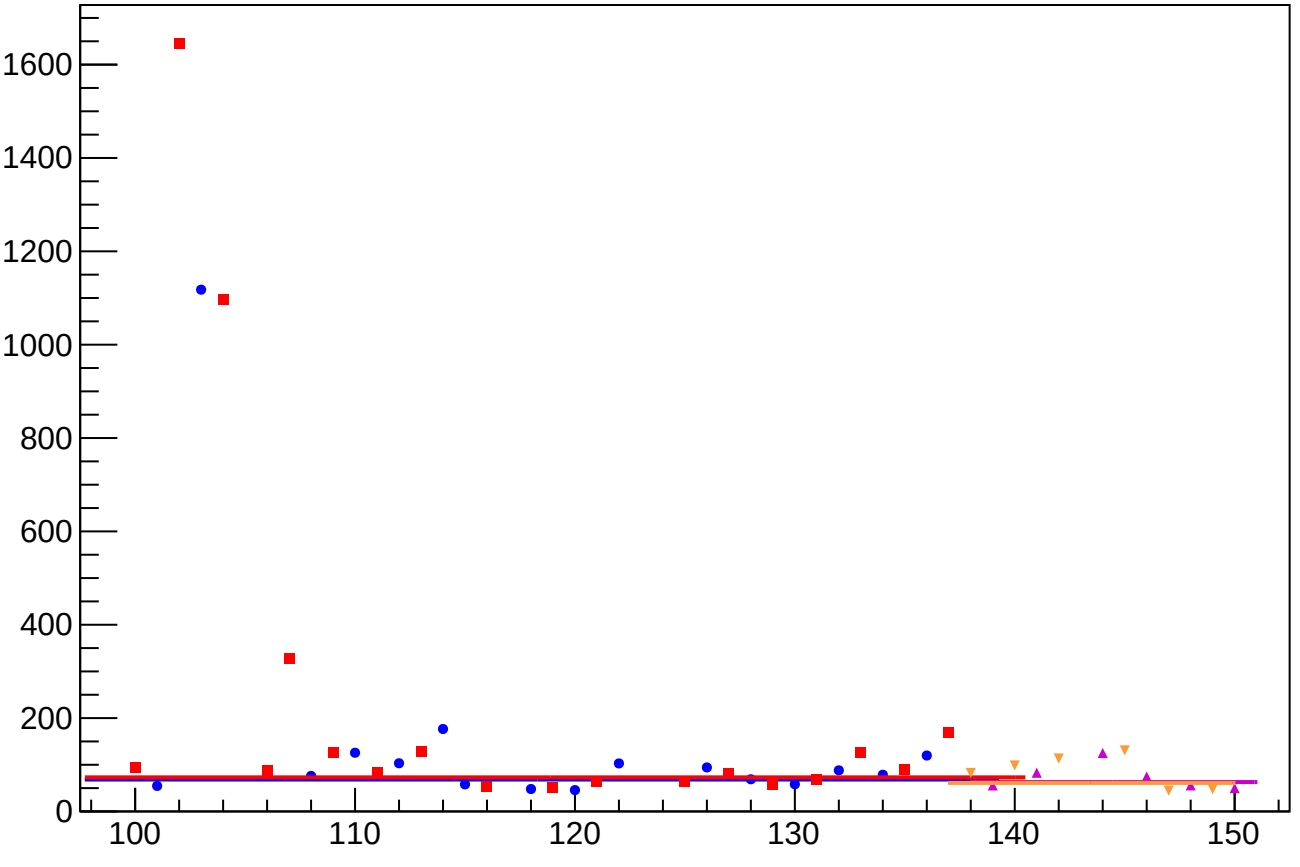
Left: -0.028+/-0.023 $\chi^2$/NDF: 15.6/11

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: -0.007+/-0.021 $\chi^2$/NDF:24.0/21

Out: -0.016+/-0.024 $\chi^2$/NDF:19.0/23

All: -0.011+/-0.016 $\chi^2$/NDF: 43.0/45




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 61.188+/-0.024 $\chi^2$/NDF:1190910.8/5

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 63.008+/-0.022 $\chi^2$/NDF:700067.9/5

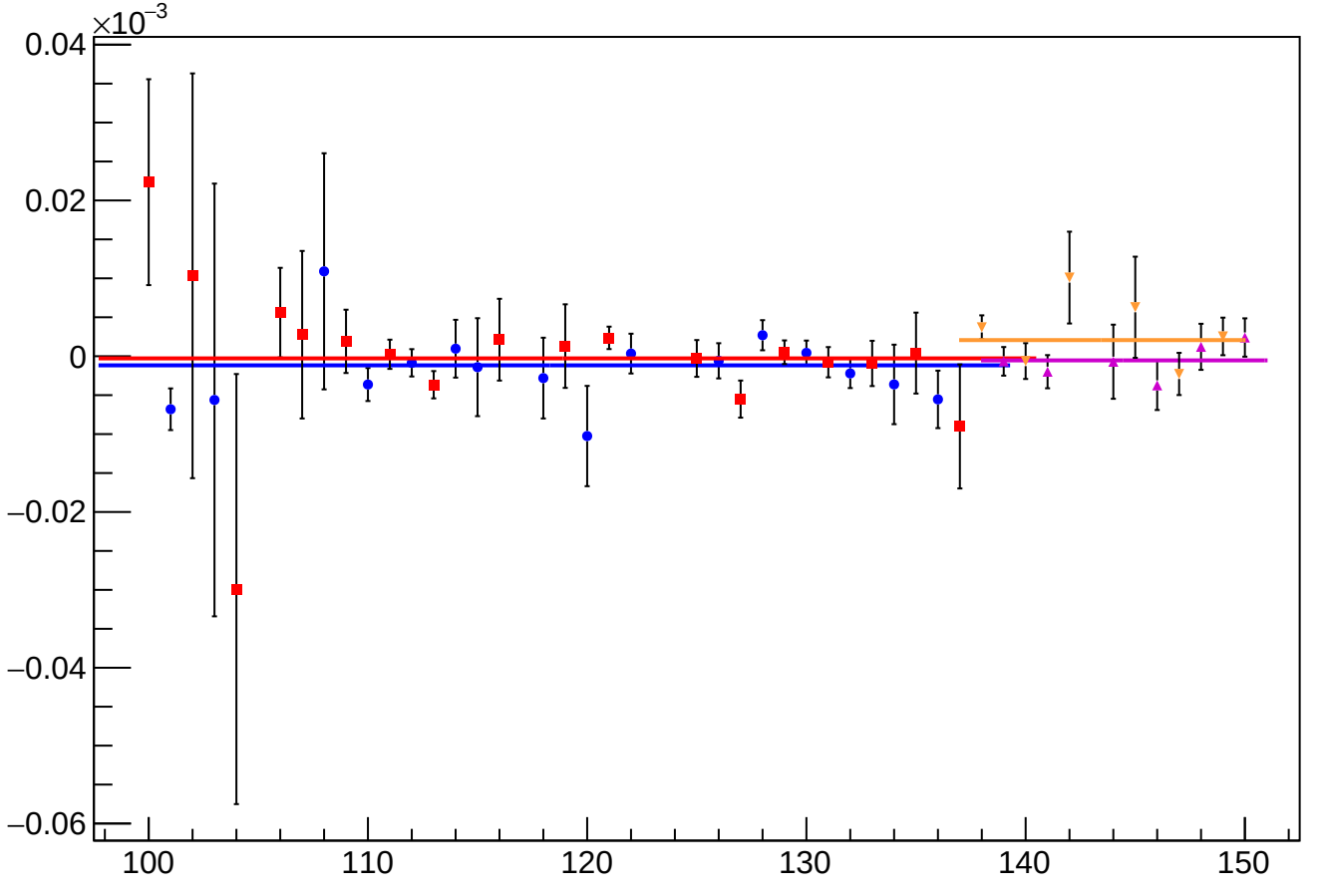
Left: 62.181+/-0.016 $\chi^2$/NDF: 1894199.9/11

Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 65.757+/-0.015 $\chi^2$/NDF:3010028.3/21

Out: 67.134+/-0.017 $\chi^2$/NDF:4229979.5/23

All: 66.378+/-0.011 $\chi^2$/NDF: 7243723.1/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.4/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.5/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.3/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 13.9/11

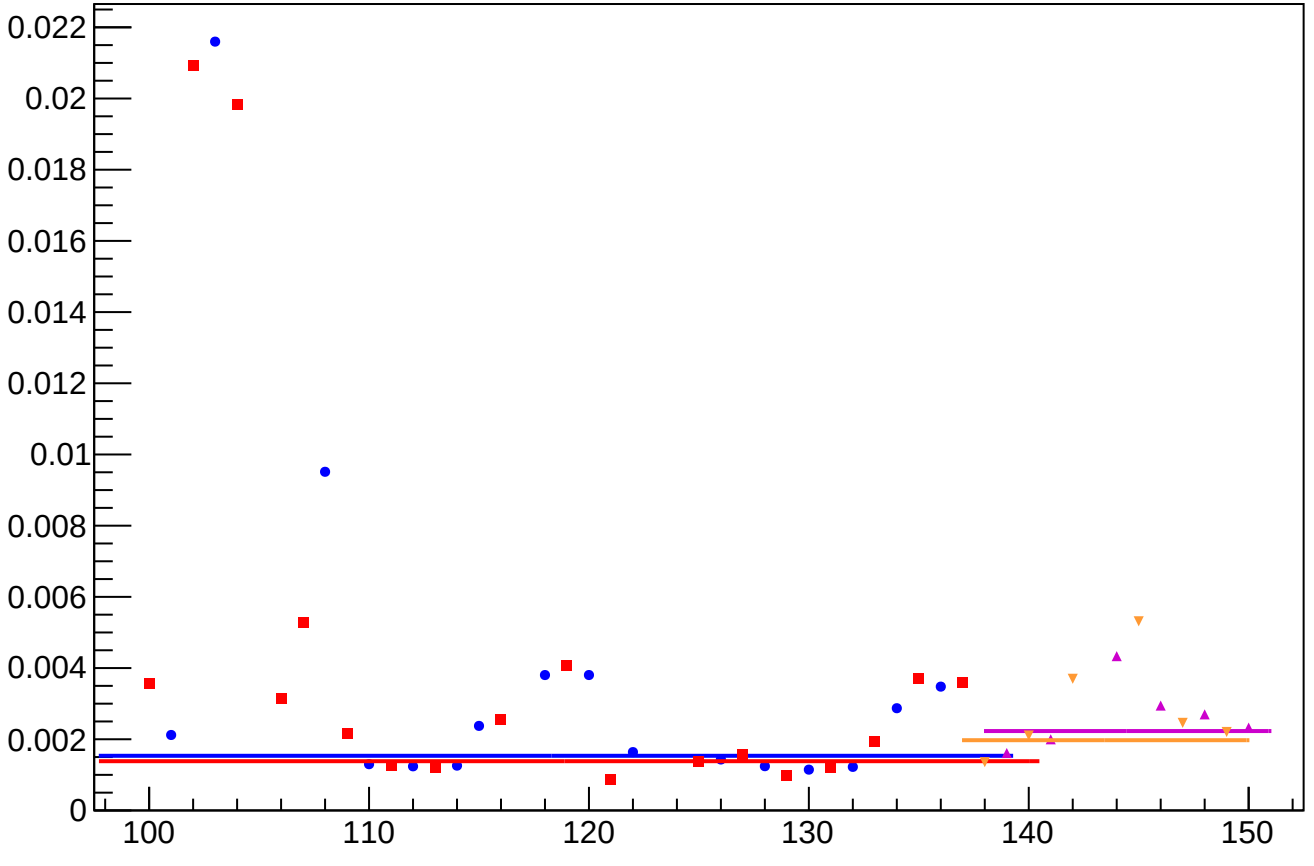
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:19.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.7/45

asym_atl1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3373907.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1111041.2/5

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4269081.2/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:796508.0/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 1970655.7/11

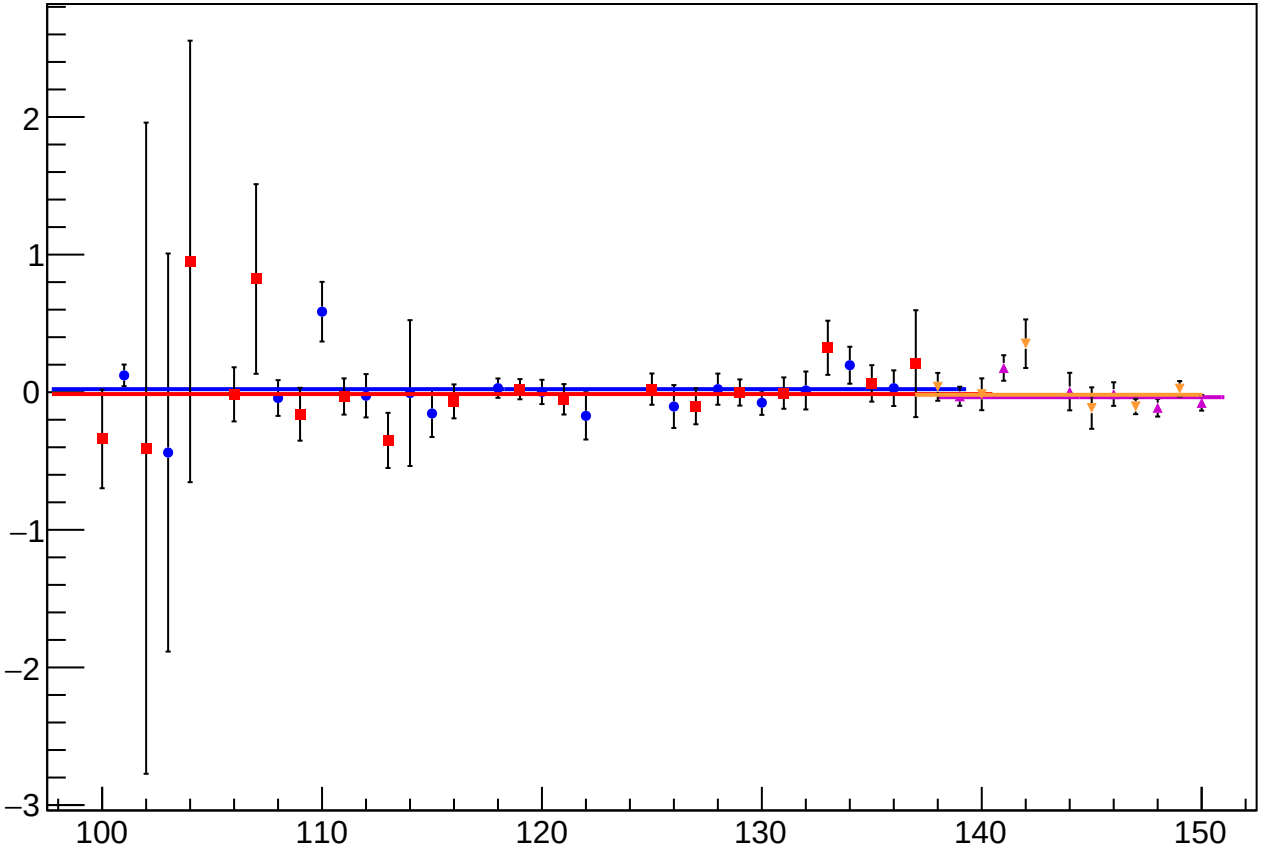
Right: 0.001+/-0.000 $\chi^2$/NDF: 7697891.2/33

In: 0.002+/-0.000 $\chi^2$/NDF:4812658.1/21

Out: 0.002+/-0.000 $\chi^2$/NDF:5866538.4/23

All: 0.002+/-0.000 $\chi^2$/NDF: 10800301.8/45

asym_atl1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: -0.019+/-0.034 $\chi^2$/NDF:8.1/5

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.036+/-0.031 $\chi^2$/NDF:7.3/5

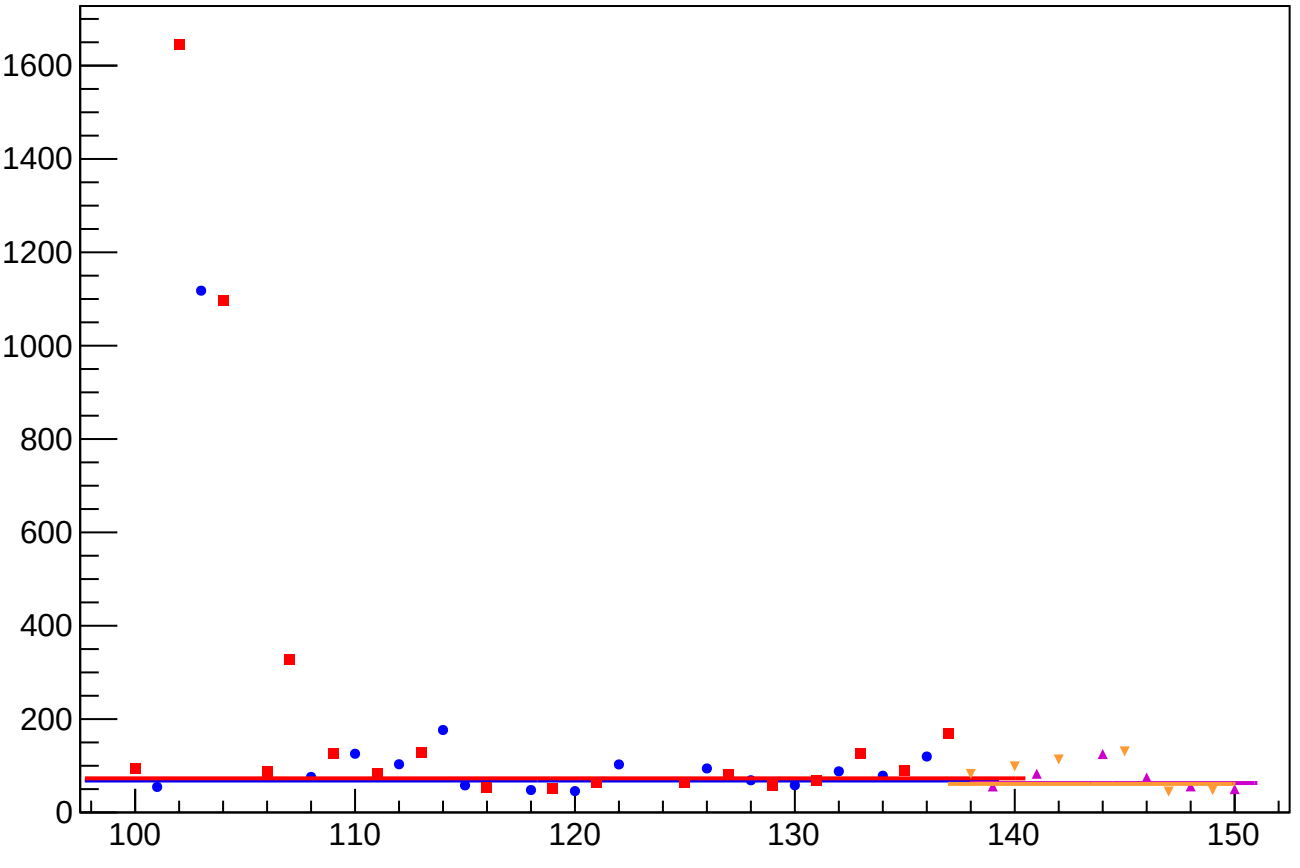
Left: -0.028+/-0.023 $\chi^2$/NDF: 15.6/11

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: -0.007+/-0.021 $\chi^2$/NDF:24.0/21

Out: -0.016+/-0.024 $\chi^2$/NDF:19.0/23

All: -0.011+/-0.016 $\chi^2$/NDF: 43.0/45




Right In: 68.428+/-0.021 $\chi^2$/NDF: 2278168.9/15

Left Out: 61.190+/-0.024 $\chi^2$/NDF:1190821.3/5

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 63.008+/-0.022 $\chi^2$/NDF:700074.6/5

Left: 62.182+/-0.016 $\chi^2$/NDF: 1894111.0/11

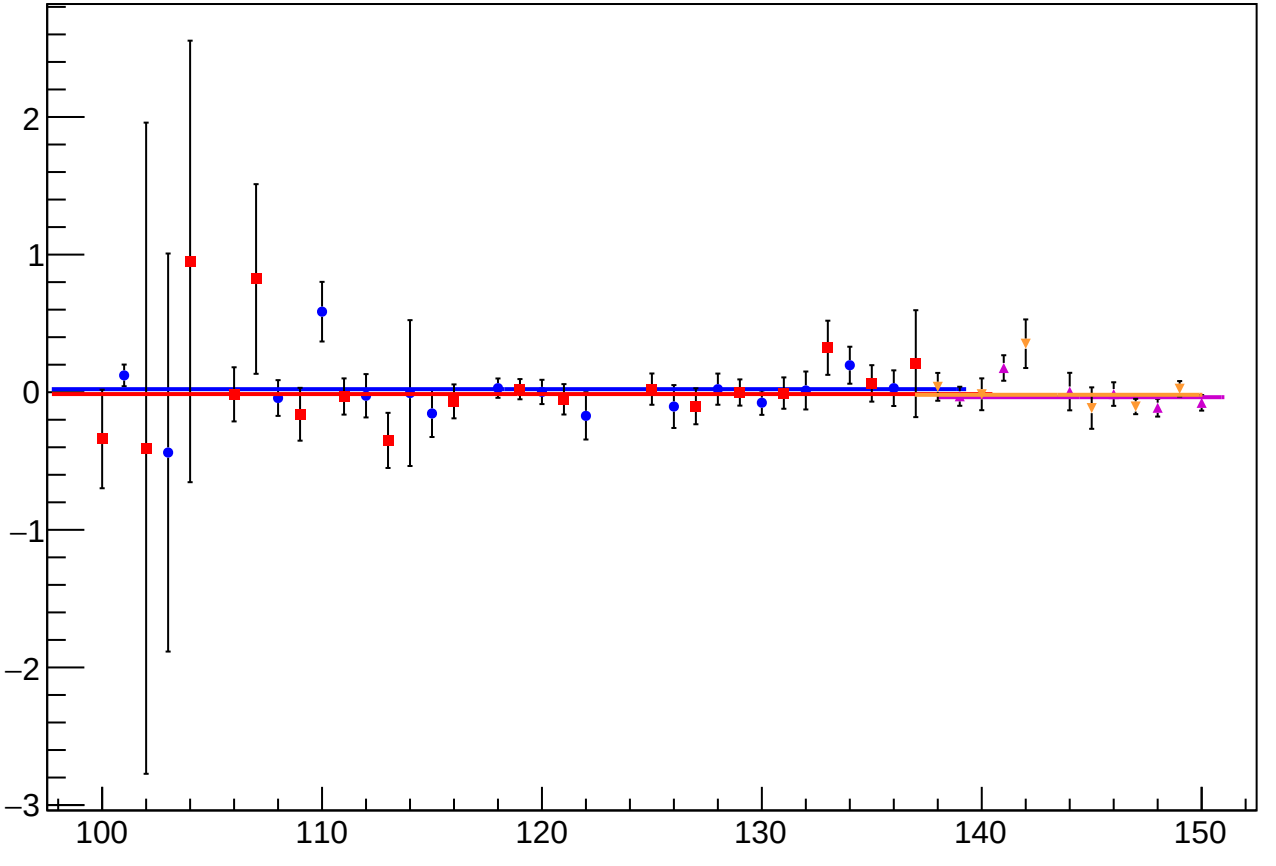
Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 65.756+/-0.015 $\chi^2$/NDF:3010110.6/21

Out: 67.135+/-0.017 $\chi^2$/NDF:4229858.9/23

All: 66.378+/-0.011 $\chi^2$/NDF: 7243691.1/45

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: -0.019+/-0.034 $\chi^2$/NDF:8.1/5

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.036+/-0.031 $\chi^2$/NDF:7.3/5

Left: -0.028+/-0.023 $\chi^2$/NDF: 15.6/11

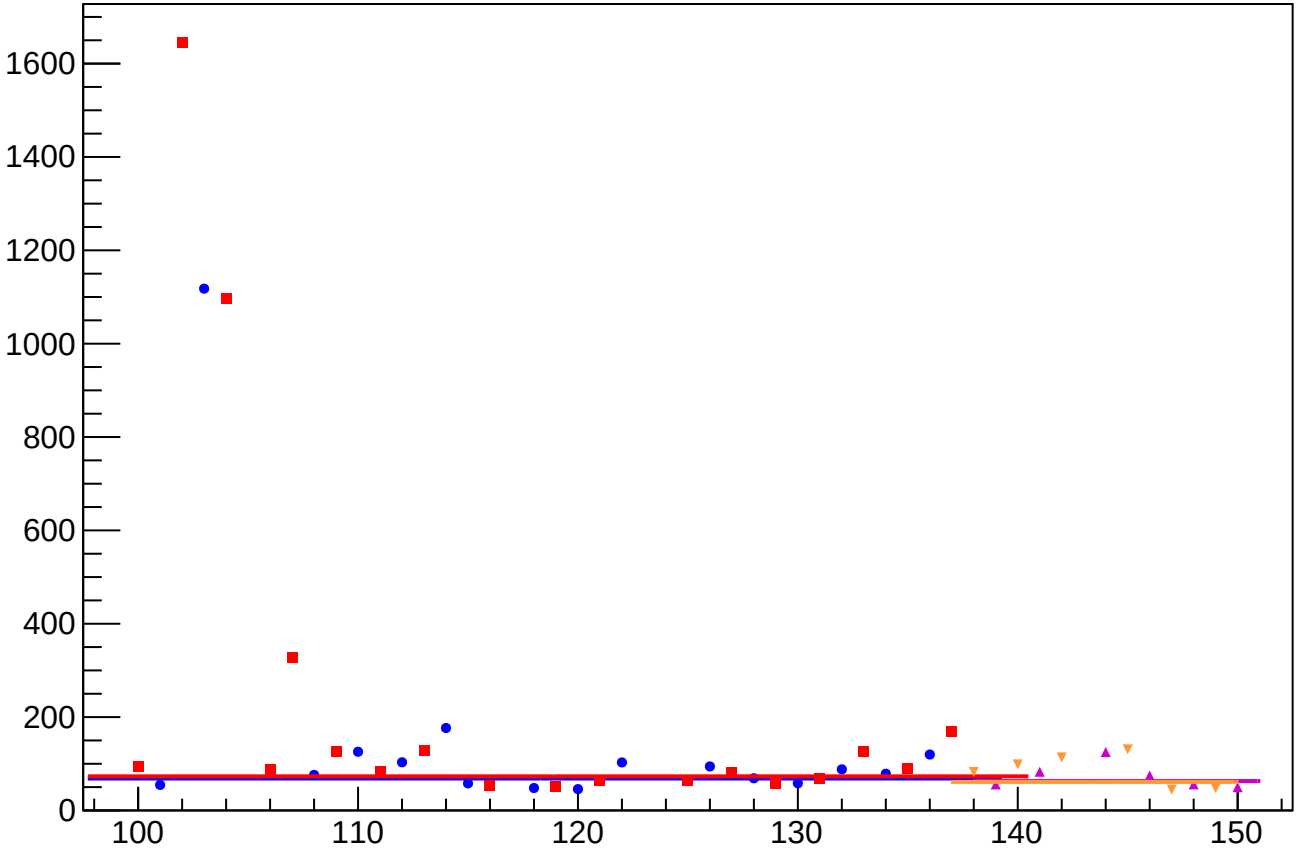
Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: -0.007+/-0.021 $\chi^2$/NDF:24.0/21

Out: -0.016+/-0.024 $\chi^2$/NDF:19.0/23

All: -0.011+/-0.016 $\chi^2$/NDF: 43.0/45

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 68.428+/-0.021 $\chi^2$/NDF: 2278168.9/15

Left Out: 61.190+/-0.024 $\chi^2$/NDF:1190821.3/5

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 63.008+/-0.022 $\chi^2$/NDF:700074.6/5

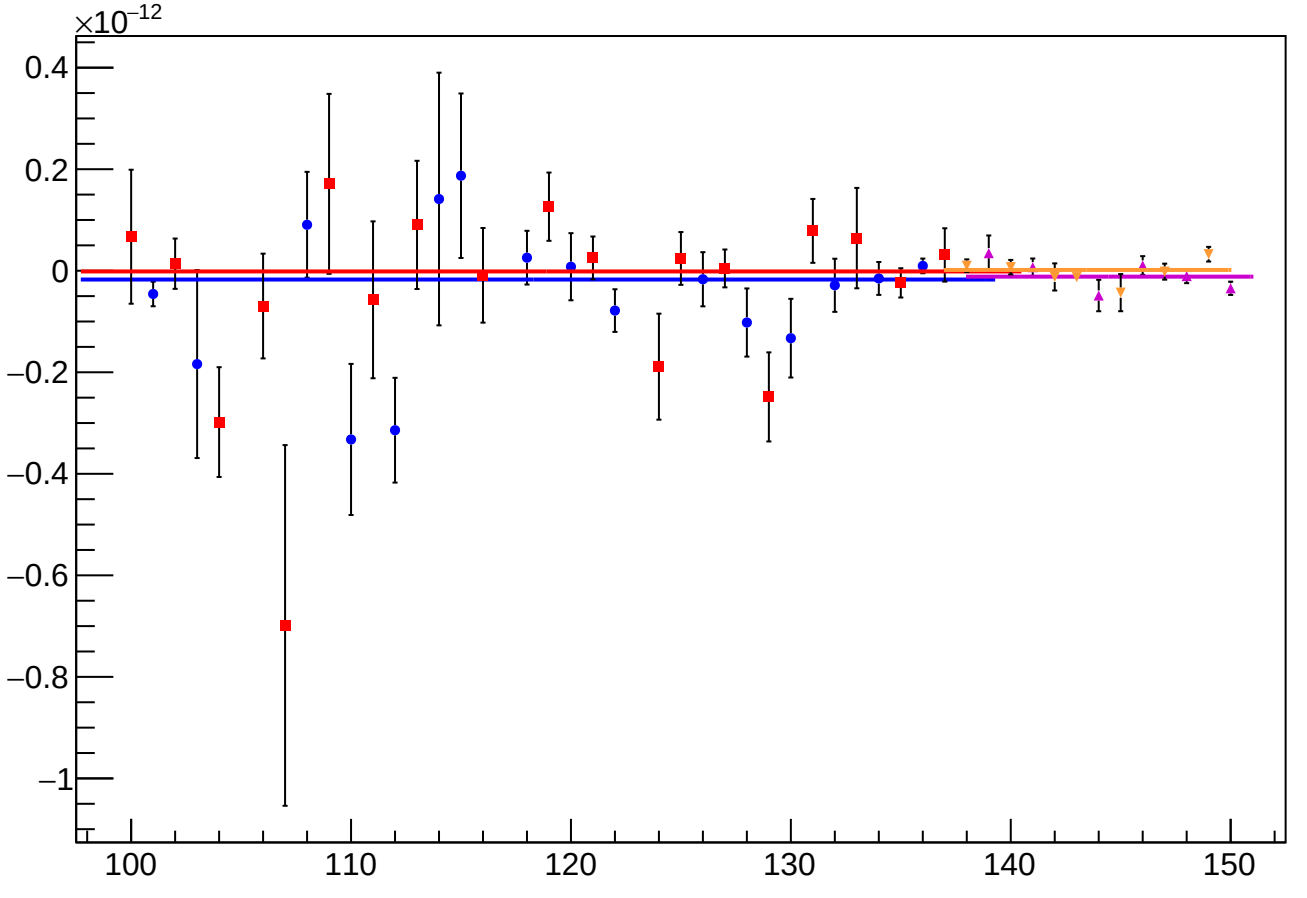
Left: 62.182+/-0.016 $\chi^2$/NDF: 1894111.0/11

Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 65.756+/-0.015 $\chi^2$/NDF:3010110.6/21

Out: 67.135+/-0.017 $\chi^2$/NDF:4229858.9/23

All: 66.378+/-0.011 $\chi^2$/NDF: 7243691.1/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 28.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.9/5

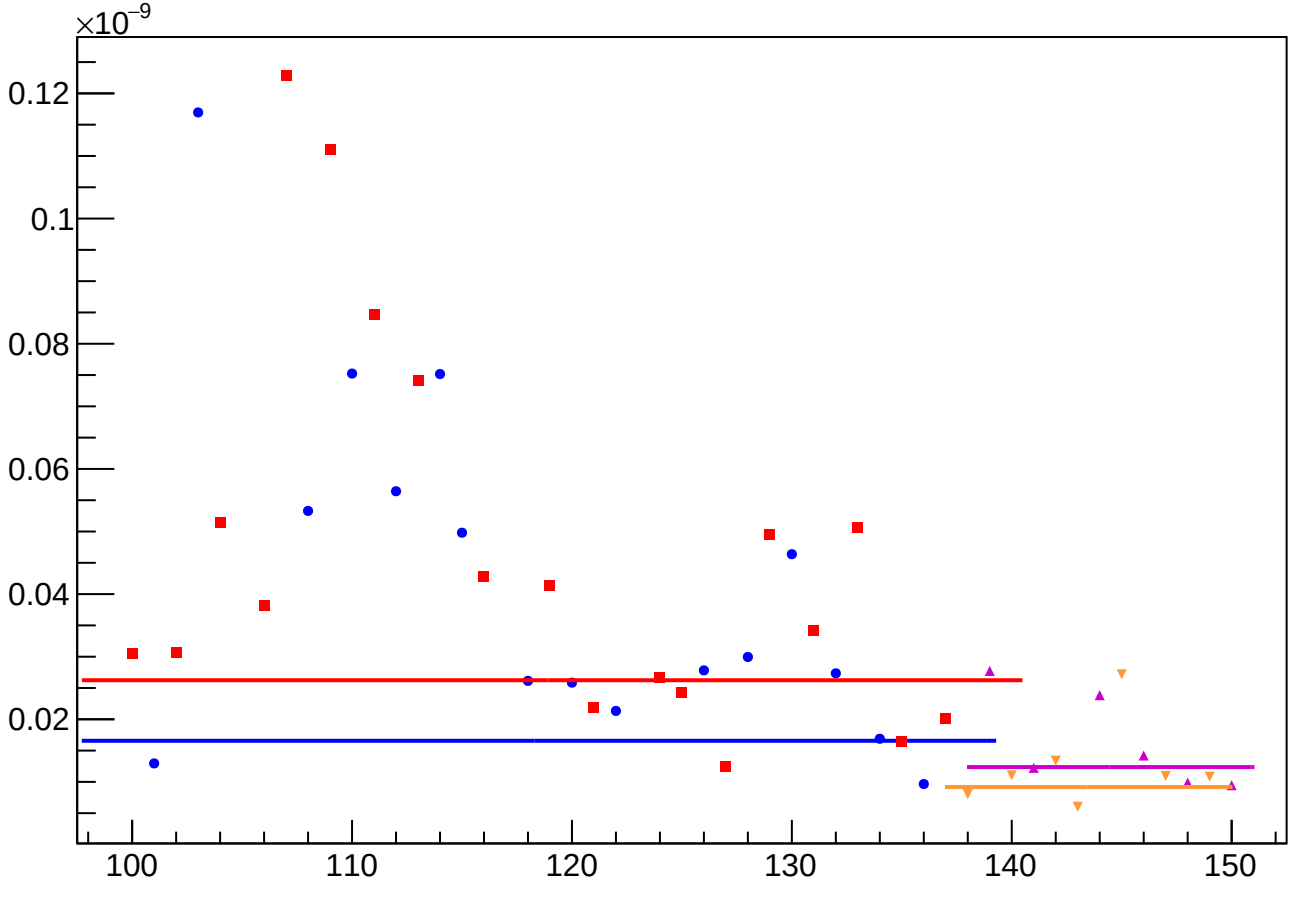
Left: -0.000+/-0.000 $\chi^2$/NDF: 20.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 61.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:41.6/25

All: -0.000+/-0.000 $\chi^2$/NDF: 82.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2823424.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:863263.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2346394.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:844600.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1957063.4/12

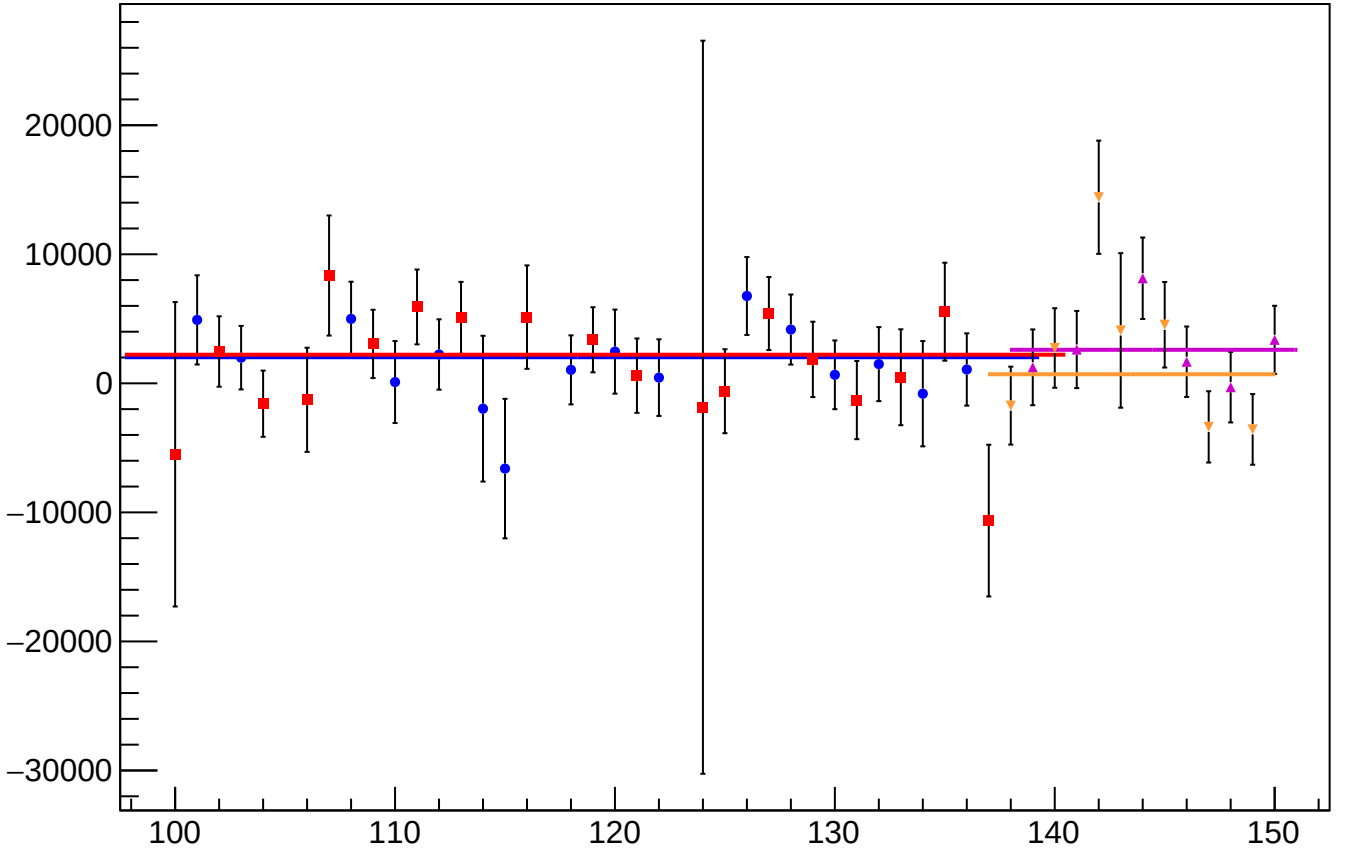
Right: 0.000+/-0.000 $\chi^2$/NDF: 5786992.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3900373.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5707874.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9808805.3/47

# reg_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2022.690+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 702.148+/-1240.077 $\chi^2$/NDF:17.1/6

Right Out: 2217.261+/-756.139 $\chi^2$/NDF: 18.1/18

Left In: 2597.269+/-1162.543 $\chi^2$/NDF:4.6/5

Left: 1710.801+/-848.128 $\chi^2$/NDF: 23.0/12

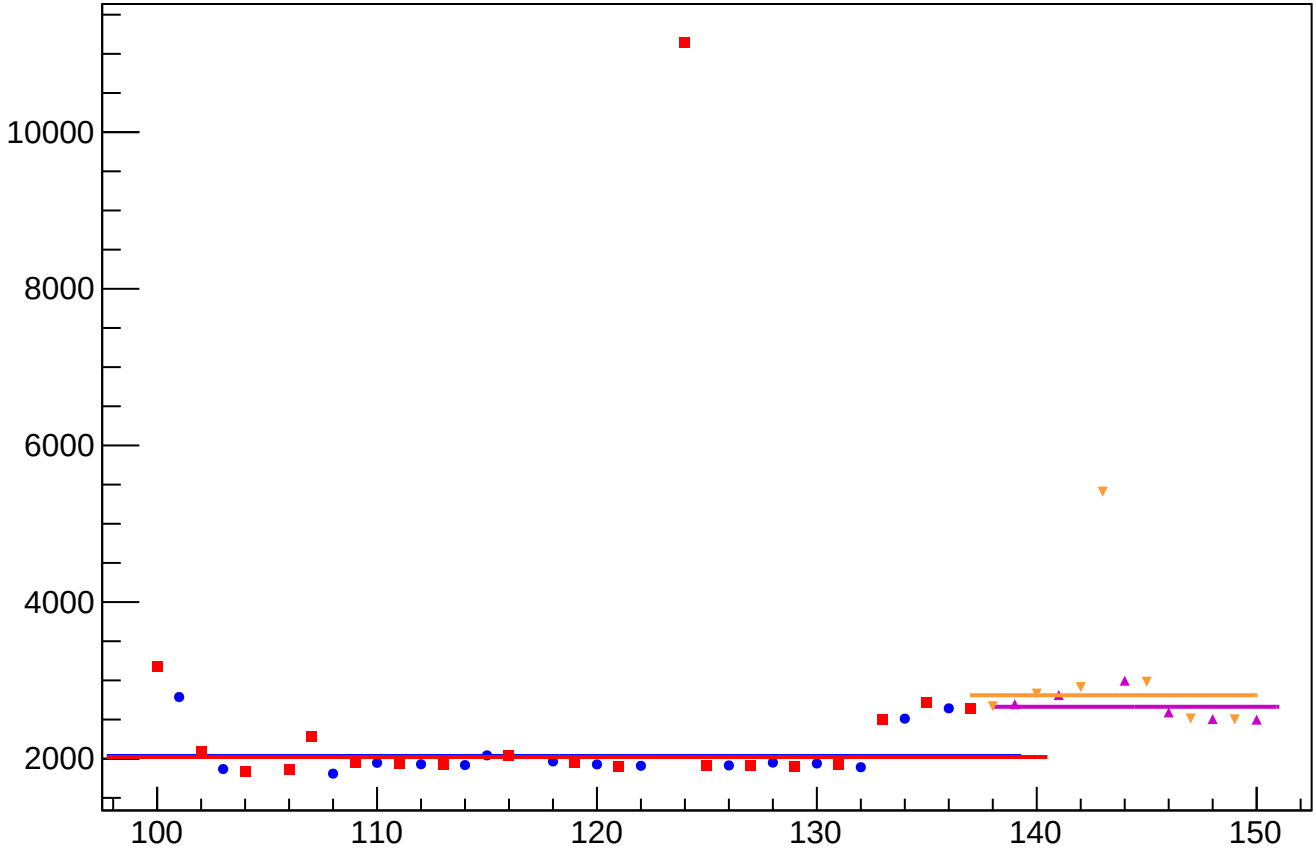
Right: 2121.027+/-537.553 $\chi^2$/NDF: 27.8/34

In: 2196.108+/-638.676 $\chi^2$/NDF:14.4/21

Out: 1806.621+/-645.590 $\chi^2$/NDF:36.4/25

All: 2003.461+/-454.037 $\chi^2$/NDF: 50.9/47

# reg_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.7/15

Left Out: 2810.457+/-0.877 $\chi^2$/NDF:436421.7/6

Right Out: 2021.545+/-0.535 $\chi^2$/NDF: 390321.3/18

Left In: 2663.176+/-0.822 $\chi^2$/NDF:43249.0/5

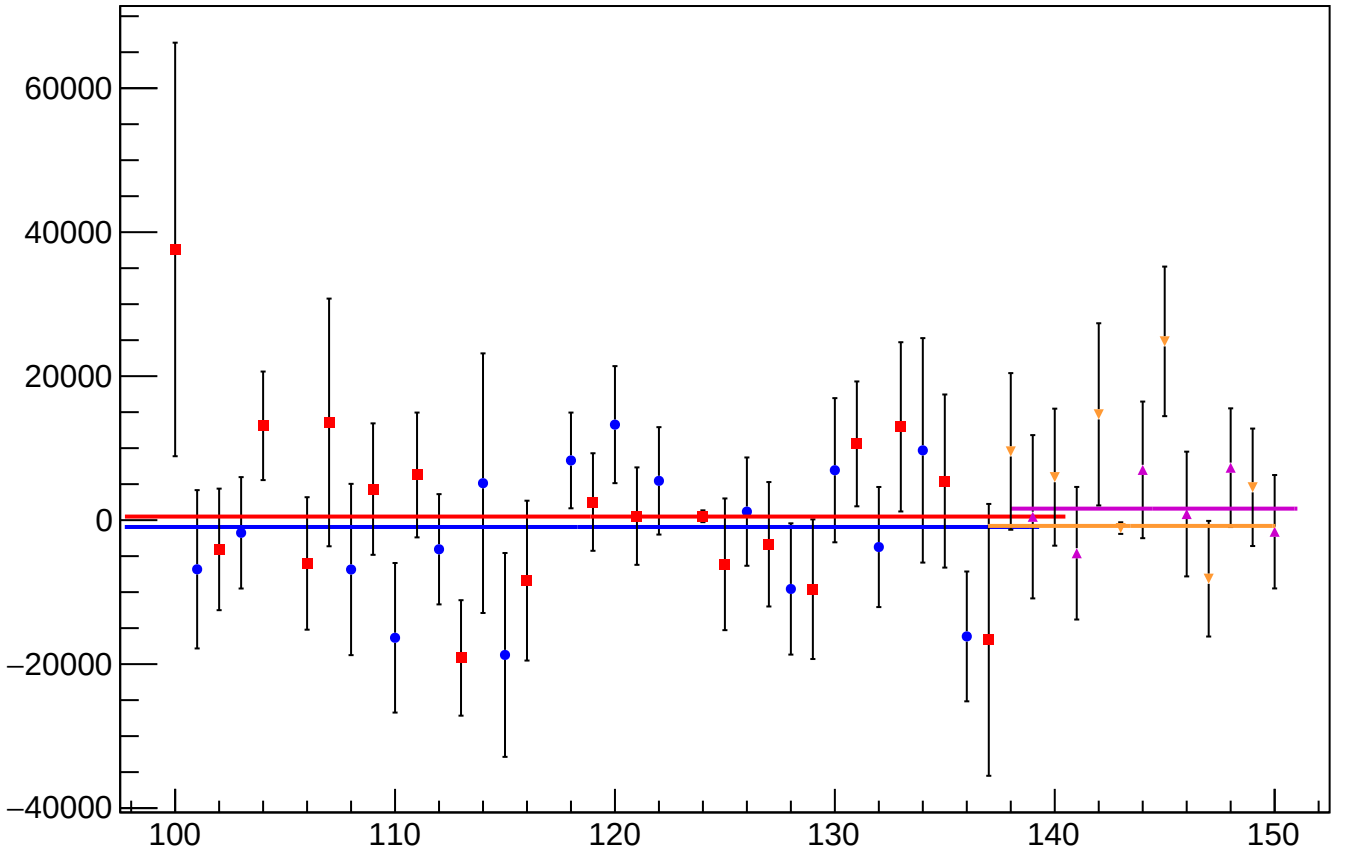
Left: 2732.068+/-0.600 $\chi^2$/NDF: 494686.1/12

Right: 2027.784+/-0.380 $\chi^2$/NDF: 653557.3/34

In: 2224.007+/-0.452 $\chi^2$/NDF:715004.6/21

Out: 2235.363+/-0.457 $\chi^2$/NDF:1416809.0/25

All: 2229.624+/-0.321 $\chi^2$/NDF: 2132126.3/47




Right In: -950.519+/-2278.532 $\chi^2$/NDF: 15.3/15

Left Out: -801.352+/-790.454 $\chi^2$/NDF:10.4/6

Right Out: 497.346+/-768.286 $\chi^2$/NDF: 18.5/18

Left In: 1598.896+/-3655.659 $\chi^2$/NDF:1.4/5

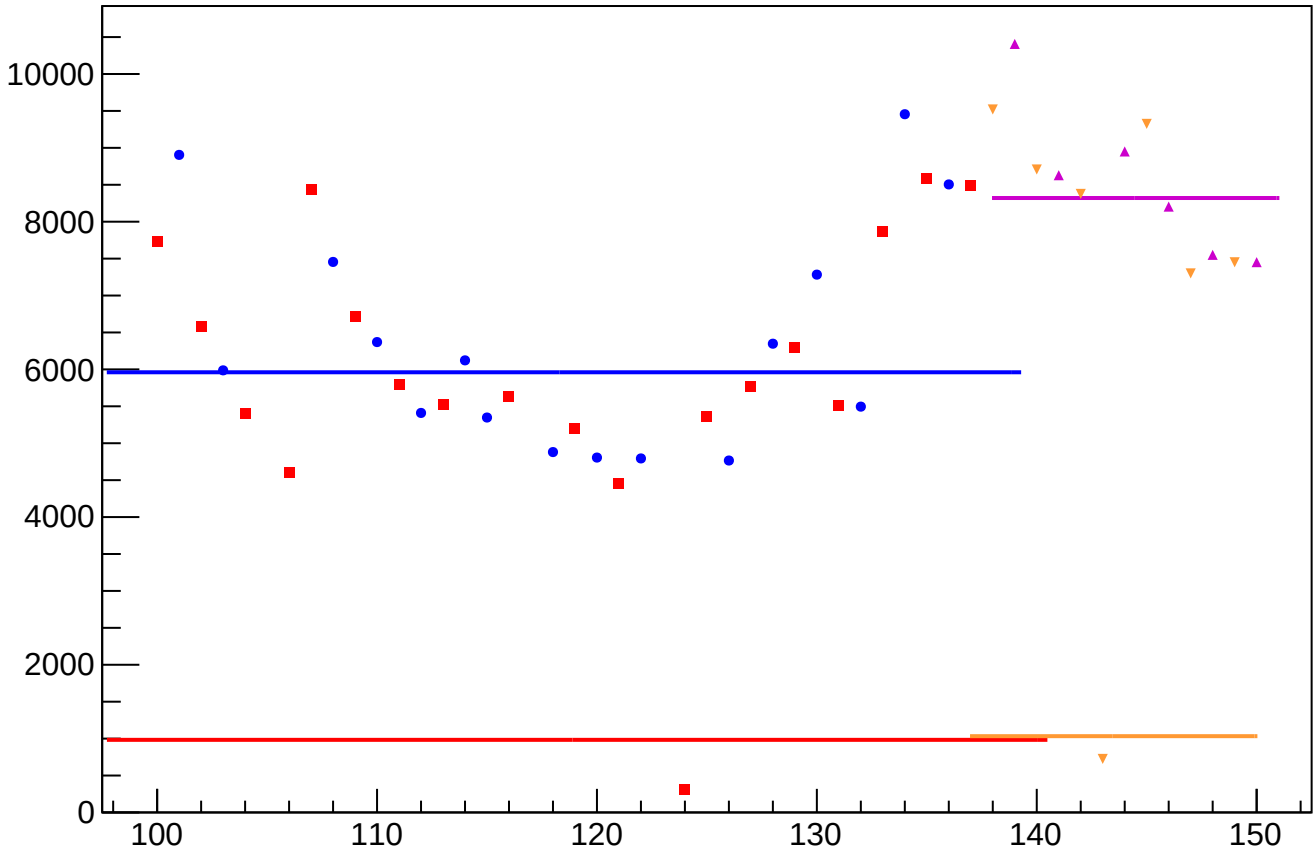
Left: -694.143+/-772.599 $\chi^2$/NDF: 12.3/12

Right: 349.538+/-728.015 $\chi^2$/NDF: 34.2/34

In: -237.212+/-1933.677 $\chi^2$/NDF:17.1/21

Out: -133.538+/-550.931 $\chi^2$/NDF:30.3/25

All: -141.322+/-529.845 $\chi^2$/NDF: 47.4/47




Right In: 5960.802+/-1.611 $\chi^2$/NDF: 689267.6/15

Left Out: 1032.952+/-0.559 $\chi^2$/NDF:7212286.4/6

Right Out: 983.316+/-0.543 $\chi^2$/NDF: 11416689.8/18

Left In: 8320.696+/-2.585 $\chi^2$/NDF:120880.6/5

Left: 1358.466+/-0.546 $\chi^2$/NDF: 14926633.4/12

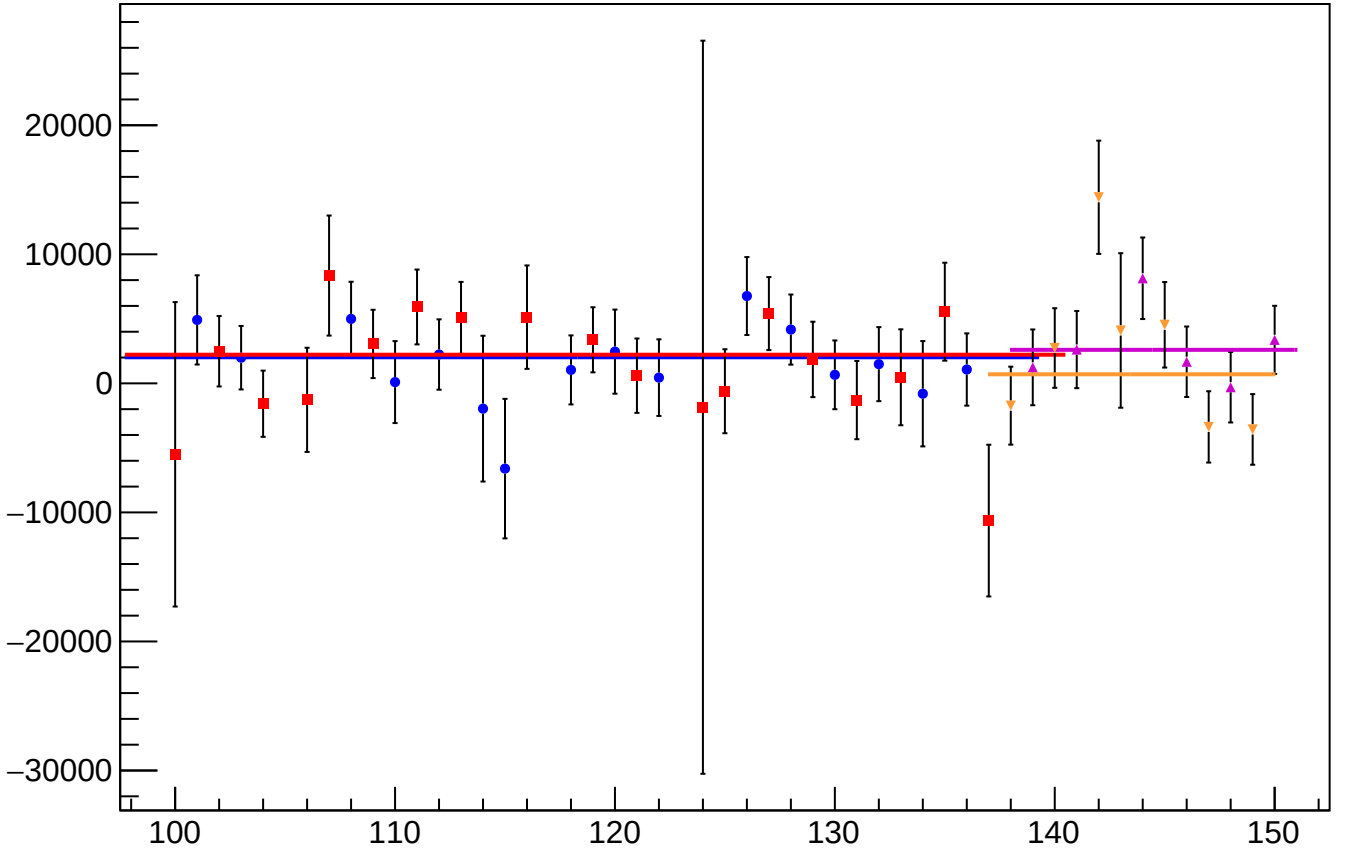
Right: 1491.453+/-0.515 $\chi^2$/NDF: 20675824.3/34

In: 6621.083+/-1.367 $\chi^2$/NDF:1410410.9/21

Out: 1007.428+/-0.390 $\chi^2$/NDF:18633031.4/25

All: 1428.907+/-0.375 $\chi^2$/NDF: 35633845.2/4

# cor_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 702.264+/-1240.077 $\chi^2$/NDF:17.1/6

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 2597.382+/-1162.543 $\chi^2$/NDF:4.6/5

Left: 1710.916+/-848.128 $\chi^2$/NDF: 23.0/12

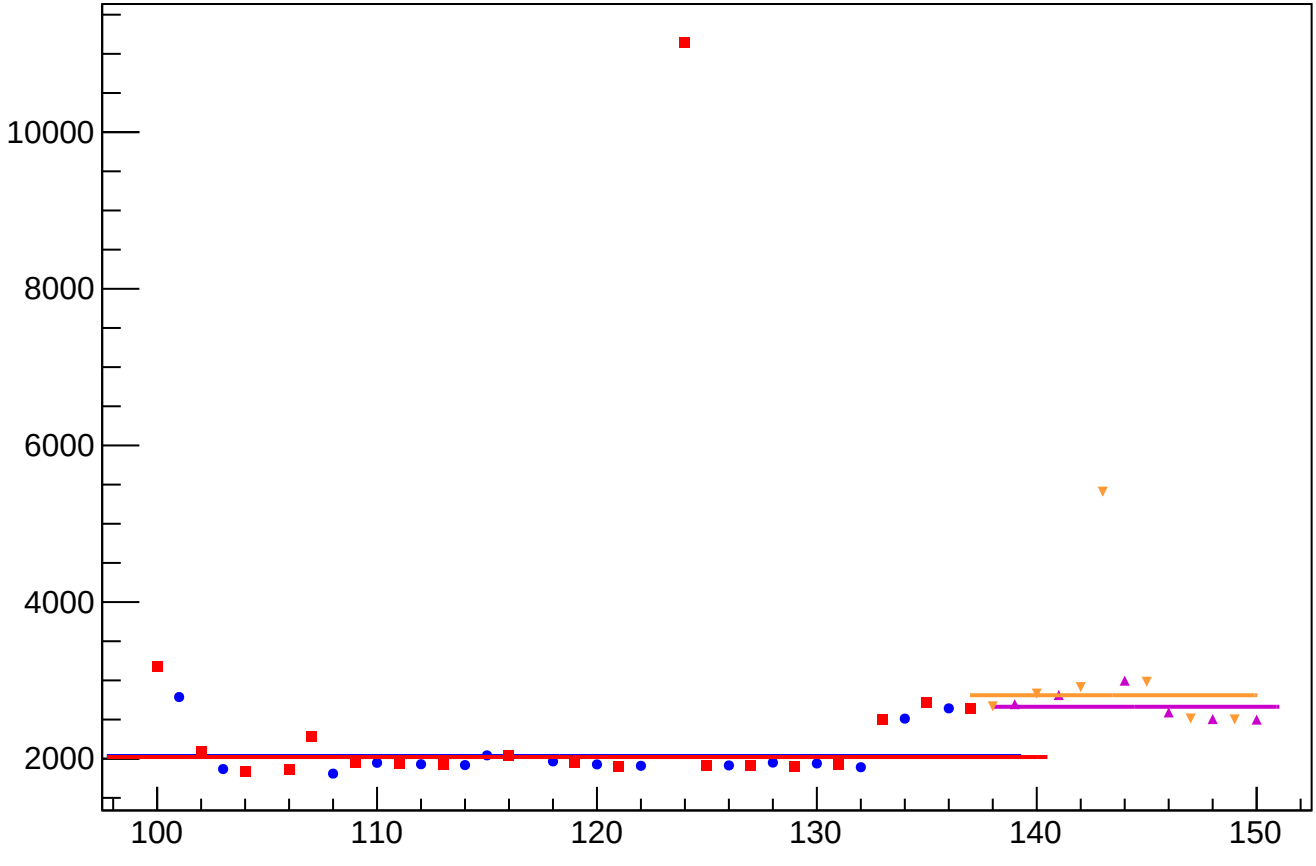
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2196.230+/-638.676 $\chi^2$/NDF:14.4/21

Out: 1807.986+/-645.595 $\chi^2$/NDF:36.4/25

All: 2004.199+/-454.039 $\chi^2$/NDF: 50.9/47

# cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 2810.457+/-0.877 $\chi^2$/NDF:436421.7/6

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2663.176+/-0.822 $\chi^2$/NDF:43249.0/5

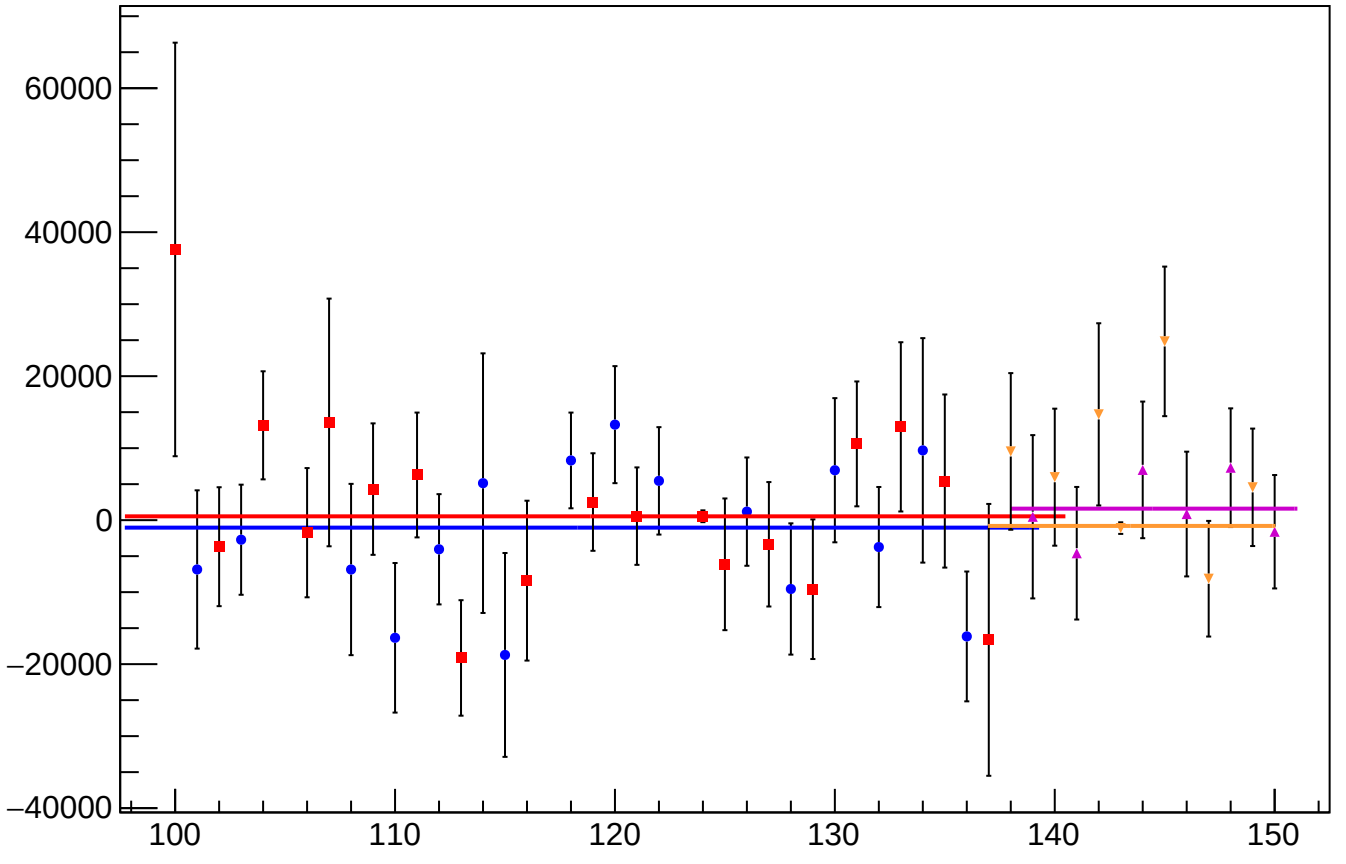
Left: 2732.068+/-0.600 $\chi^2$/NDF: 494686.1/12

Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2224.007+/-0.452 $\chi^2$/NDF:715004.6/21

Out: 2235.382+/-0.457 $\chi^2$/NDF:1416785.3/25

All: 2229.633+/-0.321 $\chi^2$/NDF: 2132103.7/47




Right In: -1037.942+/-2276.180 $\chi^2$/NDF: 15.4/15

Left Out: -801.156+/-790.380 $\chi^2$/NDF:10.4/6

Right Out: 530.662+/-767.947 $\chi^2$/NDF: 18.0/18

Left In: 1598.994+/-3655.655 $\chi^2$/NDF:1.4/5

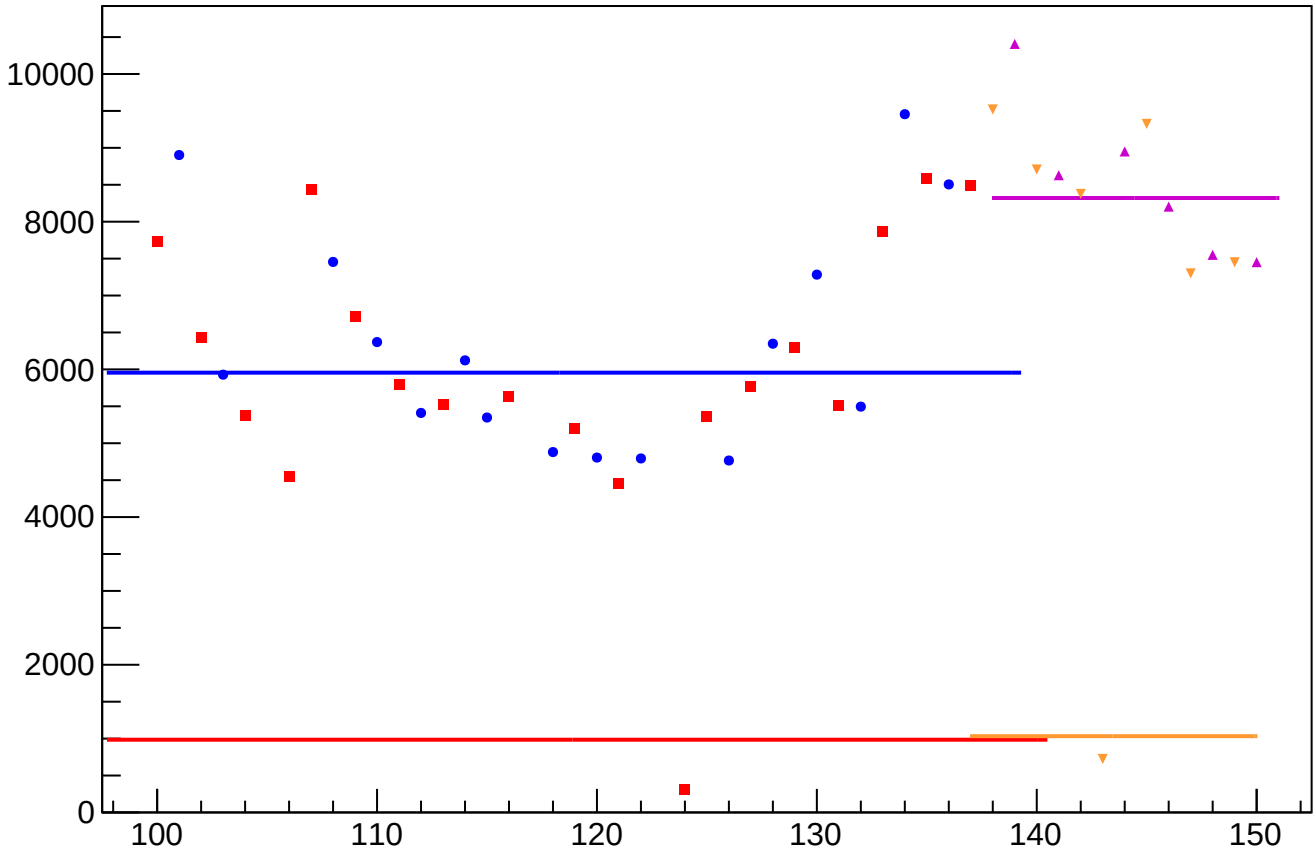
Left: -693.970+/-772.530 $\chi^2$/NDF: 12.3/12

Right: 370.358+/-727.649 $\chi^2$/NDF: 33.8/34

In: -301.242+/-1932.238 $\chi^2$/NDF:17.2/21

Out: -116.079+/-550.781 $\chi^2$/NDF:29.9/25

All: -129.993+/-529.682 $\chi^2$/NDF: 47.1/47




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 1032.829+/-0.559 $\chi^2$/NDF:7212471.3/6

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 8320.685+/-2.585 $\chi^2$/NDF:120881.3/5

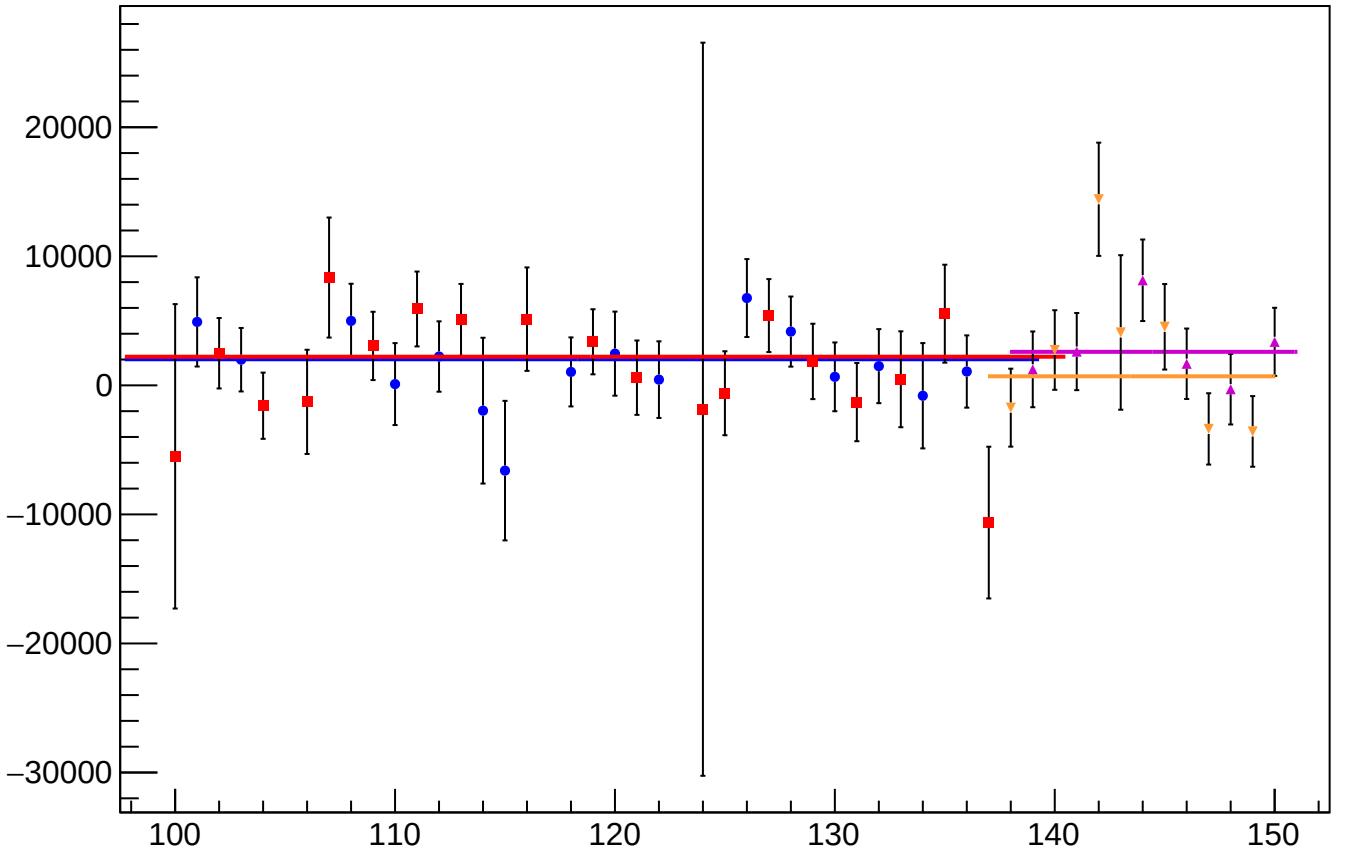
Left: 1358.291+/-0.546 $\chi^2$/NDF: 14927133.7/12

Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

In: 6616.379+/-1.366 $\chi^2$/NDF:1413258.6/21

Out: 1008.249+/-0.389 $\chi^2$/NDF:18629074.7/25

All: 1429.680+/-0.375 $\chi^2$/NDF: 35624134.4/4




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 702.264+/-1240.077 $\chi^2$/NDF:17.1/6

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 2597.382+/-1162.543 $\chi^2$/NDF:4.6/5

Left: 1710.916+/-848.128 $\chi^2$/NDF: 23.0/12

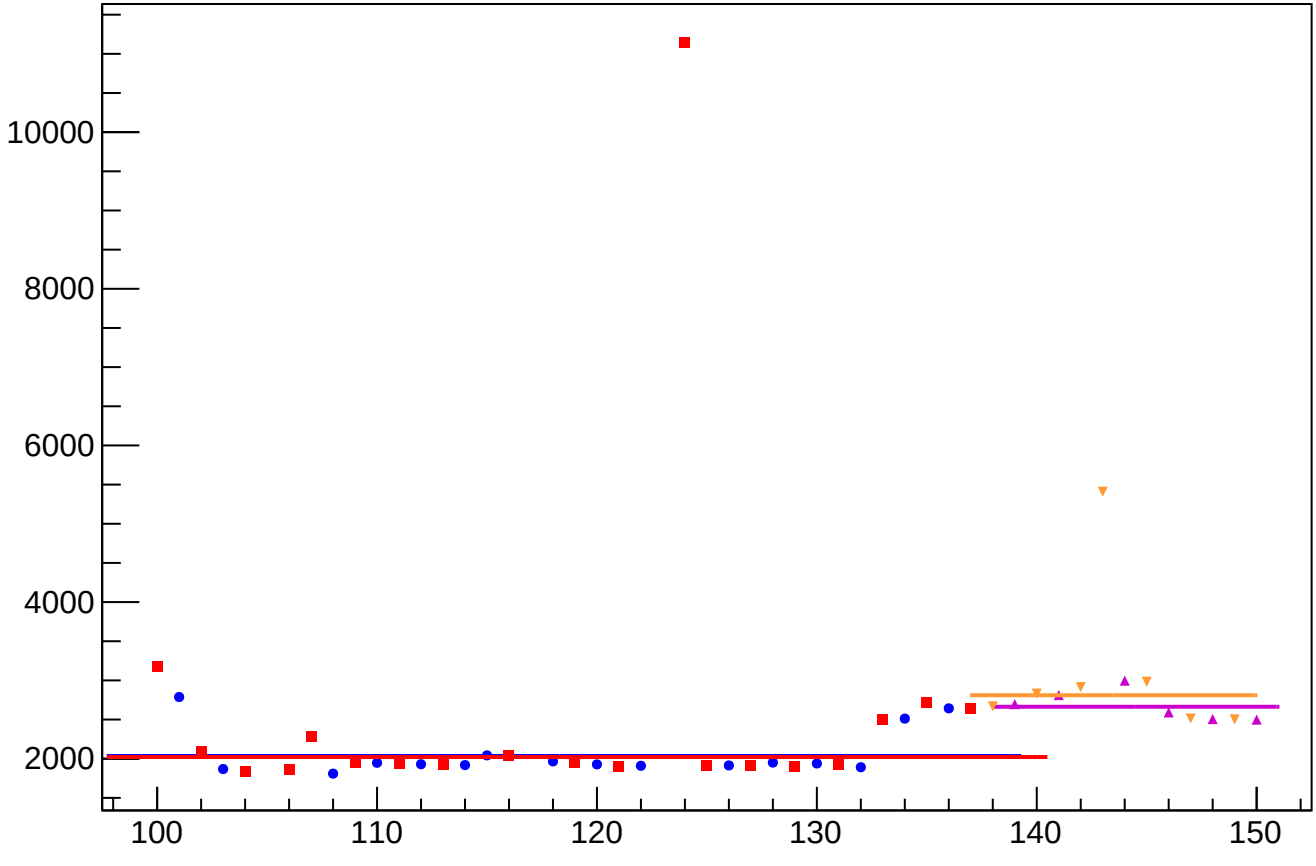
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2196.230+/-638.676 $\chi^2$/NDF:14.4/21

Out: 1807.986+/-645.595 $\chi^2$/NDF:36.4/25

All: 2004.199+/-454.039 $\chi^2$/NDF: 50.9/47

# eigen_cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 2810.457+/-0.877 $\chi^2$/NDF:436421.7/6

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2663.176+/-0.822 $\chi^2$/NDF:43249.0/5

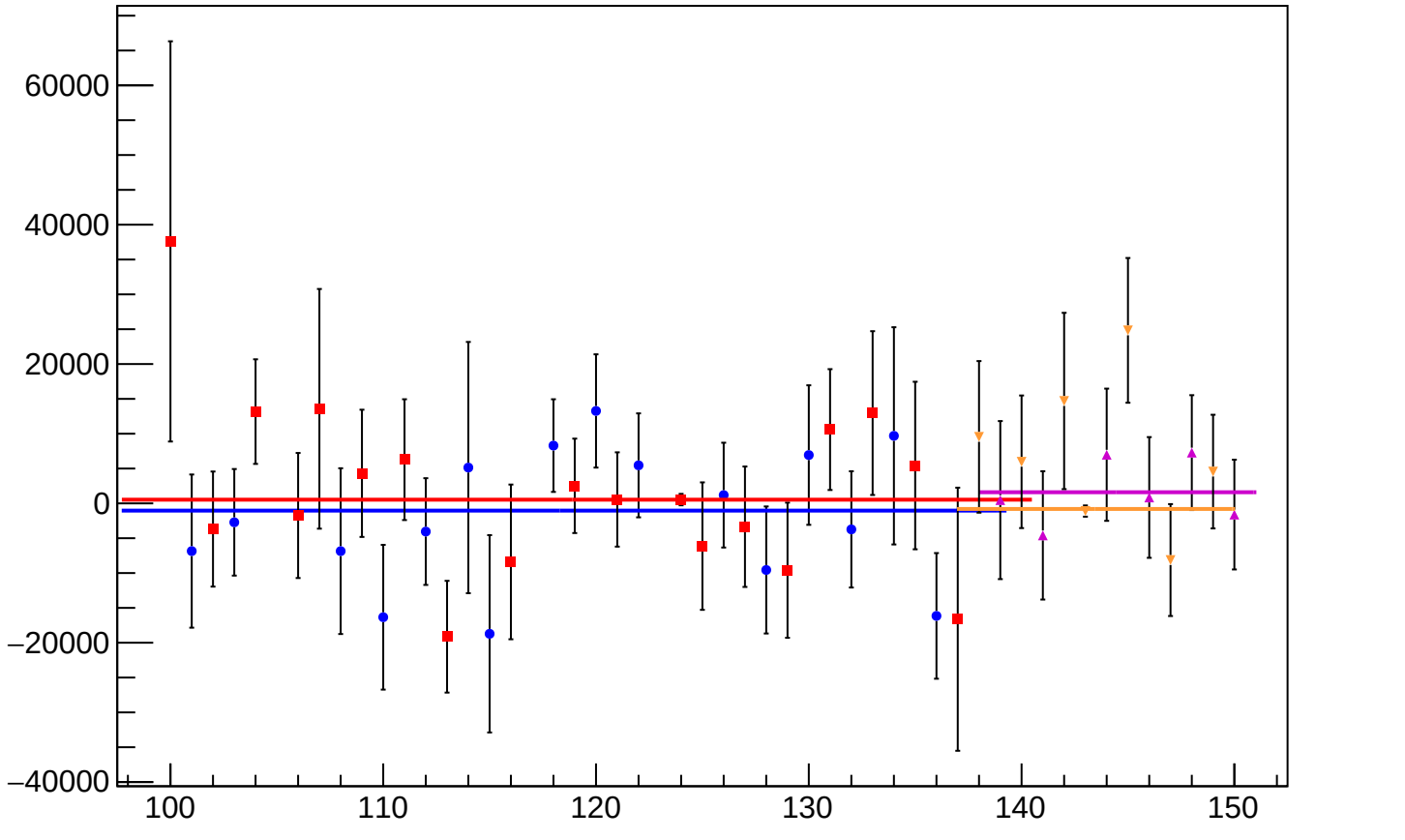
Left: 2732.068+/-0.600 $\chi^2$/NDF: 494686.1/12

Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2224.007+/-0.452 $\chi^2$/NDF:715004.6/21

Out: 2235.382+/-0.457 $\chi^2$/NDF:1416785.3/25

All: 2229.633+/-0.321 $\chi^2$/NDF: 2132103.7/47




Right In: -1037.942+/-2276.180 $\chi^2$/NDF: 15.4/15

Left Out: -801.156+/-790.380 $\chi^2$/NDF:10.4/6

Right Out: 530.662+/-767.947 $\chi^2$/NDF: 18.0/18

Left In: 1598.994+/-3655.655 $\chi^2$/NDF:1.4/5

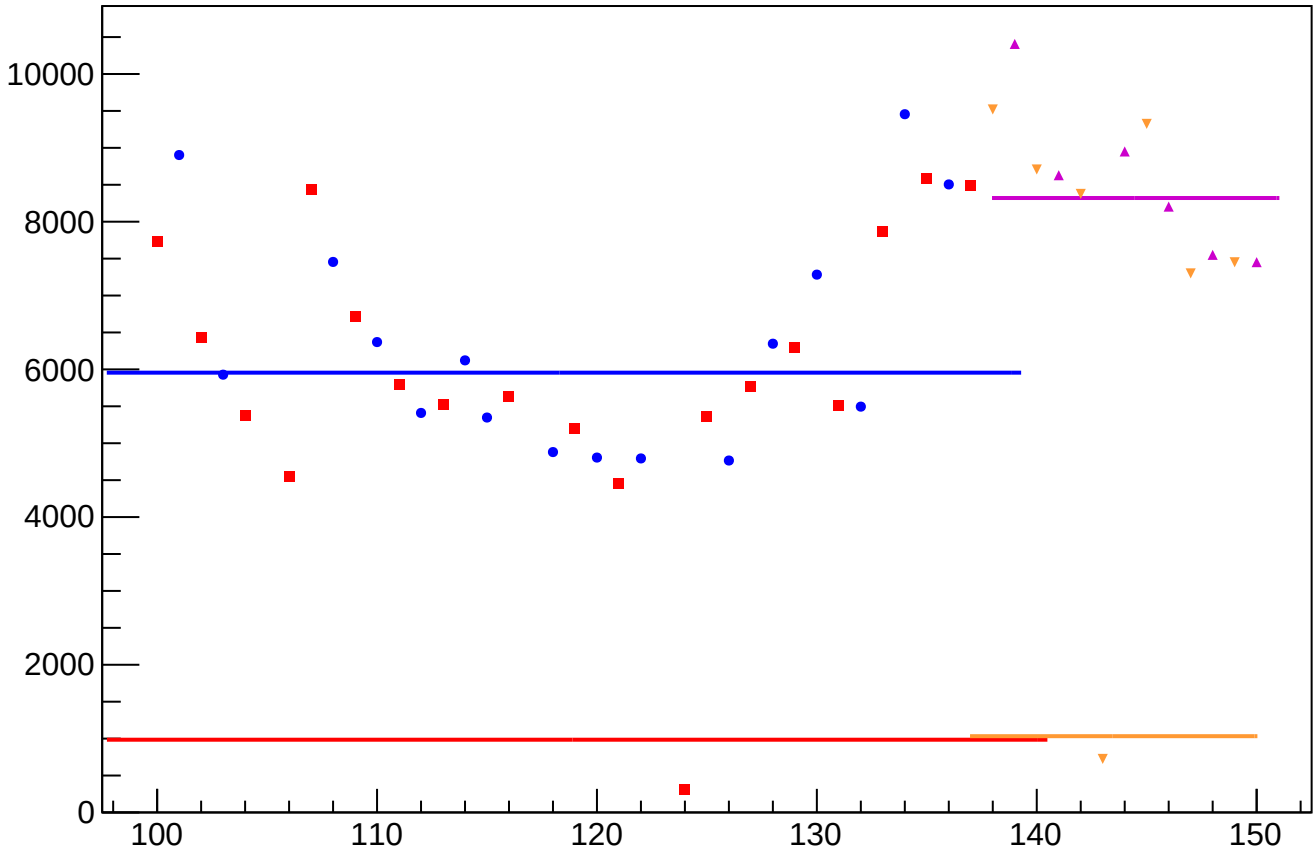
Left: -693.970+/-772.530 $\chi^2$/NDF: 12.3/12

Right: 370.358+/-727.649 $\chi^2$/NDF: 33.8/34

In: -301.242+/-1932.238 $\chi^2$/NDF:17.2/21

Out: -116.079+/-550.781 $\chi^2$/NDF:29.9/25

All: -129.993+/-529.682 $\chi^2$/NDF: 47.1/47




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 1032.829+/-0.559 $\chi^2$/NDF:7212471.3/6

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 8320.685+/-2.585 $\chi^2$/NDF:120881.3/5

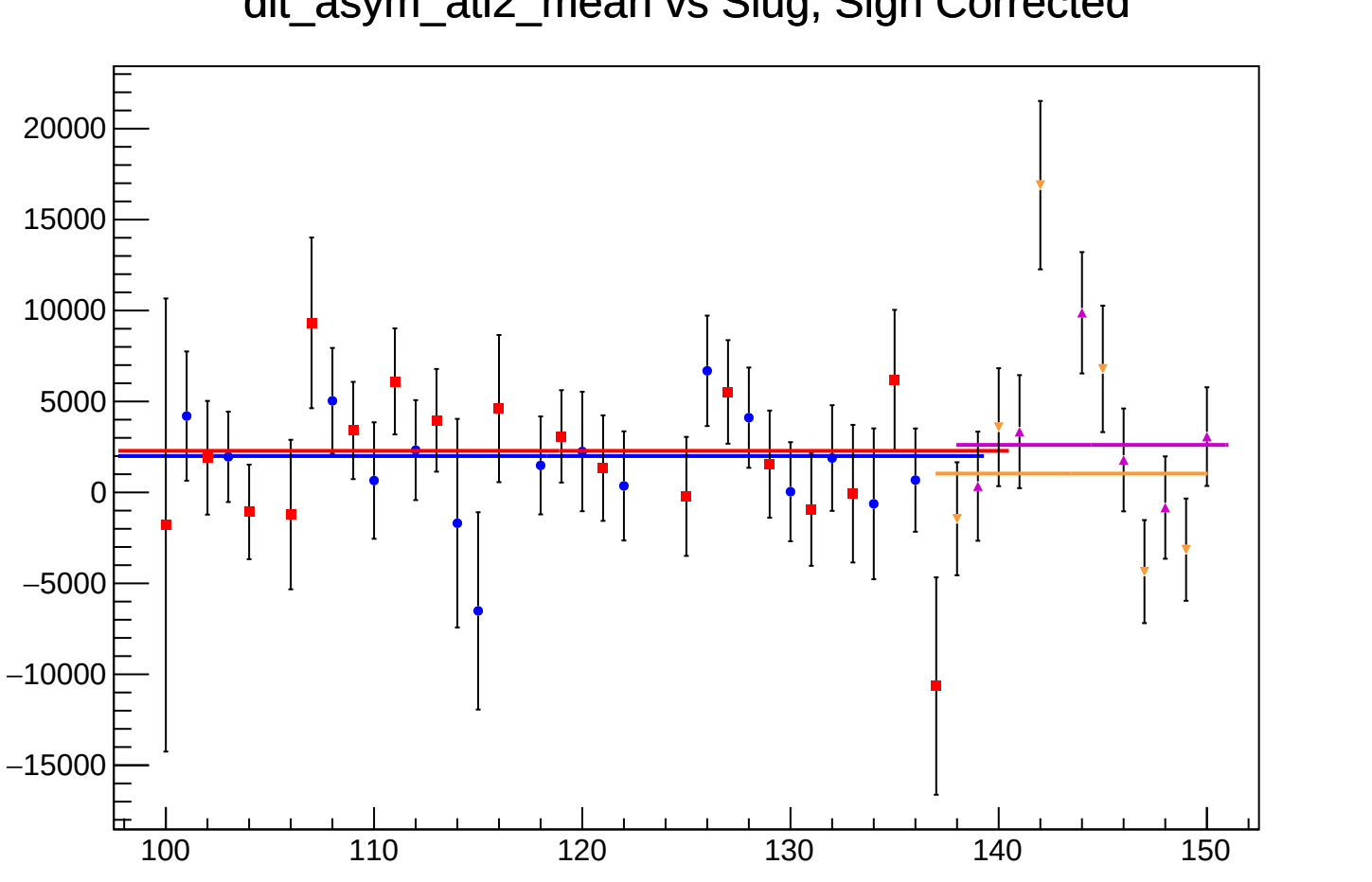
Left: 1358.291+/-0.546 $\chi^2$/NDF: 14927133.7/12

Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

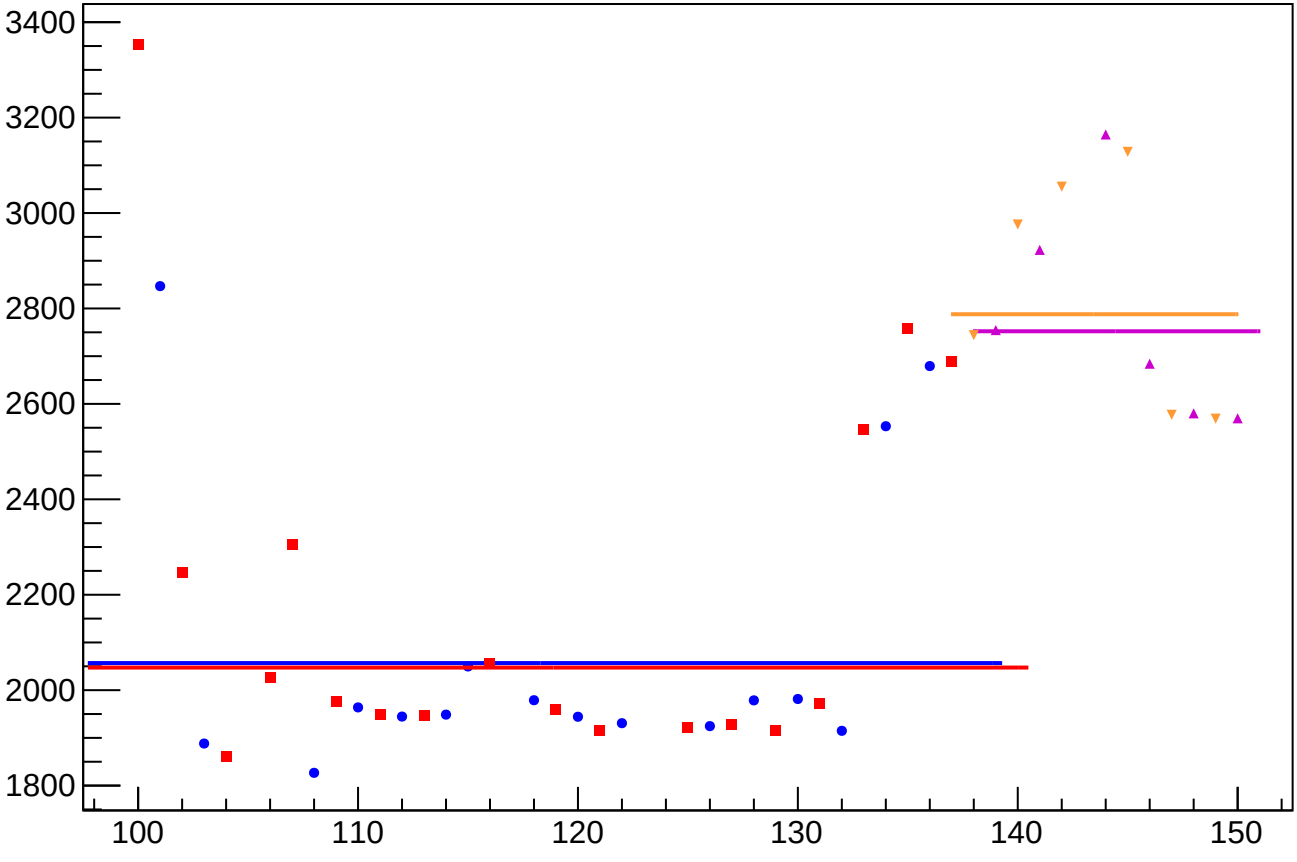
In: 6616.379+/-1.366 $\chi^2$/NDF:1413258.6/21

Out: 1008.249+/-0.389 $\chi^2$/NDF:18629074.7/25

All: 1429.680+/-0.375 $\chi^2$/NDF: 35624134.4/4


dit_asym_atl2_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 1999.214+/-773.538 χ²/NDF: 9.0/15
Left Out: 1036.284+/-1313.788 χ²/NDF:21.6/5
Right Out: 2285.899+/-771.299 χ²/NDF: 16.7/17
Left In: 2612.181+/-1202.221 χ²/NDF:7.0/5
Left: 1893.976+/-886.923 χ²/NDF: 29.3/11
Right: 2142.972+/-546.180 χ²/NDF: 25.7/33
In: 2178.681+/-650.515 χ²/NDF:16.2/21
Out: 1965.599+/-665.144 χ²/NDF:38.9/23
All: 2074.509+/-465.070 χ²/NDF: 55.1/45

# dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2787.926+/-0.929 $\chi^2$/NDF:56164.8/5

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.0/17

Left In: 2752.195+/-0.850 $\chi^2$/NDF:54287.0/5

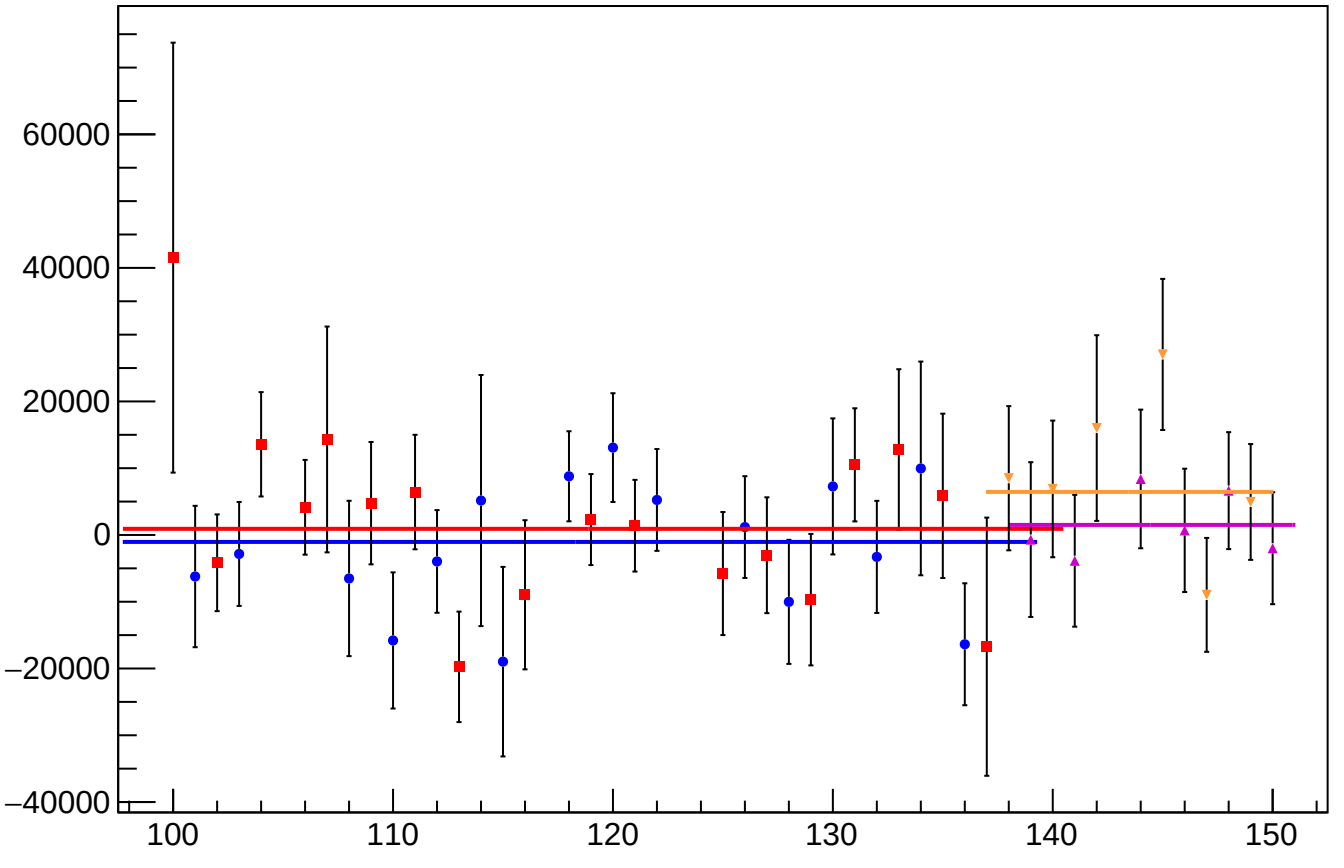
Left: 2768.479+/-0.627 $\chi^2$/NDF: 111257.0/11

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.7/33

In: 2260.397+/-0.460 $\chi^2$/NDF:797983.3/21

Out: 2236.785+/-0.470 $\chi^2$/NDF:725602.0/23

All: 2248.840+/-0.329 $\chi^2$/NDF: 1524875.0/45




Right In: -1042.515+/-2294.607 $\chi^2$/NDF: 15.3/15

Left Out: 6450.714+/-4147.332 $\chi^2$/NDF:7.1/5

Right Out: 919.663+/-2150.895 $\chi^2$/NDF: 18.4/17

Left In: 1507.276+/-3893.676 $\chi^2$/NDF:1.3/5

Left: 3823.208+/-2838.685 $\chi^2$/NDF: 9.2/11

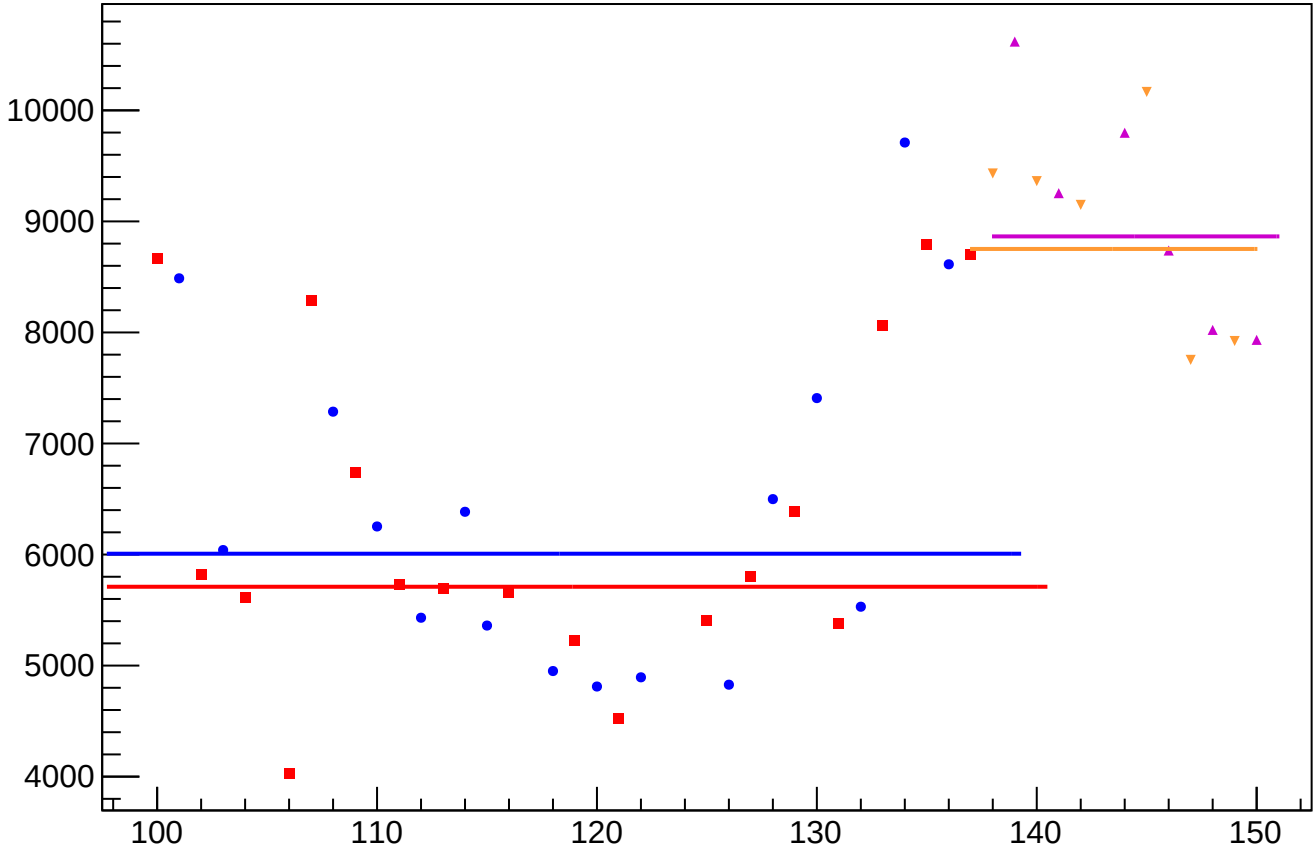
Right: 1.940+/-1569.260 $\chi^2$/NDF: 34.1/33

In: -385.252+/-1976.865 $\chi^2$/NDF:16.9/21

Out: 2092.014+/-1909.386 $\chi^2$/NDF:26.9/23

All: 896.382+/-1373.376 $\chi^2$/NDF: 44.6/45

# asym_atl2_dit_correction_rms vs Slug, Sign Corrected




Right In: 6007.425+/-1.623 $\chi^2$/NDF: 653996.7/15

Left Out: 8751.949+/-2.933 $\chi^2$/NDF:93596.4/5

Right Out: 5709.903+/-1.521 $\chi^2$/NDF: 535926.2/17

Left In: 8864.923+/-2.753 $\chi^2$/NDF:108646.5/5

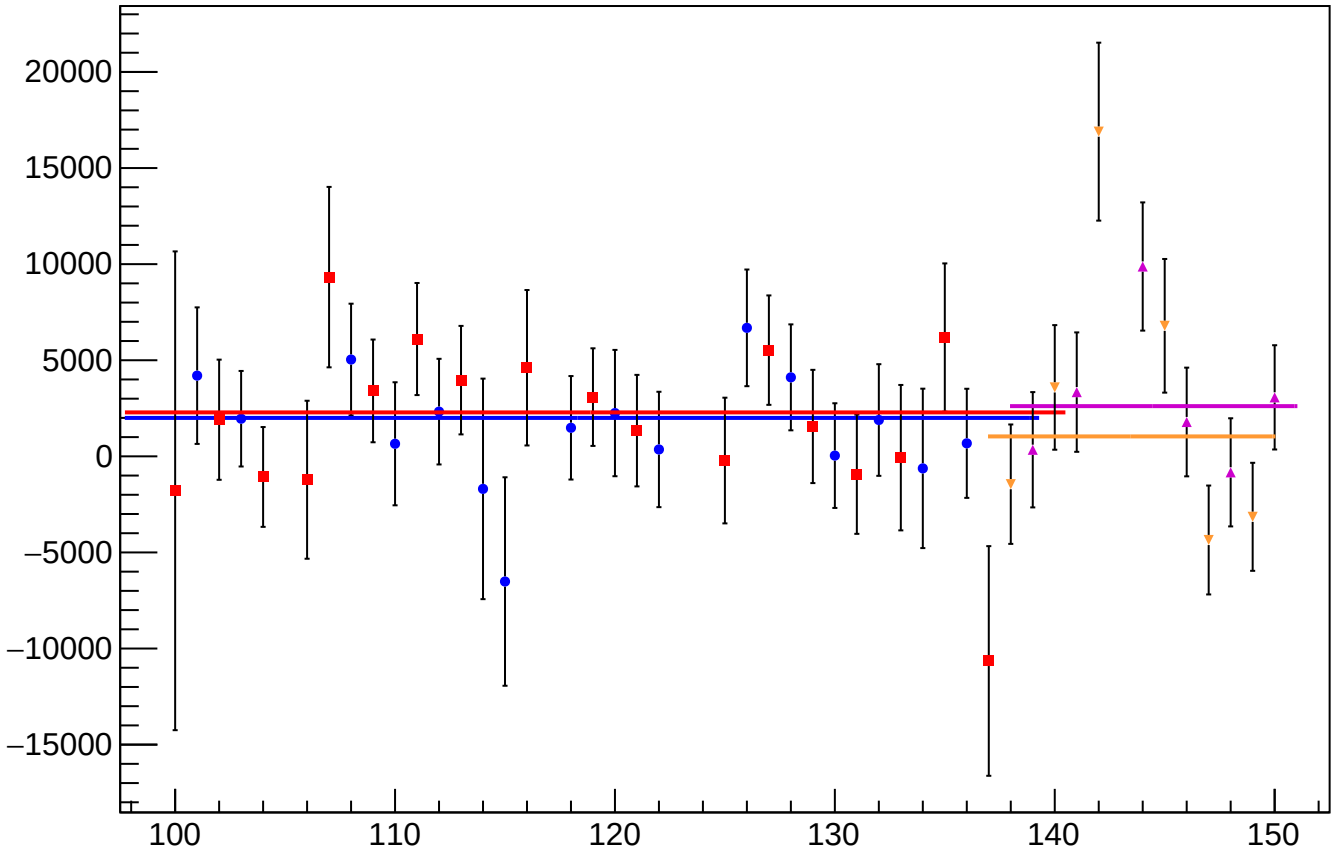
Left: 8811.996+/-2.007 $\chi^2$/NDF: 203031.7/11

Right: 5849.056+/-1.110 $\chi^2$/NDF: 1207820.8/33

In: 6744.006+/-1.398 $\chi^2$/NDF:1562146.2/21

Out: 6354.689+/-1.350 $\chi^2$/NDF:1477478.6/23

All: 6542.590+/-0.971 $\chi^2$/NDF: 3079755.3/45




Right In: 1999.218+/-773.538 $\chi^2$/NDF: 9.0/15

Left Out: 1036.296+/-1313.789 $\chi^2$/NDF:21.6/5

Right Out: 2285.903+/-771.299 $\chi^2$/NDF: 16.7/17

Left In: 2612.184+/-1202.222 $\chi^2$/NDF:7.0/5

Left: 1893.983+/-886.924 $\chi^2$/NDF: 29.3/11

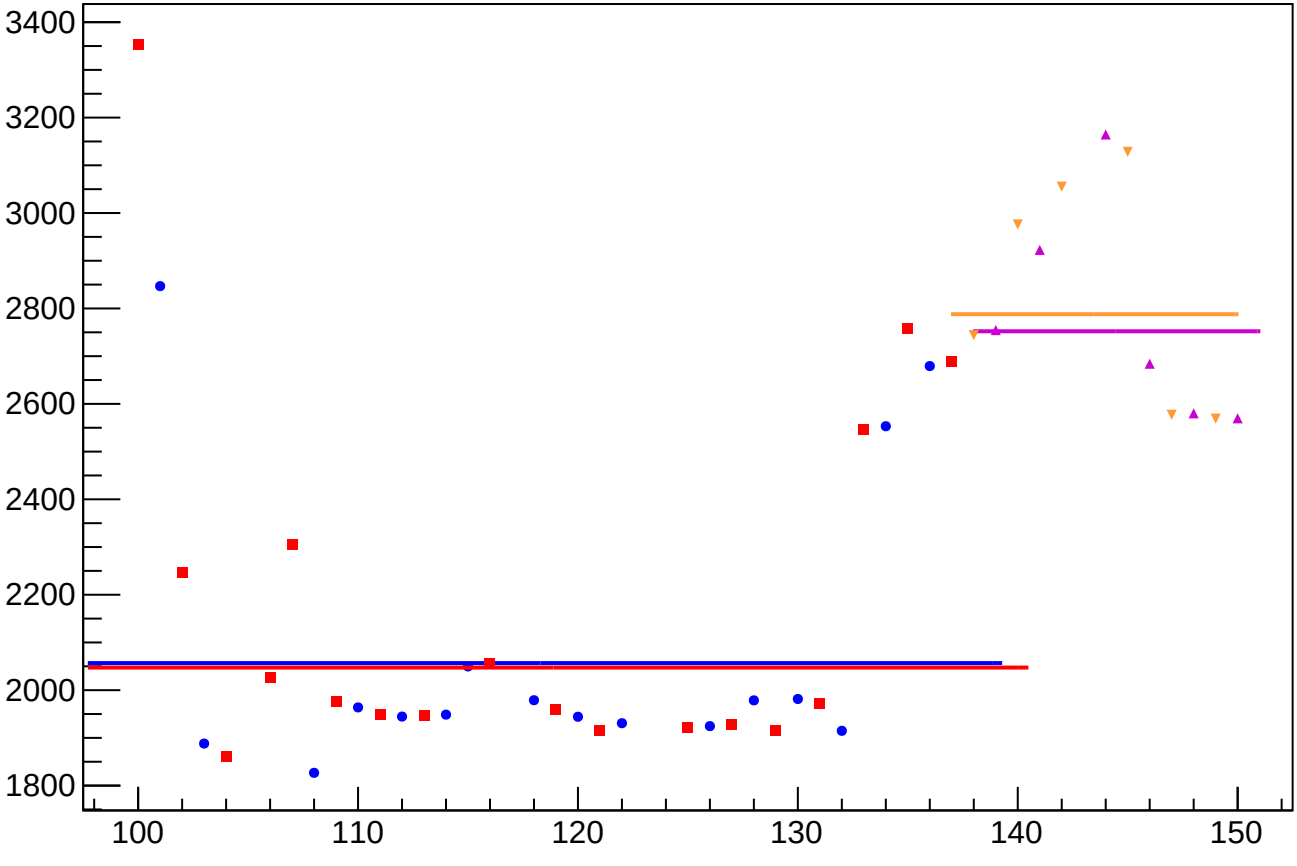
Right: 2142.976+/-546.180 $\chi^2$/NDF: 25.7/33

In: 2178.685+/-650.516 $\chi^2$/NDF:16.2/21

Out: 1965.605+/-665.144 $\chi^2$/NDF:38.9/23

All: 2074.514+/-465.070 $\chi^2$/NDF: 55.1/45

# eigen_dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2787.928+/-0.929 $\chi^2$/NDF:56166.1/5

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.3/17

Left In: 2752.197+/-0.850 $\chi^2$/NDF:54287.8/5

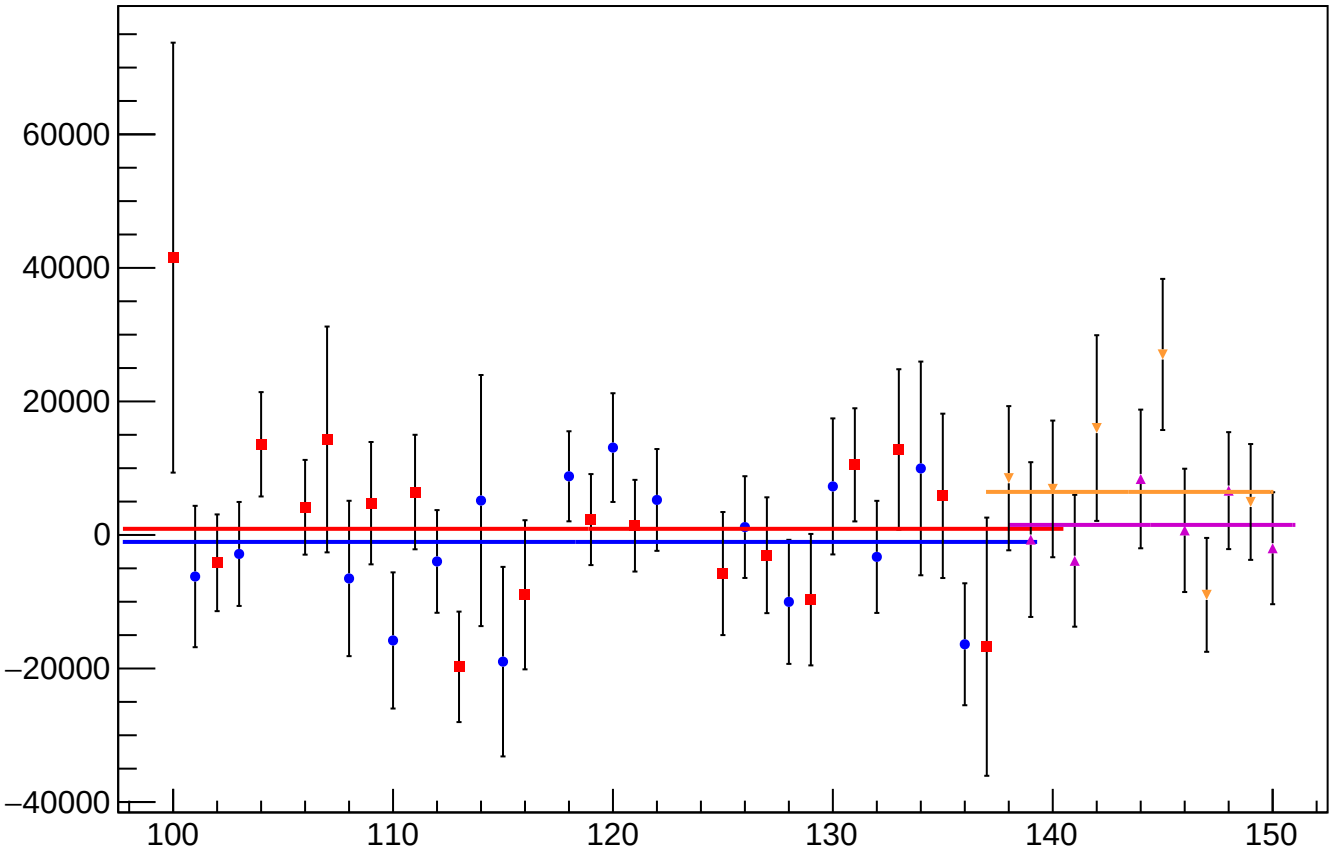
Left: 2768.481+/-0.627 $\chi^2$/NDF: 111259.0/11

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.9/33

In: 2260.398+/-0.460 $\chi^2$/NDF:797986.0/21

Out: 2236.785+/-0.470 $\chi^2$/NDF:725605.4/23

All: 2248.841+/-0.329 $\chi^2$/NDF: 1524881.1/45




Right In: -1042.503+/-2294.600 $\chi^2$/NDF: 15.3/15

Left Out: 6450.715+/-4147.338 $\chi^2$/NDF:7.1/5

Right Out: 919.667+/-2150.889 $\chi^2$/NDF: 18.4/17

Left In: 1507.278+/-3893.680 $\chi^2$/NDF:1.3/5

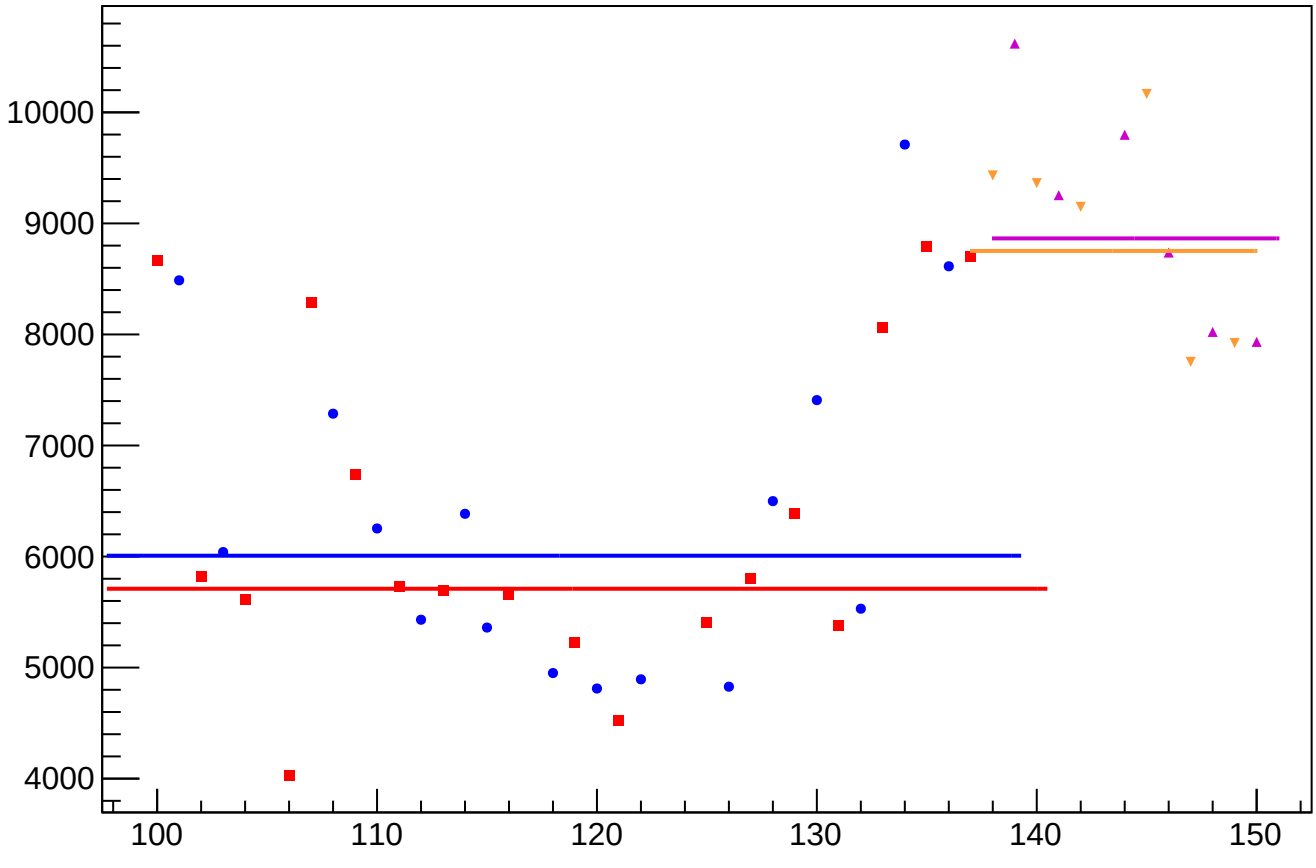
Left: 3823.209+/-2838.688 $\chi^2$/NDF: 9.2/11

Right: 1.948+/-1569.255 $\chi^2$/NDF: 34.1/33

In: -385.246+/-1976.862 $\chi^2$/NDF:16.9/21

Out: 2092.009+/-1909.383 $\chi^2$/NDF:26.9/23

All: 896.383+/-1373.374 $\chi^2$/NDF: 44.6/45




Right In: 6007.405+/-1.623 $\chi^2$/NDF: 654004.9/15

Left Out: 8751.961+/-2.933 $\chi^2$/NDF:93598.8/5

Right Out: 5709.885+/-1.521 $\chi^2$/NDF: 535929.9/17

Left In: 8864.933+/-2.753 $\chi^2$/NDF:108648.9/5

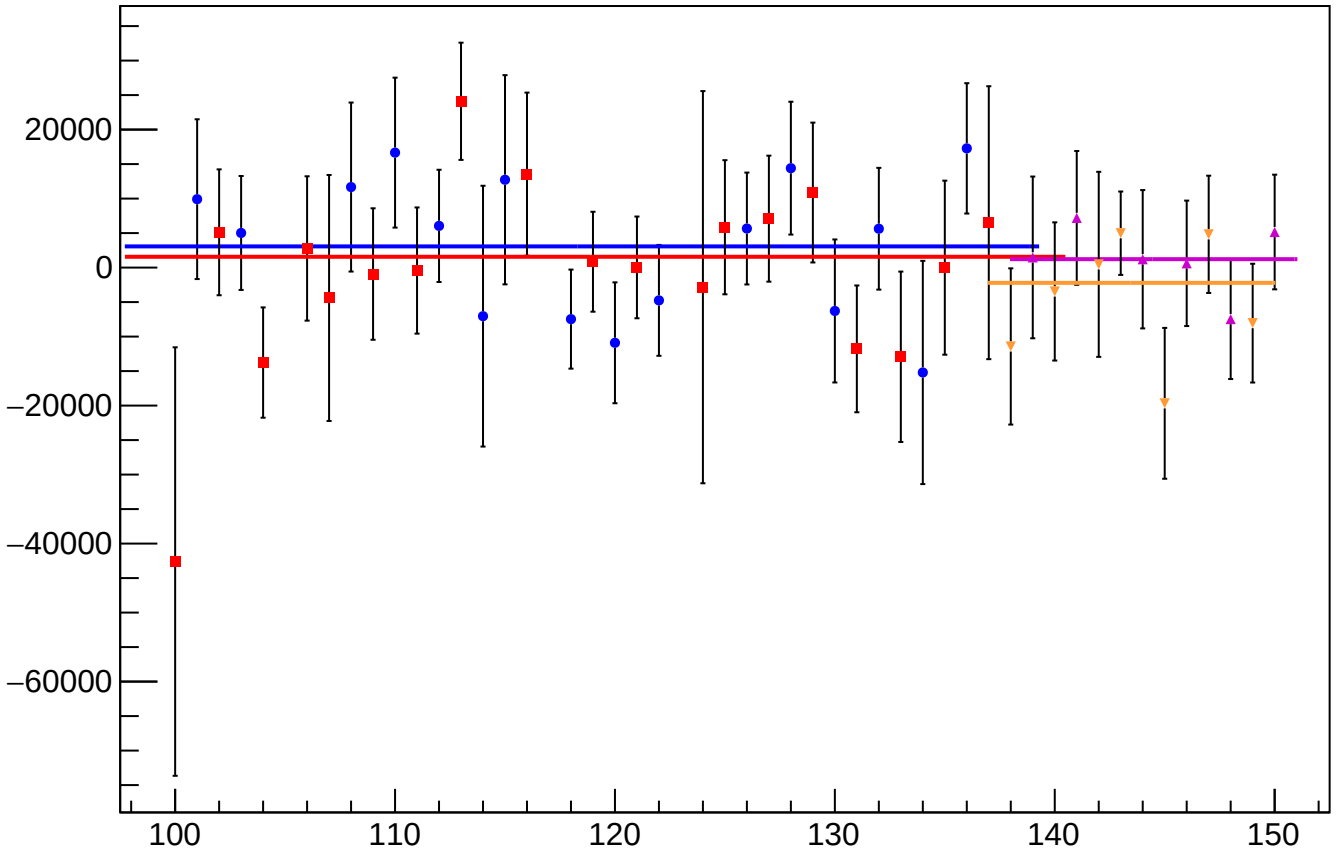
Left: 8812.007+/-2.007 $\chi^2$/NDF: 203036.5/11

Right: 5849.037+/-1.110 $\chi^2$/NDF: 1207832.6/33

In: 6743.989+/-1.398 $\chi^2$/NDF:1562173.2/21

Out: 6354.673+/-1.350 $\chi^2$/NDF:1477499.9/23

All: 6542.573+/-0.971 $\chi^2$/NDF: 3079803.5/45




Right In: 3070.293+/-2420.721 $\chi^2$/NDF: 14.9/15

Left Out: -2211.602+/-3401.508 $\chi^2$/NDF:5.8/6

Right Out: 1567.088+/-2335.884 $\chi^2$/NDF: 19.2/18

Left In: 1220.774+/-3843.392 $\chi^2$/NDF:1.6/5

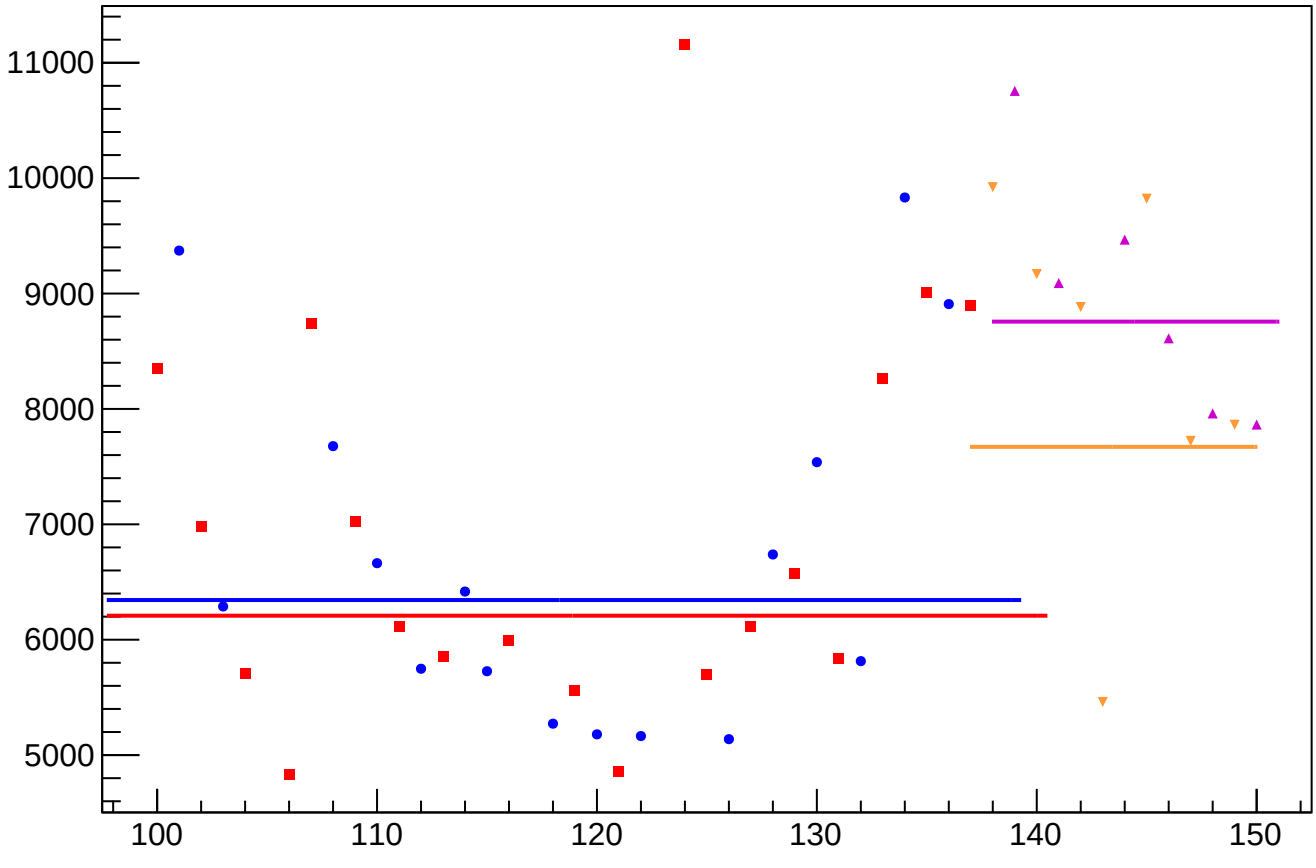
Left: -703.988+/-2547.197 $\chi^2$/NDF: 7.9/12

Right: 2291.888+/-1680.911 $\chi^2$/NDF: 34.3/34

In: 2544.982+/-2048.300 $\chi^2$/NDF:16.6/21

Out: 356.167+/-1925.567 $\chi^2$/NDF:25.9/25

All: 1383.038+/-1402.965 $\chi^2$/NDF: 43.1/47




Right In: 6343.796+/-1.712 $\chi^2$/NDF: 621240.2/15

Left Out: 7671.281+/-2.405 $\chi^2$/NDF:486182.6/6

Right Out: 6208.099+/-1.652 $\chi^2$/NDF: 471840.9/18

Left In: 8756.577+/-2.718 $\chi^2$/NDF:110978.8/5

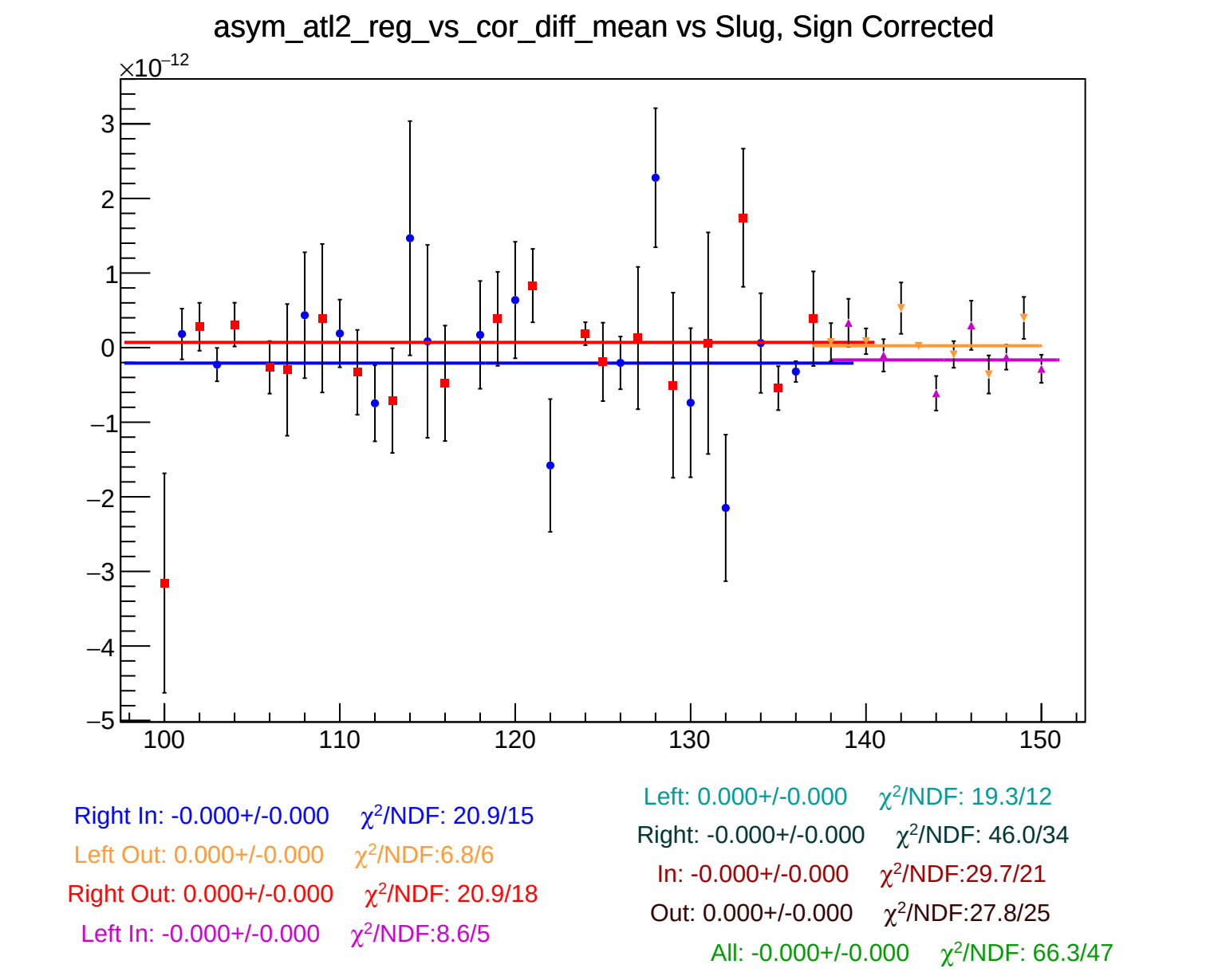
Left: 8147.979+/-1.801 $\chi^2$/NDF: 686590.4/12

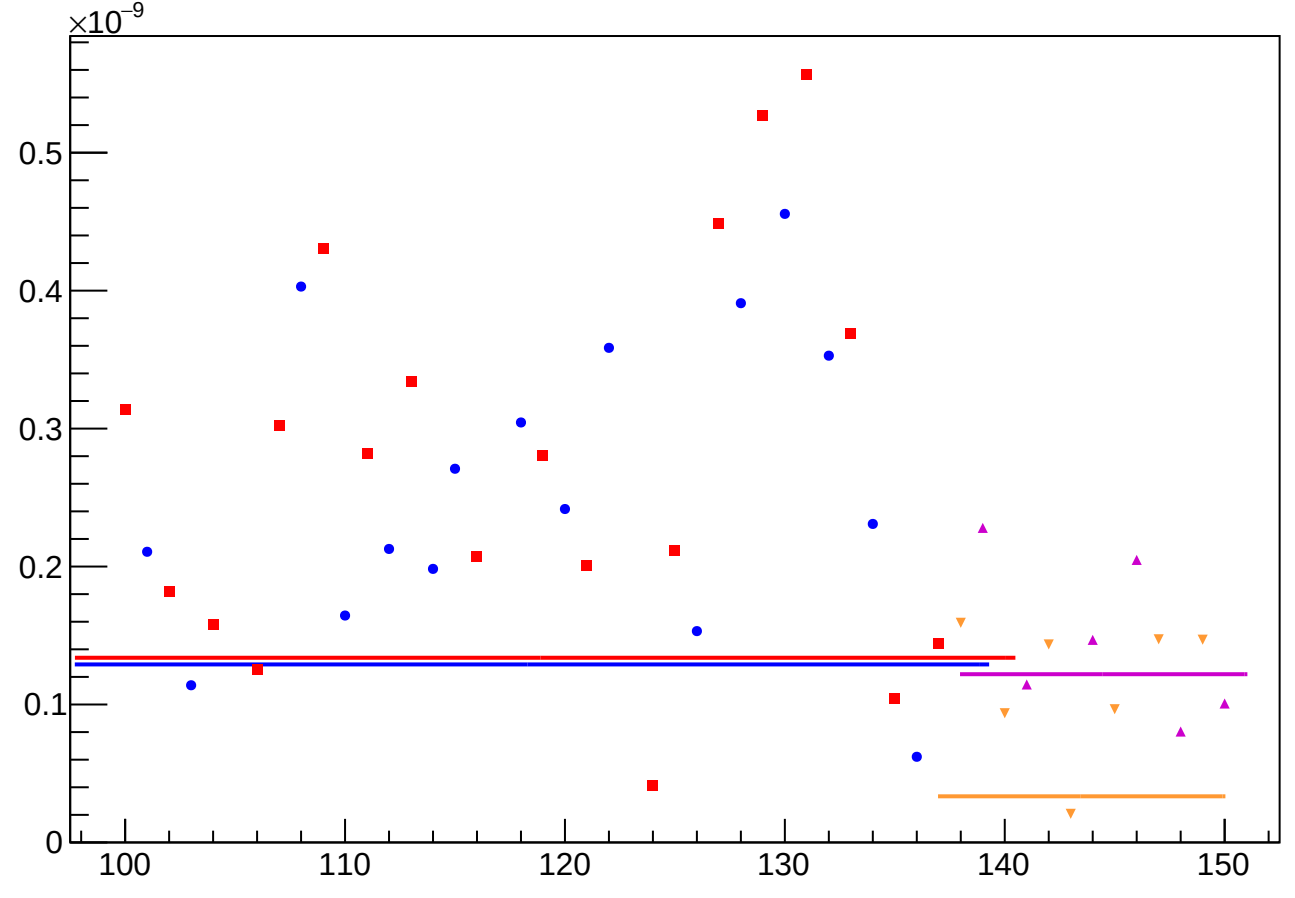
Right: 6273.528+/-1.189 $\chi^2$/NDF: 1096335.5/34

In: 7029.086+/-1.448 $\chi^2$/NDF:1296550.2/21

Out: 6676.989+/-1.362 $\chi^2$/NDF:1209500.9/25

All: 6842.173+/-0.992 $\chi^2$/NDF: 2537423.3/47


asym_atl2_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
−4
−5
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 20.9/15
Left Out: 0.000+/-0.000 χ²/NDF:6.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 20.9/18
Left In: -0.000+/-0.000 χ²/NDF:8.6/5
Left: 0.000+/-0.000 χ²/NDF: 19.3/12
Right: -0.000+/-0.000 χ²/NDF: 46.0/34
In: -0.000+/-0.000 χ²/NDF:29.7/21
Out: 0.000+/-0.000 χ²/NDF:27.8/25
All: -0.000+/-0.000 χ²/NDF: 66.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1720321.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2157942.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2304489.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:517657.0/5

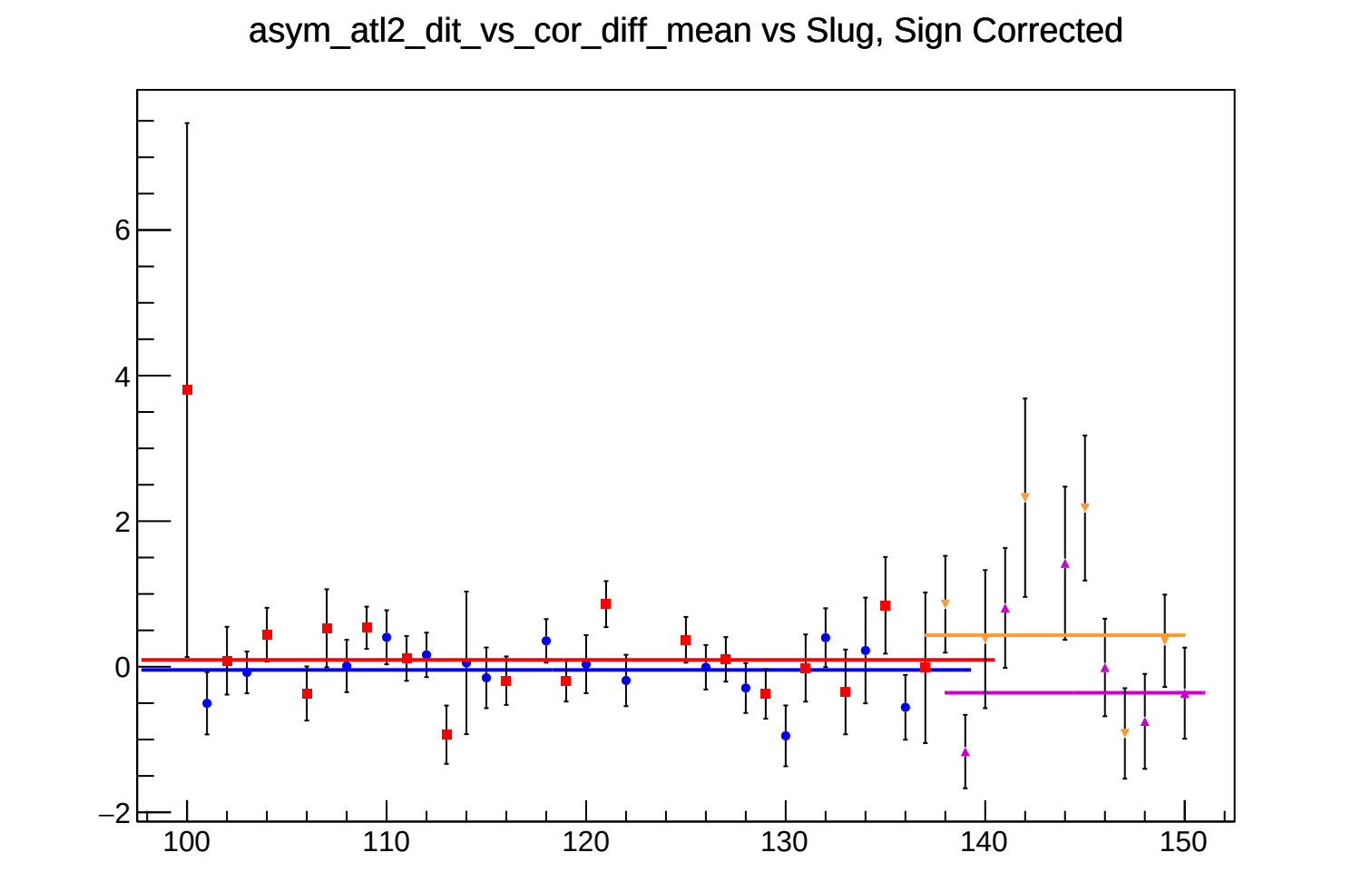
Left: 0.000+/-0.000 $\chi^2$/NDF: 4371204.4/12

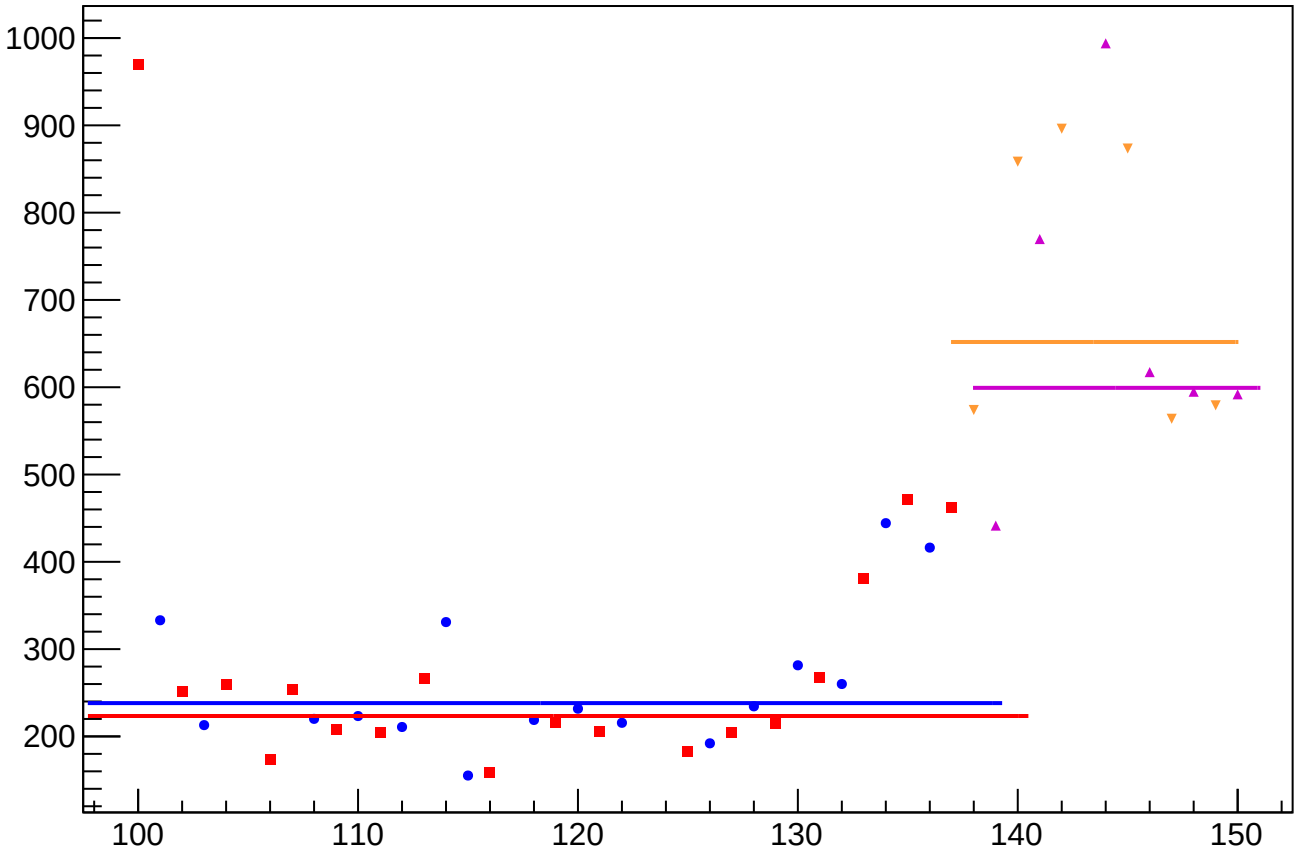
Right: 0.000+/-0.000 $\chi^2$/NDF: 4027379.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:2243808.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6427758.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11163915.6/47


asym_atl2_dit_vs_cor_diff_mean vs Slug, Sign Corrected
6
4
2
0
−2
100
110
120
130
140
150
Right In: -0.044+/-0.094 χ²/NDF: 13.1/15
Left Out: 0.433+/-0.316 χ²/NDF:10.1/5
Right Out: 0.094+/-0.090 χ²/NDF: 25.3/17
Left In: -0.358+/-0.273 χ²/NDF:8.1/5
Left: -0.021+/-0.207 χ²/NDF: 21.8/11
Right: 0.028+/-0.065 χ²/NDF: 39.5/33
In: -0.077+/-0.089 χ²/NDF:22.3/21
Out: 0.120+/-0.087 χ²/NDF:36.5/23
All: 0.024+/-0.062 χ²/NDF: 61.3/45




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 651.833+/-0.224 $\chi^2$/NDF:351687.4/5

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 599.301+/-0.193 $\chi^2$/NDF:564388.6/5

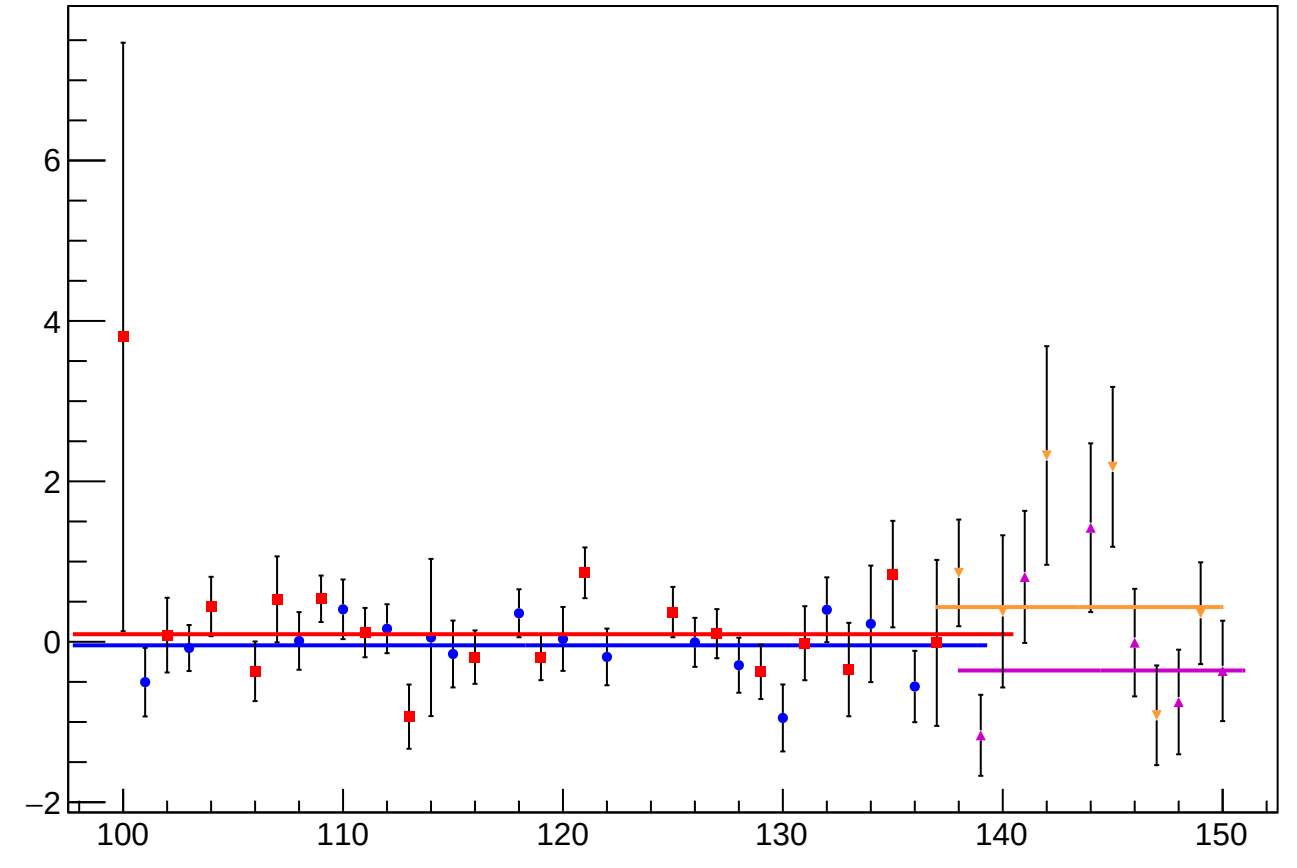
Left: 621.710+/-0.146 $\chi^2$/NDF: 947697.6/11

Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 276.331+/-0.063 $\chi^2$/NDF:4504785.0/21

Out: 255.490+/-0.061 $\chi^2$/NDF:4607544.6/23

All: 265.660+/-0.044 $\chi^2$/NDF: 9168860.6/45




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 0.433+/-0.316 $\chi^2$/NDF:10.1/5

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.358+/-0.273 $\chi^2$/NDF:8.1/5

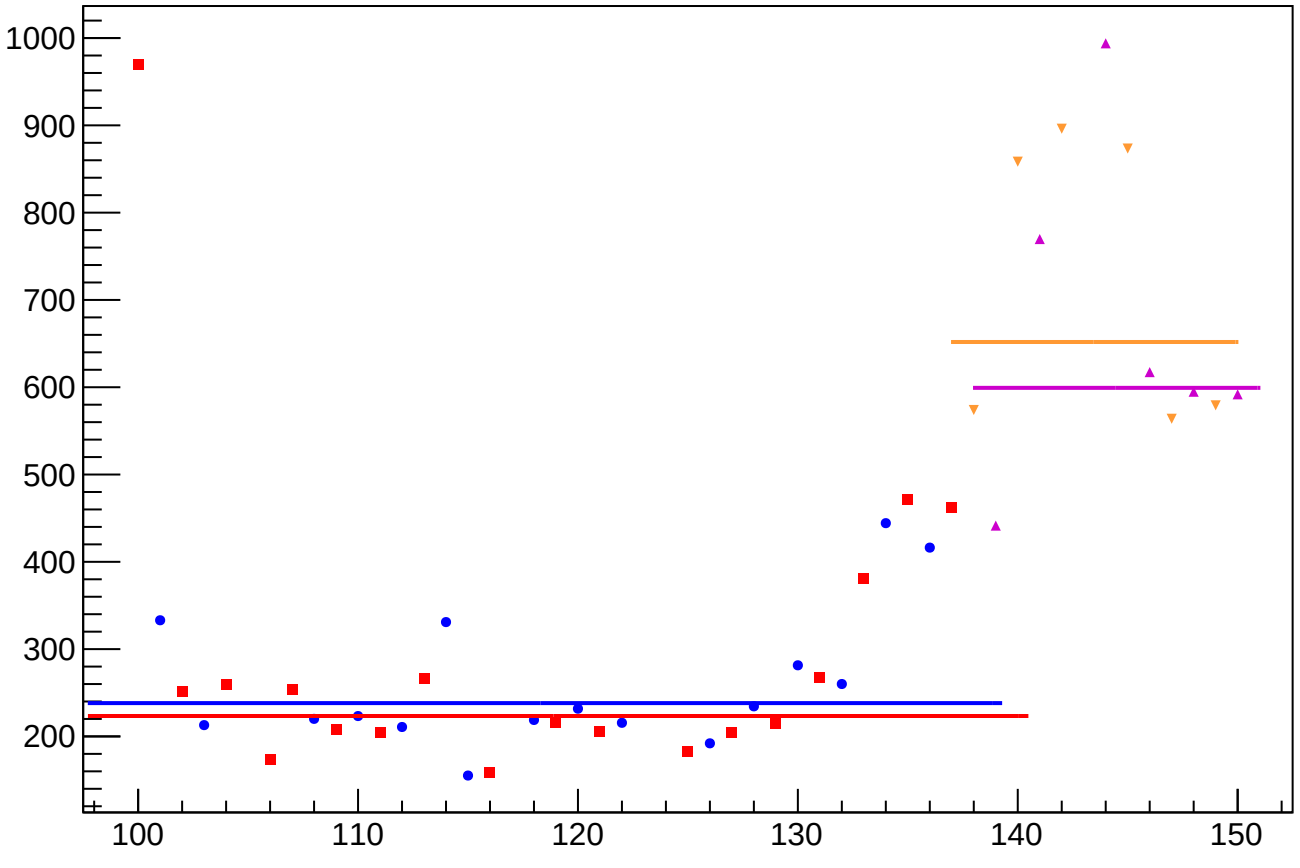
Left: -0.021+/-0.207 $\chi^2$/NDF: 21.8/11

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.077+/-0.089 $\chi^2$/NDF:22.3/21

Out: 0.120+/-0.087 $\chi^2$/NDF:36.5/23

All: 0.024+/-0.062 $\chi^2$/NDF: 61.3/45




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 651.833+/-0.224 $\chi^2$/NDF:351687.4/5

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 599.301+/-0.193 $\chi^2$/NDF:564388.6/5

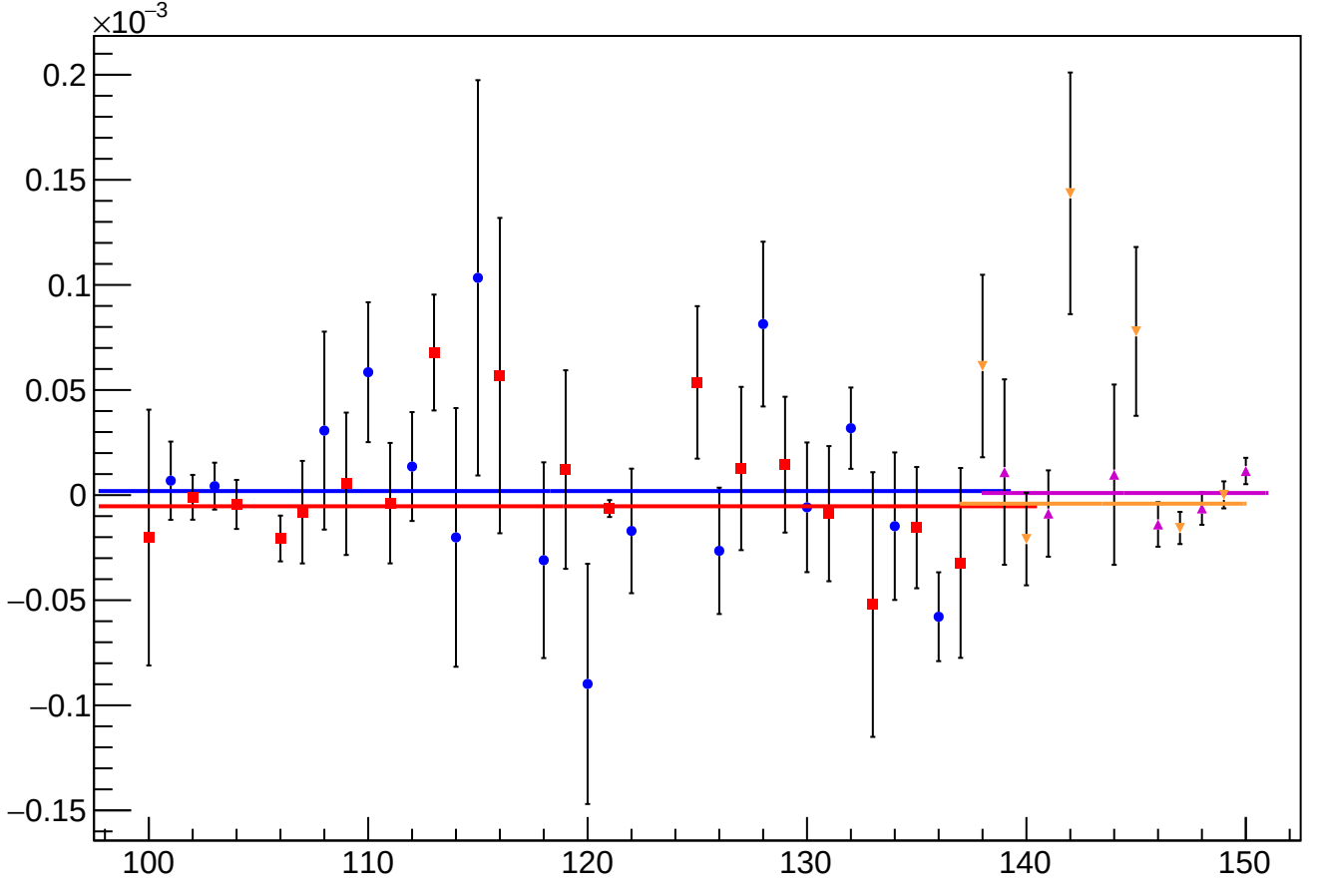
Left: 621.710+/-0.146 $\chi^2$/NDF: 947697.6/11

Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 276.331+/-0.063 $\chi^2$/NDF:4504785.0/21

Out: 255.490+/-0.061 $\chi^2$/NDF:4607544.6/23

All: 265.660+/-0.044 $\chi^2$/NDF: 9168860.6/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.3/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.0/5

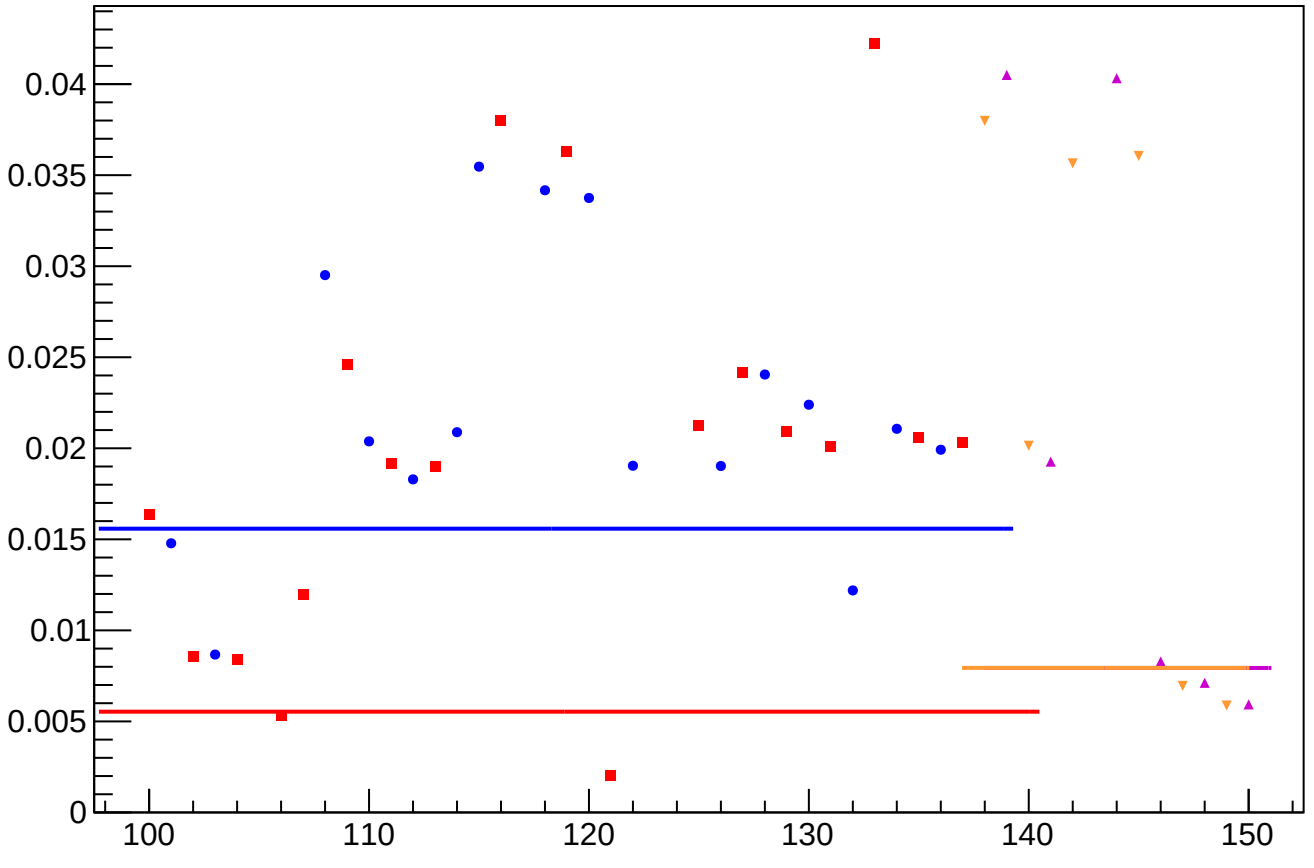
Left: -0.000+/-0.000 $\chi^2$/NDF: 22.9/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:30.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:30.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 62.9/45




Right In: 0.016+/-0.000 $\chi^2$/NDF: 2074656.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:3256628.2/5

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 7954965.8/17

Left In: 0.008+/-0.000 $\chi^2$/NDF:3067154.2/5

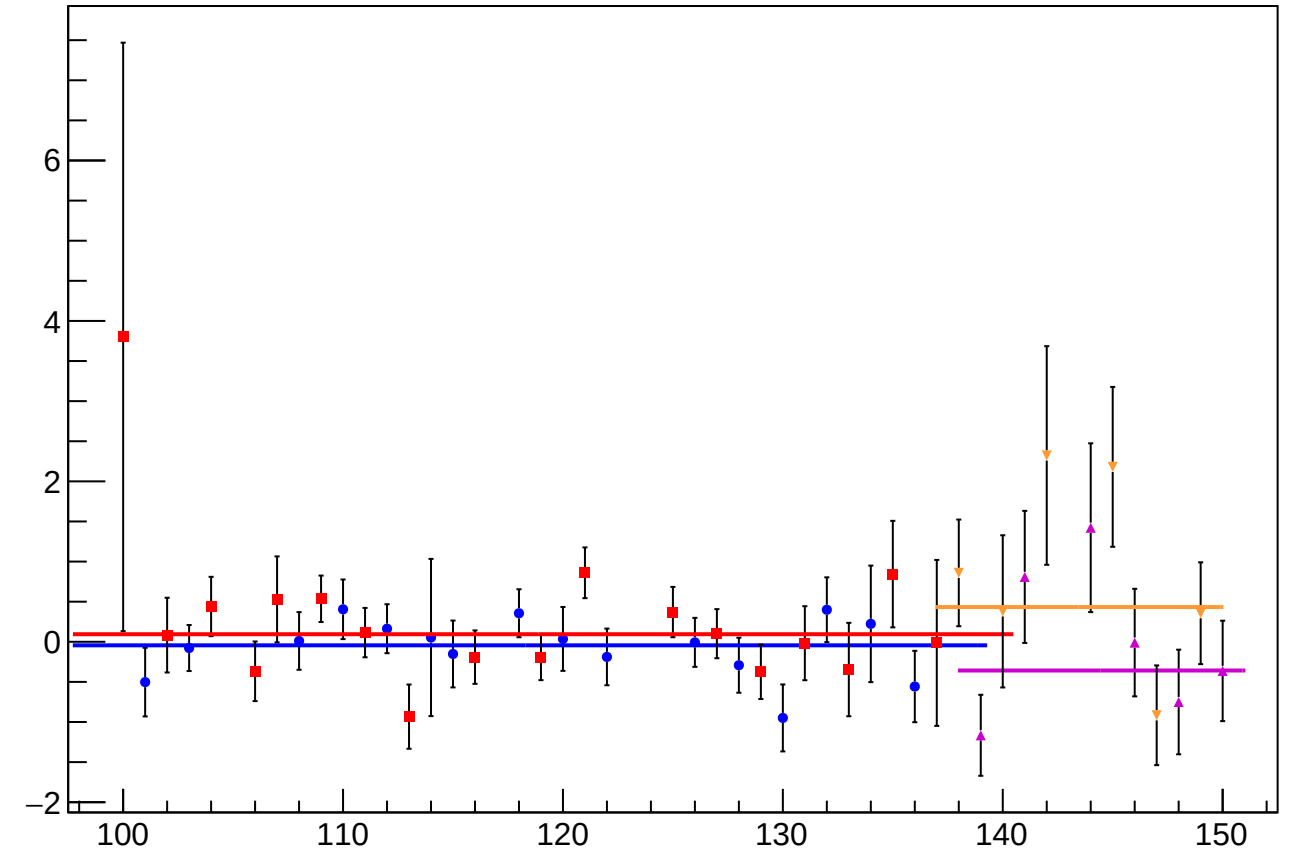
Left: 0.008+/-0.000 $\chi^2$/NDF: 6323783.1/11

Right: 0.008+/-0.000 $\chi^2$/NDF: 13999634.8/33

In: 0.010+/-0.000 $\chi^2$/NDF:7121551.6/21

Out: 0.006+/-0.000 $\chi^2$/NDF:11567144.3/23

All: 0.008+/-0.000 $\chi^2$/NDF: 20339454.2/45




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 0.433+/-0.316 $\chi^2$/NDF:10.1/5

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.358+/-0.273 $\chi^2$/NDF:8.1/5

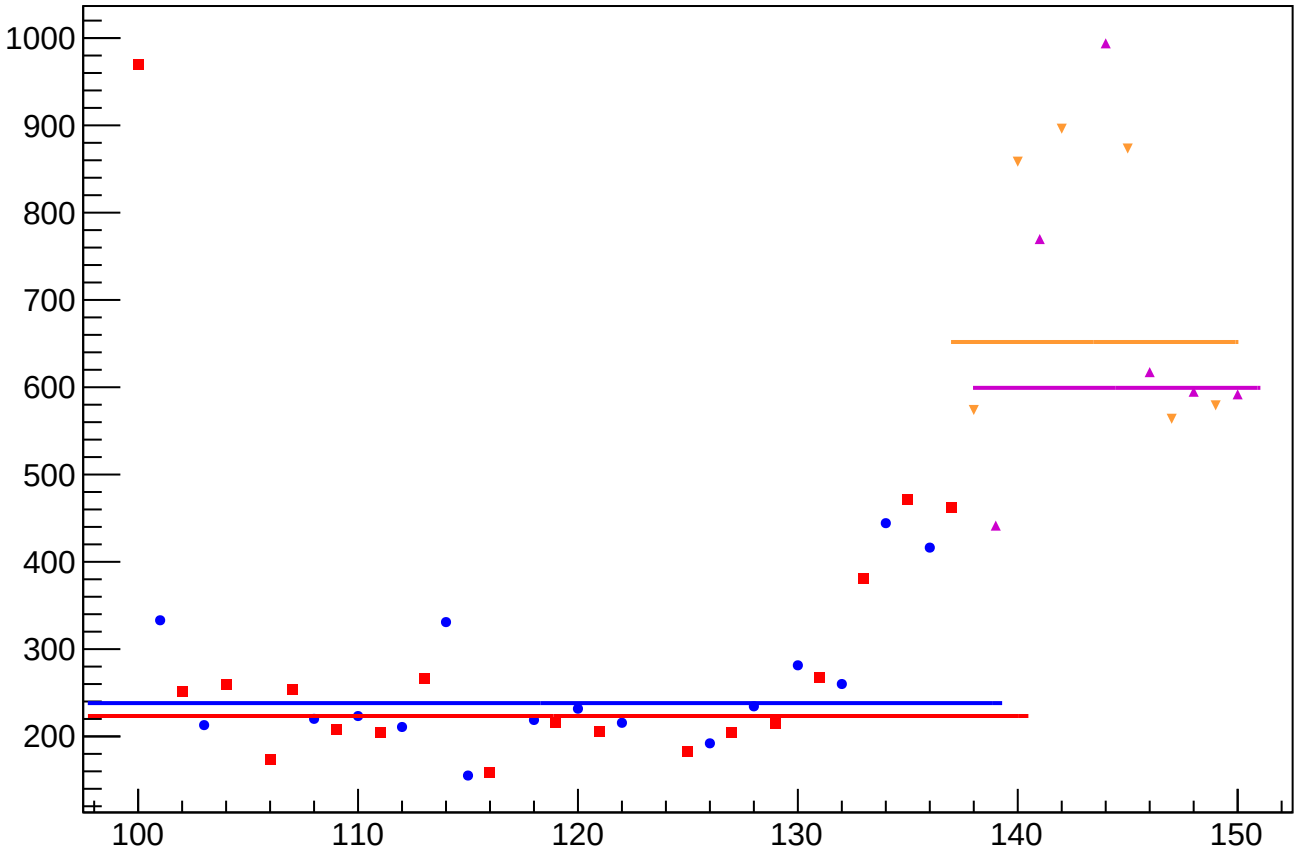
Left: -0.021+/-0.207 $\chi^2$/NDF: 21.8/11

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.077+/-0.089 $\chi^2$/NDF:22.3/21

Out: 0.120+/-0.087 $\chi^2$/NDF:36.5/23

All: 0.024+/-0.062 $\chi^2$/NDF: 61.3/45




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 651.836+/-0.224 $\chi^2$/NDF:351716.3/5

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 599.309+/-0.193 $\chi^2$/NDF:564367.9/5

Left: 621.716+/-0.146 $\chi^2$/NDF: 947699.9/11

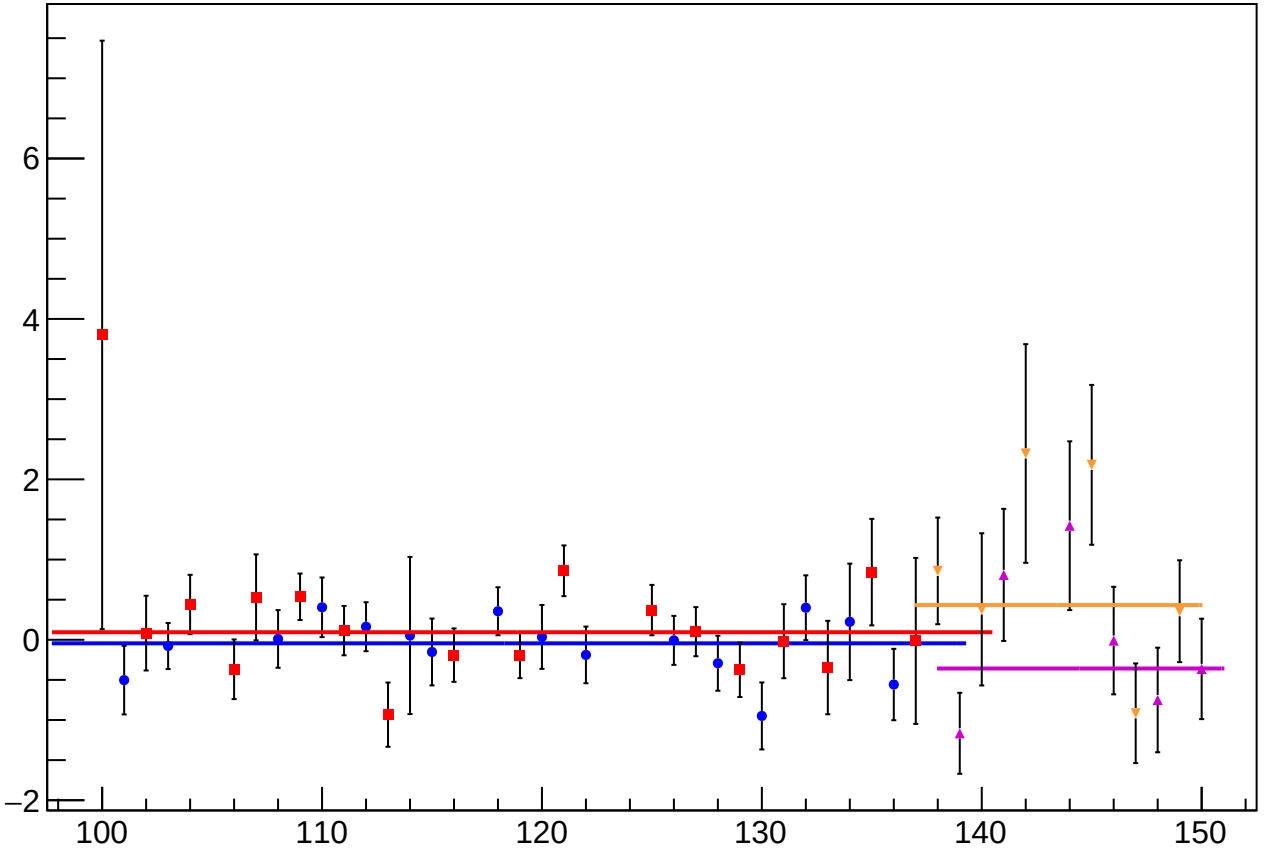
Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 276.332+/-0.063 $\chi^2$/NDF:4504784.4/21

Out: 255.491+/-0.061 $\chi^2$/NDF:4607503.9/23

All: 265.661+/-0.044 $\chi^2$/NDF: 9168814.6/45

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 0.433+/-0.316 $\chi^2$/NDF:10.1/5

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.358+/-0.273 $\chi^2$/NDF:8.1/5

Left: -0.021+/-0.207 $\chi^2$/NDF: 21.8/11

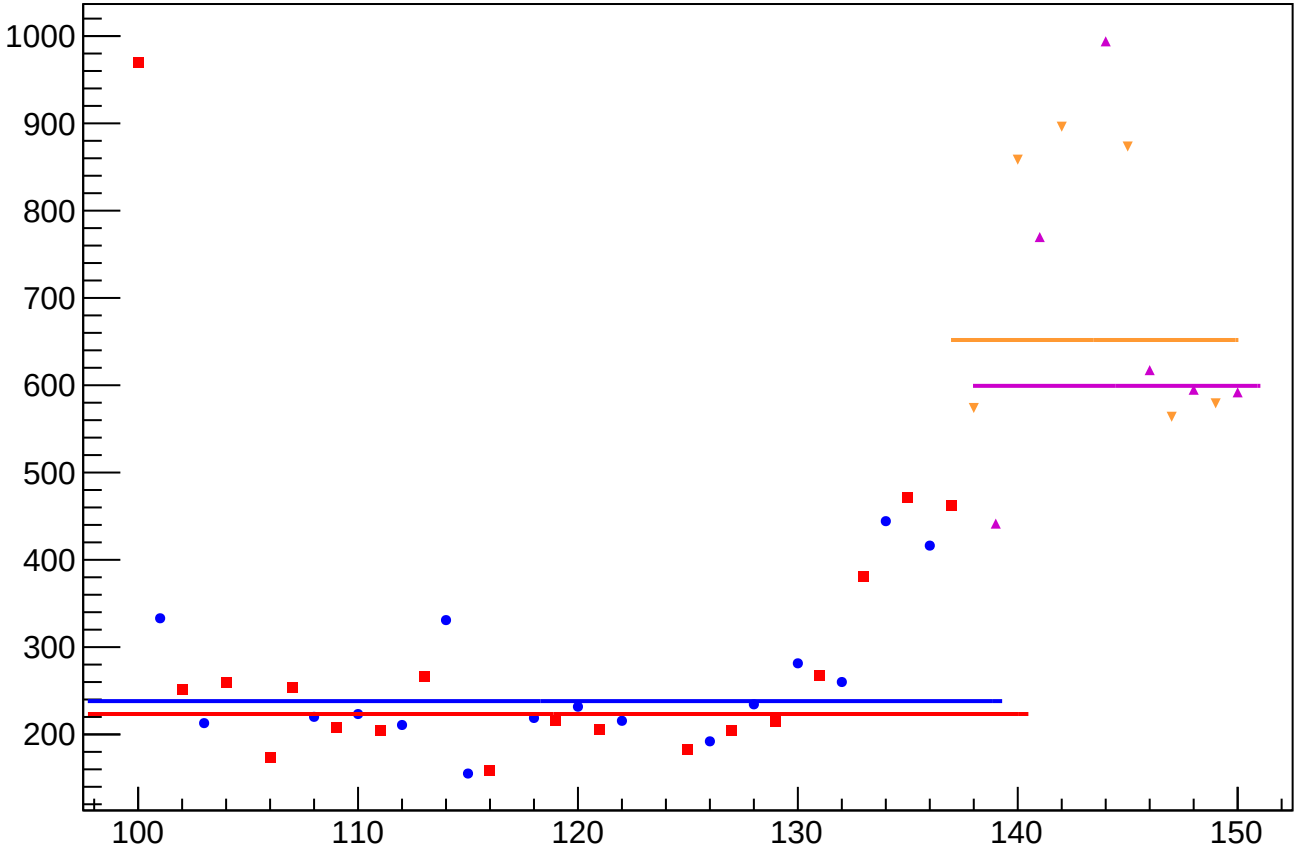
Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.077+/-0.089 $\chi^2$/NDF:22.3/21

Out: 0.120+/-0.087 $\chi^2$/NDF:36.5/23

All: 0.024+/-0.062 $\chi^2$/NDF: 61.3/45

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 651.836+/-0.224 $\chi^2$/NDF:351716.3/5

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 599.309+/-0.193 $\chi^2$/NDF:564367.9/5

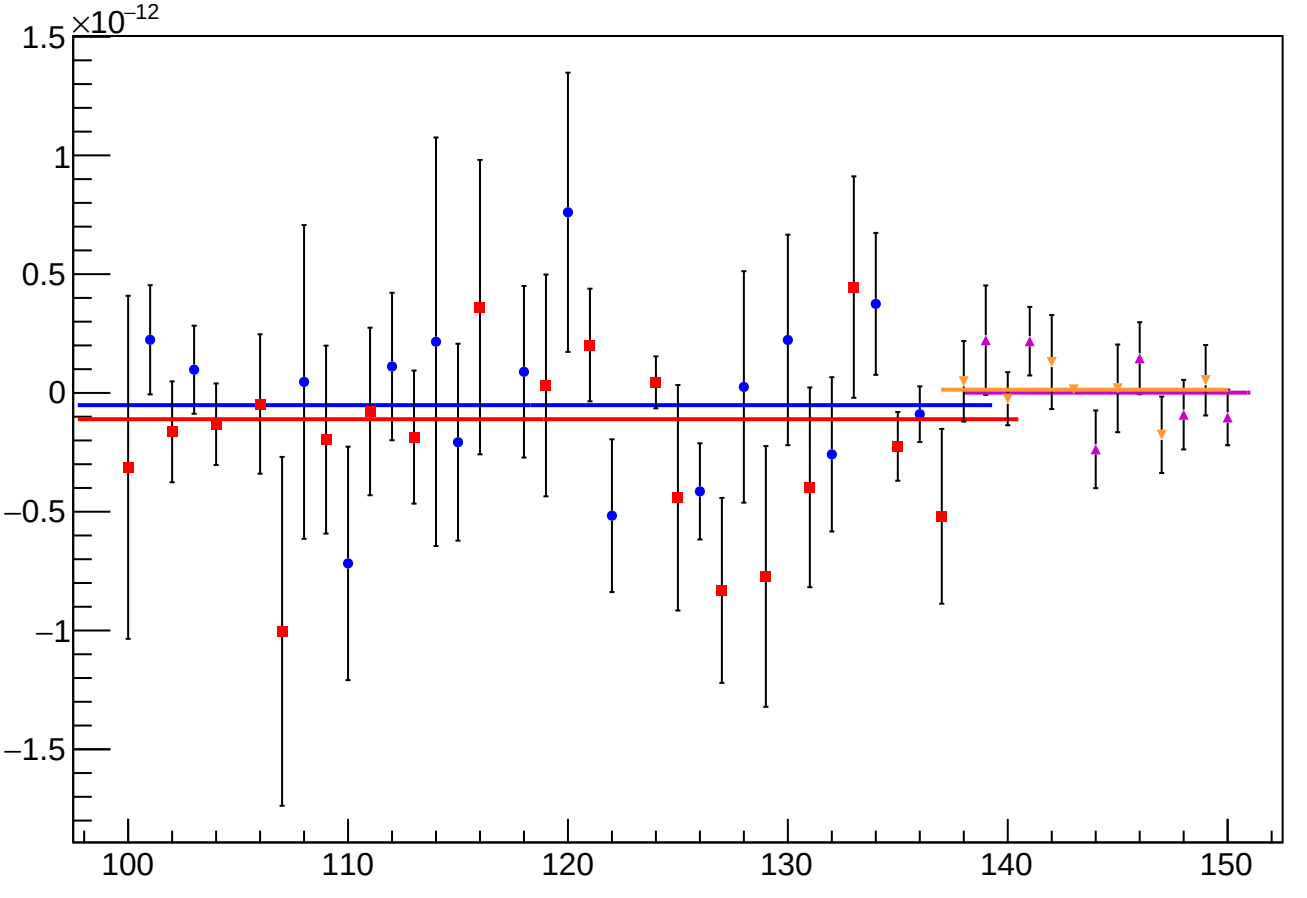
Left: 621.716+/-0.146 $\chi^2$/NDF: 947699.9/11

Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 276.332+/-0.063 $\chi^2$/NDF:4504784.4/21

Out: 255.491+/-0.061 $\chi^2$/NDF:4607503.9/23

All: 265.661+/-0.044 $\chi^2$/NDF: 9168814.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.4/5

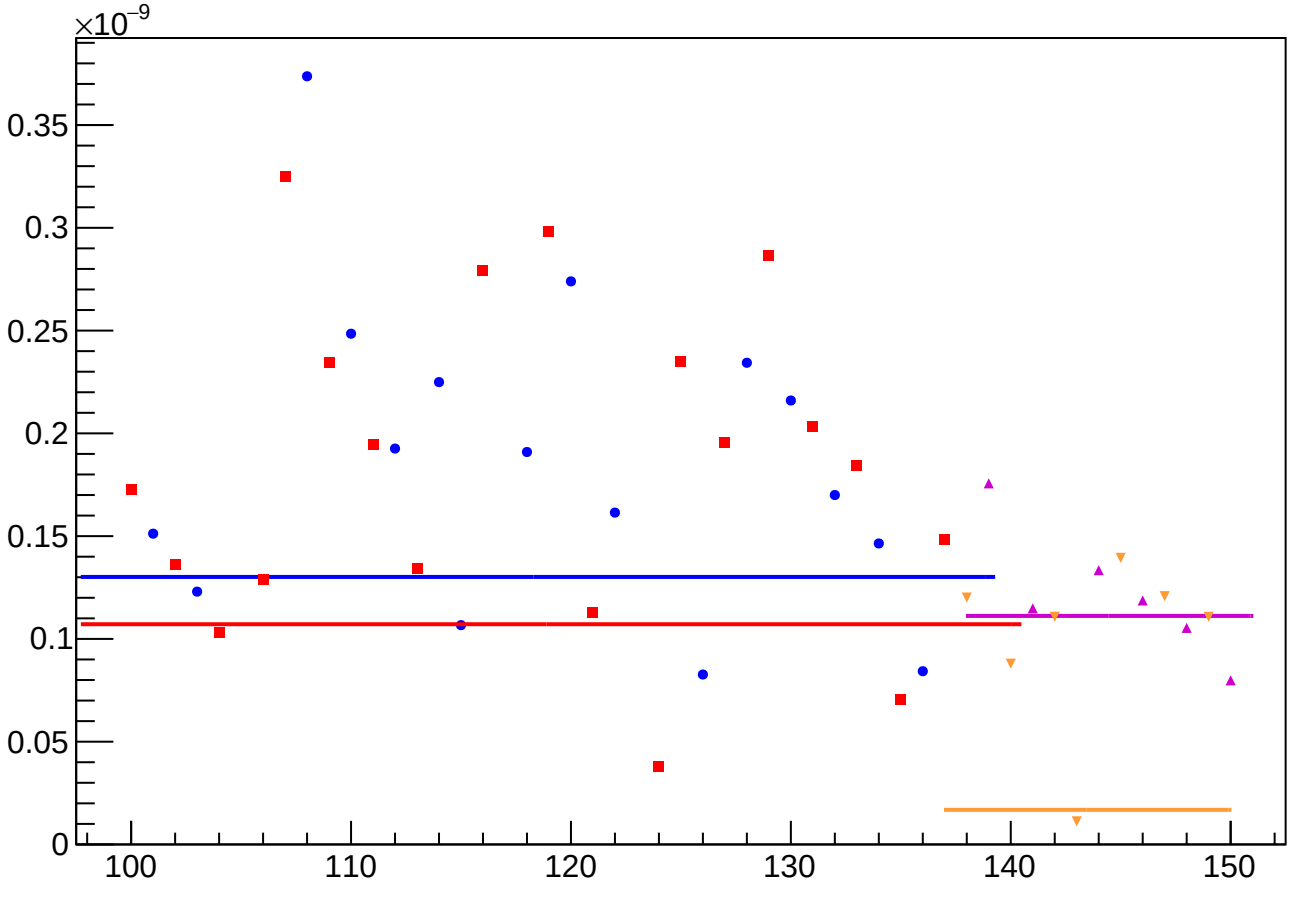
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:21.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1334266.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4786083.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2656168.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:346263.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 9620509.5/12

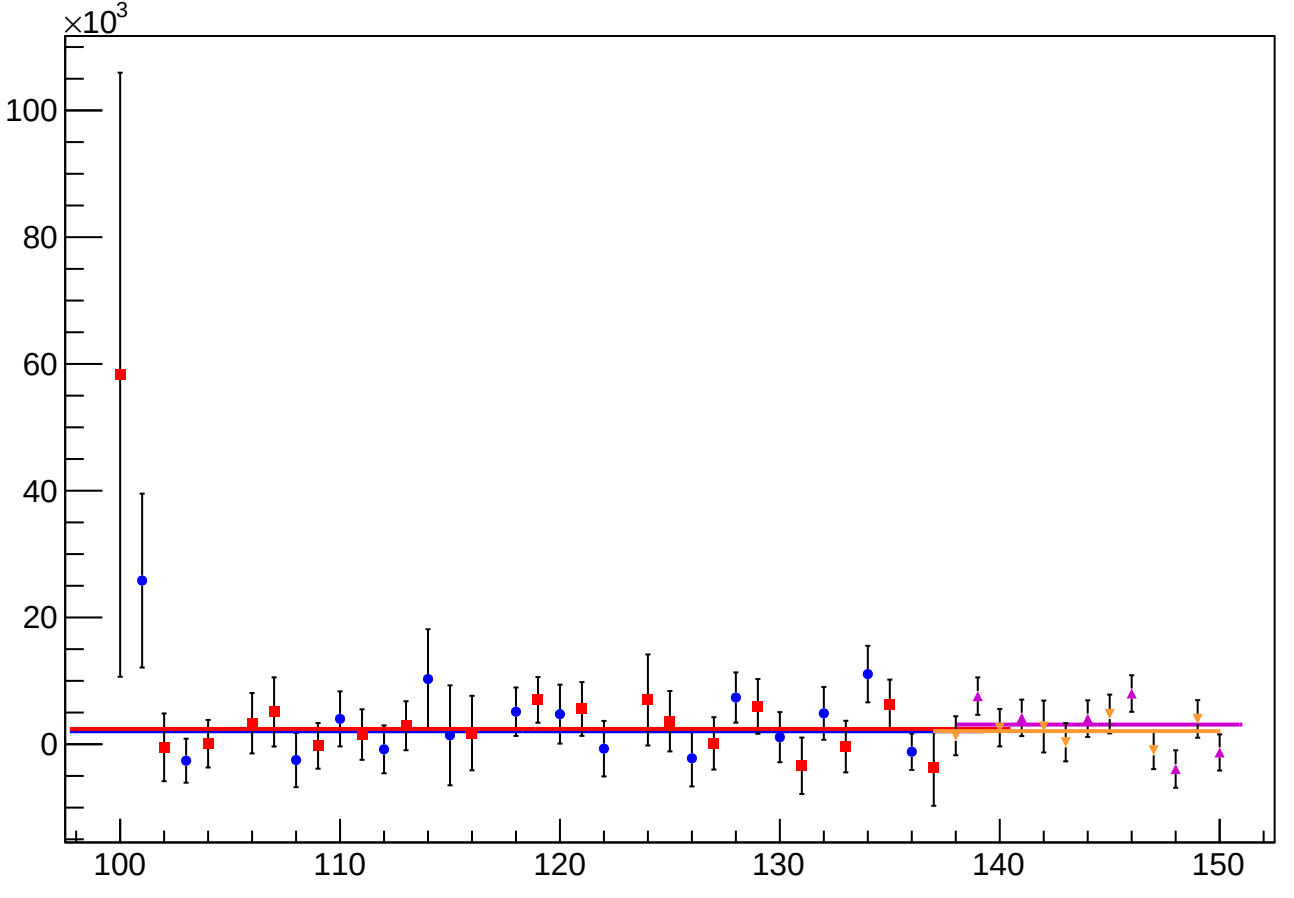
Right: 0.000+/-0.000 $\chi^2$/NDF: 4122173.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:1767208.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:11839466.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 21990759.9/47

# reg_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2049.493+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2071.791+/-1174.838 $\chi^2$/NDF:2.7/6

Right Out: 2411.858+/-1035.471 $\chi^2$/NDF: 10.8/18

Left In: 3103.015+/-1184.012 $\chi^2$/NDF:13.5/5

Left: 2583.393+/-833.960 $\chi^2$/NDF: 16.5/12

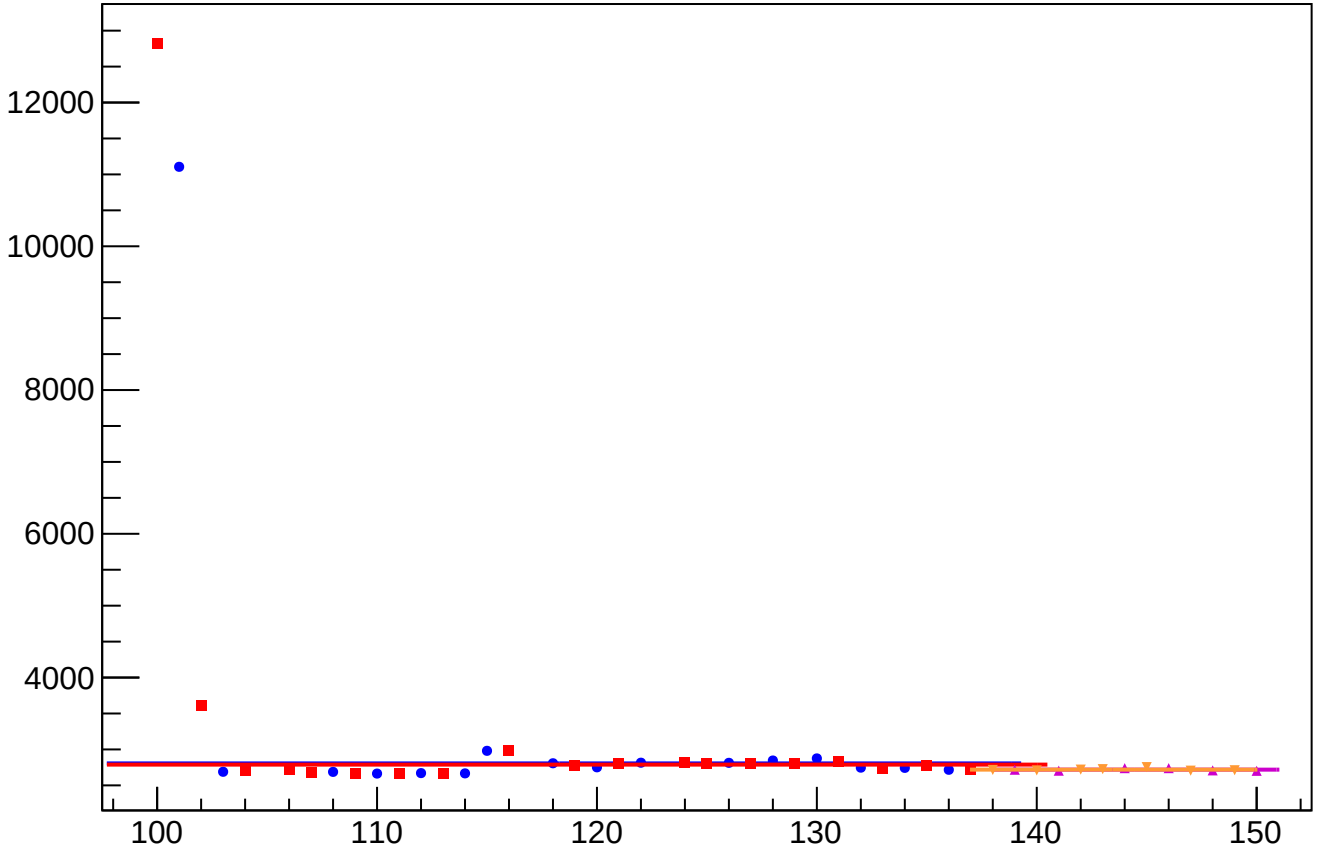
Right: 2236.684+/-744.229 $\chi^2$/NDF: 28.6/34

In: 2523.294+/-794.021 $\chi^2$/NDF:31.7/21

Out: 2263.182+/-776.813 $\chi^2$/NDF:13.5/25

All: 2390.389+/-555.274 $\chi^2$/NDF: 45.3/47

# reg_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746240.6/15

Left Out: 2719.138+/-0.831 $\chi^2$/NDF:364.4/6

Right Out: 2788.820+/-0.732 $\chi^2$/NDF: 146998.3/18

Left In: 2718.773+/-0.837 $\chi^2$/NDF:349.2/5

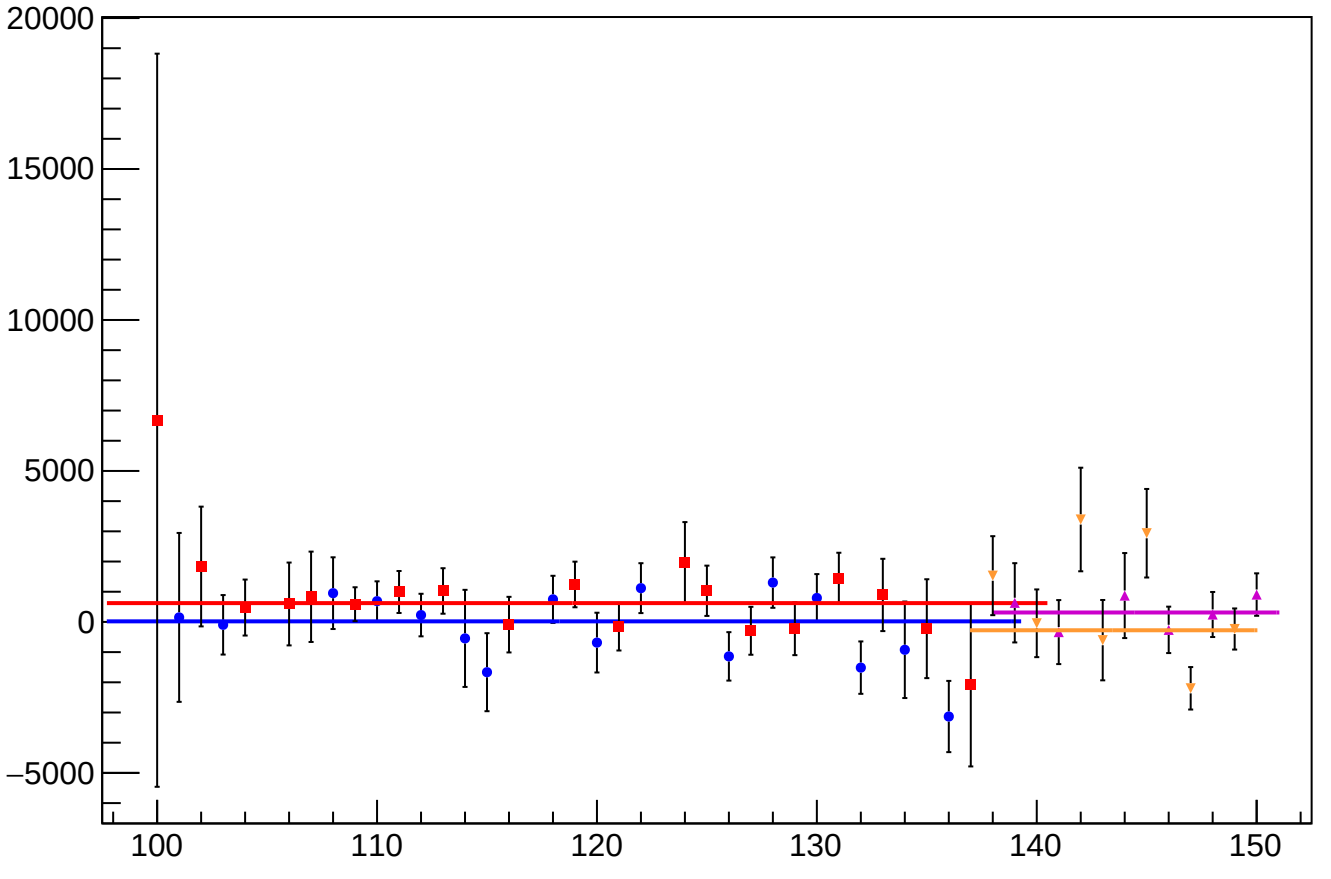
Left: 2718.957+/-0.590 $\chi^2$/NDF: 713.7/12

Right: 2796.857+/-0.526 $\chi^2$/NDF: 893488.2/34

In: 2766.466+/-0.561 $\chi^2$/NDF:752487.2/21

Out: 2758.356+/-0.549 $\chi^2$/NDF:151322.6/25

All: 2762.322+/-0.393 $\chi^2$/NDF: 903916.4/47




Right In: 18.981+/-233.483 $\chi^2$/NDF: 22.8/15

Left Out: -276.364+/-379.907 $\chi^2$/NDF:18.9/6

Right Out: 623.107+/-215.948 $\chi^2$/NDF: 9.3/18

Left In: 312.218+/-365.496 $\chi^2$/NDF:1.9/5

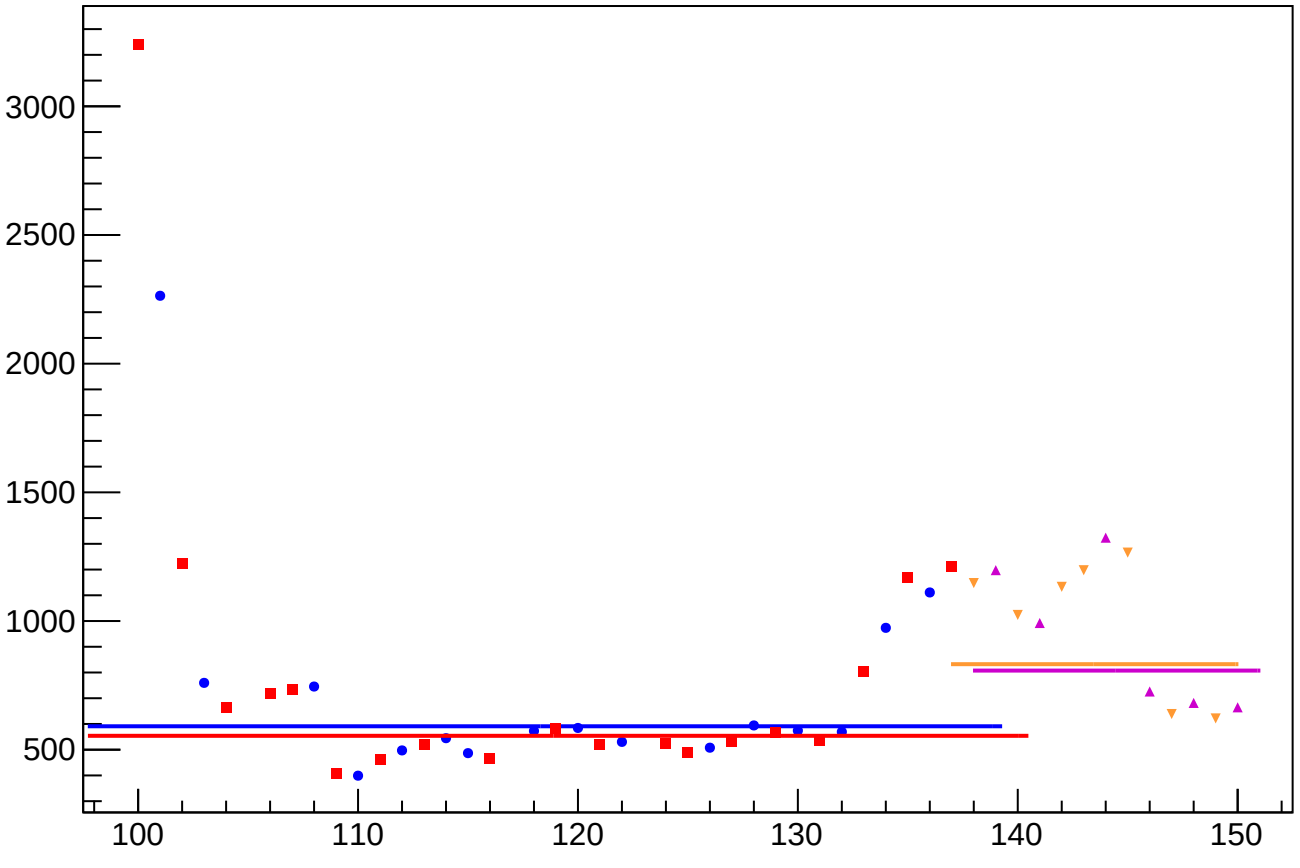
Left: 29.302+/-263.392 $\chi^2$/NDF: 22.0/12

Right: 344.579+/-158.535 $\chi^2$/NDF: 35.6/34

In: 103.965+/-196.762 $\chi^2$/NDF:25.1/21

Out: 403.454+/-187.738 $\chi^2$/NDF:32.4/25

All: 260.735+/-135.829 $\chi^2$/NDF: 58.7/47




Right In: 591.041+/-0.165 $\chi^2$/NDF: 1567663.5/15

Left Out: 832.319+/-0.269 $\chi^2$/NDF:904529.0/6

Right Out: 553.982+/-0.153 $\chi^2$/NDF: 1116915.2/18

Left In: 807.446+/-0.258 $\chi^2$/NDF:668262.0/5

Left: 819.402+/-0.186 $\chi^2$/NDF: 1577243.3/12

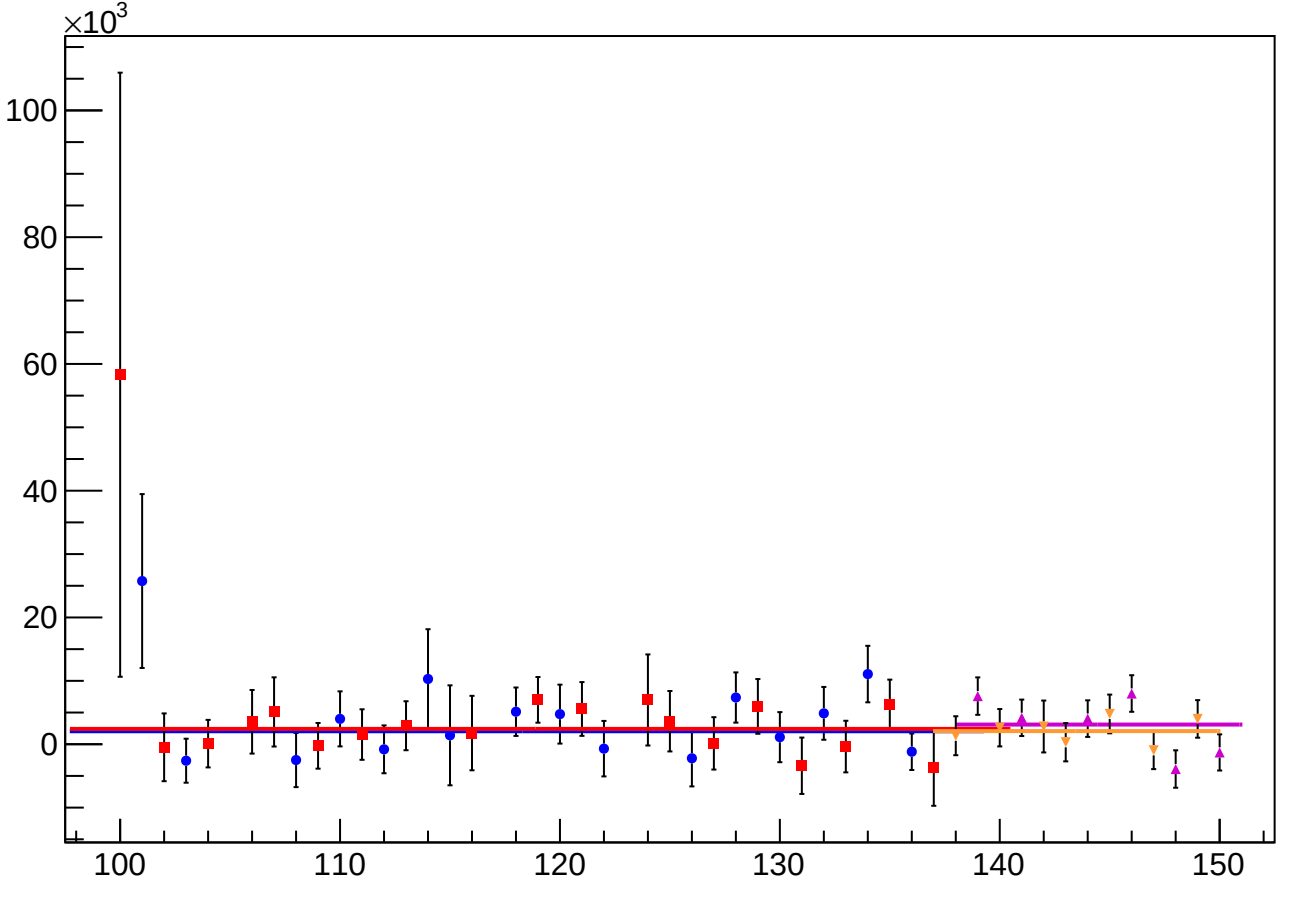
Right: 571.068+/-0.112 $\chi^2$/NDF: 2711735.0/34

In: 653.758+/-0.139 $\chi^2$/NDF:2733858.2/21

Out: 621.952+/-0.133 $\chi^2$/NDF:2832823.7/25

All: 637.109+/-0.096 $\chi^2$/NDF: 5594036.7/47

# cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2071.746+/-1174.838 $\chi^2$/NDF:2.7/6

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 3103.295+/-1184.012 $\chi^2$/NDF:13.5/5

Left: 2583.509+/-833.960 $\chi^2$/NDF: 16.5/12

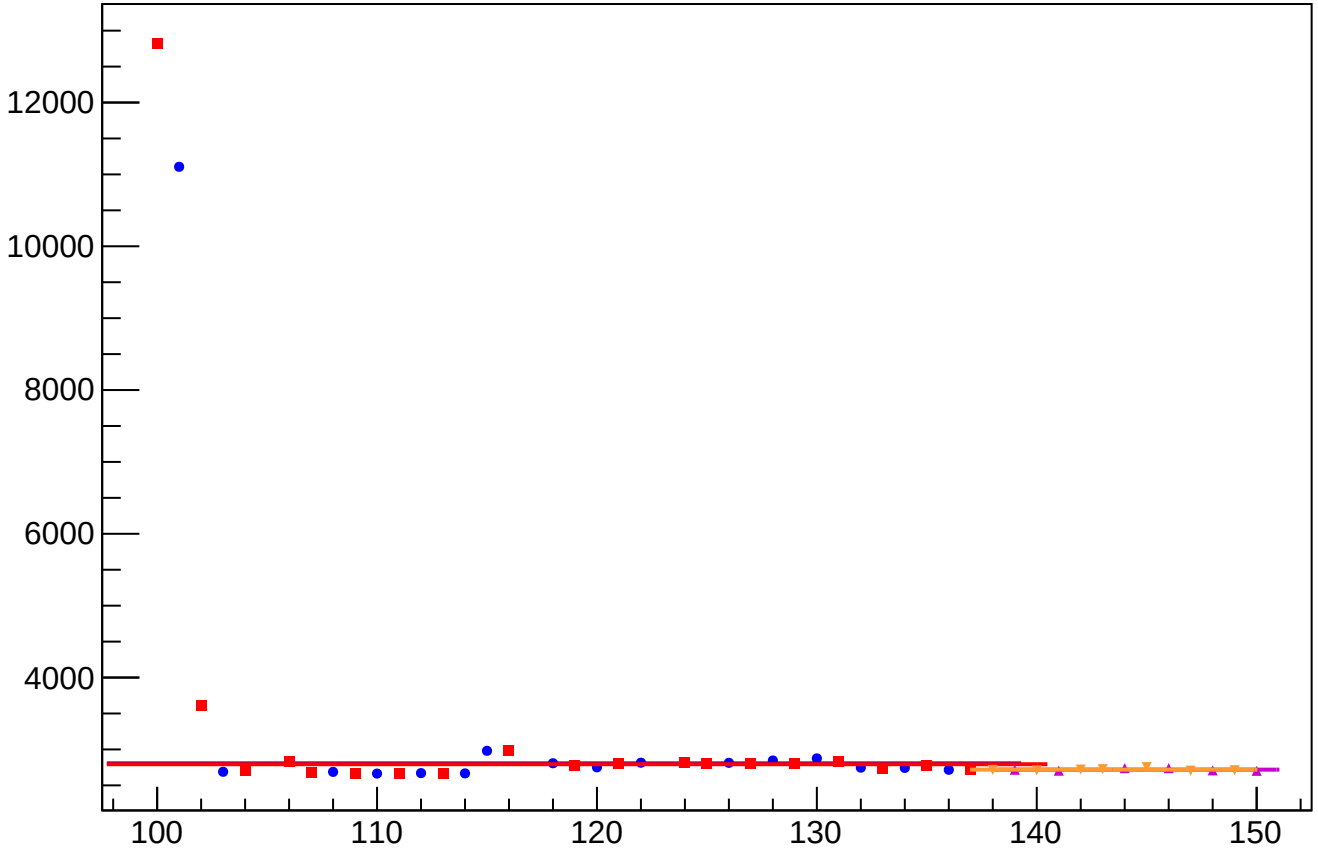
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2522.977+/-794.021 $\chi^2$/NDF:31.7/21

Out: 2266.176+/-777.818 $\chi^2$/NDF:13.5/25

All: 2391.929+/-555.640 $\chi^2$/NDF: 45.2/47

# cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2719.138+/-0.831 $\chi^2$/NDF:364.4/6

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2718.773+/-0.837 $\chi^2$/NDF:349.2/5

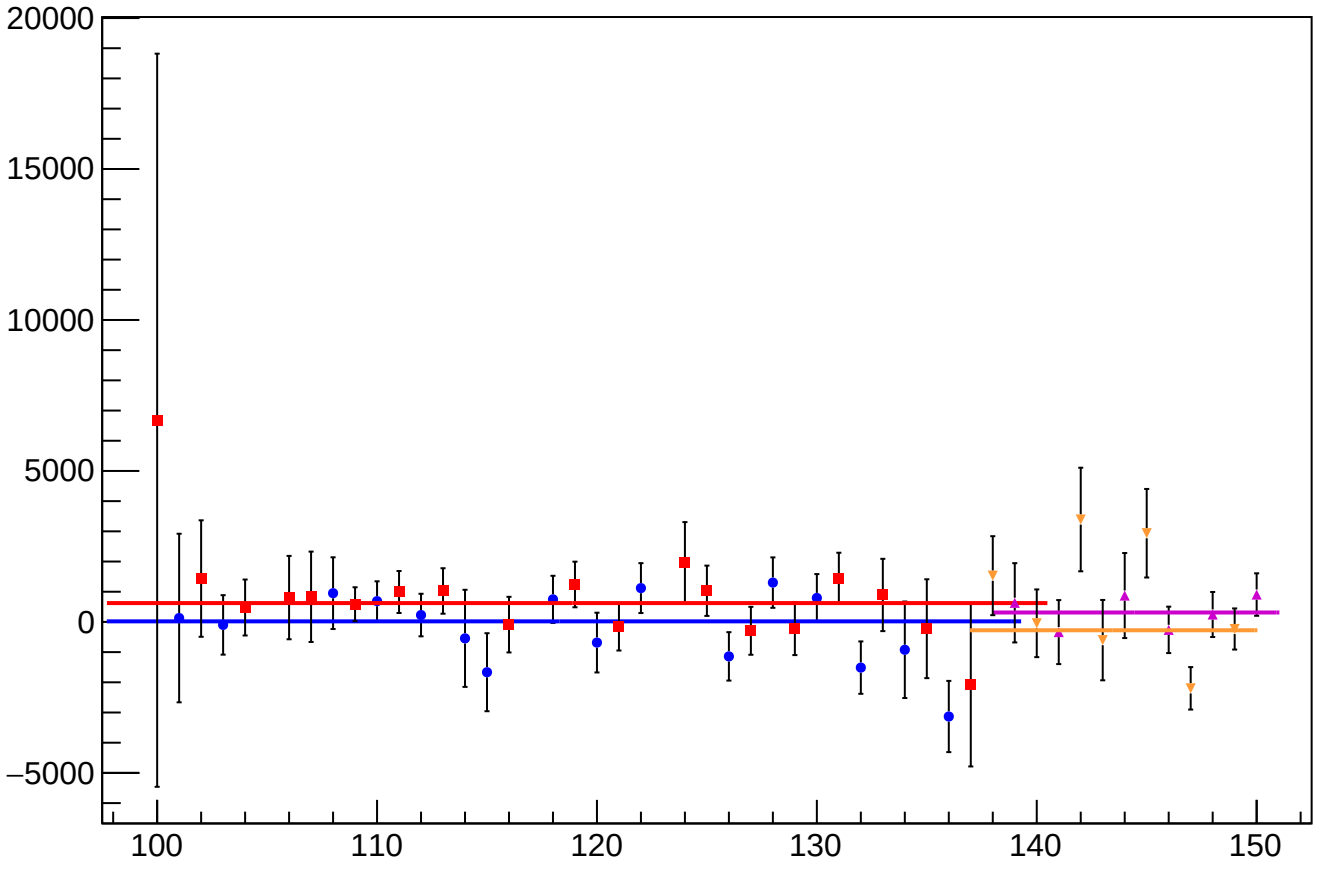
Left: 2718.957+/-0.590 $\chi^2$/NDF: 713.7/12

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2766.466+/-0.561 $\chi^2$/NDF:752486.3/21

Out: 2761.274+/-0.550 $\chi^2$/NDF:151689.0/25

All: 2763.817+/-0.393 $\chi^2$/NDF: 904219.0/47




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: -276.451+/-379.903 $\chi^2$/NDF:18.9/6

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 312.358+/-365.497 $\chi^2$/NDF:1.9/5

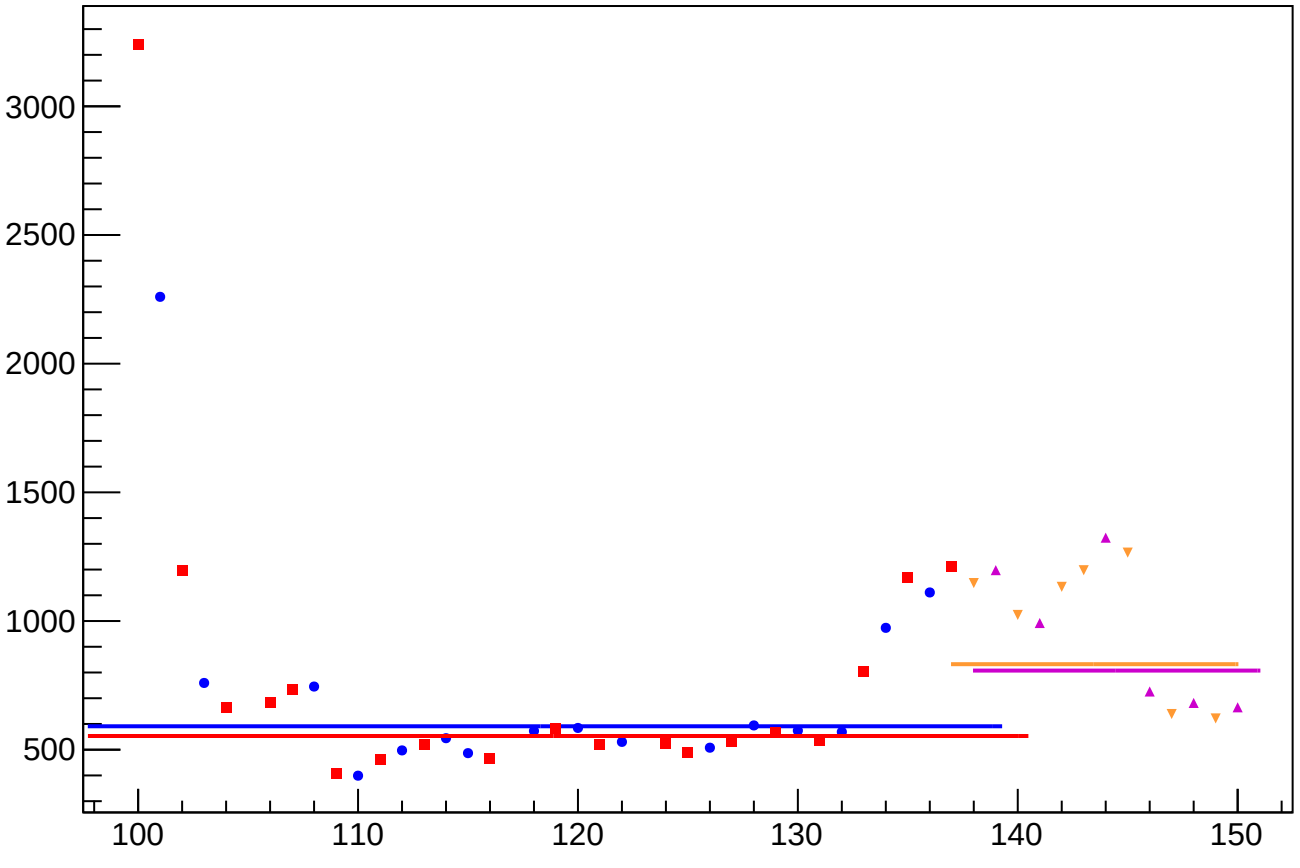
Left: 29.329+/-263.391 $\chi^2$/NDF: 22.0/12

Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 103.970+/-196.755 $\chi^2$/NDF:25.1/21

Out: 404.340+/-187.707 $\chi^2$/NDF:32.2/25

All: 261.220+/-135.815 $\chi^2$/NDF: 58.5/47




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 832.308+/-0.269 $\chi^2$/NDF:904542.6/6

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 807.447+/-0.258 $\chi^2$/NDF:668252.1/5

Left: 819.397+/-0.186 $\chi^2$/NDF: 1577242.4/12

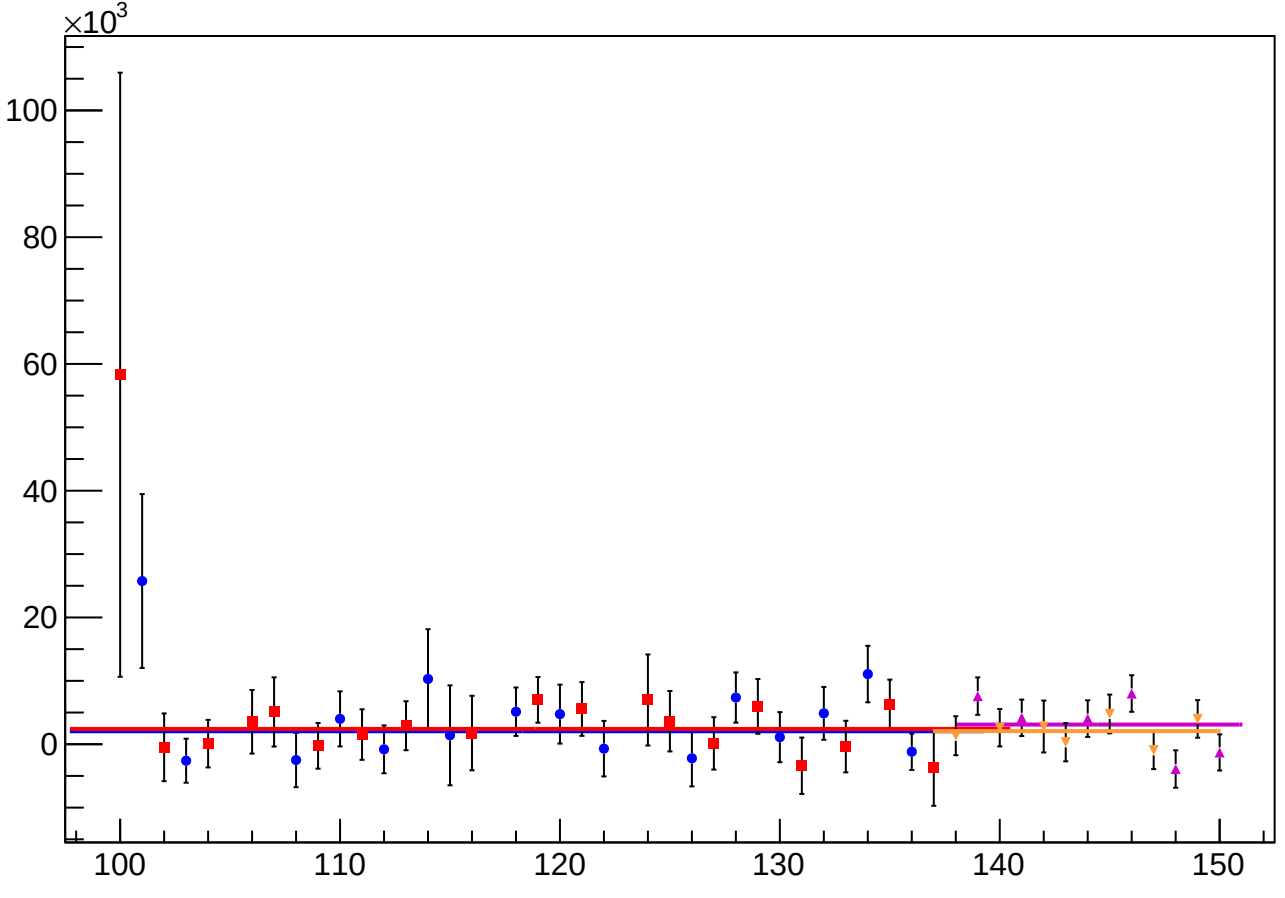
Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 653.752+/-0.139 $\chi^2$/NDF:2732846.5/21

Out: 621.362+/-0.133 $\chi^2$/NDF:2821976.3/25

All: 636.796+/-0.096 $\chi^2$/NDF: 5583197.7/47

# eigen_cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2071.746+/-1174.838 $\chi^2$/NDF:2.7/6

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 3103.295+/-1184.012 $\chi^2$/NDF:13.5/5

Left: 2583.509+/-833.960 $\chi^2$/NDF: 16.5/12

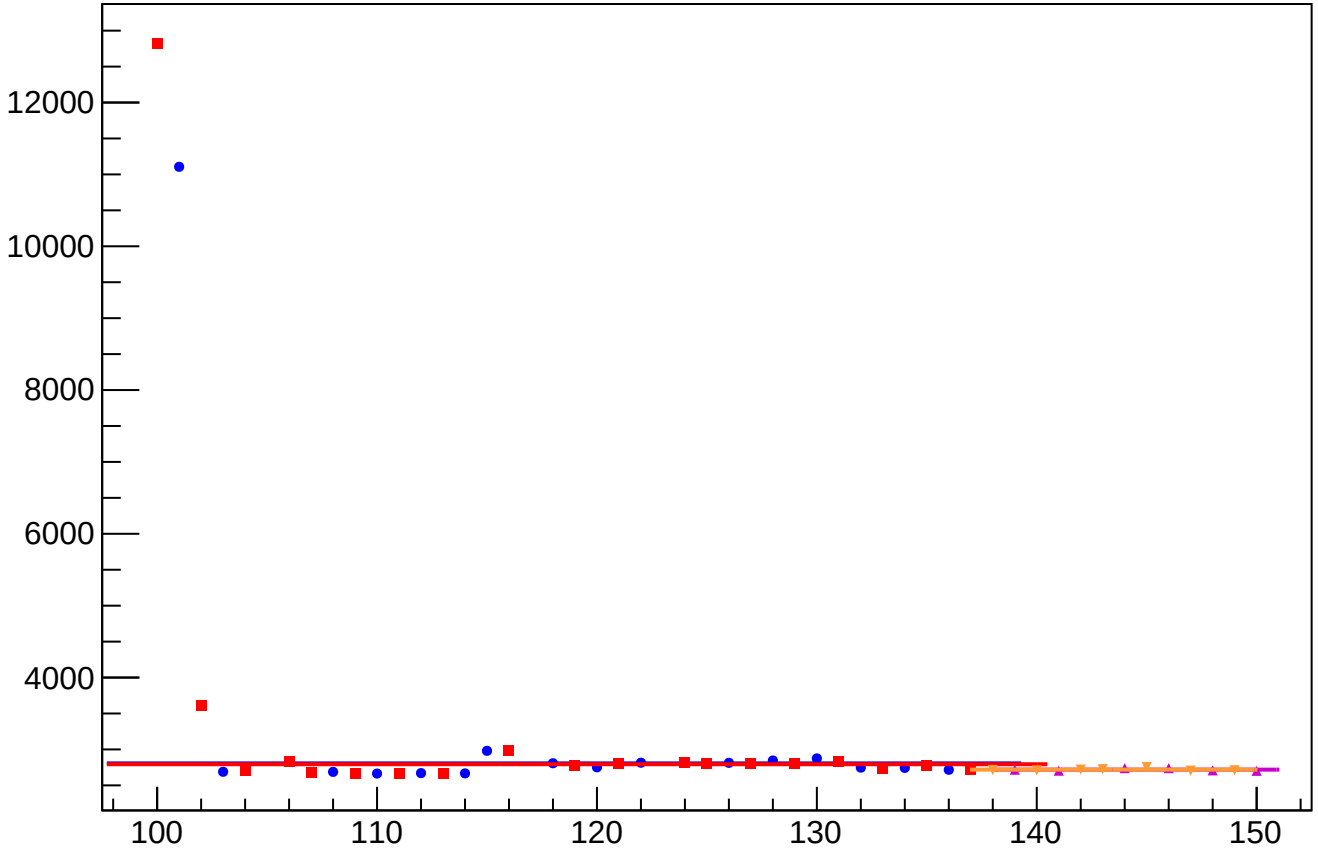
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2522.977+/-794.021 $\chi^2$/NDF:31.7/21

Out: 2266.176+/-777.818 $\chi^2$/NDF:13.5/25

All: 2391.929+/-555.640 $\chi^2$/NDF: 45.2/47

# eigen_cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2719.138+/-0.831 $\chi^2$/NDF:364.4/6

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2718.773+/-0.837 $\chi^2$/NDF:349.2/5

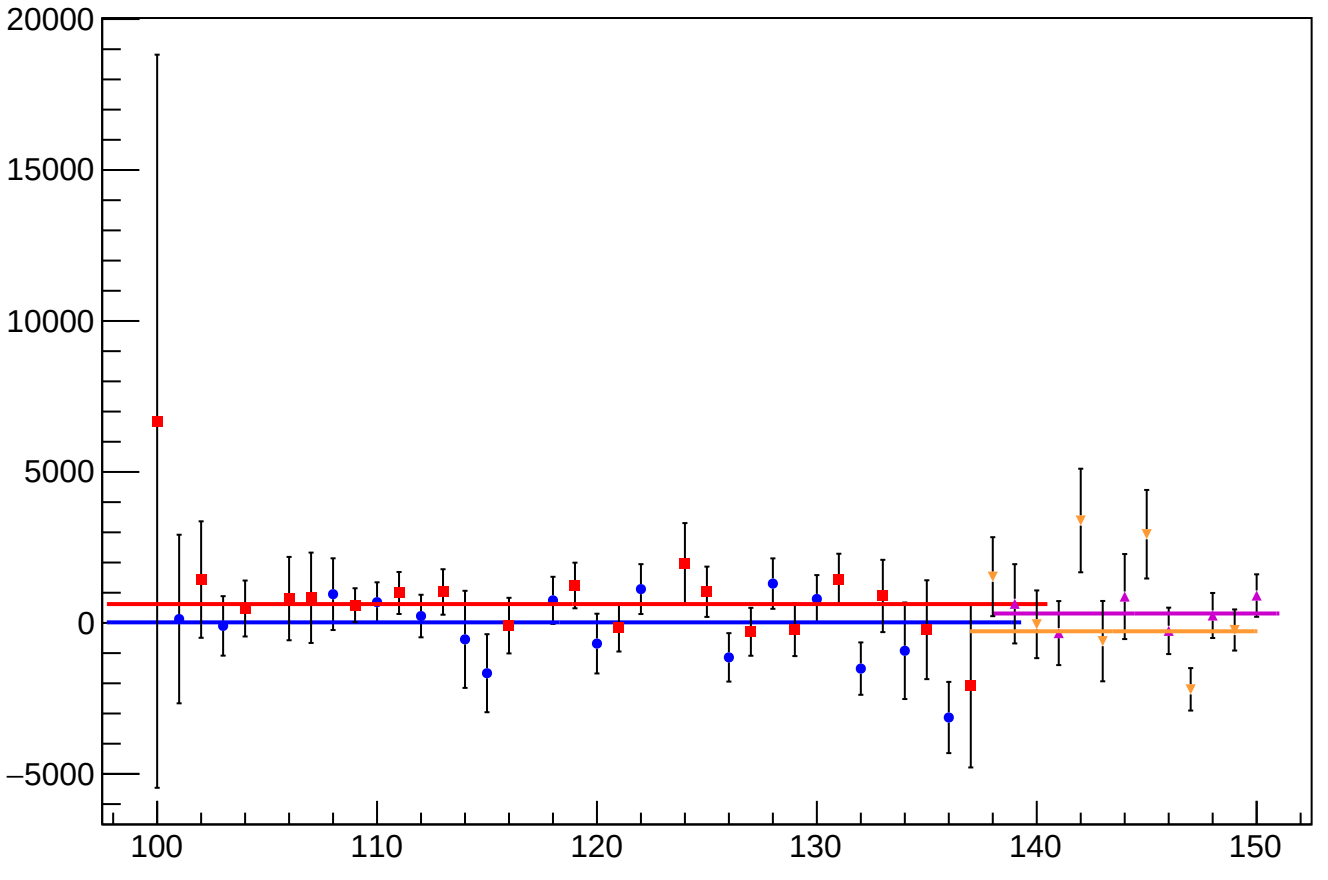
Left: 2718.957+/-0.590 $\chi^2$/NDF: 713.7/12

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2766.466+/-0.561 $\chi^2$/NDF:752486.3/21

Out: 2761.274+/-0.550 $\chi^2$/NDF:151689.0/25

All: 2763.817+/-0.393 $\chi^2$/NDF: 904219.0/47




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: -276.451+/-379.903 $\chi^2$/NDF:18.9/6

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 312.358+/-365.497 $\chi^2$/NDF:1.9/5

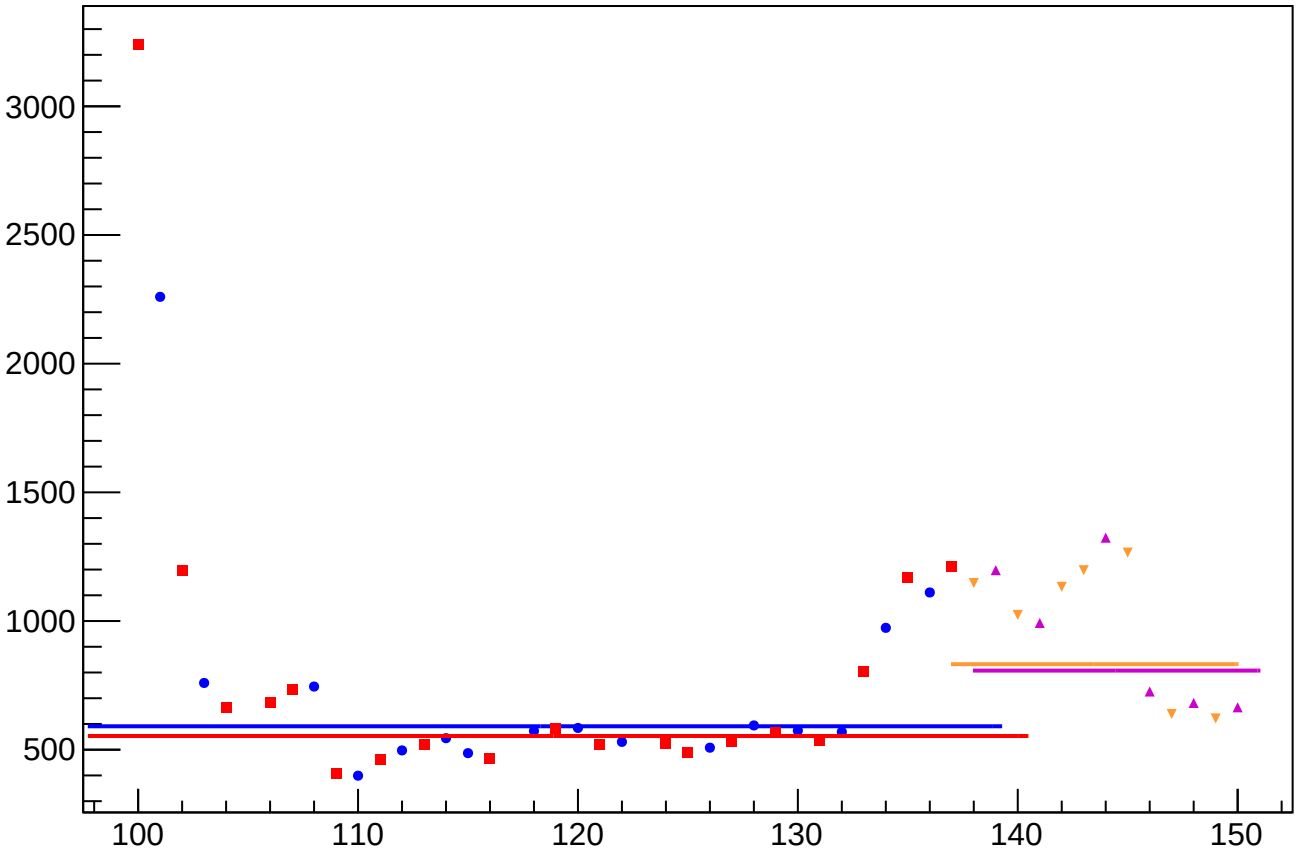
Left: 29.329+/-263.391 $\chi^2$/NDF: 22.0/12

Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 103.970+/-196.755 $\chi^2$/NDF:25.1/21

Out: 404.340+/-187.707 $\chi^2$/NDF:32.2/25

All: 261.220+/-135.815 $\chi^2$/NDF: 58.5/47




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 832.308+/-0.269 $\chi^2$/NDF:904542.6/6

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 807.447+/-0.258 $\chi^2$/NDF:668252.1/5

Left: 819.397+/-0.186 $\chi^2$/NDF: 1577242.4/12

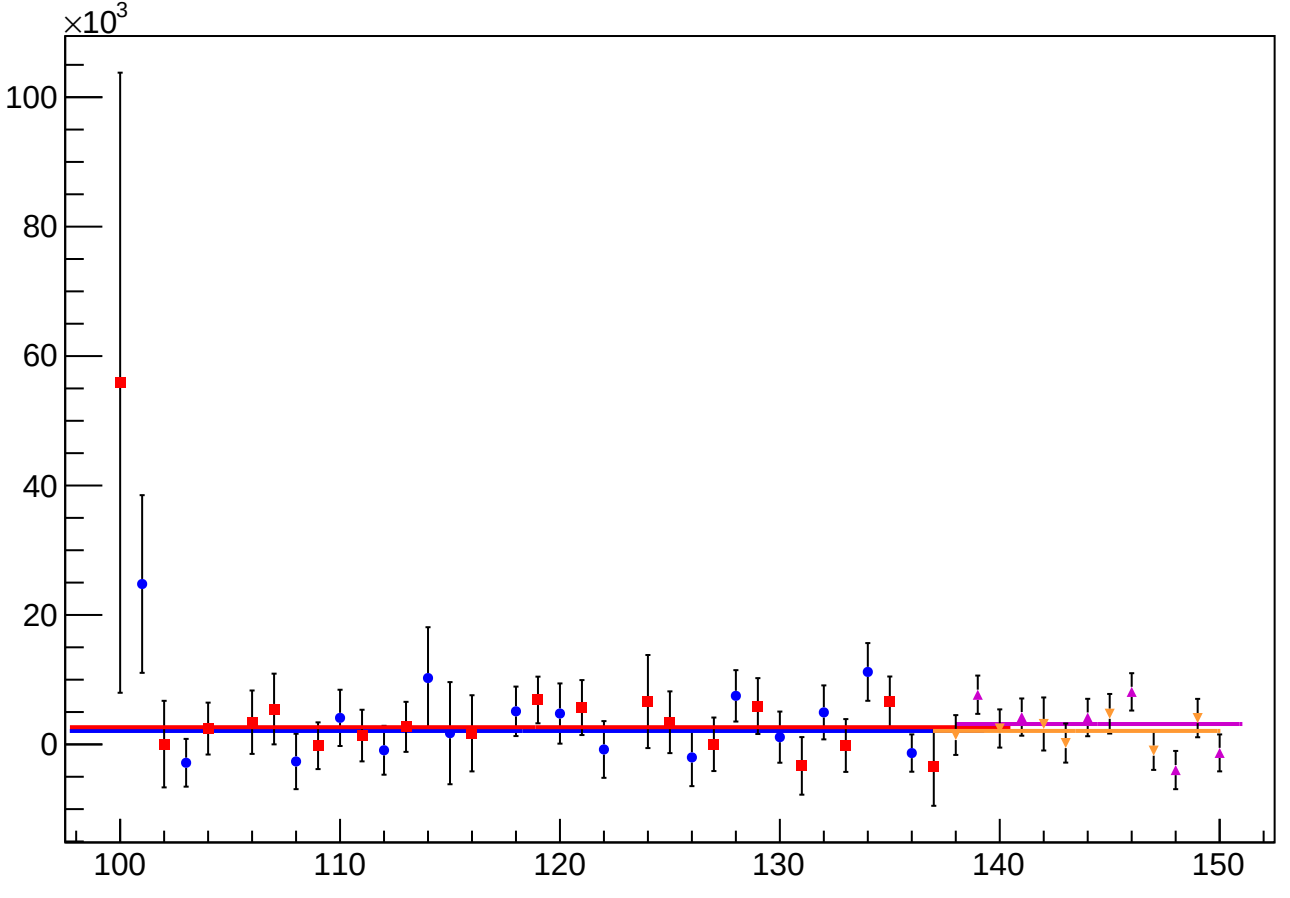
Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 653.752+/-0.139 $\chi^2$/NDF:2732846.5/21

Out: 621.362+/-0.133 $\chi^2$/NDF:2821976.3/25

All: 636.796+/-0.096 $\chi^2$/NDF: 5583197.7/47

# dit_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2081.026+/-1175.793 $\chi^2$/NDF:2.8/6

Right Out: 2657.301+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 3149.481+/-1184.885 $\chi^2$/NDF:13.8/5

Left: 2611.139+/-834.607 $\chi^2$/NDF: 17.0/12

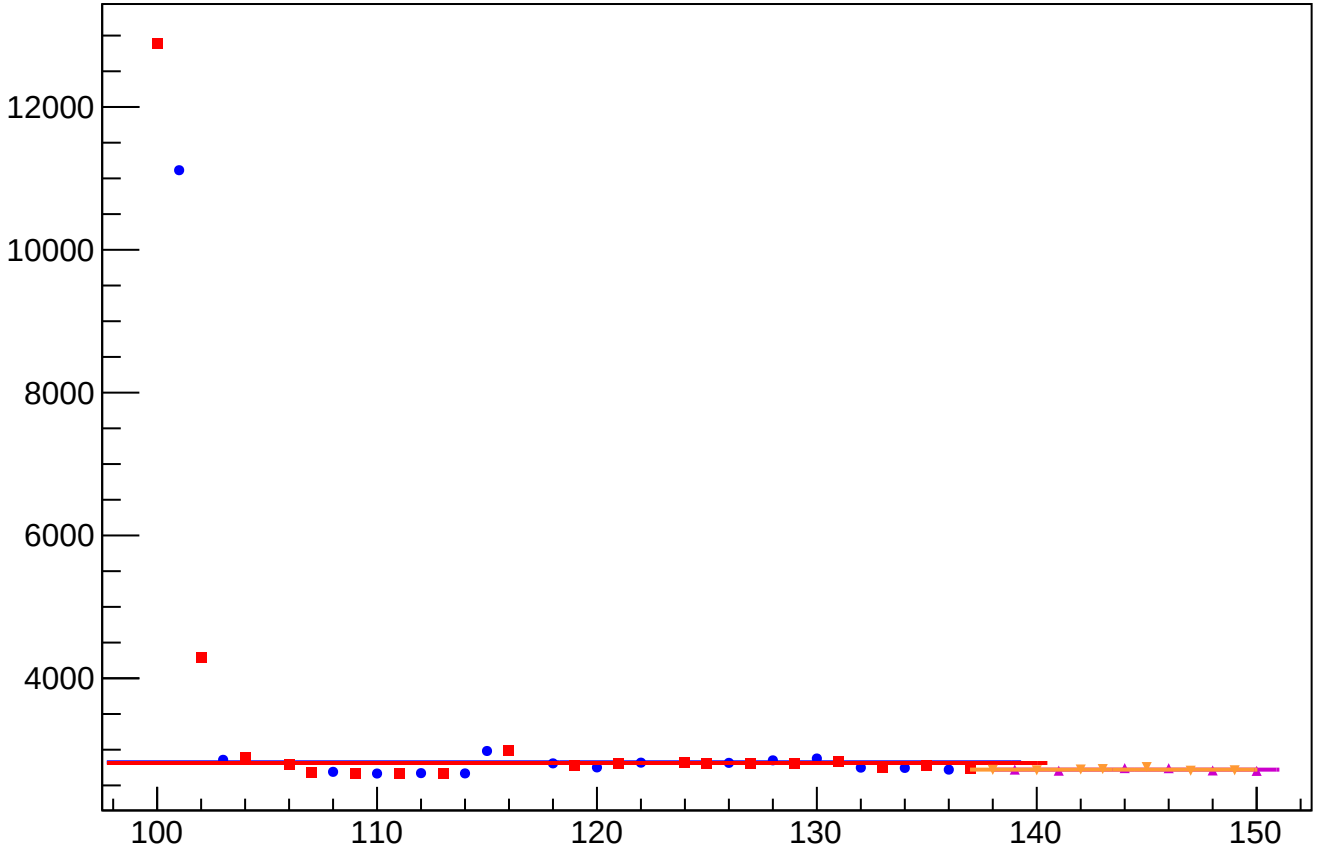
Right: 2373.513+/-751.840 $\chi^2$/NDF: 28.0/34

In: 2561.069+/-797.045 $\chi^2$/NDF:32.1/21

Out: 2401.665+/-783.119 $\chi^2$/NDF:12.8/25

All: 2479.962+/-558.607 $\chi^2$/NDF: 45.0/47

# dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2721.343+/-0.831 $\chi^2$/NDF:381.7/6

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.9/18

Left In: 2720.757+/-0.838 $\chi^2$/NDF:367.4/5

Left: 2721.052+/-0.590 $\chi^2$/NDF: 749.4/12

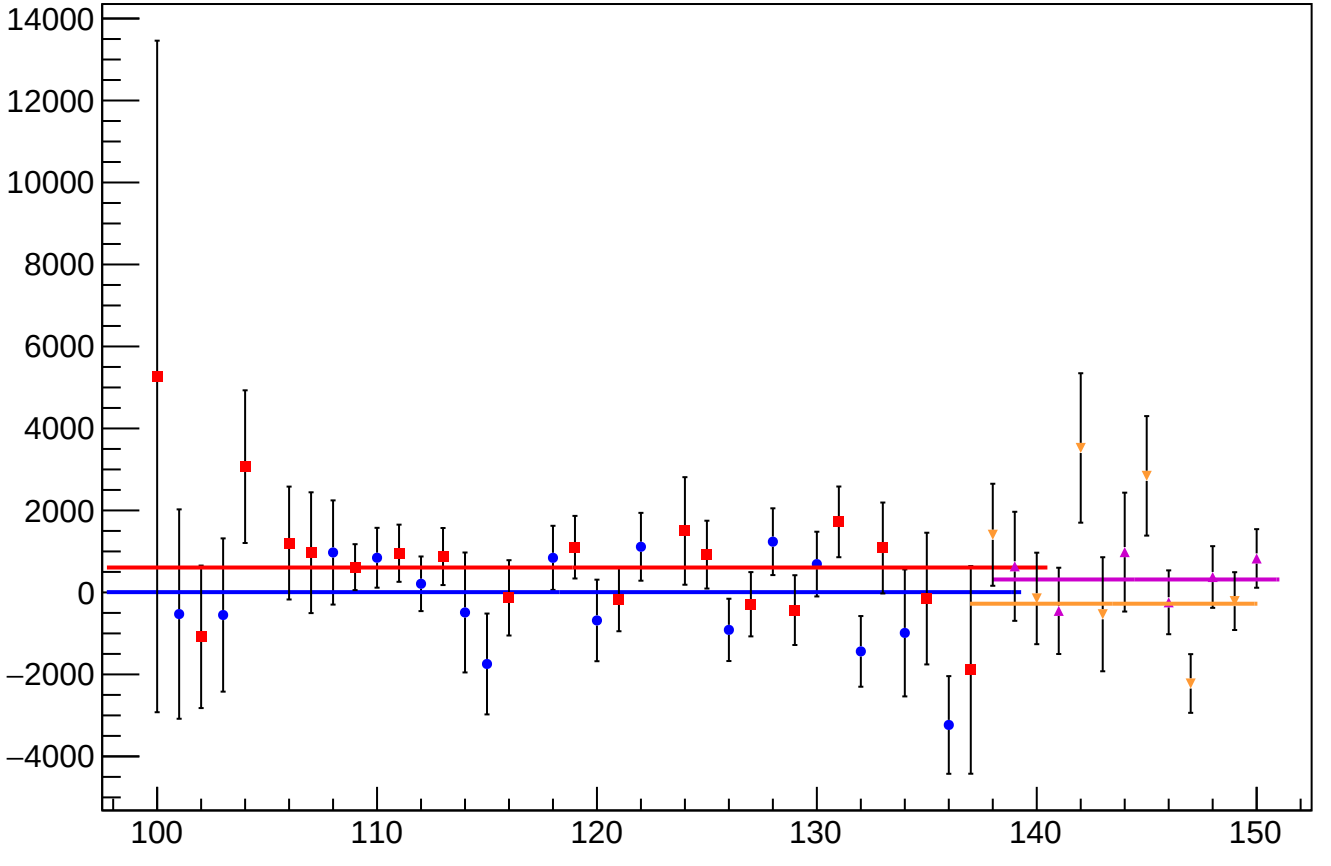
Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.9/34

In: 2776.981+/-0.564 $\chi^2$/NDF:752508.5/21

Out: 2772.798+/-0.554 $\chi^2$/NDF:207777.5/25

All: 2774.852+/-0.395 $\chi^2$/NDF: 960314.0/47

# asym_atr1_dit_correction_mean vs Slug, Sign Corrected




Right In: 7.048+/-237.455 $\chi^2$/NDF: 22.8/15

Left Out: -275.450+/-386.361 $\chi^2$/NDF:18.2/6

Right Out: 607.647+/-217.093 $\chi^2$/NDF: 12.2/18

Left In: 315.816+/-369.682 $\chi^2$/NDF:1.8/5

Left: 33.220+/-267.107 $\chi^2$/NDF: 21.2/12

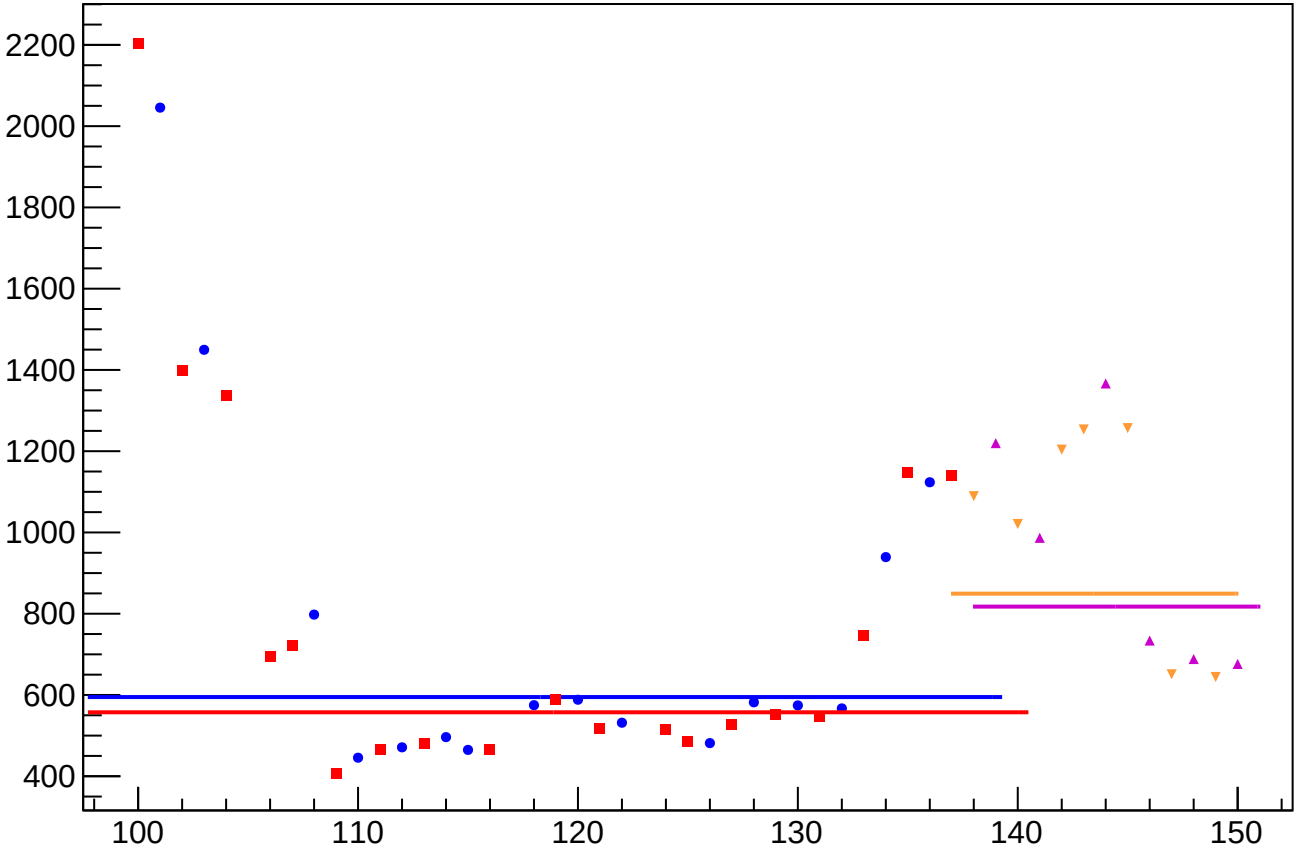
Right: 334.198+/-160.224 $\chi^2$/NDF: 38.5/34

In: 97.231+/-199.791 $\chi^2$/NDF:25.1/21

Out: 395.737+/-189.262 $\chi^2$/NDF:34.3/25

All: 254.556+/-137.400 $\chi^2$/NDF: 60.6/47

# asym_atr1_dit_correction_rms vs Slug, Sign Corrected




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852655.3/15

Left Out: 849.370+/-0.273 $\chi^2$/NDF:844983.0/6

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631309.6/18

Left In: 817.497+/-0.261 $\chi^2$/NDF:681495.2/5

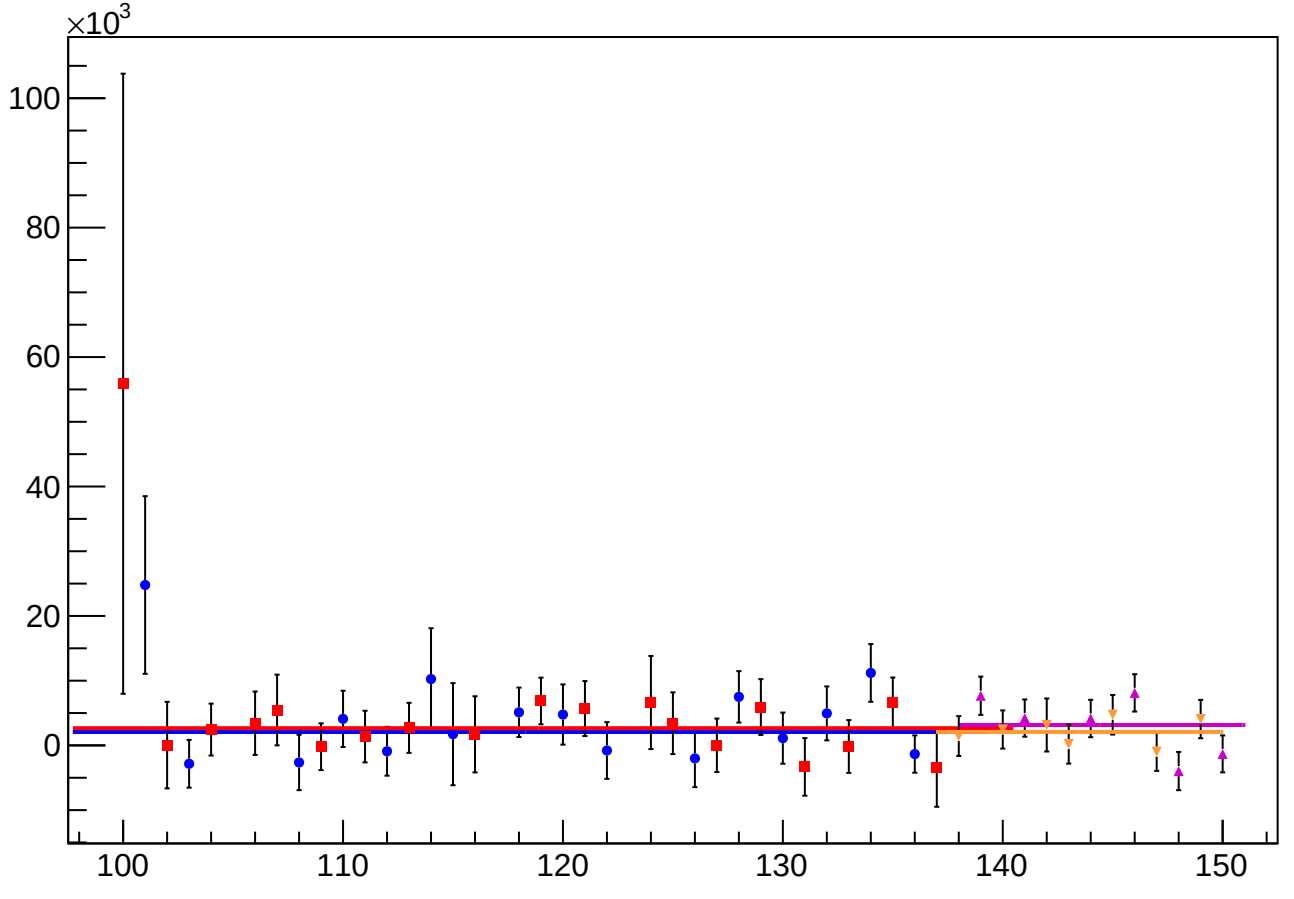
Left: 832.731+/-0.189 $\chi^2$/NDF: 1533583.9/12

Right: 574.453+/-0.113 $\chi^2$/NDF: 3511078.0/34

In: 659.885+/-0.141 $\chi^2$/NDF:3047678.5/21

Out: 627.459+/-0.134 $\chi^2$/NDF:3344382.6/25

All: 642.795+/-0.097 $\chi^2$/NDF: 6419825.9/47




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2081.027+/-1175.793 $\chi^2$/NDF:2.8/6

Right Out: 2657.300+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 3149.481+/-1184.885 $\chi^2$/NDF:13.8/5

Left: 2611.140+/-834.607 $\chi^2$/NDF: 17.0/12

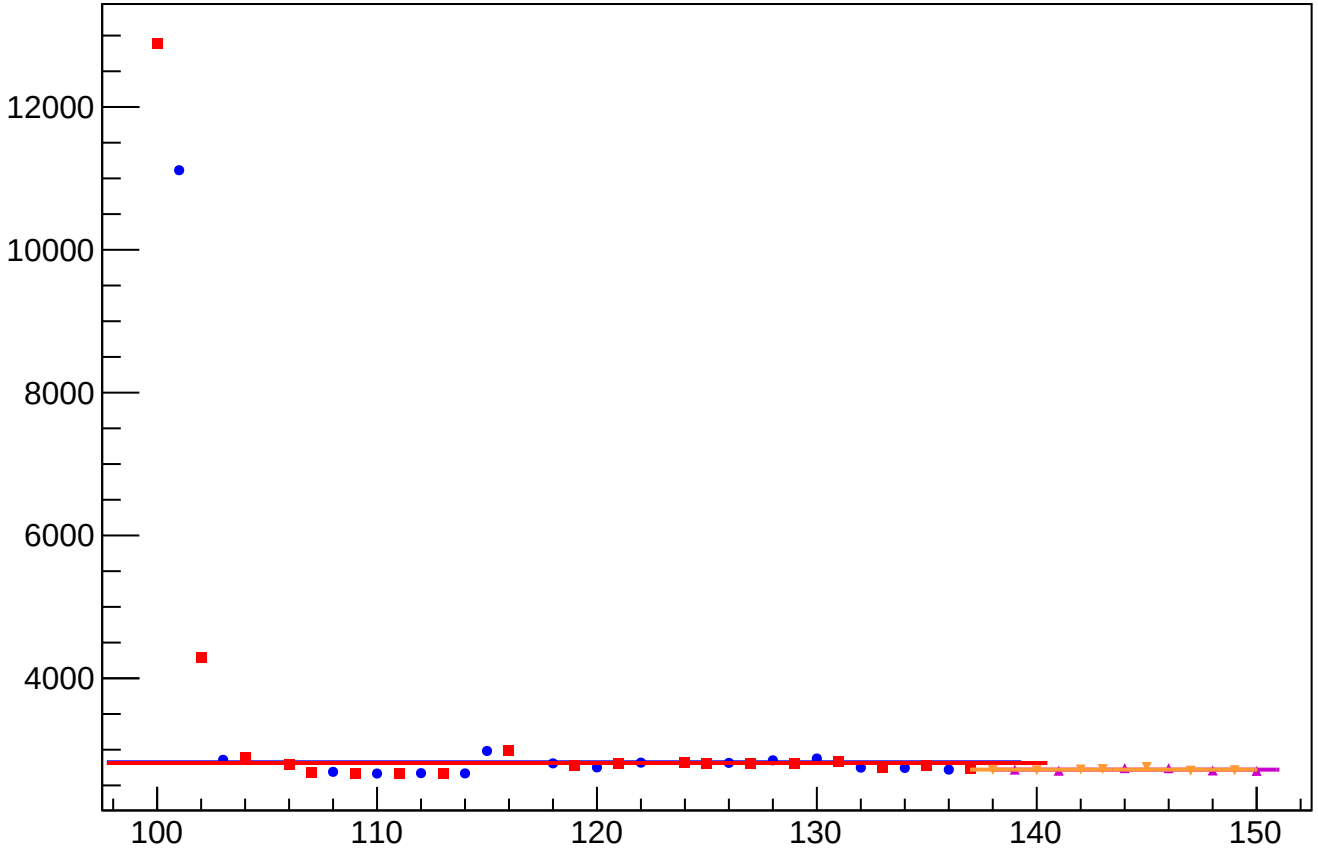
Right: 2373.512+/-751.840 $\chi^2$/NDF: 28.0/34

In: 2561.069+/-797.045 $\chi^2$/NDF:32.1/21

Out: 2401.665+/-783.119 $\chi^2$/NDF:12.8/25

All: 2479.962+/-558.607 $\chi^2$/NDF: 45.0/47

# eigen_dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2721.343+/-0.831 $\chi^2$/NDF:381.7/6

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.7/18

Left In: 2720.757+/-0.838 $\chi^2$/NDF:367.4/5

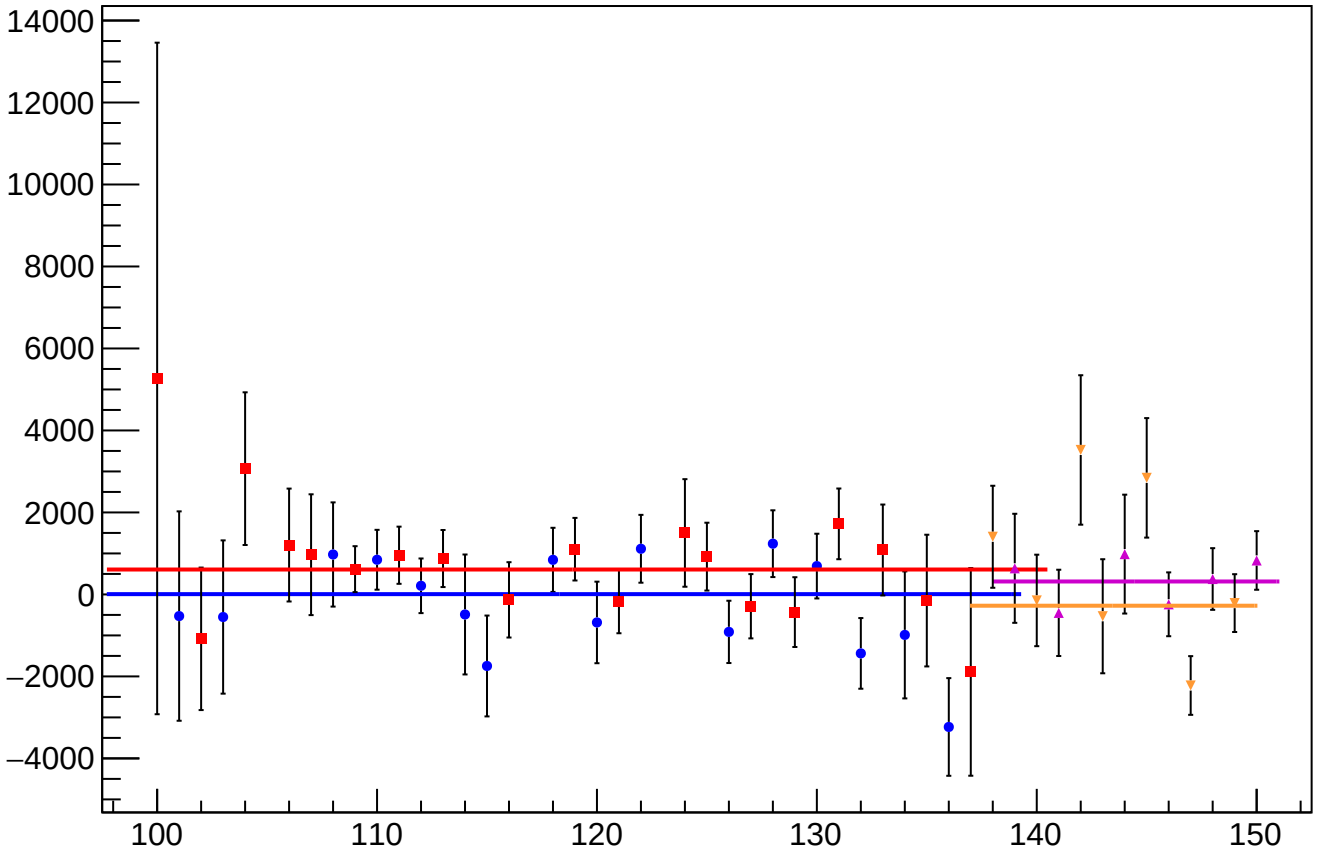
Left: 2721.052+/-0.590 $\chi^2$/NDF: 749.4/12

Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.7/34

In: 2776.981+/-0.564 $\chi^2$/NDF:752508.5/21

Out: 2772.798+/-0.554 $\chi^2$/NDF:207777.3/25

All: 2774.852+/-0.395 $\chi^2$/NDF: 960313.7/47




Right In: 7.049+/-237.455 $\chi^2$/NDF: 22.8/15

Left Out: -275.450+/-386.361 $\chi^2$/NDF:18.2/6

Right Out: 607.647+/-217.094 $\chi^2$/NDF: 12.2/18

Left In: 315.816+/-369.682 $\chi^2$/NDF:1.8/5

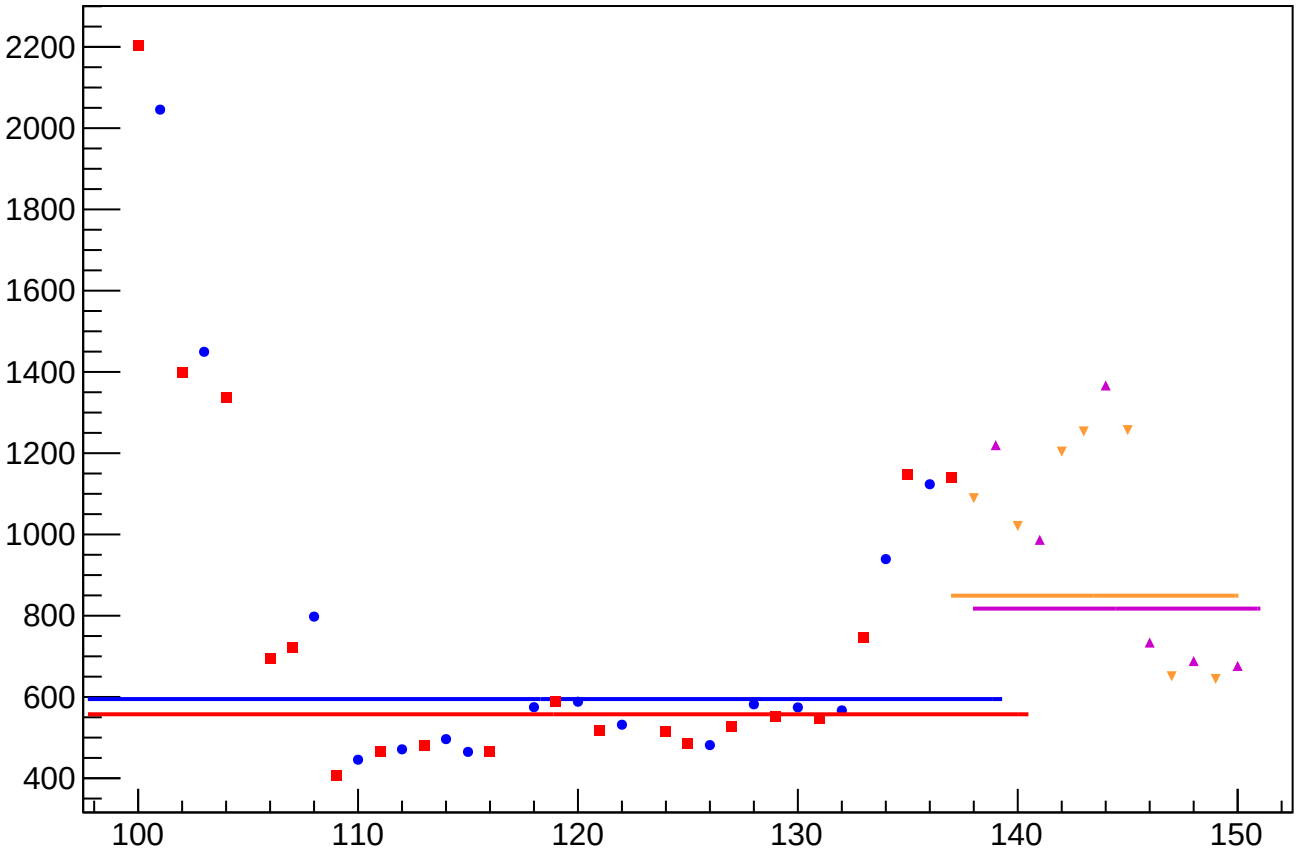
Left: 33.220+/-267.107 $\chi^2$/NDF: 21.2/12

Right: 334.198+/-160.224 $\chi^2$/NDF: 38.5/34

In: 97.232+/-199.791 $\chi^2$/NDF:25.1/21

Out: 395.737+/-189.262 $\chi^2$/NDF:34.3/25

All: 254.557+/-137.400 $\chi^2$/NDF: 60.6/47




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852649.9/15

Left Out: 849.371+/-0.273 $\chi^2$/NDF:844984.0/6

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631307.0/18

Left In: 817.497+/-0.261 $\chi^2$/NDF:681495.4/5

Left: 832.731+/-0.189 $\chi^2$/NDF: 1533585.0/12

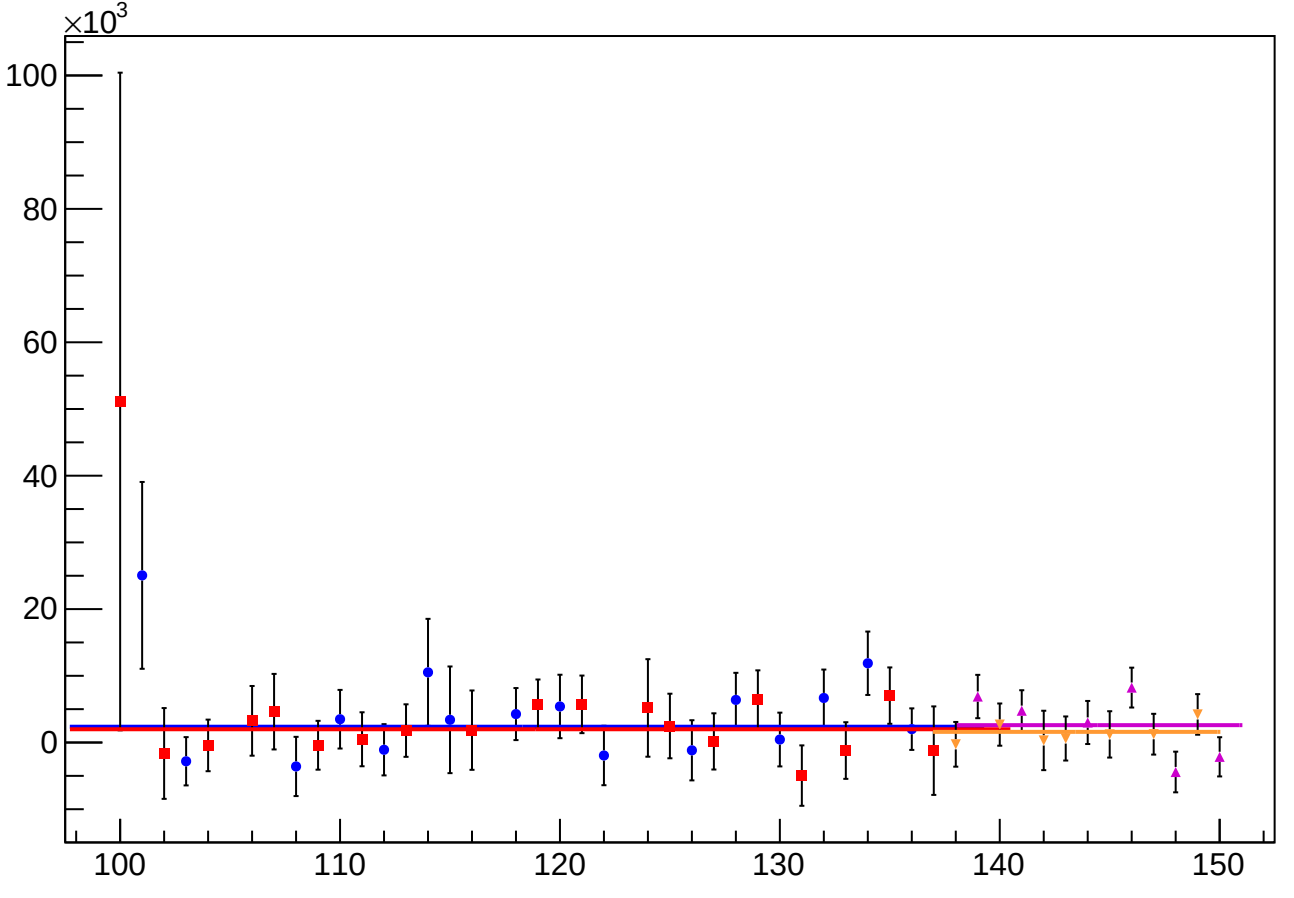
Right: 574.453+/-0.113 $\chi^2$/NDF: 3511070.4/34

In: 659.885+/-0.141 $\chi^2$/NDF:3047672.9/21

Out: 627.460+/-0.134 $\chi^2$/NDF:3344381.7/25

All: 642.796+/-0.097 $\chi^2$/NDF: 6419819.9/47

# asym_atr1_mean vs Slug, Sign Corrected




Right In: 2367.173+/-1106.203 $\chi^2$/NDF: 16.8/15

Left Out: 1596.214+/-1261.018 $\chi^2$/NDF:1.4/6

Right Out: 1987.039+/-1075.310 $\chi^2$/NDF: 10.3/18

Left In: 2601.908+/-1257.893 $\chi^2$/NDF:13.7/5

Left: 2100.309+/-890.568 $\chi^2$/NDF: 15.4/12

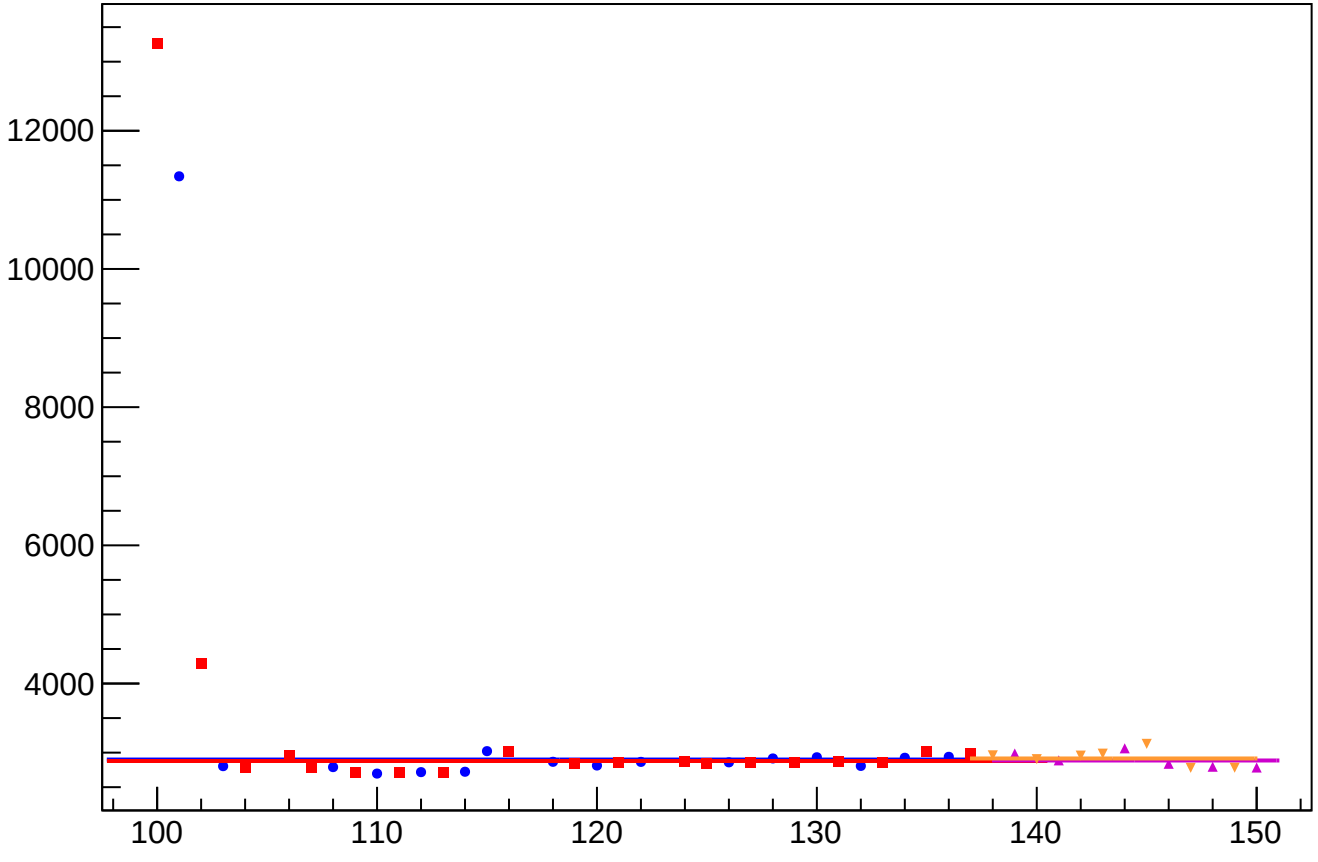
Right: 2171.724+/-771.049 $\chi^2$/NDF: 27.2/34

In: 2469.541+/-830.685 $\chi^2$/NDF:30.6/21

Out: 1822.497+/-818.217 $\chi^2$/NDF:11.7/25

All: 2141.127+/-582.925 $\chi^2$/NDF: 42.6/47

# asym_atr1_rms vs Slug, Sign Corrected




Right In: 2899.827+/-0.782 $\chi^2$/NDF: 741818.2/15

Left Out: 2915.438+/-0.892 $\chi^2$/NDF:16624.0/6

Right Out: 2878.957+/-0.760 $\chi^2$/NDF: 193282.4/18

Left In: 2886.251+/-0.889 $\chi^2$/NDF:12533.0/5

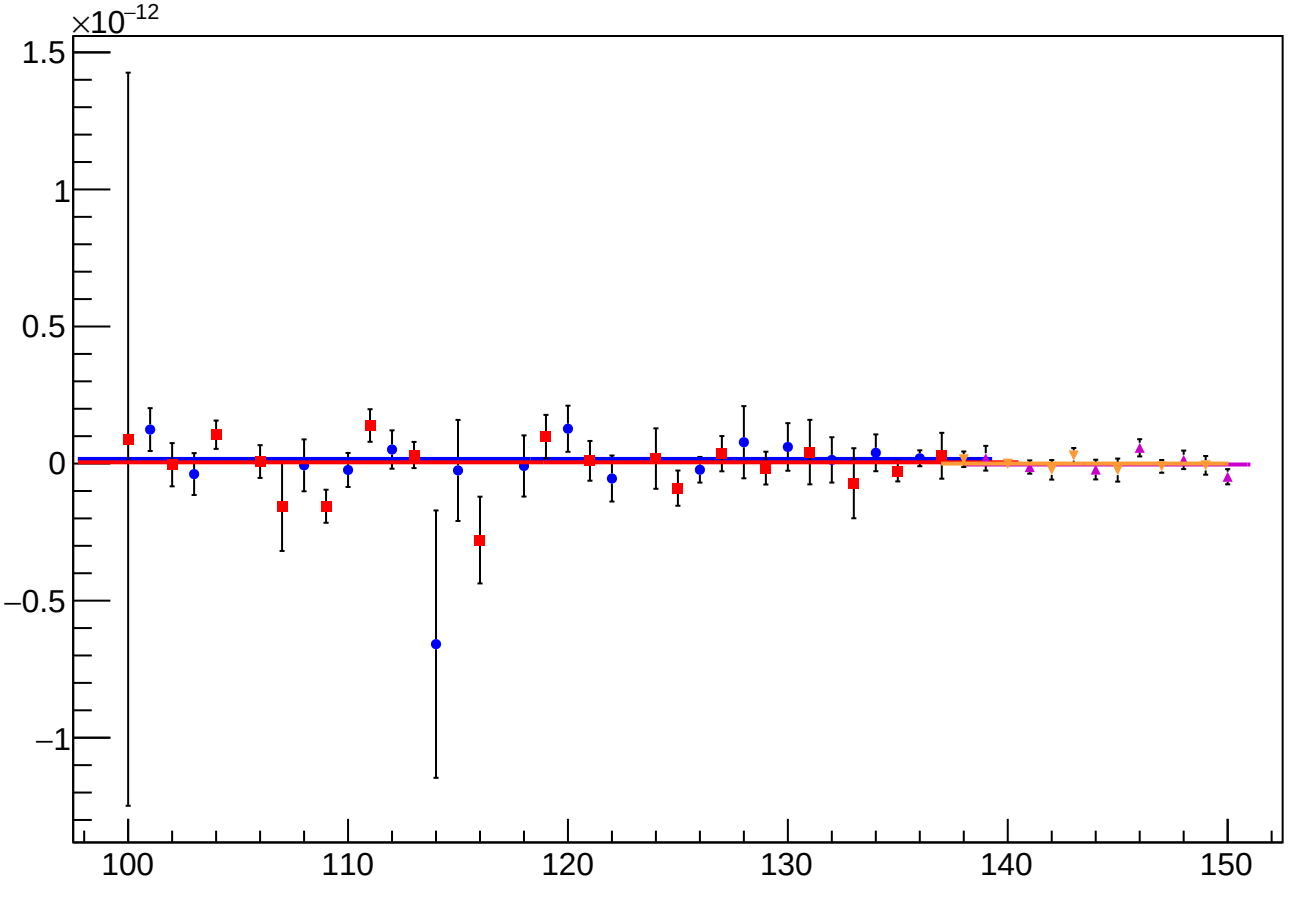
Left: 2900.808+/-0.630 $\chi^2$/NDF: 29694.1/12

Right: 2889.097+/-0.545 $\chi^2$/NDF: 935466.6/34

In: 2893.907+/-0.587 $\chi^2$/NDF:754482.5/21

Out: 2894.316+/-0.579 $\chi^2$/NDF:210875.7/25

All: 2894.114+/-0.412 $\chi^2$/NDF: 965358.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.3/5

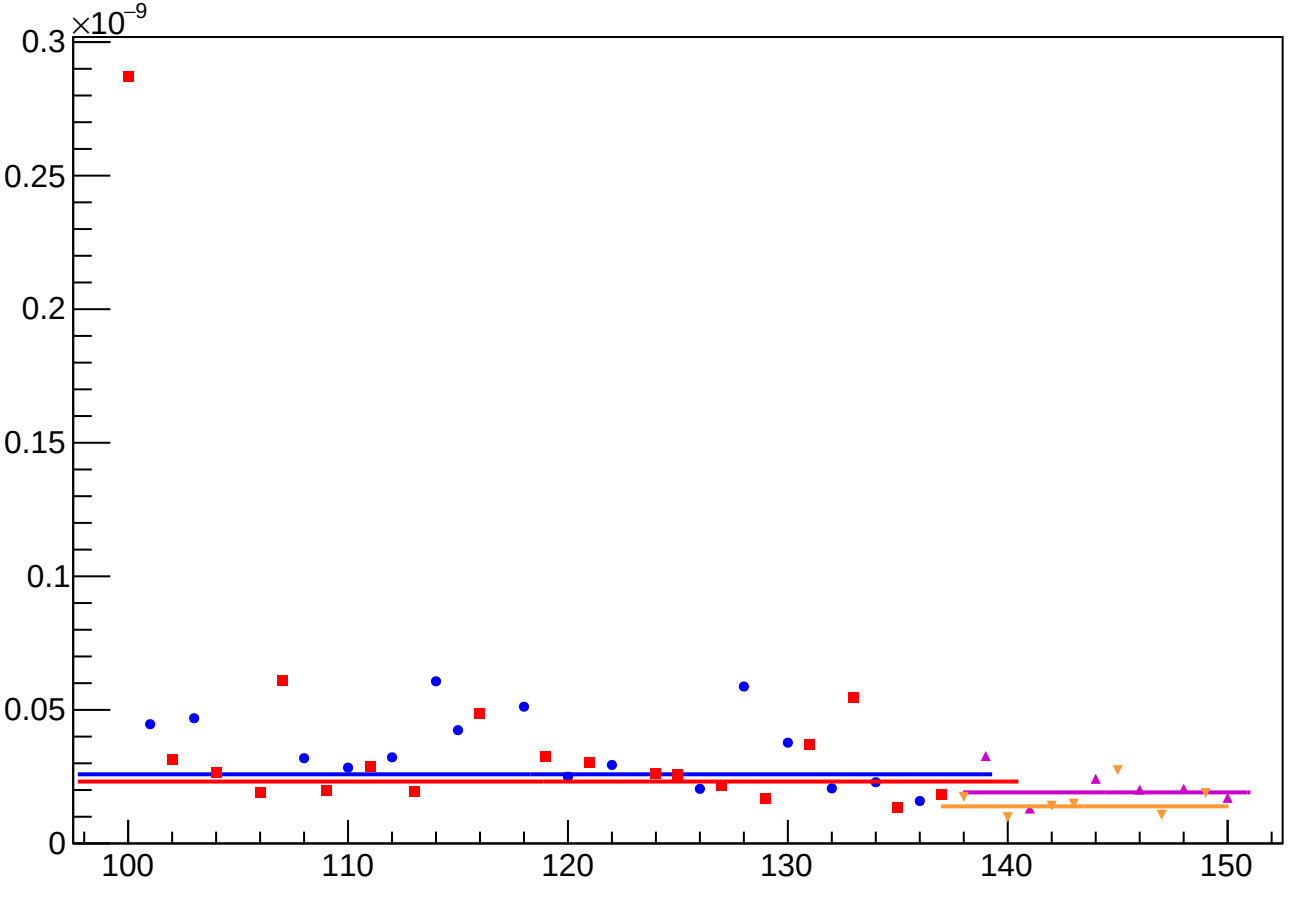
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:28.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 45.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 865479.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:419065.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 688853.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:362442.8/5

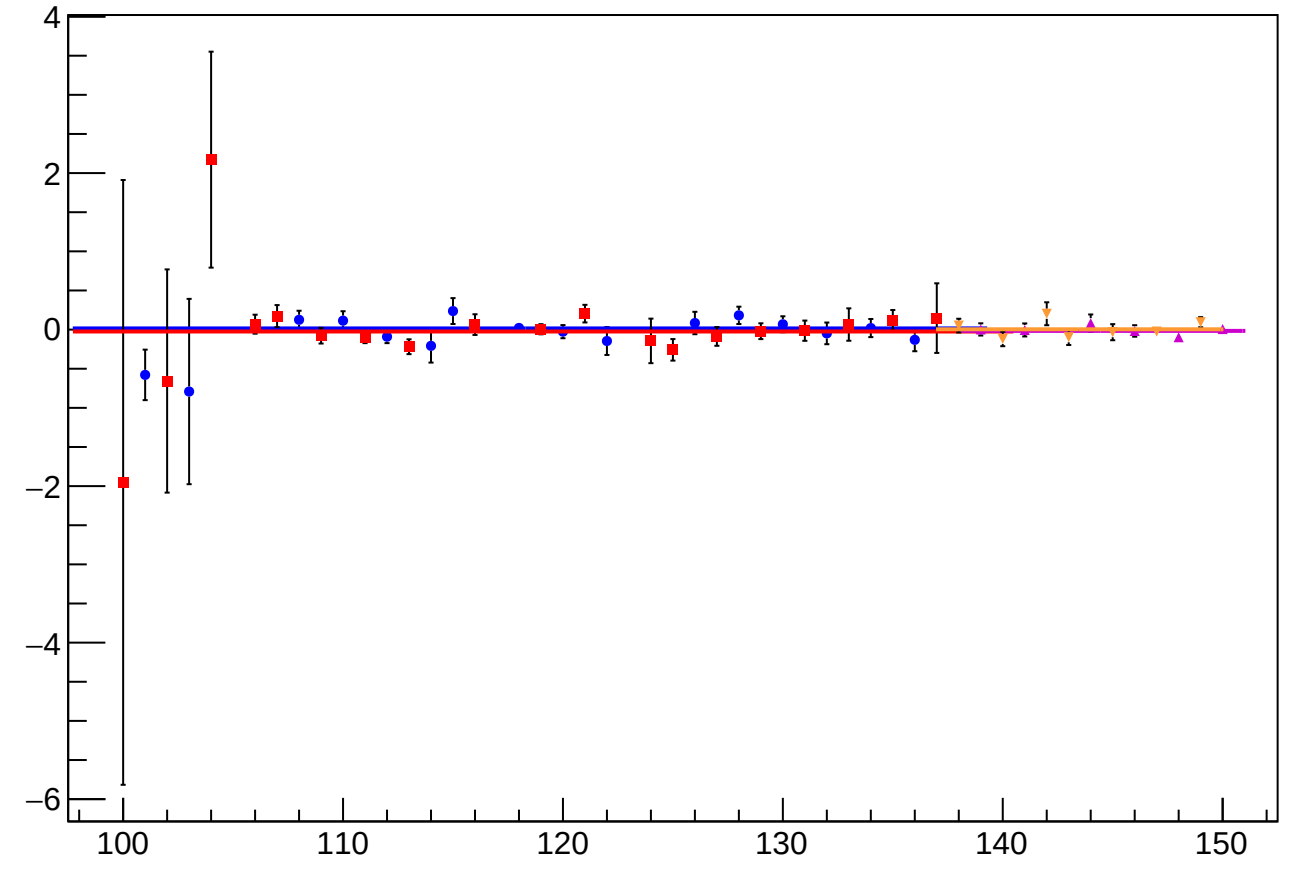
Left: 0.000+/-0.000 $\chi^2$/NDF: 986601.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 1581998.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:1432973.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:1600387.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 3307238.9/47




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.004+/-0.031 $\chi^2$/NDF:7.3/6

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.016+/-0.030 $\chi^2$/NDF:2.7/5

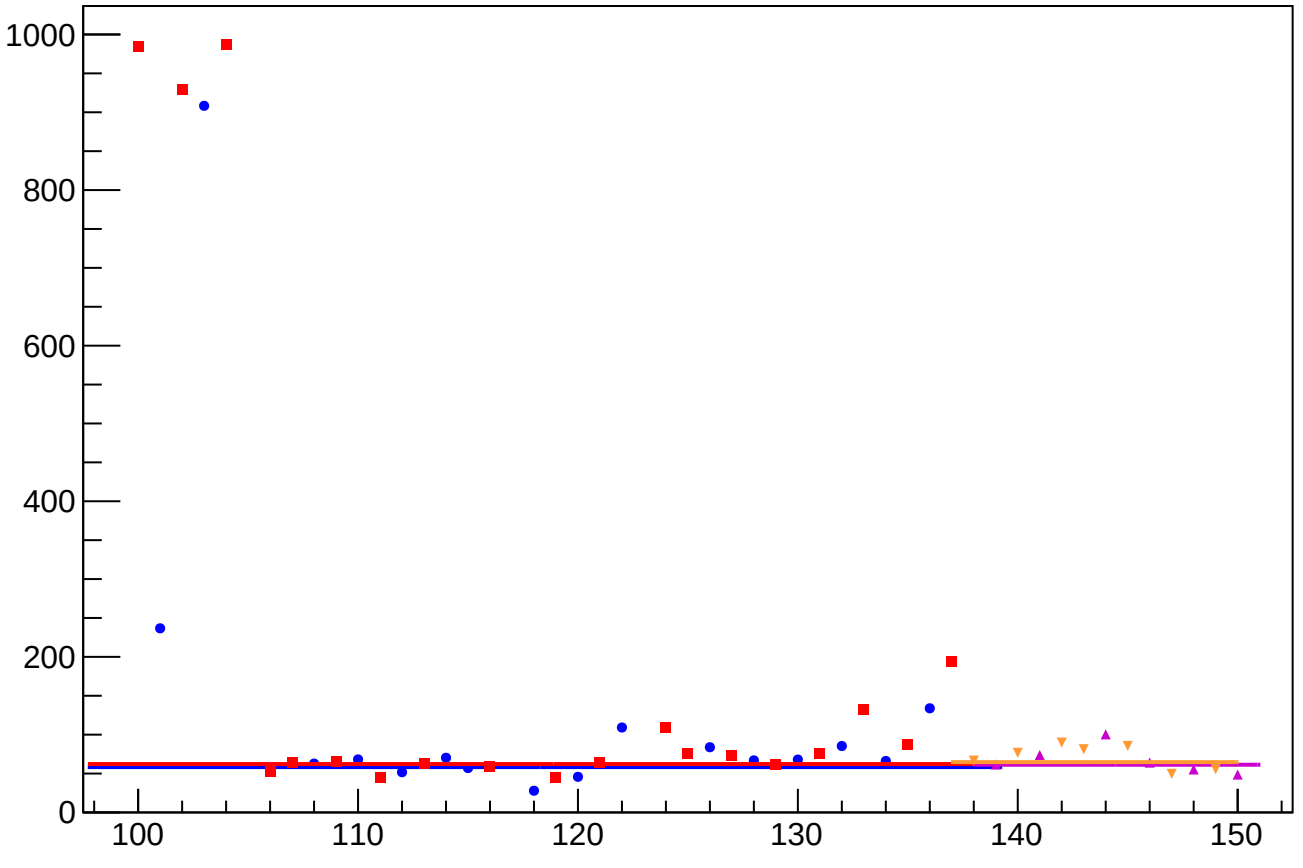
Left: -0.007+/-0.022 $\chi^2$/NDF: 10.2/12

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.000+/-0.020 $\chi^2$/NDF:18.3/21

Out: -0.012+/-0.021 $\chi^2$/NDF:28.6/25

All: -0.006+/-0.015 $\chi^2$/NDF: 47.0/47




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 64.692+/-0.022 $\chi^2$/NDF:401735.7/6

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 61.353+/-0.021 $\chi^2$/NDF:413551.0/5

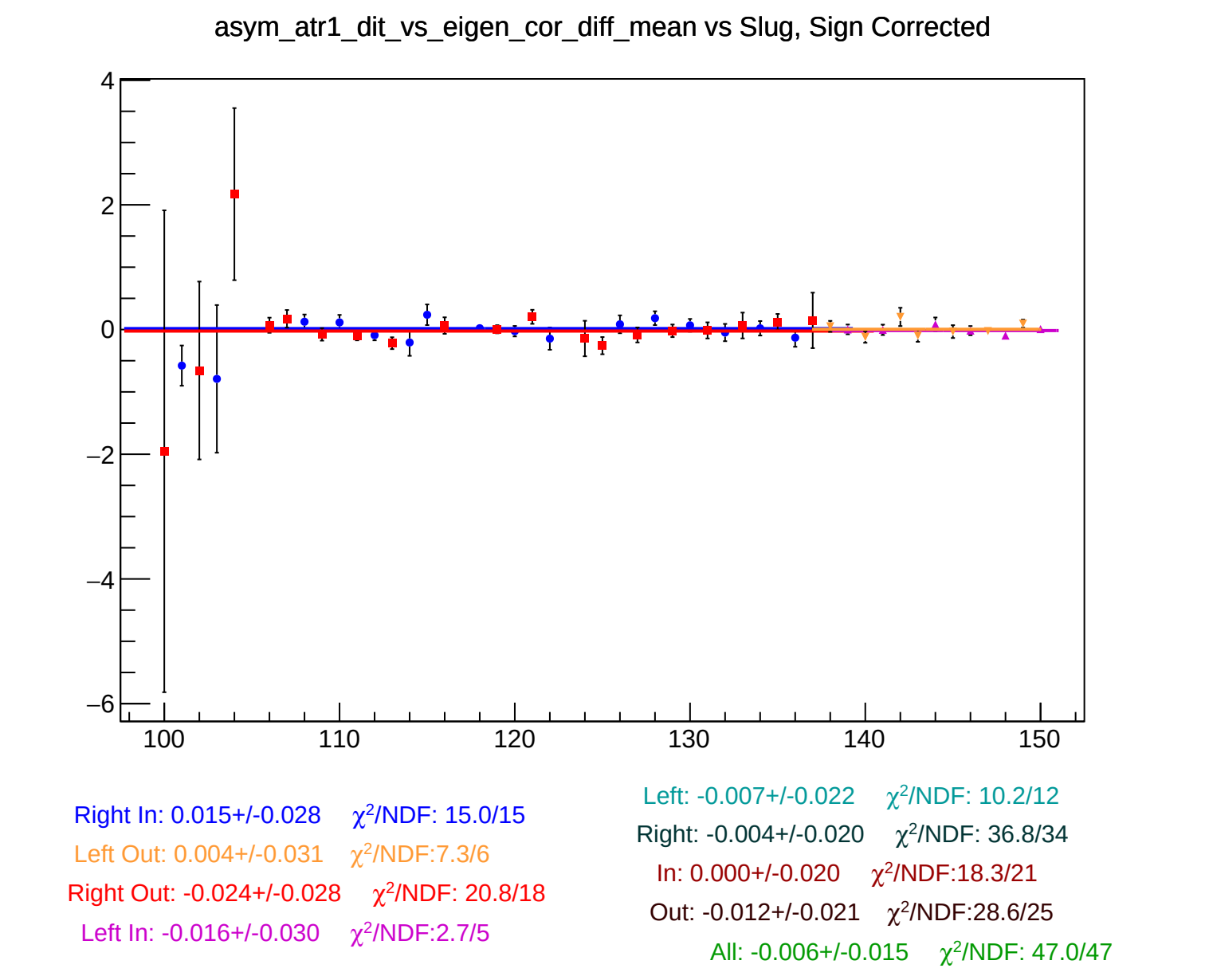
Left: 62.928+/-0.015 $\chi^2$/NDF: 827280.9/12

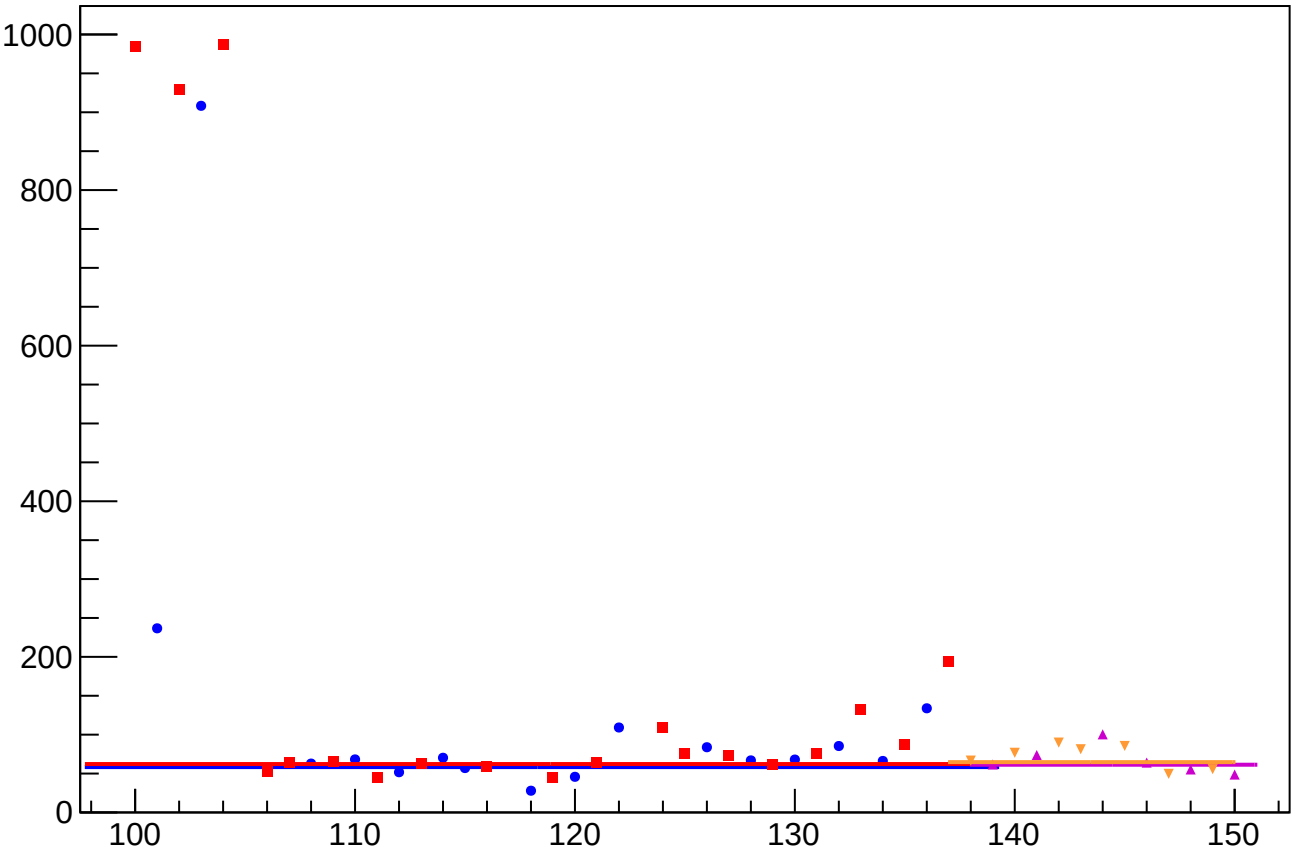
Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 59.738+/-0.014 $\chi^2$/NDF:3685144.7/21

Out: 63.327+/-0.015 $\chi^2$/NDF:3035592.8/25

All: 61.479+/-0.010 $\chi^2$/NDF: 6751117.1/47


asym_atr1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
4
2
0
−2
−4
−6
100
110
120
130
140
150
Right In: 0.015+/-0.028 χ²/NDF: 15.0/15
Left Out: 0.004+/-0.031 χ²/NDF:7.3/6
Right Out: -0.024+/-0.028 χ²/NDF: 20.8/18
Left In: -0.016+/-0.030 χ²/NDF:2.7/5
Left: -0.007+/-0.022 χ²/NDF: 10.2/12
Right: -0.004+/-0.020 χ²/NDF: 36.8/34
In: 0.000+/-0.020 χ²/NDF:18.3/21
Out: -0.012+/-0.021 χ²/NDF:28.6/25
All: -0.006+/-0.015 χ²/NDF: 47.0/47




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 64.692+/-0.022 $\chi^2$/NDF:401735.7/6

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 61.353+/-0.021 $\chi^2$/NDF:413551.0/5

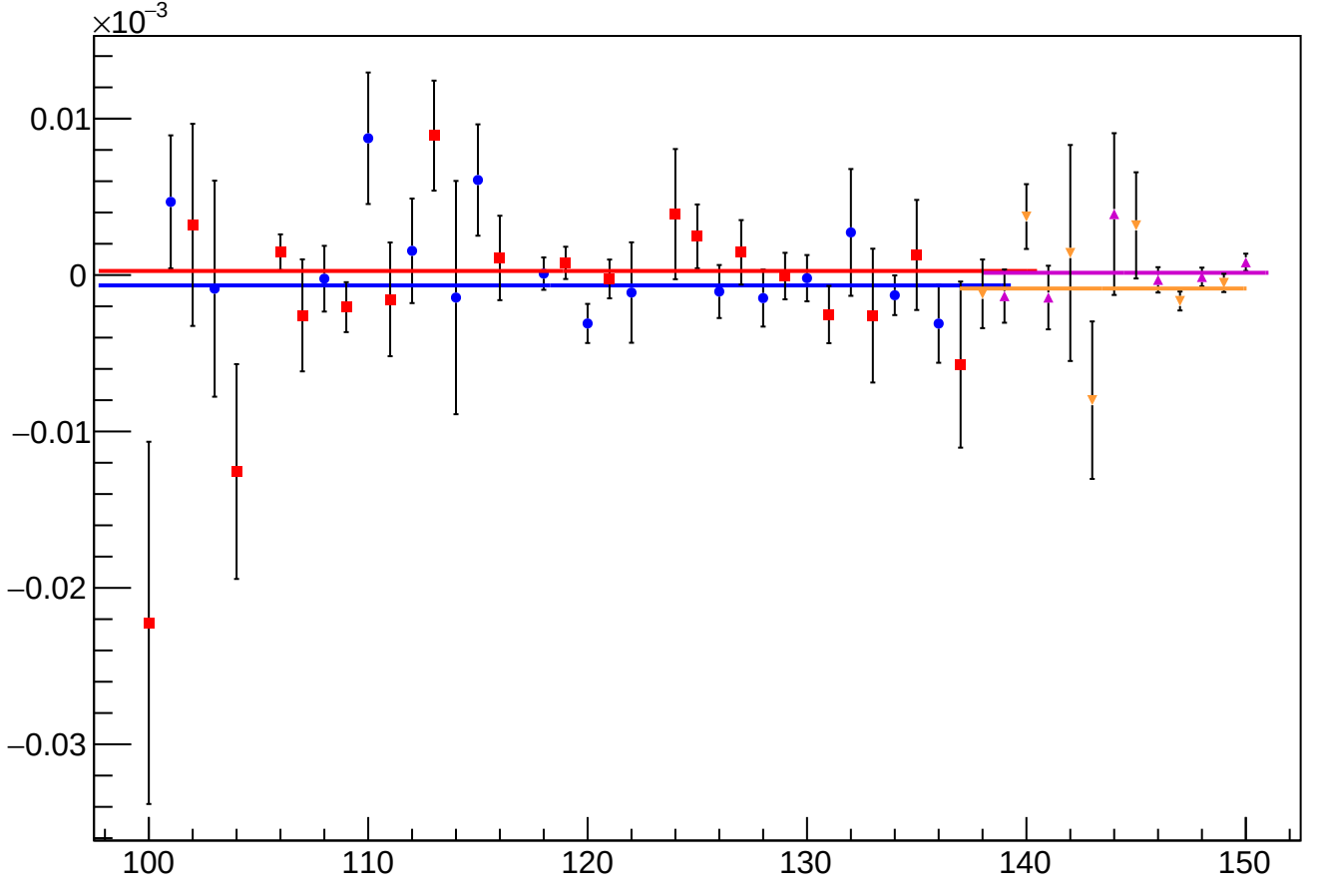
Left: 62.928+/-0.015 $\chi^2$/NDF: 827280.9/12

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 59.738+/-0.014 $\chi^2$/NDF:3685144.7/21

Out: 63.327+/-0.015 $\chi^2$/NDF:3035592.8/25

All: 61.479+/-0.010 $\chi^2$/NDF: 6751117.1/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.9/5

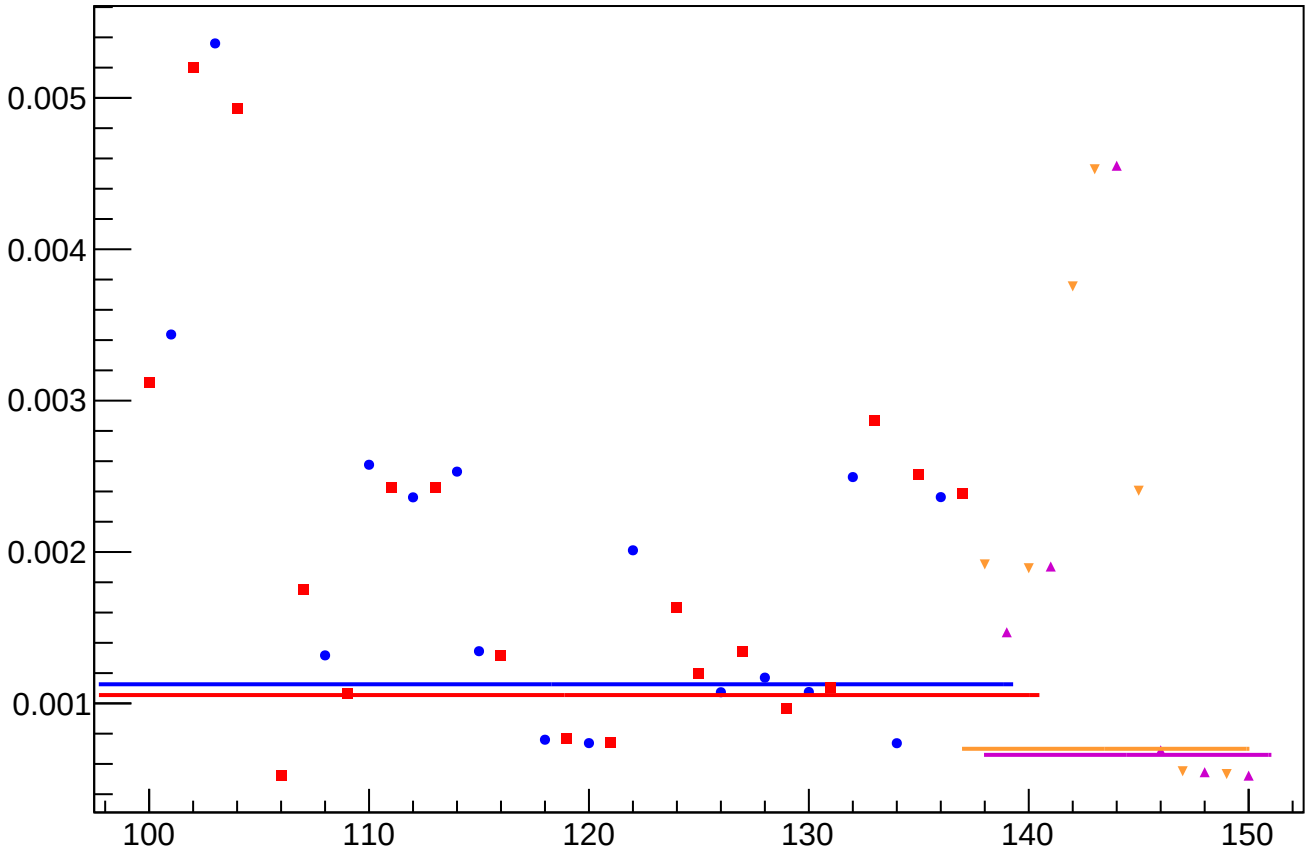
Left: -0.000+/-0.000 $\chi^2$/NDF: 18.1/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.9/21

Out: -0.000+/-0.000 $\chi^2$/NDF:38.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 61.8/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3453081.7/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:3615507.8/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3848500.2/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:2534764.1/5

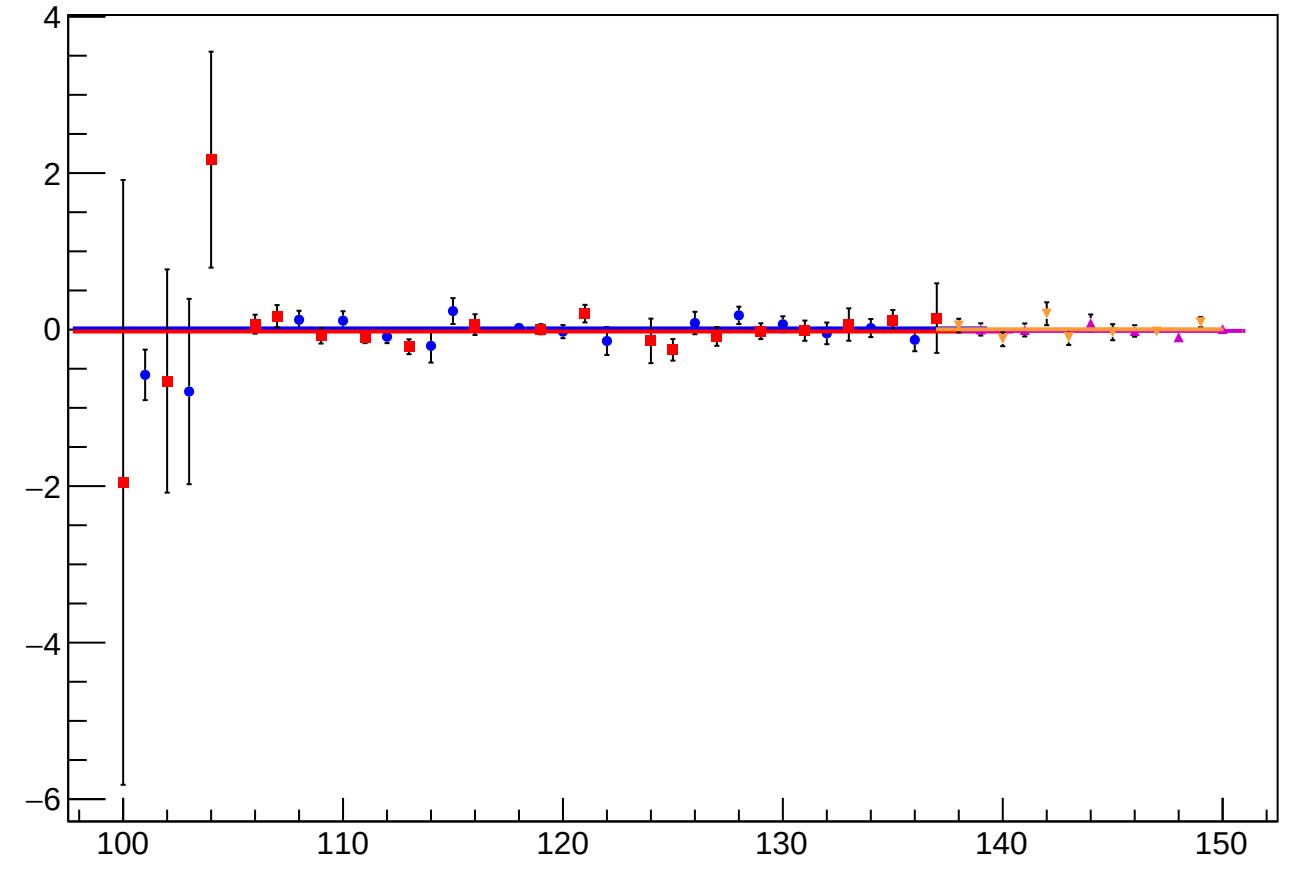
Left: 0.001+/-0.000 $\chi^2$/NDF: 6161688.0/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 7323820.3/34

In: 0.001+/-0.000 $\chi^2$/NDF:7190644.8/21

Out: 0.001+/-0.000 $\chi^2$/NDF:8133807.6/25

All: 0.001+/-0.000 $\chi^2$/NDF: 15338430.3/47




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.004+/-0.031 $\chi^2$/NDF:7.3/6

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.016+/-0.030 $\chi^2$/NDF:2.7/5

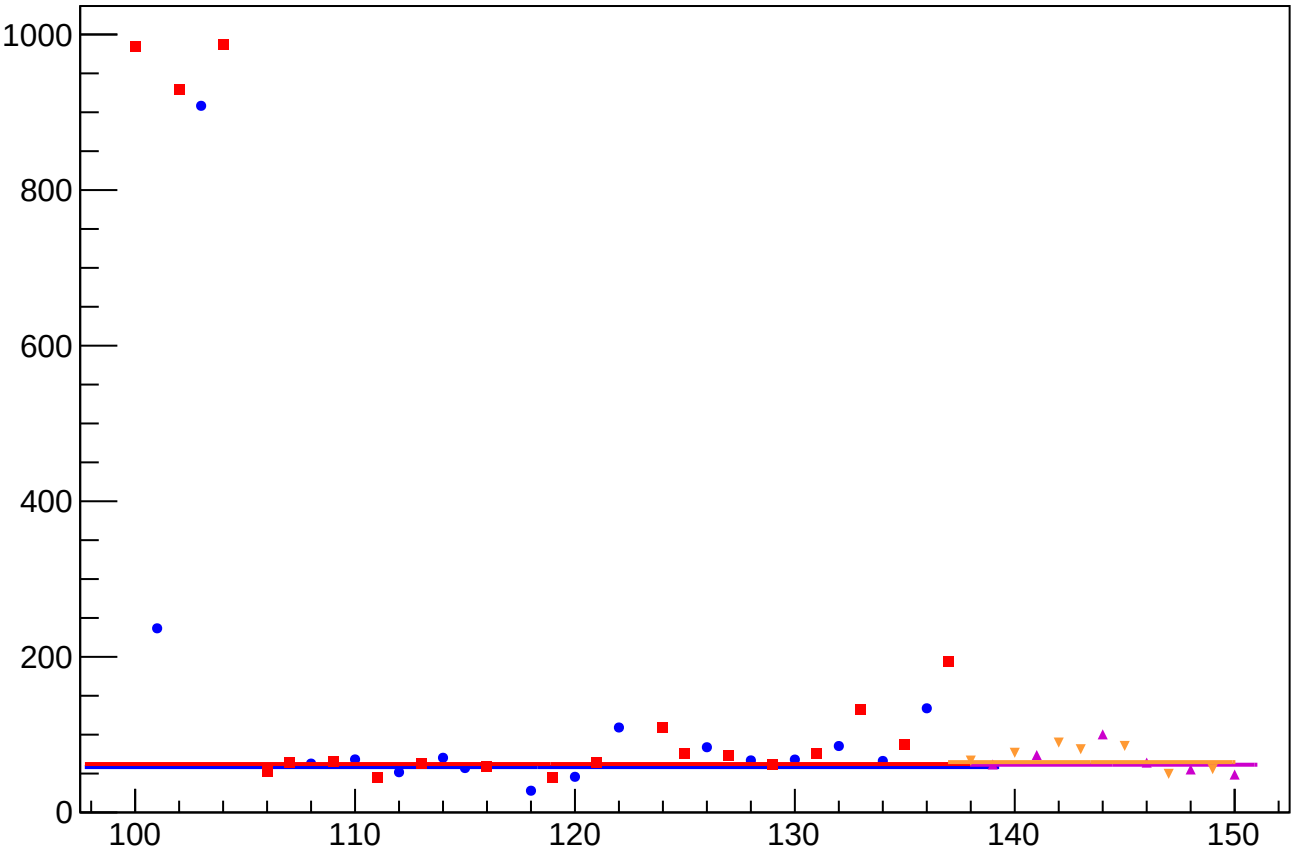
Left: -0.007+/-0.022 $\chi^2$/NDF: 10.2/12

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.000+/-0.020 $\chi^2$/NDF:18.3/21

Out: -0.012+/-0.021 $\chi^2$/NDF:28.6/25

All: -0.006+/-0.015 $\chi^2$/NDF: 47.0/47




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 64.692+/-0.022 $\chi^2$/NDF:401723.9/6

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 61.353+/-0.021 $\chi^2$/NDF:413565.0/5

Left: 62.928+/-0.015 $\chi^2$/NDF: 827280.2/12

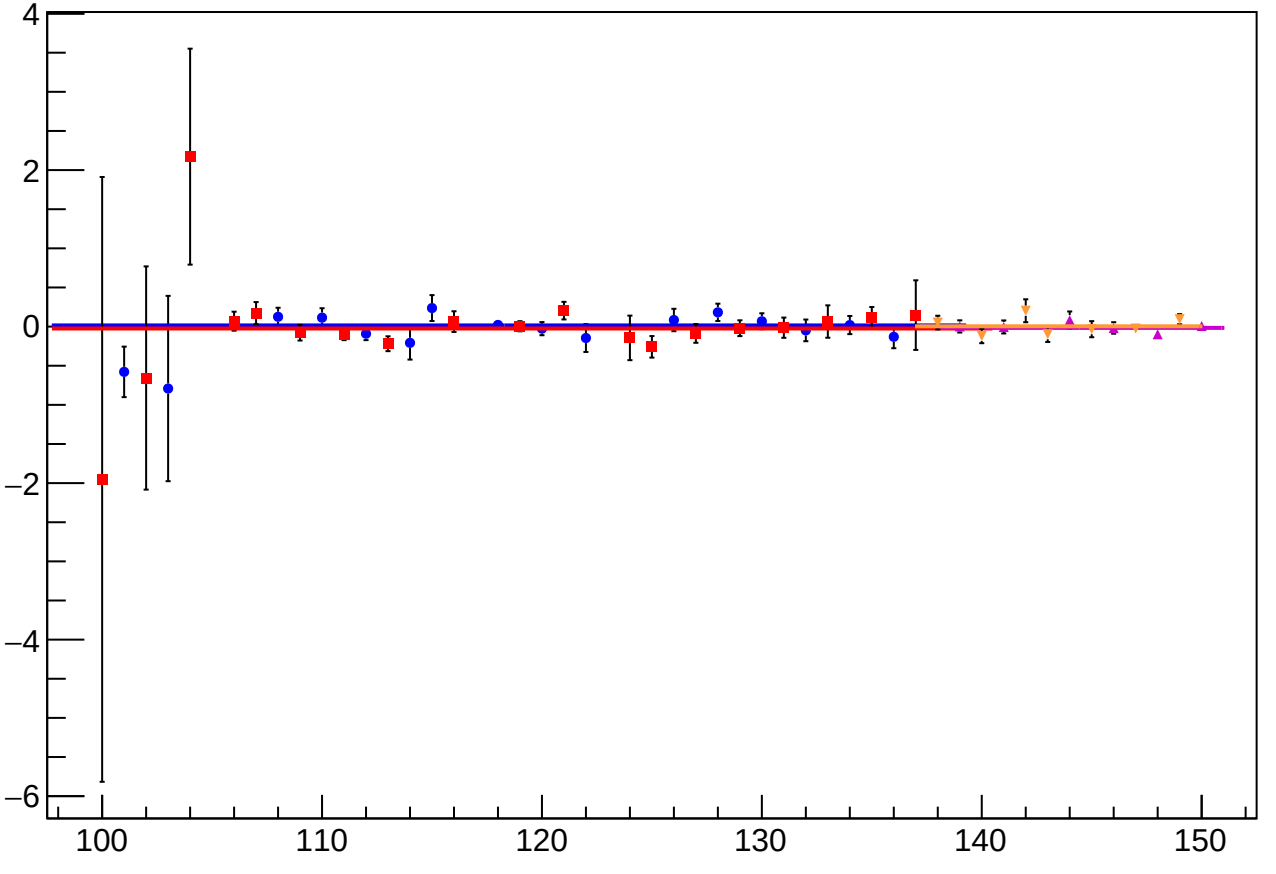
Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 59.738+/-0.014 $\chi^2$/NDF:3685245.9/21

Out: 63.327+/-0.015 $\chi^2$/NDF:3035572.8/25

All: 61.479+/-0.010 $\chi^2$/NDF: 6751201.5/47

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.004+/-0.031 $\chi^2$/NDF:7.3/6

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.016+/-0.030 $\chi^2$/NDF:2.7/5

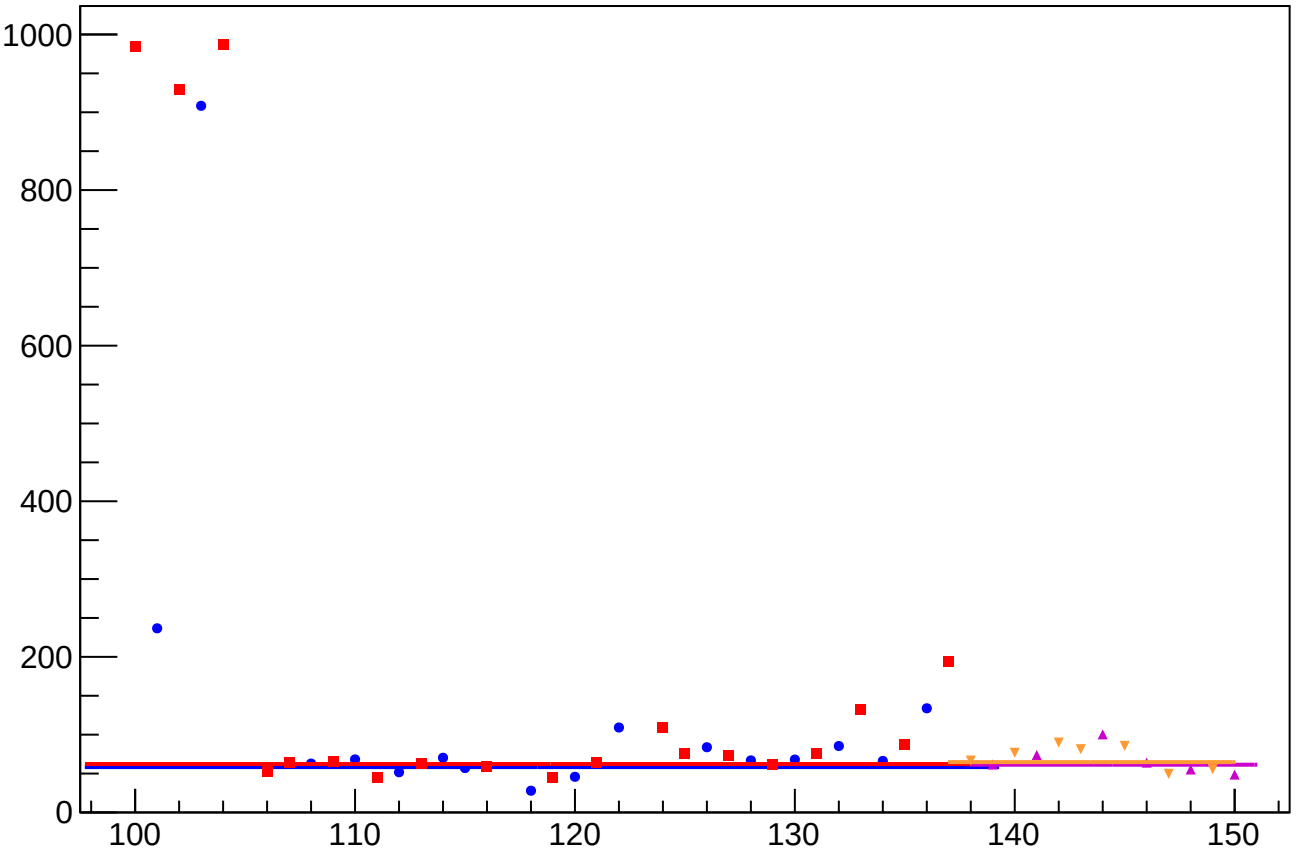
Left: -0.007+/-0.022 $\chi^2$/NDF: 10.2/12

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.000+/-0.020 $\chi^2$/NDF:18.3/21

Out: -0.012+/-0.021 $\chi^2$/NDF:28.6/25

All: -0.006+/-0.015 $\chi^2$/NDF: 47.0/47




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 64.692+/-0.022 $\chi^2$/NDF:401723.9/6

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 61.353+/-0.021 $\chi^2$/NDF:413565.0/5

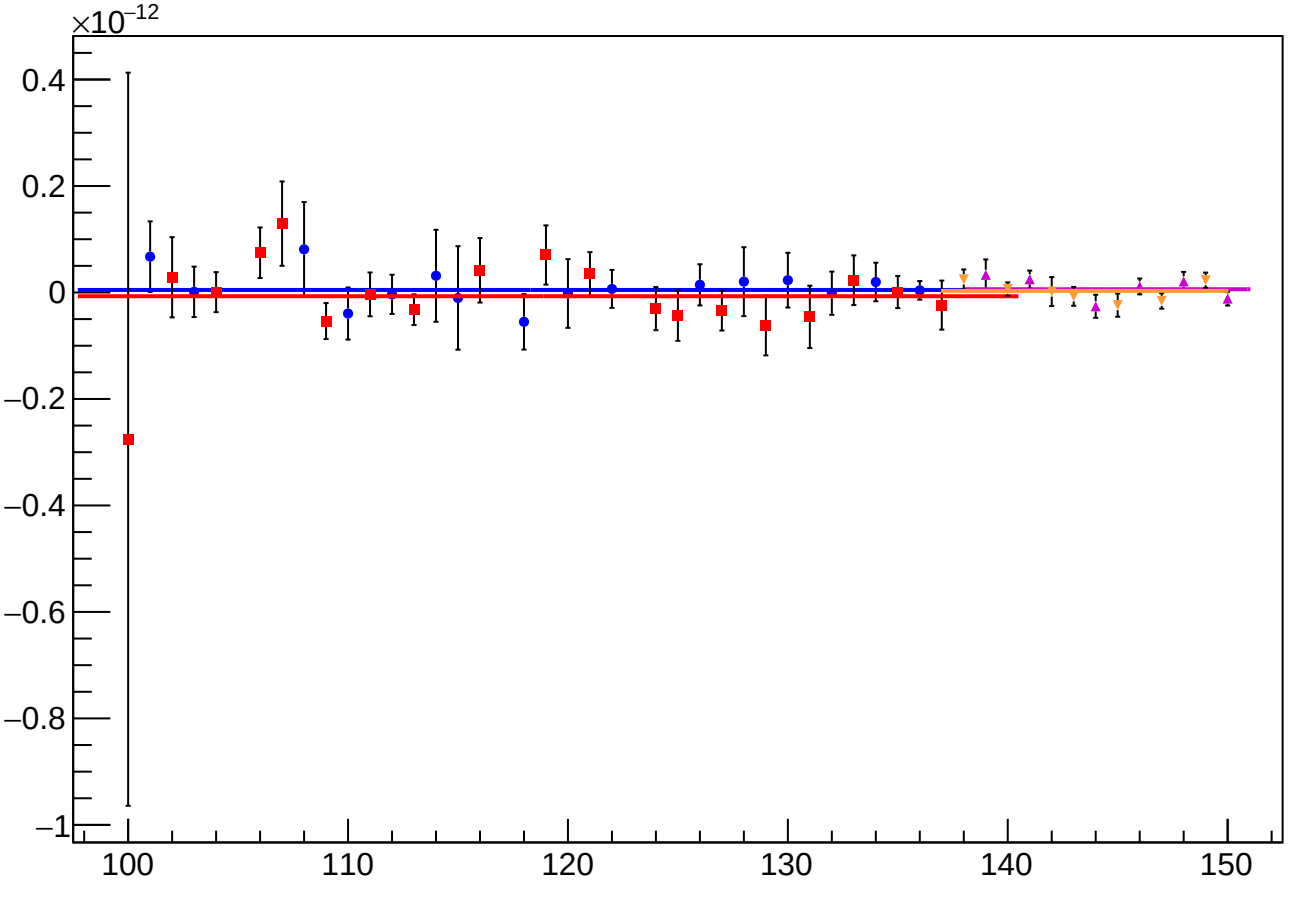
Left: 62.928+/-0.015 $\chi^2$/NDF: 827280.2/12

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 59.738+/-0.014 $\chi^2$/NDF:3685245.9/21

Out: 63.327+/-0.015 $\chi^2$/NDF:3035572.8/25

All: 61.479+/-0.010 $\chi^2$/NDF: 6751201.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.0/5

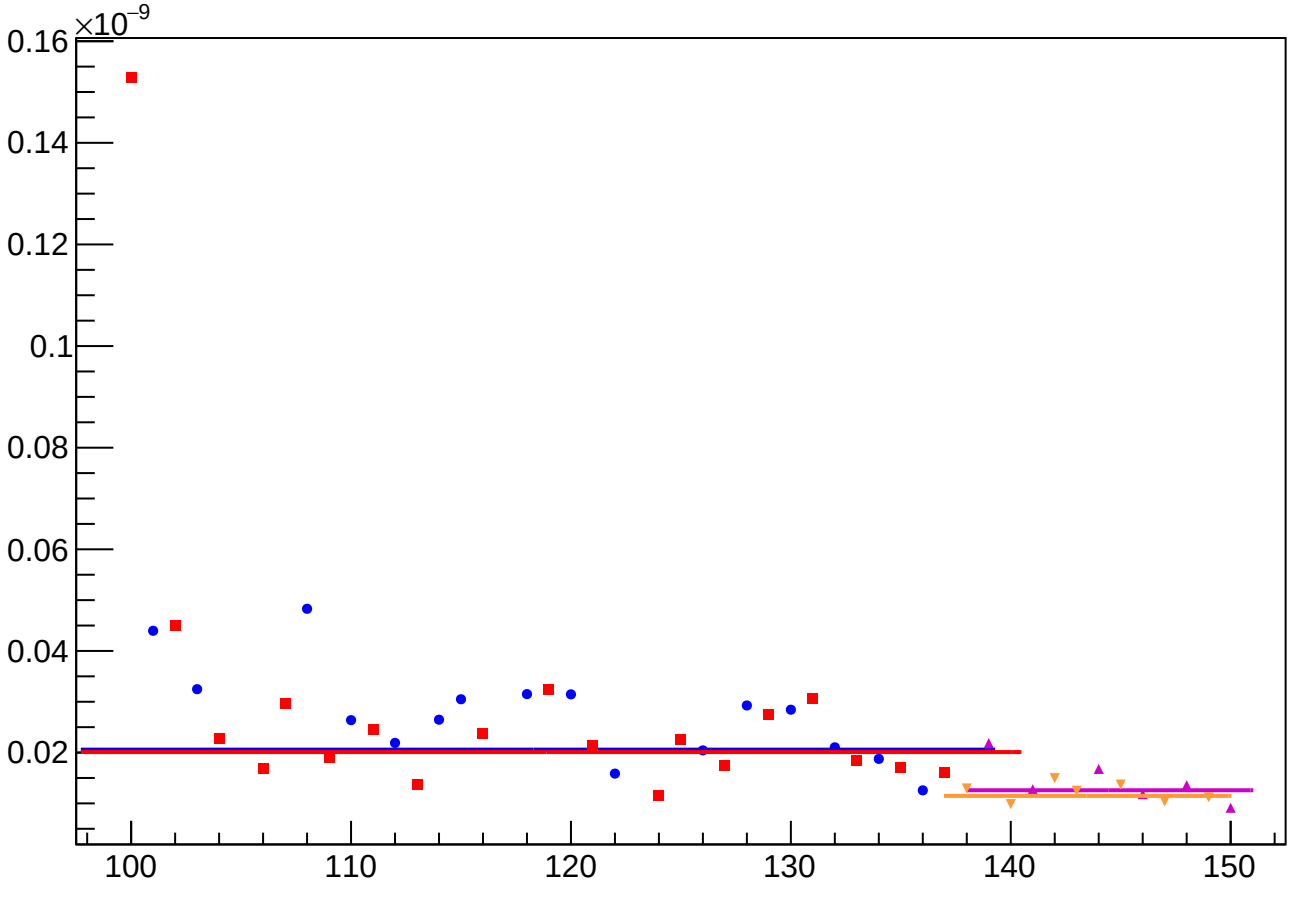
Left: 0.000+/-0.000 $\chi^2$/NDF: 14.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 21.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:11.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 35.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1319631.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:118297.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 812191.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:434241.8/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 580506.3/12

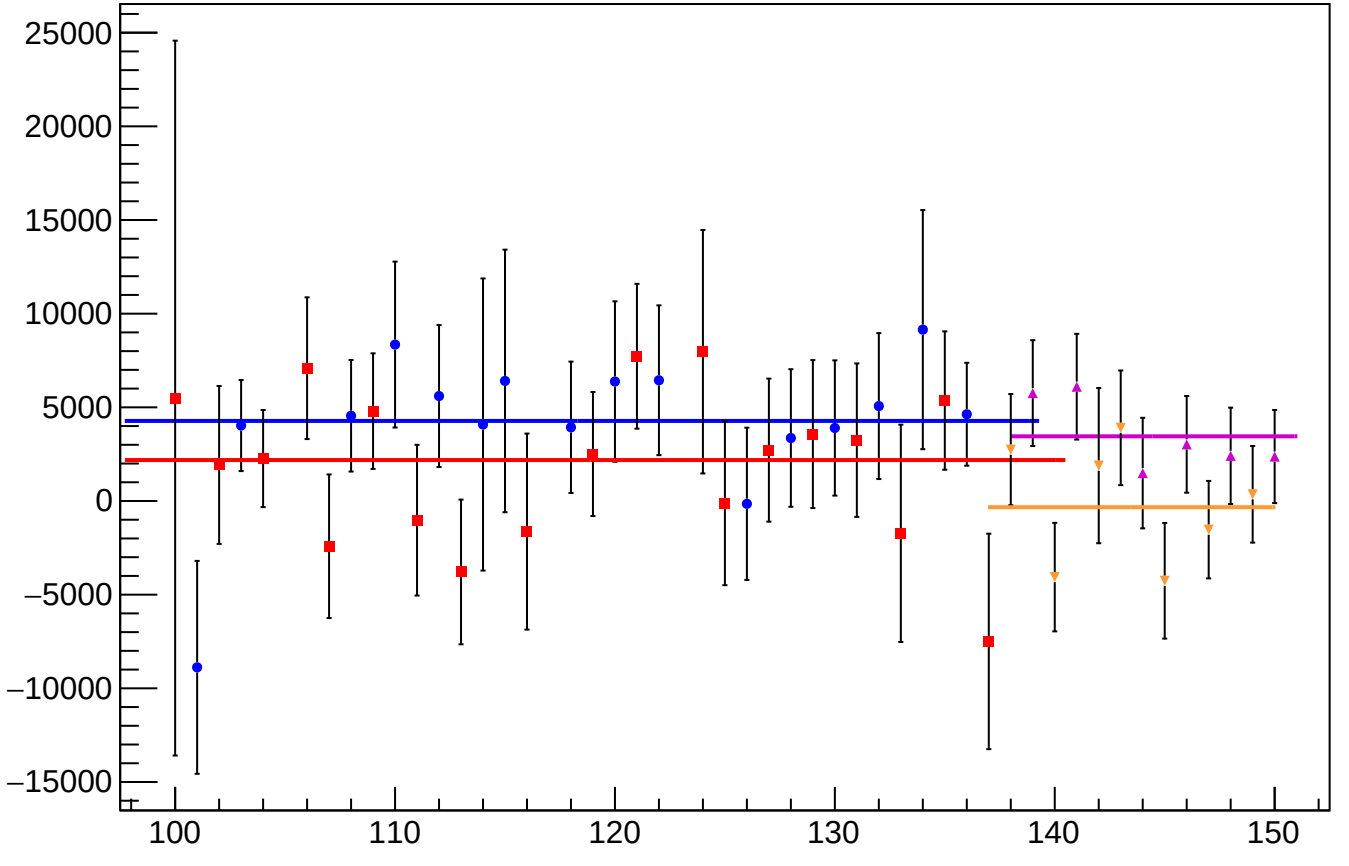
Right: 0.000+/-0.000 $\chi^2$/NDF: 2134051.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2586787.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:1980273.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4616906.9/47

# reg_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4274.393+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: -331.522+/-1117.537 $\chi^2$/NDF:6.8/6

Right Out: 2186.264+/-922.104 $\chi^2$/NDF: 14.8/18

Left In: 3453.062+/-1098.449 $\chi^2$/NDF:2.4/5

Left: 1593.367+/-783.382 $\chi^2$/NDF: 15.0/12

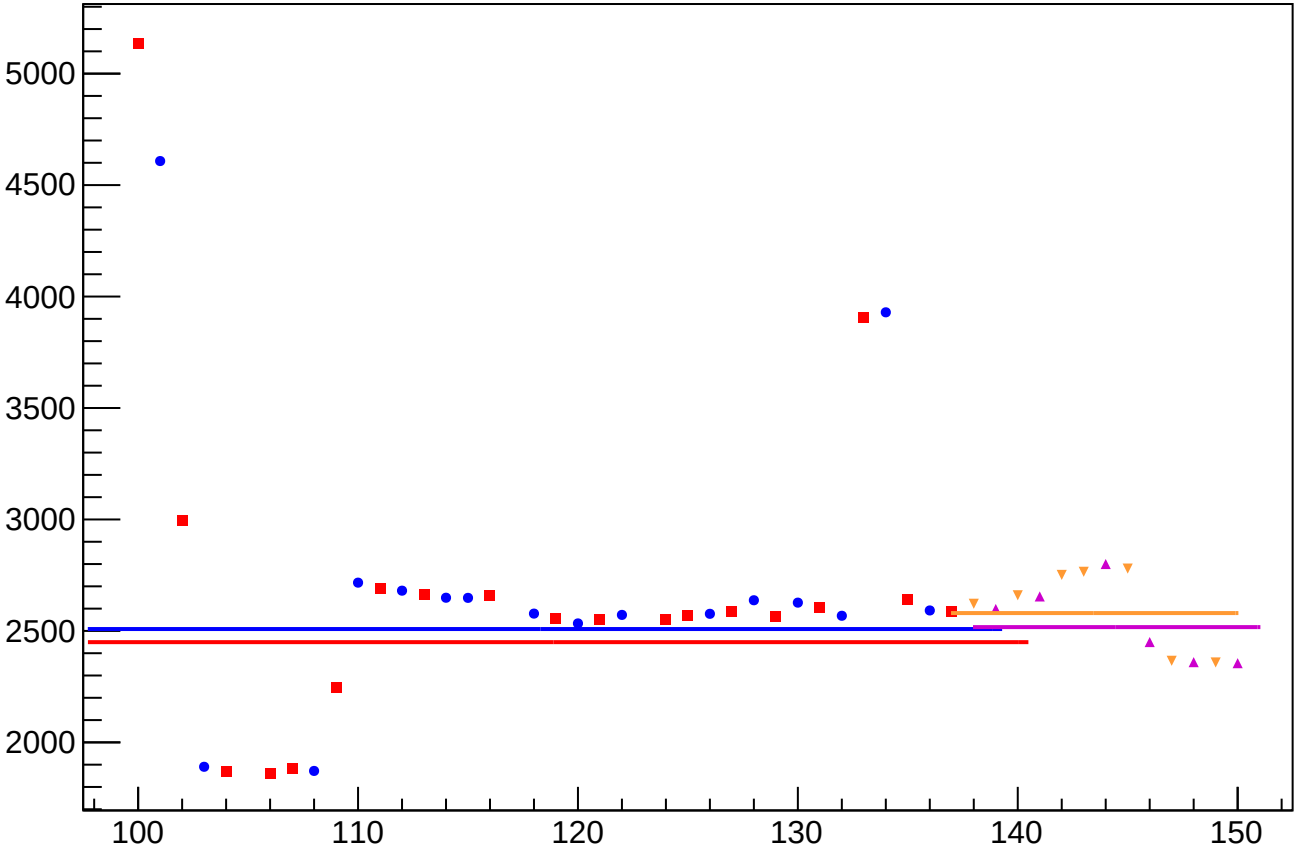
Right: 3197.075+/-662.328 $\chi^2$/NDF: 26.2/34

In: 3922.110+/-719.393 $\chi^2$/NDF:11.6/21

Out: 1166.424+/-711.244 $\chi^2$/NDF:24.7/25

All: 2528.570+/-505.782 $\chi^2$/NDF: 43.7/47

# reg_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.466+/-0.673 $\chi^2$/NDF: 611589.6/15

Left Out: 2580.090+/-0.790 $\chi^2$/NDF:49304.8/6

Right Out: 2449.623+/-0.652 $\chi^2$/NDF: 436901.0/18

Left In: 2517.092+/-0.777 $\chi^2$/NDF:42095.6/5

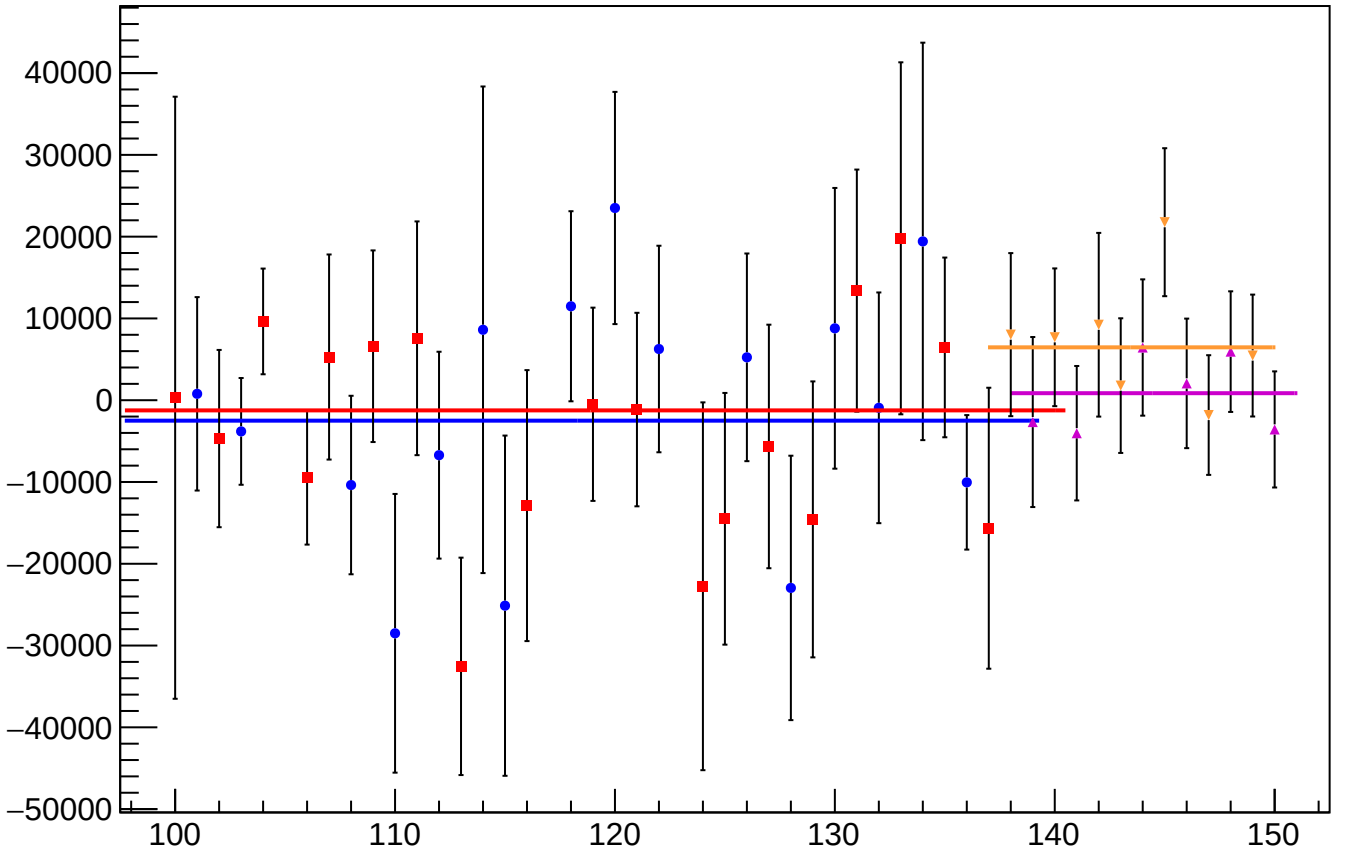
Left: 2548.048+/-0.554 $\chi^2$/NDF: 94633.1/12

Right: 2478.107+/-0.468 $\chi^2$/NDF: 1052433.3/34

In: 2512.166+/-0.509 $\chi^2$/NDF:653755.7/21

Out: 2502.469+/-0.503 $\chi^2$/NDF:502423.6/25

All: 2507.262+/-0.358 $\chi^2$/NDF: 1156363.0/47




Right In: -2500.602+/-3075.580 $\chi^2$/NDF: 13.8/15

Left Out: 6465.634+/-3231.935 $\chi^2$/NDF:4.6/6

Right Out: -1244.352+/-2852.739 $\chi^2$/NDF: 16.6/18

Left In: 859.111+/-3285.965 $\chi^2$/NDF:1.8/5

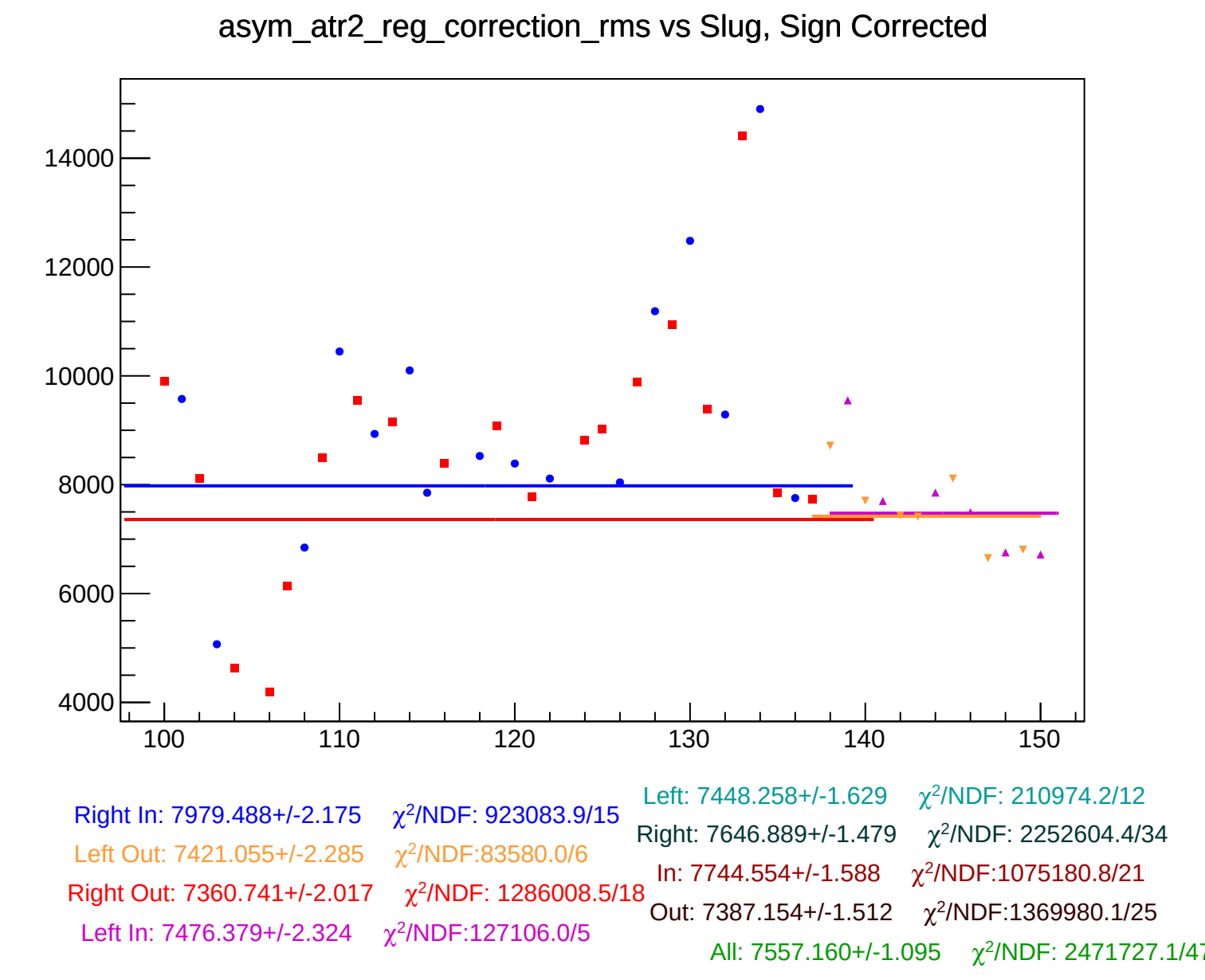
Left: 3708.844+/-2304.188 $\chi^2$/NDF: 7.9/12

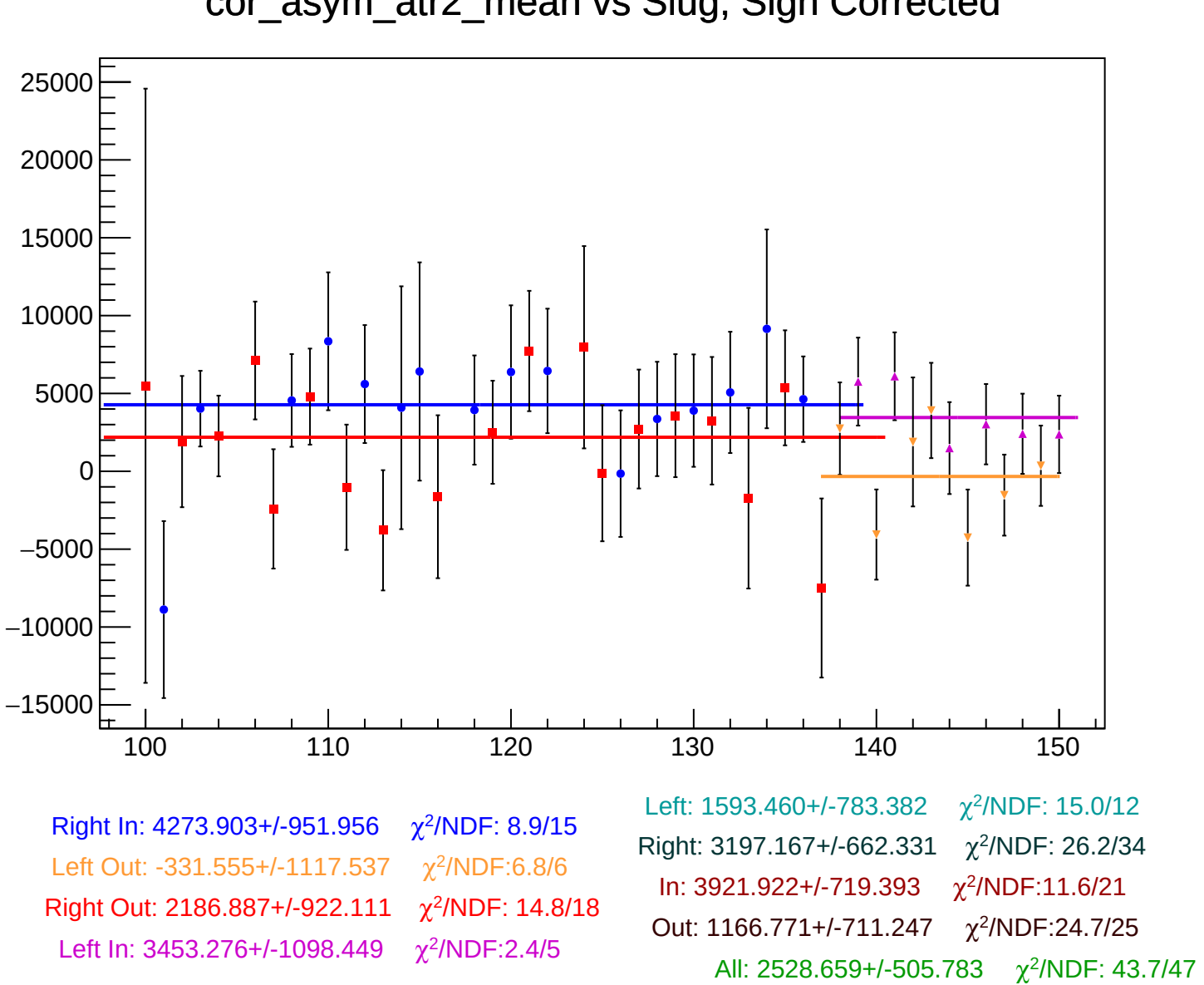
Right: -1825.322+/-2091.539 $\chi^2$/NDF: 30.4/34

In: -931.735+/-2245.458 $\chi^2$/NDF:16.1/21

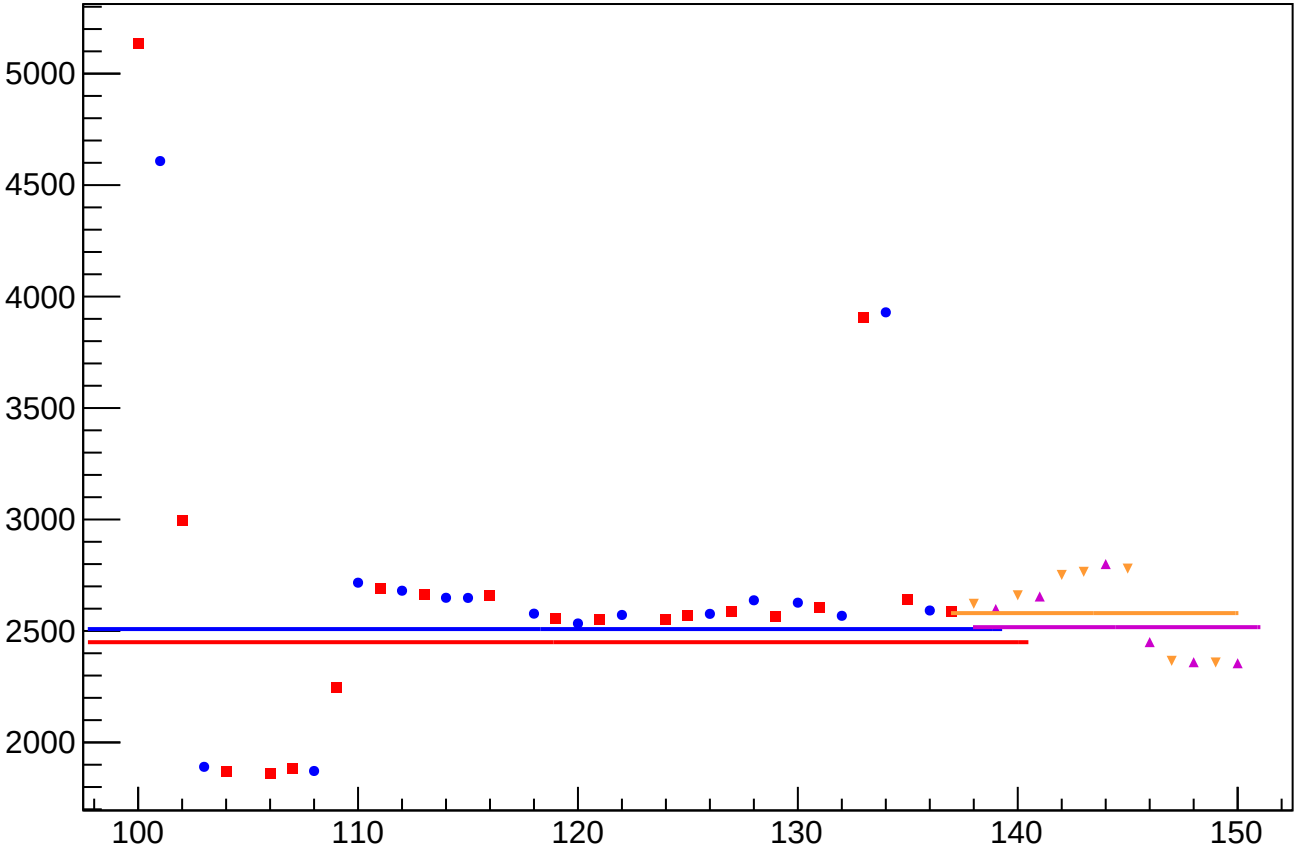
Out: 2132.015+/-2138.753 $\chi^2$/NDF:24.4/25

All: 674.663+/-1548.676 $\chi^2$/NDF: 41.5/47


asym_atr2_reg_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
Right In: 7979.488+/-2.175 χ²/NDF: 923083.9/15
Left Out: 7421.055+/-2.285 χ²/NDF:83580.0/6
Right Out: 7360.741+/-2.017 χ²/NDF: 1286008.5/18
Left In: 7476.379+/-2.324 χ²/NDF:127106.0/5
Left: 7448.258+/-1.629 χ²/NDF: 210974.2/12
Right: 7646.889+/-1.479 χ²/NDF: 2252604.4/34
In: 7744.554+/-1.588 χ²/NDF:1075180.8/21
Out: 7387.154+/-1.512 χ²/NDF:1369980.1/25
All: 7557.160+/-1.095 χ²/NDF: 2471727.1/47


cor_asym_atr2_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 4273.903+/-951.956 χ²/NDF: 8.9/15
Left Out: -331.555+/-1117.537 χ²/NDF:6.8/6
Right Out: 2186.887+/-922.111 χ²/NDF: 14.8/18
Left In: 3453.276+/-1098.449 χ²/NDF:2.4/5
Left: 1593.460+/-783.382 χ²/NDF: 15.0/12
Right: 3197.167+/-662.331 χ²/NDF: 26.2/34
In: 3921.922+/-719.393 χ²/NDF:11.6/21
Out: 1166.771+/-711.247 χ²/NDF:24.7/25
All: 2528.659+/-505.783 χ²/NDF: 43.7/47

# cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2580.090+/-0.790 $\chi^2$/NDF:49304.8/6

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2517.092+/-0.777 $\chi^2$/NDF:42095.6/5

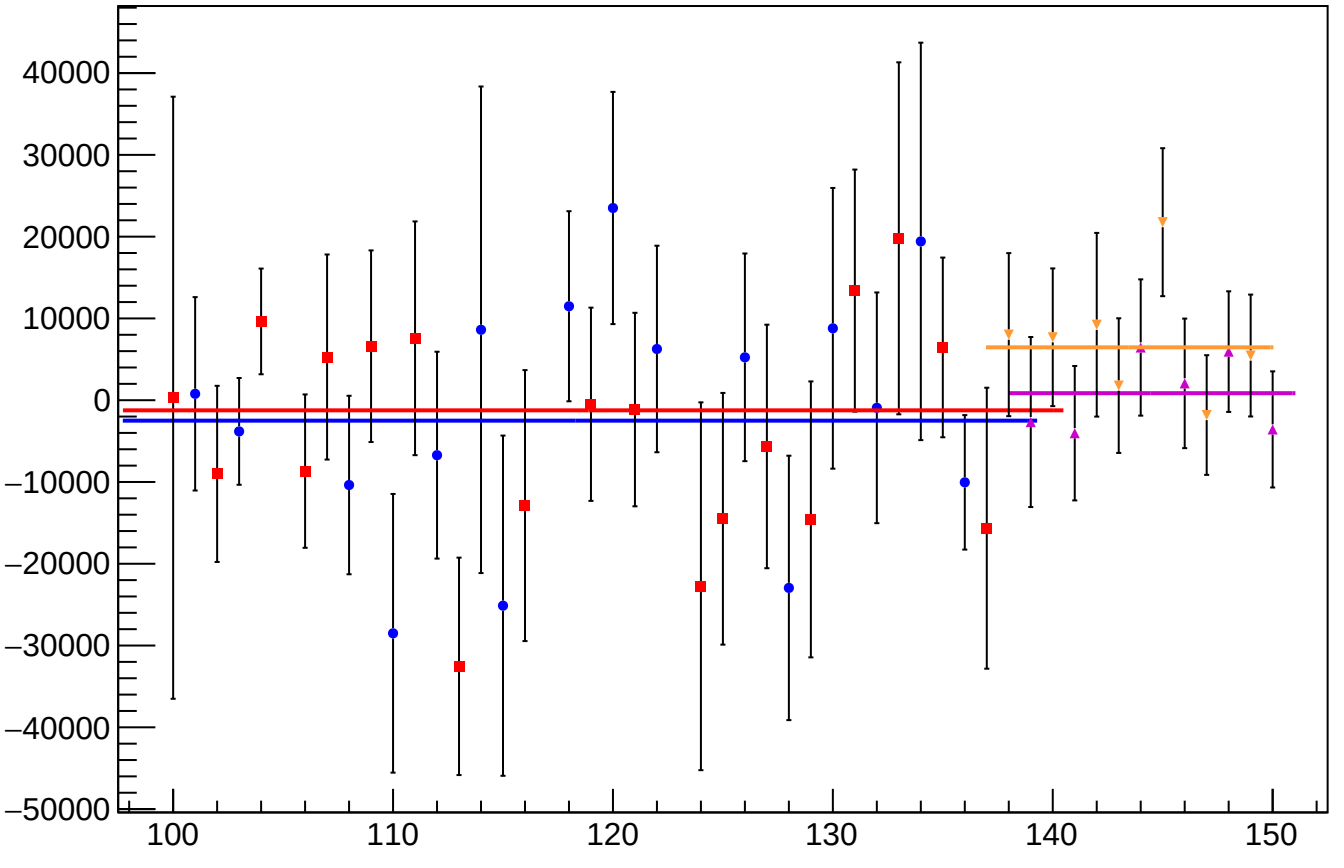
Left: 2548.048+/-0.554 $\chi^2$/NDF: 94633.1/12

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2512.167+/-0.509 $\chi^2$/NDF:653753.5/21

Out: 2502.484+/-0.503 $\chi^2$/NDF:502363.0/25

All: 2507.270+/-0.358 $\chi^2$/NDF: 1156299.7/47




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 6465.614+/-3231.924 $\chi^2$/NDF:4.6/6

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 859.316+/-3285.964 $\chi^2$/NDF:1.8/5

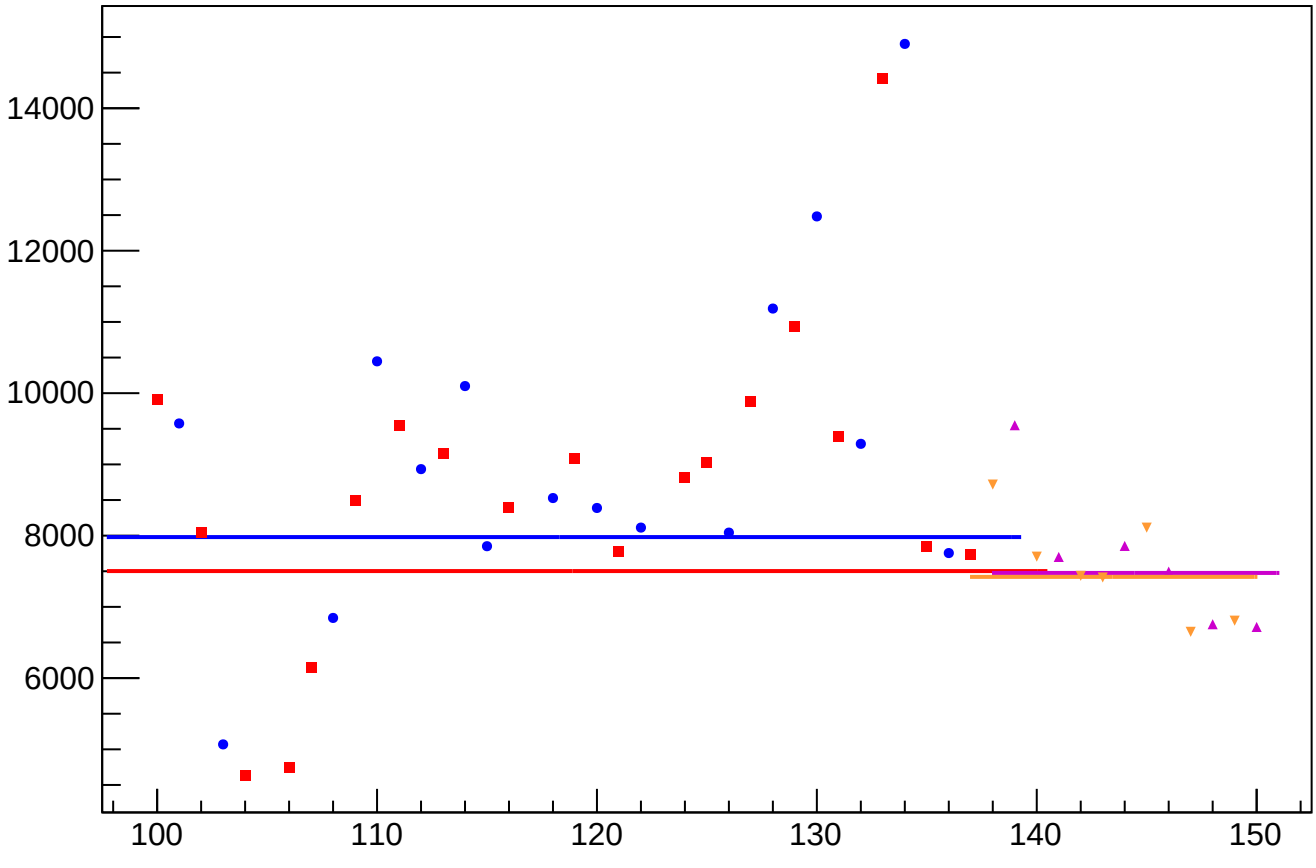
Left: 3708.943+/-2304.184 $\chi^2$/NDF: 7.9/12

Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

In: -931.472+/-2245.492 $\chi^2$/NDF:16.1/21

Out: 2188.385+/-2155.752 $\chi^2$/NDF:24.4/25

All: 692.043+/-1555.104 $\chi^2$/NDF: 41.5/47




Right In: 7979.812+/-2.175 $\chi^2$/NDF: 922785.4/15

Left Out: 7421.031+/-2.285 $\chi^2$/NDF:83580.2/6

Right Out: 7502.685+/-2.046 $\chi^2$/NDF: 1135523.5/18

Left In: 7476.376+/-2.324 $\chi^2$/NDF:127105.9/5

Left: 7448.245+/-1.629 $\chi^2$/NDF: 210974.5/12

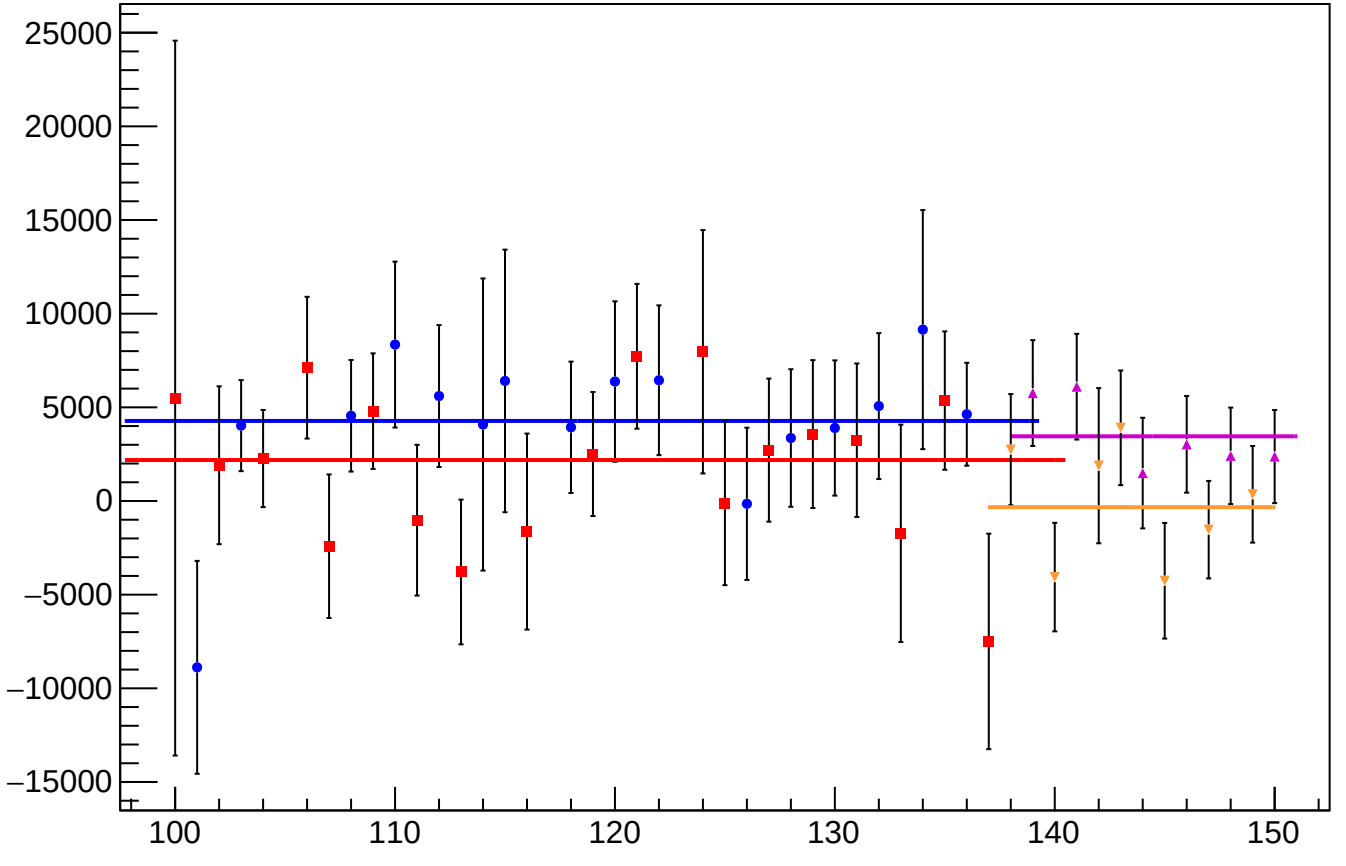
Right: 7726.698+/-1.490 $\chi^2$/NDF: 2083841.8/34

In: 7744.718+/-1.588 $\chi^2$/NDF:1074914.2/21

Out: 7466.356+/-1.524 $\chi^2$/NDF:1219812.3/25

All: 7599.863+/-1.100 $\chi^2$/NDF: 2310720.2/47

# eigen_cor_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4273.903+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: -331.555+/-1117.537 $\chi^2$/NDF:6.8/6

Right Out: 2186.887+/-922.111 $\chi^2$/NDF: 14.8/18

Left In: 3453.276+/-1098.449 $\chi^2$/NDF:2.4/5

Left: 1593.460+/-783.382 $\chi^2$/NDF: 15.0/12

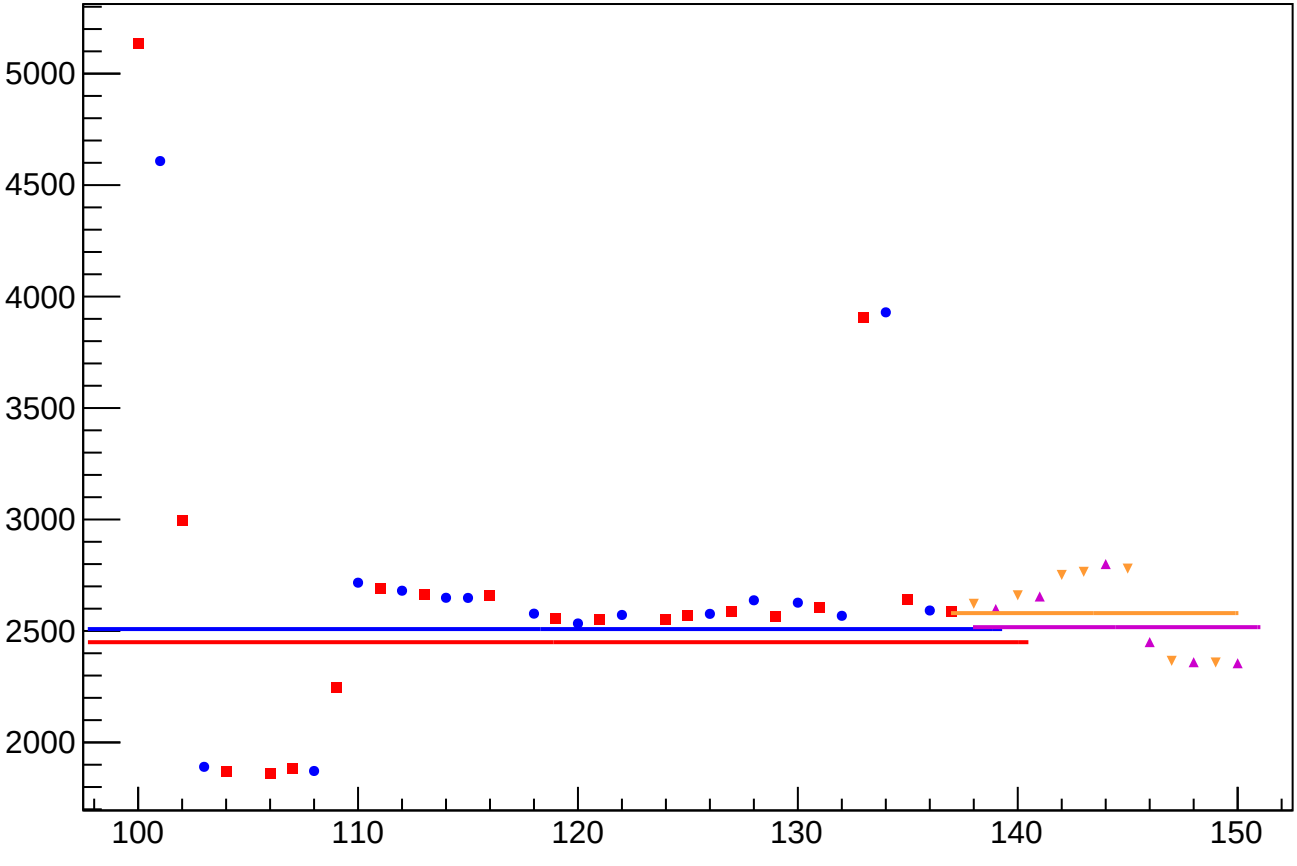
Right: 3197.167+/-662.331 $\chi^2$/NDF: 26.2/34

In: 3921.922+/-719.393 $\chi^2$/NDF:11.6/21

Out: 1166.771+/-711.247 $\chi^2$/NDF:24.7/25

All: 2528.659+/-505.783 $\chi^2$/NDF: 43.7/47

# eigen_cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2580.090+/-0.790 $\chi^2$/NDF:49304.8/6

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2517.092+/-0.777 $\chi^2$/NDF:42095.6/5

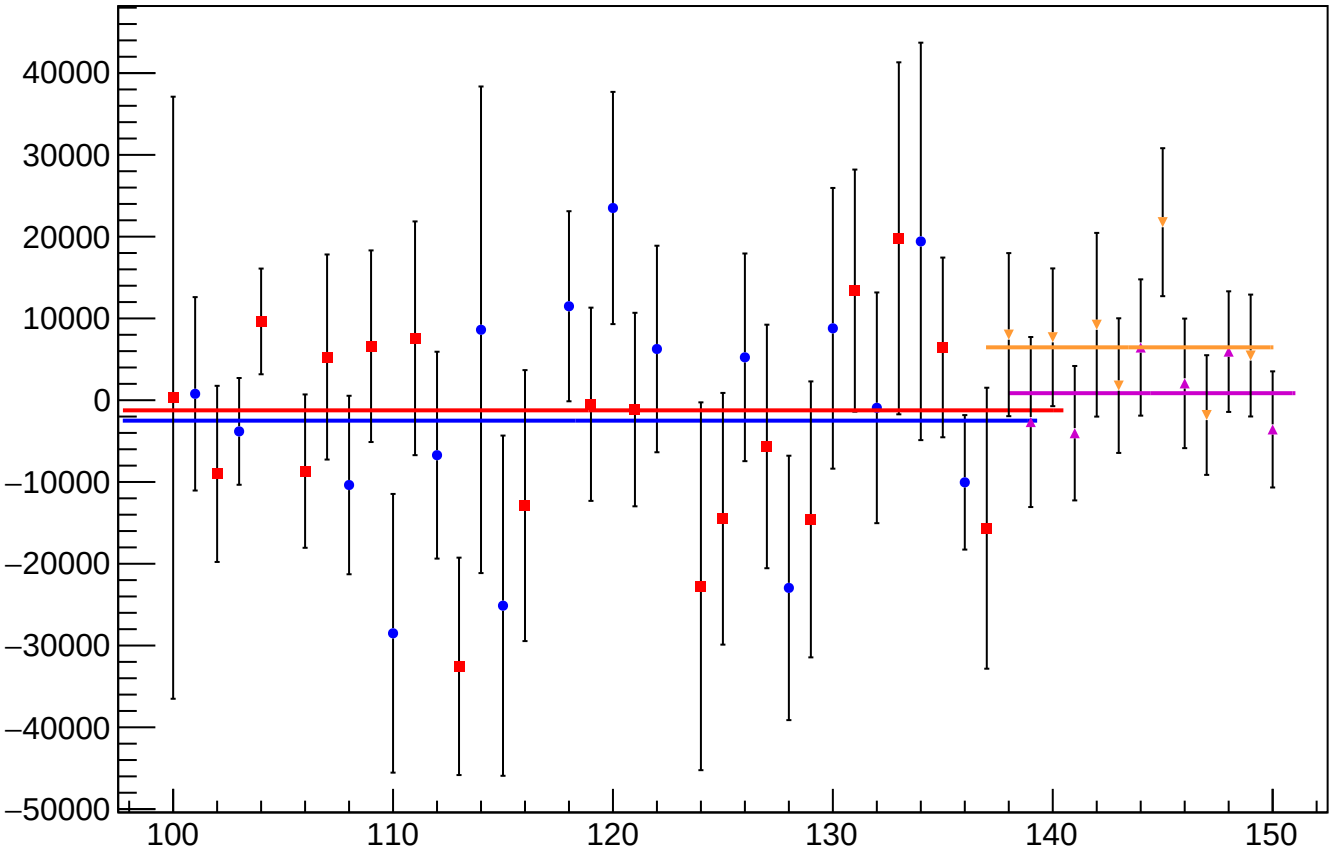
Left: 2548.048+/-0.554 $\chi^2$/NDF: 94633.1/12

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2512.167+/-0.509 $\chi^2$/NDF:653753.5/21

Out: 2502.484+/-0.503 $\chi^2$/NDF:502363.0/25

All: 2507.270+/-0.358 $\chi^2$/NDF: 1156299.7/47




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 6465.614+/-3231.924 $\chi^2$/NDF:4.6/6

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 859.316+/-3285.964 $\chi^2$/NDF:1.8/5

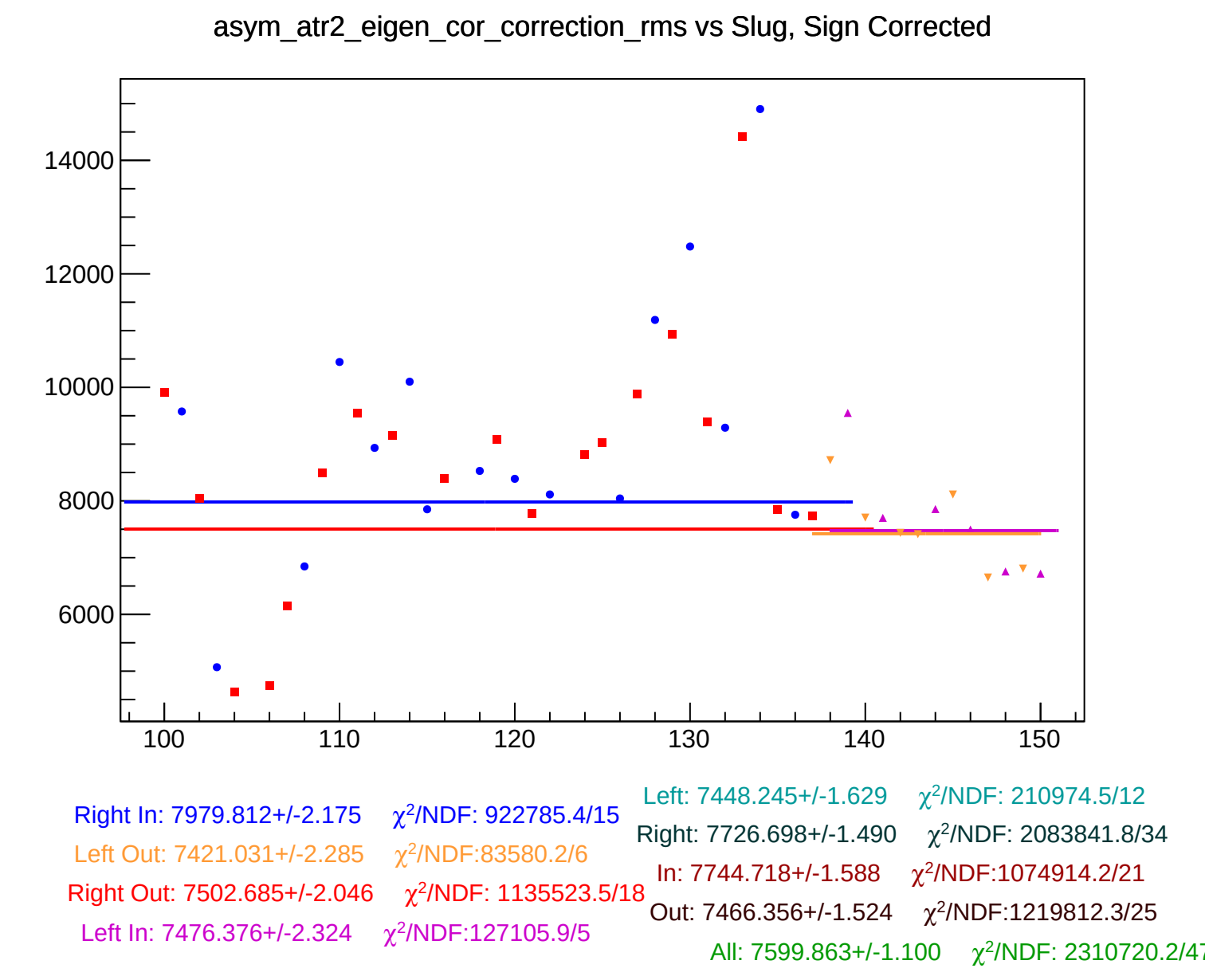
Left: 3708.943+/-2304.184 $\chi^2$/NDF: 7.9/12

Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

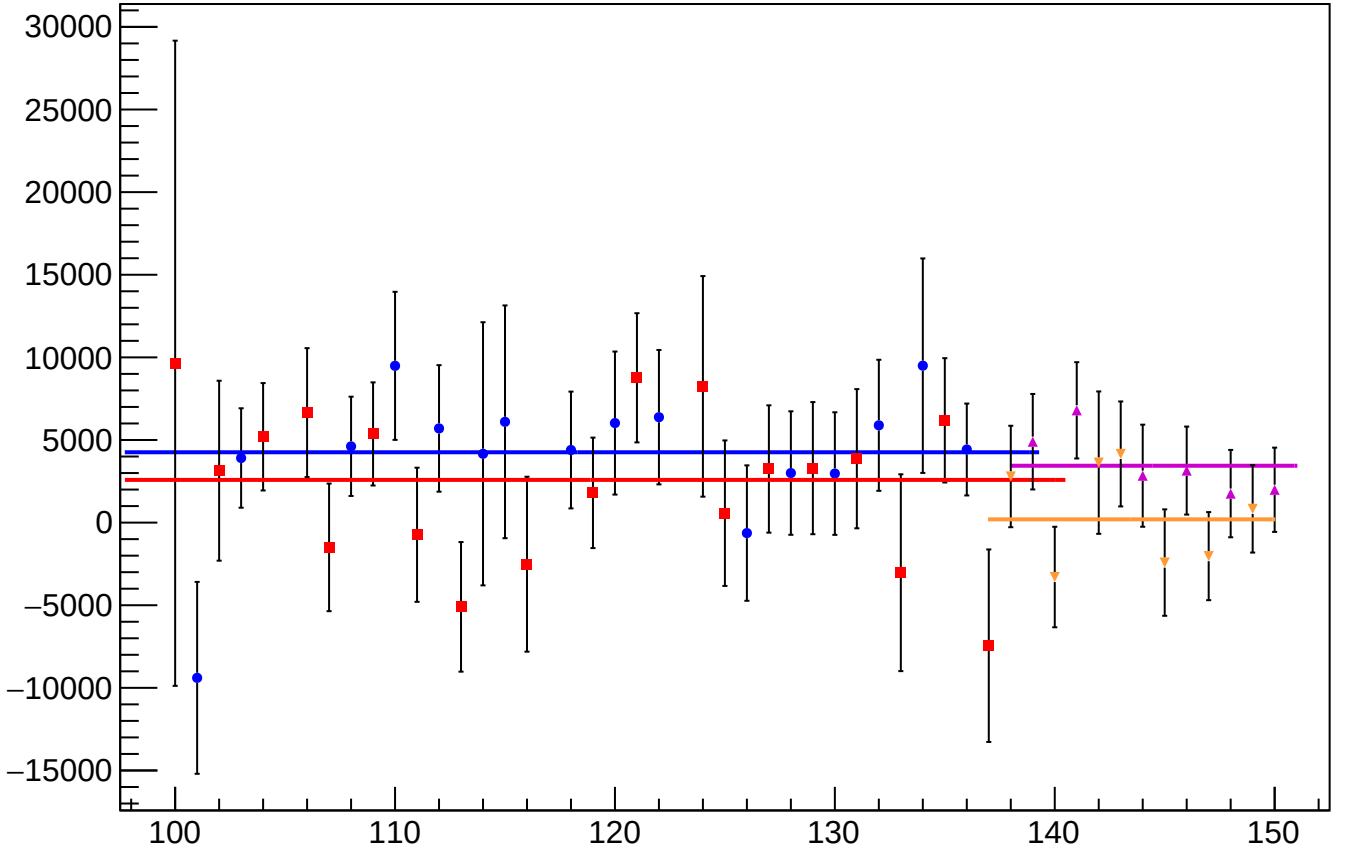
In: -931.472+/-2245.492 $\chi^2$/NDF:16.1/21

Out: 2188.385+/-2155.752 $\chi^2$/NDF:24.4/25

All: 692.043+/-1555.104 $\chi^2$/NDF: 41.5/47


asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
Right In: 7979.812+/-2.175 χ²/NDF: 922785.4/15
Left Out: 7421.031+/-2.285 χ²/NDF:83580.2/6
Right Out: 7502.685+/-2.046 χ²/NDF: 1135523.5/18
Left In: 7476.376+/-2.324 χ²/NDF:127105.9/5
Left: 7448.245+/-1.629 χ²/NDF: 210974.5/12
Right: 7726.698+/-1.490 χ²/NDF: 2083841.8/34
In: 7744.718+/-1.588 χ²/NDF:1074914.2/21
Out: 7466.356+/-1.524 χ²/NDF:1219812.3/25
All: 7599.863+/-1.100 χ²/NDF: 2310720.2/47

# dit_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4256.977+/-990.542 $\chi^2$/NDF: 10.1/15

Left Out: 198.176+/-1156.815 $\chi^2$/NDF:5.6/6

Right Out: 2584.689+/-966.049 $\chi^2$/NDF: 17.6/18

Left In: 3441.452+/-1132.133 $\chi^2$/NDF:2.4/5

Left: 1854.783+/-809.124 $\chi^2$/NDF: 12.0/12

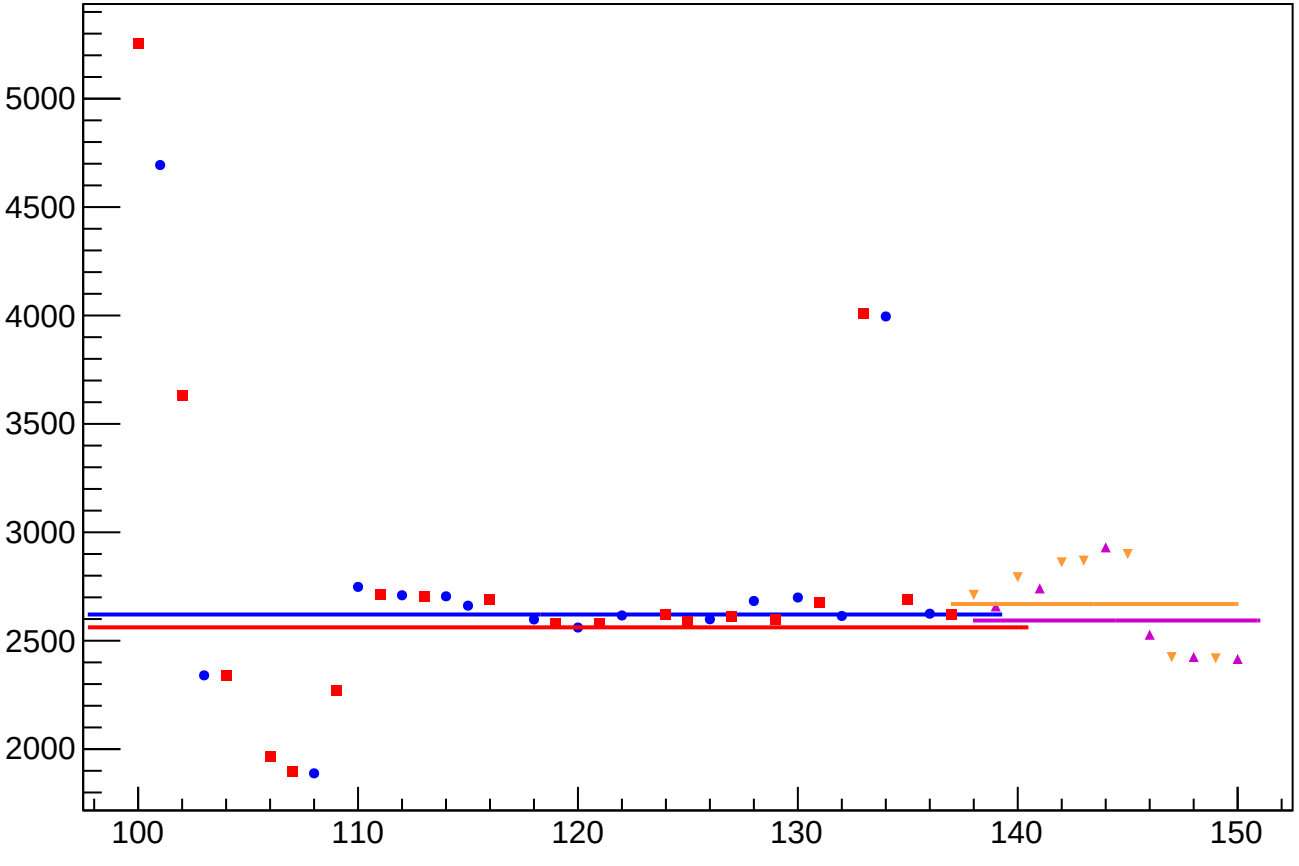
Right: 3399.902+/-691.597 $\chi^2$/NDF: 29.1/34

In: 3903.372+/-745.483 $\chi^2$/NDF:12.7/21

Out: 1604.174+/-741.497 $\chi^2$/NDF:25.8/25

All: 2747.610+/-525.721 $\chi^2$/NDF: 43.3/47

# dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.964+/-0.700 $\chi^2$/NDF: 485914.1/15

Left Out: 2669.101+/-0.818 $\chi^2$/NDF:60644.6/6

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378259.5/18

Left In: 2593.223+/-0.801 $\chi^2$/NDF:49050.3/5

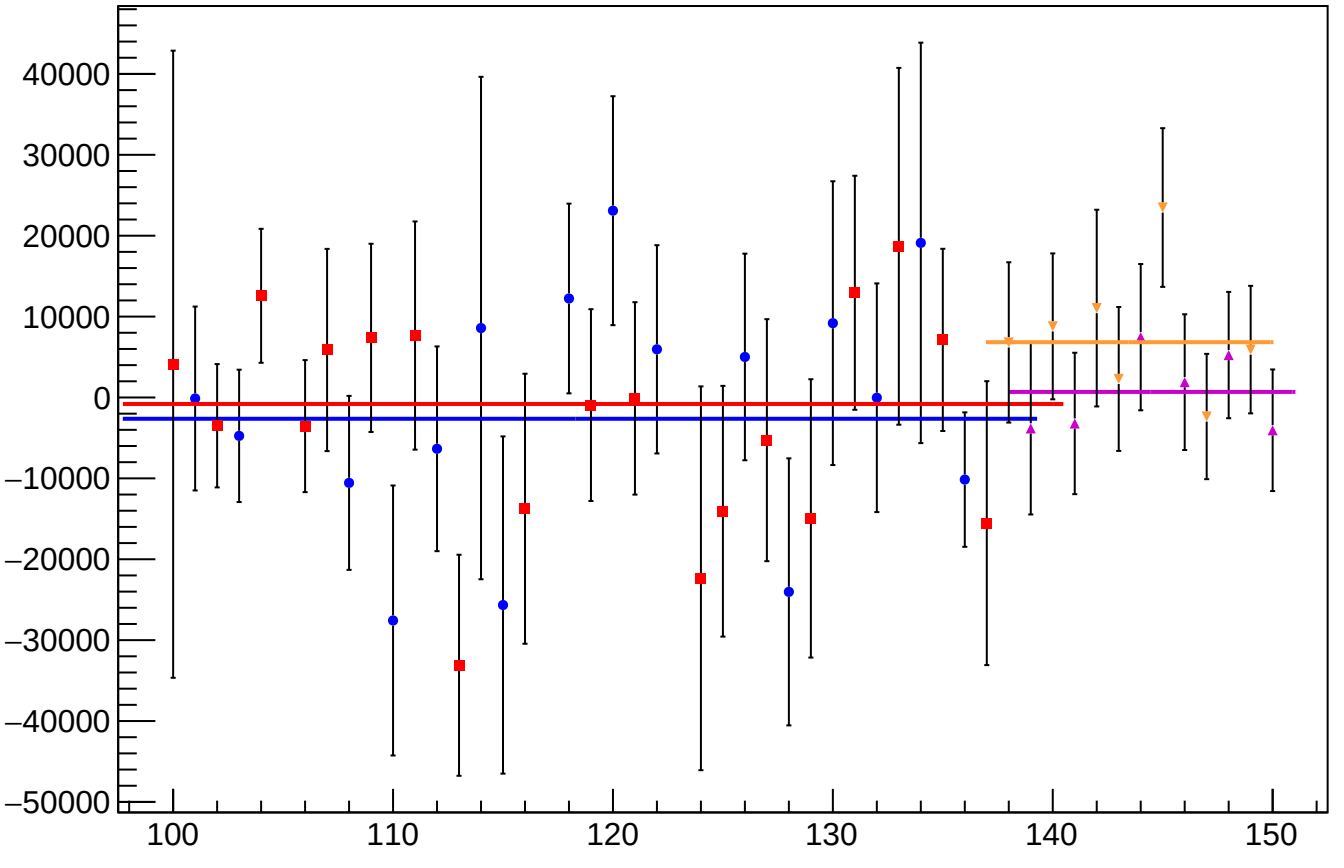
Left: 2630.344+/-0.572 $\chi^2$/NDF: 114090.0/12

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.6/34

In: 2608.935+/-0.527 $\chi^2$/NDF:535644.6/21

Out: 2605.807+/-0.524 $\chi^2$/NDF:449061.8/25

All: 2607.362+/-0.372 $\chi^2$/NDF: 984724.2/47




Right In: -2631.921+/-3211.506 $\chi^2$/NDF: 13.8/15

Left Out: 6834.294+/-3429.465 $\chi^2$/NDF:4.7/6

Right Out: -802.880+/-2872.934 $\chi^2$/NDF: 15.4/18

Left In: 686.836+/-3482.660 $\chi^2$/NDF:1.7/5

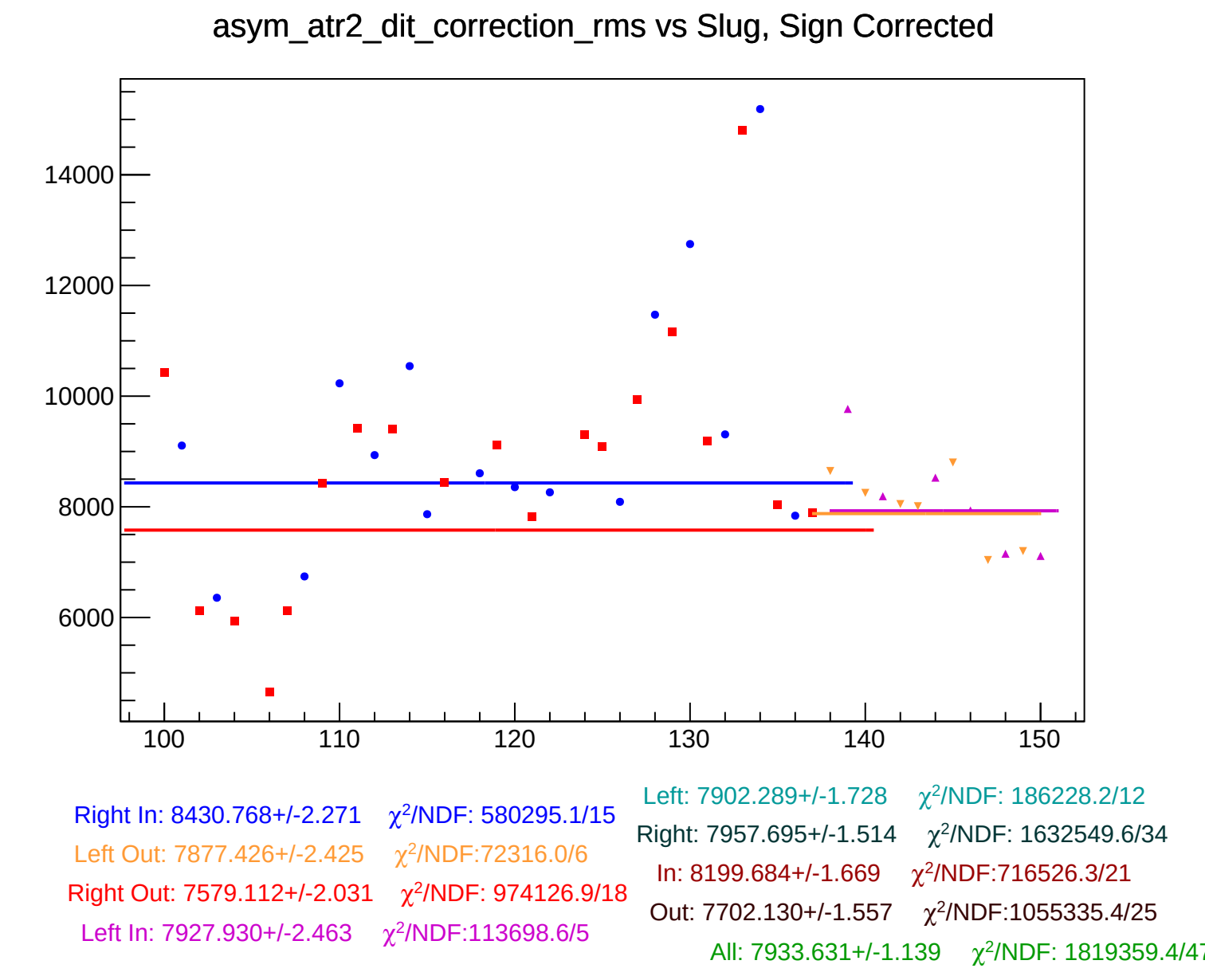
Left: 3807.872+/-2443.588 $\chi^2$/NDF: 8.0/12

Right: -1615.936+/-2141.201 $\chi^2$/NDF: 29.4/34

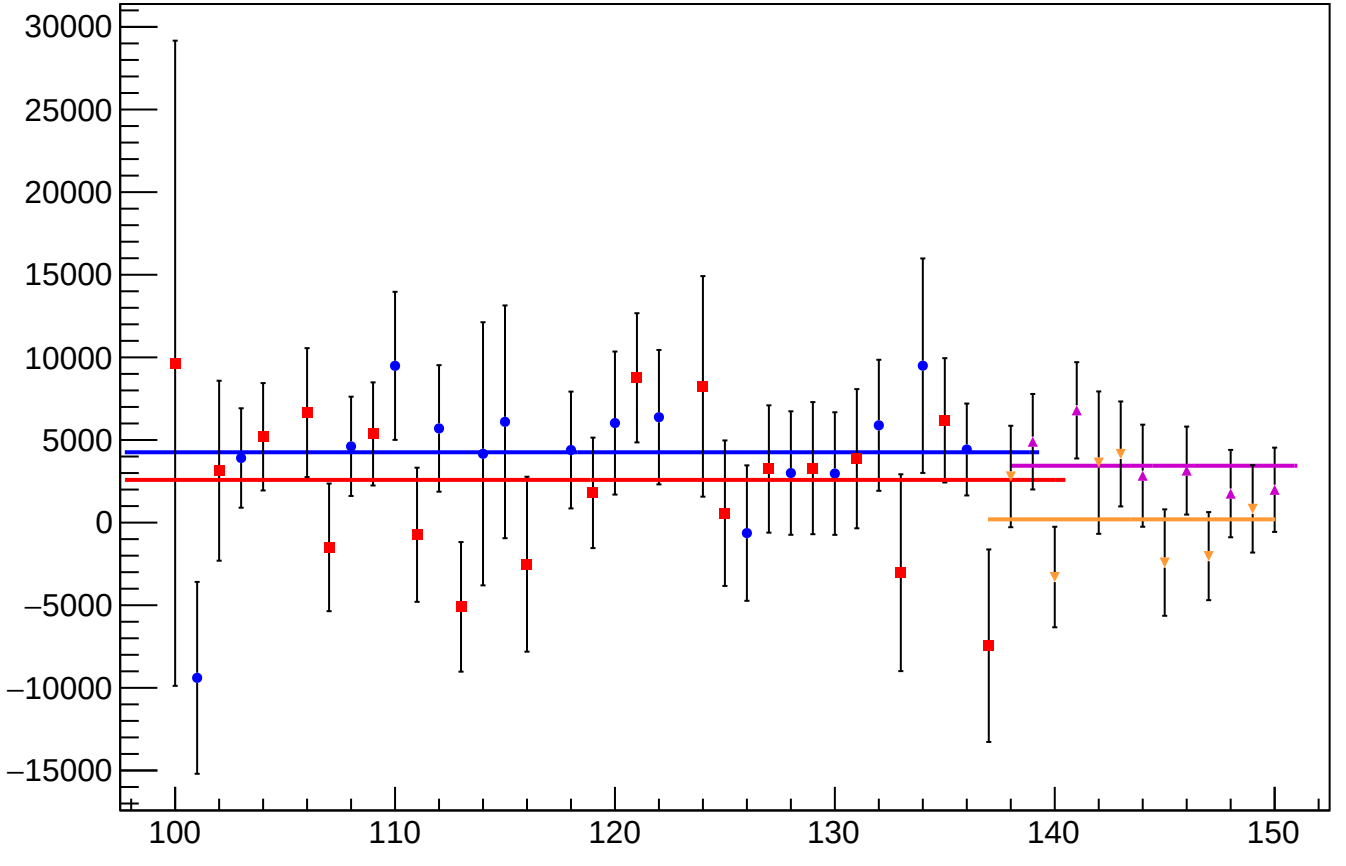
In: -1106.752+/-2360.926 $\chi^2$/NDF:16.0/21

Out: 2346.528+/-2202.290 $\chi^2$/NDF:23.0/25

All: 739.793+/-1610.418 $\chi^2$/NDF: 40.2/47


asym_atr2_dit_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
Right In: 8430.768+/-2.271 χ²/NDF: 580295.1/15
Left Out: 7877.426+/-2.425 χ²/NDF:72316.0/6
Right Out: 7579.112+/-2.031 χ²/NDF: 974126.9/18
Left In: 7927.930+/-2.463 χ²/NDF:113698.6/5
Left: 7902.289+/-1.728 χ²/NDF: 186228.2/12
Right: 7957.695+/-1.514 χ²/NDF: 1632549.6/34
In: 8199.684+/-1.669 χ²/NDF:716526.3/21
Out: 7702.130+/-1.557 χ²/NDF:1055335.4/25
All: 7933.631+/-1.139 χ²/NDF: 1819359.4/47

# eigen_dit_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4256.984+/-990.541 $\chi^2$/NDF: 10.1/15

Left Out: 198.178+/-1156.816 $\chi^2$/NDF:5.6/6

Right Out: 2584.699+/-966.048 $\chi^2$/NDF: 17.6/18

Left In: 3441.446+/-1132.134 $\chi^2$/NDF:2.4/5

Left: 1854.781+/-809.125 $\chi^2$/NDF: 12.0/12

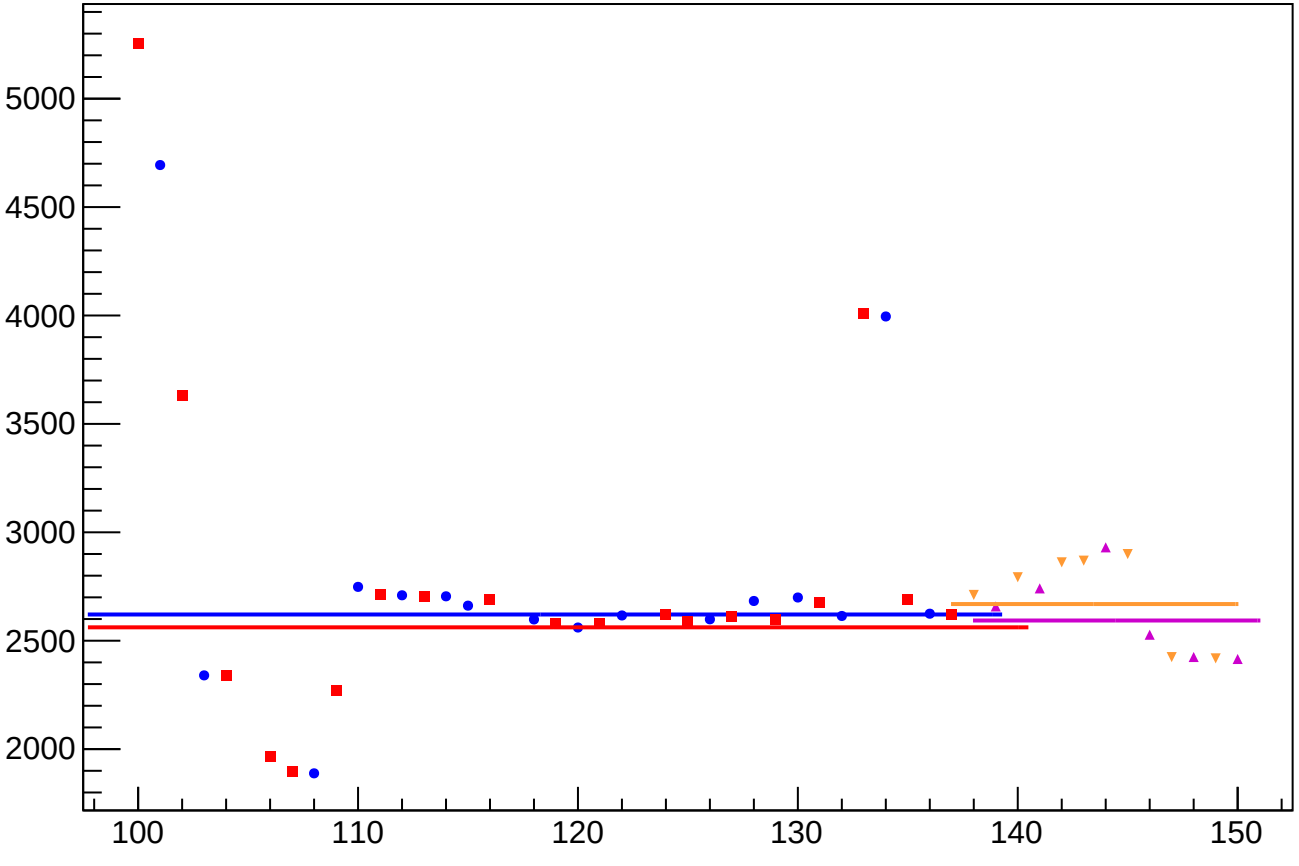
Right: 3399.911+/-691.596 $\chi^2$/NDF: 29.1/34

In: 3903.374+/-745.483 $\chi^2$/NDF:12.7/21

Out: 1604.182+/-741.497 $\chi^2$/NDF:25.8/25

All: 2747.615+/-525.721 $\chi^2$/NDF: 43.3/47

# eigen_dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.963+/-0.700 $\chi^2$/NDF: 485914.3/15

Left Out: 2669.103+/-0.818 $\chi^2$/NDF:60644.6/6

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378258.9/18

Left In: 2593.225+/-0.801 $\chi^2$/NDF:49050.0/5

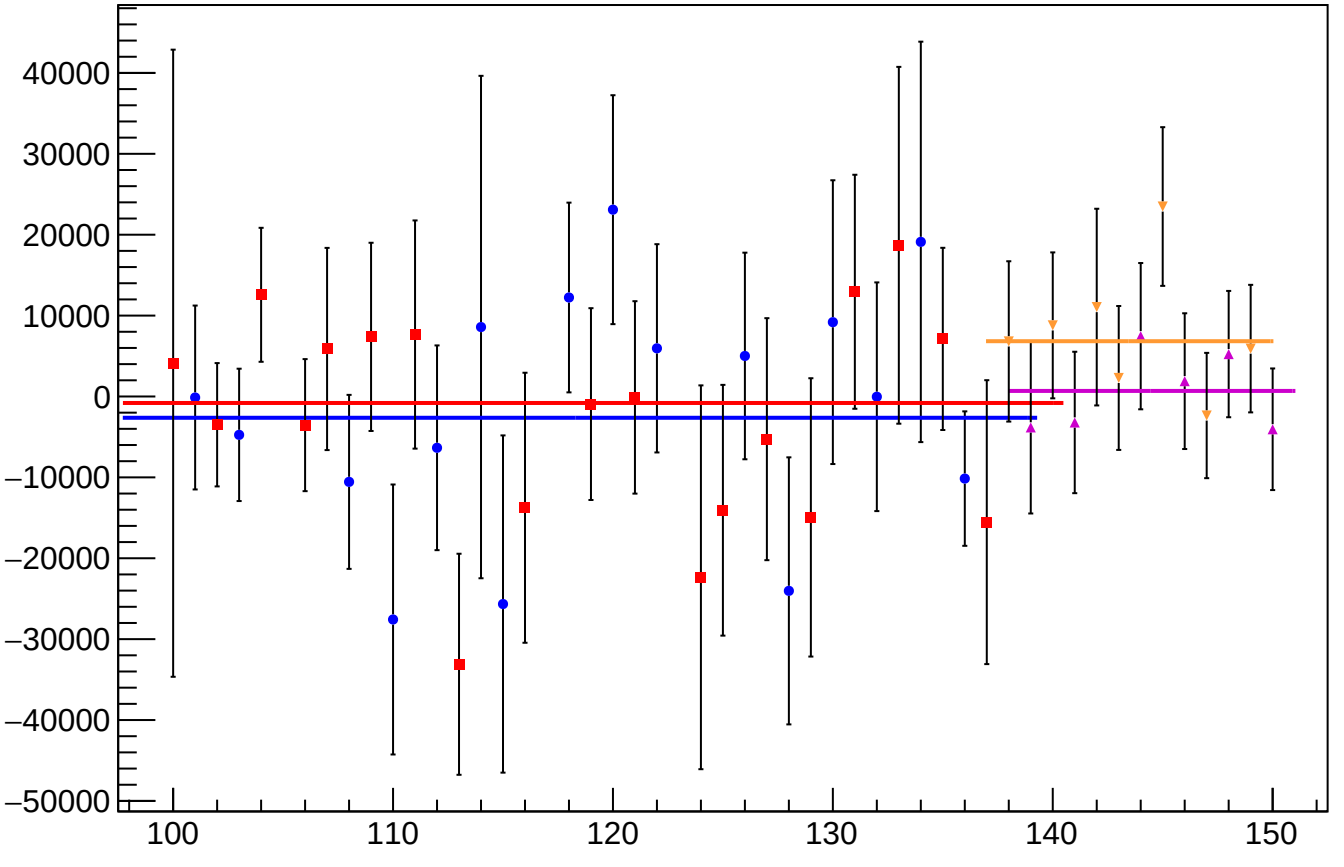
Left: 2630.346+/-0.572 $\chi^2$/NDF: 114089.6/12

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.2/34

In: 2608.936+/-0.527 $\chi^2$/NDF:535644.3/21

Out: 2605.807+/-0.524 $\chi^2$/NDF:449061.7/25

All: 2607.363+/-0.372 $\chi^2$/NDF: 984723.7/47




Right In: -2631.887+/-3211.501 $\chi^2$/NDF: 13.8/15

Left Out: 6834.300+/-3429.471 $\chi^2$/NDF:4.7/6

Right Out: -802.875+/-2872.930 $\chi^2$/NDF: 15.4/18

Left In: 686.827+/-3482.665 $\chi^2$/NDF:1.7/5

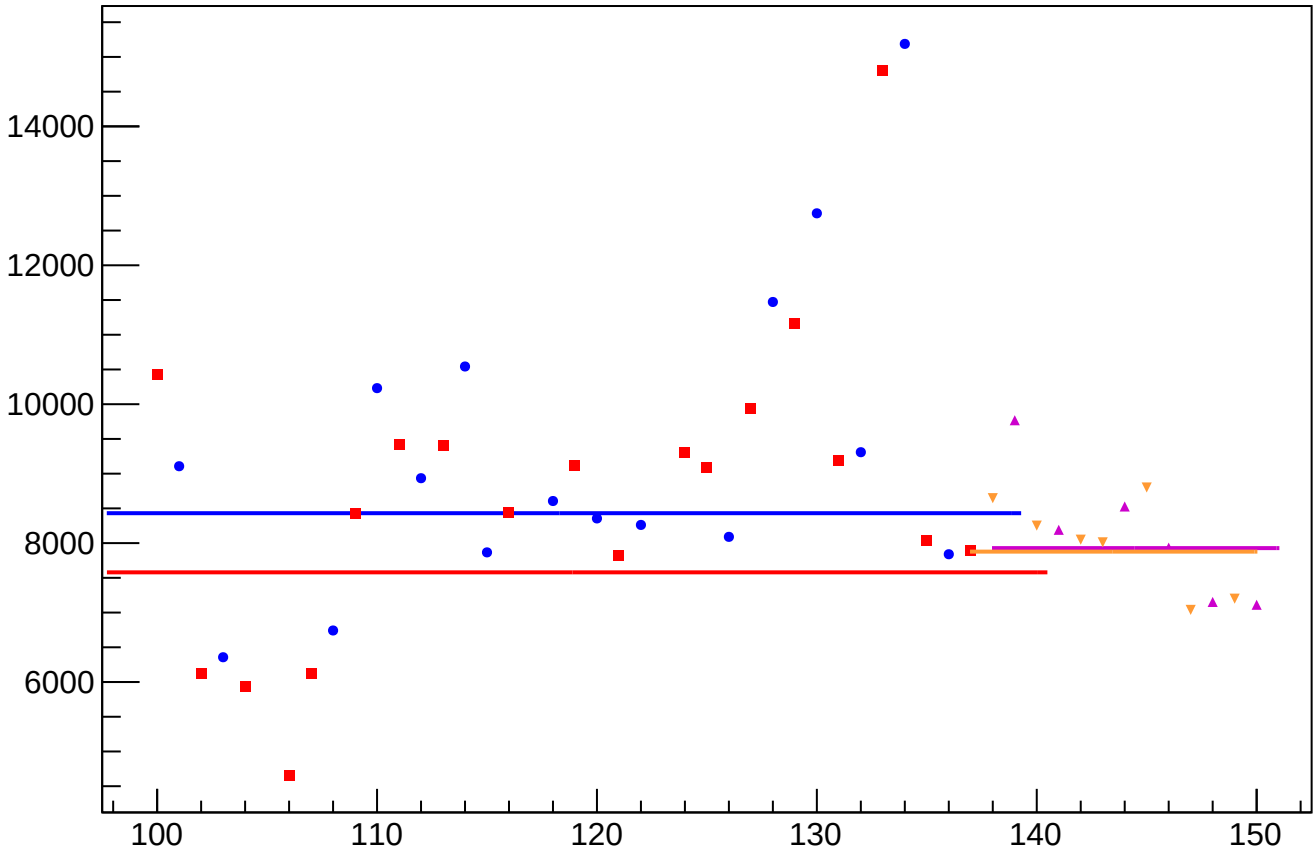
Left: 3807.871+/-2443.592 $\chi^2$/NDF: 8.0/12

Right: -1615.919+/-2141.198 $\chi^2$/NDF: 29.4/34

In: -1106.742+/-2360.926 $\chi^2$/NDF:16.0/21

Out: 2346.521+/-2202.289 $\chi^2$/NDF:23.0/25

All: 739.794+/-1610.417 $\chi^2$/NDF: 40.2/47




Right In: 8430.758+/-2.271 $\chi^2$/NDF: 580289.4/15

Left Out: 7877.438+/-2.425 $\chi^2$/NDF:72315.9/6

Right Out: 7579.100+/-2.031 $\chi^2$/NDF: 974123.2/18

Left In: 7927.942+/-2.463 $\chi^2$/NDF:113698.3/5

Left: 7902.301+/-1.728 $\chi^2$/NDF: 186227.8/12

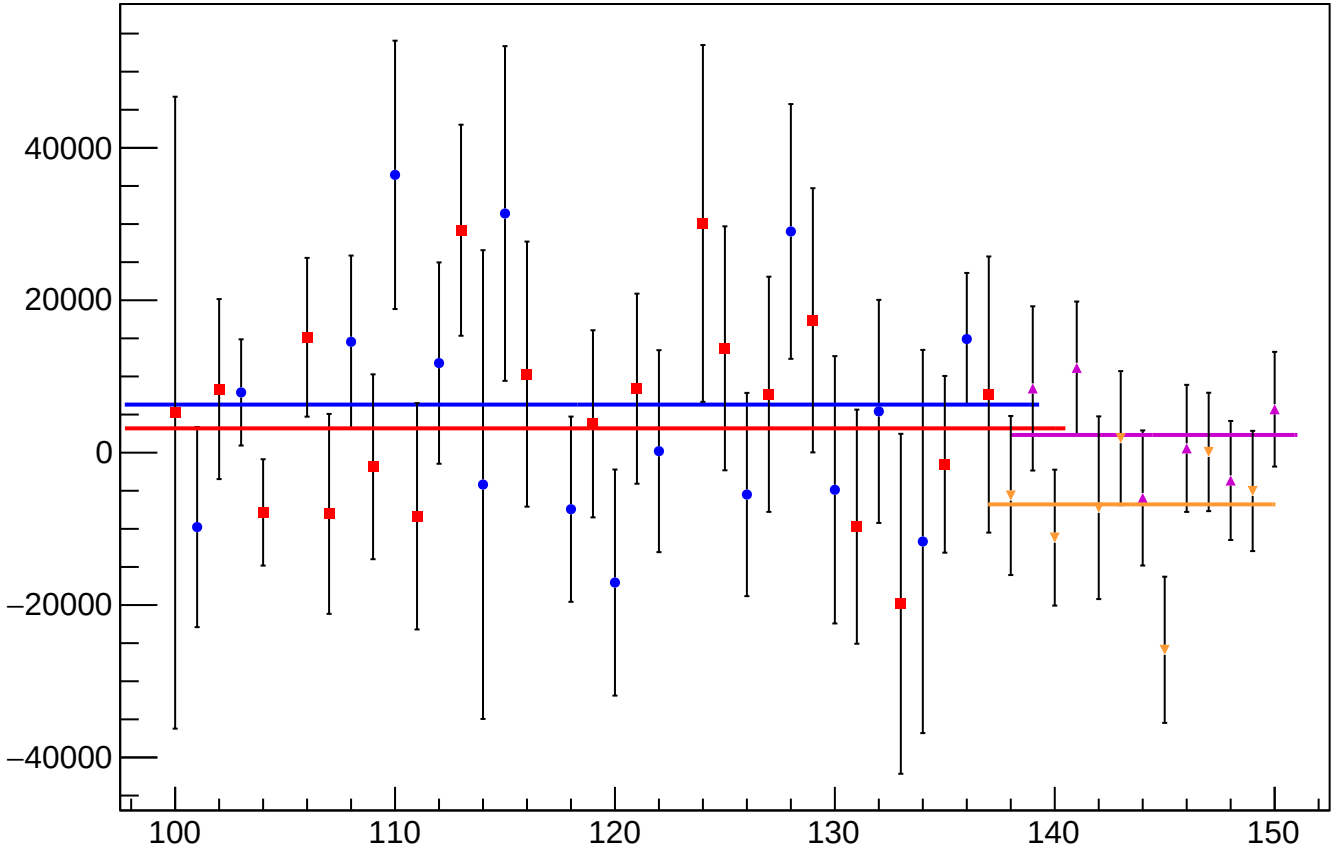
Right: 7957.685+/-1.514 $\chi^2$/NDF: 1632540.7/34

In: 8199.684+/-1.669 $\chi^2$/NDF:716518.4/21

Out: 7702.128+/-1.557 $\chi^2$/NDF:1055333.0/25

All: 7933.630+/-1.139 $\chi^2$/NDF: 1819349.6/47

# asym_atr2_mean vs Slug, Sign Corrected




Right In: 6307.034+/-3239.703 $\chi^2$/NDF: 15.1/15

Left Out: -6787.153+/-3427.281 $\chi^2$/NDF:6.0/6

Right Out: 3189.356+/-3068.645 $\chi^2$/NDF: 13.9/18

Left In: 2323.215+/-3472.290 $\chi^2$/NDF:3.0/5

Left: -2291.398+/-2439.211 $\chi^2$/NDF: 12.6/12

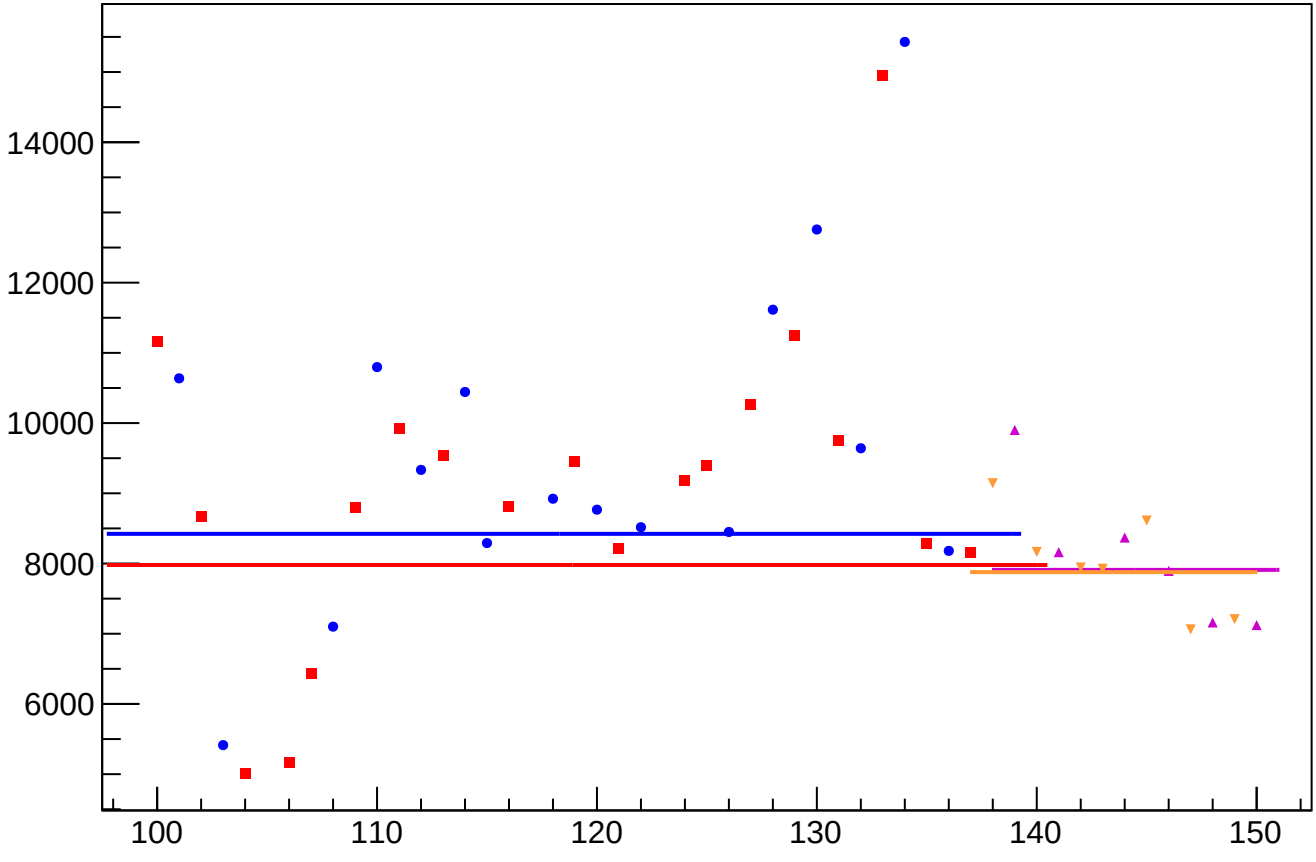
Right: 4663.718+/-2227.879 $\chi^2$/NDF: 29.5/34

In: 4453.008+/-2368.776 $\chi^2$/NDF:18.9/21

Out: -1249.777+/-2286.175 $\chi^2$/NDF:24.6/25

All: 1500.452+/-1644.997 $\chi^2$/NDF: 46.5/47

# asym_atr2_rms vs Slug, Sign Corrected




Right In: 8422.717+/-2.291 $\chi^2$/NDF: 881833.9/15

Left Out: 7877.422+/-2.423 $\chi^2$/NDF:79826.8/6

Right Out: 7978.997+/-2.170 $\chi^2$/NDF: 1016019.0/18

Left In: 7909.482+/-2.455 $\chi^2$/NDF:115631.2/5

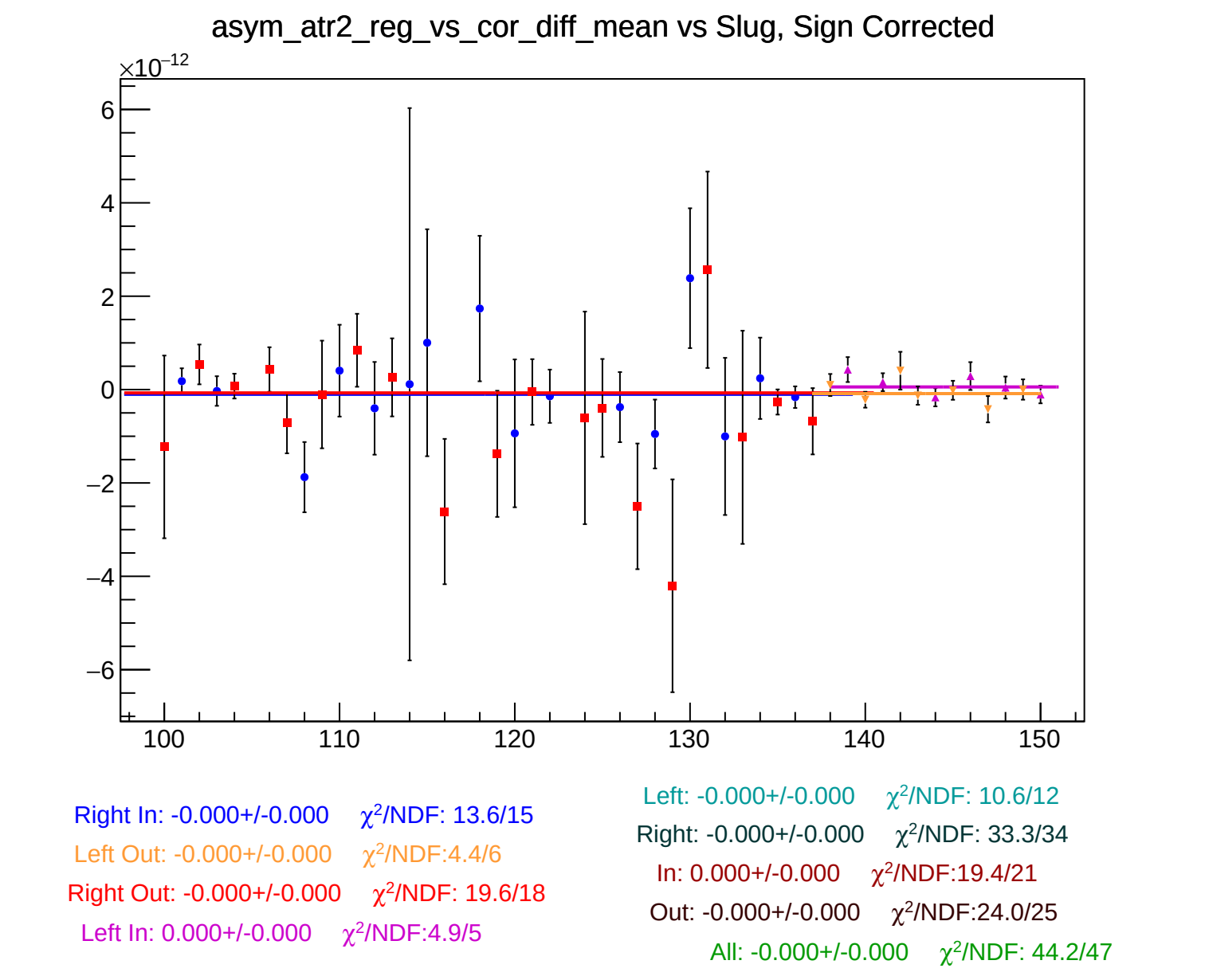
Left: 7893.243+/-1.725 $\chi^2$/NDF: 195544.4/12

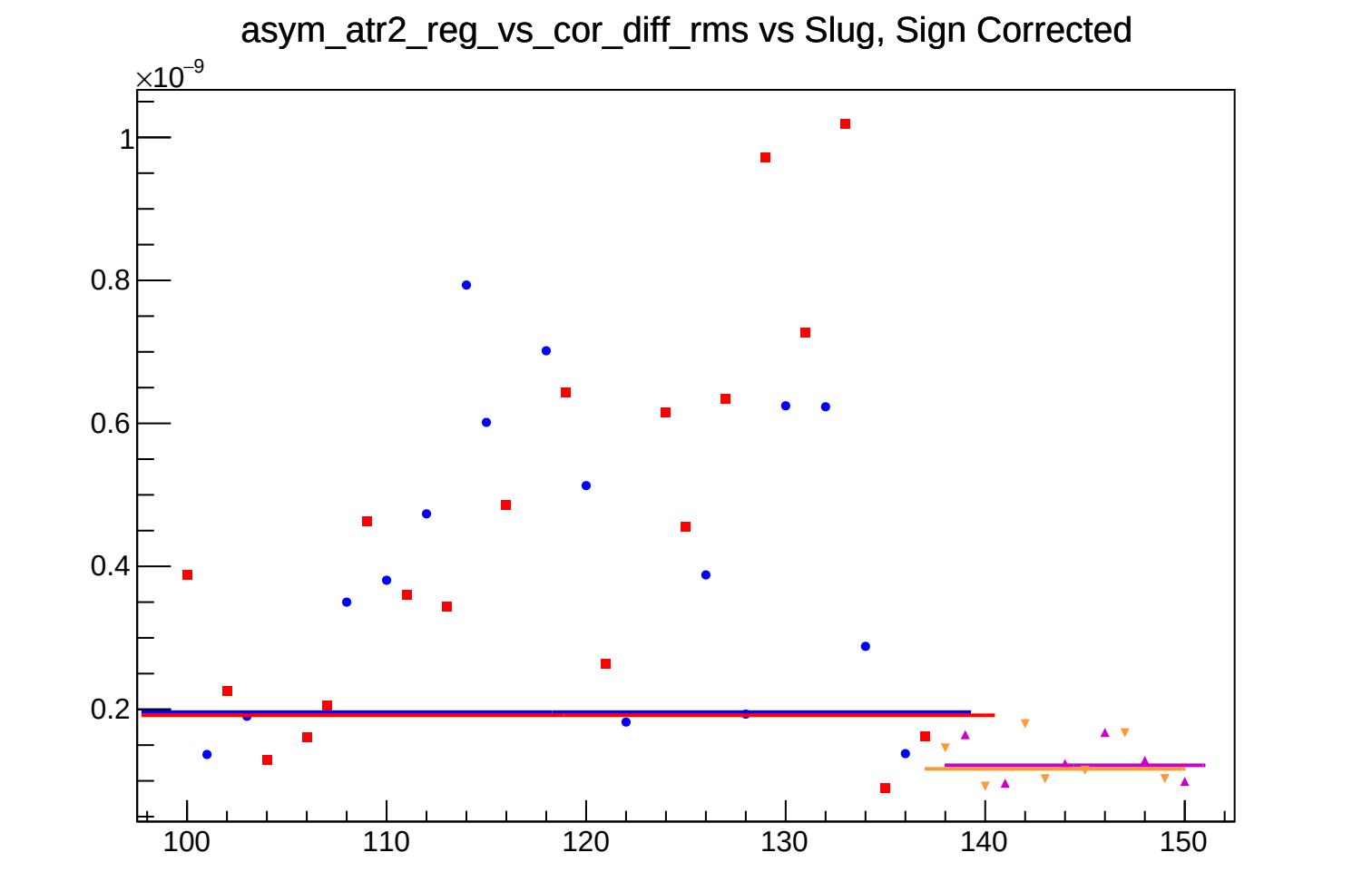
Right: 8188.830+/-1.575 $\chi^2$/NDF: 1917628.8/34

In: 8183.863+/-1.675 $\chi^2$/NDF:1020824.9/21

Out: 7933.801+/-1.617 $\chi^2$/NDF:1096820.9/25

All: 8054.395+/-1.163 $\chi^2$/NDF: 2129185.5/47


asym_atr2_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 13.6/15
Left Out: -0.000+/-0.000 χ²/NDF:4.4/6
Right Out: -0.000+/-0.000 χ²/NDF: 19.6/18
Left In: 0.000+/-0.000 χ²/NDF:4.9/5
Left: -0.000+/-0.000 χ²/NDF: 10.6/12
Right: -0.000+/-0.000 χ²/NDF: 33.3/34
In: 0.000+/-0.000 χ²/NDF:19.4/21
Out: -0.000+/-0.000 χ²/NDF:24.0/25
All: -0.000+/-0.000 χ²/NDF: 44.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1342263.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:202124.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2066454.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:163401.2/5

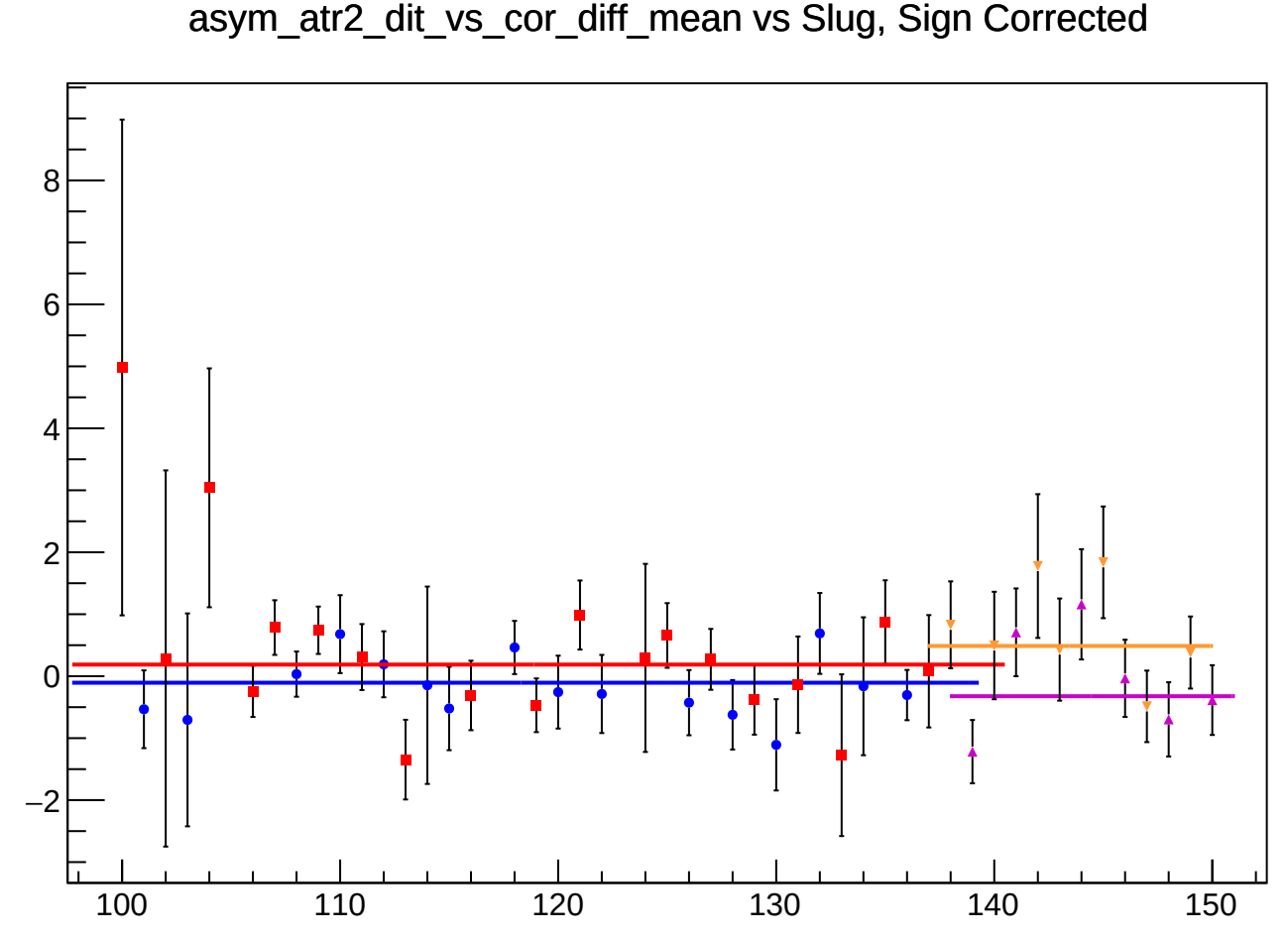
Left: 0.000+/-0.000 $\chi^2$/NDF: 368835.8/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3409753.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:1929588.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2693255.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4634716.3/47




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.488+/-0.280 $\chi^2$/NDF:6.6/6

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.323+/-0.253 $\chi^2$/NDF:8.6/5

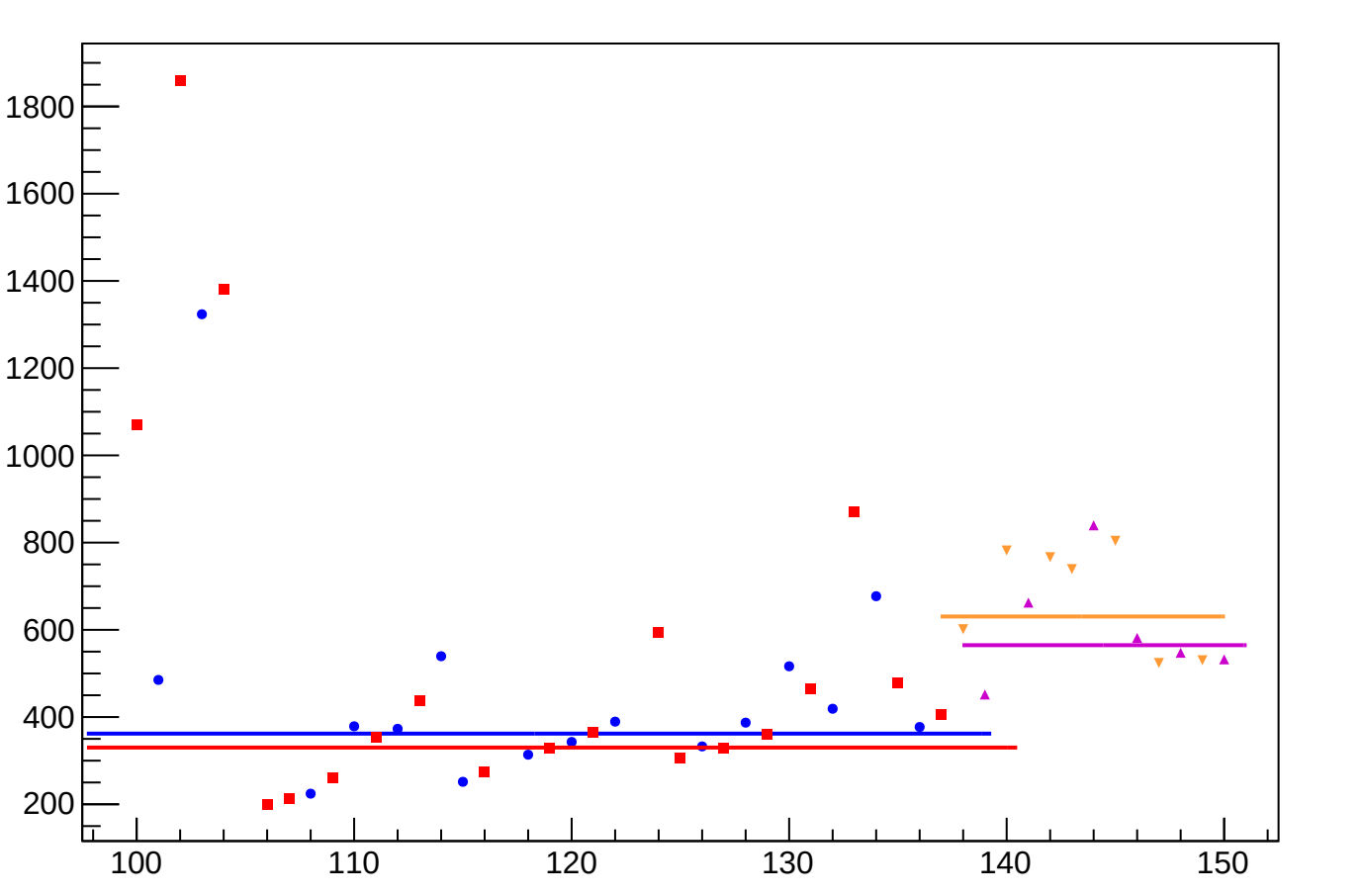
Left: 0.042+/-0.188 $\chi^2$/NDF: 19.8/12

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.159+/-0.126 $\chi^2$/NDF:18.8/21

Out: 0.245+/-0.123 $\chi^2$/NDF:31.4/25

All: 0.047+/-0.088 $\chi^2$/NDF: 55.5/47




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 630.565+/-0.198 $\chi^2$/NDF:328749.6/6

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 564.792+/-0.179 $\chi^2$/NDF:336556.1/5

Left: 594.393+/-0.133 $\chi^2$/NDF: 726100.2/12

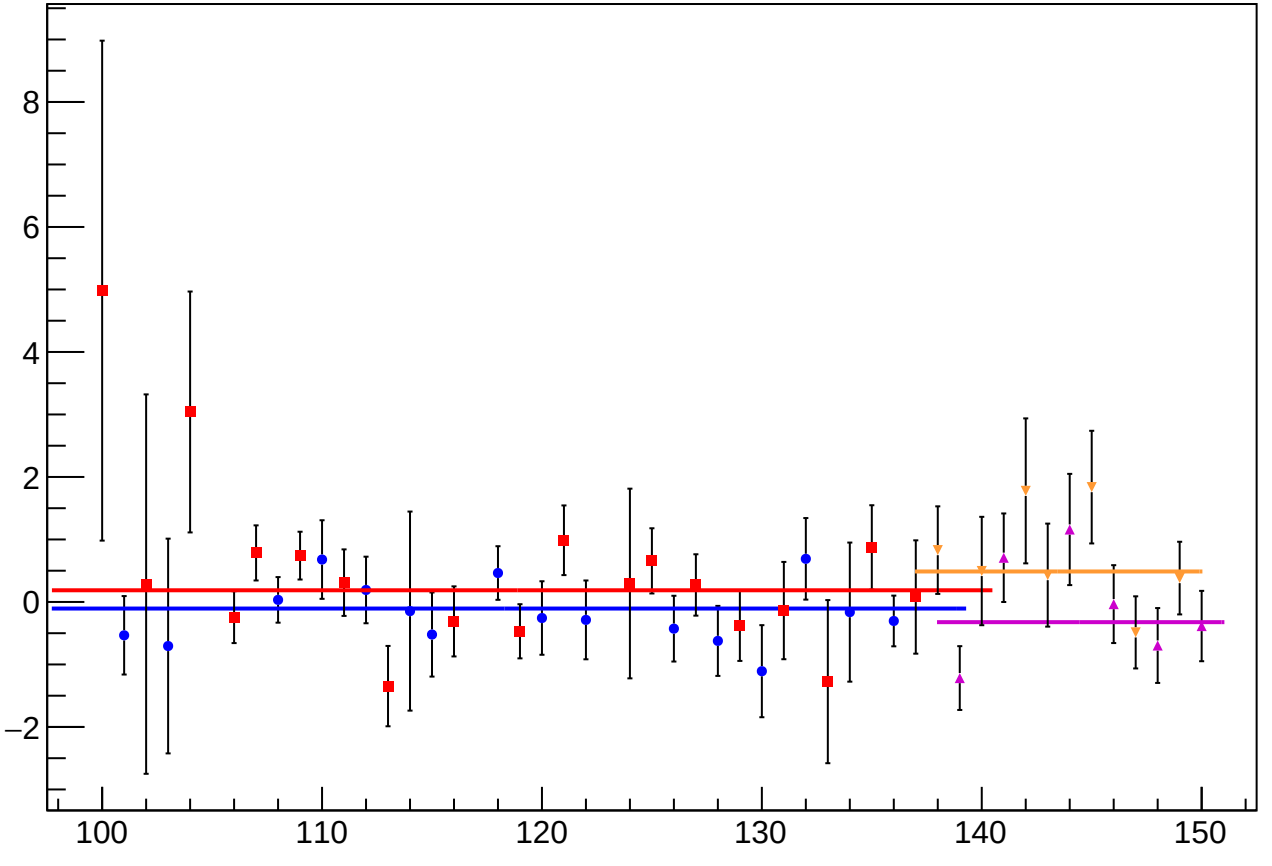
Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 411.980+/-0.089 $\chi^2$/NDF:2681344.4/21

Out: 388.485+/-0.087 $\chi^2$/NDF:4434018.4/25

All: 400.019+/-0.062 $\chi^2$/NDF: 7150988.5/47

asym_atr2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.488+/-0.280 $\chi^2$/NDF:6.6/6

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.323+/-0.253 $\chi^2$/NDF:8.6/5

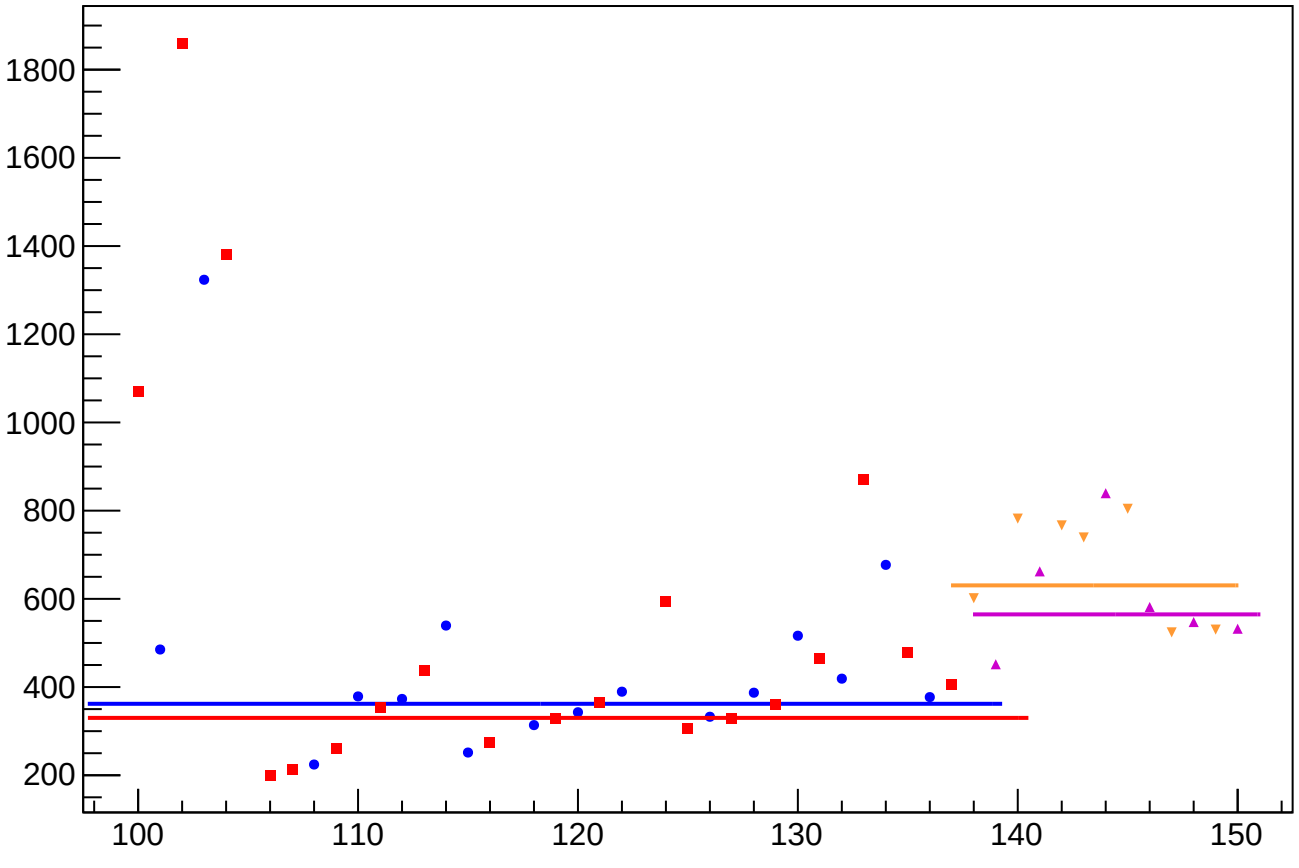
Left: 0.042+/-0.188 $\chi^2$/NDF: 19.8/12

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.159+/-0.126 $\chi^2$/NDF:18.8/21

Out: 0.245+/-0.123 $\chi^2$/NDF:31.4/25

All: 0.047+/-0.088 $\chi^2$/NDF: 55.5/47




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 630.565+/-0.198 $\chi^2$/NDF:328749.6/6

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 564.792+/-0.179 $\chi^2$/NDF:336556.1/5

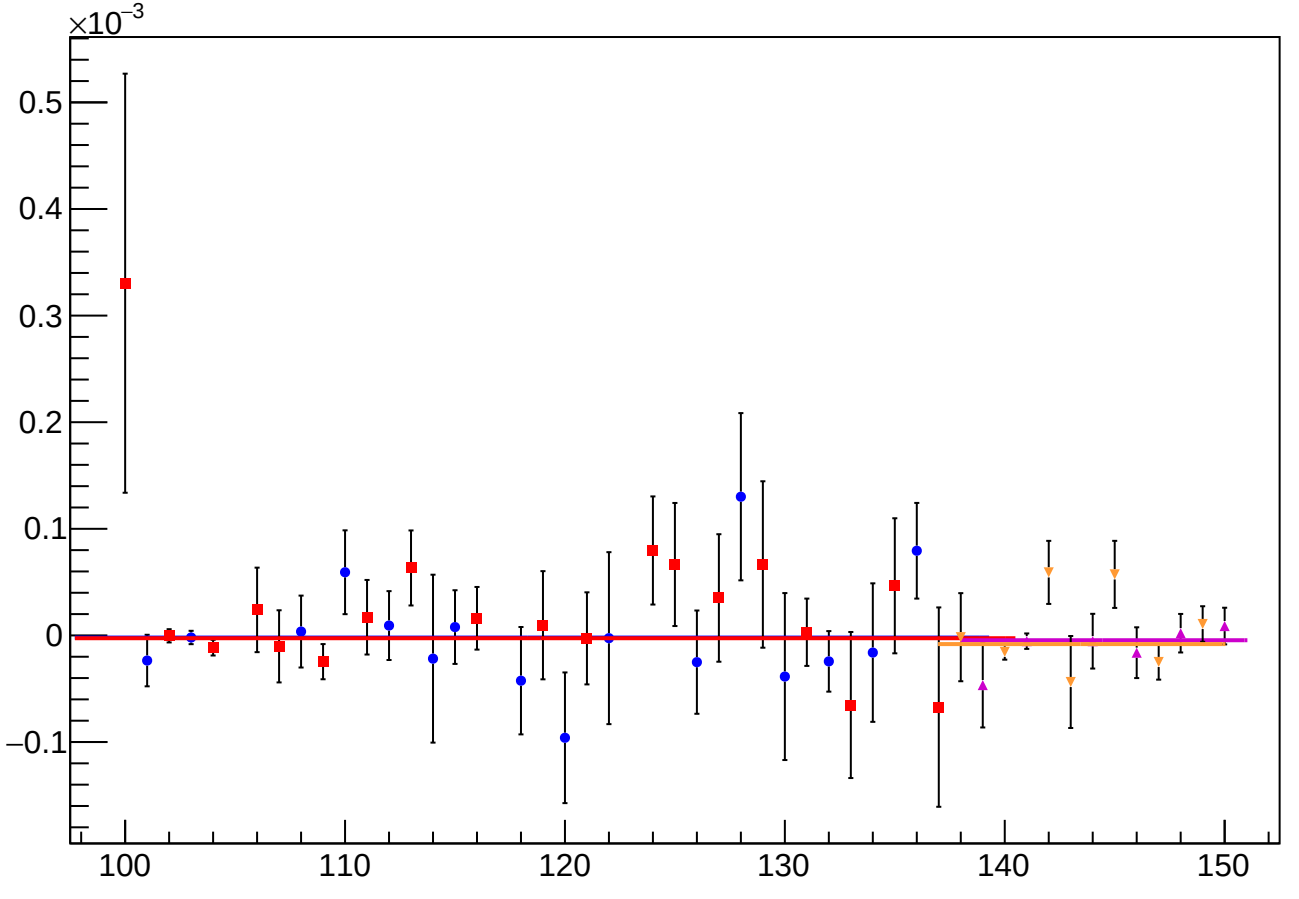
Left: 594.393+/-0.133 $\chi^2$/NDF: 726100.2/12

Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 411.980+/-0.089 $\chi^2$/NDF:2681344.4/21

Out: 388.485+/-0.087 $\chi^2$/NDF:4434018.4/25

All: 400.019+/-0.062 $\chi^2$/NDF: 7150988.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.1/5

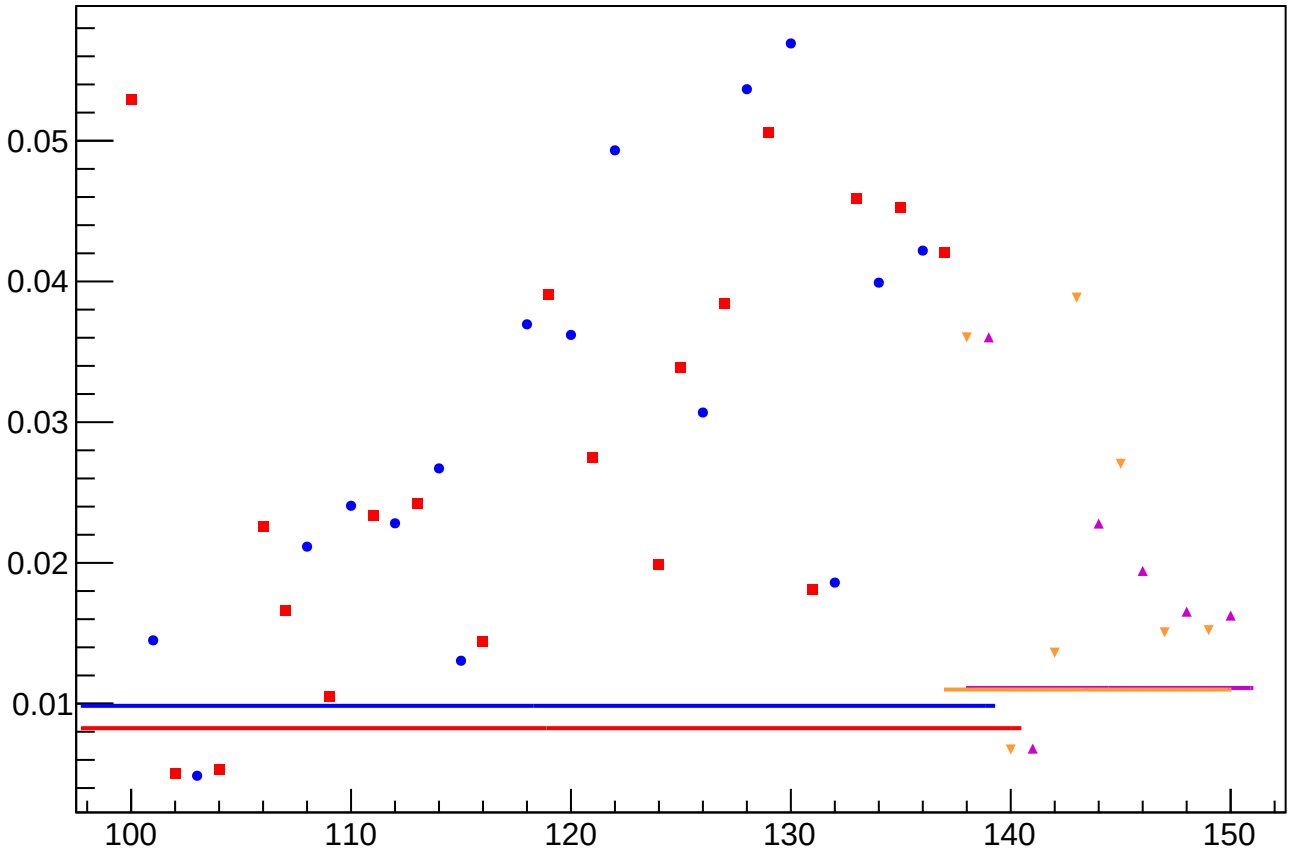
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:32.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.3/47




Right In: 0.010+/-0.000 $\chi^2$/NDF: 7052383.3/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:3024082.5/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 6740964.7/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:2510815.0/5

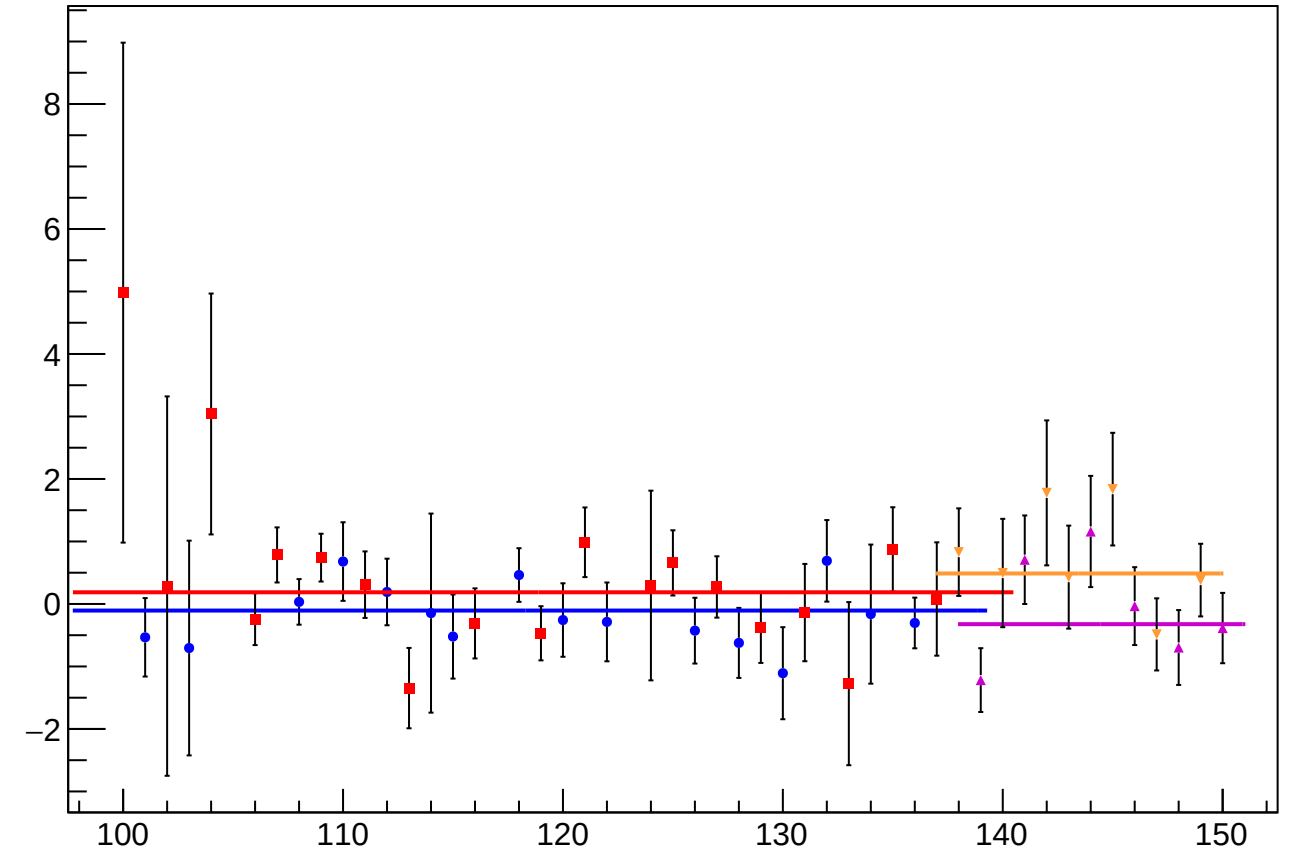
Left: 0.011+/-0.000 $\chi^2$/NDF: 5535273.9/12

Right: 0.009+/-0.000 $\chi^2$/NDF: 13900238.9/34

In: 0.010+/-0.000 $\chi^2$/NDF:9614171.7/21

Out: 0.009+/-0.000 $\chi^2$/NDF:10052704.5/25

All: 0.010+/-0.000 $\chi^2$/NDF: 19778292.5/47




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.488+/-0.280 $\chi^2$/NDF:6.6/6

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.323+/-0.253 $\chi^2$/NDF:8.6/5

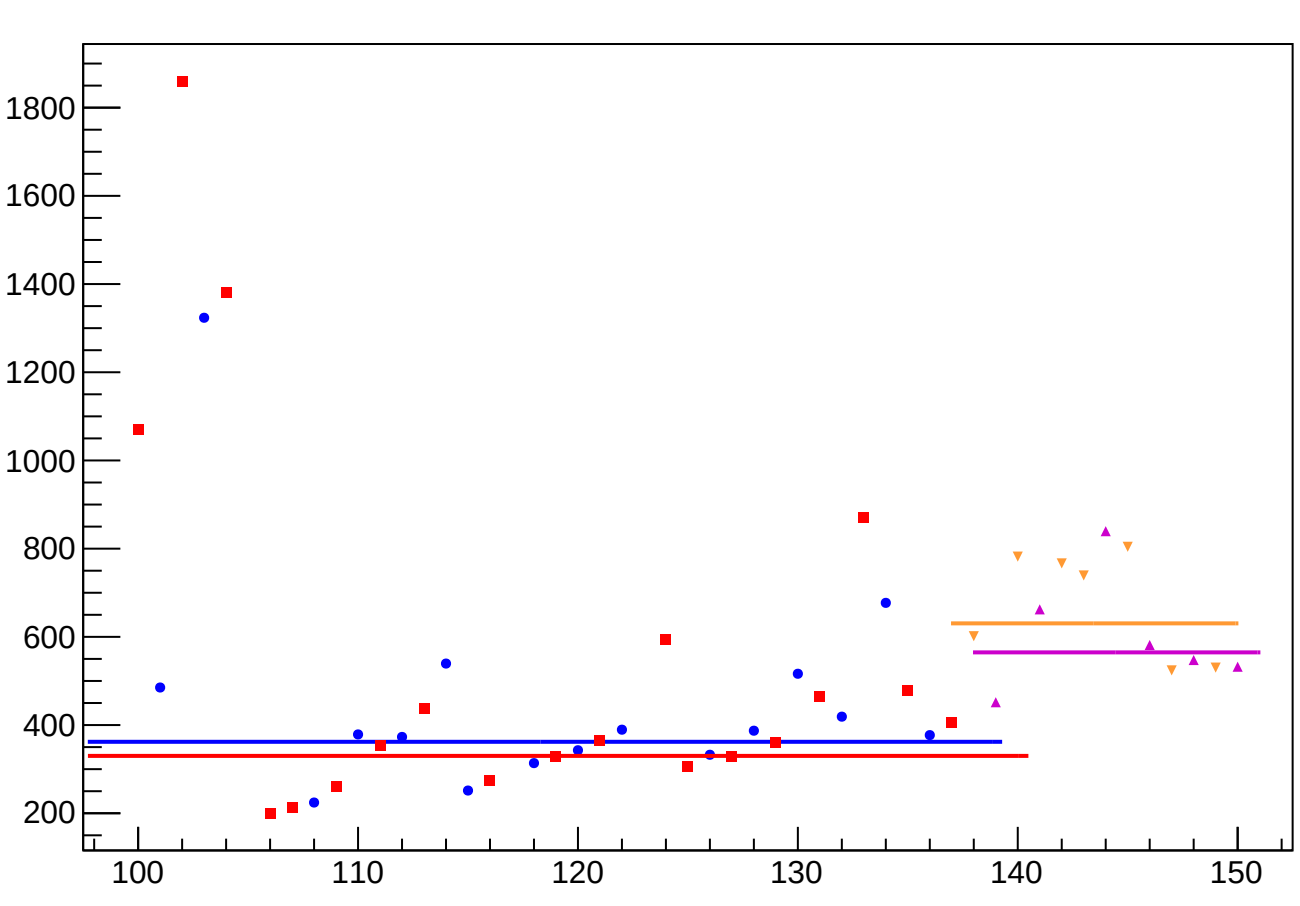
Left: 0.042+/-0.188 $\chi^2$/NDF: 19.8/12

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.159+/-0.126 $\chi^2$/NDF:18.8/21

Out: 0.245+/-0.123 $\chi^2$/NDF:31.4/25

All: 0.047+/-0.088 $\chi^2$/NDF: 55.5/47




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 630.575+/-0.198 $\chi^2$/NDF:328734.6/6

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 564.801+/-0.179 $\chi^2$/NDF:336540.2/5

Left: 594.403+/-0.133 $\chi^2$/NDF: 726068.6/12

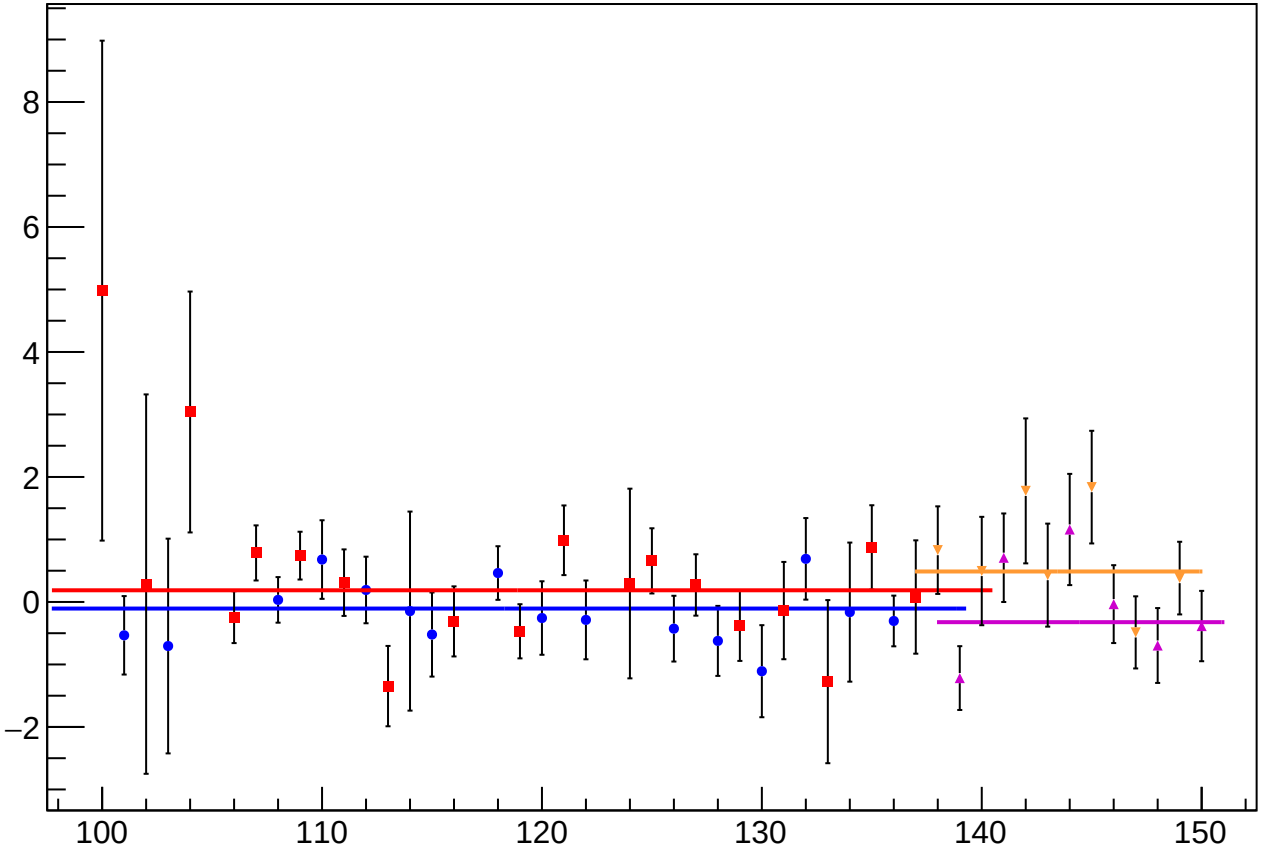
Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 411.979+/-0.089 $\chi^2$/NDF:2681424.3/21

Out: 388.484+/-0.087 $\chi^2$/NDF:4434090.4/25

All: 400.017+/-0.062 $\chi^2$/NDF: 7151138.9/47

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.488+/-0.280 $\chi^2$/NDF:6.6/6

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.323+/-0.253 $\chi^2$/NDF:8.6/5

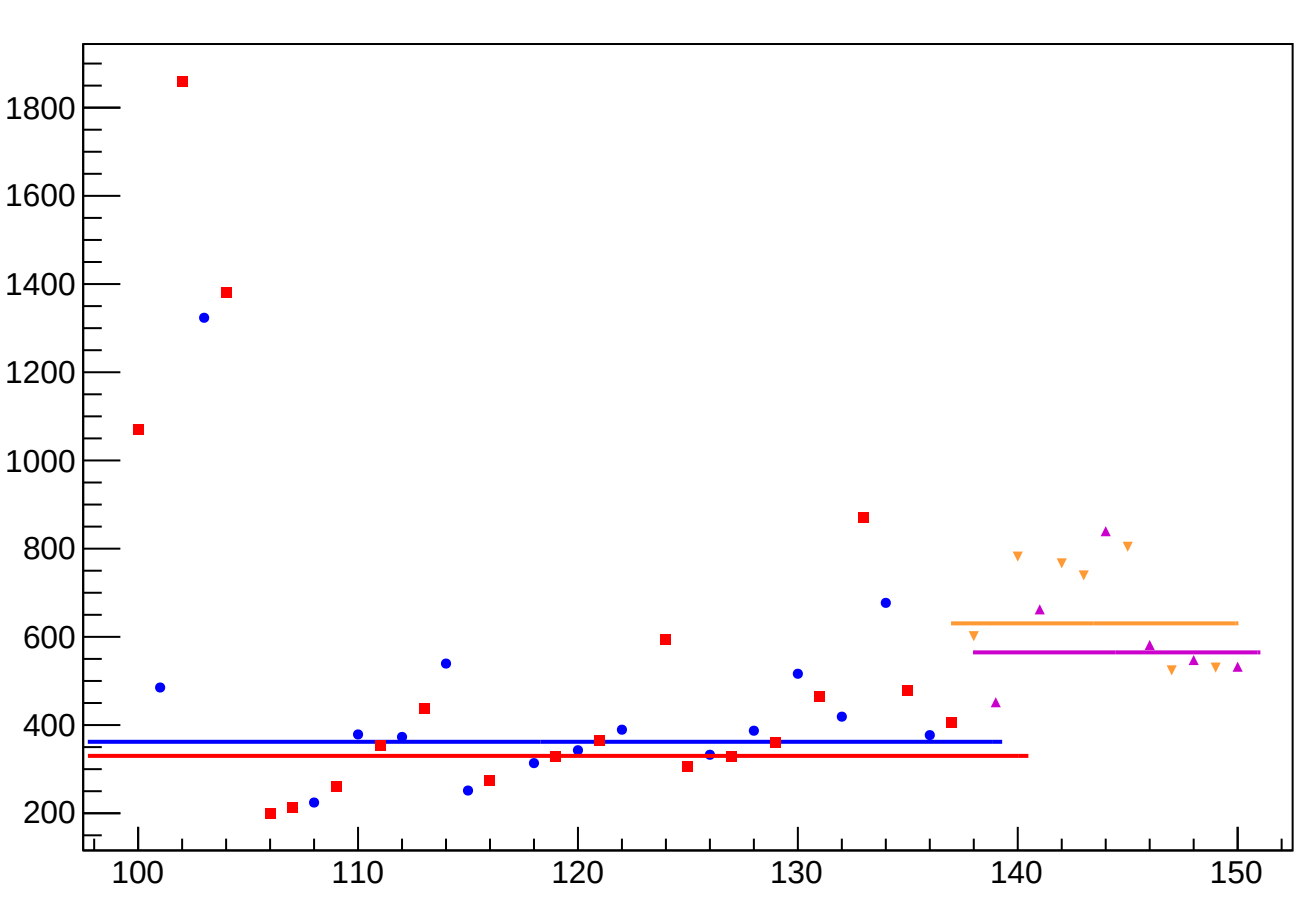
Left: 0.042+/-0.188 $\chi^2$/NDF: 19.8/12

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.159+/-0.126 $\chi^2$/NDF:18.8/21

Out: 0.245+/-0.123 $\chi^2$/NDF:31.4/25

All: 0.047+/-0.088 $\chi^2$/NDF: 55.5/47




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 630.575+/-0.198 $\chi^2$/NDF:328734.6/6

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 564.801+/-0.179 $\chi^2$/NDF:336540.2/5

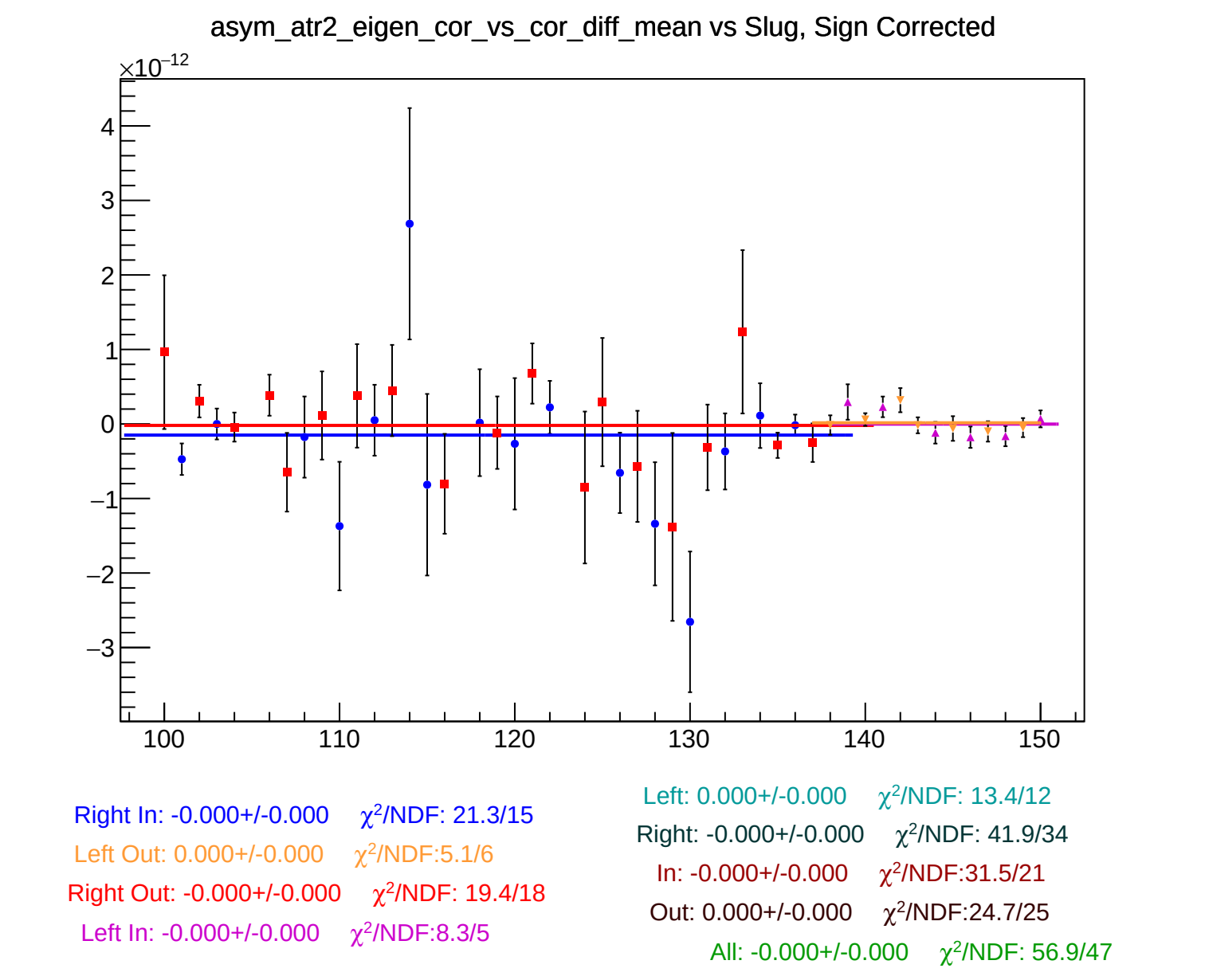
Left: 594.403+/-0.133 $\chi^2$/NDF: 726068.6/12

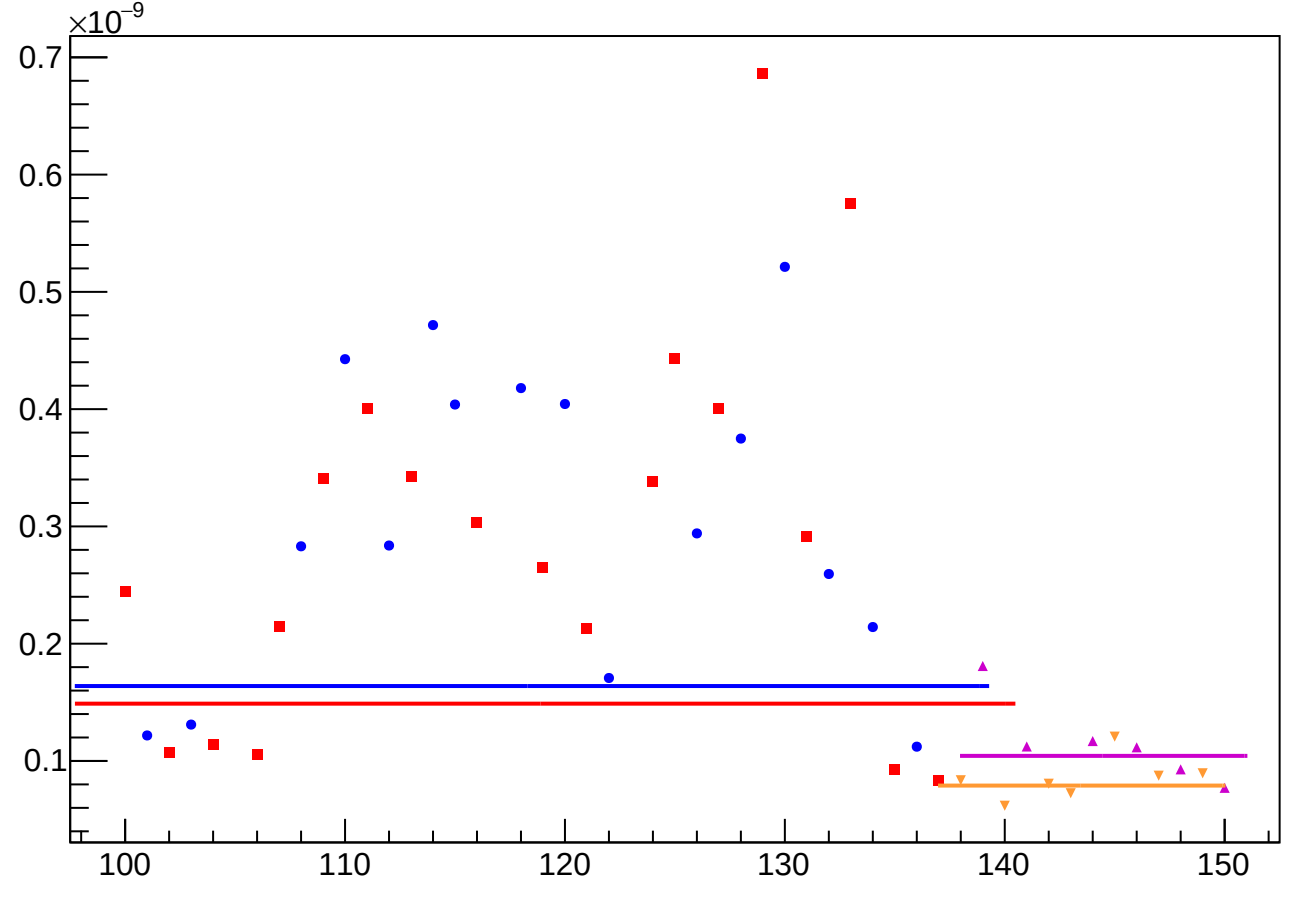
Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 411.979+/-0.089 $\chi^2$/NDF:2681424.3/21

Out: 388.484+/-0.087 $\chi^2$/NDF:4434090.4/25

All: 400.017+/-0.062 $\chi^2$/NDF: 7151138.9/47


asym_atr2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 21.3/15
Left Out: 0.000+/-0.000 χ²/NDF:5.1/6
Right Out: -0.000+/-0.000 χ²/NDF: 19.4/18
Left In: -0.000+/-0.000 χ²/NDF:8.3/5
Left: 0.000+/-0.000 χ²/NDF: 13.4/12
Right: -0.000+/-0.000 χ²/NDF: 41.9/34
In: -0.000+/-0.000 χ²/NDF:31.5/21
Out: 0.000+/-0.000 χ²/NDF:24.7/25
All: -0.000+/-0.000 χ²/NDF: 56.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2011207.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:239897.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2846265.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:363965.4/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 837948.1/12

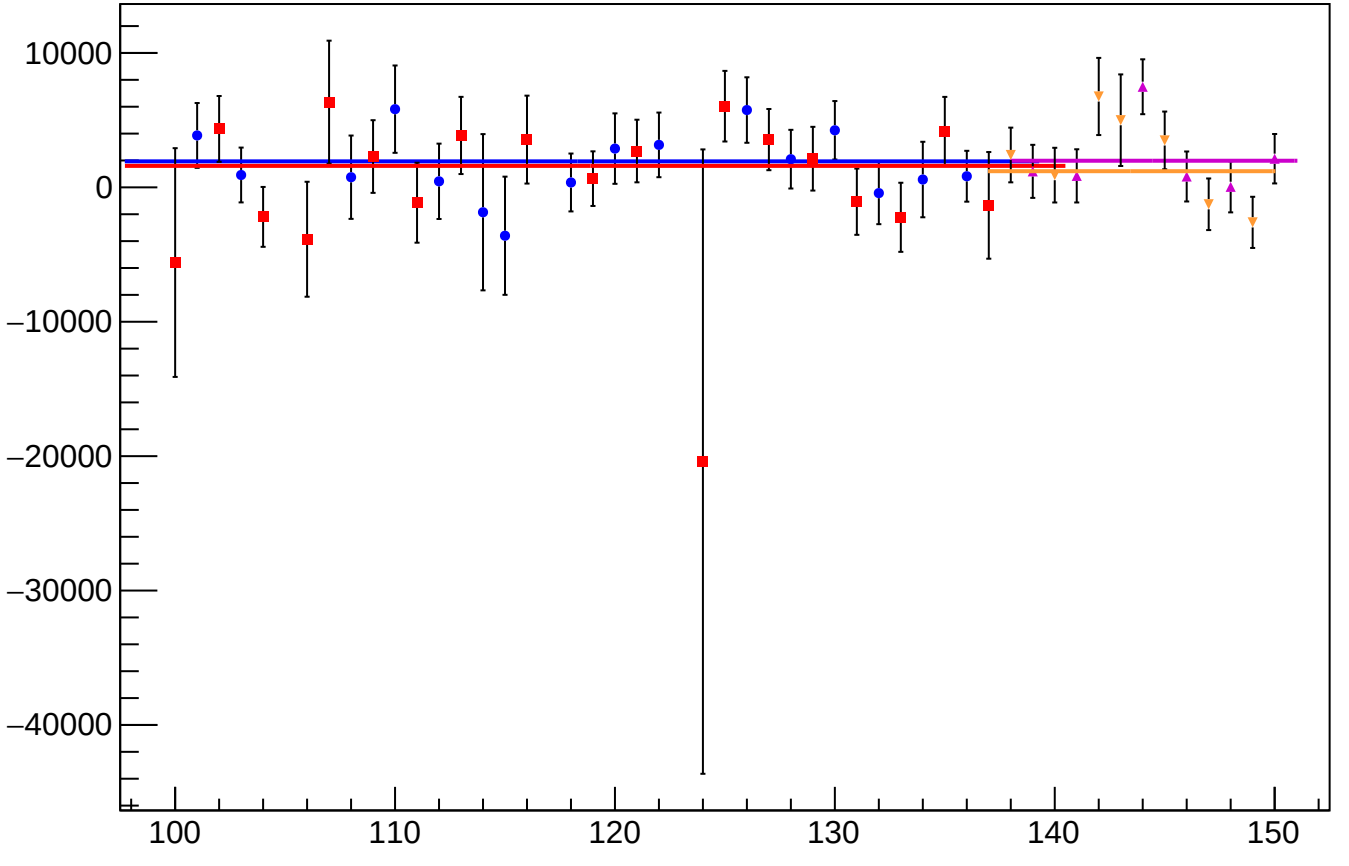
Right: 0.000+/-0.000 $\chi^2$/NDF: 4888401.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3020794.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4159470.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7557538.1/47

# reg_asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1934.755+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 1202.463+/-829.256 $\chi^2$/NDF:12.1/6

Right Out: 1597.959+/-642.207 $\chi^2$/NDF: 19.4/18

Left In: 1980.238+/-787.318 $\chi^2$/NDF:9.2/5

Left: 1611.515+/-570.968 $\chi^2$/NDF: 21.8/12

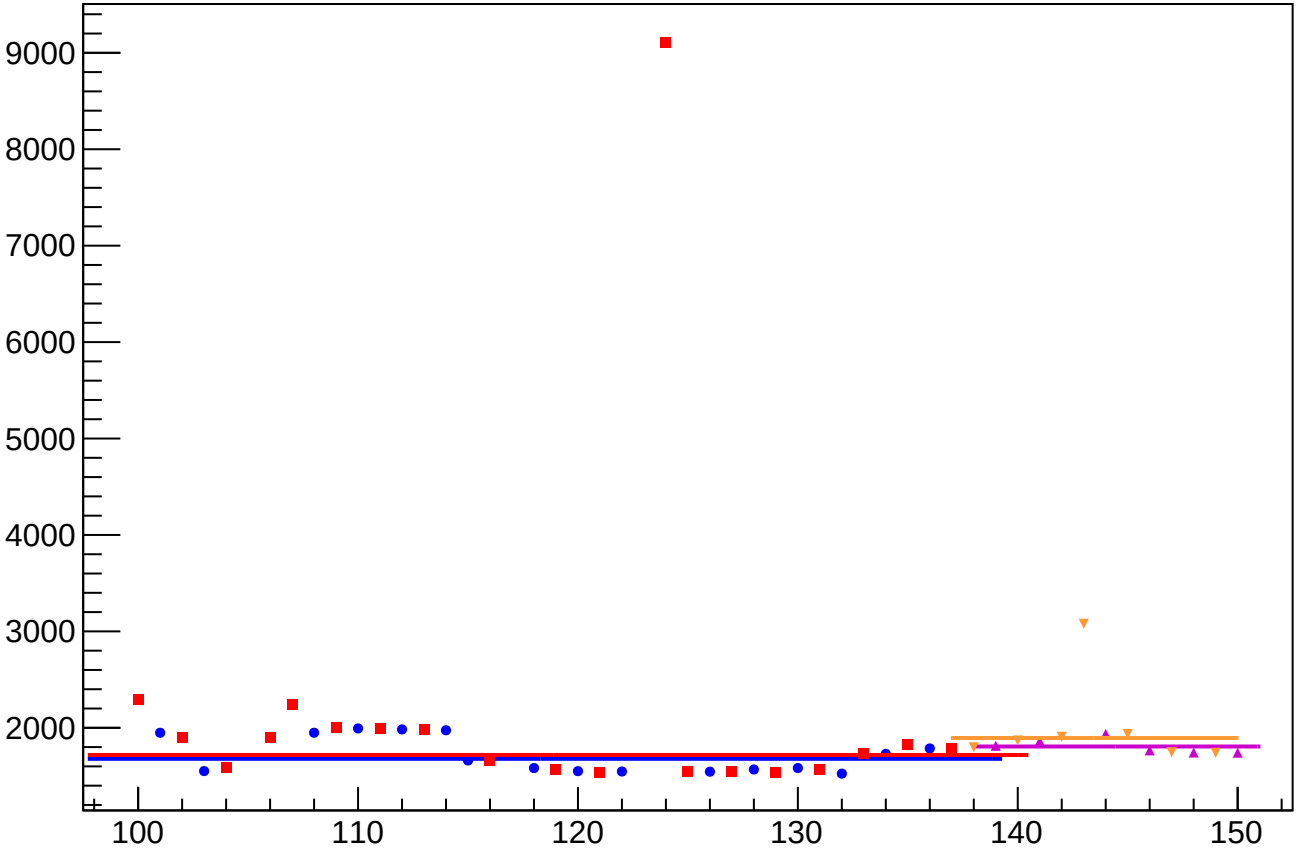
Right: 1770.157+/-448.956 $\chi^2$/NDF: 30.4/34

In: 1952.437+/-490.889 $\chi^2$/NDF:20.1/21

Out: 1449.686+/-507.748 $\chi^2$/NDF:31.7/25

All: 1709.547+/-352.921 $\chi^2$/NDF: 52.3/47

# reg_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.6/15

Left Out: 1894.636+/-0.586 $\chi^2$/NDF:271981.0/6

Right Out: 1718.312+/-0.452 $\chi^2$/NDF: 383179.3/18

Left In: 1806.191+/-0.557 $\chi^2$/NDF:15350.8/5

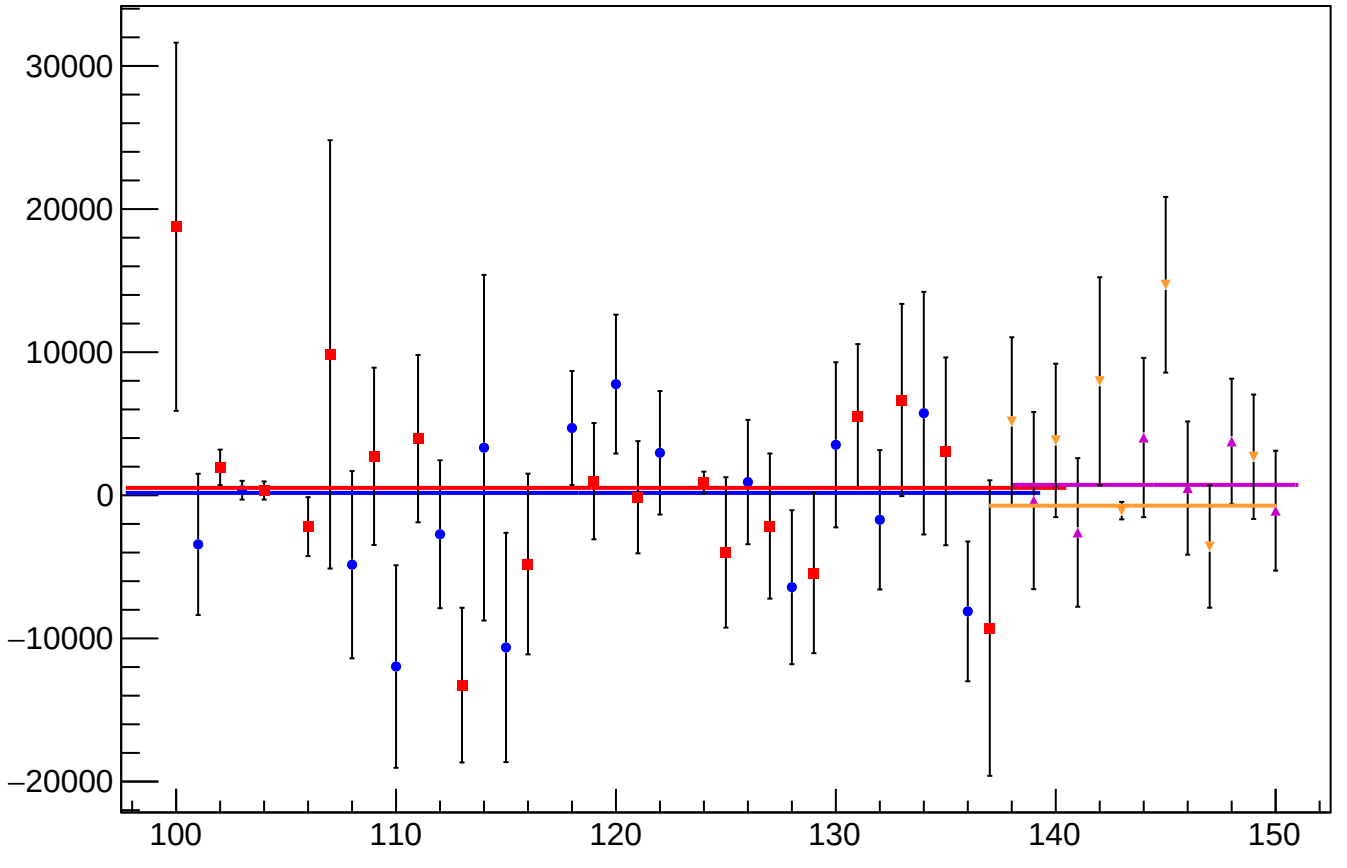
Left: 1848.120+/-0.404 $\chi^2$/NDF: 299297.1/12

Right: 1698.073+/-0.317 $\chi^2$/NDF: 528602.3/34

In: 1728.166+/-0.347 $\chi^2$/NDF:188968.5/21

Out: 1784.026+/-0.358 $\chi^2$/NDF:711883.1/25

All: 1755.236+/-0.249 $\chi^2$/NDF: 913401.9/47




Right In: 168.283+/-591.607 $\chi^2$/NDF: 15.8/15

Left Out: -724.241+/-587.133 $\chi^2$/NDF:10.9/6

Right Out: 521.080+/-424.783 $\chi^2$/NDF: 18.5/18

Left In: 729.363+/-1997.161 $\chi^2$/NDF:1.5/5

Left: -608.605+/-563.295 $\chi^2$/NDF: 12.8/12

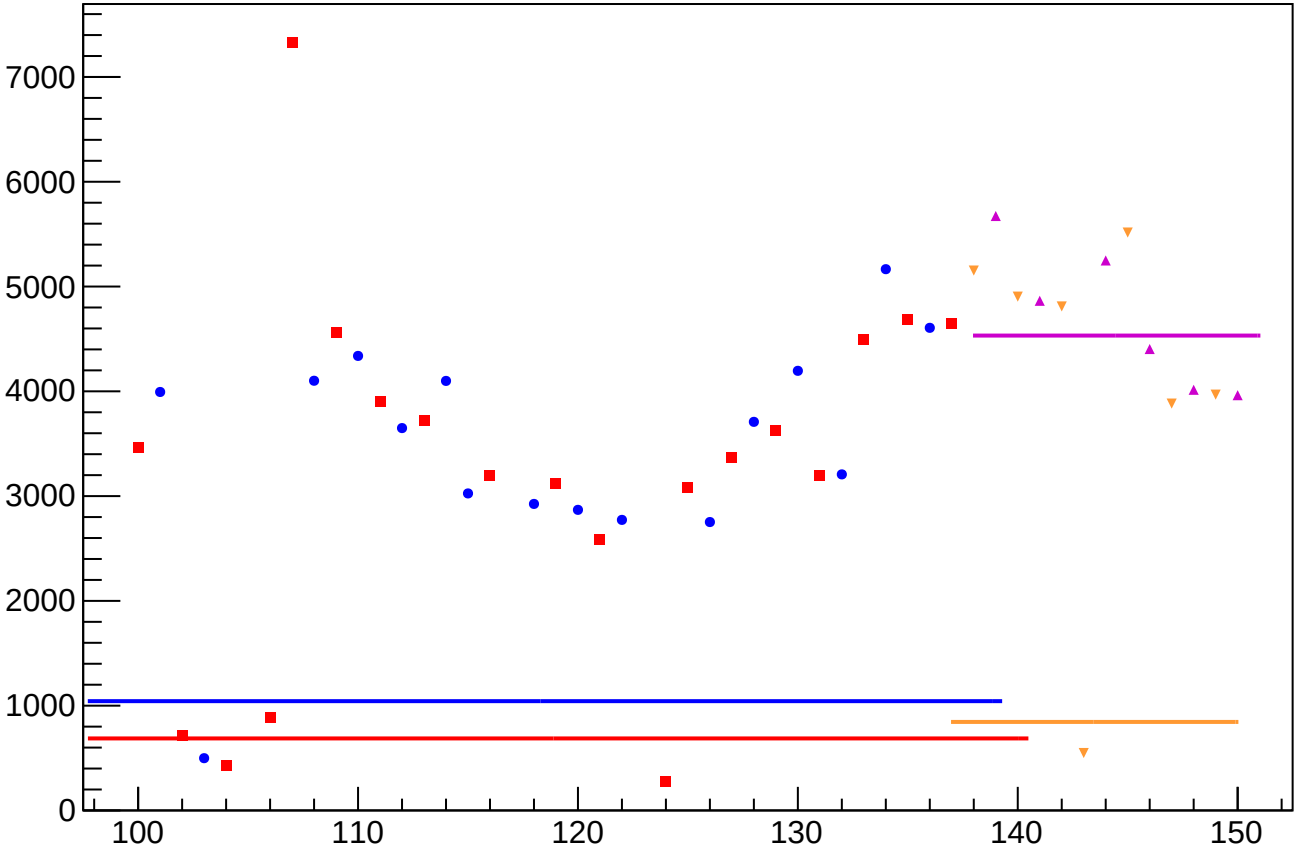
Right: 401.068+/-345.050 $\chi^2$/NDF: 34.6/34

In: 213.545+/-567.243 $\chi^2$/NDF:17.4/21

Out: 93.203+/-344.156 $\chi^2$/NDF:32.4/25

All: 125.582+/-294.236 $\chi^2$/NDF: 49.8/47

# asym_atl_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1043.117+/-0.418 $\chi^2$/NDF: 8111897.6/15

Left Out: 844.890+/-0.415 $\chi^2$/NDF:6487772.7/6

Right Out: 687.329+/-0.300 $\chi^2$/NDF: 8631529.6/18

Left In: 4532.084+/-1.412 $\chi^2$/NDF:175644.7/5

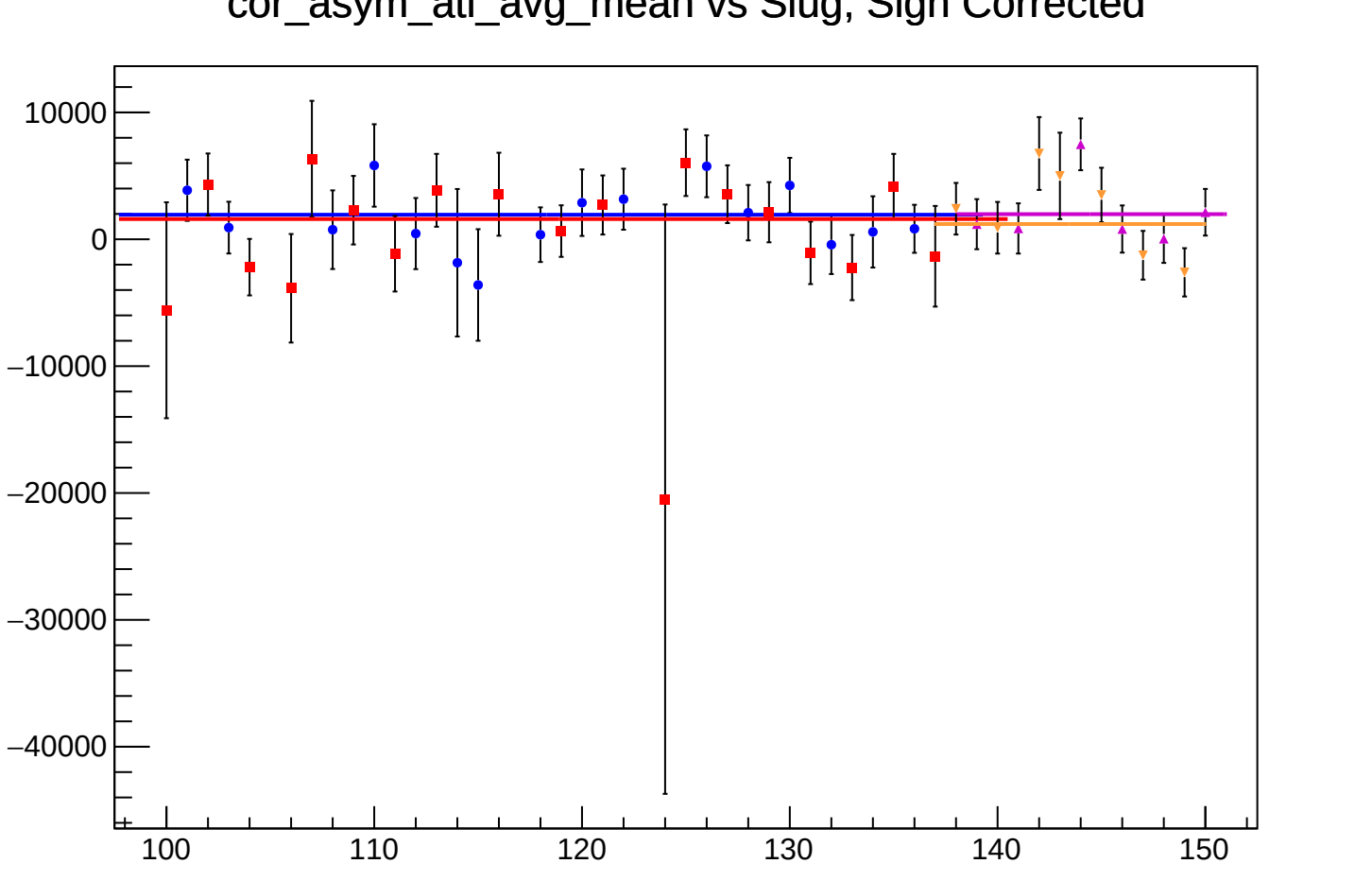
Left: 1138.210+/-0.398 $\chi^2$/NDF: 12938157.1/12

Right: 808.358+/-0.244 $\chi^2$/NDF: 17220710.7/34

In: 1324.572+/-0.401 $\chi^2$/NDF:13898917.1/21

Out: 741.465+/-0.243 $\chi^2$/NDF:15213845.6/25

All: 898.357+/-0.208 $\chi^2$/NDF: 30657548.8/47




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 1202.408+/-829.256 $\chi^2$/NDF:12.1/6

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 1980.391+/-787.318 $\chi^2$/NDF:9.2/5

Left: 1611.569+/-570.968 $\chi^2$/NDF: 21.8/12

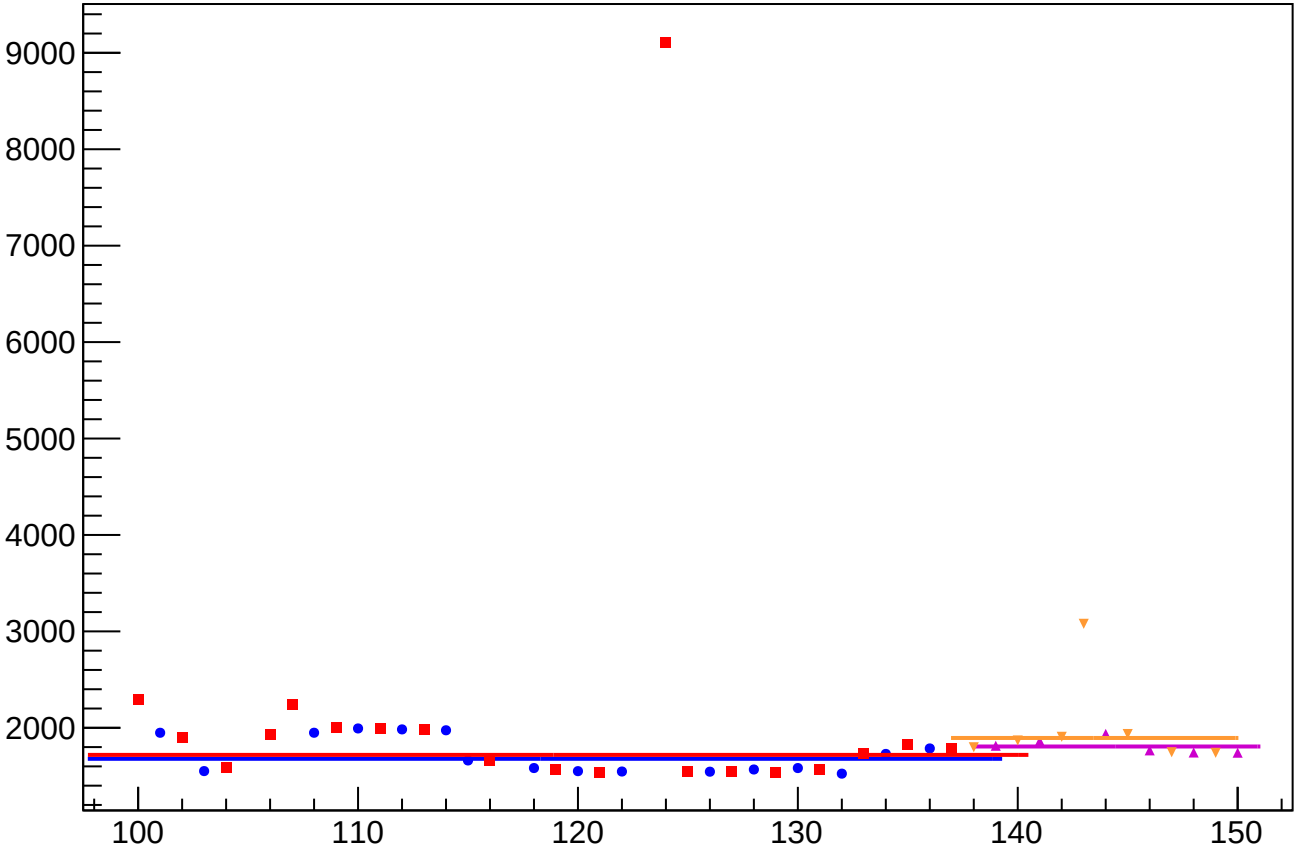
Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 1952.567+/-490.889 $\chi^2$/NDF:20.1/21

Out: 1448.140+/-507.751 $\chi^2$/NDF:31.7/25

All: 1708.868+/-352.921 $\chi^2$/NDF: 52.3/47

# cor_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1894.636+/-0.586 $\chi^2$/NDF:271981.0/6

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1806.191+/-0.557 $\chi^2$/NDF:15350.8/5

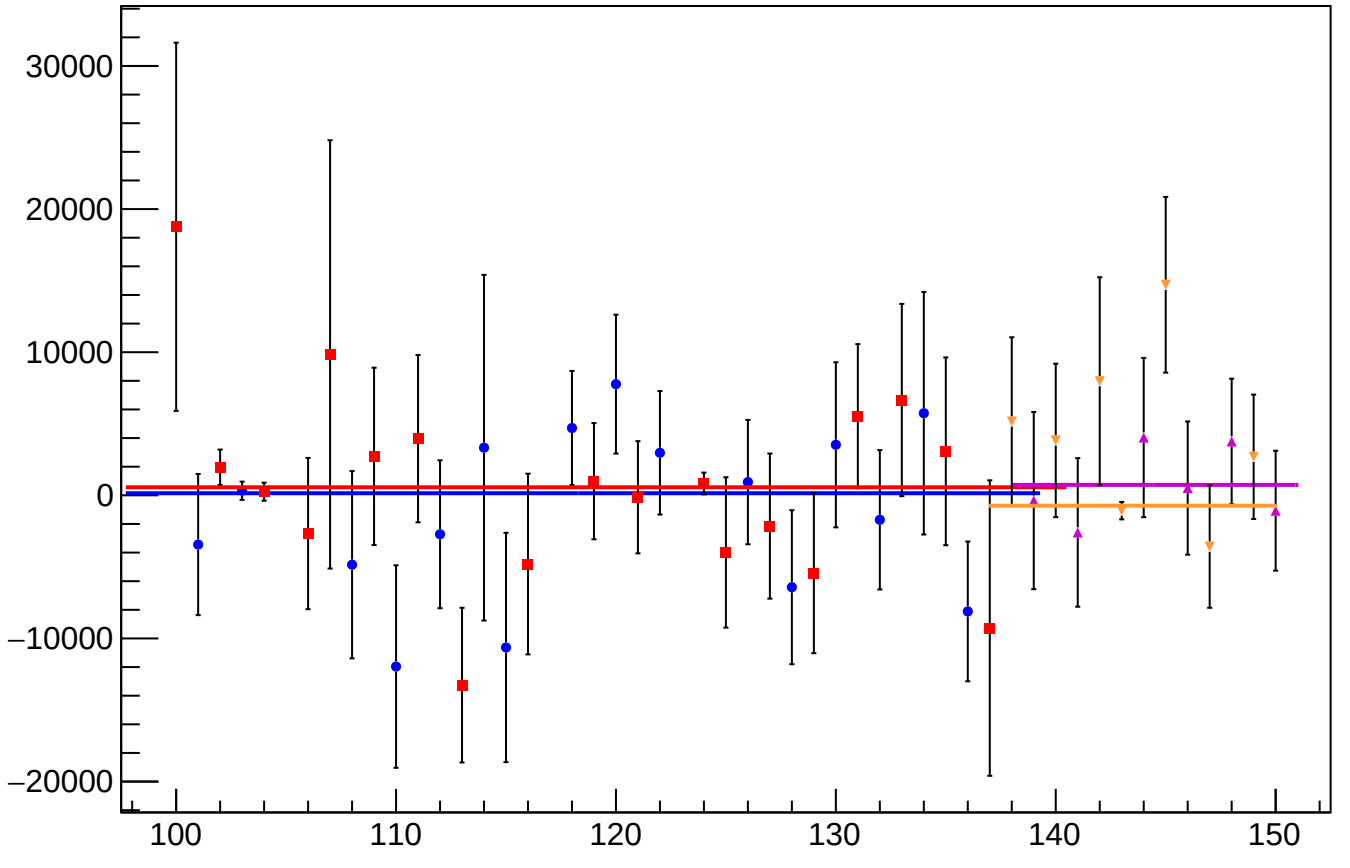
Left: 1848.120+/-0.404 $\chi^2$/NDF: 299297.1/12

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1728.165+/-0.347 $\chi^2$/NDF:188968.7/21

Out: 1784.589+/-0.358 $\chi^2$/NDF:713070.0/25

All: 1755.500+/-0.249 $\chi^2$/NDF: 914839.5/47




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -723.893+/-587.110 $\chi^2$/NDF:10.9/6

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 729.466+/-1997.157 $\chi^2$/NDF:1.5/5

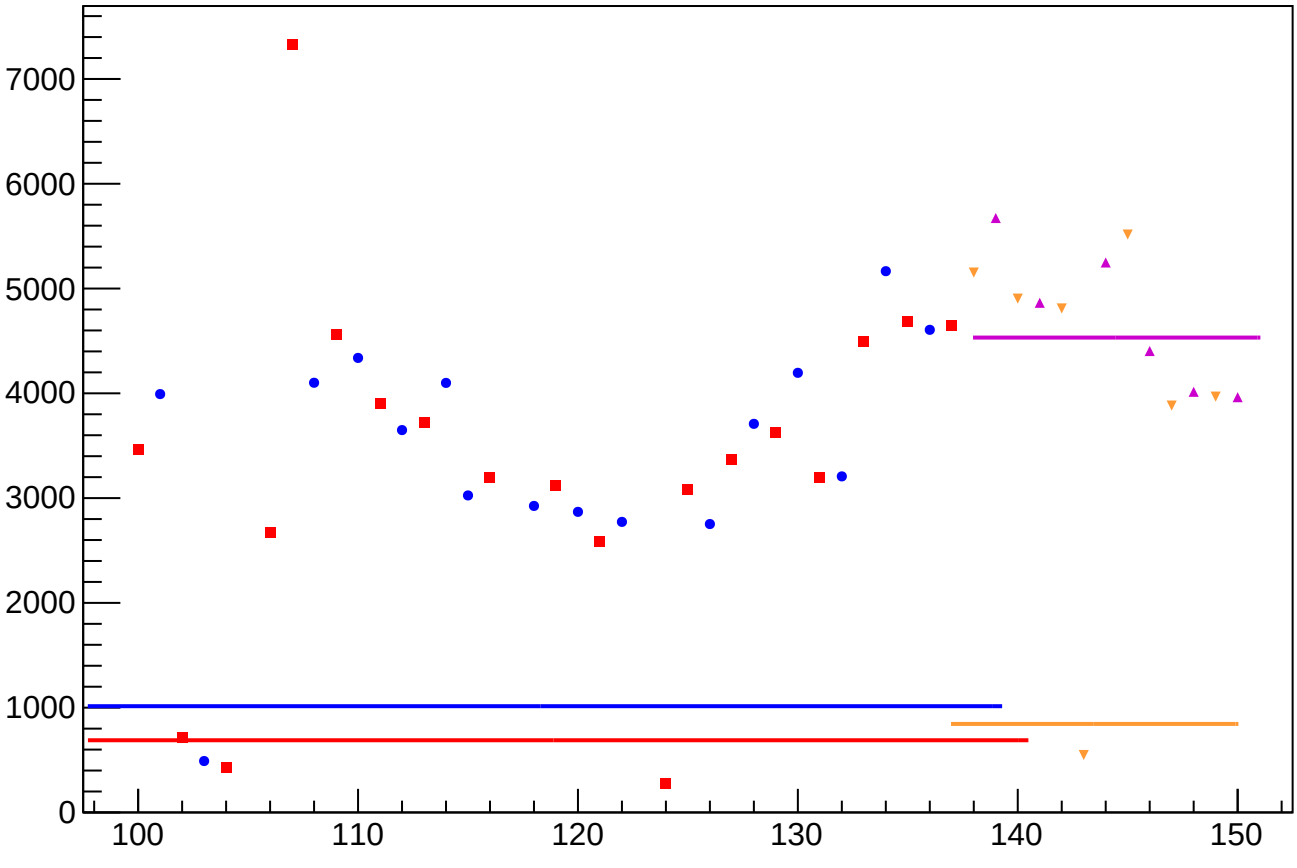
Left: -608.285+/-563.275 $\chi^2$/NDF: 12.8/12

Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 191.794+/-556.417 $\chi^2$/NDF:17.4/21

Out: 111.854+/-347.234 $\chi^2$/NDF:31.2/25

All: 134.260+/-294.579 $\chi^2$/NDF: 48.5/47




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 844.847+/-0.415 $\chi^2$/NDF:6487883.6/6

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 4532.075+/-1.412 $\chi^2$/NDF:175646.8/5

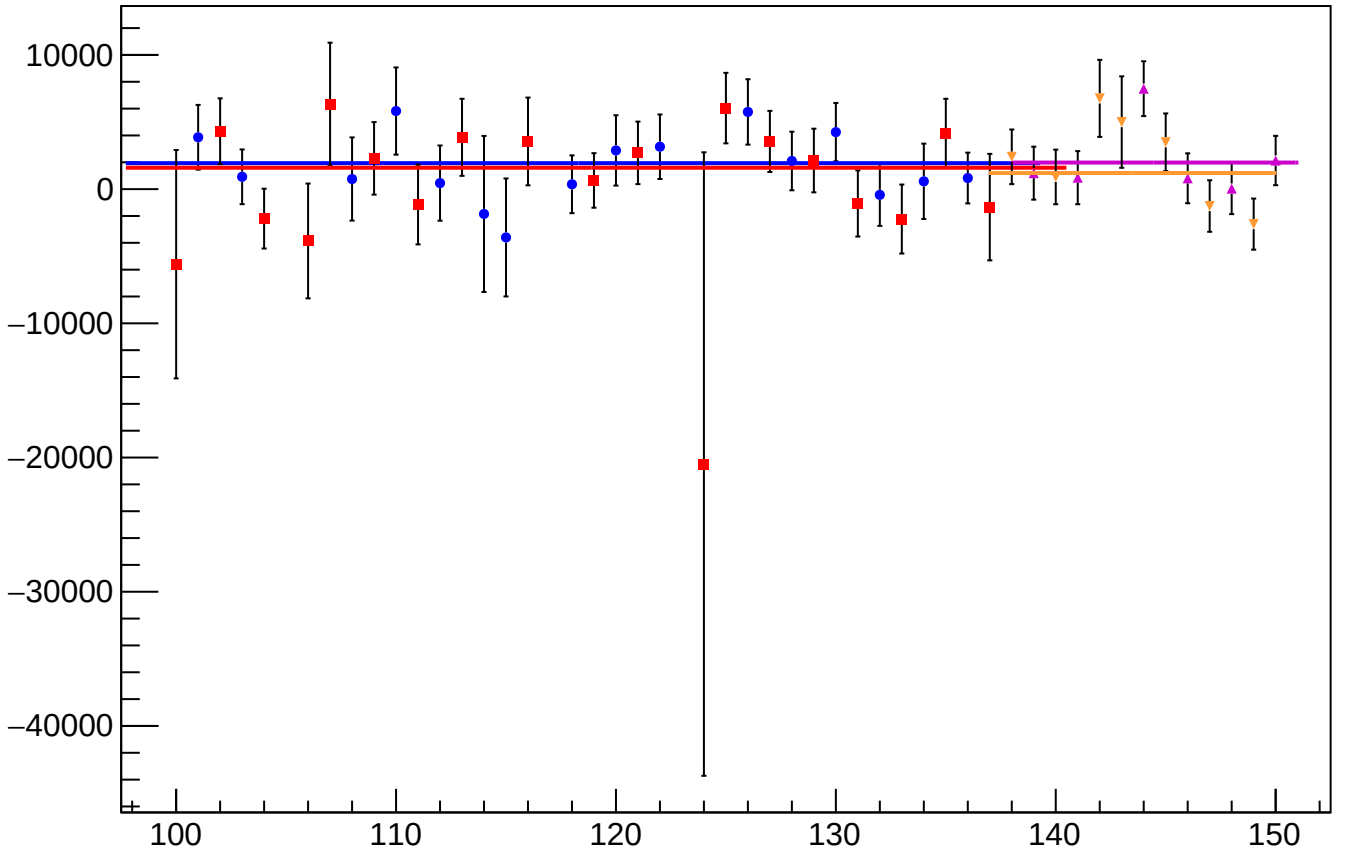
Left: 1138.151+/-0.398 $\chi^2$/NDF: 12938443.7/12

Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1287.162+/-0.393 $\chi^2$/NDF:14122697.2/21

Out: 743.549+/-0.246 $\chi^2$/NDF:15489815.2/25

All: 895.917+/-0.208 $\chi^2$/NDF: 30986451.6/47




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 1202.408+/-829.256 $\chi^2$/NDF:12.1/6

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 1980.391+/-787.318 $\chi^2$/NDF:9.2/5

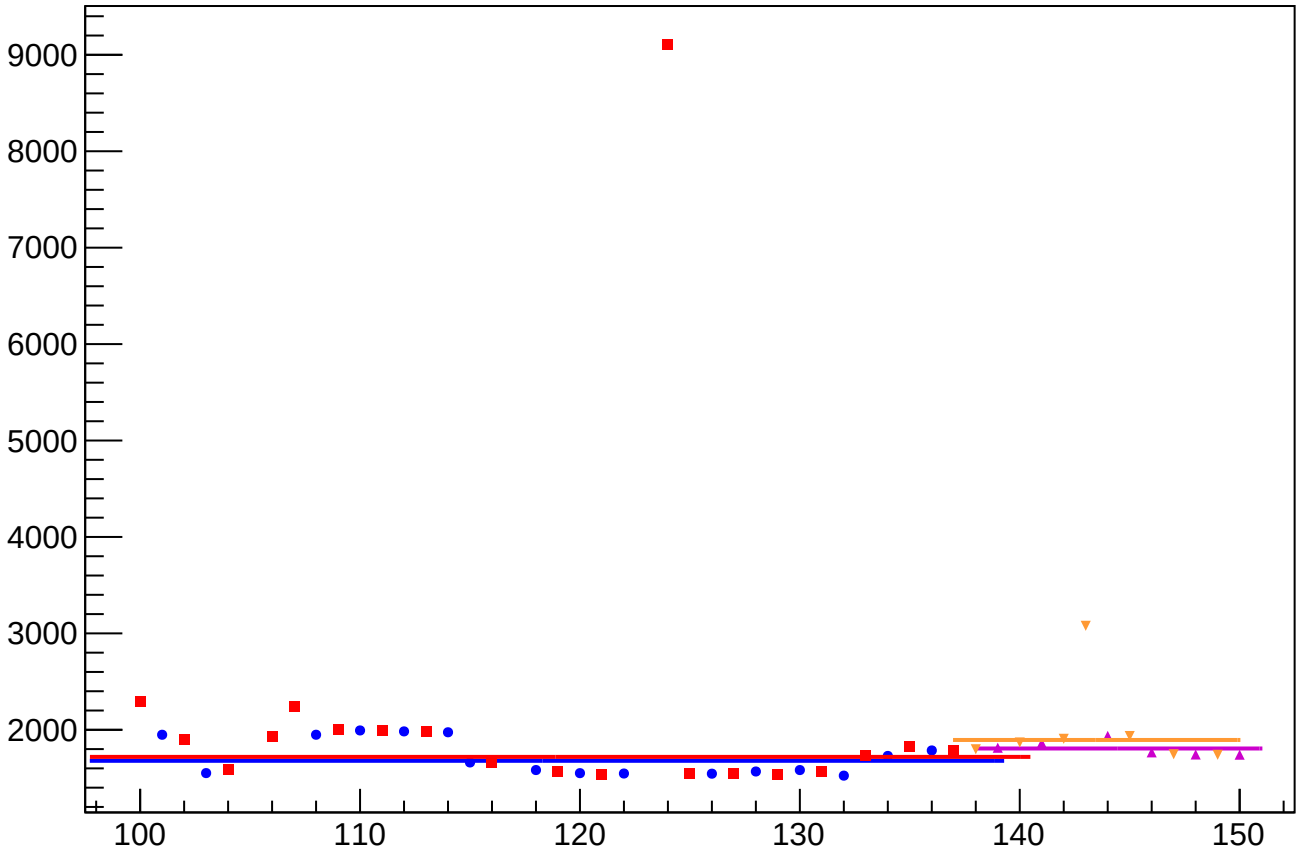
Left: 1611.569+/-570.968 $\chi^2$/NDF: 21.8/12

Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 1952.567+/-490.889 $\chi^2$/NDF:20.1/21

Out: 1448.140+/-507.751 $\chi^2$/NDF:31.7/25

All: 1708.868+/-352.921 $\chi^2$/NDF: 52.3/47




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1894.636+/-0.586 $\chi^2$/NDF:271981.0/6

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1806.191+/-0.557 $\chi^2$/NDF:15350.8/5

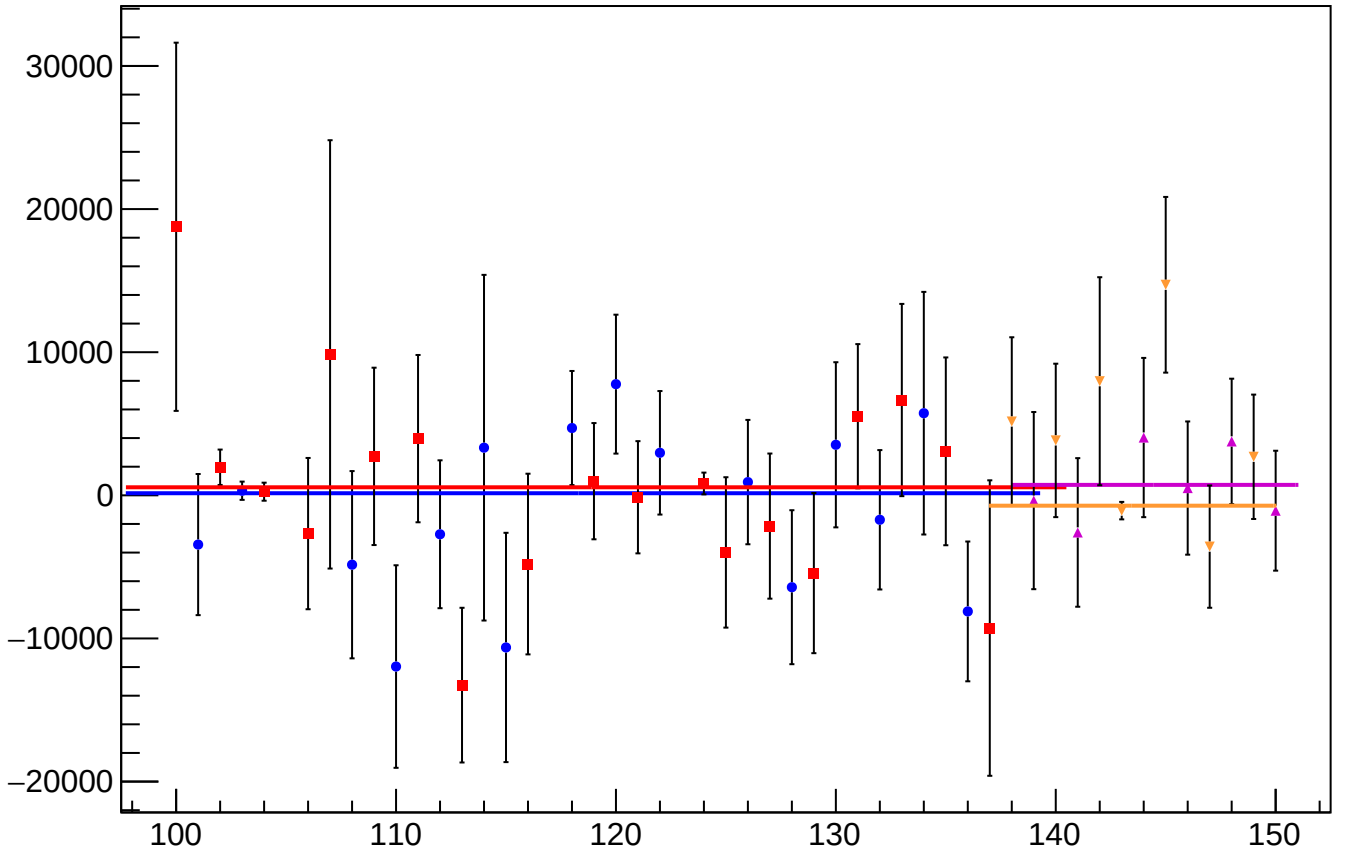
Left: 1848.120+/-0.404 $\chi^2$/NDF: 299297.1/12

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1728.165+/-0.347 $\chi^2$/NDF:188968.7/21

Out: 1784.589+/-0.358 $\chi^2$/NDF:713070.0/25

All: 1755.500+/-0.249 $\chi^2$/NDF: 914839.5/47




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -723.893+/-587.110 $\chi^2$/NDF:10.9/6

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 729.466+/-1997.157 $\chi^2$/NDF:1.5/5

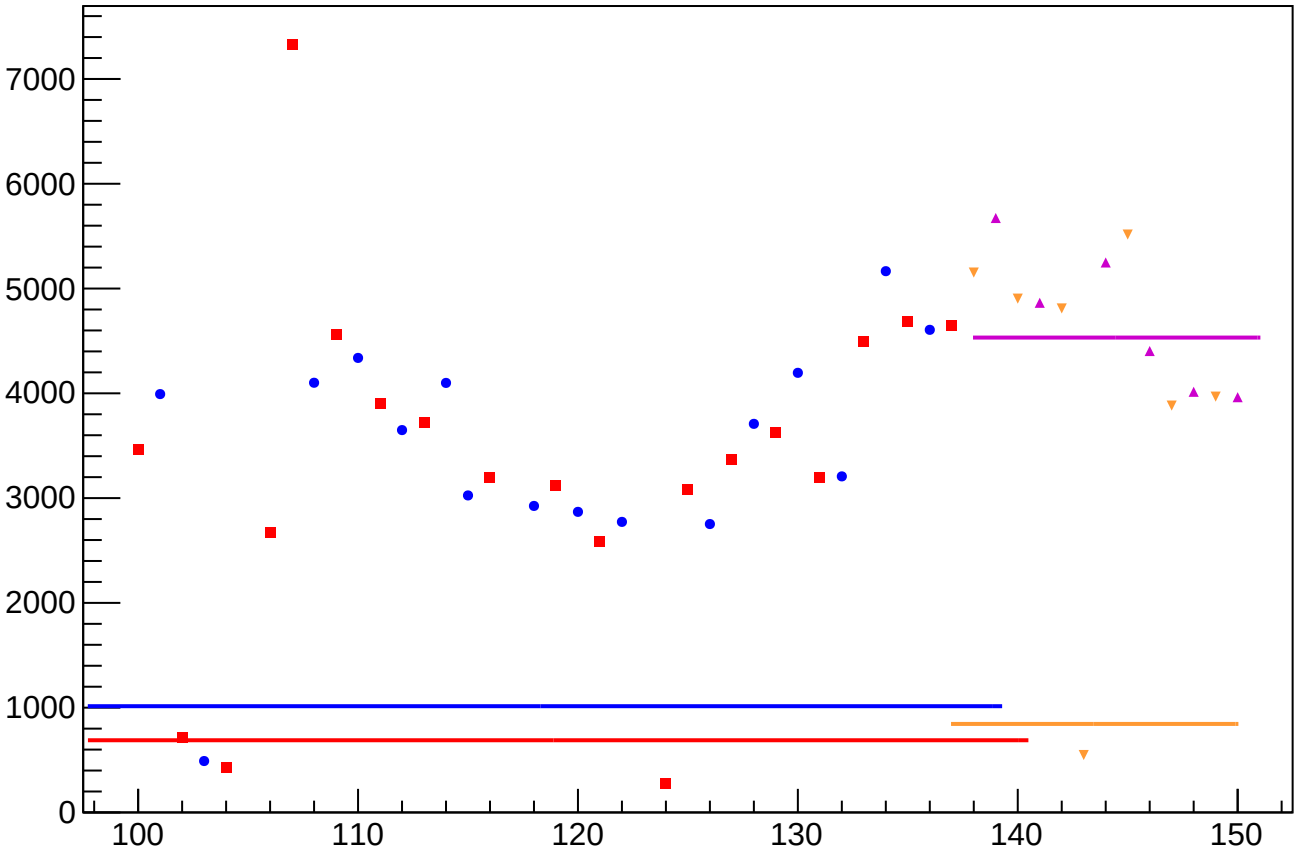
Left: -608.285+/-563.275 $\chi^2$/NDF: 12.8/12

Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 191.794+/-556.417 $\chi^2$/NDF:17.4/21

Out: 111.854+/-347.234 $\chi^2$/NDF:31.2/25

All: 134.260+/-294.579 $\chi^2$/NDF: 48.5/47




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 844.847+/-0.415 $\chi^2$/NDF:6487883.6/6

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 4532.075+/-1.412 $\chi^2$/NDF:175646.8/5

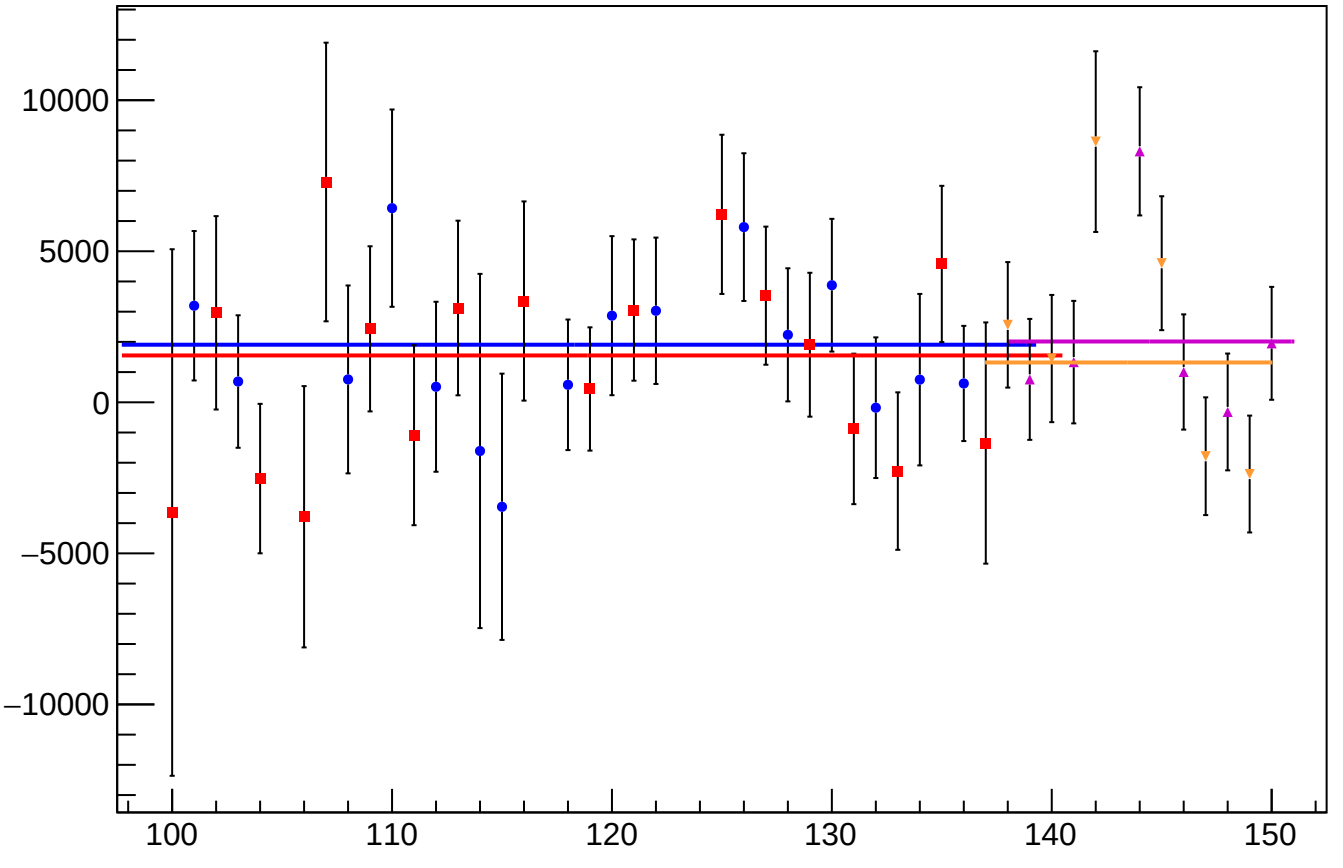
Left: 1138.151+/-0.398 $\chi^2$/NDF: 12938443.7/12

Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1287.162+/-0.393 $\chi^2$/NDF:14122697.2/21

Out: 743.549+/-0.246 $\chi^2$/NDF:15489815.2/25

All: 895.917+/-0.208 $\chi^2$/NDF: 30986451.6/47




Right In: 1906.205+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 1318.445+/-875.886 $\chi^2$/NDF:14.7/5

Right Out: 1550.986+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 2012.965+/-804.810 $\chi^2$/NDF:11.0/5

Left: 1695.023+/-592.624 $\chi^2$/NDF: 26.1/11

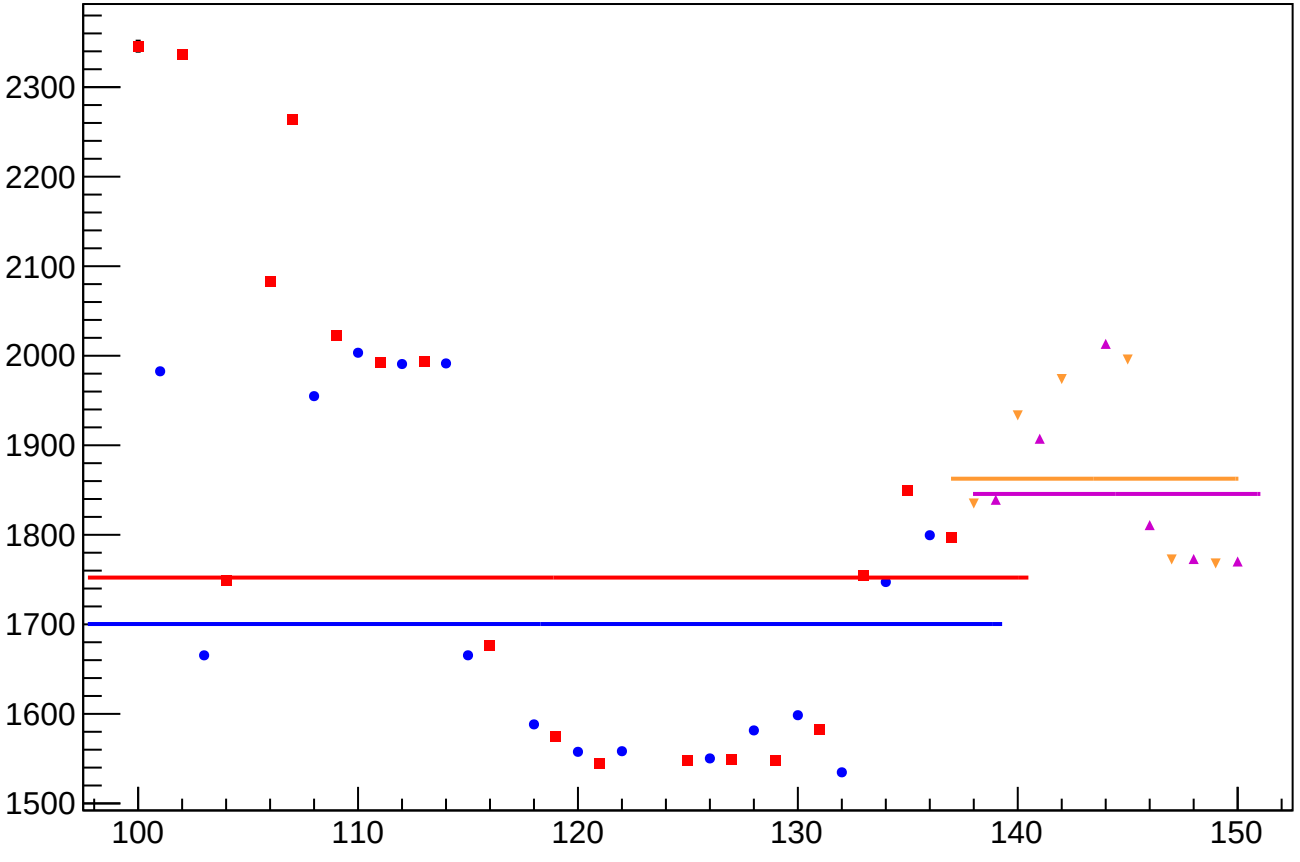
Right: 1735.334+/-458.483 $\chi^2$/NDF: 27.8/33

In: 1947.280+/-499.207 $\chi^2$/NDF:21.3/21

Out: 1466.597+/-527.644 $\chi^2$/NDF:32.2/23

All: 1720.240+/-362.629 $\chi^2$/NDF: 53.9/45

# dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.2/15

Left Out: 1862.670+/-0.619 $\chi^2$/NDF:21675.3/5

Right Out: 1752.239+/-0.466 $\chi^2$/NDF: 247952.8/17

Left In: 1845.651+/-0.569 $\chi^2$/NDF:21104.4/5

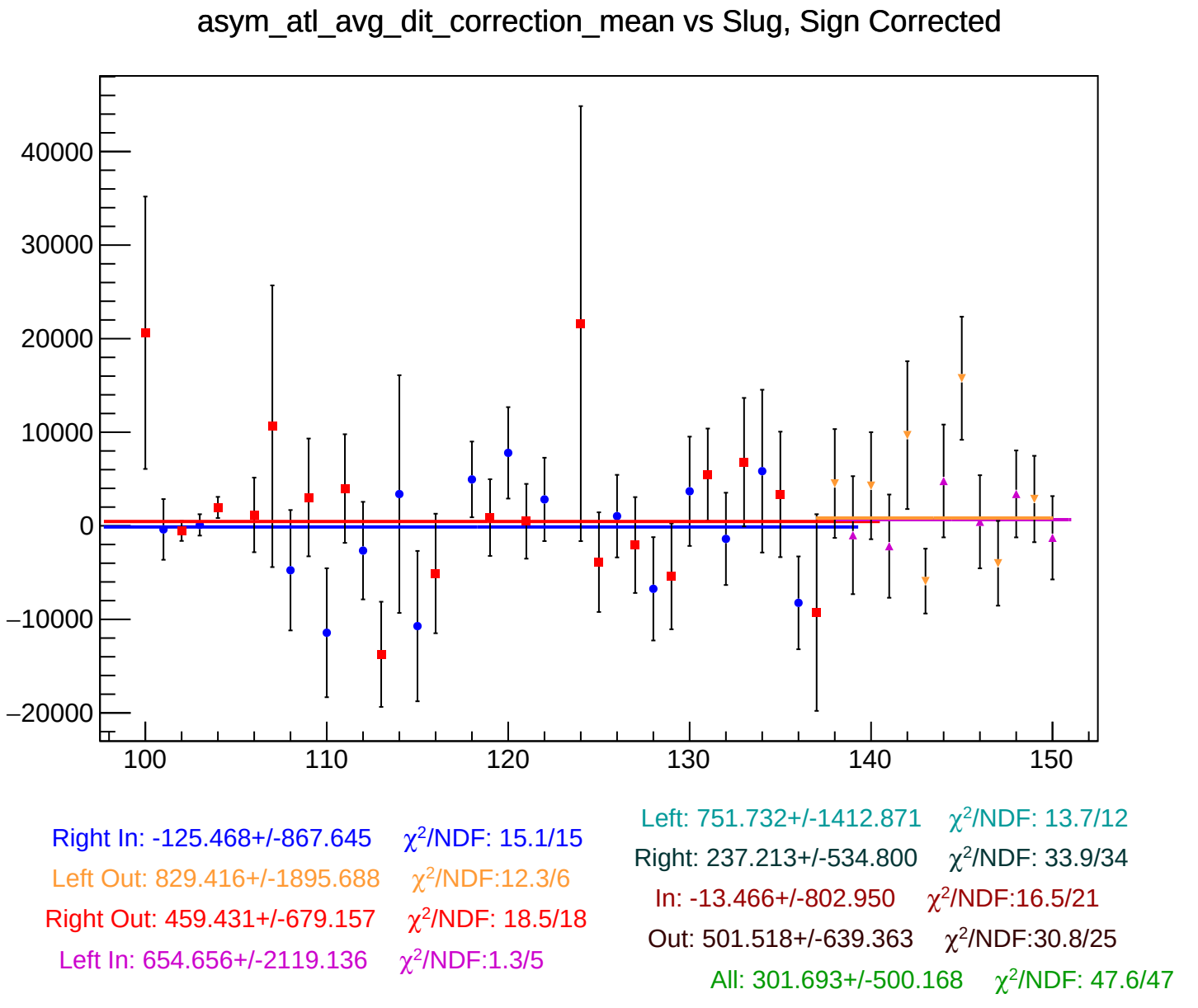
Left: 1853.442+/-0.419 $\chi^2$/NDF: 43189.2/11

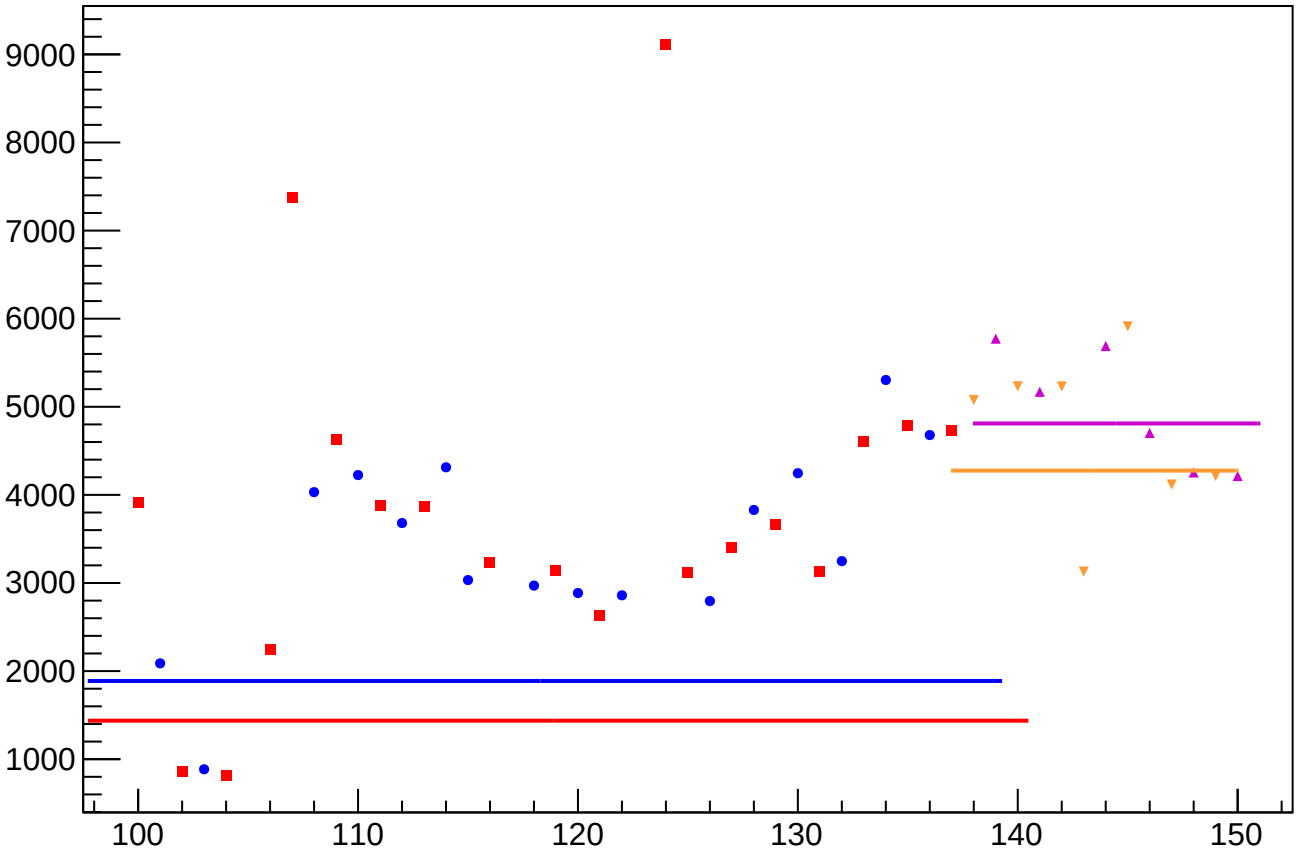
Right: 1725.373+/-0.324 $\chi^2$/NDF: 389780.4/33

In: 1756.258+/-0.353 $\chi^2$/NDF:196628.1/21

Out: 1792.198+/-0.373 $\chi^2$/NDF:289916.5/23

All: 1773.260+/-0.256 $\chi^2$/NDF: 491448.4/45


asym_atl_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
Right In: -125.468+/-867.645 χ²/NDF: 15.1/15
Left Out: 829.416+/-1895.688 χ²/NDF:12.3/6
Right Out: 459.431+/-679.157 χ²/NDF: 18.5/18
Left In: 654.656+/-2119.136 χ²/NDF:1.3/5
Left: 751.732+/-1412.871 χ²/NDF: 13.7/12
Right: 237.213+/-534.800 χ²/NDF: 33.9/34
In: -13.466+/-802.950 χ²/NDF:16.5/21
Out: 501.518+/-639.363 χ²/NDF:30.8/25
All: 301.693+/-500.168 χ²/NDF: 47.6/47




Right In: 1887.999+/-0.614 $\chi^2$/NDF: 4425691.6/15

Left Out: 4275.799+/-1.340 $\chi^2$/NDF:468600.7/6

Right Out: 1437.108+/-0.480 $\chi^2$/NDF: 5964193.5/18

Left In: 4810.662+/-1.498 $\chi^2$/NDF:163131.6/5

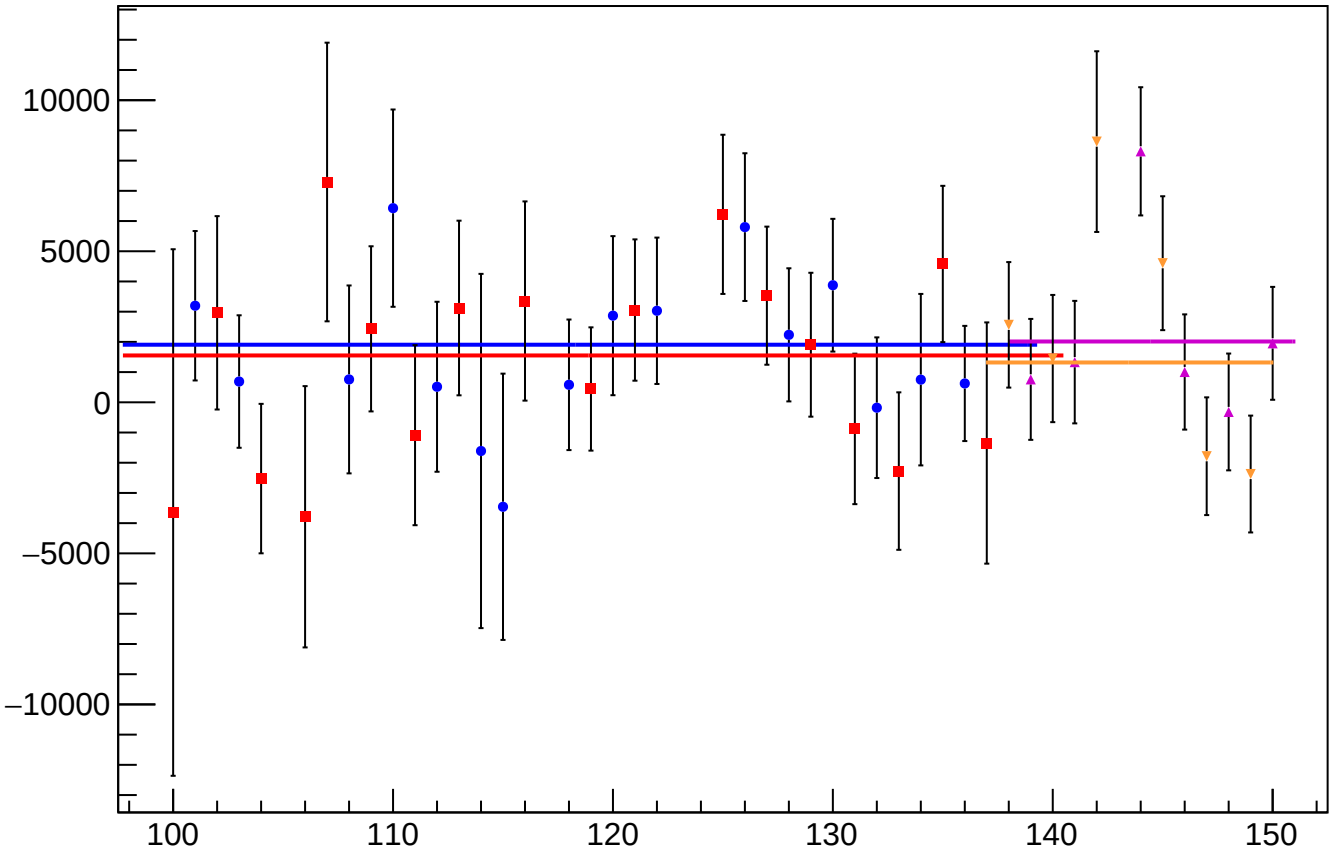
Left: 4513.554+/-0.999 $\chi^2$/NDF: 702505.7/12

Right: 1608.413+/-0.378 $\chi^2$/NDF: 10724797.8/34

In: 2307.601+/-0.568 $\chi^2$/NDF:7846909.0/21

Out: 1760.017+/-0.452 $\chi^2$/NDF:10407338.9/25

All: 1972.491+/-0.354 $\chi^2$/NDF: 18823483.6/4




Right In: 1906.203+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 1318.456+/-875.887 $\chi^2$/NDF:14.7/5

Right Out: 1550.983+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 2012.966+/-804.811 $\chi^2$/NDF:11.0/5

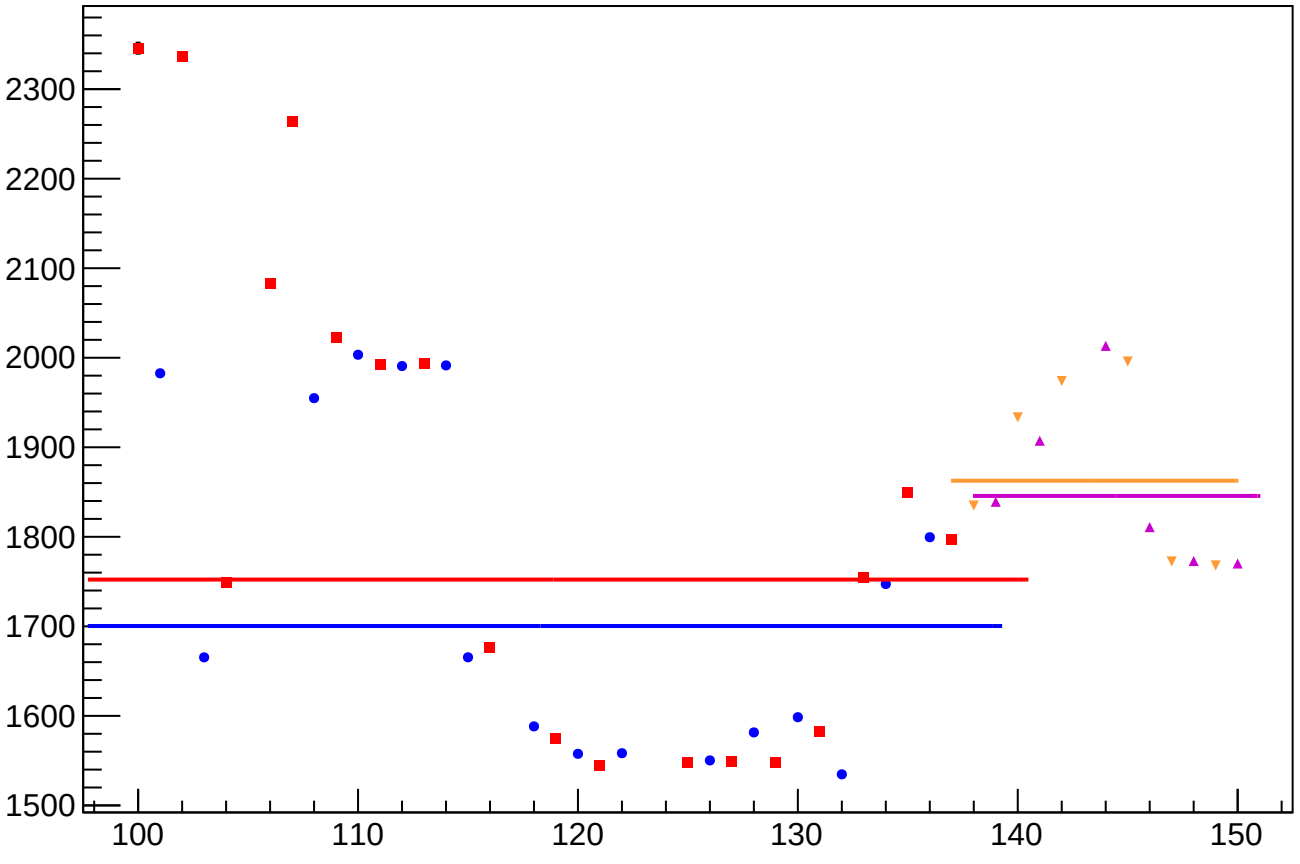
Left: 1695.029+/-592.624 $\chi^2$/NDF: 26.1/11

Right: 1735.331+/-458.483 $\chi^2$/NDF: 27.8/33

In: 1947.280+/-499.207 $\chi^2$/NDF:21.3/21

Out: 1466.599+/-527.644 $\chi^2$/NDF:32.2/23

All: 1720.241+/-362.629 $\chi^2$/NDF: 53.9/45




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.5/15

Left Out: 1862.671+/-0.619 $\chi^2$/NDF:21675.9/5

Right Out: 1752.238+/-0.466 $\chi^2$/NDF: 247952.3/17

Left In: 1845.652+/-0.569 $\chi^2$/NDF:21104.7/5

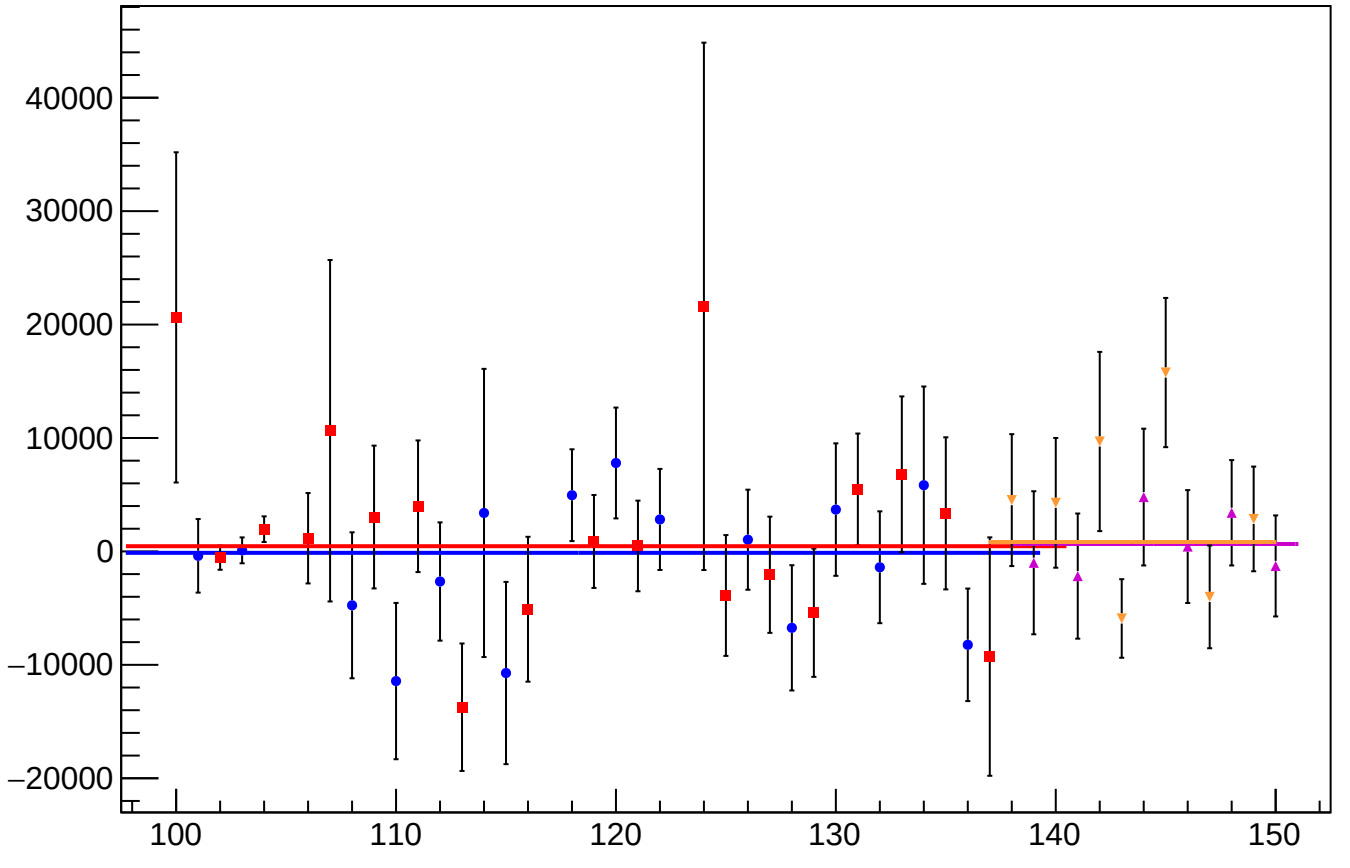
Left: 1853.443+/-0.419 $\chi^2$/NDF: 43190.0/11

Right: 1725.372+/-0.324 $\chi^2$/NDF: 389780.1/33

In: 1756.258+/-0.353 $\chi^2$/NDF:196629.3/21

Out: 1792.198+/-0.373 $\chi^2$/NDF:289917.1/23

All: 1773.260+/-0.256 $\chi^2$/NDF: 491450.1/45




Right In: -125.464+/-867.639 $\chi^2$/NDF: 15.1/15

Left Out: 829.411+/-1895.690 $\chi^2$/NDF:12.3/6

Right Out: 459.430+/-679.152 $\chi^2$/NDF: 18.5/18

Left In: 654.658+/-2119.139 $\chi^2$/NDF:1.3/5

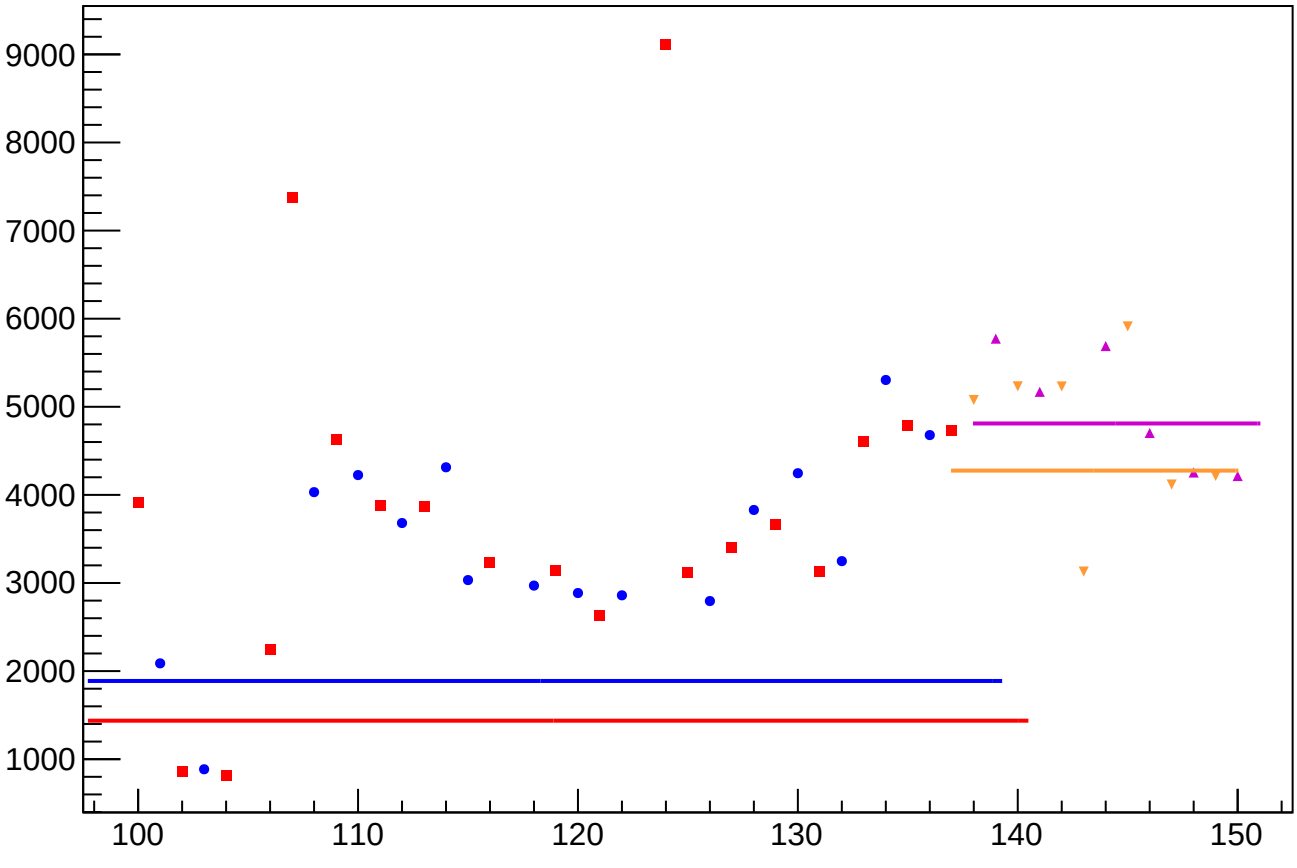
Left: 751.730+/-1412.873 $\chi^2$/NDF: 13.7/12

Right: 237.214+/-534.797 $\chi^2$/NDF: 33.9/34

In: -13.464+/-802.946 $\chi^2$/NDF:16.5/21

Out: 501.516+/-639.359 $\chi^2$/NDF:30.8/25

All: 301.693+/-500.165 $\chi^2$/NDF: 47.6/47




Right In: 1887.982+/-0.614 $\chi^2$/NDF: 4425728.6/15

Left Out: 4275.802+/-1.340 $\chi^2$/NDF:468605.3/6

Right Out: 1437.095+/-0.480 $\chi^2$/NDF: 5964228.2/18

Left In: 4810.667+/-1.498 $\chi^2$/NDF:163134.2/5

Left: 4513.558+/-0.999 $\chi^2$/NDF: 702513.3/12

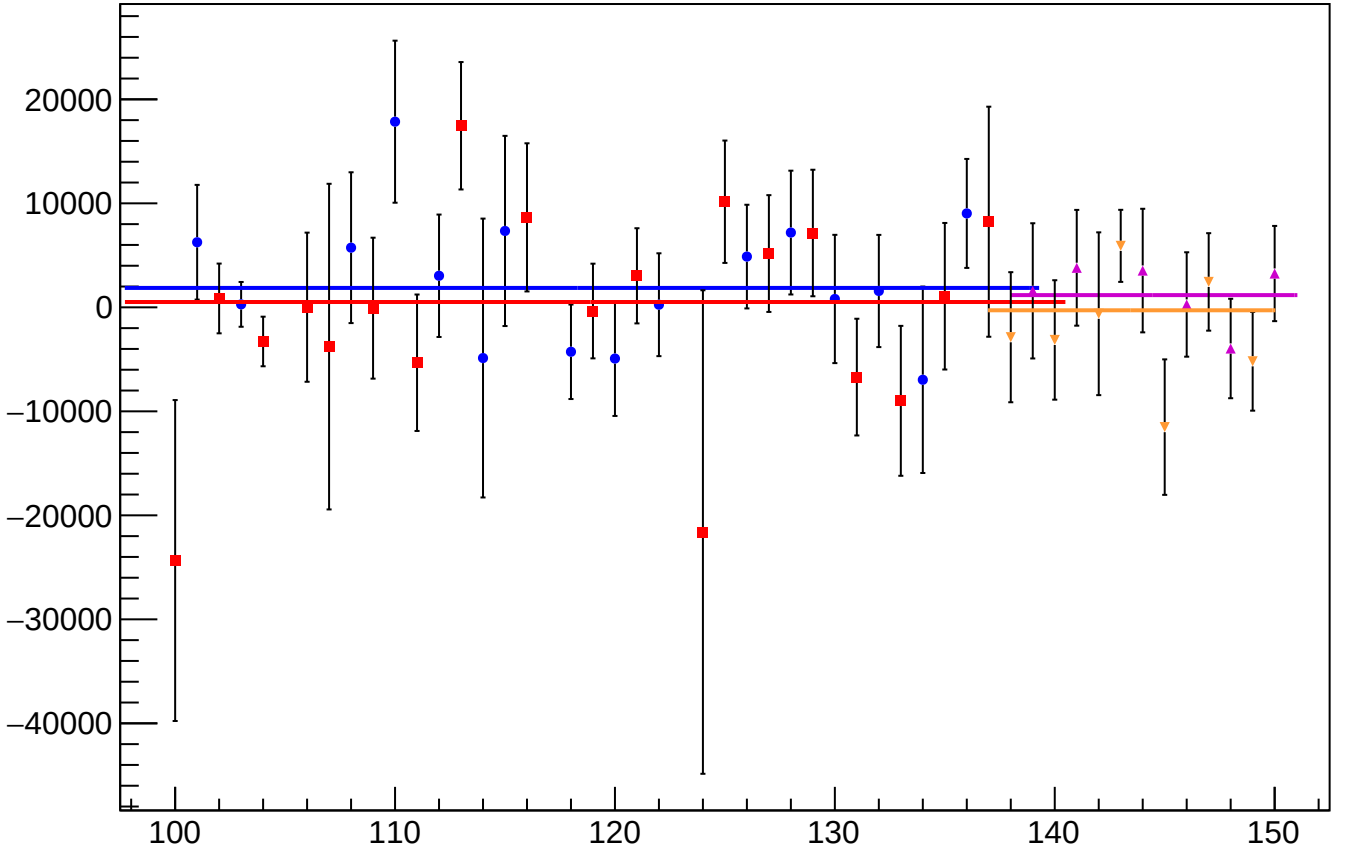
Right: 1608.398+/-0.378 $\chi^2$/NDF: 10724869.8/34

In: 2307.582+/-0.568 $\chi^2$/NDF:7846996.2/21

Out: 1760.000+/-0.452 $\chi^2$/NDF:10407425.1/25

All: 1972.473+/-0.354 $\chi^2$/NDF: 18823658.6/4

# asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1866.618+/-1259.187 $\chi^2$/NDF: 13.8/15

Left Out: -284.199+/-1927.987 $\chi^2$/NDF:8.0/6

Right Out: 512.528+/-1241.513 $\chi^2$/NDF: 24.7/18

Left In: 1175.606+/-2154.629 $\chi^2$/NDF:1.8/5

Left: 364.913+/-1436.762 $\chi^2$/NDF: 10.0/12

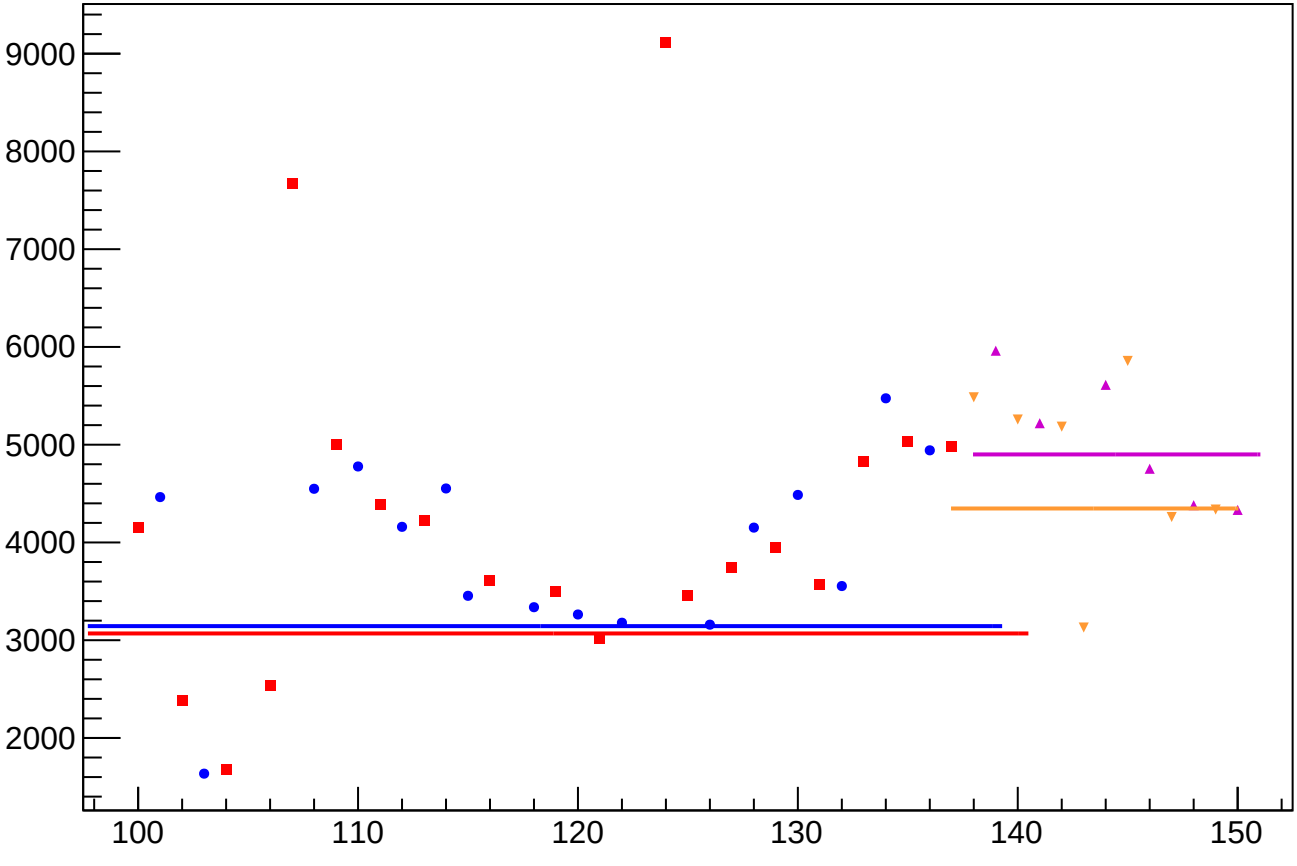
Right: 1180.003+/-884.065 $\chi^2$/NDF: 39.1/34

In: 1690.697+/-1087.150 $\chi^2$/NDF:15.7/21

Out: 278.993+/-1043.819 $\chi^2$/NDF:32.8/25

All: 956.151+/-752.944 $\chi^2$/NDF: 49.3/47

# asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 3144.136+/-0.890 $\chi^2$/NDF: 1883139.2/15

Left Out: 4347.443+/-1.363 $\chi^2$/NDF:494490.9/6

Right Out: 3069.098+/-0.864 $\chi^2$/NDF: 1881644.6/18

Left In: 4900.451+/-1.524 $\chi^2$/NDF:144591.2/5

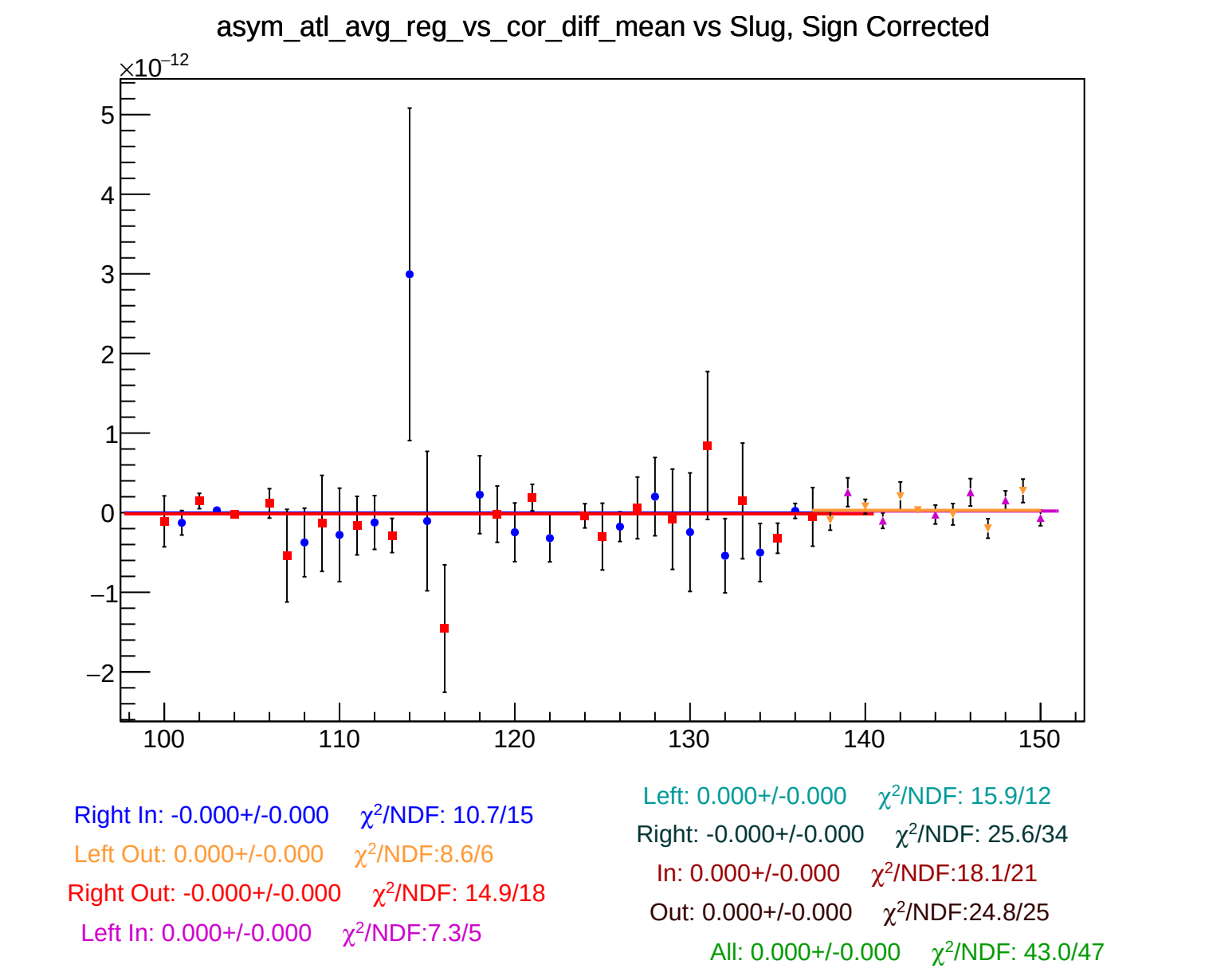
Left: 4593.342+/-1.016 $\chi^2$/NDF: 712247.9/12

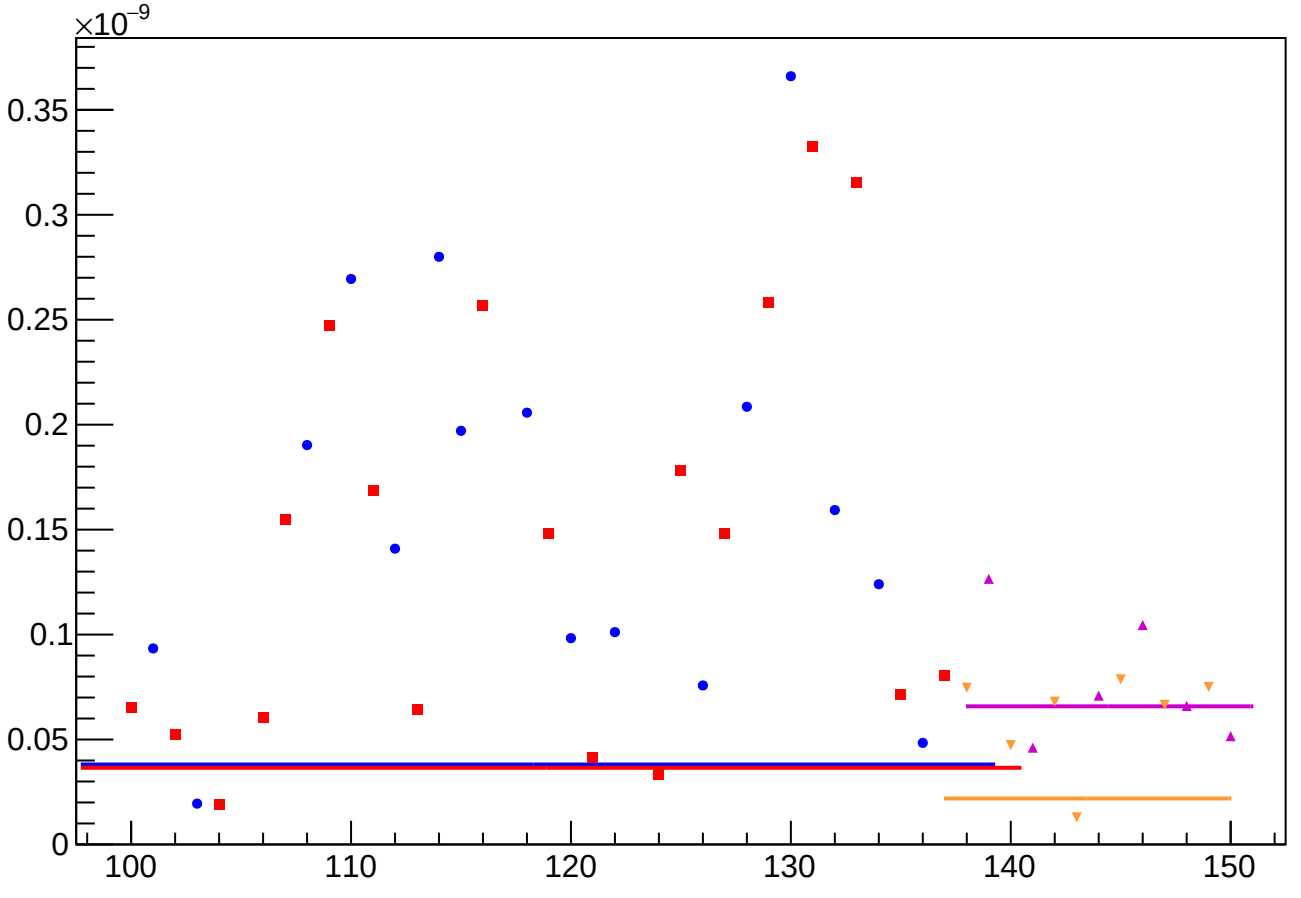
Right: 3105.498+/-0.620 $\chi^2$/NDF: 3768440.9/34

In: 3591.267+/-0.769 $\chi^2$/NDF:3018306.9/21

Out: 3435.539+/-0.730 $\chi^2$/NDF:3003354.5/25

All: 3509.371+/-0.529 $\chi^2$/NDF: 6043242.8/47


asym_atl_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
5
4
3
2
1
0
−1
−2
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 10.7/15
Left Out: 0.000+/-0.000 χ²/NDF:8.6/6
Right Out: -0.000+/-0.000 χ²/NDF: 14.9/18
Left In: 0.000+/-0.000 χ²/NDF:7.3/5
Left: 0.000+/-0.000 χ²/NDF: 15.9/12
Right: -0.000+/-0.000 χ²/NDF: 25.6/34
In: 0.000+/-0.000 χ²/NDF:18.1/21
Out: 0.000+/-0.000 χ²/NDF:24.8/25
All: 0.000+/-0.000 χ²/NDF: 43.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2888502.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1827854.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2683451.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:456055.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 3632905.5/12

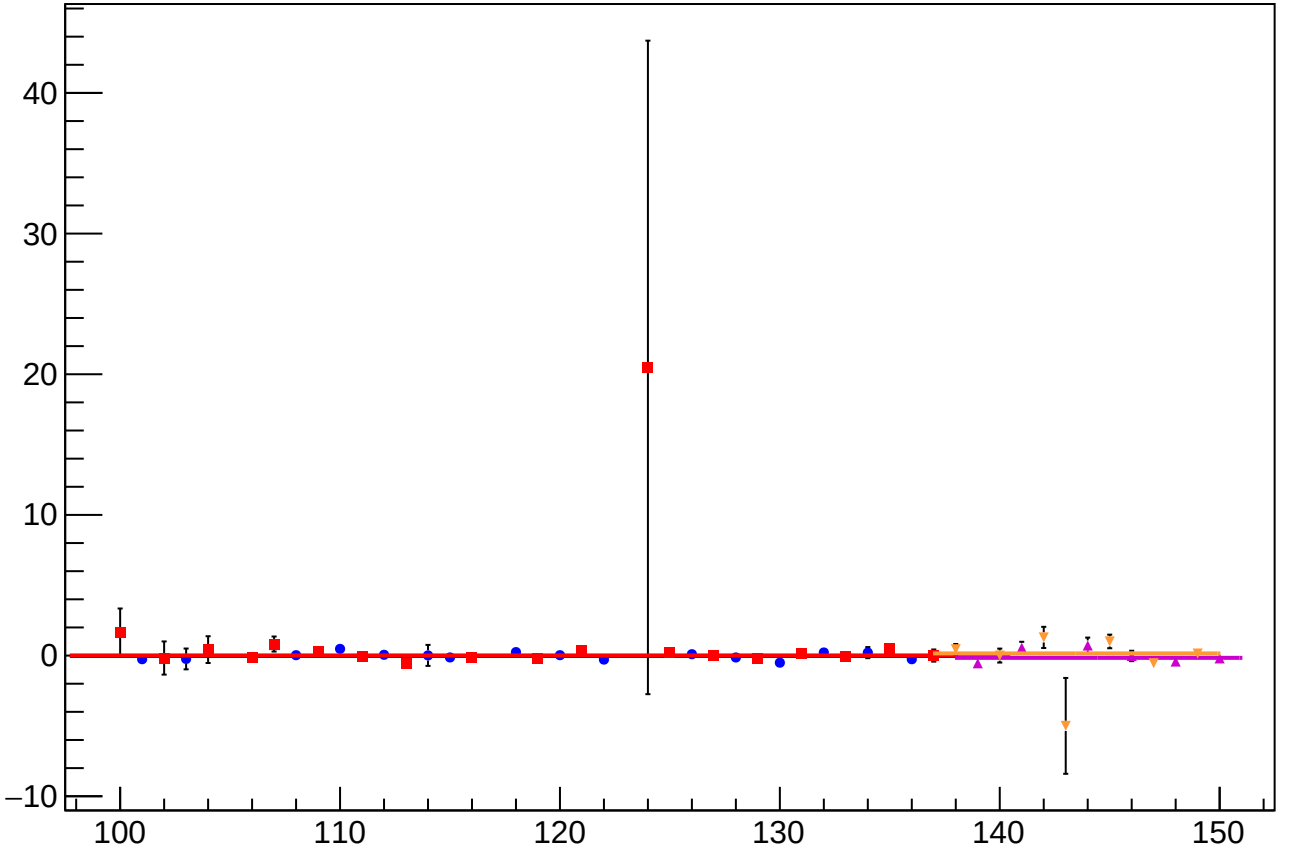
Right: 0.000+/-0.000 $\chi^2$/NDF: 5574117.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3776120.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4795012.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9360523.6/47

asym_atl_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.154+/-0.168 $\chi^2$/NDF:13.0/6

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.161+/-0.145 $\chi^2$/NDF:8.1/5

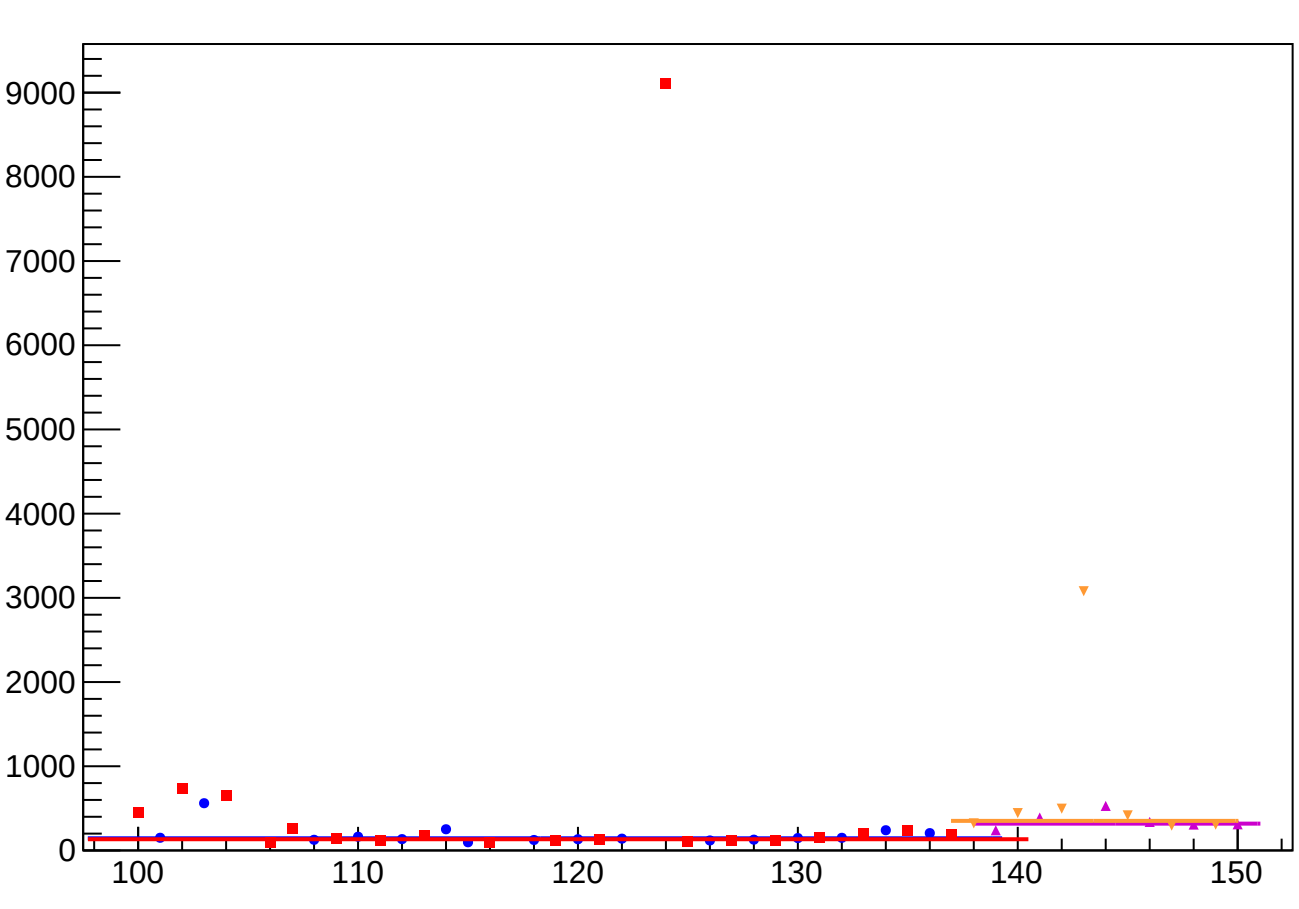
Left: -0.026+/-0.110 $\chi^2$/NDF: 23.1/12

Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.047+/-0.054 $\chi^2$/NDF:26.1/21

Out: 0.025+/-0.054 $\chi^2$/NDF:35.4/25

All: -0.011+/-0.038 $\chi^2$/NDF: 62.4/47




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 351.258+/-0.118 $\chi^2$/NDF:1570086.1/6

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 318.542+/-0.103 $\chi^2$/NDF:516590.0/5

Left: 332.552+/-0.078 $\chi^2$/NDF: 2130284.1/12

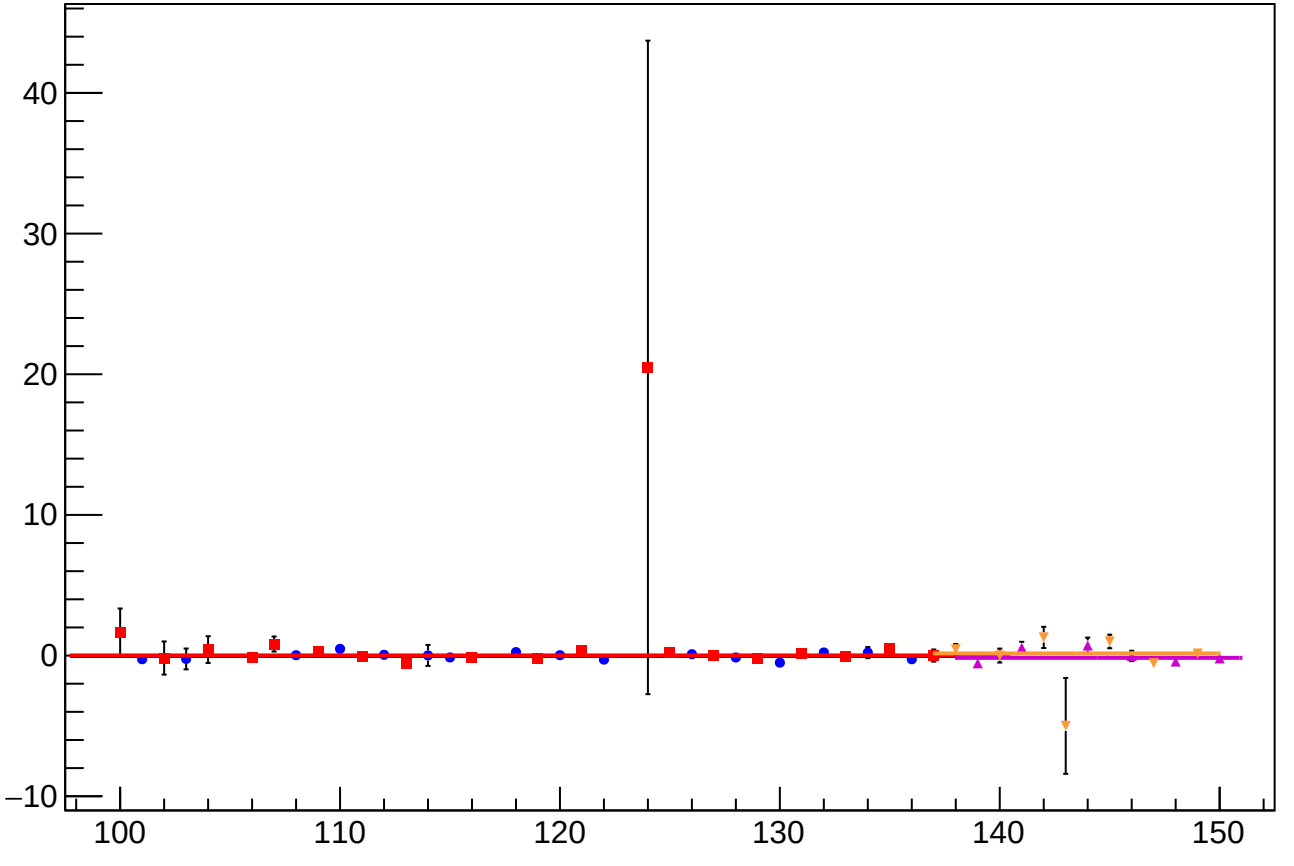
Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 168.206+/-0.038 $\chi^2$/NDF:4137777.4/21

Out: 155.525+/-0.038 $\chi^2$/NDF:6831371.2/25

All: 161.846+/-0.027 $\chi^2$/NDF: 11025061.9/47

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.154+/-0.168 $\chi^2$/NDF:13.0/6

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.161+/-0.145 $\chi^2$/NDF:8.1/5

Left: -0.026+/-0.110 $\chi^2$/NDF: 23.1/12

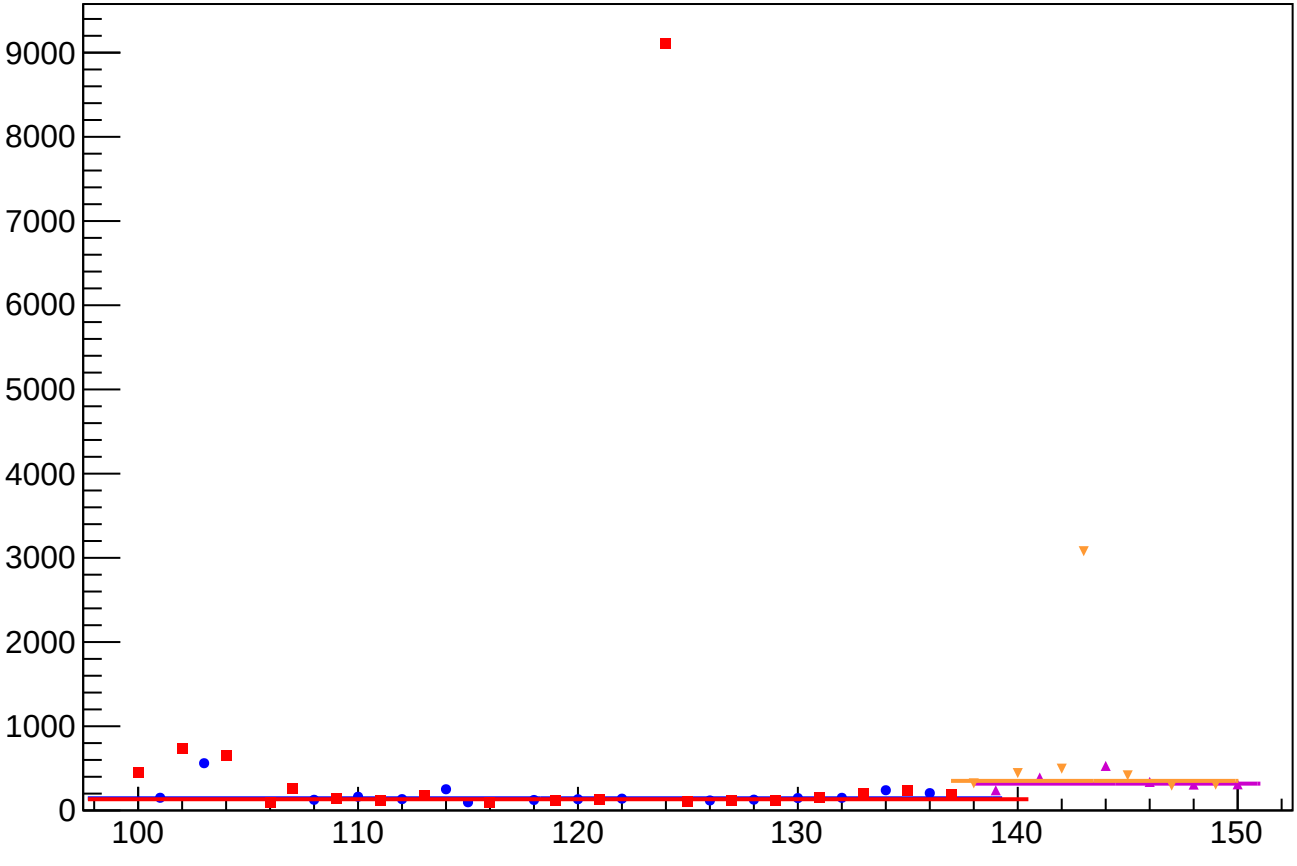
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.047+/-0.054 $\chi^2$/NDF:26.1/21

Out: 0.025+/-0.054 $\chi^2$/NDF:35.4/25

All: -0.011+/-0.038 $\chi^2$/NDF: 62.4/47

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 351.258+/-0.118 $\chi^2$/NDF:1570086.1/6

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 318.542+/-0.103 $\chi^2$/NDF:516590.0/5

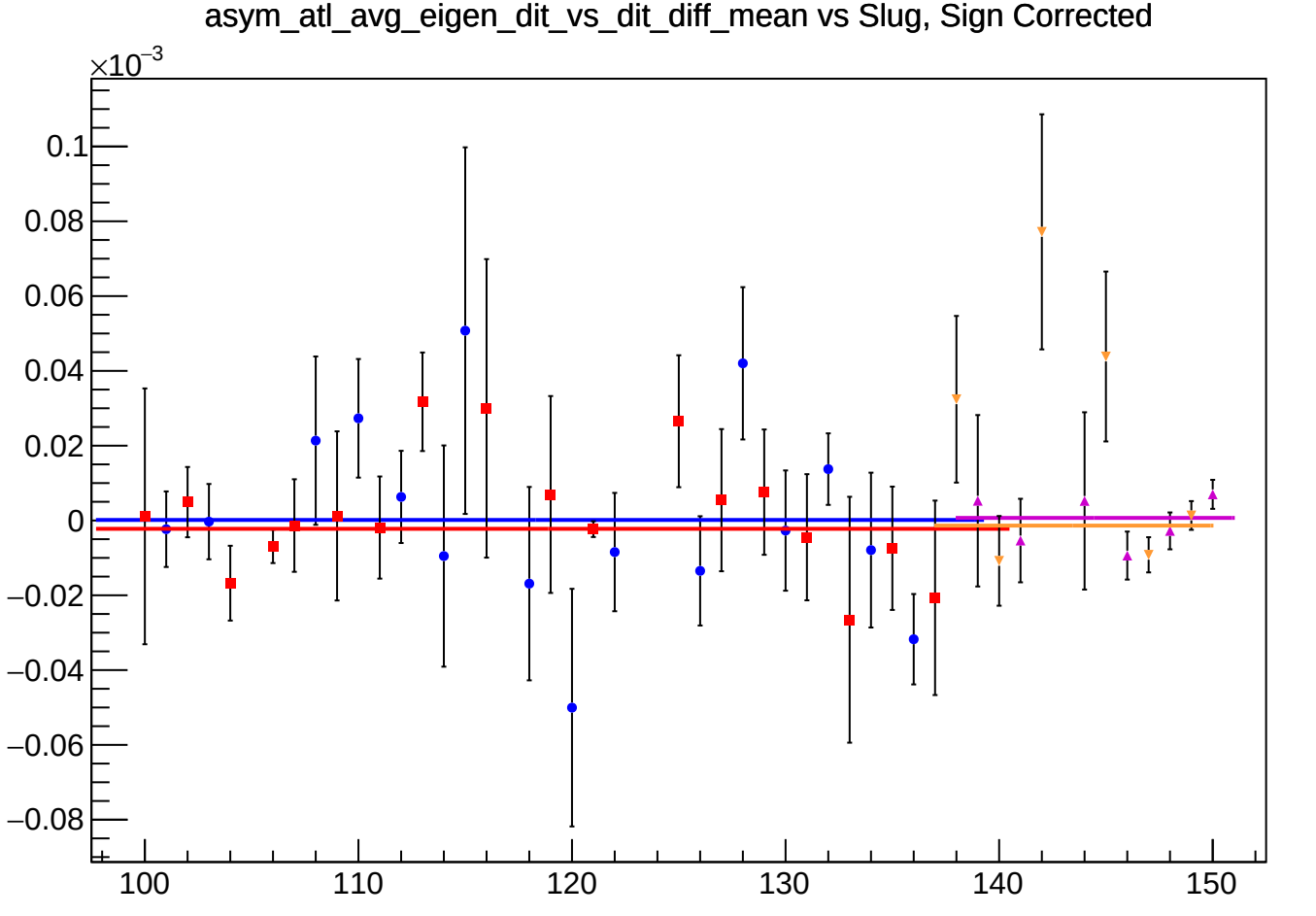
Left: 332.552+/-0.078 $\chi^2$/NDF: 2130284.1/12

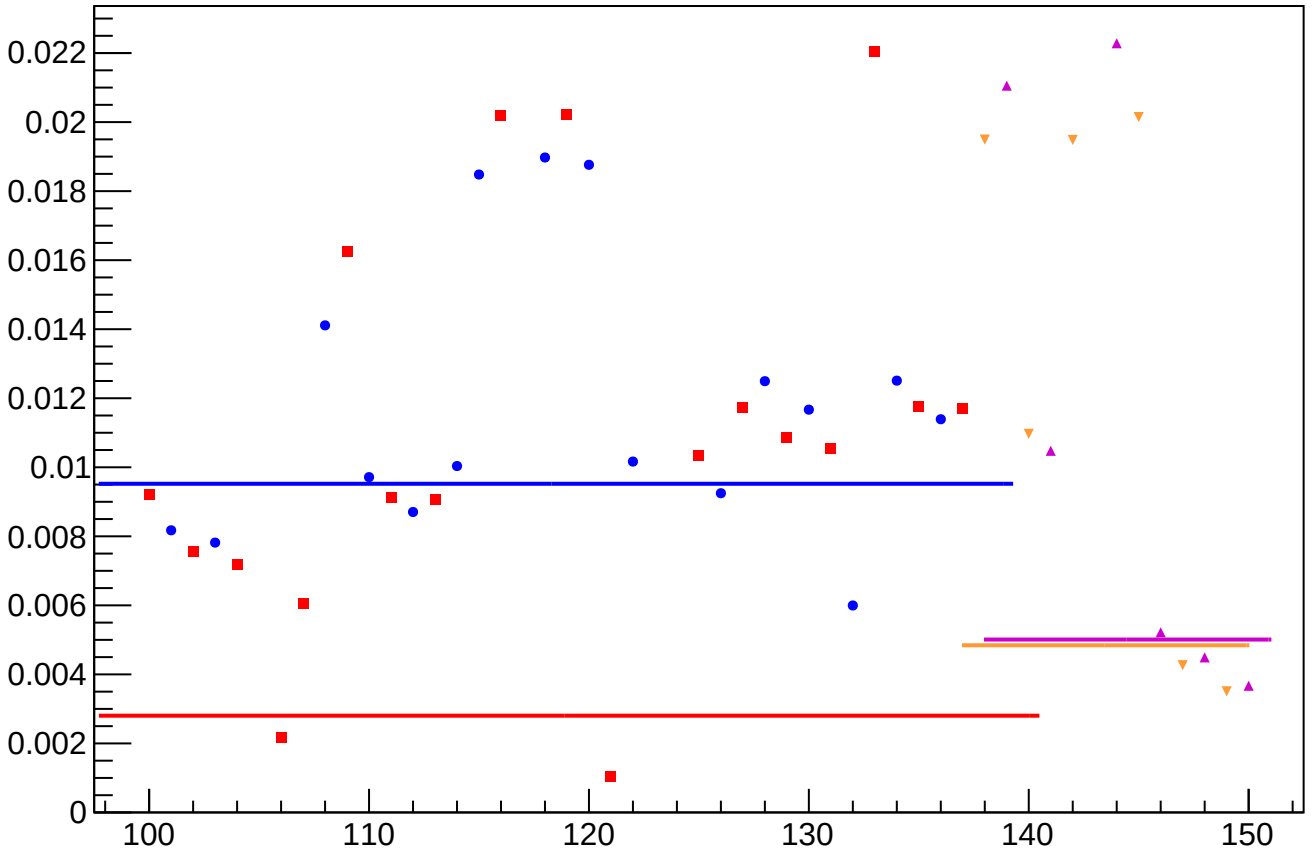
Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 168.206+/-0.038 $\chi^2$/NDF:4137777.4/21

Out: 155.525+/-0.038 $\chi^2$/NDF:6831371.2/25

All: 161.846+/-0.027 $\chi^2$/NDF: 11025061.9/47


asym_atl_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 22.8/15
Left Out: -0.000+/-0.000 χ²/NDF:16.4/5
Right Out: -0.000+/-0.000 χ²/NDF: 15.6/17
Left In: 0.000+/-0.000 χ²/NDF:6.0/5
Left: -0.000+/-0.000 χ²/NDF: 22.6/11
Right: -0.000+/-0.000 χ²/NDF: 38.7/33
In: 0.000+/-0.000 χ²/NDF:28.8/21
Out: -0.000+/-0.000 χ²/NDF:32.0/23
All: -0.000+/-0.000 χ²/NDF: 61.7/45




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1132946.4/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:2999884.7/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8568874.3/17

Left In: 0.005+/-0.000 $\chi^2$/NDF:2785129.2/5

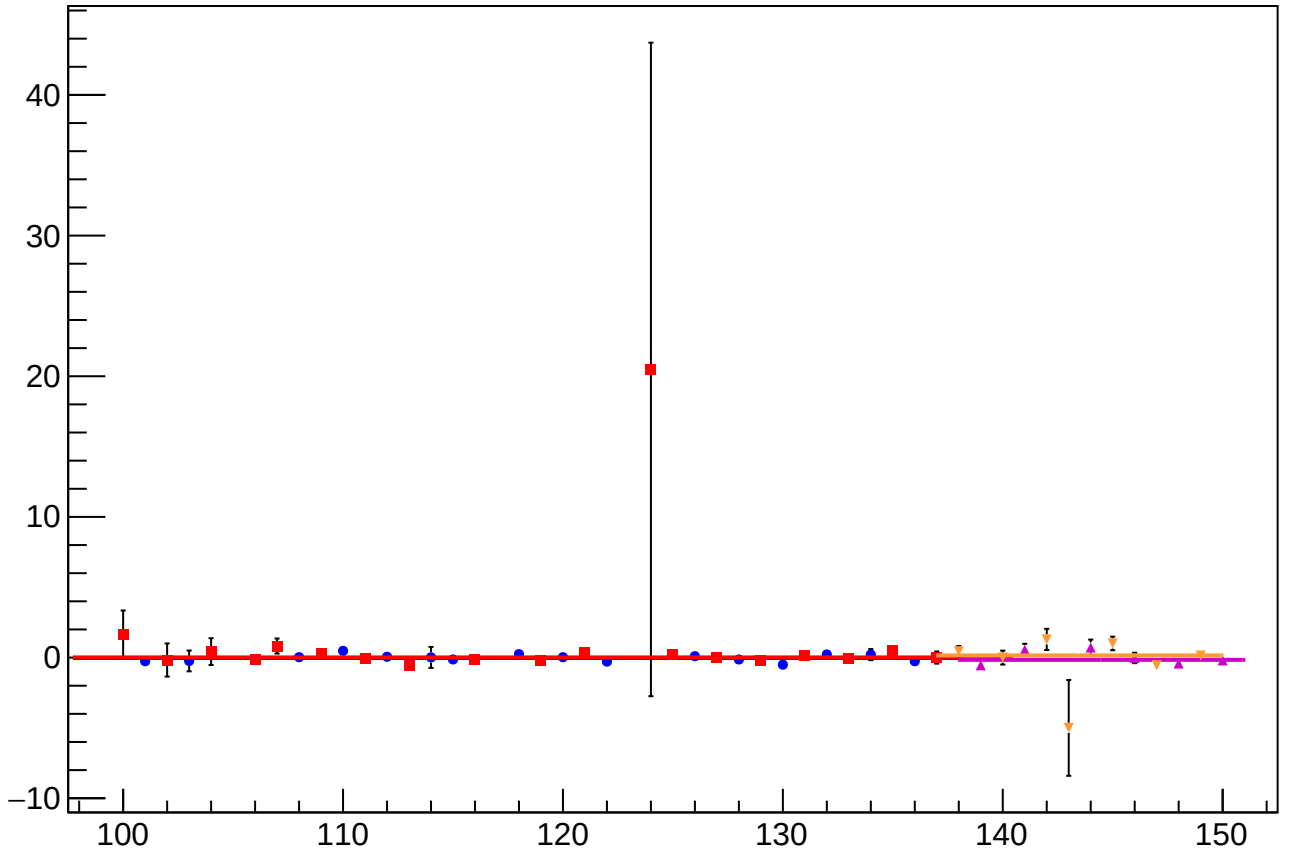
Left: 0.005+/-0.000 $\chi^2$/NDF: 5788681.8/11

Right: 0.004+/-0.000 $\chi^2$/NDF: 15020072.2/33

In: 0.007+/-0.000 $\chi^2$/NDF:5859481.1/21

Out: 0.003+/-0.000 $\chi^2$/NDF:12328520.6/23

All: 0.004+/-0.000 $\chi^2$/NDF: 21106760.5/45




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.154+/-0.168 $\chi^2$/NDF:13.0/6

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.161+/-0.145 $\chi^2$/NDF:8.1/5

Left: -0.026+/-0.110 $\chi^2$/NDF: 23.1/12

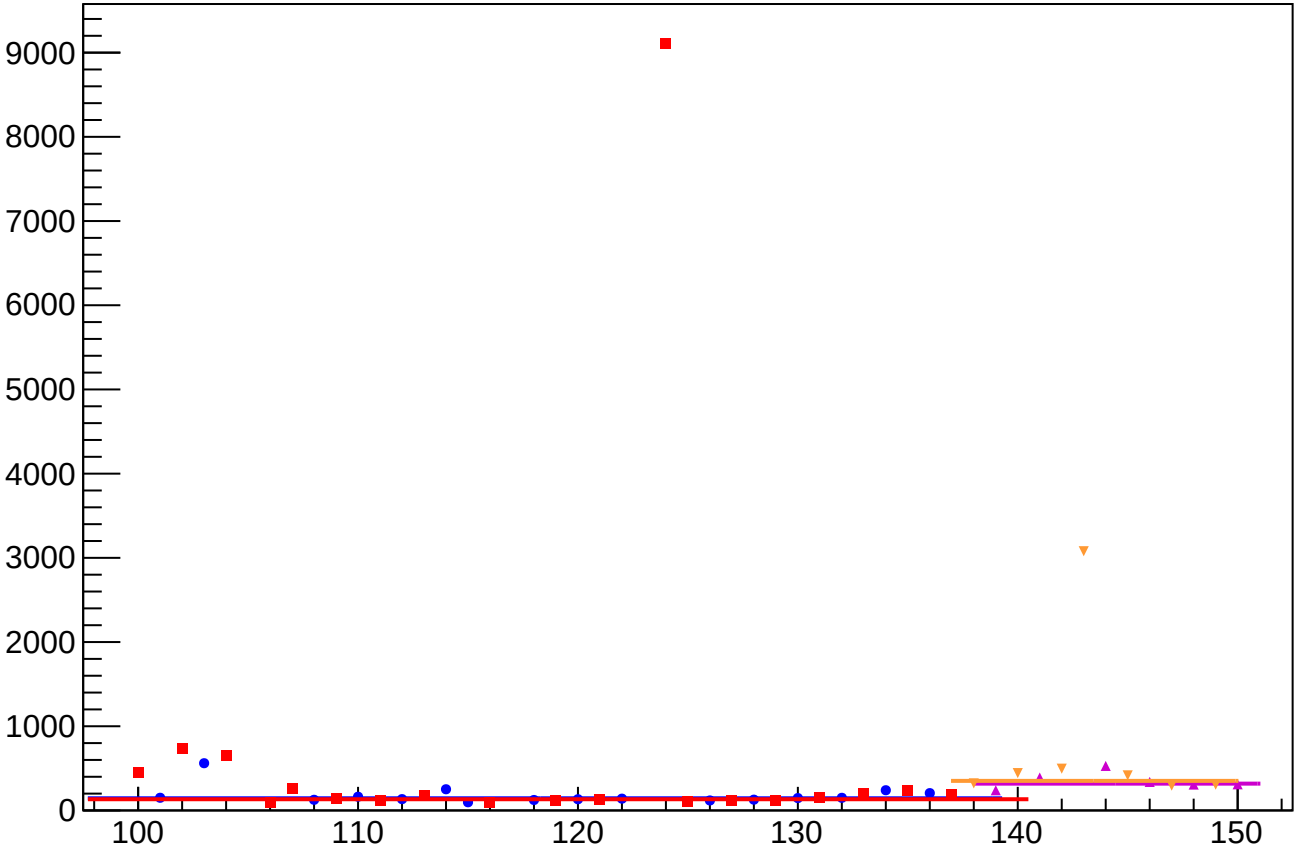
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.047+/-0.054 $\chi^2$/NDF:26.1/21

Out: 0.025+/-0.054 $\chi^2$/NDF:35.4/25

All: -0.011+/-0.038 $\chi^2$/NDF: 62.4/47

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 351.260+/-0.118 $\chi^2$/NDF:1570107.5/6

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 318.547+/-0.103 $\chi^2$/NDF:516573.9/5

Left: 332.556+/-0.078 $\chi^2$/NDF: 2130284.1/12

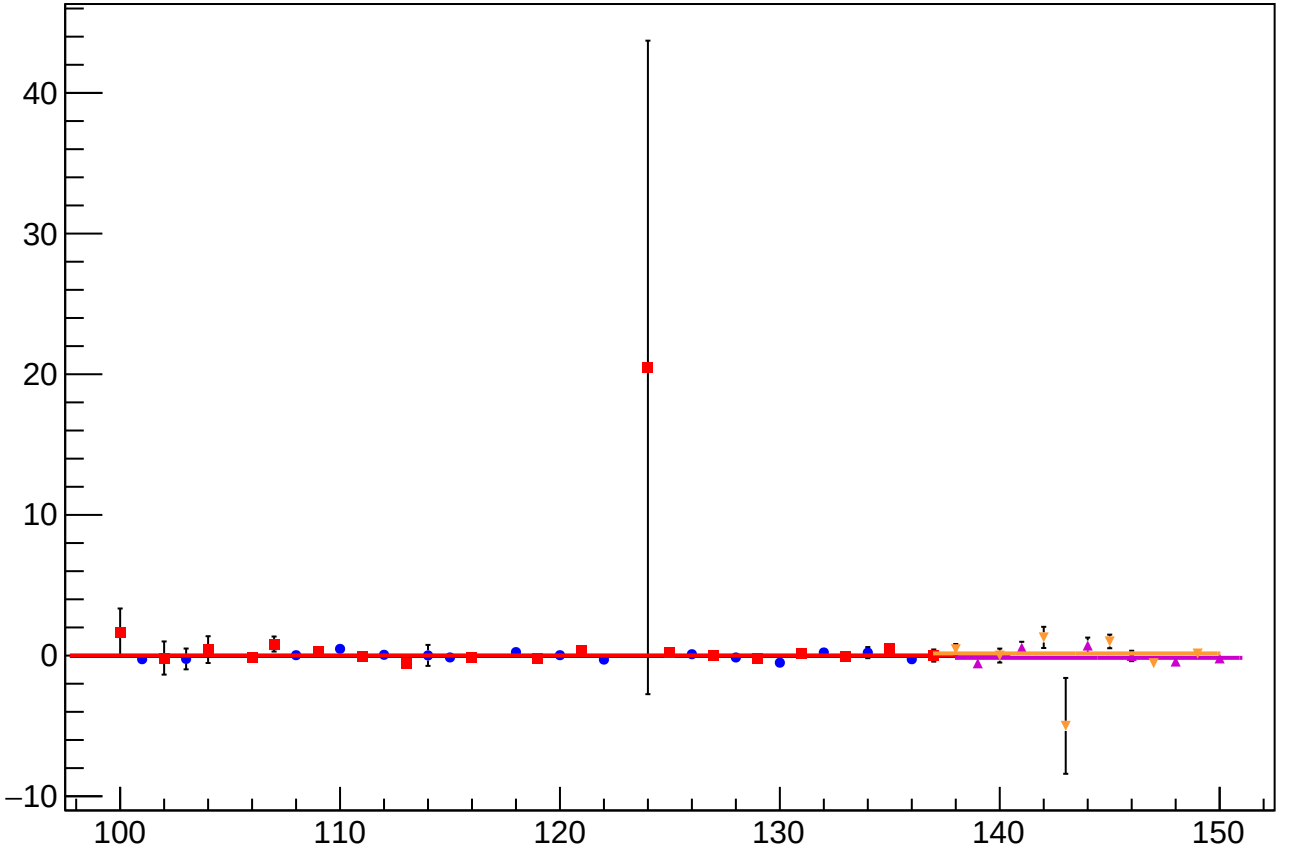
Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 168.205+/-0.038 $\chi^2$/NDF:4137898.8/21

Out: 155.524+/-0.038 $\chi^2$/NDF:6831401.2/25

All: 161.845+/-0.027 $\chi^2$/NDF: 11025207.6/47

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.154+/-0.168 $\chi^2$/NDF:13.0/6

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.161+/-0.145 $\chi^2$/NDF:8.1/5

Left: -0.026+/-0.110 $\chi^2$/NDF: 23.1/12

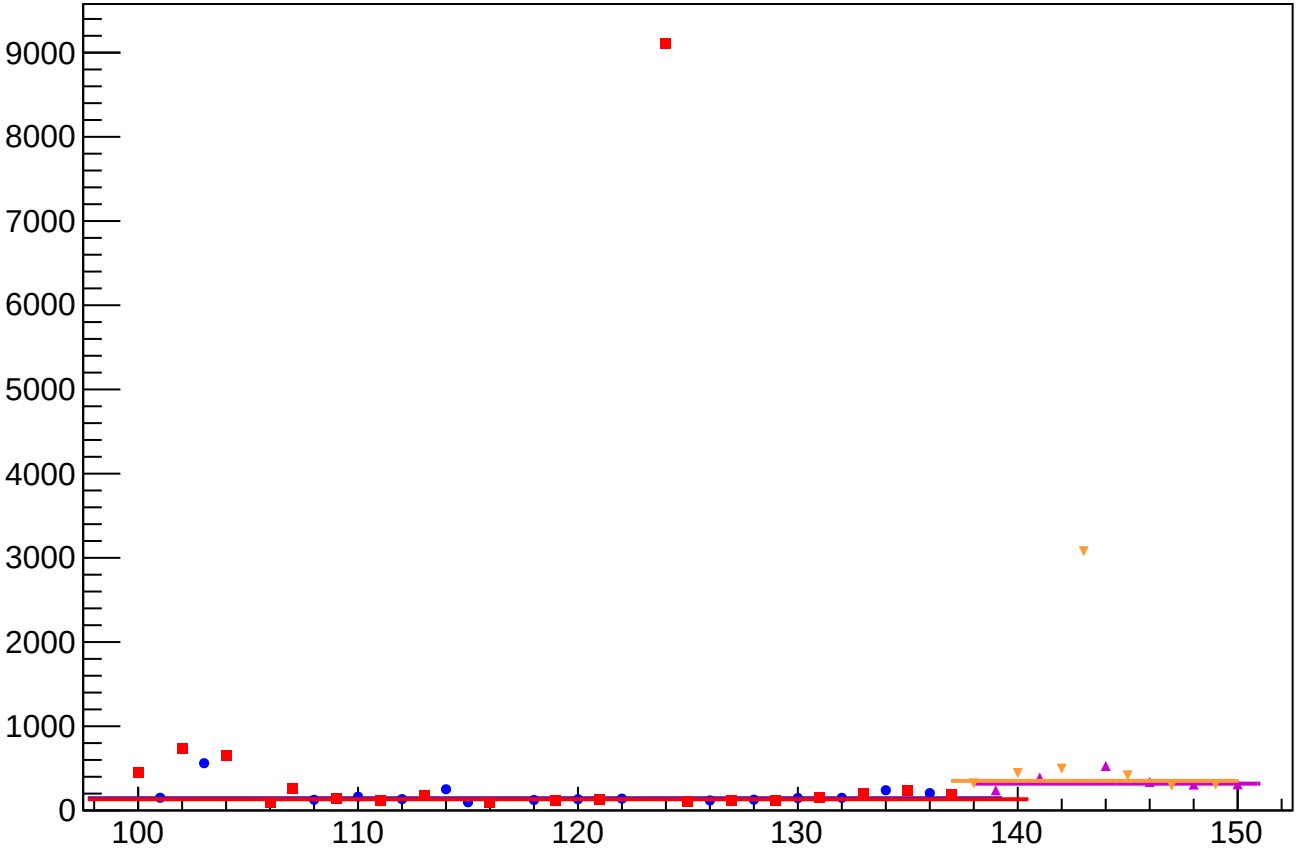
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.047+/-0.054 $\chi^2$/NDF:26.1/21

Out: 0.025+/-0.054 $\chi^2$/NDF:35.4/25

All: -0.011+/-0.038 $\chi^2$/NDF: 62.4/47

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 351.260+/-0.118 $\chi^2$/NDF:1570107.5/6

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 318.547+/-0.103 $\chi^2$/NDF:516573.9/5

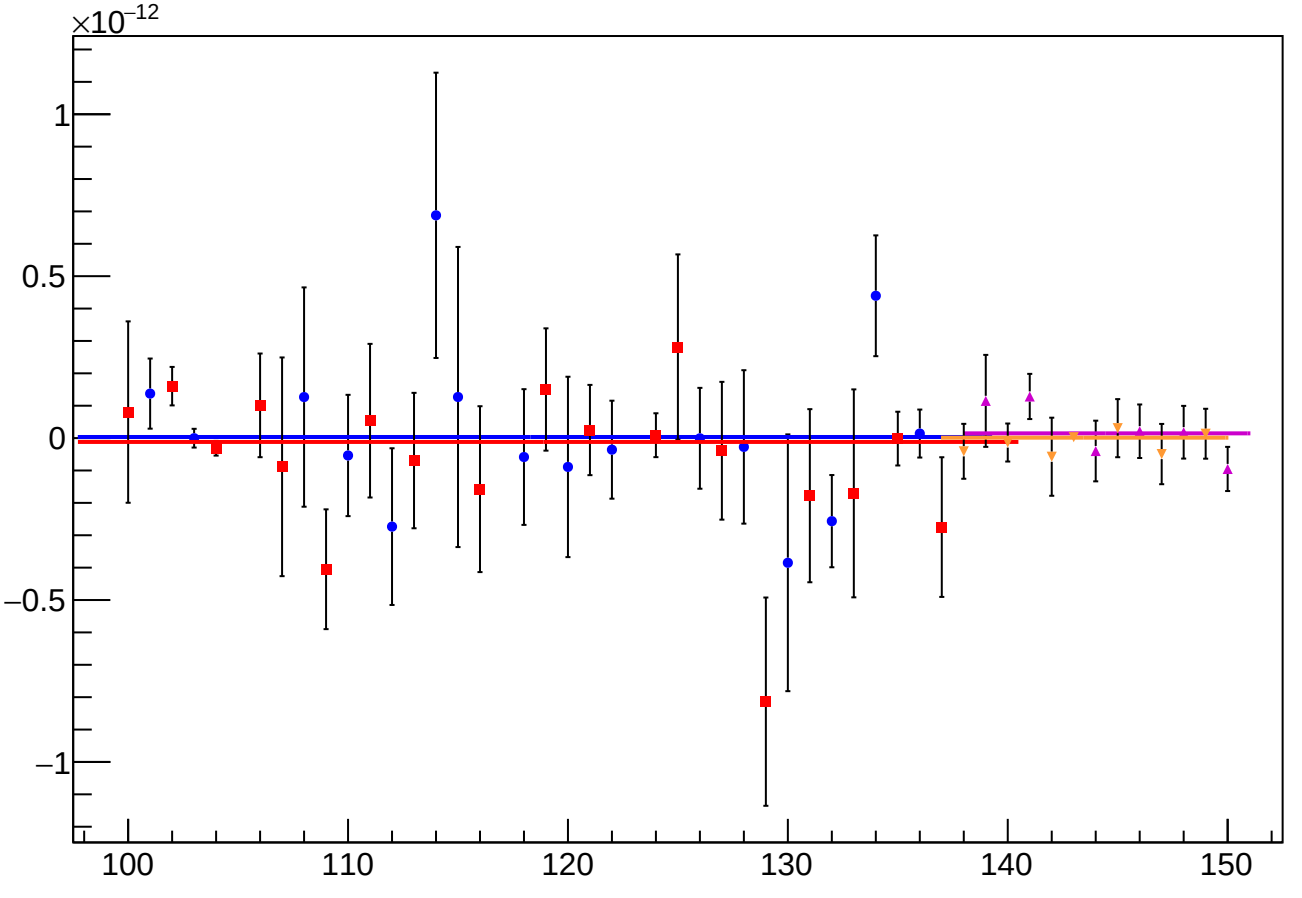
Left: 332.556+/-0.078 $\chi^2$/NDF: 2130284.1/12

Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 168.205+/-0.038 $\chi^2$/NDF:4137898.8/21

Out: 155.524+/-0.038 $\chi^2$/NDF:6831401.2/25

All: 161.845+/-0.027 $\chi^2$/NDF: 11025207.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.1/5

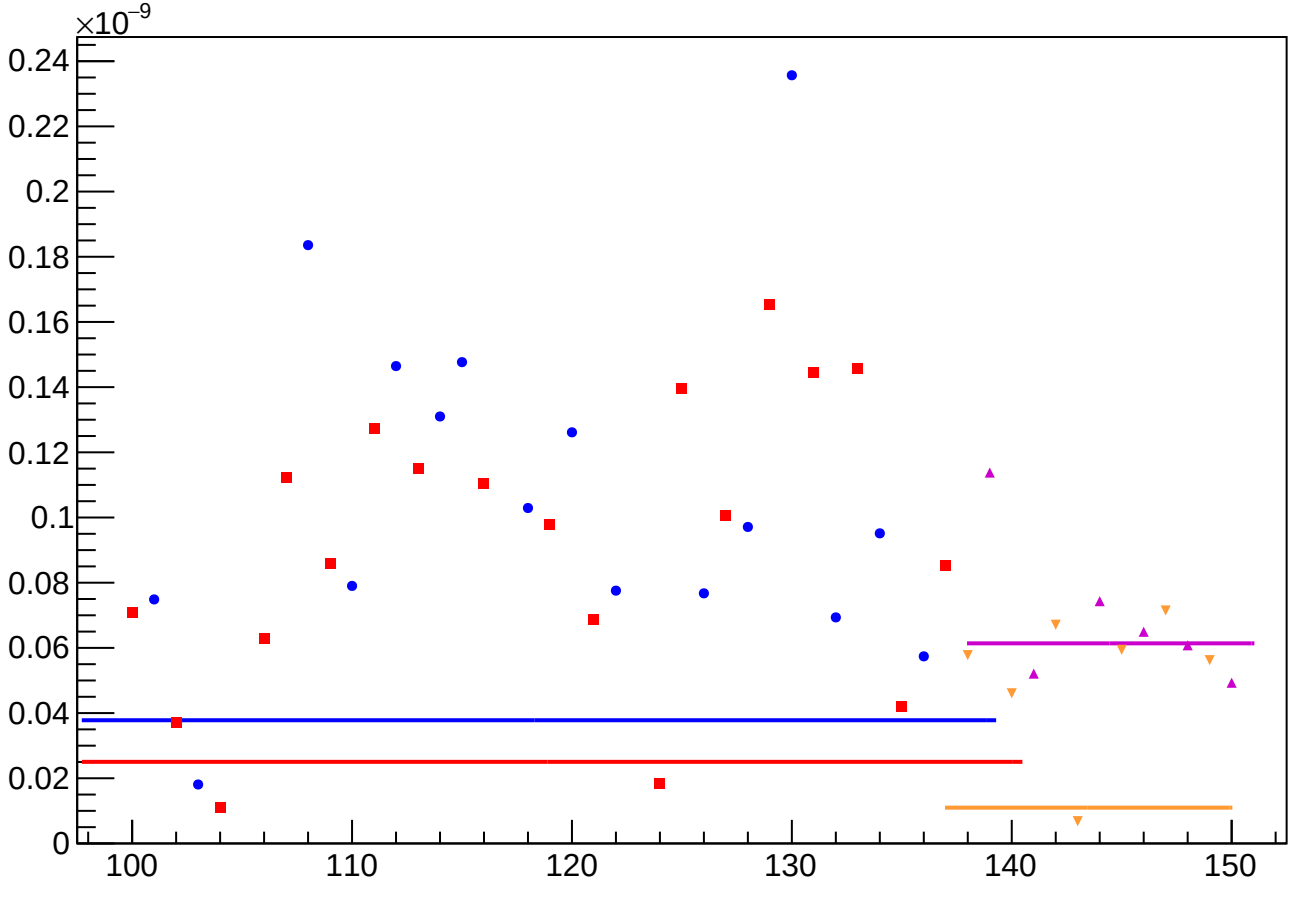
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3942675.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4216923.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4701757.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:412448.6/5

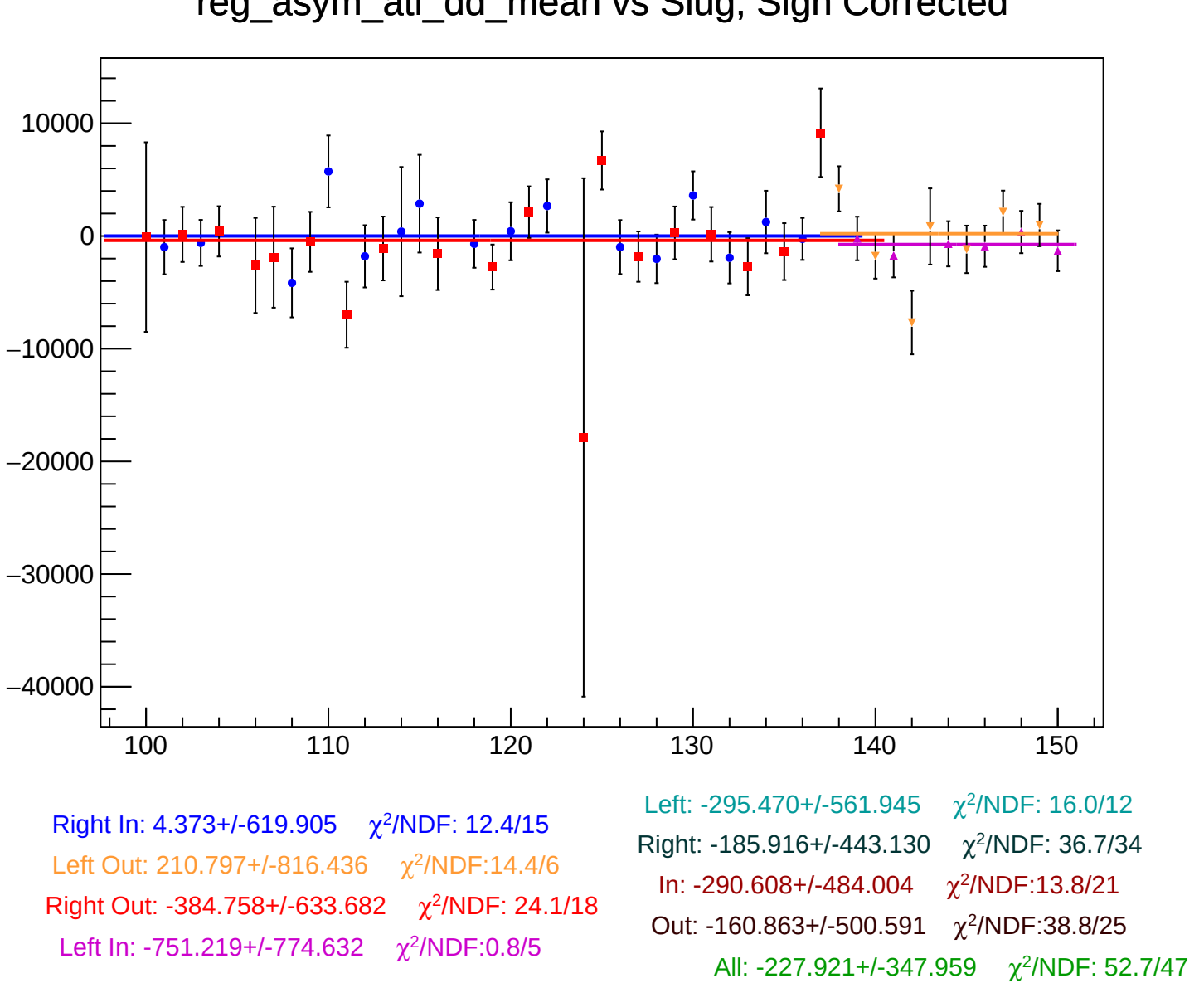
Left: 0.000+/-0.000 $\chi^2$/NDF: 8771055.8/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 8999957.7/34

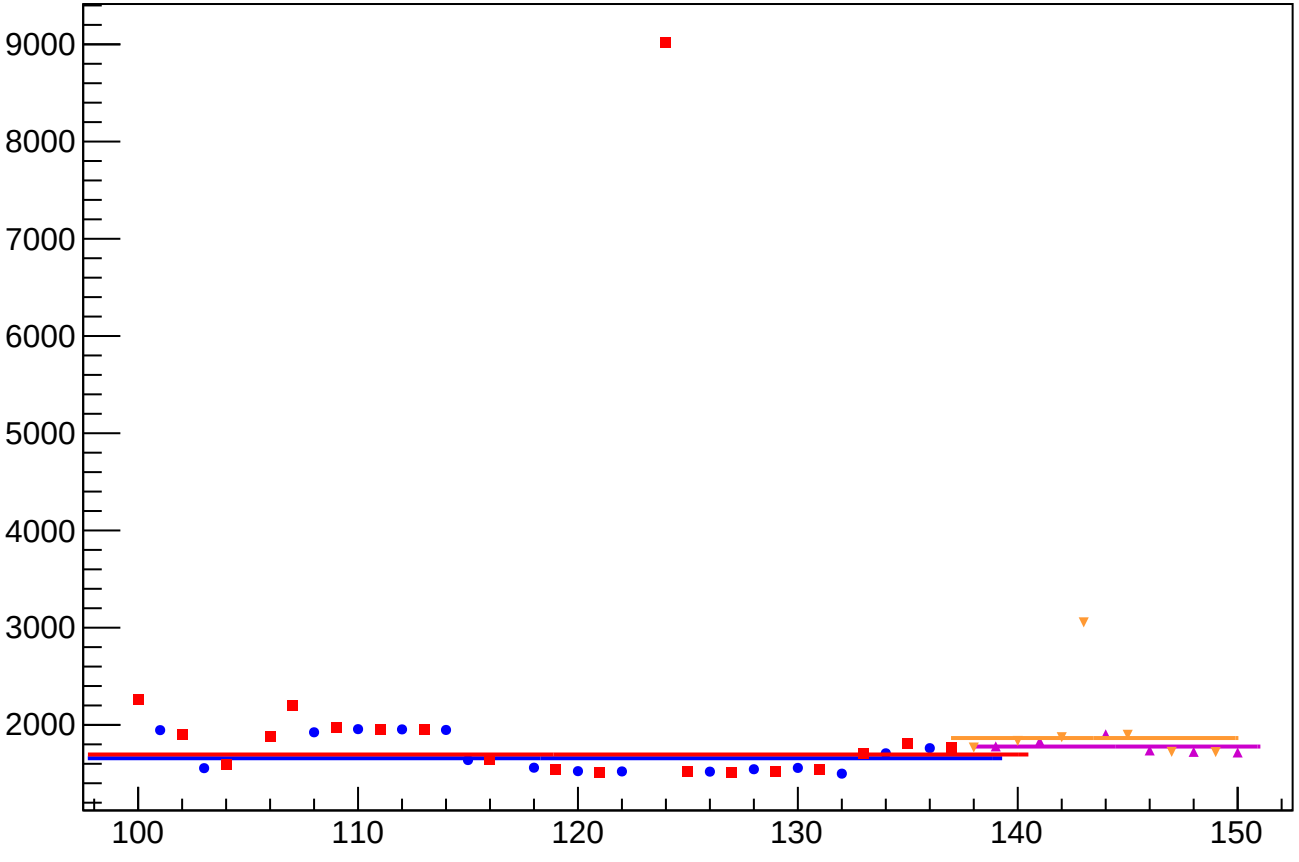
In: 0.000+/-0.000 $\chi^2$/NDF:5007277.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:9823976.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 19279452.8/47


reg_asym_atl_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: 4.373+/-619.905 χ²/NDF: 12.4/15
Left Out: 210.797+/-816.436 χ²/NDF:14.4/6
Right Out: -384.758+/-633.682 χ²/NDF: 24.1/18
Left In: -751.219+/-774.632 χ²/NDF:0.8/5
Left: -295.470+/-561.945 χ²/NDF: 16.0/12
Right: -185.916+/-443.130 χ²/NDF: 36.7/34
In: -290.608+/-484.004 χ²/NDF:13.8/21
Out: -160.863+/-500.591 χ²/NDF:38.8/25
All: -227.921+/-347.959 χ²/NDF: 52.7/47

# reg_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.4/15

Left Out: 1864.947+/-0.577 $\chi^2$/NDF:276477.6/6

Right Out: 1695.649+/-0.446 $\chi^2$/NDF: 386216.2/18

Left In: 1777.403+/-0.548 $\chi^2$/NDF:14221.4/5

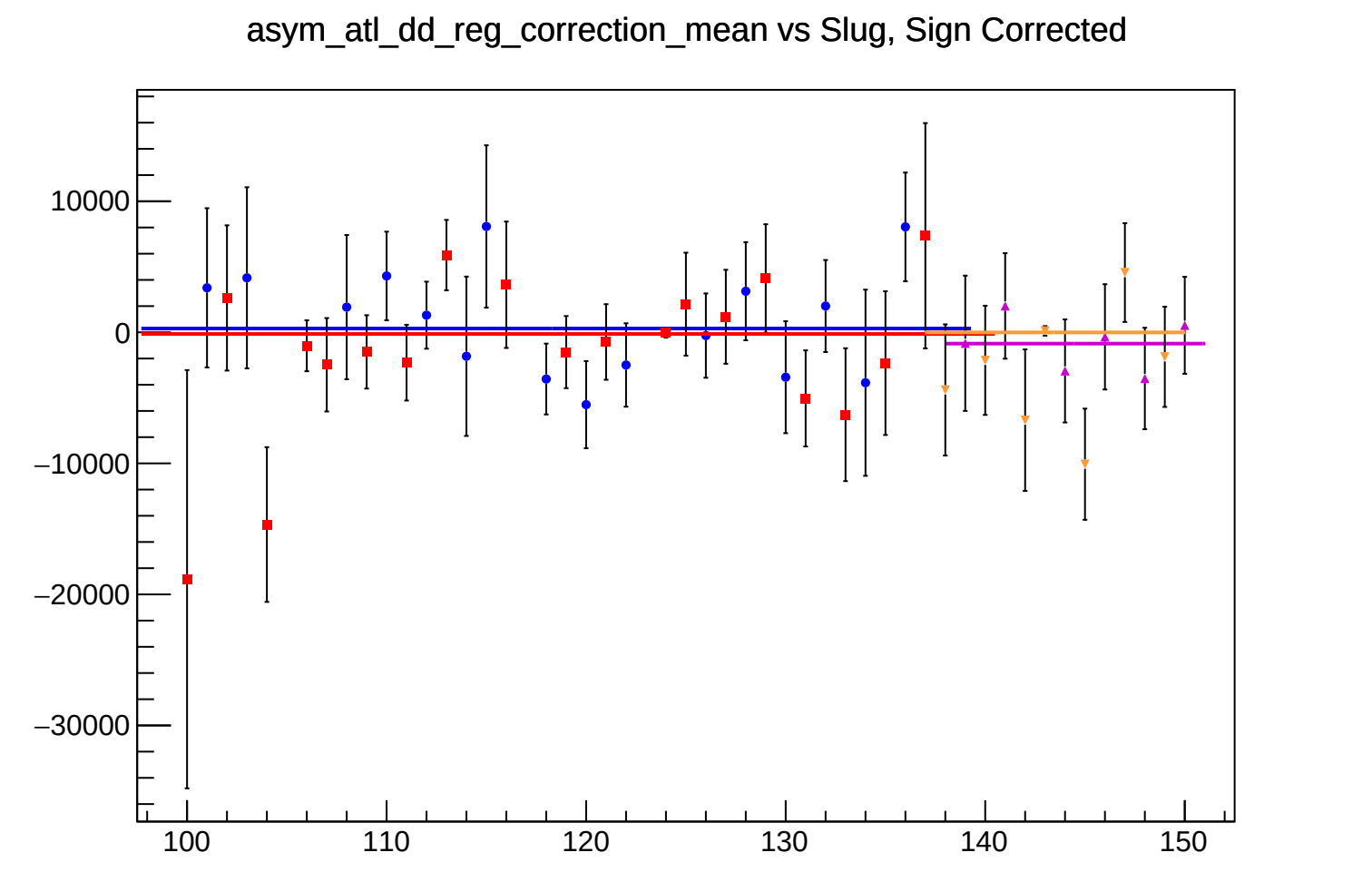
Left: 1818.876+/-0.397 $\chi^2$/NDF: 302800.2/12

Right: 1676.049+/-0.313 $\chi^2$/NDF: 533994.7/34

In: 1704.078+/-0.342 $\chi^2$/NDF:187600.8/21

Out: 1758.929+/-0.353 $\chi^2$/NDF:716547.4/25

All: 1730.659+/-0.246 $\chi^2$/NDF: 916596.0/47




Right In: 289.262+/-961.071 $\chi^2$/NDF: 15.2/15

Left Out: -7.693+/-356.496 $\chi^2$/NDF:10.0/6

Right Out: -125.586+/-323.715 $\chi^2$/NDF: 20.8/18

Left In: -862.012+/-1653.600 $\chi^2$/NDF:1.4/5

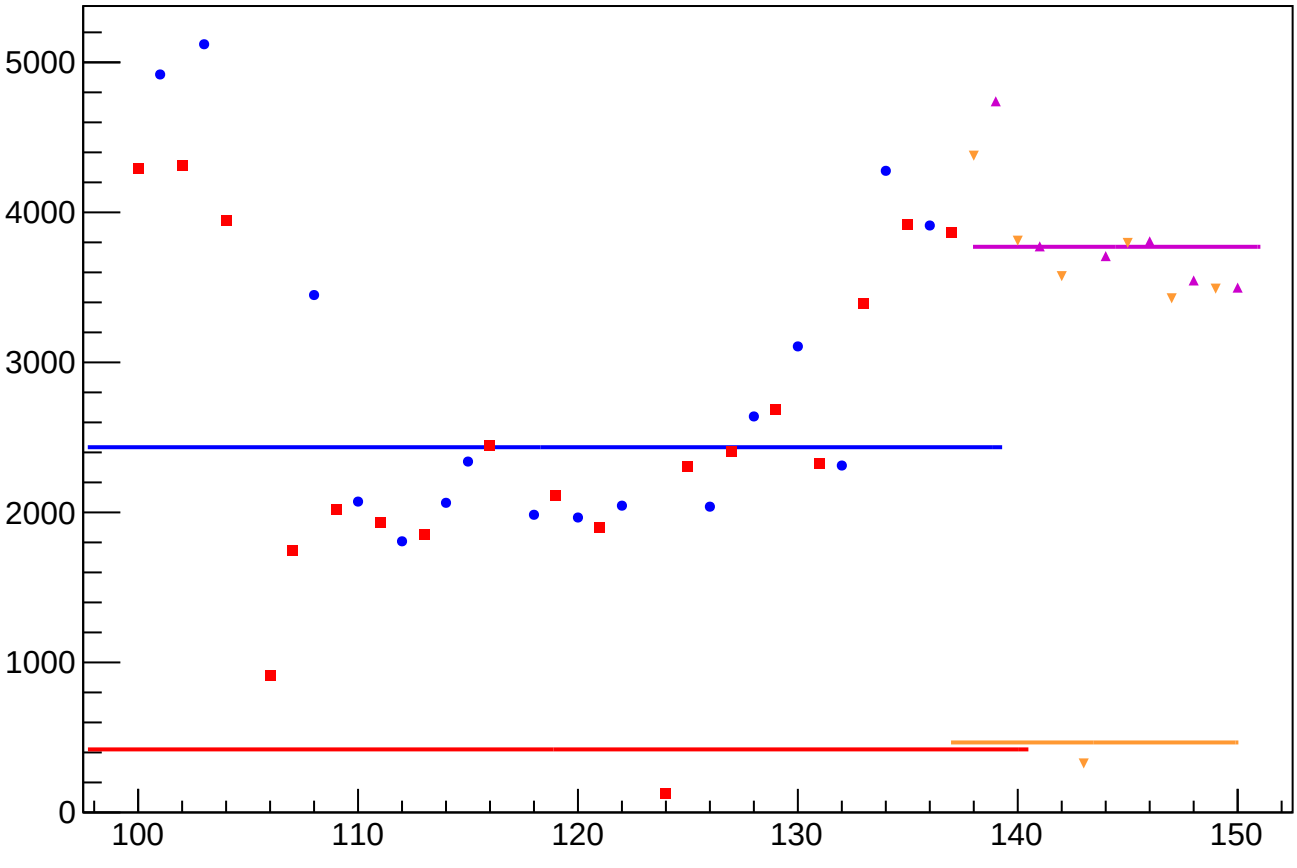
Left: -45.637+/-348.489 $\chi^2$/NDF: 11.7/12

Right: -83.316+/-306.780 $\chi^2$/NDF: 36.2/34

In: -1.435+/-830.923 $\chi^2$/NDF:17.0/21

Out: -72.308+/-239.654 $\chi^2$/NDF:30.9/25

All: -66.865+/-230.268 $\chi^2$/NDF: 47.9/47




Right In: 2434.593+/-0.680 $\chi^2$/NDF: 1457721.5/15

Left Out: 466.617+/-0.252 $\chi^2$/NDF:7188242.0/6

Right Out: 420.292+/-0.229 $\chi^2$/NDF: 11063973.9/18

Left In: 3770.544+/-1.169 $\chi^2$/NDF:88831.3/5

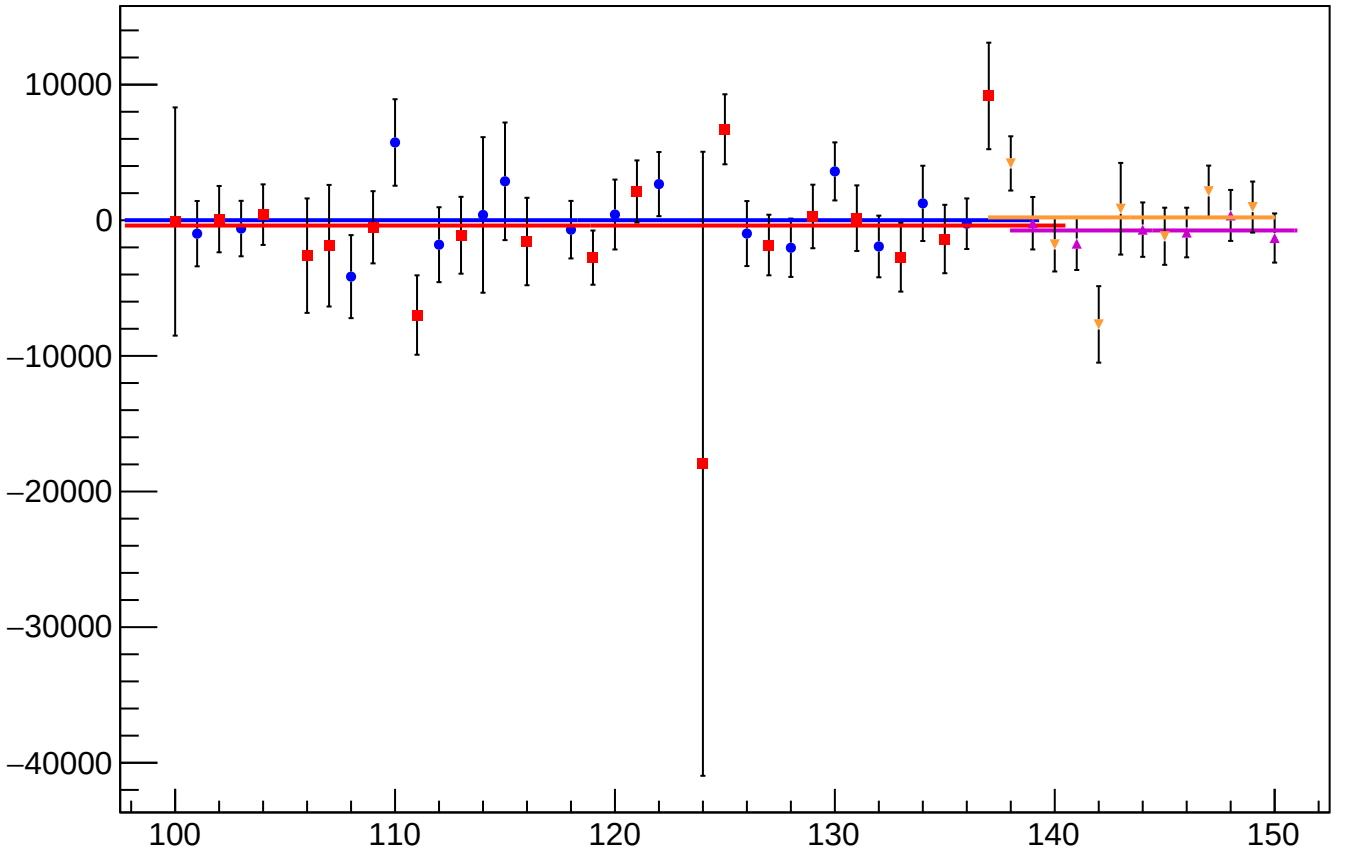
Left: 613.357+/-0.246 $\chi^2$/NDF: 14906641.8/12

Right: 625.534+/-0.217 $\chi^2$/NDF: 20412045.5/34

In: 2771.921+/-0.588 $\chi^2$/NDF:2522354.1/21

Out: 441.227+/-0.169 $\chi^2$/NDF:18270725.2/25

All: 620.218+/-0.163 $\chi^2$/NDF: 35320063.1/47




Right In: 4.295+/-619.905 $\chi^2$/NDF: 12.4/15

Left Out: 210.622+/-816.436 $\chi^2$/NDF:14.4/6

Right Out: -389.054+/-633.688 $\chi^2$/NDF: 24.0/18

Left In: -751.184+/-774.632 $\chi^2$/NDF:0.8/5

Left: -295.535+/-561.945 $\chi^2$/NDF: 16.0/12

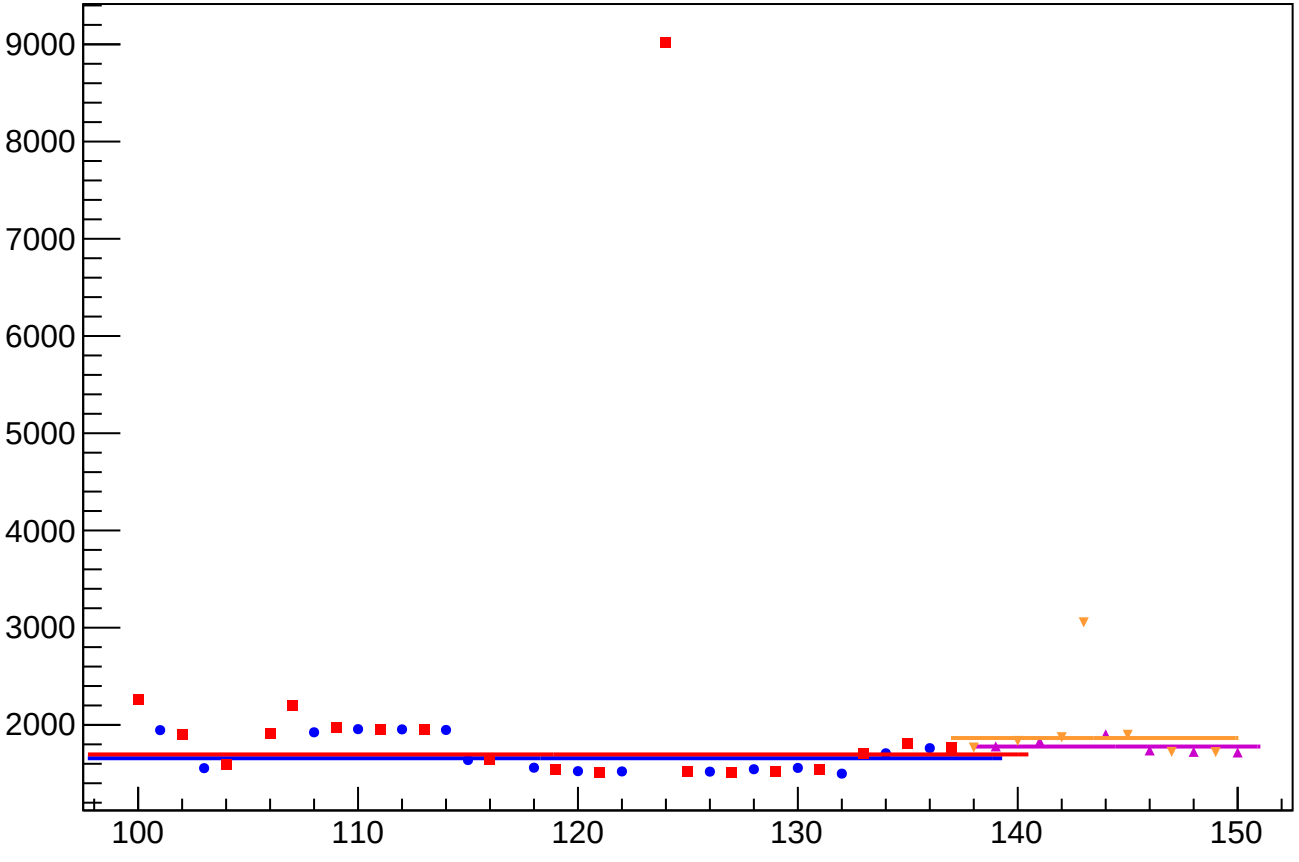
Right: -188.056+/-443.132 $\chi^2$/NDF: 36.7/34

In: -290.642+/-484.004 $\chi^2$/NDF:13.8/21

Out: -163.608+/-500.594 $\chi^2$/NDF:38.8/25

All: -229.265+/-347.960 $\chi^2$/NDF: 52.7/47

# cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1864.947+/-0.577 $\chi^2$/NDF:276477.6/6

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1777.403+/-0.548 $\chi^2$/NDF:14221.4/5

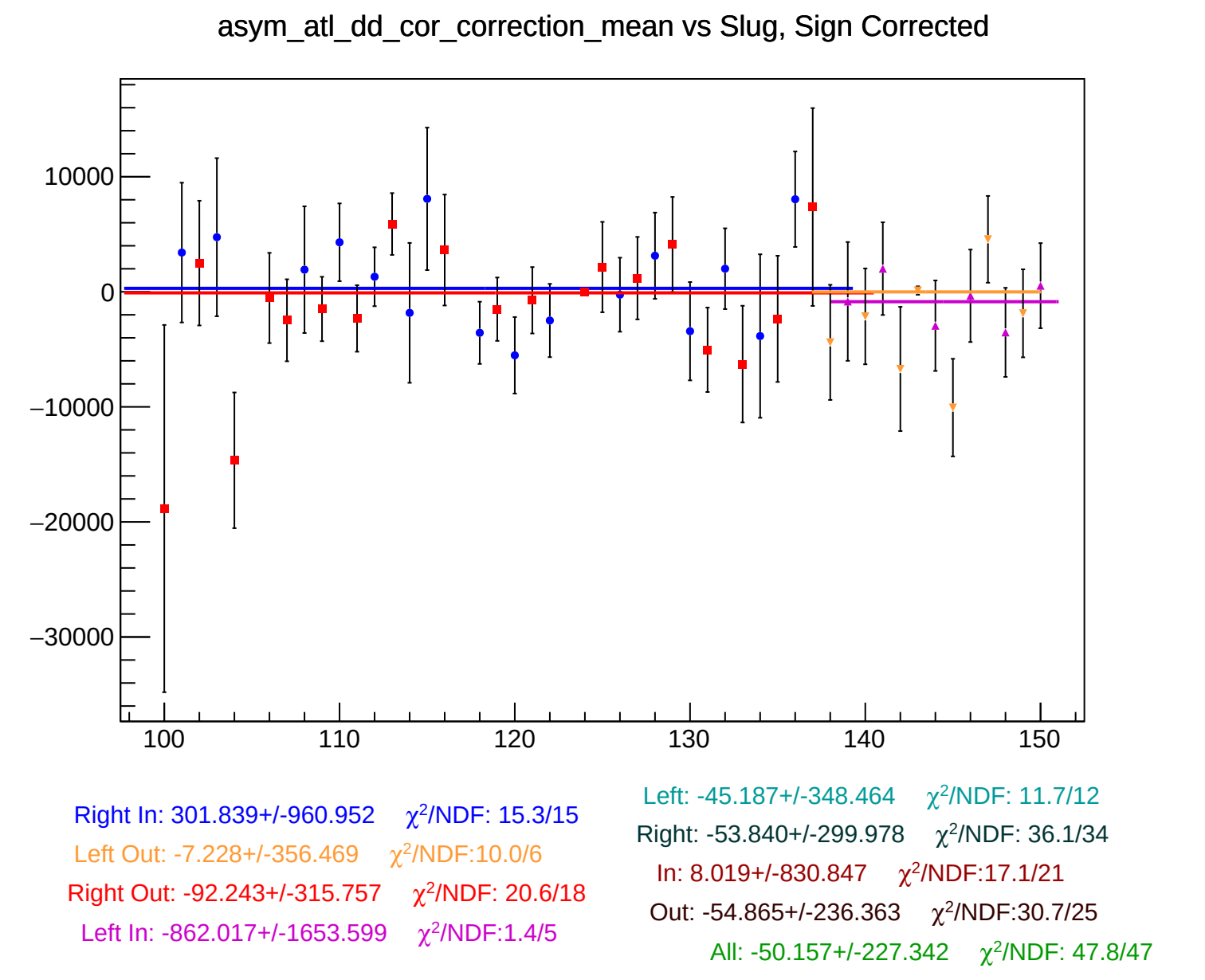
Left: 1818.876+/-0.397 $\chi^2$/NDF: 302800.2/12

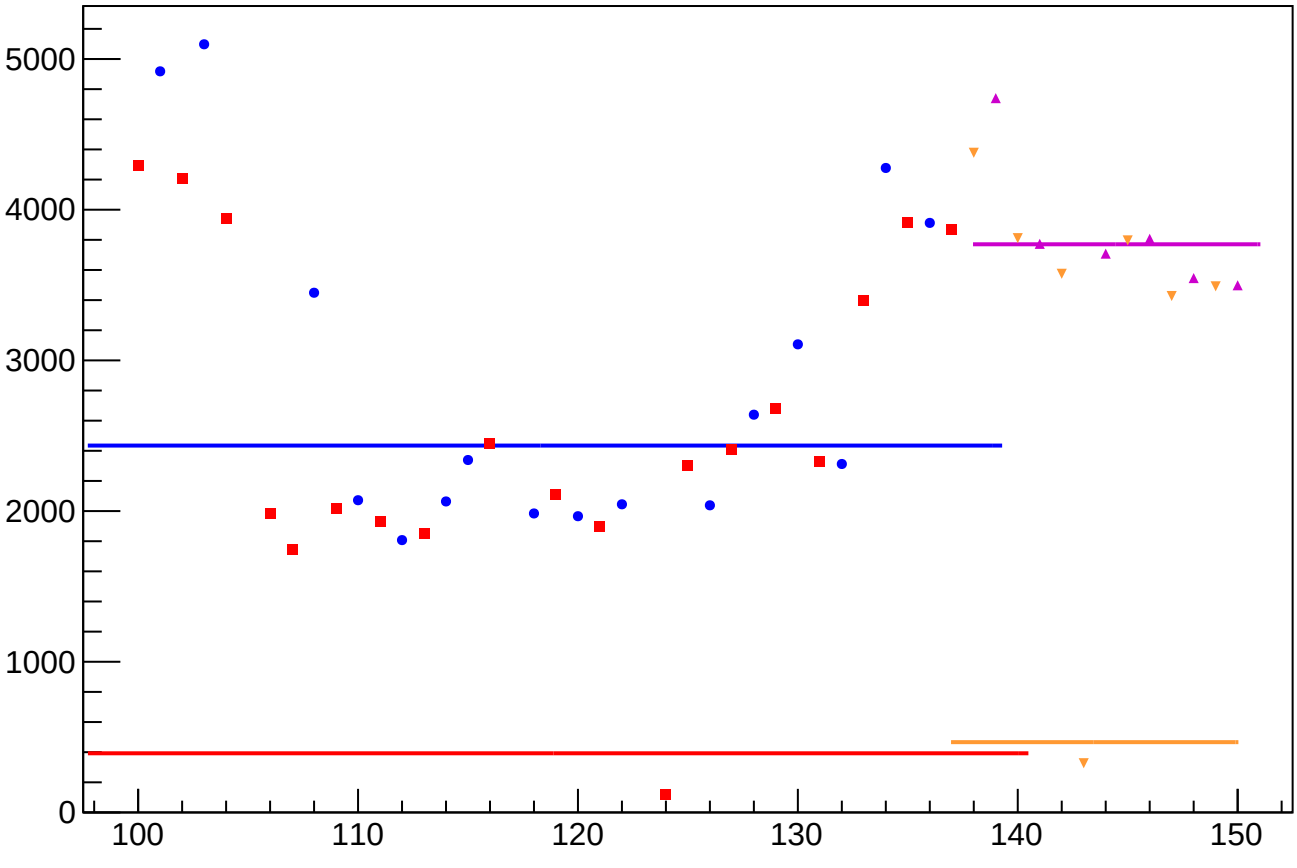
Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1704.078+/-0.342 $\chi^2$/NDF:187600.9/21

Out: 1759.464+/-0.353 $\chi^2$/NDF:717782.8/25

All: 1730.909+/-0.246 $\chi^2$/NDF: 918071.6/47


asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
Right In: 301.839+/-960.952 χ²/NDF: 15.3/15
Left Out: -7.228+/-356.469 χ²/NDF:10.0/6
Right Out: -92.243+/-315.757 χ²/NDF: 20.6/18
Left In: -862.017+/-1653.599 χ²/NDF:1.4/5
Left: -45.187+/-348.464 χ²/NDF: 11.7/12
Right: -53.840+/-299.978 χ²/NDF: 36.1/34
In: 8.019+/-830.847 χ²/NDF:17.1/21
Out: -54.865+/-236.363 χ²/NDF:30.7/25
All: -50.157+/-227.342 χ²/NDF: 47.8/47




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 466.568+/-0.252 $\chi^2$/NDF:7188406.4/6

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 3770.543+/-1.169 $\chi^2$/NDF:88830.1/5

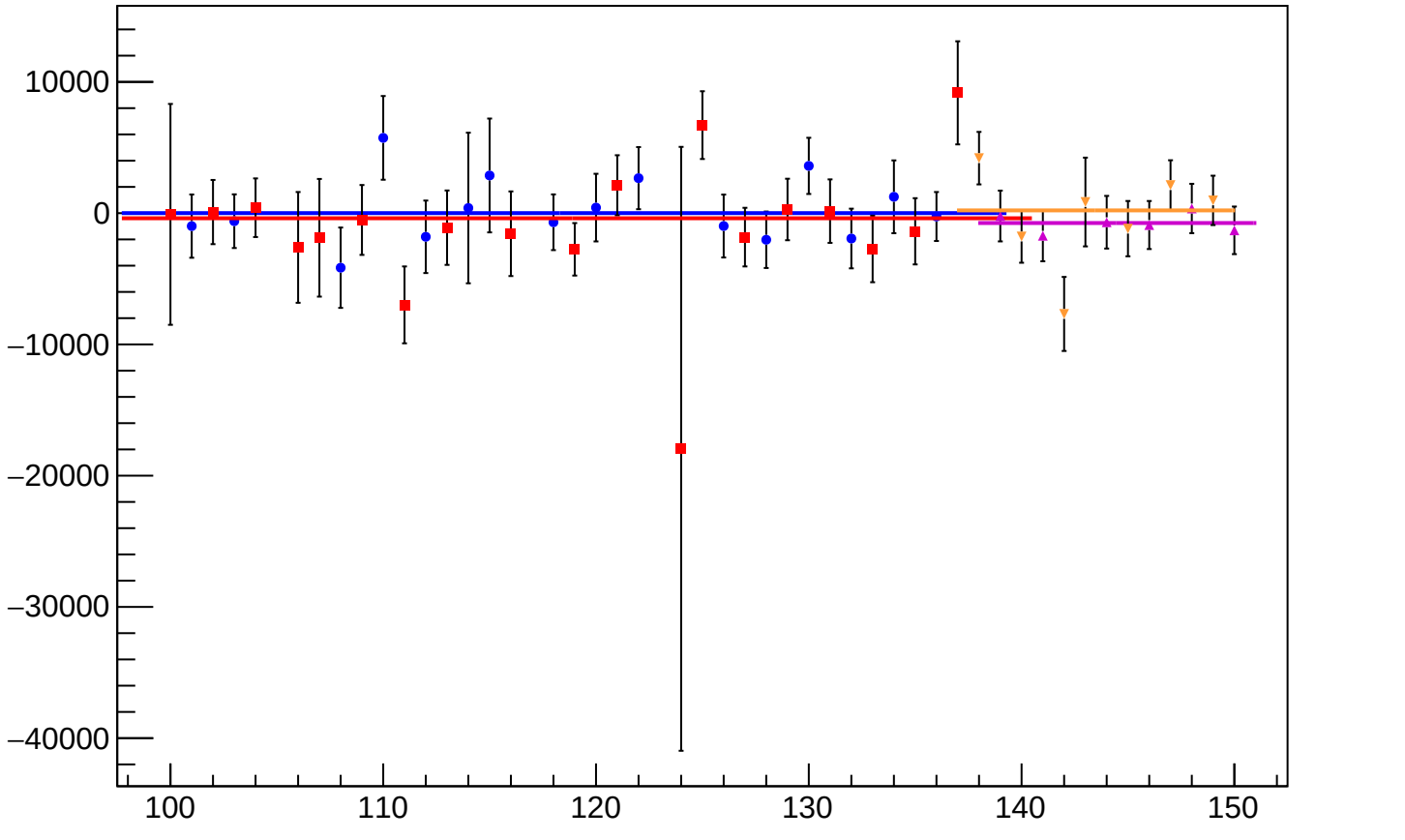
Left: 613.289+/-0.246 $\chi^2$/NDF: 14907083.3/12

Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

In: 2771.982+/-0.587 $\chi^2$/NDF:2520477.1/21

Out: 425.157+/-0.167 $\chi^2$/NDF:18644580.5/25

All: 600.869+/-0.161 $\chi^2$/NDF: 35927261.3/47




Right In: 4.295+/-619.905 $\chi^2$/NDF: 12.4/15

Left Out: 210.622+/-816.436 $\chi^2$/NDF:14.4/6

Right Out: -389.054+/-633.688 $\chi^2$/NDF: 24.0/18

Left In: -751.184+/-774.632 $\chi^2$/NDF:0.8/5

Left: -295.535+/-561.945 $\chi^2$/NDF: 16.0/12

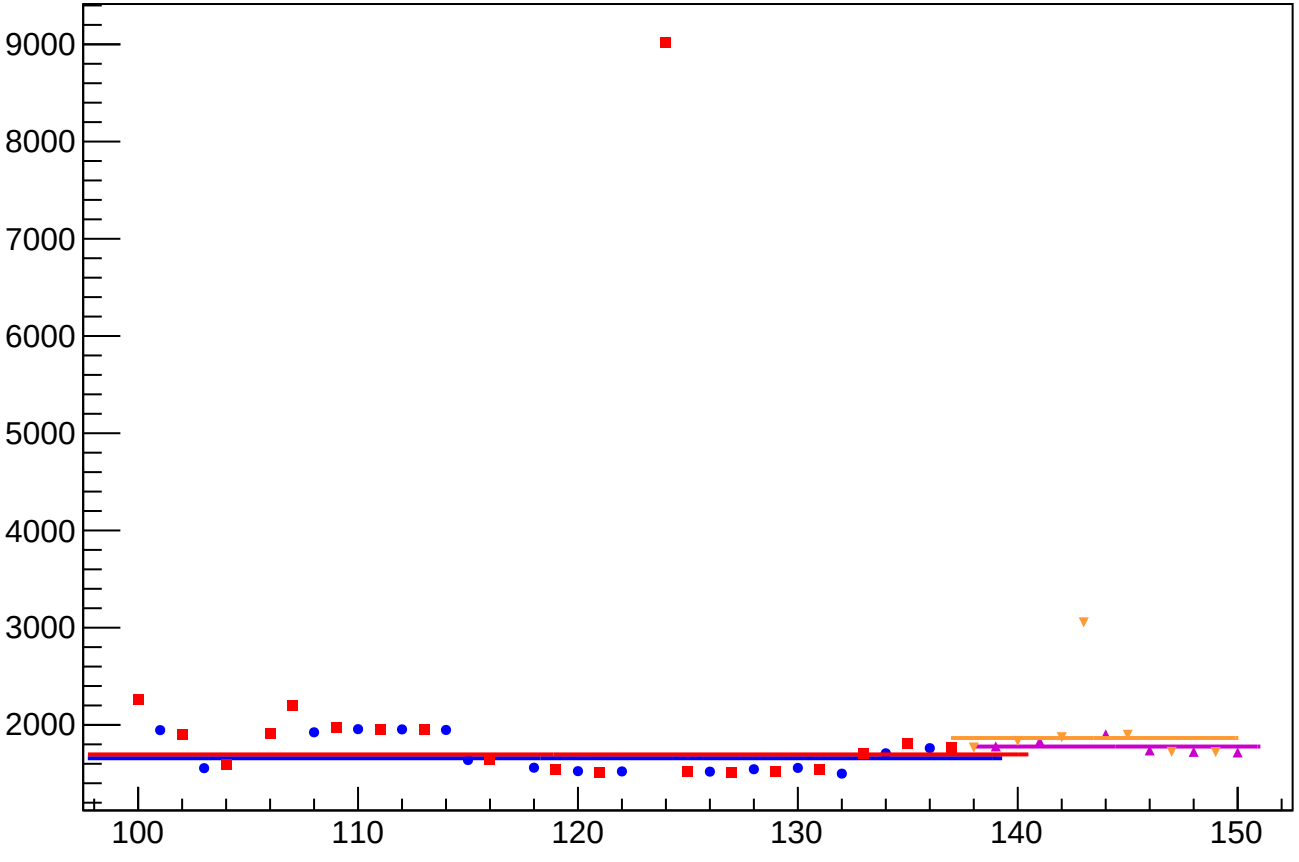
Right: -188.056+/-443.132 $\chi^2$/NDF: 36.7/34

In: -290.642+/-484.004 $\chi^2$/NDF:13.8/21

Out: -163.608+/-500.594 $\chi^2$/NDF:38.8/25

All: -229.265+/-347.960 $\chi^2$/NDF: 52.7/47

# eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1864.947+/-0.577 $\chi^2$/NDF:276477.6/6

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1777.403+/-0.548 $\chi^2$/NDF:14221.4/5

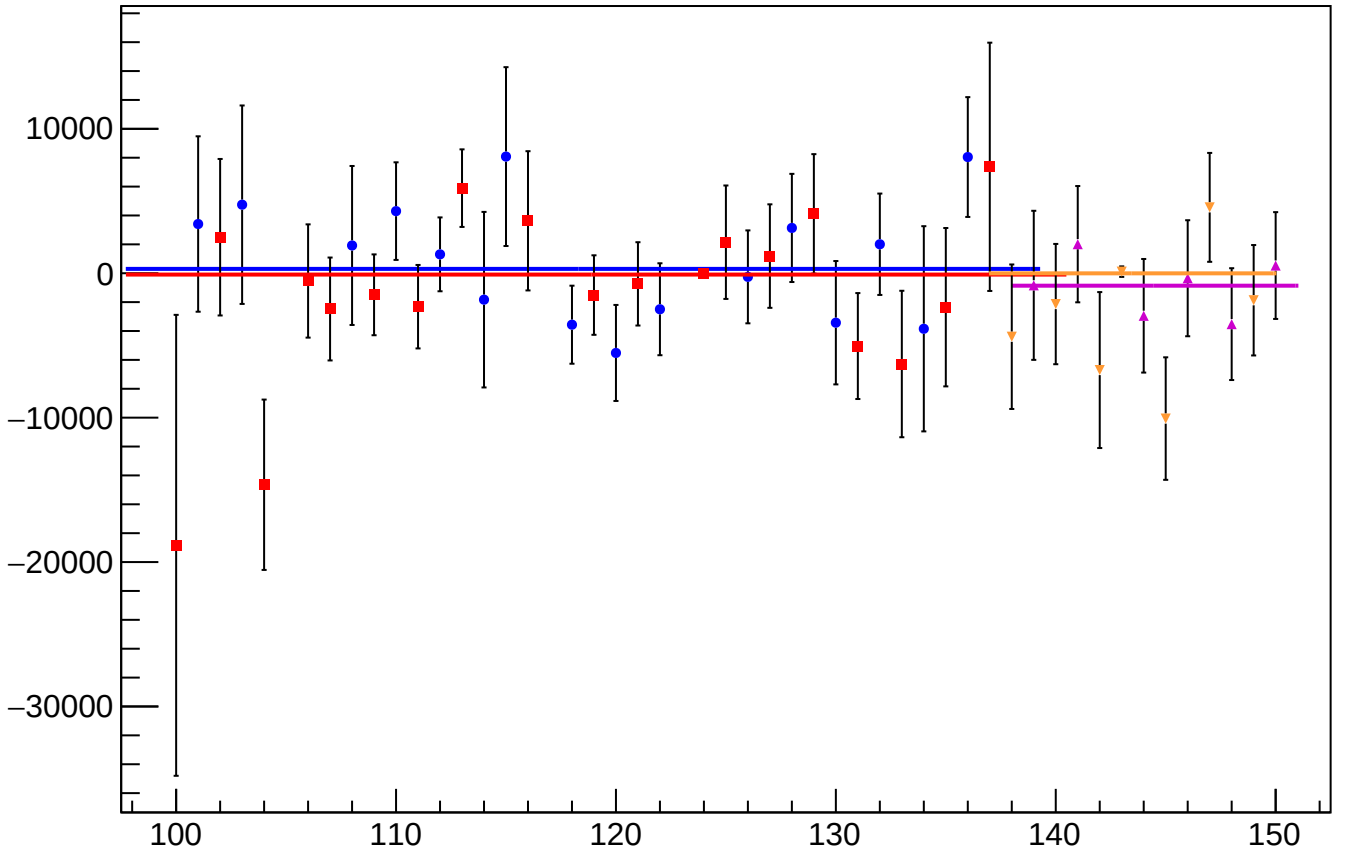
Left: 1818.876+/-0.397 $\chi^2$/NDF: 302800.2/12

Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1704.078+/-0.342 $\chi^2$/NDF:187600.9/21

Out: 1759.464+/-0.353 $\chi^2$/NDF:717782.8/25

All: 1730.909+/-0.246 $\chi^2$/NDF: 918071.6/47




Right In: 301.839+/-960.952 $\chi^2$/NDF: 15.3/15

Left Out: -7.228+/-356.469 $\chi^2$/NDF:10.0/6

Right Out: -92.243+/-315.757 $\chi^2$/NDF: 20.6/18

Left In: -862.017+/-1653.599 $\chi^2$/NDF:1.4/5

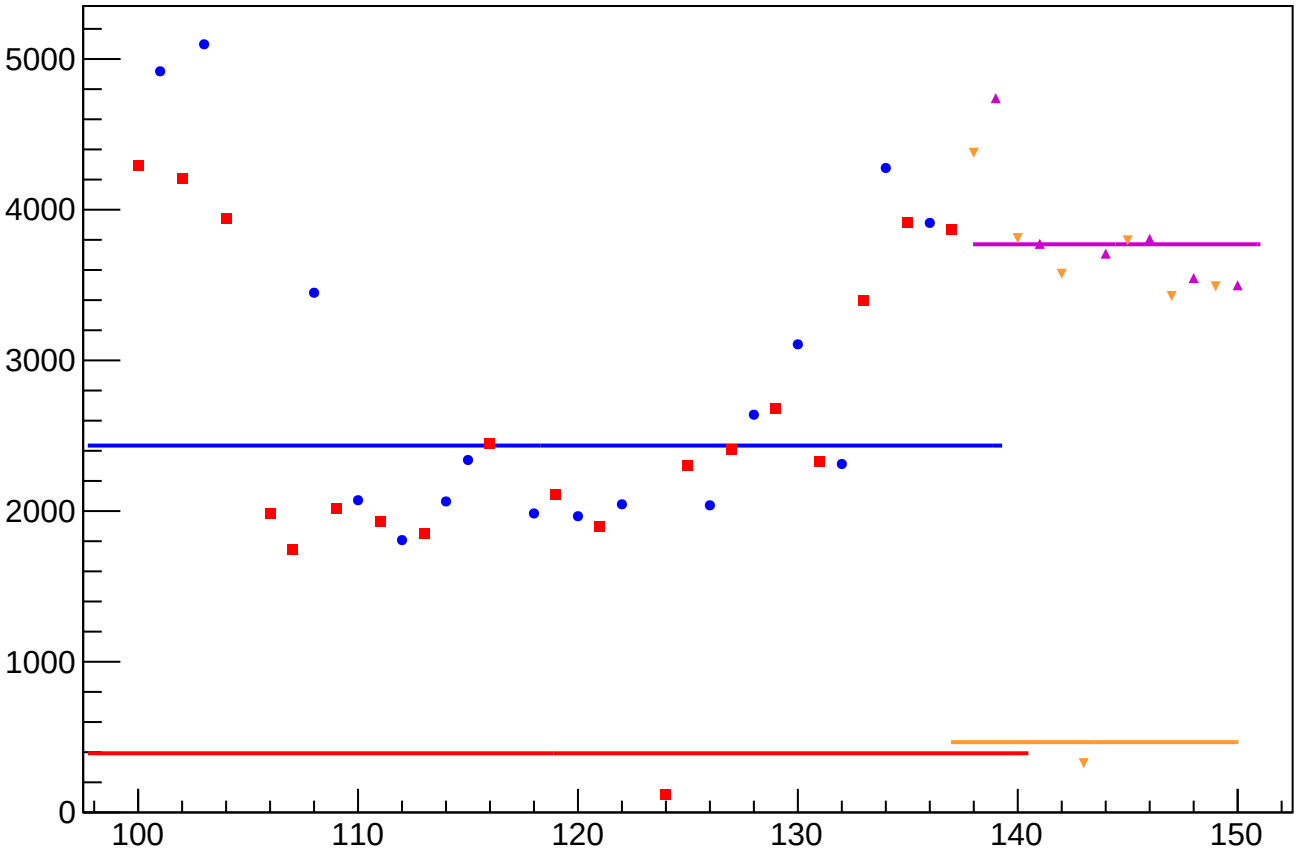
Left: -45.187+/-348.464 $\chi^2$/NDF: 11.7/12

Right: -53.840+/-299.978 $\chi^2$/NDF: 36.1/34

In: 8.019+/-830.847 $\chi^2$/NDF:17.1/21

Out: -54.865+/-236.363 $\chi^2$/NDF:30.7/25

All: -50.157+/-227.342 $\chi^2$/NDF: 47.8/47




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 466.568+/-0.252 $\chi^2$/NDF:7188406.4/6

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 3770.543+/-1.169 $\chi^2$/NDF:88830.1/5

Left: 613.289+/-0.246 $\chi^2$/NDF: 14907083.3/12

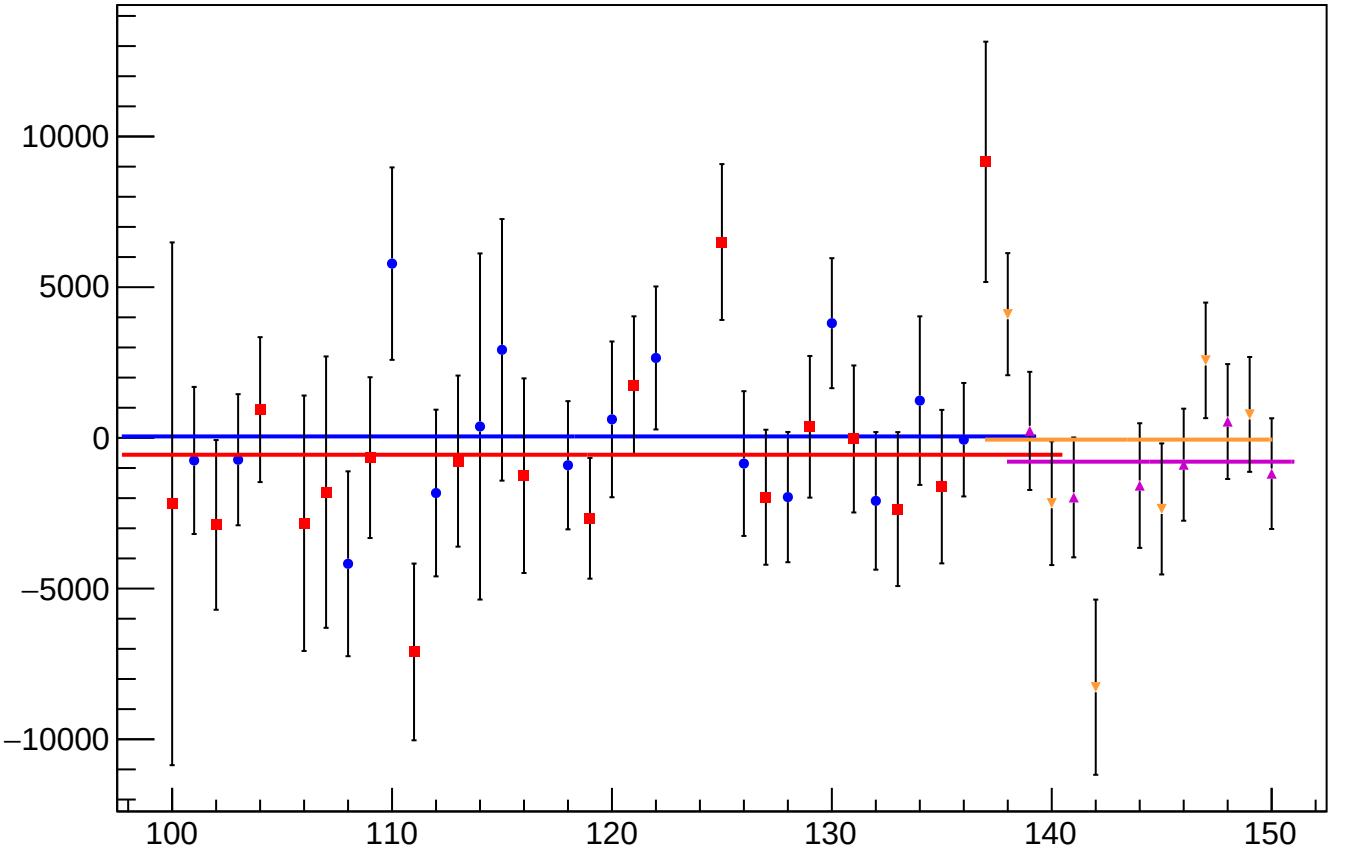
Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

In: 2771.982+/-0.587 $\chi^2$/NDF:2520477.1/21

Out: 425.157+/-0.167 $\chi^2$/NDF:18644580.5/25

All: 600.869+/-0.161 $\chi^2$/NDF: 35927261.3/47

# dit_asym_atl_dd_mean vs Slug, Sign Corrected




Right In: 48.331+/-626.151 $\chi^2$/NDF: 12.8/15

Left Out: -57.531+/-857.998 $\chi^2$/NDF:16.5/5

Right Out: -559.598+/-645.291 $\chi^2$/NDF: 23.3/17

Left In: -789.387+/-788.619 $\chi^2$/NDF:1.3/5

Left: -454.241+/-580.618 $\chi^2$/NDF: 18.2/11

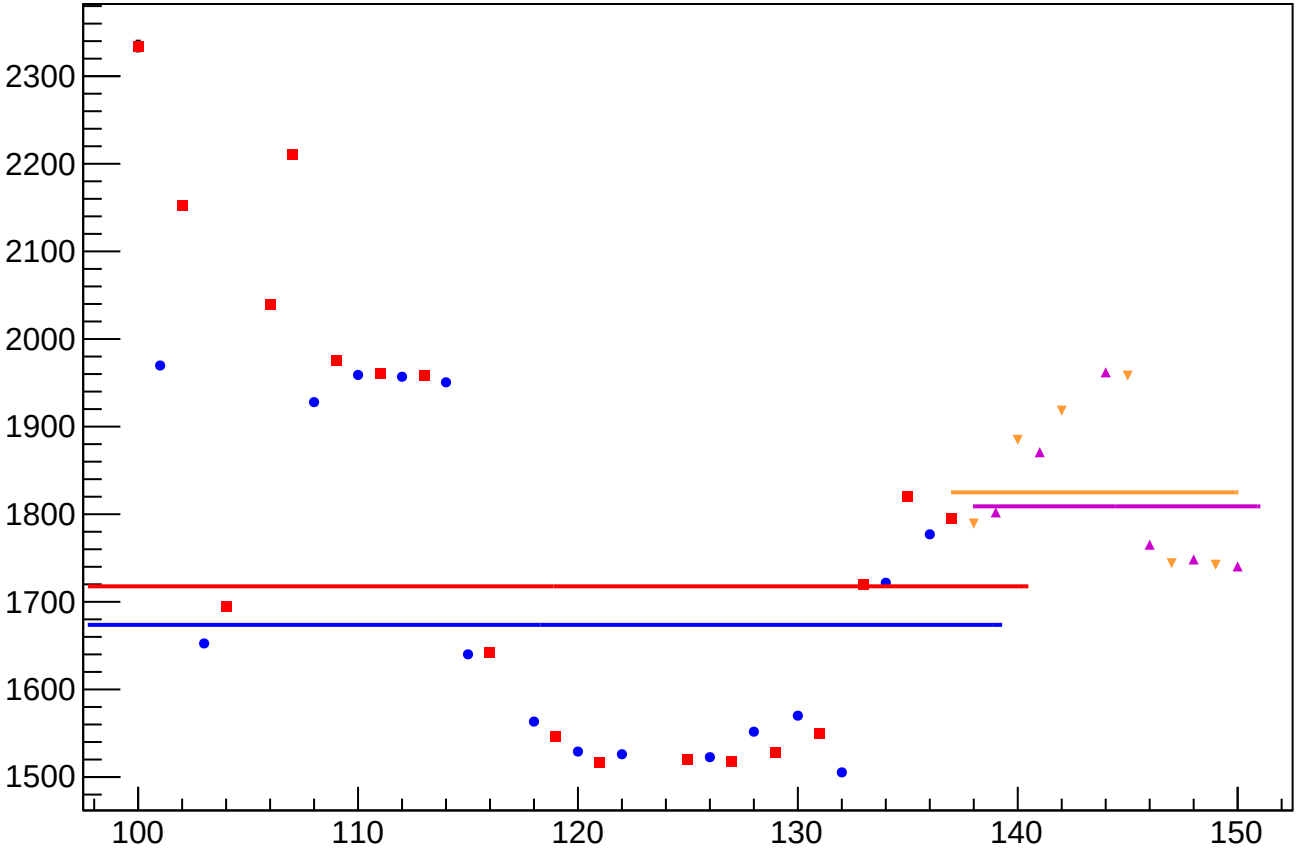
Right: -246.484+/-449.370 $\chi^2$/NDF: 36.5/33

In: -275.579+/-490.377 $\chi^2$/NDF:14.8/21

Out: -378.210+/-515.715 $\chi^2$/NDF:40.0/23

All: -324.311+/-355.369 $\chi^2$/NDF: 54.8/45

# dit_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1673.729+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1824.955+/-0.607 $\chi^2$/NDF:19225.1/5

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227642.0/17

Left In: 1808.979+/-0.558 $\chi^2$/NDF:18821.0/5

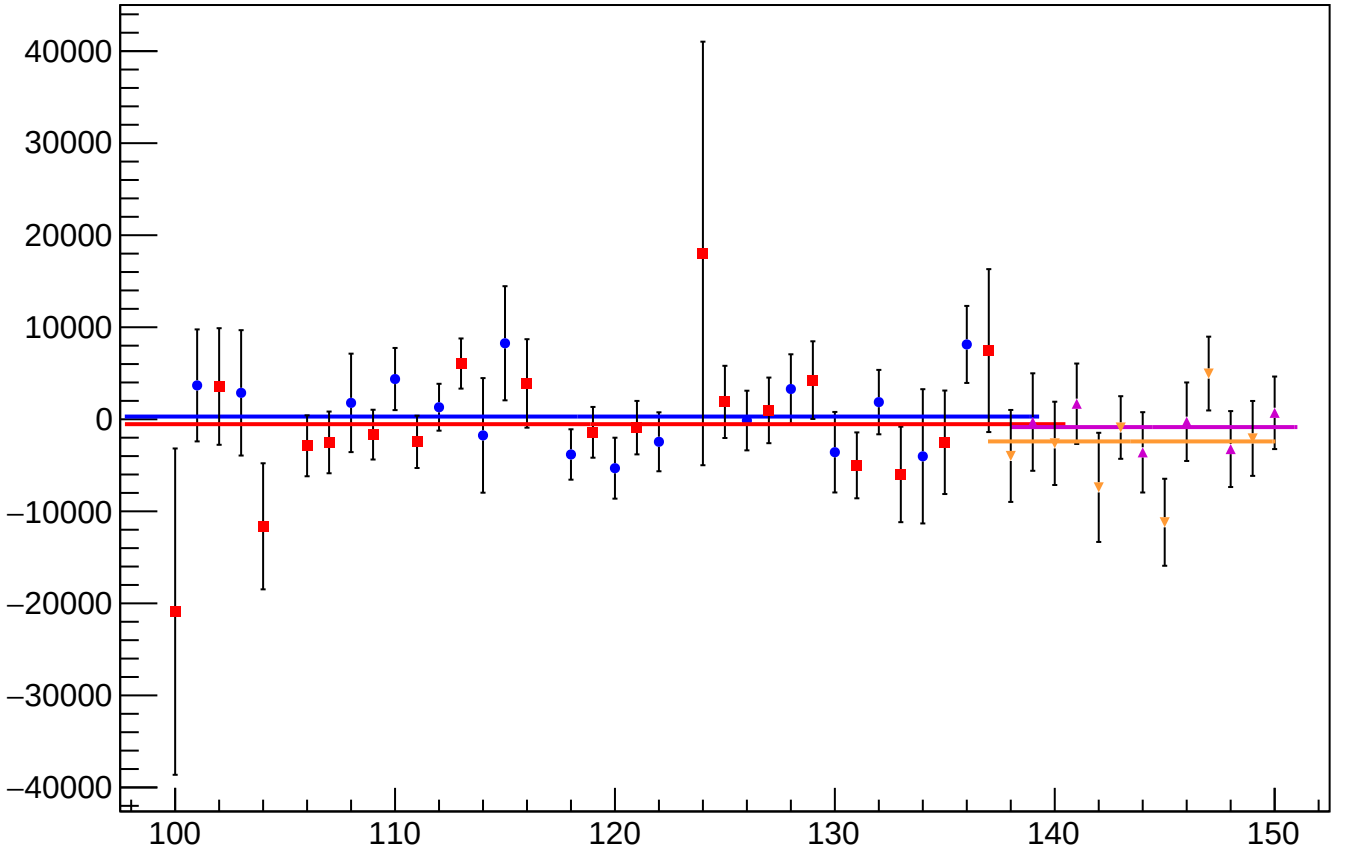
Left: 1816.295+/-0.411 $\chi^2$/NDF: 38422.0/11

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373312.6/33

In: 1726.024+/-0.347 $\chi^2$/NDF:195775.0/21

Out: 1756.343+/-0.364 $\chi^2$/NDF:266857.4/23

All: 1740.443+/-0.251 $\chi^2$/NDF: 466268.4/45




Right In: 296.517+/-964.677 $\chi^2$/NDF: 15.3/15

Left Out: -2404.576+/-1641.486 $\chi^2$/NDF:7.9/6

Right Out: -531.007+/-883.969 $\chi^2$/NDF: 18.8/18

Left In: -847.432+/-1771.365 $\chi^2$/NDF:1.3/5

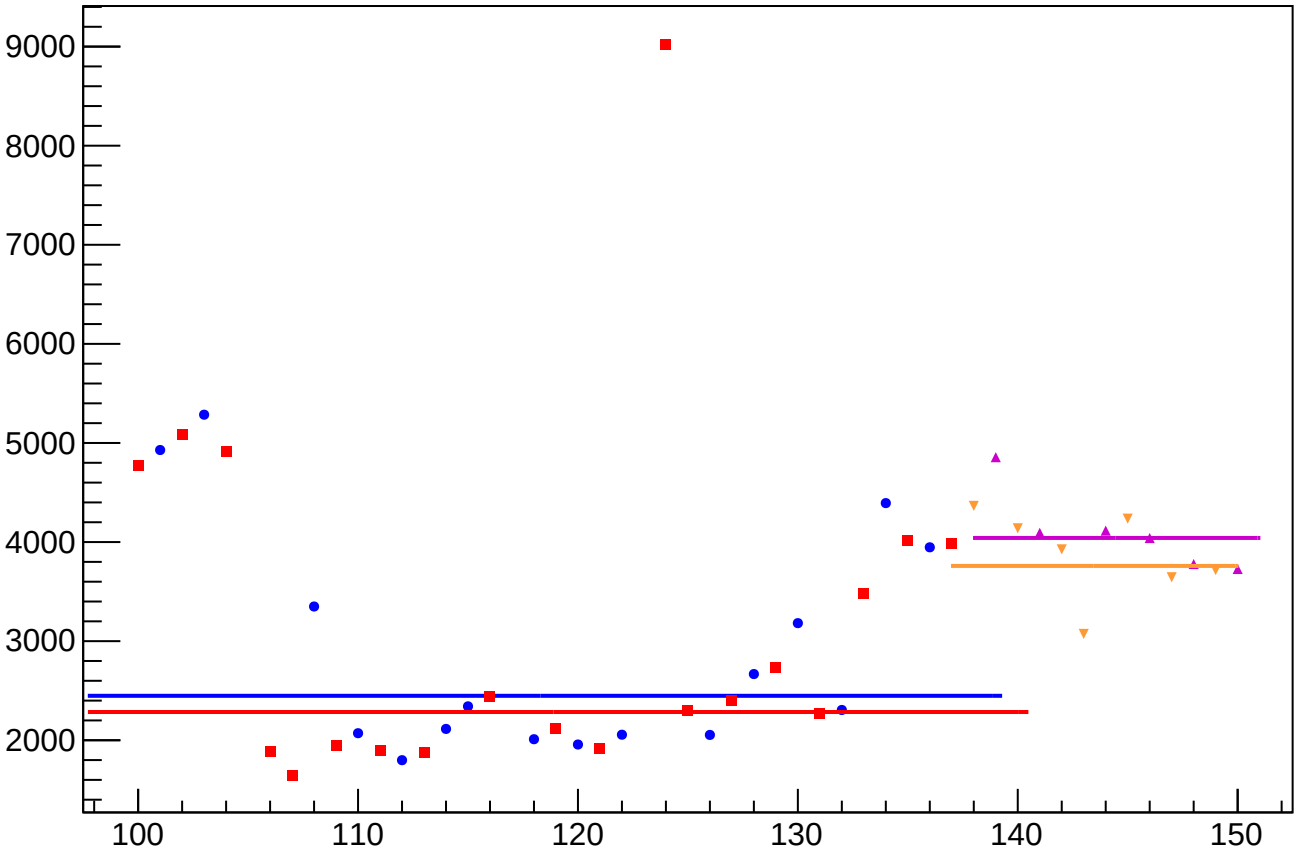
Left: -1685.176+/-1204.006 $\chi^2$/NDF: 9.5/12

Right: -153.305+/-651.728 $\chi^2$/NDF: 34.4/34

In: 34.847+/-847.192 $\chi^2$/NDF:16.8/21

Out: -952.198+/-778.291 $\chi^2$/NDF:27.6/25

All: -500.439+/-573.148 $\chi^2$/NDF: 45.2/47




Right In: 2448.598+/-0.682 $\chi^2$/NDF: 1517585.7/15

Left Out: 3759.195+/-1.161 $\chi^2$/NDF:148680.2/6

Right Out: 2285.075+/-0.625 $\chi^2$/NDF: 1548819.2/18

Left In: 4041.572+/-1.253 $\chi^2$/NDF:68979.9/5

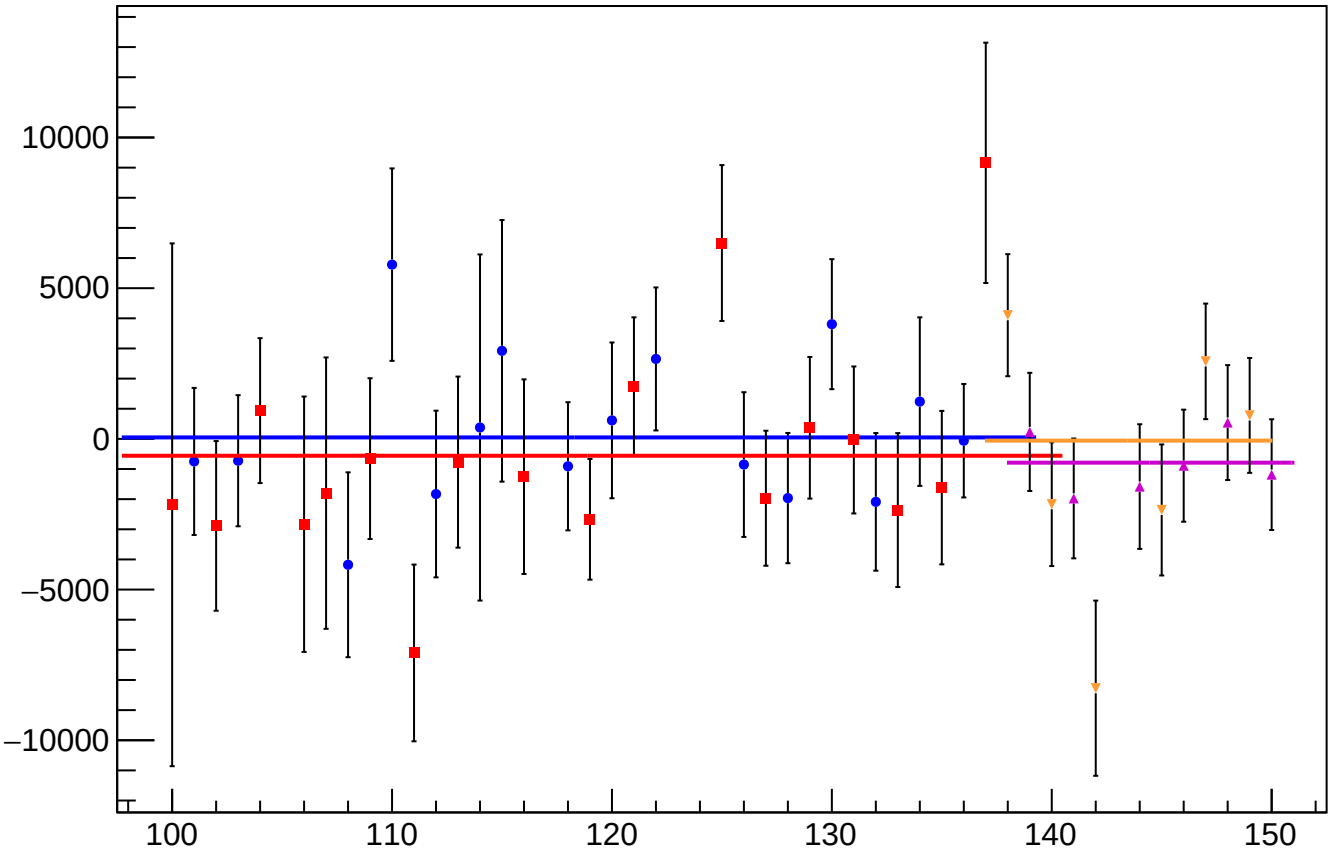
Left: 3889.653+/-0.851 $\chi^2$/NDF: 245003.6/12

Right: 2359.711+/-0.461 $\chi^2$/NDF: 3097643.0/34

In: 2812.979+/-0.599 $\chi^2$/NDF:2834037.7/21

Out: 2616.467+/-0.550 $\chi^2$/NDF:2947849.1/25

All: 2706.408+/-0.405 $\chi^2$/NDF: 5840244.2/47




Right In: 48.329+/-626.151 $\chi^2$/NDF: 12.8/15

Left Out: -57.539+/-857.998 $\chi^2$/NDF:16.5/5

Right Out: -559.600+/-645.291 $\chi^2$/NDF: 23.3/17

Left In: -789.389+/-788.619 $\chi^2$/NDF:1.3/5

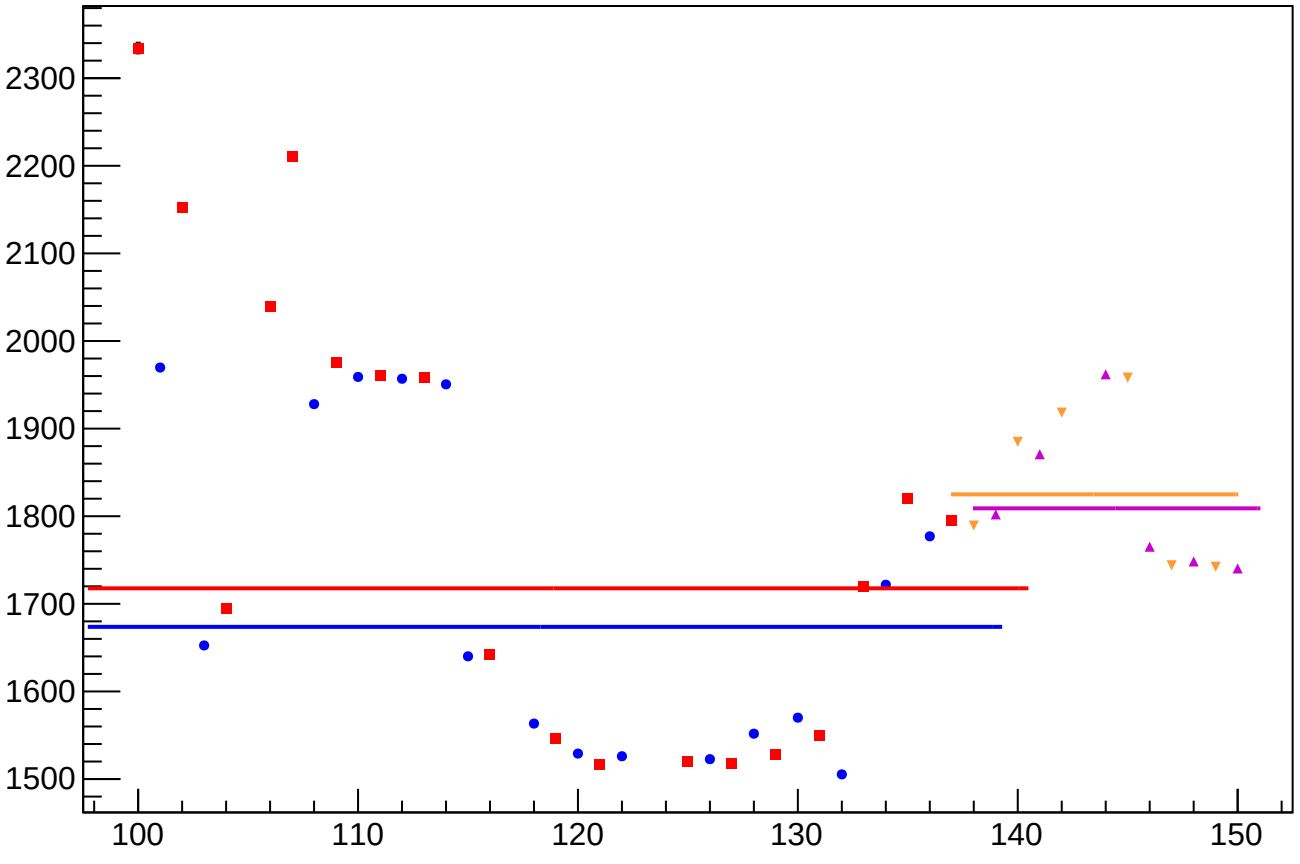
Left: -454.246+/-580.618 $\chi^2$/NDF: 18.2/11

Right: -246.486+/-449.370 $\chi^2$/NDF: 36.5/33

In: -275.581+/-490.377 $\chi^2$/NDF:14.8/21

Out: -378.214+/-515.715 $\chi^2$/NDF:40.0/23

All: -324.315+/-355.369 $\chi^2$/NDF: 54.8/45




Right In: 1673.728+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1824.956+/-0.607 $\chi^2$/NDF:19225.6/5

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227641.3/17

Left In: 1808.980+/-0.558 $\chi^2$/NDF:18821.2/5

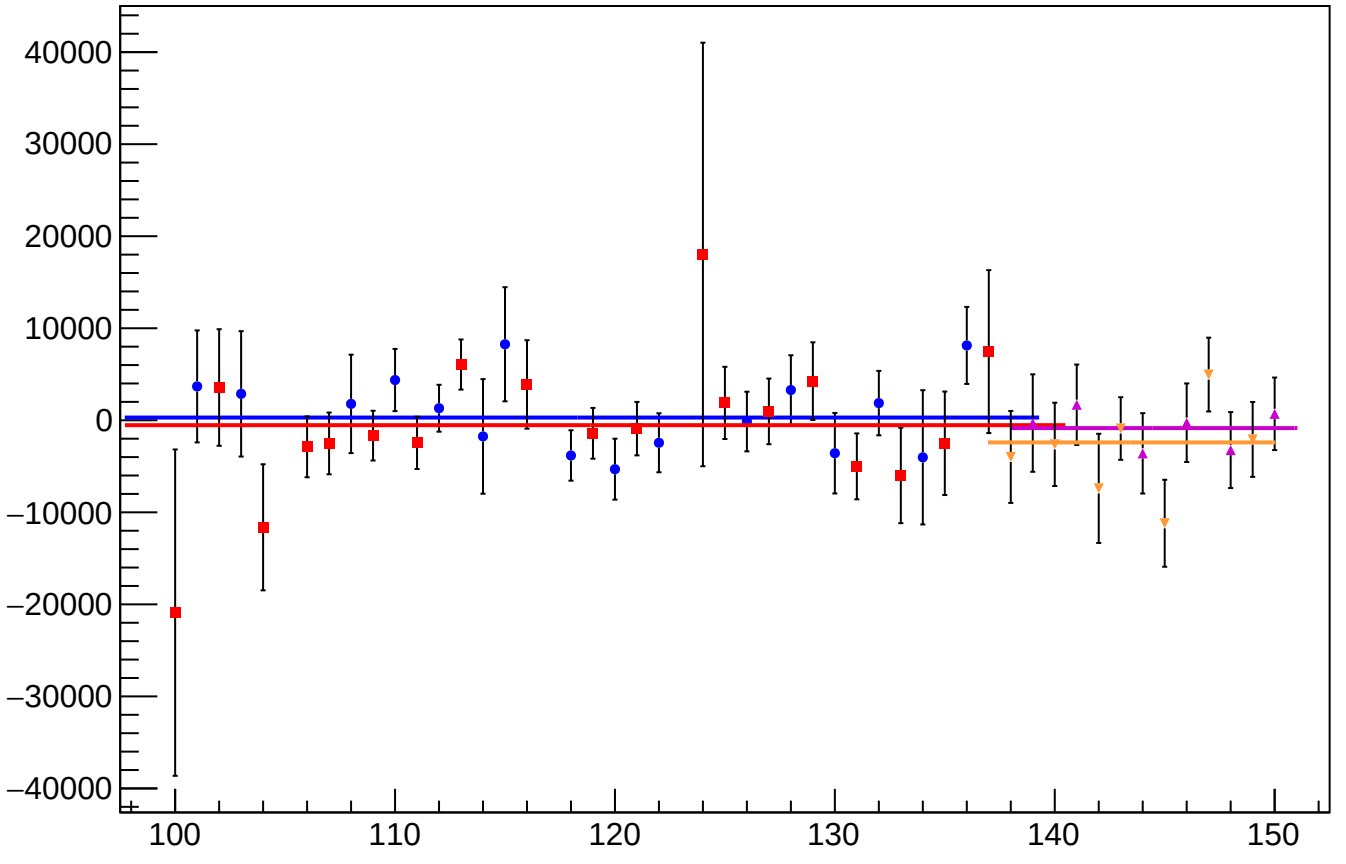
Left: 1816.296+/-0.411 $\chi^2$/NDF: 38422.7/11

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373311.9/33

In: 1726.024+/-0.347 $\chi^2$/NDF:195775.8/21

Out: 1756.343+/-0.364 $\chi^2$/NDF:266857.5/23

All: 1740.443+/-0.251 $\chi^2$/NDF: 466269.2/45




Right In: 296.511+/-964.673 $\chi^2$/NDF: 15.3/15

Left Out: -2404.574+/-1641.488 $\chi^2$/NDF:7.9/6

Right Out: -531.009+/-883.966 $\chi^2$/NDF: 18.8/18

Left In: -847.433+/-1771.367 $\chi^2$/NDF:1.3/5

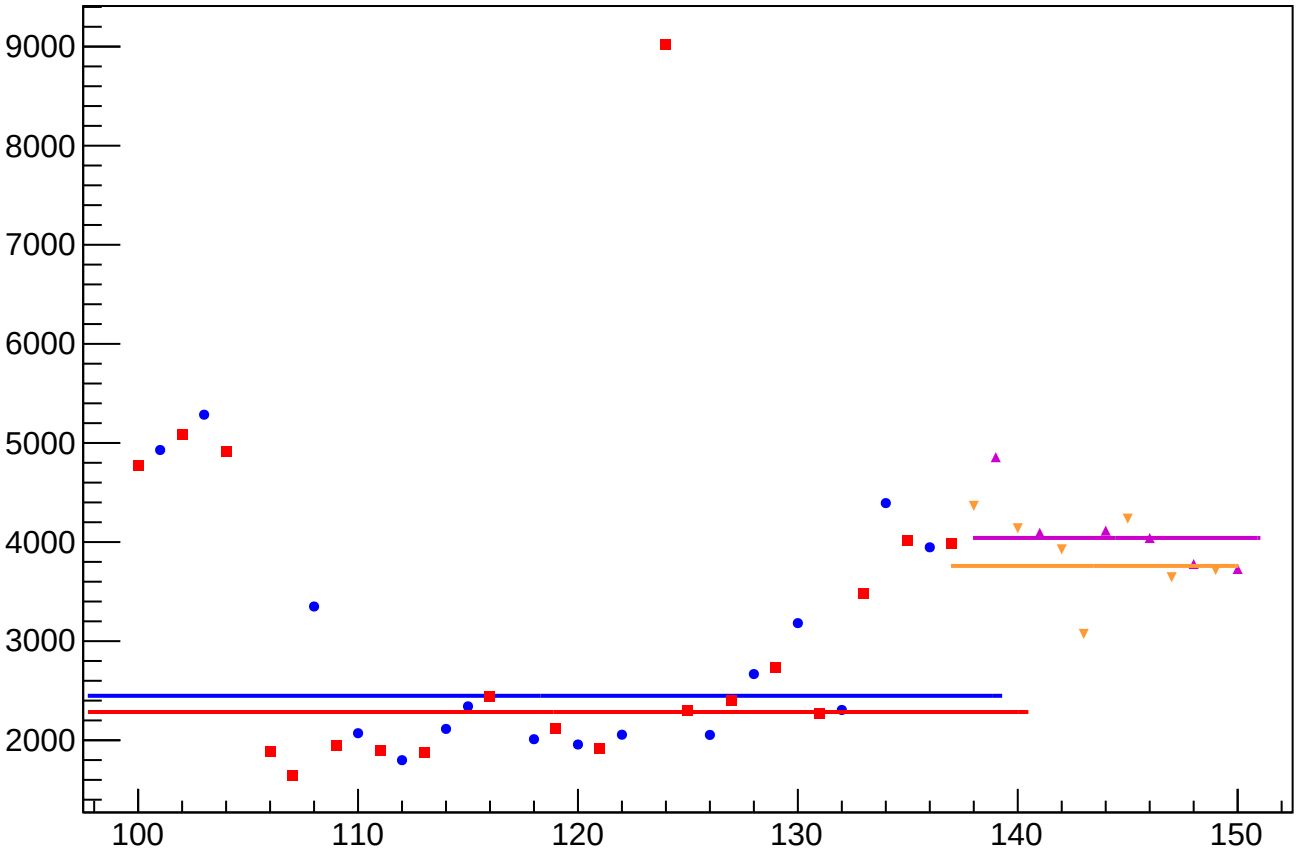
Left: -1685.176+/-1204.007 $\chi^2$/NDF: 9.5/12

Right: -153.308+/-651.726 $\chi^2$/NDF: 34.4/34

In: 34.844+/-847.189 $\chi^2$/NDF:16.8/21

Out: -952.196+/-778.289 $\chi^2$/NDF:27.6/25

All: -500.439+/-573.146 $\chi^2$/NDF: 45.2/47




Right In: 2448.587+/-0.682 $\chi^2$/NDF: 1517598.4/15

Left Out: 3759.199+/-1.161 $\chi^2$/NDF:148683.3/6

Right Out: 2285.066+/-0.625 $\chi^2$/NDF: 1548827.3/18

Left In: 4041.577+/-1.253 $\chi^2$/NDF:68982.0/5

Left: 3889.657+/-0.851 $\chi^2$/NDF: 245008.9/12

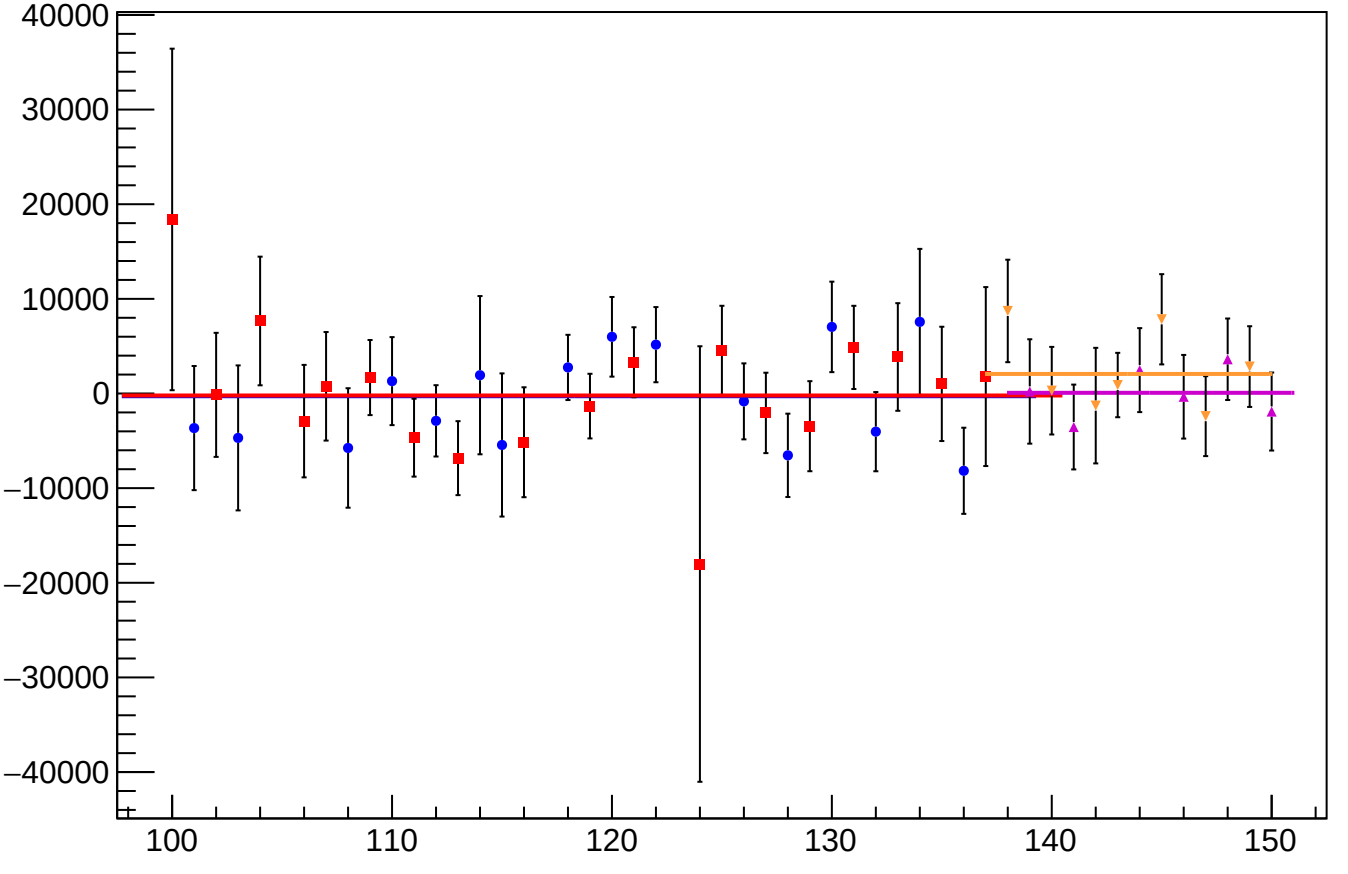
Right: 2359.701+/-0.461 $\chi^2$/NDF: 3097663.3/34

In: 2812.969+/-0.599 $\chi^2$/NDF:2834076.4/21

Out: 2616.459+/-0.550 $\chi^2$/NDF:2947881.4/25

All: 2706.399+/-0.405 $\chi^2$/NDF: 5840314.4/47

# asym_atl_dd_mean vs Slug, Sign Corrected




Right In: -287.276+/-1197.339 $\chi^2$/NDF: 16.6/15

Left Out: 2066.270+/-1692.281 $\chi^2$/NDF:4.7/6

Right Out: -209.473+/-1153.742 $\chi^2$/NDF: 12.9/18

Left In: 72.402+/-1833.432 $\chi^2$/NDF:1.9/5

Left: 1149.032+/-1243.534 $\chi^2$/NDF: 7.2/12

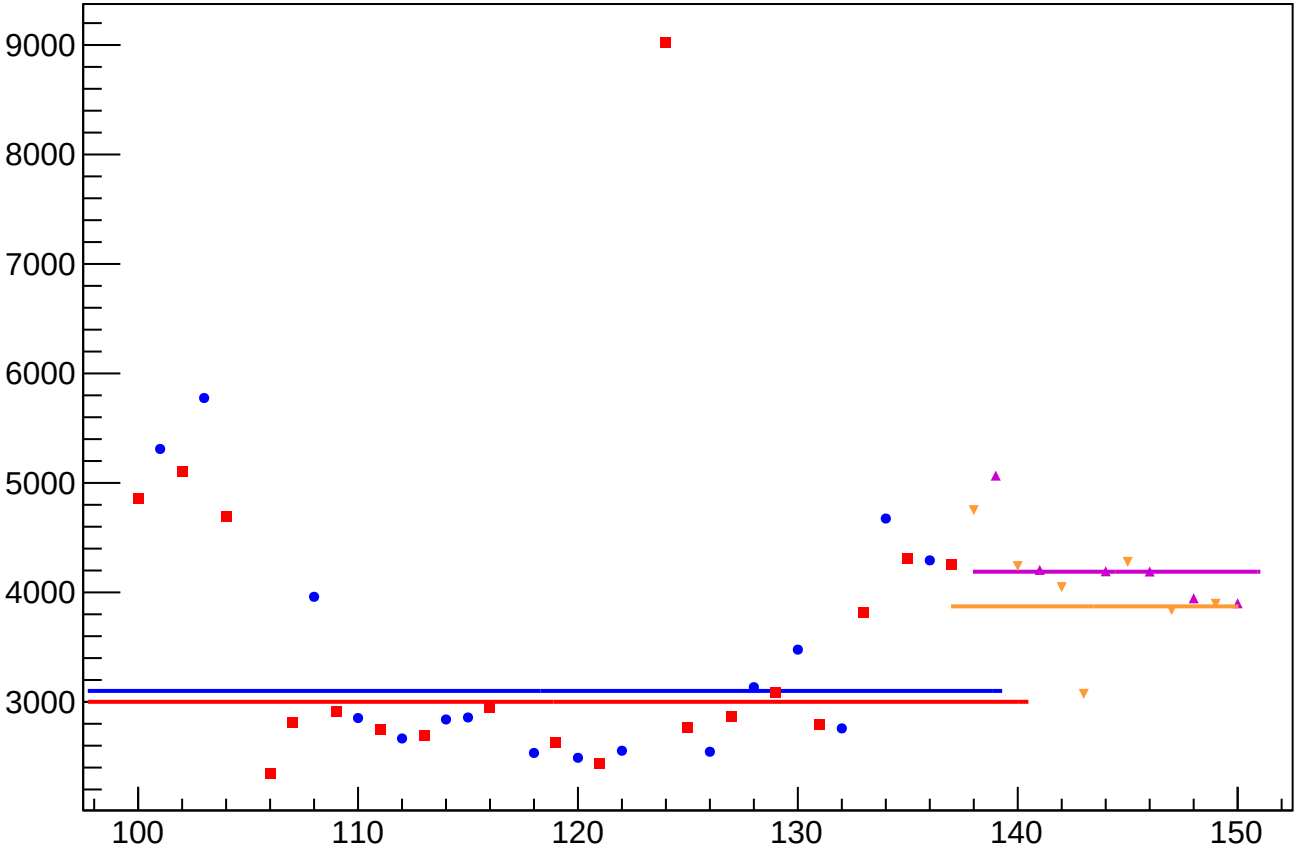
Right: -246.932+/-830.804 $\chi^2$/NDF: 29.4/34

In: -179.740+/-1002.498 $\chi^2$/NDF:18.5/21

Out: 512.657+/-953.276 $\chi^2$/NDF:18.8/25

All: 183.873+/-690.814 $\chi^2$/NDF: 37.5/47

# asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 3100.135+/-0.847 $\chi^2$/NDF: 963669.6/15

Left Out: 3872.223+/-1.197 $\chi^2$/NDF:191964.0/6

Right Out: 3000.750+/-0.805 $\chi^2$/NDF: 806601.4/18

Left In: 4189.000+/-1.296 $\chi^2$/NDF:66817.1/5

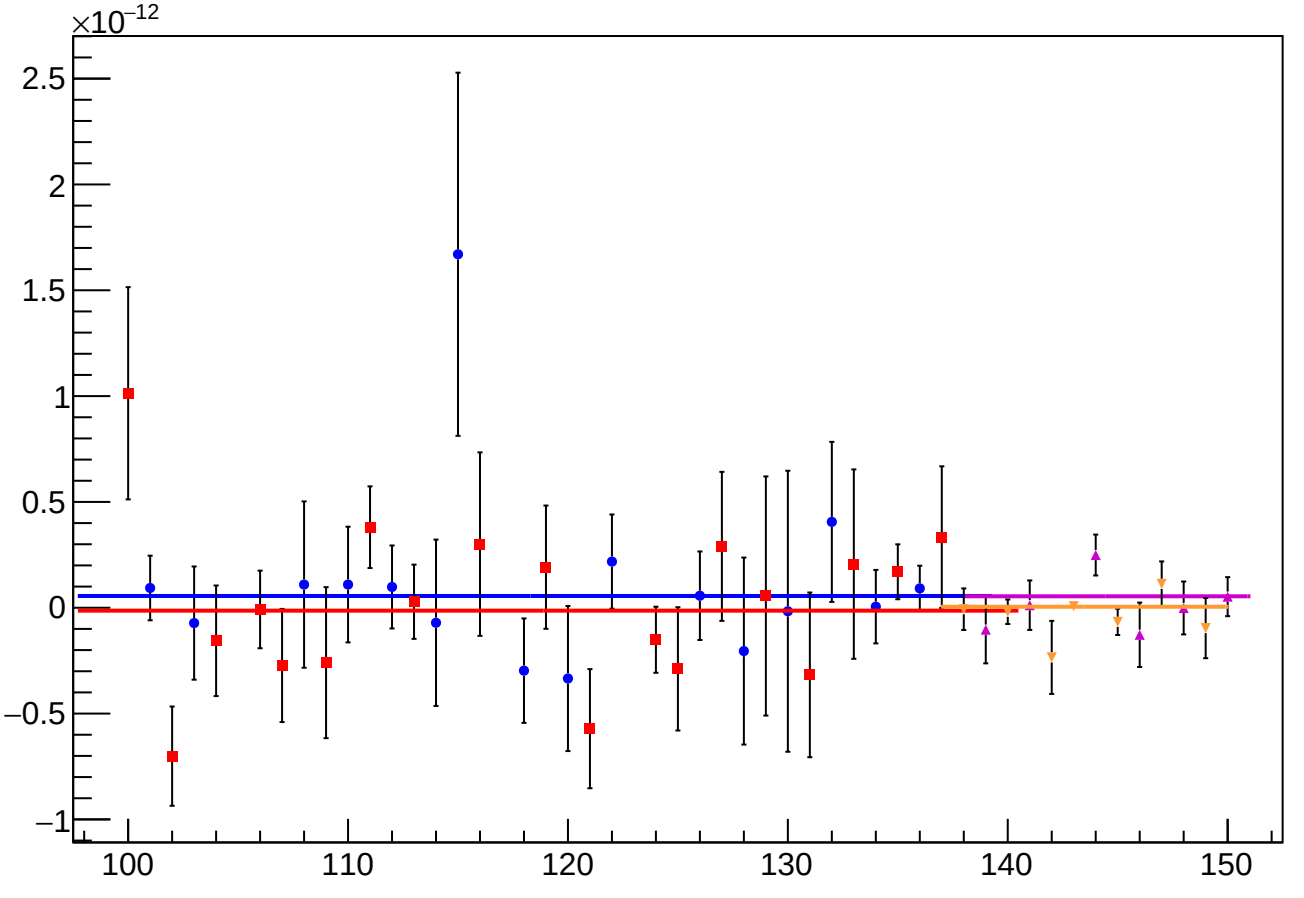
Left: 4017.950+/-0.879 $\chi^2$/NDF: 291019.9/12

Right: 3047.926+/-0.583 $\chi^2$/NDF: 1777509.7/34

In: 3425.679+/-0.709 $\chi^2$/NDF:1525004.5/21

Out: 3272.177+/-0.668 $\chi^2$/NDF:1363759.9/25

All: 3344.354+/-0.486 $\chi^2$/NDF: 2913607.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.8/5

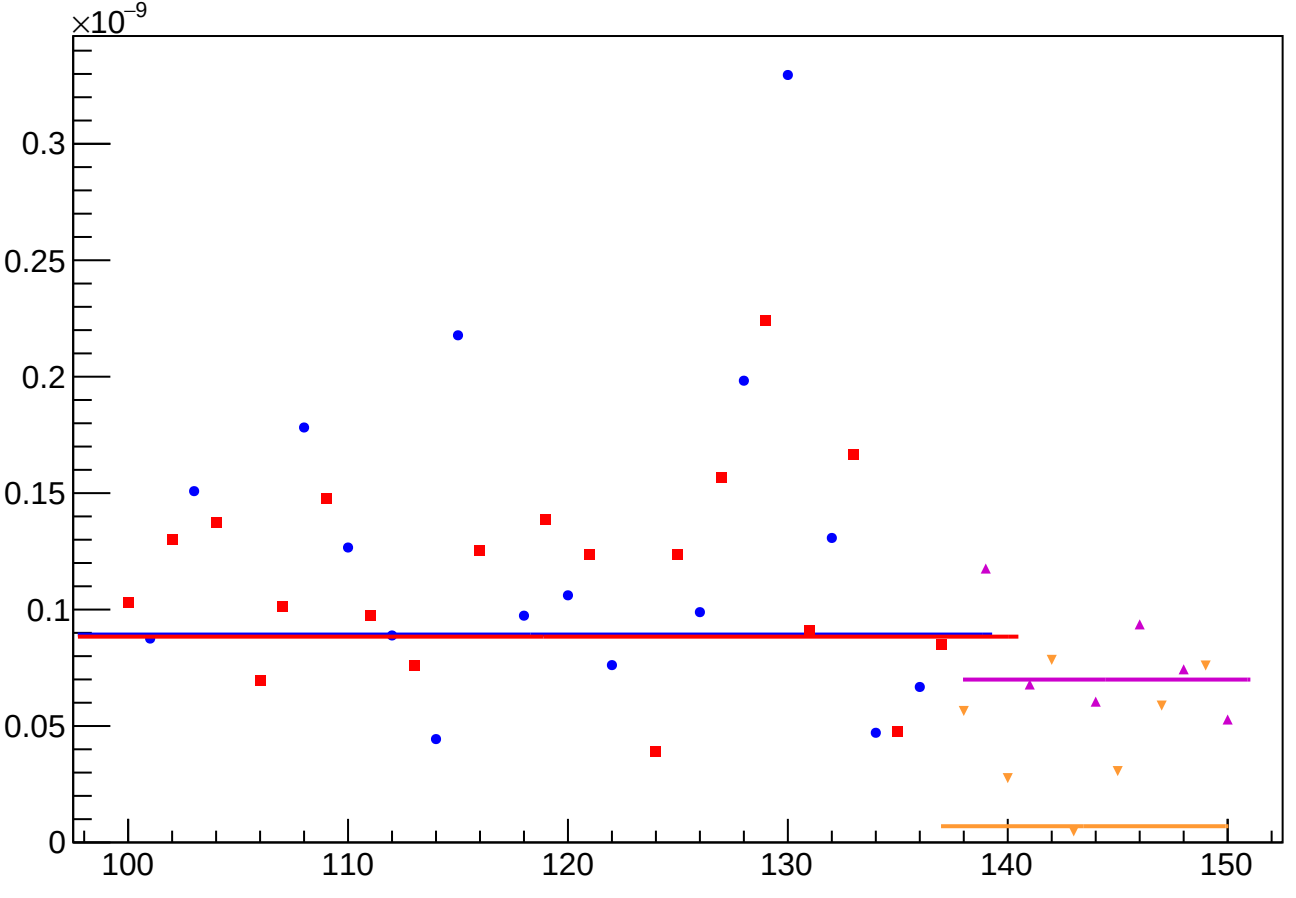
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:35.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 949608.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2467262.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1013814.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:319353.5/5

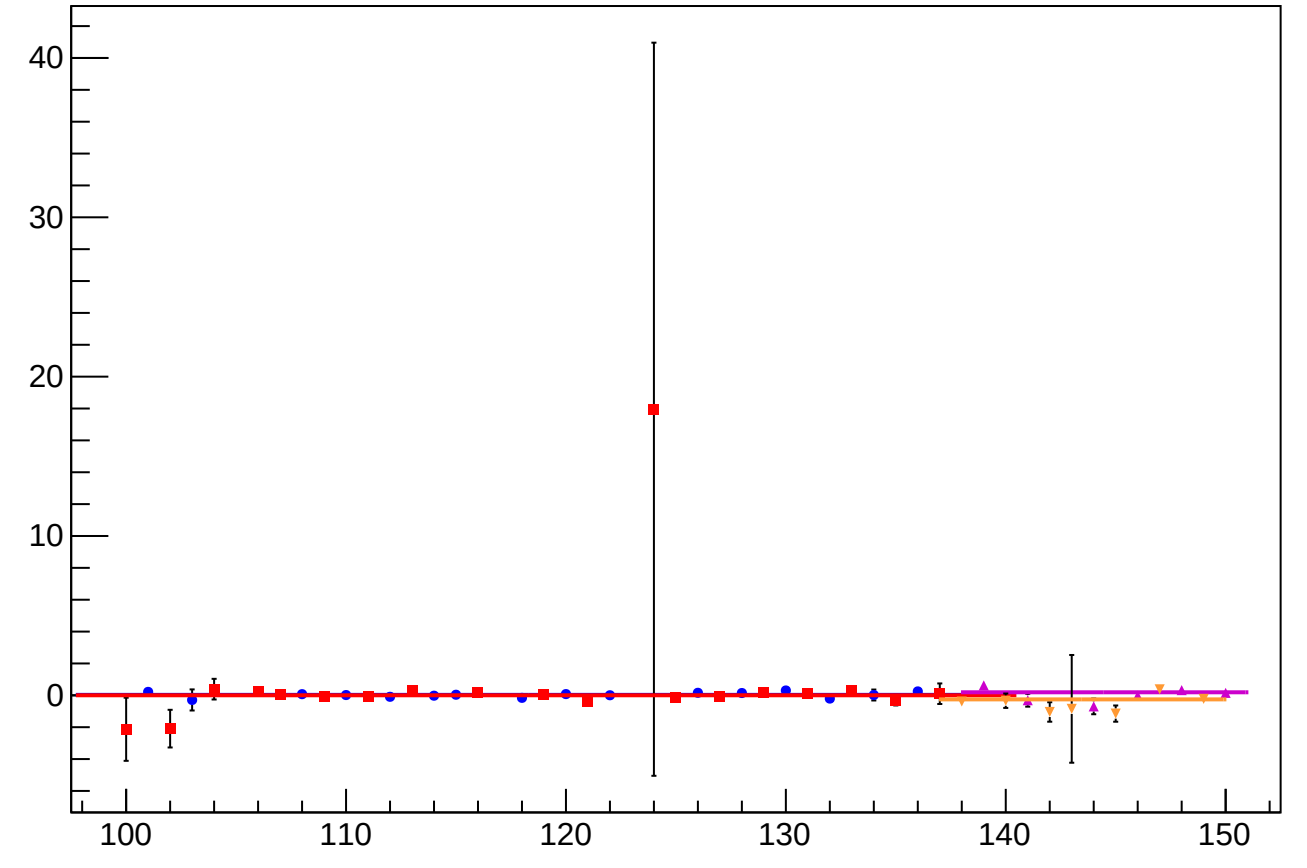
Left: 0.000+/-0.000 $\chi^2$/NDF: 6199164.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 1963677.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1406353.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:7642596.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 15896782.2/47




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.255+/-0.148 $\chi^2$/NDF:9.6/6

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.191+/-0.128 $\chi^2$/NDF:8.9/5

Left: 0.000+/-0.097 $\chi^2$/NDF: 23.6/12

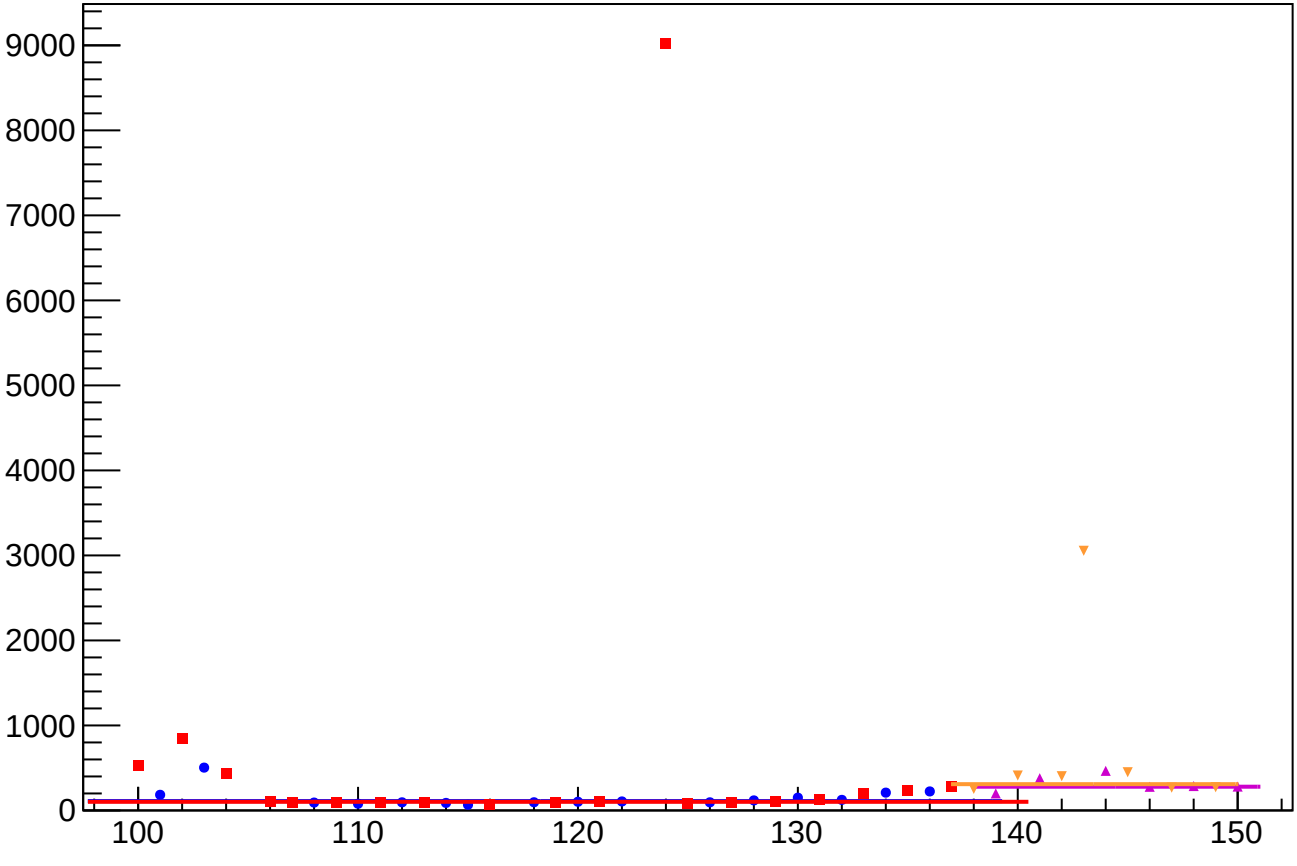
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.046+/-0.043 $\chi^2$/NDF:19.2/21

Out: -0.017+/-0.042 $\chi^2$/NDF:34.7/25

All: 0.014+/-0.030 $\chi^2$/NDF: 55.1/47

# asym_atl_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 309.302+/-0.105 $\chi^2$/NDF:1759125.0/6

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 279.363+/-0.090 $\chi^2$/NDF:640985.9/5

Left: 292.172+/-0.068 $\chi^2$/NDF: 2447059.6/12

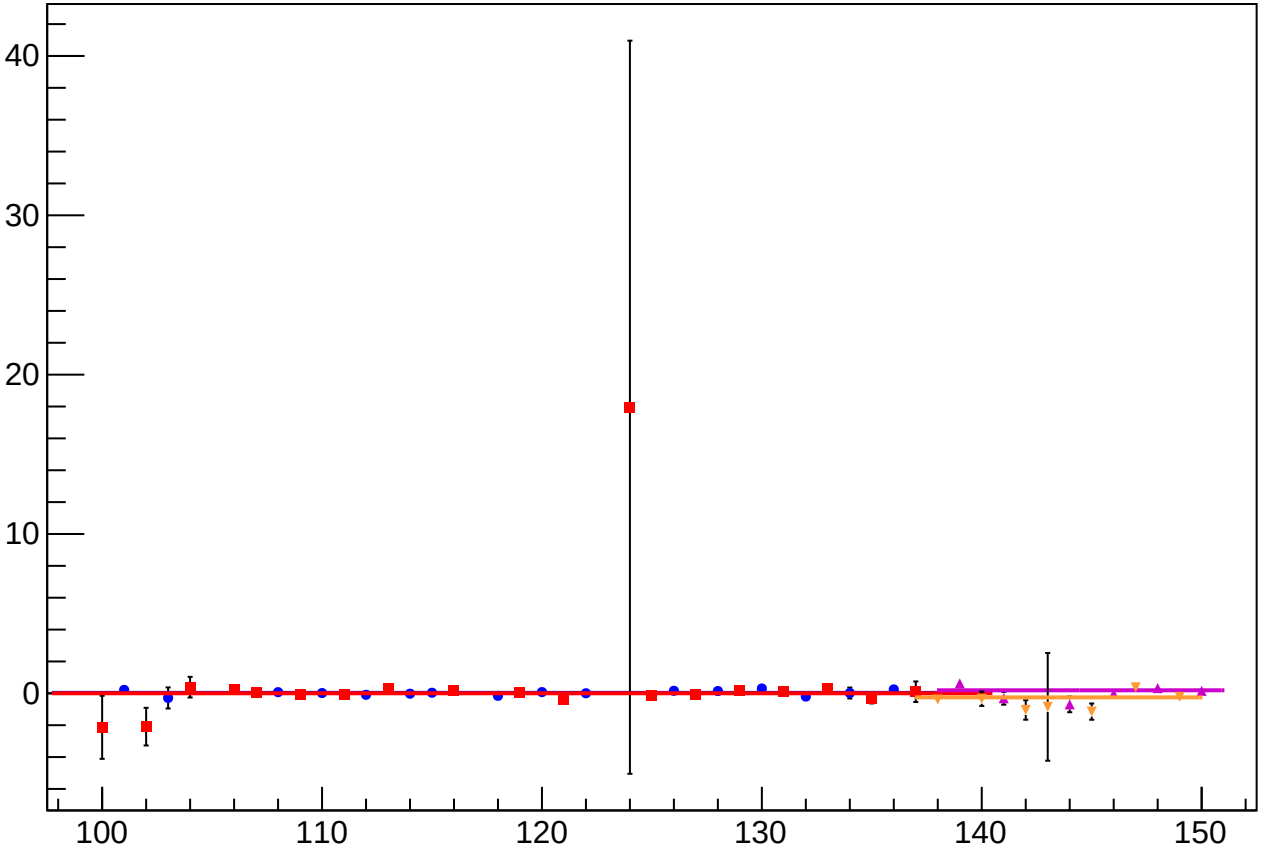
Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 128.889+/-0.030 $\chi^2$/NDF:5691595.8/21

Out: 118.298+/-0.029 $\chi^2$/NDF:7976298.6/25

All: 123.458+/-0.021 $\chi^2$/NDF: 13731006.0/47

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.255+/-0.148 $\chi^2$/NDF:9.6/6

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.191+/-0.128 $\chi^2$/NDF:8.9/5

Left: 0.000+/-0.097 $\chi^2$/NDF: 23.6/12

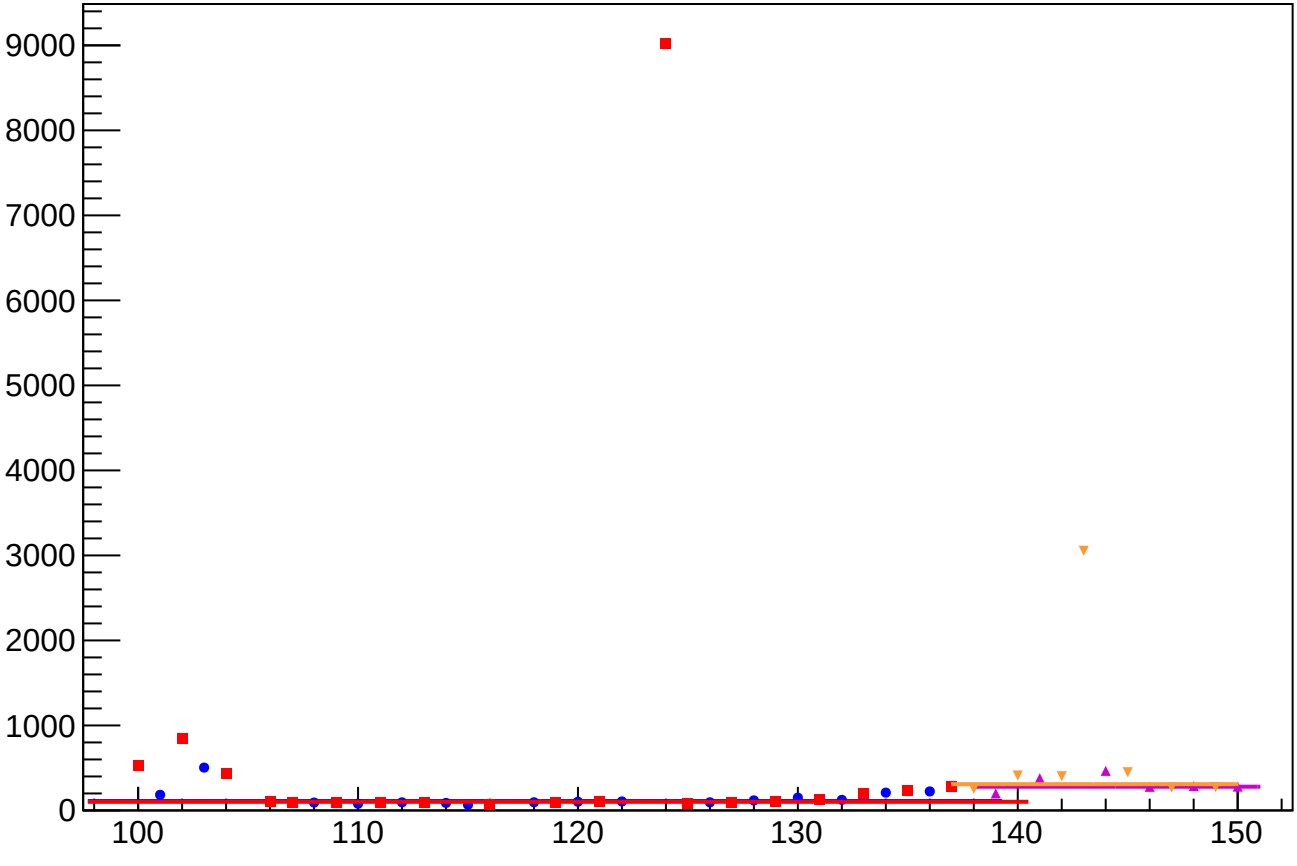
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.046+/-0.043 $\chi^2$/NDF:19.2/21

Out: -0.017+/-0.042 $\chi^2$/NDF:34.7/25

All: 0.014+/-0.030 $\chi^2$/NDF: 55.1/47

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 309.302+/-0.105 $\chi^2$/NDF:1759125.0/6

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 279.363+/-0.090 $\chi^2$/NDF:640985.9/5

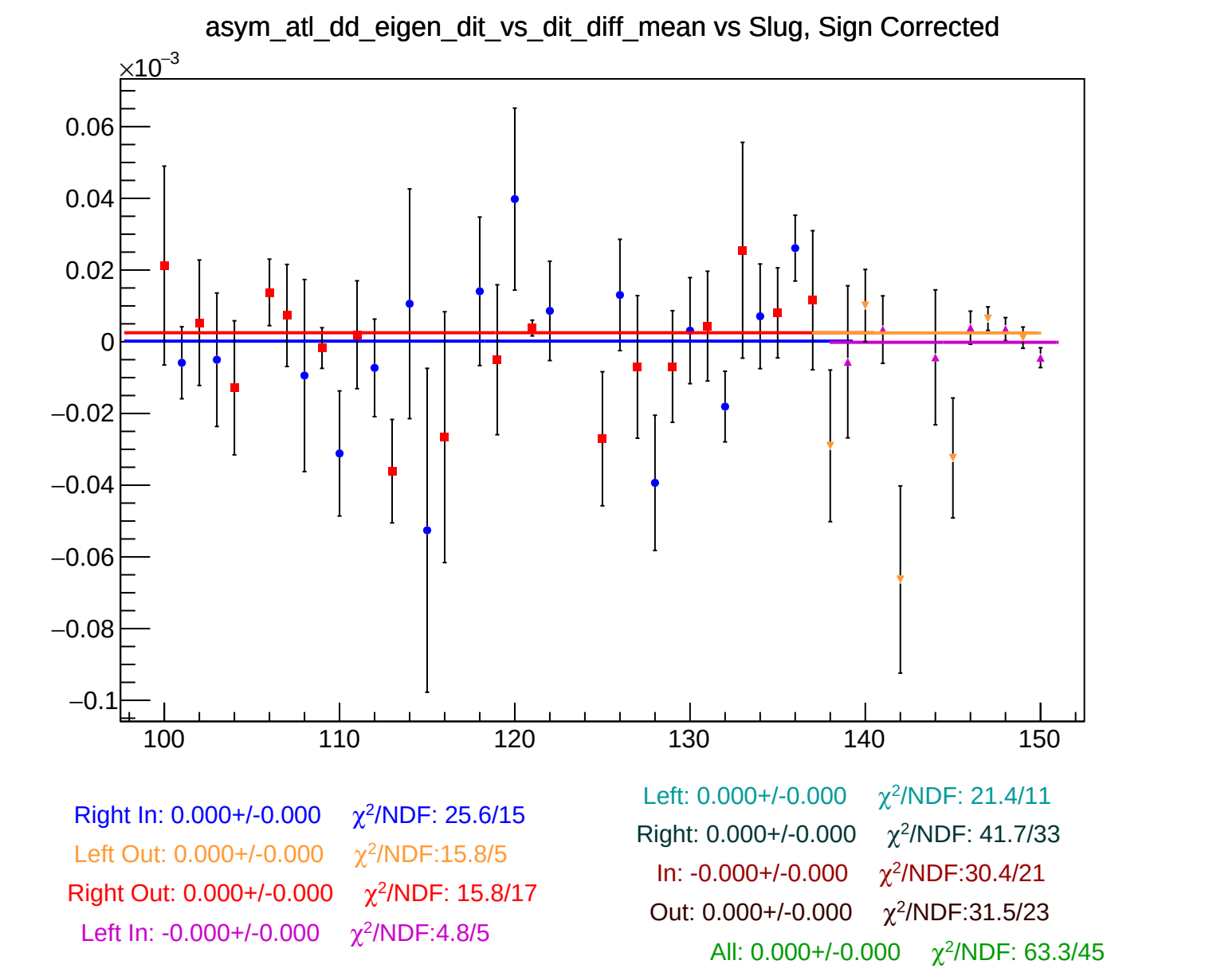
Left: 292.172+/-0.068 $\chi^2$/NDF: 2447059.6/12

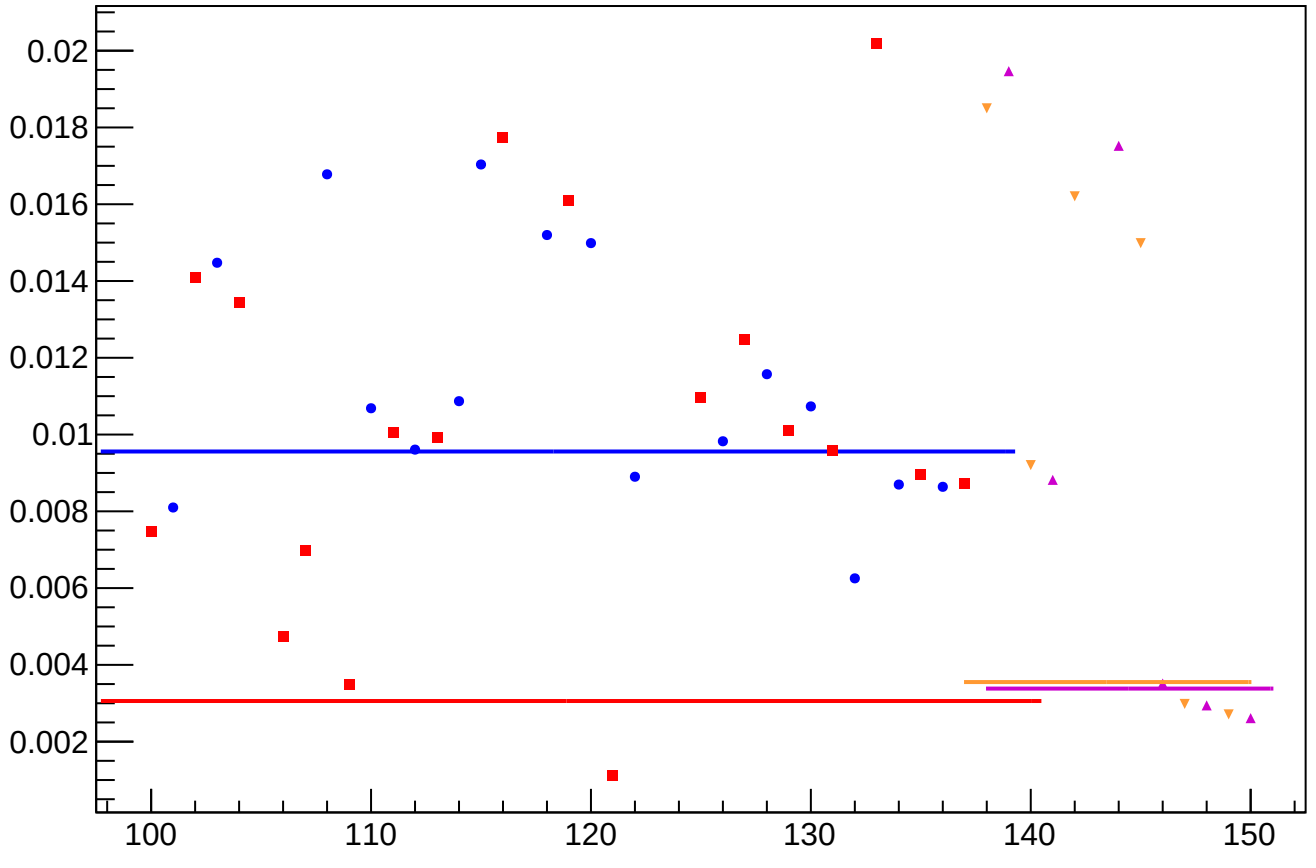
Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 128.889+/-0.030 $\chi^2$/NDF:5691595.8/21

Out: 118.298+/-0.029 $\chi^2$/NDF:7976298.6/25

All: 123.458+/-0.021 $\chi^2$/NDF: 13731006.0/47


asym_atl_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 25.6/15
Left Out: 0.000+/-0.000 χ²/NDF:15.8/5
Right Out: 0.000+/-0.000 χ²/NDF: 15.8/17
Left In: -0.000+/-0.000 χ²/NDF:4.8/5
Left: 0.000+/-0.000 χ²/NDF: 21.4/11
Right: 0.000+/-0.000 χ²/NDF: 41.7/33
In: -0.000+/-0.000 χ²/NDF:30.4/21
Out: 0.000+/-0.000 χ²/NDF:31.5/23
All: 0.000+/-0.000 χ²/NDF: 63.3/45




Right In: 0.010+/-0.000 $\chi^2$/NDF: 926018.8/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:3257231.3/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8122378.4/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:3141111.8/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 6405672.6/11

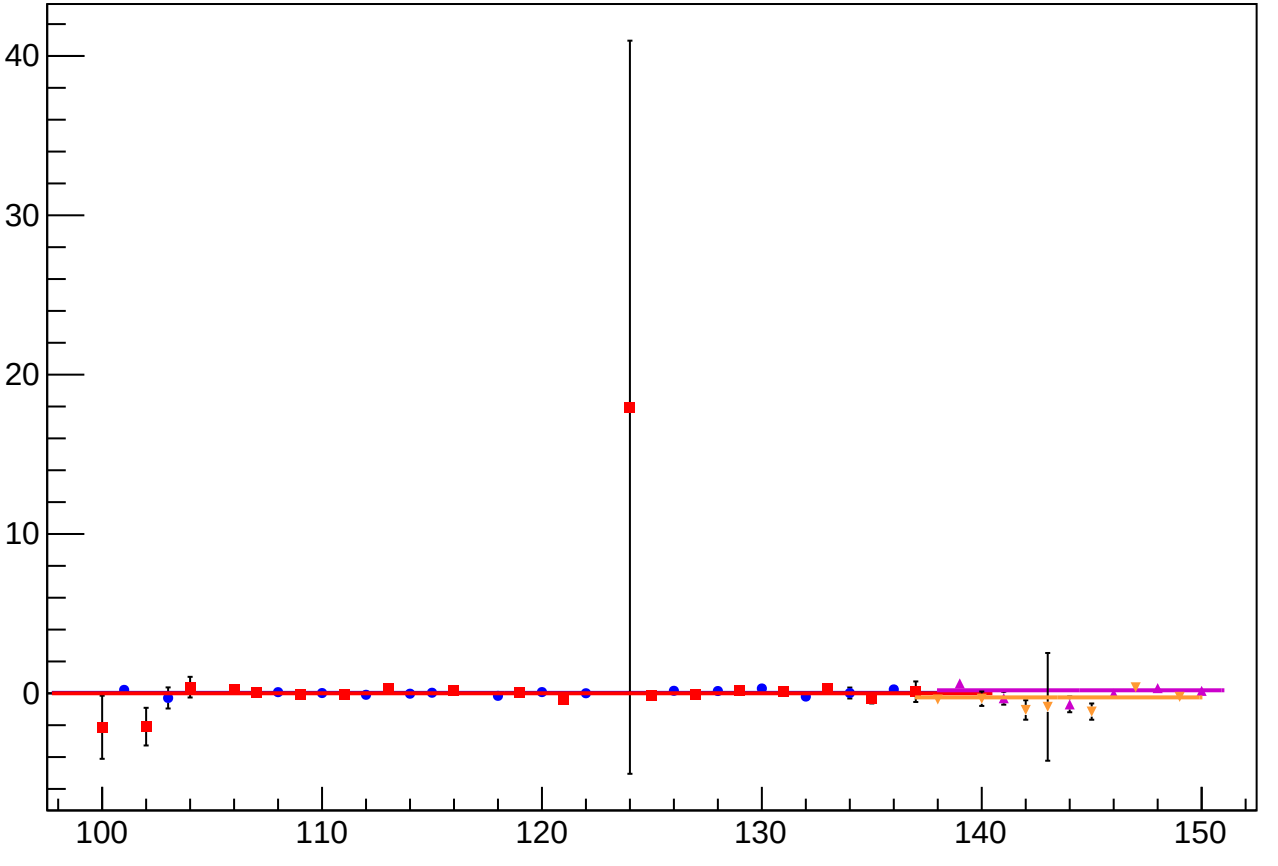
Right: 0.004+/-0.000 $\chi^2$/NDF: 13944710.4/33

In: 0.005+/-0.000 $\chi^2$/NDF:8465117.1/21

Out: 0.003+/-0.000 $\chi^2$/NDF:11442039.8/23

All: 0.004+/-0.000 $\chi^2$/NDF: 20670723.8/45

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.255+/-0.148 $\chi^2$/NDF:9.6/6

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.191+/-0.128 $\chi^2$/NDF:8.9/5

Left: 0.000+/-0.097 $\chi^2$/NDF: 23.6/12

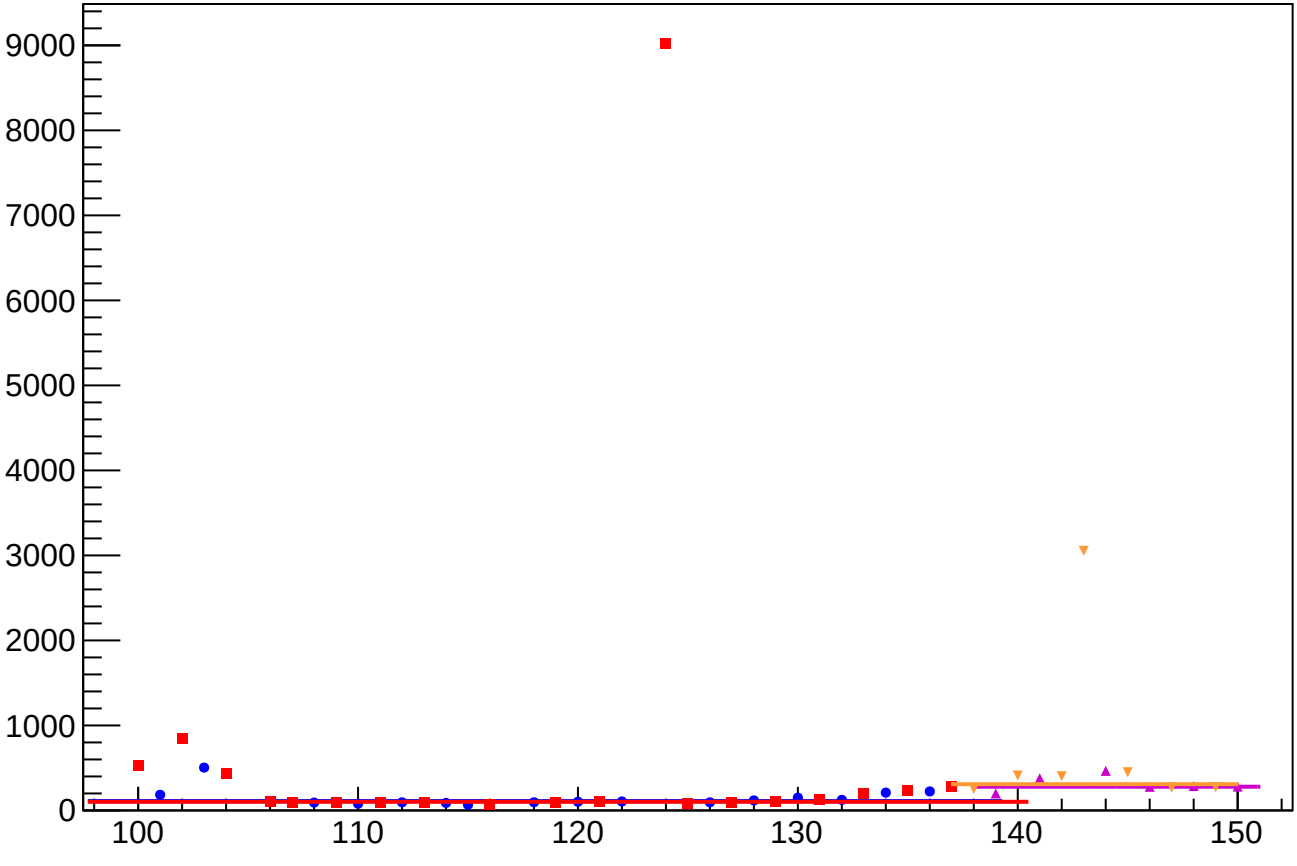
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.046+/-0.043 $\chi^2$/NDF:19.2/21

Out: -0.017+/-0.042 $\chi^2$/NDF:34.7/25

All: 0.014+/-0.030 $\chi^2$/NDF: 55.1/47

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.989+/-0.032 $\chi^2$/NDF: 1930489.2/15

Left Out: 309.303+/-0.105 $\chi^2$/NDF:1759151.1/6

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 279.366+/-0.090 $\chi^2$/NDF:640958.4/5

Left: 292.175+/-0.068 $\chi^2$/NDF: 2447050.6/12

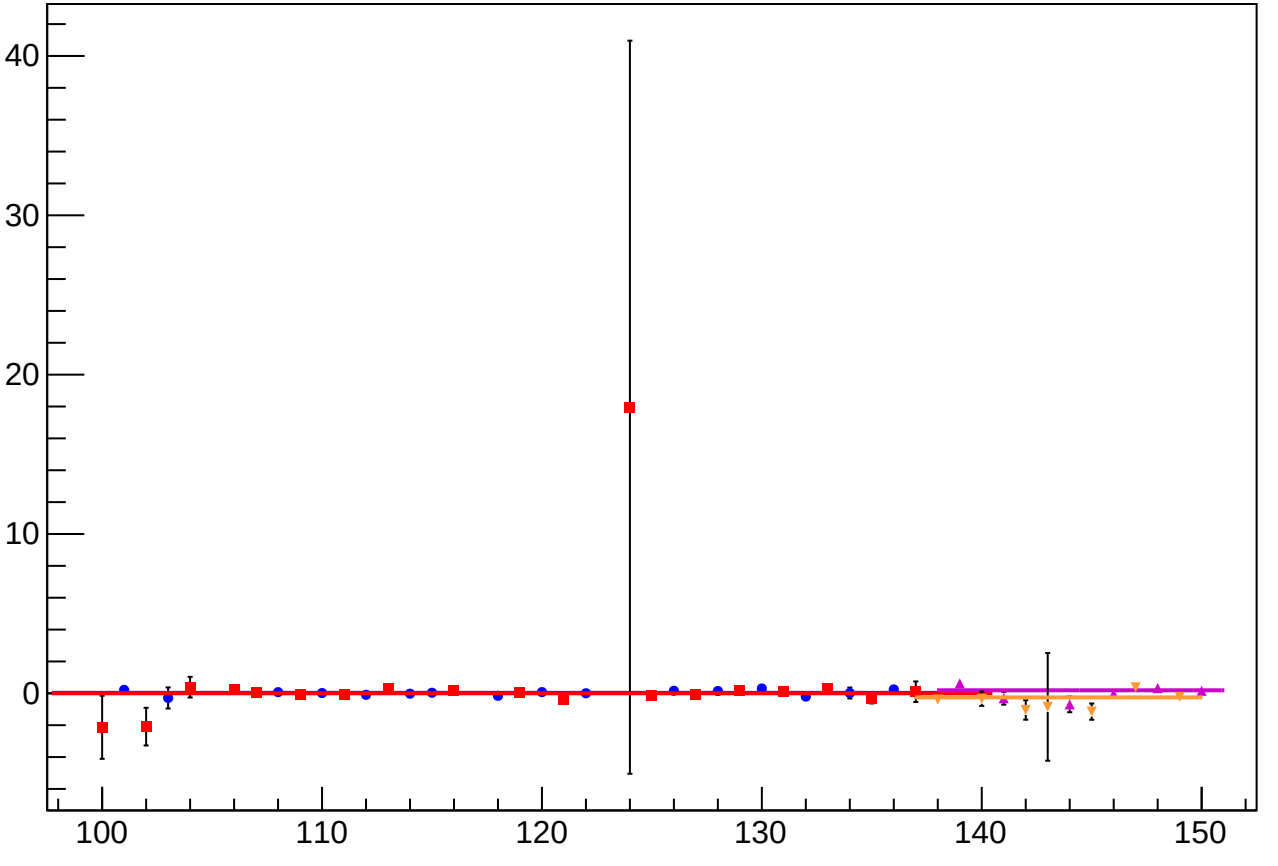
Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 128.890+/-0.030 $\chi^2$/NDF:5691535.5/21

Out: 118.299+/-0.029 $\chi^2$/NDF:7976210.3/25

All: 123.459+/-0.021 $\chi^2$/NDF: 13730852.1/47

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.255+/-0.148 $\chi^2$/NDF:9.6/6

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.191+/-0.128 $\chi^2$/NDF:8.9/5

Left: 0.000+/-0.097 $\chi^2$/NDF: 23.6/12

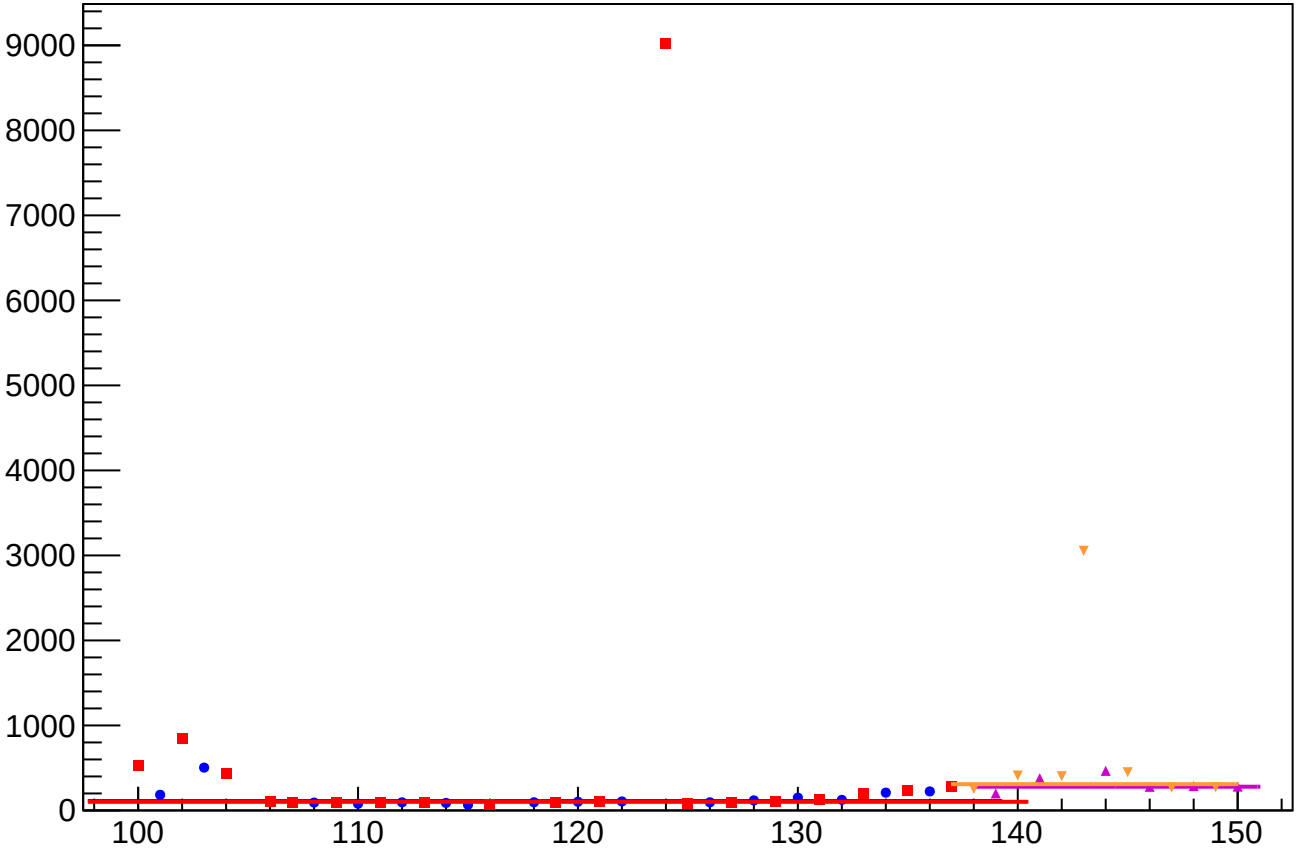
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.046+/-0.043 $\chi^2$/NDF:19.2/21

Out: -0.017+/-0.042 $\chi^2$/NDF:34.7/25

All: 0.014+/-0.030 $\chi^2$/NDF: 55.1/47

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.989+/-0.032 $\chi^2$/NDF: 1930489.2/15

Left Out: 309.303+/-0.105 $\chi^2$/NDF:1759151.1/6

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 279.366+/-0.090 $\chi^2$/NDF:640958.4/5

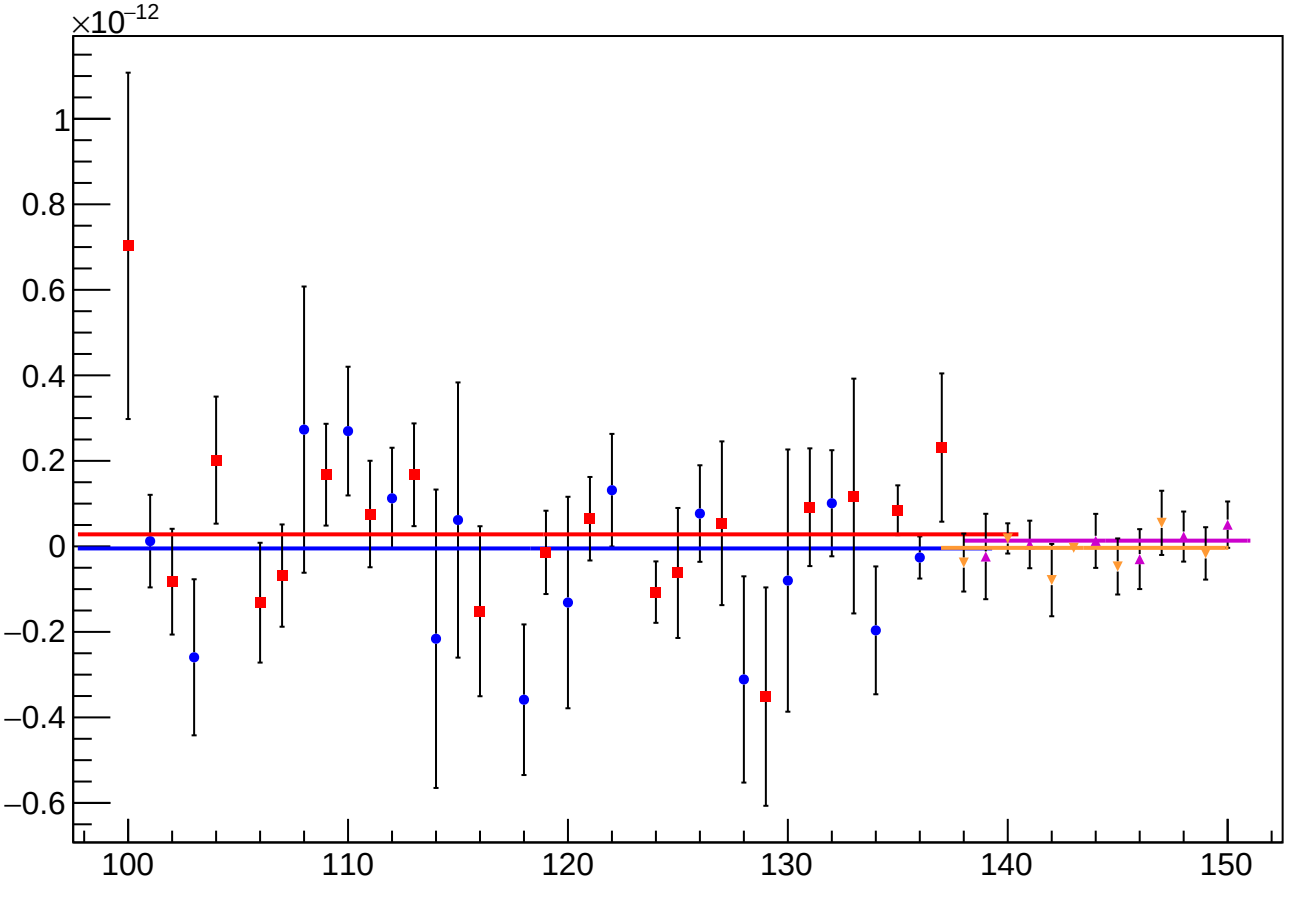
Left: 292.175+/-0.068 $\chi^2$/NDF: 2447050.6/12

Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 128.890+/-0.030 $\chi^2$/NDF:5691535.5/21

Out: 118.299+/-0.029 $\chi^2$/NDF:7976210.3/25

All: 123.459+/-0.021 $\chi^2$/NDF: 13730852.1/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/5

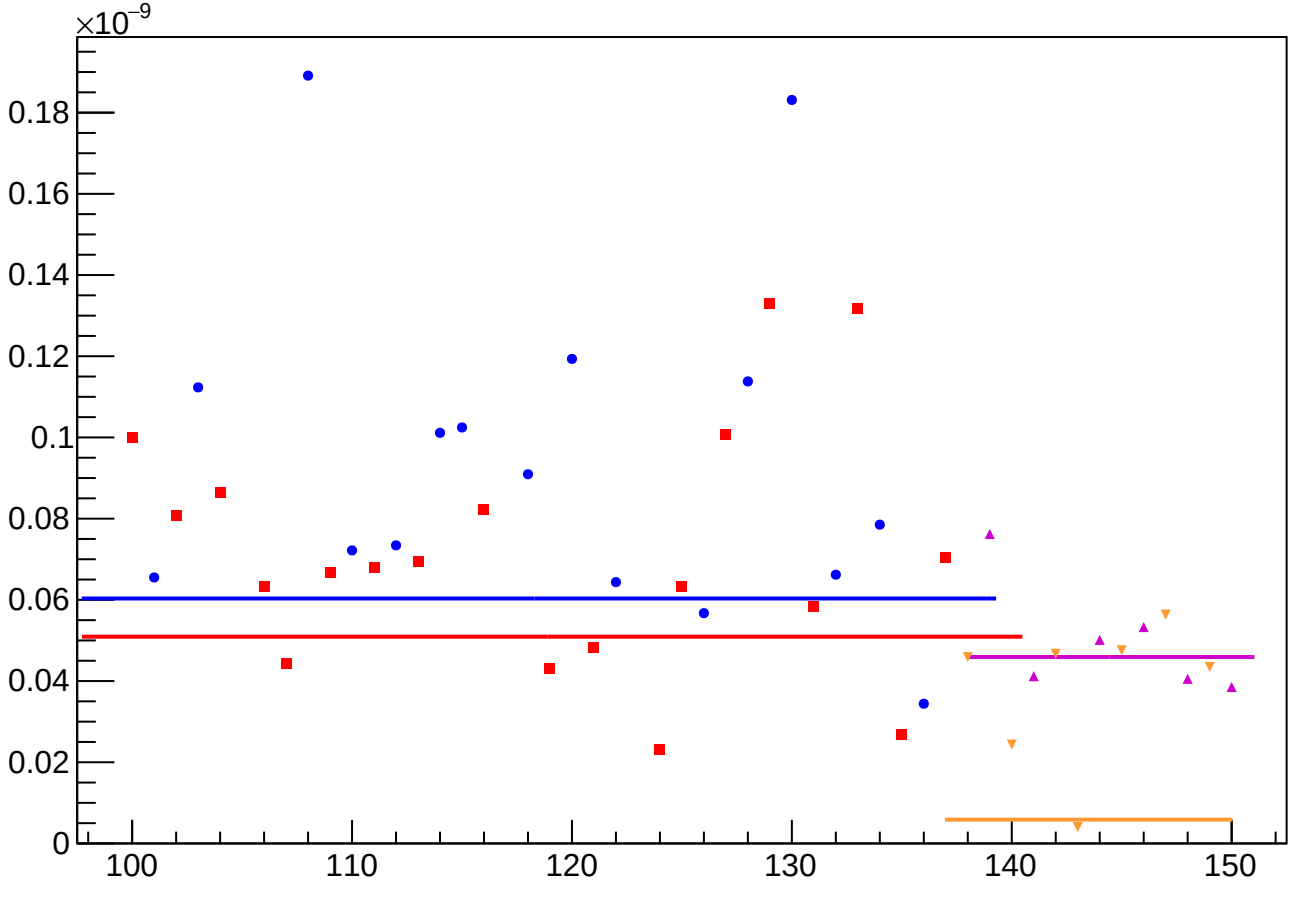
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 42.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1746170.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4391397.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1667004.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:283583.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 9311063.6/12

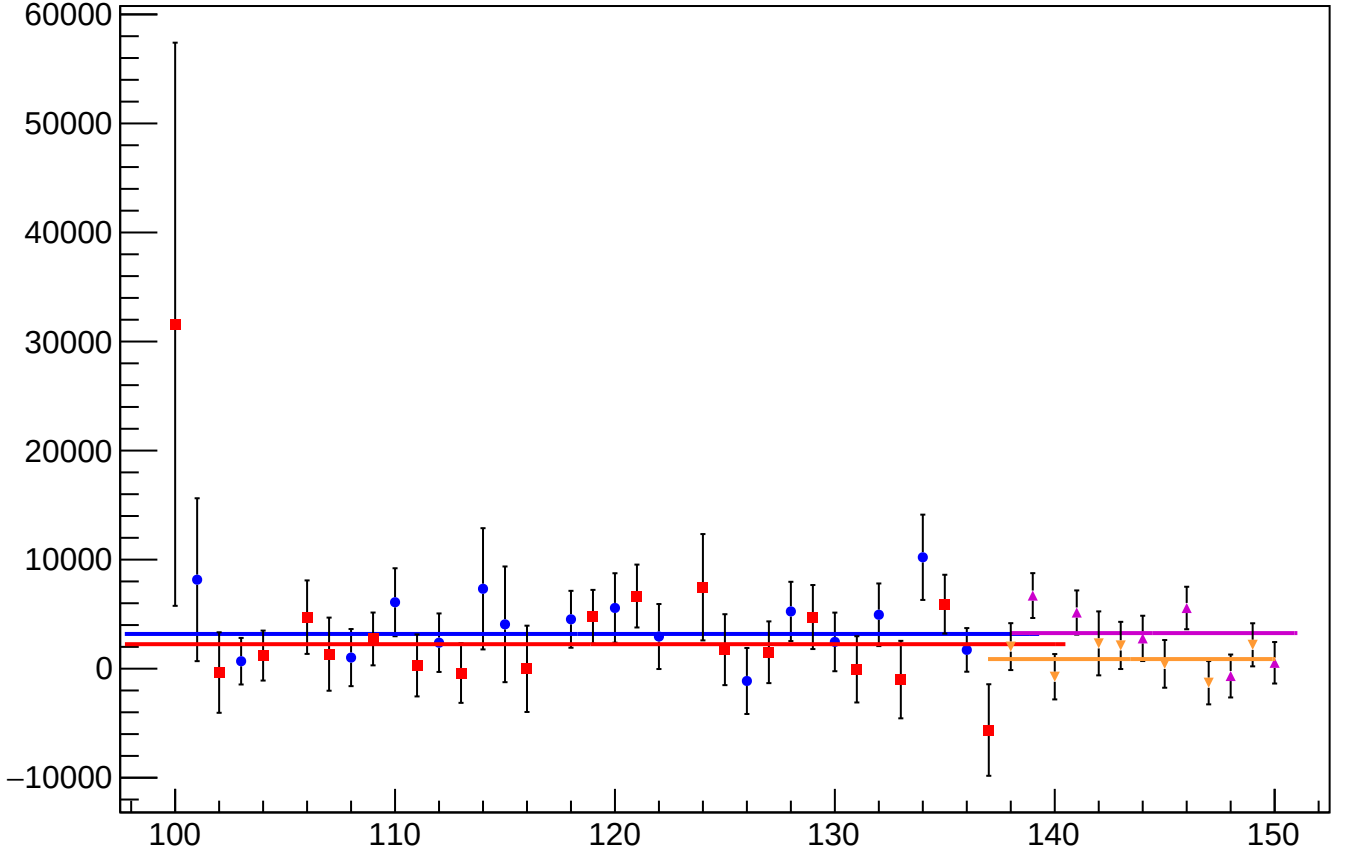
Right: 0.000+/-0.000 $\chi^2$/NDF: 3514375.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2278497.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:11334770.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 22661073.0/47

# reg_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3183.705+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 880.680+/-817.542 $\chi^2$/NDF:3.1/6

Right Out: 2246.057+/-710.912 $\chi^2$/NDF: 16.5/18

Left In: 3262.274+/-813.845 $\chi^2$/NDF:11.2/5

Left: 2076.873+/-576.778 $\chi^2$/NDF: 18.6/12

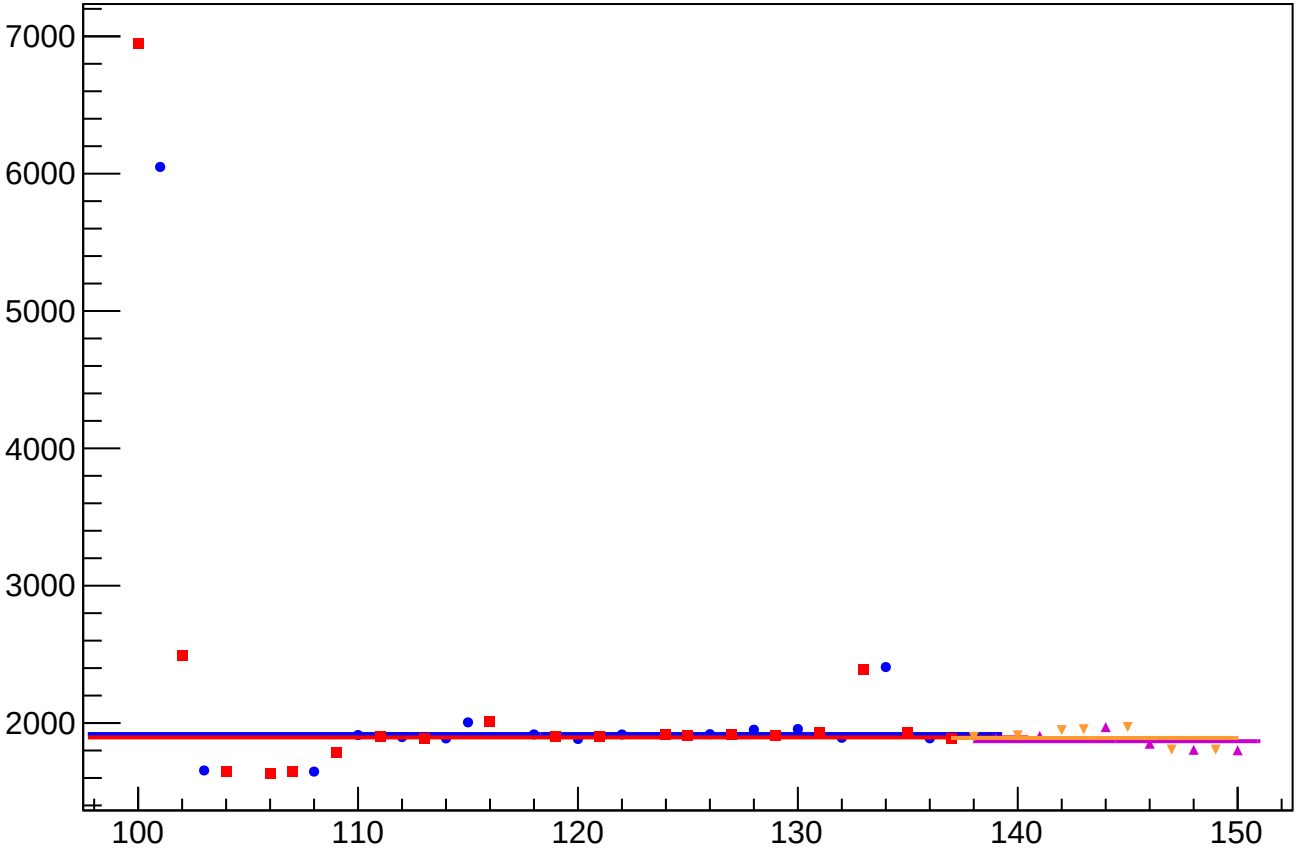
Right: 2701.735+/-509.689 $\chi^2$/NDF: 29.1/34

In: 3218.795+/-543.888 $\chi^2$/NDF:22.9/21

Out: 1658.160+/-536.456 $\chi^2$/NDF:21.2/25

All: 2427.742+/-381.932 $\chi^2$/NDF: 48.3/47

# reg_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697331.5/15

Left Out: 1890.994+/-0.578 $\chi^2$/NDF:12688.8/6

Right Out: 1895.361+/-0.501 $\chi^2$/NDF: 222273.9/18

Left In: 1867.815+/-0.575 $\chi^2$/NDF:10492.9/5

Left: 1879.352+/-0.408 $\chi^2$/NDF: 23989.2/12

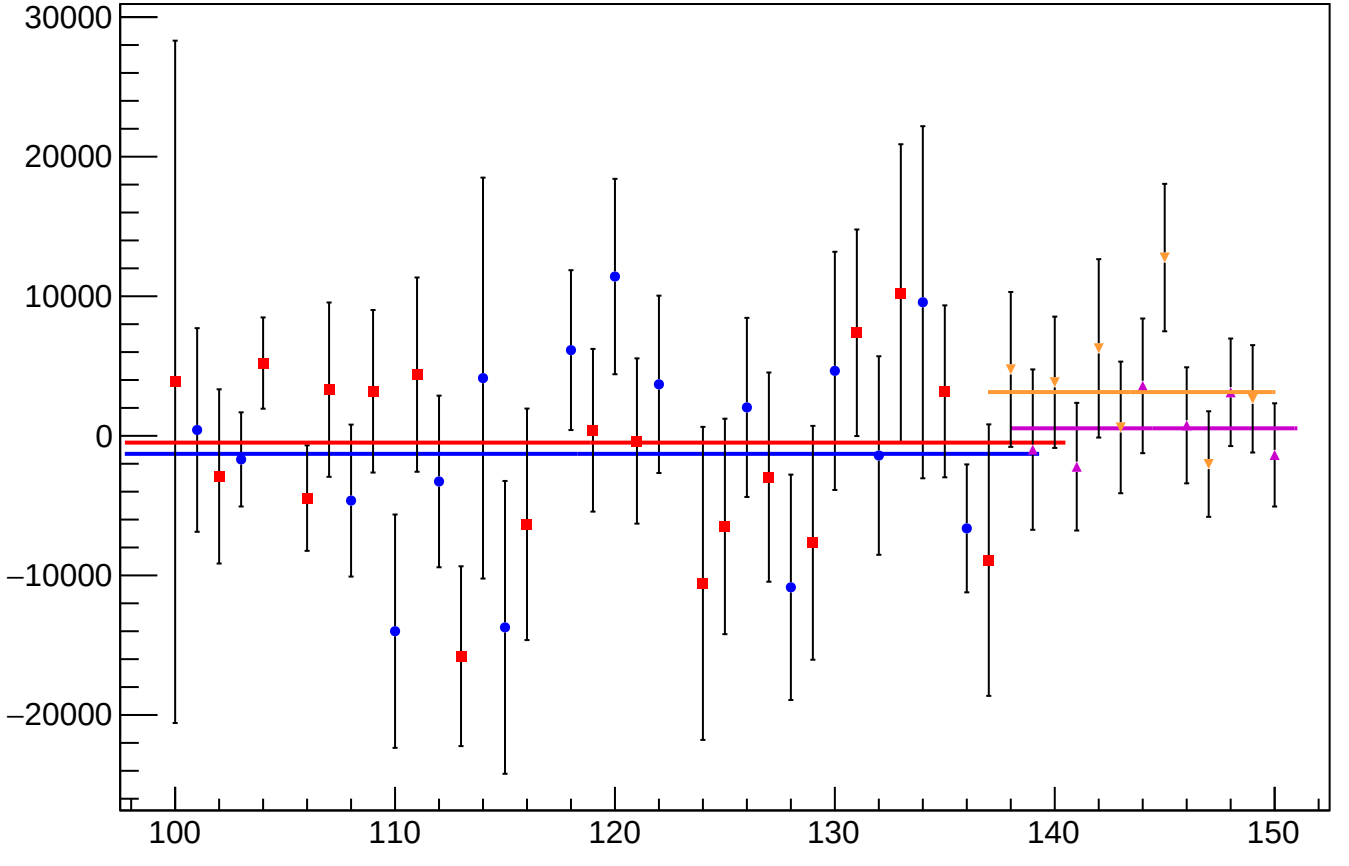
Right: 1907.209+/-0.360 $\chi^2$/NDF: 920760.5/34

In: 1896.597+/-0.385 $\chi^2$/NDF:712344.9/21

Out: 1893.488+/-0.379 $\chi^2$/NDF:234995.3/25

All: 1895.018+/-0.270 $\chi^2$/NDF: 947373.4/47

asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1290.495+/-1585.432 $\chi^2$/NDF: 14.3/15

Left Out: 3133.737+/-1766.659 $\chi^2$/NDF:5.8/6

Right Out: -485.214+/-1437.465 $\chi^2$/NDF: 17.2/18

Left In: 538.214+/-1769.363 $\chi^2$/NDF:1.5/5

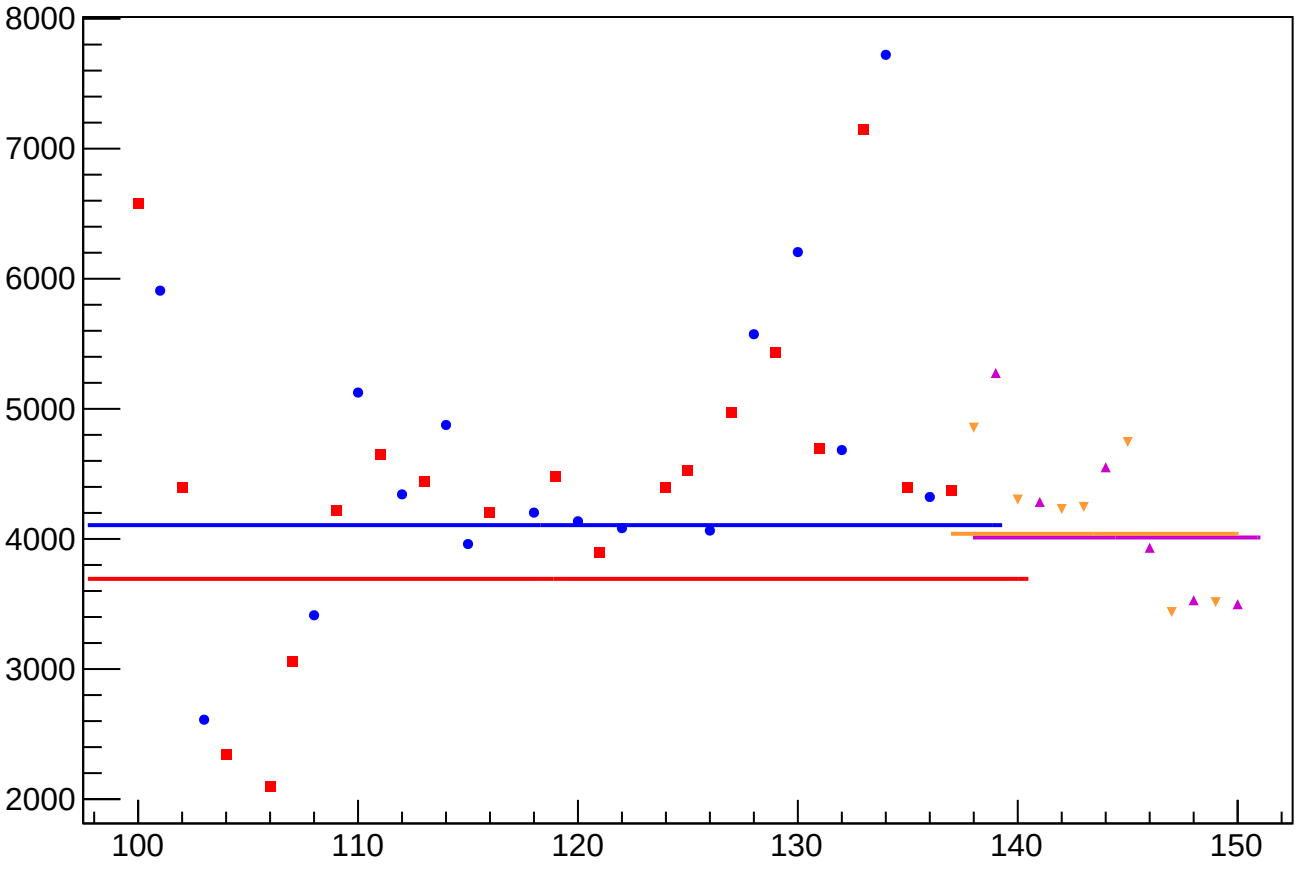
Left: 1837.960+/-1250.172 $\chi^2$/NDF: 8.5/12

Right: -848.531+/-1064.920 $\chi^2$/NDF: 31.6/34

In: -476.101+/-1180.761 $\chi^2$/NDF:16.4/21

Out: 956.331+/-1115.002 $\chi^2$/NDF:25.6/25

All: 281.111+/-810.676 $\chi^2$/NDF: 42.8/47




Right In: 4106.141+/-1.121 $\chi^2$/NDF: 956130.4/15

Left Out: 4039.704+/-1.249 $\chi^2$/NDF:178603.5/6

Right Out: 3693.266+/-1.016 $\chi^2$/NDF: 1356643.3/18

Left In: 4011.178+/-1.251 $\chi^2$/NDF:199534.5/5

Left: 4025.463+/-0.884 $\chi^2$/NDF: 378398.3/12

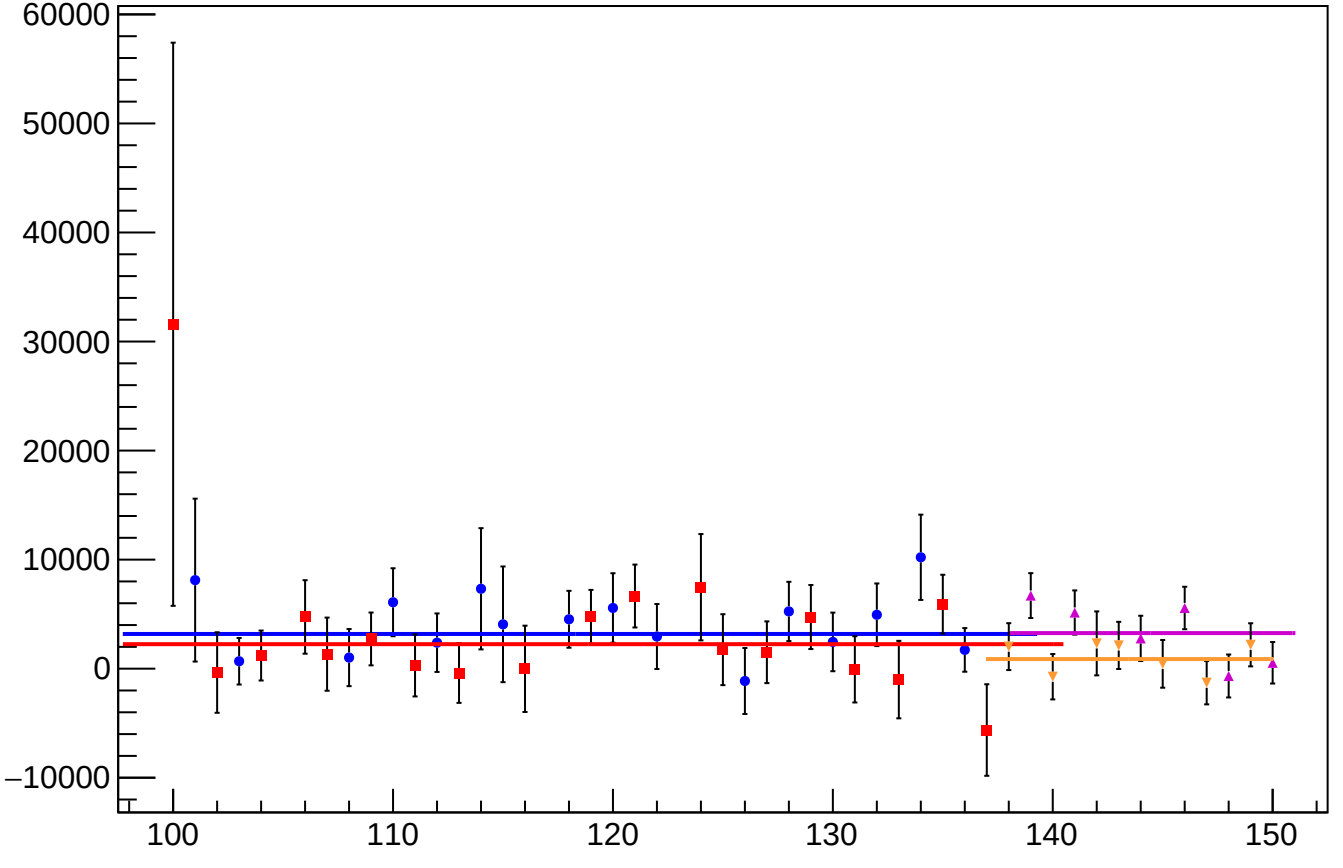
Right: 3879.542+/-0.753 $\chi^2$/NDF: 2387214.5/34

In: 4063.851+/-0.835 $\chi^2$/NDF:1158860.4/21

Out: 3831.264+/-0.788 $\chi^2$/NDF:1581520.1/25

All: 3940.901+/-0.573 $\chi^2$/NDF: 2781402.9/47

# cor_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 880.622+/-817.542 $\chi^2$/NDF:3.1/6

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 3262.524+/-813.845 $\chi^2$/NDF:11.2/5

Left: 2076.970+/-576.778 $\chi^2$/NDF: 18.6/12

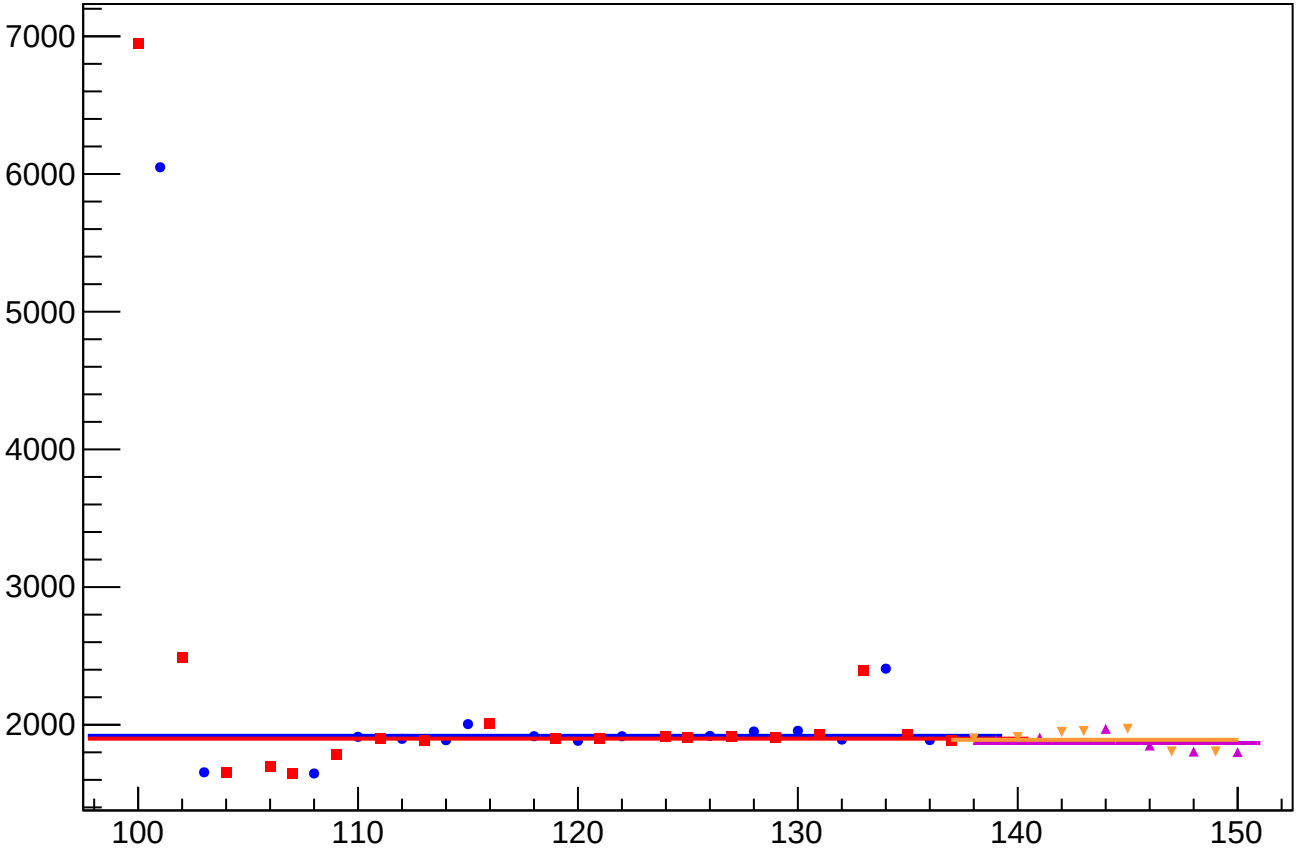
Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 3218.502+/-543.888 $\chi^2$/NDF:22.9/21

Out: 1658.778+/-536.458 $\chi^2$/NDF:21.2/25

All: 2427.913+/-381.933 $\chi^2$/NDF: 48.3/47

# cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1890.994+/-0.578 $\chi^2$/NDF:12688.8/6

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1867.815+/-0.575 $\chi^2$/NDF:10492.9/5

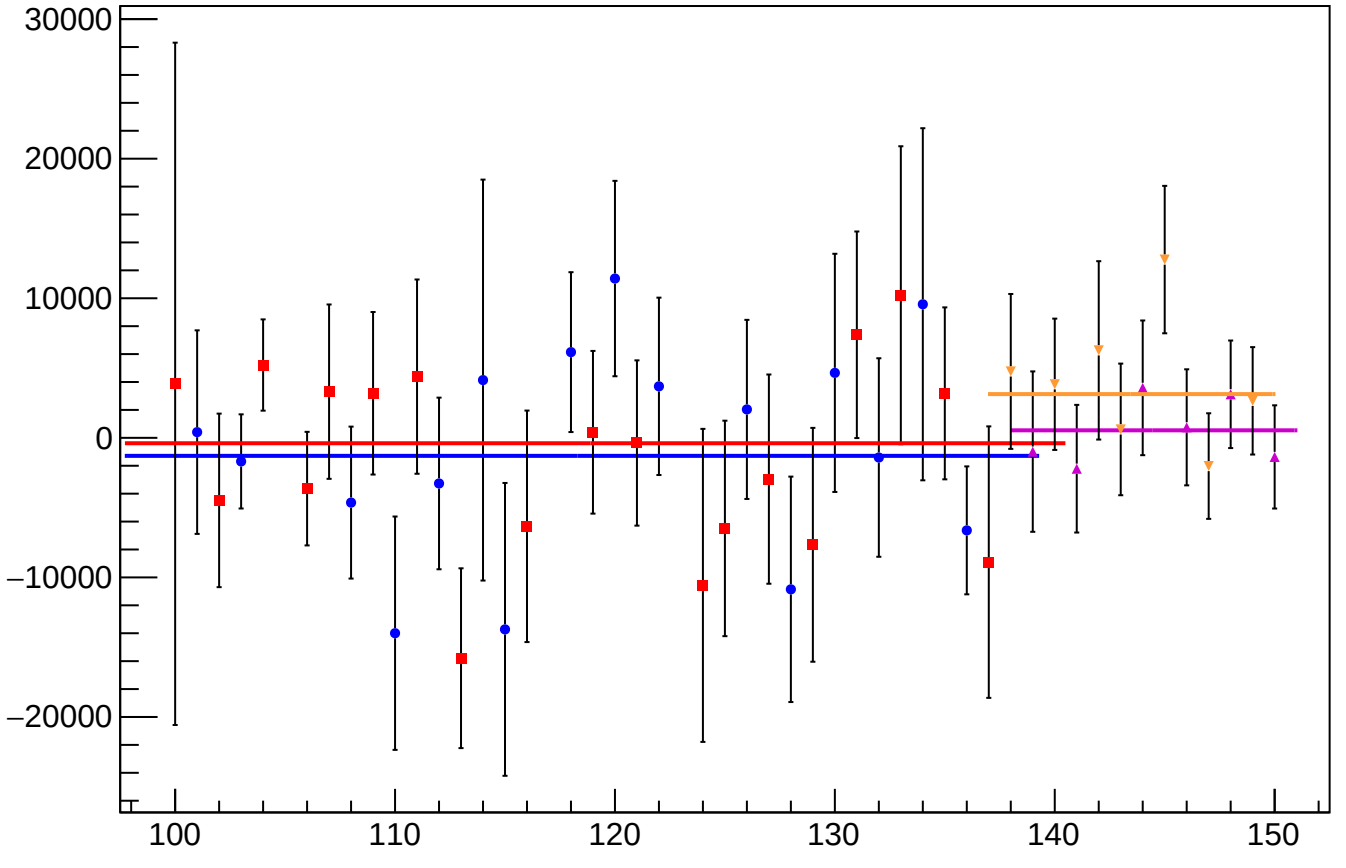
Left: 1879.352+/-0.408 $\chi^2$/NDF: 23989.2/12

Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1896.598+/-0.385 $\chi^2$/NDF:712344.1/21

Out: 1895.767+/-0.379 $\chi^2$/NDF:228462.4/25

All: 1896.176+/-0.270 $\chi^2$/NDF: 940808.9/47




Right In: -1290.862+/-1585.435 $\chi^2$/NDF: 14.3/15

Left Out: 3133.707+/-1766.651 $\chi^2$/NDF:5.8/6

Right Out: -387.626+/-1451.530 $\chi^2$/NDF: 17.0/18

Left In: 538.260+/-1769.366 $\chi^2$/NDF:1.5/5

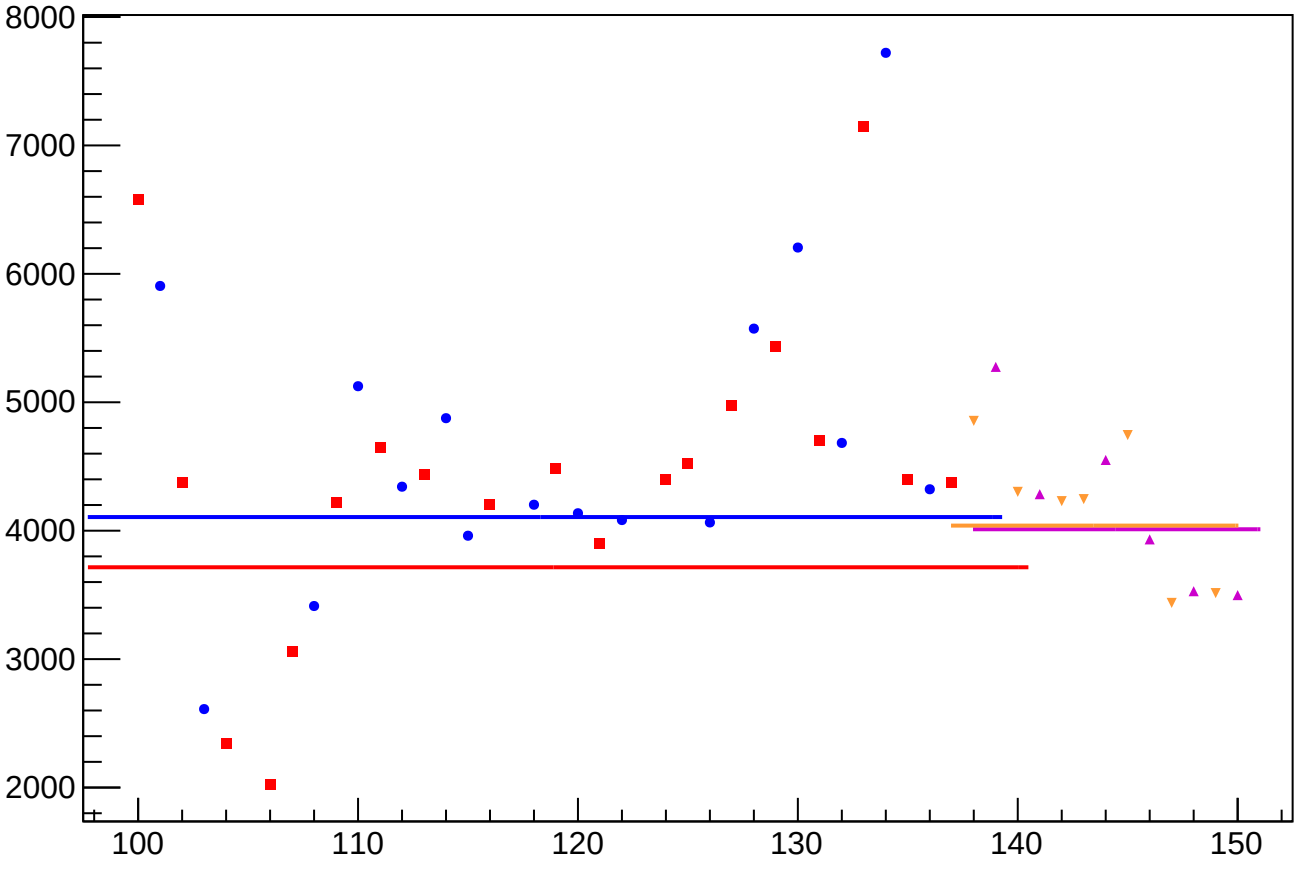
Left: 1837.976+/-1250.170 $\chi^2$/NDF: 8.5/12

Right: -799.497+/-1070.602 $\chi^2$/NDF: 31.4/34

In: -476.285+/-1180.763 $\chi^2$/NDF:16.4/21

Out: 1031.510+/-1121.526 $\chi^2$/NDF:25.2/25

All: 316.382+/-813.174 $\chi^2$/NDF: 42.5/47




Right In: 4106.234+/-1.121 $\chi^2$/NDF: 955631.2/15

Left Out: 4039.684+/-1.249 $\chi^2$/NDF:178604.2/6

Right Out: 3715.202+/-1.026 $\chi^2$/NDF: 1335100.7/18

Left In: 4011.185+/-1.251 $\chi^2$/NDF:199533.8/5

Left: 4025.456+/-0.884 $\chi^2$/NDF: 378397.9/12

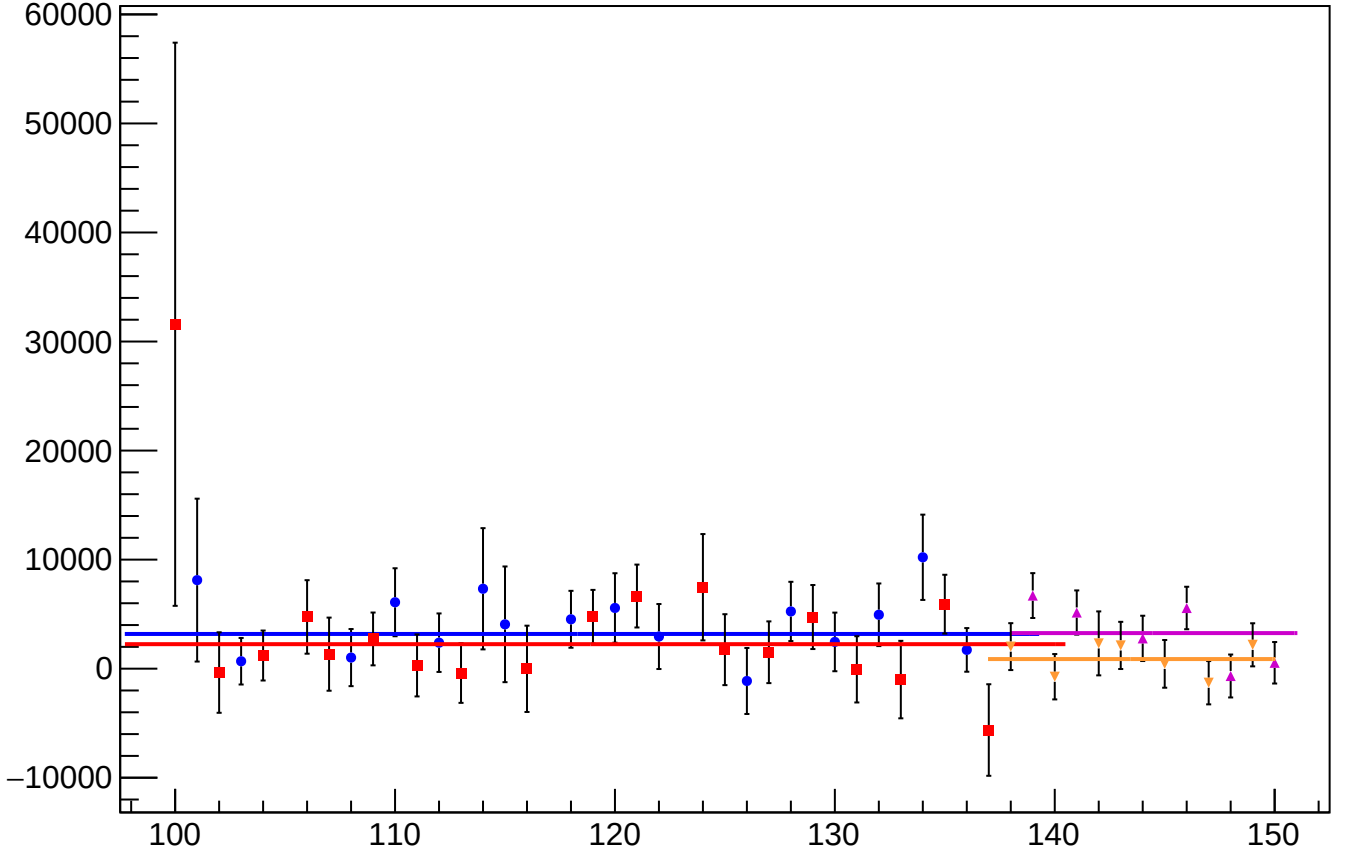
Right: 3893.510+/-0.757 $\chi^2$/NDF: 2356917.1/34

In: 4063.905+/-0.835 $\chi^2$/NDF:1158366.2/21

Out: 3845.972+/-0.793 $\chi^2$/NDF:1553983.5/25

All: 3949.335+/-0.575 $\chi^2$/NDF: 2748167.6/47

# eigen_cor_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 880.622+/-817.542 $\chi^2$/NDF:3.1/6

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 3262.524+/-813.845 $\chi^2$/NDF:11.2/5

Left: 2076.970+/-576.778 $\chi^2$/NDF: 18.6/12

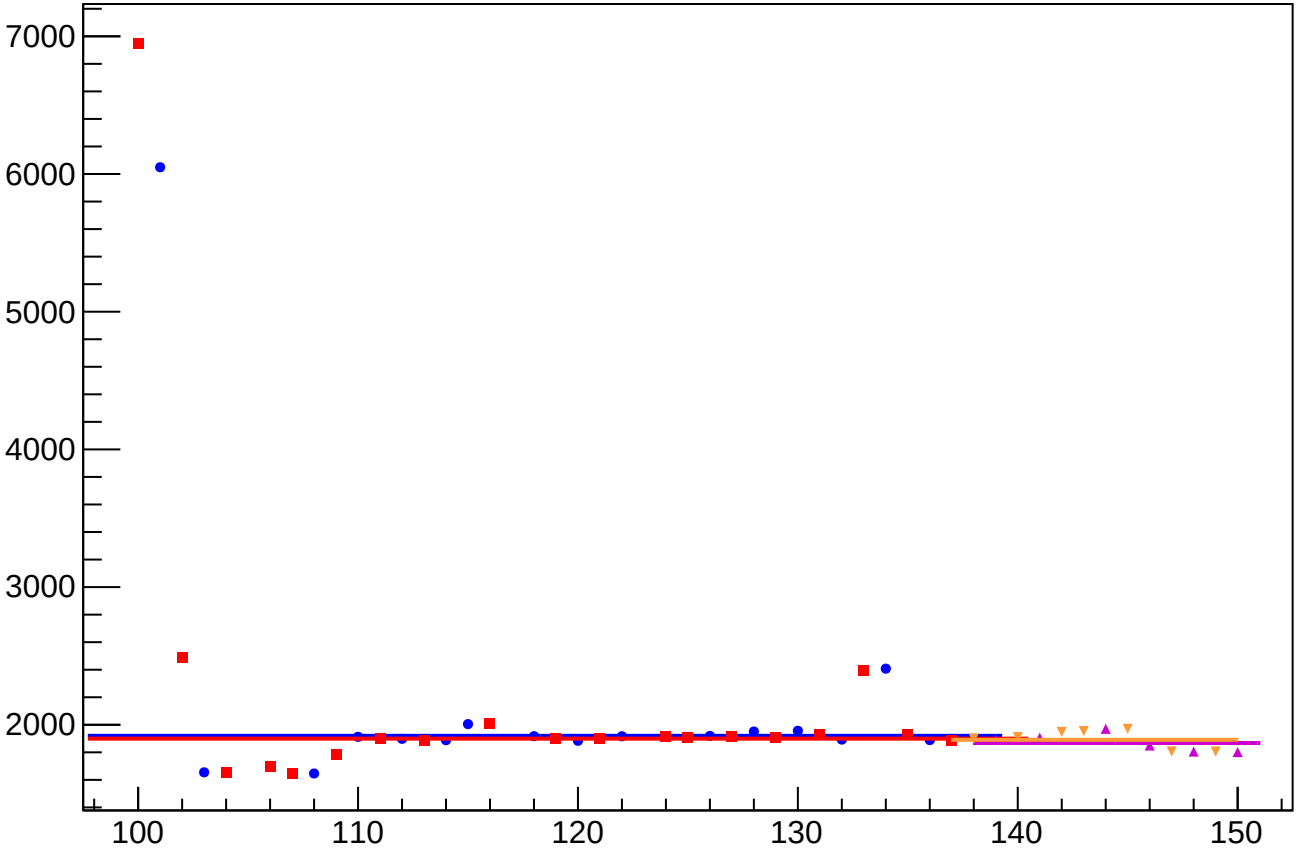
Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 3218.502+/-543.888 $\chi^2$/NDF:22.9/21

Out: 1658.778+/-536.458 $\chi^2$/NDF:21.2/25

All: 2427.913+/-381.933 $\chi^2$/NDF: 48.3/47

# eigen_cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1890.994+/-0.578 $\chi^2$/NDF:12688.8/6

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1867.815+/-0.575 $\chi^2$/NDF:10492.9/5

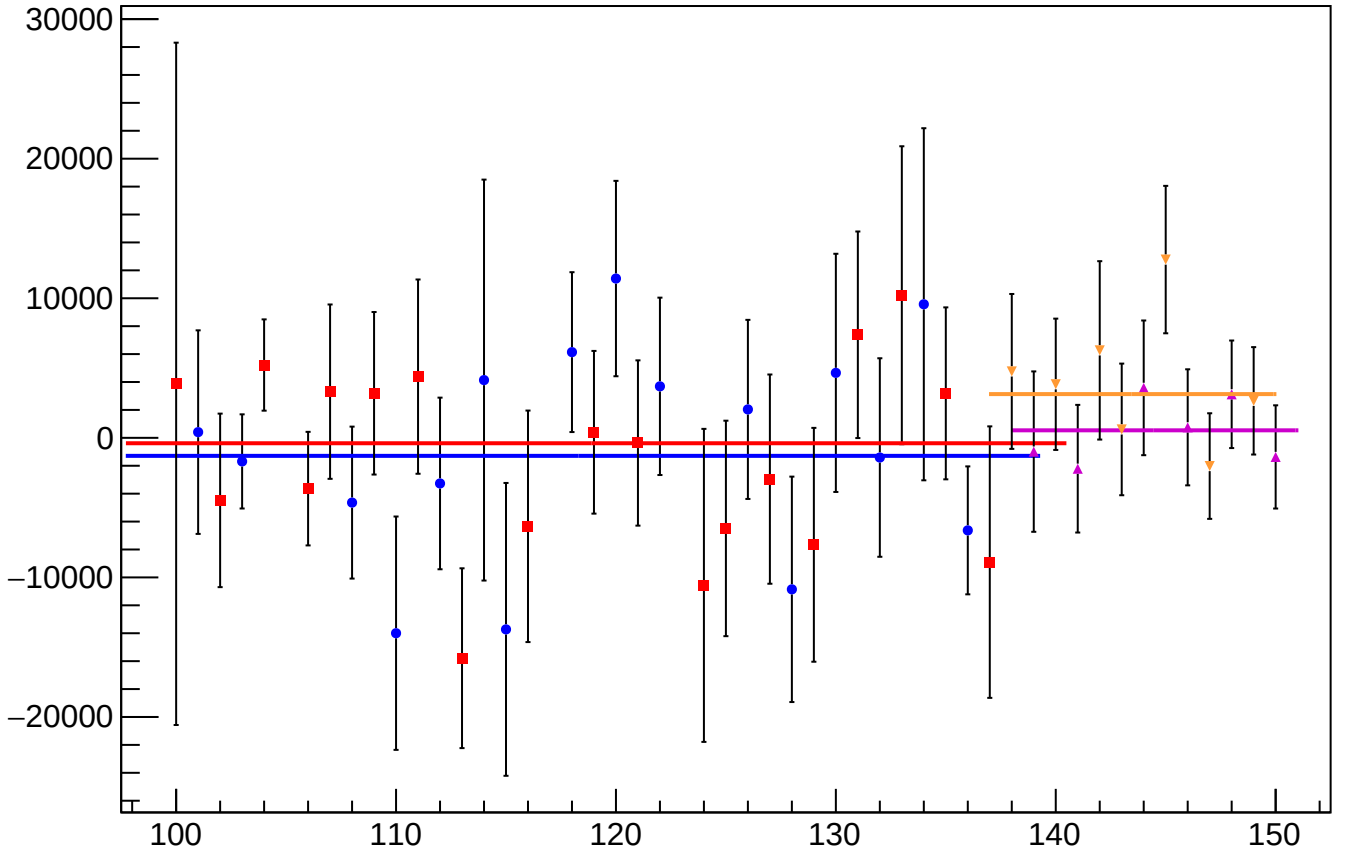
Left: 1879.352+/-0.408 $\chi^2$/NDF: 23989.2/12

Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1896.598+/-0.385 $\chi^2$/NDF:712344.1/21

Out: 1895.767+/-0.379 $\chi^2$/NDF:228462.4/25

All: 1896.176+/-0.270 $\chi^2$/NDF: 940808.9/47




Right In: -1290.862+/-1585.435 $\chi^2$/NDF: 14.3/15

Left Out: 3133.707+/-1766.651 $\chi^2$/NDF:5.8/6

Right Out: -387.626+/-1451.530 $\chi^2$/NDF: 17.0/18

Left In: 538.260+/-1769.366 $\chi^2$/NDF:1.5/5

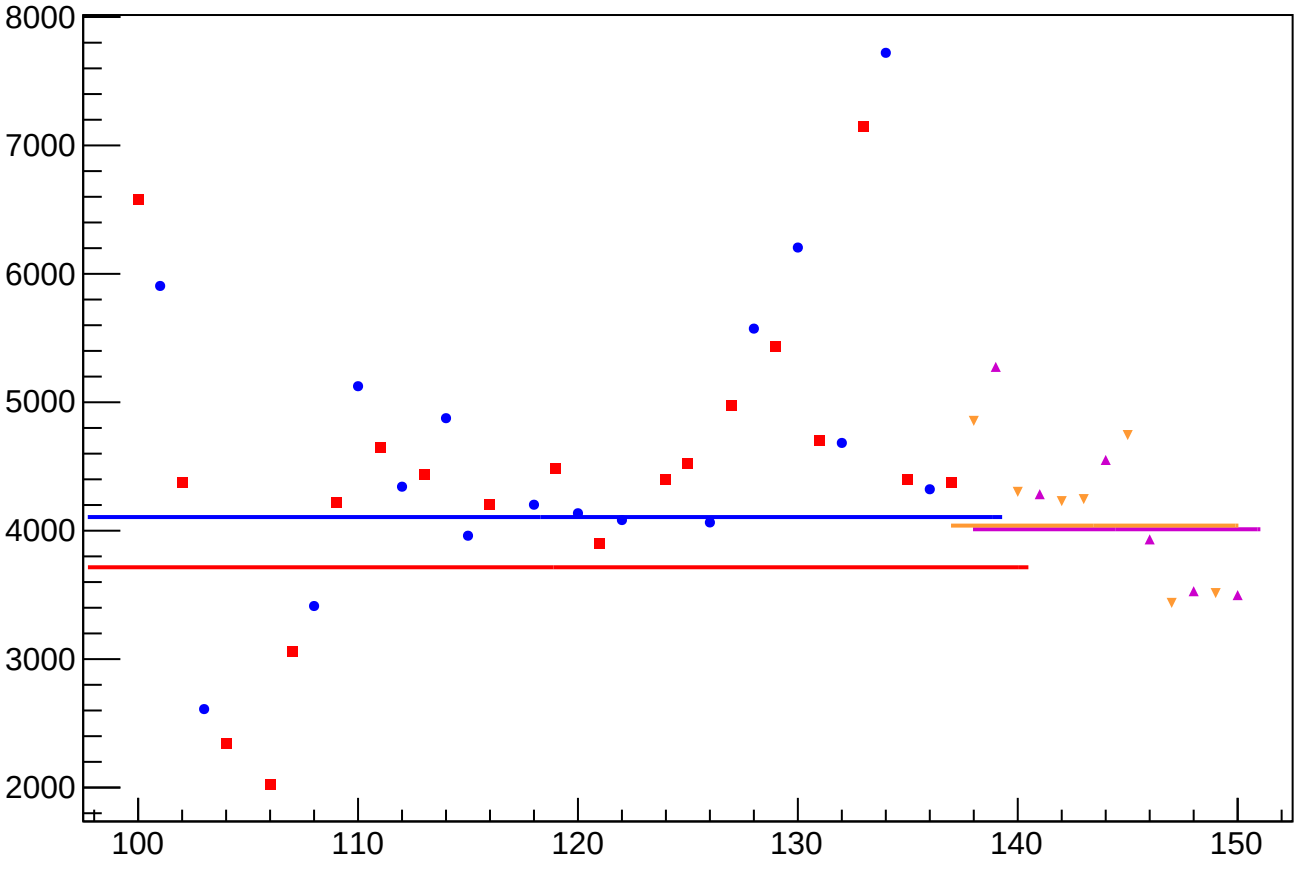
Left: 1837.976+/-1250.170 $\chi^2$/NDF: 8.5/12

Right: -799.497+/-1070.602 $\chi^2$/NDF: 31.4/34

In: -476.285+/-1180.763 $\chi^2$/NDF:16.4/21

Out: 1031.510+/-1121.526 $\chi^2$/NDF:25.2/25

All: 316.382+/-813.174 $\chi^2$/NDF: 42.5/47




Right In: 4106.234+/-1.121 $\chi^2$/NDF: 955631.2/15

Left Out: 4039.684+/-1.249 $\chi^2$/NDF:178604.2/6

Right Out: 3715.202+/-1.026 $\chi^2$/NDF: 1335100.7/18

Left In: 4011.185+/-1.251 $\chi^2$/NDF:199533.8/5

Left: 4025.456+/-0.884 $\chi^2$/NDF: 378397.9/12

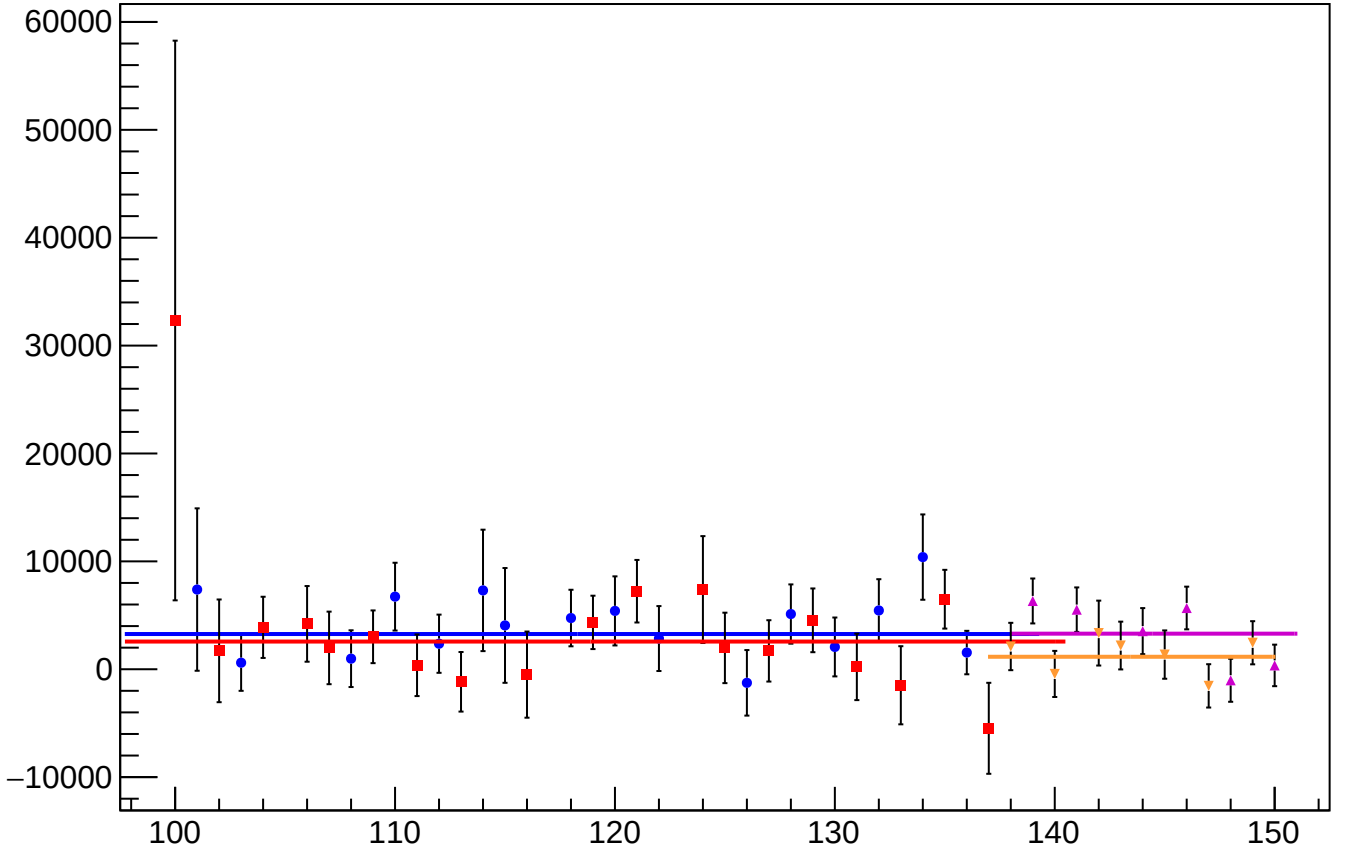
Right: 3893.510+/-0.757 $\chi^2$/NDF: 2356917.1/34

In: 4063.905+/-0.835 $\chi^2$/NDF:1158366.2/21

Out: 3845.972+/-0.793 $\chi^2$/NDF:1553983.5/25

All: 3949.335+/-0.575 $\chi^2$/NDF: 2748167.6/47

# dit_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3264.639+/-750.865 $\chi^2$/NDF: 12.2/15

Left Out: 1156.676+/-833.792 $\chi^2$/NDF:3.7/6

Right Out: 2566.683+/-734.876 $\chi^2$/NDF: 17.0/18

Left In: 3297.854+/-826.884 $\chi^2$/NDF:11.8/5

Left: 2236.172+/-587.123 $\chi^2$/NDF: 18.8/12

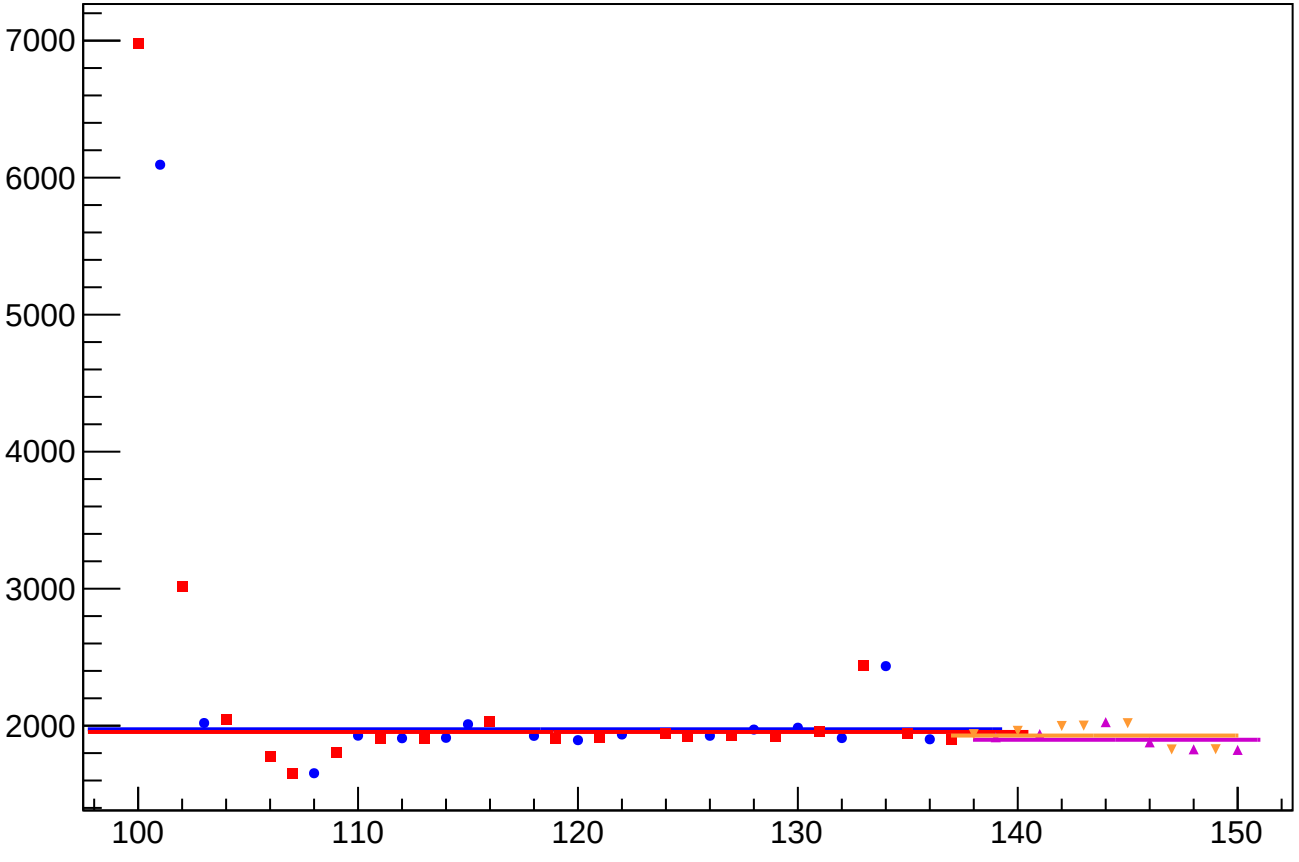
Right: 2908.151+/-525.197 $\chi^2$/NDF: 29.6/34

In: 3279.650+/-555.879 $\chi^2$/NDF:23.9/21

Out: 1950.240+/-551.308 $\chi^2$/NDF:22.4/25

All: 2609.456+/-391.439 $\chi^2$/NDF: 49.2/47

# dit_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1973.748+/-0.531 $\chi^2$/NDF: 665124.2/15

Left Out: 1928.107+/-0.590 $\chi^2$/NDF:17101.9/6

Right Out: 1954.339+/-0.519 $\chi^2$/NDF: 246211.3/18

Left In: 1897.380+/-0.585 $\chi^2$/NDF:13806.4/5

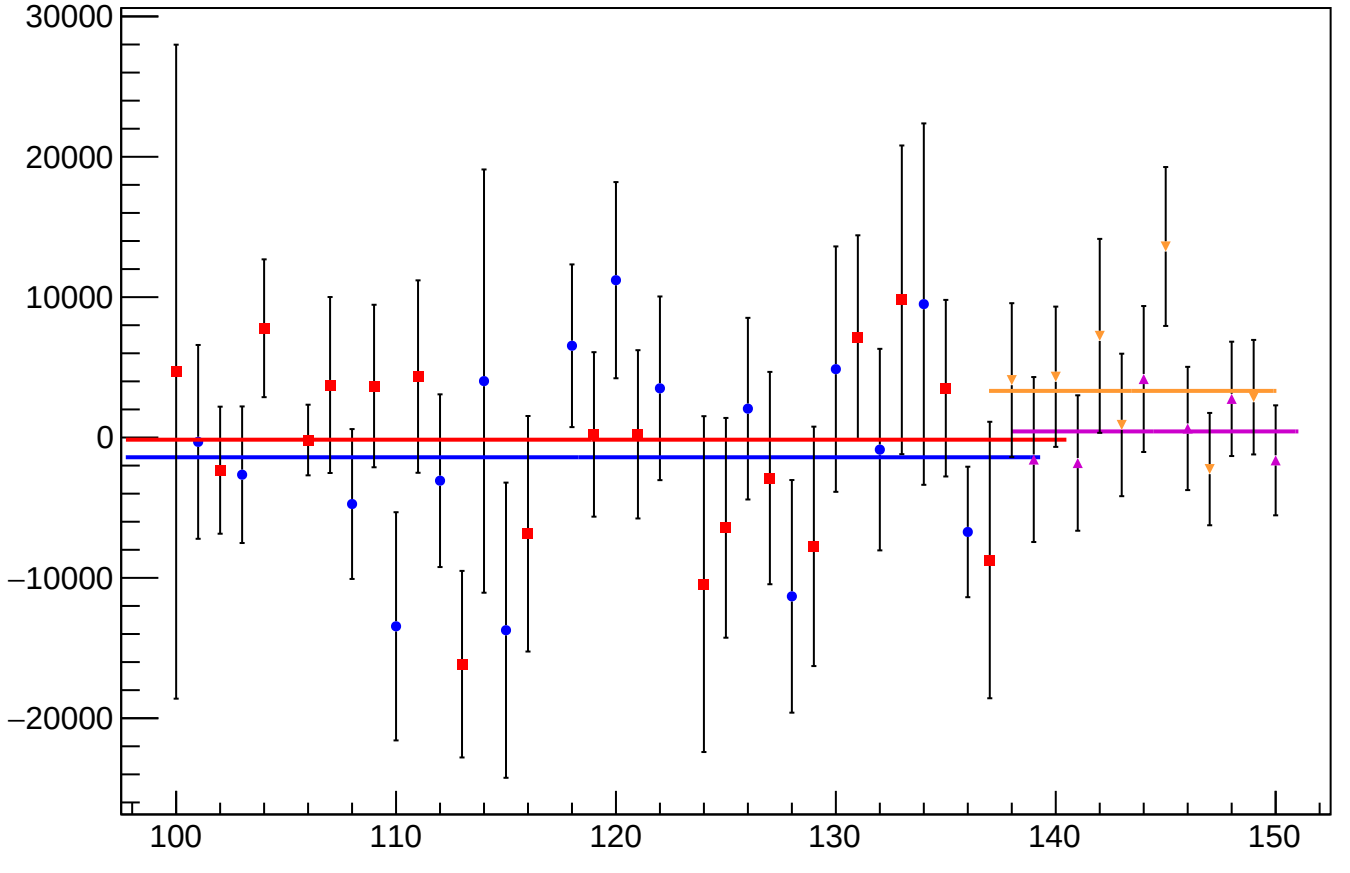
Left: 1912.616+/-0.415 $\chi^2$/NDF: 32277.6/12

Right: 1963.826+/-0.371 $\chi^2$/NDF: 912018.7/34

In: 1939.235+/-0.393 $\chi^2$/NDF:688280.3/21

Out: 1942.882+/-0.390 $\chi^2$/NDF:264428.2/25

All: 1941.074+/-0.277 $\chi^2$/NDF: 952752.0/47




Right In: -1407.382+/-1689.989 $\chi^2$/NDF: 14.2/15

Left Out: 3321.368+/-1867.251 $\chi^2$/NDF:5.9/6

Right Out: -155.271+/-1363.642 $\chi^2$/NDF: 15.8/18

Left In: 433.593+/-1869.297 $\chi^2$/NDF:1.5/5

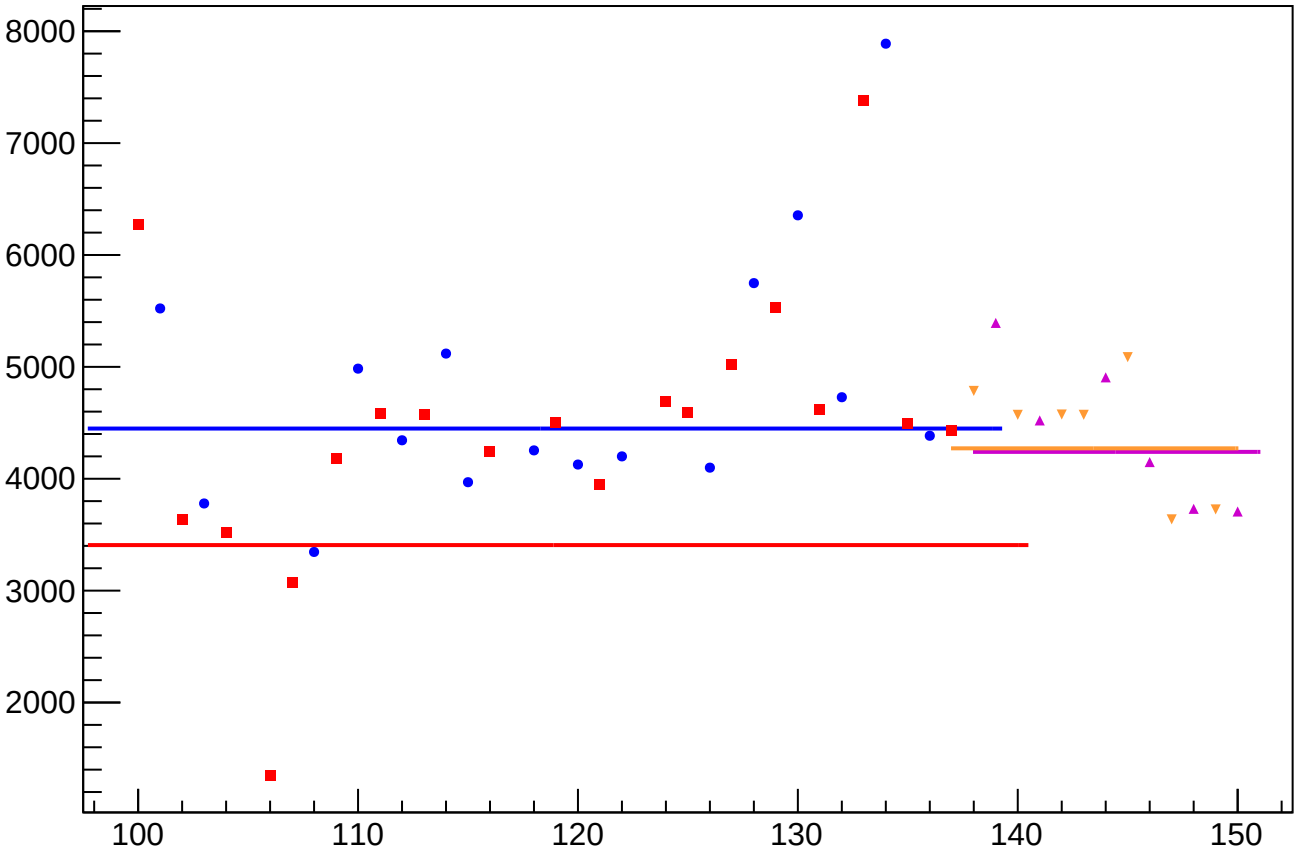
Left: 1879.062+/-1321.068 $\chi^2$/NDF: 8.5/12

Right: -649.023+/-1061.247 $\chi^2$/NDF: 30.4/34

In: -579.403+/-1253.614 $\chi^2$/NDF:16.2/21

Out: 1053.989+/-1101.242 $\chi^2$/NDF:23.9/25

All: 342.542+/-827.351 $\chi^2$/NDF: 41.1/47




Right In: 4448.711+/-1.195 $\chi^2$/NDF: 494613.5/15

Left Out: 4271.881+/-1.320 $\chi^2$/NDF:163107.1/6

Right Out: 3407.128+/-0.964 $\chi^2$/NDF: 2326060.4/18

Left In: 4240.219+/-1.322 $\chi^2$/NDF:185668.2/5

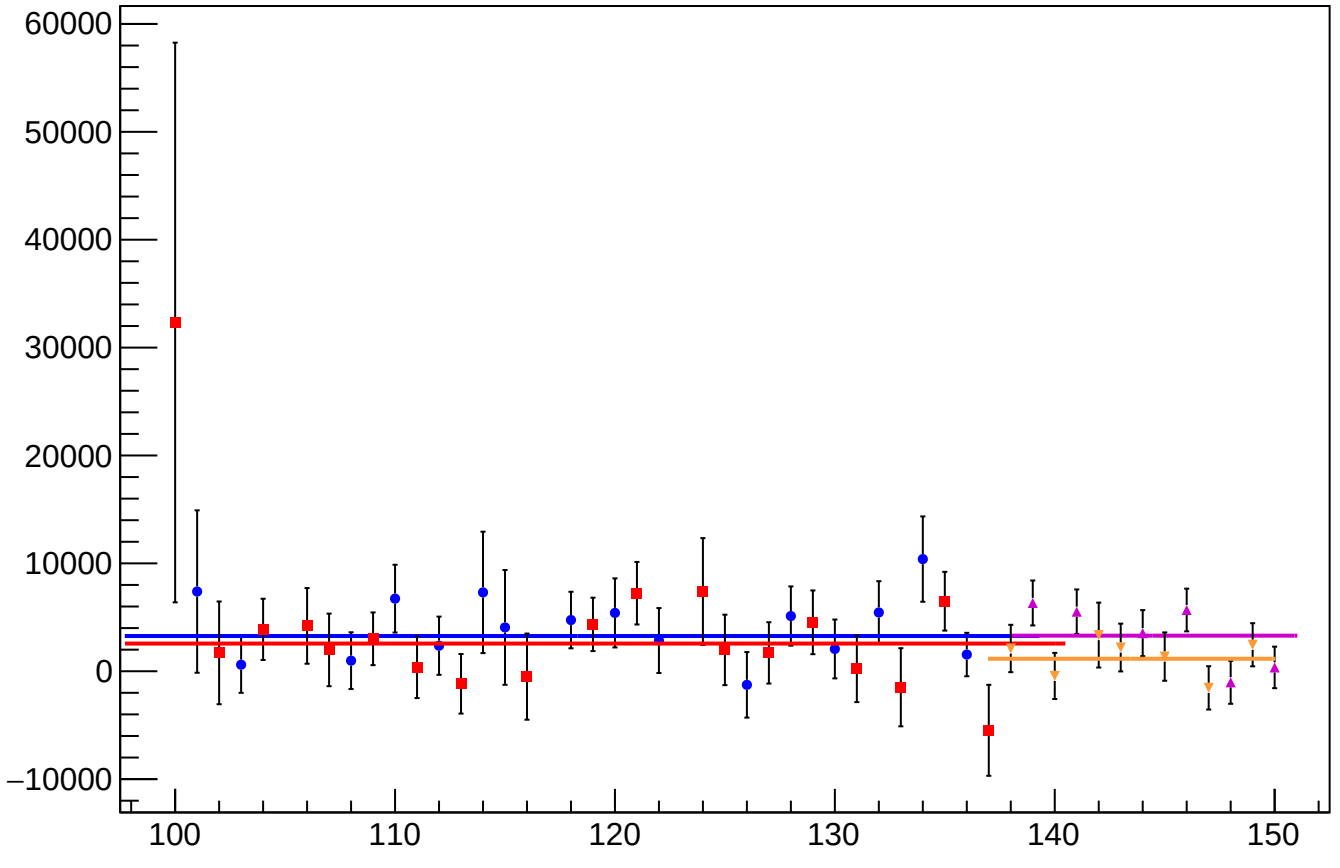
Left: 4256.067+/-0.934 $\chi^2$/NDF: 349062.5/12

Right: 3817.861+/-0.750 $\chi^2$/NDF: 3280806.0/34

In: 4354.942+/-0.886 $\chi^2$/NDF:693971.9/21

Out: 3707.910+/-0.779 $\chi^2$/NDF:2768919.5/25

All: 3989.734+/-0.585 $\chi^2$/NDF: 3763615.4/47




Right In: 3264.644+/-750.865 $\chi^2$/NDF: 12.2/15

Left Out: 1156.679+/-833.793 $\chi^2$/NDF:3.7/6

Right Out: 2566.689+/-734.875 $\chi^2$/NDF: 17.0/18

Left In: 3297.850+/-826.885 $\chi^2$/NDF:11.8/5

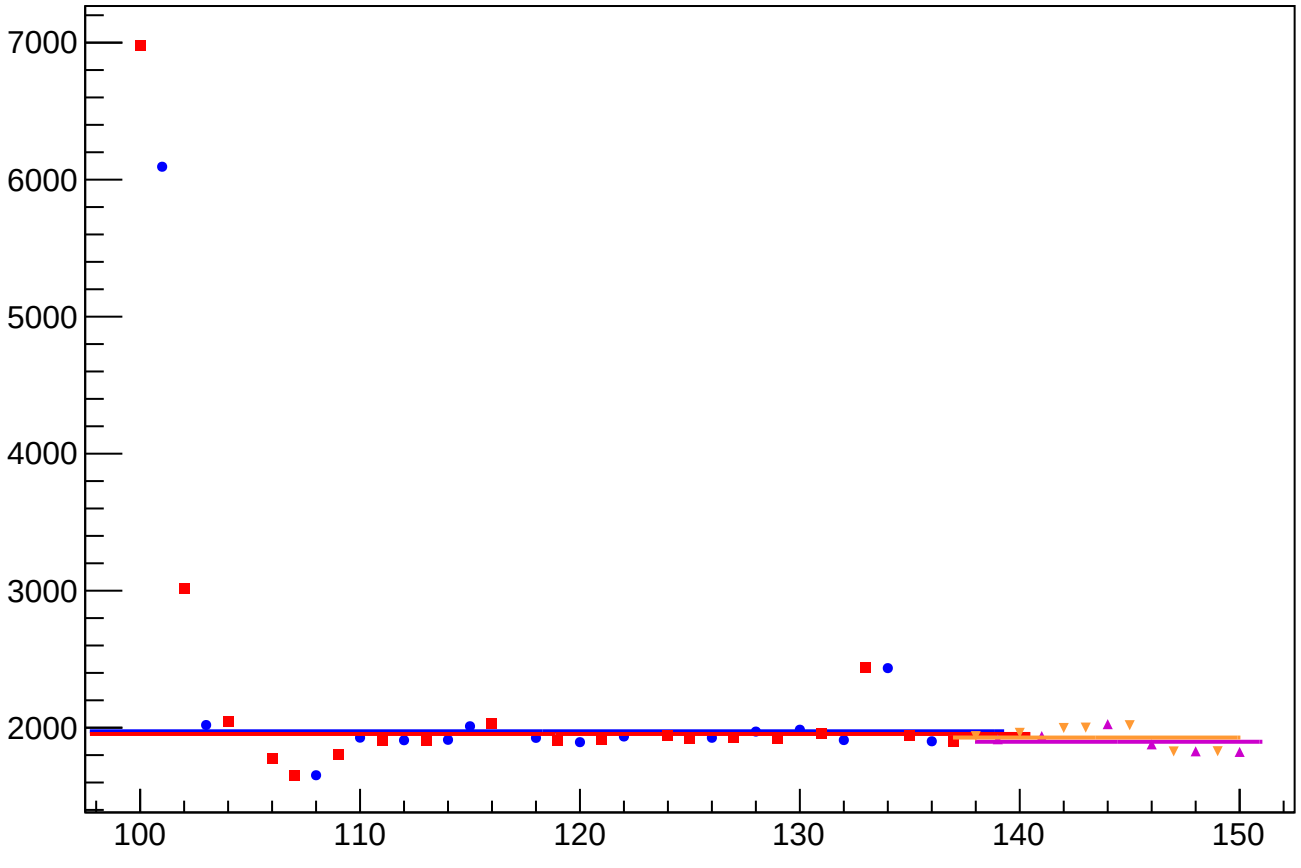
Left: 2236.171+/-587.123 $\chi^2$/NDF: 18.8/12

Right: 2908.156+/-525.197 $\chi^2$/NDF: 29.6/34

In: 3279.651+/-555.879 $\chi^2$/NDF:23.9/21

Out: 1950.245+/-551.308 $\chi^2$/NDF:22.4/25

All: 2609.459+/-391.440 $\chi^2$/NDF: 49.2/47




Right In: 1973.748+/-0.531 $\chi^2$/NDF: 665124.2/15

Left Out: 1928.108+/-0.590 $\chi^2$/NDF:17102.0/6

Right Out: 1954.339+/-0.519 $\chi^2$/NDF: 246210.8/18

Left In: 1897.381+/-0.585 $\chi^2$/NDF:13806.3/5

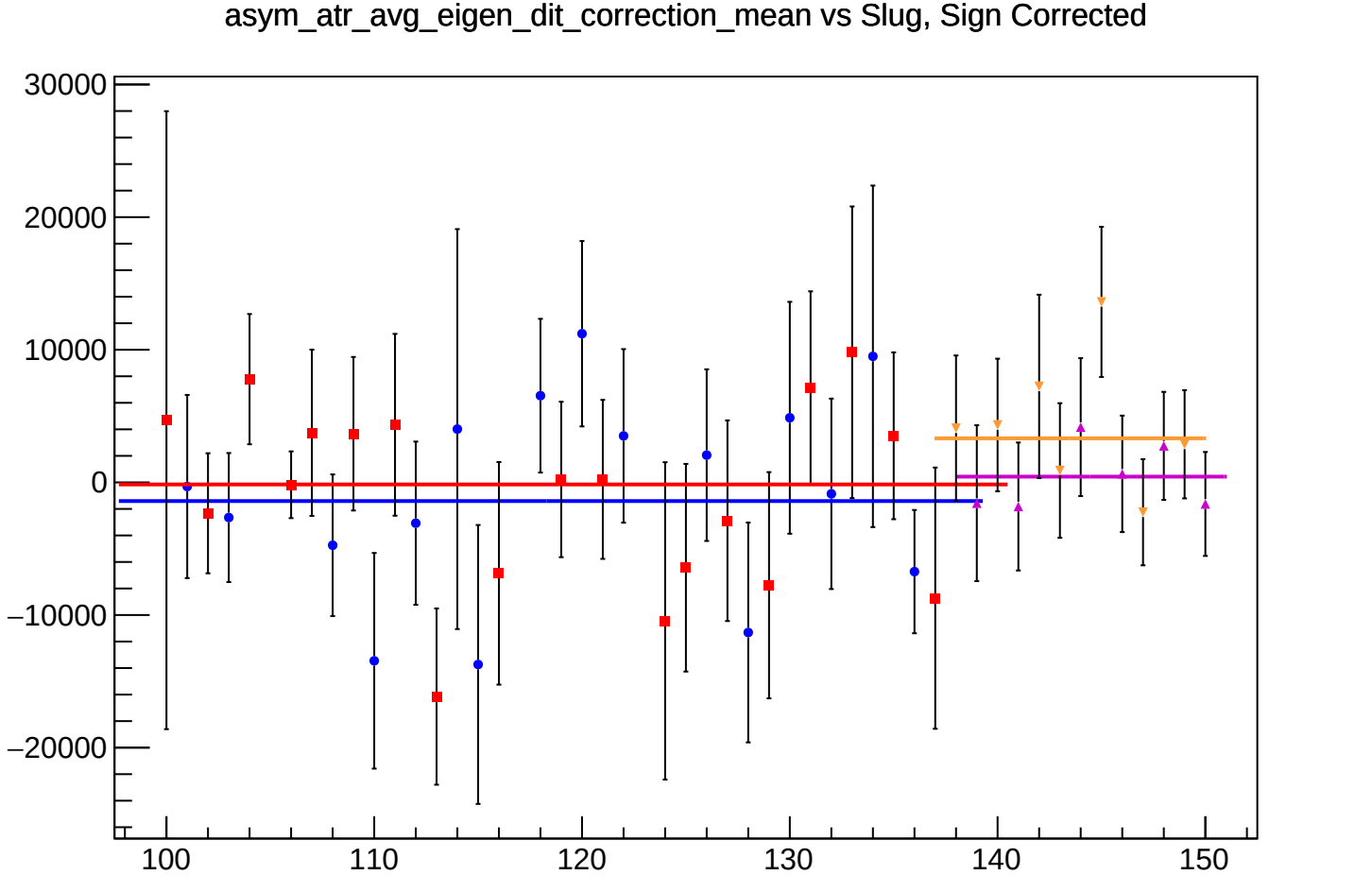
Left: 1912.616+/-0.415 $\chi^2$/NDF: 32277.7/12

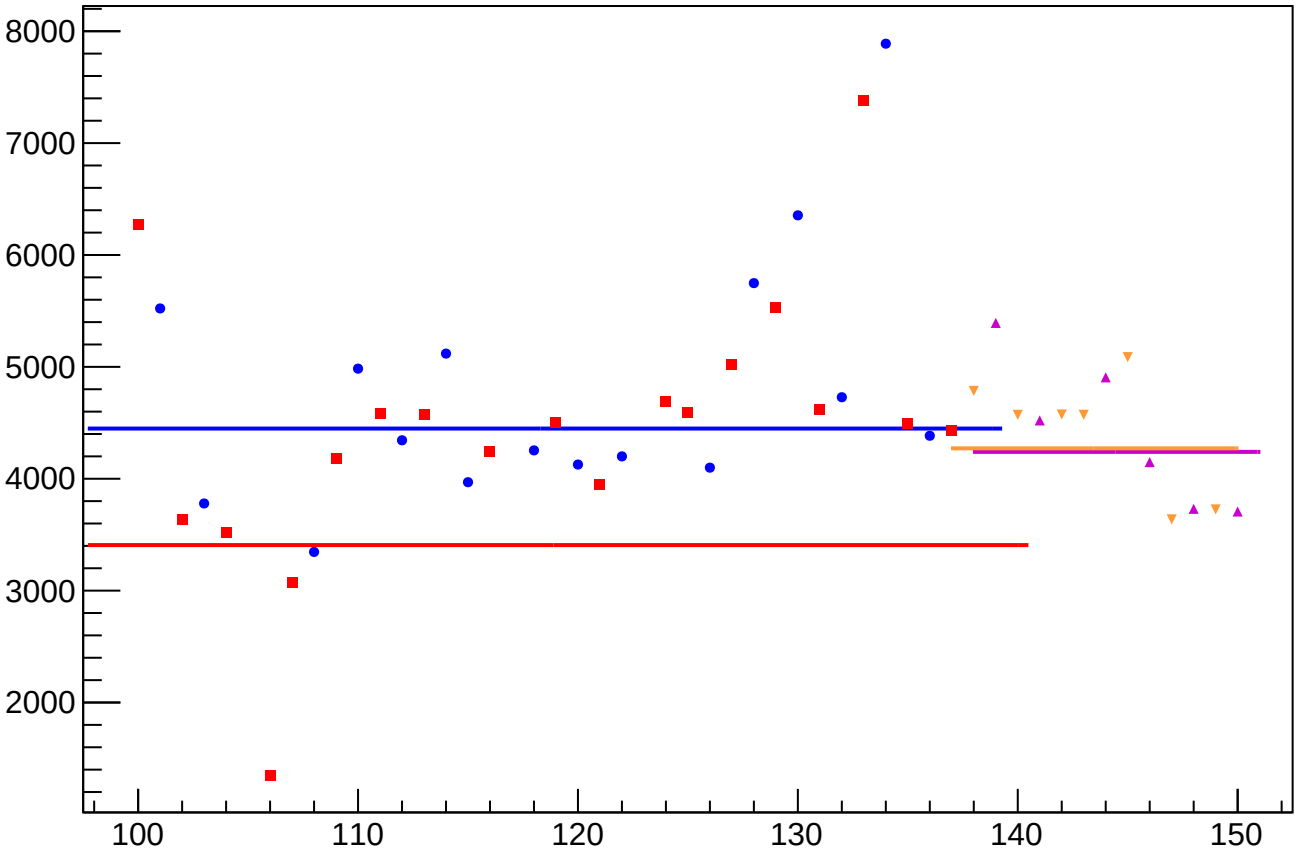
Right: 1963.826+/-0.371 $\chi^2$/NDF: 912018.2/34

In: 1939.235+/-0.393 $\chi^2$/NDF:688280.0/21

Out: 1942.882+/-0.390 $\chi^2$/NDF:264427.7/25

All: 1941.075+/-0.277 $\chi^2$/NDF: 952751.1/47


asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
Right In: -1407.363+/-1689.986 χ²/NDF: 14.2/15
Left Out: 3321.370+/-1867.254 χ²/NDF:5.9/6
Right Out: -155.272+/-1363.639 χ²/NDF: 15.8/18
Left In: 433.589+/-1869.299 χ²/NDF:1.5/5
Left: 1879.061+/-1321.070 χ²/NDF: 8.5/12
Right: -649.016+/-1061.245 χ²/NDF: 30.4/34
In: -579.398+/-1253.614 χ²/NDF:16.2/21
Out: 1053.983+/-1101.241 χ²/NDF:23.9/25
All: 342.541+/-827.351 χ²/NDF: 41.1/47




Right In: 4448.704+/-1.195 $\chi^2$/NDF: 494610.6/15

Left Out: 4271.887+/-1.320 $\chi^2$/NDF:163107.0/6

Right Out: 3407.120+/-0.964 $\chi^2$/NDF: 2326064.2/18

Left In: 4240.226+/-1.322 $\chi^2$/NDF:185667.5/5

Left: 4256.074+/-0.934 $\chi^2$/NDF: 349061.7/12

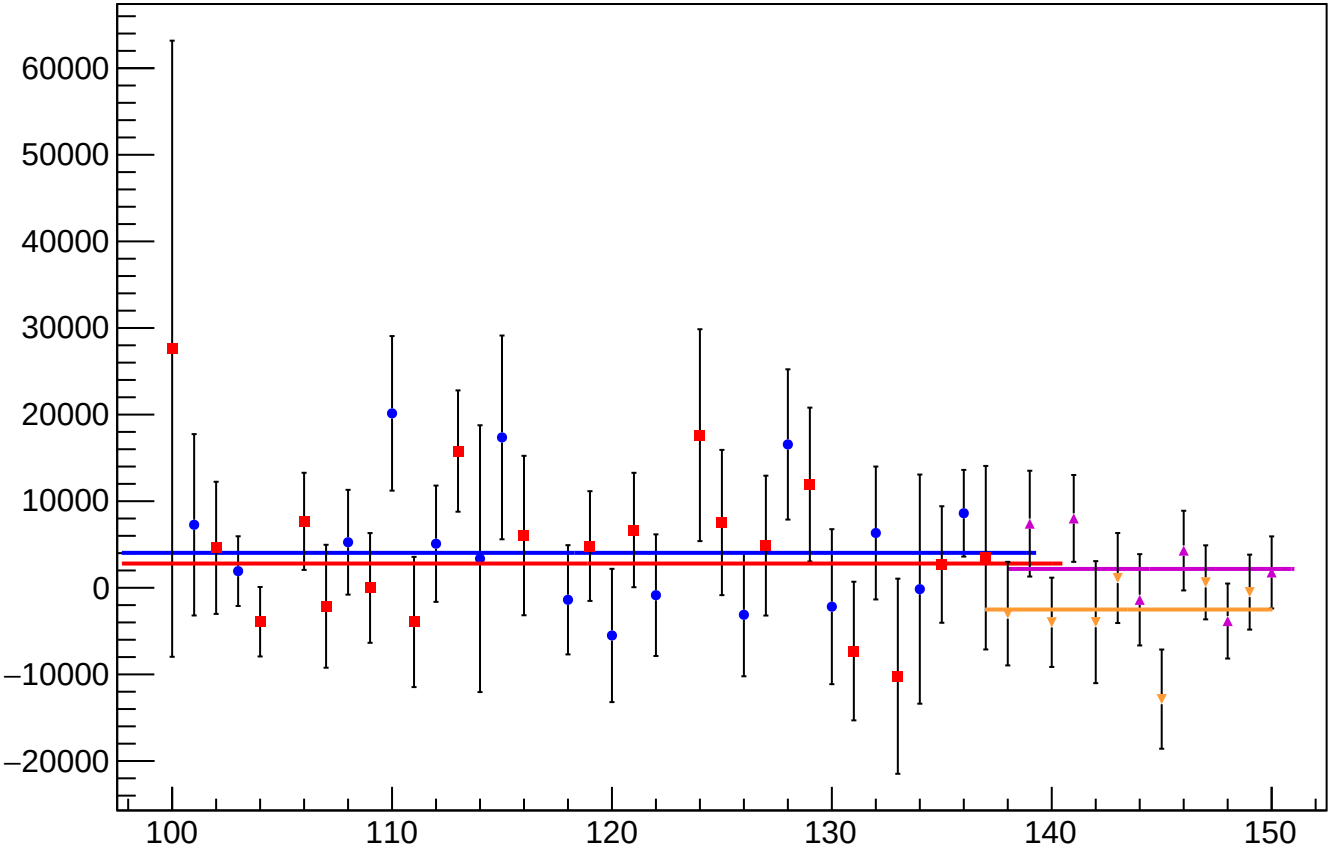
Right: 3817.853+/-0.750 $\chi^2$/NDF: 3280809.4/34

In: 4354.941+/-0.886 $\chi^2$/NDF:693966.5/21

Out: 3707.905+/-0.779 $\chi^2$/NDF:2768932.5/25

All: 3989.731+/-0.585 $\chi^2$/NDF: 3763626.8/47

# asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 4034.572+/-1782.030 $\chi^2$/NDF: 12.3/15

Left Out: -2509.033+/-1956.141 $\chi^2$/NDF:4.6/6

Right Out: 2800.547+/-1671.877 $\chi^2$/NDF: 15.4/18

Left In: 2177.151+/-1957.734 $\chi^2$/NDF:4.7/5

Left: -167.848+/-1383.763 $\chi^2$/NDF: 12.2/12

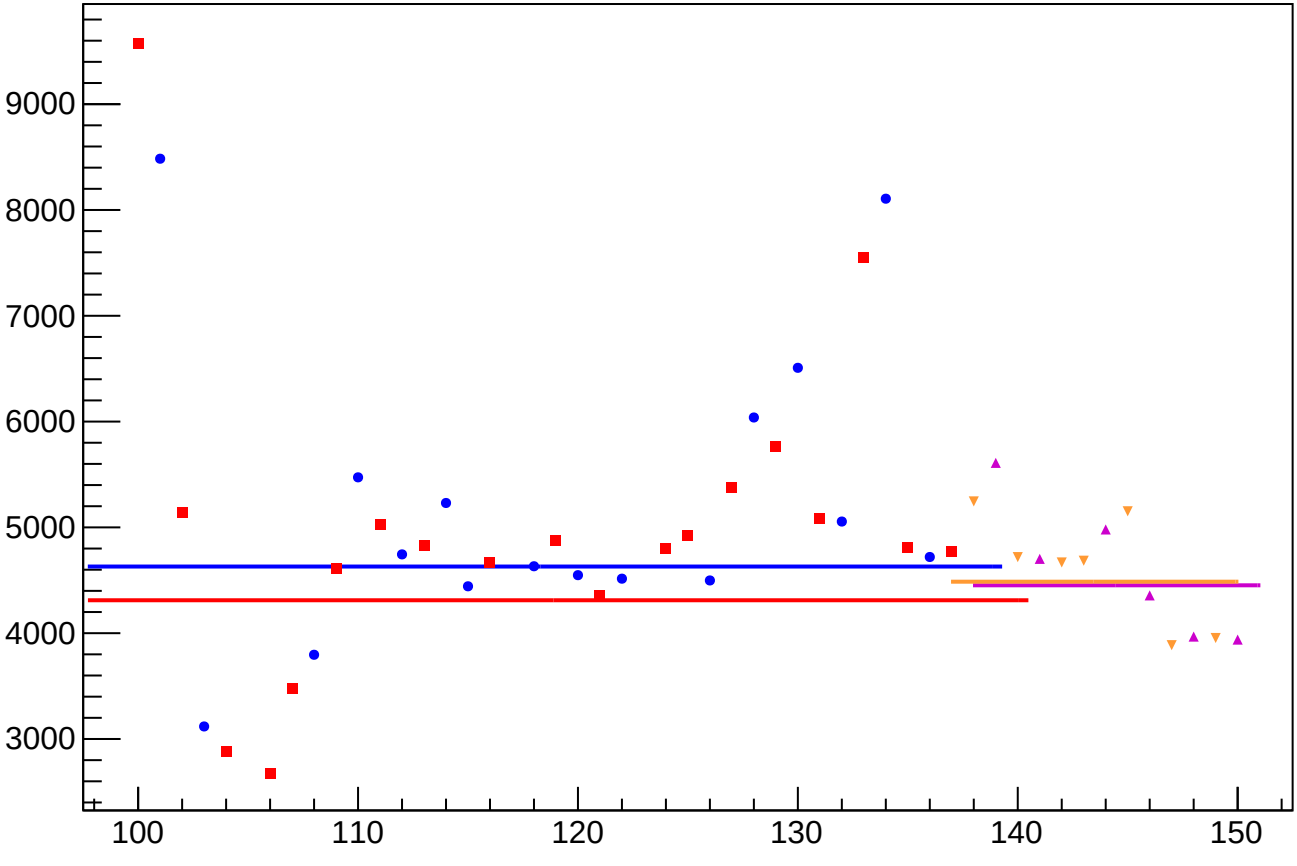
Right: 3378.243+/-1219.278 $\chi^2$/NDF: 28.0/34

In: 3192.936+/-1317.834 $\chi^2$/NDF:17.5/21

Out: 559.237+/-1270.928 $\chi^2$/NDF:24.3/25

All: 1828.382+/-914.815 $\chi^2$/NDF: 43.9/47

# asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 4629.967+/-1.260 $\chi^2$/NDF: 900246.3/15

Left Out: 4486.673+/-1.383 $\chi^2$/NDF:137121.9/6

Right Out: 4311.218+/-1.172 $\chi^2$/NDF: 904737.2/18

Left In: 4452.547+/-1.384 $\chi^2$/NDF:153154.9/5

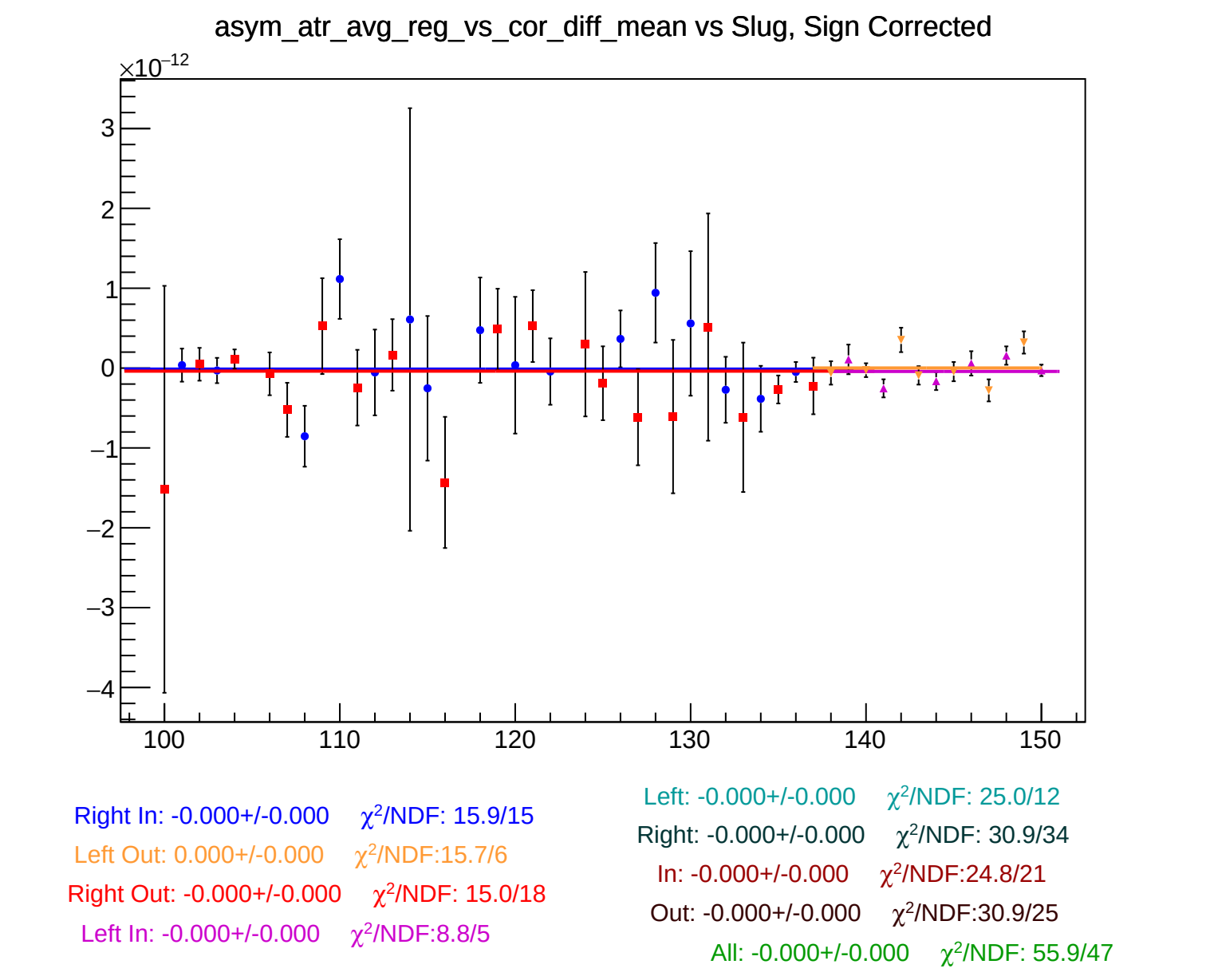
Left: 4469.624+/-0.978 $\chi^2$/NDF: 290581.0/12

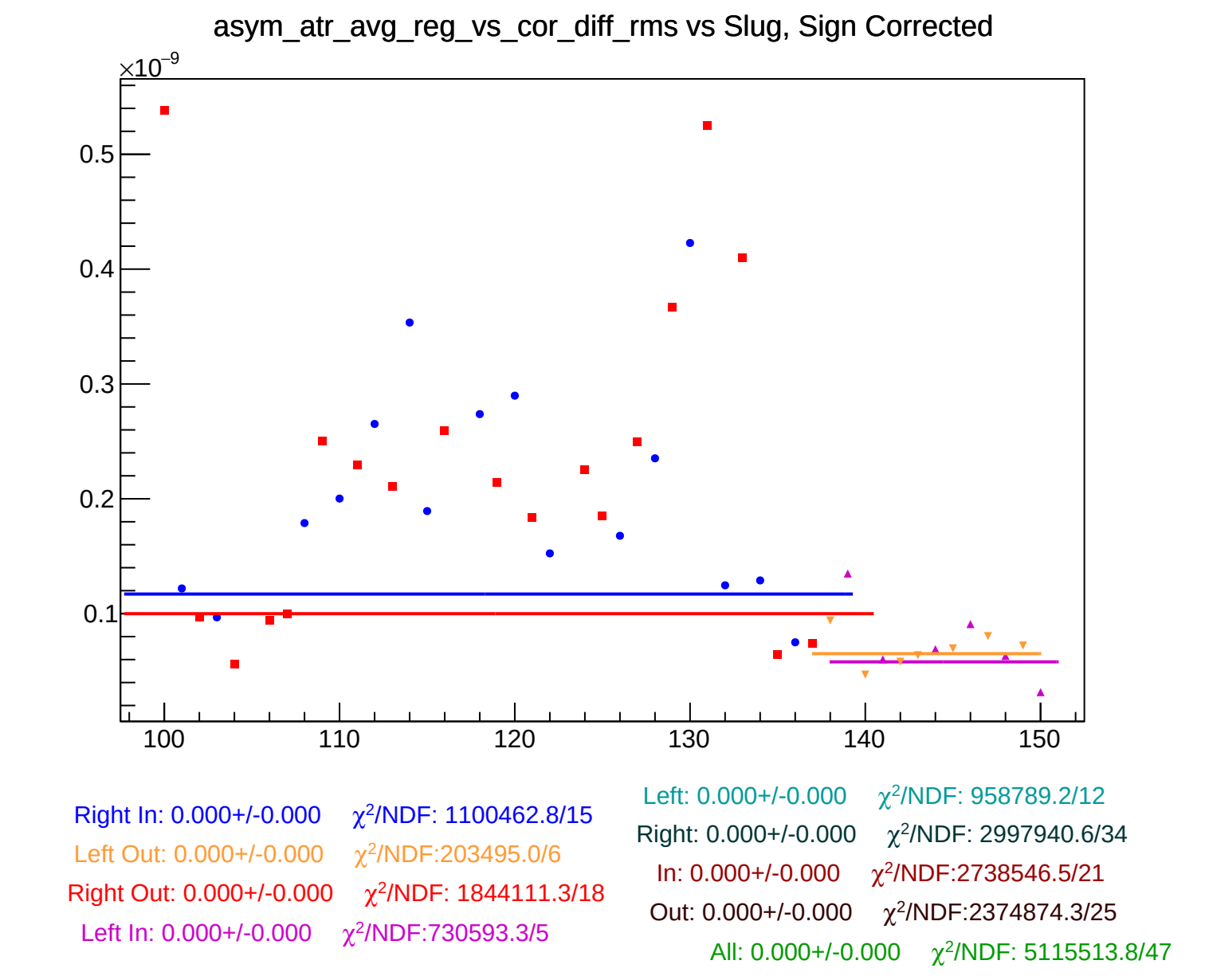
Right: 4459.059+/-0.858 $\chi^2$/NDF: 1839292.8/34

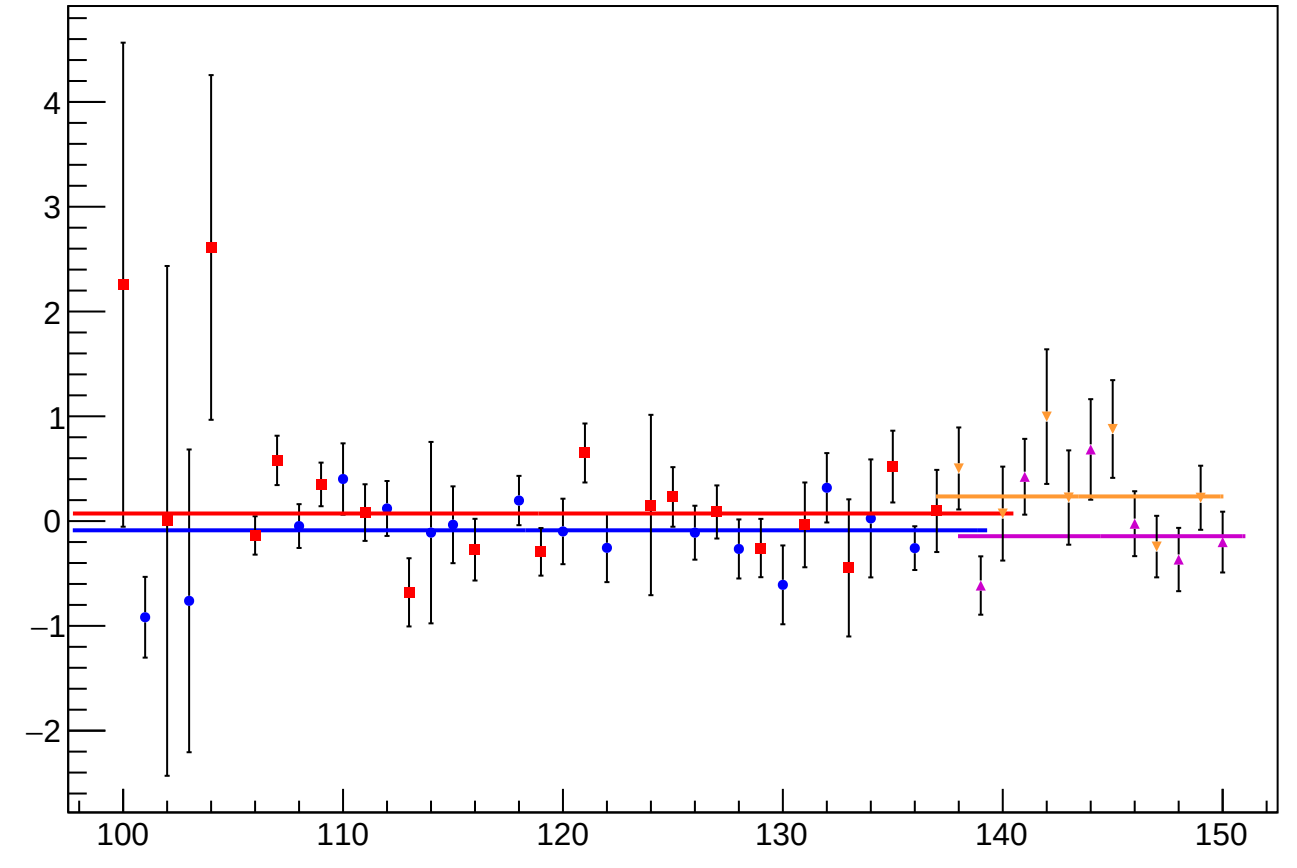
In: 4549.574+/-0.932 $\chi^2$/NDF:1062384.3/21

Out: 4384.540+/-0.894 $\chi^2$/NDF:1051225.4/25

All: 4463.652+/-0.645 $\chi^2$/NDF: 2129939.7/47


asym_atr_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
−4
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 15.9/15
Left Out: 0.000+/-0.000 χ²/NDF:15.7/6
Right Out: -0.000+/-0.000 χ²/NDF: 15.0/18
Left In: -0.000+/-0.000 χ²/NDF:8.8/5
Left: -0.000+/-0.000 χ²/NDF: 25.0/12
Right: -0.000+/-0.000 χ²/NDF: 30.9/34
In: -0.000+/-0.000 χ²/NDF:24.8/21
Out: -0.000+/-0.000 χ²/NDF:30.9/25
All: -0.000+/-0.000 χ²/NDF: 55.9/47


asym_atr_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1100462.8/15
Left Out: 0.000+/-0.000 χ²/NDF:203495.0/6
Right Out: 0.000+/-0.000 χ²/NDF: 1844111.3/18
Left In: 0.000+/-0.000 χ²/NDF:730593.3/5
Left: 0.000+/-0.000 χ²/NDF: 958789.2/12
Right: 0.000+/-0.000 χ²/NDF: 2997940.6/34
In: 0.000+/-0.000 χ²/NDF:2738546.5/21
Out: 0.000+/-0.000 χ²/NDF:2374874.3/25
All: 0.000+/-0.000 χ²/NDF: 5115513.8/47




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.235+/-0.148 $\chi^2$/NDF:6.6/6

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.144+/-0.131 $\chi^2$/NDF:9.0/5

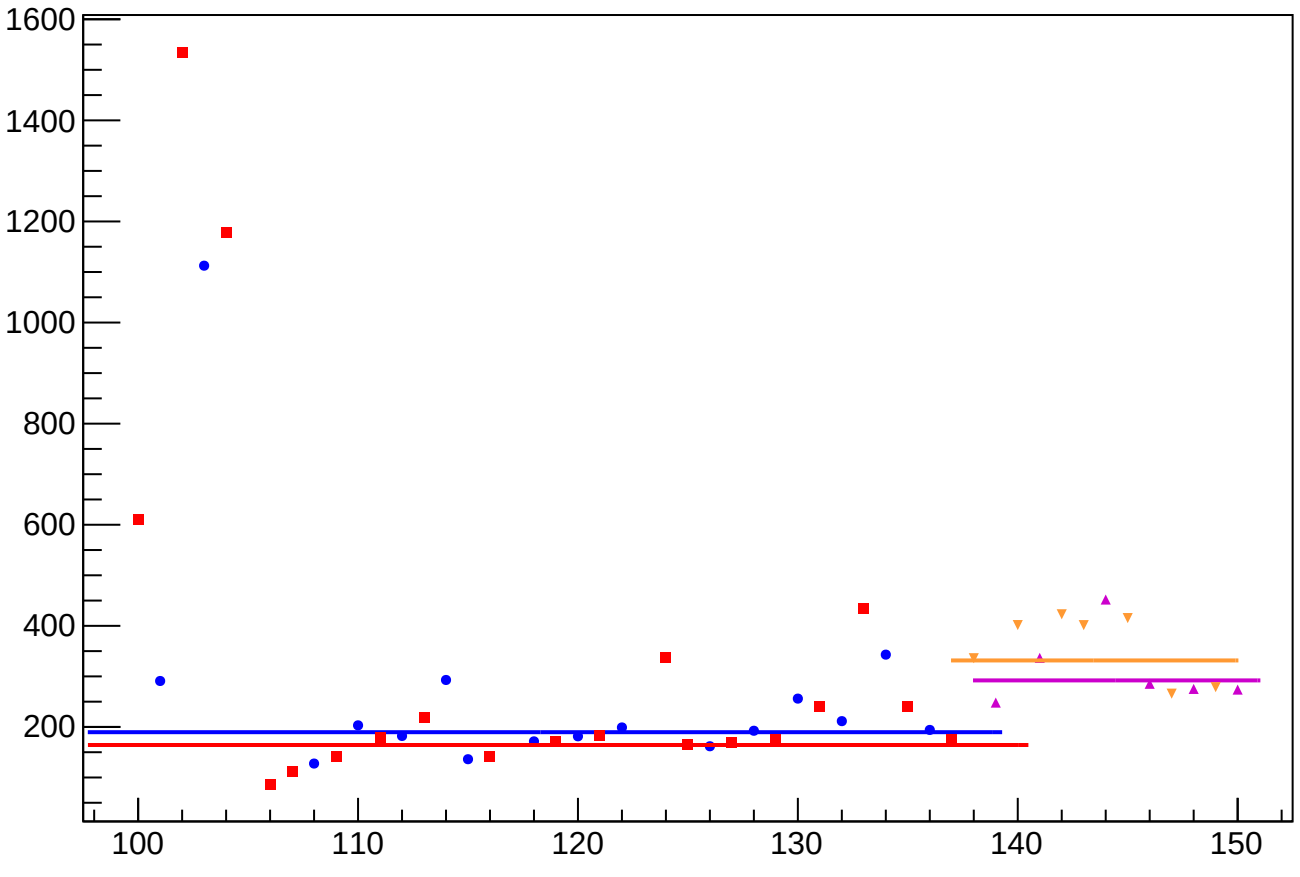
Left: 0.023+/-0.098 $\chi^2$/NDF: 19.3/12

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.102+/-0.066 $\chi^2$/NDF:23.0/21

Out: 0.102+/-0.063 $\chi^2$/NDF:36.2/25

All: 0.005+/-0.046 $\chi^2$/NDF: 64.2/47




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 331.558+/-0.105 $\chi^2$/NDF:362039.2/6

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 292.075+/-0.093 $\chi^2$/NDF:317433.2/5

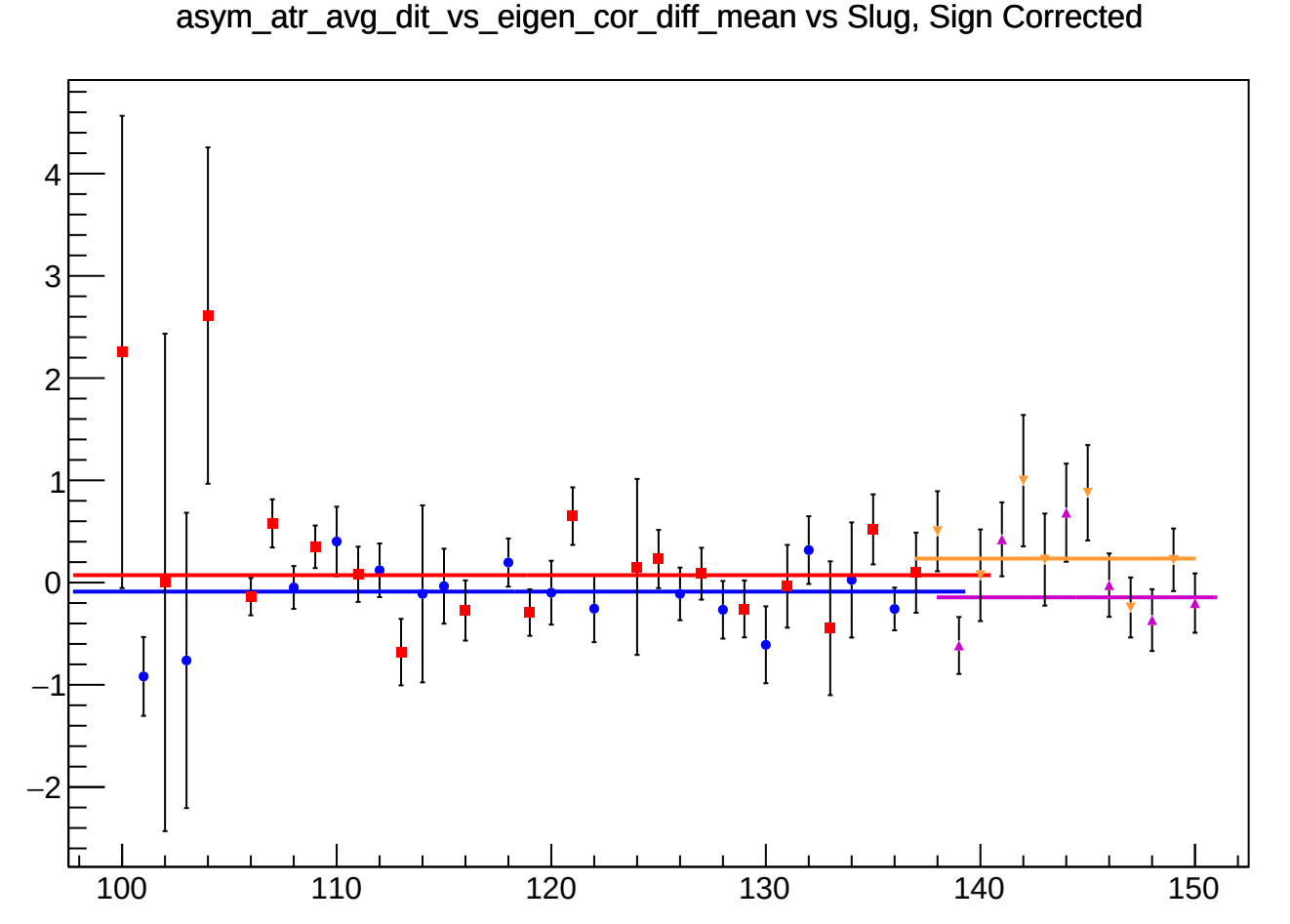
Left: 309.463+/-0.069 $\chi^2$/NDF: 759301.1/12

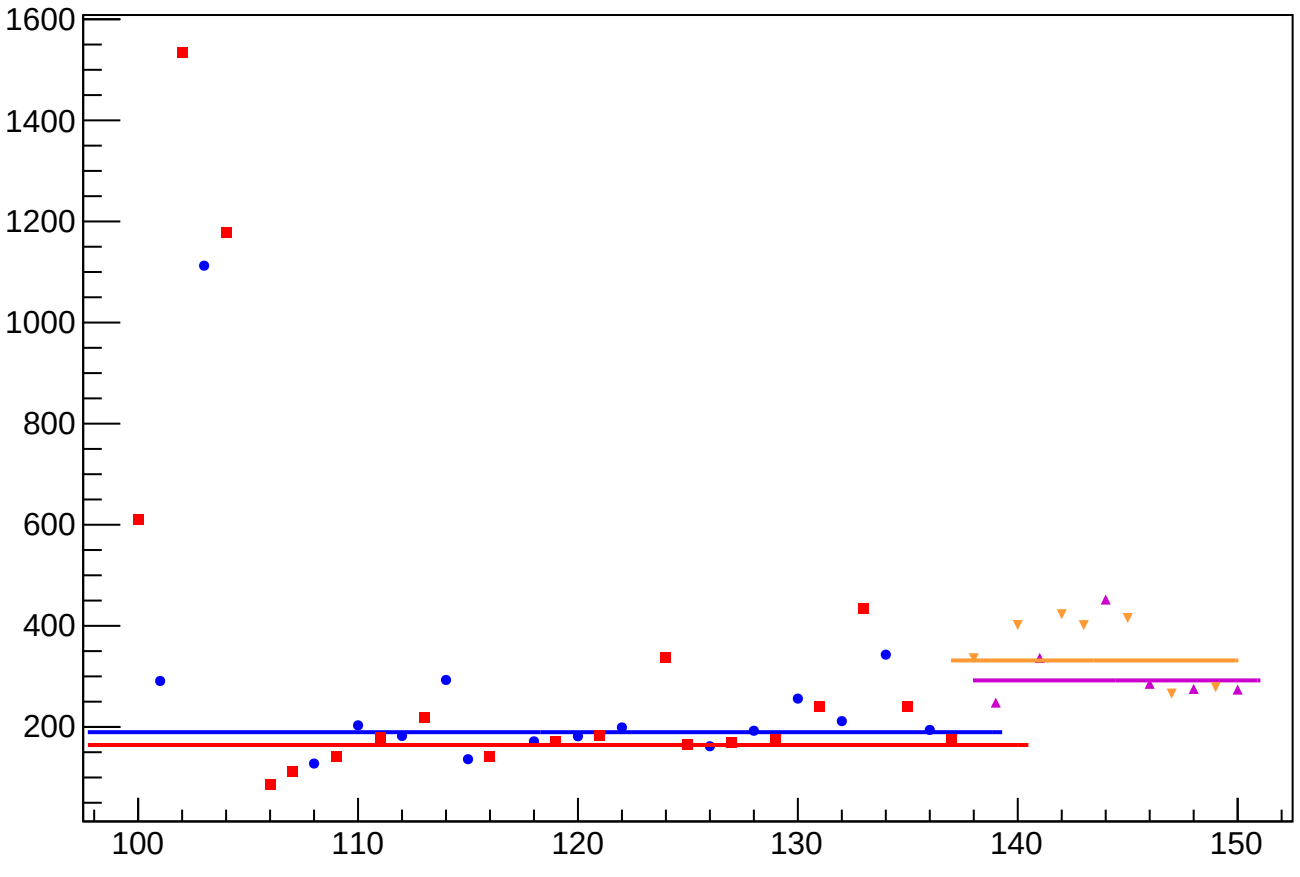
Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 215.774+/-0.047 $\chi^2$/NDF:2691902.7/21

Out: 194.930+/-0.045 $\chi^2$/NDF:5096820.2/25

All: 204.873+/-0.032 $\chi^2$/NDF: 7892251.2/47


asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
4
3
2
1
0
−1
−2
100
110
120
130
140
150
Right In: -0.088+/-0.077 χ²/NDF: 13.9/15
Left Out: 0.235+/-0.148 χ²/NDF:6.6/6
Right Out: 0.072+/-0.070 χ²/NDF: 28.7/18
Left In: -0.144+/-0.131 χ²/NDF:9.0/5
Left: 0.023+/-0.098 χ²/NDF: 19.3/12
Right: -0.000+/-0.052 χ²/NDF: 44.9/34
In: -0.102+/-0.066 χ²/NDF:23.0/21
Out: 0.102+/-0.063 χ²/NDF:36.2/25
All: 0.005+/-0.046 χ²/NDF: 64.2/47




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 331.558+/-0.105 $\chi^2$/NDF:362039.2/6

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 292.075+/-0.093 $\chi^2$/NDF:317433.2/5

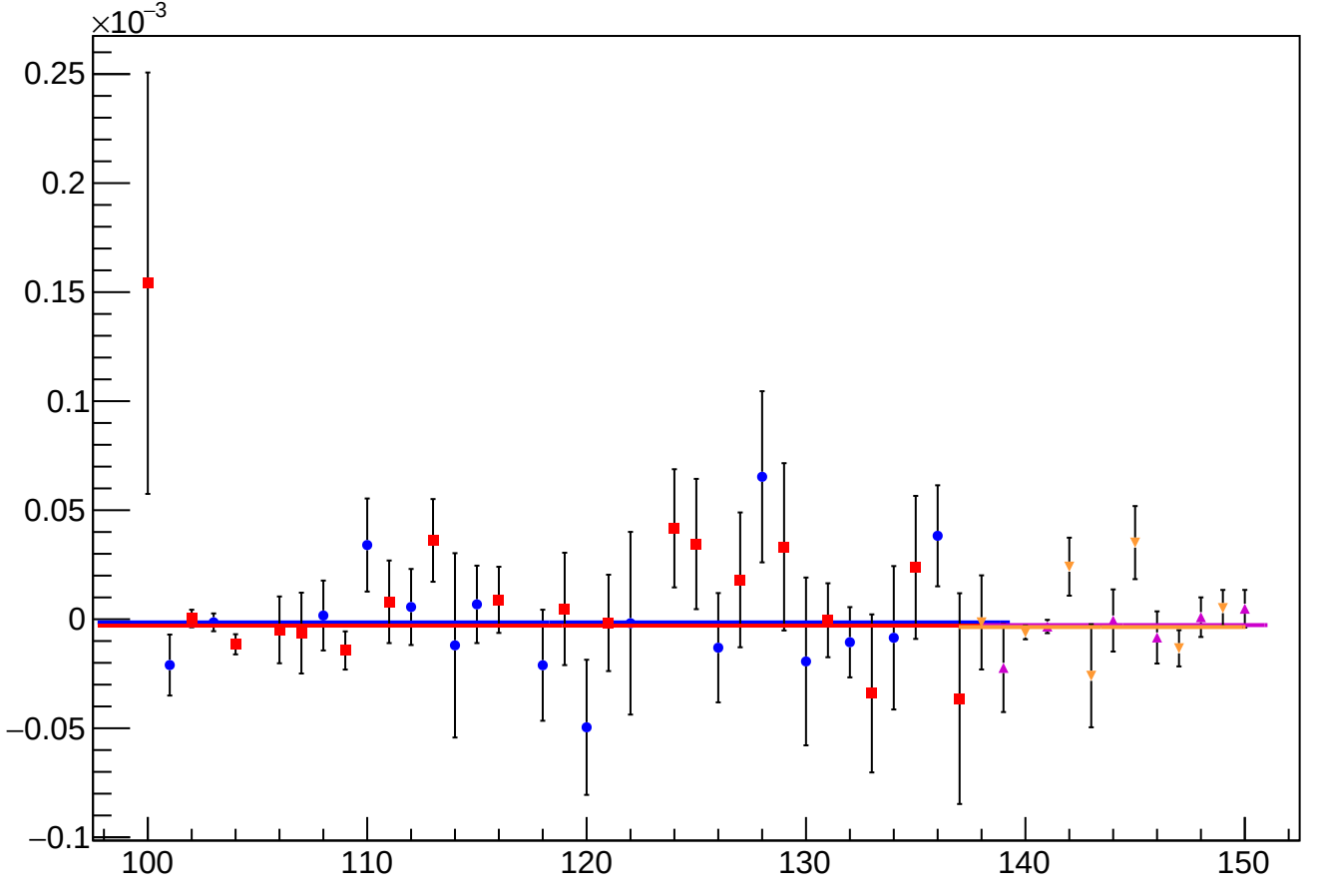
Left: 309.463+/-0.069 $\chi^2$/NDF: 759301.1/12

Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 215.774+/-0.047 $\chi^2$/NDF:2691902.7/21

Out: 194.930+/-0.045 $\chi^2$/NDF:5096820.2/25

All: 204.873+/-0.032 $\chi^2$/NDF: 7892251.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.1/5

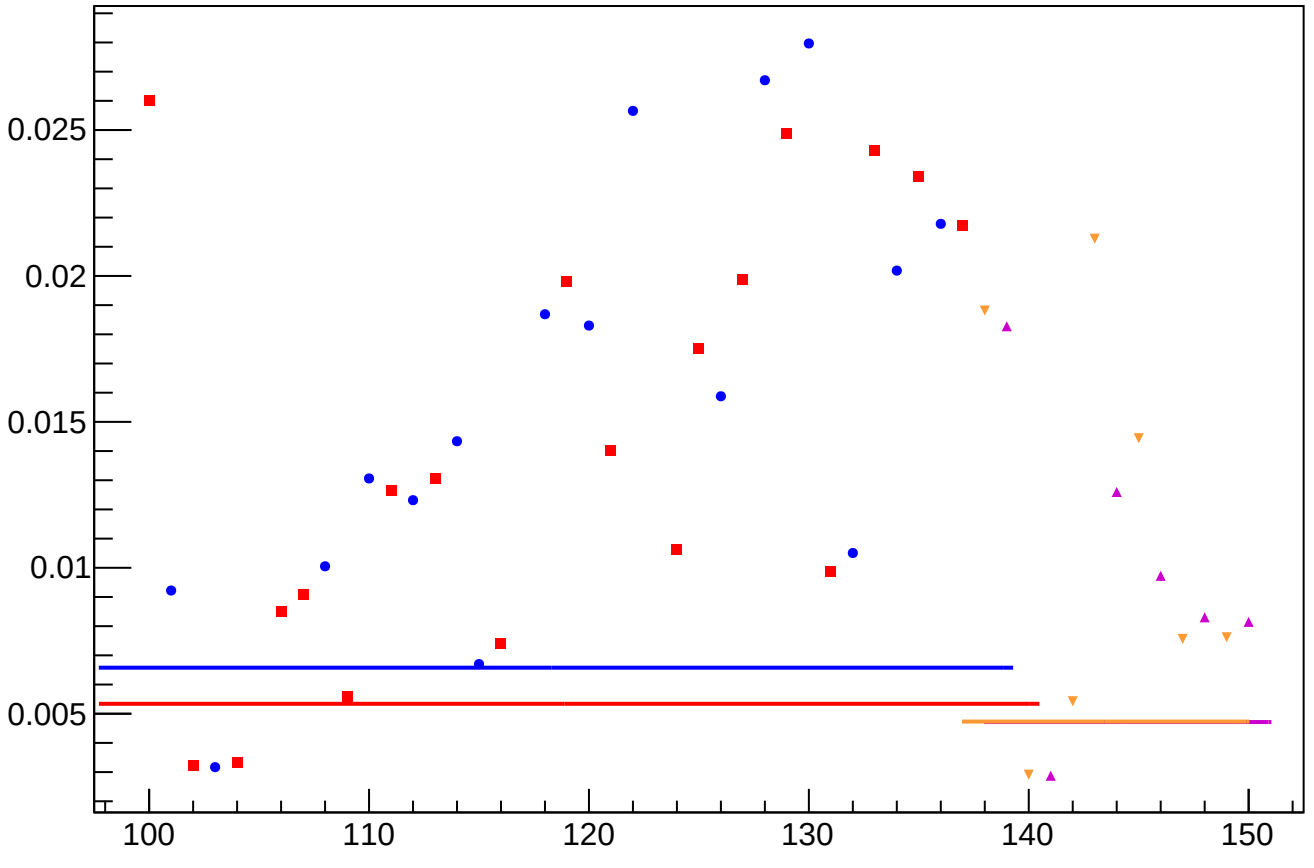
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 52.2/47




Right In: 0.007+/-0.000 $\chi^2$/NDF: 5928012.0/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:3639759.2/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5685915.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:3212181.3/5

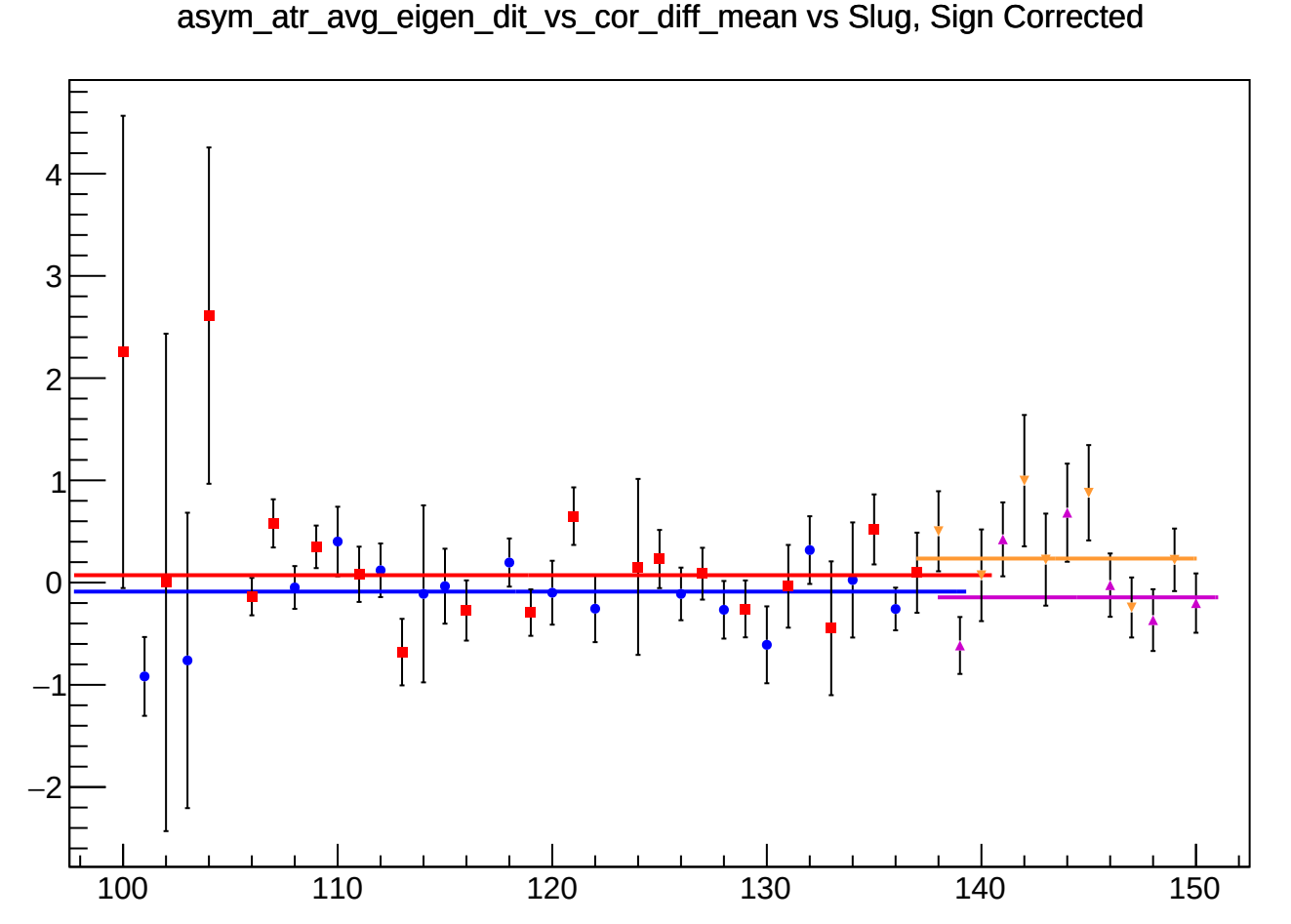
Left: 0.005+/-0.000 $\chi^2$/NDF: 6851977.5/12

Right: 0.006+/-0.000 $\chi^2$/NDF: 11788382.8/34

In: 0.005+/-0.000 $\chi^2$/NDF:9530216.5/21

Out: 0.005+/-0.000 $\chi^2$/NDF:9380000.3/25

All: 0.005+/-0.000 $\chi^2$/NDF: 18948438.6/47




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.235+/-0.148 $\chi^2$/NDF:6.6/6

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.144+/-0.131 $\chi^2$/NDF:9.0/5

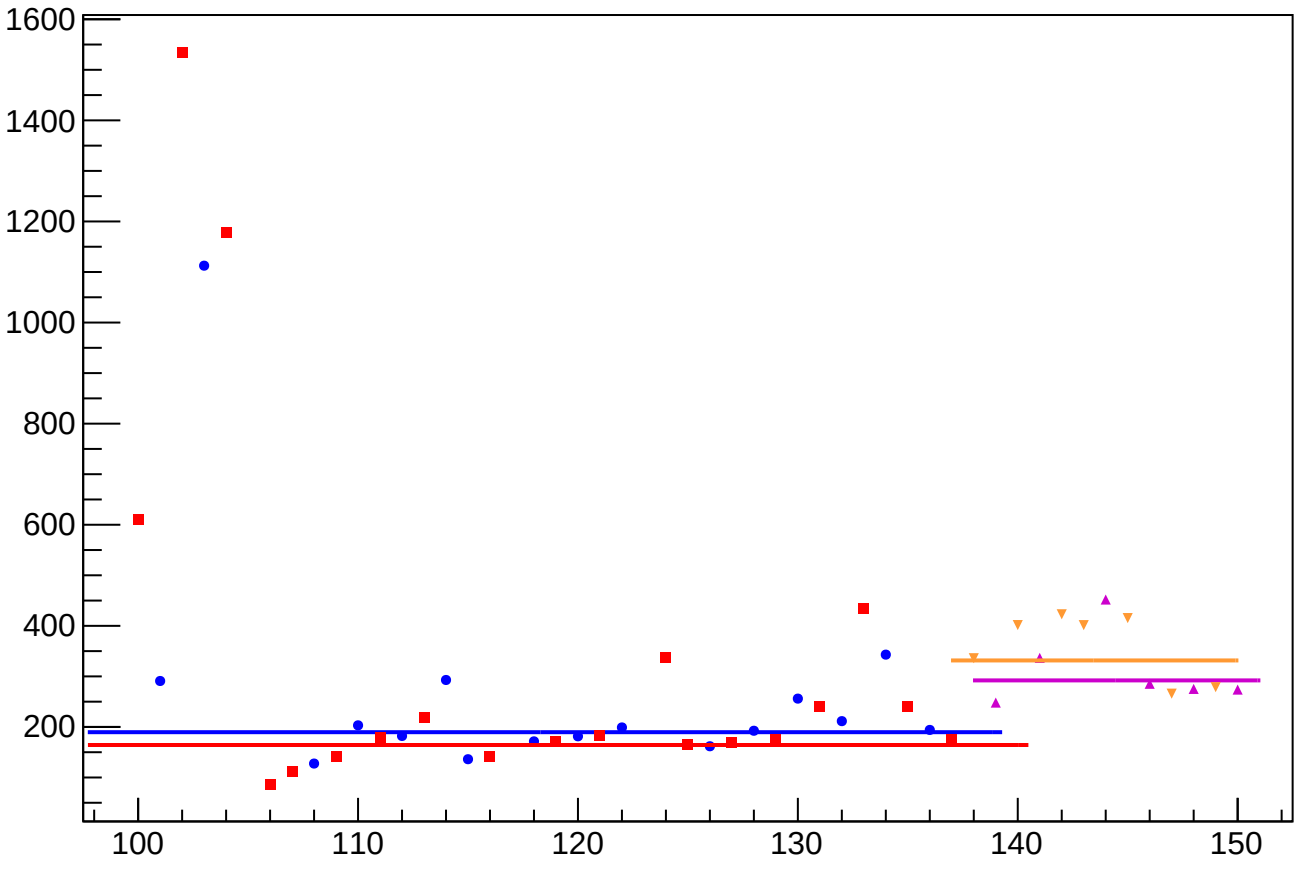
Left: 0.023+/-0.098 $\chi^2$/NDF: 19.3/12

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.102+/-0.066 $\chi^2$/NDF:23.0/21

Out: 0.102+/-0.063 $\chi^2$/NDF:36.2/25

All: 0.005+/-0.046 $\chi^2$/NDF: 64.2/47




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465464.1/15

Left Out: 331.563+/-0.105 $\chi^2$/NDF:362024.3/6

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 292.080+/-0.093 $\chi^2$/NDF:317419.9/5

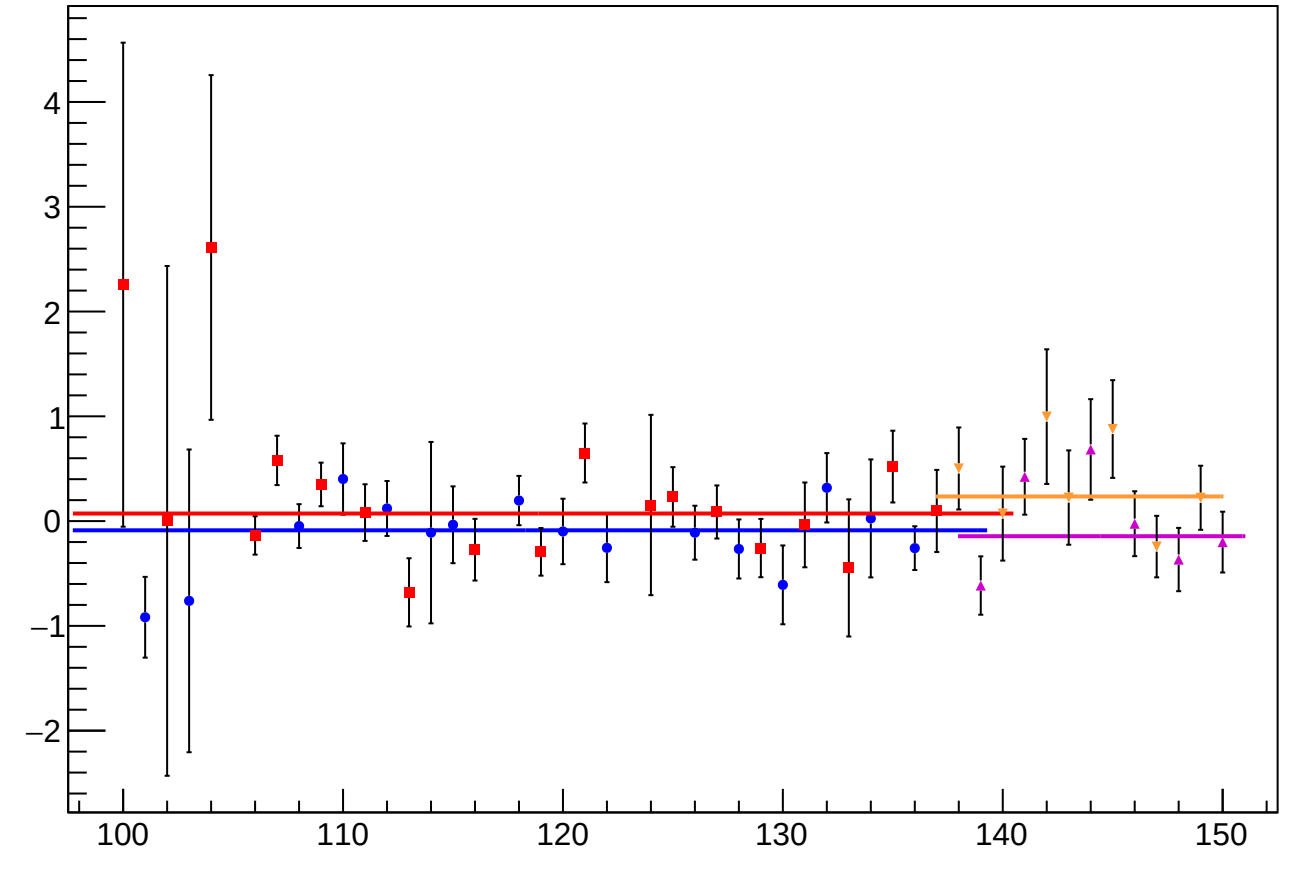
Left: 309.467+/-0.069 $\chi^2$/NDF: 759271.7/12

Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 215.774+/-0.047 $\chi^2$/NDF:2691953.5/21

Out: 194.929+/-0.045 $\chi^2$/NDF:5096880.2/25

All: 204.873+/-0.032 $\chi^2$/NDF: 7892367.9/47




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.235+/-0.148 $\chi^2$/NDF:6.6/6

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.144+/-0.131 $\chi^2$/NDF:9.0/5

Left: 0.023+/-0.098 $\chi^2$/NDF: 19.3/12

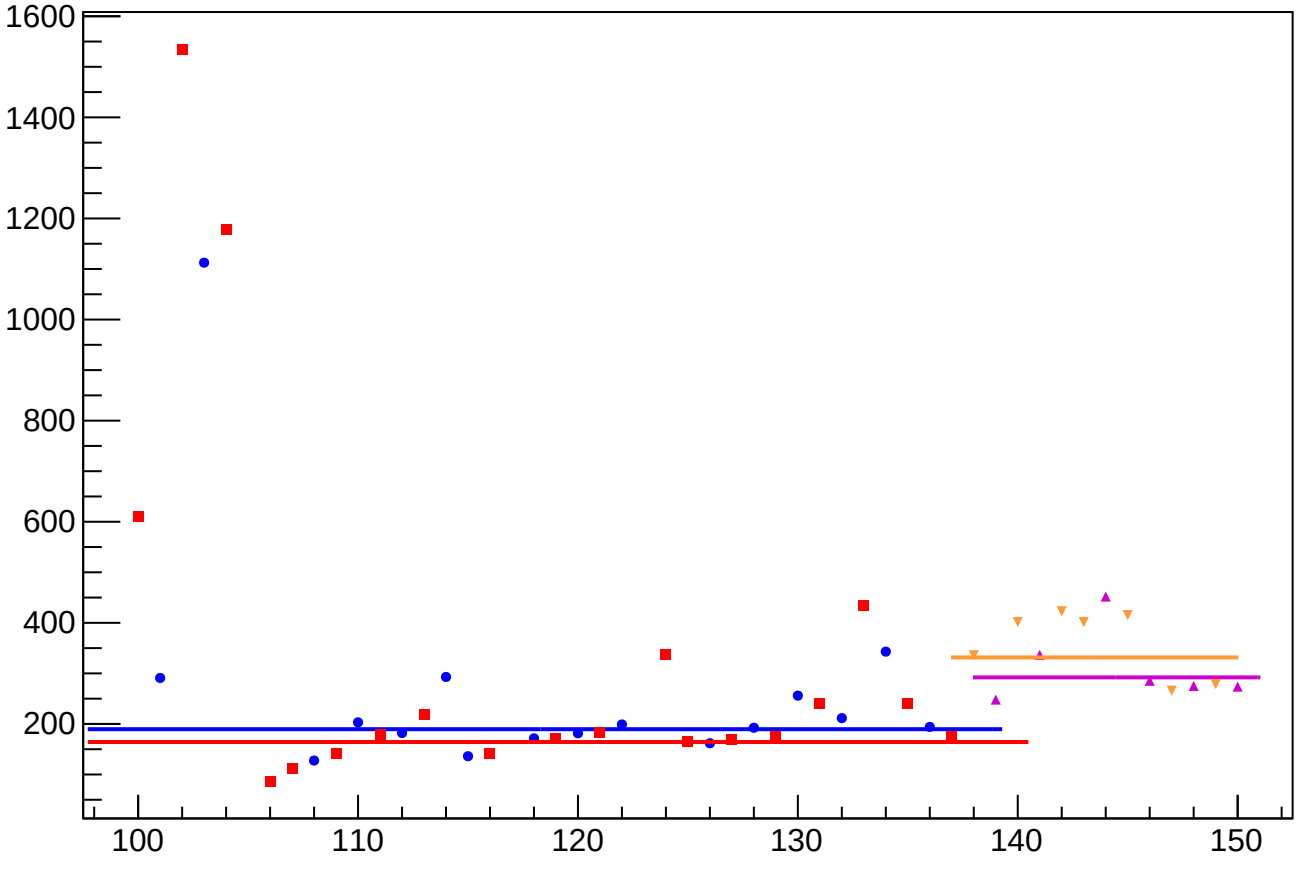
Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.102+/-0.066 $\chi^2$/NDF:23.0/21

Out: 0.102+/-0.063 $\chi^2$/NDF:36.2/25

All: 0.005+/-0.046 $\chi^2$/NDF: 64.2/47

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465464.1/15

Left Out: 331.563+/-0.105 $\chi^2$/NDF:362024.3/6

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 292.080+/-0.093 $\chi^2$/NDF:317419.9/5

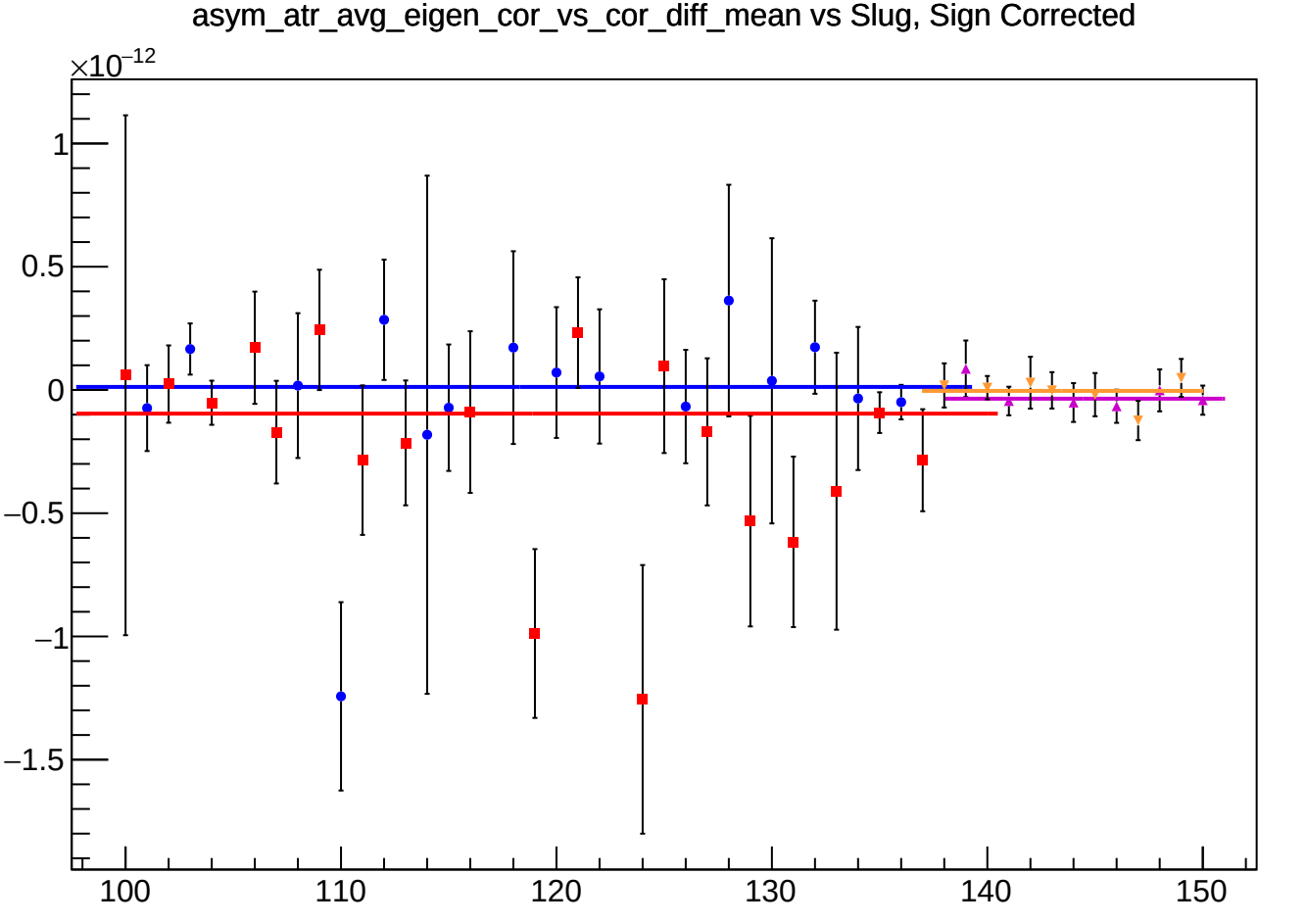
Left: 309.467+/-0.069 $\chi^2$/NDF: 759271.7/12

Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 215.774+/-0.047 $\chi^2$/NDF:2691953.5/21

Out: 194.929+/-0.045 $\chi^2$/NDF:5096880.2/25

All: 204.873+/-0.032 $\chi^2$/NDF: 7892367.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/5

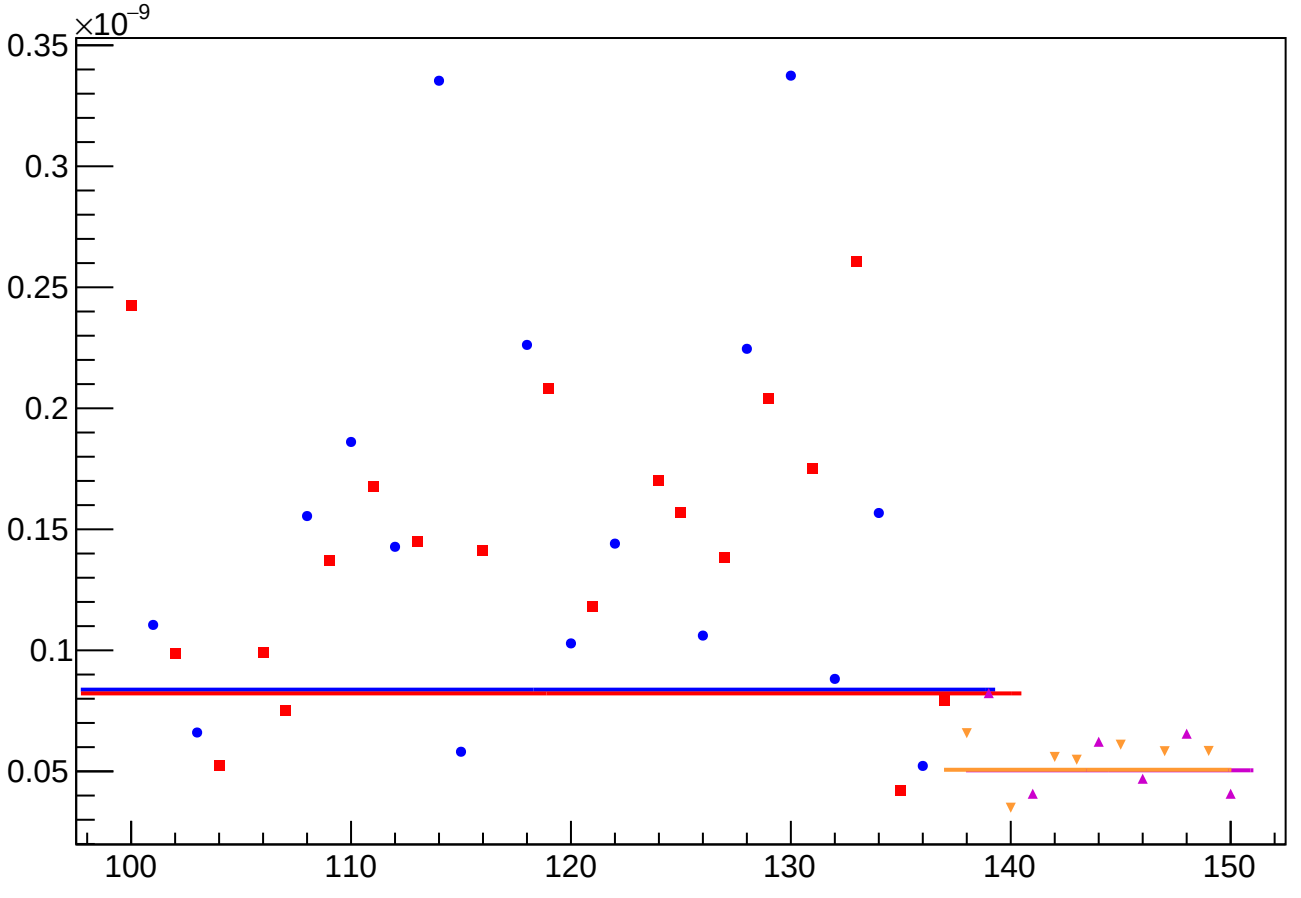
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2109060.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:353921.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2271900.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:377103.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 731087.4/12

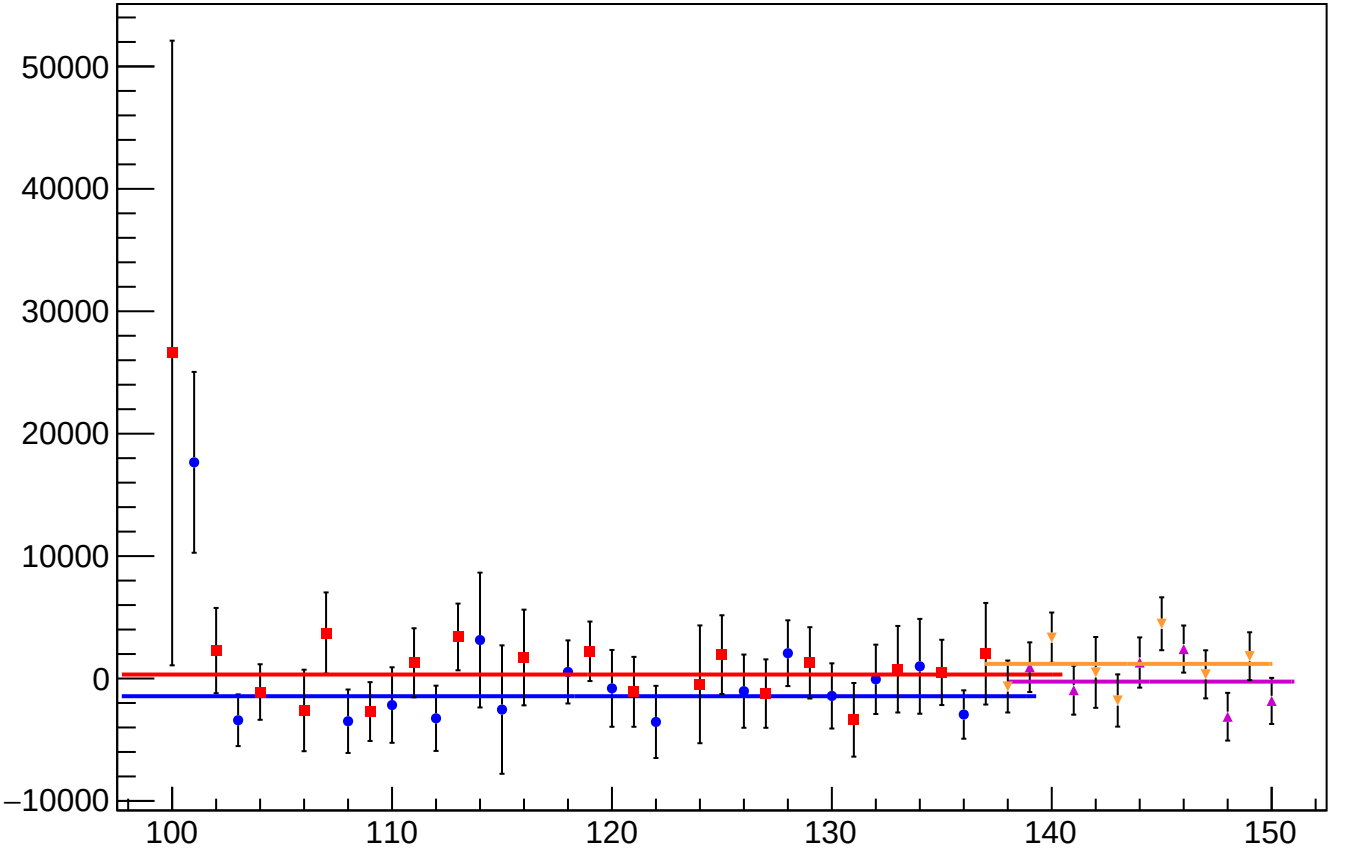
Right: 0.000+/-0.000 $\chi^2$/NDF: 4382137.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3245604.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3344190.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6590587.9/47

# reg_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.547+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1196.849+/-807.487 $\chi^2$/NDF:6.5/6

Right Out: 325.908+/-702.648 $\chi^2$/NDF: 9.9/18

Left In: -253.248+/-804.288 $\chi^2$/NDF:5.8/5

Left: 468.922+/-569.845 $\chi^2$/NDF: 13.9/12

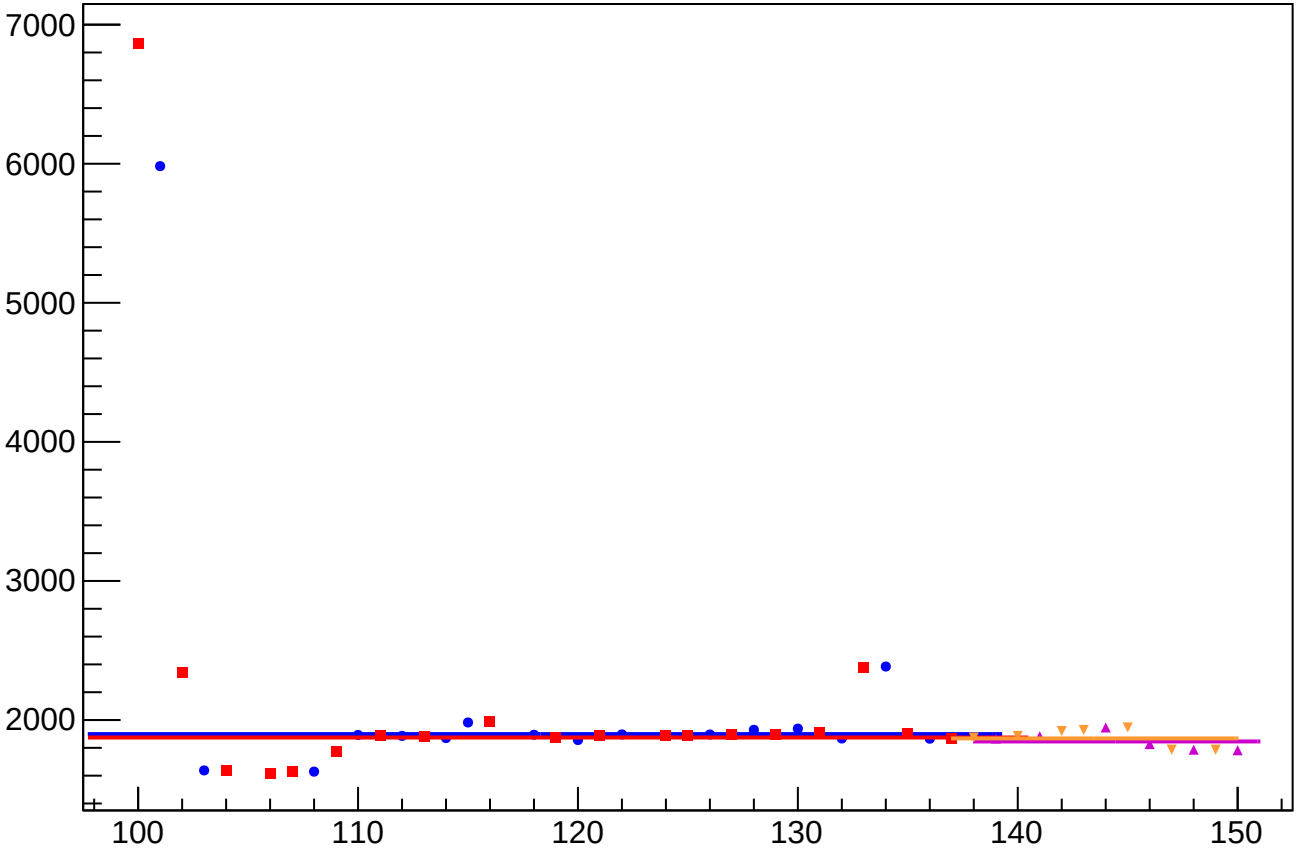
Right: -534.850+/-503.936 $\chi^2$/NDF: 26.5/34

In: -913.115+/-537.745 $\chi^2$/NDF:20.5/21

Out: 701.205+/-530.064 $\chi^2$/NDF:17.1/25

All: -94.344+/-377.498 $\chi^2$/NDF: 42.2/47

# reg_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.2/15

Left Out: 1867.799+/-0.571 $\chi^2$/NDF:11927.7/6

Right Out: 1874.251+/-0.495 $\chi^2$/NDF: 207657.7/18

Left In: 1845.975+/-0.569 $\chi^2$/NDF:9994.0/5

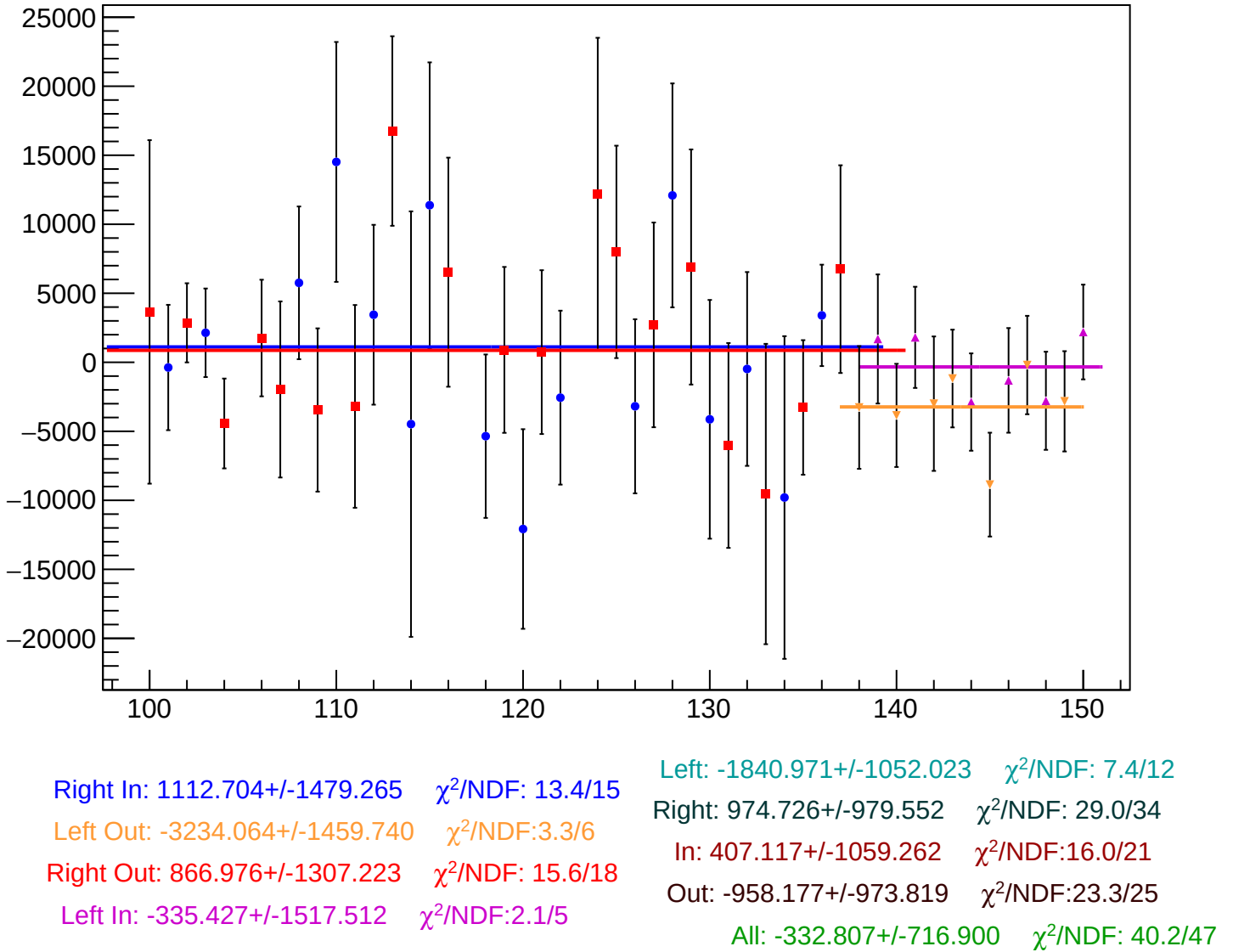
Left: 1856.843+/-0.403 $\chi^2$/NDF: 22655.0/12

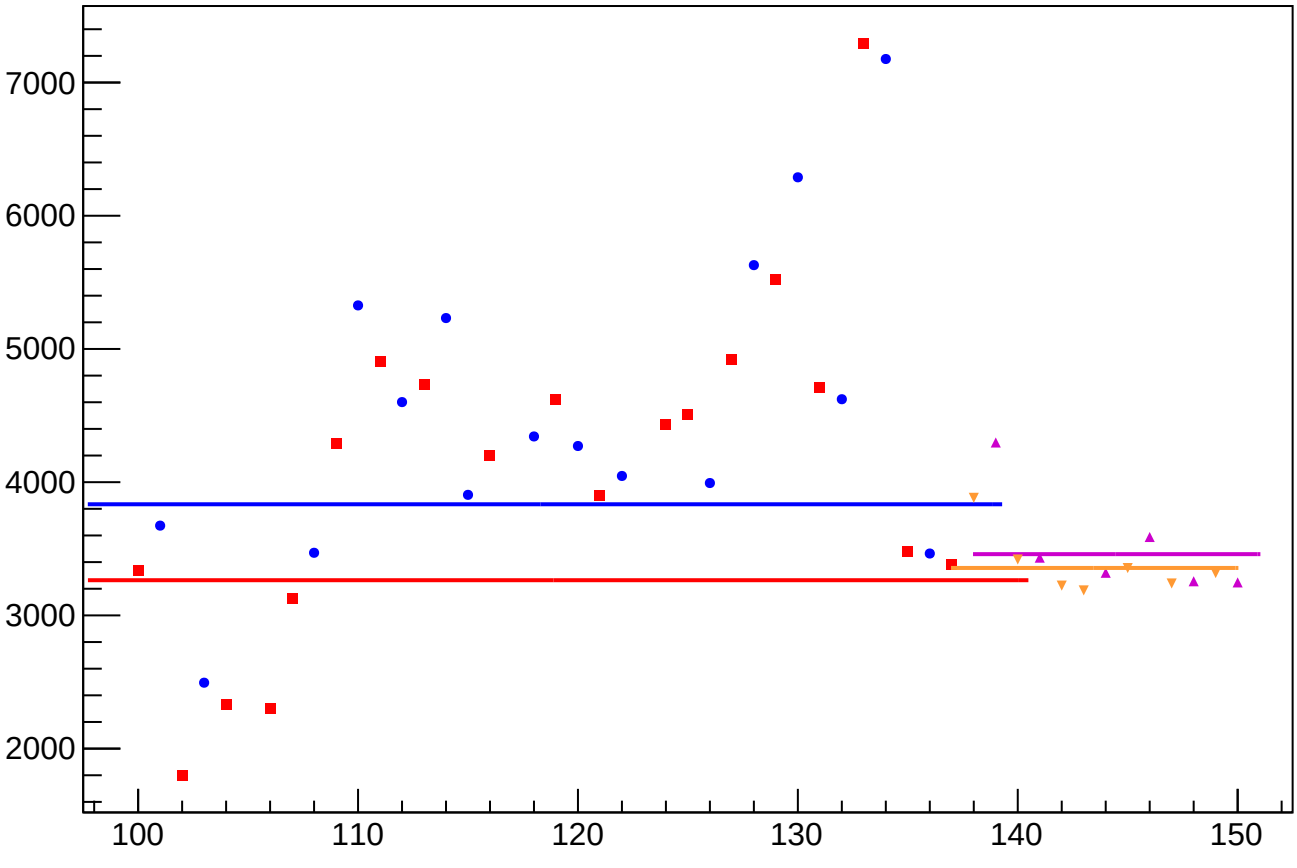
Right: 1886.144+/-0.356 $\chi^2$/NDF: 906364.0/34

In: 1875.200+/-0.380 $\chi^2$/NDF:712283.8/21

Out: 1871.481+/-0.374 $\chi^2$/NDF:219658.3/25

All: 1873.310+/-0.267 $\chi^2$/NDF: 931990.7/47


asym_atr_dd_reg_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 1112.704+/-1479.265 χ²/NDF: 13.4/15
Left Out: -3234.064+/-1459.740 χ²/NDF:3.3/6
Right Out: 866.976+/-1307.223 χ²/NDF: 15.6/18
Left In: -335.427+/-1517.512 χ²/NDF:2.1/5
Left: -1840.971+/-1052.023 χ²/NDF: 7.4/12
Right: 974.726+/-979.552 χ²/NDF: 29.0/34
In: 407.117+/-1059.262 χ²/NDF:16.0/21
Out: -958.177+/-973.819 χ²/NDF:23.3/25
All: -332.807+/-716.900 χ²/NDF: 40.2/47




Right In: 3834.164+/-1.046 $\chi^2$/NDF: 956775.6/15

Left Out: 3356.154+/-1.032 $\chi^2$/NDF:37018.8/6

Right Out: 3264.110+/-0.924 $\chi^2$/NDF: 1864241.4/18

Left In: 3459.774+/-1.073 $\chi^2$/NDF:84000.4/5

Left: 3405.954+/-0.744 $\chi^2$/NDF: 125862.7/12

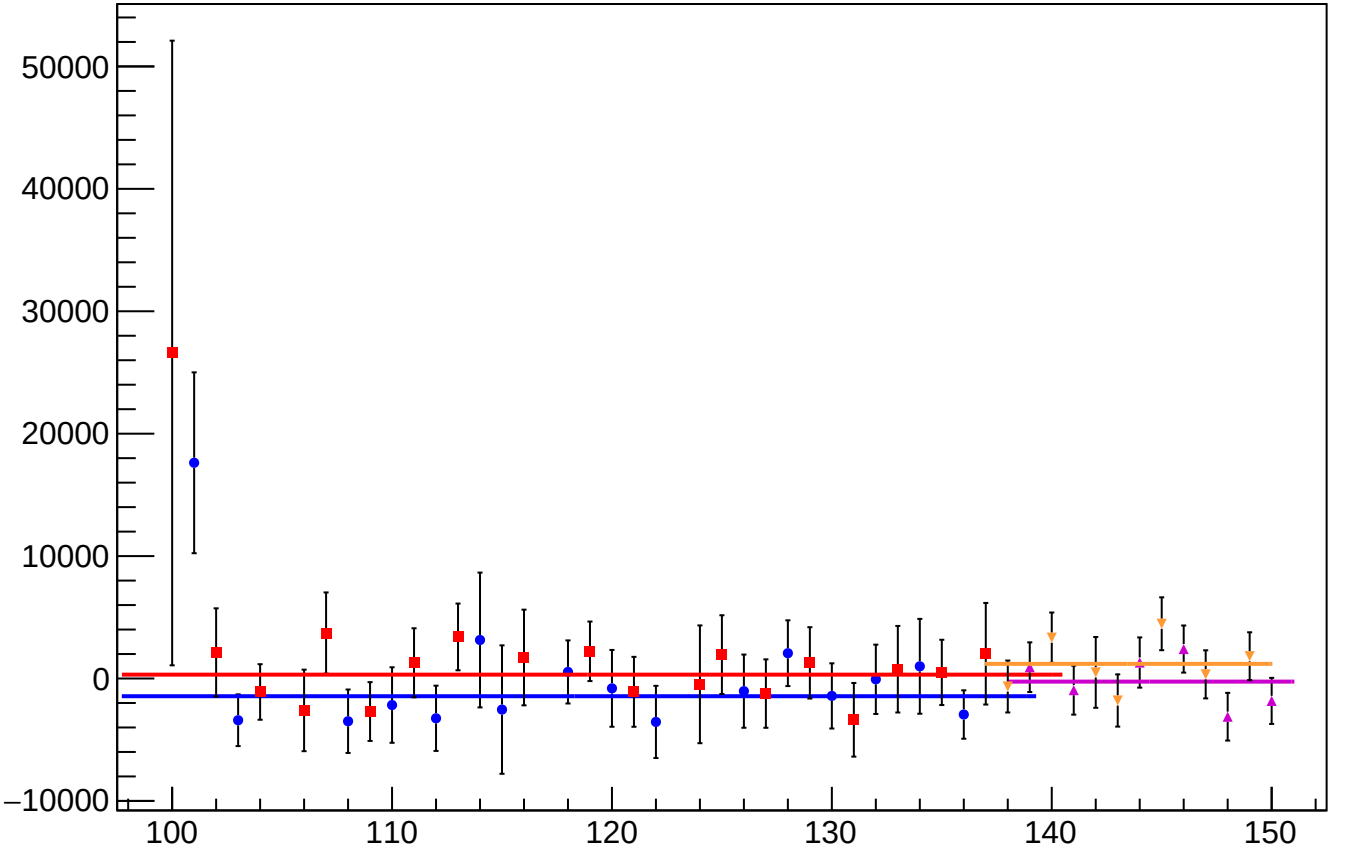
Right: 3514.075+/-0.693 $\chi^2$/NDF: 2987789.5/34

In: 3651.746+/-0.749 $\chi^2$/NDF:1103196.7/21

Out: 3305.074+/-0.689 $\chi^2$/NDF:1905673.0/25

All: 3463.866+/-0.507 $\chi^2$/NDF: 3124967.4/47

# cor_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1196.825+/-807.487 $\chi^2$/NDF:6.5/6

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: -253.221+/-804.288 $\chi^2$/NDF:5.8/5

Left: 468.924+/-569.845 $\chi^2$/NDF: 13.9/12

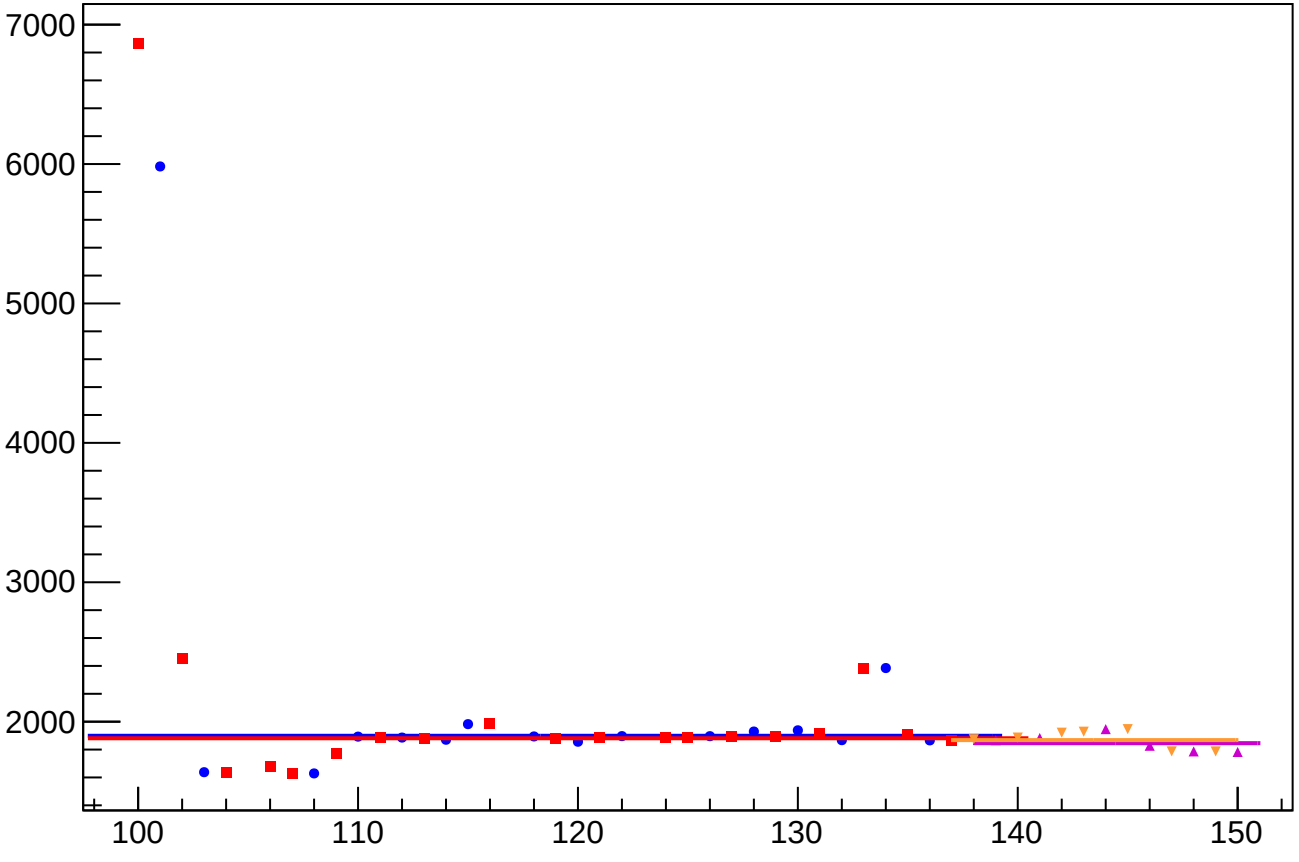
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -913.317+/-537.745 $\chi^2$/NDF:20.5/21

Out: 695.833+/-530.471 $\chi^2$/NDF:17.0/25

All: -97.785+/-377.645 $\chi^2$/NDF: 42.1/47

# cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1867.799+/-0.571 $\chi^2$/NDF:11927.7/6

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1845.975+/-0.569 $\chi^2$/NDF:9994.0/5

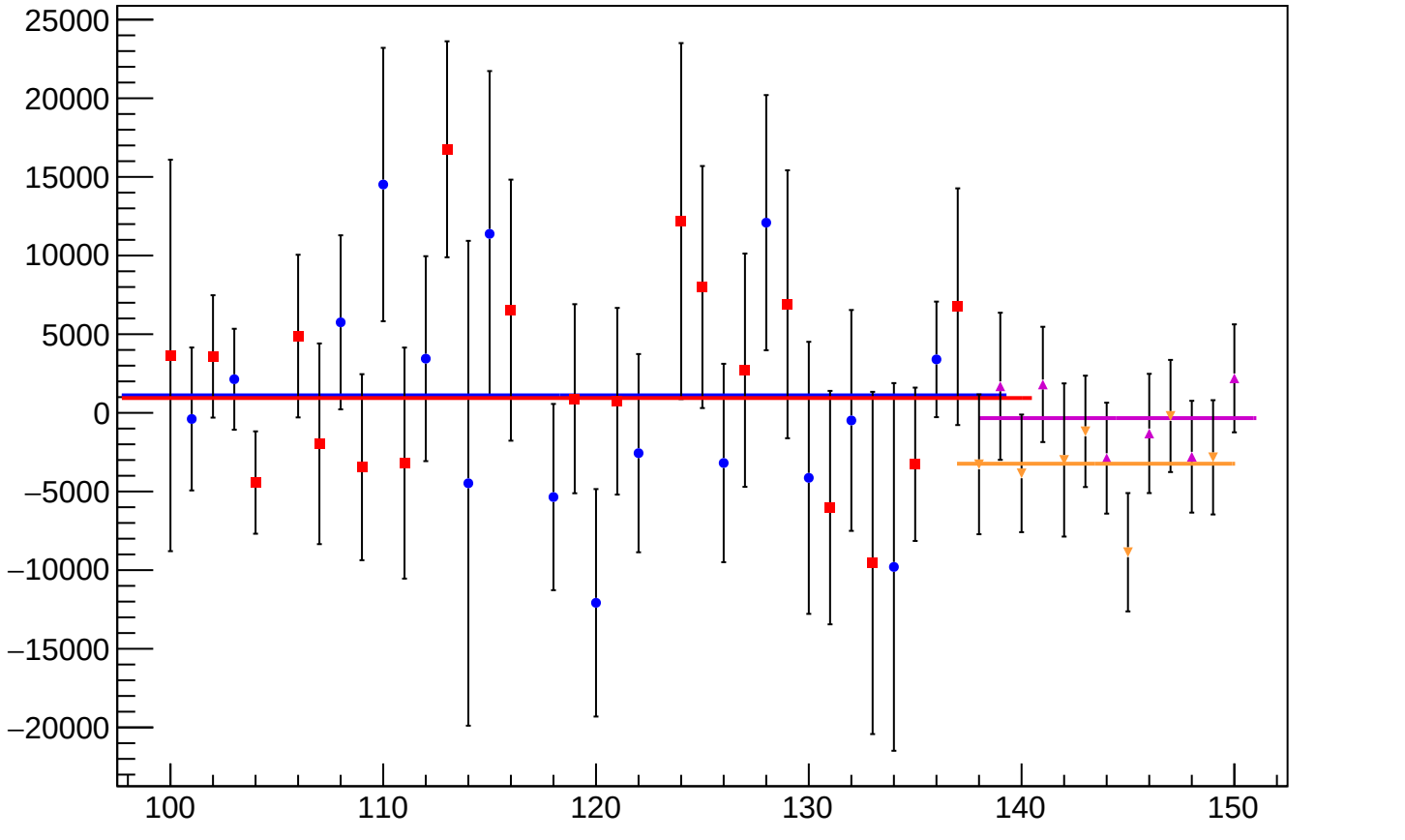
Left: 1856.843+/-0.403 $\chi^2$/NDF: 22655.0/12

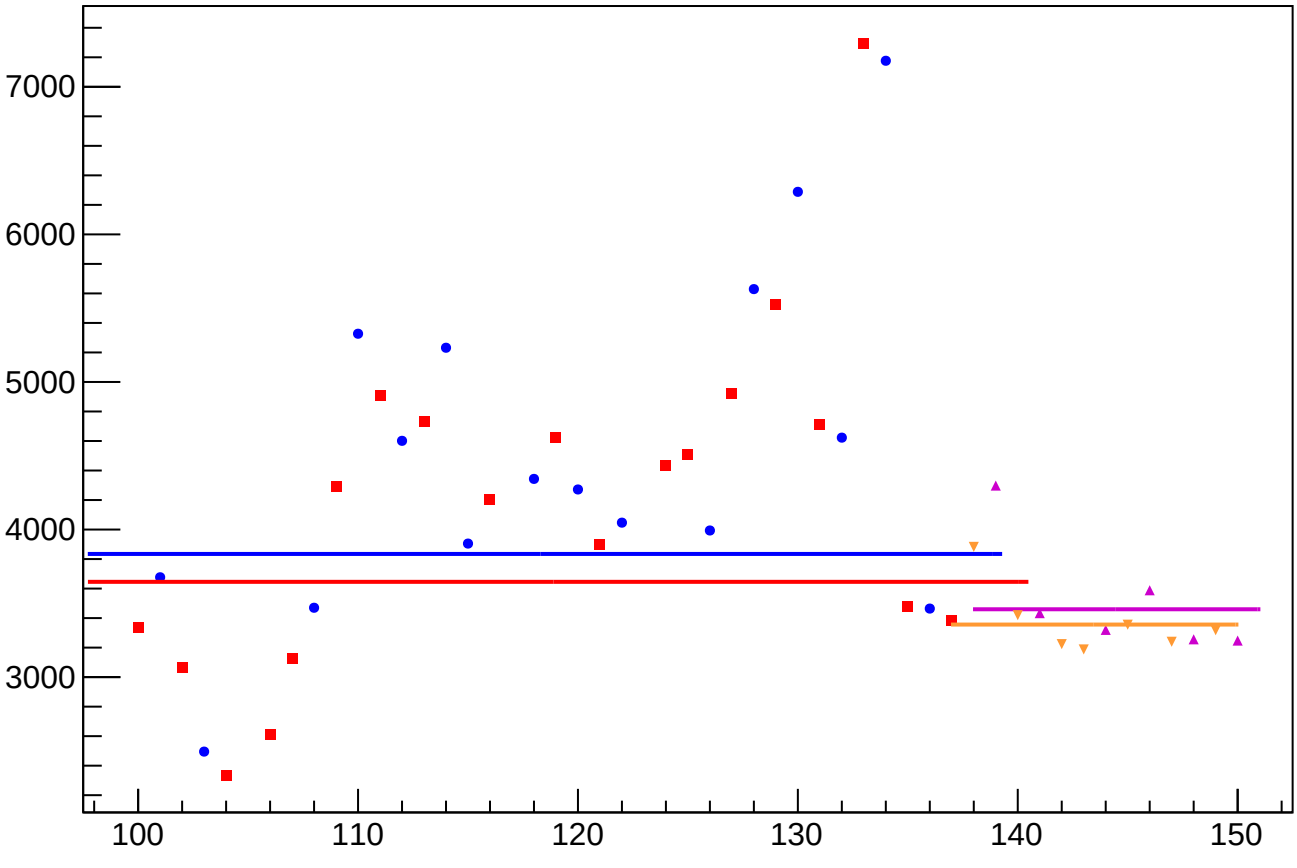
Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1875.200+/-0.380 $\chi^2$/NDF:712283.9/21

Out: 1875.316+/-0.375 $\chi^2$/NDF:228796.6/25

All: 1875.259+/-0.267 $\chi^2$/NDF: 941080.6/47


asym_atr_dd_cor_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 1111.533+/-1479.438 χ²/NDF: 13.4/15
Left Out: -3234.008+/-1459.738 χ²/NDF:3.3/6
Right Out: 940.712+/-1398.993 χ²/NDF: 16.2/18
Left In: -335.584+/-1517.507 χ²/NDF:2.1/5
Left: -1841.014+/-1052.021 χ²/NDF: 7.4/12
Right: 1021.352+/-1016.487 χ²/NDF: 29.6/34
In: 406.354+/-1059.324 χ²/NDF:16.0/21
Out: -1057.979+/-1010.030 χ²/NDF:23.8/25
All: -360.674+/-731.004 χ²/NDF: 40.8/47




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 3356.149+/-1.032 $\chi^2$/NDF:37020.5/6

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 3459.763+/-1.073 $\chi^2$/NDF:84000.5/5

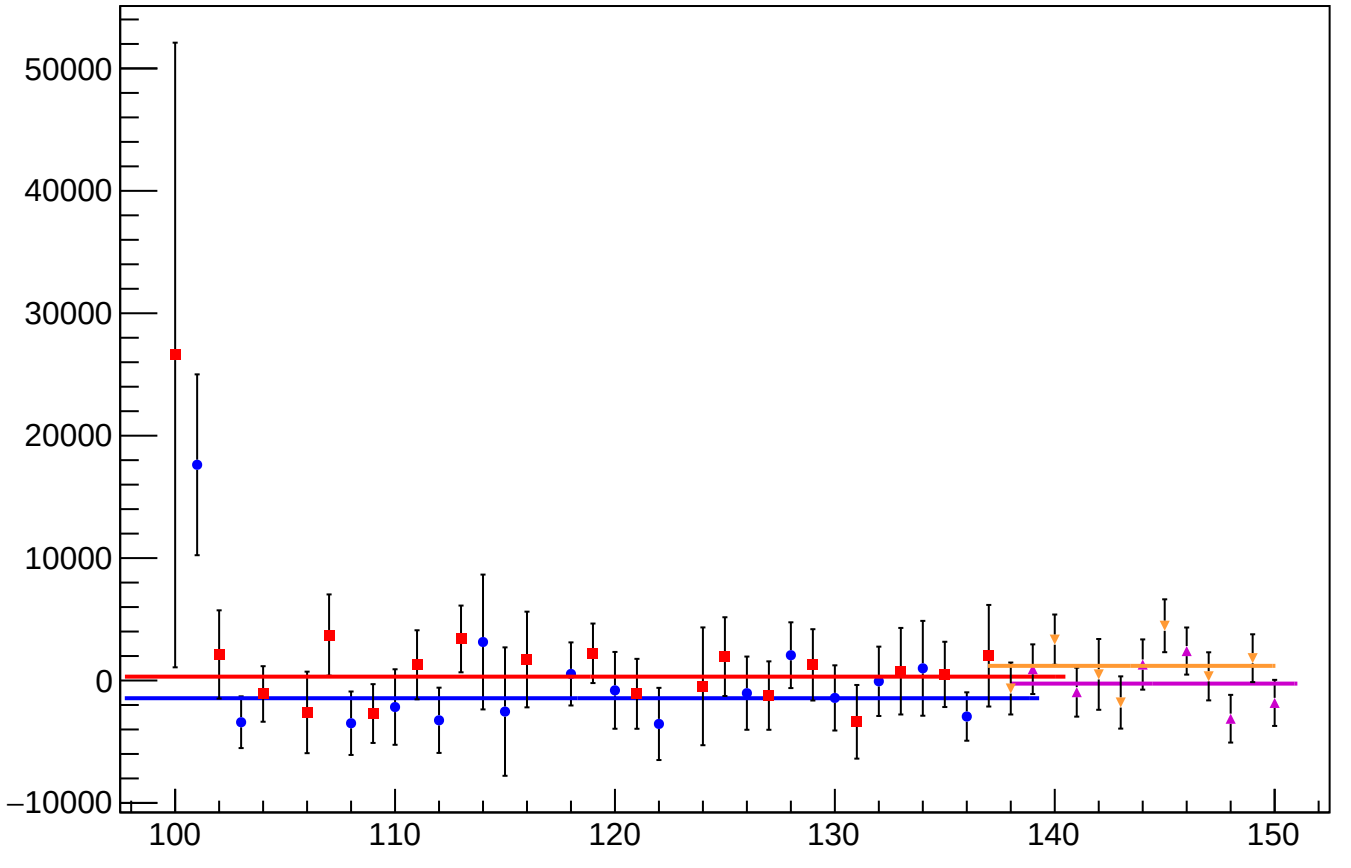
Left: 3405.947+/-0.744 $\chi^2$/NDF: 125864.0/12

Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 3651.988+/-0.749 $\chi^2$/NDF:1102905.6/21

Out: 3507.069+/-0.714 $\chi^2$/NDF:1203016.1/25

All: 3576.079+/-0.517 $\chi^2$/NDF: 2325528.1/47




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1196.825+/-807.487 $\chi^2$/NDF:6.5/6

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: -253.221+/-804.288 $\chi^2$/NDF:5.8/5

Left: 468.924+/-569.845 $\chi^2$/NDF: 13.9/12

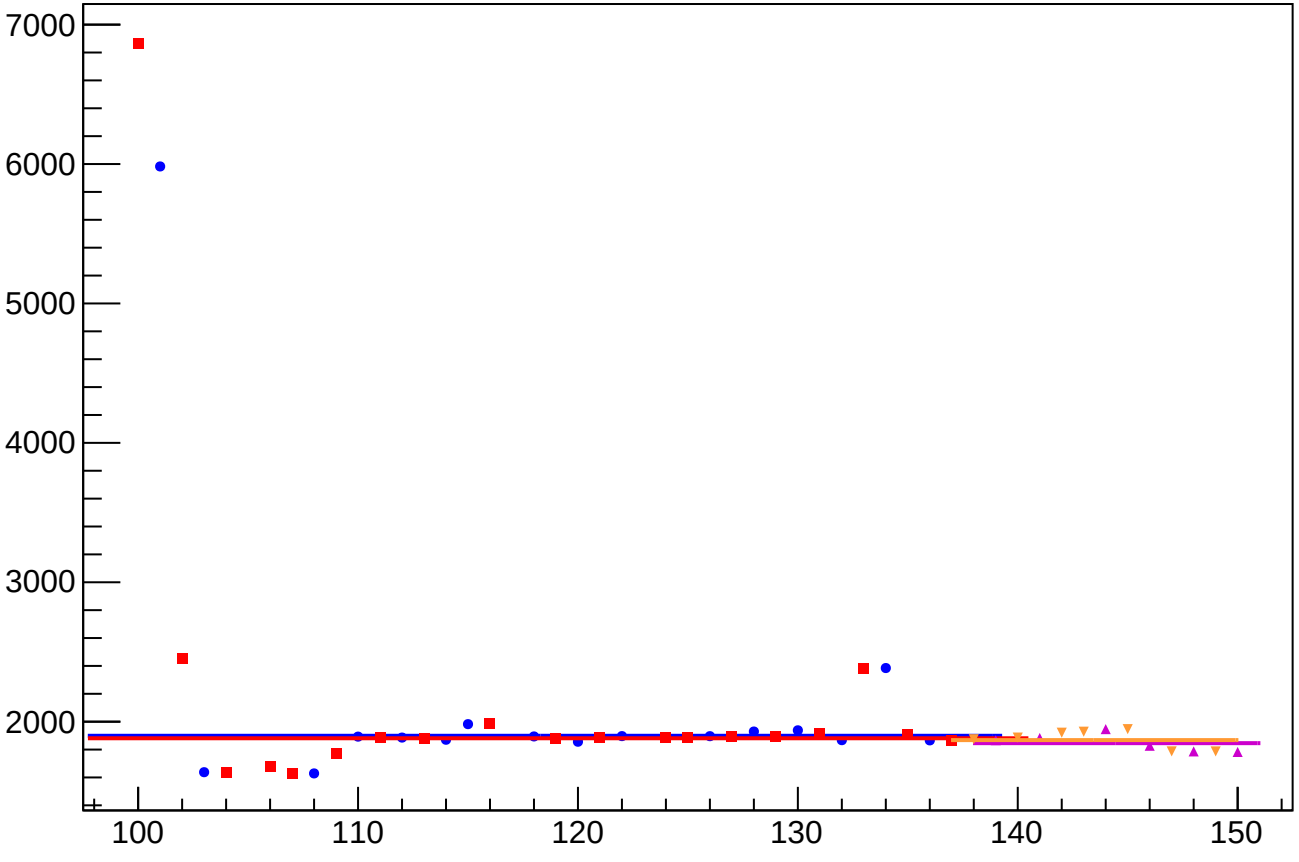
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -913.317+/-537.745 $\chi^2$/NDF:20.5/21

Out: 695.833+/-530.471 $\chi^2$/NDF:17.0/25

All: -97.785+/-377.645 $\chi^2$/NDF: 42.1/47

# eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1867.799+/-0.571 $\chi^2$/NDF:11927.7/6

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1845.975+/-0.569 $\chi^2$/NDF:9994.0/5

Left: 1856.843+/-0.403 $\chi^2$/NDF: 22655.0/12

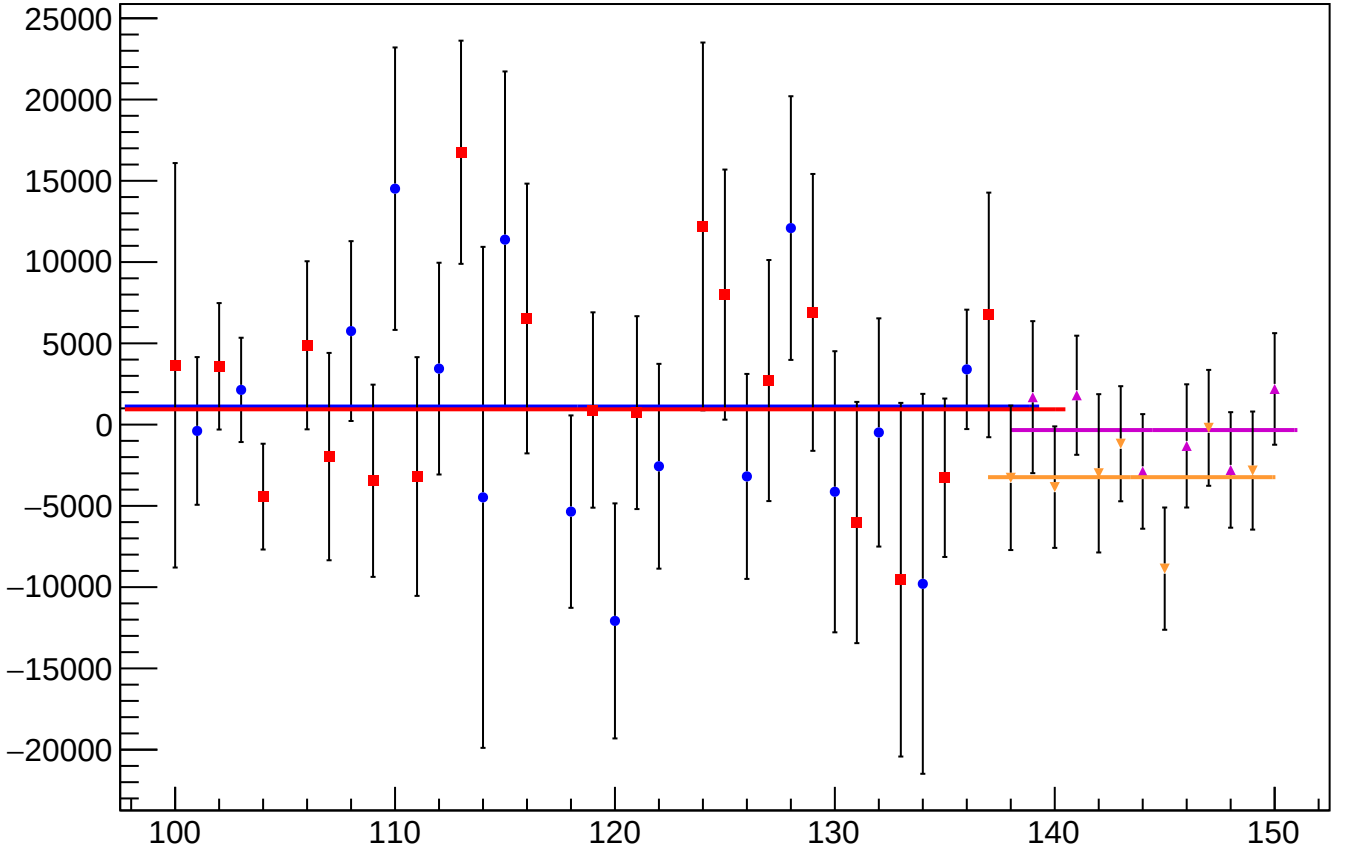
Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1875.200+/-0.380 $\chi^2$/NDF:712283.9/21

Out: 1875.316+/-0.375 $\chi^2$/NDF:228796.6/25

All: 1875.259+/-0.267 $\chi^2$/NDF: 941080.6/47

asym_atr_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1111.533+/-1479.438 $\chi^2$/NDF: 13.4/15

Left Out: -3234.008+/-1459.738 $\chi^2$/NDF:3.3/6

Right Out: 940.712+/-1398.993 $\chi^2$/NDF: 16.2/18

Left In: -335.584+/-1517.507 $\chi^2$/NDF:2.1/5

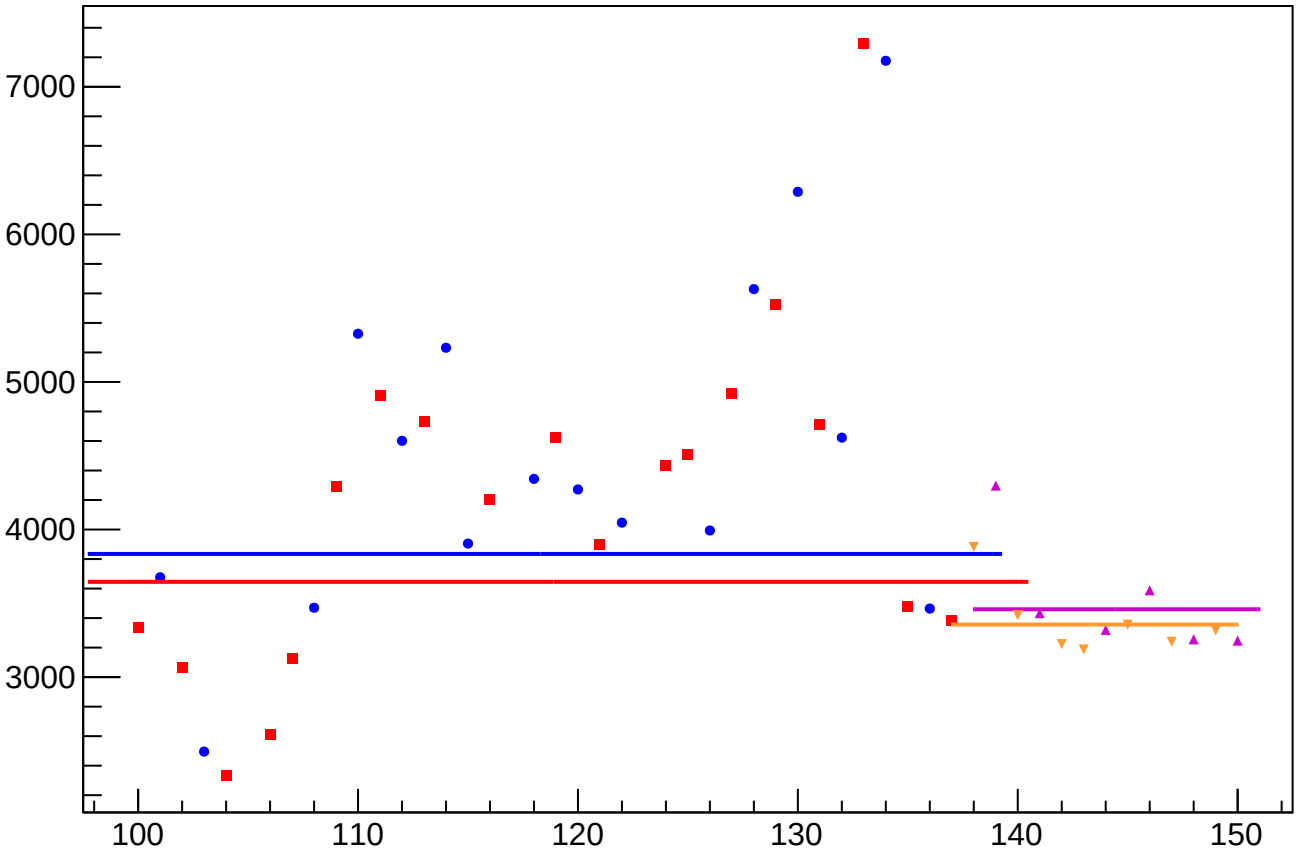
Left: -1841.014+/-1052.021 $\chi^2$/NDF: 7.4/12

Right: 1021.352+/-1016.487 $\chi^2$/NDF: 29.6/34

In: 406.354+/-1059.324 $\chi^2$/NDF:16.0/21

Out: -1057.979+/-1010.030 $\chi^2$/NDF:23.8/25

All: -360.674+/-731.004 $\chi^2$/NDF: 40.8/47




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 3356.149+/-1.032 $\chi^2$/NDF:37020.5/6

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 3459.763+/-1.073 $\chi^2$/NDF:84000.5/5

Left: 3405.947+/-0.744 $\chi^2$/NDF: 125864.0/12

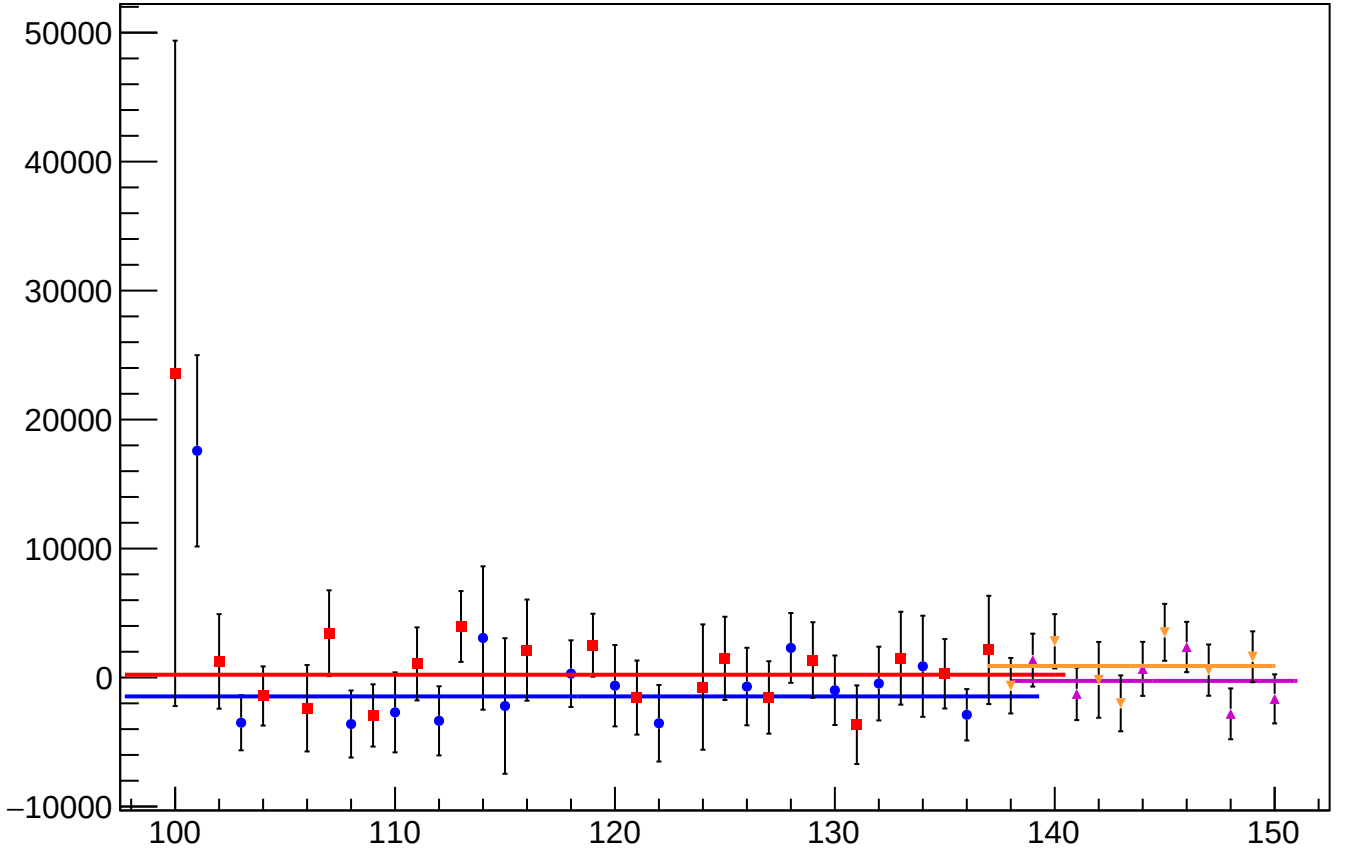
Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 3651.988+/-0.749 $\chi^2$/NDF:1102905.6/21

Out: 3507.069+/-0.714 $\chi^2$/NDF:1203016.1/25

All: 3576.079+/-0.517 $\chi^2$/NDF: 2325528.1/47

# dit_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1462.640+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 896.296+/-820.188 $\chi^2$/NDF:4.8/6

Right Out: 219.726+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: -260.101+/-815.602 $\chi^2$/NDF:5.1/5

Left: 314.855+/-578.332 $\chi^2$/NDF: 10.9/12

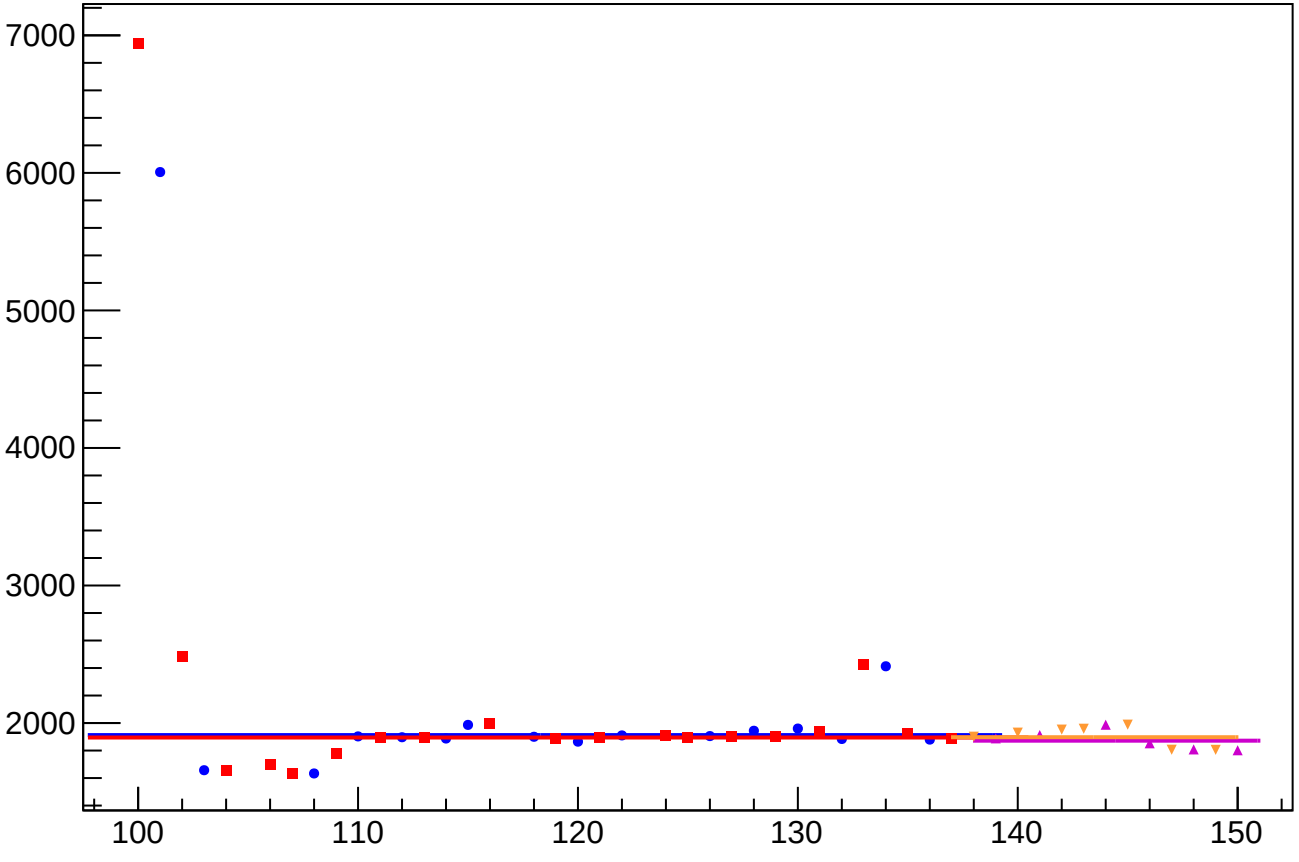
Right: -598.725+/-507.962 $\chi^2$/NDF: 27.1/34

In: -929.174+/-543.228 $\chi^2$/NDF:19.9/21

Out: 509.007+/-536.311 $\chi^2$/NDF:16.0/25

All: -200.869+/-381.651 $\chi^2$/NDF: 39.4/47

# dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.3/15

Left Out: 1896.861+/-0.580 $\chi^2$/NDF:14784.3/6

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1871.735+/-0.577 $\chi^2$/NDF:12022.3/5

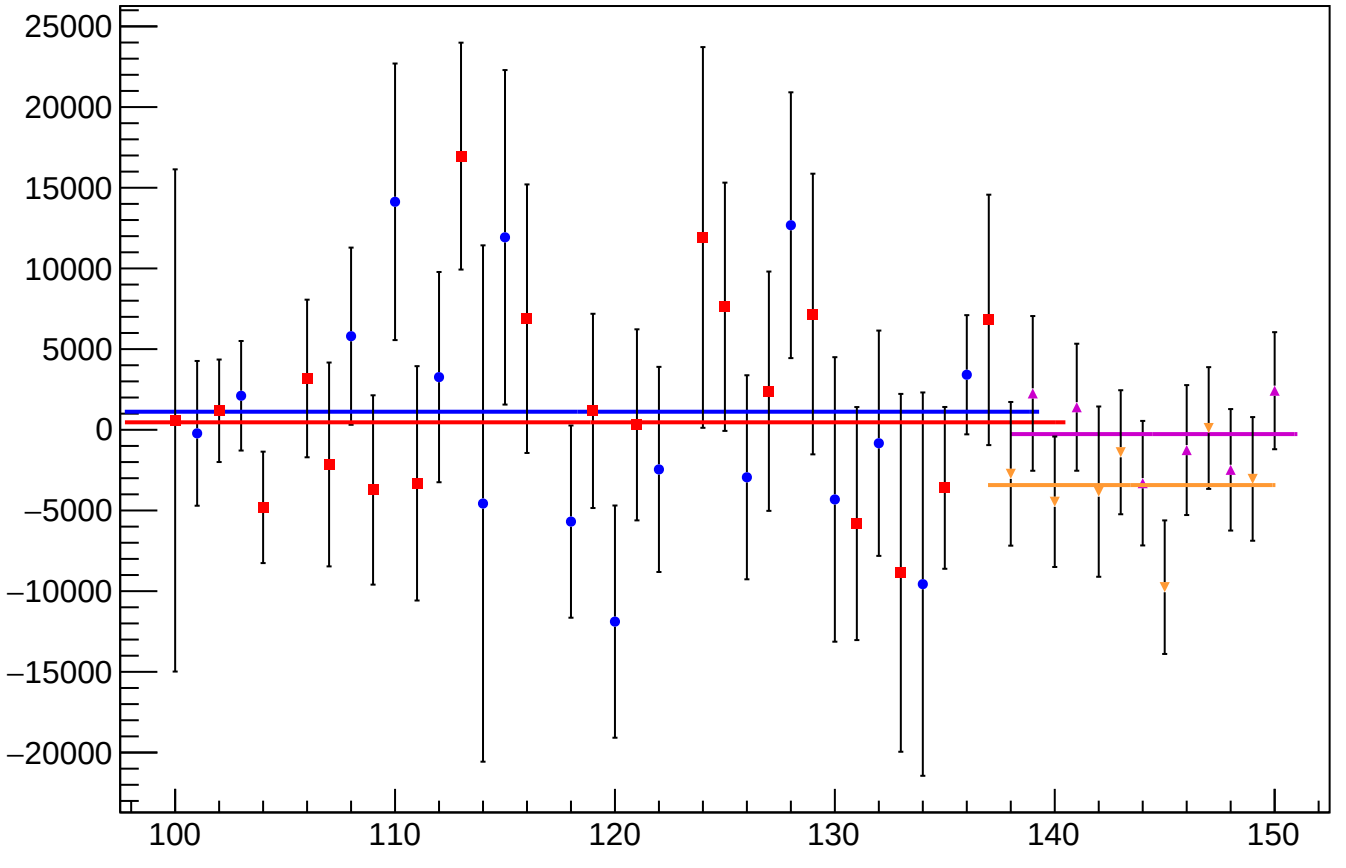
Left: 1884.228+/-0.409 $\chi^2$/NDF: 27750.3/12

Right: 1903.324+/-0.359 $\chi^2$/NDF: 916603.1/34

In: 1894.348+/-0.384 $\chi^2$/NDF:711005.8/21

Out: 1895.660+/-0.379 $\chi^2$/NDF:234573.2/25

All: 1895.013+/-0.270 $\chi^2$/NDF: 945585.0/47




Right In: 1120.173+/-1497.671 $\chi^2$/NDF: 13.5/15

Left Out: -3425.488+/-1557.934 $\chi^2$/NDF:3.6/6

Right Out: 464.368+/-1370.818 $\chi^2$/NDF: 15.0/18

Left In: -266.046+/-1614.847 $\chi^2$/NDF:2.0/5

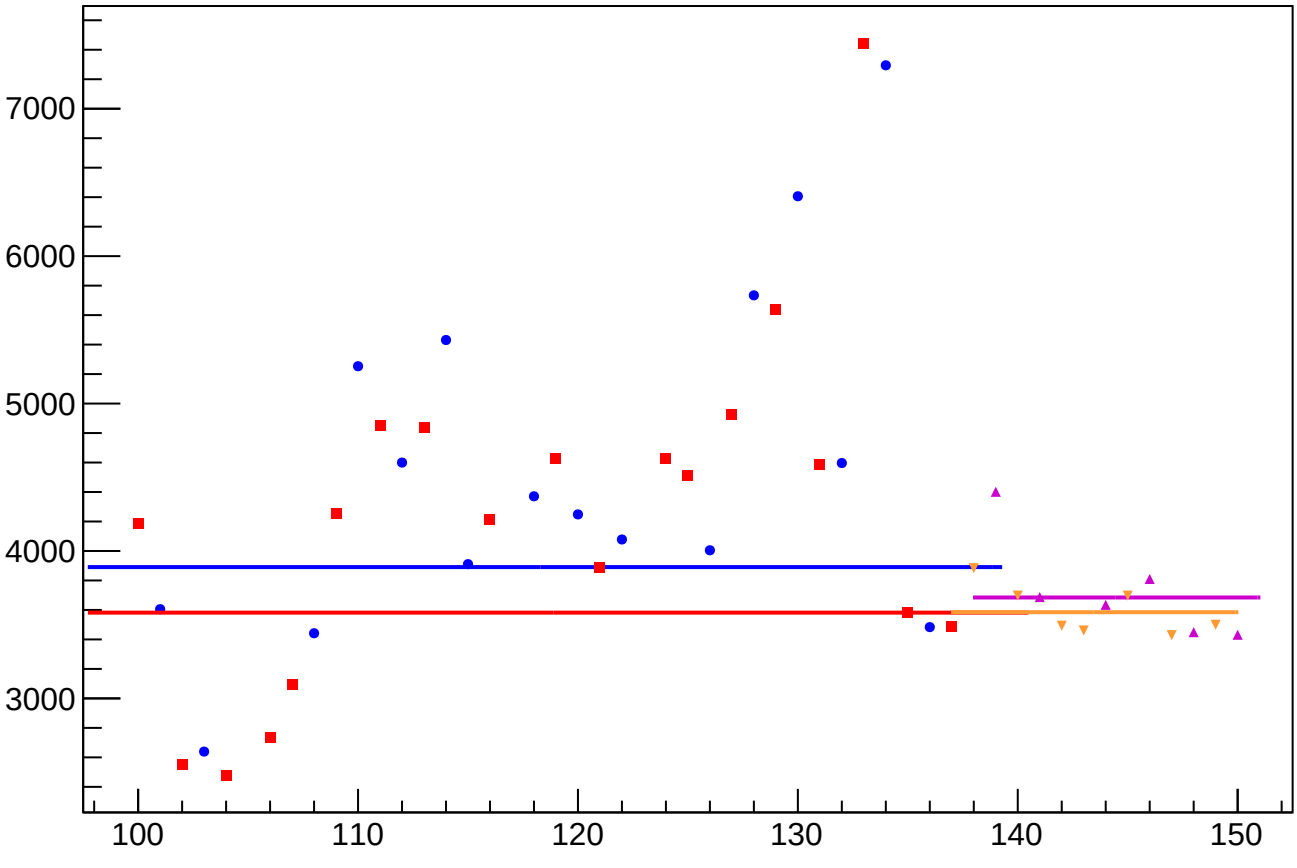
Left: -1902.423+/-1121.206 $\chi^2$/NDF: 7.6/12

Right: 763.326+/-1011.192 $\chi^2$/NDF: 28.6/34

In: 479.176+/-1098.104 $\chi^2$/NDF:15.9/21

Out: -1233.051+/-1029.145 $\chi^2$/NDF:22.1/25

All: -432.384+/-750.911 $\chi^2$/NDF: 39.3/47




Right In: 3890.708+/-1.059 $\chi^2$/NDF: 878418.2/15

Left Out: 3584.853+/-1.102 $\chi^2$/NDF:19161.5/6

Right Out: 3581.780+/-0.969 $\chi^2$/NDF: 1221855.2/18

Left In: 3684.584+/-1.142 $\chi^2$/NDF:64551.2/5

Left: 3632.930+/-0.793 $\chi^2$/NDF: 87663.6/12

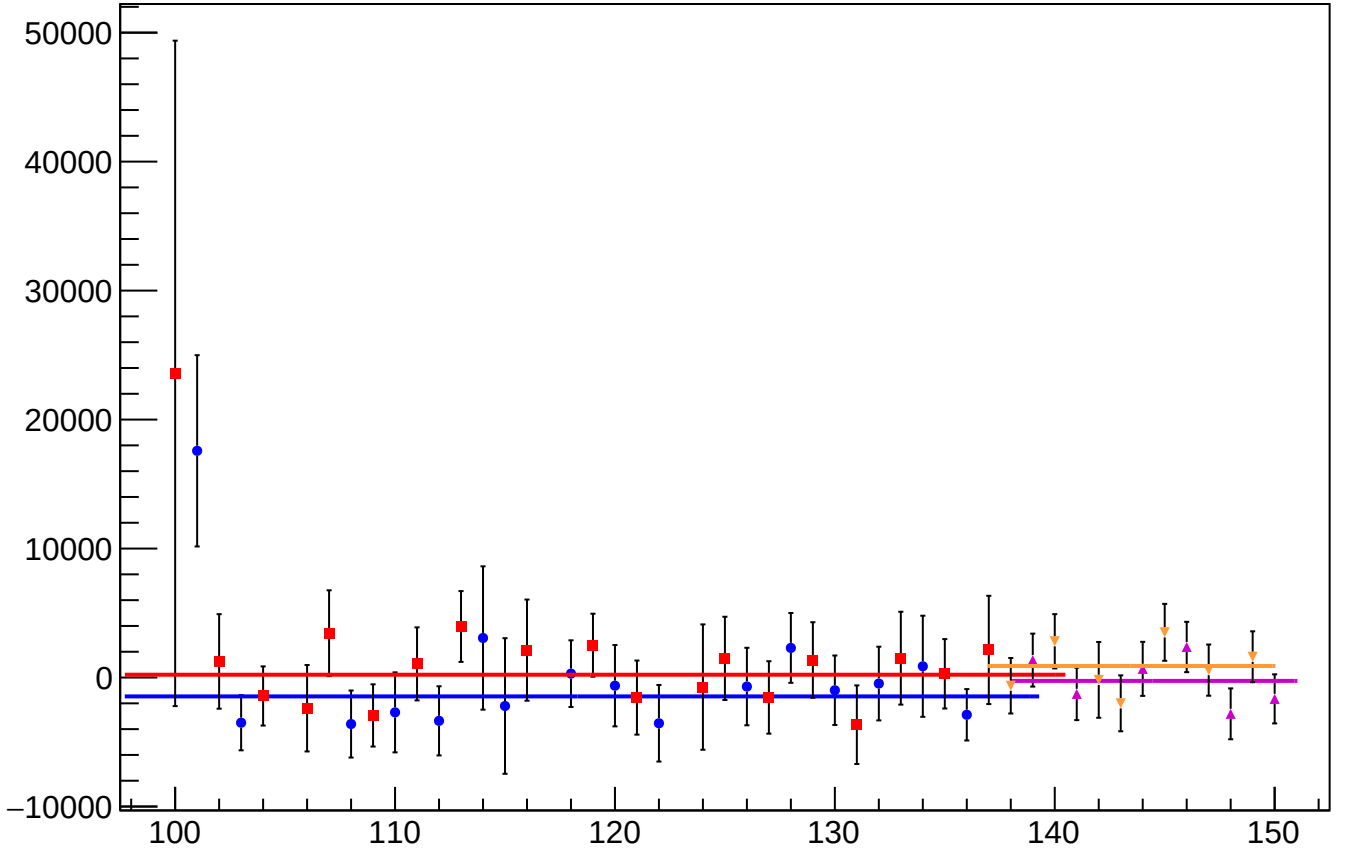
Right: 3722.609+/-0.715 $\chi^2$/NDF: 2146577.5/34

In: 3795.395+/-0.776 $\chi^2$/NDF:960487.1/21

Out: 3583.121+/-0.728 $\chi^2$/NDF:1241021.1/25

All: 3682.384+/-0.531 $\chi^2$/NDF: 2241297.0/47

# eigen_dit_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1462.646+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 896.294+/-820.188 $\chi^2$/NDF:4.8/6

Right Out: 219.720+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: -260.098+/-815.602 $\chi^2$/NDF:5.1/5

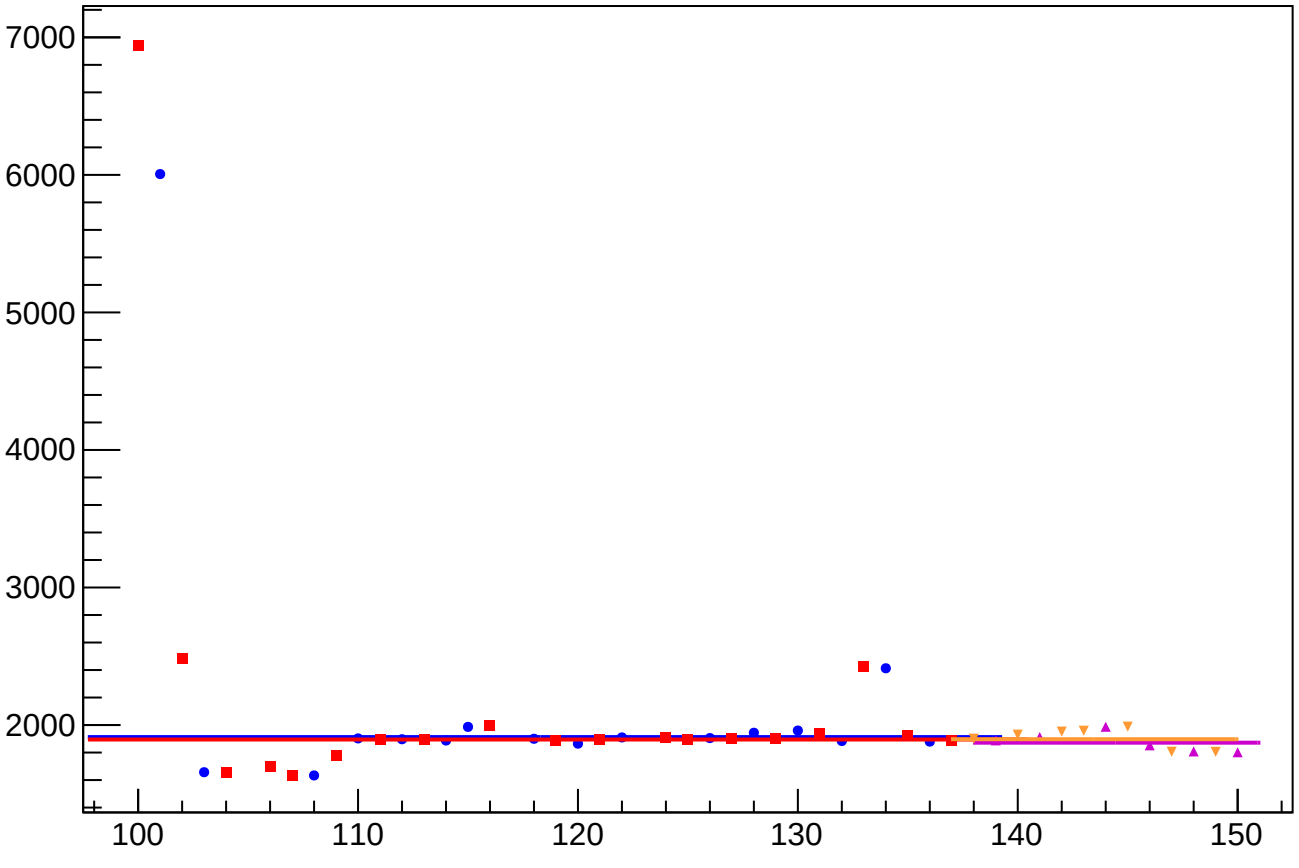
Left: 314.856+/-578.332 $\chi^2$/NDF: 10.9/12

Right: -598.730+/-507.962 $\chi^2$/NDF: 27.1/34

In: -929.176+/-543.228 $\chi^2$/NDF:19.9/21

Out: 509.003+/-536.311 $\chi^2$/NDF:16.0/25

All: -200.872+/-381.651 $\chi^2$/NDF: 39.4/47




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.1/15

Left Out: 1896.862+/-0.580 $\chi^2$/NDF:14784.3/6

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1871.736+/-0.577 $\chi^2$/NDF:12022.2/5

Left: 1884.228+/-0.409 $\chi^2$/NDF: 27750.2/12

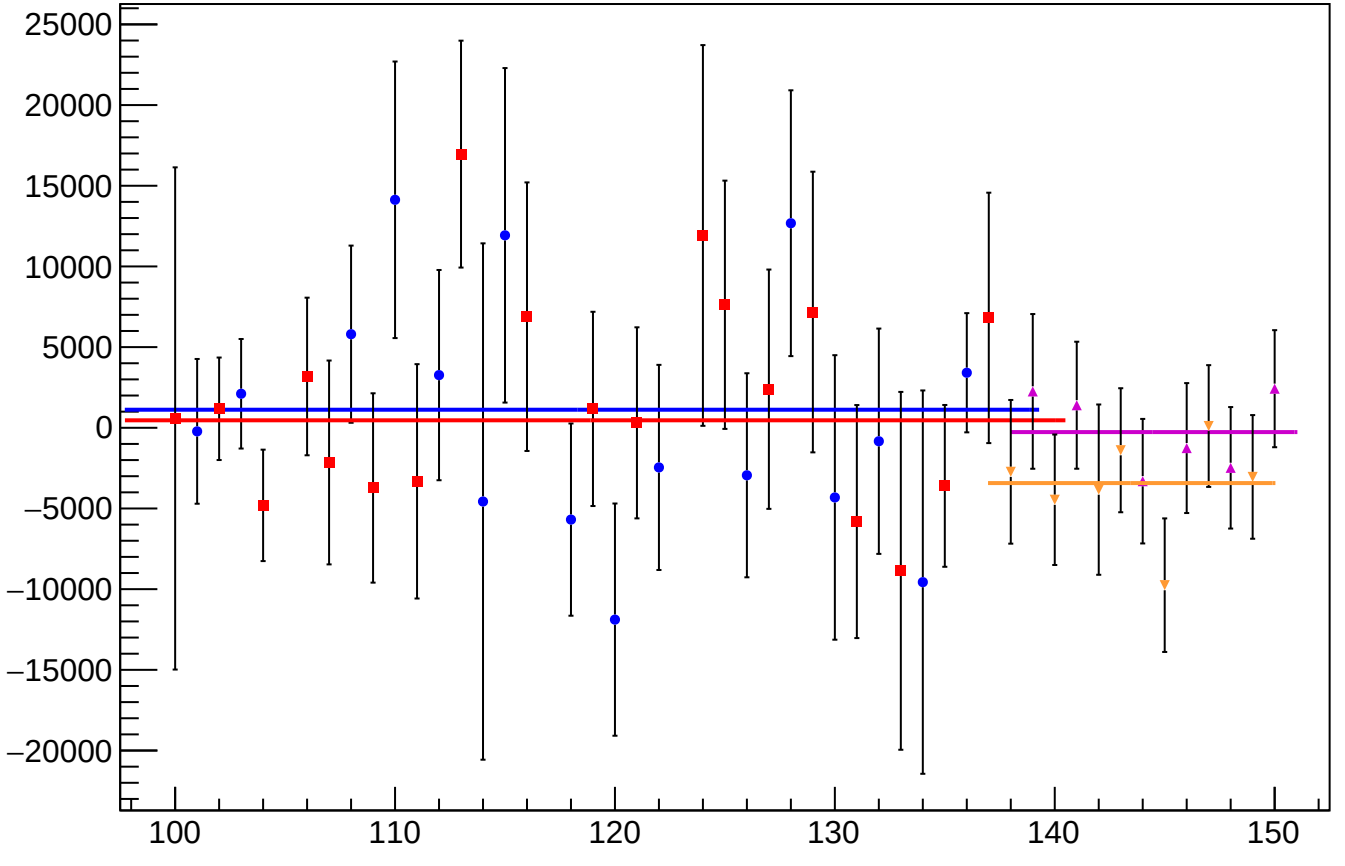
Right: 1903.324+/-0.359 $\chi^2$/NDF: 916602.9/34

In: 1894.349+/-0.384 $\chi^2$/NDF:711005.5/21

Out: 1895.660+/-0.379 $\chi^2$/NDF:234573.3/25

All: 1895.013+/-0.270 $\chi^2$/NDF: 945584.7/47

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1120.159+/-1497.669 $\chi^2$/NDF: 13.5/15

Left Out: -3425.492+/-1557.936 $\chi^2$/NDF:3.6/6

Right Out: 464.367+/-1370.817 $\chi^2$/NDF: 15.0/18

Left In: -266.043+/-1614.849 $\chi^2$/NDF:2.0/5

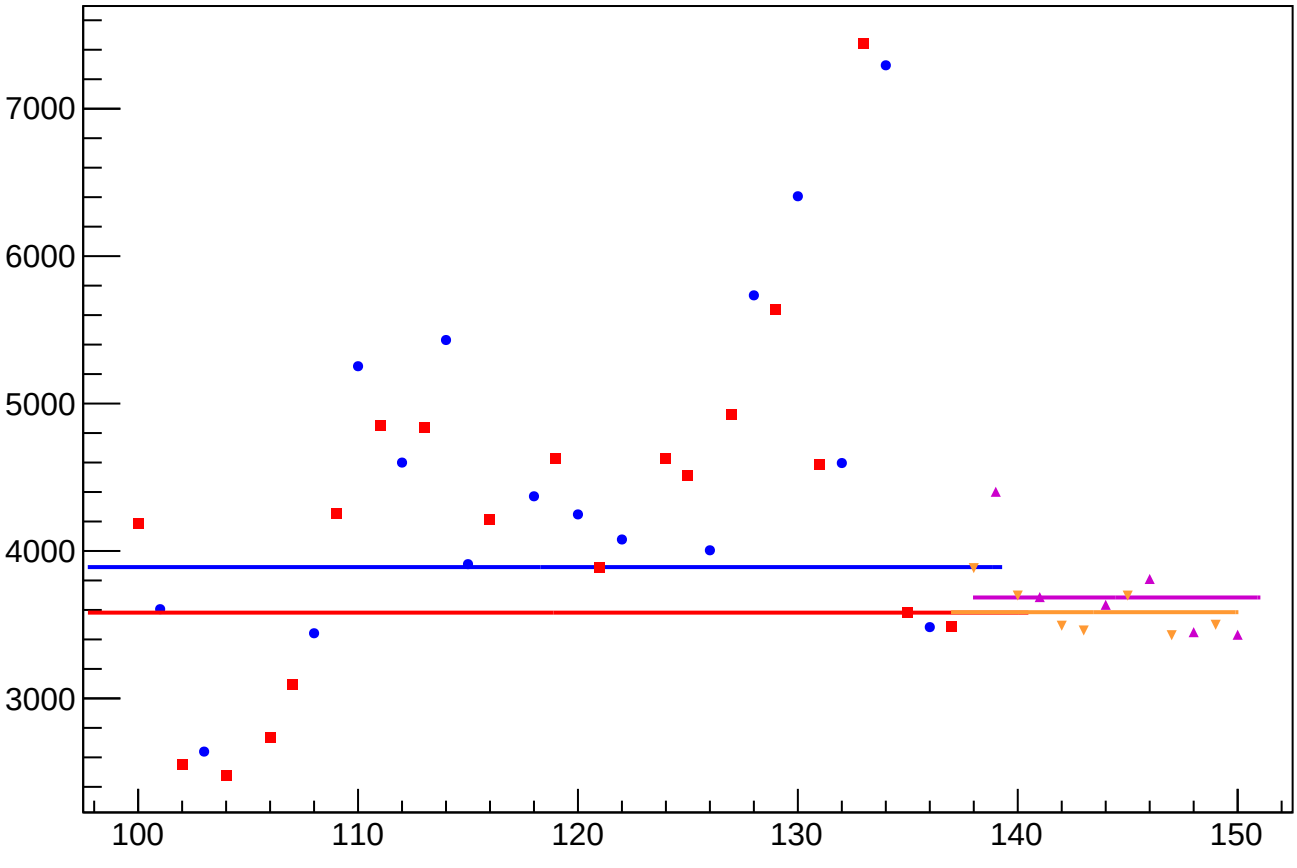
Left: -1902.423+/-1121.207 $\chi^2$/NDF: 7.6/12

Right: 763.319+/-1011.191 $\chi^2$/NDF: 28.6/34

In: 479.172+/-1098.104 $\chi^2$/NDF:15.9/21

Out: -1233.048+/-1029.145 $\chi^2$/NDF:22.1/25

All: -432.384+/-750.911 $\chi^2$/NDF: 39.3/47




Right In: 3890.705+/-1.059 $\chi^2$/NDF: 878409.2/15

Left Out: 3584.858+/-1.102 $\chi^2$/NDF:19161.4/6

Right Out: 3581.777+/-0.969 $\chi^2$/NDF: 1221846.6/18

Left In: 3684.589+/-1.142 $\chi^2$/NDF:64551.6/5

Left: 3632.935+/-0.793 $\chi^2$/NDF: 87663.9/12

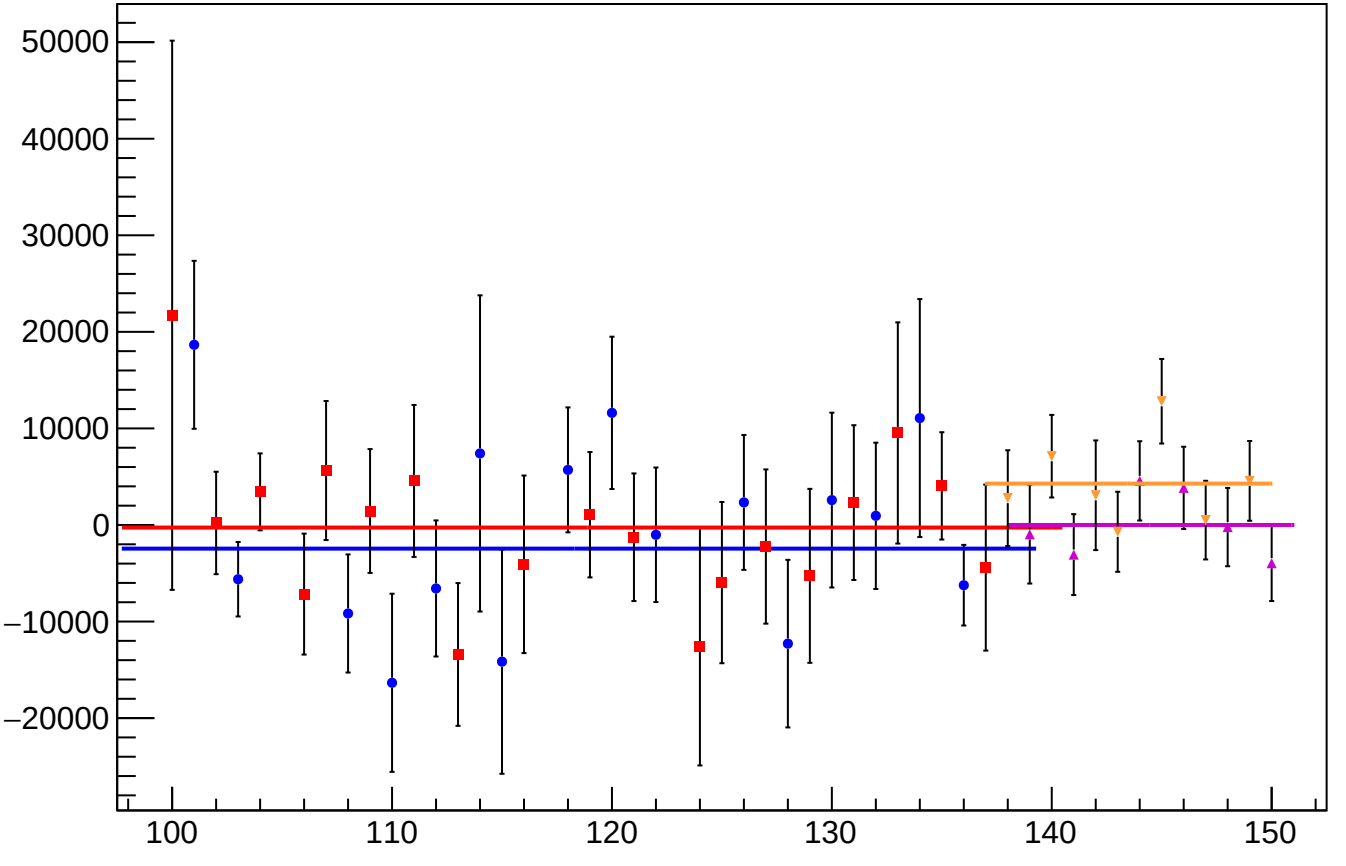
Right: 3722.606+/-0.715 $\chi^2$/NDF: 2146560.1/34

In: 3795.396+/-0.776 $\chi^2$/NDF:960477.3/21

Out: 3583.121+/-0.728 $\chi^2$/NDF:1241012.4/25

All: 3682.385+/-0.531 $\chi^2$/NDF: 2241278.7/47

# asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -2448.262+/-1719.694 $\chi^2$/NDF: 20.9/15

Left Out: 4283.802+/-1676.881 $\chi^2$/NDF:6.7/6

Right Out: -265.886+/-1622.574 $\chi^2$/NDF: 10.7/18

Left In: -0.023+/-1725.635 $\chi^2$/NDF:3.6/5

Left: 2203.259+/-1202.600 $\chi^2$/NDF: 13.5/12

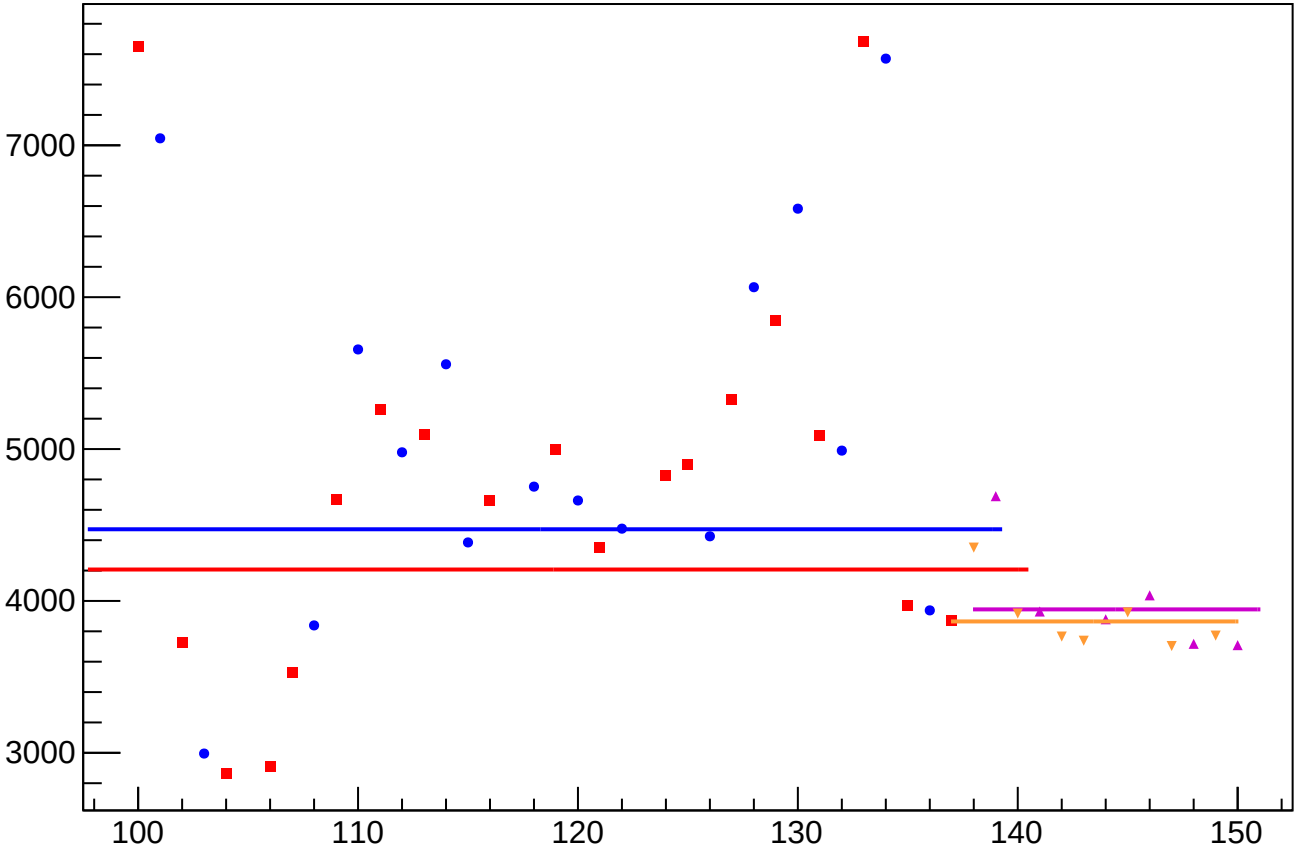
Right: -1293.712+/-1180.174 $\chi^2$/NDF: 32.4/34

In: -1228.364+/-1218.102 $\chi^2$/NDF:25.5/21

Out: 1934.094+/-1166.060 $\chi^2$/NDF:21.2/25

All: 421.864+/-842.326 $\chi^2$/NDF: 50.2/47

# asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 4471.904+/-1.216 $\chi^2$/NDF: 891678.4/15

Left Out: 3865.056+/-1.186 $\chi^2$/NDF:26541.8/6

Right Out: 4206.907+/-1.138 $\chi^2$/NDF: 846525.2/18

Left In: 3944.406+/-1.220 $\chi^2$/NDF:57630.4/5

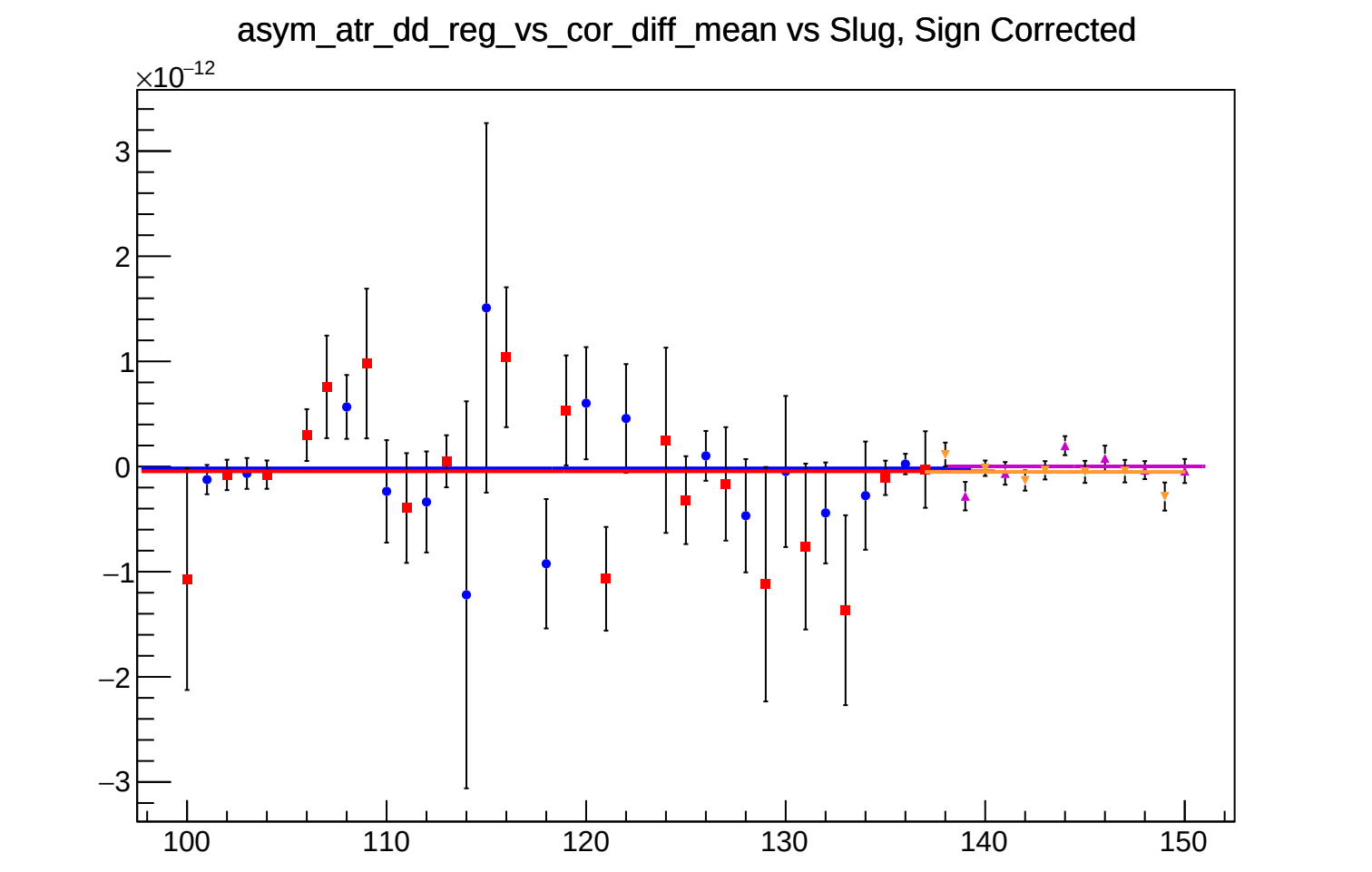
Left: 3903.594+/-0.850 $\chi^2$/NDF: 86347.2/12

Right: 4330.631+/-0.831 $\chi^2$/NDF: 1763521.7/34

In: 4209.064+/-0.861 $\chi^2$/NDF:1043073.6/21

Out: 4043.005+/-0.821 $\chi^2$/NDF:916334.0/25

All: 4122.060+/-0.594 $\chi^2$/NDF: 1978882.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:10.2/5

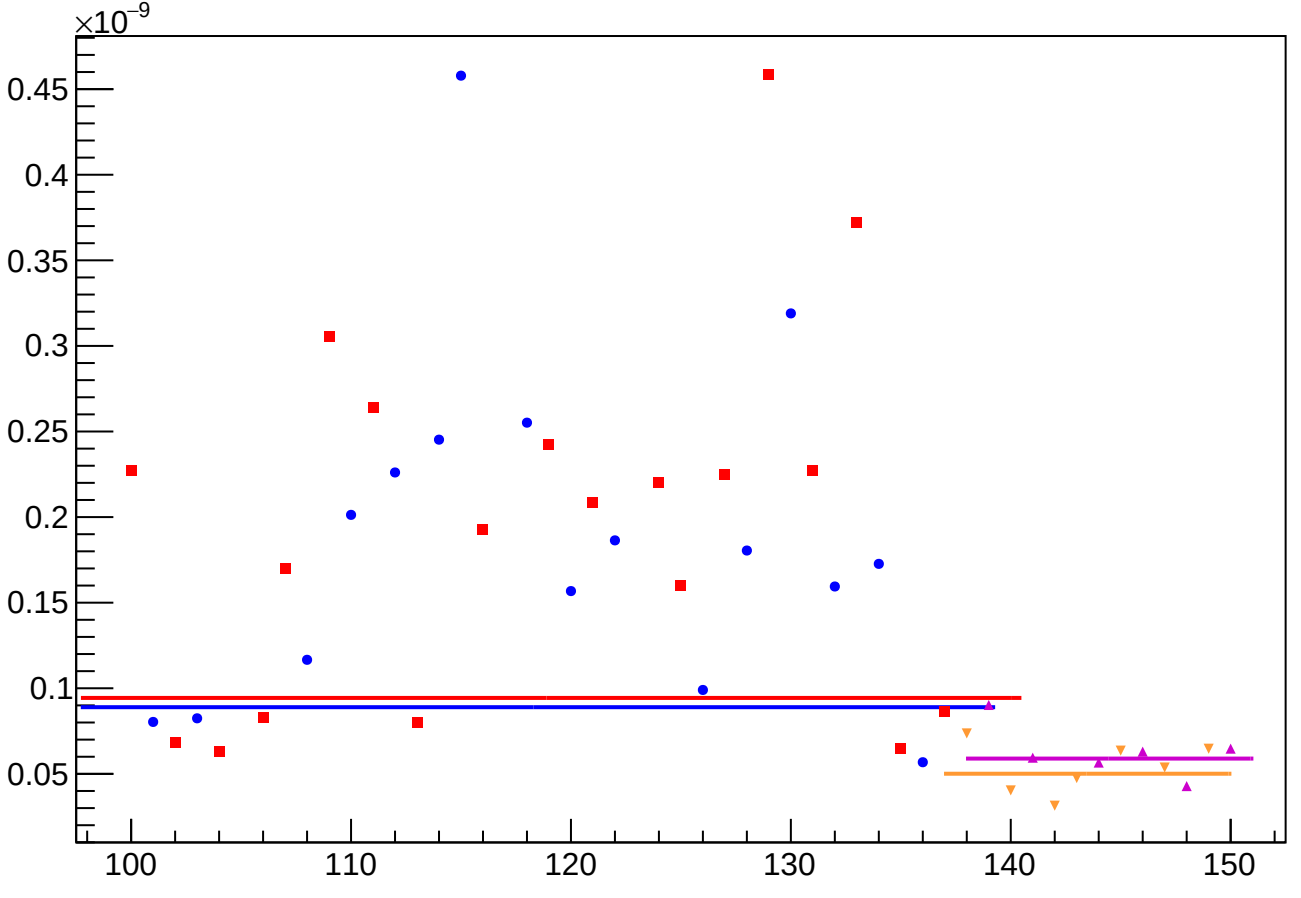
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:27.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 51.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1230222.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:256622.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1695078.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:186241.4/5

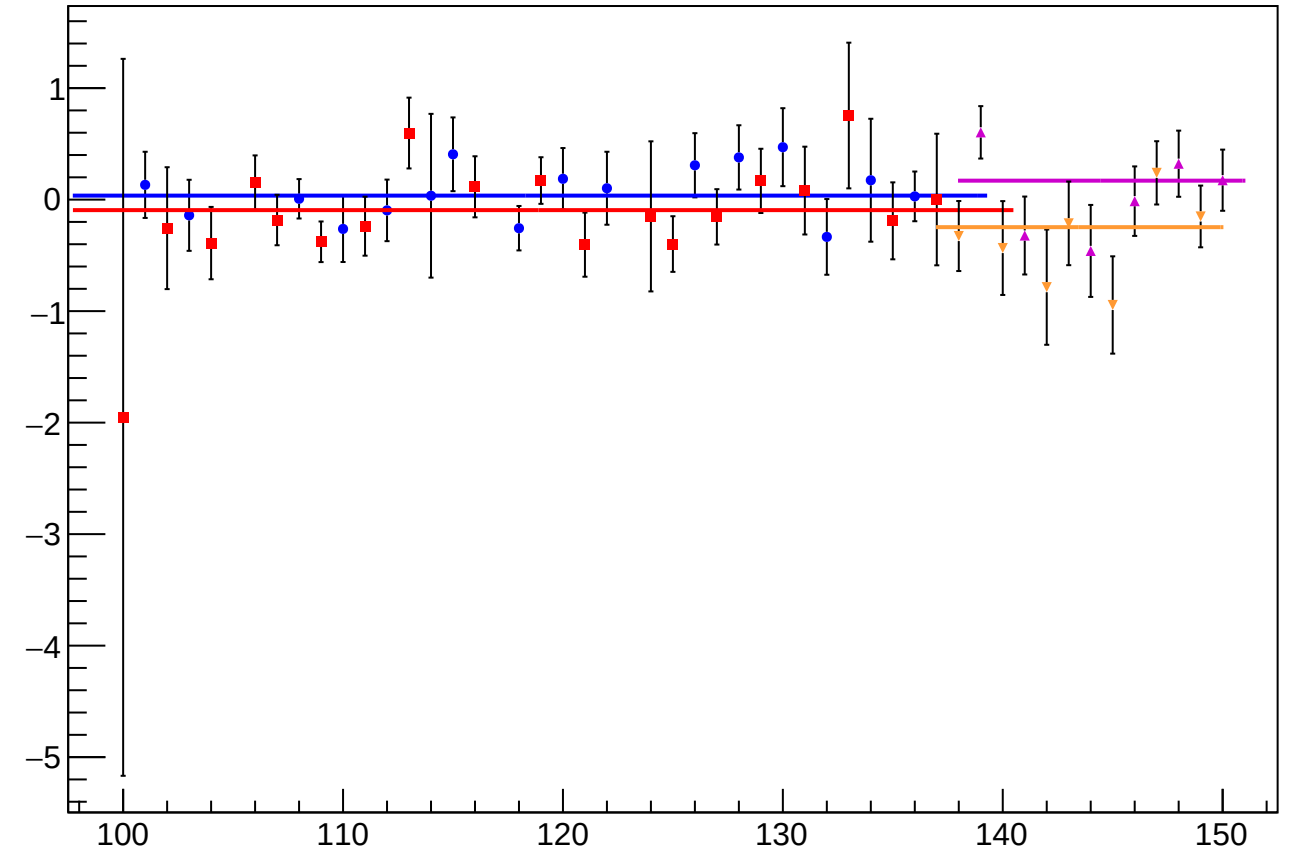
Left: 0.000+/-0.000 $\chi^2$/NDF: 491907.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 2932262.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:1737627.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2605907.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4408901.5/47




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.247+/-0.132 $\chi^2$/NDF:7.0/6

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.170+/-0.122 $\chi^2$/NDF:8.3/5

Left: -0.022+/-0.090 $\chi^2$/NDF: 20.7/12

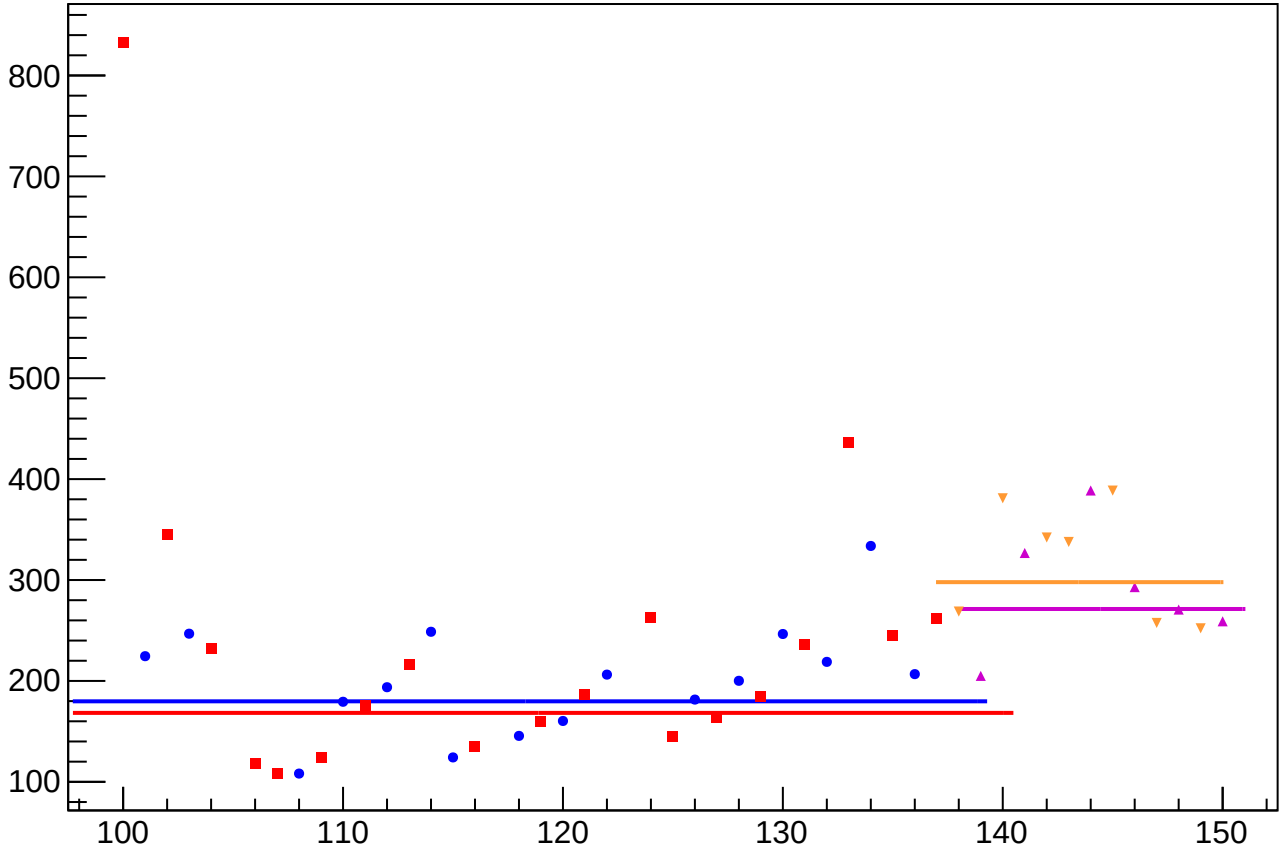
Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.070+/-0.061 $\chi^2$/NDF:19.8/21

Out: -0.126+/-0.060 $\chi^2$/NDF:25.7/25

All: -0.030+/-0.043 $\chi^2$/NDF: 50.6/47

# asym_atr_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 297.899+/-0.093 $\chi^2$/NDF:314073.2/6

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 271.296+/-0.086 $\chi^2$/NDF:385230.6/5

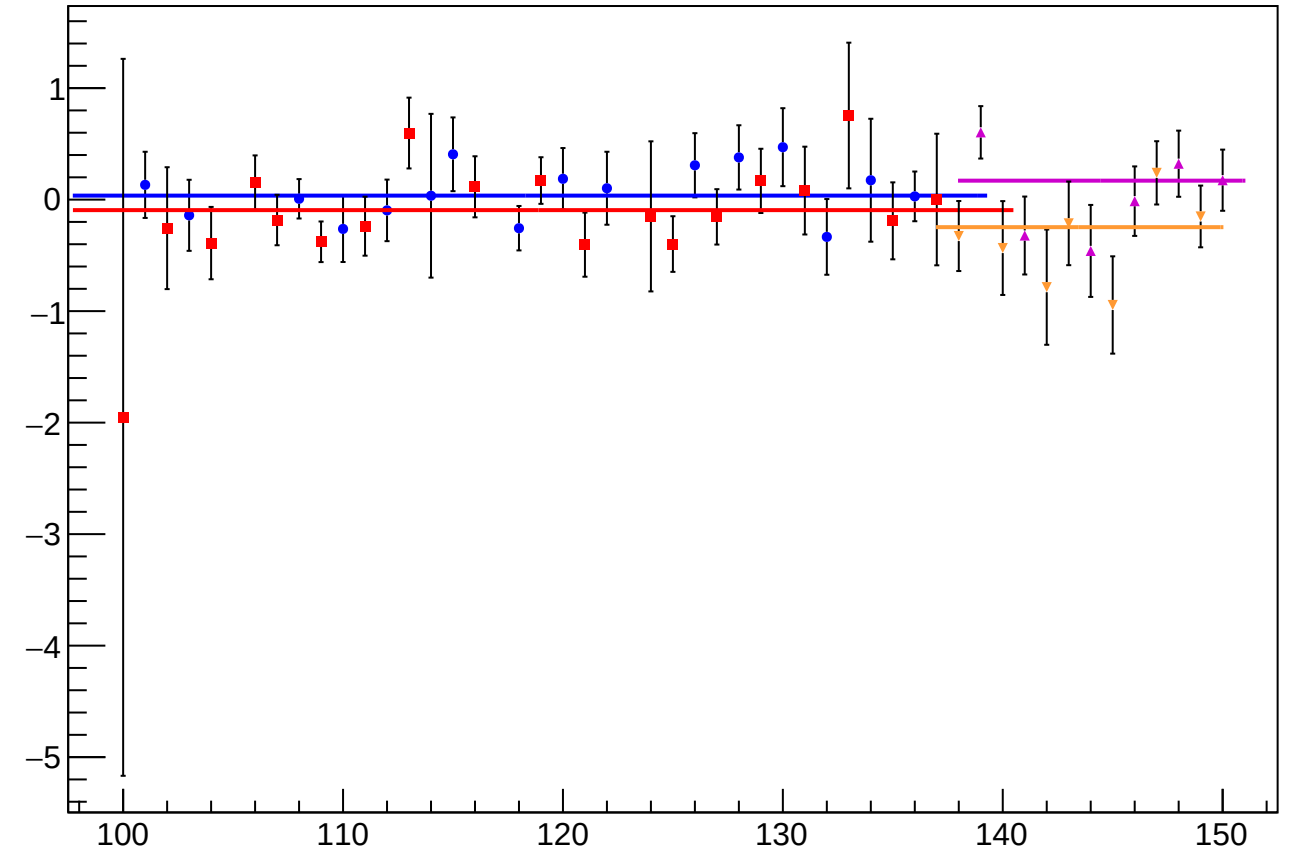
Left: 283.555+/-0.063 $\chi^2$/NDF: 743077.1/12

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 202.722+/-0.043 $\chi^2$/NDF:2145996.8/21

Out: 195.262+/-0.043 $\chi^2$/NDF:3248786.0/25

All: 198.936+/-0.030 $\chi^2$/NDF: 5409912.8/47




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.247+/-0.132 $\chi^2$/NDF:7.0/6

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.170+/-0.122 $\chi^2$/NDF:8.3/5

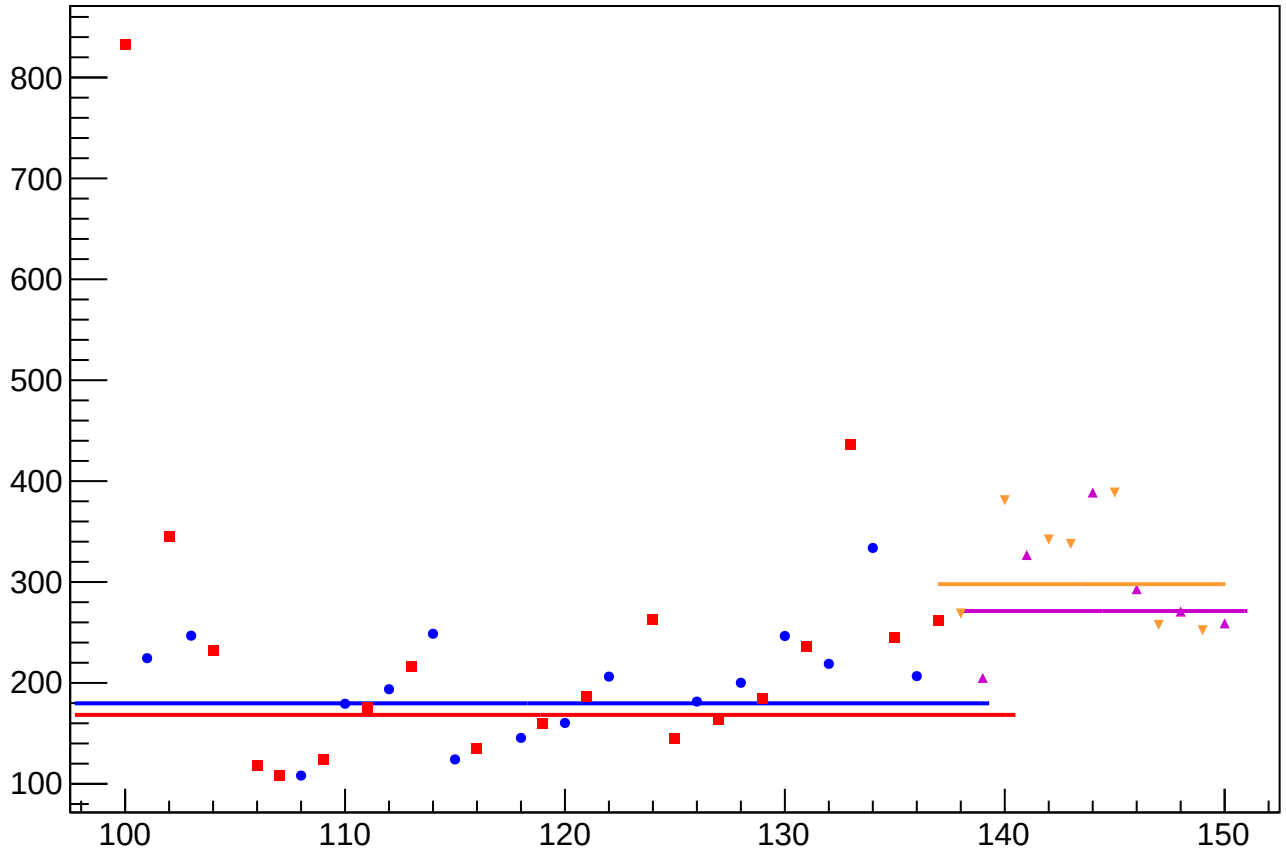
Left: -0.022+/-0.090 $\chi^2$/NDF: 20.7/12

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.070+/-0.061 $\chi^2$/NDF:19.8/21

Out: -0.126+/-0.060 $\chi^2$/NDF:25.7/25

All: -0.030+/-0.043 $\chi^2$/NDF: 50.6/47




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 297.899+/-0.093 $\chi^2$/NDF:314073.2/6

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 271.296+/-0.086 $\chi^2$/NDF:385230.6/5

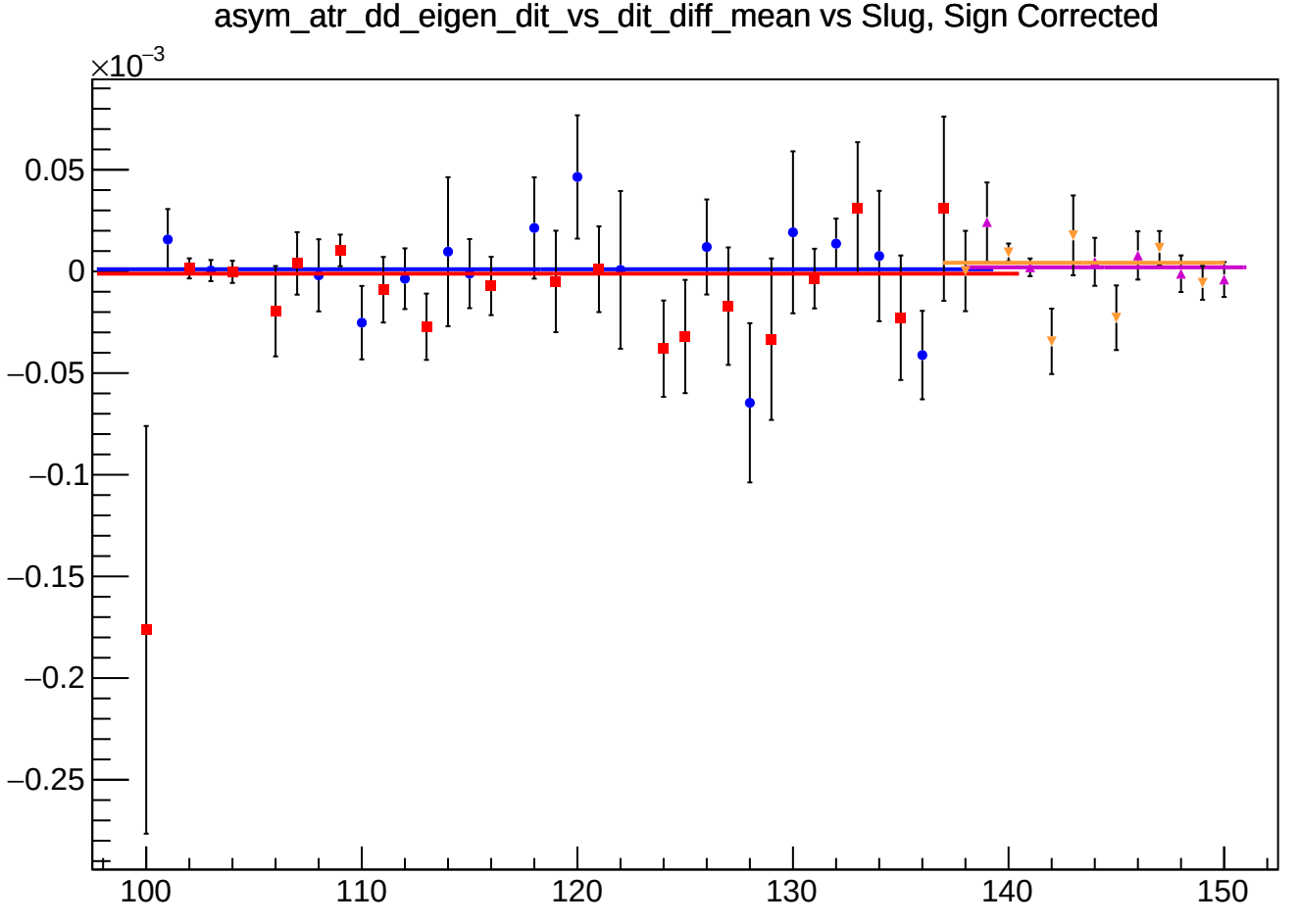
Left: 283.555+/-0.063 $\chi^2$/NDF: 743077.1/12

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 202.722+/-0.043 $\chi^2$/NDF:2145996.8/21

Out: 195.262+/-0.043 $\chi^2$/NDF:3248786.0/25

All: 198.936+/-0.030 $\chi^2$/NDF: 5409912.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:12.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.2/5

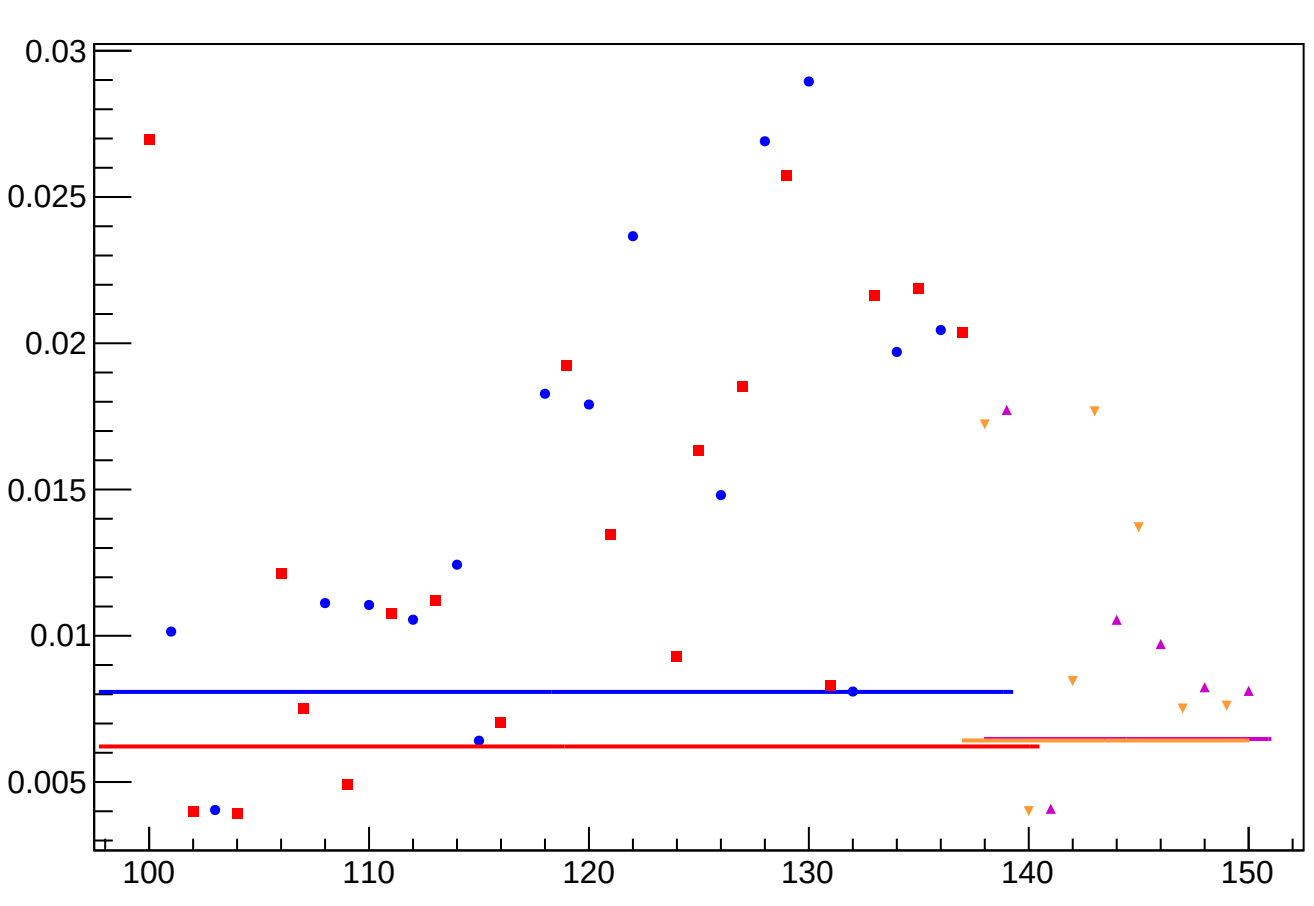
Left: 0.000+/-0.000 $\chi^2$/NDF: 15.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 46.8/47




Right In: 0.008+/-0.000 $\chi^2$/NDF: 4413462.8/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:2396962.4/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4560988.3/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:1807900.8/5

Left: 0.006+/-0.000 $\chi^2$/NDF: 4205119.2/12

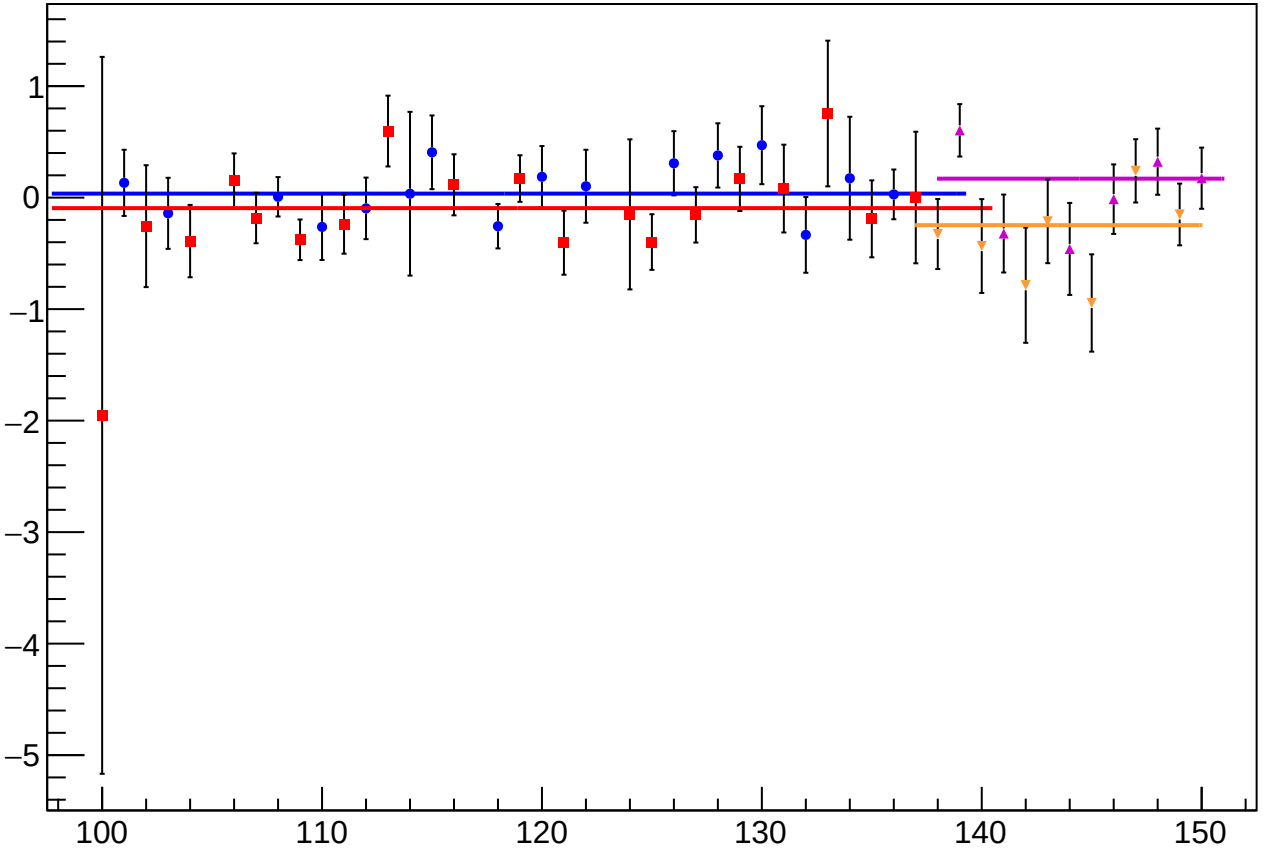
Right: 0.007+/-0.000 $\chi^2$/NDF: 9295058.4/34

In: 0.007+/-0.000 $\chi^2$/NDF:6434921.1/21

Out: 0.006+/-0.000 $\chi^2$/NDF:6962491.2/25

All: 0.007+/-0.000 $\chi^2$/NDF: 13539555.3/47

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.247+/-0.132 $\chi^2$/NDF:7.0/6

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.170+/-0.122 $\chi^2$/NDF:8.3/5

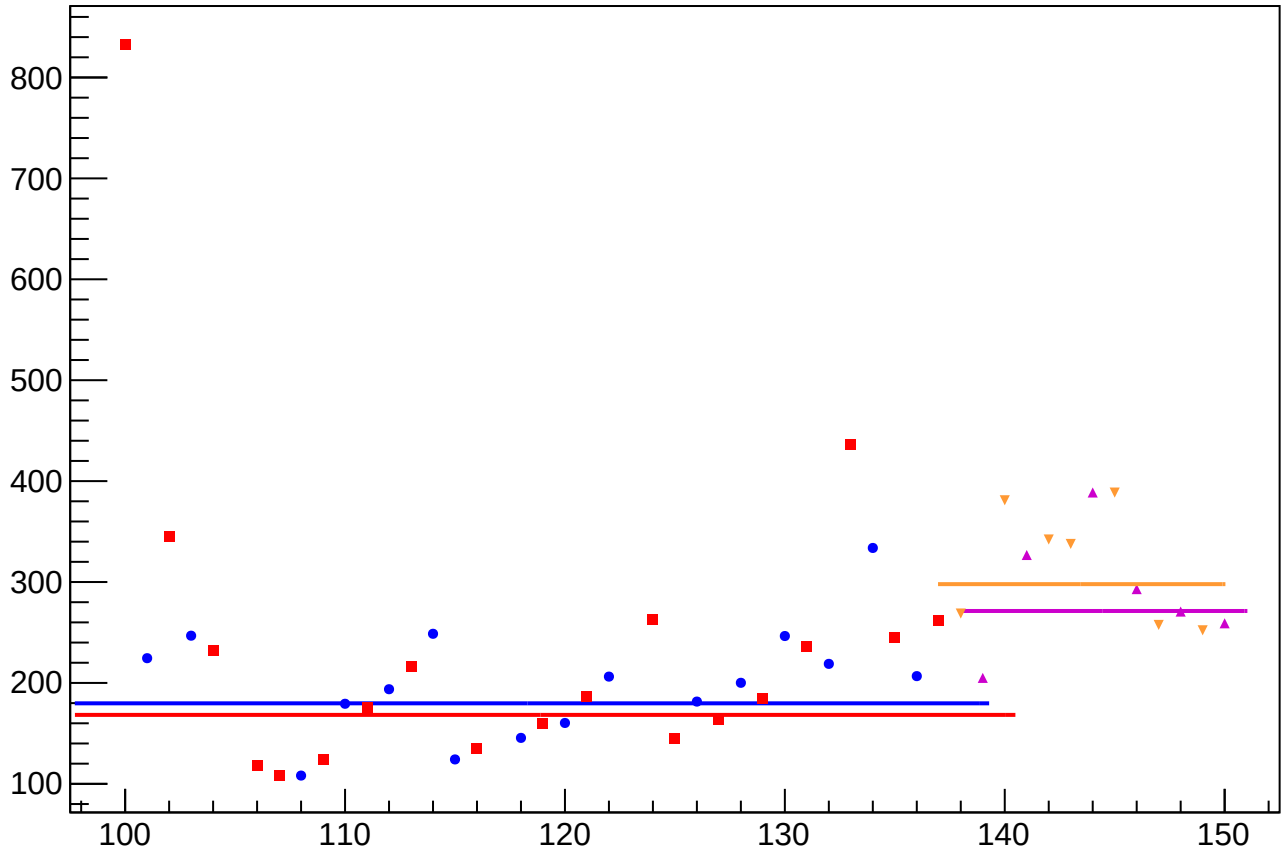
Left: -0.022+/-0.090 $\chi^2$/NDF: 20.7/12

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.070+/-0.061 $\chi^2$/NDF:19.8/21

Out: -0.126+/-0.060 $\chi^2$/NDF:25.7/25

All: -0.030+/-0.043 $\chi^2$/NDF: 50.6/47




Right In: 179.793+/-0.050 $\chi^2$/NDF: 918583.7/15

Left Out: 297.904+/-0.093 $\chi^2$/NDF:314056.4/6

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 271.301+/-0.086 $\chi^2$/NDF:385211.3/5

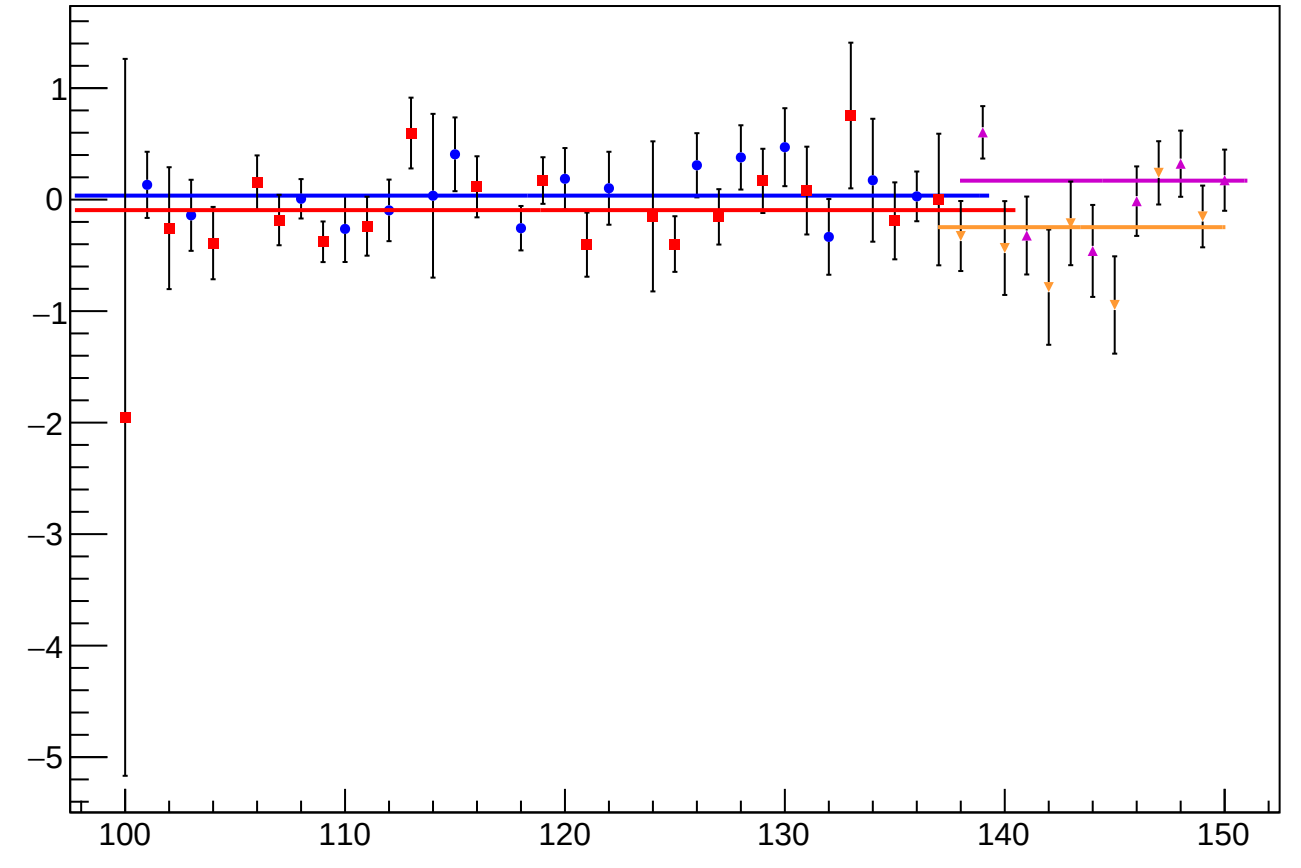
Left: 283.559+/-0.063 $\chi^2$/NDF: 743040.9/12

Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 202.720+/-0.043 $\chi^2$/NDF:2146138.3/21

Out: 195.262+/-0.043 $\chi^2$/NDF:3248846.4/25

All: 198.936+/-0.030 $\chi^2$/NDF: 5410106.7/47




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.247+/-0.132 $\chi^2$/NDF:7.0/6

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.170+/-0.122 $\chi^2$/NDF:8.3/5

Left: -0.022+/-0.090 $\chi^2$/NDF: 20.7/12

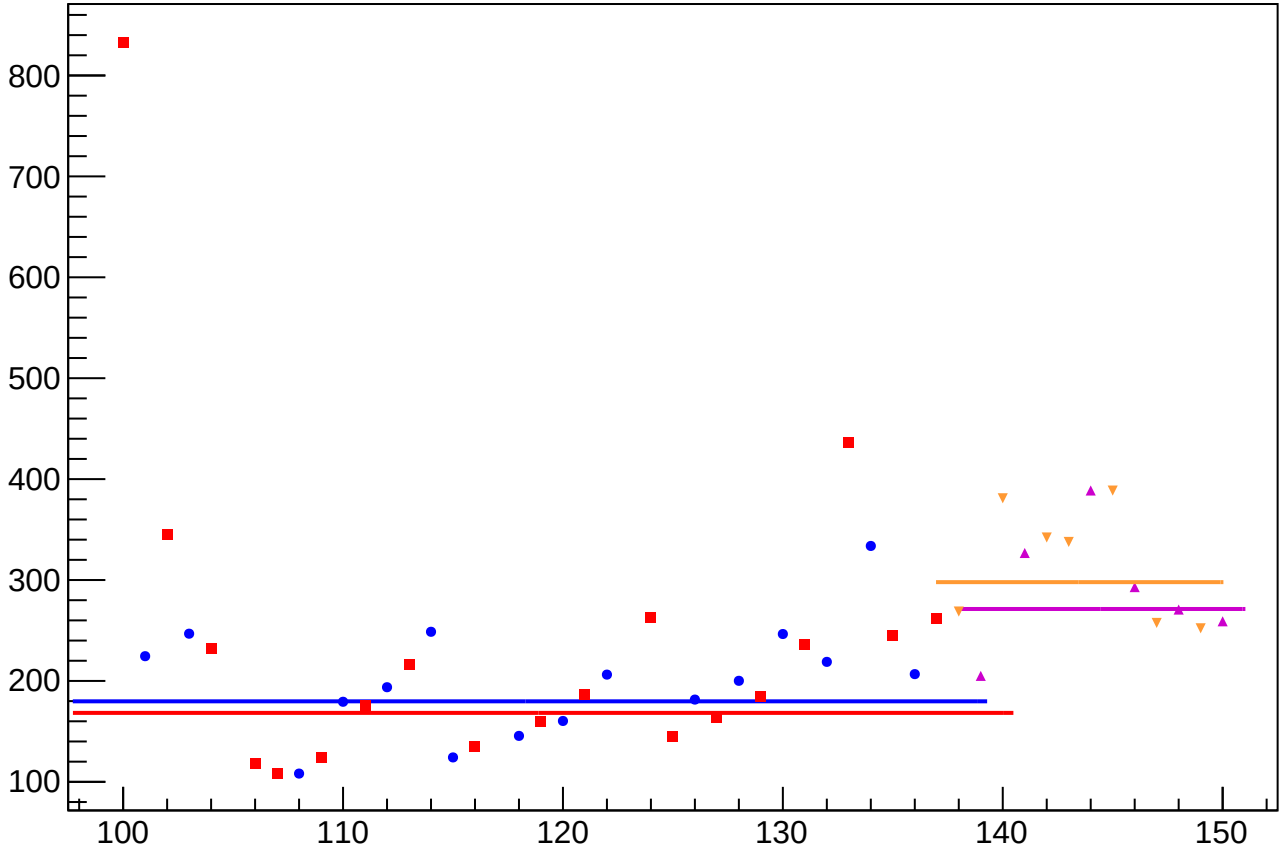
Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.070+/-0.061 $\chi^2$/NDF:19.8/21

Out: -0.126+/-0.060 $\chi^2$/NDF:25.7/25

All: -0.030+/-0.043 $\chi^2$/NDF: 50.6/47

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 179.793+/-0.050 $\chi^2$/NDF: 918583.7/15

Left Out: 297.904+/-0.093 $\chi^2$/NDF:314056.4/6

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 271.301+/-0.086 $\chi^2$/NDF:385211.3/5

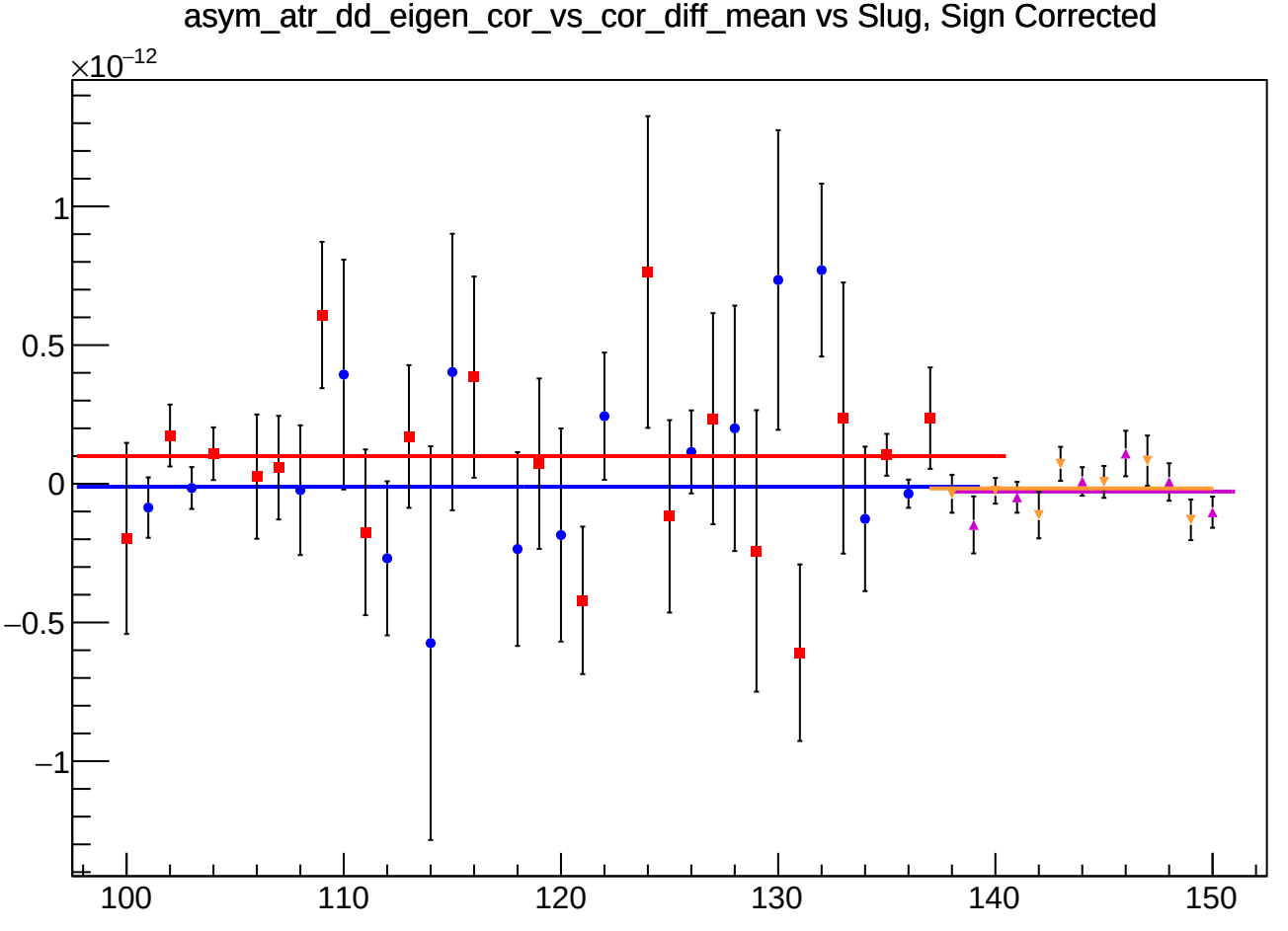
Left: 283.559+/-0.063 $\chi^2$/NDF: 743040.9/12

Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 202.720+/-0.043 $\chi^2$/NDF:2146138.3/21

Out: 195.262+/-0.043 $\chi^2$/NDF:3248846.4/25

All: 198.936+/-0.030 $\chi^2$/NDF: 5410106.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.8/5

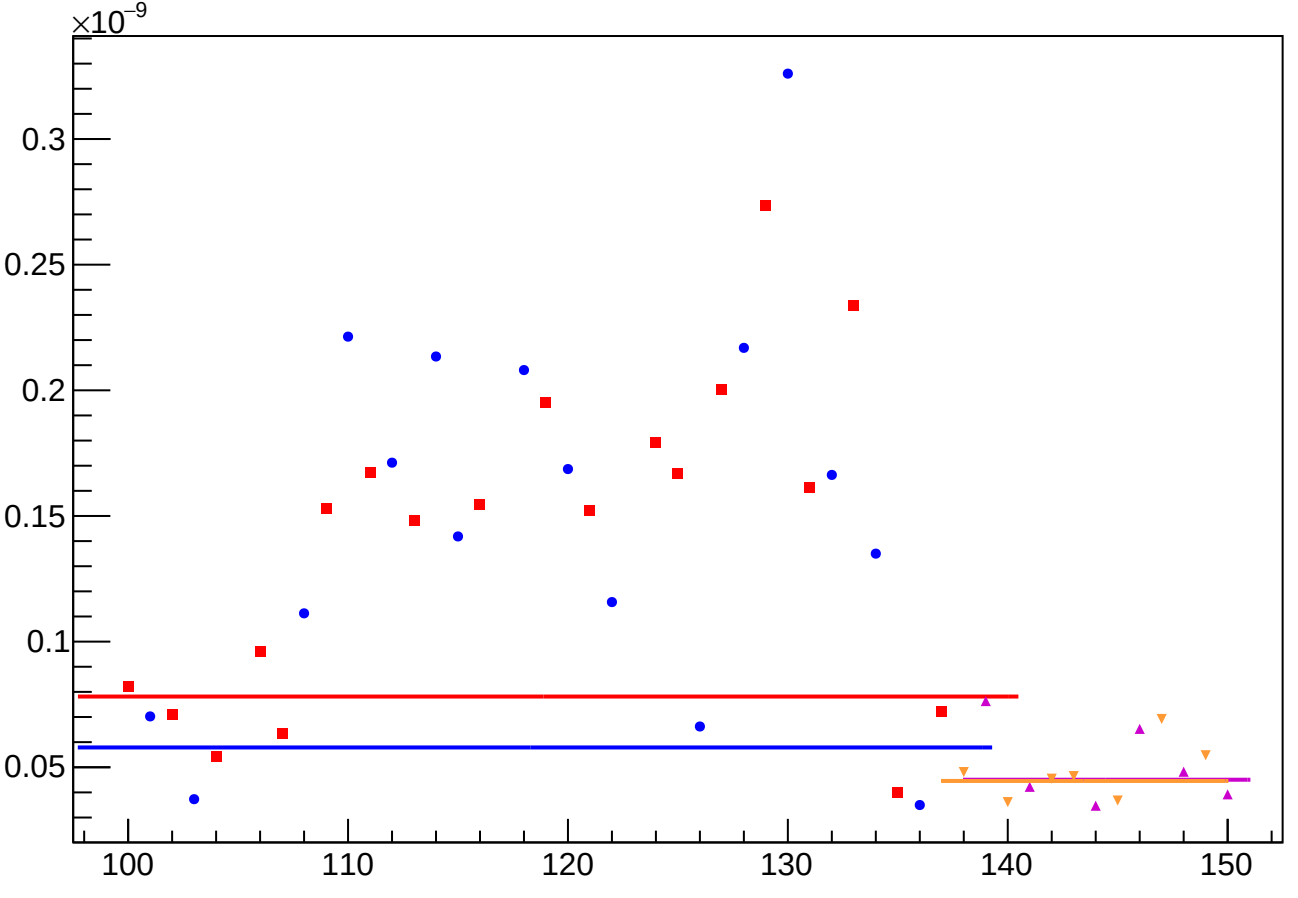
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:31.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 54.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3322992.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:297366.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732134.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:418272.3/5

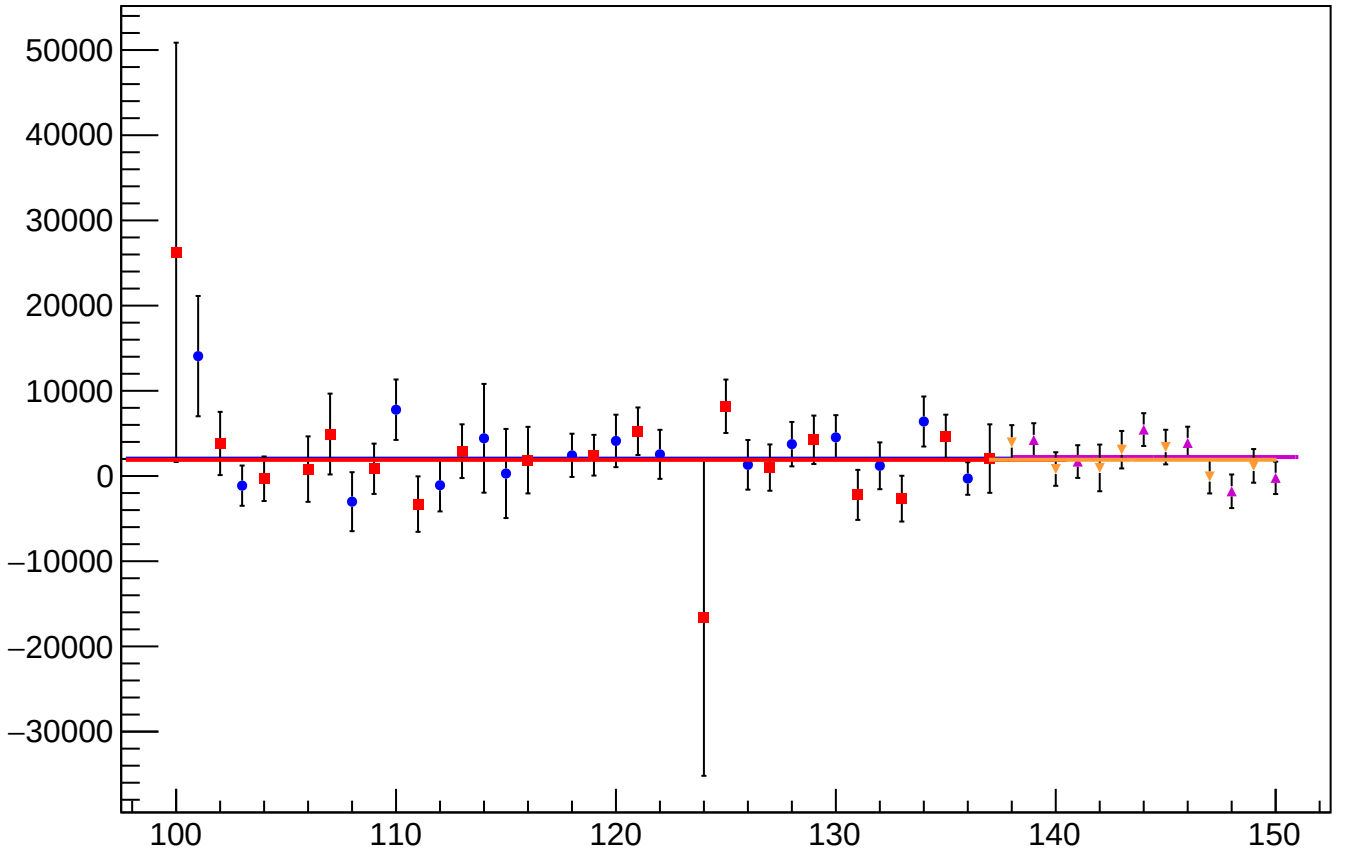
Left: 0.000+/-0.000 $\chi^2$/NDF: 716016.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 6327236.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3913217.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3984601.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7923514.5/47




Right In: 2039.211+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1909.527+/-792.926 $\chi^2$/NDF:3.4/6

Right Out: 1895.242+/-736.762 $\chi^2$/NDF: 18.5/18

Left In: 2226.569+/-788.102 $\chi^2$/NDF:10.5/5

Left: 2069.015+/-558.970 $\chi^2$/NDF: 13.9/12

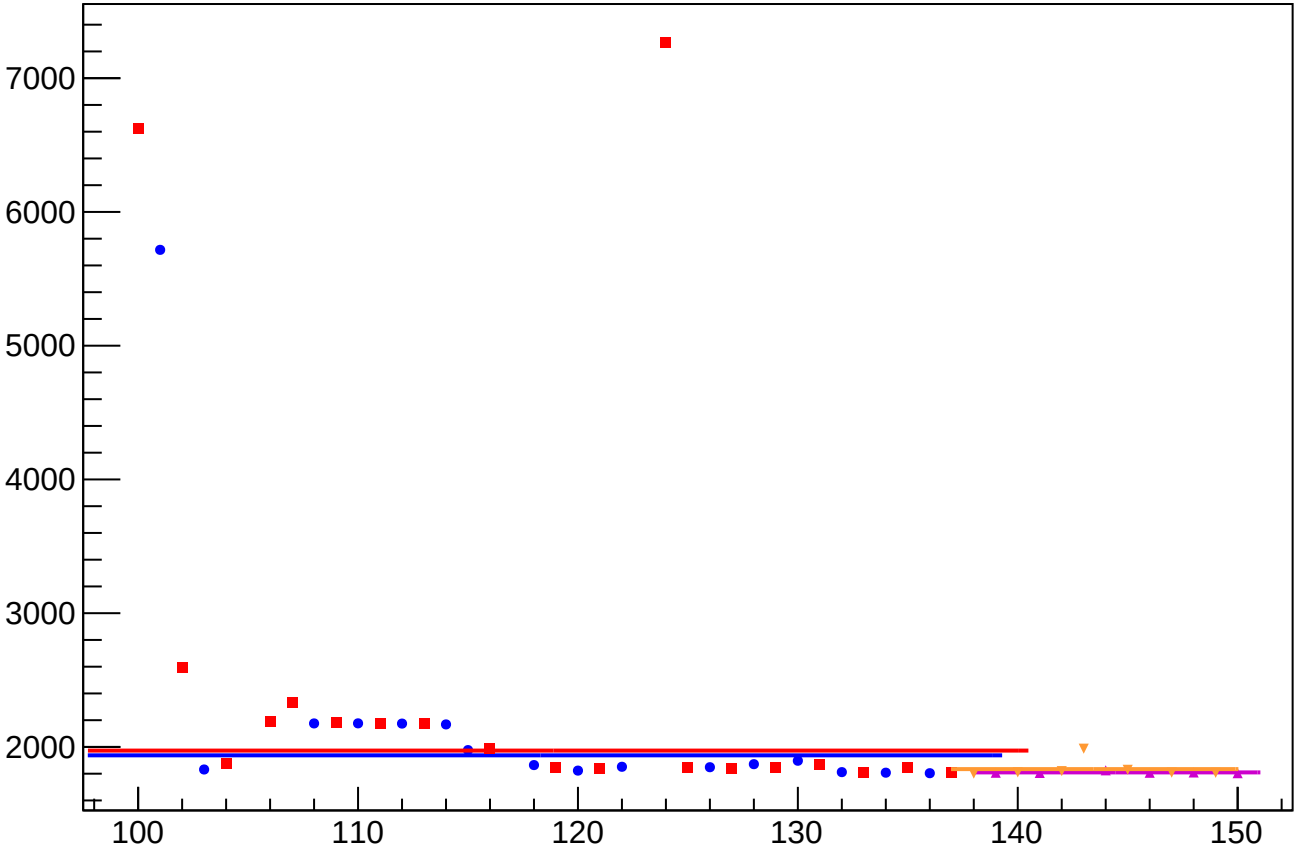
Right: 1967.281+/-520.774 $\chi^2$/NDF: 35.0/34

In: 2126.519+/-537.990 $\chi^2$/NDF:27.0/21

Out: 1901.861+/-539.734 $\chi^2$/NDF:21.9/25

All: 2014.554+/-381.031 $\chi^2$/NDF: 48.9/47

# reg_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1834.265+/-0.561 $\chi^2$/NDF:11321.6/6

Right Out: 1972.760+/-0.521 $\chi^2$/NDF: 377537.1/18

Left In: 1809.655+/-0.557 $\chi^2$/NDF:164.8/5

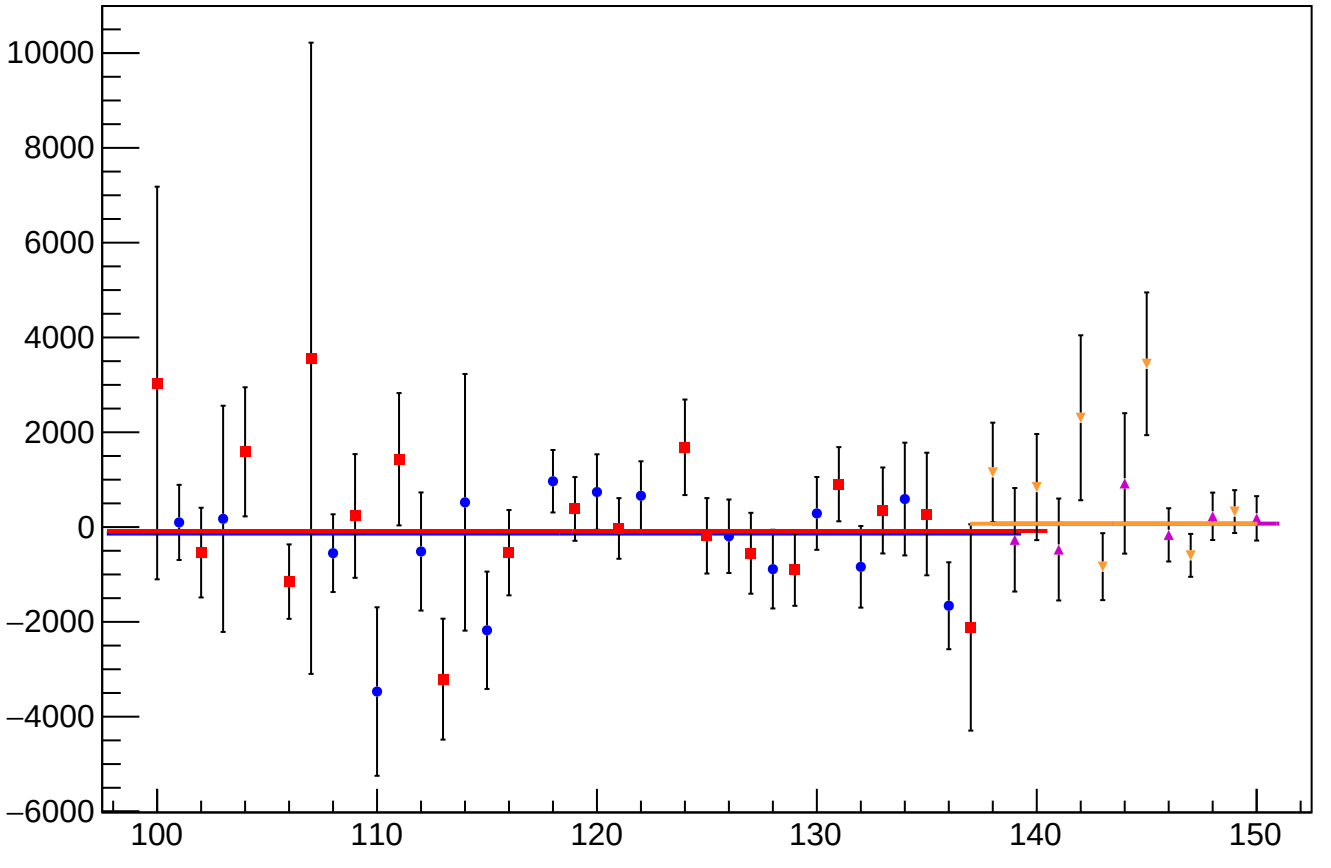
Left: 1821.884+/-0.395 $\chi^2$/NDF: 12455.5/12

Right: 1954.992+/-0.368 $\chi^2$/NDF: 1017954.2/34

In: 1877.791+/-0.380 $\chi^2$/NDF:666252.7/21

Out: 1908.591+/-0.382 $\chi^2$/NDF:421603.4/25

All: 1893.141+/-0.269 $\chi^2$/NDF: 1091122.8/47




Right In: -136.643+/-230.431 $\chi^2$/NDF: 16.9/15

Left Out: 70.836+/-264.859 $\chi^2$/NDF:12.4/6

Right Out: -82.296+/-222.019 $\chi^2$/NDF: 19.7/18

Left In: 72.826+/-268.395 $\chi^2$/NDF:1.0/5

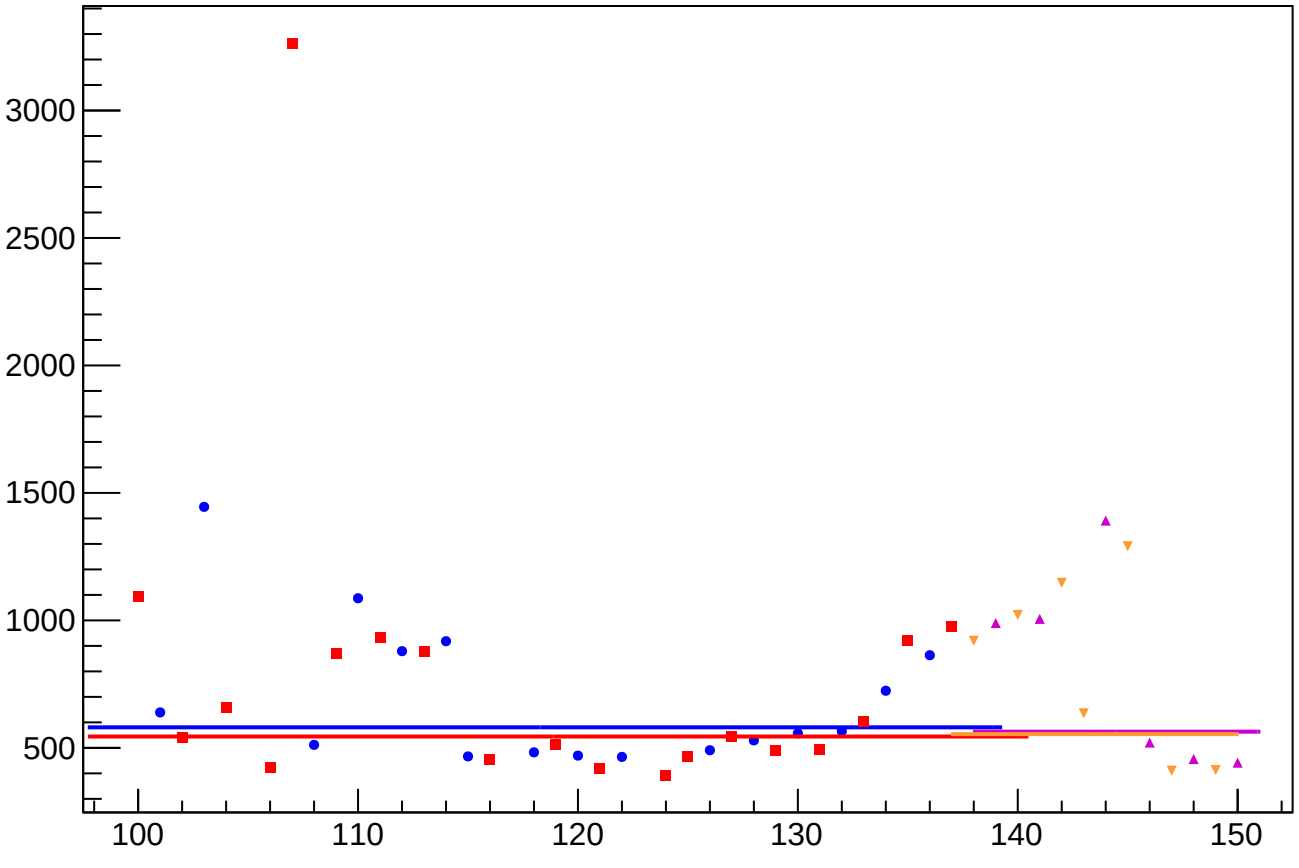
Left: 71.817+/-188.522 $\chi^2$/NDF: 13.4/12

Right: -108.459+/-159.882 $\chi^2$/NDF: 36.7/34

In: -47.759+/-174.834 $\chi^2$/NDF:18.3/21

Out: -19.101+/-170.147 $\chi^2$/NDF:32.3/25

All: -33.041+/-121.936 $\chi^2$/NDF: 50.6/47




Right In: 580.611+/-0.163 $\chi^2$/NDF: 1003410.8/15

Left Out: 553.935+/-0.187 $\chi^2$/NDF:1726336.2/6

Right Out: 544.530+/-0.157 $\chi^2$/NDF: 1287643.0/18

Left In: 563.624+/-0.190 $\chi^2$/NDF:1505301.1/5

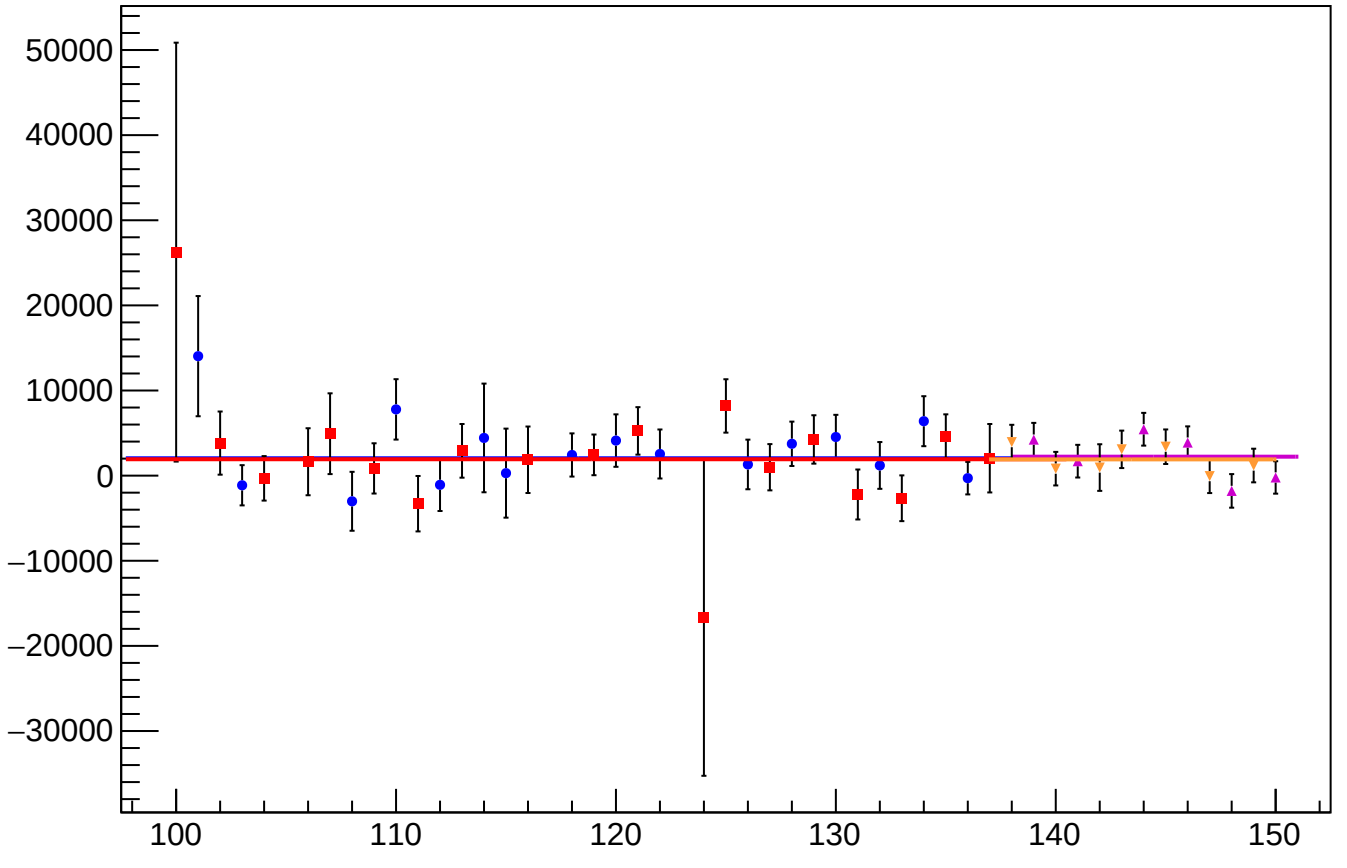
Left: 558.715+/-0.133 $\chi^2$/NDF: 3232958.0/12

Right: 561.900+/-0.113 $\chi^2$/NDF: 2316481.8/34

In: 573.403+/-0.124 $\chi^2$/NDF:2513323.7/21

Out: 548.411+/-0.120 $\chi^2$/NDF:3015460.1/25

All: 560.568+/-0.086 $\chi^2$/NDF: 5549771.7/47




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1909.407+/-792.926 $\chi^2$/NDF:3.4/6

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 2226.800+/-788.102 $\chi^2$/NDF:10.5/5

Left: 2069.072+/-558.970 $\chi^2$/NDF: 13.9/12

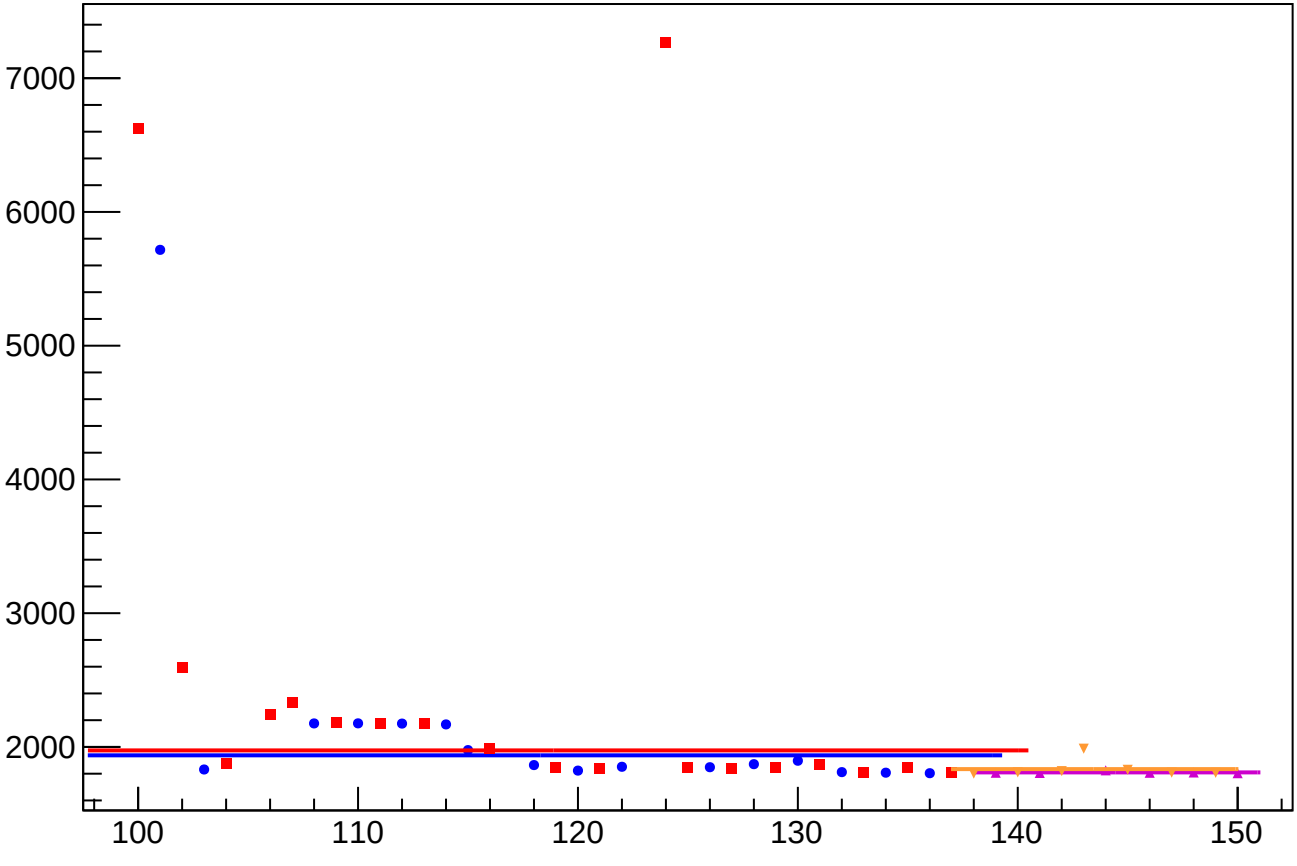
Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2126.430+/-537.990 $\chi^2$/NDF:26.9/21

Out: 1918.446+/-539.989 $\chi^2$/NDF:21.8/25

All: 2022.824+/-381.121 $\chi^2$/NDF: 48.8/47

# cor_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1834.265+/-0.561 $\chi^2$/NDF:11321.6/6

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1809.655+/-0.557 $\chi^2$/NDF:164.8/5

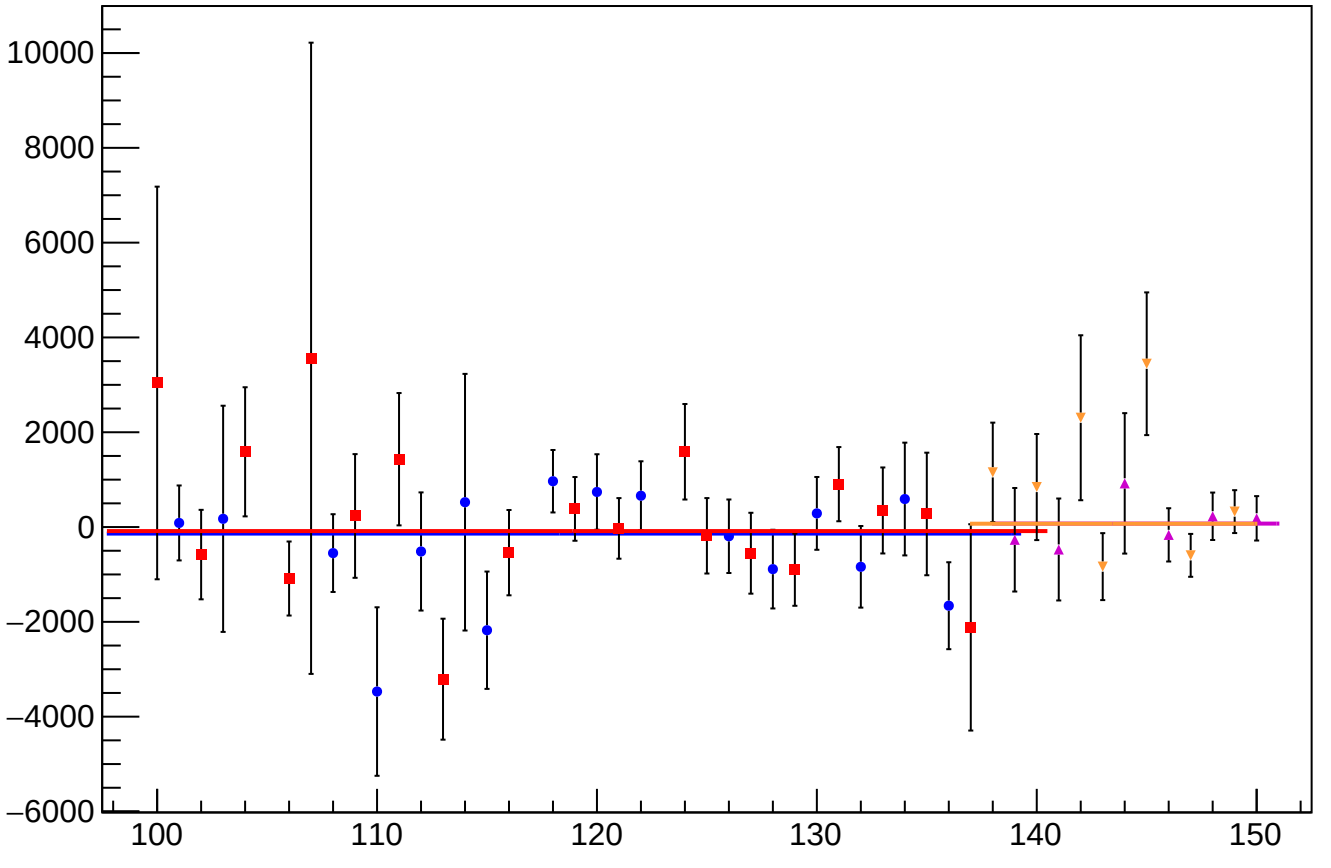
Left: 1821.885+/-0.395 $\chi^2$/NDF: 12455.5/12

Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1877.791+/-0.380 $\chi^2$/NDF:666252.6/21

Out: 1909.278+/-0.382 $\chi^2$/NDF:425132.5/25

All: 1893.476+/-0.269 $\chi^2$/NDF: 1094797.8/47




Right In: -137.491+/-230.382 $\chi^2$/NDF: 16.9/15

Left Out: 70.442+/-264.859 $\chi^2$/NDF:12.4/6

Right Out: -84.947+/-221.881 $\chi^2$/NDF: 19.3/18

Left In: 72.815+/-268.396 $\chi^2$/NDF:1.0/5

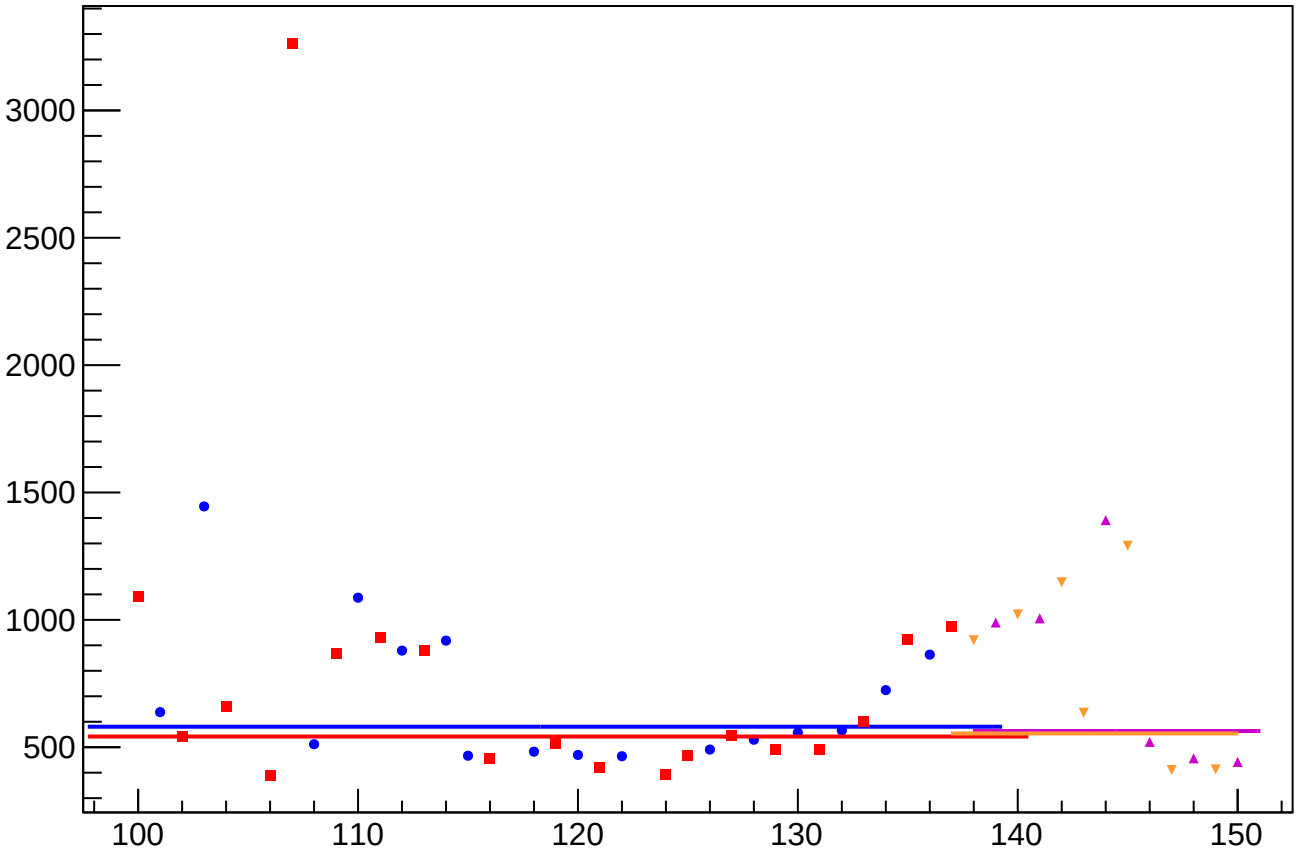
Left: 71.612+/-188.522 $\chi^2$/NDF: 13.4/12

Right: -110.232+/-159.814 $\chi^2$/NDF: 36.2/34

In: -48.274+/-174.813 $\chi^2$/NDF:18.3/21

Out: -20.867+/-170.085 $\chi^2$/NDF:31.8/25

All: -34.195+/-121.906 $\chi^2$/NDF: 50.1/47




Right In: 580.519+/-0.163 $\chi^2$/NDF: 1002900.5/15

Left Out: 553.933+/-0.187 $\chi^2$/NDF:1726321.5/6

Right Out: 541.939+/-0.157 $\chi^2$/NDF: 1318850.5/18

Left In: 563.625+/-0.190 $\chi^2$/NDF:1505302.9/5

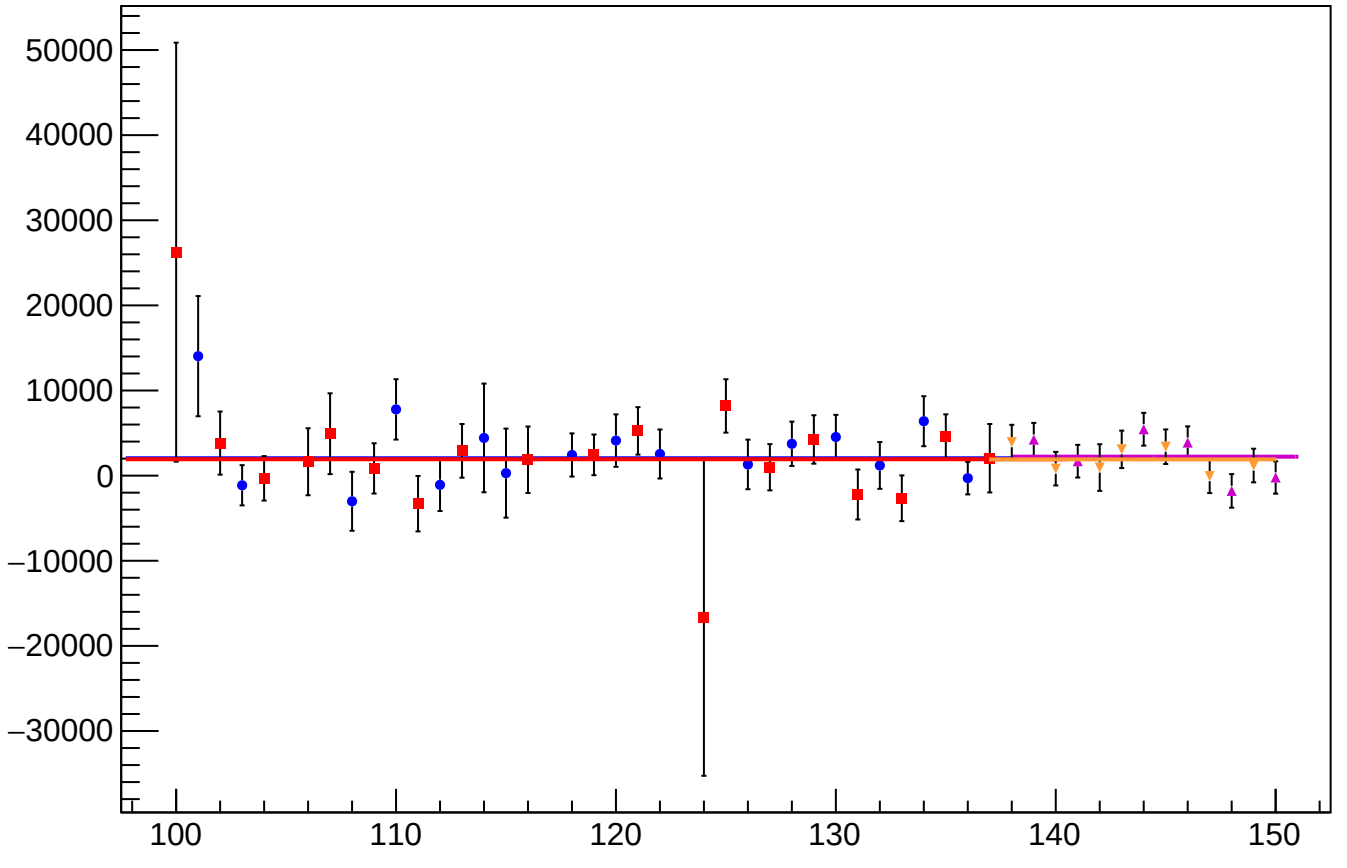
Left: 558.715+/-0.133 $\chi^2$/NDF: 3232945.6/12

Right: 560.504+/-0.113 $\chi^2$/NDF: 2350848.1/34

In: 573.352+/-0.124 $\chi^2$/NDF:2512765.6/21

Out: 546.885+/-0.120 $\chi^2$/NDF:3047582.2/25

All: 559.756+/-0.086 $\chi^2$/NDF: 5583898.5/47




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1909.407+/-792.926 $\chi^2$/NDF:3.4/6

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 2226.800+/-788.102 $\chi^2$/NDF:10.5/5

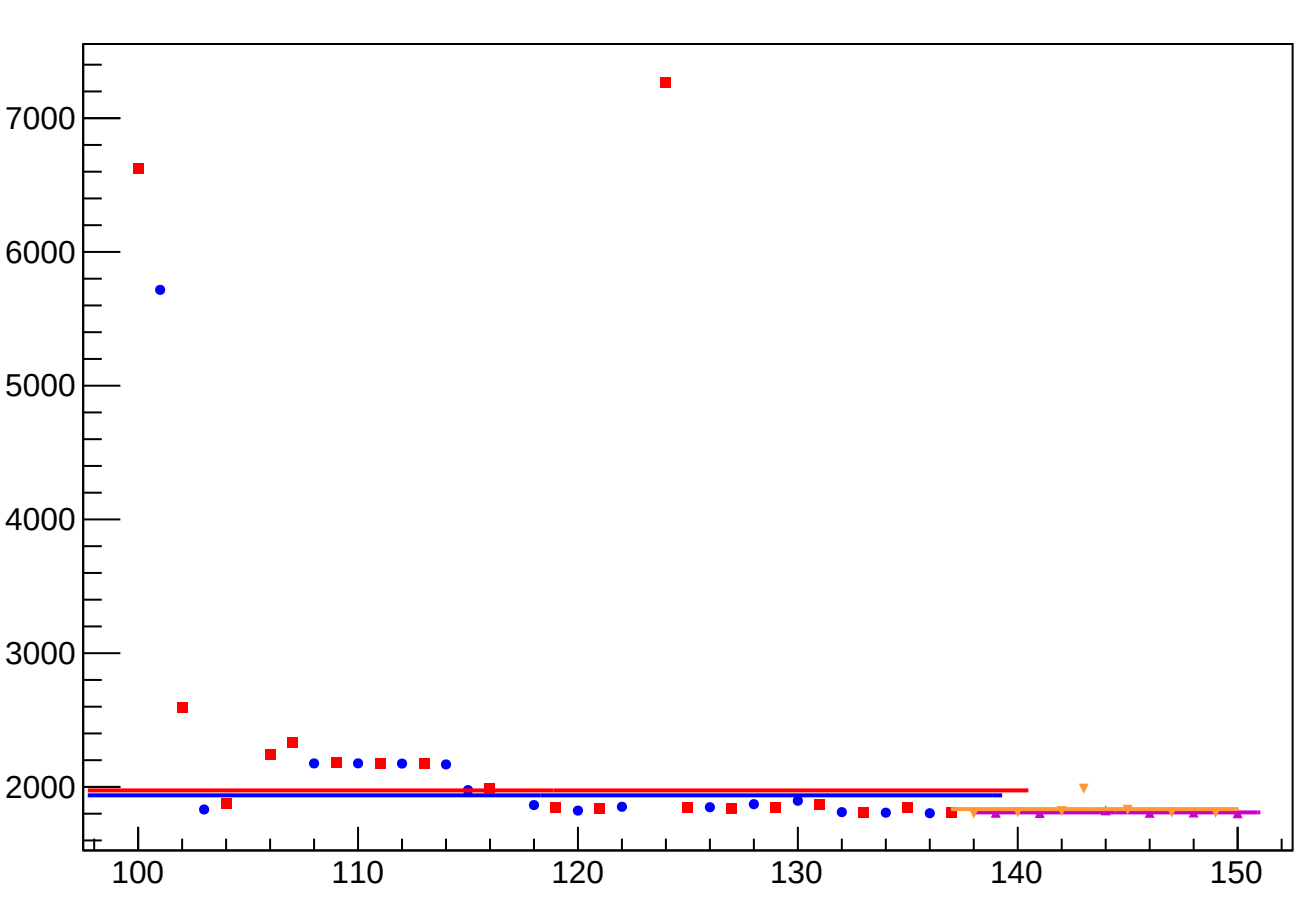
Left: 2069.072+/-558.970 $\chi^2$/NDF: 13.9/12

Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2126.430+/-537.990 $\chi^2$/NDF:26.9/21

Out: 1918.446+/-539.989 $\chi^2$/NDF:21.8/25

All: 2022.824+/-381.121 $\chi^2$/NDF: 48.8/47




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1834.265+/-0.561 $\chi^2$/NDF:11321.6/6

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1809.655+/-0.557 $\chi^2$/NDF:164.8/5

Left: 1821.885+/-0.395 $\chi^2$/NDF: 12455.5/12

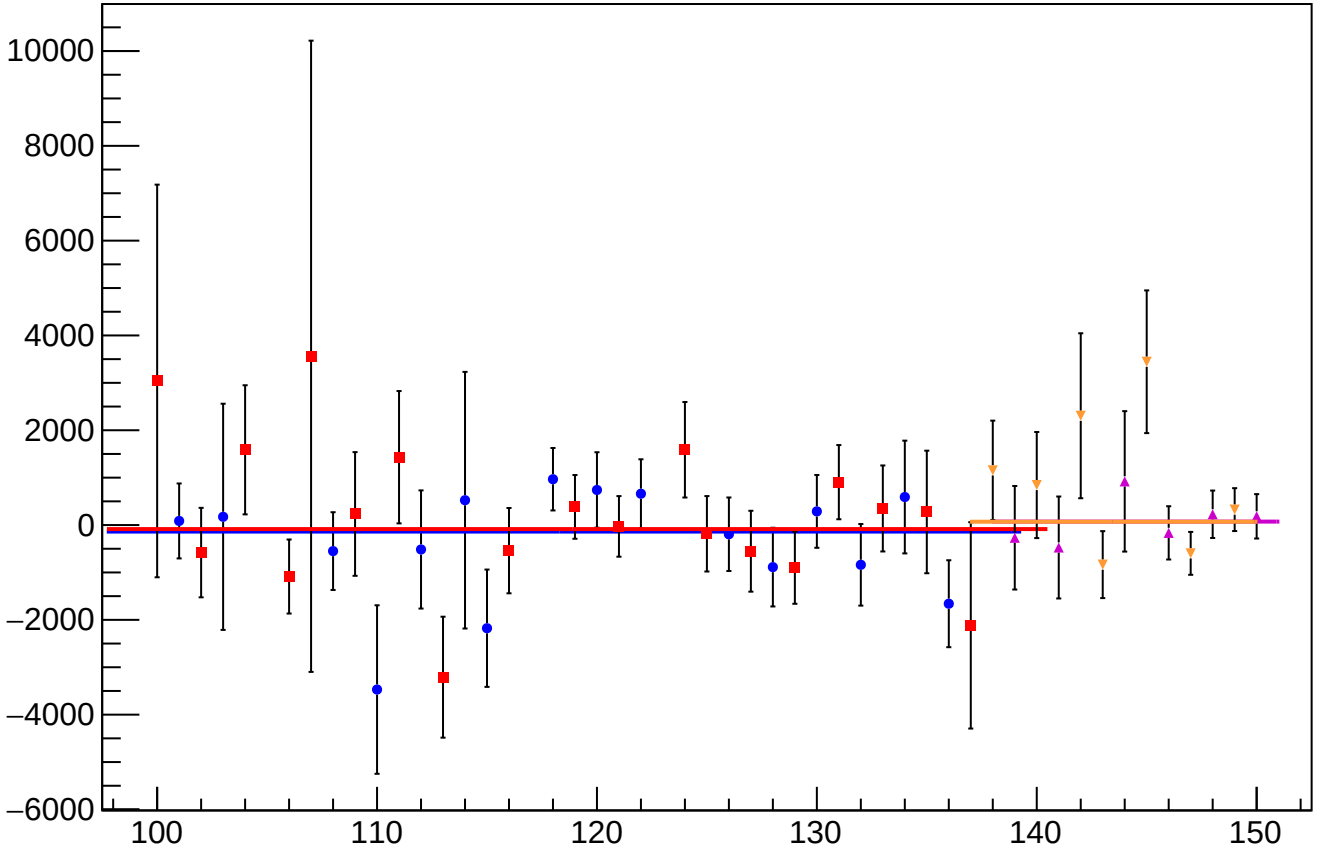
Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1877.791+/-0.380 $\chi^2$/NDF:666252.6/21

Out: 1909.278+/-0.382 $\chi^2$/NDF:425132.5/25

All: 1893.476+/-0.269 $\chi^2$/NDF: 1094797.8/47

asym_at1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -137.491+/-230.382 $\chi^2$/NDF: 16.9/15

Left Out: 70.442+/-264.859 $\chi^2$/NDF:12.4/6

Right Out: -84.947+/-221.881 $\chi^2$/NDF: 19.3/18

Left In: 72.815+/-268.396 $\chi^2$/NDF:1.0/5

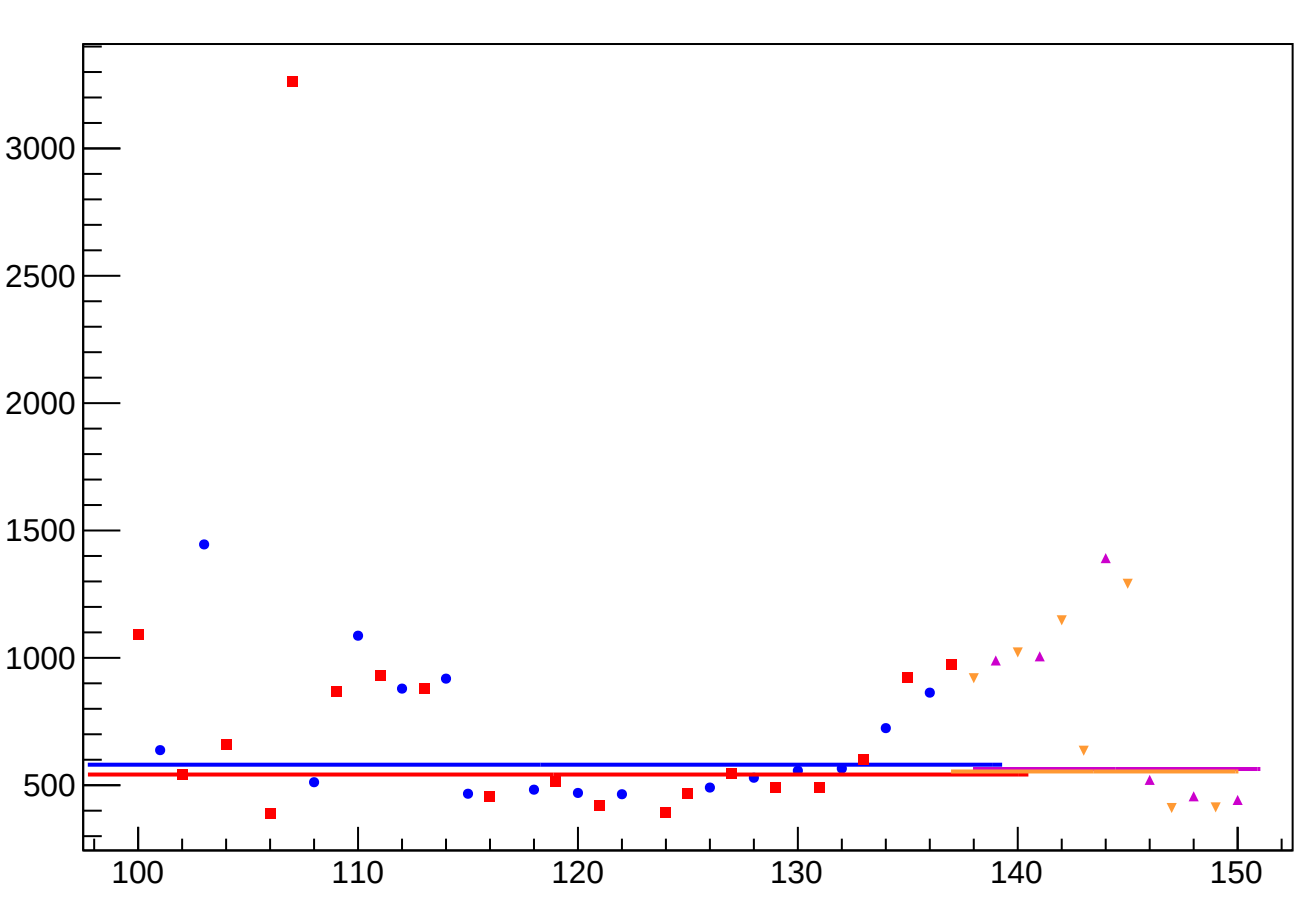
Left: 71.612+/-188.522 $\chi^2$/NDF: 13.4/12

Right: -110.232+/-159.814 $\chi^2$/NDF: 36.2/34

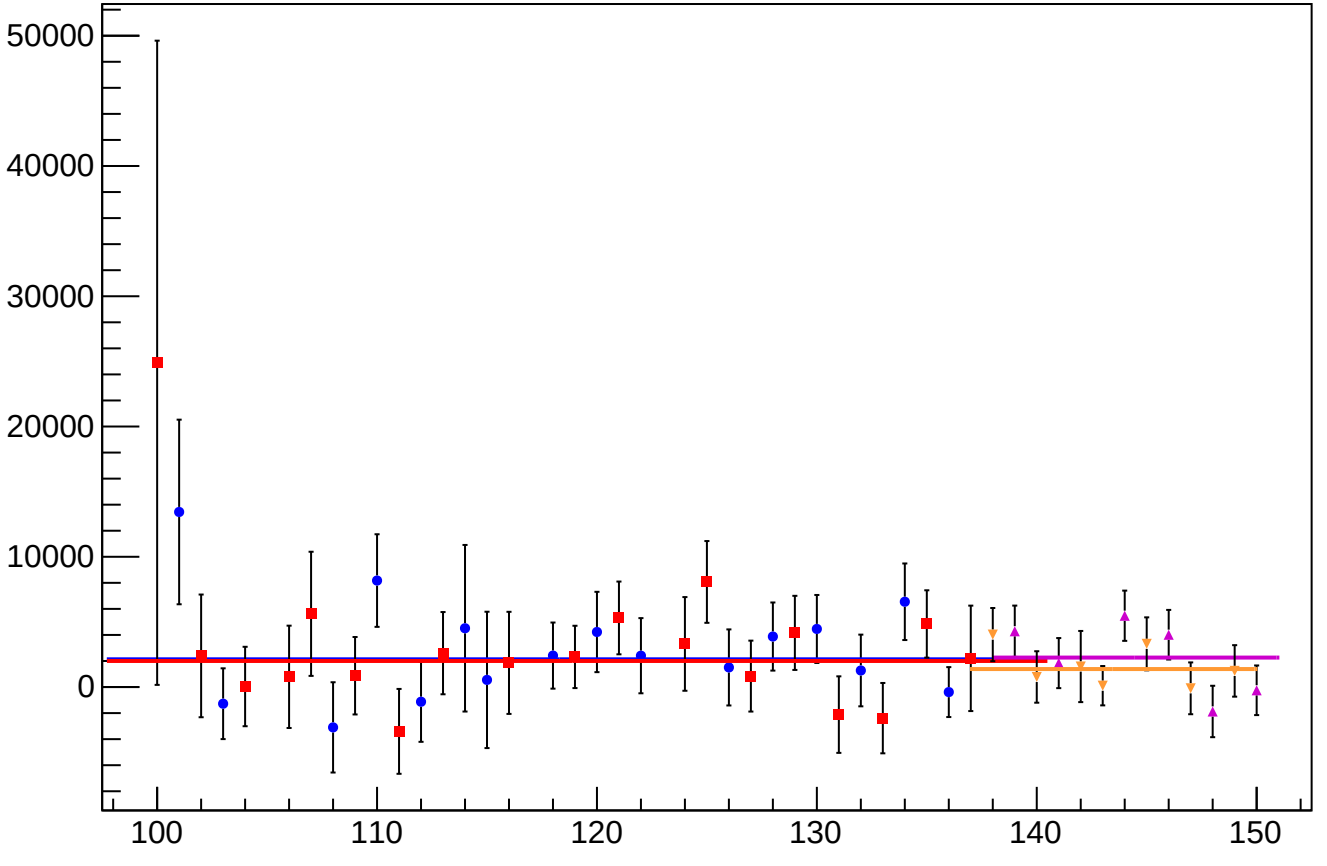
In: -48.274+/-174.813 $\chi^2$/NDF:18.3/21

Out: -20.867+/-170.085 $\chi^2$/NDF:31.8/25

All: -34.195+/-121.906 $\chi^2$/NDF: 50.1/47


asym_at1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
3000
2500
2000
1500
1000
500
100
110
120
130
140
150
Right In: 580.519+/-0.163 χ²/NDF: 1002900.5/15
Left Out: 553.933+/-0.187 χ²/NDF:1726321.5/6
Right Out: 541.939+/-0.157 χ²/NDF: 1318850.5/18
Left In: 563.625+/-0.190 χ²/NDF:1505302.9/5
Left: 558.715+/-0.133 χ²/NDF: 3232945.6/12
Right: 560.504+/-0.113 χ²/NDF: 2350848.1/34
In: 573.352+/-0.124 χ²/NDF:2512765.6/21
Out: 546.885+/-0.120 χ²/NDF:3047582.2/25
All: 559.756+/-0.086 χ²/NDF: 5583898.5/47

# dit_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2128.748+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1381.451+/-741.414 $\chi^2$/NDF:4.0/6

Right Out: 2002.220+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 2261.736+/-789.243 $\chi^2$/NDF:10.9/5

Left: 1794.114+/-540.377 $\chi^2$/NDF: 15.5/12

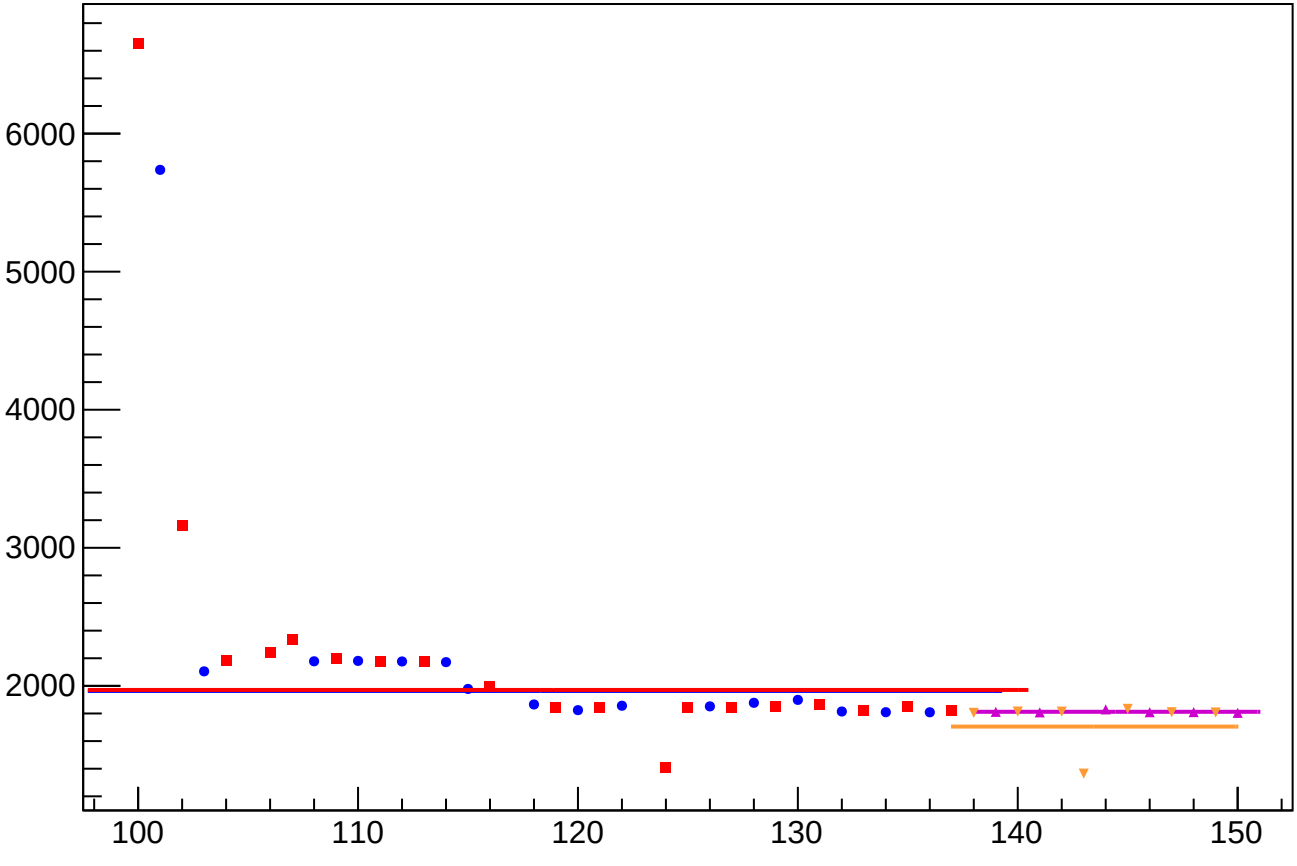
Right: 2064.712+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2191.521+/-542.238 $\chi^2$/NDF:27.4/21

Out: 1693.607+/-522.761 $\chi^2$/NDF:21.0/25

All: 1933.461+/-376.345 $\chi^2$/NDF: 48.9/47

# dit_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640254.1/15

Left Out: 1705.095+/-0.524 $\chi^2$/NDF:134567.1/6

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345133.0/18

Left In: 1812.224+/-0.558 $\chi^2$/NDF:211.6/5

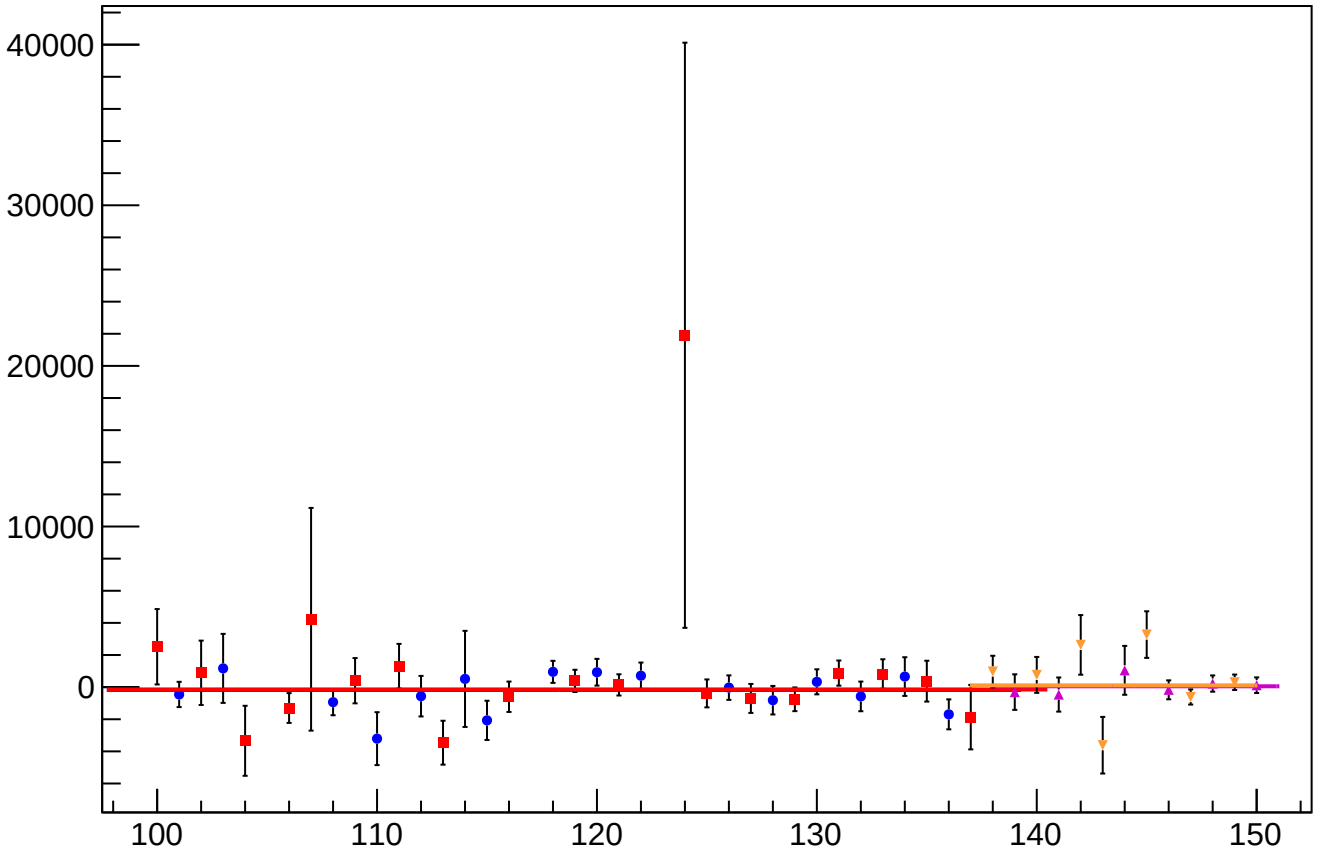
Left: 1755.315+/-0.382 $\chi^2$/NDF: 154353.5/12

Right: 1966.980+/-0.371 $\chi^2$/NDF: 985477.3/34

In: 1892.050+/-0.383 $\chi^2$/NDF:679216.6/21

Out: 1838.534+/-0.370 $\chi^2$/NDF:608535.9/25

All: 1864.314+/-0.266 $\chi^2$/NDF: 1297849.2/47




Right In: -170.774+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: 110.103+/-291.727 $\chi^2$/NDF:14.7/6

Right Out: -147.489+/-242.848 $\chi^2$/NDF: 20.1/18

Left In: 52.400+/-275.965 $\chi^2$/NDF:1.0/5

Left: 79.651+/-200.477 $\chi^2$/NDF: 15.8/12

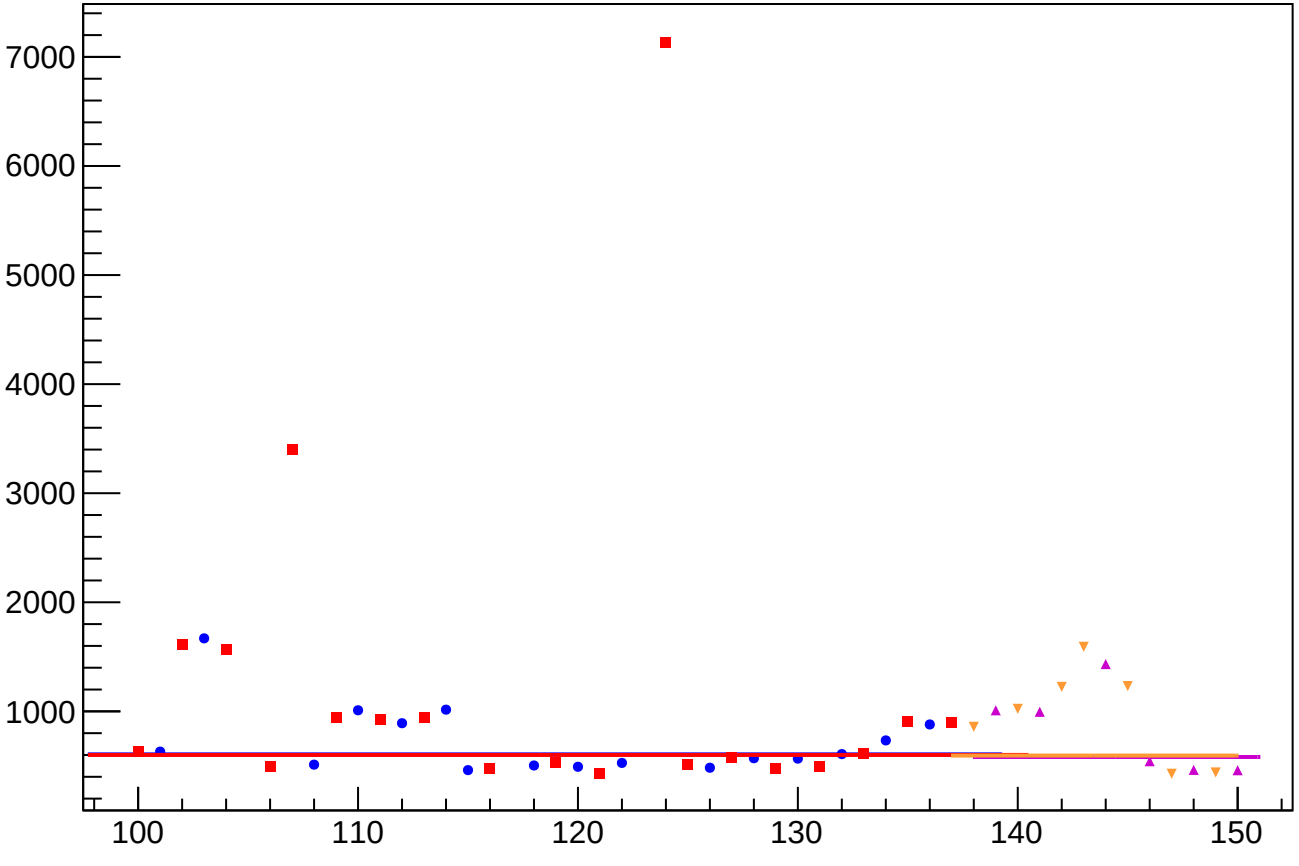
Right: -159.420+/-169.582 $\chi^2$/NDF: 37.3/34

In: -76.083+/-179.758 $\chi^2$/NDF:18.6/21

Out: -42.051+/-186.642 $\chi^2$/NDF:35.3/25

All: -59.706+/-129.473 $\chi^2$/NDF: 53.9/47

# asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 605.430+/-0.168 $\chi^2$/NDF: 1162454.5/15

Left Out: 594.708+/-0.206 $\chi^2$/NDF:2152285.0/6

Right Out: 600.447+/-0.172 $\chi^2$/NDF: 2328523.8/18

Left In: 581.574+/-0.195 $\chi^2$/NDF:1471546.2/5

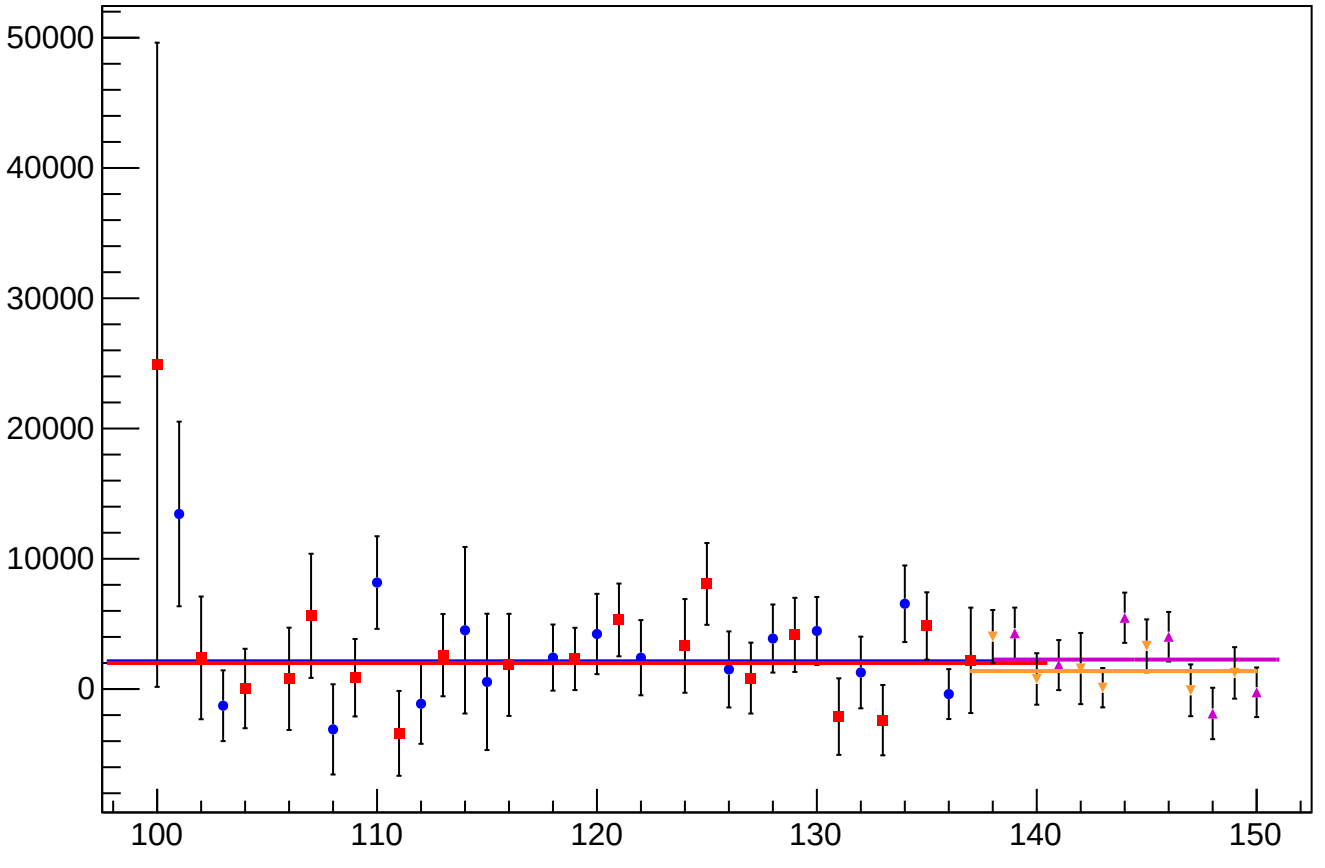
Left: 587.777+/-0.142 $\chi^2$/NDF: 3625970.4/12

Right: 603.000+/-0.120 $\chi^2$/NDF: 3491409.7/34

In: 595.308+/-0.127 $\chi^2$/NDF:2642604.3/21

Out: 598.098+/-0.132 $\chi^2$/NDF:4481266.0/25

All: 596.650+/-0.092 $\chi^2$/NDF: 7124102.1/47




Right In: 2128.746+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1381.453+/-741.414 $\chi^2$/NDF:4.0/6

Right Out: 2002.218+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 2261.736+/-789.243 $\chi^2$/NDF:10.9/5

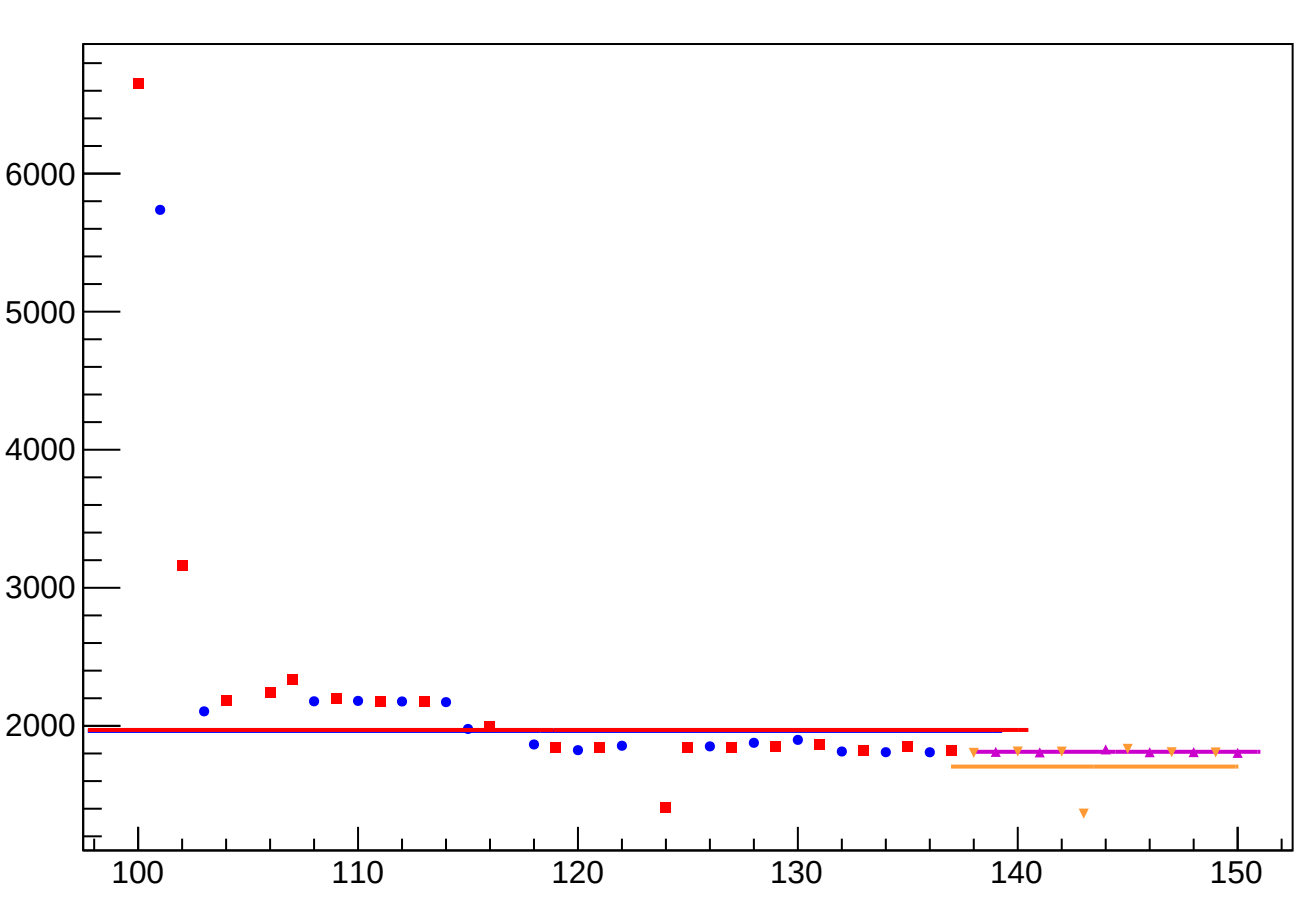
Left: 1794.115+/-540.377 $\chi^2$/NDF: 15.5/12

Right: 2064.710+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2191.520+/-542.238 $\chi^2$/NDF:27.4/21

Out: 1693.607+/-522.761 $\chi^2$/NDF:21.1/25

All: 1933.461+/-376.345 $\chi^2$/NDF: 48.9/47




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640253.8/15

Left Out: 1705.095+/-0.524 $\chi^2$/NDF:134567.1/6

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345131.7/18

Left In: 1812.224+/-0.558 $\chi^2$/NDF:211.6/5

Left: 1755.315+/-0.382 $\chi^2$/NDF: 154353.5/12

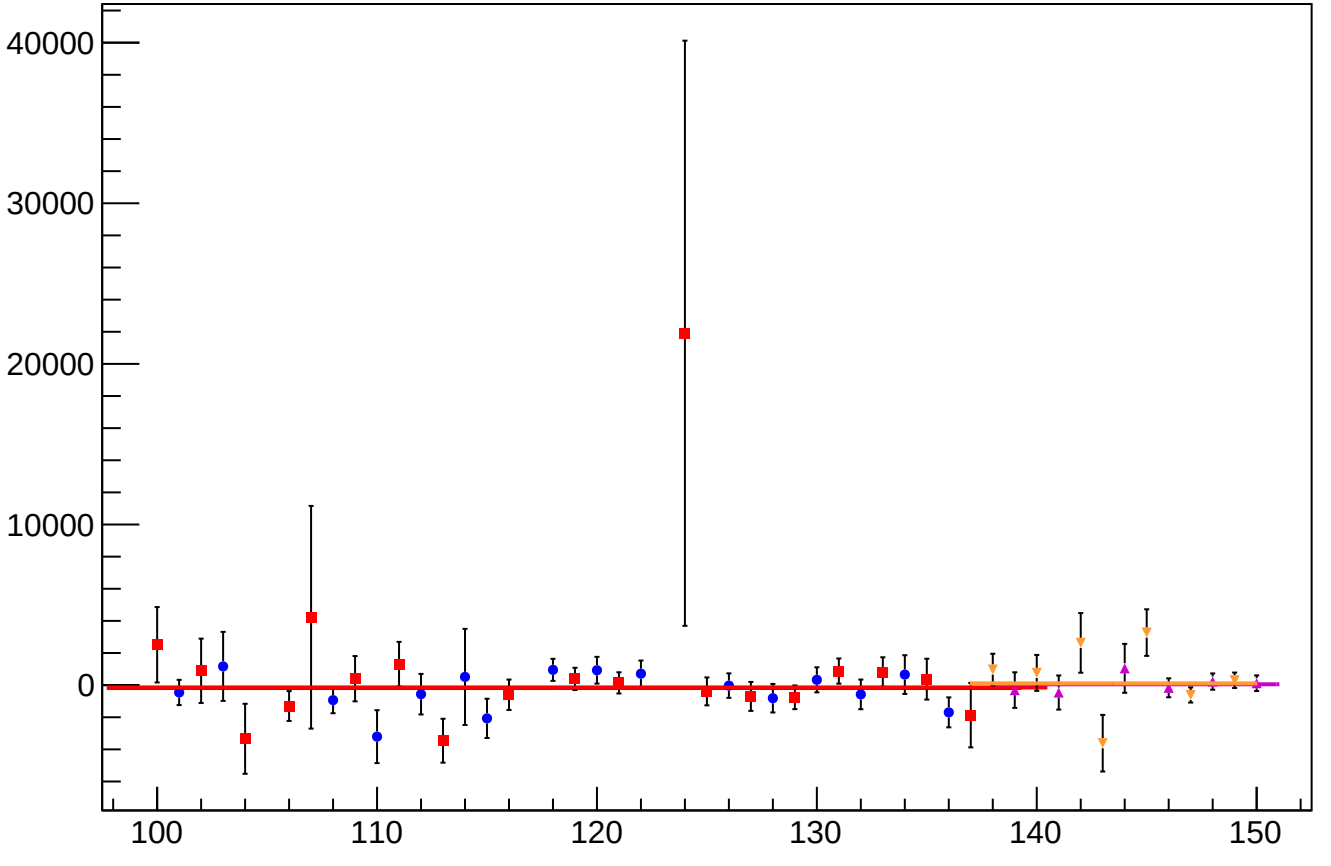
Right: 1966.980+/-0.371 $\chi^2$/NDF: 985475.7/34

In: 1892.050+/-0.383 $\chi^2$/NDF:679216.2/21

Out: 1838.534+/-0.370 $\chi^2$/NDF:608534.3/25

All: 1864.314+/-0.266 $\chi^2$/NDF: 1297847.2/47

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -170.773+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: 110.104+/-291.727 $\chi^2$/NDF:14.7/6

Right Out: -147.489+/-242.847 $\chi^2$/NDF: 20.1/18

Left In: 52.400+/-275.966 $\chi^2$/NDF:1.0/5

Left: 79.651+/-200.478 $\chi^2$/NDF: 15.8/12

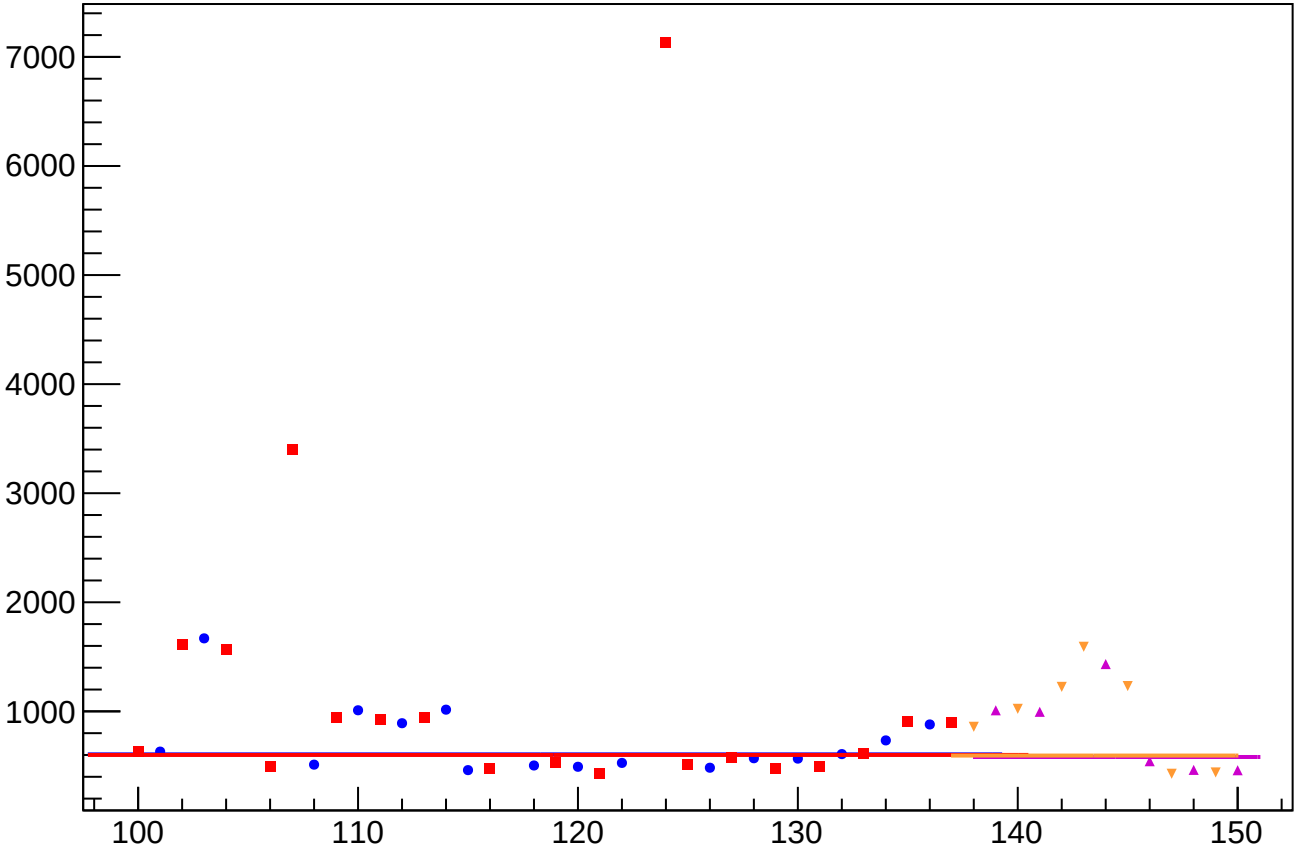
Right: -159.419+/-169.581 $\chi^2$/NDF: 37.3/34

In: -76.082+/-179.758 $\chi^2$/NDF:18.6/21

Out: -42.051+/-186.642 $\chi^2$/NDF:35.3/25

All: -59.706+/-129.473 $\chi^2$/NDF: 53.9/47

asym_at1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 605.429+/-0.168 $\chi^2$/NDF: 1162462.4/15

Left Out: 594.709+/-0.206 $\chi^2$/NDF:2152280.3/6

Right Out: 600.446+/-0.172 $\chi^2$/NDF: 2328531.9/18

Left In: 581.576+/-0.195 $\chi^2$/NDF:1471543.3/5

Left: 587.778+/-0.142 $\chi^2$/NDF: 3625962.7/12

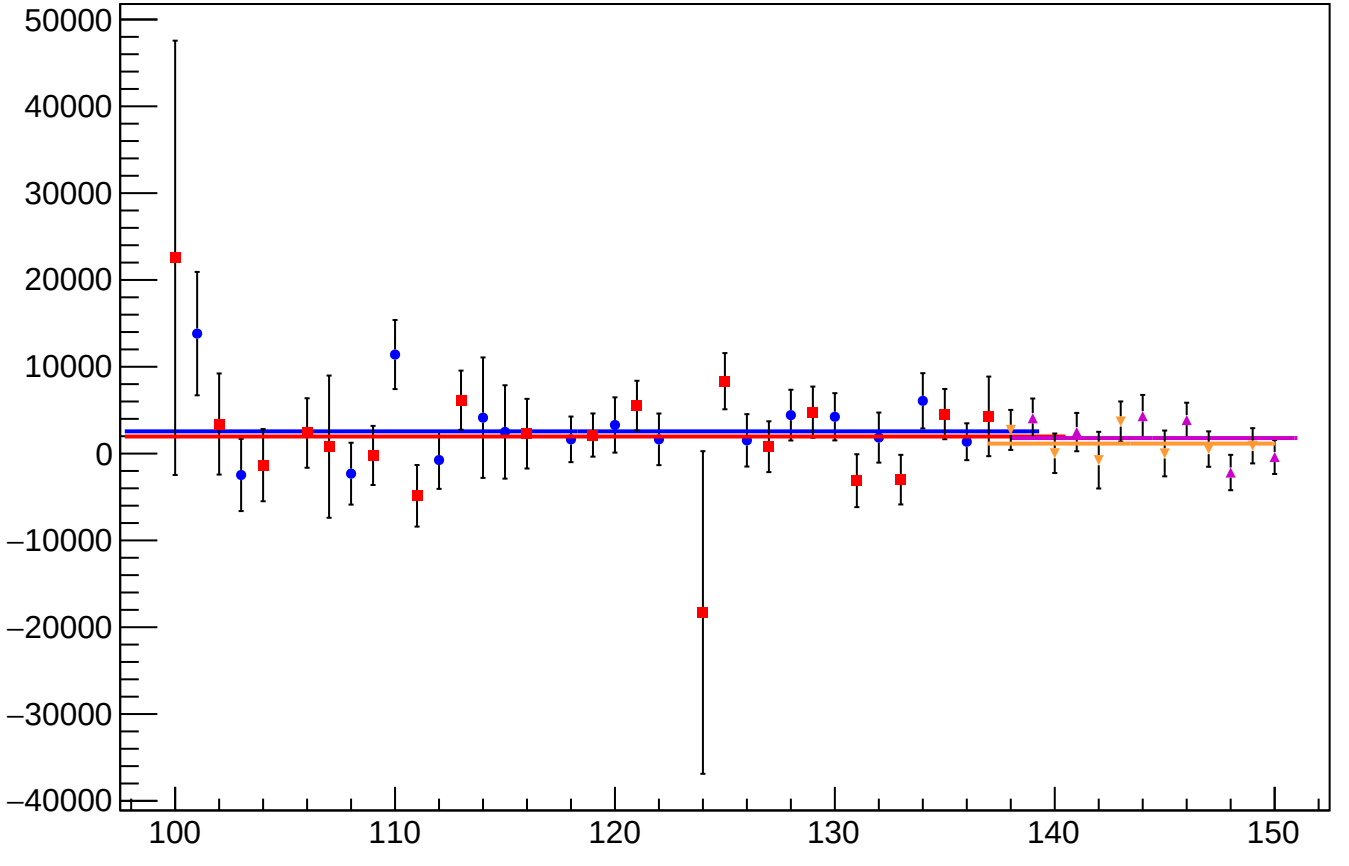
Right: 602.999+/-0.120 $\chi^2$/NDF: 3491425.6/34

In: 595.308+/-0.127 $\chi^2$/NDF:2642607.7/21

Out: 598.098+/-0.132 $\chi^2$/NDF:4481269.0/25

All: 596.650+/-0.092 $\chi^2$/NDF: 7124108.6/47

# asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2560.971+/-809.658 $\chi^2$/NDF: 14.6/15

Left Out: 1151.929+/-880.580 $\chi^2$/NDF:2.6/6

Right Out: 1966.731+/-818.839 $\chi^2$/NDF: 21.6/18

Left In: 1788.904+/-871.722 $\chi^2$/NDF:8.3/5

Left: 1473.637+/-619.509 $\chi^2$/NDF: 11.1/12

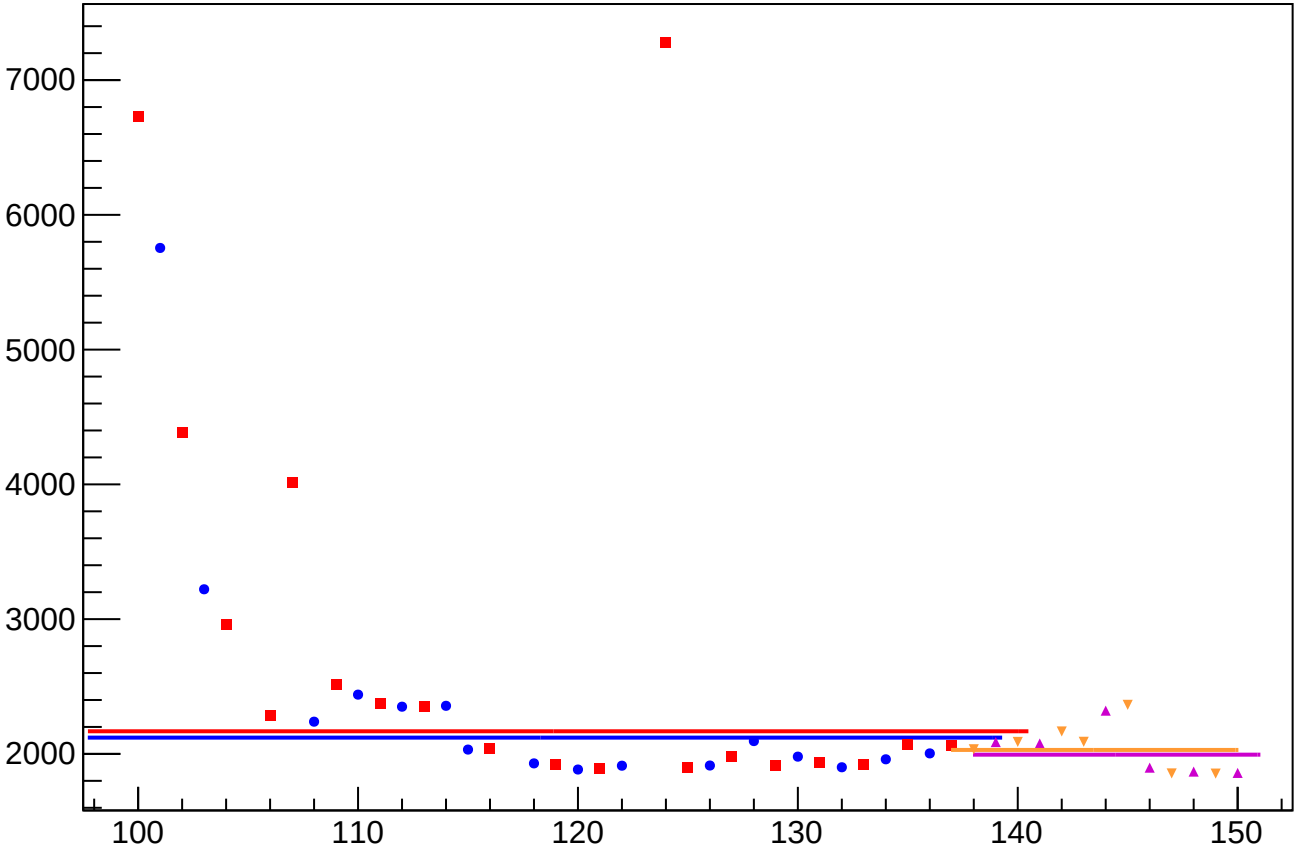
Right: 2267.201+/-575.733 $\chi^2$/NDF: 36.5/34

In: 2203.397+/-593.244 $\chi^2$/NDF:23.3/21

Out: 1588.894+/-599.647 $\chi^2$/NDF:24.6/25

All: 1899.444+/-421.732 $\chi^2$/NDF: 48.4/47

# asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 2120.778+/-0.573 $\chi^2$/NDF: 759969.1/15

Left Out: 2029.390+/-0.623 $\chi^2$/NDF:68070.8/6

Right Out: 2167.840+/-0.579 $\chi^2$/NDF: 823925.5/18

Left In: 1994.266+/-0.616 $\chi^2$/NDF:63505.7/5

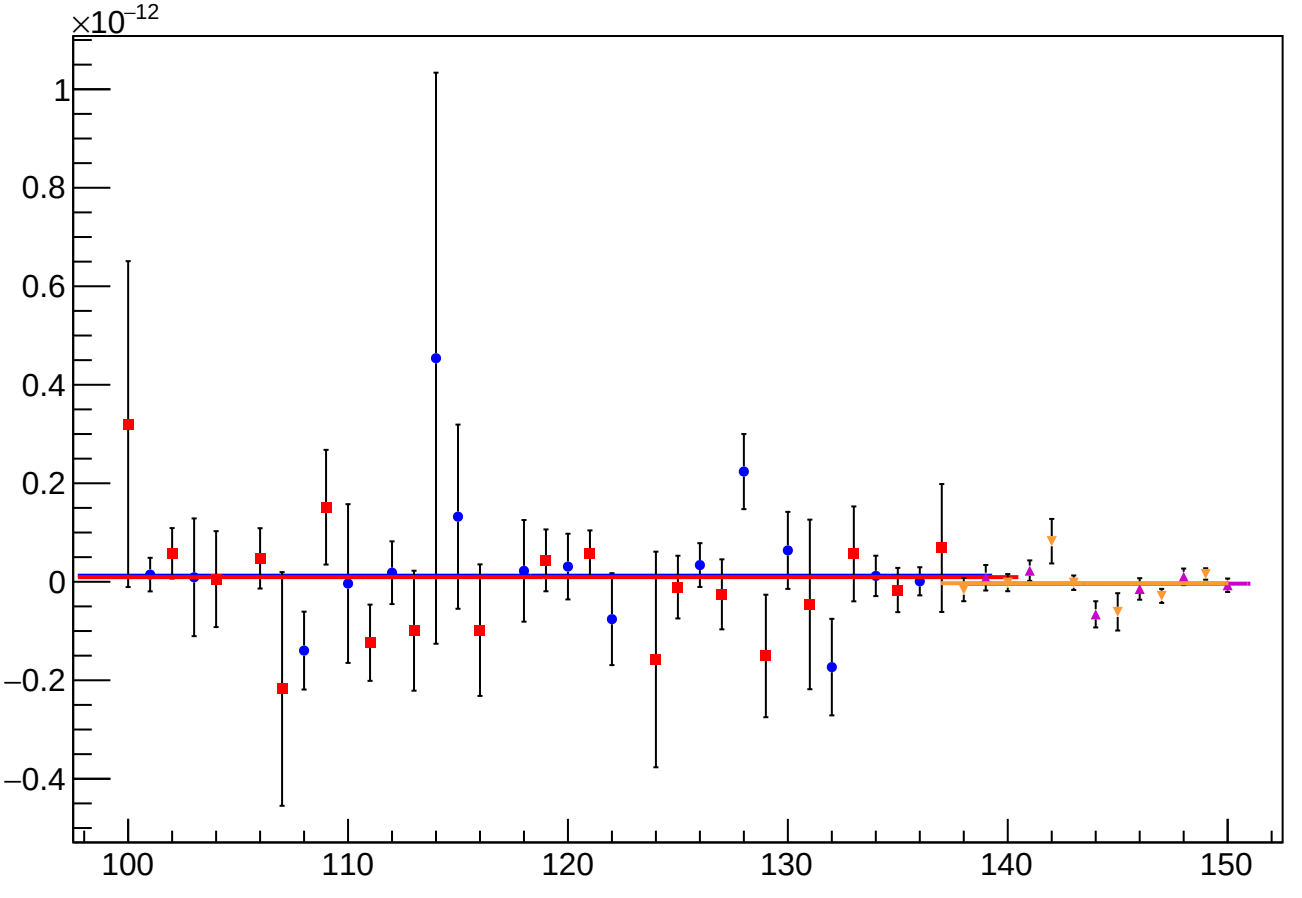
Left: 2011.650+/-0.438 $\chi^2$/NDF: 133183.5/12

Right: 2144.044+/-0.407 $\chi^2$/NDF: 1587235.2/34

In: 2062.185+/-0.419 $\chi^2$/NDF:846090.0/21

Out: 2103.638+/-0.424 $\chi^2$/NDF:918510.3/25

All: 2082.689+/-0.298 $\chi^2$/NDF: 1769430.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.3/5

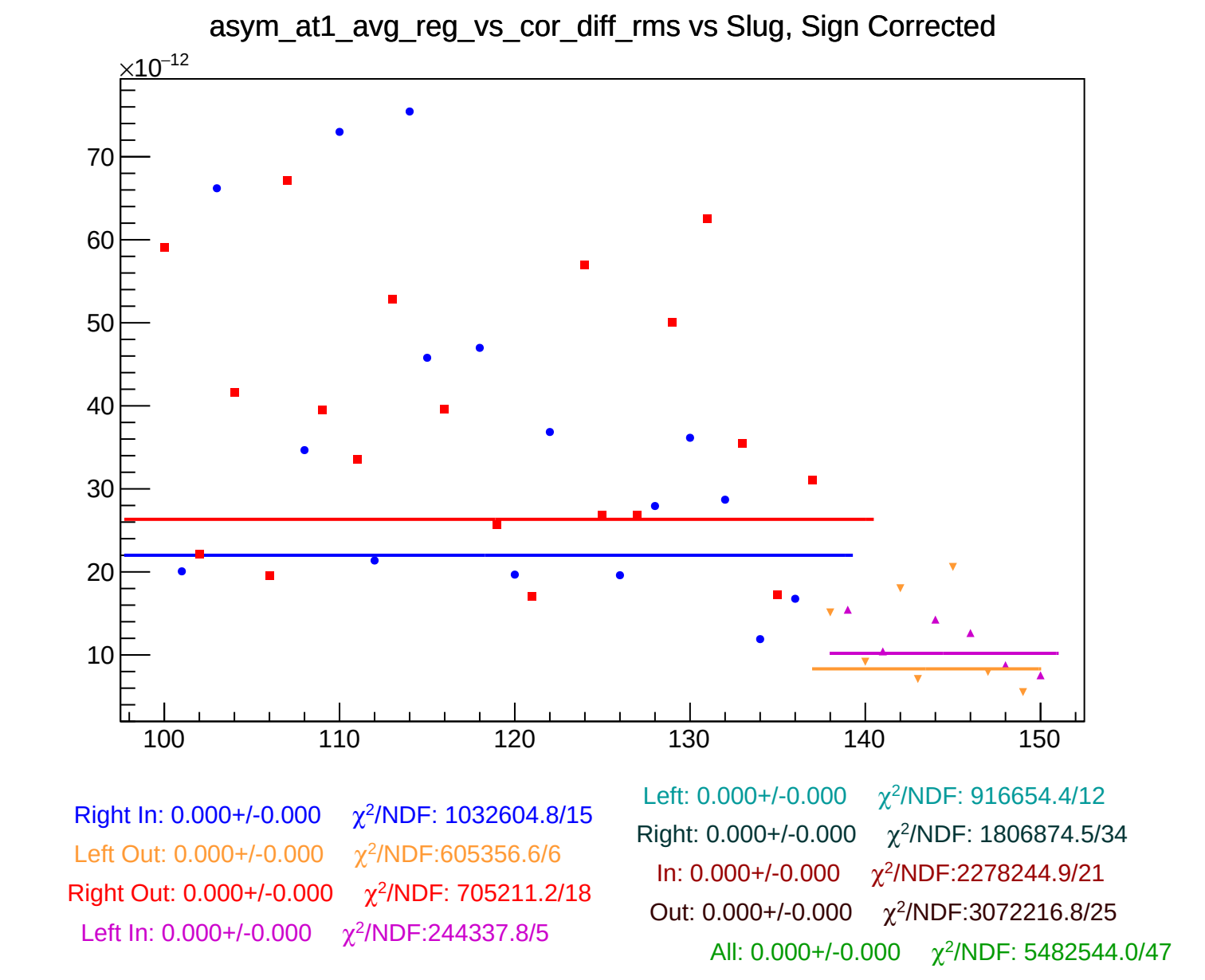
Left: -0.000+/-0.000 $\chi^2$/NDF: 20.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.6/34

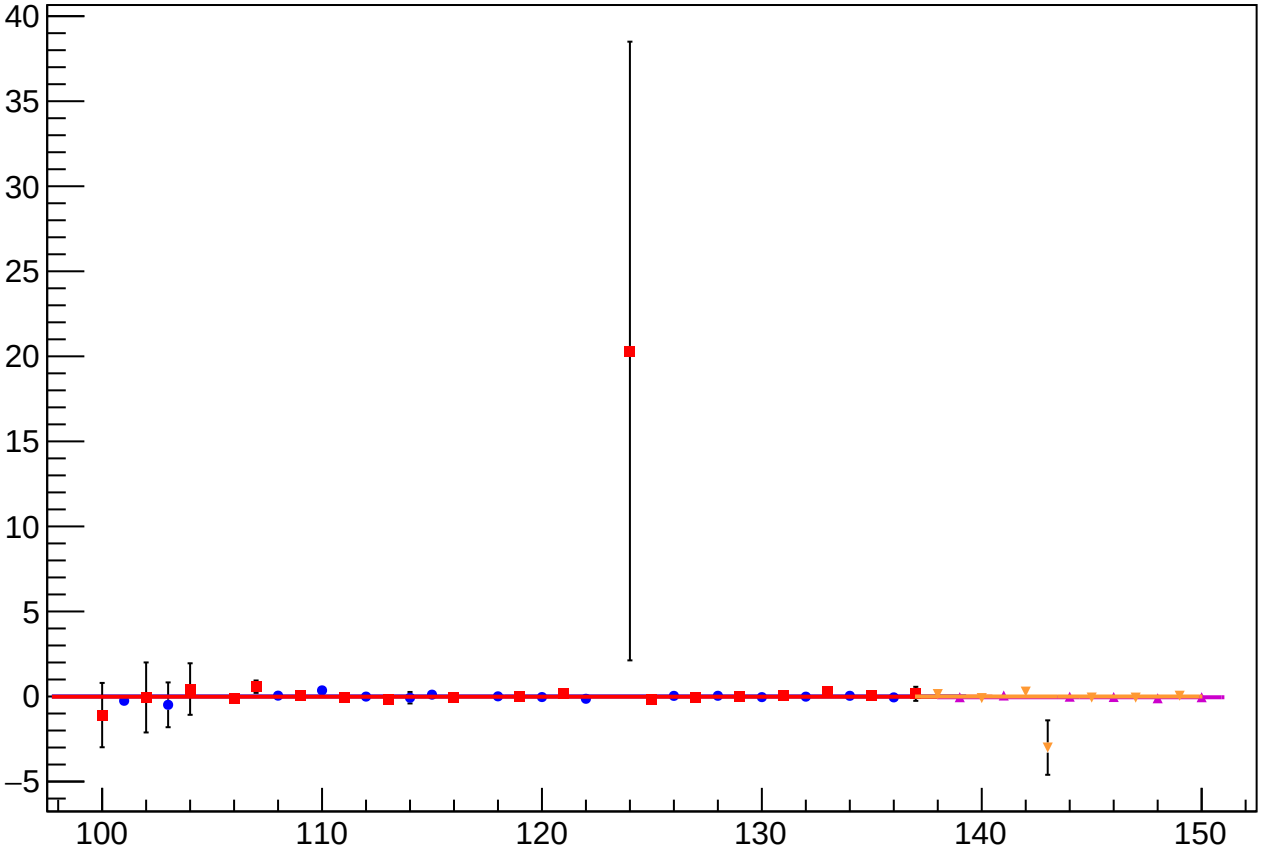
In: -0.000+/-0.000 $\chi^2$/NDF:27.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 53.4/47


asym_at1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1032604.8/15
Left Out: 0.000+/-0.000 χ²/NDF:605356.6/6
Right Out: 0.000+/-0.000 χ²/NDF: 705211.2/18
Left In: 0.000+/-0.000 χ²/NDF:244337.8/5
Left: 0.000+/-0.000 χ²/NDF: 916654.4/12
Right: 0.000+/-0.000 χ²/NDF: 1806874.5/34
In: 0.000+/-0.000 χ²/NDF:2278244.9/21
Out: 0.000+/-0.000 χ²/NDF:3072216.8/25
All: 0.000+/-0.000 χ²/NDF: 5482544.0/47

asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.029 $\chi^2$/NDF:13.3/6

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.044+/-0.024 $\chi^2$/NDF:3.7/5

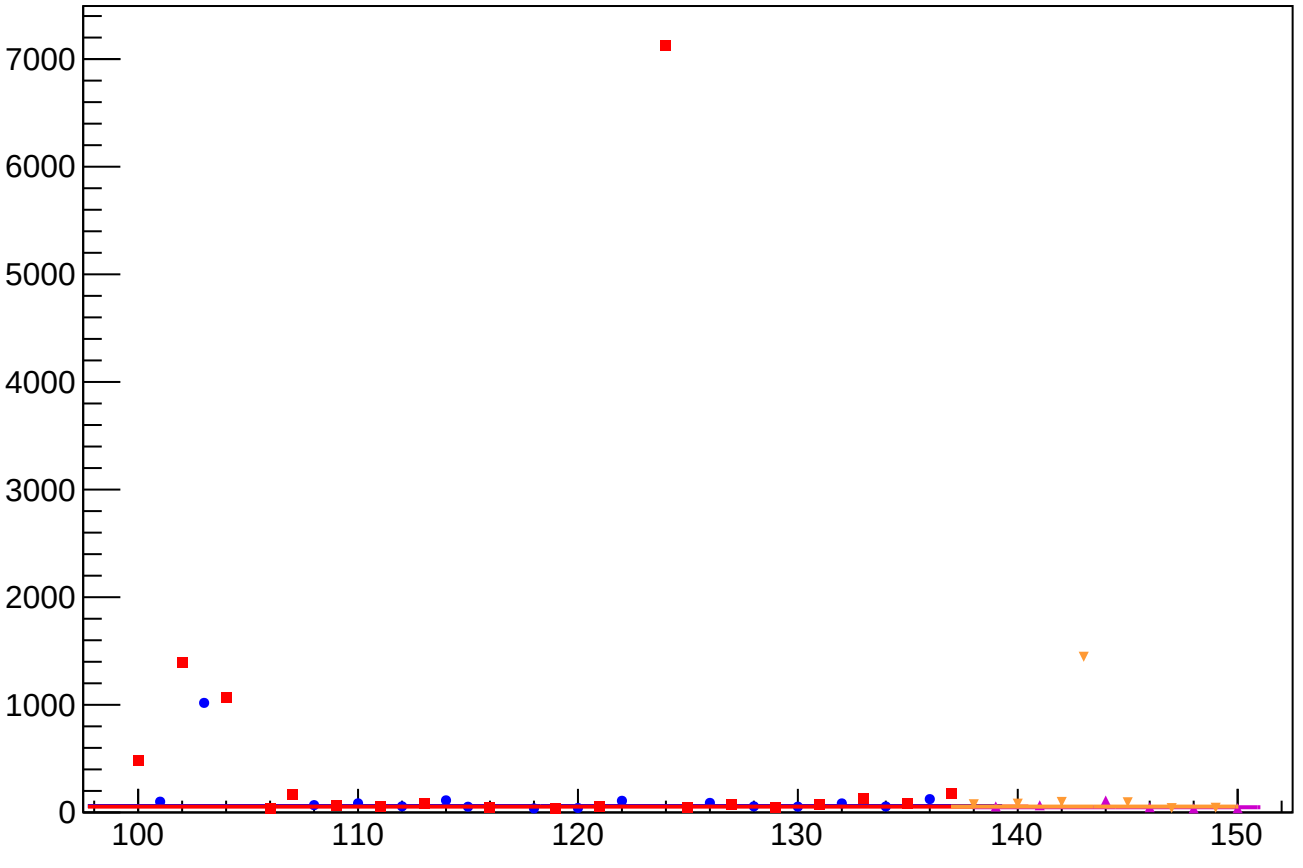
Left: -0.026+/-0.018 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.023+/-0.018 $\chi^2$/NDF:16.9/21

Out: -0.007+/-0.019 $\chi^2$/NDF:31.1/25

All: -0.016+/-0.013 $\chi^2$/NDF: 48.3/47




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 54.476+/-0.020 $\chi^2$/NDF:2459436.4/6

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 48.441+/-0.017 $\chi^2$/NDF:864338.9/5

Left: 50.895+/-0.013 $\chi^2$/NDF: 3375475.7/12

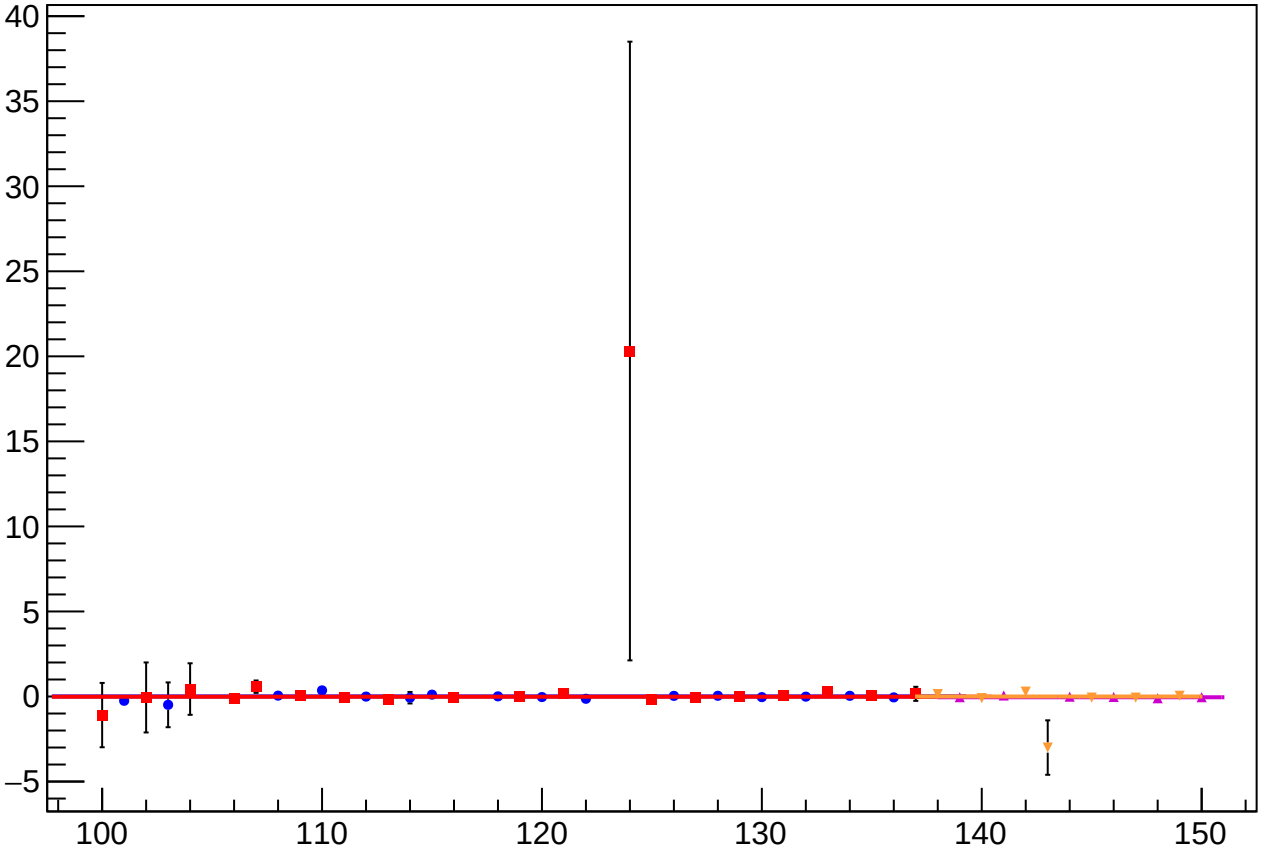
Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 53.516+/-0.013 $\chi^2$/NDF:3605150.9/21

Out: 54.349+/-0.014 $\chi^2$/NDF:5981085.6/25

All: 53.901+/-0.009 $\chi^2$/NDF: 9588253.5/47

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.029 $\chi^2$/NDF:13.3/6

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.044+/-0.024 $\chi^2$/NDF:3.7/5

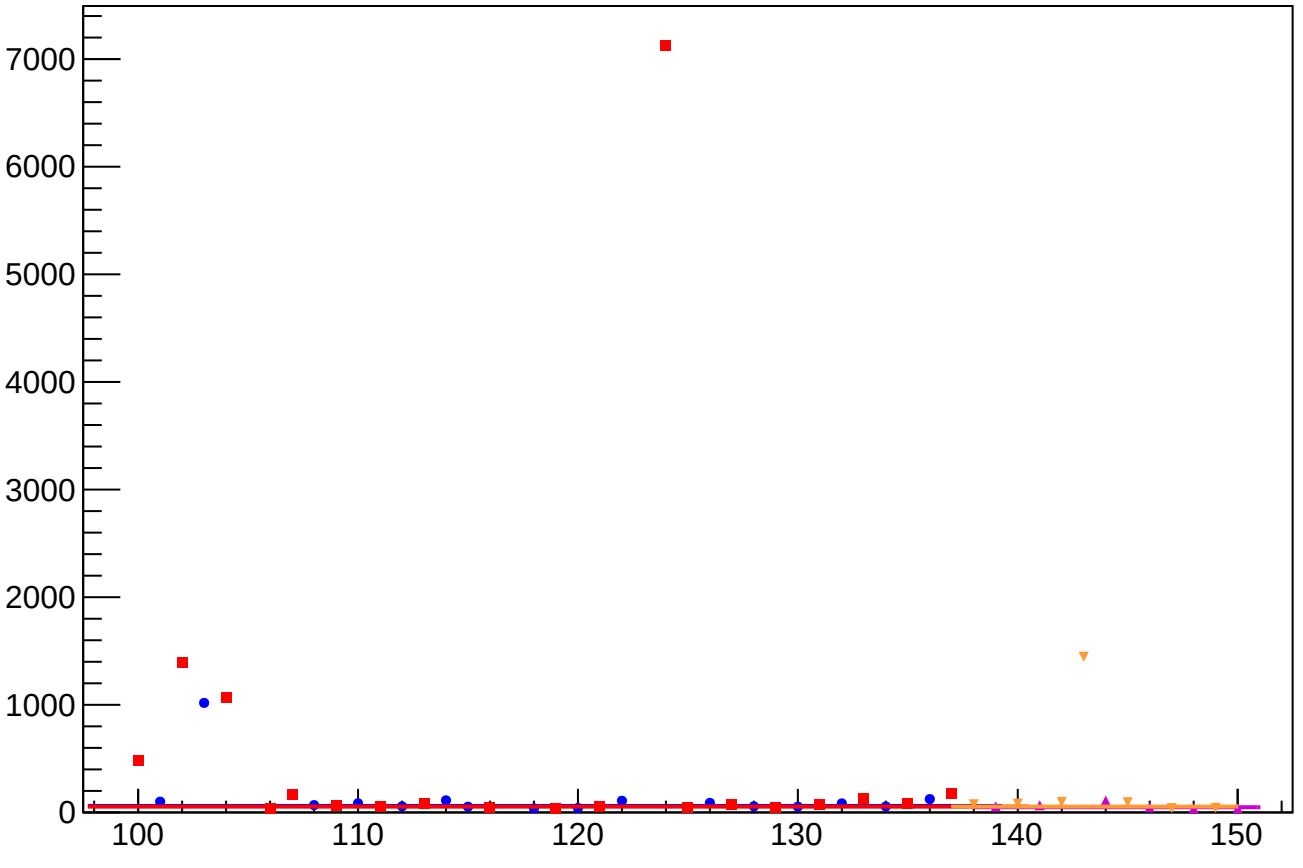
Left: -0.026+/-0.018 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.023+/-0.018 $\chi^2$/NDF:16.9/21

Out: -0.007+/-0.019 $\chi^2$/NDF:31.1/25

All: -0.016+/-0.013 $\chi^2$/NDF: 48.3/47




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 54.476+/-0.020 $\chi^2$/NDF:2459436.4/6

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 48.441+/-0.017 $\chi^2$/NDF:864338.9/5

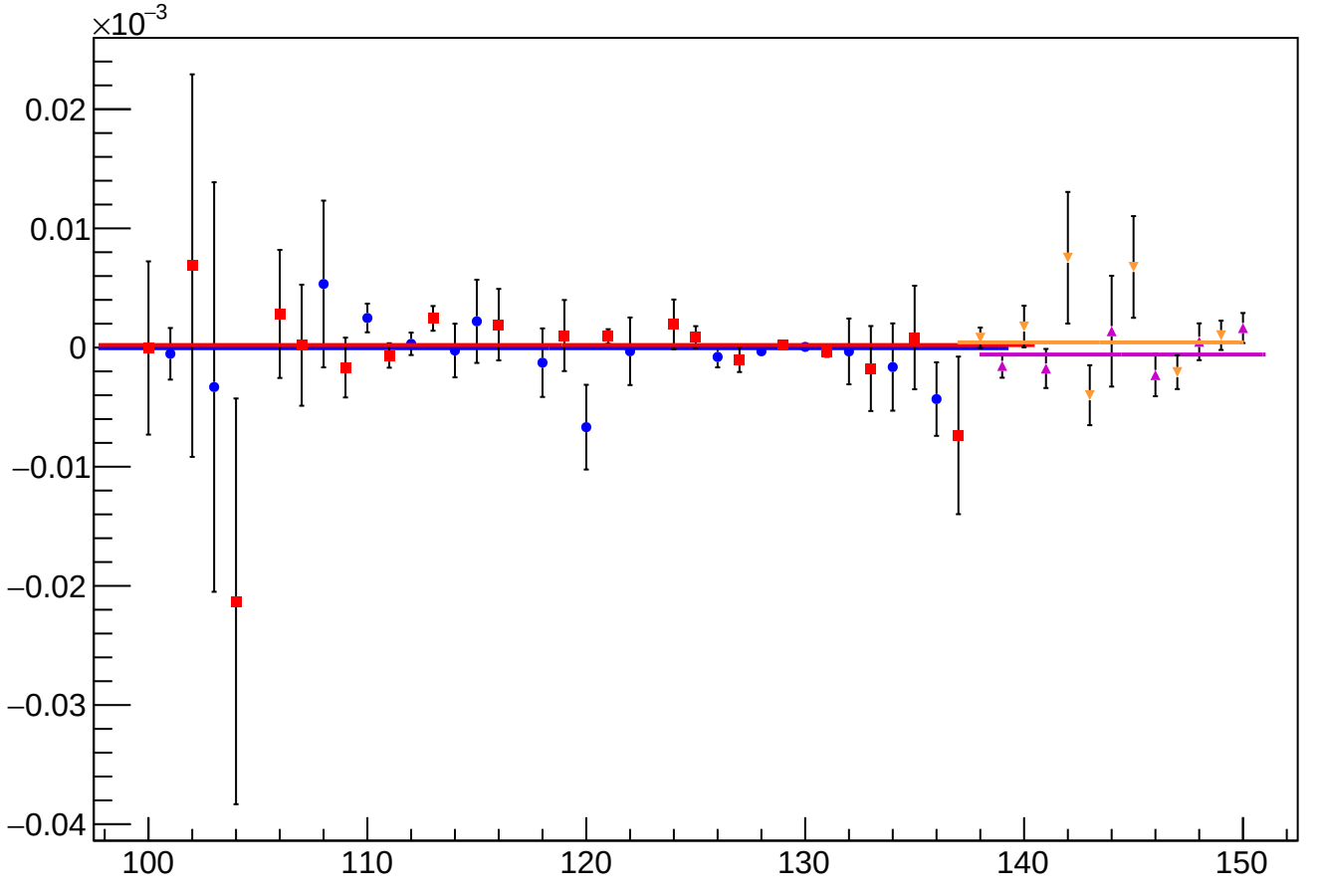
Left: 50.895+/-0.013 $\chi^2$/NDF: 3375475.7/12

Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 53.516+/-0.013 $\chi^2$/NDF:3605150.9/21

Out: 54.349+/-0.014 $\chi^2$/NDF:5981085.6/25

All: 53.901+/-0.009 $\chi^2$/NDF: 9588253.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.1/5

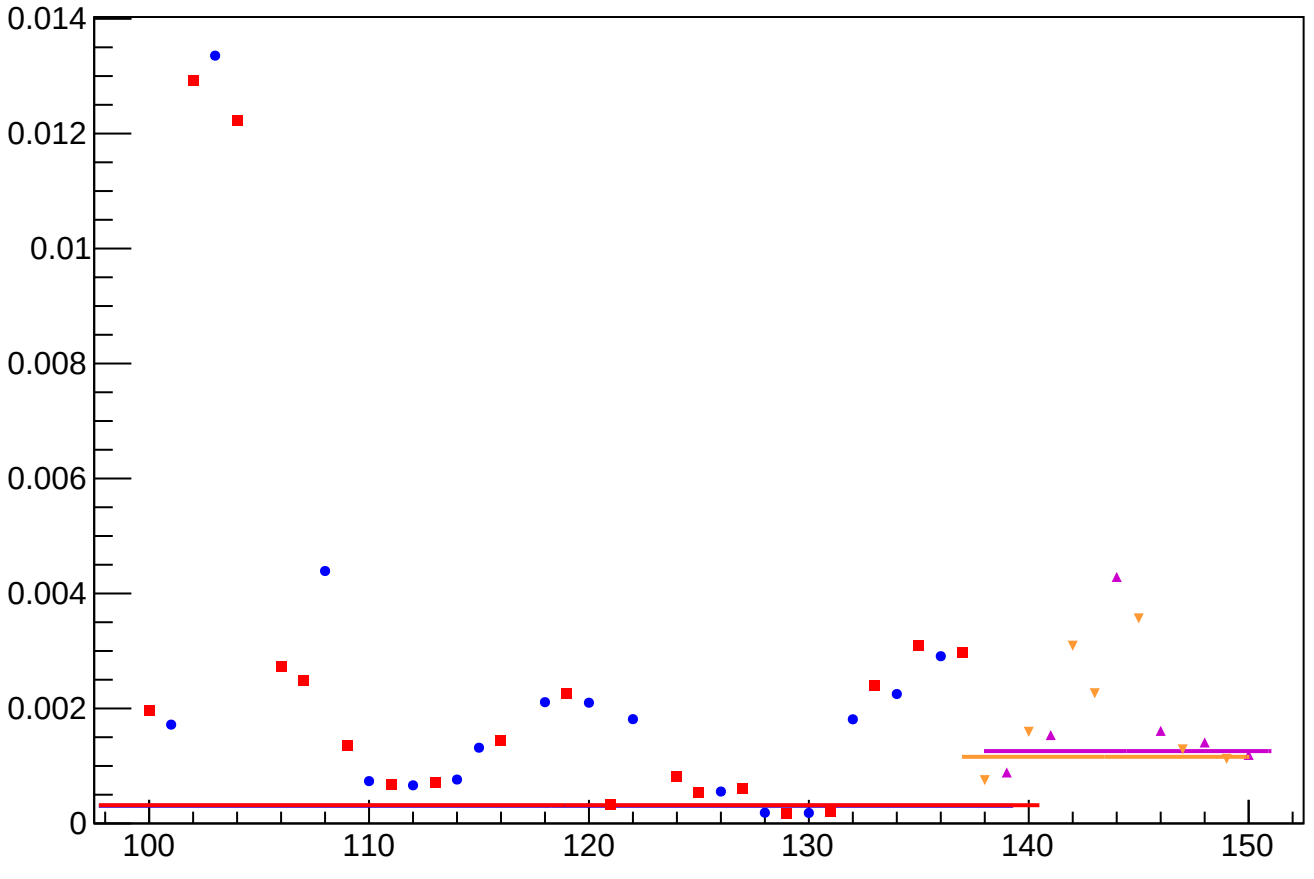
Left: -0.000+/-0.000 $\chi^2$/NDF: 18.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:26.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 48.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8756212.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1860216.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8015537.3/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1289012.8/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 3178533.0/12

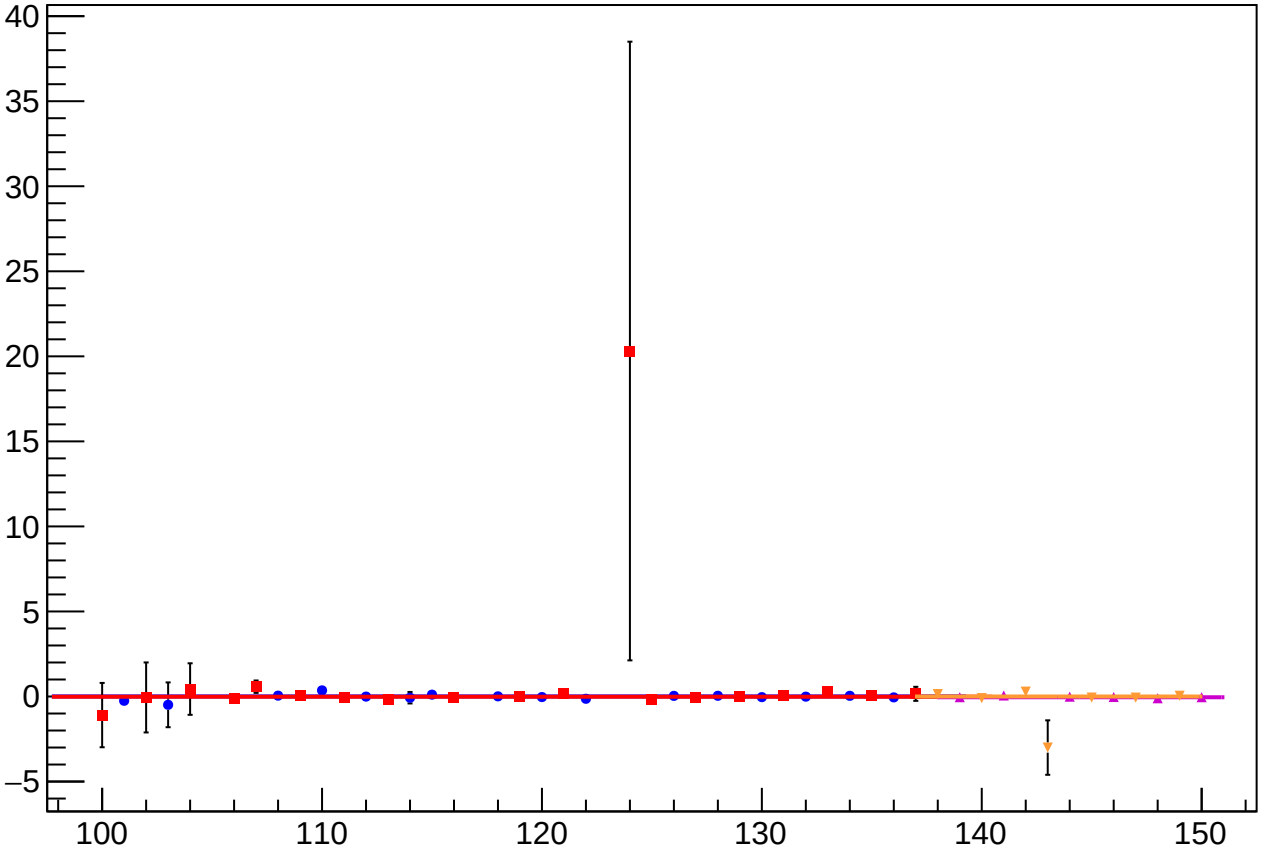
Right: 0.000+/-0.000 $\chi^2$/NDF: 16773891.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:14617892.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:13810952.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 28429806.2/47

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.029 $\chi^2$/NDF:13.3/6

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.044+/-0.024 $\chi^2$/NDF:3.7/5

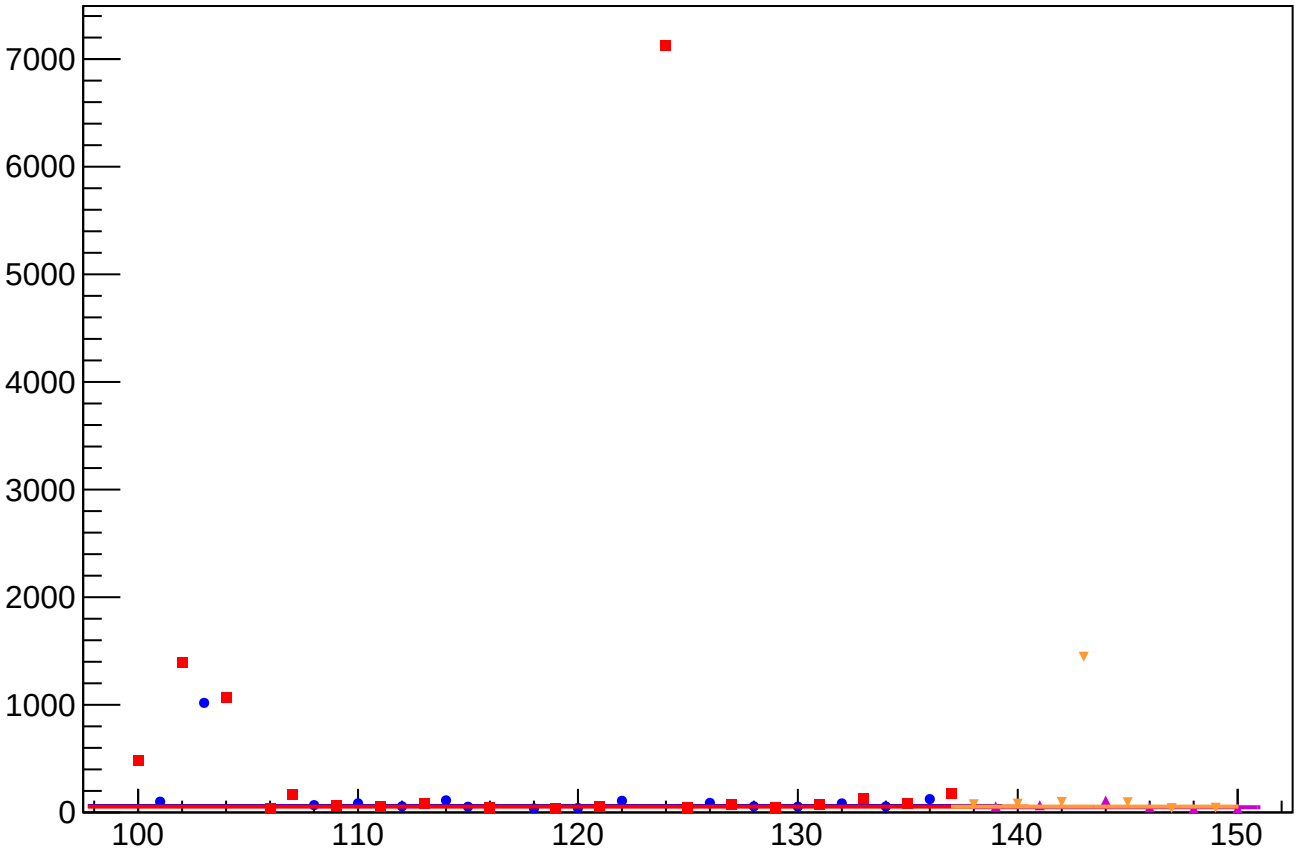
Left: -0.026+/-0.018 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.023+/-0.018 $\chi^2$/NDF:16.9/21

Out: -0.007+/-0.019 $\chi^2$/NDF:31.1/25

All: -0.016+/-0.013 $\chi^2$/NDF: 48.3/47




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 54.476+/-0.020 $\chi^2$/NDF:2459416.6/6

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 48.441+/-0.017 $\chi^2$/NDF:864341.6/5

Left: 50.895+/-0.013 $\chi^2$/NDF: 3375464.7/12

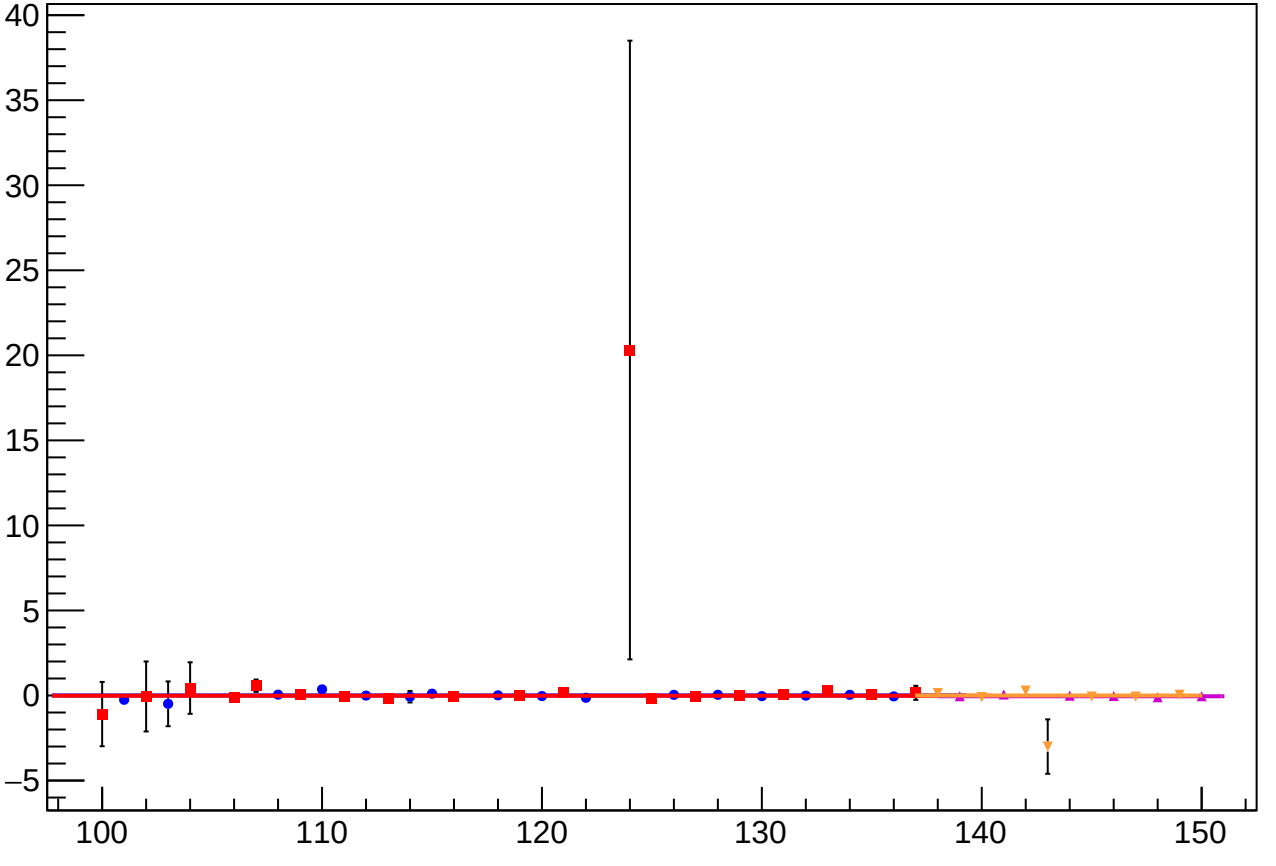
Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 53.516+/-0.013 $\chi^2$/NDF:3605163.7/21

Out: 54.349+/-0.014 $\chi^2$/NDF:5981126.6/25

All: 53.900+/-0.009 $\chi^2$/NDF: 9588305.7/47

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.029 $\chi^2$/NDF:13.3/6

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.044+/-0.024 $\chi^2$/NDF:3.7/5

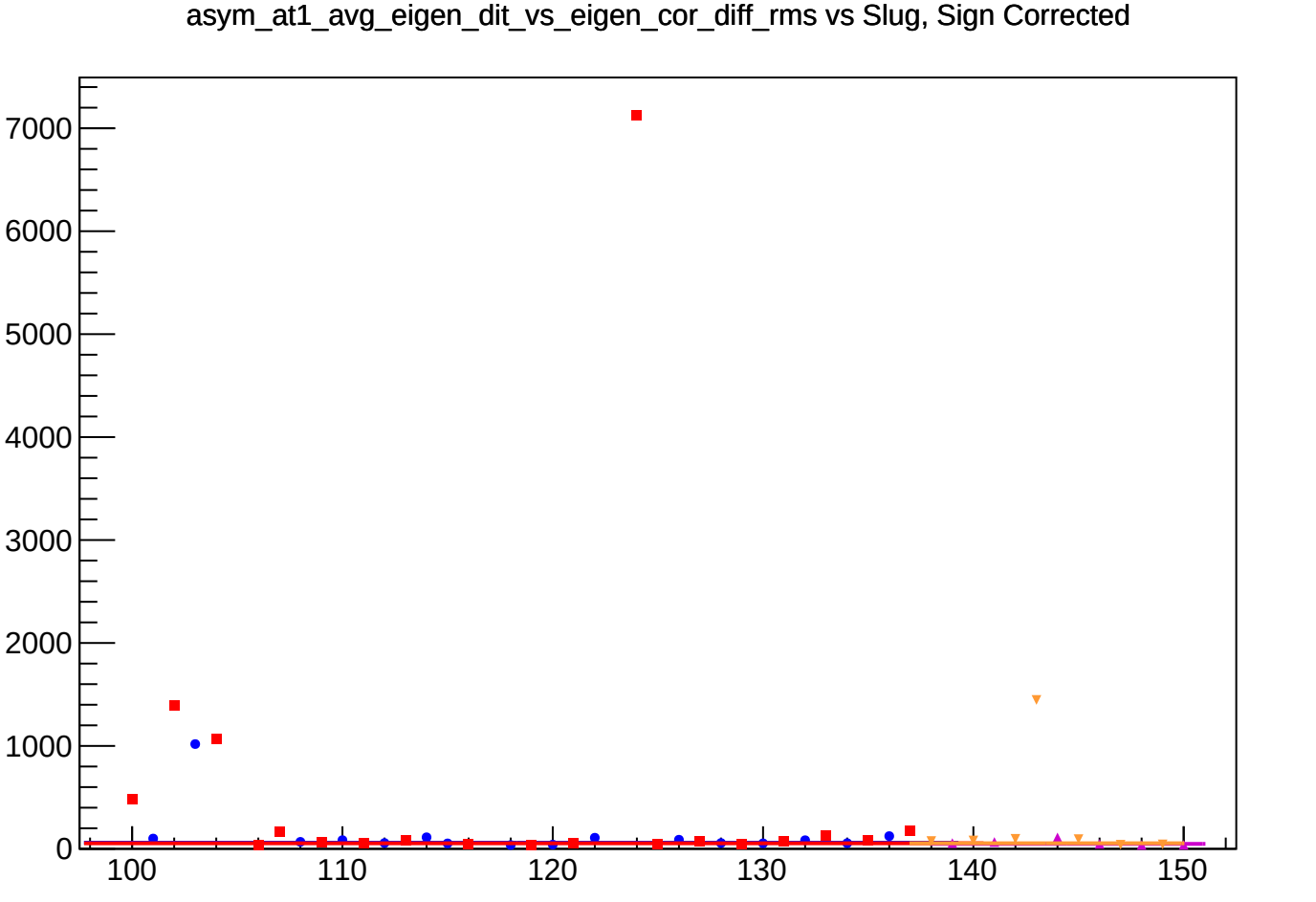
Left: -0.026+/-0.018 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.023+/-0.018 $\chi^2$/NDF:16.9/21

Out: -0.007+/-0.019 $\chi^2$/NDF:31.1/25

All: -0.016+/-0.013 $\chi^2$/NDF: 48.3/47




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 54.476+/-0.020 $\chi^2$/NDF:2459416.6/6

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 48.441+/-0.017 $\chi^2$/NDF:864341.6/5

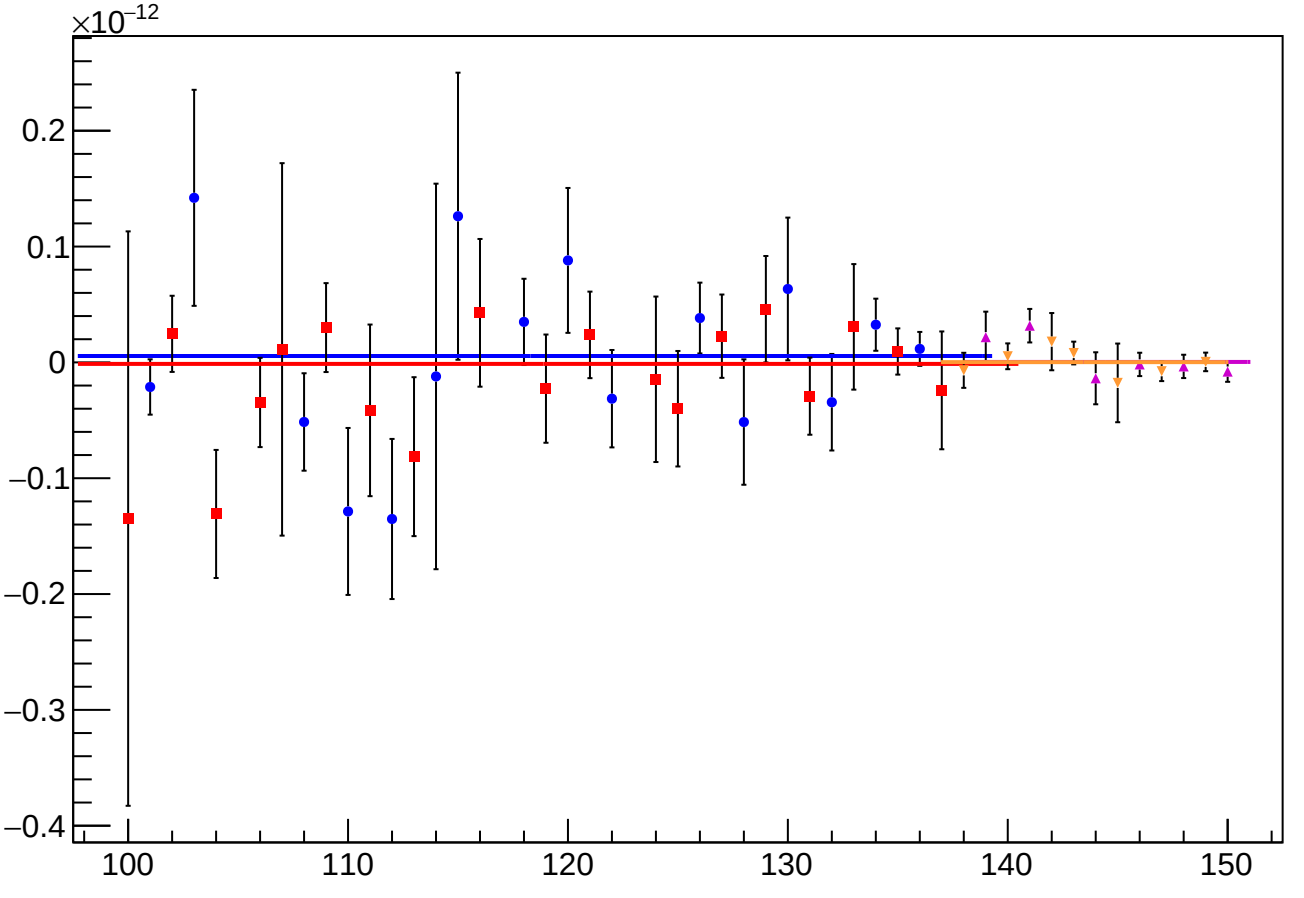
Left: 50.895+/-0.013 $\chi^2$/NDF: 3375464.7/12

Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 53.516+/-0.013 $\chi^2$/NDF:3605163.7/21

Out: 54.349+/-0.014 $\chi^2$/NDF:5981126.6/25

All: 53.900+/-0.009 $\chi^2$/NDF: 9588305.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.1/5

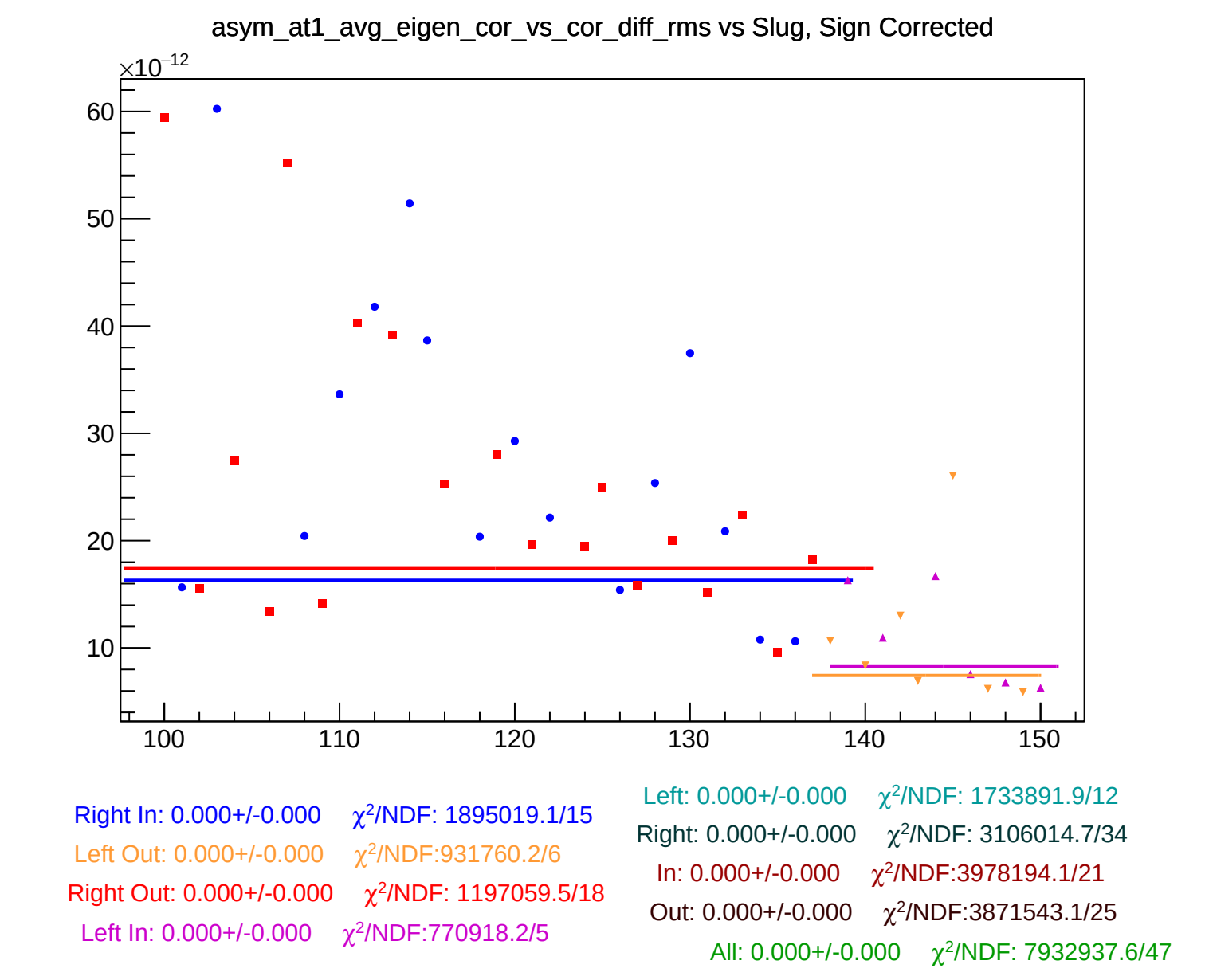
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.8/12

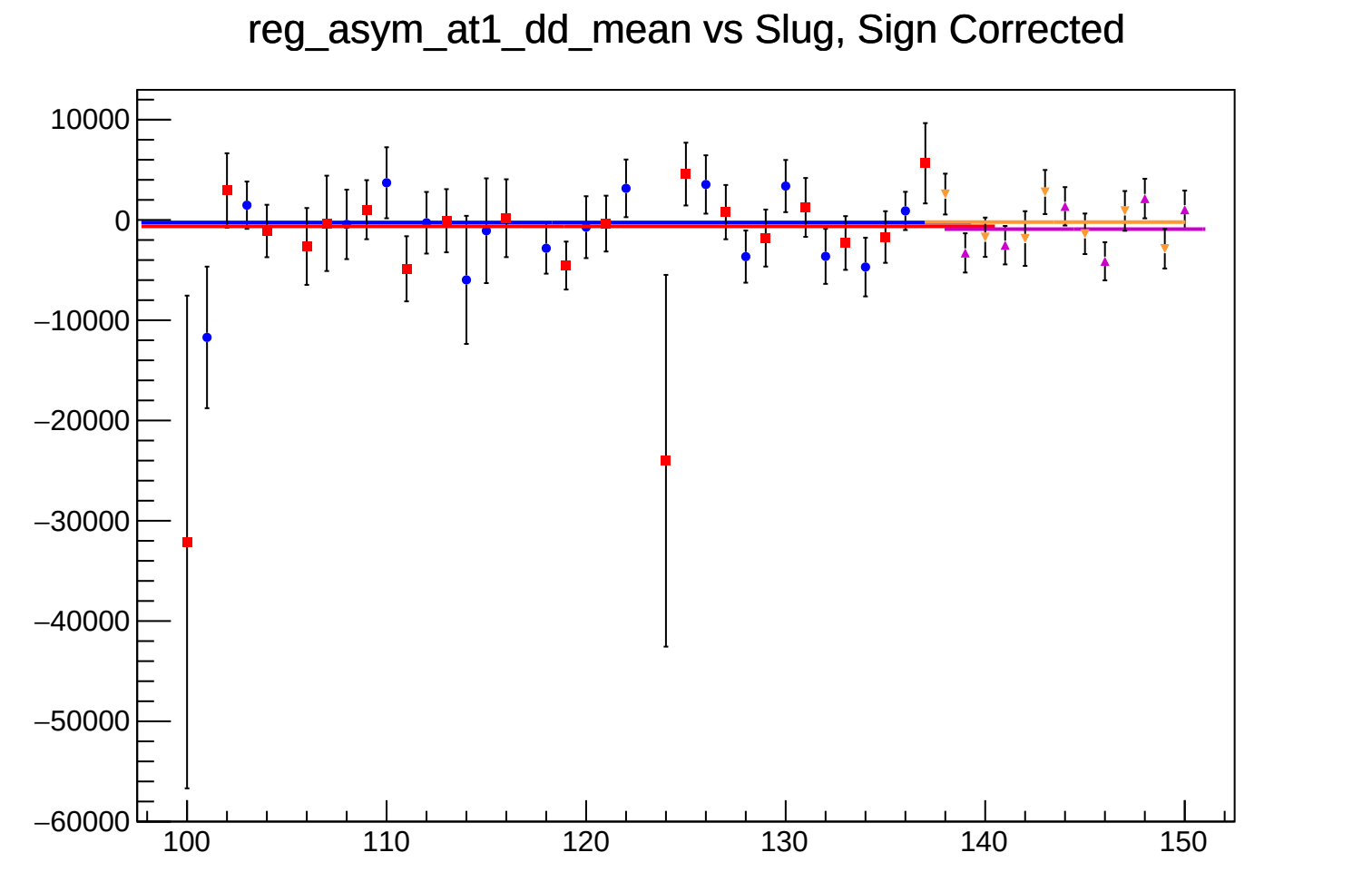
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:30.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:17.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 47.1/47


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1895019.1/15
Left Out: 0.000+/-0.000 χ²/NDF:931760.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 1197059.5/18
Left In: 0.000+/-0.000 χ²/NDF:770918.2/5
Left: 0.000+/-0.000 χ²/NDF: 1733891.9/12
Right: 0.000+/-0.000 χ²/NDF: 3106014.7/34
In: 0.000+/-0.000 χ²/NDF:3978194.1/21
Out: 0.000+/-0.000 χ²/NDF:3871543.1/25
All: 0.000+/-0.000 χ²/NDF: 7932937.6/47




Right In: -251.297+/-735.111 $\chi^2$/NDF: 17.3/15

Left Out: -211.847+/-791.291 $\chi^2$/NDF:7.1/6

Right Out: -636.082+/-735.477 $\chi^2$/NDF: 15.9/18

Left In: -915.504+/-786.741 $\chi^2$/NDF:9.9/5

Left: -565.705+/-557.912 $\chi^2$/NDF: 17.4/12

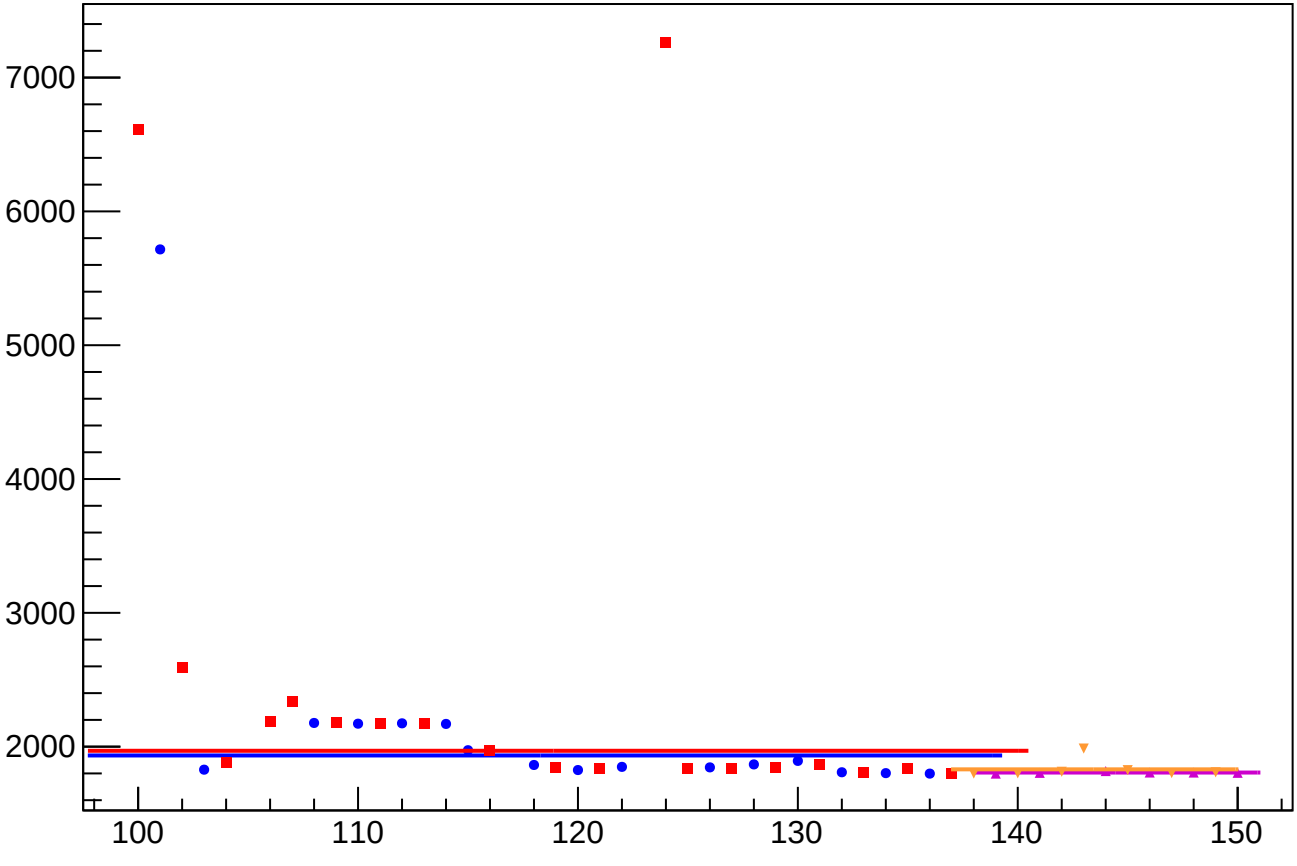
Right: -443.594+/-519.932 $\chi^2$/NDF: 33.3/34

In: -560.893+/-537.128 $\chi^2$/NDF:27.5/21

Out: -439.453+/-538.713 $\chi^2$/NDF:23.2/25

All: -500.352+/-380.366 $\chi^2$/NDF: 50.7/47

# reg_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639920.0/15

Left Out: 1830.466+/-0.560 $\chi^2$/NDF:11699.1/6

Right Out: 1969.204+/-0.520 $\chi^2$/NDF: 378378.8/18

Left In: 1806.586+/-0.556 $\chi^2$/NDF:104.7/5

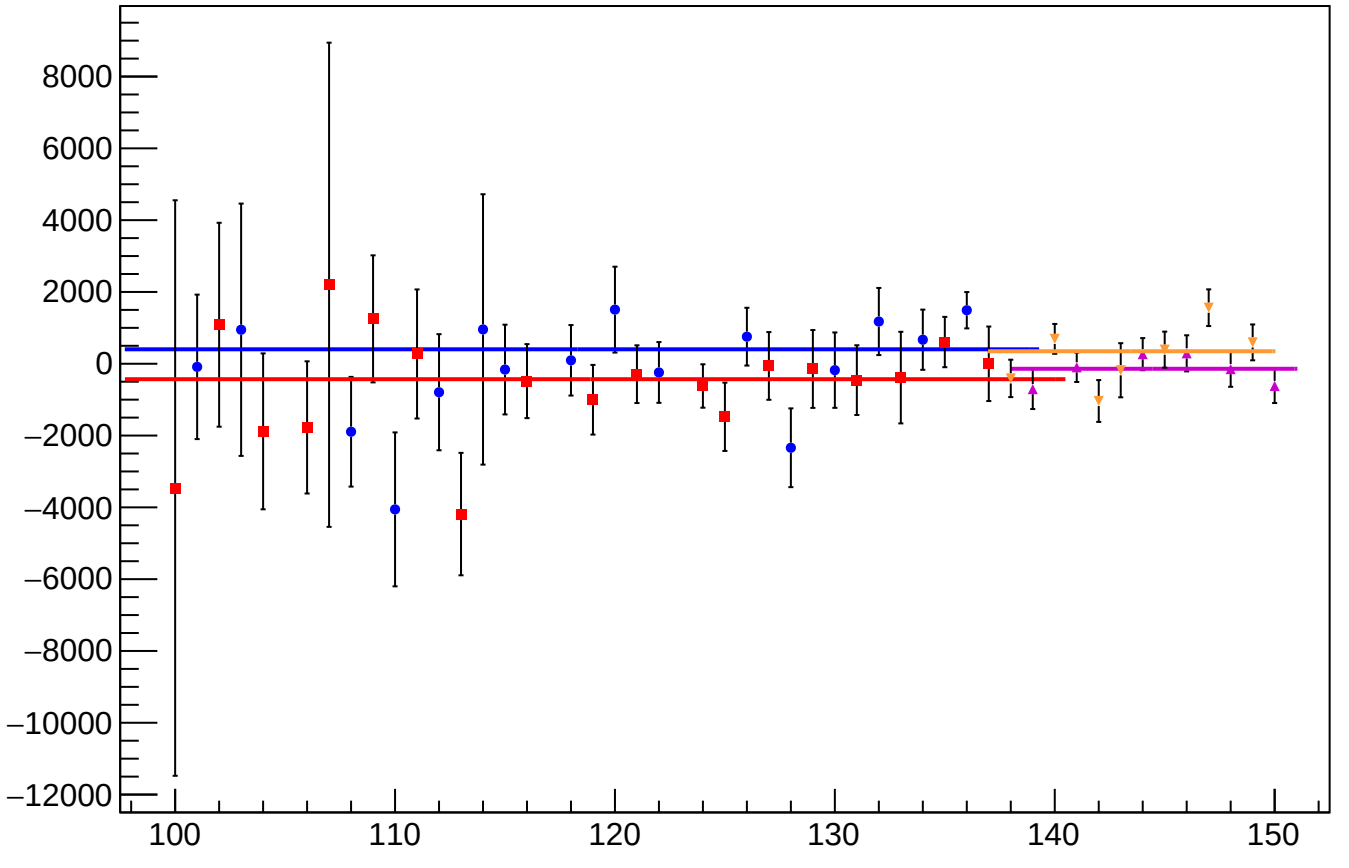
Left: 1818.457+/-0.395 $\chi^2$/NDF: 12719.8/12

Right: 1951.702+/-0.368 $\chi^2$/NDF: 1020563.0/34

In: 1874.726+/-0.380 $\chi^2$/NDF:668125.9/21

Out: 1904.900+/-0.381 $\chi^2$/NDF:423063.7/25

All: 1889.769+/-0.269 $\chi^2$/NDF: 1094336.1/47




Right In: 402.626+/-258.574 $\chi^2$/NDF: 21.1/15

Left Out: 348.191+/-196.238 $\chi^2$/NDF:14.8/6

Right Out: -430.066+/-252.823 $\chi^2$/NDF: 11.7/18

Left In: -140.031+/-193.516 $\chi^2$/NDF:3.6/5

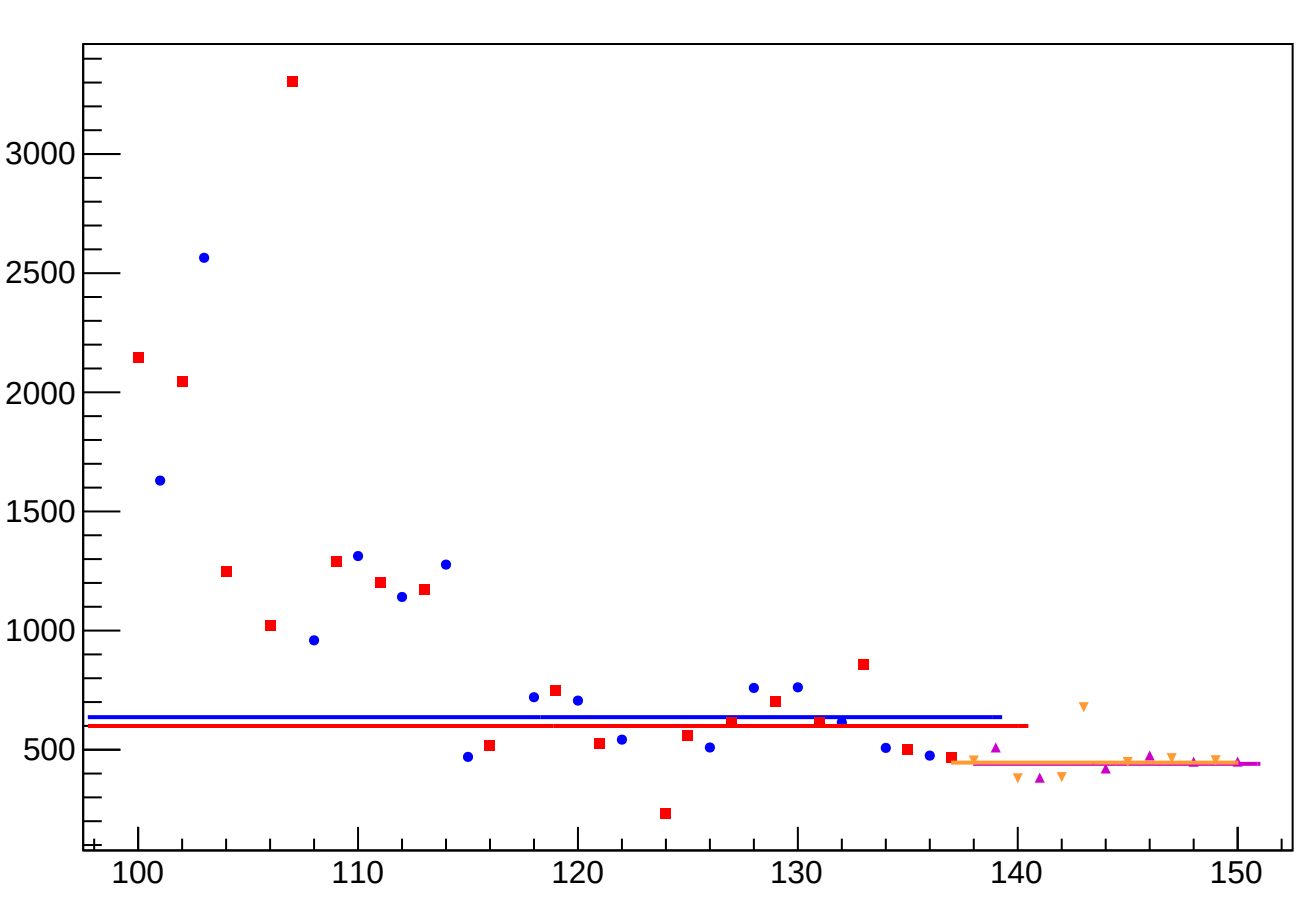
Left: 100.671+/-137.789 $\chi^2$/NDF: 21.6/12

Right: -23.083+/-180.772 $\chi^2$/NDF: 38.2/34

In: 54.791+/-154.932 $\chi^2$/NDF:27.6/21

Out: 55.596+/-155.020 $\chi^2$/NDF:32.5/25

All: 55.193+/-109.585 $\chi^2$/NDF: 60.1/47




Right In: 636.700+/-0.183 $\chi^2$/NDF: 2066891.4/15

Left Out: 445.939+/-0.139 $\chi^2$/NDF:266460.2/6

Right Out: 599.631+/-0.179 $\chi^2$/NDF: 2944100.6/18

Left In: 440.787+/-0.137 $\chi^2$/NDF:85880.8/5

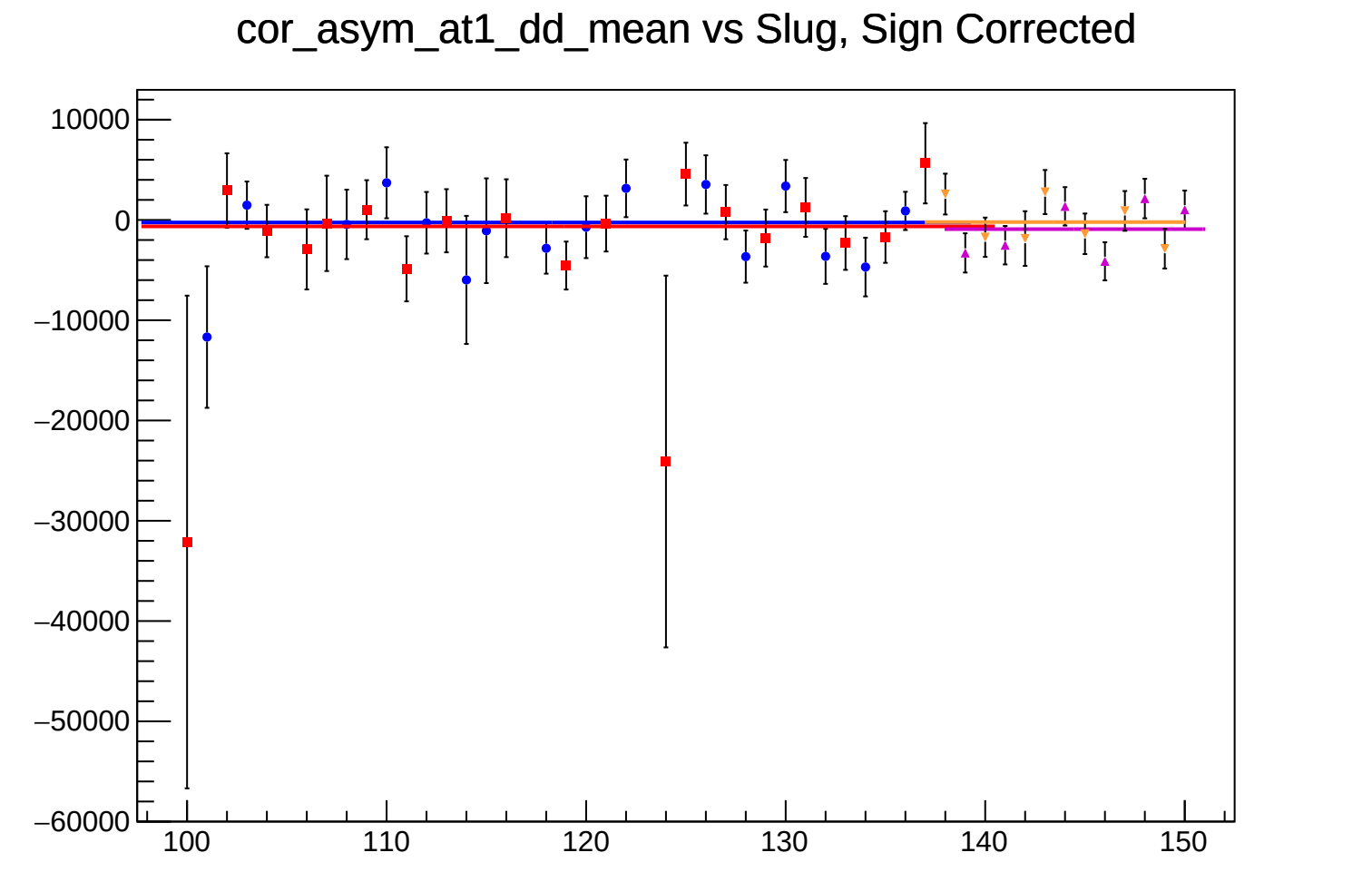
Left: 443.327+/-0.097 $\chi^2$/NDF: 353039.9/12

Right: 617.749+/-0.128 $\chi^2$/NDF: 5032005.8/34

In: 511.123+/-0.110 $\chi^2$/NDF:2888697.8/21

Out: 503.721+/-0.110 $\chi^2$/NDF:3671782.2/25

All: 507.424+/-0.077 $\chi^2$/NDF: 6562760.8/47




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: -211.903+/-791.291 $\chi^2$/NDF:7.1/6

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -915.553+/-786.741 $\chi^2$/NDF:9.9/5

Left: -565.757+/-557.912 $\chi^2$/NDF: 17.4/12

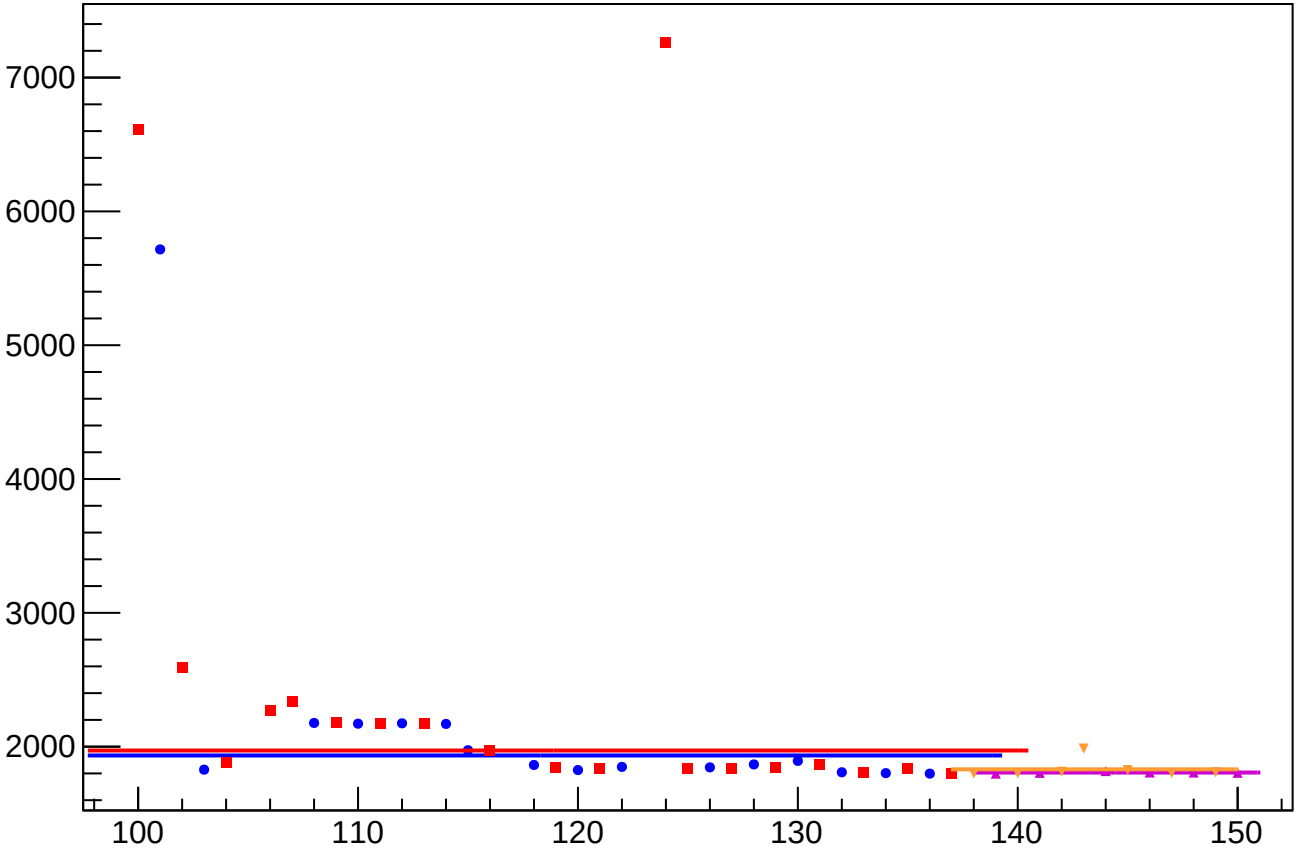
Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -560.483+/-537.128 $\chi^2$/NDF:27.5/21

Out: -441.734+/-539.134 $\chi^2$/NDF:23.3/25

All: -501.330+/-380.514 $\chi^2$/NDF: 50.8/47

# cor_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1830.466+/-0.560 $\chi^2$/NDF:11699.1/6

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1806.586+/-0.556 $\chi^2$/NDF:104.7/5

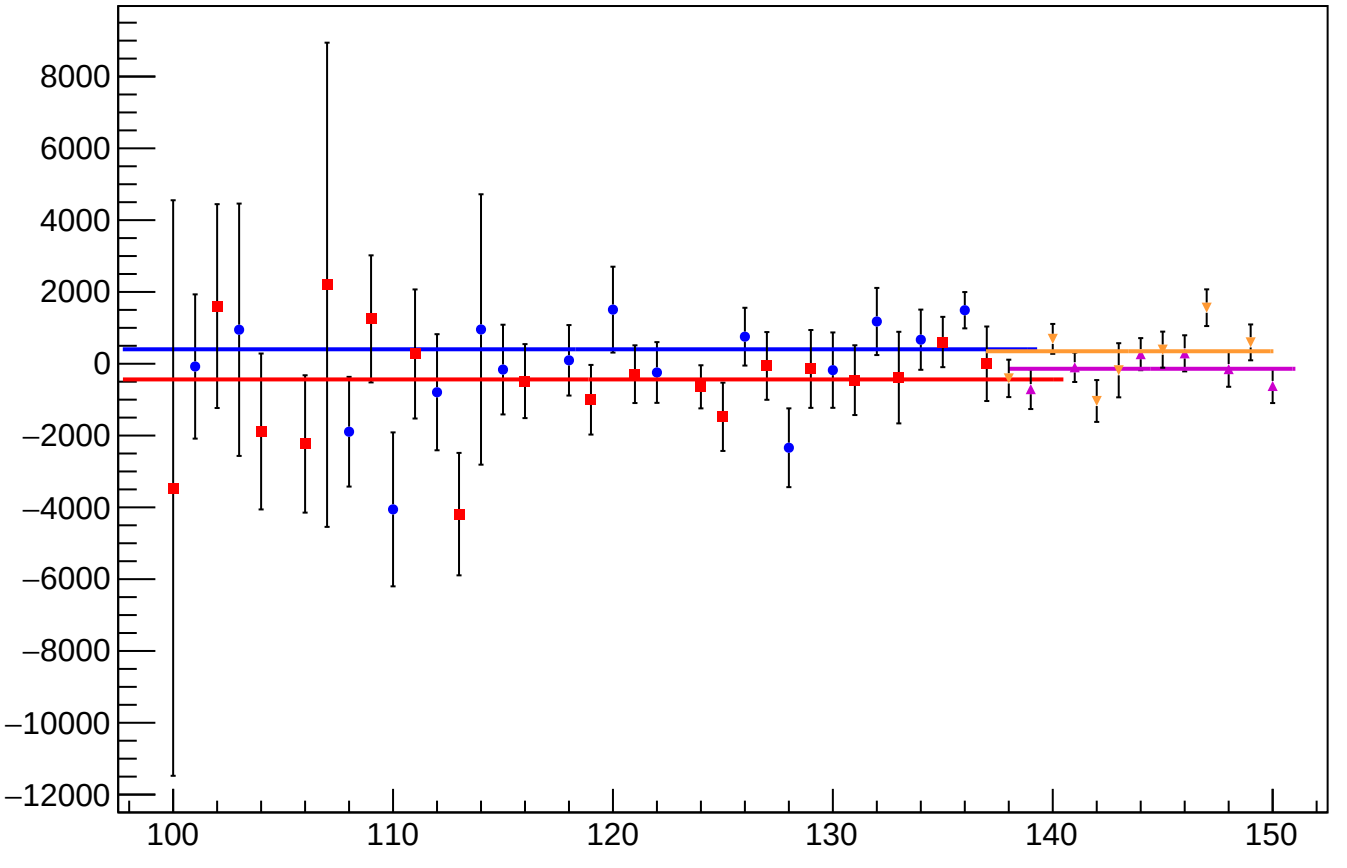
Left: 1818.457+/-0.395 $\chi^2$/NDF: 12719.8/12

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1874.726+/-0.380 $\chi^2$/NDF:668125.8/21

Out: 1905.953+/-0.381 $\chi^2$/NDF:428847.1/25

All: 1890.282+/-0.269 $\chi^2$/NDF: 1100340.2/47




Right In: 402.701+/-258.564 $\chi^2$/NDF: 21.1/15

Left Out: 348.120+/-196.241 $\chi^2$/NDF:14.8/6

Right Out: -436.691+/-252.672 $\chi^2$/NDF: 12.4/18

Left In: -140.172+/-193.513 $\chi^2$/NDF:3.6/5

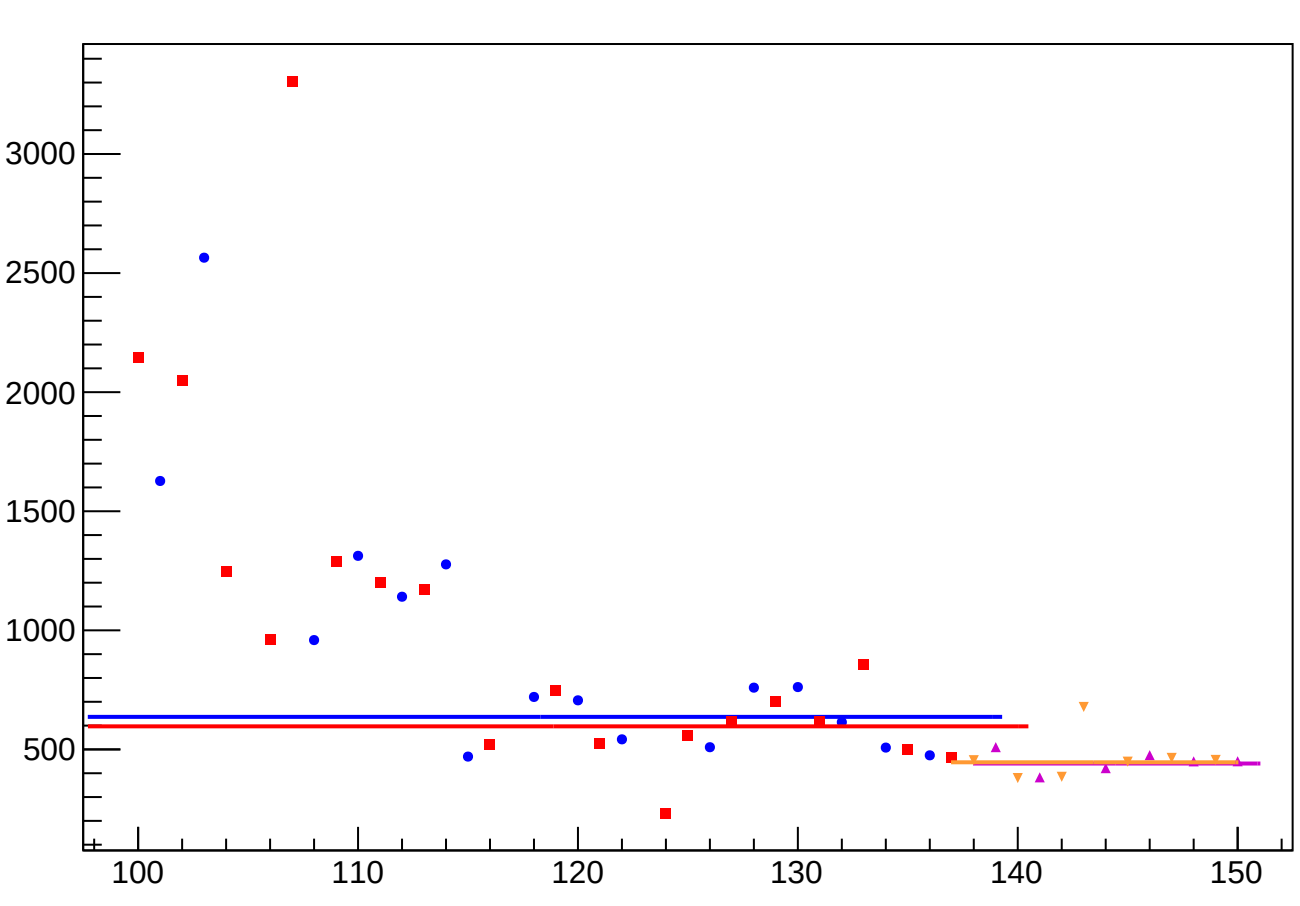
Left: 100.557+/-137.789 $\chi^2$/NDF: 21.6/12

Right: -26.666+/-180.713 $\chi^2$/NDF: 38.9/34

In: 54.734+/-154.928 $\chi^2$/NDF:27.6/21

Out: 52.836+/-154.987 $\chi^2$/NDF:33.2/25

All: 53.785+/-109.572 $\chi^2$/NDF: 60.8/47




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 445.947+/-0.139 $\chi^2$/NDF:266418.9/6

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 440.780+/-0.137 $\chi^2$/NDF:85881.5/5

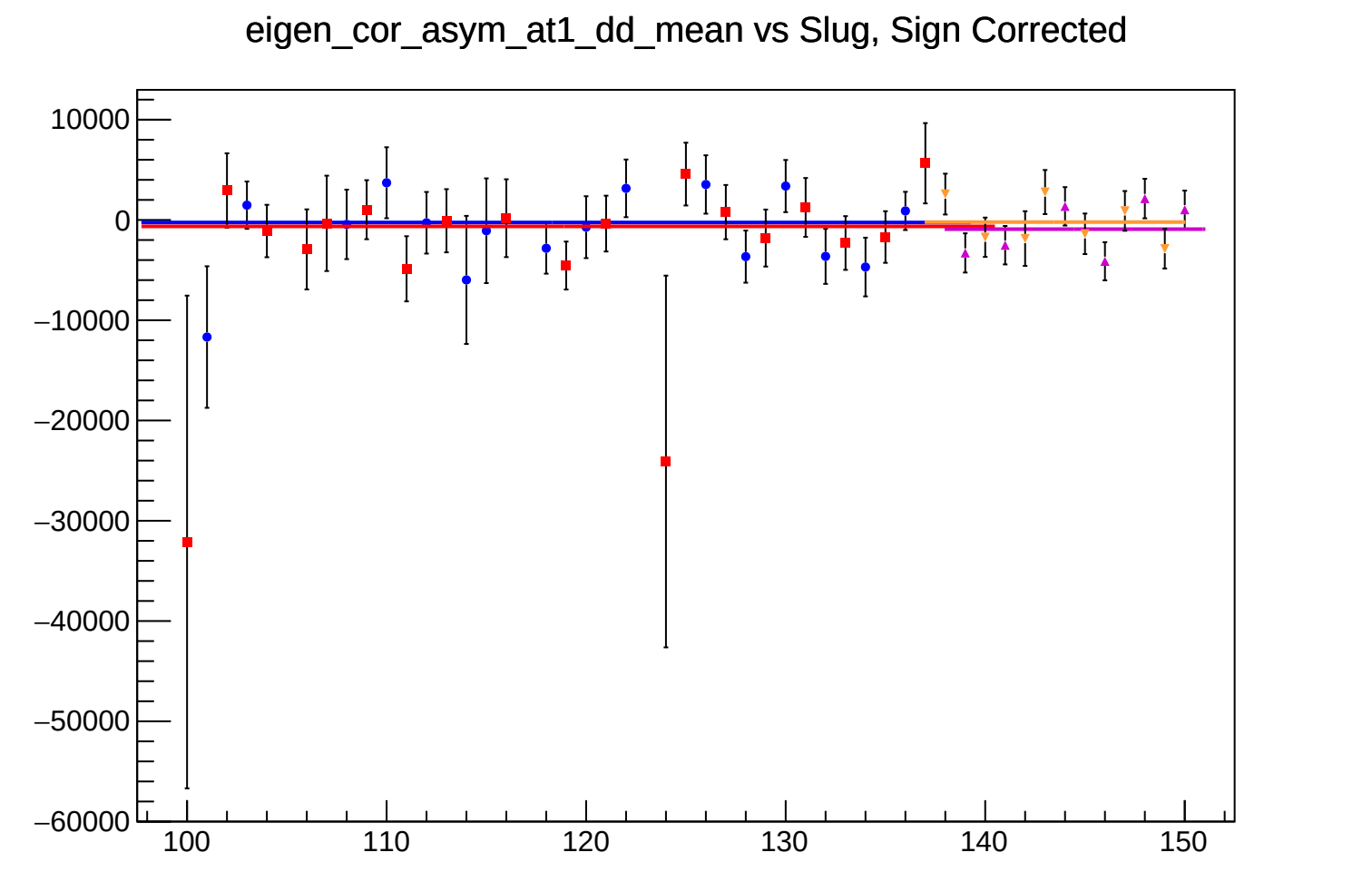
Left: 443.327+/-0.097 $\chi^2$/NDF: 353003.4/12

Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

In: 511.120+/-0.110 $\chi^2$/NDF:2887915.7/21

Out: 502.729+/-0.110 $\chi^2$/NDF:3641893.0/25

All: 506.926+/-0.077 $\chi^2$/NDF: 6532741.0/47




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: -211.903+/-791.291 $\chi^2$/NDF:7.1/6

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -915.553+/-786.741 $\chi^2$/NDF:9.9/5

Left: -565.757+/-557.912 $\chi^2$/NDF: 17.4/12

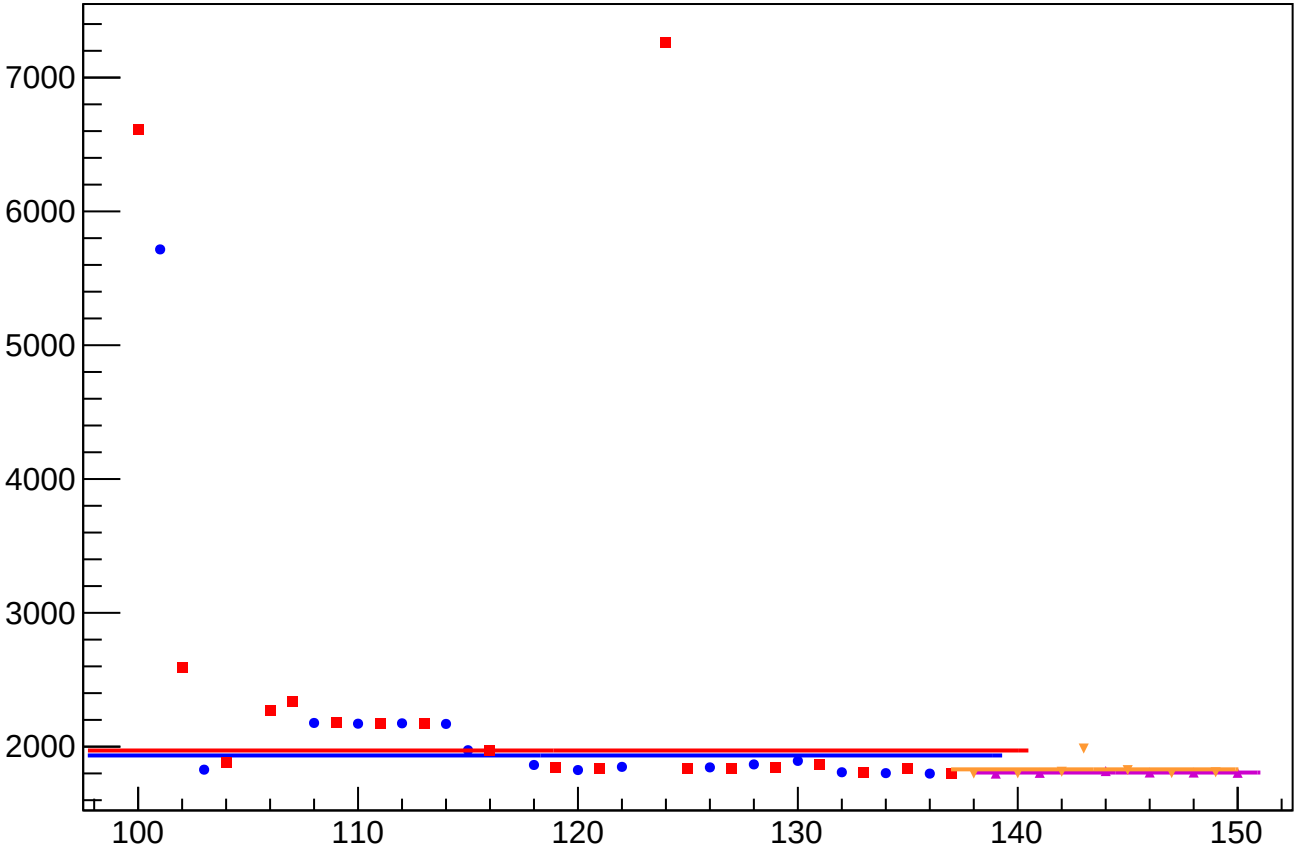
Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -560.483+/-537.128 $\chi^2$/NDF:27.5/21

Out: -441.734+/-539.134 $\chi^2$/NDF:23.3/25

All: -501.330+/-380.514 $\chi^2$/NDF: 50.8/47

# eigen_cor_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1830.466+/-0.560 $\chi^2$/NDF:11699.1/6

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1806.586+/-0.556 $\chi^2$/NDF:104.7/5

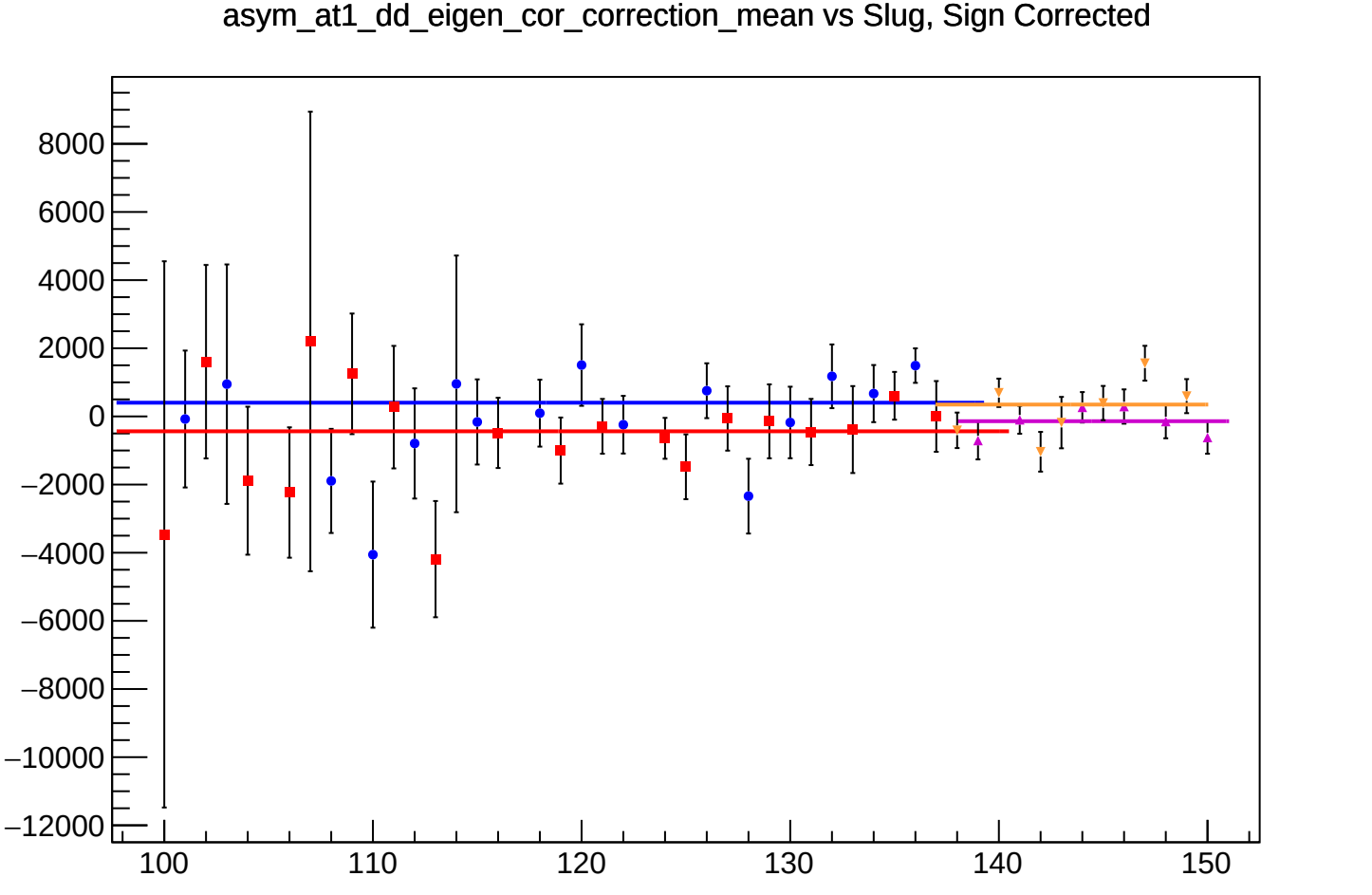
Left: 1818.457+/-0.395 $\chi^2$/NDF: 12719.8/12

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1874.726+/-0.380 $\chi^2$/NDF:668125.8/21

Out: 1905.953+/-0.381 $\chi^2$/NDF:428847.1/25

All: 1890.282+/-0.269 $\chi^2$/NDF: 1100340.2/47




Right In: 402.701+/-258.564 $\chi^2$/NDF: 21.1/15

Left Out: 348.120+/-196.241 $\chi^2$/NDF:14.8/6

Right Out: -436.691+/-252.672 $\chi^2$/NDF: 12.4/18

Left In: -140.172+/-193.513 $\chi^2$/NDF:3.6/5

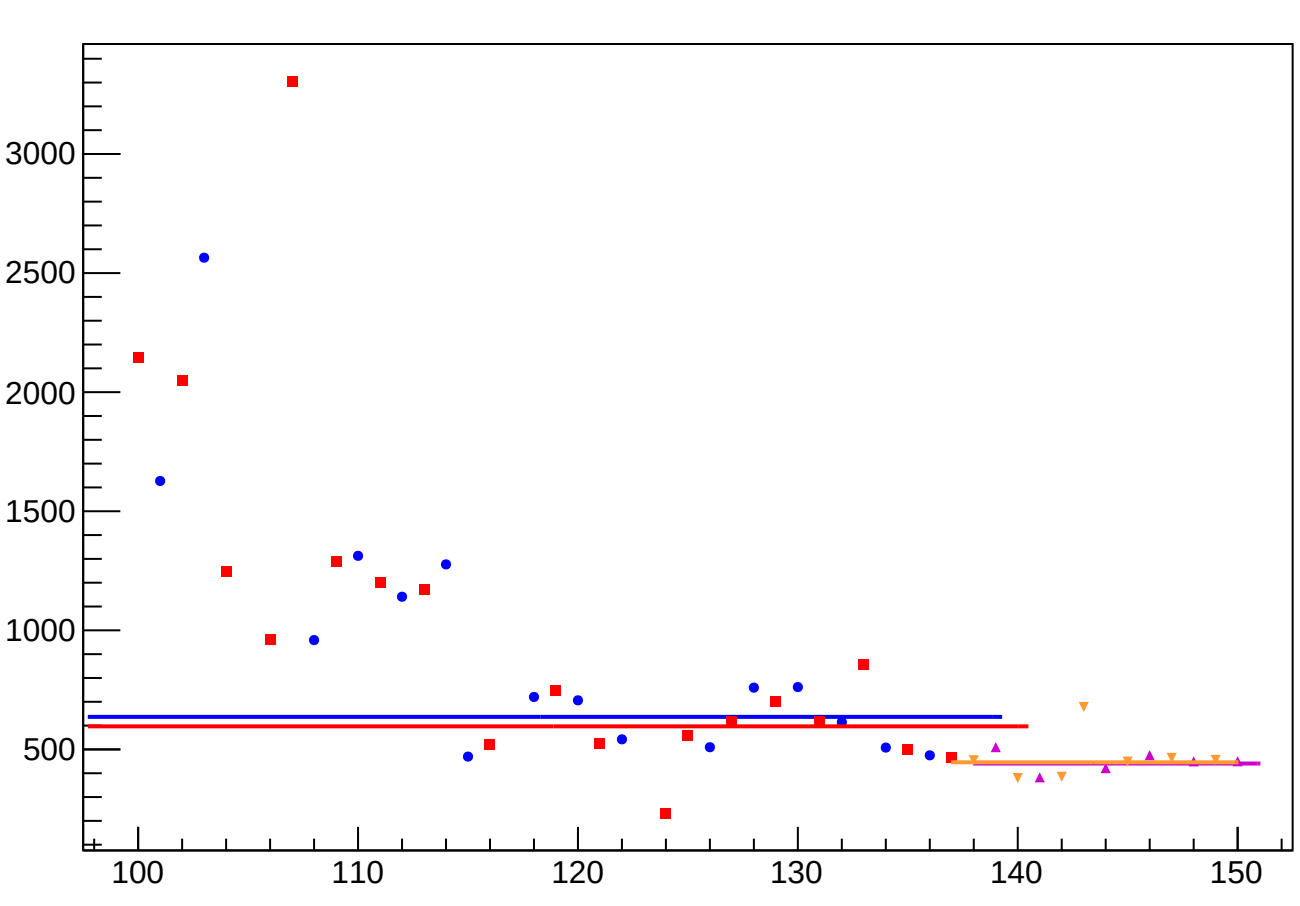
Left: 100.557+/-137.789 $\chi^2$/NDF: 21.6/12

Right: -26.666+/-180.713 $\chi^2$/NDF: 38.9/34

In: 54.734+/-154.928 $\chi^2$/NDF:27.6/21

Out: 52.836+/-154.987 $\chi^2$/NDF:33.2/25

All: 53.785+/-109.572 $\chi^2$/NDF: 60.8/47




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 445.947+/-0.139 $\chi^2$/NDF:266418.9/6

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 440.780+/-0.137 $\chi^2$/NDF:85881.5/5

Left: 443.327+/-0.097 $\chi^2$/NDF: 353003.4/12

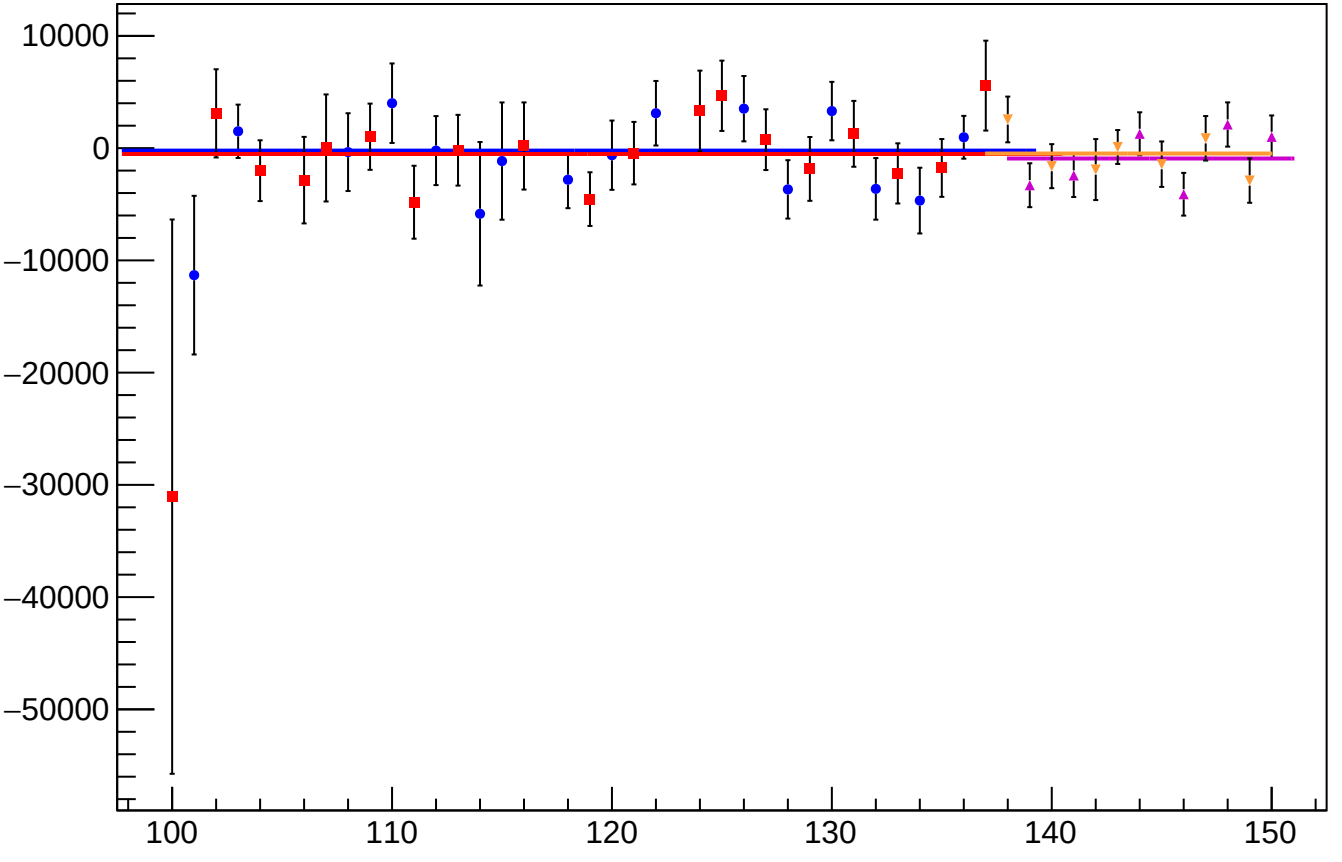
Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

In: 511.120+/-0.110 $\chi^2$/NDF:2887915.7/21

Out: 502.729+/-0.110 $\chi^2$/NDF:3641893.0/25

All: 506.926+/-0.077 $\chi^2$/NDF: 6532741.0/47

# dit_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -220.393+/-735.888 $\chi^2$/NDF: 17.1/15

Left Out: -480.499+/-739.422 $\chi^2$/NDF:5.1/6

Right Out: -520.265+/-724.980 $\chi^2$/NDF: 15.6/18

Left In: -923.847+/-787.015 $\chi^2$/NDF:9.6/5

Left: -688.363+/-538.891 $\chi^2$/NDF: 14.9/12

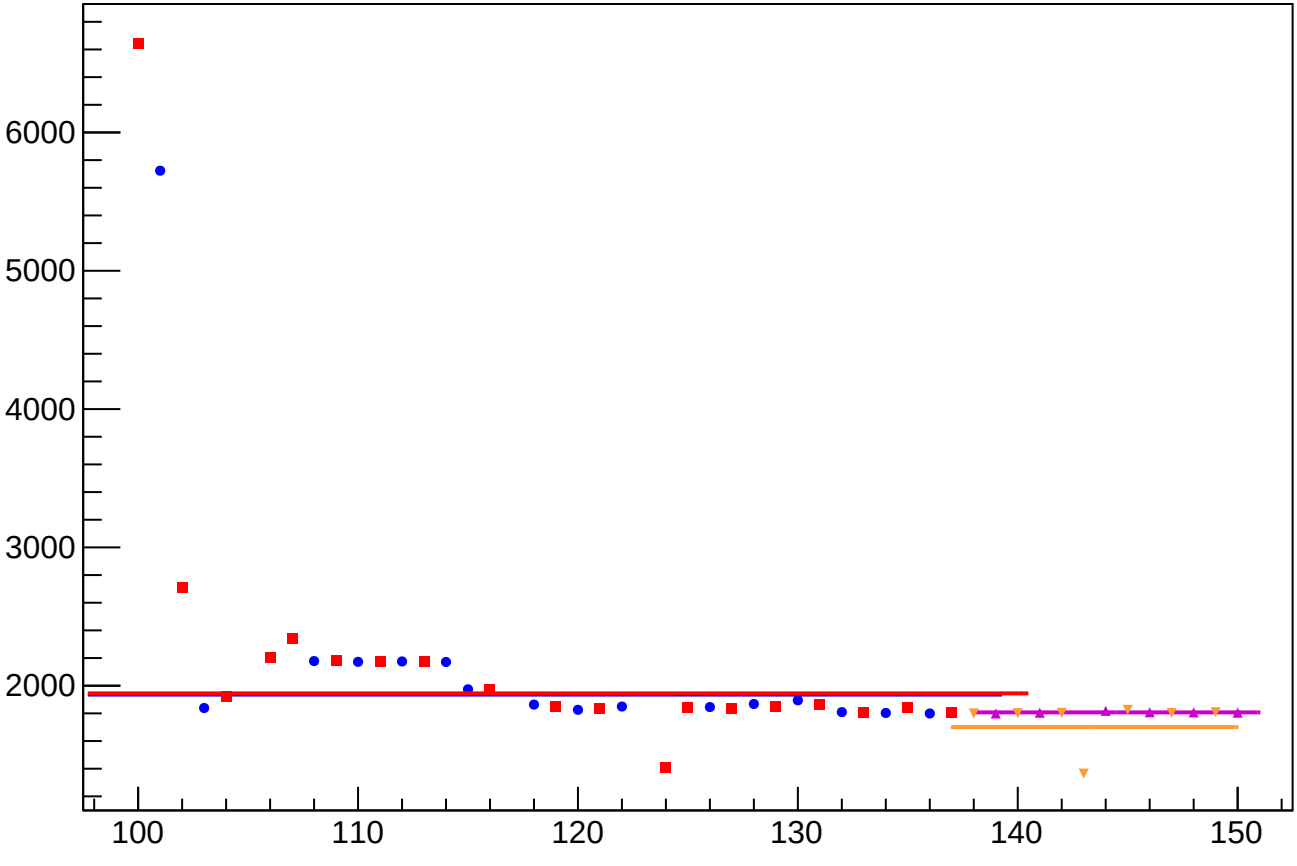
Right: -372.568+/-516.452 $\chi^2$/NDF: 32.8/34

In: -548.530+/-537.518 $\chi^2$/NDF:27.1/21

Out: -500.774+/-517.669 $\chi^2$/NDF:20.8/25

All: -523.754+/-372.867 $\chi^2$/NDF: 47.9/47

# dit_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1700.835+/-0.523 $\chi^2$/NDF:130963.6/6

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.6/18

Left In: 1807.217+/-0.557 $\chi^2$/NDF:105.1/5

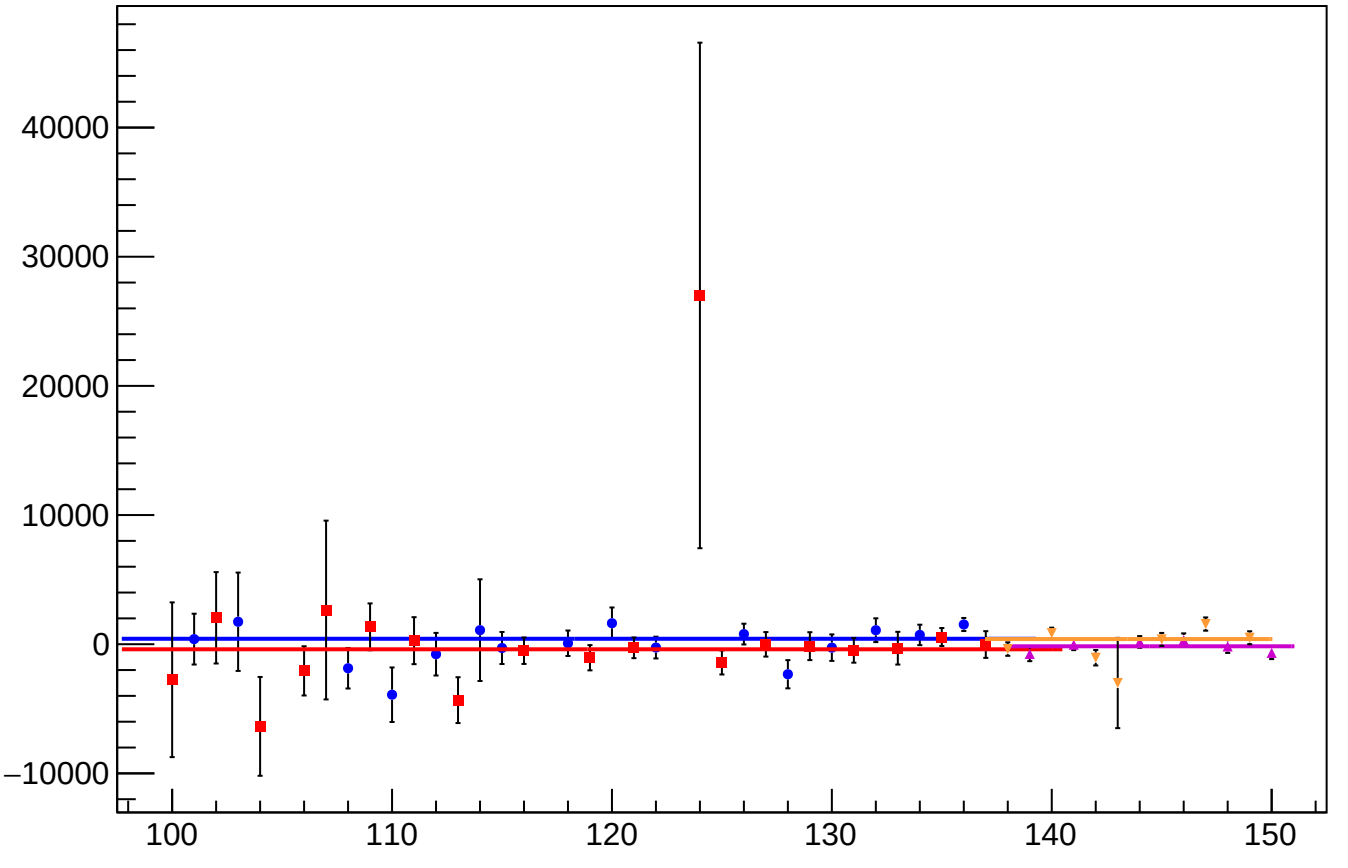
Left: 1750.712+/-0.381 $\chi^2$/NDF: 150478.1/12

Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.7/34

In: 1875.913+/-0.380 $\chi^2$/NDF:668474.0/21

Out: 1825.068+/-0.366 $\chi^2$/NDF:517917.3/25

All: 1849.534+/-0.264 $\chi^2$/NDF: 1195675.7/47




Right In: 421.145+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 399.415+/-205.475 $\chi^2$/NDF:15.3/6

Right Out: -393.590+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -160.990+/-197.586 $\chi^2$/NDF:3.7/5

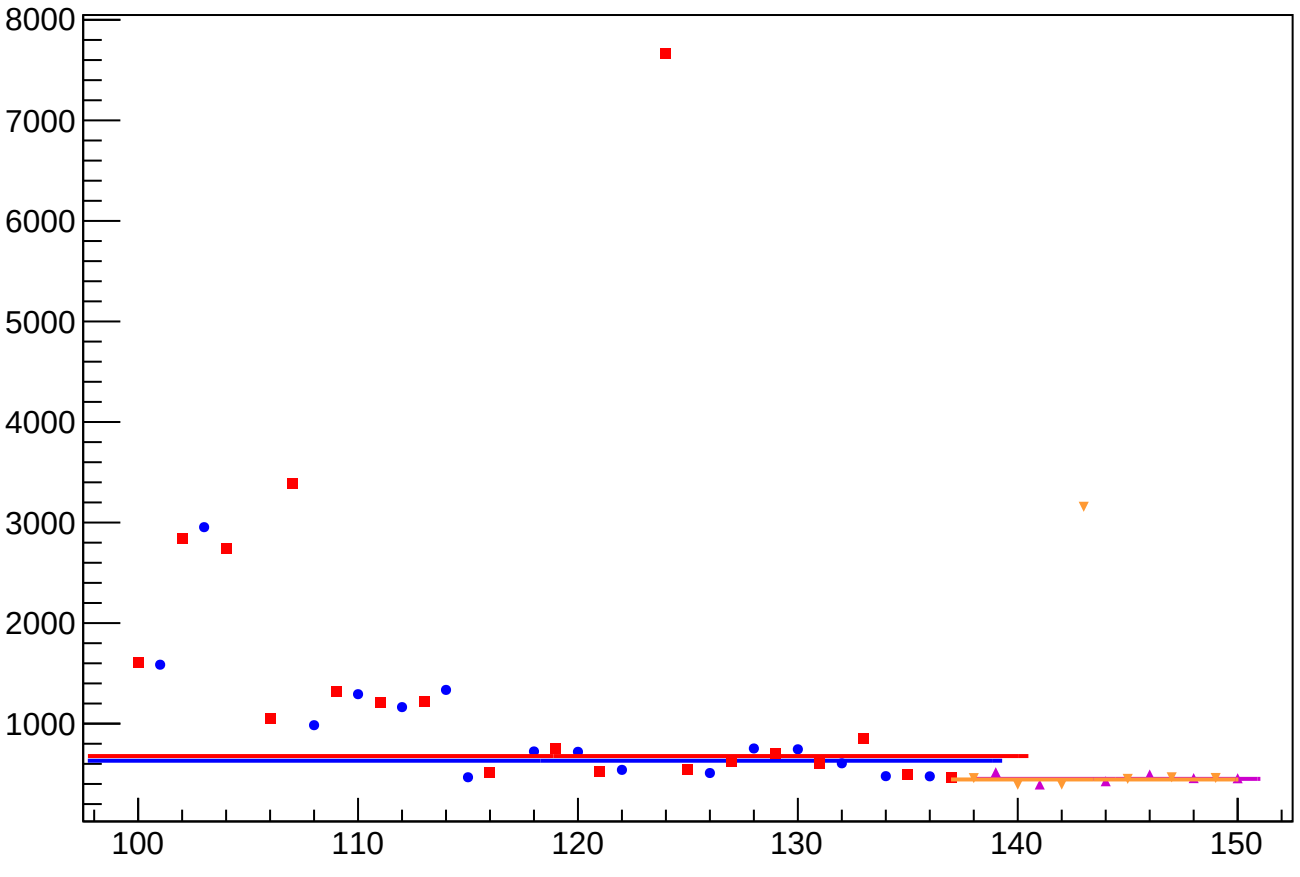
Left: 108.249+/-142.422 $\chi^2$/NDF: 22.8/12

Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 55.537+/-156.586 $\chi^2$/NDF:28.4/21

Out: 121.279+/-165.565 $\chi^2$/NDF:36.4/25

All: 86.577+/-113.765 $\chi^2$/NDF: 64.9/47




Right In: 631.140+/-0.182 $\chi^2$/NDF: 2234480.1/15

Left Out: 444.713+/-0.145 $\chi^2$/NDF:1256314.2/6

Right Out: 677.438+/-0.198 $\chi^2$/NDF: 3081569.8/18

Left In: 450.619+/-0.140 $\chi^2$/NDF:82929.0/5

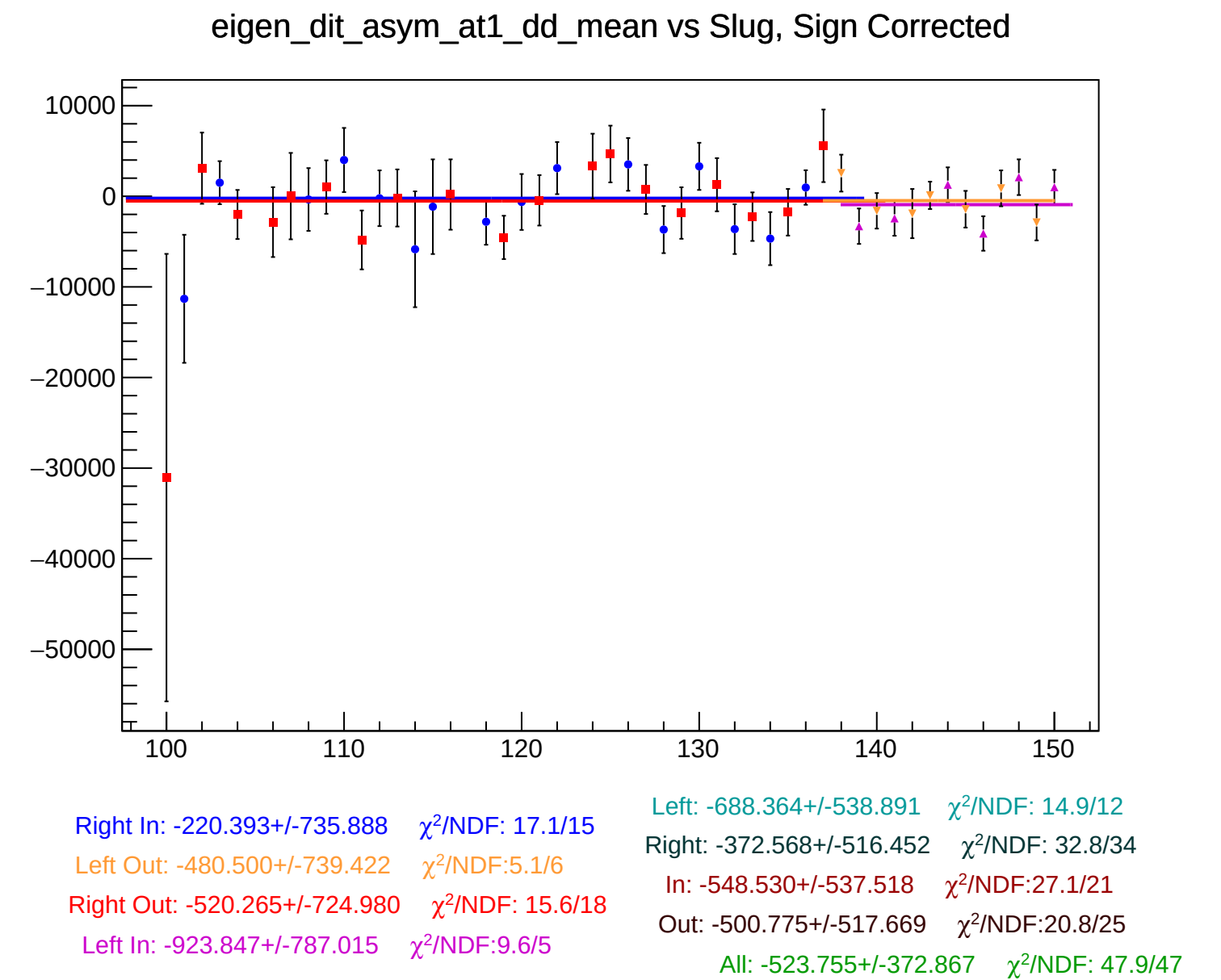
Left: 447.781+/-0.101 $\chi^2$/NDF: 1340101.7/12

Right: 652.323+/-0.134 $\chi^2$/NDF: 5345805.1/34

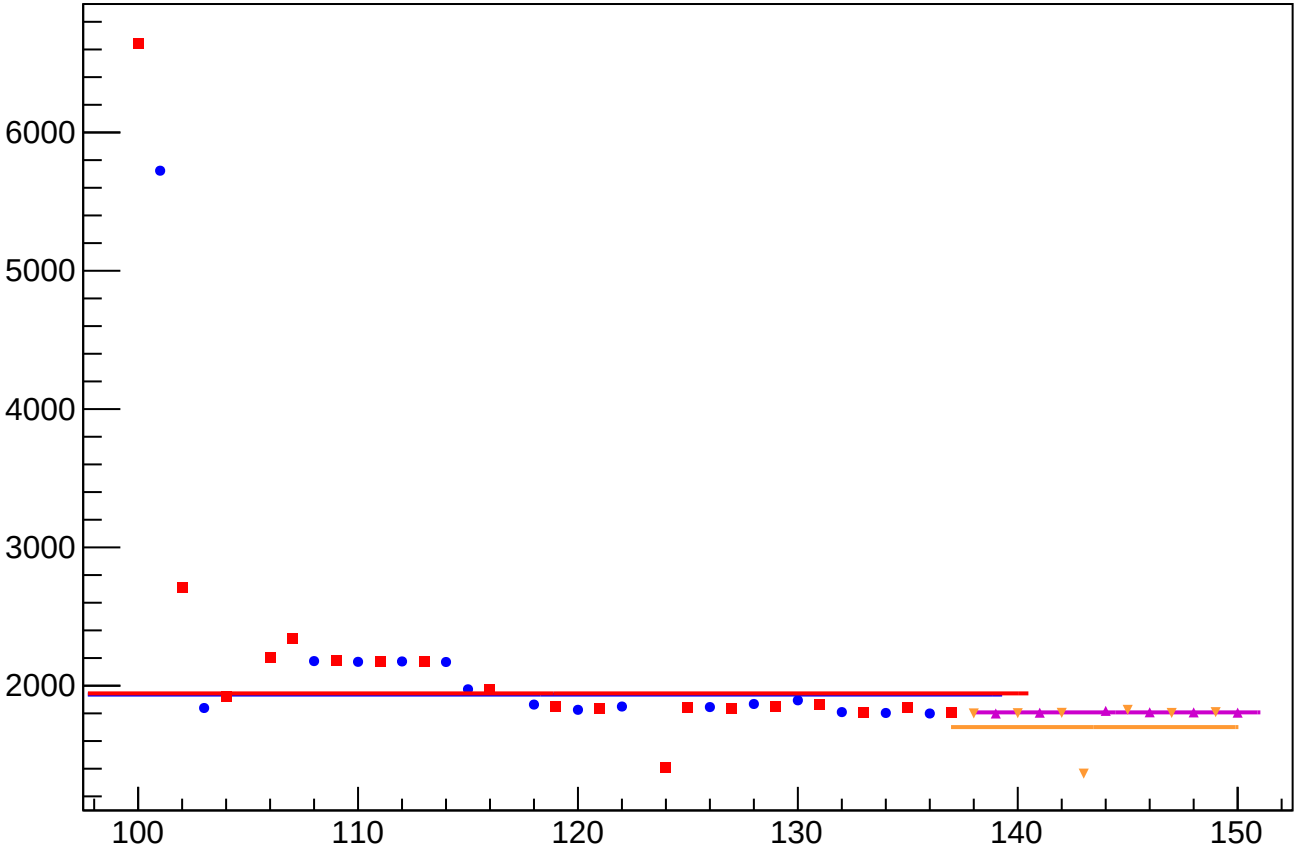
In: 517.764+/-0.111 $\chi^2$/NDF:2938362.1/21

Out: 526.338+/-0.117 $\chi^2$/NDF:5237751.5/25

All: 521.812+/-0.080 $\chi^2$/NDF: 8178944.7/47


eigen_dit_asym_at1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
110
120
130
140
150
Right In: -220.393+/-735.888 χ²/NDF: 17.1/15
Left Out: -480.500+/-739.422 χ²/NDF:5.1/6
Right Out: -520.265+/-724.980 χ²/NDF: 15.6/18
Left In: -923.847+/-787.015 χ²/NDF:9.6/5
Left: -688.364+/-538.891 χ²/NDF: 14.9/12
Right: -372.568+/-516.452 χ²/NDF: 32.8/34
In: -548.530+/-537.518 χ²/NDF:27.1/21
Out: -500.775+/-517.669 χ²/NDF:20.8/25
All: -523.755+/-372.867 χ²/NDF: 47.9/47

# eigen_dit_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1700.835+/-0.523 $\chi^2$/NDF:130963.6/6

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.5/18

Left In: 1807.217+/-0.557 $\chi^2$/NDF:105.1/5

Left: 1750.712+/-0.381 $\chi^2$/NDF: 150478.1/12

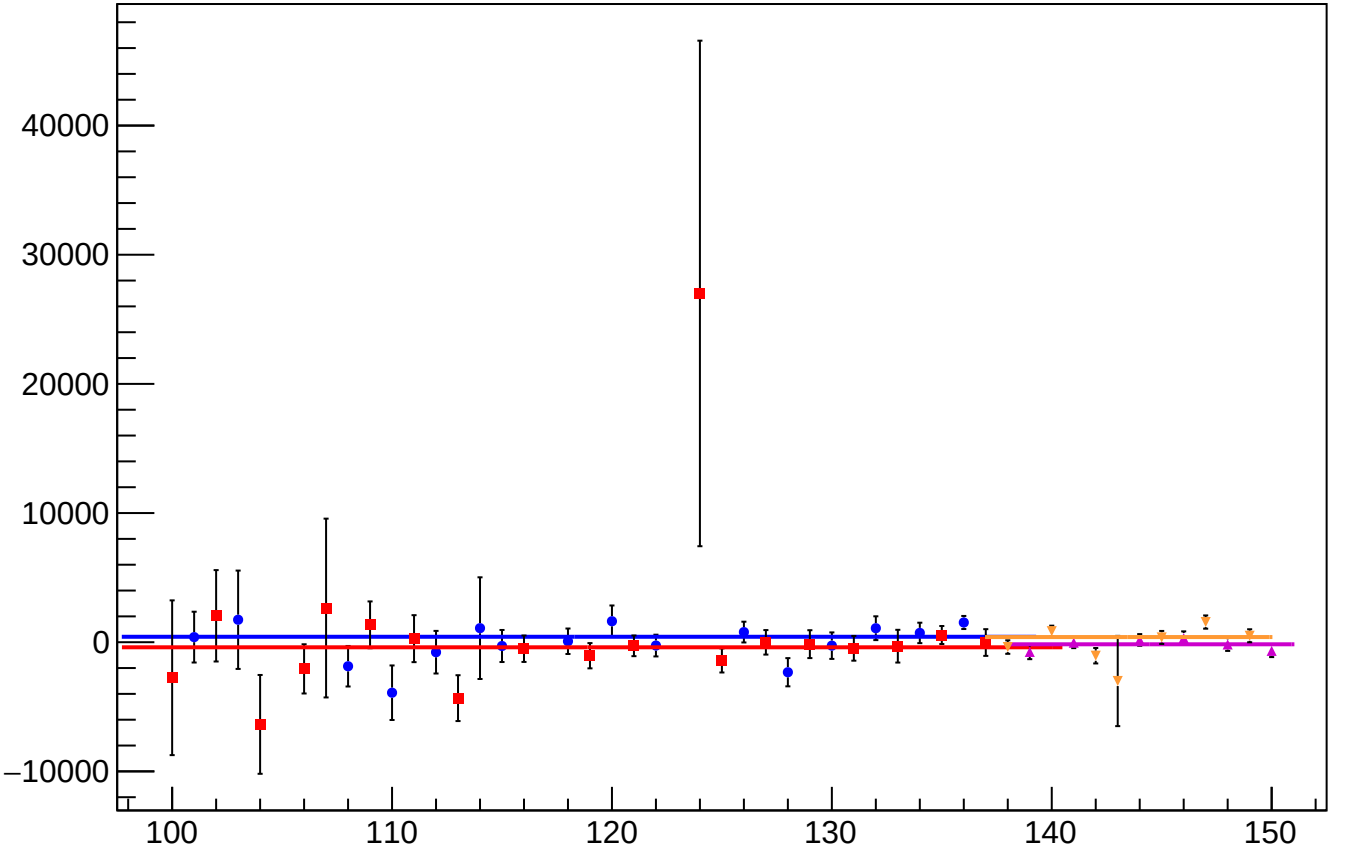
Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.5/34

In: 1875.913+/-0.380 $\chi^2$/NDF:668474.0/21

Out: 1825.068+/-0.366 $\chi^2$/NDF:517917.1/25

All: 1849.534+/-0.264 $\chi^2$/NDF: 1195675.4/47

asym_at1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 421.144+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 399.416+/-205.474 $\chi^2$/NDF:15.3/6

Right Out: -393.591+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -160.990+/-197.586 $\chi^2$/NDF:3.7/5

Left: 108.250+/-142.422 $\chi^2$/NDF: 22.8/12

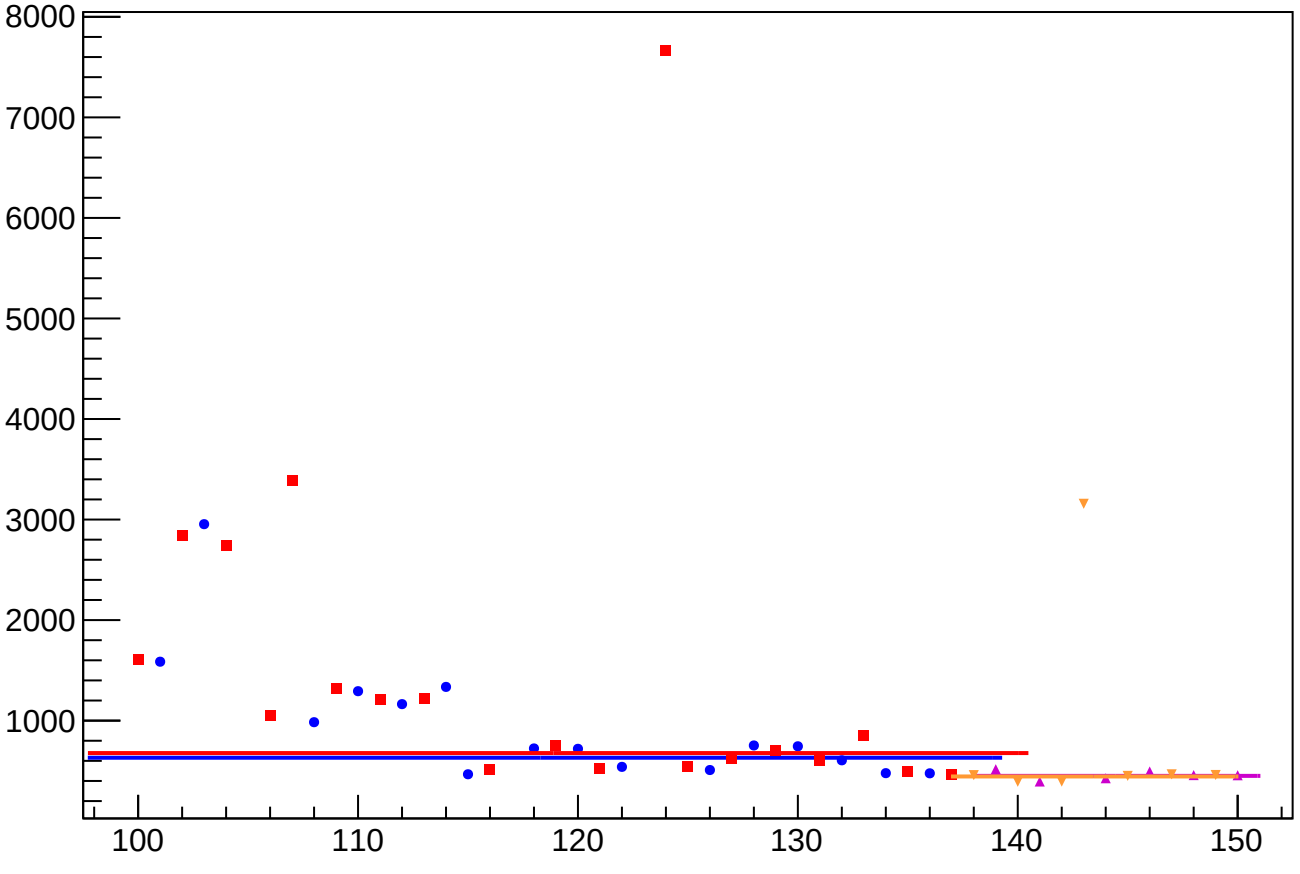
Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 55.536+/-156.586 $\chi^2$/NDF:28.4/21

Out: 121.281+/-165.565 $\chi^2$/NDF:36.4/25

All: 86.577+/-113.765 $\chi^2$/NDF: 64.9/47

asym_at1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 631.139+/-0.182 $\chi^2$/NDF: 2234479.1/15

Left Out: 444.712+/-0.145 $\chi^2$/NDF:1256313.4/6

Right Out: 677.437+/-0.198 $\chi^2$/NDF: 3081570.5/18

Left In: 450.618+/-0.140 $\chi^2$/NDF:82929.6/5

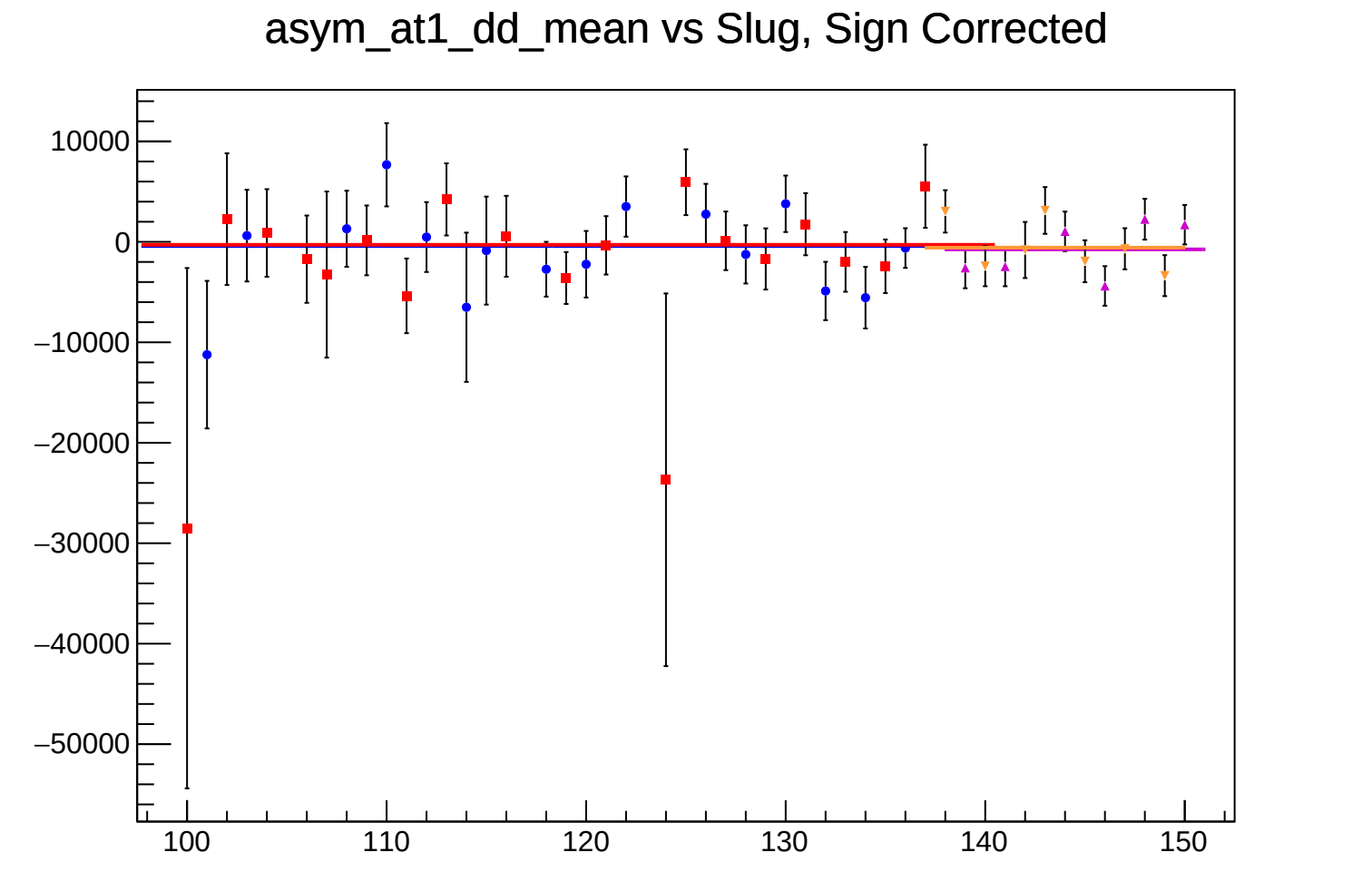
Left: 447.781+/-0.101 $\chi^2$/NDF: 1340101.6/12

Right: 652.323+/-0.134 $\chi^2$/NDF: 5345804.8/34

In: 517.764+/-0.111 $\chi^2$/NDF:2938363.4/21

Out: 526.337+/-0.117 $\chi^2$/NDF:5237758.0/25

All: 521.812+/-0.080 $\chi^2$/NDF: 8178952.3/47




Right In: -417.662+/-815.370 $\chi^2$/NDF: 18.3/15

Left Out: -574.182+/-818.115 $\chi^2$/NDF:8.6/6

Right Out: -294.527+/-831.610 $\chi^2$/NDF: 15.6/18

Left In: -748.621+/-811.579 $\chi^2$/NDF:9.6/5

Left: -662.101+/-576.170 $\chi^2$/NDF: 18.2/12

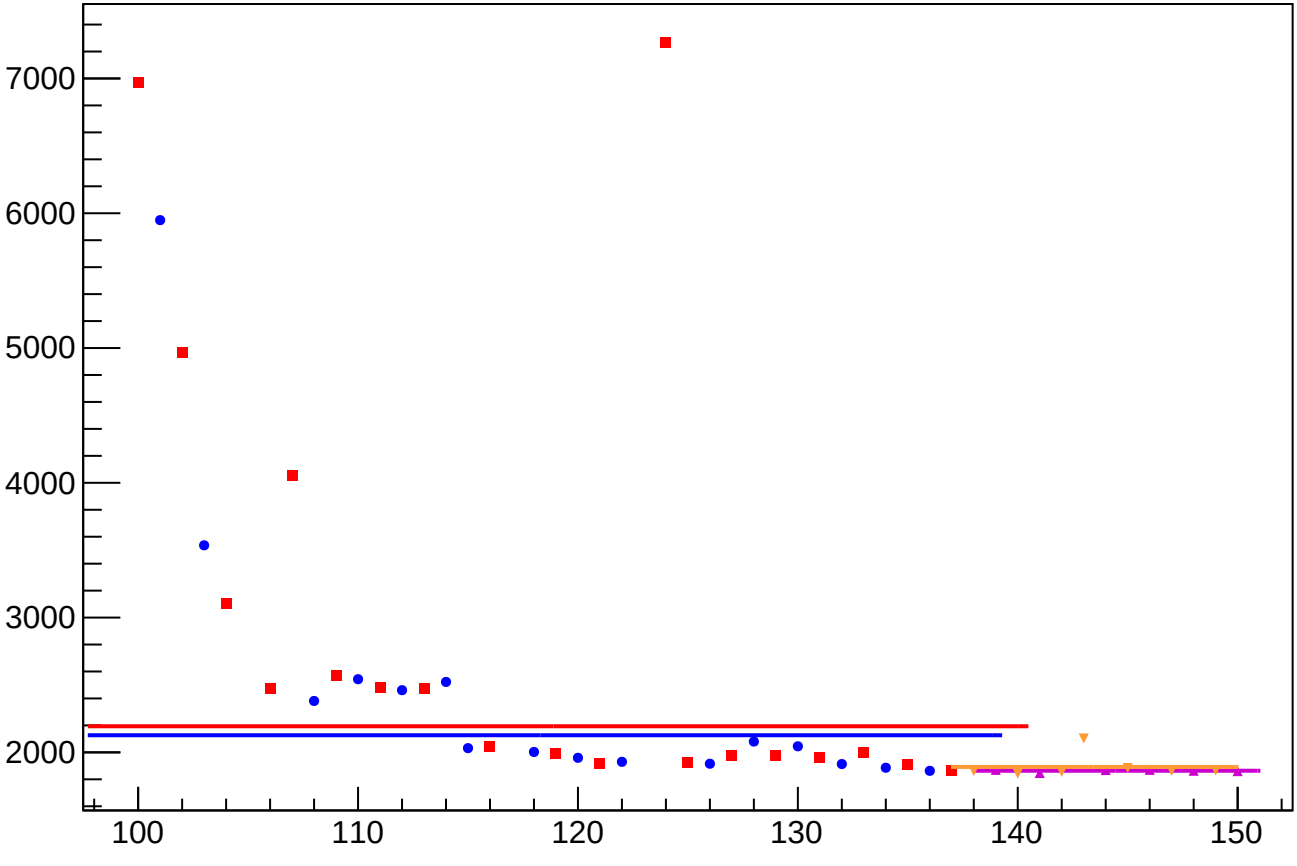
Right: -357.308+/-582.210 $\chi^2$/NDF: 34.0/34

In: -583.913+/-575.208 $\chi^2$/NDF:28.0/21

Out: -436.642+/-583.207 $\chi^2$/NDF:24.3/25

All: -511.294+/-409.533 $\chi^2$/NDF: 52.3/47

# asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 2127.041+/-0.577 $\chi^2$/NDF: 875078.1/15

Left Out: 1891.823+/-0.578 $\chi^2$/NDF:19187.4/6

Right Out: 2193.560+/-0.588 $\chi^2$/NDF: 942581.2/18

Left In: 1863.591+/-0.574 $\chi^2$/NDF:203.9/5

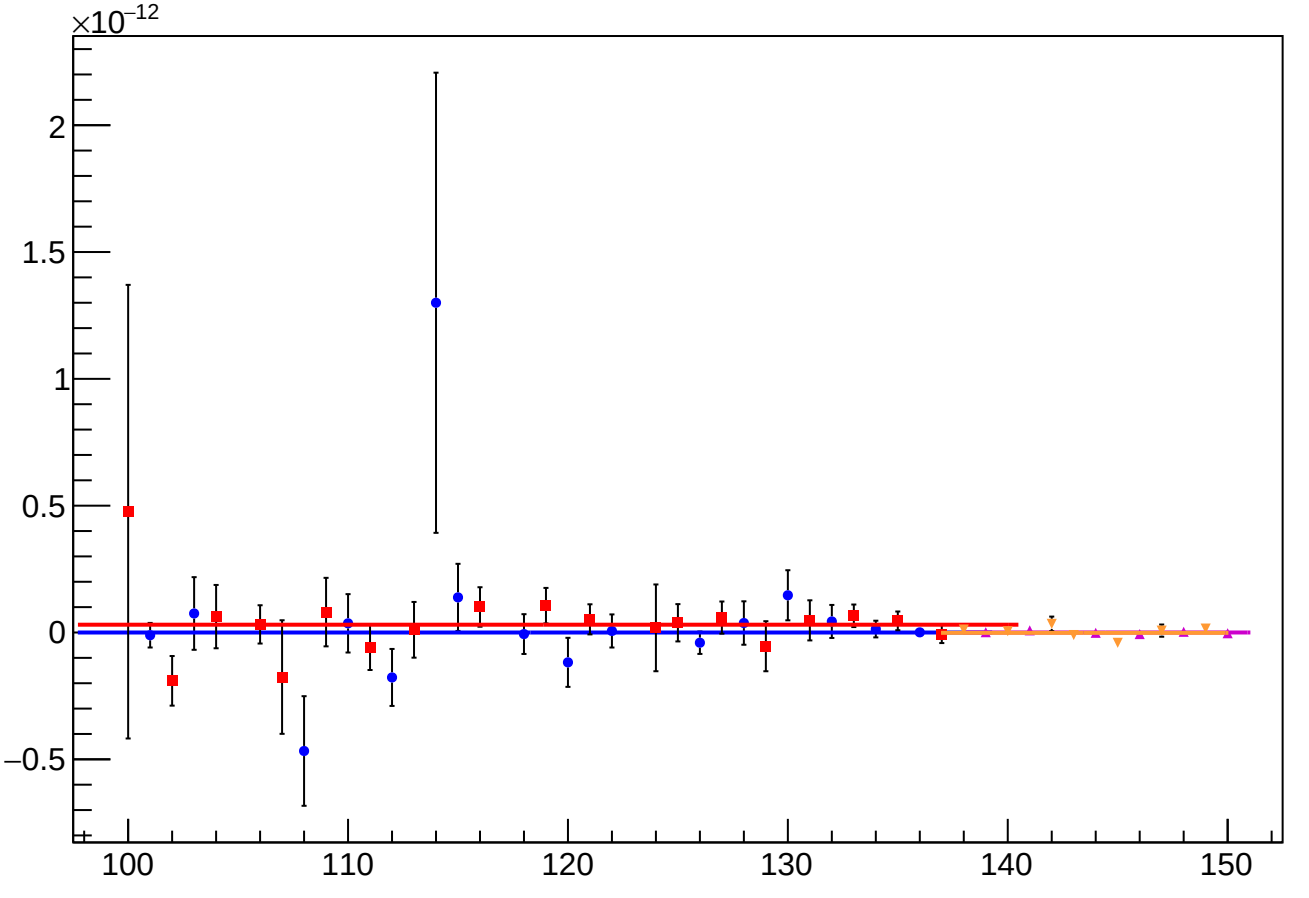
Left: 1877.594+/-0.407 $\chi^2$/NDF: 20591.6/12

Right: 2159.645+/-0.412 $\chi^2$/NDF: 1824183.5/34

In: 1994.702+/-0.407 $\chi^2$/NDF:980165.4/21

Out: 2040.224+/-0.412 $\chi^2$/NDF:1095571.5/25

All: 2017.149+/-0.290 $\chi^2$/NDF: 2081913.4/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/5

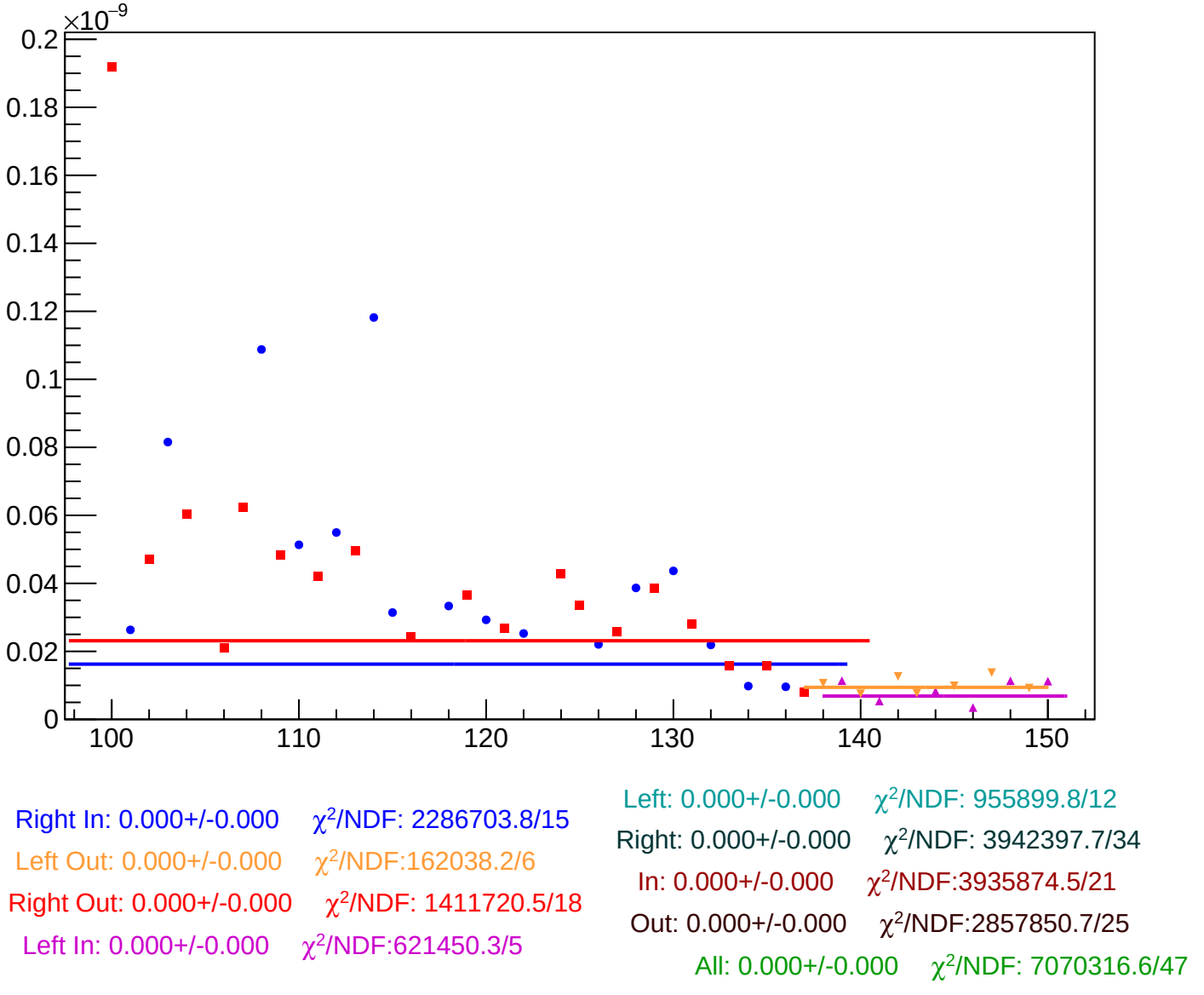
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.4/12

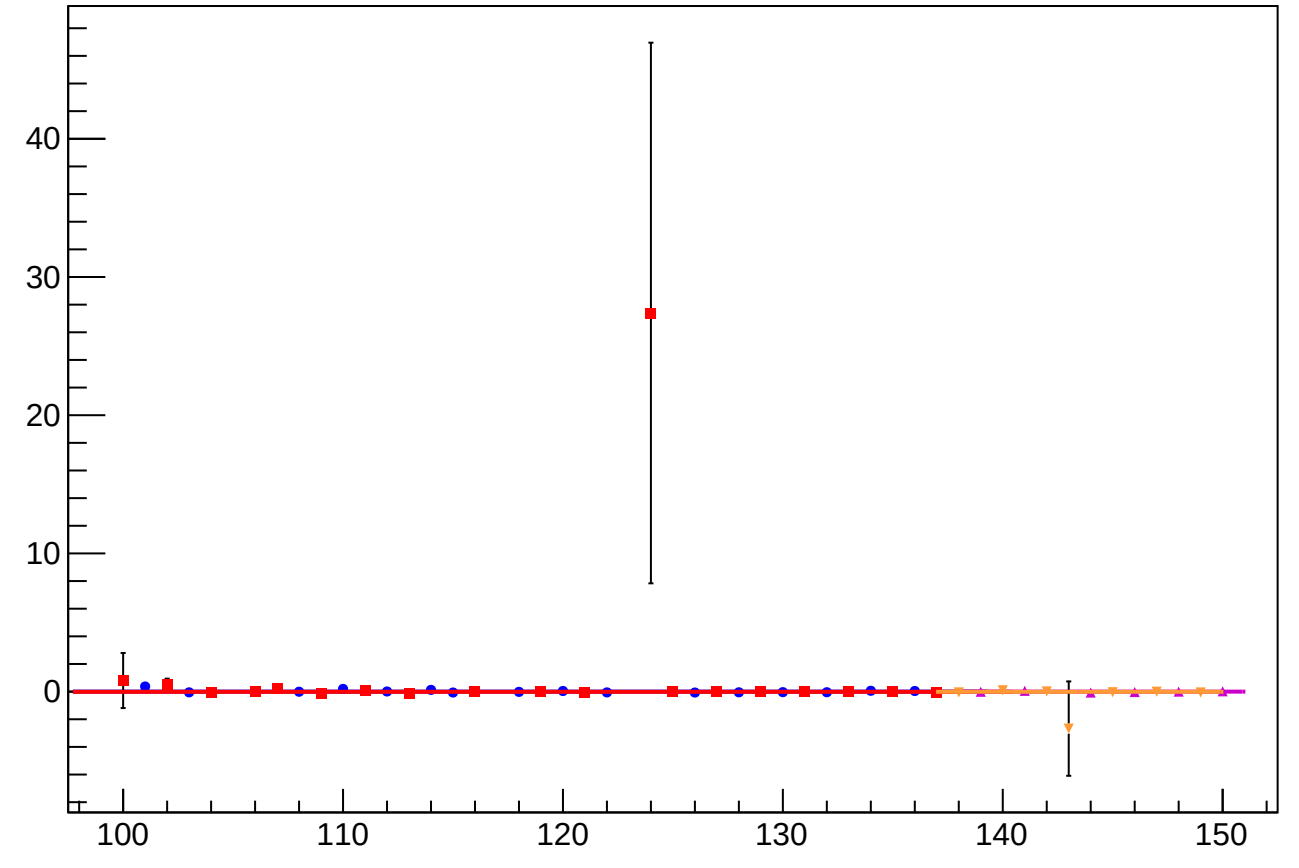
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 42.6/47


asym_at1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2286703.8/15
Left Out: 0.000+/-0.000 χ²/NDF:162038.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 1411720.5/18
Left In: 0.000+/-0.000 χ²/NDF:621450.3/5
Left: 0.000+/-0.000 χ²/NDF: 955899.8/12
Right: 0.000+/-0.000 χ²/NDF: 3942397.7/34
In: 0.000+/-0.000 χ²/NDF:3935874.5/21
Out: 0.000+/-0.000 χ²/NDF:2857850.7/25
All: 0.000+/-0.000 χ²/NDF: 7070316.6/47




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.011+/-0.017 $\chi^2$/NDF:11.9/6

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.001+/-0.016 $\chi^2$/NDF:6.4/5

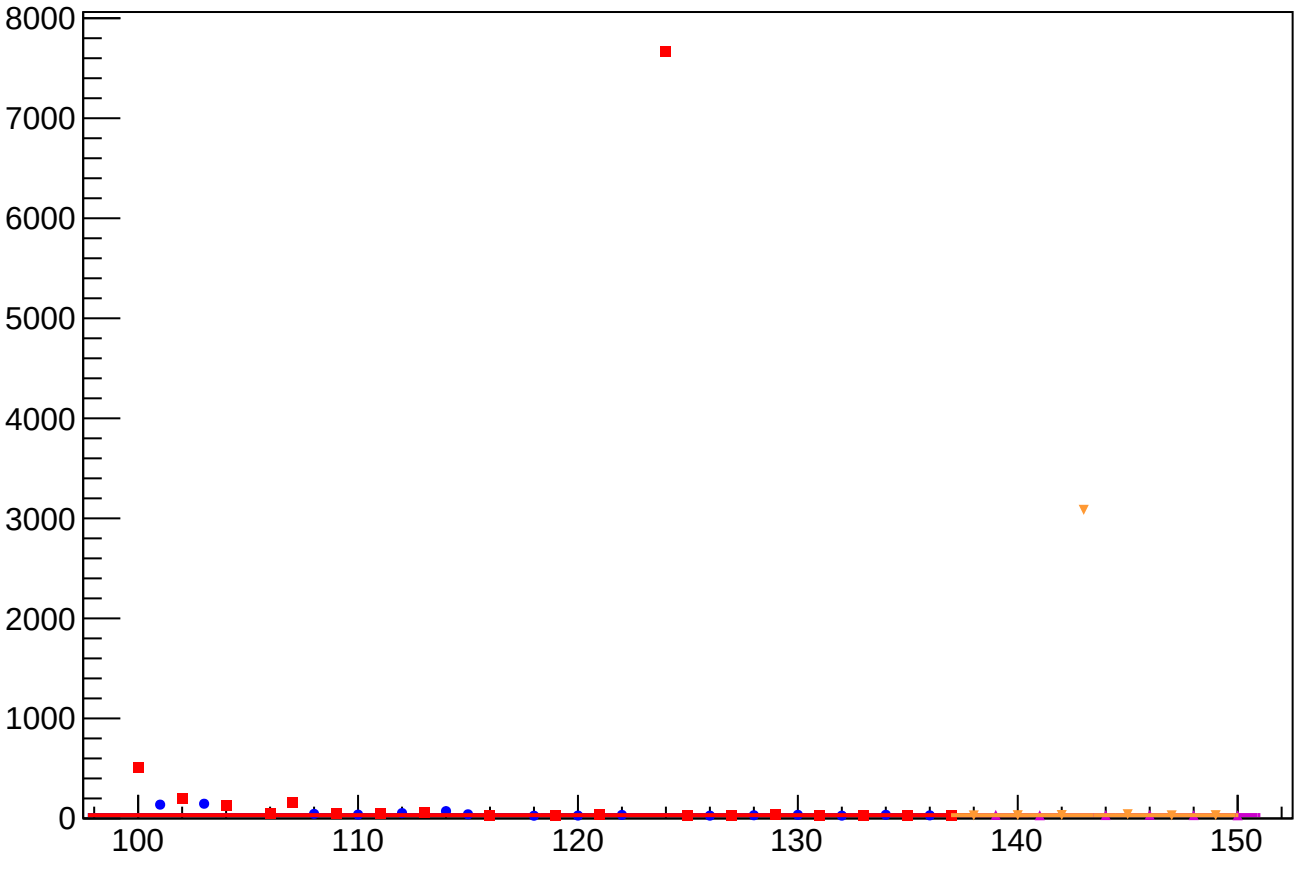
Left: -0.006+/-0.012 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.001+/-0.011 $\chi^2$/NDF:27.4/21

Out: -0.011+/-0.011 $\chi^2$/NDF:26.1/25

All: -0.005+/-0.008 $\chi^2$/NDF: 54.1/47




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 32.982+/-0.012 $\chi^2$/NDF:1685130.5/6

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 34.058+/-0.011 $\chi^2$/NDF:27246.9/5

Left: 33.543+/-0.008 $\chi^2$/NDF: 1716707.8/12

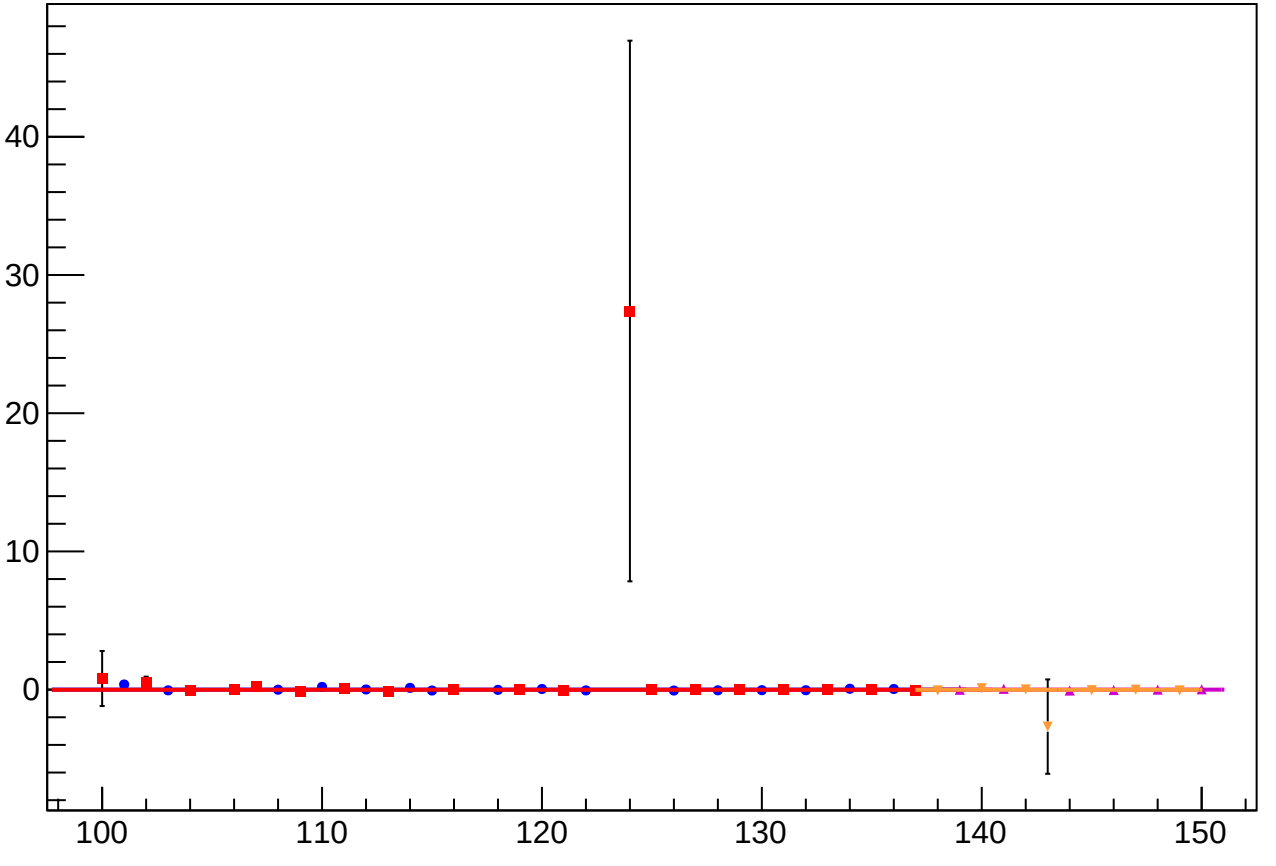
Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 34.057+/-0.008 $\chi^2$/NDF:1744513.1/21

Out: 33.039+/-0.008 $\chi^2$/NDF:3760296.4/25

All: 33.560+/-0.005 $\chi^2$/NDF: 5513411.7/47

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.011+/-0.017 $\chi^2$/NDF:11.9/6

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.001+/-0.016 $\chi^2$/NDF:6.4/5

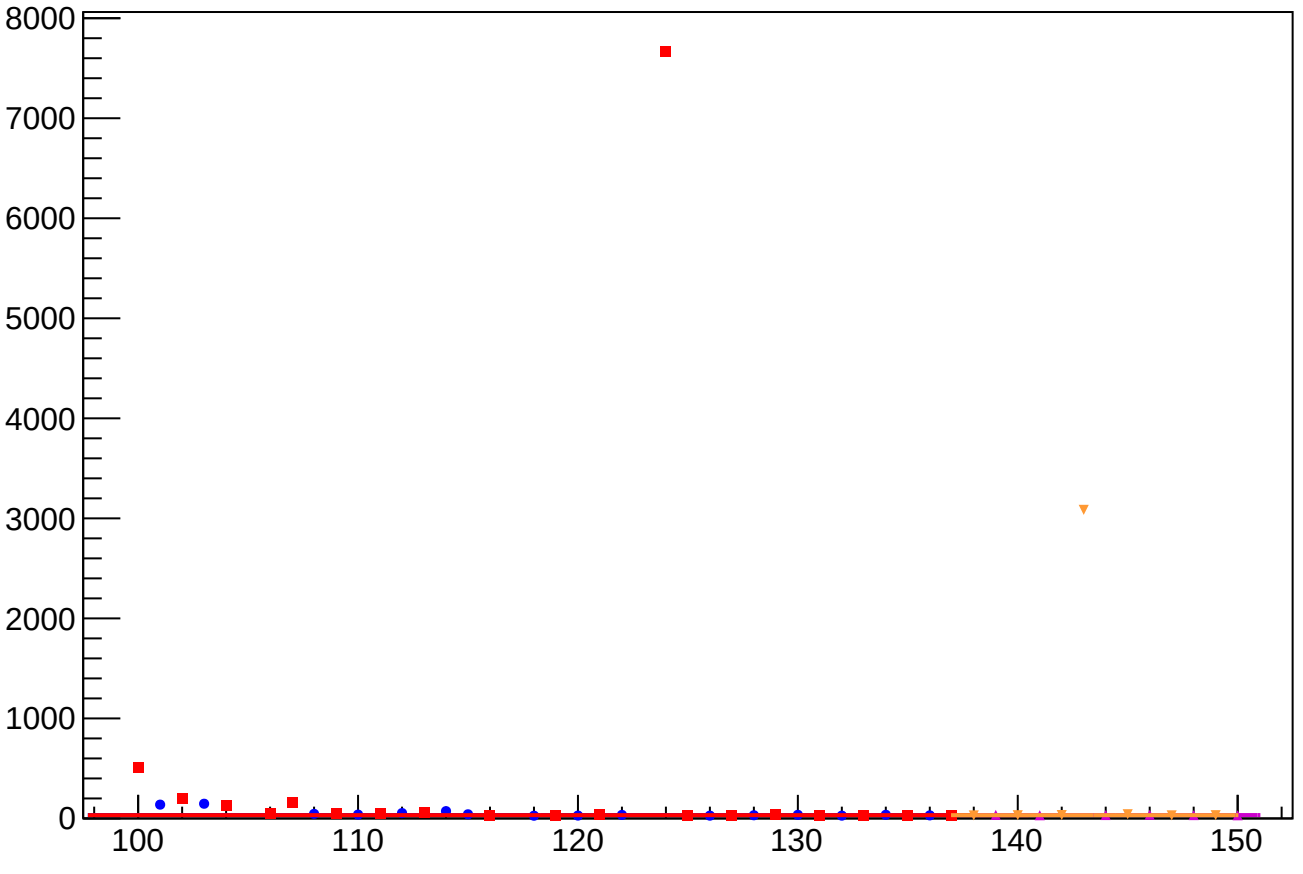
Left: -0.006+/-0.012 $\chi^2$/NDF: 18.5/12

Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.001+/-0.011 $\chi^2$/NDF:27.4/21

Out: -0.011+/-0.011 $\chi^2$/NDF:26.1/25

All: -0.005+/-0.008 $\chi^2$/NDF: 54.1/47




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 32.982+/-0.012 $\chi^2$/NDF:1685130.5/6

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 34.058+/-0.011 $\chi^2$/NDF:27246.9/5

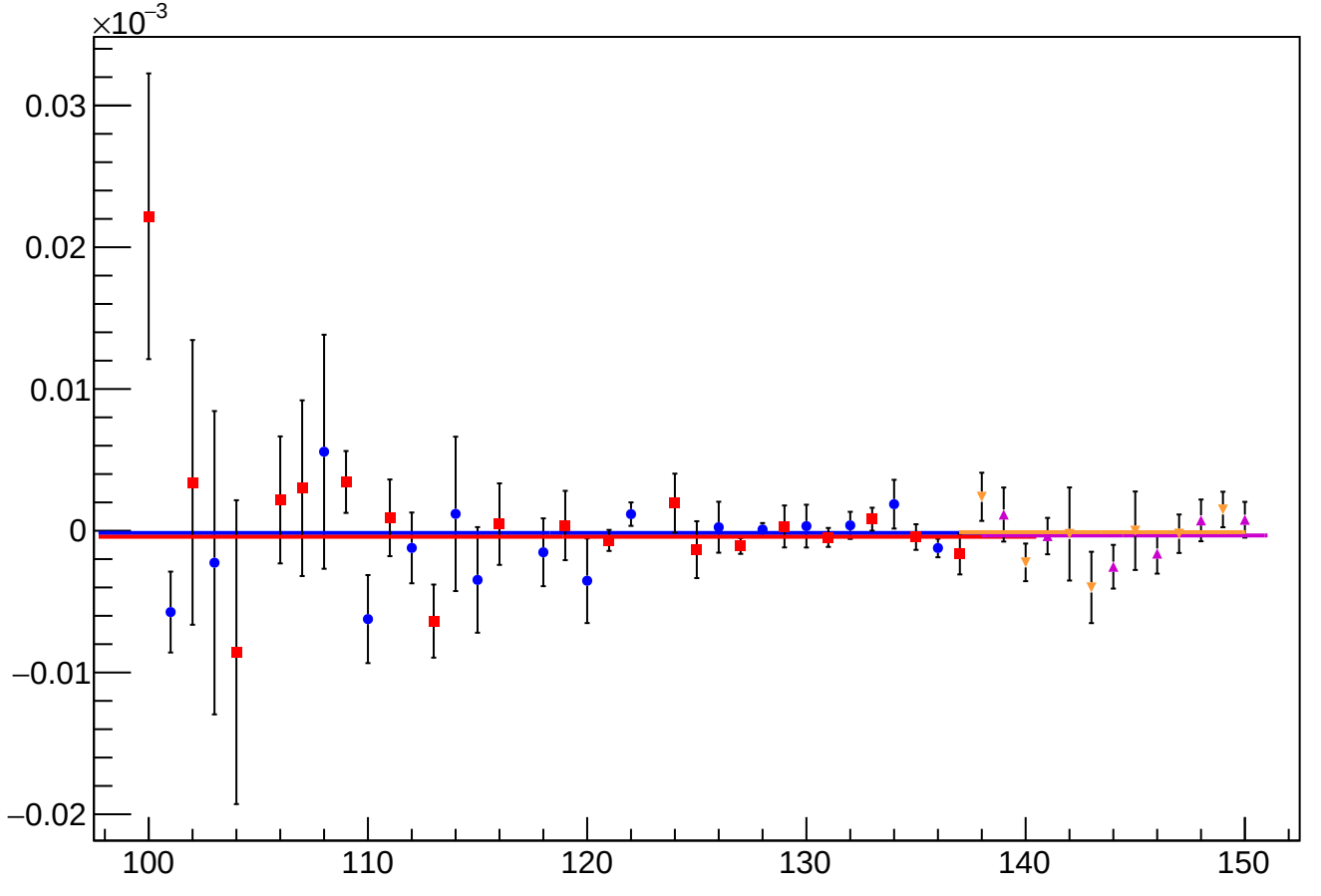
Left: 33.543+/-0.008 $\chi^2$/NDF: 1716707.8/12

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 34.057+/-0.008 $\chi^2$/NDF:1744513.1/21

Out: 33.039+/-0.008 $\chi^2$/NDF:3760296.4/25

All: 33.560+/-0.005 $\chi^2$/NDF: 5513411.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.8/5

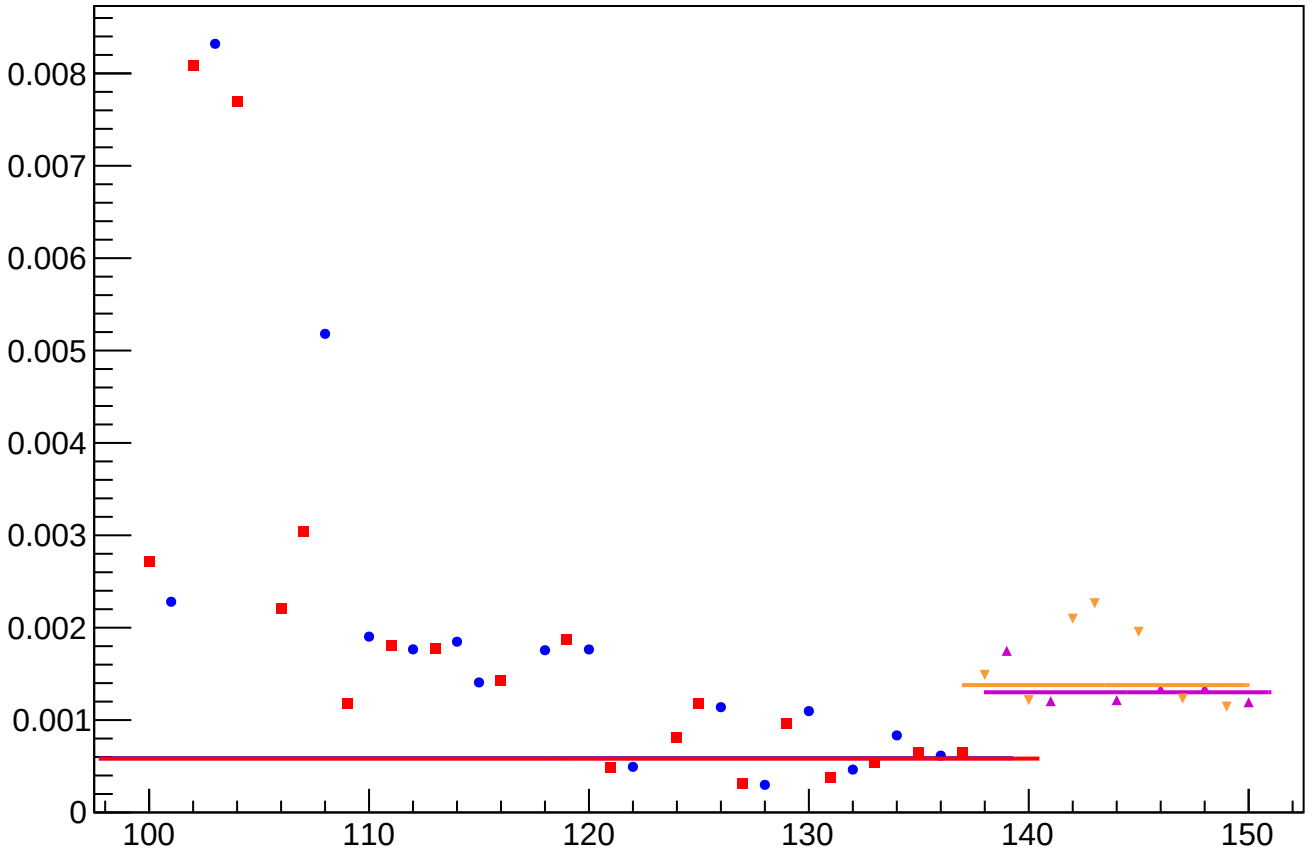
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:30.6/25

All: -0.000+/-0.000 $\chi^2$/NDF: 53.8/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 5485949.6/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:561366.9/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5431787.1/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:145601.9/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 723021.4/12

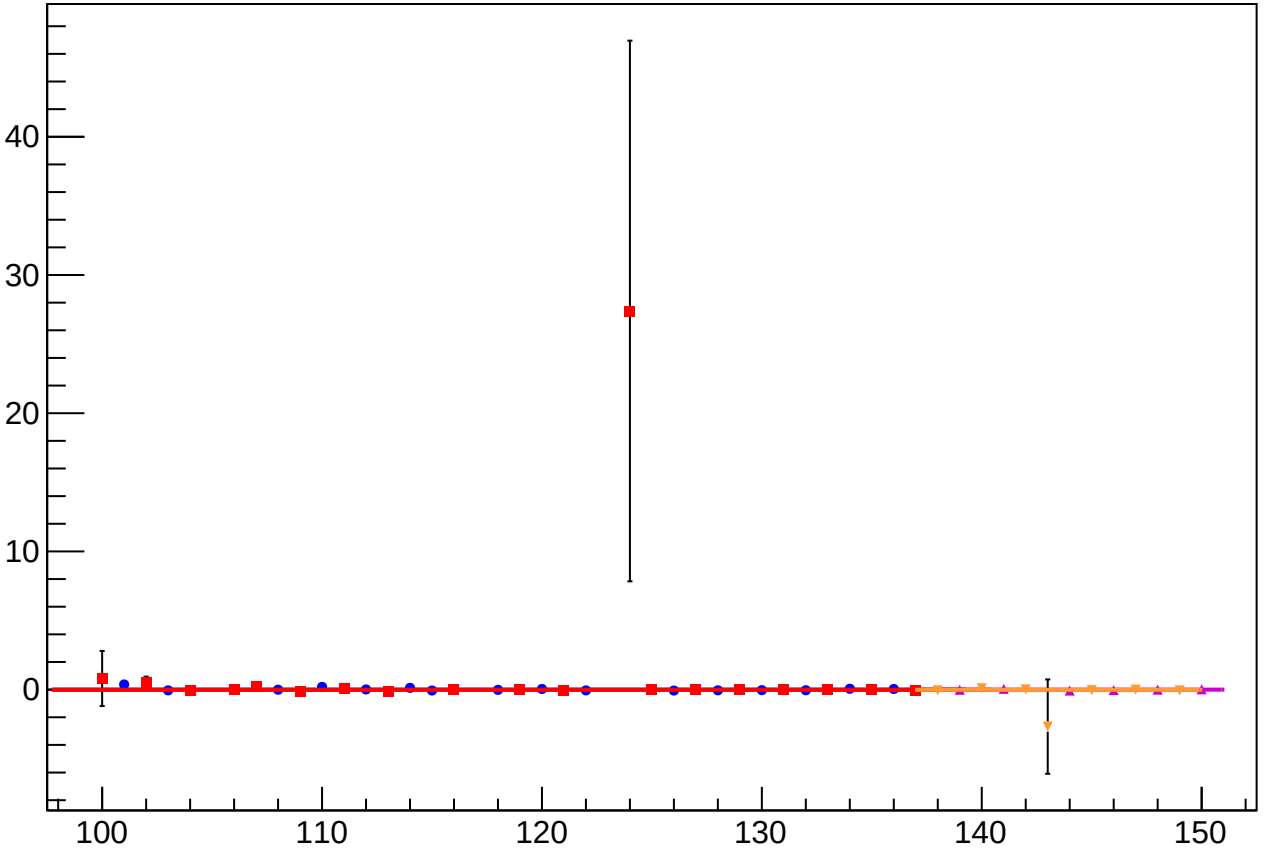
Right: 0.001+/-0.000 $\chi^2$/NDF: 10917885.2/34

In: 0.001+/-0.000 $\chi^2$/NDF:7994786.0/21

Out: 0.001+/-0.000 $\chi^2$/NDF:8600761.1/25

All: 0.001+/-0.000 $\chi^2$/NDF: 16598074.3/47

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.011+/-0.017 $\chi^2$/NDF:11.9/6

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.001+/-0.016 $\chi^2$/NDF:6.4/5

Left: -0.006+/-0.012 $\chi^2$/NDF: 18.5/12

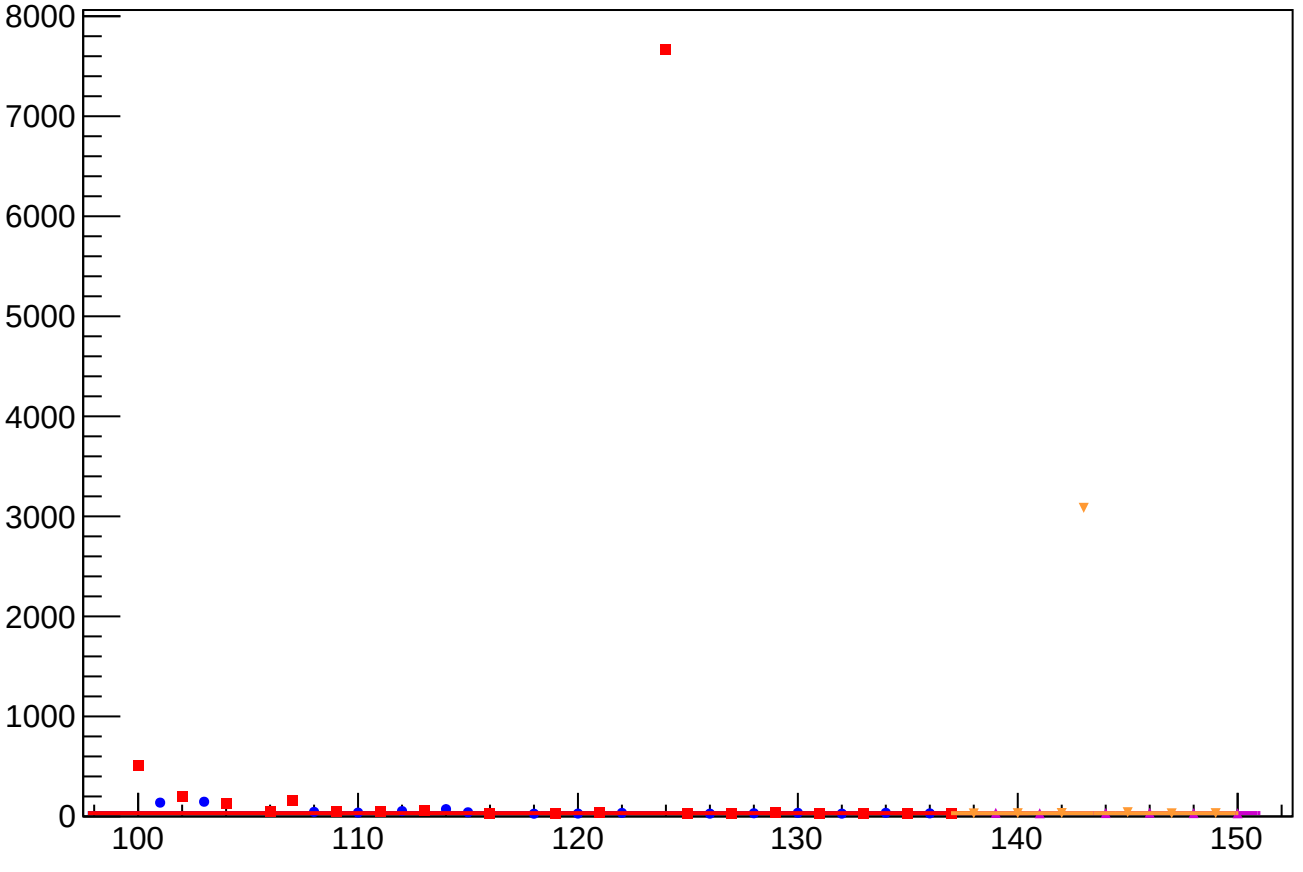
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.001+/-0.011 $\chi^2$/NDF:27.4/21

Out: -0.011+/-0.011 $\chi^2$/NDF:26.1/25

All: -0.005+/-0.008 $\chi^2$/NDF: 54.1/47

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717254.5/15

Left Out: 32.982+/-0.012 $\chi^2$/NDF:1685133.5/6

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 34.058+/-0.011 $\chi^2$/NDF:27248.4/5

Left: 33.543+/-0.008 $\chi^2$/NDF: 1716714.4/12

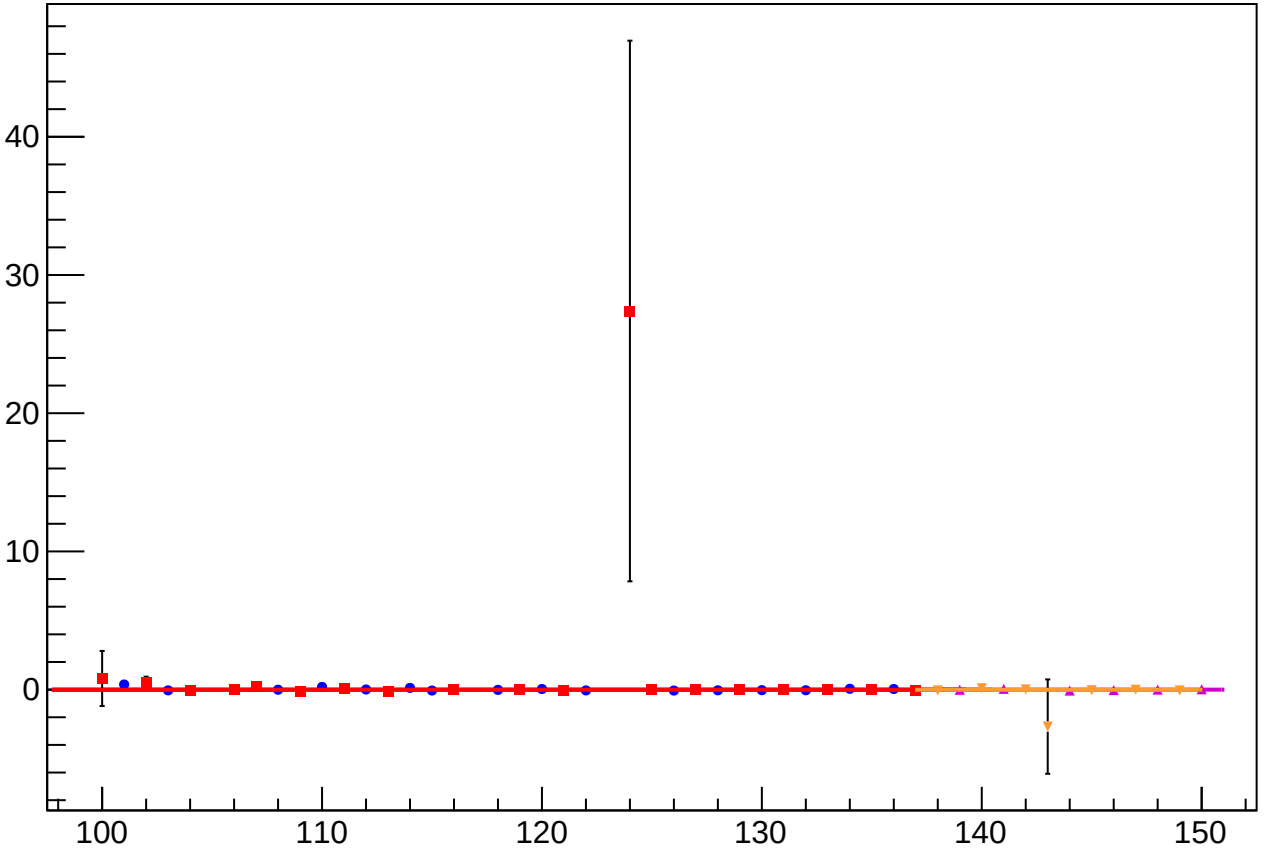
Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 34.057+/-0.008 $\chi^2$/NDF:1744502.9/21

Out: 33.038+/-0.008 $\chi^2$/NDF:3760280.8/25

All: 33.560+/-0.005 $\chi^2$/NDF: 5513389.0/47

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.011+/-0.017 $\chi^2$/NDF:11.9/6

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.001+/-0.016 $\chi^2$/NDF:6.4/5

Left: -0.006+/-0.012 $\chi^2$/NDF: 18.5/12

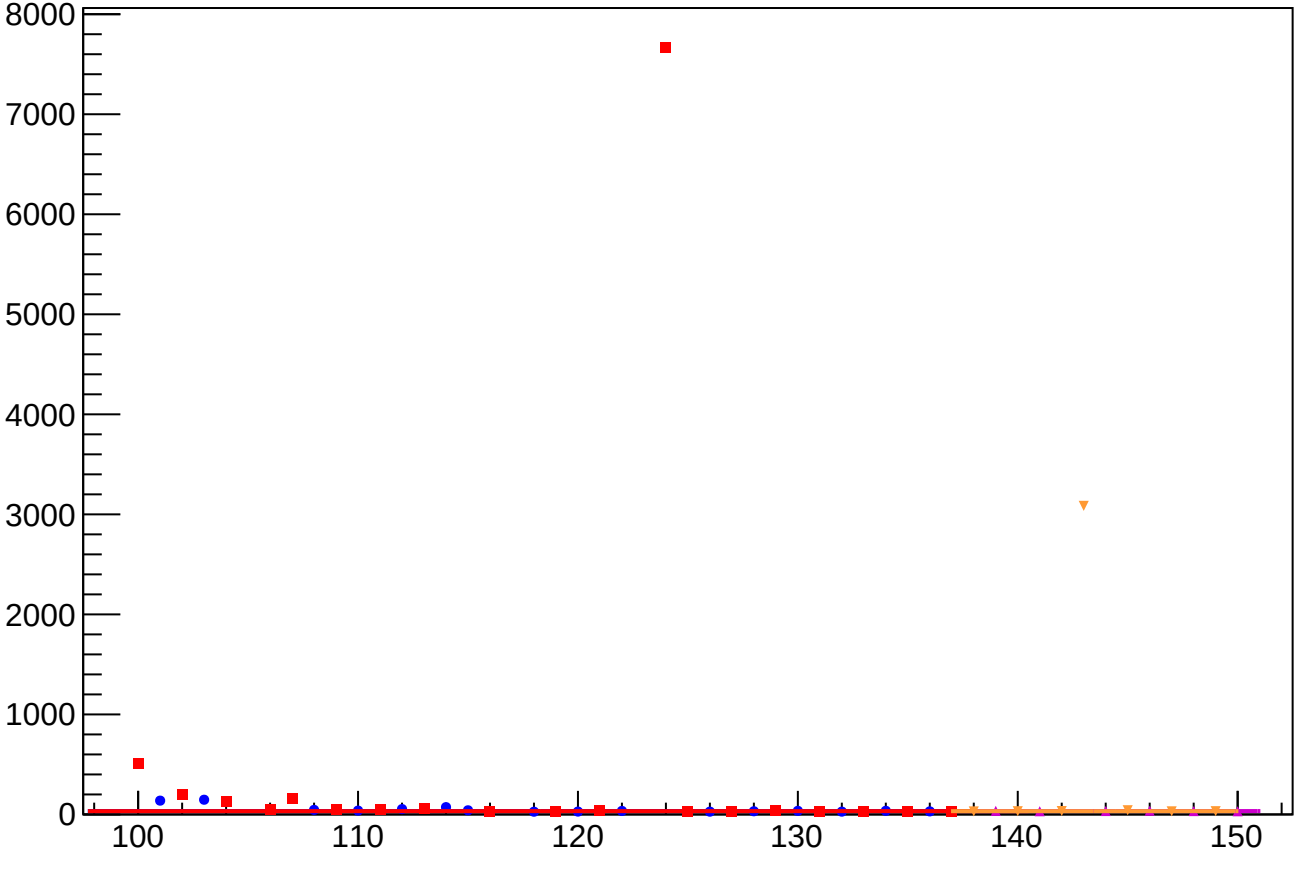
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.001+/-0.011 $\chi^2$/NDF:27.4/21

Out: -0.011+/-0.011 $\chi^2$/NDF:26.1/25

All: -0.005+/-0.008 $\chi^2$/NDF: 54.1/47

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717254.5/15

Left Out: 32.982+/-0.012 $\chi^2$/NDF:1685133.5/6

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 34.058+/-0.011 $\chi^2$/NDF:27248.4/5

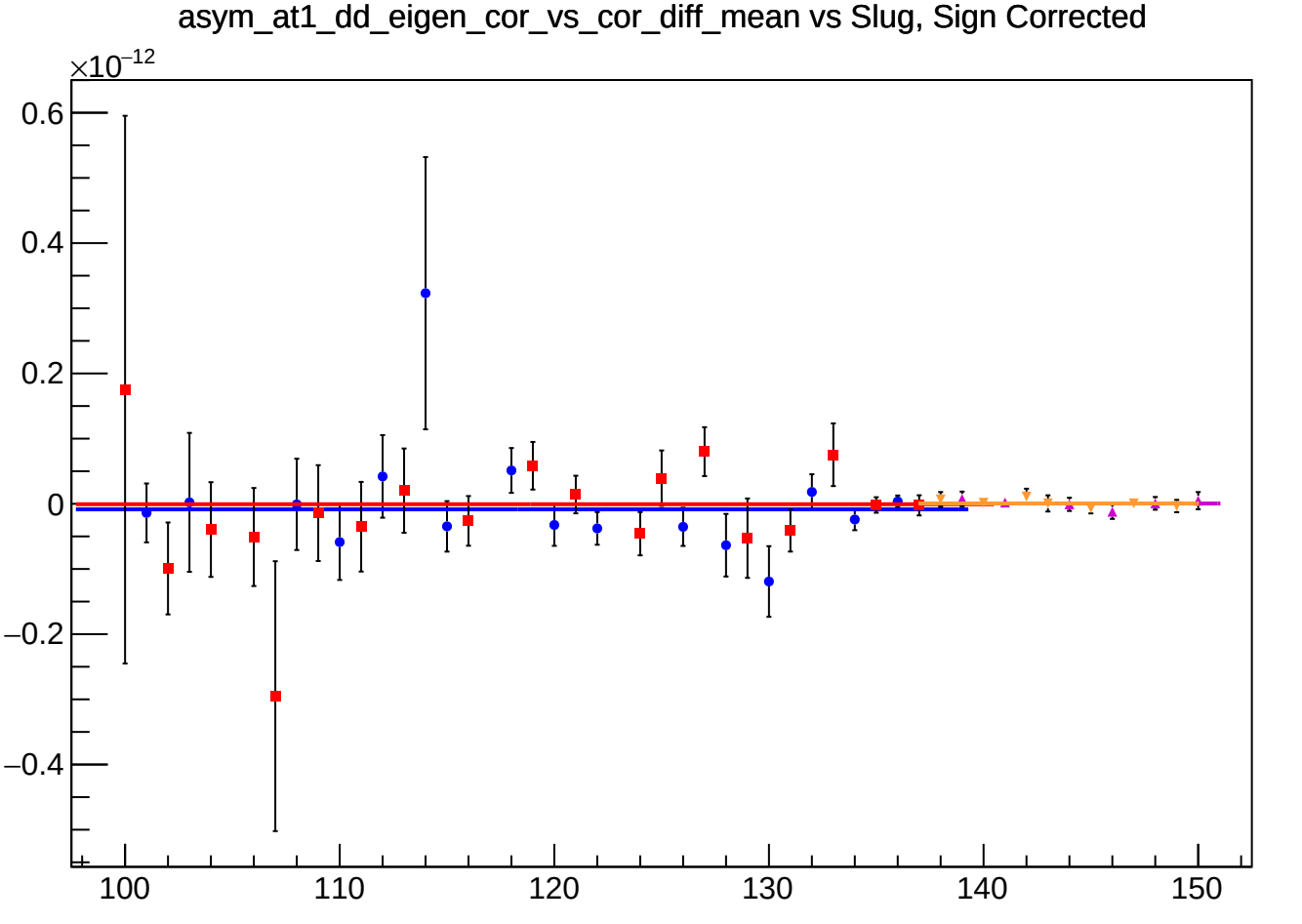
Left: 33.543+/-0.008 $\chi^2$/NDF: 1716714.4/12

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 34.057+/-0.008 $\chi^2$/NDF:1744502.9/21

Out: 33.038+/-0.008 $\chi^2$/NDF:3760280.8/25

All: 33.560+/-0.005 $\chi^2$/NDF: 5513389.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.9/5

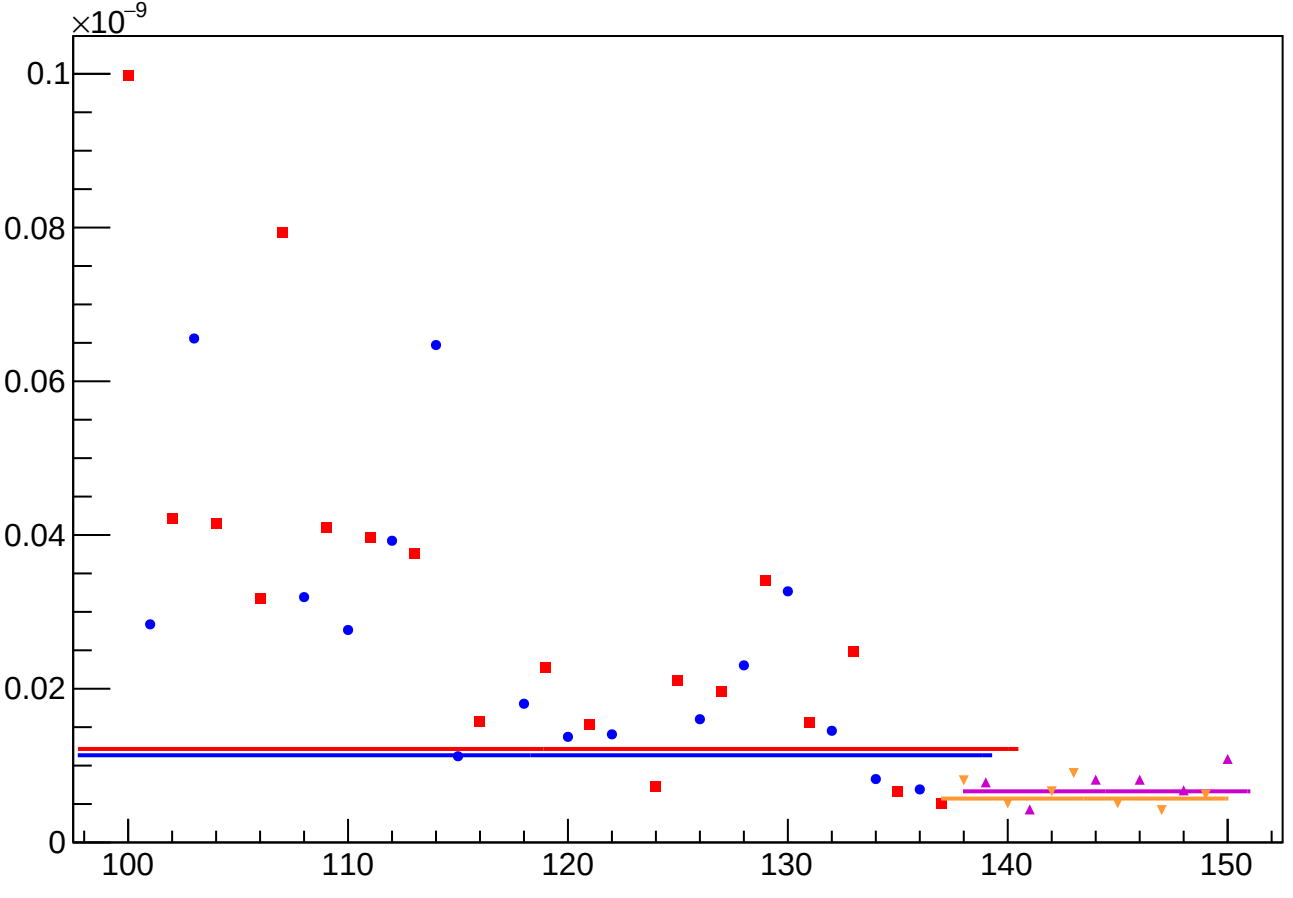
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 45.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2813598.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:363046.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3757412.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:601399.5/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1033370.7/12

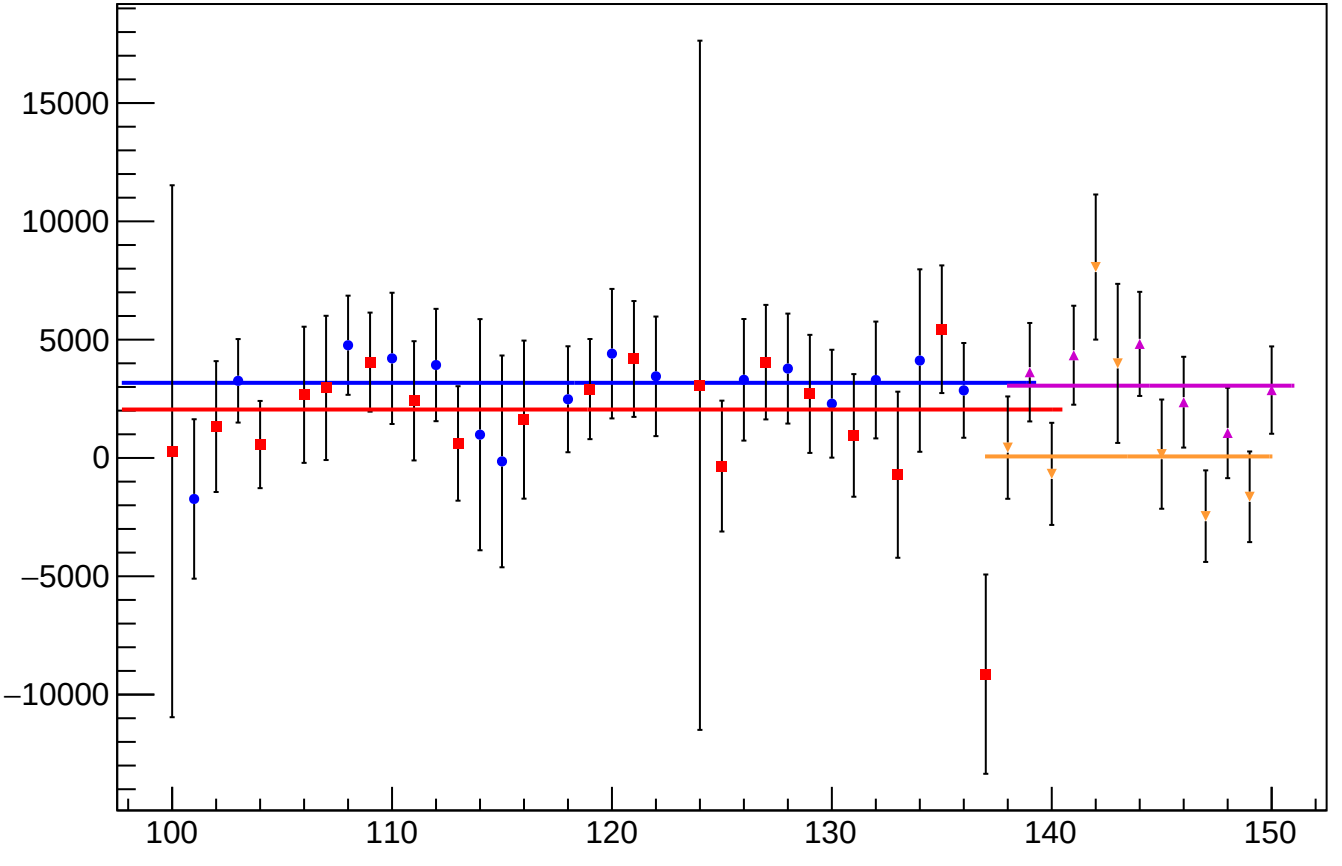
Right: 0.000+/-0.000 $\chi^2$/NDF: 6585389.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4207206.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5426801.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9743656.1/47

# reg_asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 3175.599+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 64.348+/-860.467 $\chi^2$/NDF:10.8/6

Right Out: 2047.403+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3054.557+/-815.132 $\chi^2$/NDF:2.3/5

Left: 1640.297+/-591.763 $\chi^2$/NDF: 19.5/12

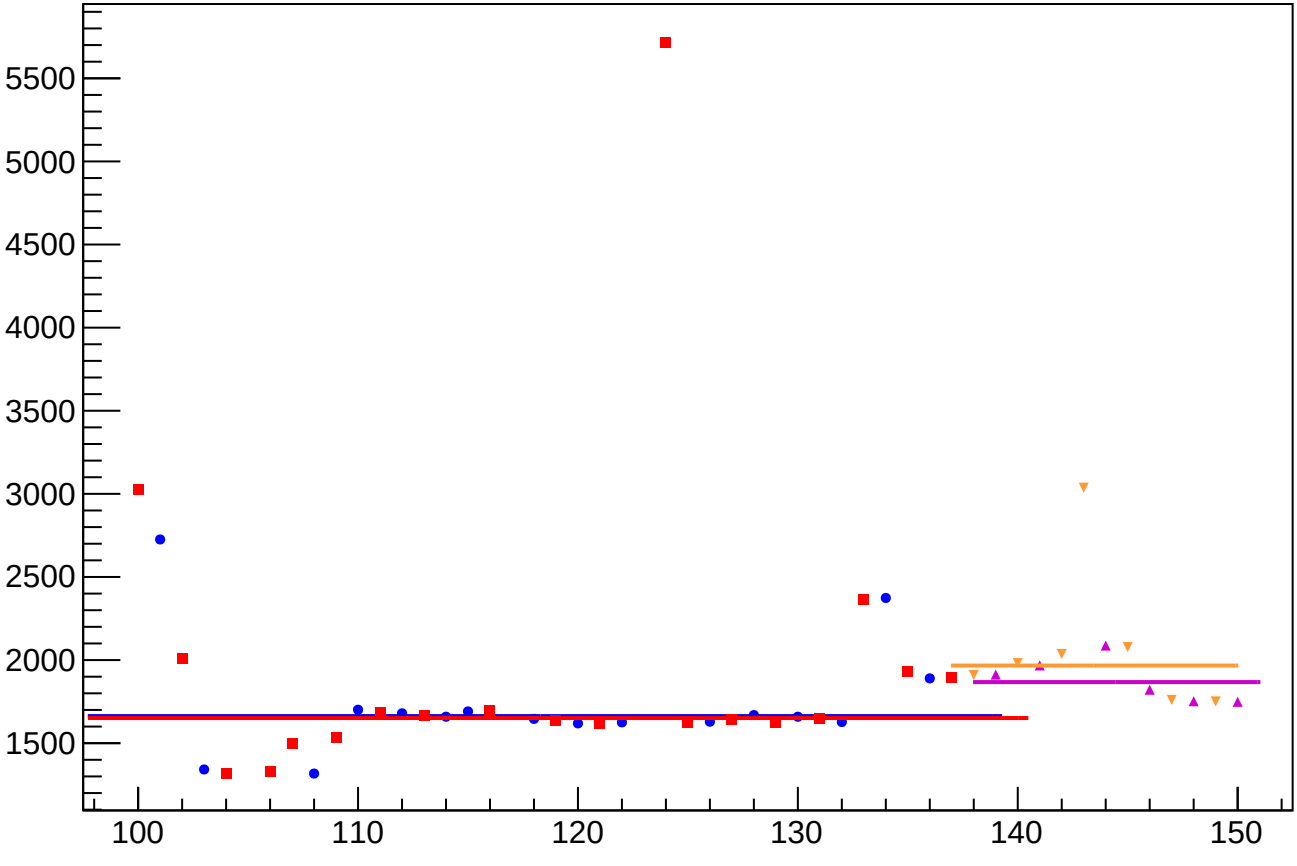
Right: 2605.638+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3130.515+/-497.476 $\chi^2$/NDF:6.7/21

Out: 1367.542+/-503.822 $\chi^2$/NDF:28.4/25

All: 2260.201+/-353.991 $\chi^2$/NDF: 41.2/47

# reg_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415630.7/15

Left Out: 1967.040+/-0.608 $\chi^2$/NDF:258096.5/6

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.1/18

Left In: 1867.605+/-0.576 $\chi^2$/NDF:42114.4/5

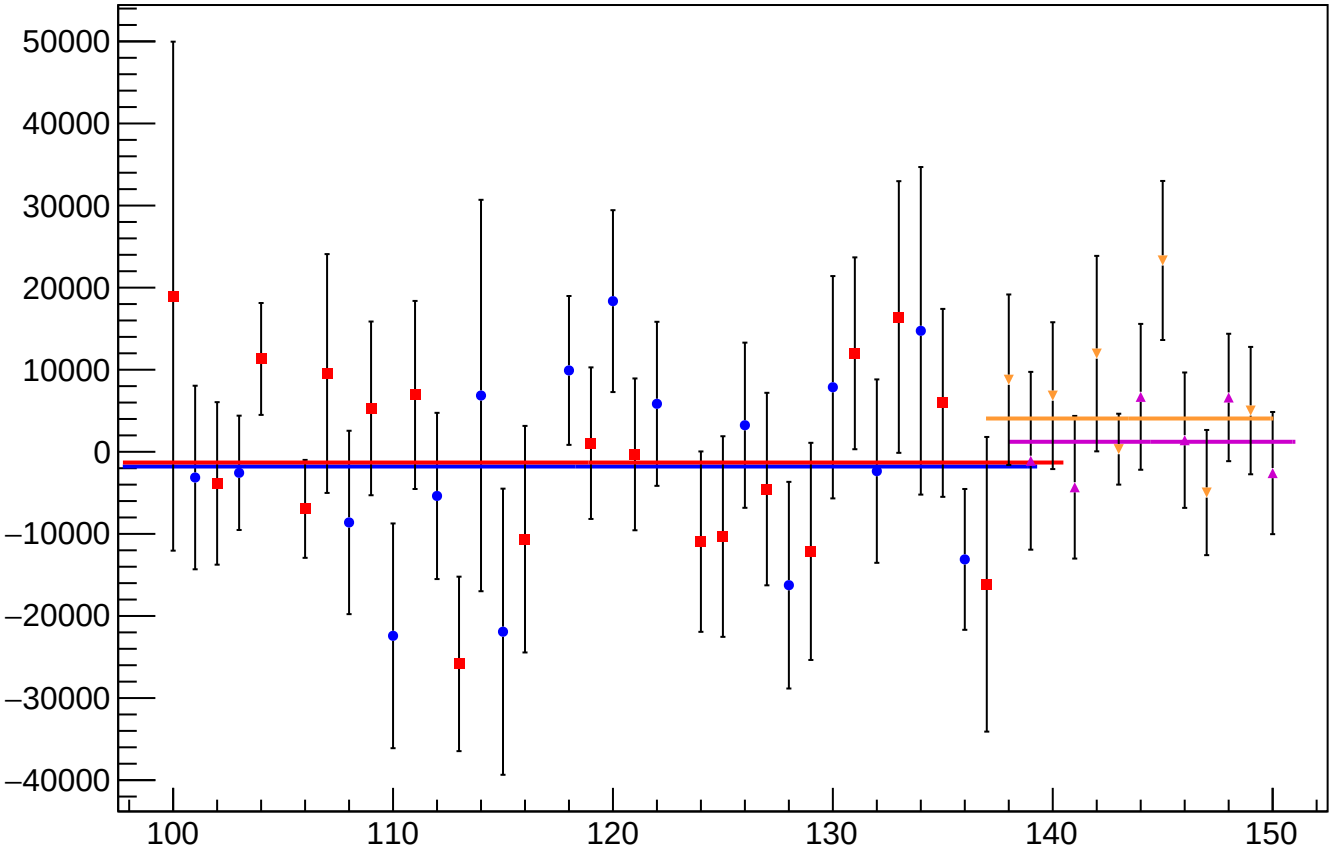
Left: 1914.634+/-0.418 $\chi^2$/NDF: 314286.9/12

Right: 1657.052+/-0.312 $\chi^2$/NDF: 847939.4/34

In: 1739.147+/-0.352 $\chi^2$/NDF:536897.3/21

Out: 1759.561+/-0.356 $\chi^2$/NDF:867005.7/25

All: 1749.225+/-0.250 $\chi^2$/NDF: 1405565.6/47




Right In: -1791.030+/-2743.617 $\chi^2$/NDF: 14.3/15

Left Out: 4056.517+/-2807.191 $\chi^2$/NDF:6.9/6

Right Out: -1306.311+/-2430.063 $\chi^2$/NDF: 17.7/18

Left In: 1220.782+/-3454.594 $\chi^2$/NDF:1.6/5

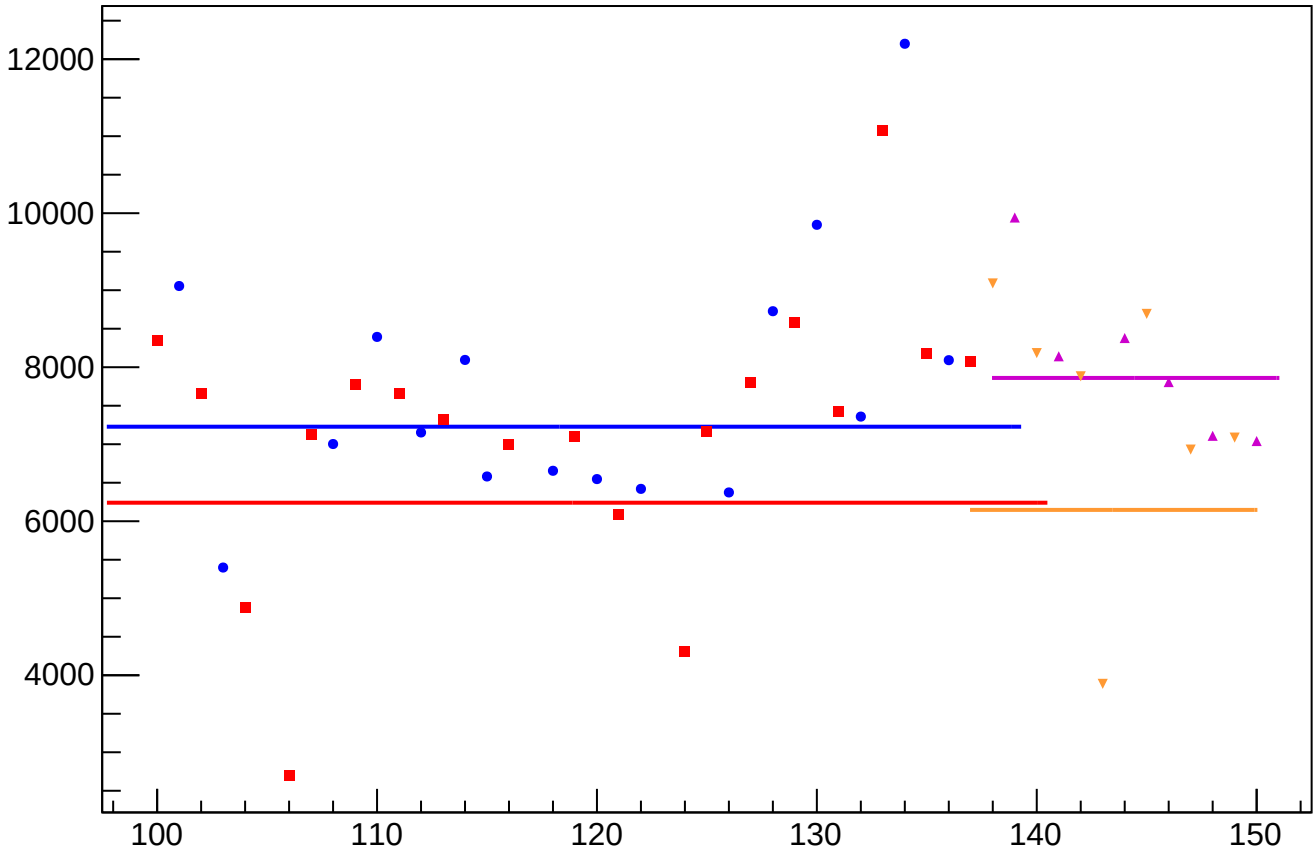
Left: 2928.734+/-2178.597 $\chi^2$/NDF: 8.8/12

Right: -1519.402+/-1819.116 $\chi^2$/NDF: 32.1/34

In: -626.112+/-2148.477 $\chi^2$/NDF:16.4/21

Out: 990.925+/-1837.291 $\chi^2$/NDF:26.7/25

All: 307.891+/-1396.342 $\chi^2$/NDF: 43.4/47




Right In: 7227.590+/-1.940 $\chi^2$/NDF: 503260.9/15

Left Out: 6147.145+/-1.985 $\chi^2$/NDF:1041930.8/6

Right Out: 6240.557+/-1.718 $\chi^2$/NDF: 1399077.4/18

Left In: 7860.803+/-2.443 $\chi^2$/NDF:125966.1/5

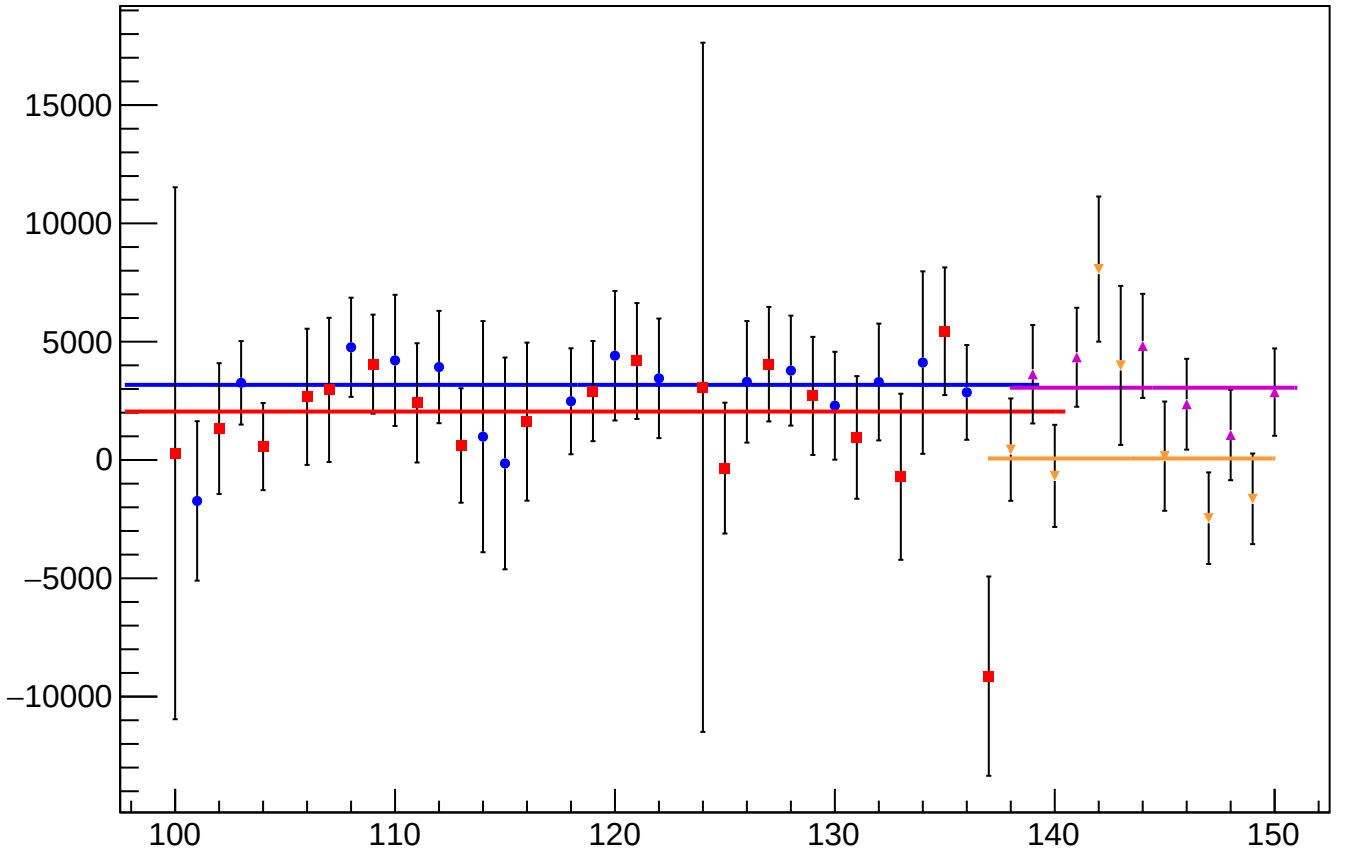
Left: 6828.674+/-1.541 $\chi^2$/NDF: 1464307.9/12

Right: 6674.473+/-1.286 $\chi^2$/NDF: 2047393.1/34

In: 7472.506+/-1.519 $\chi^2$/NDF:670432.0/21

Out: 6200.543+/-1.299 $\chi^2$/NDF:2442274.2/25

All: 6737.819+/-0.987 $\chi^2$/NDF: 3517604.6/47




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 64.385+/-860.467 $\chi^2$/NDF:10.8/6

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3054.726+/-815.132 $\chi^2$/NDF:2.3/5

Left: 1640.403+/-591.763 $\chi^2$/NDF: 19.5/12

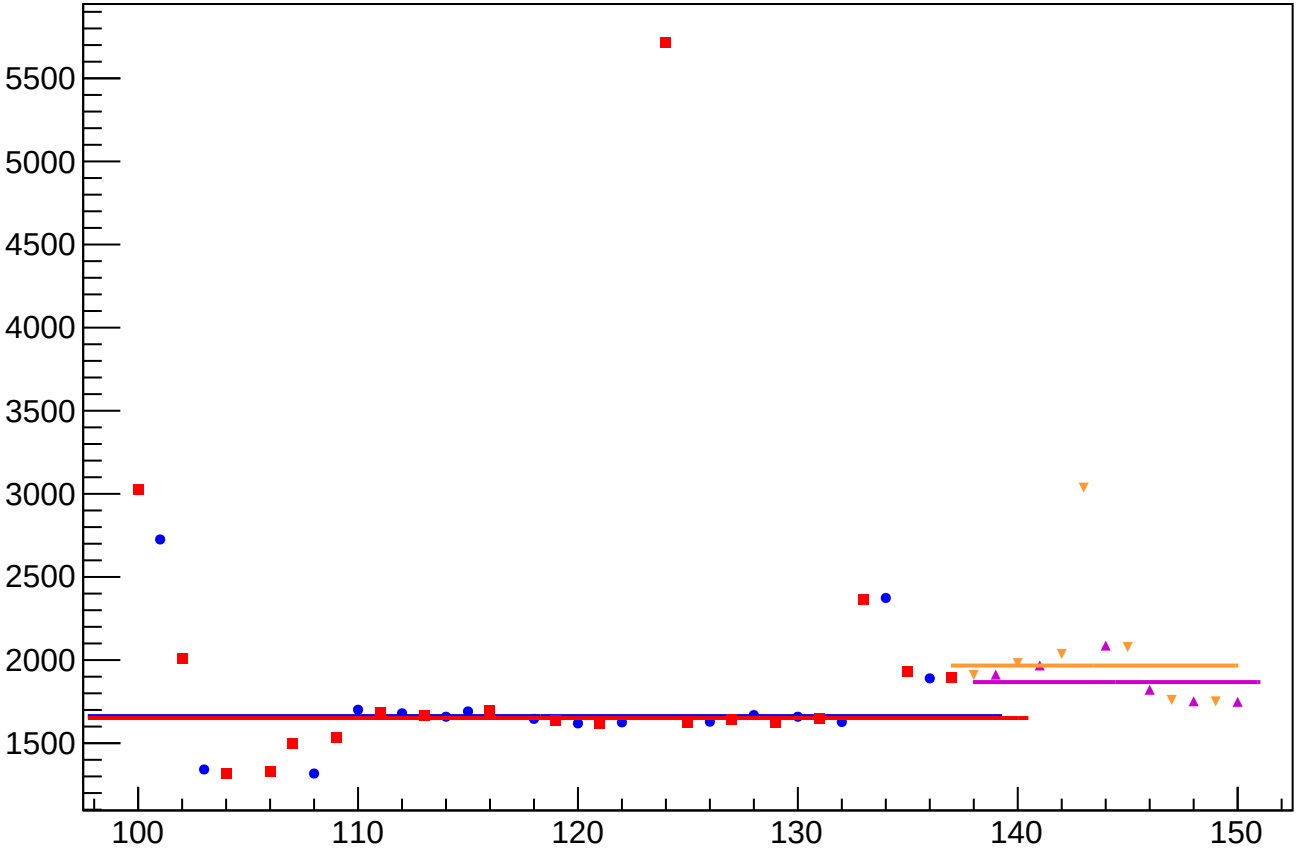
Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3130.634+/-497.476 $\chi^2$/NDF:6.7/21

Out: 1367.427+/-503.822 $\chi^2$/NDF:28.4/25

All: 2260.204+/-353.991 $\chi^2$/NDF: 41.2/47

# cor_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 1967.040+/-0.608 $\chi^2$/NDF:258096.5/6

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1867.605+/-0.576 $\chi^2$/NDF:42114.4/5

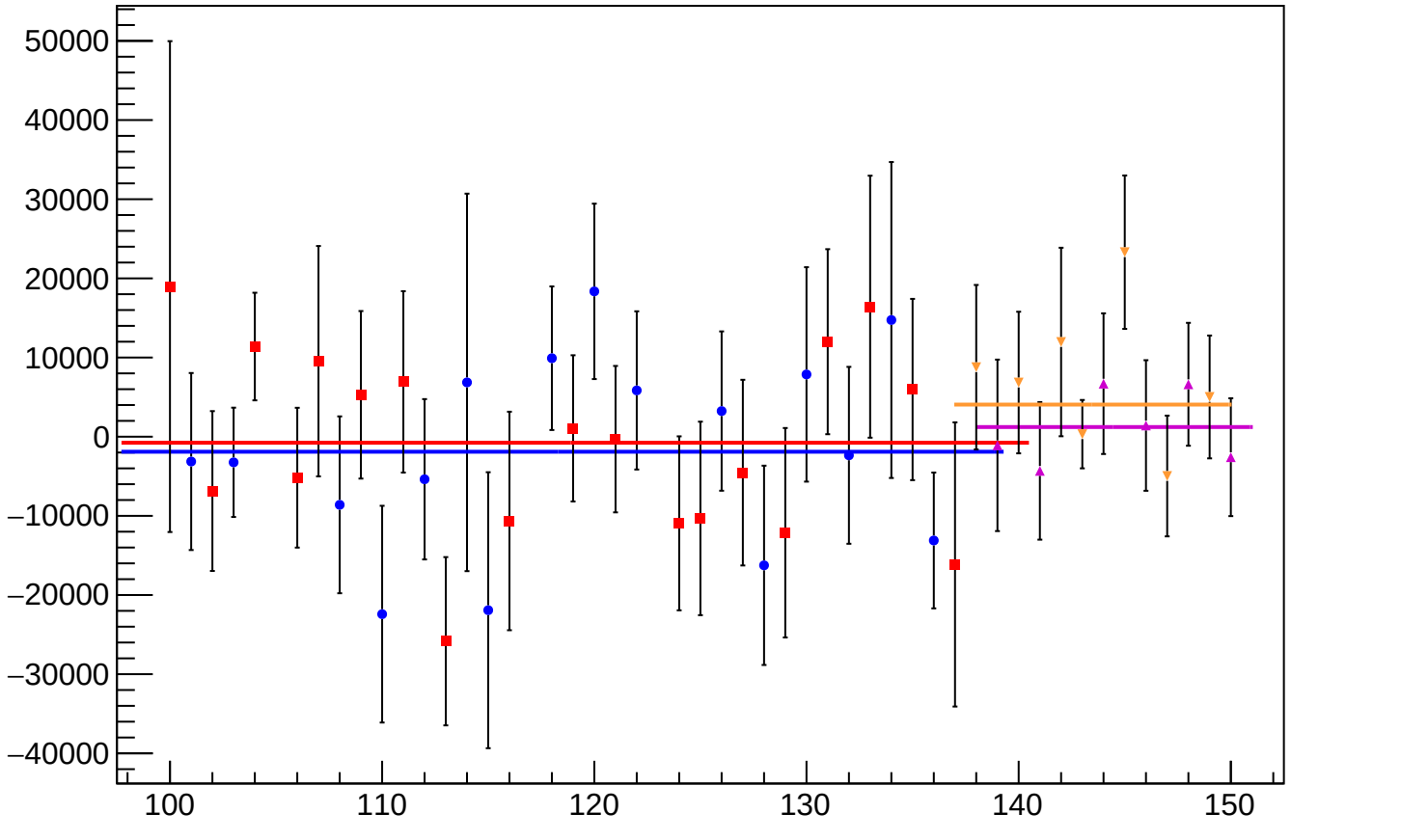
Left: 1914.634+/-0.418 $\chi^2$/NDF: 314286.9/12

Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

In: 1739.147+/-0.352 $\chi^2$/NDF:536897.8/21

Out: 1759.561+/-0.356 $\chi^2$/NDF:867006.0/25

All: 1749.225+/-0.250 $\chi^2$/NDF: 1405566.3/47




Right In: -1900.125+/-2739.954 $\chi^2$/NDF: 14.4/15

Left Out: 4056.393+/-2807.176 $\chi^2$/NDF:6.9/6

Right Out: -762.513+/-2549.943 $\chi^2$/NDF: 17.3/18

Left In: 1220.899+/-3454.591 $\chi^2$/NDF:1.6/5

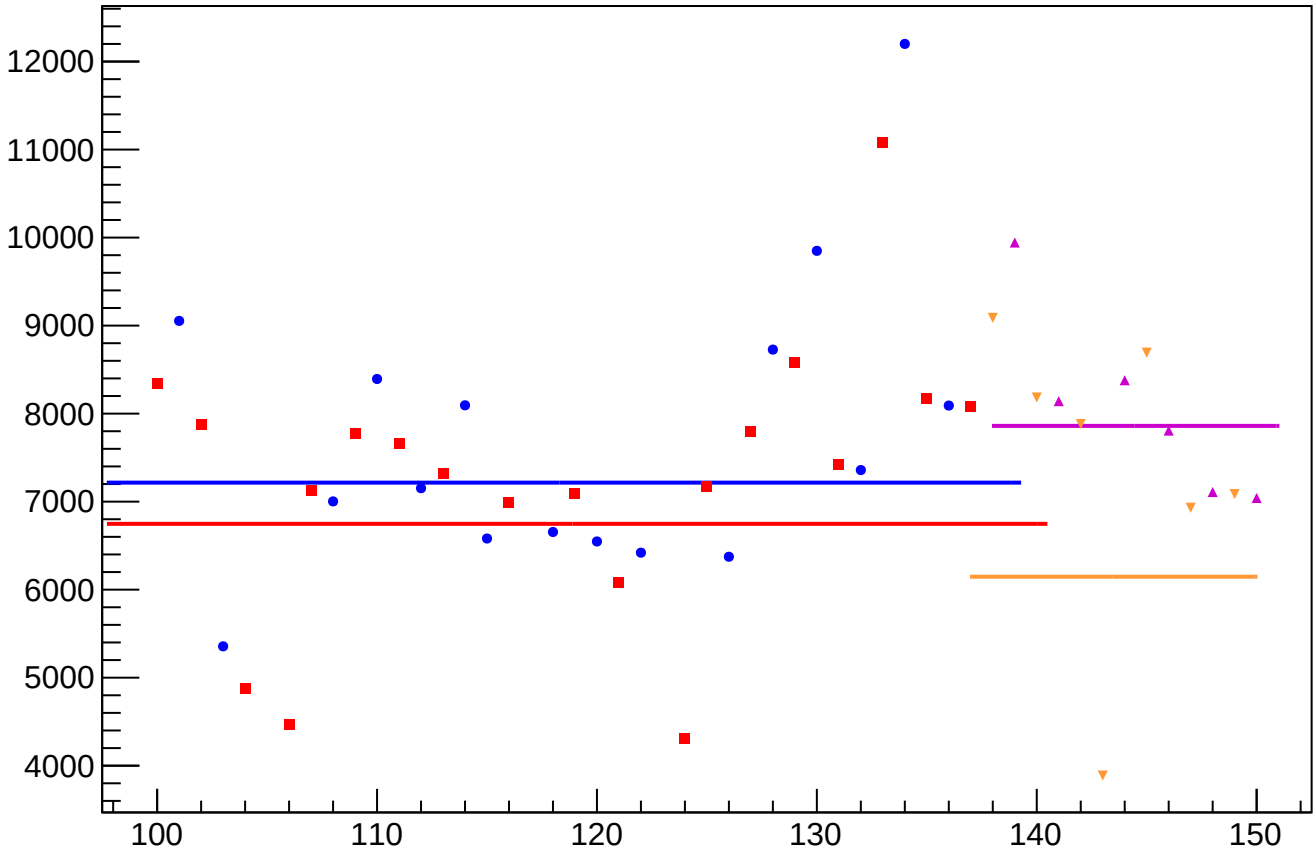
Left: 2928.712+/-2178.589 $\chi^2$/NDF: 8.8/12

Right: -1290.509+/-1866.644 $\chi^2$/NDF: 31.7/34

In: -694.943+/-2146.716 $\chi^2$/NDF:16.4/21

Out: 1416.083+/-1887.486 $\chi^2$/NDF:25.8/25

All: 495.663+/-1417.493 $\chi^2$/NDF: 42.7/47




Right In: 7216.029+/-1.937 $\chi^2$/NDF: 512126.4/15

Left Out: 6147.104+/-1.985 $\chi^2$/NDF:1041957.7/6

Right Out: 6747.736+/-1.803 $\chi^2$/NDF: 708793.3/18

Left In: 7860.797+/-2.443 $\chi^2$/NDF:125966.3/5

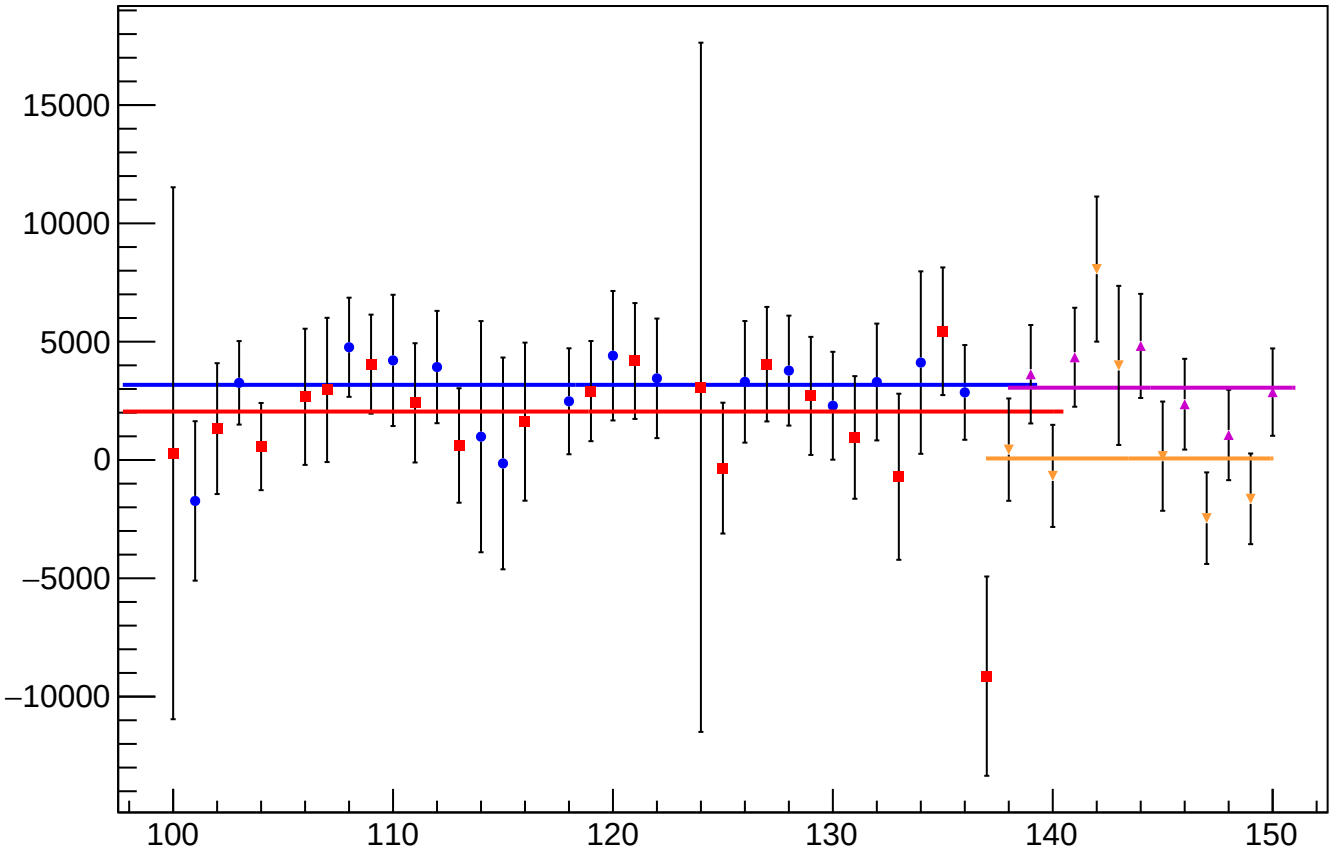
Left: 6828.642+/-1.540 $\chi^2$/NDF: 1464348.7/12

Right: 6965.084+/-1.320 $\chi^2$/NDF: 1252226.6/34

In: 7465.006+/-1.518 $\chi^2$/NDF:680859.3/21

Out: 6476.194+/-1.335 $\chi^2$/NDF:1800917.7/25

All: 6907.322+/-1.002 $\chi^2$/NDF: 2721099.0/47




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 64.385+/-860.467 $\chi^2$/NDF:10.8/6

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3054.726+/-815.132 $\chi^2$/NDF:2.3/5

Left: 1640.403+/-591.763 $\chi^2$/NDF: 19.5/12

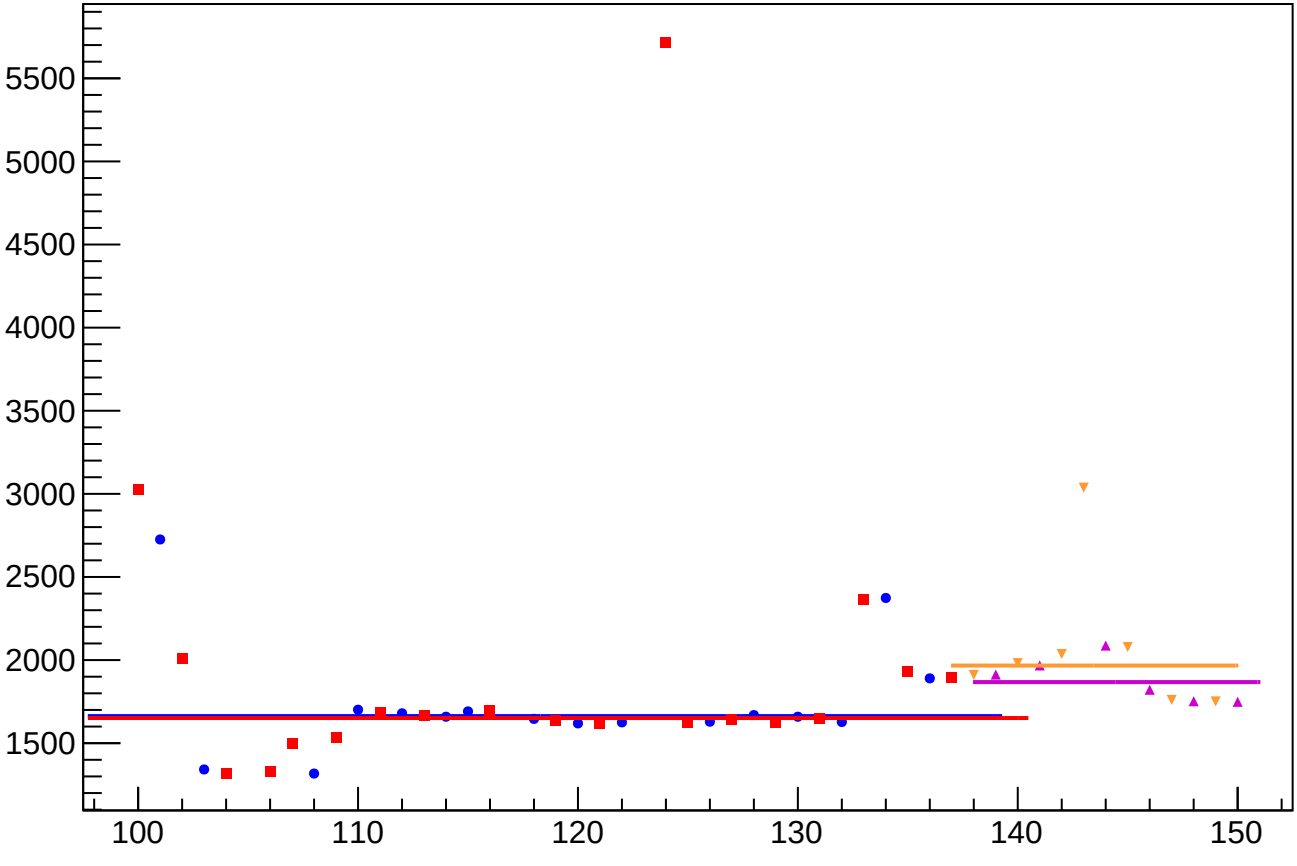
Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3130.634+/-497.476 $\chi^2$/NDF:6.7/21

Out: 1367.427+/-503.822 $\chi^2$/NDF:28.4/25

All: 2260.204+/-353.991 $\chi^2$/NDF: 41.2/47

# eigen_cor_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 1967.040+/-0.608 $\chi^2$/NDF:258096.5/6

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1867.605+/-0.576 $\chi^2$/NDF:42114.4/5

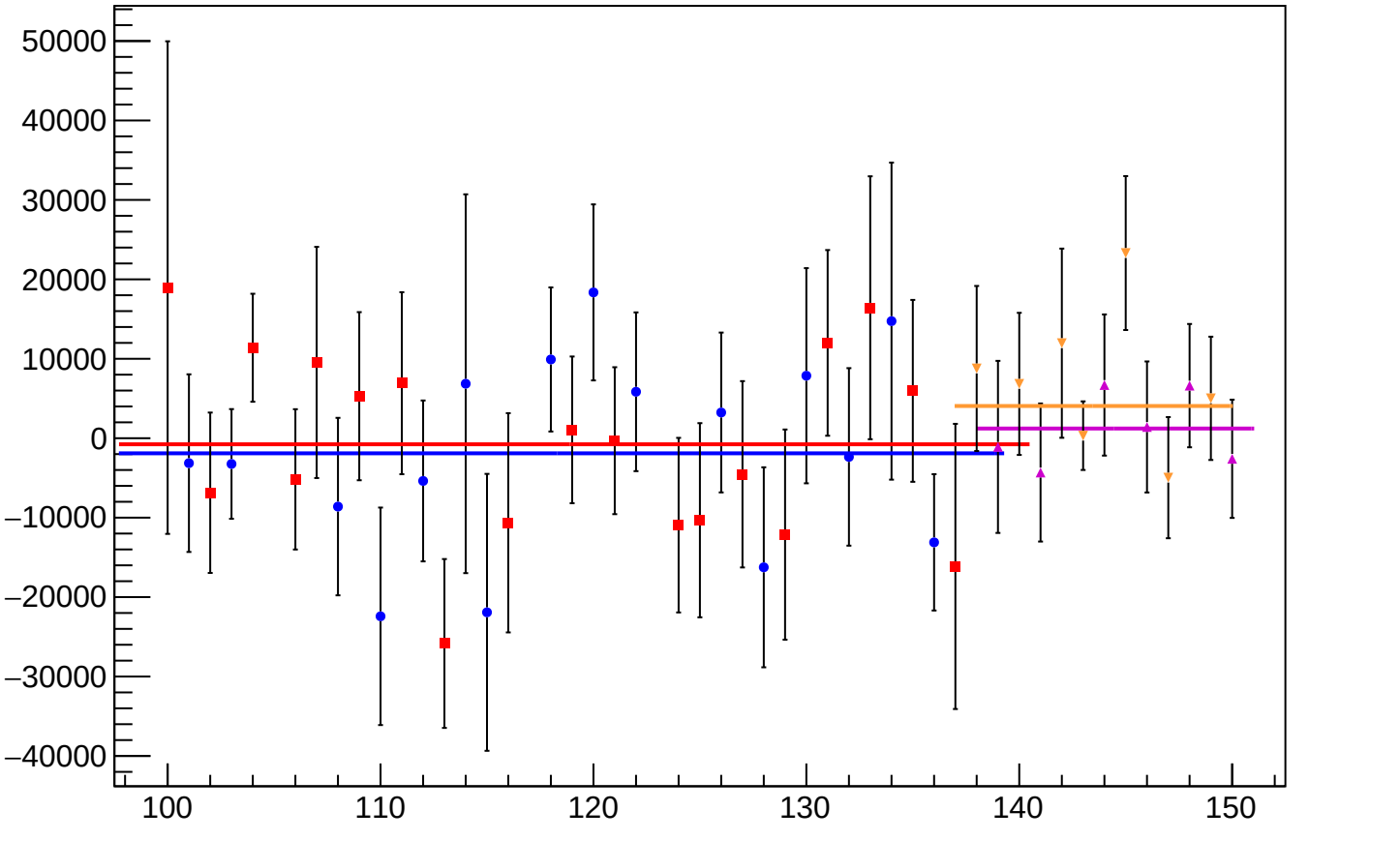
Left: 1914.634+/-0.418 $\chi^2$/NDF: 314286.9/12

Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

In: 1739.147+/-0.352 $\chi^2$/NDF:536897.8/21

Out: 1759.561+/-0.356 $\chi^2$/NDF:867006.0/25

All: 1749.225+/-0.250 $\chi^2$/NDF: 1405566.3/47




Right In: -1900.125+/-2739.954 $\chi^2$/NDF: 14.4/15

Left Out: 4056.393+/-2807.176 $\chi^2$/NDF:6.9/6

Right Out: -762.513+/-2549.943 $\chi^2$/NDF: 17.3/18

Left In: 1220.899+/-3454.591 $\chi^2$/NDF:1.6/5

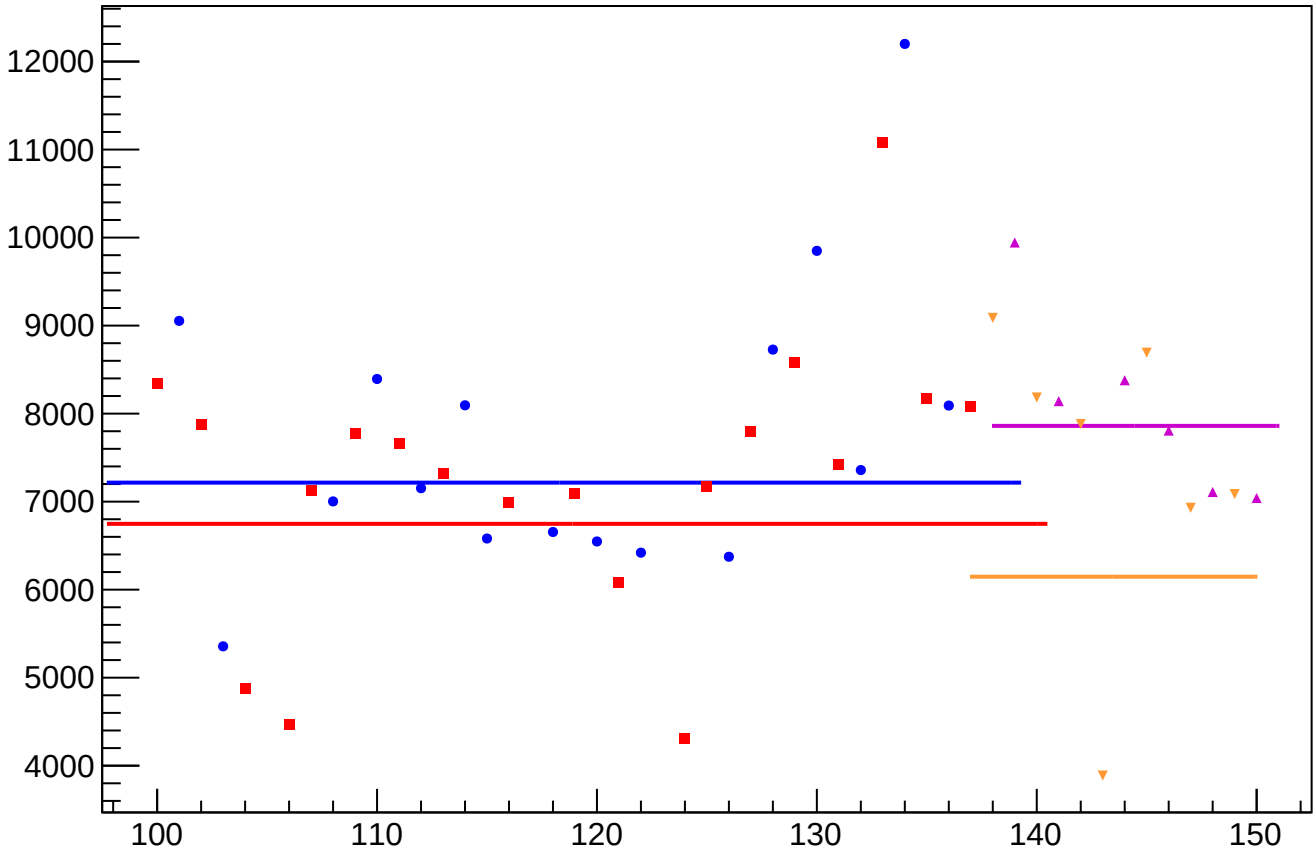
Left: 2928.712+/-2178.589 $\chi^2$/NDF: 8.8/12

Right: -1290.509+/-1866.644 $\chi^2$/NDF: 31.7/34

In: -694.943+/-2146.716 $\chi^2$/NDF:16.4/21

Out: 1416.083+/-1887.486 $\chi^2$/NDF:25.8/25

All: 495.663+/-1417.493 $\chi^2$/NDF: 42.7/47




Right In: 7216.029+/-1.937 $\chi^2$/NDF: 512126.4/15

Left Out: 6147.104+/-1.985 $\chi^2$/NDF:1041957.7/6

Right Out: 6747.736+/-1.803 $\chi^2$/NDF: 708793.3/18

Left In: 7860.797+/-2.443 $\chi^2$/NDF:125966.3/5

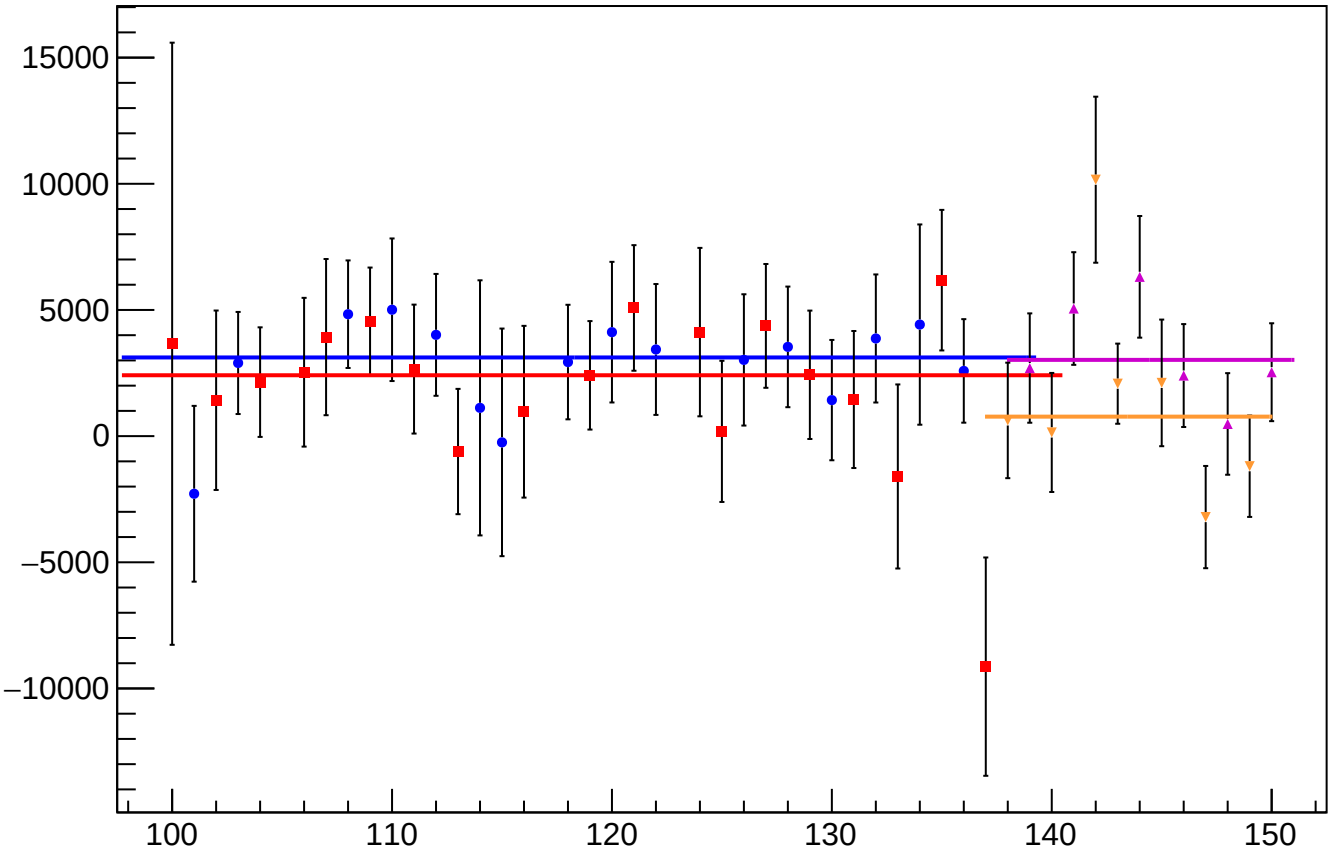
Left: 6828.642+/-1.540 $\chi^2$/NDF: 1464348.7/12

Right: 6965.084+/-1.320 $\chi^2$/NDF: 1252226.6/34

In: 7465.006+/-1.518 $\chi^2$/NDF:680859.3/21

Out: 6476.194+/-1.335 $\chi^2$/NDF:1800917.7/25

All: 6907.322+/-1.002 $\chi^2$/NDF: 2721099.0/47




Right In: 3117.878+/-651.119 $\chi^2$/NDF: 5.3/15

Left Out: 772.432+/-813.865 $\chi^2$/NDF:14.0/6

Right Out: 2412.473+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 3021.660+/-864.228 $\chi^2$/NDF:4.5/5

Left: 1829.603+/-592.494 $\chi^2$/NDF: 22.0/12

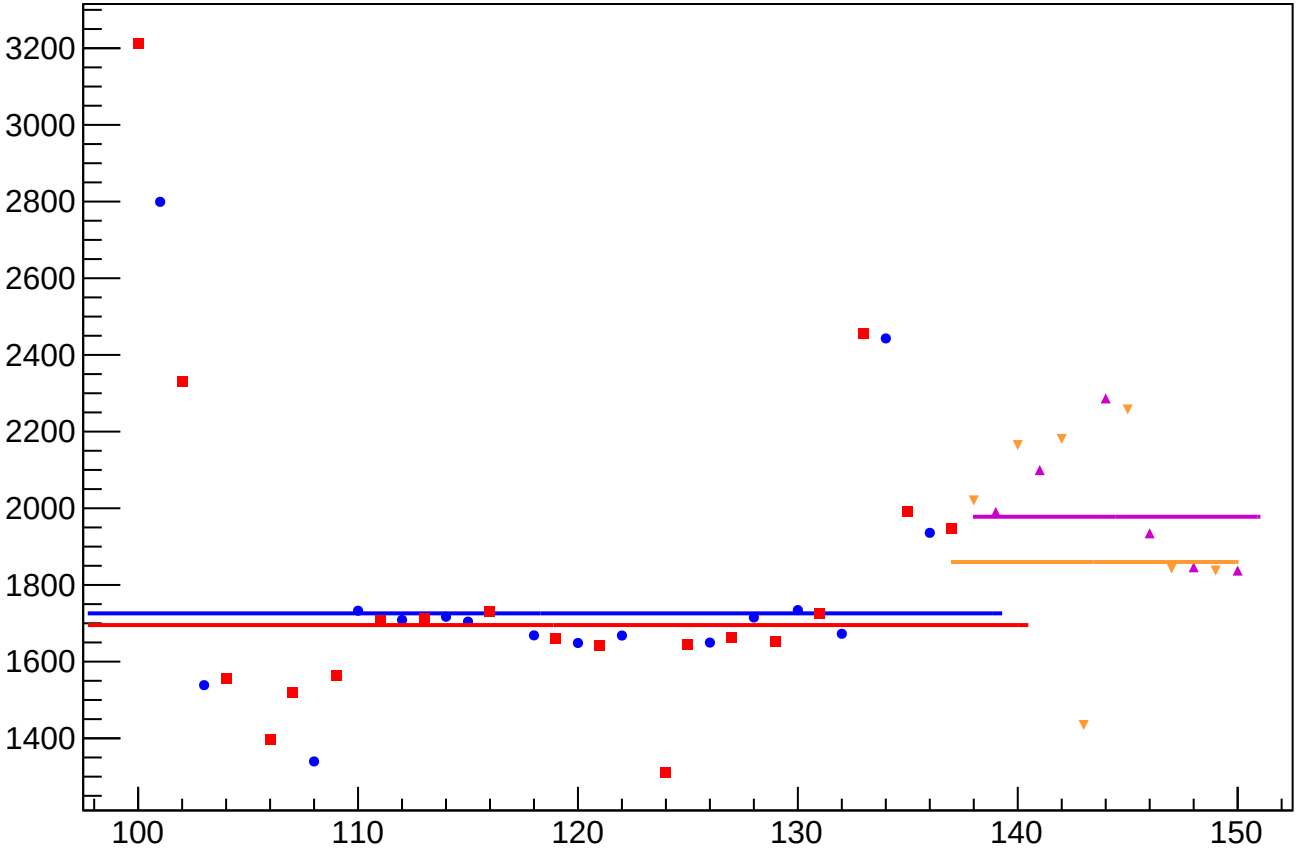
Right: 2758.560+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3083.038+/-520.042 $\chi^2$/NDF:9.8/21

Out: 1787.005+/-502.606 $\chi^2$/NDF:32.5/25

All: 2412.930+/-361.403 $\chi^2$/NDF: 45.5/47

# dit_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1725.911+/-0.460 $\chi^2$/NDF: 365638.9/15

Left Out: 1859.802+/-0.575 $\chi^2$/NDF:256379.9/6

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.0/18

Left In: 1977.927+/-0.611 $\chi^2$/NDF:58782.0/5

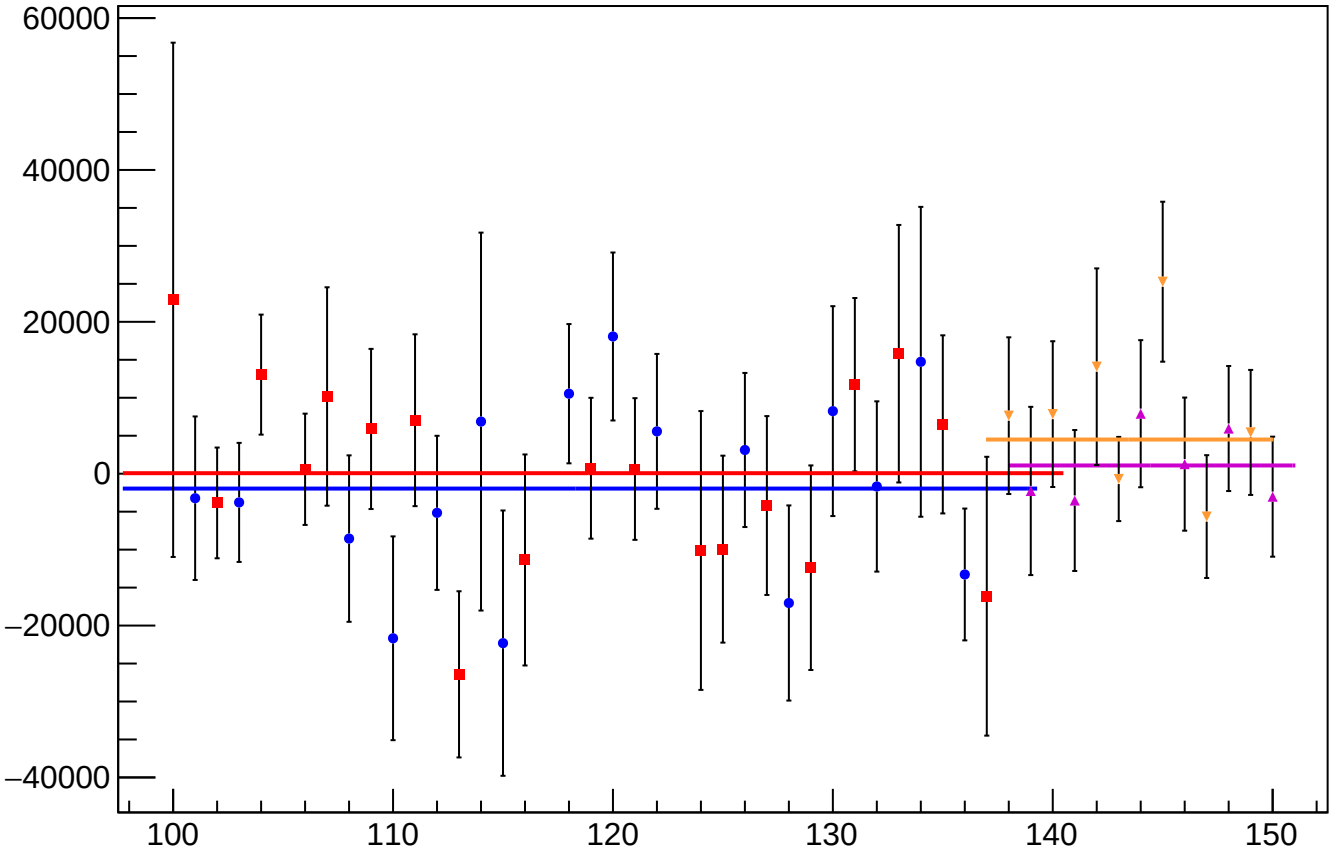
Left: 1915.322+/-0.419 $\chi^2$/NDF: 334964.5/12

Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.6/34

In: 1817.164+/-0.368 $\chi^2$/NDF:532910.3/21

Out: 1758.062+/-0.355 $\chi^2$/NDF:592509.7/25

All: 1786.599+/-0.256 $\chi^2$/NDF: 1138779.4/47




Right In: -1958.559+/-2798.309 $\chi^2$/NDF: 14.4/15

Left Out: 4498.051+/-3197.321 $\chi^2$/NDF:7.1/6

Right Out: 68.156+/-2529.527 $\chi^2$/NDF: 16.1/18

Left In: 1083.998+/-3671.126 $\chi^2$/NDF:1.5/5

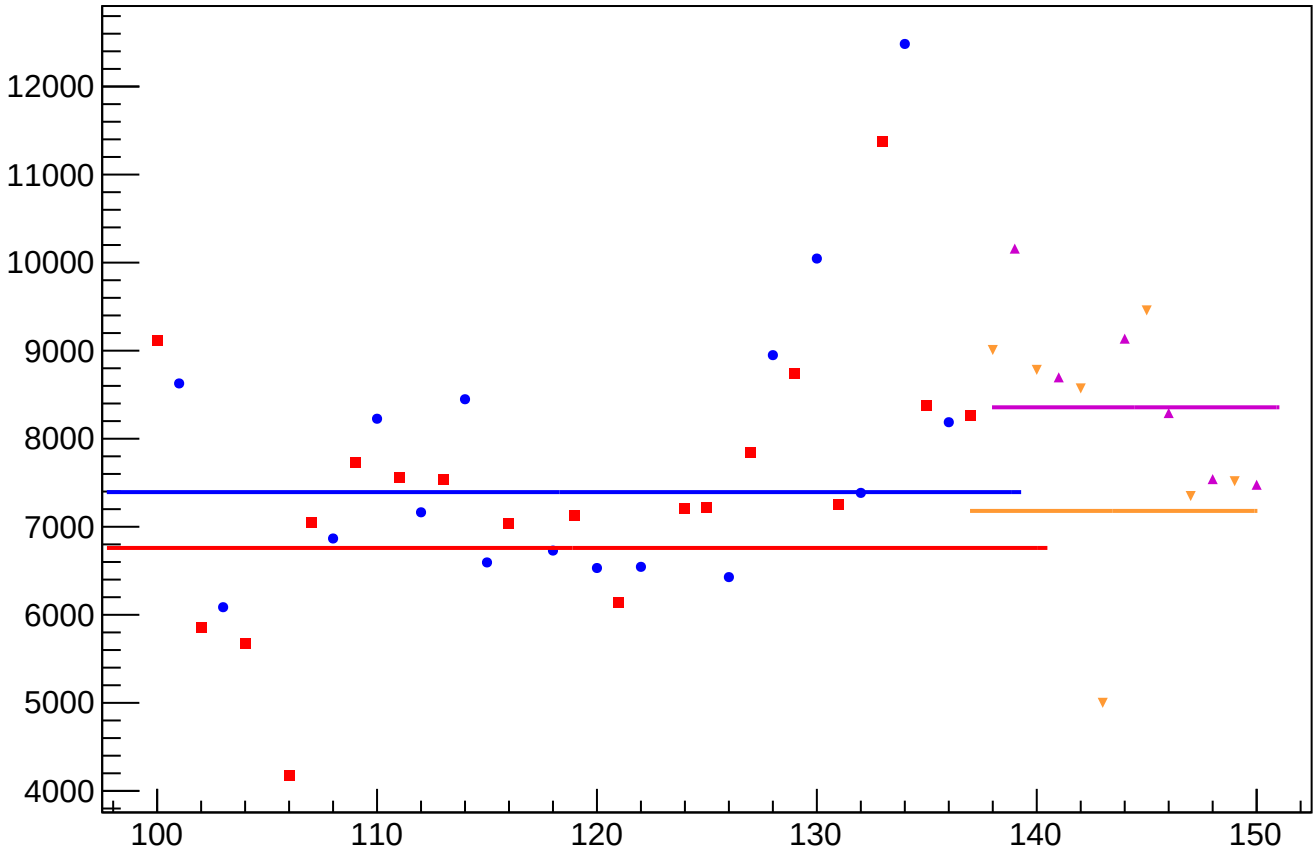
Left: 3025.420+/-2411.077 $\chi^2$/NDF: 9.1/12

Right: -843.216+/-1876.494 $\chi^2$/NDF: 30.8/34

In: -840.427+/-2225.495 $\chi^2$/NDF:16.3/21

Out: 1773.474+/-1983.774 $\chi^2$/NDF:24.4/25

All: 616.136+/-1480.854 $\chi^2$/NDF: 41.5/47




Right In: 7393.622+/-1.979 $\chi^2$/NDF: 401826.8/15

Left Out: 7180.073+/-2.261 $\chi^2$/NDF:548398.3/6

Right Out: 6759.428+/-1.789 $\chi^2$/NDF: 644290.9/18

Left In: 8356.743+/-2.596 $\chi^2$/NDF:113113.4/5

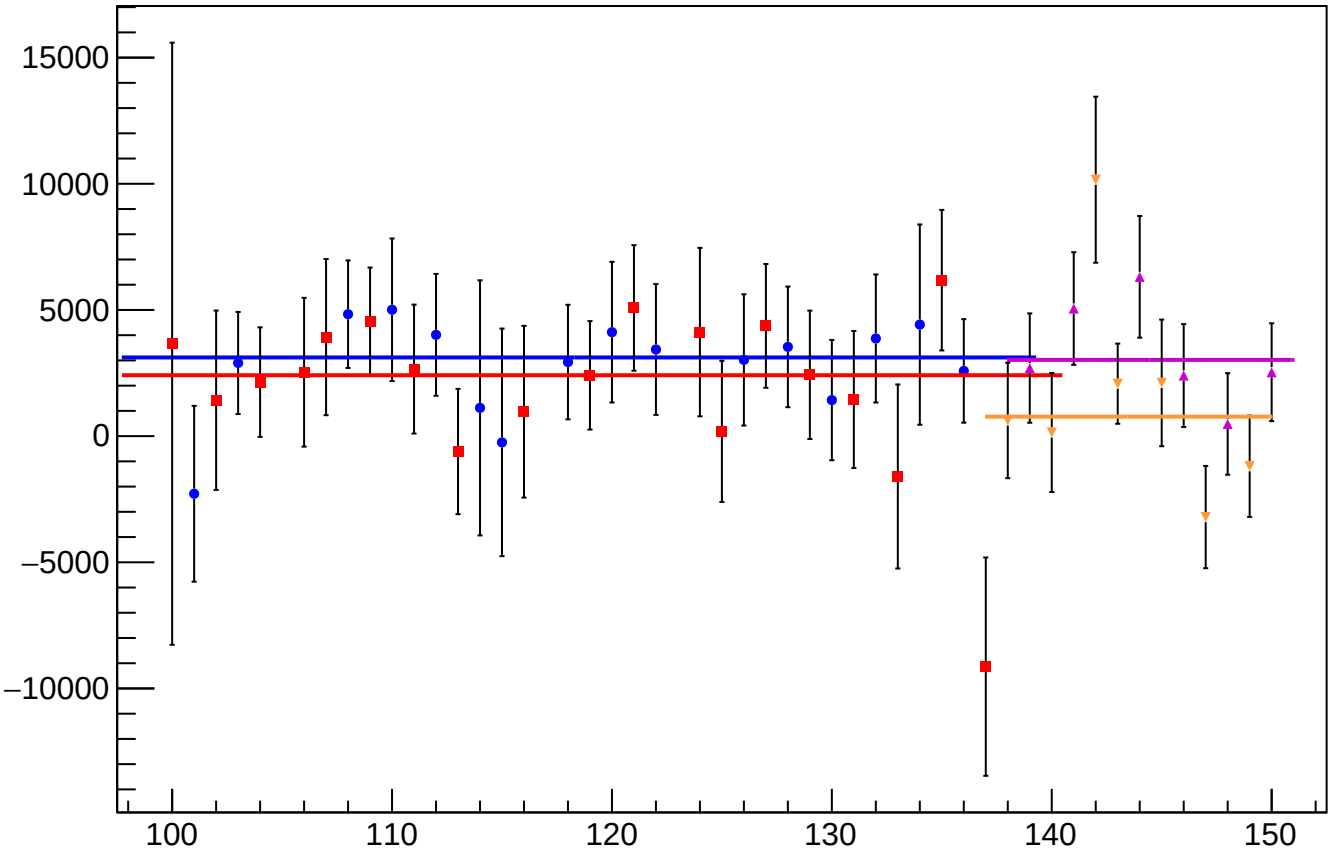
Left: 7687.623+/-1.705 $\chi^2$/NDF: 778351.4/12

Right: 7044.612+/-1.327 $\chi^2$/NDF: 1102650.4/34

In: 7747.567+/-1.574 $\chi^2$/NDF:602007.4/21

Out: 6921.358+/-1.403 $\chi^2$/NDF:1213980.2/25

All: 7287.173+/-1.047 $\chi^2$/NDF: 1969589.6/47




Right In: 3117.882+/-651.118 $\chi^2$/NDF: 5.3/15

Left Out: 772.435+/-813.866 $\chi^2$/NDF:14.0/6

Right Out: 2412.481+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 3021.656+/-864.229 $\chi^2$/NDF:4.5/5

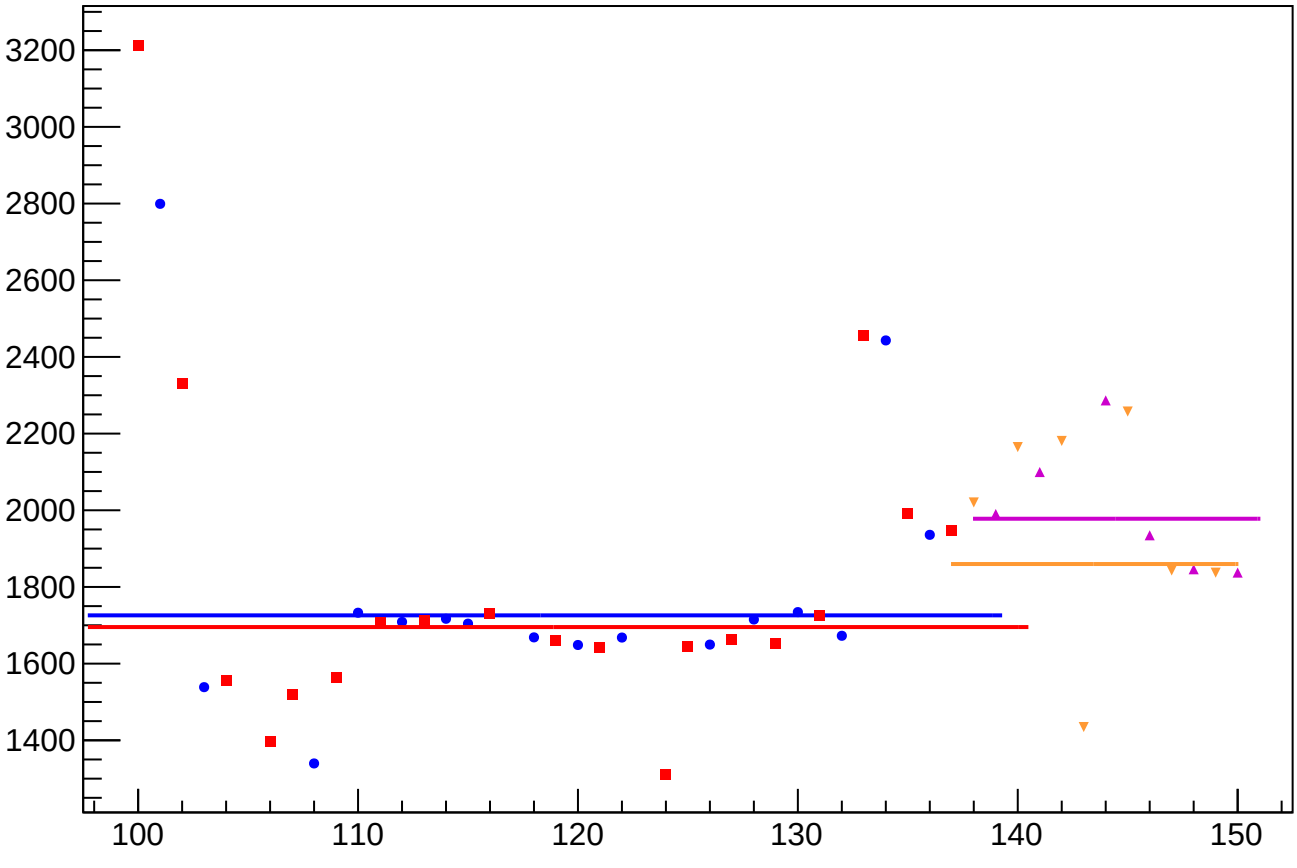
Left: 1829.602+/-592.495 $\chi^2$/NDF: 22.1/12

Right: 2758.566+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3083.039+/-520.042 $\chi^2$/NDF:9.8/21

Out: 1787.012+/-502.606 $\chi^2$/NDF:32.5/25

All: 2412.934+/-361.403 $\chi^2$/NDF: 45.5/47




Right In: 1725.910+/-0.460 $\chi^2$/NDF: 365639.0/15

Left Out: 1859.804+/-0.575 $\chi^2$/NDF:256380.3/6

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.3/18

Left In: 1977.930+/-0.611 $\chi^2$/NDF:58782.3/5

Left: 1915.325+/-0.419 $\chi^2$/NDF: 334965.3/12

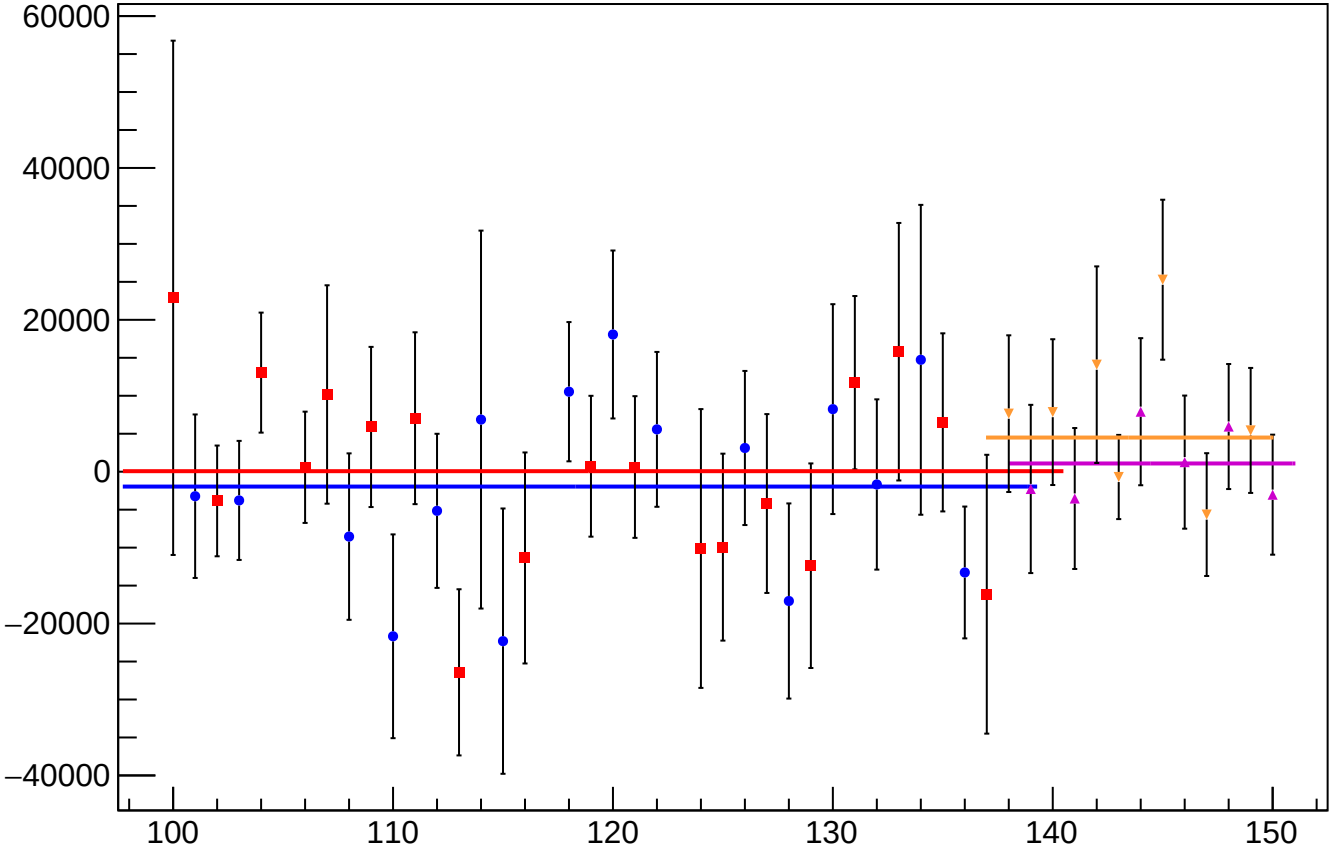
Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.9/34

In: 1817.165+/-0.368 $\chi^2$/NDF:532913.3/21

Out: 1758.062+/-0.355 $\chi^2$/NDF:592511.9/25

All: 1786.599+/-0.256 $\chi^2$/NDF: 1138784.7/47

asym_at2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1958.538+/-2798.302 $\chi^2$/NDF: 14.4/15

Left Out: 4498.051+/-3197.326 $\chi^2$/NDF:7.1/6

Right Out: 68.163+/-2529.521 $\chi^2$/NDF: 16.1/18

Left In: 1083.994+/-3671.131 $\chi^2$/NDF:1.5/5

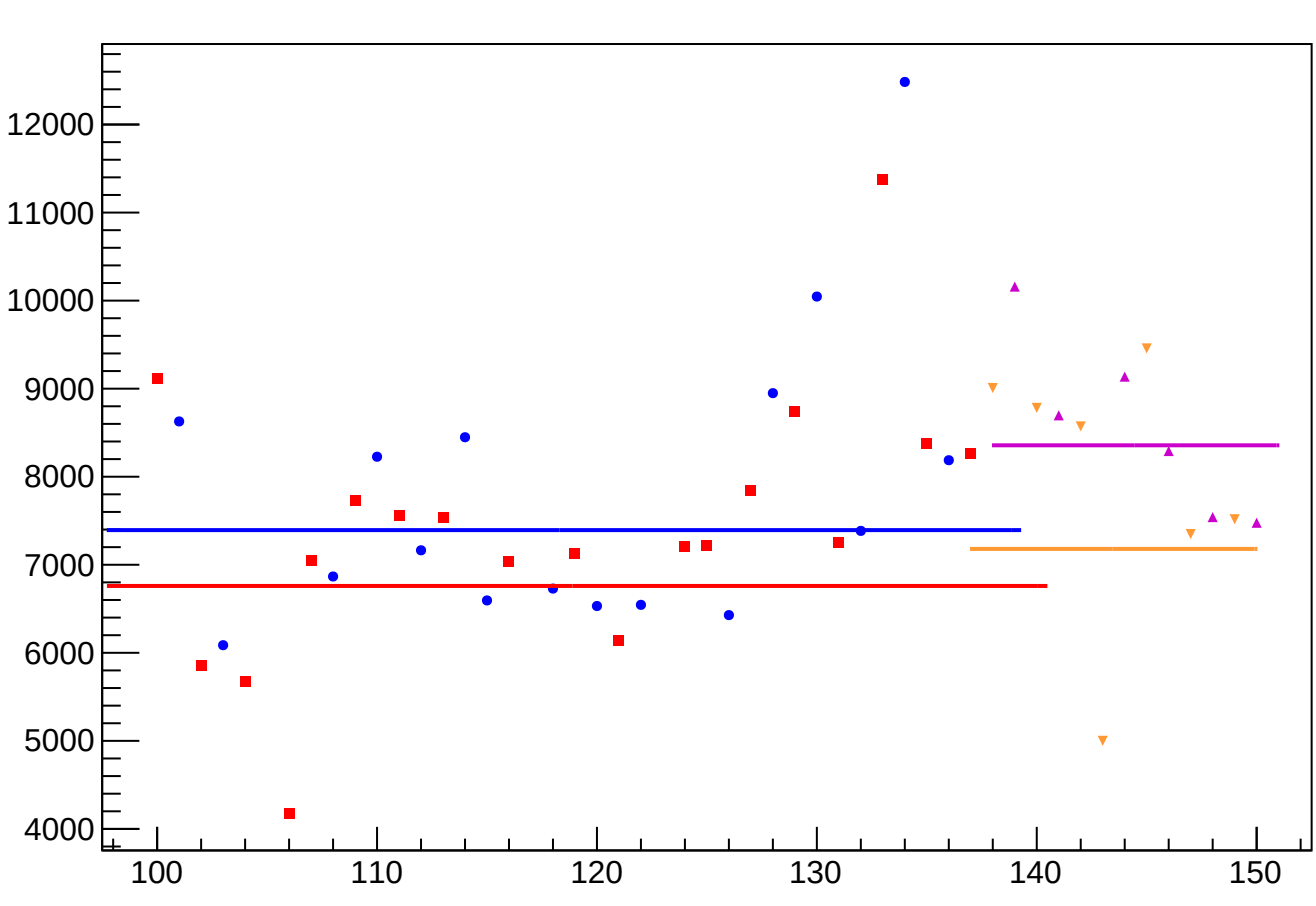
Left: 3025.418+/-2411.081 $\chi^2$/NDF: 9.1/12

Right: -843.203+/-1876.490 $\chi^2$/NDF: 30.8/34

In: -840.420+/-2225.493 $\chi^2$/NDF:16.3/21

Out: 1773.470+/-1983.772 $\chi^2$/NDF:24.4/25

All: 616.136+/-1480.853 $\chi^2$/NDF: 41.5/47




Right In: 7393.605+/-1.979 $\chi^2$/NDF: 401829.0/15

Left Out: 7180.084+/-2.261 $\chi^2$/NDF:548398.4/6

Right Out: 6759.413+/-1.789 $\chi^2$/NDF: 644289.7/18

Left In: 8356.754+/-2.596 $\chi^2$/NDF:113114.5/5

Left: 7687.634+/-1.705 $\chi^2$/NDF: 778352.2/12

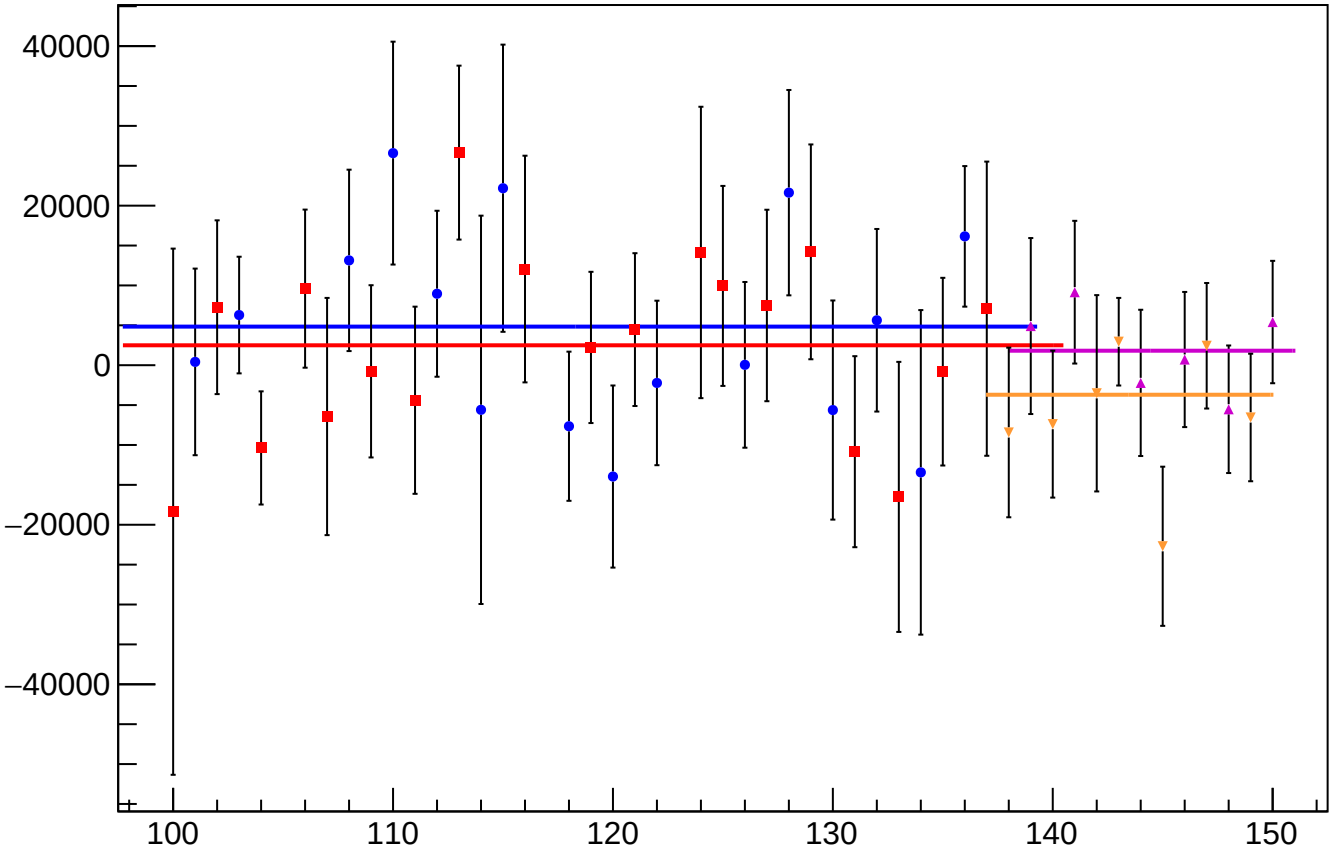
Right: 7044.596+/-1.327 $\chi^2$/NDF: 1102651.2/34

In: 7747.558+/-1.574 $\chi^2$/NDF:602015.9/21

Out: 6921.353+/-1.403 $\chi^2$/NDF:1213981.7/25

All: 7287.166+/-1.047 $\chi^2$/NDF: 1969598.5/47

# asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 4837.820+/-2828.918 $\chi^2$/NDF: 14.3/15

Left Out: -3702.649+/-3127.012 $\chi^2$/NDF:6.2/6

Right Out: 2495.844+/-2695.530 $\chi^2$/NDF: 14.9/18

Left In: 1816.235+/-3553.520 $\chi^2$/NDF:2.0/5

Left: -1294.121+/-2347.518 $\chi^2$/NDF: 9.6/12

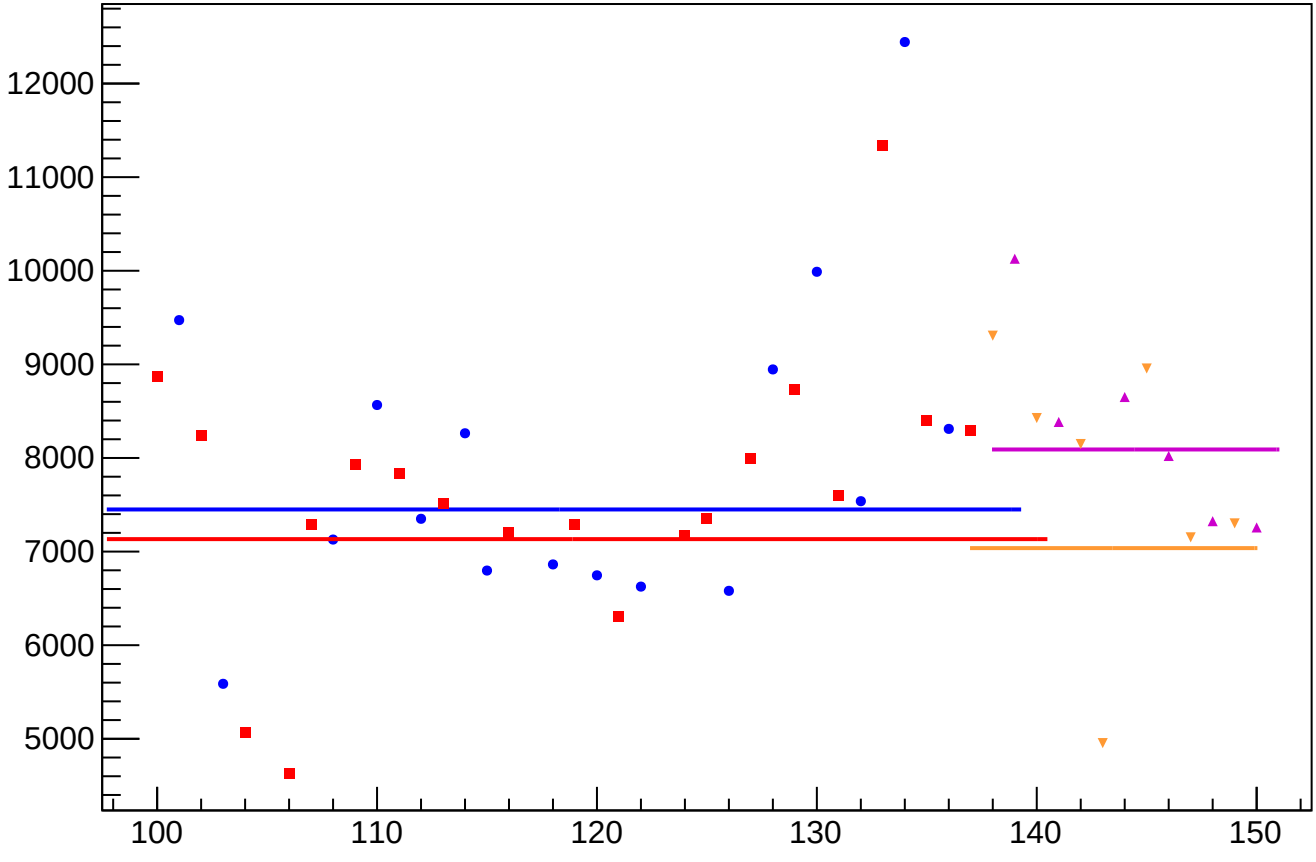
Right: 3610.318+/-1951.480 $\chi^2$/NDF: 29.6/34

In: 3665.705+/-2213.230 $\chi^2$/NDF:16.8/21

Out: -146.570+/-2041.676 $\chi^2$/NDF:23.4/25

All: 1606.110+/-1500.672 $\chi^2$/NDF: 41.8/47

# asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 7449.985+/-2.000 $\chi^2$/NDF: 486427.7/15

Left Out: 7037.078+/-2.211 $\chi^2$/NDF:517515.0/6

Right Out: 7133.115+/-1.906 $\chi^2$/NDF: 556993.0/18

Left In: 8090.727+/-2.513 $\chi^2$/NDF:119980.7/5

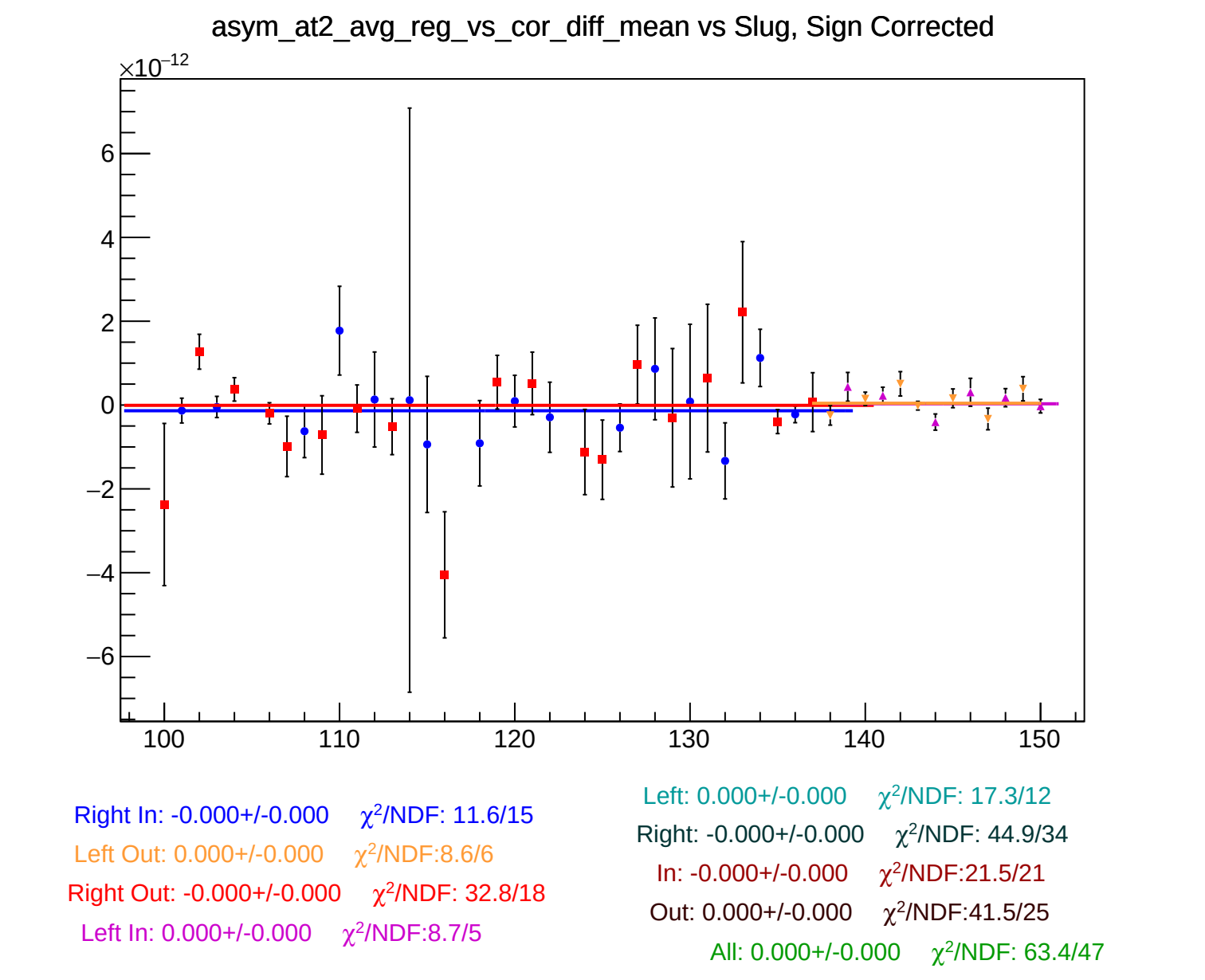
Left: 7496.907+/-1.660 $\chi^2$/NDF: 736593.2/12

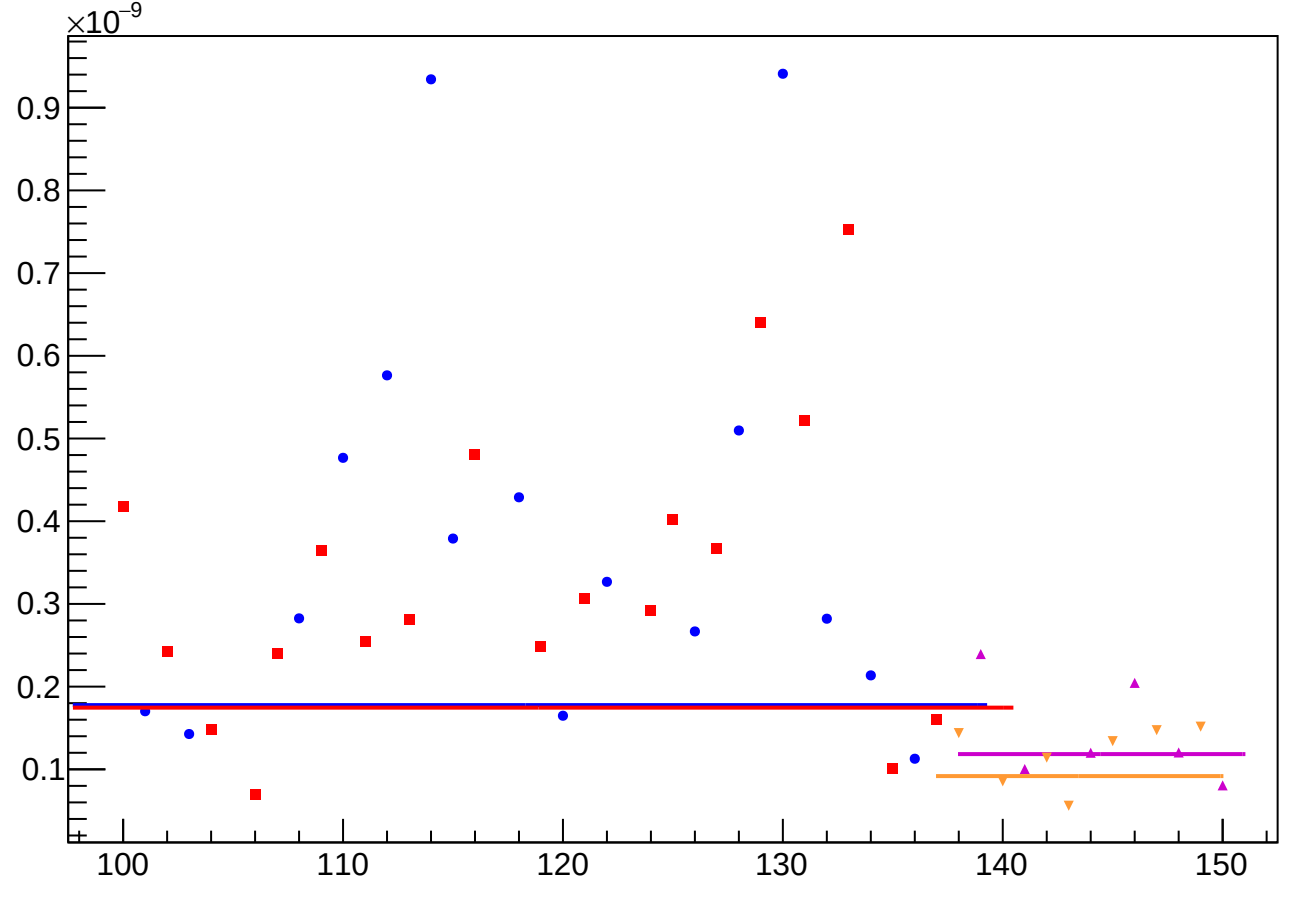
Right: 7283.894+/-1.380 $\chi^2$/NDF: 1056573.7/34

In: 7698.535+/-1.565 $\chi^2$/NDF:646209.4/21

Out: 7092.178+/-1.444 $\chi^2$/NDF:1075590.2/25

All: 7370.938+/-1.061 $\chi^2$/NDF: 1802905.2/47


asym_at2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 11.6/15
Left Out: 0.000+/-0.000 χ²/NDF:8.6/6
Right Out: -0.000+/-0.000 χ²/NDF: 32.8/18
Left In: 0.000+/-0.000 χ²/NDF:8.7/5
Left: 0.000+/-0.000 χ²/NDF: 17.3/12
Right: -0.000+/-0.000 χ²/NDF: 44.9/34
In: -0.000+/-0.000 χ²/NDF:21.5/21
Out: 0.000+/-0.000 χ²/NDF:41.5/25
All: 0.000+/-0.000 χ²/NDF: 63.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1530066.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:603658.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1641366.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:507718.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1224383.1/12

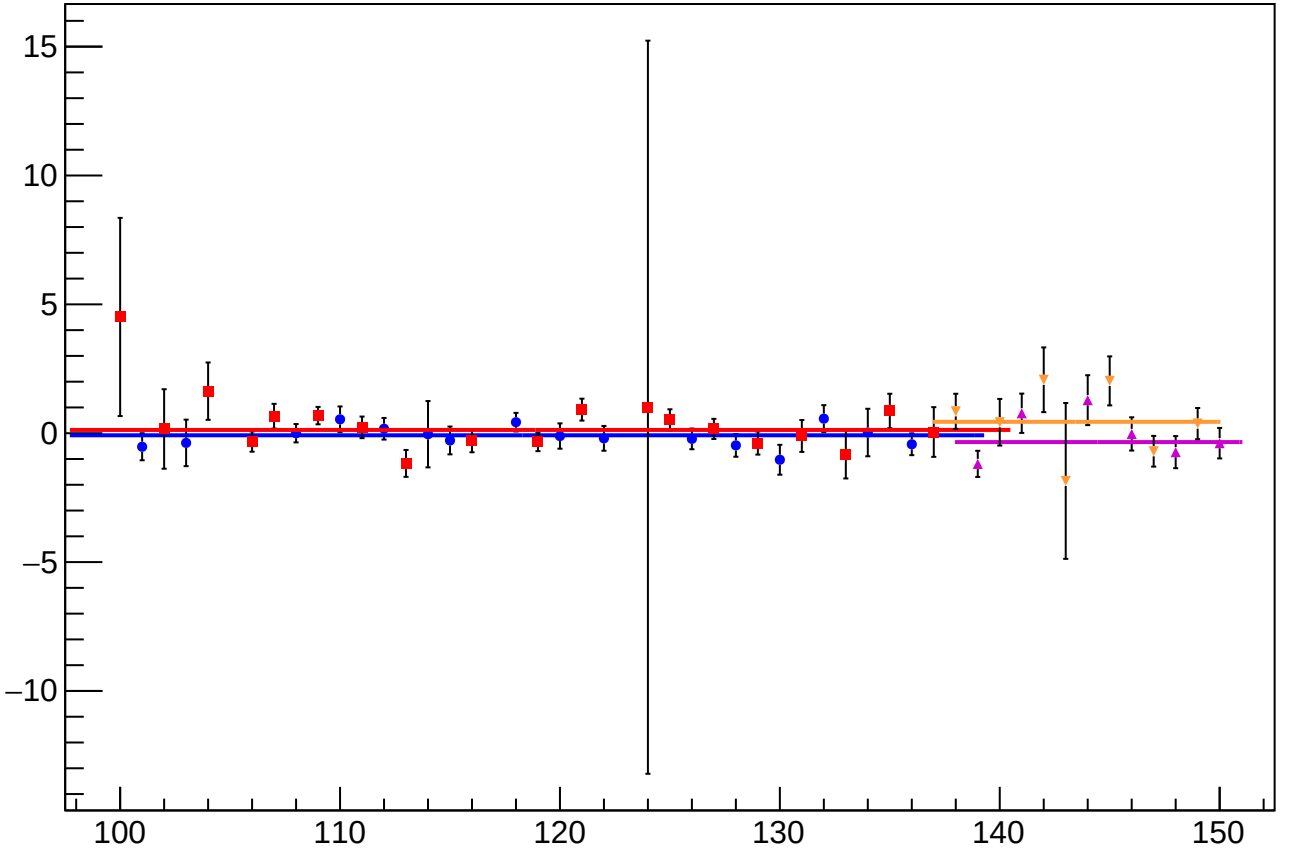
Right: 0.000+/-0.000 $\chi^2$/NDF: 3172068.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:2354814.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2933857.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5464549.7/47

asym_at2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 0.442+/-0.305 $\chi^2$/NDF:9.1/6

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.344+/-0.262 $\chi^2$/NDF:8.4/5

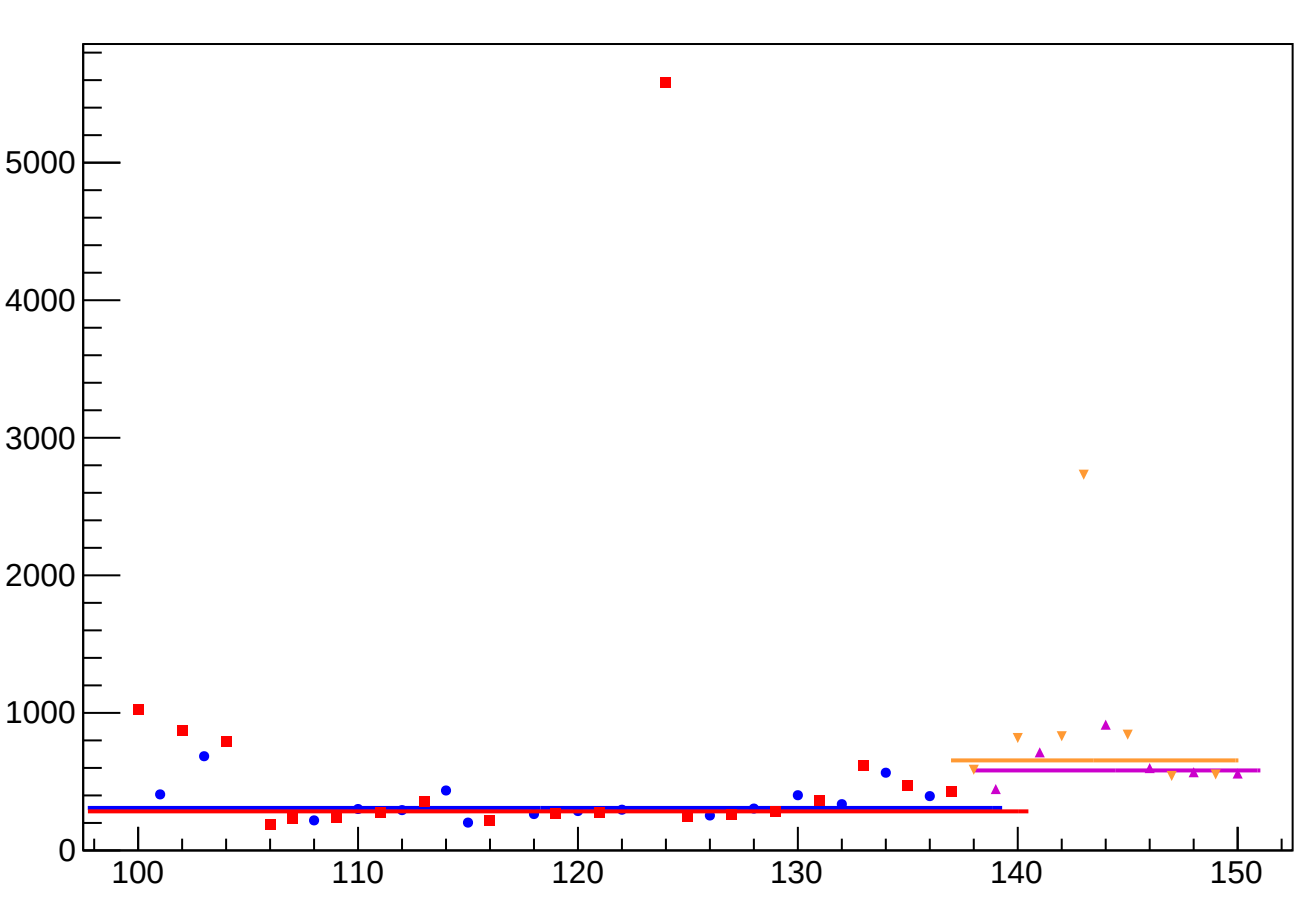
Left: -0.009+/-0.199 $\chi^2$/NDF: 21.3/12

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.127+/-0.111 $\chi^2$/NDF:20.0/21

Out: 0.168+/-0.109 $\chi^2$/NDF:35.3/25

All: 0.022+/-0.078 $\chi^2$/NDF: 58.9/47




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 654.639+/-0.215 $\chi^2$/NDF:1274131.6/6

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 581.680+/-0.186 $\chi^2$/NDF:443266.1/5

Left: 612.759+/-0.141 $\chi^2$/NDF: 1783228.9/12

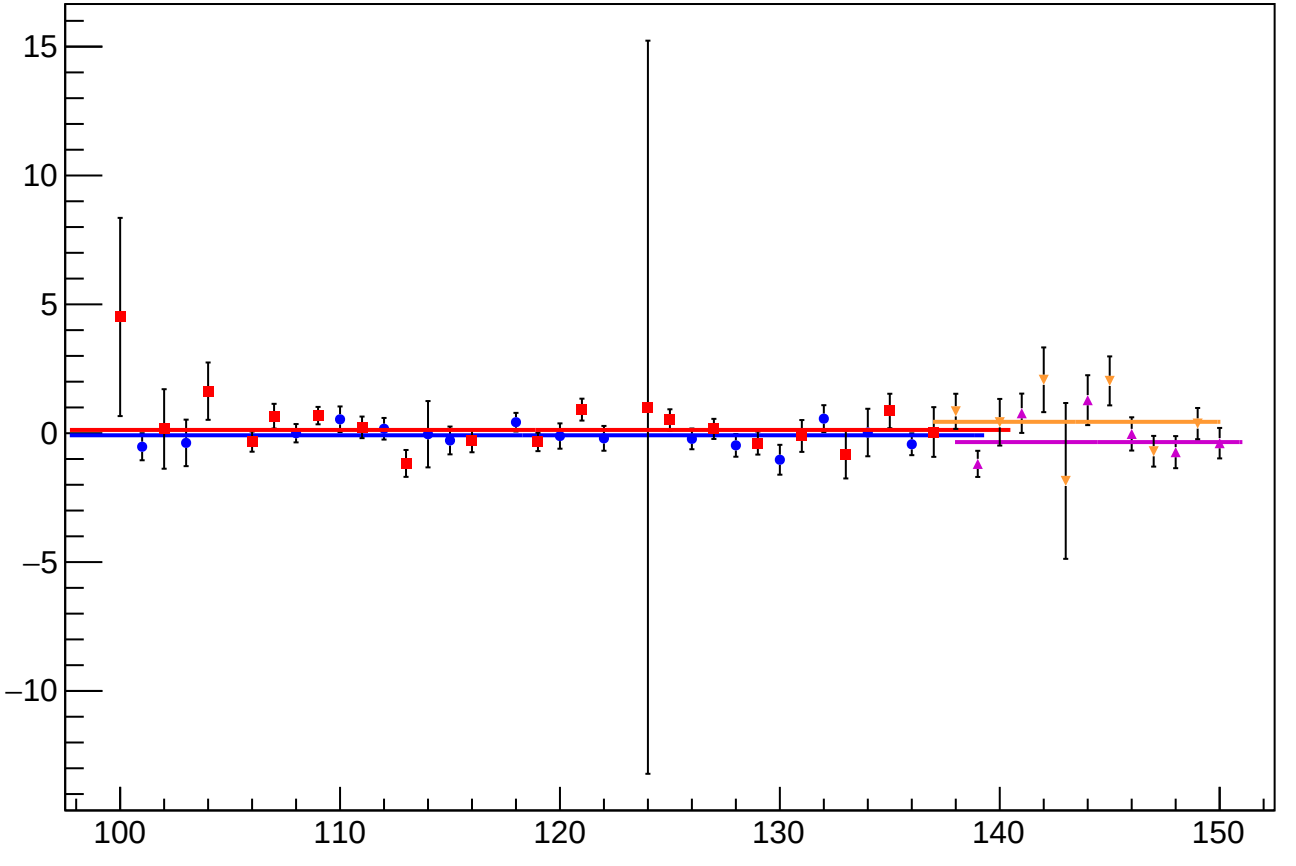
Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 357.437+/-0.078 $\chi^2$/NDF:3232519.5/21

Out: 331.732+/-0.077 $\chi^2$/NDF:5707769.2/25

All: 344.423+/-0.055 $\chi^2$/NDF: 8995050.8/47

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 0.442+/-0.305 $\chi^2$/NDF:9.1/6

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.344+/-0.262 $\chi^2$/NDF:8.4/5

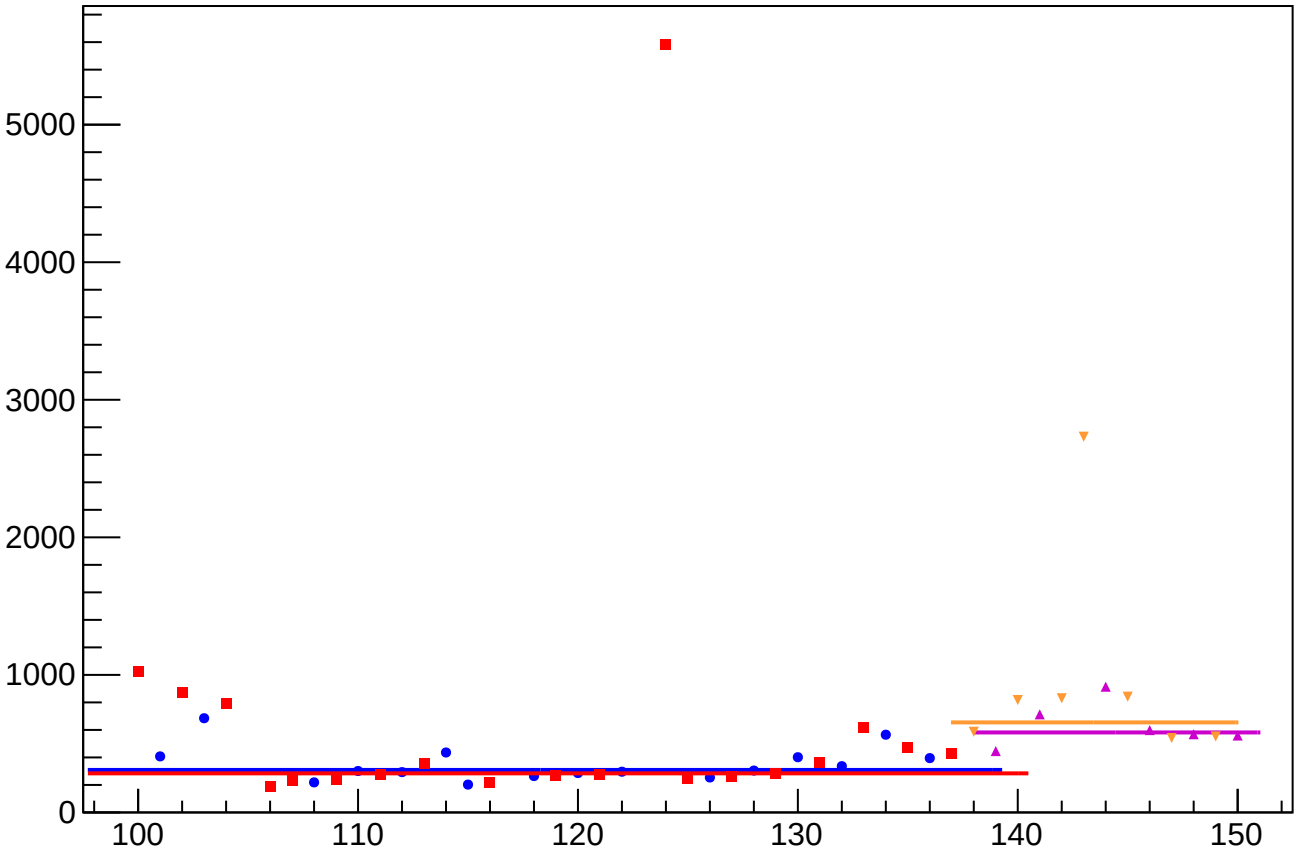
Left: -0.009+/-0.199 $\chi^2$/NDF: 21.3/12

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.127+/-0.111 $\chi^2$/NDF:20.0/21

Out: 0.168+/-0.109 $\chi^2$/NDF:35.3/25

All: 0.022+/-0.078 $\chi^2$/NDF: 58.9/47




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 654.639+/-0.215 $\chi^2$/NDF:1274131.6/6

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 581.680+/-0.186 $\chi^2$/NDF:443266.1/5

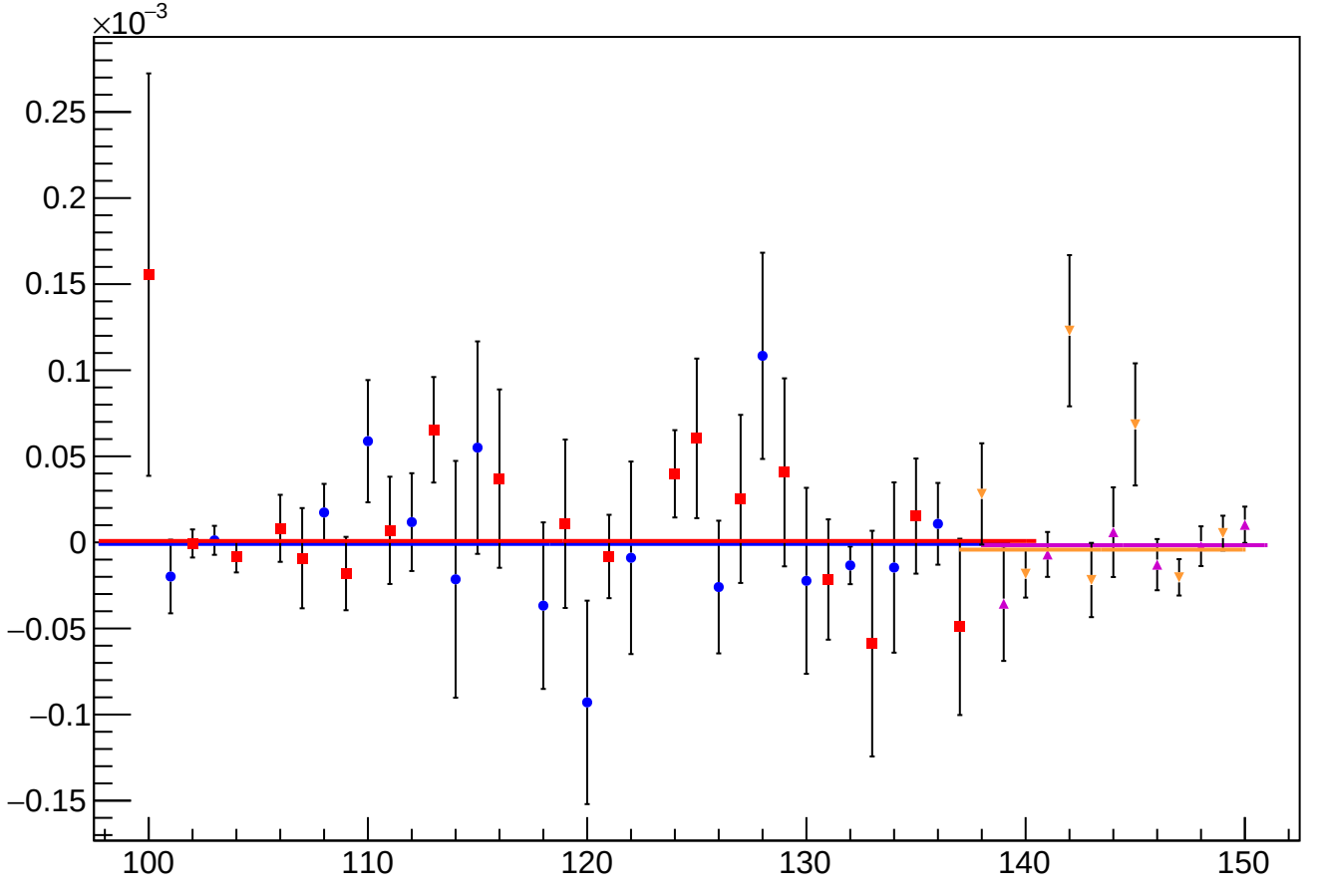
Left: 612.759+/-0.141 $\chi^2$/NDF: 1783228.9/12

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 357.437+/-0.078 $\chi^2$/NDF:3232519.5/21

Out: 331.732+/-0.077 $\chi^2$/NDF:5707769.2/25

All: 344.423+/-0.055 $\chi^2$/NDF: 8995050.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.1/5

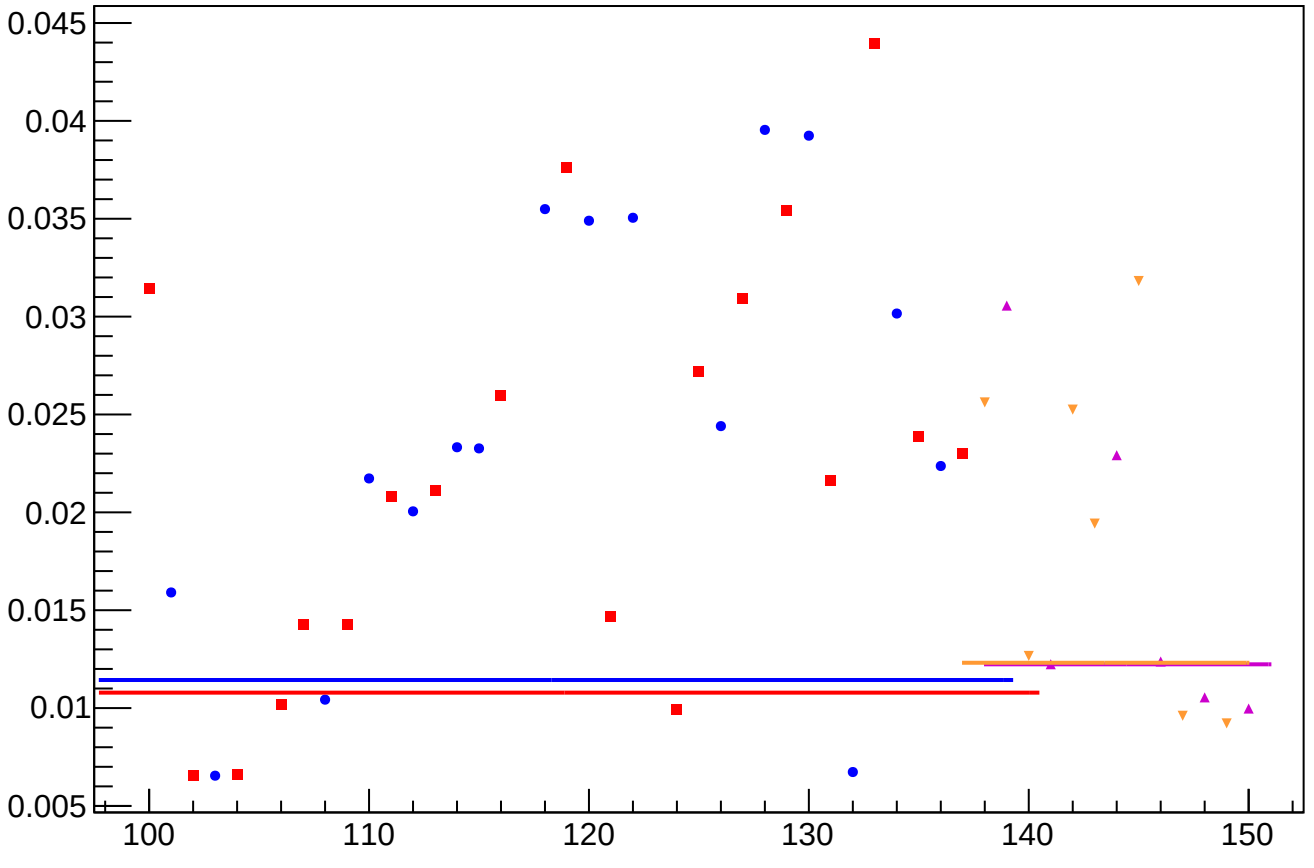
Left: -0.000+/-0.000 $\chi^2$/NDF: 22.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 52.9/47




Right In: 0.011+/-0.000 $\chi^2$/NDF: 4699938.2/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:1725750.0/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 4473688.9/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:1078514.8/5

Left: 0.012+/-0.000 $\chi^2$/NDF: 2804449.4/12

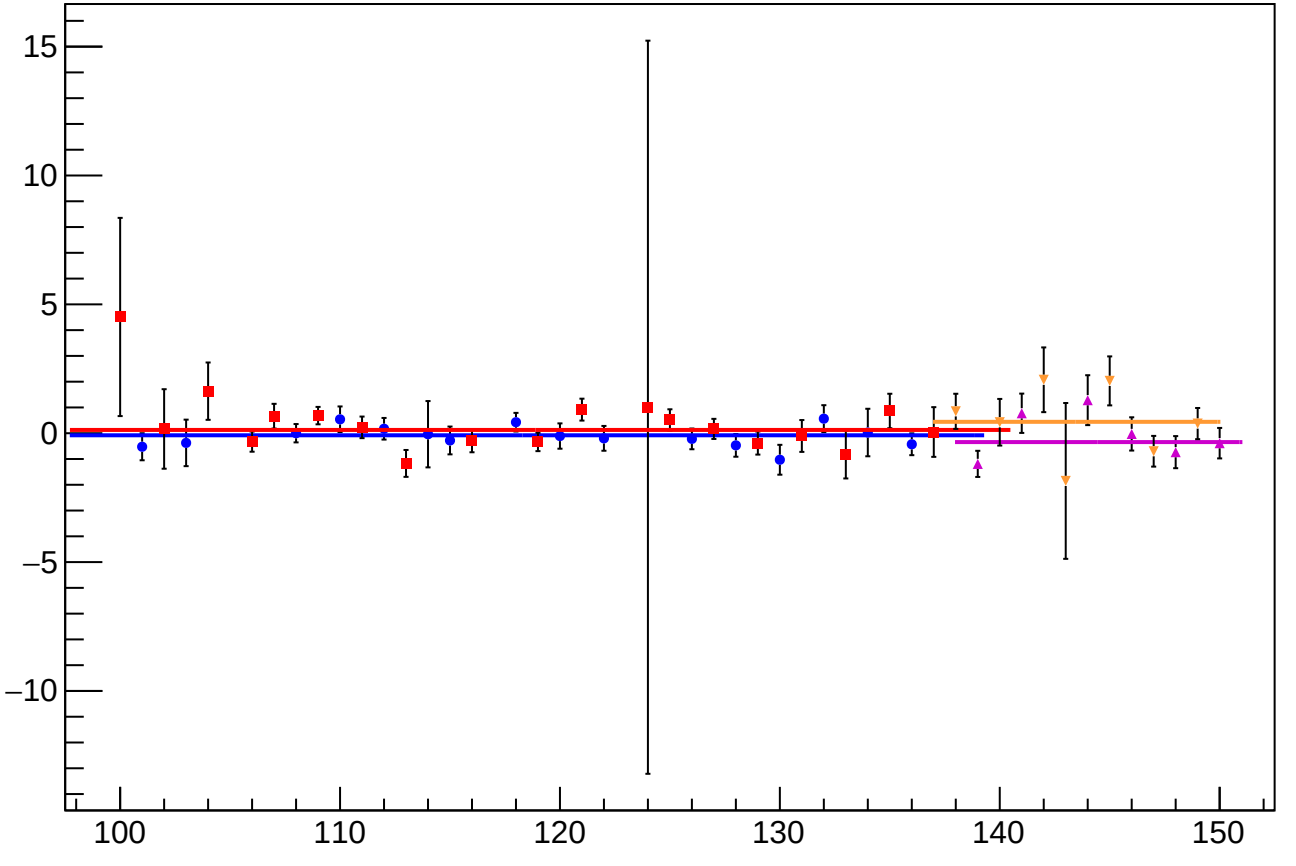
Right: 0.011+/-0.000 $\chi^2$/NDF: 9189725.1/34

In: 0.012+/-0.000 $\chi^2$/NDF:5799013.3/21

Out: 0.011+/-0.000 $\chi^2$/NDF:6279271.9/25

All: 0.012+/-0.000 $\chi^2$/NDF: 12088889.3/47

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 0.442+/-0.305 $\chi^2$/NDF:9.1/6

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.344+/-0.262 $\chi^2$/NDF:8.4/5

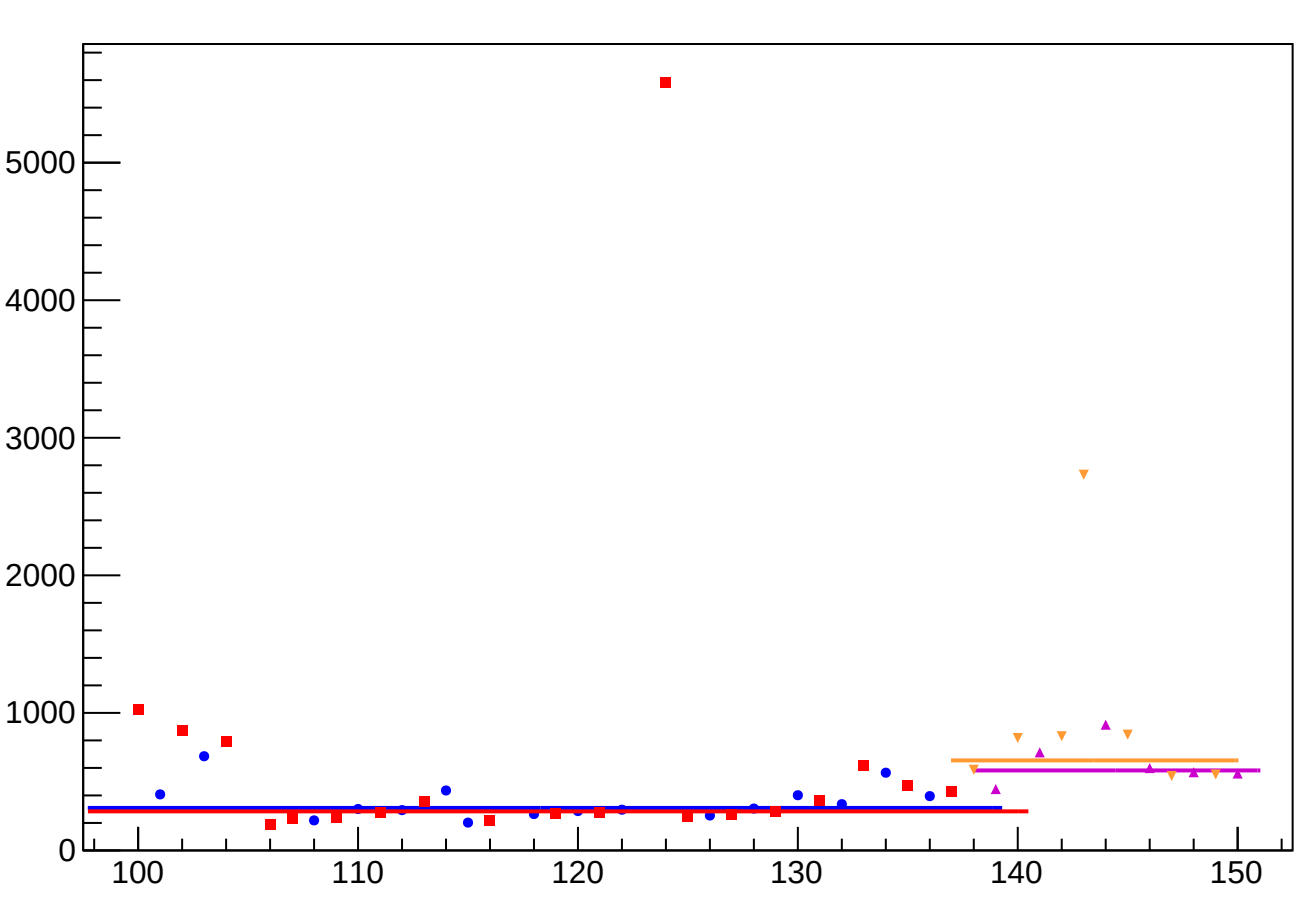
Left: -0.009+/-0.199 $\chi^2$/NDF: 21.3/12

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.127+/-0.111 $\chi^2$/NDF:20.0/21

Out: 0.168+/-0.109 $\chi^2$/NDF:35.3/25

All: 0.022+/-0.078 $\chi^2$/NDF: 58.9/47




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014573.4/15

Left Out: 654.646+/-0.215 $\chi^2$/NDF:1274130.7/6

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 581.689+/-0.186 $\chi^2$/NDF:443250.5/5

Left: 612.767+/-0.141 $\chi^2$/NDF: 1783207.9/12

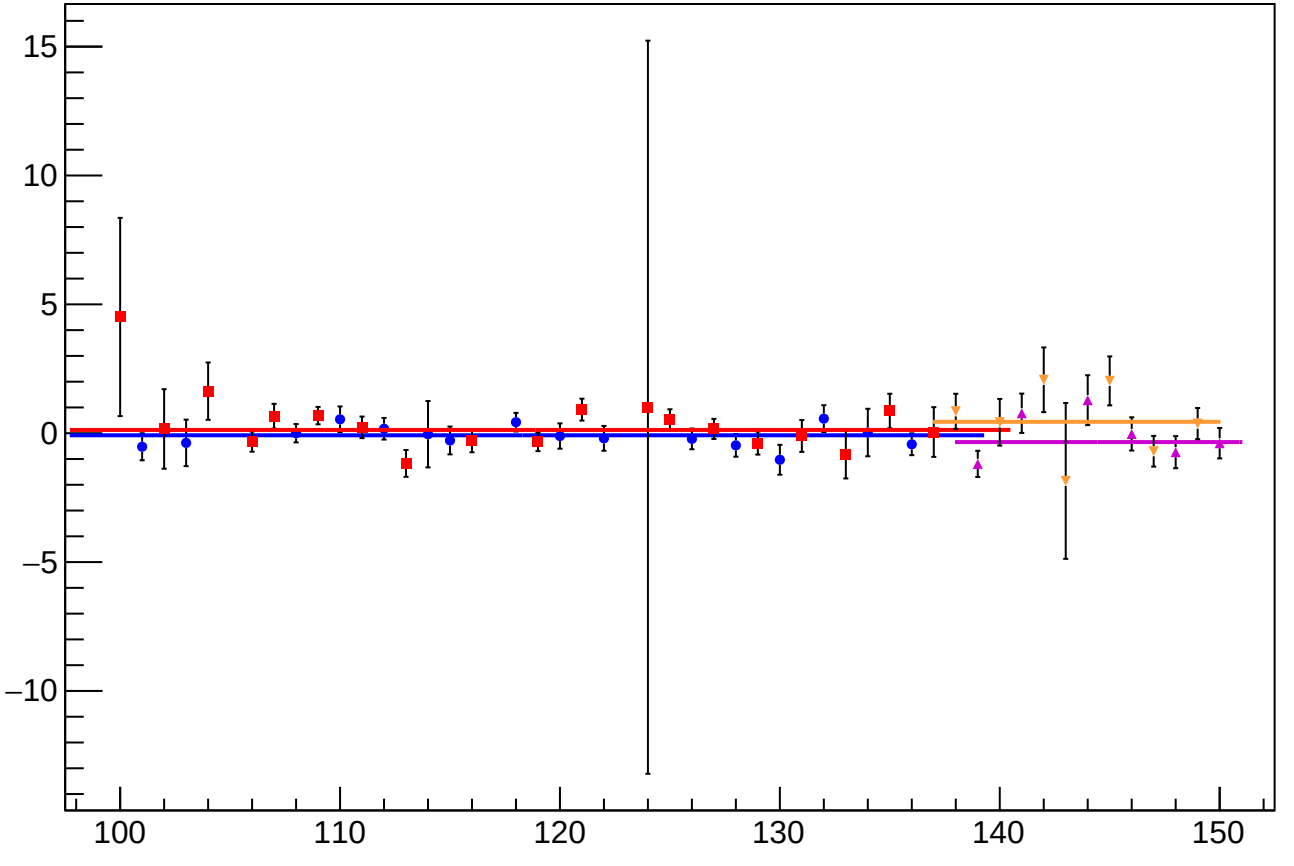
Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 357.437+/-0.078 $\chi^2$/NDF:3232553.9/21

Out: 331.732+/-0.077 $\chi^2$/NDF:5707811.6/25

All: 344.423+/-0.055 $\chi^2$/NDF: 8995128.8/47

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 0.442+/-0.305 $\chi^2$/NDF:9.1/6

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.344+/-0.262 $\chi^2$/NDF:8.4/5

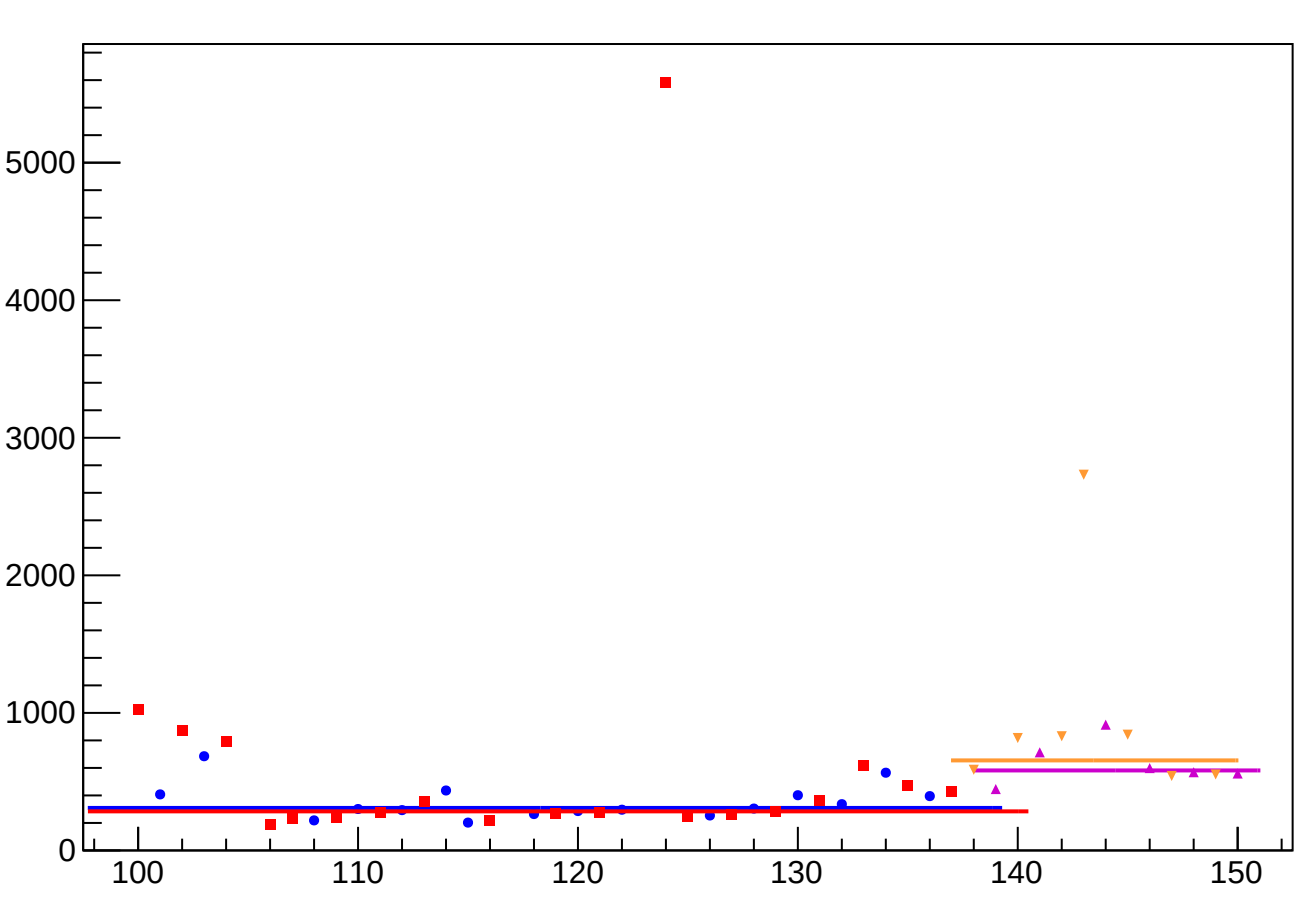
Left: -0.009+/-0.199 $\chi^2$/NDF: 21.3/12

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.127+/-0.111 $\chi^2$/NDF:20.0/21

Out: 0.168+/-0.109 $\chi^2$/NDF:35.3/25

All: 0.022+/-0.078 $\chi^2$/NDF: 58.9/47




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014573.4/15

Left Out: 654.646+/-0.215 $\chi^2$/NDF:1274130.7/6

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 581.689+/-0.186 $\chi^2$/NDF:443250.5/5

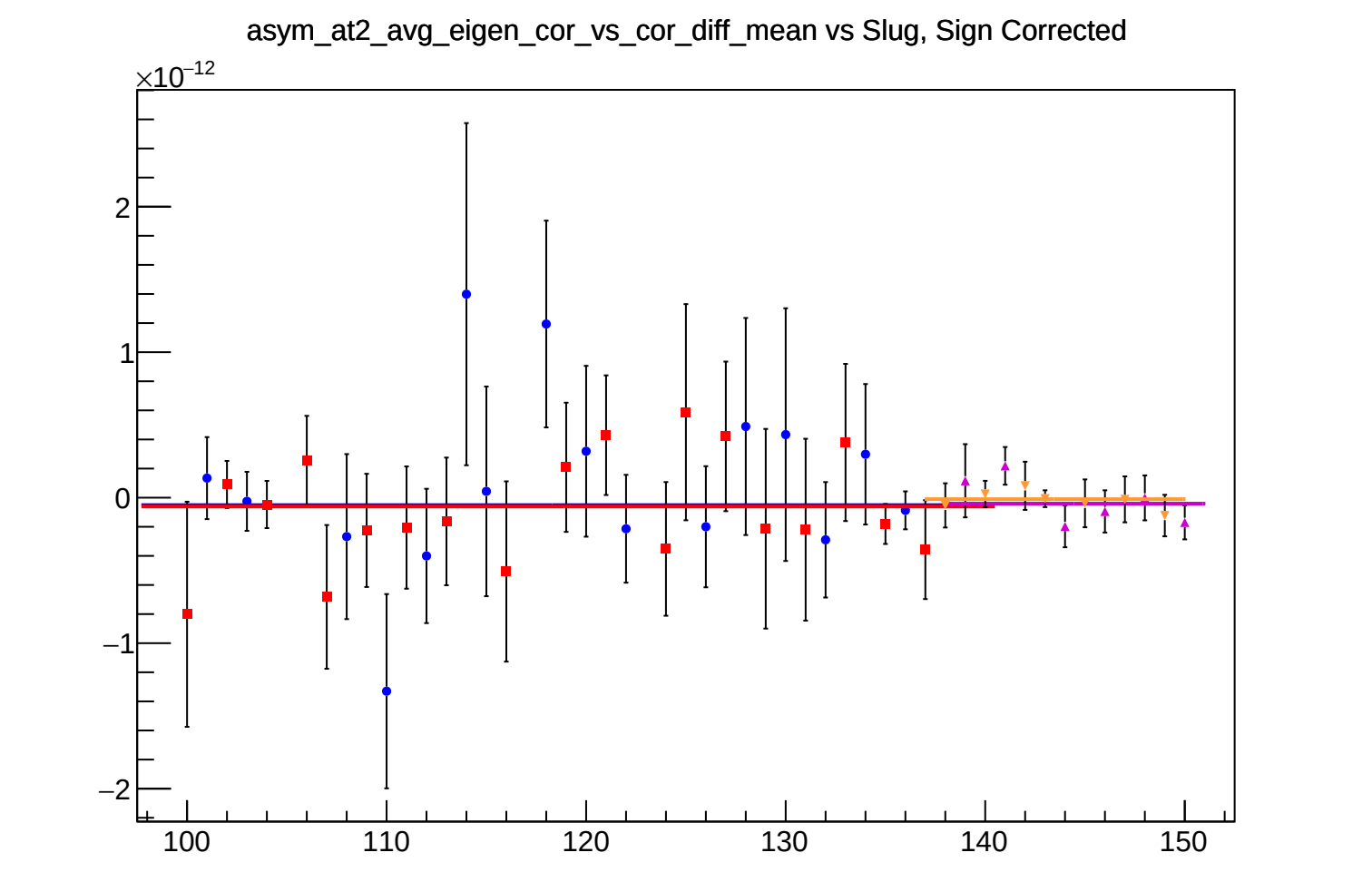
Left: 612.767+/-0.141 $\chi^2$/NDF: 1783207.9/12

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 357.437+/-0.078 $\chi^2$/NDF:3232553.9/21

Out: 331.732+/-0.077 $\chi^2$/NDF:5707811.6/25

All: 344.423+/-0.055 $\chi^2$/NDF: 8995128.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.0/5

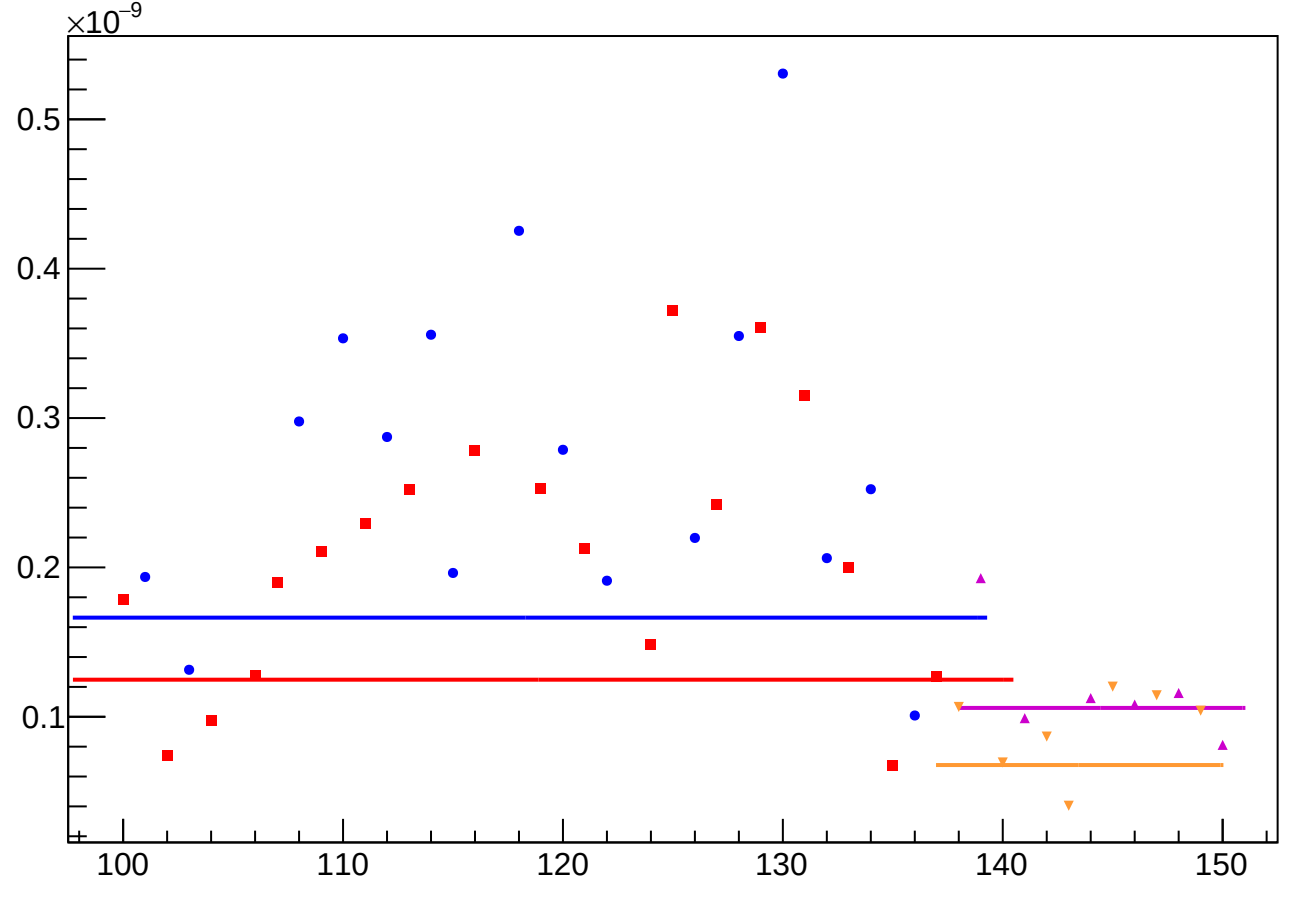
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:13.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 32.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1984237.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1113805.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2209554.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:346886.8/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 2036556.7/12

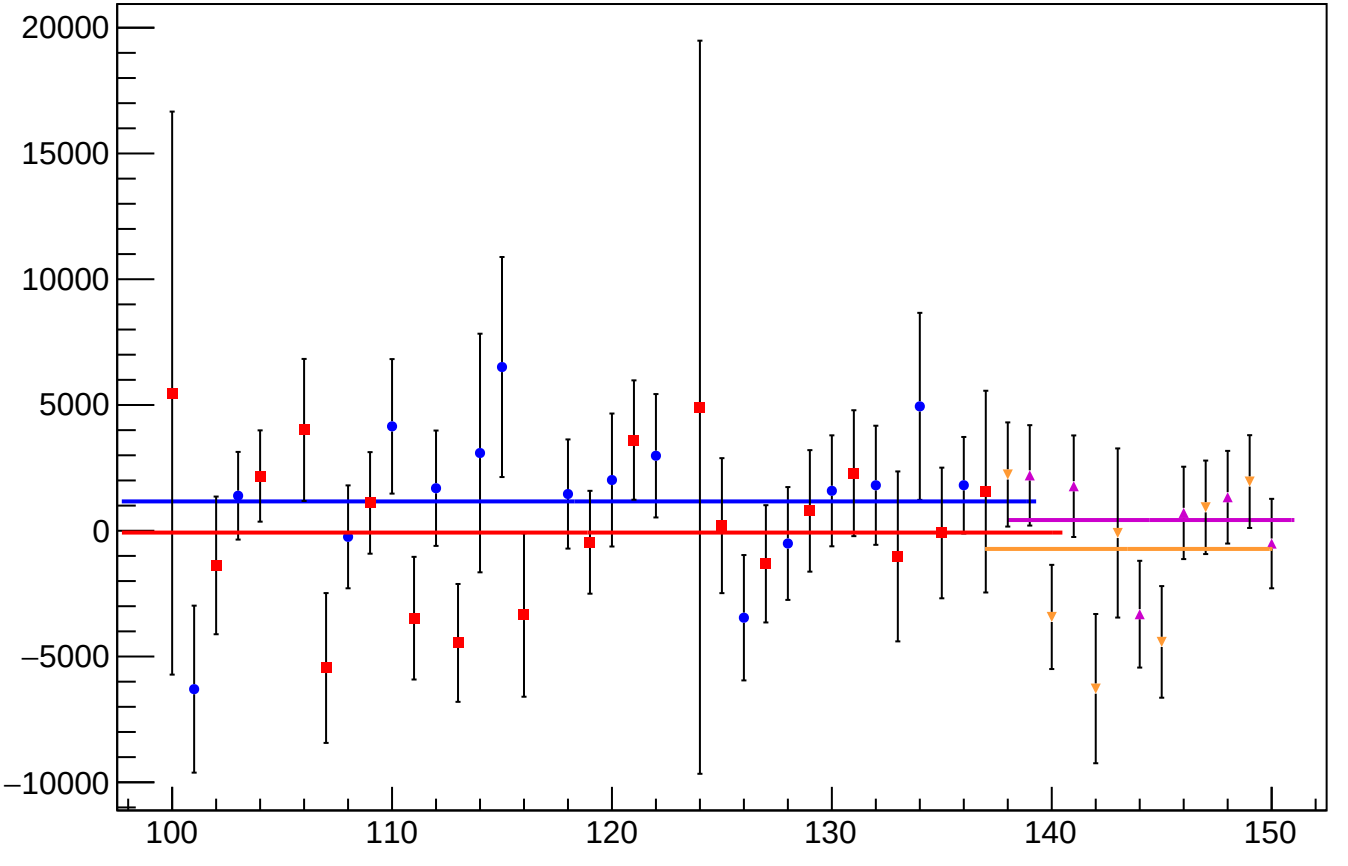
Right: 0.000+/-0.000 $\chi^2$/NDF: 4480530.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:3019292.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4328179.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8442926.8/47

# reg_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1166.862+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: -722.455+/-829.094 $\chi^2$/NDF:13.0/6

Right Out: -72.181+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 426.393+/-784.288 $\chi^2$/NDF:4.9/5

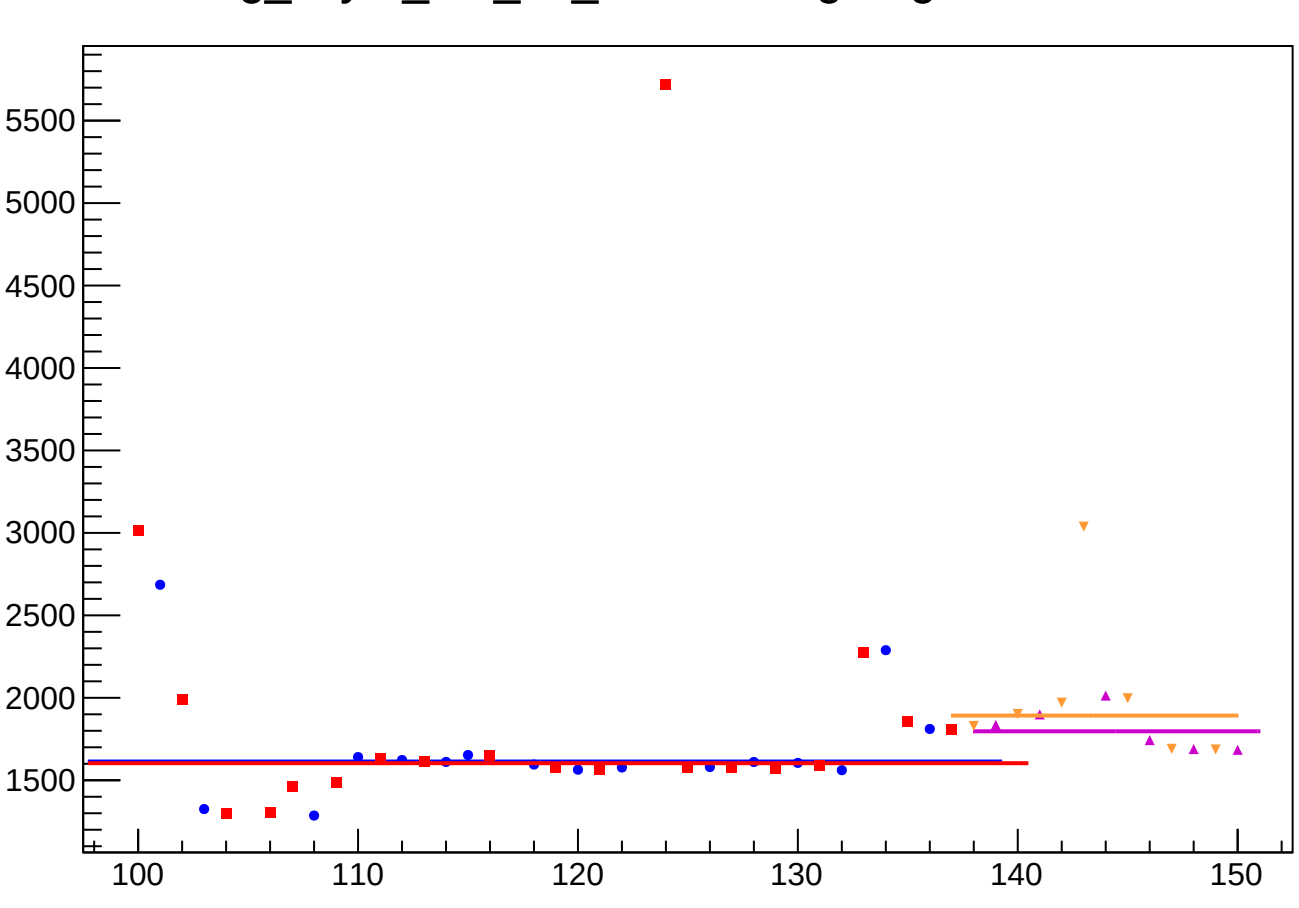
Left: -116.150+/-569.757 $\chi^2$/NDF: 18.9/12

Right: 541.404+/-428.680 $\chi^2$/NDF: 34.8/34

In: 888.236+/-481.098 $\chi^2$/NDF:19.9/21

Out: -297.328+/-487.853 $\chi^2$/NDF:31.7/25

All: 303.719+/-342.551 $\chi^2$/NDF: 54.5/47




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.5/15

Left Out: 1892.491+/-0.586 $\chi^2$/NDF:288335.3/6

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.5/18

Left In: 1796.969+/-0.555 $\chi^2$/NDF:43241.4/5

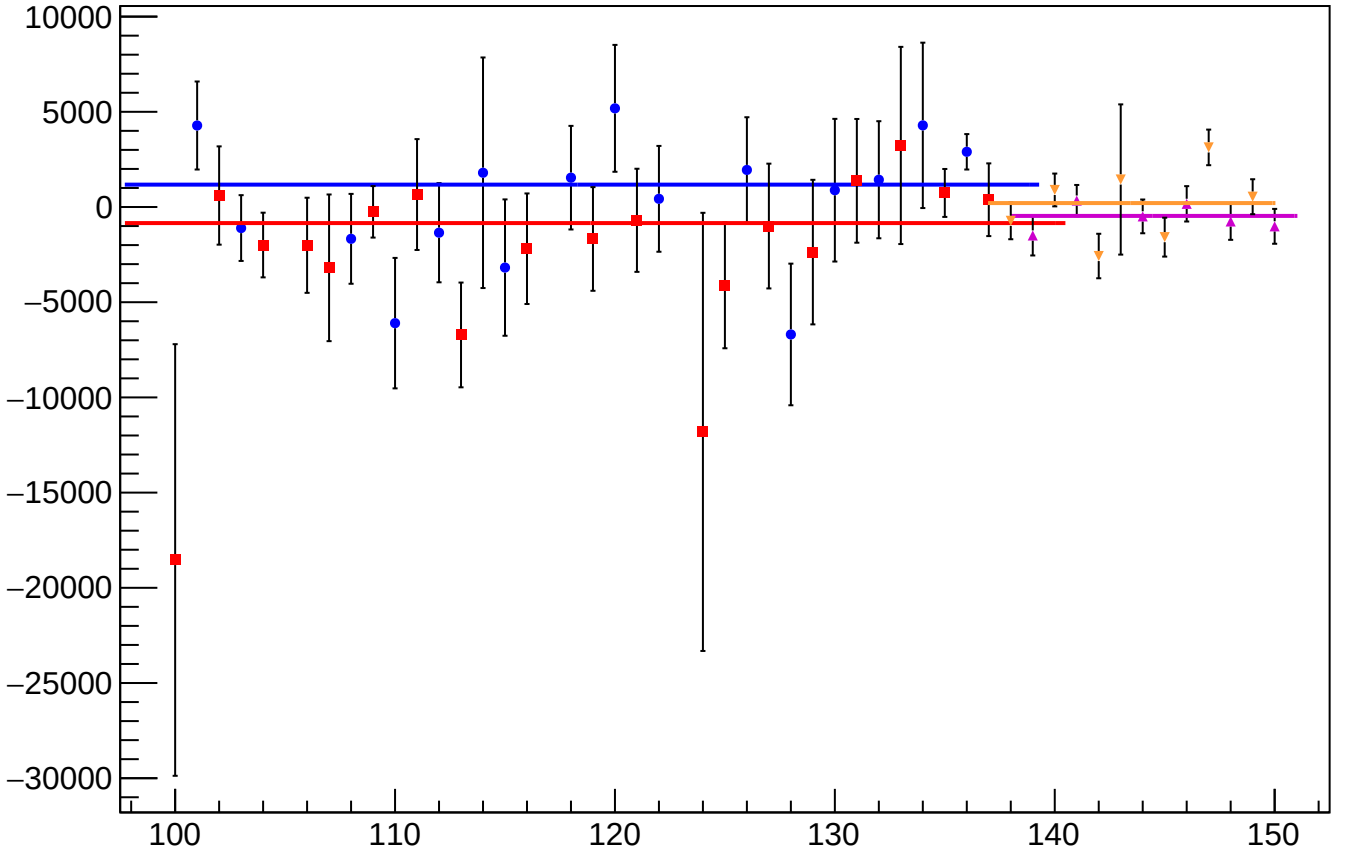
Left: 1842.079+/-0.403 $\chi^2$/NDF: 345587.2/12

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.6/34

In: 1682.645+/-0.340 $\chi^2$/NDF:516064.6/21

Out: 1703.535+/-0.345 $\chi^2$/NDF:873027.6/25

All: 1692.944+/-0.242 $\chi^2$/NDF: 1390951.3/47




Right In: 1175.479+/-579.062 $\chi^2$/NDF: 22.0/15

Left Out: 206.941+/-392.131 $\chi^2$/NDF:20.3/6

Right Out: -843.857+/-557.438 $\chi^2$/NDF: 14.3/18

Left In: -467.285+/-375.517 $\chi^2$/NDF:2.8/5

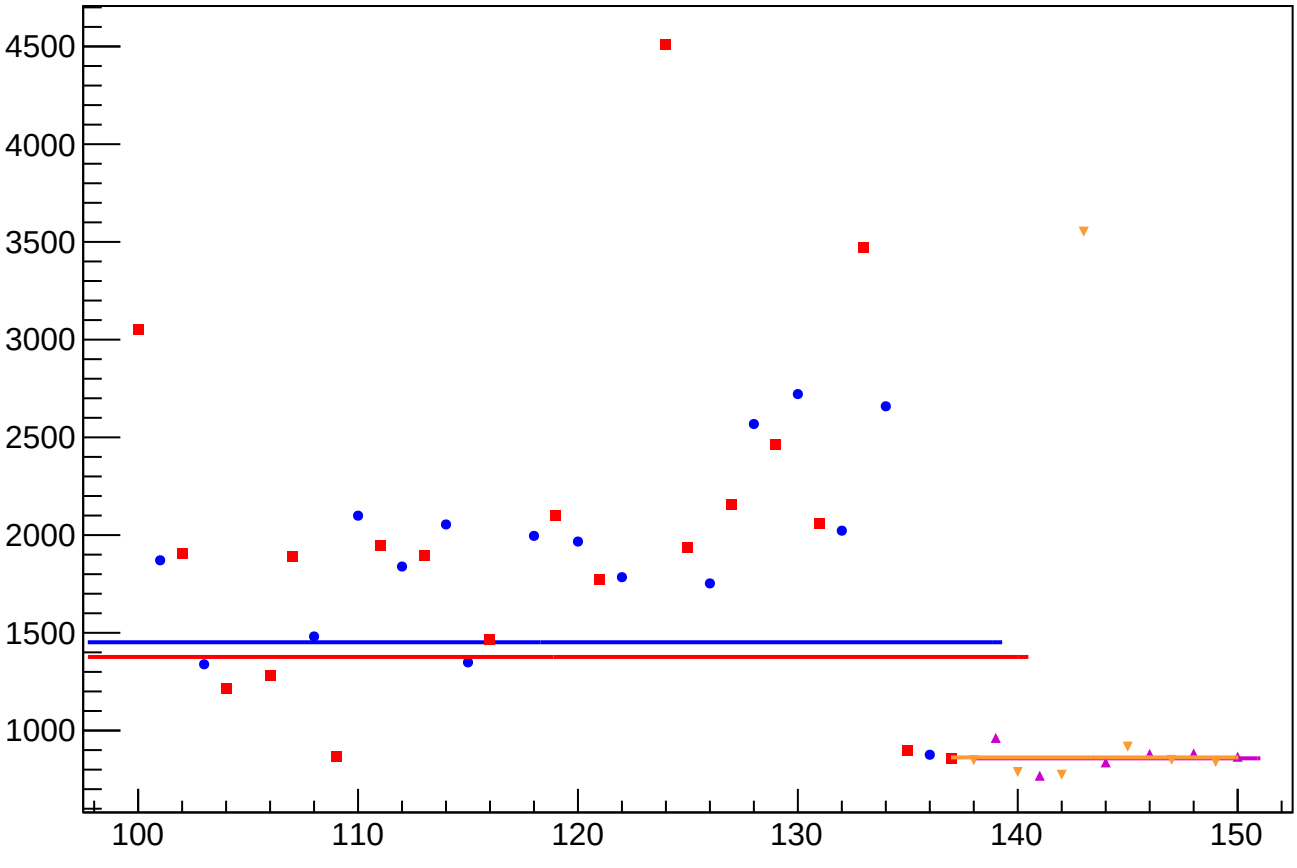
Left: -144.758+/-271.214 $\chi^2$/NDF: 24.7/12

Right: 127.404+/-401.596 $\chi^2$/NDF: 42.6/34

In: 19.043+/-315.067 $\chi^2$/NDF:30.5/21

Out: -140.909+/-320.725 $\chi^2$/NDF:37.0/25

All: -59.509+/-224.760 $\chi^2$/NDF: 67.6/47




Right In: 1451.631+/-0.409 $\chi^2$/NDF: 1790839.5/15

Left Out: 862.490+/-0.277 $\chi^2$/NDF:964351.0/6

Right Out: 1376.470+/-0.394 $\chi^2$/NDF: 2132051.1/18

Left In: 857.846+/-0.266 $\chi^2$/NDF:47031.8/5

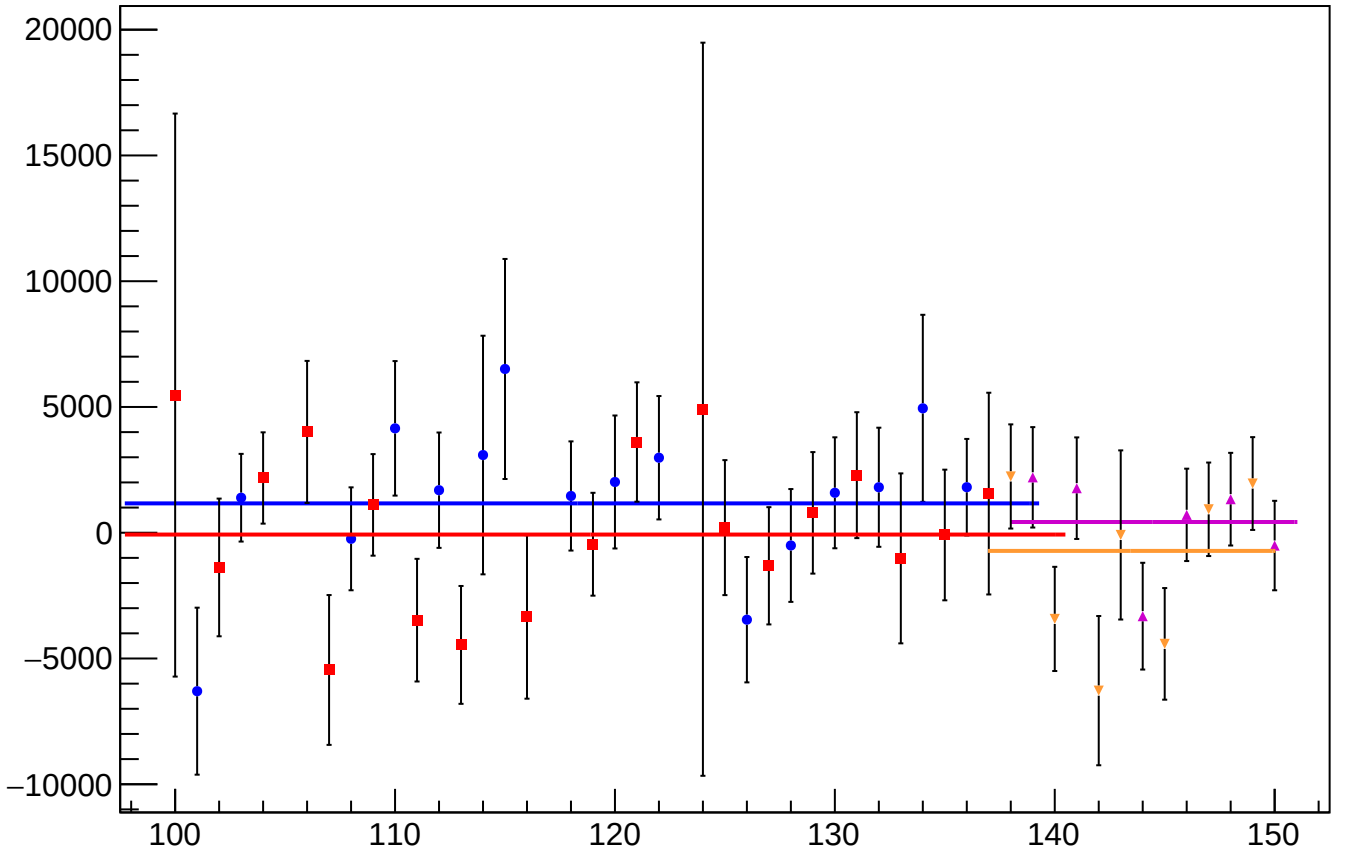
Left: 860.067+/-0.192 $\chi^2$/NDF: 1011529.1/12

Right: 1412.621+/-0.284 $\chi^2$/NDF: 3940379.2/34

In: 1033.632+/-0.223 $\chi^2$/NDF:3318290.7/21

Out: 1032.635+/-0.227 $\chi^2$/NDF:4233852.7/25

All: 1033.142+/-0.159 $\chi^2$/NDF: 7552153.3/47




Right In: 1166.769+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: -722.526+/-829.094 $\chi^2$/NDF:13.0/6

Right Out: -72.499+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 426.443+/-784.288 $\chi^2$/NDF:4.9/5

Left: -116.157+/-569.757 $\chi^2$/NDF: 18.9/12

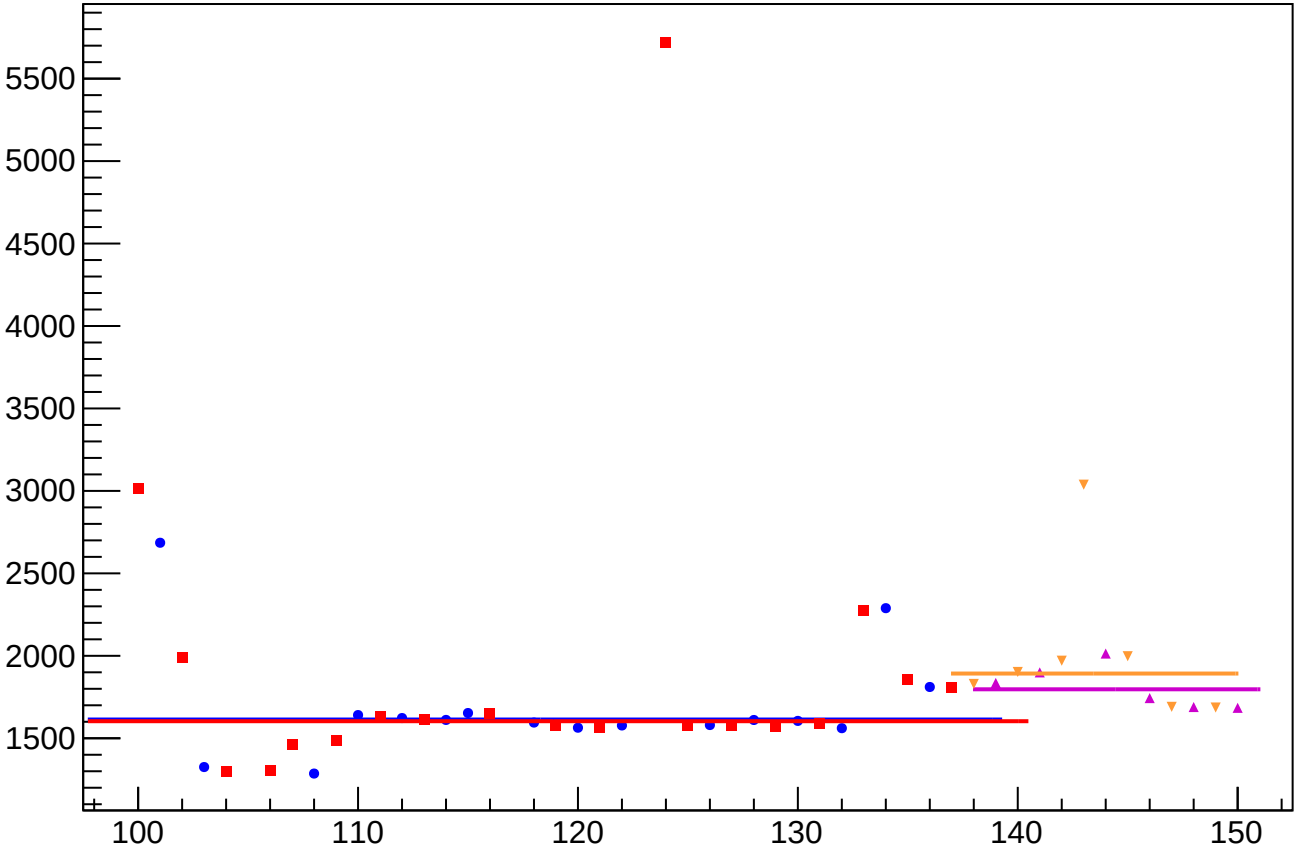
Right: 541.197+/-428.680 $\chi^2$/NDF: 34.8/34

In: 888.197+/-481.098 $\chi^2$/NDF:19.9/21

Out: -297.561+/-487.853 $\chi^2$/NDF:31.7/25

All: 303.584+/-342.551 $\chi^2$/NDF: 54.5/47

# cor_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 1892.491+/-0.586 $\chi^2$/NDF:288335.3/6

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1796.969+/-0.555 $\chi^2$/NDF:43241.3/5

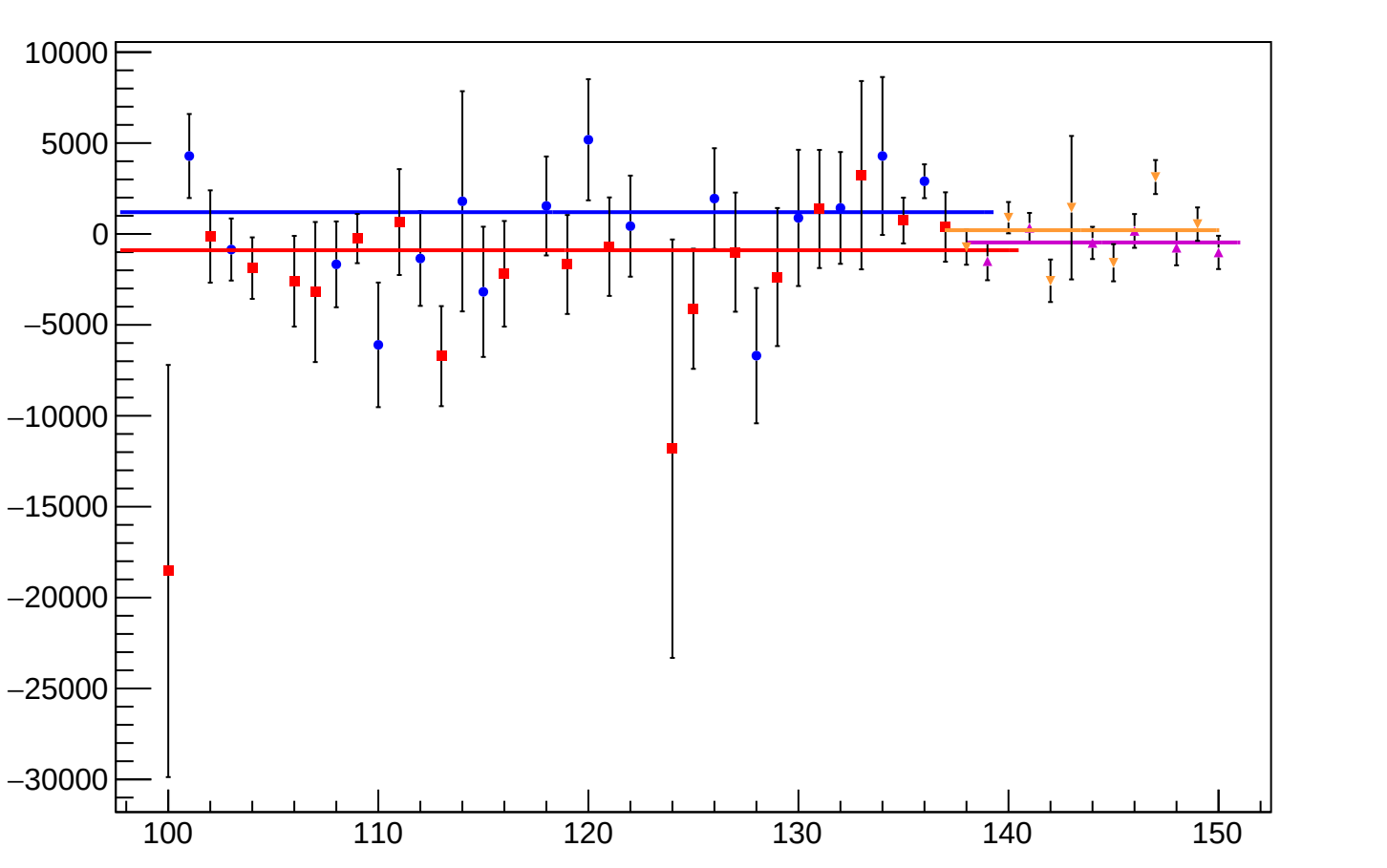
Left: 1842.079+/-0.403 $\chi^2$/NDF: 345587.2/12

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1682.645+/-0.340 $\chi^2$/NDF:516065.0/21

Out: 1703.535+/-0.345 $\chi^2$/NDF:873027.8/25

All: 1692.944+/-0.242 $\chi^2$/NDF: 1390951.9/47




Right In: 1198.338+/-578.240 $\chi^2$/NDF: 21.7/15

Left Out: 206.983+/-392.140 $\chi^2$/NDF:20.3/6

Right Out: -895.463+/-556.666 $\chi^2$/NDF: 14.2/18

Left In: -467.369+/-375.515 $\chi^2$/NDF:2.8/5

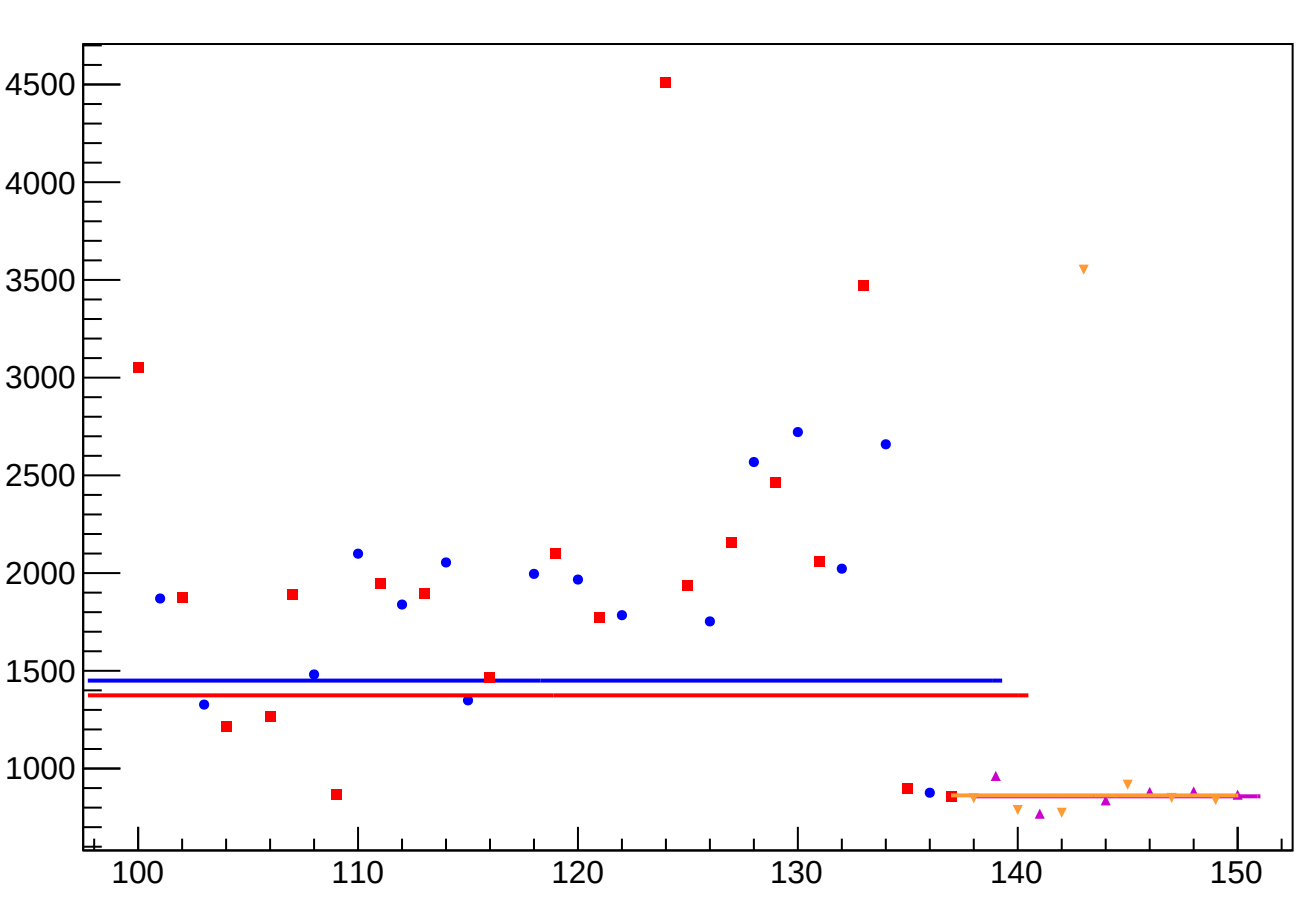
Left: -144.791+/-271.216 $\chi^2$/NDF: 24.7/12

Right: 111.650+/-401.033 $\chi^2$/NDF: 42.7/34

In: 26.734+/-314.933 $\chi^2$/NDF:30.3/21

Out: -158.653+/-320.583 $\chi^2$/NDF:37.1/25

All: -64.311+/-224.662 $\chi^2$/NDF: 67.7/47




Right In: 1449.939+/-0.409 $\chi^2$/NDF: 1792673.2/15

Left Out: 862.512+/-0.277 $\chi^2$/NDF:964318.9/6

Right Out: 1374.438+/-0.394 $\chi^2$/NDF: 2127695.6/18

Left In: 857.840+/-0.266 $\chi^2$/NDF:47049.3/5

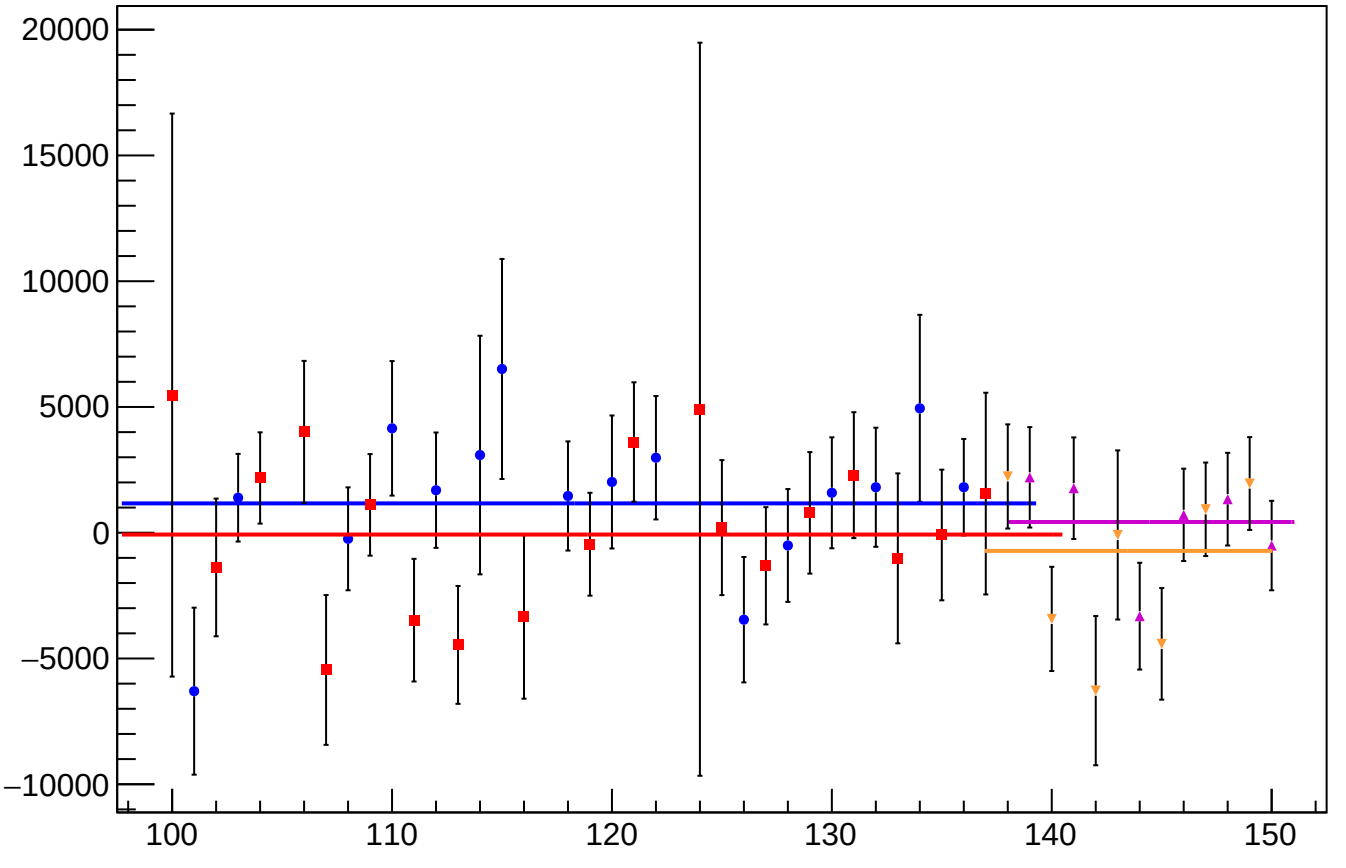
Left: 860.075+/-0.192 $\chi^2$/NDF: 1011516.3/12

Right: 1410.753+/-0.284 $\chi^2$/NDF: 3938065.4/34

In: 1033.476+/-0.223 $\chi^2$/NDF:3314691.4/21

Out: 1032.296+/-0.227 $\chi^2$/NDF:4222468.2/25

All: 1032.897+/-0.159 $\chi^2$/NDF: 7537173.3/47




Right In: 1166.769+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: -722.526+/-829.094 $\chi^2$/NDF:13.0/6

Right Out: -72.499+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 426.443+/-784.288 $\chi^2$/NDF:4.9/5

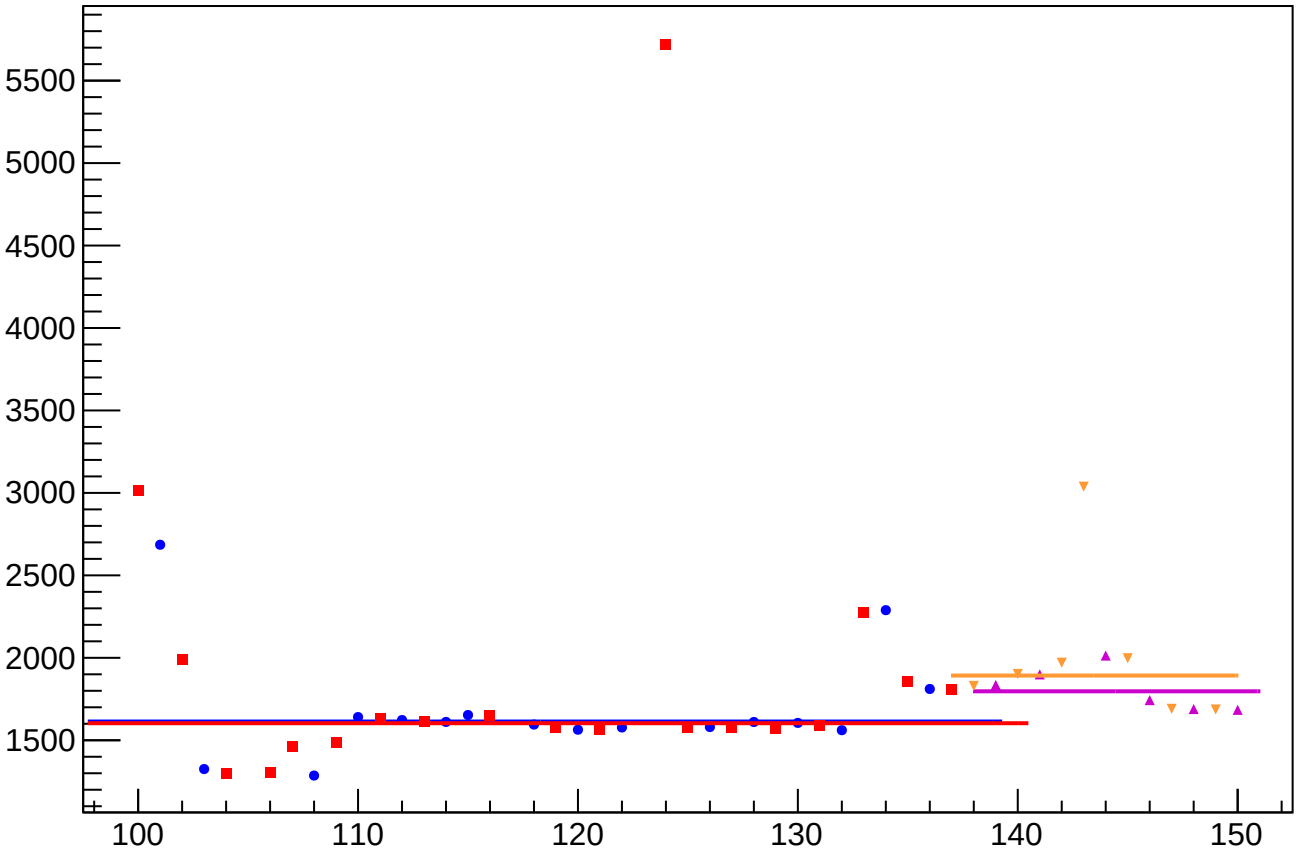
Left: -116.157+/-569.757 $\chi^2$/NDF: 18.9/12

Right: 541.197+/-428.680 $\chi^2$/NDF: 34.8/34

In: 888.197+/-481.098 $\chi^2$/NDF:19.9/21

Out: -297.561+/-487.853 $\chi^2$/NDF:31.7/25

All: 303.584+/-342.551 $\chi^2$/NDF: 54.5/47




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 1892.491+/-0.586 $\chi^2$/NDF:288335.3/6

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1796.969+/-0.555 $\chi^2$/NDF:43241.3/5

Left: 1842.079+/-0.403 $\chi^2$/NDF: 345587.2/12

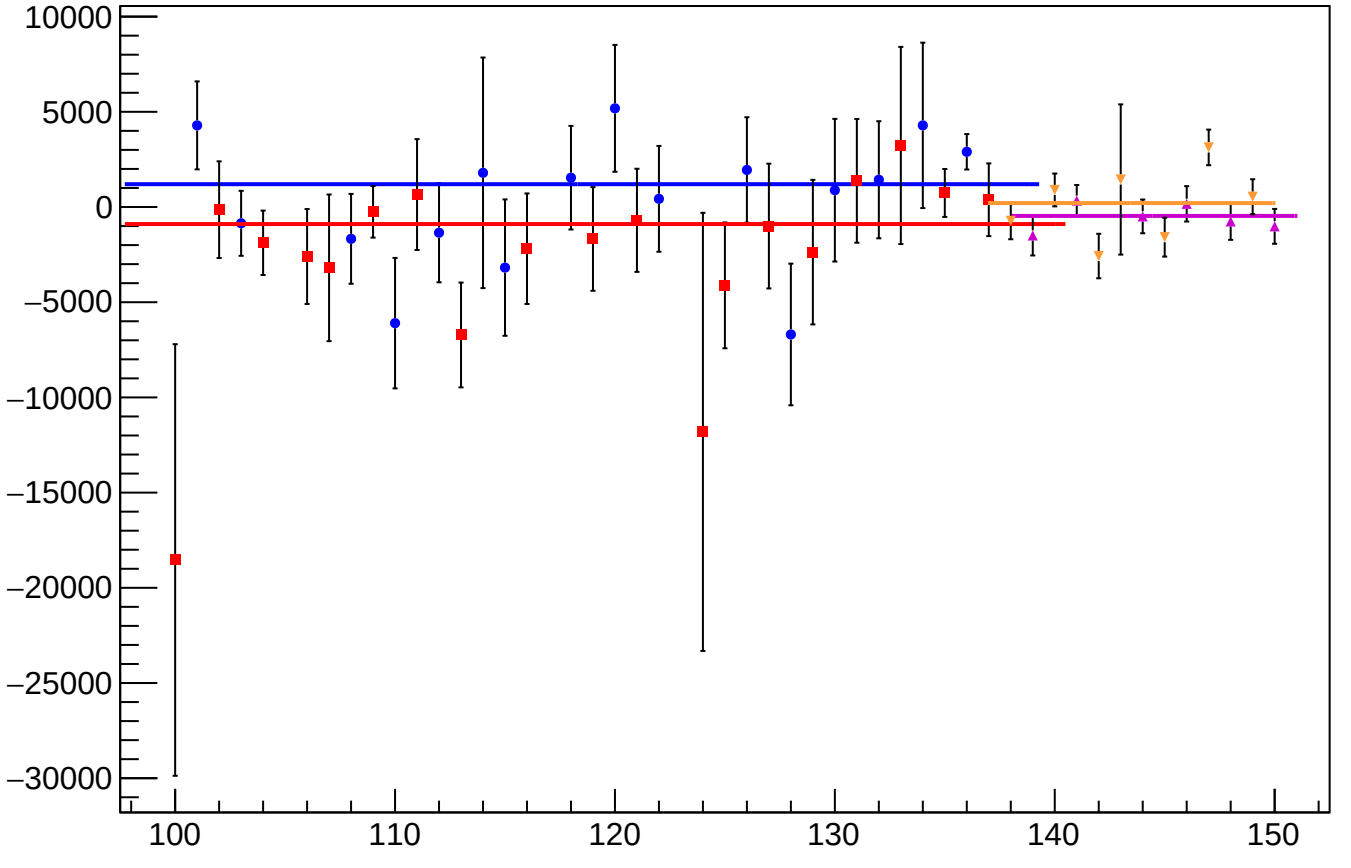
Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1682.645+/-0.340 $\chi^2$/NDF:516065.0/21

Out: 1703.535+/-0.345 $\chi^2$/NDF:873027.8/25

All: 1692.944+/-0.242 $\chi^2$/NDF: 1390951.9/47

asym_at2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1198.338+/-578.240 $\chi^2$/NDF: 21.7/15

Left Out: 206.983+/-392.140 $\chi^2$/NDF:20.3/6

Right Out: -895.463+/-556.666 $\chi^2$/NDF: 14.2/18

Left In: -467.369+/-375.515 $\chi^2$/NDF:2.8/5

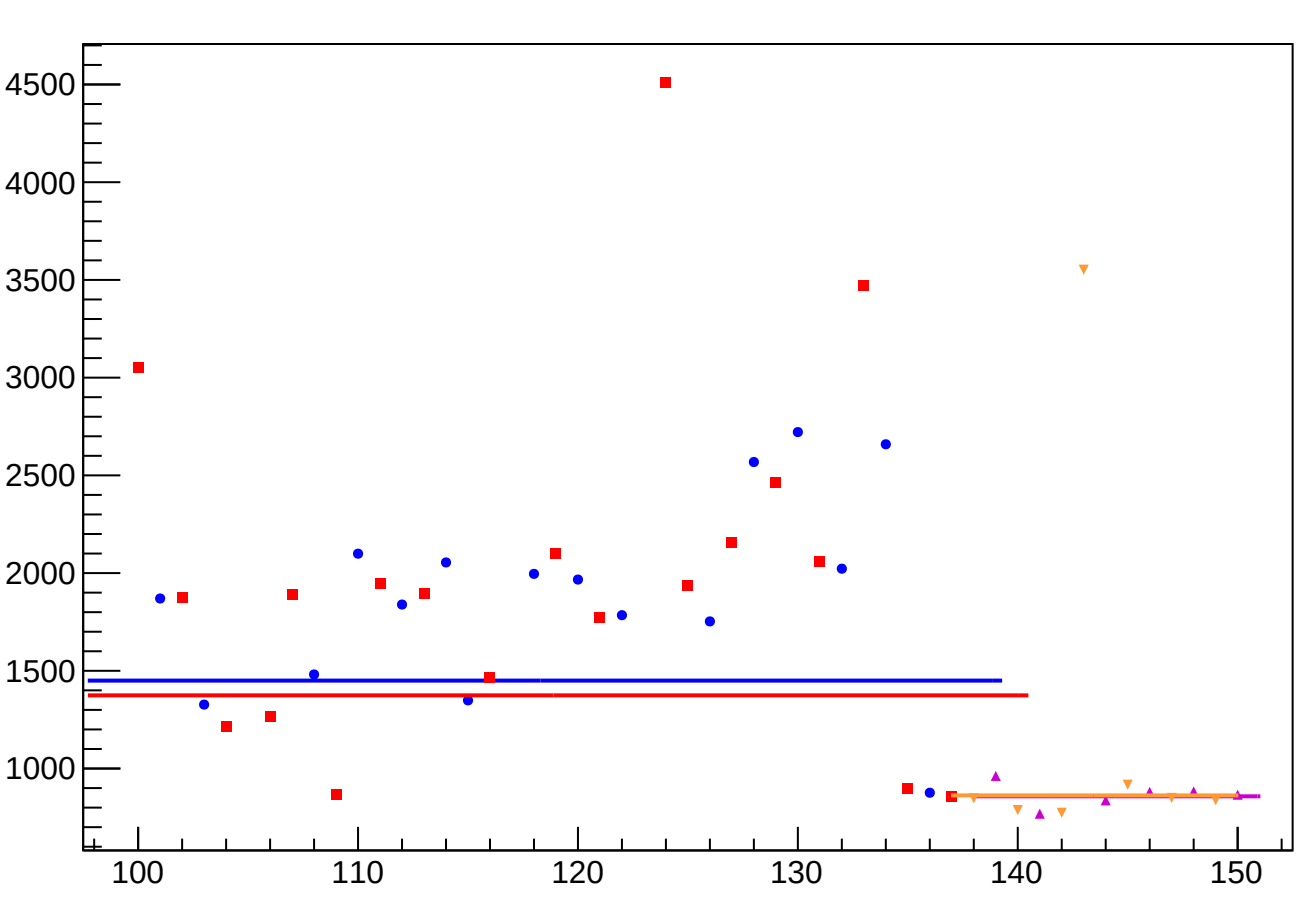
Left: -144.791+/-271.216 $\chi^2$/NDF: 24.7/12

Right: 111.650+/-401.033 $\chi^2$/NDF: 42.7/34

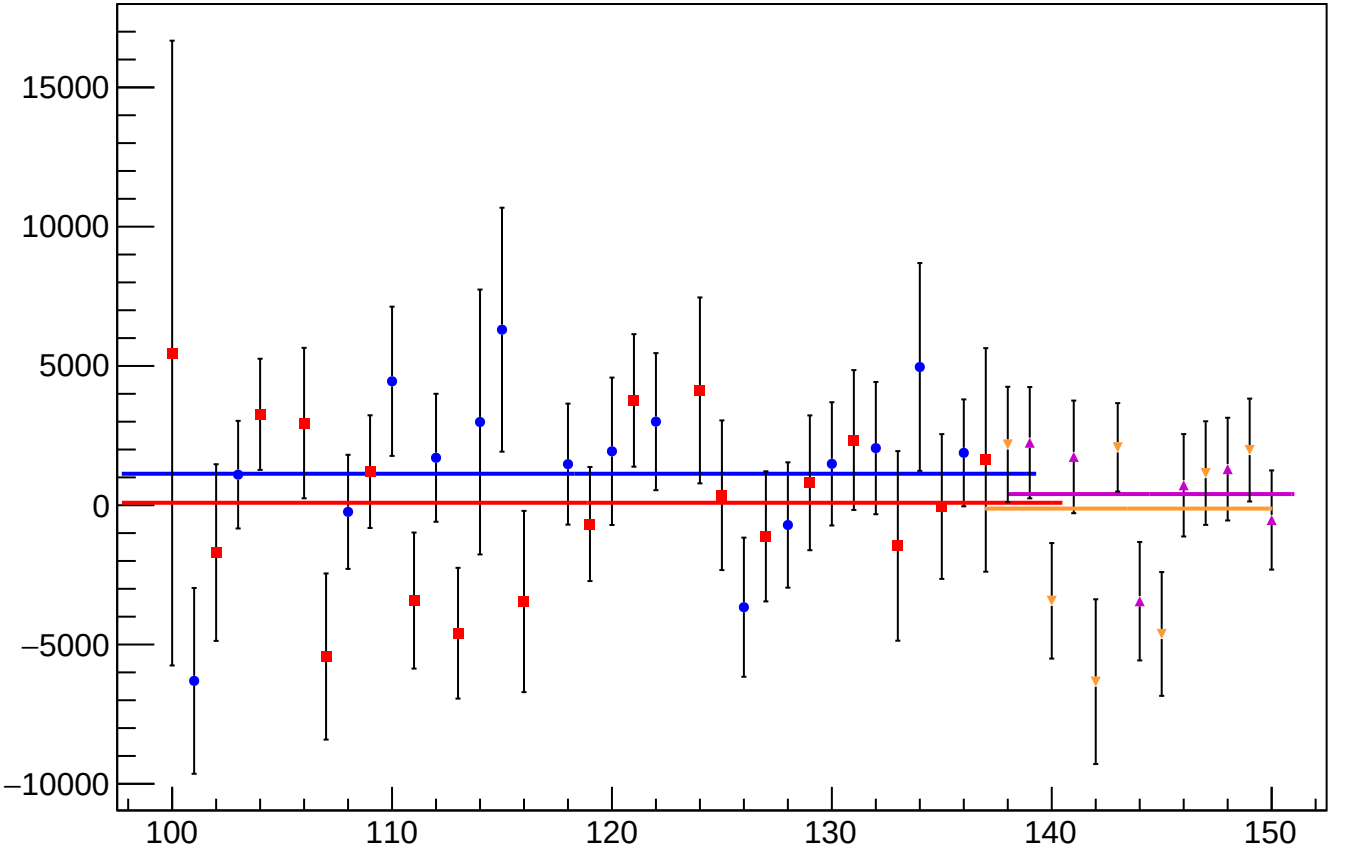
In: 26.734+/-314.933 $\chi^2$/NDF:30.3/21

Out: -158.653+/-320.583 $\chi^2$/NDF:37.1/25

All: -64.311+/-224.662 $\chi^2$/NDF: 67.7/47


asym_at2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
4500
4000
3500
3000
2500
2000
1500
1000
100
110
120
130
140
150
Right In: 1449.939+/-0.409 χ²/NDF: 1792673.2/15
Left Out: 862.512+/-0.277 χ²/NDF:964318.9/6
Right Out: 1374.438+/-0.394 χ²/NDF: 2127695.6/18
Left In: 857.840+/-0.266 χ²/NDF:47049.3/5
Left: 860.075+/-0.192 χ²/NDF: 1011516.3/12
Right: 1410.753+/-0.284 χ²/NDF: 3938065.4/34
In: 1033.476+/-0.223 χ²/NDF:3314691.4/21
Out: 1032.296+/-0.227 χ²/NDF:4222468.2/25
All: 1032.897+/-0.159 χ²/NDF: 7537173.3/47

# dit_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1130.726+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: -119.787+/-753.502 $\chi^2$/NDF:16.0/6

Right Out: 89.220+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 401.483+/-785.169 $\chi^2$/NDF:5.1/5

Left: 130.124+/-543.657 $\chi^2$/NDF: 21.3/12

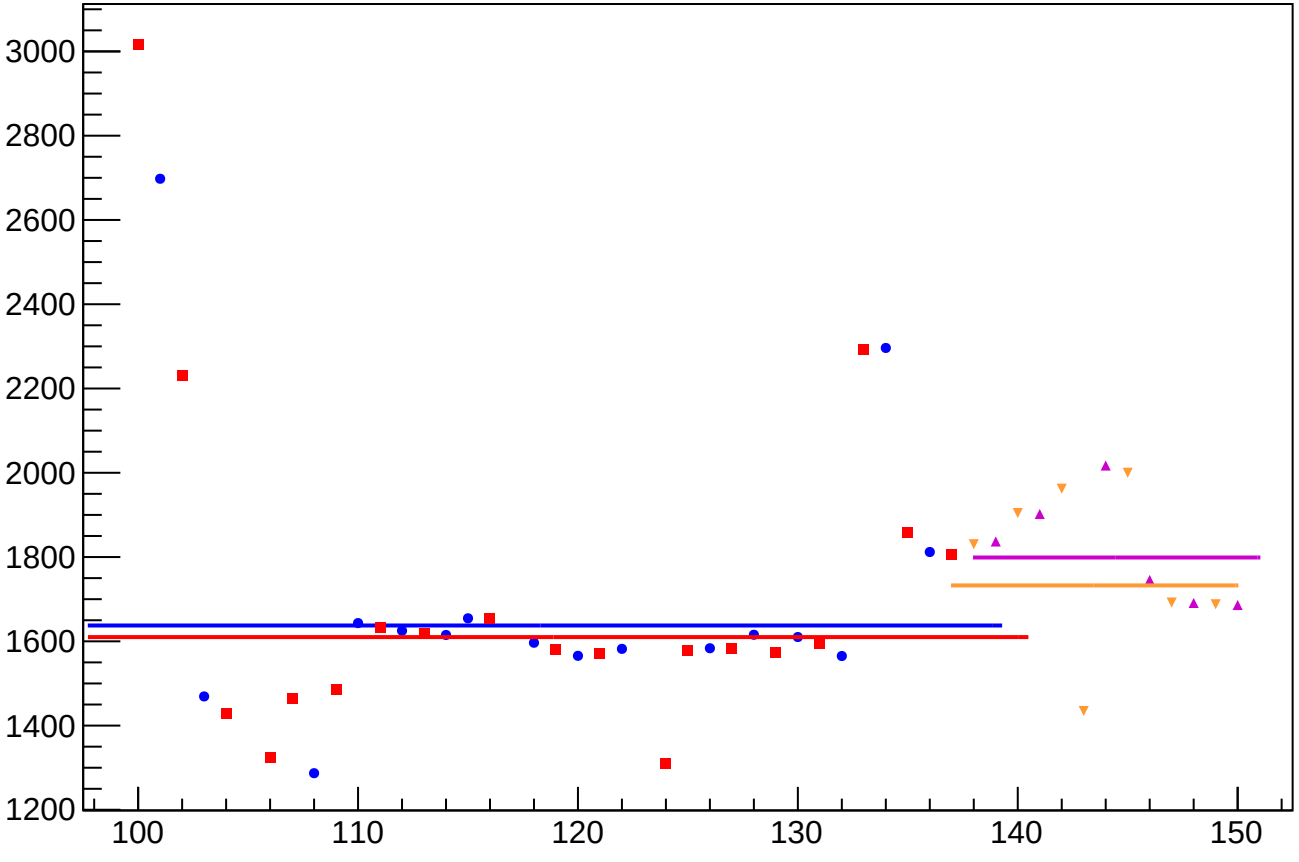
Right: 597.886+/-431.357 $\chi^2$/NDF: 37.1/34

In: 852.194+/-485.249 $\chi^2$/NDF:20.6/21

Out: 7.612+/-470.838 $\chi^2$/NDF:36.7/25

All: 417.176+/-337.912 $\chi^2$/NDF: 58.9/47

# dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361417.0/15

Left Out: 1732.679+/-0.533 $\chi^2$/NDF:131783.0/6

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.5/18

Left In: 1798.944+/-0.555 $\chi^2$/NDF:43575.9/5

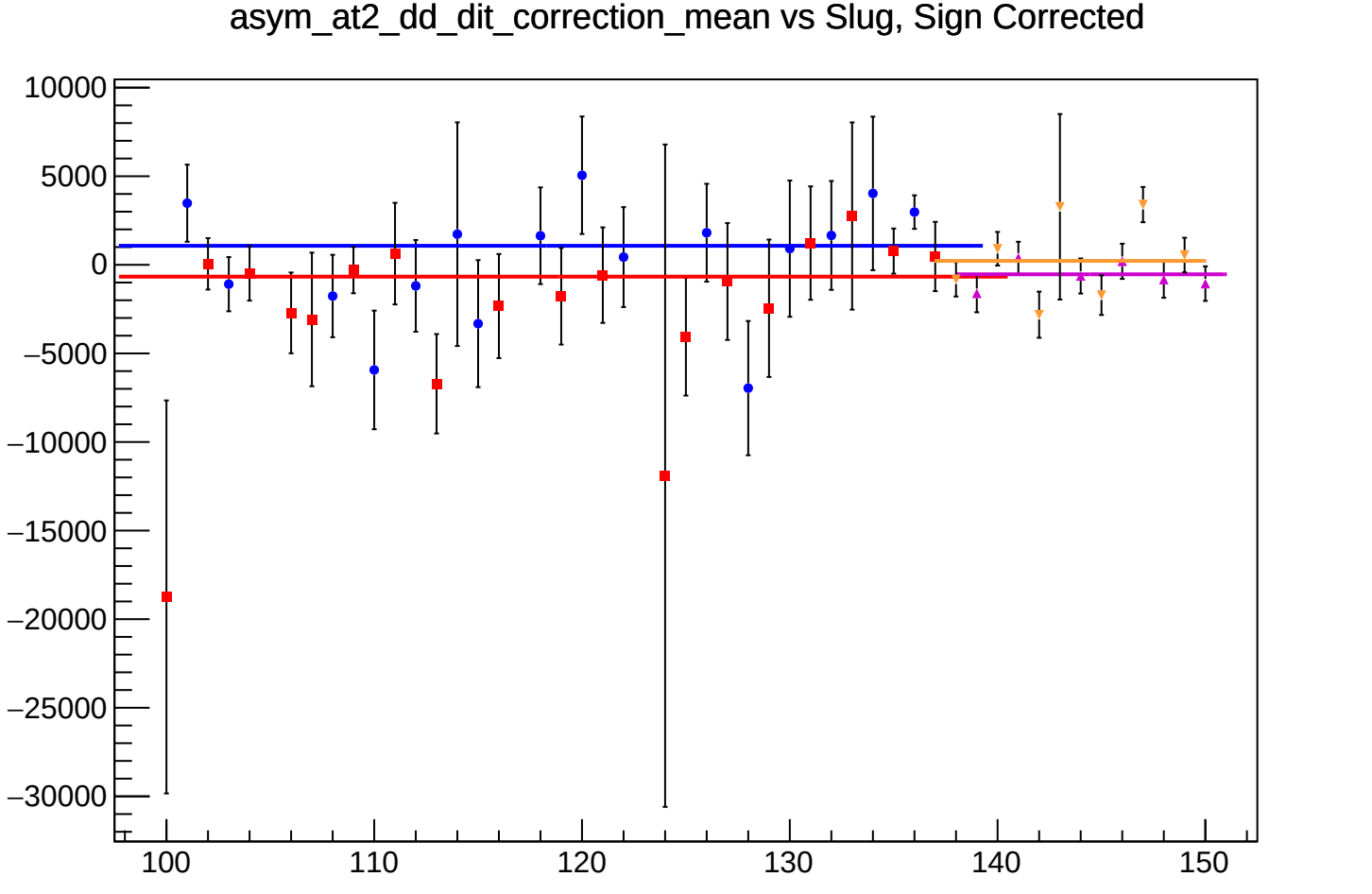
Left: 1764.448+/-0.384 $\chi^2$/NDF: 182774.5/12

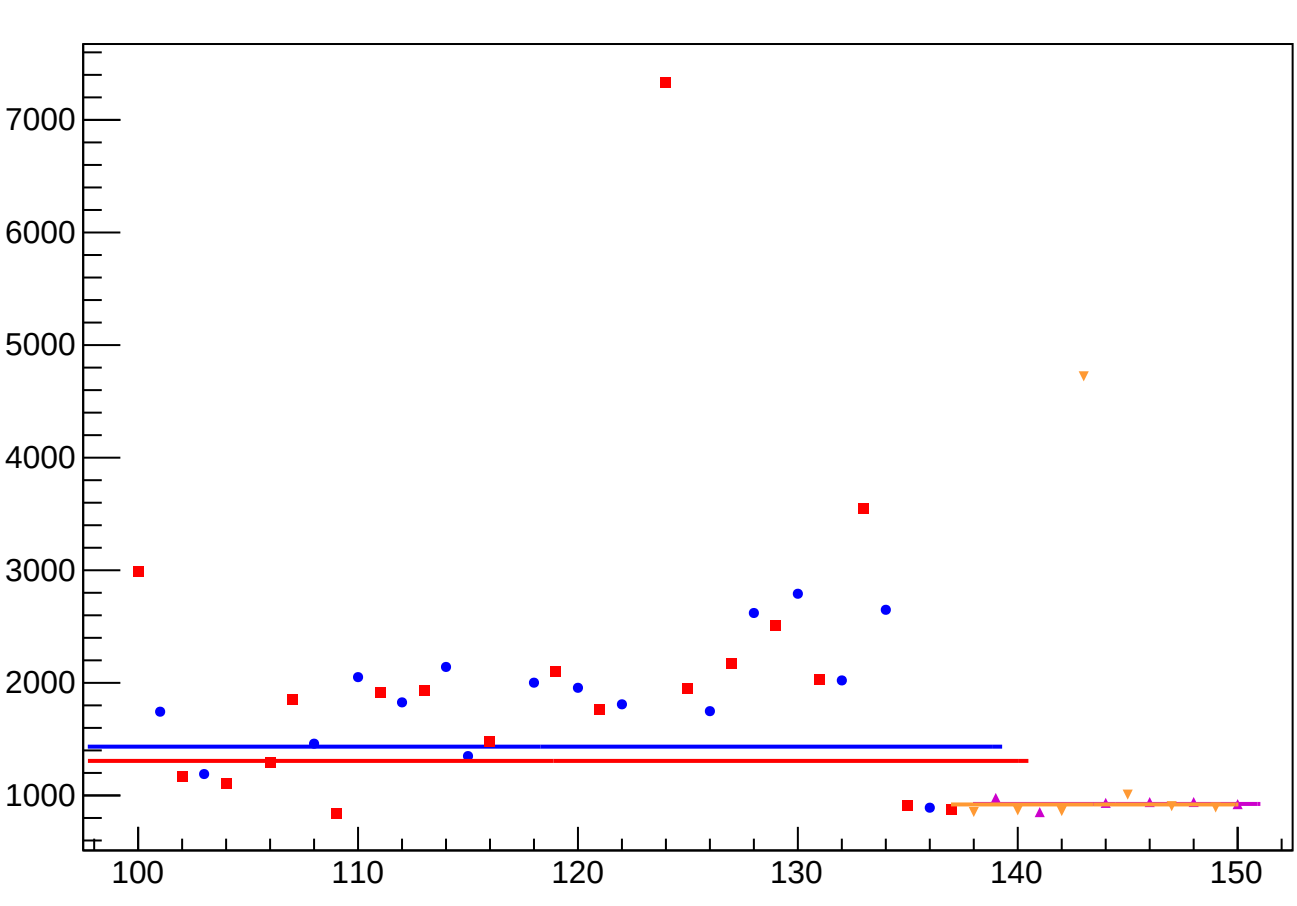
Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

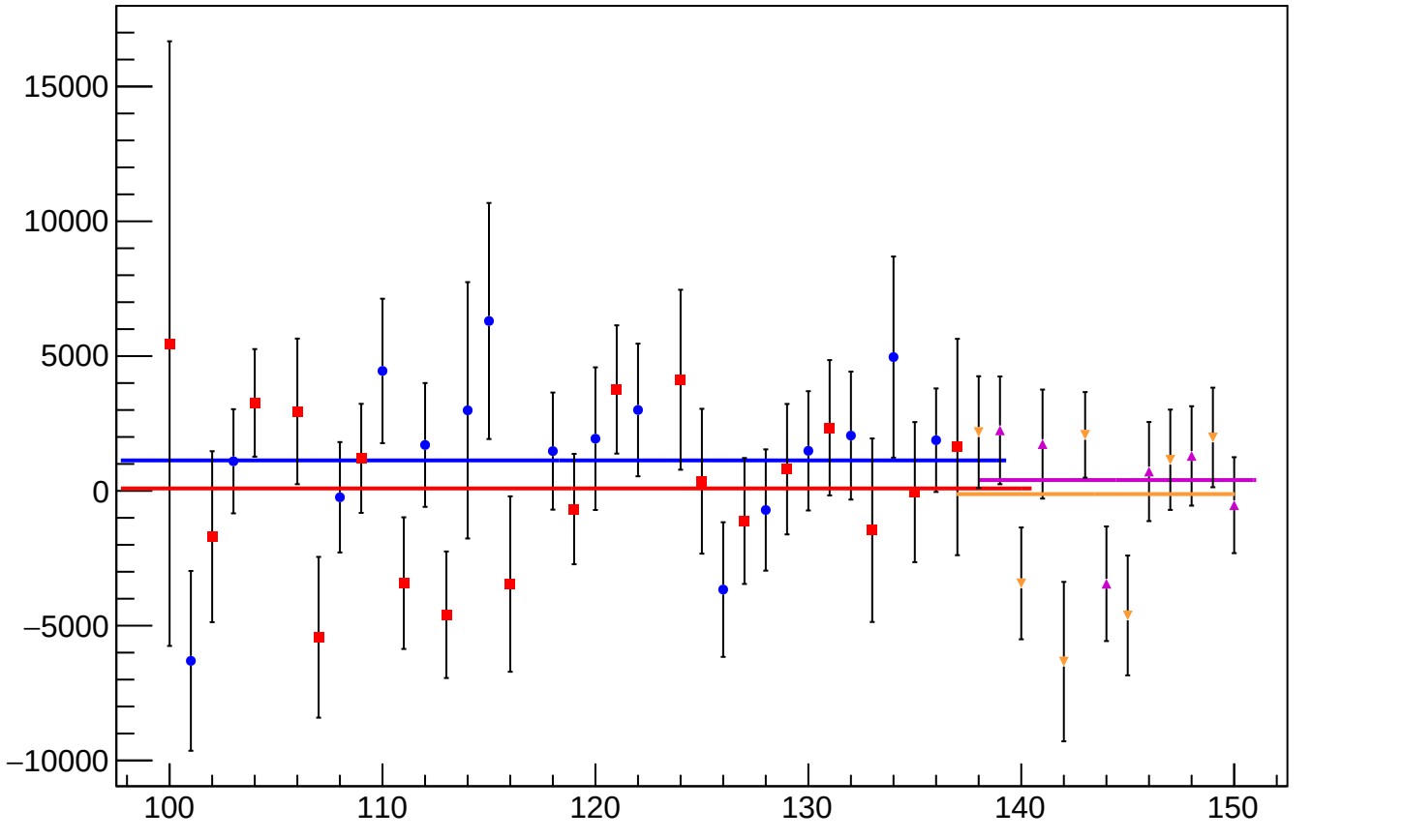
In: 1699.208+/-0.343 $\chi^2$/NDF:457205.4/21

Out: 1657.927+/-0.333 $\chi^2$/NDF:444887.9/25

All: 1677.946+/-0.239 $\chi^2$/NDF: 909548.8/47


asym_at2_dd_dit_correction_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
110
120
130
140
150
Right In: 1073.600+/-571.609 χ²/NDF: 22.0/15
Left Out: 221.960+/-420.743 χ²/NDF:20.7/6
Right Out: -667.777+/-523.477 χ²/NDF: 13.6/18
Left In: -535.502+/-404.236 χ²/NDF:3.0/5
Left: -171.922+/-291.499 χ²/NDF: 25.4/12
Right: 126.521+/-386.051 χ²/NDF: 40.6/34
In: 0.949+/-330.044 χ²/NDF:30.3/21
Out: -127.236+/-327.945 χ²/NDF:36.0/25
All: -63.553+/-232.631 χ²/NDF: 66.4/47


asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
Right In: 1433.477+/-0.404 χ²/NDF: 1763491.8/15
Left Out: 920.074+/-0.298 χ²/NDF:1089080.6/6
Right Out: 1306.866+/-0.370 χ²/NDF: 2183906.3/18
Left In: 924.616+/-0.286 χ²/NDF:19009.0/5
Left: 922.436+/-0.206 χ²/NDF: 1108210.8/12
Right: 1364.618+/-0.273 χ²/NDF: 4000764.0/34
In: 1094.263+/-0.233 χ²/NDF:2839087.8/21
Out: 1071.879+/-0.232 χ²/NDF:3936359.1/25
All: 1082.999+/-0.164 χ²/NDF: 6780075.9/47




Right In: 1130.728+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: -119.798+/-753.502 $\chi^2$/NDF:16.0/6

Right Out: 89.225+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 401.477+/-785.169 $\chi^2$/NDF:5.1/5

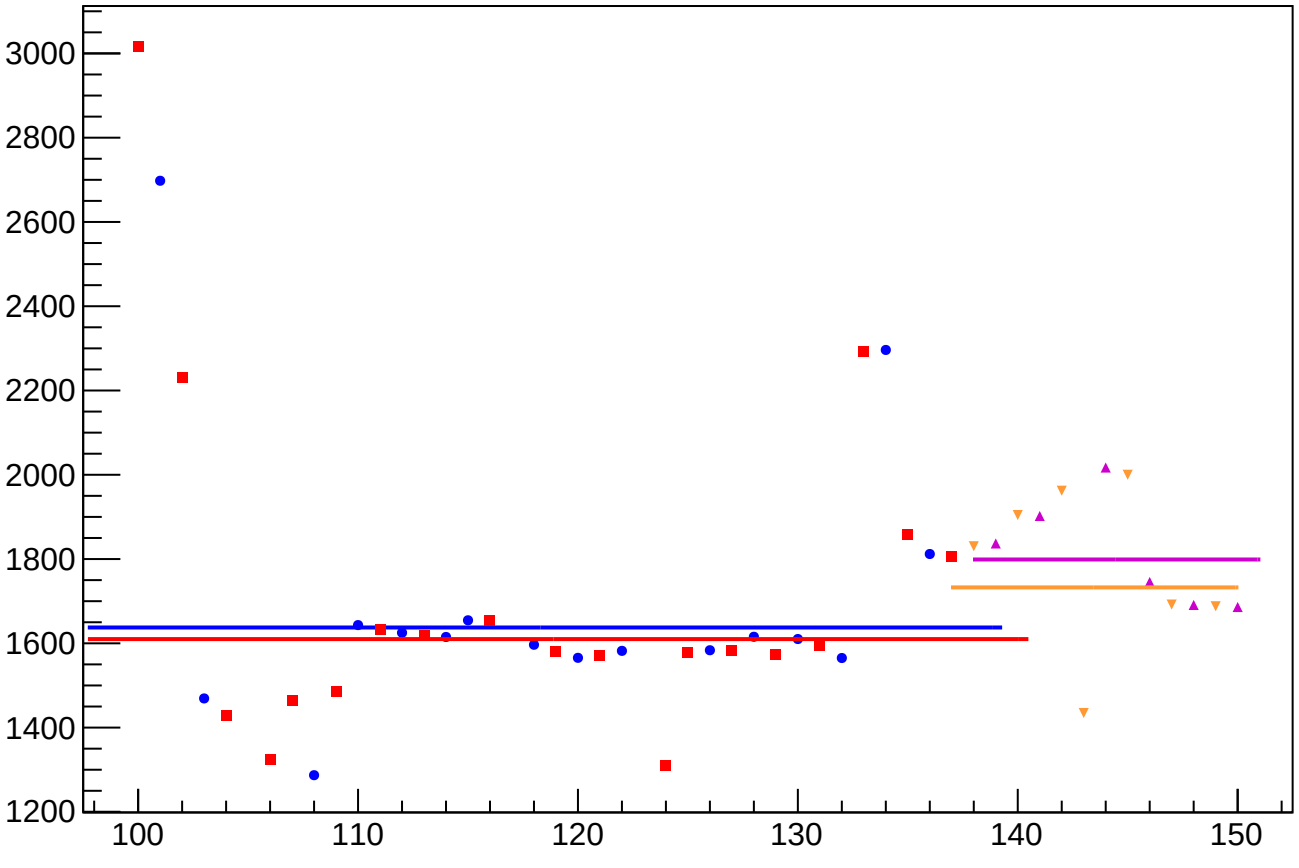
Left: 130.116+/-543.657 $\chi^2$/NDF: 21.3/12

Right: 597.890+/-431.357 $\chi^2$/NDF: 37.1/34

In: 852.193+/-485.249 $\chi^2$/NDF:20.6/21

Out: 7.611+/-470.838 $\chi^2$/NDF:36.7/25

All: 417.175+/-337.912 $\chi^2$/NDF: 58.9/47




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361416.8/15

Left Out: 1732.680+/-0.533 $\chi^2$/NDF:131781.9/6

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.7/18

Left In: 1798.943+/-0.555 $\chi^2$/NDF:43576.0/5

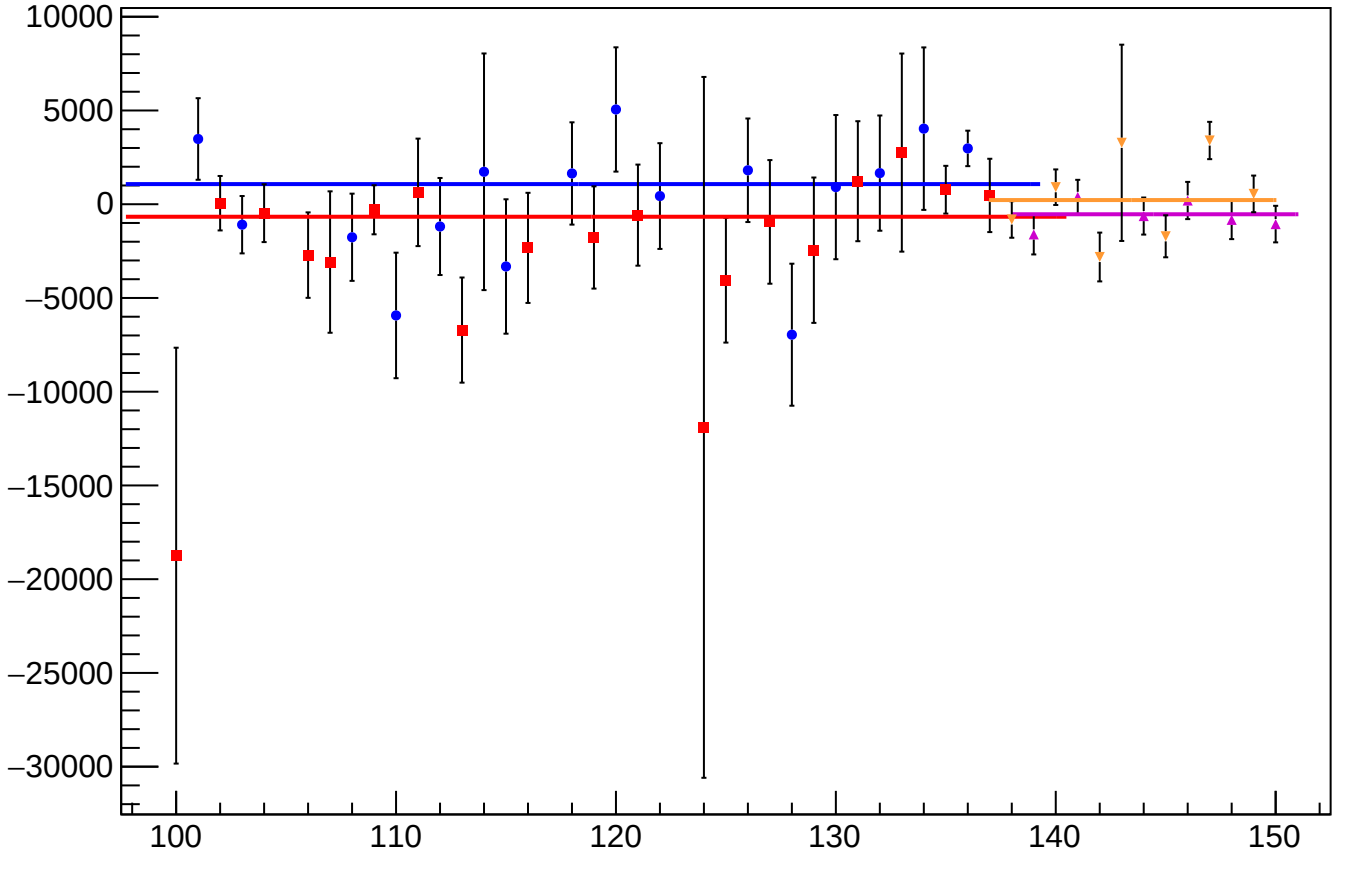
Left: 1764.448+/-0.384 $\chi^2$/NDF: 182773.4/12

Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

In: 1699.208+/-0.343 $\chi^2$/NDF:457205.3/21

Out: 1657.927+/-0.333 $\chi^2$/NDF:444887.4/25

All: 1677.946+/-0.239 $\chi^2$/NDF: 909548.1/47




Right In: 1073.589+/-571.613 $\chi^2$/NDF: 22.0/15

Left Out: 221.972+/-420.746 $\chi^2$/NDF:20.7/6

Right Out: -667.789+/-523.481 $\chi^2$/NDF: 13.6/18

Left In: -535.502+/-404.236 $\chi^2$/NDF:3.0/5

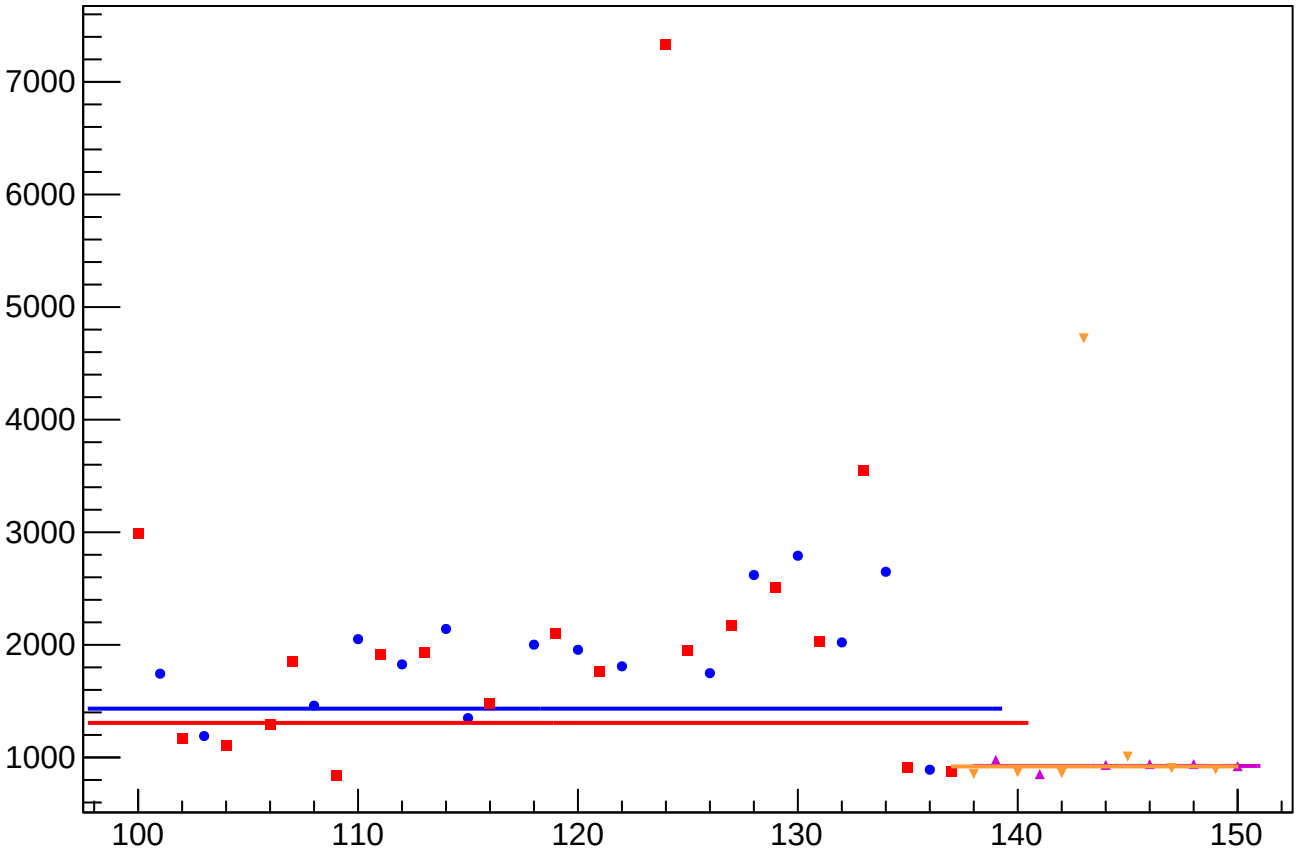
Left: -171.918+/-291.500 $\chi^2$/NDF: 25.4/12

Right: 126.509+/-386.053 $\chi^2$/NDF: 40.6/34

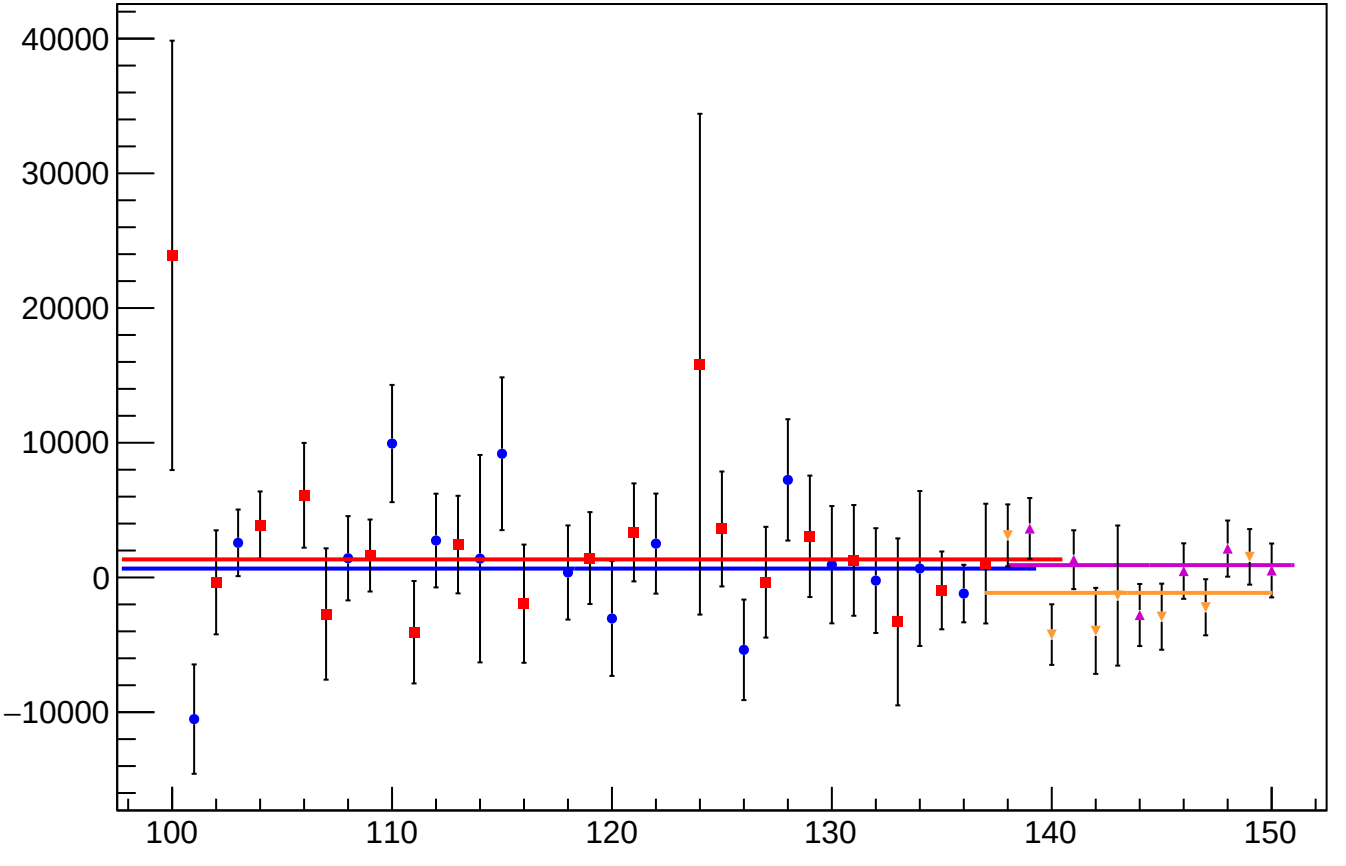
In: 0.941+/-330.045 $\chi^2$/NDF:30.3/21

Out: -127.233+/-327.947 $\chi^2$/NDF:36.0/25

All: -63.555+/-232.632 $\chi^2$/NDF: 66.4/47


asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
Right In: 1433.492+/-0.404 χ²/NDF: 1763397.4/15
Left Out: 920.081+/-0.298 χ²/NDF:1089070.8/6
Right Out: 1306.880+/-0.370 χ²/NDF: 2183835.0/18
Left In: 924.617+/-0.286 χ²/NDF:19009.9/5
Left: 922.440+/-0.206 χ²/NDF: 1108201.5/12
Right: 1364.632+/-0.273 χ²/NDF: 4000599.5/34
In: 1094.267+/-0.233 χ²/NDF:2839042.9/21
Out: 1071.888+/-0.232 χ²/NDF:3936291.8/25
All: 1083.006+/-0.164 χ²/NDF: 6779961.8/47

# asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 659.458+/-909.570 $\chi^2$/NDF: 22.0/15

Left Out: -1143.351+/-930.665 $\chi^2$/NDF:8.6/6

Right Out: 1341.998+/-890.576 $\chi^2$/NDF: 10.8/18

Left In: 914.785+/-873.957 $\chi^2$/NDF:4.5/5

Left: -49.671+/-637.086 $\chi^2$/NDF: 15.7/12

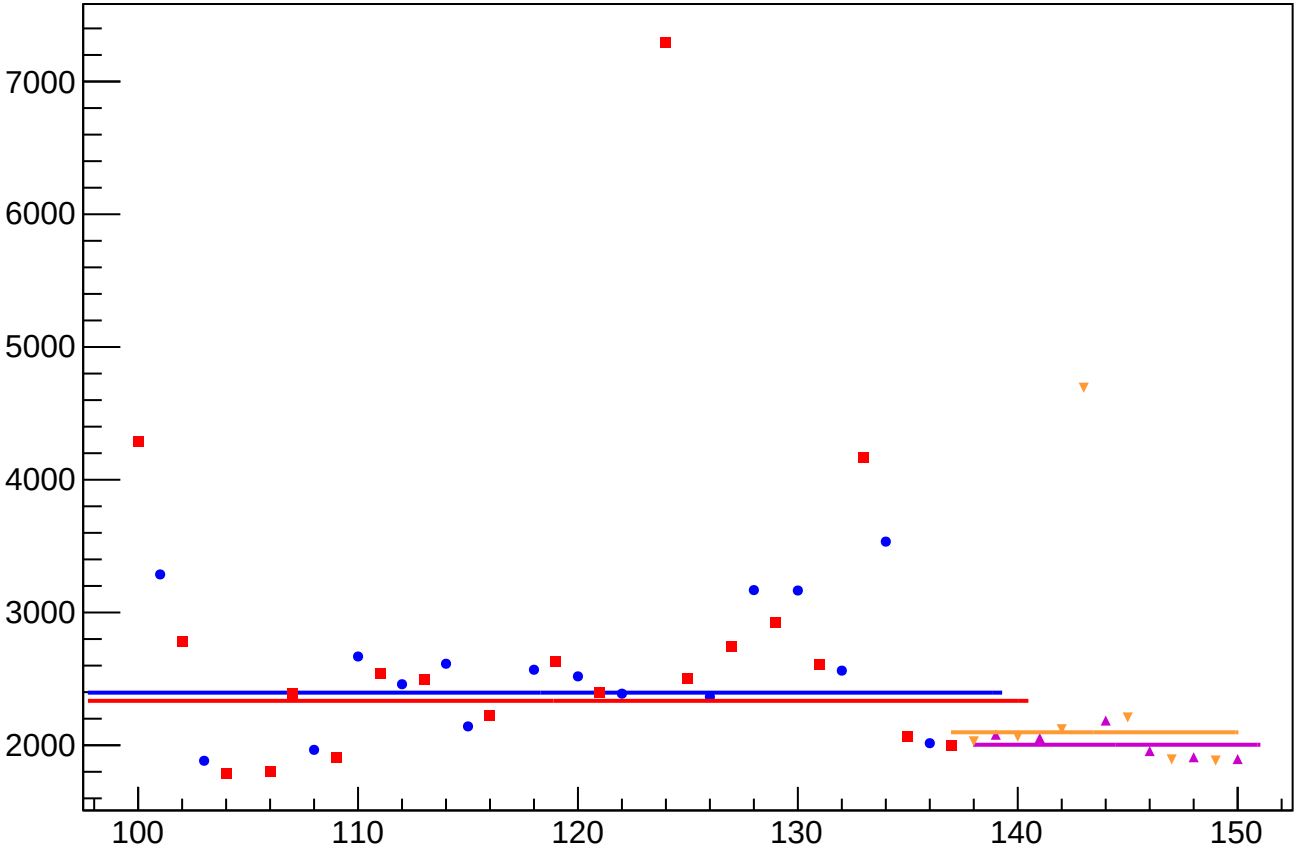
Right: 1007.929+/-636.341 $\chi^2$/NDF: 33.1/34

In: 792.218+/-630.195 $\chi^2$/NDF:26.5/21

Out: 154.005+/-643.438 $\chi^2$/NDF:23.1/25

All: 479.747+/-450.224 $\chi^2$/NDF: 50.2/47

# asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 2396.276+/-0.643 $\chi^2$/NDF: 507897.2/15

Left Out: 2097.739+/-0.658 $\chi^2$/NDF:545123.0/6

Right Out: 2334.592+/-0.630 $\chi^2$/NDF: 681568.6/18

Left In: 2003.800+/-0.618 $\chi^2$/NDF:26770.1/5

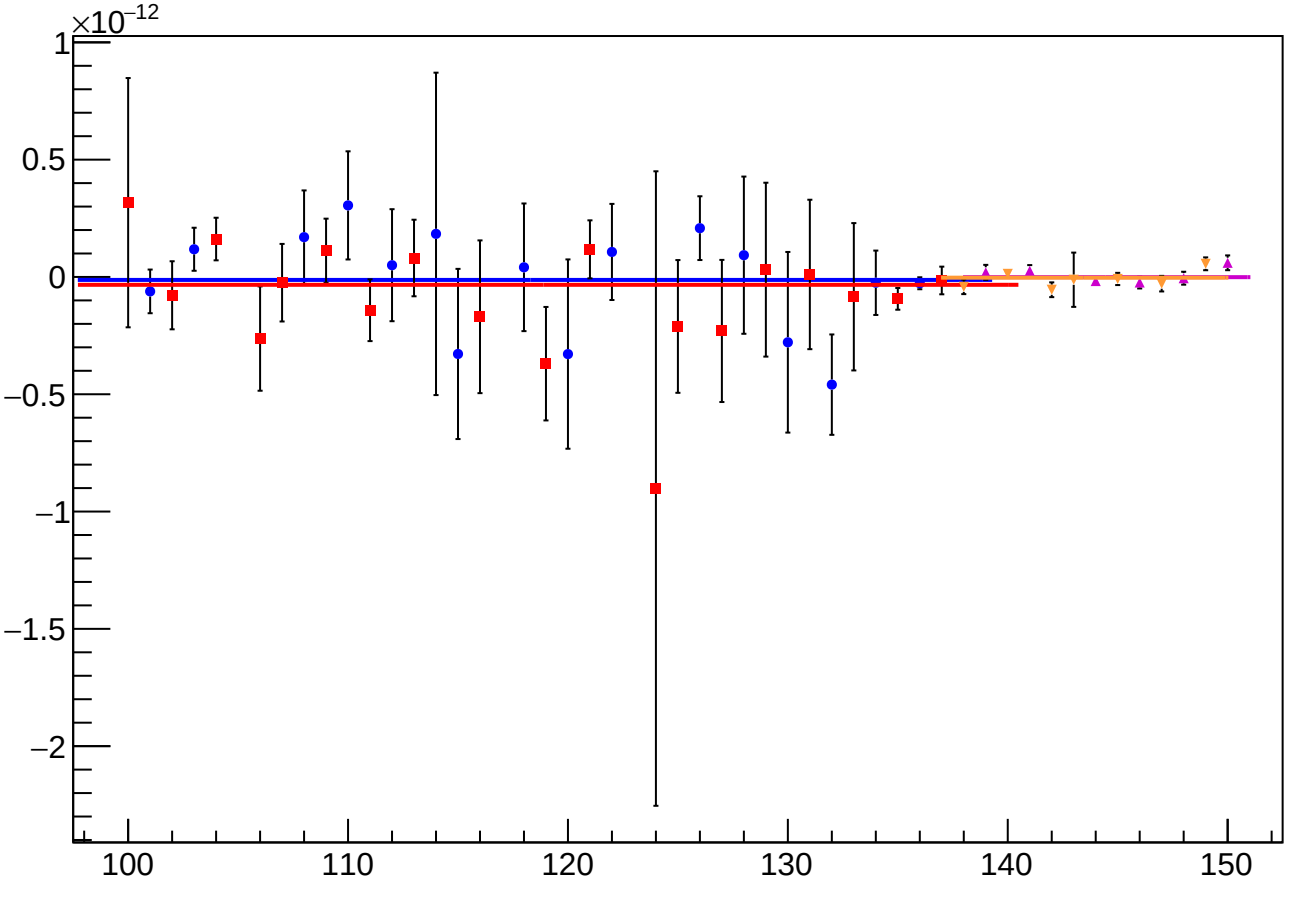
Left: 2047.820+/-0.450 $\chi^2$/NDF: 582721.0/12

Right: 2364.783+/-0.450 $\chi^2$/NDF: 1194162.0/34

In: 2192.204+/-0.446 $\chi^2$/NDF:728288.9/21

Out: 2221.378+/-0.455 $\chi^2$/NDF:1294312.1/25

All: 2206.488+/-0.318 $\chi^2$/NDF: 2024699.4/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.7/5

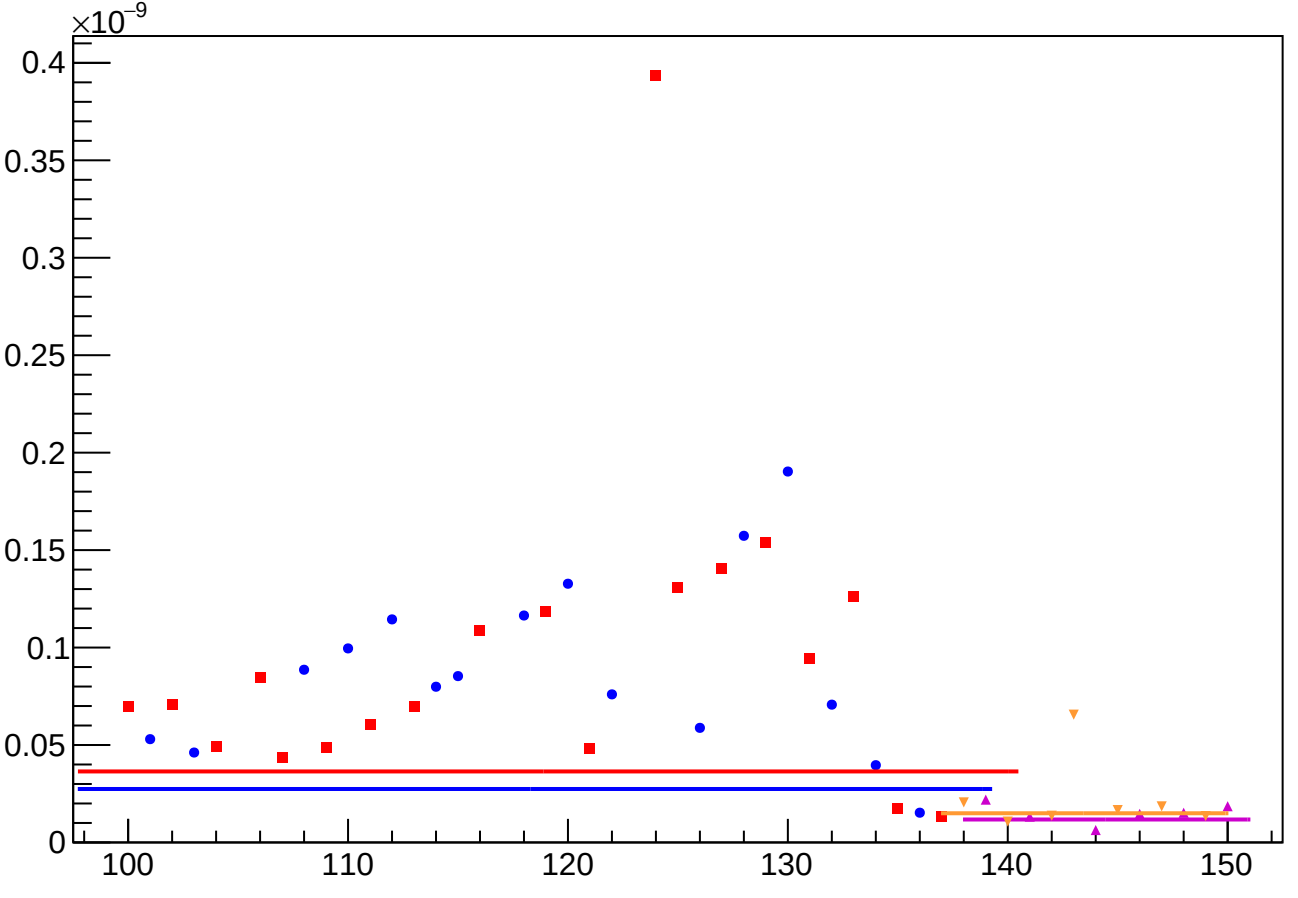
Left: -0.000+/-0.000 $\chi^2$/NDF: 18.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 49.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2728016.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:589049.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2442395.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:670079.3/5

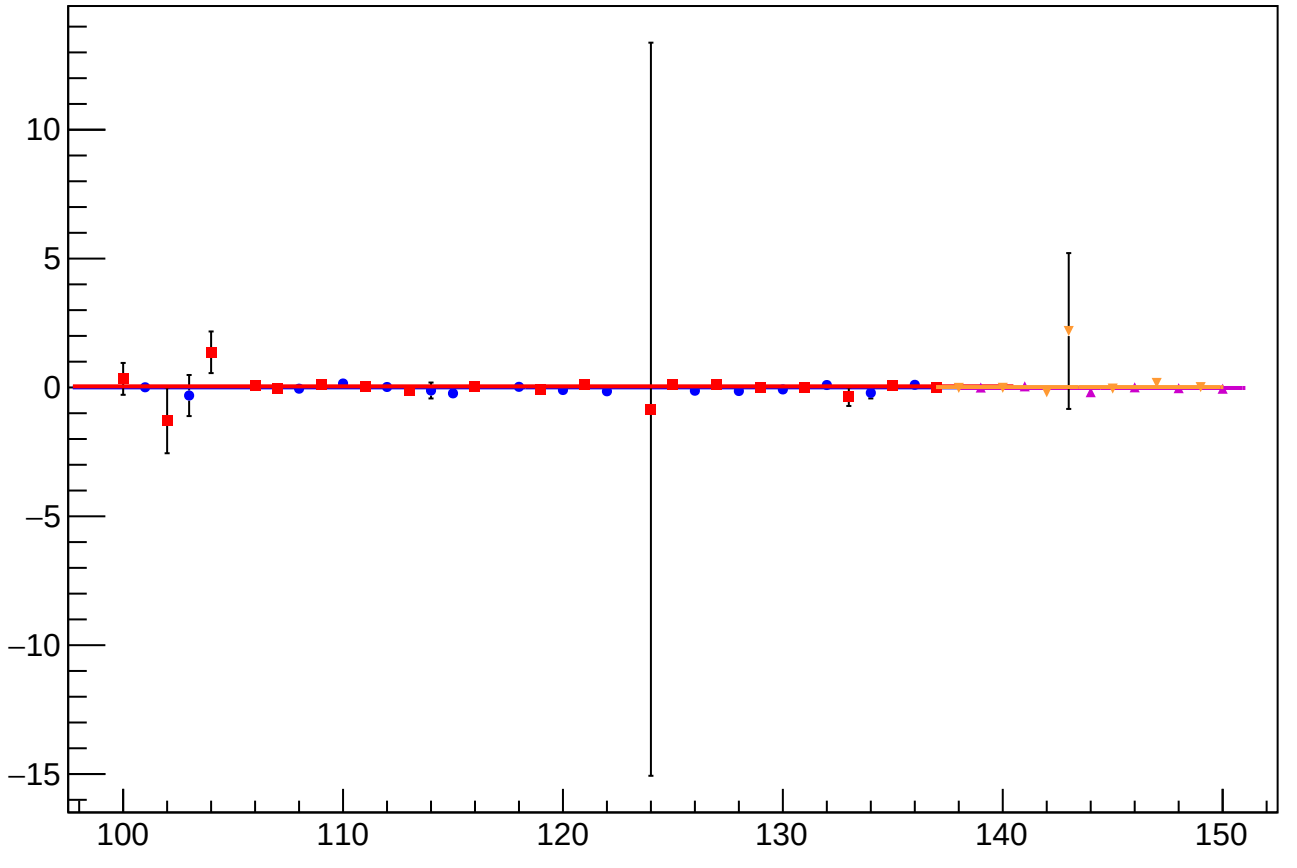
Left: 0.000+/-0.000 $\chi^2$/NDF: 1361437.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5297550.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:4247906.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4055640.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8458441.7/47




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.016+/-0.028 $\chi^2$/NDF:9.9/6

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.021+/-0.028 $\chi^2$/NDF:3.1/5

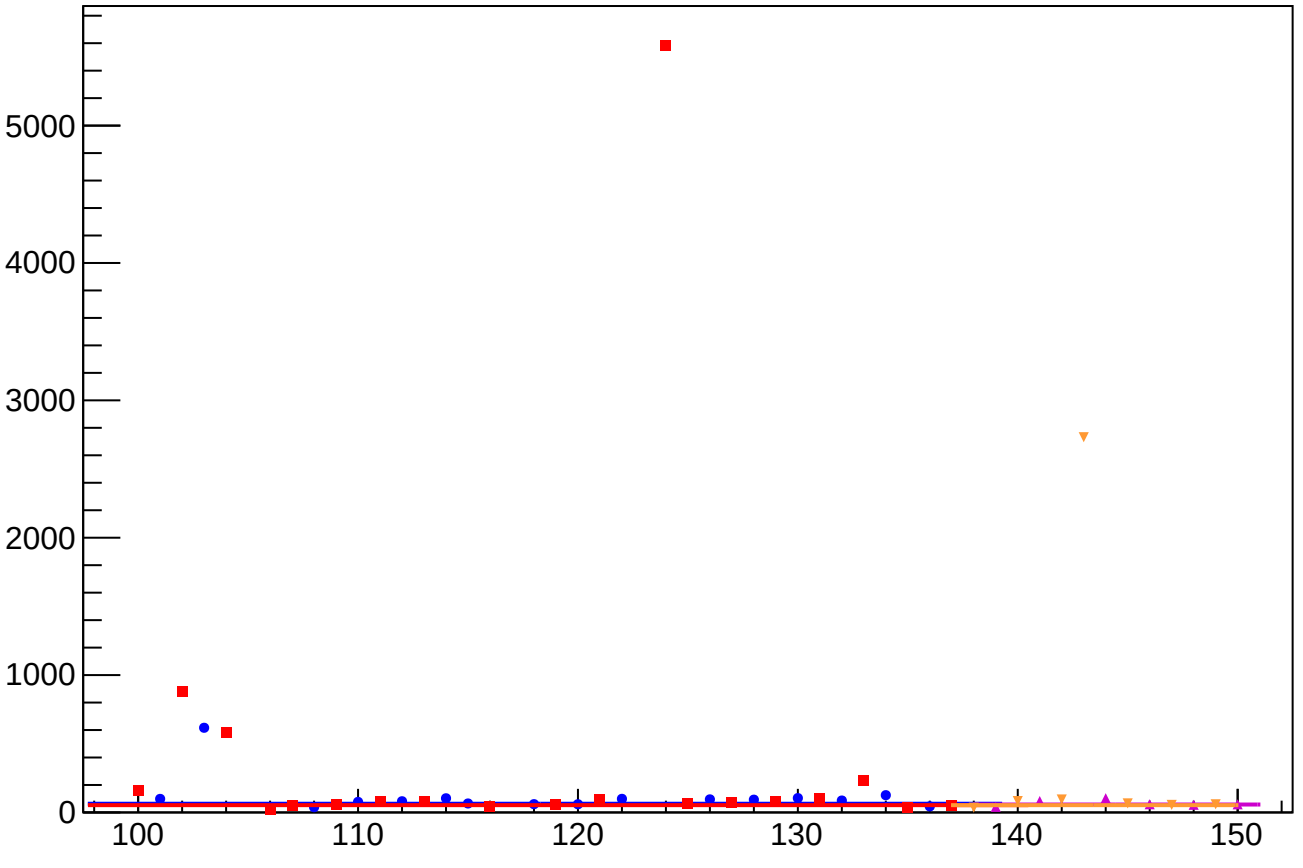
Left: -0.003+/-0.020 $\chi^2$/NDF: 13.8/12

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.009+/-0.019 $\chi^2$/NDF:16.7/21

Out: 0.031+/-0.019 $\chi^2$/NDF:23.1/25

All: 0.012+/-0.013 $\chi^2$/NDF: 42.0/47




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 53.126+/-0.020 $\chi^2$/NDF:2340082.9/6

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.731+/-0.020 $\chi^2$/NDF:728386.6/5

Left: 55.426+/-0.014 $\chi^2$/NDF: 3095782.5/12

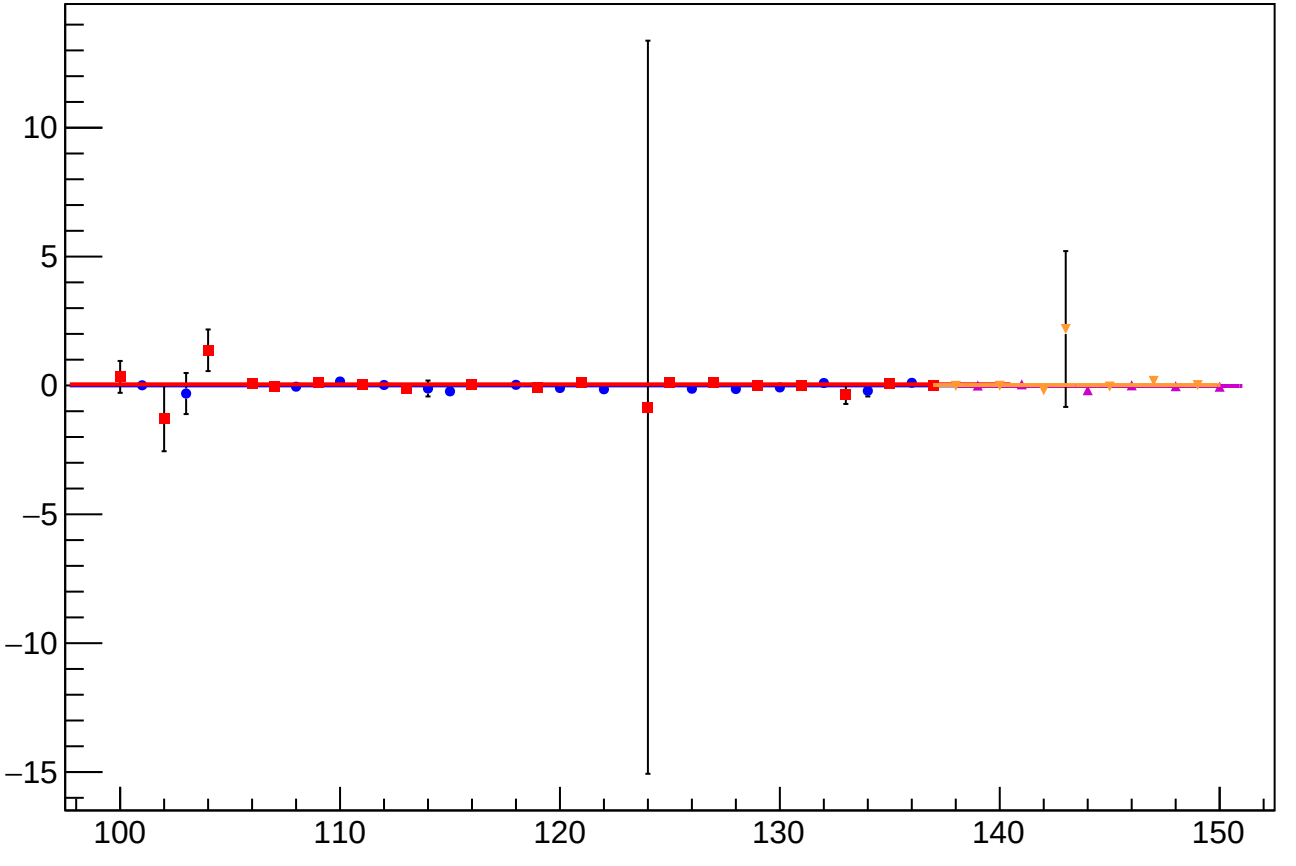
Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 60.662+/-0.014 $\chi^2$/NDF:3216786.5/21

Out: 53.171+/-0.013 $\chi^2$/NDF:6285871.8/25

All: 56.732+/-0.009 $\chi^2$/NDF: 9657936.2/47

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.016+/-0.028 $\chi^2$/NDF:9.9/6

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.021+/-0.028 $\chi^2$/NDF:3.1/5

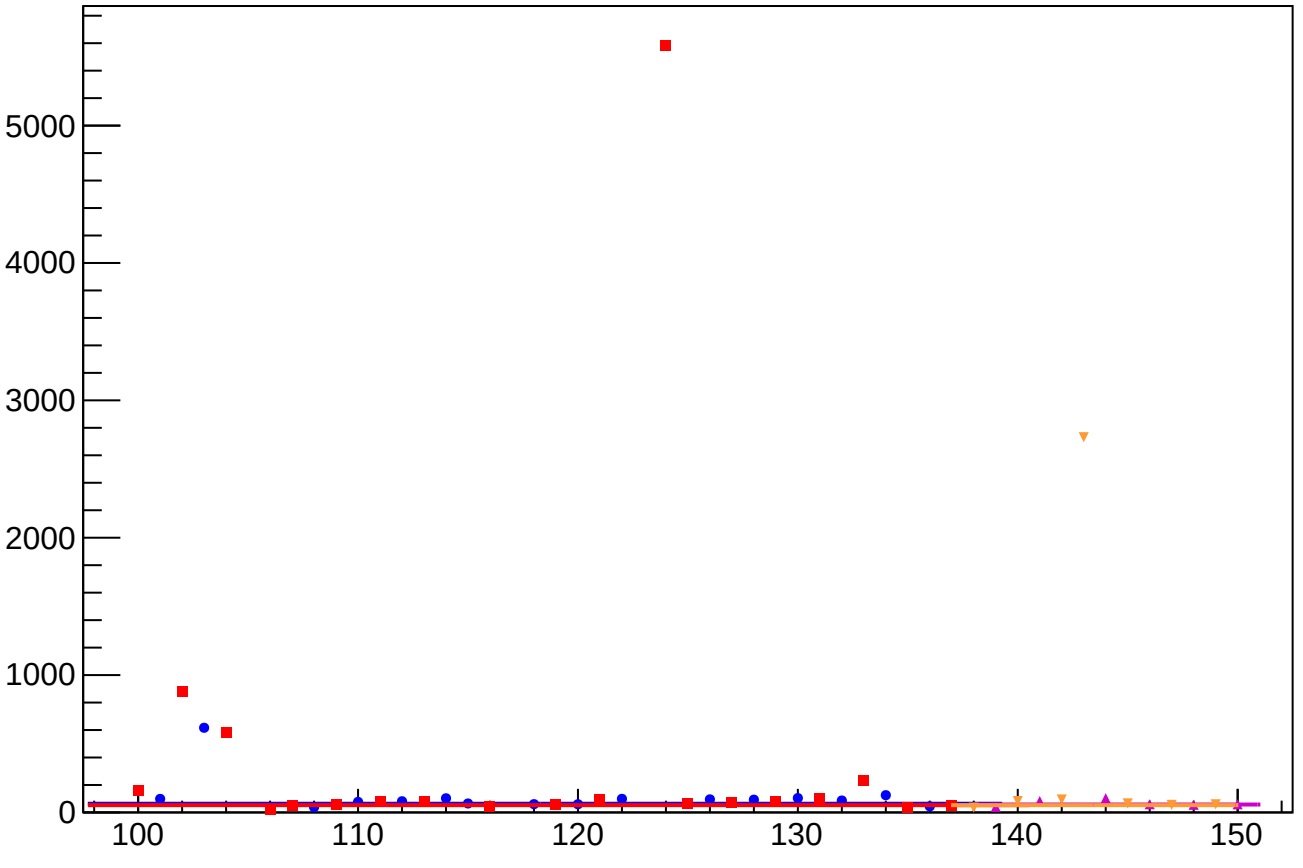
Left: -0.003+/-0.020 $\chi^2$/NDF: 13.8/12

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.009+/-0.019 $\chi^2$/NDF:16.7/21

Out: 0.031+/-0.019 $\chi^2$/NDF:23.1/25

All: 0.012+/-0.013 $\chi^2$/NDF: 42.0/47




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 53.126+/-0.020 $\chi^2$/NDF:2340082.9/6

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.731+/-0.020 $\chi^2$/NDF:728386.6/5

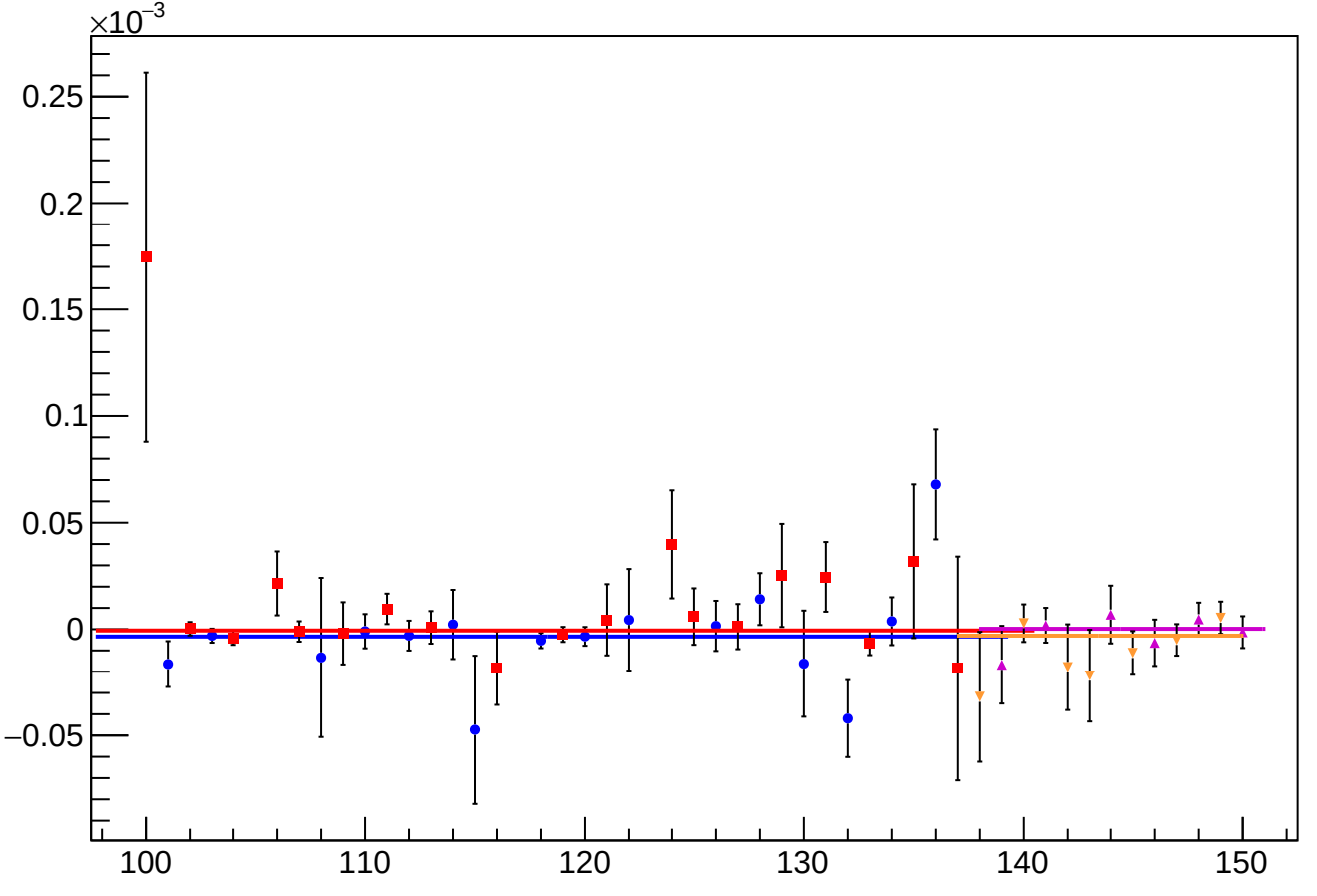
Left: 55.426+/-0.014 $\chi^2$/NDF: 3095782.5/12

Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 60.662+/-0.014 $\chi^2$/NDF:3216786.5/21

Out: 53.171+/-0.013 $\chi^2$/NDF:6285871.8/25

All: 56.732+/-0.009 $\chi^2$/NDF: 9657936.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.9/5

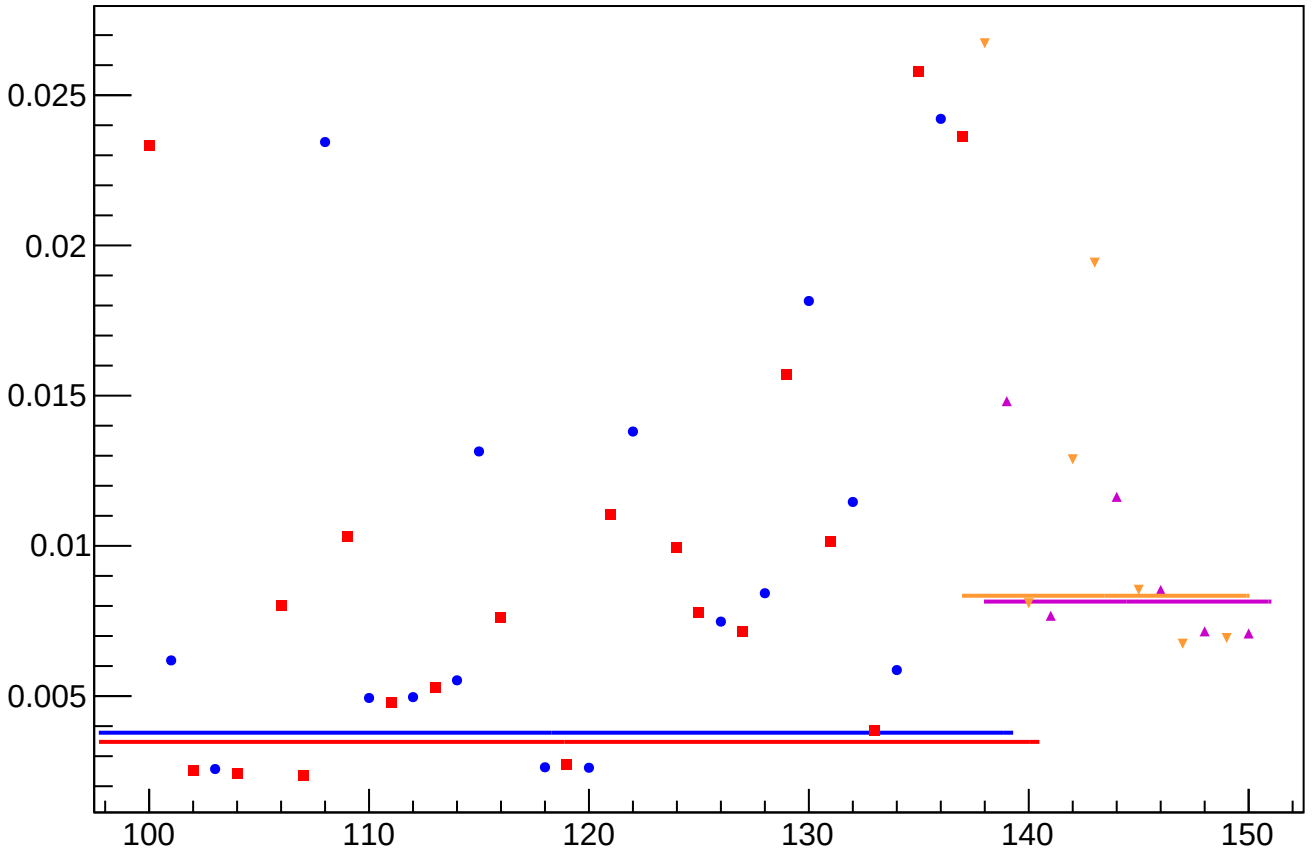
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.5/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 46.2/47




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4719536.5/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:1519901.2/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4495340.7/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:480214.6/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 2002562.5/12

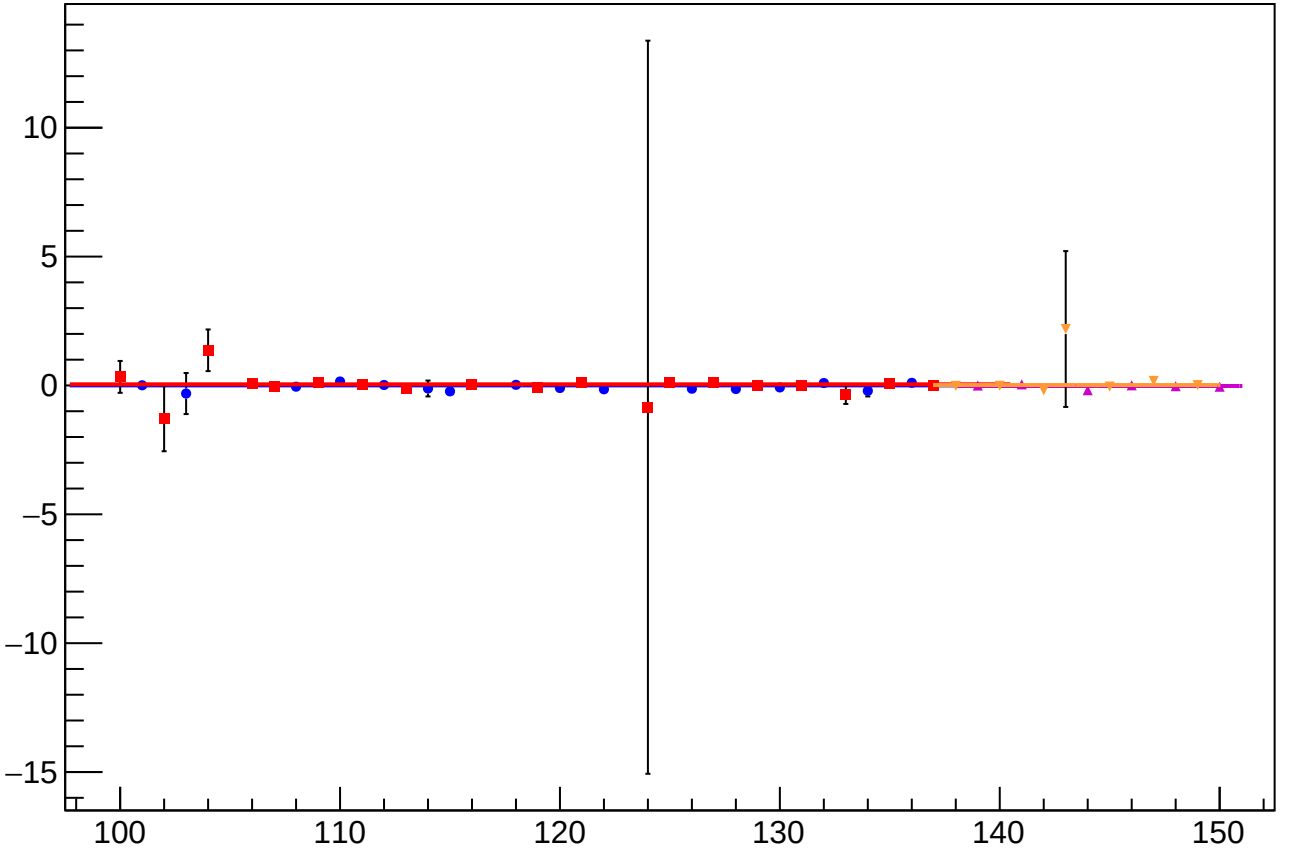
Right: 0.004+/-0.000 $\chi^2$/NDF: 9247440.2/34

In: 0.005+/-0.000 $\chi^2$/NDF:7260163.3/21

Out: 0.004+/-0.000 $\chi^2$/NDF:8624266.0/25

All: 0.004+/-0.000 $\chi^2$/NDF: 15969570.9/47

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.016+/-0.028 $\chi^2$/NDF:9.9/6

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.021+/-0.028 $\chi^2$/NDF:3.1/5

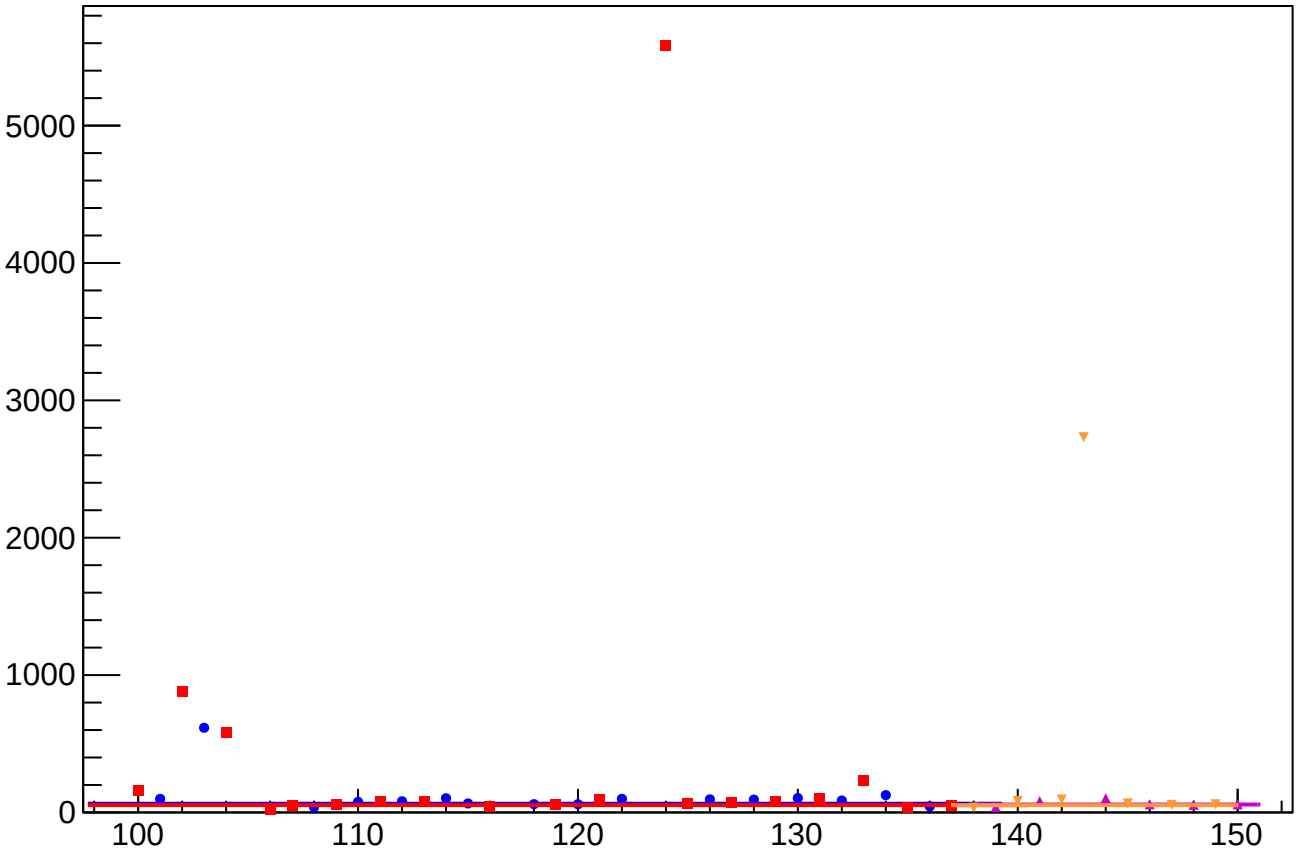
Left: -0.003+/-0.020 $\chi^2$/NDF: 13.8/12

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.008+/-0.019 $\chi^2$/NDF:16.7/21

Out: 0.031+/-0.019 $\chi^2$/NDF:23.1/25

All: 0.012+/-0.013 $\chi^2$/NDF: 42.0/47




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 53.123+/-0.020 $\chi^2$/NDF:2339980.4/6

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.735+/-0.020 $\chi^2$/NDF:728040.2/5

Left: 55.426+/-0.014 $\chi^2$/NDF: 3095400.9/12

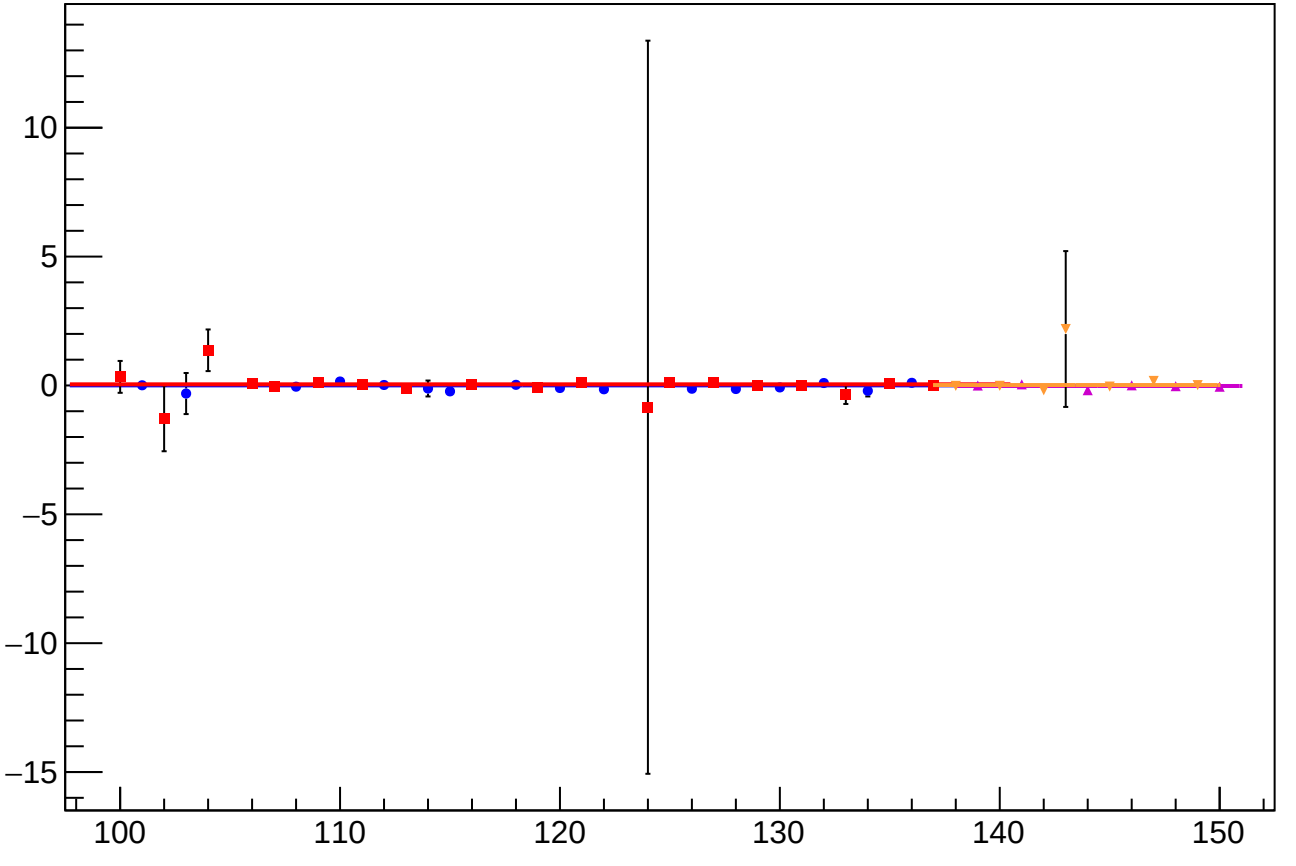
Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 60.668+/-0.014 $\chi^2$/NDF:3215622.2/21

Out: 53.167+/-0.013 $\chi^2$/NDF:6286318.1/25

All: 56.732+/-0.009 $\chi^2$/NDF: 9657623.7/47

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.016+/-0.028 $\chi^2$/NDF:9.9/6

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.021+/-0.028 $\chi^2$/NDF:3.1/5

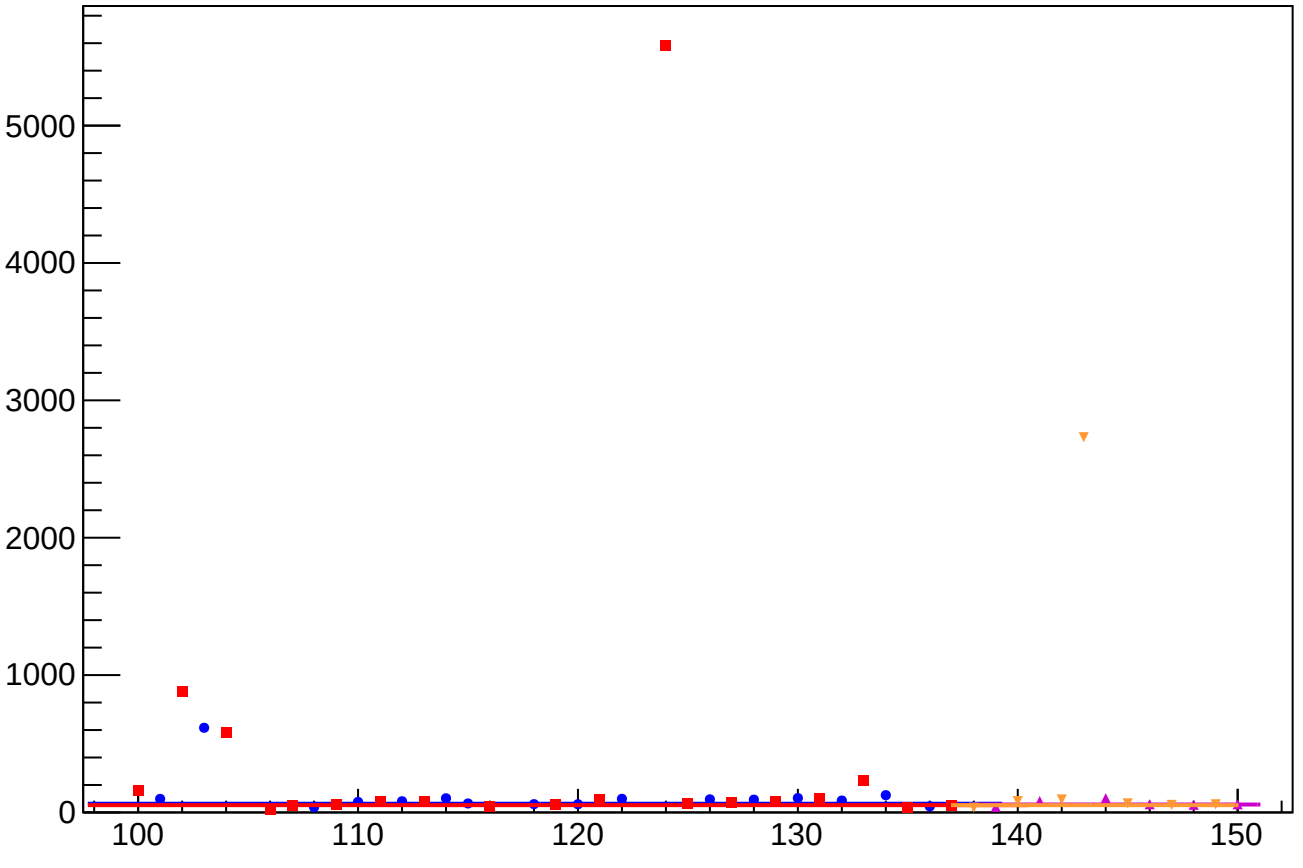
Left: -0.003+/-0.020 $\chi^2$/NDF: 13.8/12

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.008+/-0.019 $\chi^2$/NDF:16.7/21

Out: 0.031+/-0.019 $\chi^2$/NDF:23.1/25

All: 0.012+/-0.013 $\chi^2$/NDF: 42.0/47




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 53.123+/-0.020 $\chi^2$/NDF:2339980.4/6

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.735+/-0.020 $\chi^2$/NDF:728040.2/5

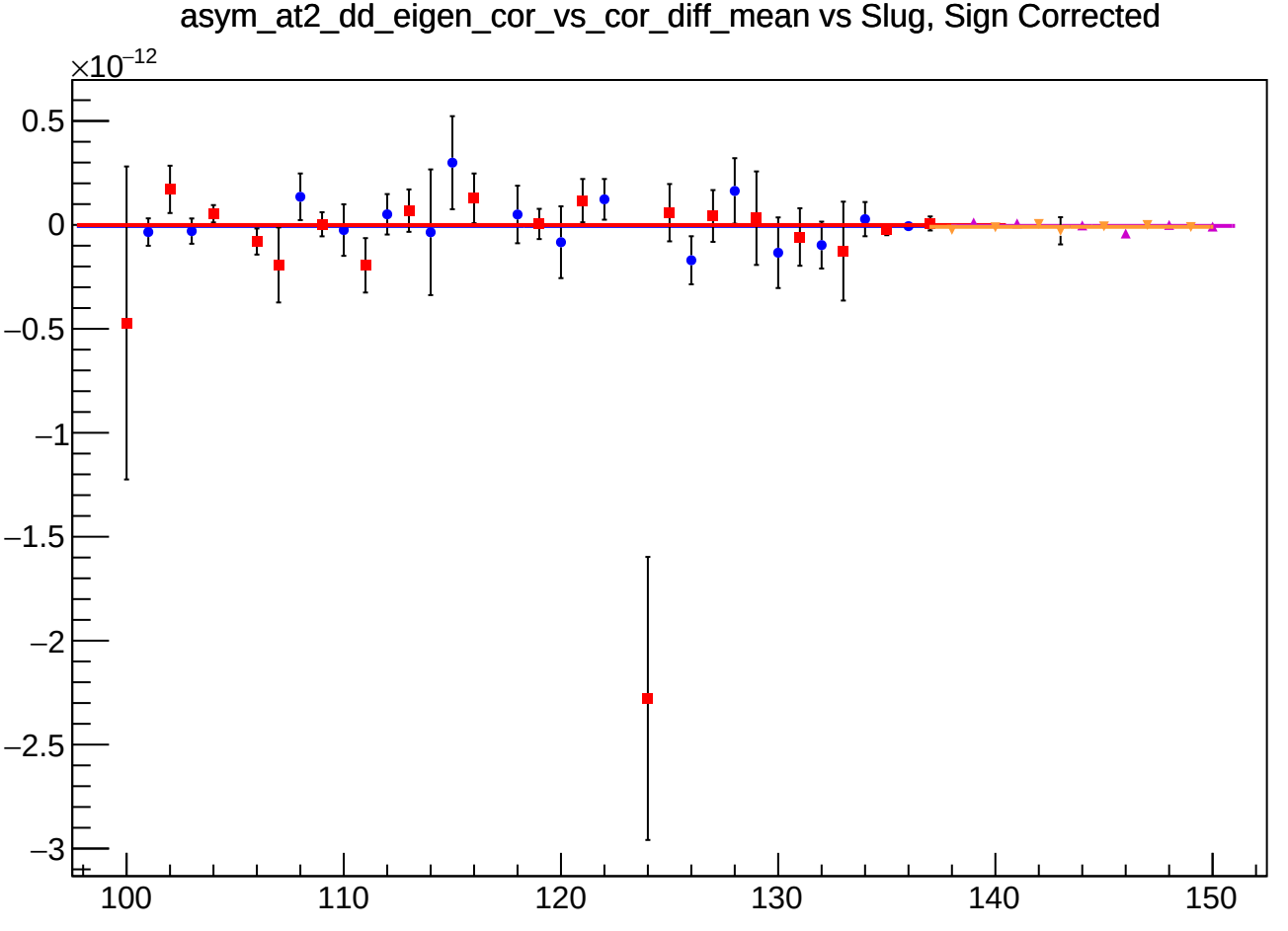
Left: 55.426+/-0.014 $\chi^2$/NDF: 3095400.9/12

Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 60.668+/-0.014 $\chi^2$/NDF:3215622.2/21

Out: 53.167+/-0.013 $\chi^2$/NDF:6286318.1/25

All: 56.732+/-0.009 $\chi^2$/NDF: 9657623.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.0/5

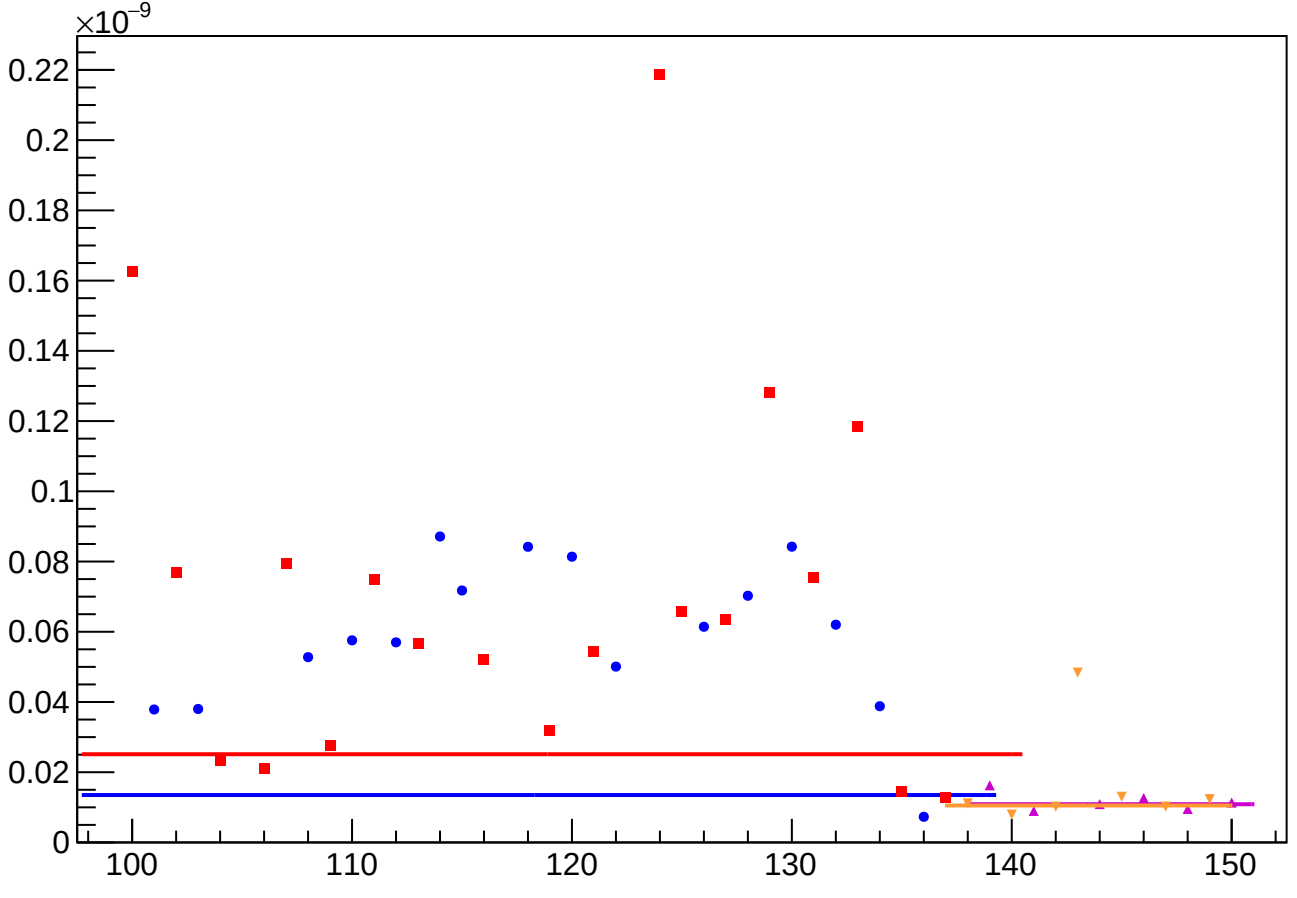
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:27.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 45.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4993378.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:869110.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3578472.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:215975.0/5

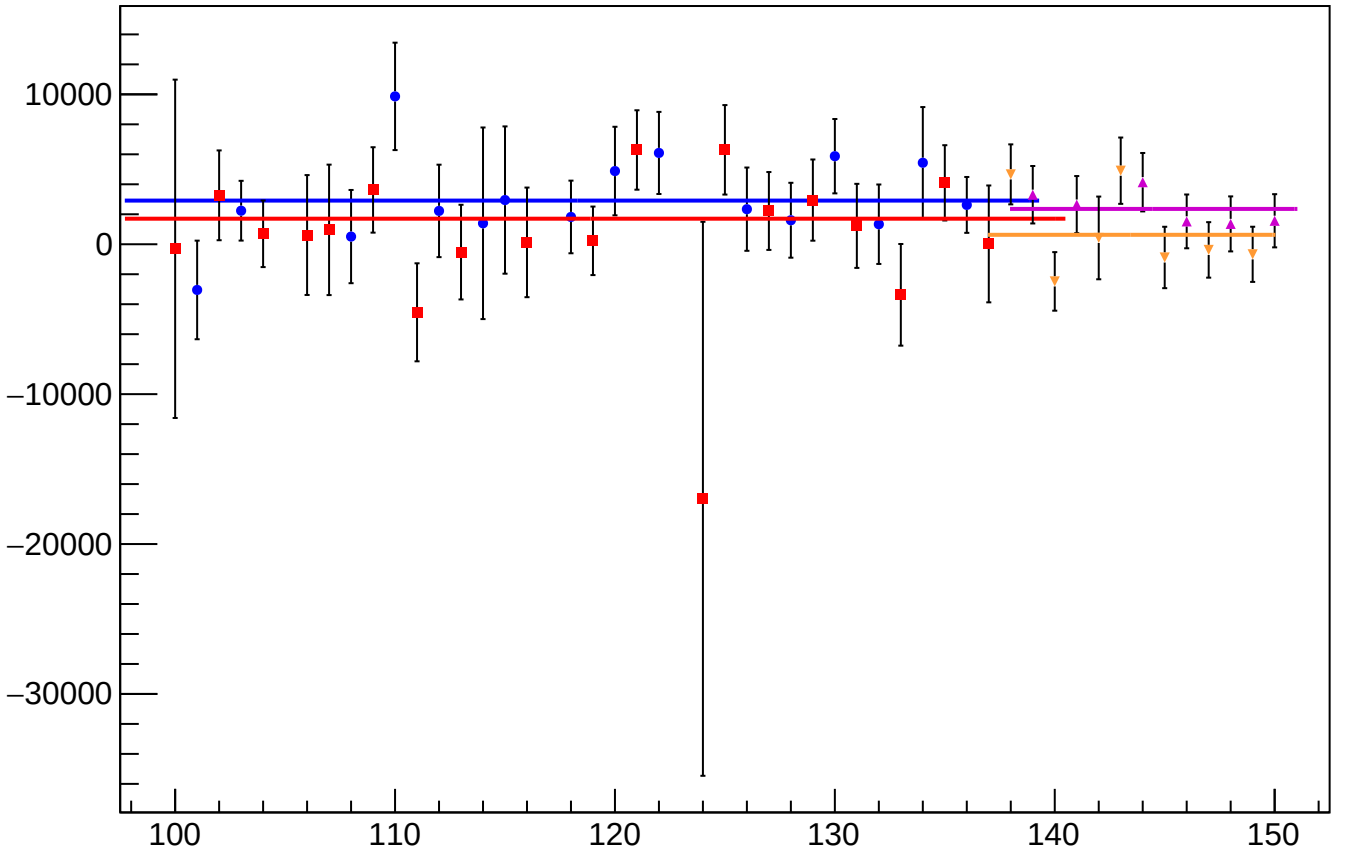
Left: 0.000+/-0.000 $\chi^2$/NDF: 1088739.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 9384983.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:5306478.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6080261.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11415633.2/47




Right In: 2912.991+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 629.811+/-773.145 $\chi^2$/NDF:11.7/6

Right Out: 1704.904+/-706.846 $\chi^2$/NDF: 15.8/18

Left In: 2357.193+/-758.852 $\chi^2$/NDF:1.8/5

Left: 1509.617+/-541.572 $\chi^2$/NDF: 16.0/12

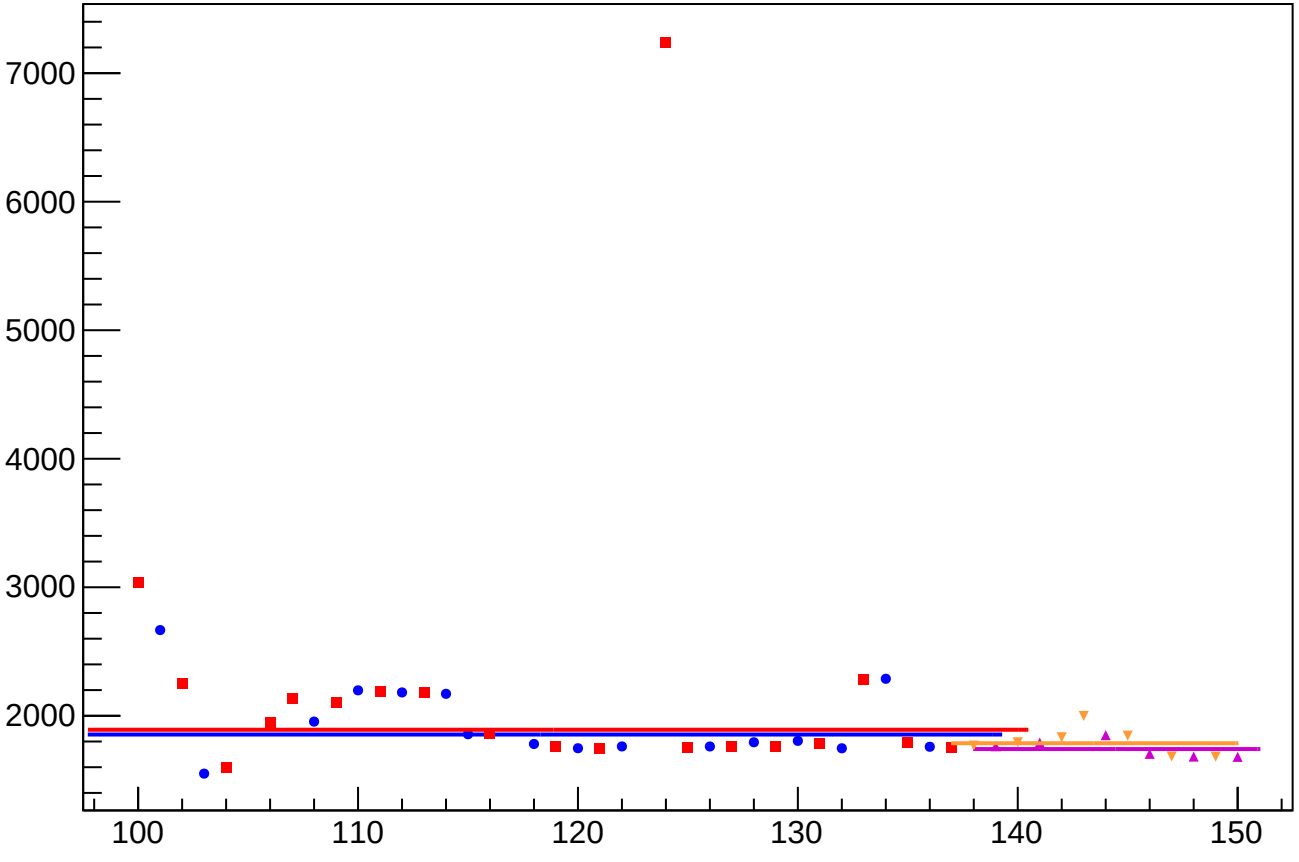
Right: 2319.102+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2659.431+/-512.554 $\chi^2$/NDF:14.6/21

Out: 1215.422+/-521.683 $\chi^2$/NDF:28.6/25

All: 1950.172+/-365.615 $\chi^2$/NDF: 47.0/47

# reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.7/15

Left Out: 1786.539+/-0.547 $\chi^2$/NDF:33351.9/6

Right Out: 1891.469+/-0.499 $\chi^2$/NDF: 364050.6/18

Left In: 1741.385+/-0.537 $\chi^2$/NDF:13029.7/5

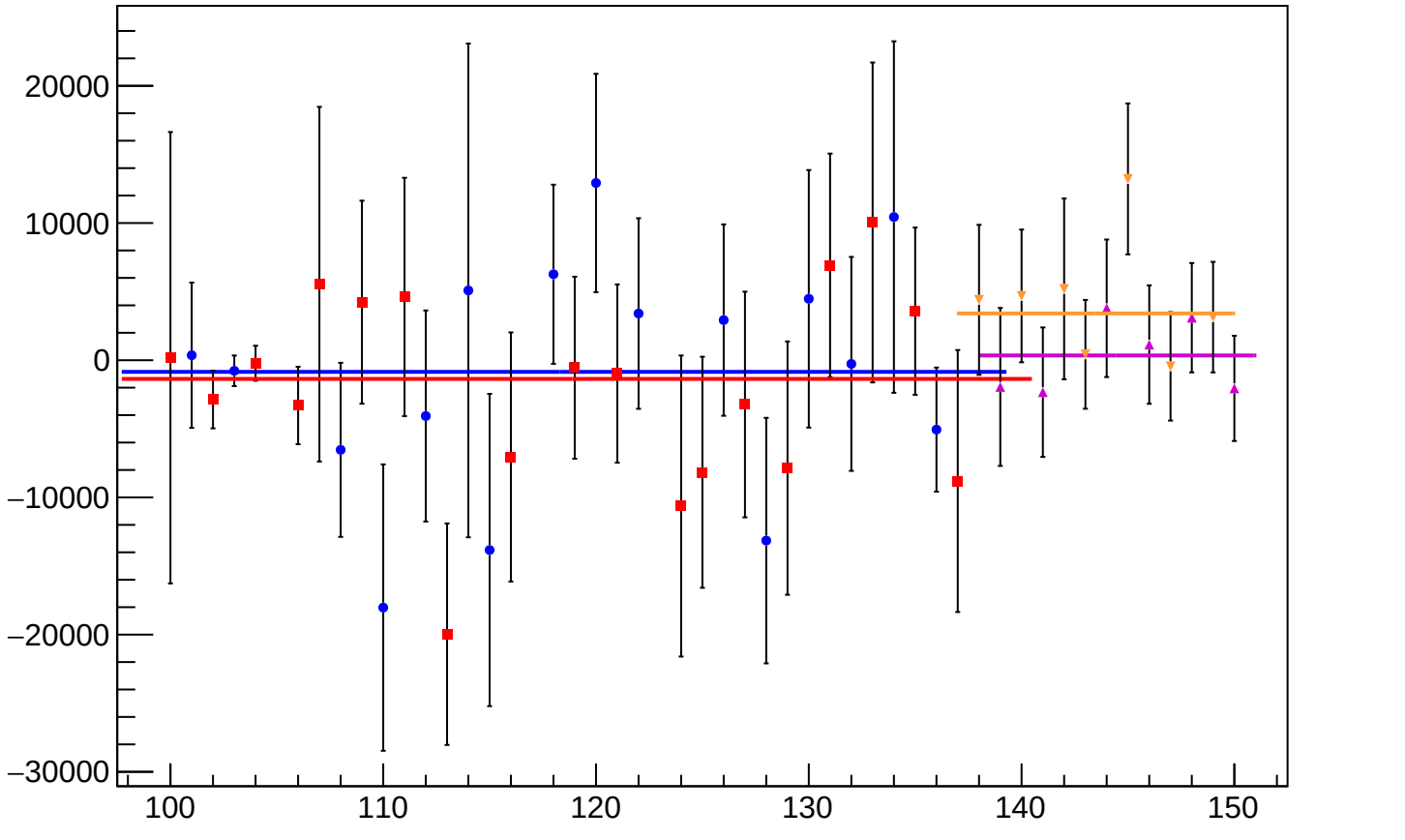
Left: 1763.541+/-0.383 $\chi^2$/NDF: 49856.1/12

Right: 1872.622+/-0.350 $\chi^2$/NDF: 630189.4/34

In: 1802.795+/-0.362 $\chi^2$/NDF:300437.8/21

Out: 1843.816+/-0.368 $\chi^2$/NDF:417511.3/25

All: 1822.969+/-0.258 $\chi^2$/NDF: 724249.4/47




Right In: -847.977+/-962.920 $\chi^2$/NDF: 13.9/15

Left Out: 3410.989+/-1763.510 $\chi^2$/NDF:4.9/6

Right Out: -1361.523+/-915.925 $\chi^2$/NDF: 14.0/18

Left In: 347.777+/-1827.113 $\chi^2$/NDF:1.9/5

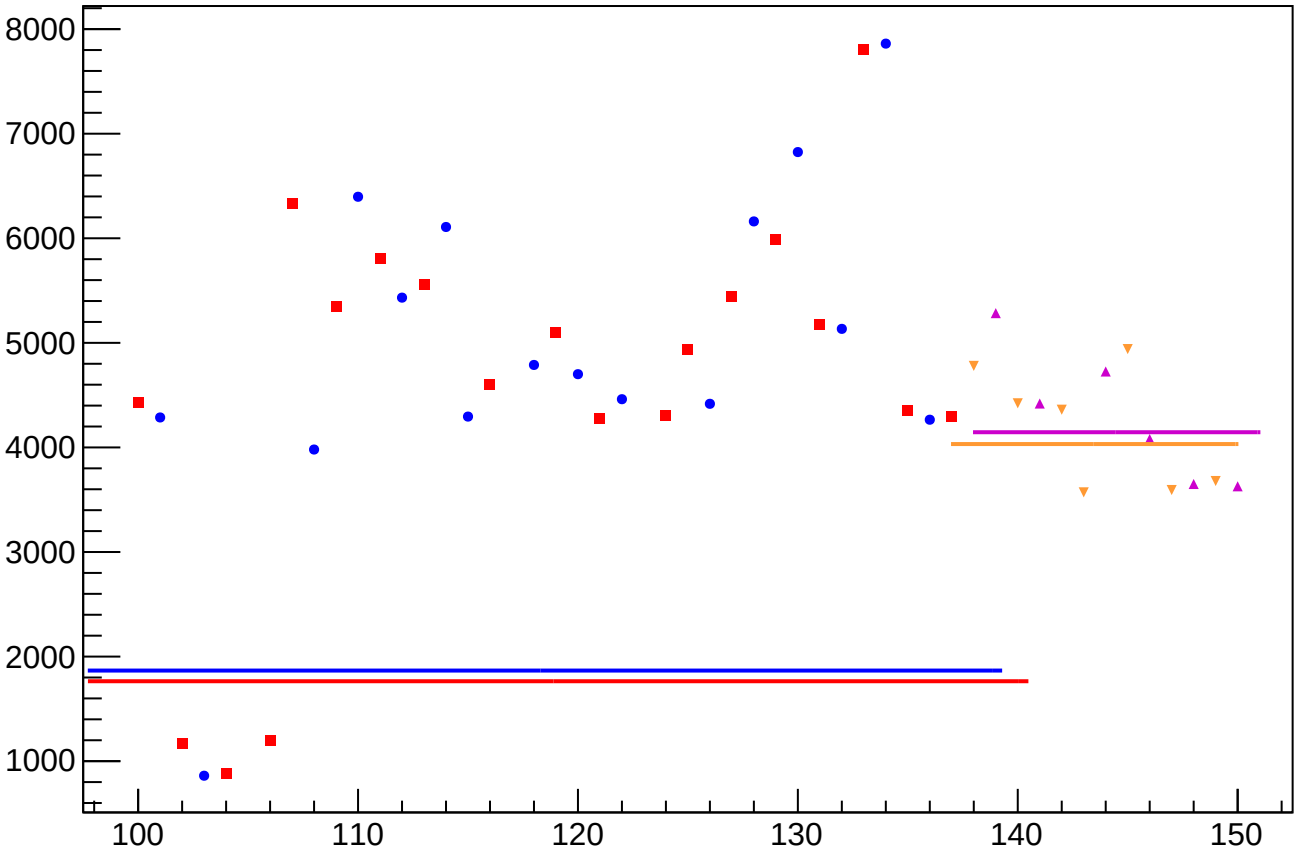
Left: 1933.627+/-1268.880 $\chi^2$/NDF: 8.2/12

Right: -1117.587+/-663.649 $\chi^2$/NDF: 28.0/34

In: -588.053+/-851.859 $\chi^2$/NDF:16.1/21

Out: -347.630+/-812.831 $\chi^2$/NDF:24.7/25

All: -462.208+/-588.072 $\chi^2$/NDF: 40.8/47




Right In: 1866.405+/-0.681 $\chi^2$/NDF: 6849638.3/15

Left Out: 4032.277+/-1.247 $\chi^2$/NDF:177131.4/6

Right Out: 1764.281+/-0.648 $\chi^2$/NDF: 6434807.7/18

Left In: 4145.428+/-1.292 $\chi^2$/NDF:179538.8/5

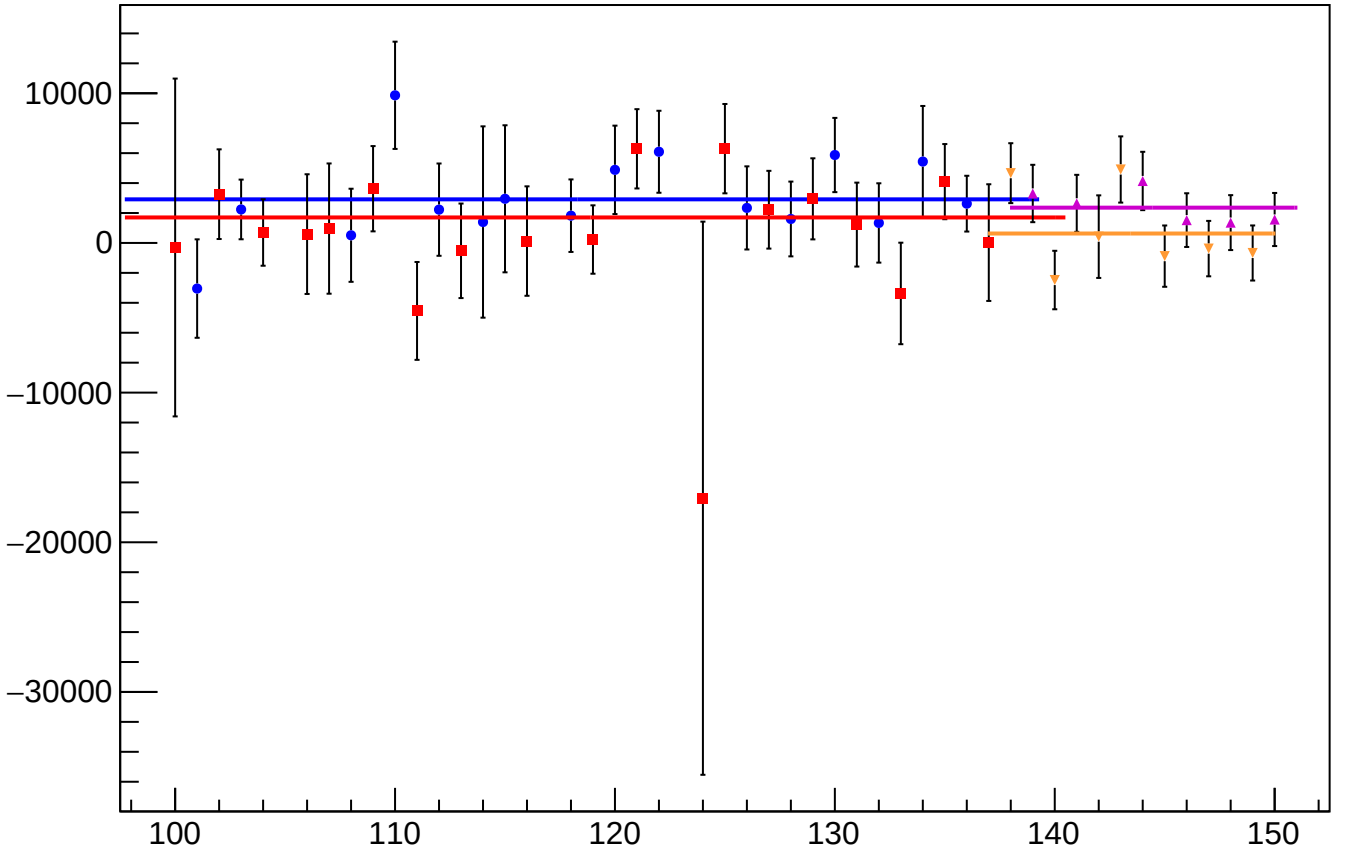
Left: 4086.849+/-0.897 $\chi^2$/NDF: 360641.3/12

Right: 1812.790+/-0.469 $\chi^2$/NDF: 13296256.2/34

In: 2361.801+/-0.602 $\chi^2$/NDF:9464472.0/21

Out: 2246.104+/-0.575 $\chi^2$/NDF:9217131.5/25

All: 2301.242+/-0.416 $\chi^2$/NDF: 18700914.4/4




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 629.696+/-773.145 $\chi^2$/NDF:11.7/6

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 2357.397+/-758.852 $\chi^2$/NDF:1.8/5

Left: 1509.664+/-541.572 $\chi^2$/NDF: 16.0/12

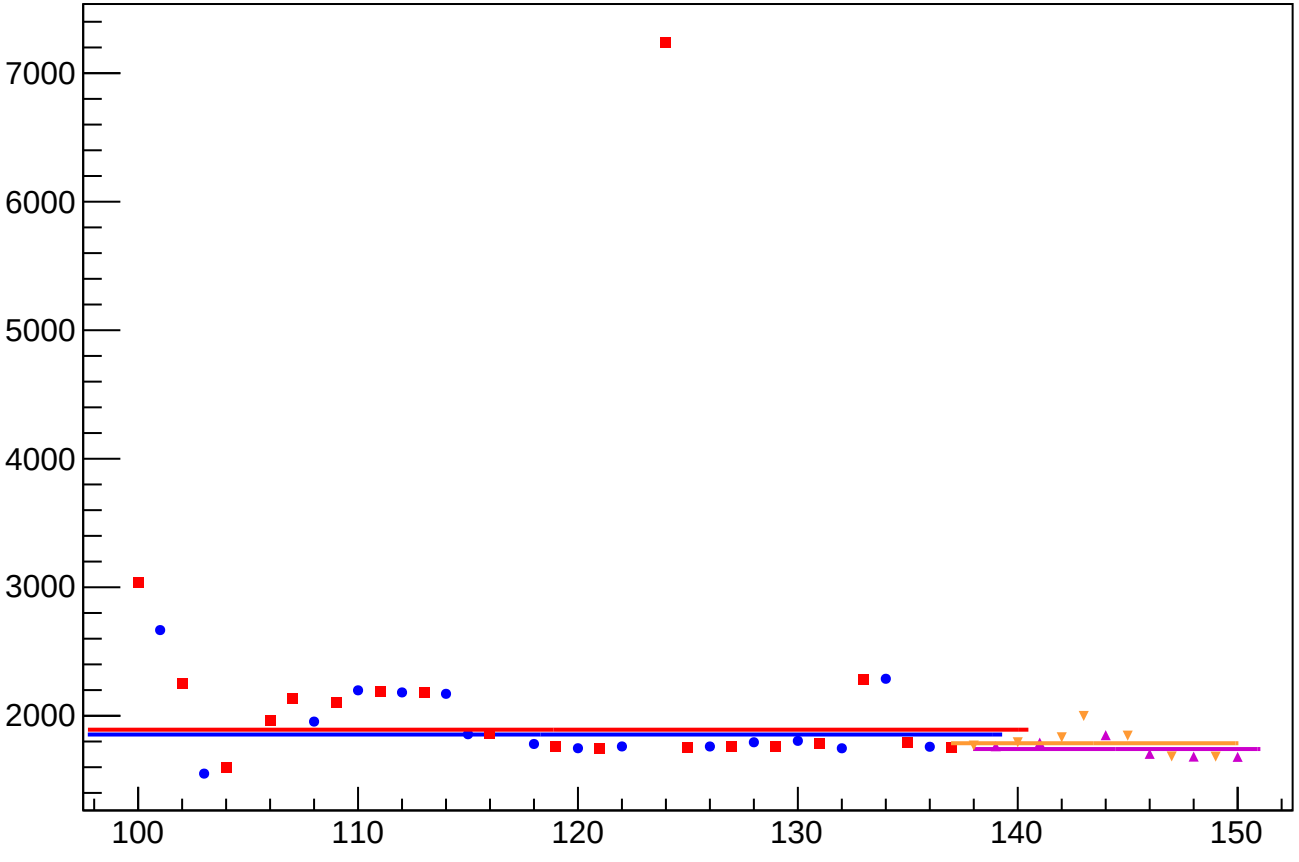
Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2659.578+/-512.554 $\chi^2$/NDF:14.6/21

Out: 1214.617+/-521.683 $\chi^2$/NDF:28.6/25

All: 1949.852+/-365.615 $\chi^2$/NDF: 47.0/47

# cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1786.539+/-0.547 $\chi^2$/NDF:33351.9/6

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1741.385+/-0.537 $\chi^2$/NDF:13029.7/5

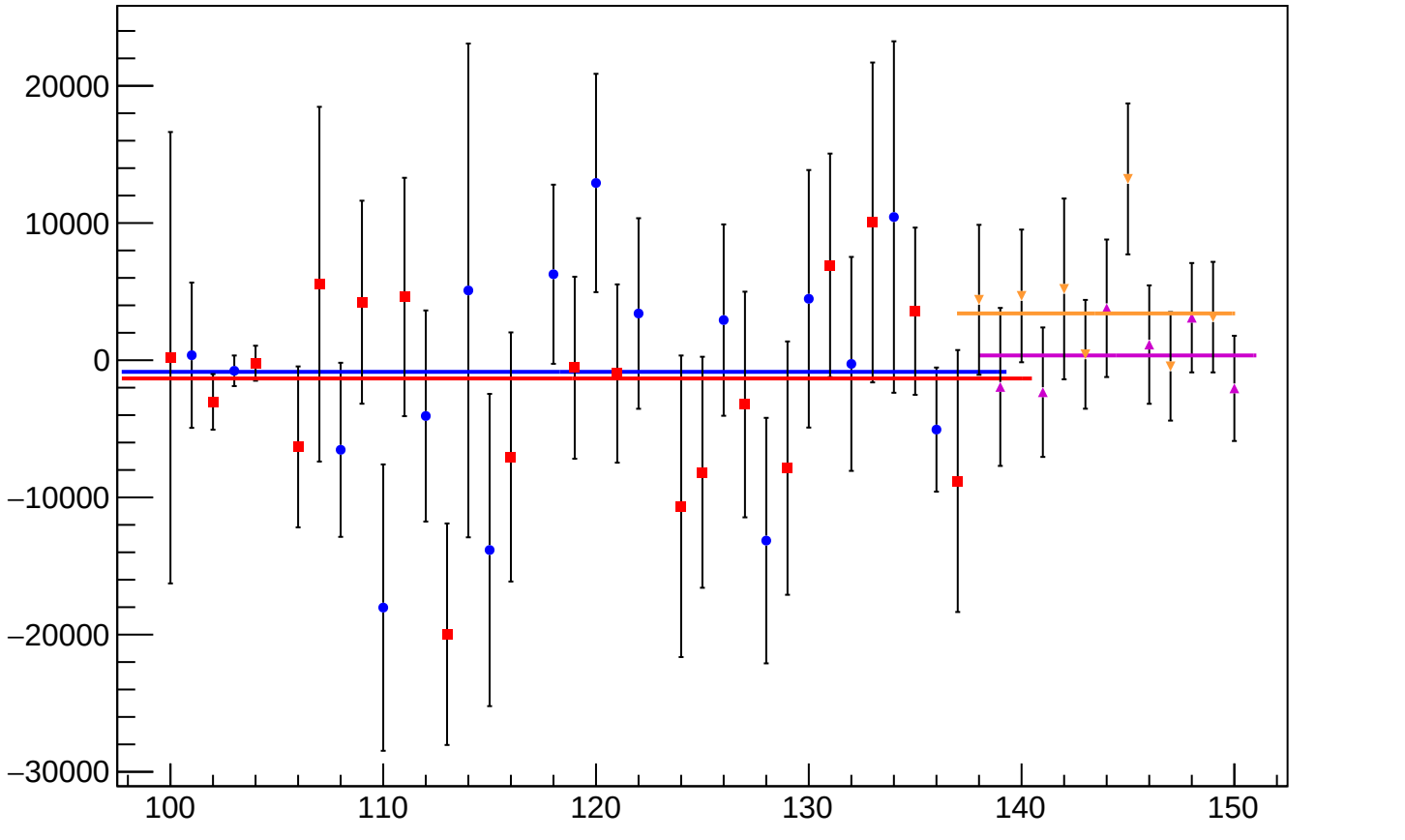
Left: 1763.541+/-0.383 $\chi^2$/NDF: 49856.1/12

Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1802.795+/-0.362 $\chi^2$/NDF:300437.6/21

Out: 1844.054+/-0.368 $\chi^2$/NDF:417924.7/25

All: 1823.084+/-0.258 $\chi^2$/NDF: 724735.3/47




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 3410.877+/-1763.505 $\chi^2$/NDF:4.9/6

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: 347.962+/-1827.111 $\chi^2$/NDF:1.9/5

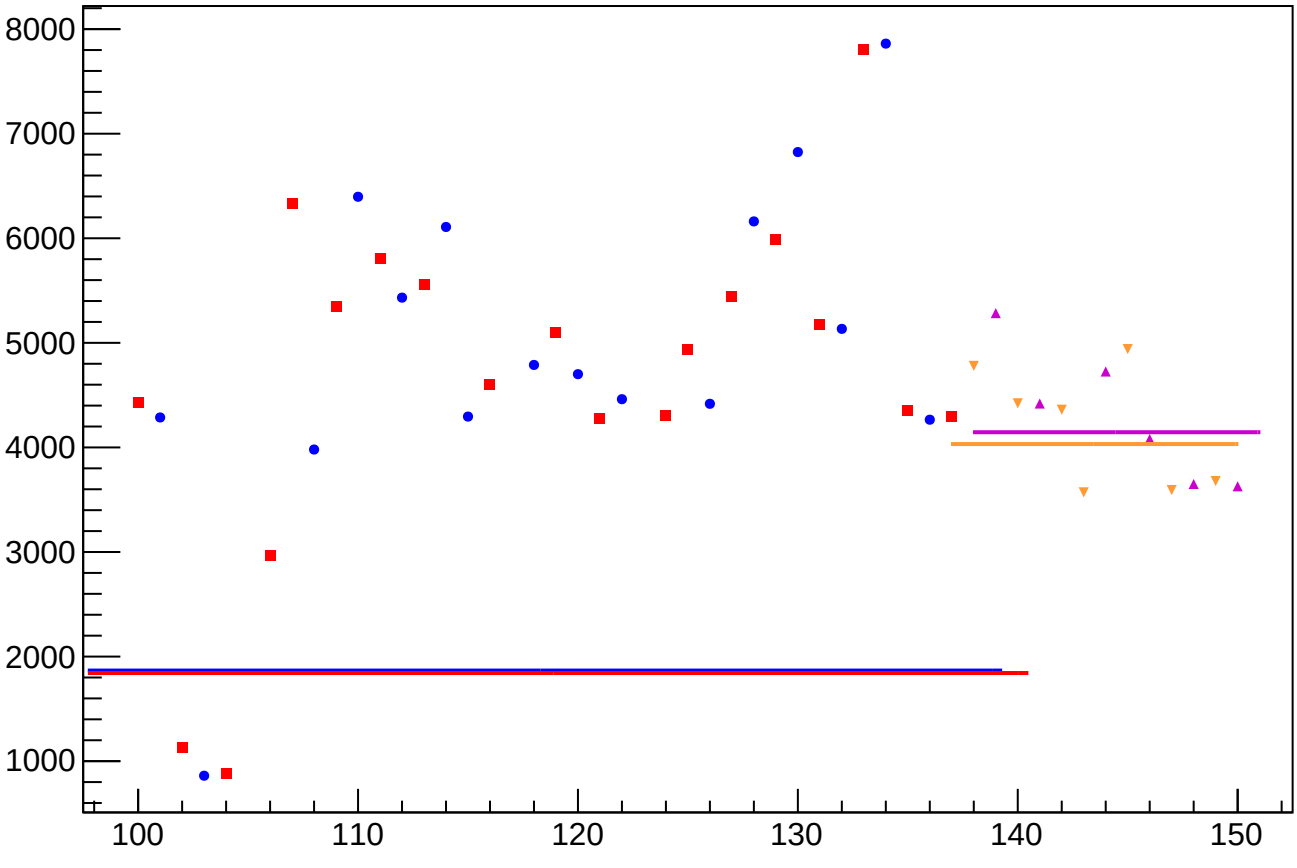
Left: 1933.660+/-1268.877 $\chi^2$/NDF: 8.2/12

Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -587.664+/-851.822 $\chi^2$/NDF:16.1/21

Out: -267.919+/-835.110 $\chi^2$/NDF:24.9/25

All: -424.624+/-596.333 $\chi^2$/NDF: 41.0/47




Right In: 1866.251+/-0.681 $\chi^2$/NDF: 6850061.4/15

Left Out: 4032.266+/-1.247 $\chi^2$/NDF:177133.1/6

Right Out: 1842.882+/-0.670 $\chi^2$/NDF: 6458456.4/18

Left In: 4145.422+/-1.292 $\chi^2$/NDF:179539.4/5

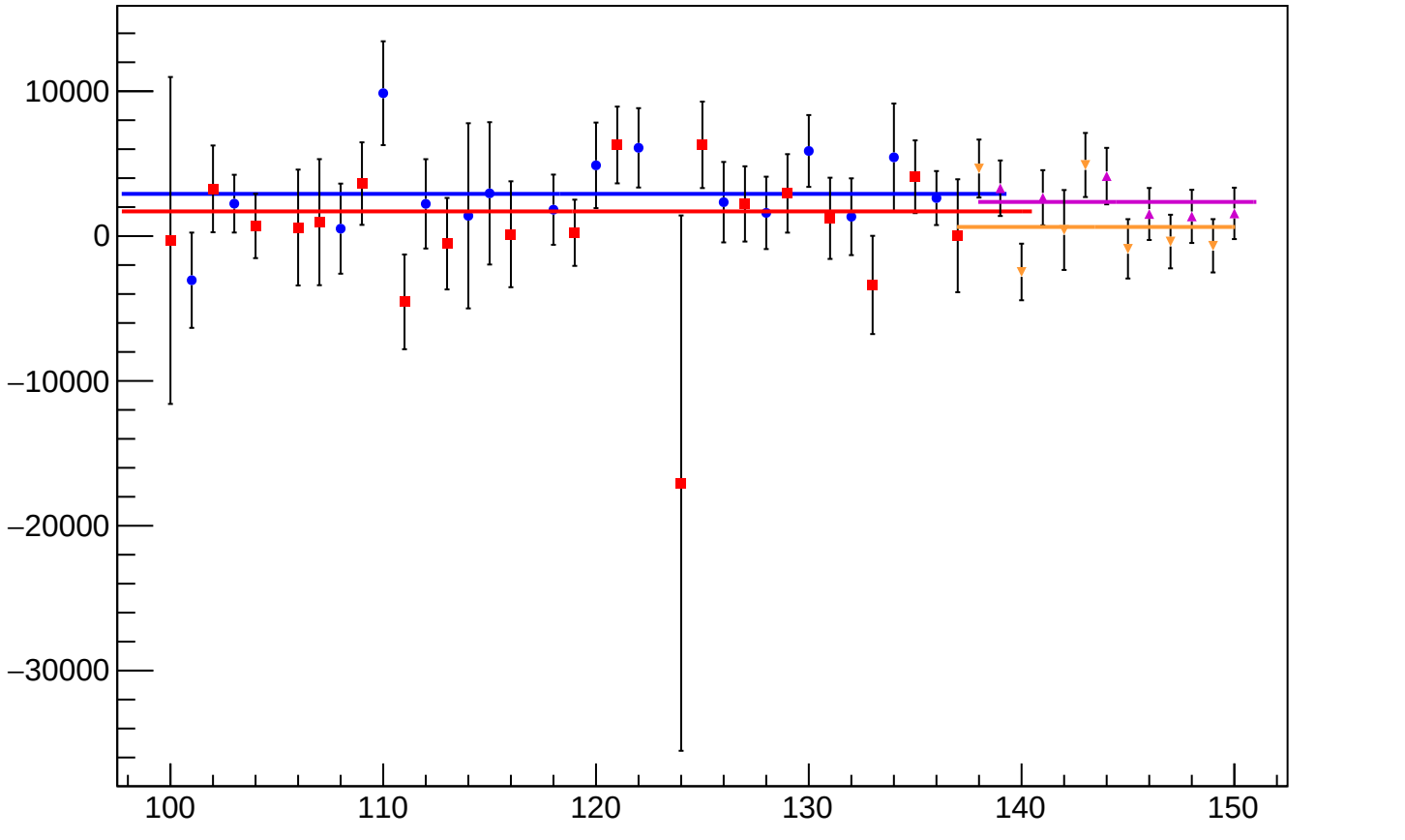
Left: 4086.840+/-0.897 $\chi^2$/NDF: 360643.9/12

Right: 1854.387+/-0.478 $\chi^2$/NDF: 13309116.0/34

In: 2361.638+/-0.602 $\chi^2$/NDF:9465275.1/21

Out: 2333.853+/-0.591 $\chi^2$/NDF:9026931.5/25

All: 2347.470+/-0.422 $\chi^2$/NDF: 18493291.6/4




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 629.696+/-773.145 $\chi^2$/NDF:11.7/6

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 2357.397+/-758.852 $\chi^2$/NDF:1.8/5

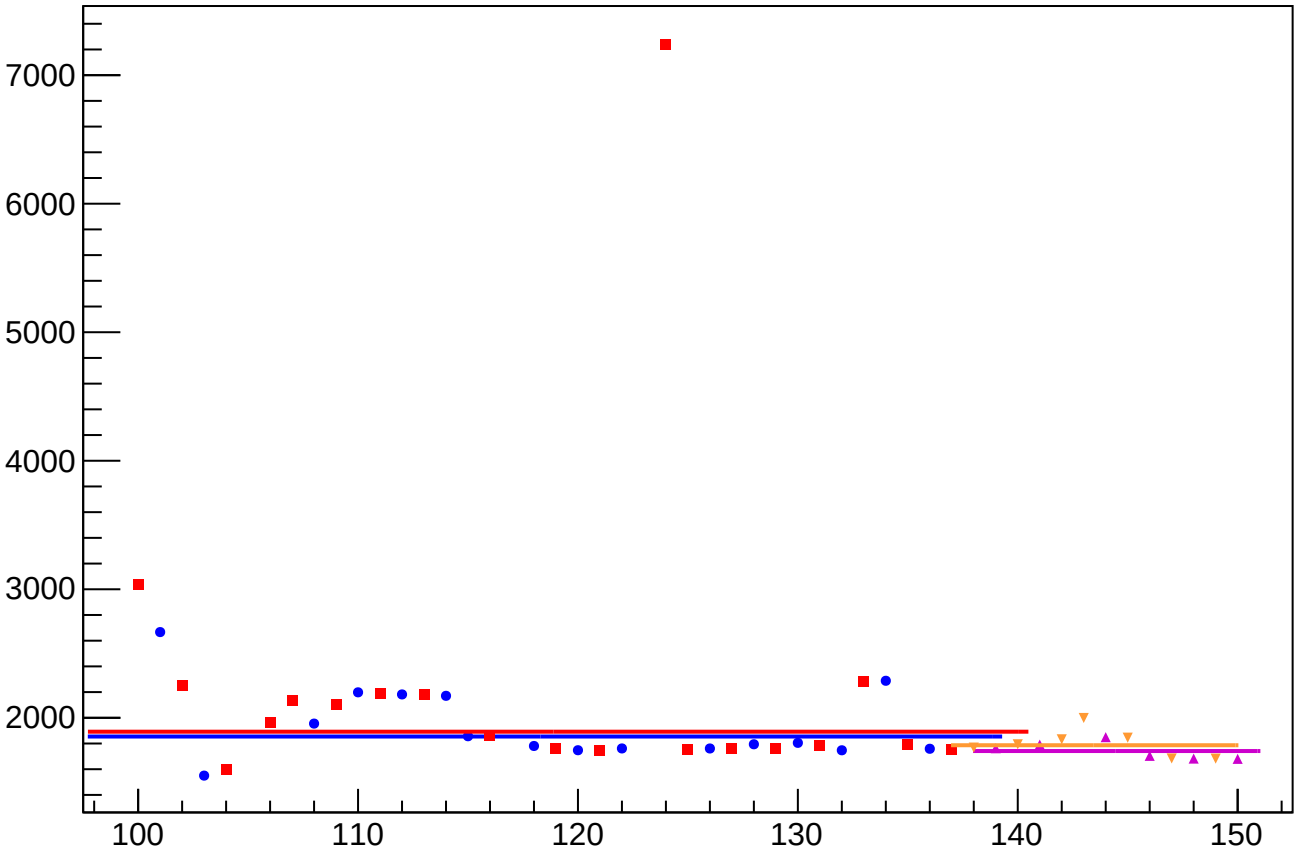
Left: 1509.664+/-541.572 $\chi^2$/NDF: 16.0/12

Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2659.578+/-512.554 $\chi^2$/NDF:14.6/21

Out: 1214.617+/-521.683 $\chi^2$/NDF:28.6/25

All: 1949.852+/-365.615 $\chi^2$/NDF: 47.0/47




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1786.539+/-0.547 $\chi^2$/NDF:33351.9/6

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1741.385+/-0.537 $\chi^2$/NDF:13029.7/5

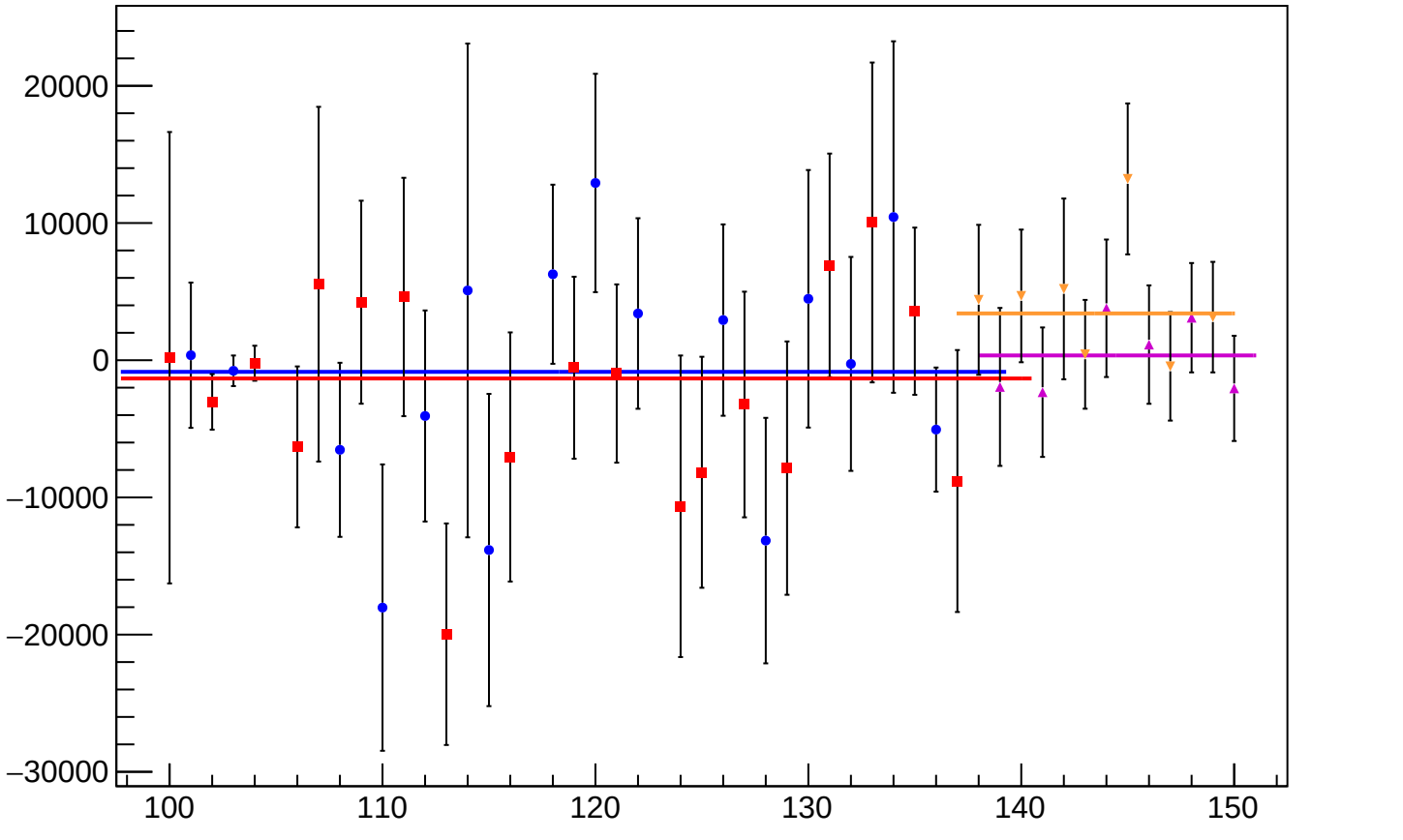
Left: 1763.541+/-0.383 $\chi^2$/NDF: 49856.1/12

Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1802.795+/-0.362 $\chi^2$/NDF:300437.6/21

Out: 1844.054+/-0.368 $\chi^2$/NDF:417924.7/25

All: 1823.084+/-0.258 $\chi^2$/NDF: 724735.3/47




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 3410.877+/-1763.505 $\chi^2$/NDF:4.9/6

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: 347.962+/-1827.111 $\chi^2$/NDF:1.9/5

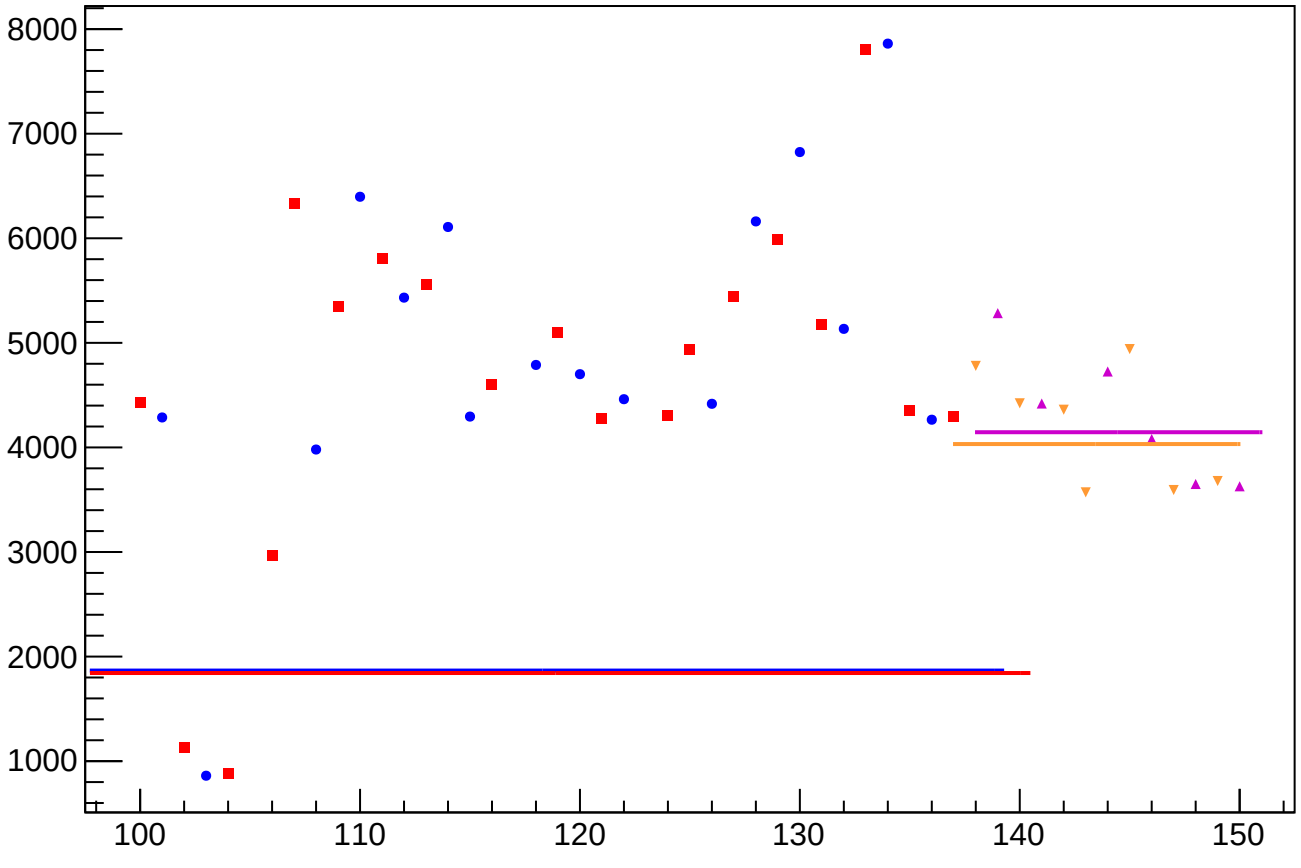
Left: 1933.660+/-1268.877 $\chi^2$/NDF: 8.2/12

Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -587.664+/-851.822 $\chi^2$/NDF:16.1/21

Out: -267.919+/-835.110 $\chi^2$/NDF:24.9/25

All: -424.624+/-596.333 $\chi^2$/NDF: 41.0/47




Right In: 1866.251+/-0.681 $\chi^2$/NDF: 6850061.4/15

Left Out: 4032.266+/-1.247 $\chi^2$/NDF:177133.1/6

Right Out: 1842.882+/-0.670 $\chi^2$/NDF: 6458456.4/18

Left In: 4145.422+/-1.292 $\chi^2$/NDF:179539.4/5

Left: 4086.840+/-0.897 $\chi^2$/NDF: 360643.9/12

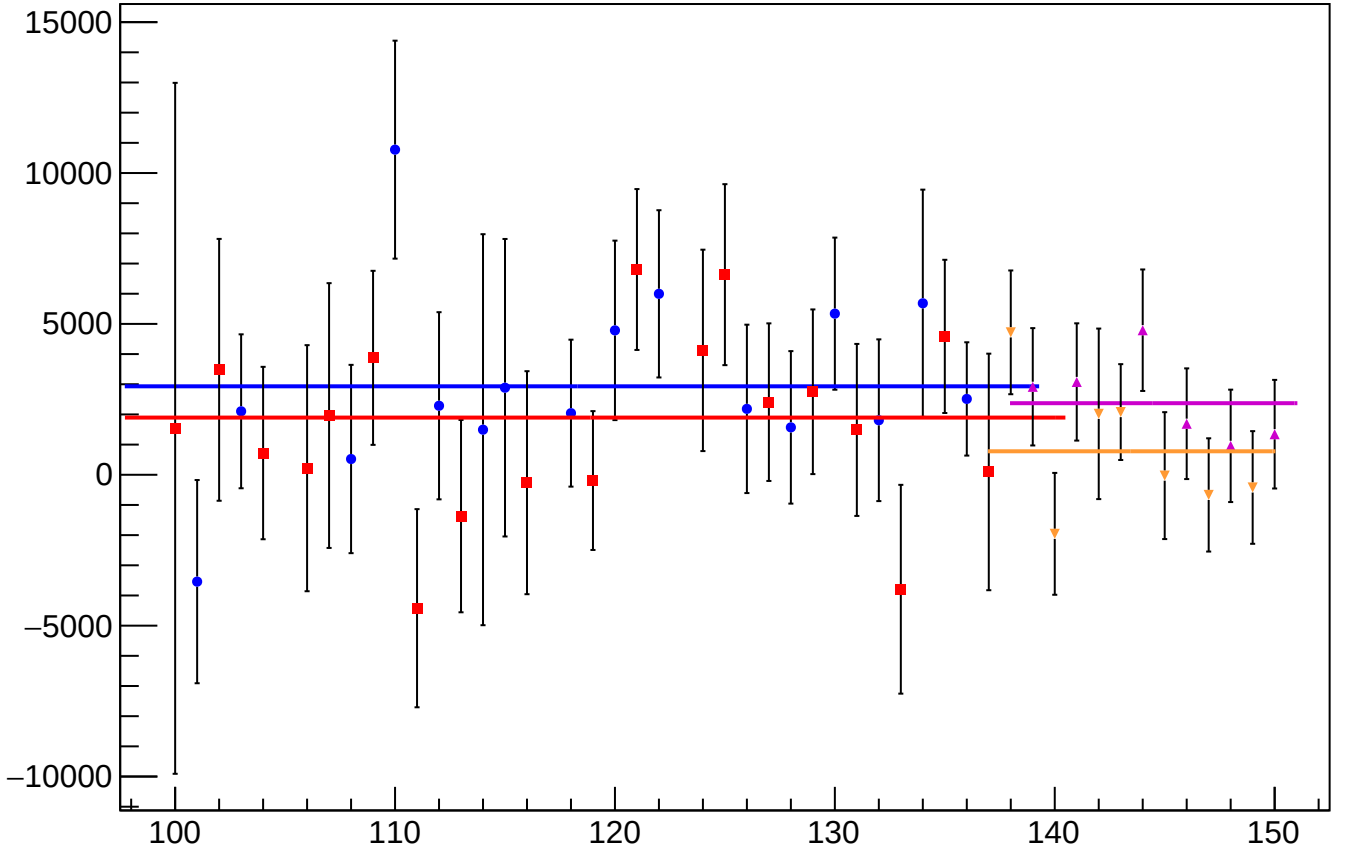
Right: 1854.387+/-0.478 $\chi^2$/NDF: 13309116.0/34

In: 2361.638+/-0.602 $\chi^2$/NDF:9465275.1/21

Out: 2333.853+/-0.591 $\chi^2$/NDF:9026931.5/25

All: 2347.470+/-0.422 $\chi^2$/NDF: 18493291.6/4

# dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected




Right In: 2931.691+/-718.305 $\chi^2$/NDF: 13.0/15

Left Out: 778.645+/-744.937 $\chi^2$/NDF:7.5/6

Right Out: 1895.503+/-721.954 $\chi^2$/NDF: 17.4/18

Left In: 2372.351+/-773.706 $\chi^2$/NDF:2.7/5

Left: 1545.318+/-536.632 $\chi^2$/NDF: 12.4/12

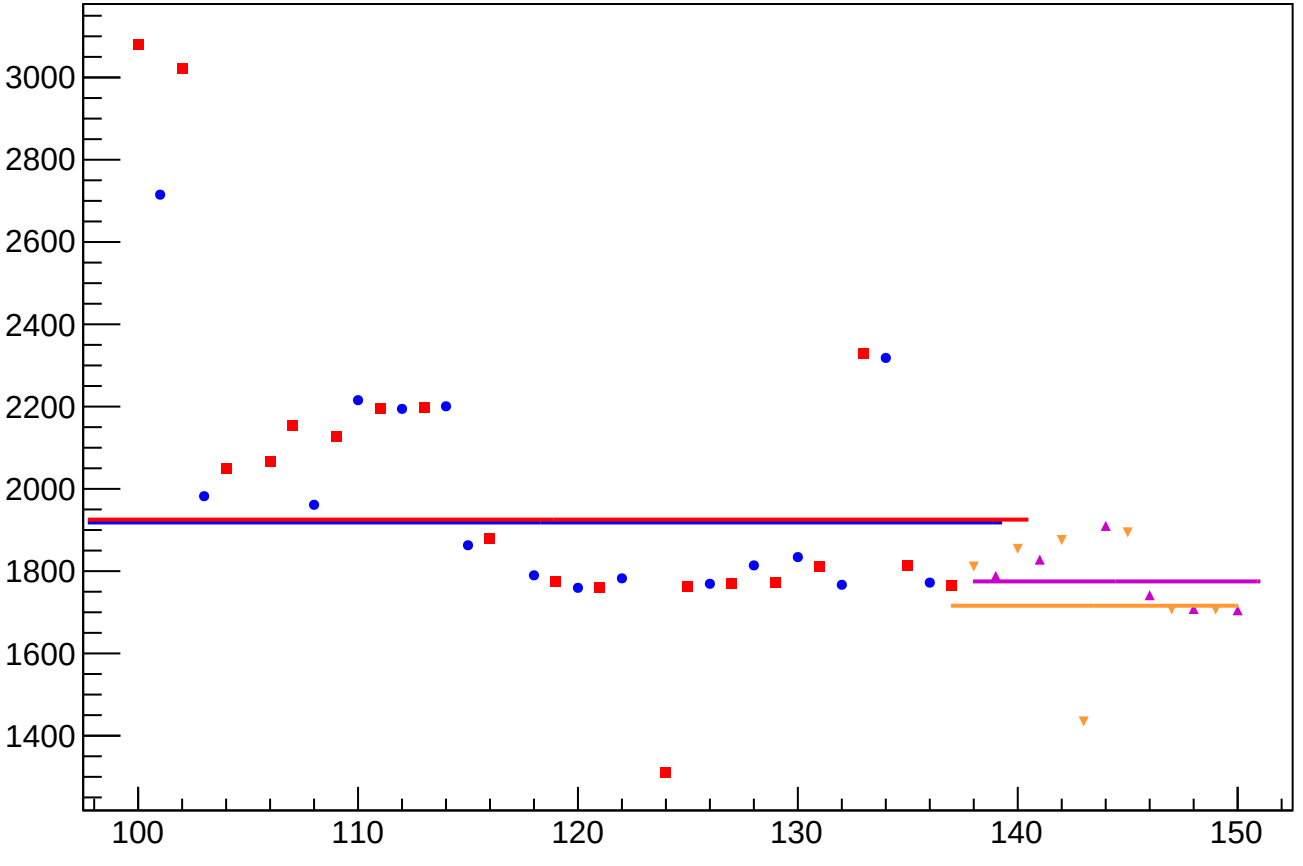
Right: 2416.221+/-509.204 $\chi^2$/NDF: 31.4/34

In: 2672.761+/-526.416 $\chi^2$/NDF:16.0/21

Out: 1354.569+/-518.433 $\chi^2$/NDF:26.1/25

All: 2003.595+/-369.378 $\chi^2$/NDF: 45.2/47

# dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1715.986+/-0.527 $\chi^2$/NDF:97318.4/6

Right Out: 1925.260+/-0.510 $\chi^2$/NDF: 339095.4/18

Left In: 1775.049+/-0.547 $\chi^2$/NDF:16862.9/5

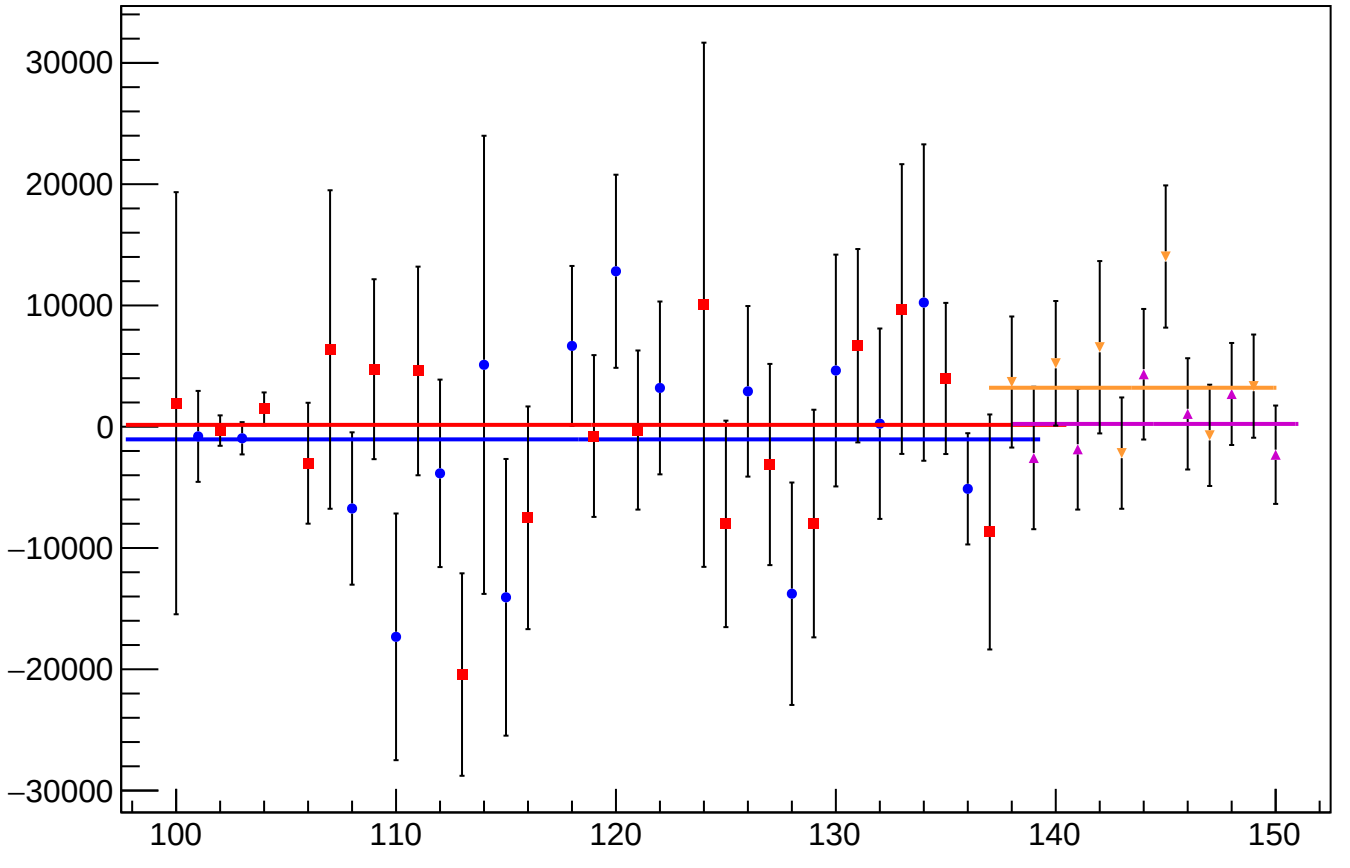
Left: 1744.399+/-0.379 $\chi^2$/NDF: 120229.4/12

Right: 1921.799+/-0.360 $\chi^2$/NDF: 554779.7/34

In: 1852.023+/-0.372 $\chi^2$/NDF:269312.5/21

Out: 1823.987+/-0.366 $\chi^2$/NDF:517871.4/25

All: 1837.785+/-0.261 $\chi^2$/NDF: 790064.9/47




Right In: -1041.908+/-1072.406 $\chi^2$/NDF: 13.8/15

Left Out: 3214.227+/-1886.279 $\chi^2$/NDF:6.1/6

Right Out: 153.619+/-835.656 $\chi^2$/NDF: 13.7/18

Left In: 231.733+/-1928.984 $\chi^2$/NDF:1.8/5

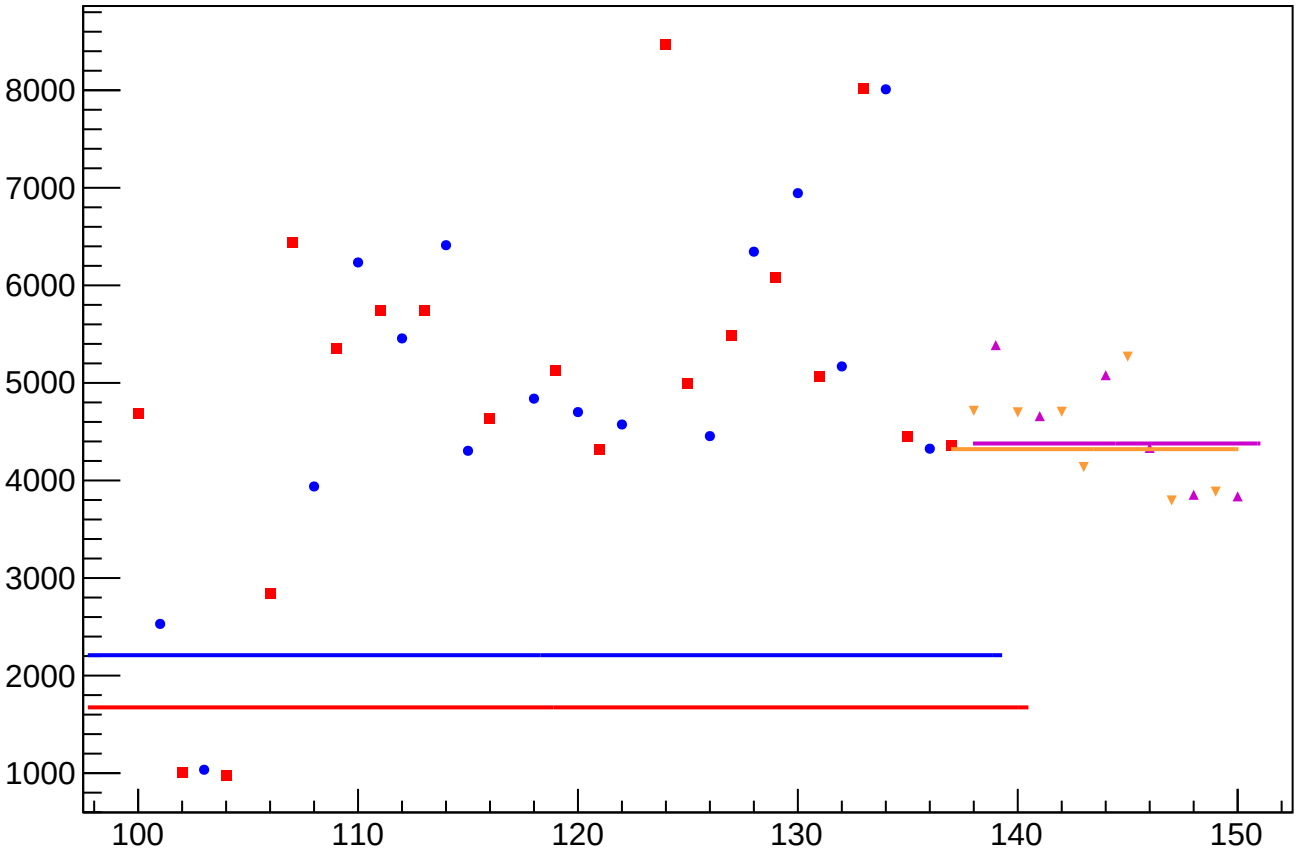
Left: 1756.360+/-1348.646 $\chi^2$/NDF: 9.0/12

Right: -298.053+/-659.161 $\chi^2$/NDF: 28.3/34

In: -741.200+/-937.297 $\chi^2$/NDF:15.9/21

Out: 655.757+/-764.036 $\chi^2$/NDF:22.0/25

All: 98.083+/-592.211 $\chi^2$/NDF: 39.2/47




Right In: 2208.912+/-0.758 $\chi^2$/NDF: 5499011.4/15

Left Out: 4321.030+/-1.334 $\chi^2$/NDF:135317.1/6

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853212.9/18

Left In: 4379.002+/-1.364 $\chi^2$/NDF:166298.9/5

Left: 4349.367+/-0.954 $\chi^2$/NDF: 302539.5/12

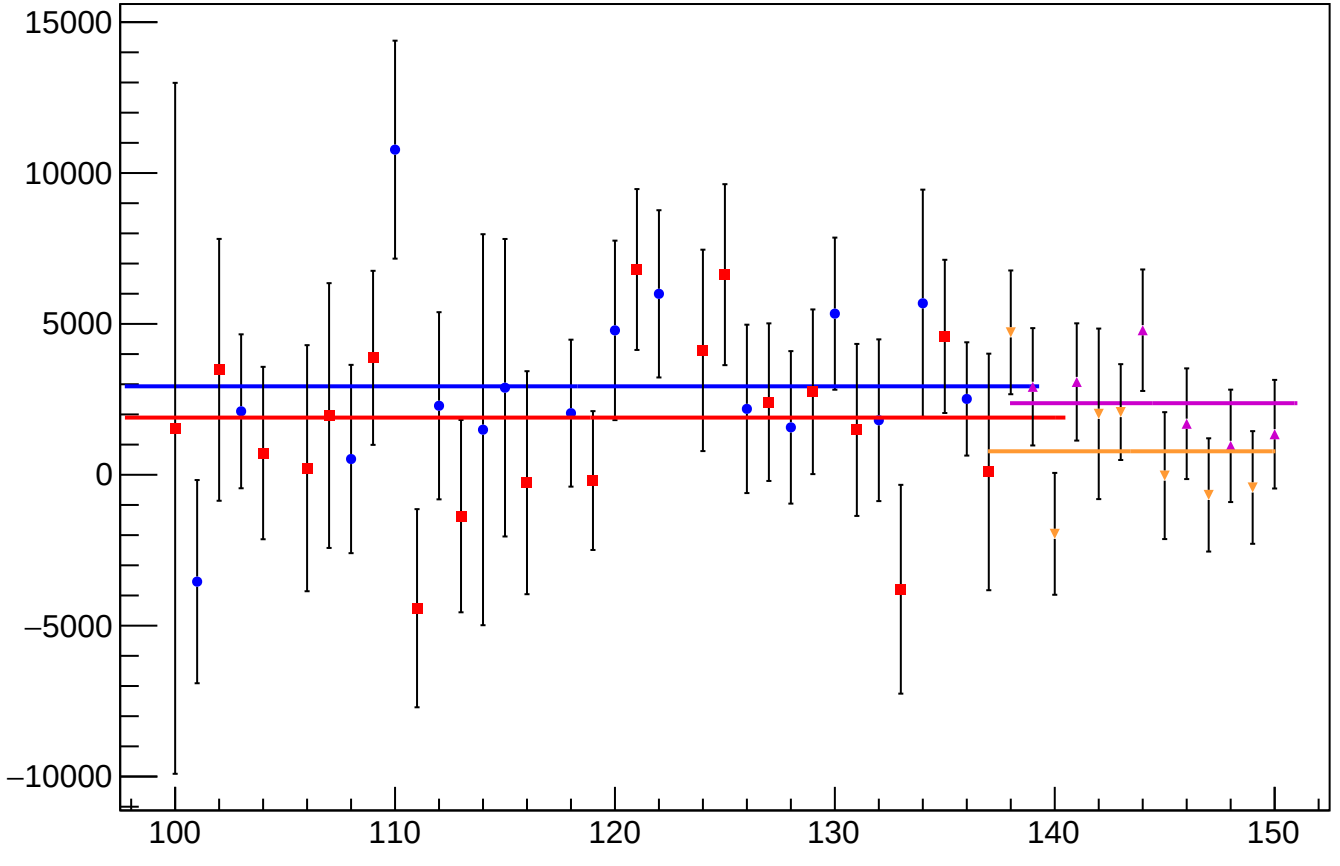
Right: 1876.192+/-0.466 $\chi^2$/NDF: 12661639.3/34

In: 2721.272+/-0.663 $\chi^2$/NDF:7598899.1/21

Out: 2108.420+/-0.540 $\chi^2$/NDF:10280494.1/25

All: 2353.074+/-0.419 $\chi^2$/NDF: 18393095.8/4

# eigen_dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected




Right In: 2931.693+/-718.305 $\chi^2$/NDF: 13.0/15

Left Out: 778.646+/-744.938 $\chi^2$/NDF:7.5/6

Right Out: 1895.508+/-721.953 $\chi^2$/NDF: 17.4/18

Left In: 2372.348+/-773.706 $\chi^2$/NDF:2.7/5

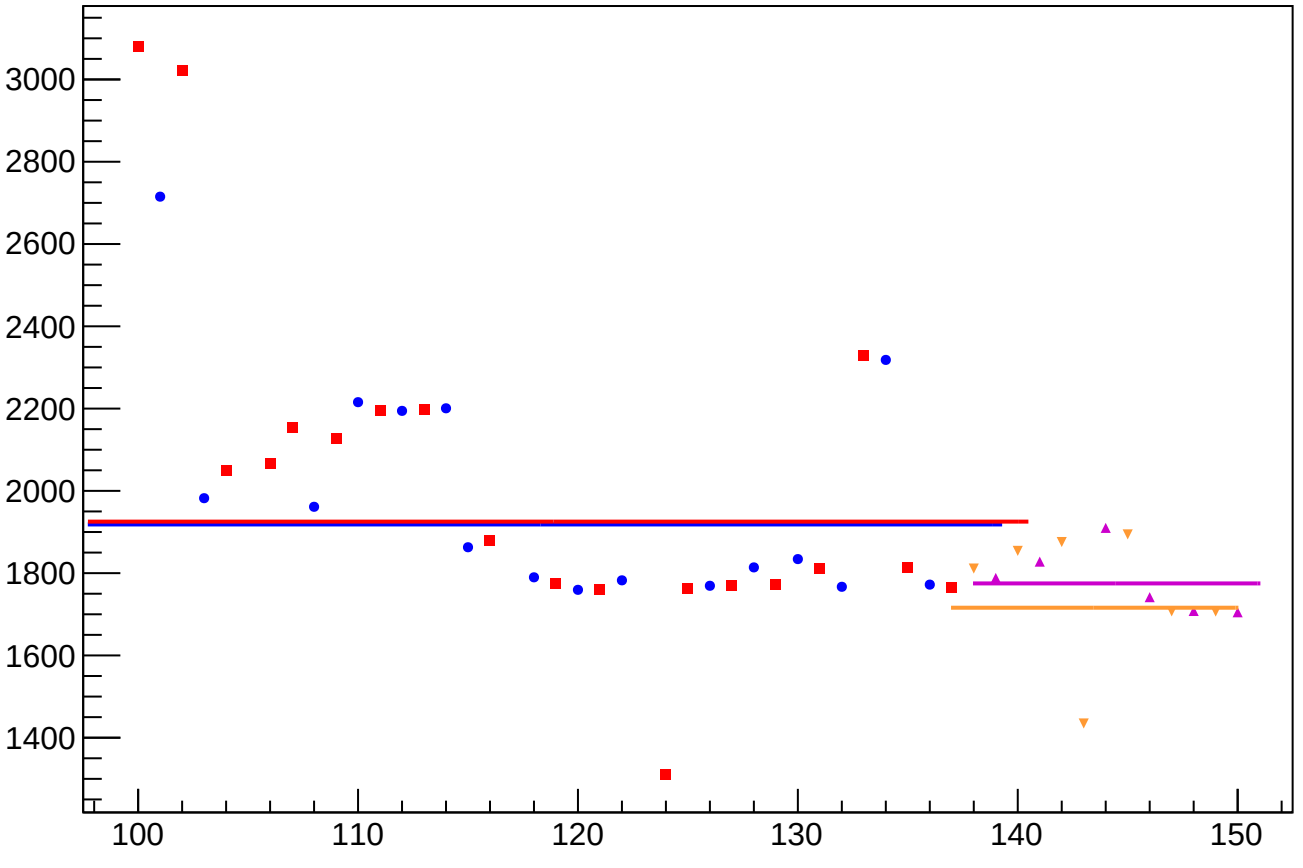
Left: 1545.317+/-536.633 $\chi^2$/NDF: 12.4/12

Right: 2416.225+/-509.203 $\chi^2$/NDF: 31.4/34

In: 2672.761+/-526.416 $\chi^2$/NDF:16.0/21

Out: 1354.572+/-518.433 $\chi^2$/NDF:26.1/25

All: 2003.597+/-369.378 $\chi^2$/NDF: 45.2/47




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1715.987+/-0.527 $\chi^2$/NDF:97317.5/6

Right Out: 1925.259+/-0.510 $\chi^2$/NDF: 339094.4/18

Left In: 1775.050+/-0.547 $\chi^2$/NDF:16862.8/5

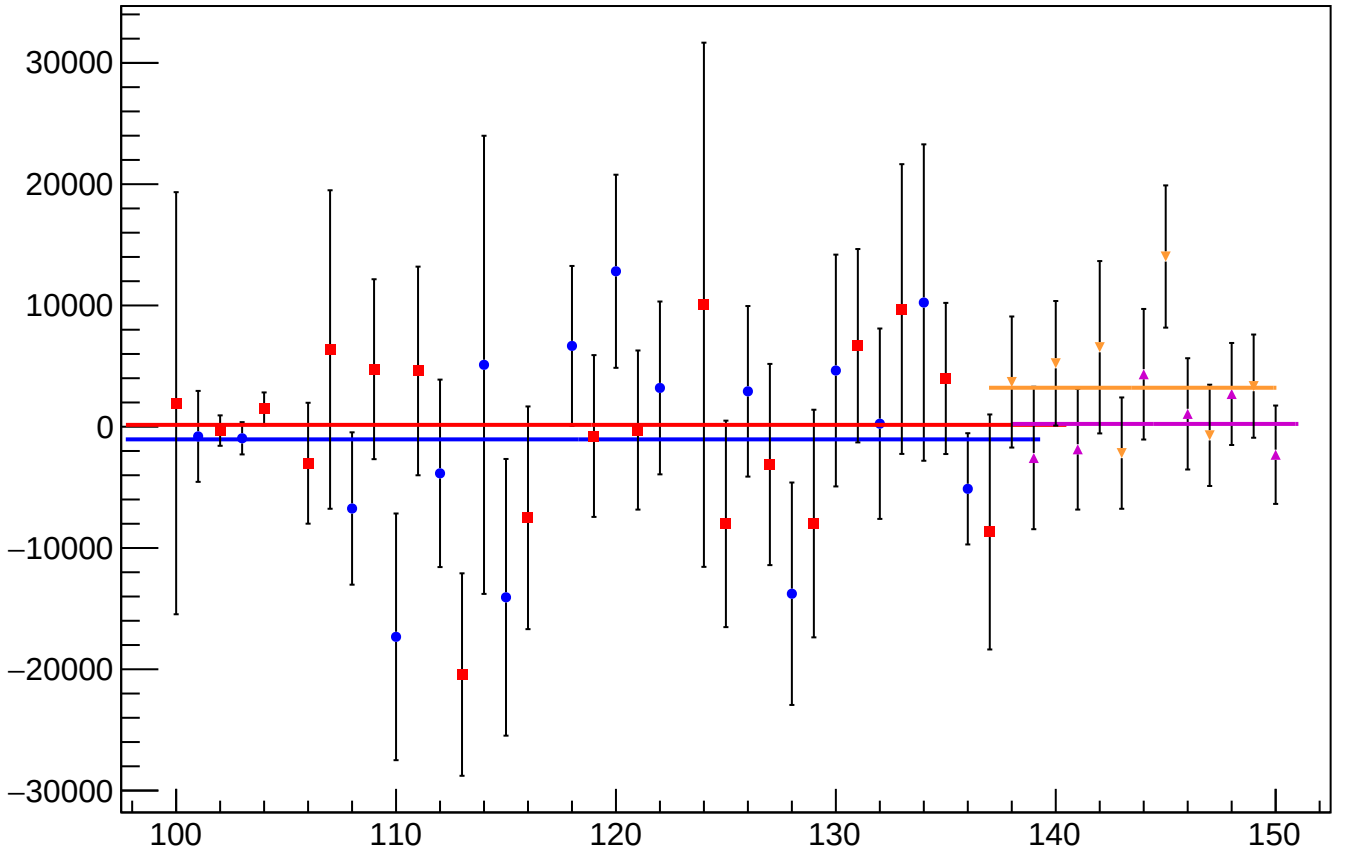
Left: 1744.400+/-0.379 $\chi^2$/NDF: 120228.3/12

Right: 1921.798+/-0.360 $\chi^2$/NDF: 554778.8/34

In: 1852.023+/-0.372 $\chi^2$/NDF:269311.7/21

Out: 1823.987+/-0.366 $\chi^2$/NDF:517868.1/25

All: 1837.785+/-0.261 $\chi^2$/NDF: 790060.6/47




Right In: -1041.906+/-1072.405 $\chi^2$/NDF: 13.8/15

Left Out: 3214.231+/-1886.282 $\chi^2$/NDF:6.1/6

Right Out: 153.614+/-835.655 $\chi^2$/NDF: 13.7/18

Left In: 231.729+/-1928.987 $\chi^2$/NDF:1.8/5

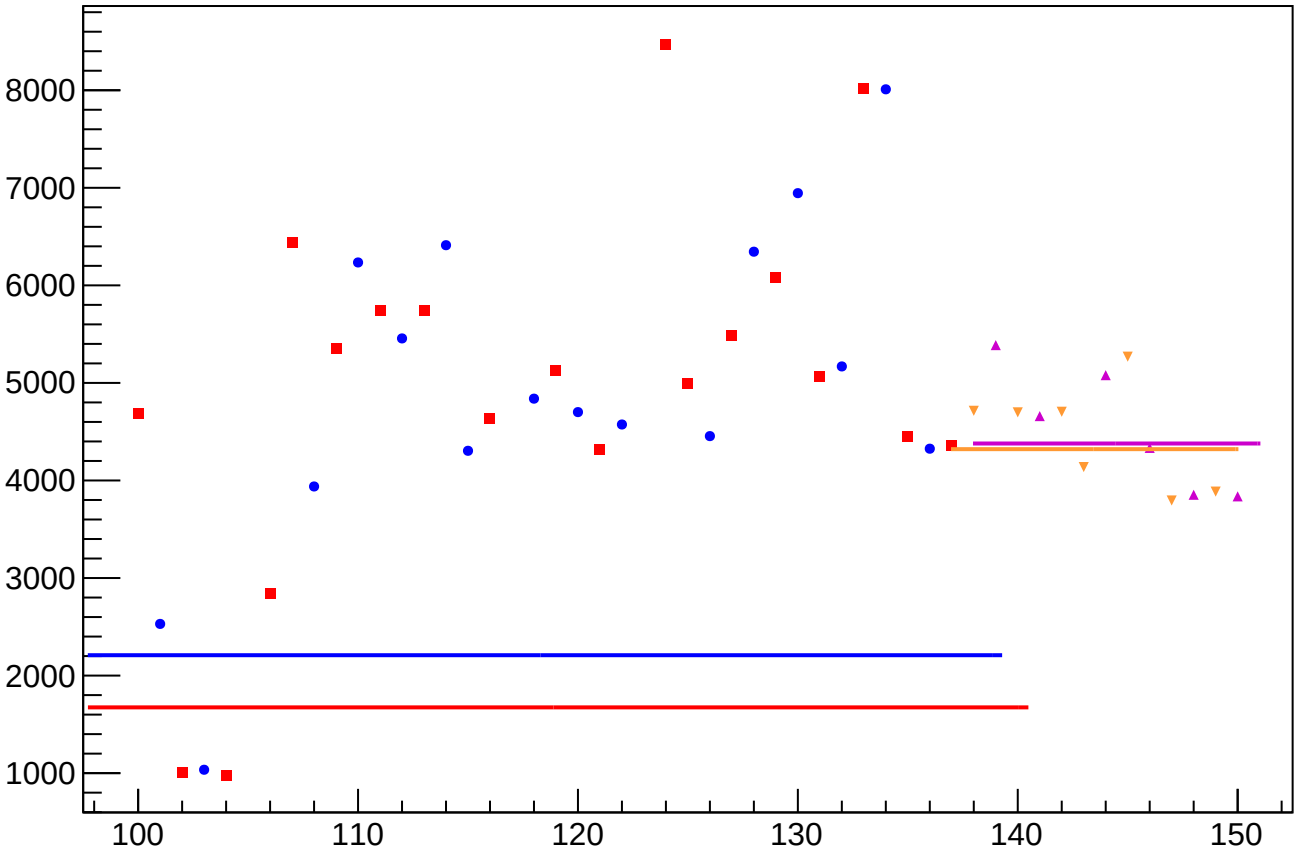
Left: 1756.360+/-1348.648 $\chi^2$/NDF: 9.0/12

Right: -298.056+/-659.161 $\chi^2$/NDF: 28.3/34

In: -741.201+/-937.297 $\chi^2$/NDF:15.9/21

Out: 655.752+/-764.035 $\chi^2$/NDF:22.0/25

All: 98.079+/-592.210 $\chi^2$/NDF: 39.2/47




Right In: 2208.911+/-0.758 $\chi^2$/NDF: 5499004.2/15

Left Out: 4321.036+/-1.334 $\chi^2$/NDF:135316.7/6

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853204.8/18

Left In: 4379.009+/-1.364 $\chi^2$/NDF:166298.3/5

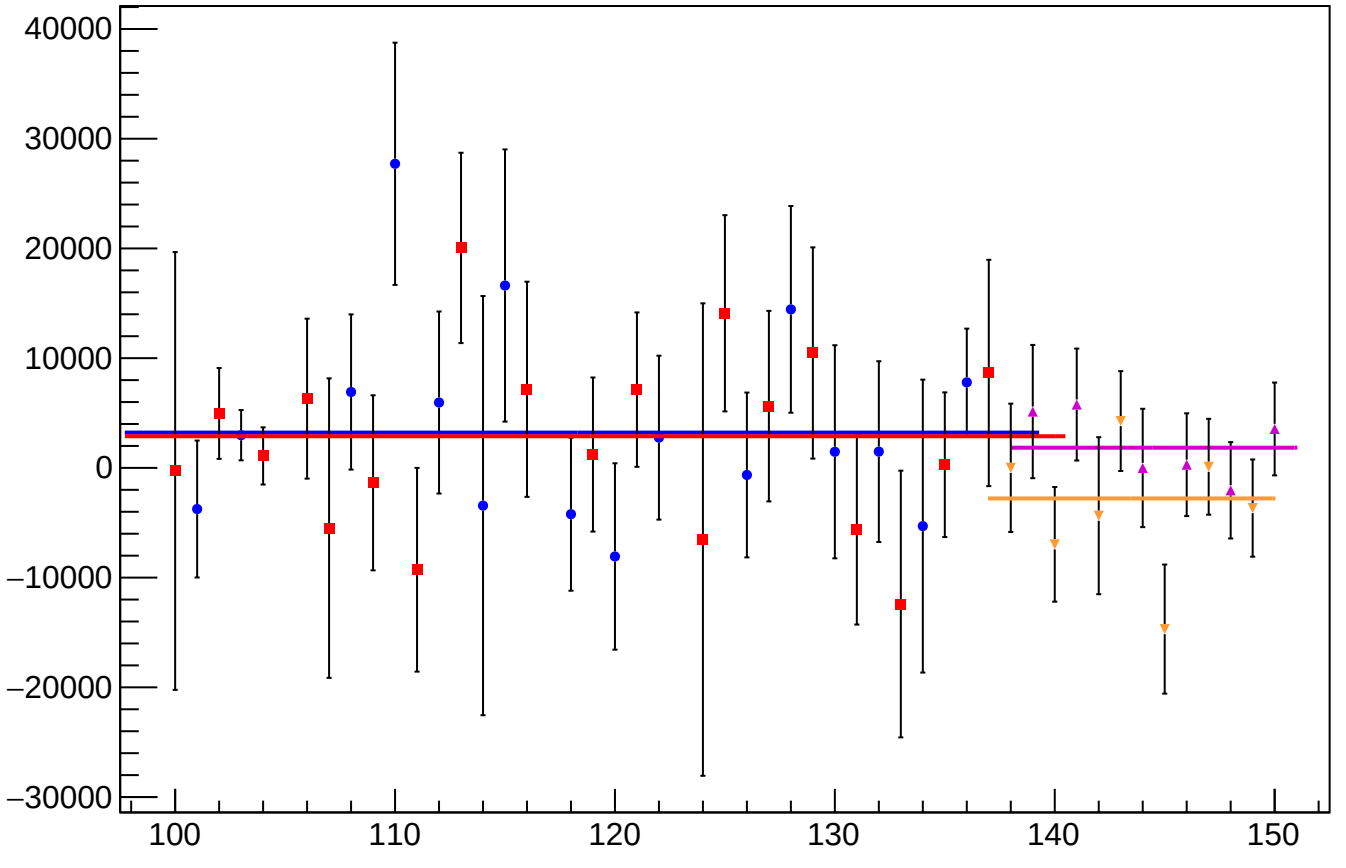
Left: 4349.374+/-0.954 $\chi^2$/NDF: 302538.4/12

Right: 1876.191+/-0.466 $\chi^2$/NDF: 12661624.0/34

In: 2721.271+/-0.663 $\chi^2$/NDF:7598900.9/21

Out: 2108.419+/-0.540 $\chi^2$/NDF:10280495.1/25

All: 2353.073+/-0.419 $\chi^2$/NDF: 18393098.6/4




Right In: 3215.695+/-1539.262 $\chi^2$/NDF: 13.8/15

Left Out: -2783.164+/-1939.180 $\chi^2$/NDF:7.9/6

Right Out: 2883.411+/-1552.120 $\chi^2$/NDF: 13.4/18

Left In: 1842.010+/-1986.670 $\chi^2$/NDF:2.1/5

Left: -526.518+/-1387.693 $\chi^2$/NDF: 12.7/12

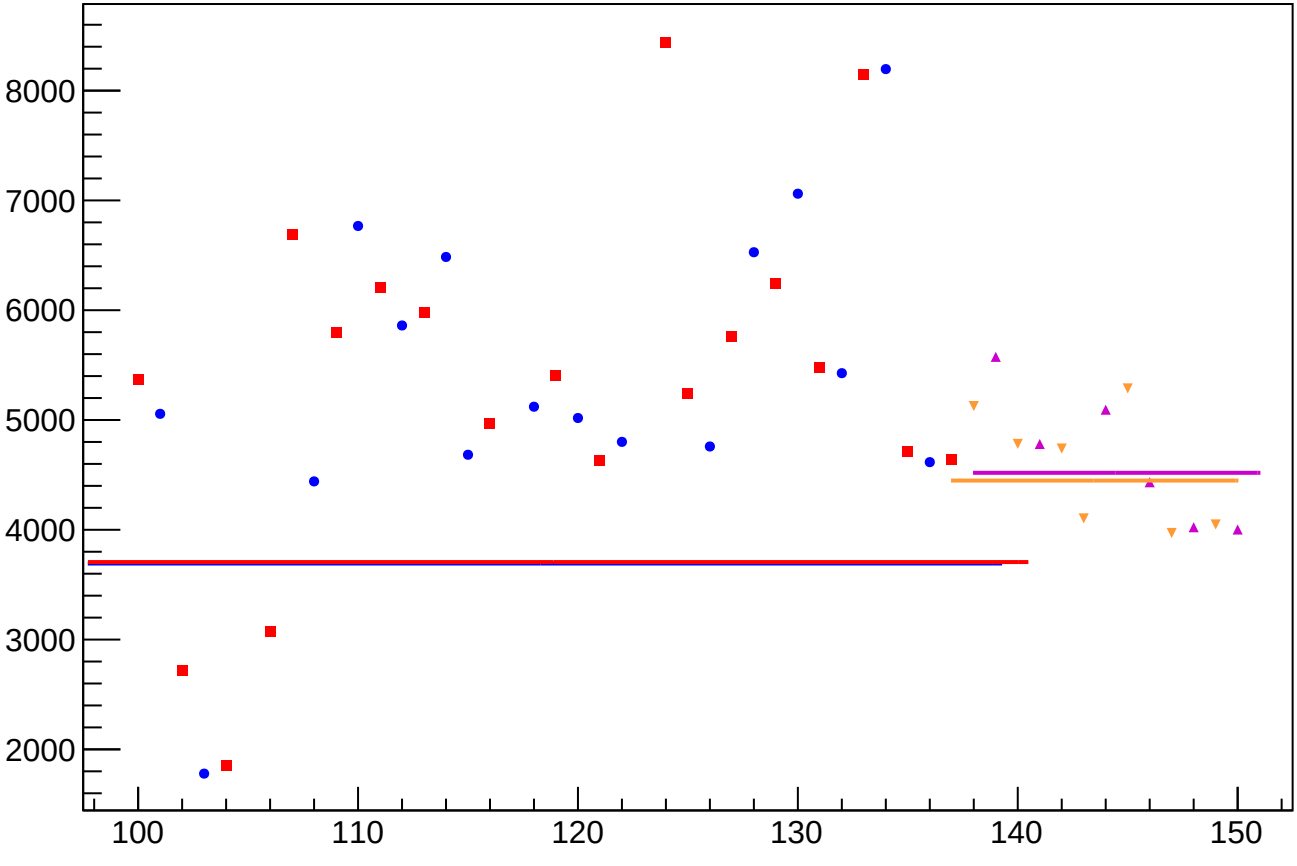
Right: 3050.935+/-1092.940 $\chi^2$/NDF: 27.2/34

In: 2700.398+/-1216.776 $\chi^2$/NDF:16.2/21

Out: 670.715+/-1211.766 $\chi^2$/NDF:26.5/25

All: 1681.369+/-858.614 $\chi^2$/NDF: 44.1/47

# asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 3692.815+/-1.088 $\chi^2$/NDF: 2885658.0/15

Left Out: 4448.458+/-1.371 $\chi^2$/NDF:130810.5/6

Right Out: 3706.081+/-1.087 $\chi^2$/NDF: 2684528.0/18

Left In: 4518.993+/-1.405 $\chi^2$/NDF:144557.0/5

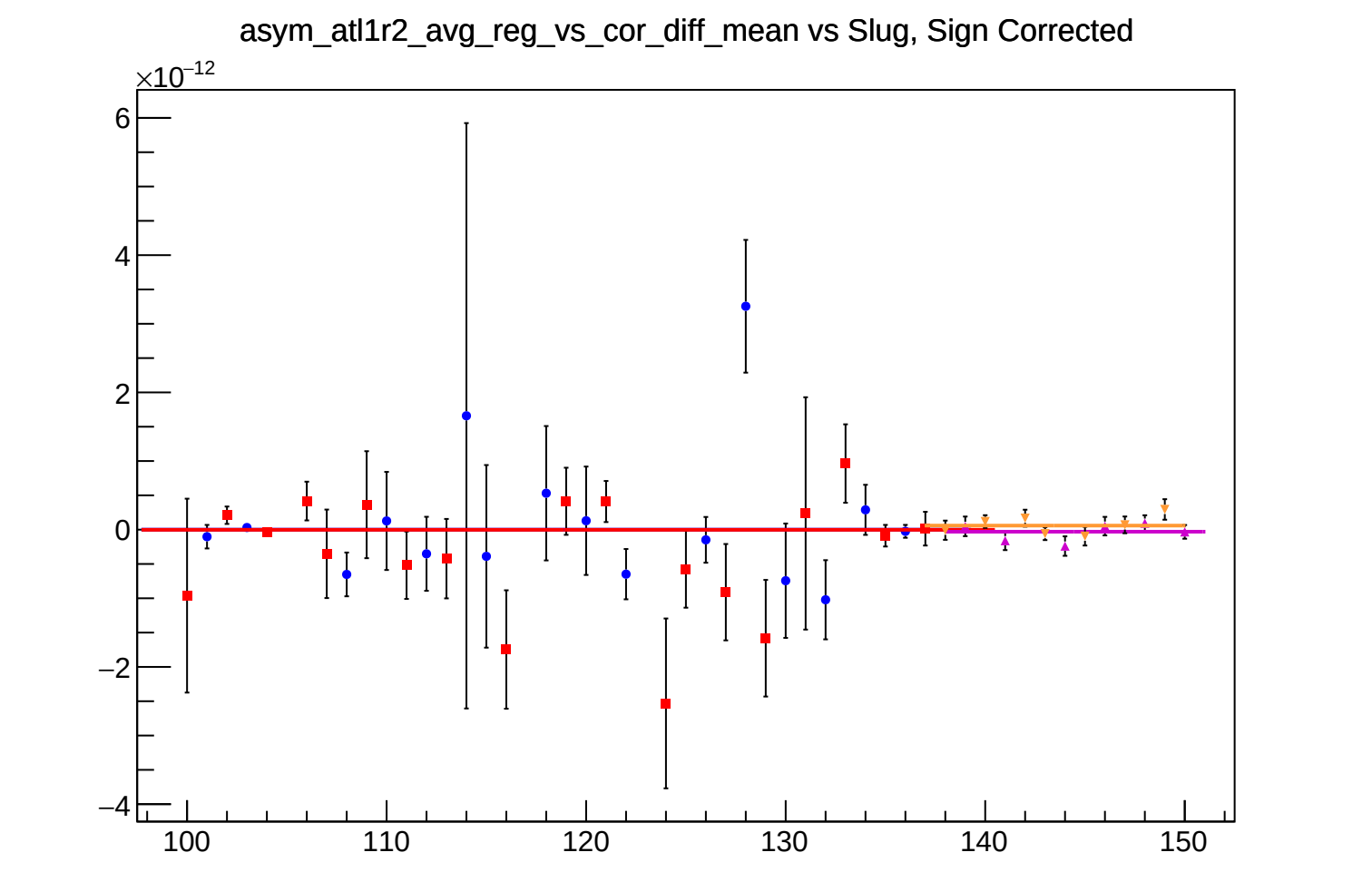
Left: 4482.873+/-0.981 $\chi^2$/NDF: 276658.6/12

Right: 3699.460+/-0.769 $\chi^2$/NDF: 5570260.4/34

In: 4002.731+/-0.860 $\chi^2$/NDF:3246348.9/21

Out: 3992.429+/-0.852 $\chi^2$/NDF:2995395.9/25

All: 3997.527+/-0.605 $\chi^2$/NDF: 6241817.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.9/5

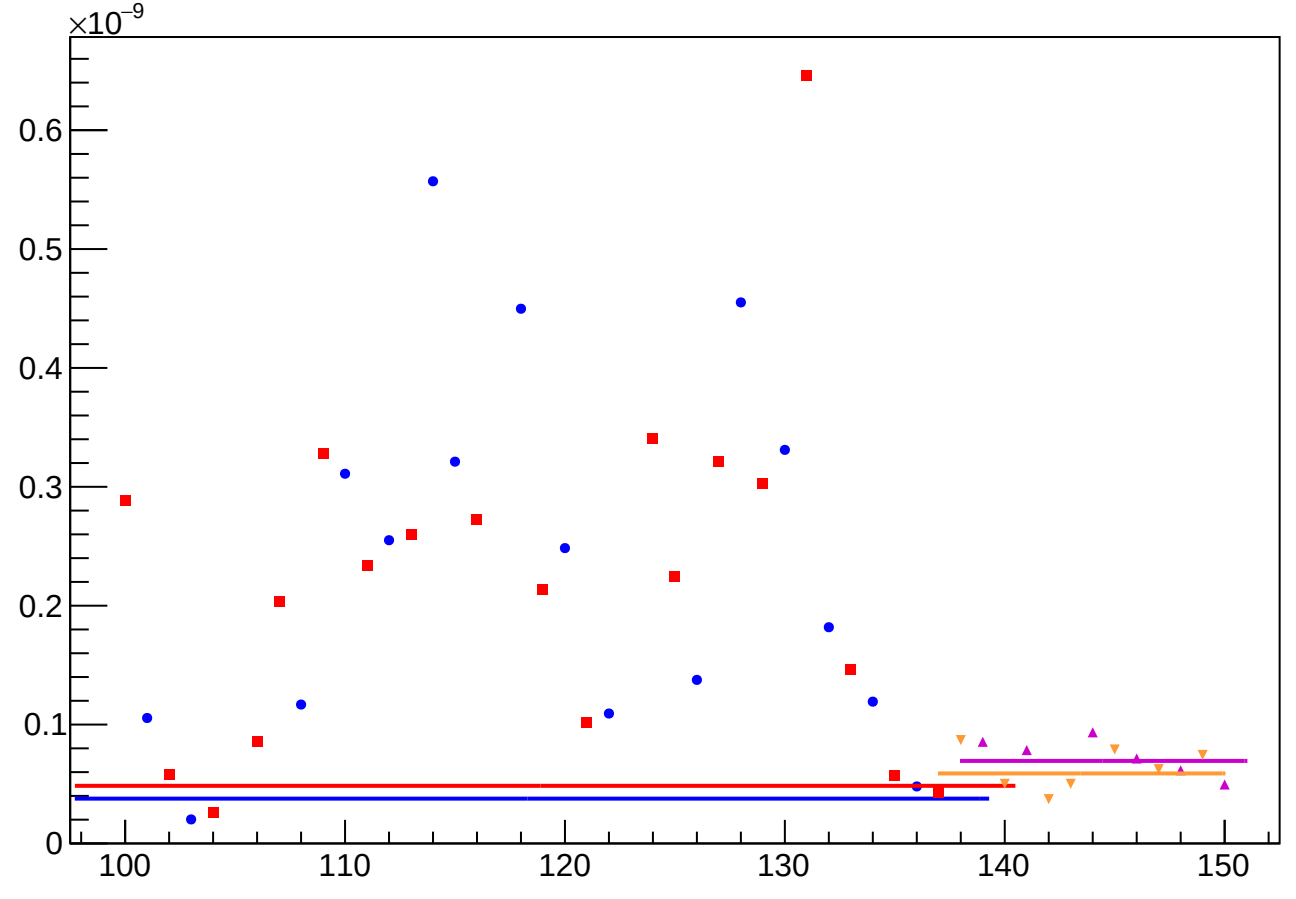
Left: 0.000+/-0.000 $\chi^2$/NDF: 13.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:35.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 67.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3140697.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:244741.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2895431.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:180345.6/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 473751.5/12

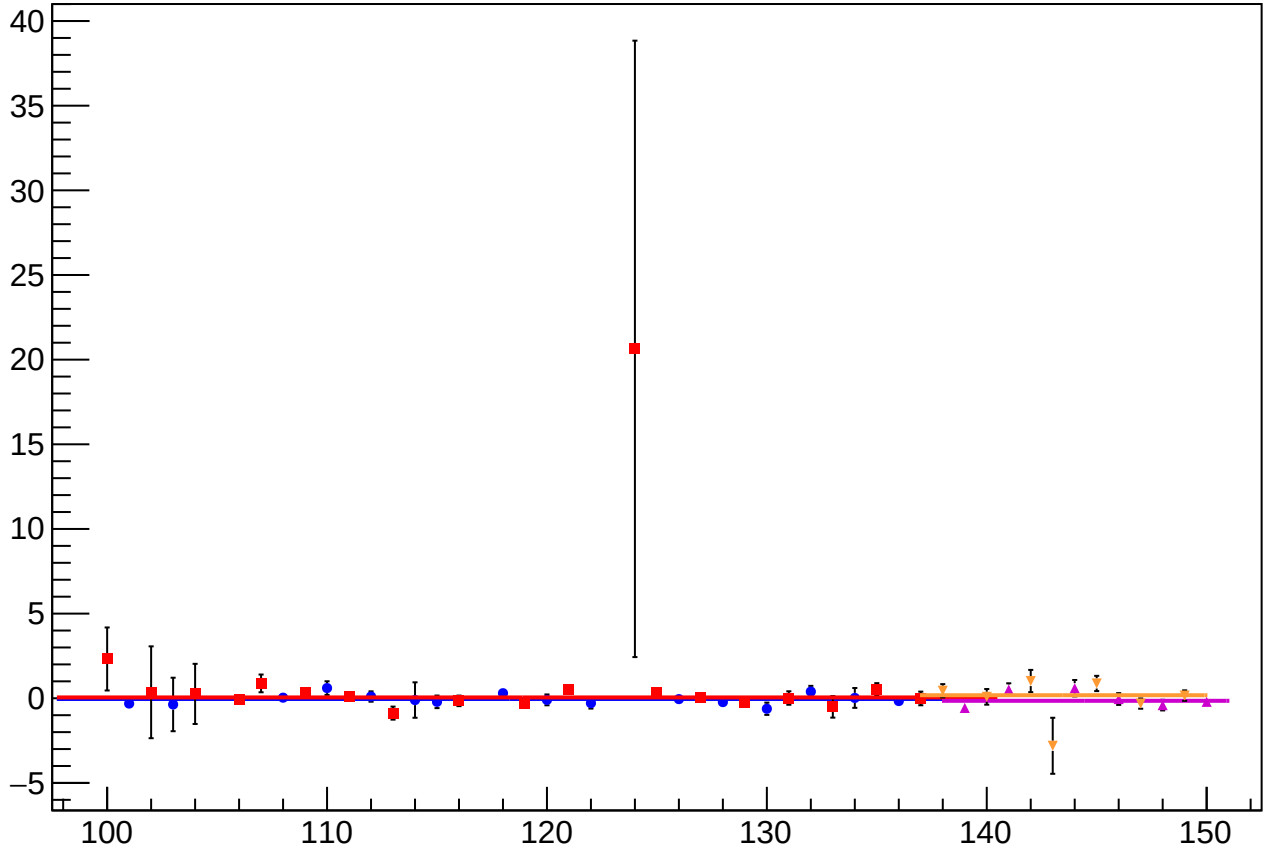
Right: 0.000+/-0.000 $\chi^2$/NDF: 6105820.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3832198.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3195073.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7059109.8/47

asym_atl1r2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: 0.179+/-0.158 $\chi^2$/NDF:10.4/6

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.150+/-0.135 $\chi^2$/NDF:8.8/5

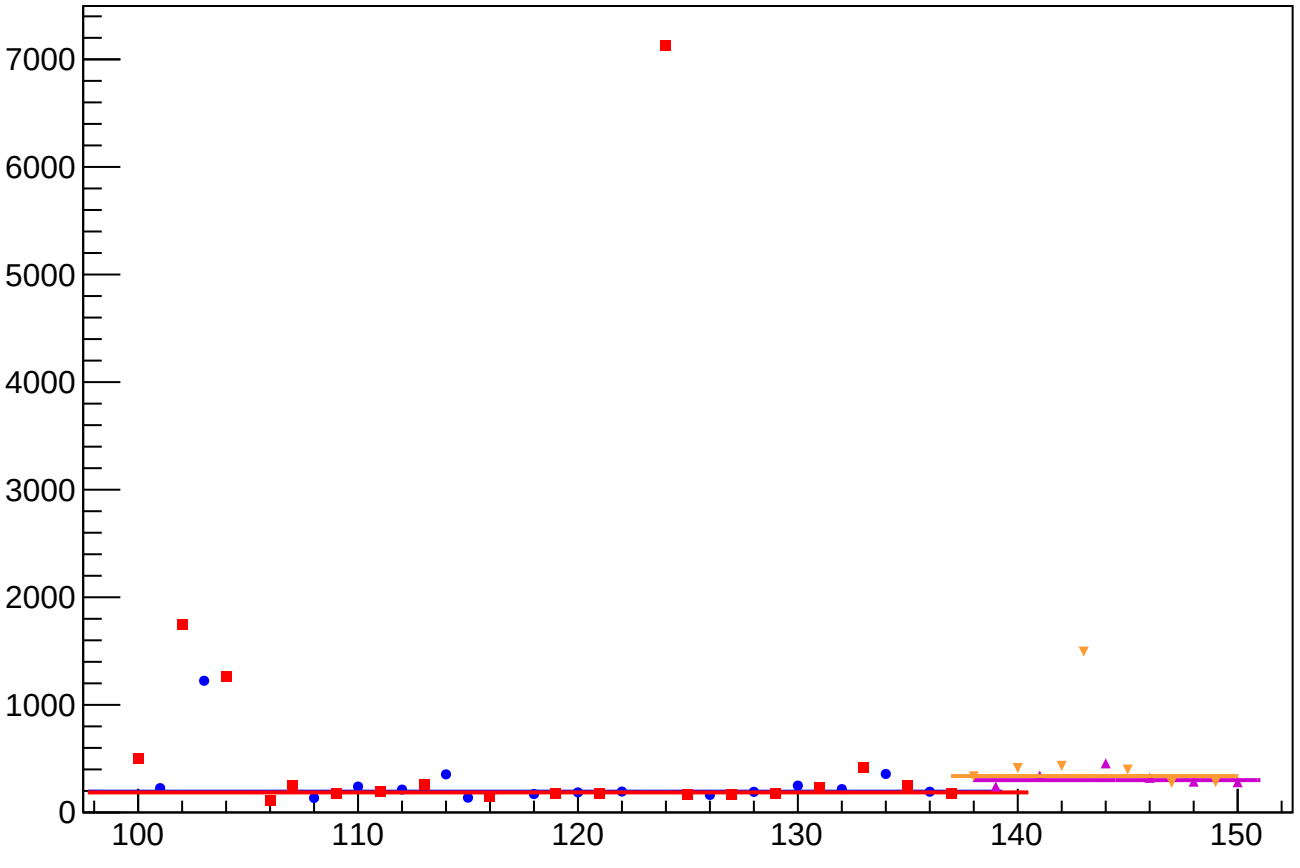
Left: -0.011+/-0.103 $\chi^2$/NDF: 21.7/12

Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.068+/-0.067 $\chi^2$/NDF:21.0/21

Out: 0.075+/-0.071 $\chi^2$/NDF:33.9/25

All: 0.000+/-0.049 $\chi^2$/NDF: 57.1/47




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 338.326+/-0.112 $\chi^2$/NDF:1256587.3/6

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 300.421+/-0.096 $\chi^2$/NDF:347947.8/5

Left: 316.419+/-0.073 $\chi^2$/NDF: 1671002.8/12

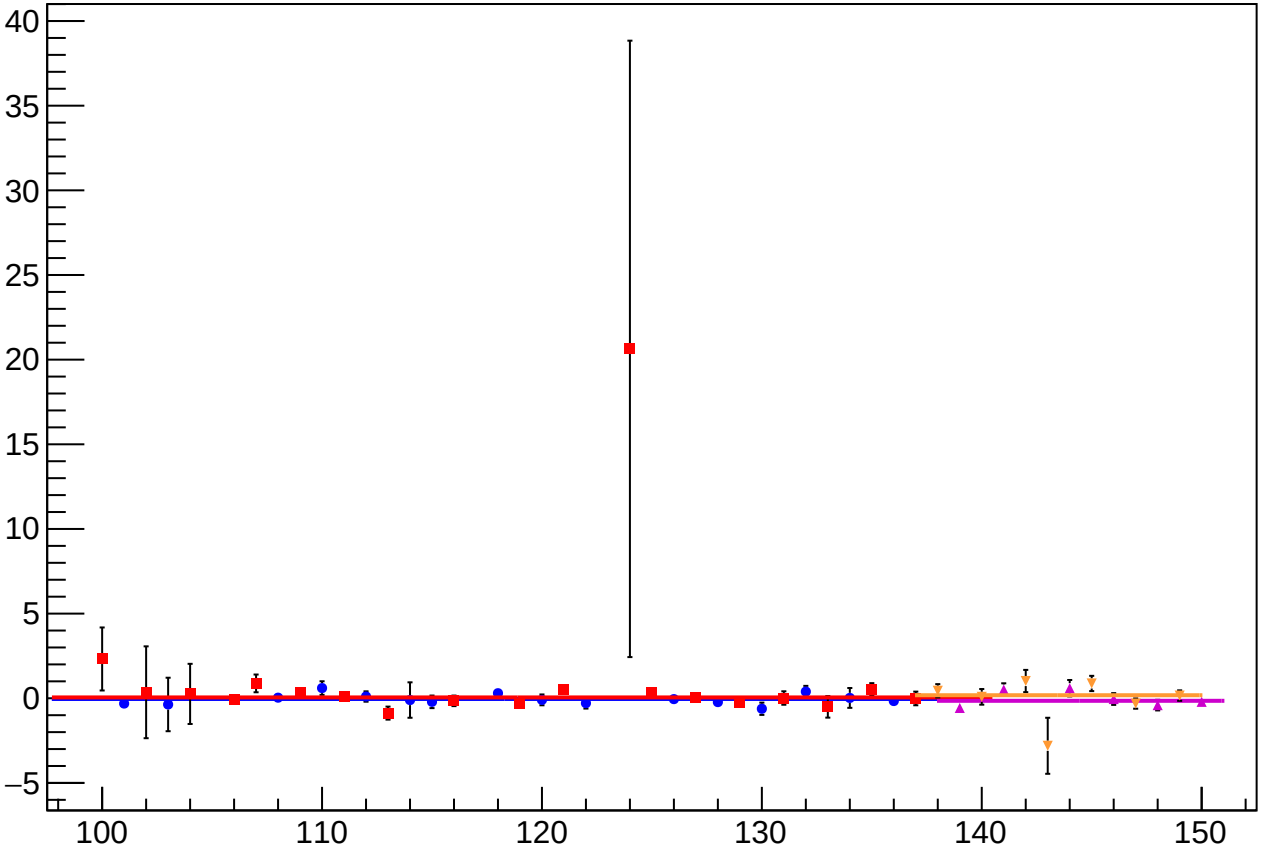
Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 219.921+/-0.048 $\chi^2$/NDF:2701979.5/21

Out: 216.619+/-0.050 $\chi^2$/NDF:5215994.4/25

All: 218.345+/-0.034 $\chi^2$/NDF: 7920265.7/47

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: 0.179+/-0.158 $\chi^2$/NDF:10.4/6

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.150+/-0.135 $\chi^2$/NDF:8.8/5

Left: -0.011+/-0.103 $\chi^2$/NDF: 21.7/12

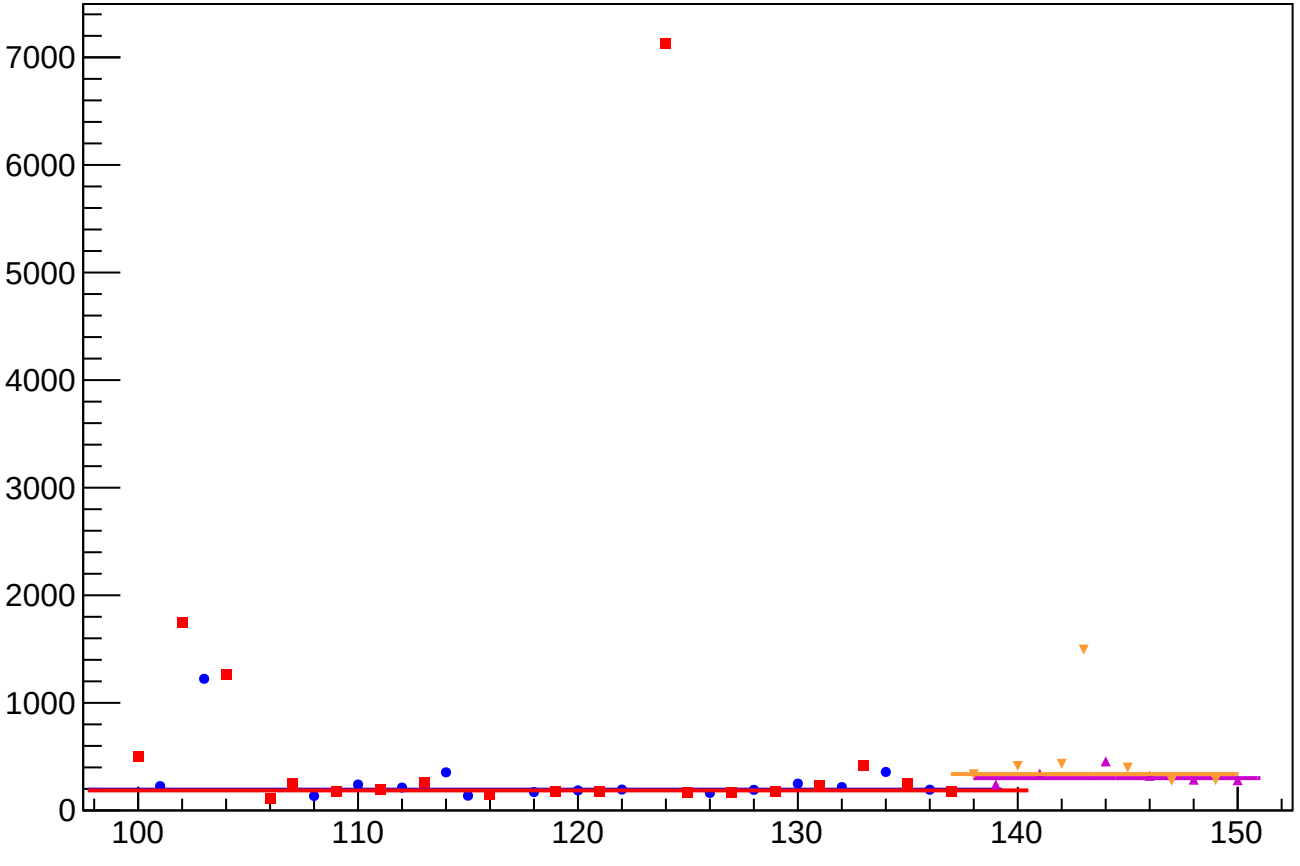
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.068+/-0.067 $\chi^2$/NDF:21.0/21

Out: 0.075+/-0.071 $\chi^2$/NDF:33.9/25

All: 0.000+/-0.049 $\chi^2$/NDF: 57.1/47

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 338.326+/-0.112 $\chi^2$/NDF:1256587.3/6

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 300.421+/-0.096 $\chi^2$/NDF:347947.8/5

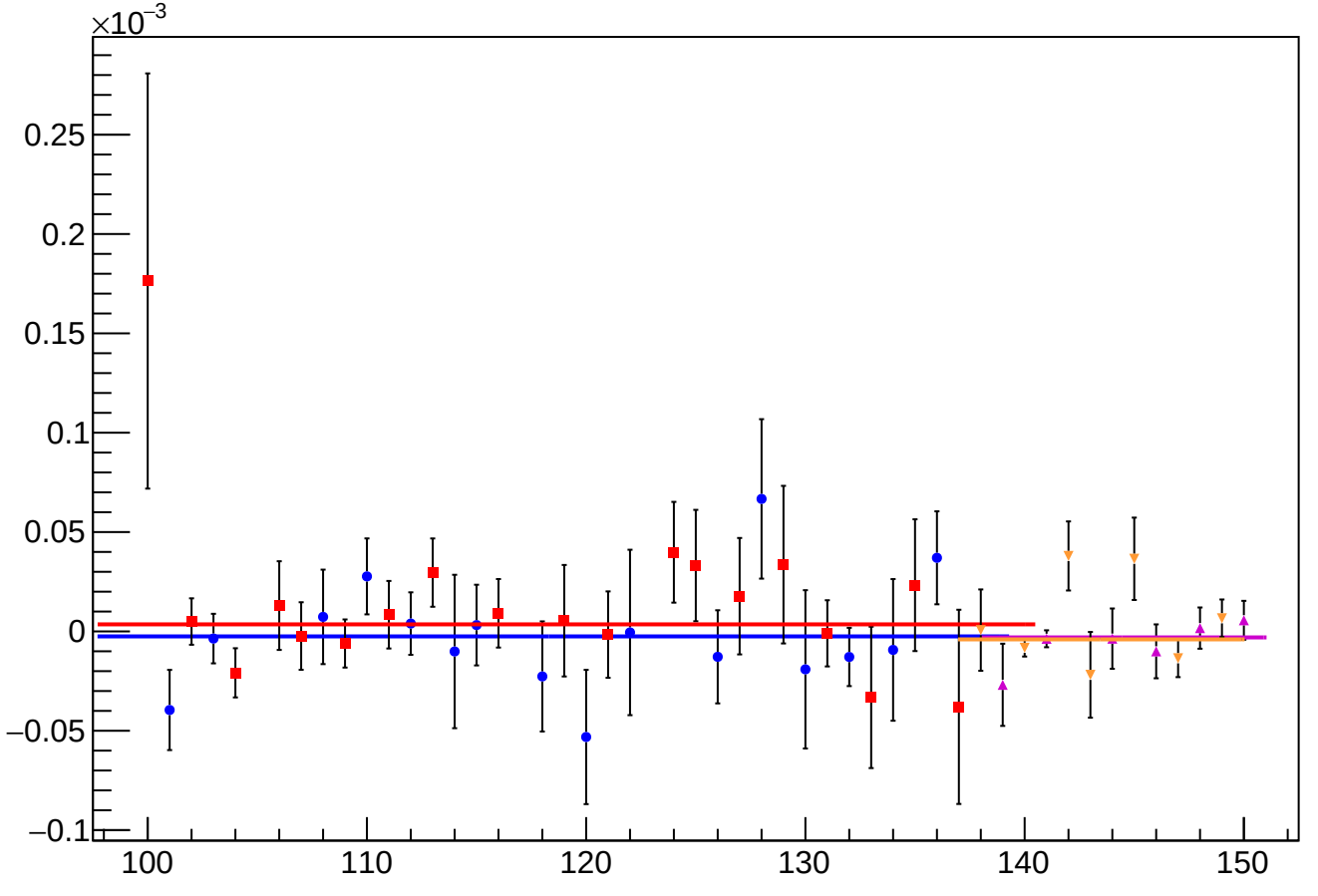
Left: 316.419+/-0.073 $\chi^2$/NDF: 1671002.8/12

Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 219.921+/-0.048 $\chi^2$/NDF:2701979.5/21

Out: 216.619+/-0.050 $\chi^2$/NDF:5215994.4/25

All: 218.345+/-0.034 $\chi^2$/NDF: 7920265.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.6/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 16.2/12

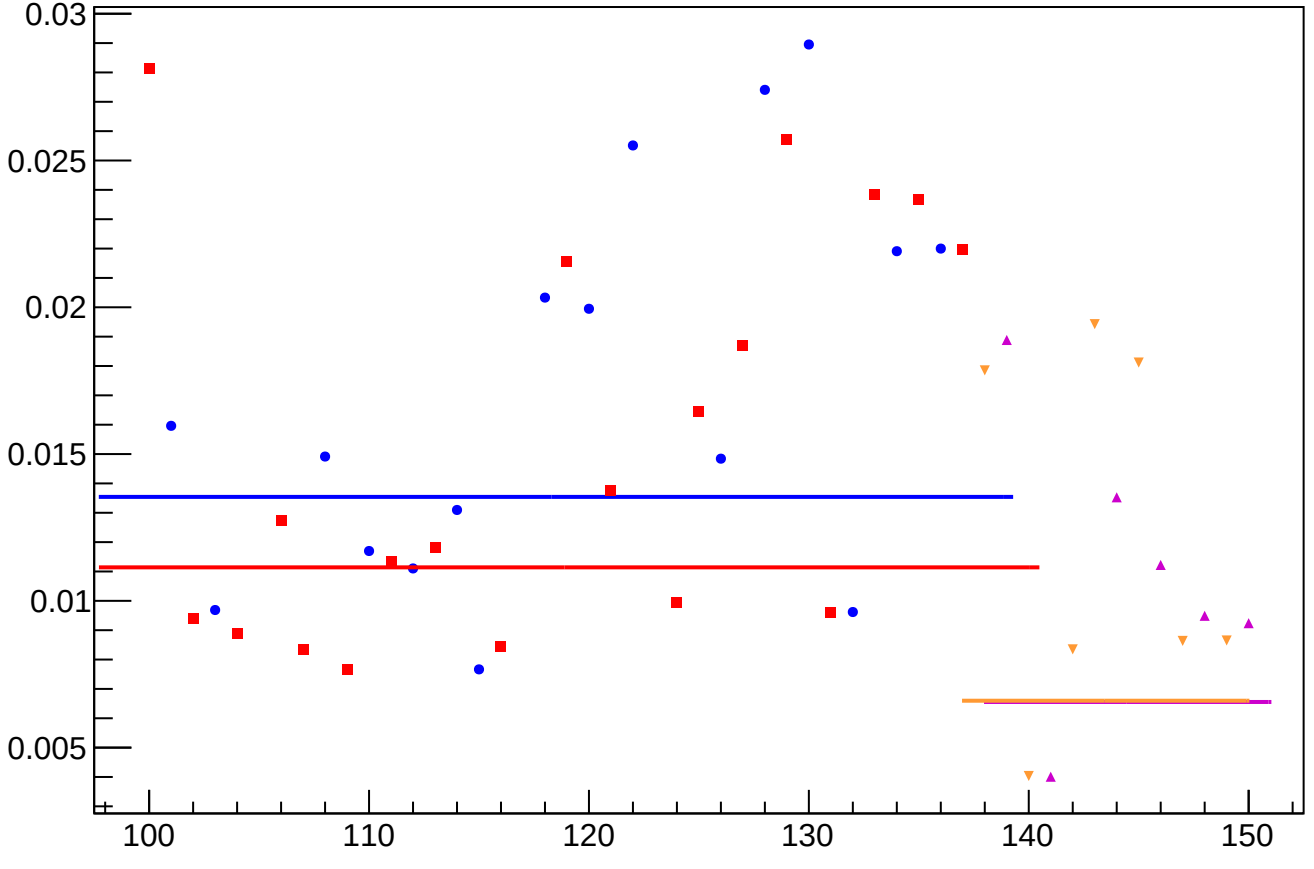
Right: 0.000+/-0.000 $\chi^2$/NDF: 32.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.5/21

Out: -0.000+/-0.000 $\chi^2$/NDF:31.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 50.3/47

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1877615.1/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:2815974.4/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1887740.8/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:2393382.8/5

Left: 0.007+/-0.000 $\chi^2$/NDF: 5209514.4/12

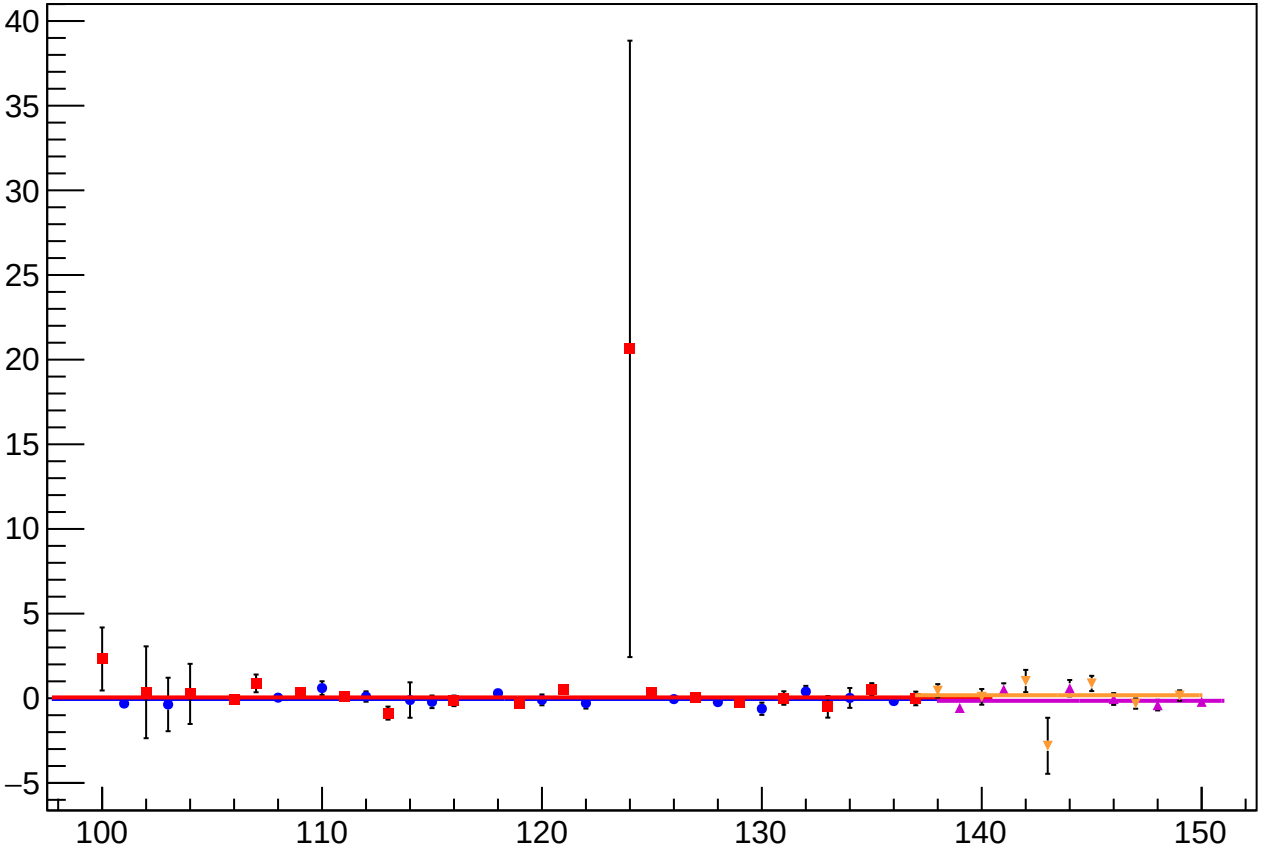
Right: 0.012+/-0.000 $\chi^2$/NDF: 3997435.7/34

In: 0.009+/-0.000 $\chi^2$/NDF:6637425.1/21

Out: 0.008+/-0.000 $\chi^2$/NDF:6001193.0/25

All: 0.008+/-0.000 $\chi^2$/NDF: 12644203.2/47

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: 0.179+/-0.158 $\chi^2$/NDF:10.4/6

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.150+/-0.135 $\chi^2$/NDF:8.8/5

Left: -0.011+/-0.103 $\chi^2$/NDF: 21.7/12

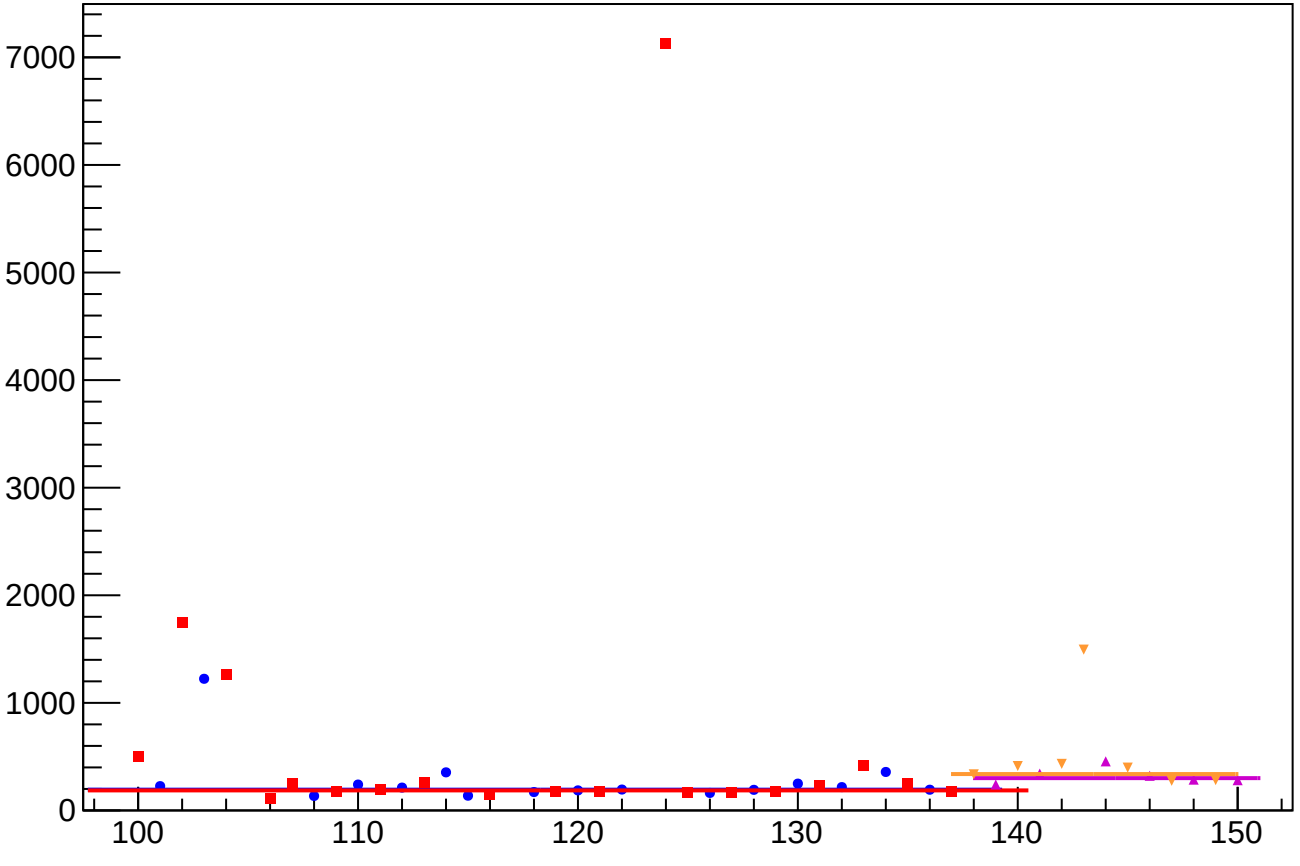
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.068+/-0.067 $\chi^2$/NDF:21.0/21

Out: 0.075+/-0.071 $\chi^2$/NDF:33.9/25

All: 0.000+/-0.049 $\chi^2$/NDF: 57.1/47

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.247+/-0.055 $\chi^2$/NDF: 1408390.6/15

Left Out: 338.331+/-0.112 $\chi^2$/NDF:1256557.7/6

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 300.426+/-0.096 $\chi^2$/NDF:347930.4/5

Left: 316.424+/-0.073 $\chi^2$/NDF: 1670952.8/12

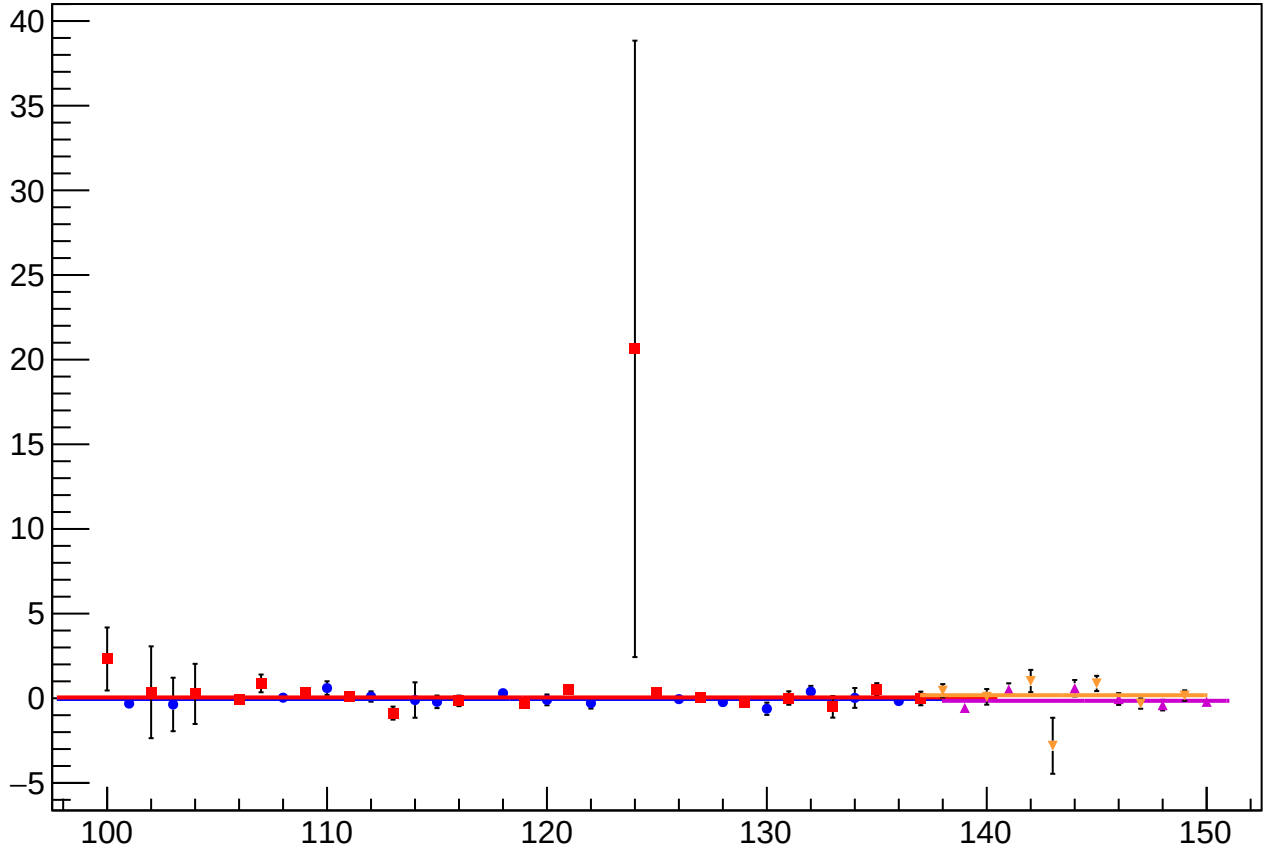
Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 219.920+/-0.048 $\chi^2$/NDF:2702051.8/21

Out: 216.617+/-0.050 $\chi^2$/NDF:5216104.6/25

All: 218.343+/-0.034 $\chi^2$/NDF: 7920449.8/47

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: 0.179+/-0.158 $\chi^2$/NDF:10.4/6

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.150+/-0.135 $\chi^2$/NDF:8.8/5

Left: -0.011+/-0.103 $\chi^2$/NDF: 21.7/12

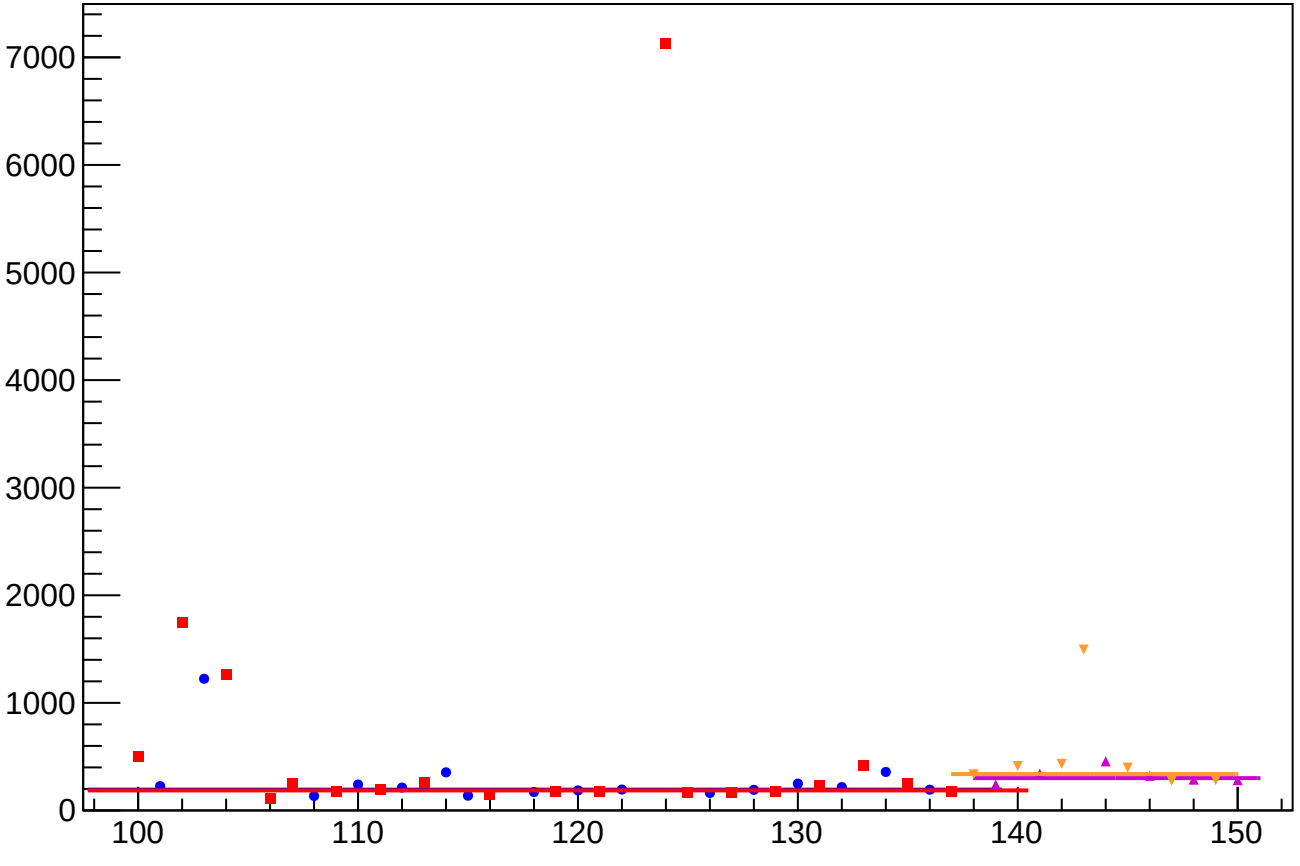
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.068+/-0.067 $\chi^2$/NDF:21.0/21

Out: 0.075+/-0.071 $\chi^2$/NDF:33.9/25

All: 0.000+/-0.049 $\chi^2$/NDF: 57.1/47

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.247+/-0.055 $\chi^2$/NDF: 1408390.6/15

Left Out: 338.331+/-0.112 $\chi^2$/NDF:1256557.7/6

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 300.426+/-0.096 $\chi^2$/NDF:347930.4/5

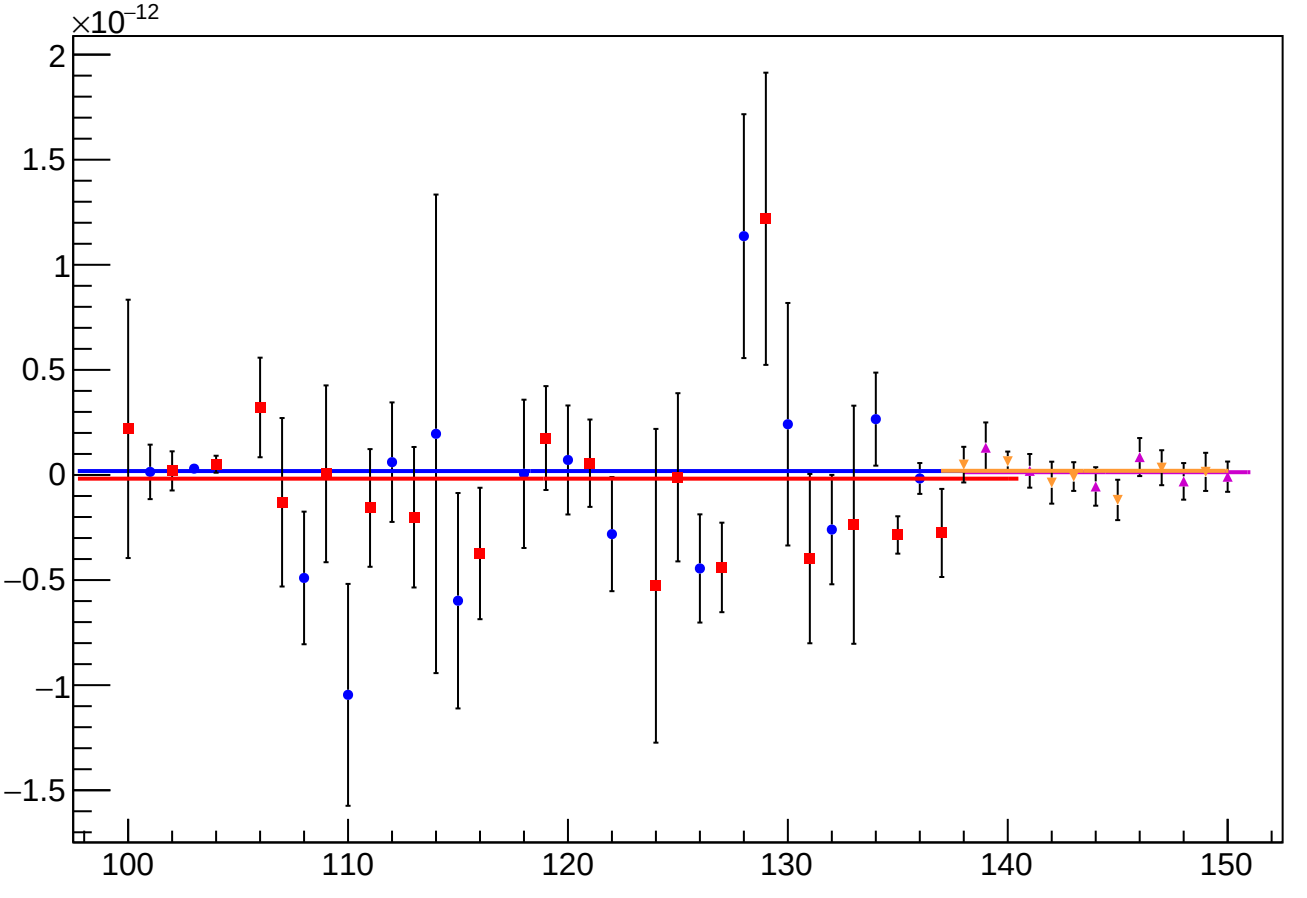
Left: 316.424+/-0.073 $\chi^2$/NDF: 1670952.8/12

Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 219.920+/-0.048 $\chi^2$/NDF:2702051.8/21

Out: 216.617+/-0.050 $\chi^2$/NDF:5216104.6/25

All: 218.343+/-0.034 $\chi^2$/NDF: 7920449.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.5/5

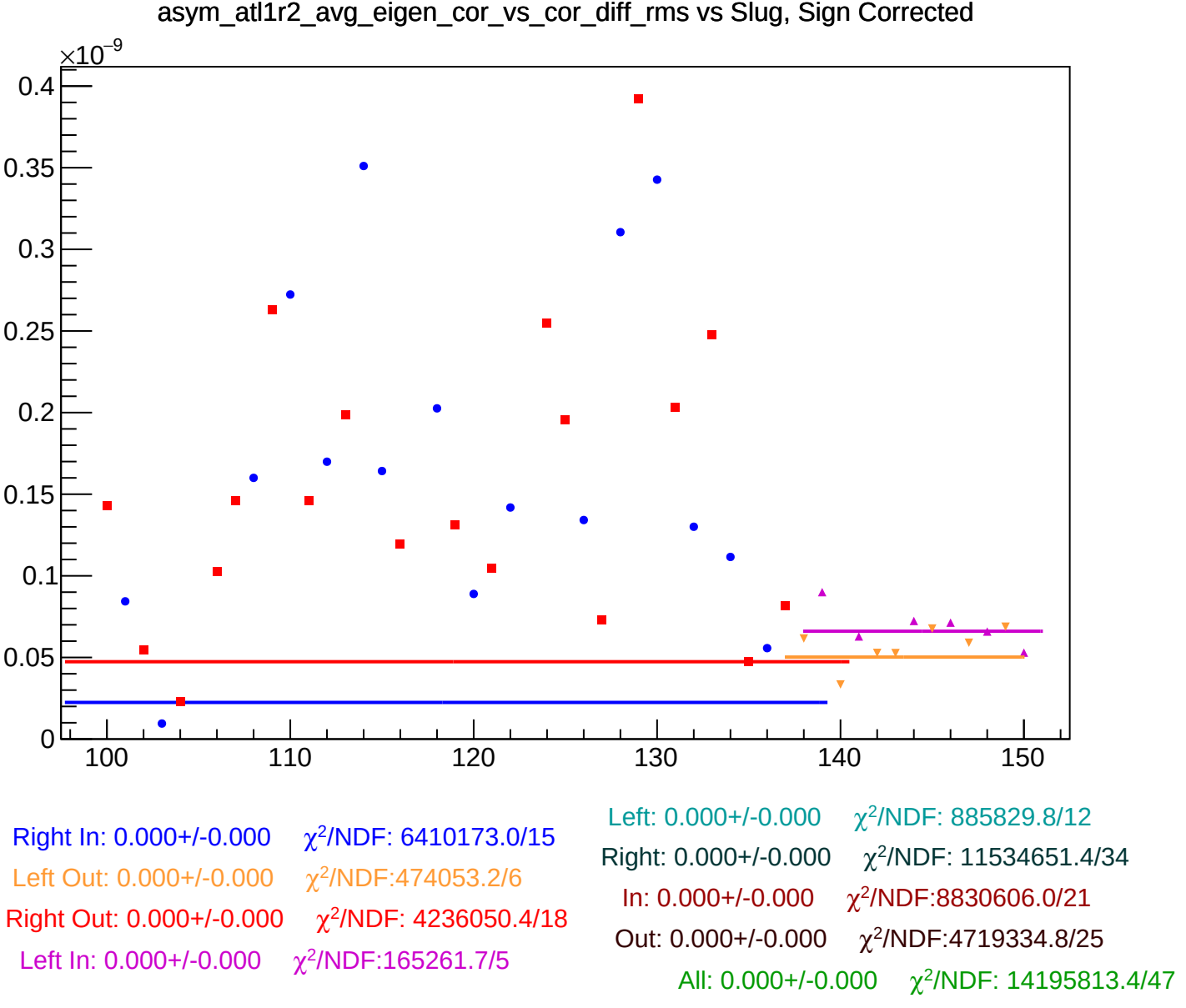
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.5/34

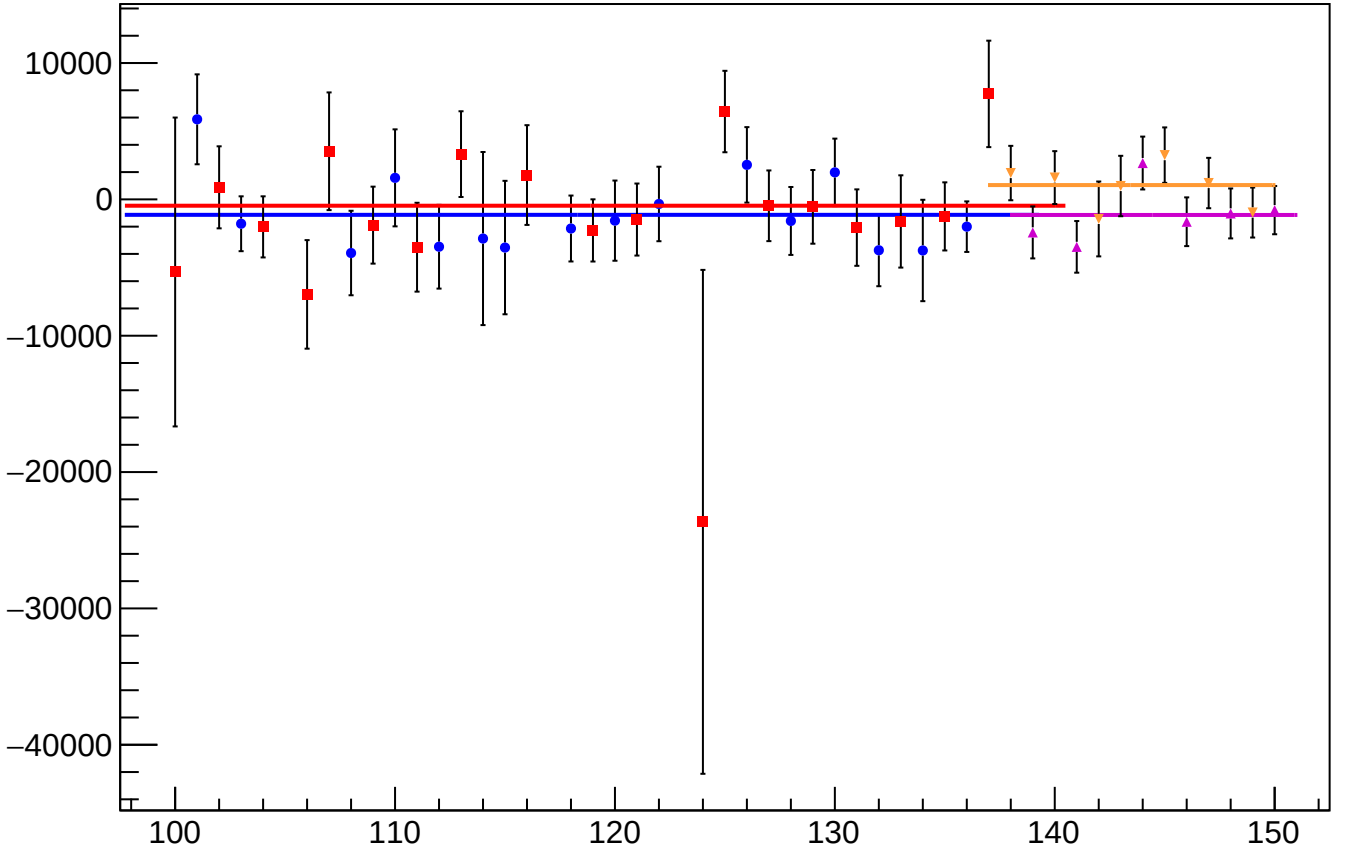
In: 0.000+/-0.000 $\chi^2$/NDF:21.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:31.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.8/47


asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 6410173.0/15
Left Out: 0.000+/-0.000 χ²/NDF:474053.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 4236050.4/18
Left In: 0.000+/-0.000 χ²/NDF:165261.7/5
Left: 0.000+/-0.000 χ²/NDF: 885829.8/12
Right: 0.000+/-0.000 χ²/NDF: 11534651.4/34
In: 0.000+/-0.000 χ²/NDF:8830606.0/21
Out: 0.000+/-0.000 χ²/NDF:4719334.8/25
All: 0.000+/-0.000 χ²/NDF: 14195813.4/47

# reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected




Right In: -1134.630+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 1048.392+/-770.096 $\chi^2$/NDF:3.5/6

Right Out: -465.519+/-705.926 $\chi^2$/NDF: 20.0/18

Left In: -1143.834+/-755.668 $\chi^2$/NDF:6.0/5

Left: -68.449+/-539.367 $\chi^2$/NDF: 13.6/12

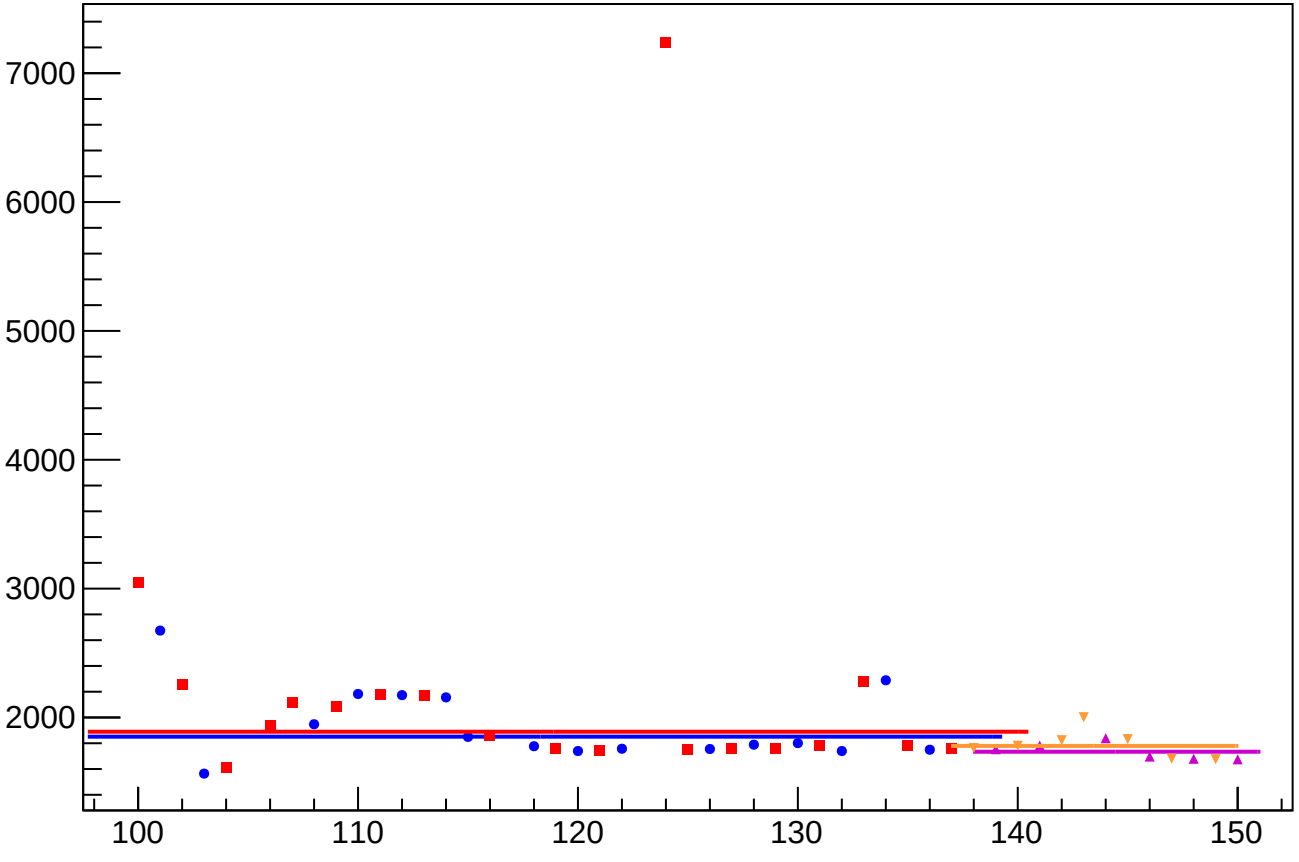
Right: -805.879+/-494.815 $\chi^2$/NDF: 32.7/34

In: -1138.840+/-511.058 $\chi^2$/NDF:18.2/21

Out: 225.744+/-520.375 $\chi^2$/NDF:25.6/25

All: -468.873+/-364.622 $\chi^2$/NDF: 47.3/47

# reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.130+/-0.491 $\chi^2$/NDF: 259981.6/15

Left Out: 1779.434+/-0.545 $\chi^2$/NDF:34177.5/6

Right Out: 1889.528+/-0.498 $\chi^2$/NDF: 358902.6/18

Left In: 1734.196+/-0.534 $\chi^2$/NDF:12193.2/5

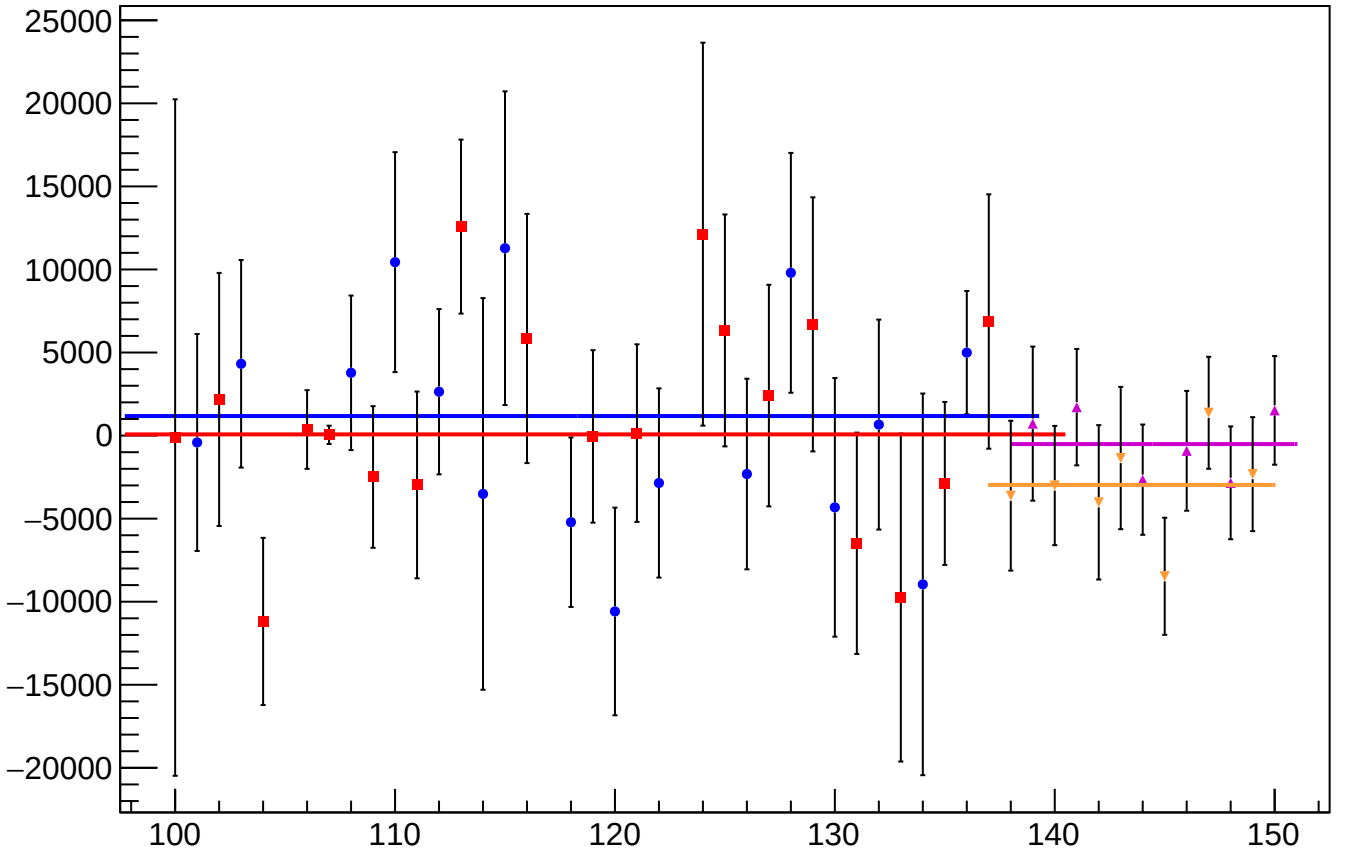
Left: 1756.387+/-0.381 $\chi^2$/NDF: 49886.7/12

Right: 1870.040+/-0.349 $\chi^2$/NDF: 621901.2/34

In: 1797.647+/-0.361 $\chi^2$/NDF:298161.3/21

Out: 1839.385+/-0.367 $\chi^2$/NDF:415338.8/25

All: 1818.165+/-0.258 $\chi^2$/NDF: 720058.0/47




Right In: 1175.430+/-1502.128 $\chi^2$/NDF: 13.7/15

Left Out: -2970.867+/-1441.758 $\chi^2$/NDF:4.3/6

Right Out: 72.681+/-505.693 $\chi^2$/NDF: 17.9/18

Left In: -511.432+/-1449.846 $\chi^2$/NDF:1.8/5

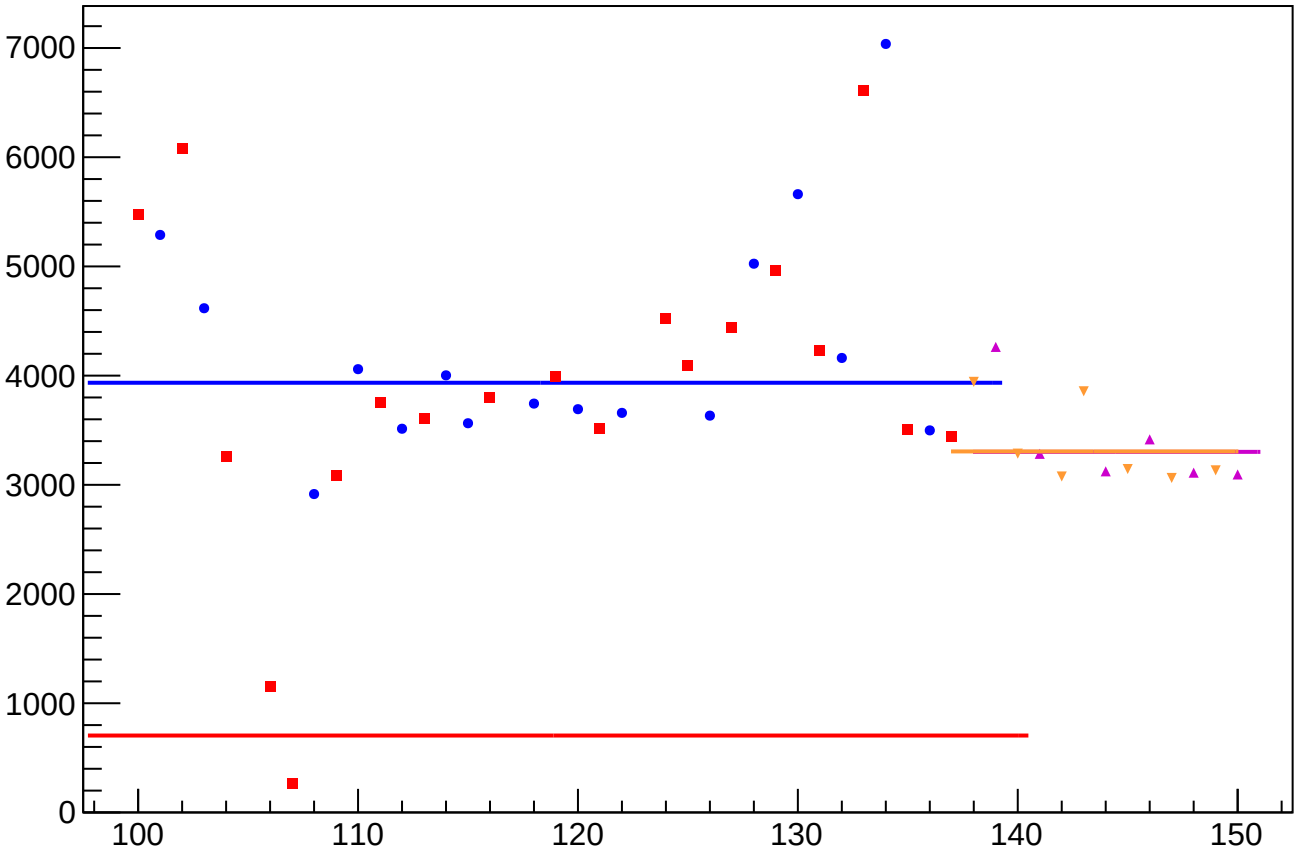
Left: -1748.029+/-1022.325 $\chi^2$/NDF: 7.6/12

Right: 184.938+/-479.263 $\chi^2$/NDF: 32.1/34

In: 302.133+/-1043.190 $\chi^2$/NDF:16.1/21

Out: -260.730+/-477.191 $\chi^2$/NDF:26.2/25

All: -163.333+/-433.945 $\chi^2$/NDF: 42.6/47




Right In: 3934.718+/-1.062 $\chi^2$/NDF: 560125.6/15

Left Out: 3305.909+/-1.019 $\chi^2$/NDF:97568.0/6

Right Out: 704.385+/-0.358 $\chi^2$/NDF: 10618643.5/18

Left In: 3301.920+/-1.025 $\chi^2$/NDF:108011.4/5

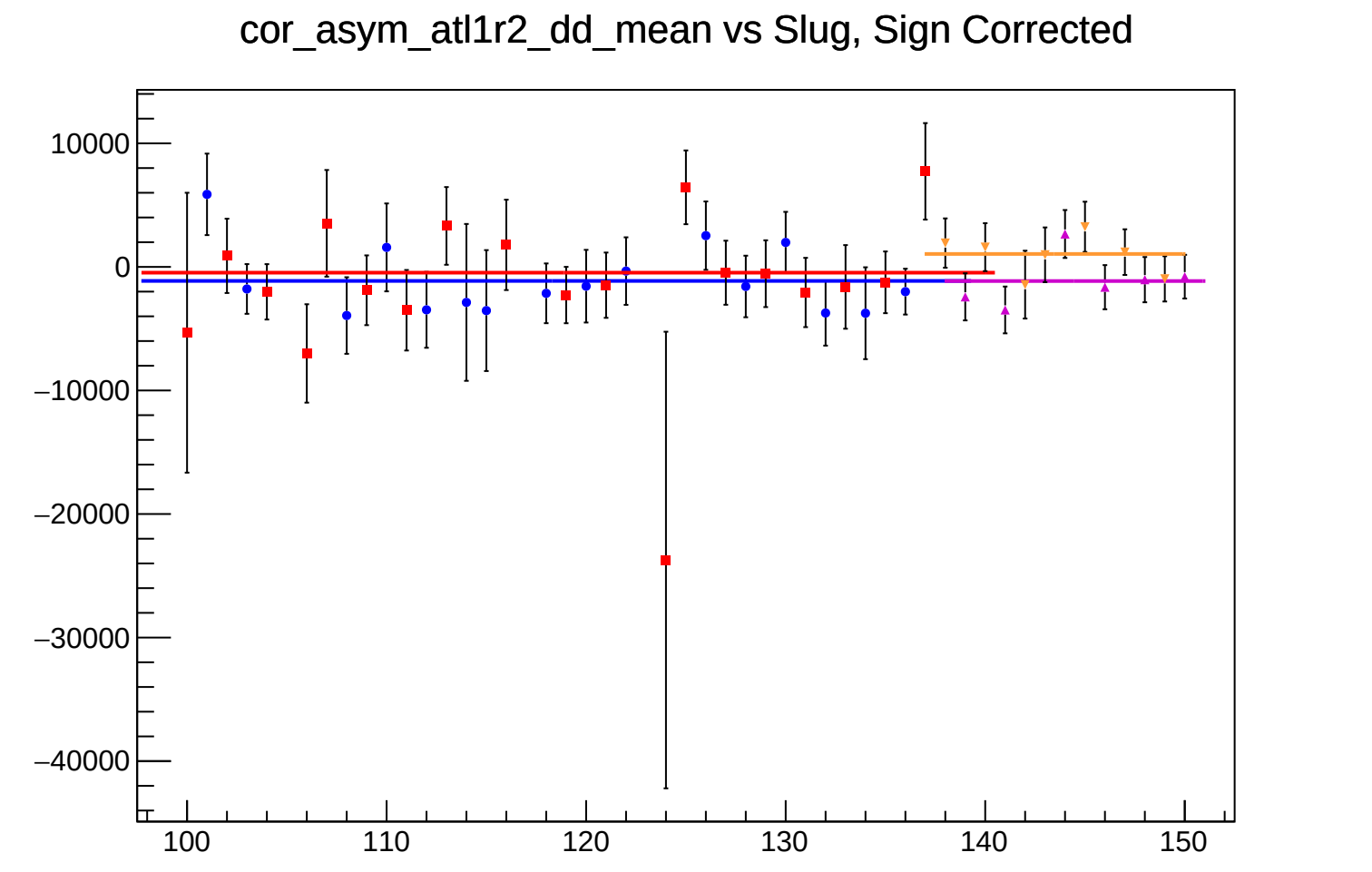
Left: 3303.926+/-0.723 $\chi^2$/NDF: 205587.0/12

Right: 1033.223+/-0.339 $\chi^2$/NDF: 19486549.2/34

In: 3607.115+/-0.738 $\chi^2$/NDF:851887.6/21

Out: 989.374+/-0.337 $\chi^2$/NDF:16514658.5/25

All: 1442.345+/-0.307 $\chi^2$/NDF: 27781128.0/4




Right In: -1134.203+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 1048.308+/-770.096 $\chi^2$/NDF:3.5/6

Right Out: -465.899+/-705.928 $\chi^2$/NDF: 20.0/18

Left In: -1143.853+/-755.668 $\chi^2$/NDF:6.0/5

Left: -68.499+/-539.367 $\chi^2$/NDF: 13.6/12

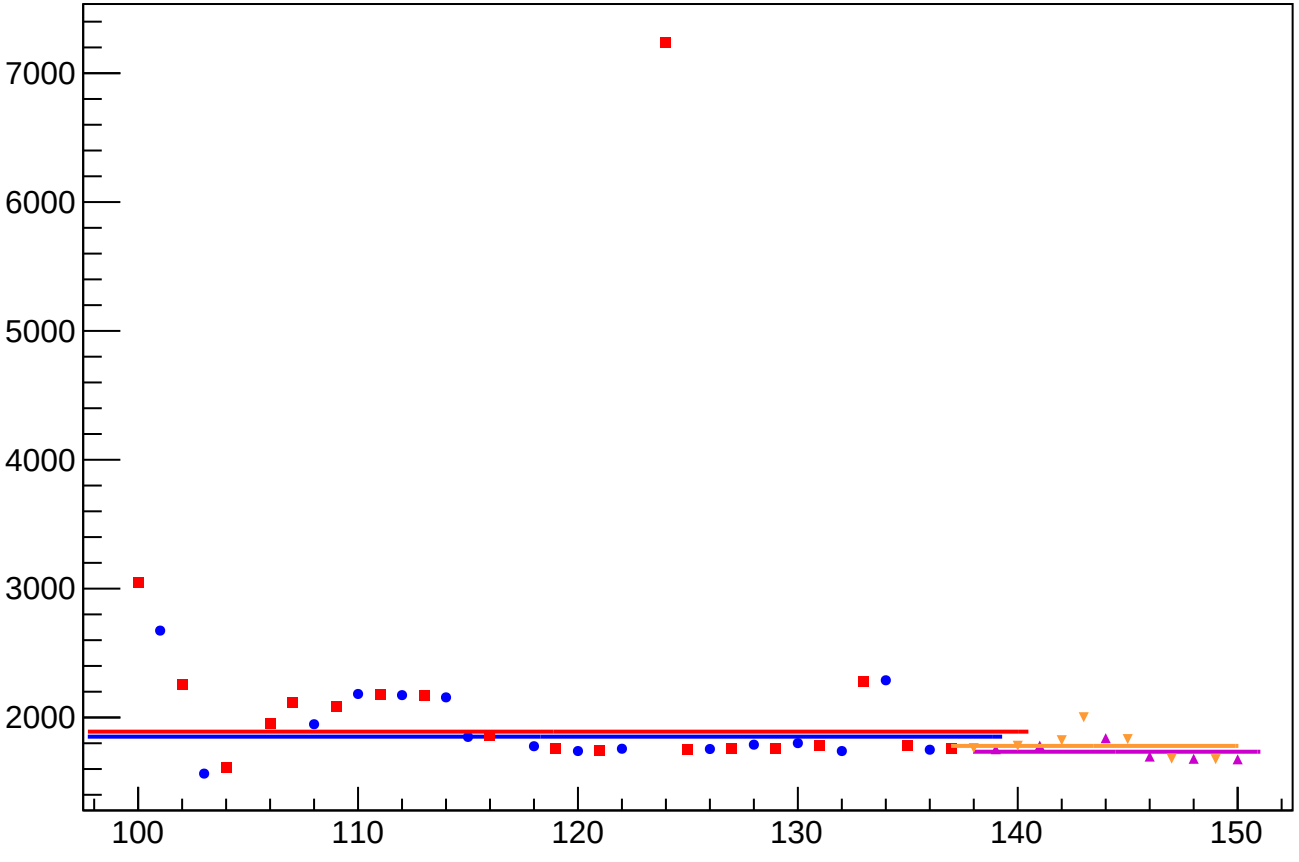
Right: -805.849+/-494.816 $\chi^2$/NDF: 32.7/34

In: -1138.617+/-511.058 $\chi^2$/NDF:18.2/21

Out: 225.501+/-520.375 $\chi^2$/NDF:25.6/25

All: -468.879+/-364.622 $\chi^2$/NDF: 47.3/47

# cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1779.434+/-0.545 $\chi^2$/NDF:34177.5/6

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1734.196+/-0.534 $\chi^2$/NDF:12193.2/5

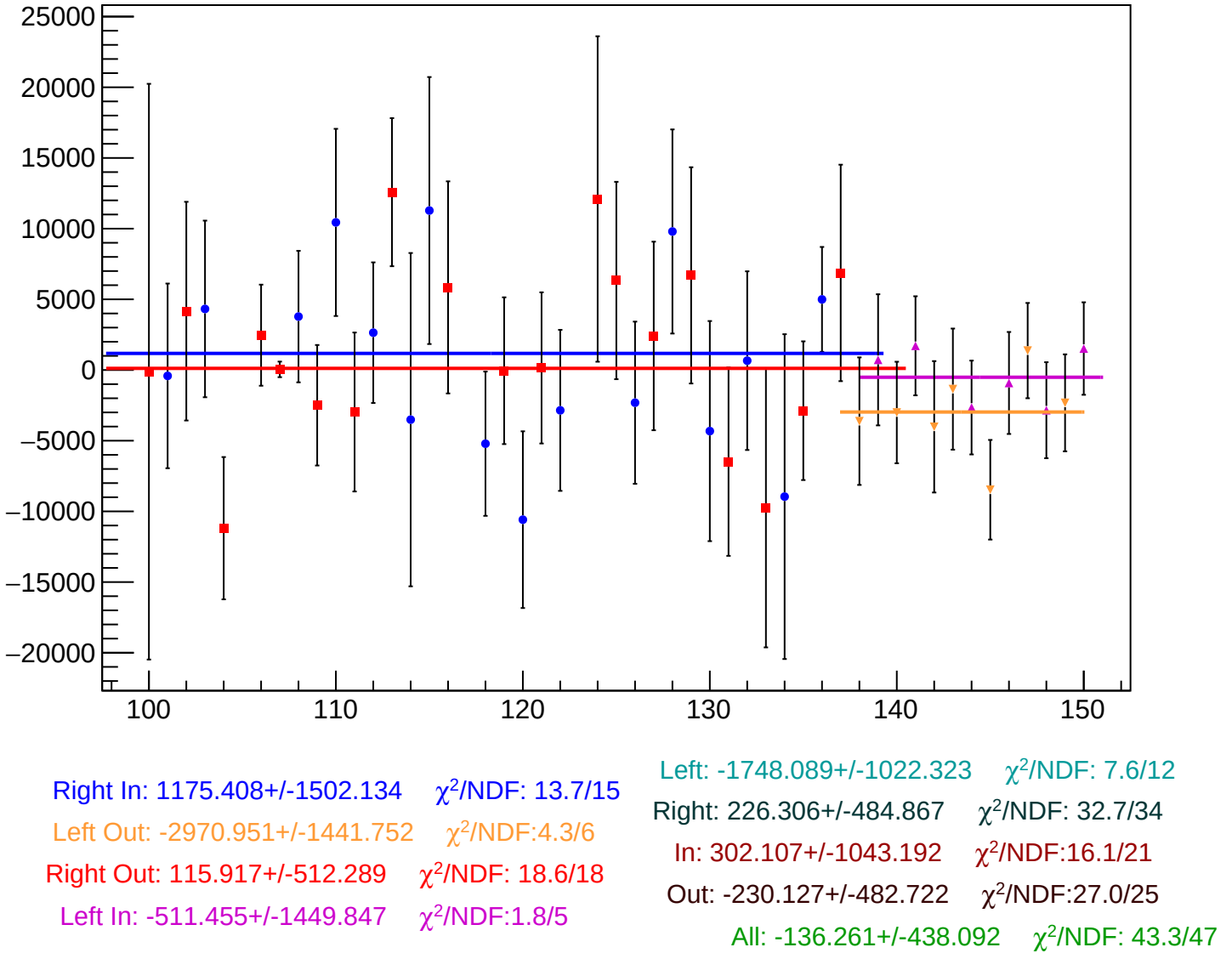
Left: 1756.387+/-0.381 $\chi^2$/NDF: 49886.7/12

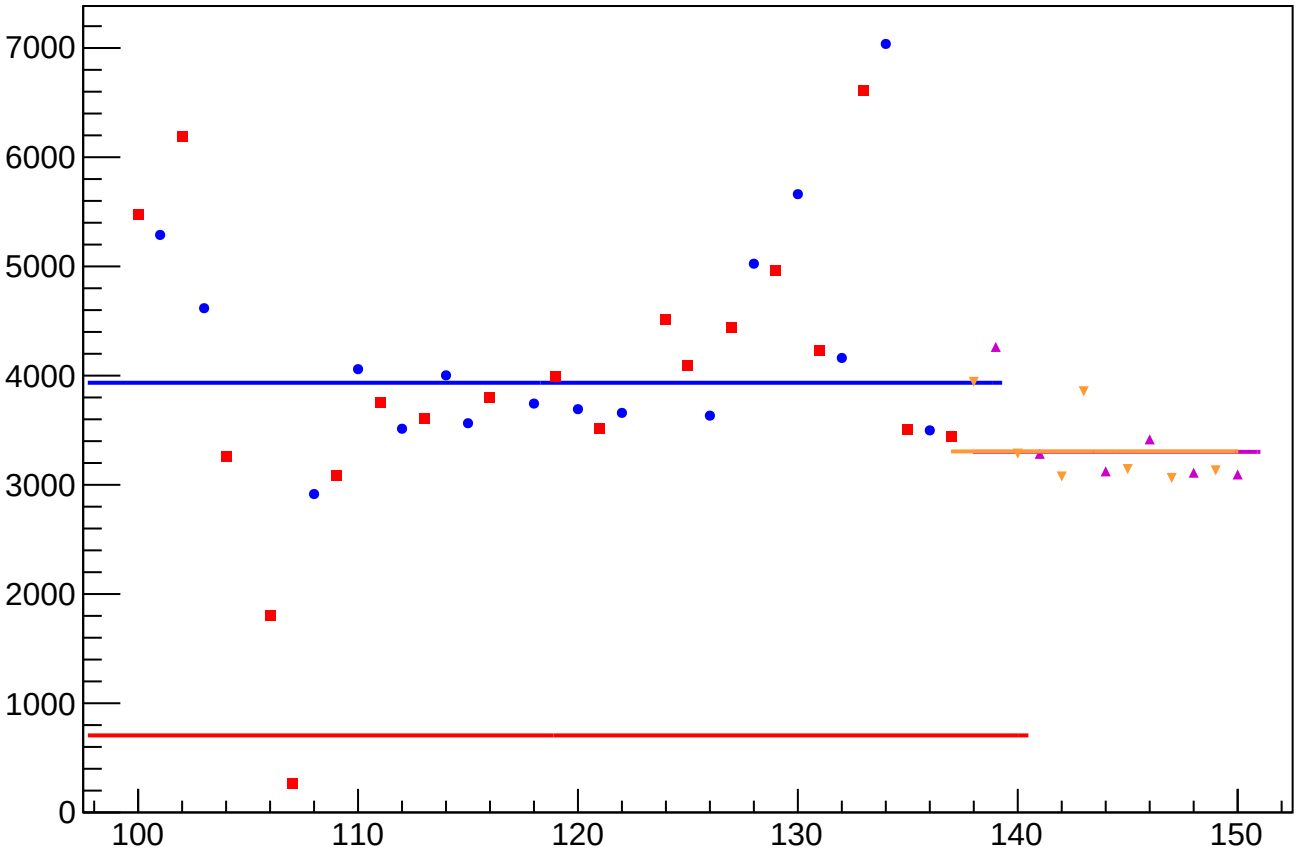
Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1797.647+/-0.361 $\chi^2$/NDF:298160.6/21

Out: 1839.622+/-0.368 $\chi^2$/NDF:415739.5/25

All: 1818.279+/-0.258 $\chi^2$/NDF: 720531.9/47


asym_atl1r2_dd_cor_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 1175.408+/-1502.134 χ²/NDF: 13.7/15
Left Out: -2970.951+/-1441.752 χ²/NDF:4.3/6
Right Out: 115.917+/-512.289 χ²/NDF: 18.6/18
Left In: -511.455+/-1449.847 χ²/NDF:1.8/5
Left: -1748.089+/-1022.323 χ²/NDF: 7.6/12
Right: 226.306+/-484.867 χ²/NDF: 32.7/34
In: 302.107+/-1043.192 χ²/NDF:16.1/21
Out: -230.127+/-482.722 χ²/NDF:27.0/25
All: -136.261+/-438.092 χ²/NDF: 43.3/47




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3305.893+/-1.019 $\chi^2$/NDF:97570.6/6

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3301.922+/-1.025 $\chi^2$/NDF:108010.9/5

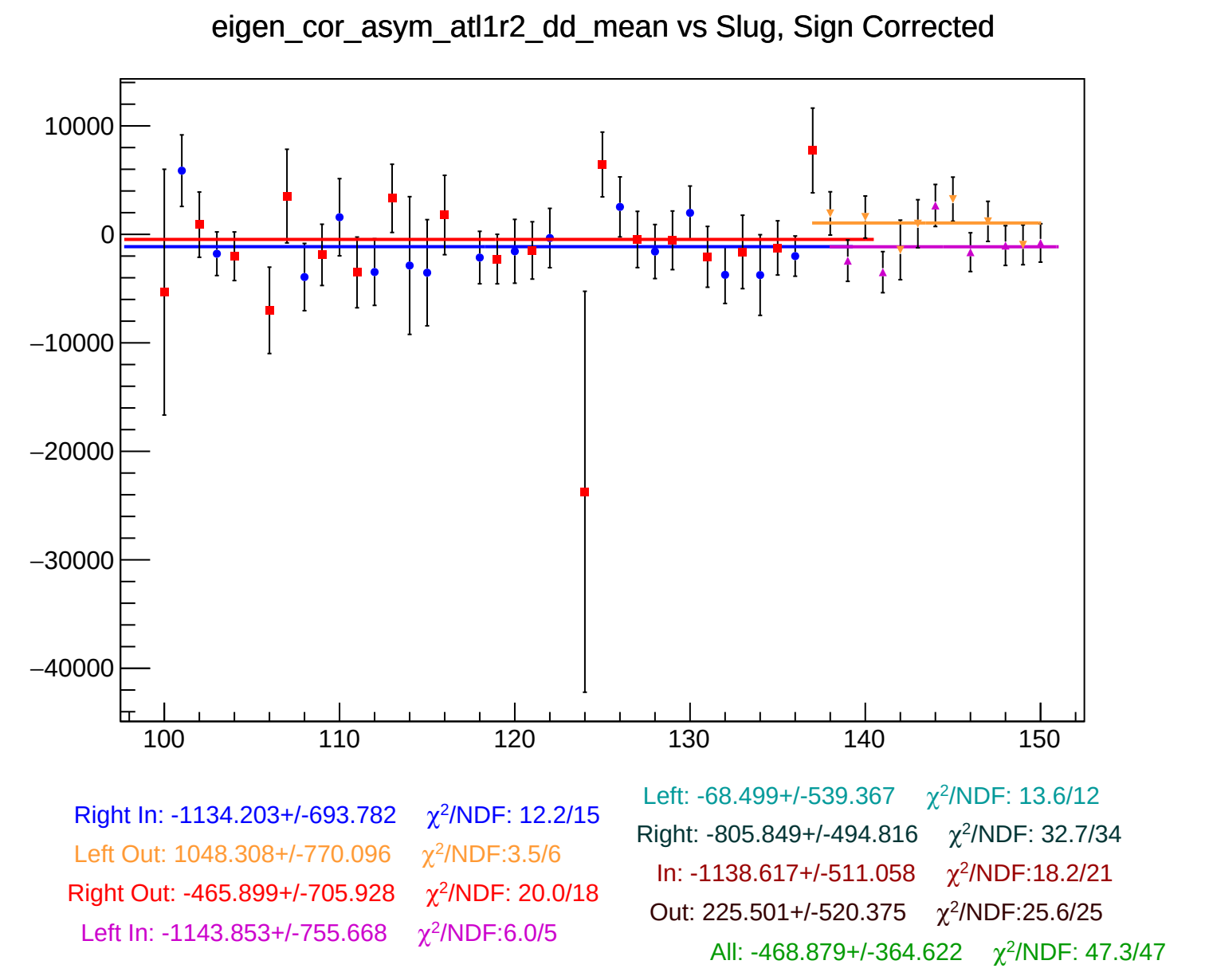
Left: 3303.919+/-0.723 $\chi^2$/NDF: 205589.0/12

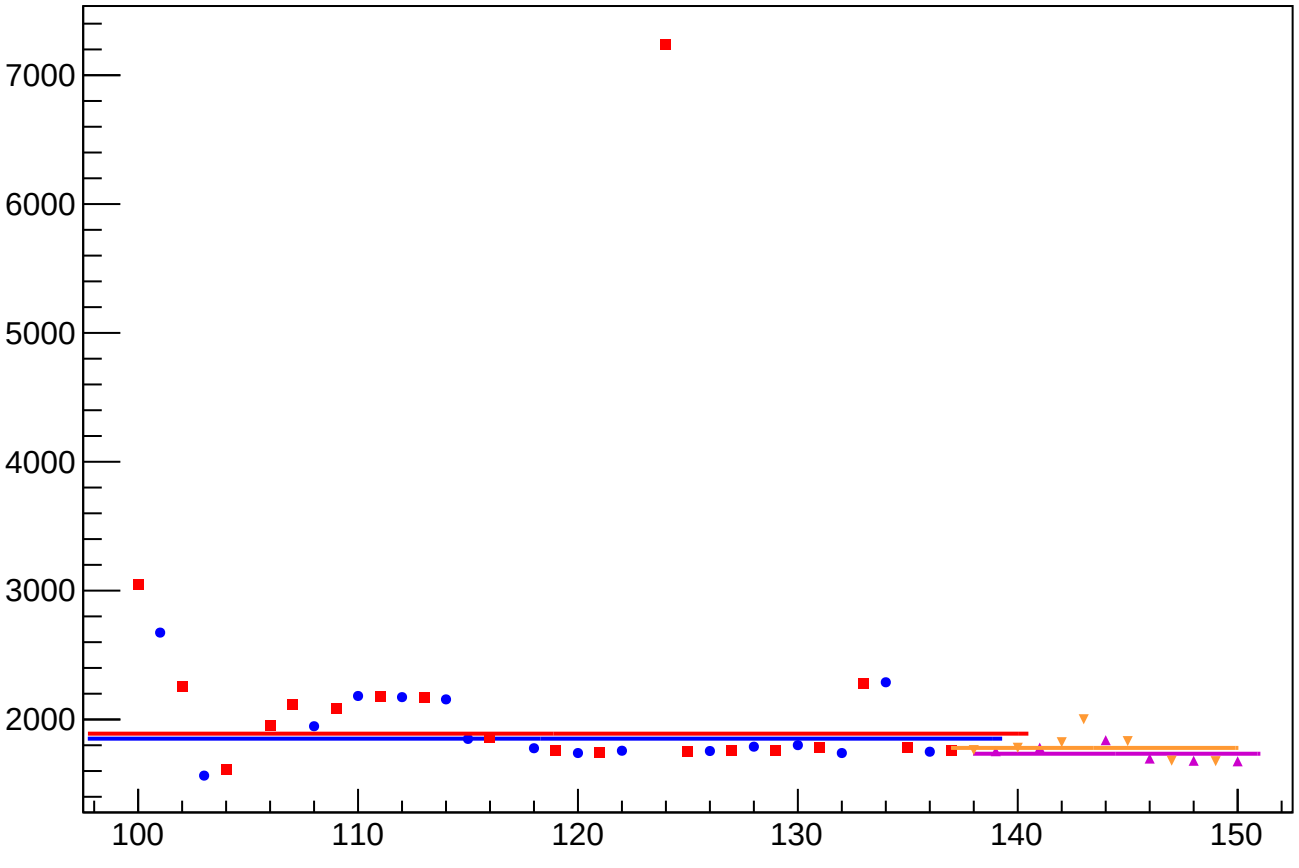
Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

In: 3607.119+/-0.738 $\chi^2$/NDF:851914.3/21

Out: 997.115+/-0.341 $\chi^2$/NDF:16621084.8/25

All: 1457.418+/-0.310 $\chi^2$/NDF: 27784479.4/4


eigen_cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: -1134.203+/-693.782 χ²/NDF: 12.2/15
Left Out: 1048.308+/-770.096 χ²/NDF:3.5/6
Right Out: -465.899+/-705.928 χ²/NDF: 20.0/18
Left In: -1143.853+/-755.668 χ²/NDF:6.0/5
Left: -68.499+/-539.367 χ²/NDF: 13.6/12
Right: -805.849+/-494.816 χ²/NDF: 32.7/34
In: -1138.617+/-511.058 χ²/NDF:18.2/21
Out: 225.501+/-520.375 χ²/NDF:25.6/25
All: -468.879+/-364.622 χ²/NDF: 47.3/47




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1779.434+/-0.545 $\chi^2$/NDF:34177.5/6

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1734.196+/-0.534 $\chi^2$/NDF:12193.2/5

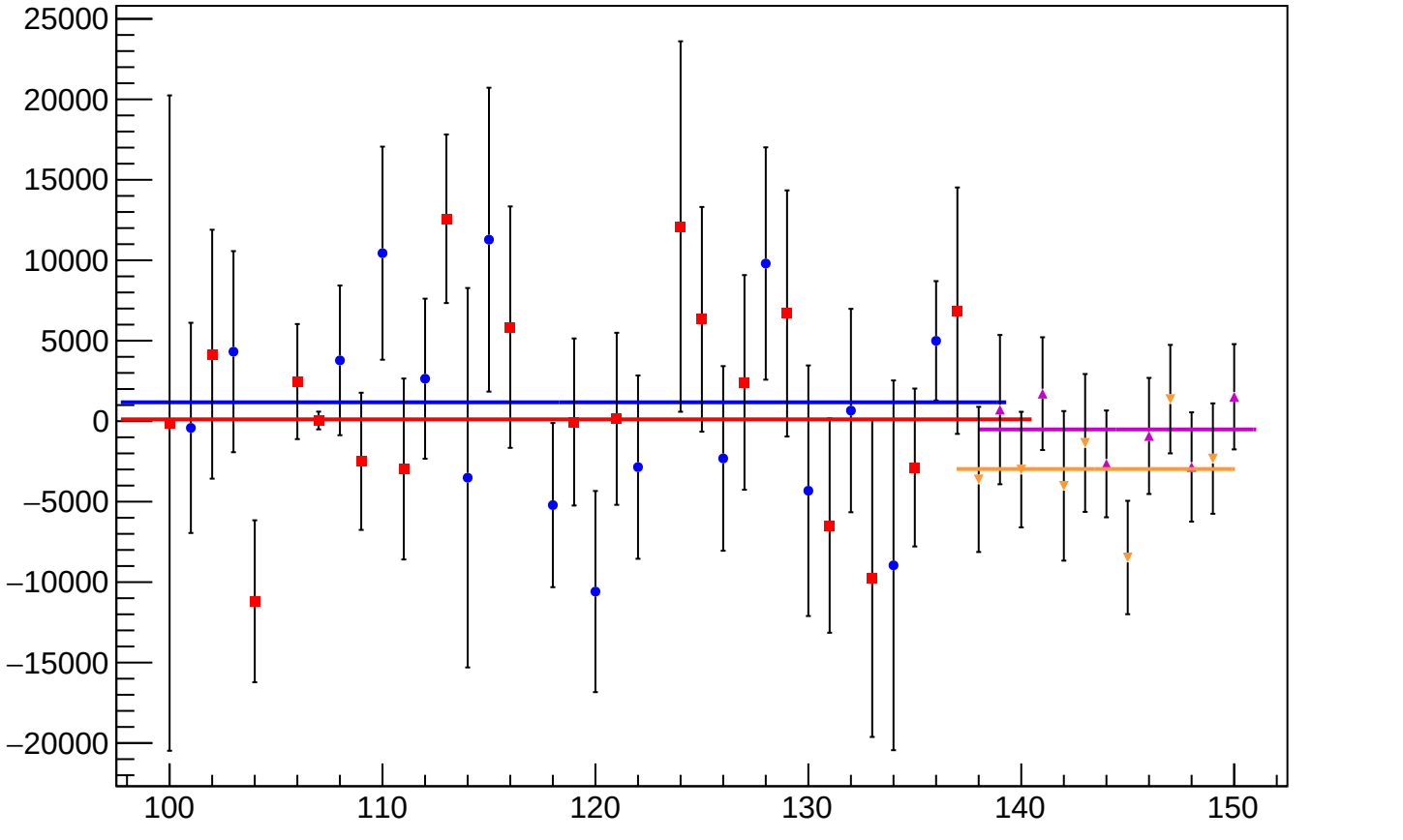
Left: 1756.387+/-0.381 $\chi^2$/NDF: 49886.7/12

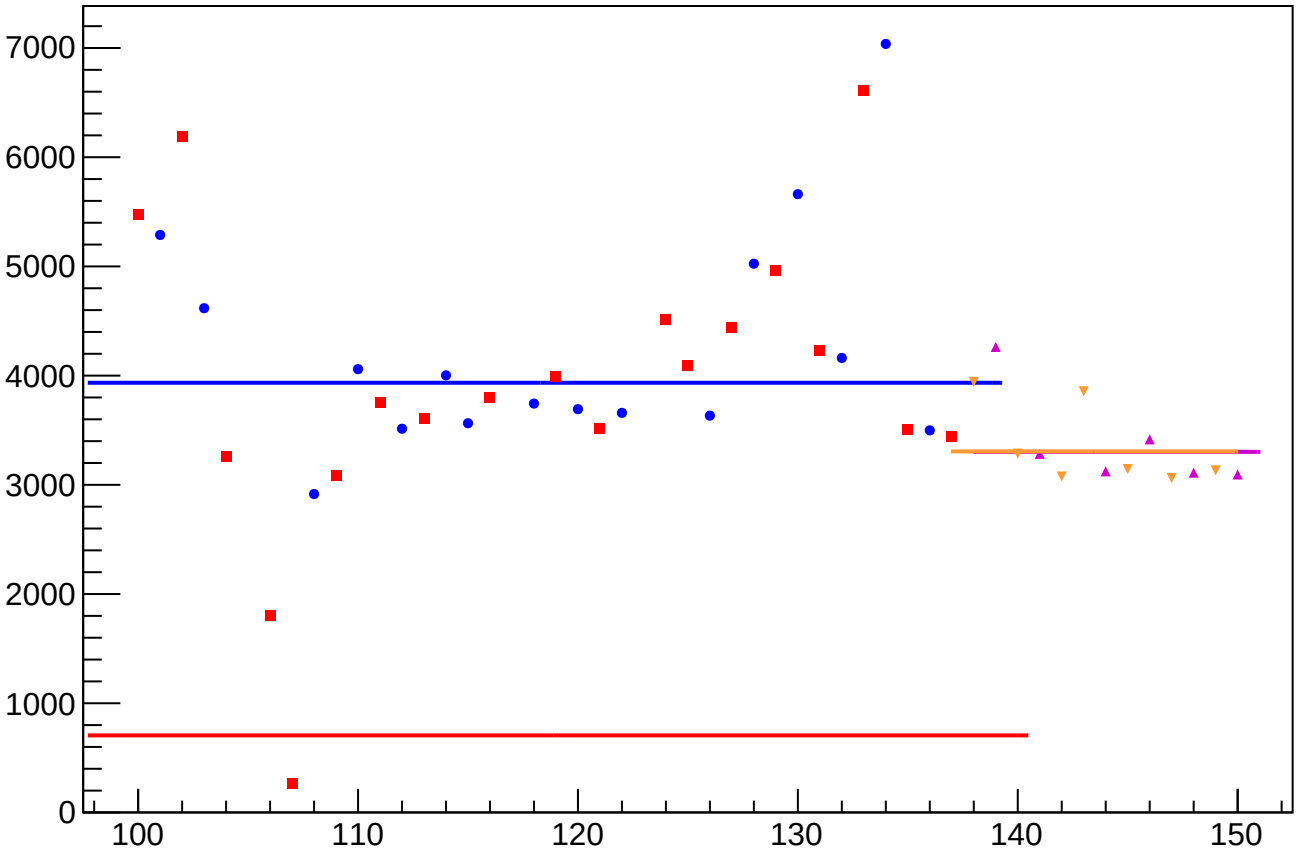
Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1797.647+/-0.361 $\chi^2$/NDF:298160.6/21

Out: 1839.622+/-0.368 $\chi^2$/NDF:415739.5/25

All: 1818.279+/-0.258 $\chi^2$/NDF: 720531.9/47


asym_atl1r2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 1175.408+/-1502.134 χ²/NDF: 13.7/15
Left Out: -2970.951+/-1441.752 χ²/NDF:4.3/6
Right Out: 115.917+/-512.289 χ²/NDF: 18.6/18
Left In: -511.455+/-1449.847 χ²/NDF:1.8/5
Left: -1748.089+/-1022.323 χ²/NDF: 7.6/12
Right: 226.306+/-484.867 χ²/NDF: 32.7/34
In: 302.107+/-1043.192 χ²/NDF:16.1/21
Out: -230.127+/-482.722 χ²/NDF:27.0/25
All: -136.261+/-438.092 χ²/NDF: 43.3/47




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3305.893+/-1.019 $\chi^2$/NDF:97570.6/6

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3301.922+/-1.025 $\chi^2$/NDF:108010.9/5

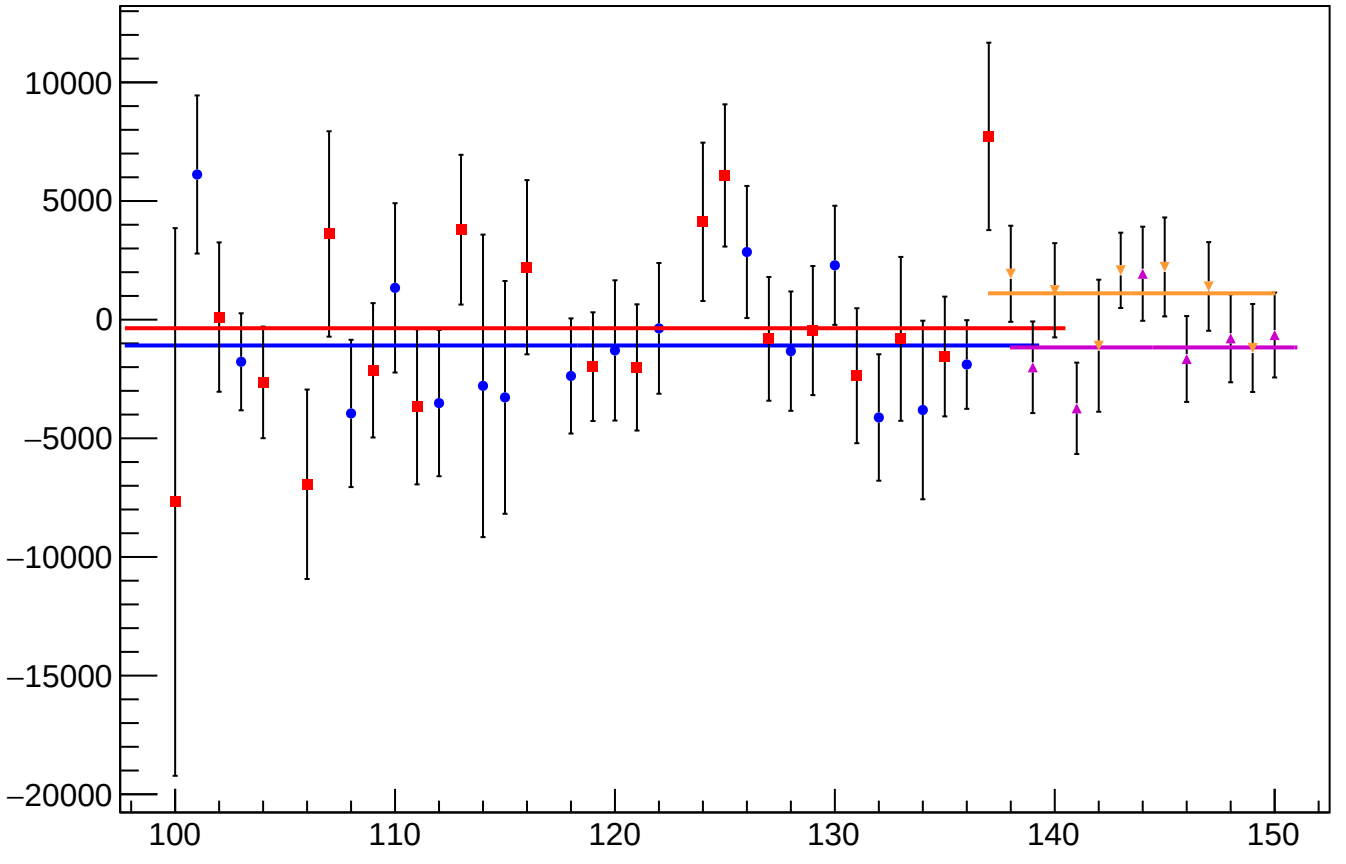
Left: 3303.919+/-0.723 $\chi^2$/NDF: 205589.0/12

Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

In: 3607.119+/-0.738 $\chi^2$/NDF:851914.3/21

Out: 997.115+/-0.341 $\chi^2$/NDF:16621084.8/25

All: 1457.418+/-0.310 $\chi^2$/NDF: 27784479.4/4




Right In: -1087.731+/-699.579 $\chi^2$/NDF: 13.2/15

Left Out: 1110.556+/-739.064 $\chi^2$/NDF:3.0/6

Right Out: -361.218+/-699.665 $\chi^2$/NDF: 20.8/18

Left In: -1169.912+/-766.790 $\chi^2$/NDF:4.6/5

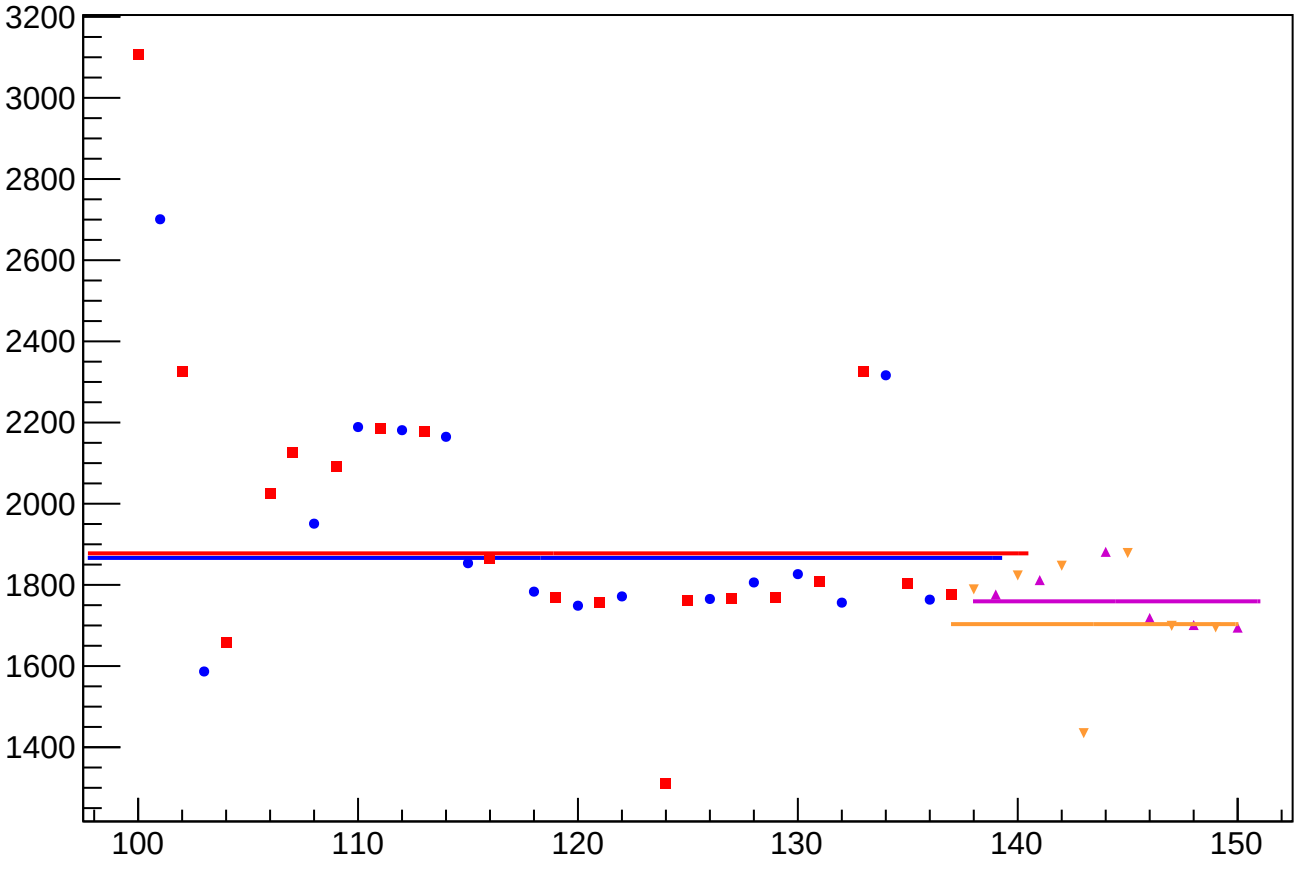
Left: 12.295+/-532.129 $\chi^2$/NDF: 12.2/12

Right: -724.519+/-494.707 $\chi^2$/NDF: 34.5/34

In: -1125.063+/-516.808 $\chi^2$/NDF:17.8/21

Out: 334.395+/-508.096 $\chi^2$/NDF:25.9/25

All: -382.929+/-362.319 $\chi^2$/NDF: 47.8/47




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.4/15

Left Out: 1703.325+/-0.523 $\chi^2$/NDF:87658.6/6

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.5/18

Left In: 1759.464+/-0.542 $\chi^2$/NDF:14823.7/5

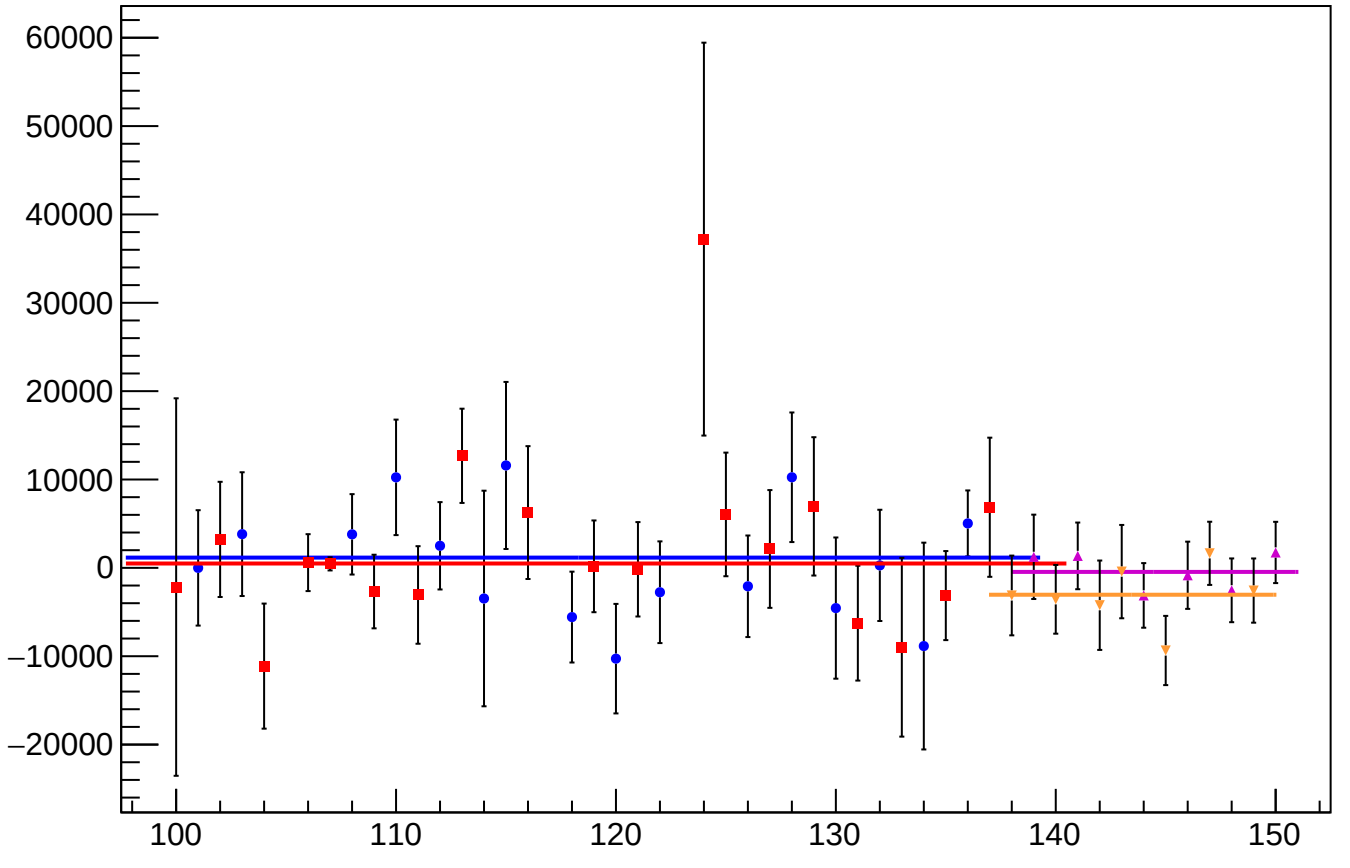
Left: 1730.361+/-0.376 $\chi^2$/NDF: 108039.6/12

Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.5/34

In: 1817.853+/-0.365 $\chi^2$/NDF:292336.4/21

Out: 1795.334+/-0.359 $\chi^2$/NDF:398241.5/25

All: 1806.398+/-0.256 $\chi^2$/NDF: 692509.6/47




Right In: 1161.124+/-1512.225 $\chi^2$/NDF: 13.7/15

Left Out: -3041.050+/-1563.097 $\chi^2$/NDF:4.6/6

Right Out: 492.907+/-658.510 $\chi^2$/NDF: 16.9/18

Left In: -457.771+/-1546.618 $\chi^2$/NDF:1.6/5

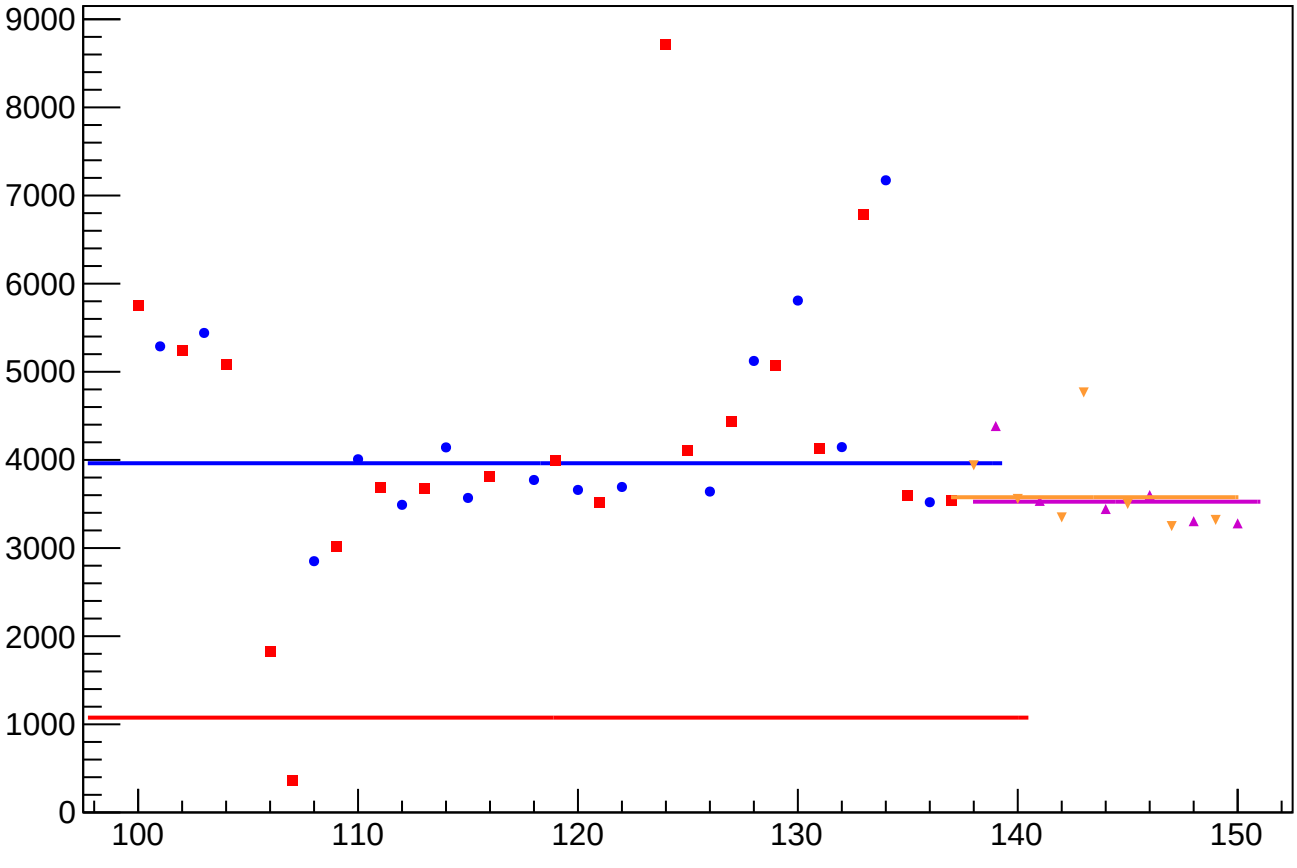
Left: -1735.721+/-1099.404 $\chi^2$/NDF: 7.7/12

Right: 599.419+/-603.751 $\chi^2$/NDF: 30.8/34

In: 369.877+/-1081.259 $\chi^2$/NDF:15.8/21

Out: -39.766+/-606.856 $\chi^2$/NDF:25.9/25

All: 58.362+/-529.203 $\chi^2$/NDF: 41.9/47




Right In: 3962.368+/-1.069 $\chi^2$/NDF: 668339.6/15

Left Out: 3576.735+/-1.105 $\chi^2$/NDF:146003.2/6

Right Out: 1075.957+/-0.466 $\chi^2$/NDF: 9558372.9/18

Left In: 3526.004+/-1.094 $\chi^2$/NDF:84062.3/5

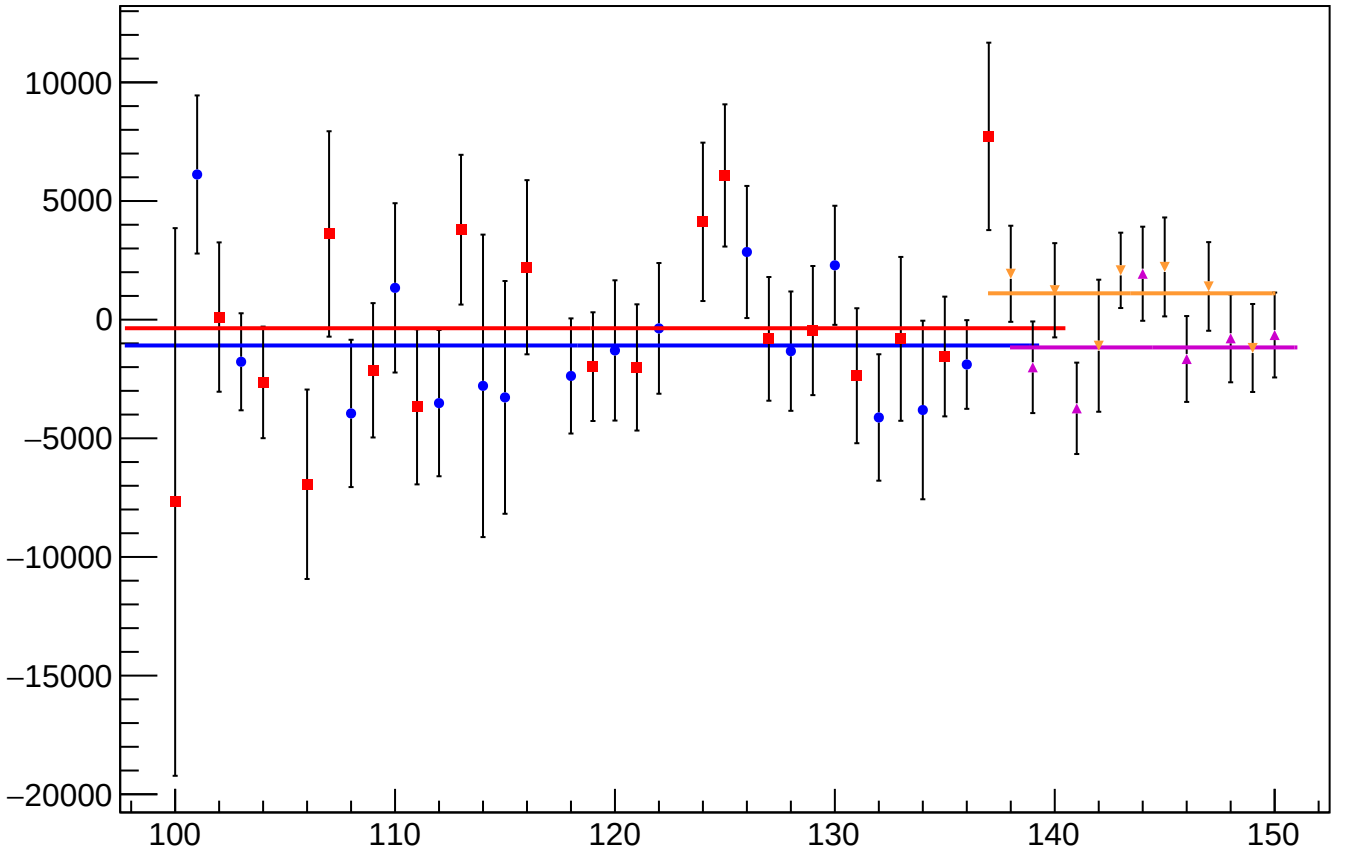
Left: 3551.101+/-0.777 $\chi^2$/NDF: 231130.0/12

Right: 1536.045+/-0.427 $\chi^2$/NDF: 16351680.6/34

In: 3749.092+/-0.765 $\chi^2$/NDF:833795.0/21

Out: 1452.899+/-0.429 $\chi^2$/NDF:14052021.0/25

All: 2002.938+/-0.374 $\chi^2$/NDF: 21744820.6/4




Right In: -1087.736+/-699.579 $\chi^2$/NDF: 13.2/15

Left Out: 1110.548+/-739.065 $\chi^2$/NDF:3.0/6

Right Out: -361.223+/-699.665 $\chi^2$/NDF: 20.8/18

Left In: -1169.910+/-766.790 $\chi^2$/NDF:4.6/5

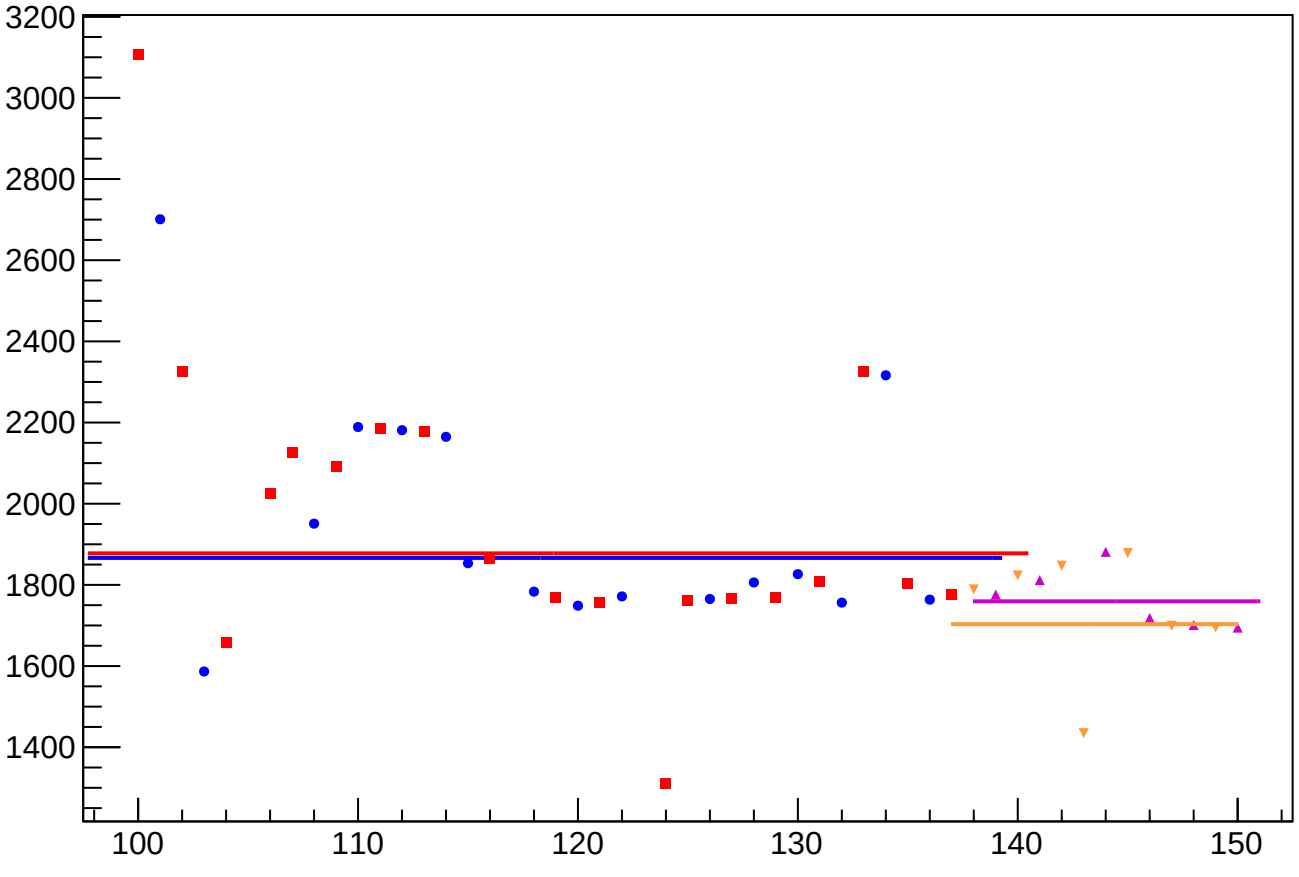
Left: 12.291+/-532.129 $\chi^2$/NDF: 12.2/12

Right: -724.524+/-494.707 $\chi^2$/NDF: 34.5/34

In: -1125.064+/-516.808 $\chi^2$/NDF:17.8/21

Out: 334.388+/-508.096 $\chi^2$/NDF:25.9/25

All: -382.933+/-362.319 $\chi^2$/NDF: 47.8/47




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.3/15

Left Out: 1703.326+/-0.523 $\chi^2$/NDF:87657.7/6

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.8/18

Left In: 1759.464+/-0.542 $\chi^2$/NDF:14823.6/5

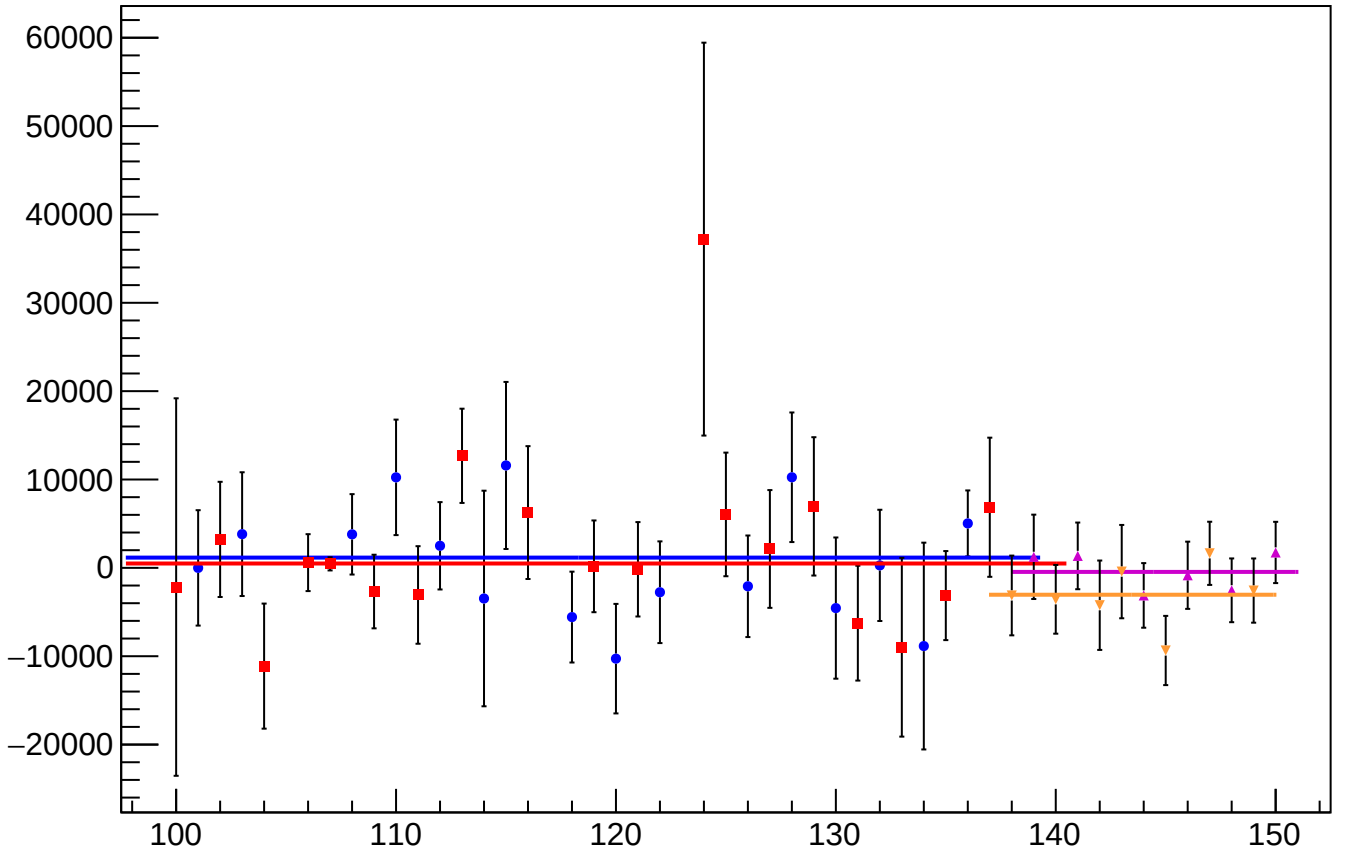
Left: 1730.362+/-0.376 $\chi^2$/NDF: 108038.5/12

Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.7/34

In: 1817.854+/-0.365 $\chi^2$/NDF:292335.9/21

Out: 1795.335+/-0.359 $\chi^2$/NDF:398240.1/25

All: 1806.398+/-0.256 $\chi^2$/NDF: 692507.7/47




Right In: 1161.104+/-1512.222 $\chi^2$/NDF: 13.7/15

Left Out: -3041.055+/-1563.099 $\chi^2$/NDF:4.6/6

Right Out: 492.914+/-658.521 $\chi^2$/NDF: 16.9/18

Left In: -457.767+/-1546.620 $\chi^2$/NDF:1.6/5

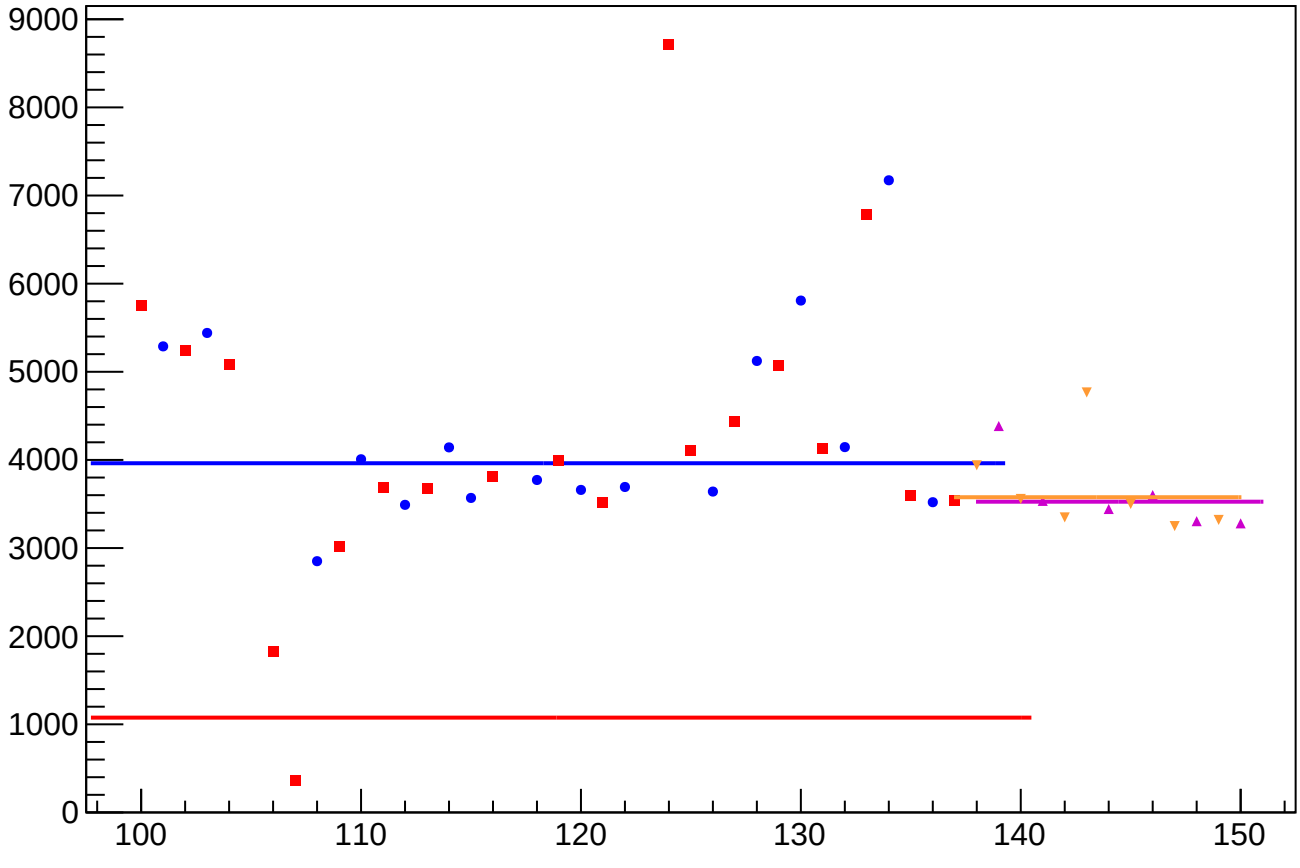
Left: -1735.722+/-1099.405 $\chi^2$/NDF: 7.7/12

Right: 599.426+/-603.759 $\chi^2$/NDF: 30.8/34

In: 369.871+/-1081.259 $\chi^2$/NDF:15.8/21

Out: -39.774+/-606.864 $\chi^2$/NDF:25.9/25

All: 58.356+/-529.209 $\chi^2$/NDF: 41.9/47




Right In: 3962.361+/-1.069 $\chi^2$/NDF: 668335.9/15

Left Out: 3576.739+/-1.105 $\chi^2$/NDF:146001.5/6

Right Out: 1075.988+/-0.466 $\chi^2$/NDF: 9558243.3/18

Left In: 3526.009+/-1.094 $\chi^2$/NDF:84062.6/5

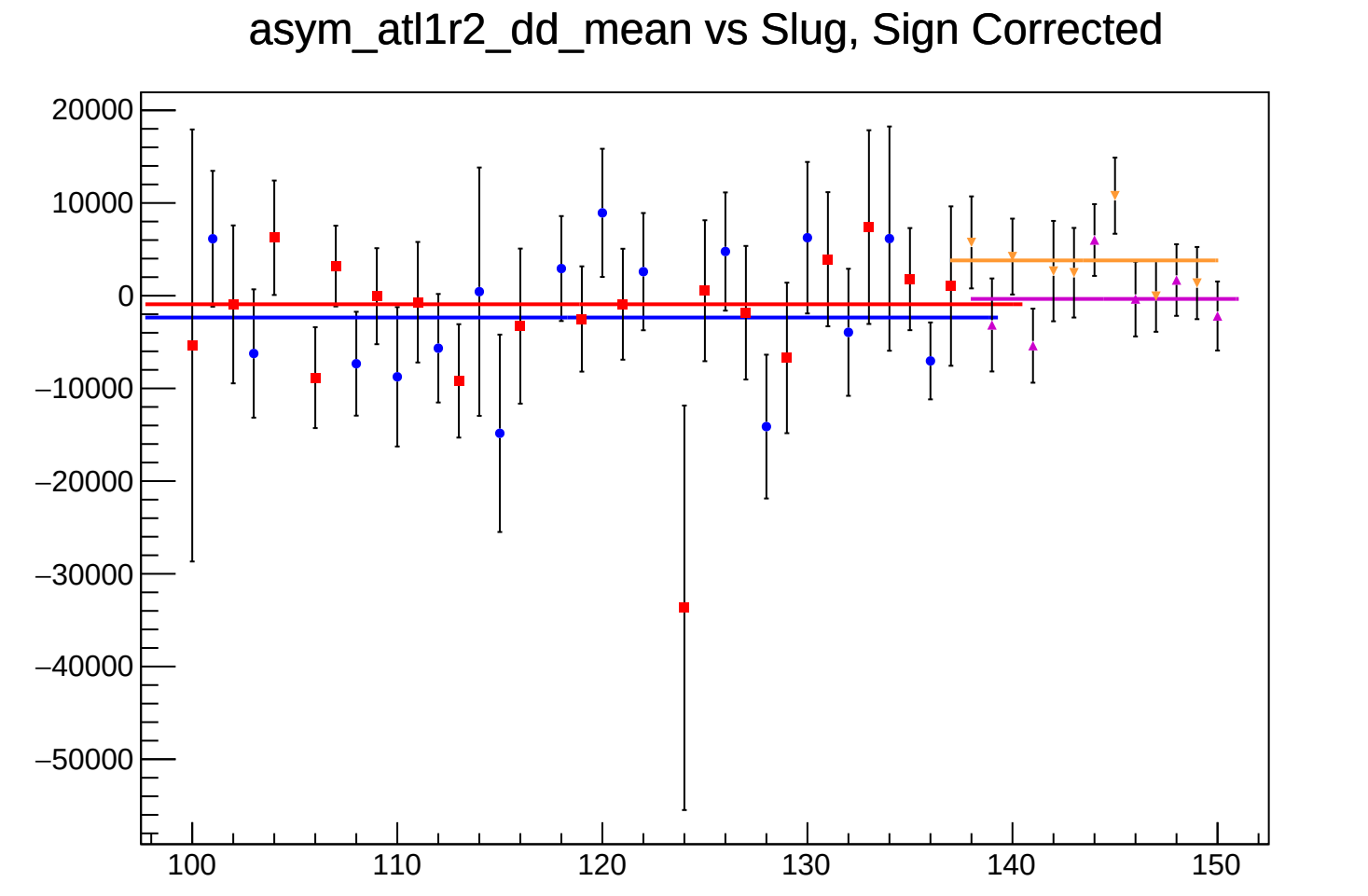
Left: 3551.105+/-0.777 $\chi^2$/NDF: 231128.6/12

Right: 1536.084+/-0.427 $\chi^2$/NDF: 16351375.7/34

In: 3749.092+/-0.765 $\chi^2$/NDF:833787.5/21

Out: 1452.935+/-0.429 $\chi^2$/NDF:14051767.3/25

All: 2002.978+/-0.374 $\chi^2$/NDF: 21744295.8/4




Right In: -2354.851+/-1684.784 $\chi^2$/NDF: 15.5/15

Left Out: 3804.323+/-1643.586 $\chi^2$/NDF:4.6/6

Right Out: -924.896+/-1546.889 $\chi^2$/NDF: 10.6/18

Left In: -348.708+/-1644.086 $\chi^2$/NDF:5.1/5

Left: 1728.439+/-1162.368 $\chi^2$/NDF: 12.9/12

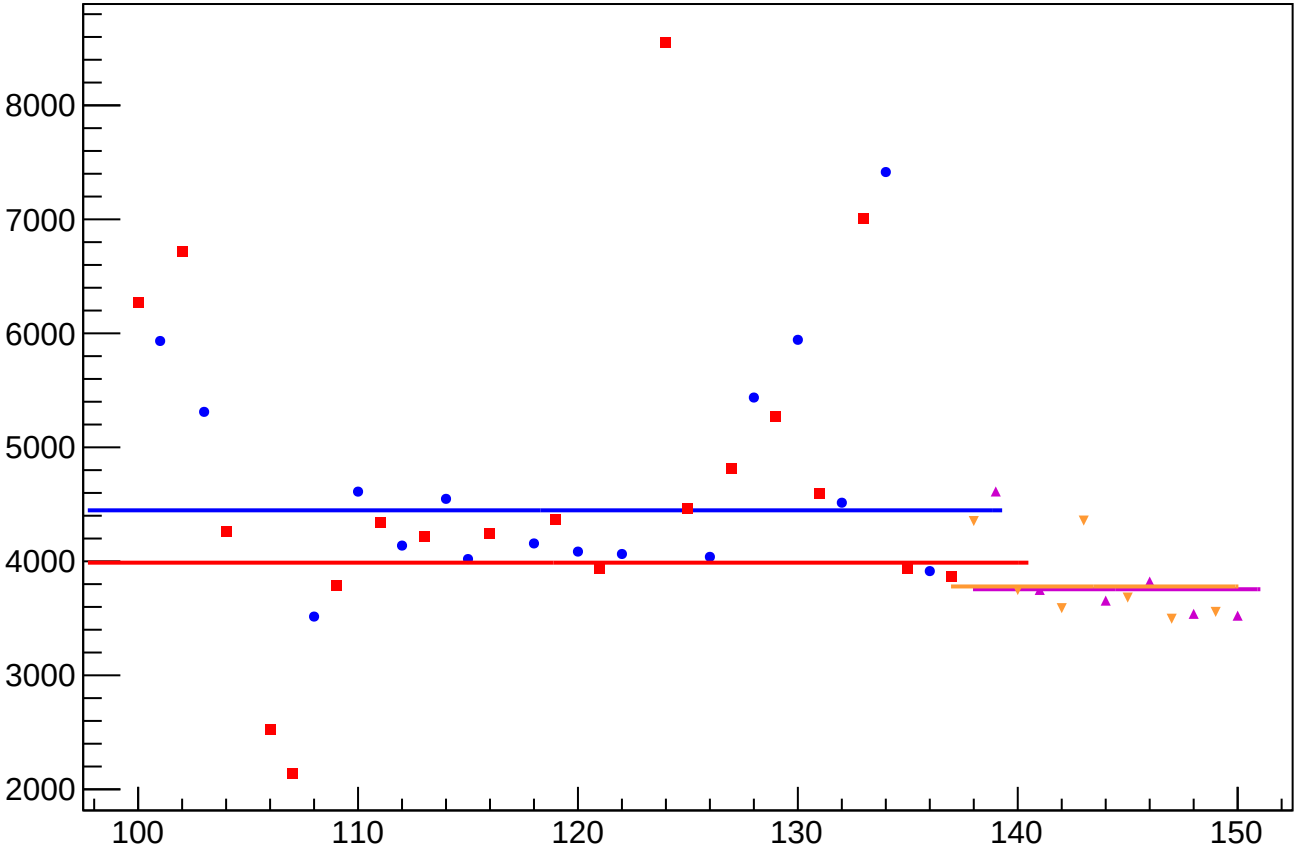
Right: -1578.969+/-1139.452 $\chi^2$/NDF: 26.5/34

In: -1327.257+/-1176.670 $\chi^2$/NDF:21.4/21

Out: 1296.512+/-1126.450 $\chi^2$/NDF:19.6/25

All: 41.812+/-813.695 $\chi^2$/NDF: 43.6/47

# asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 4447.424+/-1.191 $\chi^2$/NDF: 458251.2/15

Left Out: 3779.470+/-1.162 $\chi^2$/NDF:76450.9/6

Right Out: 3988.249+/-1.083 $\chi^2$/NDF: 1143932.4/18

Left In: 3755.159+/-1.163 $\chi^2$/NDF:74345.9/5

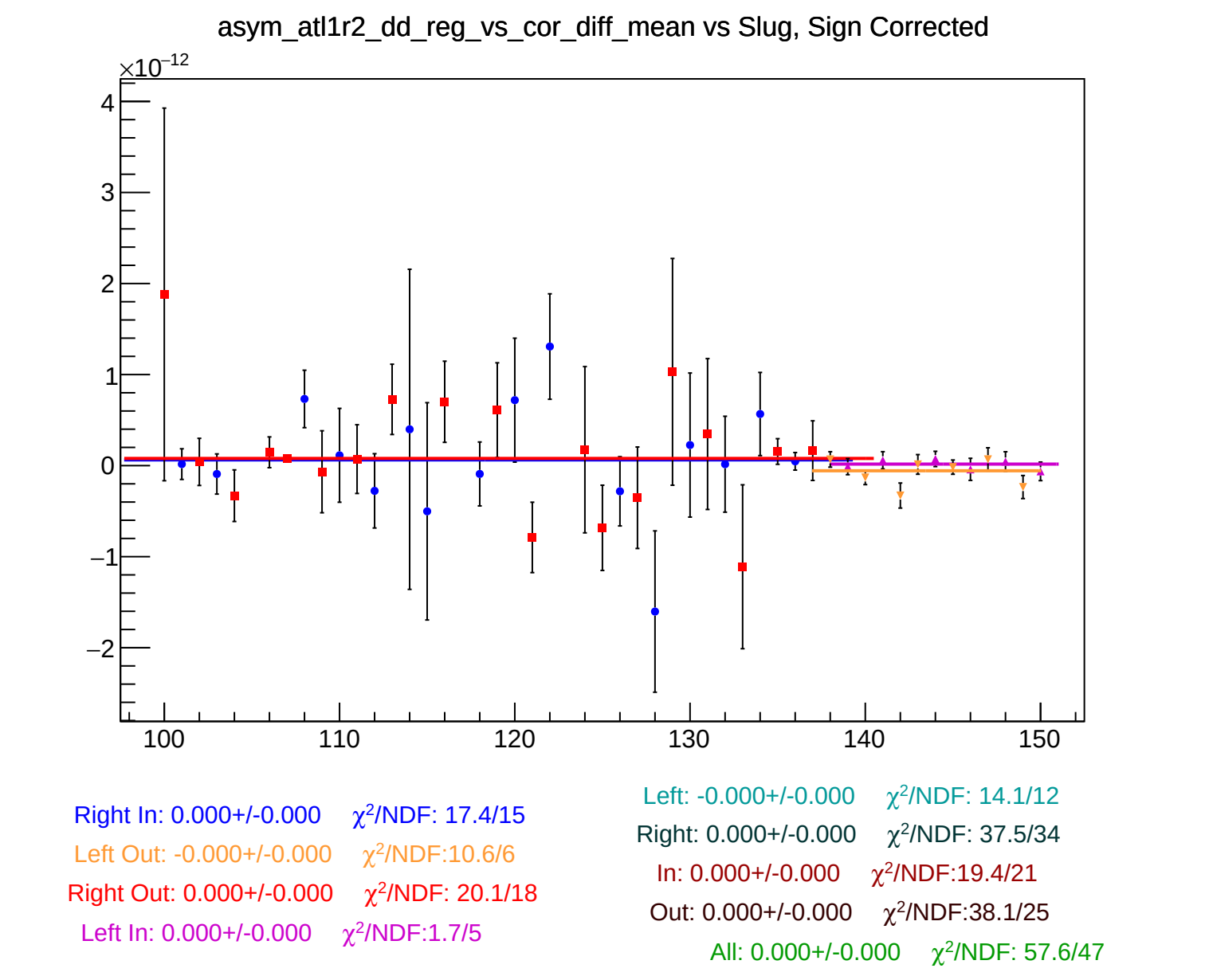
Left: 3767.319+/-0.822 $\chi^2$/NDF: 151015.6/12

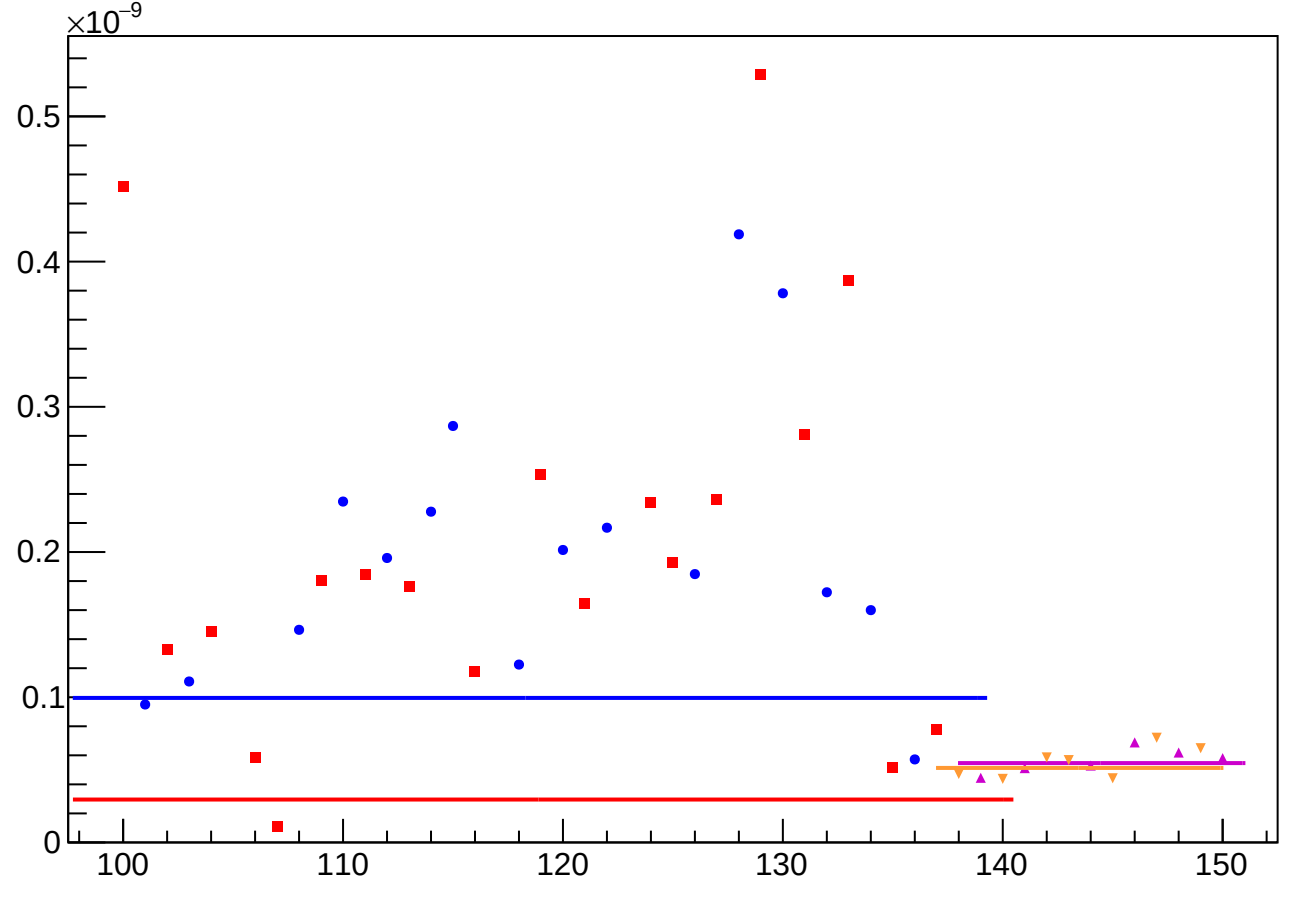
Right: 4196.010+/-0.801 $\chi^2$/NDF: 1683524.5/34

In: 4092.829+/-0.832 $\chi^2$/NDF:705556.9/21

Out: 3891.217+/-0.792 $\chi^2$/NDF:1237656.2/25

All: 3987.095+/-0.574 $\chi^2$/NDF: 1974006.2/47


asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 17.4/15
Left Out: -0.000+/-0.000 χ²/NDF:10.6/6
Right Out: 0.000+/-0.000 χ²/NDF: 20.1/18
Left In: 0.000+/-0.000 χ²/NDF:1.7/5
Left: -0.000+/-0.000 χ²/NDF: 14.1/12
Right: 0.000+/-0.000 χ²/NDF: 37.5/34
In: 0.000+/-0.000 χ²/NDF:19.4/21
Out: 0.000+/-0.000 χ²/NDF:38.1/25
All: 0.000+/-0.000 χ²/NDF: 57.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1562904.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:126933.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4363474.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:68681.8/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 203153.9/12

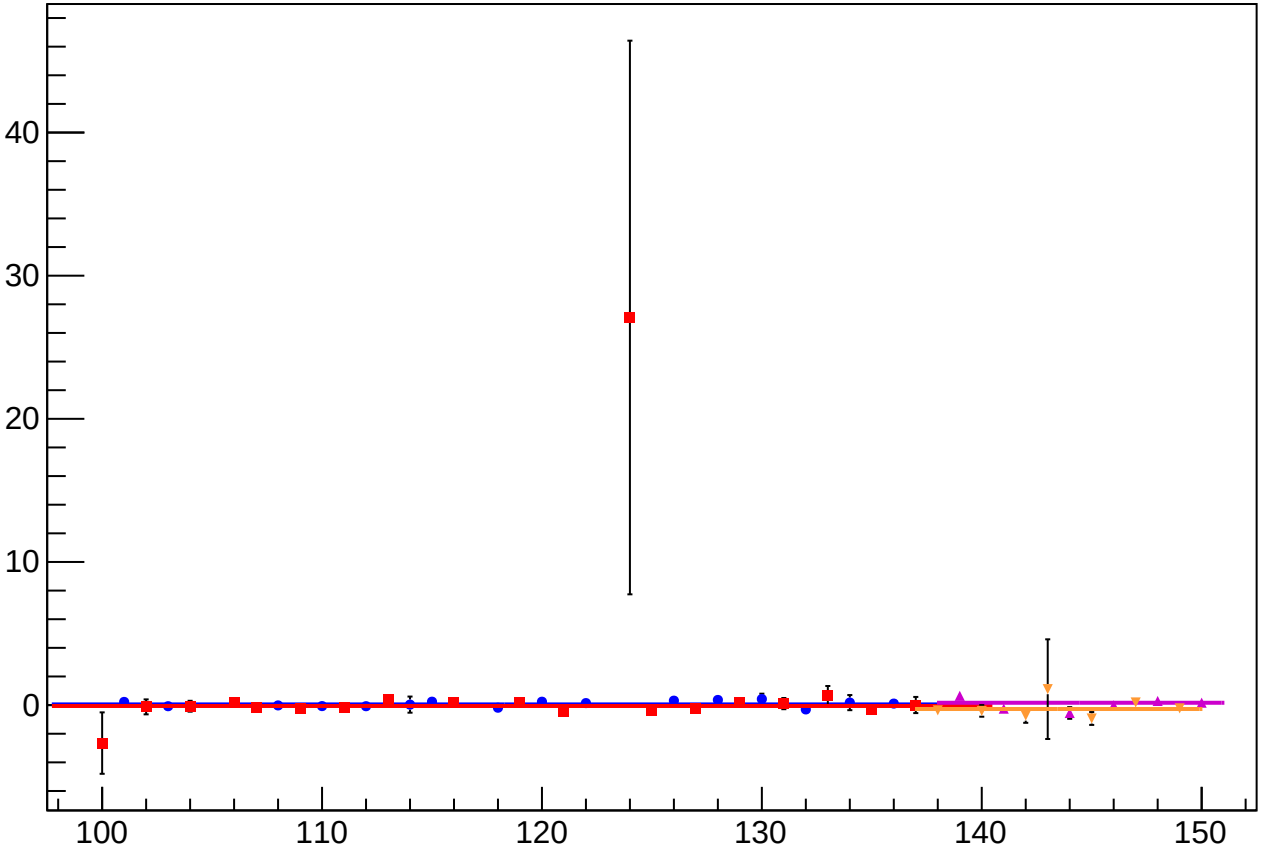
Right: 0.000+/-0.000 $\chi^2$/NDF: 7631581.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2279599.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4872612.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7953423.7/47

asym_atl1r2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.272+/-0.138 $\chi^2$/NDF:6.2/6

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.164+/-0.118 $\chi^2$/NDF:9.3/5

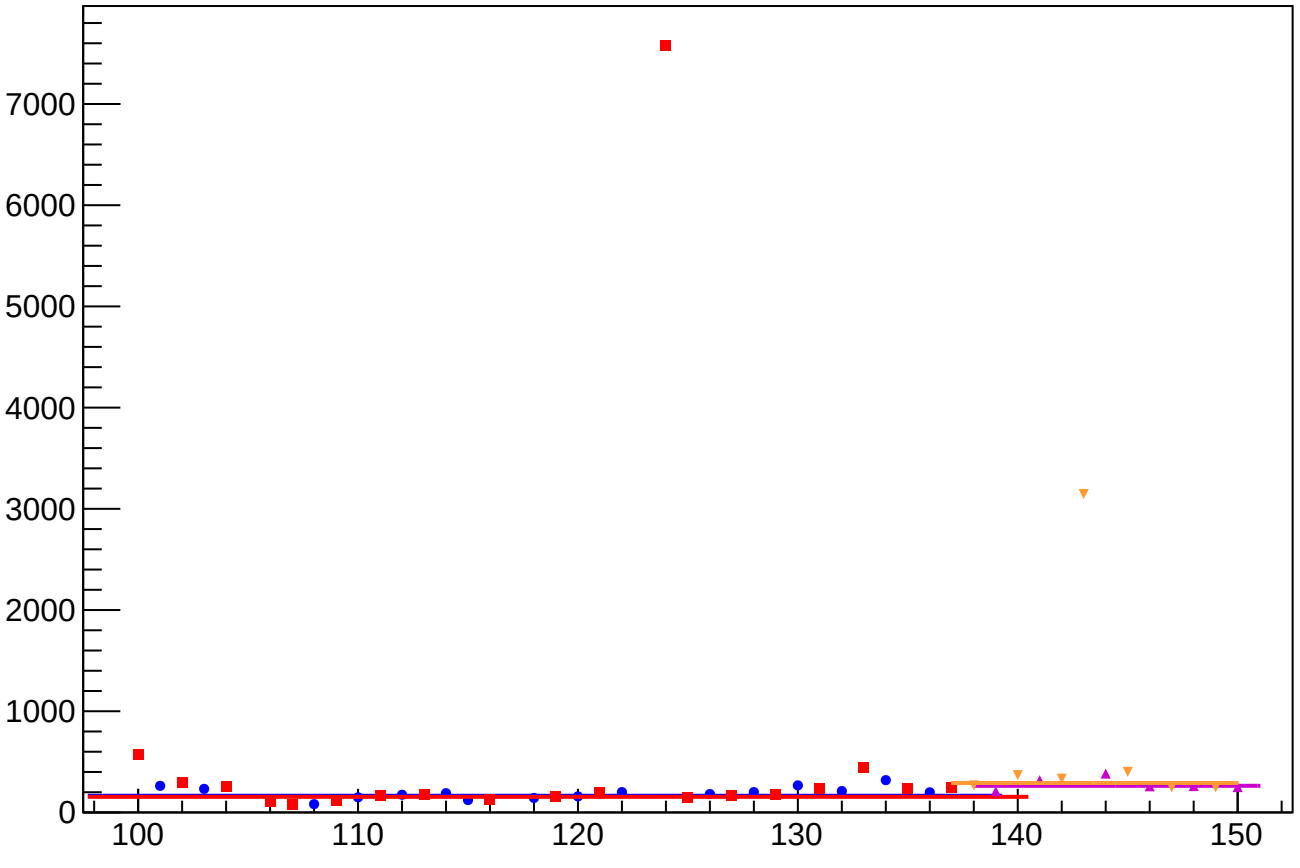
Left: -0.020+/-0.090 $\chi^2$/NDF: 21.2/12

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.058 $\chi^2$/NDF:17.6/21

Out: -0.099+/-0.058 $\chi^2$/NDF:26.5/25

All: -0.011+/-0.041 $\chi^2$/NDF: 48.6/47




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 291.182+/-0.098 $\chi^2$/NDF:1662637.6/6

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 263.362+/-0.084 $\chi^2$/NDF:336371.5/5

Left: 275.095+/-0.064 $\chi^2$/NDF: 2045764.6/12

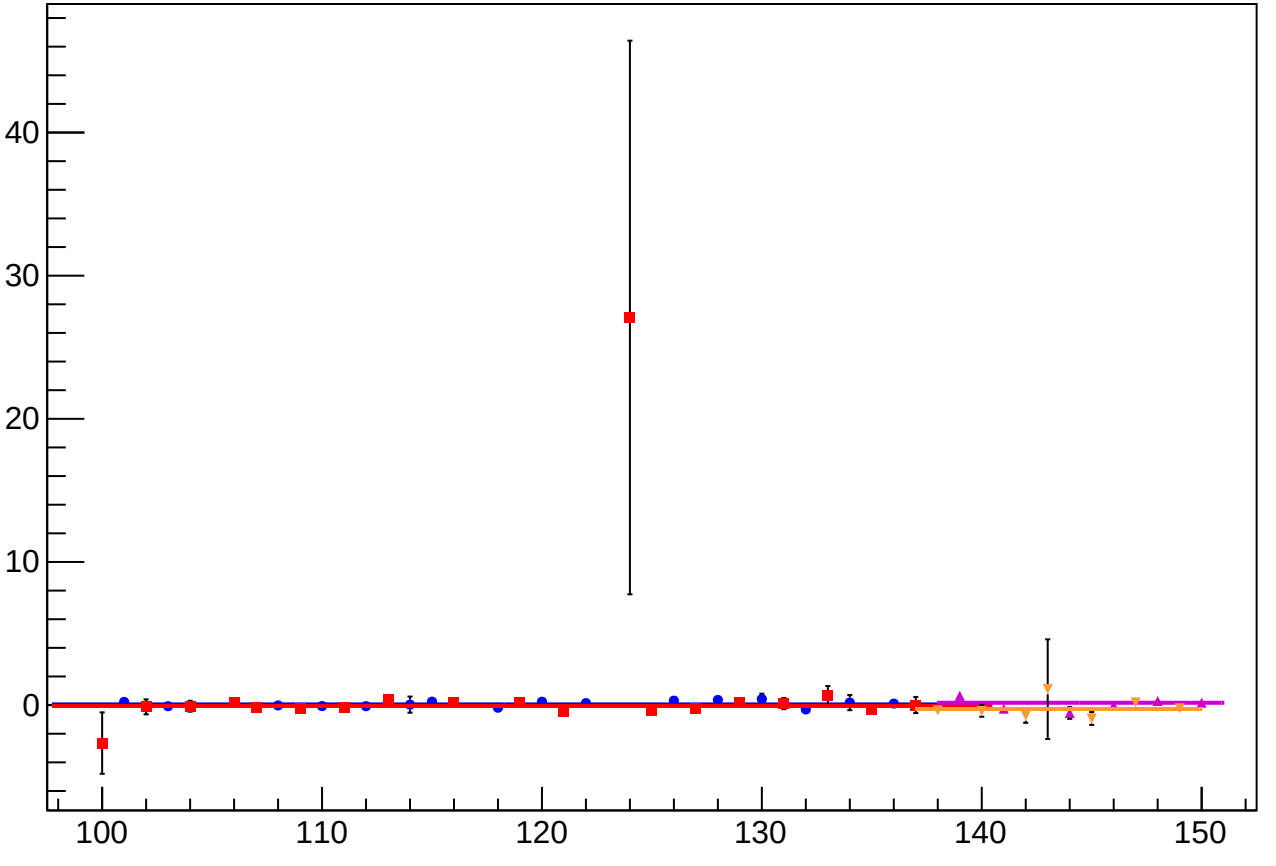
Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 188.504+/-0.041 $\chi^2$/NDF:2867251.5/21

Out: 178.748+/-0.041 $\chi^2$/NDF:5190745.6/25

All: 183.668+/-0.029 $\chi^2$/NDF: 8086155.7/47

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.272+/-0.138 $\chi^2$/NDF:6.2/6

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.164+/-0.118 $\chi^2$/NDF:9.3/5

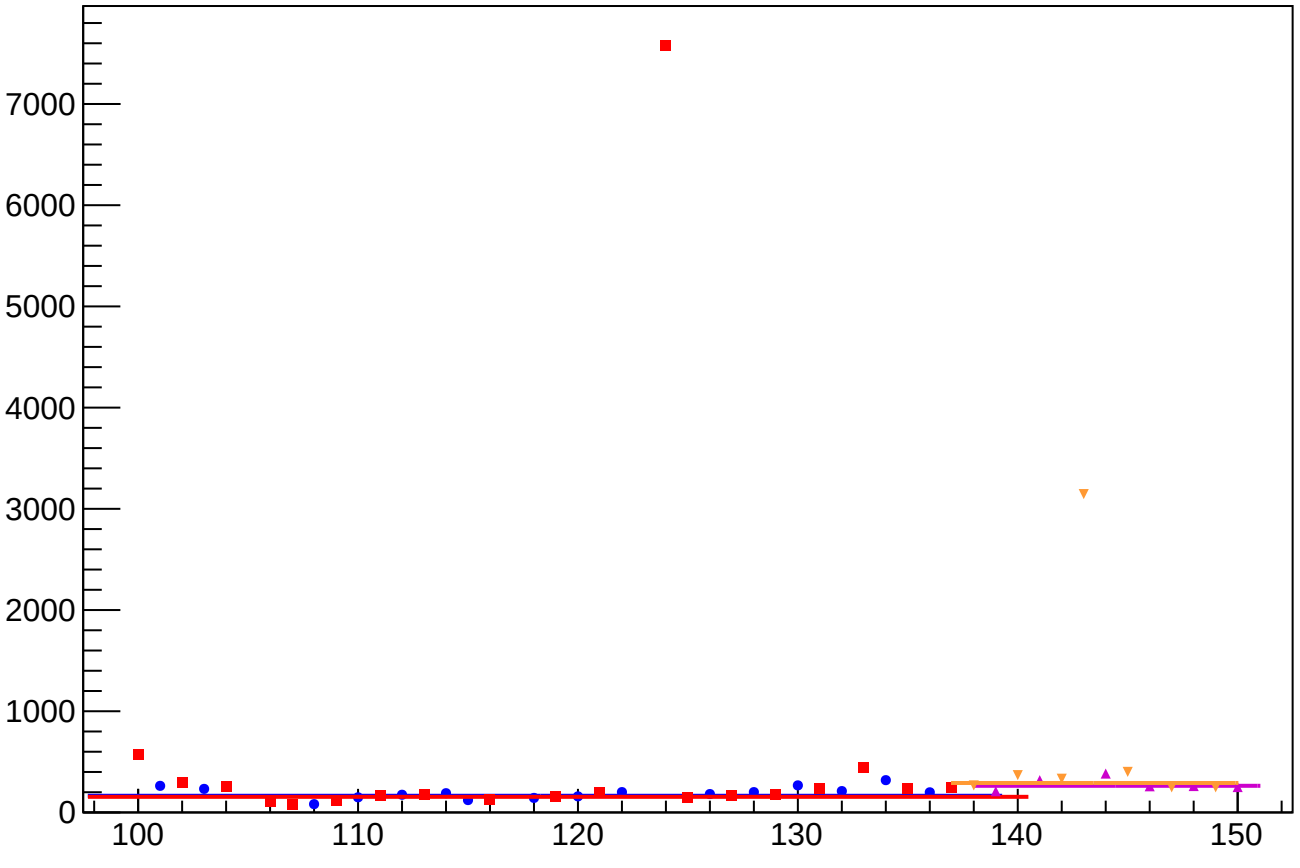
Left: -0.020+/-0.090 $\chi^2$/NDF: 21.2/12

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.058 $\chi^2$/NDF:17.6/21

Out: -0.099+/-0.058 $\chi^2$/NDF:26.5/25

All: -0.011+/-0.041 $\chi^2$/NDF: 48.6/47




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 291.182+/-0.098 $\chi^2$/NDF:1662637.6/6

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 263.362+/-0.084 $\chi^2$/NDF:336371.5/5

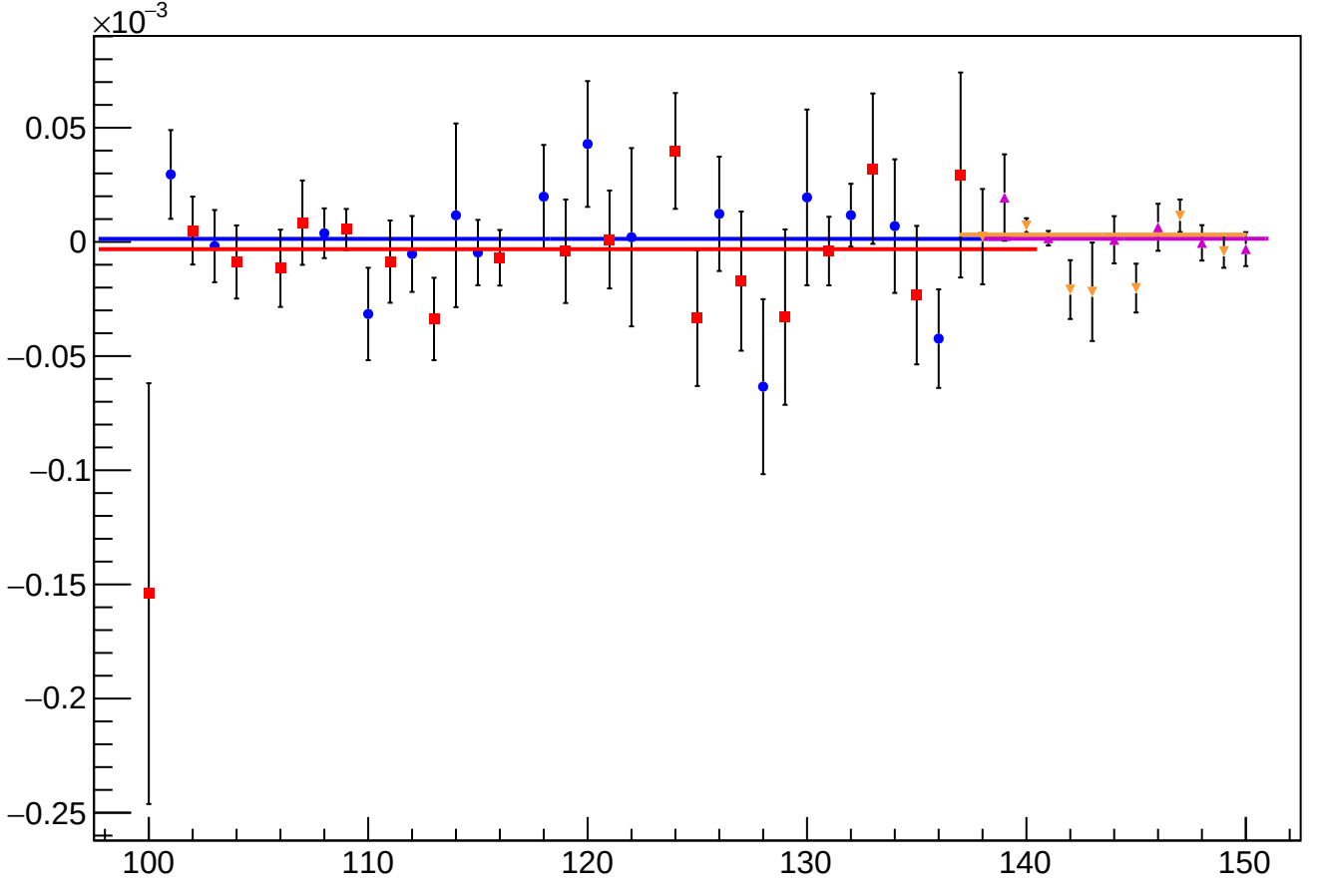
Left: 275.095+/-0.064 $\chi^2$/NDF: 2045764.6/12

Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 188.504+/-0.041 $\chi^2$/NDF:2867251.5/21

Out: 178.748+/-0.041 $\chi^2$/NDF:5190745.6/25

All: 183.668+/-0.029 $\chi^2$/NDF: 8086155.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.6/5

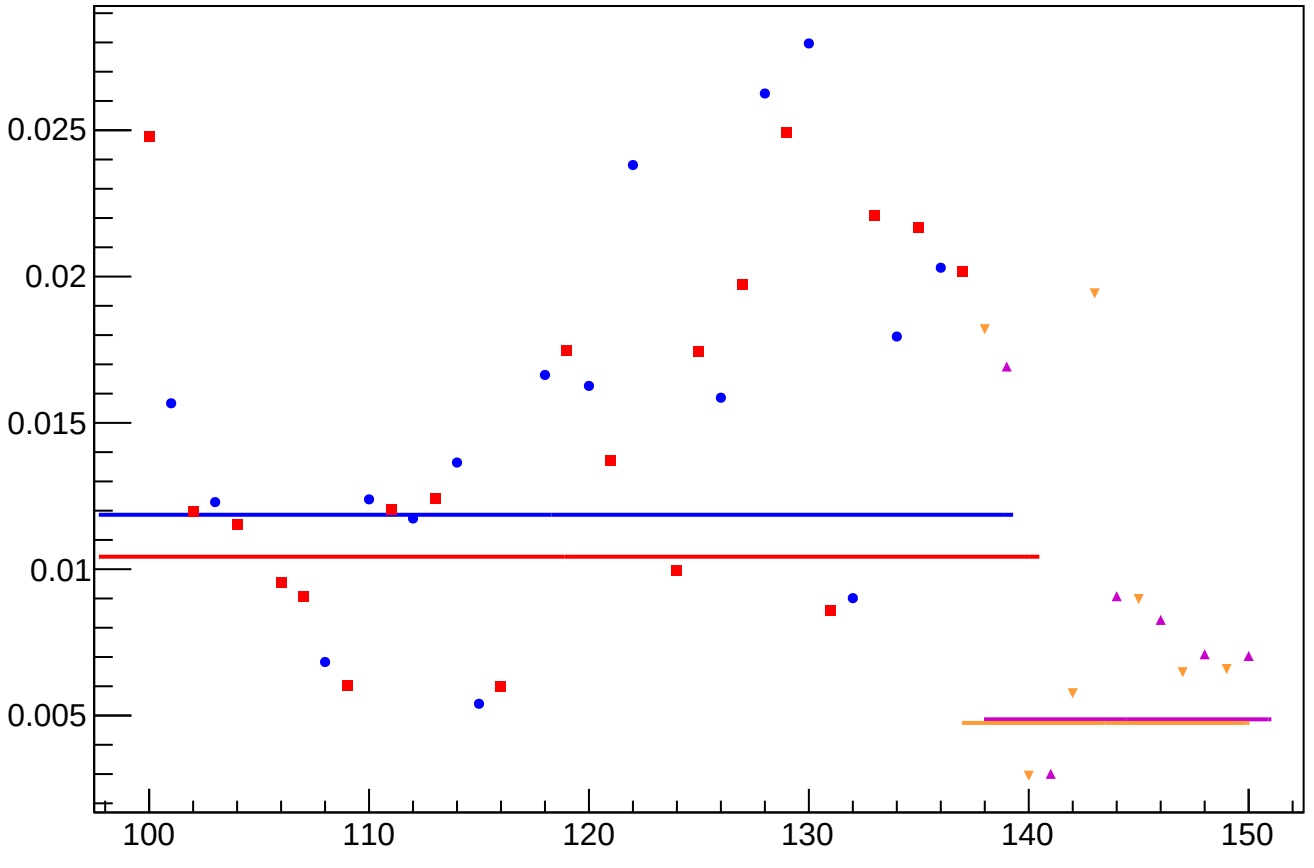
Left: 0.000+/-0.000 $\chi^2$/NDF: 15.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 47.5/47




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2407192.9/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:2962074.4/6

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 2355101.8/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:2370157.6/5

Left: 0.005+/-0.000 $\chi^2$/NDF: 5334543.8/12

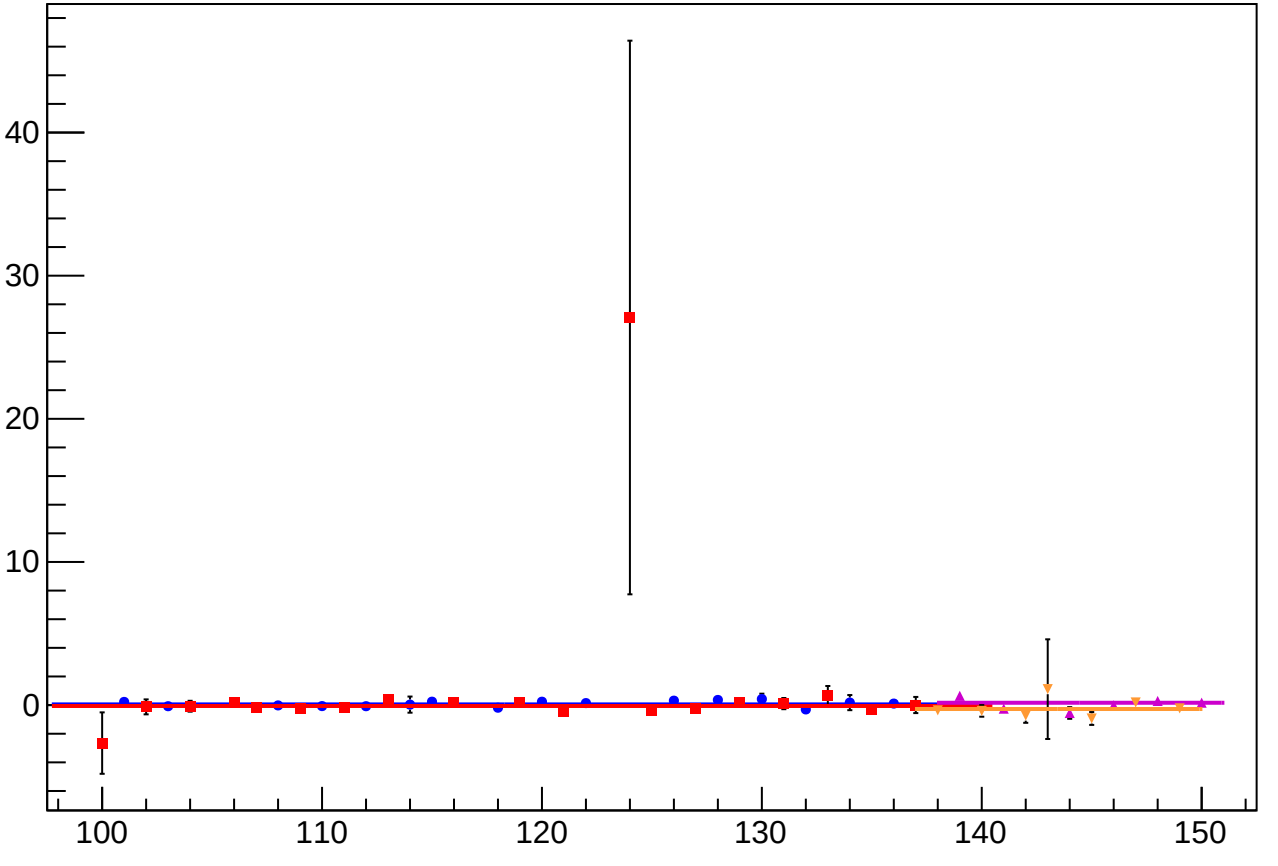
Right: 0.011+/-0.000 $\chi^2$/NDF: 4860752.3/34

In: 0.006+/-0.000 $\chi^2$/NDF:8006458.8/21

Out: 0.006+/-0.000 $\chi^2$/NDF:7960046.3/25

All: 0.006+/-0.000 $\chi^2$/NDF: 15969676.0/47

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.272+/-0.138 $\chi^2$/NDF:6.2/6

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.164+/-0.118 $\chi^2$/NDF:9.3/5

Left: -0.020+/-0.090 $\chi^2$/NDF: 21.2/12

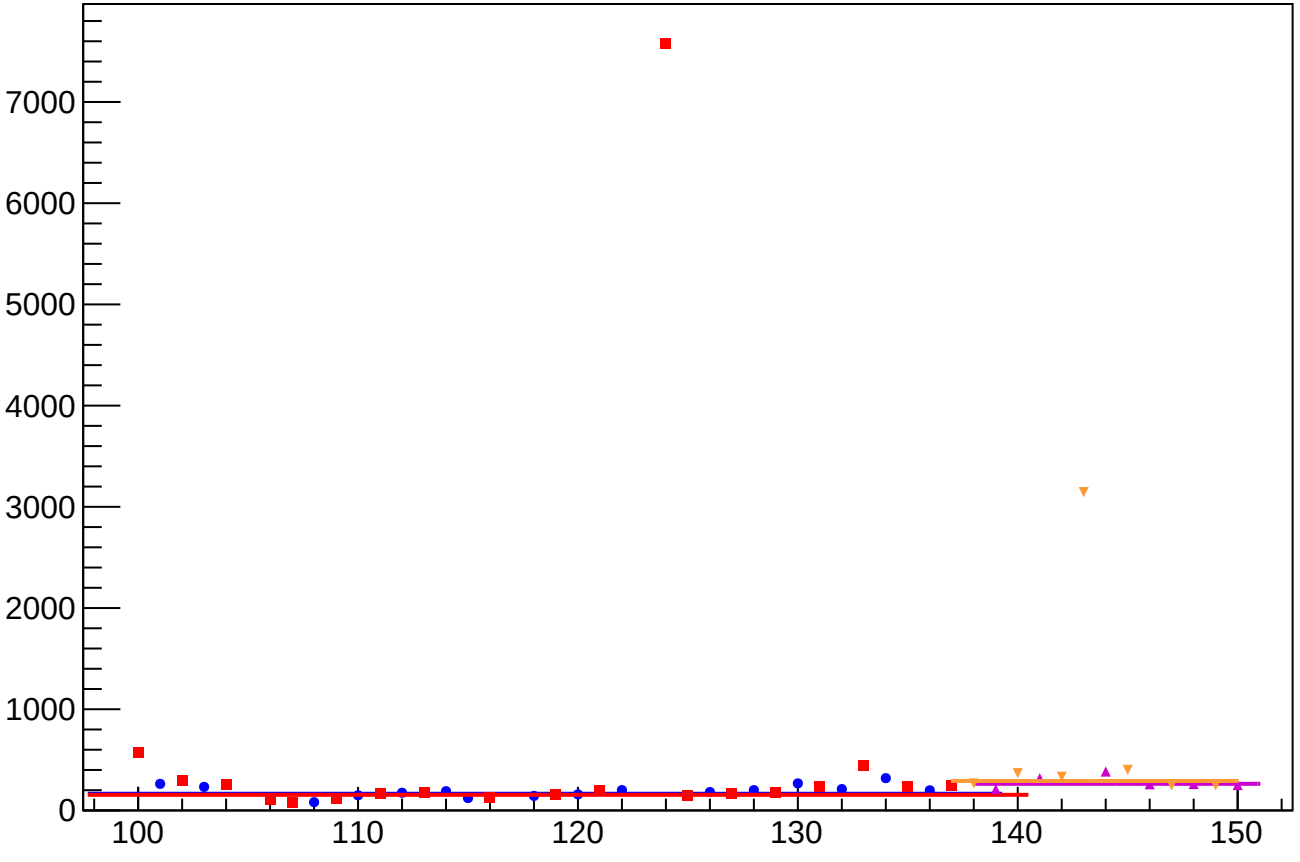
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.058 $\chi^2$/NDF:17.6/21

Out: -0.099+/-0.058 $\chi^2$/NDF:26.5/25

All: -0.011+/-0.041 $\chi^2$/NDF: 48.6/47

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474692.6/15

Left Out: 291.186+/-0.098 $\chi^2$/NDF:1662616.9/6

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 263.365+/-0.084 $\chi^2$/NDF:336356.1/5

Left: 275.099+/-0.064 $\chi^2$/NDF: 2045728.6/12

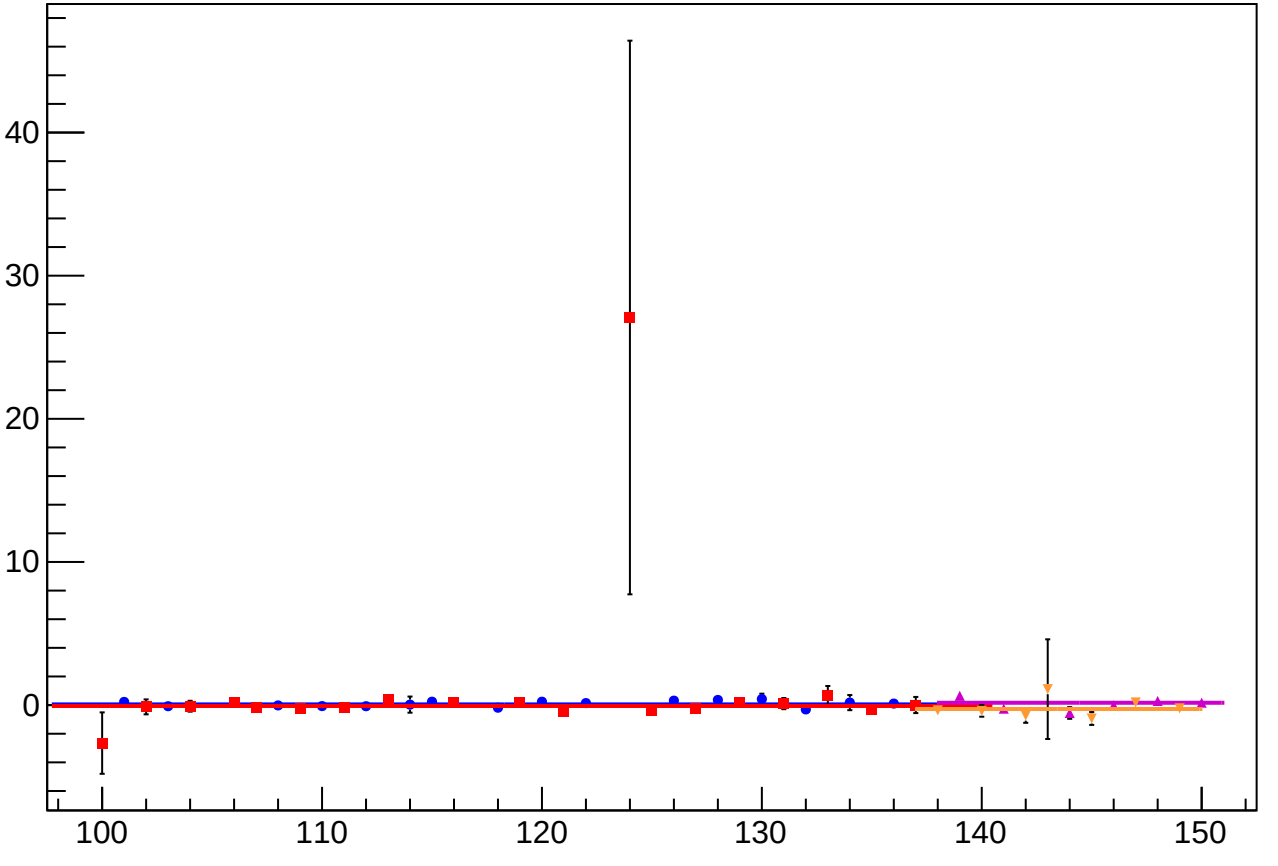
Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 188.504+/-0.041 $\chi^2$/NDF:2867277.8/21

Out: 178.748+/-0.041 $\chi^2$/NDF:5190823.4/25

All: 183.668+/-0.029 $\chi^2$/NDF: 8086260.9/47

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.272+/-0.138 $\chi^2$/NDF:6.2/6

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.164+/-0.118 $\chi^2$/NDF:9.3/5

Left: -0.020+/-0.090 $\chi^2$/NDF: 21.2/12

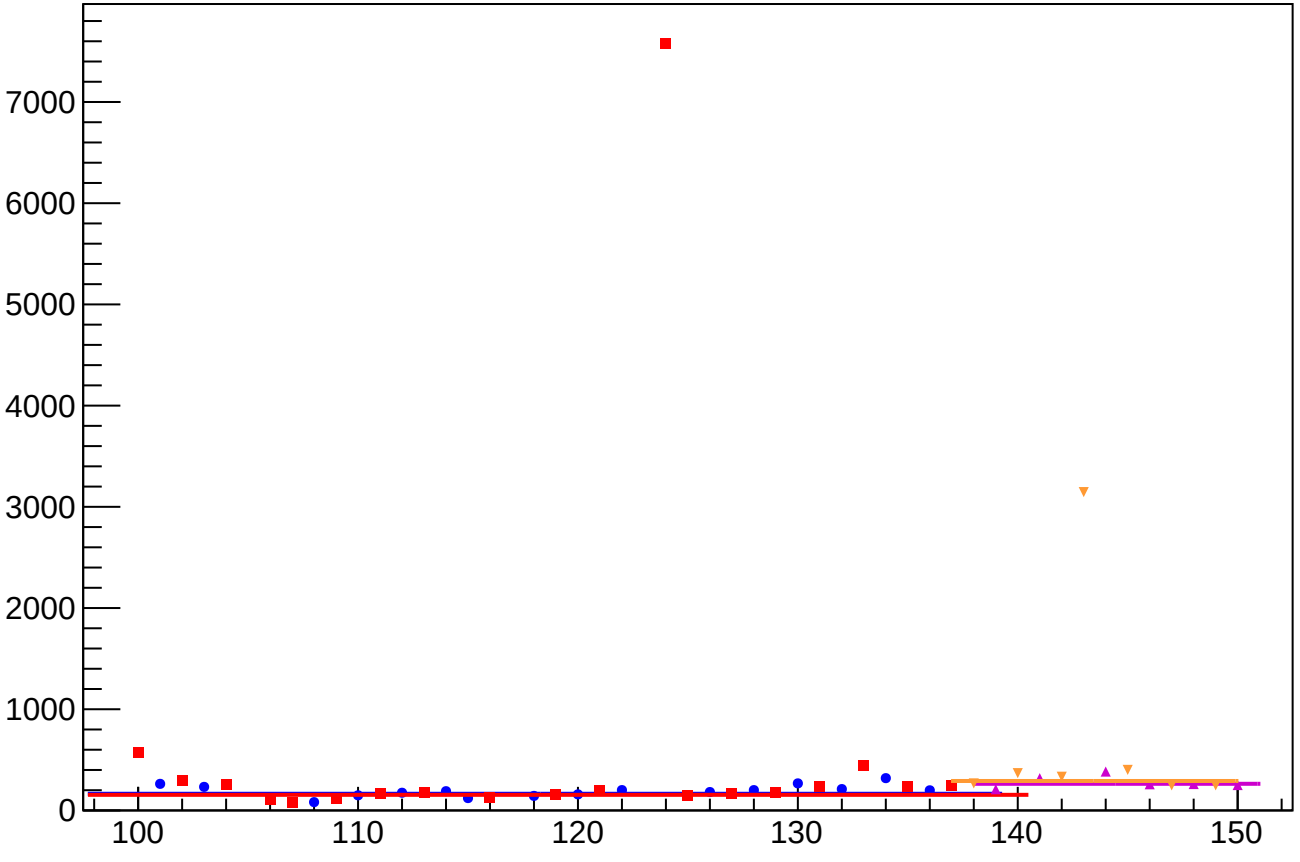
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.058 $\chi^2$/NDF:17.6/21

Out: -0.099+/-0.058 $\chi^2$/NDF:26.5/25

All: -0.011+/-0.041 $\chi^2$/NDF: 48.6/47

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474692.6/15

Left Out: 291.186+/-0.098 $\chi^2$/NDF:1662616.9/6

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 263.365+/-0.084 $\chi^2$/NDF:336356.1/5

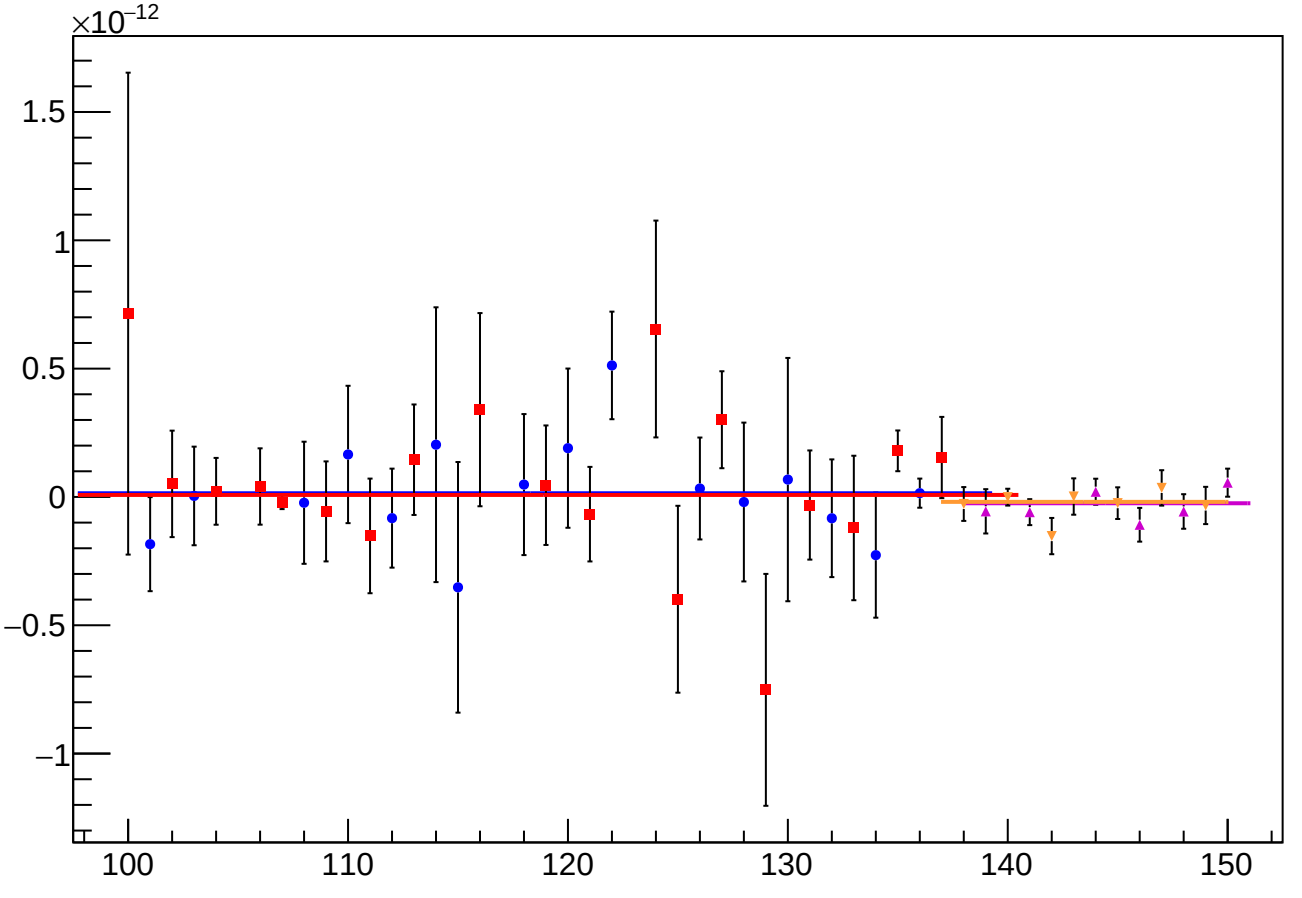
Left: 275.099+/-0.064 $\chi^2$/NDF: 2045728.6/12

Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 188.504+/-0.041 $\chi^2$/NDF:2867277.8/21

Out: 178.748+/-0.041 $\chi^2$/NDF:5190823.4/25

All: 183.668+/-0.029 $\chi^2$/NDF: 8086260.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.4/5

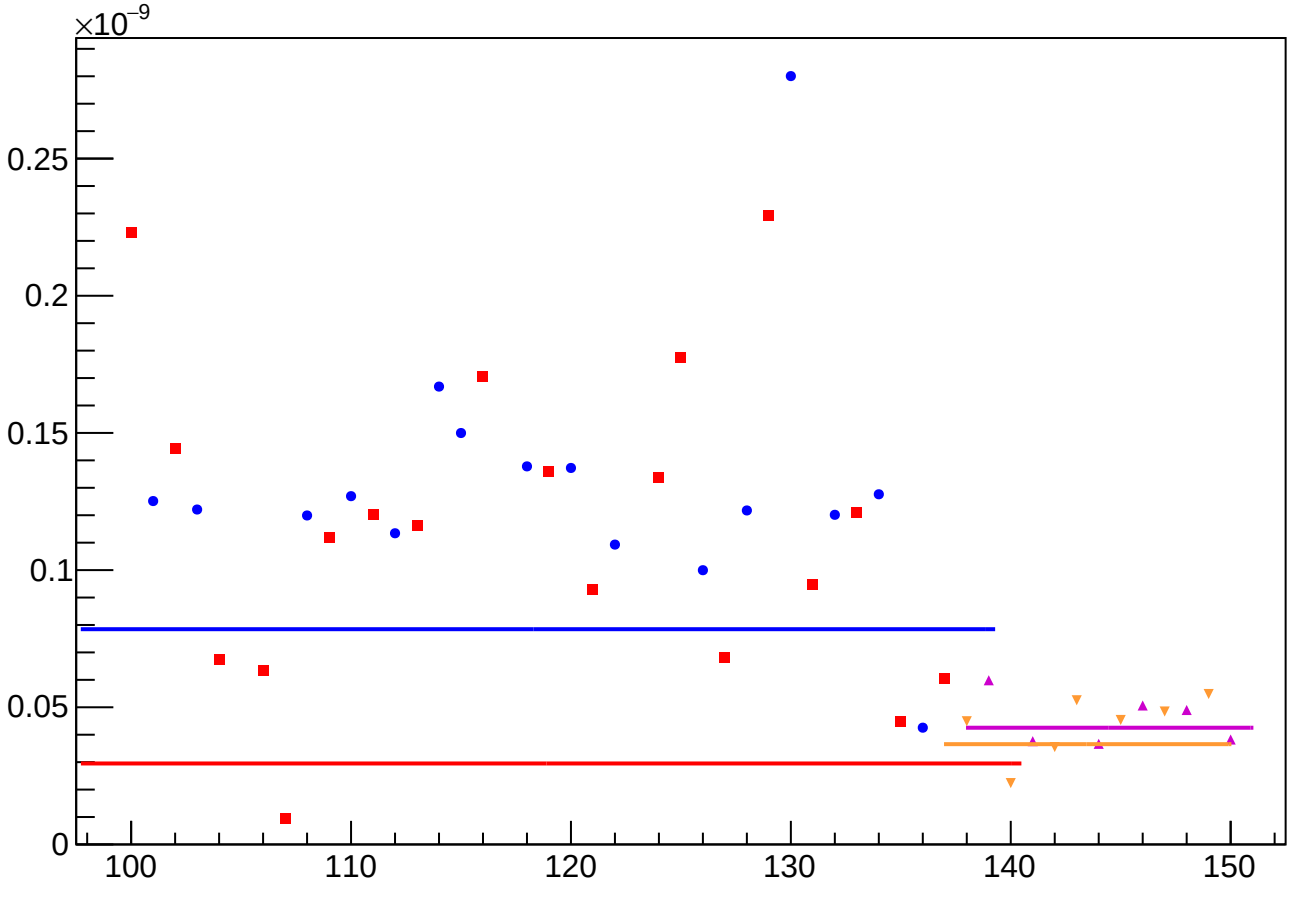
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 39.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2103056.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:735801.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5487361.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:186977.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 991817.2/12

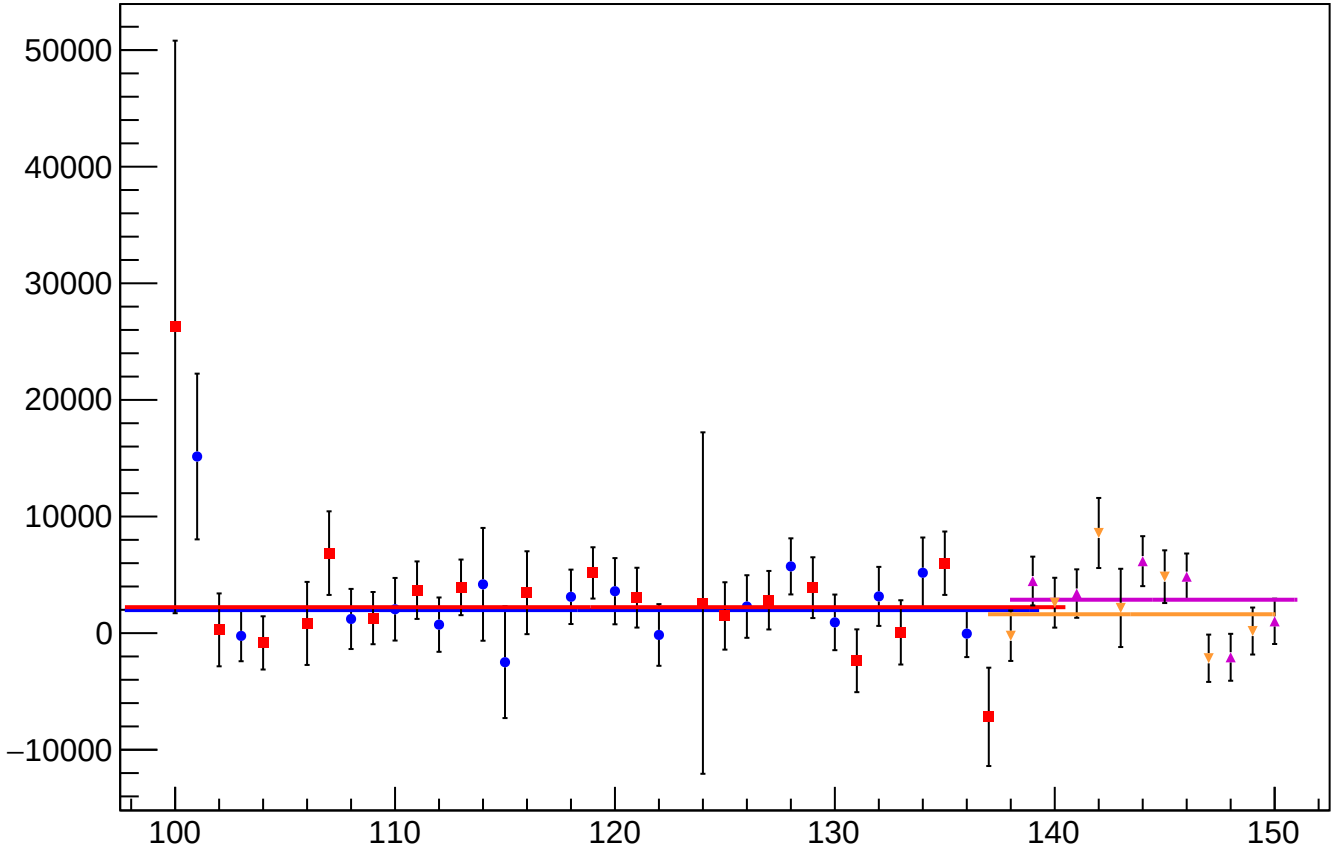
Right: 0.000+/-0.000 $\chi^2$/NDF: 9651358.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3370824.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6324671.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 10649466.5/47

# reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1976.299+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1619.678+/-871.058 $\chi^2$/NDF:12.4/6

Right Out: 2226.171+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2865.087+/-832.427 $\chi^2$/NDF:11.0/5

Left: 2270.611+/-601.808 $\chi^2$/NDF: 24.4/12

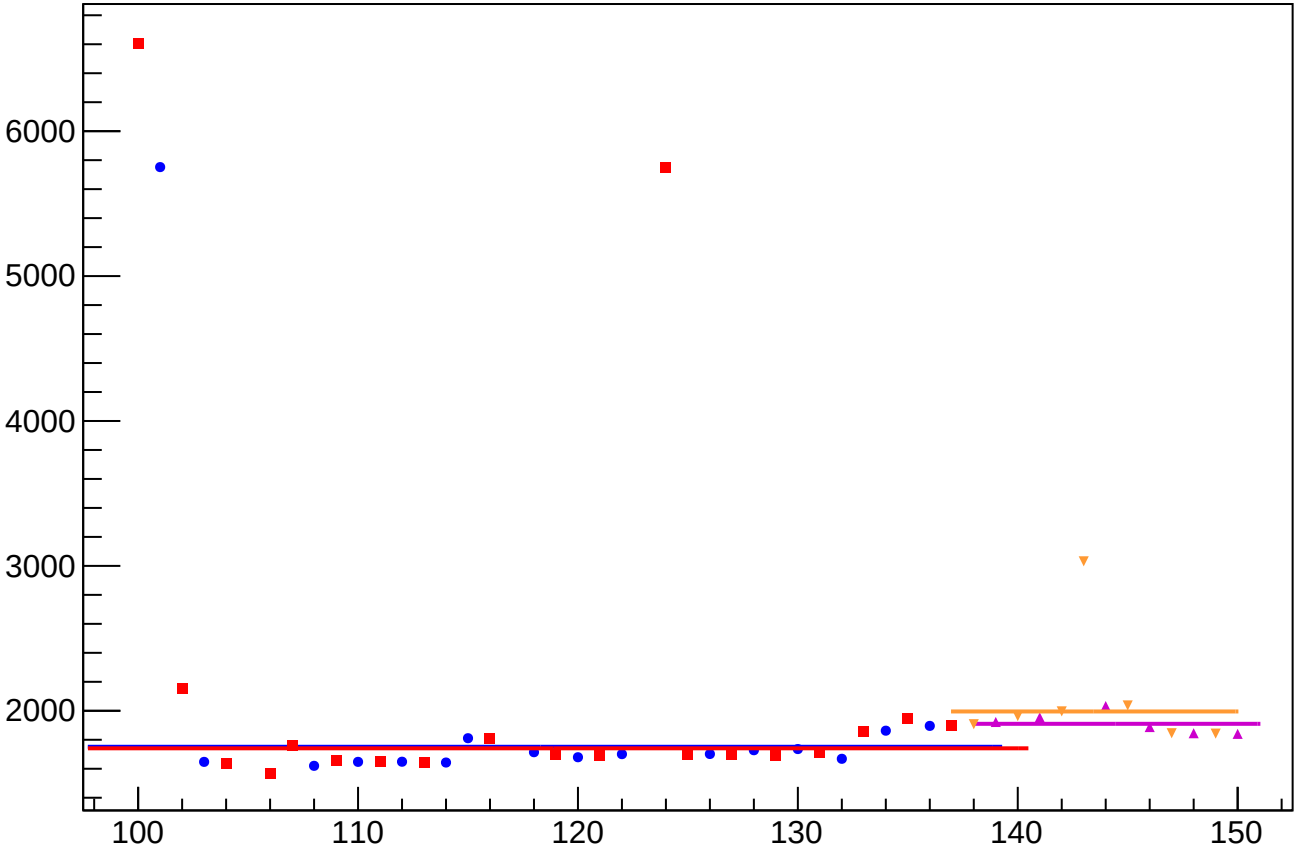
Right: 2103.390+/-468.051 $\chi^2$/NDF: 31.2/34

In: 2324.265+/-520.854 $\chi^2$/NDF:23.8/21

Out: 2006.554+/-524.163 $\chi^2$/NDF:31.6/25

All: 2166.416+/-369.464 $\chi^2$/NDF: 55.6/47

# reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 1751.607+/-0.472 $\chi^2$/NDF: 670651.4/15

Left Out: 1995.355+/-0.616 $\chi^2$/NDF:217640.6/6

Right Out: 1741.052+/-0.461 $\chi^2$/NDF: 304655.0/18

Left In: 1910.080+/-0.589 $\chi^2$/NDF:12408.4/5

Left: 1950.785+/-0.426 $\chi^2$/NDF: 240067.6/12

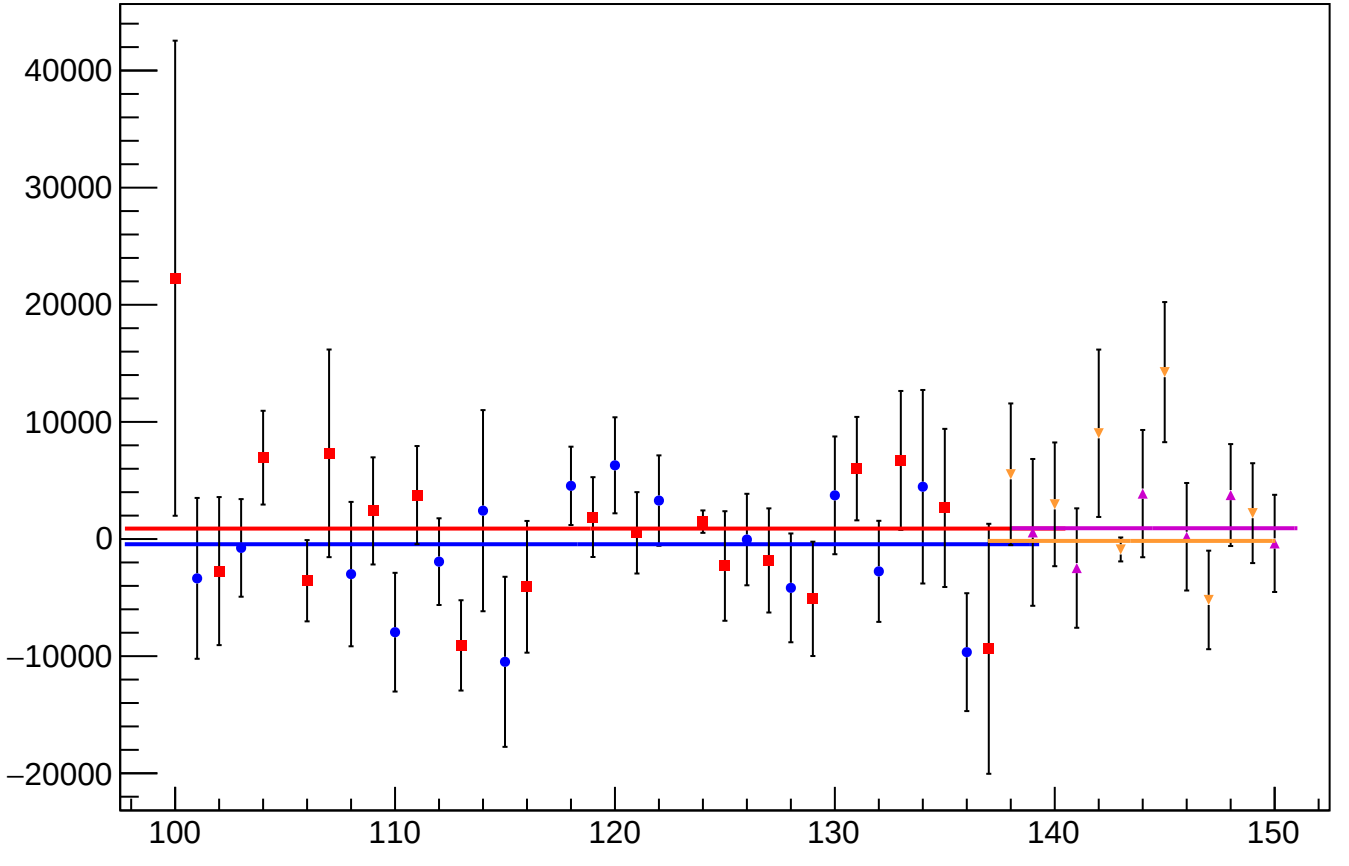
Right: 1746.199+/-0.330 $\chi^2$/NDF: 975562.4/34

In: 1813.650+/-0.368 $\chi^2$/NDF:727166.5/21

Out: 1832.272+/-0.369 $\chi^2$/NDF:631614.9/25

All: 1822.946+/-0.261 $\chi^2$/NDF: 1360057.7/47

asym_atr1l2_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -444.273+/-1174.448 $\chi^2$/NDF: 15.9/15

Left Out: -161.063+/-921.007 $\chi^2$/NDF:10.9/6

Right Out: 892.237+/-725.737 $\chi^2$/NDF: 20.1/18

Left In: 922.409+/-1975.803 $\chi^2$/NDF:1.3/5

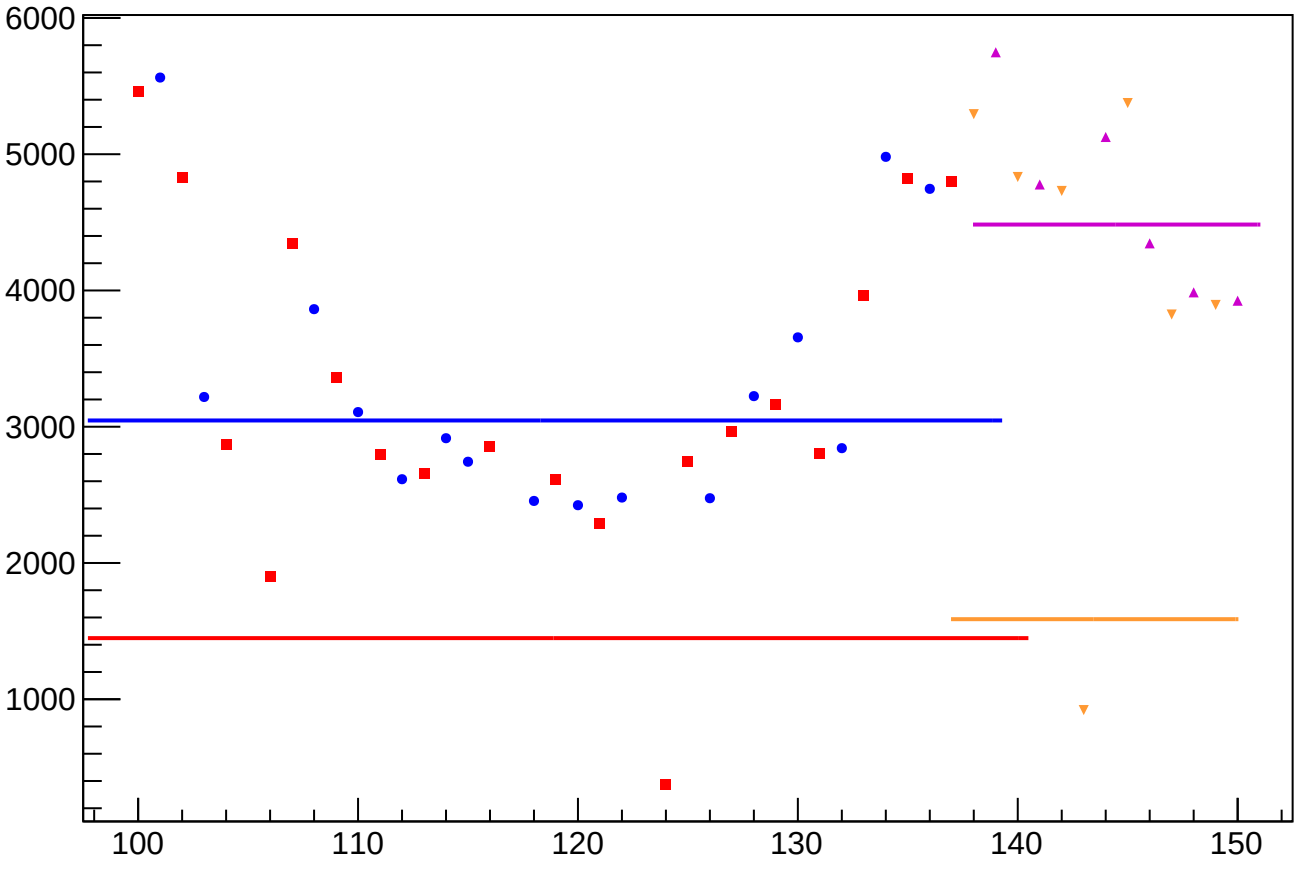
Left: 32.340+/-834.769 $\chi^2$/NDF: 12.5/12

Right: 522.917+/-617.375 $\chi^2$/NDF: 36.9/34

In: -87.457+/-1009.560 $\chi^2$/NDF:17.6/21

Out: 488.756+/-570.032 $\chi^2$/NDF:31.8/25

All: 349.461+/-496.372 $\chi^2$/NDF: 49.6/47




Right In: 3045.917+/-0.830 $\chi^2$/NDF: 907385.5/15

Left Out: 1587.555+/-0.651 $\chi^2$/NDF:4697002.1/6

Right Out: 1448.519+/-0.513 $\chi^2$/NDF: 6786925.8/18

Left In: 4483.758+/-1.397 $\chi^2$/NDF:180293.4/5

Left: 2104.535+/-0.590 $\chi^2$/NDF: 8407556.6/12

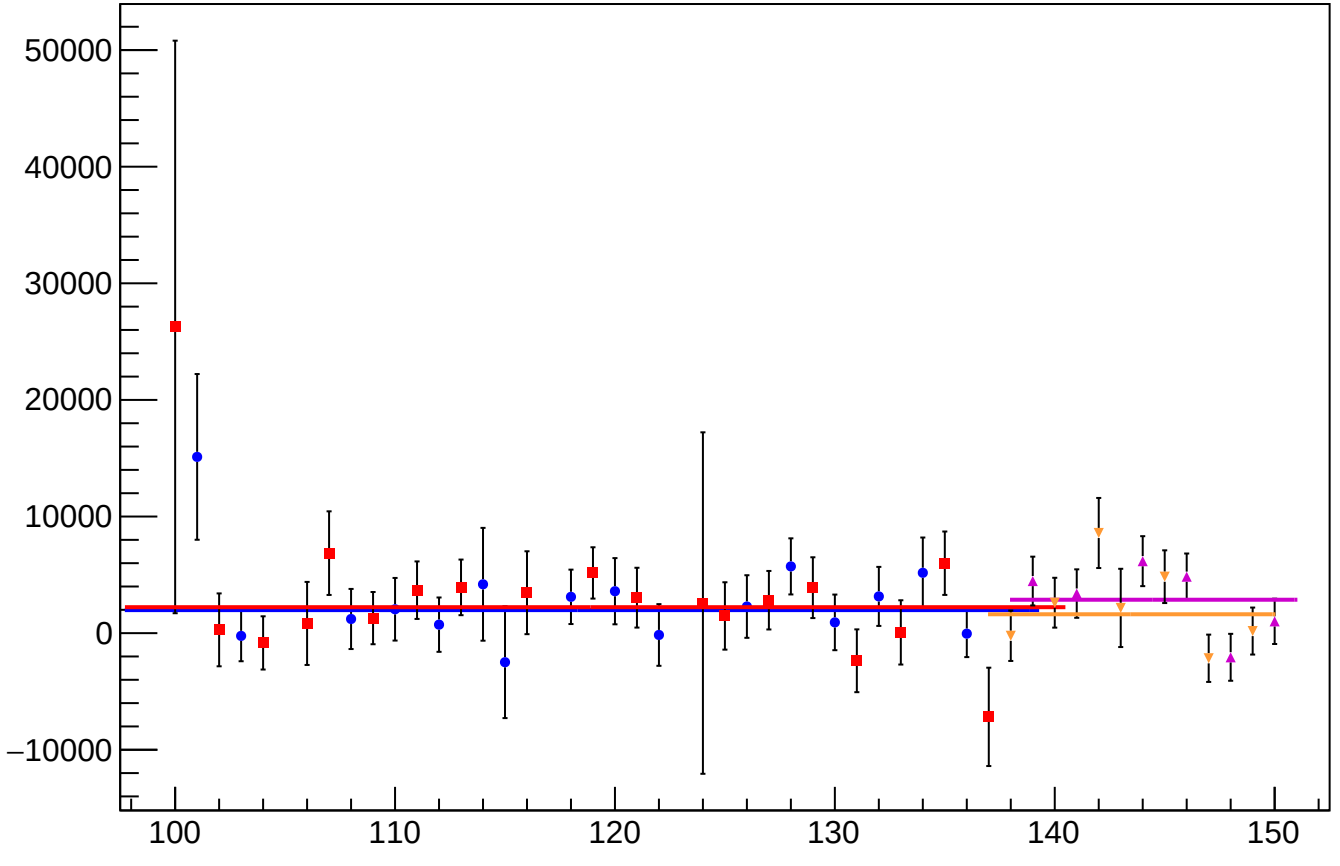
Right: 1889.931+/-0.437 $\chi^2$/NDF: 10371803.4/34

In: 3421.312+/-0.714 $\chi^2$/NDF:1870316.5/21

Out: 1501.779+/-0.403 $\chi^2$/NDF:11512046.6/25

All: 1965.810+/-0.351 $\chi^2$/NDF: 18864806.3/4

# cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1619.657+/-871.058 $\chi^2$/NDF:12.4/6

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2865.286+/-832.427 $\chi^2$/NDF:11.0/5

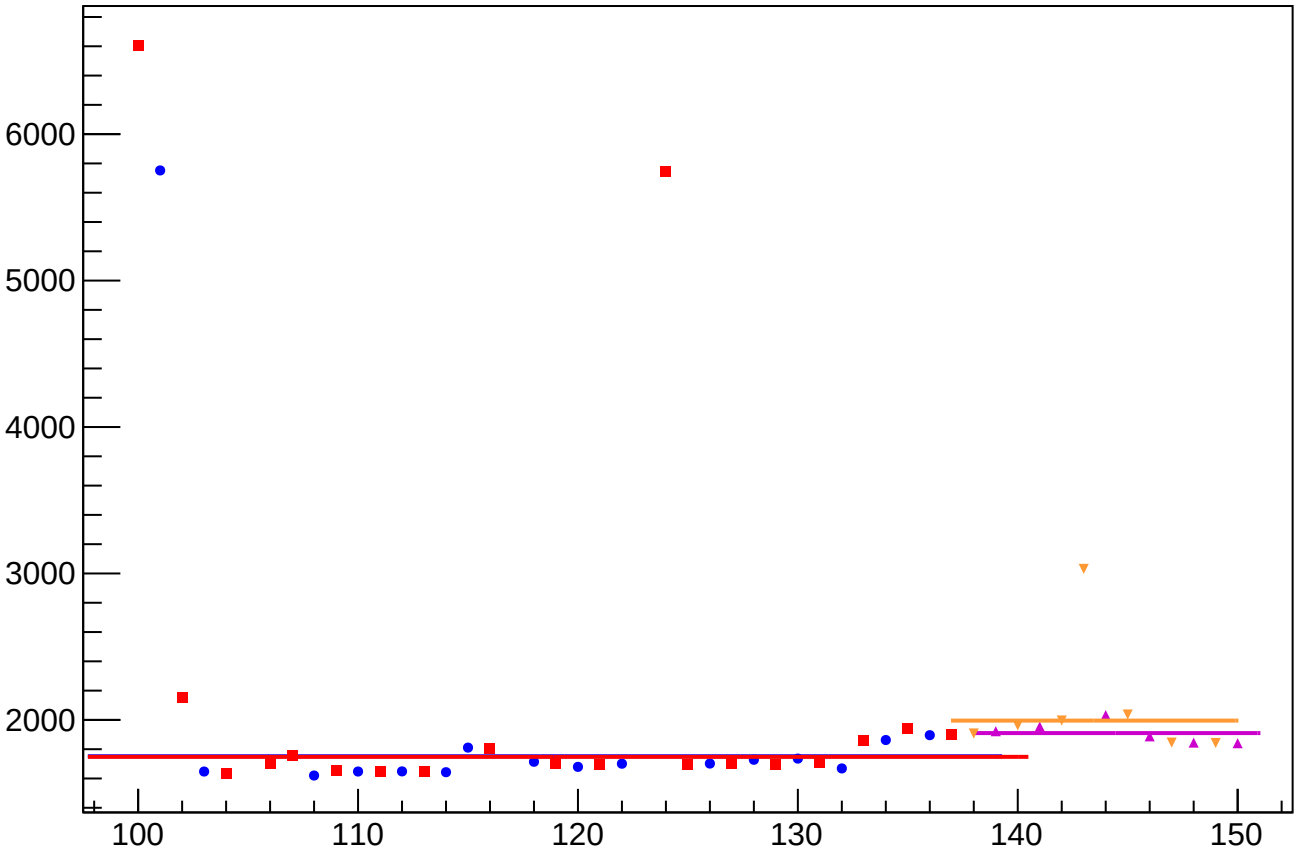
Left: 2270.705+/-601.808 $\chi^2$/NDF: 24.4/12

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2324.128+/-520.854 $\chi^2$/NDF:23.8/21

Out: 2006.608+/-524.163 $\chi^2$/NDF:31.6/25

All: 2166.374+/-369.464 $\chi^2$/NDF: 55.6/47




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 1995.355+/-0.616 $\chi^2$/NDF:217640.6/6

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1910.080+/-0.589 $\chi^2$/NDF:12408.4/5

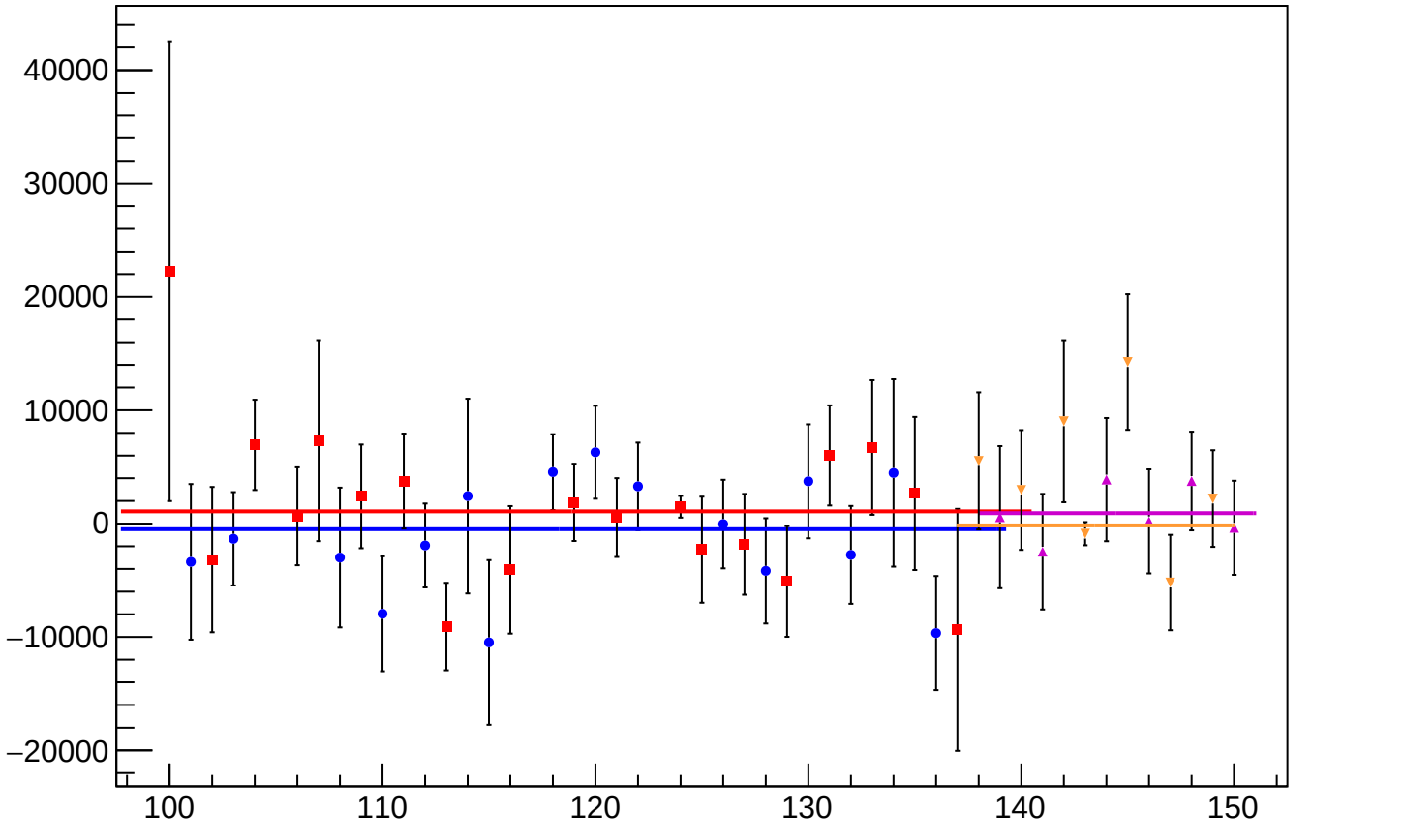
Left: 1950.785+/-0.426 $\chi^2$/NDF: 240067.6/12

Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1813.650+/-0.368 $\chi^2$/NDF:727166.9/21

Out: 1837.004+/-0.370 $\chi^2$/NDF:618894.3/25

All: 1825.281+/-0.261 $\chi^2$/NDF: 1348063.9/47




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -160.885+/-920.977 $\chi^2$/NDF:10.9/6

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 922.431+/-1975.804 $\chi^2$/NDF:1.3/5

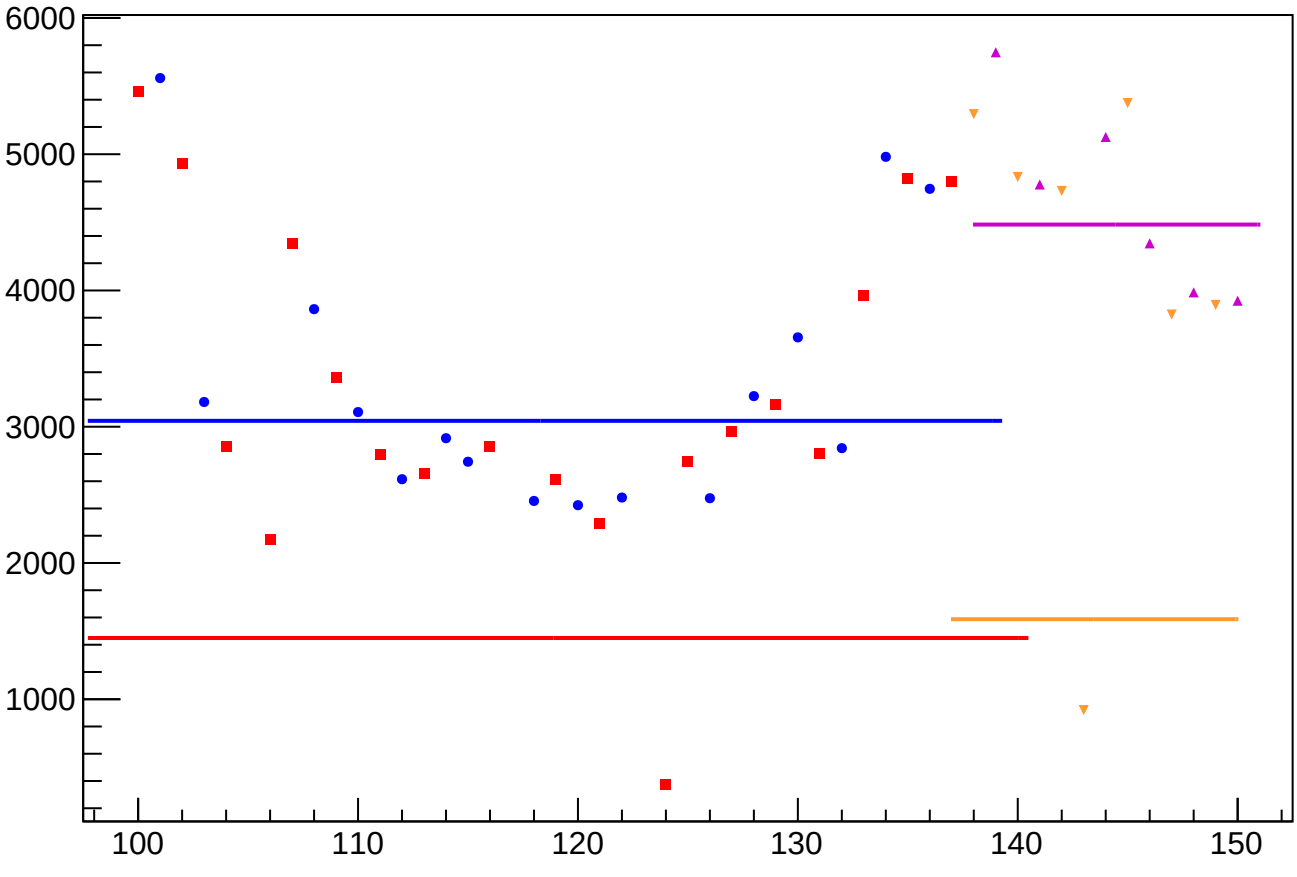
Left: 32.480+/-834.746 $\chi^2$/NDF: 12.5/12

Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -123.957+/-1008.792 $\chi^2$/NDF:17.6/21

Out: 600.594+/-572.784 $\chi^2$/NDF:30.5/25

All: 423.954+/-498.094 $\chi^2$/NDF: 48.6/47




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 1587.480+/-0.651 $\chi^2$/NDF:4697160.1/6

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 4483.759+/-1.397 $\chi^2$/NDF:180294.0/5

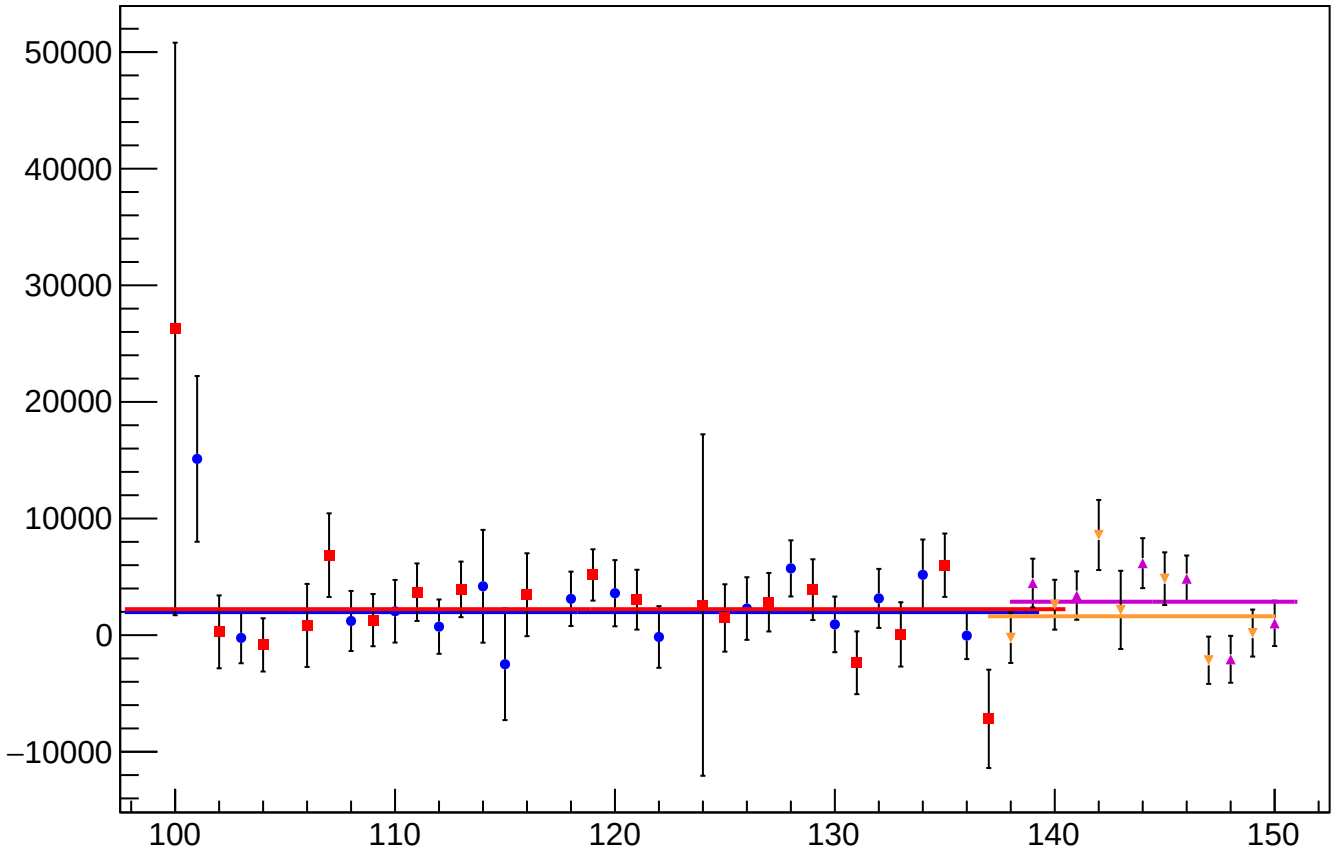
Left: 2104.445+/-0.590 $\chi^2$/NDF: 8407940.6/12

Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3418.783+/-0.713 $\chi^2$/NDF:1871898.8/21

Out: 1502.880+/-0.405 $\chi^2$/NDF:11550397.9/25

All: 1969.963+/-0.352 $\chi^2$/NDF: 18877554.2/4




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1619.657+/-871.058 $\chi^2$/NDF:12.4/6

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2865.286+/-832.427 $\chi^2$/NDF:11.0/5

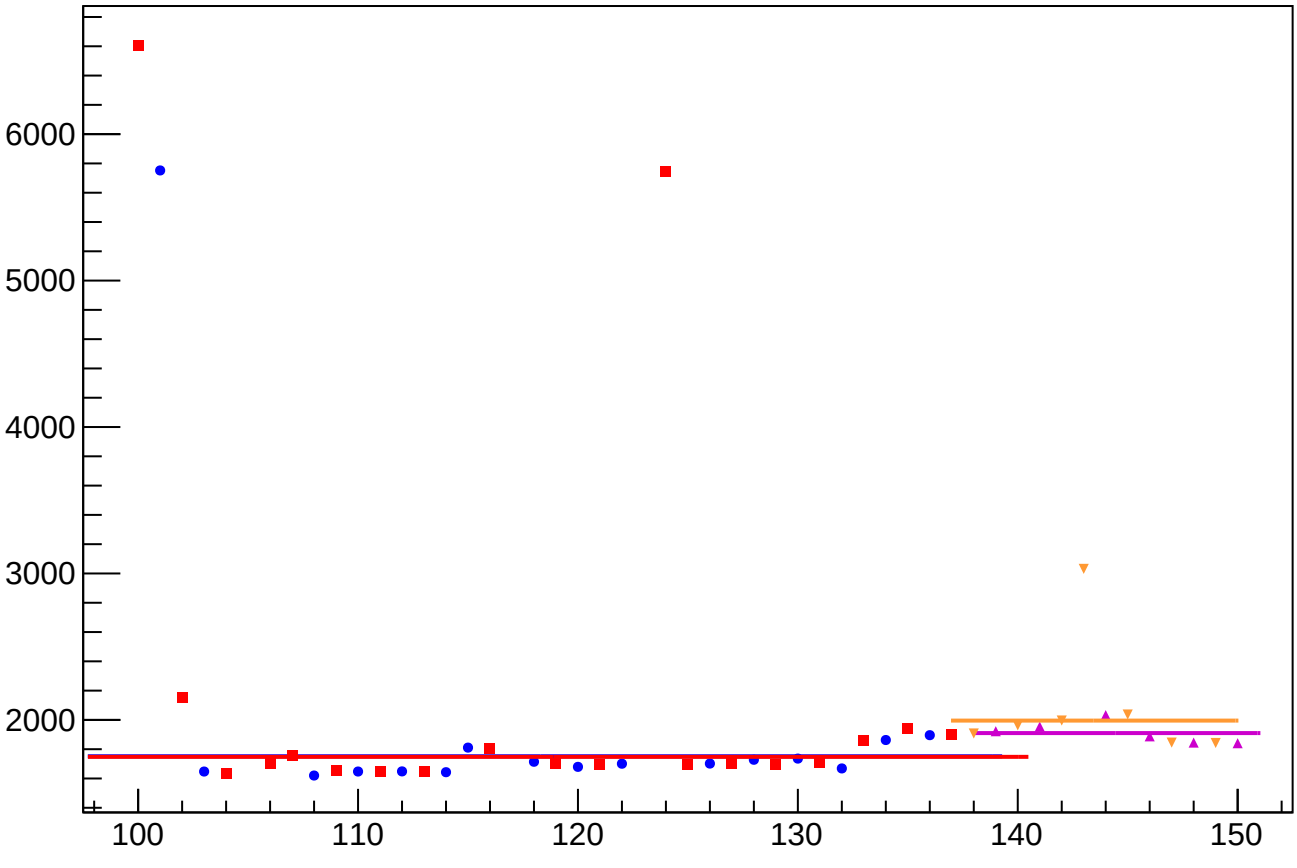
Left: 2270.705+/-601.808 $\chi^2$/NDF: 24.4/12

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2324.128+/-520.854 $\chi^2$/NDF:23.8/21

Out: 2006.608+/-524.163 $\chi^2$/NDF:31.6/25

All: 2166.374+/-369.464 $\chi^2$/NDF: 55.6/47




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 1995.355+/-0.616 $\chi^2$/NDF:217640.6/6

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1910.080+/-0.589 $\chi^2$/NDF:12408.4/5

Left: 1950.785+/-0.426 $\chi^2$/NDF: 240067.6/12

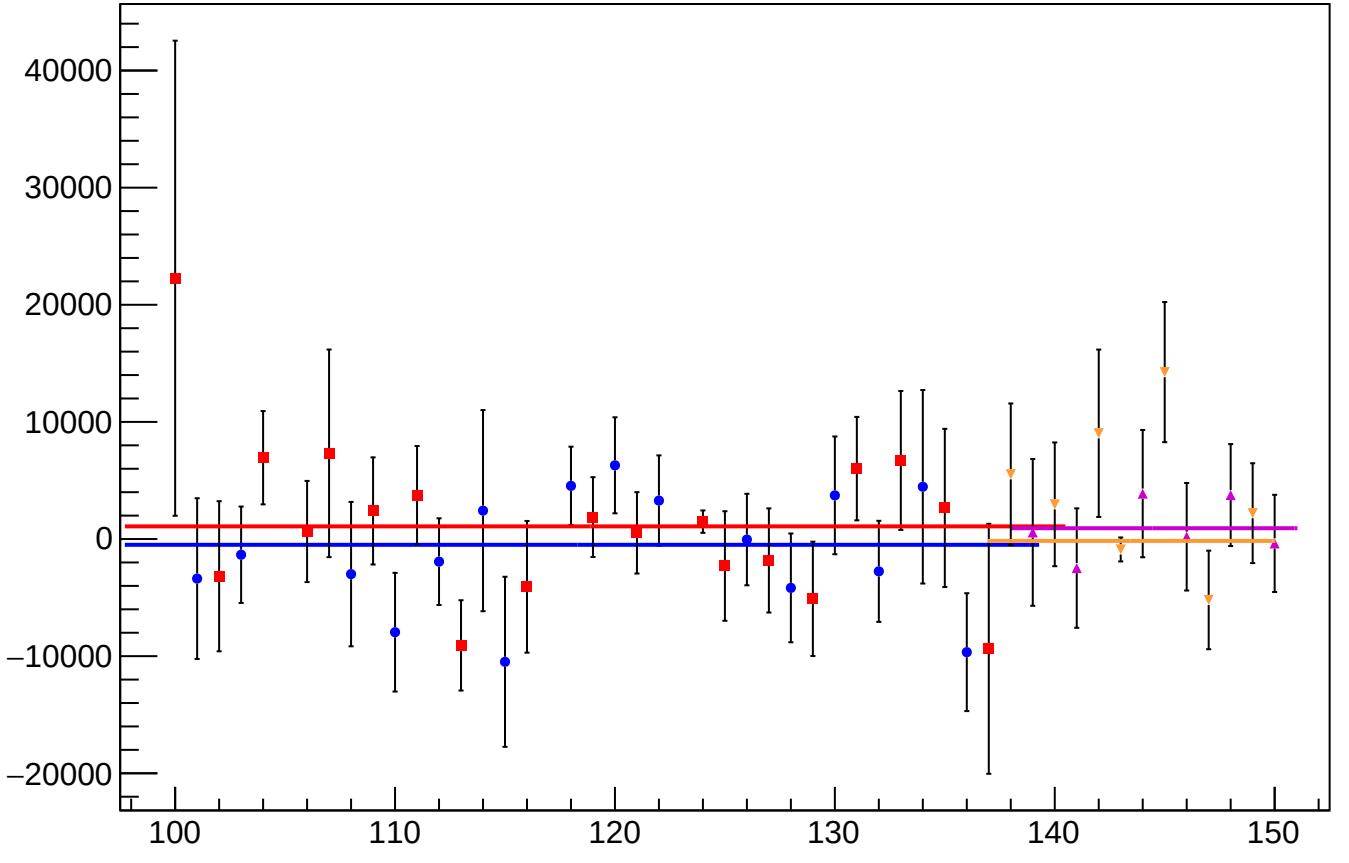
Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1813.650+/-0.368 $\chi^2$/NDF:727166.9/21

Out: 1837.004+/-0.370 $\chi^2$/NDF:618894.3/25

All: 1825.281+/-0.261 $\chi^2$/NDF: 1348063.9/47

asym_atr1l2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -160.885+/-920.977 $\chi^2$/NDF:10.9/6

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 922.431+/-1975.804 $\chi^2$/NDF:1.3/5

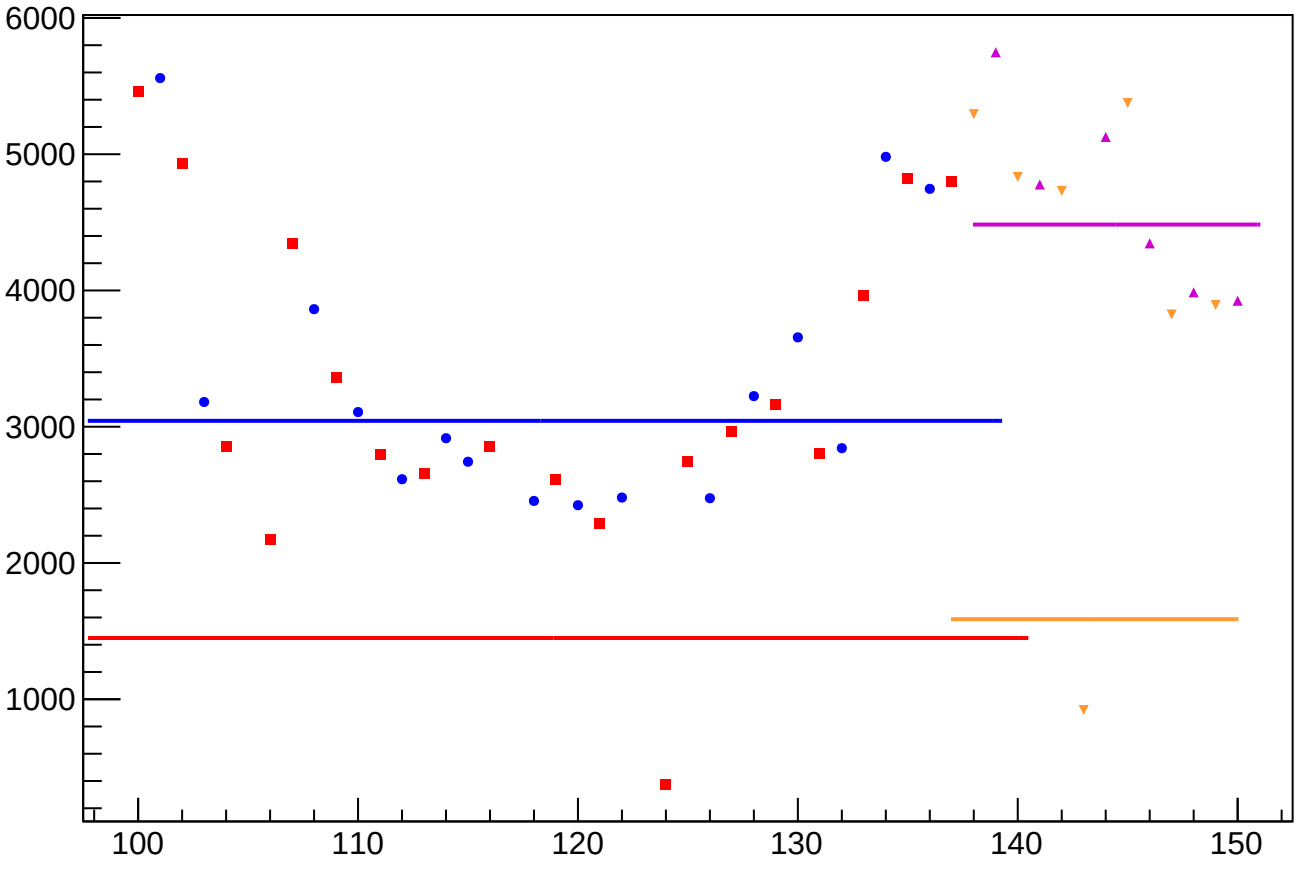
Left: 32.480+/-834.746 $\chi^2$/NDF: 12.5/12

Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -123.957+/-1008.792 $\chi^2$/NDF:17.6/21

Out: 600.594+/-572.784 $\chi^2$/NDF:30.5/25

All: 423.954+/-498.094 $\chi^2$/NDF: 48.6/47




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 1587.480+/-0.651 $\chi^2$/NDF:4697160.1/6

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 4483.759+/-1.397 $\chi^2$/NDF:180294.0/5

Left: 2104.445+/-0.590 $\chi^2$/NDF: 8407940.6/12

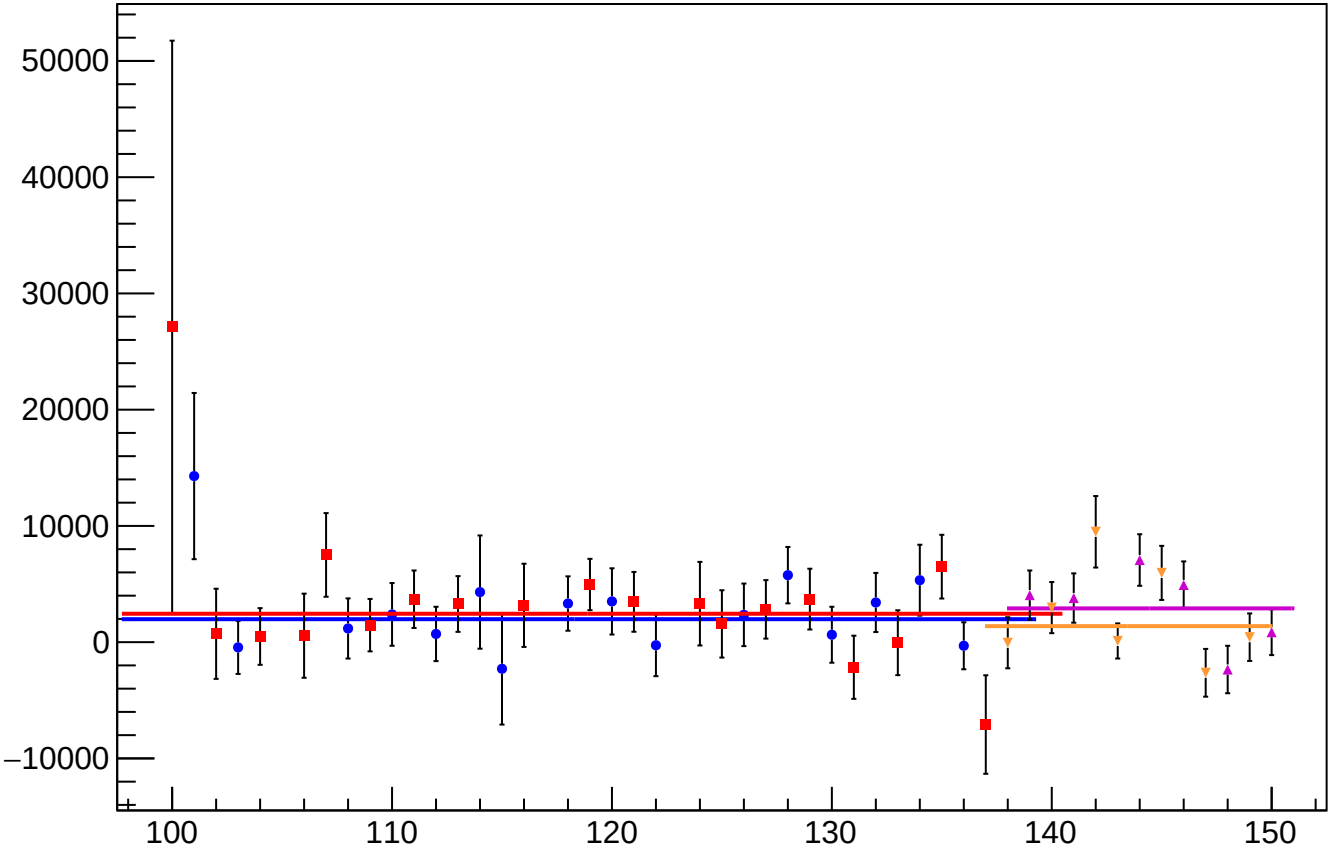
Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3418.783+/-0.713 $\chi^2$/NDF:1871898.8/21

Out: 1502.880+/-0.405 $\chi^2$/NDF:11550397.9/25

All: 1969.963+/-0.352 $\chi^2$/NDF: 18877554.2/4

# dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.804+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 1377.688+/-785.894 $\chi^2$/NDF:16.5/6

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 2905.429+/-848.273 $\chi^2$/NDF:12.7/5

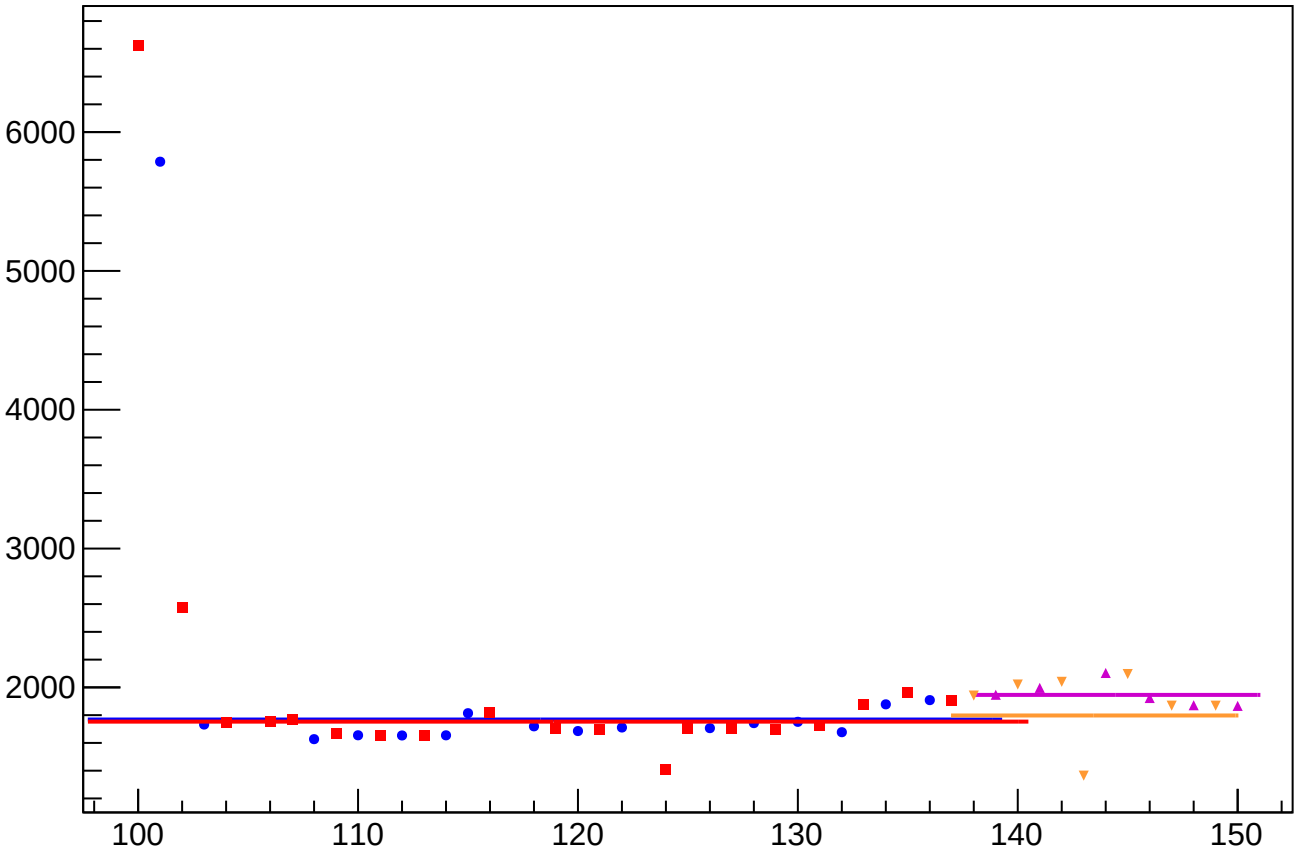
Left: 2083.327+/-576.504 $\chi^2$/NDF: 31.0/12

Right: 2215.770+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2335.624+/-527.746 $\chi^2$/NDF:25.9/21

Out: 2004.924+/-504.370 $\chi^2$/NDF:35.1/25

All: 2162.788+/-364.627 $\chi^2$/NDF: 61.2/47




Right In: 1768.480+/-0.477 $\chi^2$/NDF: 667367.4/15

Left Out: 1797.666+/-0.556 $\chi^2$/NDF:243906.8/6

Right Out: 1753.383+/-0.464 $\chi^2$/NDF: 218864.4/18

Left In: 1945.866+/-0.600 $\chi^2$/NDF:17429.2/5

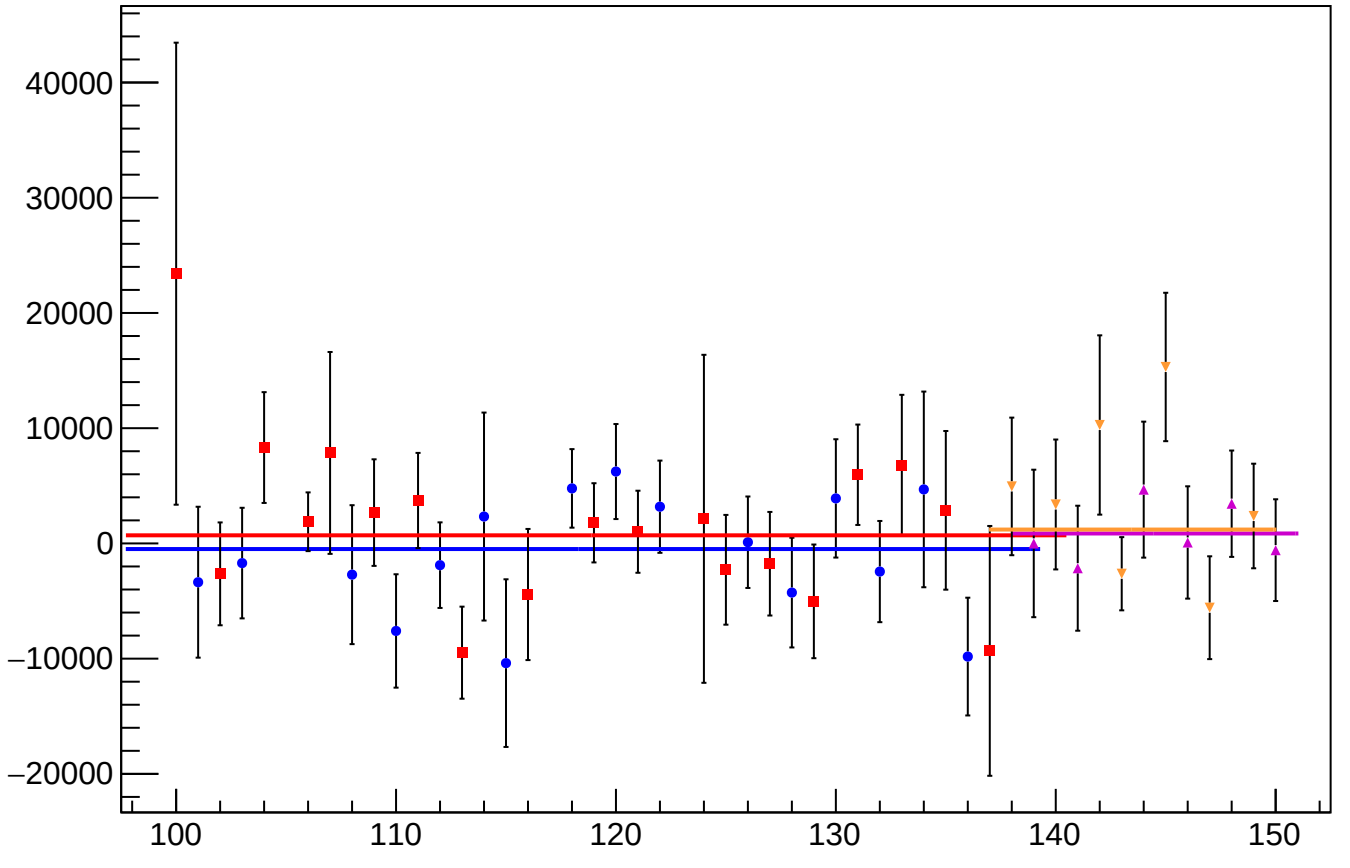
Left: 1866.117+/-0.408 $\chi^2$/NDF: 294185.5/12

Right: 1760.725+/-0.332 $\chi^2$/NDF: 886747.1/34

In: 1837.139+/-0.373 $\chi^2$/NDF:738402.9/21

Out: 1771.565+/-0.356 $\chi^2$/NDF:466514.1/25

All: 1802.817+/-0.258 $\chi^2$/NDF: 1221078.7/47




Right In: -488.104+/-1198.506 $\chi^2$/NDF: 15.8/15

Left Out: 1203.766+/-1831.681 $\chi^2$/NDF:10.5/6

Right Out: 703.324+/-1069.467 $\chi^2$/NDF: 18.8/18

Left In: 862.372+/-2096.605 $\chi^2$/NDF:1.2/5

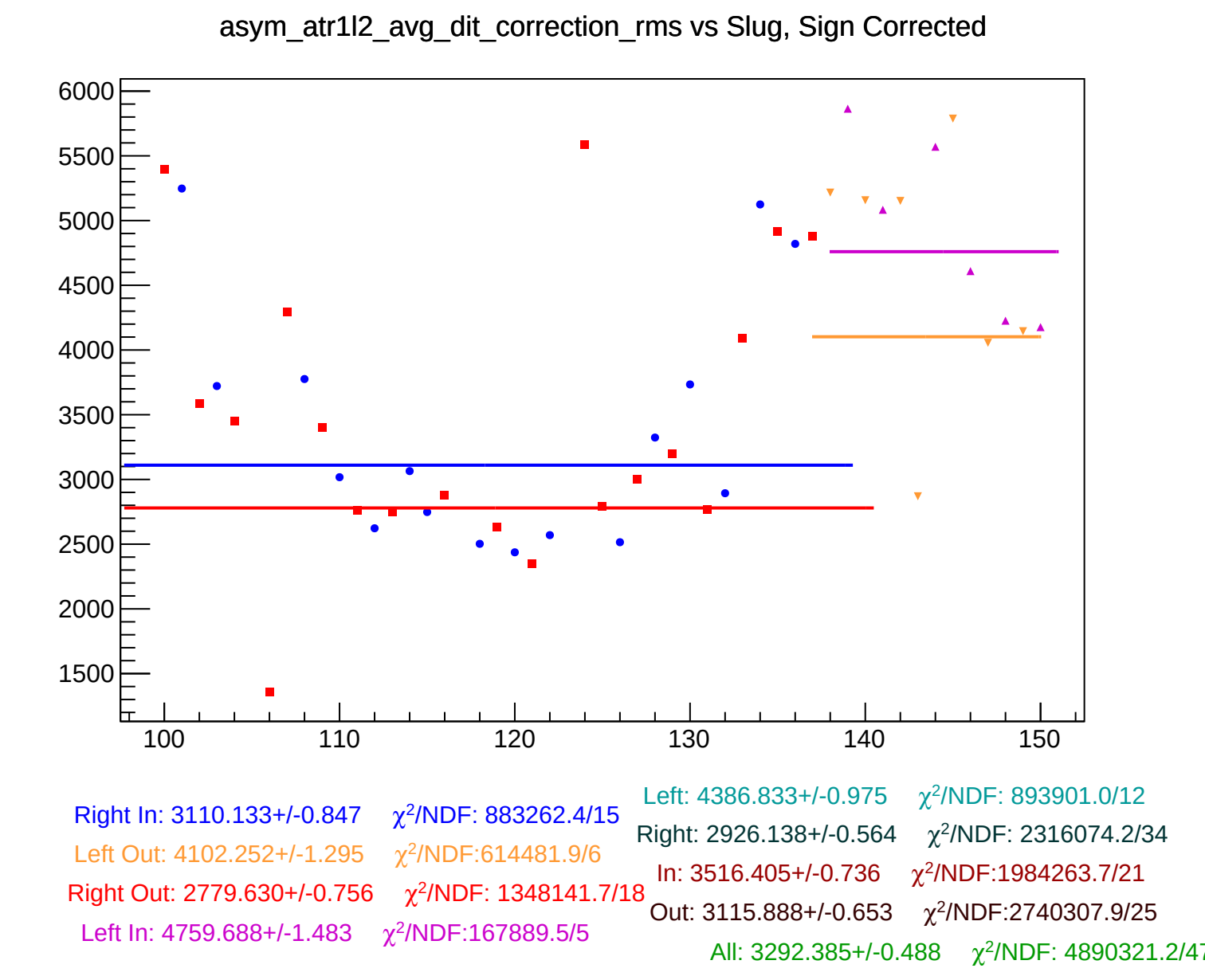
Left: 1055.988+/-1379.409 $\chi^2$/NDF: 11.7/12

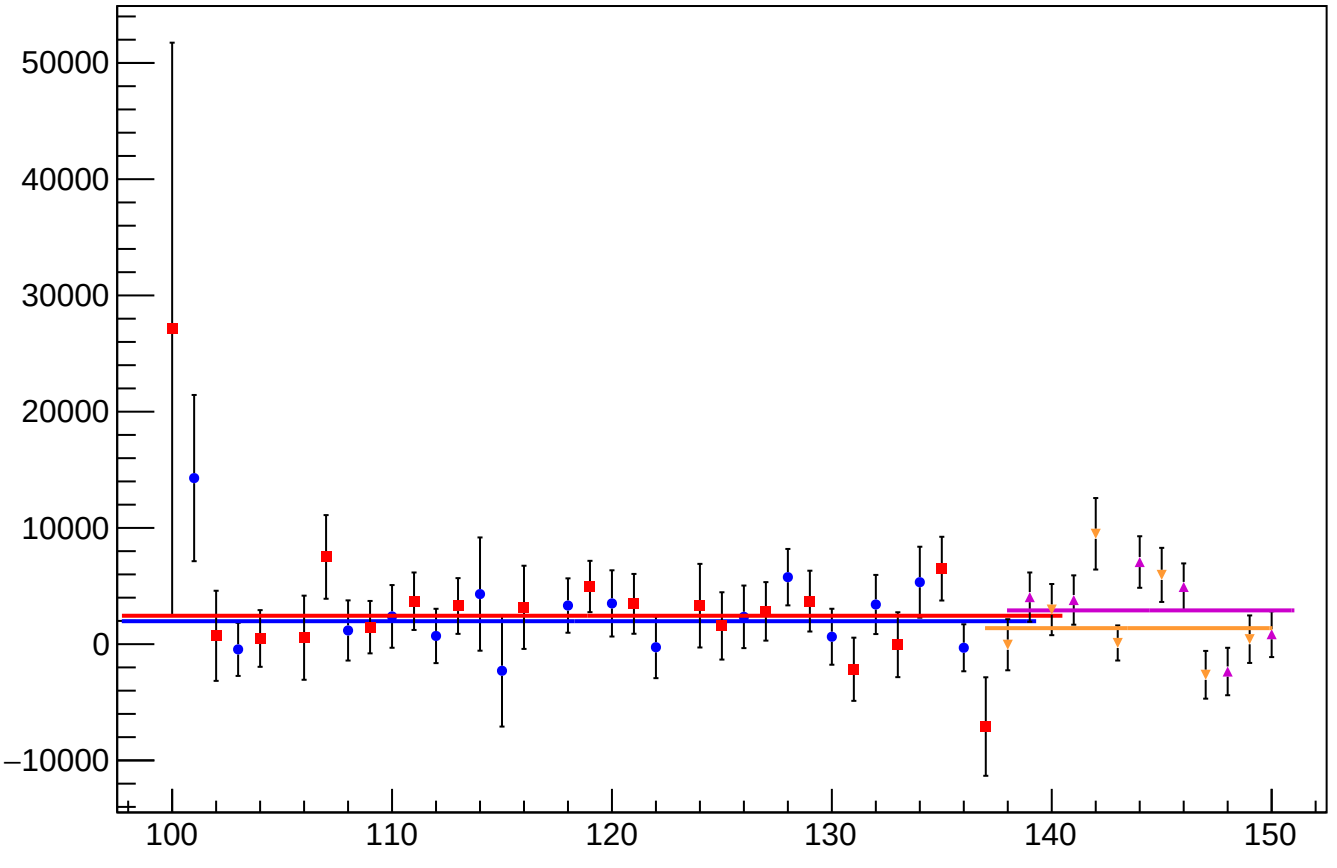
Right: 175.178+/-797.963 $\chi^2$/NDF: 35.1/34

In: -155.493+/-1040.499 $\chi^2$/NDF:17.3/21

Out: 830.554+/-923.567 $\chi^2$/NDF:29.4/25

All: 396.028+/-690.718 $\chi^2$/NDF: 47.2/47


asym_atr1l2_avg_dit_correction_rms vs Slug, Sign Corrected
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
100
110
120
130
140
150
Right In: 3110.133+/-0.847 χ²/NDF: 883262.4/15
Left Out: 4102.252+/-1.295 χ²/NDF:614481.9/6
Right Out: 2779.630+/-0.756 χ²/NDF: 1348141.7/18
Left In: 4759.688+/-1.483 χ²/NDF:167889.5/5
Left: 4386.833+/-0.975 χ²/NDF: 893901.0/12
Right: 2926.138+/-0.564 χ²/NDF: 2316074.2/34
In: 3516.405+/-0.736 χ²/NDF:1984263.7/21
Out: 3115.888+/-0.653 χ²/NDF:2740307.9/25
All: 3292.385+/-0.488 χ²/NDF: 4890321.2/47




Right In: 1975.805+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 1377.693+/-785.894 $\chi^2$/NDF:16.5/6

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 2905.429+/-848.274 $\chi^2$/NDF:12.7/5

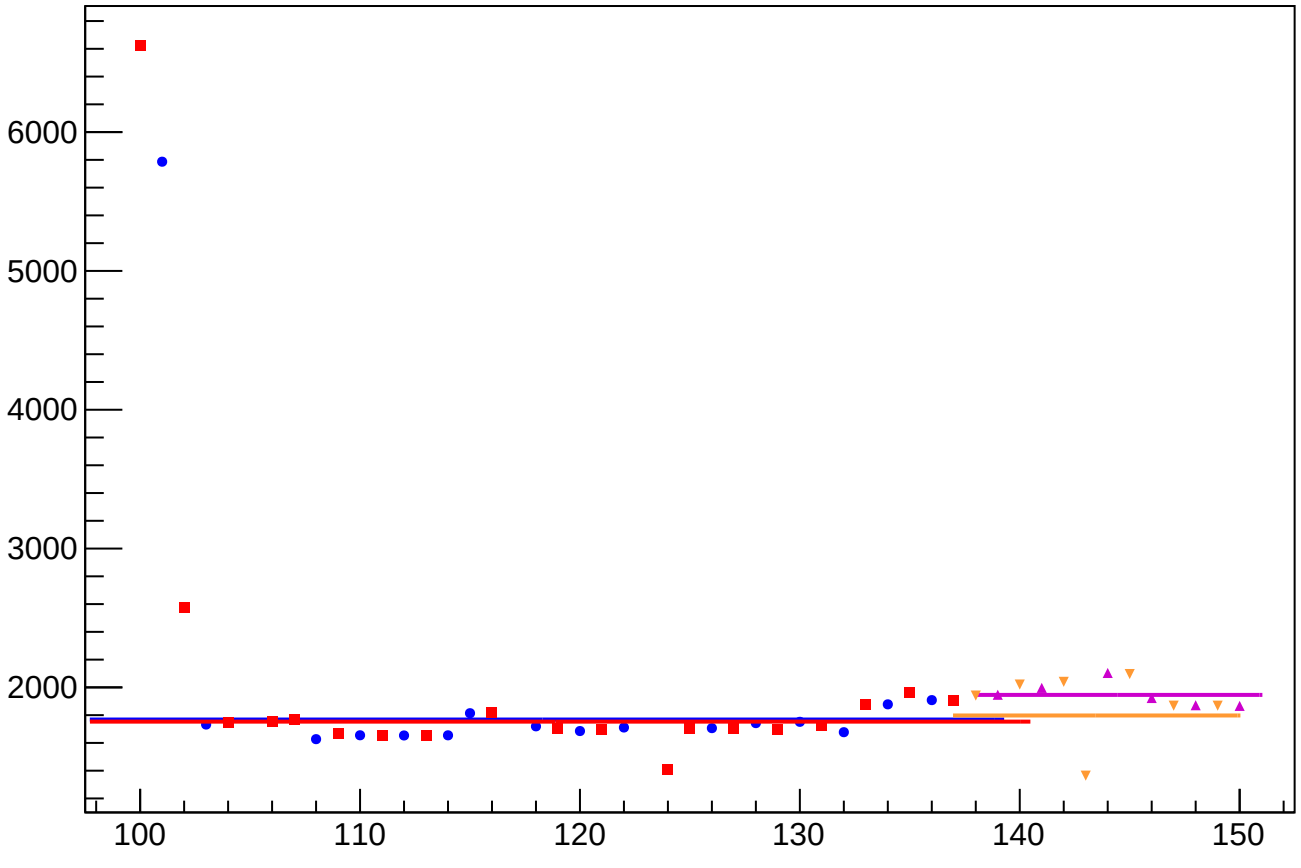
Left: 2083.329+/-576.504 $\chi^2$/NDF: 31.0/12

Right: 2215.771+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2335.625+/-527.746 $\chi^2$/NDF:25.9/21

Out: 2004.927+/-504.370 $\chi^2$/NDF:35.1/25

All: 2162.790+/-364.627 $\chi^2$/NDF: 61.2/47




Right In: 1768.480+/-0.477 $\chi^2$/NDF: 667367.4/15

Left Out: 1797.667+/-0.556 $\chi^2$/NDF:243907.7/6

Right Out: 1753.382+/-0.464 $\chi^2$/NDF: 218864.3/18

Left In: 1945.867+/-0.600 $\chi^2$/NDF:17429.5/5

Left: 1866.118+/-0.408 $\chi^2$/NDF: 294186.9/12

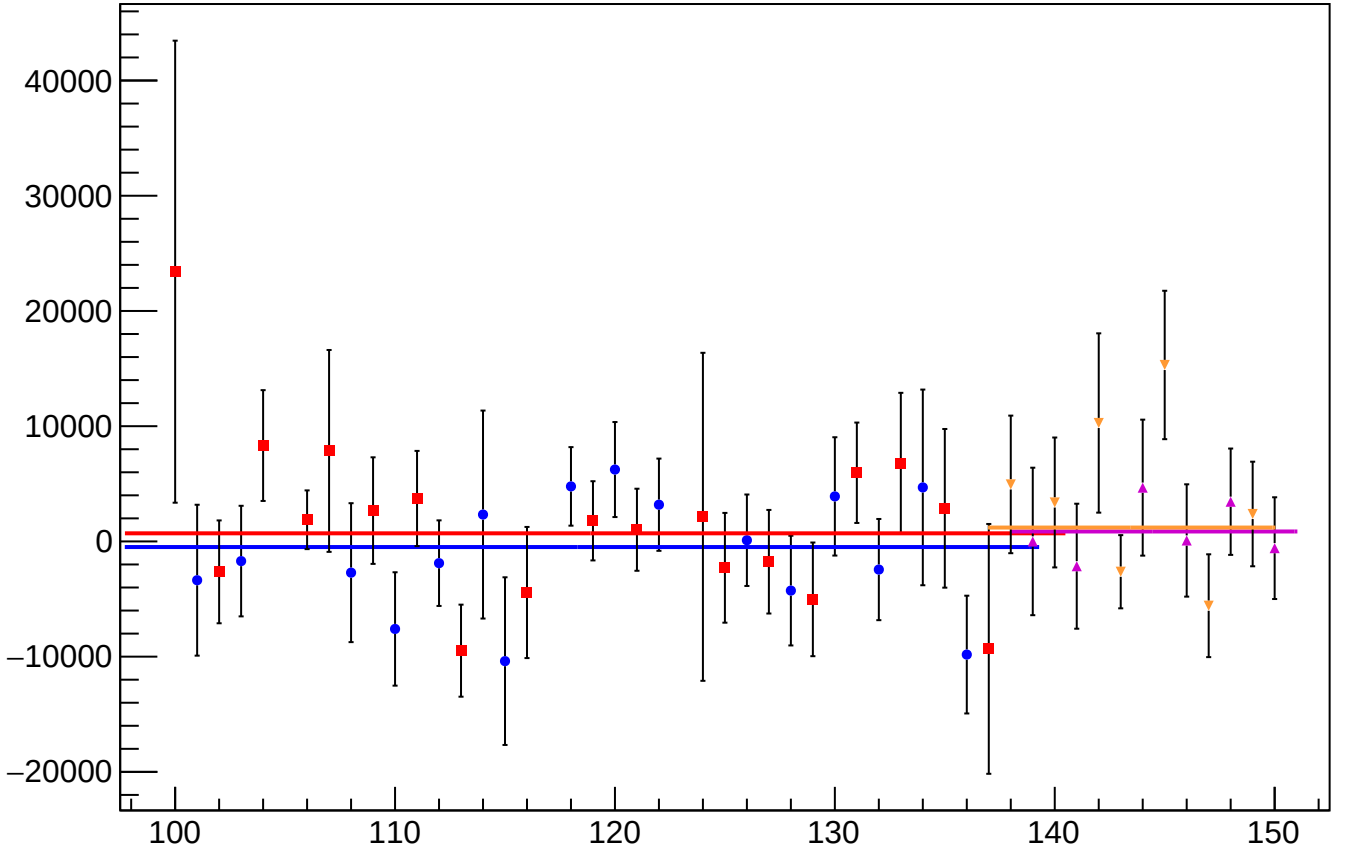
Right: 1760.725+/-0.332 $\chi^2$/NDF: 886747.0/34

In: 1837.139+/-0.373 $\chi^2$/NDF:738403.7/21

Out: 1771.565+/-0.356 $\chi^2$/NDF:466515.1/25

All: 1802.817+/-0.258 $\chi^2$/NDF: 1221080.7/47

asym_atr1l2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -488.098+/-1198.502 $\chi^2$/NDF: 15.8/15

Left Out: 1203.761+/-1831.682 $\chi^2$/NDF:10.5/6

Right Out: 703.325+/-1069.463 $\chi^2$/NDF: 18.8/18

Left In: 862.373+/-2096.607 $\chi^2$/NDF:1.2/5

Left: 1055.986+/-1379.410 $\chi^2$/NDF: 11.7/12

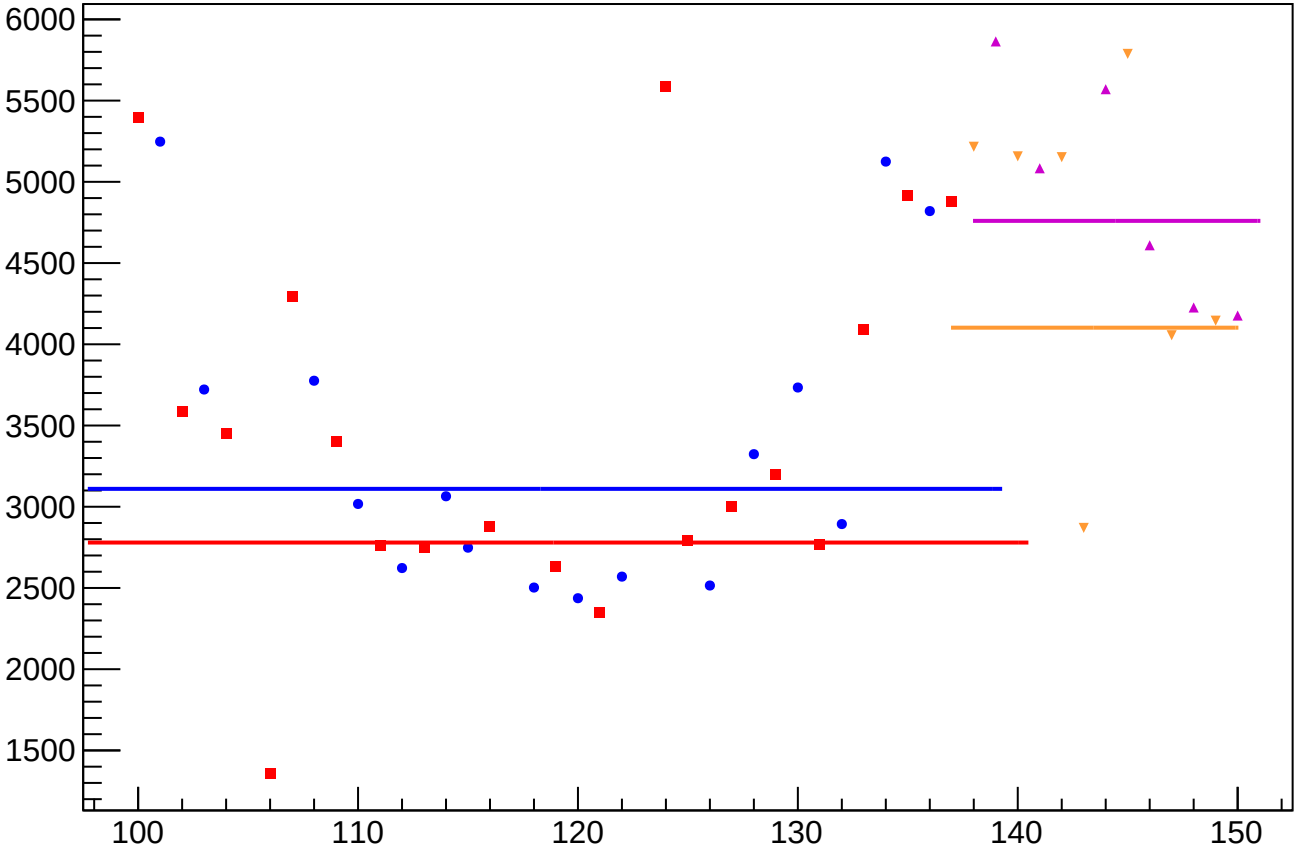
Right: 175.182+/-797.960 $\chi^2$/NDF: 35.1/34

In: -155.490+/-1040.497 $\chi^2$/NDF:17.3/21

Out: 830.553+/-923.564 $\chi^2$/NDF:29.4/25

All: 396.029+/-690.716 $\chi^2$/NDF: 47.2/47

asym_atr1l2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3110.121+/-0.847 $\chi^2$/NDF: 883272.2/15

Left Out: 4102.255+/-1.295 $\chi^2$/NDF:614486.9/6

Right Out: 2779.617+/-0.756 $\chi^2$/NDF: 1348160.7/18

Left In: 4759.692+/-1.483 $\chi^2$/NDF:167892.3/5

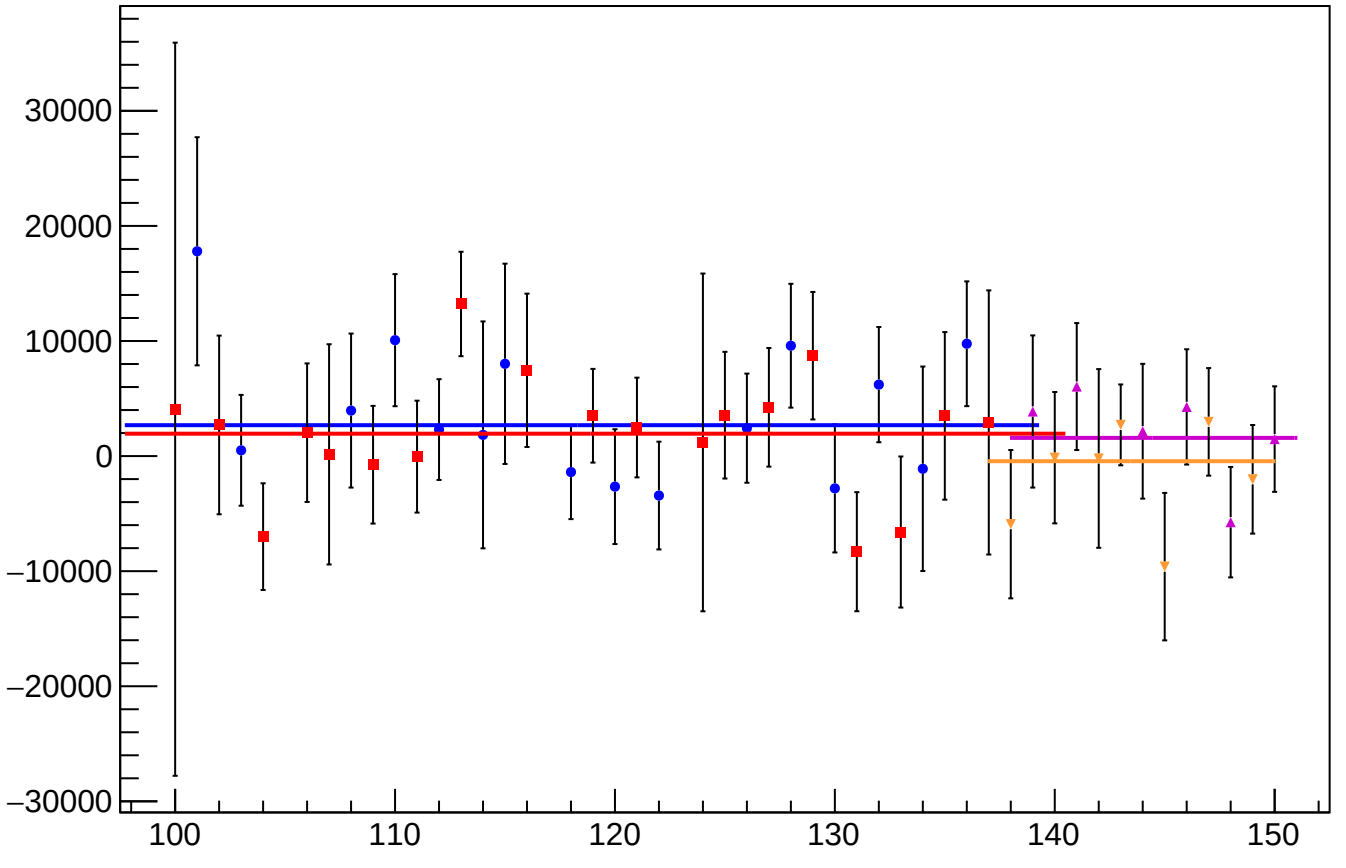
Left: 4386.836+/-0.975 $\chi^2$/NDF: 893909.1/12

Right: 2926.126+/-0.564 $\chi^2$/NDF: 2316104.6/34

In: 3516.395+/-0.736 $\chi^2$/NDF:1984294.1/21

Out: 3115.877+/-0.653 $\chi^2$/NDF:2740350.8/25

All: 3292.375+/-0.488 $\chi^2$/NDF: 4890396.5/47




Right In: 2685.414+/-1379.907 $\chi^2$/NDF: 13.5/15

Left Out: -444.470+/-1933.390 $\chi^2$/NDF:4.2/6

Right Out: 1945.685+/-1332.986 $\chi^2$/NDF: 18.7/18

Left In: 1581.636+/-2152.870 $\chi^2$/NDF:3.4/5

Left: 460.071+/-1438.470 $\chi^2$/NDF: 8.1/12

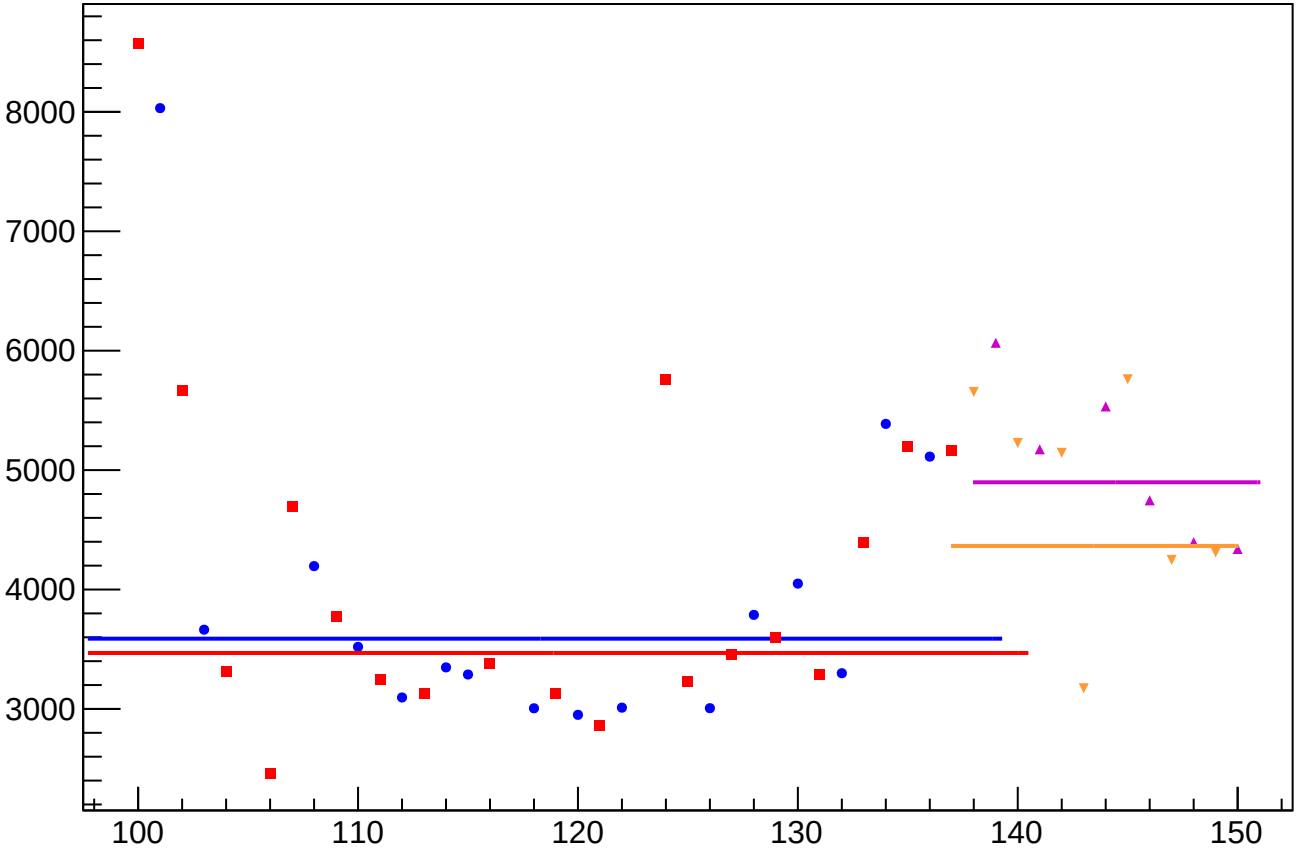
Right: 2302.760+/-958.722 $\chi^2$/NDF: 32.3/34

In: 2363.996+/-1161.749 $\chi^2$/NDF:17.1/21

Out: 1175.591+/-1097.434 $\chi^2$/NDF:24.0/25

All: 1735.989+/-797.771 $\chi^2$/NDF: 41.6/47

# asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 3588.430+/-0.976 $\chi^2$/NDF: 845218.6/15

Left Out: 4364.907+/-1.367 $\chi^2$/NDF:472833.7/6

Right Out: 3468.624+/-0.928 $\chi^2$/NDF: 666541.5/18

Left In: 4897.946+/-1.522 $\chi^2$/NDF:144356.2/5

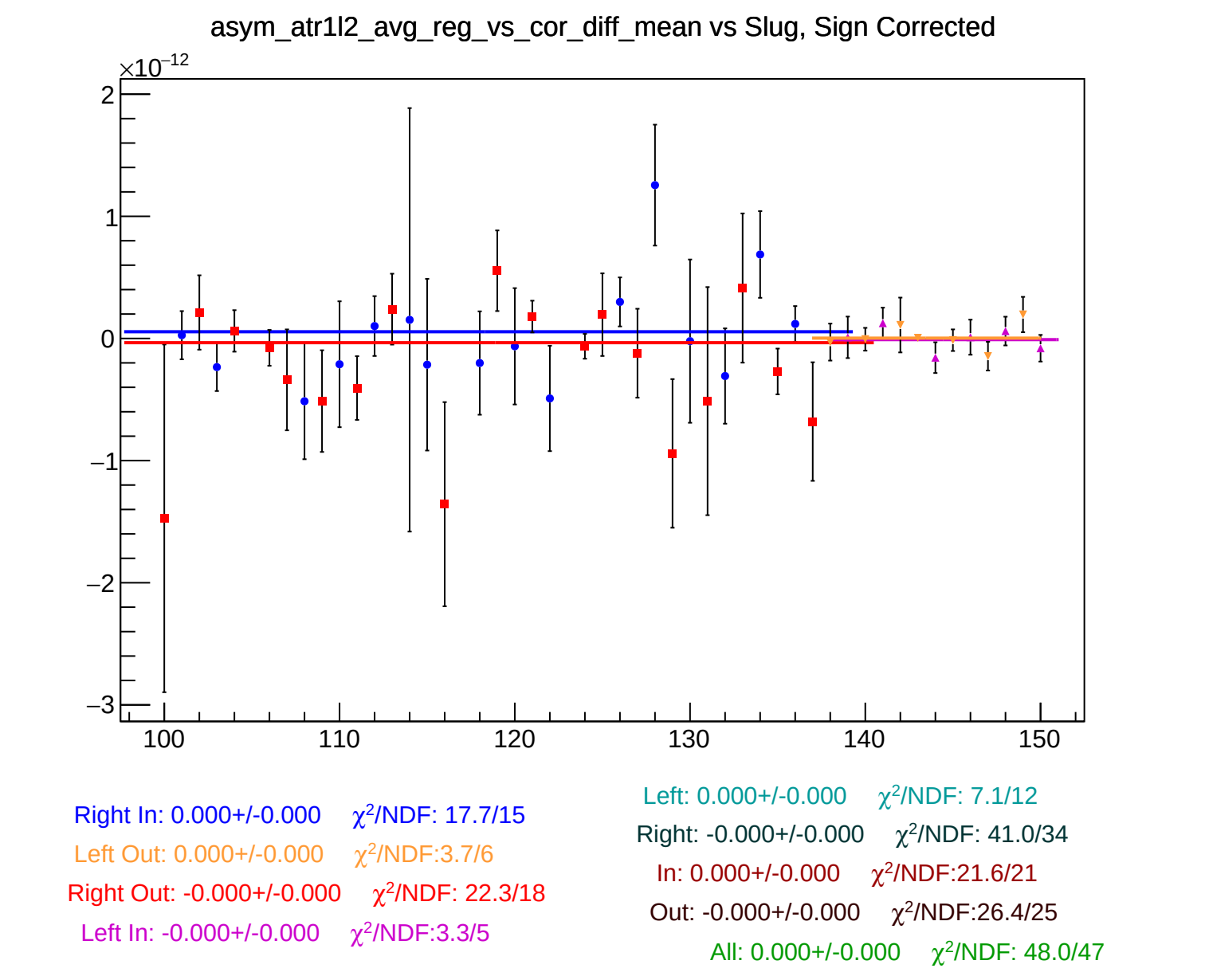
Left: 4602.878+/-1.017 $\chi^2$/NDF: 685059.4/12

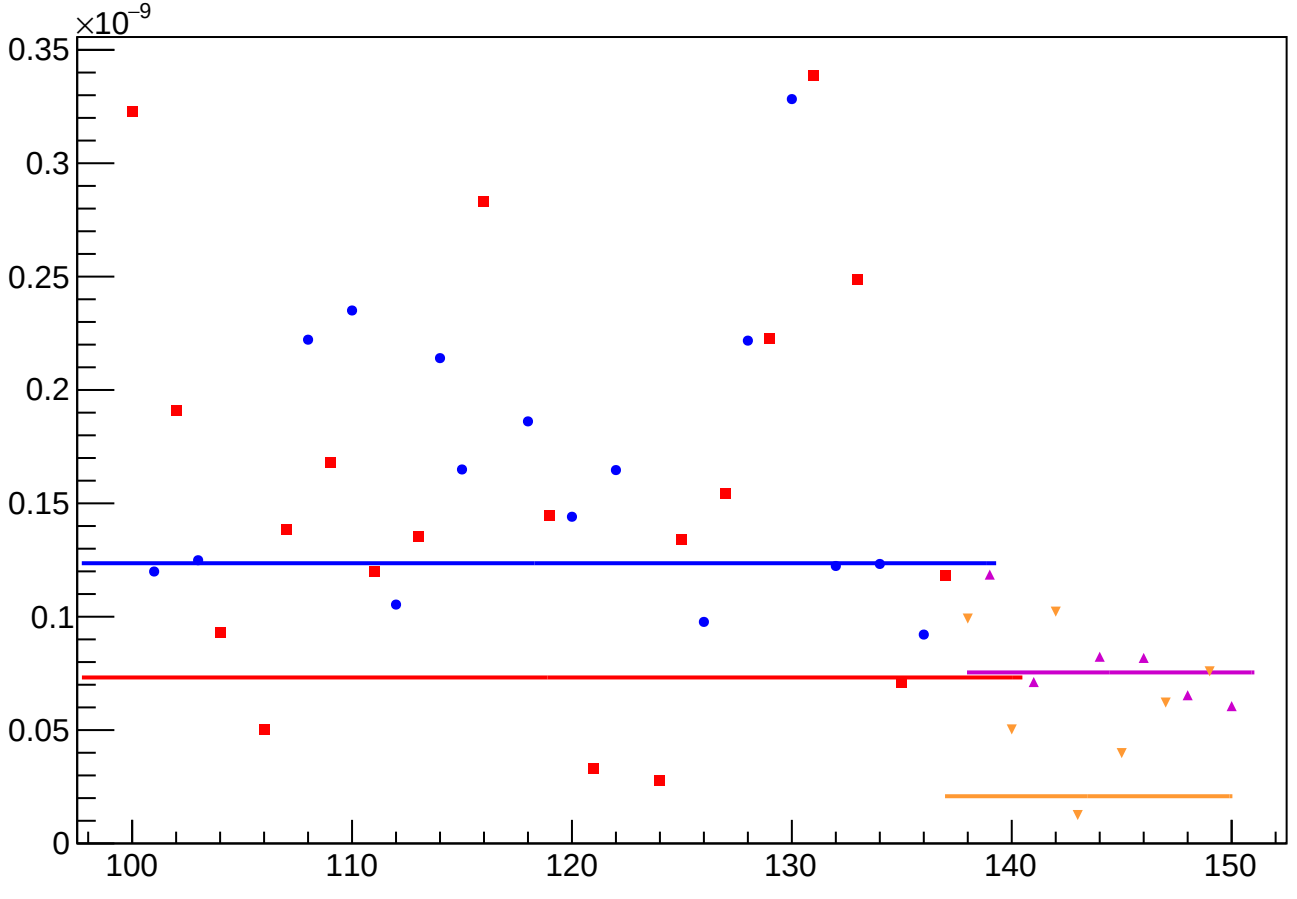
Right: 3525.541+/-0.673 $\chi^2$/NDF: 1519674.0/34

In: 3969.758+/-0.821 $\chi^2$/NDF:1514069.4/21

Out: 3751.443+/-0.768 $\chi^2$/NDF:1433563.2/25

All: 3853.258+/-0.561 $\chi^2$/NDF: 2985321.9/47


asym_atr1l2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 17.7/15
Left Out: 0.000+/-0.000 χ²/NDF:3.7/6
Right Out: -0.000+/-0.000 χ²/NDF: 22.3/18
Left In: -0.000+/-0.000 χ²/NDF:3.3/5
Left: 0.000+/-0.000 χ²/NDF: 7.1/12
Right: -0.000+/-0.000 χ²/NDF: 41.0/34
In: 0.000+/-0.000 χ²/NDF:21.6/21
Out: -0.000+/-0.000 χ²/NDF:26.4/25
All: 0.000+/-0.000 χ²/NDF: 48.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 662149.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1901049.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2188857.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:193051.4/5

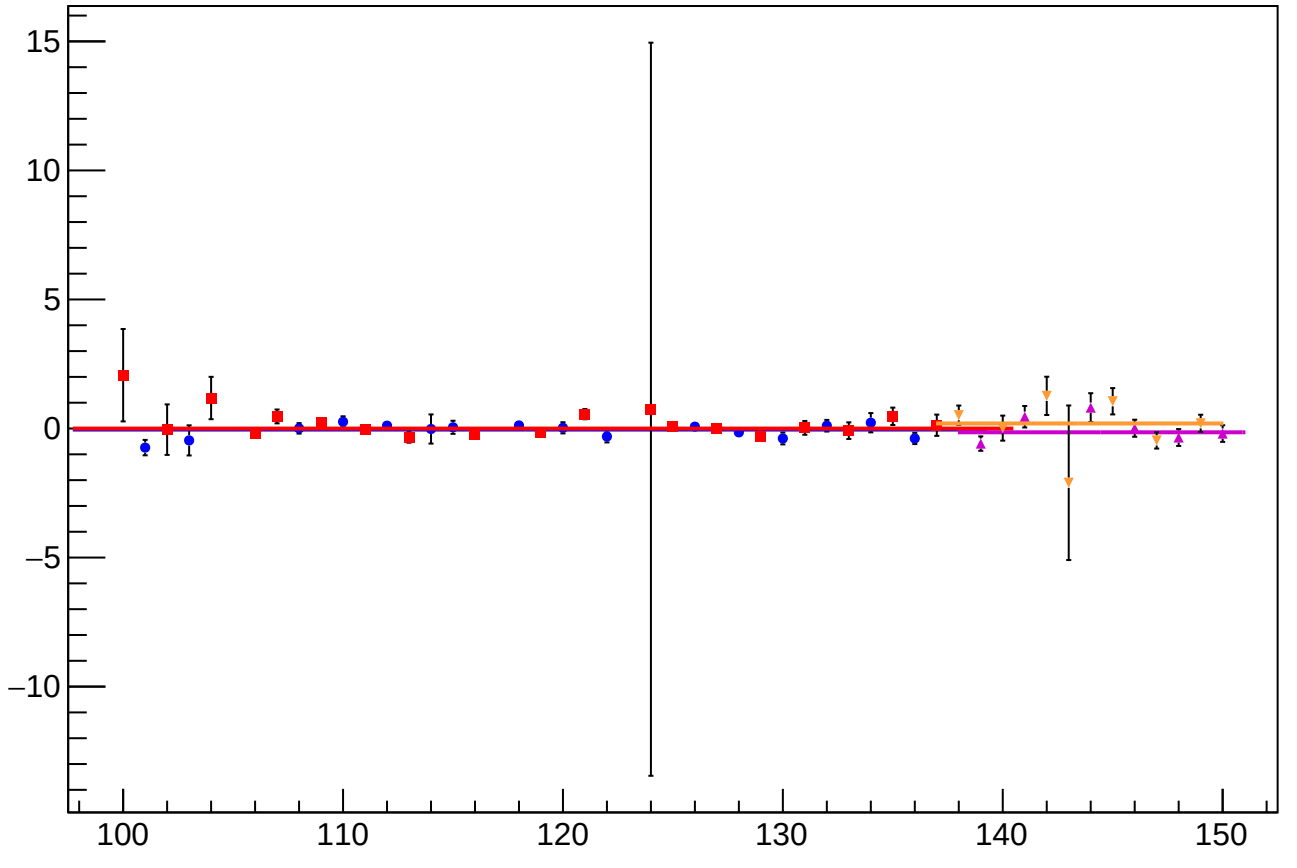
Left: 0.000+/-0.000 $\chi^2$/NDF: 3985465.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3471325.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1428662.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5779225.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11003746.1/47




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.196+/-0.166 $\chi^2$/NDF:10.7/6

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.147+/-0.141 $\chi^2$/NDF:8.1/5

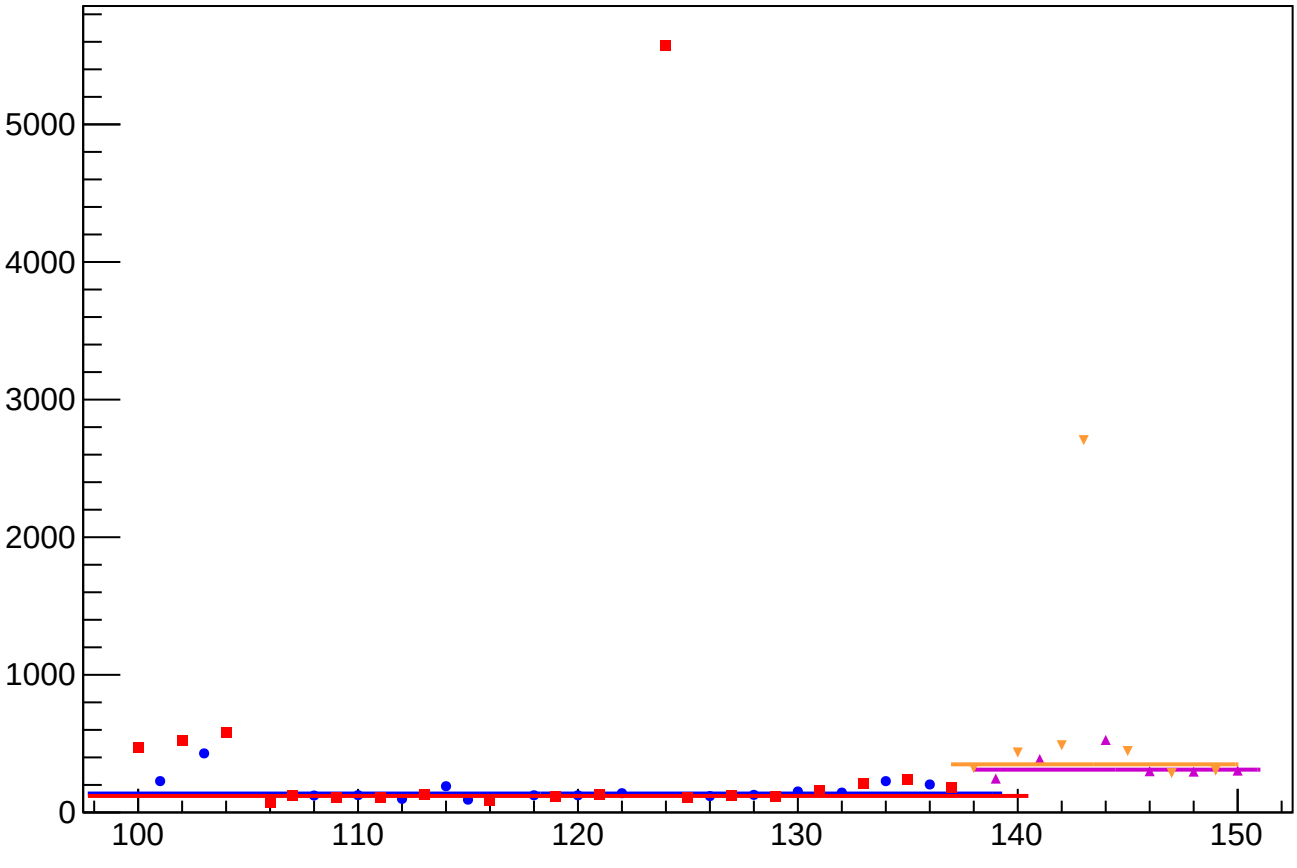
Left: -0.003+/-0.108 $\chi^2$/NDF: 21.3/12

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.054+/-0.052 $\chi^2$/NDF:26.5/21

Out: 0.014+/-0.049 $\chi^2$/NDF:40.7/25

All: -0.018+/-0.036 $\chi^2$/NDF: 68.2/47




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 349.706+/-0.118 $\chi^2$/NDF:1571902.9/6

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 311.062+/-0.100 $\chi^2$/NDF:482861.4/5

Left: 327.299+/-0.076 $\chi^2$/NDF: 2117468.3/12

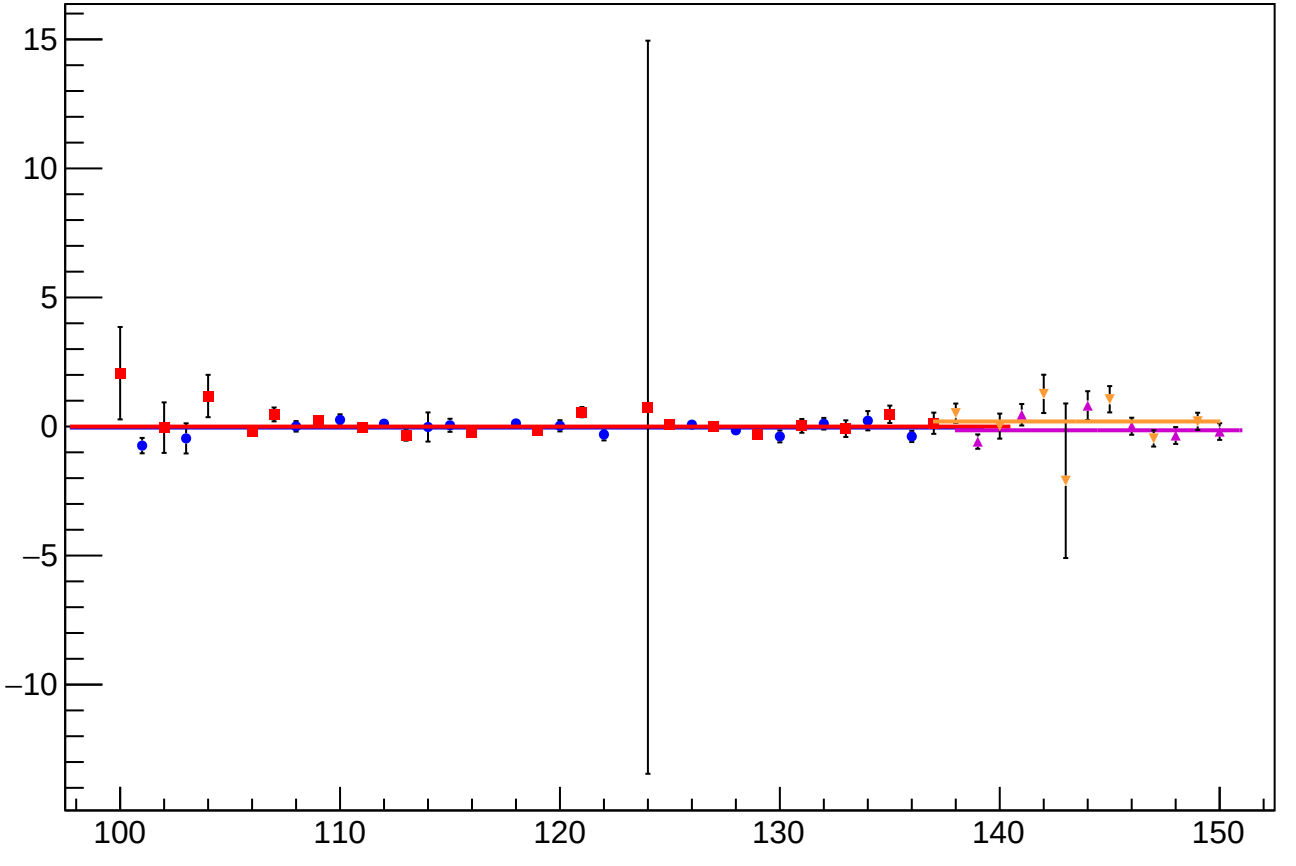
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 160.795+/-0.037 $\chi^2$/NDF:4358993.1/21

Out: 139.723+/-0.034 $\chi^2$/NDF:7204496.4/25

All: 149.583+/-0.025 $\chi^2$/NDF: 11738751.3/47

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.196+/-0.166 $\chi^2$/NDF:10.7/6

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.147+/-0.141 $\chi^2$/NDF:8.1/5

Left: -0.003+/-0.108 $\chi^2$/NDF: 21.3/12

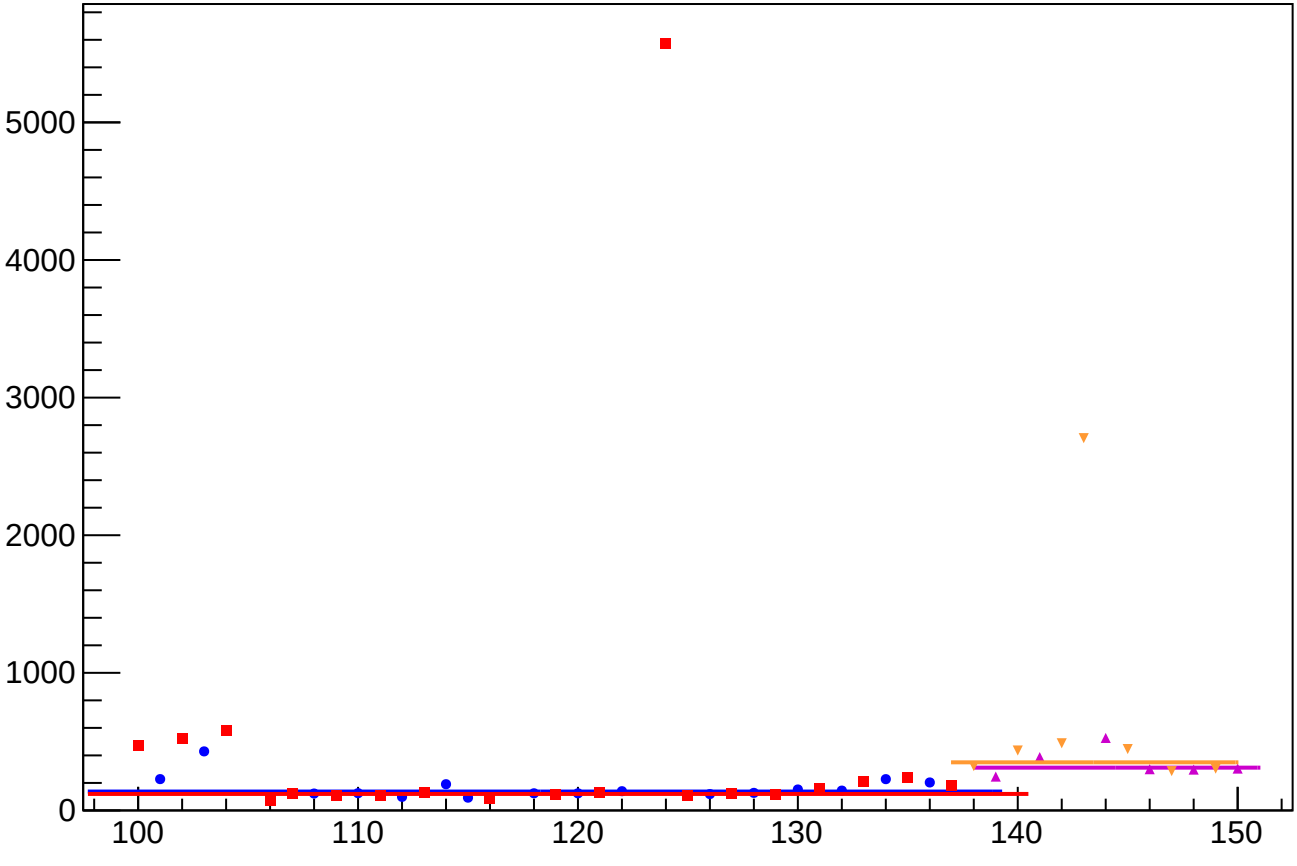
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.054+/-0.052 $\chi^2$/NDF:26.5/21

Out: 0.014+/-0.049 $\chi^2$/NDF:40.7/25

All: -0.018+/-0.036 $\chi^2$/NDF: 68.2/47

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 349.706+/-0.118 $\chi^2$/NDF:1571902.9/6

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 311.062+/-0.100 $\chi^2$/NDF:482861.4/5

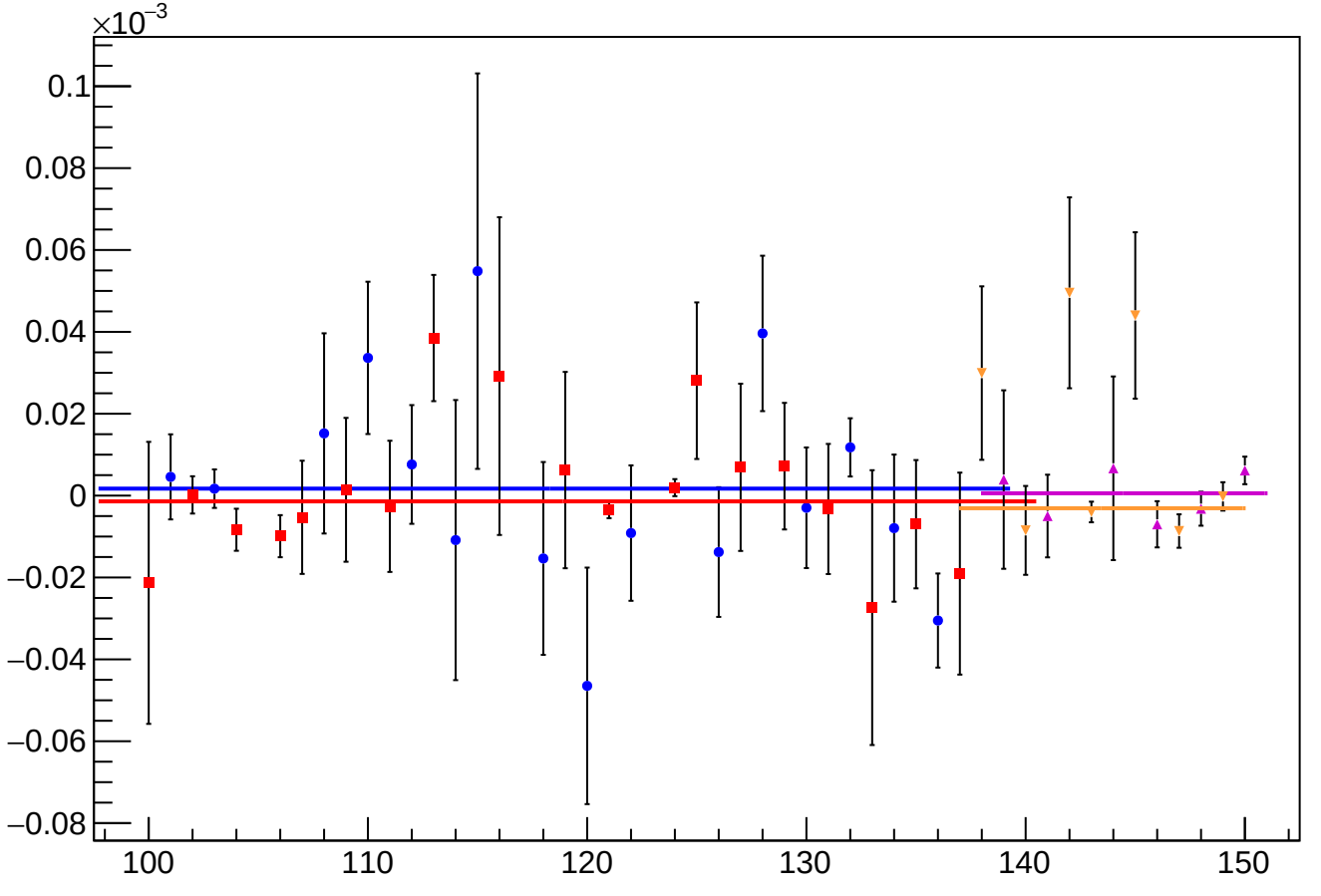
Left: 327.299+/-0.076 $\chi^2$/NDF: 2117468.3/12

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 160.795+/-0.037 $\chi^2$/NDF:4358993.1/21

Out: 139.723+/-0.034 $\chi^2$/NDF:7204496.4/25

All: 149.583+/-0.025 $\chi^2$/NDF: 11738751.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.8/5

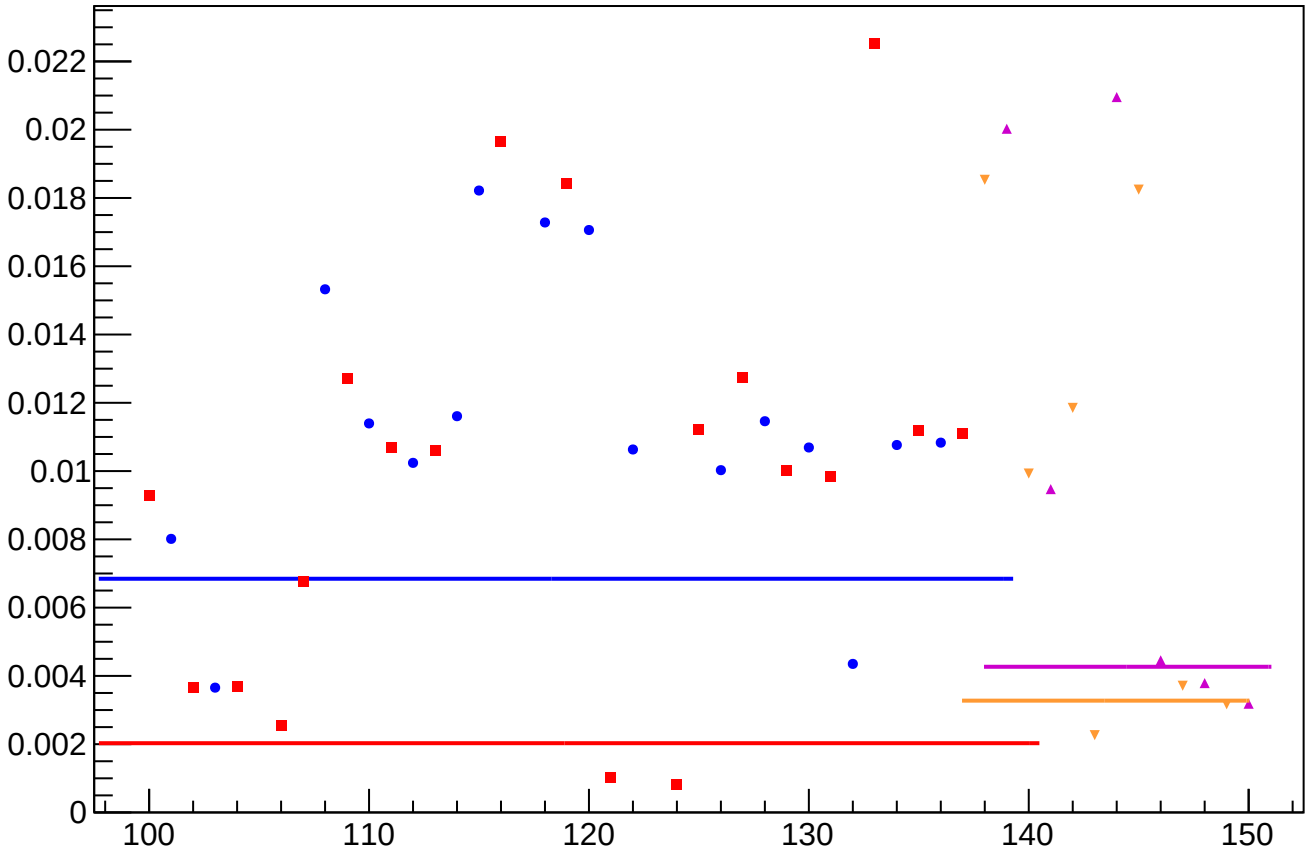
Left: -0.000+/-0.000 $\chi^2$/NDF: 23.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:29.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:36.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 68.4/47




Right In: 0.007+/-0.000 $\chi^2$/NDF: 3230112.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3491070.0/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9007527.0/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:2919415.5/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 6645505.3/12

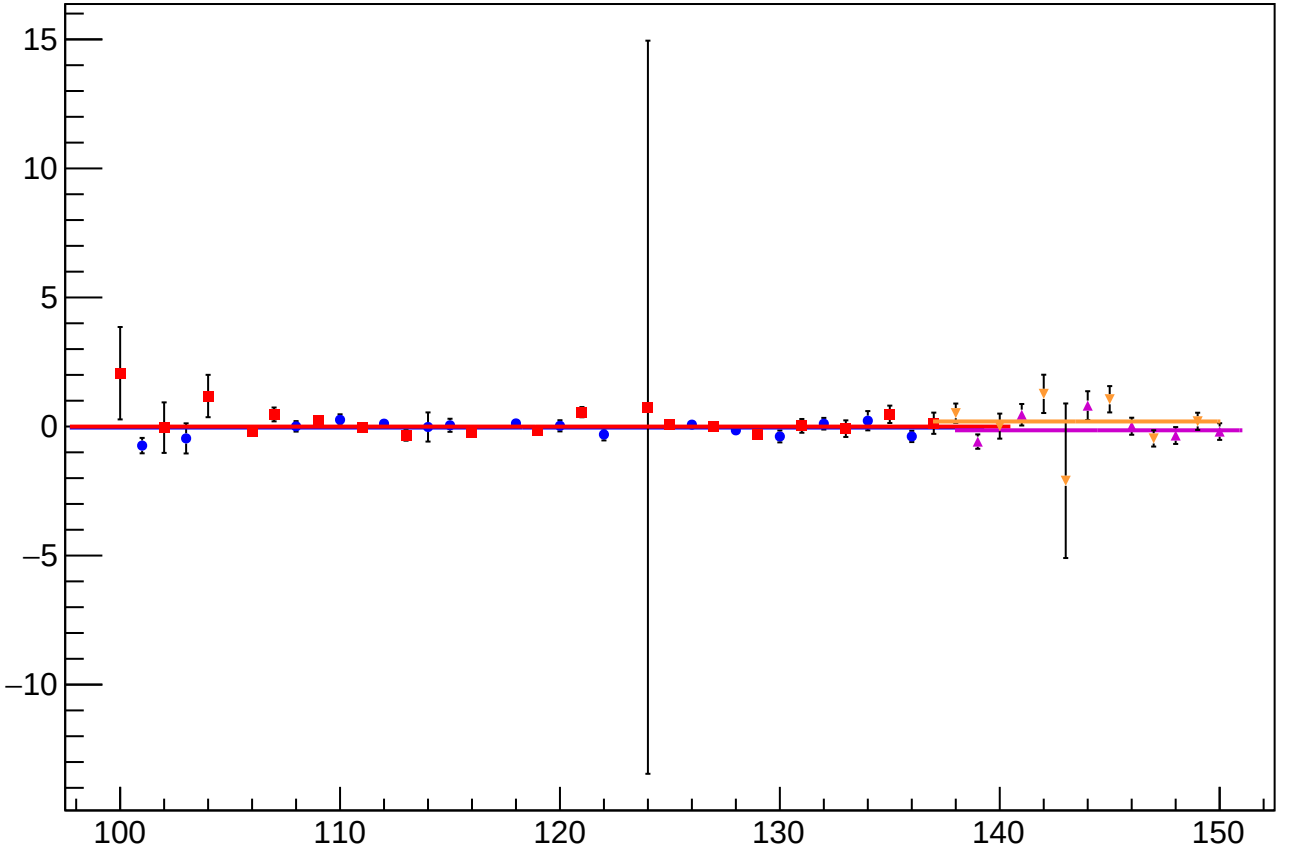
Right: 0.003+/-0.000 $\chi^2$/NDF: 16707172.2/34

In: 0.005+/-0.000 $\chi^2$/NDF:7097783.6/21

Out: 0.002+/-0.000 $\chi^2$/NDF:13153596.3/25

All: 0.003+/-0.000 $\chi^2$/NDF: 23830314.3/47

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.196+/-0.166 $\chi^2$/NDF:10.7/6

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.147+/-0.141 $\chi^2$/NDF:8.1/5

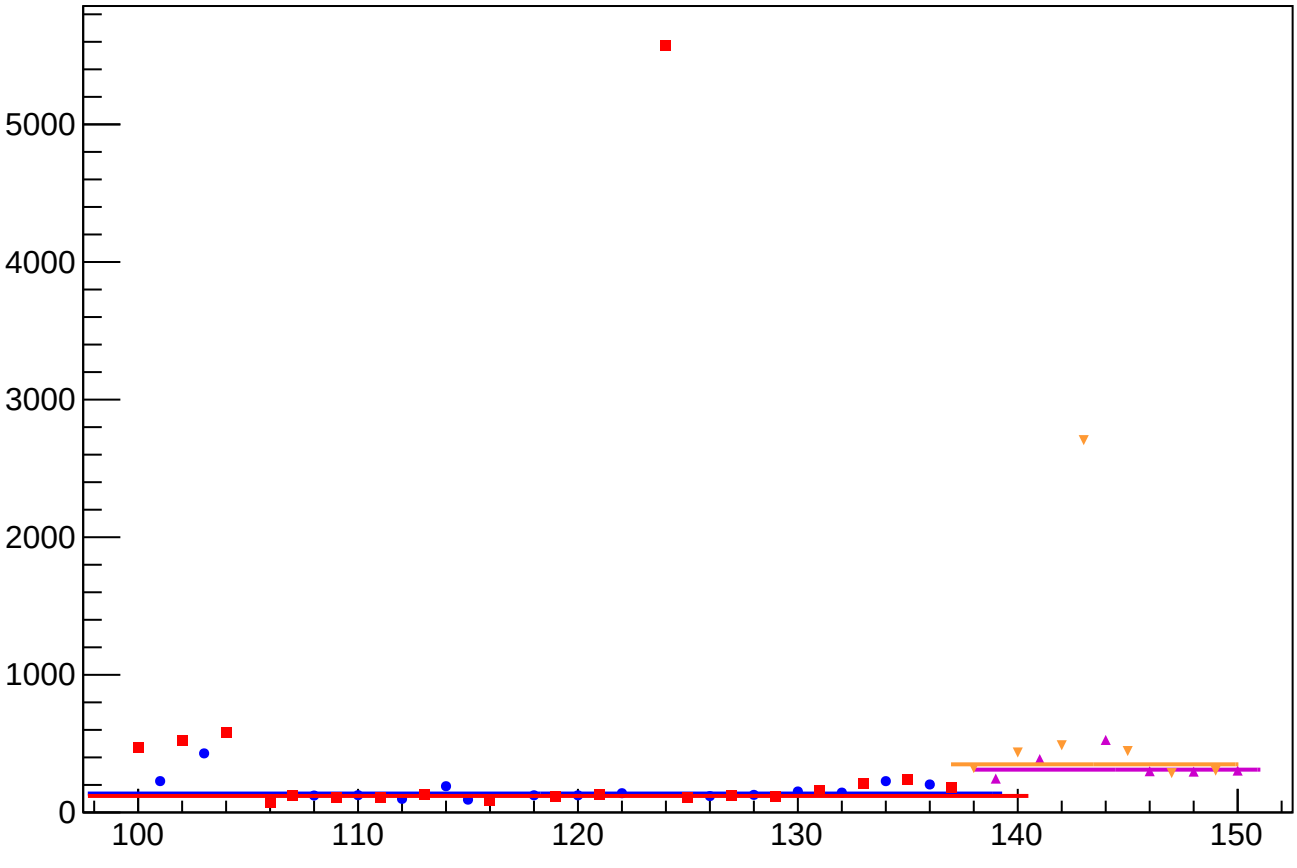
Left: -0.003+/-0.108 $\chi^2$/NDF: 21.3/12

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.054+/-0.052 $\chi^2$/NDF:26.5/21

Out: 0.014+/-0.049 $\chi^2$/NDF:40.7/25

All: -0.018+/-0.036 $\chi^2$/NDF: 68.2/47




Right In: 137.400+/-0.039 $\chi^2$/NDF: 1268197.9/15

Left Out: 349.708+/-0.118 $\chi^2$/NDF:1571930.5/6

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 311.066+/-0.100 $\chi^2$/NDF:482849.3/5

Left: 327.302+/-0.076 $\chi^2$/NDF: 2117476.4/12

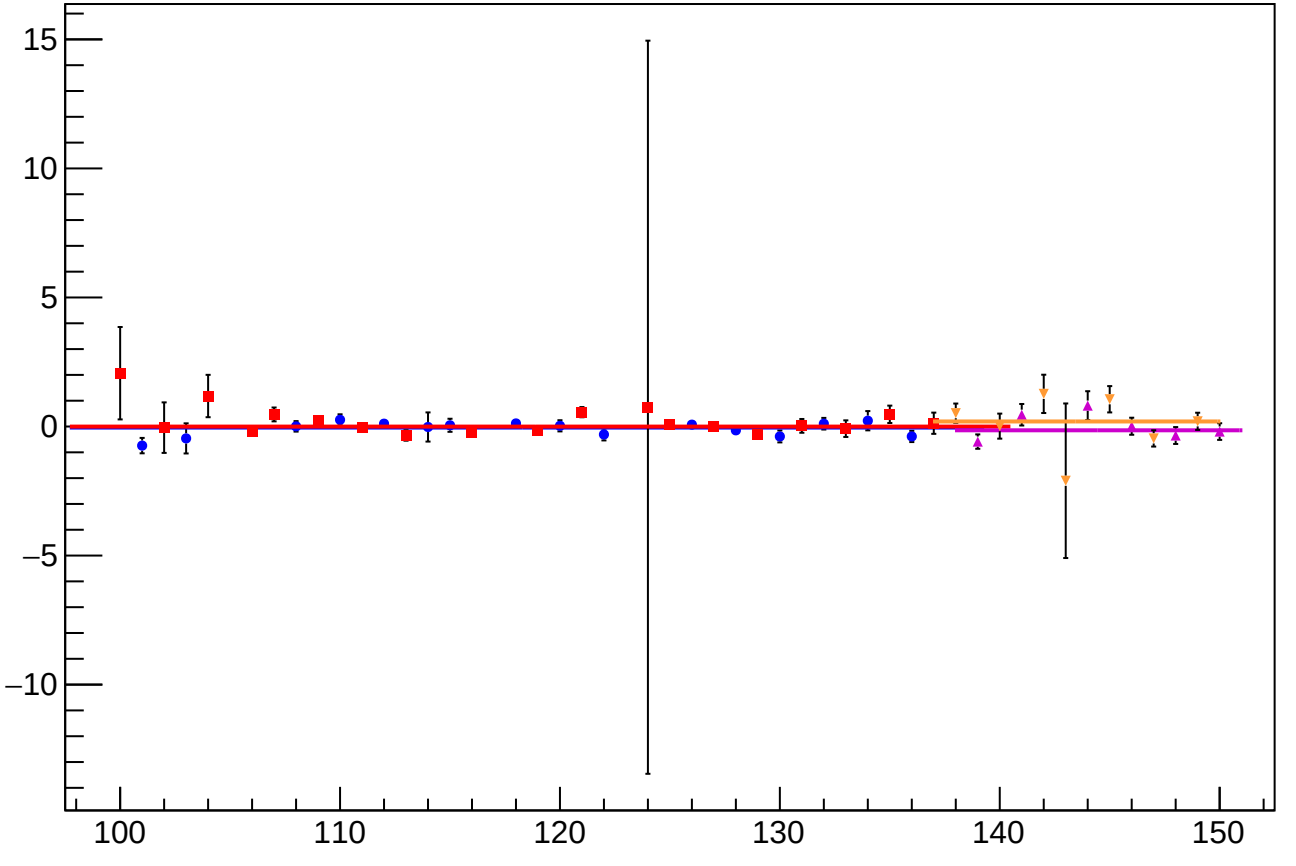
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 160.796+/-0.037 $\chi^2$/NDF:4358951.2/21

Out: 139.723+/-0.034 $\chi^2$/NDF:7204467.3/25

All: 149.583+/-0.025 $\chi^2$/NDF: 11738697.9/47

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.196+/-0.166 $\chi^2$/NDF:10.7/6

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.147+/-0.141 $\chi^2$/NDF:8.1/5

Left: -0.003+/-0.108 $\chi^2$/NDF: 21.3/12

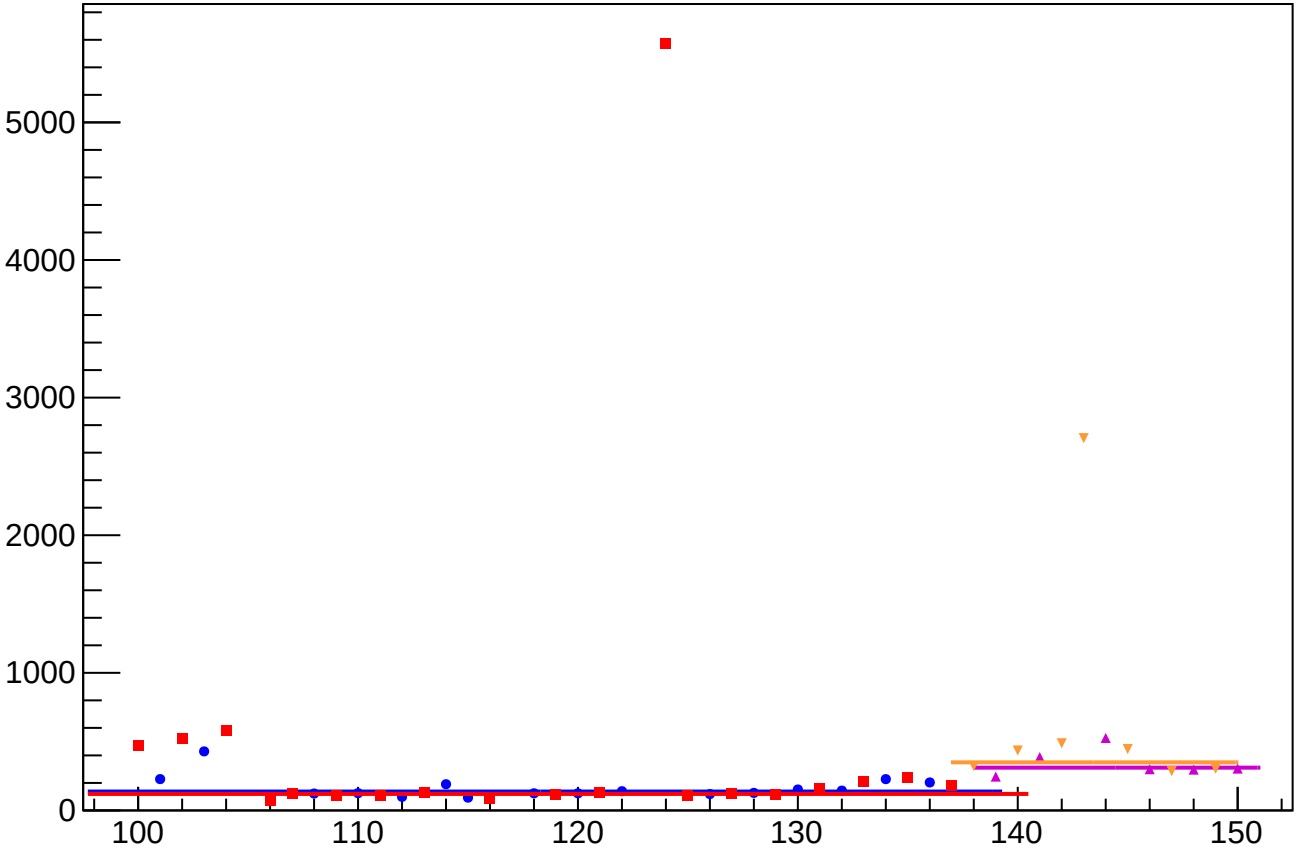
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.054+/-0.052 $\chi^2$/NDF:26.5/21

Out: 0.014+/-0.049 $\chi^2$/NDF:40.7/25

All: -0.018+/-0.036 $\chi^2$/NDF: 68.2/47

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.400+/-0.039 $\chi^2$/NDF: 1268197.9/15

Left Out: 349.708+/-0.118 $\chi^2$/NDF:1571930.5/6

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 311.066+/-0.100 $\chi^2$/NDF:482849.3/5

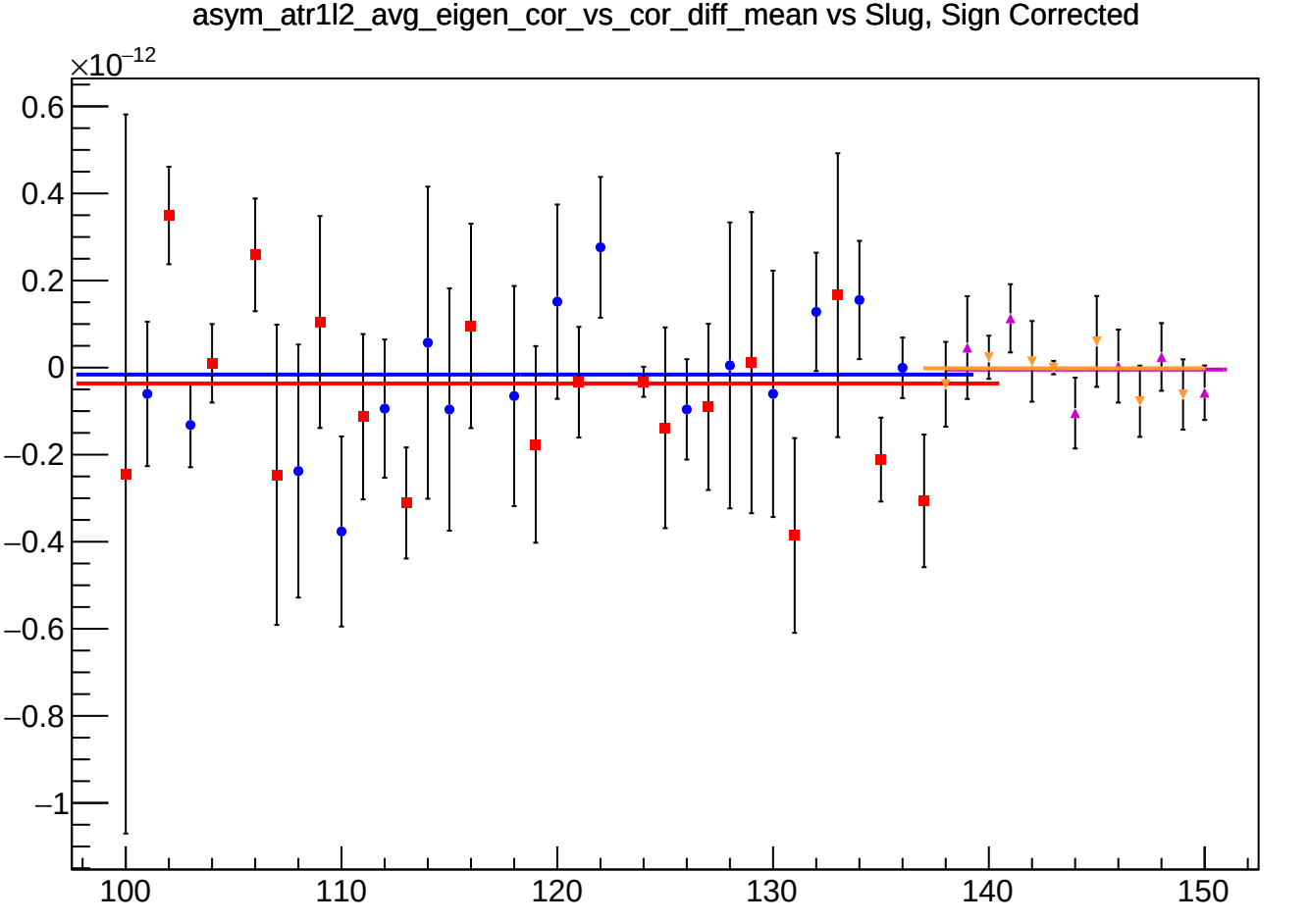
Left: 327.302+/-0.076 $\chi^2$/NDF: 2117476.4/12

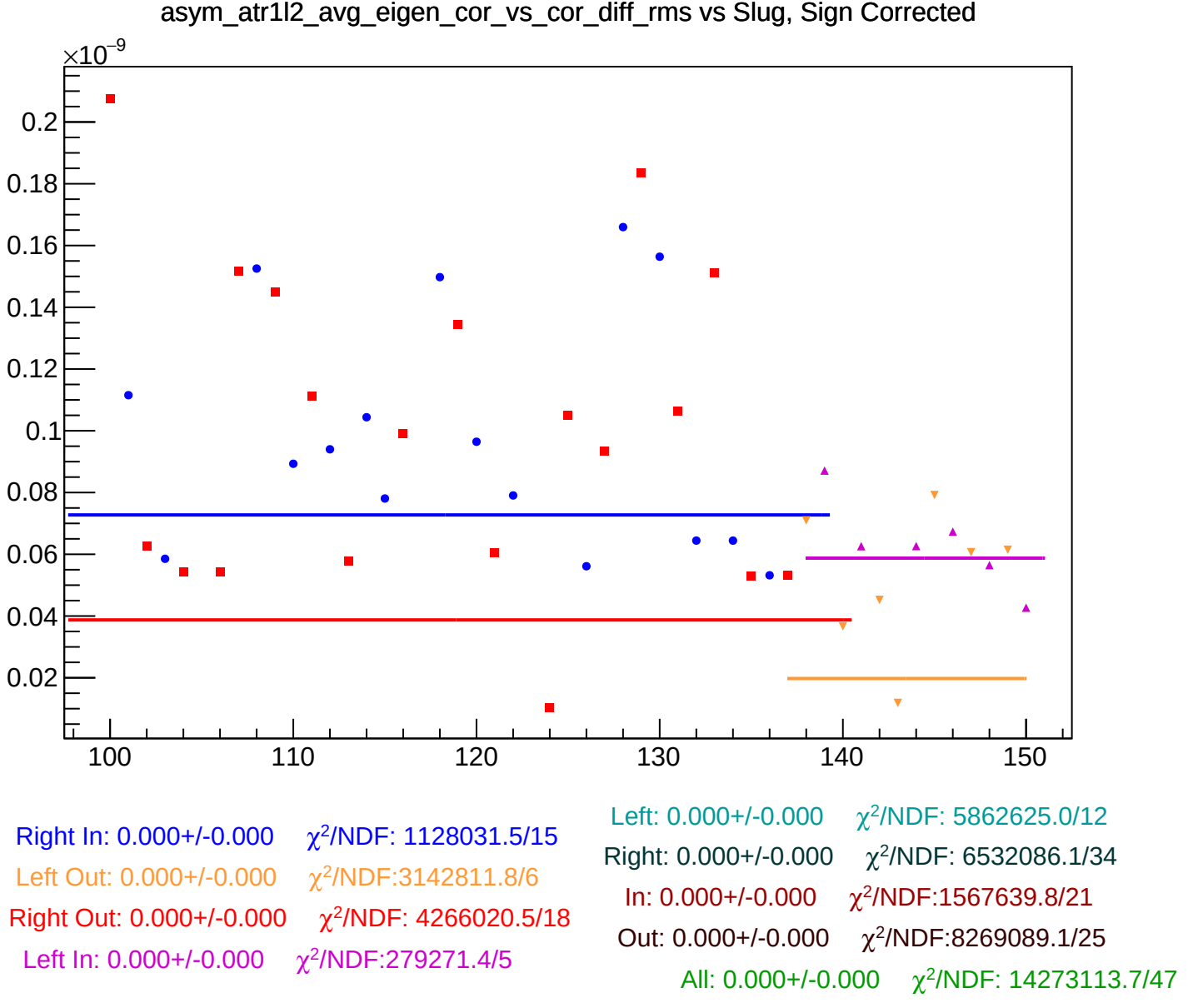
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 160.796+/-0.037 $\chi^2$/NDF:4358951.2/21

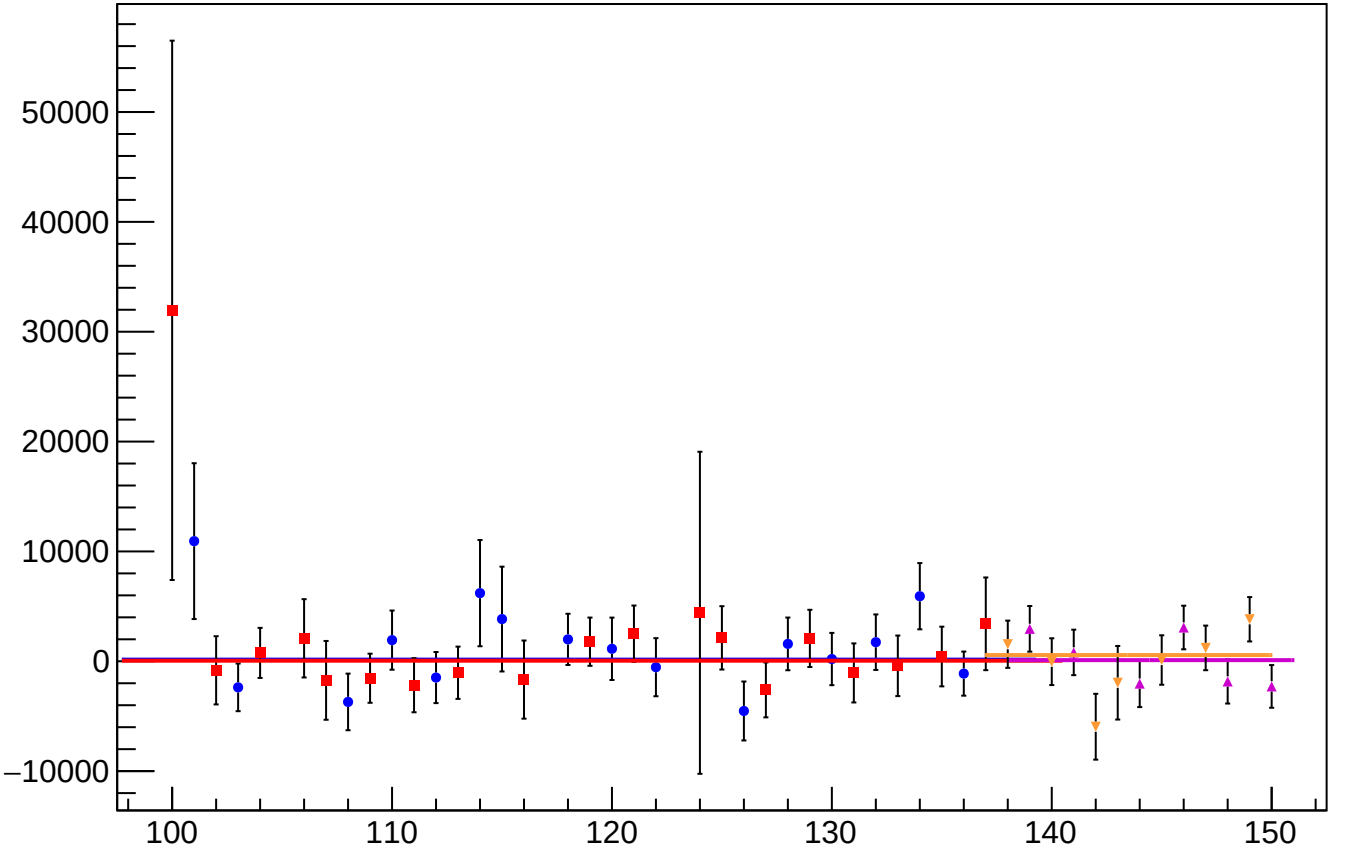
Out: 139.723+/-0.034 $\chi^2$/NDF:7204467.3/25

All: 149.583+/-0.025 $\chi^2$/NDF: 11738697.9/47


asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 12.3/15
Left Out: -0.000+/-0.000 χ²/NDF:2.2/6
Right Out: -0.000+/-0.000 χ²/NDF: 33.2/18
Left In: -0.000+/-0.000 χ²/NDF:4.8/5
Left: -0.000+/-0.000 χ²/NDF: 7.0/12
Right: -0.000+/-0.000 χ²/NDF: 45.7/34
In: -0.000+/-0.000 χ²/NDF:17.2/21
Out: -0.000+/-0.000 χ²/NDF:36.8/25
All: -0.000+/-0.000 χ²/NDF: 54.0/47


asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1128031.5/15
Left Out: 0.000+/-0.000 χ²/NDF:3142811.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 4266020.5/18
Left In: 0.000+/-0.000 χ²/NDF:279271.4/5
Left: 0.000+/-0.000 χ²/NDF: 5862625.0/12
Right: 0.000+/-0.000 χ²/NDF: 6532086.1/34
In: 0.000+/-0.000 χ²/NDF:1567639.8/21
Out: 0.000+/-0.000 χ²/NDF:8269089.1/25
All: 0.000+/-0.000 χ²/NDF: 14273113.7/47

# reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.722+/-667.029 $\chi^2$/NDF: 17.7/15

Left Out: 563.403+/-869.521 $\chi^2$/NDF:8.3/6

Right Out: 54.106+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 102.490+/-830.515 $\chi^2$/NDF:7.7/5

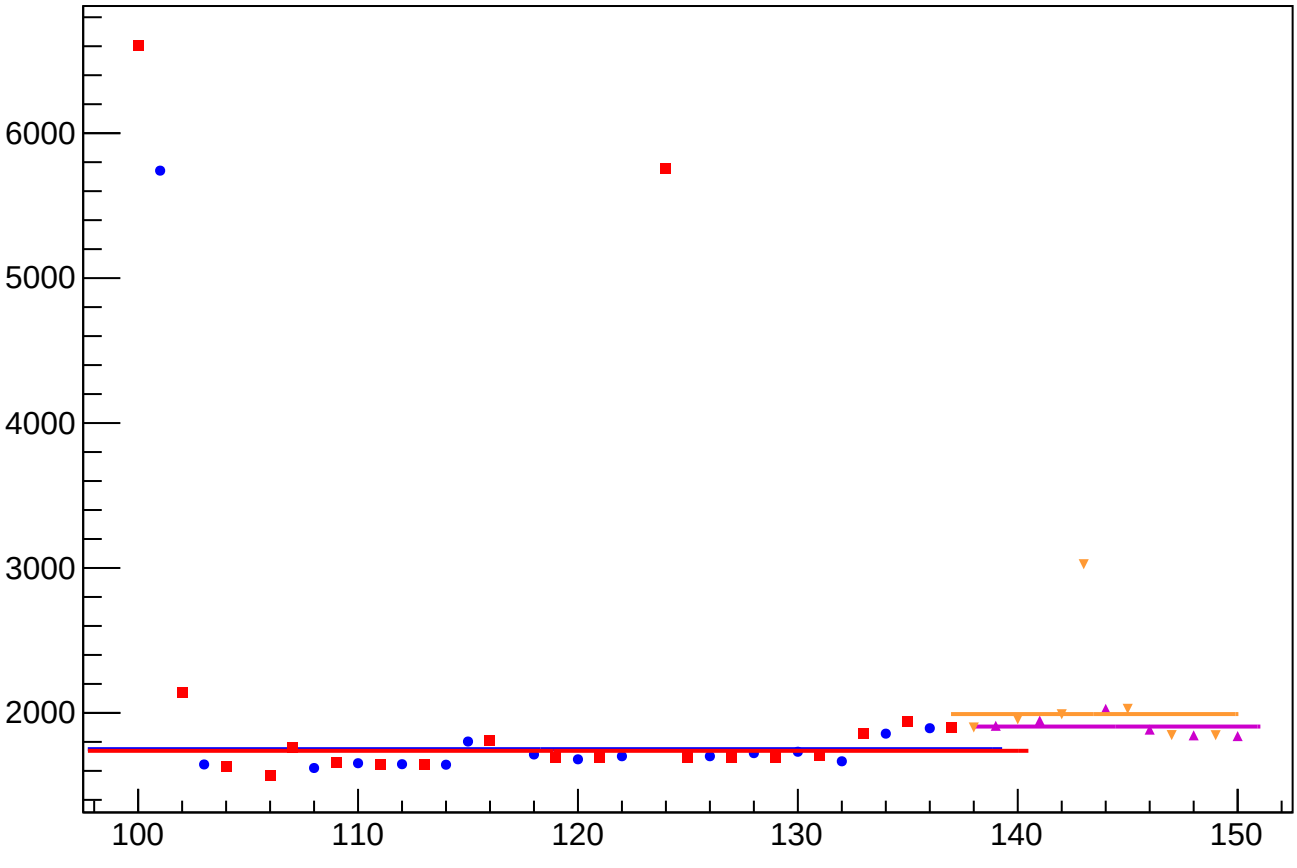
Left: 322.377+/-600.579 $\chi^2$/NDF: 16.2/12

Right: 101.554+/-467.446 $\chi^2$/NDF: 26.6/34

In: 131.809+/-520.062 $\chi^2$/NDF:25.3/21

Out: 238.577+/-523.309 $\chi^2$/NDF:17.5/25

All: 184.861+/-368.882 $\chi^2$/NDF: 42.9/47




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.0/15

Left Out: 1991.991+/-0.615 $\chi^2$/NDF:216042.7/6

Right Out: 1738.493+/-0.460 $\chi^2$/NDF: 304493.3/18

Left In: 1905.850+/-0.587 $\chi^2$/NDF:11678.4/5

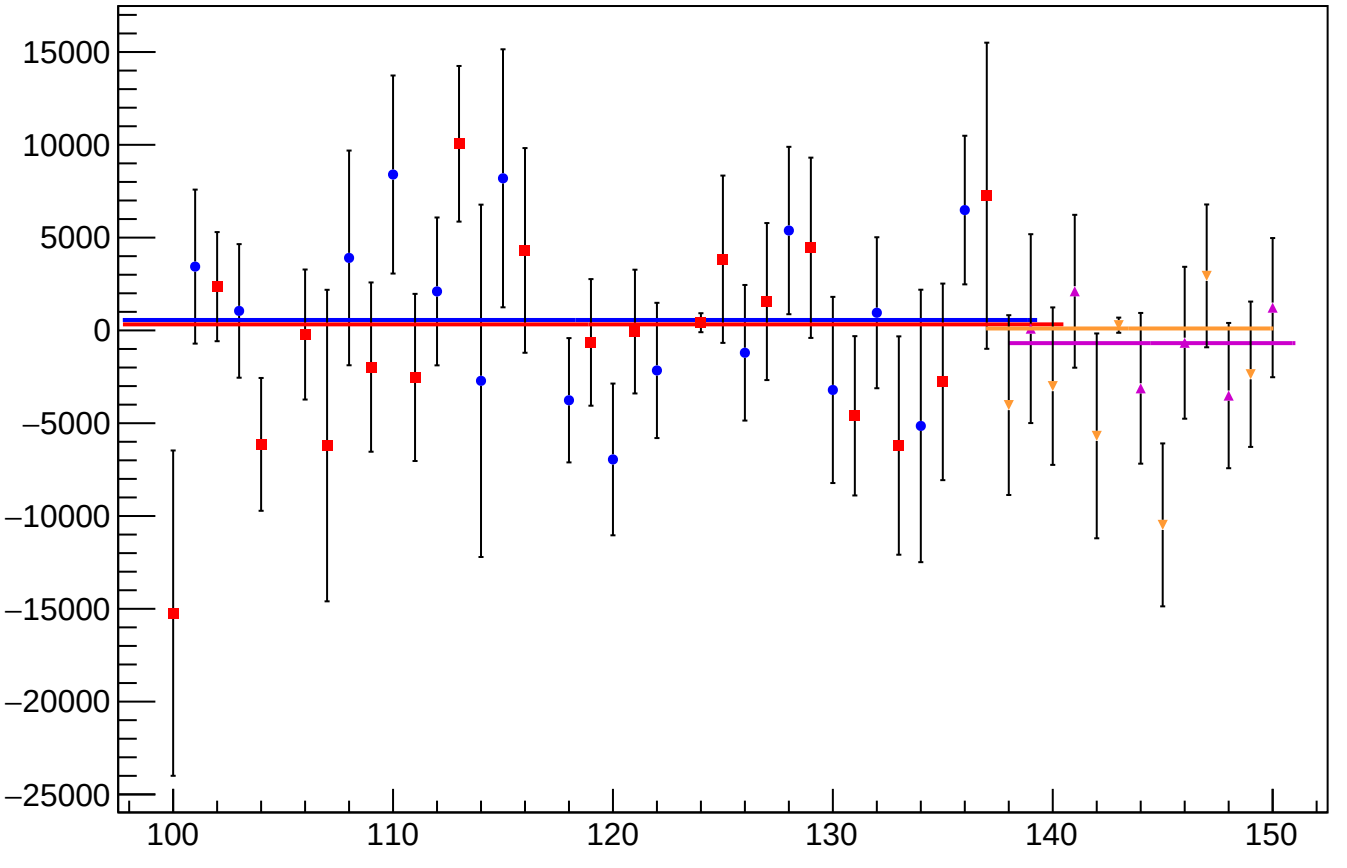
Left: 1946.945+/-0.425 $\chi^2$/NDF: 237985.7/12

Right: 1744.036+/-0.329 $\chi^2$/NDF: 974367.2/34

In: 1811.029+/-0.368 $\chi^2$/NDF:724141.2/21

Out: 1829.451+/-0.368 $\chi^2$/NDF:629530.5/25

All: 1820.226+/-0.260 $\chi^2$/NDF: 1354924.7/47




Right In: 562.339+/-1101.163 $\chi^2$/NDF: 14.8/15

Left Out: 104.182+/-398.699 $\chi^2$/NDF:9.3/6

Right Out: 325.567+/-457.948 $\chi^2$/NDF: 19.2/18

Left In: -685.251+/-1679.865 $\chi^2$/NDF:1.6/5

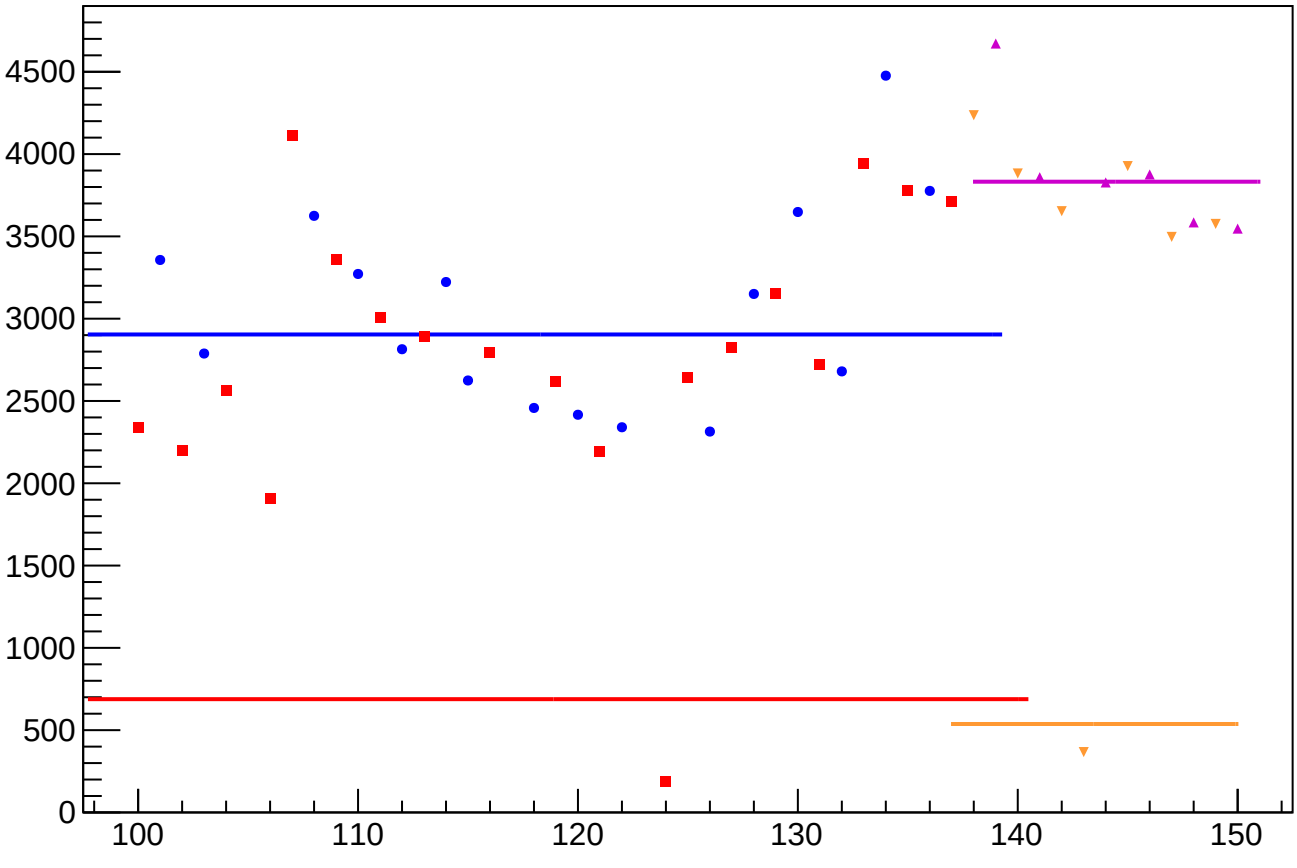
Left: 62.084+/-387.923 $\chi^2$/NDF: 11.1/12

Right: 360.479+/-422.840 $\chi^2$/NDF: 34.1/34

In: 187.380+/-920.939 $\chi^2$/NDF:16.8/21

Out: 199.635+/-300.703 $\chi^2$/NDF:28.7/25

All: 198.455+/-285.851 $\chi^2$/NDF: 45.5/47




Right In: 2904.059+/-0.779 $\chi^2$/NDF: 479774.3/15

Left Out: 537.440+/-0.282 $\chi^2$/NDF:6974883.7/6

Right Out: 688.319+/-0.324 $\chi^2$/NDF: 10148914.1/18

Left In: 3832.209+/-1.188 $\chi^2$/NDF:74289.0/5

Left: 713.138+/-0.274 $\chi^2$/NDF: 14332526.2/12

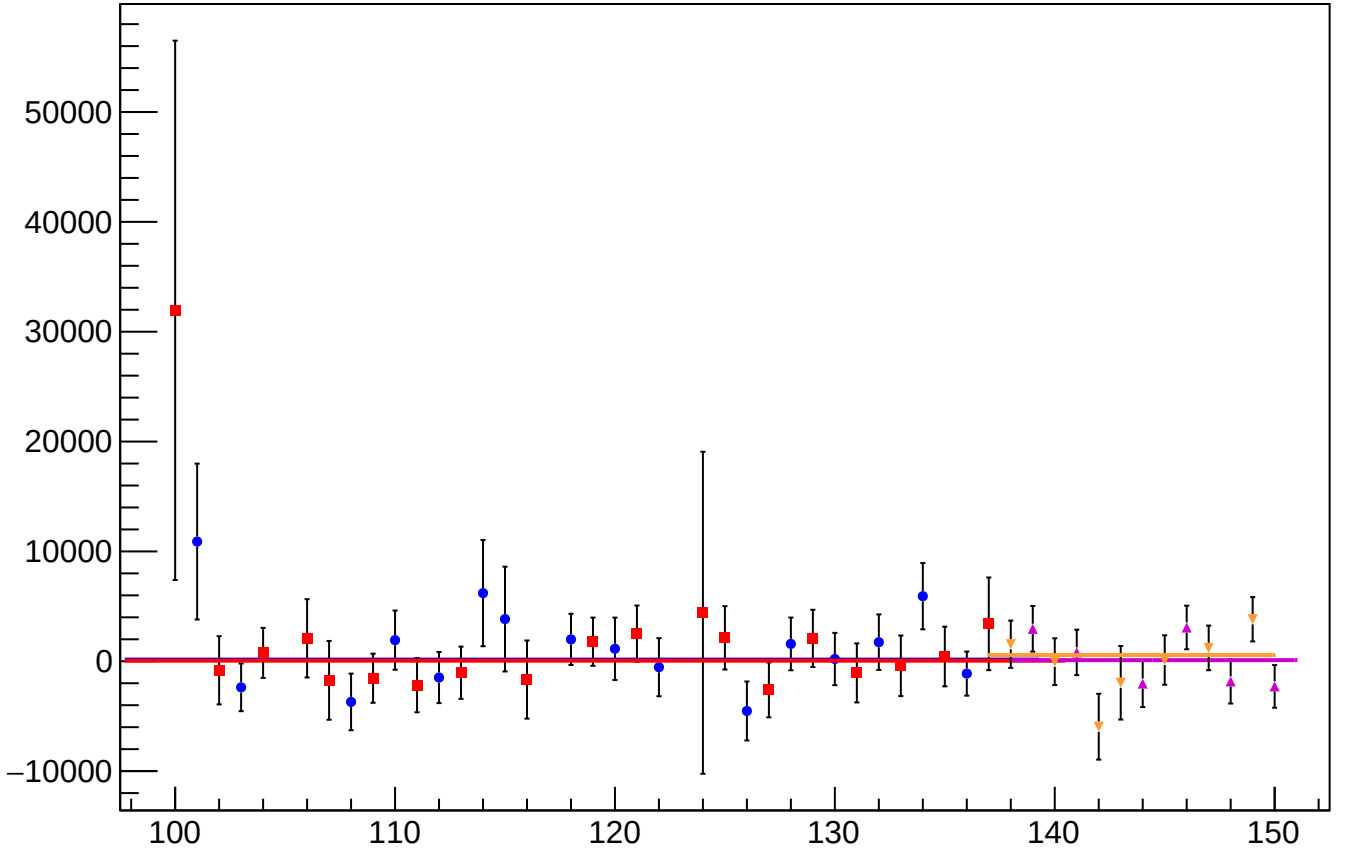
Right: 1015.033+/-0.299 $\chi^2$/NDF: 17532420.1/34

In: 3183.012+/-0.651 $\chi^2$/NDF:981109.9/21

Out: 602.494+/-0.213 $\chi^2$/NDF:17247291.0/25

All: 851.108+/-0.202 $\chi^2$/NDF: 32418525.9/47

# cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: 563.270+/-869.521 $\chi^2$/NDF:8.3/6

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 102.569+/-830.515 $\chi^2$/NDF:7.7/5

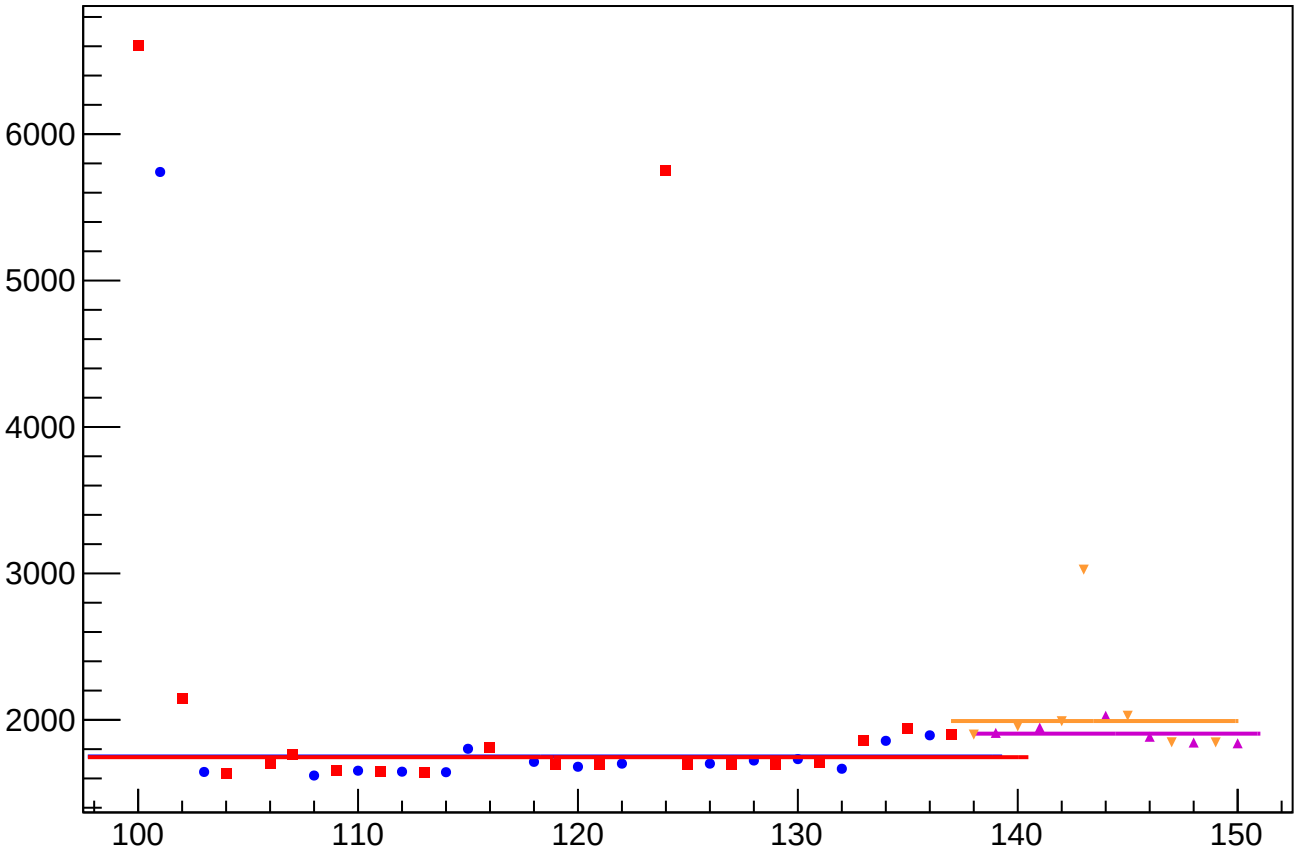
Left: 322.354+/-600.579 $\chi^2$/NDF: 16.2/12

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: 131.556+/-520.062 $\chi^2$/NDF:25.3/21

Out: 238.561+/-523.309 $\chi^2$/NDF:17.5/25

All: 184.725+/-368.882 $\chi^2$/NDF: 42.9/47




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 1991.991+/-0.615 $\chi^2$/NDF:216042.6/6

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1905.850+/-0.587 $\chi^2$/NDF:11678.4/5

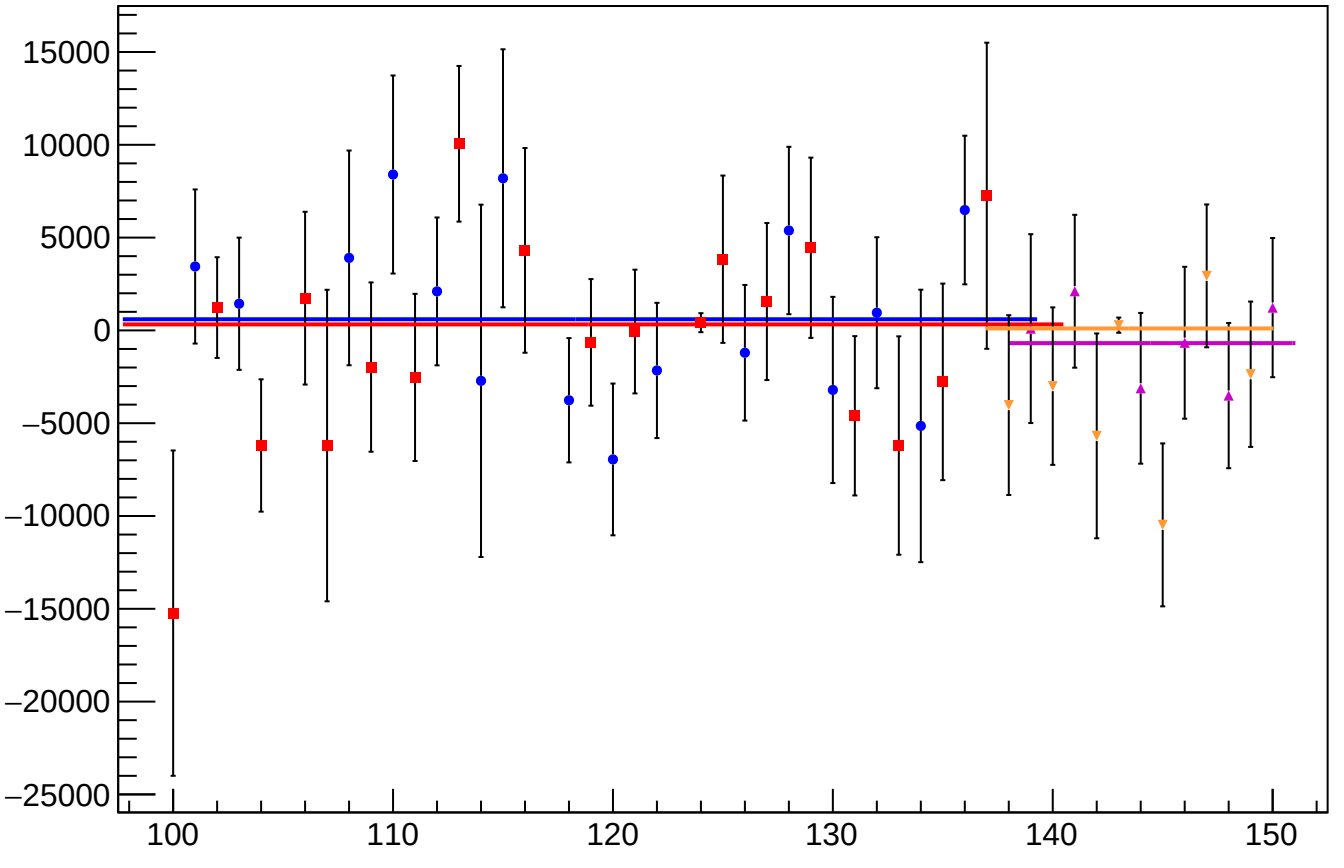
Left: 1946.945+/-0.425 $\chi^2$/NDF: 237985.6/12

Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1811.029+/-0.368 $\chi^2$/NDF:724141.6/21

Out: 1834.155+/-0.369 $\chi^2$/NDF:617066.7/25

All: 1822.548+/-0.261 $\chi^2$/NDF: 1343178.2/47




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 105.147+/-398.733 $\chi^2$/NDF:9.3/6

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -685.326+/-1679.860 $\chi^2$/NDF:1.6/5

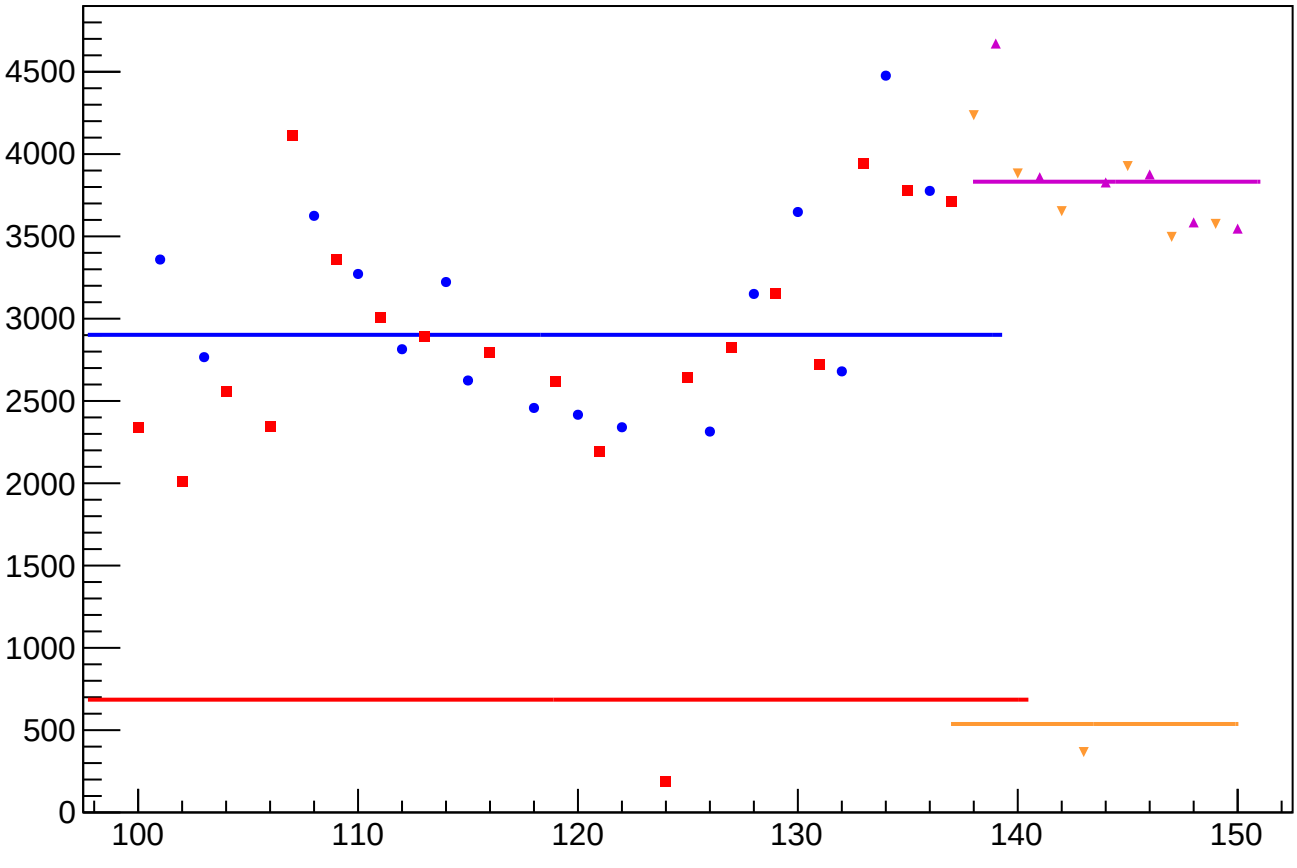
Left: 62.987+/-387.954 $\chi^2$/NDF: 11.1/12

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 214.348+/-920.331 $\chi^2$/NDF:16.9/21

Out: 198.944+/-300.976 $\chi^2$/NDF:28.4/25

All: 200.433+/-286.067 $\chi^2$/NDF: 45.3/47




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 537.507+/-0.282 $\chi^2$/NDF:6974660.1/6

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 3832.196+/-1.188 $\chi^2$/NDF:74288.6/5

Left: 713.230+/-0.274 $\chi^2$/NDF: 14331927.2/12

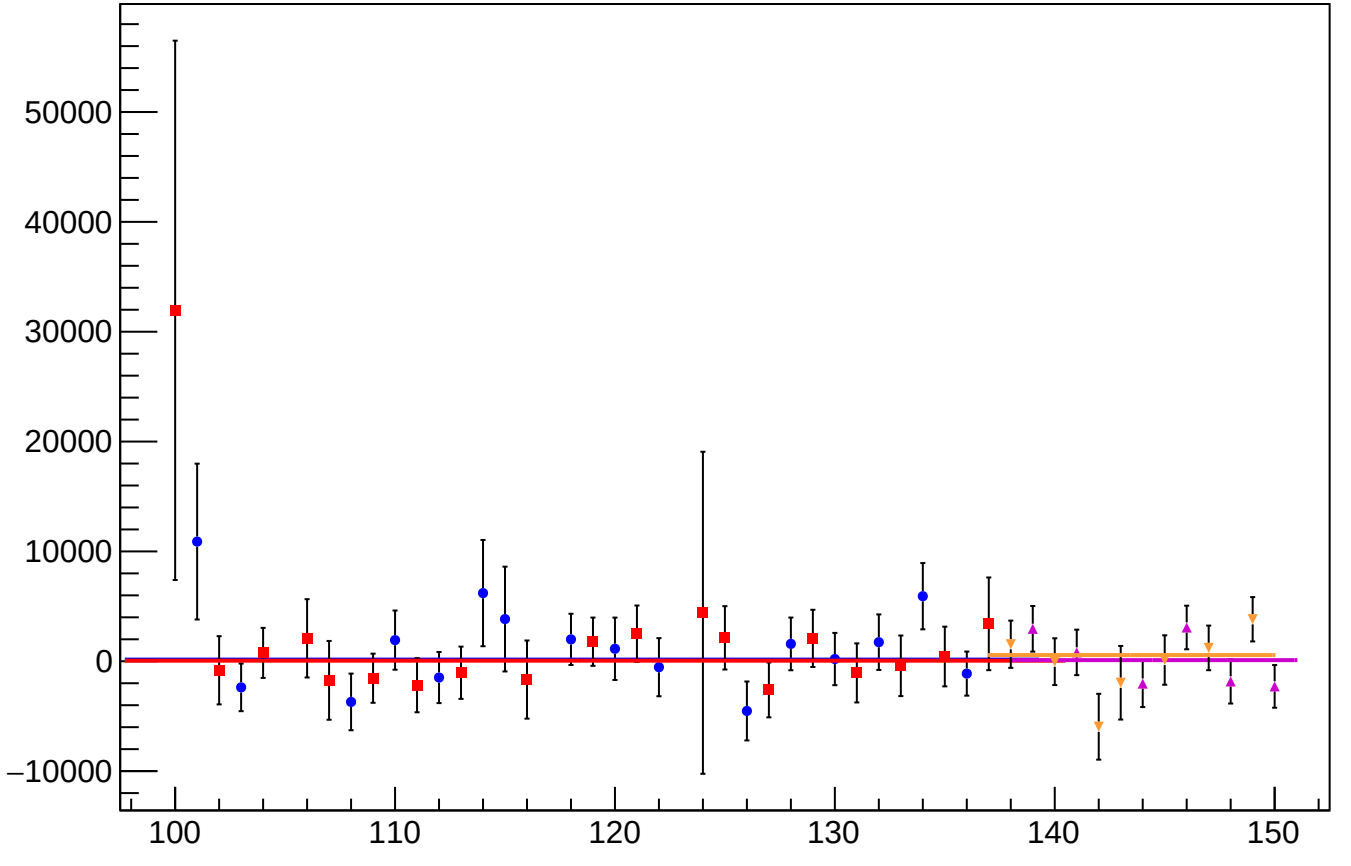
Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3181.104+/-0.651 $\chi^2$/NDF:984528.2/21

Out: 601.073+/-0.213 $\chi^2$/NDF:17198602.9/25

All: 850.346+/-0.202 $\chi^2$/NDF: 32382339.0/47

# eigen_cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: 563.270+/-869.521 $\chi^2$/NDF:8.3/6

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 102.569+/-830.515 $\chi^2$/NDF:7.7/5

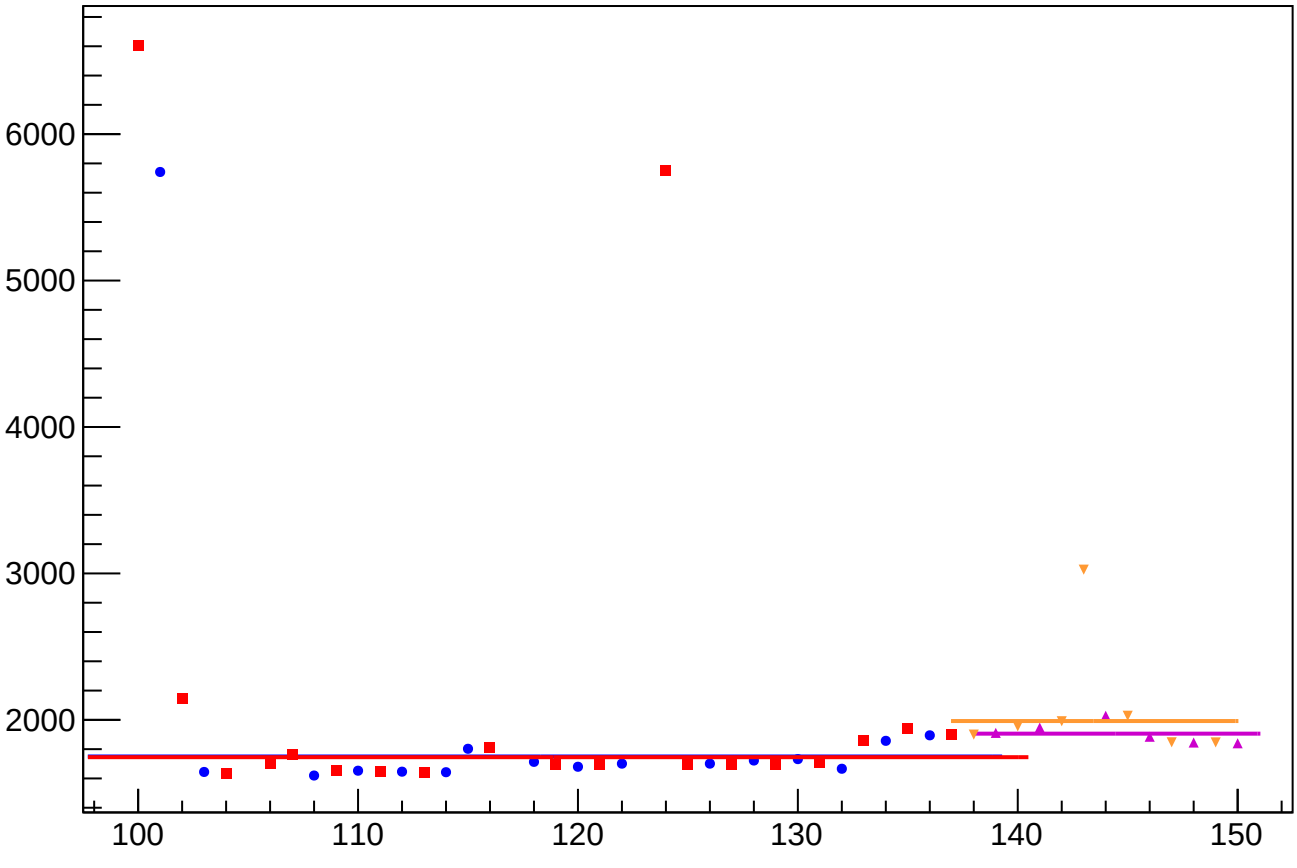
Left: 322.354+/-600.579 $\chi^2$/NDF: 16.2/12

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: 131.556+/-520.062 $\chi^2$/NDF:25.3/21

Out: 238.561+/-523.309 $\chi^2$/NDF:17.5/25

All: 184.725+/-368.882 $\chi^2$/NDF: 42.9/47




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 1991.991+/-0.615 $\chi^2$/NDF:216042.6/6

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1905.850+/-0.587 $\chi^2$/NDF:11678.4/5

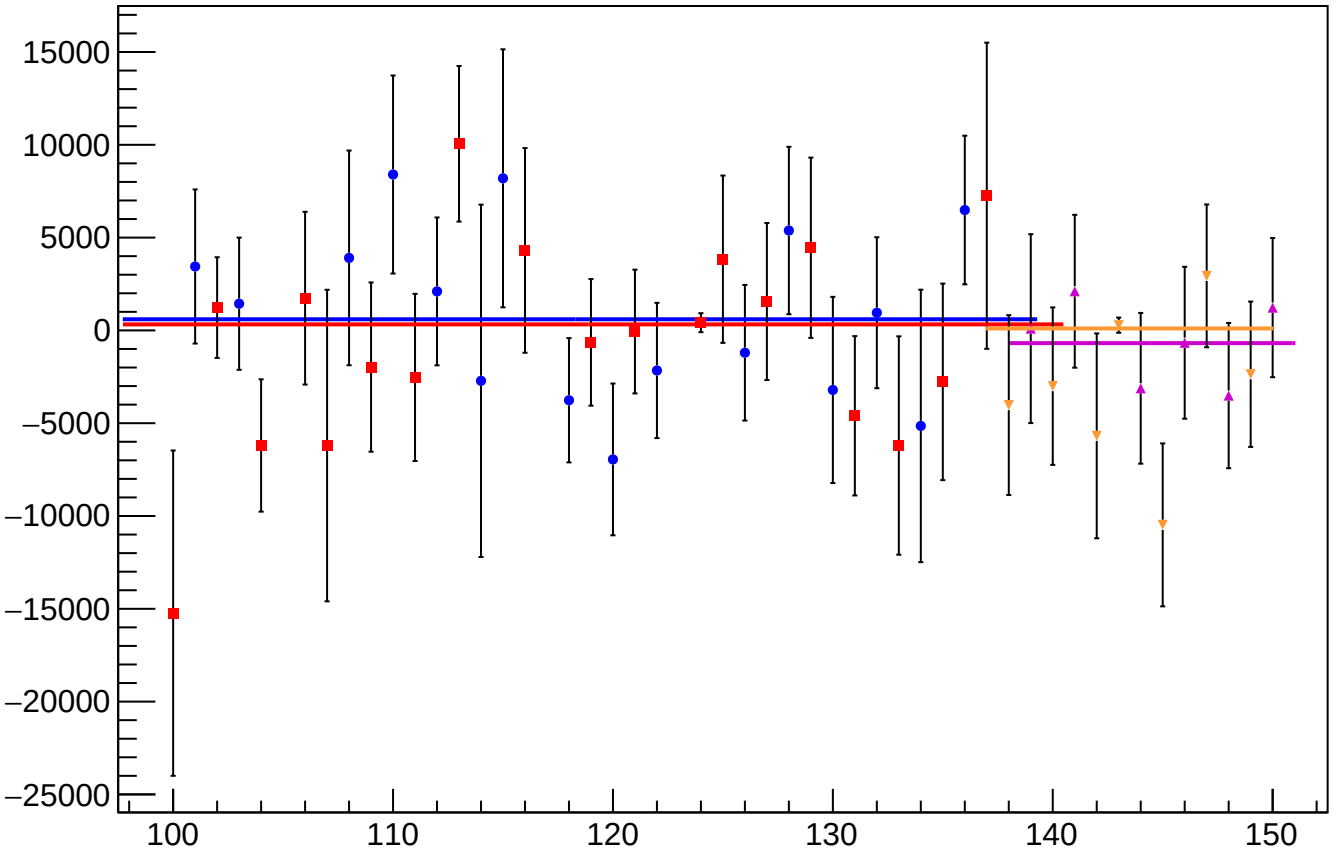
Left: 1946.945+/-0.425 $\chi^2$/NDF: 237985.6/12

Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1811.029+/-0.368 $\chi^2$/NDF:724141.6/21

Out: 1834.155+/-0.369 $\chi^2$/NDF:617066.7/25

All: 1822.548+/-0.261 $\chi^2$/NDF: 1343178.2/47




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 105.147+/-398.733 $\chi^2$/NDF:9.3/6

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -685.326+/-1679.860 $\chi^2$/NDF:1.6/5

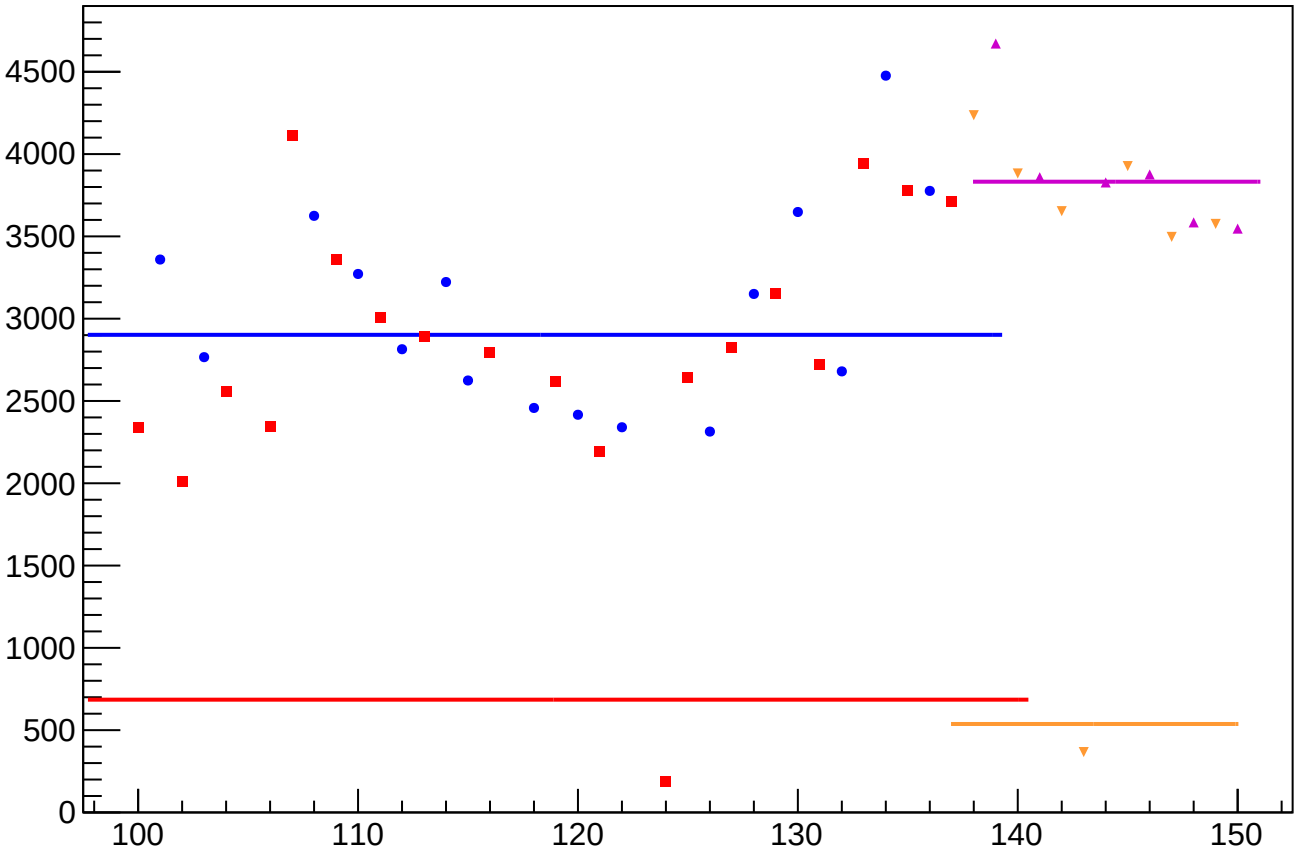
Left: 62.987+/-387.954 $\chi^2$/NDF: 11.1/12

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 214.348+/-920.331 $\chi^2$/NDF:16.9/21

Out: 198.944+/-300.976 $\chi^2$/NDF:28.4/25

All: 200.433+/-286.067 $\chi^2$/NDF: 45.3/47




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 537.507+/-0.282 $\chi^2$/NDF:6974660.1/6

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 3832.196+/-1.188 $\chi^2$/NDF:74288.6/5

Left: 713.230+/-0.274 $\chi^2$/NDF: 14331927.2/12

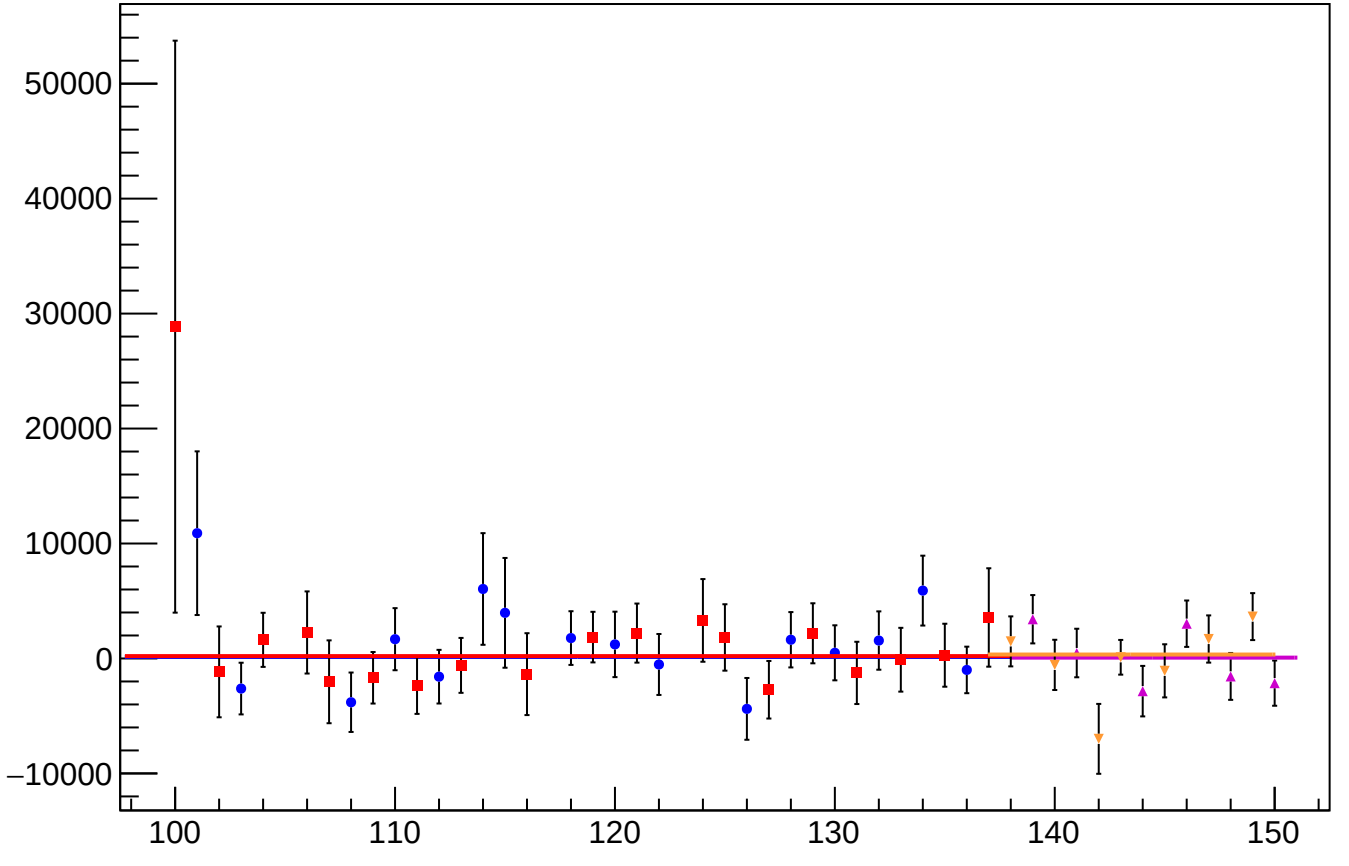
Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3181.104+/-0.651 $\chi^2$/NDF:984528.2/21

Out: 601.073+/-0.213 $\chi^2$/NDF:17198602.9/25

All: 850.346+/-0.202 $\chi^2$/NDF: 32382339.0/47

# dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 133.838+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: 342.456+/-782.798 $\chi^2$/NDF:9.7/6

Right Out: 205.424+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: 73.152+/-844.414 $\chi^2$/NDF:8.4/5

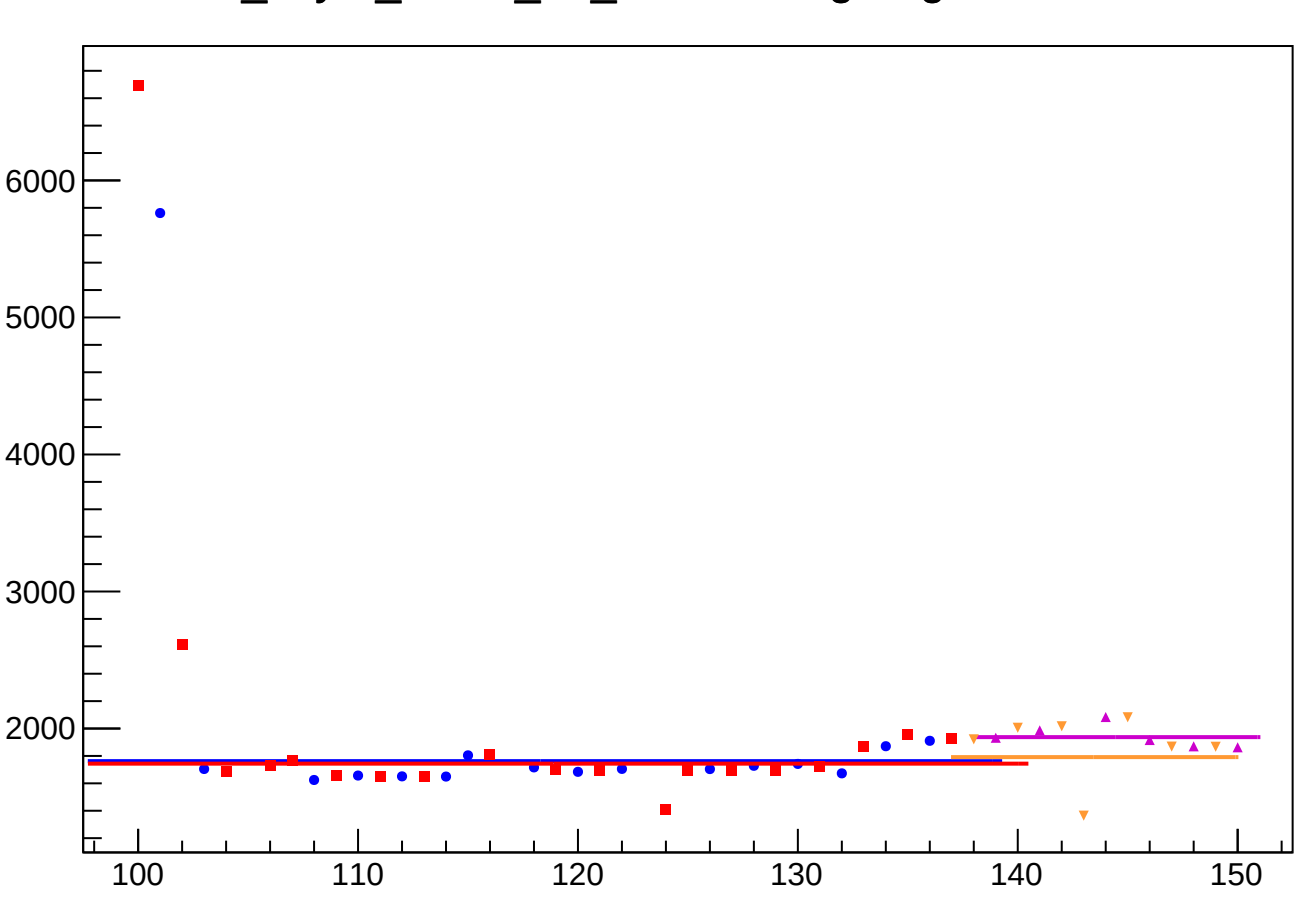
Left: 217.987+/-574.070 $\chi^2$/NDF: 18.1/12

Right: 170.558+/-468.717 $\chi^2$/NDF: 27.0/34

In: 110.323+/-525.633 $\chi^2$/NDF:25.7/21

Out: 261.799+/-502.091 $\chi^2$/NDF:19.4/25

All: 189.529+/-363.069 $\chi^2$/NDF: 45.1/47




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1791.430+/-0.554 $\chi^2$/NDF:234543.4/6

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1937.309+/-0.597 $\chi^2$/NDF:15254.0/5

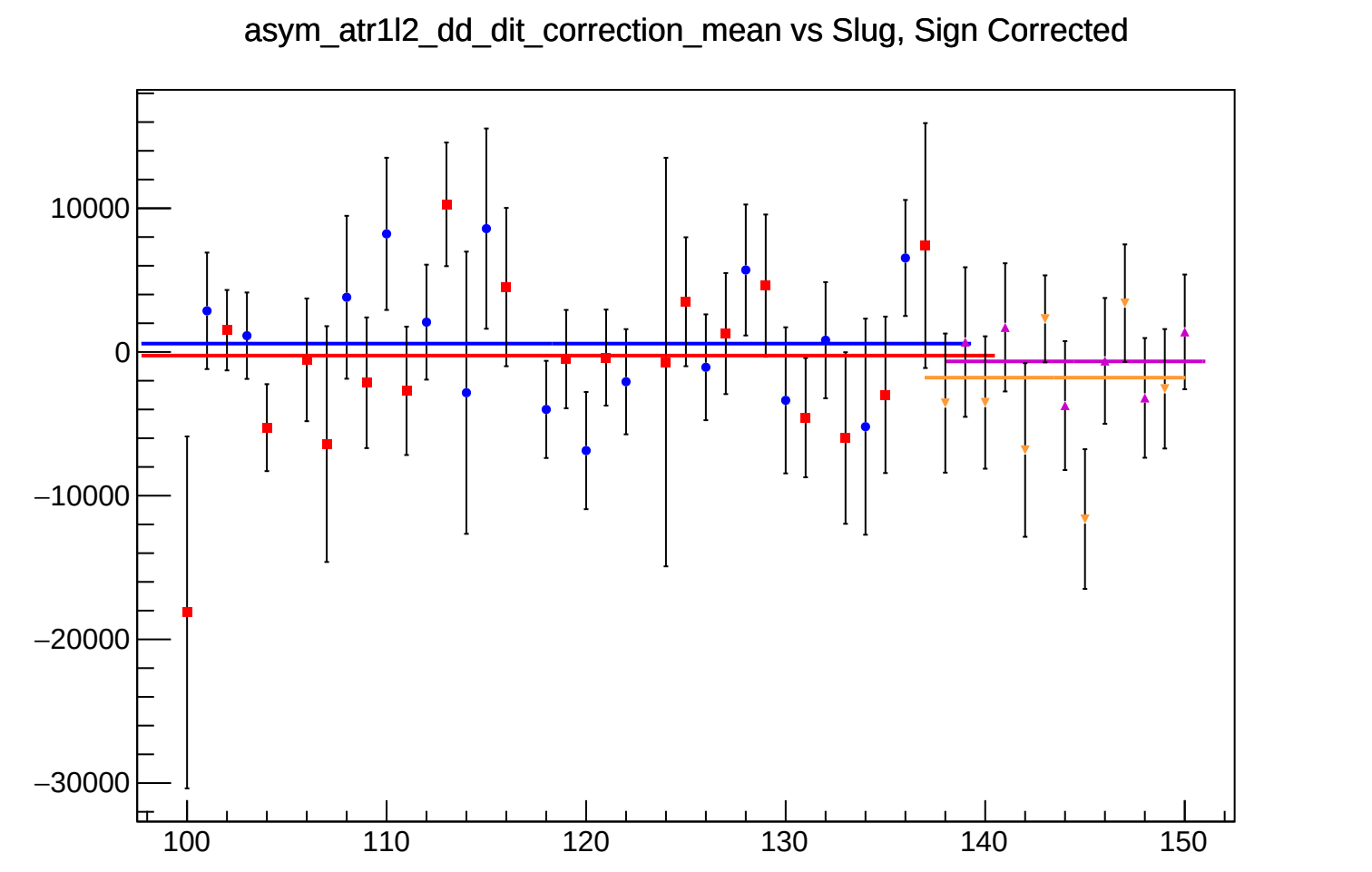
Left: 1858.853+/-0.406 $\chi^2$/NDF: 281899.5/12

Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1829.961+/-0.372 $\chi^2$/NDF:735720.4/21

Out: 1763.283+/-0.354 $\chi^2$/NDF:466688.1/25

All: 1795.039+/-0.257 $\chi^2$/NDF: 1219264.3/47




Right In: 582.223+/-1081.481 $\chi^2$/NDF: 14.9/15

Left Out: -1785.576+/-1608.795 $\chi^2$/NDF:8.5/6

Right Out: -250.224+/-1021.012 $\chi^2$/NDF: 17.9/18

Left In: -653.372+/-1797.549 $\chi^2$/NDF:1.5/5

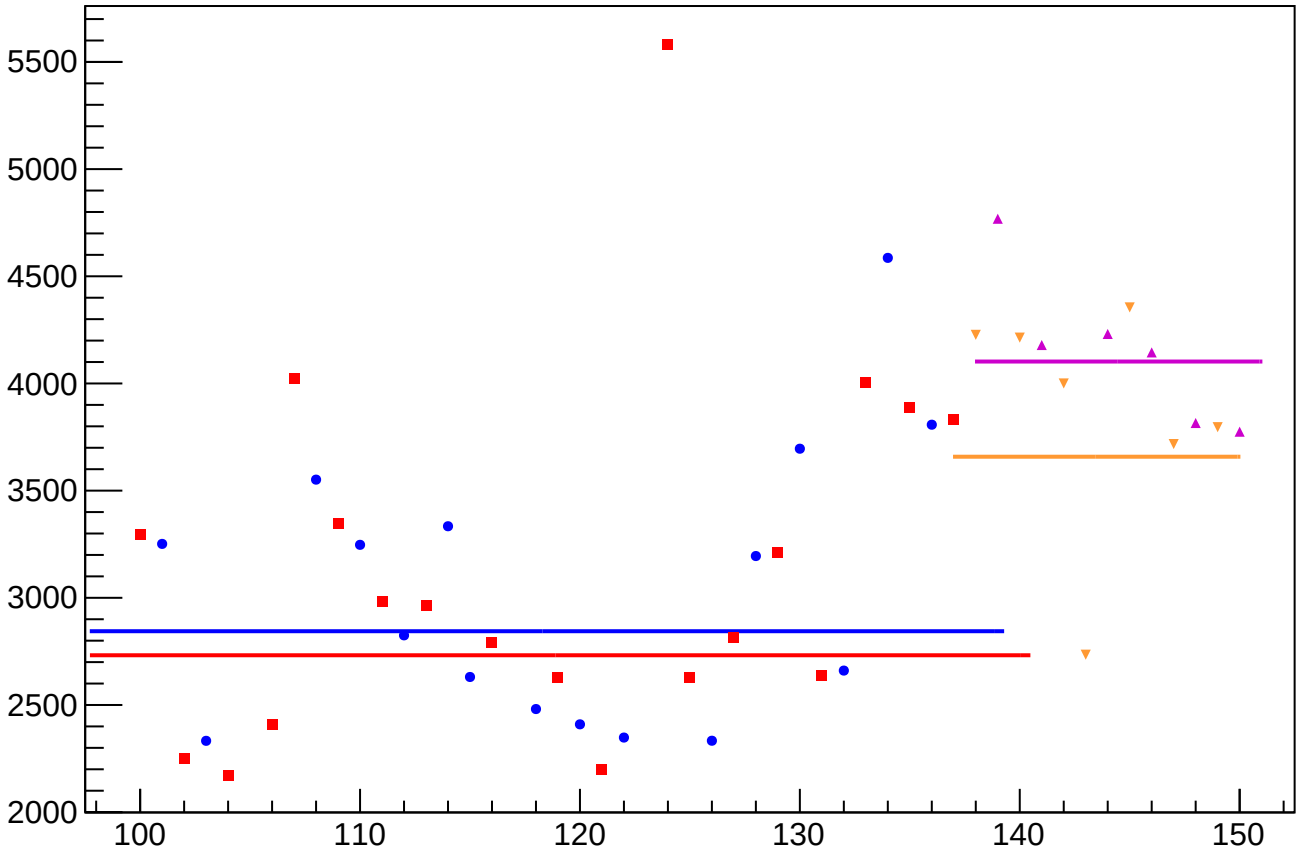
Left: -1282.020+/-1198.788 $\chi^2$/NDF: 10.2/12

Right: 142.078+/-742.422 $\chi^2$/NDF: 33.1/34

In: 253.838+/-926.690 $\chi^2$/NDF:16.7/21

Out: -691.064+/-862.060 $\chi^2$/NDF:27.1/25

All: -252.710+/-631.181 $\chi^2$/NDF: 44.3/47




Right In: 2844.153+/-0.765 $\chi^2$/NDF: 542032.5/15

Left Out: 3658.248+/-1.138 $\chi^2$/NDF:293033.5/6

Right Out: 2731.978+/-0.722 $\chi^2$/NDF: 611275.1/18

Left In: 4102.315+/-1.271 $\chi^2$/NDF:58143.3/5

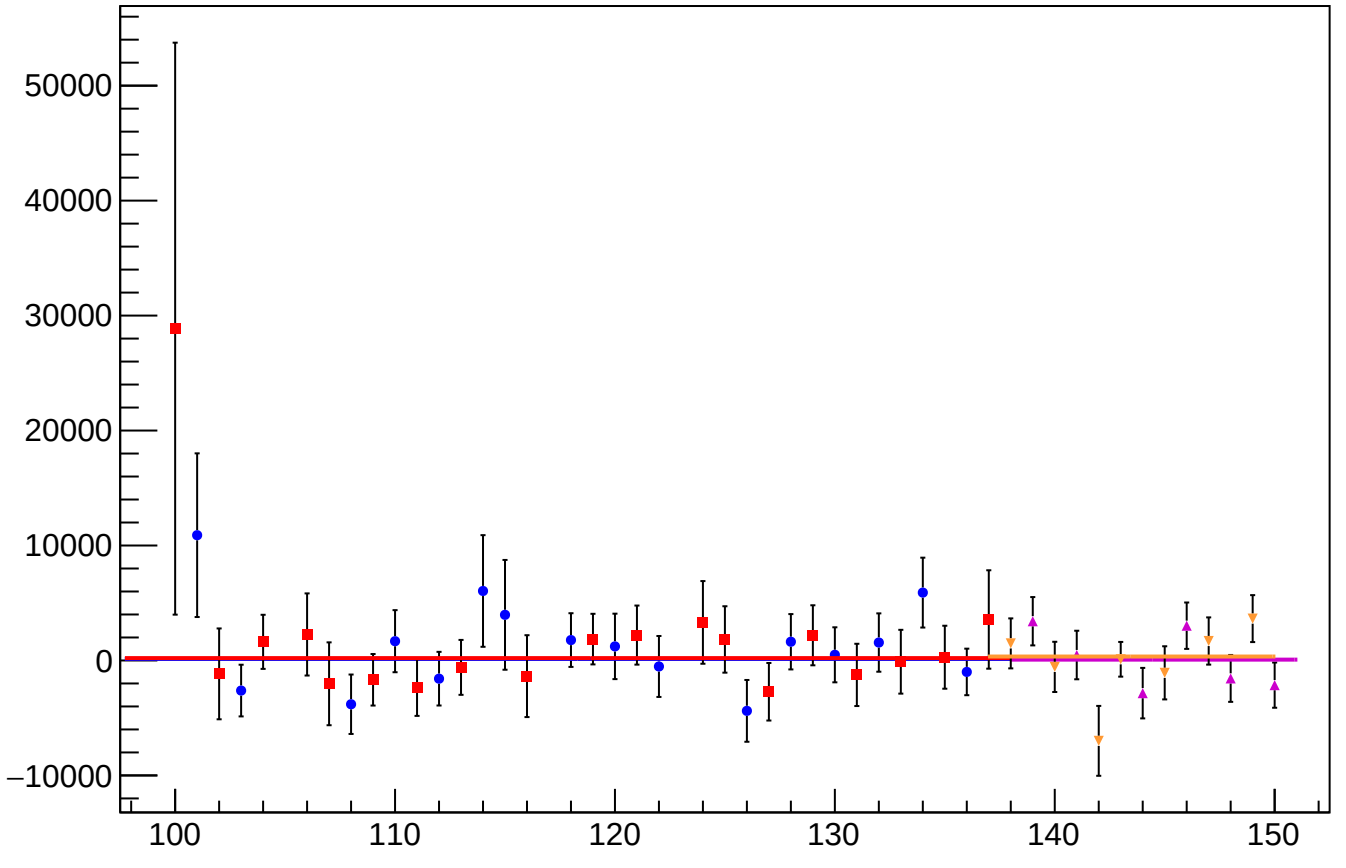
Left: 3855.750+/-0.848 $\chi^2$/NDF: 418948.4/12

Right: 2784.841+/-0.525 $\chi^2$/NDF: 1164684.5/34

In: 3178.536+/-0.655 $\chi^2$/NDF:1319581.0/21

Out: 2997.934+/-0.610 $\chi^2$/NDF:1376933.9/25

All: 3081.718+/-0.446 $\chi^2$/NDF: 2737237.7/47




Right In: 133.837+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: 342.448+/-782.799 $\chi^2$/NDF:9.7/6

Right Out: 205.422+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: 73.148+/-844.414 $\chi^2$/NDF:8.4/5

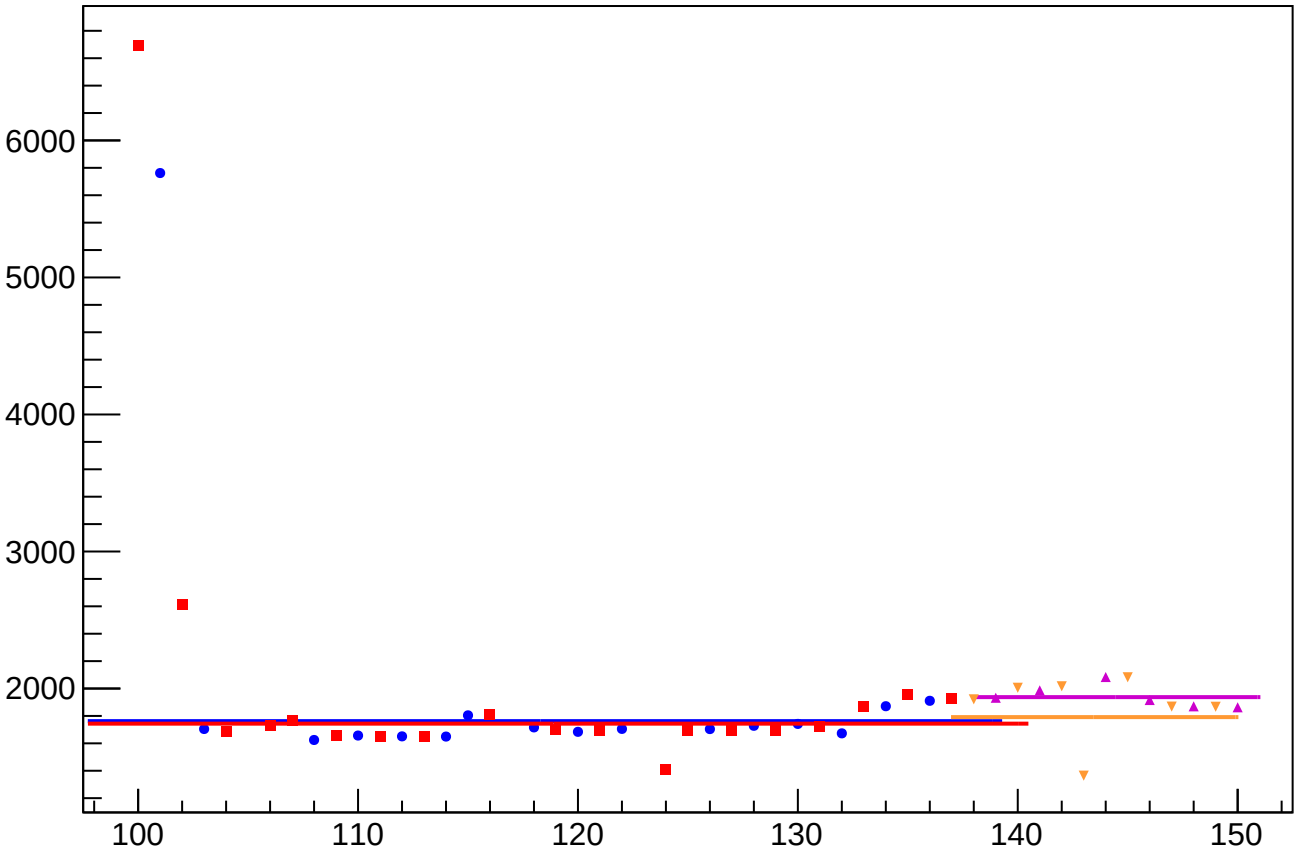
Left: 217.981+/-574.070 $\chi^2$/NDF: 18.1/12

Right: 170.557+/-468.717 $\chi^2$/NDF: 27.0/34

In: 110.321+/-525.633 $\chi^2$/NDF:25.7/21

Out: 261.795+/-502.091 $\chi^2$/NDF:19.4/25

All: 189.526+/-363.069 $\chi^2$/NDF: 45.1/47




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1791.430+/-0.554 $\chi^2$/NDF:234544.3/6

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1937.309+/-0.597 $\chi^2$/NDF:15254.2/5

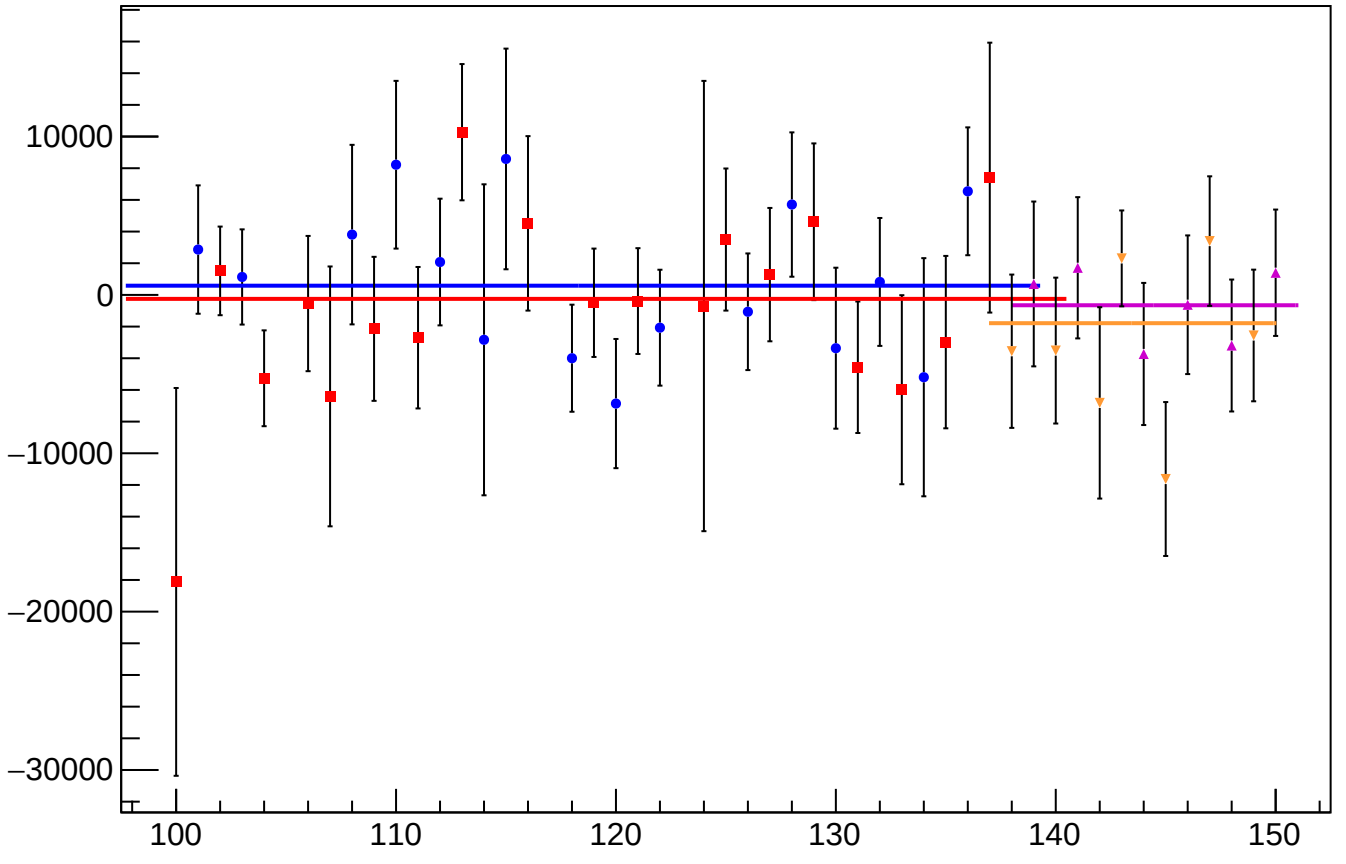
Left: 1858.854+/-0.406 $\chi^2$/NDF: 281900.7/12

Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1829.961+/-0.372 $\chi^2$/NDF:735721.0/21

Out: 1763.283+/-0.354 $\chi^2$/NDF:466689.1/25

All: 1795.039+/-0.257 $\chi^2$/NDF: 1219265.9/47




Right In: 582.219+/-1081.478 $\chi^2$/NDF: 14.9/15

Left Out: -1785.575+/-1608.797 $\chi^2$/NDF:8.5/6

Right Out: -250.225+/-1021.010 $\chi^2$/NDF: 17.9/18

Left In: -653.373+/-1797.551 $\chi^2$/NDF:1.5/5

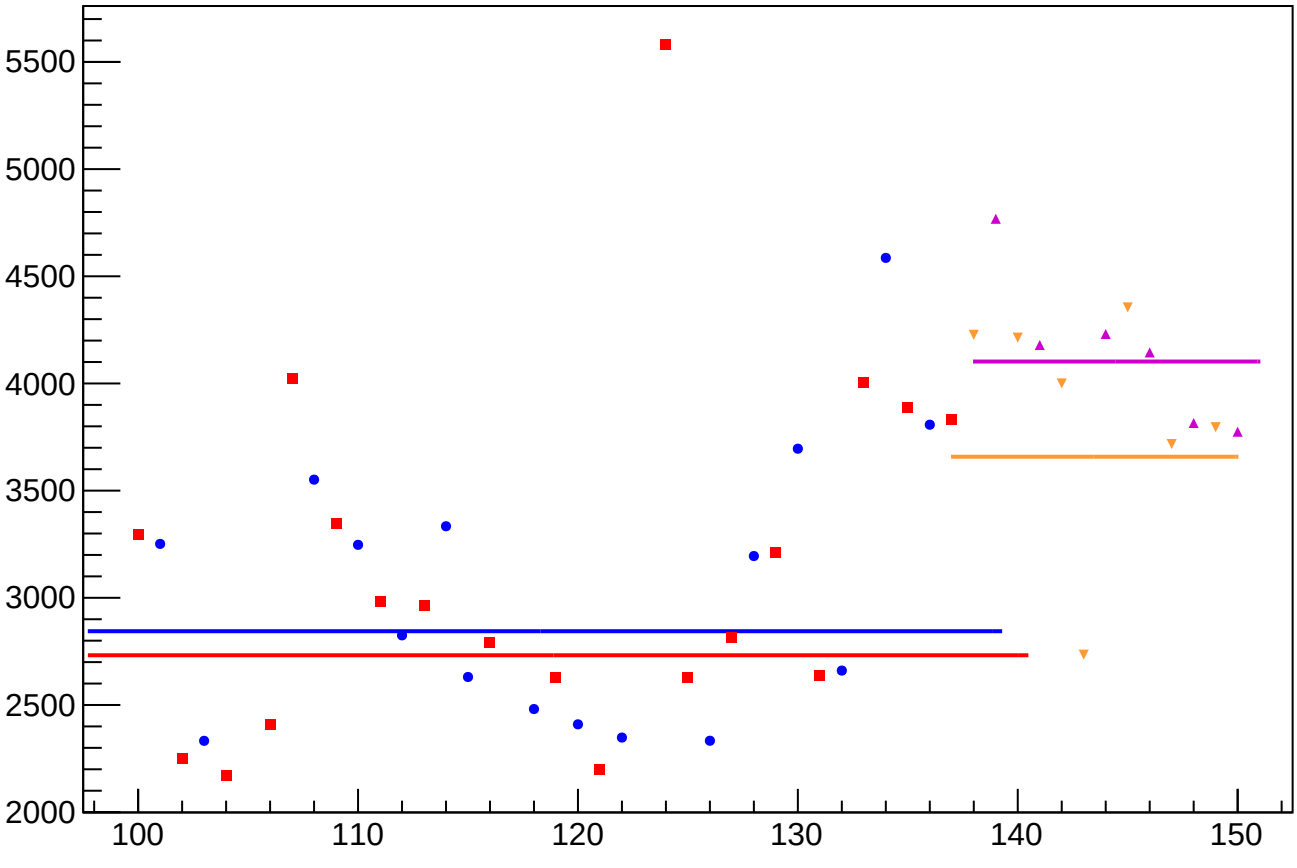
Left: -1282.020+/-1198.789 $\chi^2$/NDF: 10.2/12

Right: 142.075+/-742.420 $\chi^2$/NDF: 33.1/34

In: 253.836+/-926.689 $\chi^2$/NDF:16.7/21

Out: -691.062+/-862.059 $\chi^2$/NDF:27.1/25

All: -252.709+/-631.180 $\chi^2$/NDF: 44.3/47




Right In: 2844.145+/-0.765 $\chi^2$/NDF: 542036.2/15

Left Out: 3658.252+/-1.138 $\chi^2$/NDF:293037.2/6

Right Out: 2731.972+/-0.722 $\chi^2$/NDF: 611272.5/18

Left In: 4102.320+/-1.271 $\chi^2$/NDF:58145.3/5

Left: 3855.755+/-0.848 $\chi^2$/NDF: 418954.3/12

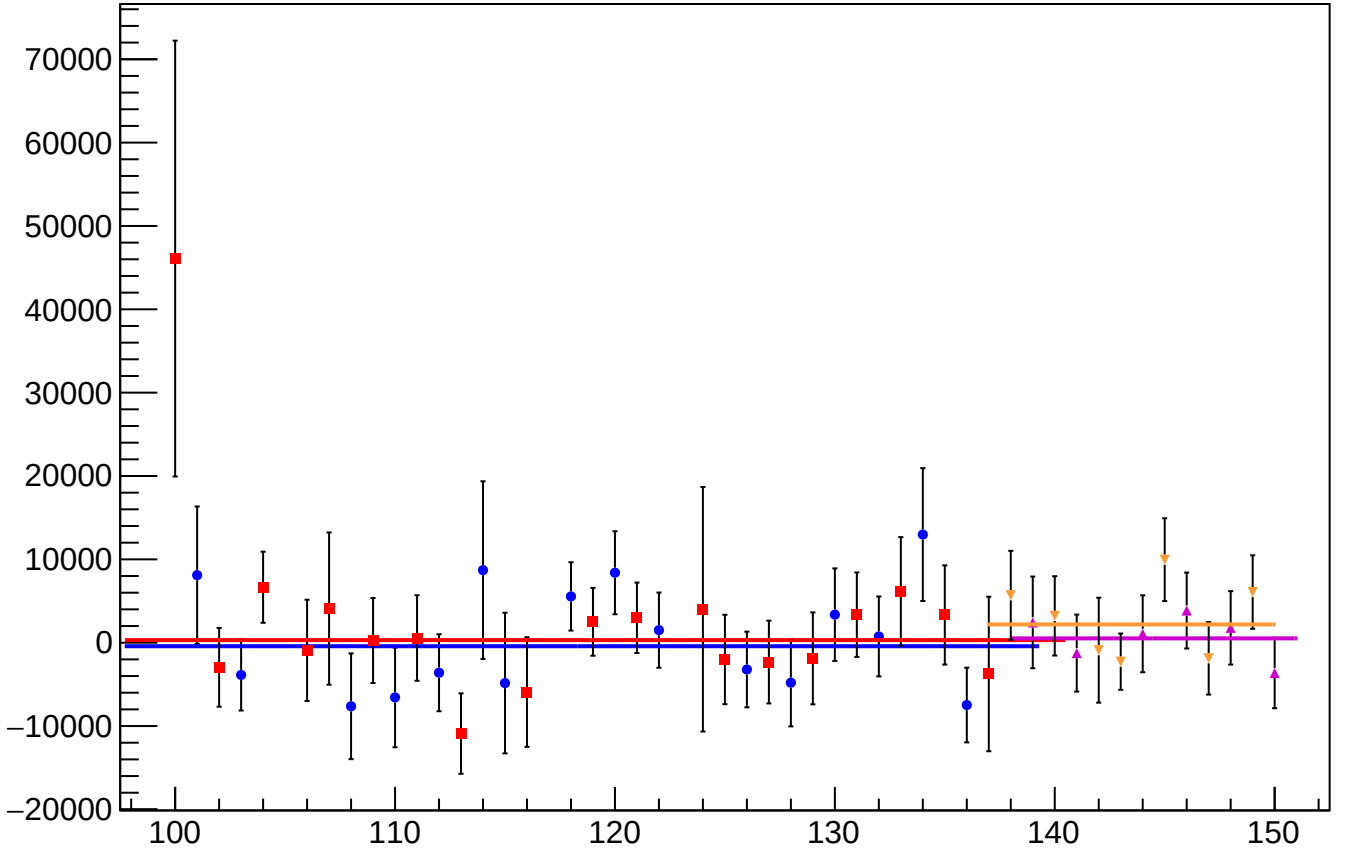
Right: 2784.835+/-0.525 $\chi^2$/NDF: 1164685.2/34

In: 3178.530+/-0.655 $\chi^2$/NDF:1319600.7/21

Out: 2997.930+/-0.610 $\chi^2$/NDF:1376944.3/25

All: 3081.713+/-0.446 $\chi^2$/NDF: 2737267.0/47

# asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: -423.131+/-1327.258 $\chi^2$/NDF: 17.9/15

Left Out: 2188.999+/-1722.278 $\chi^2$/NDF:6.6/6

Right Out: 307.823+/-1275.718 $\chi^2$/NDF: 15.3/18

Left In: 519.788+/-1880.967 $\chi^2$/NDF:1.9/5

Left: 1427.764+/-1270.237 $\chi^2$/NDF: 8.9/12

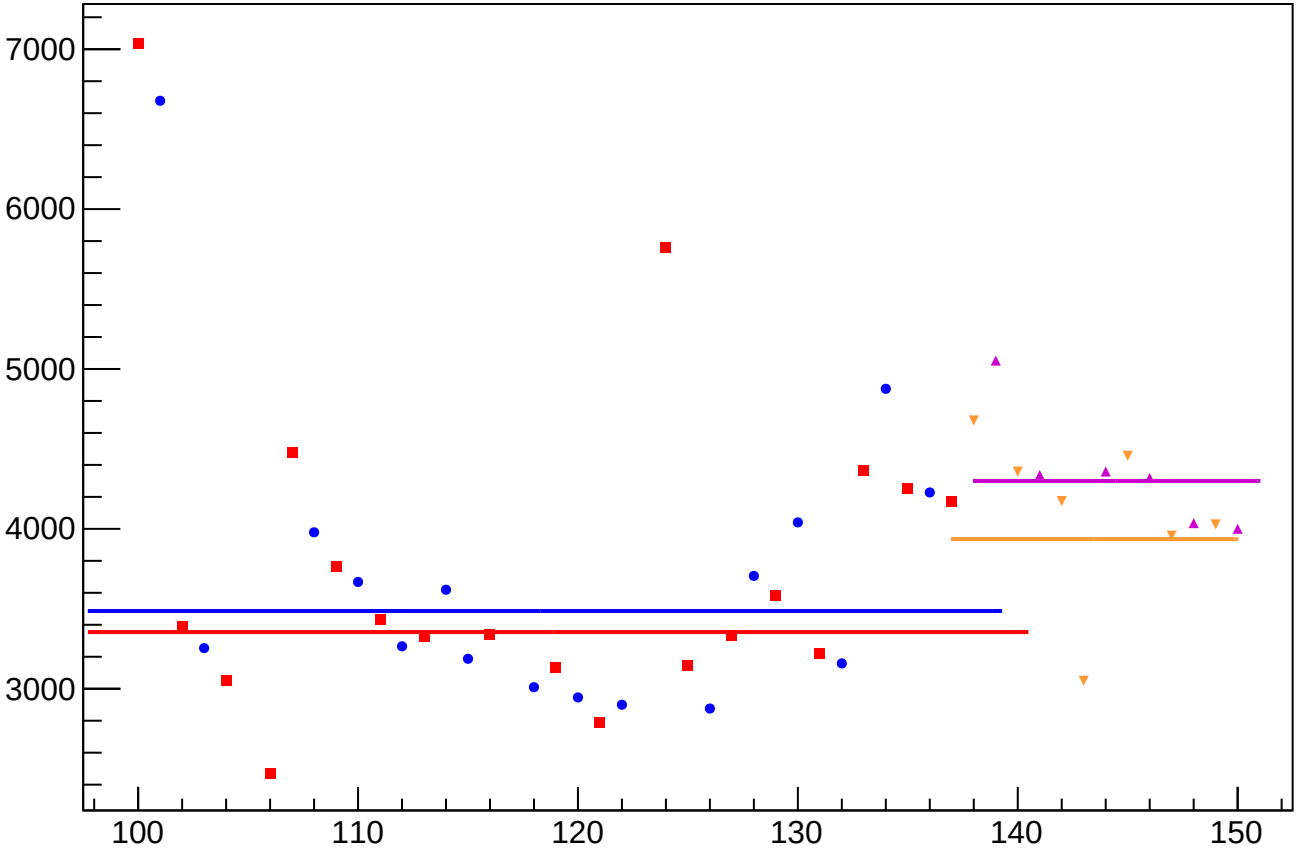
Right: -43.186+/-919.750 $\chi^2$/NDF: 33.3/34

In: -109.703+/-1084.458 $\chi^2$/NDF:19.9/21

Out: 974.286+/-1025.125 $\chi^2$/NDF:22.6/25

All: 462.756+/-744.966 $\chi^2$/NDF: 43.1/47

# asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 3486.167+/-0.939 $\chi^2$/NDF: 595790.9/15

Left Out: 3935.850+/-1.218 $\chi^2$/NDF:218088.4/6

Right Out: 3354.426+/-0.889 $\chi^2$/NDF: 376426.3/18

Left In: 4299.537+/-1.330 $\chi^2$/NDF:55134.9/5

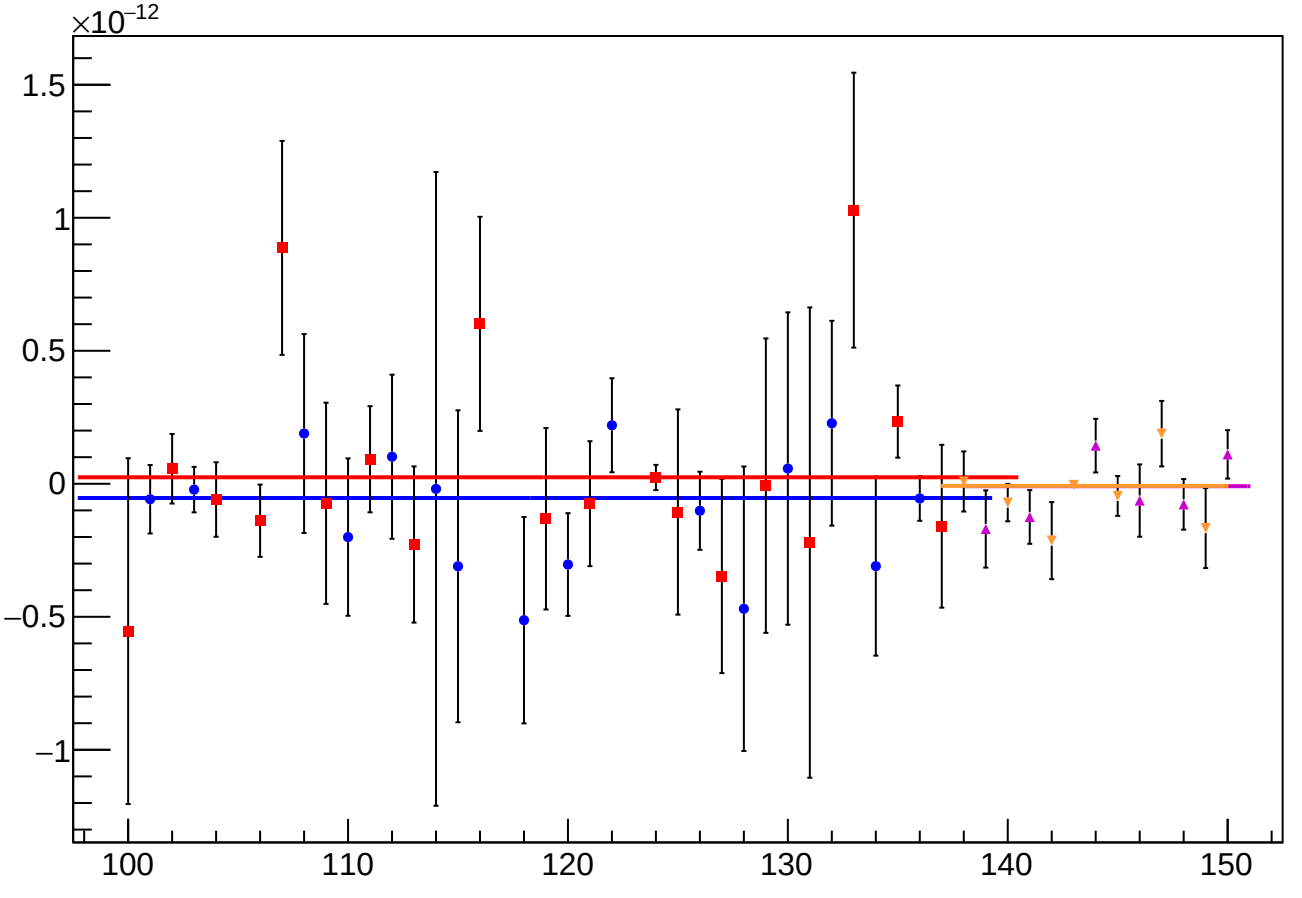
Left: 4101.708+/-0.898 $\chi^2$/NDF: 313894.4/12

Right: 3416.767+/-0.646 $\chi^2$/NDF: 982597.4/34

In: 3756.532+/-0.767 $\chi^2$/NDF:900591.8/21

Out: 3556.694+/-0.718 $\chi^2$/NDF:743154.5/25

All: 3650.090+/-0.524 $\chi^2$/NDF: 1679920.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.2/5

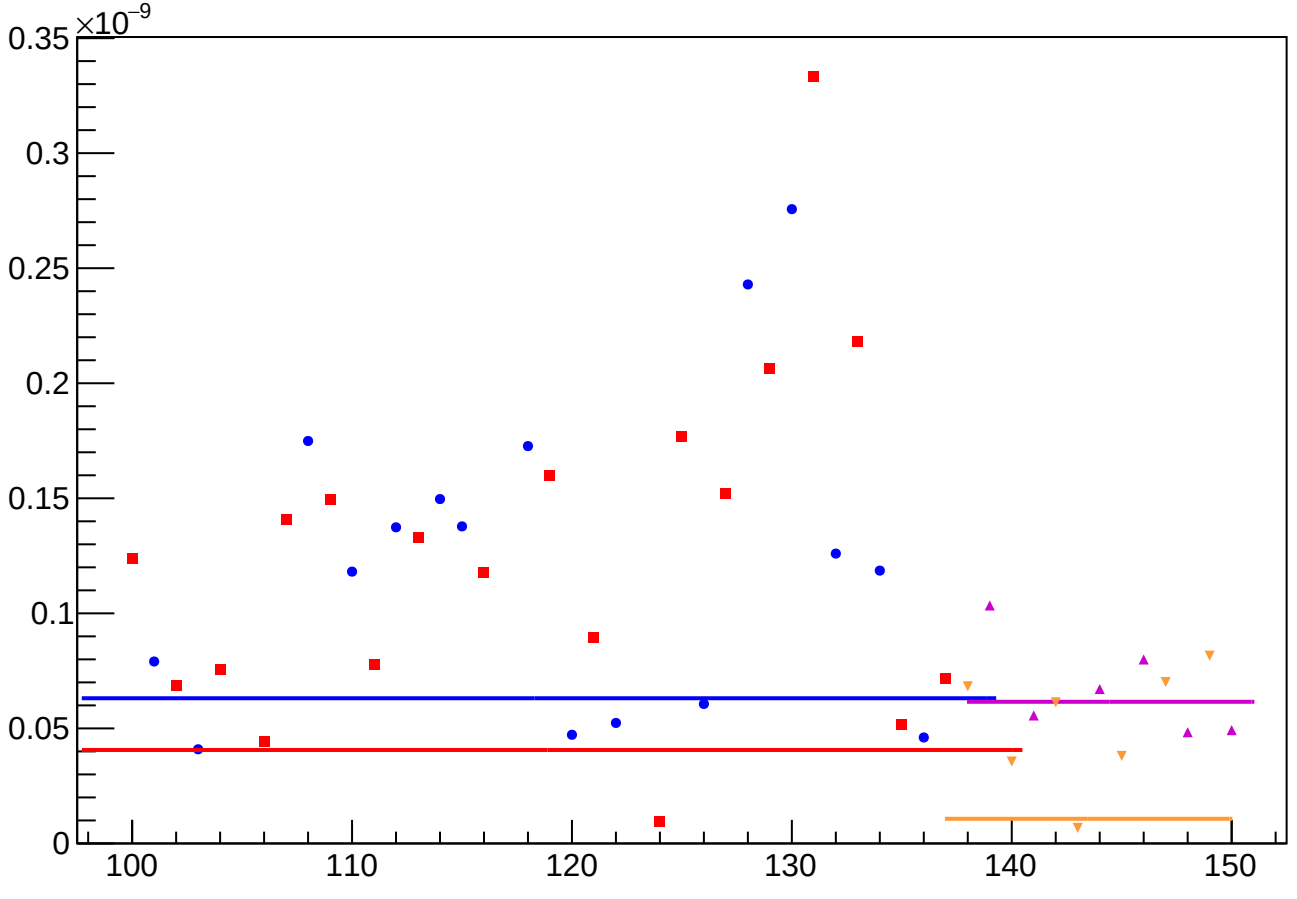
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.1/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:25.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 42.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1432018.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2379115.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3172346.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:291335.2/5

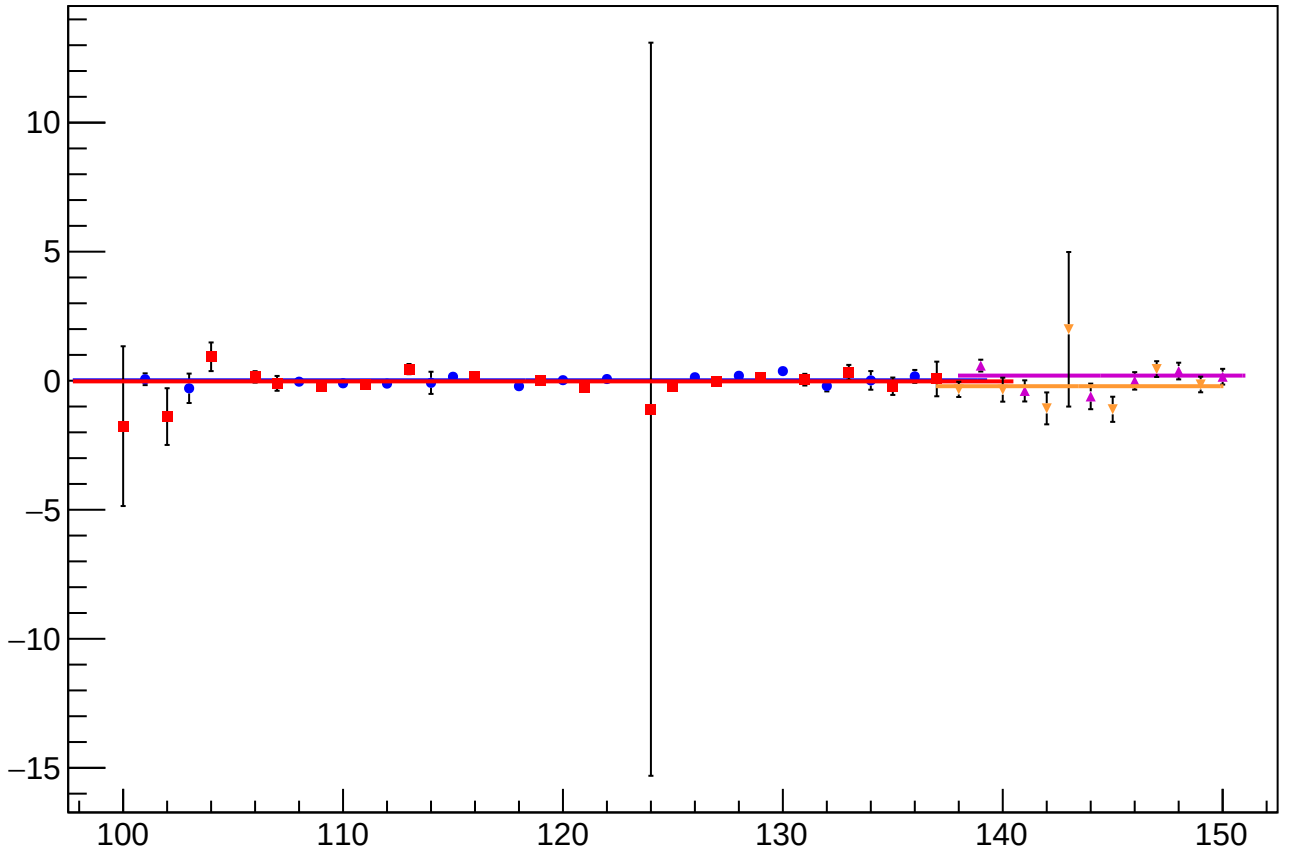
Left: 0.000+/-0.000 $\chi^2$/NDF: 5205424.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 4914964.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:1724575.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6803992.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 12789003.5/47




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: -0.213+/-0.150 $\chi^2$/NDF:10.8/6

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.198+/-0.131 $\chi^2$/NDF:8.3/5

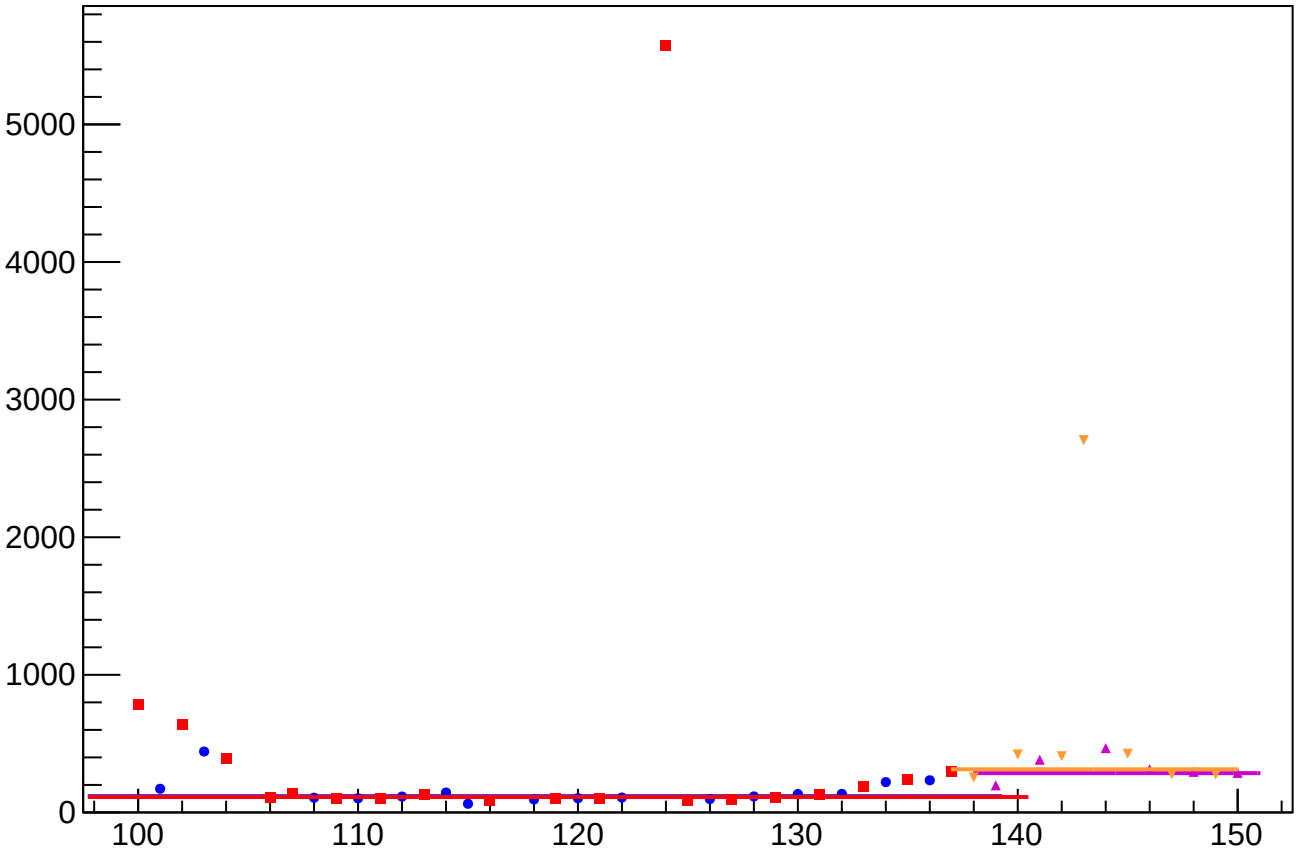
Left: 0.020+/-0.099 $\chi^2$/NDF: 23.4/12

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.037+/-0.045 $\chi^2$/NDF:21.8/21

Out: -0.042+/-0.045 $\chi^2$/NDF:34.4/25

All: -0.003+/-0.032 $\chi^2$/NDF: 57.7/47




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 313.826+/-0.106 $\chi^2$/NDF:1678462.7/6

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 285.666+/-0.093 $\chi^2$/NDF:698049.2/5

Left: 297.895+/-0.070 $\chi^2$/NDF: 2416596.3/12

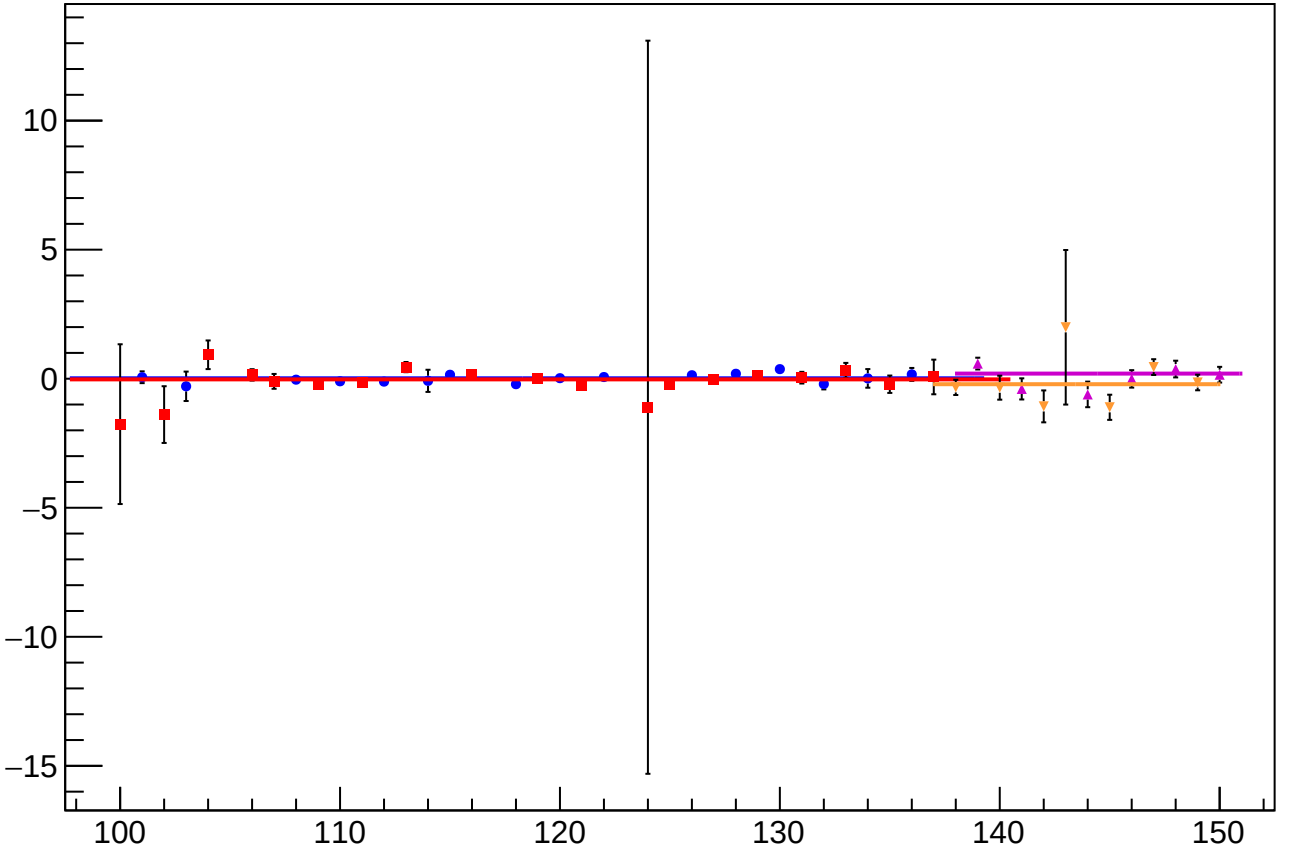
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 137.438+/-0.032 $\chi^2$/NDF:5319390.8/21

Out: 130.130+/-0.032 $\chi^2$/NDF:7175268.7/25

All: 133.761+/-0.022 $\chi^2$/NDF: 12521211.2/47

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: -0.213+/-0.150 $\chi^2$/NDF:10.8/6

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.198+/-0.131 $\chi^2$/NDF:8.3/5

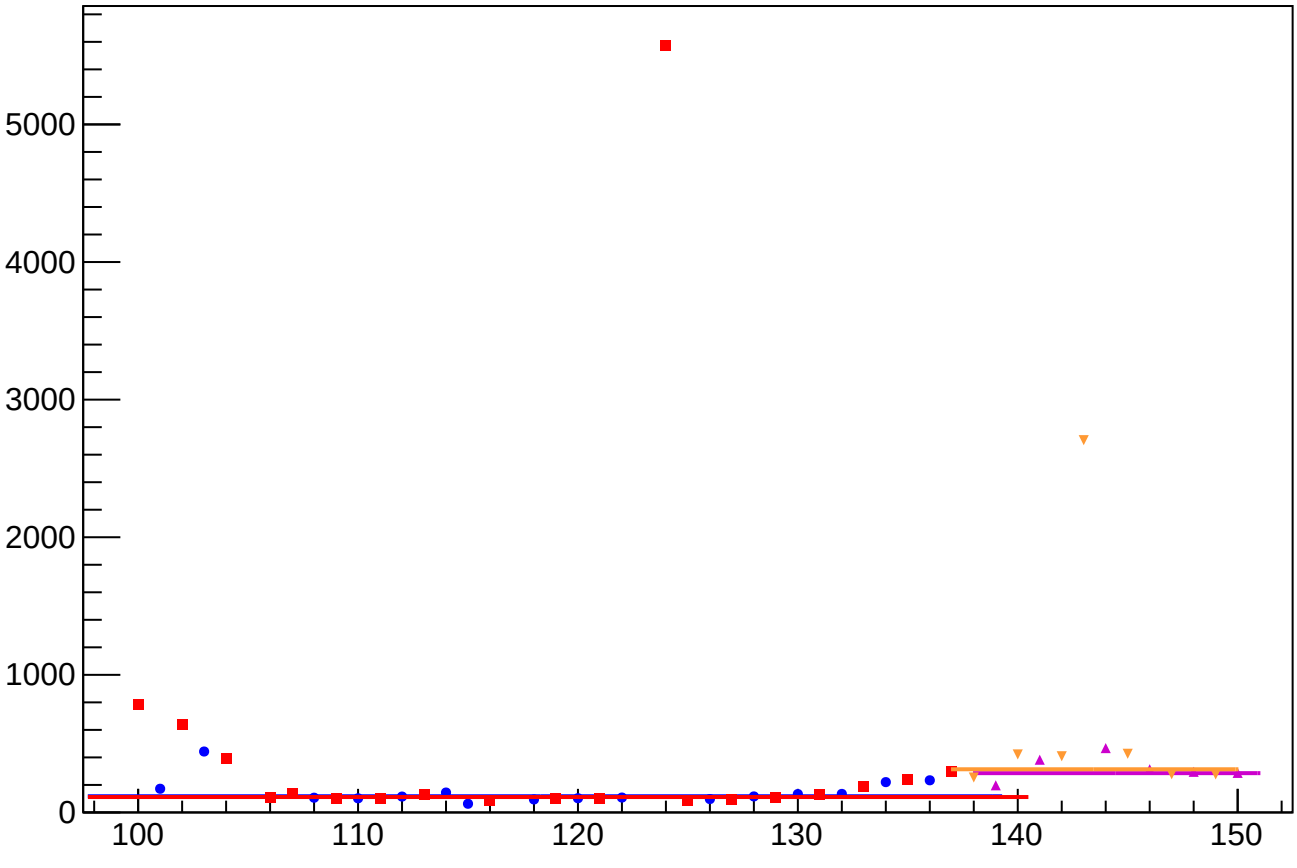
Left: 0.020+/-0.099 $\chi^2$/NDF: 23.4/12

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.037+/-0.045 $\chi^2$/NDF:21.8/21

Out: -0.042+/-0.045 $\chi^2$/NDF:34.4/25

All: -0.003+/-0.032 $\chi^2$/NDF: 57.7/47




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 313.826+/-0.106 $\chi^2$/NDF:1678462.7/6

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 285.666+/-0.093 $\chi^2$/NDF:698049.2/5

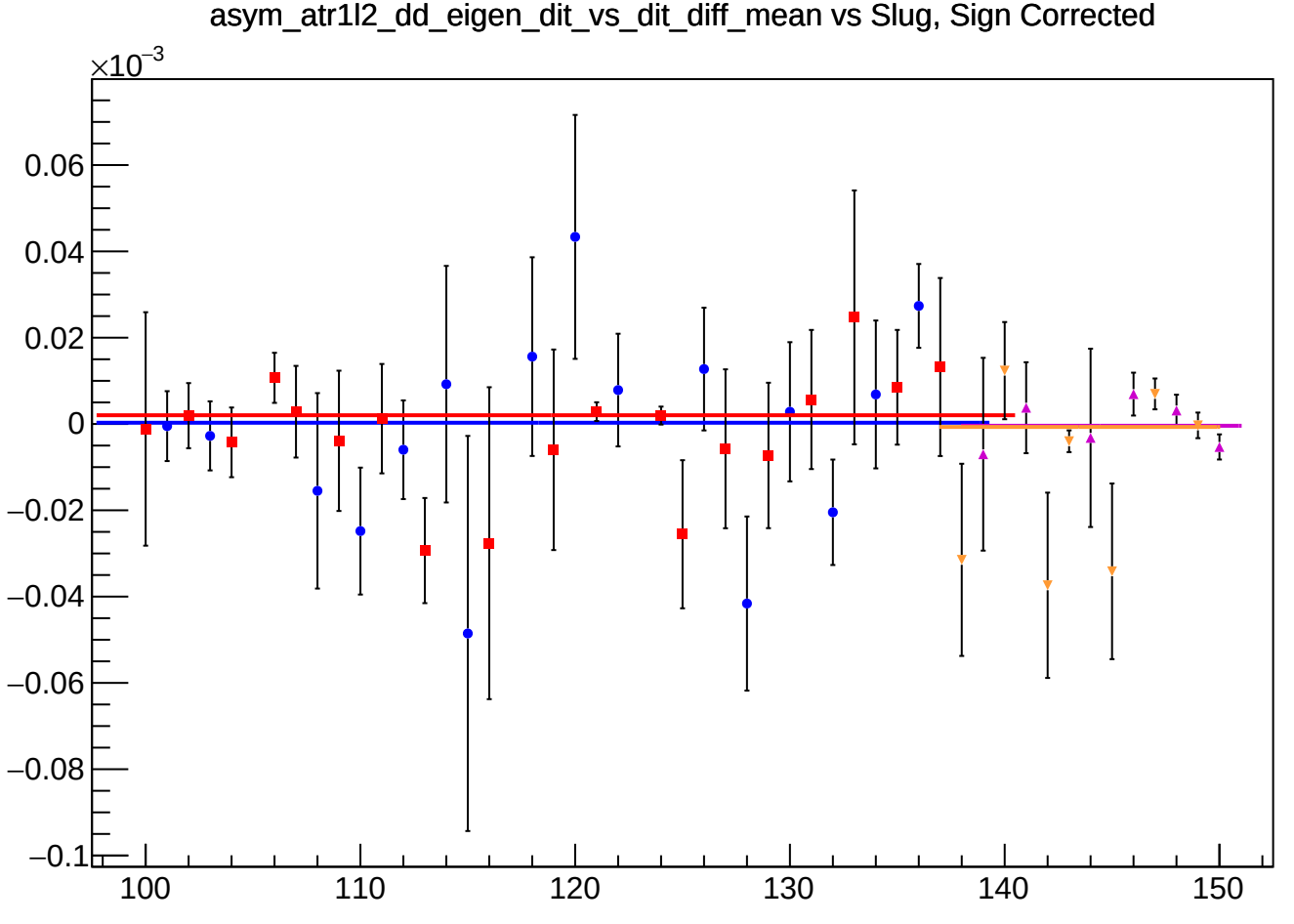
Left: 297.895+/-0.070 $\chi^2$/NDF: 2416596.3/12

Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 137.438+/-0.032 $\chi^2$/NDF:5319390.8/21

Out: 130.130+/-0.032 $\chi^2$/NDF:7175268.7/25

All: 133.761+/-0.022 $\chi^2$/NDF: 12521211.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.2/5

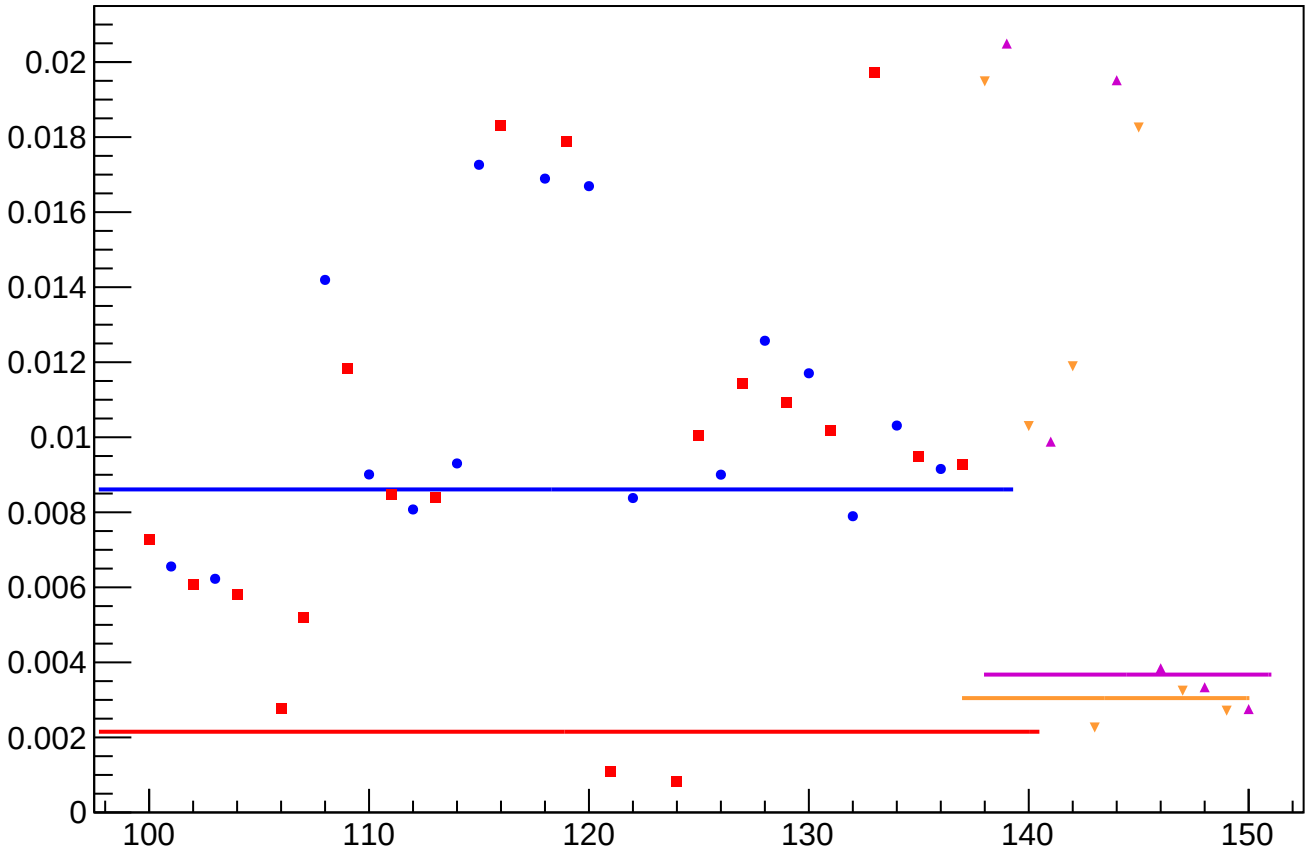
Left: -0.000+/-0.000 $\chi^2$/NDF: 21.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:31.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 62.4/47




Right In: 0.009+/-0.000 $\chi^2$/NDF: 1114251.2/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3600382.2/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9086978.1/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:3222416.0/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 6938312.5/12

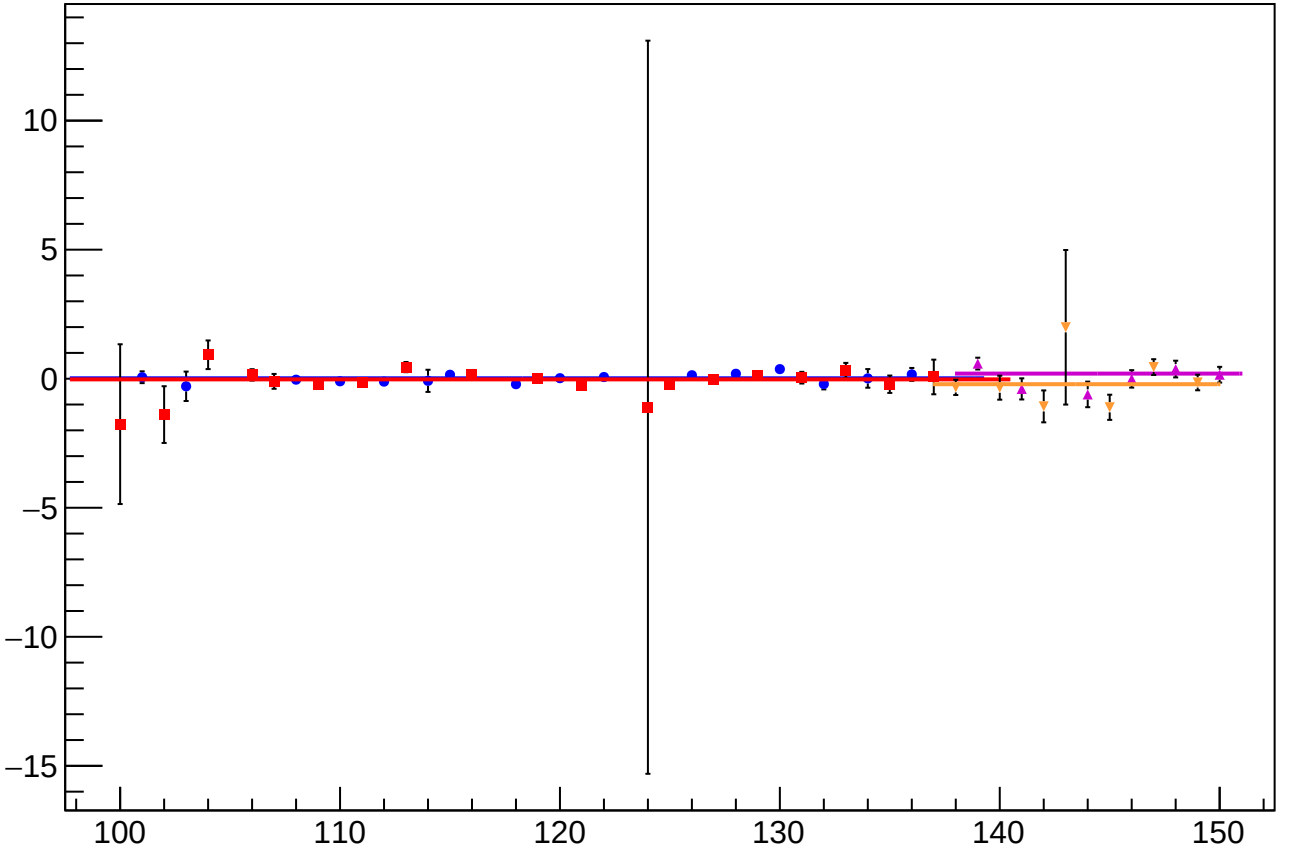
Right: 0.003+/-0.000 $\chi^2$/NDF: 16533209.6/34

In: 0.005+/-0.000 $\chi^2$/NDF:7491522.0/21

Out: 0.003+/-0.000 $\chi^2$/NDF:13041732.6/25

All: 0.003+/-0.000 $\chi^2$/NDF: 23518305.4/47

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: -0.213+/-0.150 $\chi^2$/NDF:10.9/6

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.198+/-0.131 $\chi^2$/NDF:8.3/5

Left: 0.020+/-0.099 $\chi^2$/NDF: 23.4/12

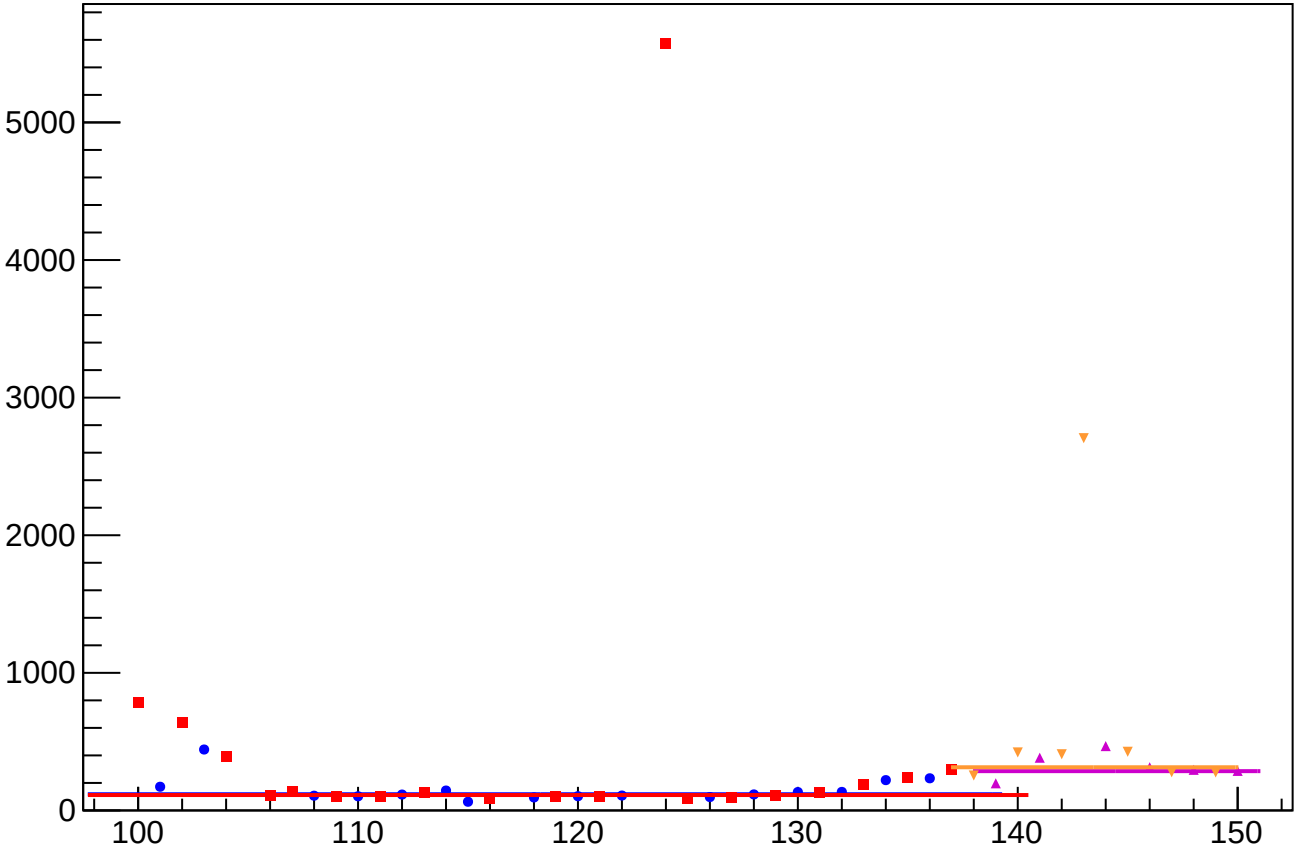
Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.037+/-0.045 $\chi^2$/NDF:21.8/21

Out: -0.042+/-0.045 $\chi^2$/NDF:34.4/25

All: -0.003+/-0.032 $\chi^2$/NDF: 57.7/47

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722367.8/15

Left Out: 313.828+/-0.106 $\chi^2$/NDF:1678484.5/6

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 285.669+/-0.093 $\chi^2$/NDF:698033.1/5

Left: 297.897+/-0.070 $\chi^2$/NDF: 2416598.0/12

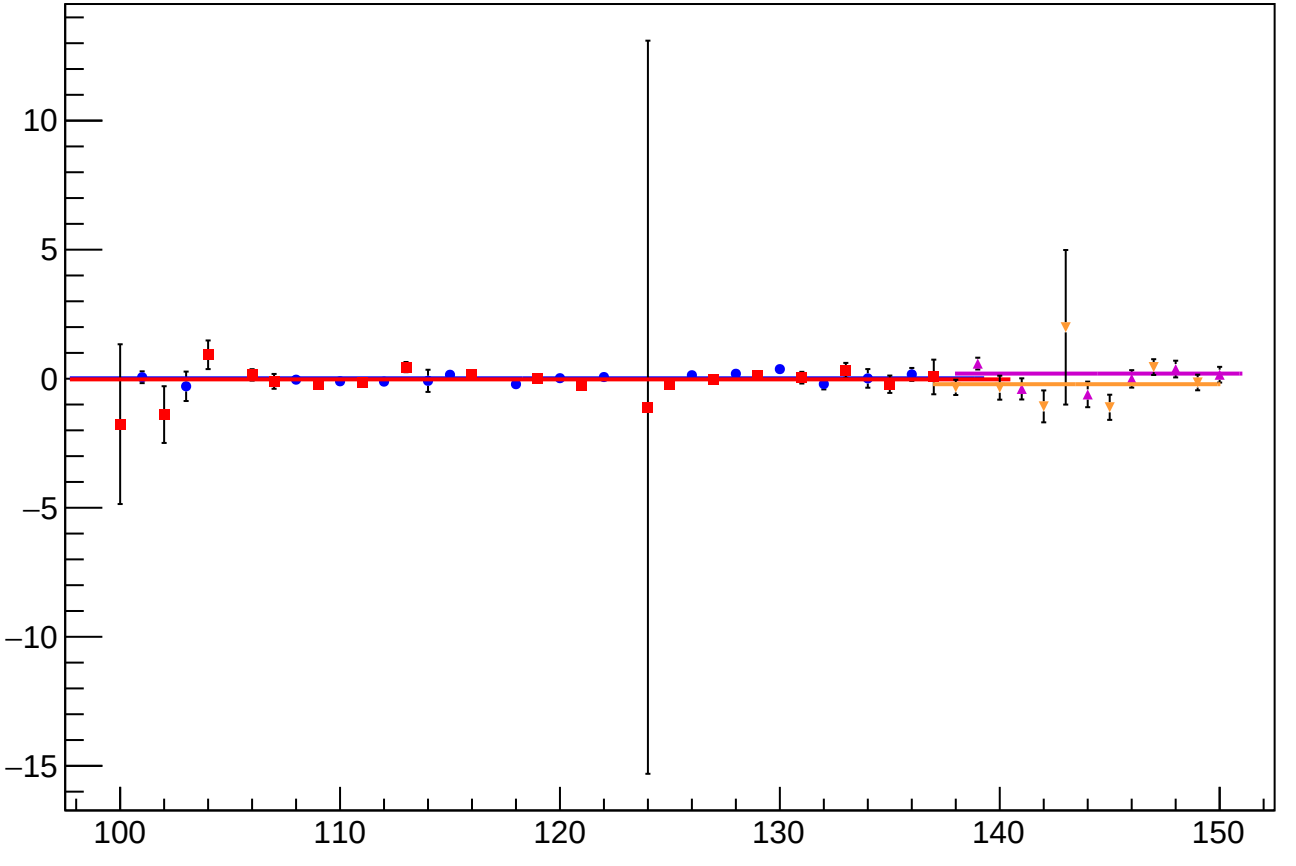
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 137.438+/-0.032 $\chi^2$/NDF:5319397.0/21

Out: 130.132+/-0.032 $\chi^2$/NDF:7175185.5/25

All: 133.762+/-0.022 $\chi^2$/NDF: 12521121.1/47

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: -0.213+/-0.150 $\chi^2$/NDF:10.9/6

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.198+/-0.131 $\chi^2$/NDF:8.3/5

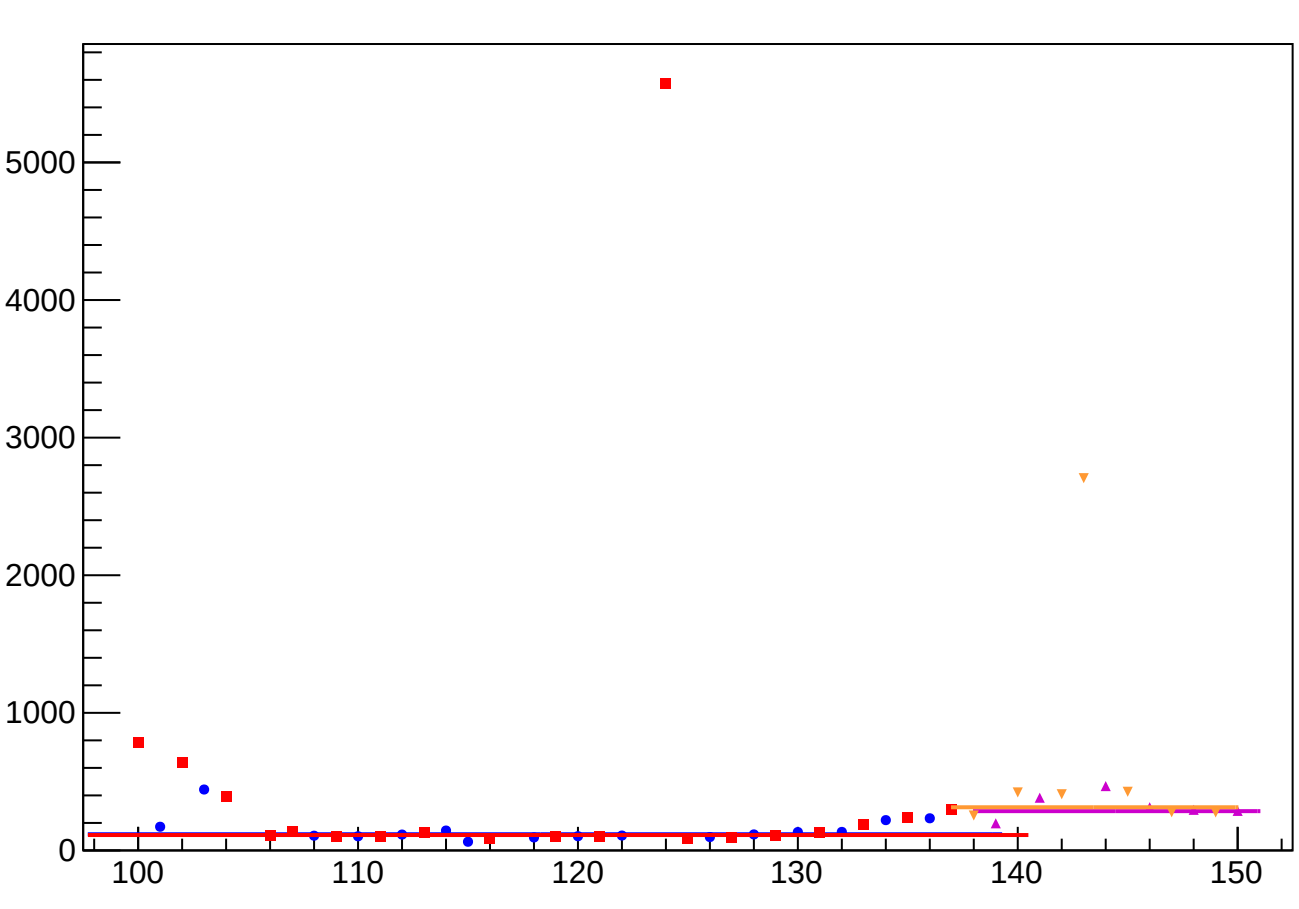
Left: 0.020+/-0.099 $\chi^2$/NDF: 23.4/12

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.037+/-0.045 $\chi^2$/NDF:21.8/21

Out: -0.042+/-0.045 $\chi^2$/NDF:34.4/25

All: -0.003+/-0.032 $\chi^2$/NDF: 57.7/47




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722367.8/15

Left Out: 313.828+/-0.106 $\chi^2$/NDF:1678484.5/6

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 285.669+/-0.093 $\chi^2$/NDF:698033.1/5

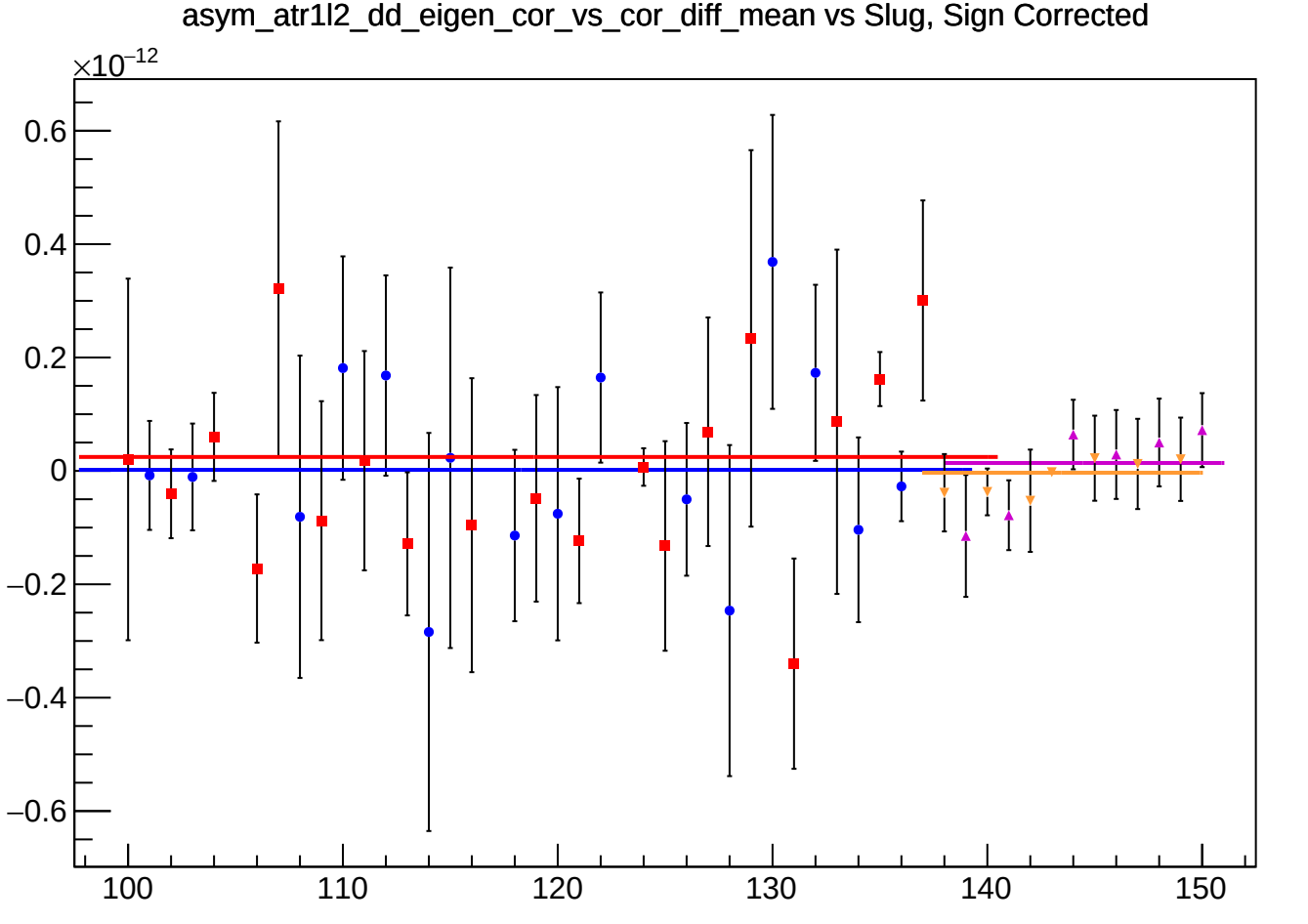
Left: 297.897+/-0.070 $\chi^2$/NDF: 2416598.0/12

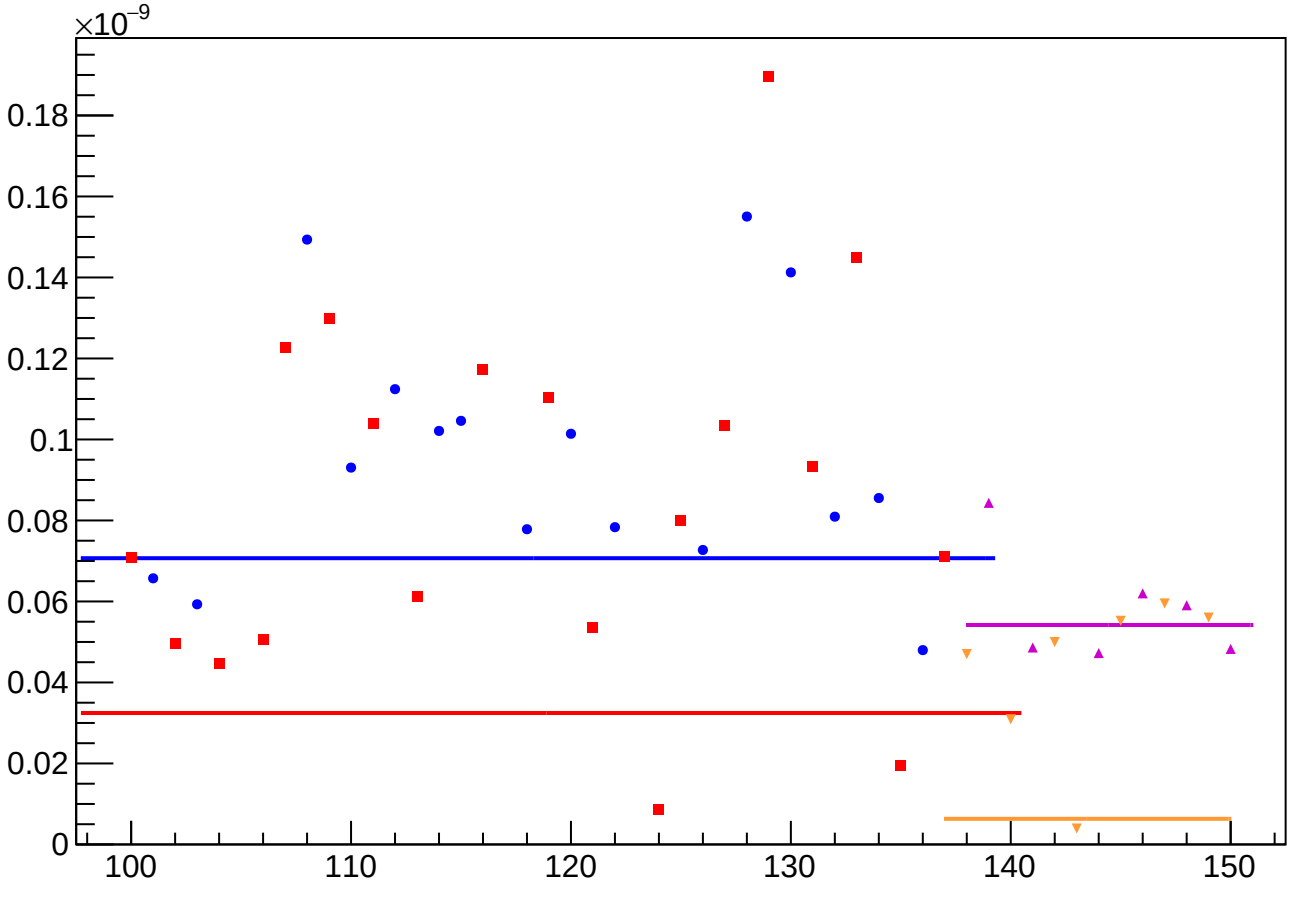
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 137.438+/-0.032 $\chi^2$/NDF:5319397.0/21

Out: 130.132+/-0.032 $\chi^2$/NDF:7175185.5/25

All: 133.762+/-0.022 $\chi^2$/NDF: 12521121.1/47


asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 9.1/15
Left Out: -0.000+/-0.000 χ²/NDF:1.5/6
Right Out: 0.000+/-0.000 χ²/NDF: 24.2/18
Left In: 0.000+/-0.000 χ²/NDF:5.4/5
Left: -0.000+/-0.000 χ²/NDF: 7.2/12
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: 0.000+/-0.000 χ²/NDF:14.6/21
Out: -0.000+/-0.000 χ²/NDF:27.3/25
All: -0.000+/-0.000 χ²/NDF: 42.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1023708.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4806102.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4449161.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:243348.4/5

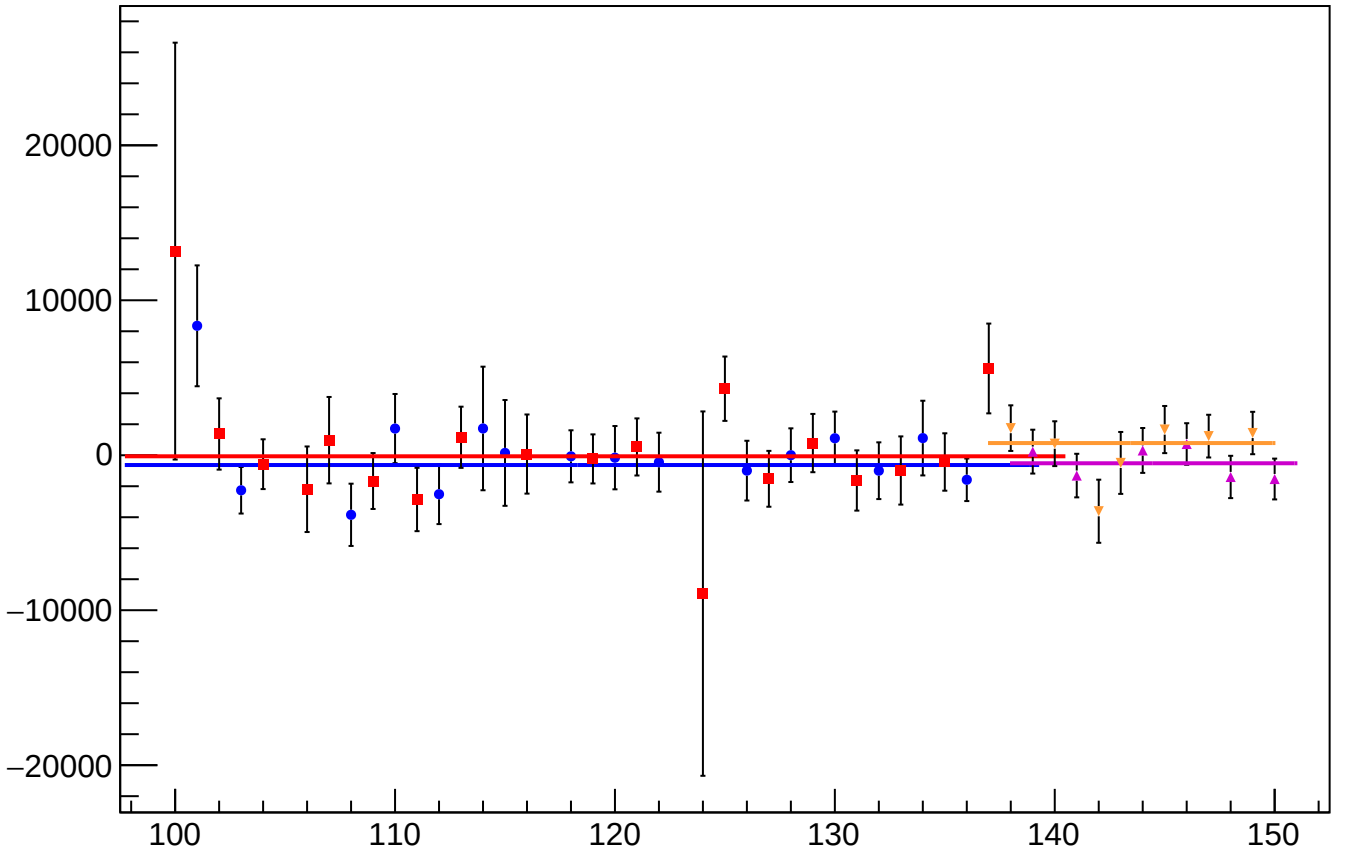
Left: 0.000+/-0.000 $\chi^2$/NDF: 10206191.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 7239318.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:1534607.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:11937896.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 23876224.5/47




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.631+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -517.647+/-563.232 $\chi^2$/NDF:2.8/5

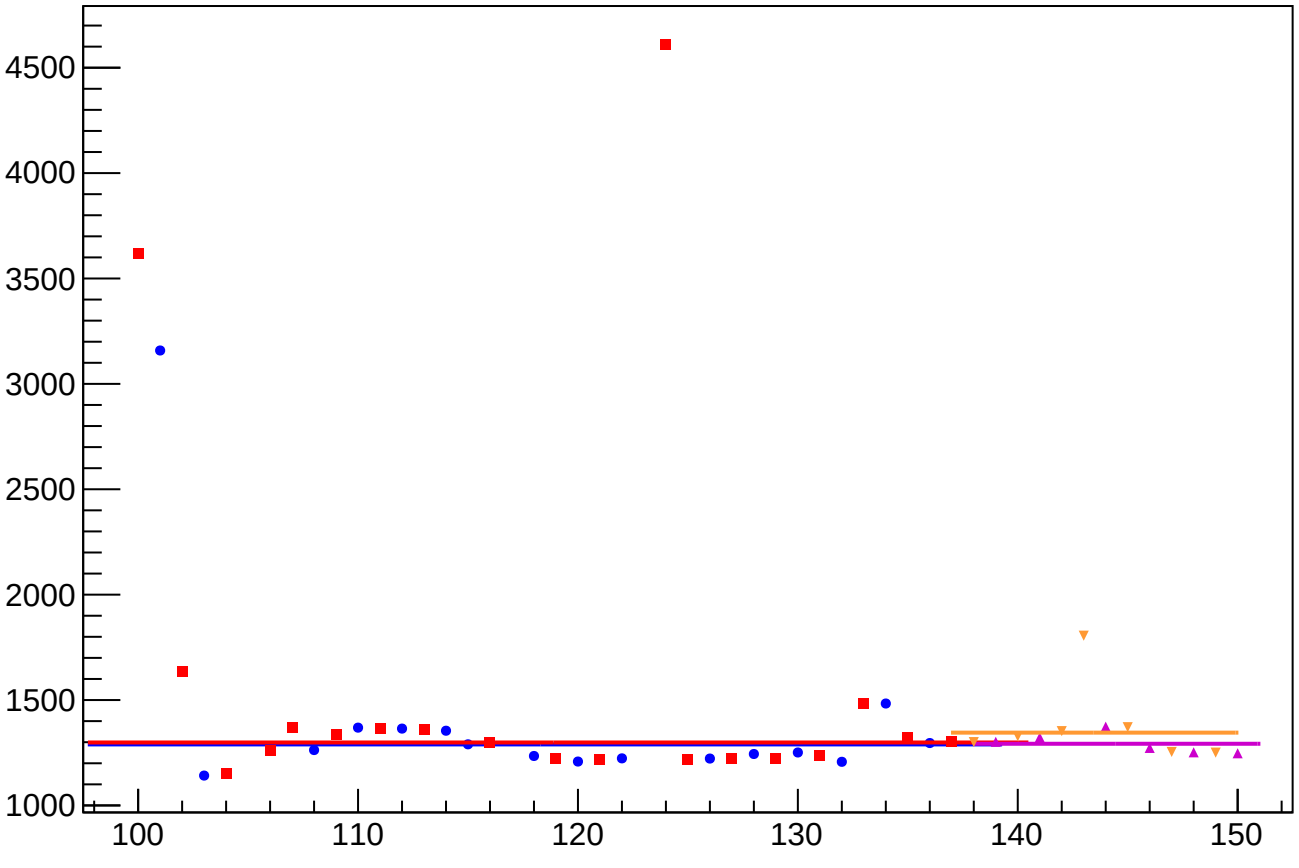
Left: 109.994+/-405.677 $\chi^2$/NDF: 11.6/12

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -582.342+/-369.106 $\chi^2$/NDF:16.7/21

Out: 282.830+/-374.574 $\chi^2$/NDF:23.3/25

All: -156.118+/-262.909 $\chi^2$/NDF: 42.7/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

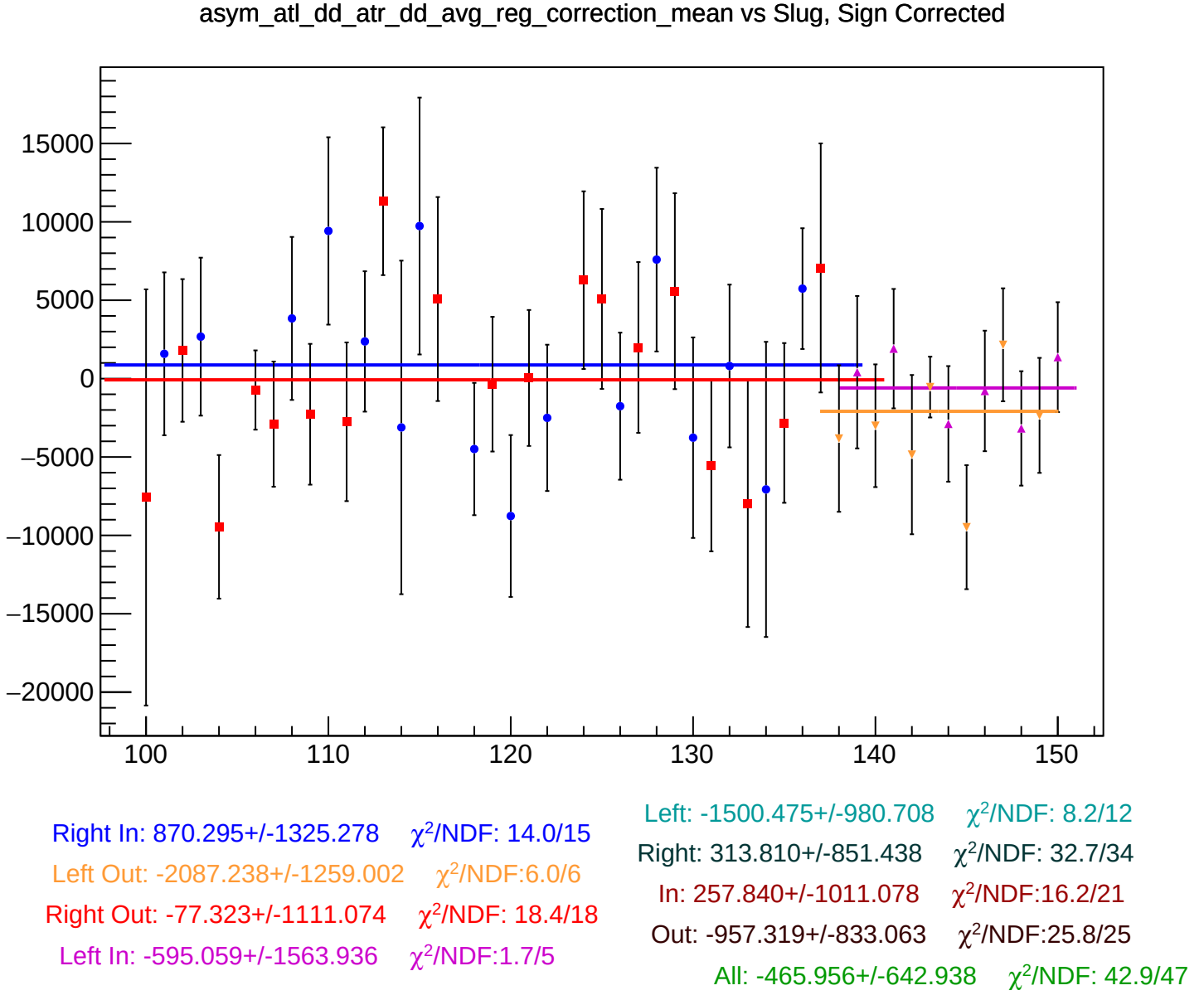
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526539.1/21

Out: 1317.766+/-0.264 $\chi^2$/NDF:454067.0/25

All: 1304.102+/-0.186 $\chi^2$/NDF: 985876.0/47


asym_atl_dd_atr_dd_avg_reg_correction_mean vs Slug, Sign Corrected
15000
10000
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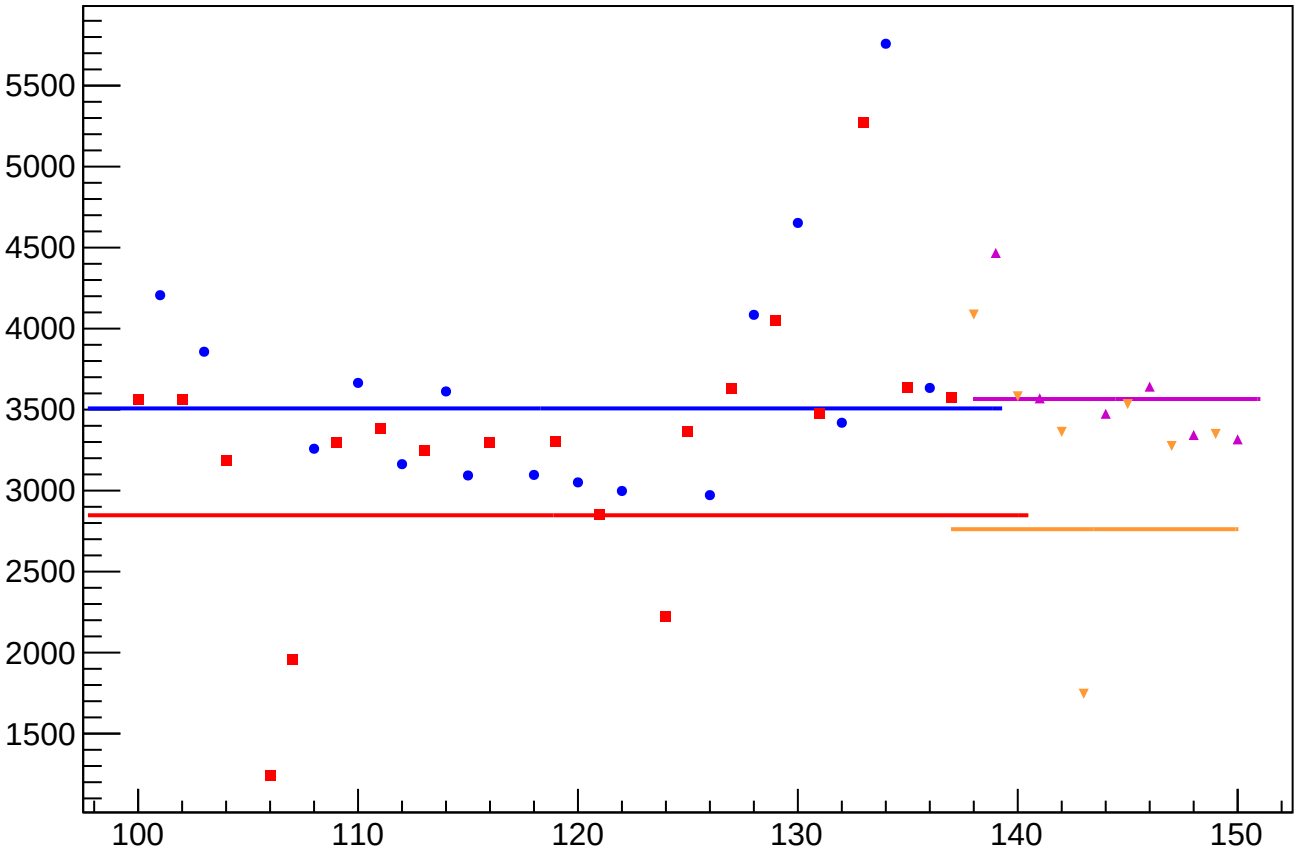
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 870.295+/-1325.278 χ²/NDF: 14.0/15
Left Out: -2087.238+/-1259.002 χ²/NDF:6.0/6
Right Out: -77.323+/-1111.074 χ²/NDF: 18.4/18
Left In: -595.059+/-1563.936 χ²/NDF:1.7/5
Left: -1500.475+/-980.708 χ²/NDF: 8.2/12
Right: 313.810+/-851.438 χ²/NDF: 32.7/34
In: 257.840+/-1011.078 χ²/NDF:16.2/21
Out: -957.319+/-833.063 χ²/NDF:25.8/25
All: -465.956+/-642.938 χ²/NDF: 42.9/47




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2761.911+/-0.890 $\chi^2$/NDF:993241.5/6

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3565.427+/-1.106 $\chi^2$/NDF:88295.7/5

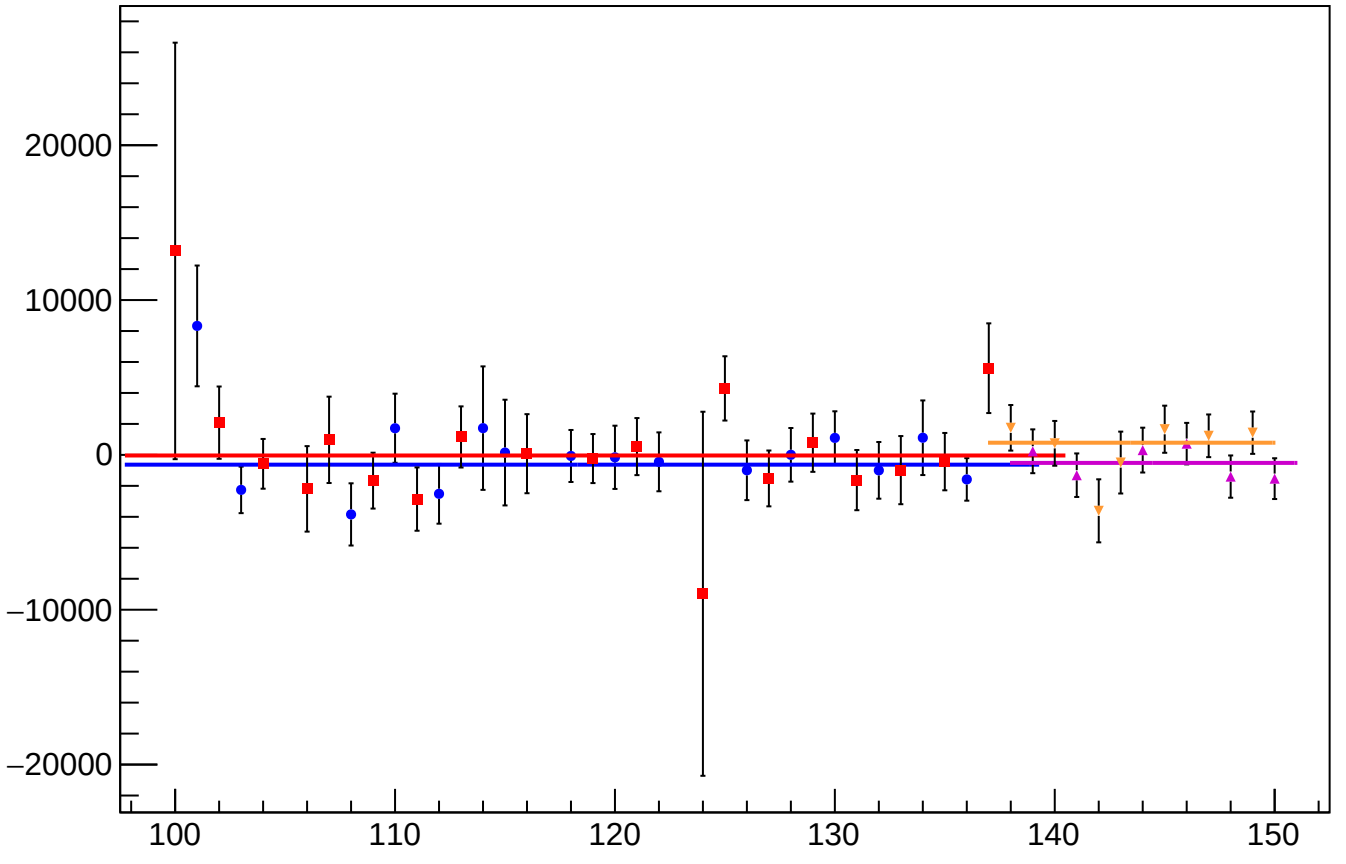
Left: 3077.874+/-0.693 $\chi^2$/NDF: 1401875.3/12

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3531.651+/-0.715 $\chi^2$/NDF:443877.5/21

Out: 2810.214+/-0.589 $\chi^2$/NDF:2497851.8/25

All: 3101.935+/-0.455 $\chi^2$/NDF: 3548243.4/47




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.523+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -517.618+/-563.232 $\chi^2$/NDF:2.8/5

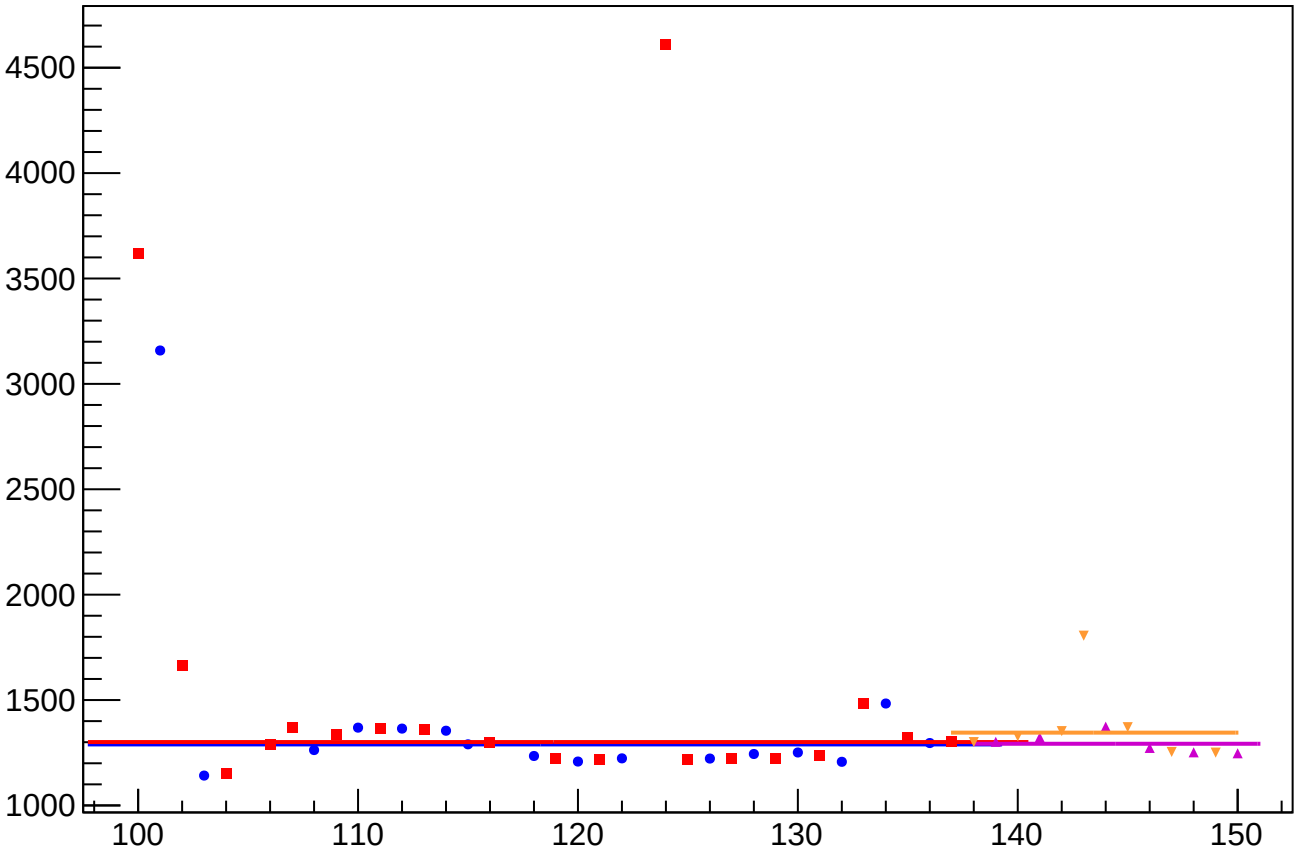
Left: 109.958+/-405.677 $\chi^2$/NDF: 11.5/12

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -582.550+/-369.106 $\chi^2$/NDF:16.7/21

Out: 300.165+/-374.721 $\chi^2$/NDF:23.7/25

All: -147.855+/-262.960 $\chi^2$/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

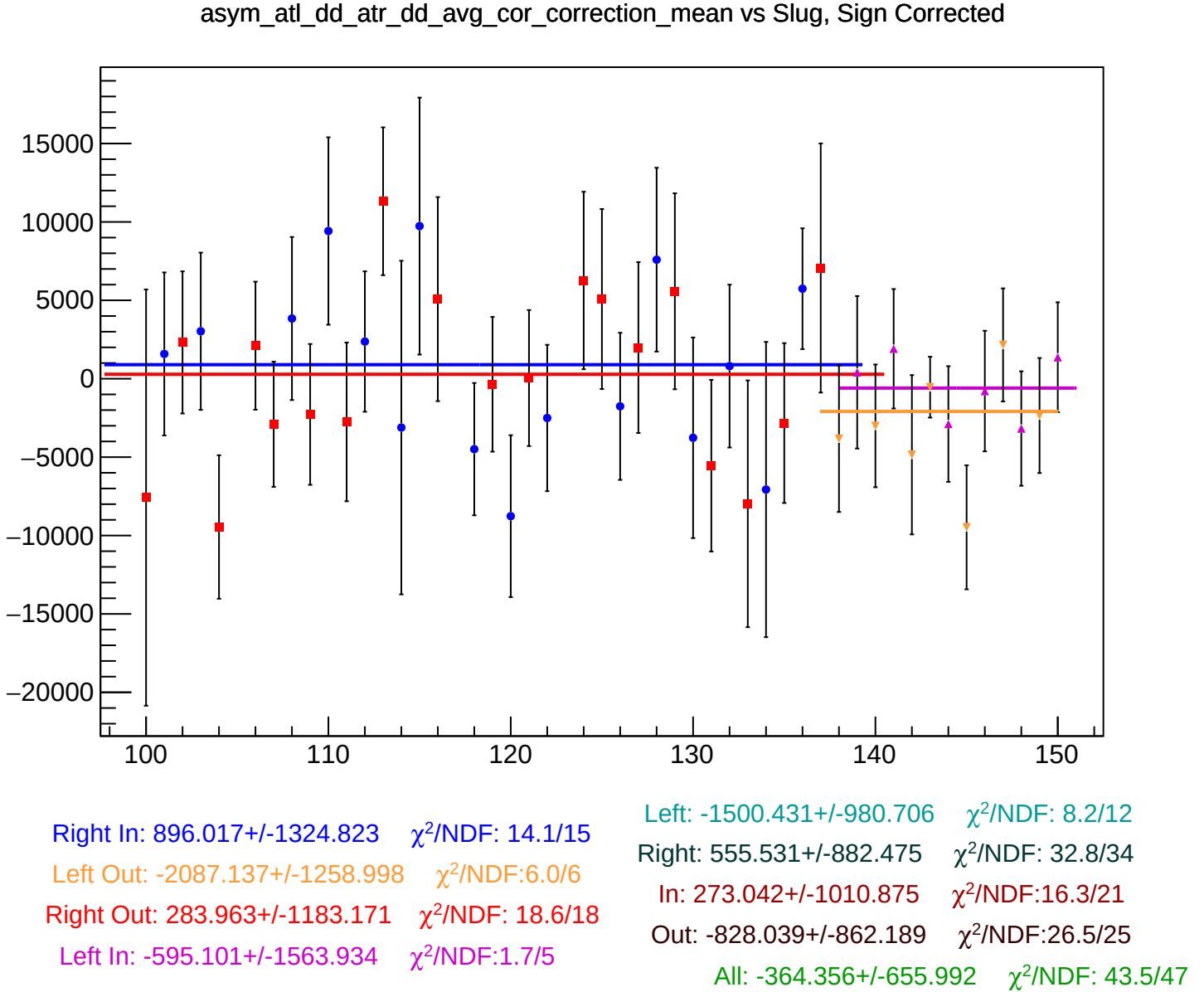
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47


asym_atl_dd_atr_dd_avg_cor_correction_mean vs Slug, Sign Corrected
15000
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−5000
−10000
−15000
−20000
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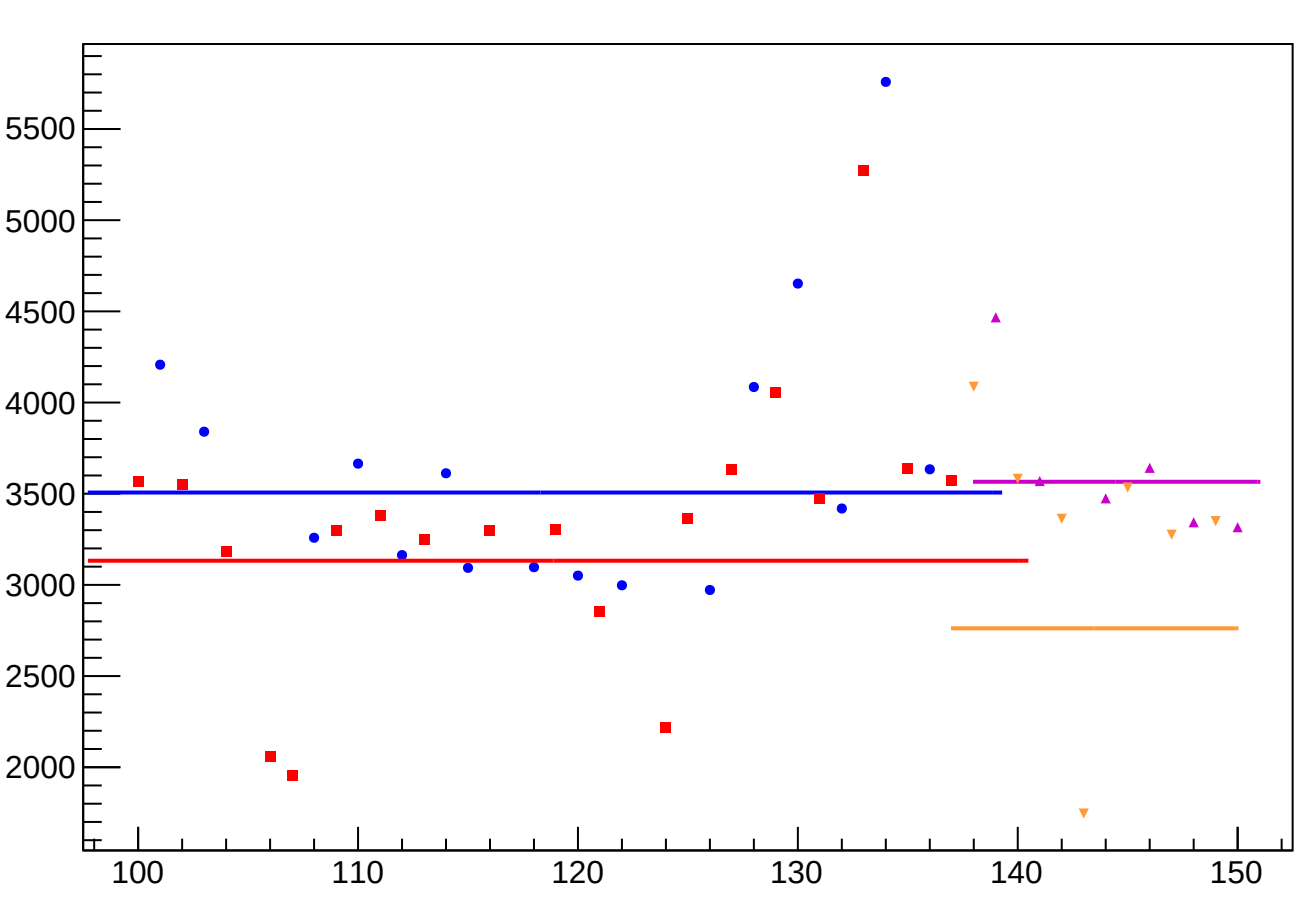
140
150
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2087.137+/-1258.998 χ²/NDF:6.0/6
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -595.101+/-1563.934 χ²/NDF:1.7/5
Left: -1500.431+/-980.706 χ²/NDF: 8.2/12
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 273.042+/-1010.875 χ²/NDF:16.3/21
Out: -828.039+/-862.189 χ²/NDF:26.5/25
All: -364.356+/-655.992 χ²/NDF: 43.5/47




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

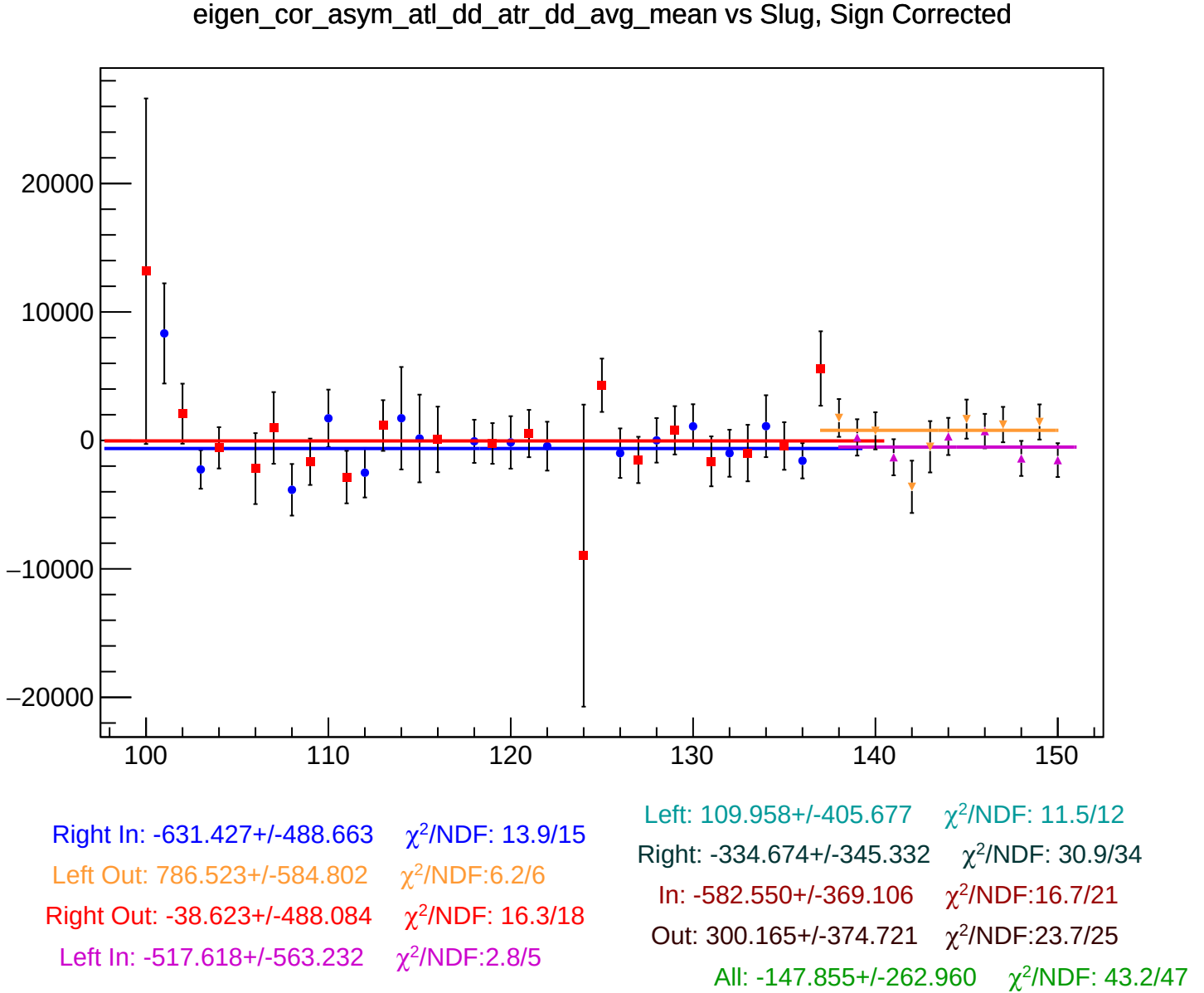
Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected
20000
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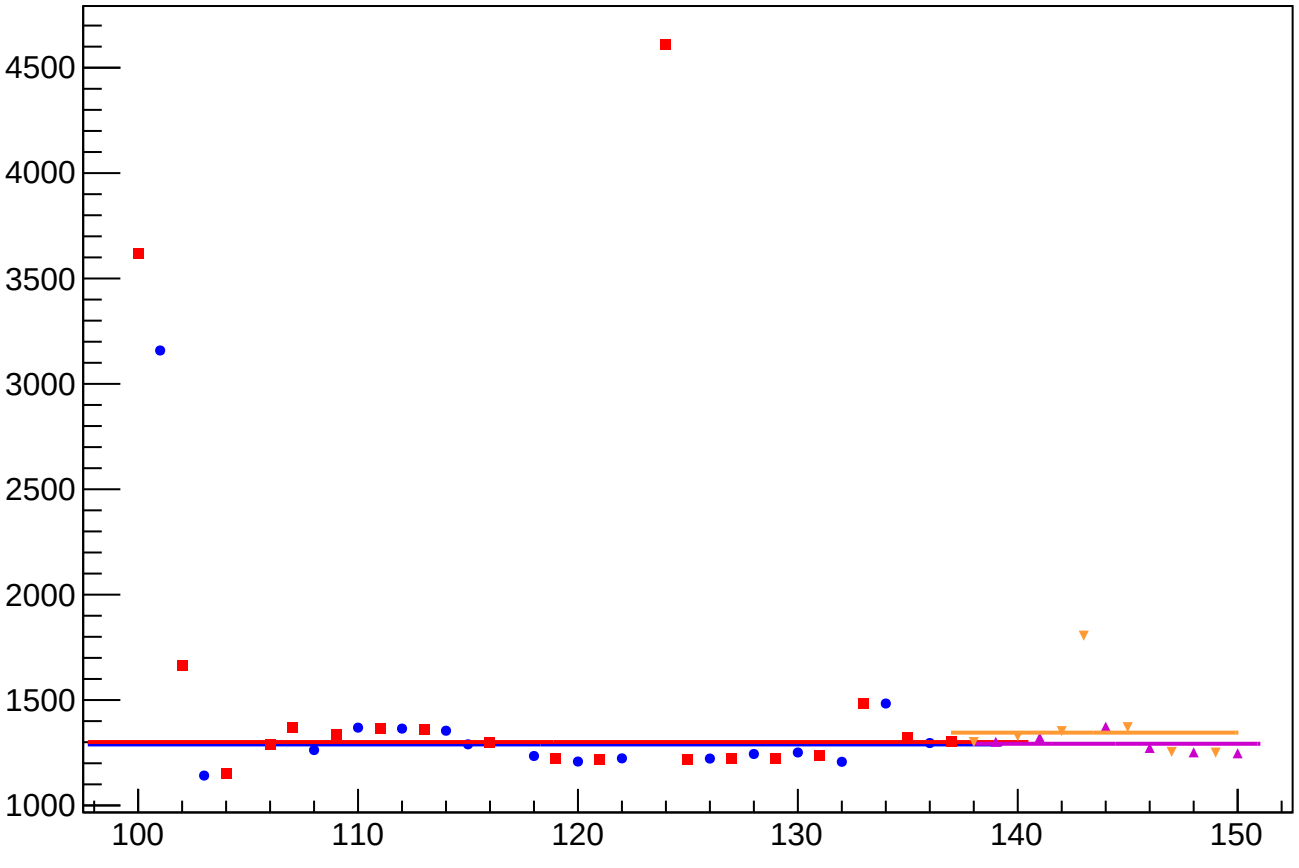
−10000
−20000
100
110
120
130
140
150
Right In: -631.427+/-488.663 χ²/NDF: 13.9/15
Left Out: 786.523+/-584.802 χ²/NDF:6.2/6
Right Out: -38.623+/-488.084 χ²/NDF: 16.3/18
Left In: -517.618+/-563.232 χ²/NDF:2.8/5
Left: 109.958+/-405.677 χ²/NDF: 11.5/12
Right: -334.674+/-345.332 χ²/NDF: 30.9/34
In: -582.550+/-369.106 χ²/NDF:16.7/21
Out: 300.165+/-374.721 χ²/NDF:23.7/25
All: -147.855+/-262.960 χ²/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

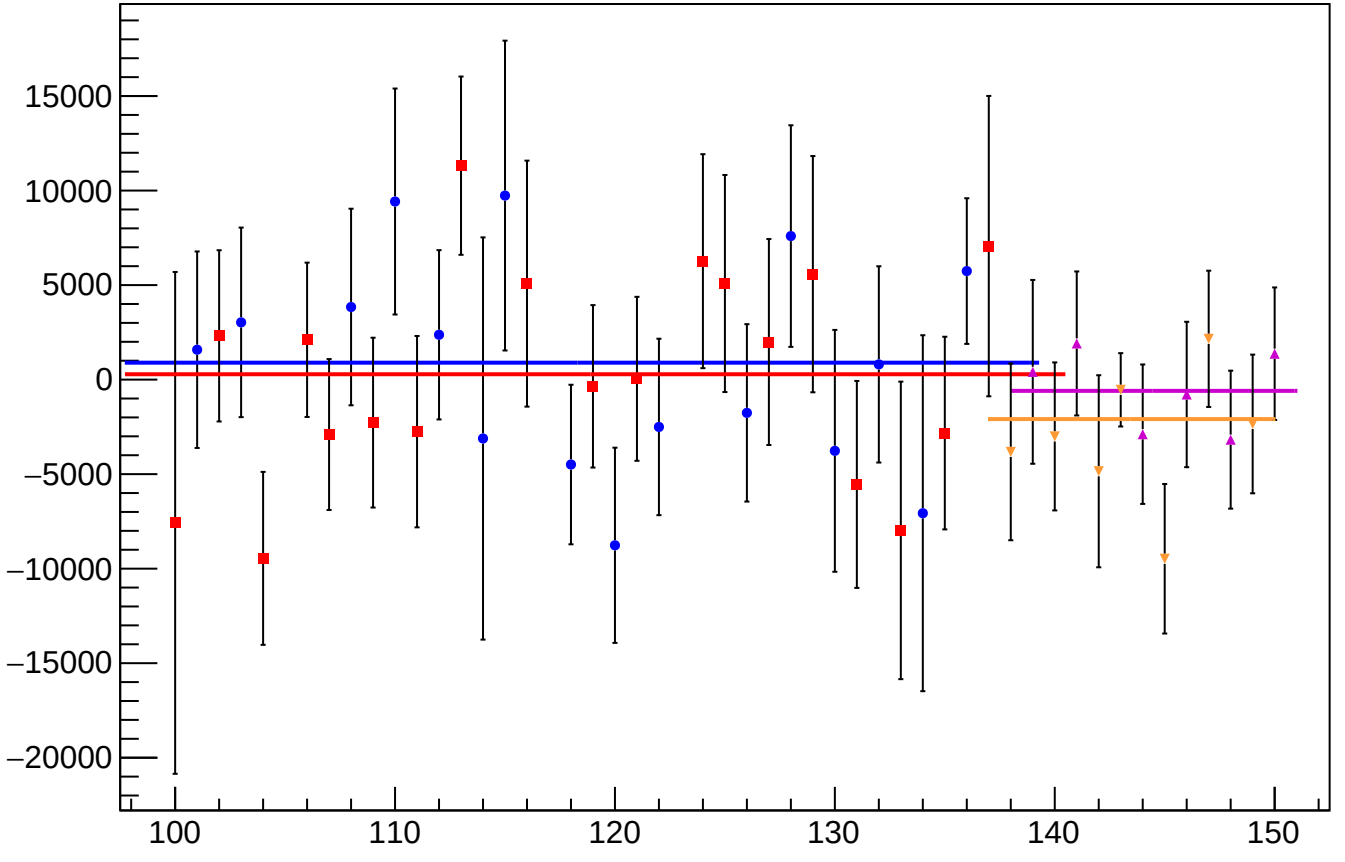
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -2087.137+/-1258.998 $\chi^2$/NDF:6.0/6

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -595.101+/-1563.934 $\chi^2$/NDF:1.7/5

Left: -1500.431+/-980.706 $\chi^2$/NDF: 8.2/12

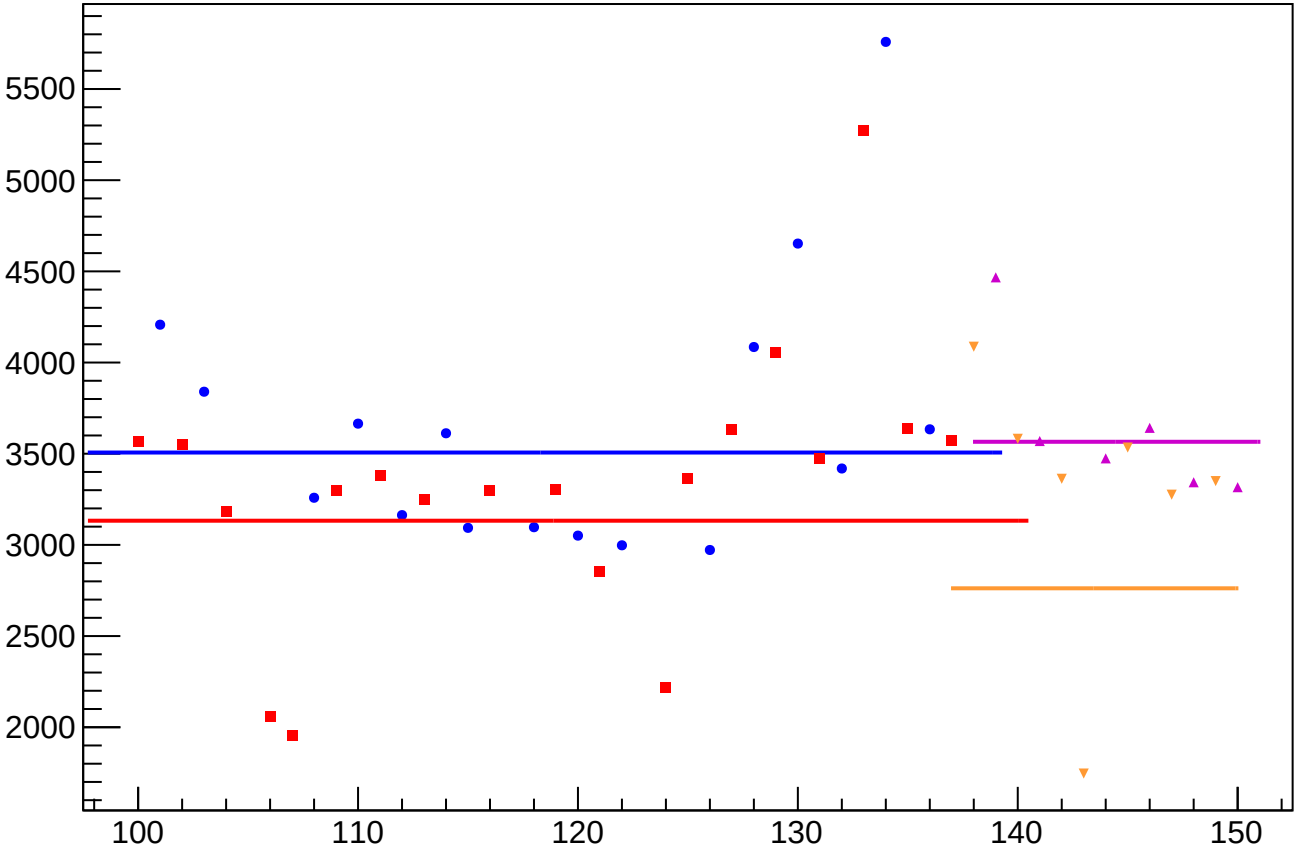
Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 273.042+/-1010.875 $\chi^2$/NDF:16.3/21

Out: -828.039+/-862.189 $\chi^2$/NDF:26.5/25

All: -364.356+/-655.992 $\chi^2$/NDF: 43.5/47

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

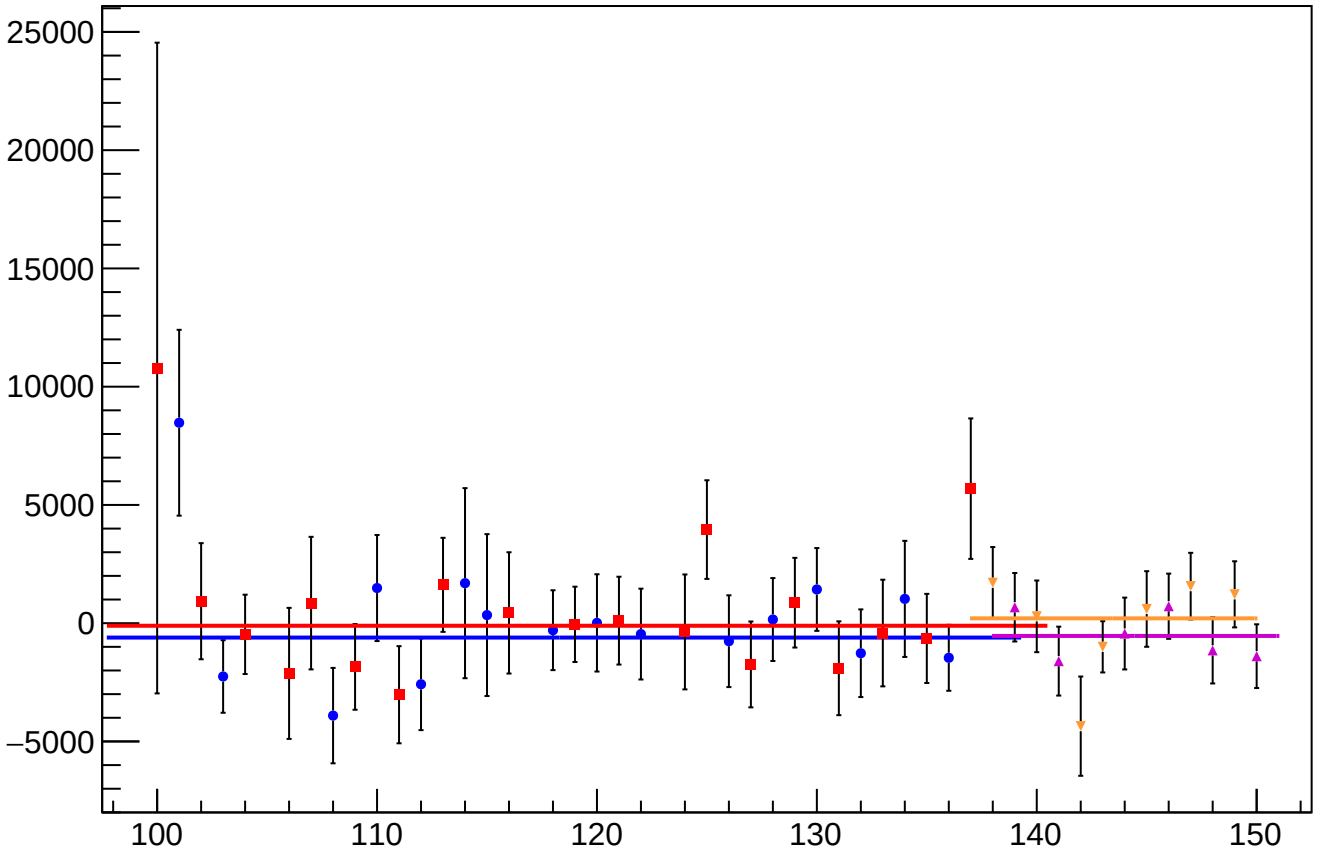
Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.117+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.335 $\chi^2$/NDF:2.7/5

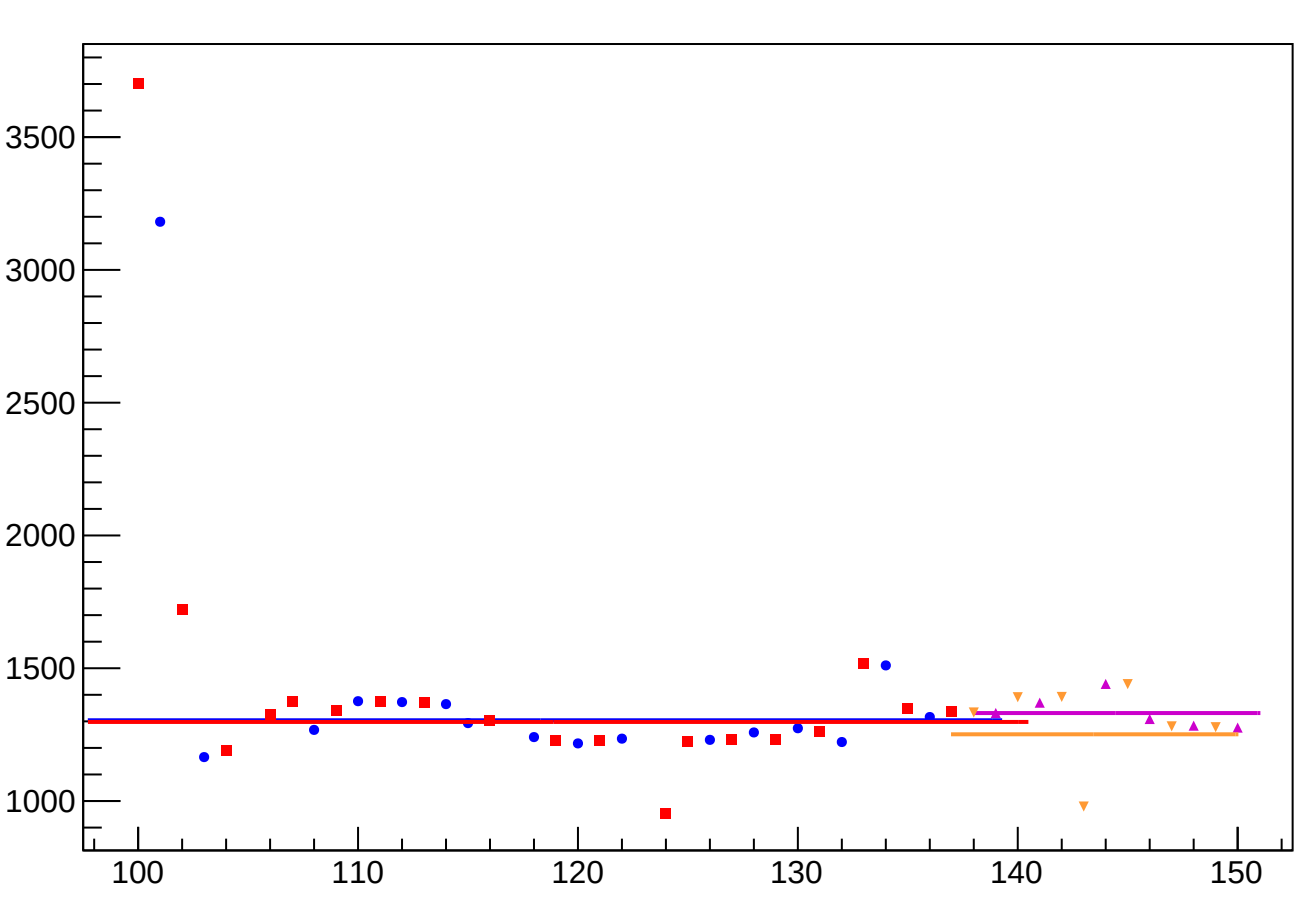
Left: -144.585+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.960+/-376.249 $\chi^2$/NDF:16.8/21

Out: 29.610+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.526+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1251.266+/-0.386 $\chi^2$/NDF:187430.1/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1331.283+/-0.410 $\chi^2$/NDF:18010.4/5

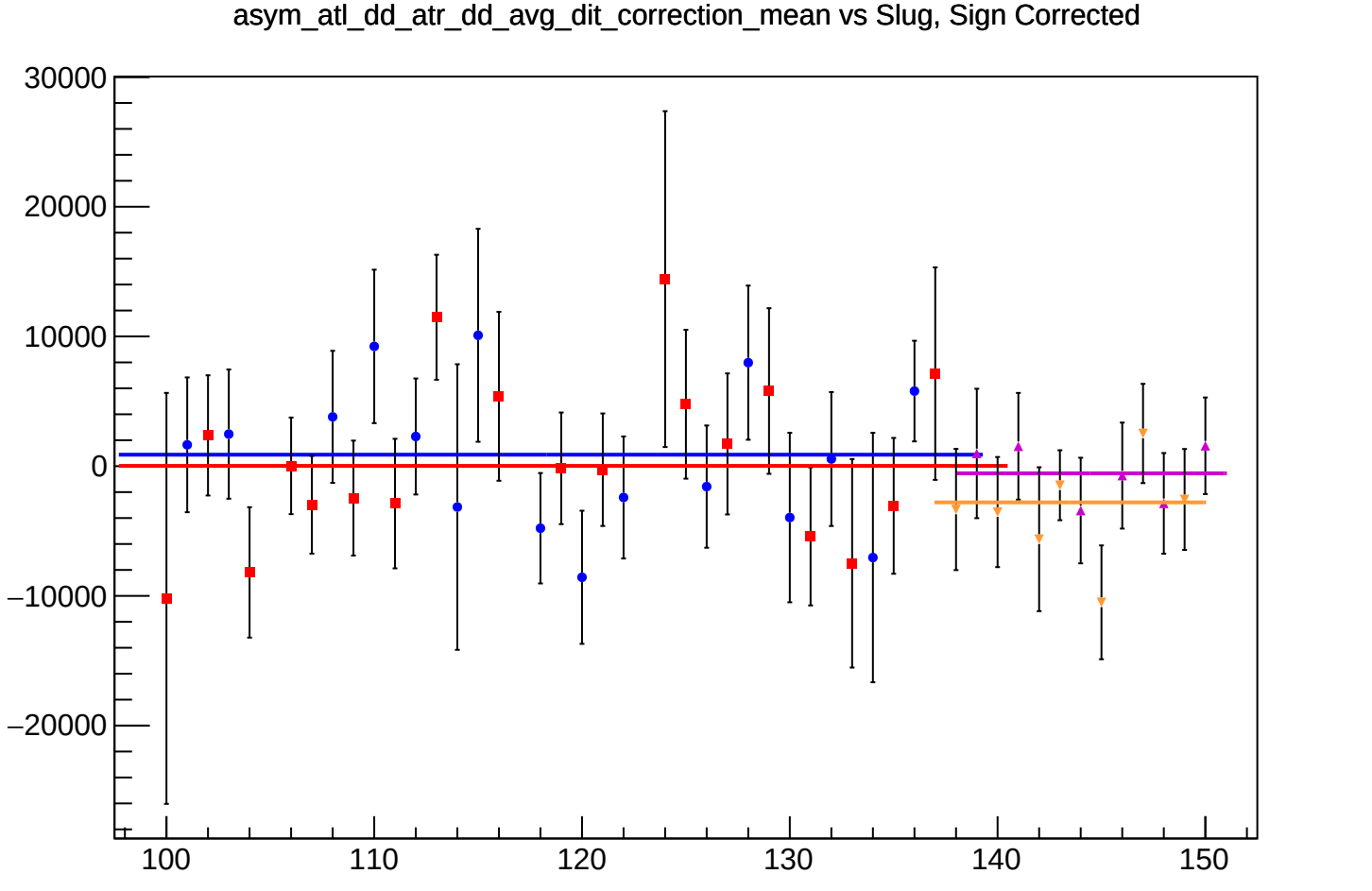
Left: 1288.806+/-0.281 $\chi^2$/NDF: 225624.6/12

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1315.527+/-0.266 $\chi^2$/NDF:531142.9/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.0/47




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.285 $\chi^2$/NDF:5.6/6

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -550.568+/-1670.988 $\chi^2$/NDF:1.5/5

Left: -1807.622+/-1107.196 $\chi^2$/NDF: 8.1/12

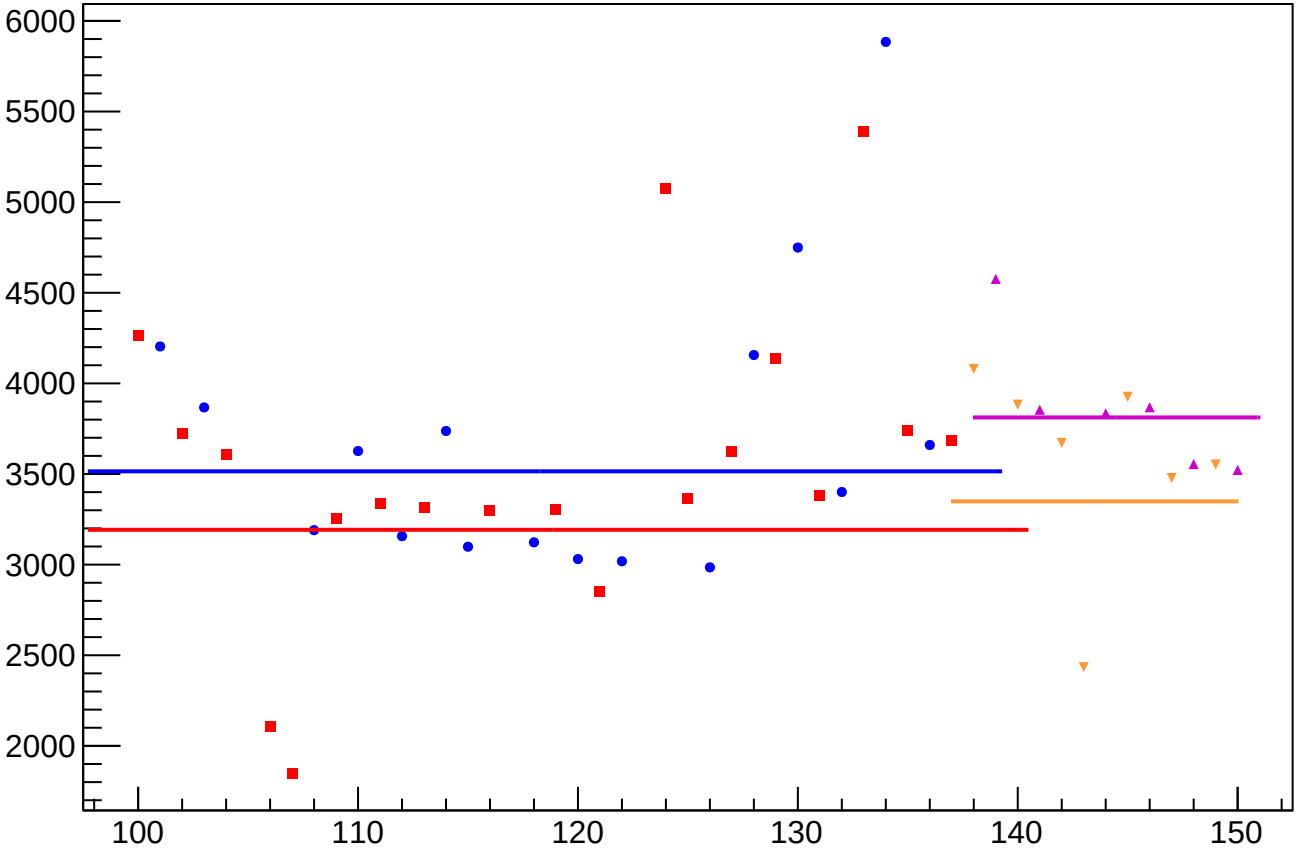
Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 329.010+/-1039.368 $\chi^2$/NDF:16.1/21

Out: -1096.334+/-931.685 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.758 $\chi^2$/NDF: 41.7/47

asym_atl_dd_atr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3349.085+/-1.045 $\chi^2$/NDF:359788.3/6

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 3812.116+/-1.182 $\chi^2$/NDF:68525.5/5

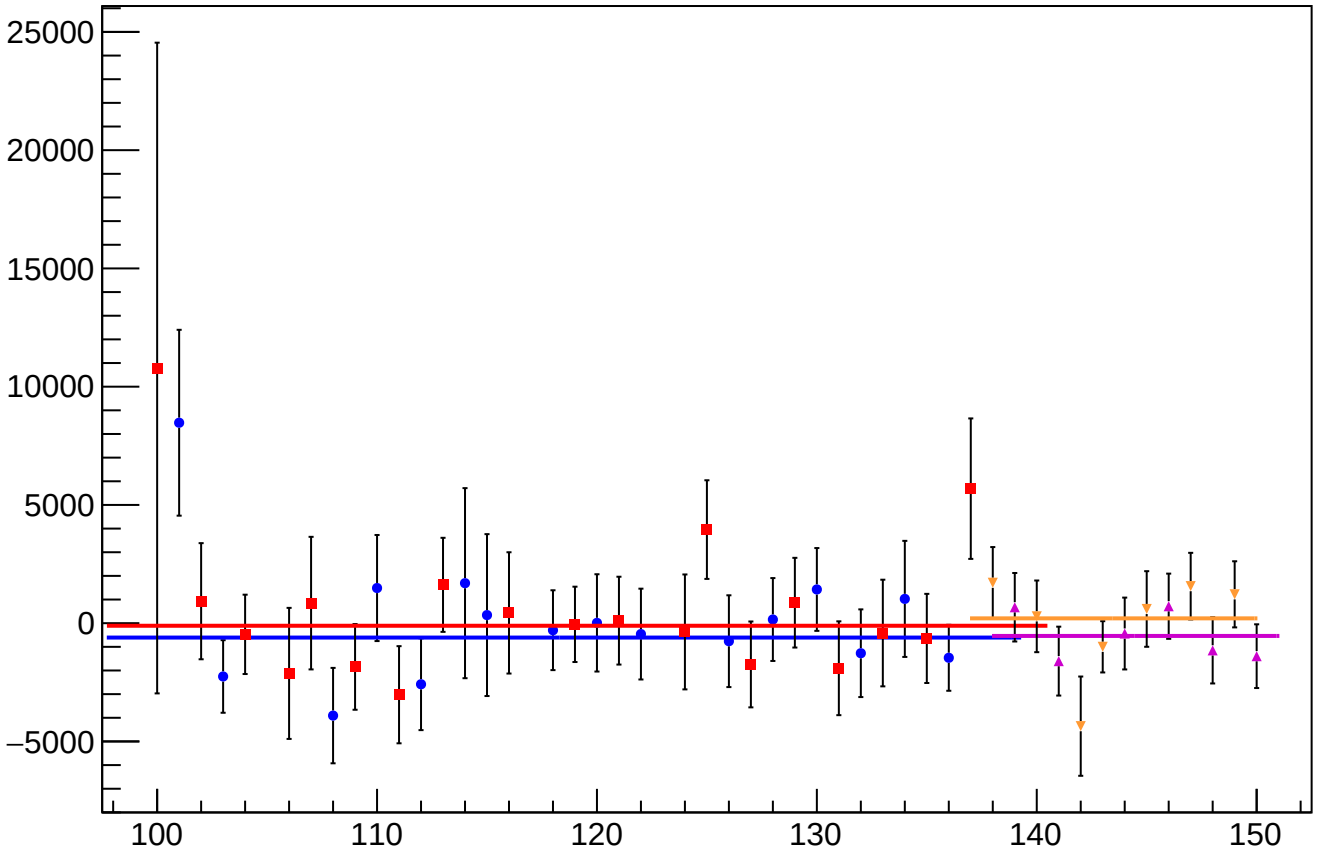
Left: 3552.373+/-0.783 $\chi^2$/NDF: 514460.0/12

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3629.796+/-0.735 $\chi^2$/NDF:482438.4/21

Out: 3254.519+/-0.659 $\chi^2$/NDF:1145861.6/25

All: 3421.716+/-0.491 $\chi^2$/NDF: 1772868.8/47




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.113+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.336 $\chi^2$/NDF:2.7/5

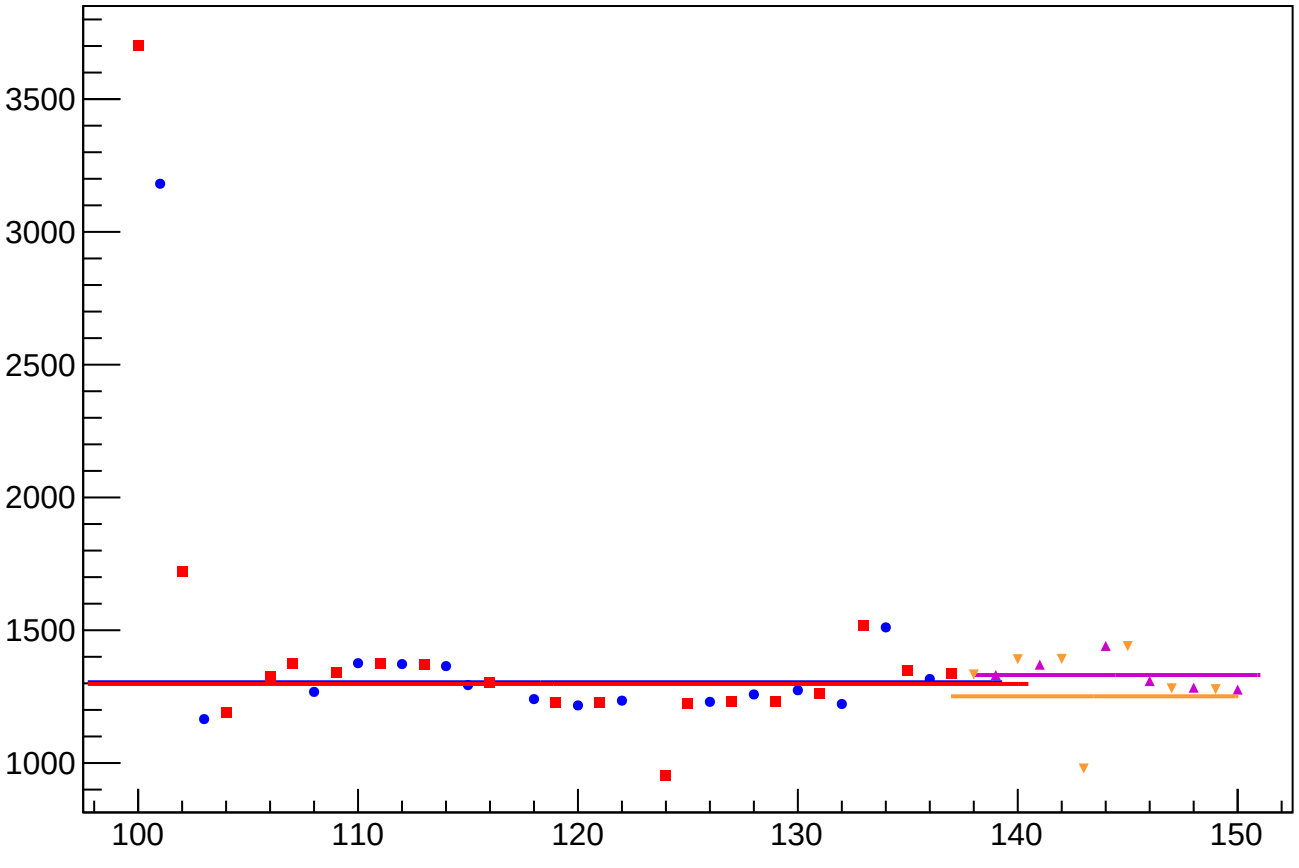
Left: -144.587+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.962+/-376.250 $\chi^2$/NDF:16.8/21

Out: 29.606+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.529+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1251.267+/-0.386 $\chi^2$/NDF:187430.4/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1331.284+/-0.410 $\chi^2$/NDF:18010.5/5

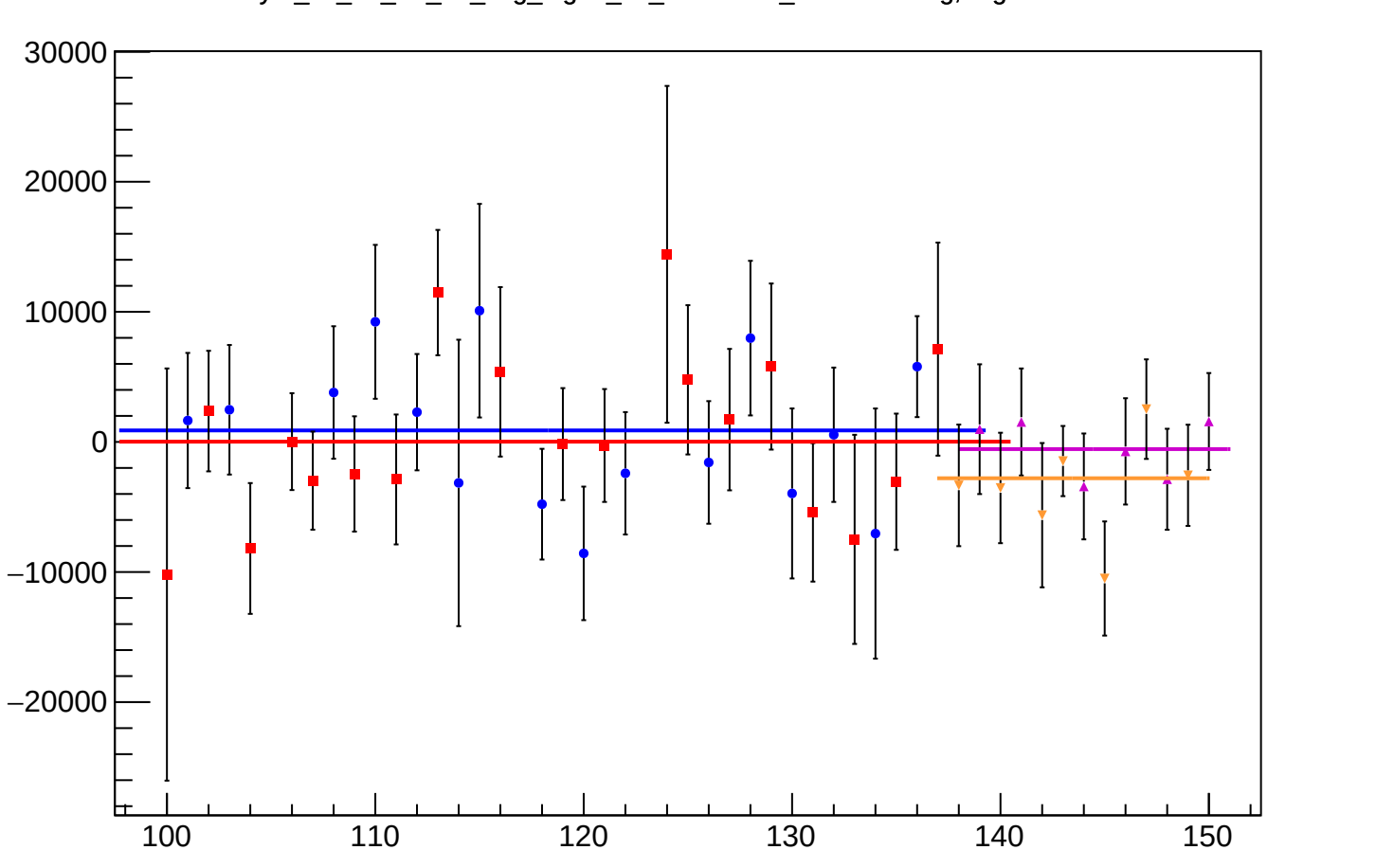
Left: 1288.807+/-0.281 $\chi^2$/NDF: 225624.9/12

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1315.528+/-0.266 $\chi^2$/NDF:531143.4/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.4/47




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.287 $\chi^2$/NDF:5.6/6

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -550.566+/-1670.990 $\chi^2$/NDF:1.5/5

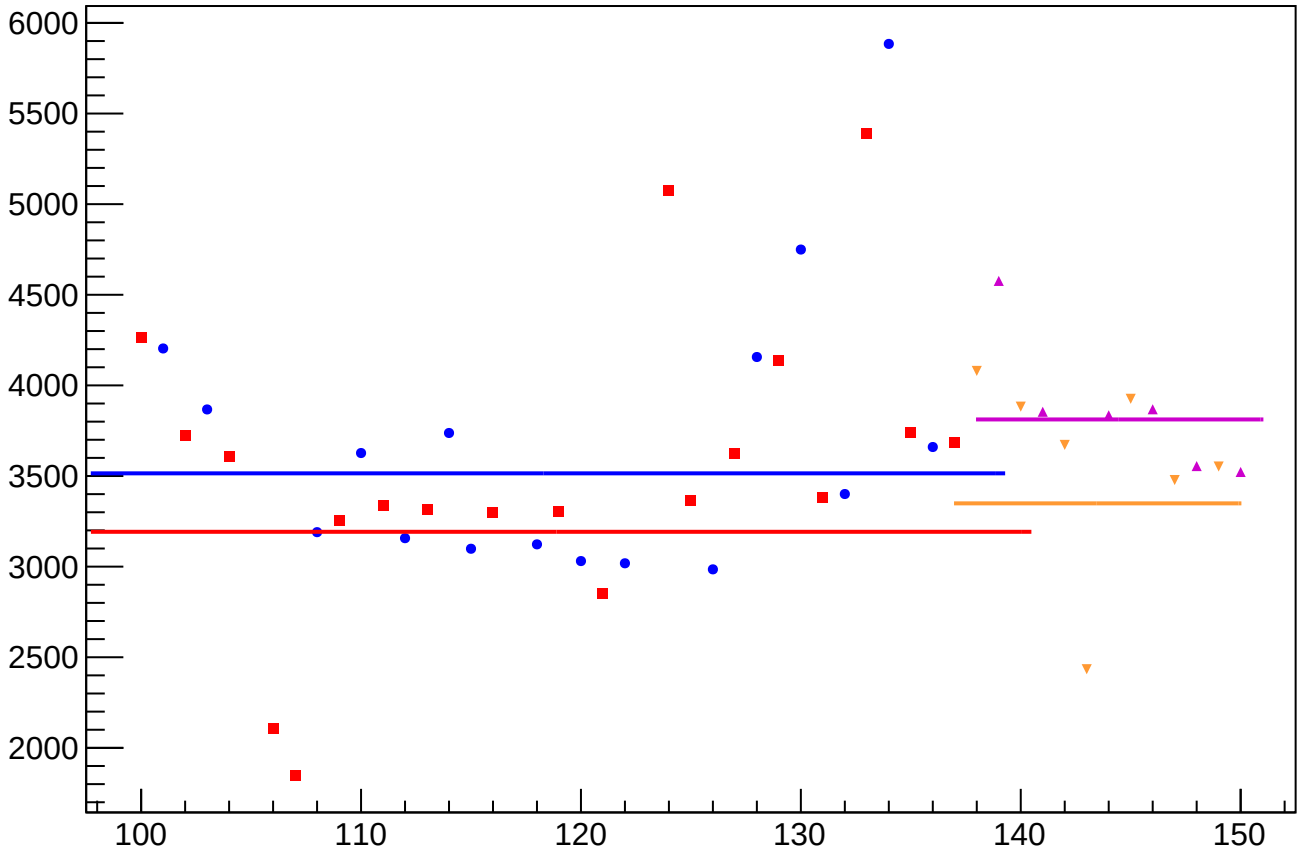
Left: -1807.621+/-1107.198 $\chi^2$/NDF: 8.1/12

Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 329.006+/-1039.367 $\chi^2$/NDF:16.1/21

Out: -1096.331+/-931.684 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.757 $\chi^2$/NDF: 41.7/47




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3349.090+/-1.045 $\chi^2$/NDF:359788.9/6

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 3812.121+/-1.182 $\chi^2$/NDF:68526.6/5

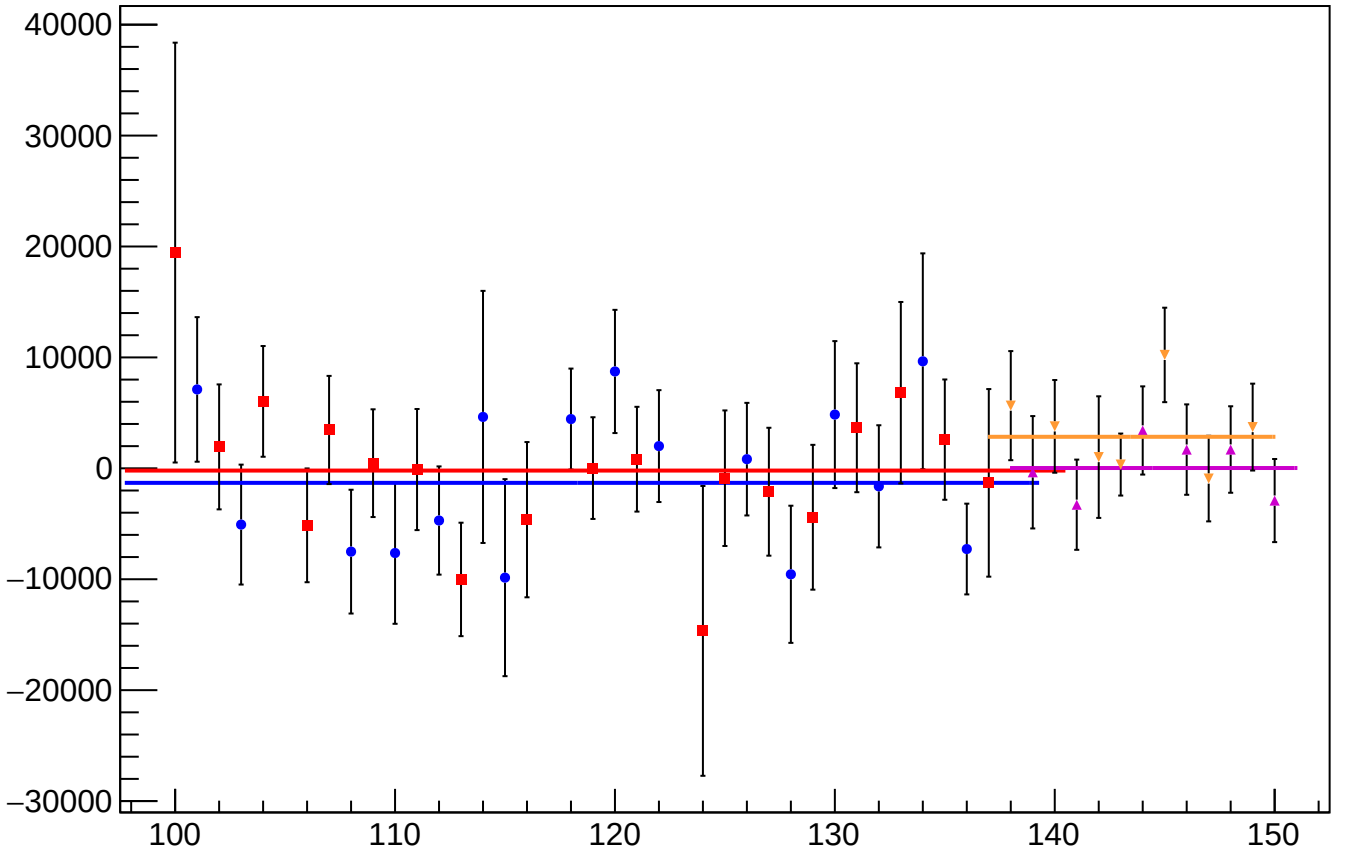
Left: 3552.378+/-0.783 $\chi^2$/NDF: 514461.5/12

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3629.792+/-0.735 $\chi^2$/NDF:482447.3/21

Out: 3254.516+/-0.659 $\chi^2$/NDF:1145866.6/25

All: 3421.713+/-0.491 $\chi^2$/NDF: 1772882.2/47




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 2842.696+/-1495.106 $\chi^2$/NDF:5.3/6

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 27.820+/-1666.900 $\chi^2$/NDF:2.4/5

Left: 1587.743+/-1112.997 $\chi^2$/NDF: 9.2/12

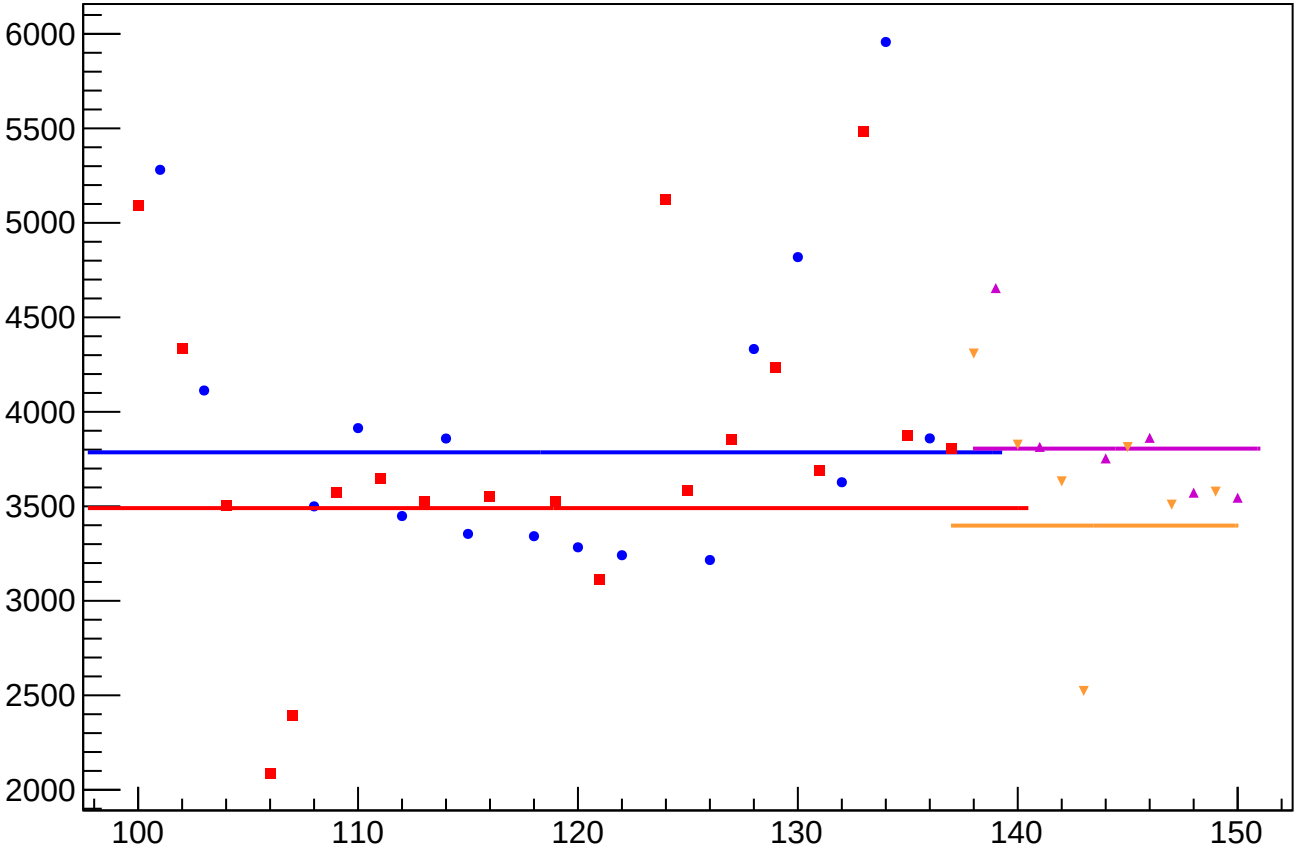
Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -741.716+/-1086.051 $\chi^2$/NDF:20.3/21

Out: 1150.074+/-996.239 $\chi^2$/NDF:19.2/25

All: 285.622+/-734.149 $\chi^2$/NDF: 41.2/47

# asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3398.087+/-1.057 $\chi^2$/NDF:314083.3/6

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3805.447+/-1.179 $\chi^2$/NDF:73749.7/5

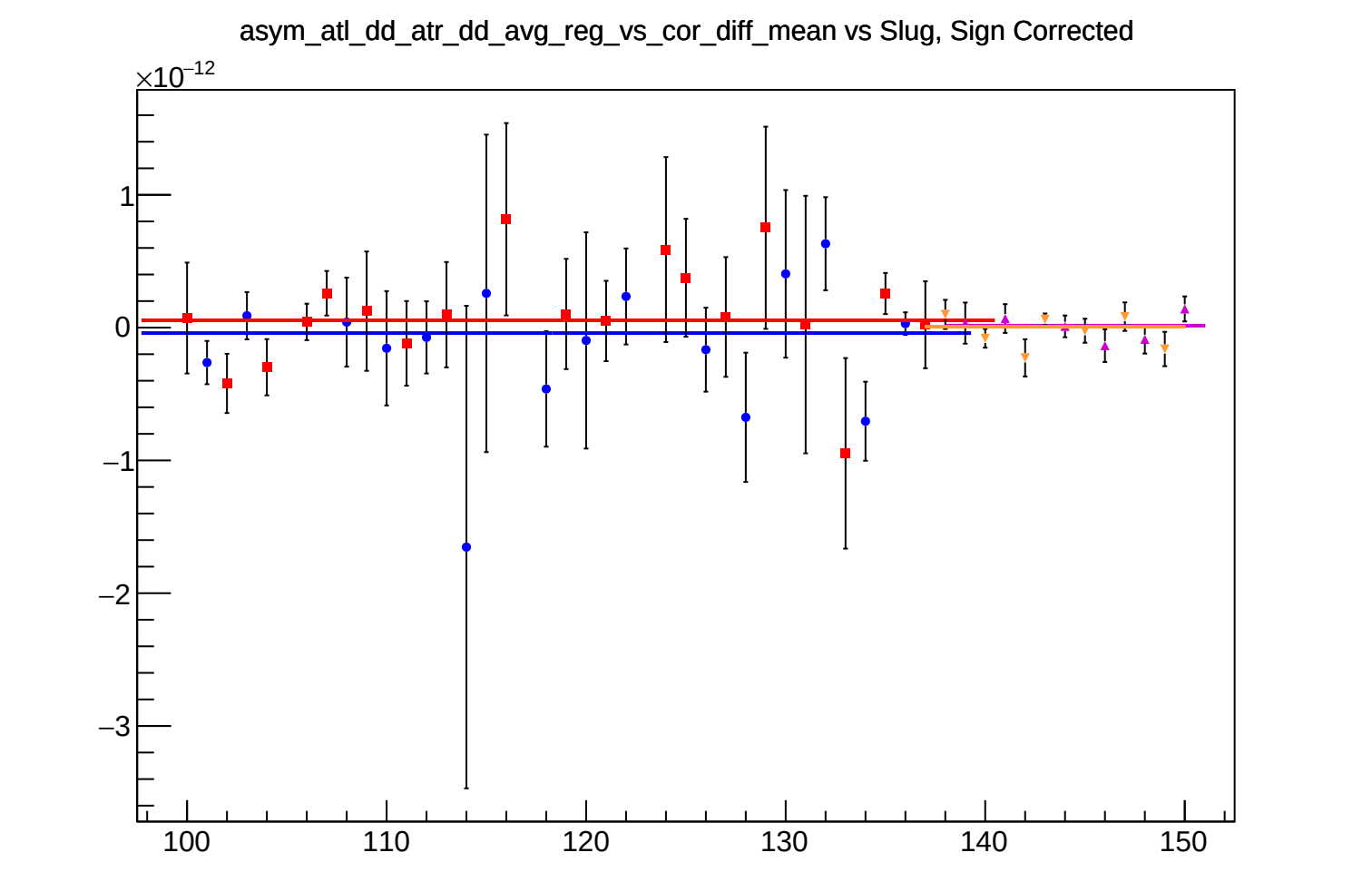
Left: 3579.700+/-0.787 $\chi^2$/NDF: 454025.7/12

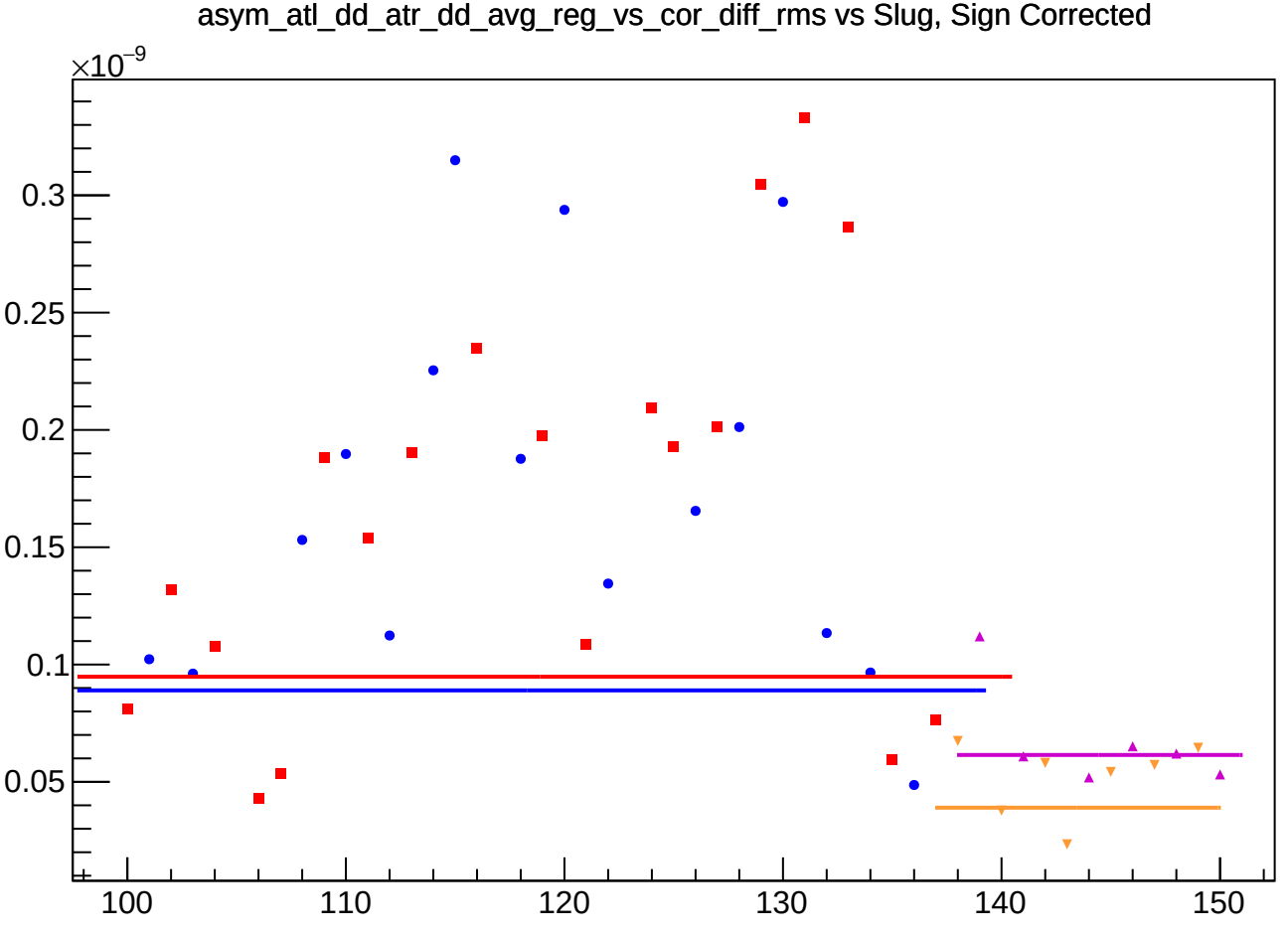
Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3794.125+/-0.768 $\chi^2$/NDF:456902.9/21

Out: 3450.158+/-0.699 $\chi^2$/NDF:905109.0/25

All: 3606.024+/-0.517 $\chi^2$/NDF: 1471720.6/47


asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 16.6/15
Left Out: 0.000+/-0.000 χ²/NDF:8.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 15.9/18
Left In: 0.000+/-0.000 χ²/NDF:4.5/5
Left: 0.000+/-0.000 χ²/NDF: 13.4/12
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: -0.000+/-0.000 χ²/NDF:21.7/21
Out: 0.000+/-0.000 χ²/NDF:25.3/25
All: 0.000+/-0.000 χ²/NDF: 47.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:618005.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:257986.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1244422.8/12

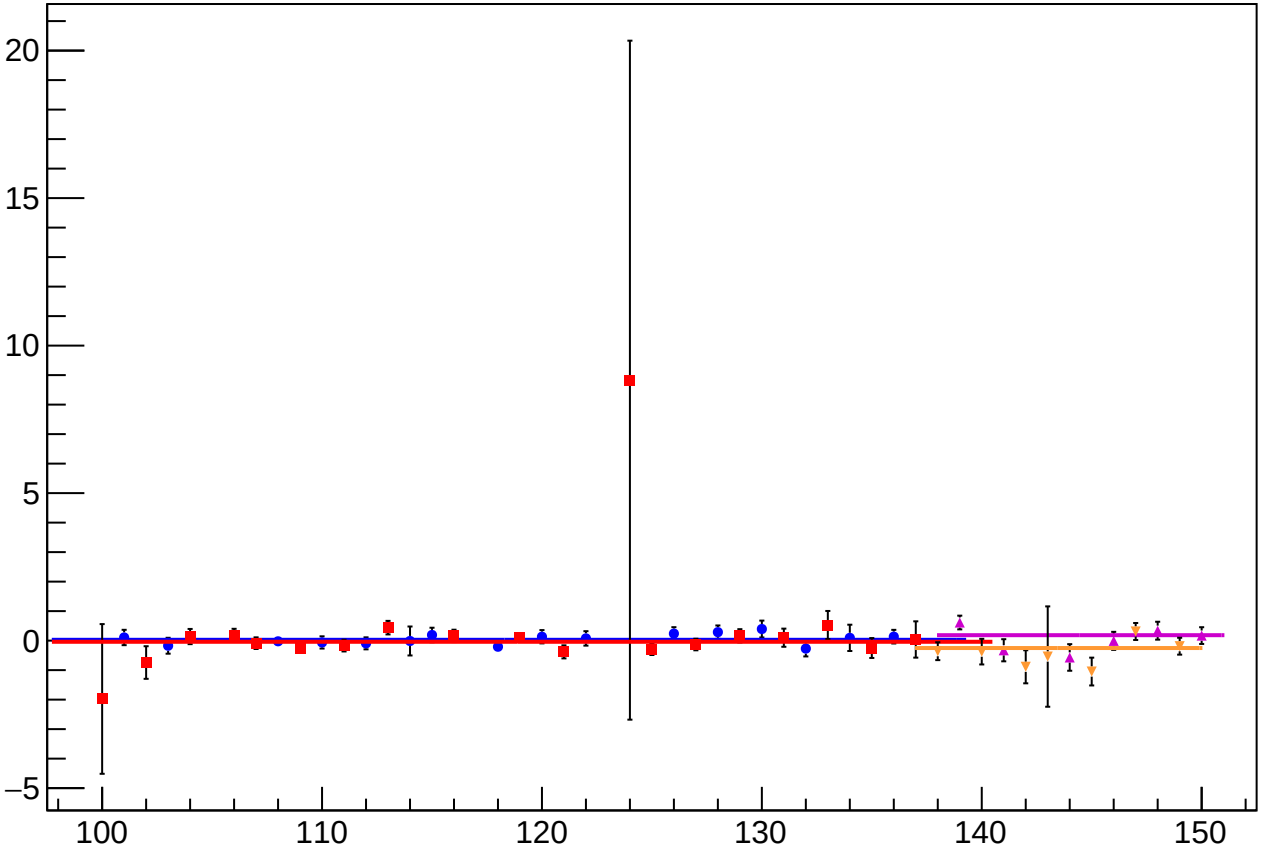
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2003084.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3602876.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6105919.4/47

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

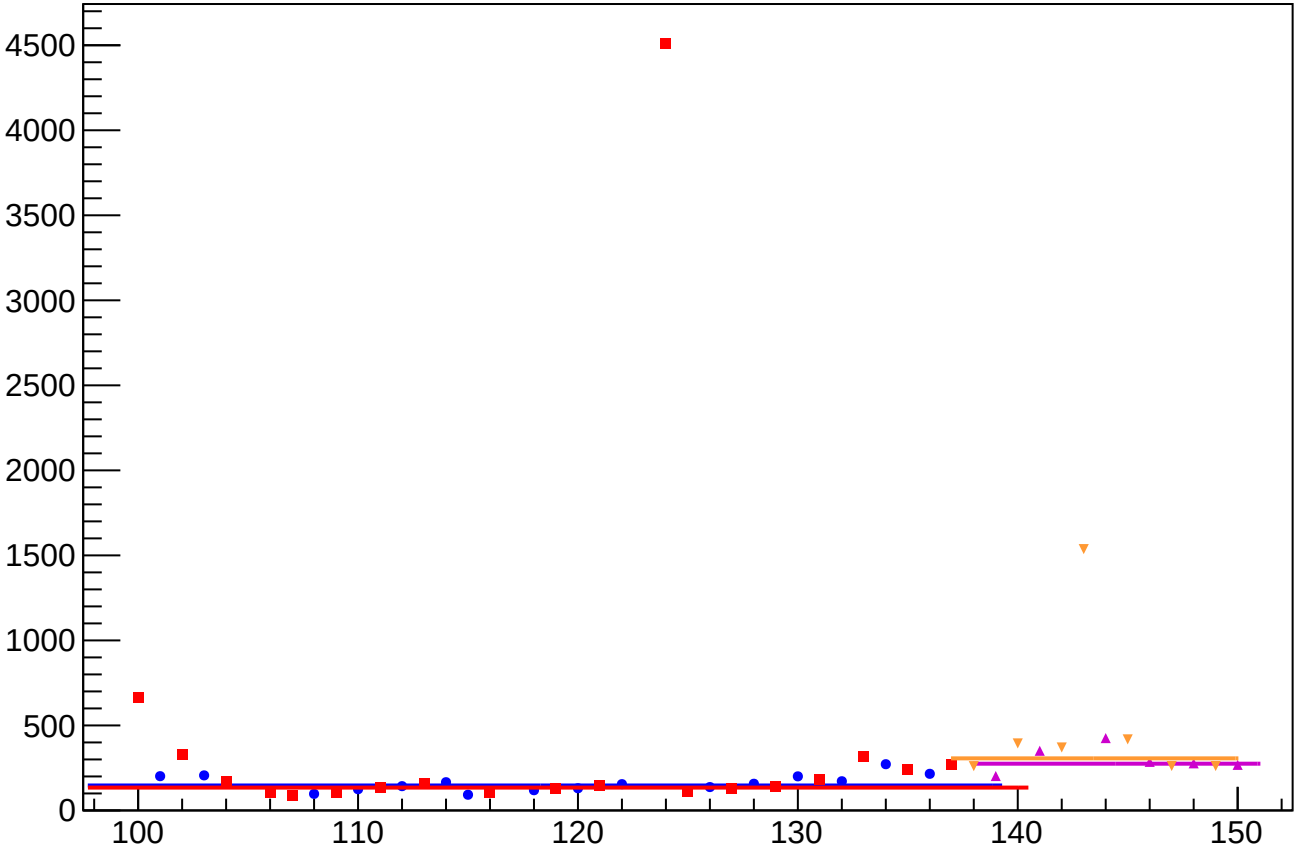
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

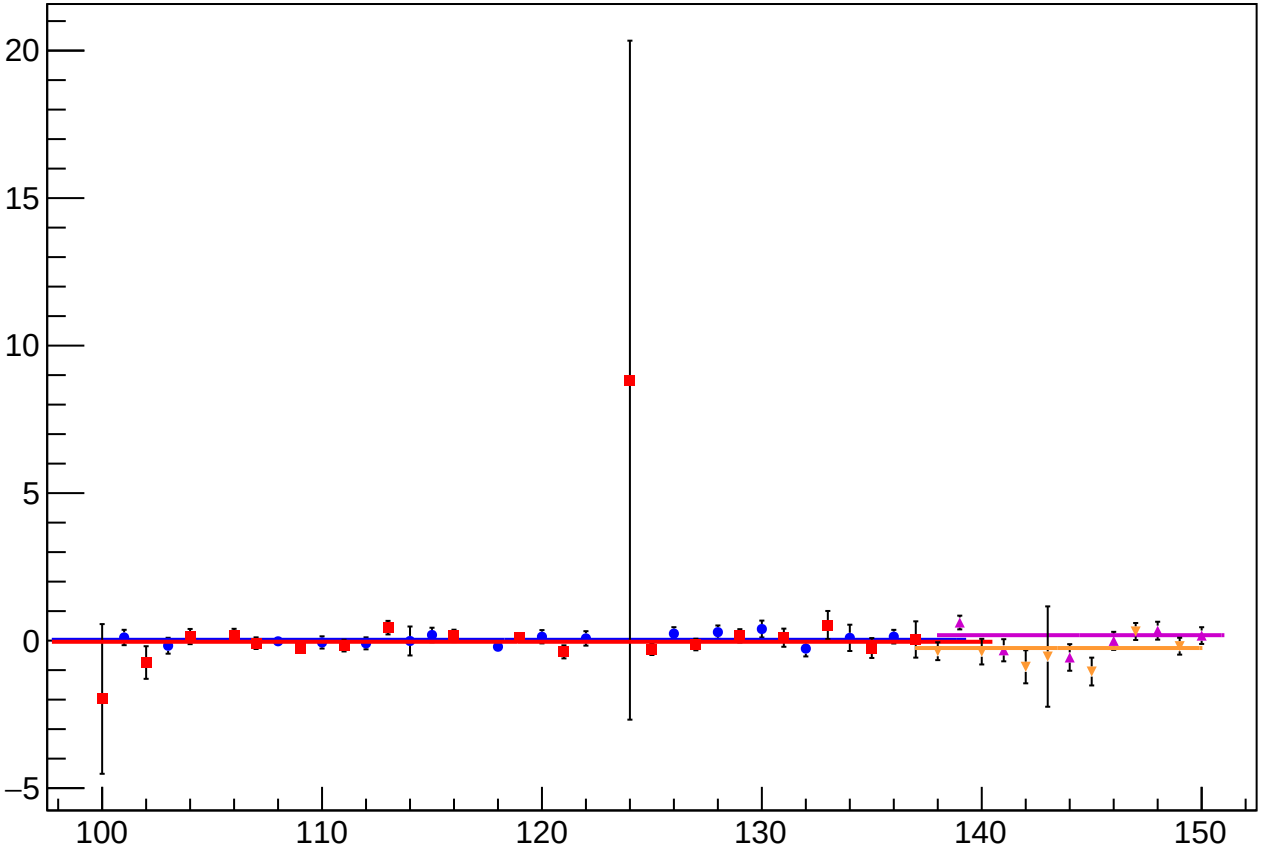
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

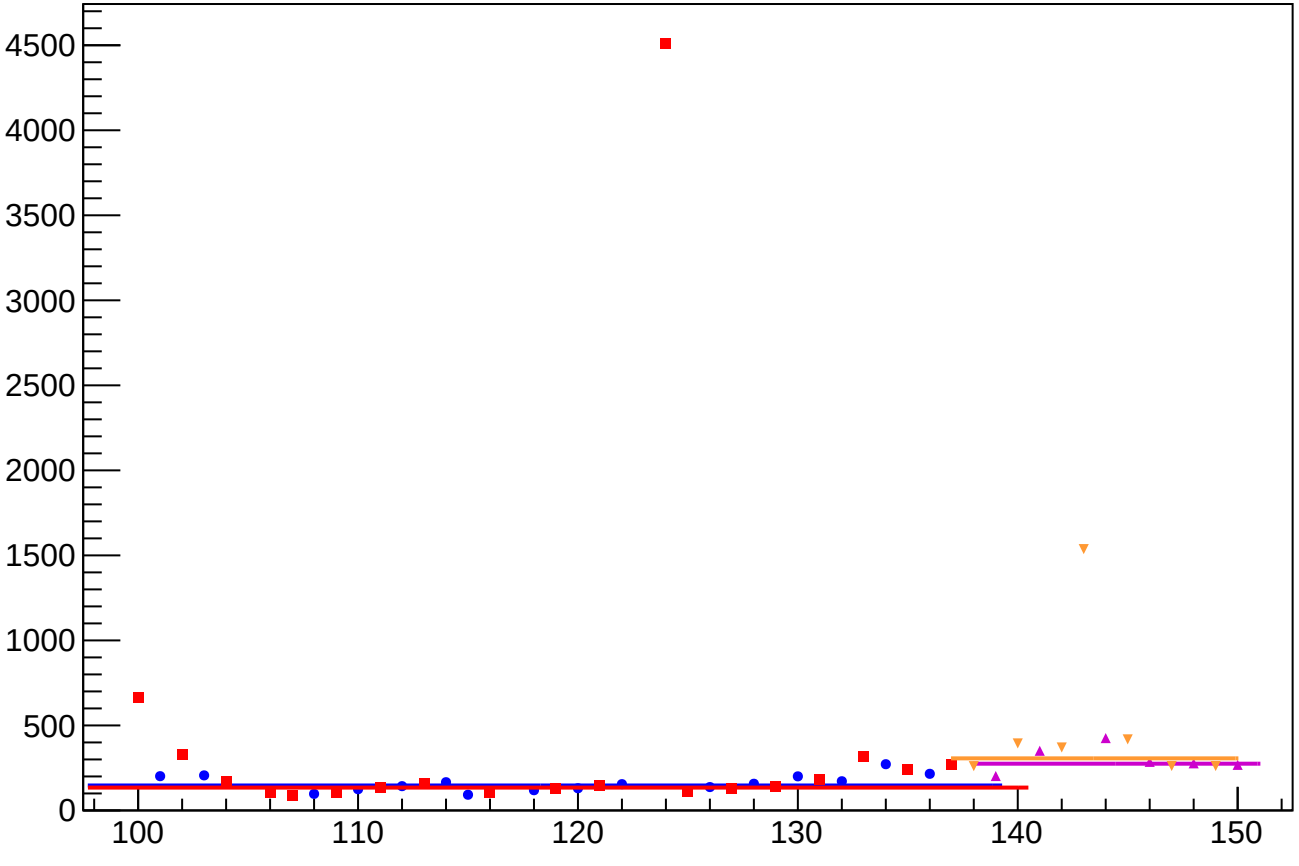
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

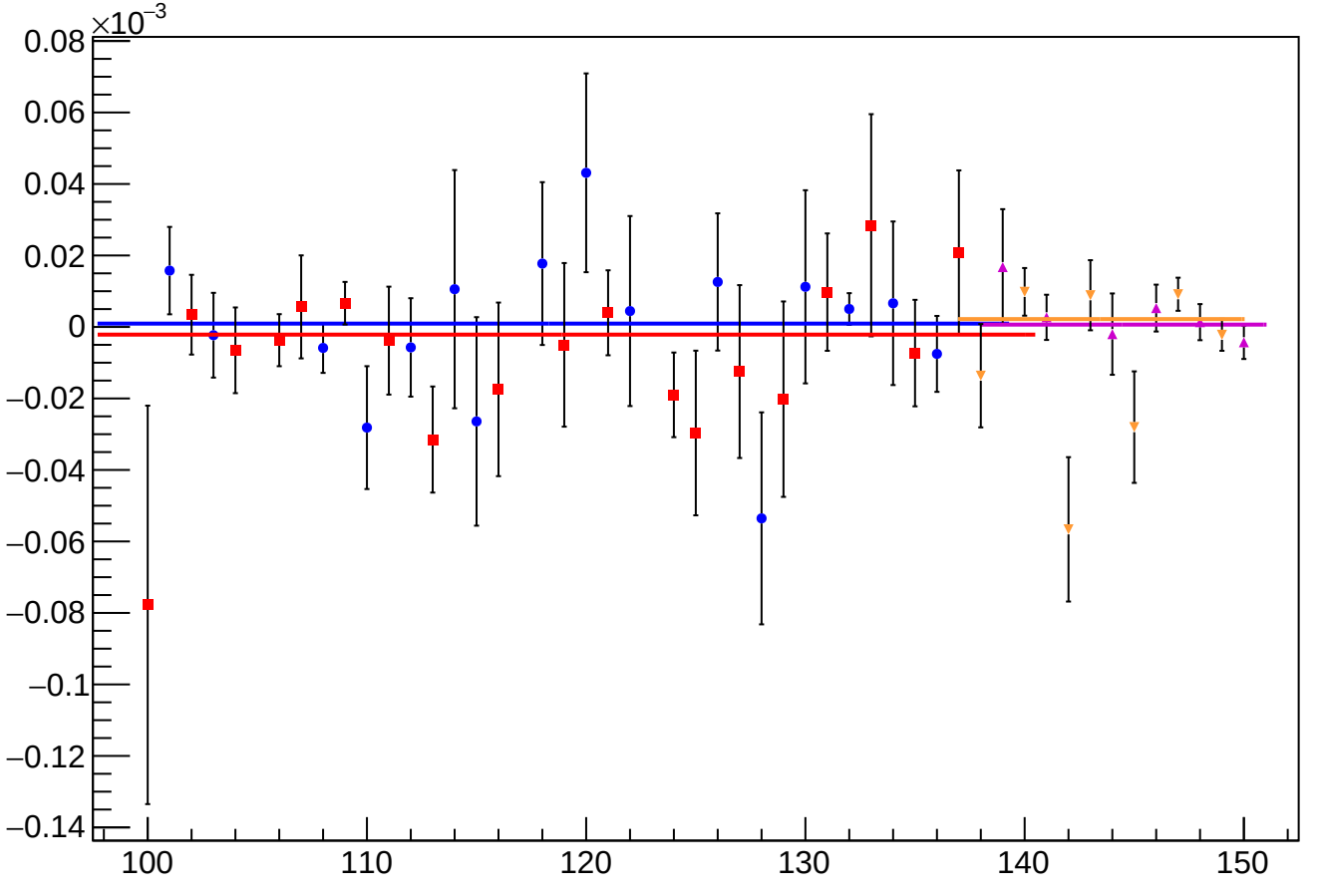
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.8/5

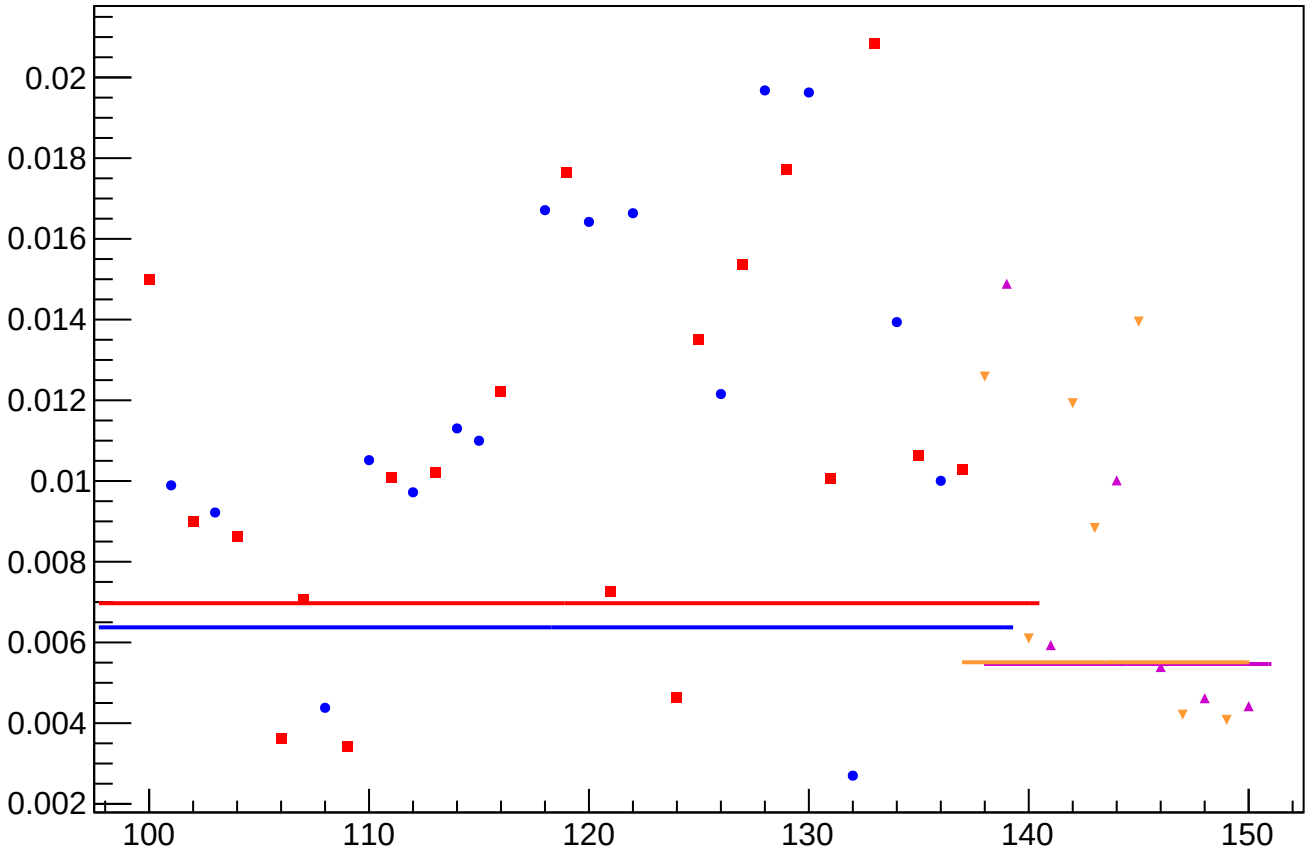
Left: 0.000+/-0.000 $\chi^2$/NDF: 21.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:35.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.3/47




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1875056.5/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1164361.1/5

Left: 0.005+/-0.000 $\chi^2$/NDF: 3039685.8/12

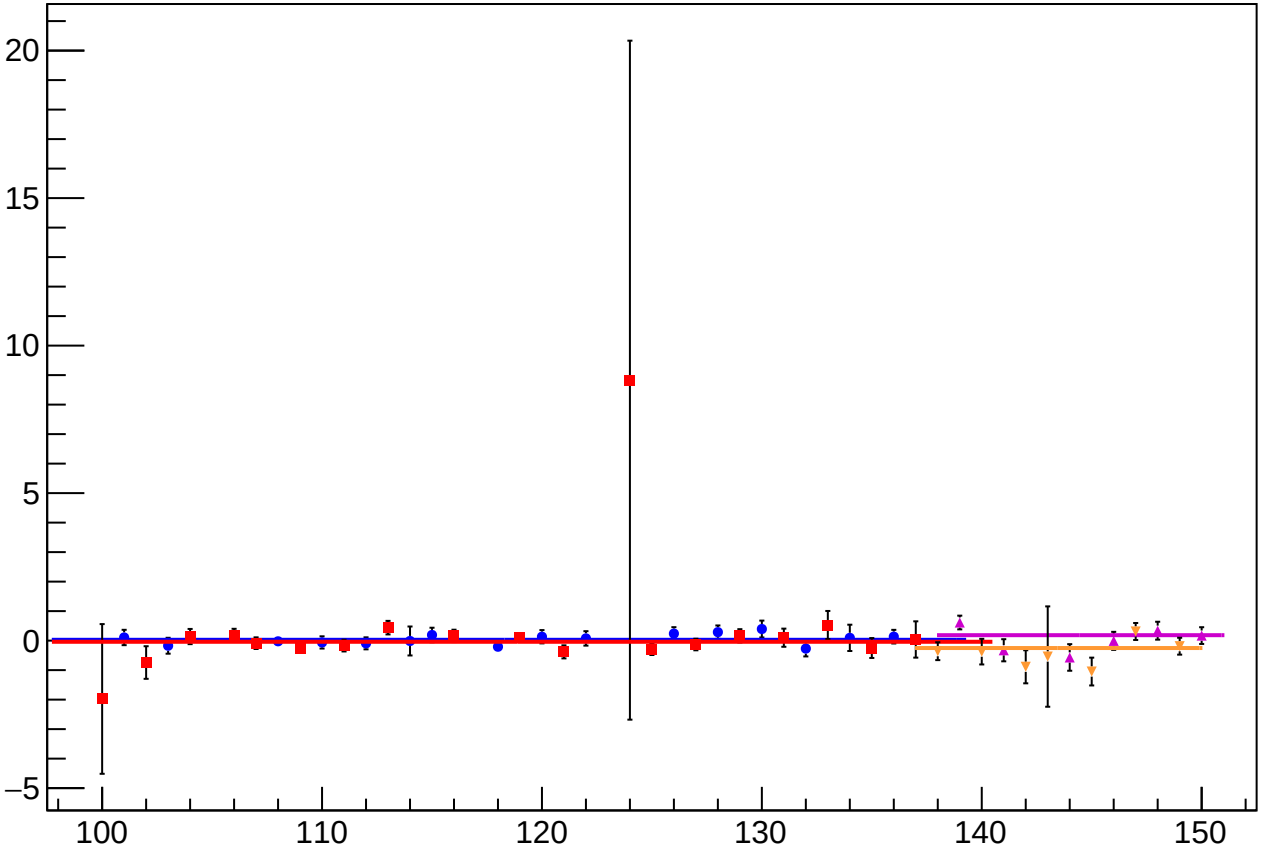
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:5910819.3/21

Out: 0.006+/-0.000 $\chi^2$/NDF:5549528.4/25

All: 0.006+/-0.000 $\chi^2$/NDF: 11480300.2/47

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

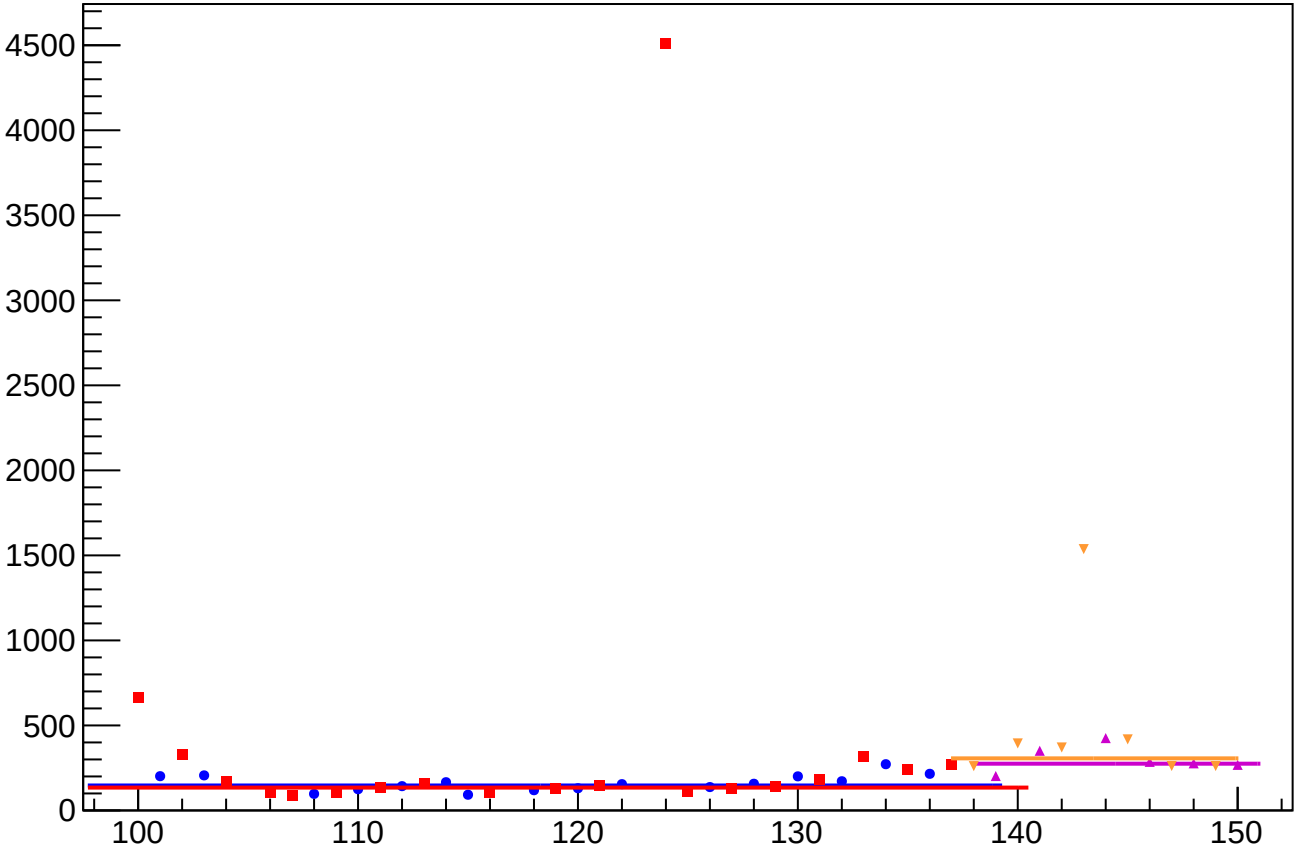
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

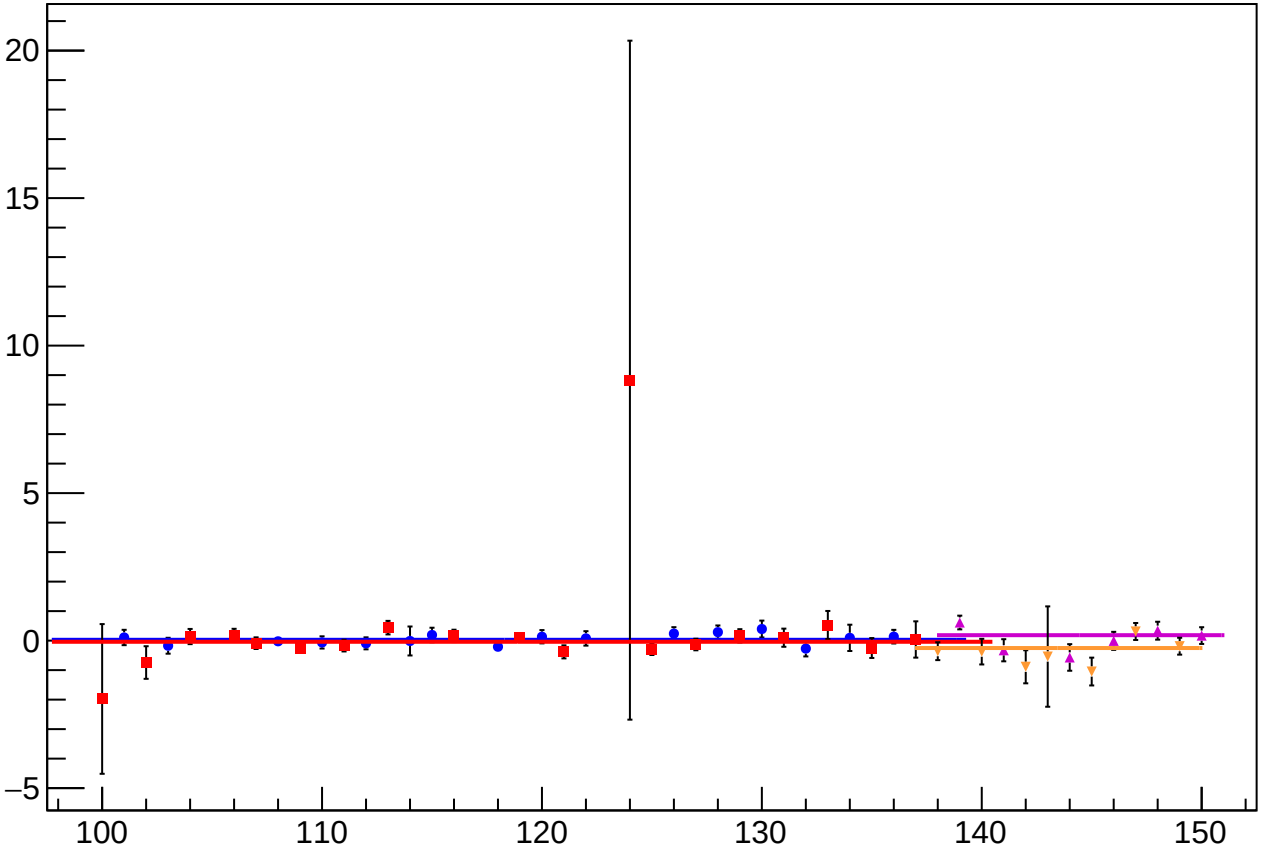
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

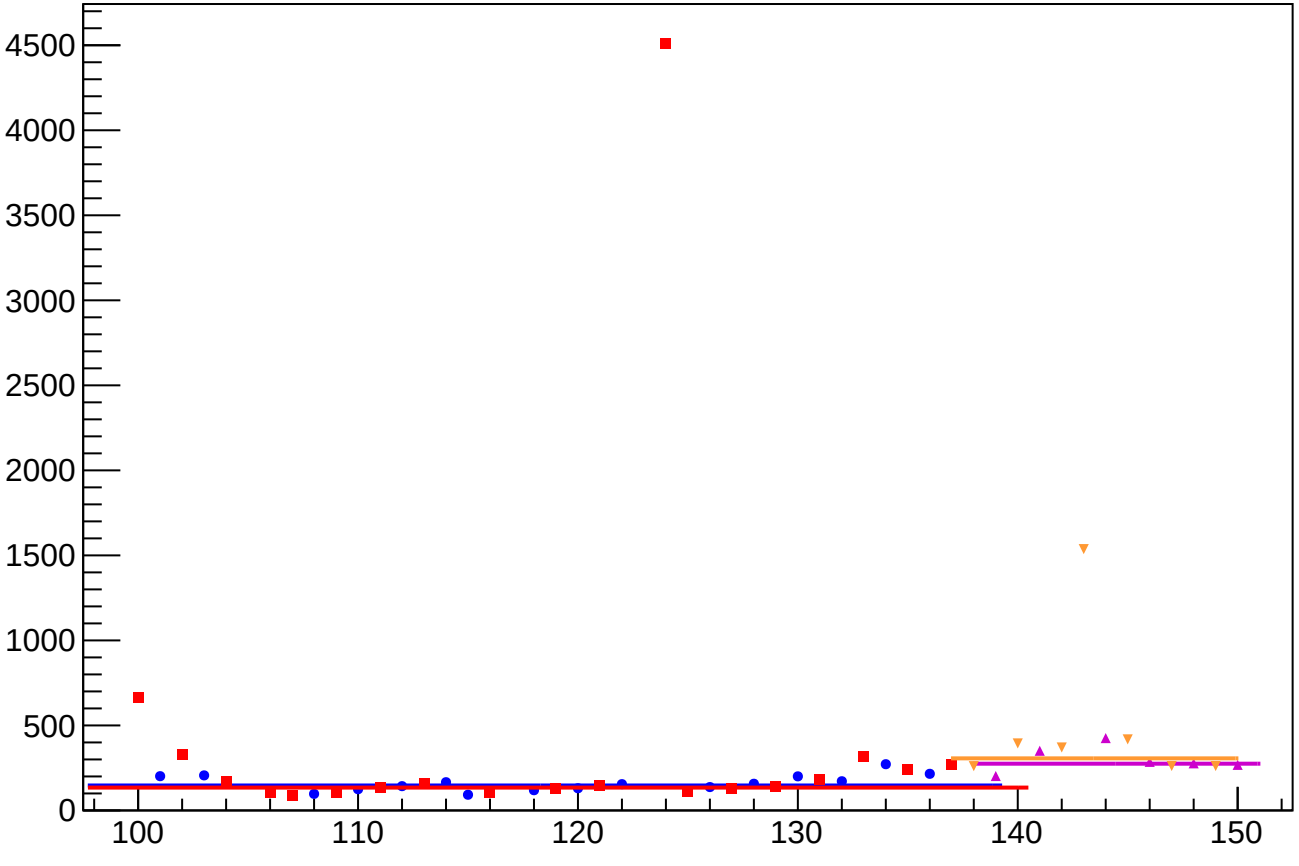
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

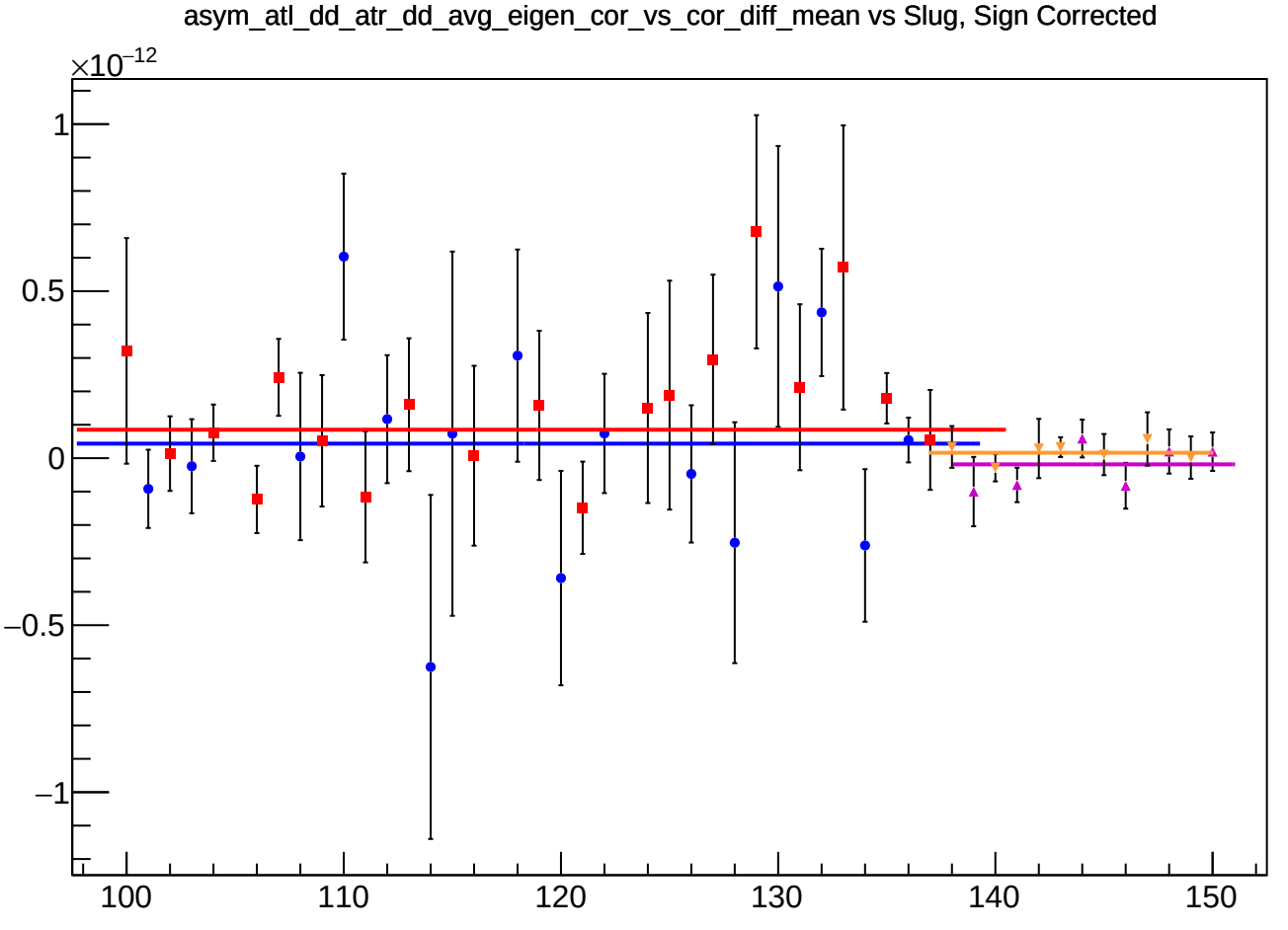
Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.6/5

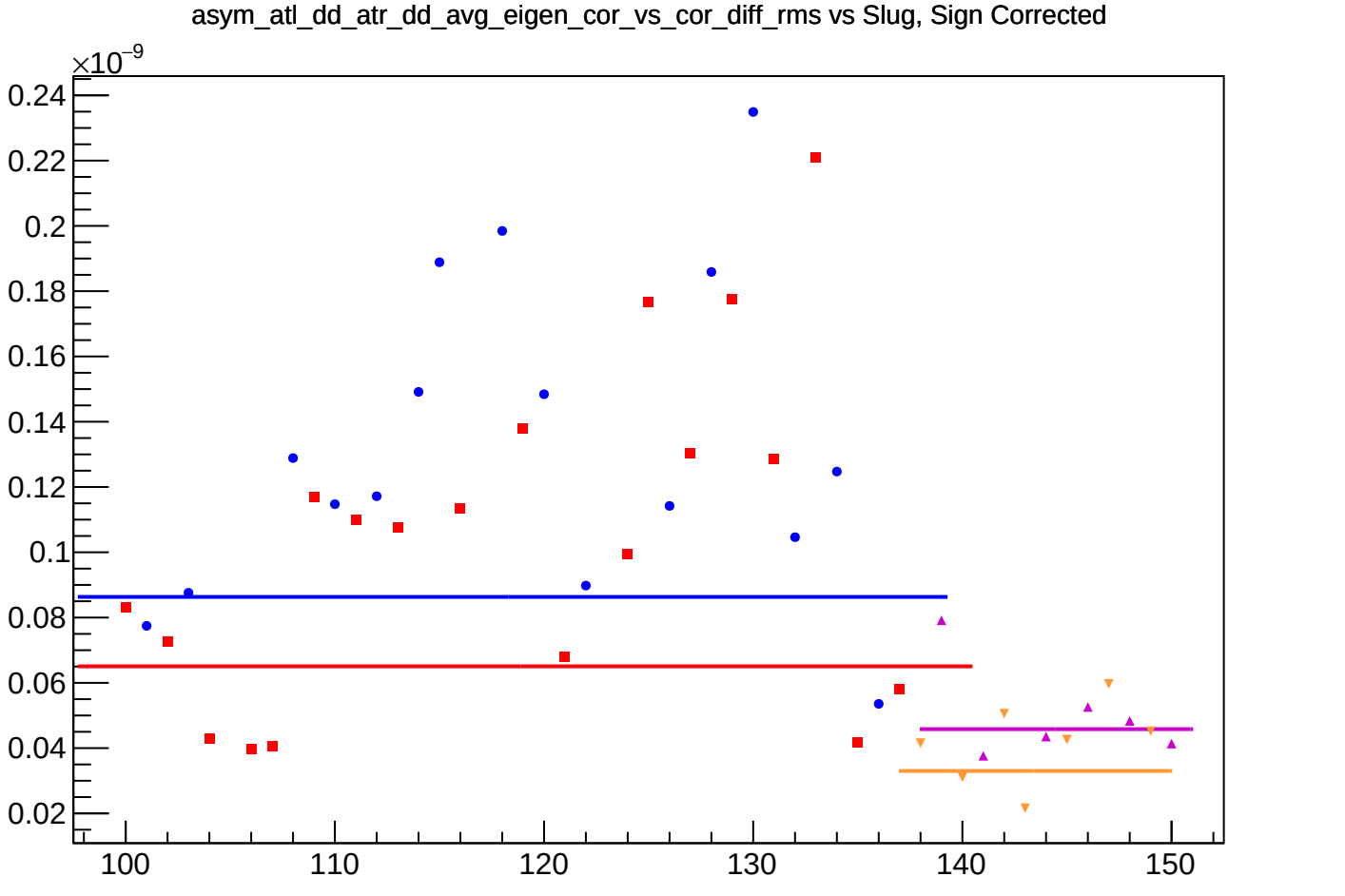
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.7/12

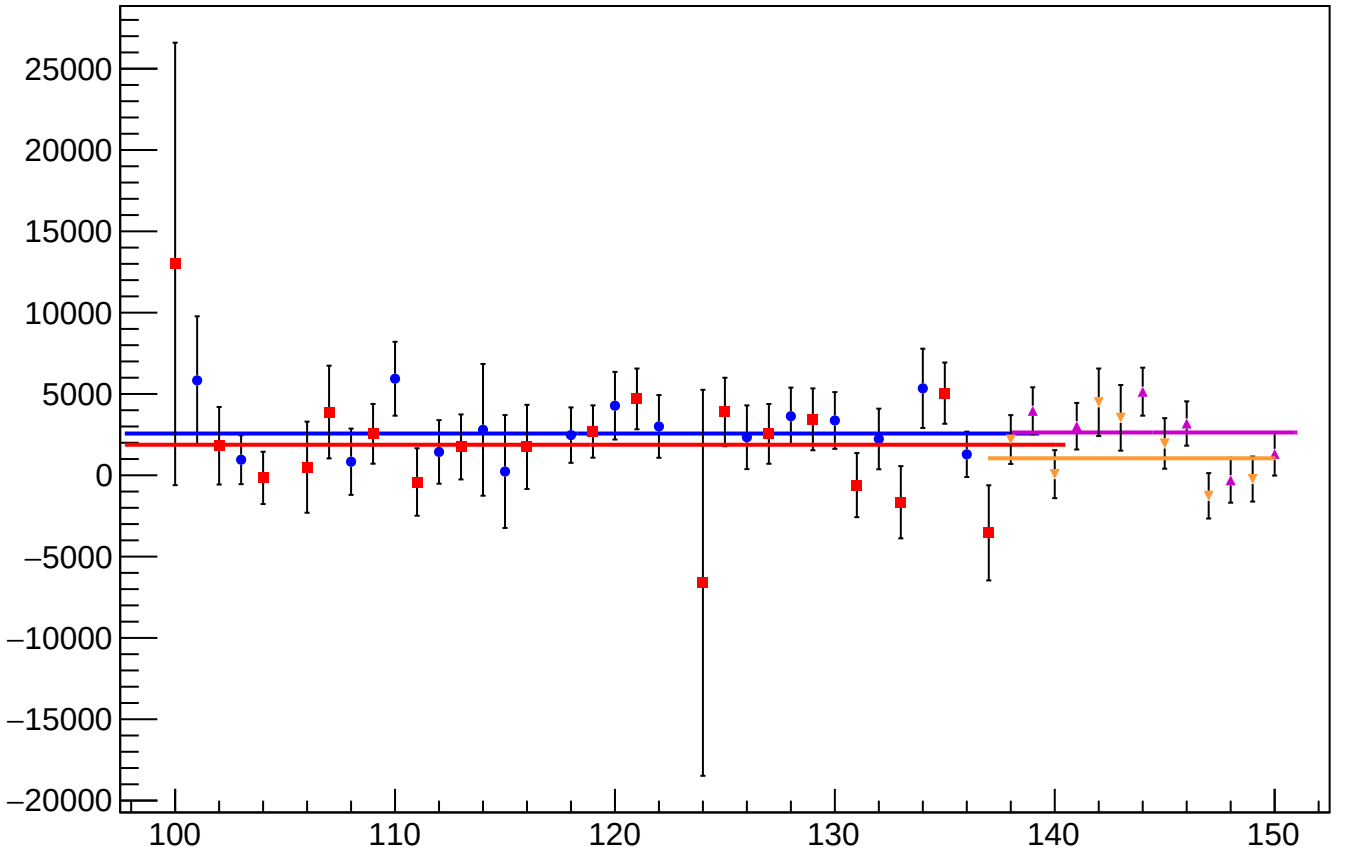
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 50.9/47


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1565662.7/15
Left Out: 0.000+/-0.000 χ²/NDF:762500.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 2158861.4/18
Left In: 0.000+/-0.000 χ²/NDF:294185.6/5
Left: 0.000+/-0.000 χ²/NDF: 1379773.8/12
Right: 0.000+/-0.000 χ²/NDF: 4026528.8/34
In: 0.000+/-0.000 χ²/NDF:3181917.9/21
Out: 0.000+/-0.000 χ²/NDF:4262877.3/25
All: 0.000+/-0.000 χ²/NDF: 8120981.6/47




Right In: 2567.460+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1045.773+/-594.385 $\chi^2$/NDF:9.2/6

Right Out: 1878.030+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2632.396+/-572.722 $\chi^2$/NDF:9.5/5

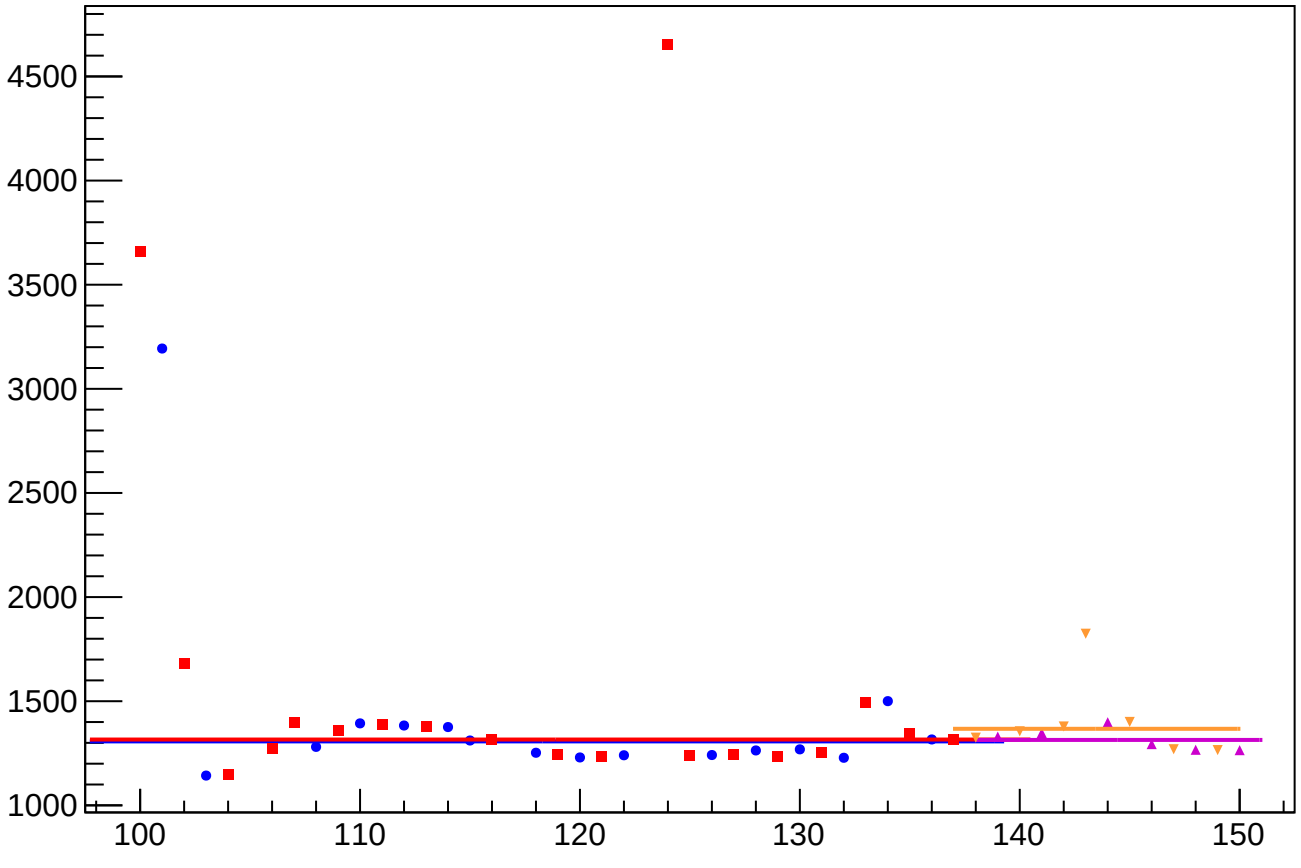
Left: 1868.523+/-412.421 $\chi^2$/NDF: 22.4/12

Right: 2222.296+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2595.249+/-374.663 $\chi^2$/NDF:18.5/21

Out: 1537.430+/-380.243 $\chi^2$/NDF:29.9/25

All: 2074.158+/-266.878 $\chi^2$/NDF: 52.4/47




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516249.0/15

Left Out: 1367.518+/-0.420 $\chi^2$/NDF:125768.0/6

Right Out: 1315.999+/-0.349 $\chi^2$/NDF: 326420.0/18

Left In: 1314.073+/-0.405 $\chi^2$/NDF:13445.9/5

Left: 1339.804+/-0.292 $\chi^2$/NDF: 147598.9/12

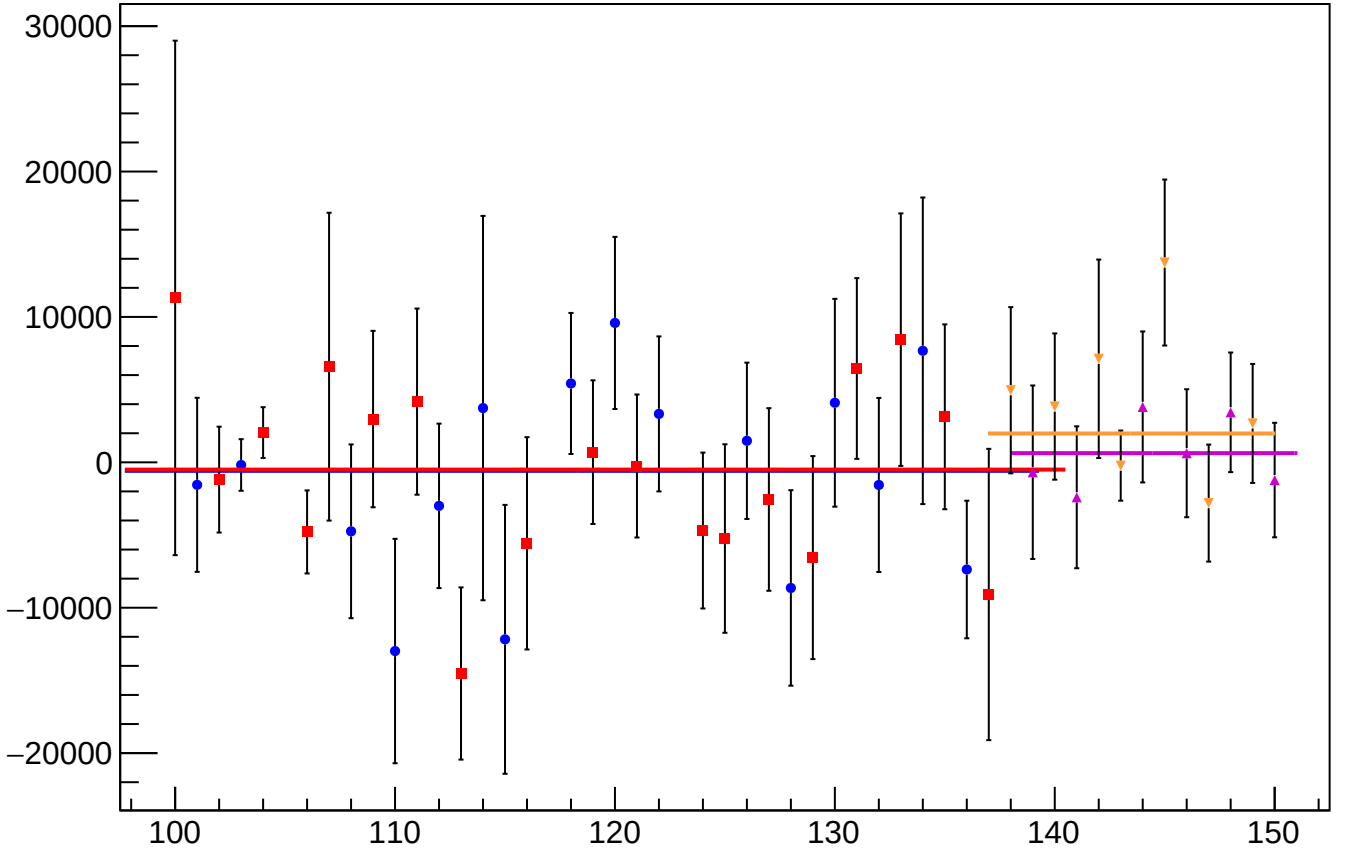
Right: 1311.551+/-0.247 $\chi^2$/NDF: 842995.4/34

In: 1310.066+/-0.265 $\chi^2$/NDF:529866.1/21

Out: 1337.016+/-0.268 $\chi^2$/NDF:461084.0/25

All: 1323.363+/-0.189 $\chi^2$/NDF: 996055.8/47

asym_atl_avg_atr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -581.790+/-1192.862 $\chi^2$/NDF: 14.7/15

Left Out: 1984.768+/-1550.762 $\chi^2$/NDF:7.5/6

Right Out: -500.098+/-1055.434 $\chi^2$/NDF: 17.7/18

Left In: 631.700+/-1882.143 $\chi^2$/NDF:1.5/5

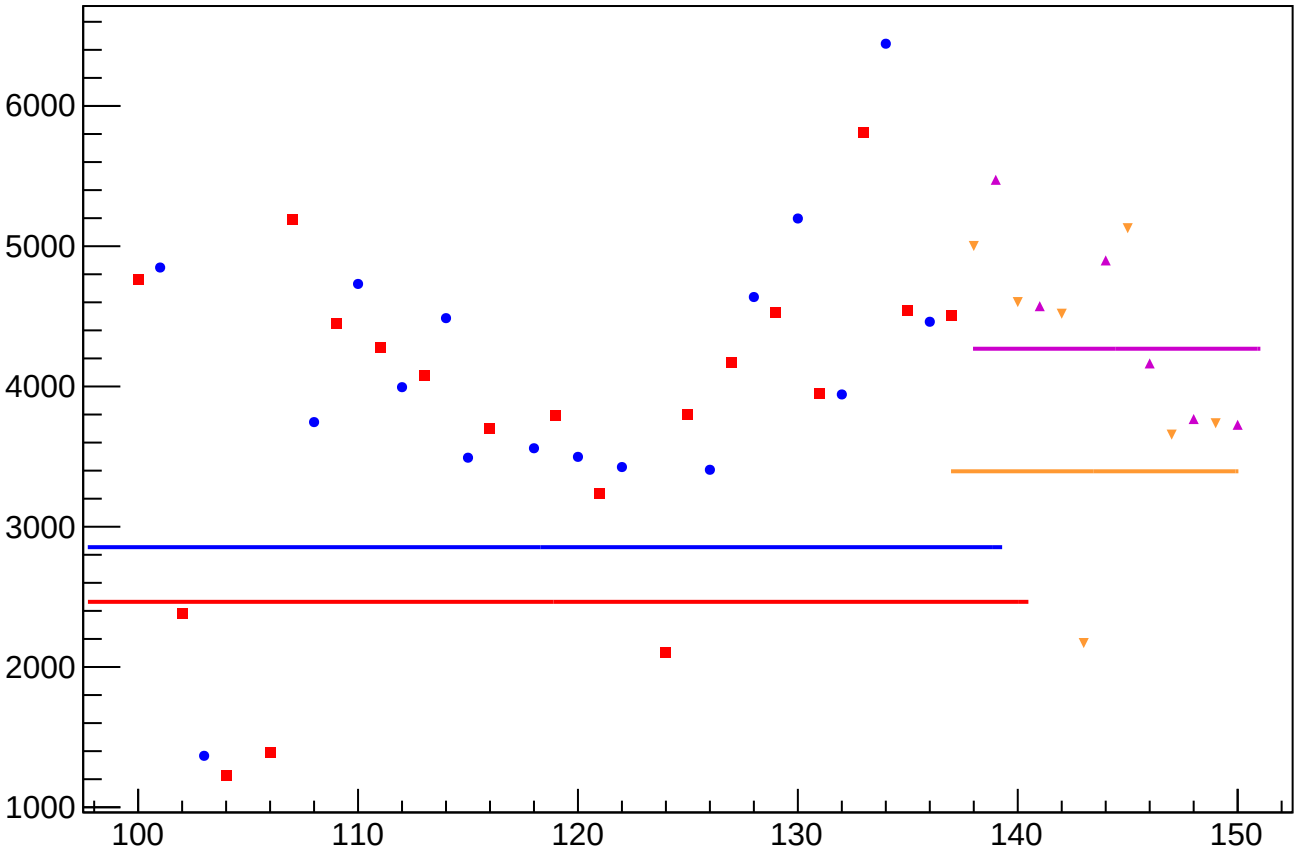
Left: 1437.641+/-1196.842 $\chi^2$/NDF: 9.3/12

Right: -535.969+/-790.447 $\chi^2$/NDF: 32.4/34

In: -234.043+/-1007.550 $\chi^2$/NDF:16.5/21

Out: 286.531+/-872.527 $\chi^2$/NDF:27.0/25

All: 63.439+/-659.580 $\chi^2$/NDF: 43.6/47




Right In: 2854.300+/-0.843 $\chi^2$/NDF: 2904822.2/15

Left Out: 3395.258+/-1.097 $\chi^2$/NDF:1050043.8/6

Right Out: 2464.593+/-0.746 $\chi^2$/NDF: 3355947.0/18

Left In: 4269.082+/-1.331 $\chi^2$/NDF:187363.1/5

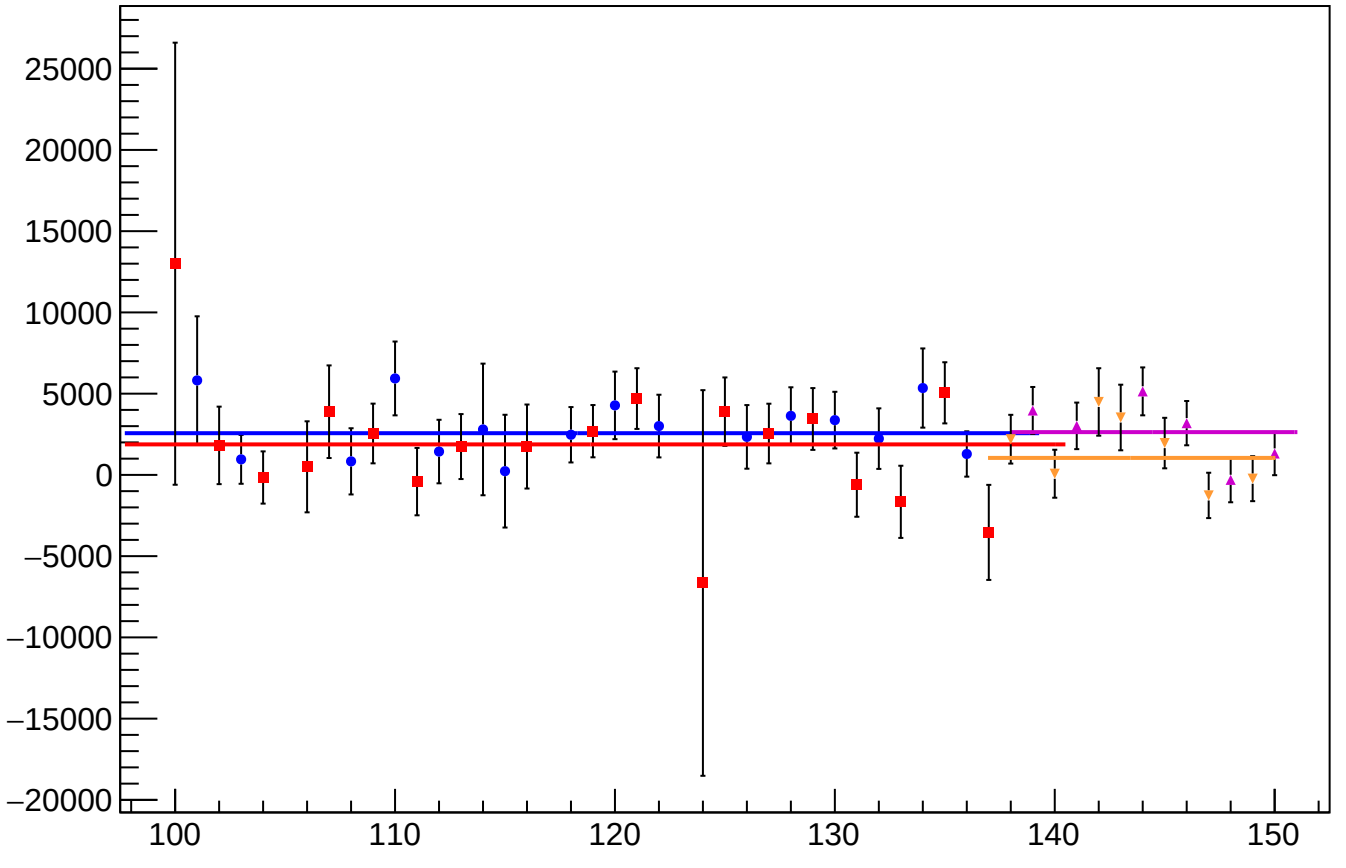
Left: 3748.598+/-0.846 $\chi^2$/NDF: 1494183.8/12

Right: 2635.714+/-0.559 $\chi^2$/NDF: 6380500.9/34

In: 3259.731+/-0.712 $\chi^2$/NDF:3898410.6/21

Out: 2759.212+/-0.617 $\chi^2$/NDF:4898281.3/25

All: 2973.709+/-0.466 $\chi^2$/NDF: 9078735.6/47




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1045.704+/-594.385 $\chi^2$/NDF:9.2/6

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2632.600+/-572.722 $\chi^2$/NDF:9.5/5

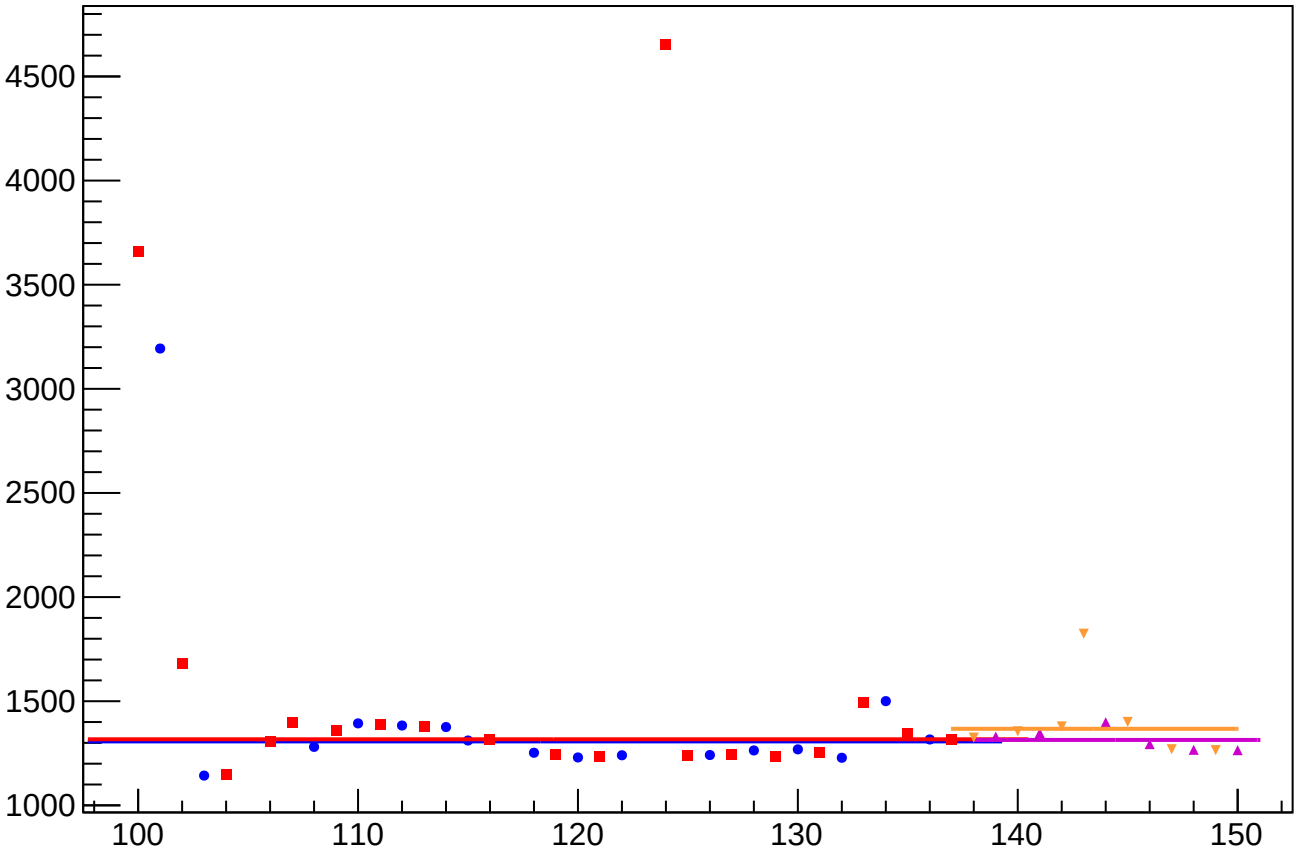
Left: 1868.595+/-412.421 $\chi^2$/NDF: 22.4/12

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2595.176+/-374.663 $\chi^2$/NDF:18.5/21

Out: 1537.250+/-380.243 $\chi^2$/NDF:29.9/25

All: 2074.032+/-266.878 $\chi^2$/NDF: 52.4/47




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1367.518+/-0.420 $\chi^2$/NDF:125768.0/6

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1314.073+/-0.405 $\chi^2$/NDF:13445.9/5

Left: 1339.804+/-0.292 $\chi^2$/NDF: 147598.8/12

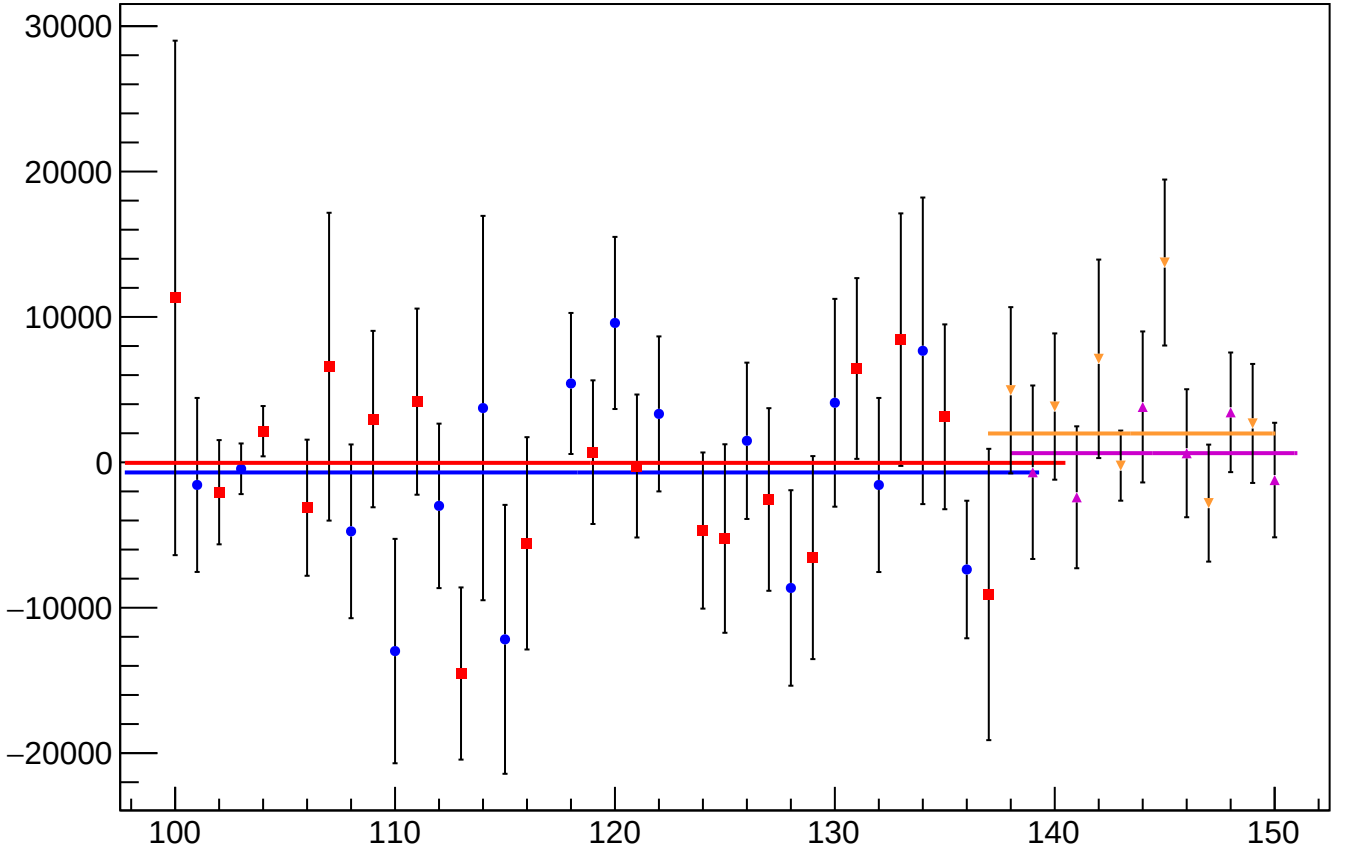
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1310.066+/-0.265 $\chi^2$/NDF:529867.6/21

Out: 1337.704+/-0.269 $\chi^2$/NDF:460199.5/25

All: 1323.696+/-0.189 $\chi^2$/NDF: 995434.4/47

asym_atl_avg_atr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -695.249+/-1182.433 $\chi^2$/NDF: 14.7/15

Left Out: 1984.716+/-1550.753 $\chi^2$/NDF:7.5/6

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 631.769+/-1882.142 $\chi^2$/NDF:1.5/5

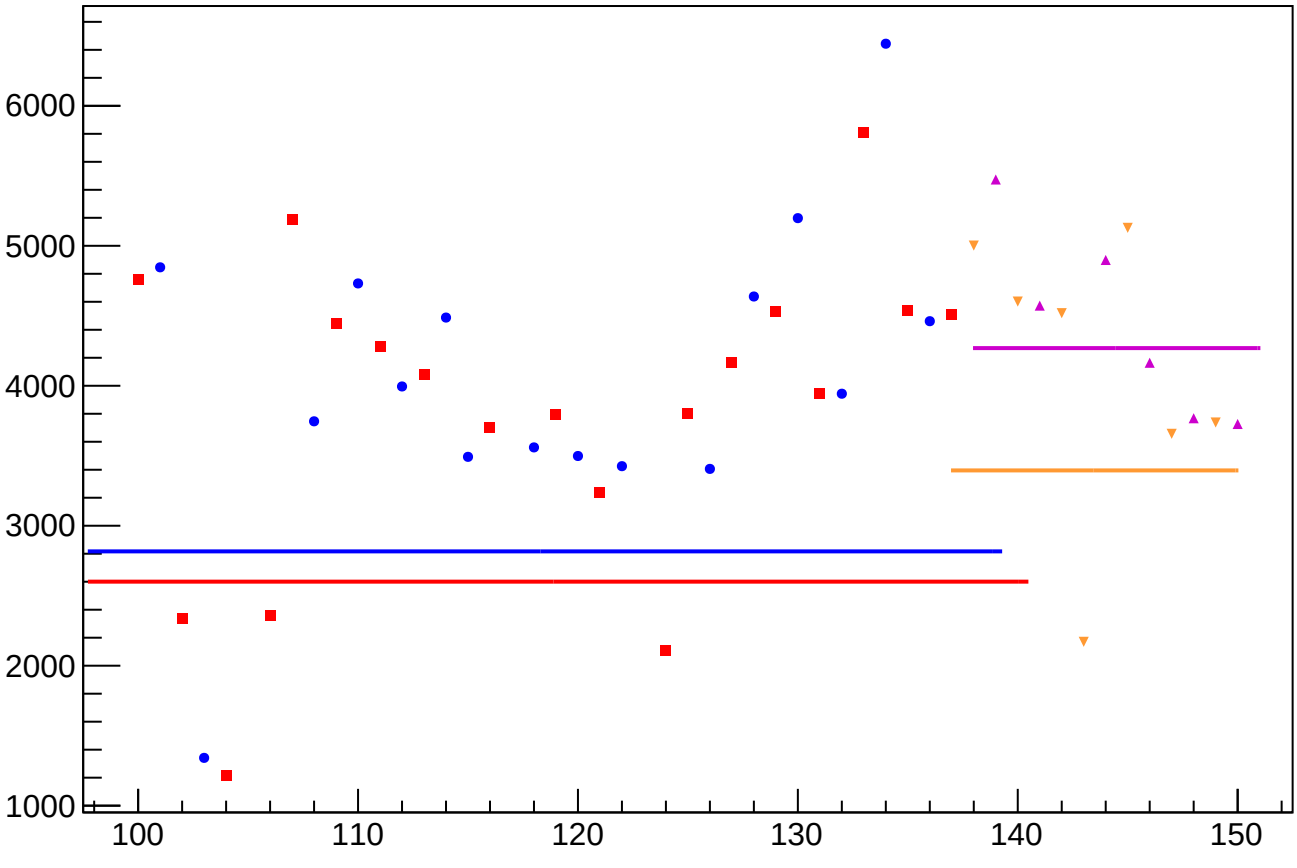
Left: 1437.642+/-1196.838 $\chi^2$/NDF: 9.3/12

Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -319.715+/-1001.241 $\chi^2$/NDF:16.5/21

Out: 638.854+/-896.230 $\chi^2$/NDF:24.6/25

All: 212.458+/-667.781 $\chi^2$/NDF: 41.6/47




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 3395.230+/-1.097 $\chi^2$/NDF:1050075.9/6

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4269.080+/-1.331 $\chi^2$/NDF:187363.8/5

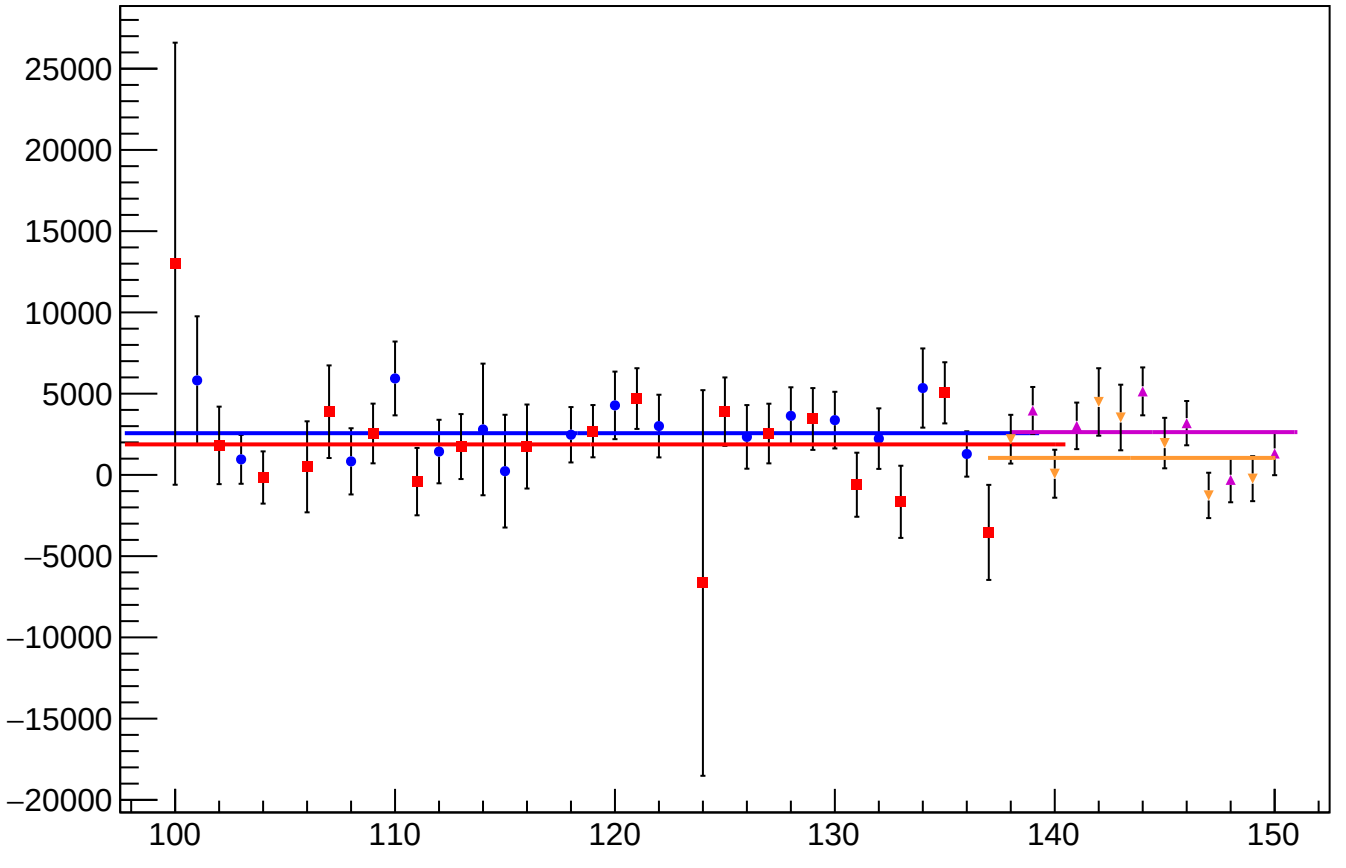
Left: 3748.578+/-0.846 $\chi^2$/NDF: 1494233.4/12

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3227.770+/-0.708 $\chi^2$/NDF:4048741.8/21

Out: 2865.961+/-0.634 $\chi^2$/NDF:4480654.6/25

All: 3026.903+/-0.472 $\chi^2$/NDF: 8674387.9/47




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1045.704+/-594.385 $\chi^2$/NDF:9.2/6

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2632.600+/-572.722 $\chi^2$/NDF:9.5/5

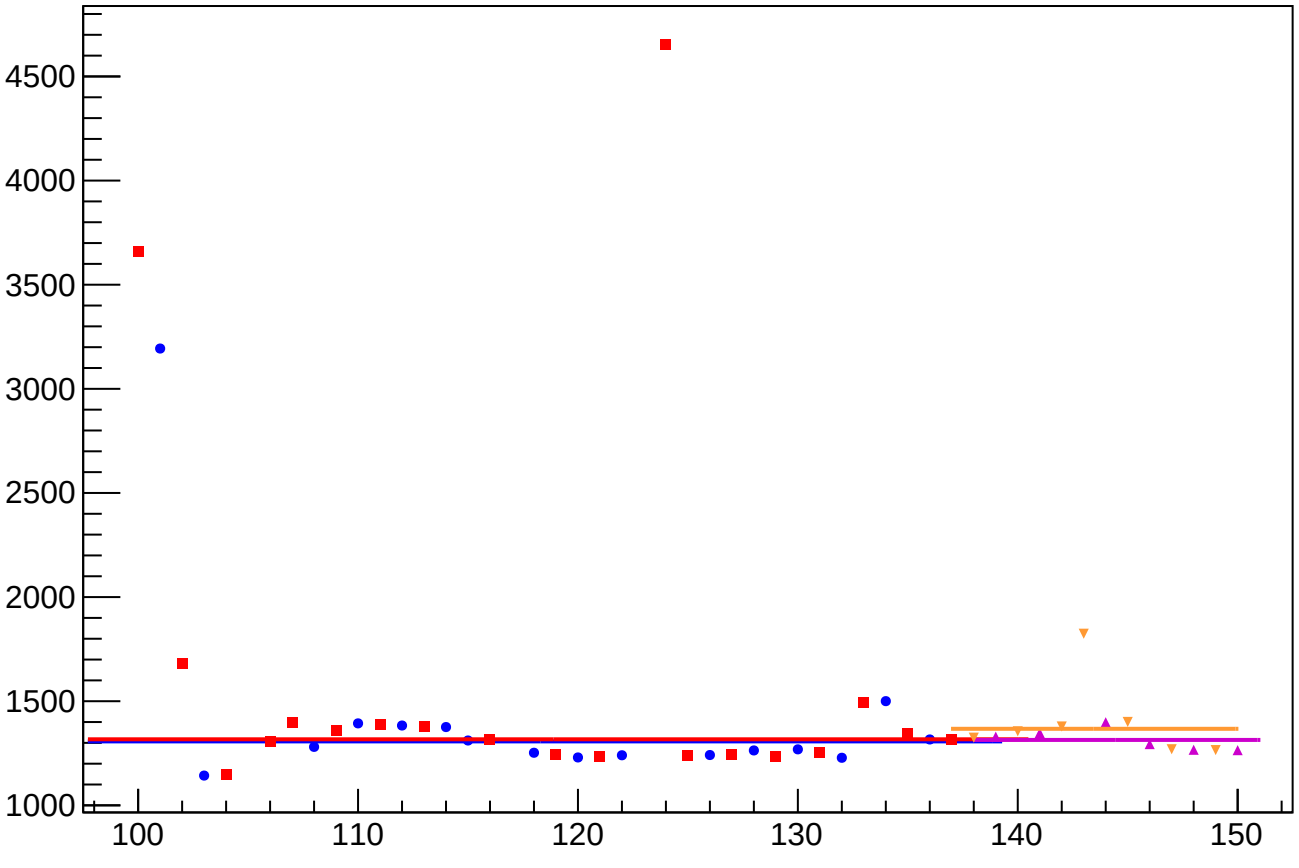
Left: 1868.595+/-412.421 $\chi^2$/NDF: 22.4/12

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2595.176+/-374.663 $\chi^2$/NDF:18.5/21

Out: 1537.250+/-380.243 $\chi^2$/NDF:29.9/25

All: 2074.032+/-266.878 $\chi^2$/NDF: 52.4/47




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1367.518+/-0.420 $\chi^2$/NDF:125768.0/6

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1314.073+/-0.405 $\chi^2$/NDF:13445.9/5

Left: 1339.804+/-0.292 $\chi^2$/NDF: 147598.8/12

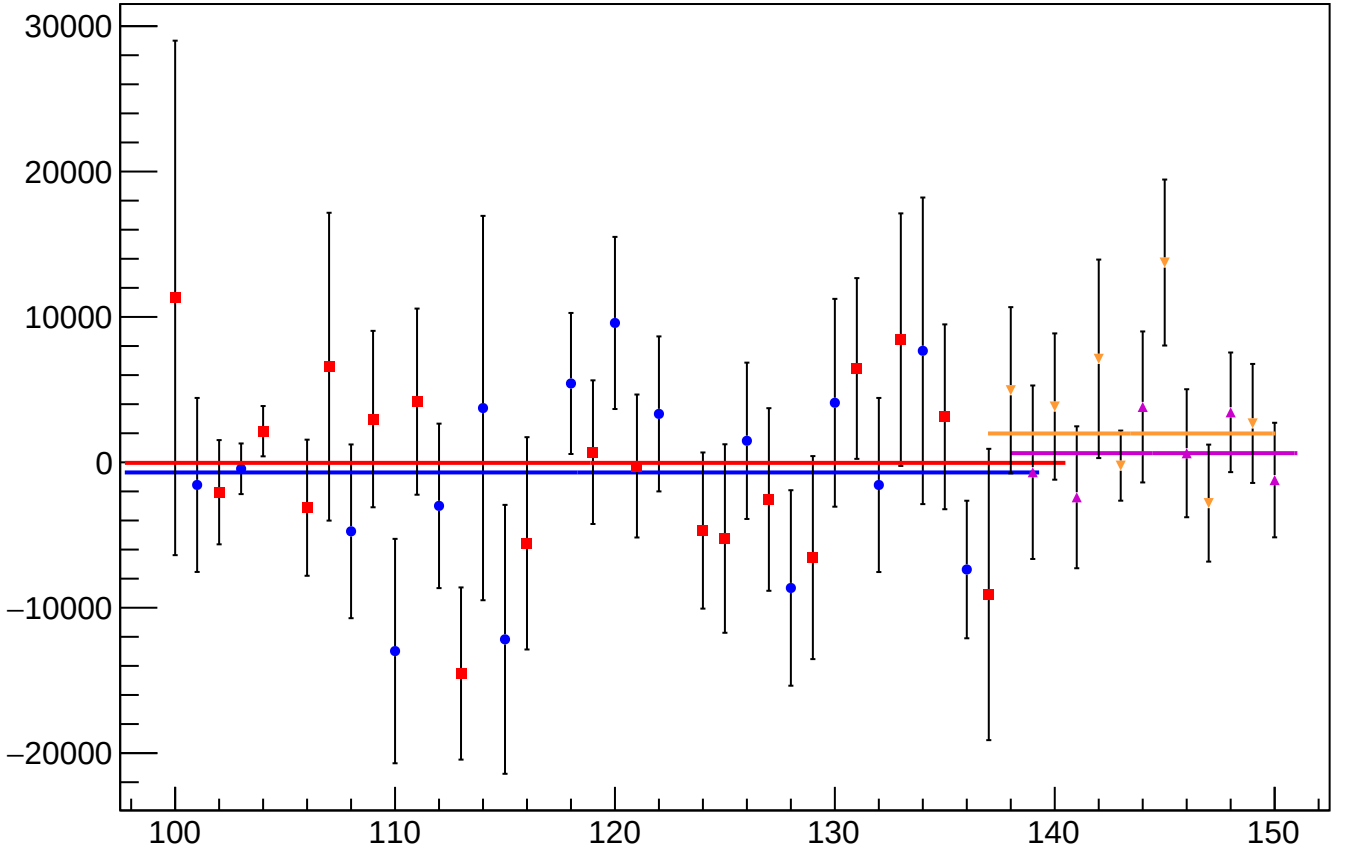
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1310.066+/-0.265 $\chi^2$/NDF:529867.6/21

Out: 1337.704+/-0.269 $\chi^2$/NDF:460199.5/25

All: 1323.696+/-0.189 $\chi^2$/NDF: 995434.4/47

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -695.249+/-1182.433 $\chi^2$/NDF: 14.7/15

Left Out: 1984.716+/-1550.753 $\chi^2$/NDF:7.5/6

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 631.769+/-1882.142 $\chi^2$/NDF:1.5/5

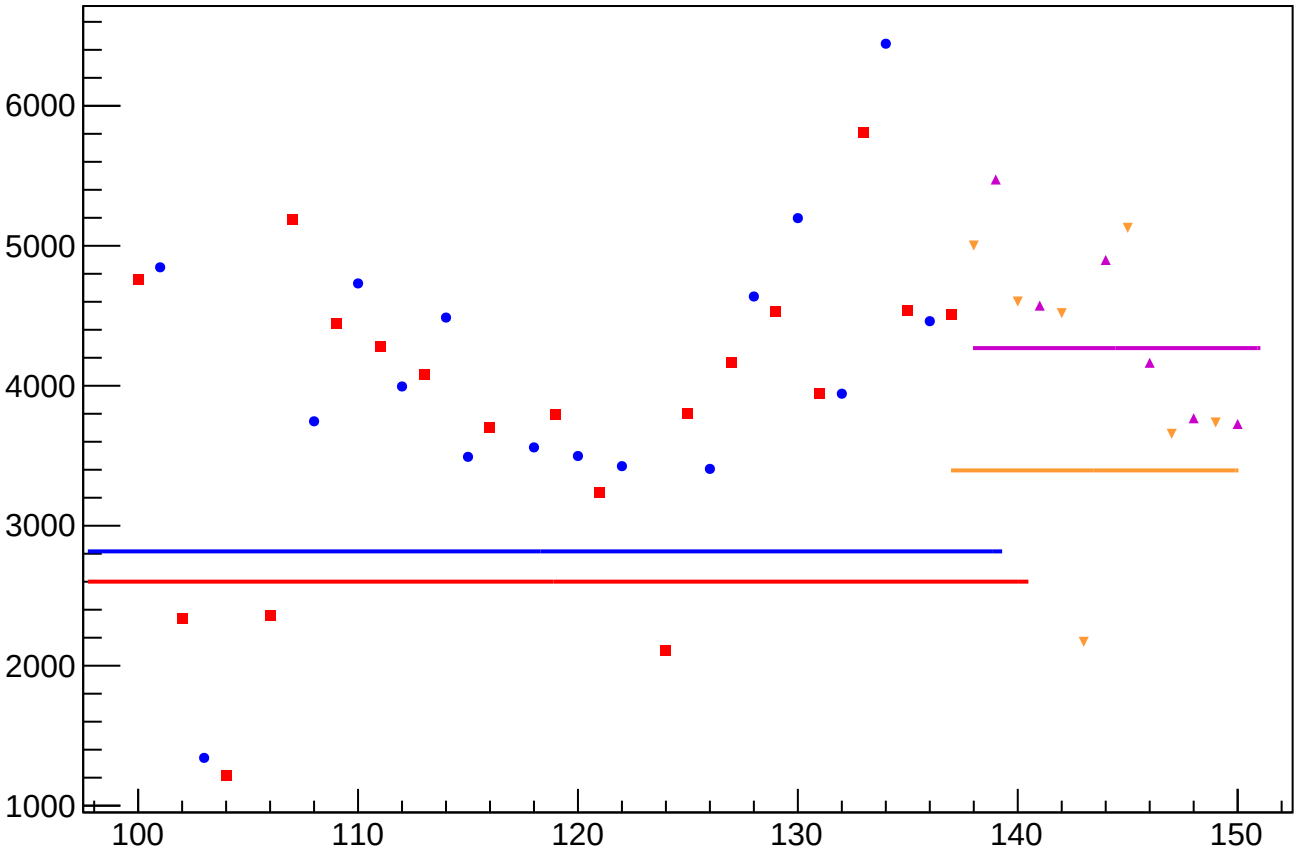
Left: 1437.642+/-1196.838 $\chi^2$/NDF: 9.3/12

Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -319.715+/-1001.241 $\chi^2$/NDF:16.5/21

Out: 638.854+/-896.230 $\chi^2$/NDF:24.6/25

All: 212.458+/-667.781 $\chi^2$/NDF: 41.6/47




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 3395.230+/-1.097 $\chi^2$/NDF:1050075.9/6

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4269.080+/-1.331 $\chi^2$/NDF:187363.8/5

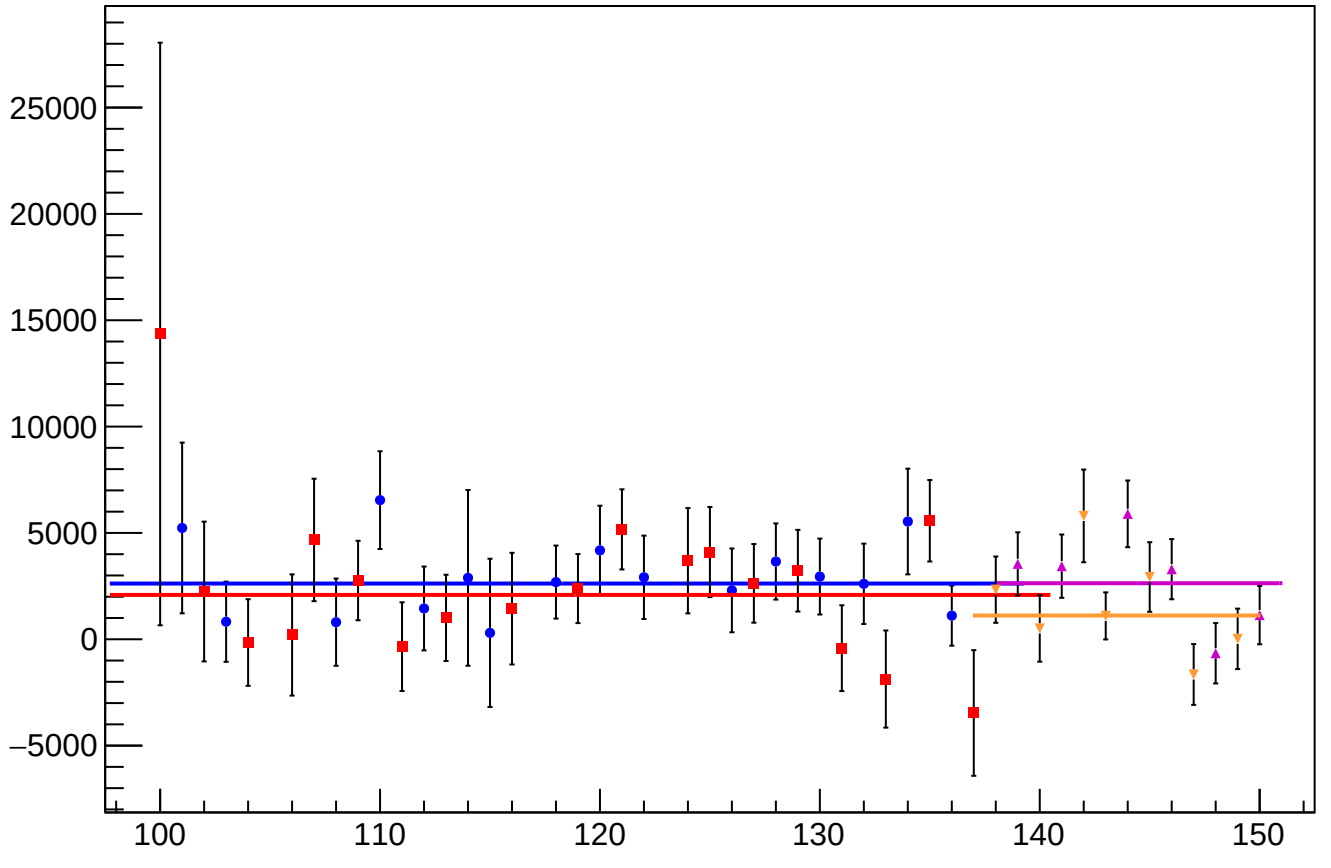
Left: 3748.578+/-0.846 $\chi^2$/NDF: 1494233.4/12

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3227.770+/-0.708 $\chi^2$/NDF:4048741.8/21

Out: 2865.961+/-0.634 $\chi^2$/NDF:4480654.6/25

All: 3026.903+/-0.472 $\chi^2$/NDF: 8674387.9/47




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1117.598+/-558.505 $\chi^2$/NDF:11.0/6

Right Out: 2085.606+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 2635.837+/-593.267 $\chi^2$/NDF:11.8/5

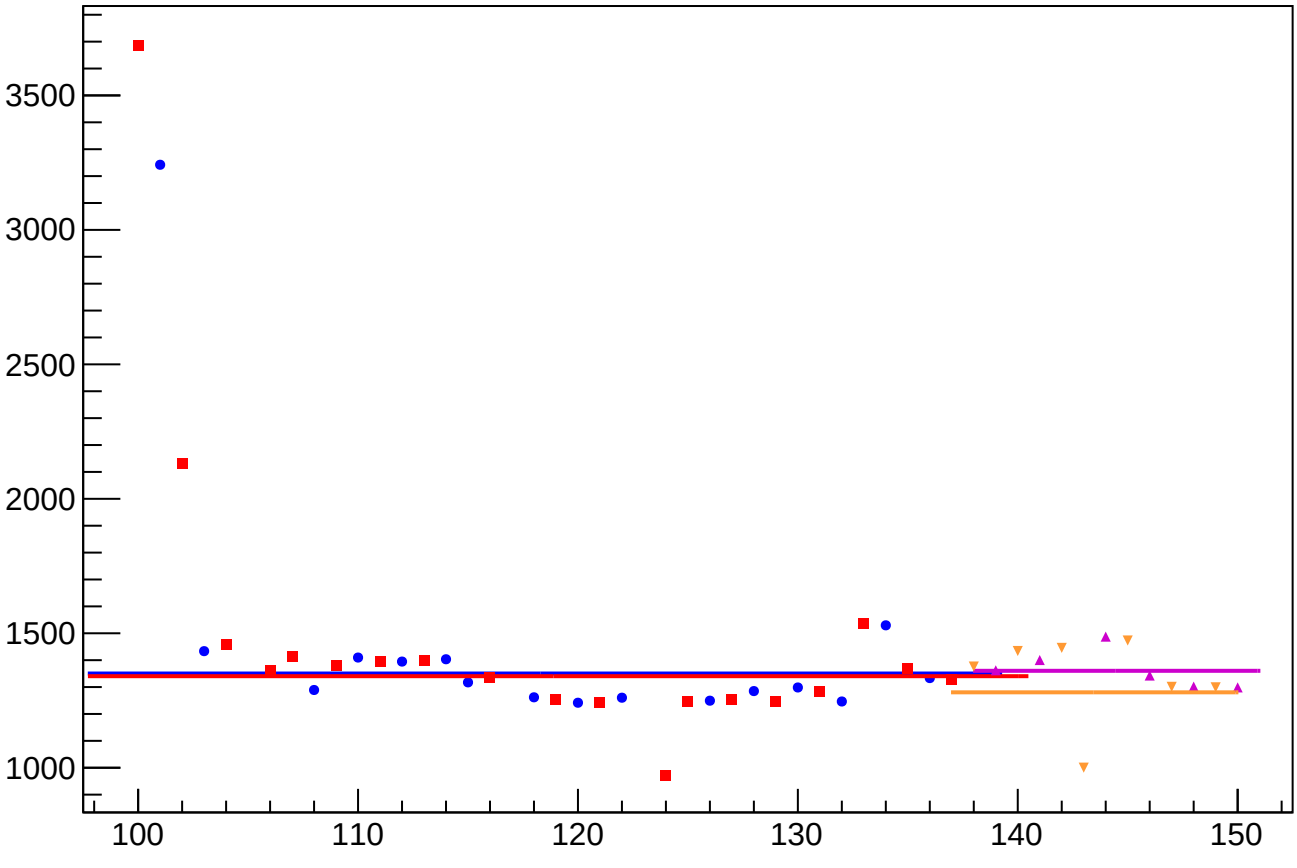
Left: 1830.937+/-406.657 $\chi^2$/NDF: 26.2/12

Right: 2349.577+/-359.323 $\chi^2$/NDF: 30.8/34

In: 2627.059+/-387.399 $\chi^2$/NDF:21.1/21

Out: 1650.301+/-374.529 $\chi^2$/NDF:33.6/25

All: 2122.185+/-269.267 $\chi^2$/NDF: 58.0/47




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.1/15

Left Out: 1280.432+/-0.395 $\chi^2$/NDF:194988.0/6

Right Out: 1340.429+/-0.357 $\chi^2$/NDF: 272183.5/18

Left In: 1360.425+/-0.420 $\chi^2$/NDF:22375.1/5

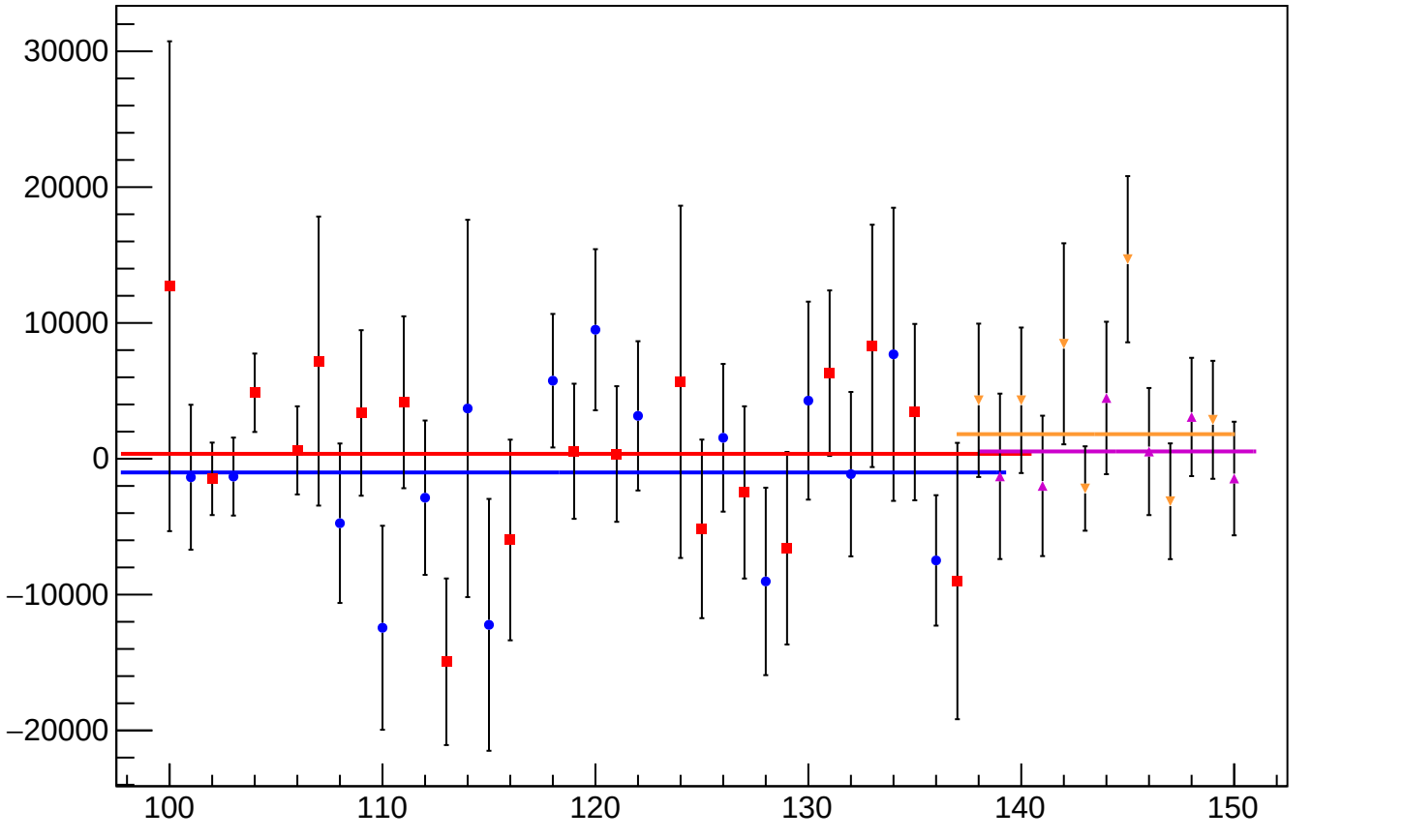
Left: 1318.017+/-0.288 $\chi^2$/NDF: 236639.8/12

Right: 1345.331+/-0.254 $\chi^2$/NDF: 766617.4/34

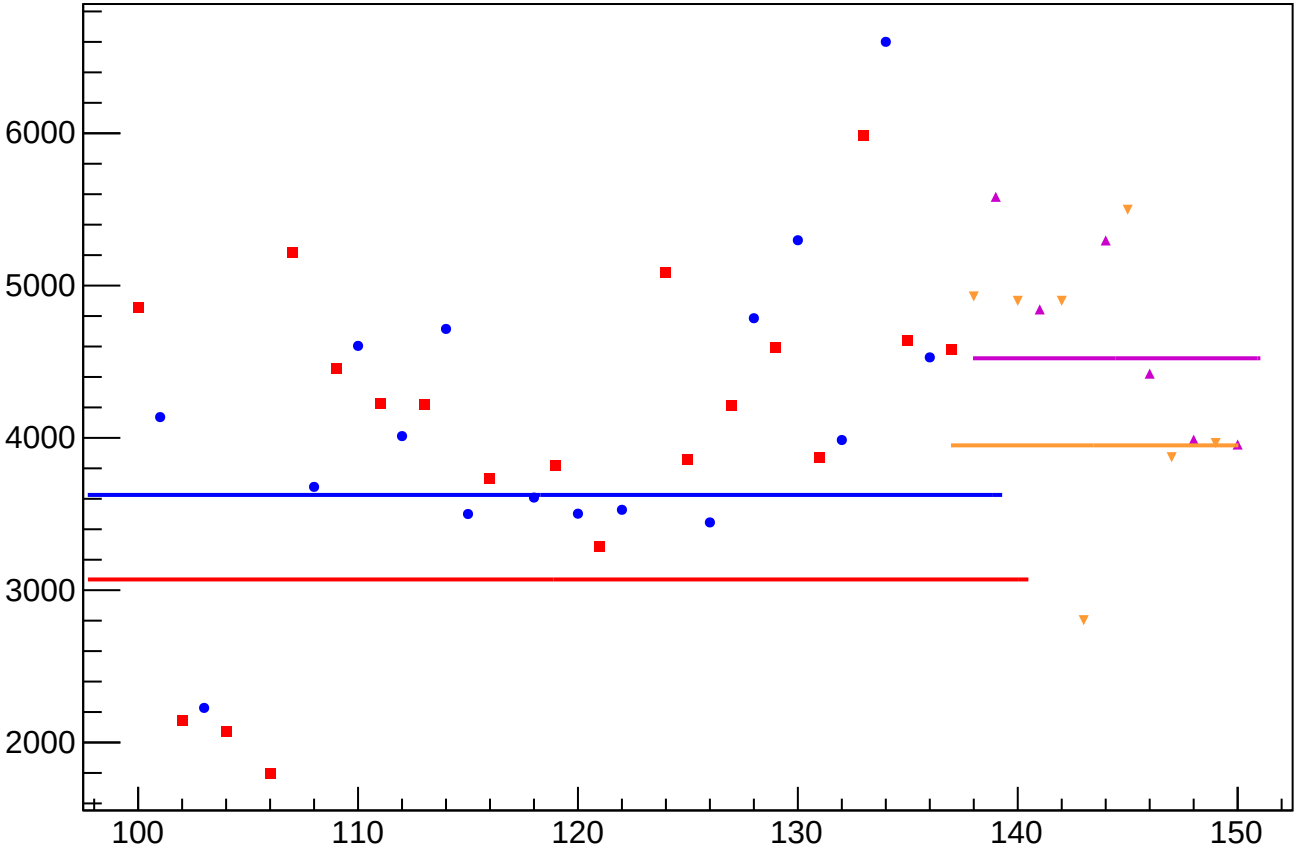
In: 1354.657+/-0.274 $\chi^2$/NDF:516755.8/21

Out: 1313.467+/-0.265 $\chi^2$/NDF:479879.4/25

All: 1333.360+/-0.190 $\chi^2$/NDF: 1008325.5/47


asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
Right In: -1006.752+/-1404.458 χ²/NDF: 14.6/15
Left Out: 1813.052+/-1759.836 χ²/NDF:8.7/6
Right Out: 364.493+/-1202.498 χ²/NDF: 16.2/18
Left In: 541.067+/-1992.977 χ²/NDF:1.4/5
Left: 1255.777+/-1319.156 χ²/NDF: 10.3/12
Right: -215.533+/-913.430 χ²/NDF: 31.4/34
In: -493.151+/-1148.034 χ²/NDF:16.4/21
Out: 825.556+/-992.851 χ²/NDF:25.4/25
All: 261.290+/-750.970 χ²/NDF: 42.5/47

asym_atl_avg_atr_avg_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 3625.512+/-0.993 $\chi^2$/NDF: 944905.4/15

Left Out: 3950.875+/-1.244 $\chi^2$/NDF:557286.9/6

Right Out: 3070.442+/-0.850 $\chi^2$/NDF: 1838659.1/18

Left In: 4522.634+/-1.409 $\chi^2$/NDF:174070.3/5

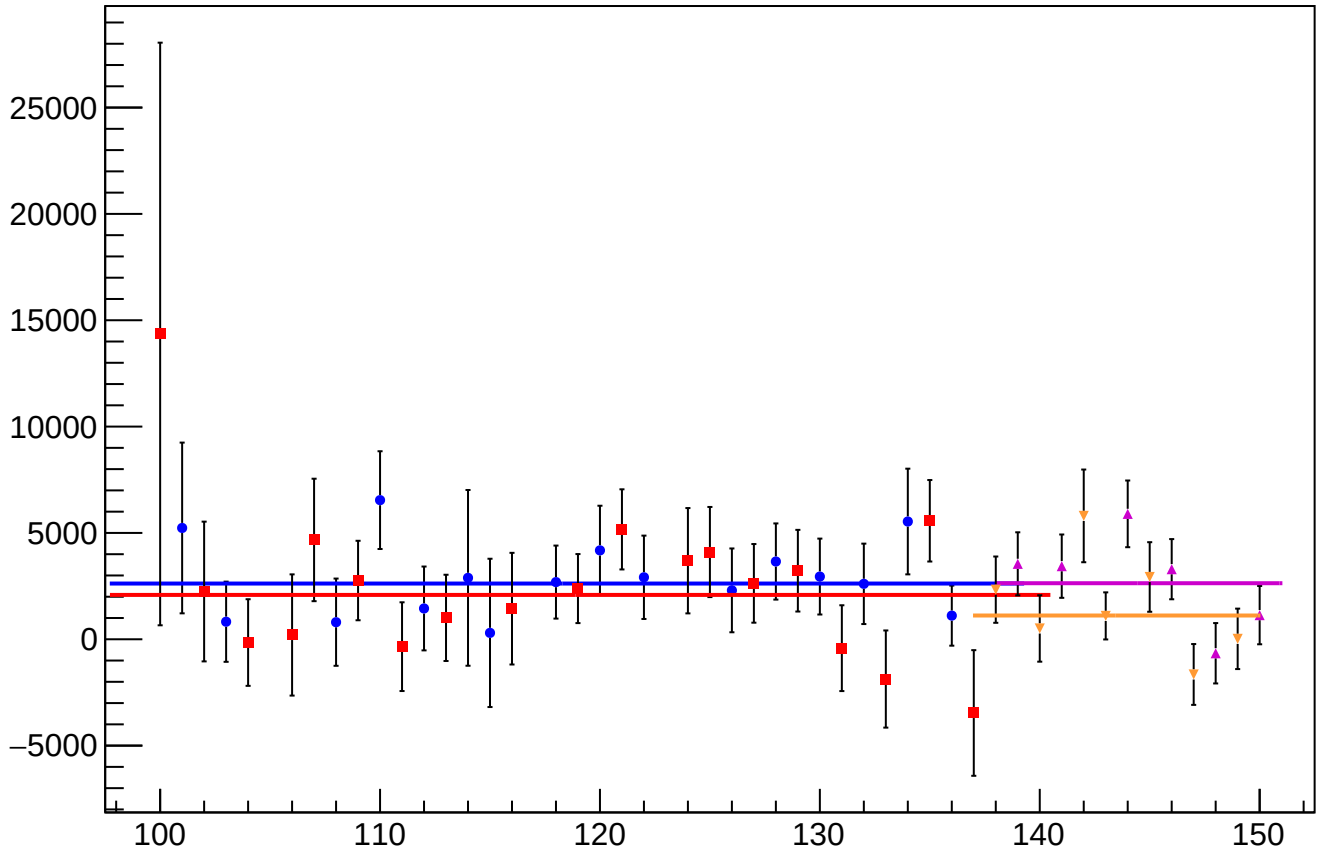
Left: 4201.371+/-0.933 $\chi^2$/NDF: 823848.4/12

Right: 3305.233+/-0.646 $\chi^2$/NDF: 2963820.1/34

In: 3923.197+/-0.812 $\chi^2$/NDF:1389758.6/21

Out: 3350.675+/-0.702 $\chi^2$/NDF:2737199.2/25

All: 3595.654+/-0.531 $\chi^2$/NDF: 4411522.3/47




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1117.602+/-558.506 $\chi^2$/NDF:11.0/6

Right Out: 2085.608+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 2635.834+/-593.268 $\chi^2$/NDF:11.8/5

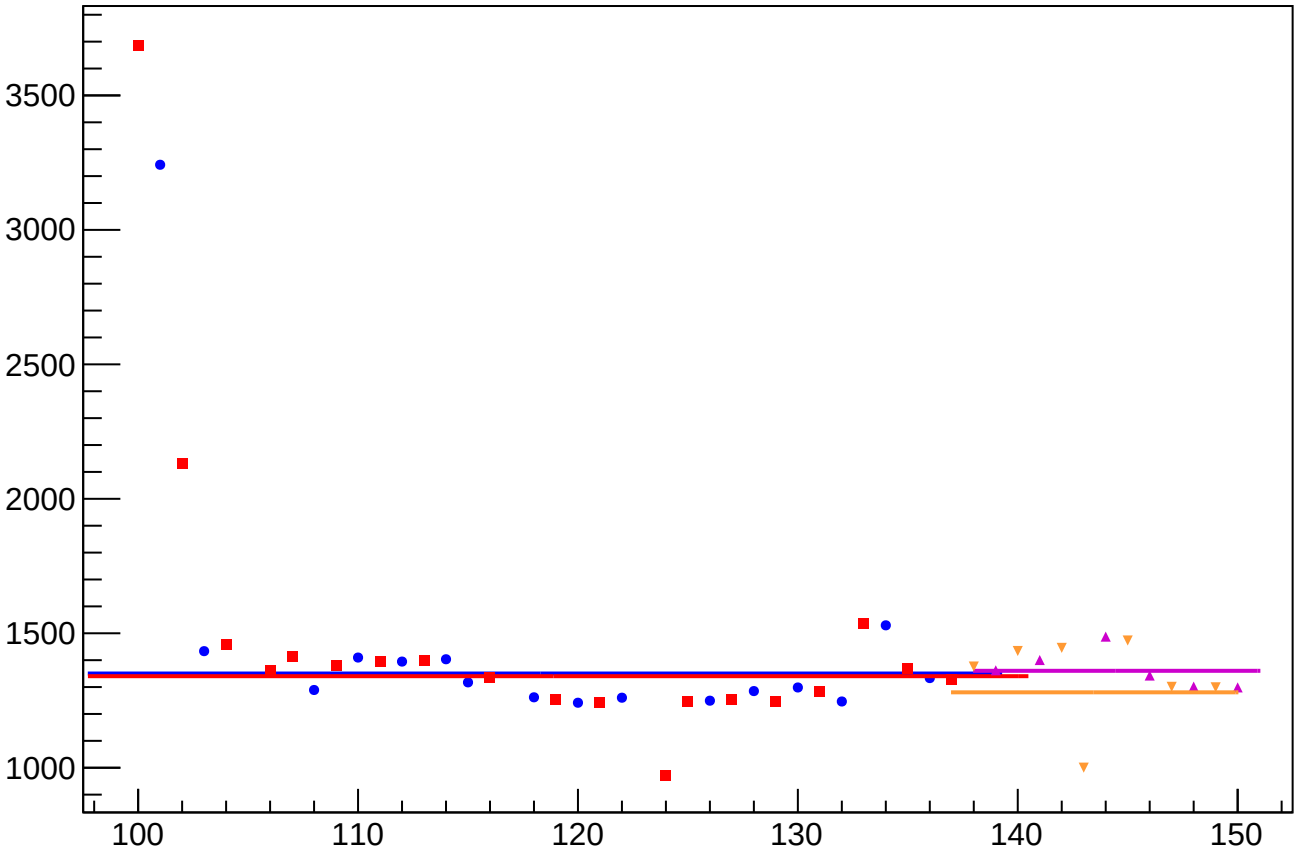
Left: 1830.937+/-406.657 $\chi^2$/NDF: 26.2/12

Right: 2349.579+/-359.323 $\chi^2$/NDF: 30.8/34

In: 2627.058+/-387.399 $\chi^2$/NDF:21.1/21

Out: 1650.304+/-374.529 $\chi^2$/NDF:33.6/25

All: 2122.186+/-269.267 $\chi^2$/NDF: 58.0/47




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.2/15

Left Out: 1280.433+/-0.395 $\chi^2$/NDF:194988.2/6

Right Out: 1340.428+/-0.357 $\chi^2$/NDF: 272182.5/18

Left In: 1360.426+/-0.420 $\chi^2$/NDF:22375.3/5

Left: 1318.018+/-0.288 $\chi^2$/NDF: 236640.3/12

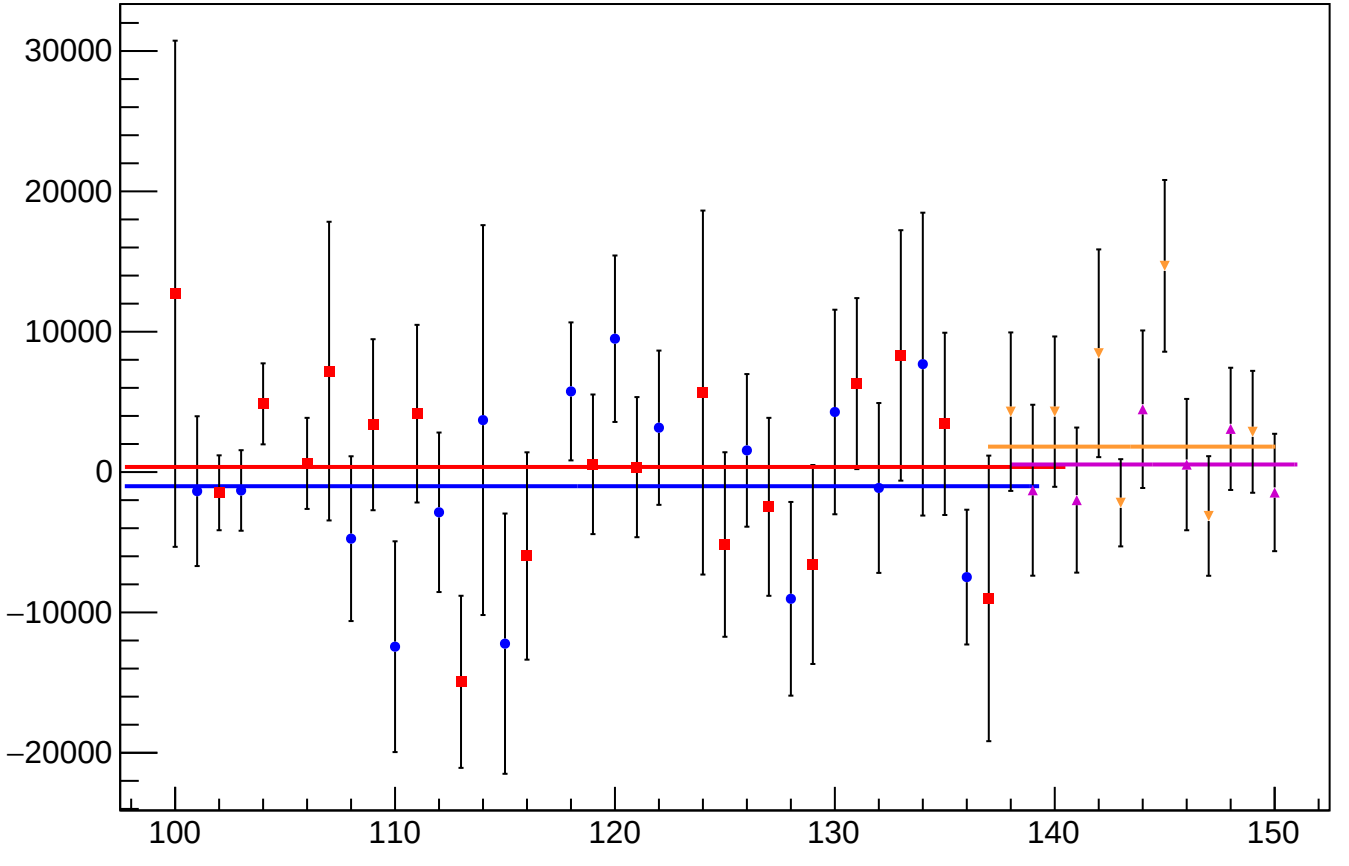
Right: 1345.330+/-0.254 $\chi^2$/NDF: 766616.6/34

In: 1354.657+/-0.274 $\chi^2$/NDF:516756.2/21

Out: 1313.468+/-0.265 $\chi^2$/NDF:479878.0/25

All: 1333.360+/-0.190 $\chi^2$/NDF: 1008324.6/47

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1006.742+/-1404.455 $\chi^2$/NDF: 14.6/15

Left Out: 1813.052+/-1759.839 $\chi^2$/NDF:8.7/6

Right Out: 364.495+/-1202.495 $\chi^2$/NDF: 16.2/18

Left In: 541.065+/-1992.979 $\chi^2$/NDF:1.4/5

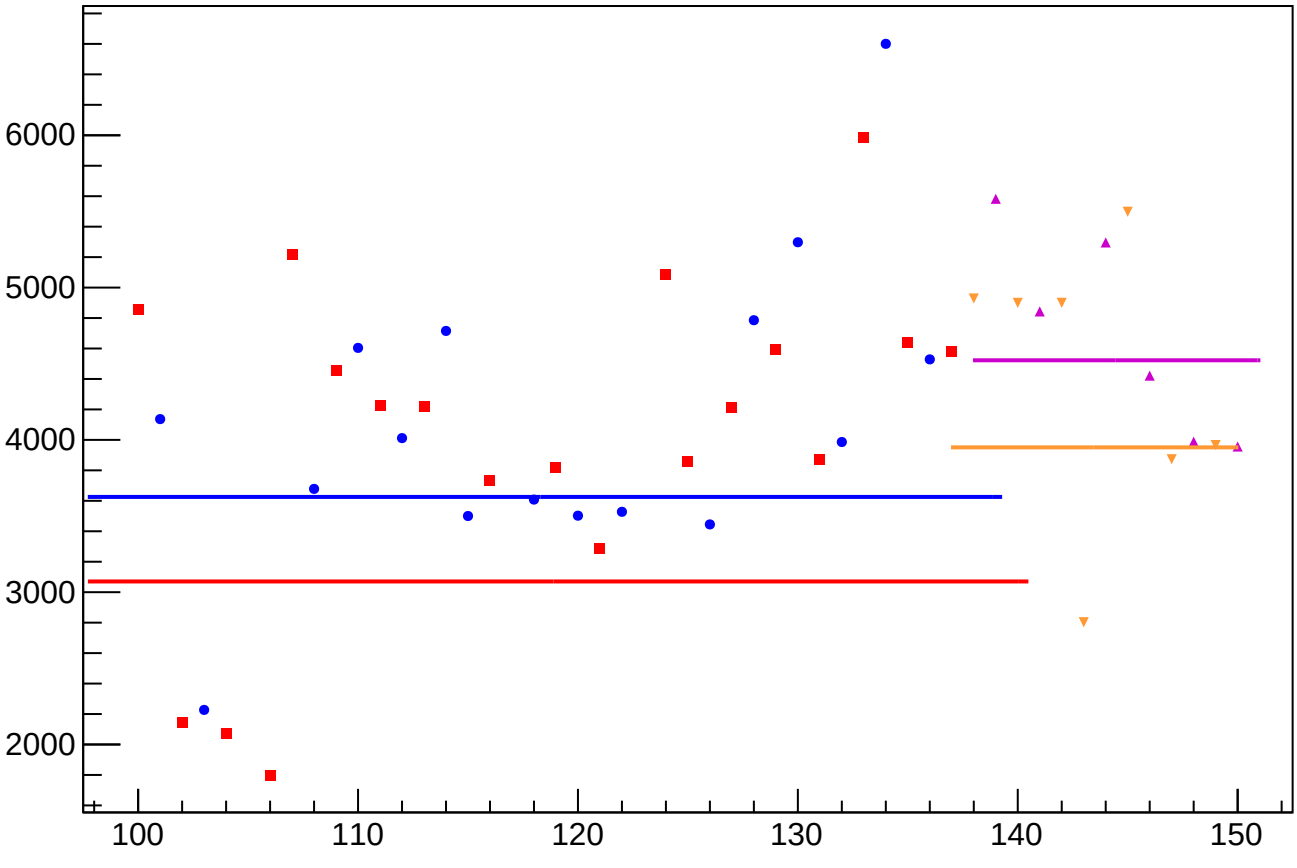
Left: 1255.776+/-1319.158 $\chi^2$/NDF: 10.3/12

Right: -215.528+/-913.428 $\chi^2$/NDF: 31.4/34

In: -493.148+/-1148.033 $\chi^2$/NDF:16.4/21

Out: 825.554+/-992.850 $\chi^2$/NDF:25.4/25

All: 261.290+/-750.969 $\chi^2$/NDF: 42.5/47




Right In: 3625.503+/-0.993 $\chi^2$/NDF: 944907.6/15

Left Out: 3950.881+/-1.244 $\chi^2$/NDF:557287.1/6

Right Out: 3070.434+/-0.850 $\chi^2$/NDF: 1838662.0/18

Left In: 4522.640+/-1.409 $\chi^2$/NDF:174071.3/5

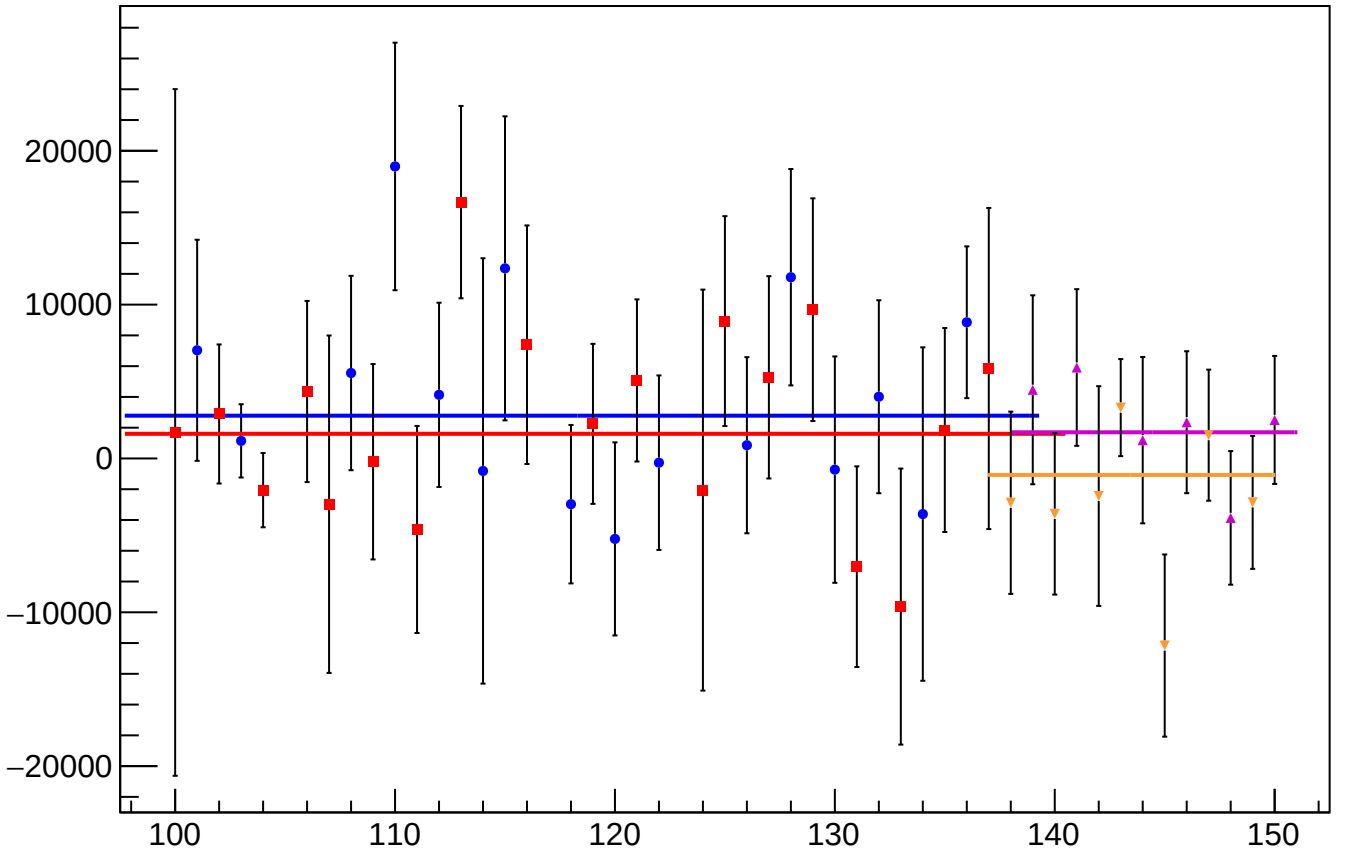
Left: 4201.377+/-0.933 $\chi^2$/NDF: 823849.3/12

Right: 3305.224+/-0.646 $\chi^2$/NDF: 2963825.9/34

In: 3923.191+/-0.812 $\chi^2$/NDF:1389770.7/21

Out: 3350.670+/-0.702 $\chi^2$/NDF:2737213.6/25

All: 3595.648+/-0.531 $\chi^2$/NDF: 4411549.4/47




Right In: 2780.878+/-1389.439 $\chi^2$/NDF: 13.2/15

Left Out: -1071.012+/-1762.190 $\chi^2$/NDF:6.3/6

Right Out: 1602.626+/-1337.018 $\chi^2$/NDF: 16.8/18

Left In: 1701.645+/-1972.312 $\chi^2$/NDF:2.6/5

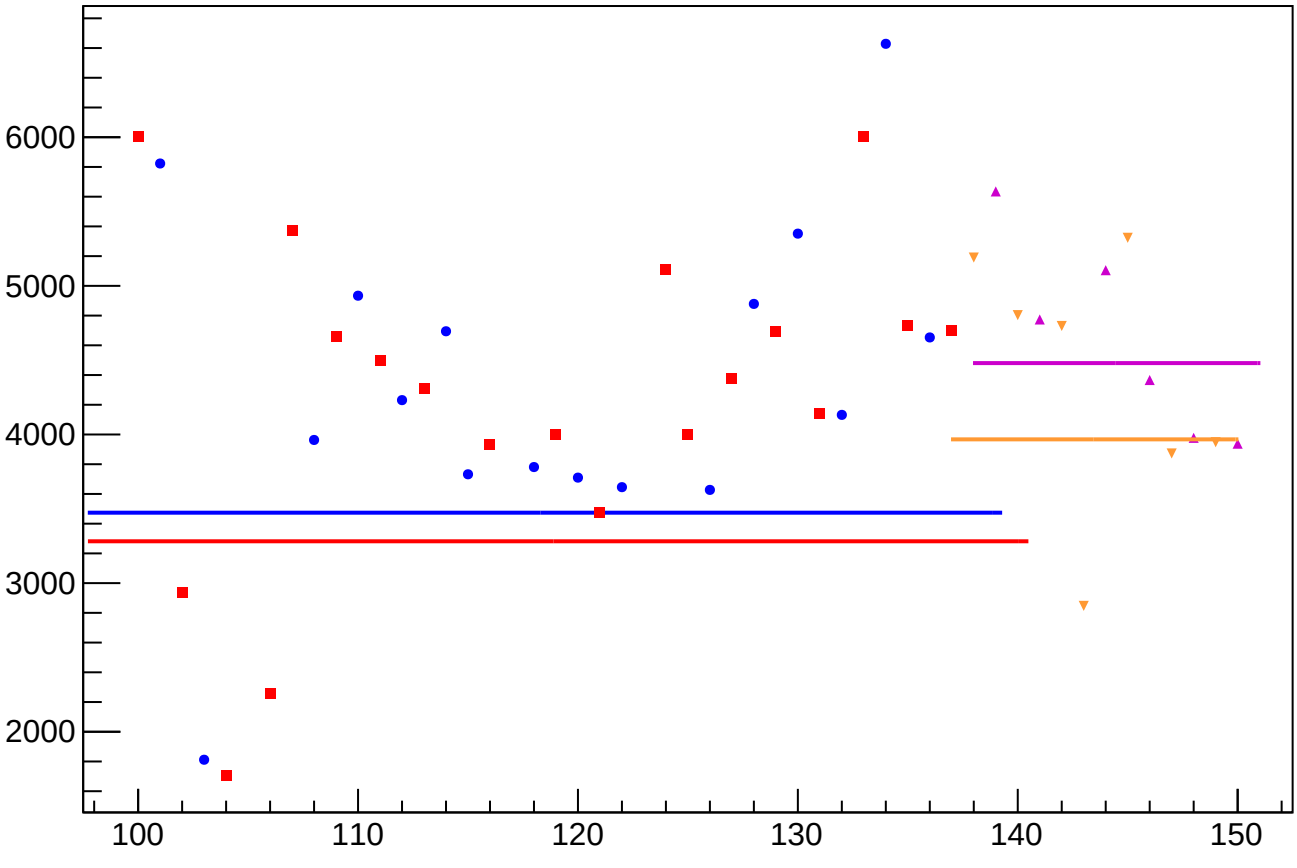
Left: 159.805+/-1314.088 $\chi^2$/NDF: 10.0/12

Right: 2169.106+/-963.414 $\chi^2$/NDF: 30.3/34

In: 2422.922+/-1135.881 $\chi^2$/NDF:16.0/21

Out: 625.820+/-1065.137 $\chi^2$/NDF:24.6/25

All: 1466.669+/-776.972 $\chi^2$/NDF: 41.9/47




Right In: 3473.898+/-0.982 $\chi^2$/NDF: 1843964.2/15

Left Out: 3967.230+/-1.246 $\chi^2$/NDF:516947.1/6

Right Out: 3281.478+/-0.932 $\chi^2$/NDF: 1875493.9/18

Left In: 4480.362+/-1.395 $\chi^2$/NDF:166102.1/5

Left: 4195.016+/-0.929 $\chi^2$/NDF: 758329.1/12

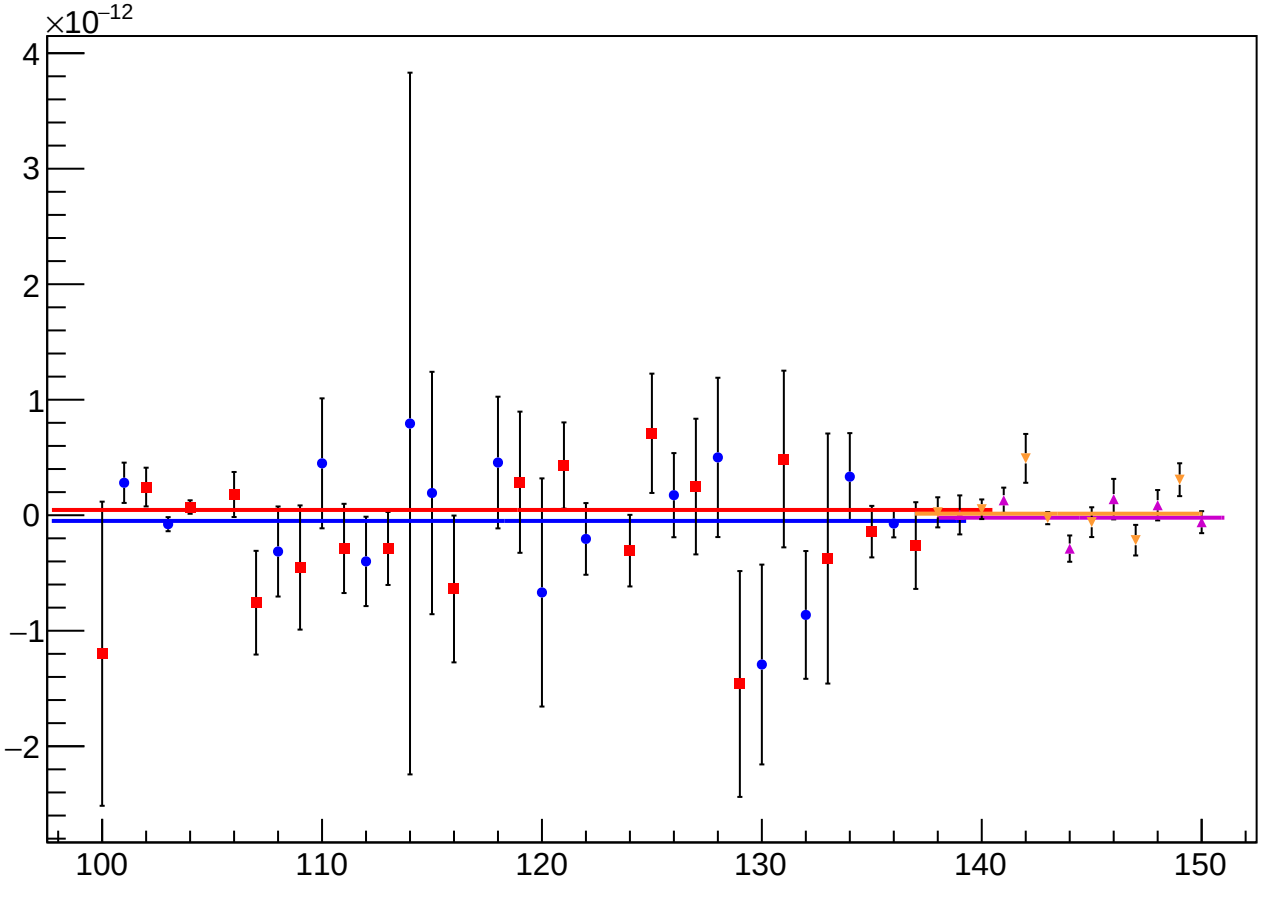
Right: 3372.669+/-0.676 $\chi^2$/NDF: 3739637.8/34

In: 3807.715+/-0.803 $\chi^2$/NDF:2358134.2/21

Out: 3527.656+/-0.747 $\chi^2$/NDF:2586585.3/25

All: 3657.471+/-0.547 $\chi^2$/NDF: 5009944.8/47

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:9.1/5

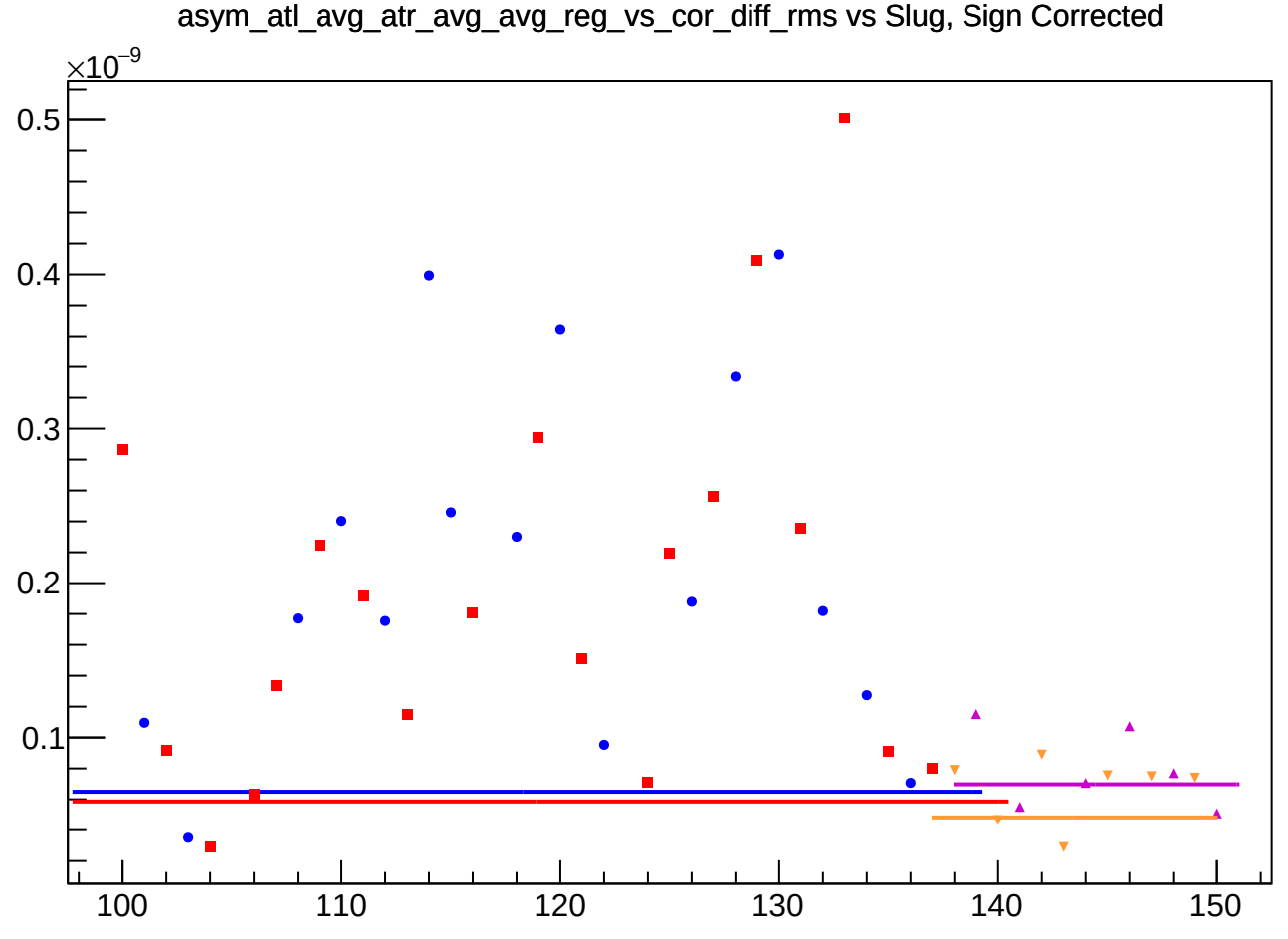
Left: 0.000+/-0.000 $\chi^2$/NDF: 22.9/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:32.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 57.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2592912.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:688484.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2855105.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:357425.3/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1284979.7/12

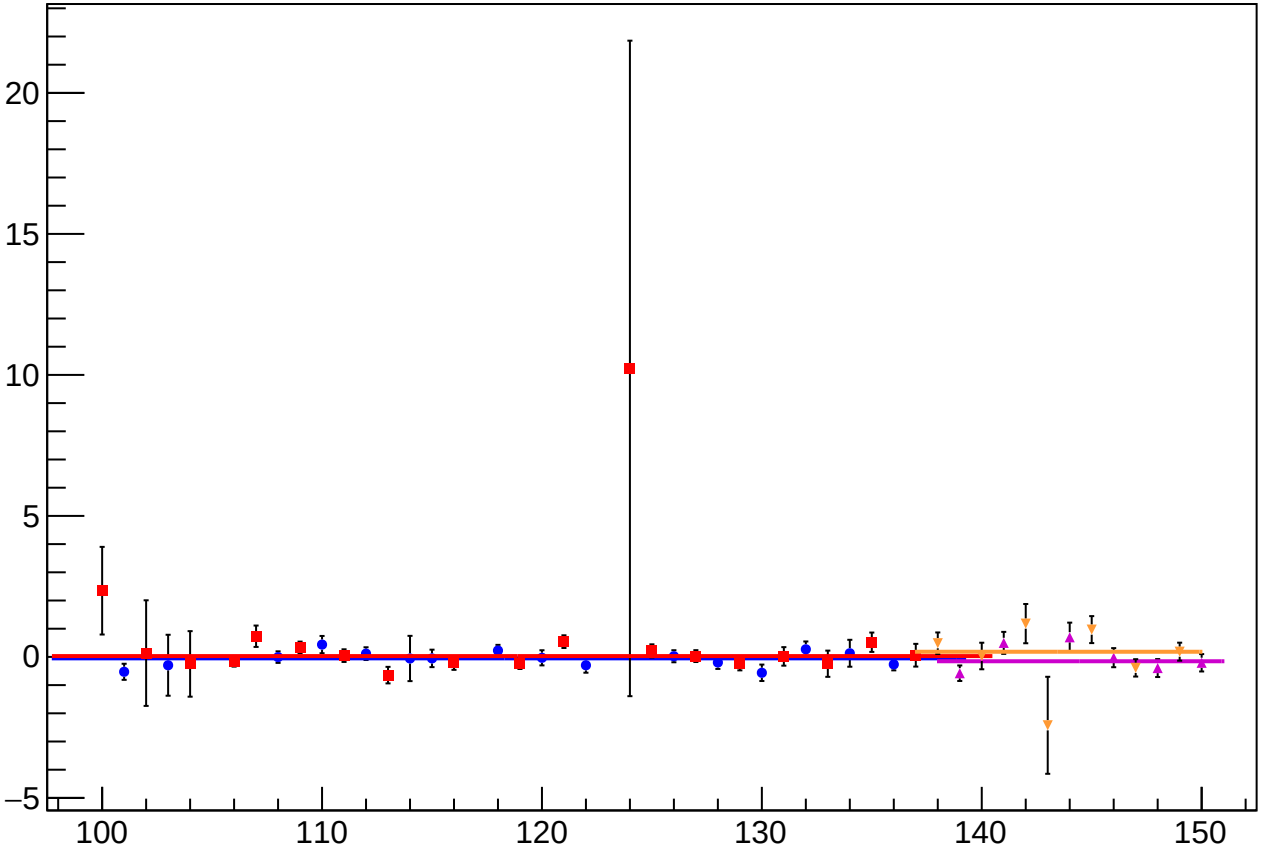
Right: 0.000+/-0.000 $\chi^2$/NDF: 5465312.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2960009.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3602601.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6785008.6/47

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: 0.183+/-0.161 $\chi^2$/NDF:11.2/6

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.154+/-0.138 $\chi^2$/NDF:8.6/5

Left: -0.012+/-0.105 $\chi^2$/NDF: 22.3/12

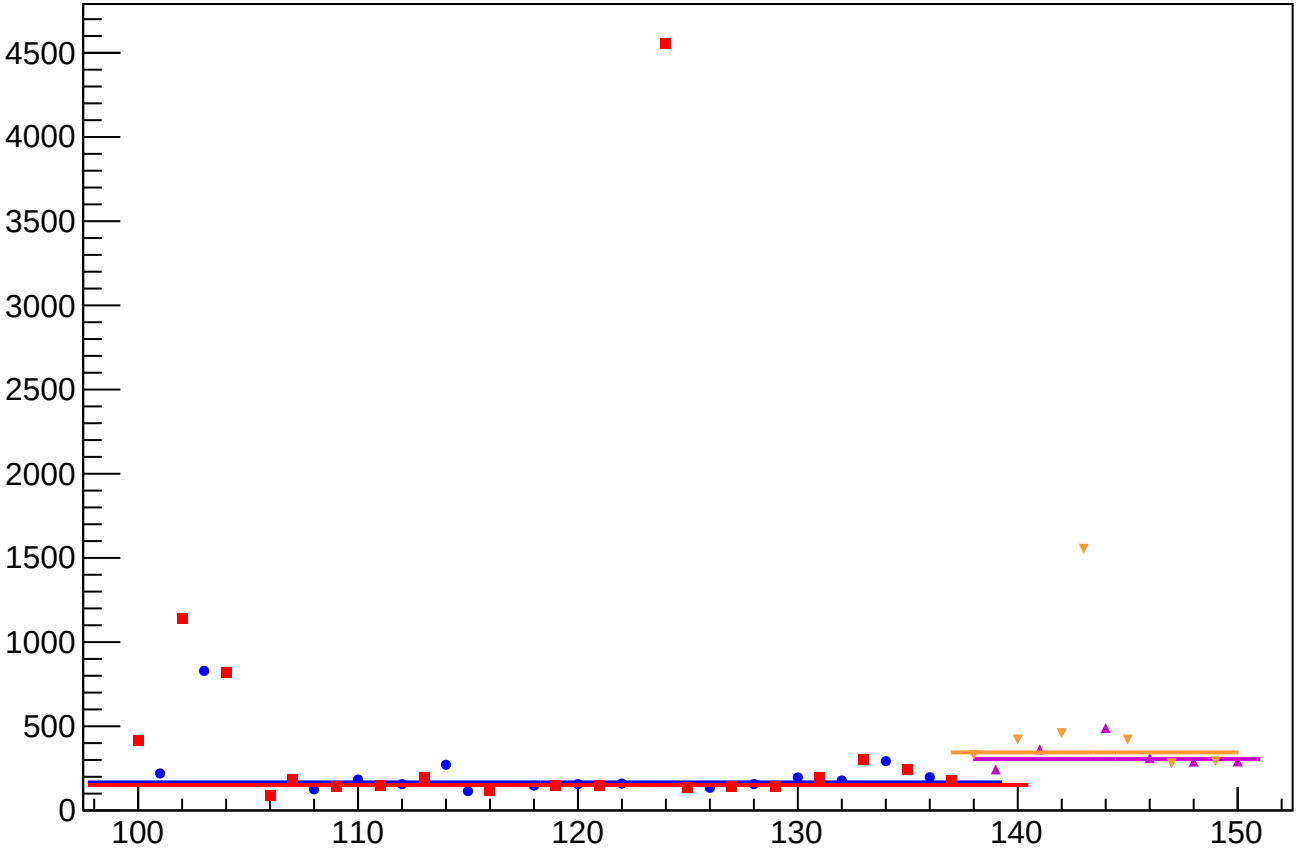
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.071+/-0.060 $\chi^2$/NDF:23.9/21

Out: 0.050+/-0.060 $\chi^2$/NDF:39.5/25

All: -0.010+/-0.042 $\chi^2$/NDF: 65.5/47

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.360+/-0.047 $\chi^2$/NDF: 1282728.5/15

Left Out: 344.768+/-0.114 $\chi^2$/NDF:1295279.5/6

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 305.389+/-0.097 $\chi^2$/NDF:404842.0/5

Left: 322.014+/-0.074 $\chi^2$/NDF: 1769020.5/12

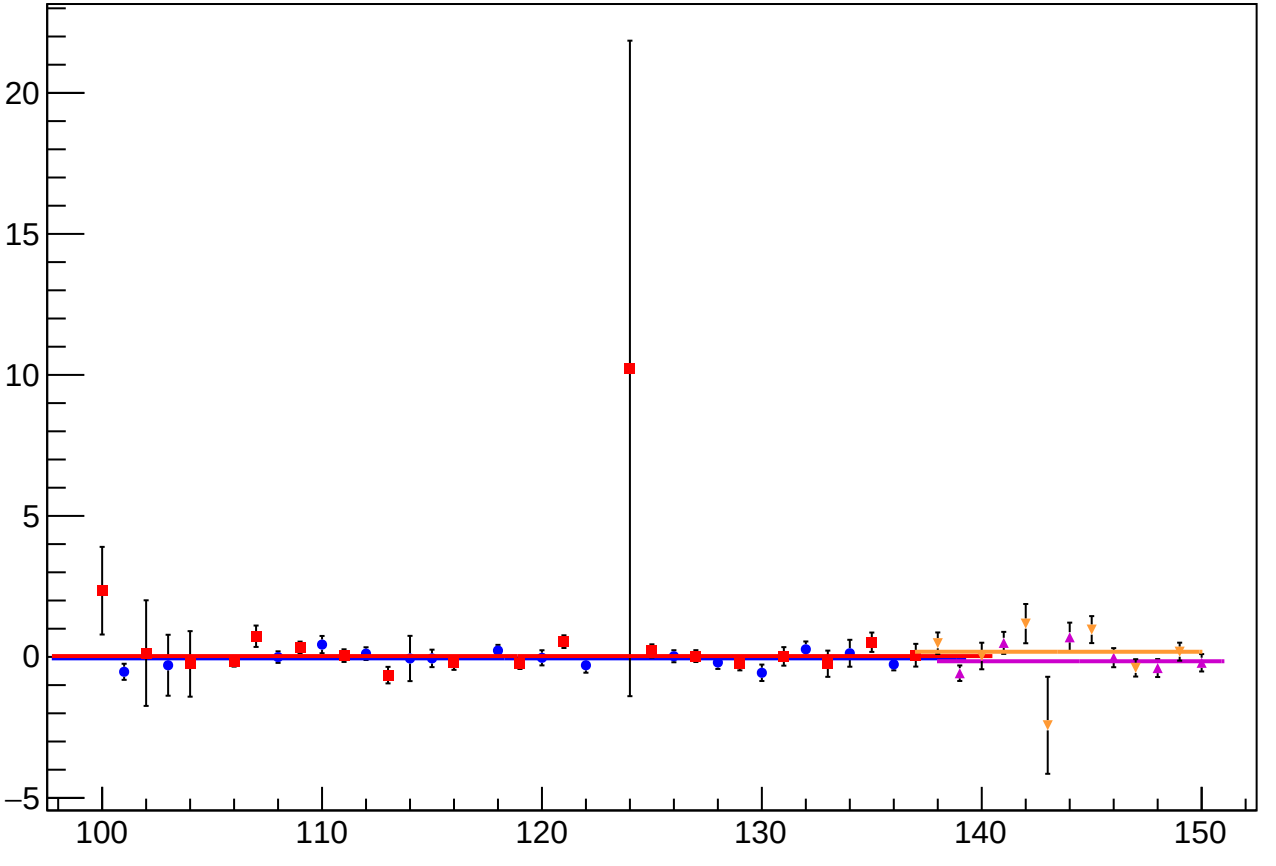
Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 192.751+/-0.042 $\chi^2$/NDF:3335652.7/21

Out: 178.063+/-0.042 $\chi^2$/NDF:6084694.7/25

All: 185.339+/-0.030 $\chi^2$/NDF: 9480709.9/47

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: 0.183+/-0.161 $\chi^2$/NDF:11.2/6

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.154+/-0.138 $\chi^2$/NDF:8.6/5

Left: -0.012+/-0.105 $\chi^2$/NDF: 22.3/12

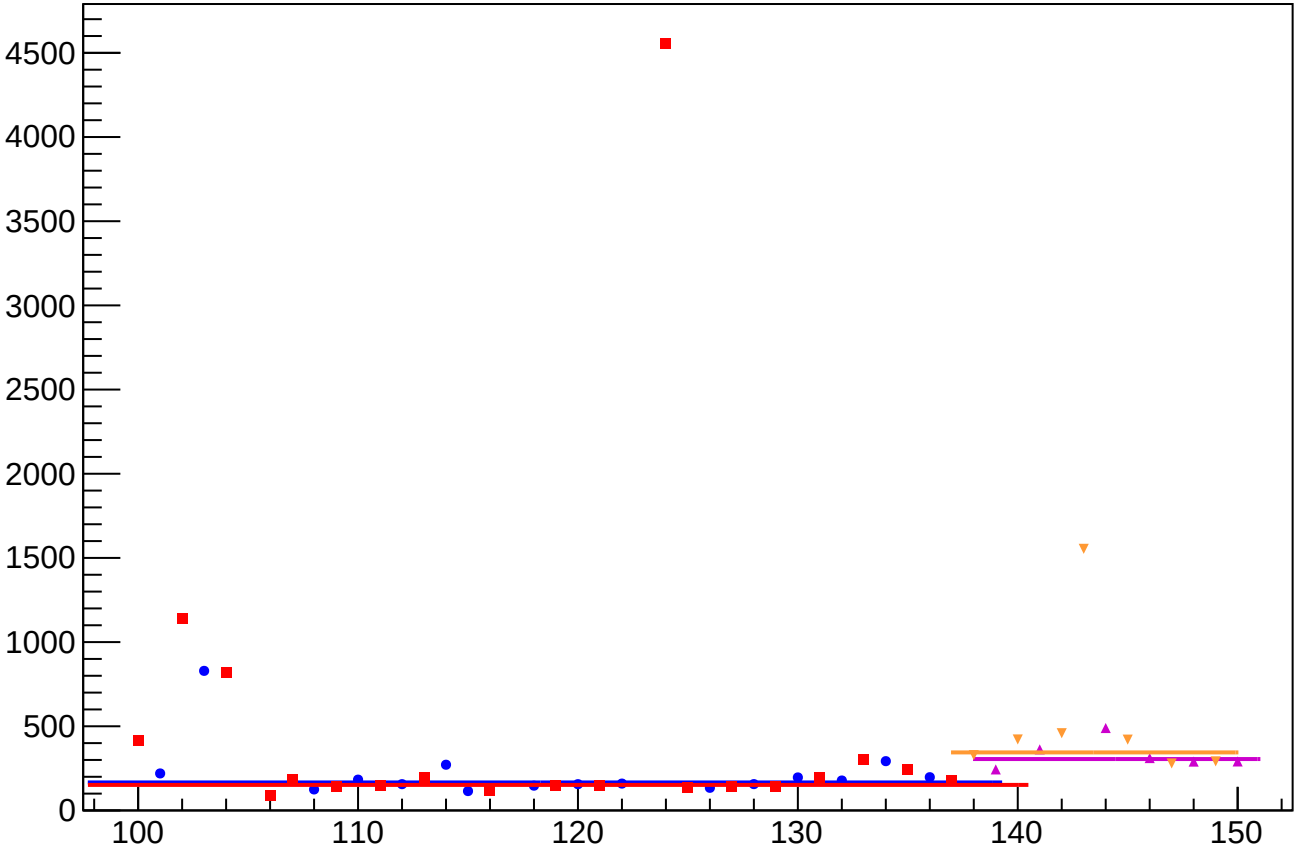
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.071+/-0.060 $\chi^2$/NDF:23.9/21

Out: 0.050+/-0.060 $\chi^2$/NDF:39.5/25

All: -0.010+/-0.042 $\chi^2$/NDF: 65.5/47

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.360+/-0.047 $\chi^2$/NDF: 1282728.5/15

Left Out: 344.768+/-0.114 $\chi^2$/NDF:1295279.5/6

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 305.389+/-0.097 $\chi^2$/NDF:404842.0/5

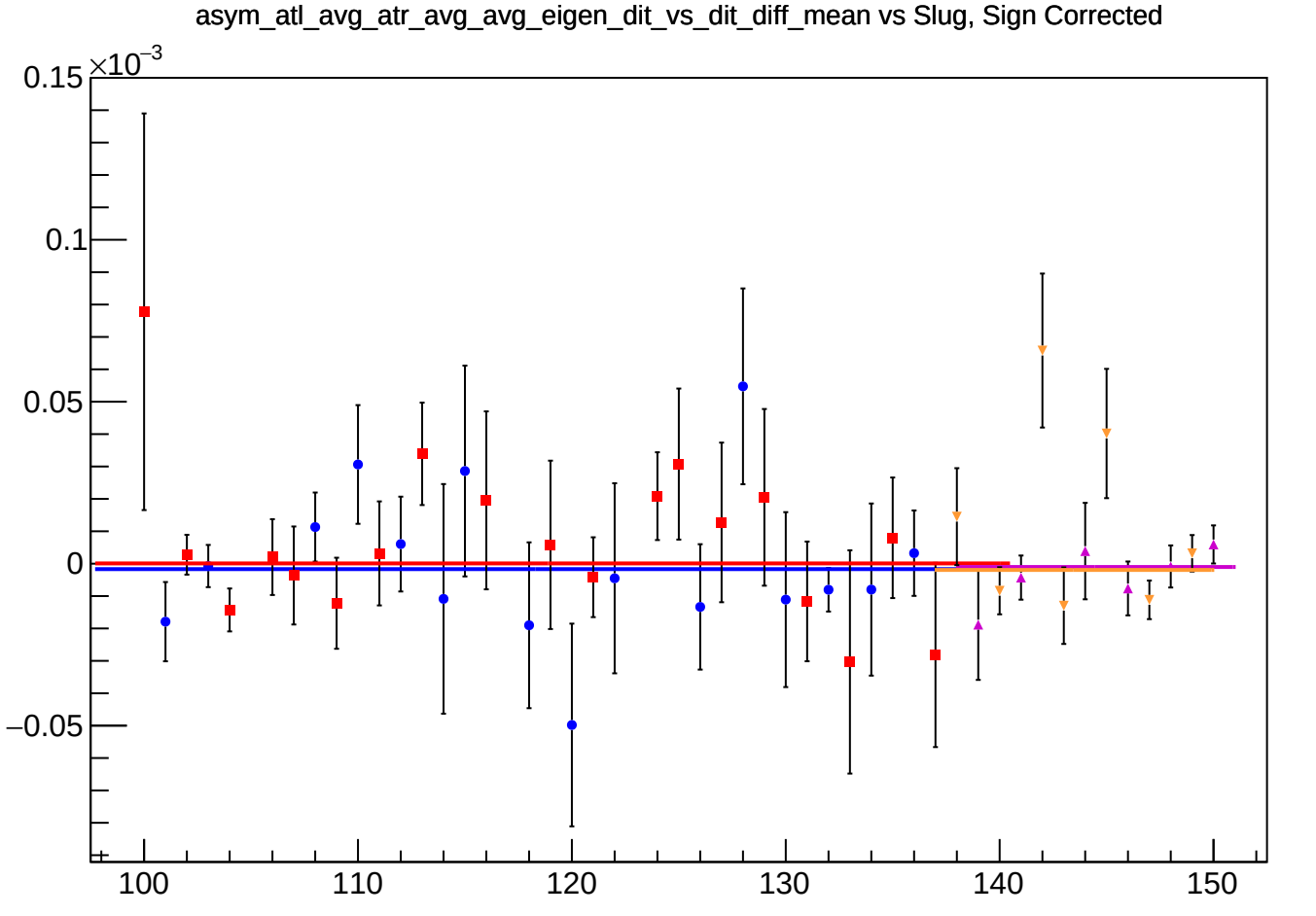
Left: 322.014+/-0.074 $\chi^2$/NDF: 1769020.5/12

Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 192.751+/-0.042 $\chi^2$/NDF:3335652.7/21

Out: 178.063+/-0.042 $\chi^2$/NDF:6084694.7/25

All: 185.339+/-0.030 $\chi^2$/NDF: 9480709.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.5/5

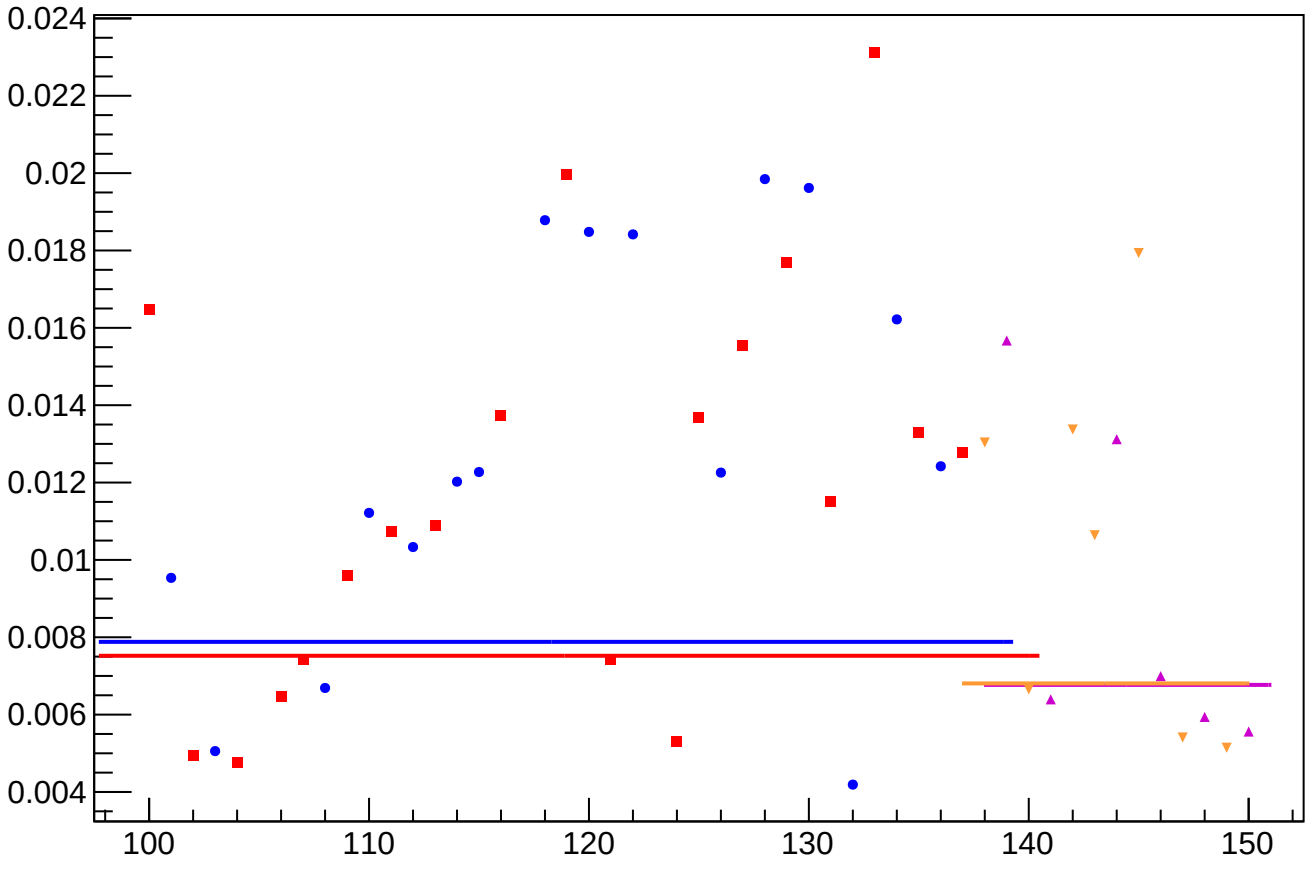
Left: -0.000+/-0.000 $\chi^2$/NDF: 22.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:38.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.8/47




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3301734.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1616779.3/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 2975331.6/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1033189.6/5

Left: 0.007+/-0.000 $\chi^2$/NDF: 2650107.0/12

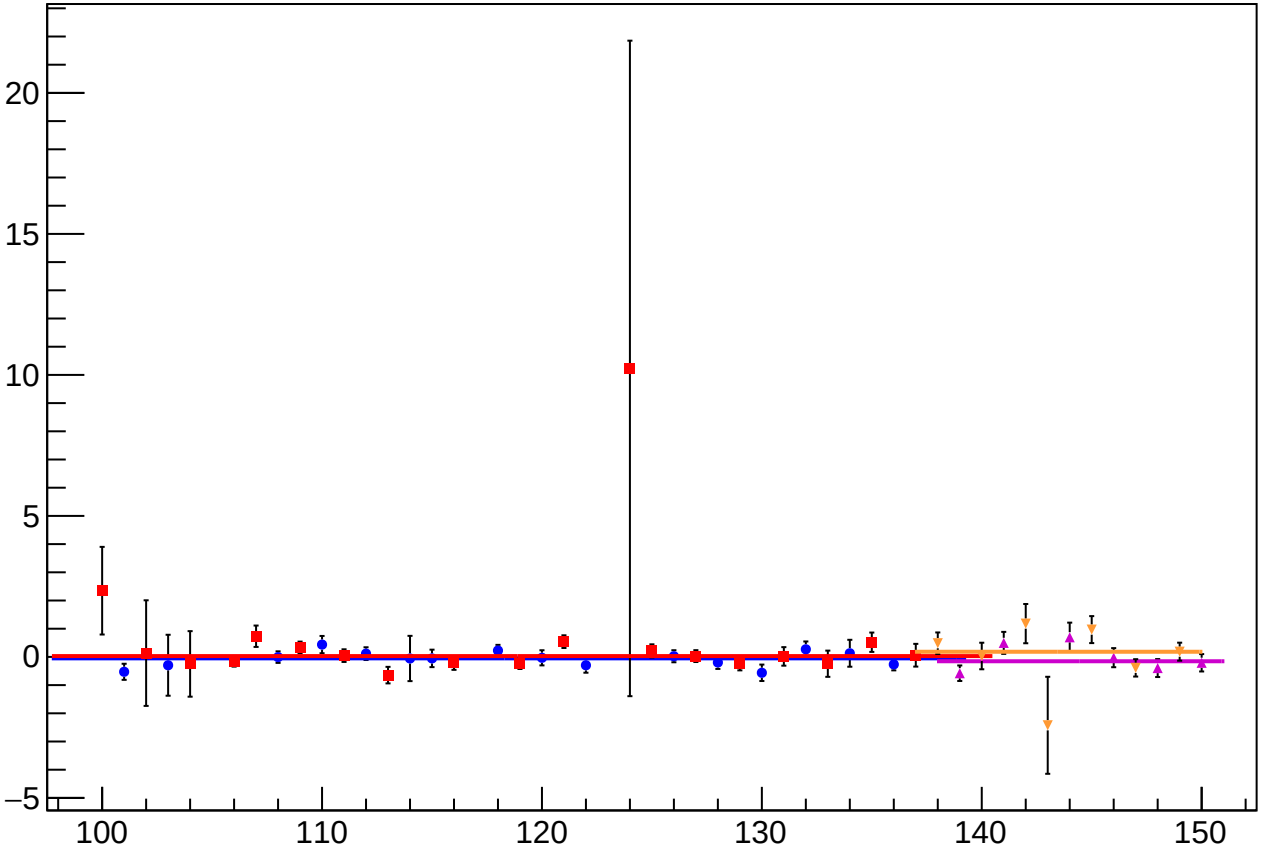
Right: 0.008+/-0.000 $\chi^2$/NDF: 6289175.2/34

In: 0.007+/-0.000 $\chi^2$/NDF:4447925.3/21

Out: 0.007+/-0.000 $\chi^2$/NDF:4642202.2/25

All: 0.007+/-0.000 $\chi^2$/NDF: 9092744.0/47

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: 0.183+/-0.161 $\chi^2$/NDF:11.2/6

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.154+/-0.138 $\chi^2$/NDF:8.6/5

Left: -0.012+/-0.105 $\chi^2$/NDF: 22.3/12

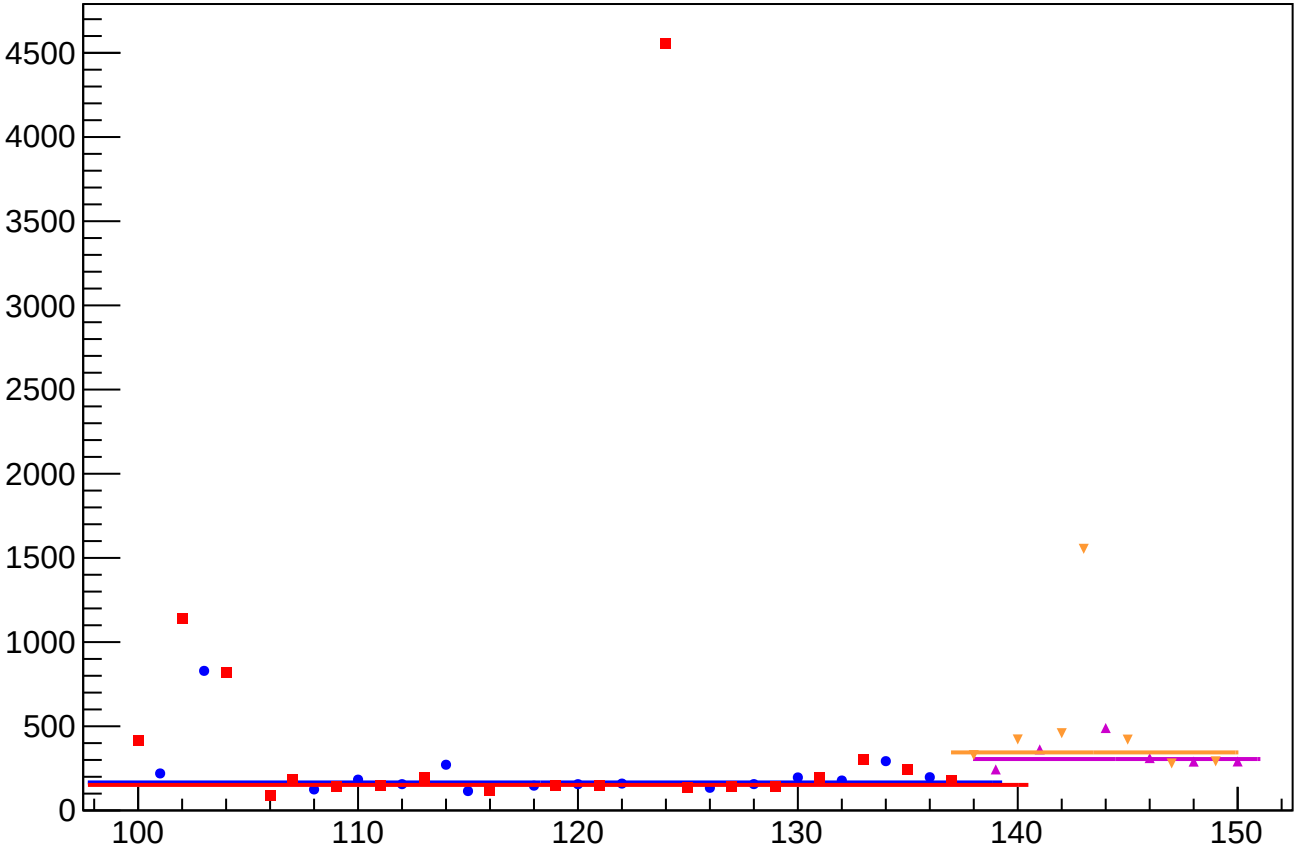
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.071+/-0.060 $\chi^2$/NDF:23.9/21

Out: 0.050+/-0.060 $\chi^2$/NDF:39.5/25

All: -0.010+/-0.042 $\chi^2$/NDF: 65.5/47

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.359+/-0.047 $\chi^2$/NDF: 1282724.2/15

Left Out: 344.771+/-0.114 $\chi^2$/NDF:1295276.8/6

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 305.394+/-0.097 $\chi^2$/NDF:404829.0/5

Left: 322.019+/-0.074 $\chi^2$/NDF: 1769000.2/12

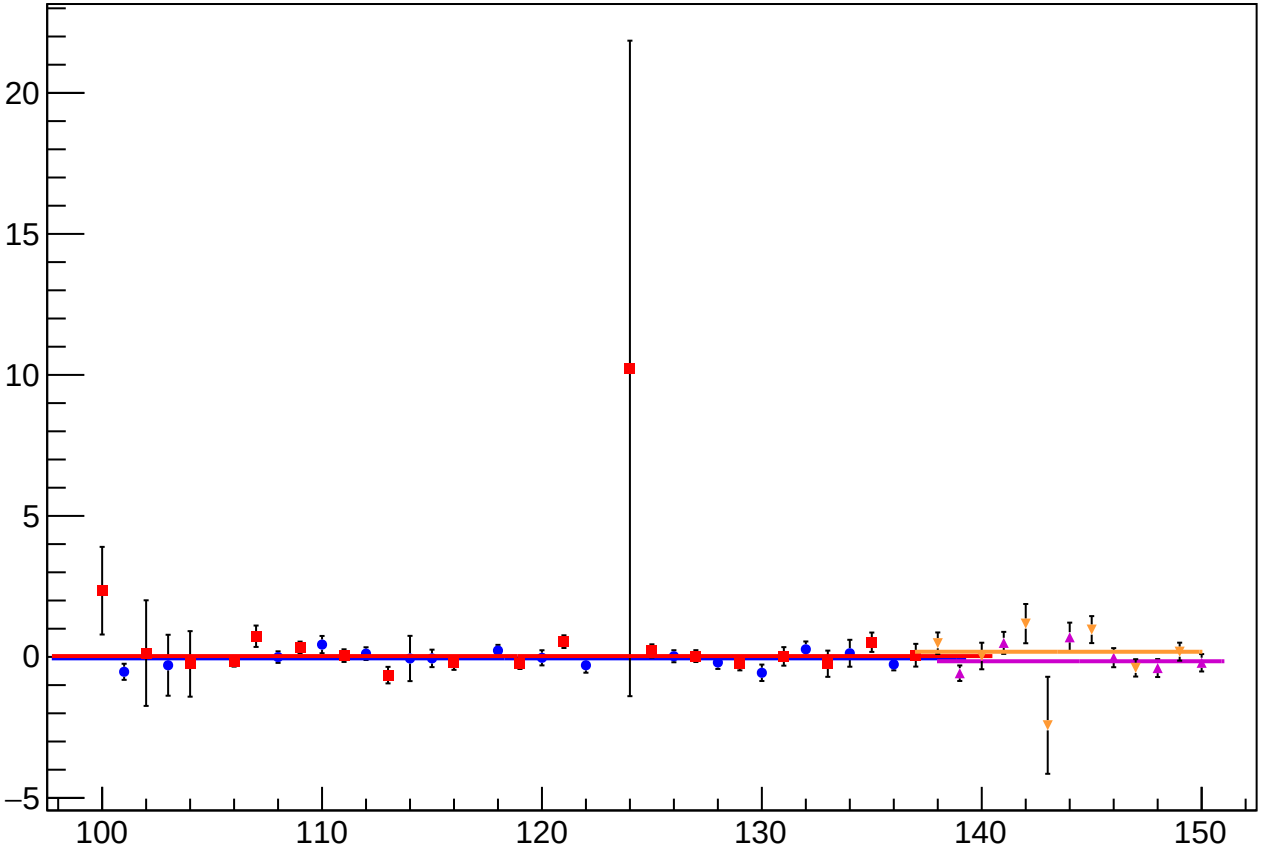
Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 192.751+/-0.042 $\chi^2$/NDF:3335724.2/21

Out: 178.061+/-0.042 $\chi^2$/NDF:6084783.7/25

All: 185.338+/-0.030 $\chi^2$/NDF: 9480878.3/47

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: 0.183+/-0.161 $\chi^2$/NDF:11.2/6

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.154+/-0.138 $\chi^2$/NDF:8.6/5

Left: -0.012+/-0.105 $\chi^2$/NDF: 22.3/12

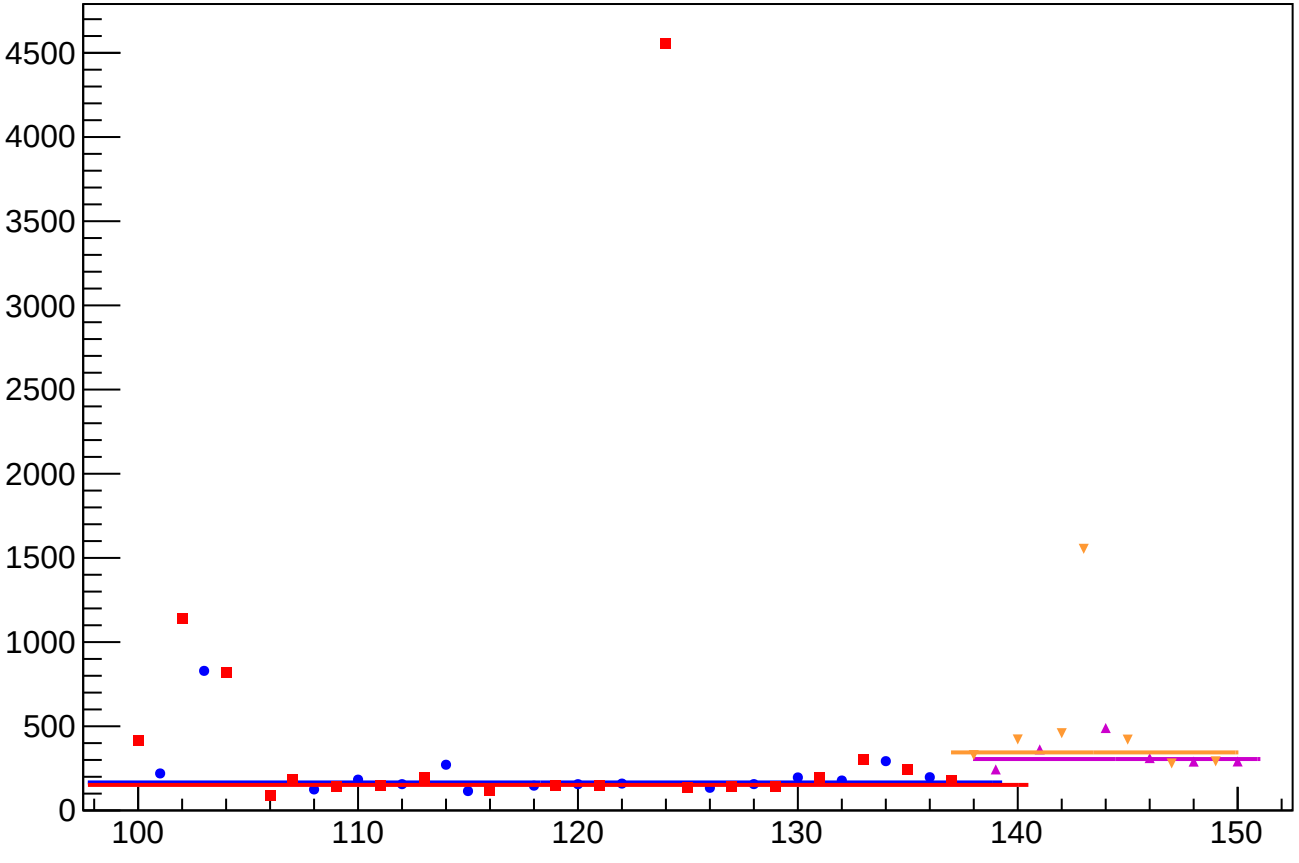
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.071+/-0.060 $\chi^2$/NDF:23.9/21

Out: 0.050+/-0.060 $\chi^2$/NDF:39.5/25

All: -0.010+/-0.042 $\chi^2$/NDF: 65.5/47

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.359+/-0.047 $\chi^2$/NDF: 1282724.2/15

Left Out: 344.771+/-0.114 $\chi^2$/NDF:1295276.8/6

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 305.394+/-0.097 $\chi^2$/NDF:404829.0/5

Left: 322.019+/-0.074 $\chi^2$/NDF: 1769000.2/12

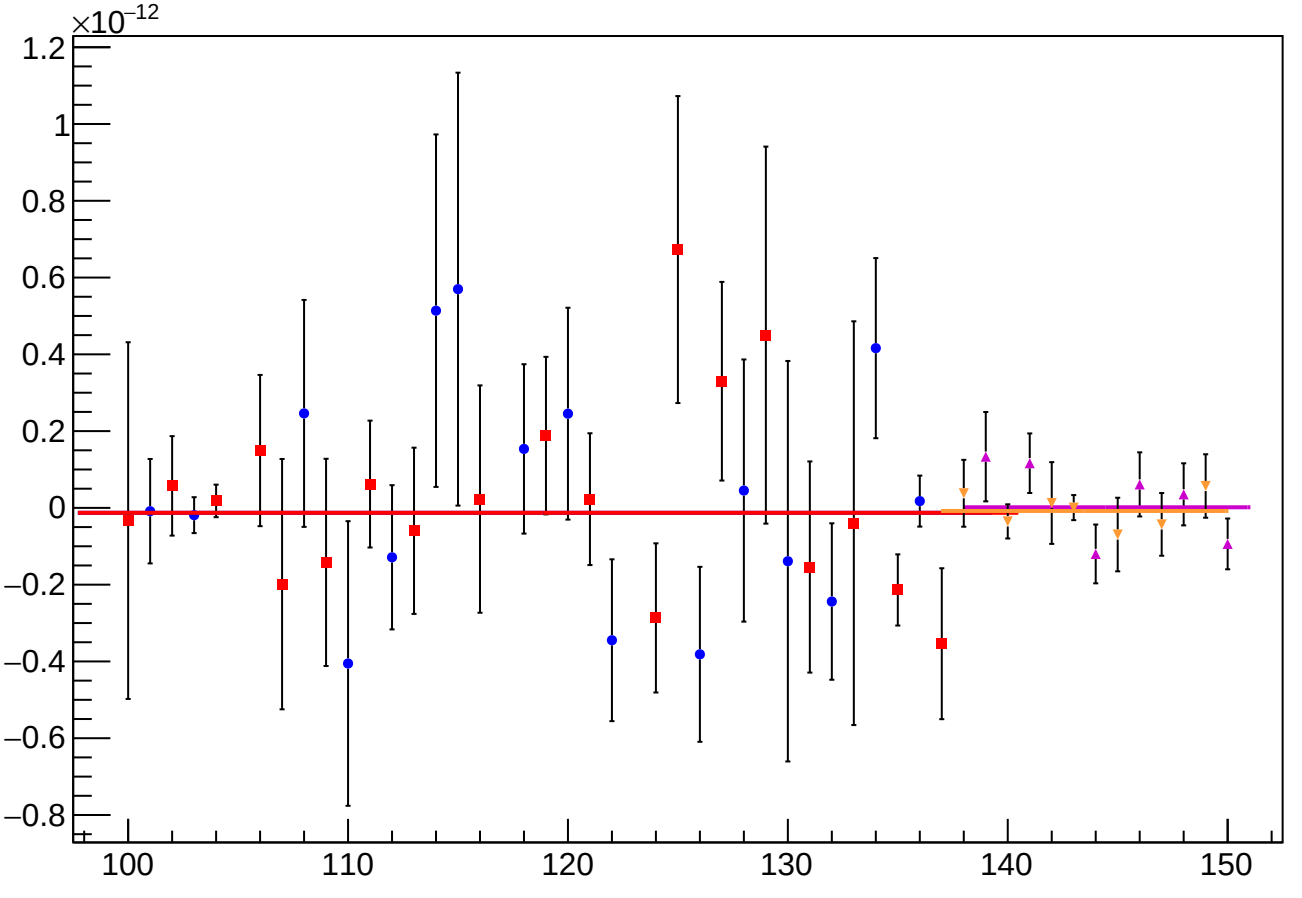
Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 192.751+/-0.042 $\chi^2$/NDF:3335724.2/21

Out: 178.061+/-0.042 $\chi^2$/NDF:6084783.7/25

All: 185.338+/-0.030 $\chi^2$/NDF: 9480878.3/47

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:8.8/5

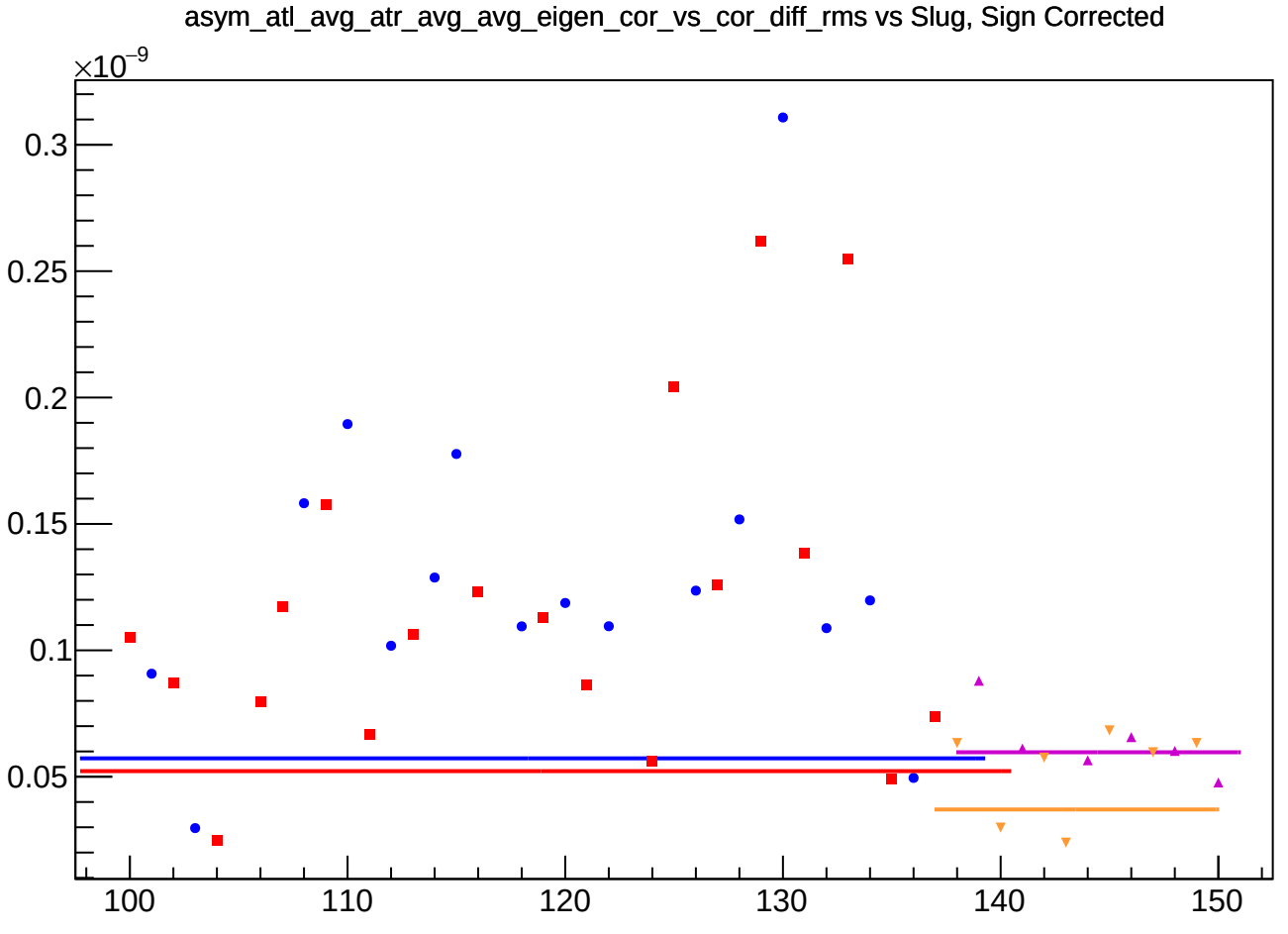
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 45.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2983121.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1200885.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3287828.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:197978.3/5

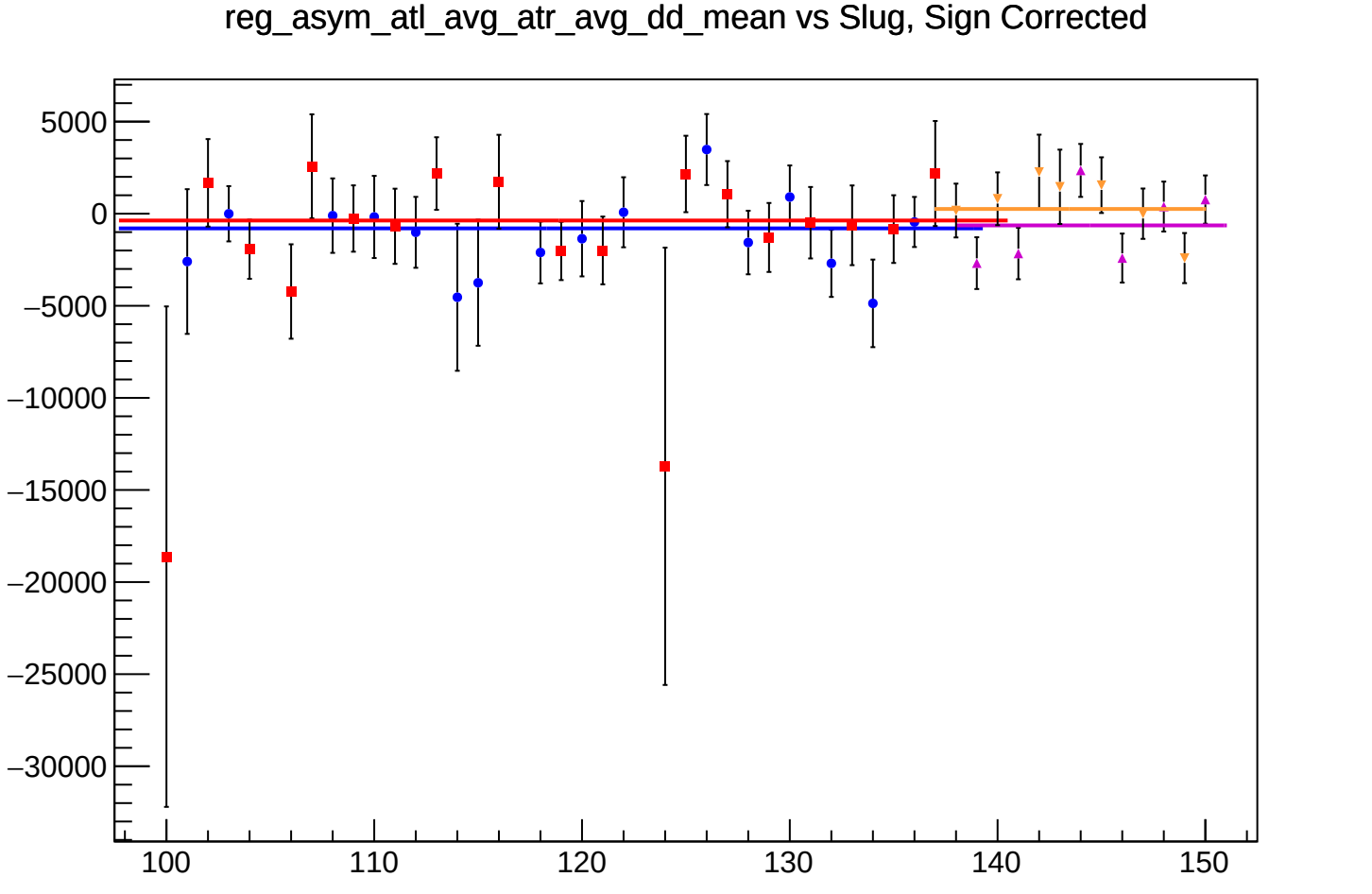
Left: 0.000+/-0.000 $\chi^2$/NDF: 2058732.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 6295515.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3186496.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4800589.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8615234.5/47




Right In: -797.285+/-487.453 $\chi^2$/NDF: 13.4/15

Left Out: 256.028+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -370.010+/-485.826 $\chi^2$/NDF: 15.6/18

Left In: -635.802+/-559.690 $\chi^2$/NDF:11.1/5

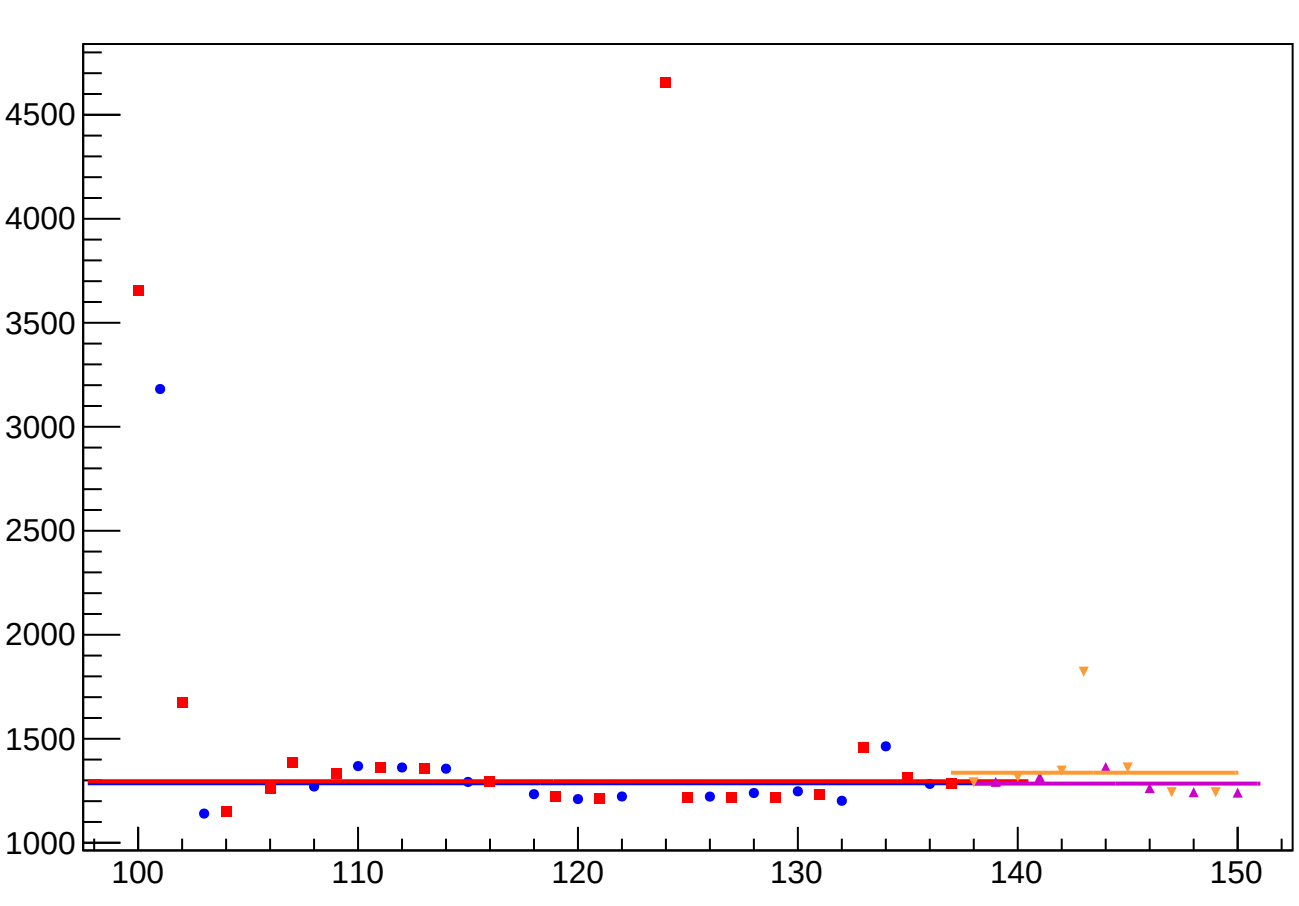
Left: -206.832+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -582.933+/-344.105 $\chi^2$/NDF: 29.4/34

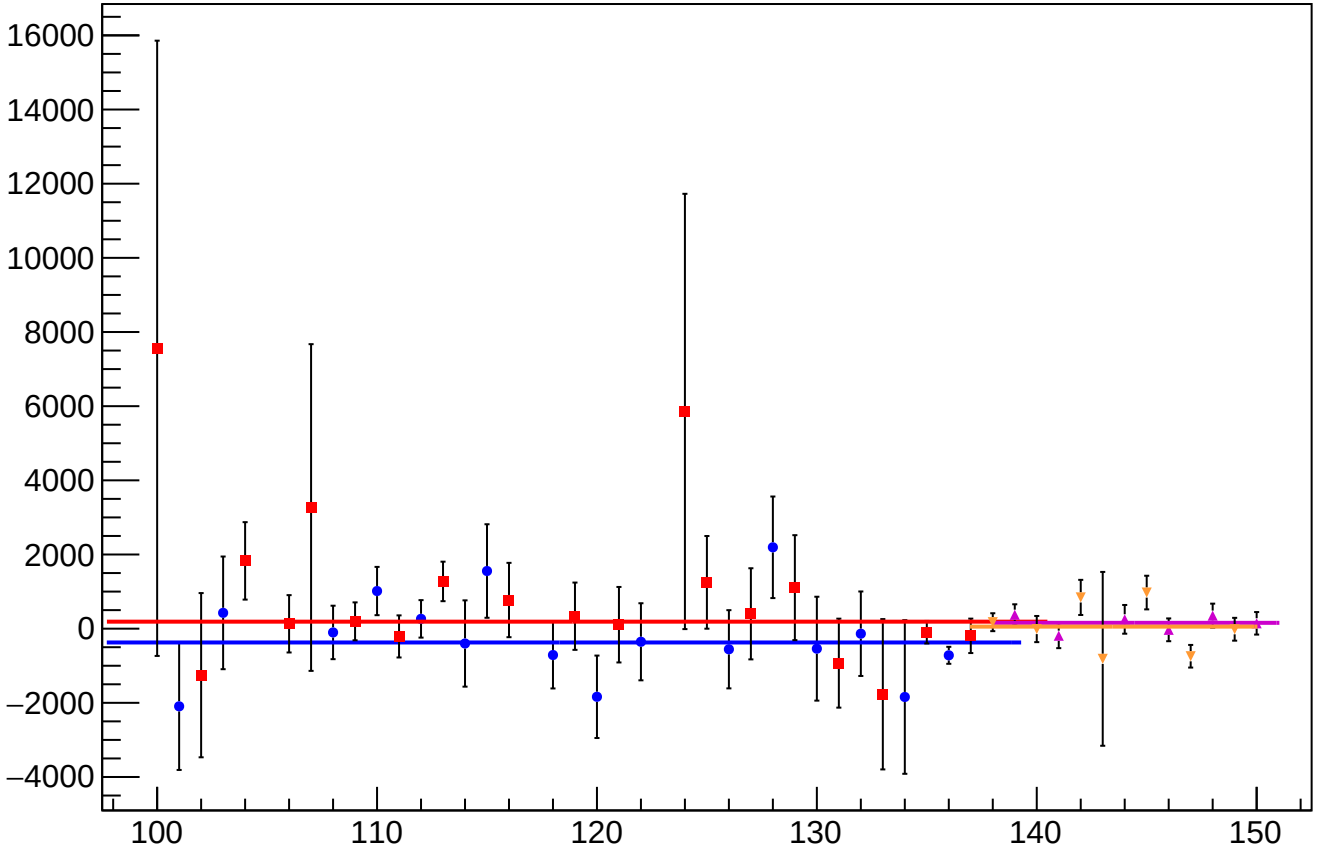
In: -727.630+/-367.586 $\chi^2$/NDF:24.6/21

Out: -112.599+/-372.798 $\chi^2$/NDF:22.4/25

All: -424.444+/-261.746 $\chi^2$/NDF: 48.3/47


reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected
4500
4000
3500
3000
2500
2000
1500
1000
100
110
120
130
140
150
Right In: 1286.097+/-0.345 χ²/NDF: 518126.9/15
Left Out: 1336.831+/-0.411 χ²/NDF:137890.3/6
Right Out: 1295.943+/-0.344 χ²/NDF: 328069.9/18
Left In: 1284.409+/-0.396 χ²/NDF:11826.9/5
Left: 1309.624+/-0.285 χ²/NDF: 158156.5/12
Right: 1291.036+/-0.243 χ²/NDF: 846606.2/34
In: 1285.369+/-0.260 χ²/NDF:529964.2/21
Out: 1312.755+/-0.264 χ²/NDF:471785.2/25
All: 1298.869+/-0.185 χ²/NDF: 1007221.8/47

asym_atl_avg_atr_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -372.325+/-168.204 $\chi^2$/NDF: 18.2/15

Left Out: 55.253+/-133.653 $\chi^2$/NDF:14.2/6

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 157.276+/-130.070 $\chi^2$/NDF:2.5/5

Left: 107.650+/-93.214 $\chi^2$/NDF: 17.0/12

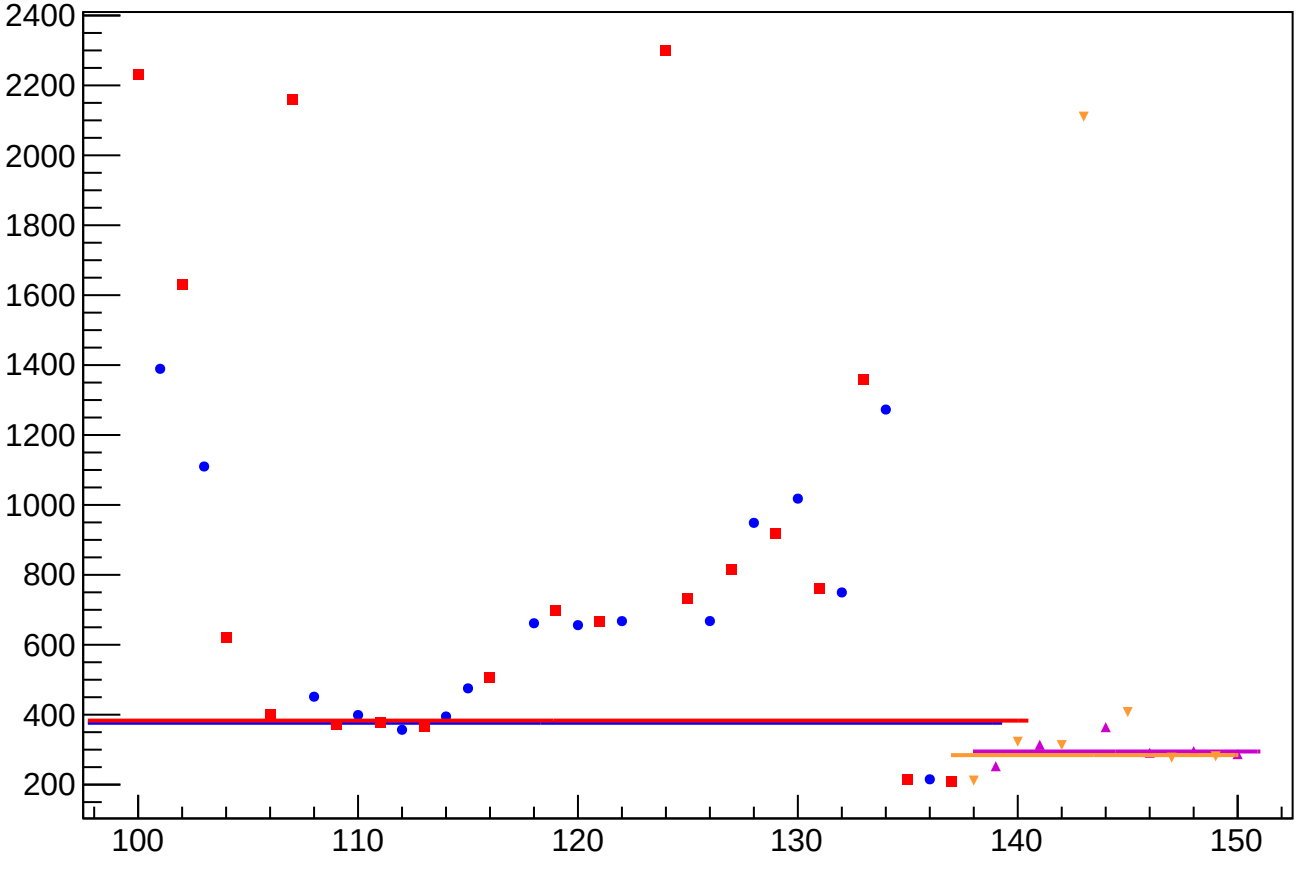
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: -40.905+/-102.894 $\chi^2$/NDF:26.8/21

Out: 106.480+/-104.969 $\chi^2$/NDF:29.2/25

All: 31.317+/-73.480 $\chi^2$/NDF: 57.0/47

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 376.893+/-0.119 $\chi^2$/NDF: 4190194.7/15

Left Out: 284.379+/-0.095 $\chi^2$/NDF:1575530.1/6

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 294.720+/-0.092 $\chi^2$/NDF:117258.5/5

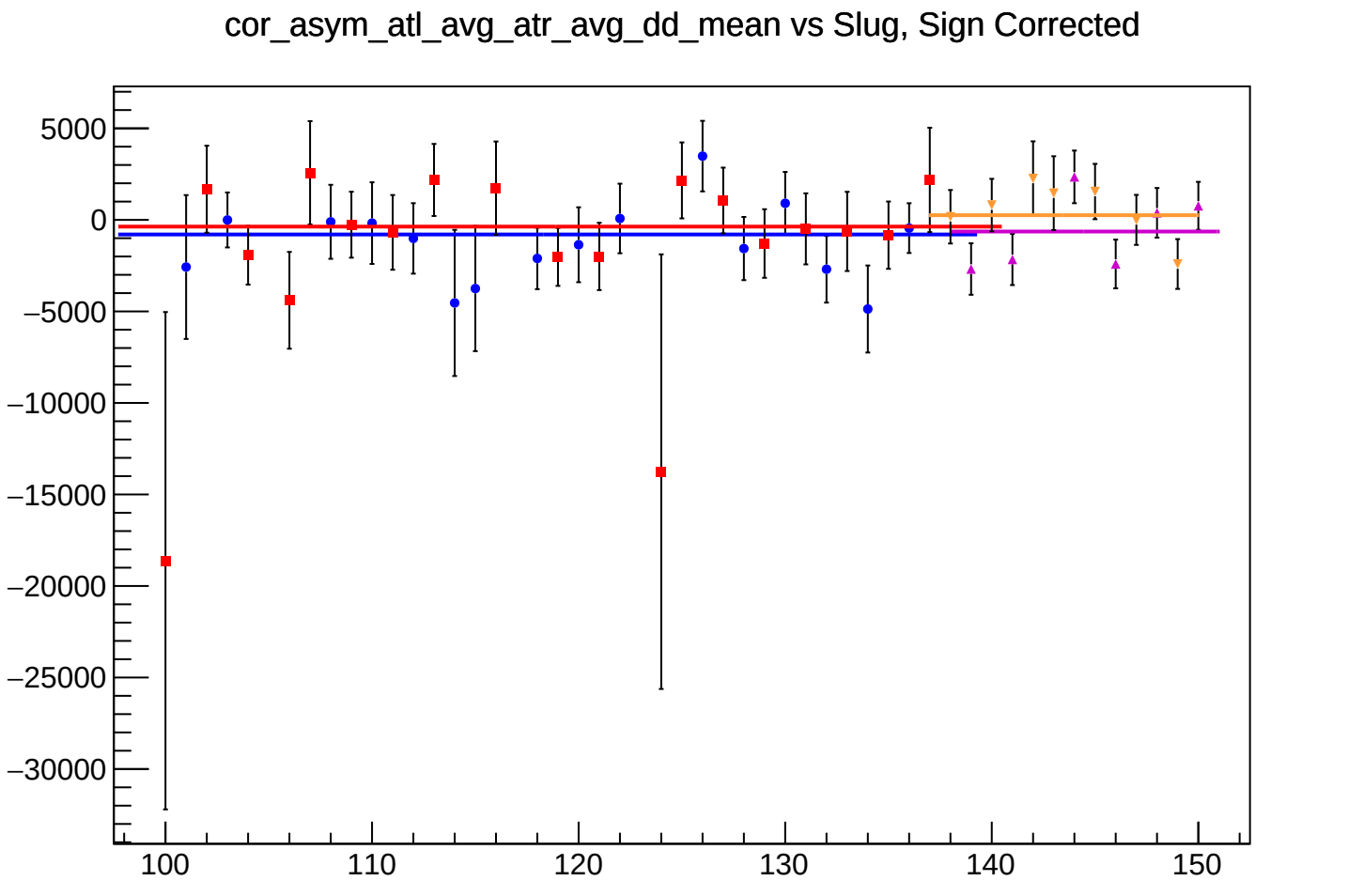
Left: 289.690+/-0.066 $\chi^2$/NDF: 1698938.1/12

Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

In: 325.470+/-0.073 $\chi^2$/NDF:4606157.7/21

Out: 322.196+/-0.074 $\chi^2$/NDF:6047537.6/25

All: 323.866+/-0.052 $\chi^2$/NDF: 10654687.2/47




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: 256.045+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -635.849+/-559.690 $\chi^2$/NDF:11.1/5

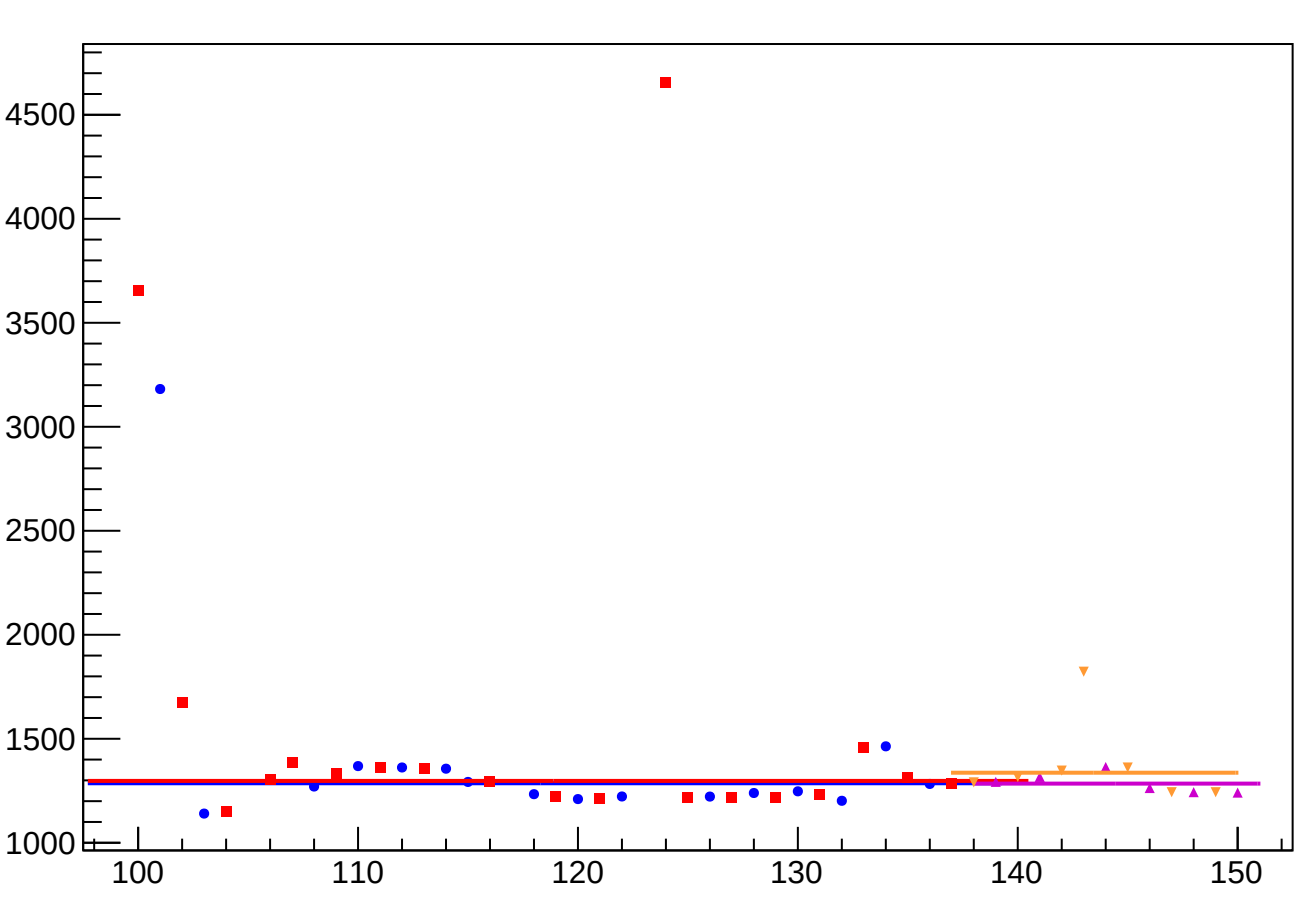
Left: -206.849+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -727.422+/-367.586 $\chi^2$/NDF:24.6/21

Out: -110.775+/-373.034 $\chi^2$/NDF:22.4/25

All: -423.634+/-261.827 $\chi^2$/NDF: 48.4/47




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1336.831+/-0.411 $\chi^2$/NDF:137890.3/6

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1284.409+/-0.396 $\chi^2$/NDF:11826.9/5

Left: 1309.624+/-0.285 $\chi^2$/NDF: 158156.5/12

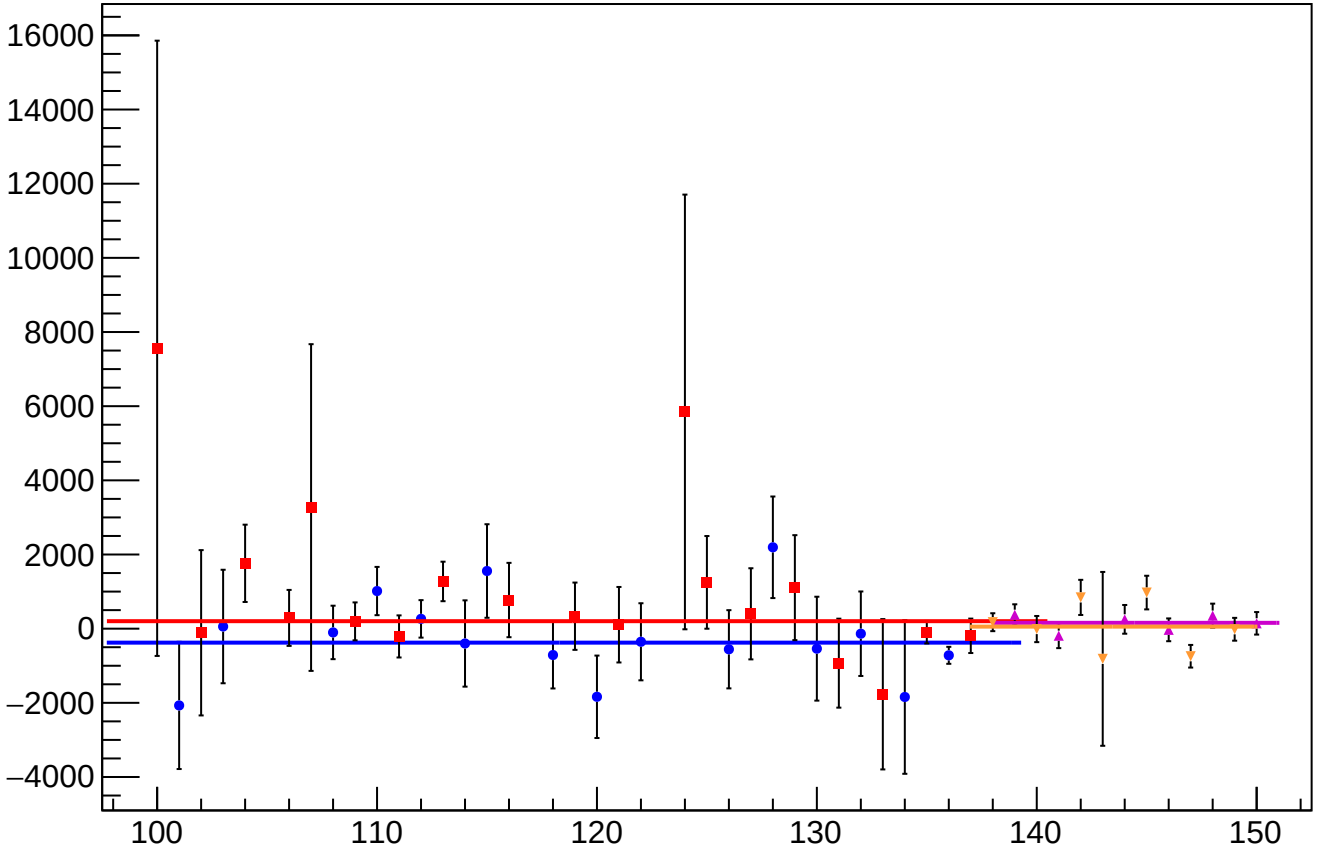
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1285.369+/-0.260 $\chi^2$/NDF:529965.6/21

Out: 1313.630+/-0.264 $\chi^2$/NDF:471046.1/25

All: 1299.291+/-0.185 $\chi^2$/NDF: 1006835.7/47

asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: 55.218+/-133.658 $\chi^2$/NDF:14.2/6

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 157.327+/-130.068 $\chi^2$/NDF:2.5/5

Left: 107.662+/-93.216 $\chi^2$/NDF: 16.9/12

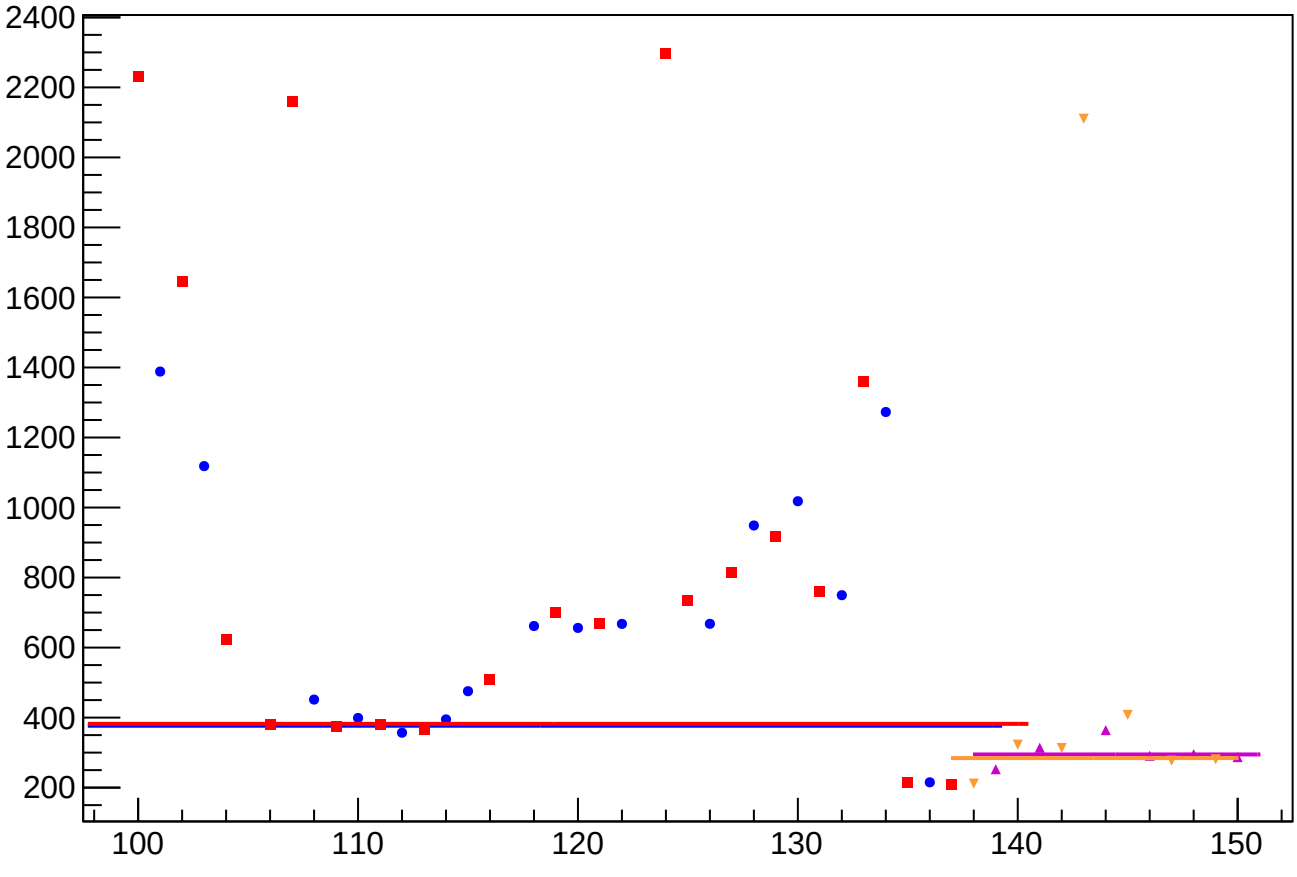
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -42.505+/-102.898 $\chi^2$/NDF:26.7/21

Out: 111.600+/-104.924 $\chi^2$/NDF:28.7/25

All: 33.045+/-73.466 $\chi^2$/NDF: 56.5/47

asym_atl_avg_atr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 284.390+/-0.095 $\chi^2$/NDF:1575536.7/6

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 294.717+/-0.092 $\chi^2$/NDF:117243.7/5

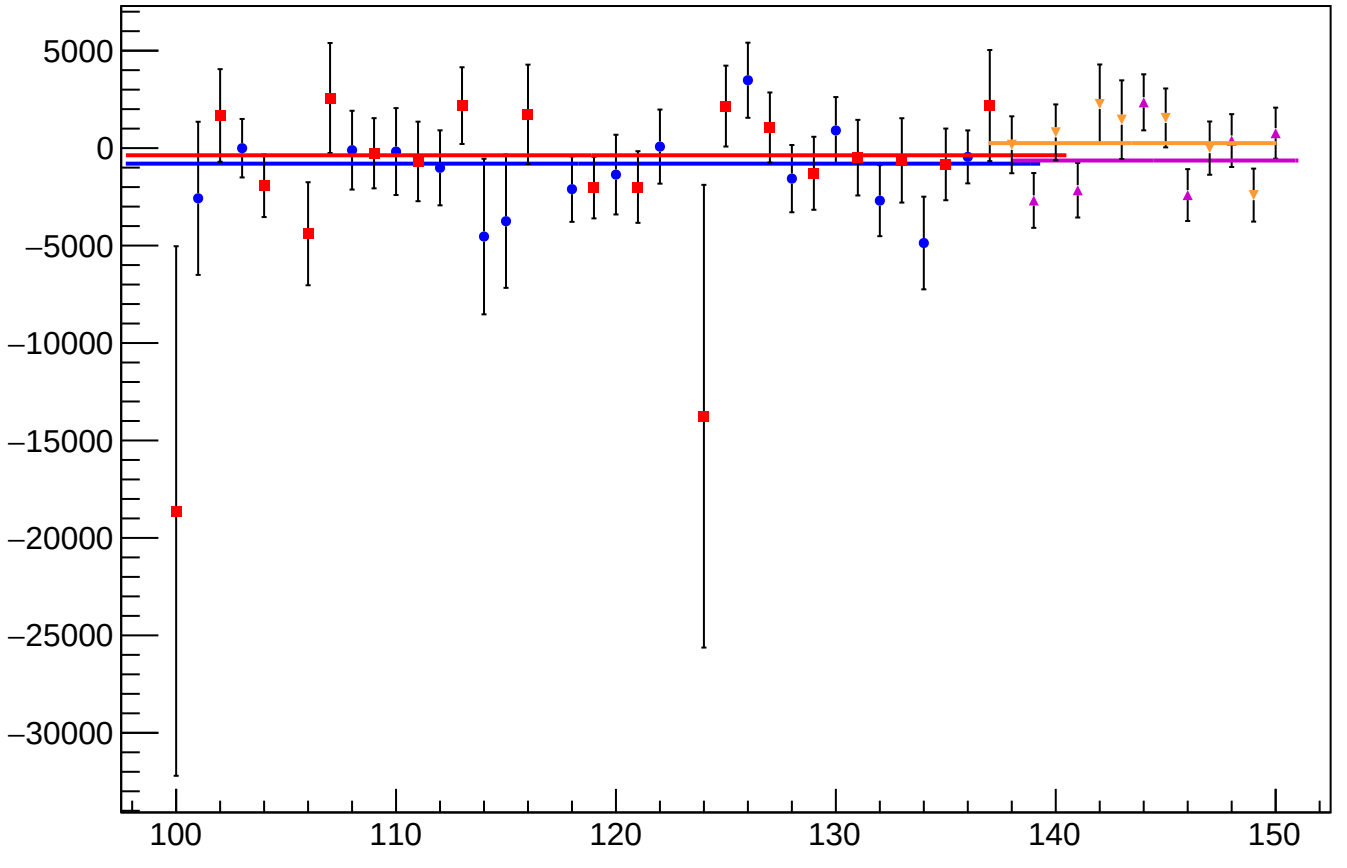
Left: 289.694+/-0.066 $\chi^2$/NDF: 1698913.2/12

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 325.460+/-0.073 $\chi^2$/NDF:4609193.2/21

Out: 321.899+/-0.074 $\chi^2$/NDF:6045606.2/25

All: 323.714+/-0.052 $\chi^2$/NDF: 10655973.2/47




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: 256.045+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -635.849+/-559.690 $\chi^2$/NDF:11.1/5

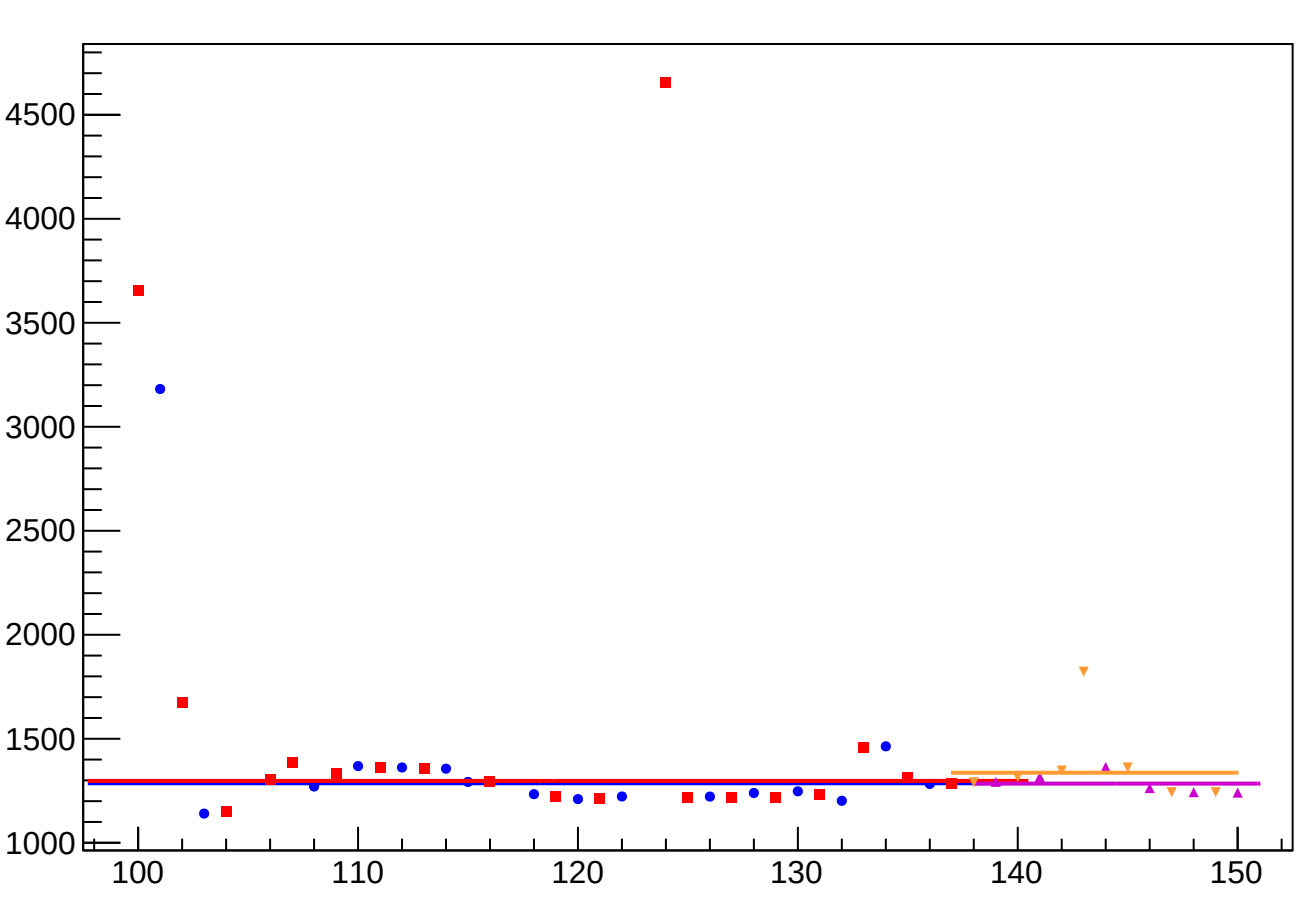
Left: -206.849+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -727.422+/-367.586 $\chi^2$/NDF:24.6/21

Out: -110.775+/-373.034 $\chi^2$/NDF:22.4/25

All: -423.634+/-261.827 $\chi^2$/NDF: 48.4/47




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1336.831+/-0.411 $\chi^2$/NDF:137890.3/6

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1284.409+/-0.396 $\chi^2$/NDF:11826.9/5

Left: 1309.624+/-0.285 $\chi^2$/NDF: 158156.5/12

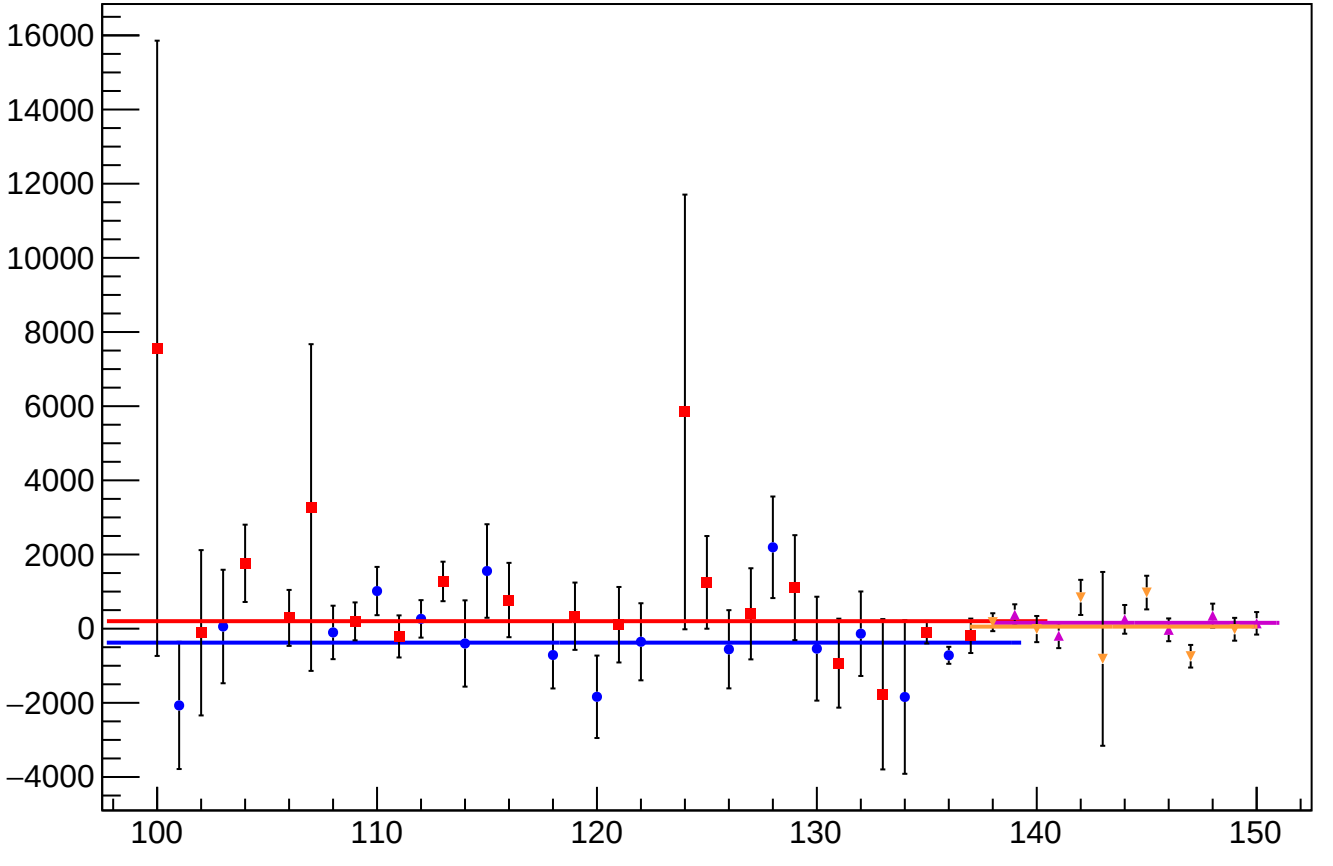
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1285.369+/-0.260 $\chi^2$/NDF:529965.6/21

Out: 1313.630+/-0.264 $\chi^2$/NDF:471046.1/25

All: 1299.291+/-0.185 $\chi^2$/NDF: 1006835.7/47

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: 55.218+/-133.658 $\chi^2$/NDF:14.2/6

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 157.327+/-130.068 $\chi^2$/NDF:2.5/5

Left: 107.662+/-93.216 $\chi^2$/NDF: 16.9/12

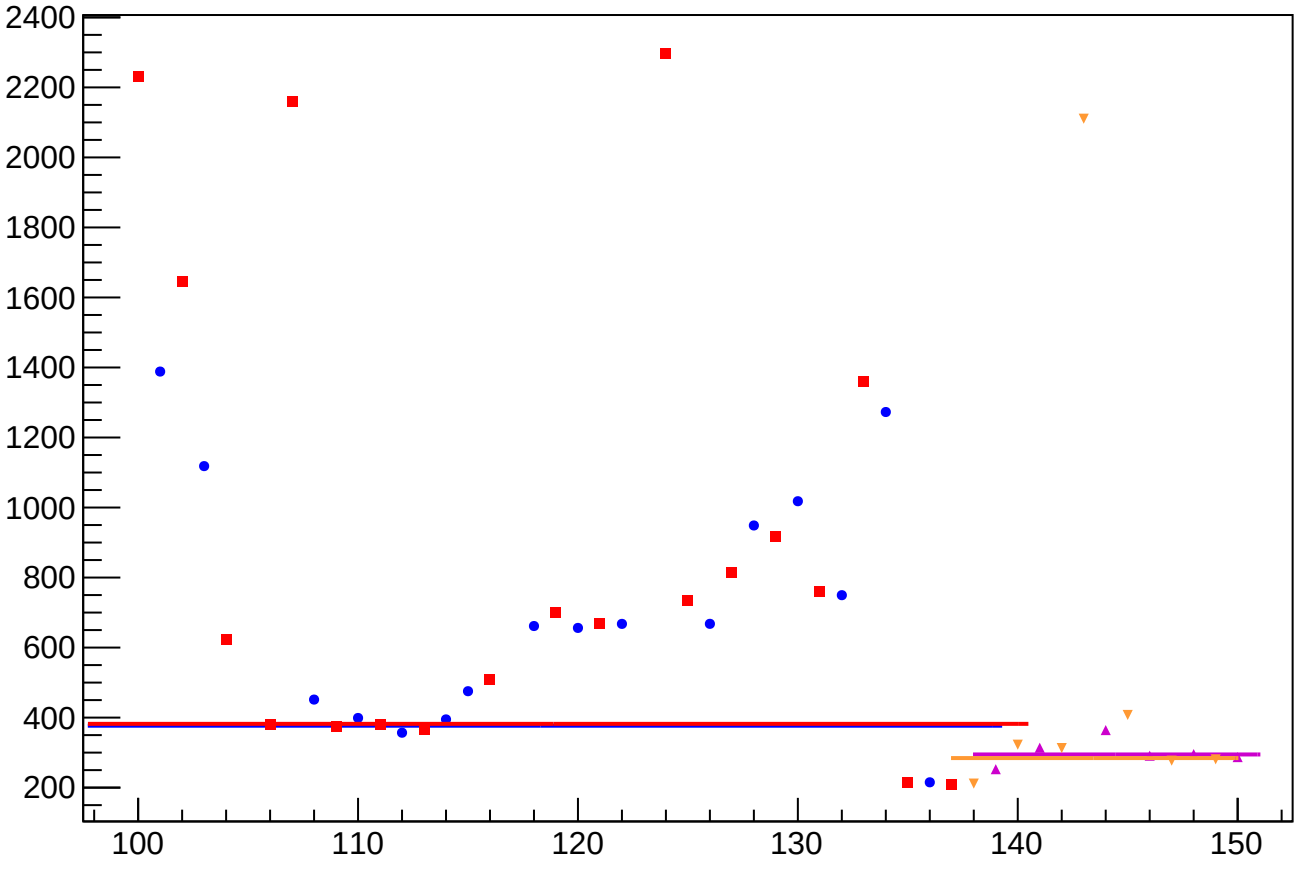
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -42.505+/-102.898 $\chi^2$/NDF:26.7/21

Out: 111.600+/-104.924 $\chi^2$/NDF:28.7/25

All: 33.045+/-73.466 $\chi^2$/NDF: 56.5/47

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 284.390+/-0.095 $\chi^2$/NDF:1575536.7/6

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 294.717+/-0.092 $\chi^2$/NDF:117243.7/5

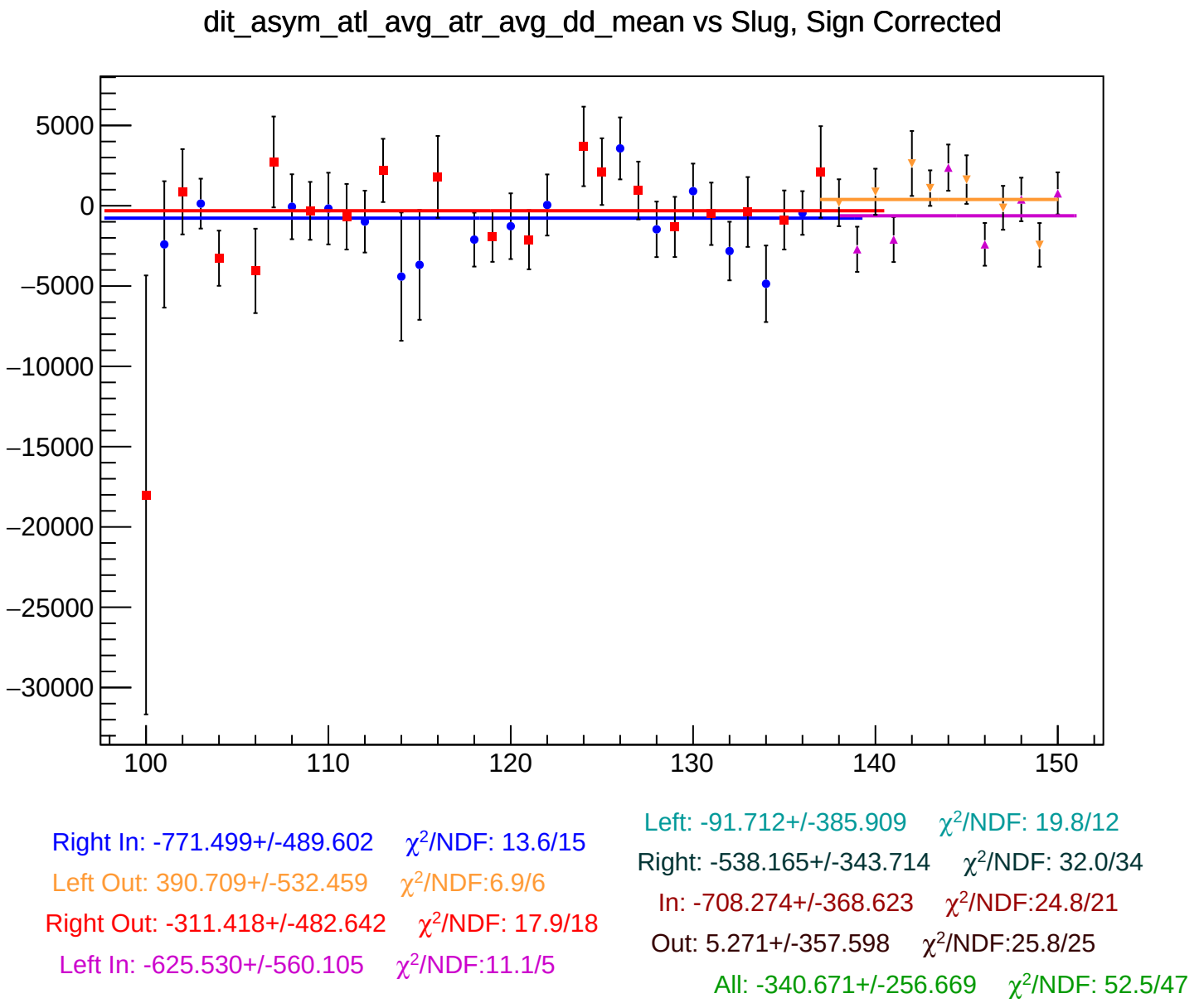
Left: 289.694+/-0.066 $\chi^2$/NDF: 1698913.2/12

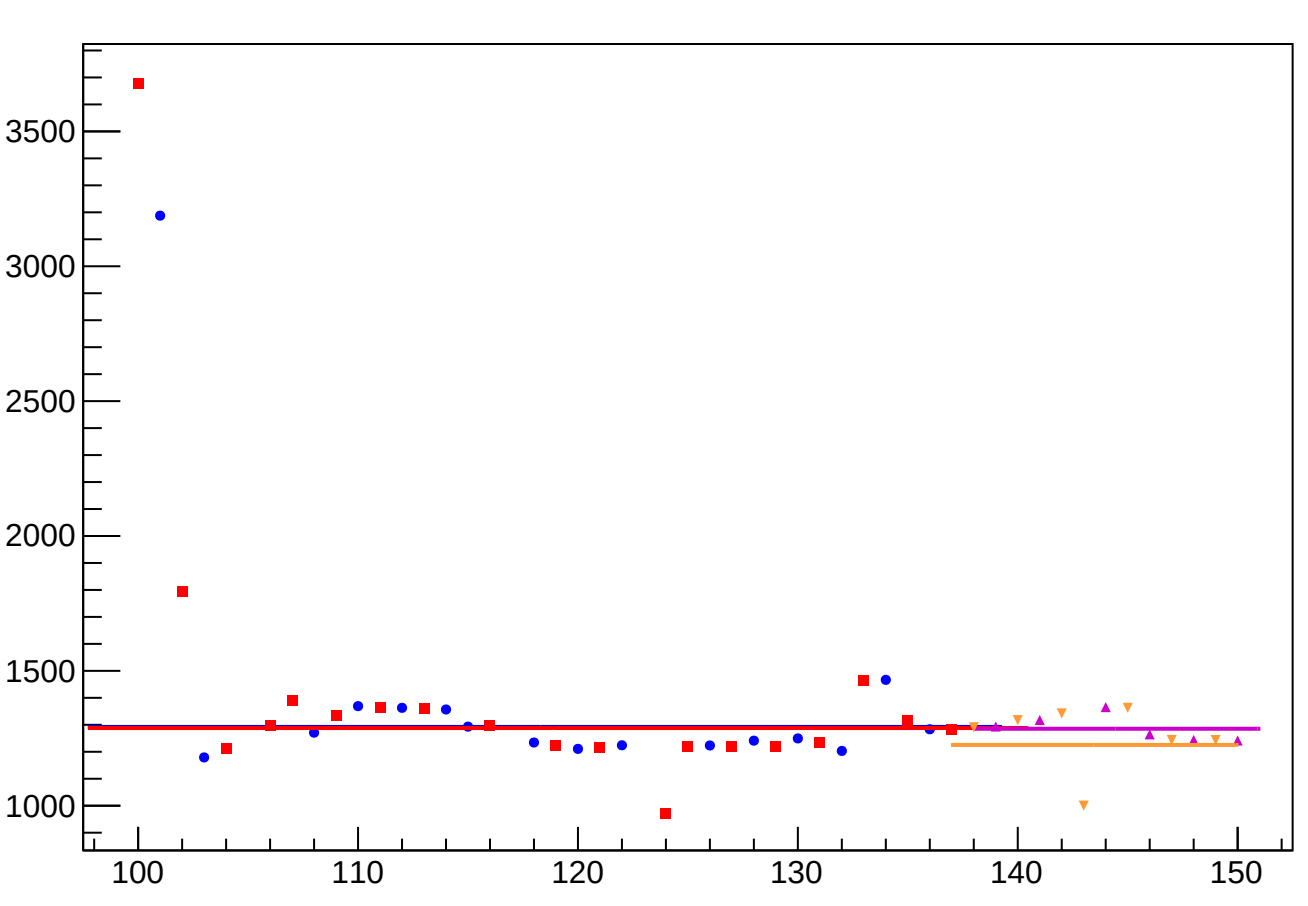
Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 325.460+/-0.073 $\chi^2$/NDF:4609193.2/21

Out: 321.899+/-0.074 $\chi^2$/NDF:6045606.2/25

All: 323.714+/-0.052 $\chi^2$/NDF: 10655973.2/47


dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
110
120
130
140
150
Right In: -771.499+/-489.602 χ²/NDF: 13.6/15
Left Out: 390.709+/-532.459 χ²/NDF:6.9/6
Right Out: -311.418+/-482.642 χ²/NDF: 17.9/18
Left In: -625.530+/-560.105 χ²/NDF:11.1/5
Left: -91.712+/-385.909 χ²/NDF: 19.8/12
Right: -538.165+/-343.714 χ²/NDF: 32.0/34
In: -708.274+/-368.623 χ²/NDF:24.8/21
Out: 5.271+/-357.598 χ²/NDF:25.8/25
All: -340.671+/-256.669 χ²/NDF: 52.5/47




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1225.386+/-0.377 $\chi^2$/NDF:118799.5/6

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1285.350+/-0.396 $\chi^2$/NDF:11910.9/5

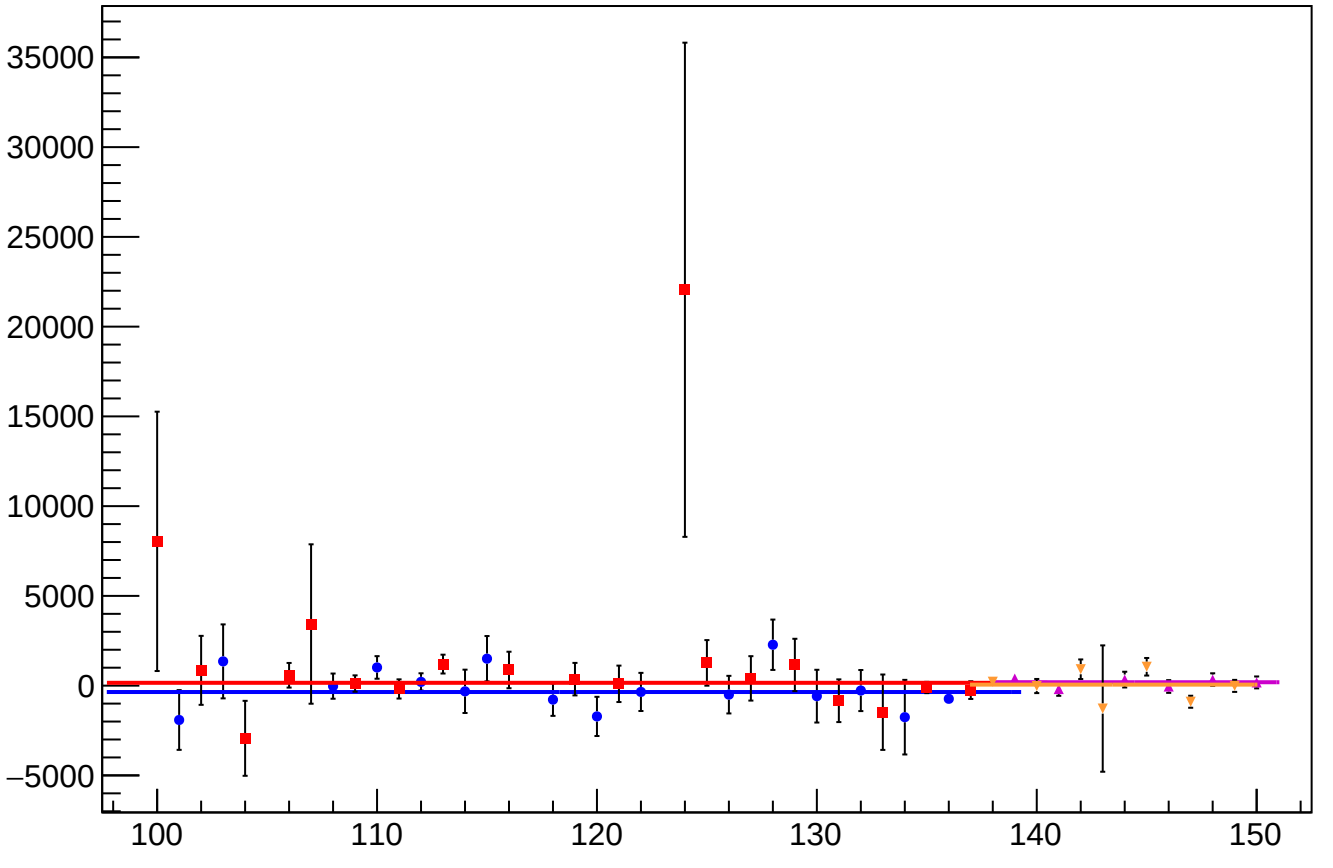
Left: 1253.852+/-0.273 $\chi^2$/NDF: 142751.8/12

Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1289.141+/-0.261 $\chi^2$/NDF:521478.8/21

Out: 1259.752+/-0.253 $\chi^2$/NDF:343185.2/25

All: 1274.000+/-0.181 $\chi^2$/NDF: 871213.4/47




Right In: -355.226+/-169.971 $\chi^2$/NDF: 18.4/15

Left Out: 57.041+/-143.217 $\chi^2$/NDF:15.4/6

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 189.832+/-140.942 $\chi^2$/NDF:2.3/5

Left: 124.499+/-100.456 $\chi^2$/NDF: 18.1/12

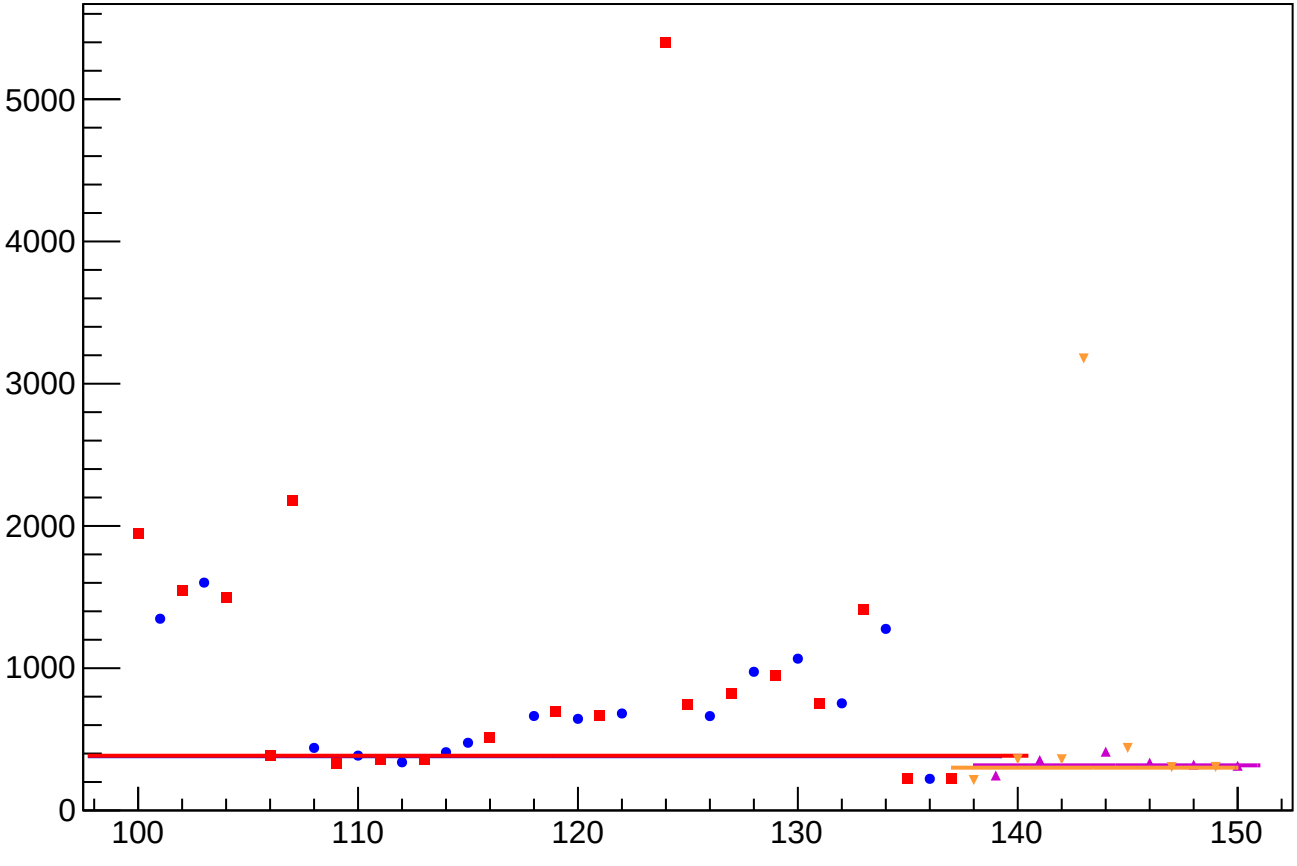
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: -32.247+/-108.494 $\chi^2$/NDF:26.8/21

Out: 99.015+/-109.439 $\chi^2$/NDF:31.4/25

All: 32.815+/-77.049 $\chi^2$/NDF: 59.0/47

asym_atl_avg_atr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.349+/-0.120 $\chi^2$/NDF: 4317922.6/15

Left Out: 300.837+/-0.101 $\chi^2$/NDF:1822142.5/6

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 317.095+/-0.100 $\chi^2$/NDF:254082.3/5

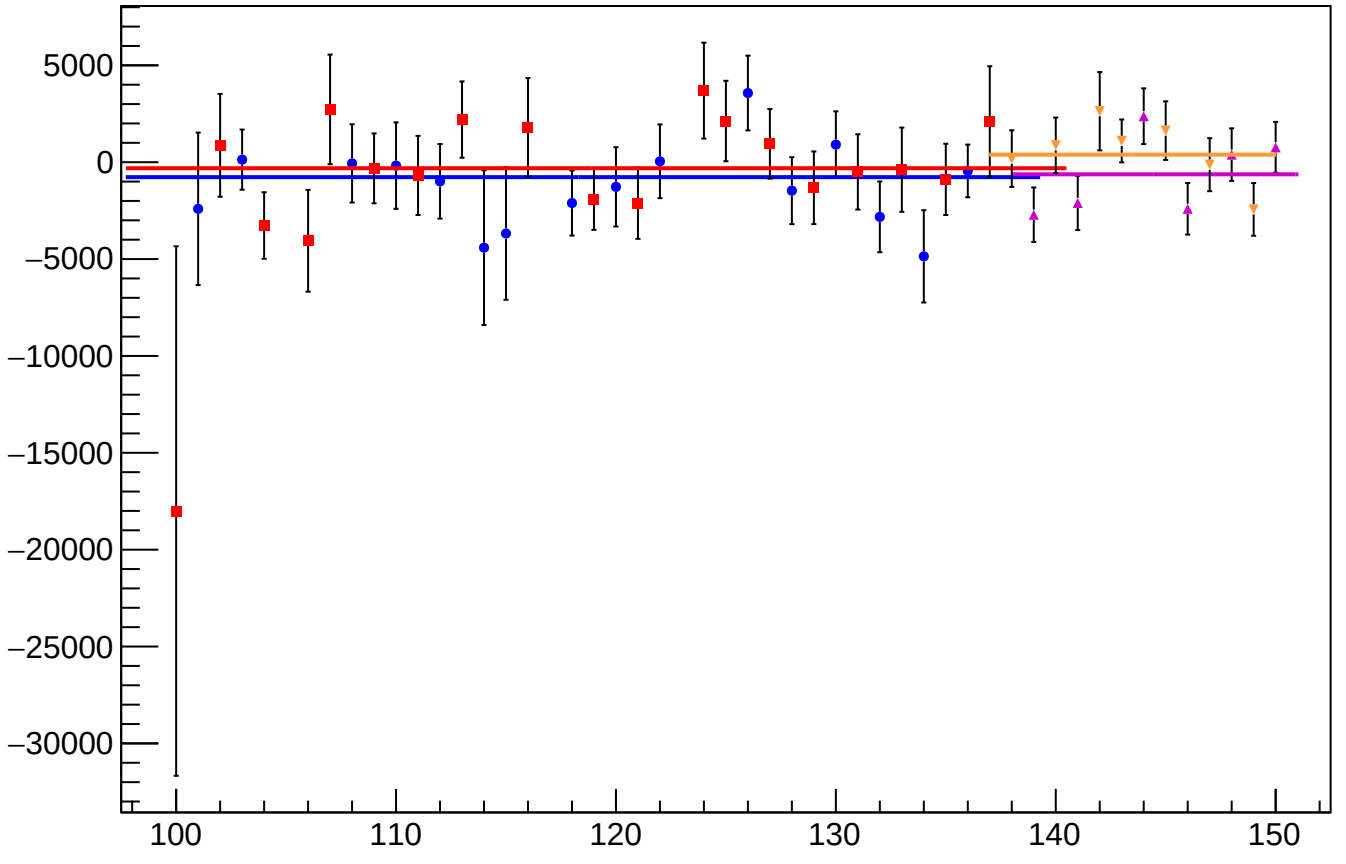
Left: 309.096+/-0.071 $\chi^2$/NDF: 2089317.7/12

Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 343.275+/-0.077 $\chi^2$/NDF:4741368.3/21

Out: 335.709+/-0.077 $\chi^2$/NDF:6667347.3/25

All: 339.525+/-0.054 $\chi^2$/NDF: 11413535.7/47




Right In: -771.501+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: 390.709+/-532.459 $\chi^2$/NDF:6.9/6

Right Out: -311.419+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -625.526+/-560.105 $\chi^2$/NDF:11.1/5

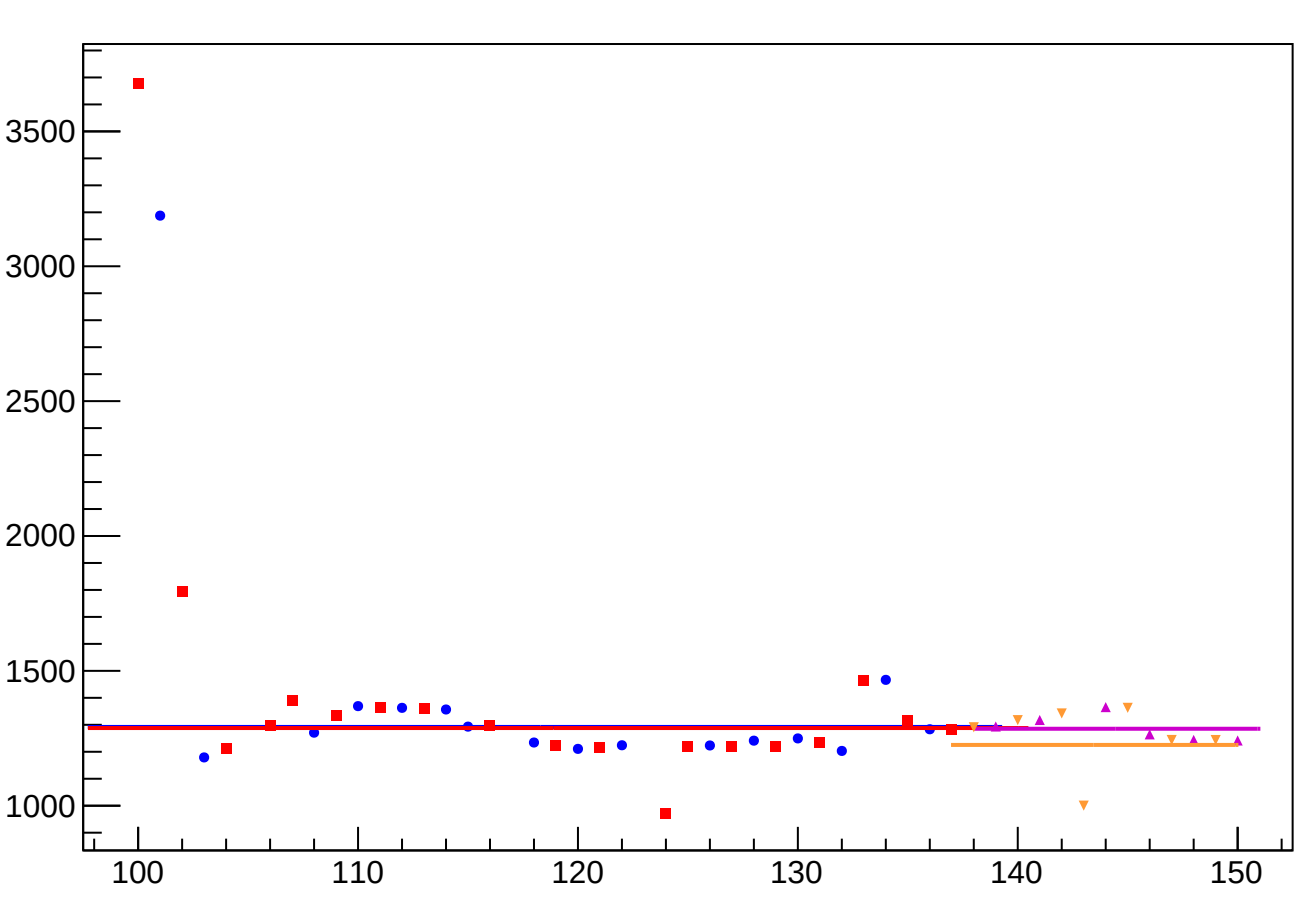
Left: -91.711+/-385.909 $\chi^2$/NDF: 19.8/12

Right: -538.167+/-343.714 $\chi^2$/NDF: 32.0/34

In: -708.274+/-368.623 $\chi^2$/NDF:24.8/21

Out: 5.270+/-357.598 $\chi^2$/NDF:25.8/25

All: -340.672+/-256.669 $\chi^2$/NDF: 52.5/47




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1225.386+/-0.377 $\chi^2$/NDF:118798.7/6

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1285.350+/-0.396 $\chi^2$/NDF:11911.0/5

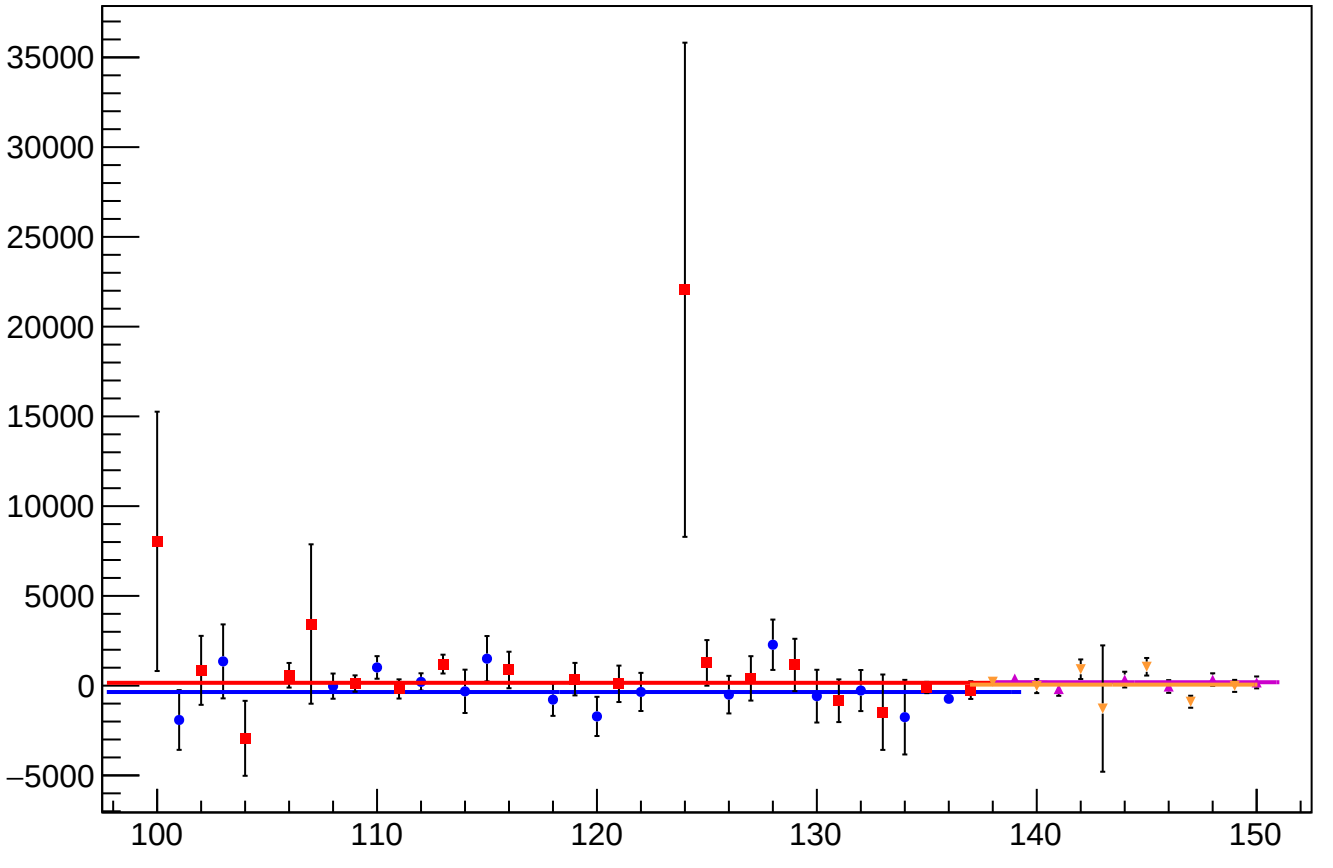
Left: 1253.852+/-0.273 $\chi^2$/NDF: 142751.0/12

Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1289.141+/-0.261 $\chi^2$/NDF:521478.9/21

Out: 1259.752+/-0.253 $\chi^2$/NDF:343184.6/25

All: 1274.001+/-0.181 $\chi^2$/NDF: 871212.7/47




Right In: -355.226+/-169.973 $\chi^2$/NDF: 18.4/15

Left Out: 57.035+/-143.220 $\chi^2$/NDF:15.4/6

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 189.833+/-140.944 $\chi^2$/NDF:2.3/5

Left: 124.498+/-100.457 $\chi^2$/NDF: 18.1/12

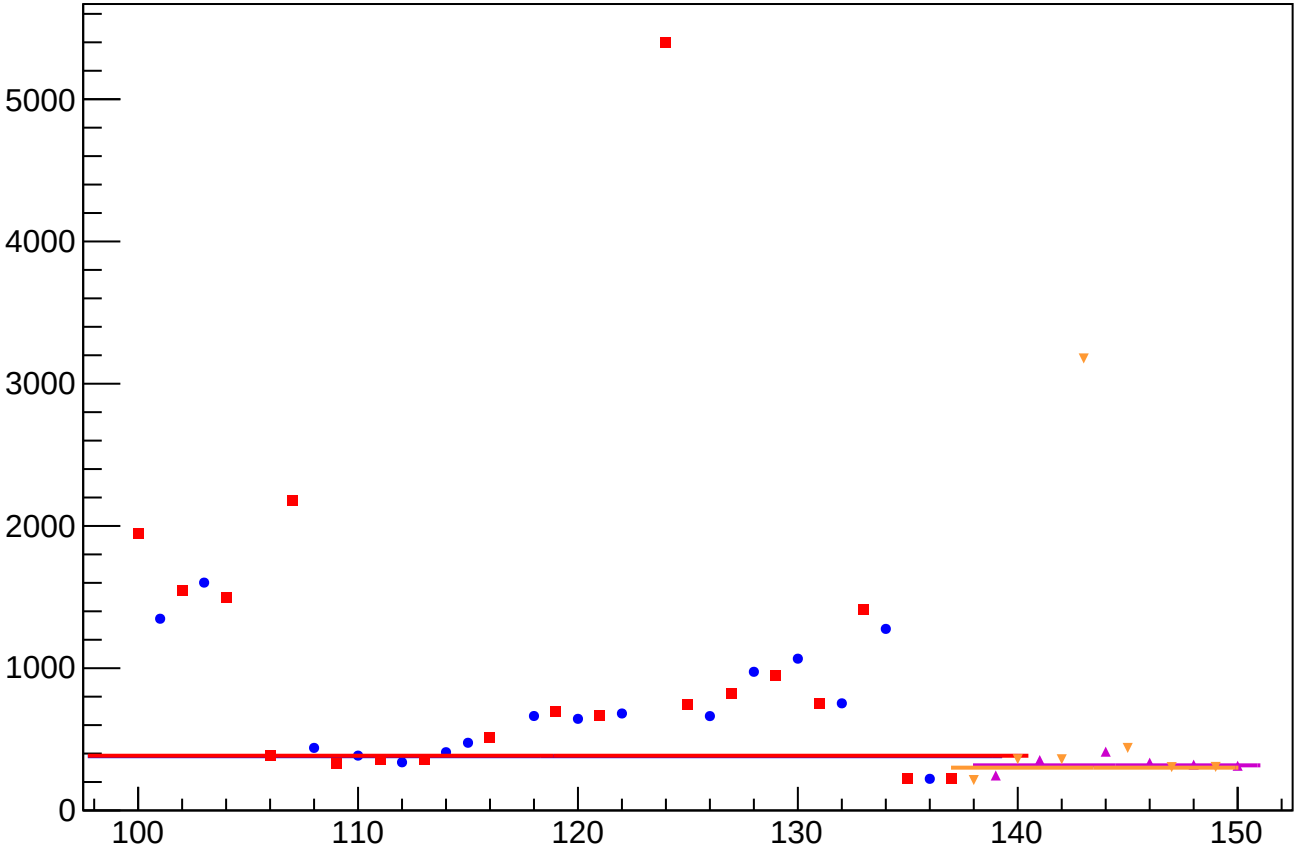
Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: -32.245+/-108.496 $\chi^2$/NDF:26.8/21

Out: 99.014+/-109.441 $\chi^2$/NDF:31.4/25

All: 32.815+/-77.050 $\chi^2$/NDF: 59.0/47

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.359+/-0.120 $\chi^2$/NDF: 4317737.3/15

Left Out: 300.845+/-0.101 $\chi^2$/NDF:1822040.2/6

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 317.100+/-0.100 $\chi^2$/NDF:254013.7/5

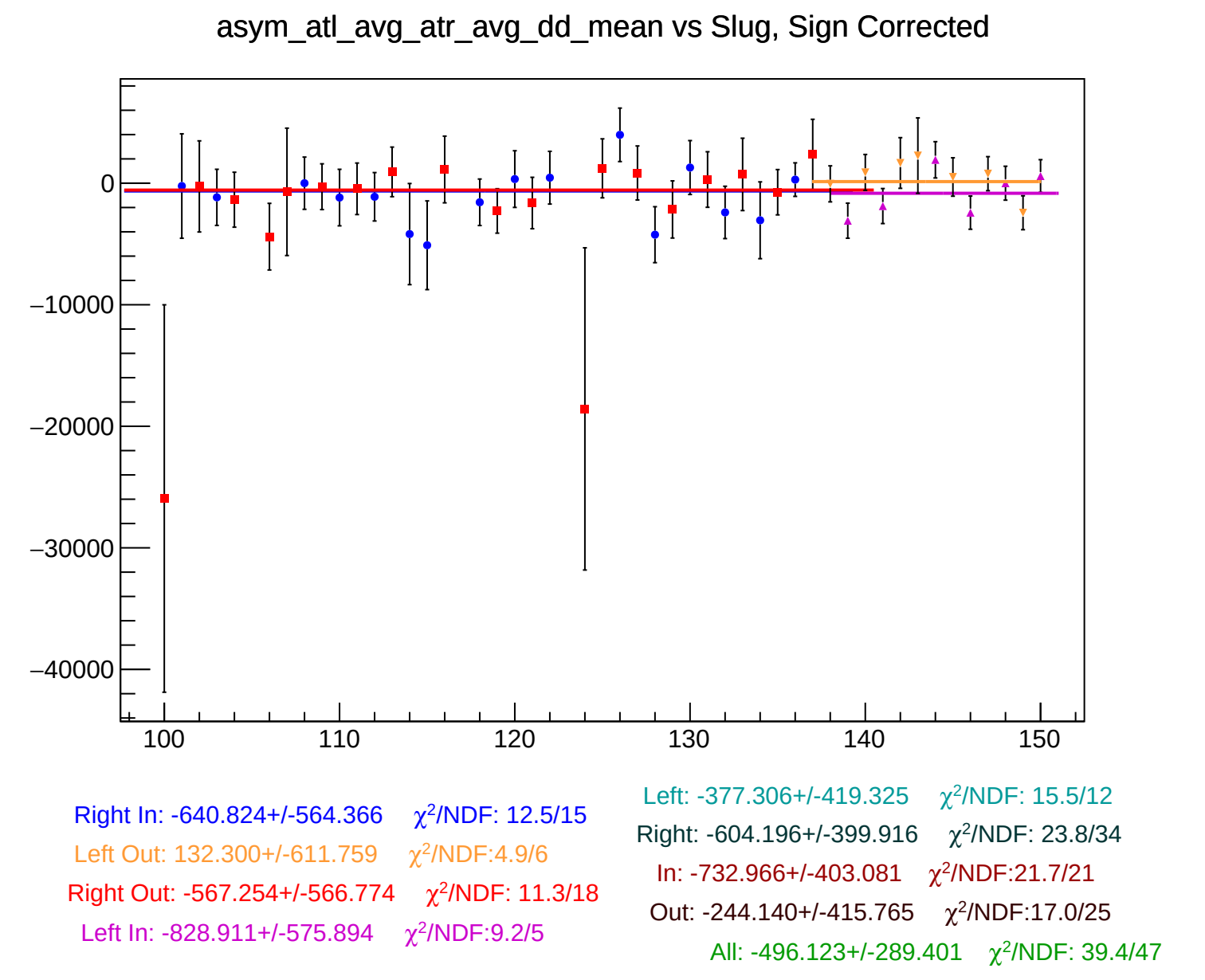
Left: 309.103+/-0.071 $\chi^2$/NDF: 2089141.9/12

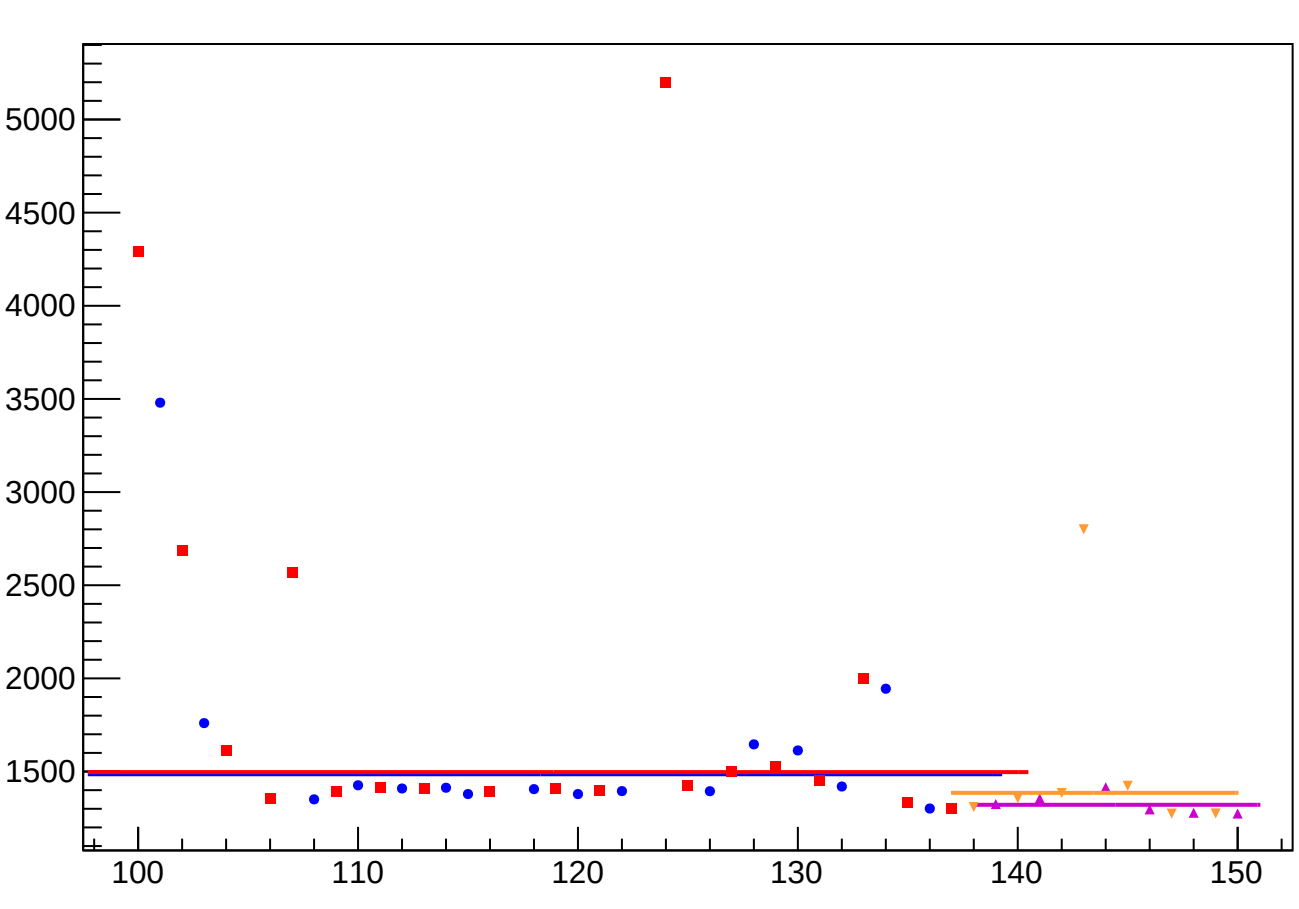
Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 343.282+/-0.077 $\chi^2$/NDF:4741134.4/21

Out: 335.717+/-0.077 $\chi^2$/NDF:6667094.4/25

All: 339.532+/-0.054 $\chi^2$/NDF: 11413047.3/47


asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: -640.824+/-564.366 χ²/NDF: 12.5/15
Left Out: 132.300+/-611.759 χ²/NDF:4.9/6
Right Out: -567.254+/-566.774 χ²/NDF: 11.3/18
Left In: -828.911+/-575.894 χ²/NDF:9.2/5
Left: -377.306+/-419.325 χ²/NDF: 15.5/12
Right: -604.196+/-399.916 χ²/NDF: 23.8/34
In: -732.966+/-403.081 χ²/NDF:21.7/21
Out: -244.140+/-415.765 χ²/NDF:17.0/25
All: -496.123+/-289.401 χ²/NDF: 39.4/47




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1385.641+/-0.433 $\chi^2$/NDF:448067.7/6

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1321.392+/-0.407 $\chi^2$/NDF:14037.0/5

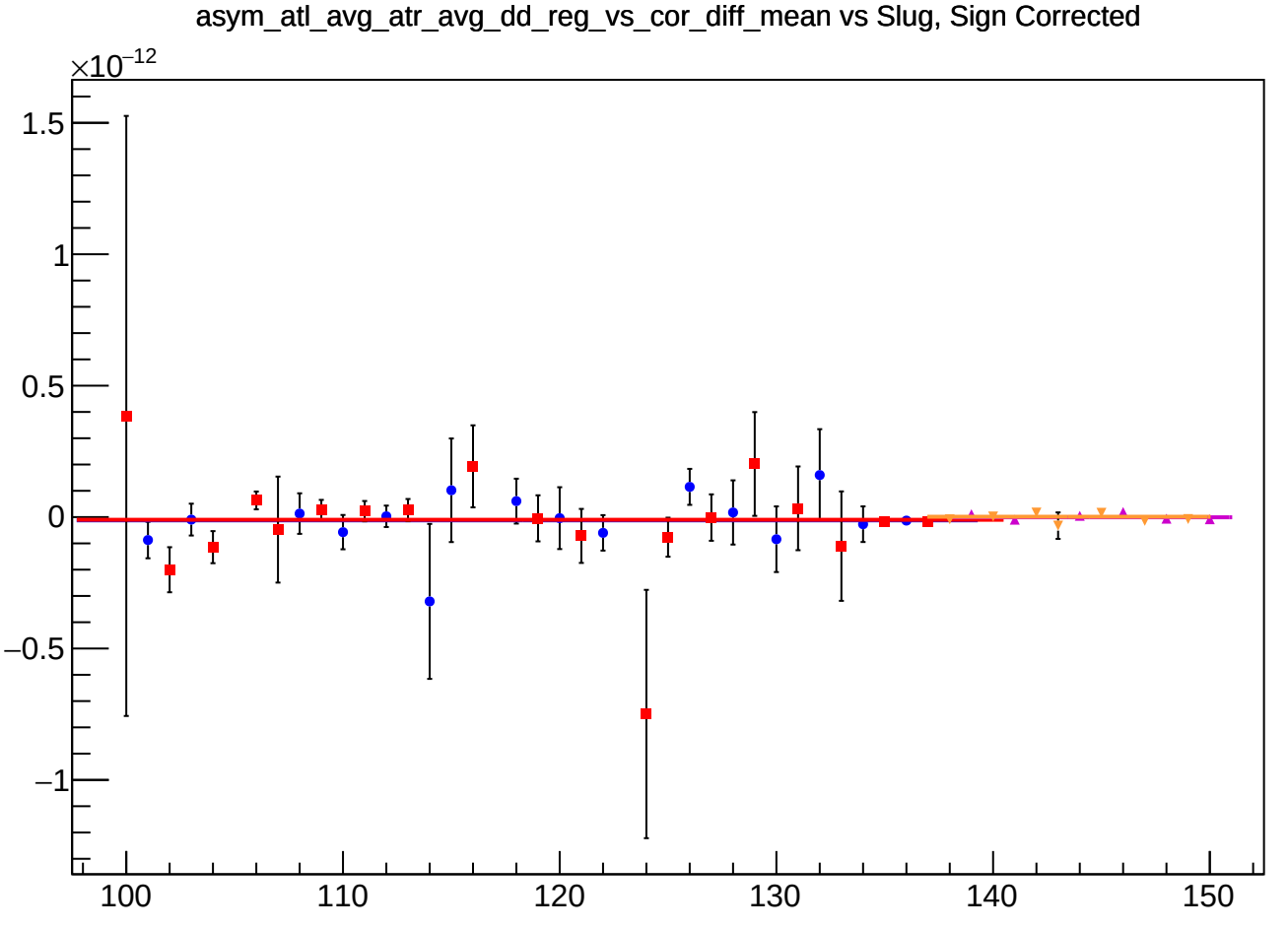
Left: 1351.578+/-0.297 $\chi^2$/NDF: 473800.1/12

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1405.039+/-0.285 $\chi^2$/NDF:681221.5/21

Out: 1445.493+/-0.294 $\chi^2$/NDF:1106935.7/25

All: 1424.639+/-0.205 $\chi^2$/NDF: 1797917.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.8/5

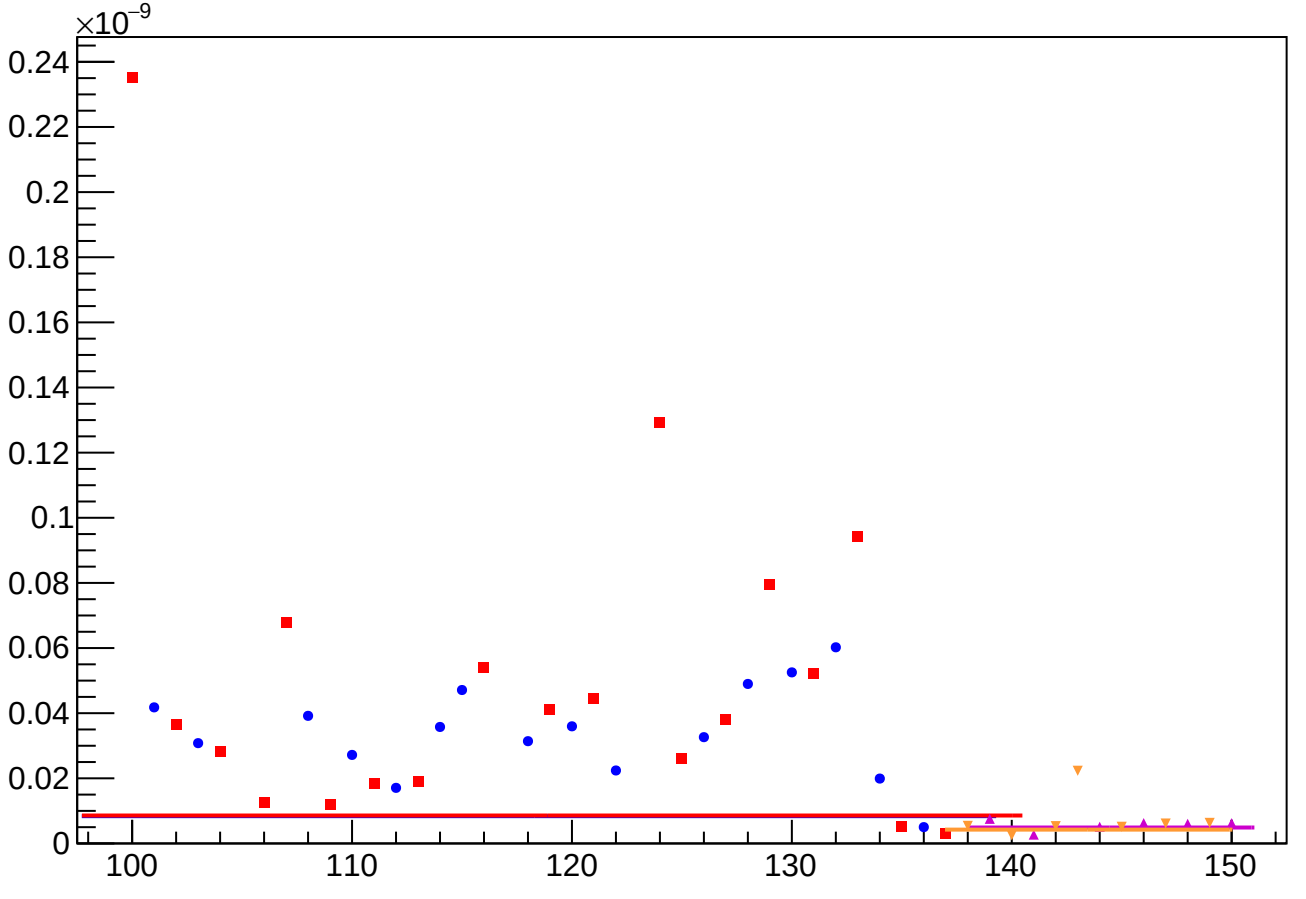
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 54.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3059657.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:713900.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3348571.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:497850.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1247941.3/12

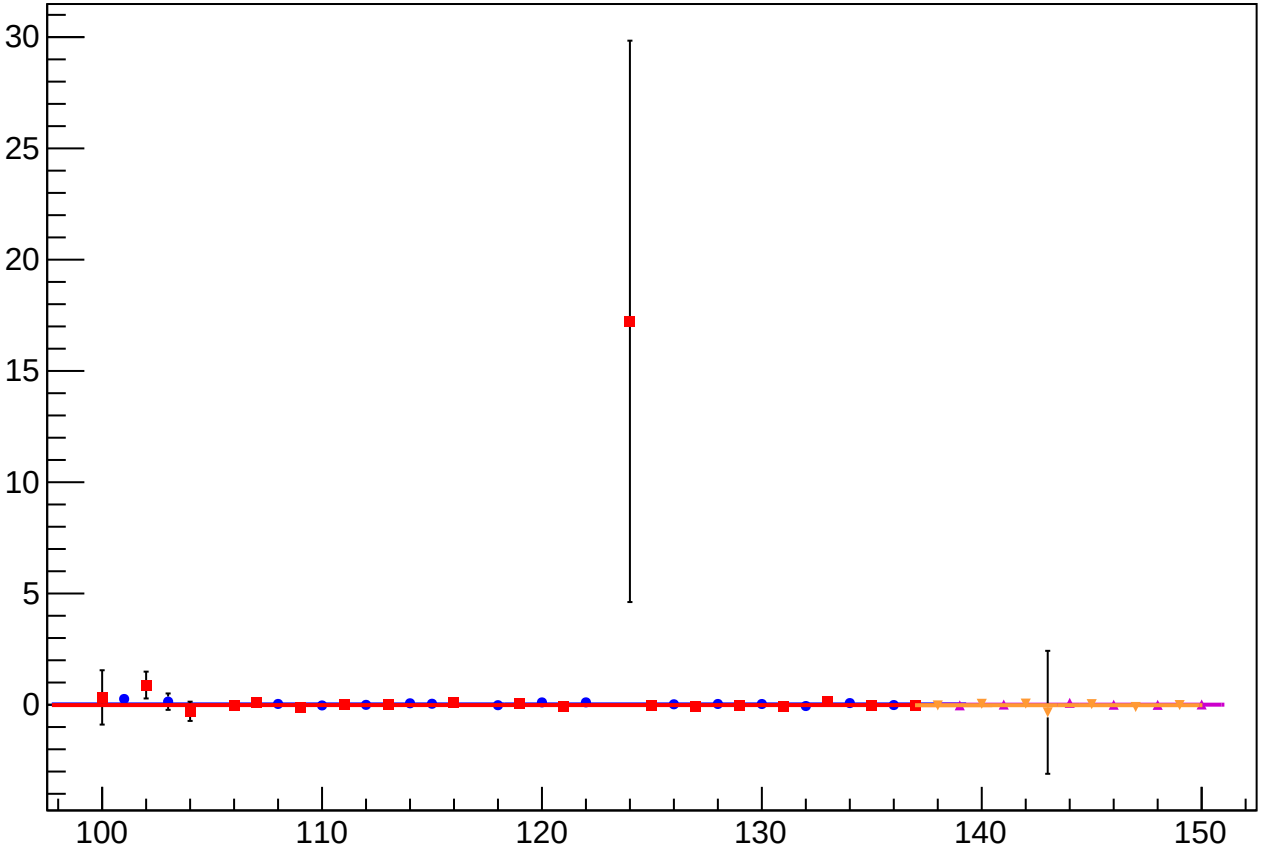
Right: 0.000+/-0.000 $\chi^2$/NDF: 6408892.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3918342.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4561709.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8524163.6/47

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

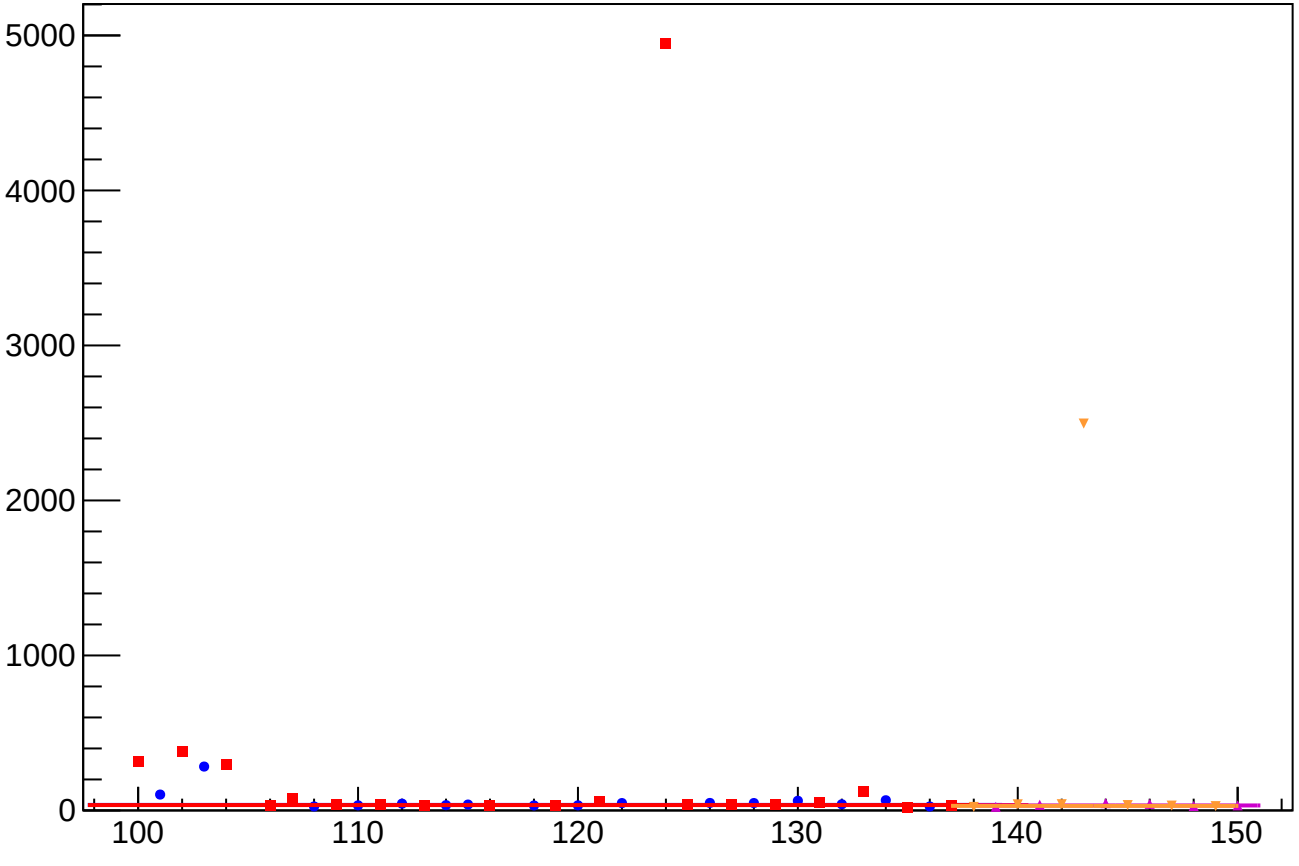
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905740.5/6

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.274+/-0.011 $\chi^2$/NDF:478490.9/5

Left: 30.920+/-0.008 $\chi^2$/NDF: 2413636.1/12

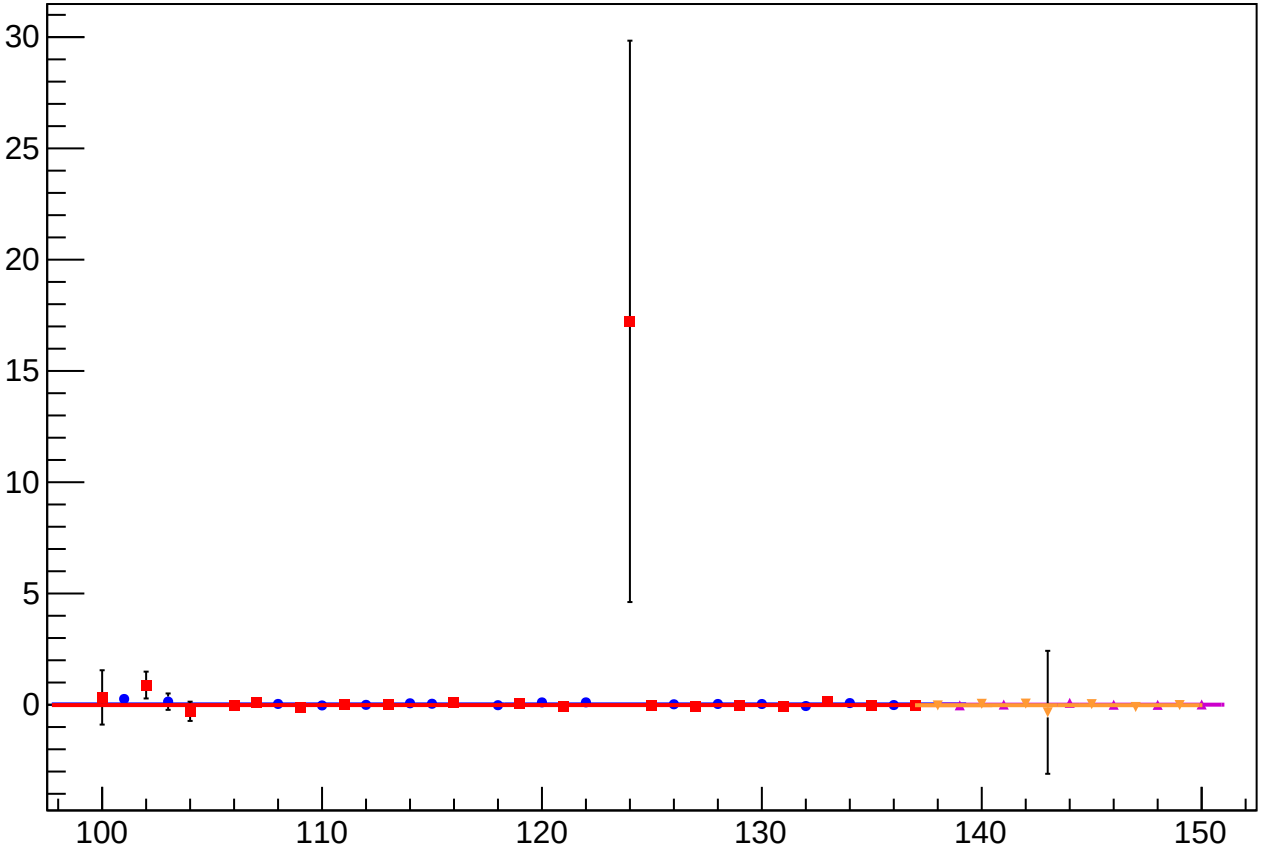
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793023.5/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931765.7/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753771.1/47

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

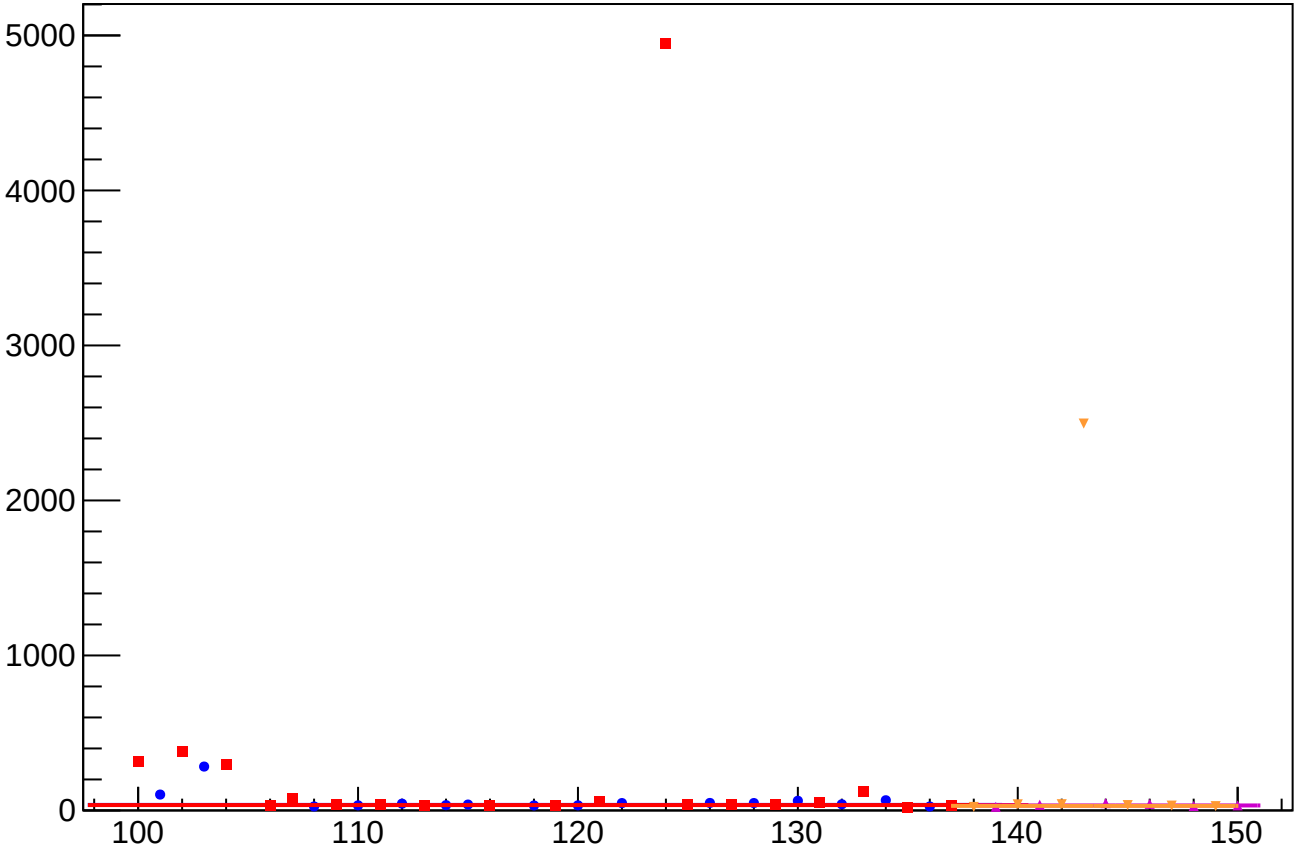
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905740.5/6

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.274+/-0.011 $\chi^2$/NDF:478490.9/5

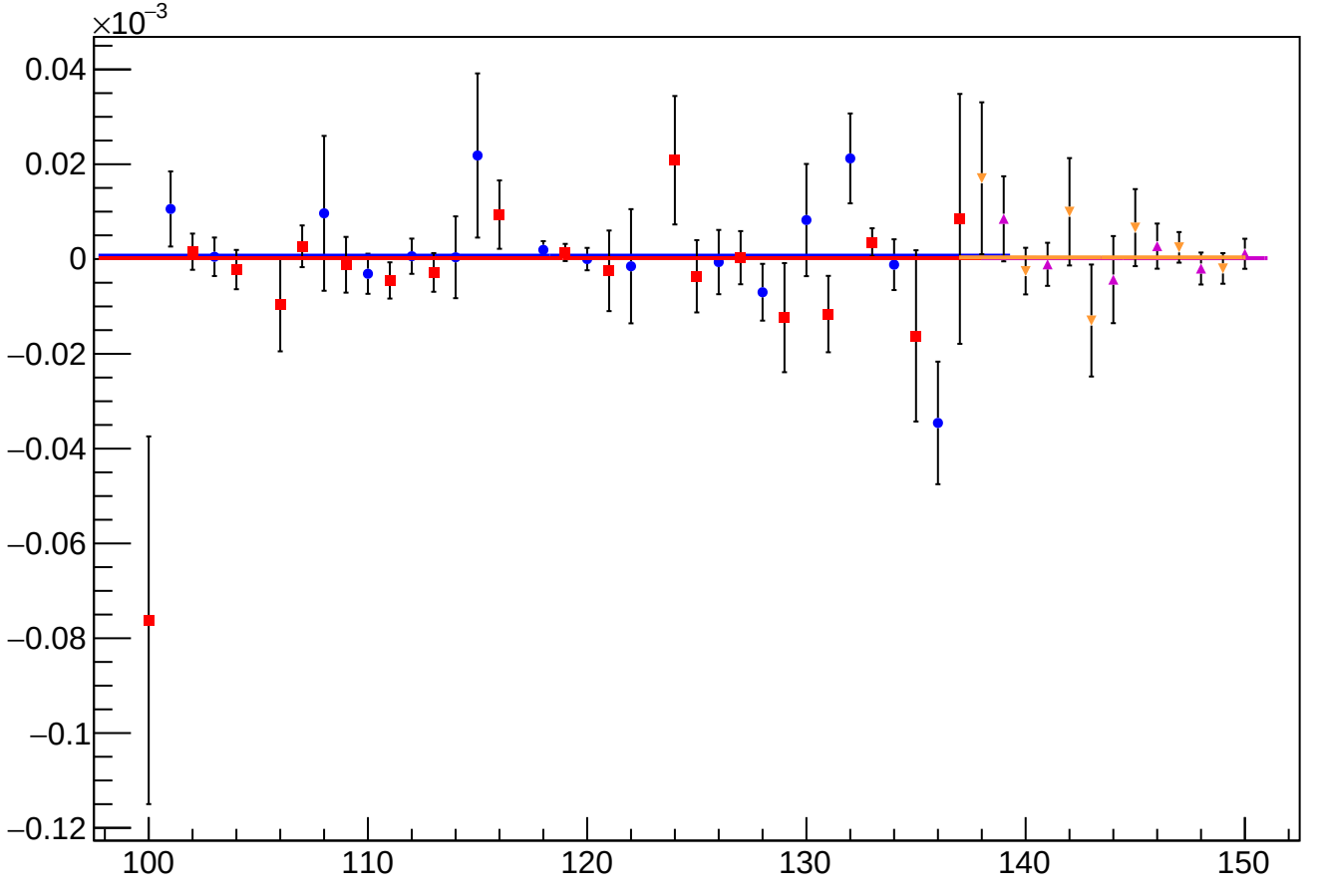
Left: 30.920+/-0.008 $\chi^2$/NDF: 2413636.1/12

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793023.5/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931765.7/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753771.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.0/5

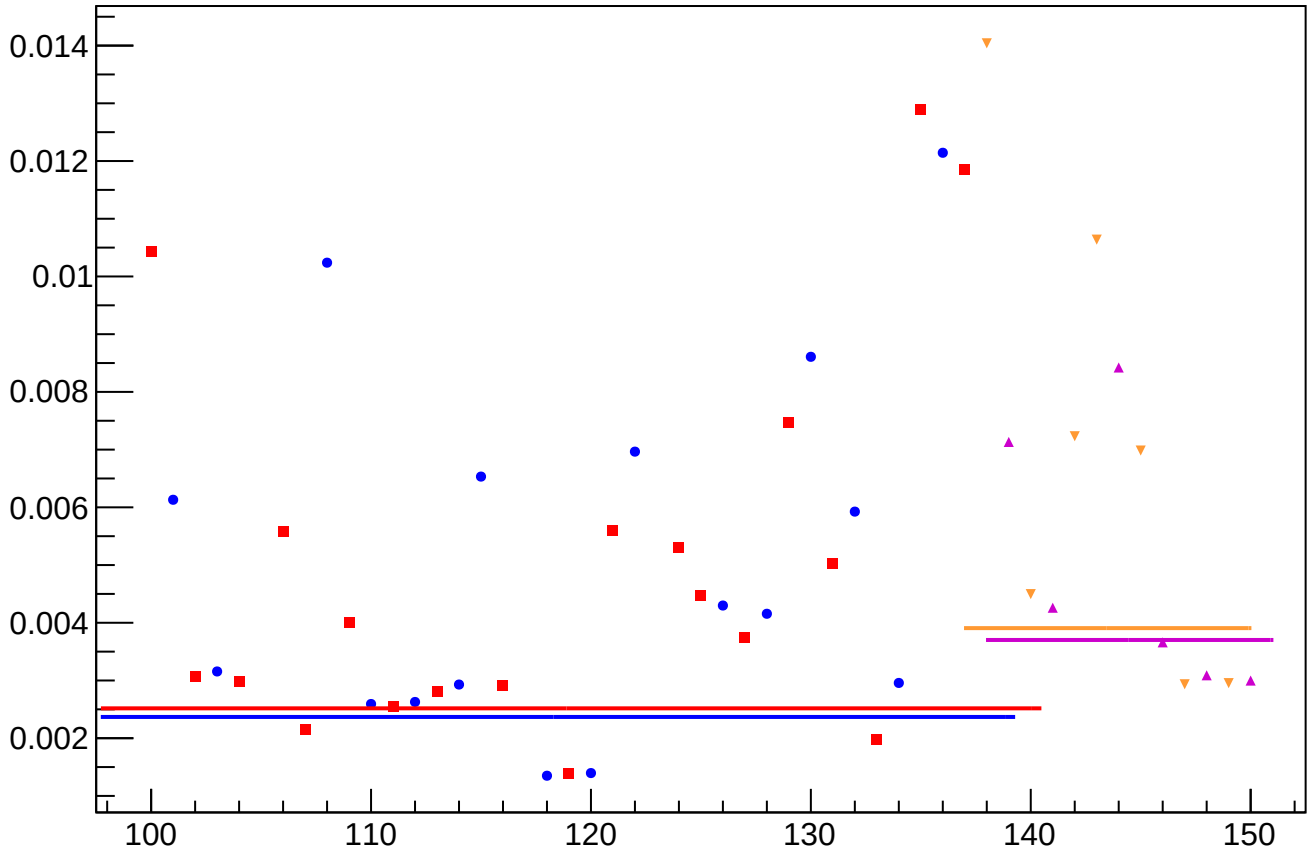
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.2/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2291573.9/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1015003.0/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 3318550.8/12

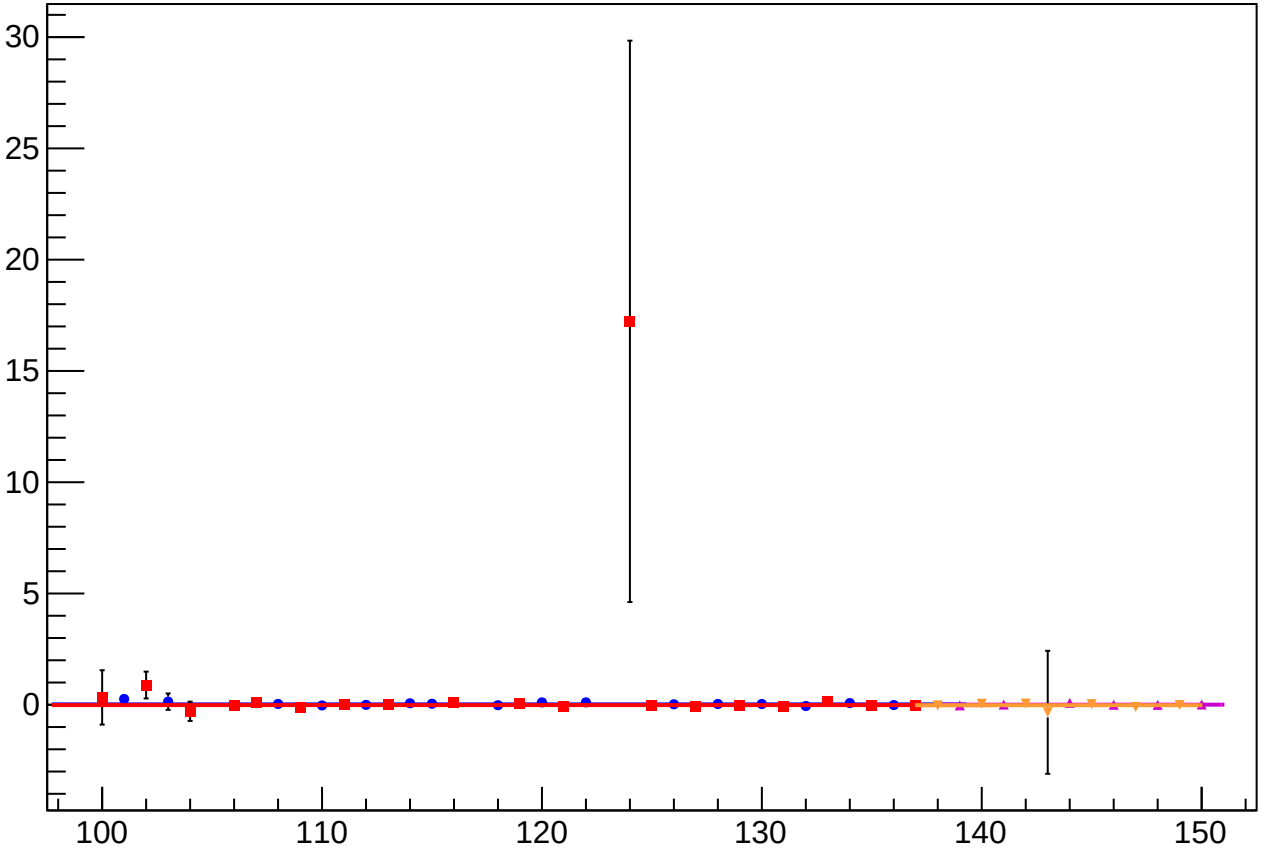
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:6525395.3/21

Out: 0.003+/-0.000 $\chi^2$/NDF:6480966.1/25

All: 0.003+/-0.000 $\chi^2$/NDF: 13020078.8/47

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

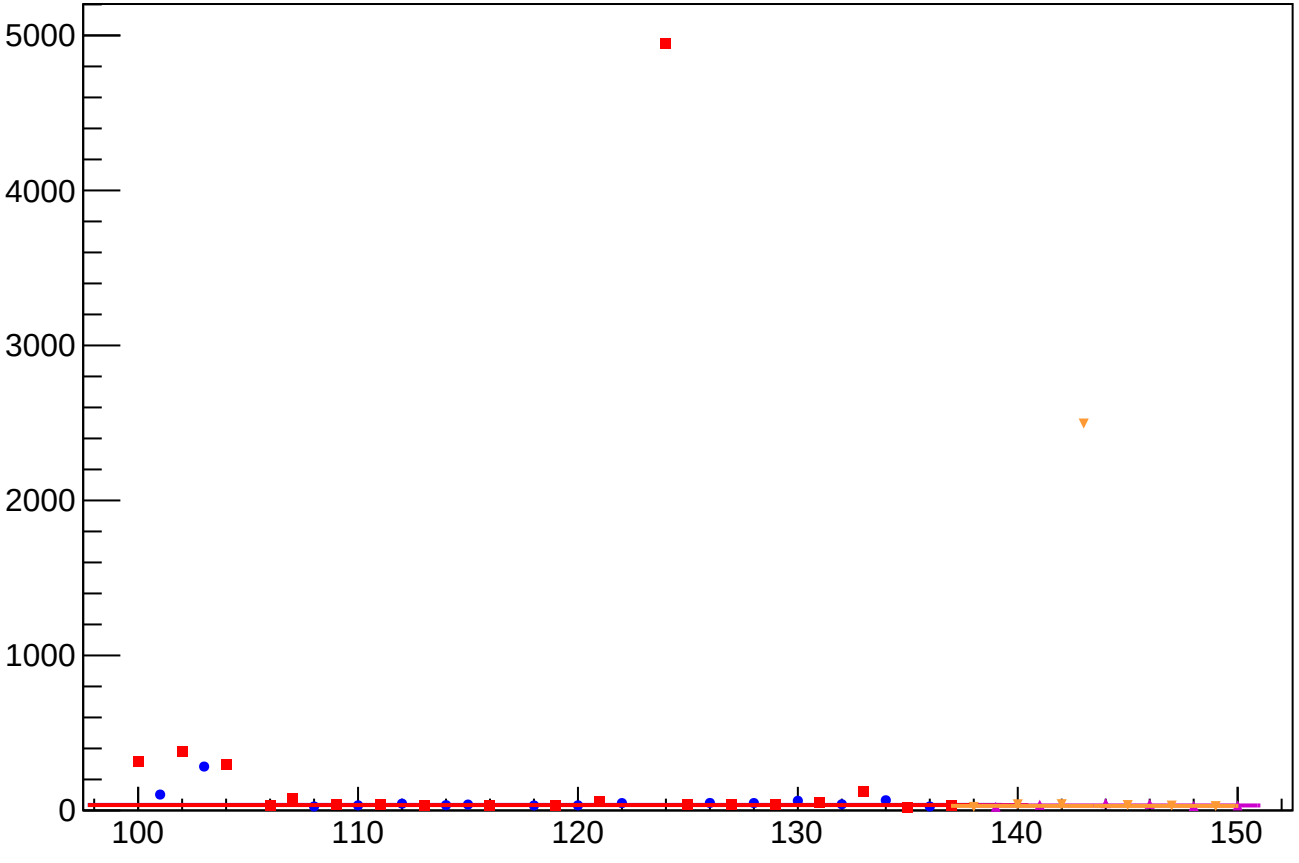
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905956.4/6

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.271+/-0.011 $\chi^2$/NDF:478805.4/5

Left: 30.918+/-0.008 $\chi^2$/NDF: 2414112.9/12

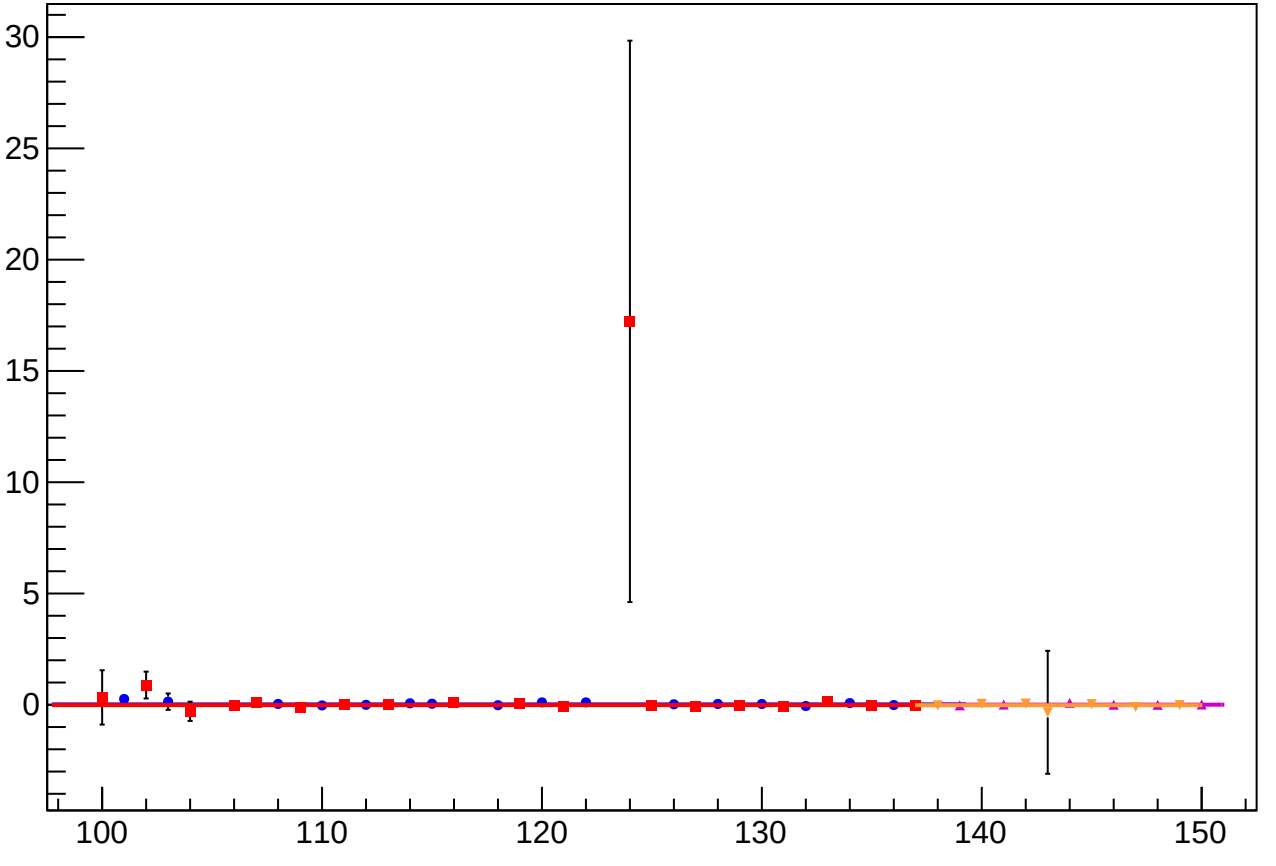
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793187.9/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931860.3/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753999.0/47

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

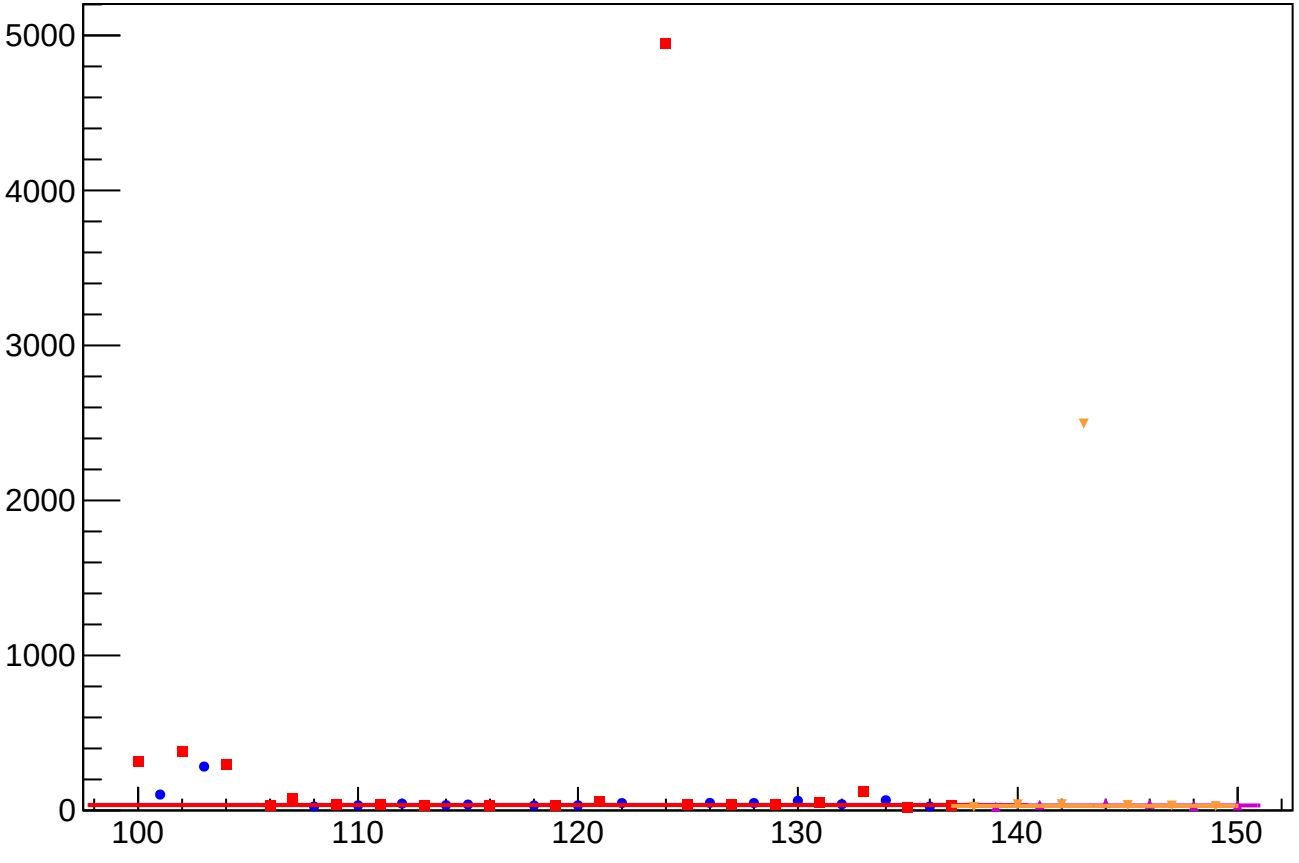
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905956.4/6

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.271+/-0.011 $\chi^2$/NDF:478805.4/5

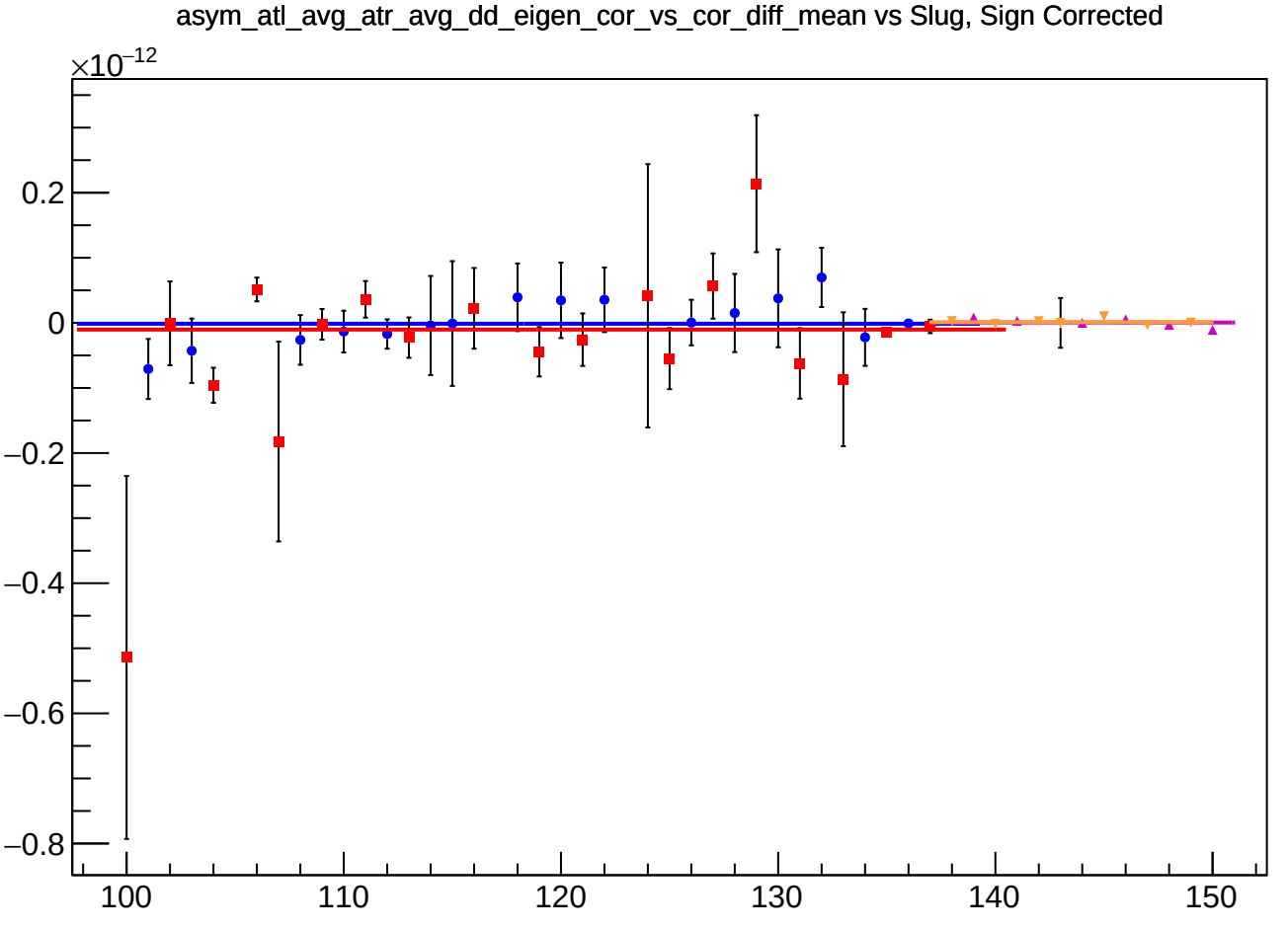
Left: 30.918+/-0.008 $\chi^2$/NDF: 2414112.9/12

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793187.9/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931860.3/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753999.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.3/5

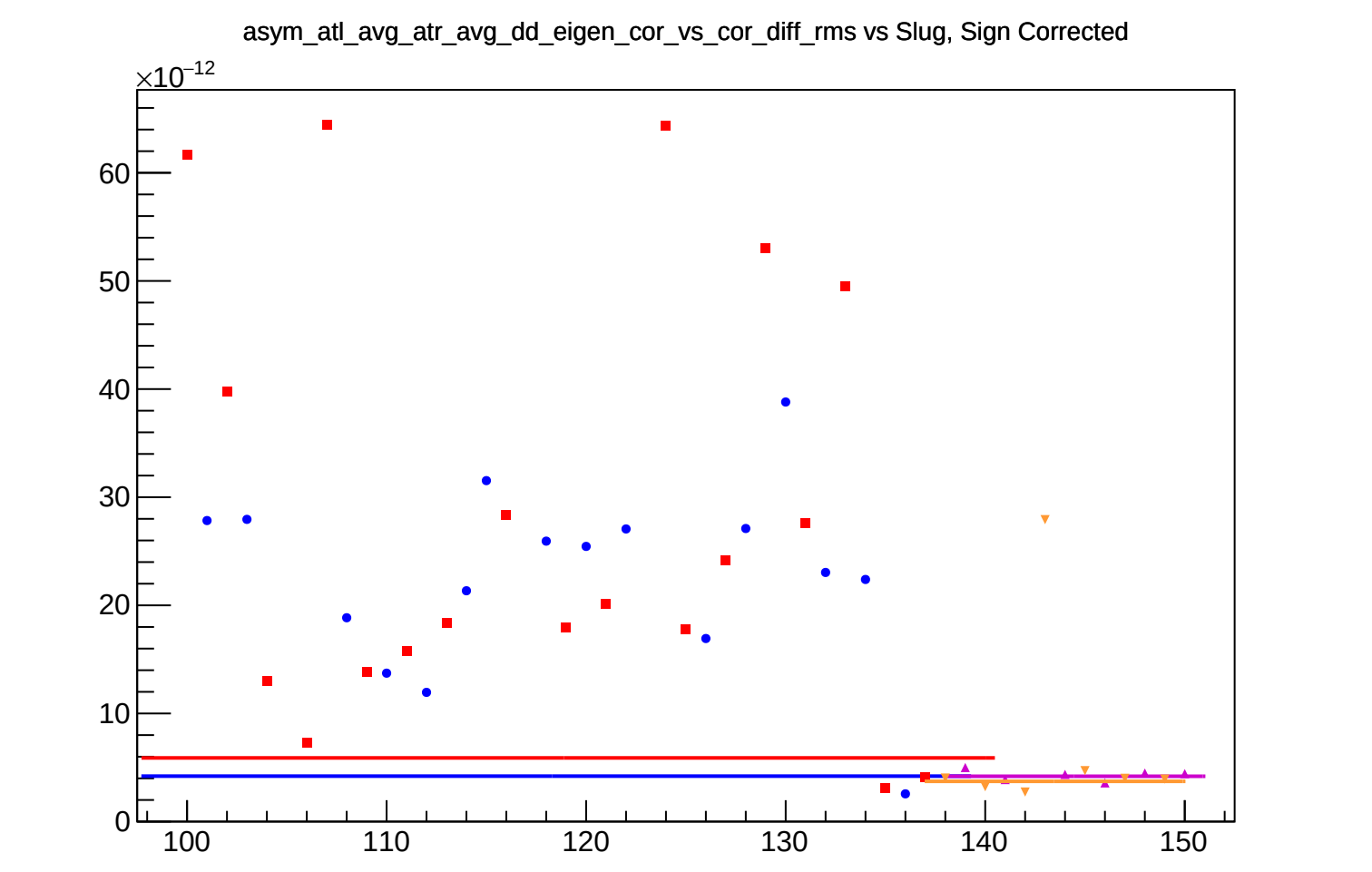
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:49.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 65.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5080225.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:970806.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4860861.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:81514.2/5

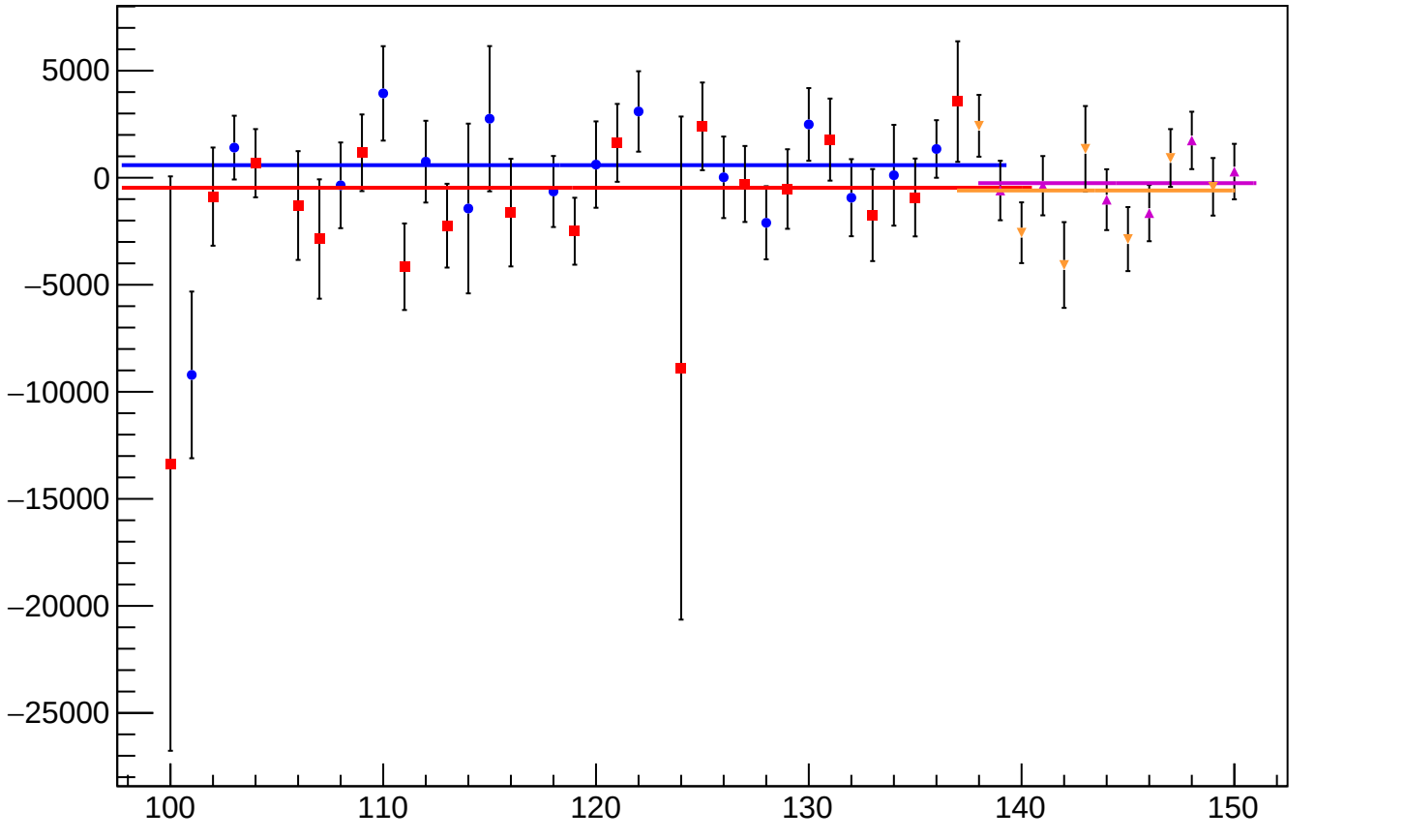
Left: 0.000+/-0.000 $\chi^2$/NDF: 1099875.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 10135954.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:5161756.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6262272.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11424486.8/47




Right In: 586.935+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.369+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -469.012+/-480.516 $\chi^2$/NDF: 16.9/18

Left In: -252.912+/-553.517 $\chi^2$/NDF:3.9/5

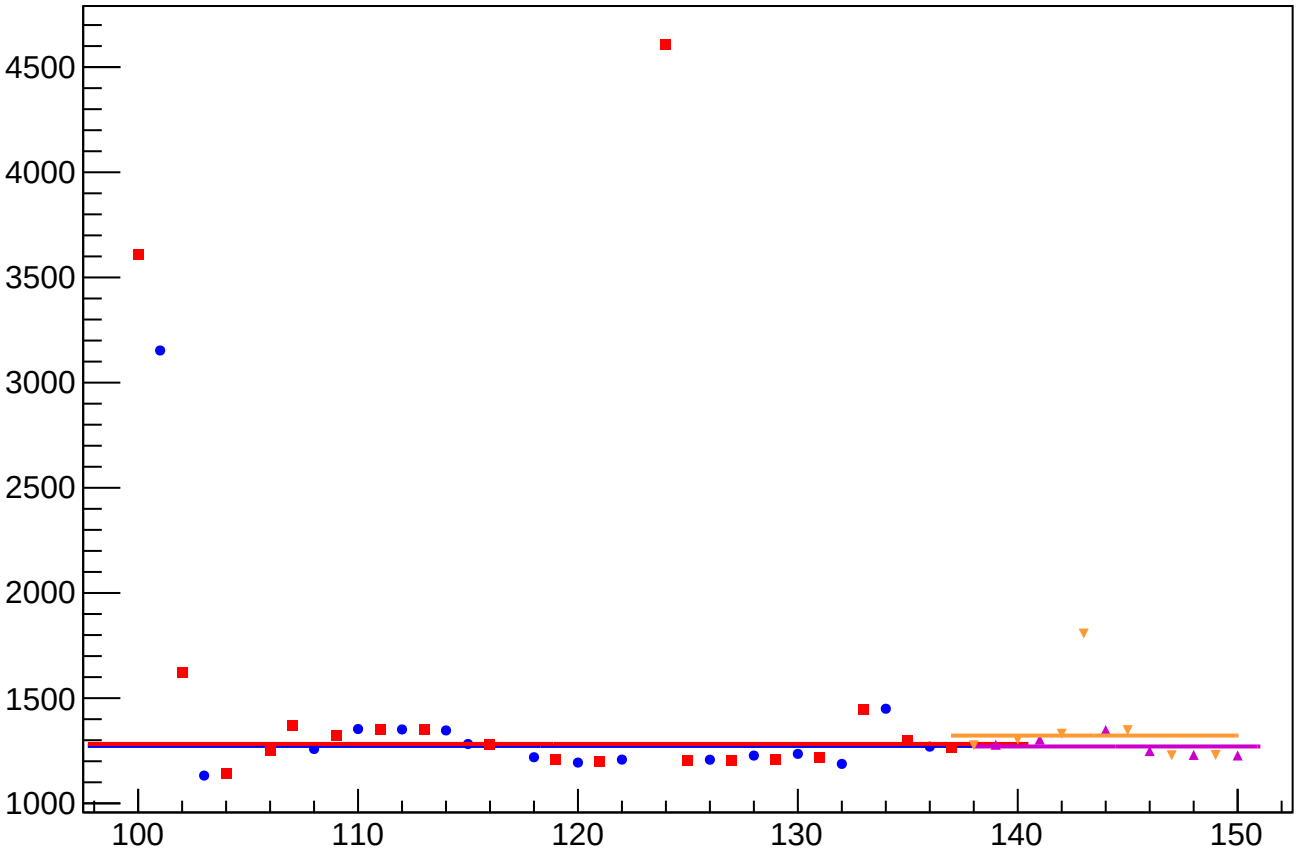
Left: -417.617+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 56.858+/-340.452 $\chi^2$/NDF: 36.3/34

In: 224.368+/-363.684 $\chi^2$/NDF:22.3/21

Out: -520.968+/-368.722 $\chi^2$/NDF:30.7/25

All: -143.173+/-258.926 $\chi^2$/NDF: 55.1/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

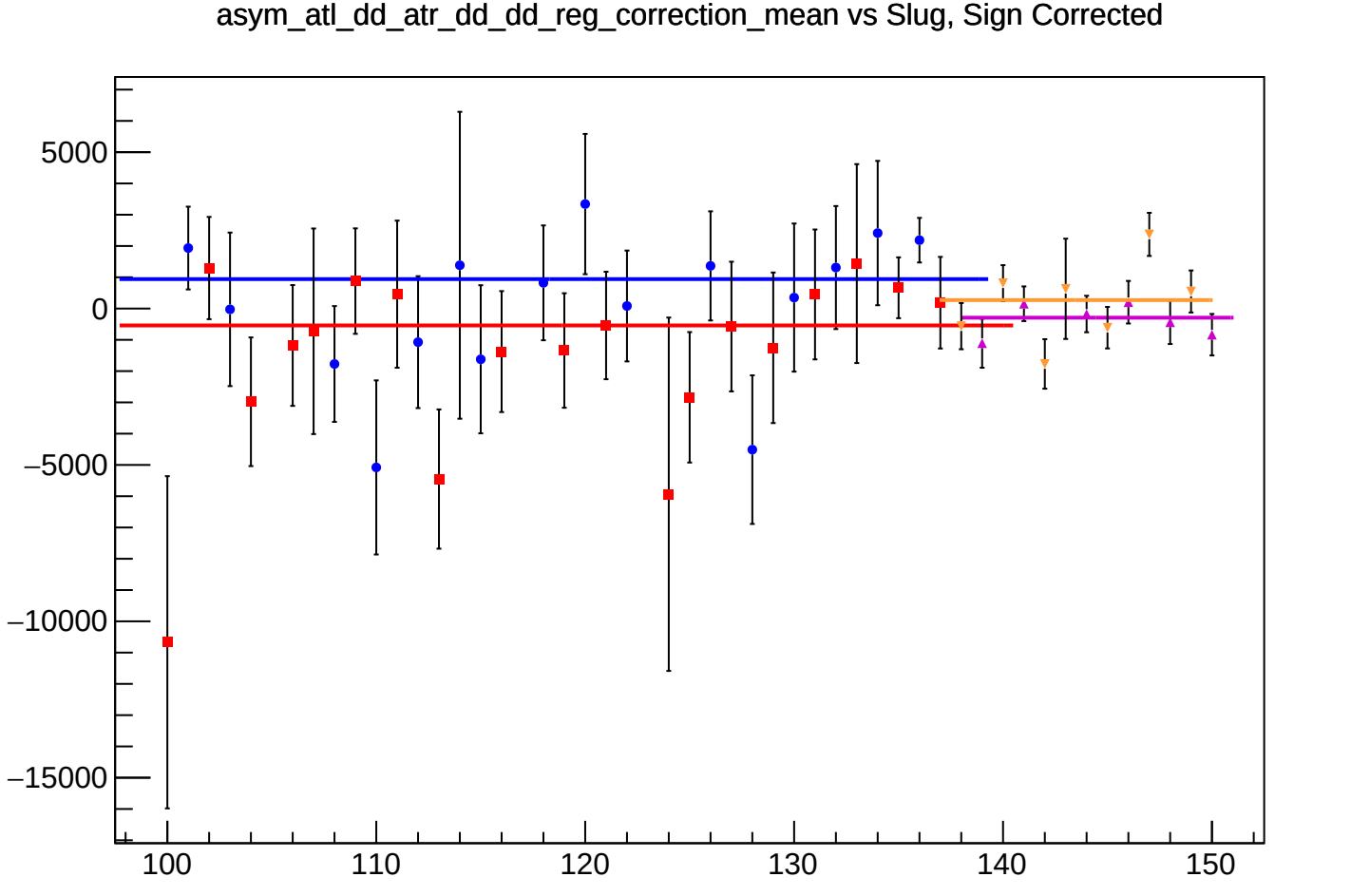
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531113.9/21

Out: 1298.699+/-0.261 $\chi^2$/NDF:467410.4/25

All: 1285.021+/-0.183 $\chi^2$/NDF: 1003954.3/47




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: 271.677+/-272.931 $\chi^2$/NDF:20.1/6

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -292.304+/-264.195 $\chi^2$/NDF:3.0/5

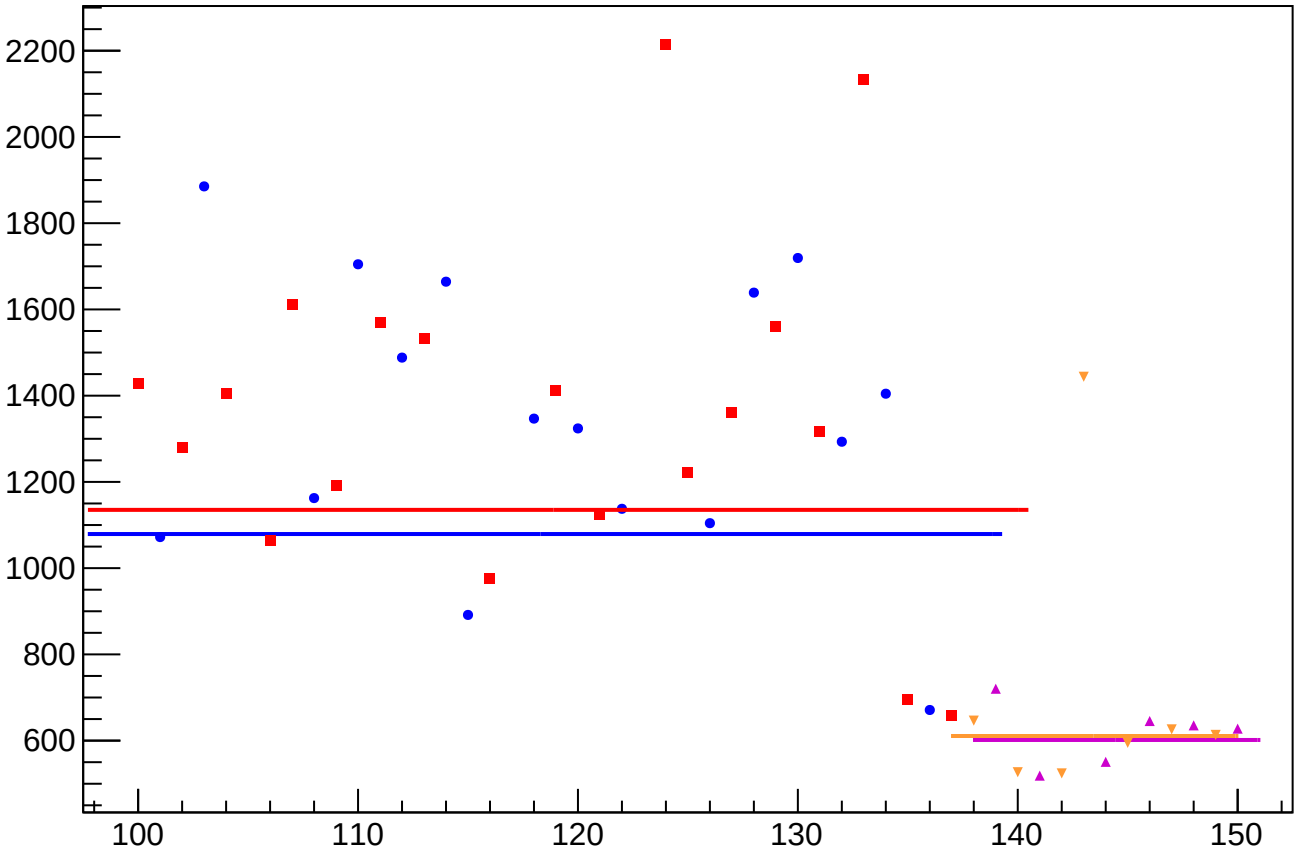
Left: -19.484+/-189.827 $\chi^2$/NDF: 25.3/12

Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: 50.682+/-224.498 $\chi^2$/NDF:29.0/21

Out: 45.903+/-231.920 $\chi^2$/NDF:39.7/25

All: 48.370+/-161.304 $\chi^2$/NDF: 68.7/47




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 610.729+/-0.193 $\chi^2$/NDF:613238.9/6

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 601.520+/-0.187 $\chi^2$/NDF:121857.1/5

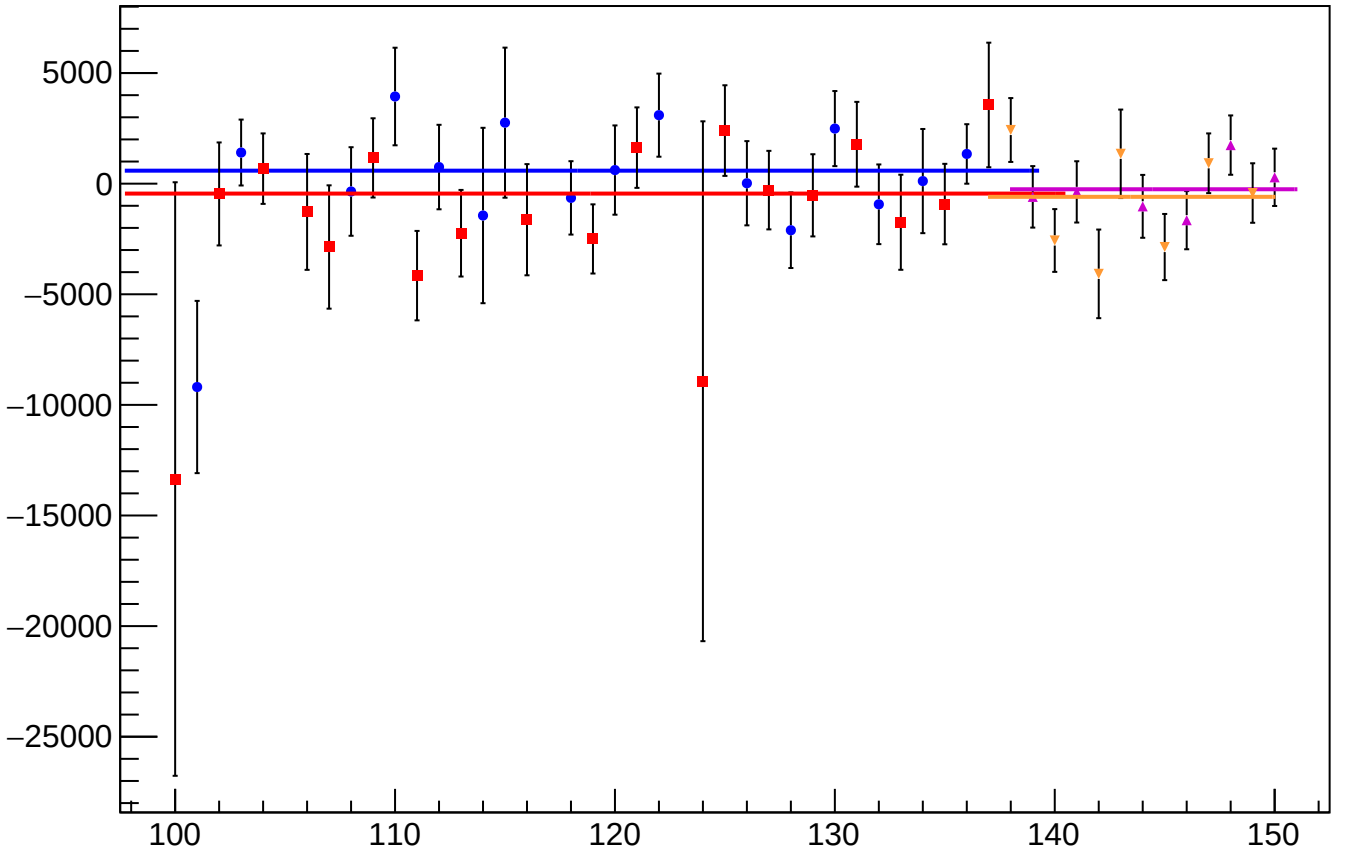
Left: 605.974+/-0.134 $\chi^2$/NDF: 736271.5/12

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 734.260+/-0.159 $\chi^2$/NDF:3420650.0/21

Out: 756.492+/-0.164 $\chi^2$/NDF:3958718.4/25

All: 745.015+/-0.114 $\chi^2$/NDF: 7388856.2/47




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.426+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -252.908+/-553.517 $\chi^2$/NDF:3.9/5

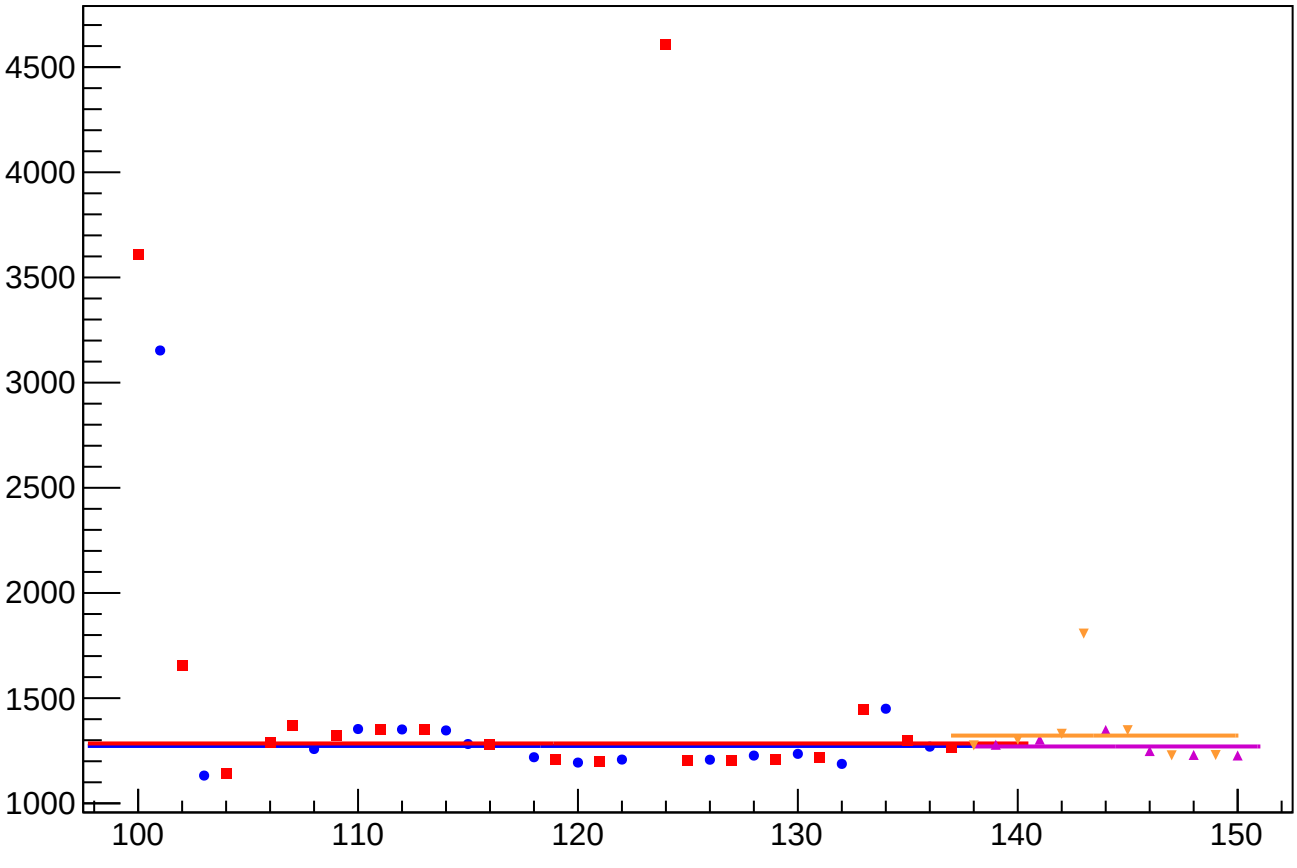
Left: -417.643+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 224.552+/-363.684 $\chi^2$/NDF:22.2/21

Out: -508.982+/-369.091 $\chi^2$/NDF:30.7/25

All: -136.803+/-259.054 $\chi^2$/NDF: 55.0/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

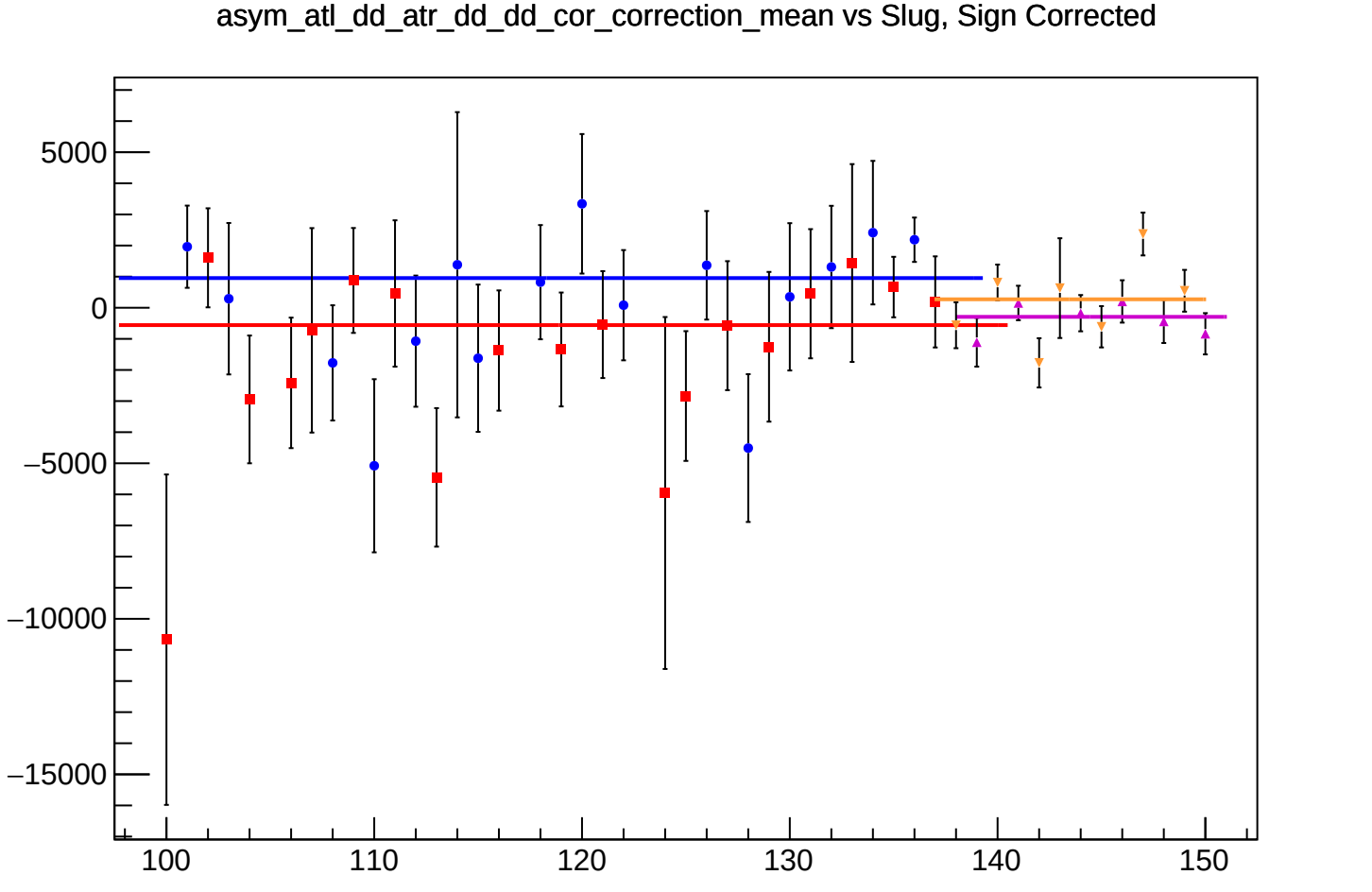
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531115.3/21

Out: 1300.078+/-0.261 $\chi^2$/NDF:473430.6/25

All: 1285.687+/-0.183 $\chi^2$/NDF: 1010538.9/47




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 271.653+/-272.936 $\chi^2$/NDF:20.1/6

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -292.399+/-264.193 $\chi^2$/NDF:3.0/5

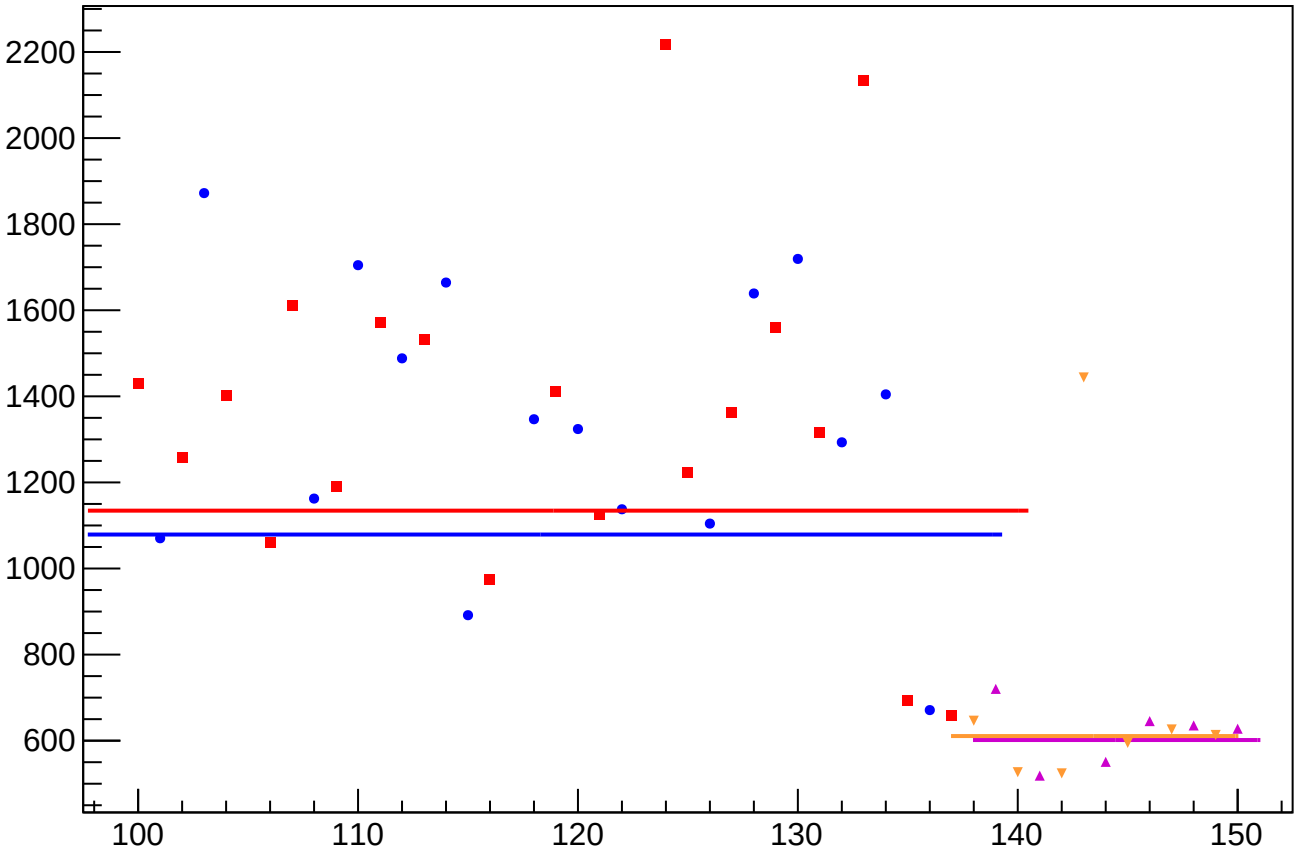
Left: -19.552+/-189.828 $\chi^2$/NDF: 25.3/12

Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 54.260+/-224.471 $\chi^2$/NDF:29.1/21

Out: 41.711+/-232.048 $\chi^2$/NDF:41.0/25

All: 48.194+/-161.337 $\chi^2$/NDF: 70.1/47




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 610.741+/-0.193 $\chi^2$/NDF:613184.3/6

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 601.515+/-0.187 $\chi^2$/NDF:121881.1/5

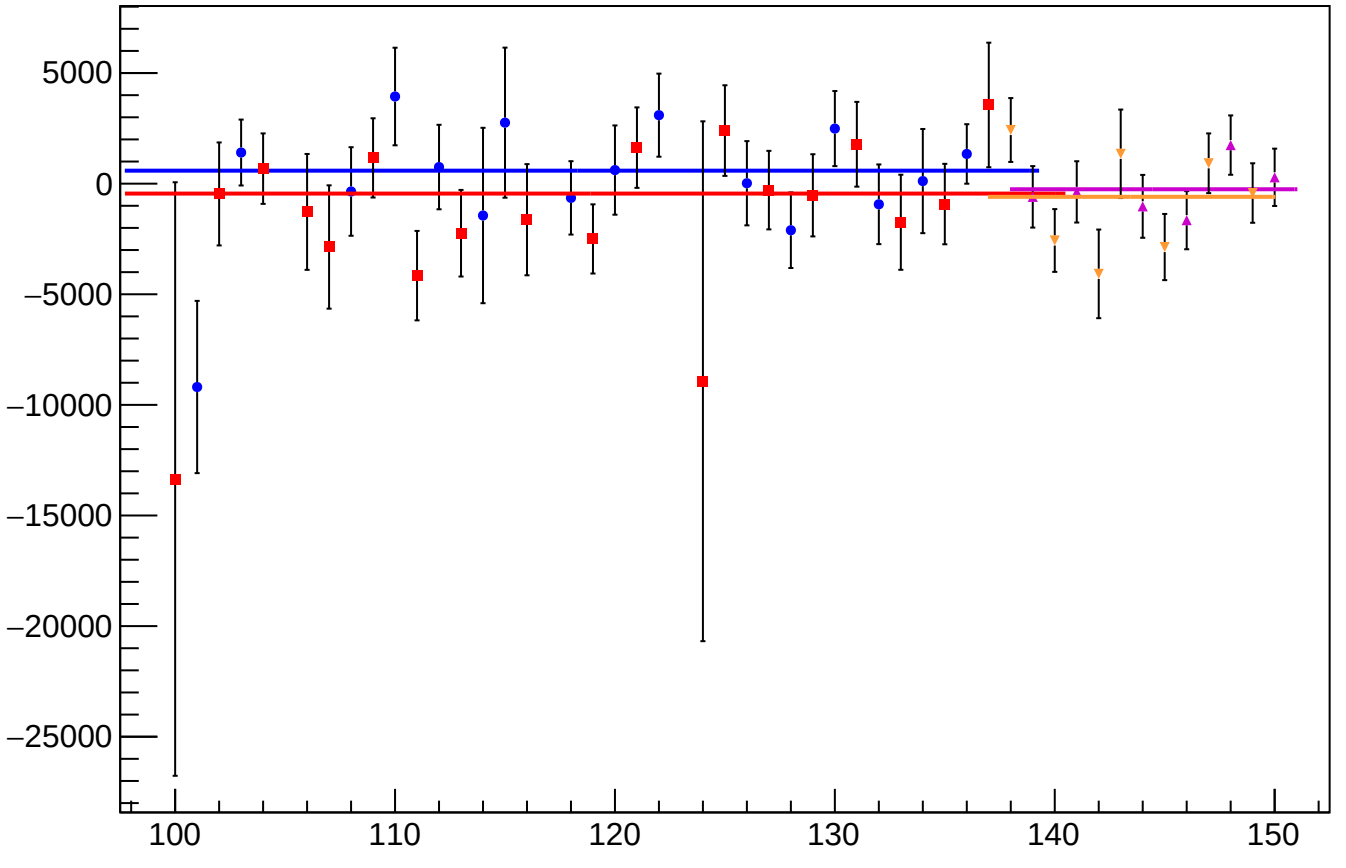
Left: 605.978+/-0.134 $\chi^2$/NDF: 736245.5/12

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 734.282+/-0.159 $\chi^2$/NDF:3416864.6/21

Out: 755.894+/-0.164 $\chi^2$/NDF:3942906.7/25

All: 744.730+/-0.114 $\chi^2$/NDF: 7368733.3/47




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.426+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -252.908+/-553.517 $\chi^2$/NDF:3.9/5

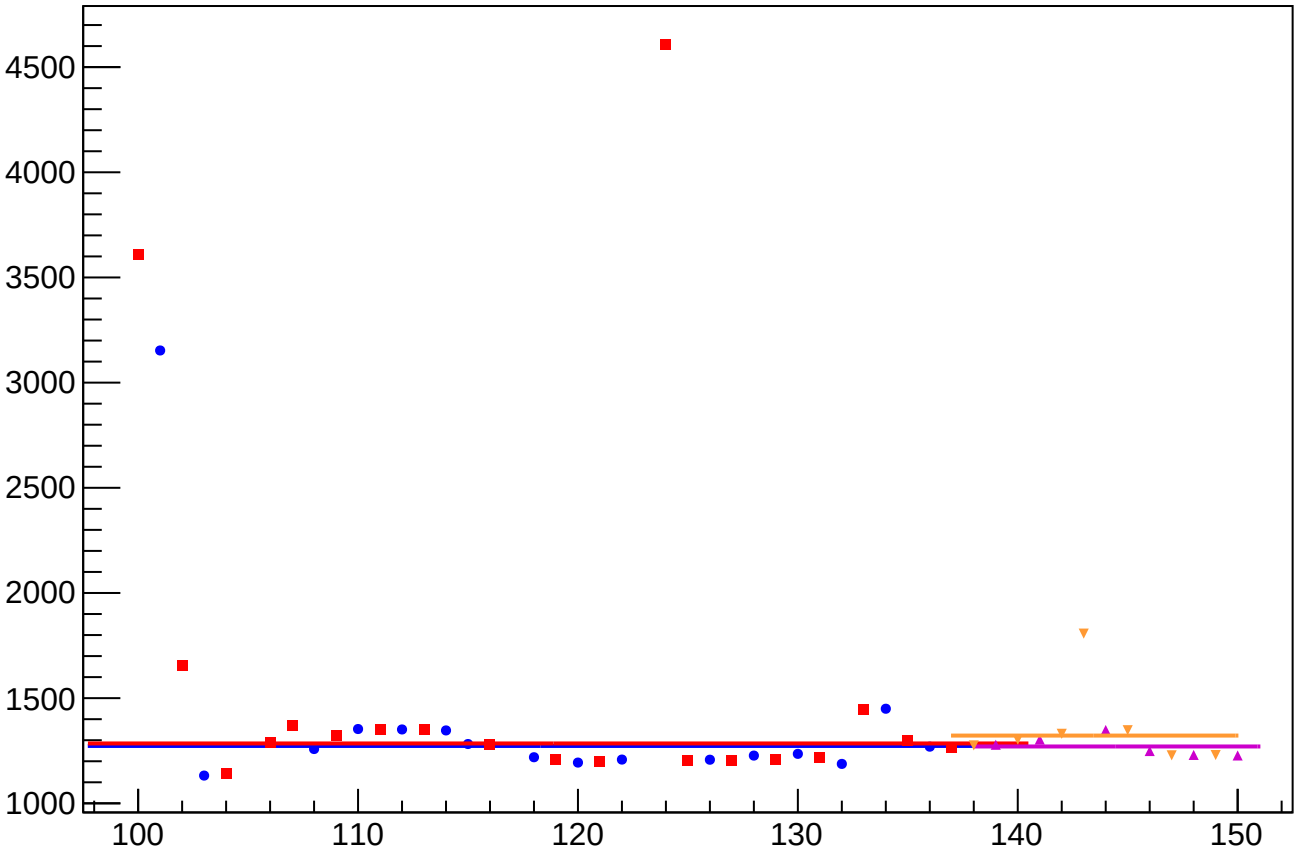
Left: -417.643+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 224.552+/-363.684 $\chi^2$/NDF:22.2/21

Out: -508.982+/-369.091 $\chi^2$/NDF:30.7/25

All: -136.803+/-259.054 $\chi^2$/NDF: 55.0/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

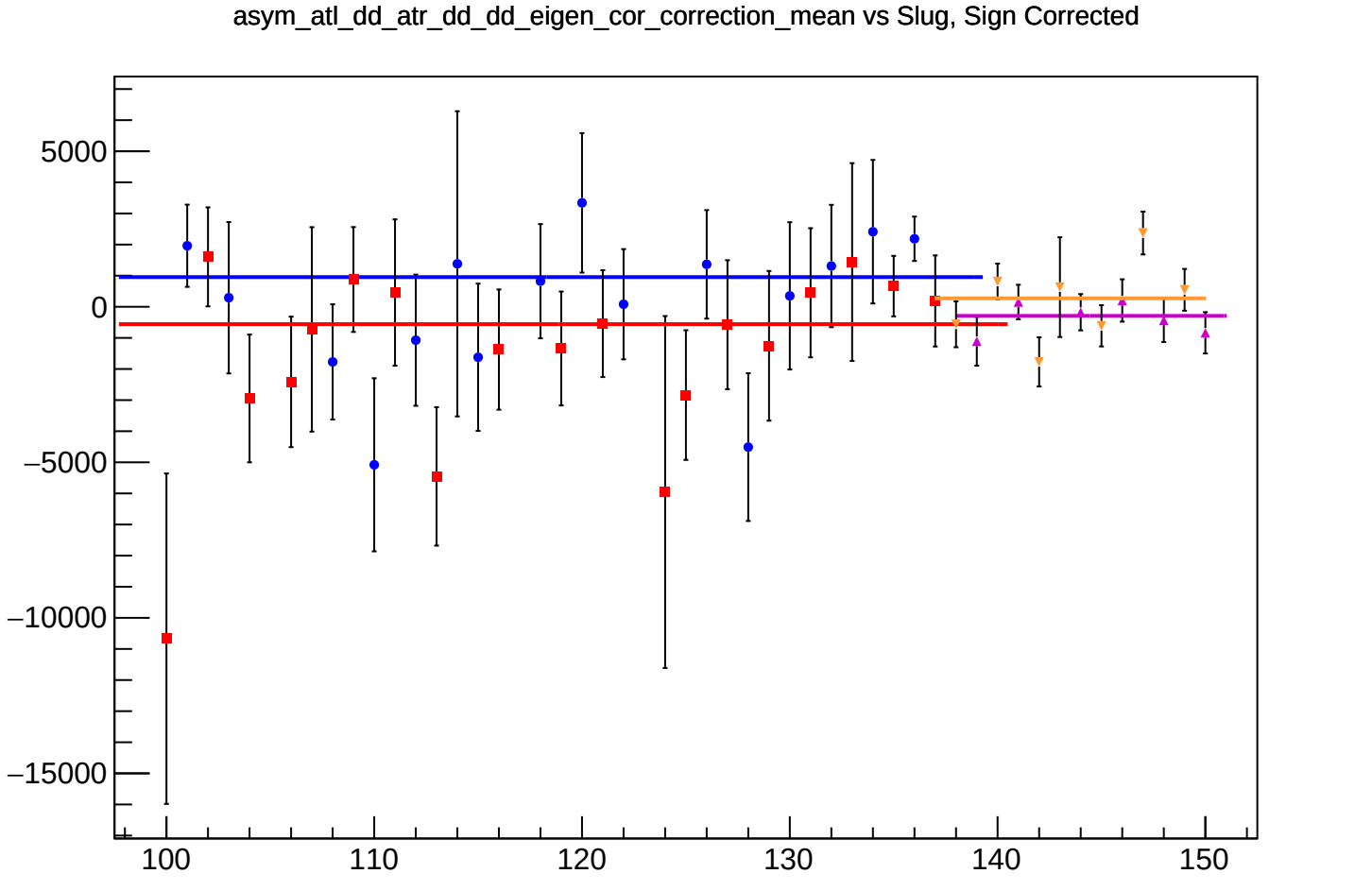
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531115.3/21

Out: 1300.078+/-0.261 $\chi^2$/NDF:473430.6/25

All: 1285.687+/-0.183 $\chi^2$/NDF: 1010538.9/47




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 271.653+/-272.936 $\chi^2$/NDF:20.1/6

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -292.399+/-264.193 $\chi^2$/NDF:3.0/5

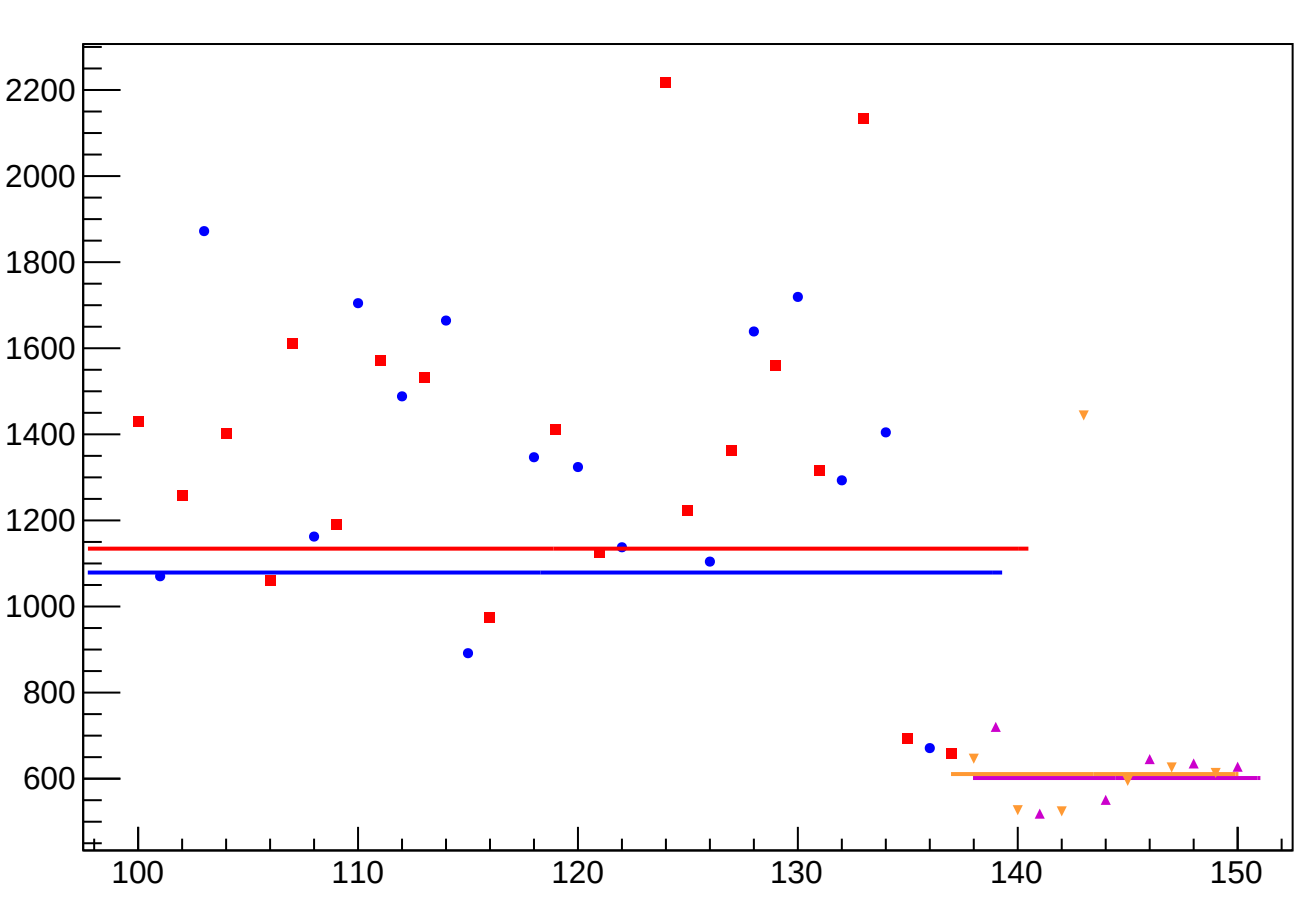
Left: -19.552+/-189.828 $\chi^2$/NDF: 25.3/12

Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 54.260+/-224.471 $\chi^2$/NDF:29.1/21

Out: 41.711+/-232.048 $\chi^2$/NDF:41.0/25

All: 48.194+/-161.337 $\chi^2$/NDF: 70.1/47




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 610.741+/-0.193 $\chi^2$/NDF:613184.3/6

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 601.515+/-0.187 $\chi^2$/NDF:121881.1/5

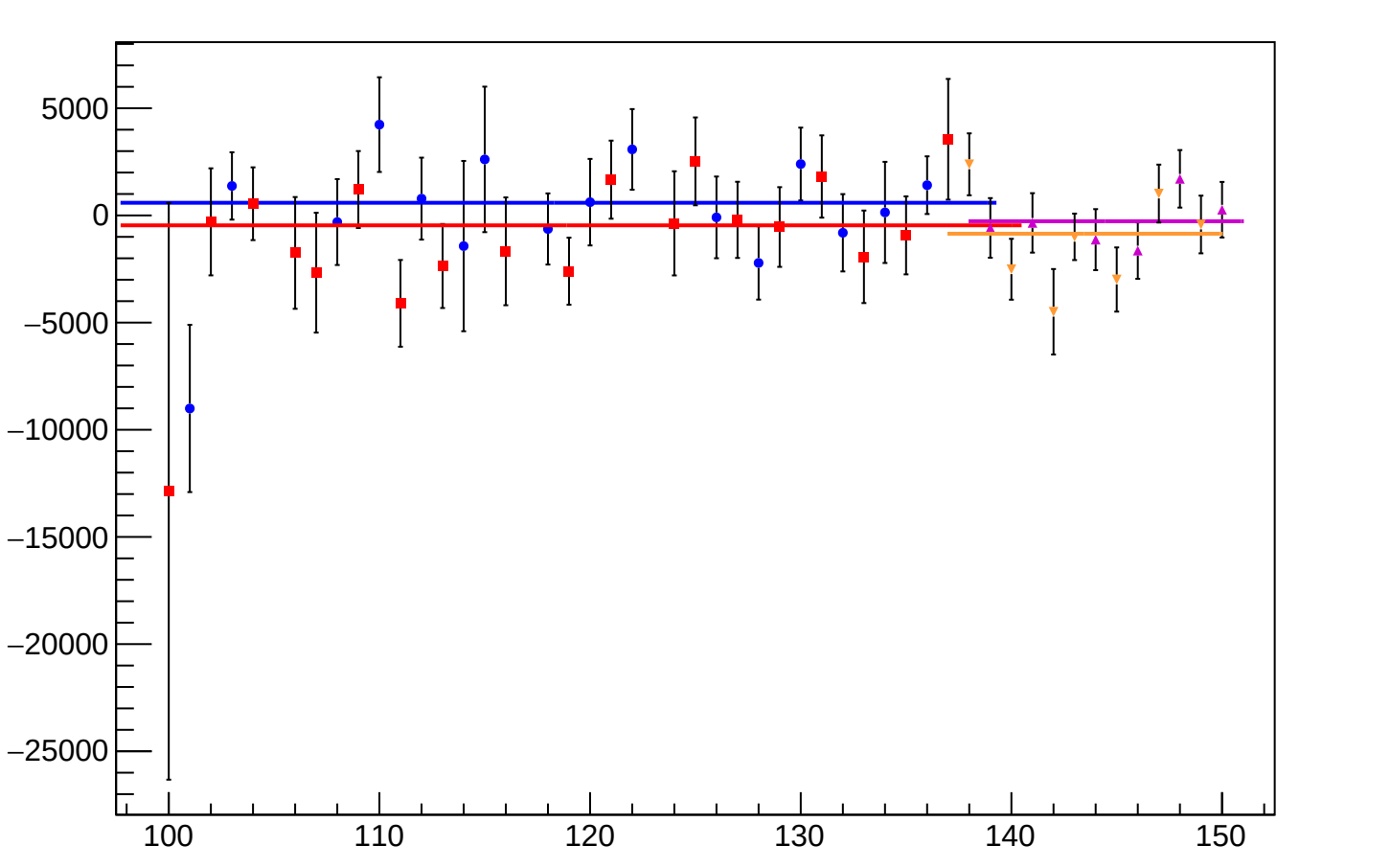
Left: 605.978+/-0.134 $\chi^2$/NDF: 736245.5/12

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 734.282+/-0.159 $\chi^2$/NDF:3416864.6/21

Out: 755.894+/-0.164 $\chi^2$/NDF:3942906.7/25

All: 744.730+/-0.114 $\chi^2$/NDF: 7368733.3/47




Right In: 590.322+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -853.275+/-525.291 $\chi^2$/NDF:13.8/6

Right Out: -462.606+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -270.724+/-553.947 $\chi^2$/NDF:3.8/5

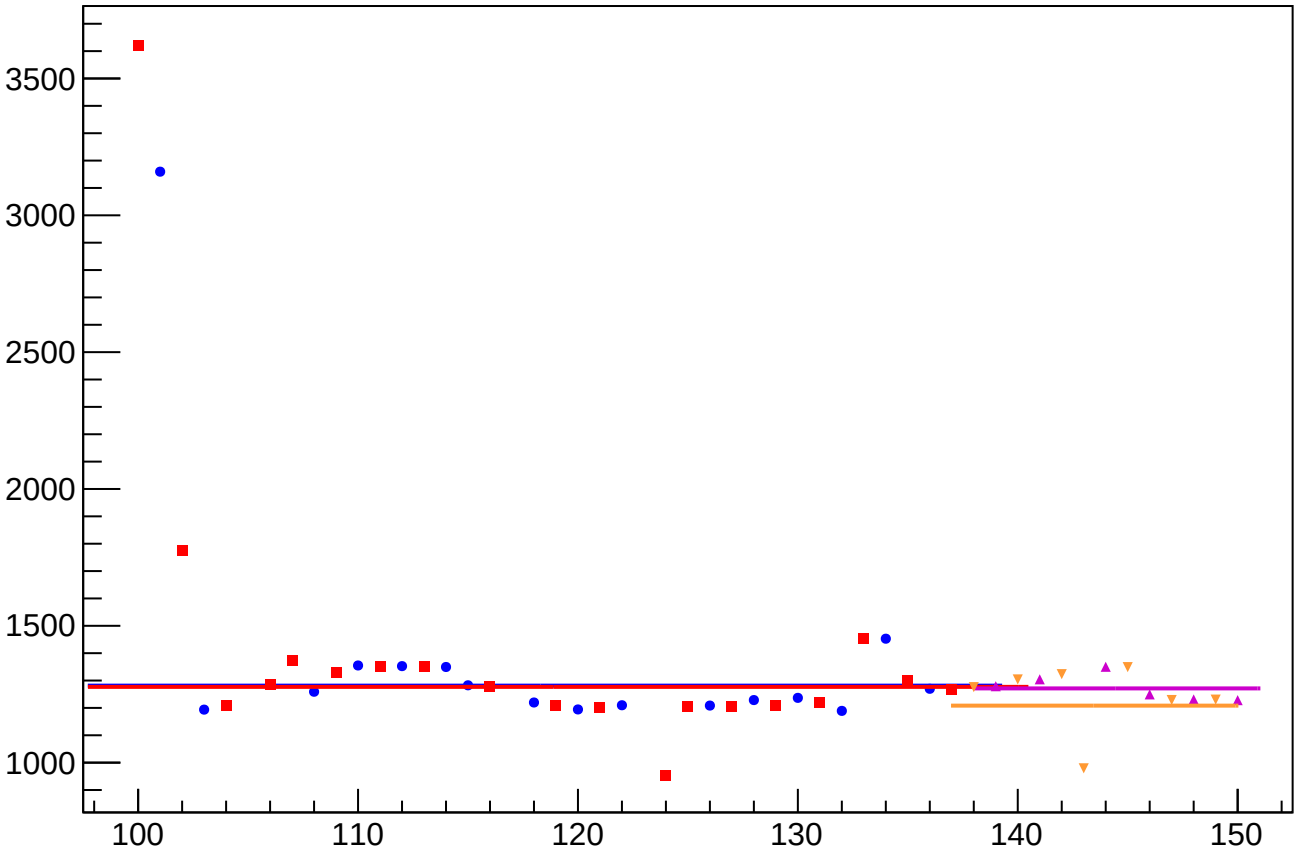
Left: -577.456+/-381.165 $\chi^2$/NDF: 18.2/12

Right: 54.353+/-340.175 $\chi^2$/NDF: 36.2/34

In: 216.269+/-365.108 $\chi^2$/NDF:22.3/21

Out: -639.078+/-353.048 $\chi^2$/NDF:30.8/25

All: -225.765+/-253.799 $\chi^2$/NDF: 56.0/47




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1208.314+/-0.371 $\chi^2$/NDF:128094.1/6

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1271.256+/-0.392 $\chi^2$/NDF:11928.1/5

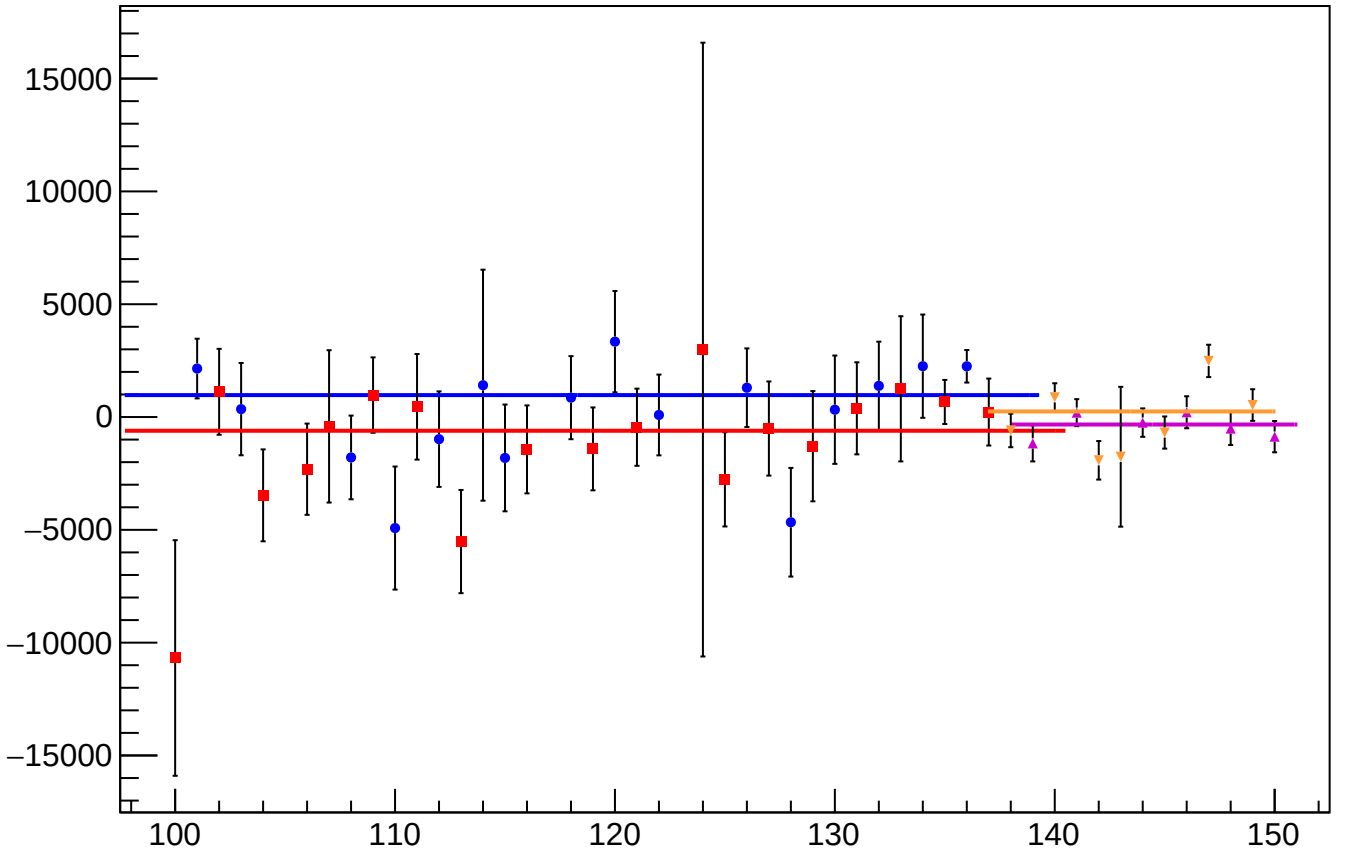
Left: 1238.115+/-0.270 $\chi^2$/NDF: 153618.0/12

Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1276.976+/-0.258 $\chi^2$/NDF:519383.5/21

Out: 1245.897+/-0.250 $\chi^2$/NDF:367280.2/25

All: 1260.914+/-0.179 $\chi^2$/NDF: 894152.9/47




Right In: 972.287+/-425.219 $\chi^2$/NDF: 20.4/15

Left Out: 247.934+/-290.815 $\chi^2$/NDF:20.8/6

Right Out: -608.431+/-447.734 $\chi^2$/NDF: 17.1/18

Left In: -331.565+/-279.294 $\chi^2$/NDF:3.1/5

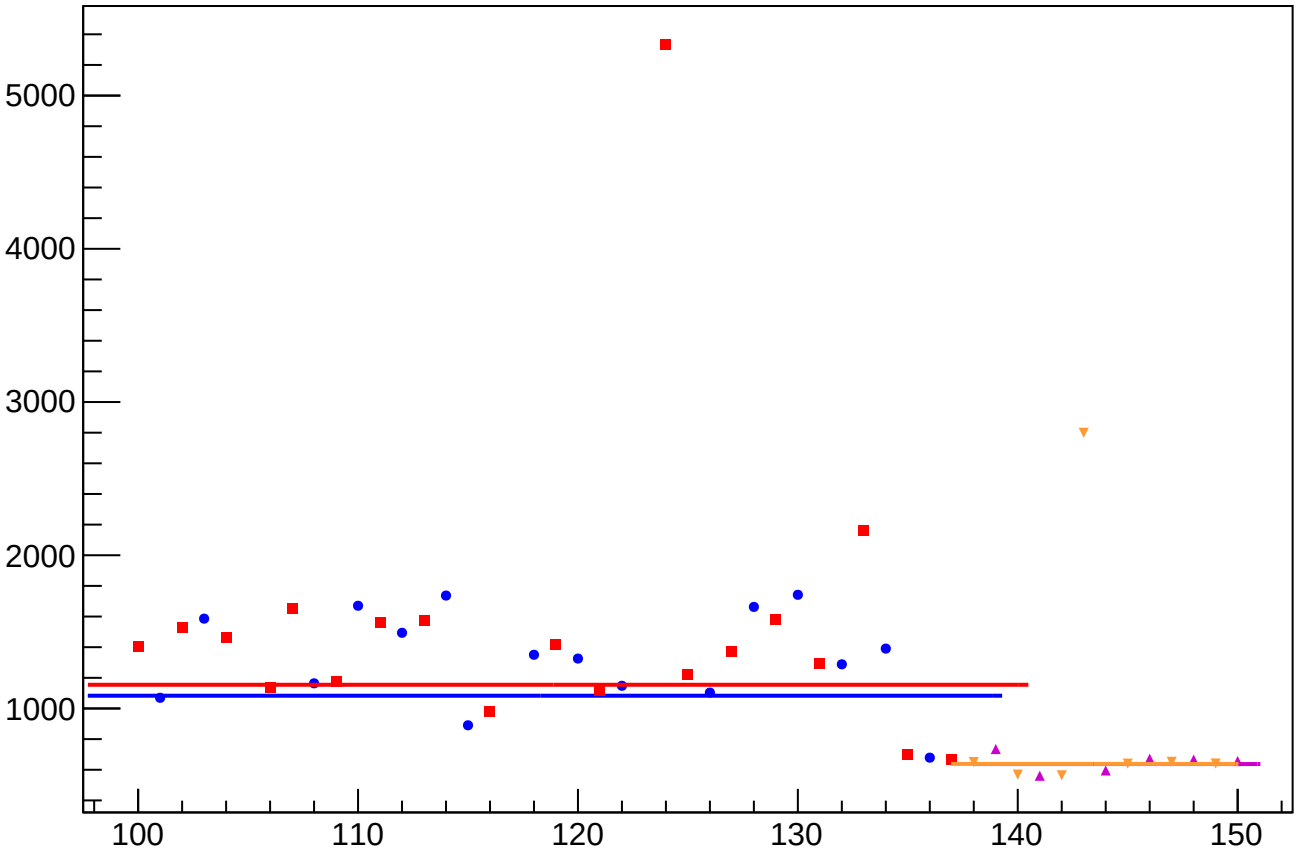
Left: -53.521+/-201.440 $\chi^2$/NDF: 26.0/12

Right: 222.671+/-308.328 $\chi^2$/NDF: 44.1/34

In: 61.407+/-233.442 $\chi^2$/NDF:30.1/21

Out: -6.156+/-243.884 $\chi^2$/NDF:40.5/25

All: 29.103+/-168.639 $\chi^2$/NDF: 70.7/47




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 638.123+/-0.206 $\chi^2$/NDF:1014470.1/6

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 637.333+/-0.197 $\chi^2$/NDF:80882.0/5

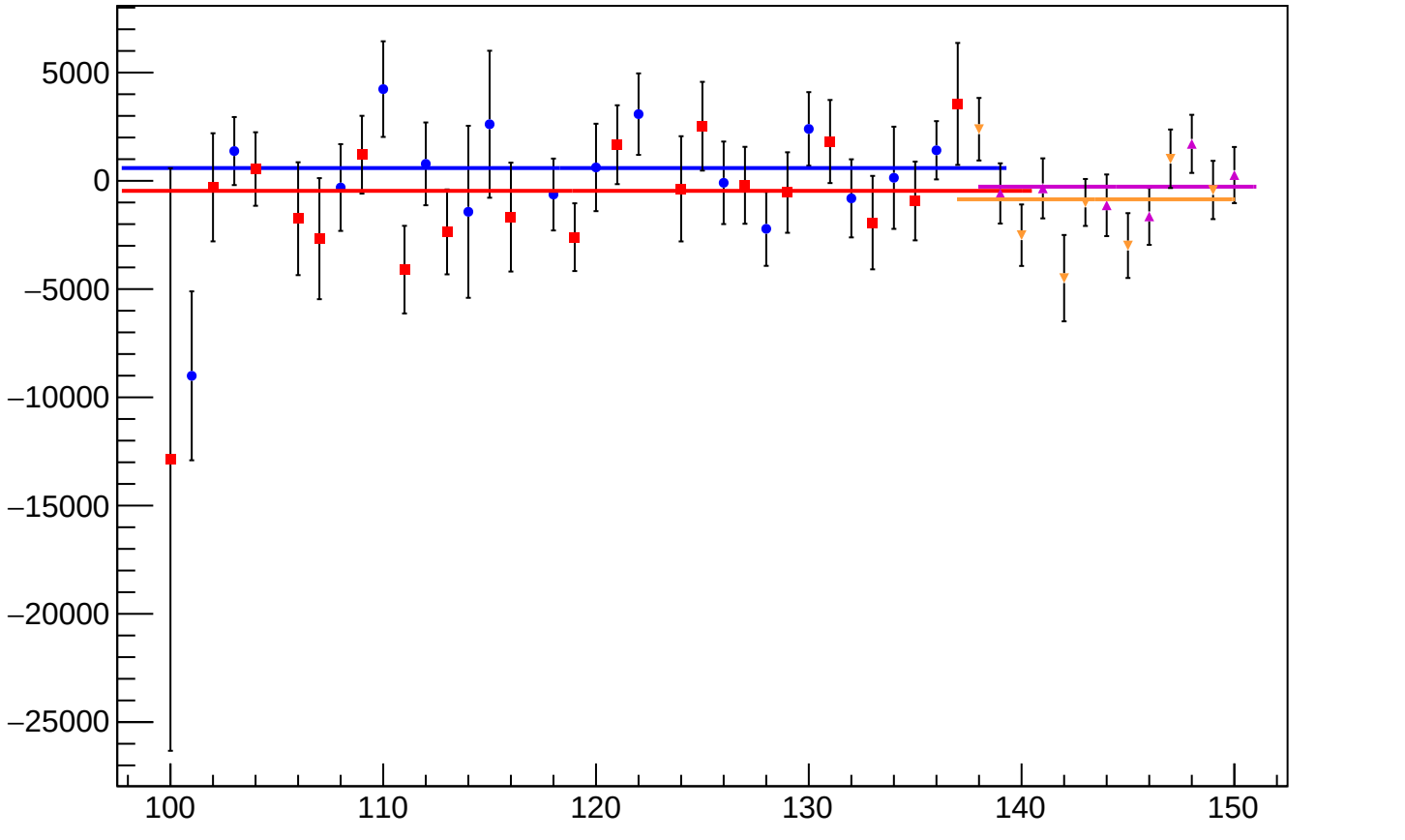
Left: 637.712+/-0.142 $\chi^2$/NDF: 1095359.9/12

Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 771.755+/-0.165 $\chi^2$/NDF:2978168.1/21

Out: 791.402+/-0.172 $\chi^2$/NDF:4375342.0/25

All: 781.149+/-0.119 $\chi^2$/NDF: 7360284.0/47




Right In: 590.323+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -853.275+/-525.291 $\chi^2$/NDF:13.8/6

Right Out: -462.605+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -270.727+/-553.947 $\chi^2$/NDF:3.8/5

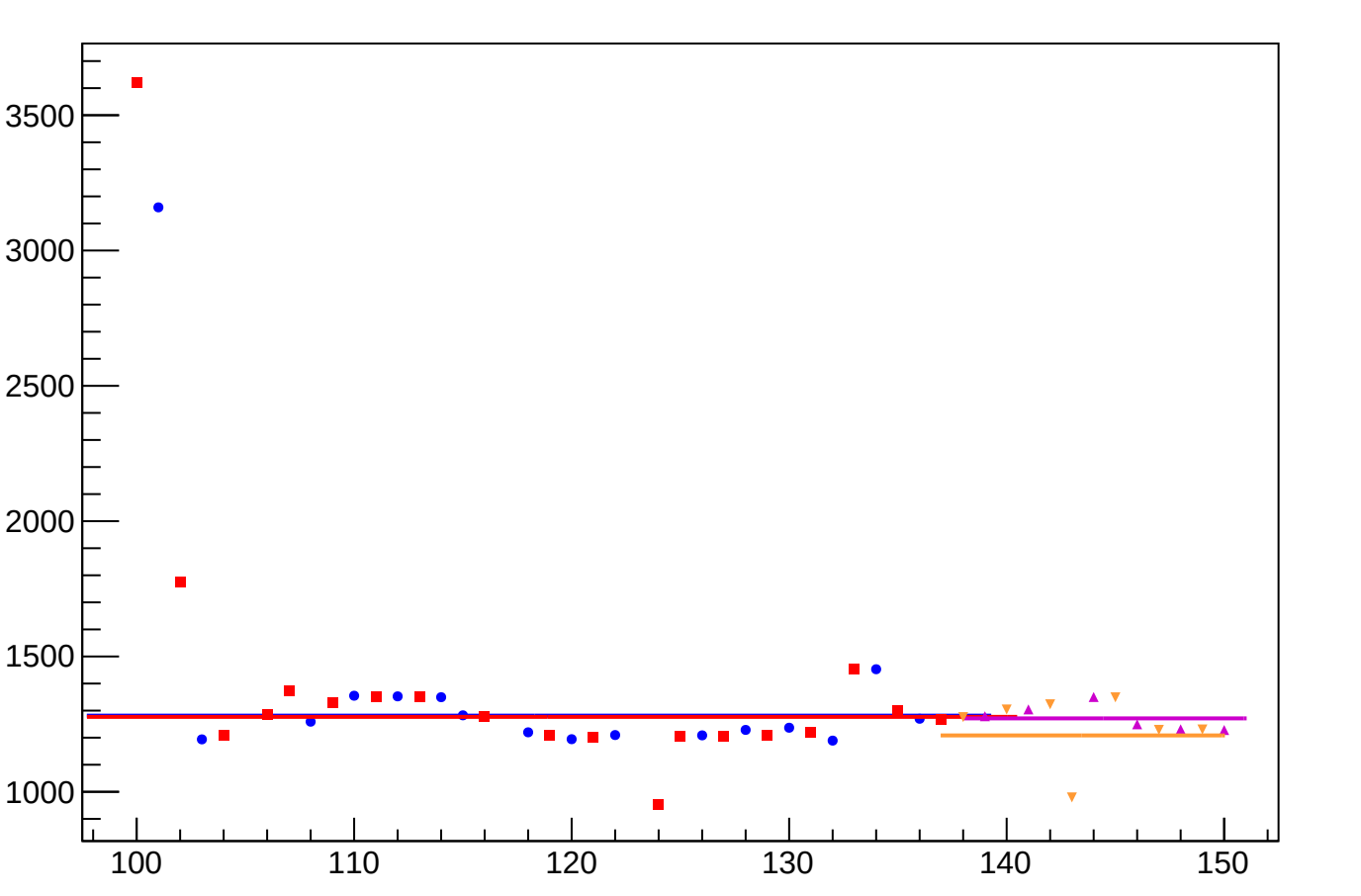
Left: -577.458+/-381.165 $\chi^2$/NDF: 18.2/12

Right: 54.354+/-340.175 $\chi^2$/NDF: 36.2/34

In: 216.268+/-365.108 $\chi^2$/NDF:22.3/21

Out: -639.078+/-353.048 $\chi^2$/NDF:30.8/25

All: -225.765+/-253.799 $\chi^2$/NDF: 56.0/47




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.6/15

Left Out: 1208.314+/-0.371 $\chi^2$/NDF:128093.5/6

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.5/18

Left In: 1271.256+/-0.392 $\chi^2$/NDF:11928.2/5

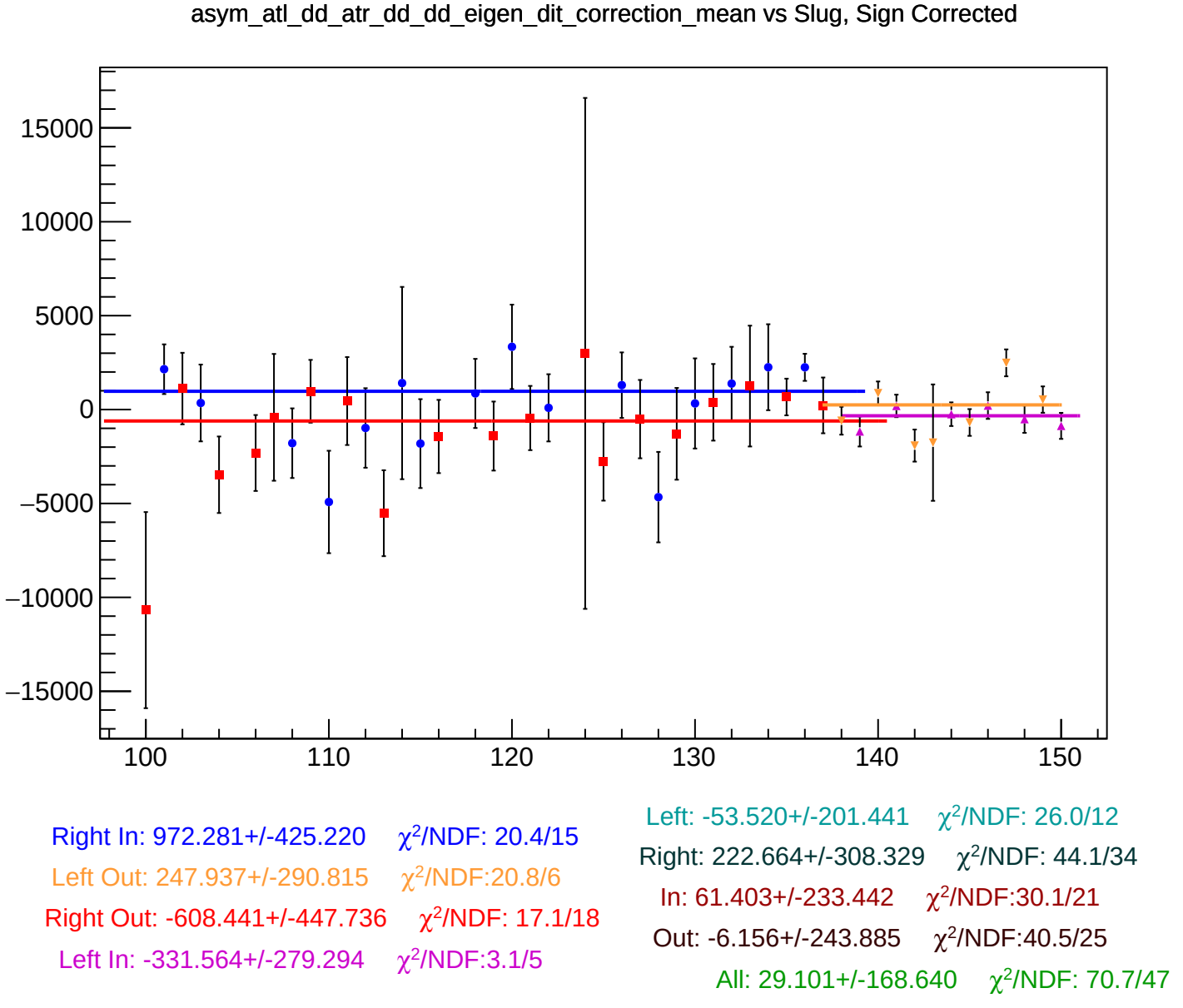
Left: 1238.115+/-0.270 $\chi^2$/NDF: 153617.3/12

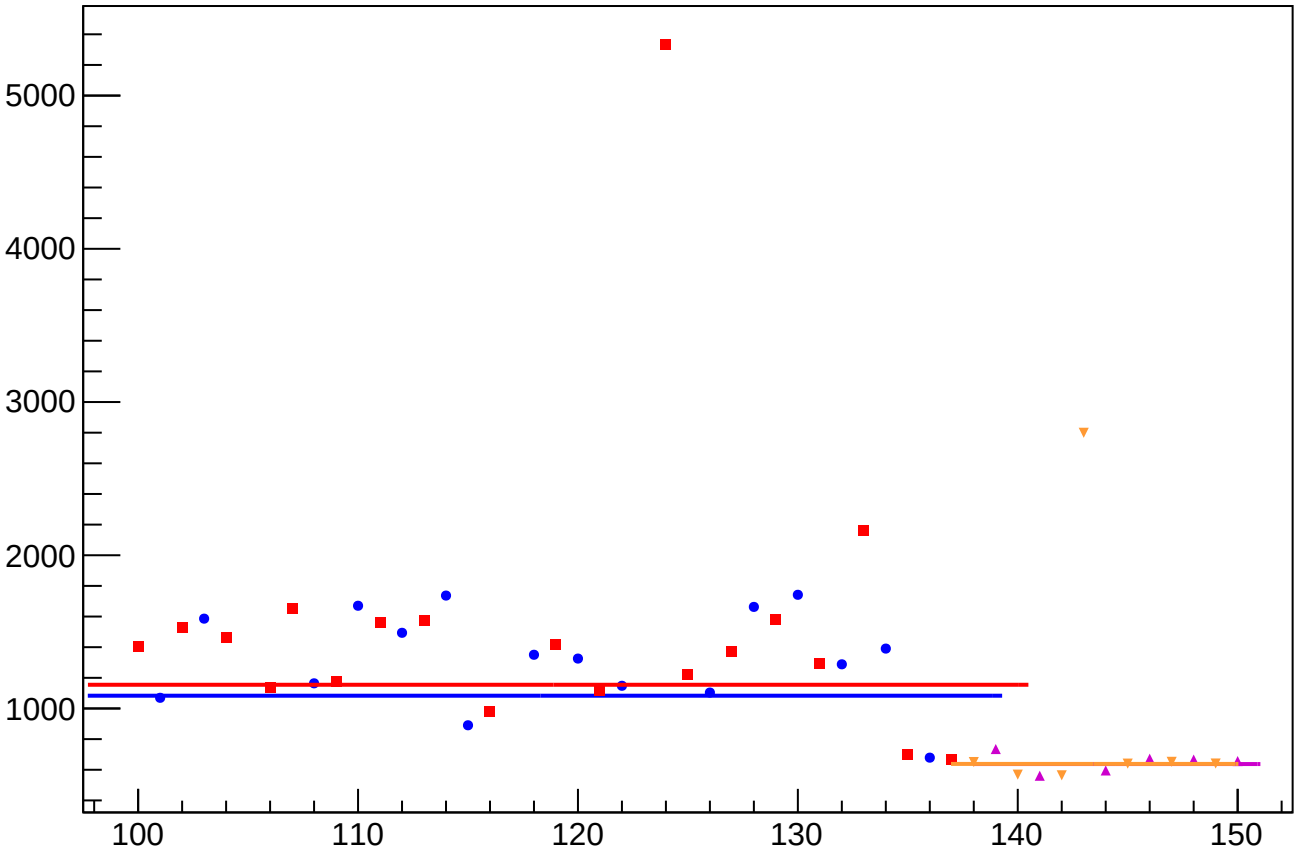
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1276.976+/-0.258 $\chi^2$/NDF:519383.7/21

Out: 1245.897+/-0.250 $\chi^2$/NDF:367279.2/25

All: 1260.914+/-0.179 $\chi^2$/NDF: 894152.0/47


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 972.281+/-425.220 χ²/NDF: 20.4/15
Left Out: 247.937+/-290.815 χ²/NDF:20.8/6
Right Out: -608.441+/-447.736 χ²/NDF: 17.1/18
Left In: -331.564+/-279.294 χ²/NDF:3.1/5
Left: -53.520+/-201.441 χ²/NDF: 26.0/12
Right: 222.664+/-308.329 χ²/NDF: 44.1/34
In: 61.403+/-233.442 χ²/NDF:30.1/21
Out: -6.156+/-243.885 χ²/NDF:40.5/25
All: 29.101+/-168.640 χ²/NDF: 70.7/47




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 638.125+/-0.206 $\chi^2$/NDF:1014468.0/6

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 637.333+/-0.197 $\chi^2$/NDF:80884.4/5

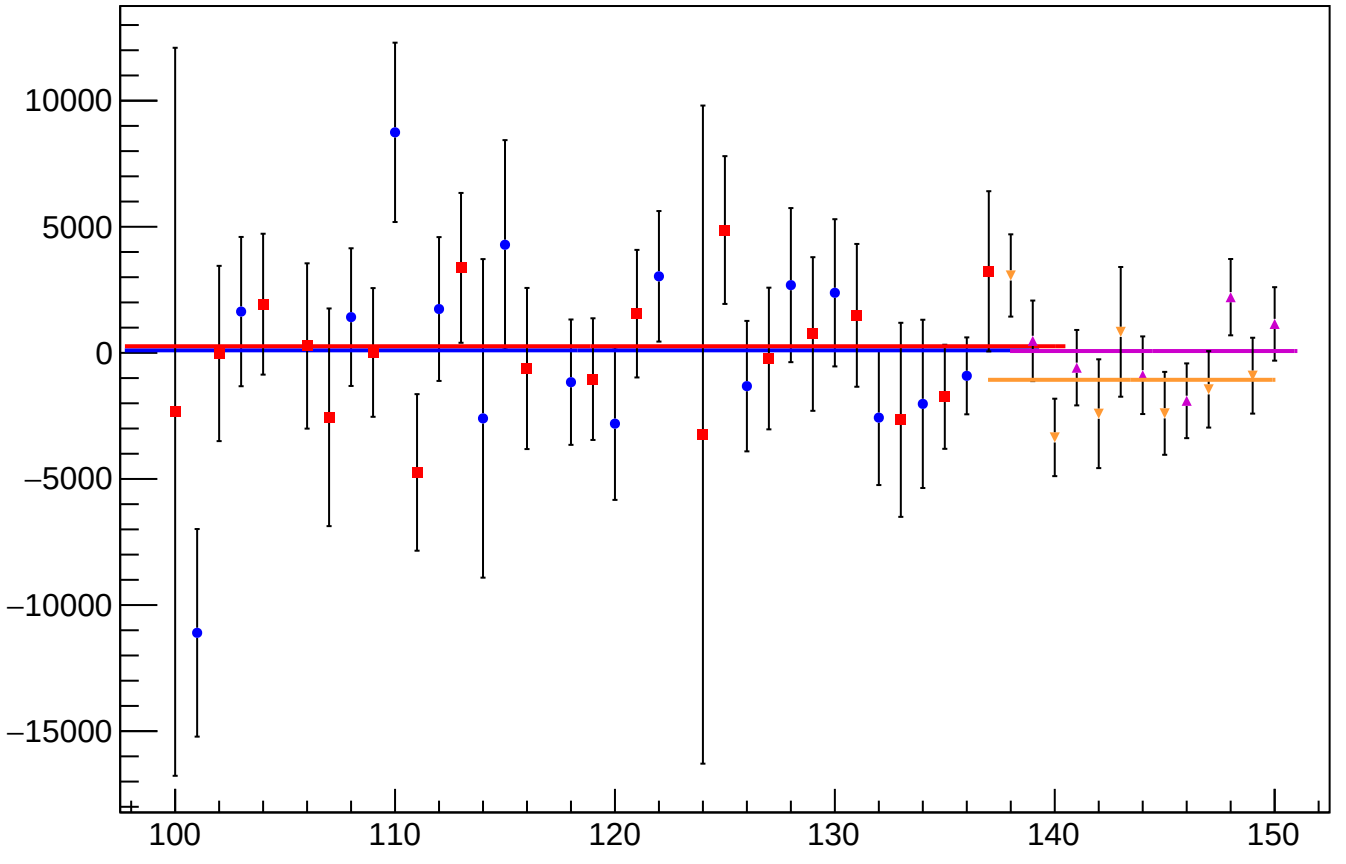
Left: 637.713+/-0.142 $\chi^2$/NDF: 1095360.2/12

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 771.755+/-0.165 $\chi^2$/NDF:2978152.5/21

Out: 791.406+/-0.172 $\chi^2$/NDF:4375310.0/25

All: 781.151+/-0.119 $\chi^2$/NDF: 7360238.2/47




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -1068.414+/-643.809 $\chi^2$/NDF:10.3/6

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: 72.772+/-617.311 $\chi^2$/NDF:5.0/5

Left: -473.854+/-445.578 $\chi^2$/NDF: 16.9/12

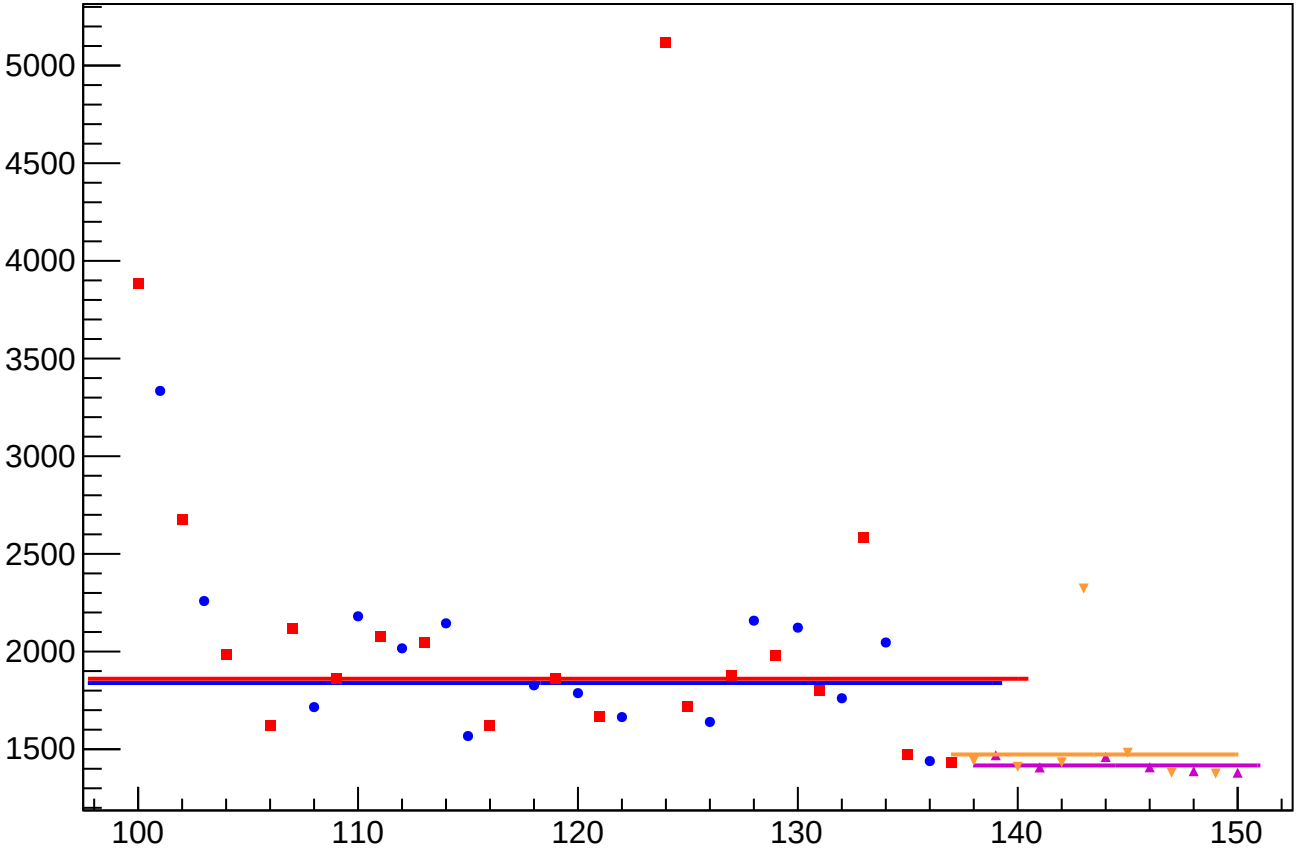
Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: 84.901+/-462.699 $\chi^2$/NDF:26.2/21

Out: -458.146+/-473.778 $\chi^2$/NDF:22.6/25

All: -180.199+/-331.025 $\chi^2$/NDF: 49.5/47

# asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1473.121+/-0.455 $\chi^2$/NDF:239086.8/6

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1416.951+/-0.437 $\chi^2$/NDF:5960.6/5

Left: 1443.856+/-0.315 $\chi^2$/NDF: 252979.0/12

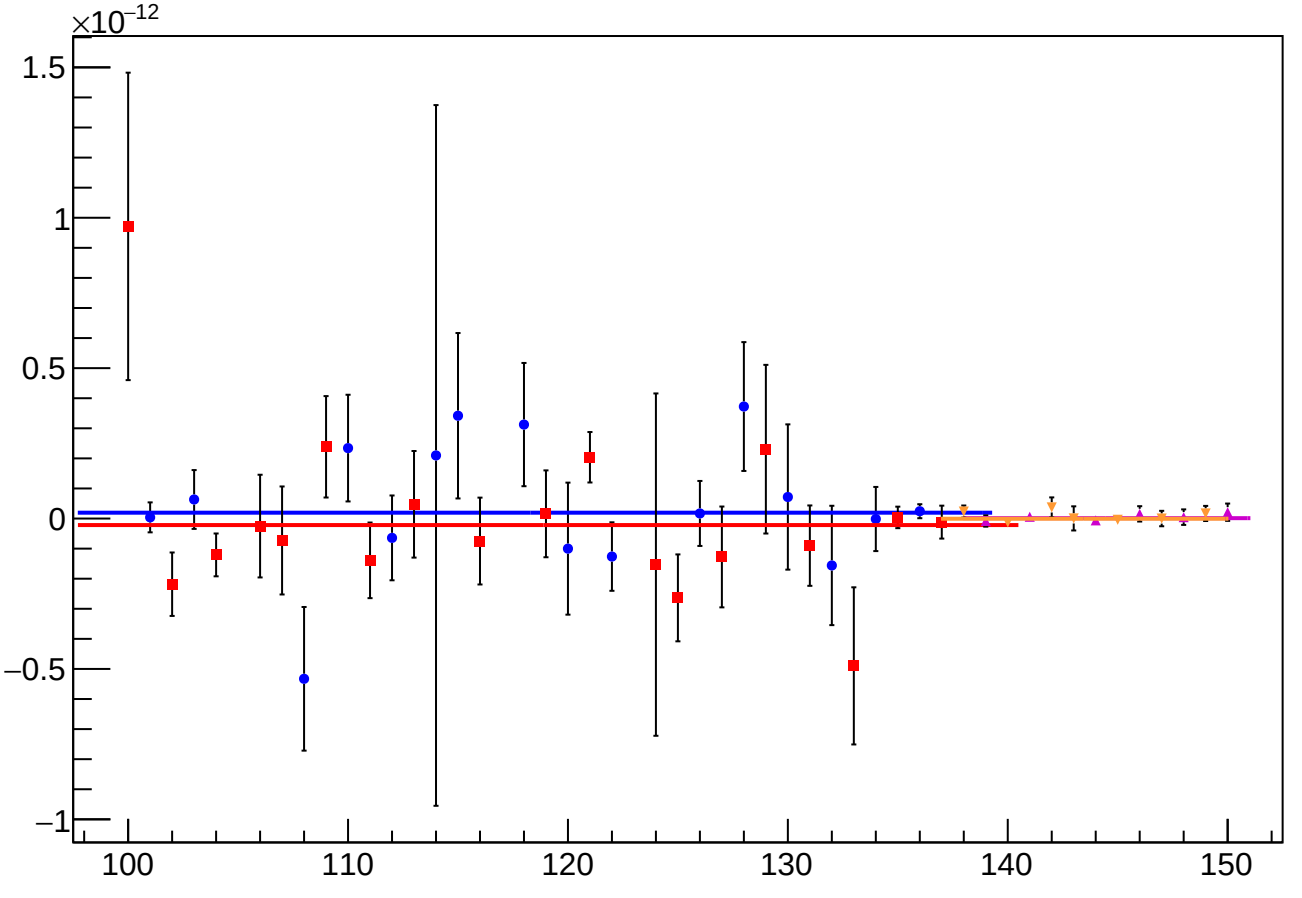
Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1601.939+/-0.327 $\chi^2$/NDF:972554.4/21

Out: 1650.835+/-0.335 $\chi^2$/NDF:1093599.1/25

All: 1625.809+/-0.234 $\chi^2$/NDF: 2077056.6/47

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/5

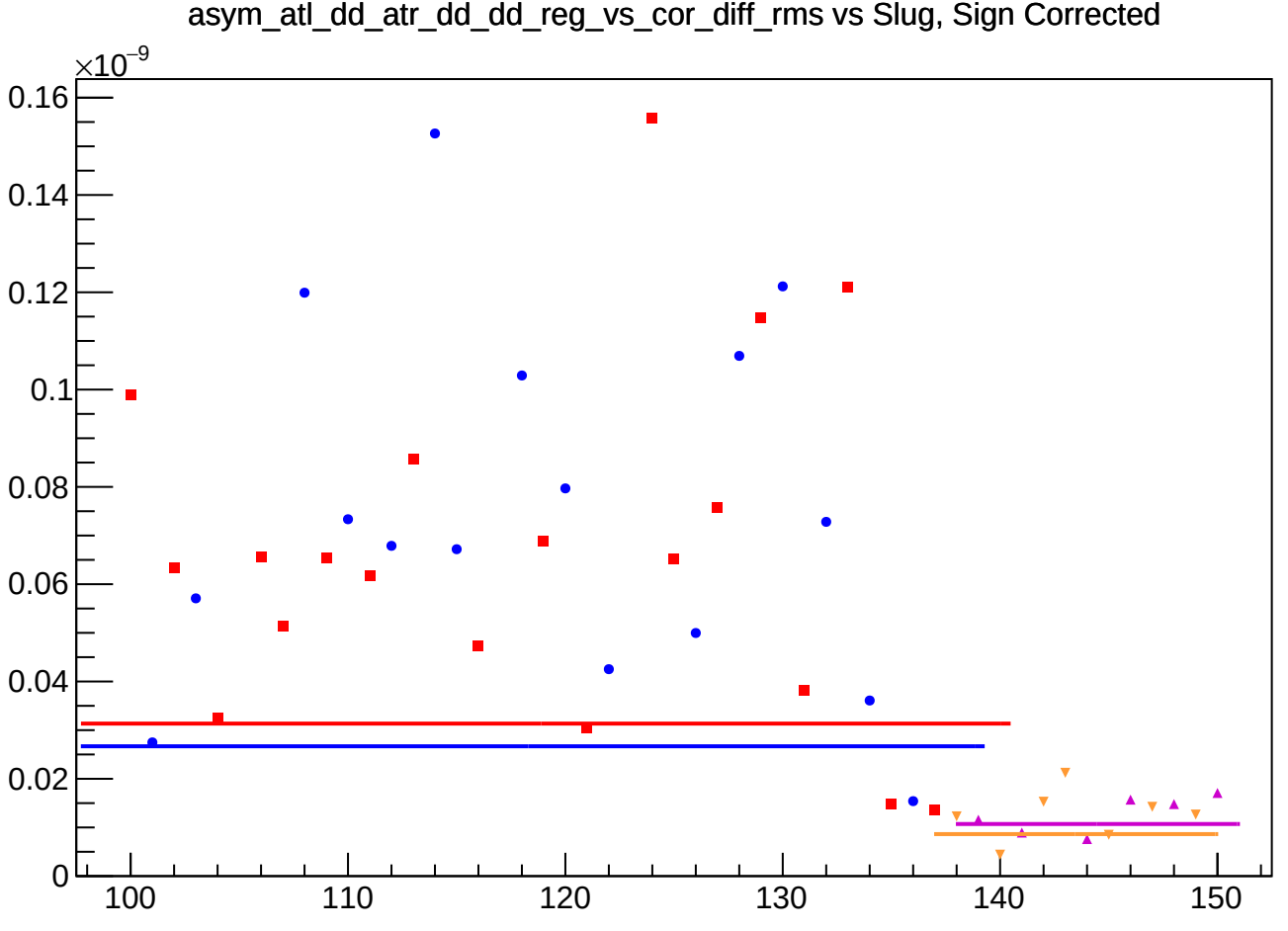
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 52.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2580672.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:802333.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2275167.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:362166.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1242599.4/12

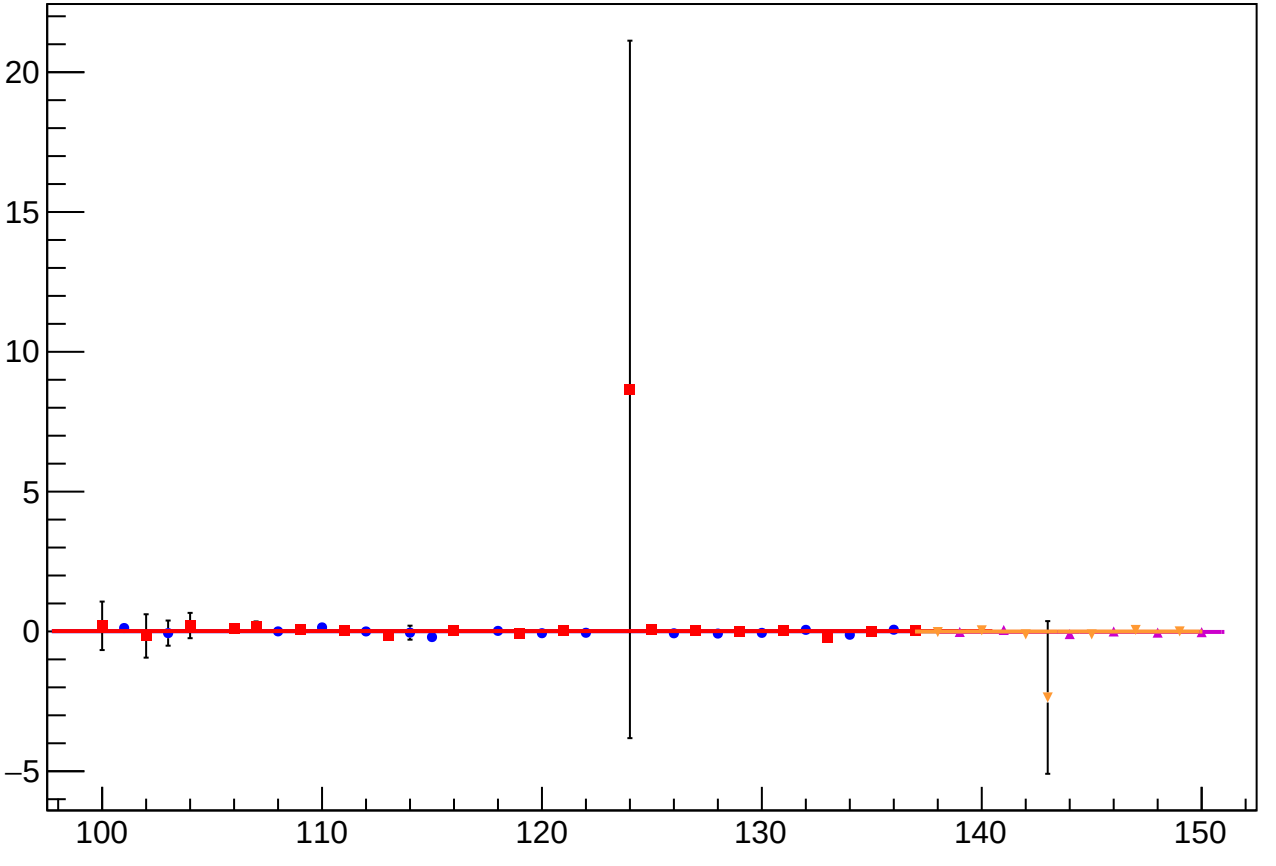
Right: 0.000+/-0.000 $\chi^2$/NDF: 4906978.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4174768.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4964948.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9254186.7/47

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

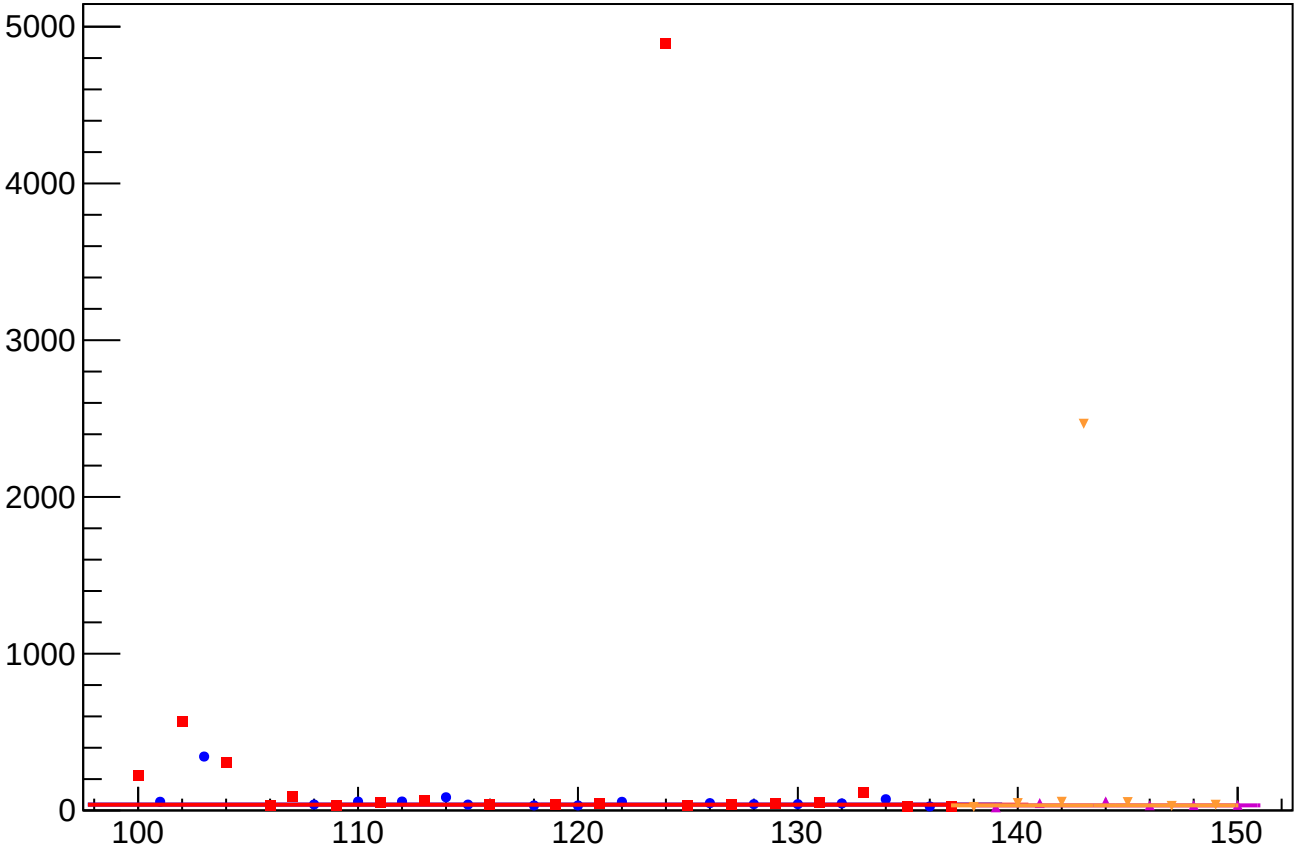
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.7/47

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 32.526+/-0.012 $\chi^2$/NDF:2412295.8/6

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 32.499+/-0.011 $\chi^2$/NDF:904074.5/5

Left: 32.512+/-0.008 $\chi^2$/NDF: 3316372.9/12

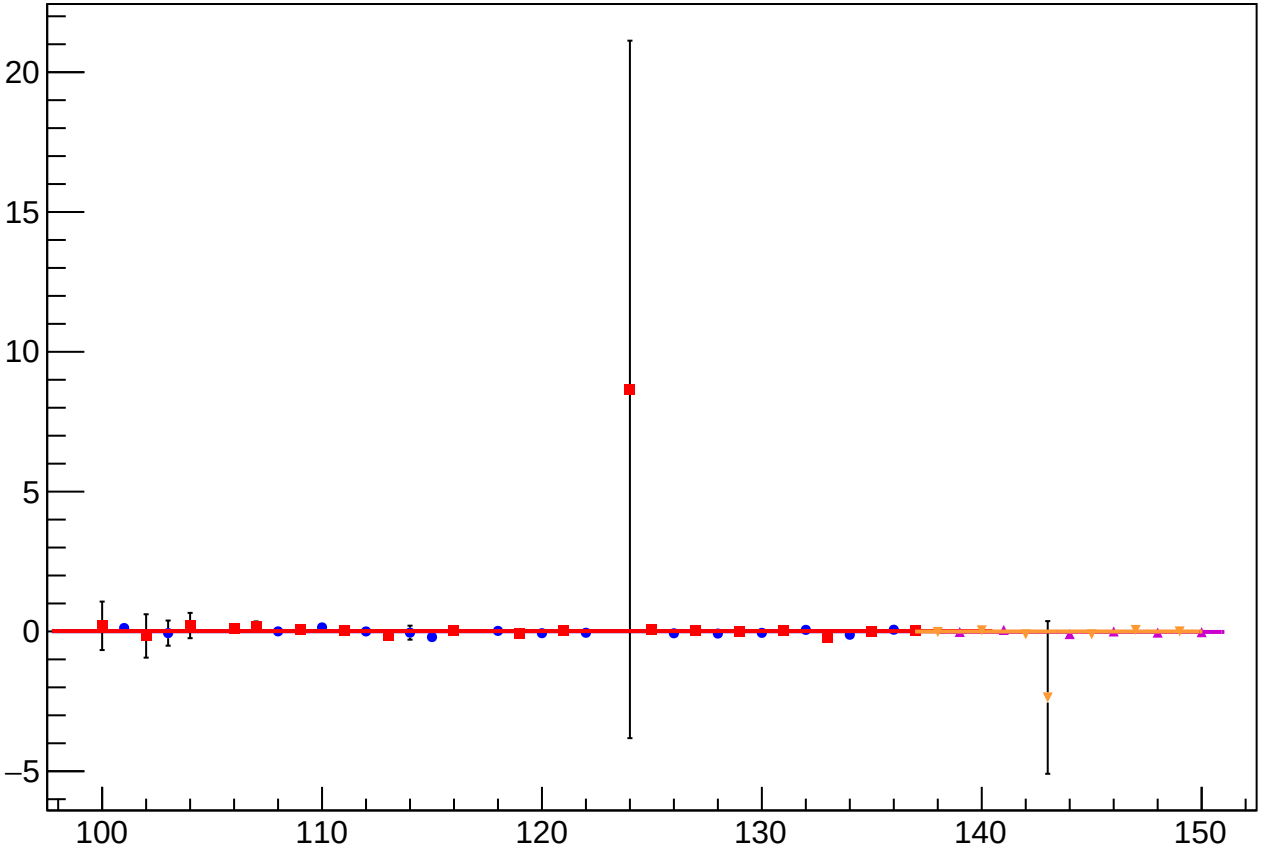
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.985+/-0.008 $\chi^2$/NDF:2984322.9/21

Out: 34.716+/-0.008 $\chi^2$/NDF:5665993.4/25

All: 34.857+/-0.006 $\chi^2$/NDF: 8650849.6/47

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

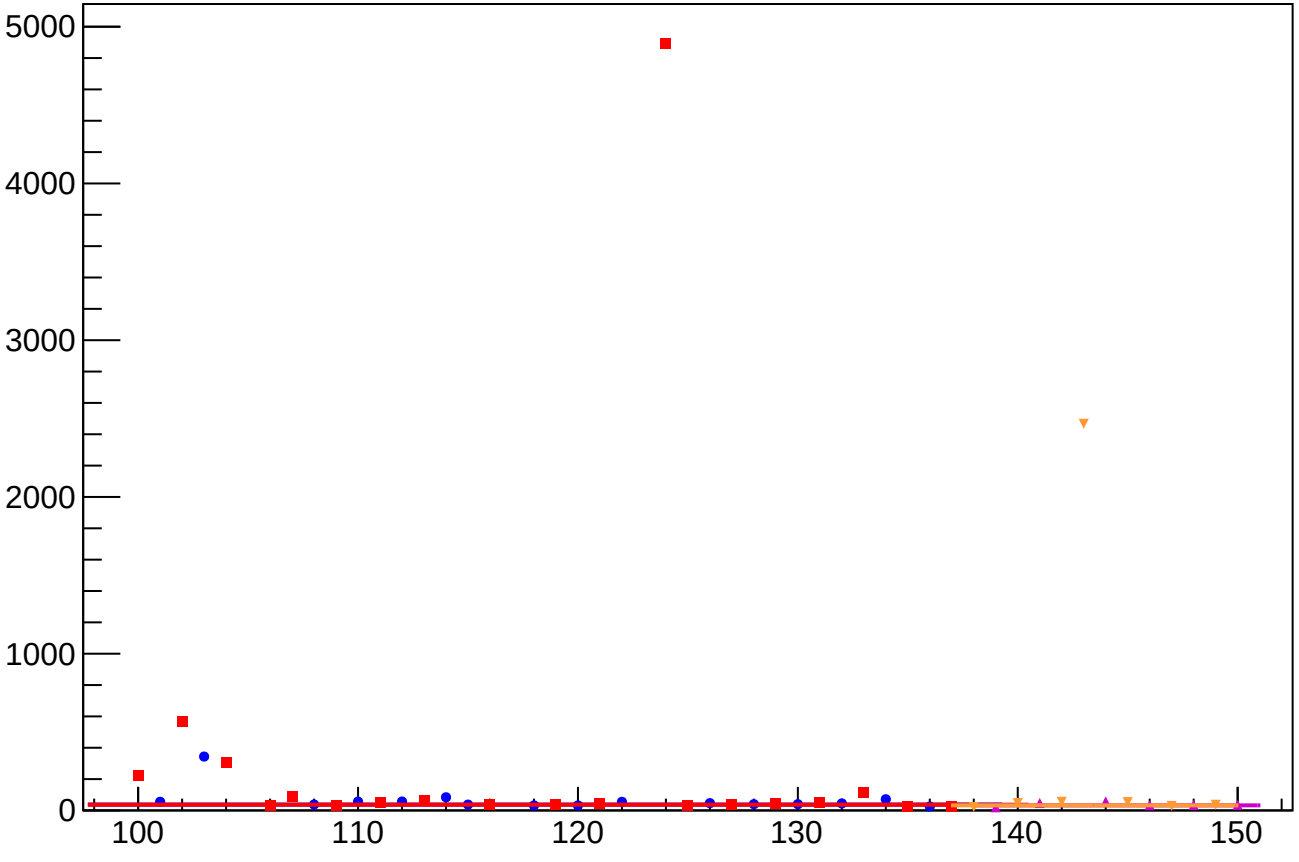
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.7/47

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 32.526+/-0.012 $\chi^2$/NDF:2412295.8/6

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 32.499+/-0.011 $\chi^2$/NDF:904074.5/5

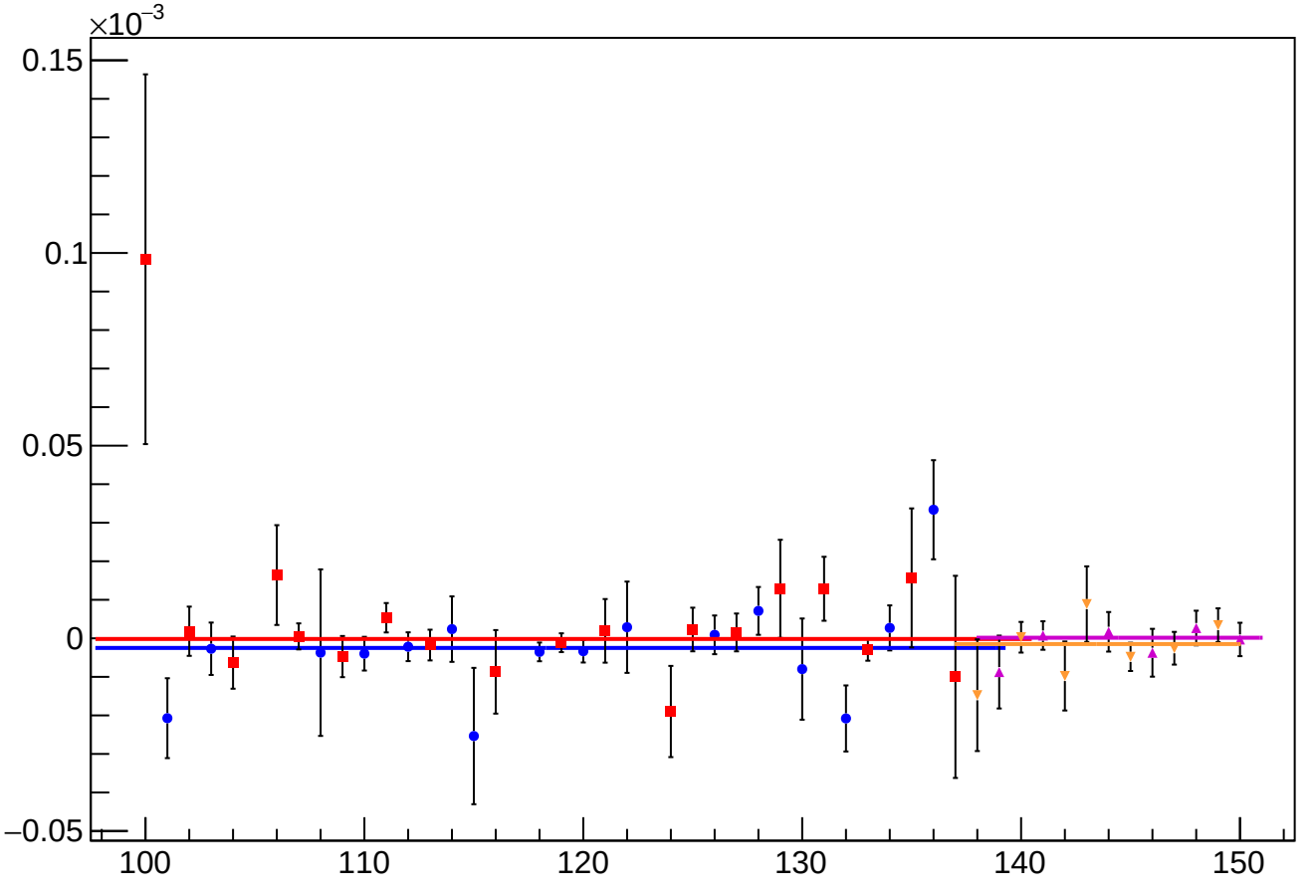
Left: 32.512+/-0.008 $\chi^2$/NDF: 3316372.9/12

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.985+/-0.008 $\chi^2$/NDF:2984322.9/21

Out: 34.716+/-0.008 $\chi^2$/NDF:5665993.4/25

All: 34.857+/-0.006 $\chi^2$/NDF: 8650849.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 7.2/12

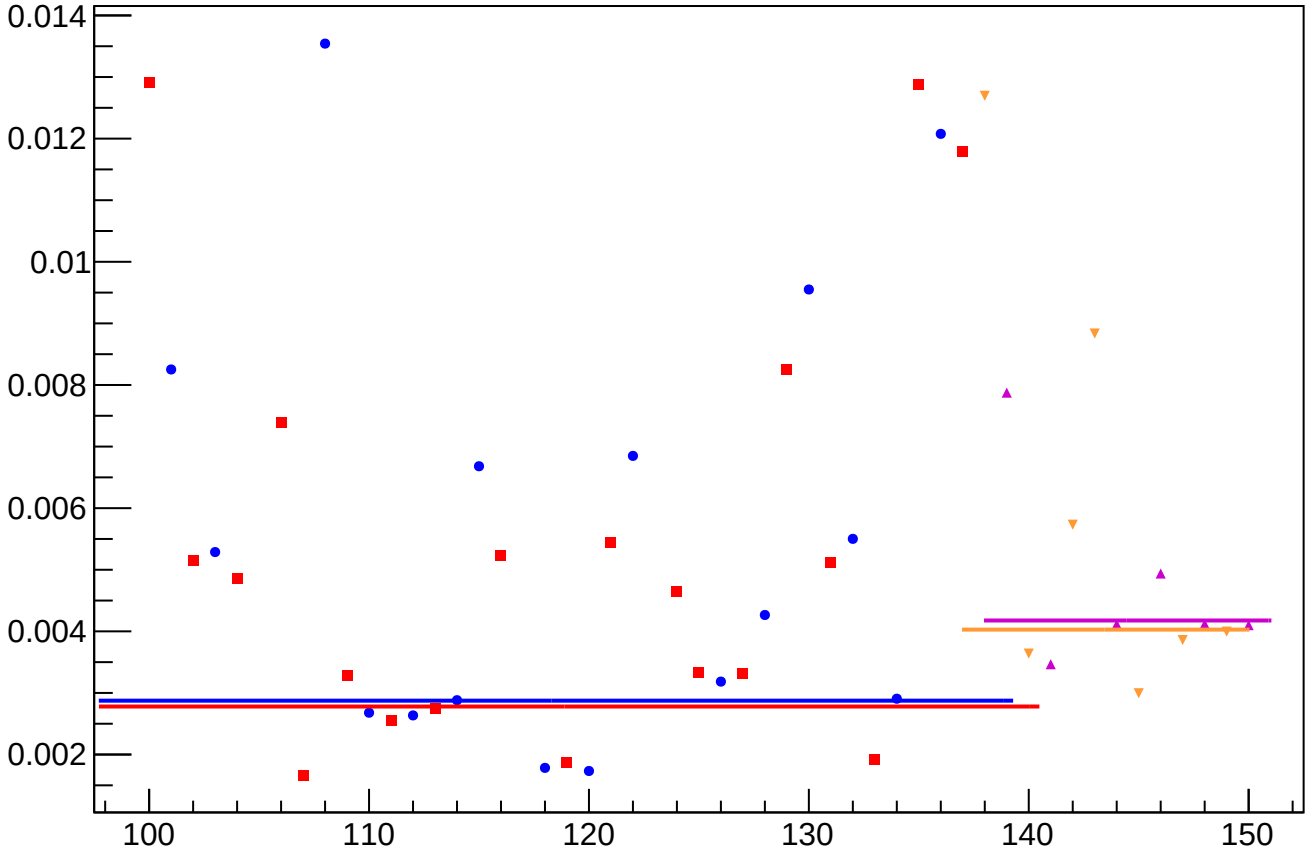
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:24.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 49.8/47

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1449222.5/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:411345.4/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 1866304.0/12

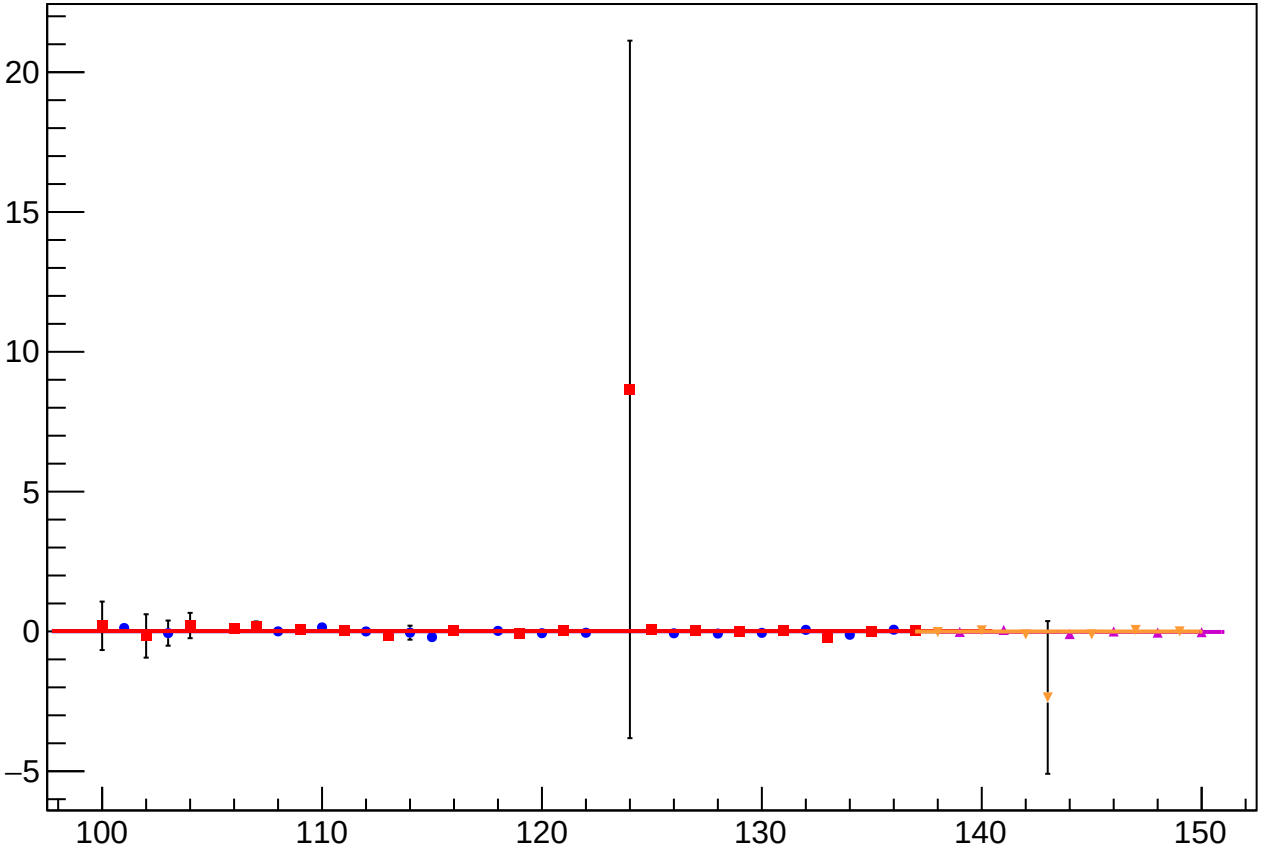
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:5159161.2/21

Out: 0.003+/-0.000 $\chi^2$/NDF:5378885.6/25

All: 0.003+/-0.000 $\chi^2$/NDF: 10556892.7/47

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

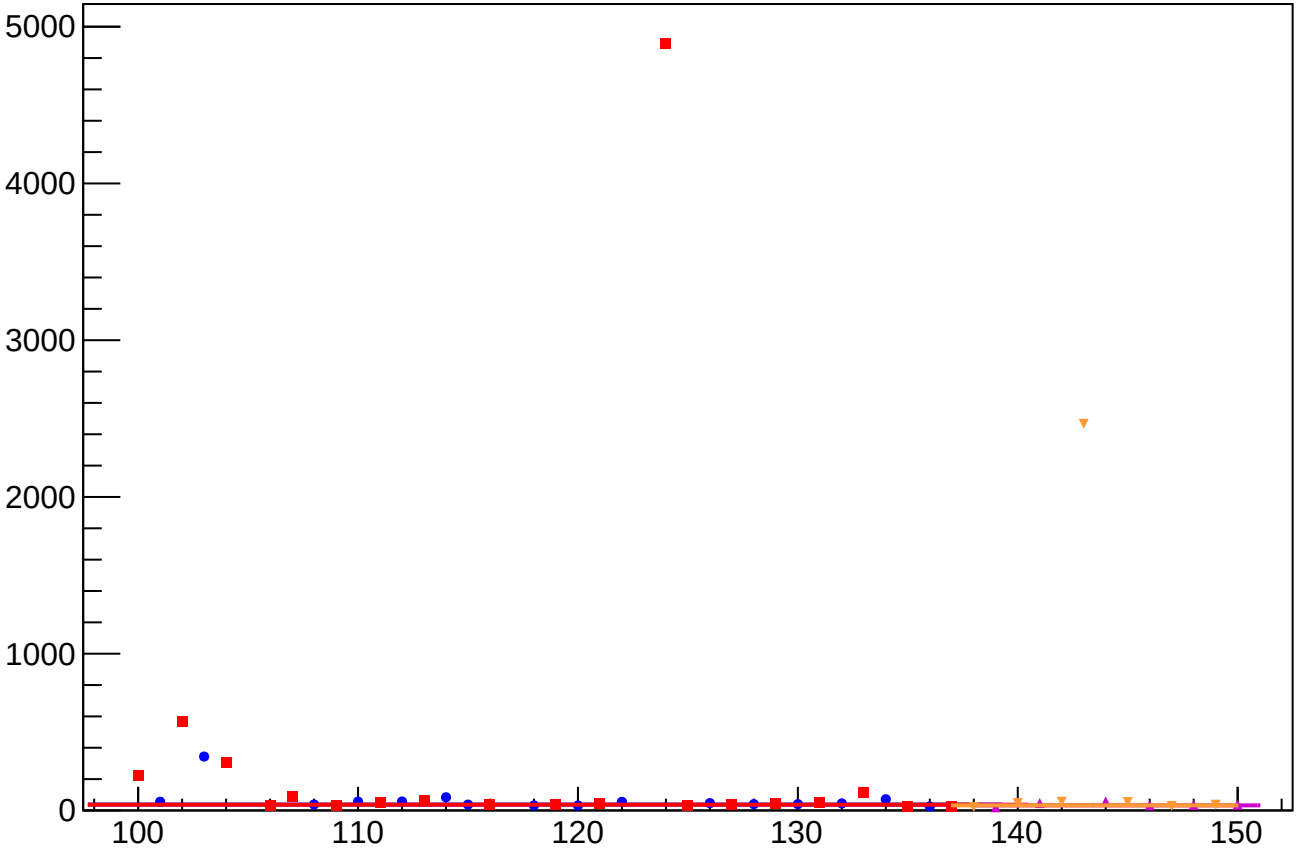
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.8/47

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 32.523+/-0.012 $\chi^2$/NDF:2412617.4/6

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 32.504+/-0.011 $\chi^2$/NDF:903285.4/5

Left: 32.513+/-0.008 $\chi^2$/NDF: 3315904.1/12

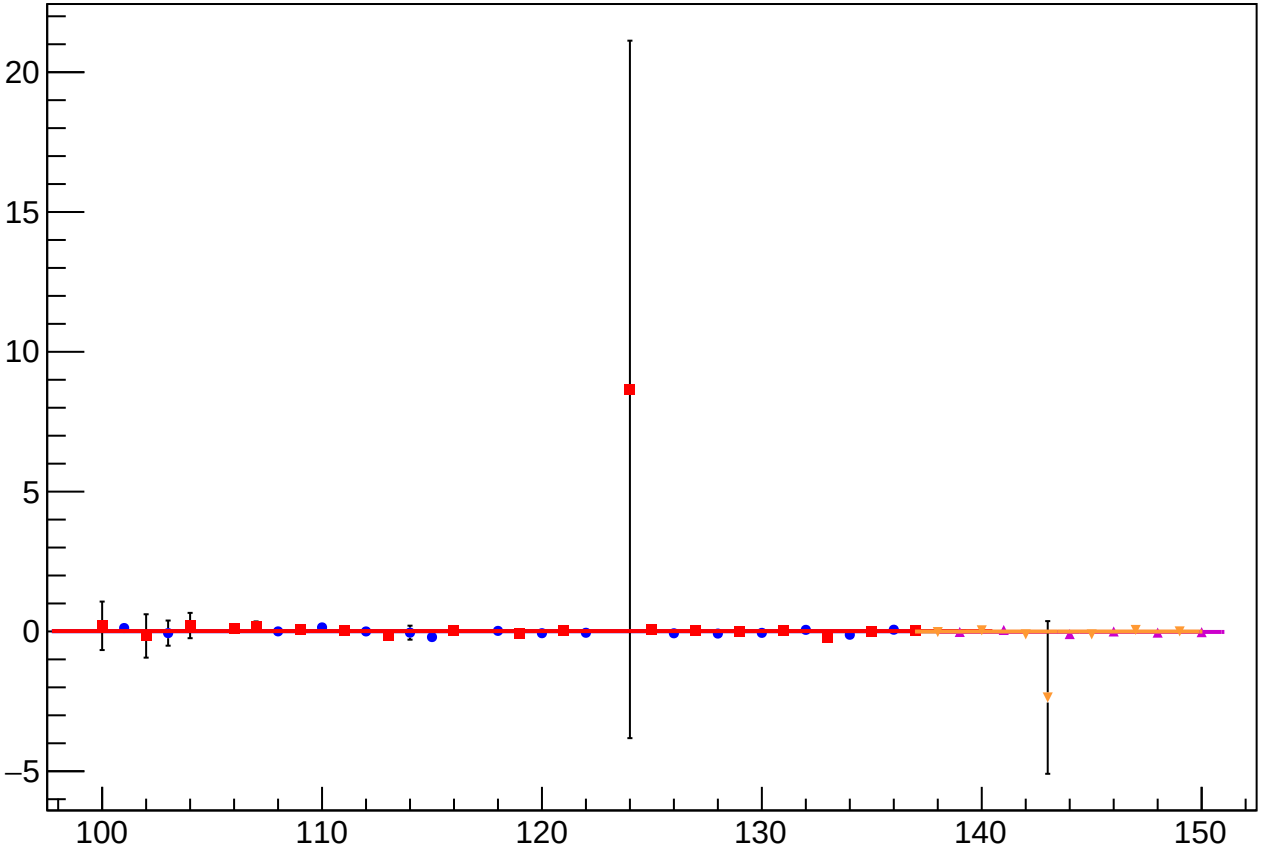
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.987+/-0.008 $\chi^2$/NDF:2983311.3/21

Out: 34.715+/-0.008 $\chi^2$/NDF:5666166.4/25

All: 34.858+/-0.006 $\chi^2$/NDF: 8650024.8/47

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

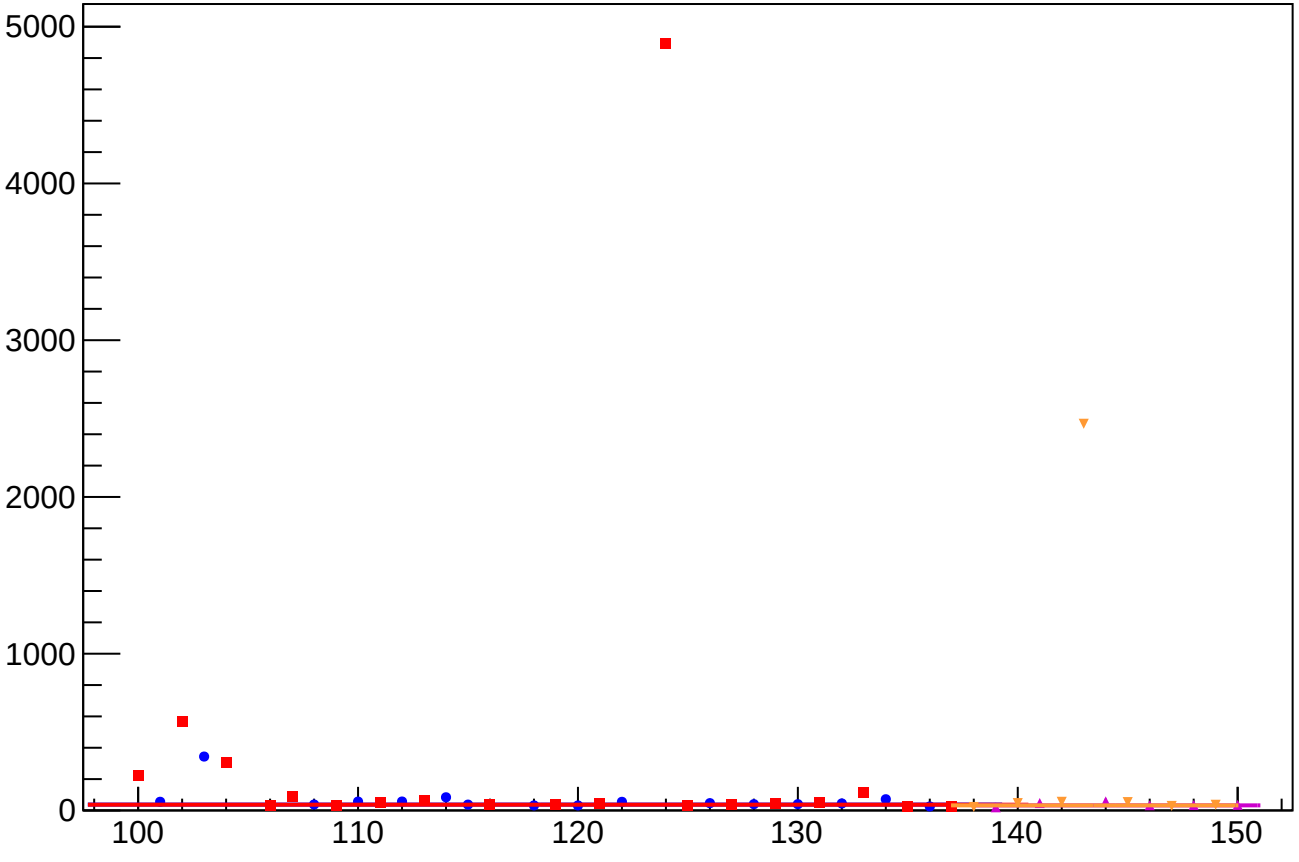
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.8/47

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 32.523+/-0.012 $\chi^2$/NDF:2412617.4/6

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 32.504+/-0.011 $\chi^2$/NDF:903285.4/5

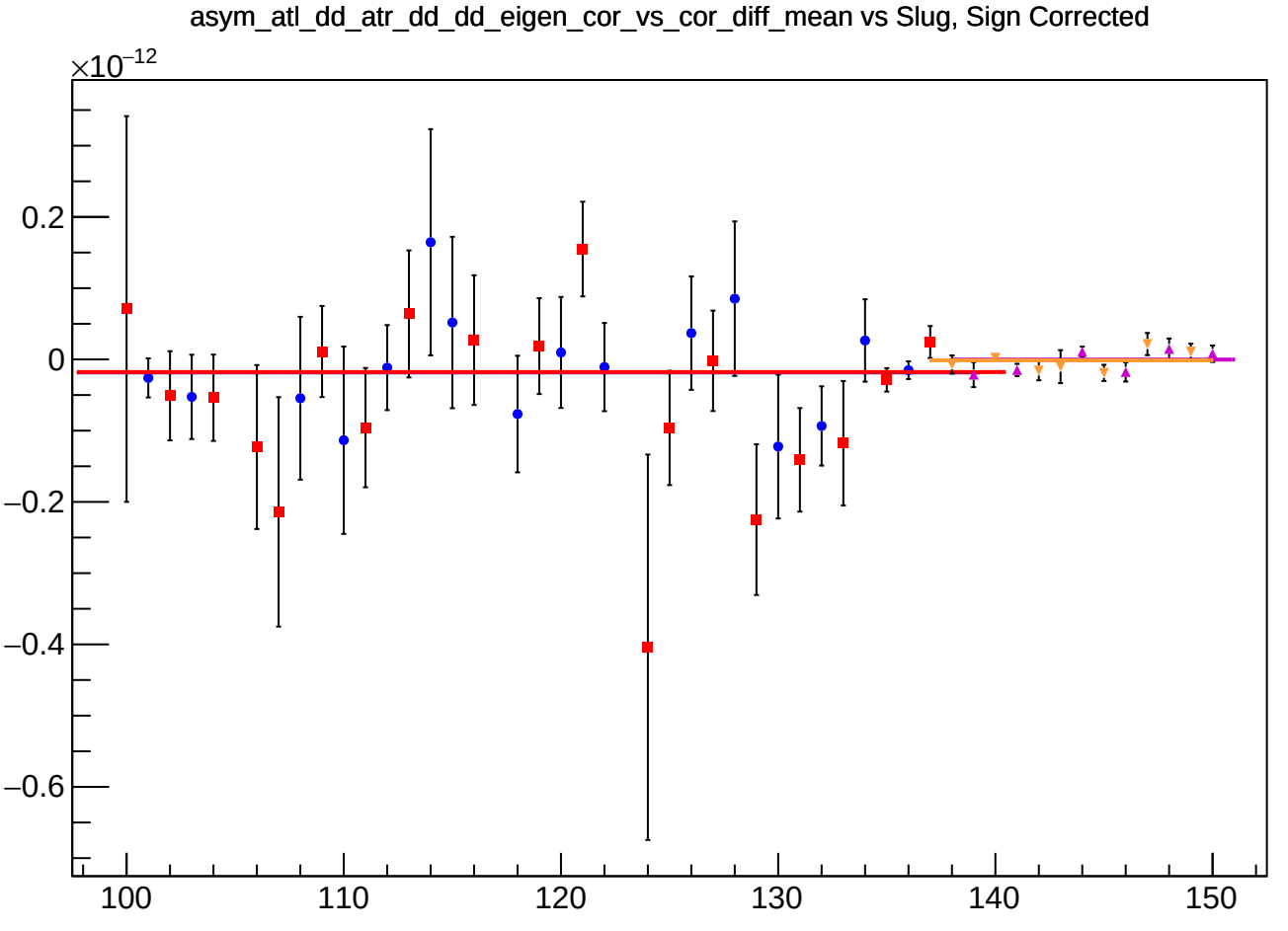
Left: 32.513+/-0.008 $\chi^2$/NDF: 3315904.1/12

Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.987+/-0.008 $\chi^2$/NDF:2983311.3/21

Out: 34.715+/-0.008 $\chi^2$/NDF:5666166.4/25

All: 34.858+/-0.006 $\chi^2$/NDF: 8650024.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.0/5

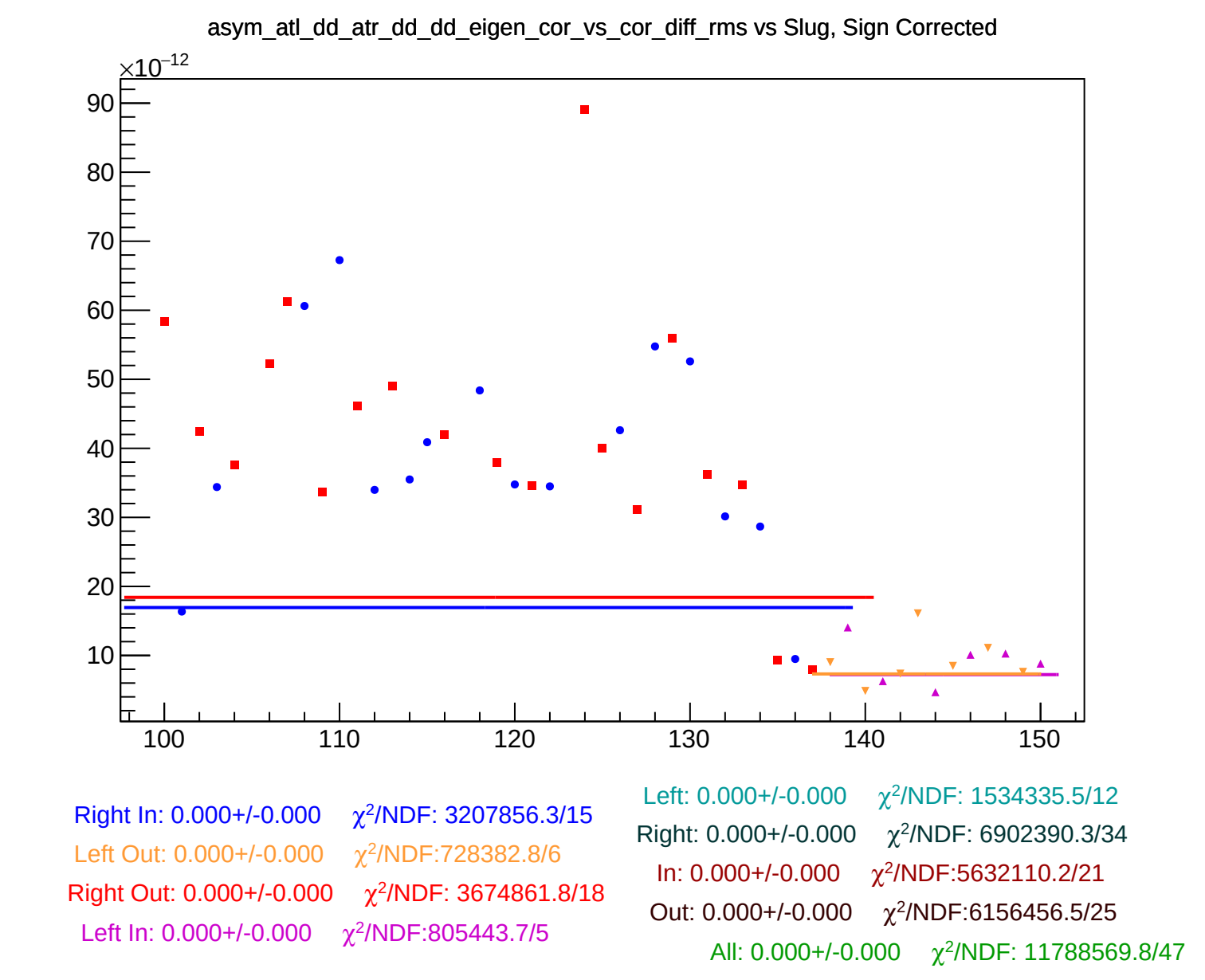
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.5/12

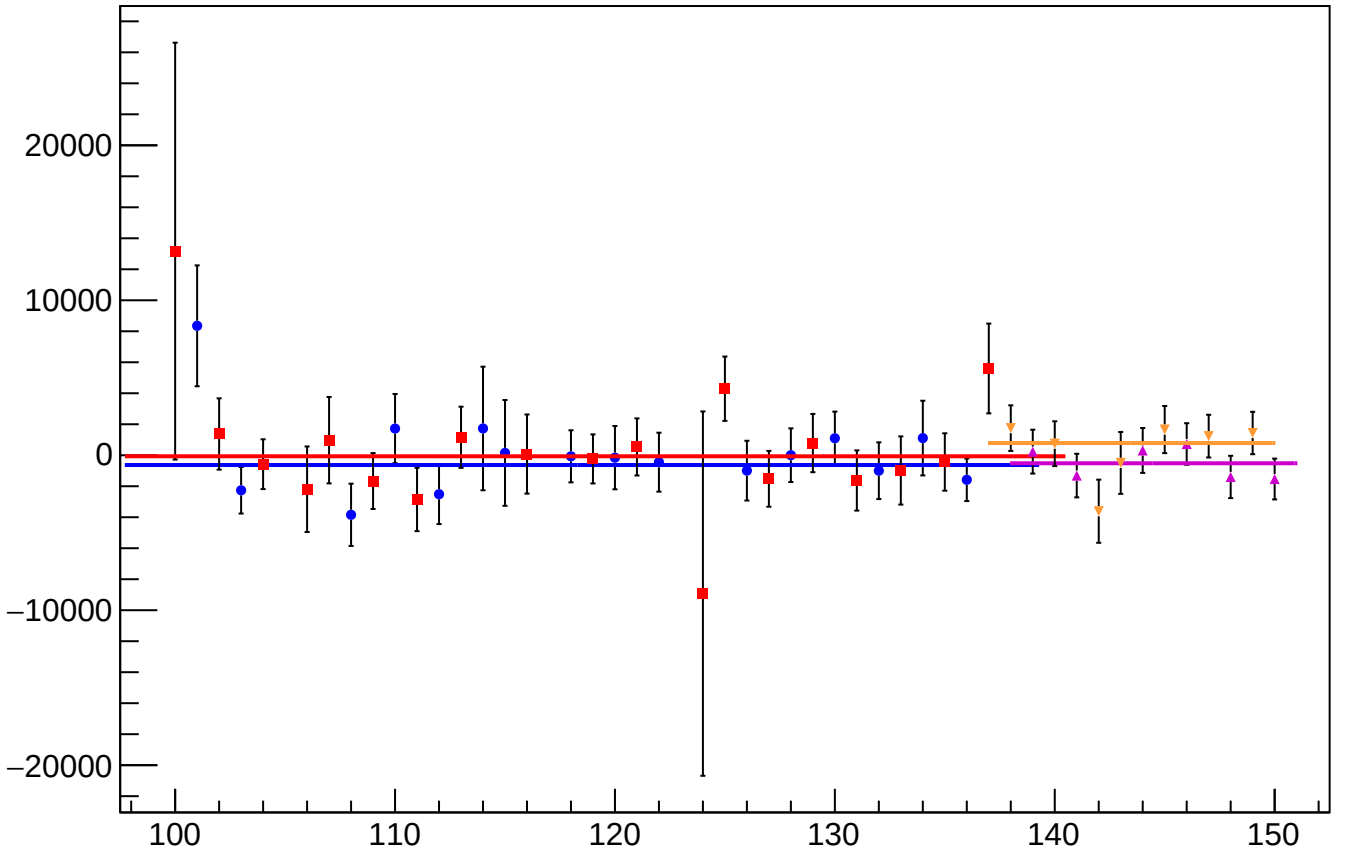
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:36.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.7/47


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3207856.3/15
Left Out: 0.000+/-0.000 χ²/NDF:728382.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 3674861.8/18
Left In: 0.000+/-0.000 χ²/NDF:805443.7/5
Left: 0.000+/-0.000 χ²/NDF: 1534335.5/12
Right: 0.000+/-0.000 χ²/NDF: 6902390.3/34
In: 0.000+/-0.000 χ²/NDF:5632110.2/21
Out: 0.000+/-0.000 χ²/NDF:6156456.5/25
All: 0.000+/-0.000 χ²/NDF: 11788569.8/47




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.631+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -517.647+/-563.232 $\chi^2$/NDF:2.8/5

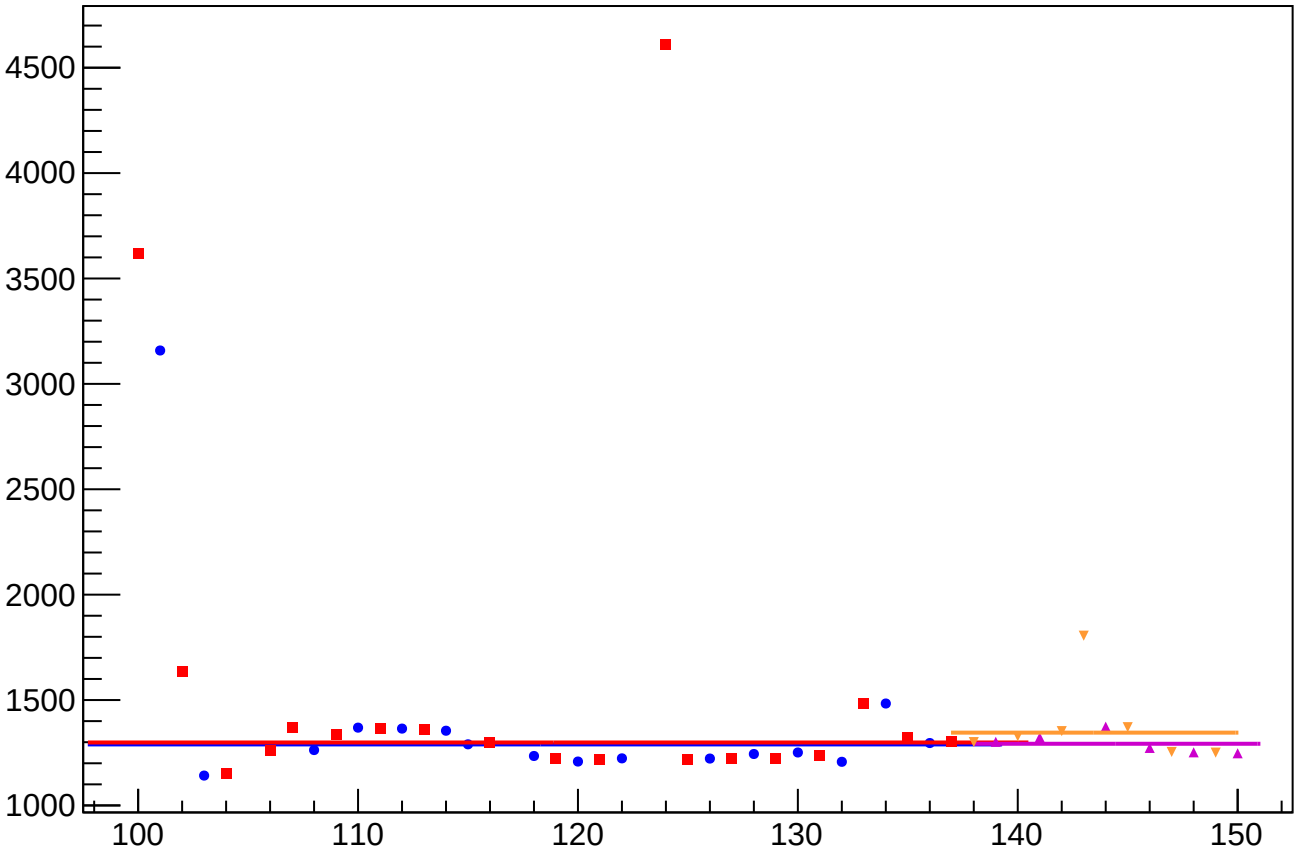
Left: 109.994+/-405.677 $\chi^2$/NDF: 11.6/12

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -582.342+/-369.106 $\chi^2$/NDF:16.7/21

Out: 282.830+/-374.574 $\chi^2$/NDF:23.3/25

All: -156.118+/-262.909 $\chi^2$/NDF: 42.7/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

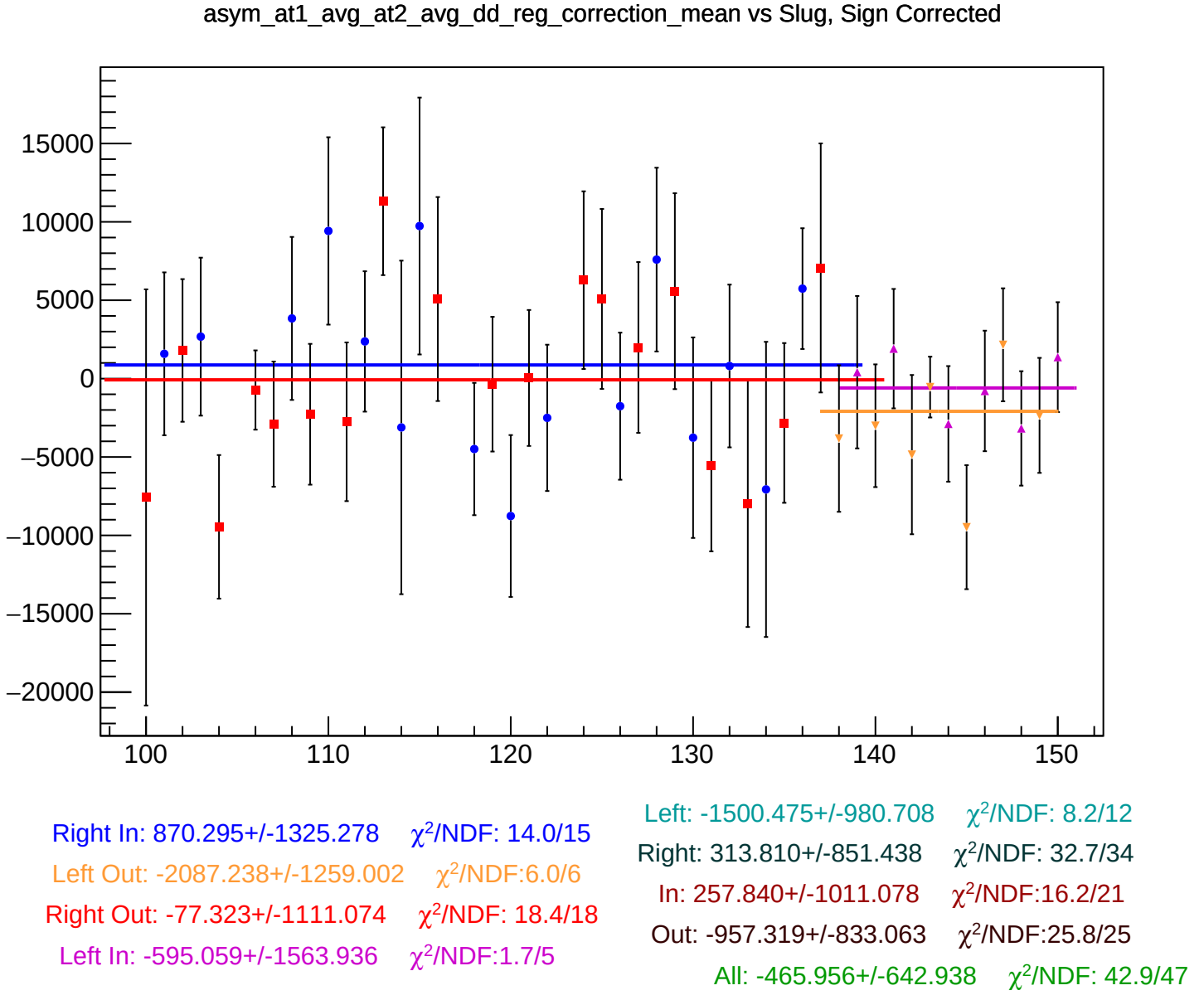
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

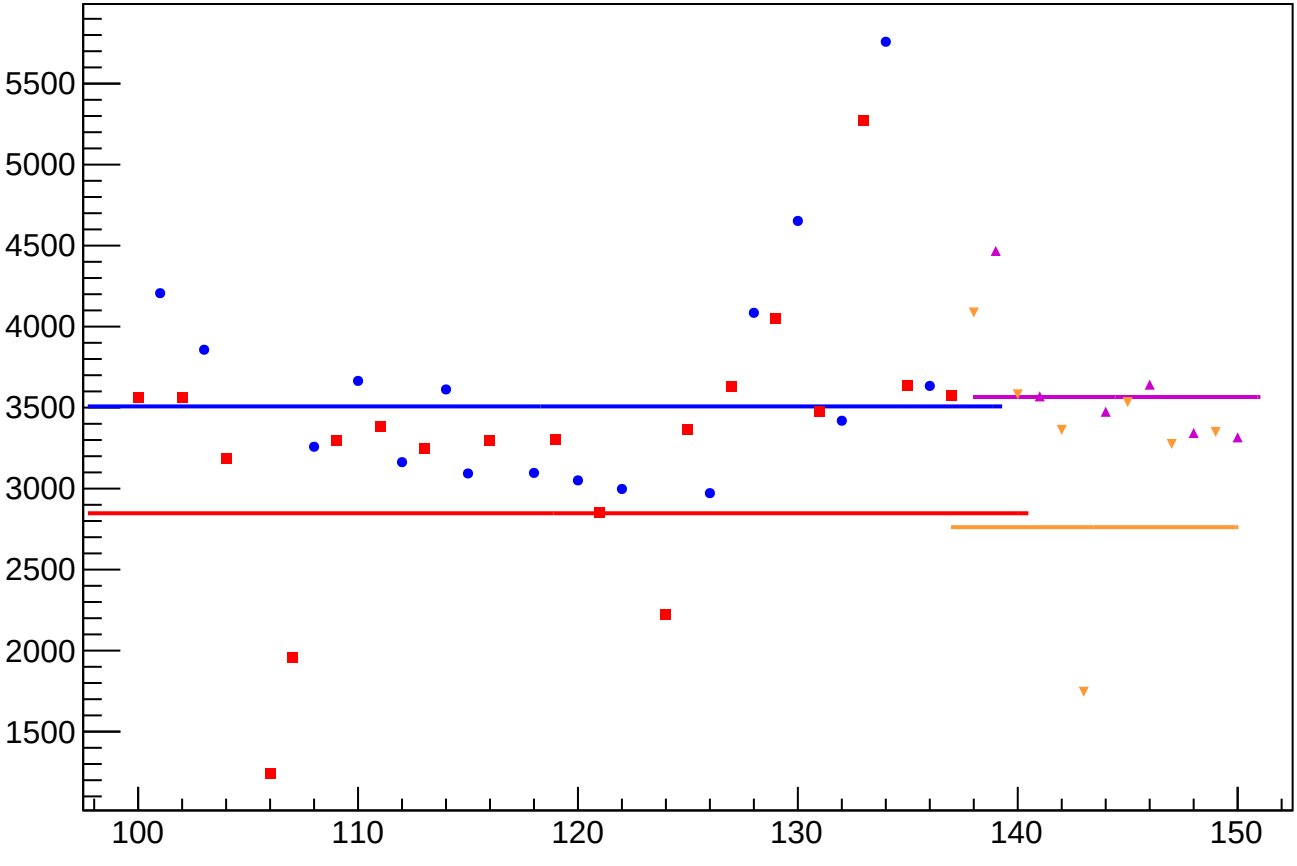
In: 1290.793+/-0.261 $\chi^2$/NDF:526539.1/21

Out: 1317.766+/-0.264 $\chi^2$/NDF:454067.0/25

All: 1304.102+/-0.186 $\chi^2$/NDF: 985876.0/47


asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 870.295+/-1325.278 χ²/NDF: 14.0/15
Left Out: -2087.238+/-1259.002 χ²/NDF:6.0/6
Right Out: -77.323+/-1111.074 χ²/NDF: 18.4/18
Left In: -595.059+/-1563.936 χ²/NDF:1.7/5
Left: -1500.475+/-980.708 χ²/NDF: 8.2/12
Right: 313.810+/-851.438 χ²/NDF: 32.7/34
In: 257.840+/-1011.078 χ²/NDF:16.2/21
Out: -957.319+/-833.063 χ²/NDF:25.8/25
All: -465.956+/-642.938 χ²/NDF: 42.9/47

asym_at1_avg_at2_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2761.911+/-0.890 $\chi^2$/NDF:993241.5/6

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3565.427+/-1.106 $\chi^2$/NDF:88295.7/5

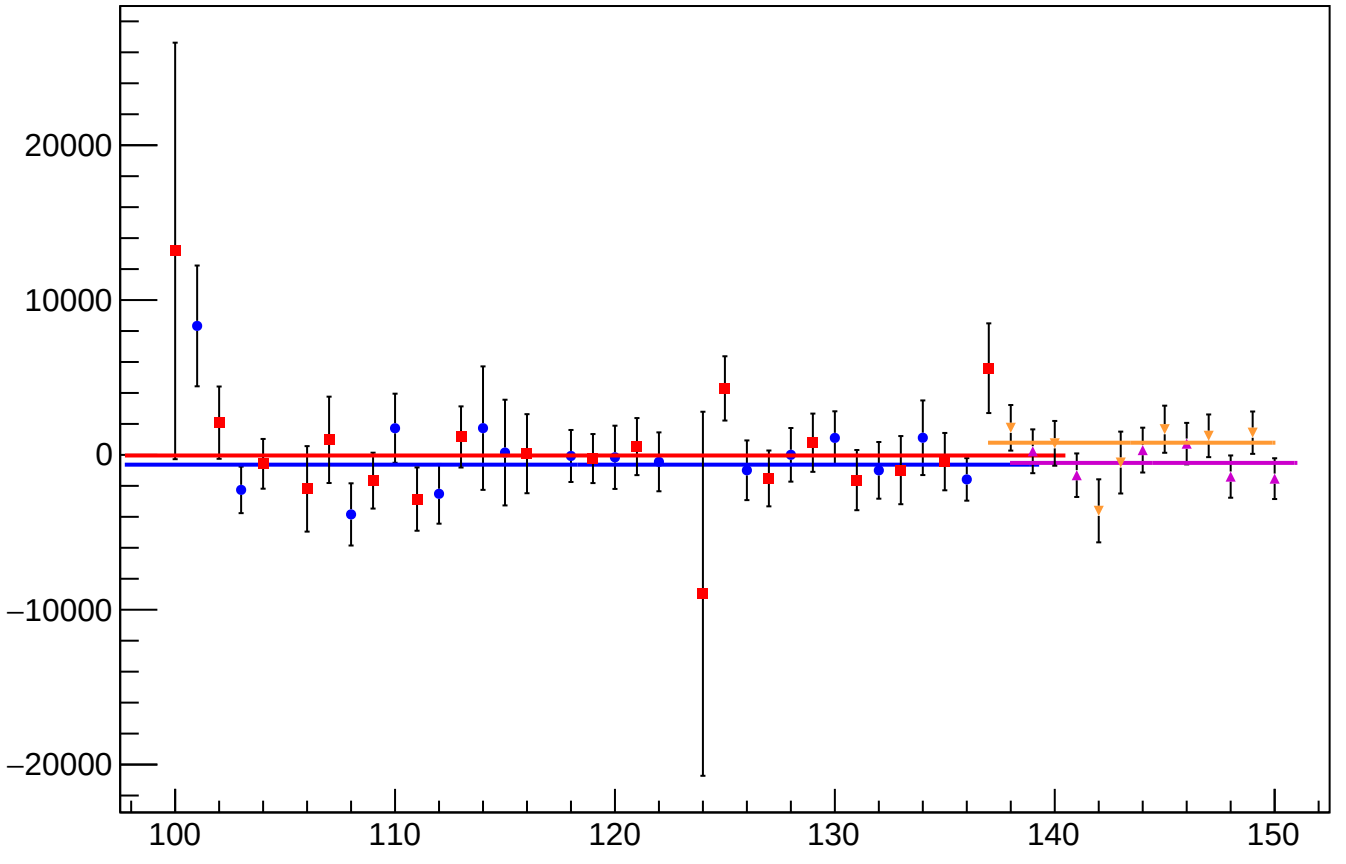
Left: 3077.874+/-0.693 $\chi^2$/NDF: 1401875.3/12

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3531.651+/-0.715 $\chi^2$/NDF:443877.5/21

Out: 2810.214+/-0.589 $\chi^2$/NDF:2497851.8/25

All: 3101.935+/-0.455 $\chi^2$/NDF: 3548243.4/47




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.523+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -517.618+/-563.232 $\chi^2$/NDF:2.8/5

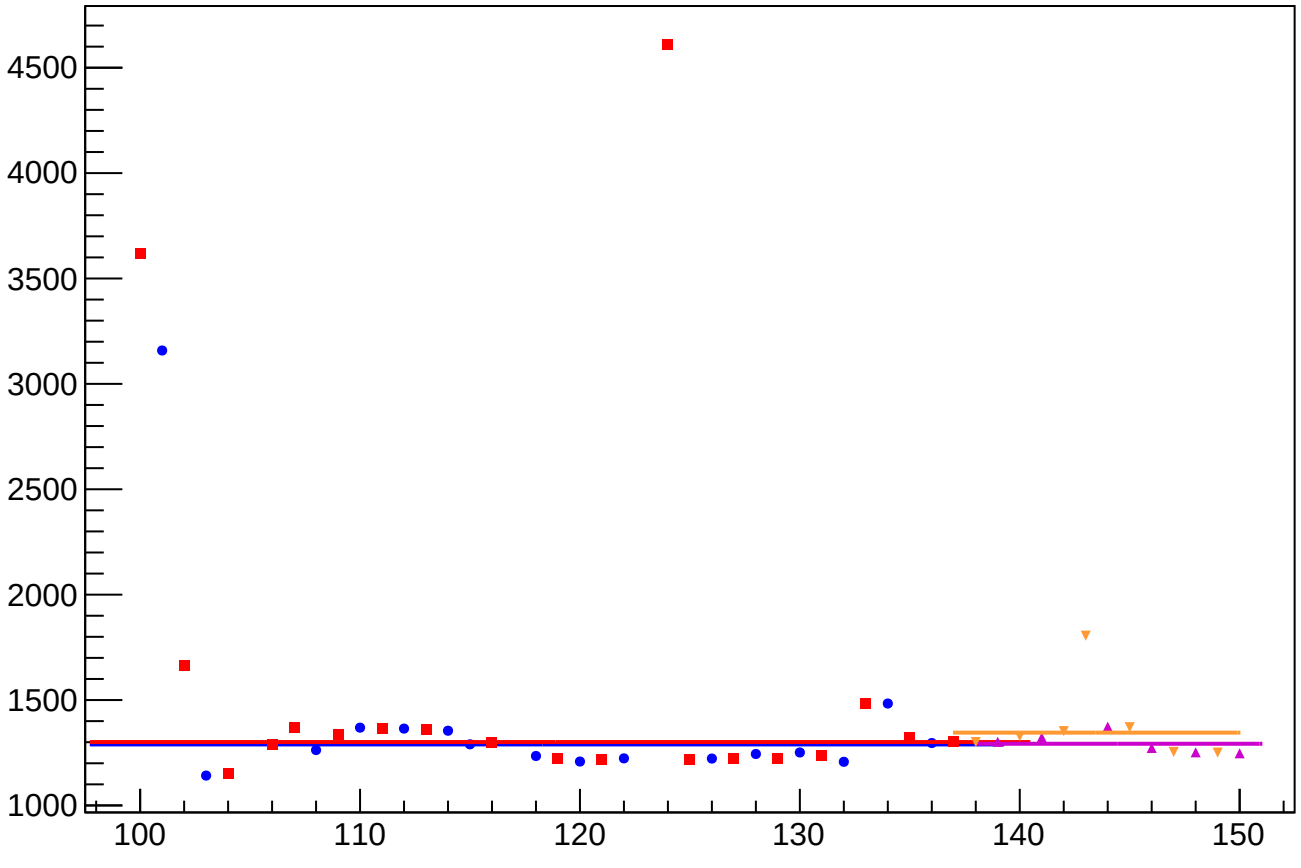
Left: 109.958+/-405.677 $\chi^2$/NDF: 11.5/12

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -582.550+/-369.106 $\chi^2$/NDF:16.7/21

Out: 300.165+/-374.721 $\chi^2$/NDF:23.7/25

All: -147.855+/-262.960 $\chi^2$/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

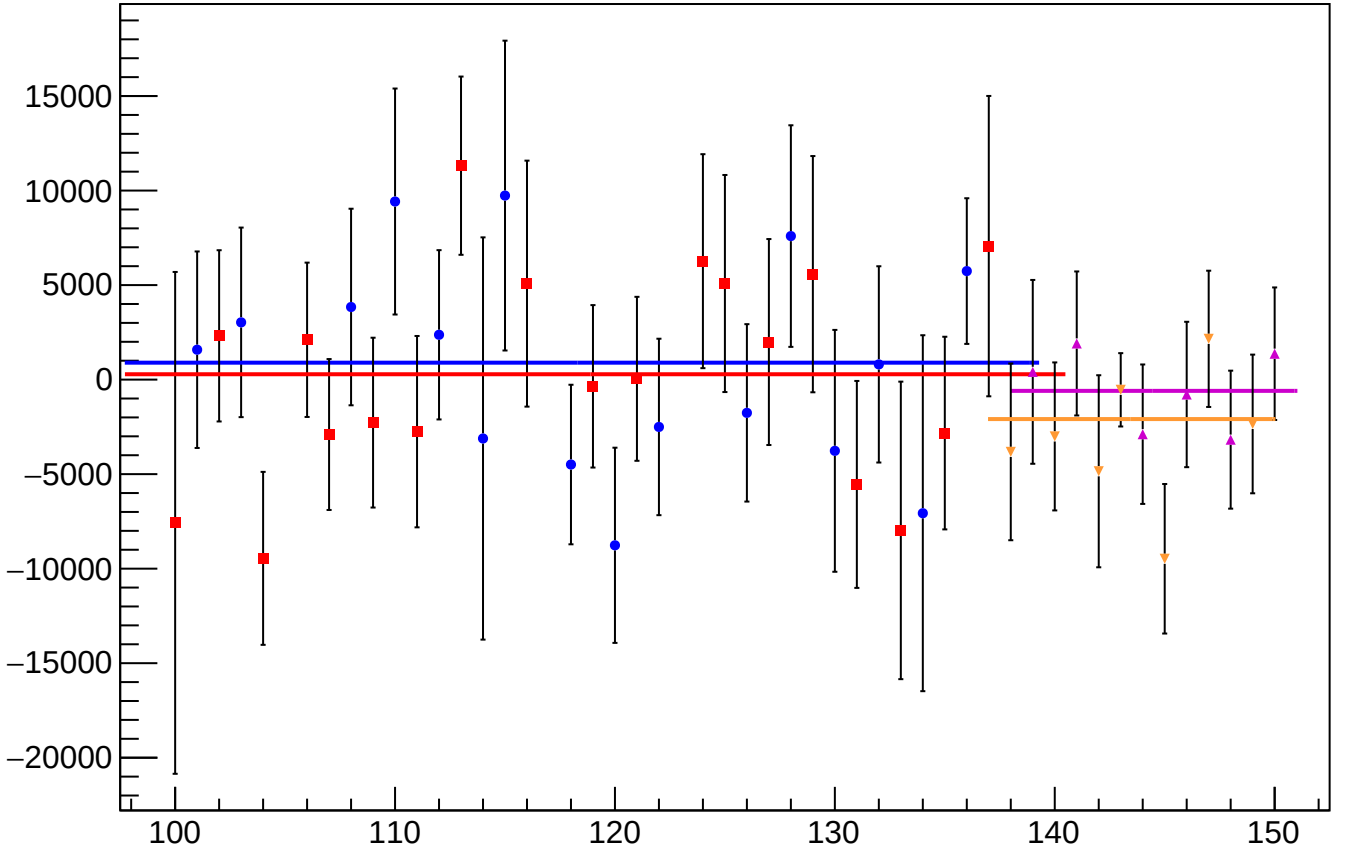
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47

asym_at1_avg_at2_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -2087.137+/-1258.998 $\chi^2$/NDF:6.0/6

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -595.101+/-1563.934 $\chi^2$/NDF:1.7/5

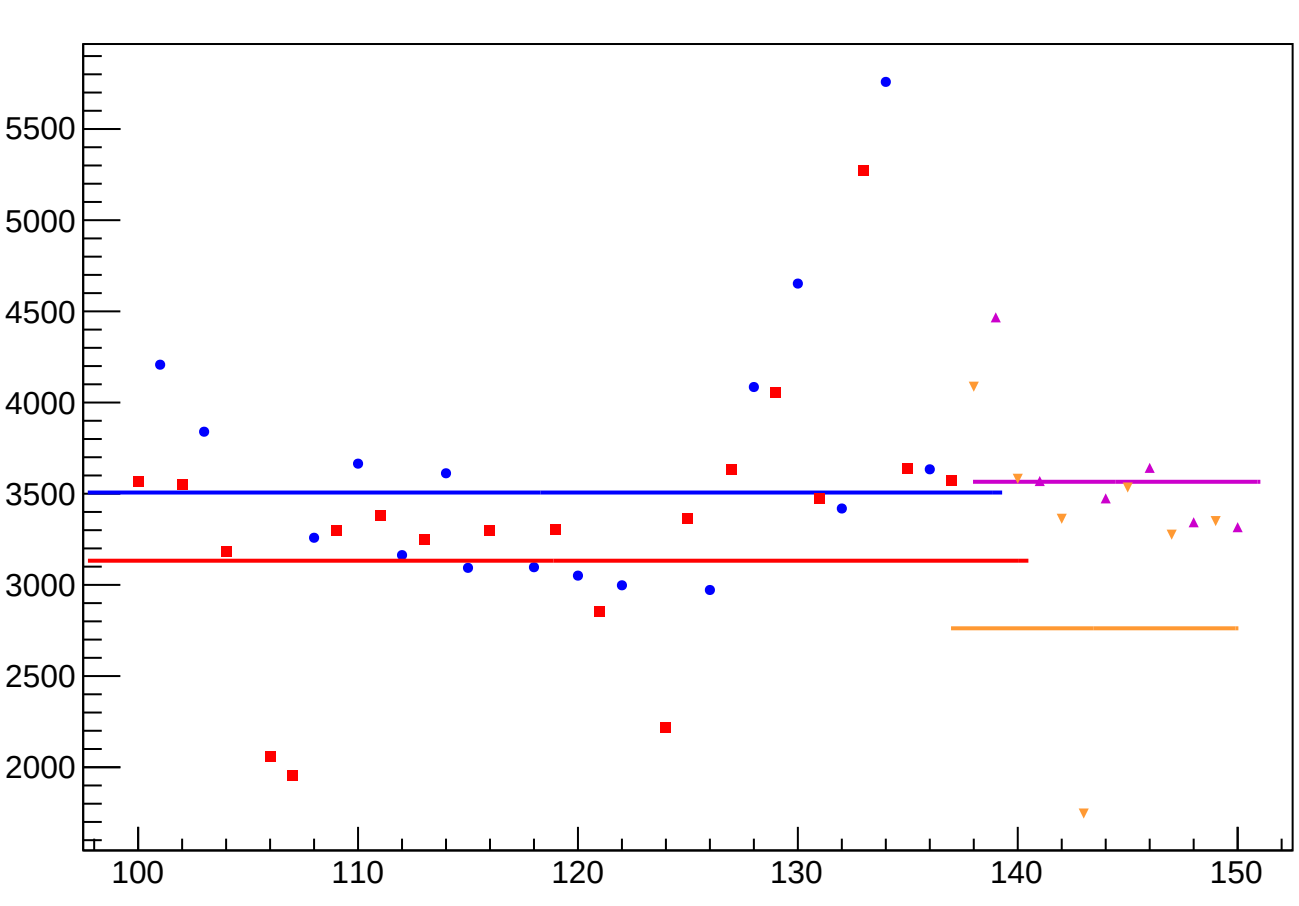
Left: -1500.431+/-980.706 $\chi^2$/NDF: 8.2/12

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 273.042+/-1010.875 $\chi^2$/NDF:16.3/21

Out: -828.039+/-862.189 $\chi^2$/NDF:26.5/25

All: -364.356+/-655.992 $\chi^2$/NDF: 43.5/47




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

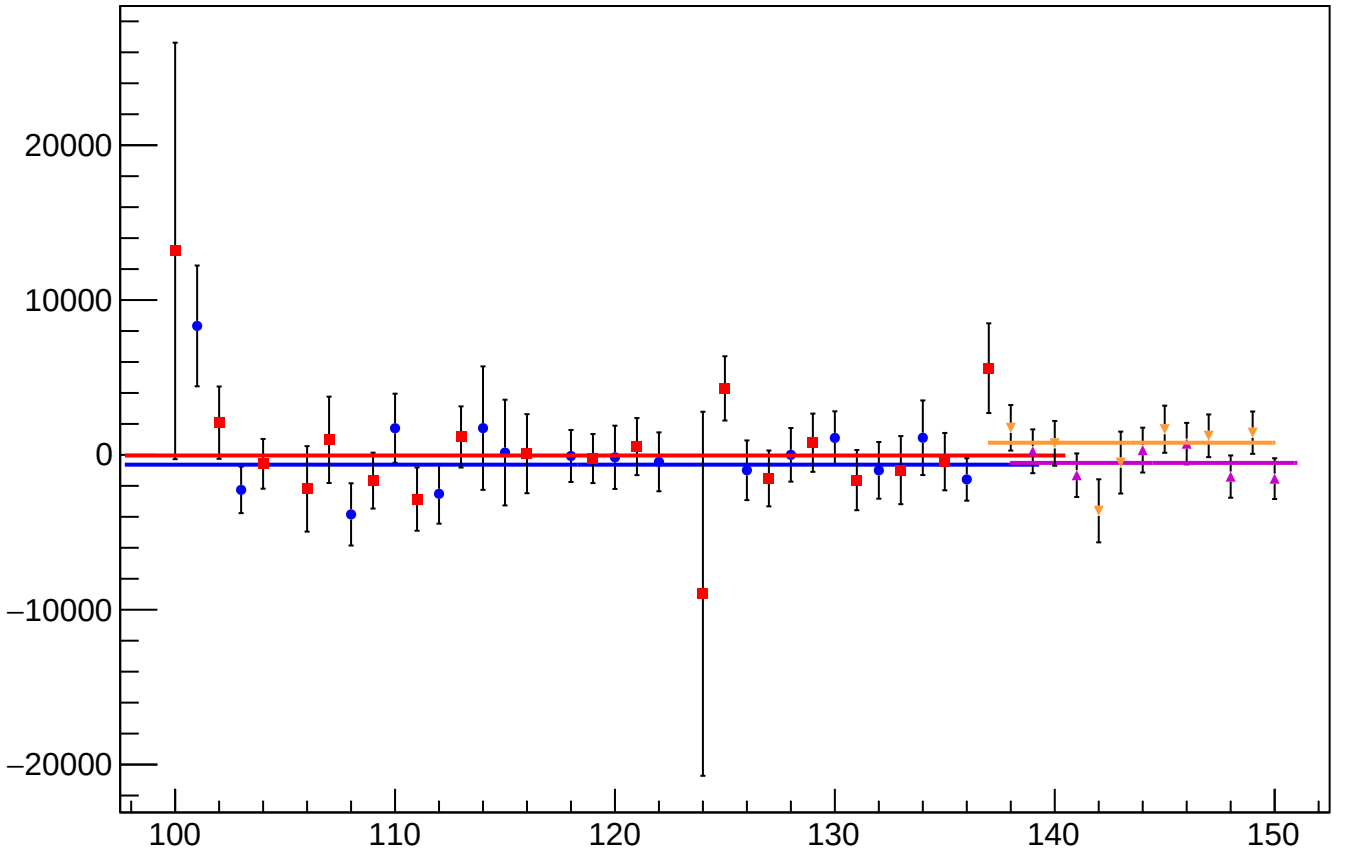
Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.523+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -517.618+/-563.232 $\chi^2$/NDF:2.8/5

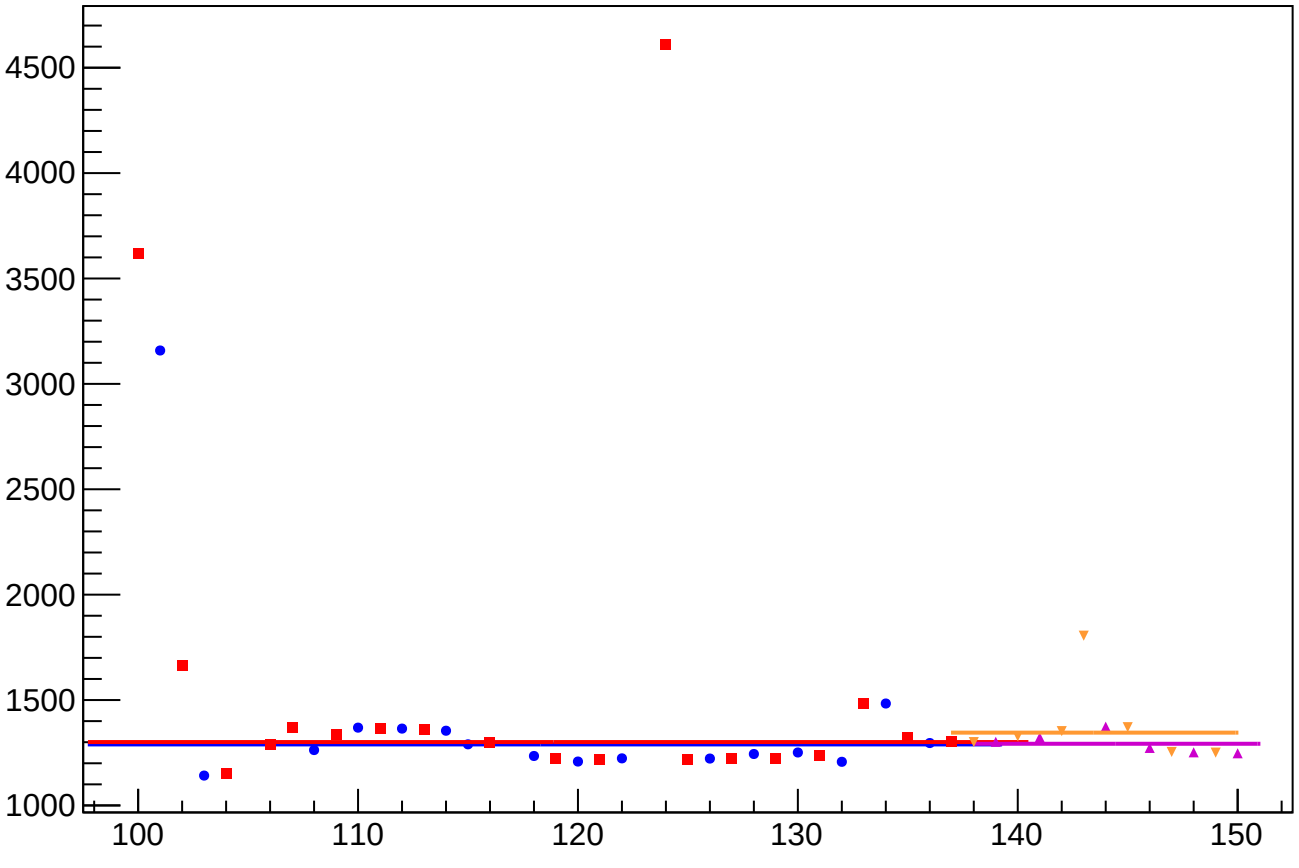
Left: 109.958+/-405.677 $\chi^2$/NDF: 11.5/12

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -582.550+/-369.106 $\chi^2$/NDF:16.7/21

Out: 300.165+/-374.721 $\chi^2$/NDF:23.7/25

All: -147.855+/-262.960 $\chi^2$/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

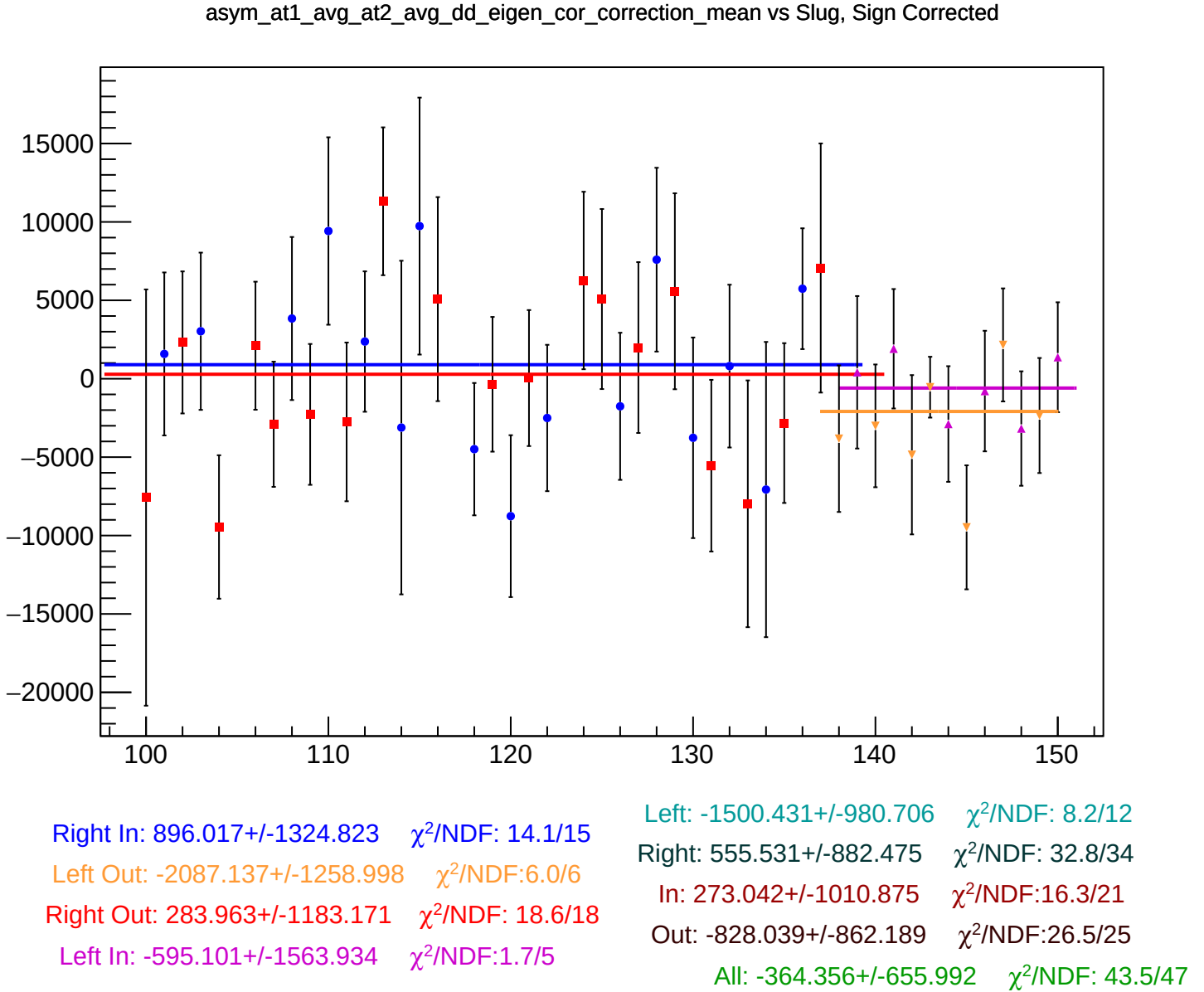
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

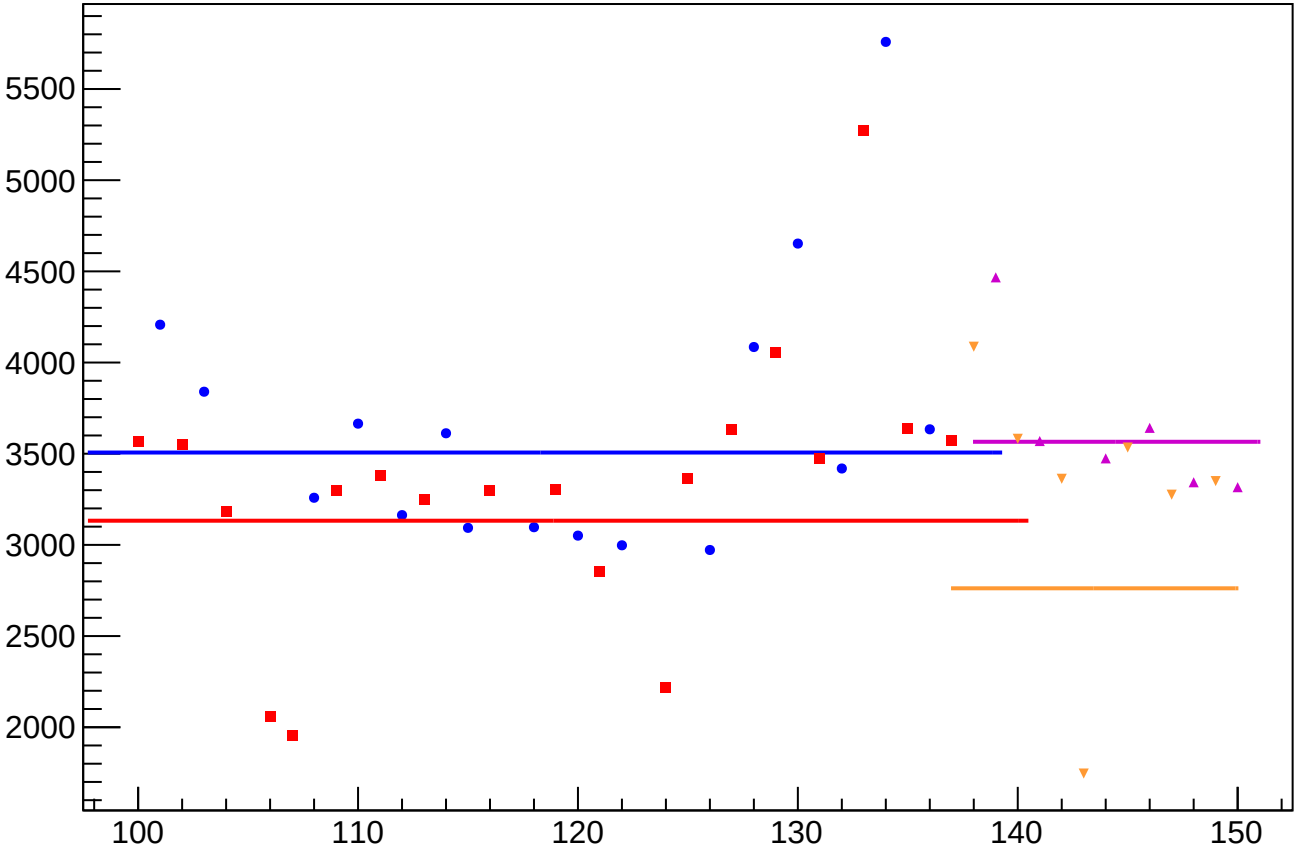
In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2087.137+/-1258.998 χ²/NDF:6.0/6
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -595.101+/-1563.934 χ²/NDF:1.7/5
Left: -1500.431+/-980.706 χ²/NDF: 8.2/12
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 273.042+/-1010.875 χ²/NDF:16.3/21
Out: -828.039+/-862.189 χ²/NDF:26.5/25
All: -364.356+/-655.992 χ²/NDF: 43.5/47

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

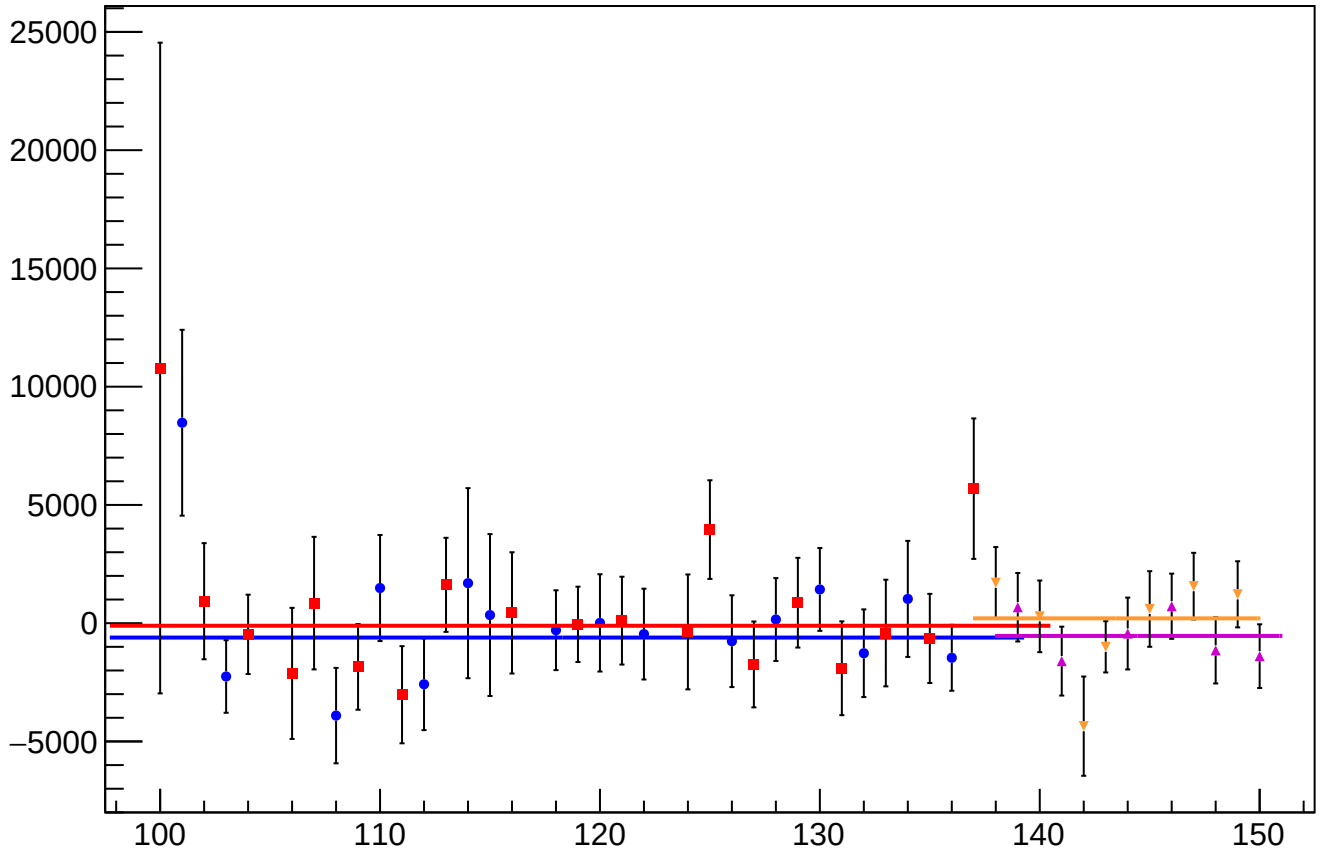
Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.117+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.335 $\chi^2$/NDF:2.7/5

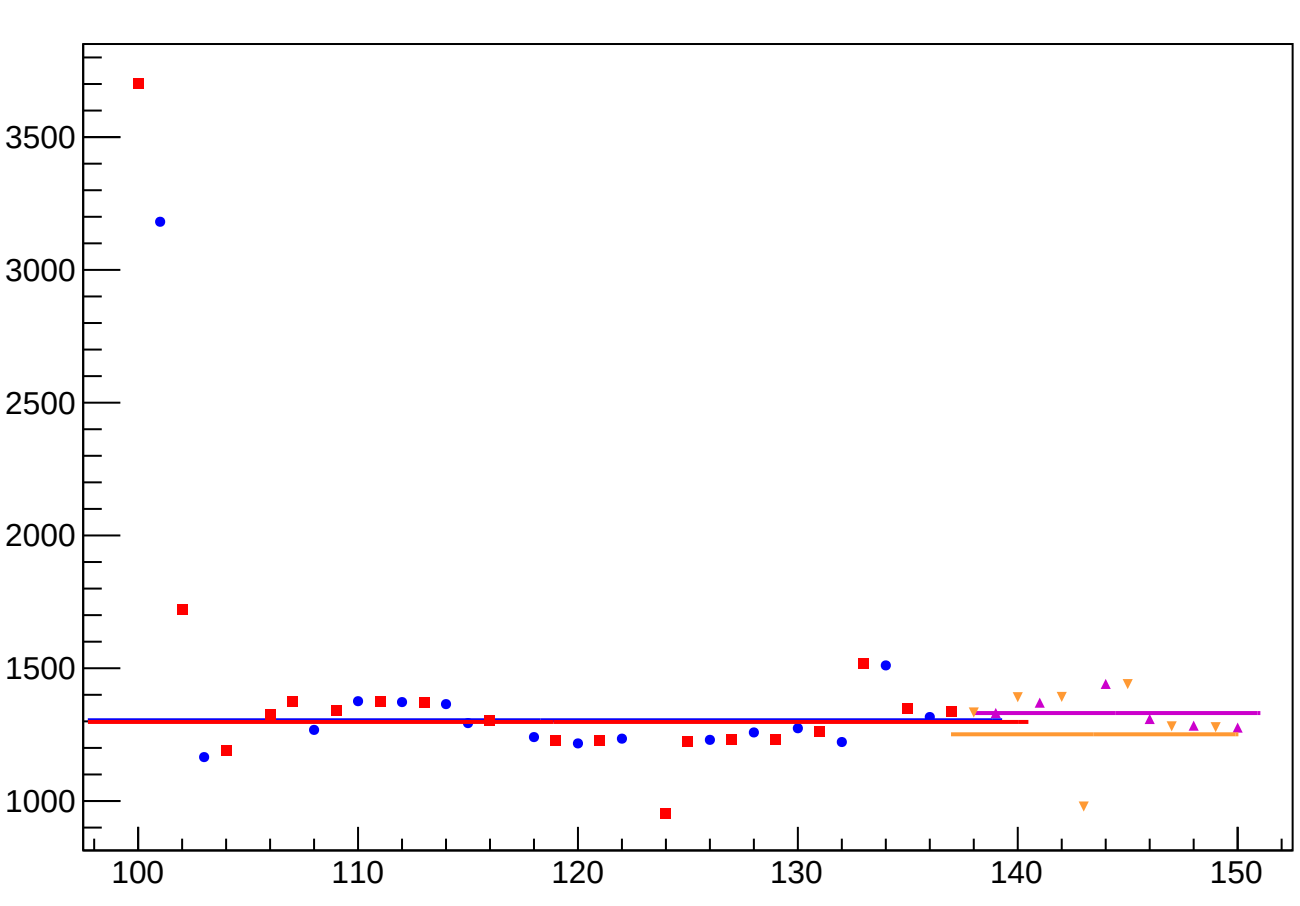
Left: -144.585+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.960+/-376.249 $\chi^2$/NDF:16.8/21

Out: 29.610+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.526+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1251.266+/-0.386 $\chi^2$/NDF:187430.1/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1331.283+/-0.410 $\chi^2$/NDF:18010.4/5

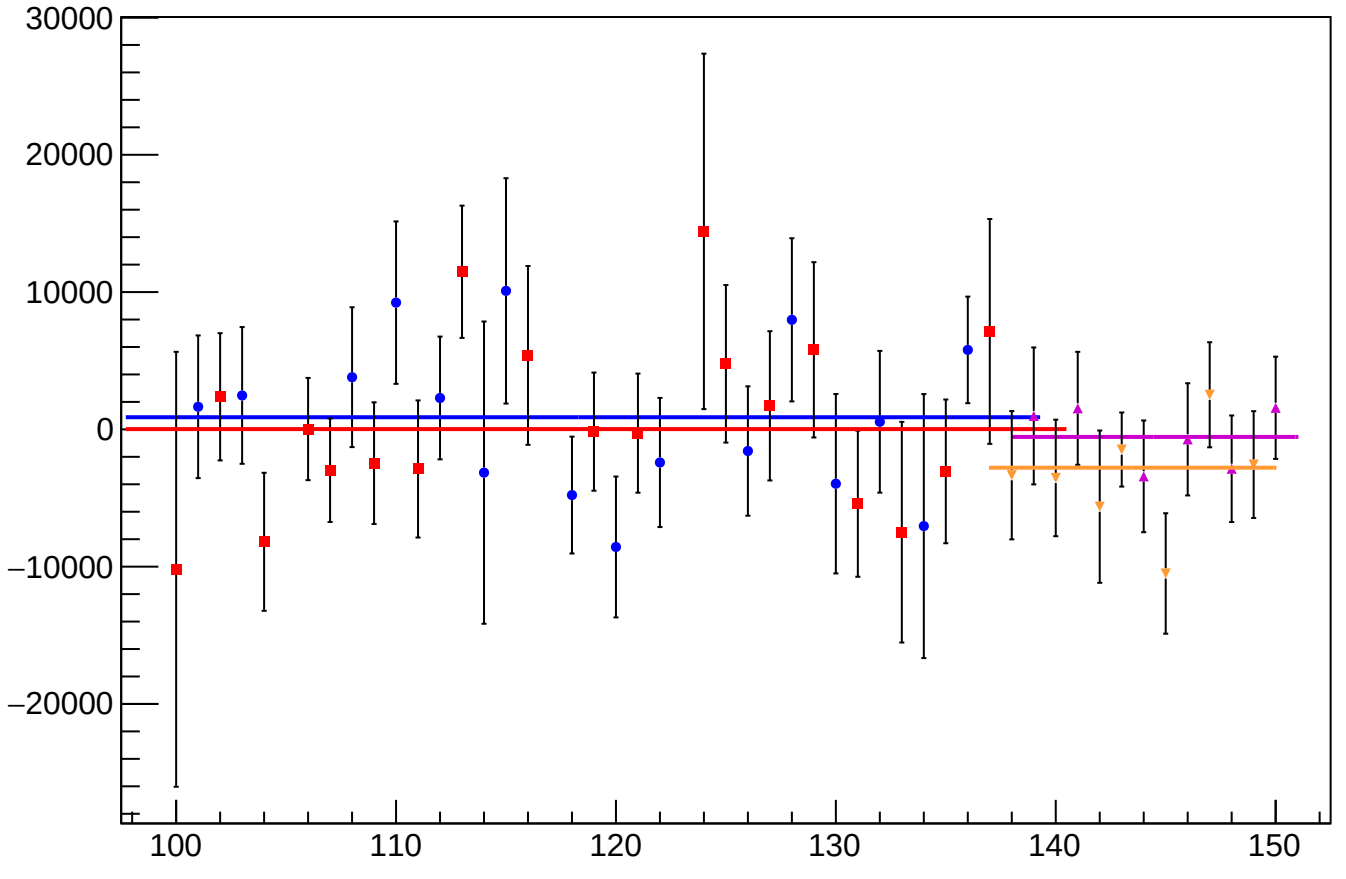
Left: 1288.806+/-0.281 $\chi^2$/NDF: 225624.6/12

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1315.527+/-0.266 $\chi^2$/NDF:531142.9/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.0/47




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.285 $\chi^2$/NDF:5.6/6

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -550.568+/-1670.988 $\chi^2$/NDF:1.5/5

Left: -1807.622+/-1107.196 $\chi^2$/NDF: 8.1/12

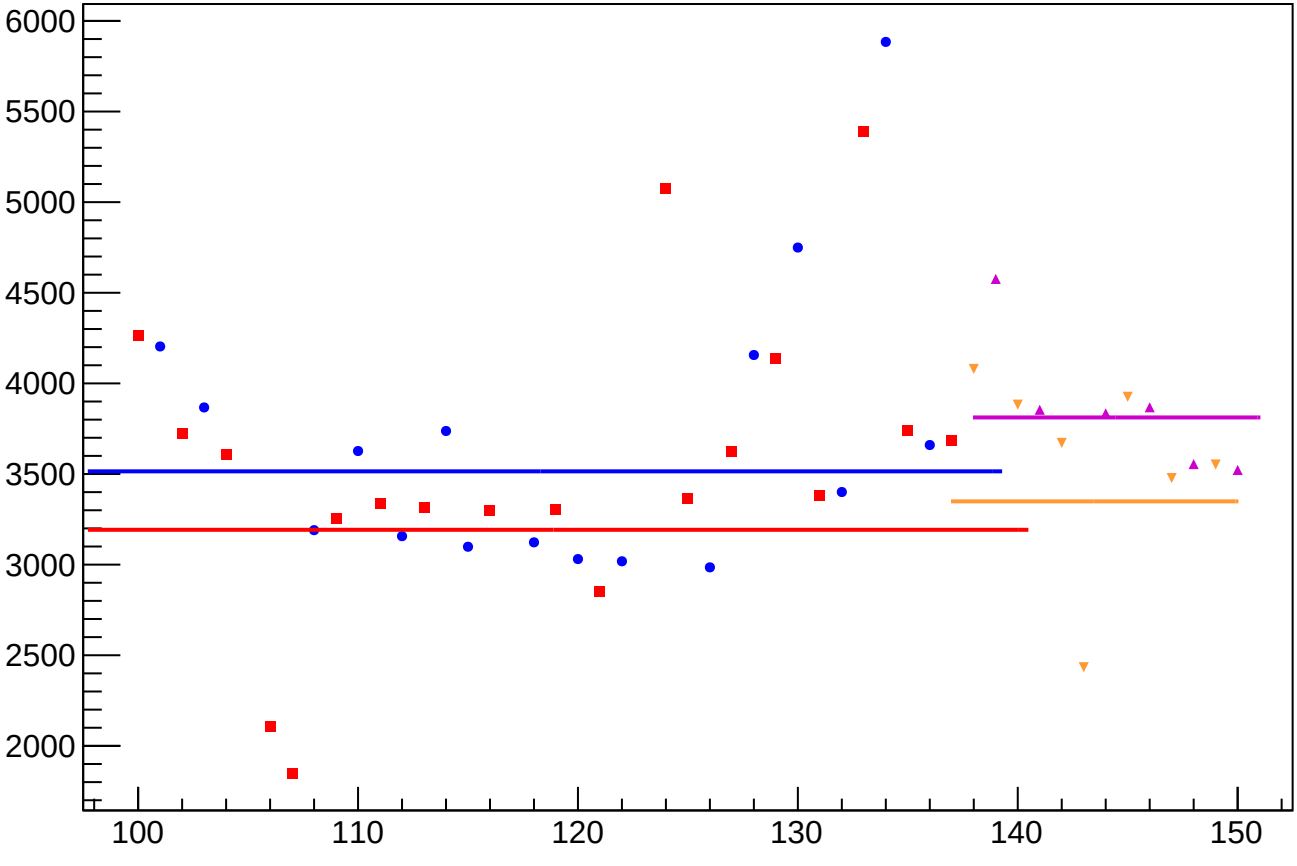
Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 329.010+/-1039.368 $\chi^2$/NDF:16.1/21

Out: -1096.334+/-931.685 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.758 $\chi^2$/NDF: 41.7/47

asym_at1_avg_at2_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3349.085+/-1.045 $\chi^2$/NDF:359788.3/6

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 3812.116+/-1.182 $\chi^2$/NDF:68525.5/5

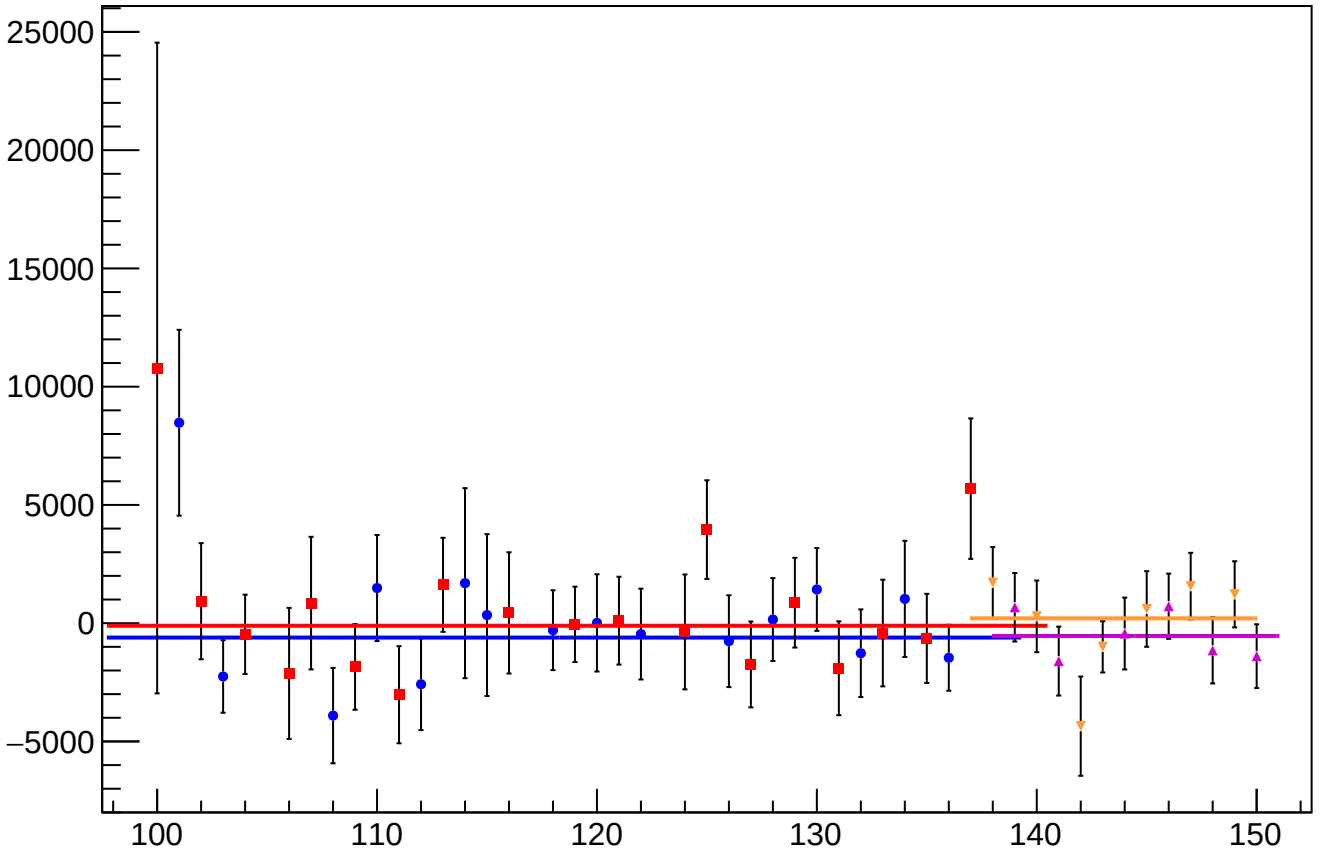
Left: 3552.373+/-0.783 $\chi^2$/NDF: 514460.0/12

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3629.796+/-0.735 $\chi^2$/NDF:482438.4/21

Out: 3254.519+/-0.659 $\chi^2$/NDF:1145861.6/25

All: 3421.716+/-0.491 $\chi^2$/NDF: 1772868.8/47




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.113+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.336 $\chi^2$/NDF:2.7/5

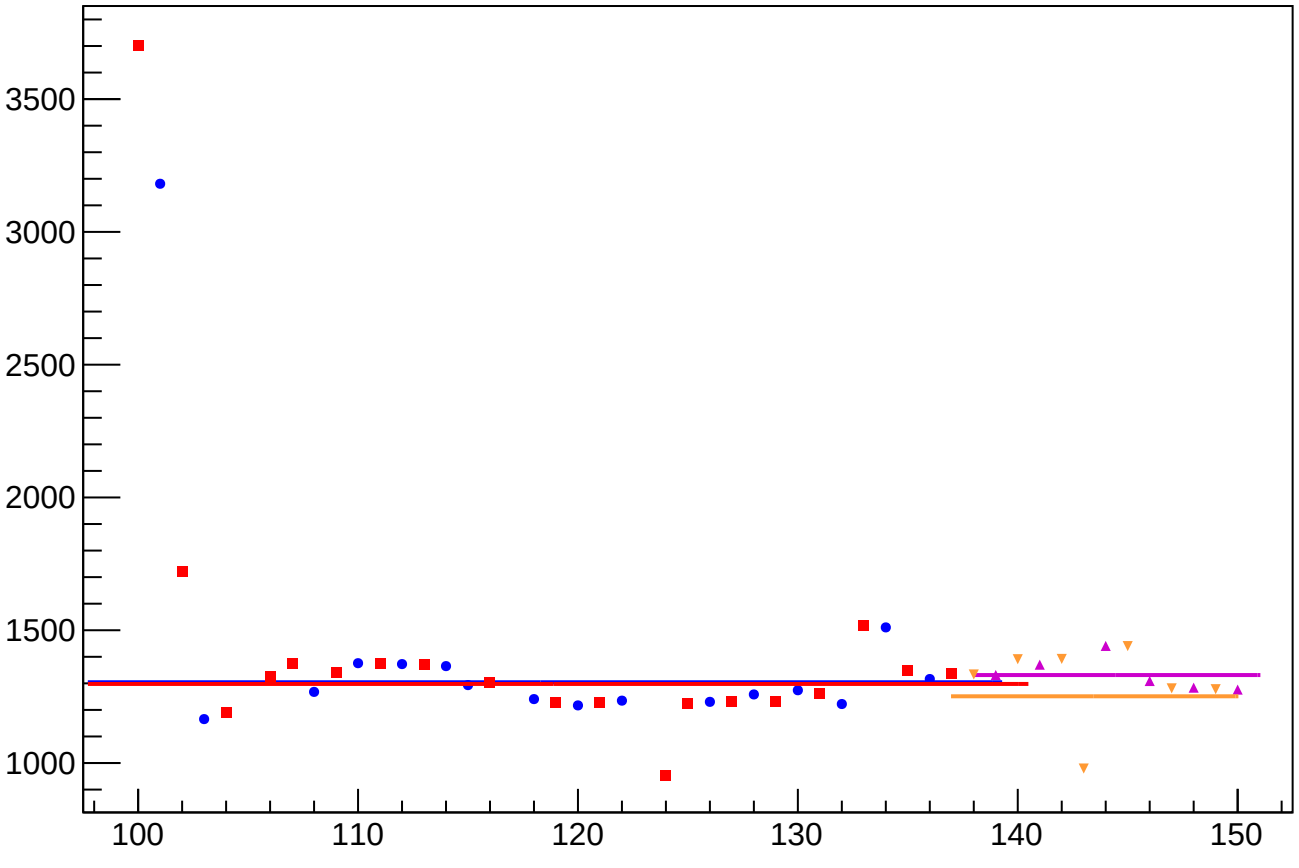
Left: -144.587+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.962+/-376.250 $\chi^2$/NDF:16.8/21

Out: 29.606+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.529+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1251.267+/-0.386 $\chi^2$/NDF:187430.4/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1331.284+/-0.410 $\chi^2$/NDF:18010.5/5

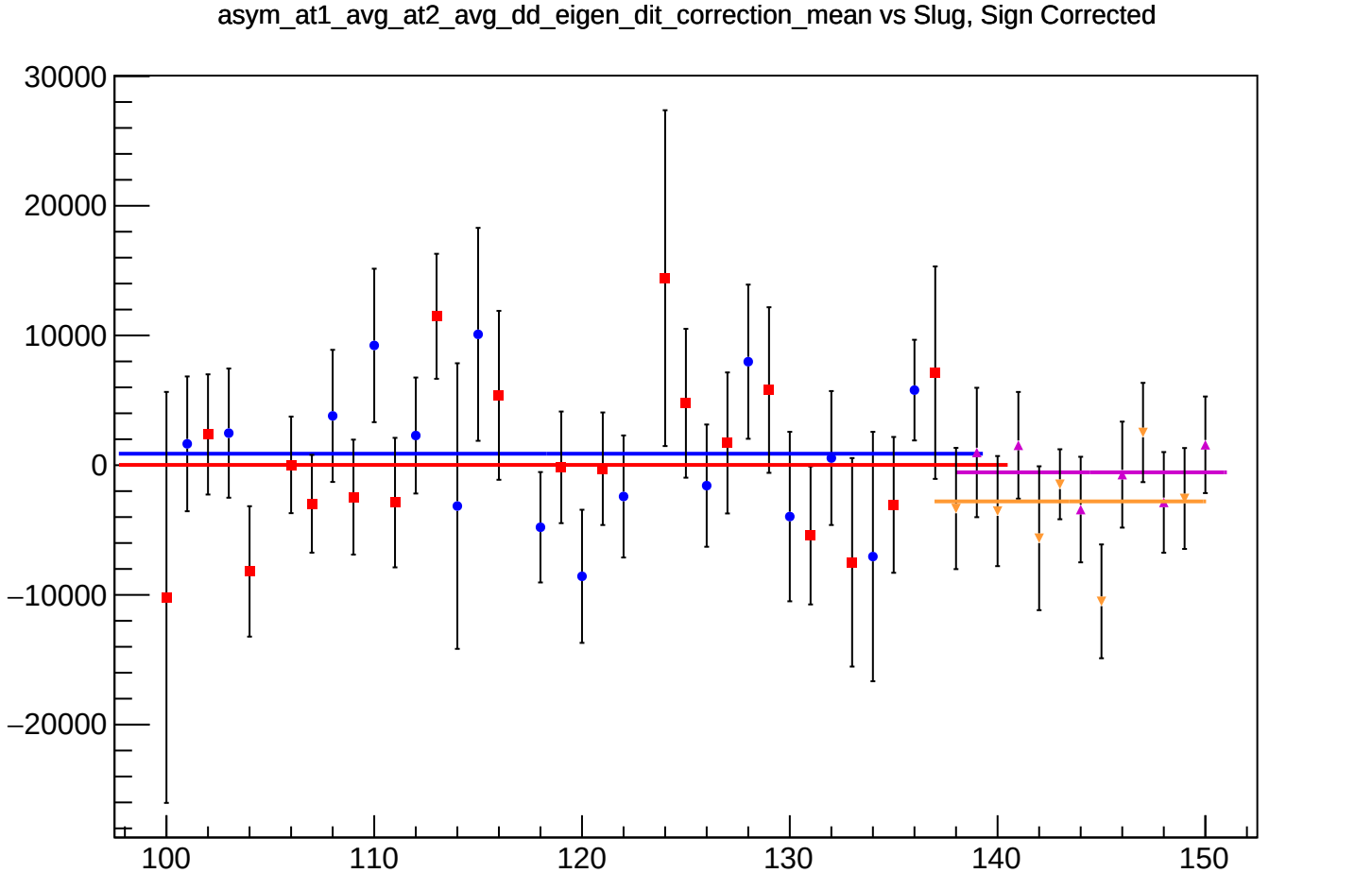
Left: 1288.807+/-0.281 $\chi^2$/NDF: 225624.9/12

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1315.528+/-0.266 $\chi^2$/NDF:531143.4/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.4/47




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.287 $\chi^2$/NDF:5.6/6

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -550.566+/-1670.990 $\chi^2$/NDF:1.5/5

Left: -1807.621+/-1107.198 $\chi^2$/NDF: 8.1/12

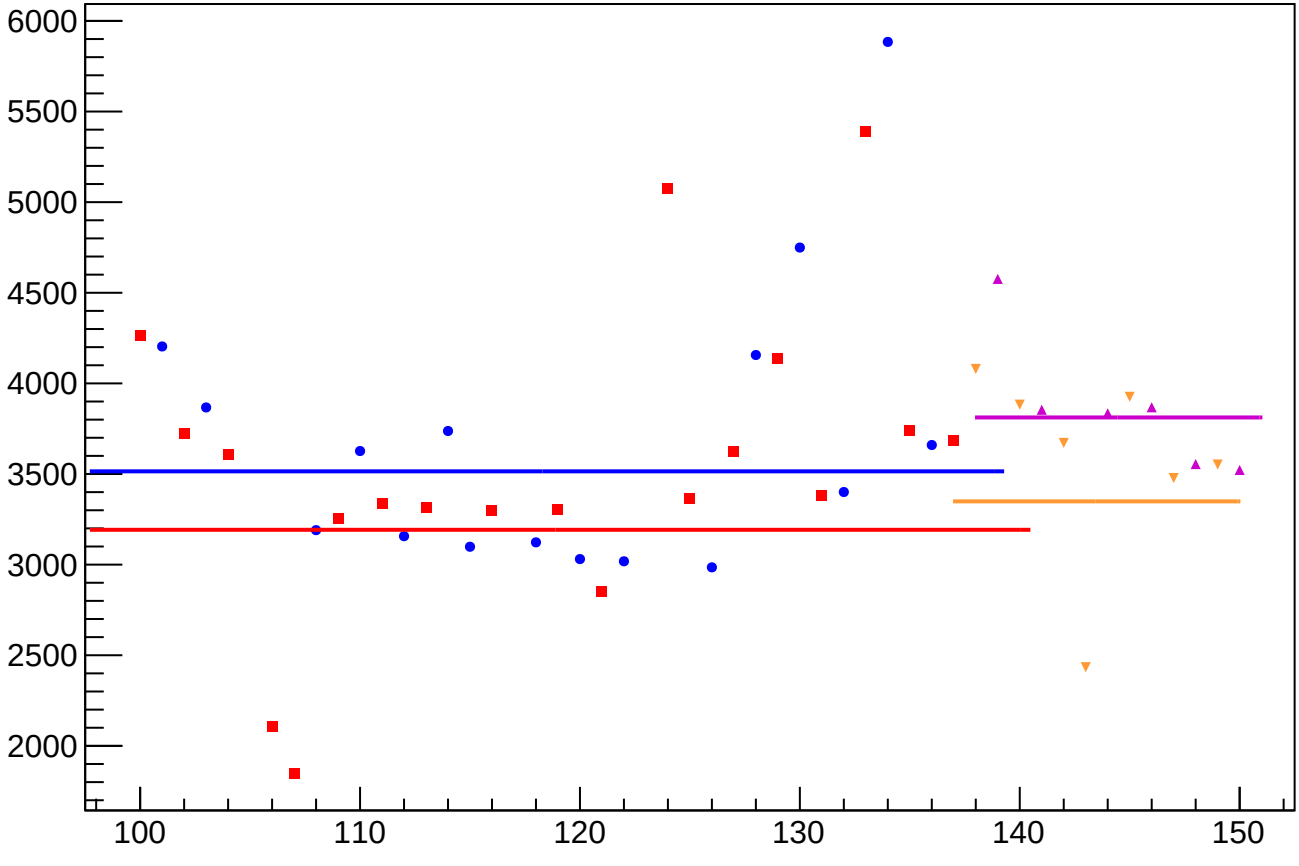
Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 329.006+/-1039.367 $\chi^2$/NDF:16.1/21

Out: -1096.331+/-931.684 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.757 $\chi^2$/NDF: 41.7/47

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3349.090+/-1.045 $\chi^2$/NDF:359788.9/6

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 3812.121+/-1.182 $\chi^2$/NDF:68526.6/5

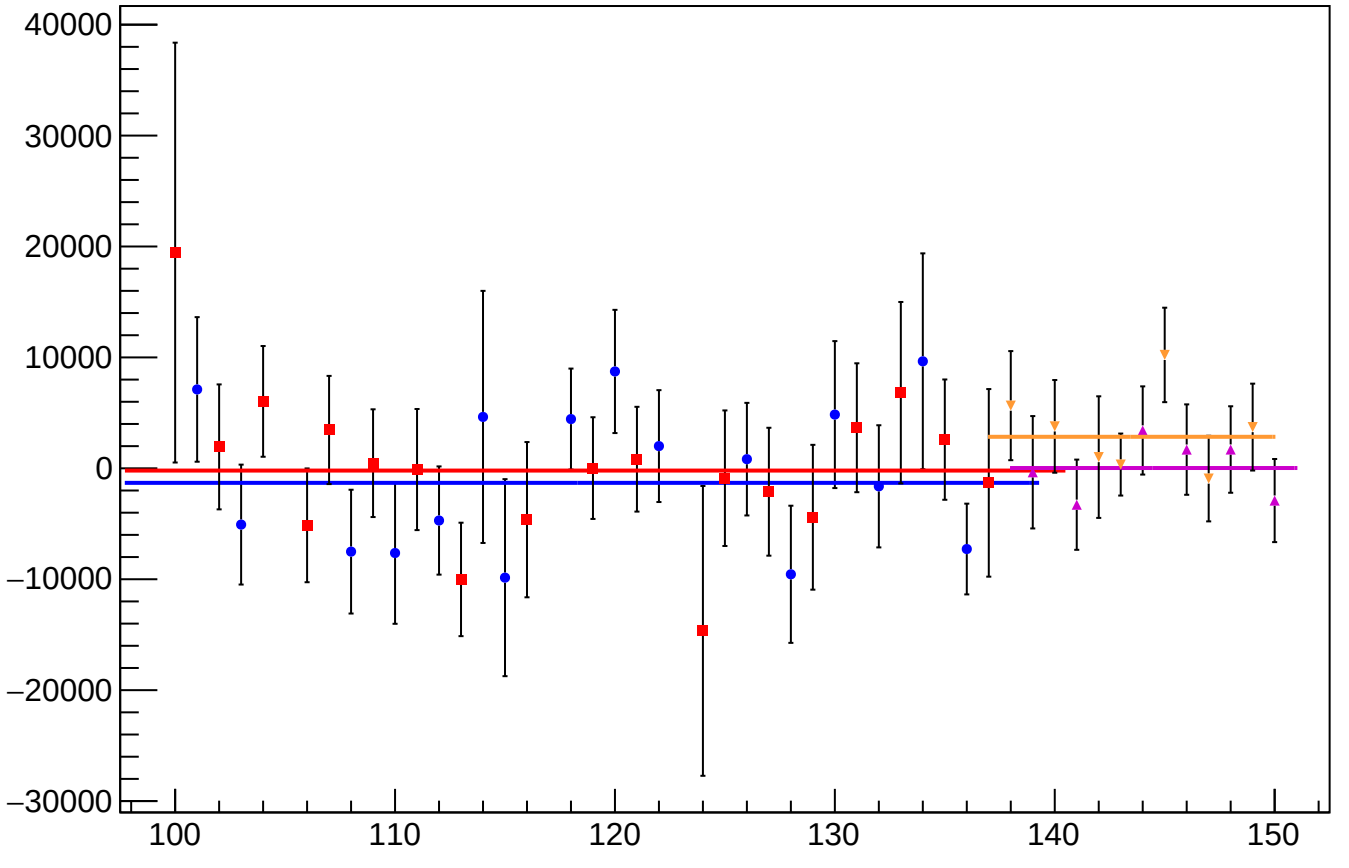
Left: 3552.378+/-0.783 $\chi^2$/NDF: 514461.5/12

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3629.792+/-0.735 $\chi^2$/NDF:482447.3/21

Out: 3254.516+/-0.659 $\chi^2$/NDF:1145866.6/25

All: 3421.713+/-0.491 $\chi^2$/NDF: 1772882.2/47




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 2842.696+/-1495.106 $\chi^2$/NDF:5.3/6

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 27.820+/-1666.900 $\chi^2$/NDF:2.4/5

Left: 1587.743+/-1112.997 $\chi^2$/NDF: 9.2/12

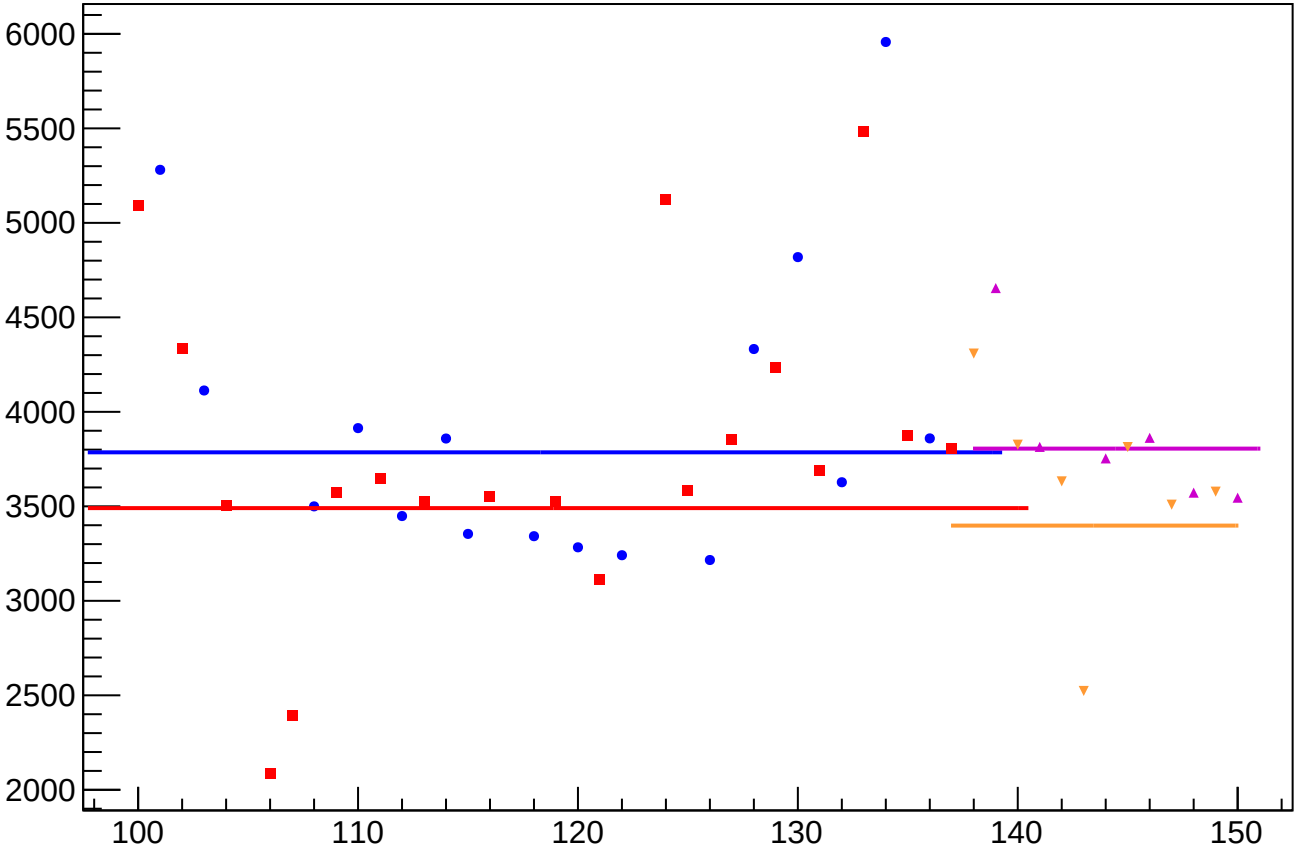
Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -741.716+/-1086.051 $\chi^2$/NDF:20.3/21

Out: 1150.074+/-996.239 $\chi^2$/NDF:19.2/25

All: 285.622+/-734.149 $\chi^2$/NDF: 41.2/47

# asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3398.087+/-1.057 $\chi^2$/NDF:314083.3/6

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3805.447+/-1.179 $\chi^2$/NDF:73749.7/5

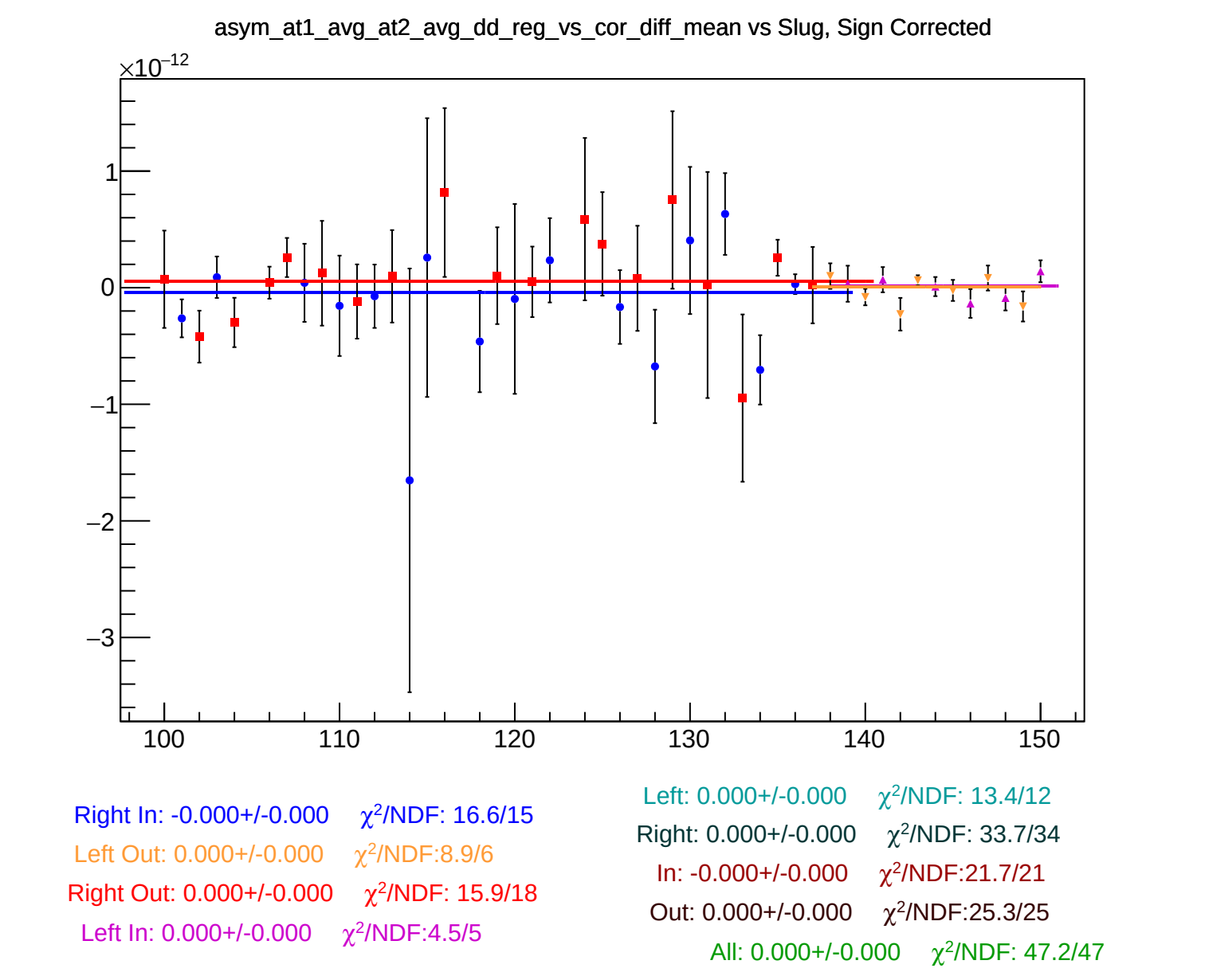
Left: 3579.700+/-0.787 $\chi^2$/NDF: 454025.7/12

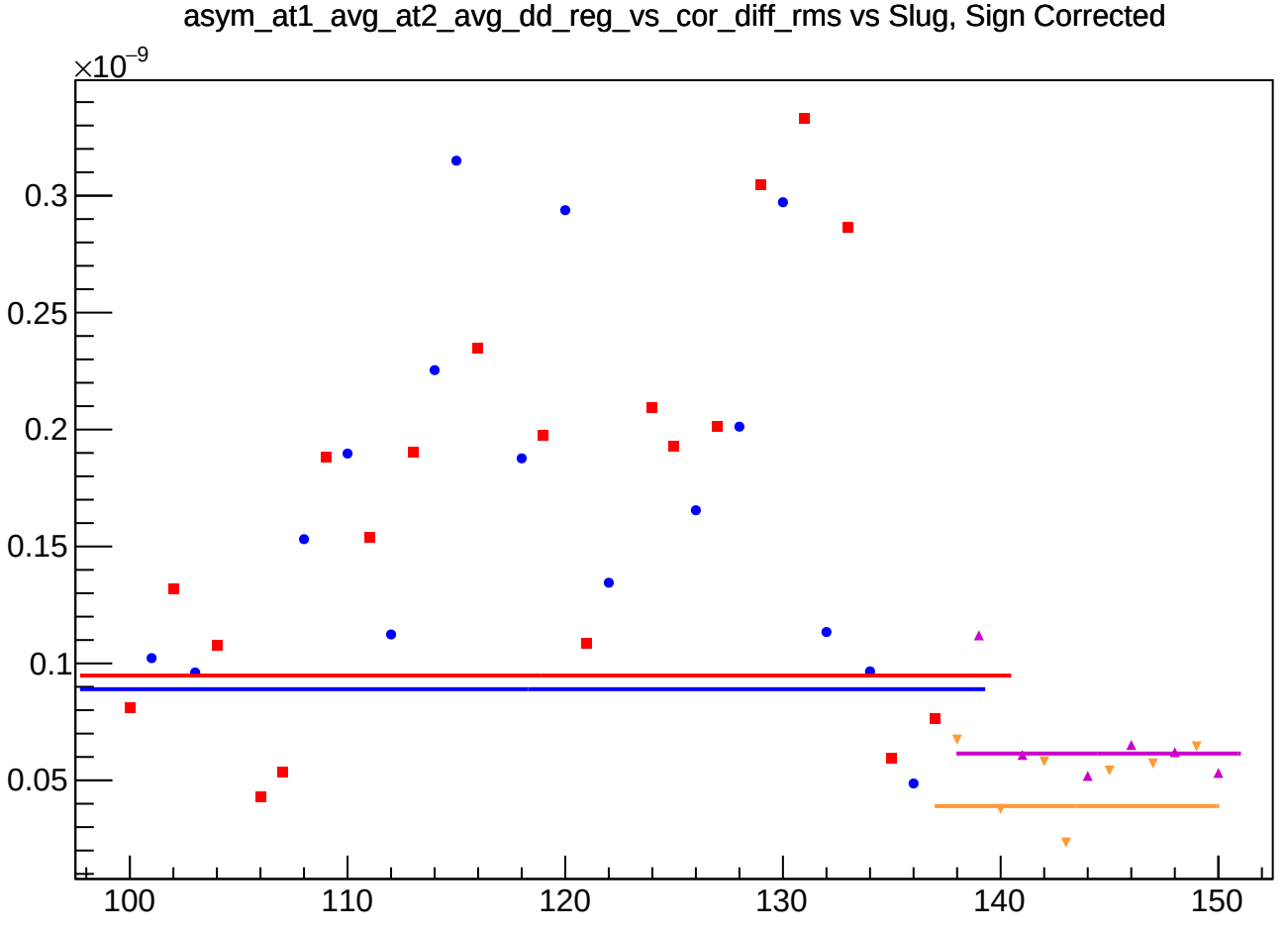
Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3794.125+/-0.768 $\chi^2$/NDF:456902.9/21

Out: 3450.158+/-0.699 $\chi^2$/NDF:905109.0/25

All: 3606.024+/-0.517 $\chi^2$/NDF: 1471720.6/47


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 16.6/15
Left Out: 0.000+/-0.000 χ²/NDF:8.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 15.9/18
Left In: 0.000+/-0.000 χ²/NDF:4.5/5
Left: 0.000+/-0.000 χ²/NDF: 13.4/12
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: -0.000+/-0.000 χ²/NDF:21.7/21
Out: 0.000+/-0.000 χ²/NDF:25.3/25
All: 0.000+/-0.000 χ²/NDF: 47.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:618005.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:257986.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1244422.8/12

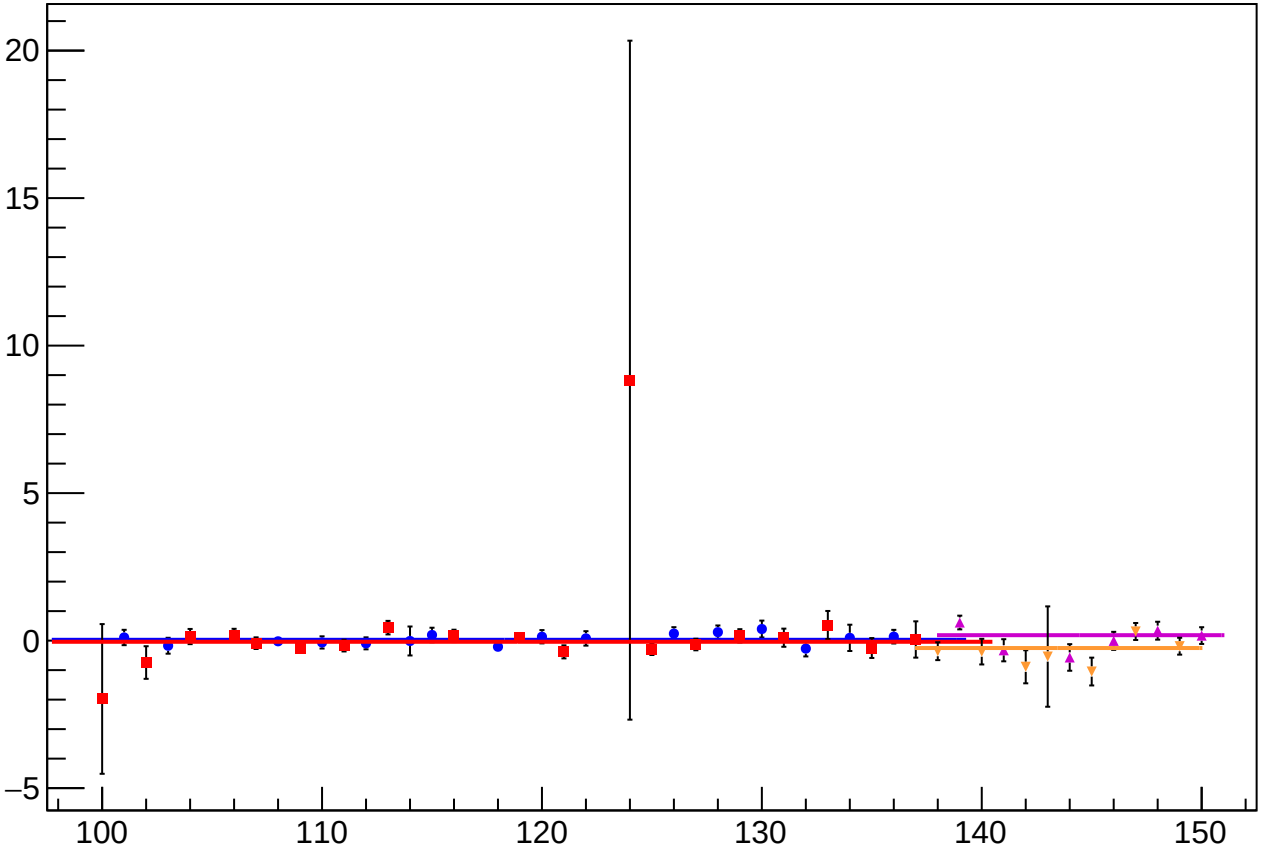
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2003084.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3602876.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6105919.4/47

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

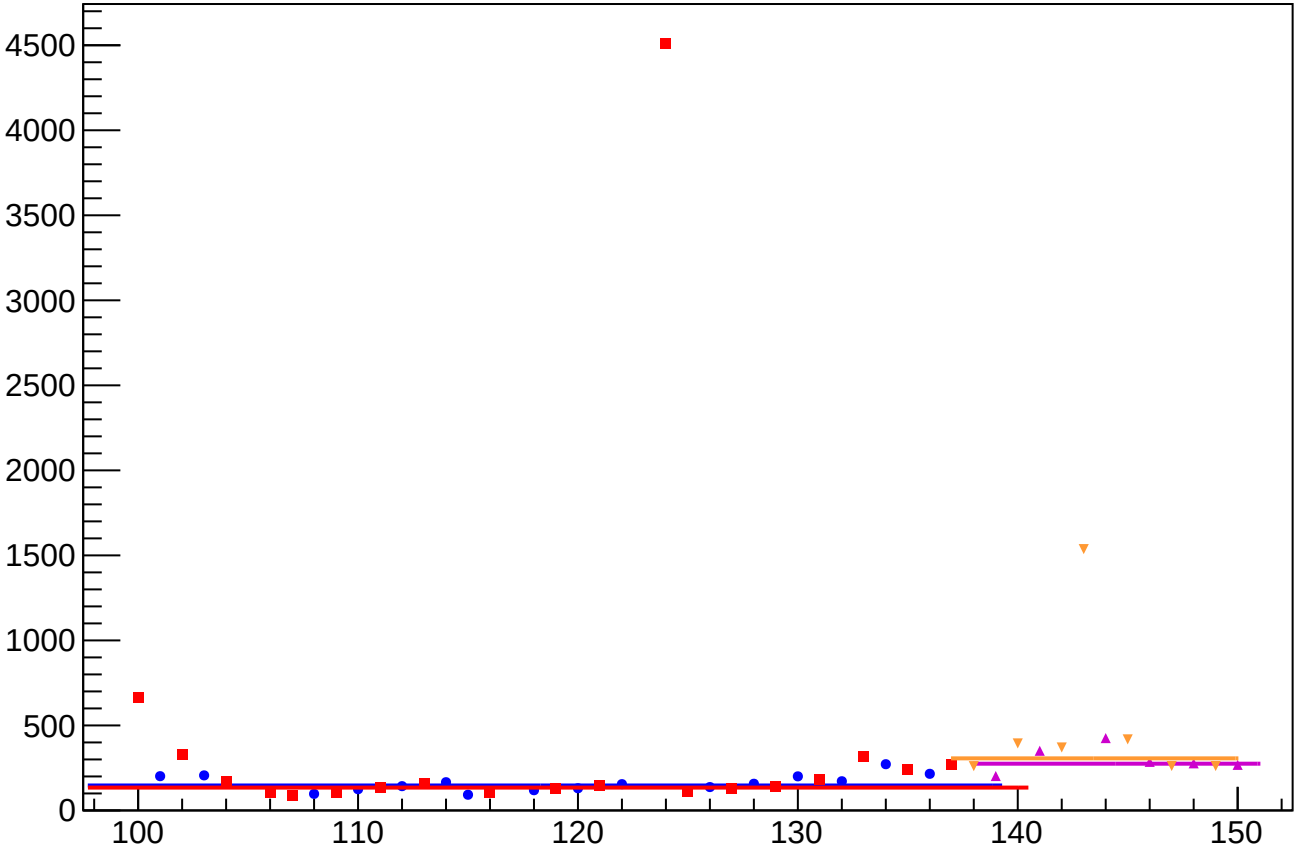
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

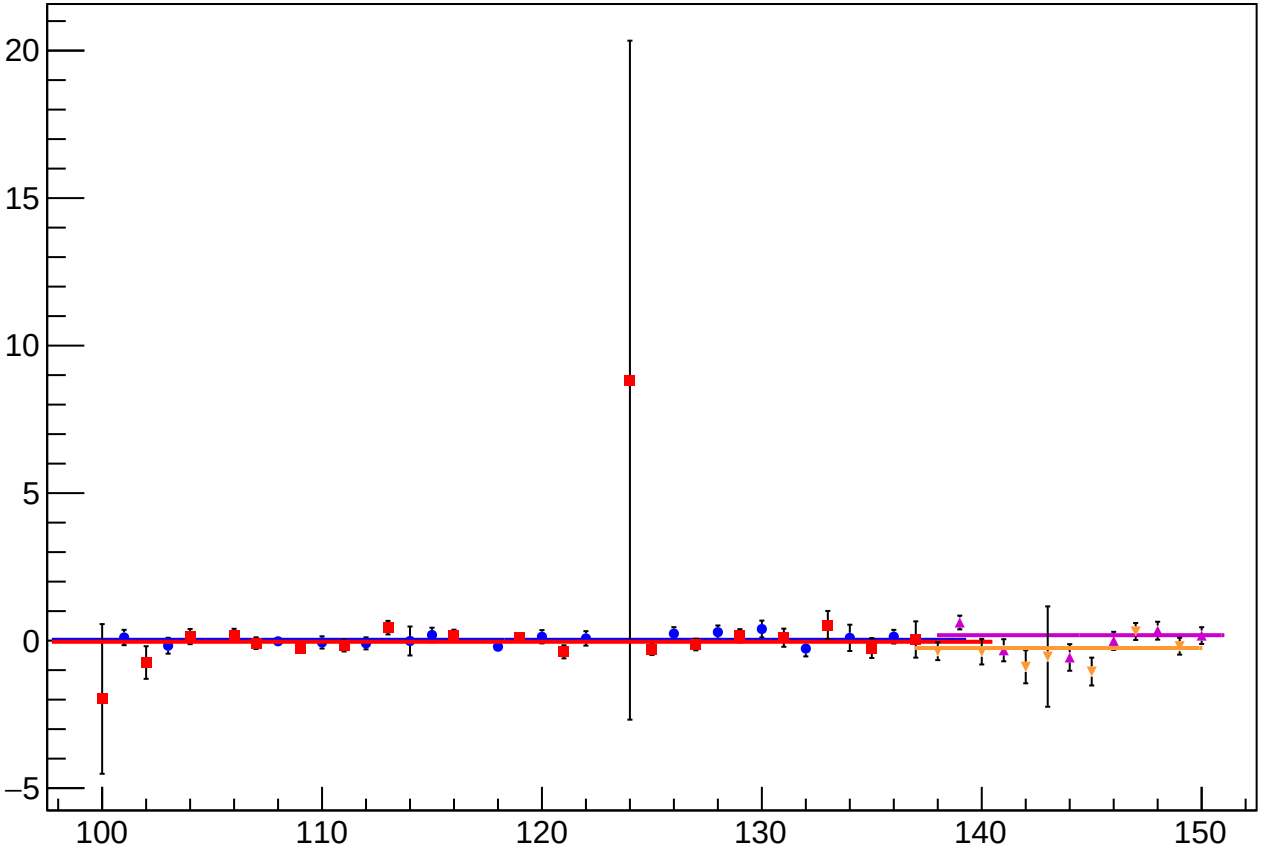
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

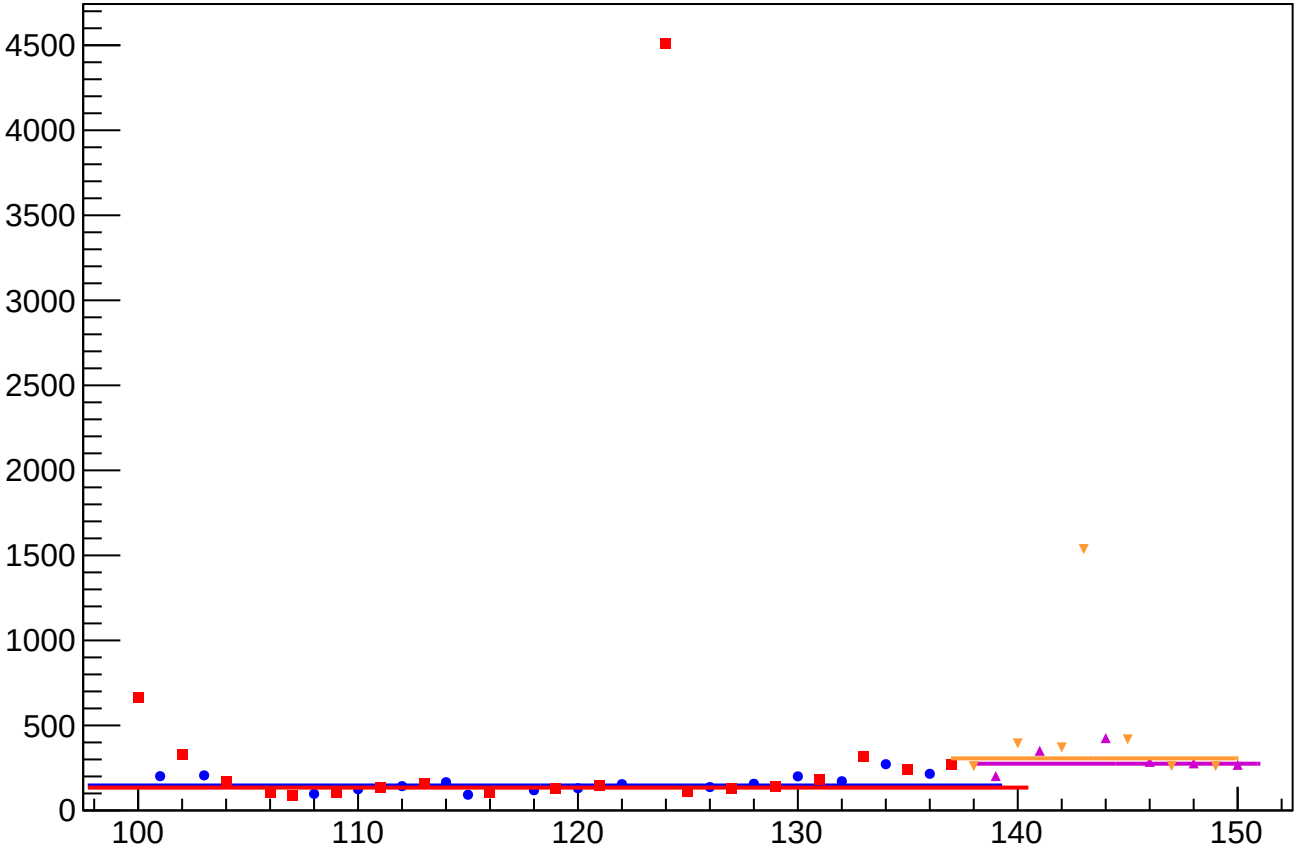
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

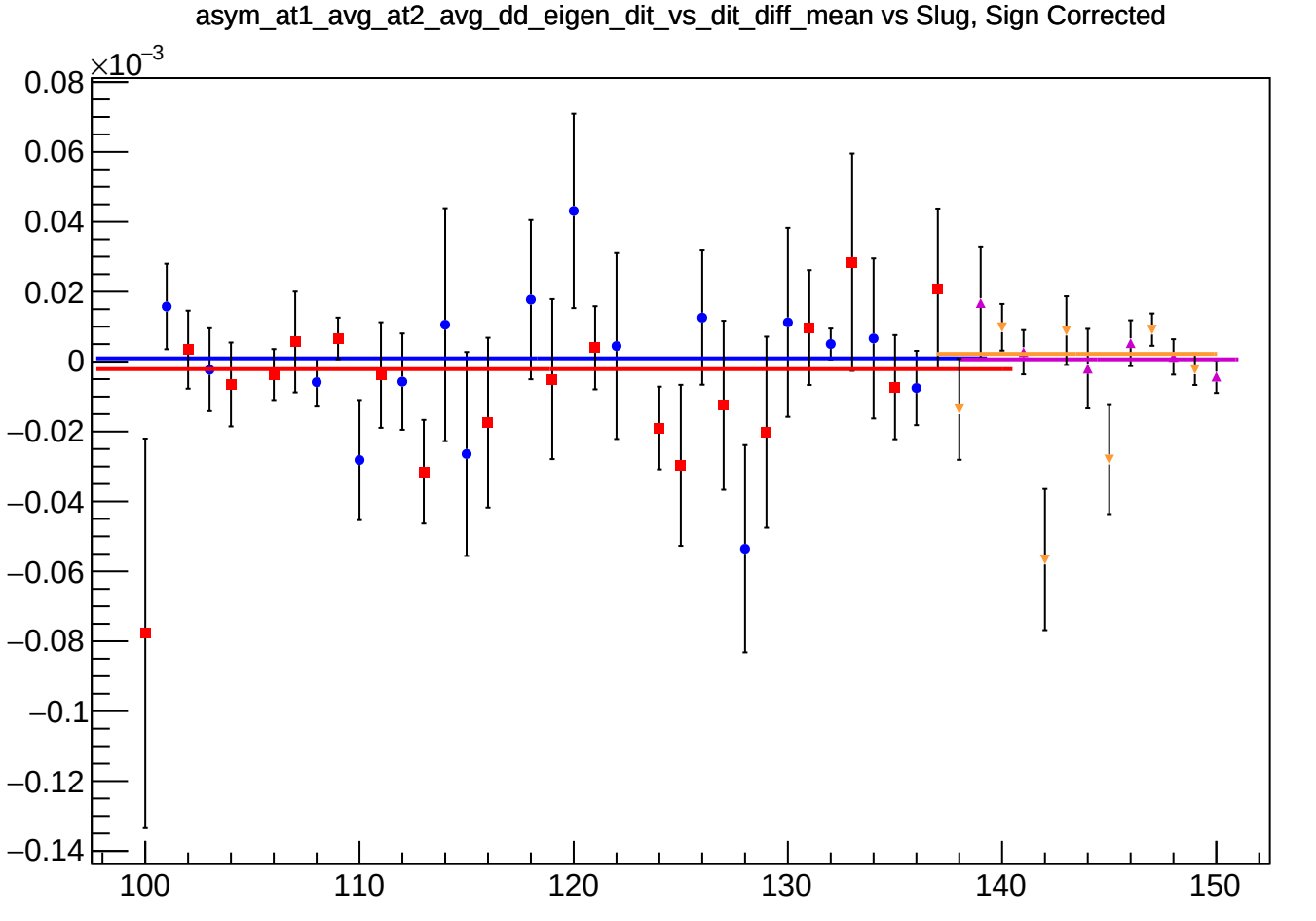
Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

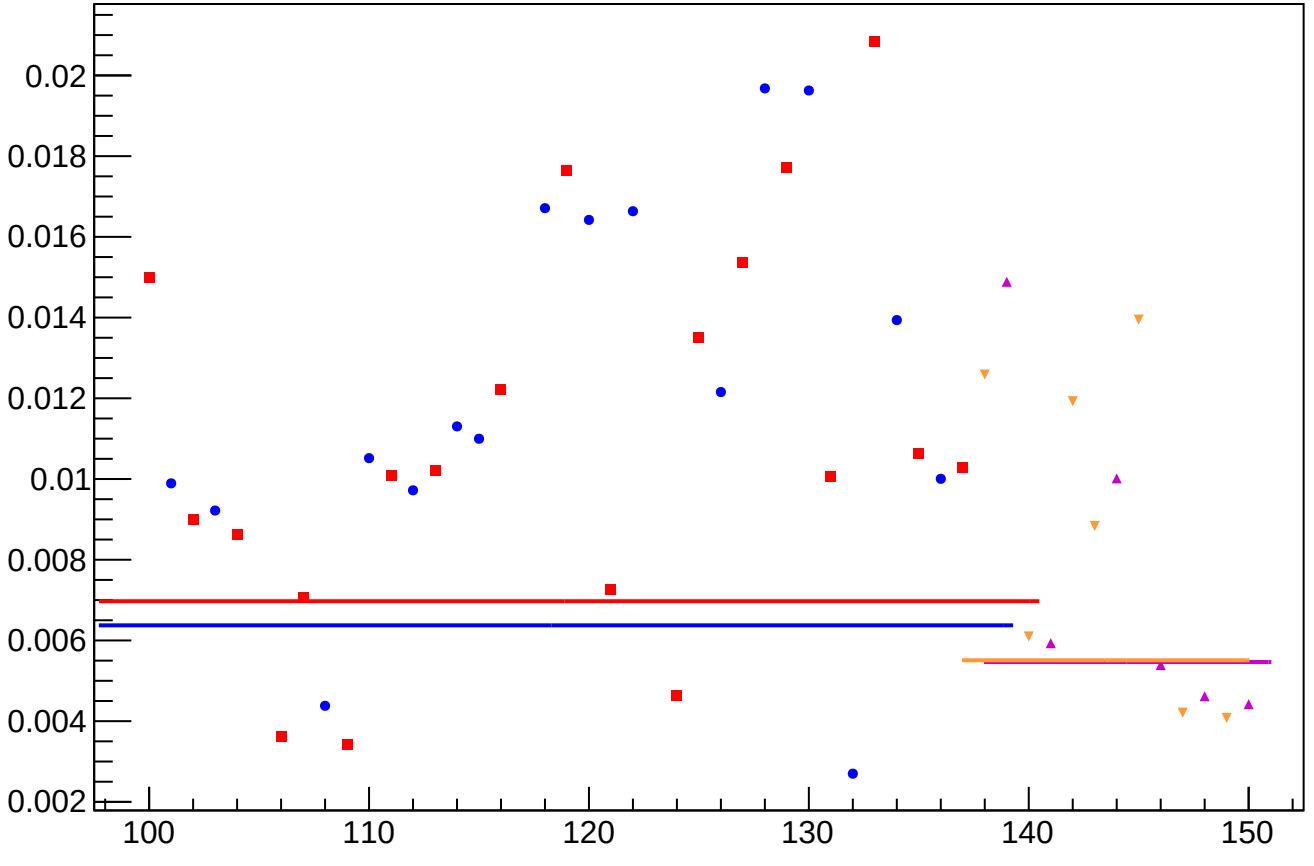
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 14.9/15
Left Out: 0.000+/-0.000 χ²/NDF:18.4/6
Right Out: -0.000+/-0.000 χ²/NDF: 16.0/18
Left In: 0.000+/-0.000 χ²/NDF:2.8/5
Left: 0.000+/-0.000 χ²/NDF: 21.4/12
Right: -0.000+/-0.000 χ²/NDF: 31.5/34
In: 0.000+/-0.000 χ²/NDF:17.6/21
Out: 0.000+/-0.000 χ²/NDF:35.6/25
All: 0.000+/-0.000 χ²/NDF: 53.3/47




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1875056.5/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1164361.1/5

Left: 0.005+/-0.000 $\chi^2$/NDF: 3039685.8/12

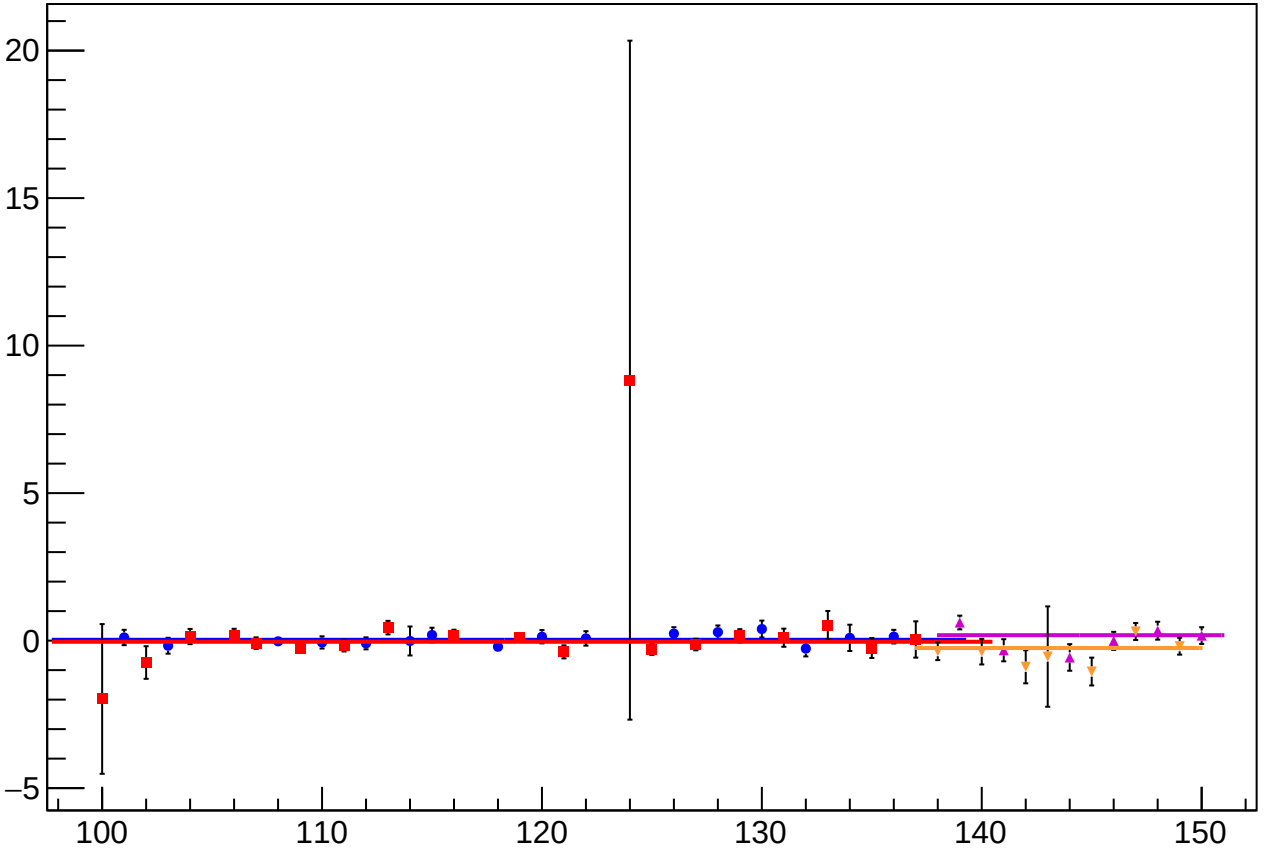
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:5910819.3/21

Out: 0.006+/-0.000 $\chi^2$/NDF:5549528.4/25

All: 0.006+/-0.000 $\chi^2$/NDF: 11480300.2/47

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

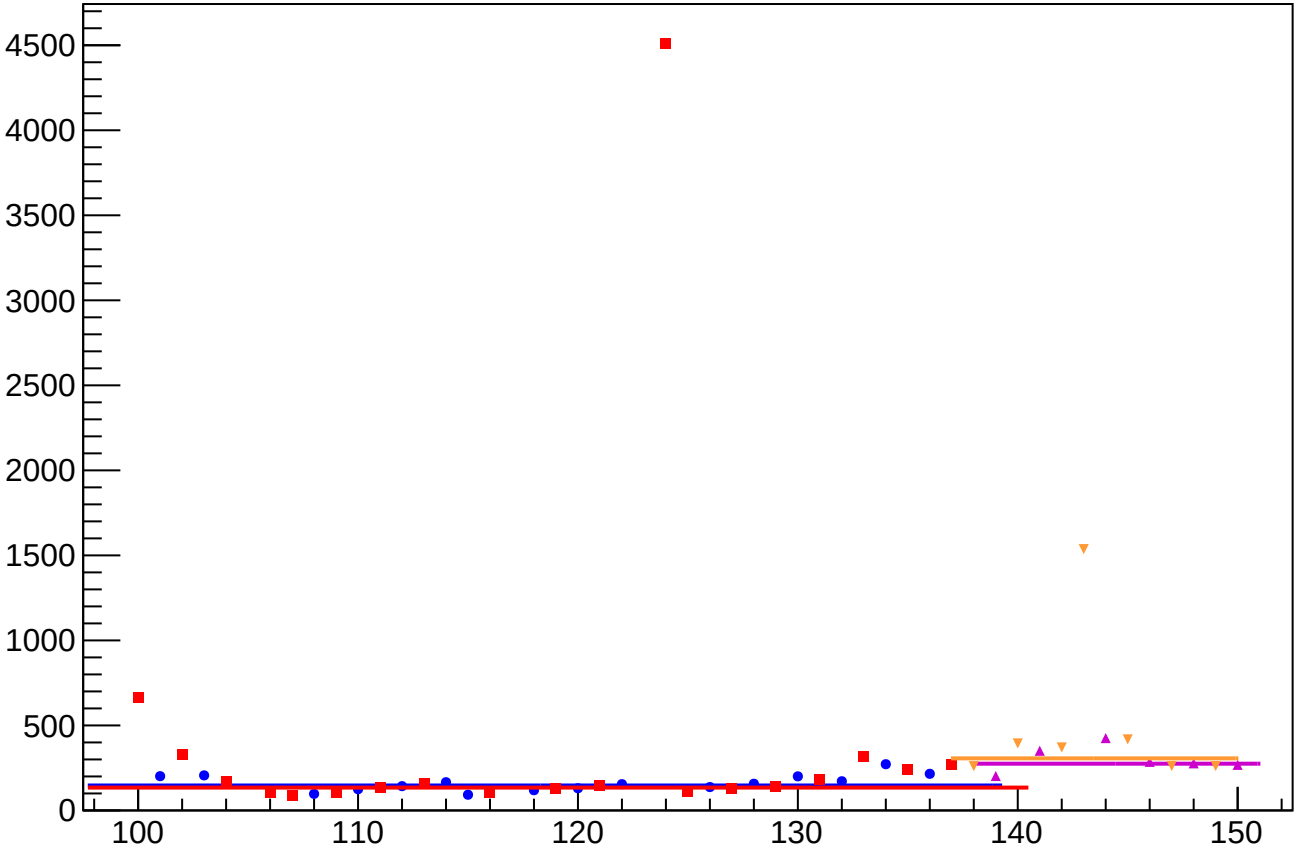
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

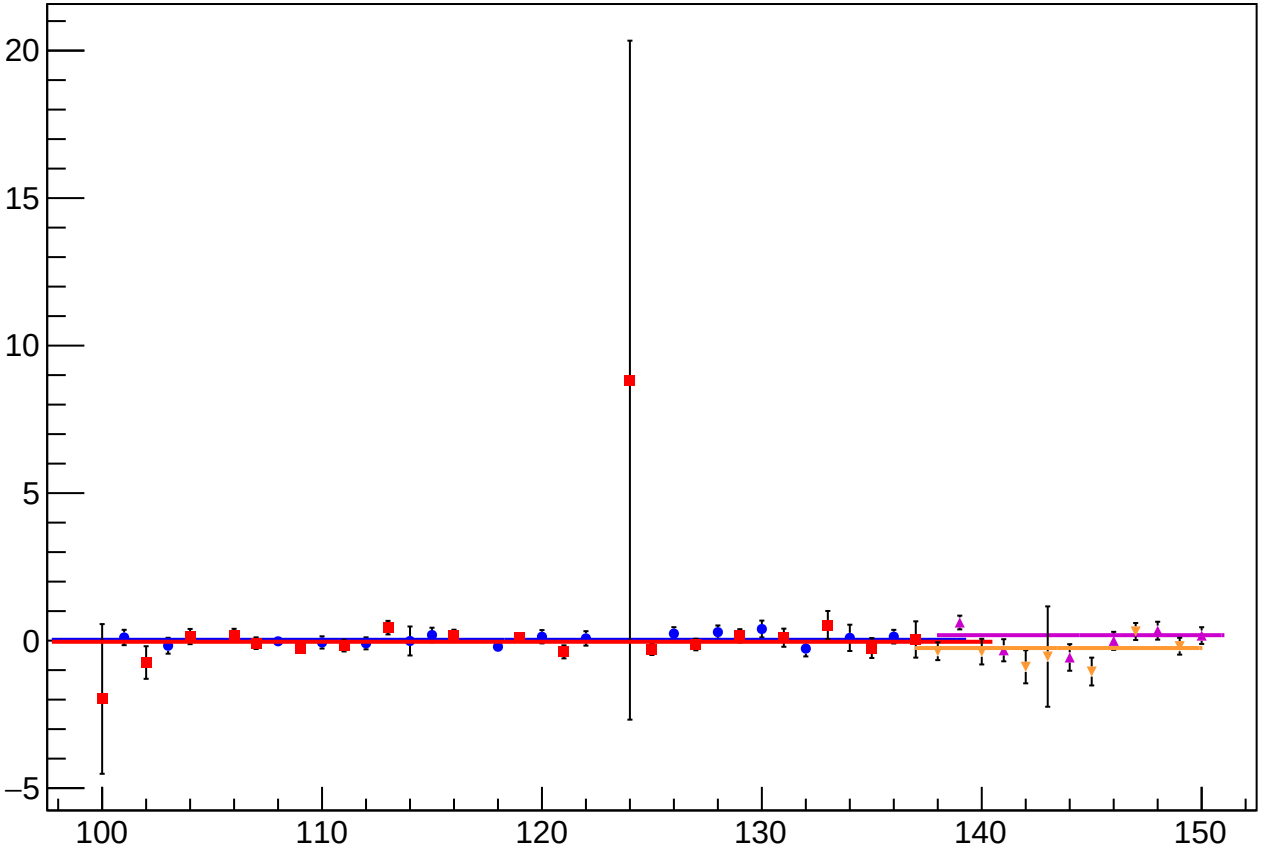
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

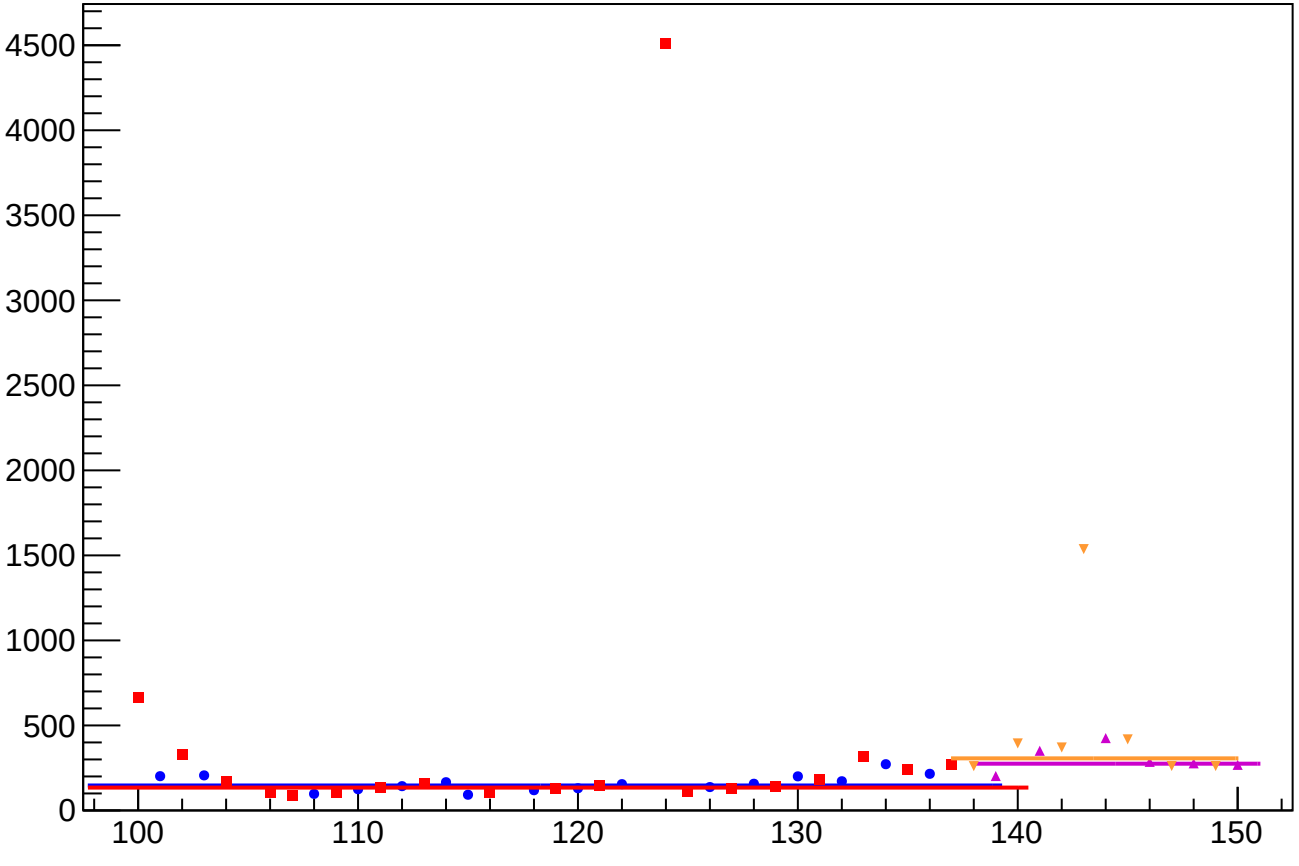
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

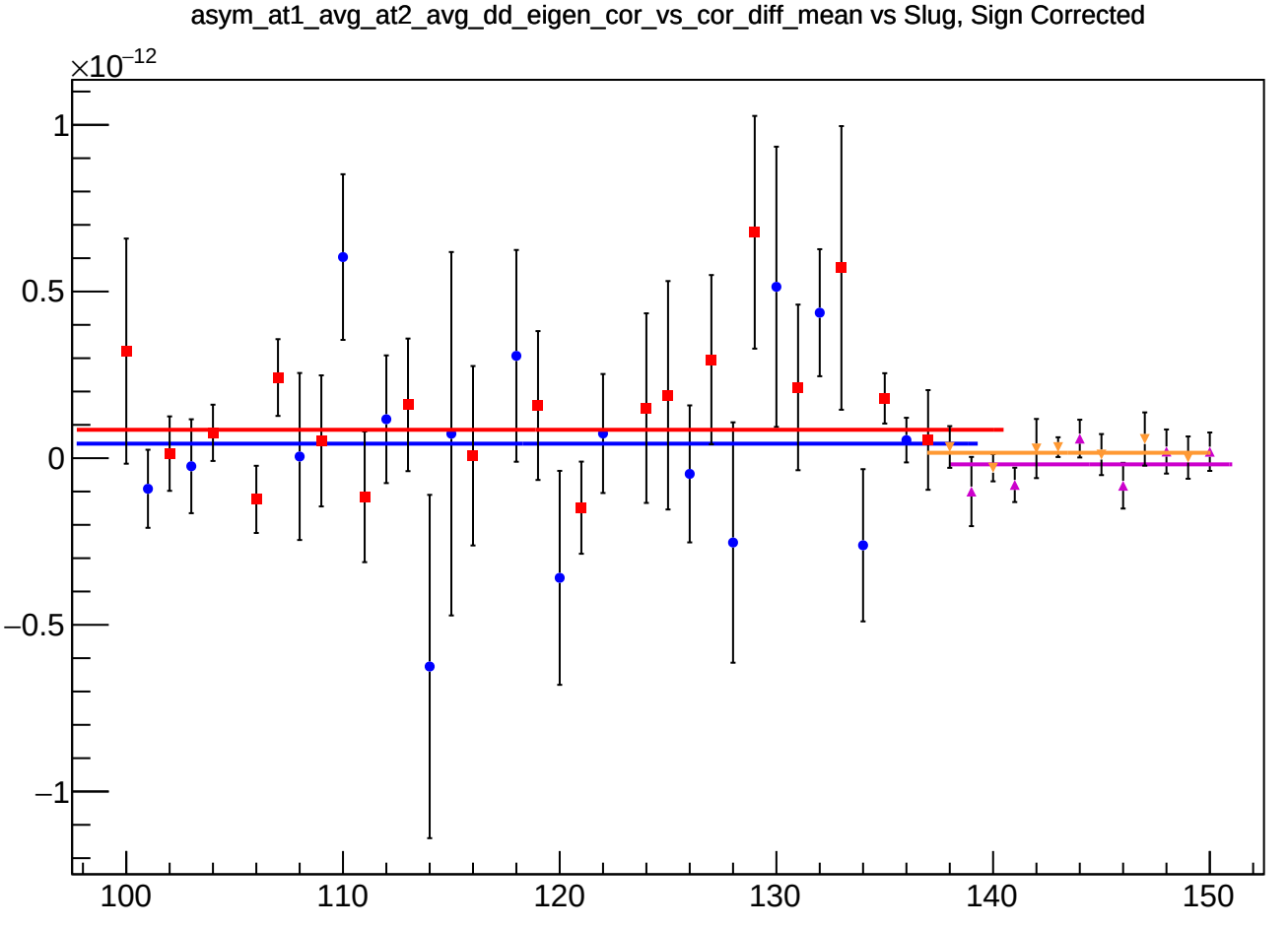
Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.6/5

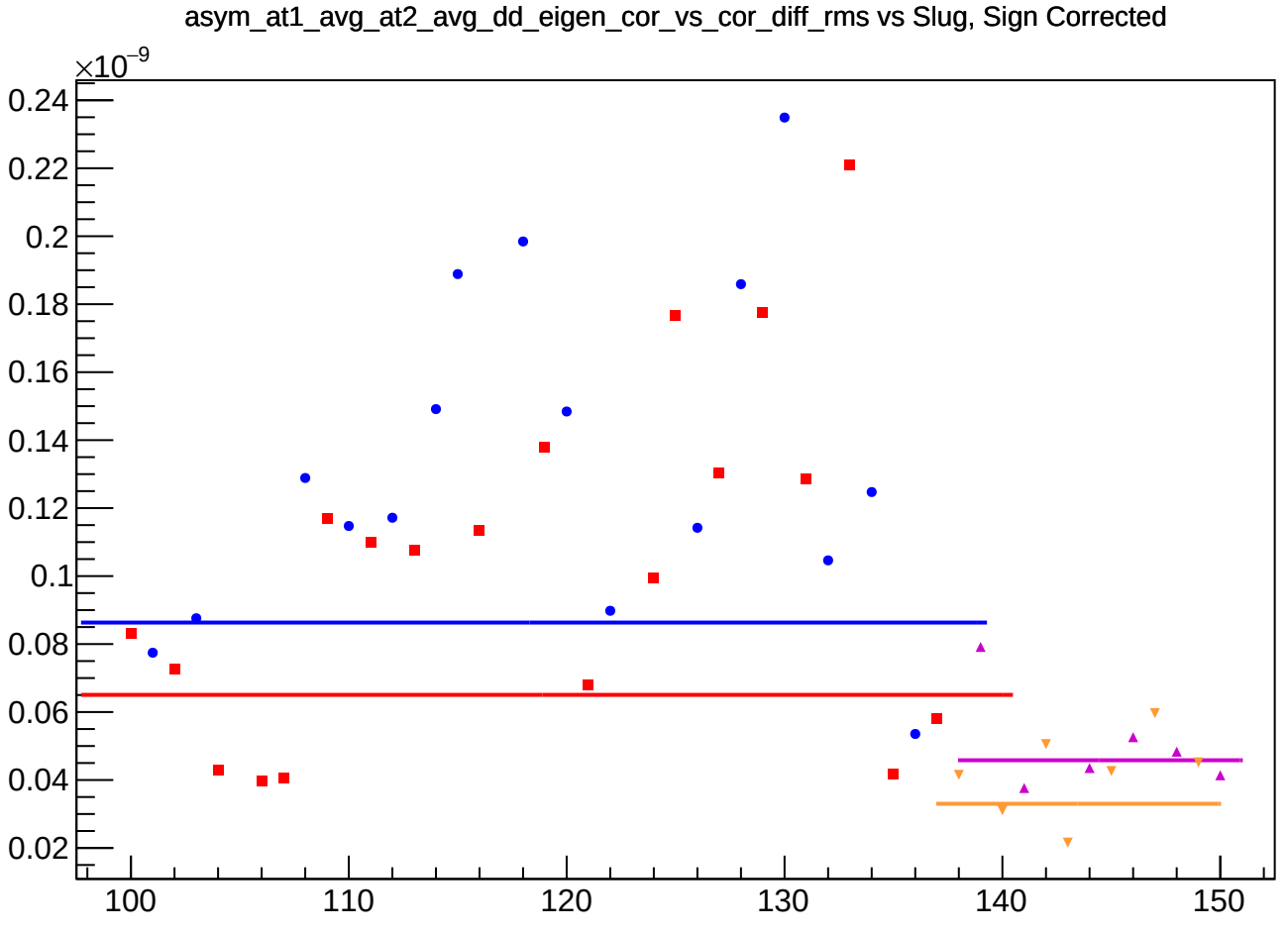
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 50.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:762500.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:294185.6/5

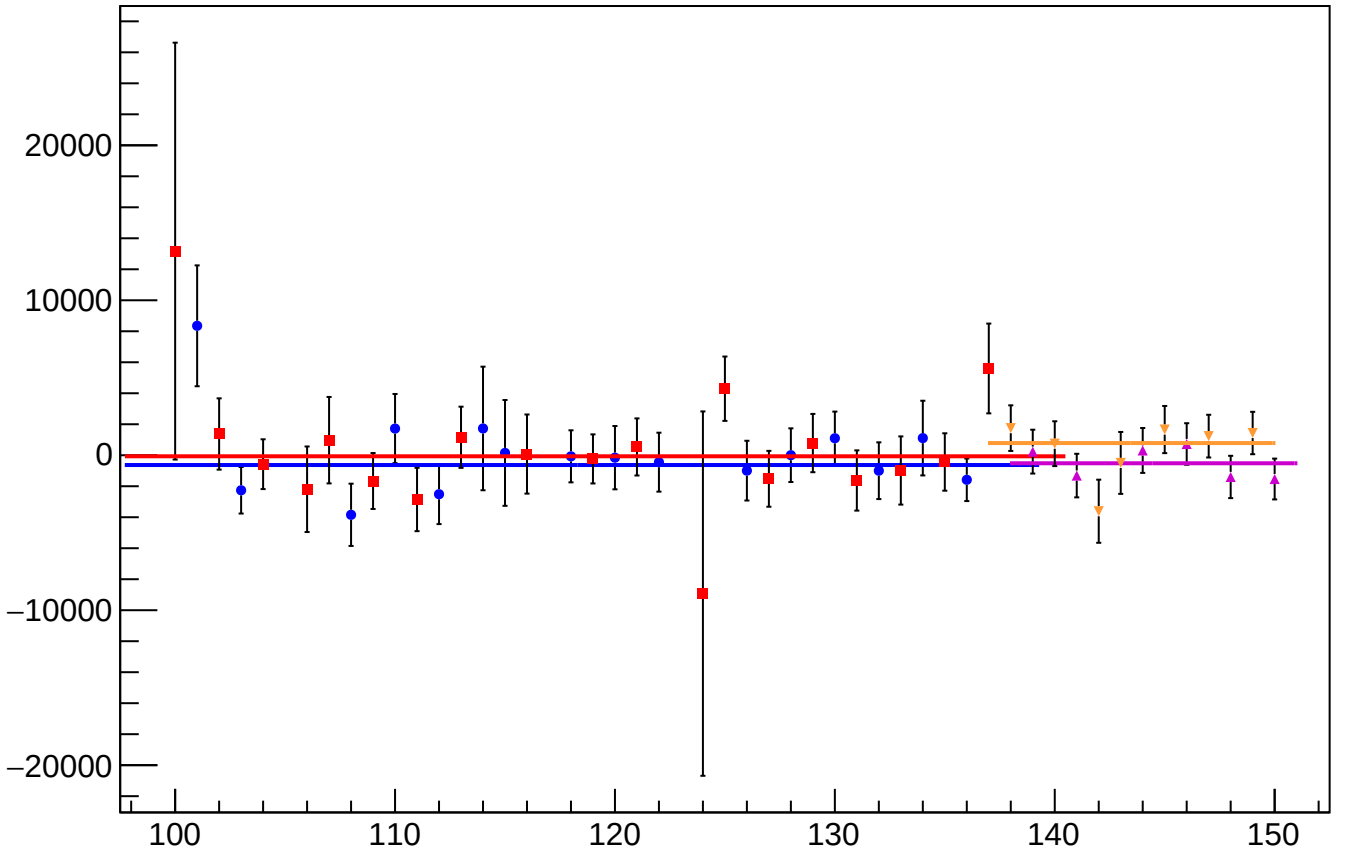
Left: 0.000+/-0.000 $\chi^2$/NDF: 1379773.8/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3181917.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4262877.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8120981.6/47




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.631+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -517.647+/-563.232 $\chi^2$/NDF:2.8/5

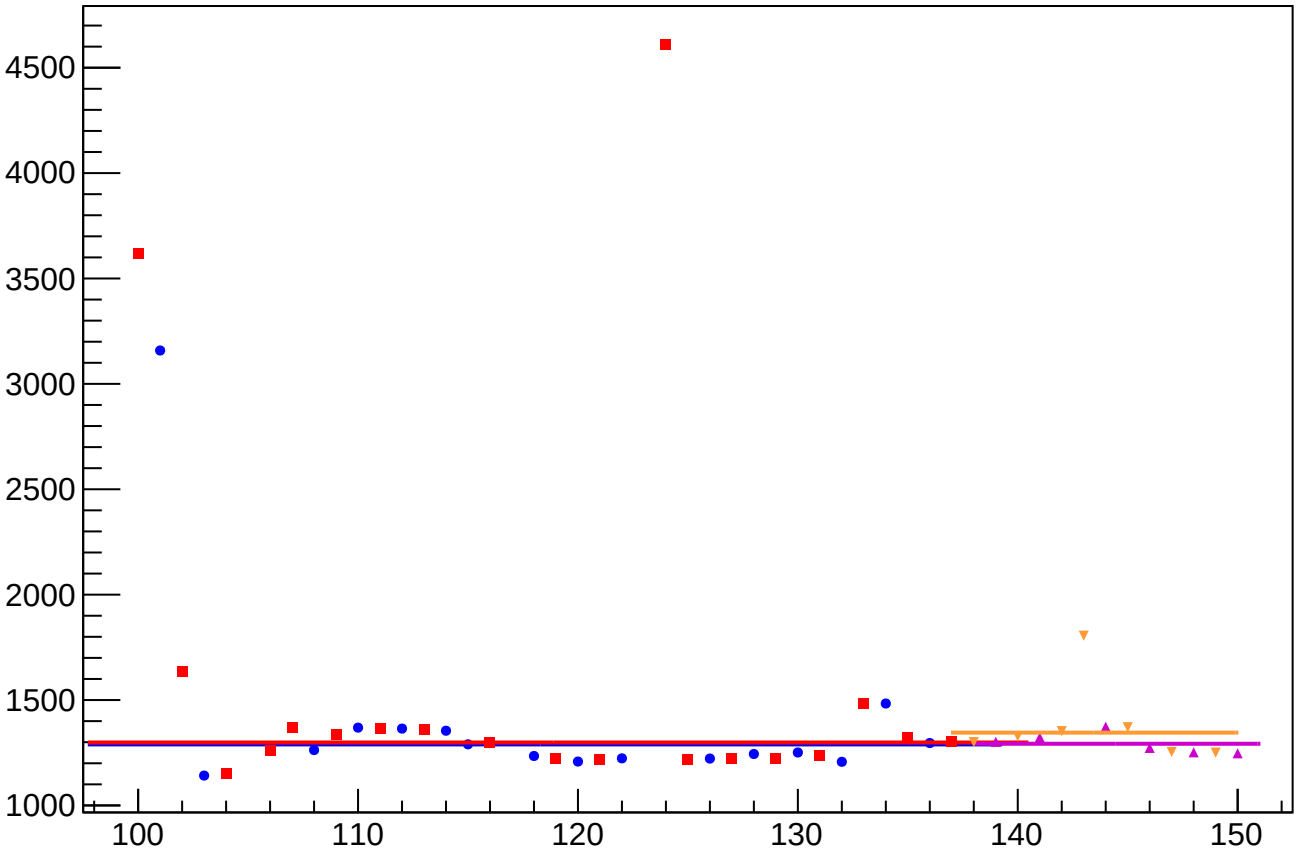
Left: 109.994+/-405.677 $\chi^2$/NDF: 11.6/12

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -582.342+/-369.106 $\chi^2$/NDF:16.7/21

Out: 282.830+/-374.574 $\chi^2$/NDF:23.3/25

All: -156.118+/-262.909 $\chi^2$/NDF: 42.7/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

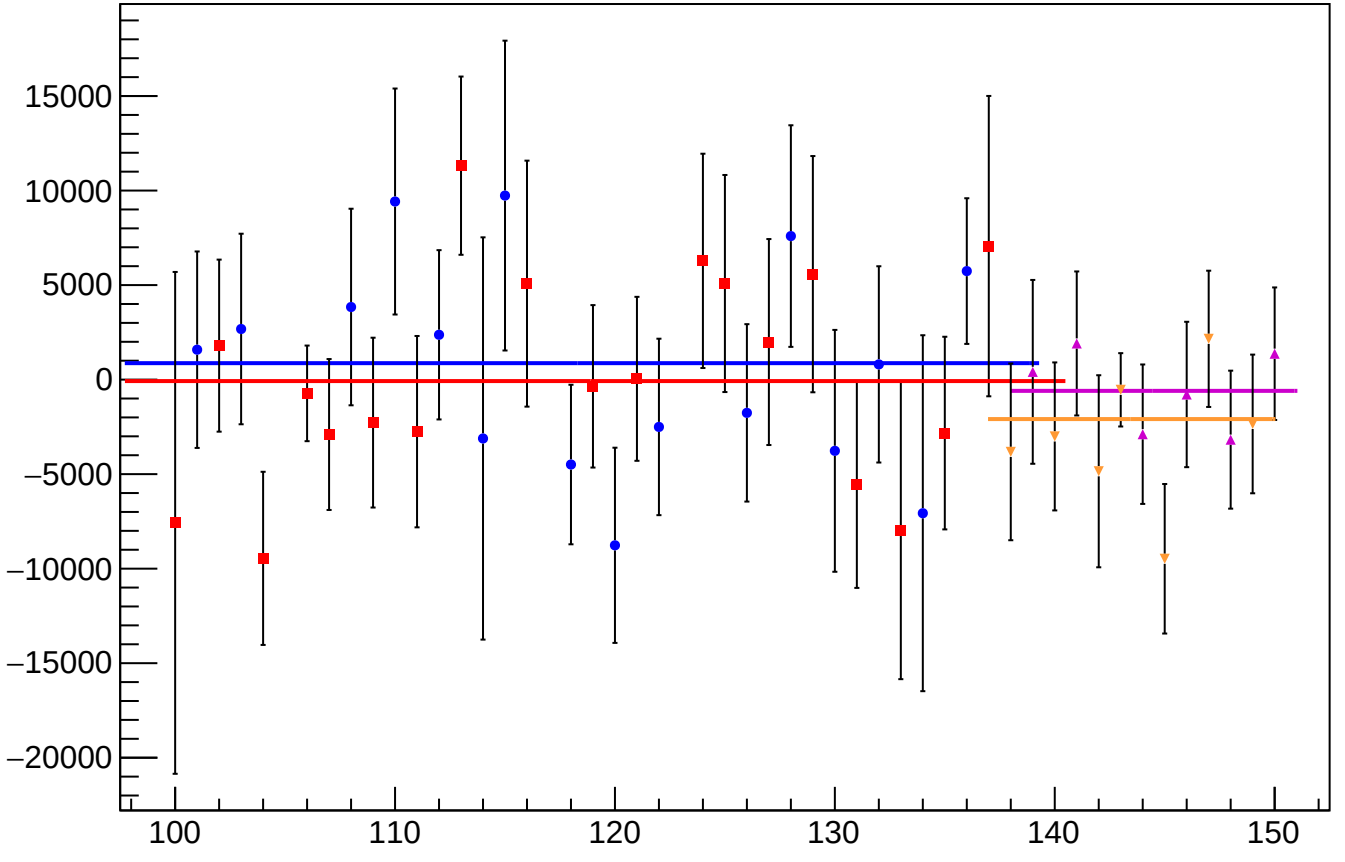
Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526539.1/21

Out: 1317.766+/-0.264 $\chi^2$/NDF:454067.0/25

All: 1304.102+/-0.186 $\chi^2$/NDF: 985876.0/47

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -2087.238+/-1259.002 $\chi^2$/NDF:6.0/6

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -595.059+/-1563.936 $\chi^2$/NDF:1.7/5

Left: -1500.475+/-980.708 $\chi^2$/NDF: 8.2/12

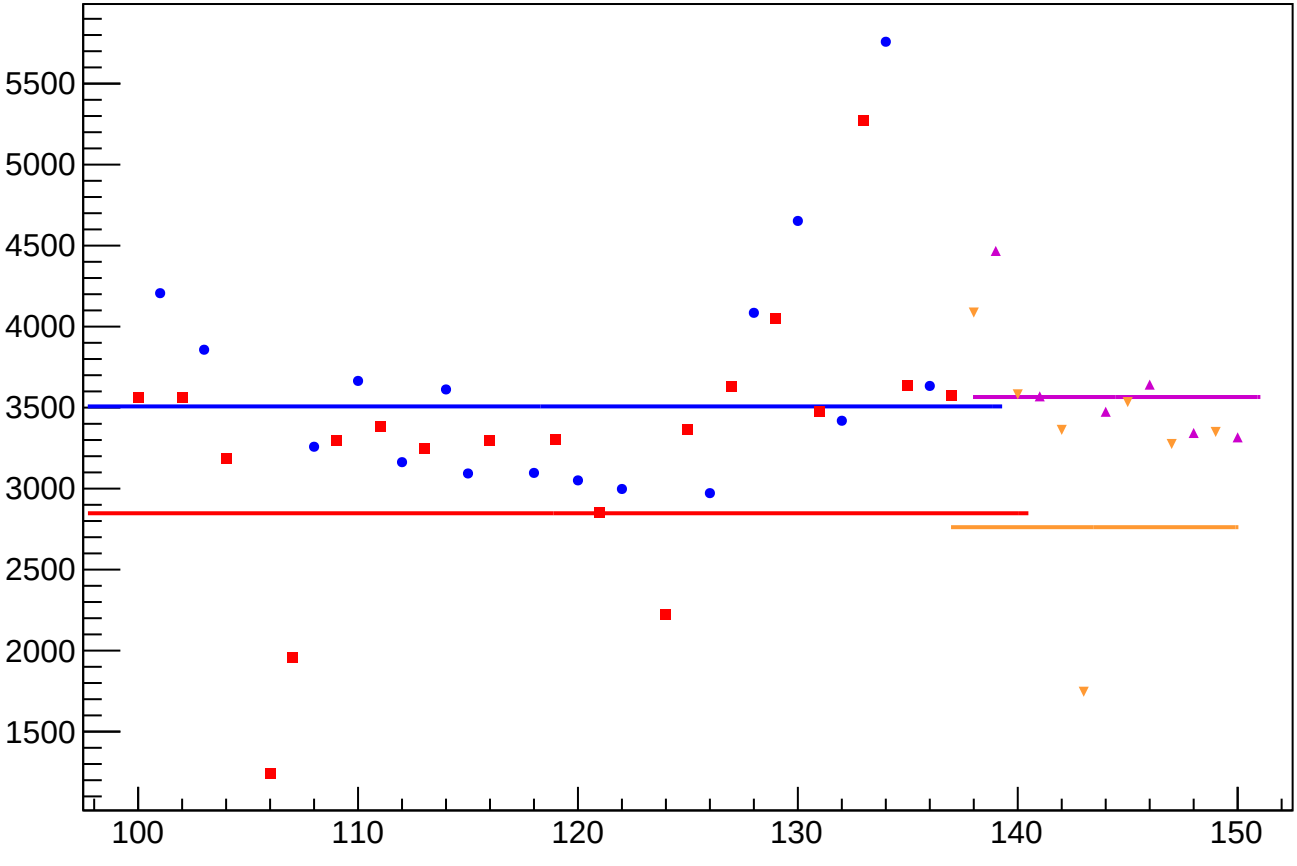
Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 257.840+/-1011.078 $\chi^2$/NDF:16.2/21

Out: -957.319+/-833.063 $\chi^2$/NDF:25.8/25

All: -465.956+/-642.938 $\chi^2$/NDF: 42.9/47

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2761.911+/-0.890 $\chi^2$/NDF:993241.5/6

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3565.427+/-1.106 $\chi^2$/NDF:88295.7/5

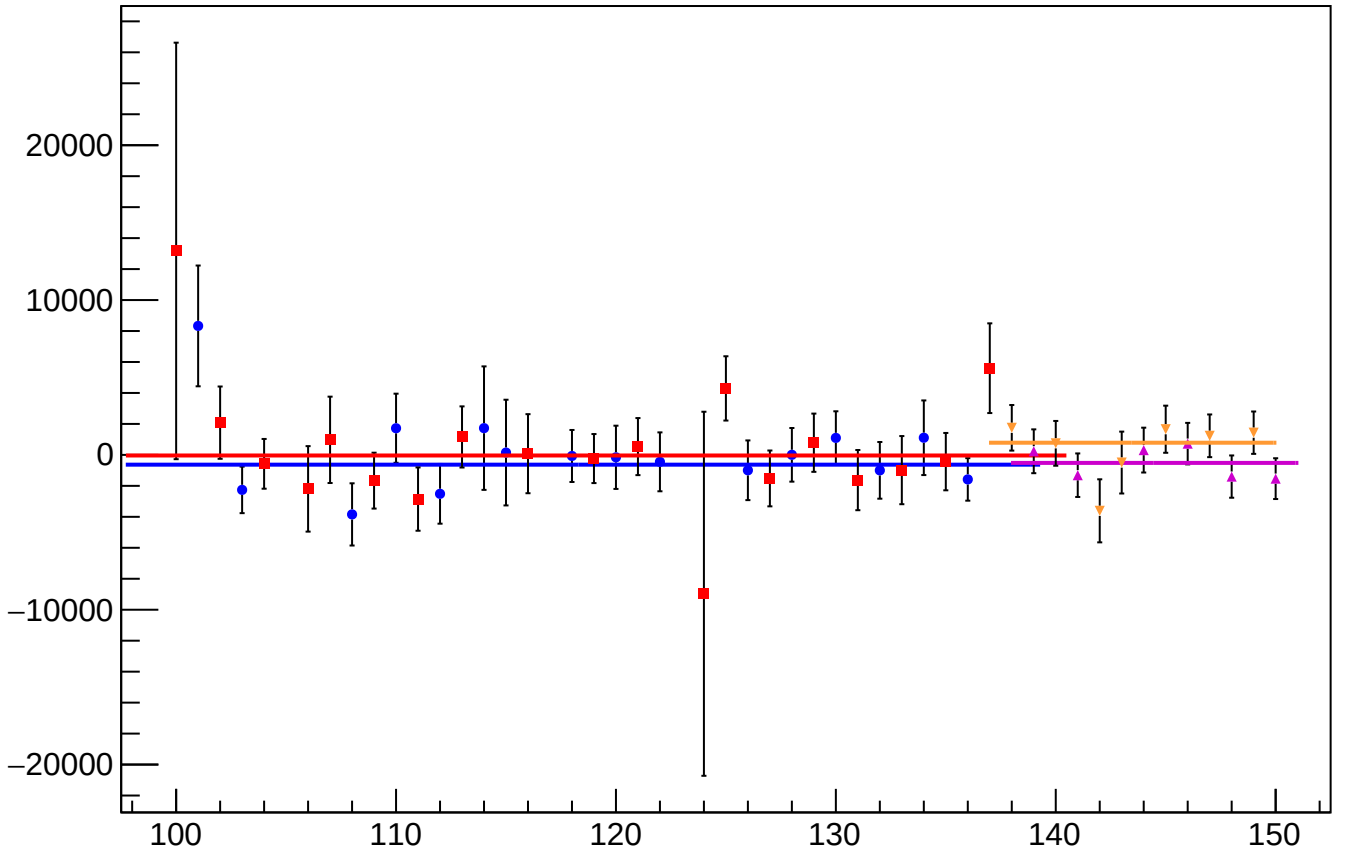
Left: 3077.874+/-0.693 $\chi^2$/NDF: 1401875.3/12

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3531.651+/-0.715 $\chi^2$/NDF:443877.5/21

Out: 2810.214+/-0.589 $\chi^2$/NDF:2497851.8/25

All: 3101.935+/-0.455 $\chi^2$/NDF: 3548243.4/47




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.523+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -517.618+/-563.232 $\chi^2$/NDF:2.8/5

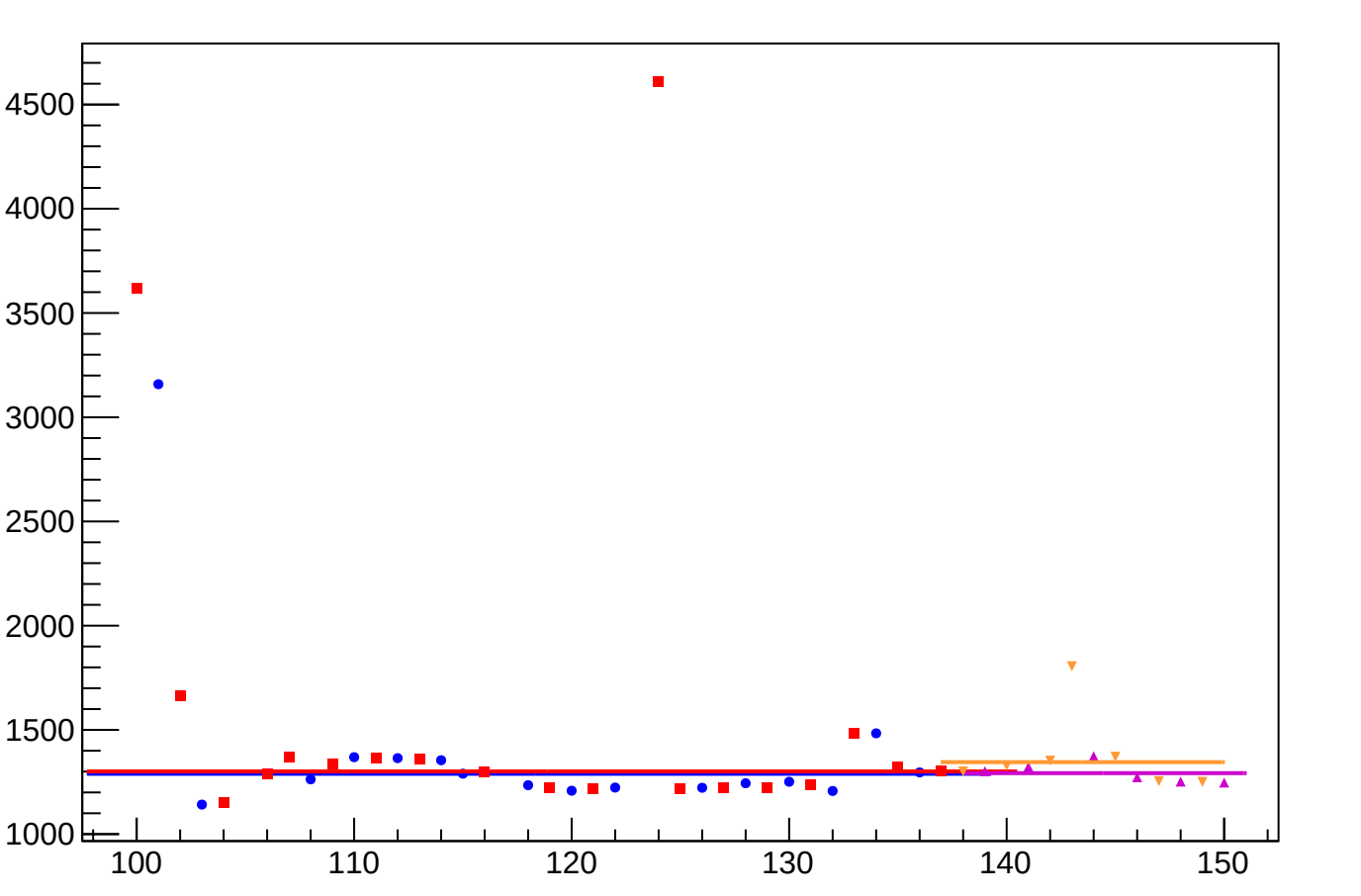
Left: 109.958+/-405.677 $\chi^2$/NDF: 11.5/12

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -582.550+/-369.106 $\chi^2$/NDF:16.7/21

Out: 300.165+/-374.721 $\chi^2$/NDF:23.7/25

All: -147.855+/-262.960 $\chi^2$/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

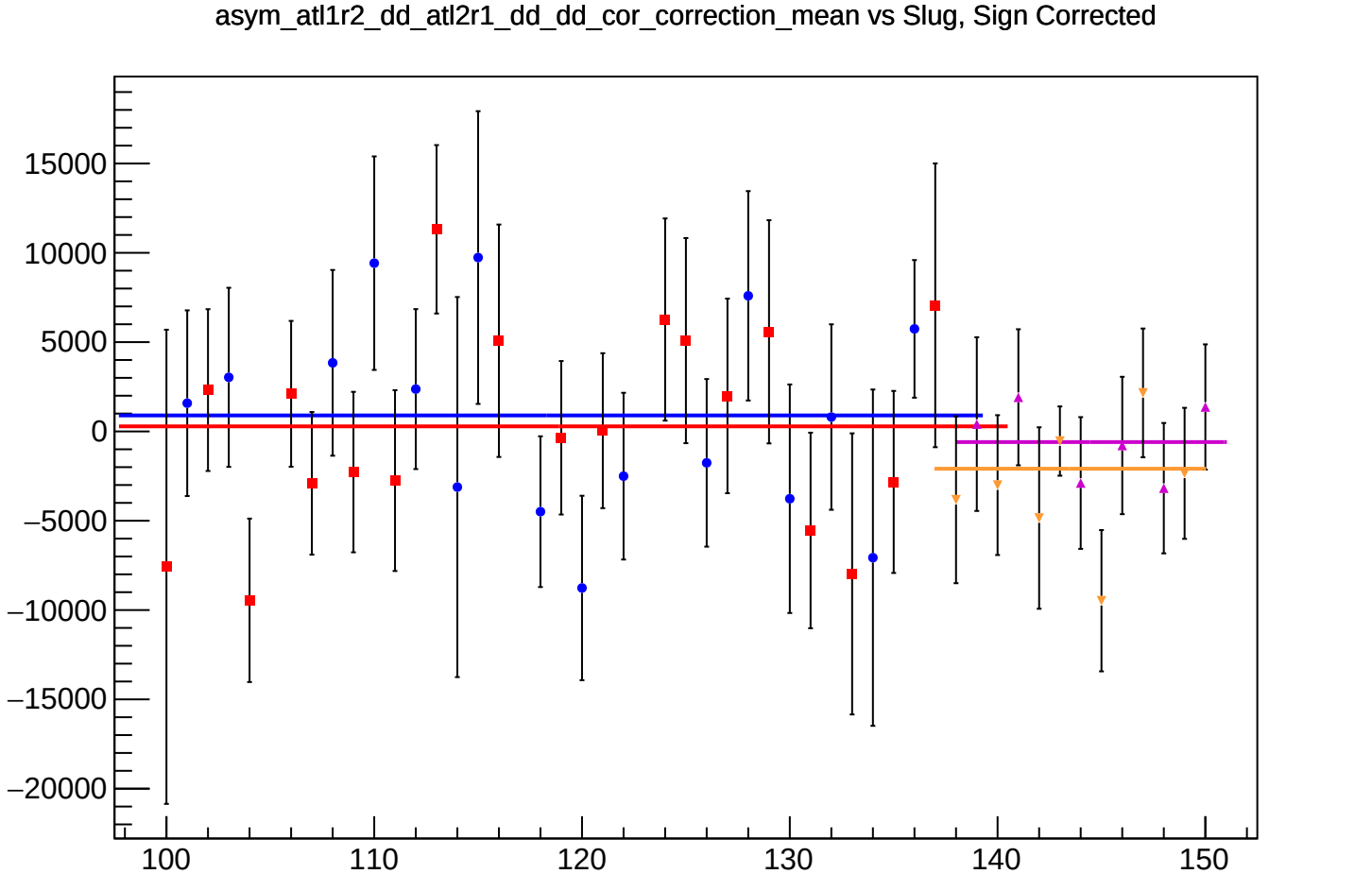
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

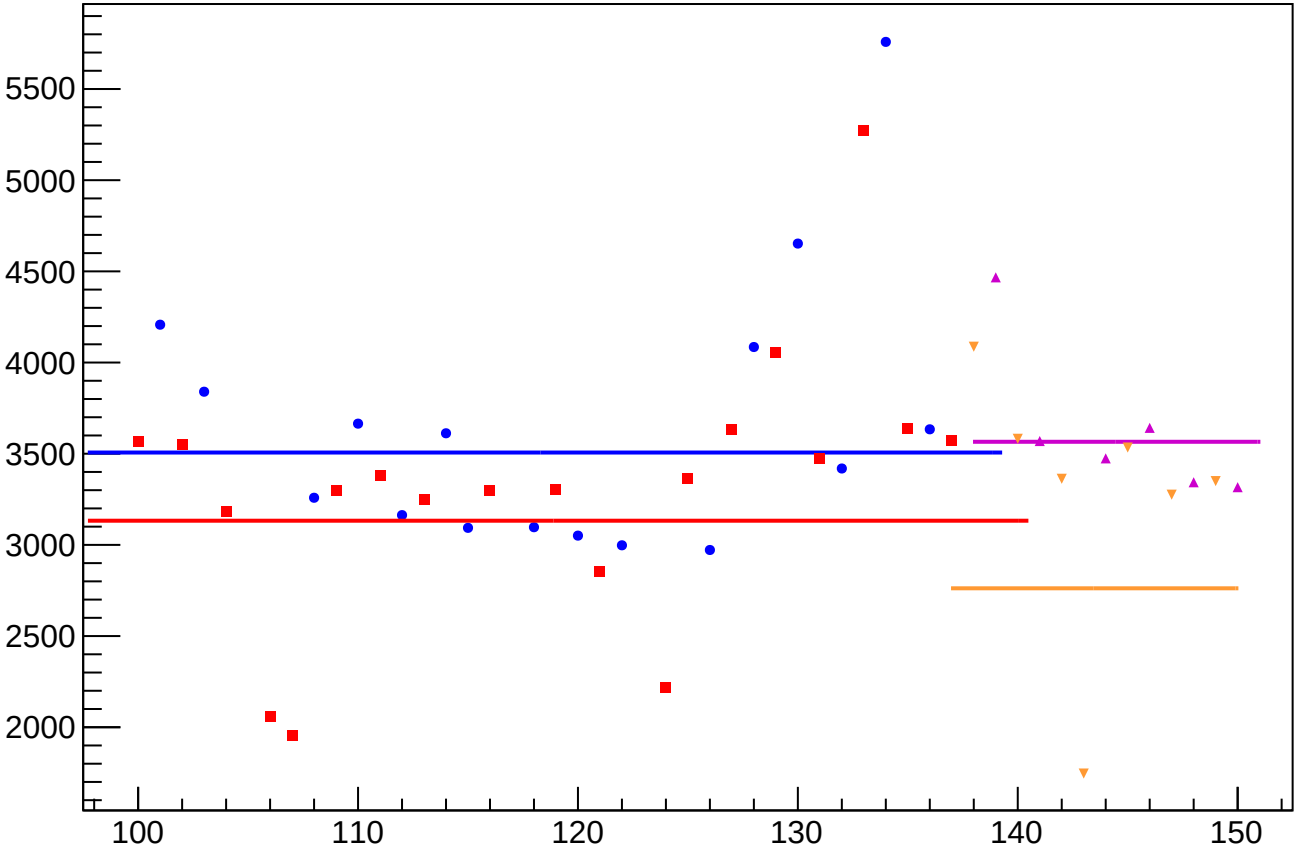
In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2087.137+/-1258.998 χ²/NDF:6.0/6
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -595.101+/-1563.934 χ²/NDF:1.7/5
Left: -1500.431+/-980.706 χ²/NDF: 8.2/12
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 273.042+/-1010.875 χ²/NDF:16.3/21
Out: -828.039+/-862.189 χ²/NDF:26.5/25
All: -364.356+/-655.992 χ²/NDF: 43.5/47

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

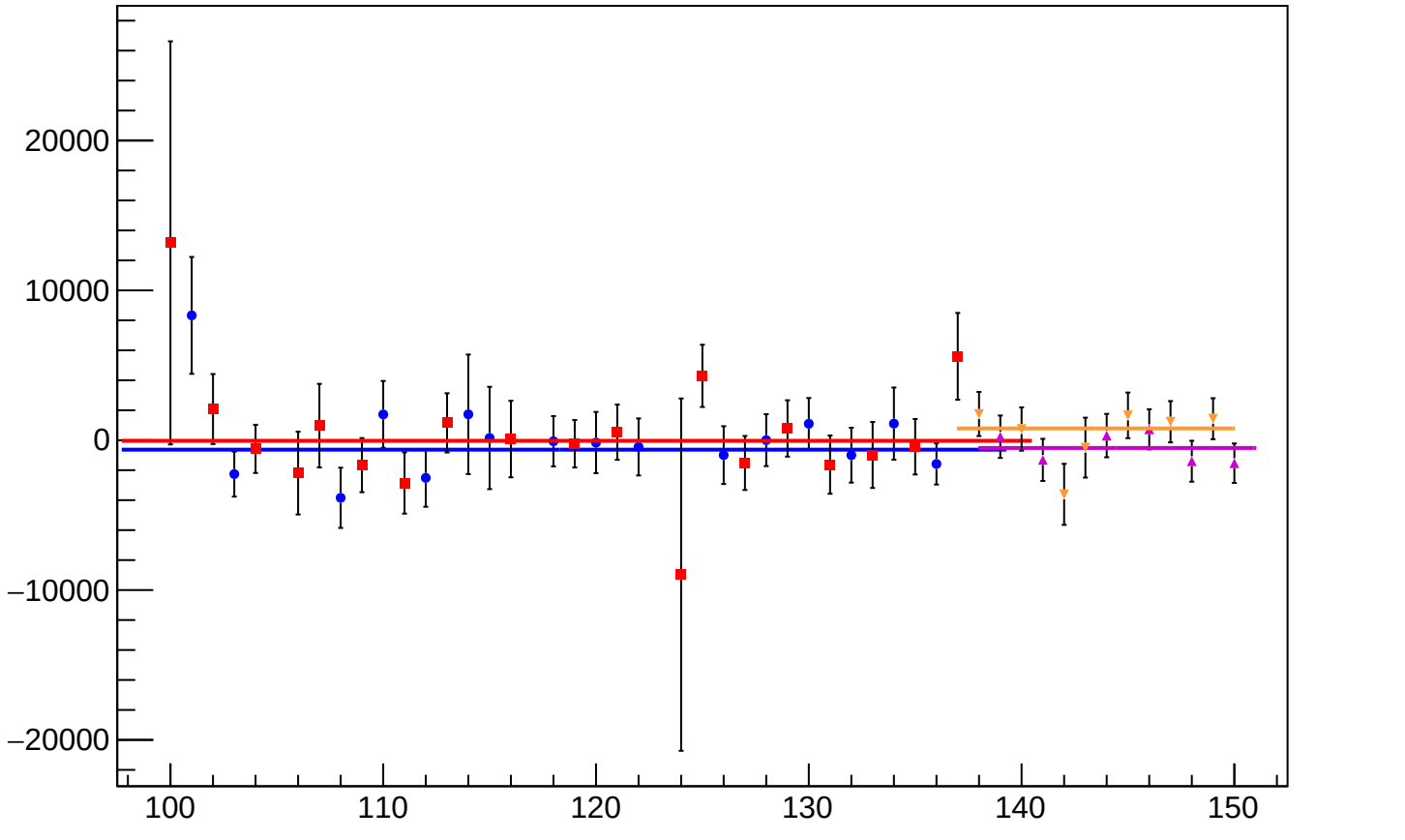
Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 786.523+/-584.802 $\chi^2$/NDF:6.2/6

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -517.618+/-563.232 $\chi^2$/NDF:2.8/5

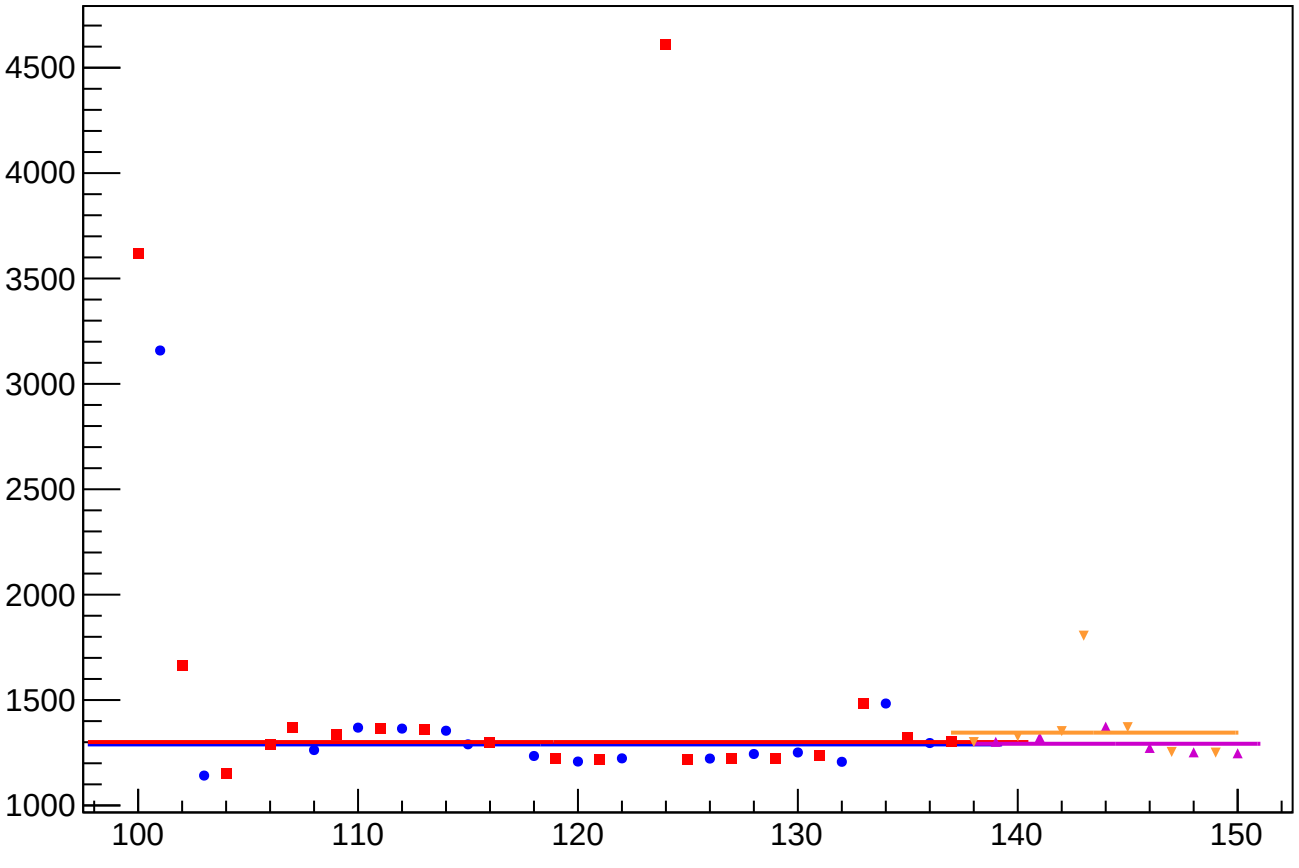
Left: 109.958+/-405.677 $\chi^2$/NDF: 11.5/12

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -582.550+/-369.106 $\chi^2$/NDF:16.7/21

Out: 300.165+/-374.721 $\chi^2$/NDF:23.7/25

All: -147.855+/-262.960 $\chi^2$/NDF: 43.2/47




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1345.381+/-0.414 $\chi^2$/NDF:127146.3/6

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1292.555+/-0.398 $\chi^2$/NDF:11829.7/5

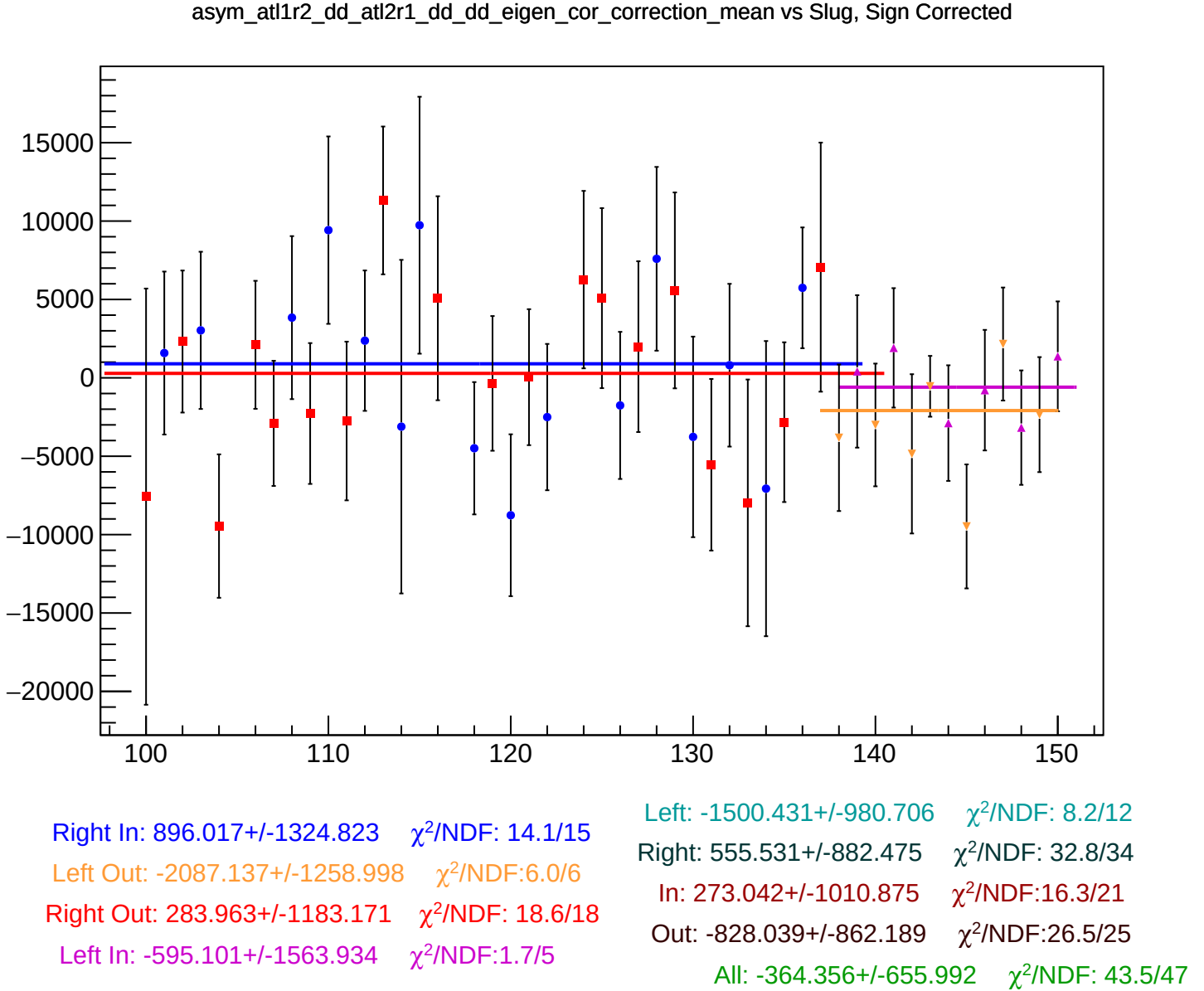
Left: 1317.976+/-0.287 $\chi^2$/NDF: 147442.2/12

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1290.793+/-0.261 $\chi^2$/NDF:526540.5/21

Out: 1318.996+/-0.265 $\chi^2$/NDF:459950.8/25

All: 1304.697+/-0.186 $\chi^2$/NDF: 992247.9/47


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
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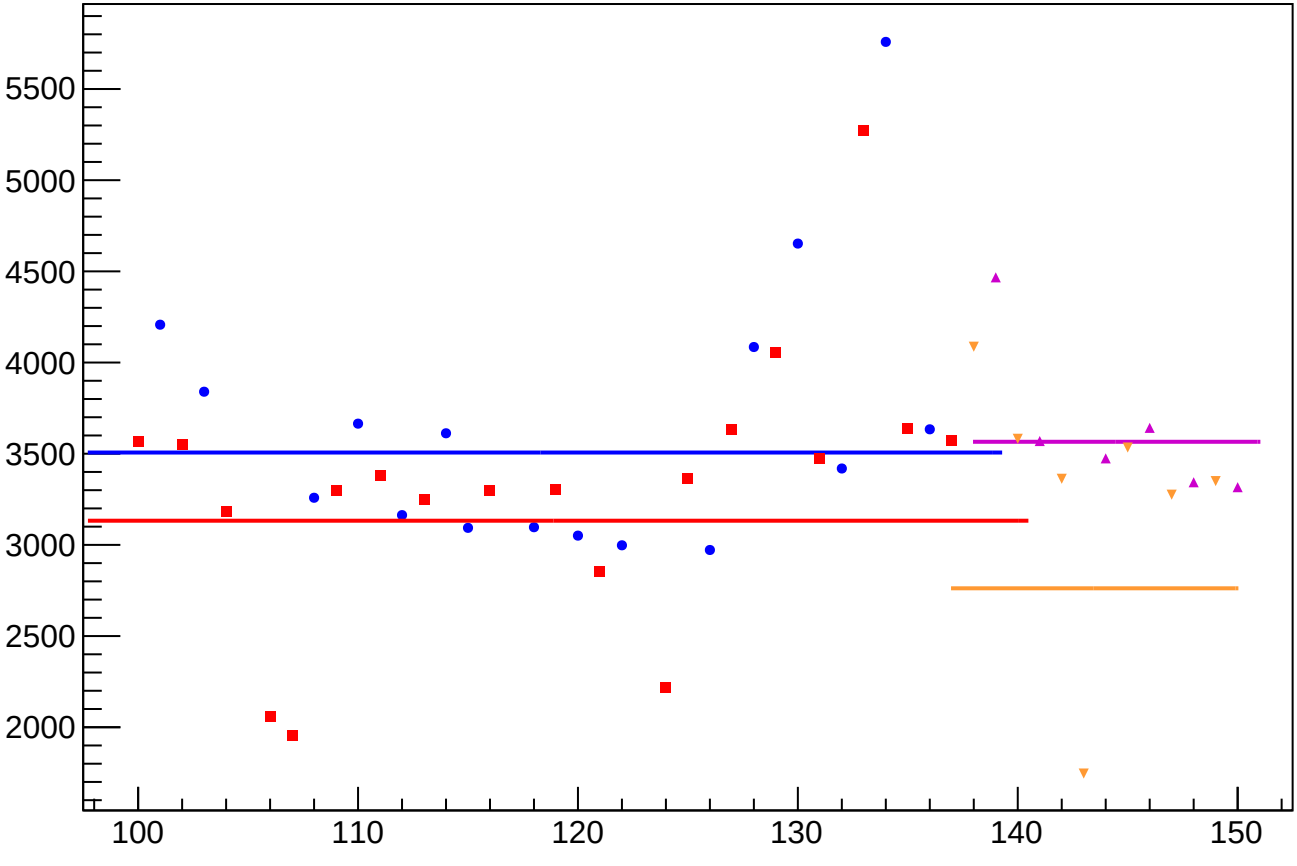
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2087.137+/-1258.998 χ²/NDF:6.0/6
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -595.101+/-1563.934 χ²/NDF:1.7/5
Left: -1500.431+/-980.706 χ²/NDF: 8.2/12
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 273.042+/-1010.875 χ²/NDF:16.3/21
Out: -828.039+/-862.189 χ²/NDF:26.5/25
All: -364.356+/-655.992 χ²/NDF: 43.5/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2761.900+/-0.890 $\chi^2$/NDF:993256.0/6

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3565.422+/-1.106 $\chi^2$/NDF:88295.0/5

Left: 3077.864+/-0.693 $\chi^2$/NDF: 1401895.2/12

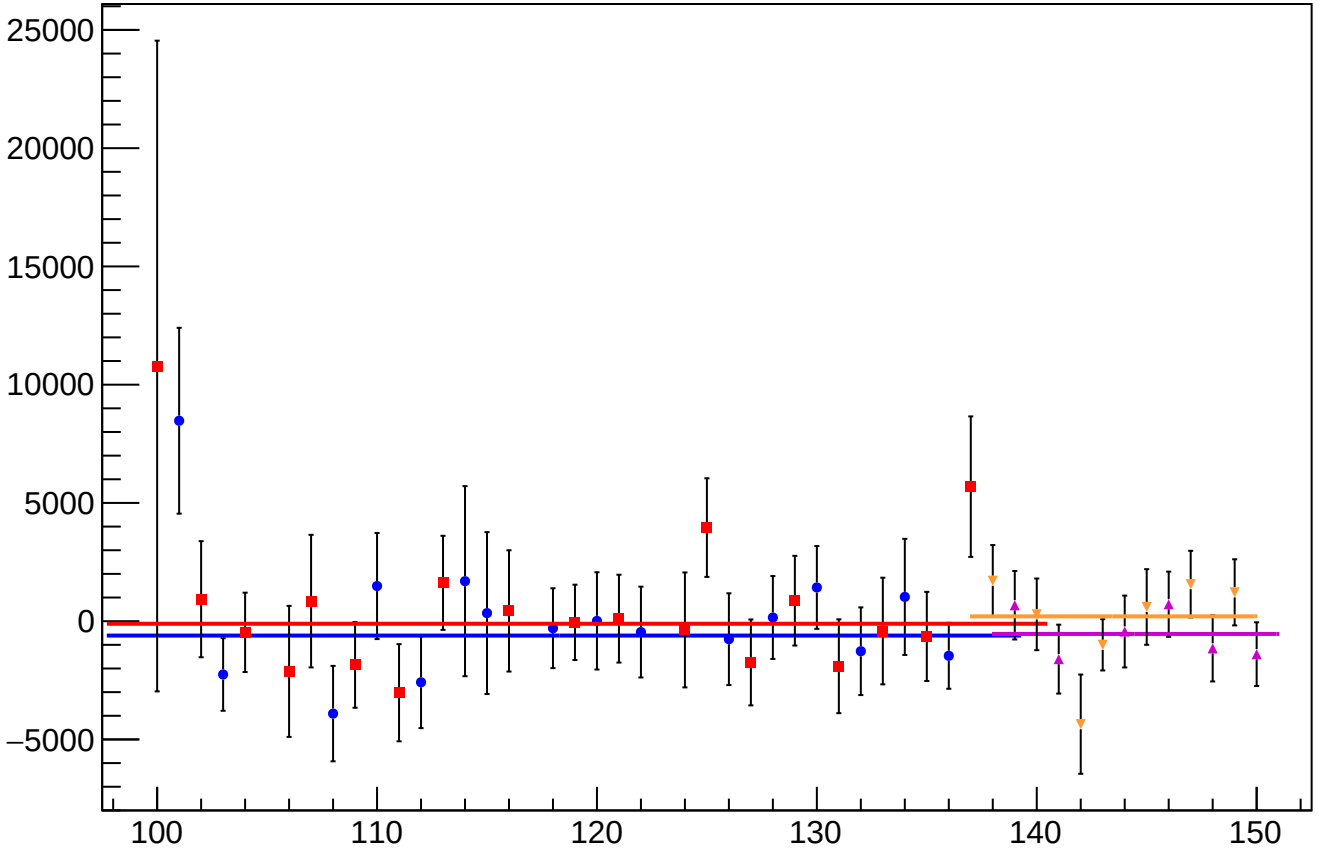
Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3531.108+/-0.715 $\chi^2$/NDF:443186.4/21

Out: 2958.741+/-0.610 $\chi^2$/NDF:1734934.2/25

All: 3199.774+/-0.464 $\chi^2$/NDF: 2549292.2/47

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.117+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.335 $\chi^2$/NDF:2.7/5

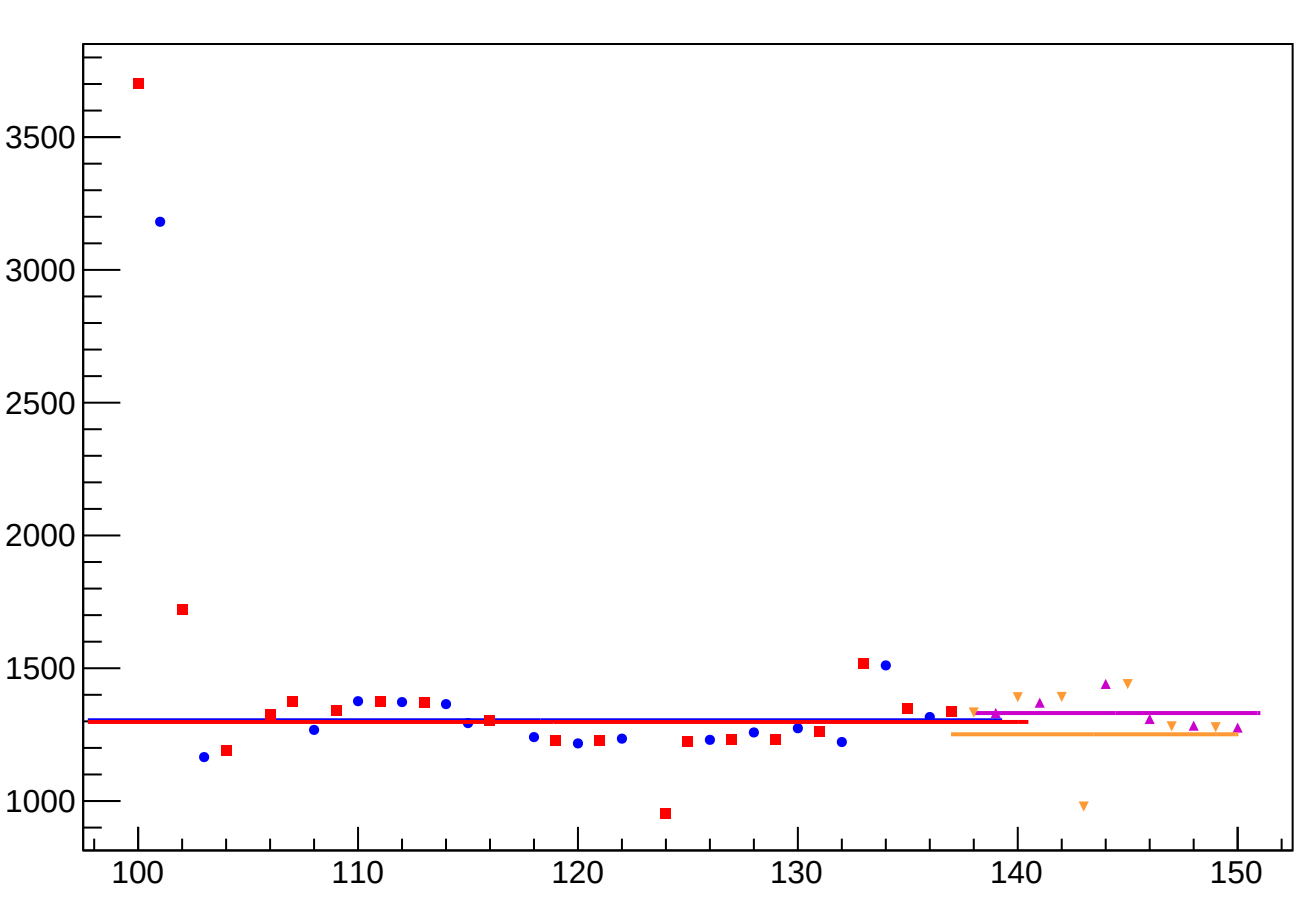
Left: -144.585+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.960+/-376.249 $\chi^2$/NDF:16.8/21

Out: 29.610+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.526+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1251.266+/-0.386 $\chi^2$/NDF:187430.1/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1331.283+/-0.410 $\chi^2$/NDF:18010.4/5

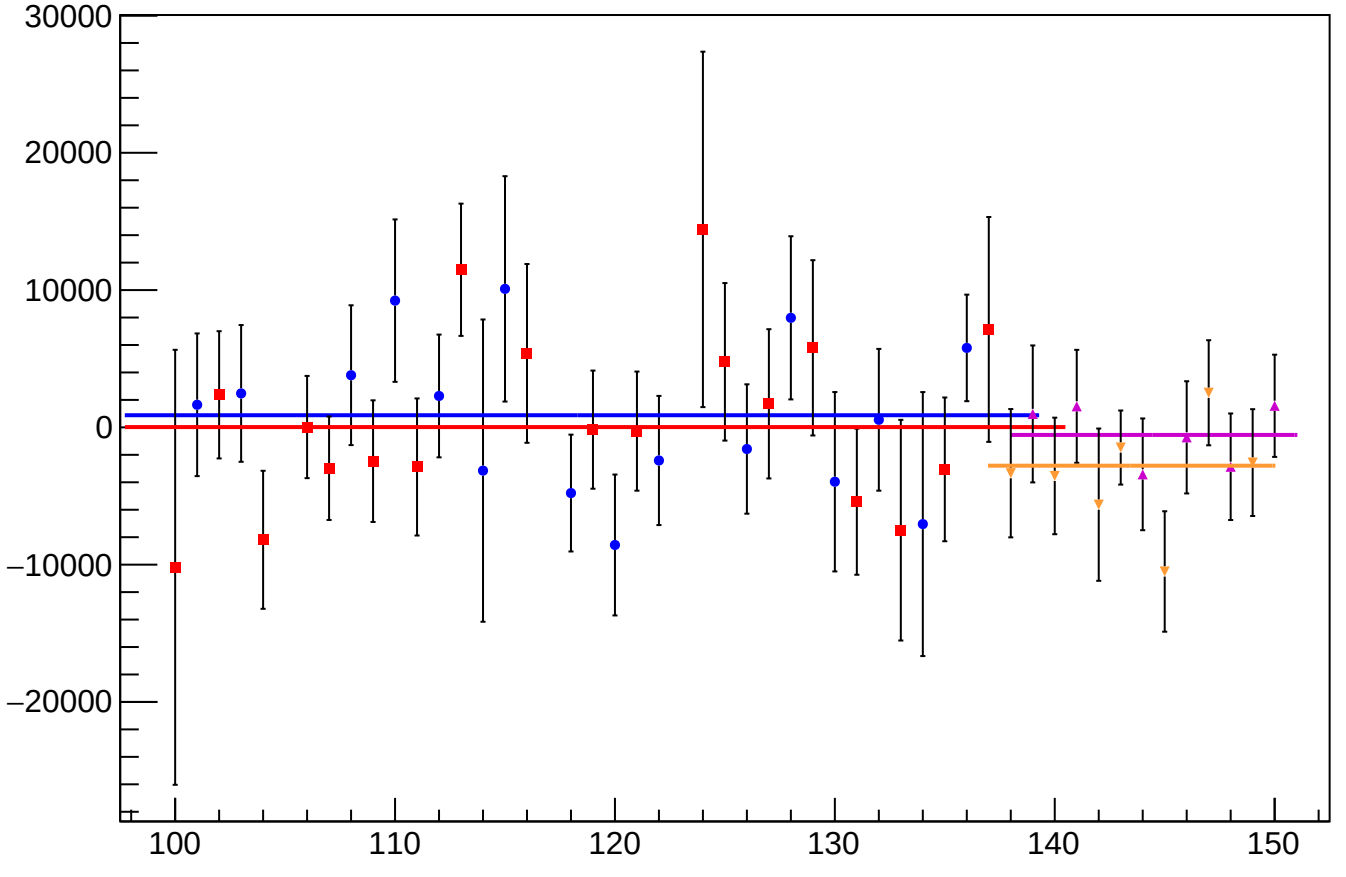
Left: 1288.806+/-0.281 $\chi^2$/NDF: 225624.6/12

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1315.527+/-0.266 $\chi^2$/NDF:531142.9/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.0/47




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.285 $\chi^2$/NDF:5.6/6

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -550.568+/-1670.988 $\chi^2$/NDF:1.5/5

Left: -1807.622+/-1107.196 $\chi^2$/NDF: 8.1/12

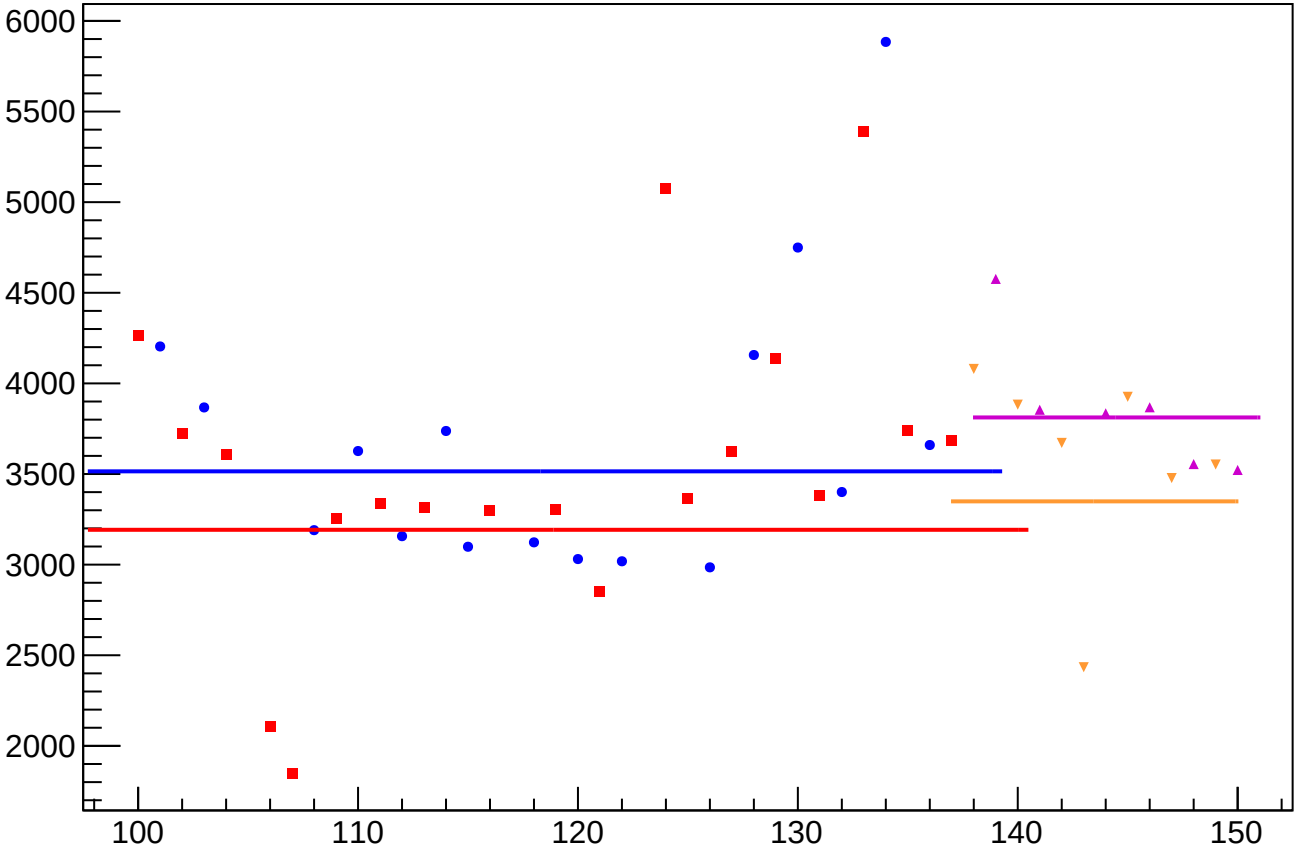
Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 329.010+/-1039.368 $\chi^2$/NDF:16.1/21

Out: -1096.334+/-931.685 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.758 $\chi^2$/NDF: 41.7/47

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3349.085+/-1.045 $\chi^2$/NDF:359788.3/6

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 3812.116+/-1.182 $\chi^2$/NDF:68525.5/5

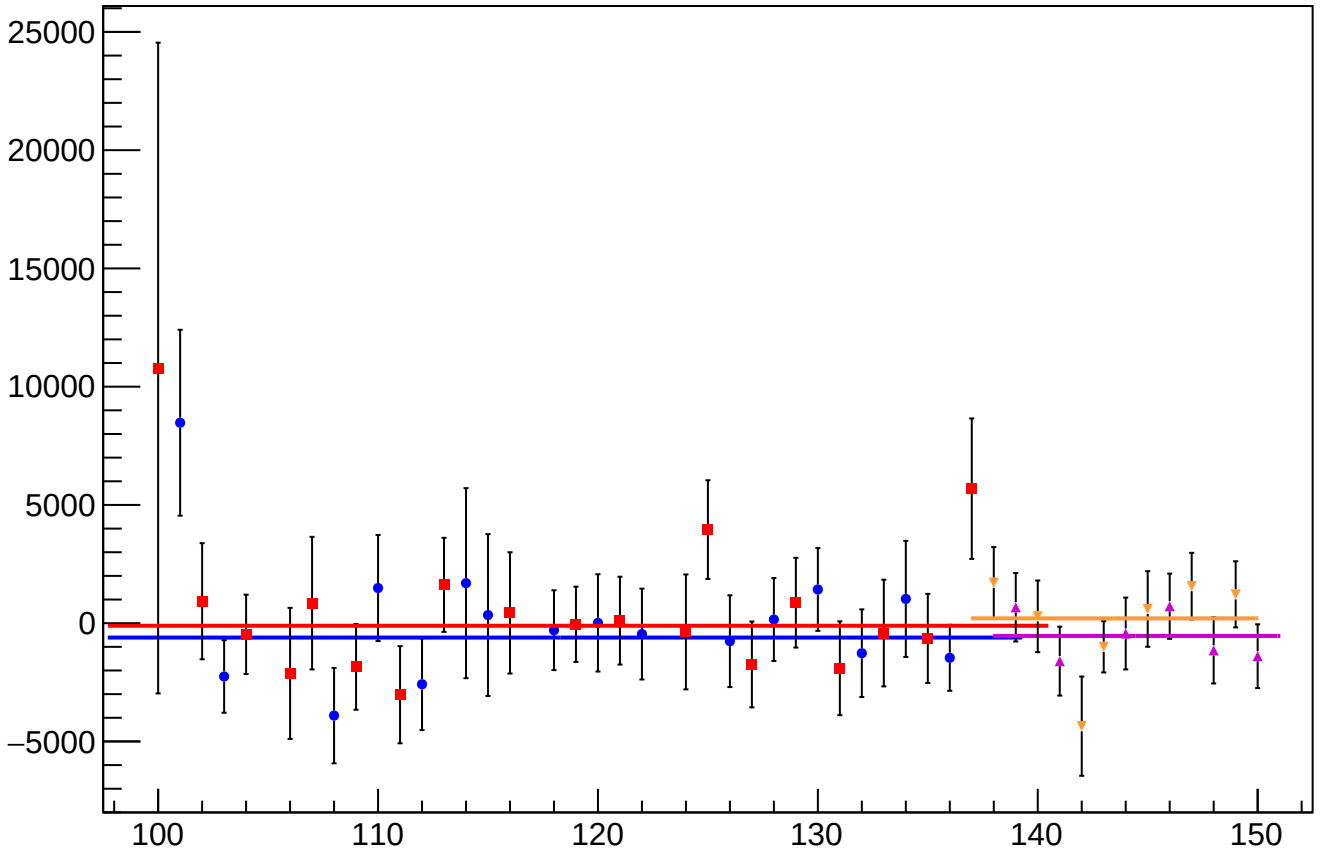
Left: 3552.373+/-0.783 $\chi^2$/NDF: 514460.0/12

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3629.796+/-0.735 $\chi^2$/NDF:482438.4/21

Out: 3254.519+/-0.659 $\chi^2$/NDF:1145861.6/25

All: 3421.716+/-0.491 $\chi^2$/NDF: 1772868.8/47




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 204.113+/-545.569 $\chi^2$/NDF:8.5/6

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -539.145+/-580.336 $\chi^2$/NDF:2.7/5

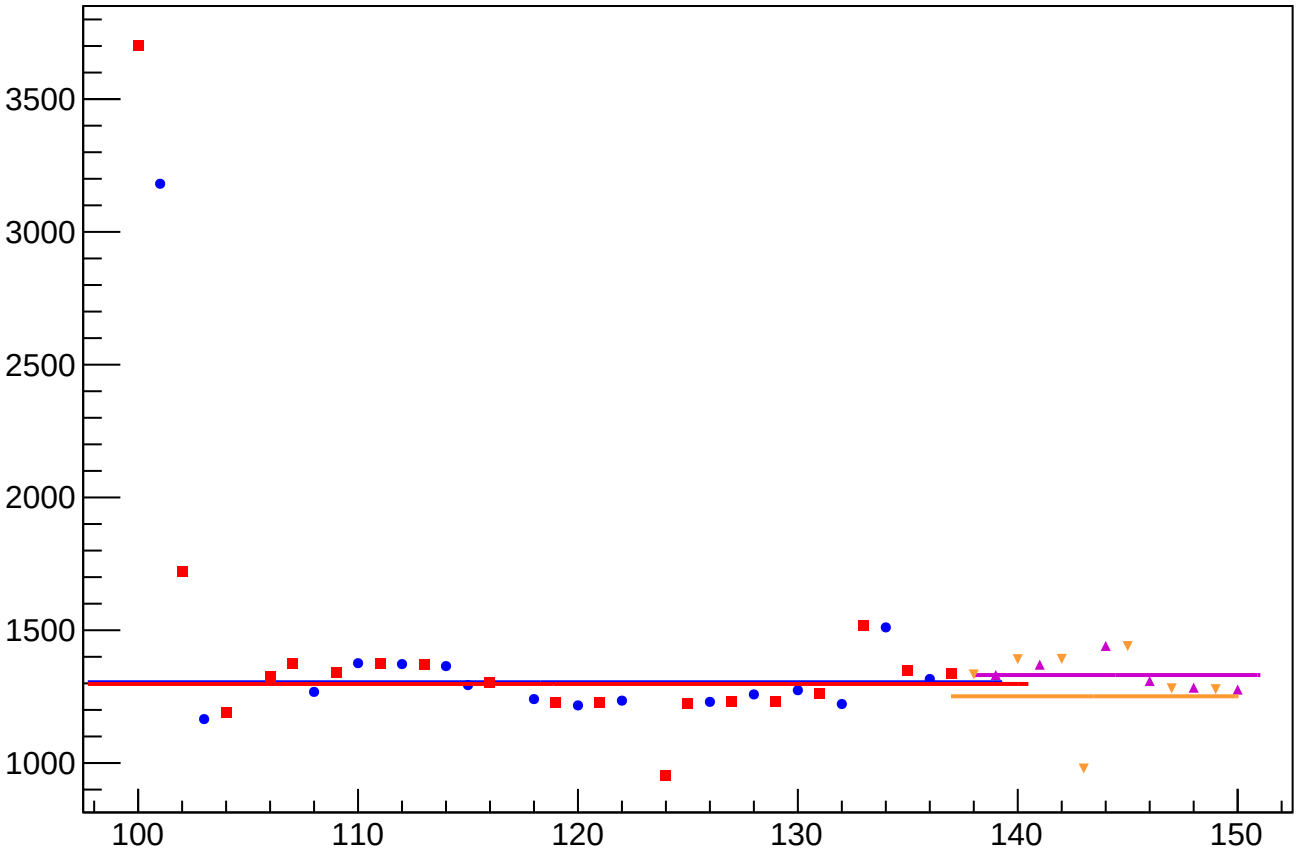
Left: -144.587+/-397.498 $\chi^2$/NDF: 12.0/12

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -578.962+/-376.250 $\chi^2$/NDF:16.8/21

Out: 29.606+/-362.708 $\chi^2$/NDF:23.5/25

All: -263.529+/-261.129 $\chi^2$/NDF: 41.7/47




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1251.267+/-0.386 $\chi^2$/NDF:187430.4/6

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1331.284+/-0.410 $\chi^2$/NDF:18010.5/5

Left: 1288.807+/-0.281 $\chi^2$/NDF: 225624.9/12

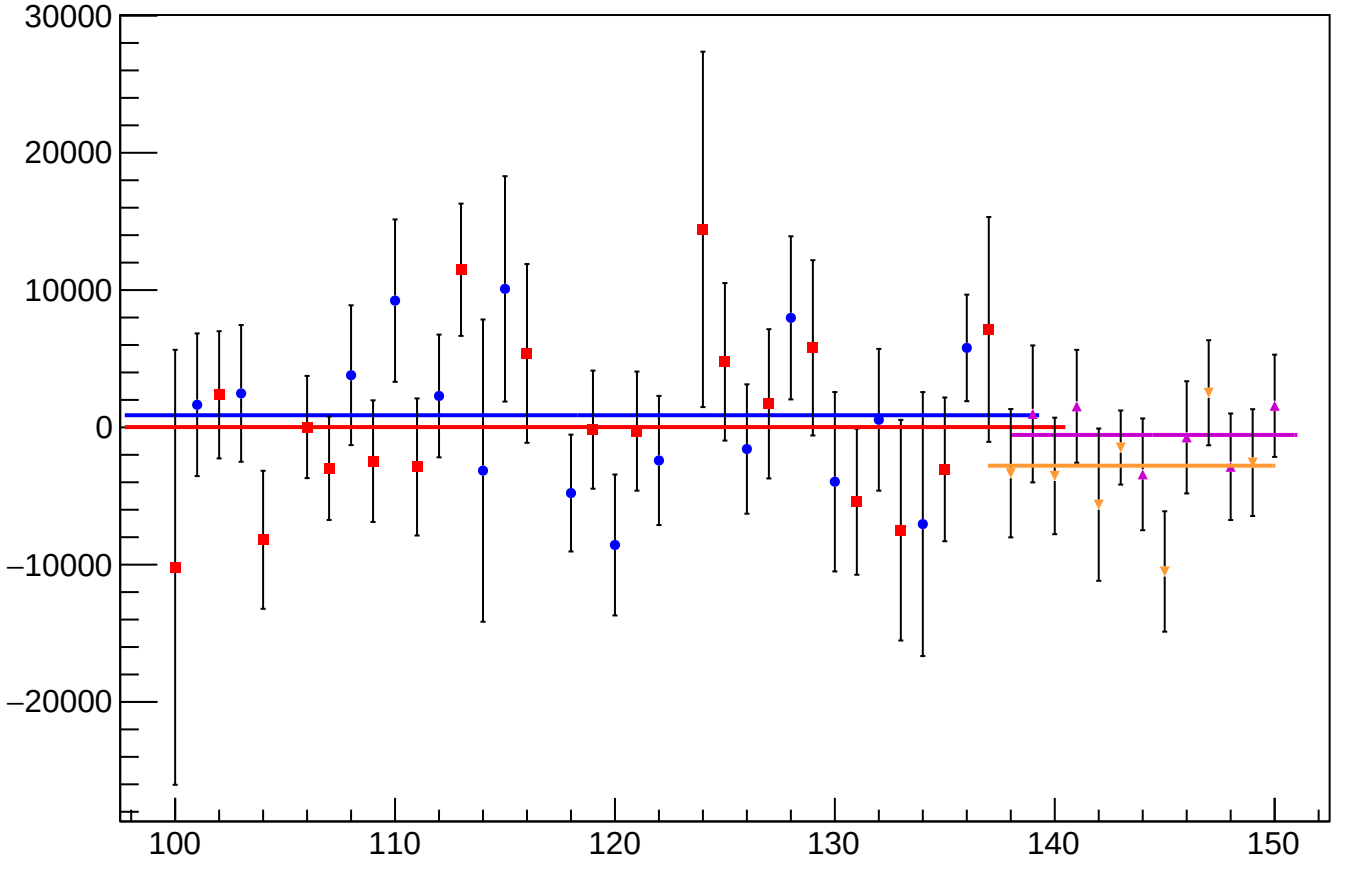
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1315.528+/-0.266 $\chi^2$/NDF:531143.4/21

Out: 1277.247+/-0.256 $\chi^2$/NDF:408650.2/25

All: 1295.678+/-0.185 $\chi^2$/NDF: 950528.4/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -2791.459+/-1478.287 $\chi^2$/NDF:5.6/6

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -550.566+/-1670.990 $\chi^2$/NDF:1.5/5

Left: -1807.621+/-1107.198 $\chi^2$/NDF: 8.1/12

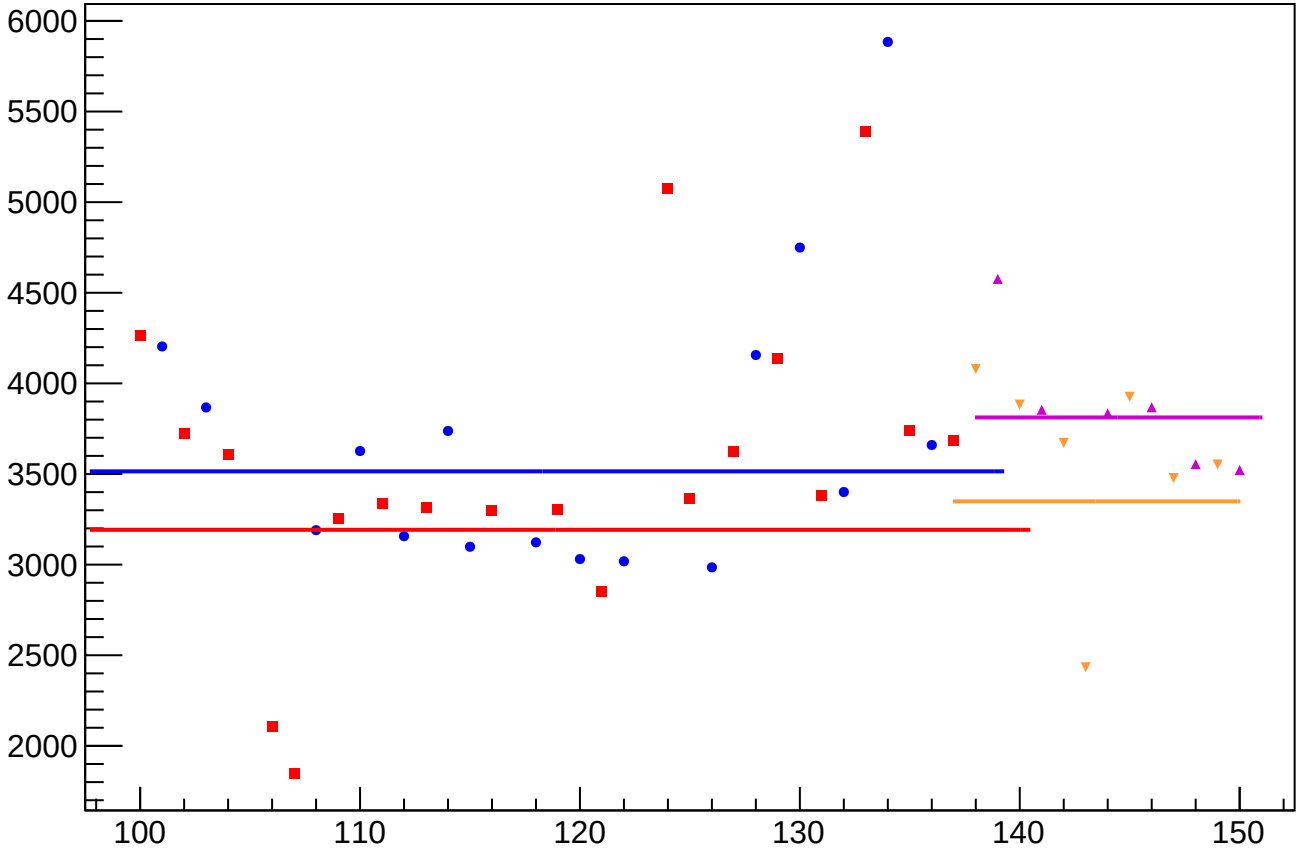
Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 329.006+/-1039.367 $\chi^2$/NDF:16.1/21

Out: -1096.331+/-931.684 $\chi^2$/NDF:24.6/25

All: -461.300+/-693.757 $\chi^2$/NDF: 41.7/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3349.090+/-1.045 $\chi^2$/NDF:359788.9/6

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 3812.121+/-1.182 $\chi^2$/NDF:68526.6/5

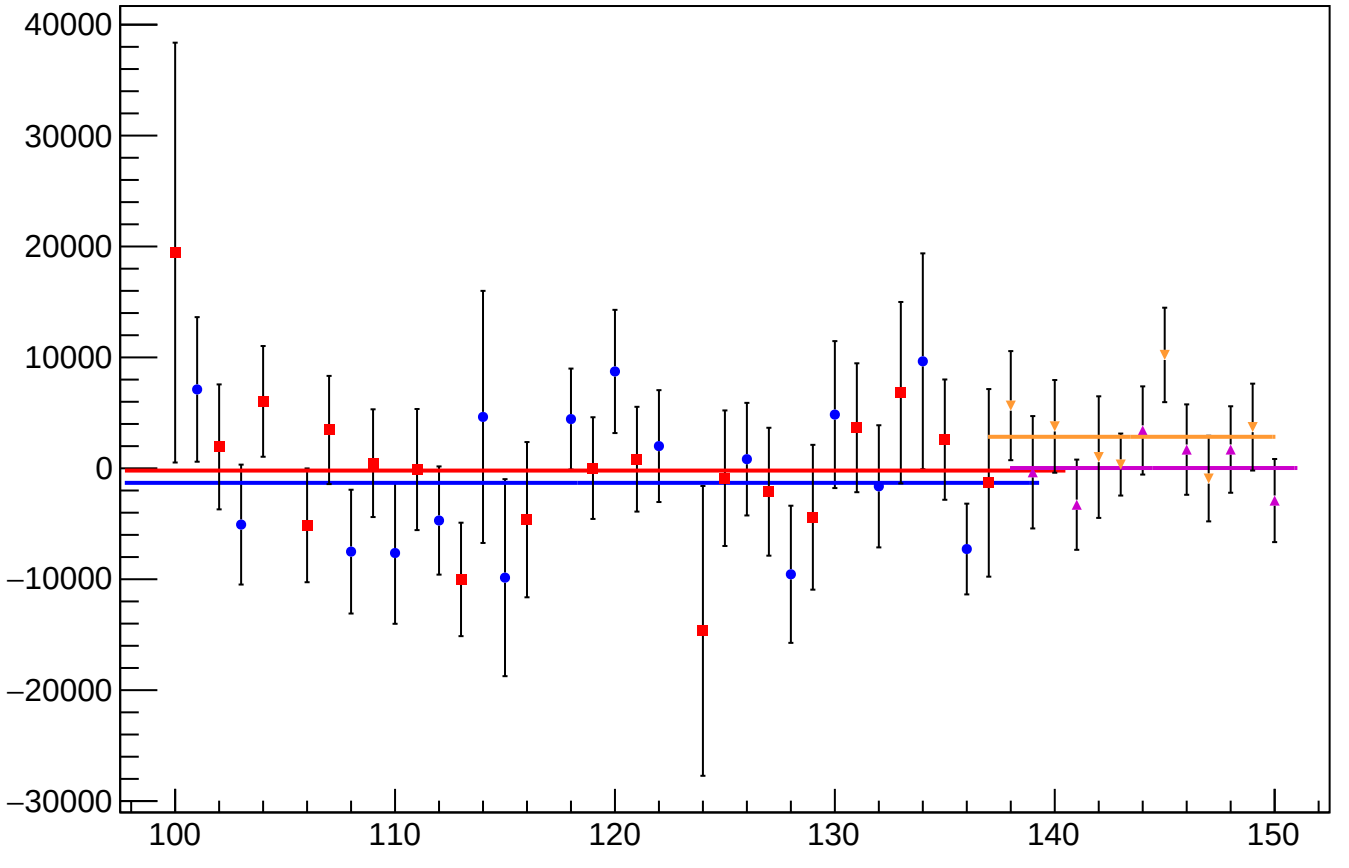
Left: 3552.378+/-0.783 $\chi^2$/NDF: 514461.5/12

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3629.792+/-0.735 $\chi^2$/NDF:482447.3/21

Out: 3254.516+/-0.659 $\chi^2$/NDF:1145866.6/25

All: 3421.713+/-0.491 $\chi^2$/NDF: 1772882.2/47




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 2842.696+/-1495.106 $\chi^2$/NDF:5.3/6

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 27.820+/-1666.900 $\chi^2$/NDF:2.4/5

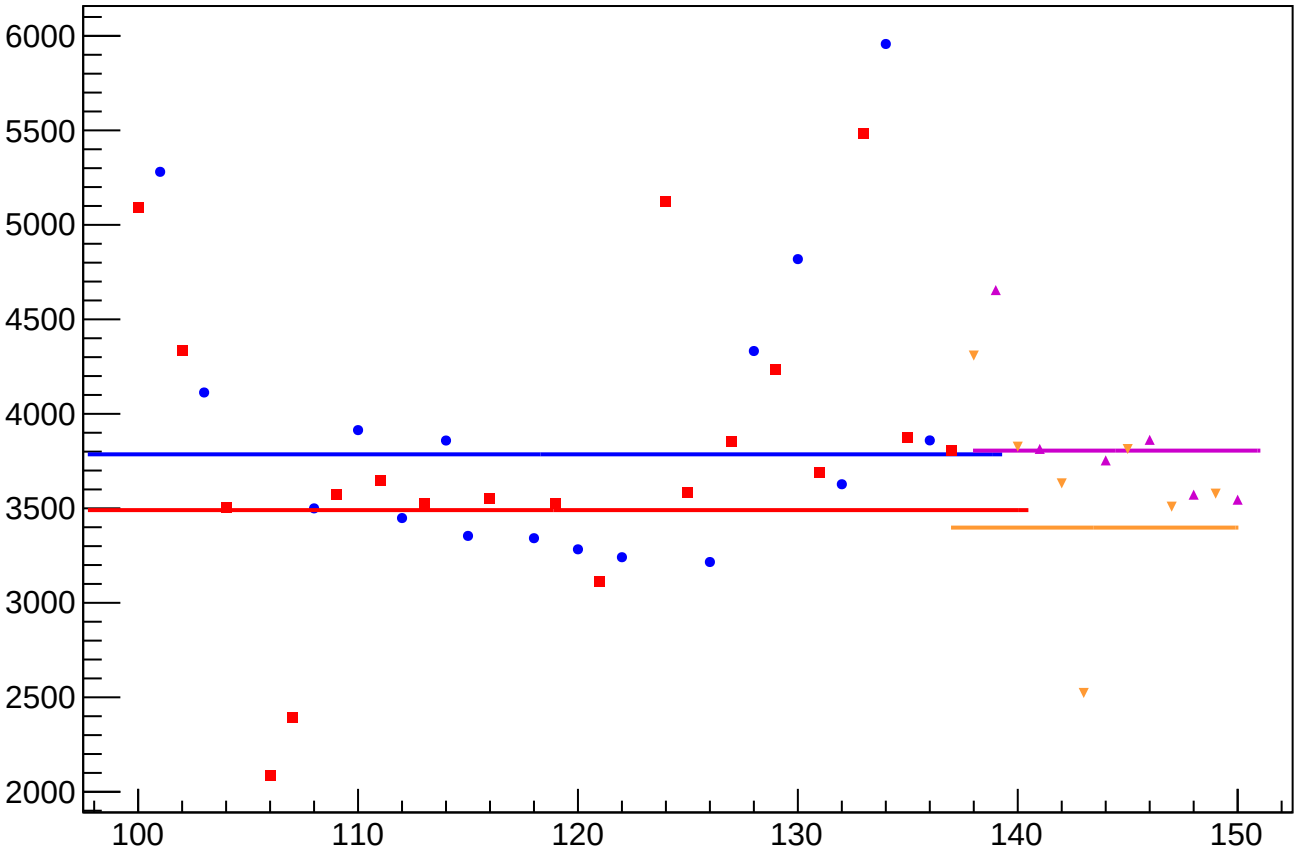
Left: 1587.743+/-1112.997 $\chi^2$/NDF: 9.2/12

Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -741.716+/-1086.051 $\chi^2$/NDF:20.3/21

Out: 1150.074+/-996.239 $\chi^2$/NDF:19.2/25

All: 285.622+/-734.149 $\chi^2$/NDF: 41.2/47




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3398.087+/-1.057 $\chi^2$/NDF:314083.3/6

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3805.447+/-1.179 $\chi^2$/NDF:73749.7/5

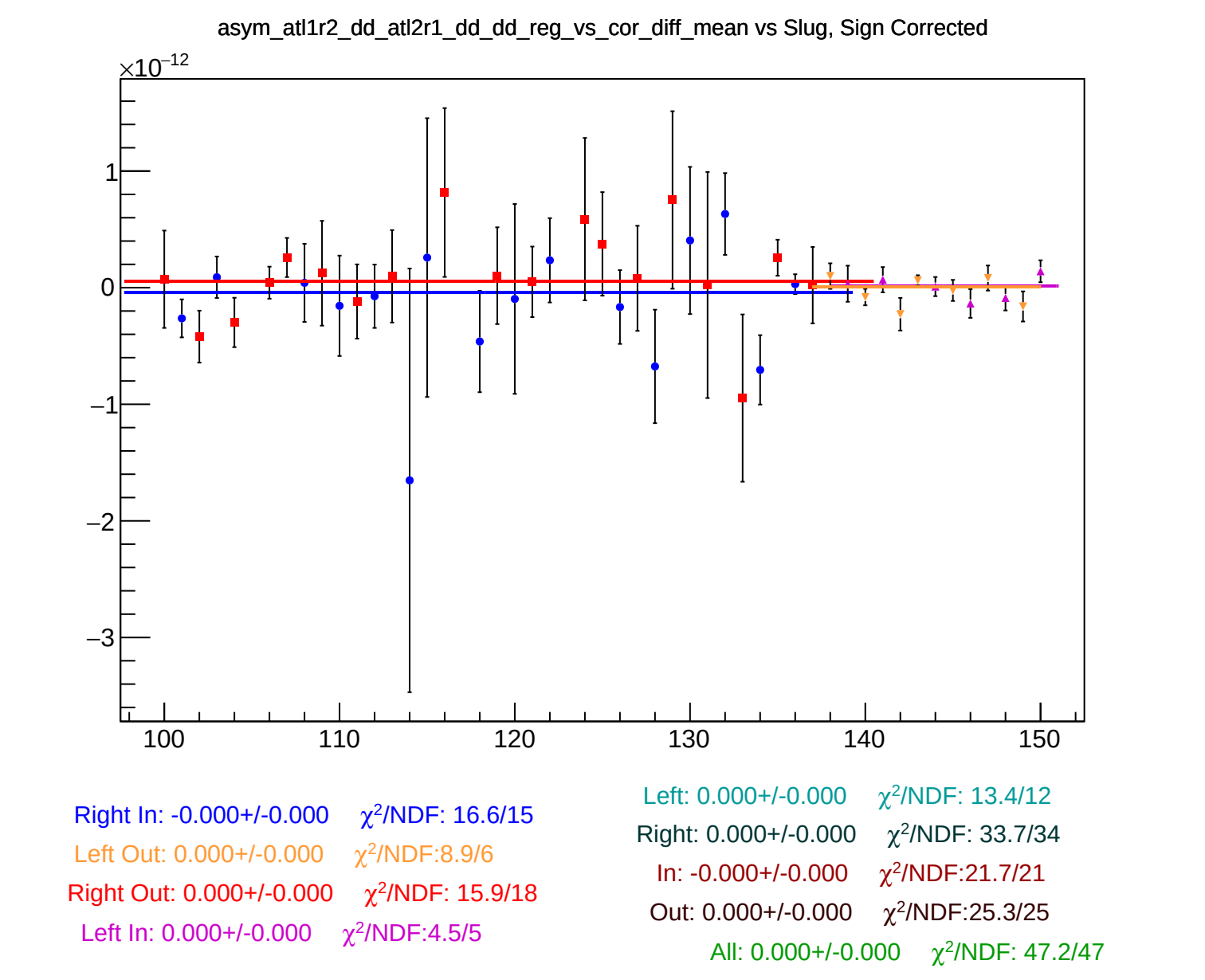
Left: 3579.700+/-0.787 $\chi^2$/NDF: 454025.7/12

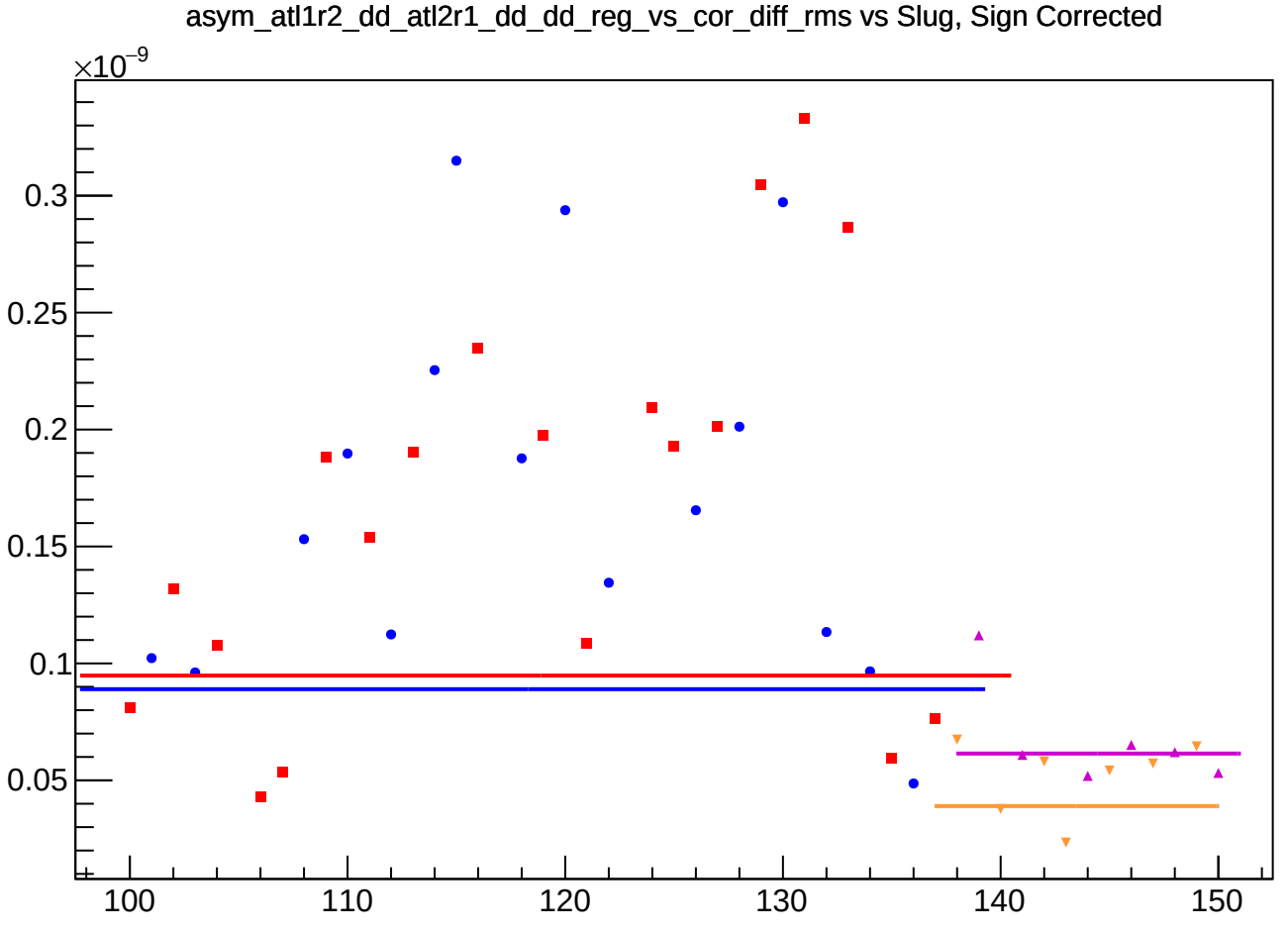
Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3794.125+/-0.768 $\chi^2$/NDF:456902.9/21

Out: 3450.158+/-0.699 $\chi^2$/NDF:905109.0/25

All: 3606.024+/-0.517 $\chi^2$/NDF: 1471720.6/47


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 16.6/15
Left Out: 0.000+/-0.000 χ²/NDF:8.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 15.9/18
Left In: 0.000+/-0.000 χ²/NDF:4.5/5
Left: 0.000+/-0.000 χ²/NDF: 13.4/12
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: -0.000+/-0.000 χ²/NDF:21.7/21
Out: 0.000+/-0.000 χ²/NDF:25.3/25
All: 0.000+/-0.000 χ²/NDF: 47.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:618005.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:257986.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1244422.8/12

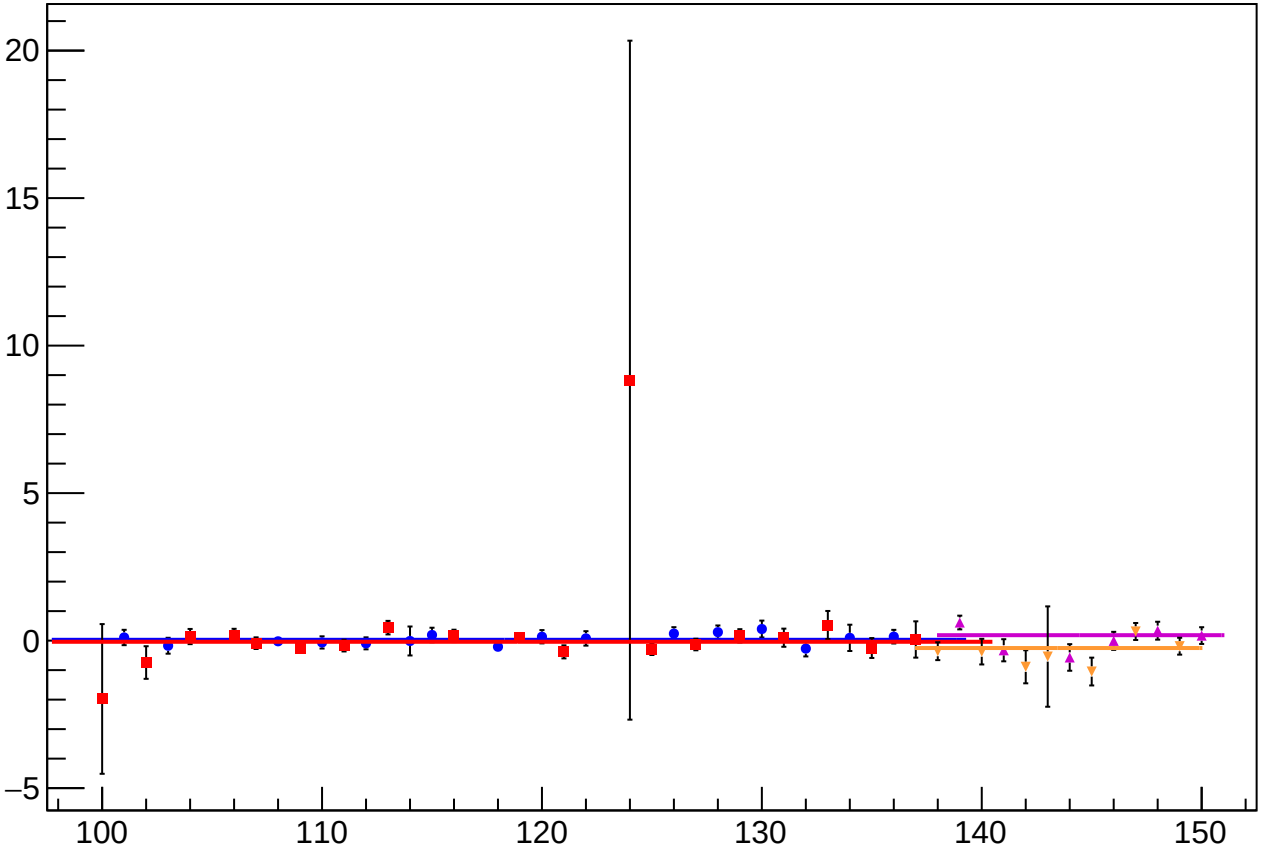
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2003084.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3602876.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6105919.4/47

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

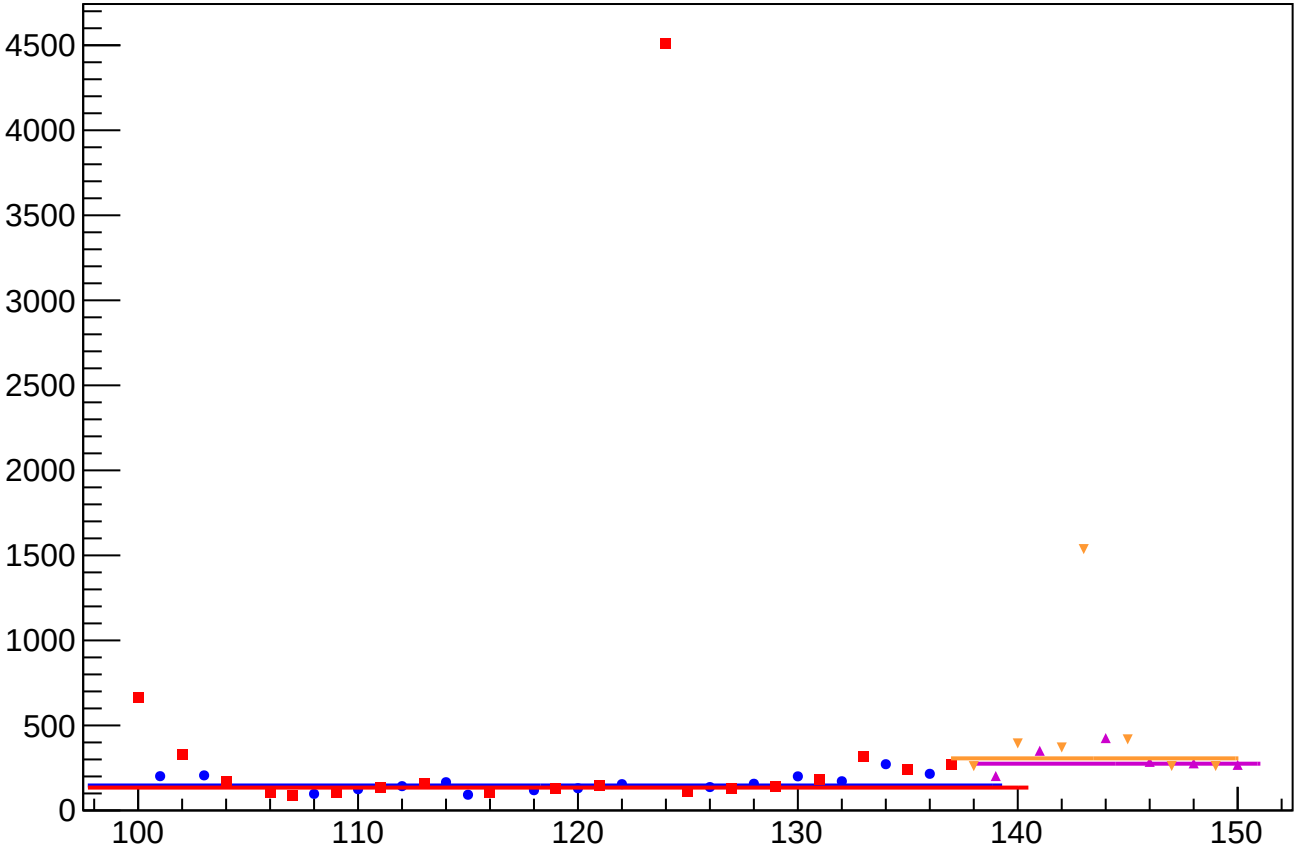
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

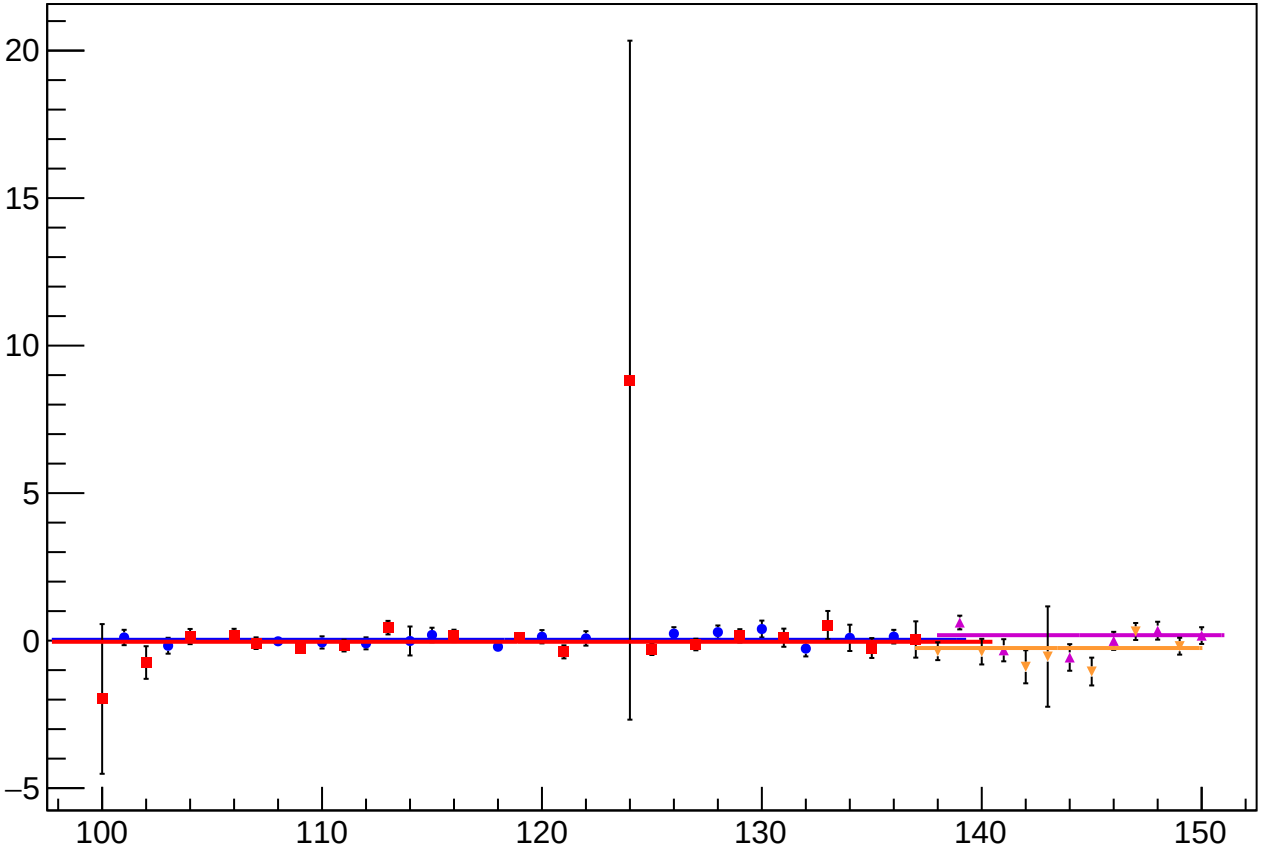
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

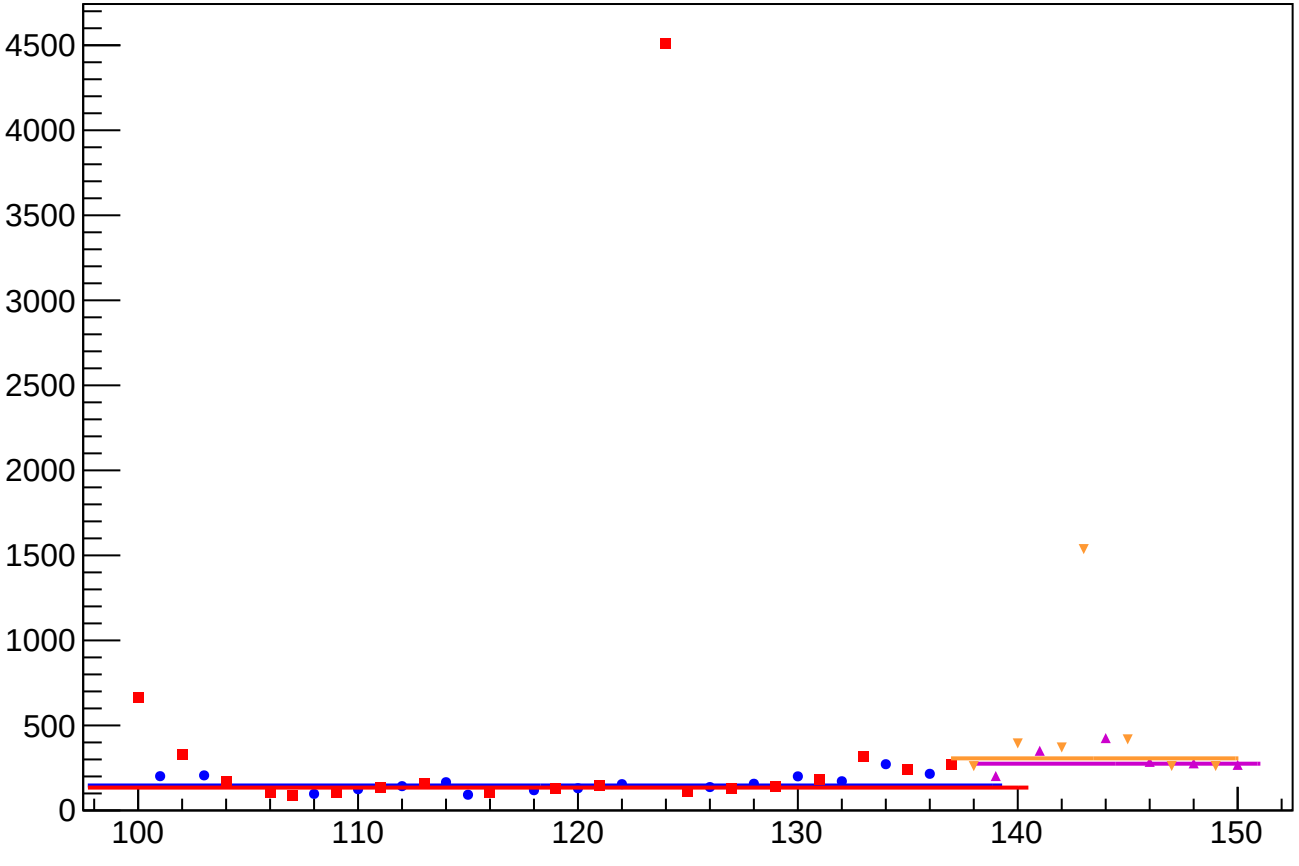
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 306.381+/-0.101 $\chi^2$/NDF:1411618.1/6

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 274.992+/-0.088 $\chi^2$/NDF:503505.9/5

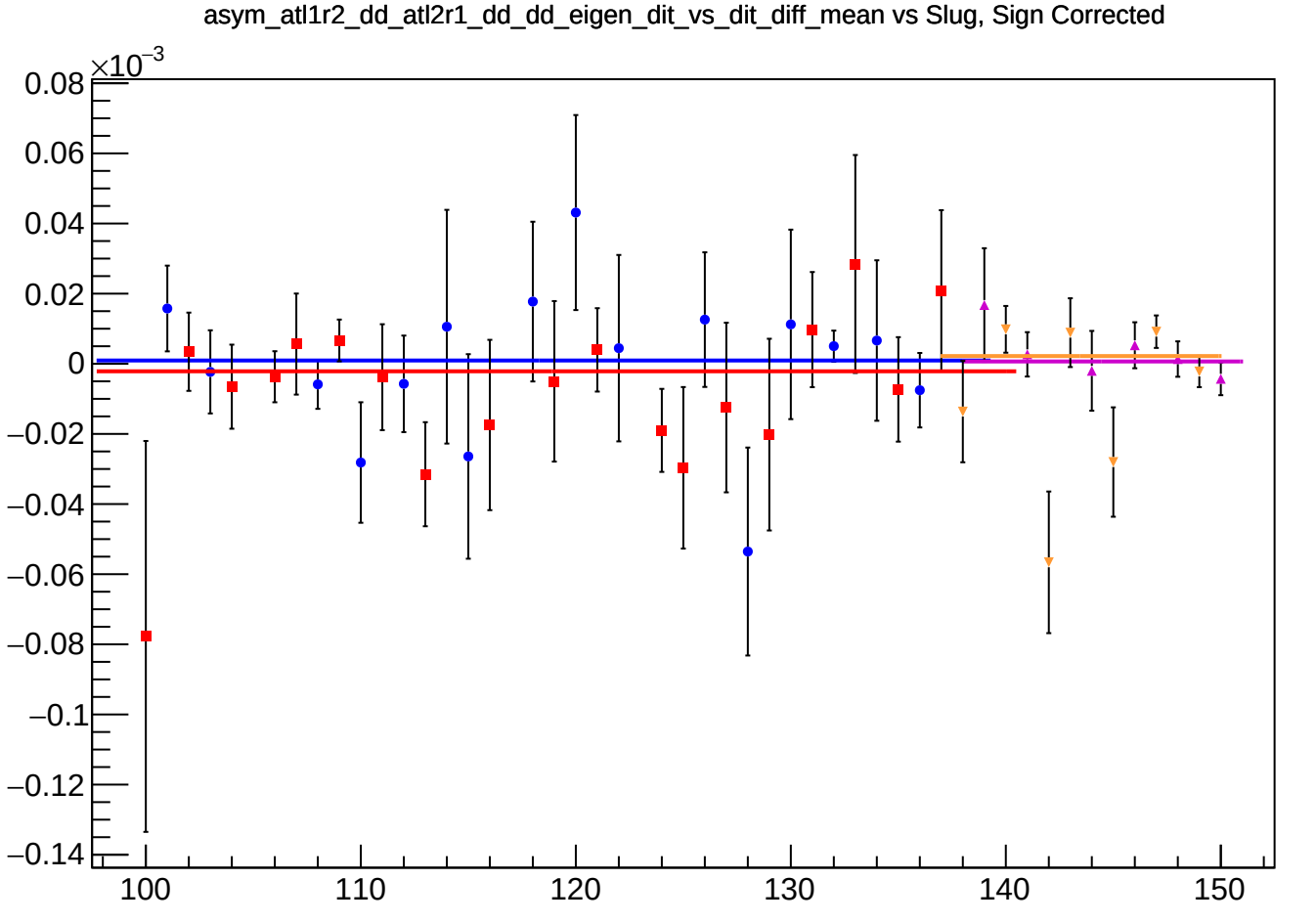
Left: 288.473+/-0.067 $\chi^2$/NDF: 1969707.9/12

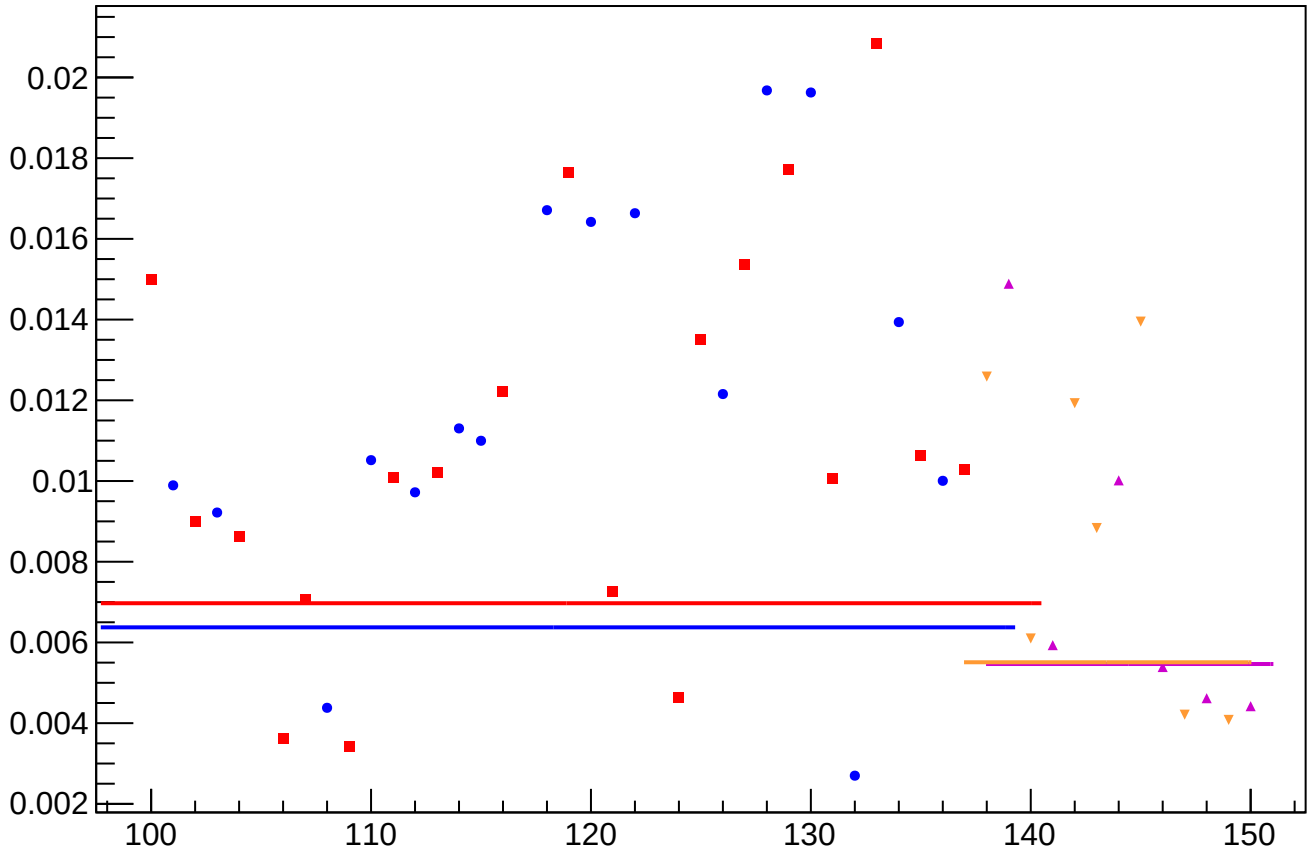
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246465.4/21

Out: 156.362+/-0.036 $\chi^2$/NDF:5521893.5/25

All: 162.775+/-0.026 $\chi^2$/NDF: 8832629.2/47


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 14.9/15
Left Out: 0.000+/-0.000 χ²/NDF:18.4/6
Right Out: -0.000+/-0.000 χ²/NDF: 16.0/18
Left In: 0.000+/-0.000 χ²/NDF:2.8/5
Left: 0.000+/-0.000 χ²/NDF: 21.4/12
Right: -0.000+/-0.000 χ²/NDF: 31.5/34
In: 0.000+/-0.000 χ²/NDF:17.6/21
Out: 0.000+/-0.000 χ²/NDF:35.6/25
All: 0.000+/-0.000 χ²/NDF: 53.3/47




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1875056.5/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1164361.1/5

Left: 0.005+/-0.000 $\chi^2$/NDF: 3039685.8/12

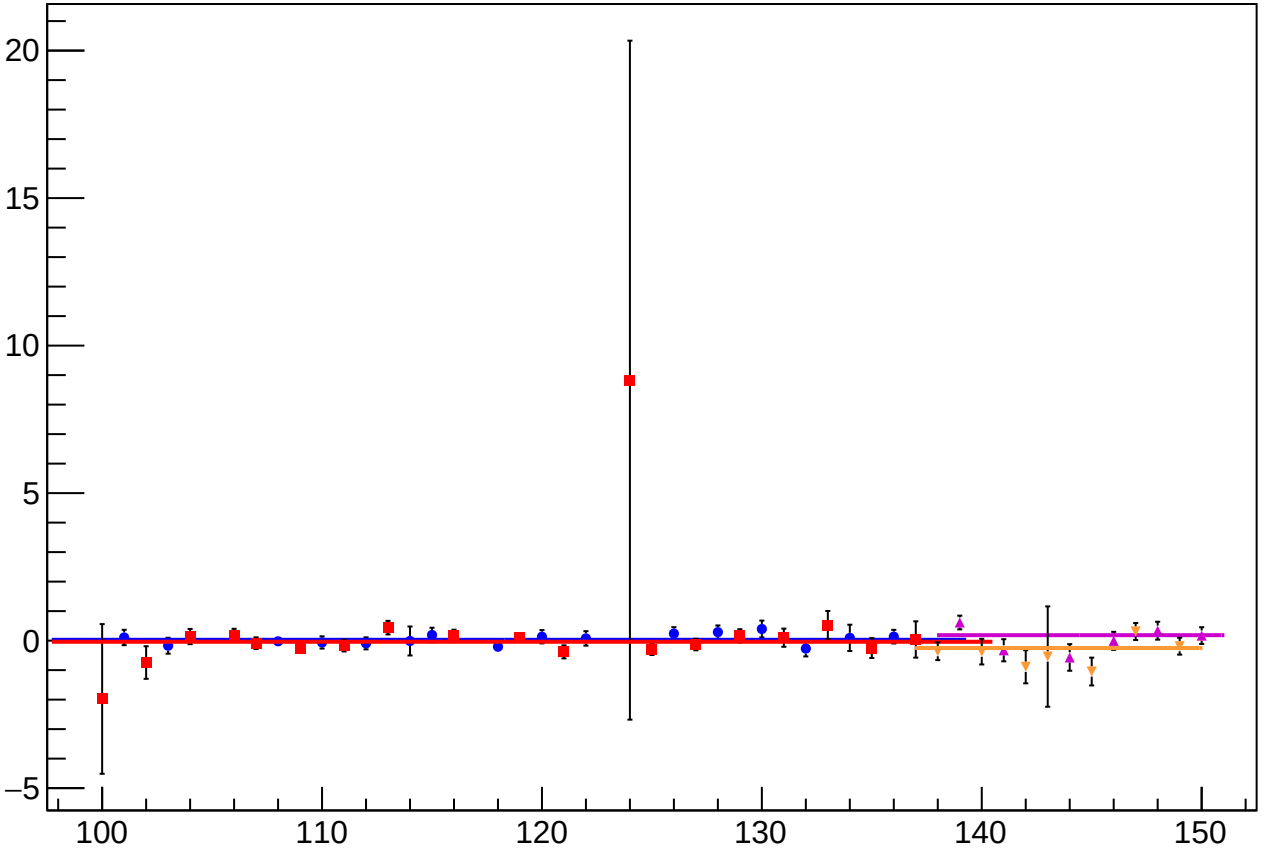
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:5910819.3/21

Out: 0.006+/-0.000 $\chi^2$/NDF:5549528.4/25

All: 0.006+/-0.000 $\chi^2$/NDF: 11480300.2/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

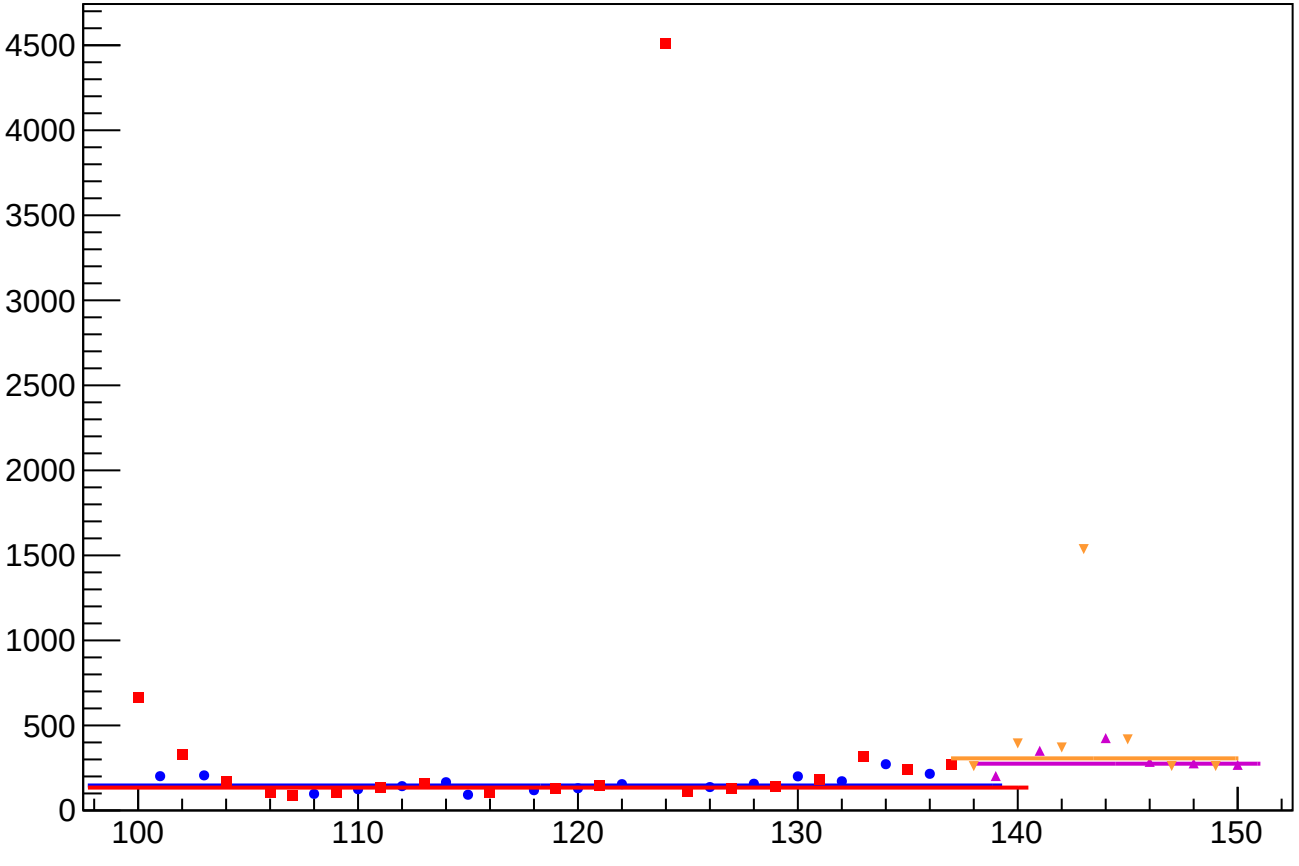
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

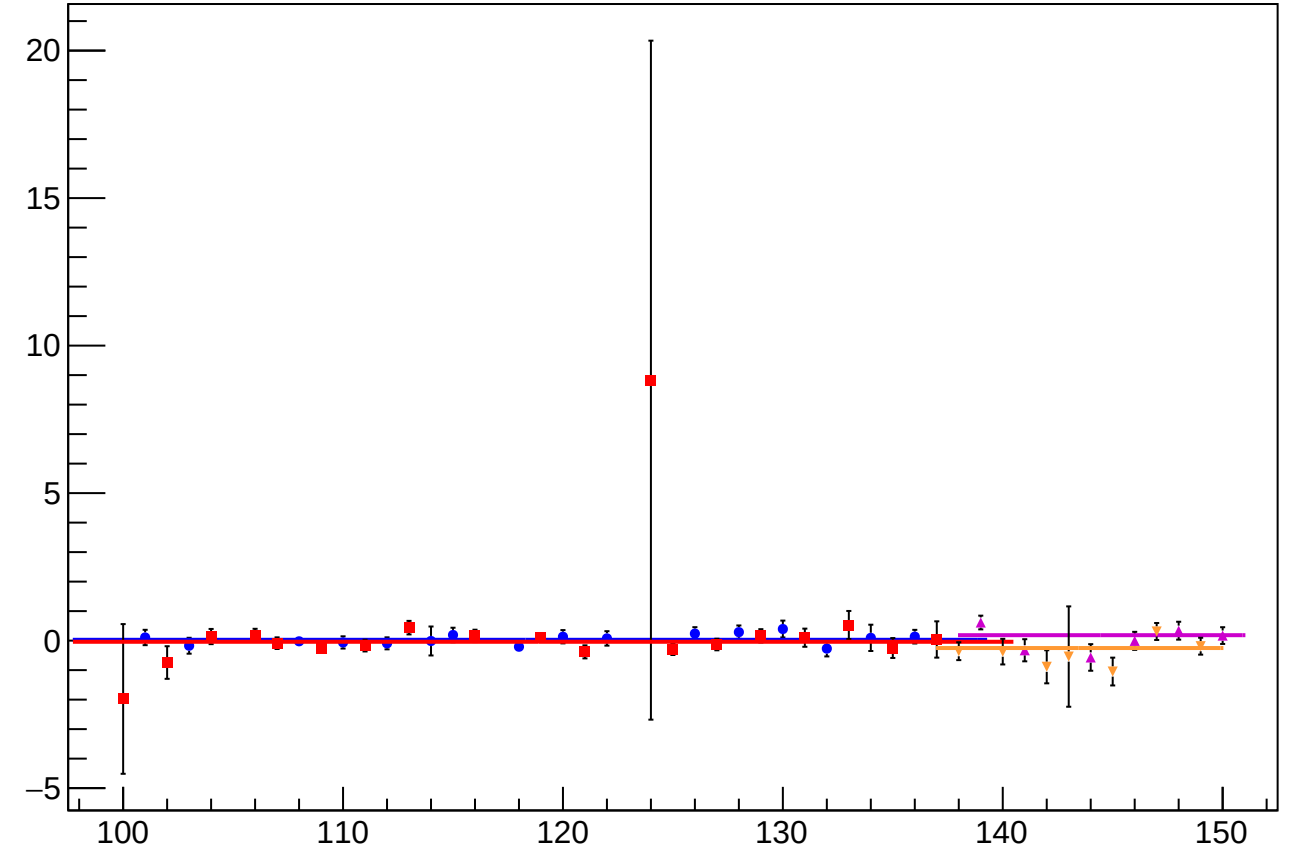
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.251+/-0.144 $\chi^2$/NDF:8.2/6

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.184+/-0.125 $\chi^2$/NDF:8.7/5

Left: -0.003+/-0.094 $\chi^2$/NDF: 22.2/12

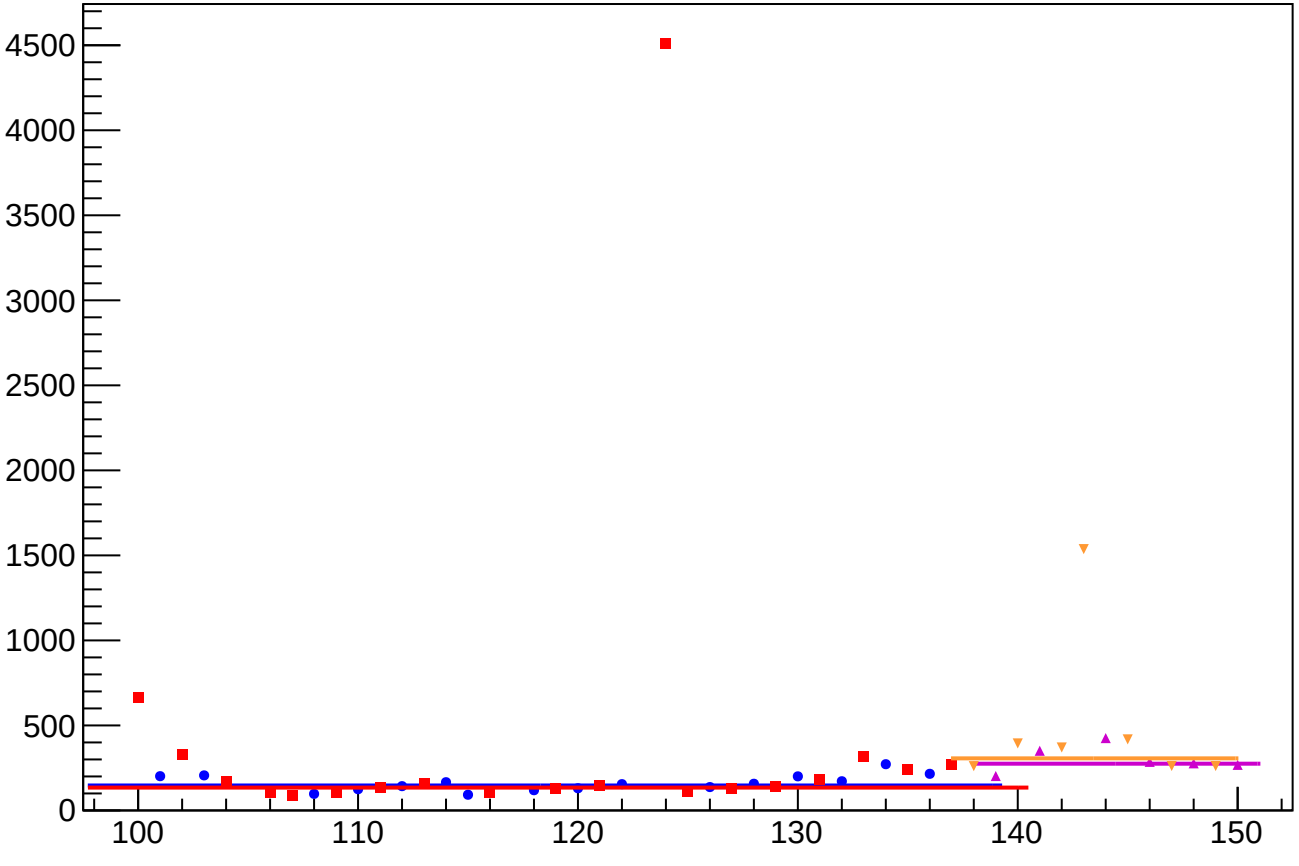
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.056+/-0.052 $\chi^2$/NDF:19.5/21

Out: -0.066+/-0.051 $\chi^2$/NDF:30.1/25

All: -0.007+/-0.037 $\chi^2$/NDF: 52.4/47

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 306.384+/-0.101 $\chi^2$/NDF:1411616.6/6

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 274.996+/-0.088 $\chi^2$/NDF:503488.5/5

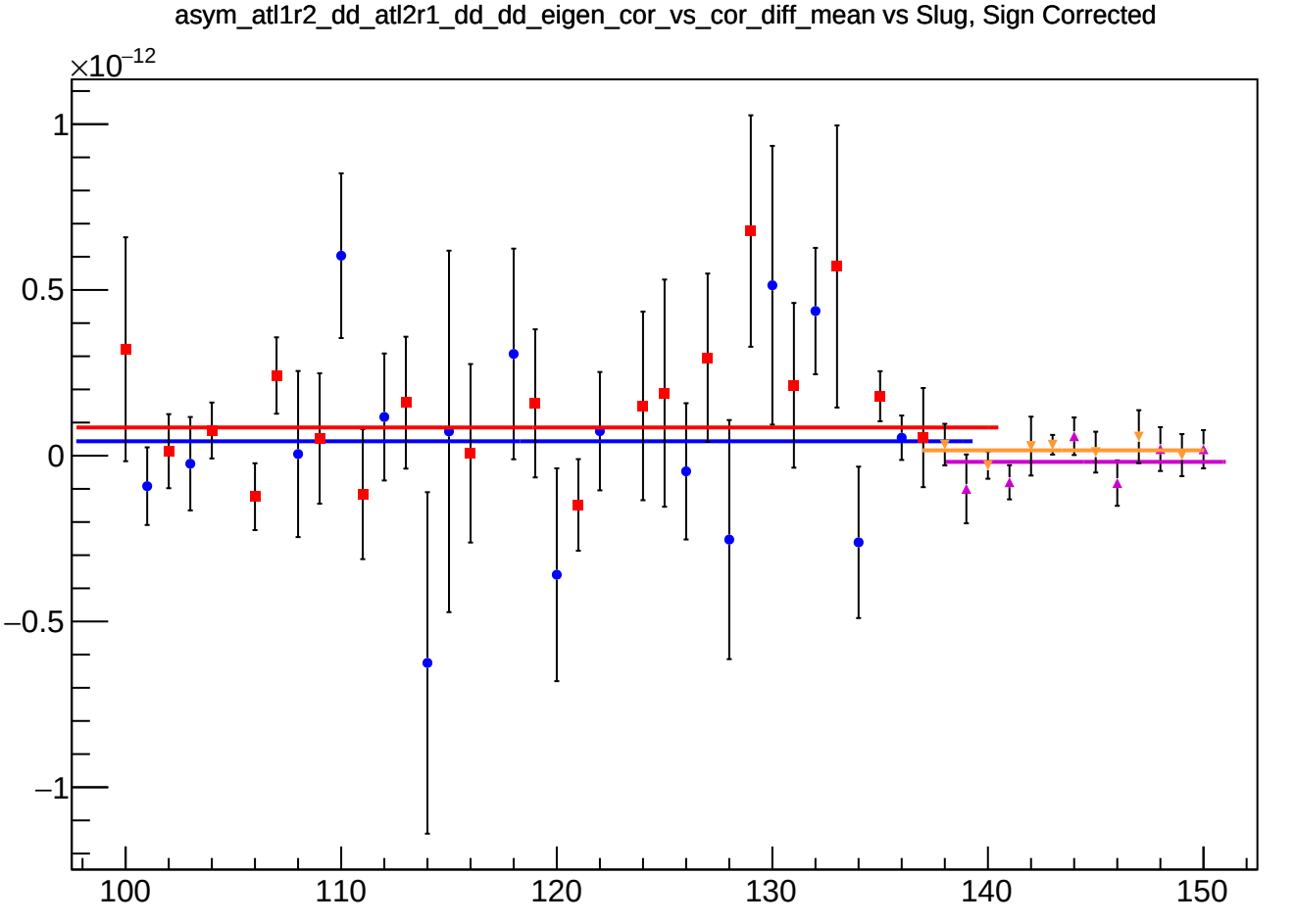
Left: 288.477+/-0.067 $\chi^2$/NDF: 1969685.4/12

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 169.486+/-0.037 $\chi^2$/NDF:3246460.9/21

Out: 156.363+/-0.036 $\chi^2$/NDF:5521828.6/25

All: 162.776+/-0.026 $\chi^2$/NDF: 8832546.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.6/5

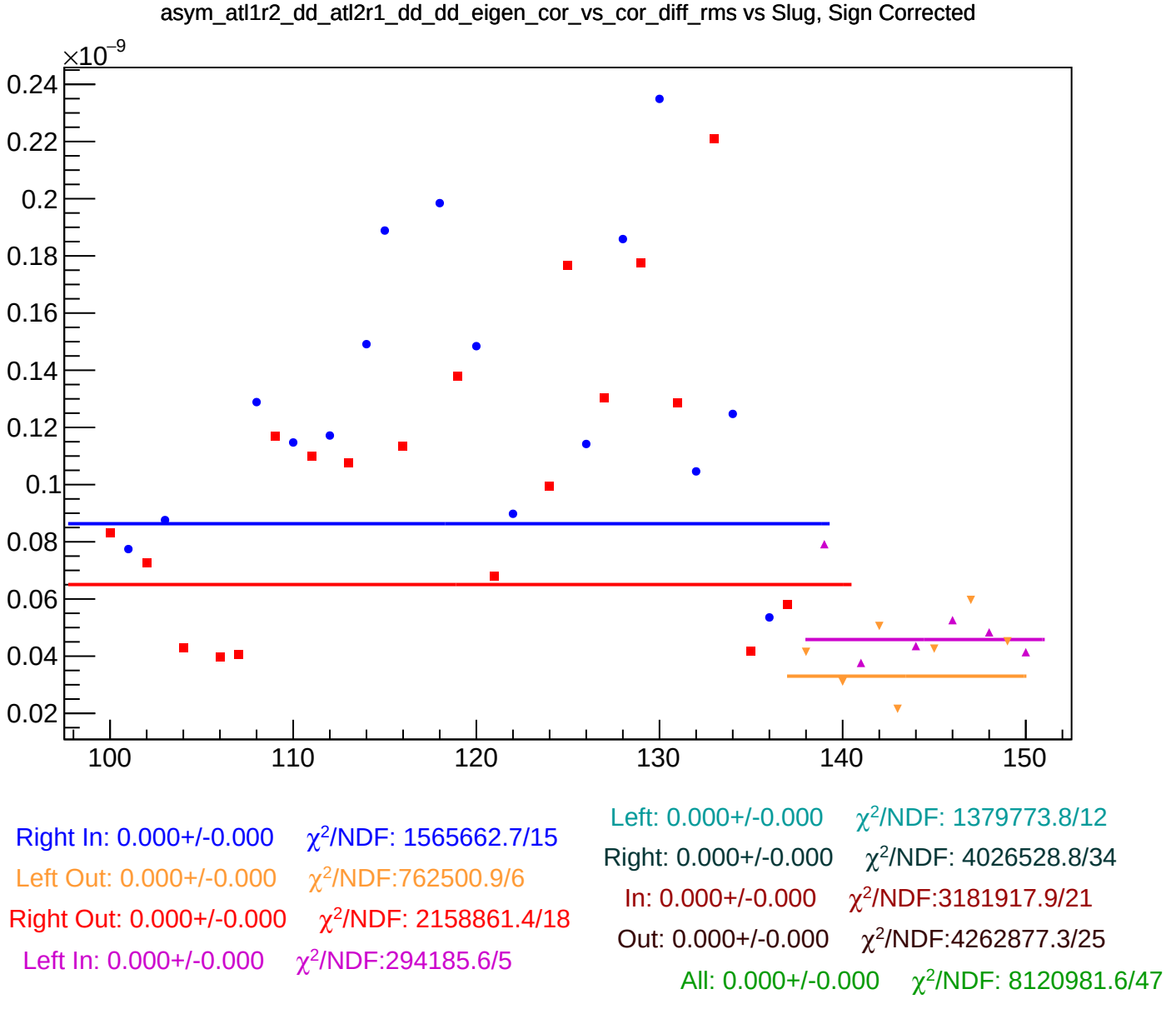
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.7/12

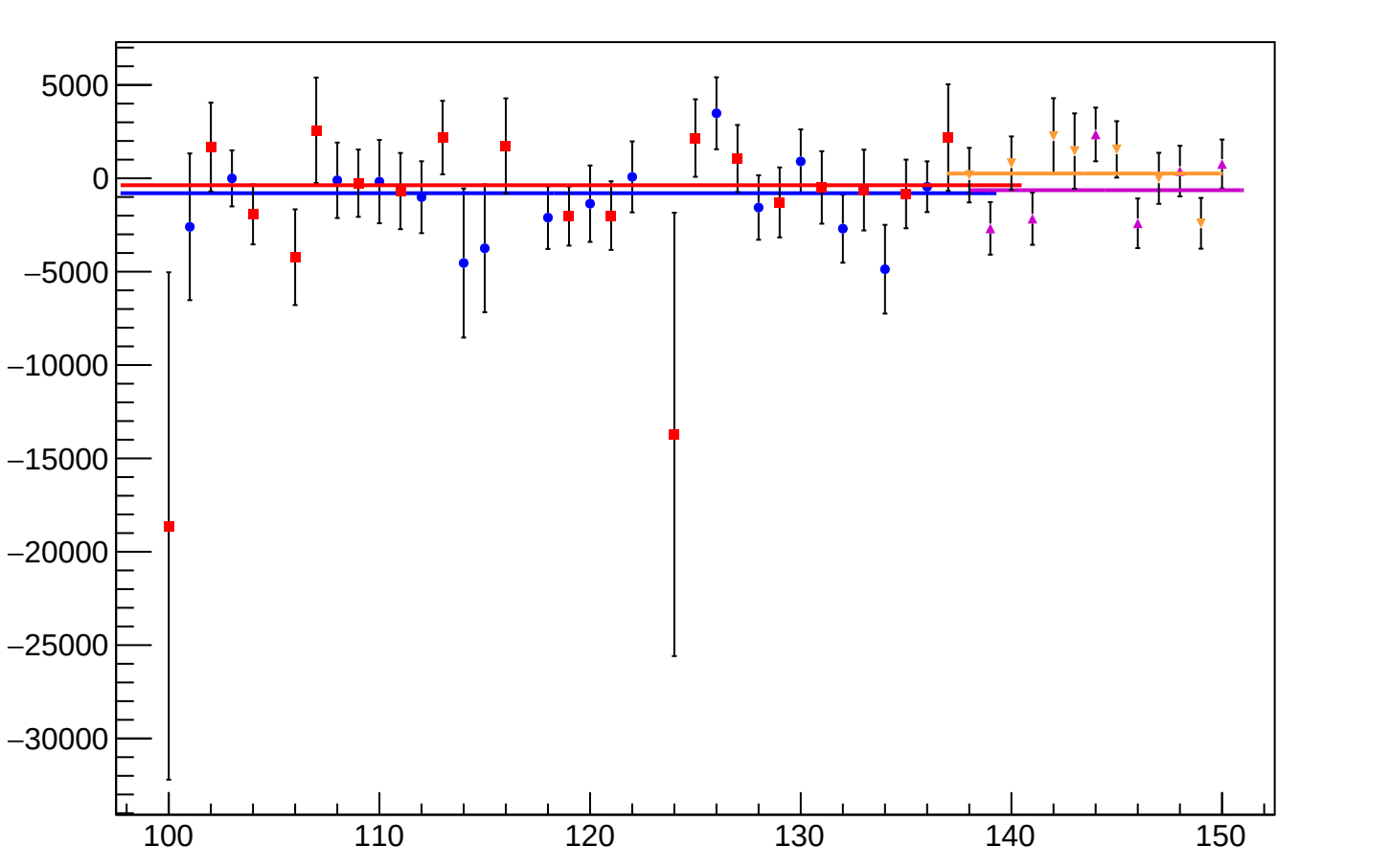
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 50.9/47


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1565662.7/15
Left Out: 0.000+/-0.000 χ²/NDF:762500.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 2158861.4/18
Left In: 0.000+/-0.000 χ²/NDF:294185.6/5
Left: 0.000+/-0.000 χ²/NDF: 1379773.8/12
Right: 0.000+/-0.000 χ²/NDF: 4026528.8/34
In: 0.000+/-0.000 χ²/NDF:3181917.9/21
Out: 0.000+/-0.000 χ²/NDF:4262877.3/25
All: 0.000+/-0.000 χ²/NDF: 8120981.6/47




Right In: -797.285+/-487.453 $\chi^2$/NDF: 13.4/15

Left Out: 256.028+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -370.010+/-485.826 $\chi^2$/NDF: 15.6/18

Left In: -635.802+/-559.690 $\chi^2$/NDF:11.1/5

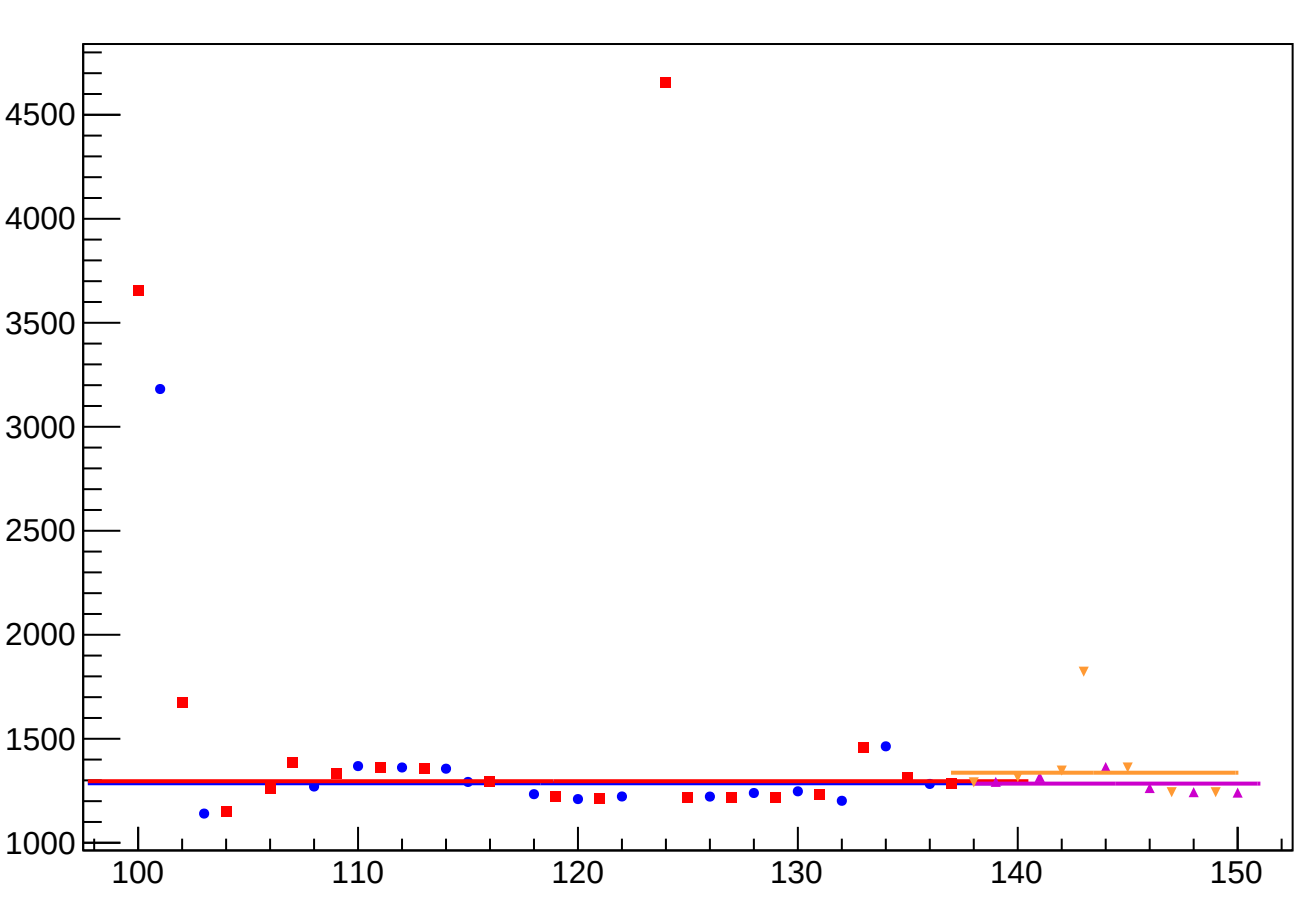
Left: -206.832+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -582.933+/-344.105 $\chi^2$/NDF: 29.4/34

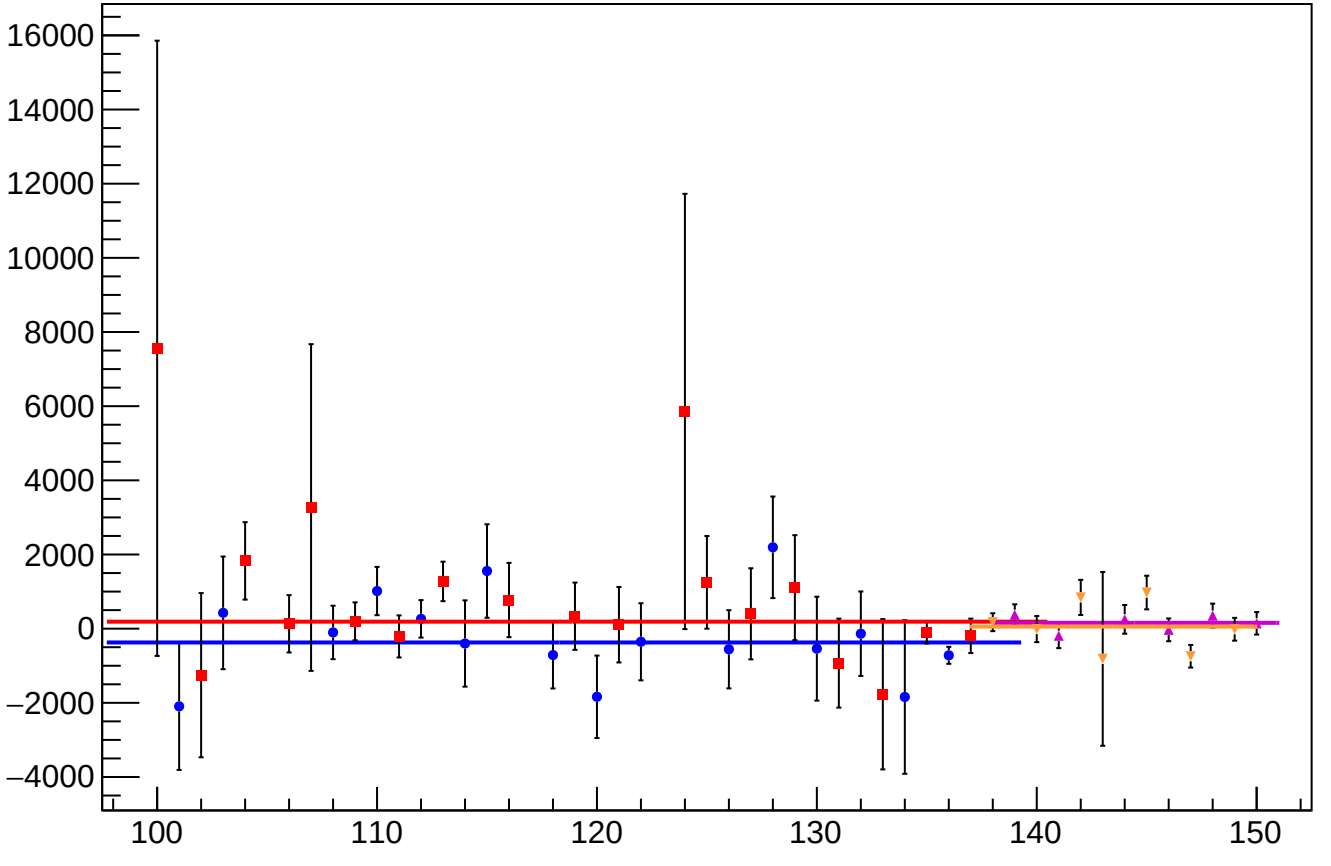
In: -727.630+/-367.586 $\chi^2$/NDF:24.6/21

Out: -112.599+/-372.798 $\chi^2$/NDF:22.4/25

All: -424.444+/-261.746 $\chi^2$/NDF: 48.3/47


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected
4500
4000
3500
3000
2500
2000
1500
1000
100
110
120
130
140
150
Right In: 1286.097+/-0.345 χ²/NDF: 518126.9/15
Left Out: 1336.831+/-0.411 χ²/NDF:137890.3/6
Right Out: 1295.943+/-0.344 χ²/NDF: 328069.9/18
Left In: 1284.409+/-0.396 χ²/NDF:11826.9/5
Left: 1309.624+/-0.285 χ²/NDF: 158156.5/12
Right: 1291.036+/-0.243 χ²/NDF: 846606.2/34
In: 1285.369+/-0.260 χ²/NDF:529964.2/21
Out: 1312.755+/-0.264 χ²/NDF:471785.2/25
All: 1298.869+/-0.185 χ²/NDF: 1007221.8/47

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -372.325+/-168.204 $\chi^2$/NDF: 18.2/15

Left Out: 55.253+/-133.653 $\chi^2$/NDF:14.2/6

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 157.276+/-130.070 $\chi^2$/NDF:2.5/5

Left: 107.650+/-93.214 $\chi^2$/NDF: 17.0/12

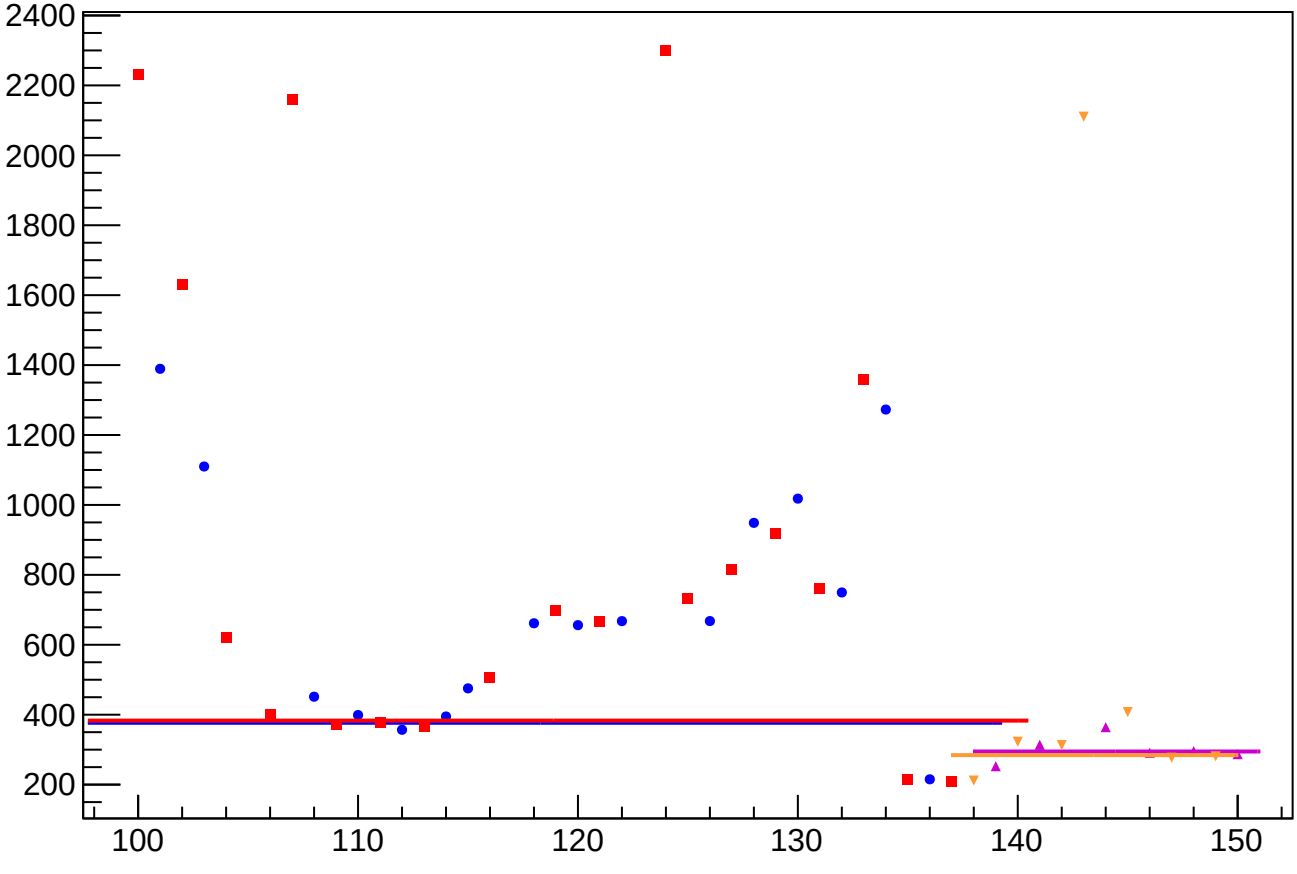
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: -40.905+/-102.894 $\chi^2$/NDF:26.8/21

Out: 106.480+/-104.969 $\chi^2$/NDF:29.2/25

All: 31.317+/-73.480 $\chi^2$/NDF: 57.0/47

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 376.893+/-0.119 $\chi^2$/NDF: 4190194.7/15

Left Out: 284.379+/-0.095 $\chi^2$/NDF:1575530.1/6

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 294.720+/-0.092 $\chi^2$/NDF:117258.5/5

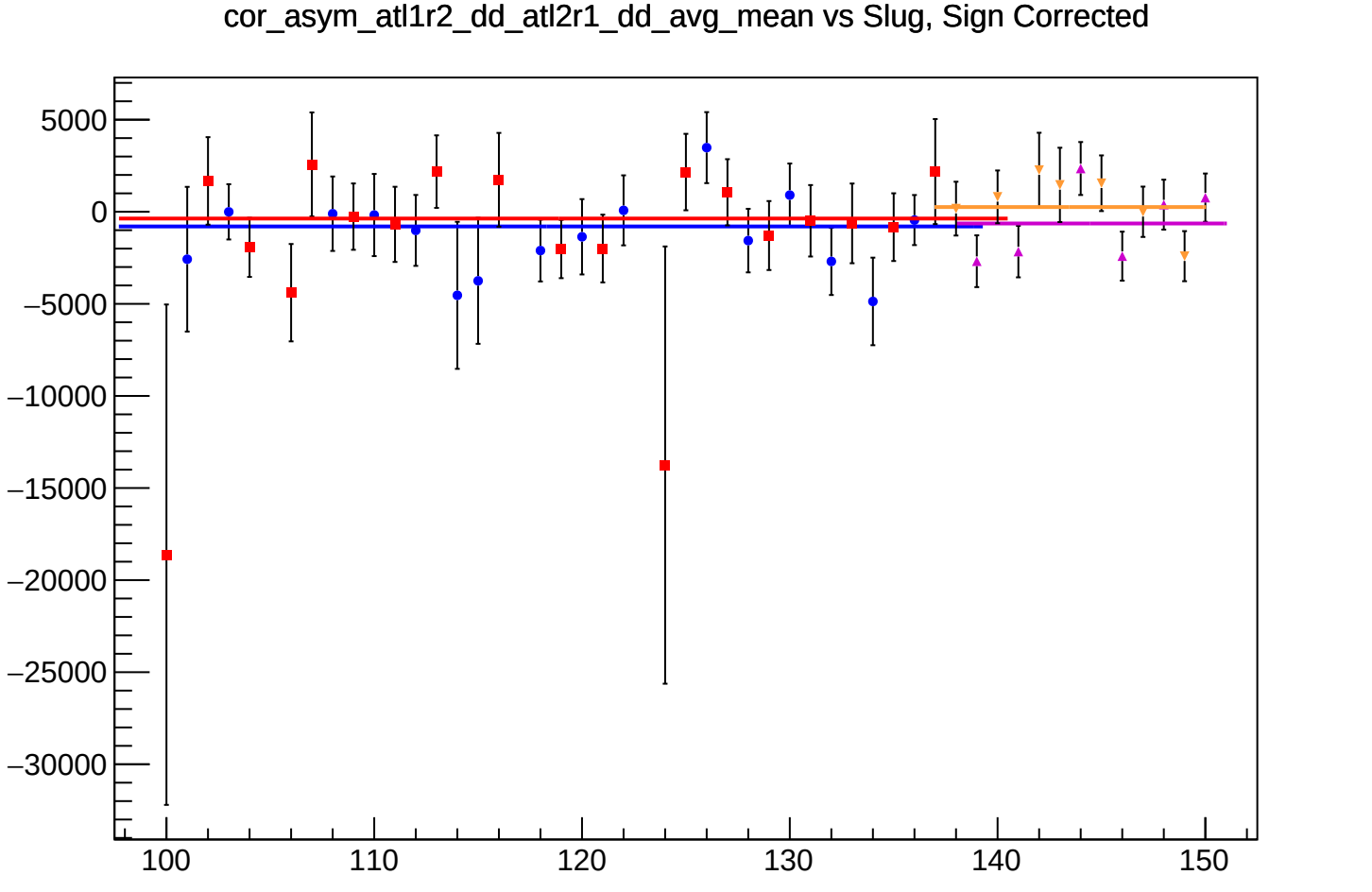
Left: 289.690+/-0.066 $\chi^2$/NDF: 1698938.1/12

Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

In: 325.470+/-0.073 $\chi^2$/NDF:4606157.7/21

Out: 322.196+/-0.074 $\chi^2$/NDF:6047537.6/25

All: 323.866+/-0.052 $\chi^2$/NDF: 10654687.2/47




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: 256.045+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -635.849+/-559.690 $\chi^2$/NDF:11.1/5

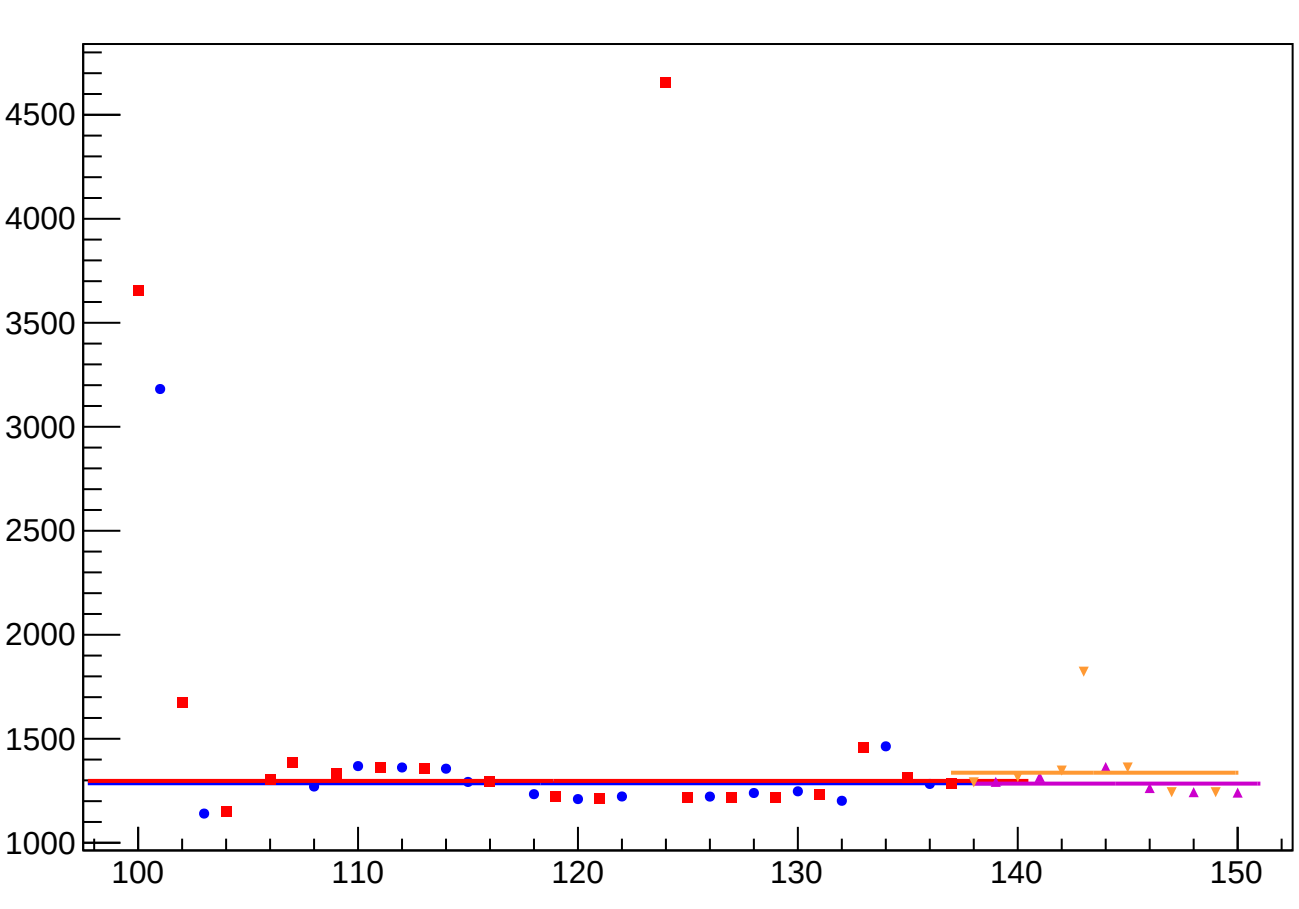
Left: -206.849+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -727.422+/-367.586 $\chi^2$/NDF:24.6/21

Out: -110.775+/-373.034 $\chi^2$/NDF:22.4/25

All: -423.634+/-261.827 $\chi^2$/NDF: 48.4/47




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1336.831+/-0.411 $\chi^2$/NDF:137890.3/6

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1284.409+/-0.396 $\chi^2$/NDF:11826.9/5

Left: 1309.624+/-0.285 $\chi^2$/NDF: 158156.5/12

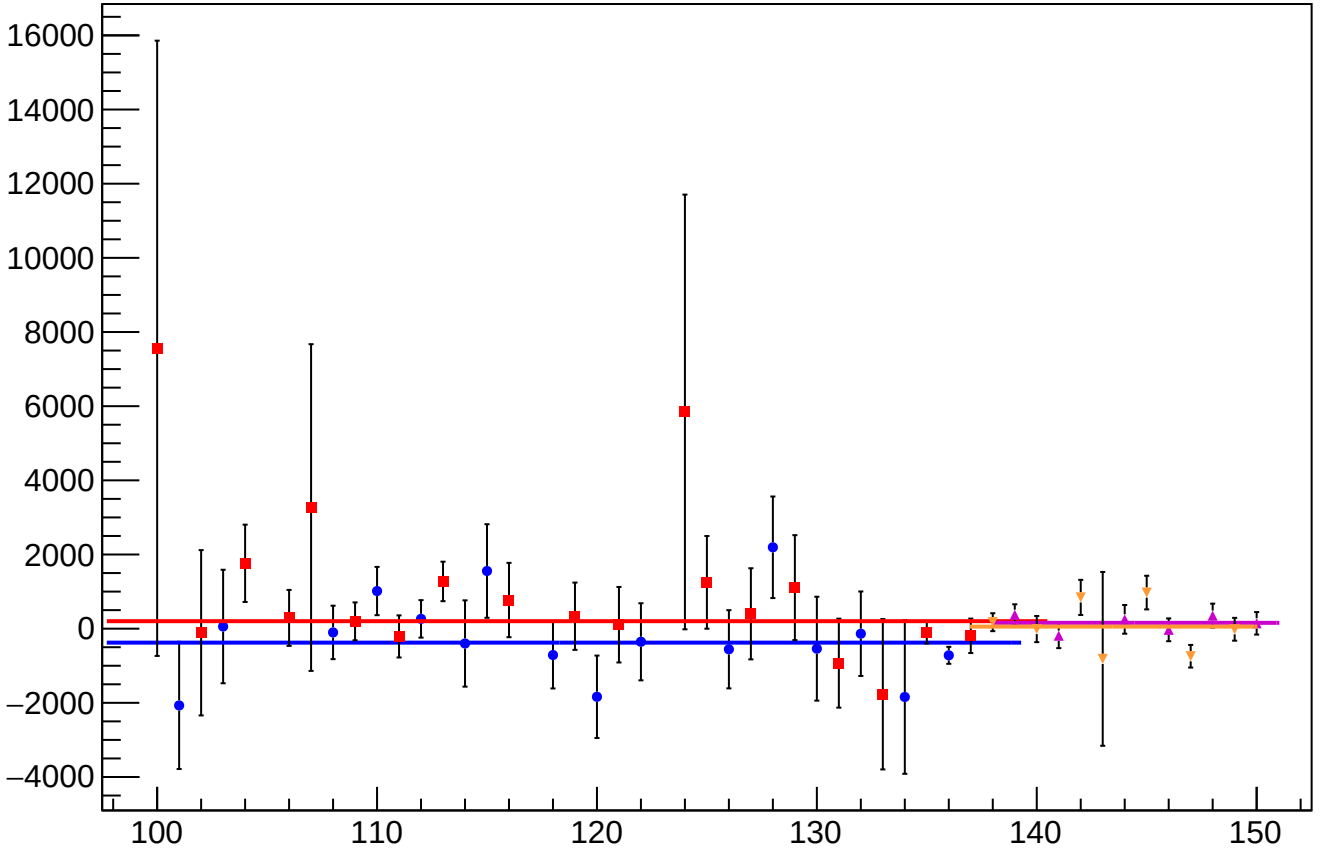
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1285.369+/-0.260 $\chi^2$/NDF:529965.6/21

Out: 1313.630+/-0.264 $\chi^2$/NDF:471046.1/25

All: 1299.291+/-0.185 $\chi^2$/NDF: 1006835.7/47

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: 55.218+/-133.658 $\chi^2$/NDF:14.2/6

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 157.327+/-130.068 $\chi^2$/NDF:2.5/5

Left: 107.662+/-93.216 $\chi^2$/NDF: 16.9/12

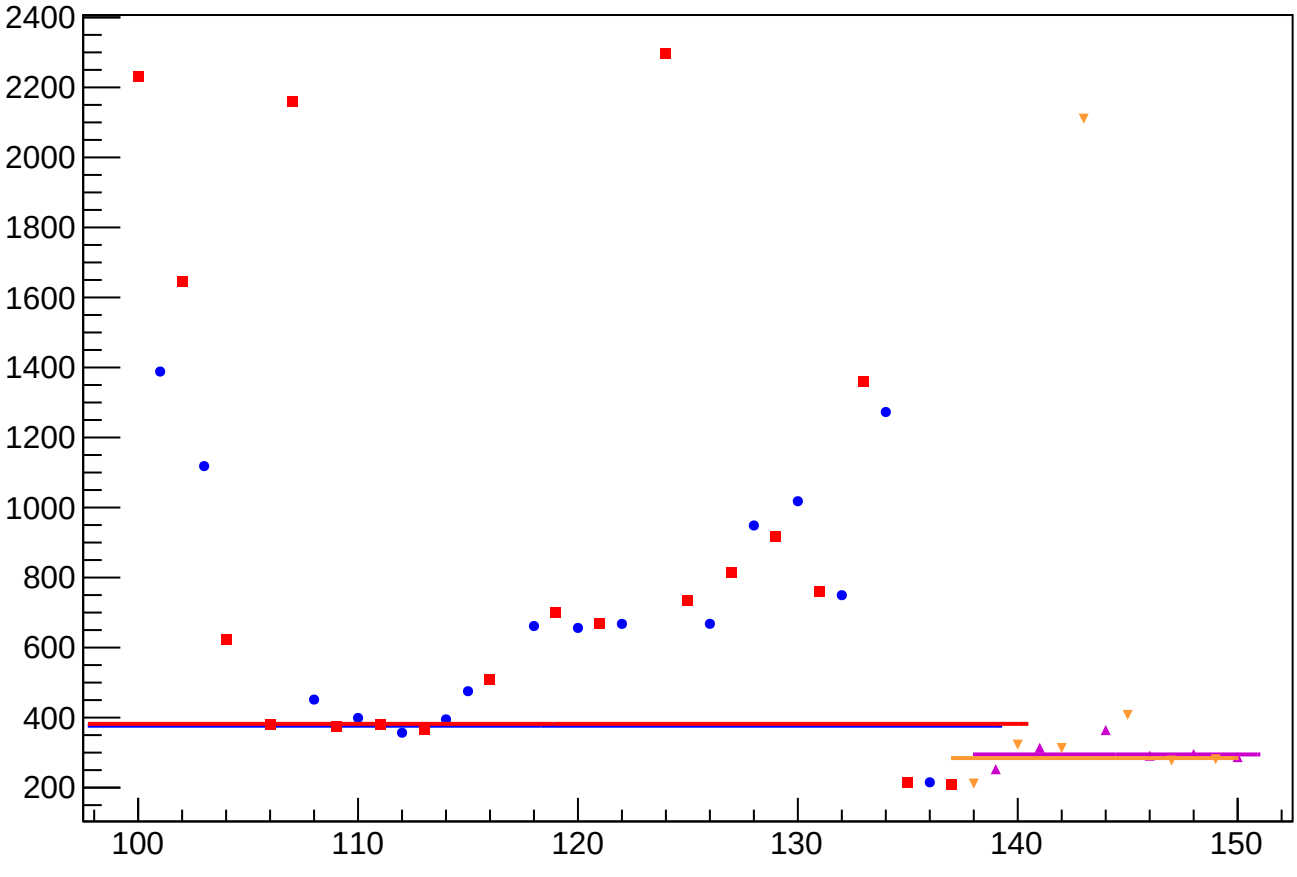
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -42.505+/-102.898 $\chi^2$/NDF:26.7/21

Out: 111.600+/-104.924 $\chi^2$/NDF:28.7/25

All: 33.045+/-73.466 $\chi^2$/NDF: 56.5/47

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 284.390+/-0.095 $\chi^2$/NDF:1575536.7/6

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 294.717+/-0.092 $\chi^2$/NDF:117243.7/5

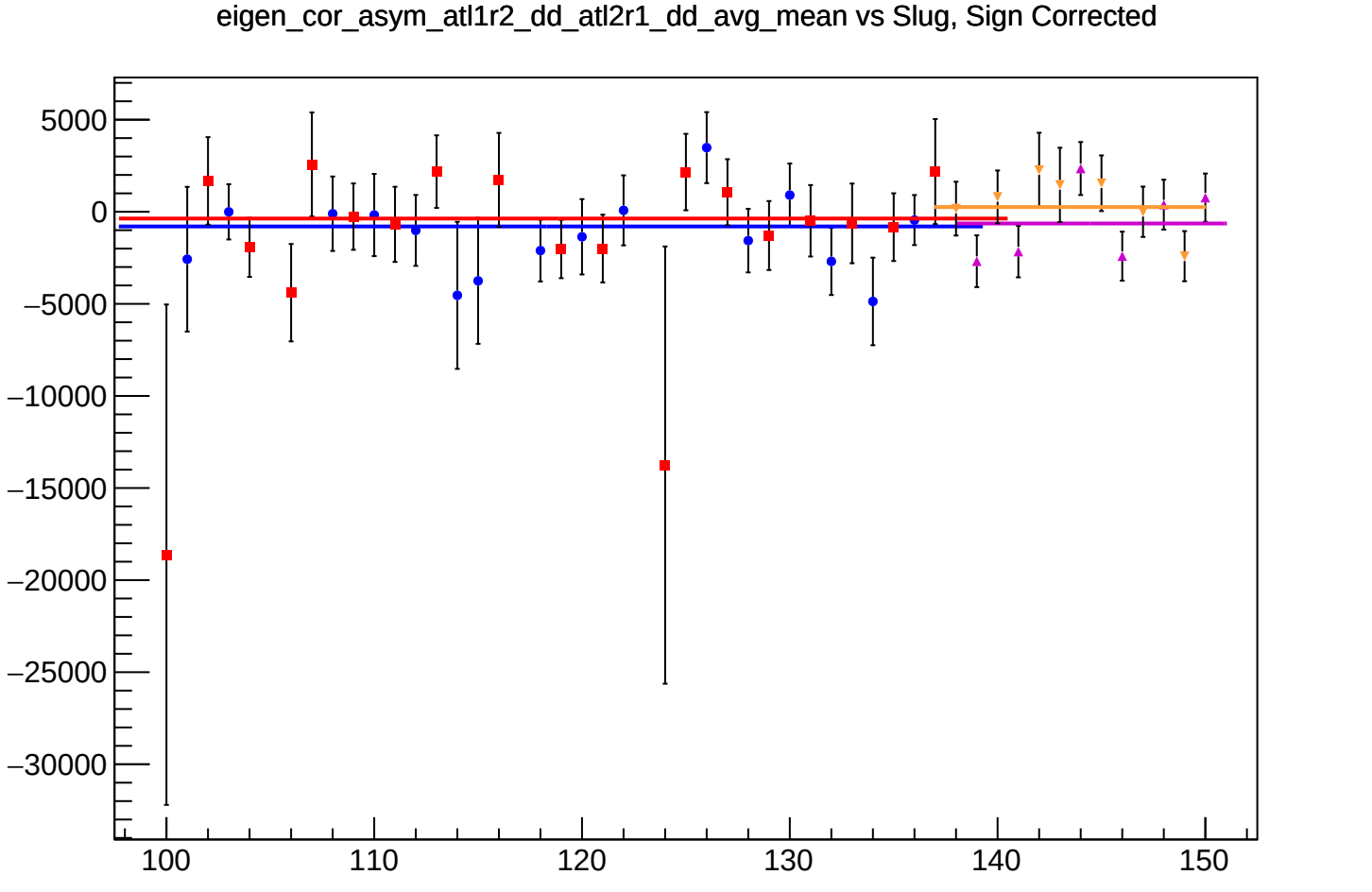
Left: 289.694+/-0.066 $\chi^2$/NDF: 1698913.2/12

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 325.460+/-0.073 $\chi^2$/NDF:4609193.2/21

Out: 321.899+/-0.074 $\chi^2$/NDF:6045606.2/25

All: 323.714+/-0.052 $\chi^2$/NDF: 10655973.2/47




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: 256.045+/-581.380 $\chi^2$/NDF:6.1/6

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -635.849+/-559.690 $\chi^2$/NDF:11.1/5

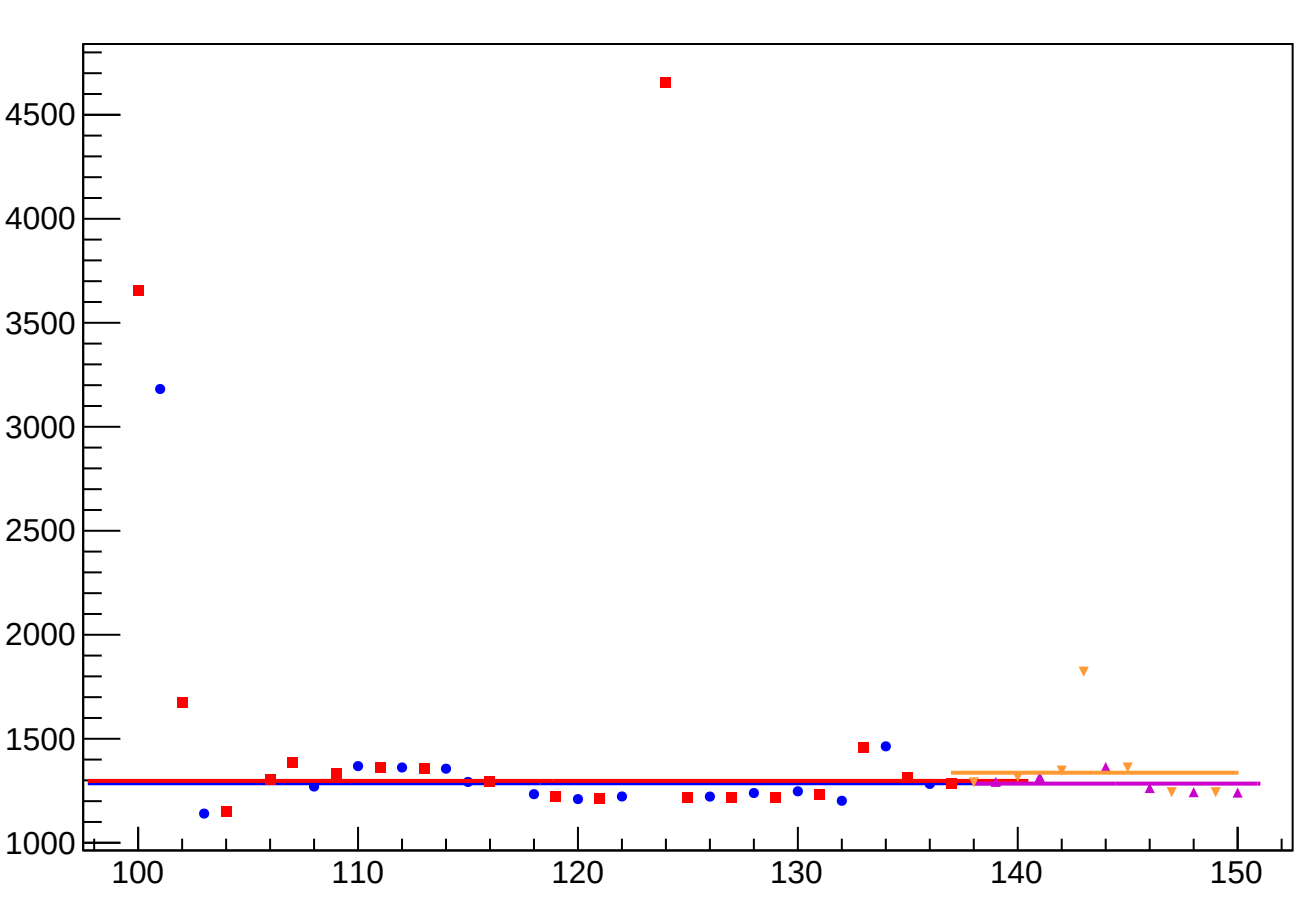
Left: -206.849+/-403.211 $\chi^2$/NDF: 18.4/12

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -727.422+/-367.586 $\chi^2$/NDF:24.6/21

Out: -110.775+/-373.034 $\chi^2$/NDF:22.4/25

All: -423.634+/-261.827 $\chi^2$/NDF: 48.4/47




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1336.831+/-0.411 $\chi^2$/NDF:137890.3/6

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1284.409+/-0.396 $\chi^2$/NDF:11826.9/5

Left: 1309.624+/-0.285 $\chi^2$/NDF: 158156.5/12

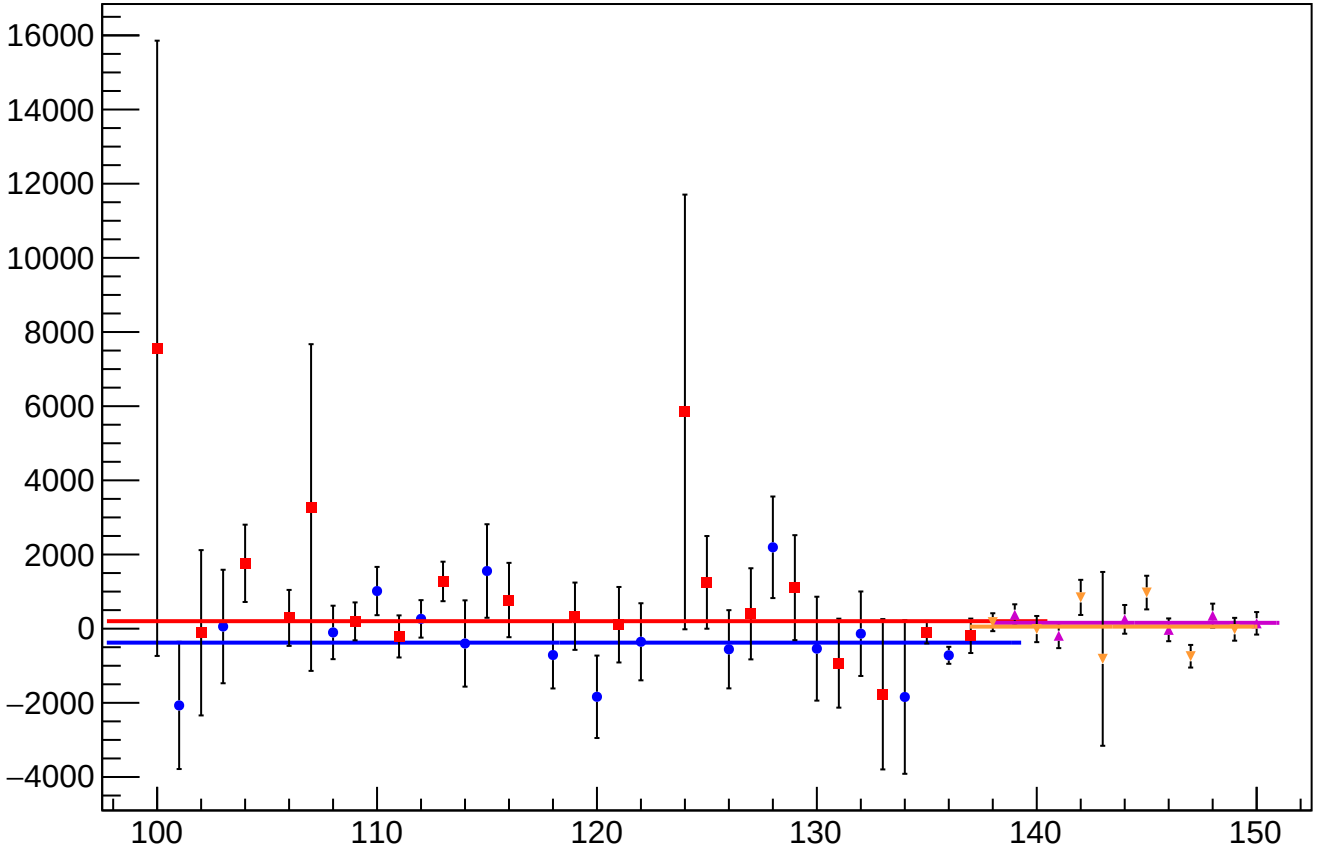
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1285.369+/-0.260 $\chi^2$/NDF:529965.6/21

Out: 1313.630+/-0.264 $\chi^2$/NDF:471046.1/25

All: 1299.291+/-0.185 $\chi^2$/NDF: 1006835.7/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: 55.218+/-133.658 $\chi^2$/NDF:14.2/6

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 157.327+/-130.068 $\chi^2$/NDF:2.5/5

Left: 107.662+/-93.216 $\chi^2$/NDF: 16.9/12

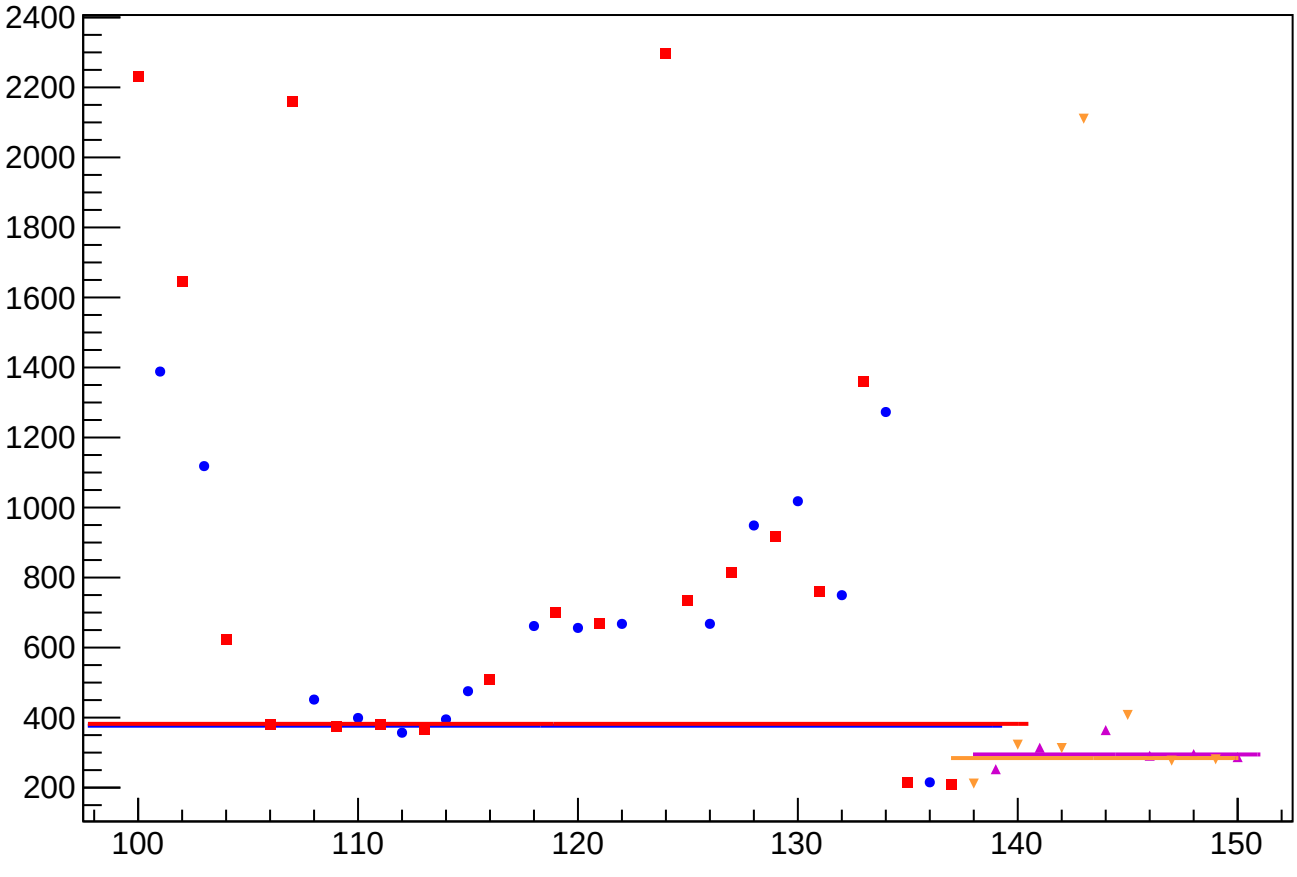
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -42.505+/-102.898 $\chi^2$/NDF:26.7/21

Out: 111.600+/-104.924 $\chi^2$/NDF:28.7/25

All: 33.045+/-73.466 $\chi^2$/NDF: 56.5/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 284.390+/-0.095 $\chi^2$/NDF:1575536.7/6

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 294.717+/-0.092 $\chi^2$/NDF:117243.7/5

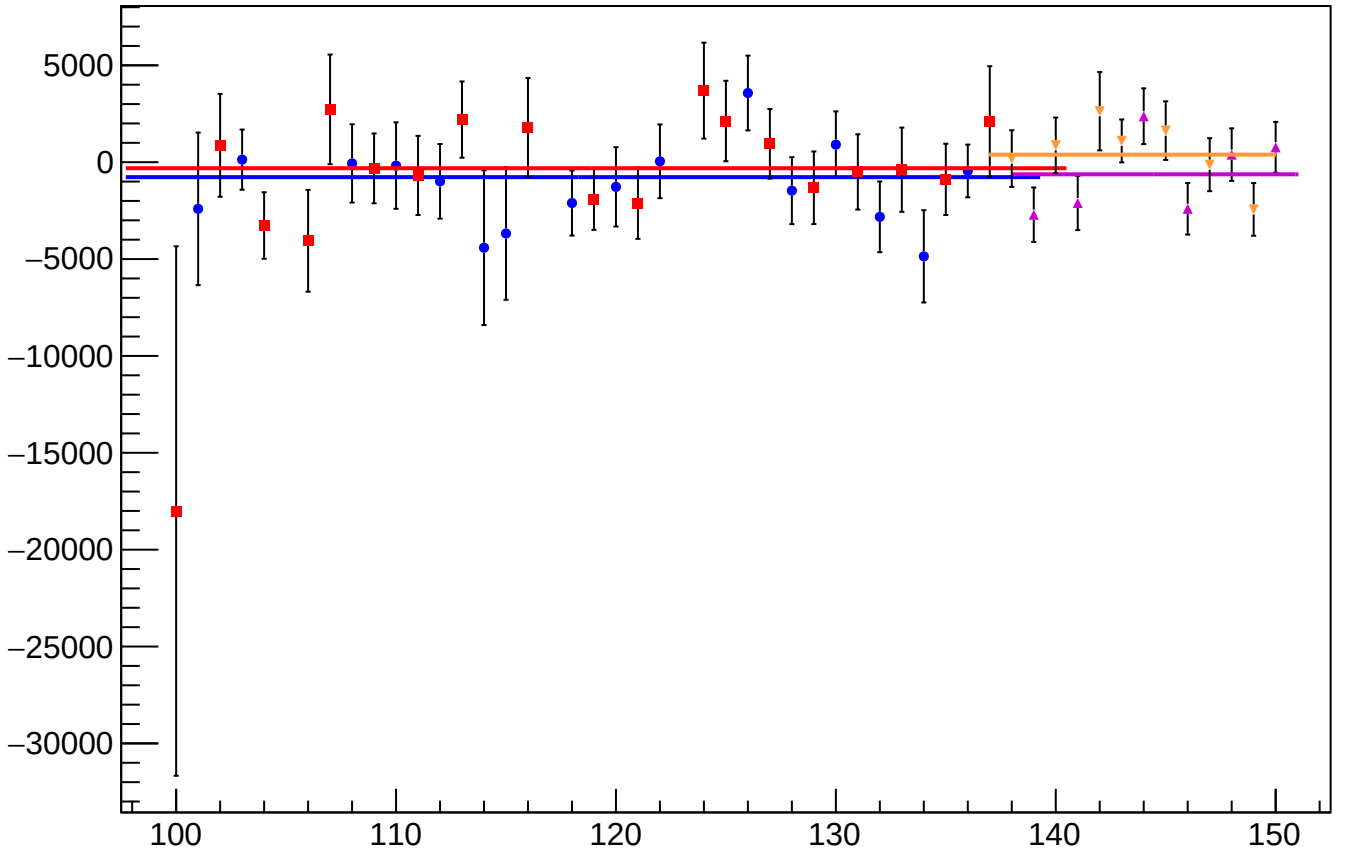
Left: 289.694+/-0.066 $\chi^2$/NDF: 1698913.2/12

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 325.460+/-0.073 $\chi^2$/NDF:4609193.2/21

Out: 321.899+/-0.074 $\chi^2$/NDF:6045606.2/25

All: 323.714+/-0.052 $\chi^2$/NDF: 10655973.2/47




Right In: -771.499+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: 390.709+/-532.459 $\chi^2$/NDF:6.9/6

Right Out: -311.418+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -625.530+/-560.105 $\chi^2$/NDF:11.1/5

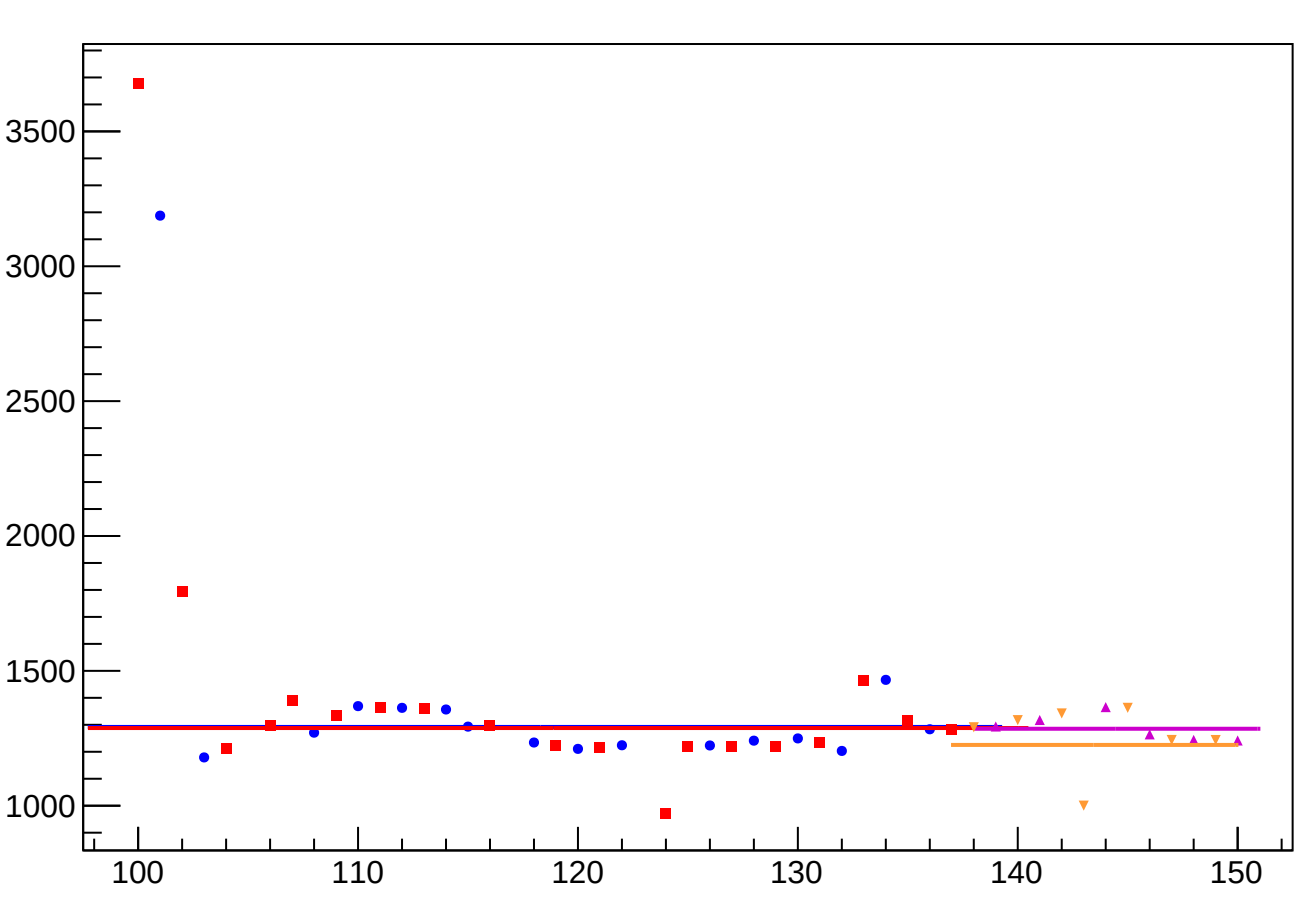
Left: -91.712+/-385.909 $\chi^2$/NDF: 19.8/12

Right: -538.165+/-343.714 $\chi^2$/NDF: 32.0/34

In: -708.274+/-368.623 $\chi^2$/NDF:24.8/21

Out: 5.271+/-357.598 $\chi^2$/NDF:25.8/25

All: -340.671+/-256.669 $\chi^2$/NDF: 52.5/47




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1225.386+/-0.377 $\chi^2$/NDF:118799.5/6

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1285.350+/-0.396 $\chi^2$/NDF:11910.9/5

Left: 1253.852+/-0.273 $\chi^2$/NDF: 142751.8/12

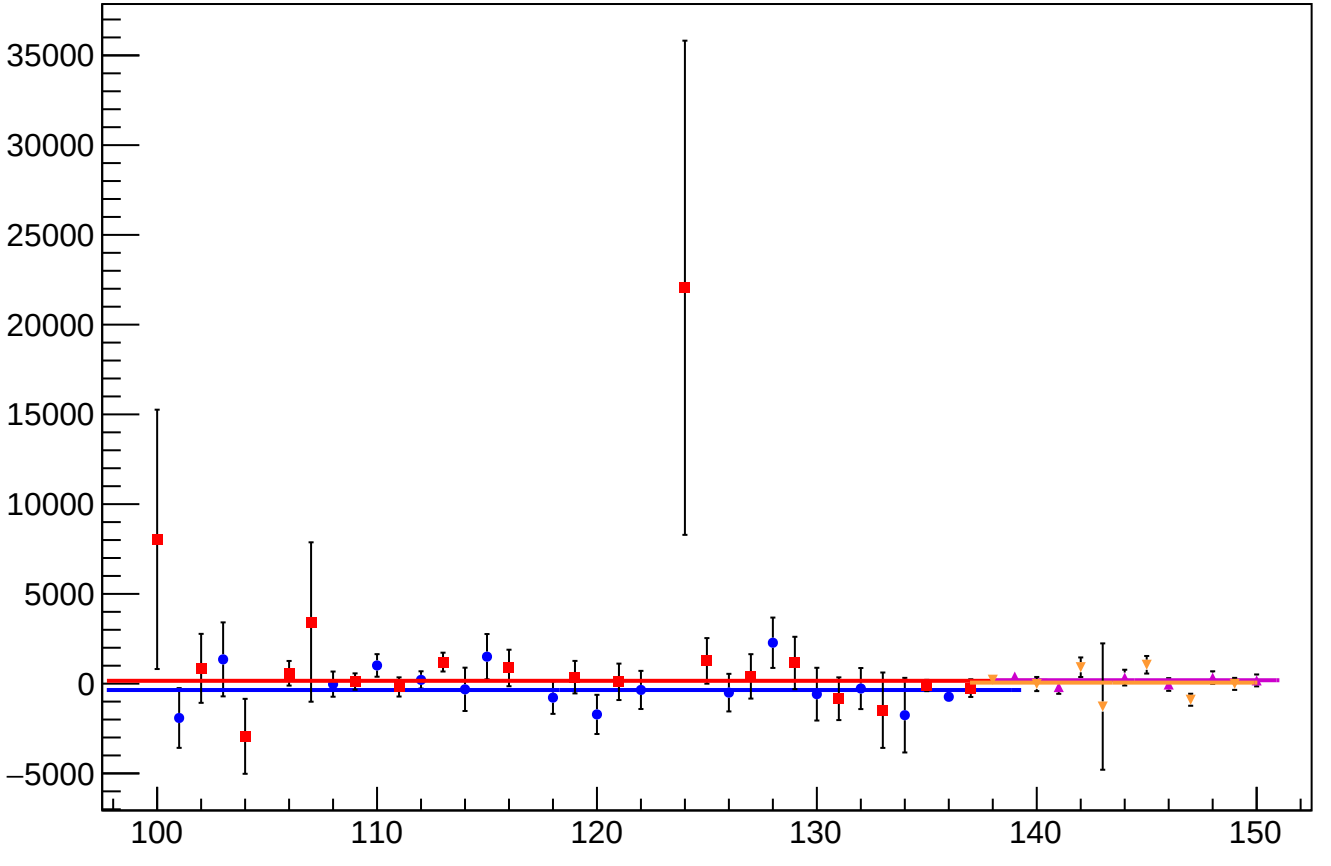
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1289.141+/-0.261 $\chi^2$/NDF:521478.8/21

Out: 1259.752+/-0.253 $\chi^2$/NDF:343185.2/25

All: 1274.000+/-0.181 $\chi^2$/NDF: 871213.4/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.971 $\chi^2$/NDF: 18.4/15

Left Out: 57.041+/-143.217 $\chi^2$/NDF:15.4/6

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 189.832+/-140.942 $\chi^2$/NDF:2.3/5

Left: 124.499+/-100.456 $\chi^2$/NDF: 18.1/12

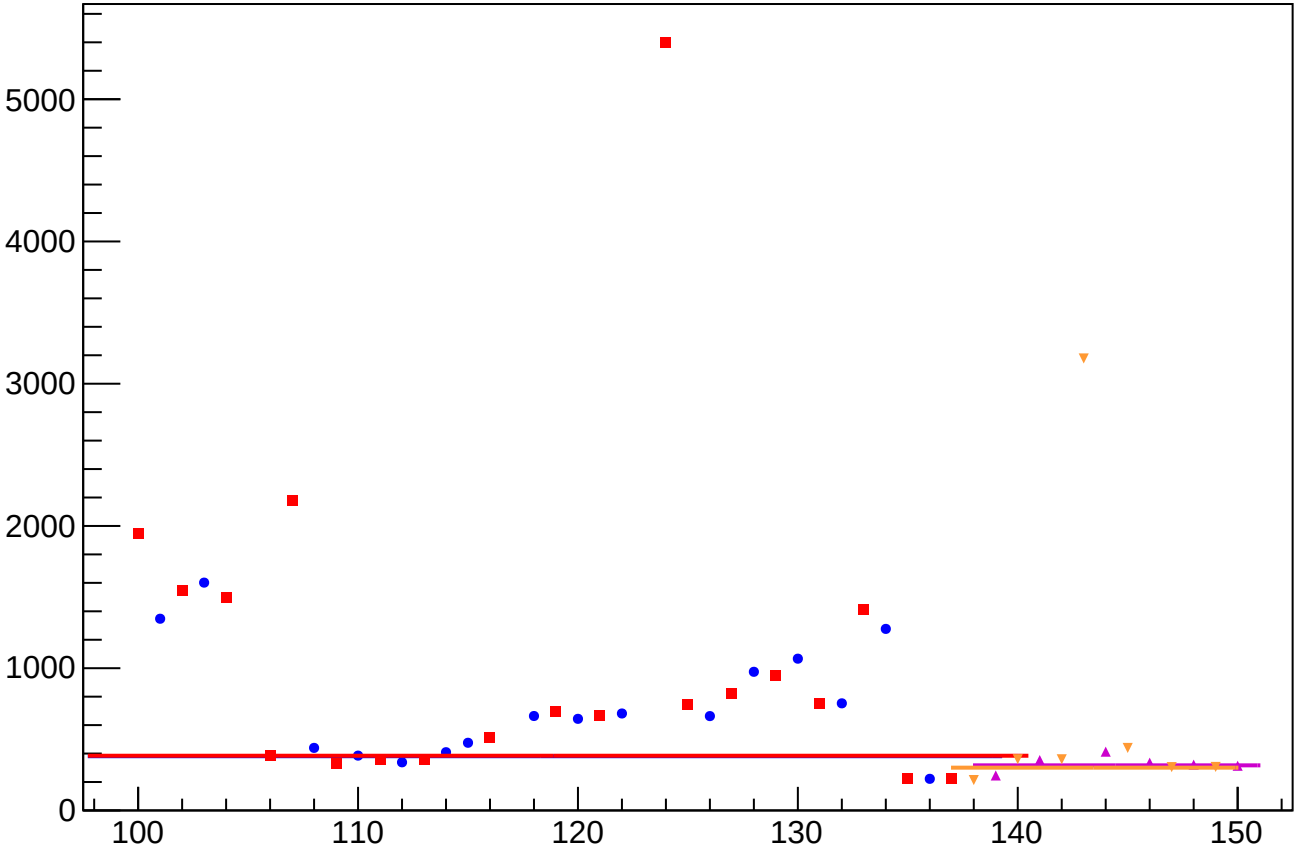
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: -32.247+/-108.494 $\chi^2$/NDF:26.8/21

Out: 99.015+/-109.439 $\chi^2$/NDF:31.4/25

All: 32.815+/-77.049 $\chi^2$/NDF: 59.0/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.349+/-0.120 $\chi^2$/NDF: 4317922.6/15

Left Out: 300.837+/-0.101 $\chi^2$/NDF:1822142.5/6

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 317.095+/-0.100 $\chi^2$/NDF:254082.3/5

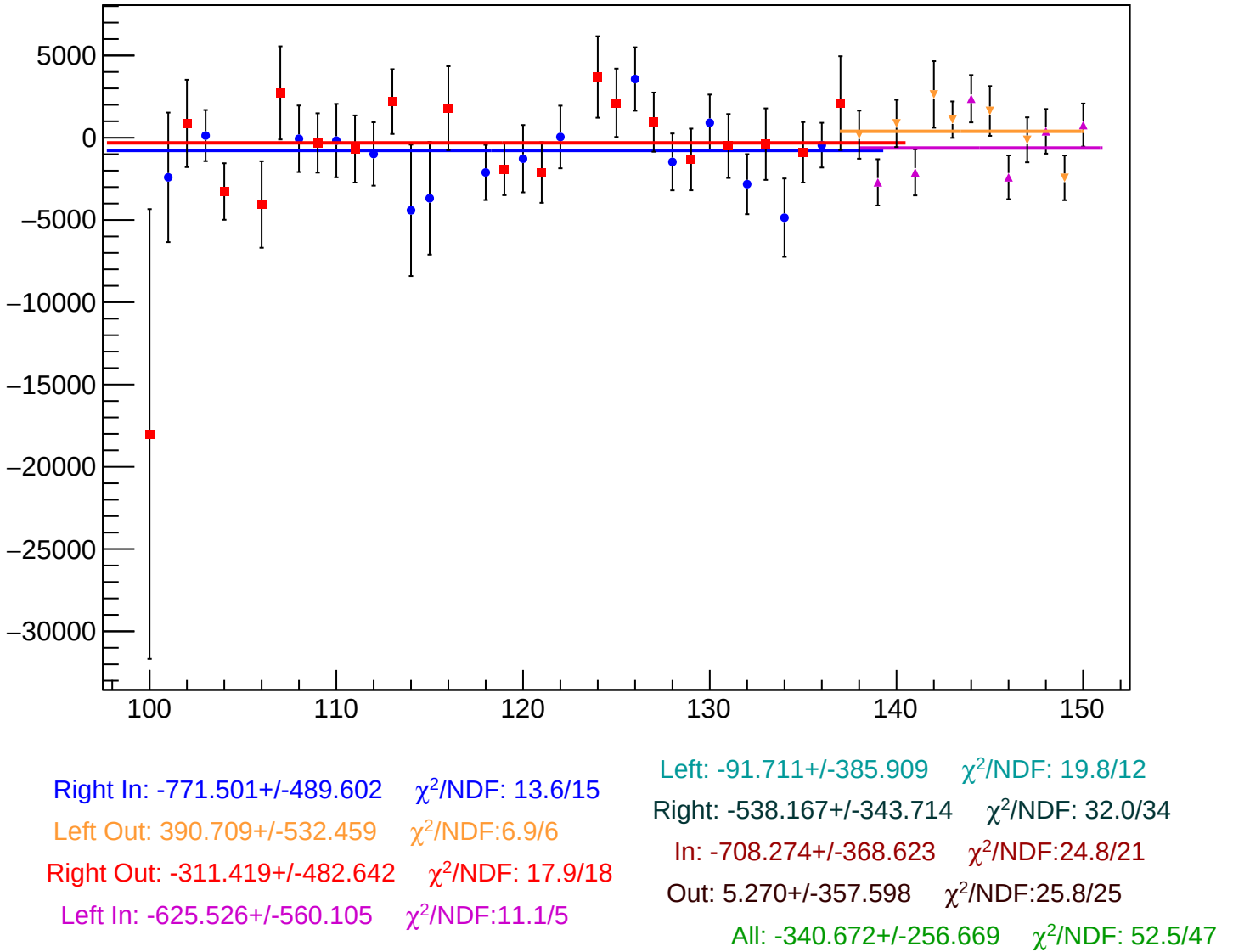
Left: 309.096+/-0.071 $\chi^2$/NDF: 2089317.7/12

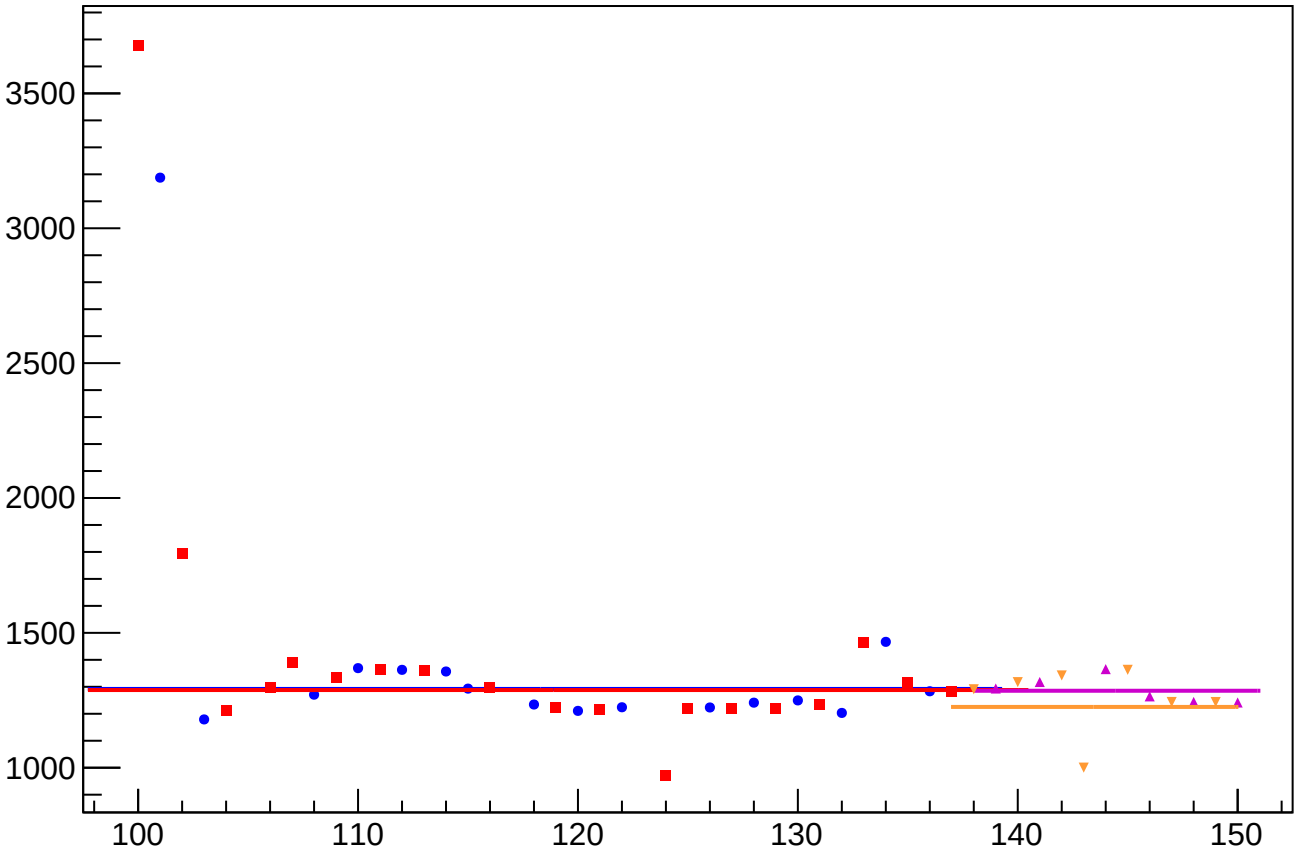
Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 343.275+/-0.077 $\chi^2$/NDF:4741368.3/21

Out: 335.709+/-0.077 $\chi^2$/NDF:6667347.3/25

All: 339.525+/-0.054 $\chi^2$/NDF: 11413535.7/47


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
110
120
130
140
150
Right In: -771.501+/-489.602 χ²/NDF: 13.6/15
Left Out: 390.709+/-532.459 χ²/NDF:6.9/6
Right Out: -311.419+/-482.642 χ²/NDF: 17.9/18
Left In: -625.526+/-560.105 χ²/NDF:11.1/5
Left: -91.711+/-385.909 χ²/NDF: 19.8/12
Right: -538.167+/-343.714 χ²/NDF: 32.0/34
In: -708.274+/-368.623 χ²/NDF:24.8/21
Out: 5.270+/-357.598 χ²/NDF:25.8/25
All: -340.672+/-256.669 χ²/NDF: 52.5/47




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1225.386+/-0.377 $\chi^2$/NDF:118798.7/6

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1285.350+/-0.396 $\chi^2$/NDF:11911.0/5

Left: 1253.852+/-0.273 $\chi^2$/NDF: 142751.0/12

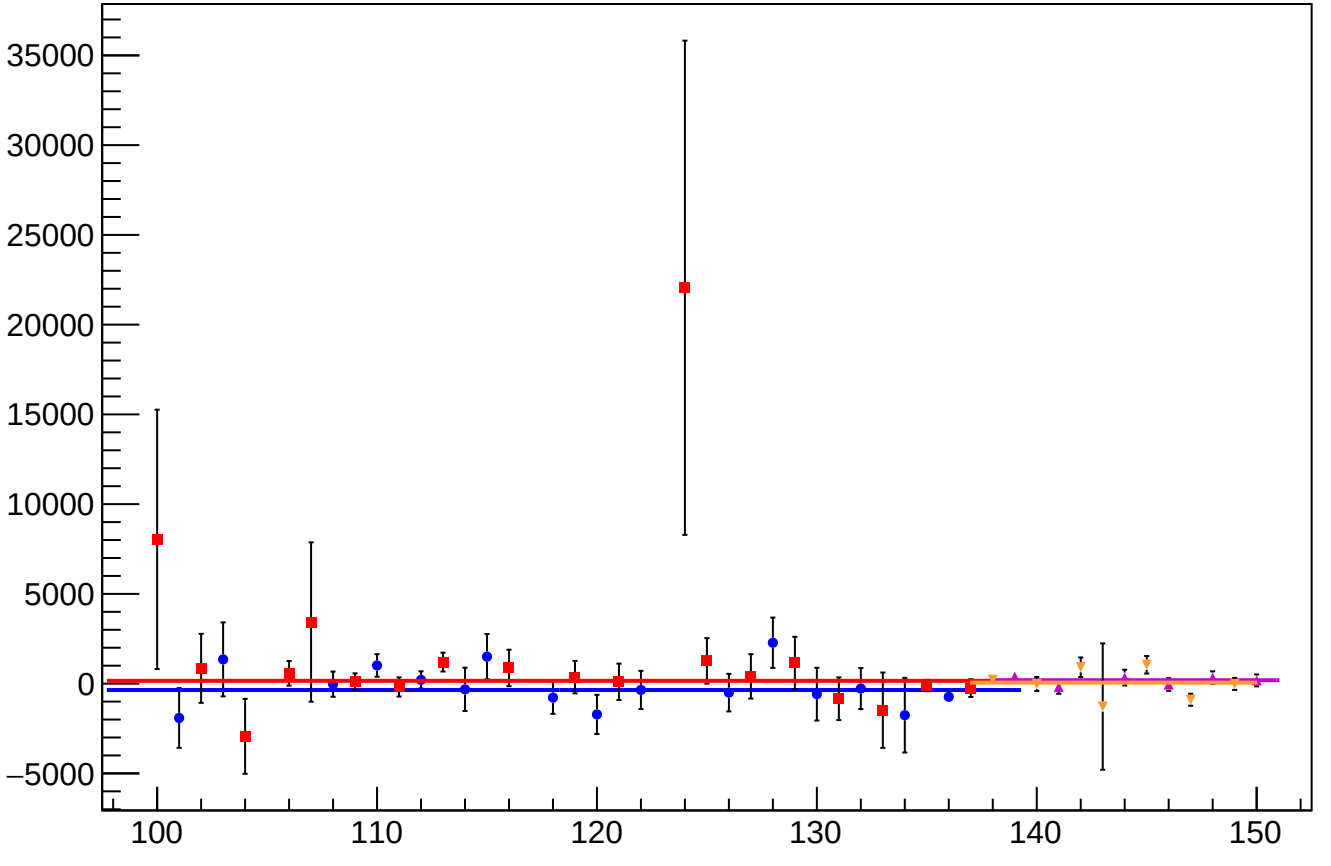
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1289.141+/-0.261 $\chi^2$/NDF:521478.9/21

Out: 1259.752+/-0.253 $\chi^2$/NDF:343184.6/25

All: 1274.001+/-0.181 $\chi^2$/NDF: 871212.7/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.973 $\chi^2$/NDF: 18.4/15

Left Out: 57.035+/-143.220 $\chi^2$/NDF:15.4/6

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 189.833+/-140.944 $\chi^2$/NDF:2.3/5

Left: 124.498+/-100.457 $\chi^2$/NDF: 18.1/12

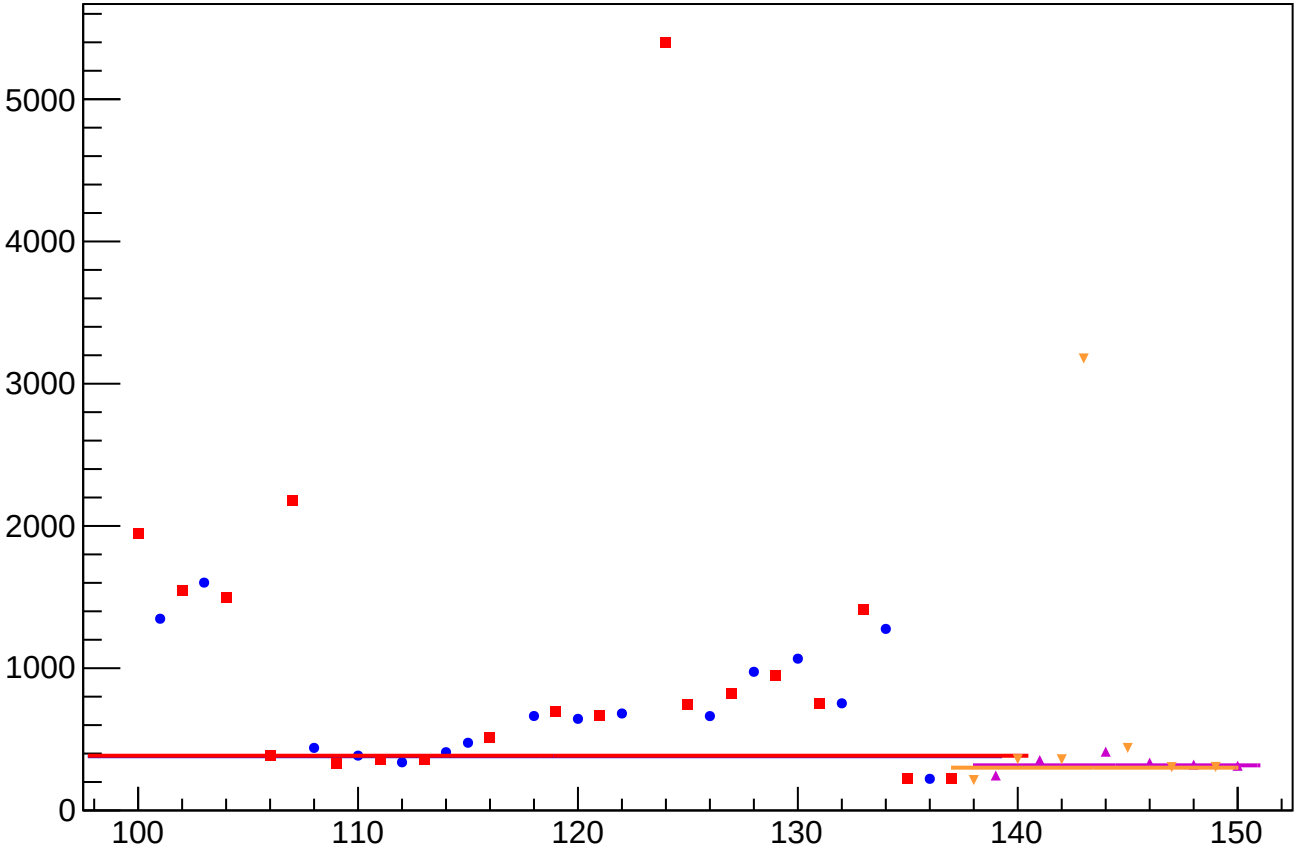
Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: -32.245+/-108.496 $\chi^2$/NDF:26.8/21

Out: 99.014+/-109.441 $\chi^2$/NDF:31.4/25

All: 32.815+/-77.050 $\chi^2$/NDF: 59.0/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.359+/-0.120 $\chi^2$/NDF: 4317737.3/15

Left Out: 300.845+/-0.101 $\chi^2$/NDF:1822040.2/6

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 317.100+/-0.100 $\chi^2$/NDF:254013.7/5

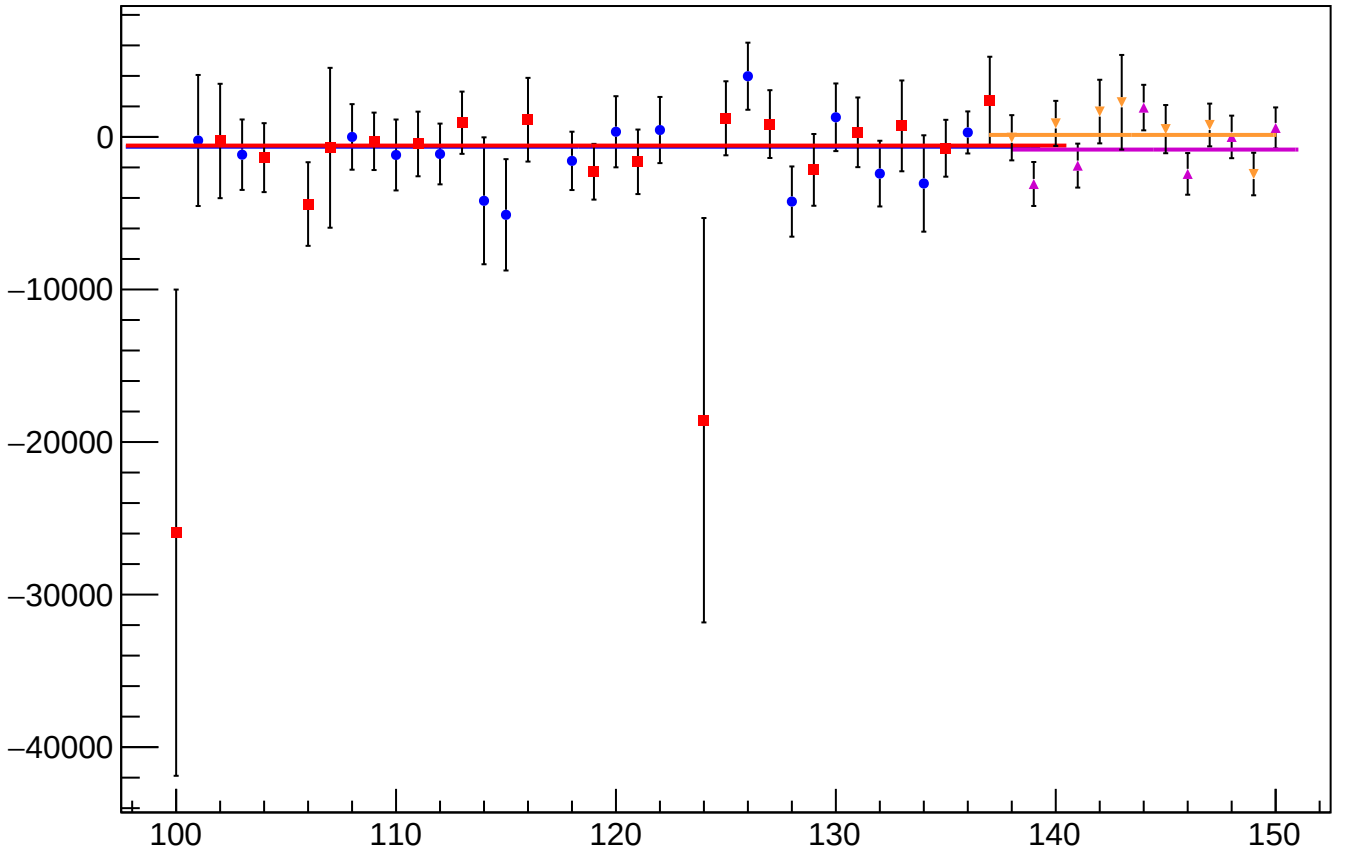
Left: 309.103+/-0.071 $\chi^2$/NDF: 2089141.9/12

Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 343.282+/-0.077 $\chi^2$/NDF:4741134.4/21

Out: 335.717+/-0.077 $\chi^2$/NDF:6667094.4/25

All: 339.532+/-0.054 $\chi^2$/NDF: 11413047.3/47




Right In: -640.824+/-564.366 $\chi^2$/NDF: 12.5/15

Left Out: 132.300+/-611.759 $\chi^2$/NDF:4.9/6

Right Out: -567.254+/-566.774 $\chi^2$/NDF: 11.3/18

Left In: -828.911+/-575.894 $\chi^2$/NDF:9.2/5

Left: -377.306+/-419.325 $\chi^2$/NDF: 15.5/12

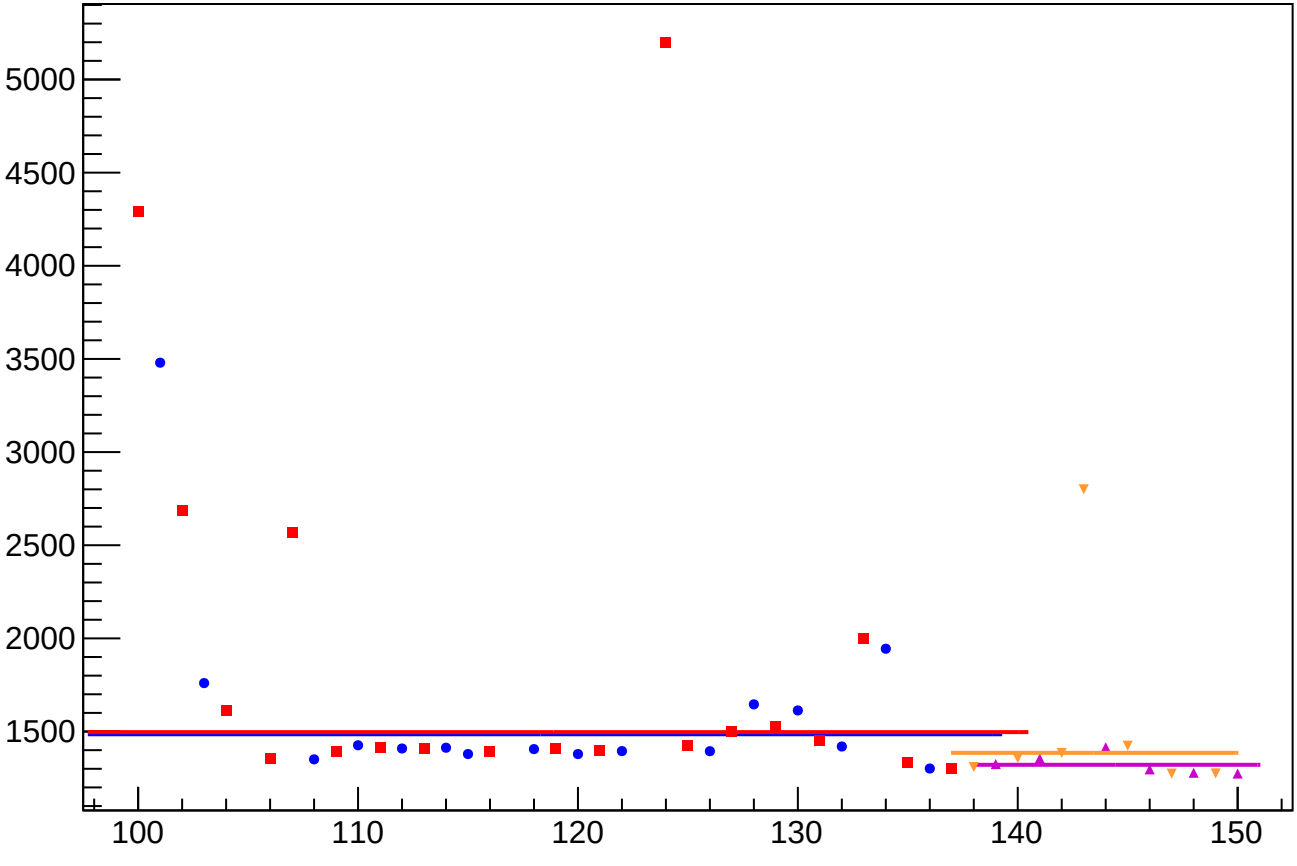
Right: -604.196+/-399.916 $\chi^2$/NDF: 23.8/34

In: -732.966+/-403.081 $\chi^2$/NDF:21.7/21

Out: -244.140+/-415.765 $\chi^2$/NDF:17.0/25

All: -496.123+/-289.401 $\chi^2$/NDF: 39.4/47

# asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1385.641+/-0.433 $\chi^2$/NDF:448067.7/6

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1321.392+/-0.407 $\chi^2$/NDF:14037.0/5

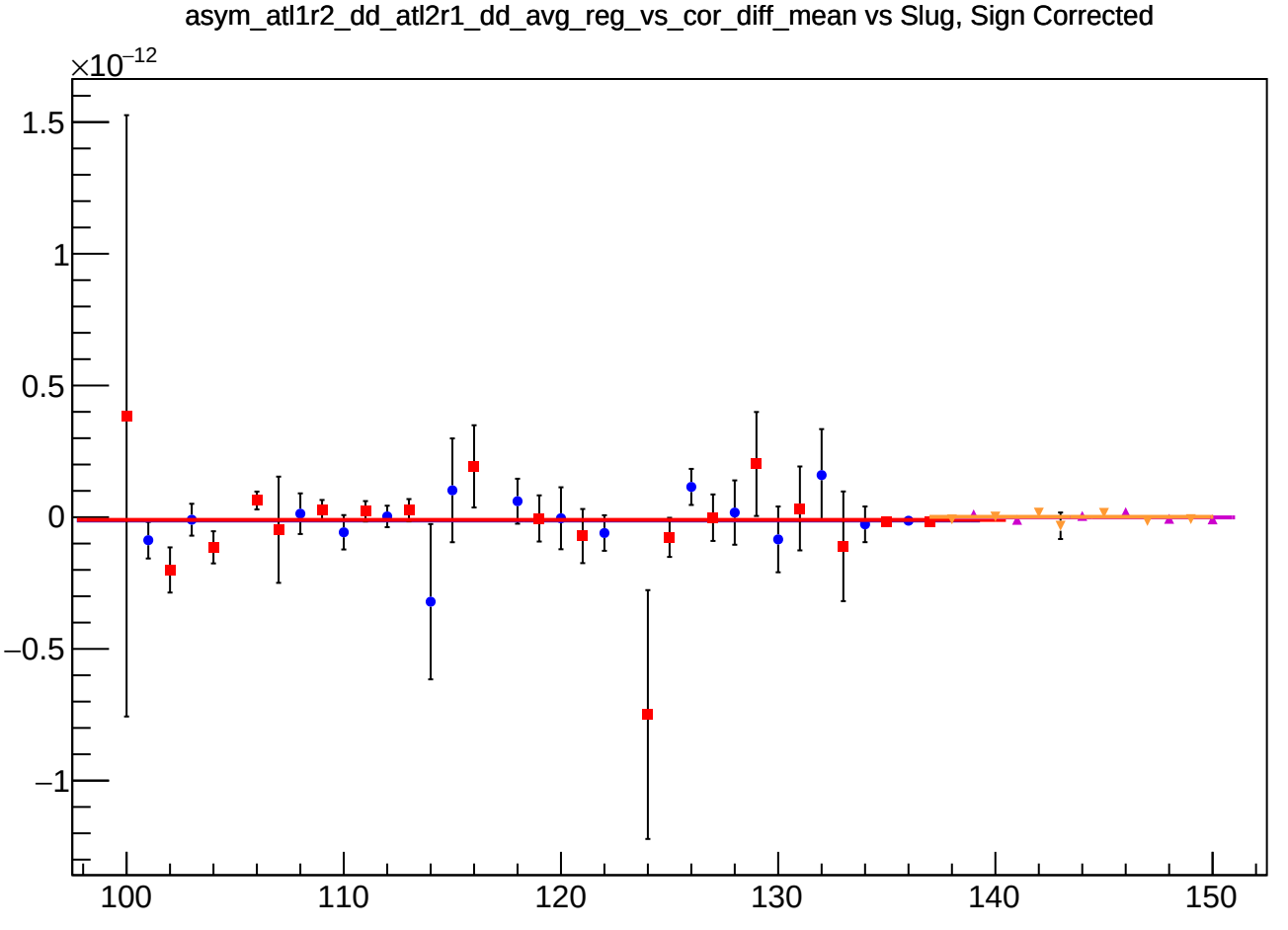
Left: 1351.578+/-0.297 $\chi^2$/NDF: 473800.1/12

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1405.039+/-0.285 $\chi^2$/NDF:681221.5/21

Out: 1445.493+/-0.294 $\chi^2$/NDF:1106935.7/25

All: 1424.639+/-0.205 $\chi^2$/NDF: 1797917.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.8/5

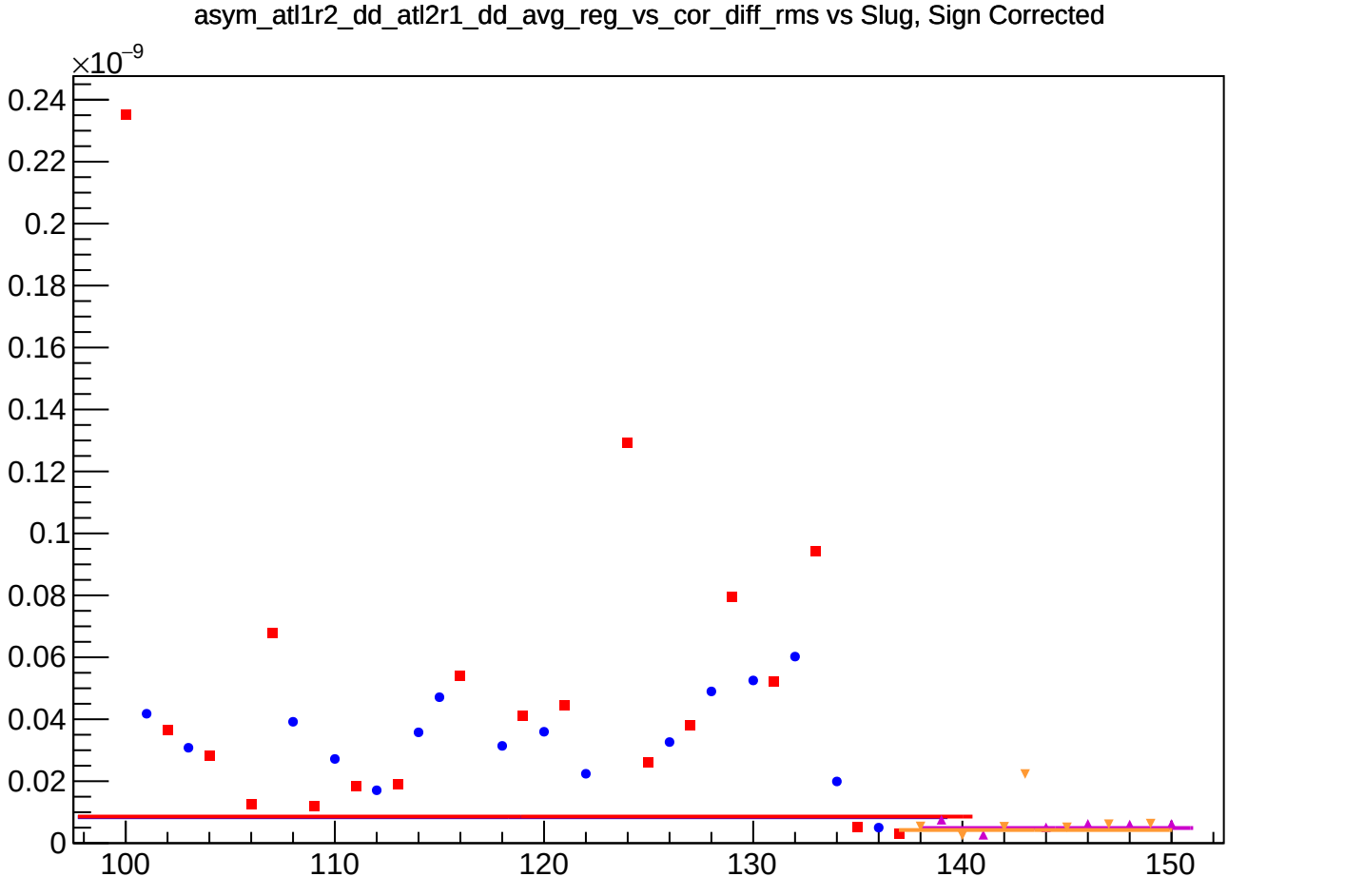
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

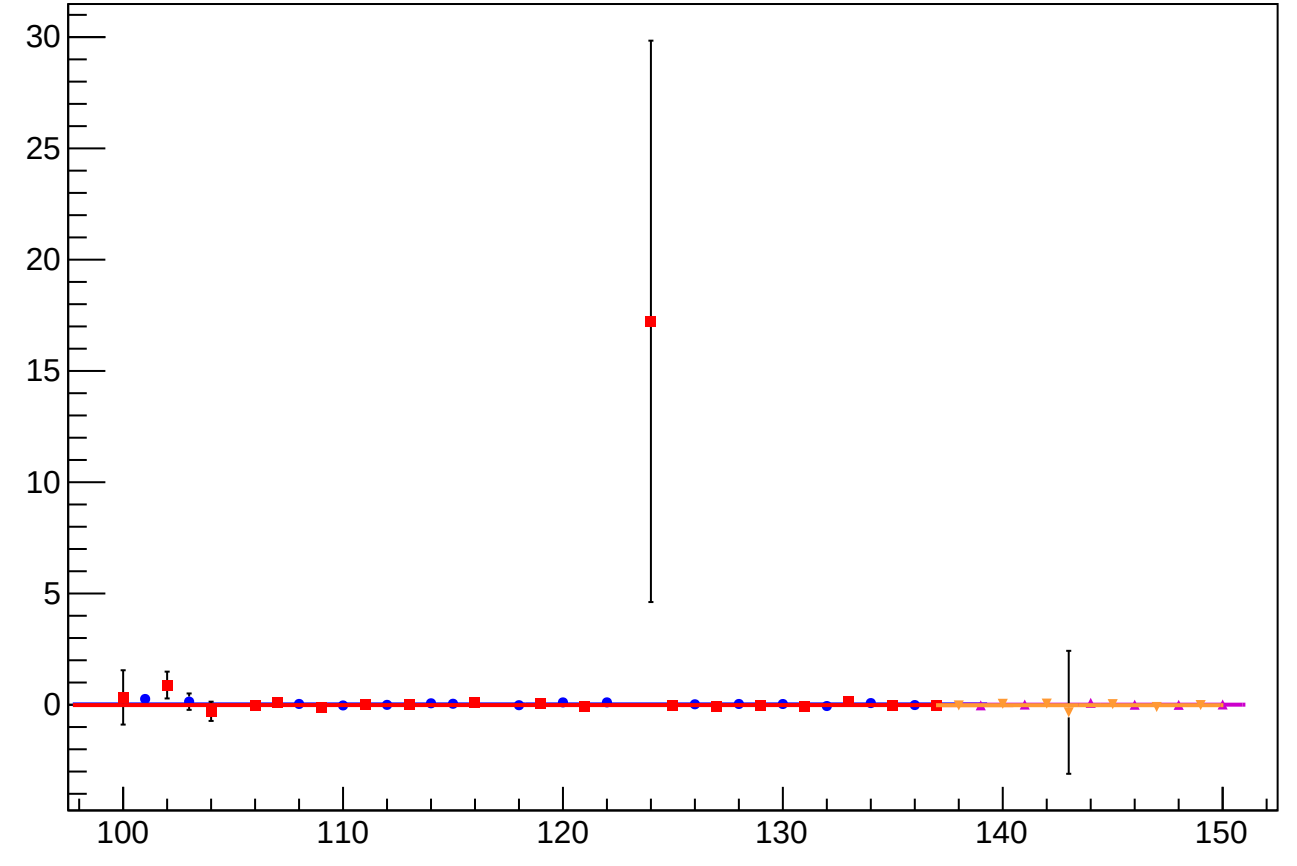
In: -0.000+/-0.000 $\chi^2$/NDF:20.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 54.0/47


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3059657.6/15
Left Out: 0.000+/-0.000 χ²/NDF:713900.0/6
Right Out: 0.000+/-0.000 χ²/NDF: 3348571.5/18
Left In: 0.000+/-0.000 χ²/NDF:497850.9/5
Left: 0.000+/-0.000 χ²/NDF: 1247941.3/12
Right: 0.000+/-0.000 χ²/NDF: 6408892.5/34
In: 0.000+/-0.000 χ²/NDF:3918342.9/21
Out: 0.000+/-0.000 χ²/NDF:4561709.9/25
All: 0.000+/-0.000 χ²/NDF: 8524163.6/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

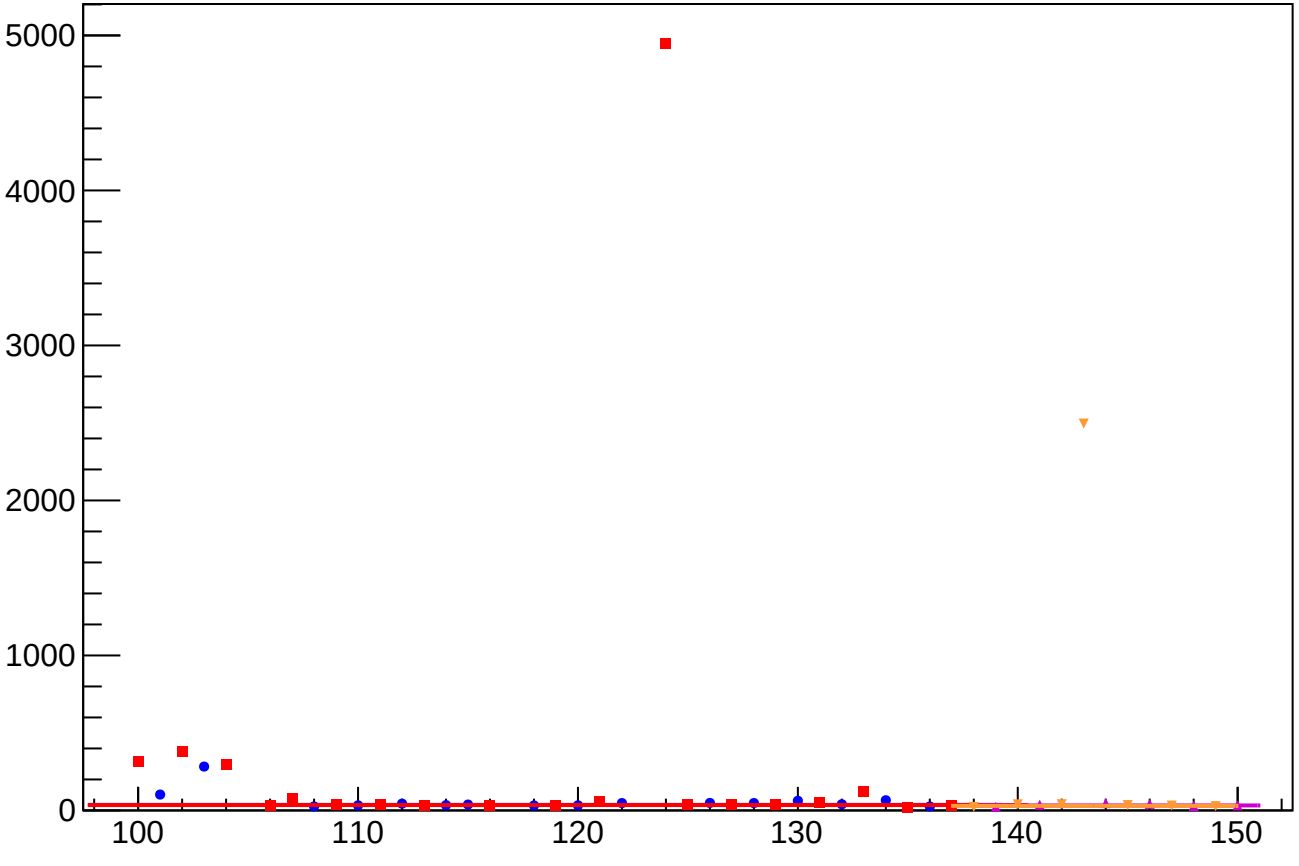
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905740.5/6

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.274+/-0.011 $\chi^2$/NDF:478490.9/5

Left: 30.920+/-0.008 $\chi^2$/NDF: 2413636.1/12

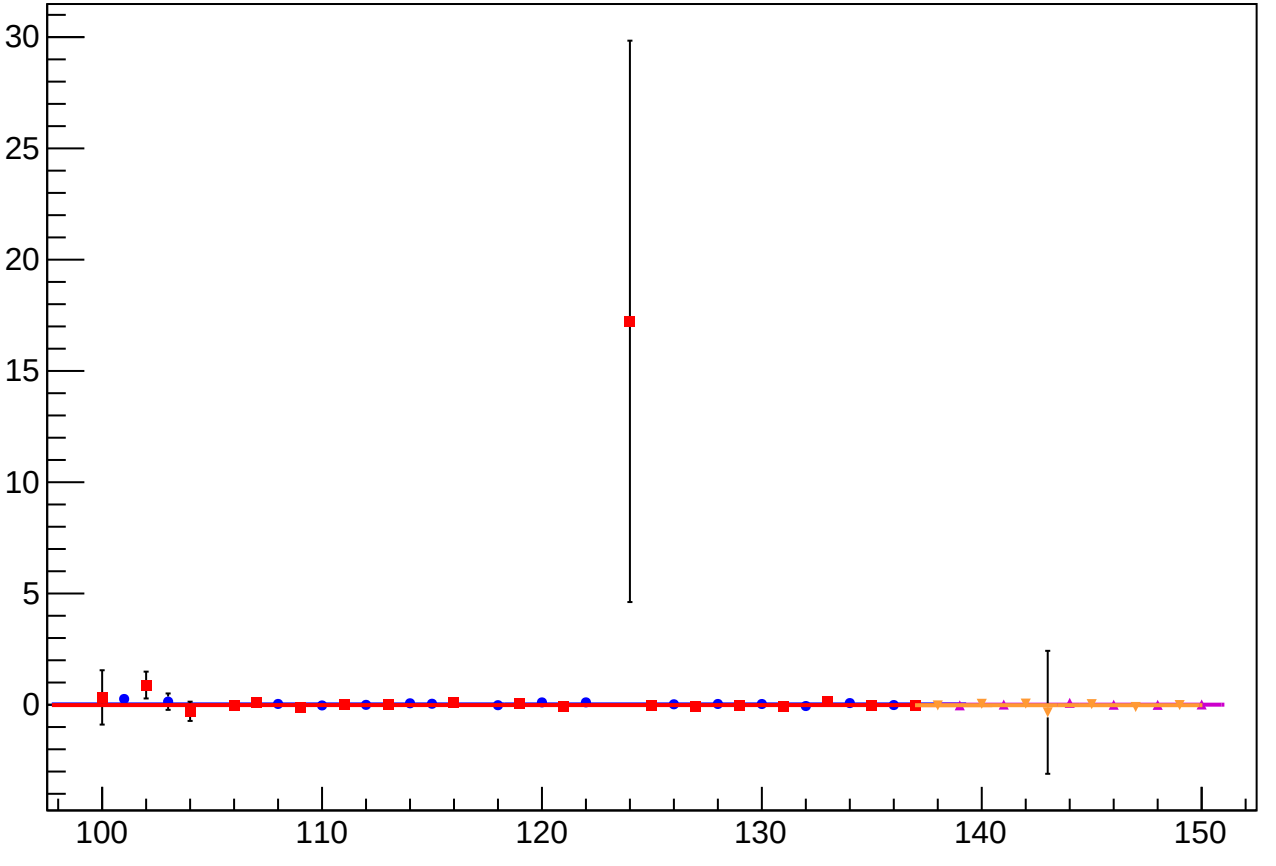
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793023.5/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931765.7/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753771.1/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

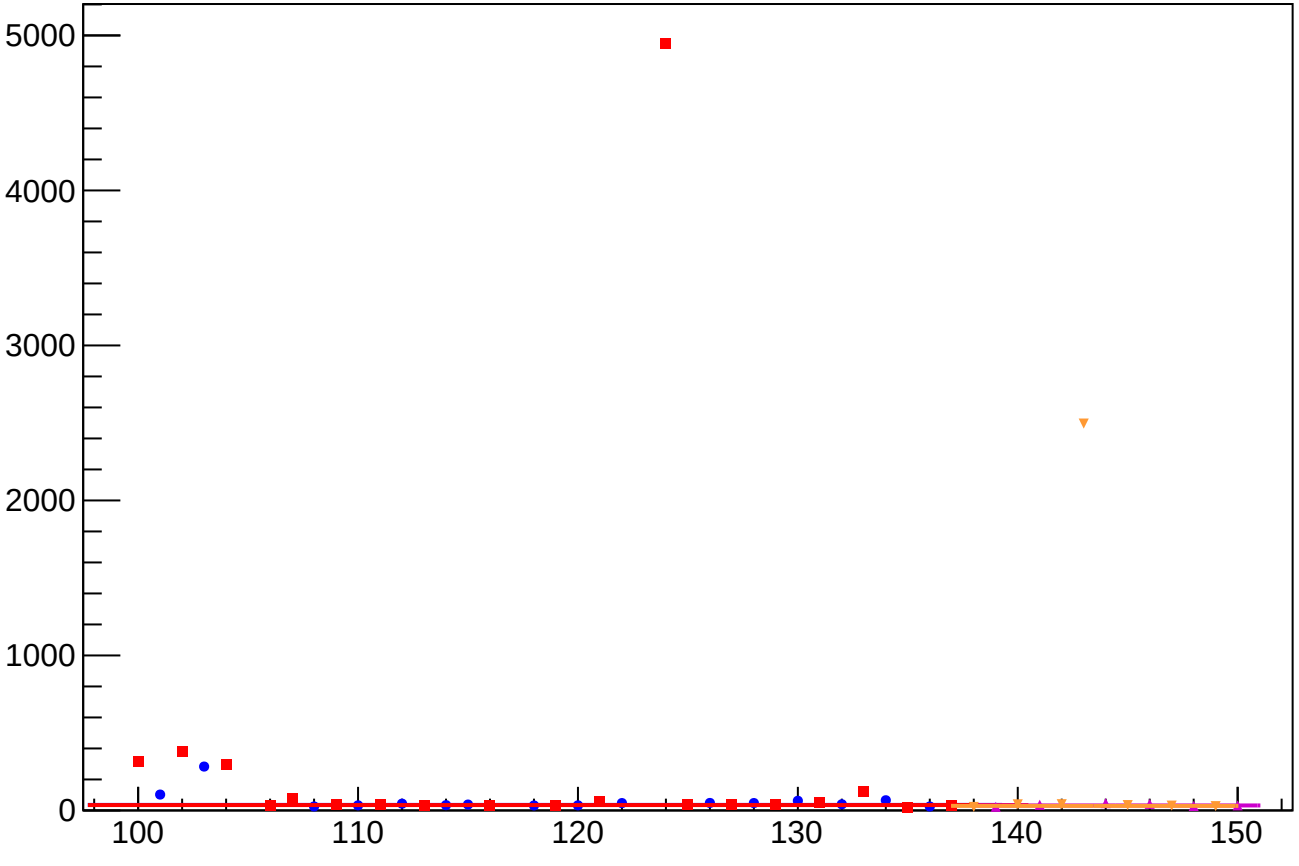
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905740.5/6

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.274+/-0.011 $\chi^2$/NDF:478490.9/5

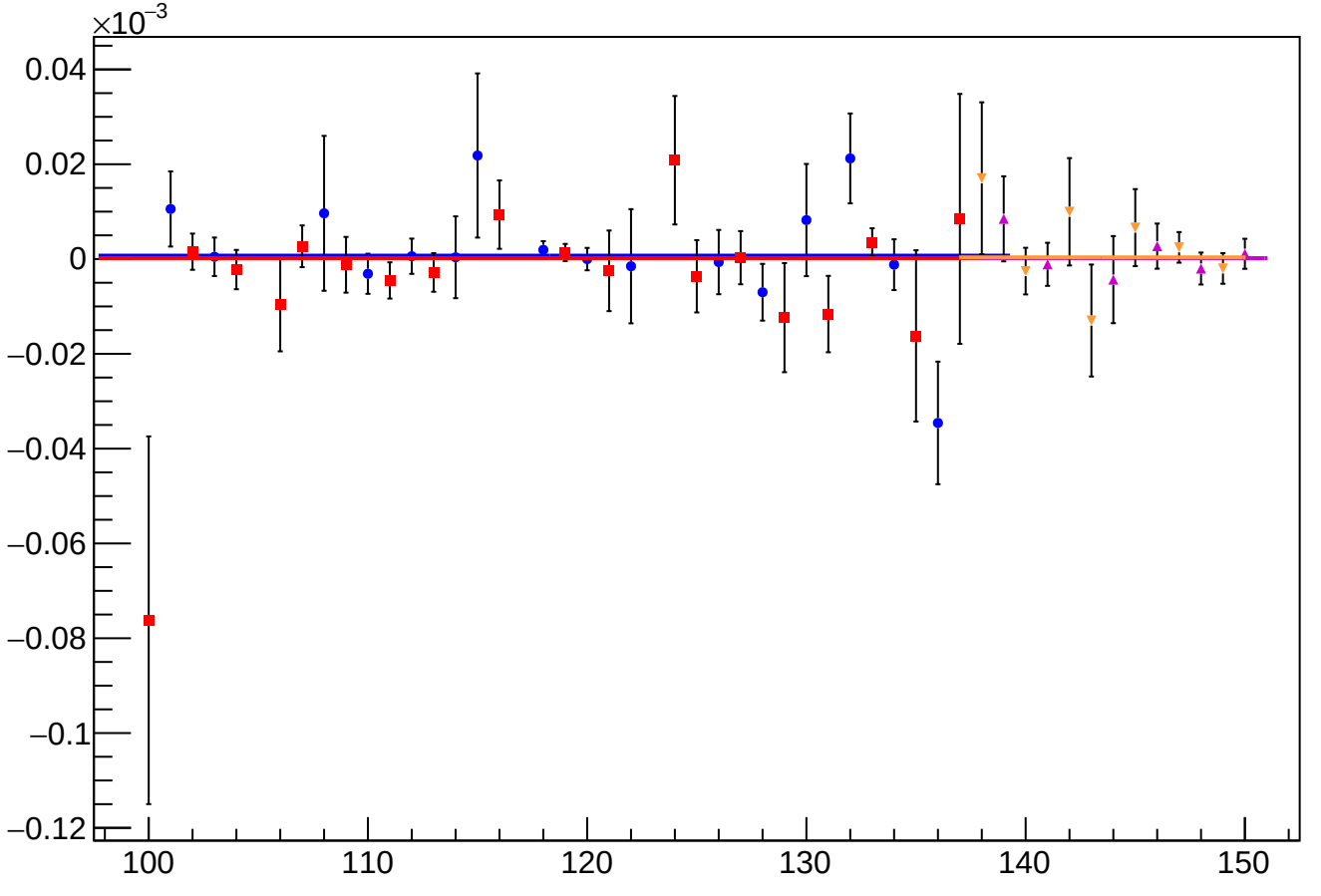
Left: 30.920+/-0.008 $\chi^2$/NDF: 2413636.1/12

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793023.5/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931765.7/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753771.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/12

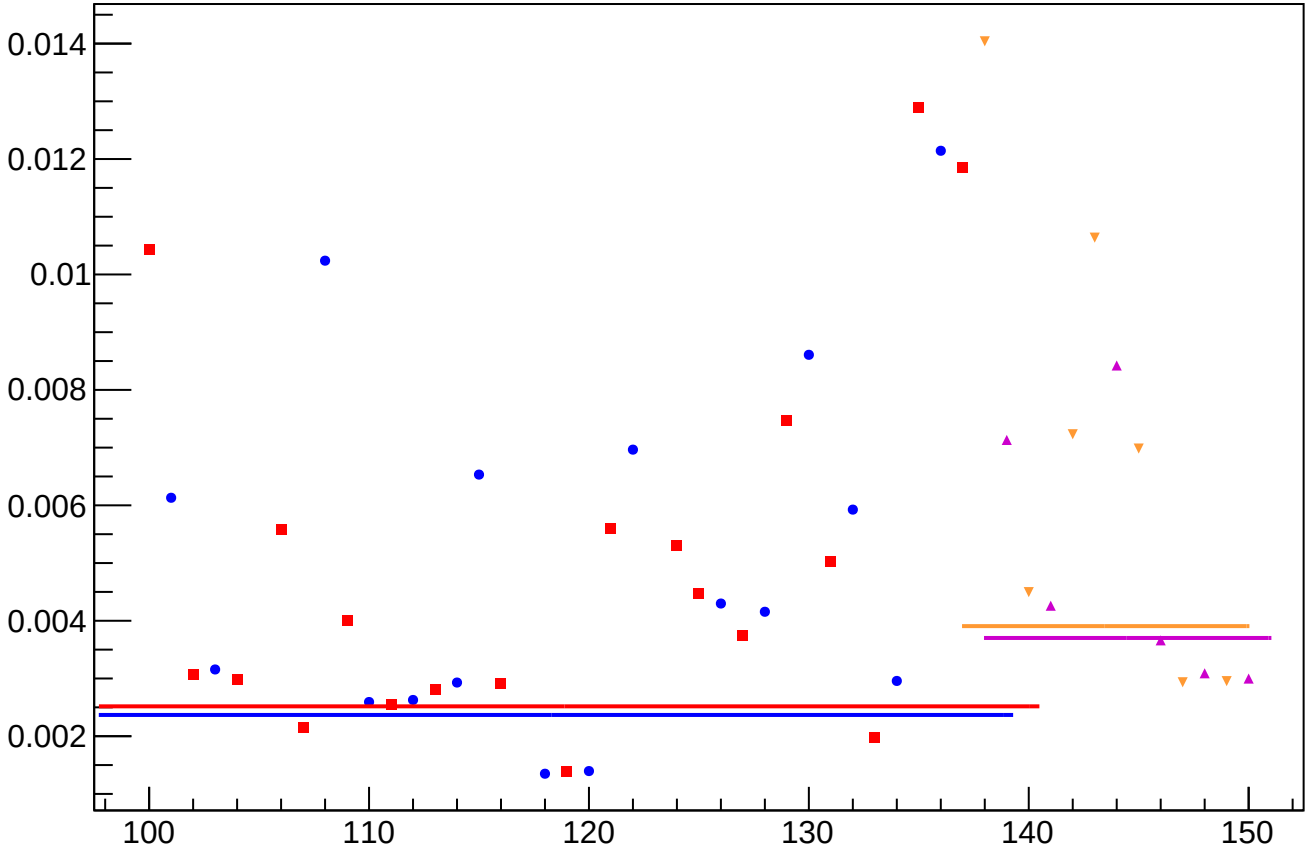
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.2/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2291573.9/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1015003.0/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 3318550.8/12

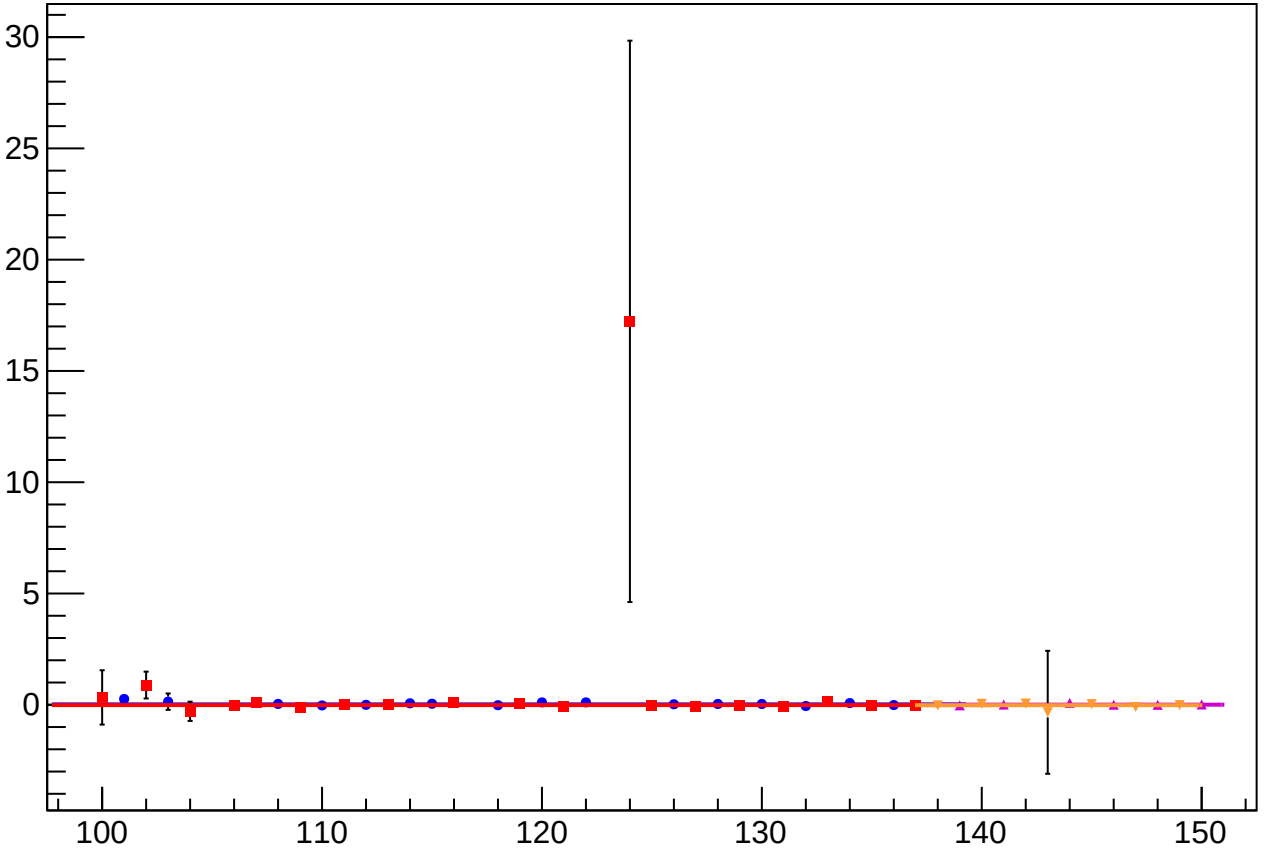
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:6525395.3/21

Out: 0.003+/-0.000 $\chi^2$/NDF:6480966.1/25

All: 0.003+/-0.000 $\chi^2$/NDF: 13020078.8/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

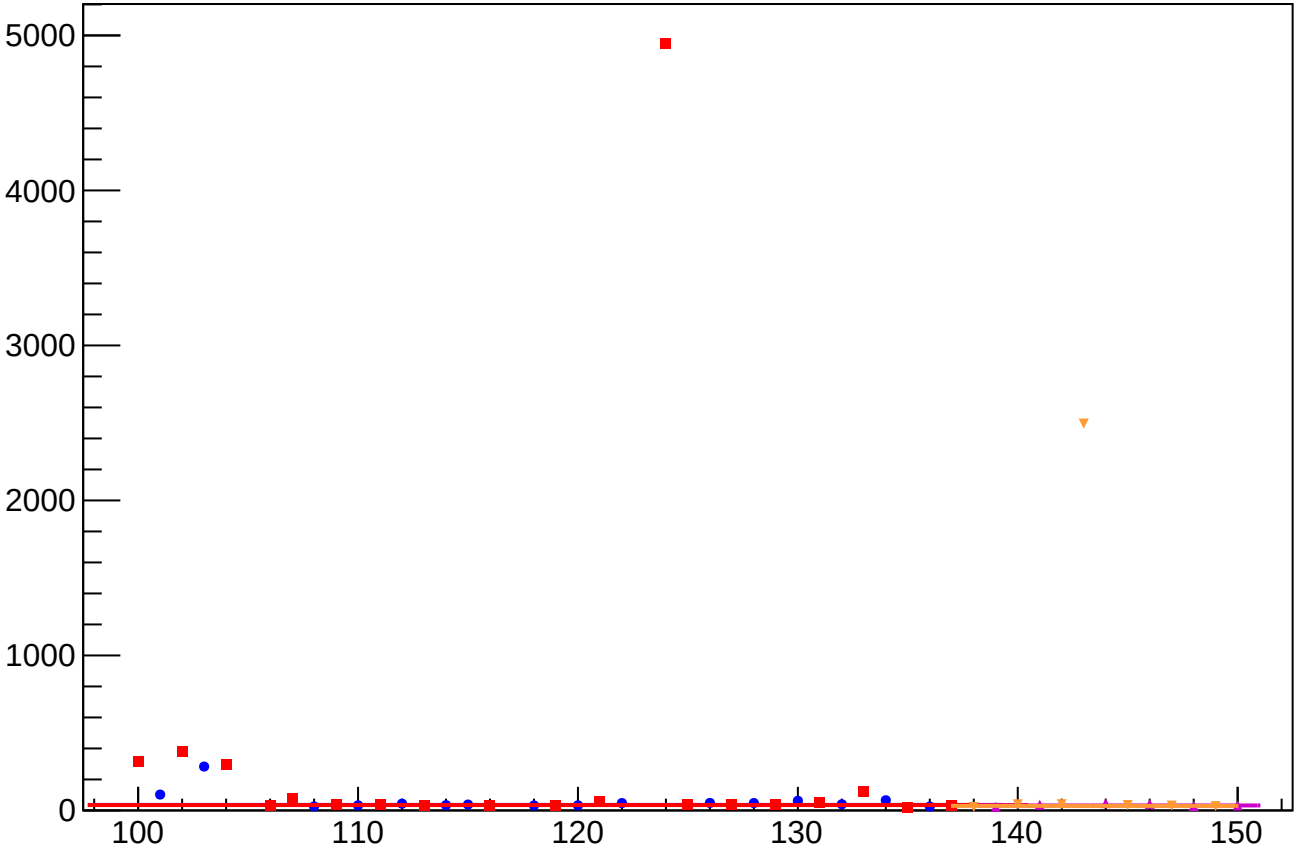
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905956.4/6

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.271+/-0.011 $\chi^2$/NDF:478805.4/5

Left: 30.918+/-0.008 $\chi^2$/NDF: 2414112.9/12

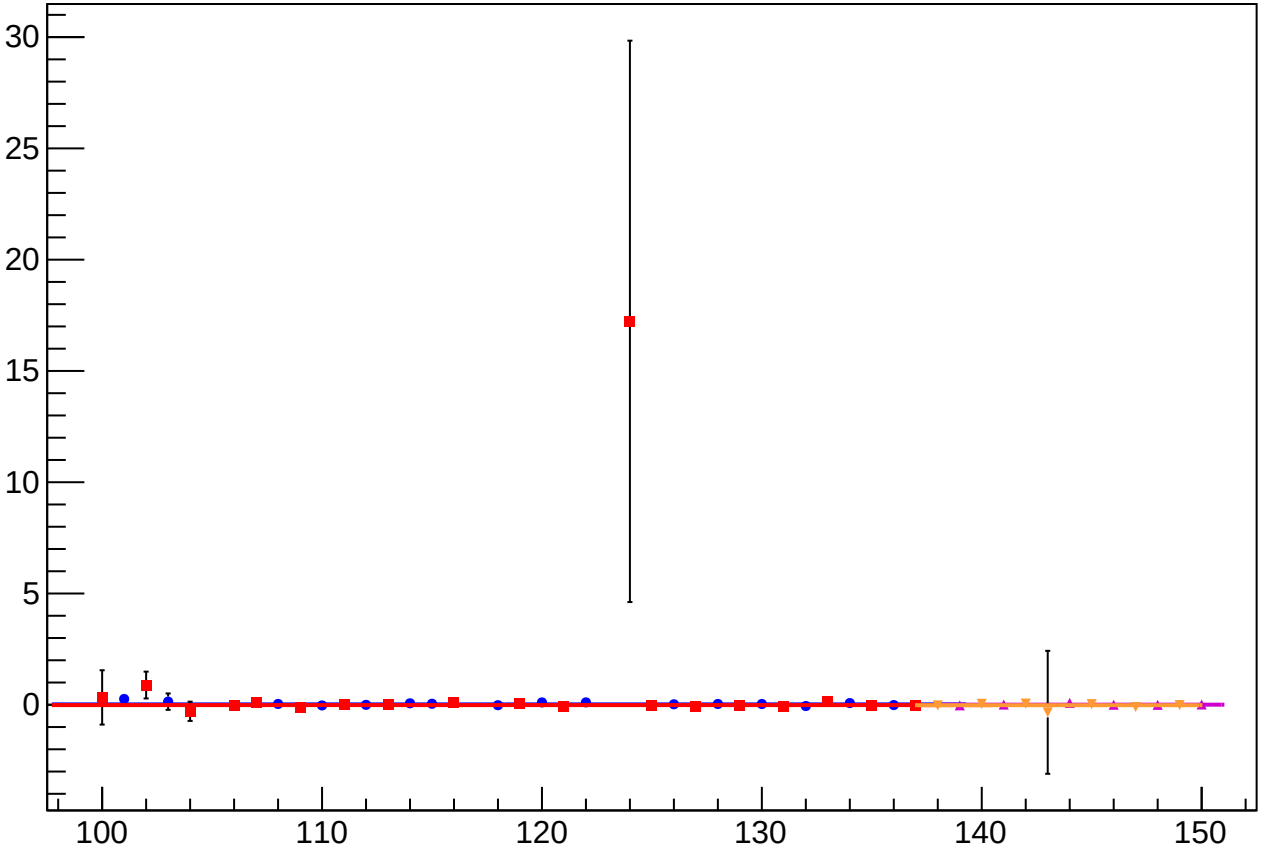
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.030+/-0.008 $\chi^2$/NDF:2793187.9/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931860.3/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753999.0/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.019+/-0.015 $\chi^2$/NDF:9.2/6

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.005+/-0.016 $\chi^2$/NDF:3.5/5

Left: -0.007+/-0.011 $\chi^2$/NDF: 13.9/12

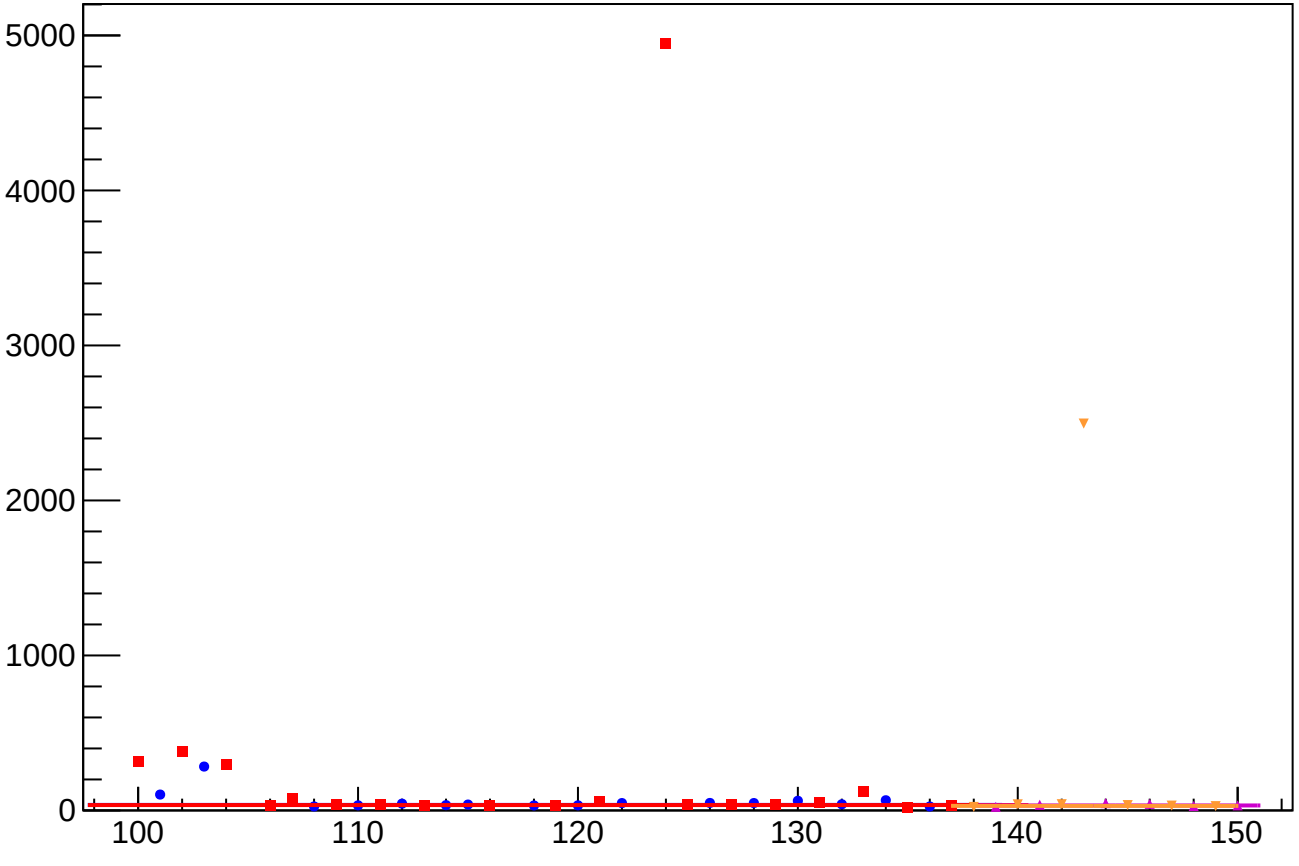
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.011+/-0.011 $\chi^2$/NDF:15.3/21

Out: -0.016+/-0.011 $\chi^2$/NDF:25.3/25

All: -0.003+/-0.008 $\chi^2$/NDF: 43.7/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 29.615+/-0.011 $\chi^2$/NDF:1905956.4/6

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.271+/-0.011 $\chi^2$/NDF:478805.4/5

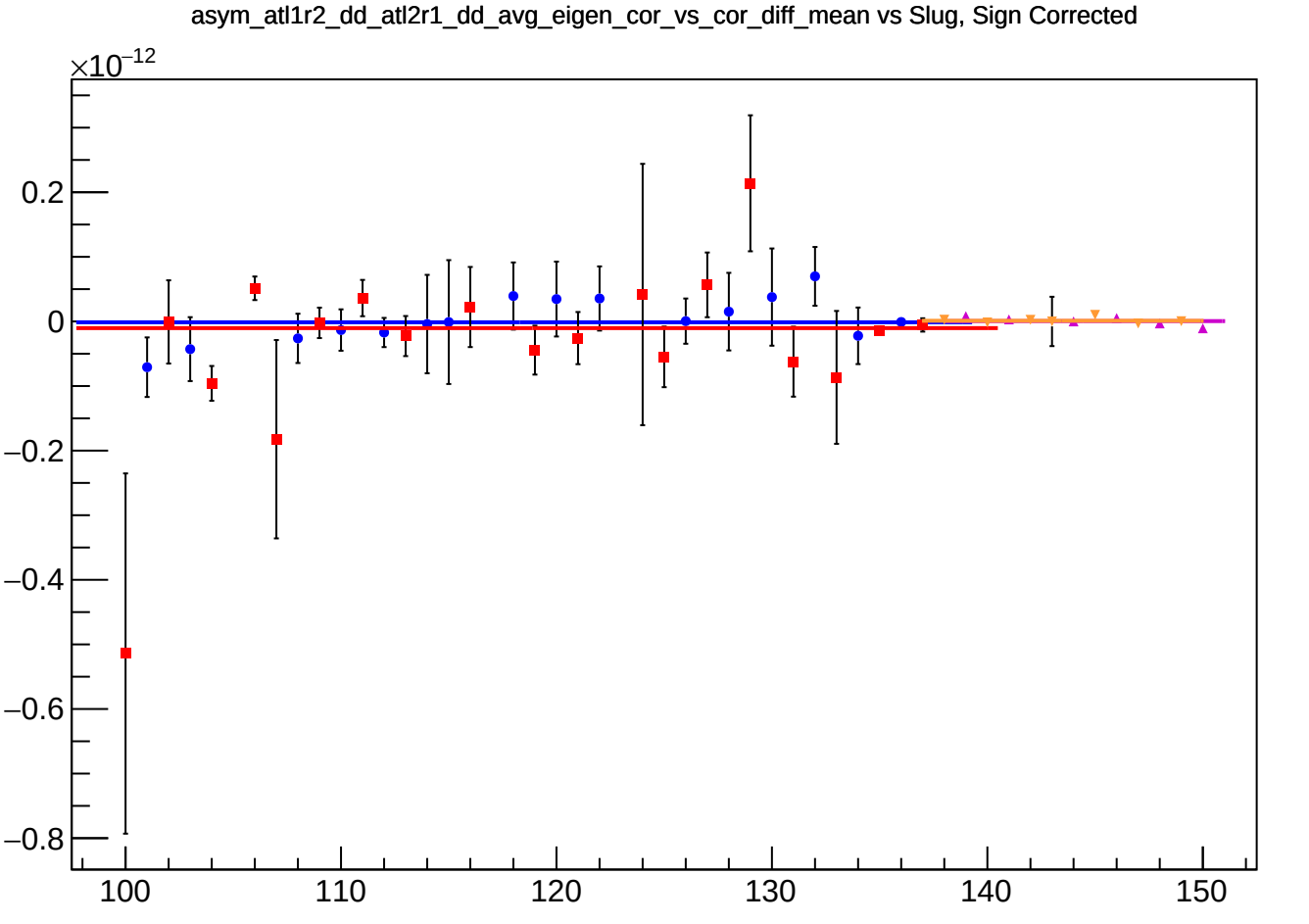
Left: 30.918+/-0.008 $\chi^2$/NDF: 2414112.9/12

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

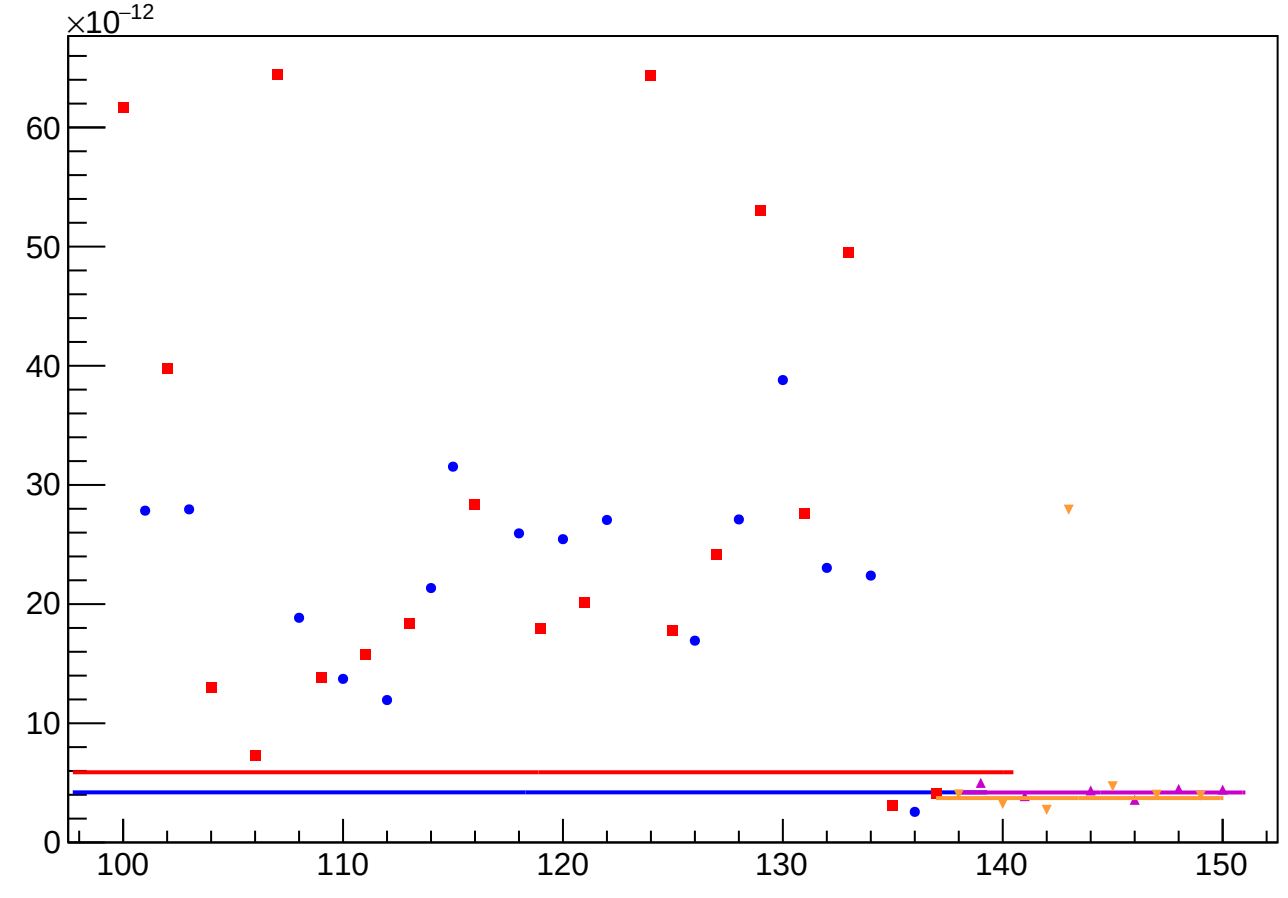
In: 34.030+/-0.008 $\chi^2$/NDF:2793187.9/21

Out: 32.163+/-0.008 $\chi^2$/NDF:4931860.3/25

All: 33.093+/-0.005 $\chi^2$/NDF: 7753999.0/47


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0
−0.2
−0.4
−0.6
−0.8
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 8.6/15
Left Out: 0.000+/-0.000 χ²/NDF:3.3/6
Right Out: -0.000+/-0.000 χ²/NDF: 39.9/18
Left In: 0.000+/-0.000 χ²/NDF:7.3/5
Left: 0.000+/-0.000 χ²/NDF: 10.6/12
Right: -0.000+/-0.000 χ²/NDF: 51.3/34
In: -0.000+/-0.000 χ²/NDF:16.1/21
Out: -0.000+/-0.000 χ²/NDF:49.0/25
All: -0.000+/-0.000 χ²/NDF: 65.4/47

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5080225.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:970806.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4860861.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:81514.2/5

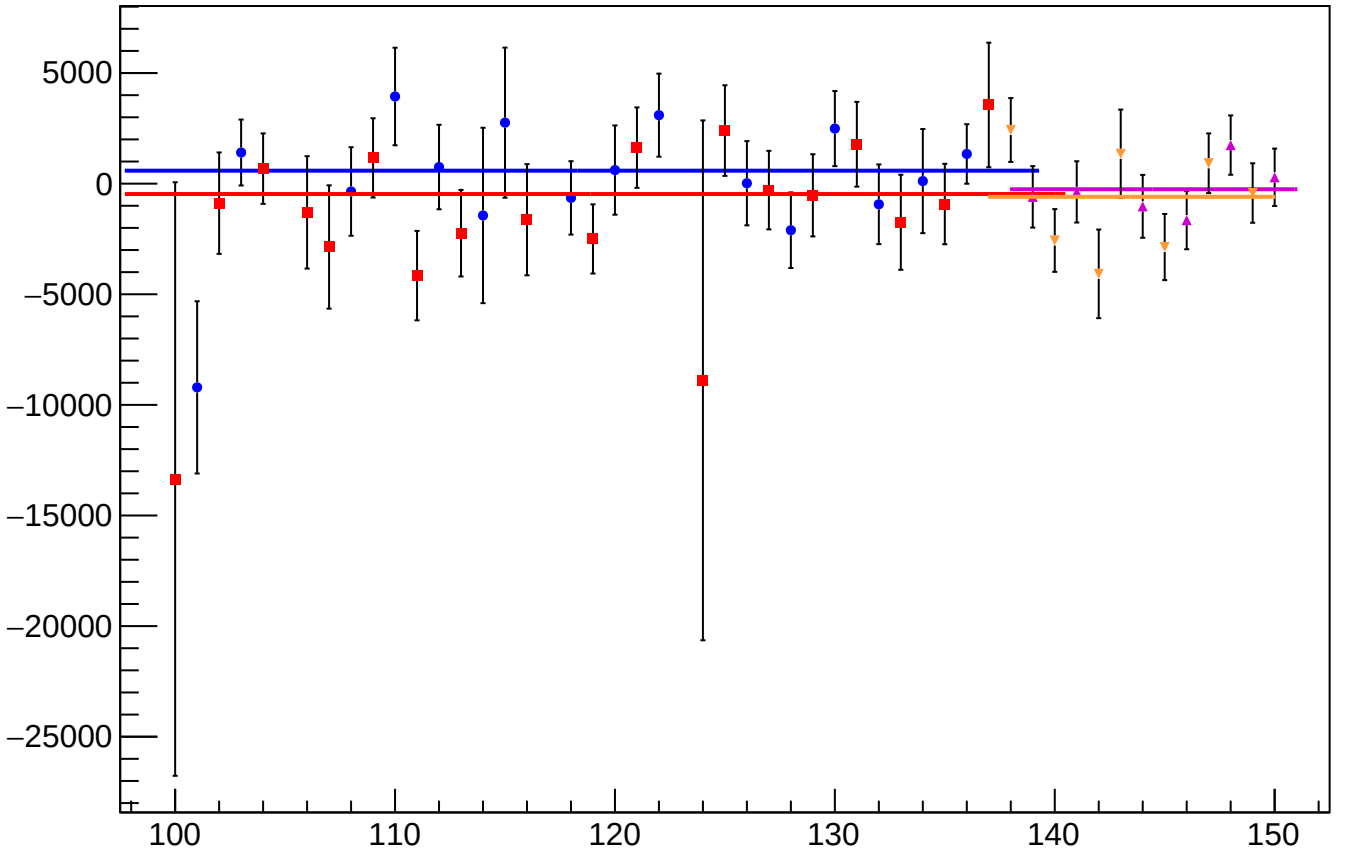
Left: 0.000+/-0.000 $\chi^2$/NDF: 1099875.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 10135954.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:5161756.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6262272.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11424486.8/47




Right In: 586.935+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.369+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -469.012+/-480.516 $\chi^2$/NDF: 16.9/18

Left In: -252.912+/-553.517 $\chi^2$/NDF:3.9/5

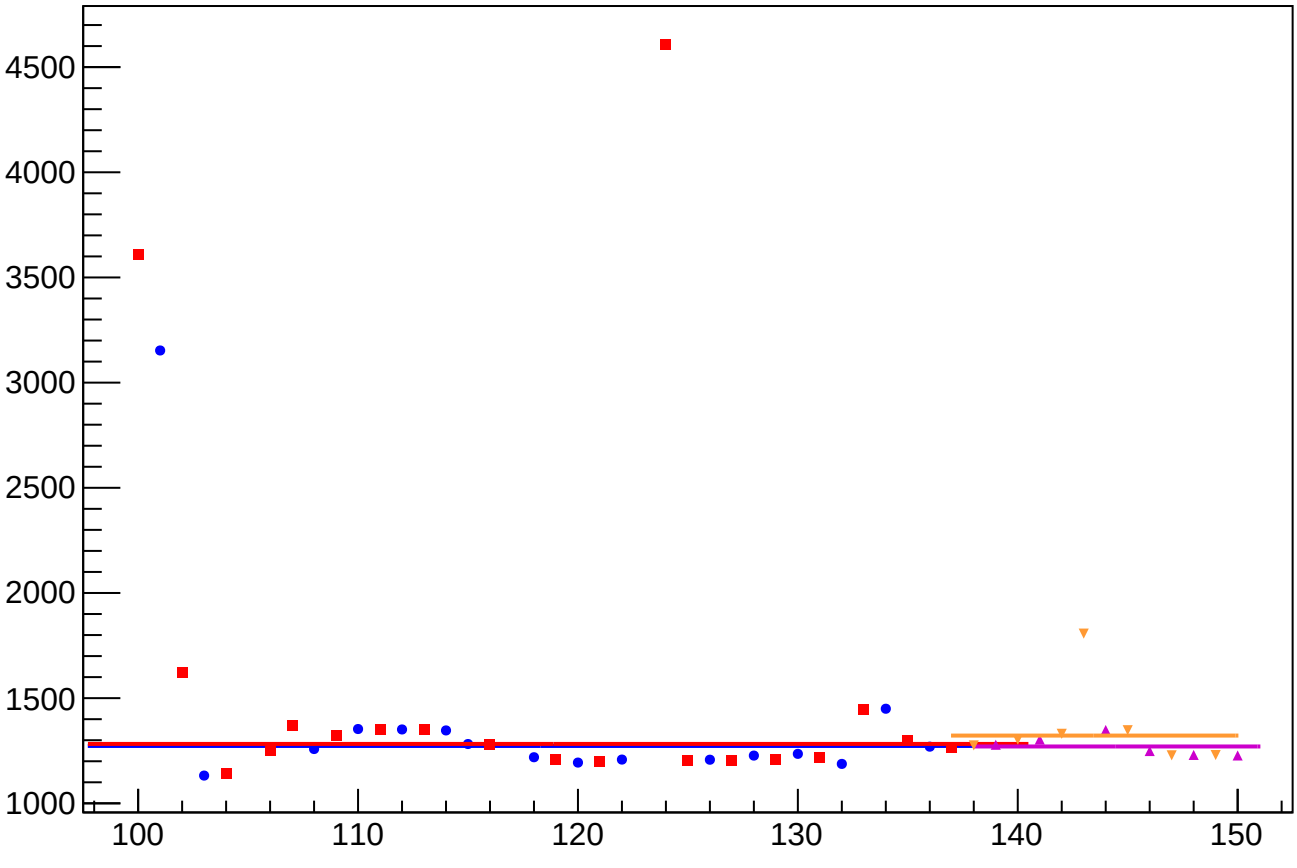
Left: -417.617+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 56.858+/-340.452 $\chi^2$/NDF: 36.3/34

In: 224.368+/-363.684 $\chi^2$/NDF:22.3/21

Out: -520.968+/-368.722 $\chi^2$/NDF:30.7/25

All: -143.173+/-258.926 $\chi^2$/NDF: 55.1/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

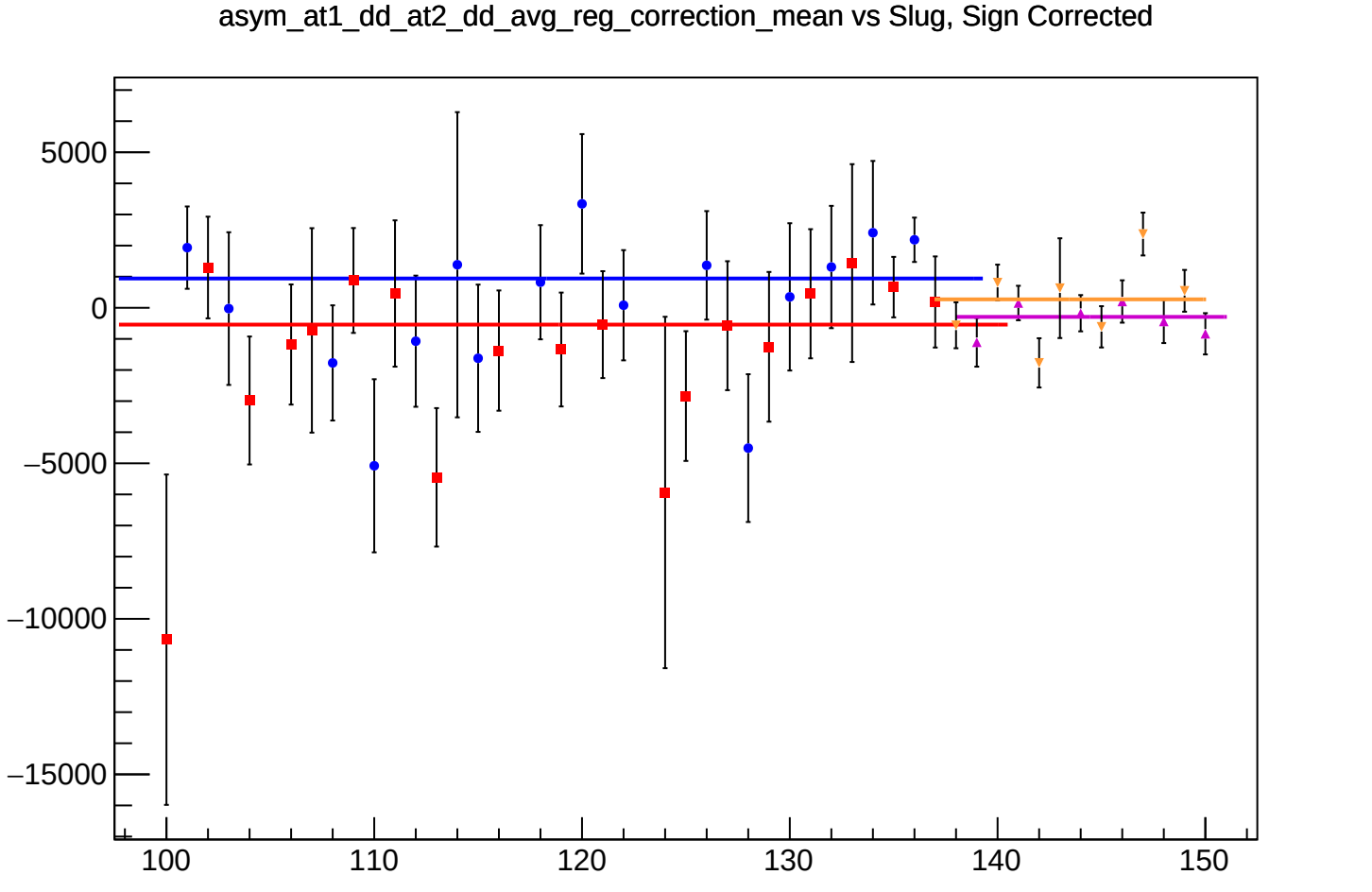
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531113.9/21

Out: 1298.699+/-0.261 $\chi^2$/NDF:467410.4/25

All: 1285.021+/-0.183 $\chi^2$/NDF: 1003954.3/47




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: 271.677+/-272.931 $\chi^2$/NDF:20.1/6

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -292.304+/-264.195 $\chi^2$/NDF:3.0/5

Left: -19.484+/-189.827 $\chi^2$/NDF: 25.3/12

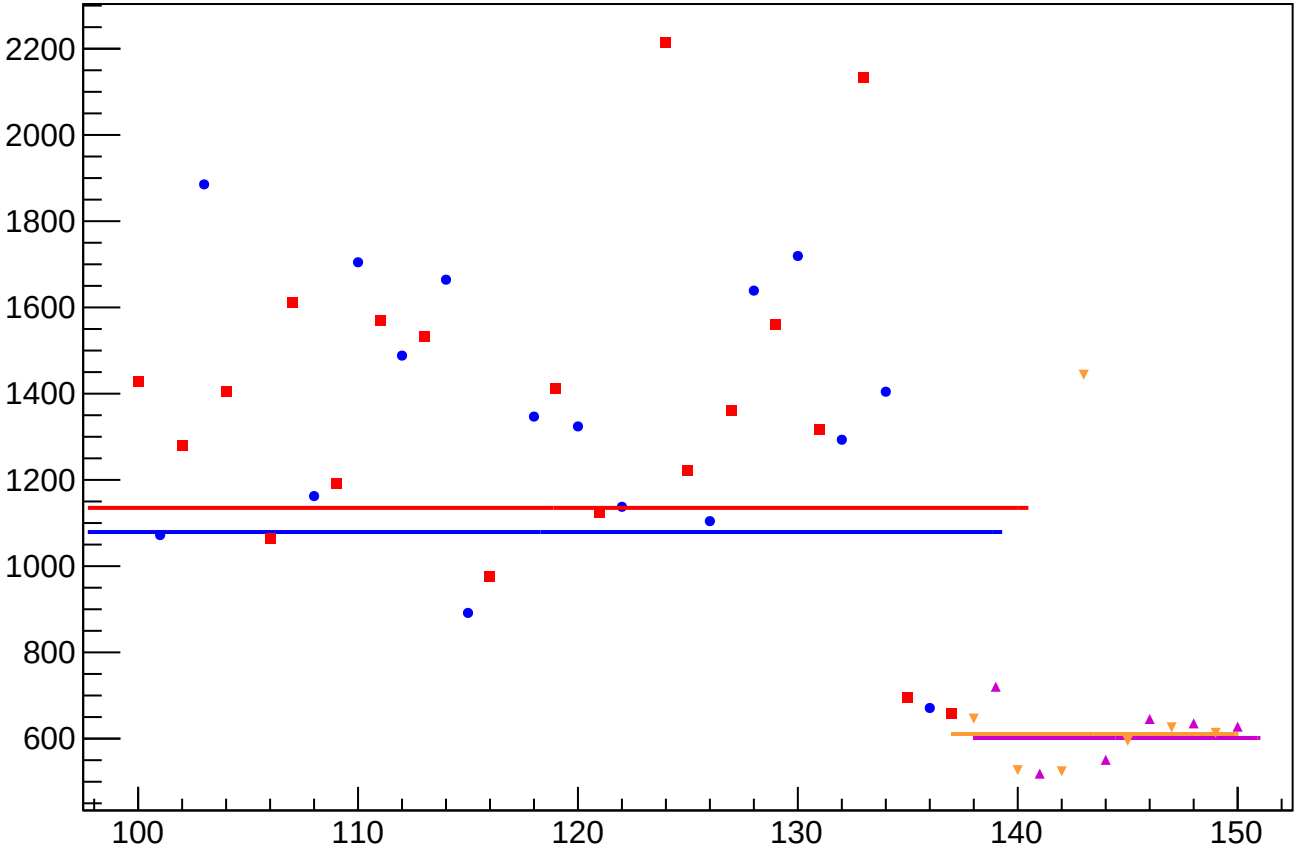
Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: 50.682+/-224.498 $\chi^2$/NDF:29.0/21

Out: 45.903+/-231.920 $\chi^2$/NDF:39.7/25

All: 48.370+/-161.304 $\chi^2$/NDF: 68.7/47

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 610.729+/-0.193 $\chi^2$/NDF:613238.9/6

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 601.520+/-0.187 $\chi^2$/NDF:121857.1/5

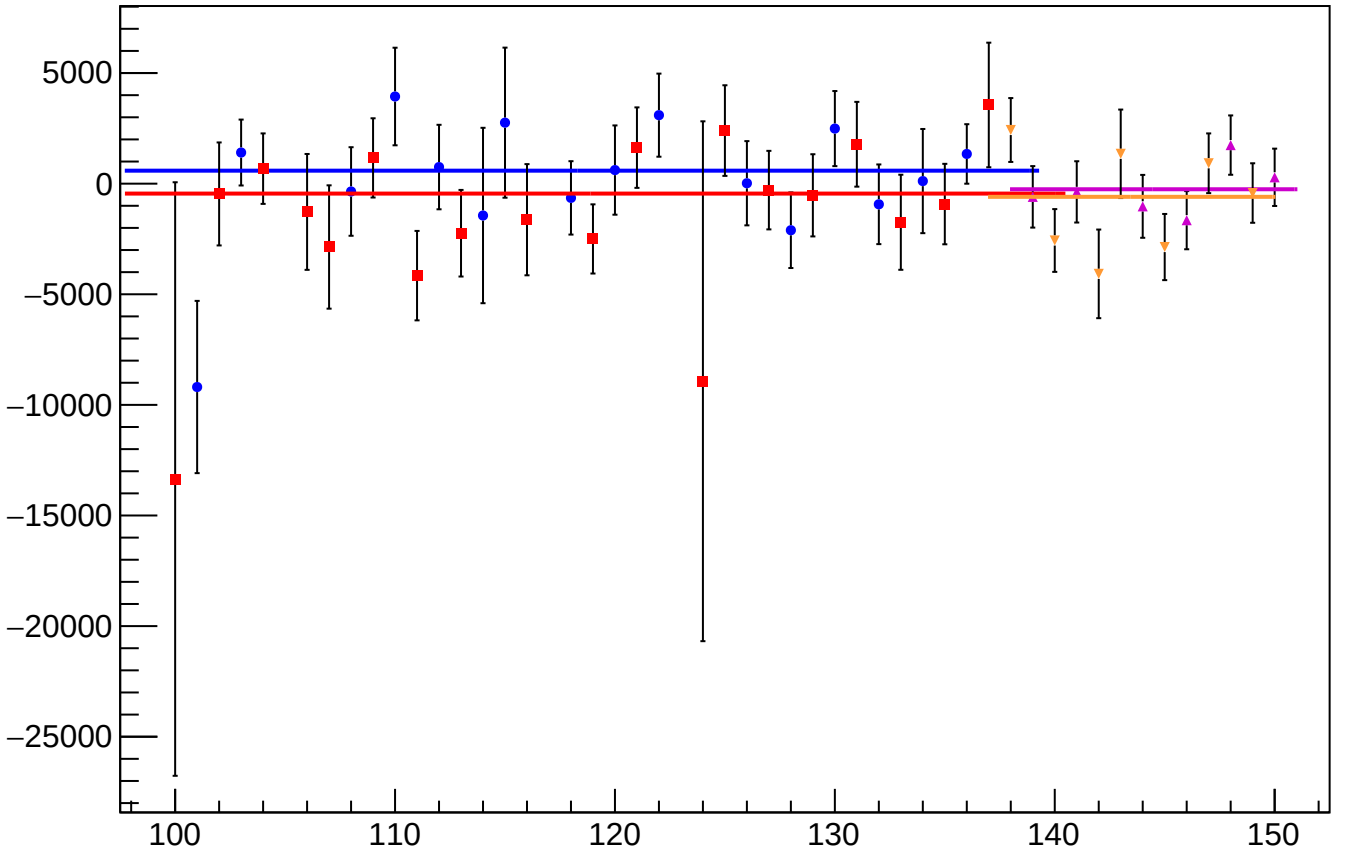
Left: 605.974+/-0.134 $\chi^2$/NDF: 736271.5/12

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 734.260+/-0.159 $\chi^2$/NDF:3420650.0/21

Out: 756.492+/-0.164 $\chi^2$/NDF:3958718.4/25

All: 745.015+/-0.114 $\chi^2$/NDF: 7388856.2/47




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.426+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -252.908+/-553.517 $\chi^2$/NDF:3.9/5

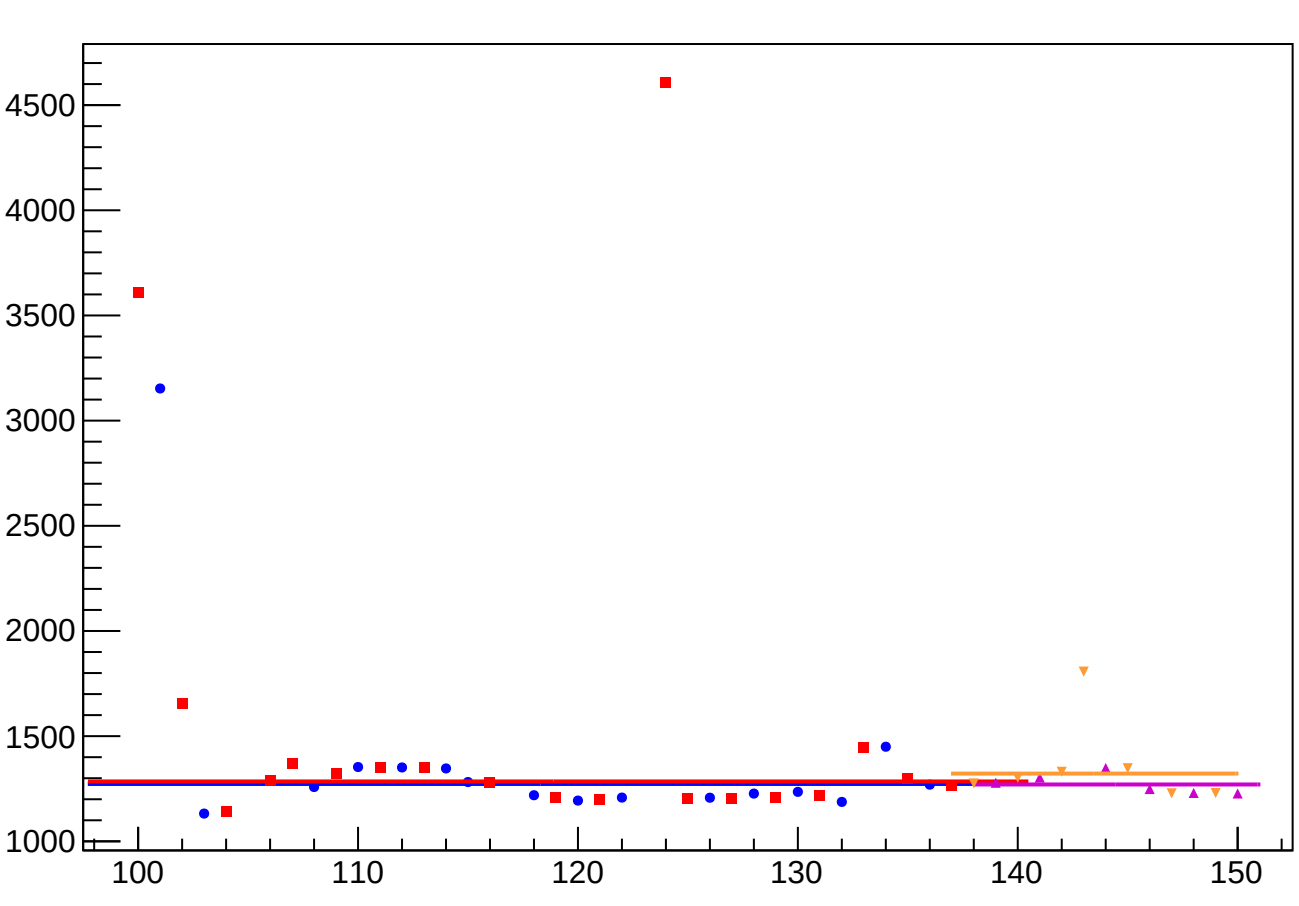
Left: -417.643+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 224.552+/-363.684 $\chi^2$/NDF:22.2/21

Out: -508.982+/-369.091 $\chi^2$/NDF:30.7/25

All: -136.803+/-259.054 $\chi^2$/NDF: 55.0/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

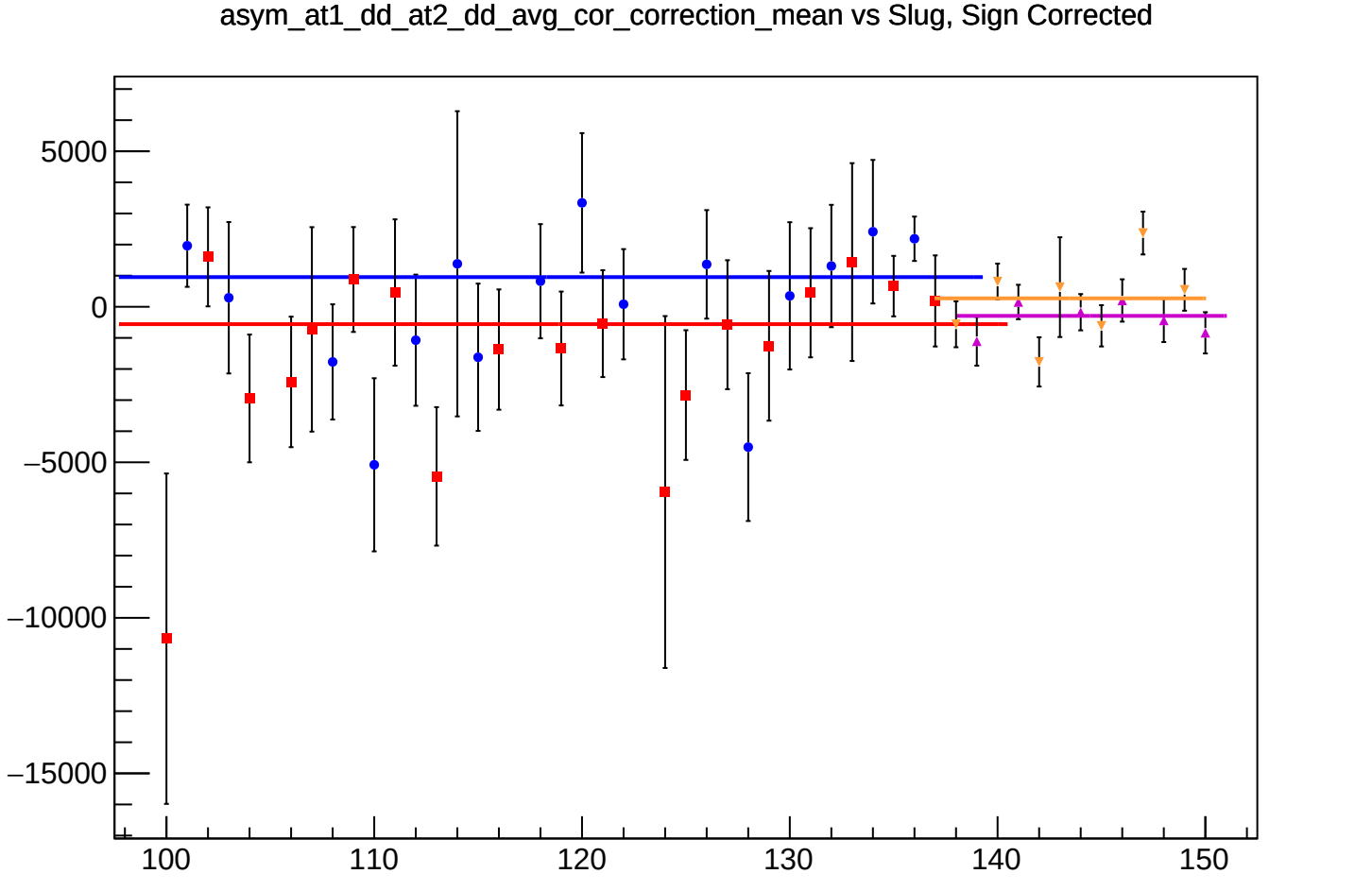
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531115.3/21

Out: 1300.078+/-0.261 $\chi^2$/NDF:473430.6/25

All: 1285.687+/-0.183 $\chi^2$/NDF: 1010538.9/47




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 271.653+/-272.936 $\chi^2$/NDF:20.1/6

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -292.399+/-264.193 $\chi^2$/NDF:3.0/5

Left: -19.552+/-189.828 $\chi^2$/NDF: 25.3/12

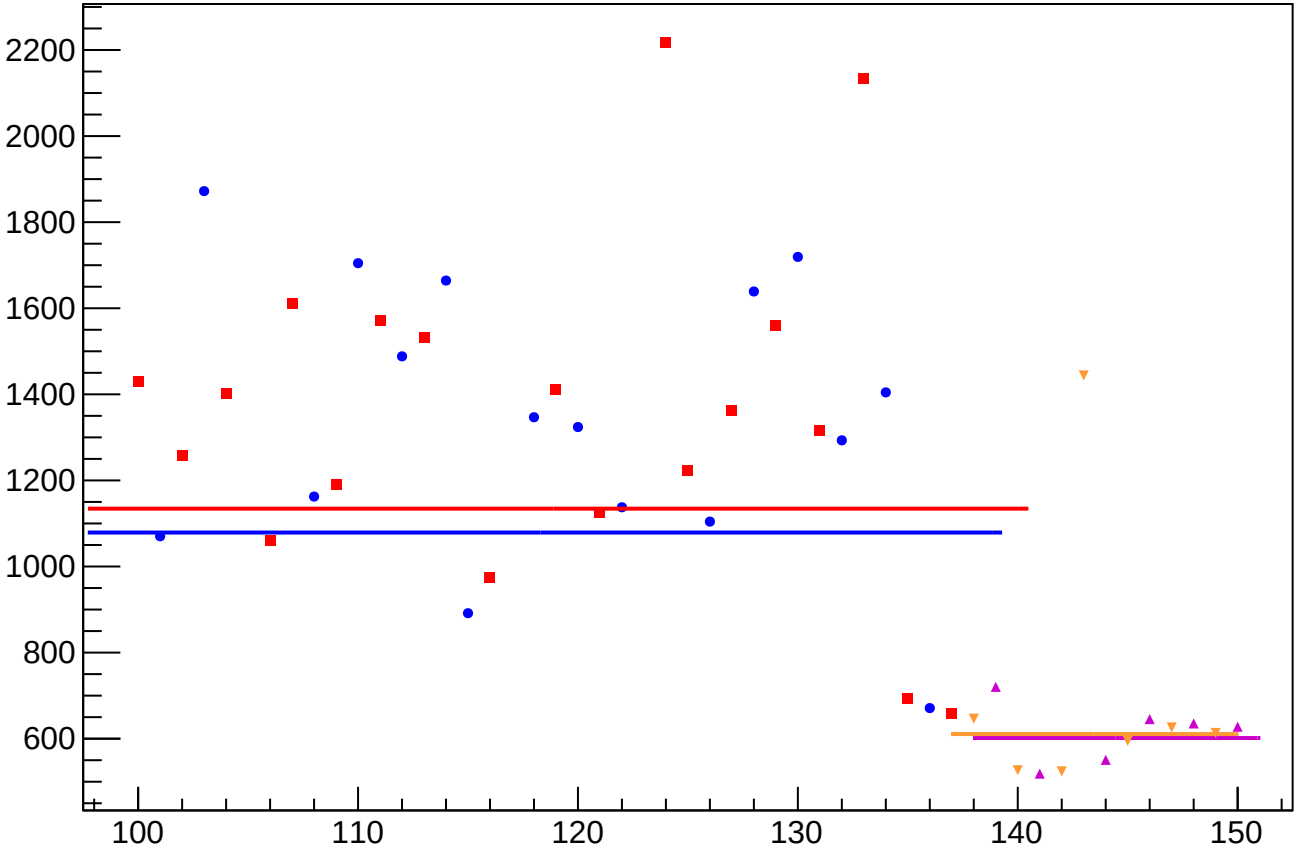
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 54.260+/-224.471 $\chi^2$/NDF:29.1/21

Out: 41.711+/-232.048 $\chi^2$/NDF:41.0/25

All: 48.194+/-161.337 $\chi^2$/NDF: 70.1/47

asym_at1_dd_at2_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 610.741+/-0.193 $\chi^2$/NDF:613184.3/6

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 601.515+/-0.187 $\chi^2$/NDF:121881.1/5

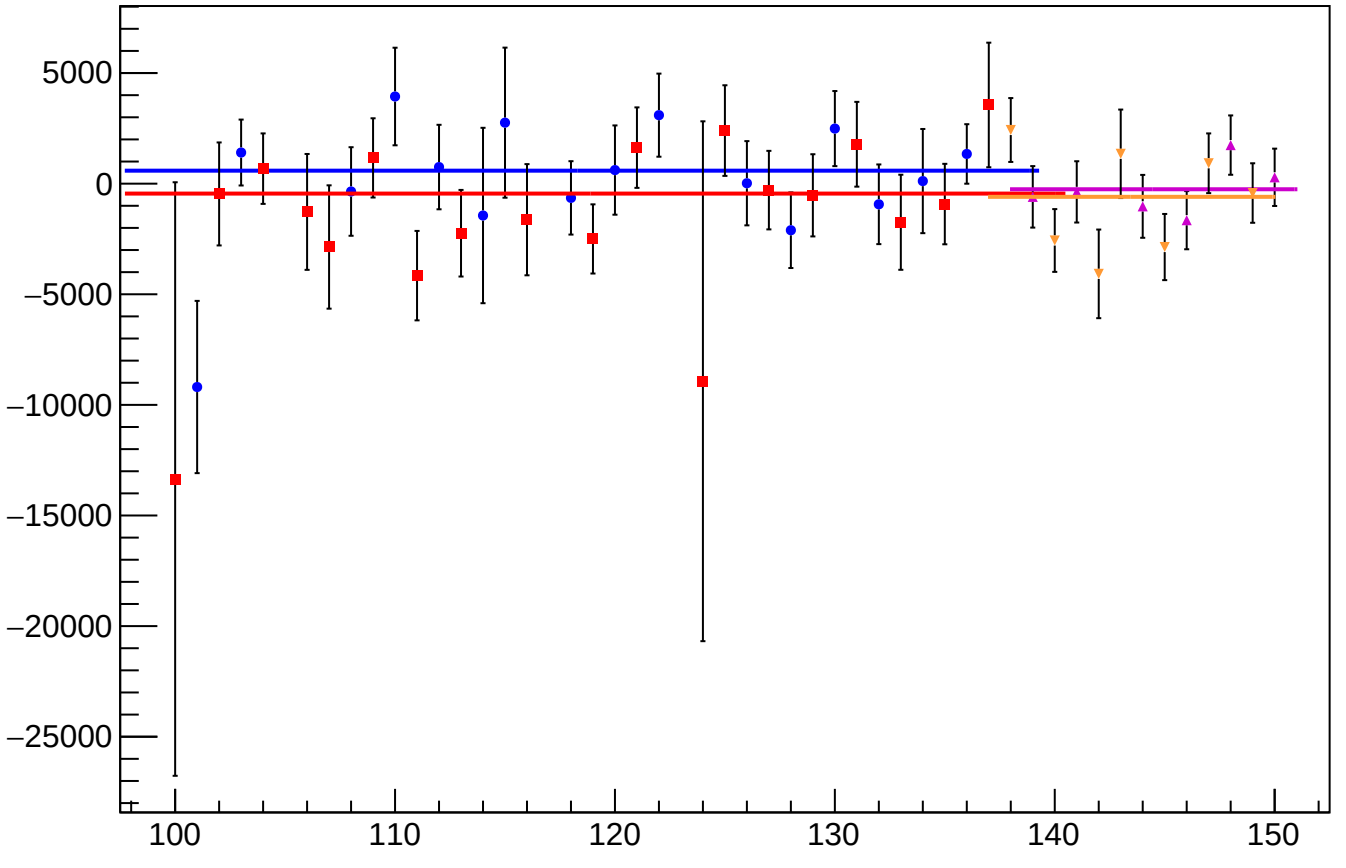
Left: 605.978+/-0.134 $\chi^2$/NDF: 736245.5/12

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 734.282+/-0.159 $\chi^2$/NDF:3416864.6/21

Out: 755.894+/-0.164 $\chi^2$/NDF:3942906.7/25

All: 744.730+/-0.114 $\chi^2$/NDF: 7368733.3/47




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -595.426+/-575.022 $\chi^2$/NDF:13.9/6

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -252.908+/-553.517 $\chi^2$/NDF:3.9/5

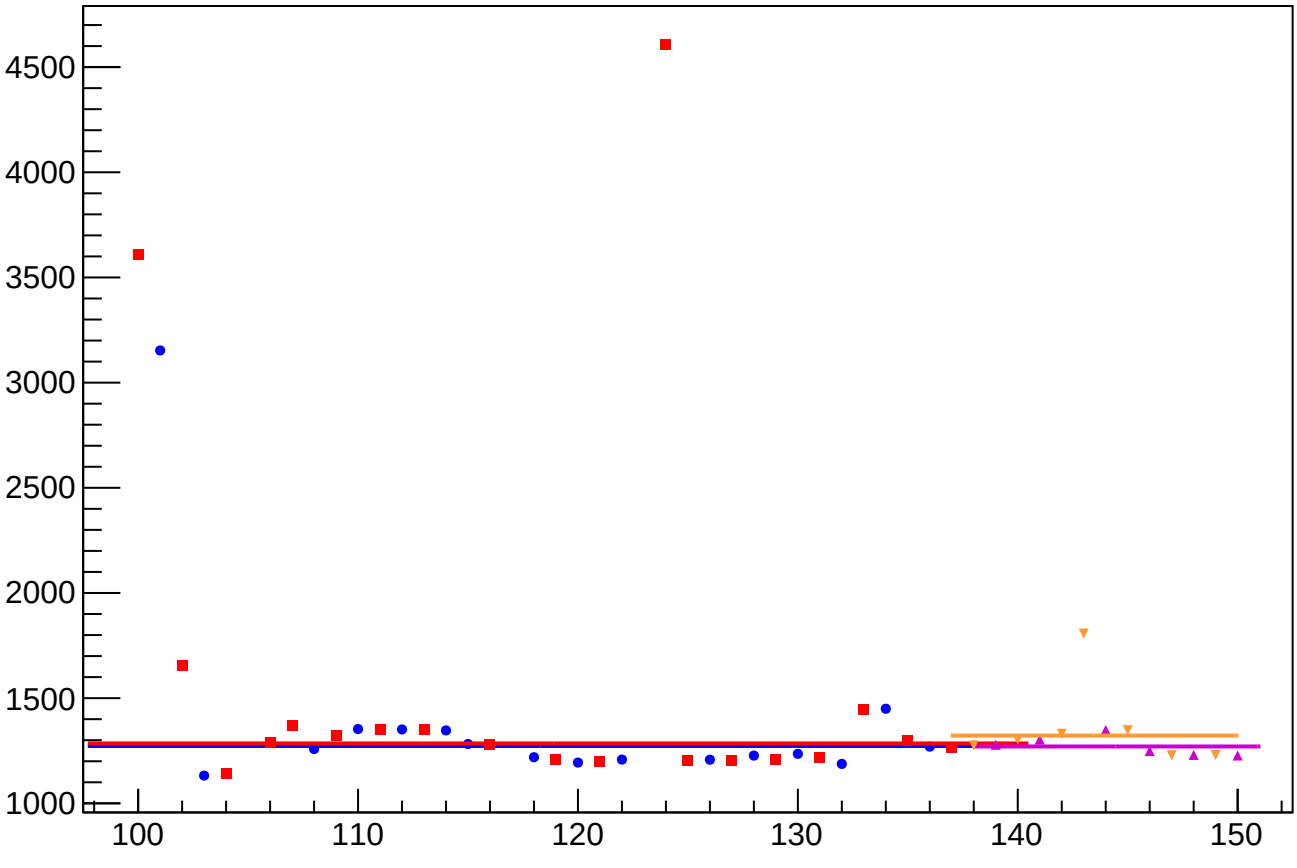
Left: -417.643+/-398.781 $\chi^2$/NDF: 17.9/12

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 224.552+/-363.684 $\chi^2$/NDF:22.2/21

Out: -508.982+/-369.091 $\chi^2$/NDF:30.7/25

All: -136.803+/-259.054 $\chi^2$/NDF: 55.0/47




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1322.091+/-0.407 $\chi^2$/NDF:139711.0/6

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1270.279+/-0.391 $\chi^2$/NDF:11792.1/5

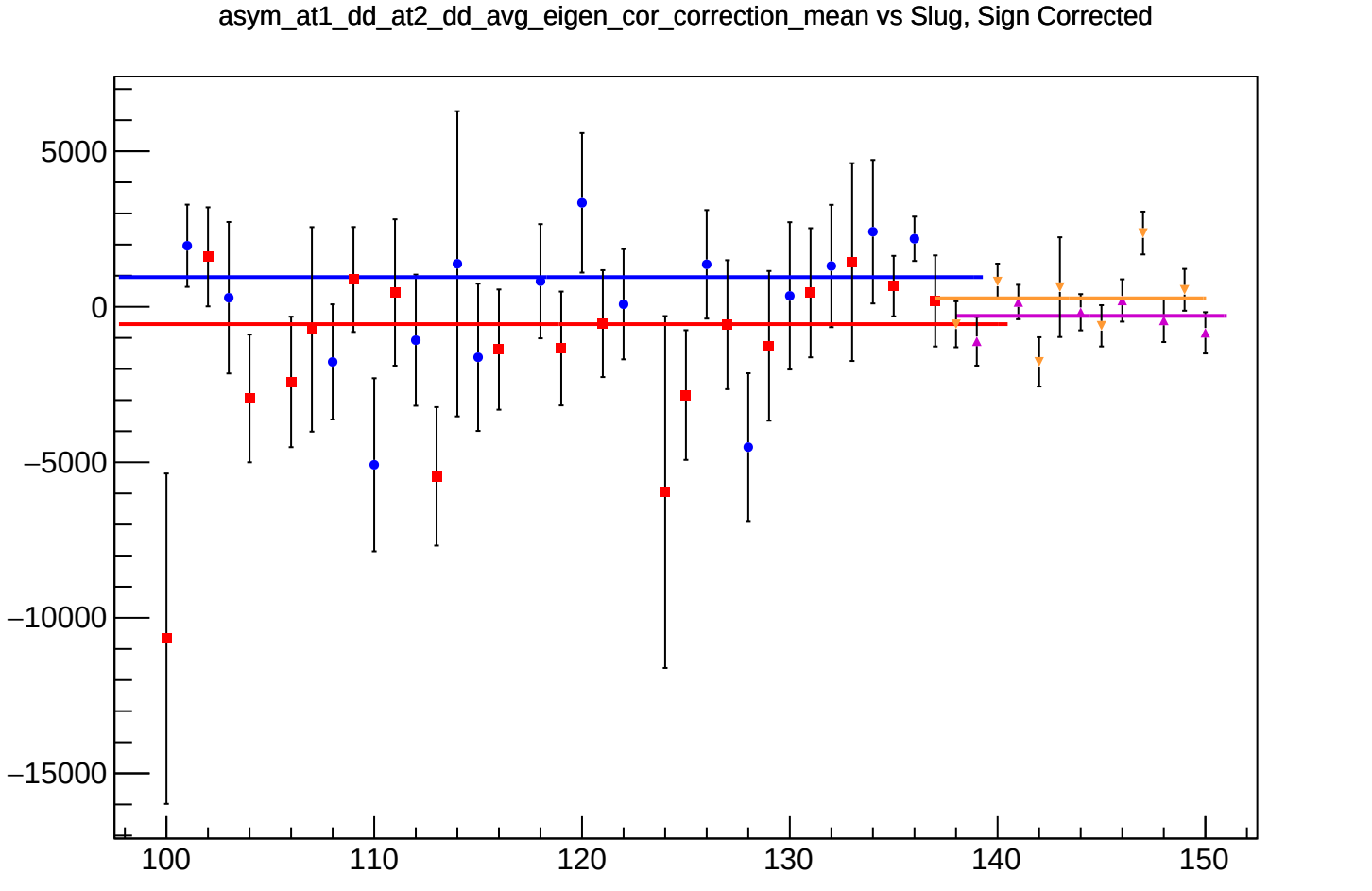
Left: 1295.198+/-0.282 $\chi^2$/NDF: 159931.3/12

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1271.714+/-0.257 $\chi^2$/NDF:531115.3/21

Out: 1300.078+/-0.261 $\chi^2$/NDF:473430.6/25

All: 1285.687+/-0.183 $\chi^2$/NDF: 1010538.9/47




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 271.653+/-272.936 $\chi^2$/NDF:20.1/6

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -292.399+/-264.193 $\chi^2$/NDF:3.0/5

Left: -19.552+/-189.828 $\chi^2$/NDF: 25.3/12

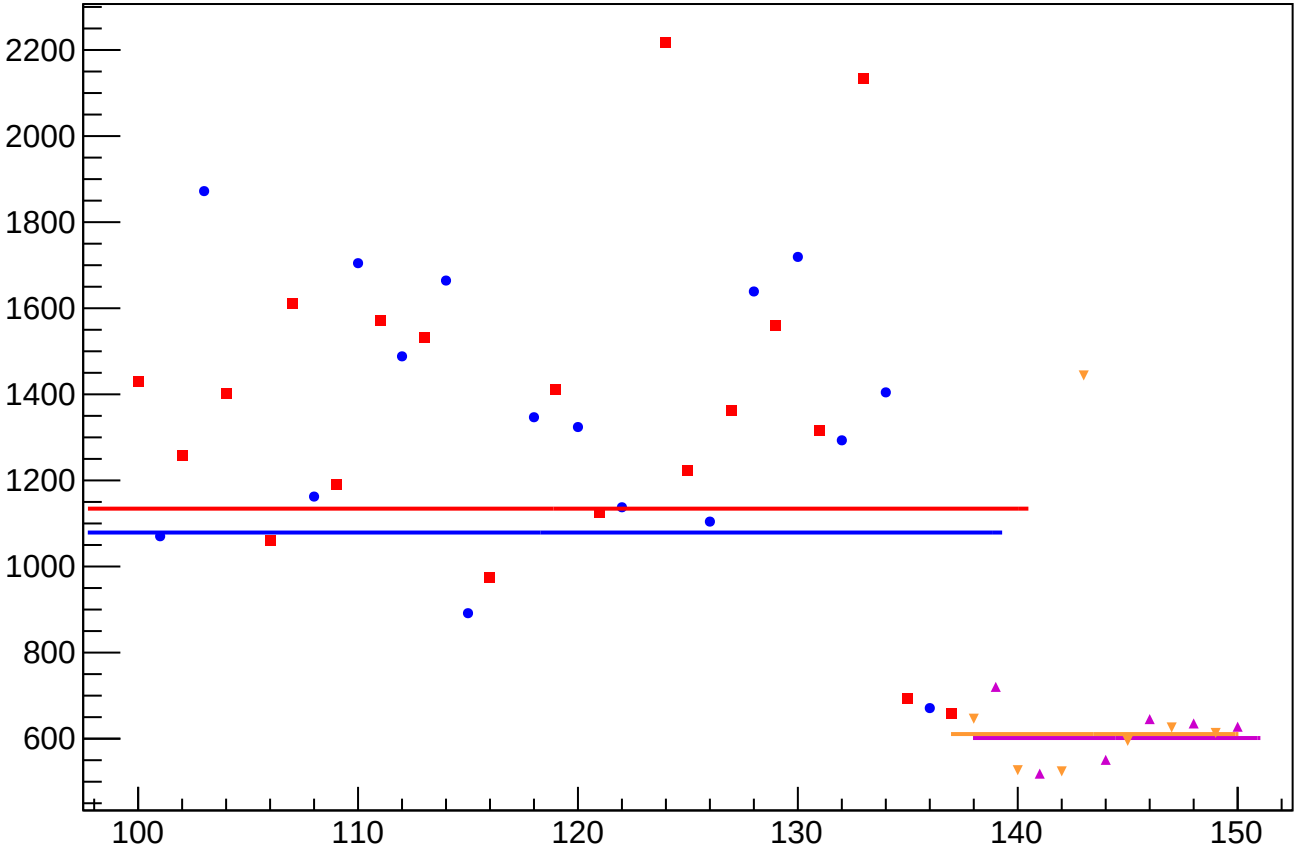
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 54.260+/-224.471 $\chi^2$/NDF:29.1/21

Out: 41.711+/-232.048 $\chi^2$/NDF:41.0/25

All: 48.194+/-161.337 $\chi^2$/NDF: 70.1/47

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 610.741+/-0.193 $\chi^2$/NDF:613184.3/6

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 601.515+/-0.187 $\chi^2$/NDF:121881.1/5

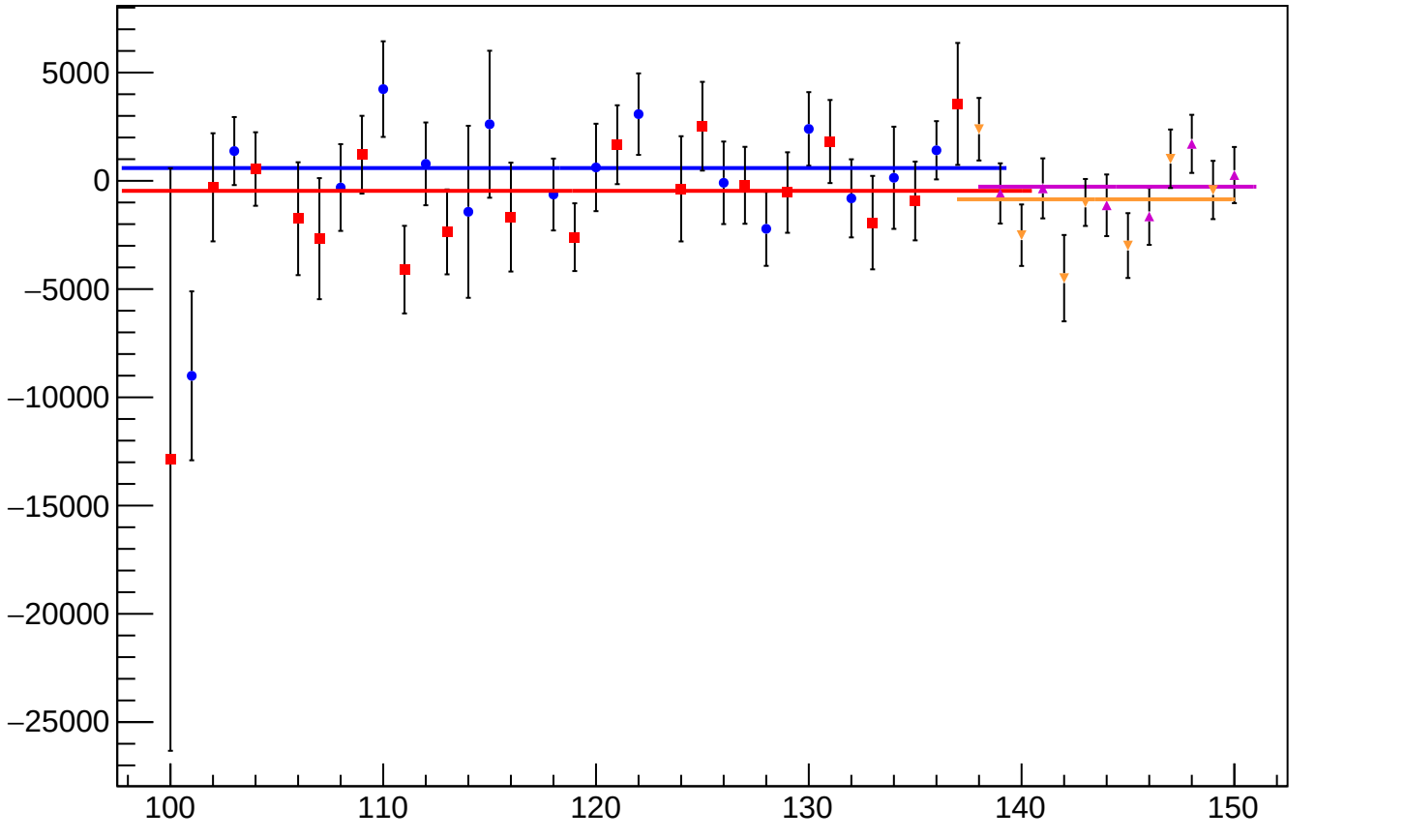
Left: 605.978+/-0.134 $\chi^2$/NDF: 736245.5/12

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 734.282+/-0.159 $\chi^2$/NDF:3416864.6/21

Out: 755.894+/-0.164 $\chi^2$/NDF:3942906.7/25

All: 744.730+/-0.114 $\chi^2$/NDF: 7368733.3/47




Right In: 590.322+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -853.275+/-525.291 $\chi^2$/NDF:13.8/6

Right Out: -462.606+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -270.724+/-553.947 $\chi^2$/NDF:3.8/5

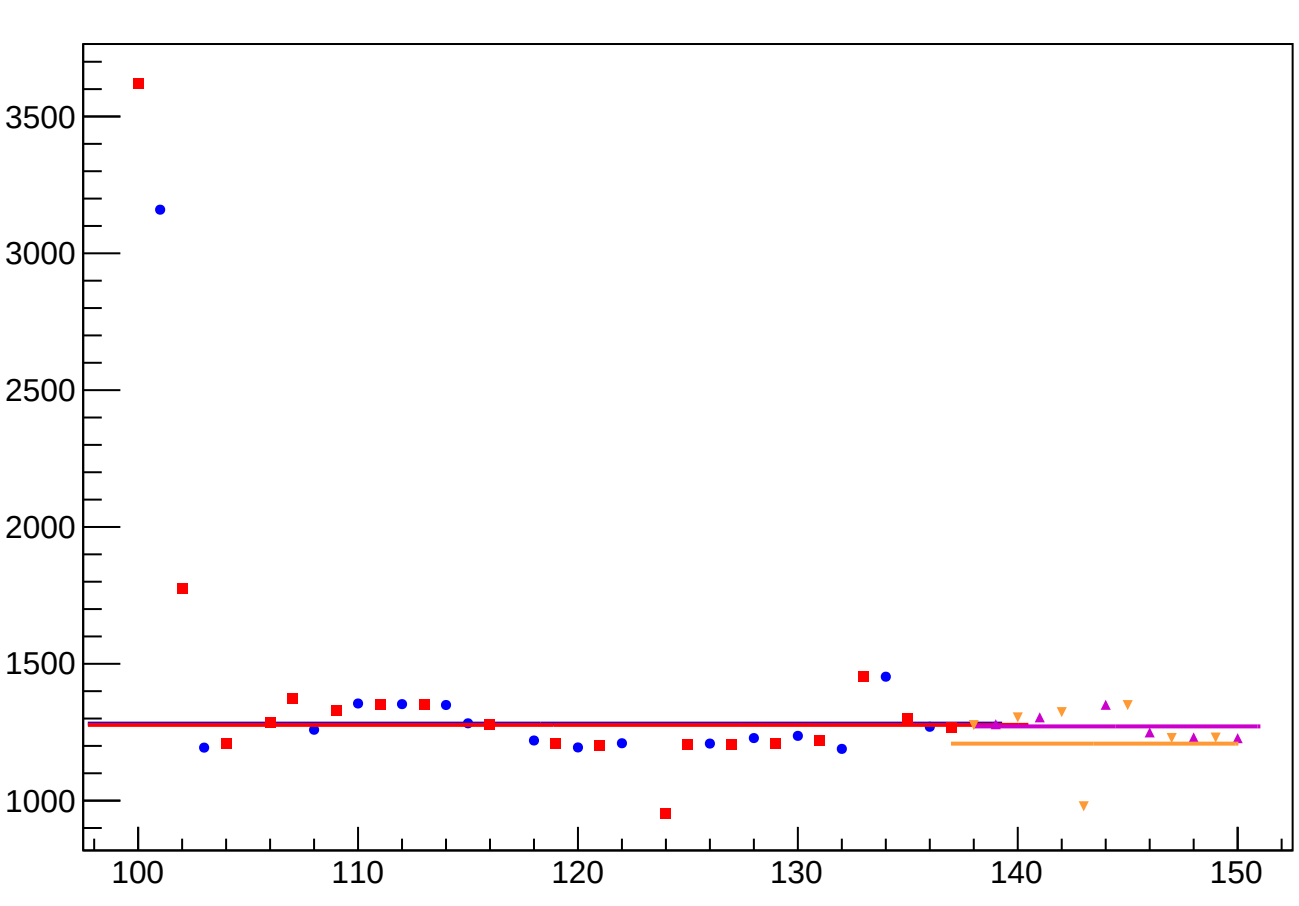
Left: -577.456+/-381.165 $\chi^2$/NDF: 18.2/12

Right: 54.353+/-340.175 $\chi^2$/NDF: 36.2/34

In: 216.269+/-365.108 $\chi^2$/NDF:22.3/21

Out: -639.078+/-353.048 $\chi^2$/NDF:30.8/25

All: -225.765+/-253.799 $\chi^2$/NDF: 56.0/47




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1208.314+/-0.371 $\chi^2$/NDF:128094.1/6

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1271.256+/-0.392 $\chi^2$/NDF:11928.1/5

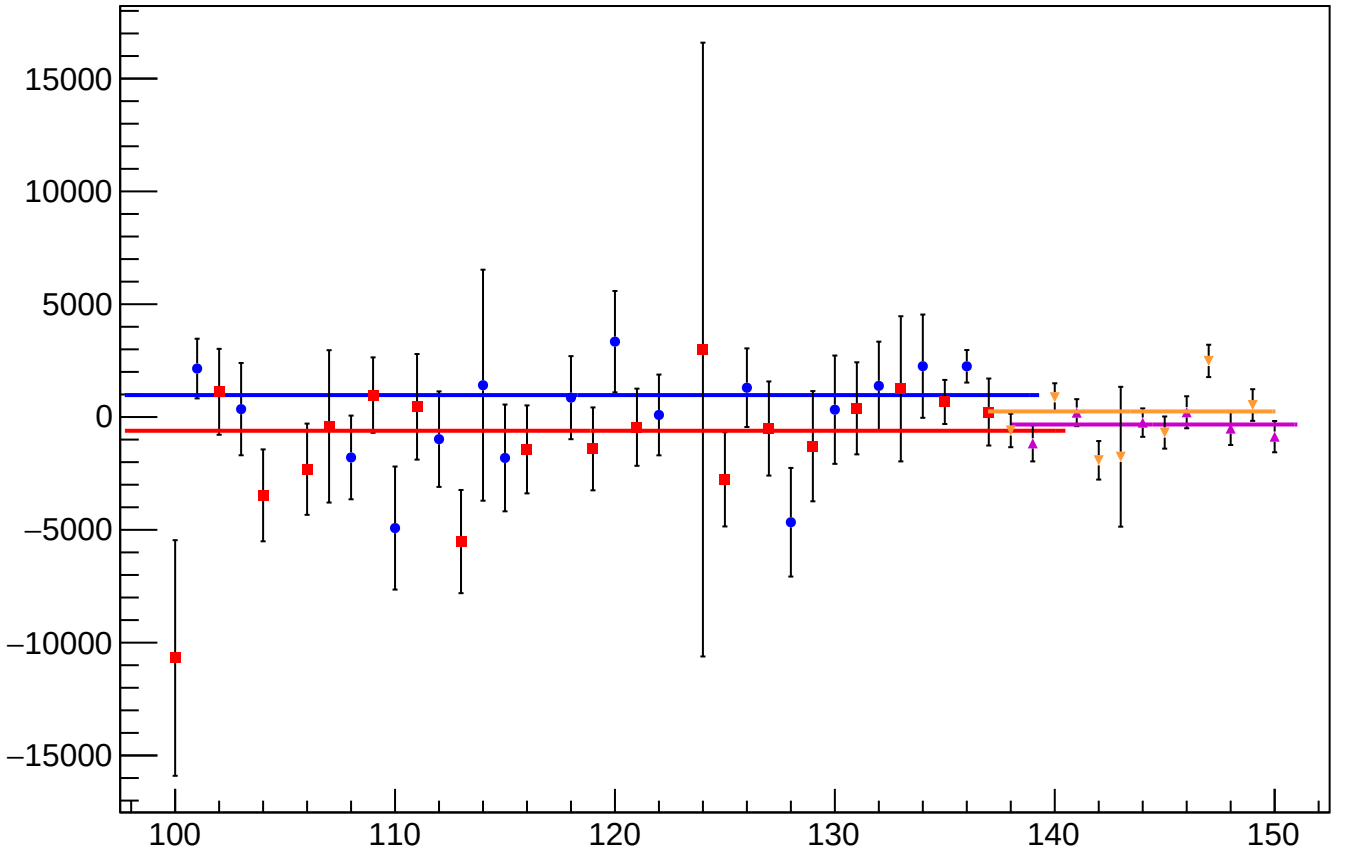
Left: 1238.115+/-0.270 $\chi^2$/NDF: 153618.0/12

Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1276.976+/-0.258 $\chi^2$/NDF:519383.5/21

Out: 1245.897+/-0.250 $\chi^2$/NDF:367280.2/25

All: 1260.914+/-0.179 $\chi^2$/NDF: 894152.9/47




Right In: 972.287+/-425.219 $\chi^2$/NDF: 20.4/15

Left Out: 247.934+/-290.815 $\chi^2$/NDF:20.8/6

Right Out: -608.431+/-447.734 $\chi^2$/NDF: 17.1/18

Left In: -331.565+/-279.294 $\chi^2$/NDF:3.1/5

Left: -53.521+/-201.440 $\chi^2$/NDF: 26.0/12

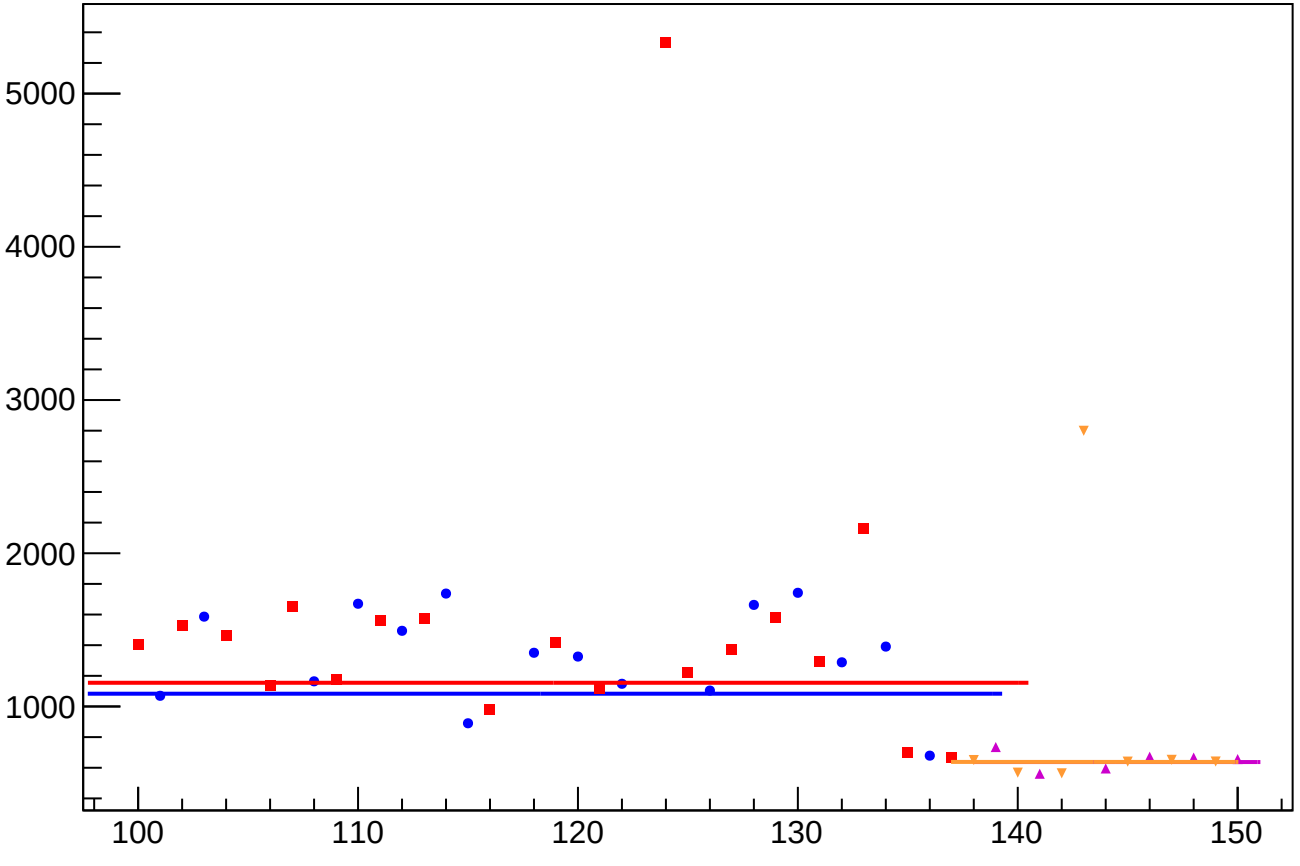
Right: 222.671+/-308.328 $\chi^2$/NDF: 44.1/34

In: 61.407+/-233.442 $\chi^2$/NDF:30.1/21

Out: -6.156+/-243.884 $\chi^2$/NDF:40.5/25

All: 29.103+/-168.639 $\chi^2$/NDF: 70.7/47

asym_at1_dd_at2_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 638.123+/-0.206 $\chi^2$/NDF:1014470.1/6

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 637.333+/-0.197 $\chi^2$/NDF:80882.0/5

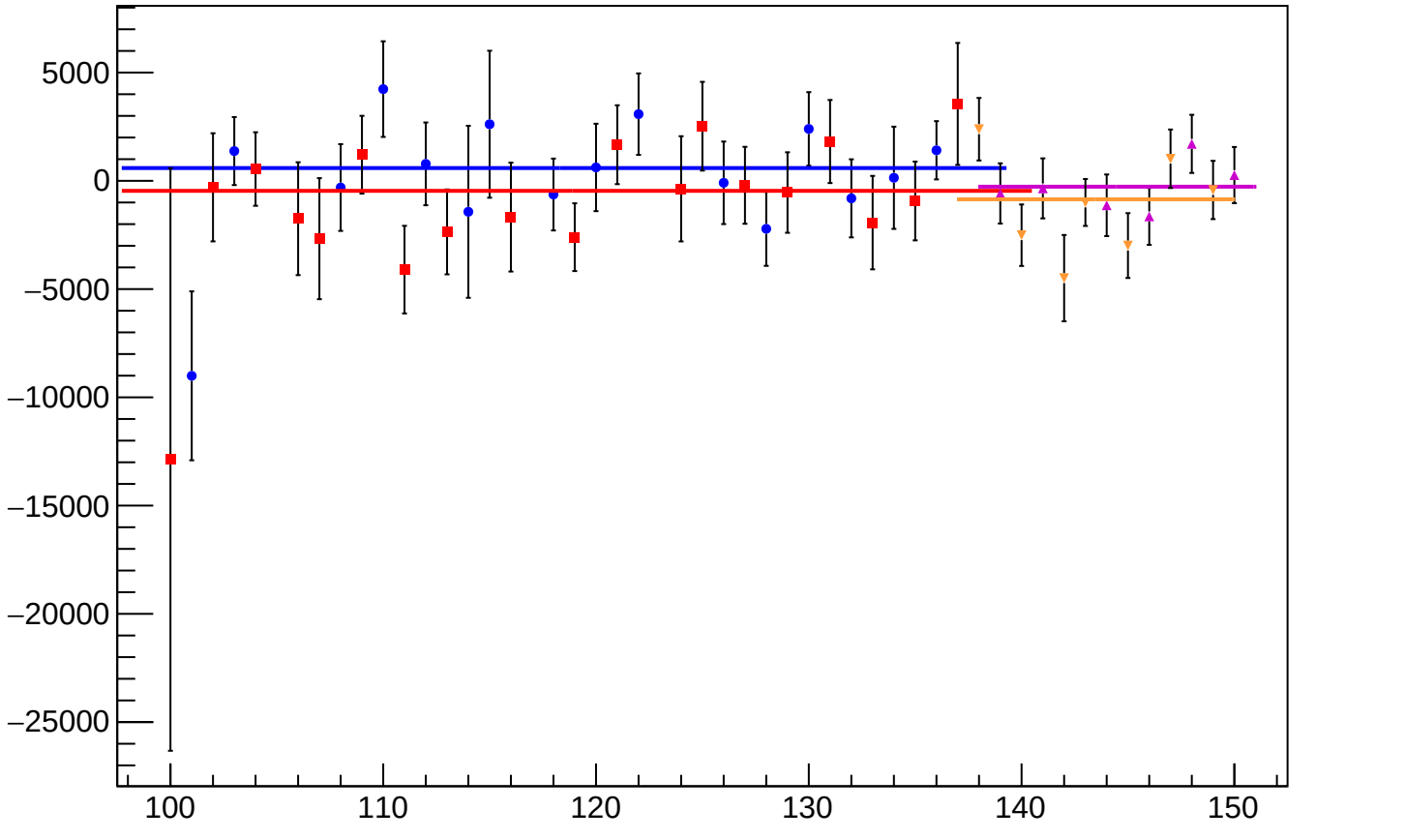
Left: 637.712+/-0.142 $\chi^2$/NDF: 1095359.9/12

Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 771.755+/-0.165 $\chi^2$/NDF:2978168.1/21

Out: 791.402+/-0.172 $\chi^2$/NDF:4375342.0/25

All: 781.149+/-0.119 $\chi^2$/NDF: 7360284.0/47




Right In: 590.323+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -853.275+/-525.291 $\chi^2$/NDF:13.8/6

Right Out: -462.605+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -270.727+/-553.947 $\chi^2$/NDF:3.8/5

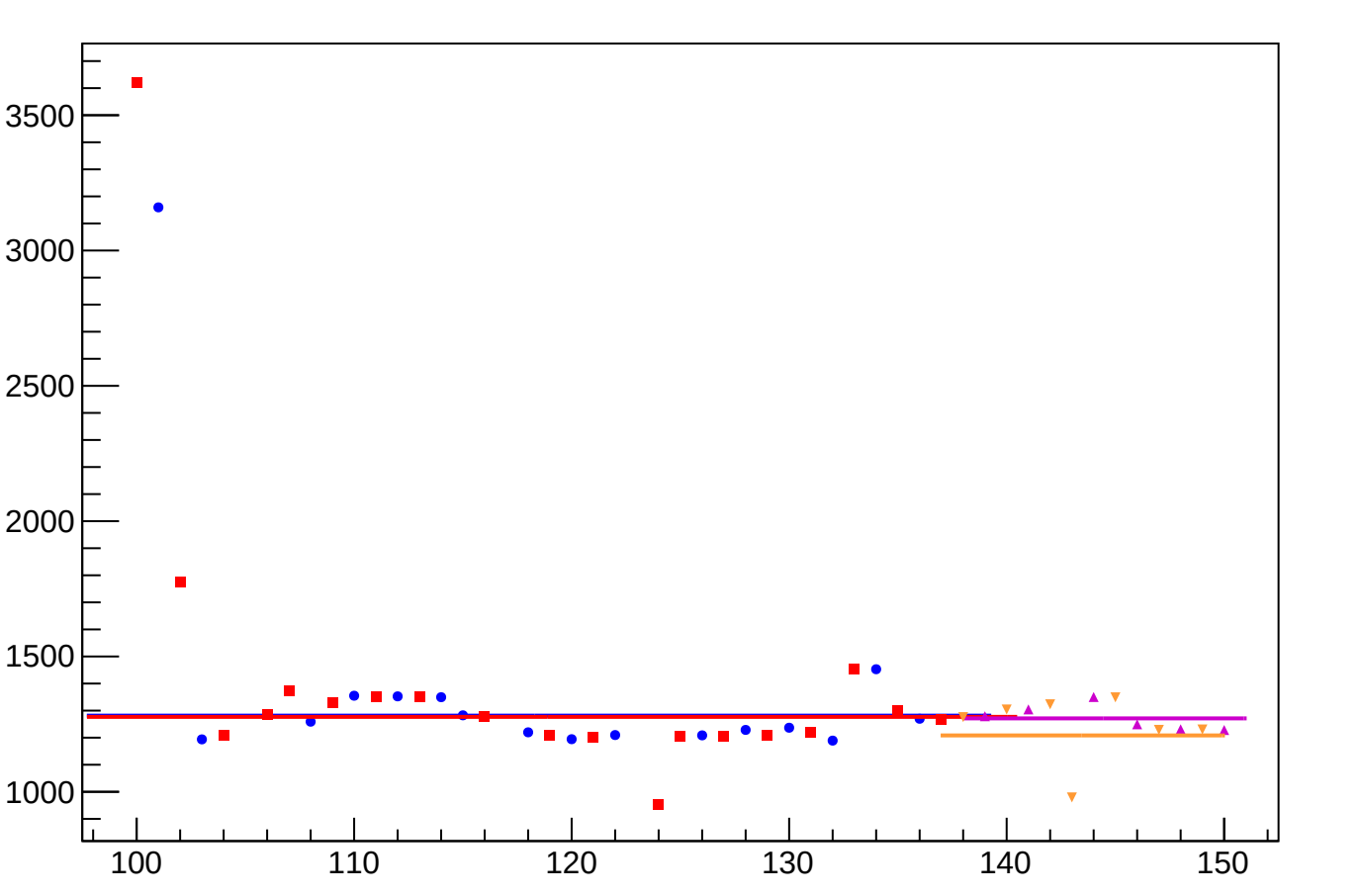
Left: -577.458+/-381.165 $\chi^2$/NDF: 18.2/12

Right: 54.354+/-340.175 $\chi^2$/NDF: 36.2/34

In: 216.268+/-365.108 $\chi^2$/NDF:22.3/21

Out: -639.078+/-353.048 $\chi^2$/NDF:30.8/25

All: -225.765+/-253.799 $\chi^2$/NDF: 56.0/47




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.6/15

Left Out: 1208.314+/-0.371 $\chi^2$/NDF:128093.5/6

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.5/18

Left In: 1271.256+/-0.392 $\chi^2$/NDF:11928.2/5

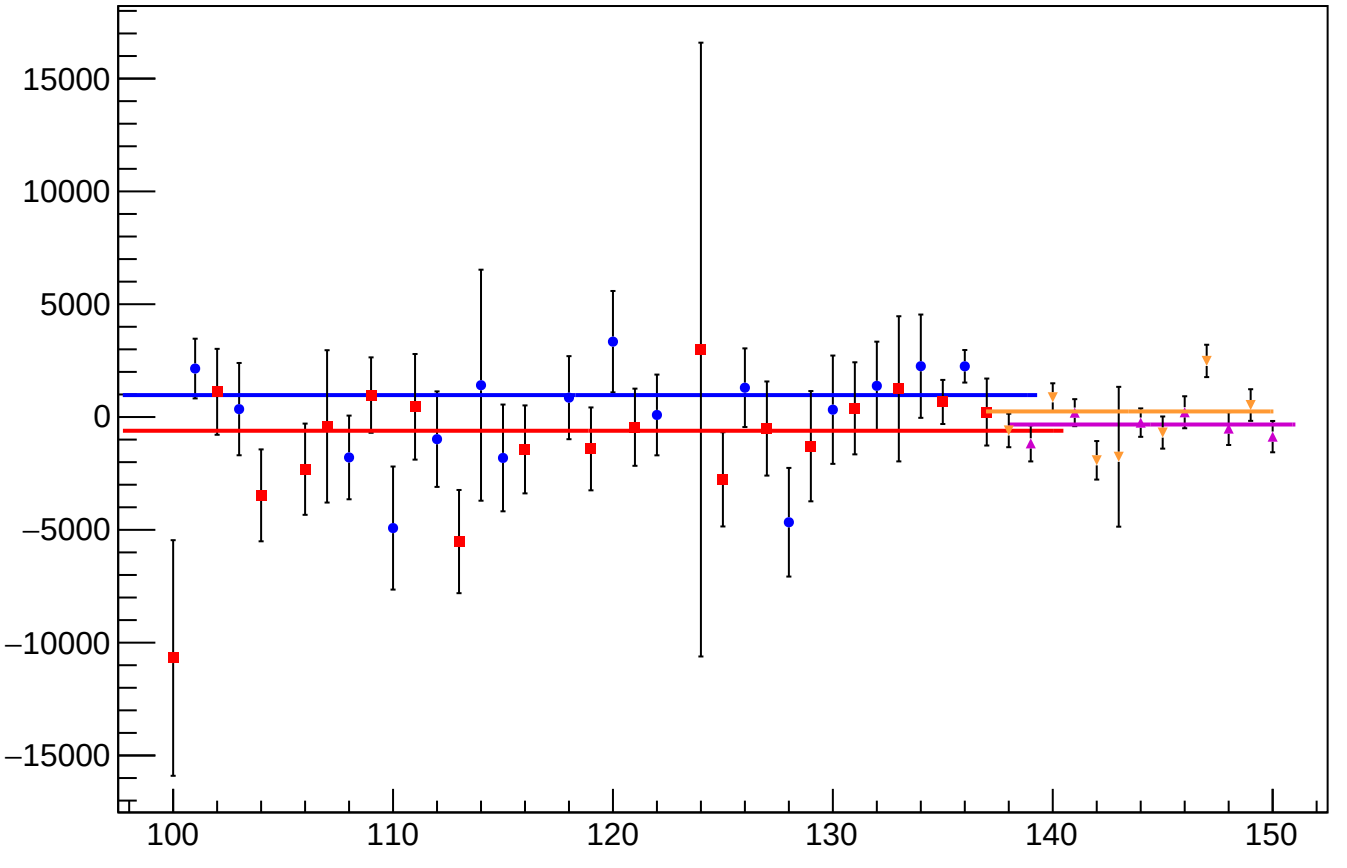
Left: 1238.115+/-0.270 $\chi^2$/NDF: 153617.3/12

Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1276.976+/-0.258 $\chi^2$/NDF:519383.7/21

Out: 1245.897+/-0.250 $\chi^2$/NDF:367279.2/25

All: 1260.914+/-0.179 $\chi^2$/NDF: 894152.0/47




Right In: 972.281+/-425.220 $\chi^2$/NDF: 20.4/15

Left Out: 247.937+/-290.815 $\chi^2$/NDF:20.8/6

Right Out: -608.441+/-447.736 $\chi^2$/NDF: 17.1/18

Left In: -331.564+/-279.294 $\chi^2$/NDF:3.1/5

Left: -53.520+/-201.441 $\chi^2$/NDF: 26.0/12

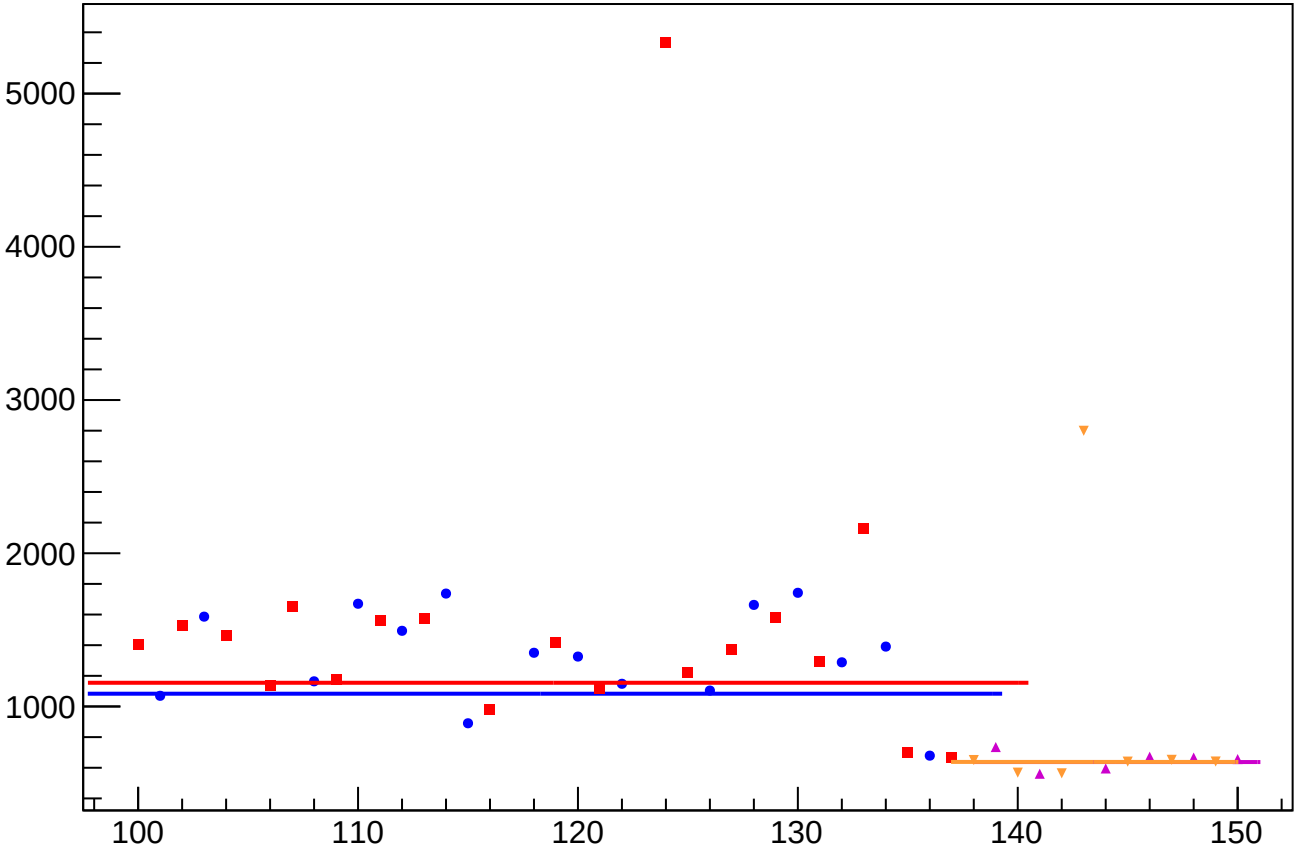
Right: 222.664+/-308.329 $\chi^2$/NDF: 44.1/34

In: 61.403+/-233.442 $\chi^2$/NDF:30.1/21

Out: -6.156+/-243.885 $\chi^2$/NDF:40.5/25

All: 29.101+/-168.640 $\chi^2$/NDF: 70.7/47

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 638.125+/-0.206 $\chi^2$/NDF:1014468.0/6

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 637.333+/-0.197 $\chi^2$/NDF:80884.4/5

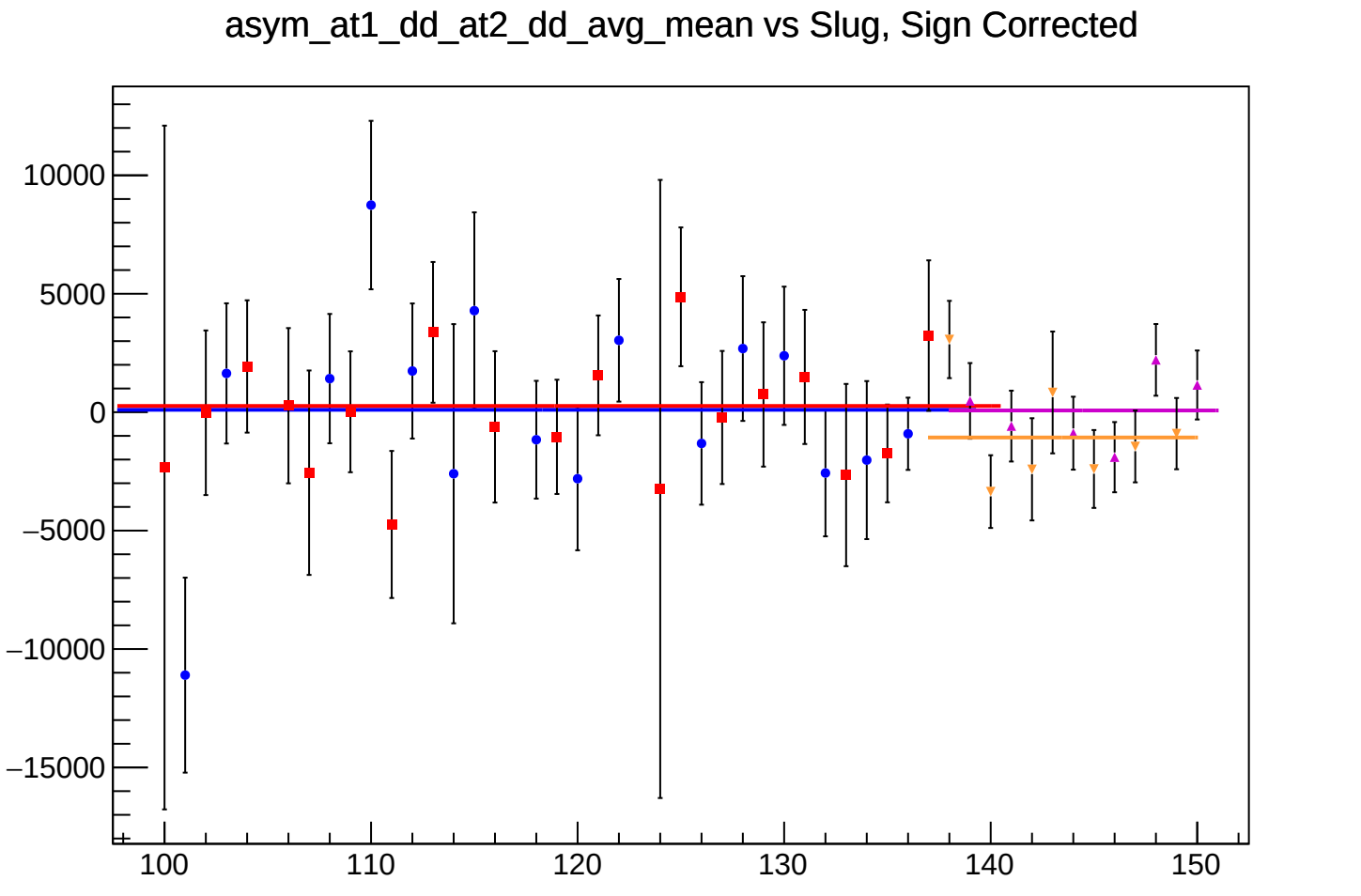
Left: 637.713+/-0.142 $\chi^2$/NDF: 1095360.2/12

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 771.755+/-0.165 $\chi^2$/NDF:2978152.5/21

Out: 791.406+/-0.172 $\chi^2$/NDF:4375310.0/25

All: 781.151+/-0.119 $\chi^2$/NDF: 7360238.2/47




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -1068.414+/-643.809 $\chi^2$/NDF:10.3/6

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: 72.772+/-617.311 $\chi^2$/NDF:5.0/5

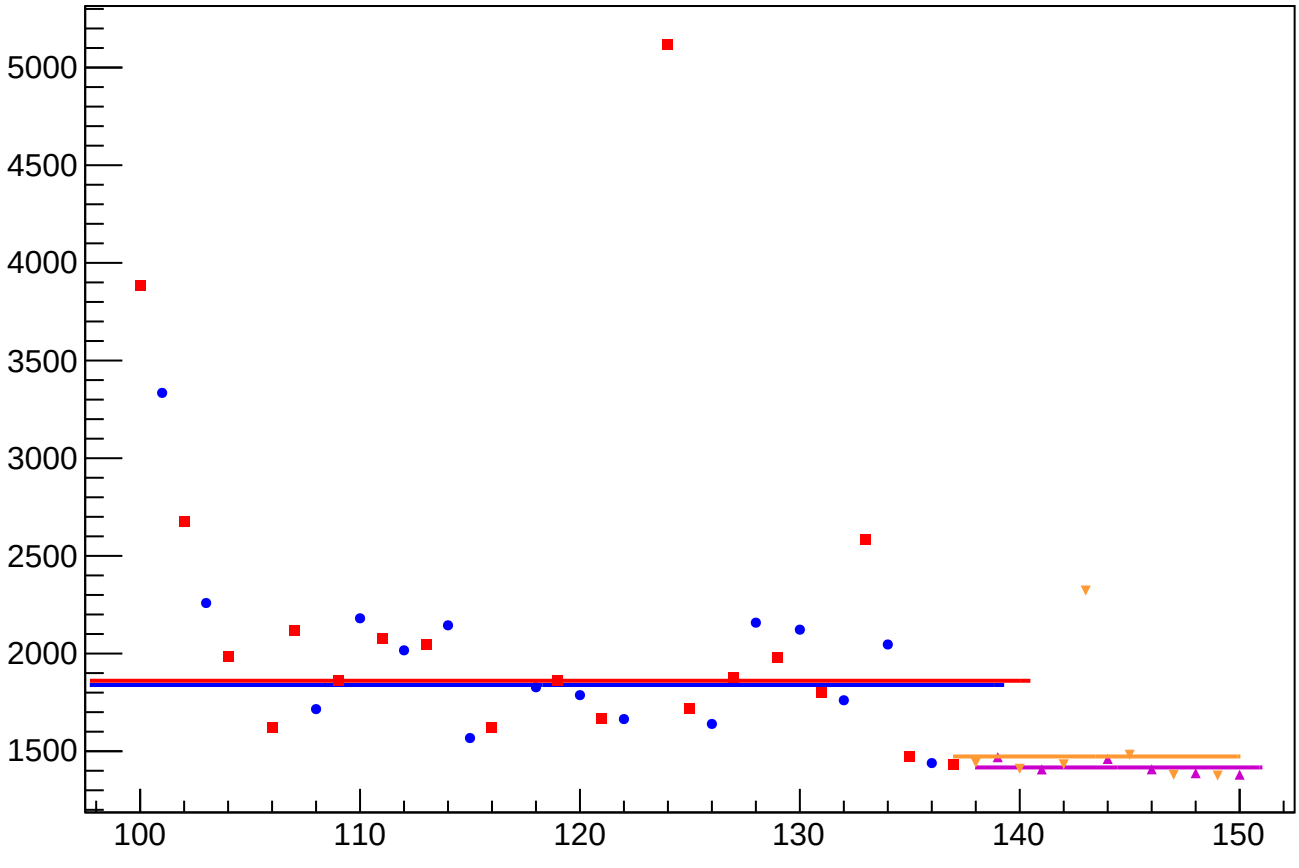
Left: -473.854+/-445.578 $\chi^2$/NDF: 16.9/12

Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: 84.901+/-462.699 $\chi^2$/NDF:26.2/21

Out: -458.146+/-473.778 $\chi^2$/NDF:22.6/25

All: -180.199+/-331.025 $\chi^2$/NDF: 49.5/47




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1473.121+/-0.455 $\chi^2$/NDF:239086.8/6

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1416.951+/-0.437 $\chi^2$/NDF:5960.6/5

Left: 1443.856+/-0.315 $\chi^2$/NDF: 252979.0/12

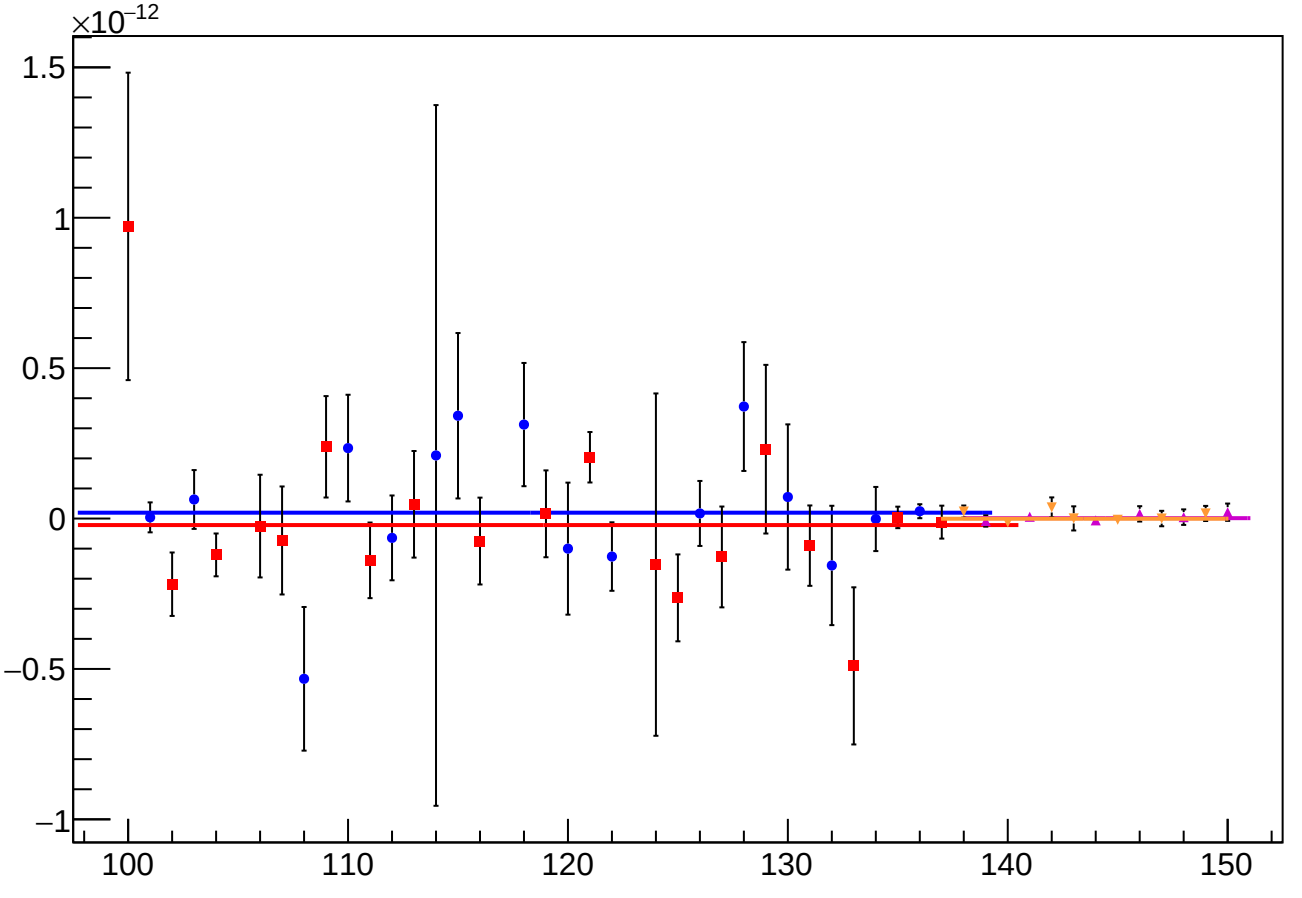
Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1601.939+/-0.327 $\chi^2$/NDF:972554.4/21

Out: 1650.835+/-0.335 $\chi^2$/NDF:1093599.1/25

All: 1625.809+/-0.234 $\chi^2$/NDF: 2077056.6/47

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/5

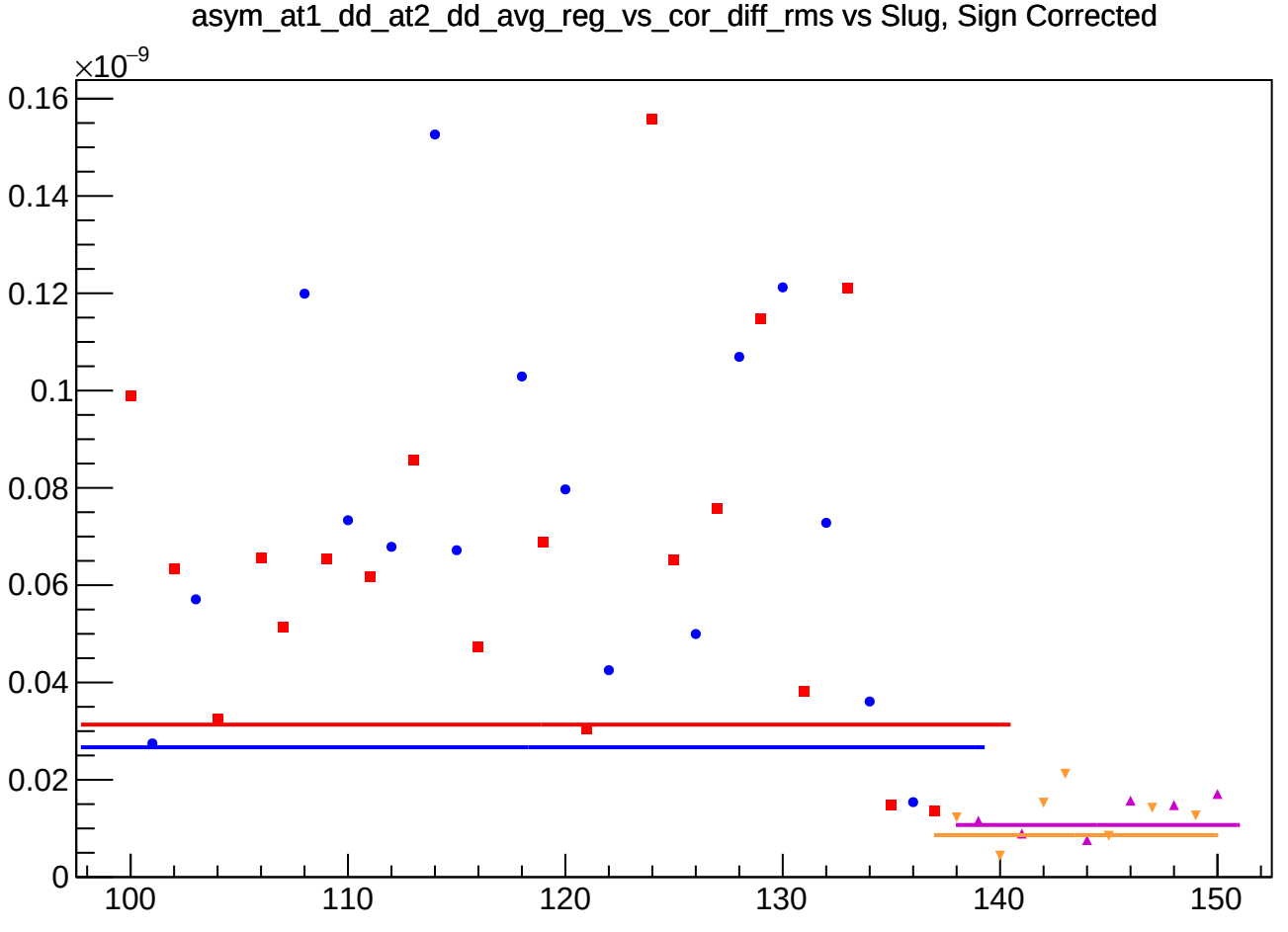
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 52.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2580672.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:802333.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2275167.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:362166.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1242599.4/12

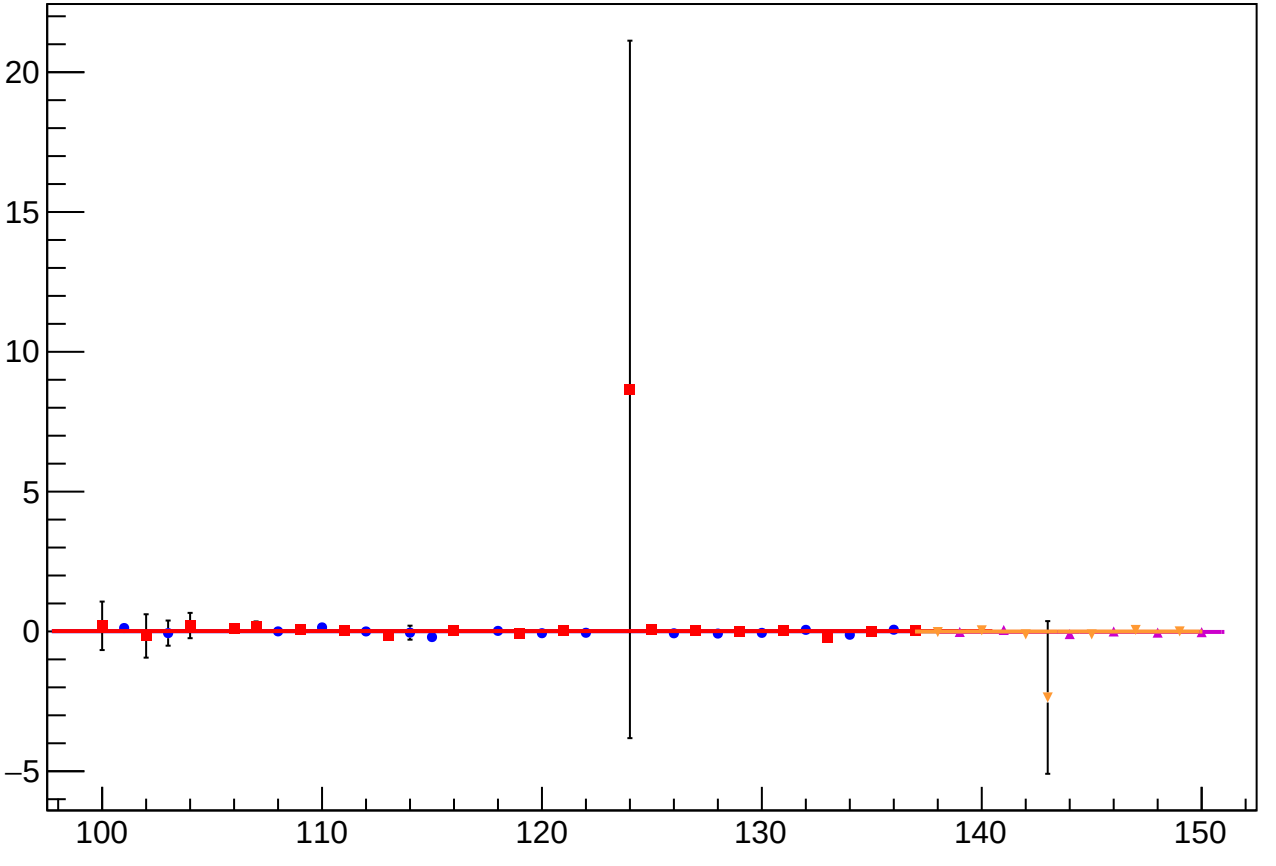
Right: 0.000+/-0.000 $\chi^2$/NDF: 4906978.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4174768.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4964948.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9254186.7/47

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

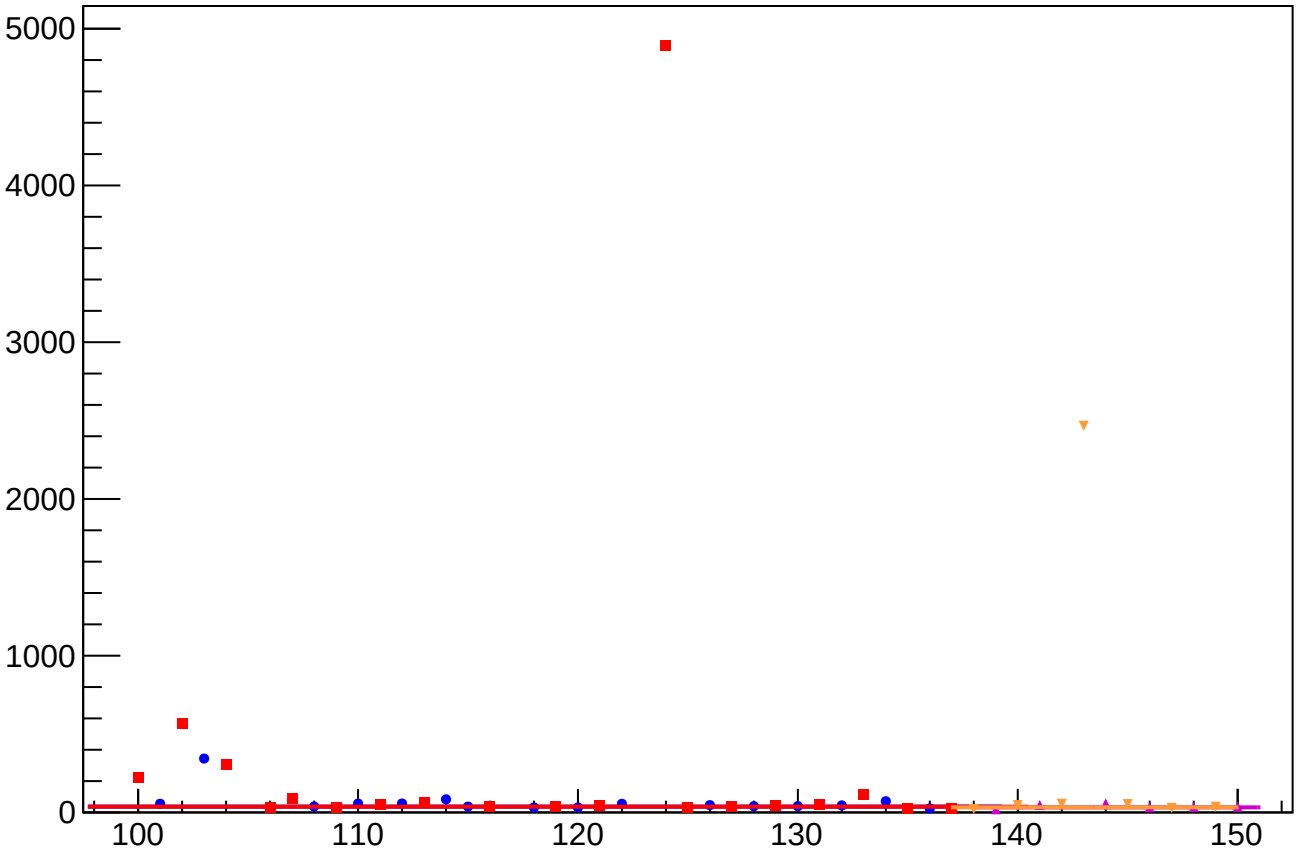
Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.7/47




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 32.526+/-0.012 $\chi^2$/NDF:2412295.8/6

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 32.499+/-0.011 $\chi^2$/NDF:904074.5/5

Left: 32.512+/-0.008 $\chi^2$/NDF: 3316372.9/12

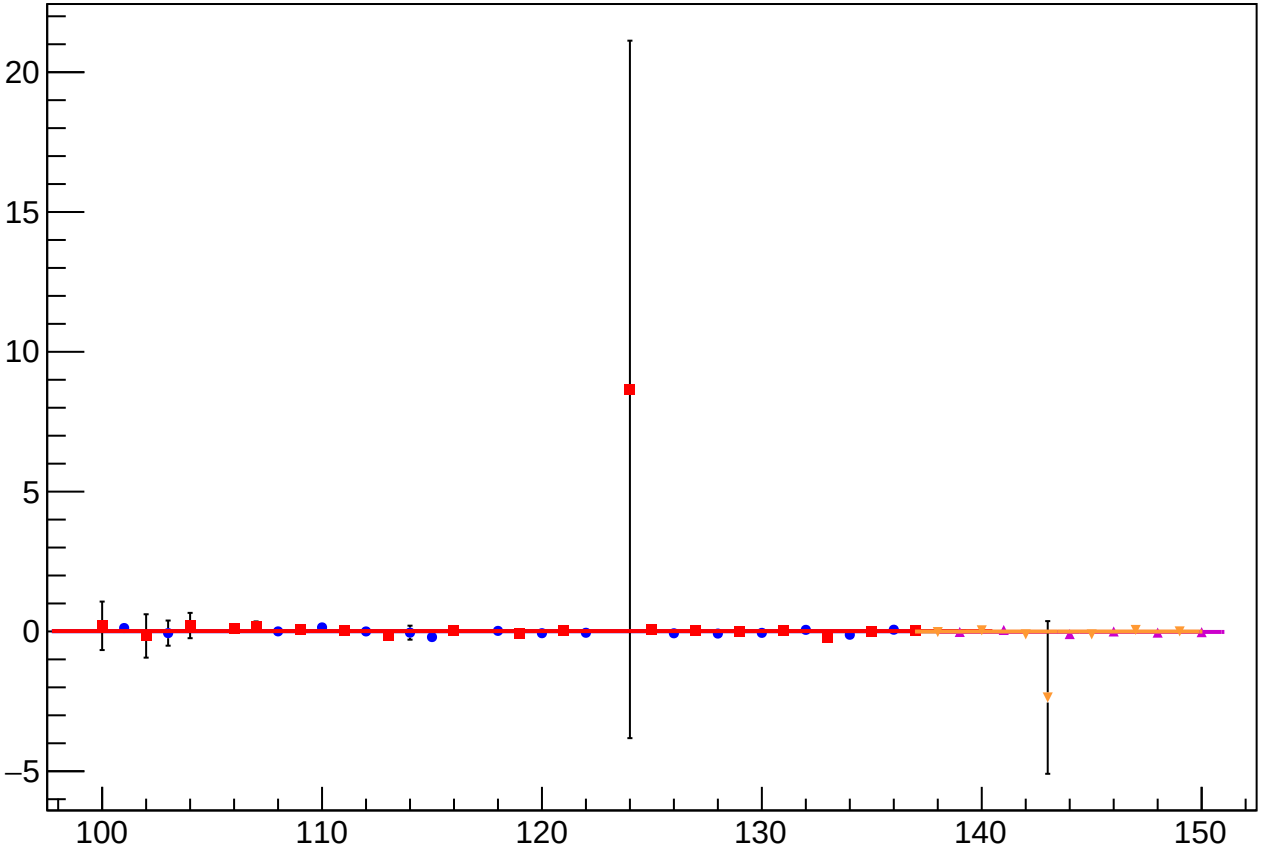
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.985+/-0.008 $\chi^2$/NDF:2984322.9/21

Out: 34.716+/-0.008 $\chi^2$/NDF:5665993.4/25

All: 34.857+/-0.006 $\chi^2$/NDF: 8650849.6/47

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

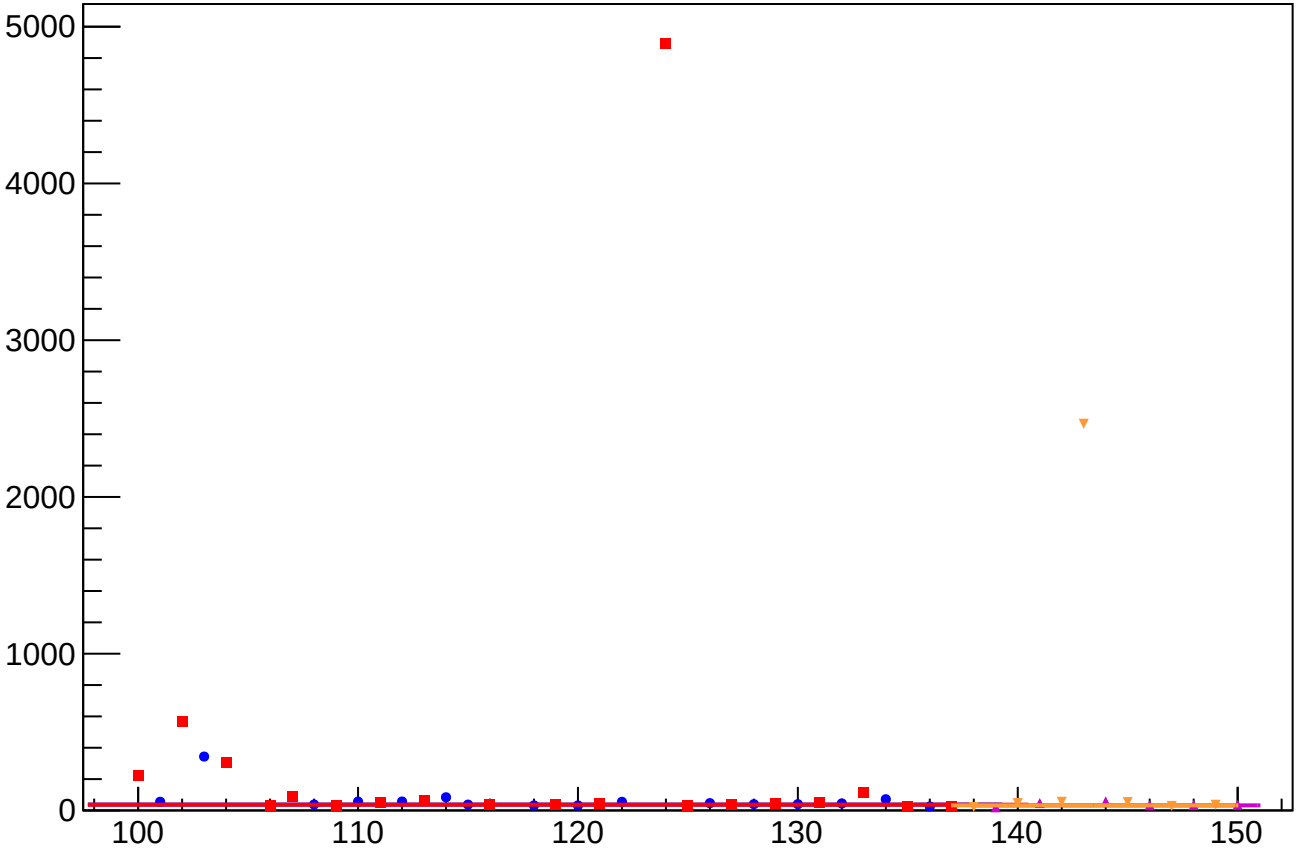
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.7/47

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 32.526+/-0.012 $\chi^2$/NDF:2412295.8/6

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 32.499+/-0.011 $\chi^2$/NDF:904074.5/5

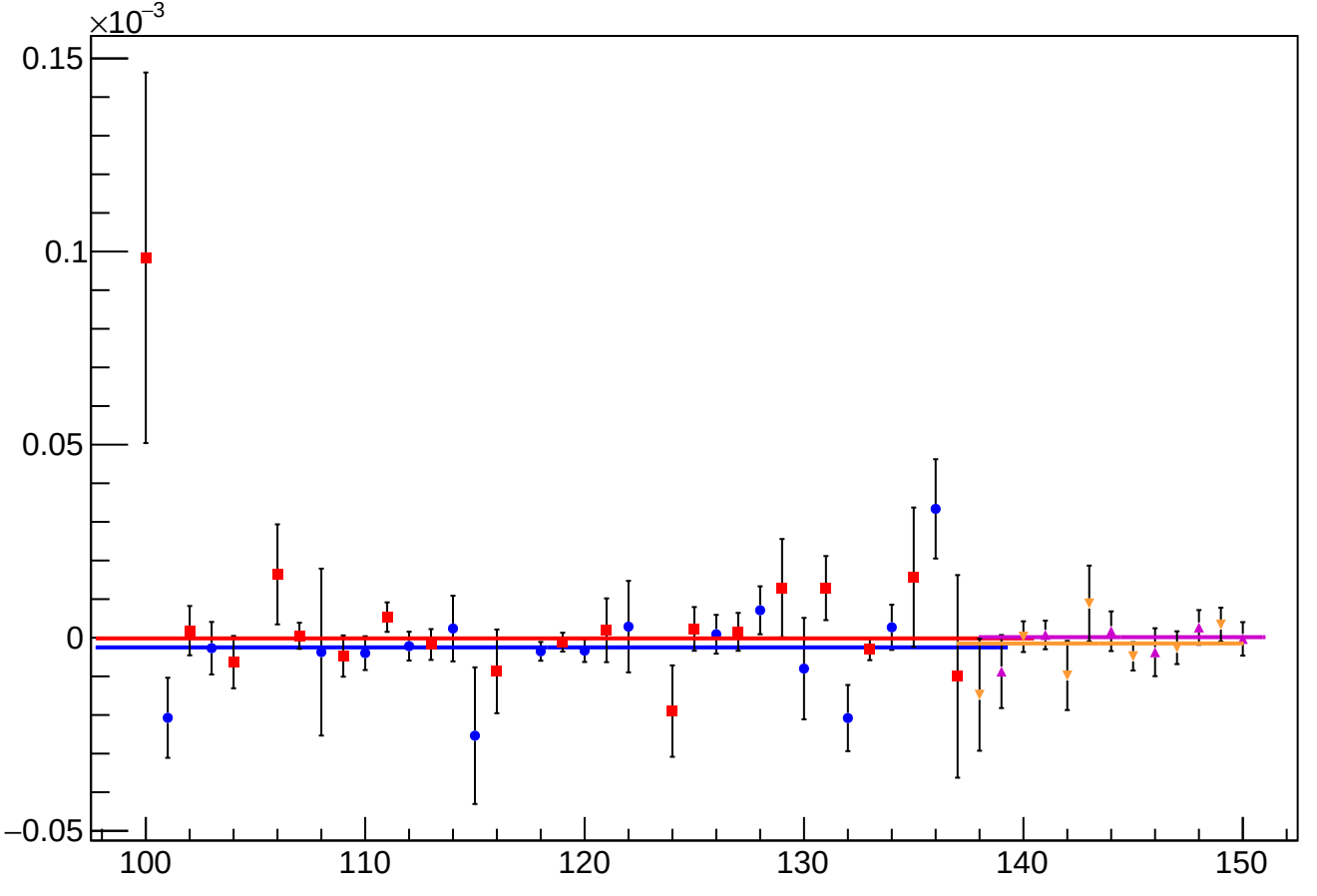
Left: 32.512+/-0.008 $\chi^2$/NDF: 3316372.9/12

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.985+/-0.008 $\chi^2$/NDF:2984322.9/21

Out: 34.716+/-0.008 $\chi^2$/NDF:5665993.4/25

All: 34.857+/-0.006 $\chi^2$/NDF: 8650849.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 7.2/12

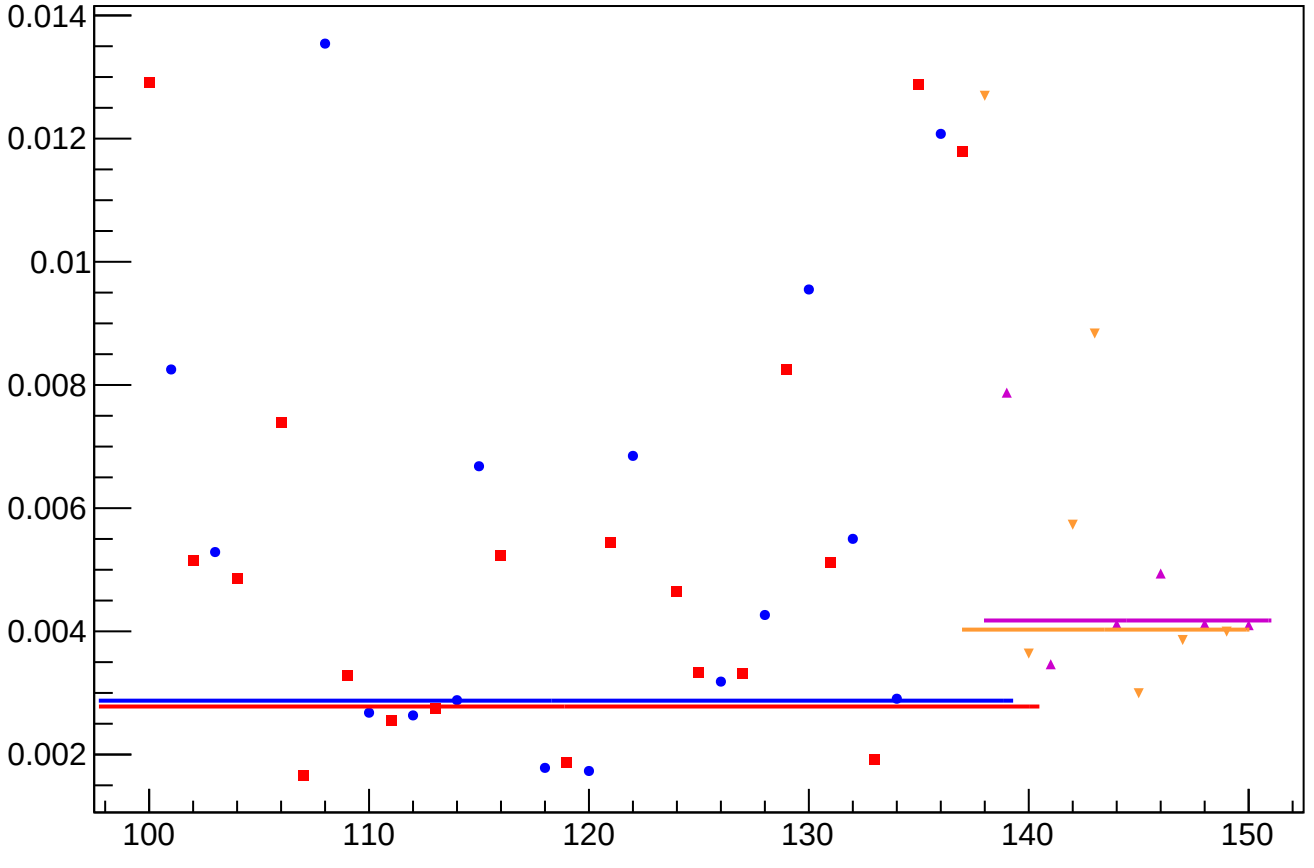
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:24.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 49.8/47

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1449222.5/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:411345.4/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 1866304.0/12

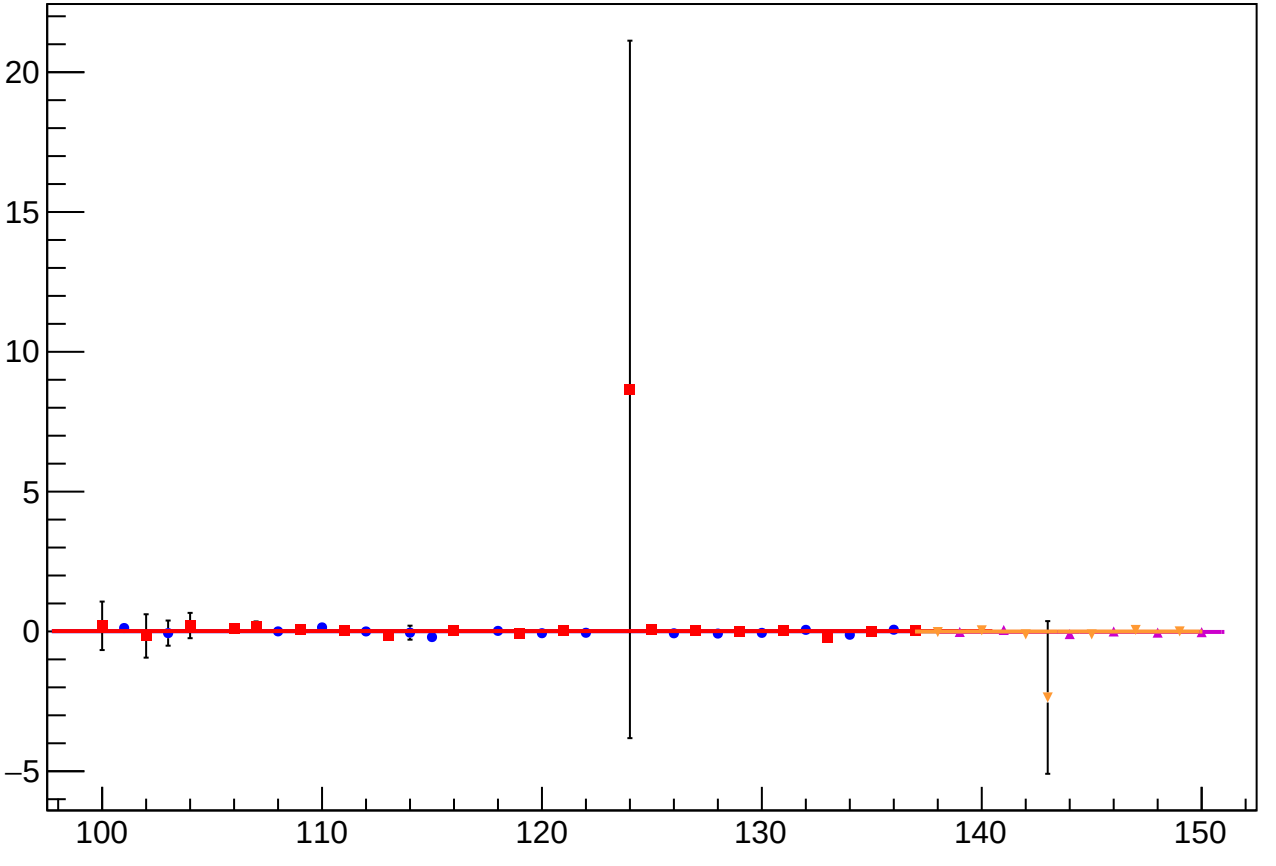
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:5159161.2/21

Out: 0.003+/-0.000 $\chi^2$/NDF:5378885.6/25

All: 0.003+/-0.000 $\chi^2$/NDF: 10556892.7/47

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

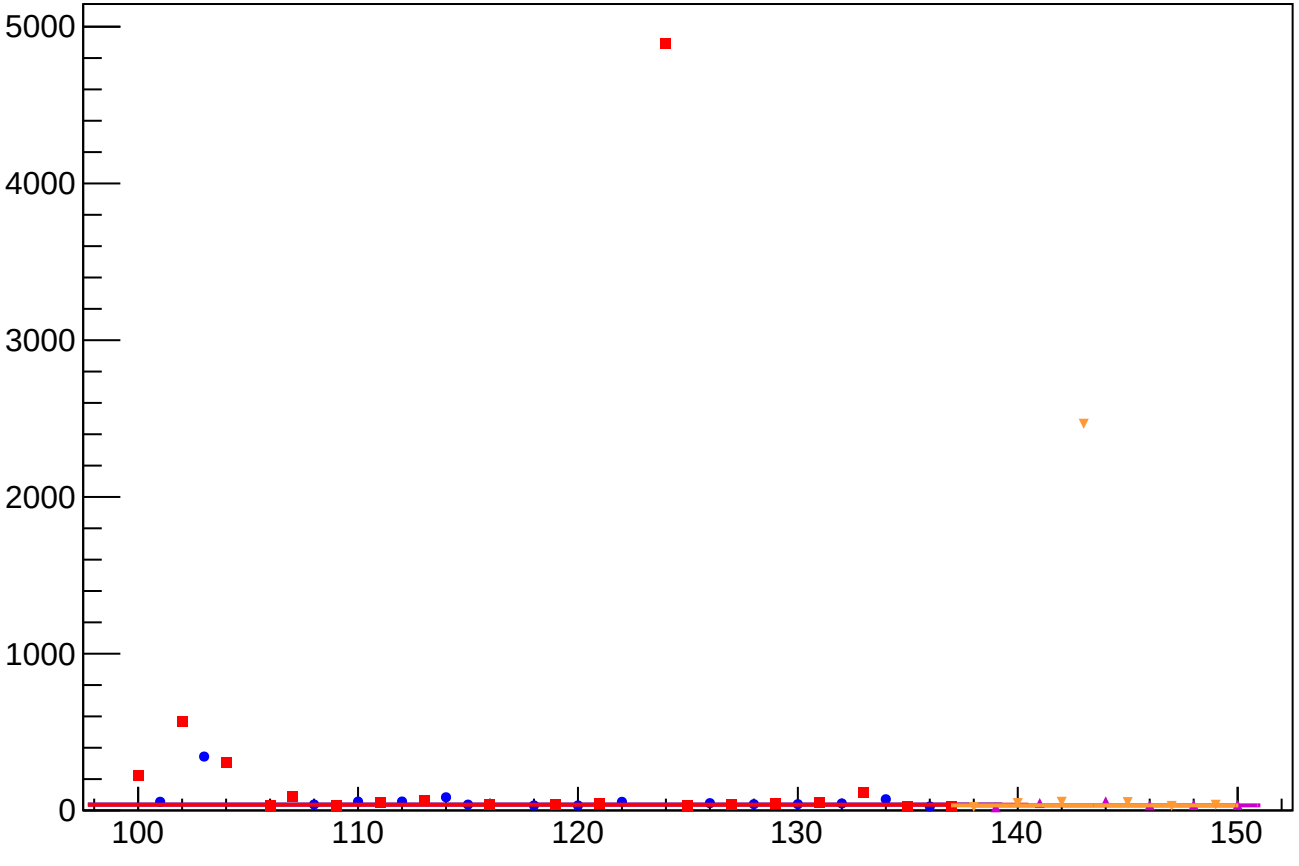
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.8/47

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 32.523+/-0.012 $\chi^2$/NDF:2412617.4/6

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 32.504+/-0.011 $\chi^2$/NDF:903285.4/5

Left: 32.513+/-0.008 $\chi^2$/NDF: 3315904.1/12

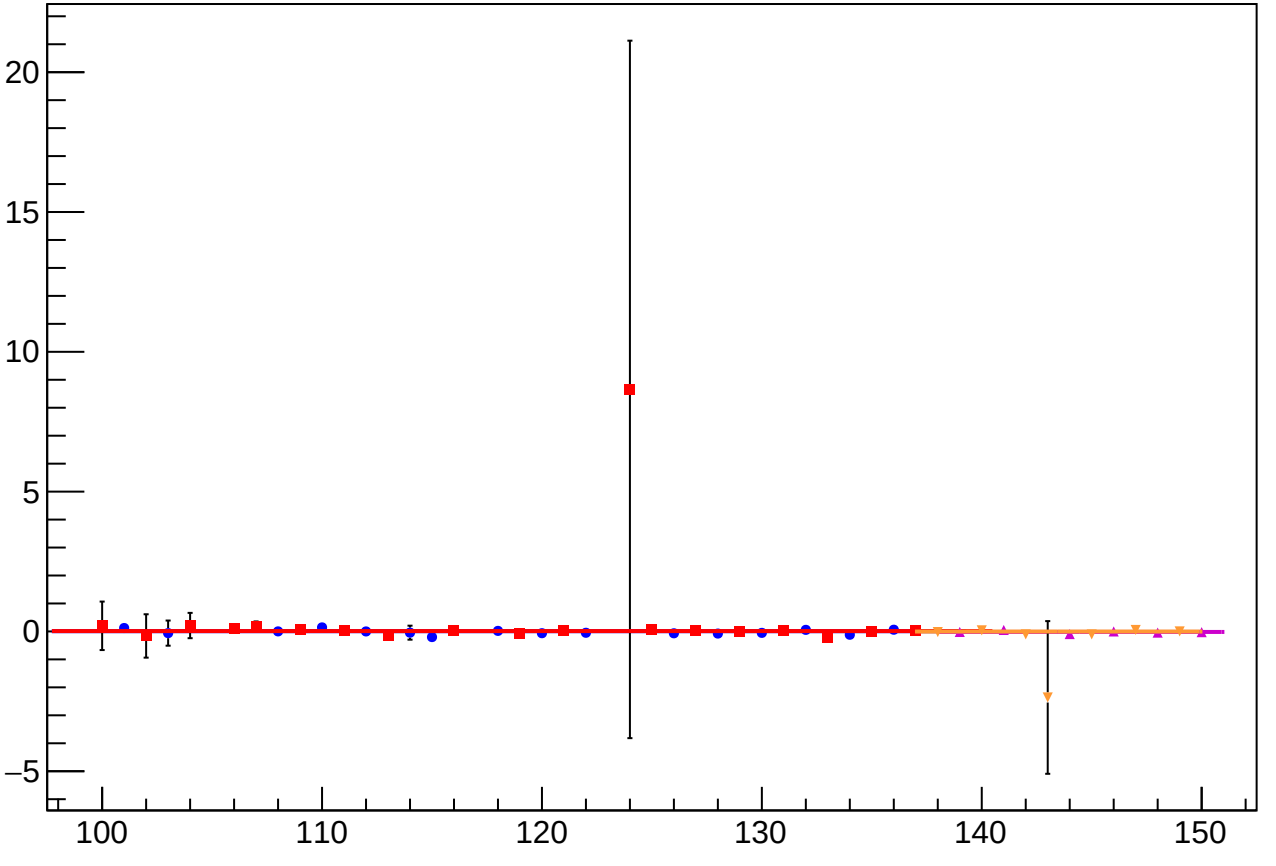
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.987+/-0.008 $\chi^2$/NDF:2983311.3/21

Out: 34.715+/-0.008 $\chi^2$/NDF:5666166.4/25

All: 34.858+/-0.006 $\chi^2$/NDF: 8650024.8/47

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: -0.004+/-0.017 $\chi^2$/NDF:8.8/6

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.018+/-0.016 $\chi^2$/NDF:3.9/5

Left: -0.012+/-0.012 $\chi^2$/NDF: 13.1/12

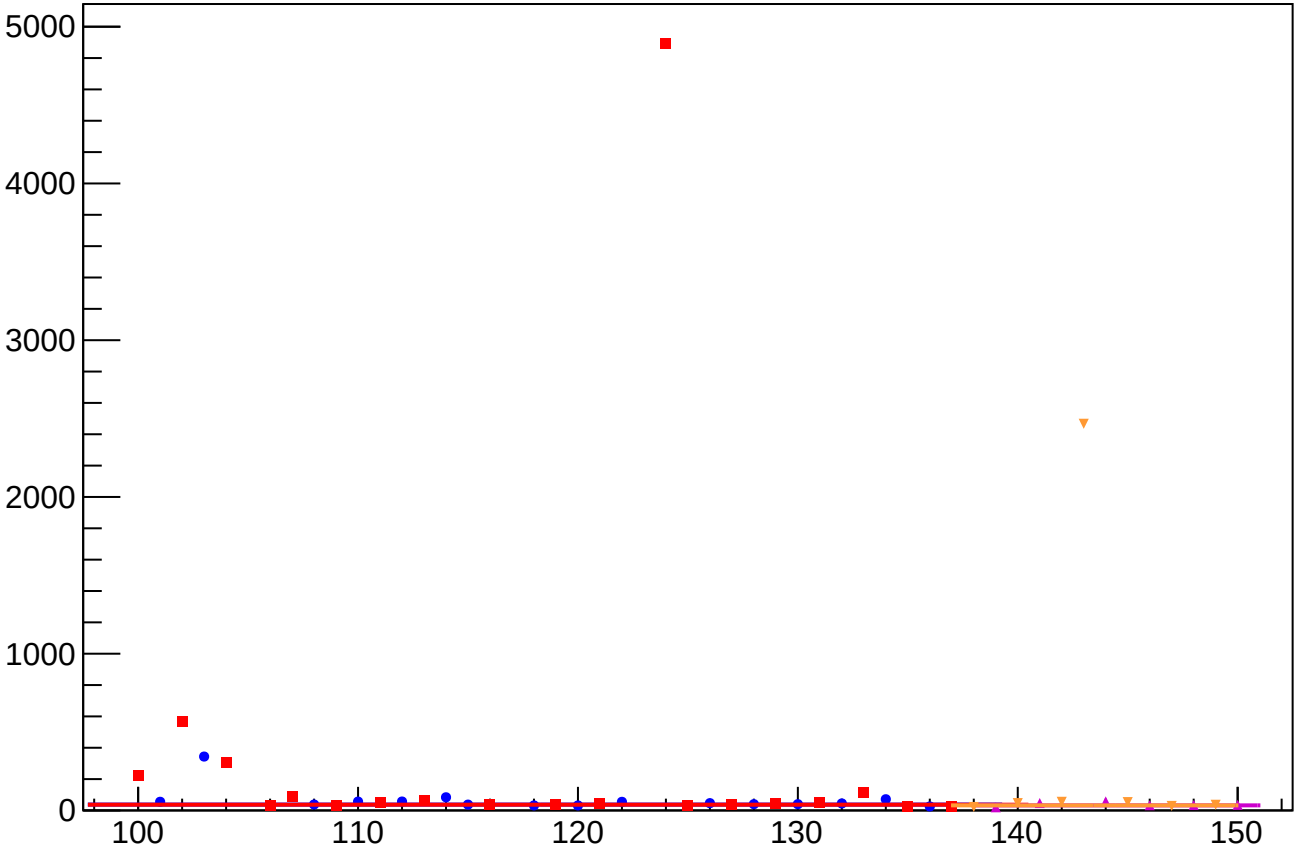
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.011 $\chi^2$/NDF:24.6/21

Out: 0.005+/-0.012 $\chi^2$/NDF:21.8/25

All: -0.001+/-0.008 $\chi^2$/NDF: 46.8/47

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 32.523+/-0.012 $\chi^2$/NDF:2412617.4/6

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 32.504+/-0.011 $\chi^2$/NDF:903285.4/5

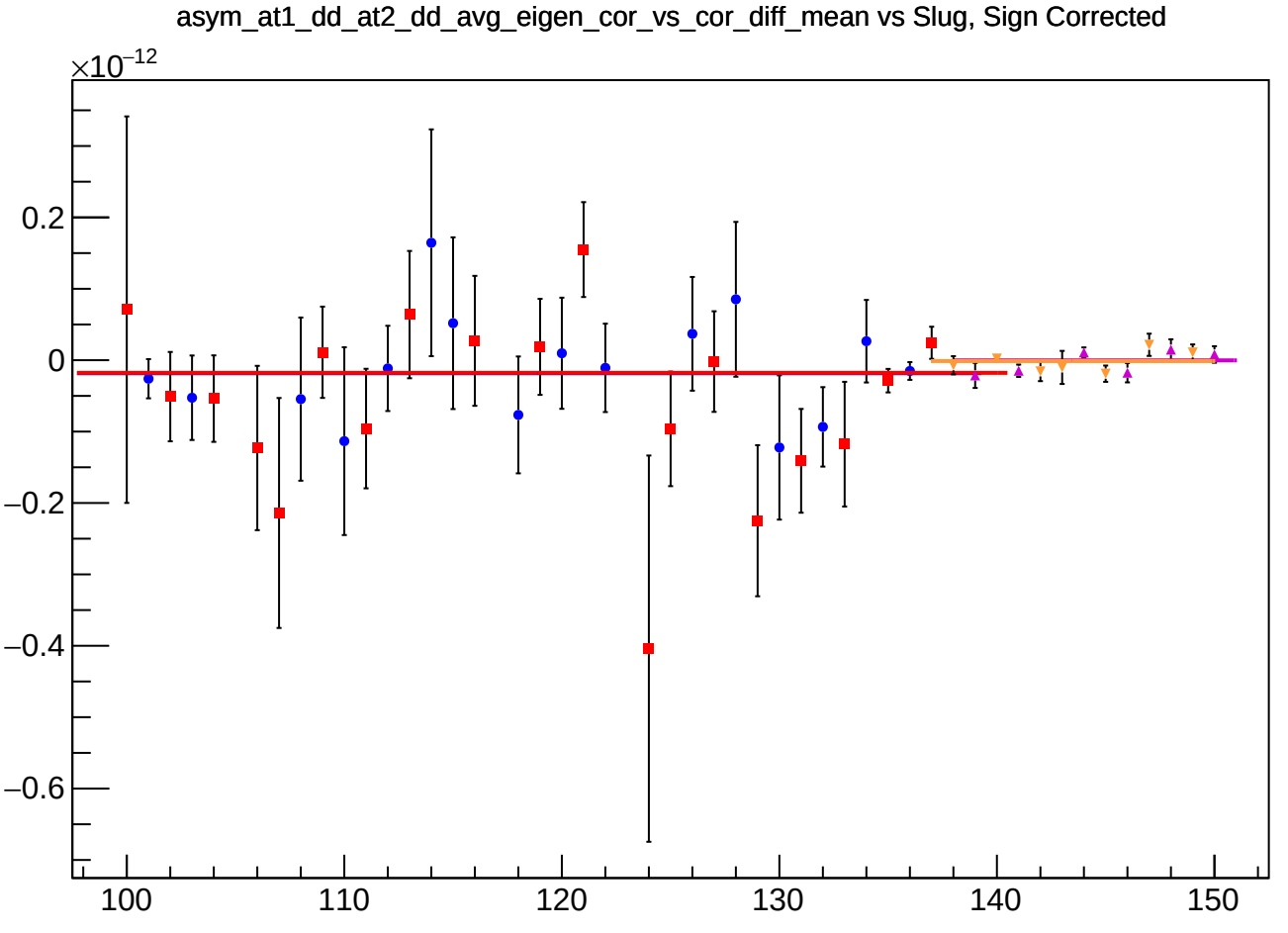
Left: 32.513+/-0.008 $\chi^2$/NDF: 3315904.1/12

Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.987+/-0.008 $\chi^2$/NDF:2983311.3/21

Out: 34.715+/-0.008 $\chi^2$/NDF:5666166.4/25

All: 34.858+/-0.006 $\chi^2$/NDF: 8650024.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.0/5

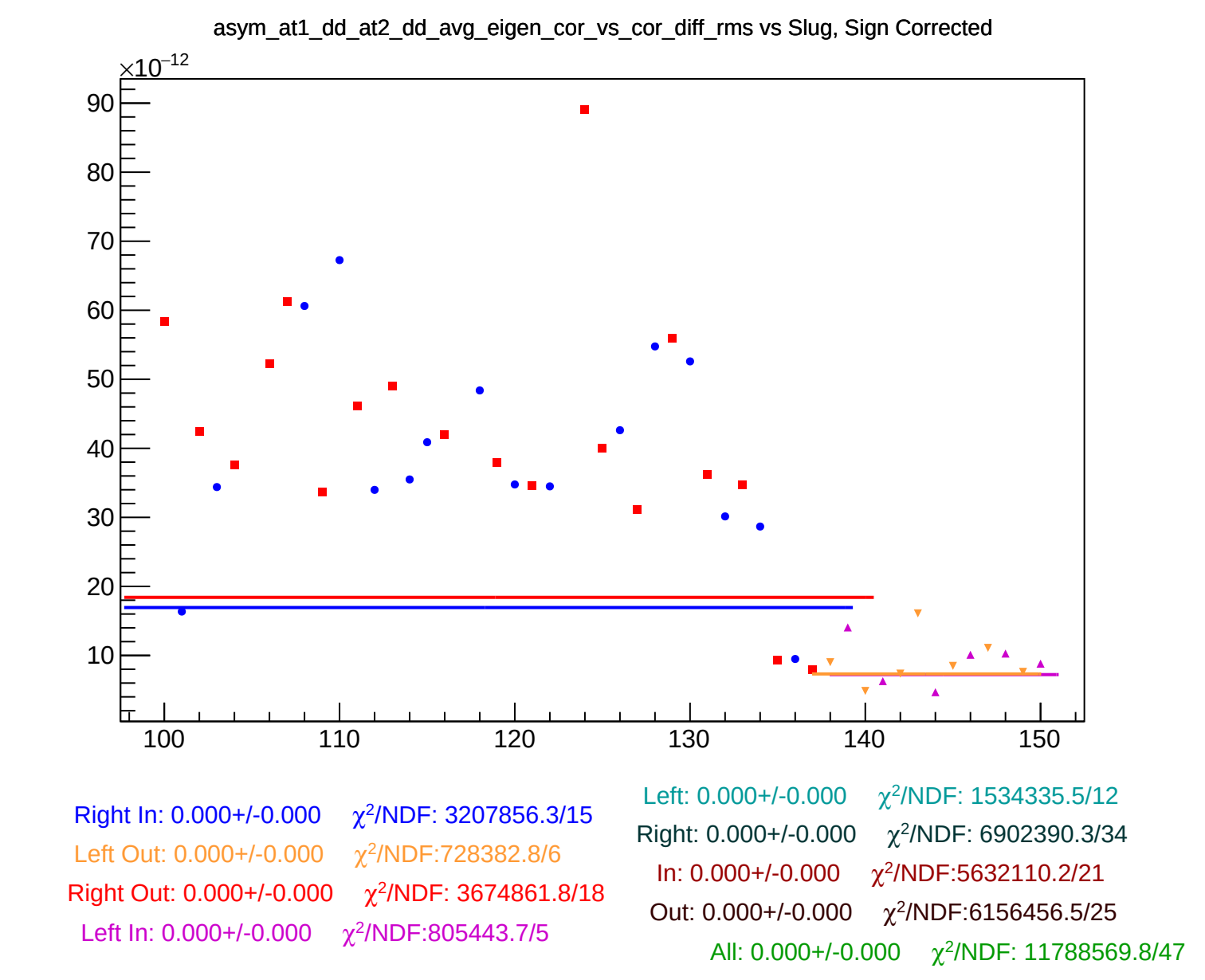
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.5/12

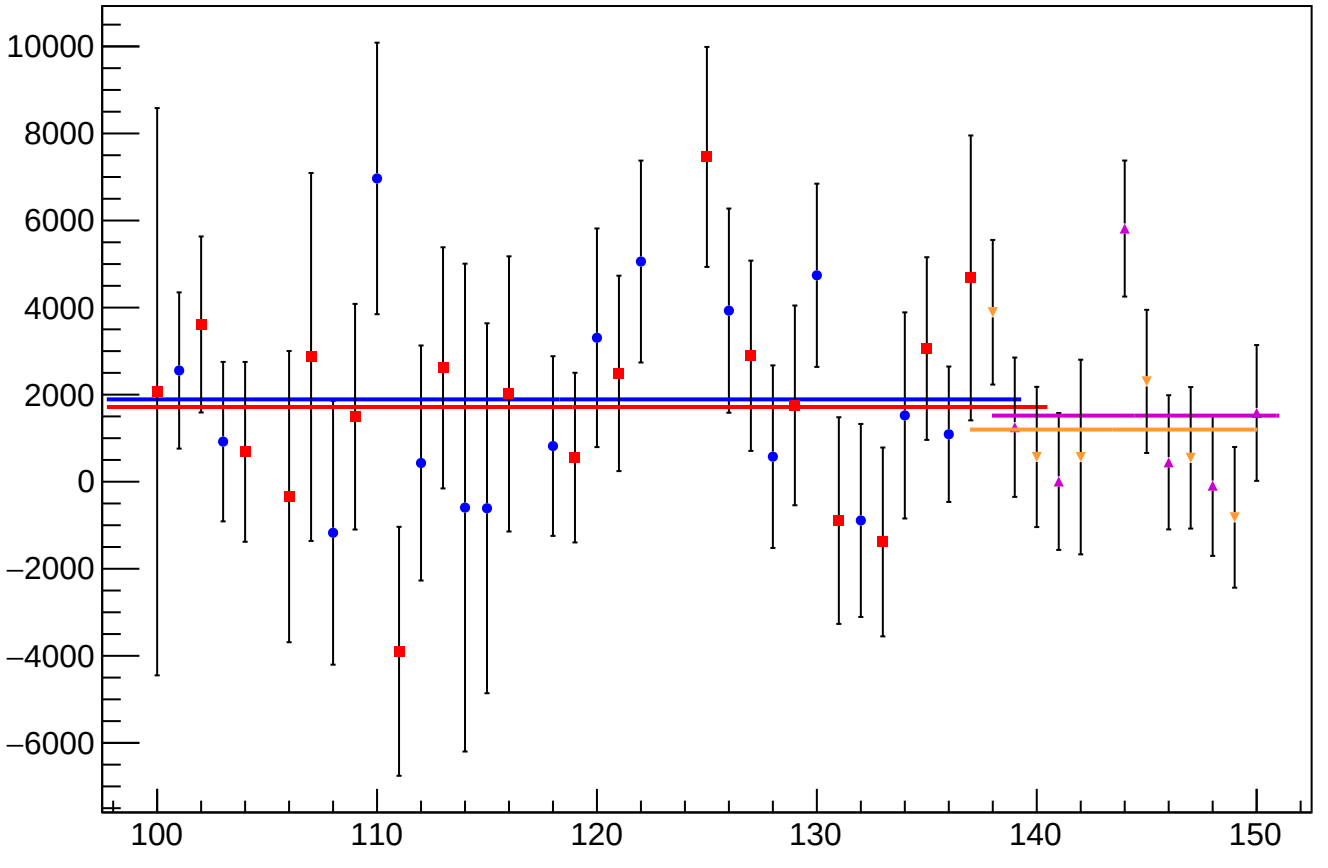
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:36.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.7/47


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3207856.3/15
Left Out: 0.000+/-0.000 χ²/NDF:728382.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 3674861.8/18
Left In: 0.000+/-0.000 χ²/NDF:805443.7/5
Left: 0.000+/-0.000 χ²/NDF: 1534335.5/12
Right: 0.000+/-0.000 χ²/NDF: 6902390.3/34
In: 0.000+/-0.000 χ²/NDF:5632110.2/21
Out: 0.000+/-0.000 χ²/NDF:6156456.5/25
All: 0.000+/-0.000 χ²/NDF: 11788569.8/47




Right In: 1891.457+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1197.394+/-693.566 $\chi^2$/NDF:5.0/5

Right Out: 1715.909+/-589.518 $\chi^2$/NDF: 16.0/17

Left In: 1518.387+/-642.798 $\chi^2$/NDF:10.0/5

Left: 1370.067+/-471.454 $\chi^2$/NDF: 15.1/11

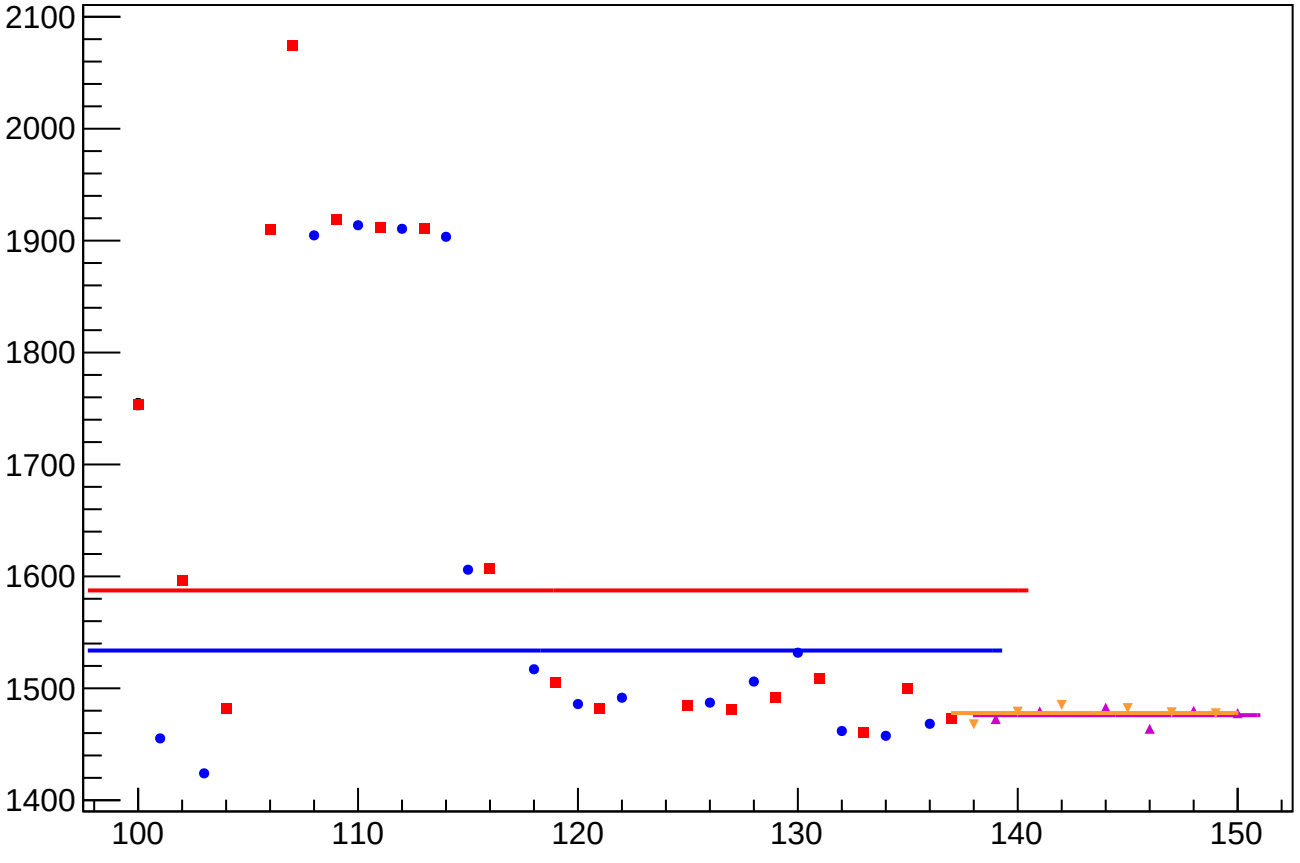
Right: 1806.293+/-410.609 $\chi^2$/NDF: 28.2/33

In: 1726.512+/-427.414 $\chi^2$/NDF:22.4/21

Out: 1498.424+/-449.181 $\chi^2$/NDF:21.3/23

All: 1618.128+/-309.637 $\chi^2$/NDF: 43.9/45

# reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.6/15

Left Out: 1477.902+/-0.490 $\chi^2$/NDF:110.6/5

Right Out: 1587.461+/-0.417 $\chi^2$/NDF: 171988.2/17

Left In: 1476.001+/-0.455 $\chi^2$/NDF:194.7/5

Left: 1476.880+/-0.333 $\chi^2$/NDF: 313.4/11

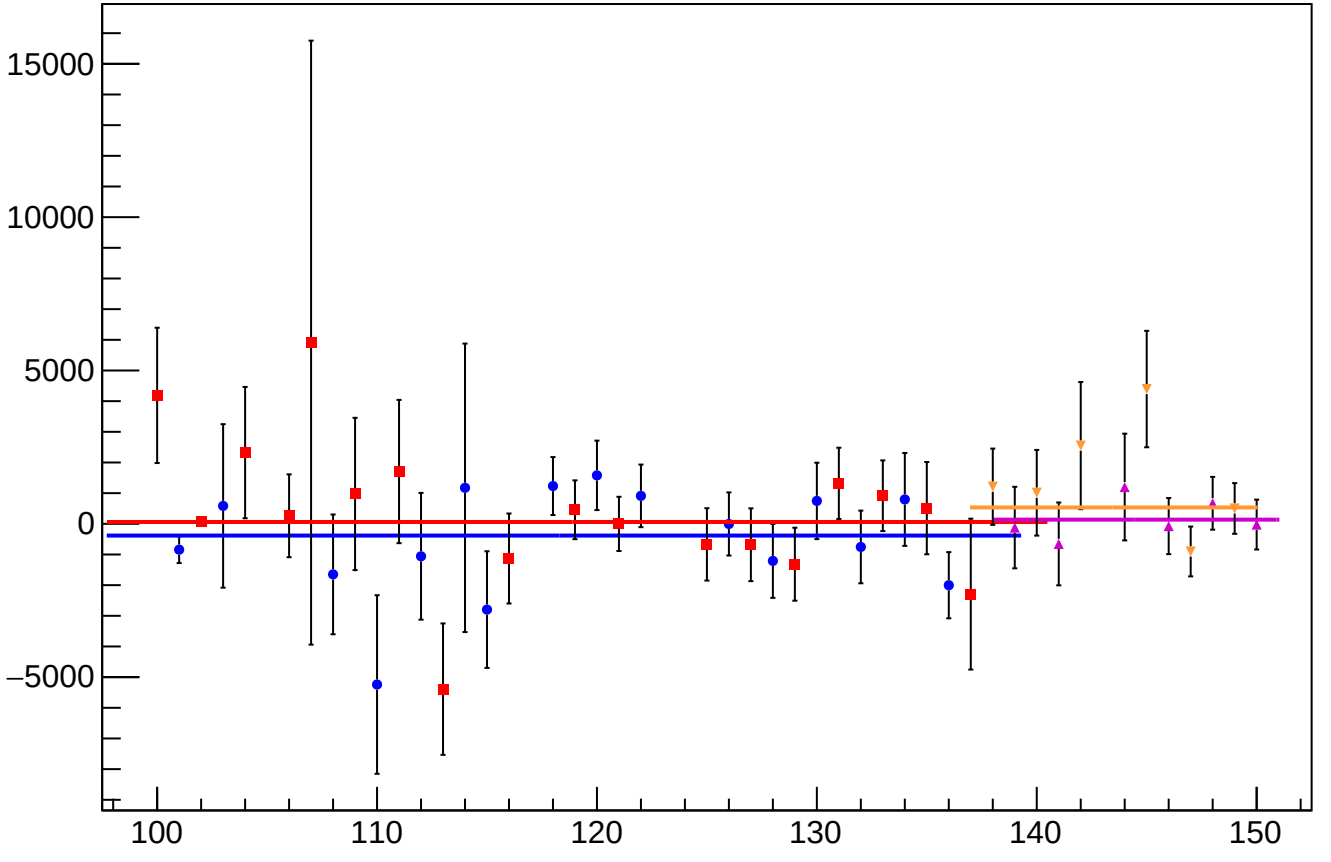
Right: 1559.818+/-0.290 $\chi^2$/NDF: 309801.2/33

In: 1508.229+/-0.302 $\chi^2$/NDF:138478.1/21

Out: 1541.508+/-0.318 $\chi^2$/NDF:201072.3/23

All: 1524.043+/-0.219 $\chi^2$/NDF: 345311.8/45

asym_usl_atl1_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -382.787+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 533.600+/-463.827 $\chi^2$/NDF:8.6/5

Right Out: 59.970+/-127.700 $\chi^2$/NDF: 17.8/17

Left In: 135.959+/-426.371 $\chi^2$/NDF:1.2/5

Left: 318.078+/-313.897 $\chi^2$/NDF: 10.3/11

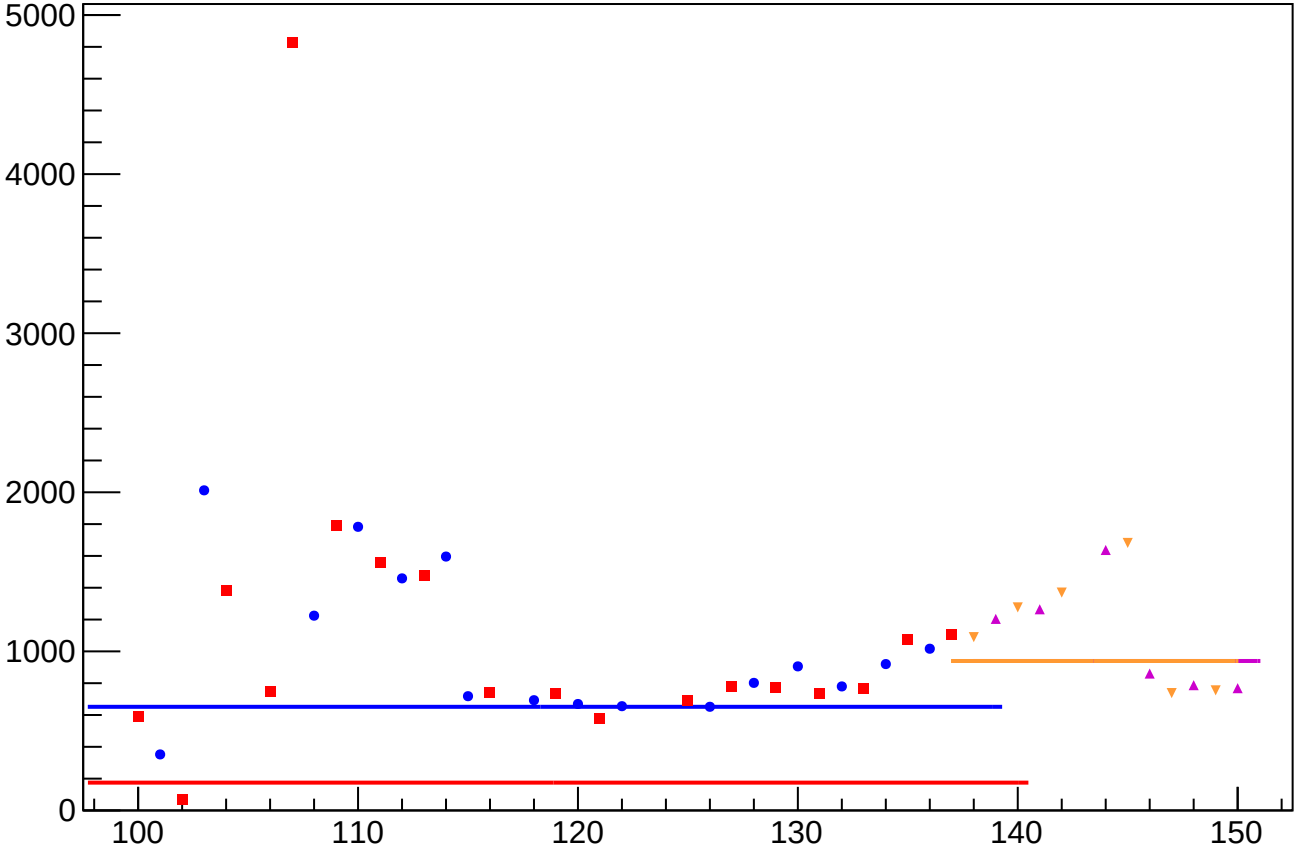
Right: -19.895+/-115.611 $\chi^2$/NDF: 38.1/33

In: -232.574+/-229.437 $\chi^2$/NDF:20.5/21

Out: 93.342+/-123.119 $\chi^2$/NDF:27.4/23

All: 20.475+/-108.487 $\chi^2$/NDF: 49.4/45

asym_usl_atl1_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 651.523+/-0.192 $\chi^2$/NDF: 2762656.2/15

Left Out: 939.494+/-0.328 $\chi^2$/NDF:760044.7/5

Right Out: 174.898+/-0.090 $\chi^2$/NDF: 9761228.2/17

Left In: 939.587+/-0.301 $\chi^2$/NDF:682347.4/5

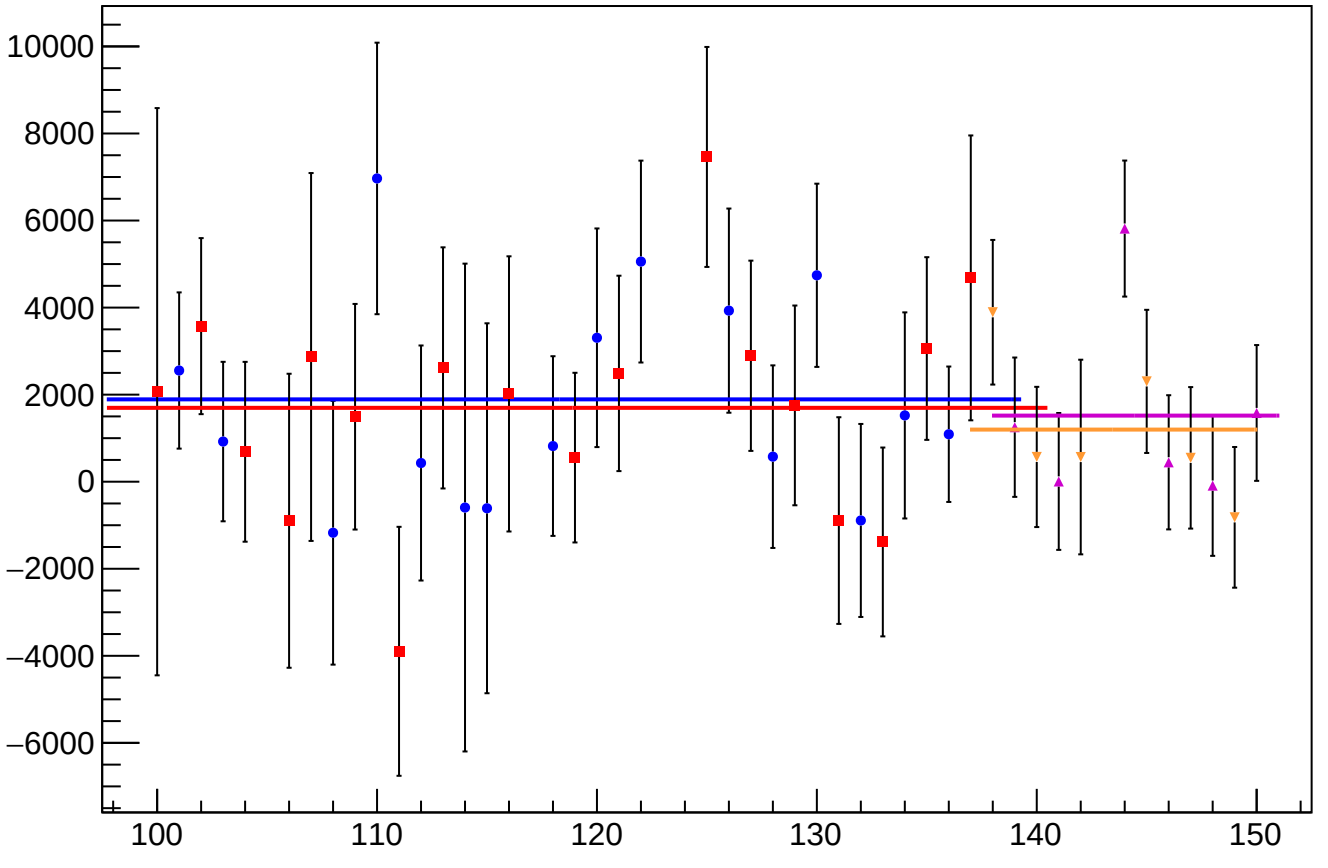
Left: 939.544+/-0.222 $\chi^2$/NDF: 1442392.2/11

Right: 260.873+/-0.082 $\chi^2$/NDF: 17549506.9/33

In: 734.937+/-0.162 $\chi^2$/NDF:4093571.7/21

Out: 228.772+/-0.087 $\chi^2$/NDF:15573111.9/23

All: 341.938+/-0.077 $\chi^2$/NDF: 27224354.0/45




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1197.290+/-693.566 $\chi^2$/NDF:5.0/5

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 1518.494+/-642.798 $\chi^2$/NDF:10.0/5

Left: 1370.077+/-471.454 $\chi^2$/NDF: 15.1/11

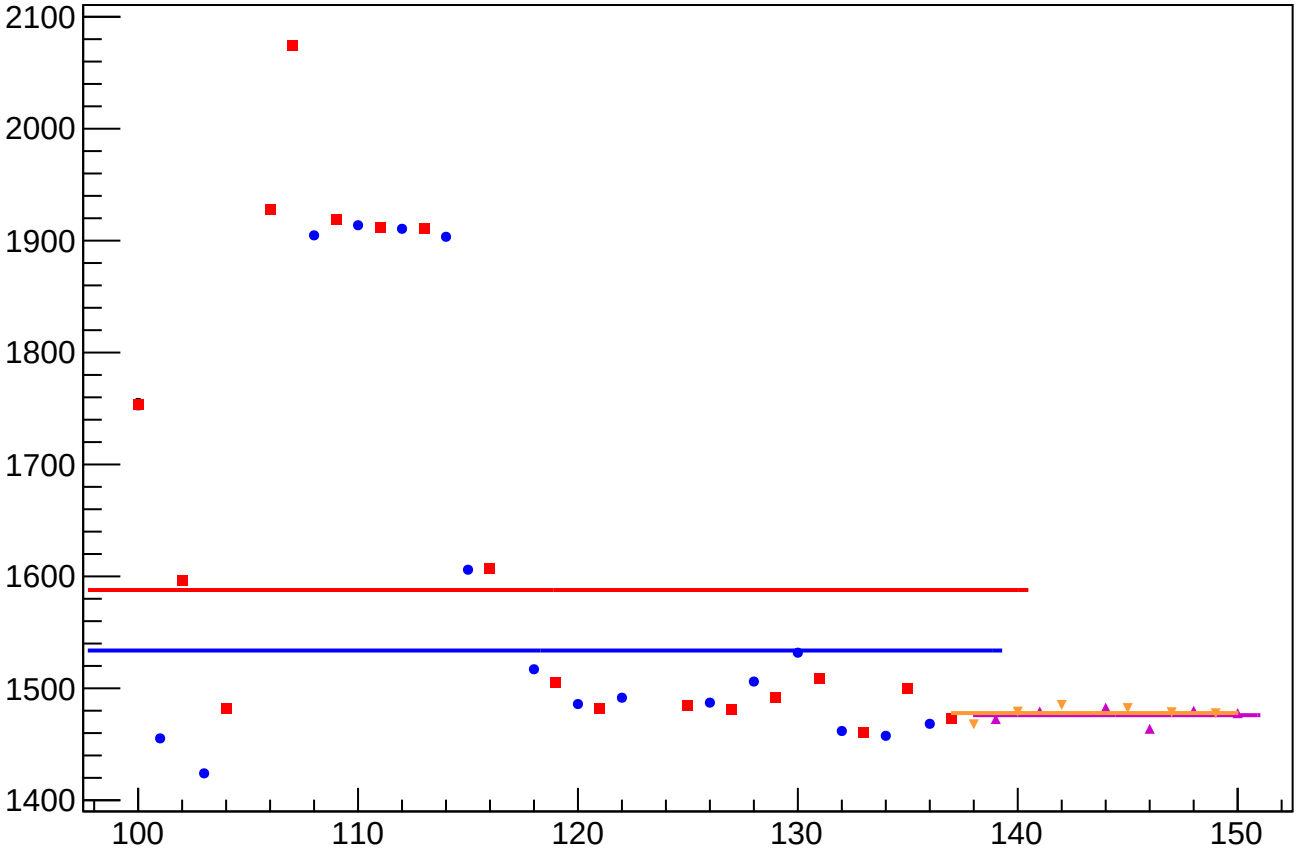
Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 1726.618+/-427.414 $\chi^2$/NDF:22.4/21

Out: 1487.321+/-449.261 $\chi^2$/NDF:21.5/23

All: 1612.929+/-309.663 $\chi^2$/NDF: 44.0/45

# cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1477.902+/-0.490 $\chi^2$/NDF:110.6/5

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1476.001+/-0.455 $\chi^2$/NDF:194.7/5

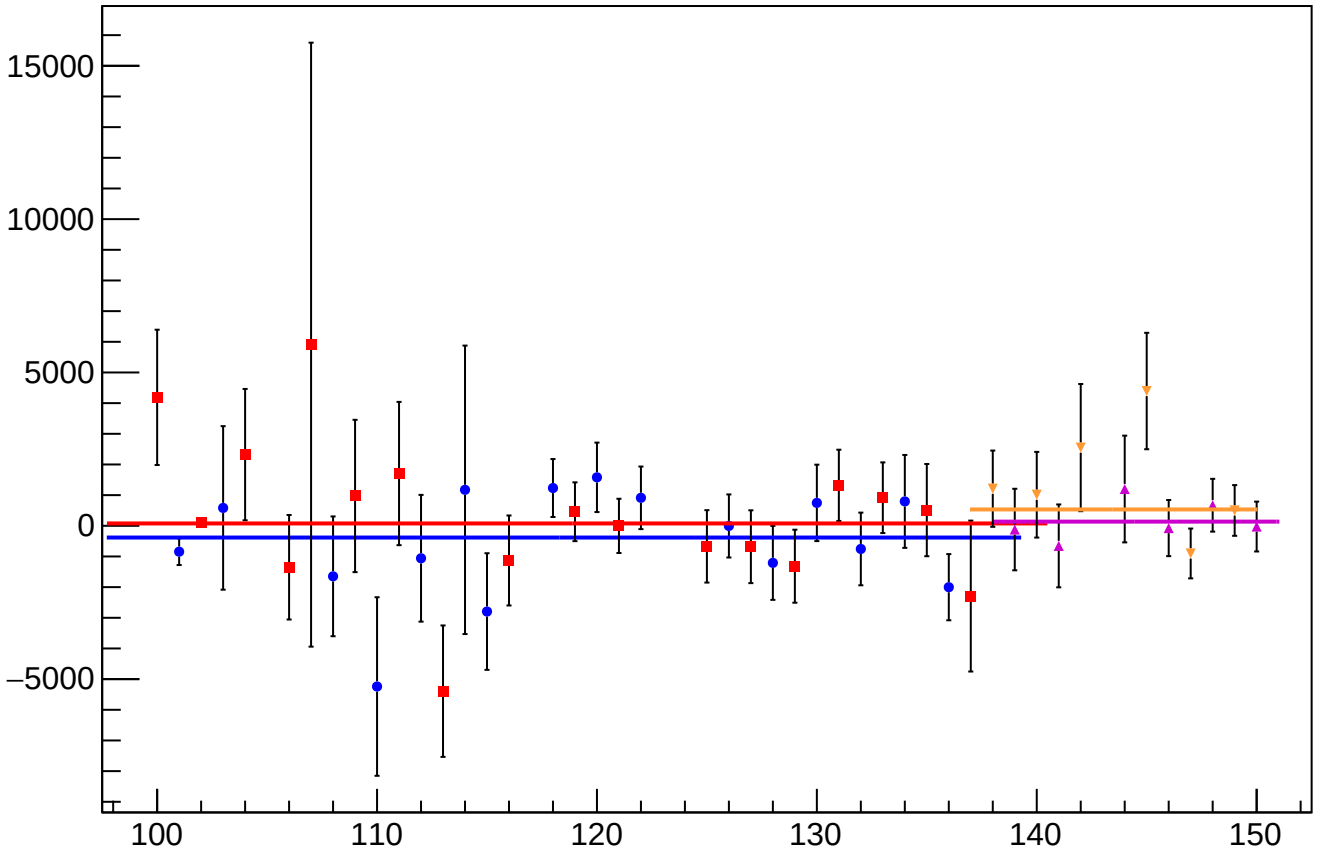
Left: 1476.880+/-0.333 $\chi^2$/NDF: 313.4/11

Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1508.229+/-0.302 $\chi^2$/NDF:138478.0/21

Out: 1541.715+/-0.318 $\chi^2$/NDF:203047.3/23

All: 1524.138+/-0.219 $\chi^2$/NDF: 347357.6/45




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 533.361+/-463.831 $\chi^2$/NDF:8.6/5

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: 136.030+/-426.368 $\chi^2$/NDF:1.2/5

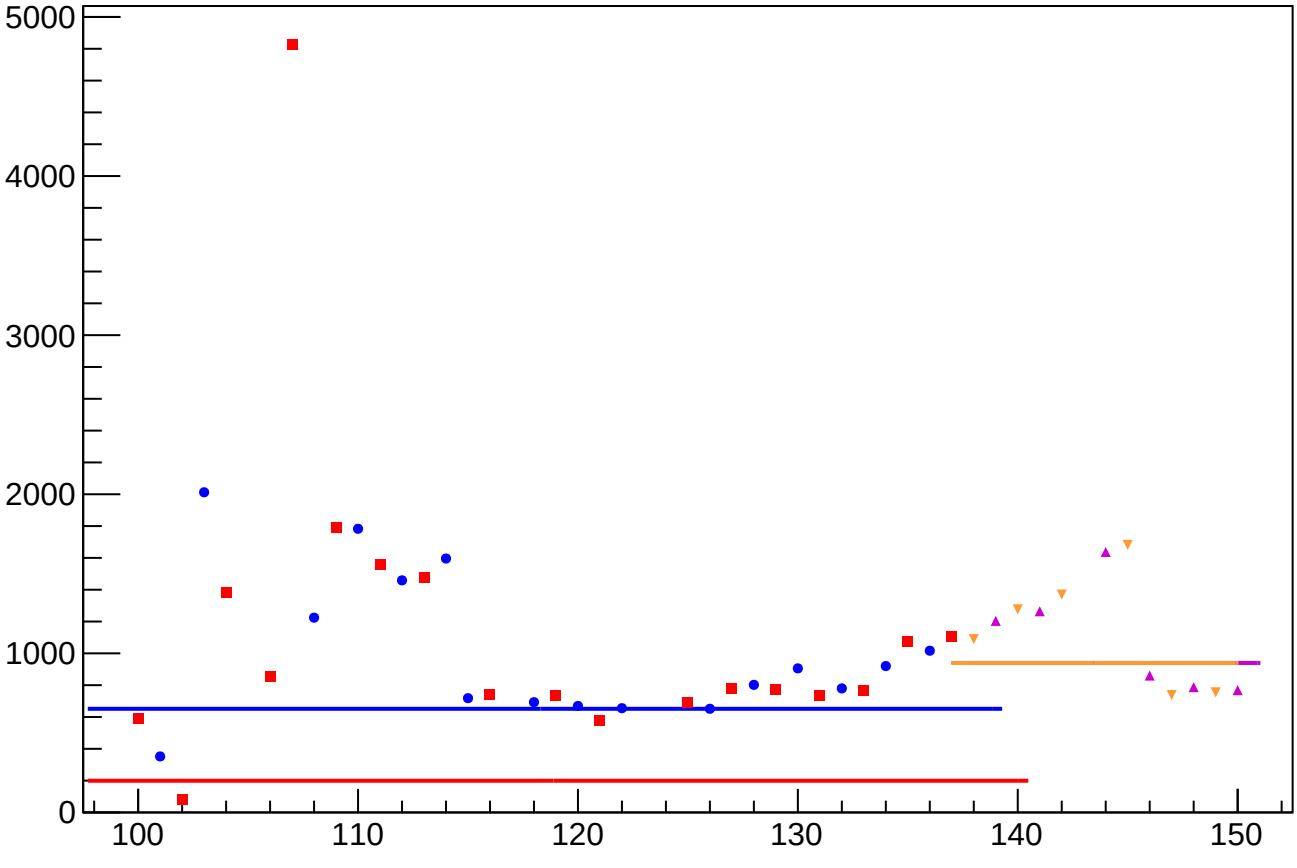
Left: 318.004+/-313.898 $\chi^2$/NDF: 10.3/11

Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -232.534+/-229.437 $\chi^2$/NDF:20.5/21

Out: 113.954+/-132.391 $\chi^2$/NDF:28.0/23

All: 27.405+/-114.670 $\chi^2$/NDF: 50.2/45




Right In: 651.521+/-0.192 $\chi^2$/NDF: 2762681.5/15

Left Out: 939.504+/-0.328 $\chi^2$/NDF:760022.4/5

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 939.581+/-0.301 $\chi^2$/NDF:682359.7/5

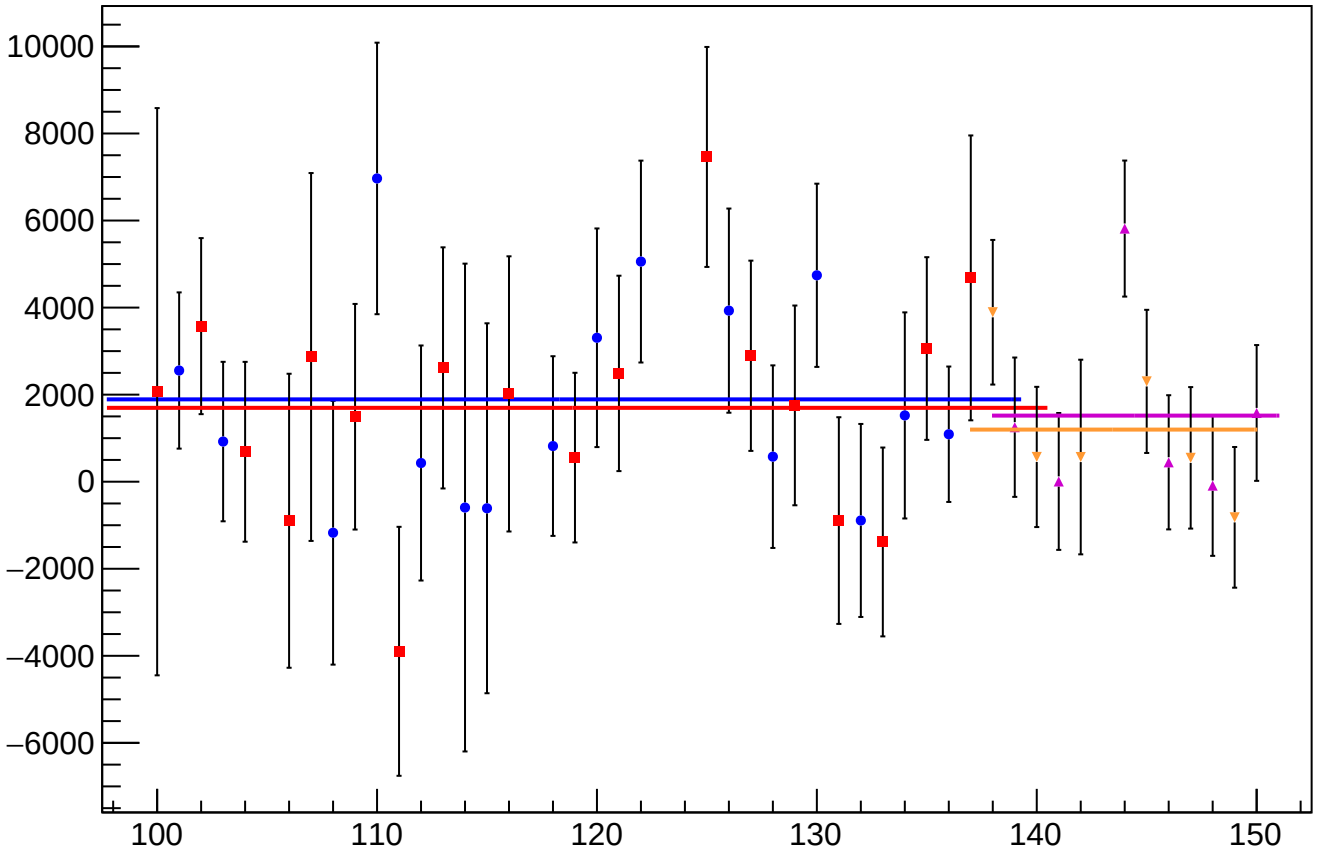
Left: 939.546+/-0.222 $\chi^2$/NDF: 1442382.1/11

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 734.935+/-0.162 $\chi^2$/NDF:4093595.4/21

Out: 259.644+/-0.094 $\chi^2$/NDF:14722760.4/23

All: 378.366+/-0.081 $\chi^2$/NDF: 25255196.3/45




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1197.290+/-693.566 $\chi^2$/NDF:5.0/5

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 1518.494+/-642.798 $\chi^2$/NDF:10.0/5

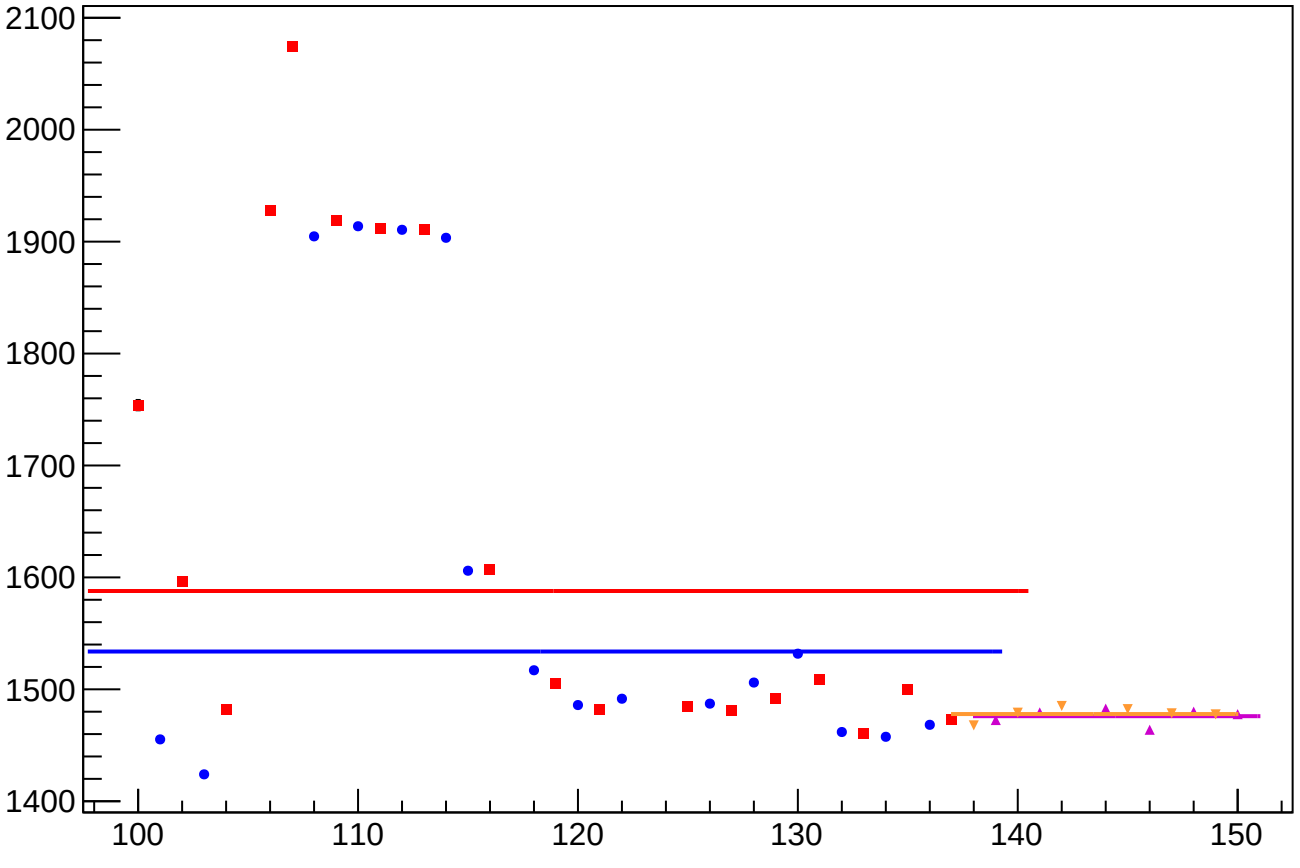
Left: 1370.077+/-471.454 $\chi^2$/NDF: 15.1/11

Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 1726.618+/-427.414 $\chi^2$/NDF:22.4/21

Out: 1487.321+/-449.261 $\chi^2$/NDF:21.5/23

All: 1612.929+/-309.663 $\chi^2$/NDF: 44.0/45




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1477.902+/-0.490 $\chi^2$/NDF:110.6/5

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1476.001+/-0.455 $\chi^2$/NDF:194.7/5

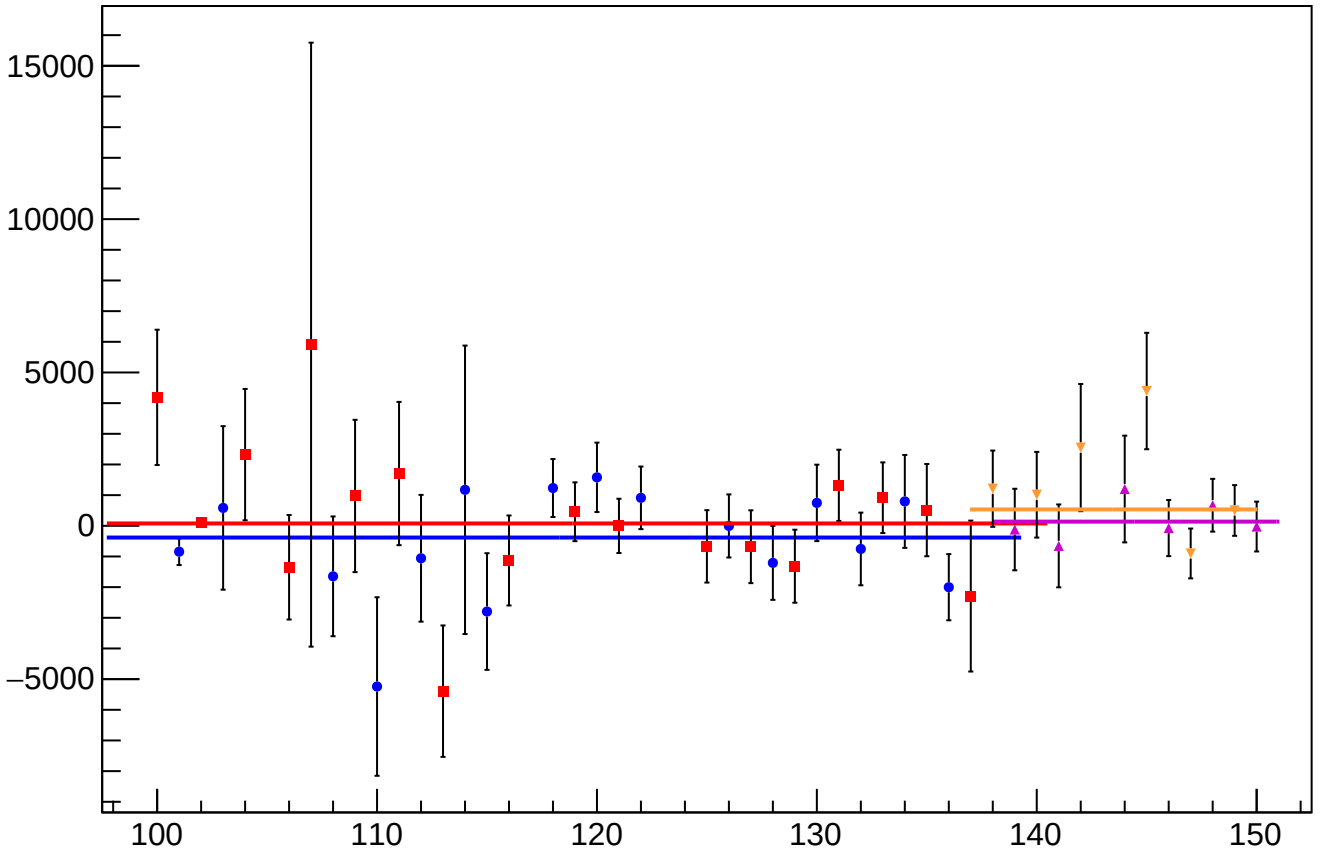
Left: 1476.880+/-0.333 $\chi^2$/NDF: 313.4/11

Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1508.229+/-0.302 $\chi^2$/NDF:138478.0/21

Out: 1541.715+/-0.318 $\chi^2$/NDF:203047.3/23

All: 1524.138+/-0.219 $\chi^2$/NDF: 347357.6/45




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 533.361+/-463.831 $\chi^2$/NDF:8.6/5

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: 136.030+/-426.368 $\chi^2$/NDF:1.2/5

Left: 318.004+/-313.898 $\chi^2$/NDF: 10.3/11

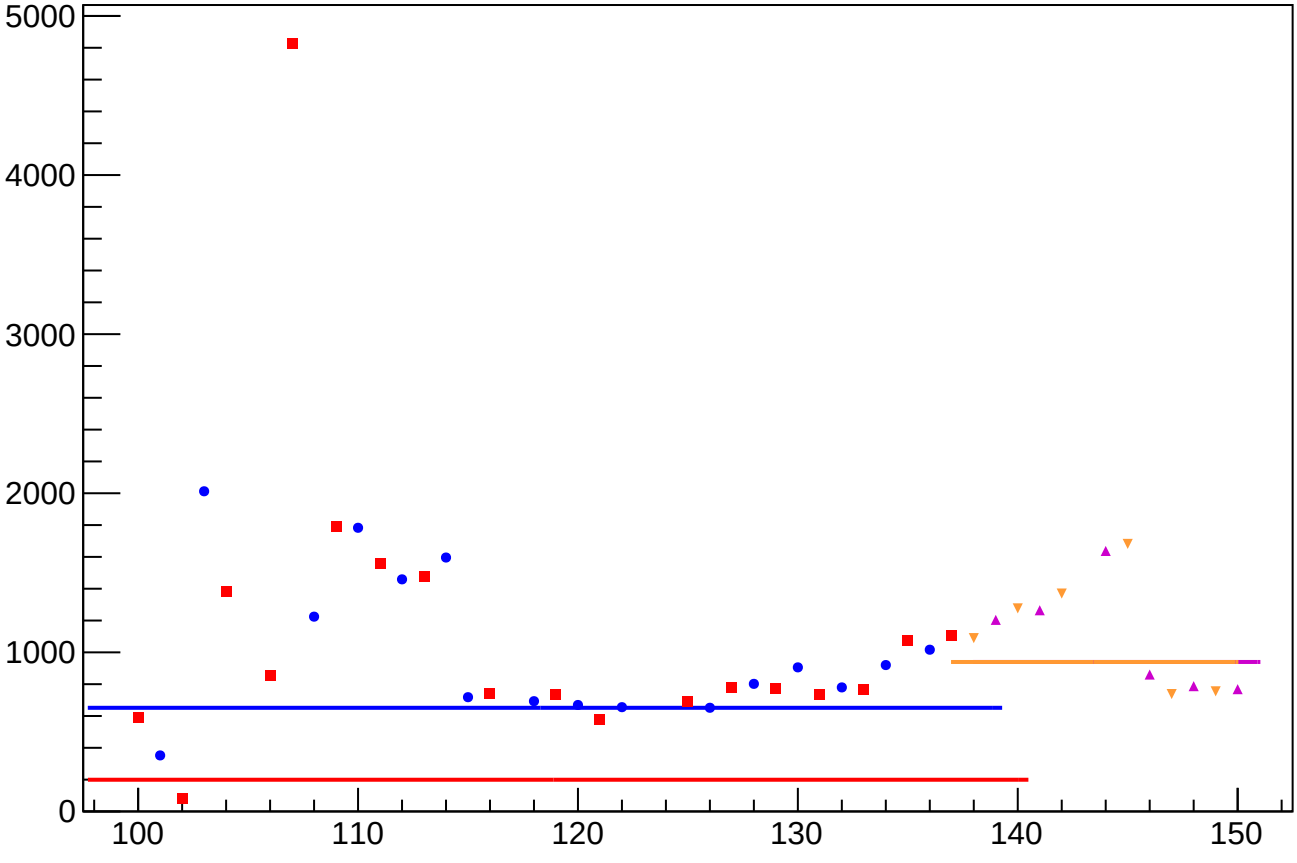
Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -232.534+/-229.437 $\chi^2$/NDF:20.5/21

Out: 113.954+/-132.391 $\chi^2$/NDF:28.0/23

All: 27.405+/-114.670 $\chi^2$/NDF: 50.2/45

asym_usl_atl1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 651.521+/-0.192 $\chi^2$/NDF: 2762681.5/15

Left Out: 939.504+/-0.328 $\chi^2$/NDF:760022.4/5

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 939.581+/-0.301 $\chi^2$/NDF:682359.7/5

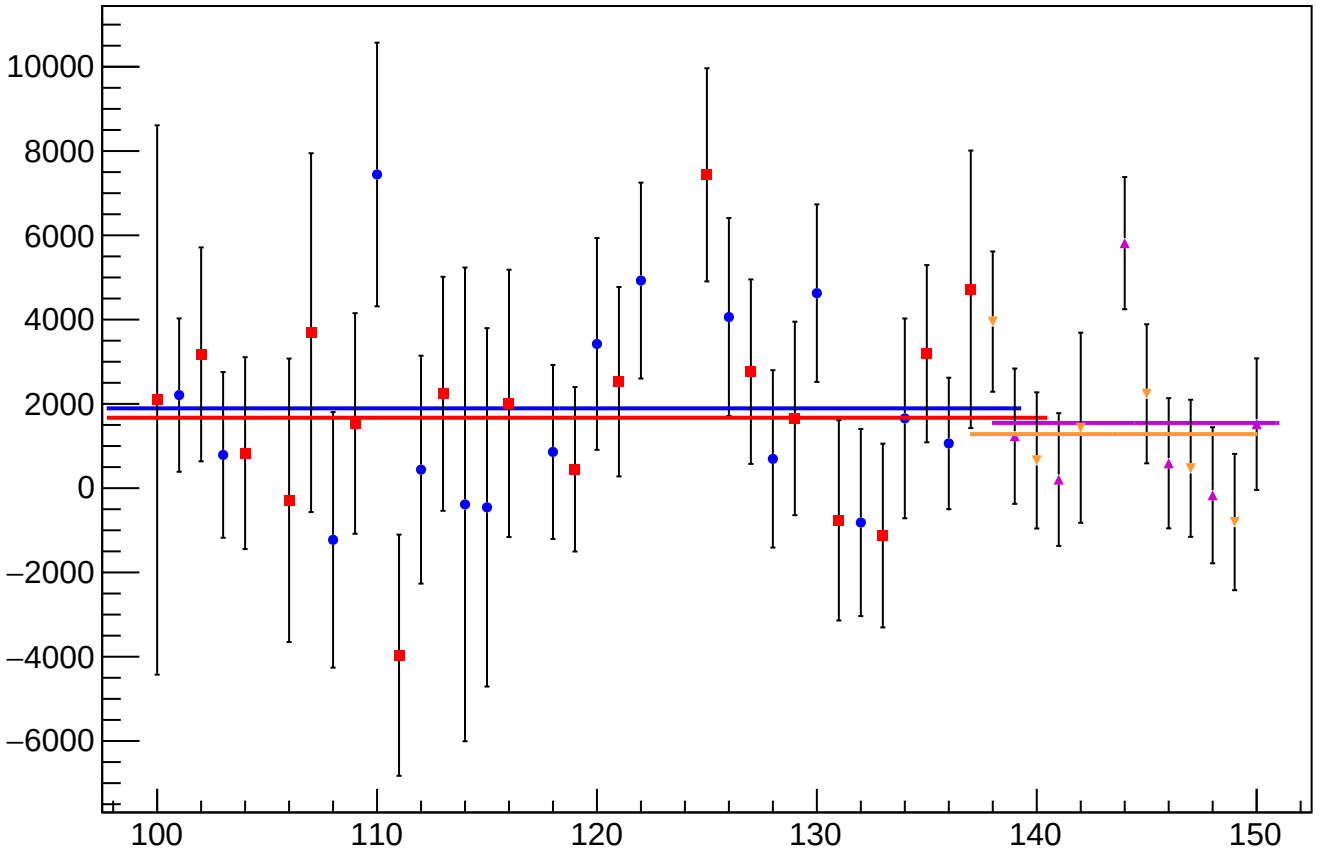
Left: 939.546+/-0.222 $\chi^2$/NDF: 1442382.1/11

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 734.935+/-0.162 $\chi^2$/NDF:4093595.4/21

Out: 259.644+/-0.094 $\chi^2$/NDF:14722760.4/23

All: 378.366+/-0.081 $\chi^2$/NDF: 25255196.3/45




Right In: 1894.171+/-577.631 $\chi^2$/NDF: 12.3/15

Left Out: 1282.737+/-695.412 $\chi^2$/NDF:5.0/5

Right Out: 1670.933+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 1548.321+/-644.080 $\chi^2$/NDF:9.7/5

Left: 1425.692+/-472.540 $\chi^2$/NDF: 14.7/11

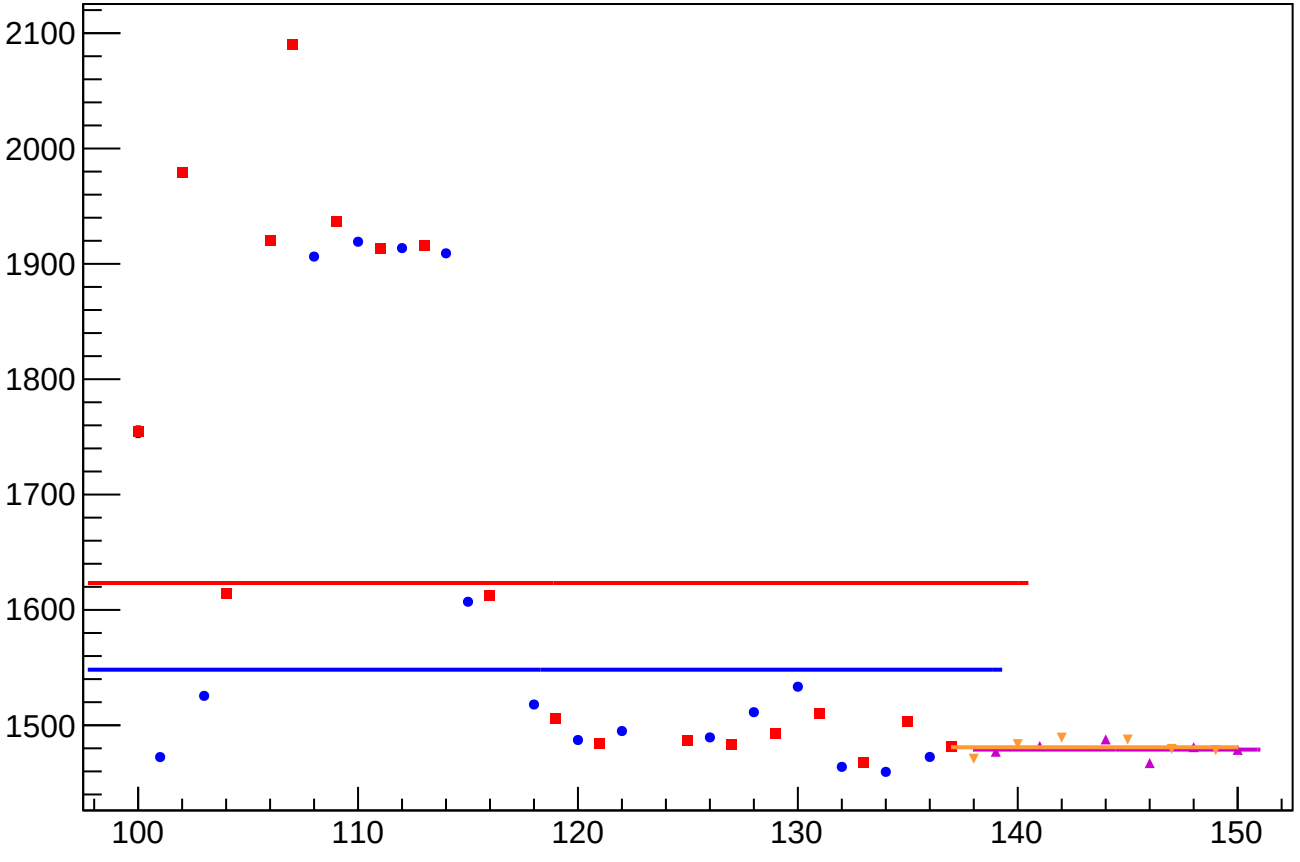
Right: 1787.686+/-417.734 $\chi^2$/NDF: 27.4/33

In: 1740.002+/-430.027 $\chi^2$/NDF:22.1/21

Out: 1503.746+/-456.371 $\chi^2$/NDF:20.2/23

All: 1628.889+/-312.974 $\chi^2$/NDF: 42.5/45

# dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.3/15

Left Out: 1480.923+/-0.492 $\chi^2$/NDF:142.9/5

Right Out: 1623.331+/-0.428 $\chi^2$/NDF: 211534.0/17

Left In: 1478.902+/-0.455 $\chi^2$/NDF:192.0/5

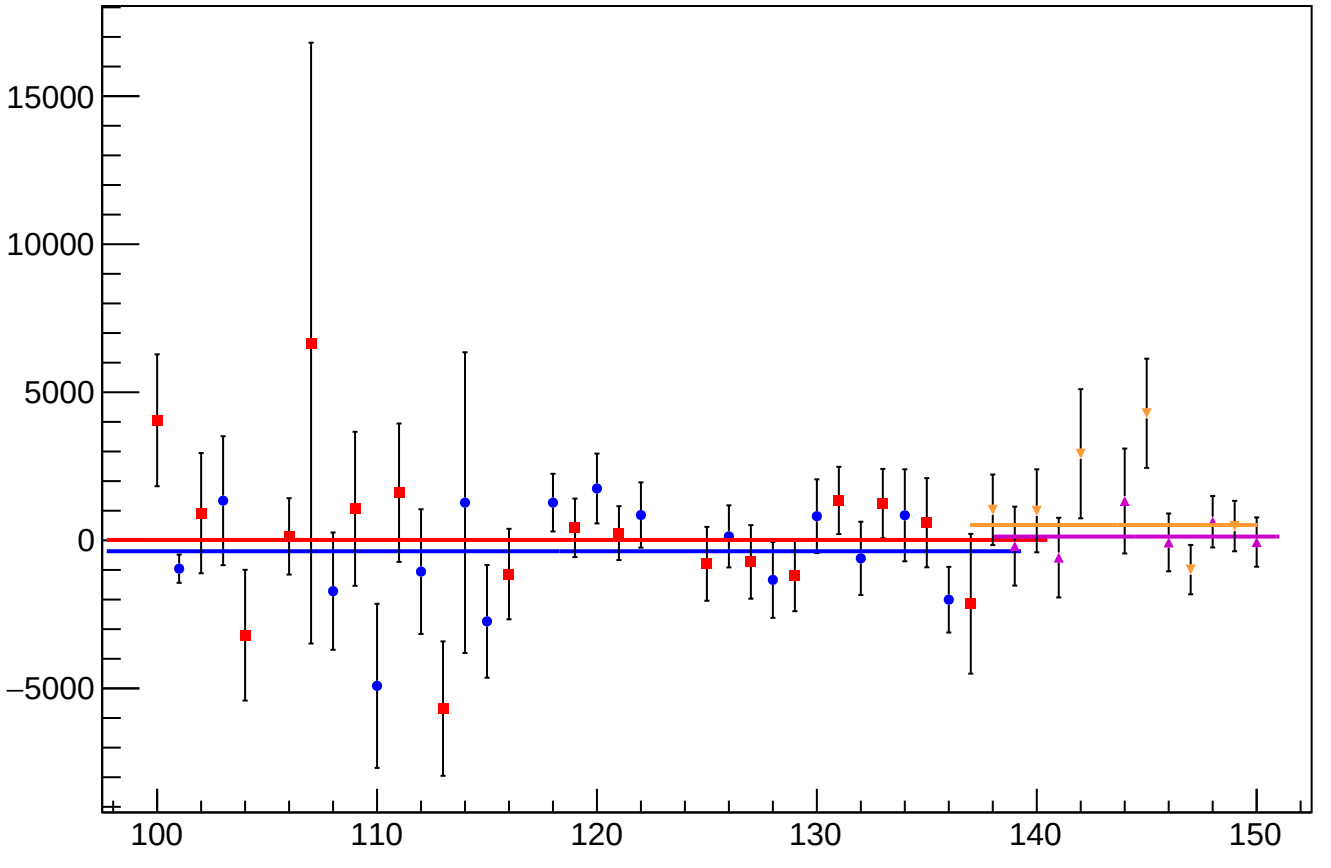
Left: 1479.835+/-0.334 $\chi^2$/NDF: 343.9/11

Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.8/33

In: 1517.295+/-0.304 $\chi^2$/NDF:132919.1/21

Out: 1561.999+/-0.323 $\chi^2$/NDF:259426.8/23

All: 1538.319+/-0.221 $\chi^2$/NDF: 402510.9/45




Right In: -368.708+/-286.577 $\chi^2$/NDF: 18.9/15

Left Out: 518.084+/-469.287 $\chi^2$/NDF:9.0/5

Right Out: 13.729+/-341.569 $\chi^2$/NDF: 19.1/17

Left In: 126.718+/-436.412 $\chi^2$/NDF:1.2/5

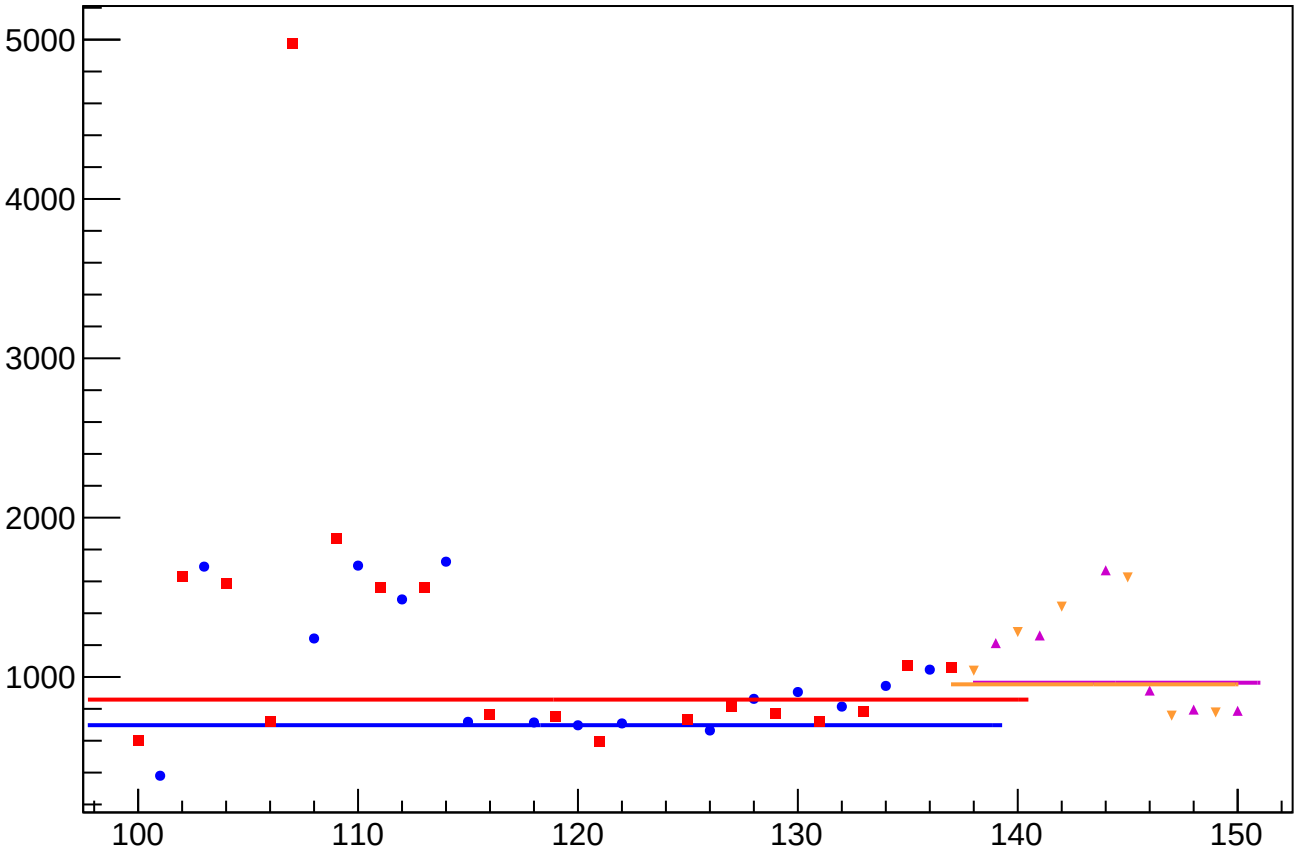
Left: 308.214+/-319.581 $\chi^2$/NDF: 10.6/11

Right: -210.716+/-219.541 $\chi^2$/NDF: 38.7/33

In: -219.441+/-239.546 $\chi^2$/NDF:21.0/21

Out: 188.389+/-276.164 $\chi^2$/NDF:28.8/23

All: -44.339+/-180.956 $\chi^2$/NDF: 51.1/45




Right In: 697.517+/-0.203 $\chi^2$/NDF: 2435601.0/15

Left Out: 953.906+/-0.332 $\chi^2$/NDF:682194.9/5

Right Out: 858.095+/-0.242 $\chi^2$/NDF: 1882164.5/17

Left In: 964.055+/-0.309 $\chi^2$/NDF:654256.6/5

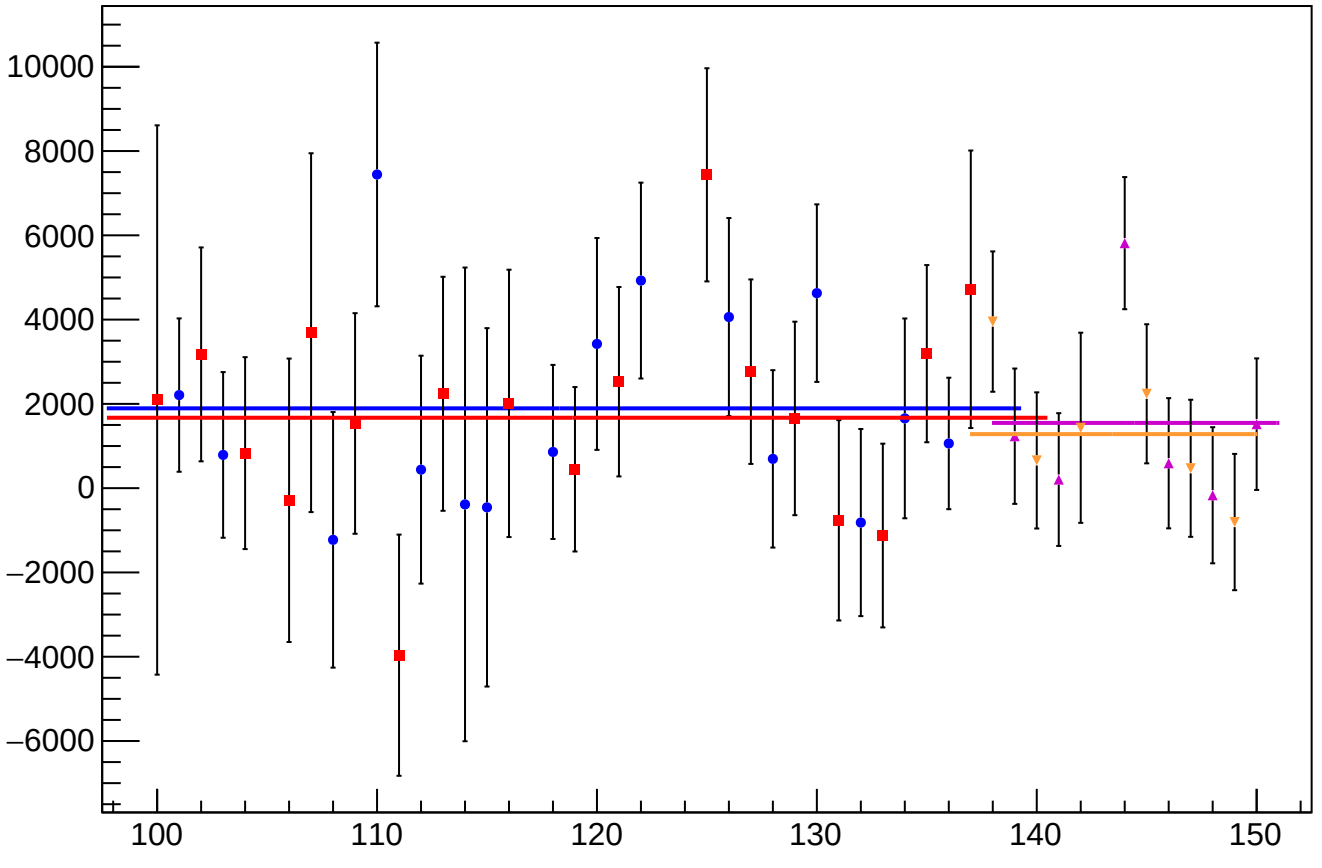
Left: 959.349+/-0.226 $\chi^2$/NDF: 1336953.2/11

Right: 763.855+/-0.155 $\chi^2$/NDF: 4577183.5/33

In: 777.822+/-0.169 $\chi^2$/NDF:3611118.1/21

Out: 891.275+/-0.195 $\chi^2$/NDF:2618854.9/23

All: 826.533+/-0.128 $\chi^2$/NDF: 6422591.0/45




Right In: 1894.169+/-577.630 $\chi^2$/NDF: 12.3/15

Left Out: 1282.739+/-695.412 $\chi^2$/NDF:5.0/5

Right Out: 1670.931+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 1548.322+/-644.080 $\chi^2$/NDF:9.7/5

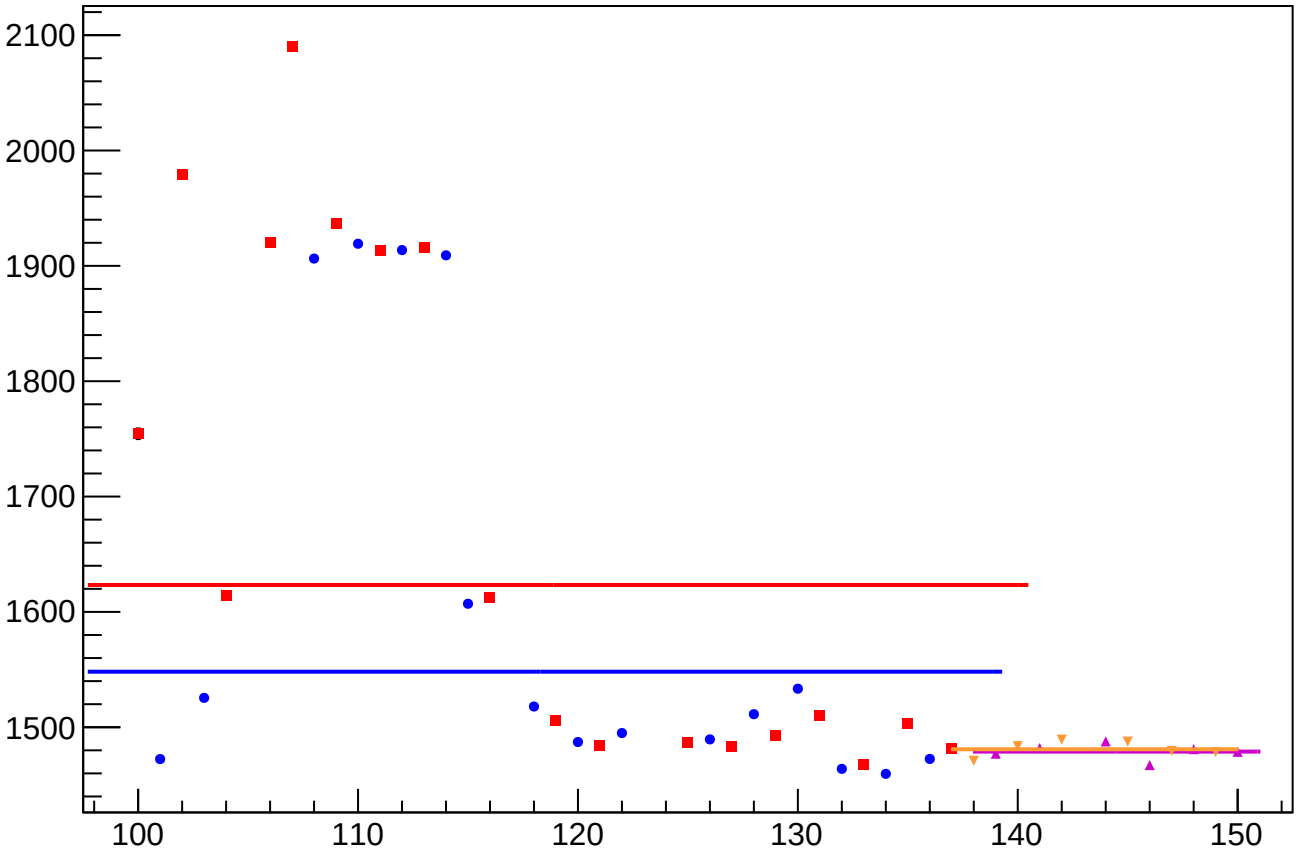
Left: 1425.693+/-472.540 $\chi^2$/NDF: 14.7/11

Right: 1787.684+/-417.734 $\chi^2$/NDF: 27.4/33

In: 1740.001+/-430.027 $\chi^2$/NDF:22.1/21

Out: 1503.745+/-456.371 $\chi^2$/NDF:20.2/23

All: 1628.889+/-312.974 $\chi^2$/NDF: 42.5/45




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.4/15

Left Out: 1480.923+/-0.492 $\chi^2$/NDF:142.9/5

Right Out: 1623.330+/-0.428 $\chi^2$/NDF: 211533.9/17

Left In: 1478.902+/-0.455 $\chi^2$/NDF:192.0/5

Left: 1479.835+/-0.334 $\chi^2$/NDF: 343.9/11

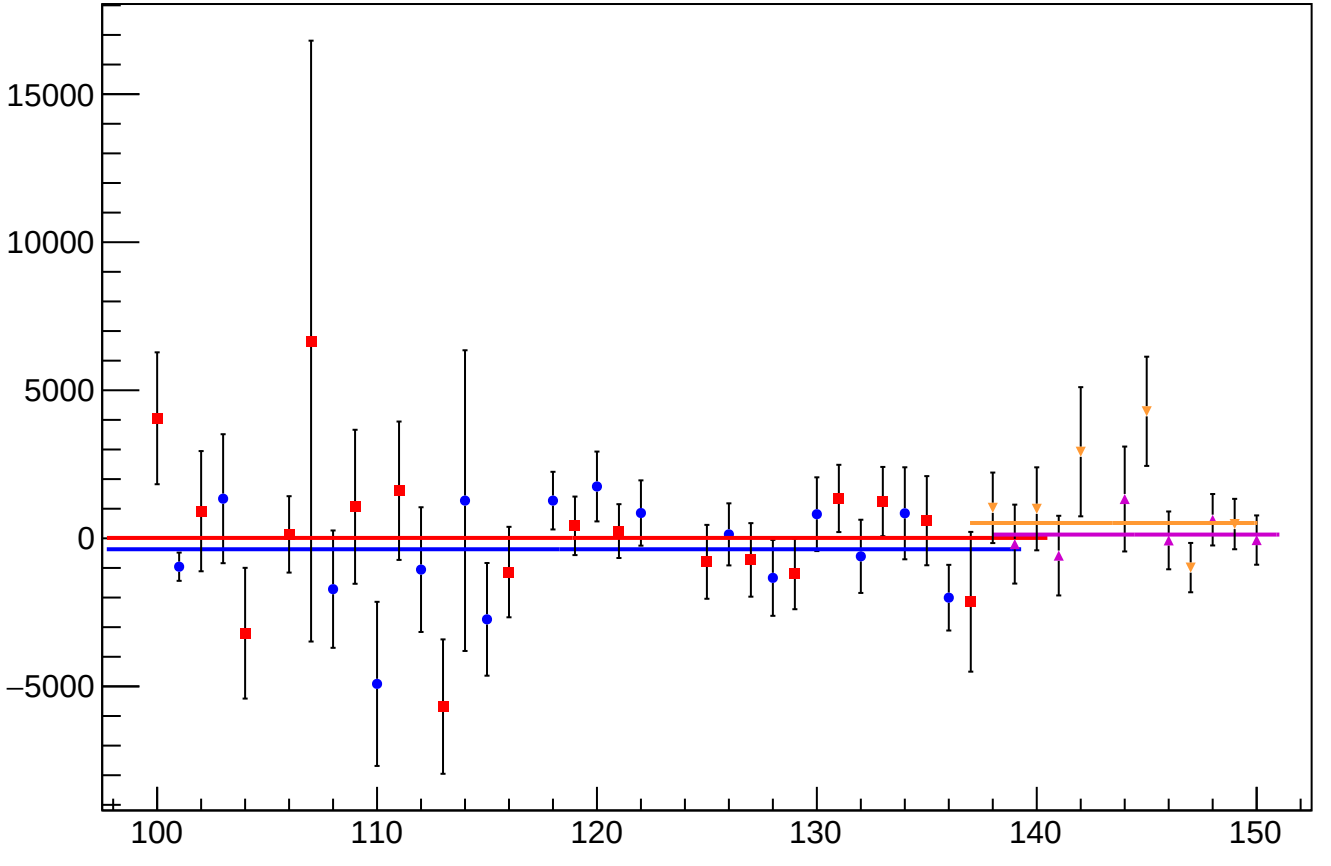
Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.7/33

In: 1517.295+/-0.304 $\chi^2$/NDF:132919.1/21

Out: 1561.999+/-0.323 $\chi^2$/NDF:259426.4/23

All: 1538.319+/-0.221 $\chi^2$/NDF: 402510.5/45

asym_usl_atl1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -368.707+/-286.576 $\chi^2$/NDF: 18.9/15

Left Out: 518.083+/-469.288 $\chi^2$/NDF:9.0/5

Right Out: 13.730+/-341.568 $\chi^2$/NDF: 19.1/17

Left In: 126.719+/-436.413 $\chi^2$/NDF:1.2/5

Left: 308.214+/-319.581 $\chi^2$/NDF: 10.6/11

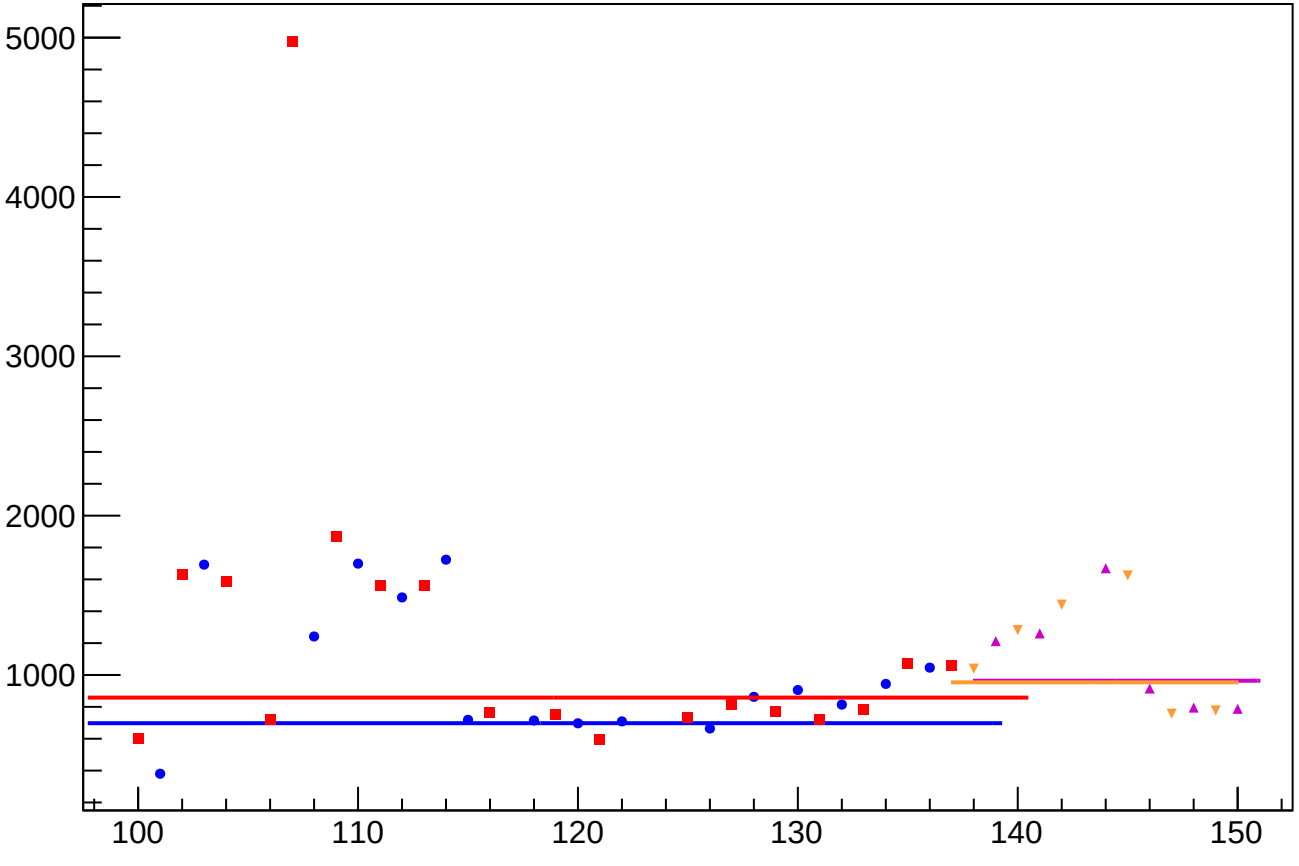
Right: -210.715+/-219.541 $\chi^2$/NDF: 38.7/33

In: -219.441+/-239.546 $\chi^2$/NDF:21.0/21

Out: 188.388+/-276.164 $\chi^2$/NDF:28.8/23

All: -44.338+/-180.956 $\chi^2$/NDF: 51.1/45

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 697.517+/-0.203 $\chi^2$/NDF: 2435593.9/15

Left Out: 953.908+/-0.332 $\chi^2$/NDF:682194.0/5

Right Out: 858.094+/-0.242 $\chi^2$/NDF: 1882174.1/17

Left In: 964.057+/-0.309 $\chi^2$/NDF:654255.1/5

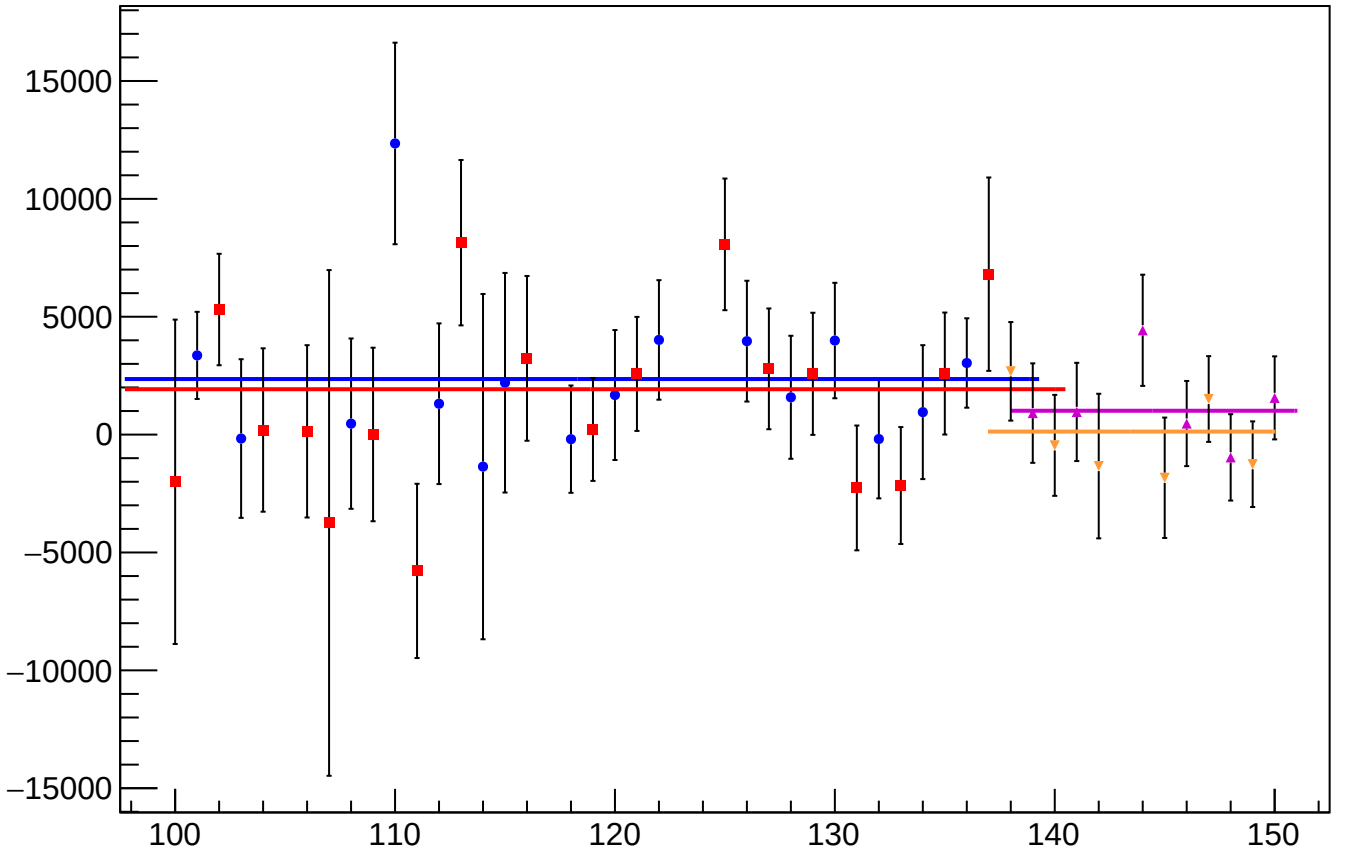
Left: 959.351+/-0.226 $\chi^2$/NDF: 1336950.7/11

Right: 763.854+/-0.155 $\chi^2$/NDF: 4577181.2/33

In: 777.822+/-0.169 $\chi^2$/NDF:3611115.1/21

Out: 891.274+/-0.195 $\chi^2$/NDF:2618867.2/23

All: 826.533+/-0.128 $\chi^2$/NDF: 6422597.0/45




Right In: 2356.998+/-678.944 $\chi^2$/NDF: 11.0/15

Left Out: 128.120+/-873.121 $\chi^2$/NDF:3.5/5

Right Out: 1924.824+/-706.809 $\chi^2$/NDF: 23.4/17

Left In: 1011.879+/-800.263 $\chi^2$/NDF:3.4/5

Left: 608.405+/-589.950 $\chi^2$/NDF: 7.5/11

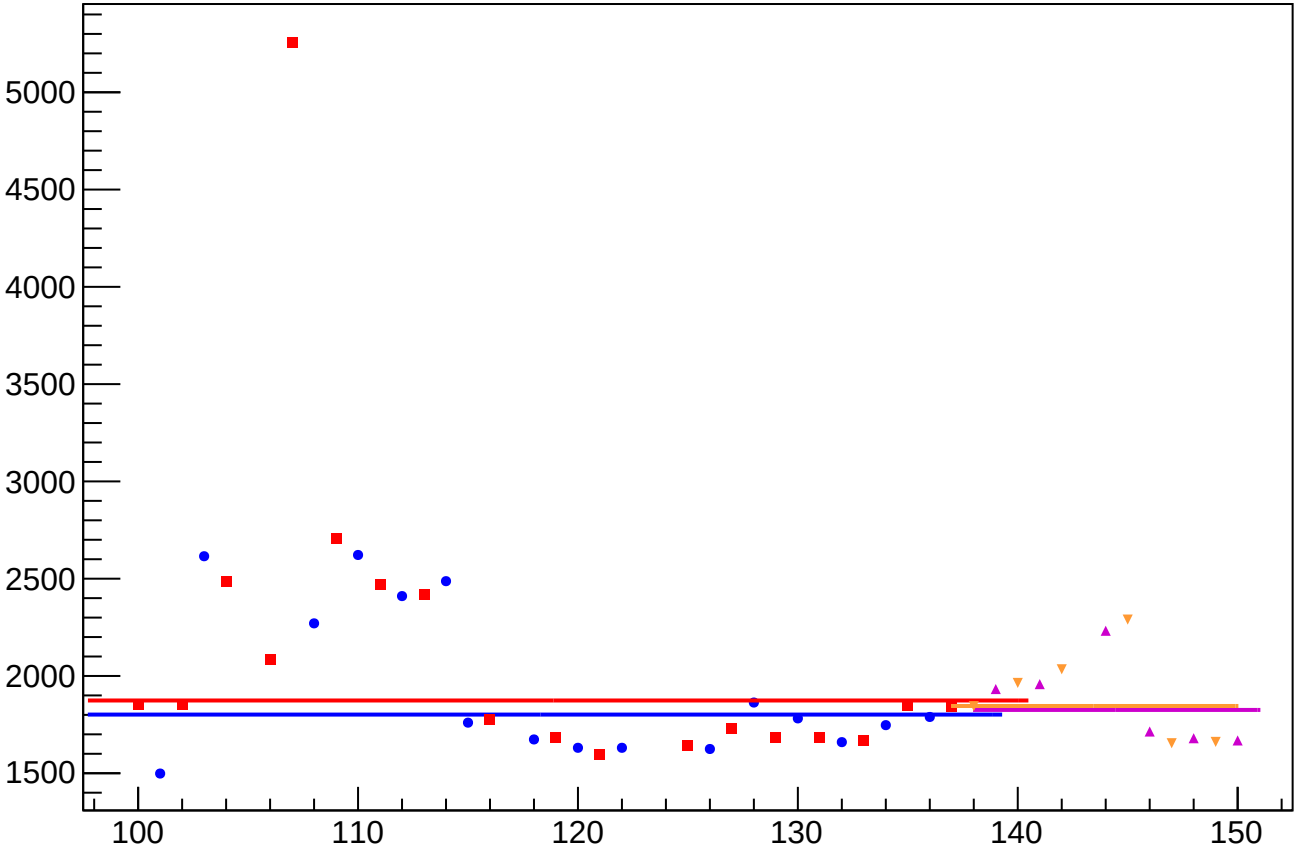
Right: 2149.598+/-489.640 $\chi^2$/NDF: 34.6/33

In: 1794.023+/-517.722 $\chi^2$/NDF:16.1/21

Out: 1213.530+/-549.365 $\chi^2$/NDF:29.5/23

All: 1520.975+/-376.775 $\chi^2$/NDF: 46.2/45

# asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1801.529+/-0.480 $\chi^2$/NDF: 400702.5/15

Left Out: 1845.697+/-0.617 $\chi^2$/NDF:116985.5/5

Right Out: 1873.976+/-0.500 $\chi^2$/NDF: 569909.0/17

Left In: 1825.405+/-0.566 $\chi^2$/NDF:108829.3/5

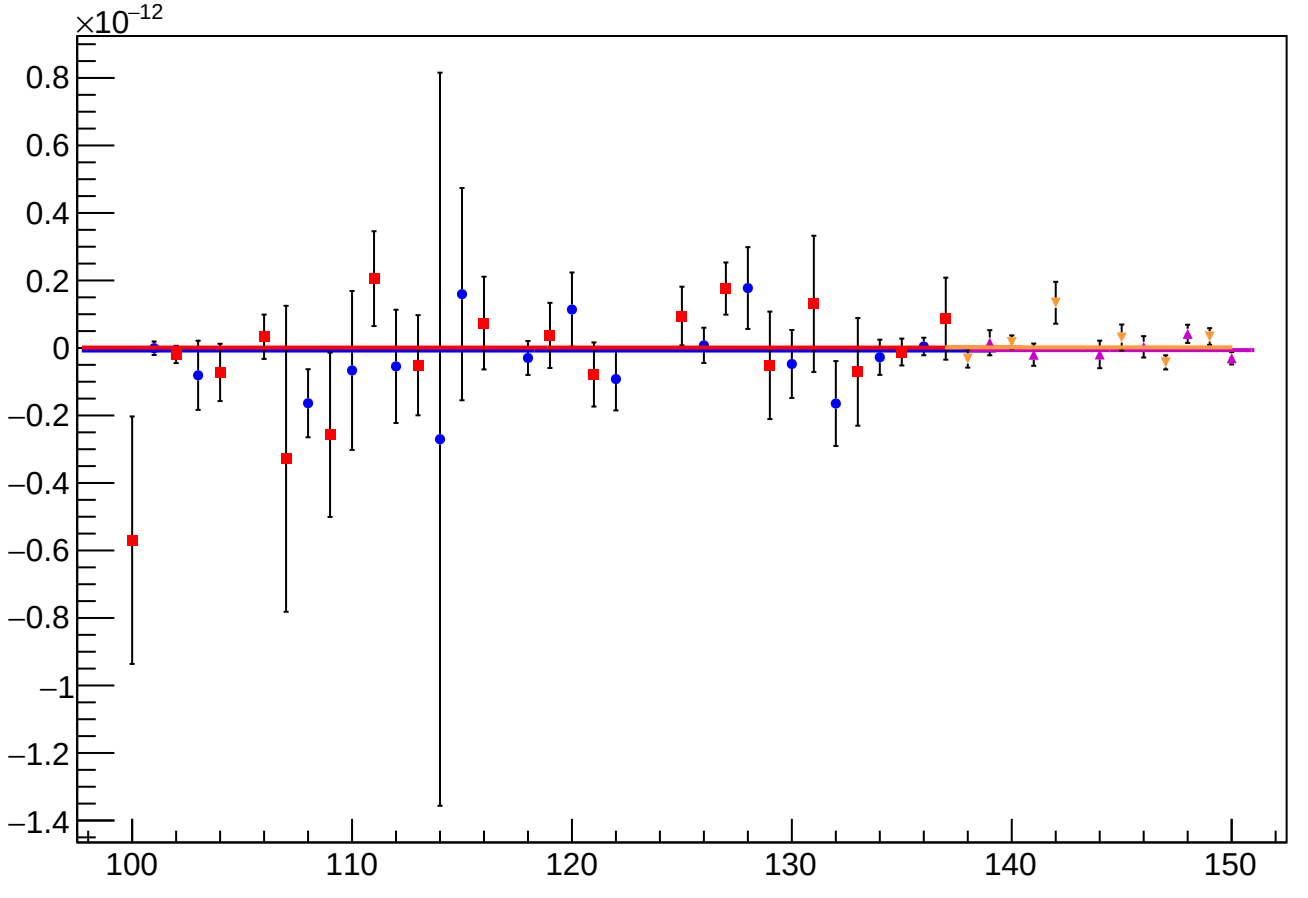
Left: 1834.669+/-0.417 $\chi^2$/NDF: 226401.9/11

Right: 1836.296+/-0.346 $\chi^2$/NDF: 981540.0/33

In: 1811.522+/-0.366 $\chi^2$/NDF:510567.0/21

Out: 1862.781+/-0.388 $\chi^2$/NDF:688162.0/23

All: 1835.633+/-0.266 $\chi^2$/NDF: 1207950.9/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.4/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.6/5

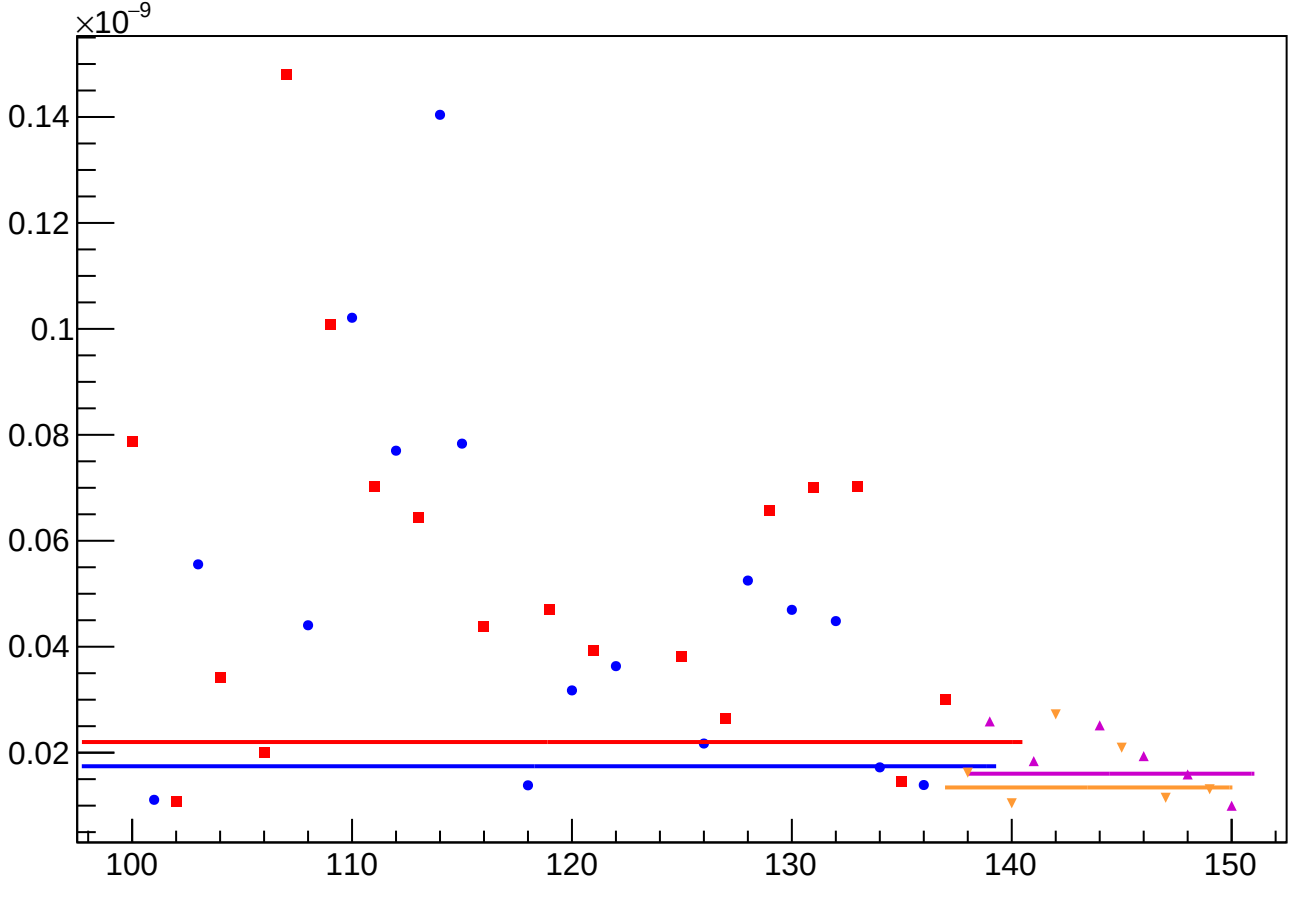
Left: -0.000+/-0.000 $\chi^2$/NDF: 19.3/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:15.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.4/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1840069.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:258989.2/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2098640.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:489221.9/5

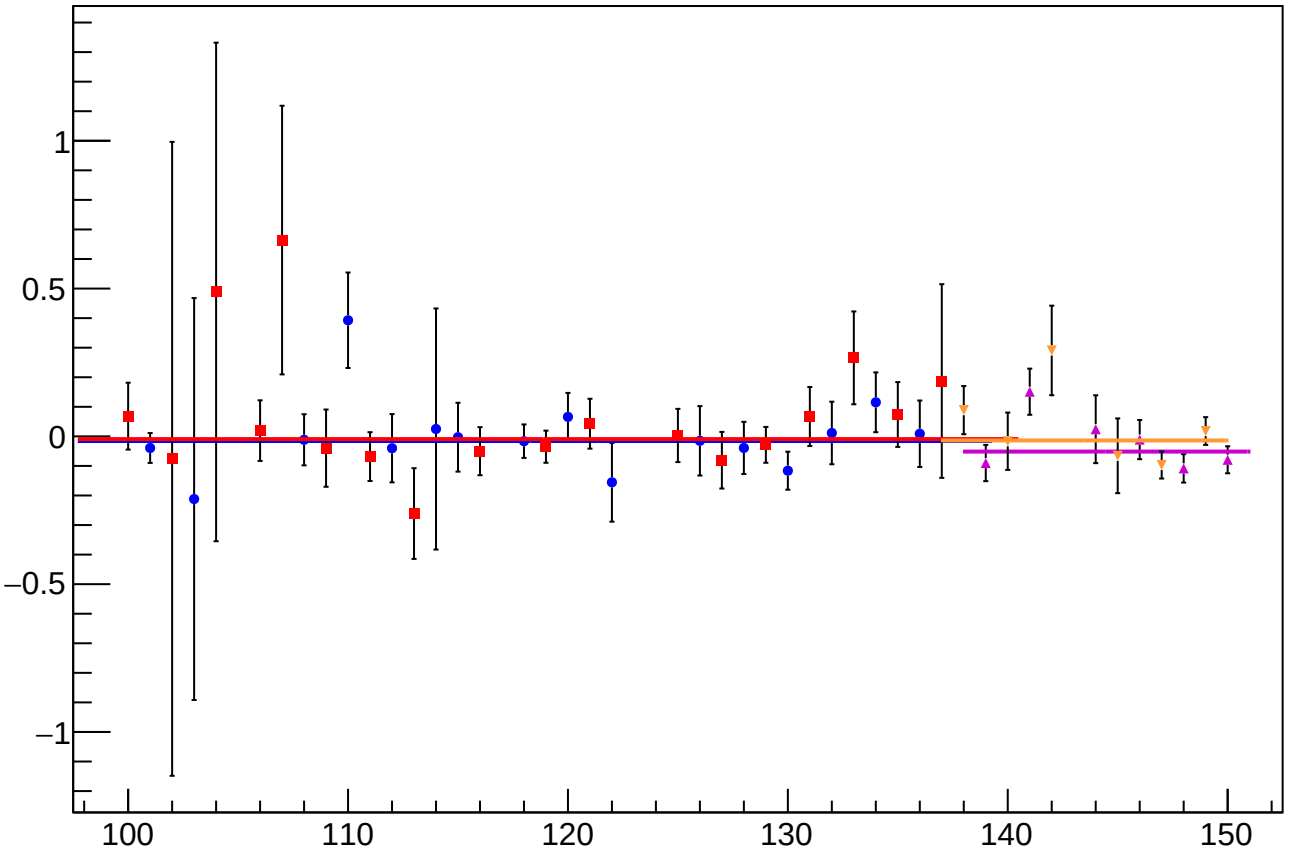
Left: 0.000+/-0.000 $\chi^2$/NDF: 802948.0/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 4028264.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:2342291.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2717591.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5068184.5/45




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: -0.014+/-0.028 $\chi^2$/NDF:9.5/5

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.051+/-0.025 $\chi^2$/NDF:9.7/5

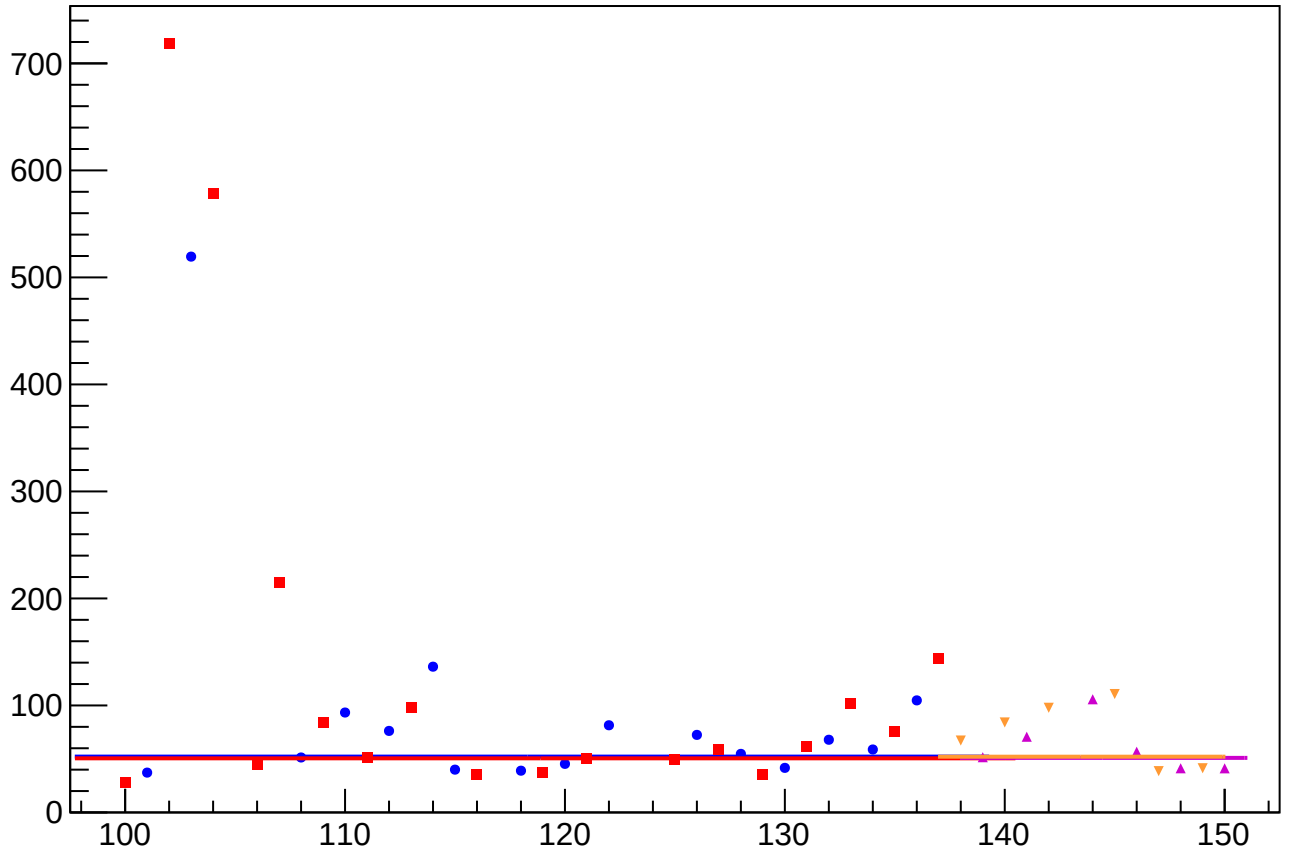
Left: -0.035+/-0.018 $\chi^2$/NDF: 20.3/11

Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.032+/-0.017 $\chi^2$/NDF:24.0/21

Out: -0.011+/-0.018 $\chi^2$/NDF:22.0/23

All: -0.022+/-0.012 $\chi^2$/NDF: 46.8/45




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 52.112+/-0.020 $\chi^2$/NDF:1176771.7/5

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 50.998+/-0.017 $\chi^2$/NDF:771880.3/5

Left: 51.488+/-0.013 $\chi^2$/NDF: 1950449.3/11

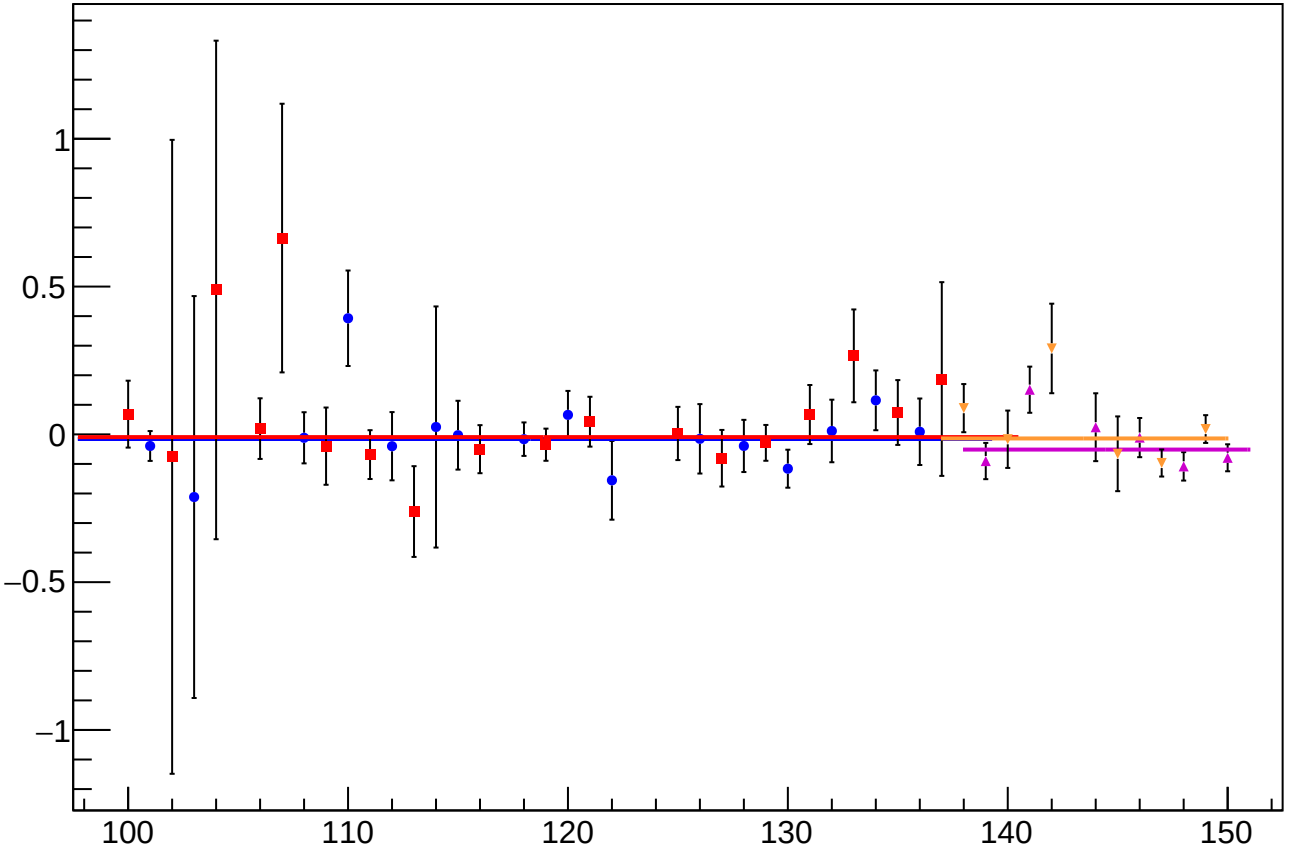
Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 51.645+/-0.012 $\chi^2$/NDF:3041346.7/21

Out: 51.222+/-0.013 $\chi^2$/NDF:4231672.3/23

All: 51.450+/-0.009 $\chi^2$/NDF: 7273612.2/45

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: -0.014+/-0.028 $\chi^2$/NDF:9.5/5

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.051+/-0.025 $\chi^2$/NDF:9.7/5

Left: -0.035+/-0.018 $\chi^2$/NDF: 20.3/11

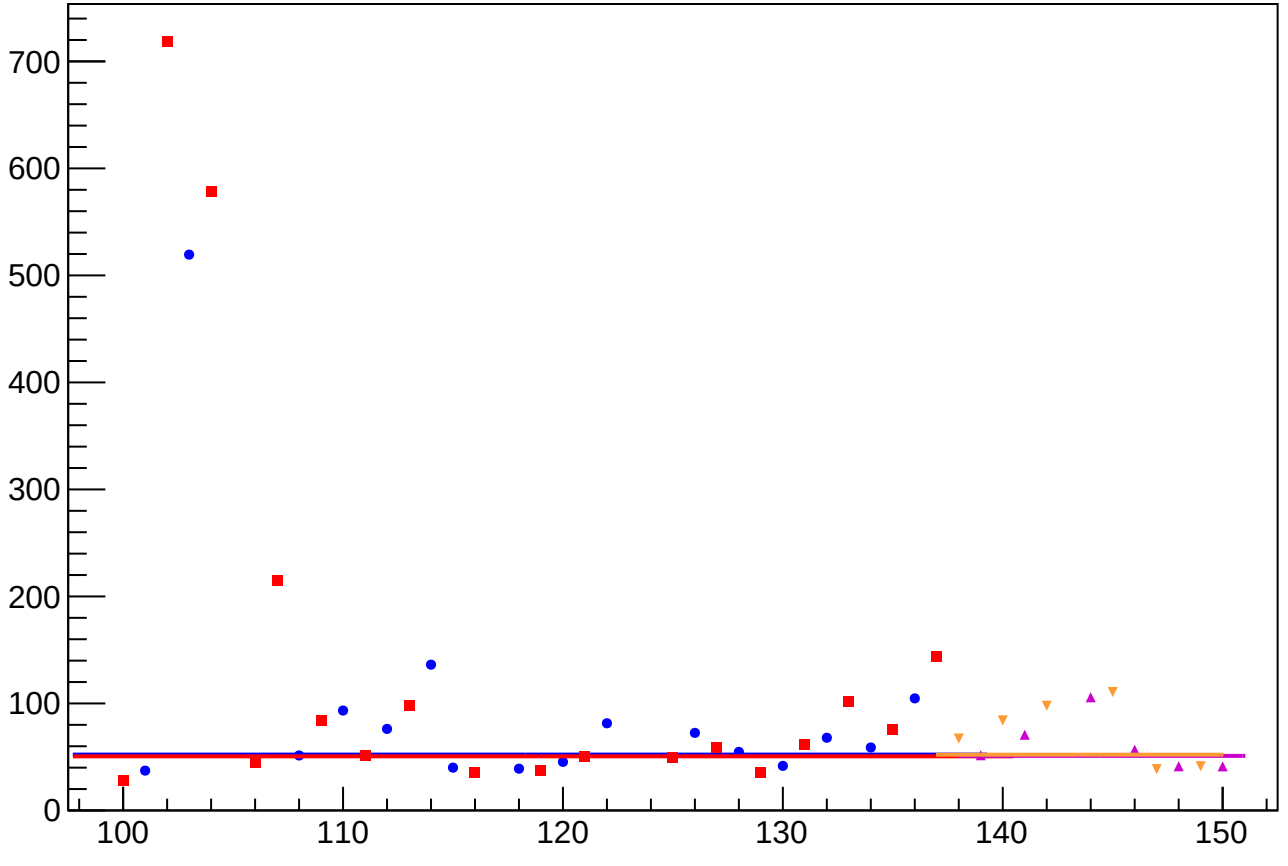
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.032+/-0.017 $\chi^2$/NDF:24.0/21

Out: -0.011+/-0.018 $\chi^2$/NDF:22.0/23

All: -0.022+/-0.012 $\chi^2$/NDF: 46.8/45

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 52.112+/-0.020 $\chi^2$/NDF:1176771.7/5

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 50.998+/-0.017 $\chi^2$/NDF:771880.3/5

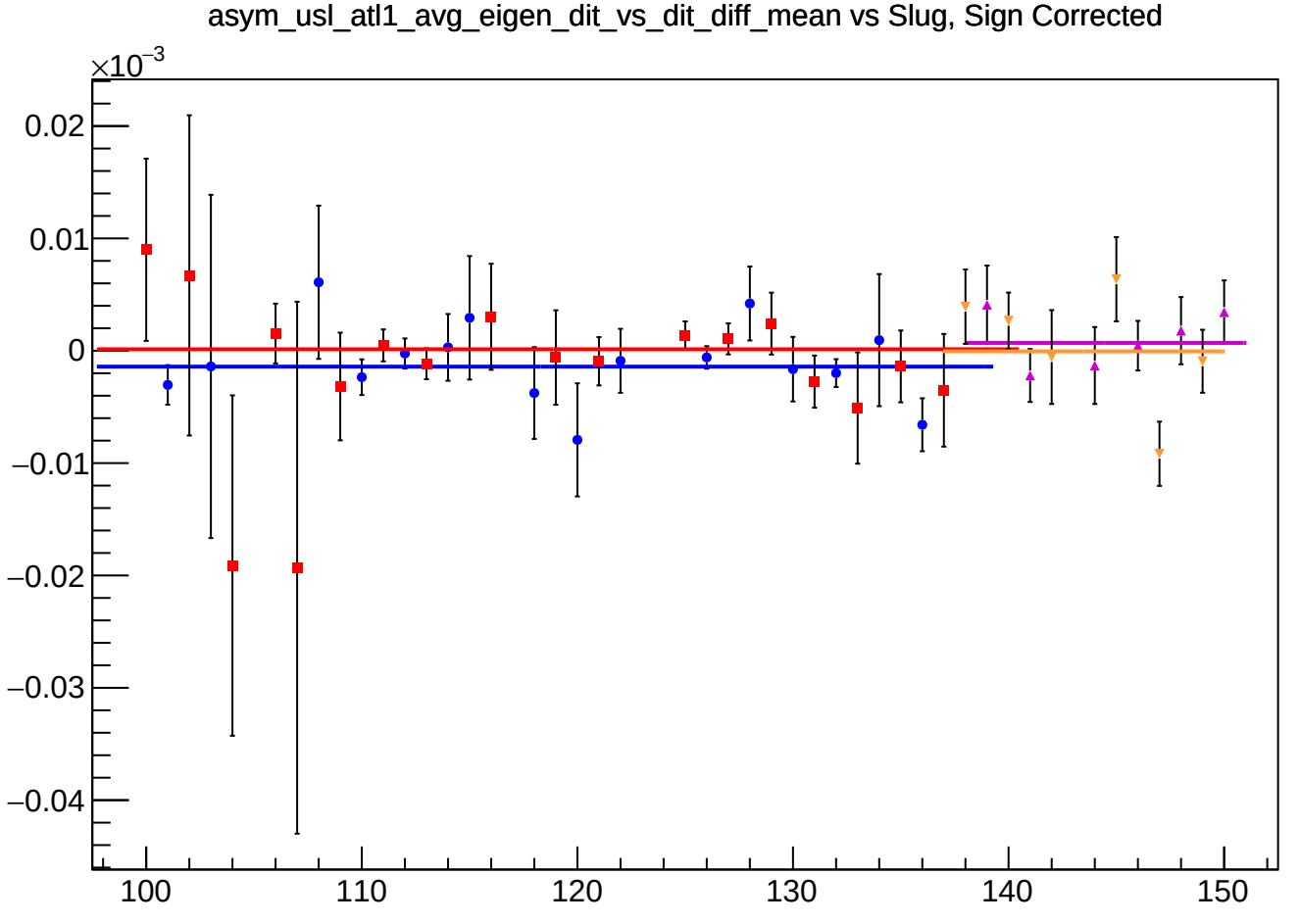
Left: 51.488+/-0.013 $\chi^2$/NDF: 1950449.3/11

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 51.645+/-0.012 $\chi^2$/NDF:3041346.7/21

Out: 51.222+/-0.013 $\chi^2$/NDF:4231672.3/23

All: 51.450+/-0.009 $\chi^2$/NDF: 7273612.2/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 19.9/11

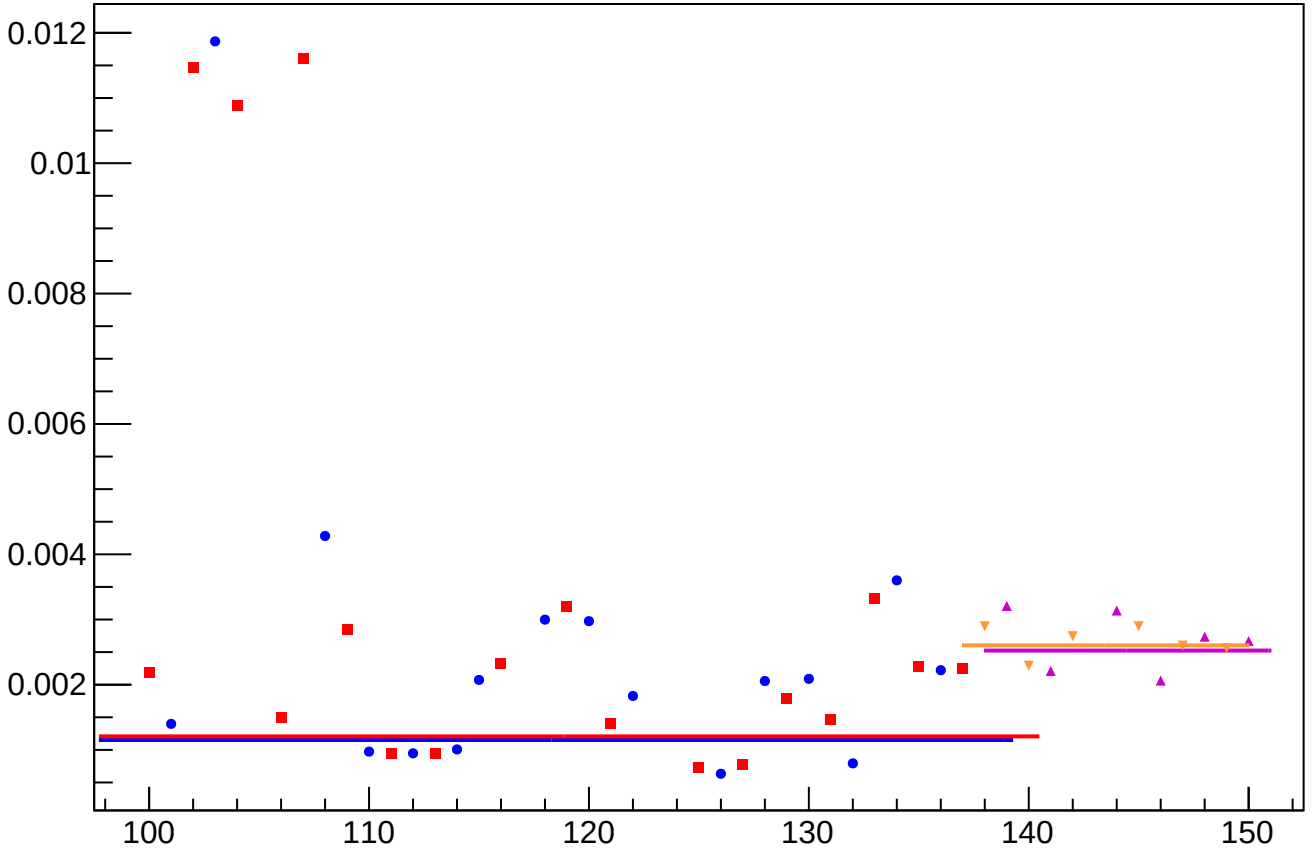
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:21.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.0/45

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4187928.7/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:61660.2/5

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4521920.0/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:279175.7/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 345261.2/11

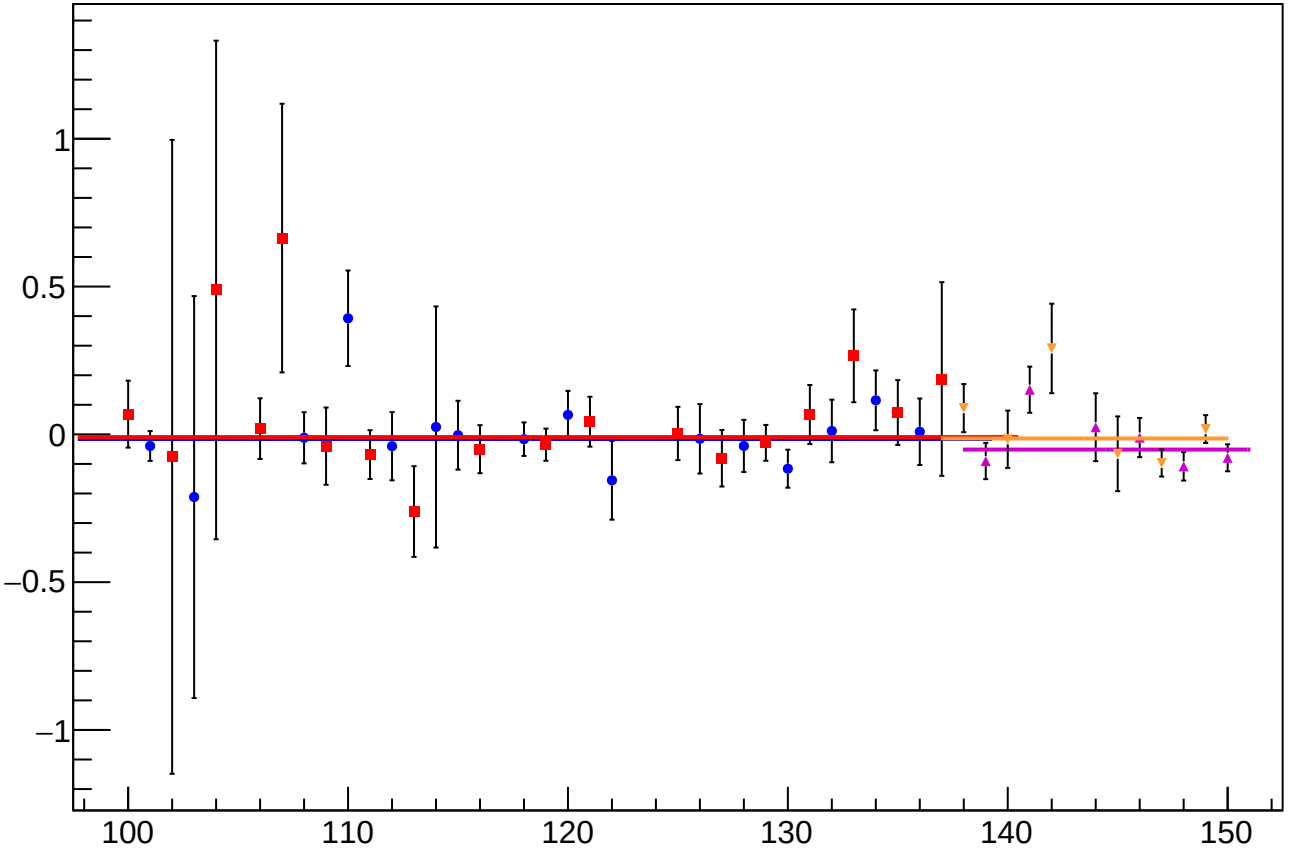
Right: 0.001+/-0.000 $\chi^2$/NDF: 8720631.4/33

In: 0.001+/-0.000 $\chi^2$/NDF:6924366.8/21

Out: 0.001+/-0.000 $\chi^2$/NDF:6635122.7/23

All: 0.001+/-0.000 $\chi^2$/NDF: 13567691.0/45

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: -0.014+/-0.028 $\chi^2$/NDF:9.5/5

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.051+/-0.025 $\chi^2$/NDF:9.7/5

Left: -0.035+/-0.018 $\chi^2$/NDF: 20.3/11

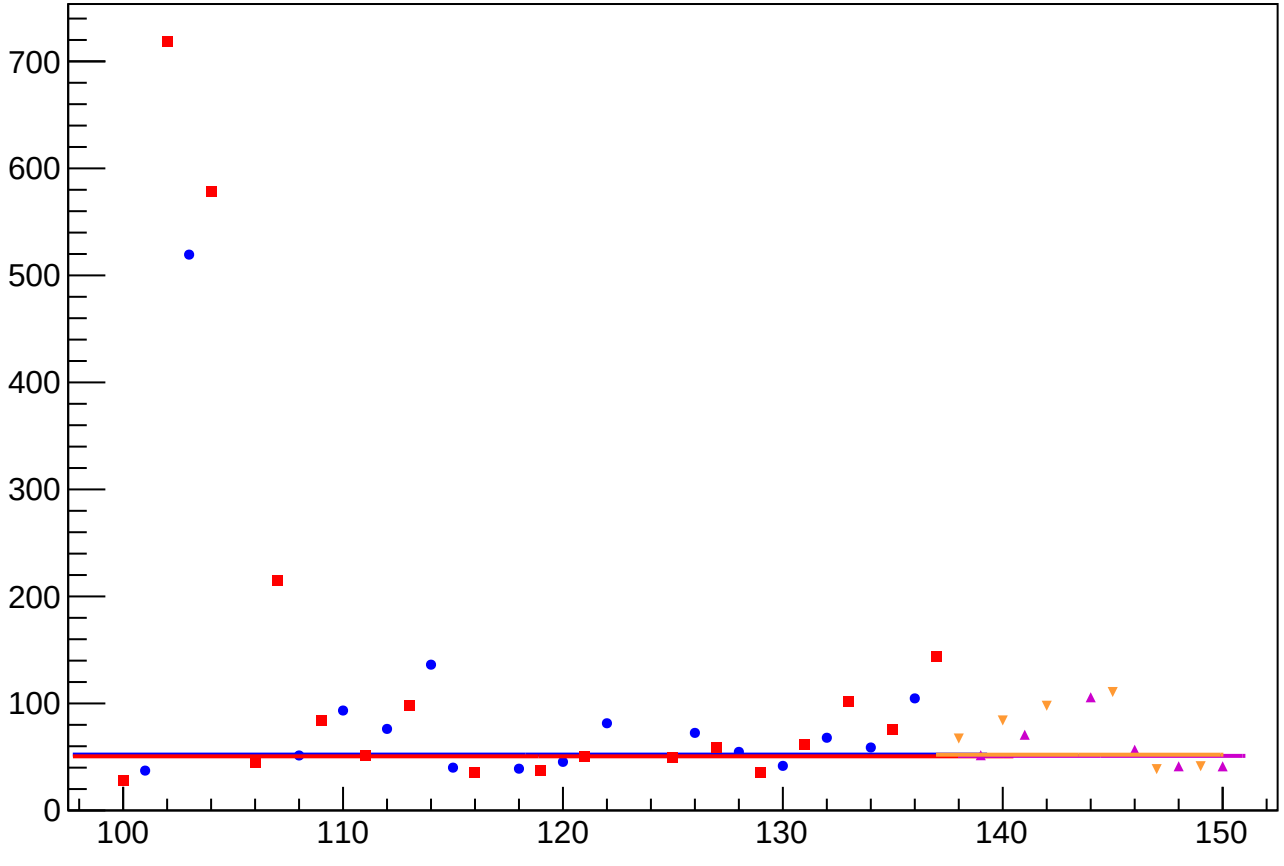
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.032+/-0.017 $\chi^2$/NDF:24.0/21

Out: -0.011+/-0.018 $\chi^2$/NDF:22.0/23

All: -0.022+/-0.012 $\chi^2$/NDF: 46.8/45

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266922.0/15

Left Out: 52.113+/-0.020 $\chi^2$/NDF:1176732.3/5

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 50.999+/-0.017 $\chi^2$/NDF:771864.2/5

Left: 51.489+/-0.013 $\chi^2$/NDF: 1950394.3/11

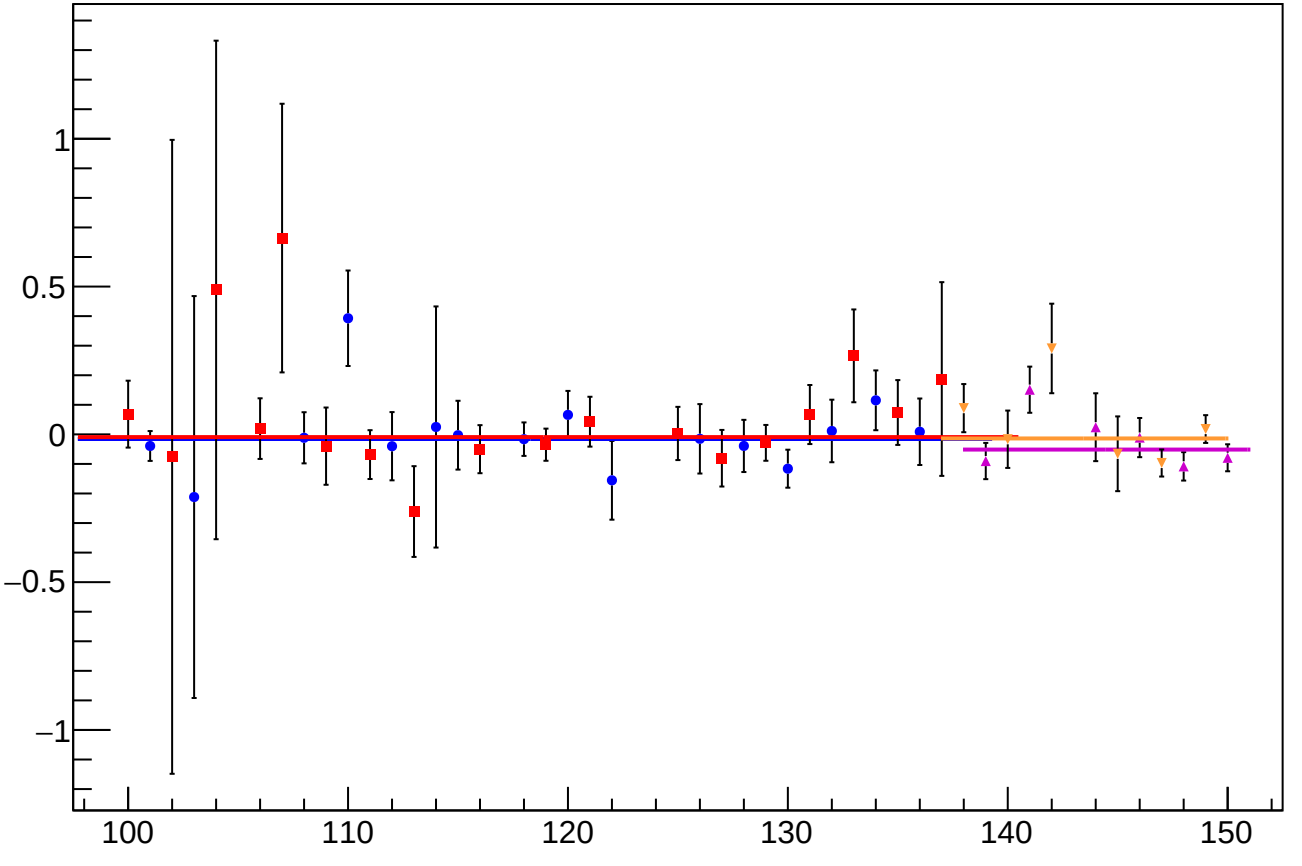
Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 51.645+/-0.012 $\chi^2$/NDF:3041322.5/21

Out: 51.222+/-0.013 $\chi^2$/NDF:4231620.9/23

All: 51.450+/-0.009 $\chi^2$/NDF: 7273536.8/45

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: -0.014+/-0.028 $\chi^2$/NDF:9.5/5

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.051+/-0.025 $\chi^2$/NDF:9.7/5

Left: -0.035+/-0.018 $\chi^2$/NDF: 20.3/11

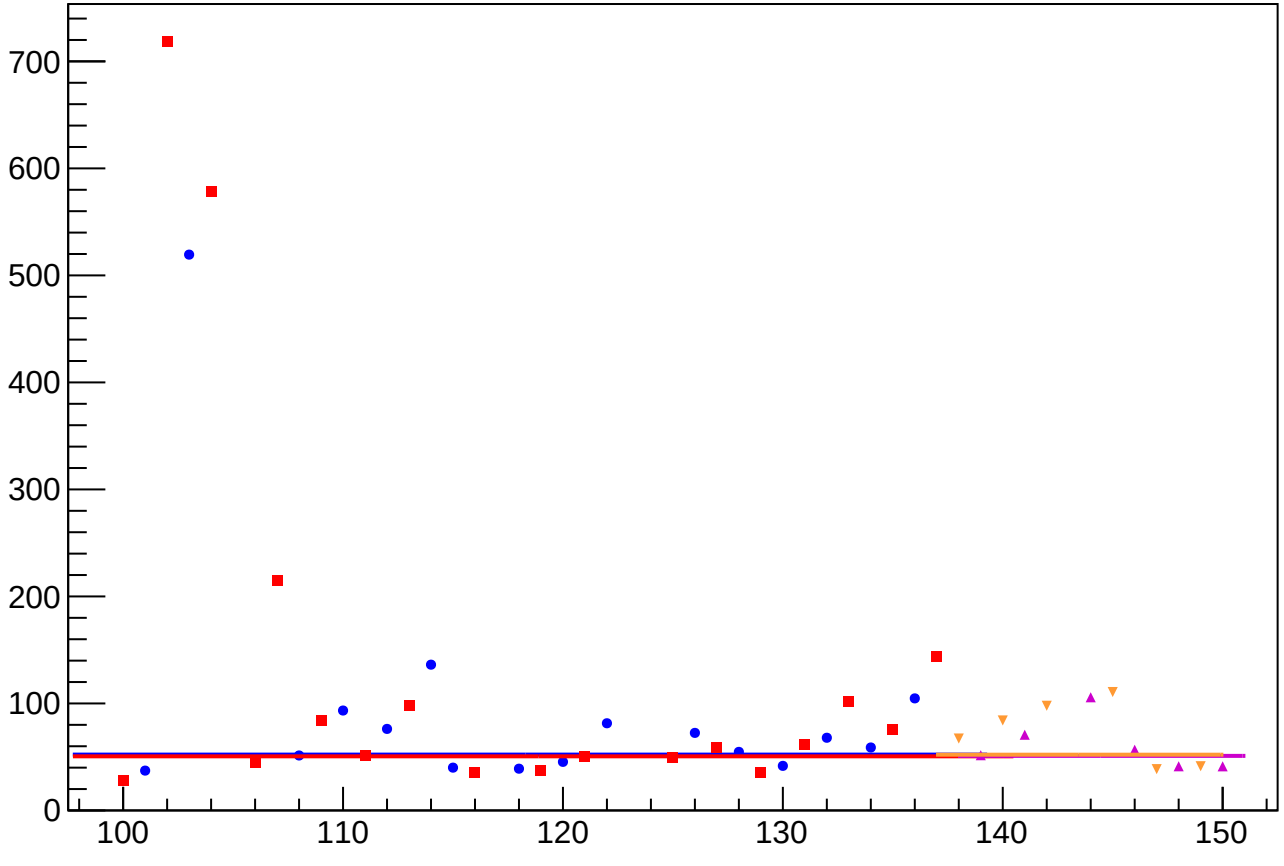
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.032+/-0.017 $\chi^2$/NDF:24.0/21

Out: -0.011+/-0.018 $\chi^2$/NDF:22.0/23

All: -0.022+/-0.012 $\chi^2$/NDF: 46.8/45

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266922.0/15

Left Out: 52.113+/-0.020 $\chi^2$/NDF:1176732.3/5

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 50.999+/-0.017 $\chi^2$/NDF:771864.2/5

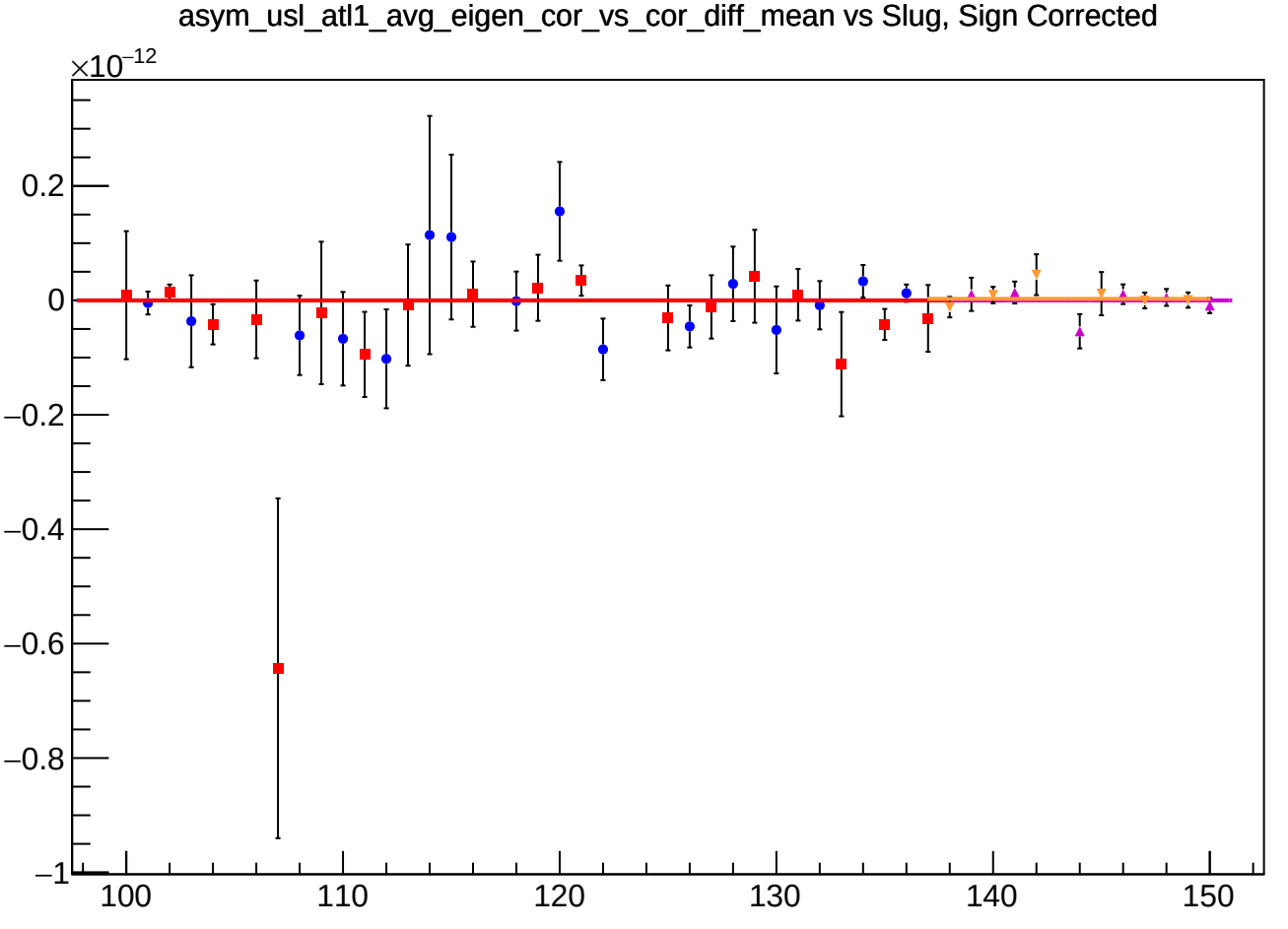
Left: 51.489+/-0.013 $\chi^2$/NDF: 1950394.3/11

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 51.645+/-0.012 $\chi^2$/NDF:3041322.5/21

Out: 51.222+/-0.013 $\chi^2$/NDF:4231620.9/23

All: 51.450+/-0.009 $\chi^2$/NDF: 7273536.8/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.4/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.9/5

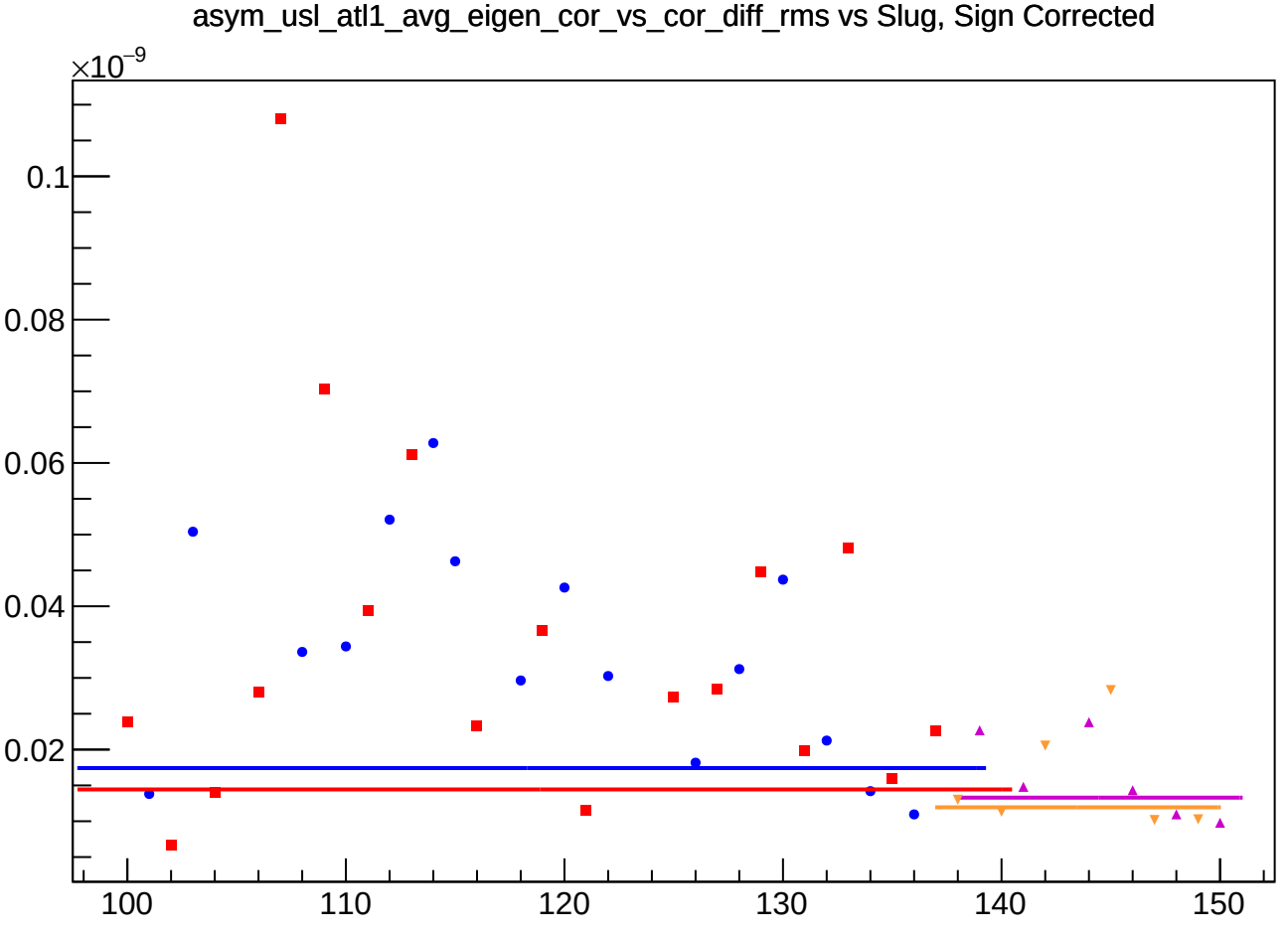
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.3/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:18.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:18.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 37.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2224531.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:567047.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3261103.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:664362.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1266856.1/11

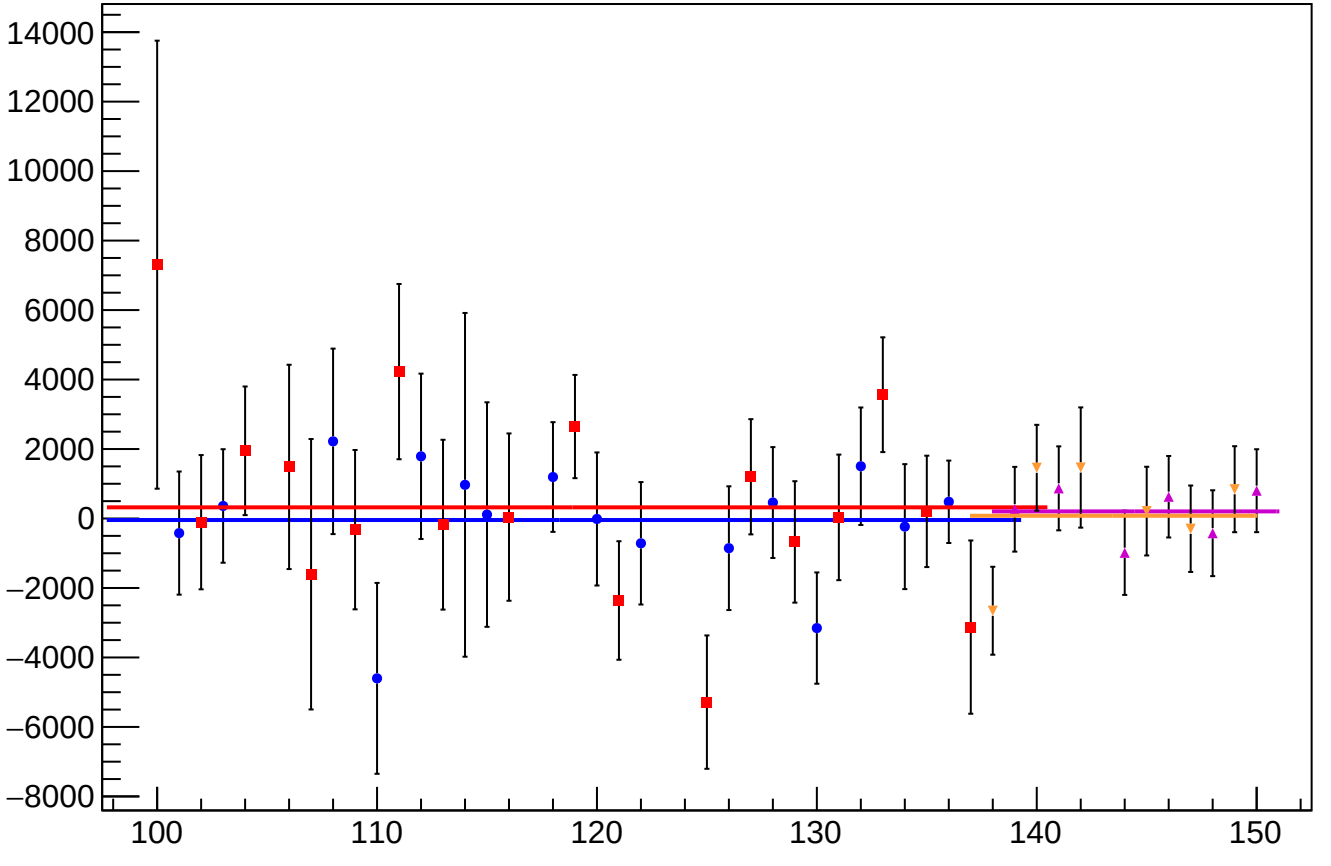
Right: 0.000+/-0.000 $\chi^2$/NDF: 5591516.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:3129528.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3924398.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7173973.1/45

# reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: -43.681+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: 79.454+/-532.636 $\chi^2$/NDF:7.0/5

Right Out: 321.266+/-474.939 $\chi^2$/NDF: 24.8/17

Left In: 204.483+/-492.658 $\chi^2$/NDF:1.9/5

Left: 146.836+/-361.670 $\chi^2$/NDF: 9.0/11

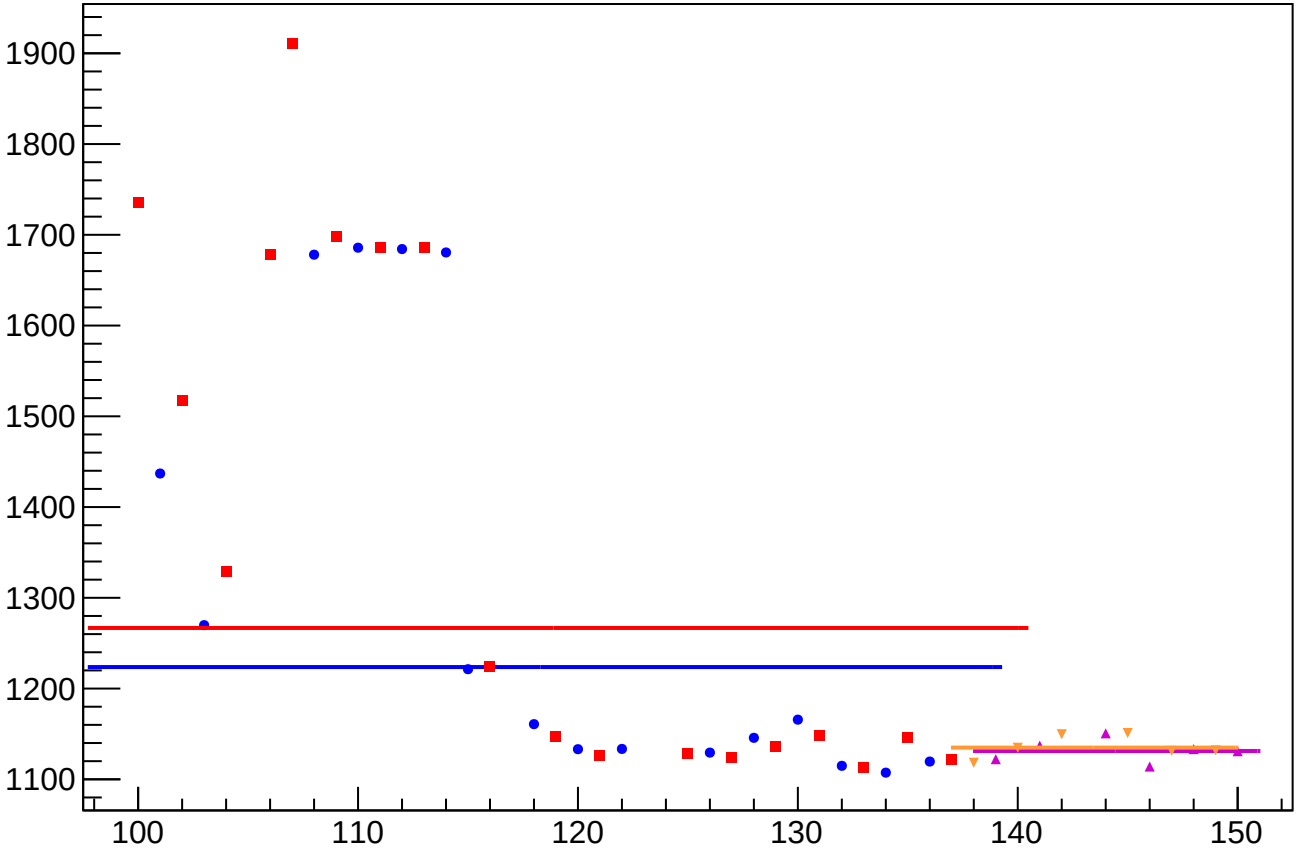
Right: 132.654+/-330.136 $\chi^2$/NDF: 35.2/33

In: 71.695+/-335.918 $\chi^2$/NDF:12.1/21

Out: 214.162+/-354.483 $\chi^2$/NDF:31.9/23

All: 139.100+/-243.829 $\chi^2$/NDF: 44.2/45

# reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1134.935+/-0.377 $\chi^2$/NDF:837.1/5

Right Out: 1266.780+/-0.336 $\chi^2$/NDF: 432845.4/17

Left In: 1131.209+/-0.348 $\chi^2$/NDF:1105.1/5

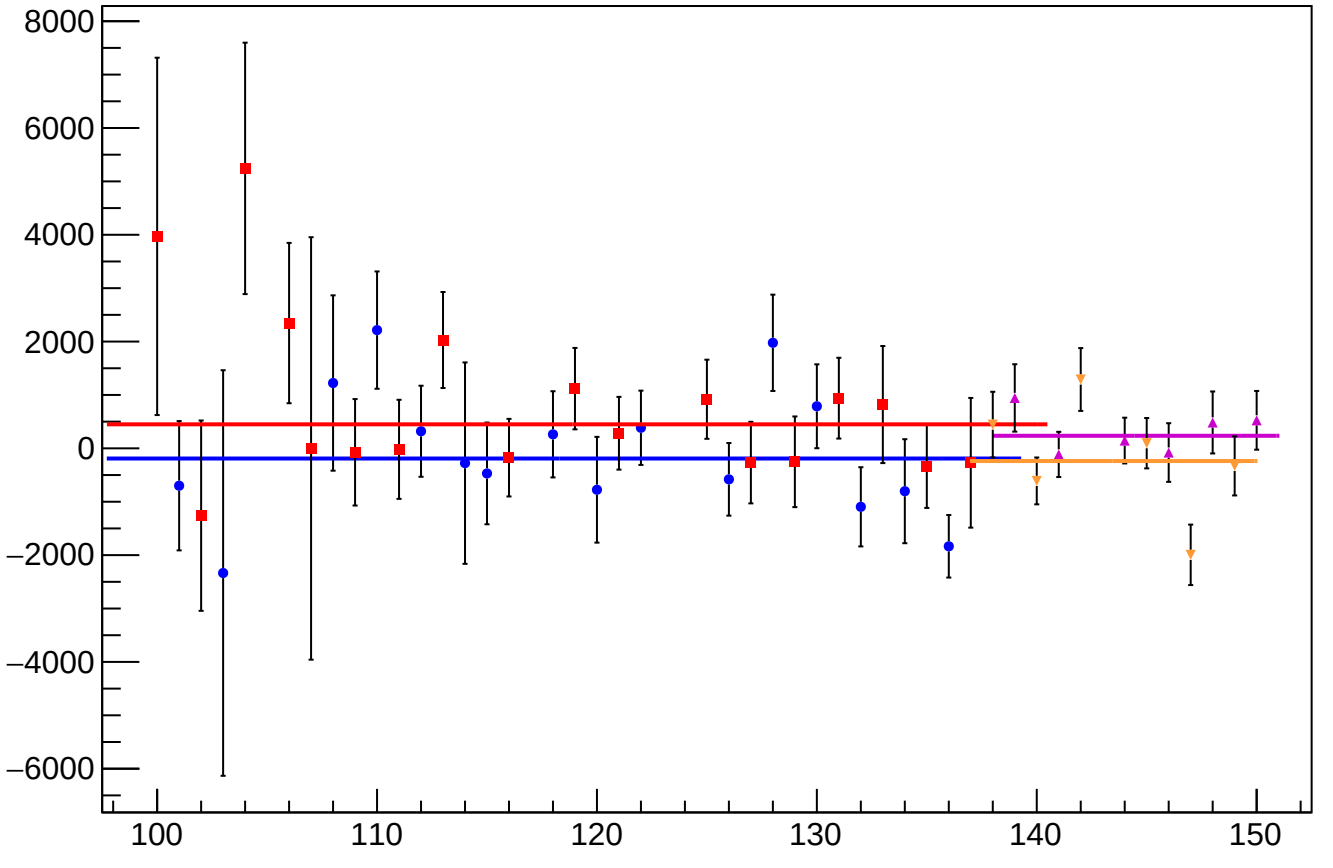
Left: 1132.927+/-0.256 $\chi^2$/NDF: 1994.9/11

Right: 1244.518+/-0.233 $\chi^2$/NDF: 736313.8/33

In: 1180.702+/-0.238 $\chi^2$/NDF:333794.1/21

Out: 1208.383+/-0.251 $\chi^2$/NDF:501948.9/23

All: 1193.799+/-0.172 $\chi^2$/NDF: 842168.2/45




Right In: -190.634+/-222.869 $\chi^2$/NDF: 25.2/15

Left Out: -237.603+/-215.121 $\chi^2$/NDF:18.8/5

Right Out: 449.847+/-223.203 $\chi^2$/NDF: 16.8/17

Left In: 235.371+/-207.930 $\chi^2$/NDF:2.8/5

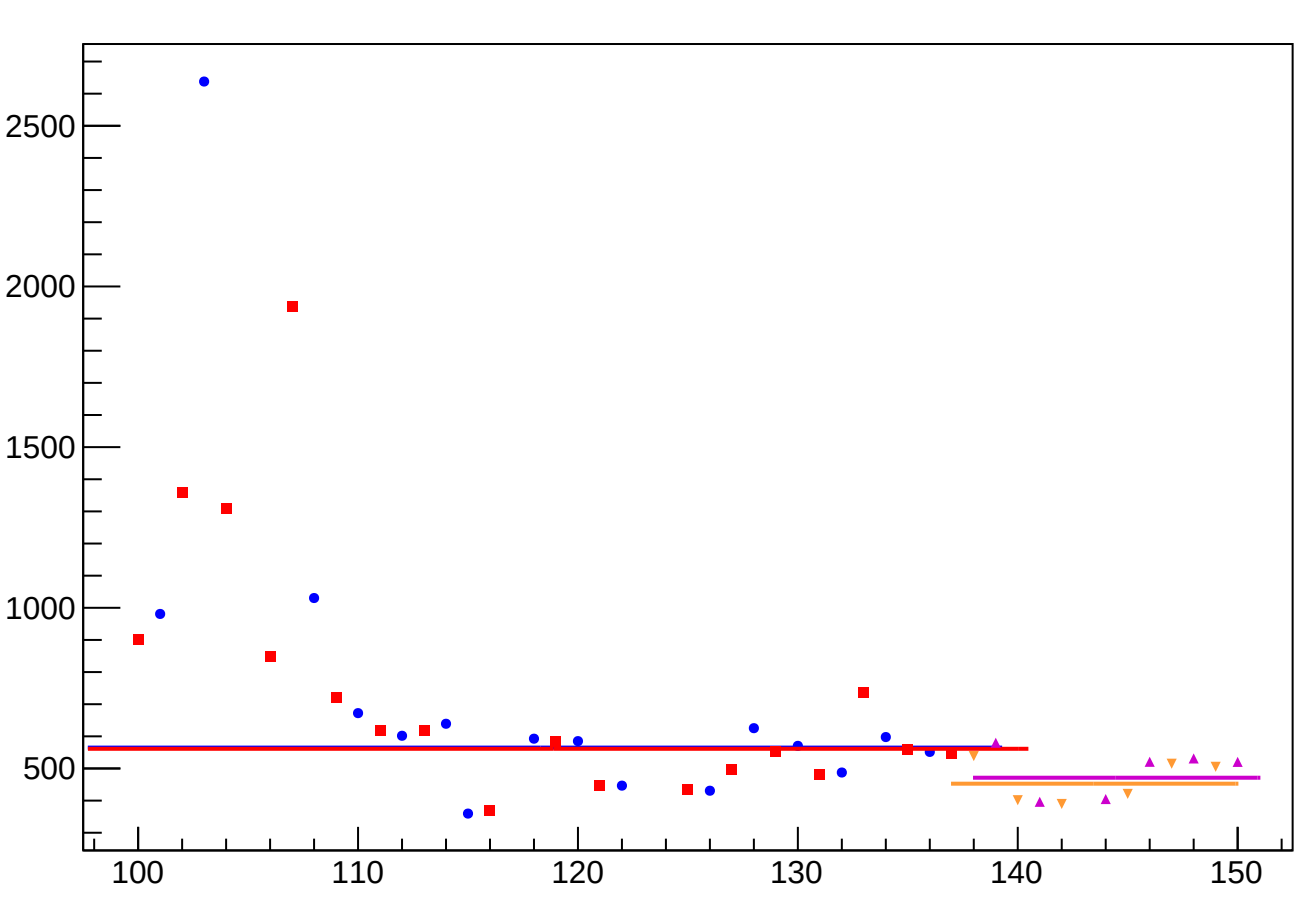
Left: 6.921+/-149.506 $\chi^2$/NDF: 24.1/11

Right: 129.127+/-157.710 $\chi^2$/NDF: 46.2/33

In: 37.123+/-152.036 $\chi^2$/NDF:30.0/21

Out: 93.451+/-154.892 $\chi^2$/NDF:40.6/23

All: 64.763+/-108.501 $\chi^2$/NDF: 70.6/45




Right In: 564.959+/-0.158 $\chi^2$/NDF: 1284478.9/15

Left Out: 452.656+/-0.152 $\chi^2$/NDF:140674.6/5

Right Out: 561.243+/-0.158 $\chi^2$/NDF: 1352239.3/17

Left In: 471.216+/-0.147 $\chi^2$/NDF:223828.1/5

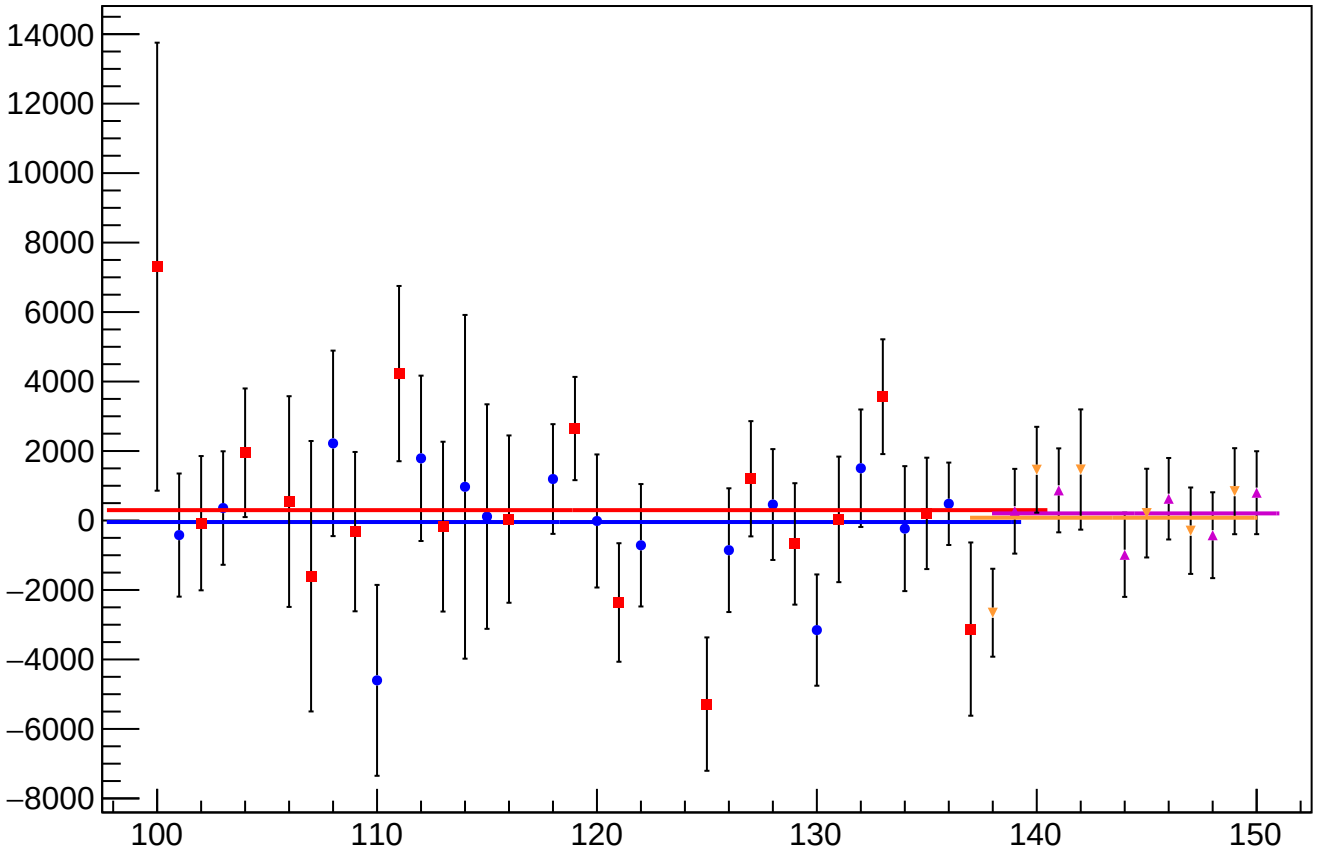
Left: 462.251+/-0.106 $\chi^2$/NDF: 372200.0/11

Right: 563.104+/-0.112 $\chi^2$/NDF: 2636995.6/33

In: 514.841+/-0.108 $\chi^2$/NDF:1697479.8/21

Out: 504.948+/-0.110 $\chi^2$/NDF:1738318.9/23

All: 509.986+/-0.077 $\chi^2$/NDF: 3439953.9/45




Right In: -43.923+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: 79.580+/-532.636 $\chi^2$/NDF:7.0/5

Right Out: 298.207+/-475.315 $\chi^2$/NDF: 24.6/17

Left In: 204.409+/-492.658 $\chi^2$/NDF:1.9/5

Left: 146.854+/-361.670 $\chi^2$/NDF: 9.0/11

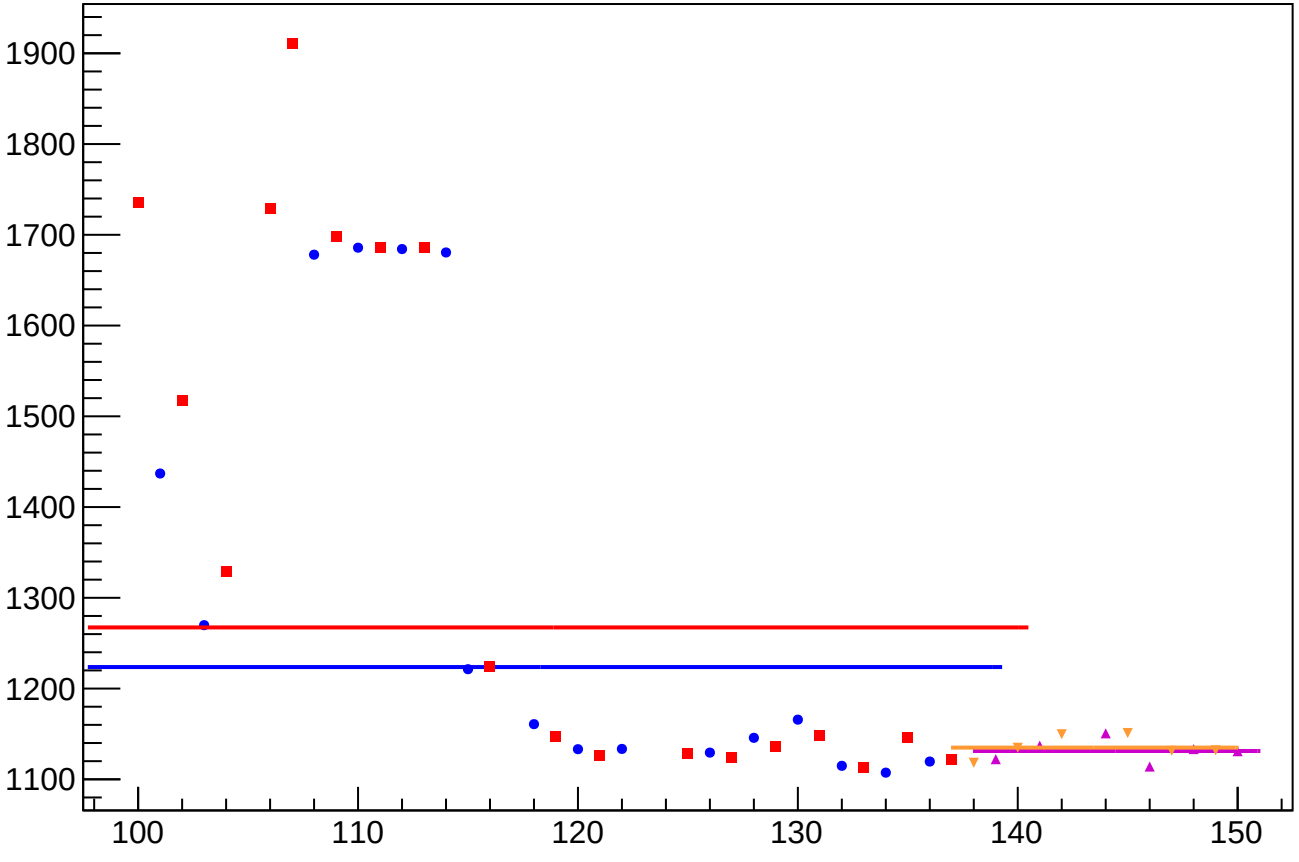
Right: 121.252+/-330.262 $\chi^2$/NDF: 35.0/33

In: 71.531+/-335.918 $\chi^2$/NDF:12.1/21

Out: 201.287+/-354.639 $\chi^2$/NDF:31.8/23

All: 132.894+/-243.880 $\chi^2$/NDF: 44.0/45

# cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1134.935+/-0.377 $\chi^2$/NDF:837.1/5

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1131.209+/-0.348 $\chi^2$/NDF:1105.1/5

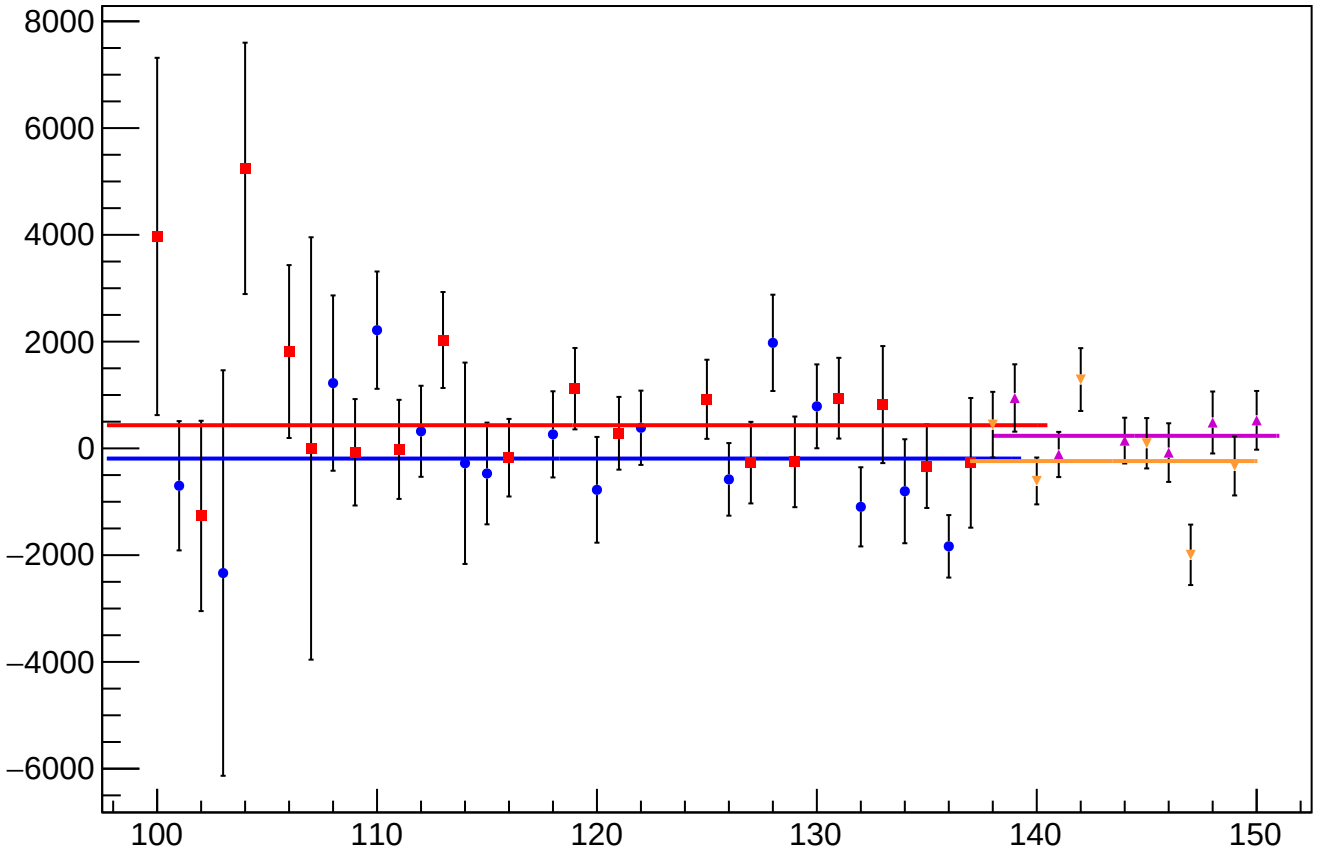
Left: 1132.927+/-0.256 $\chi^2$/NDF: 1994.9/11

Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1180.702+/-0.238 $\chi^2$/NDF:333794.2/21

Out: 1208.656+/-0.251 $\chi^2$/NDF:509643.2/23

All: 1193.922+/-0.172 $\chi^2$/NDF: 849987.1/45




Right In: -190.645+/-222.867 $\chi^2$/NDF: 25.3/15

Left Out: -237.568+/-215.120 $\chi^2$/NDF:18.8/5

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 235.389+/-207.931 $\chi^2$/NDF:2.8/5

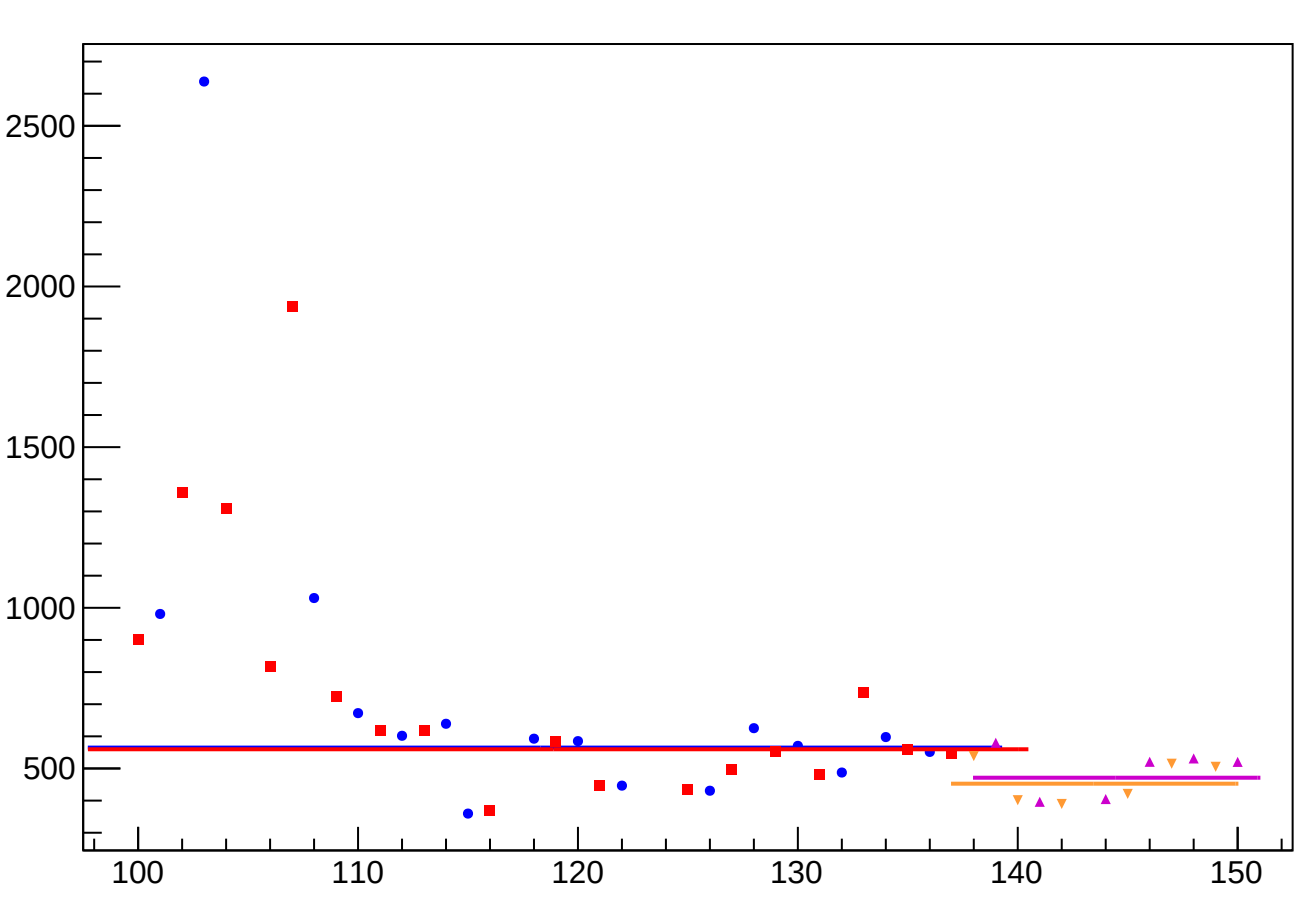
Left: 6.945+/-149.506 $\chi^2$/NDF: 24.1/11

Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: 37.126+/-152.036 $\chi^2$/NDF:30.0/21

Out: 85.260+/-155.006 $\chi^2$/NDF:39.5/23

All: 60.727+/-108.541 $\chi^2$/NDF: 69.5/45




Right In: 564.954+/-0.158 $\chi^2$/NDF: 1284455.7/15

Left Out: 452.654+/-0.152 $\chi^2$/NDF:140646.0/5

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 471.219+/-0.147 $\chi^2$/NDF:223826.9/5

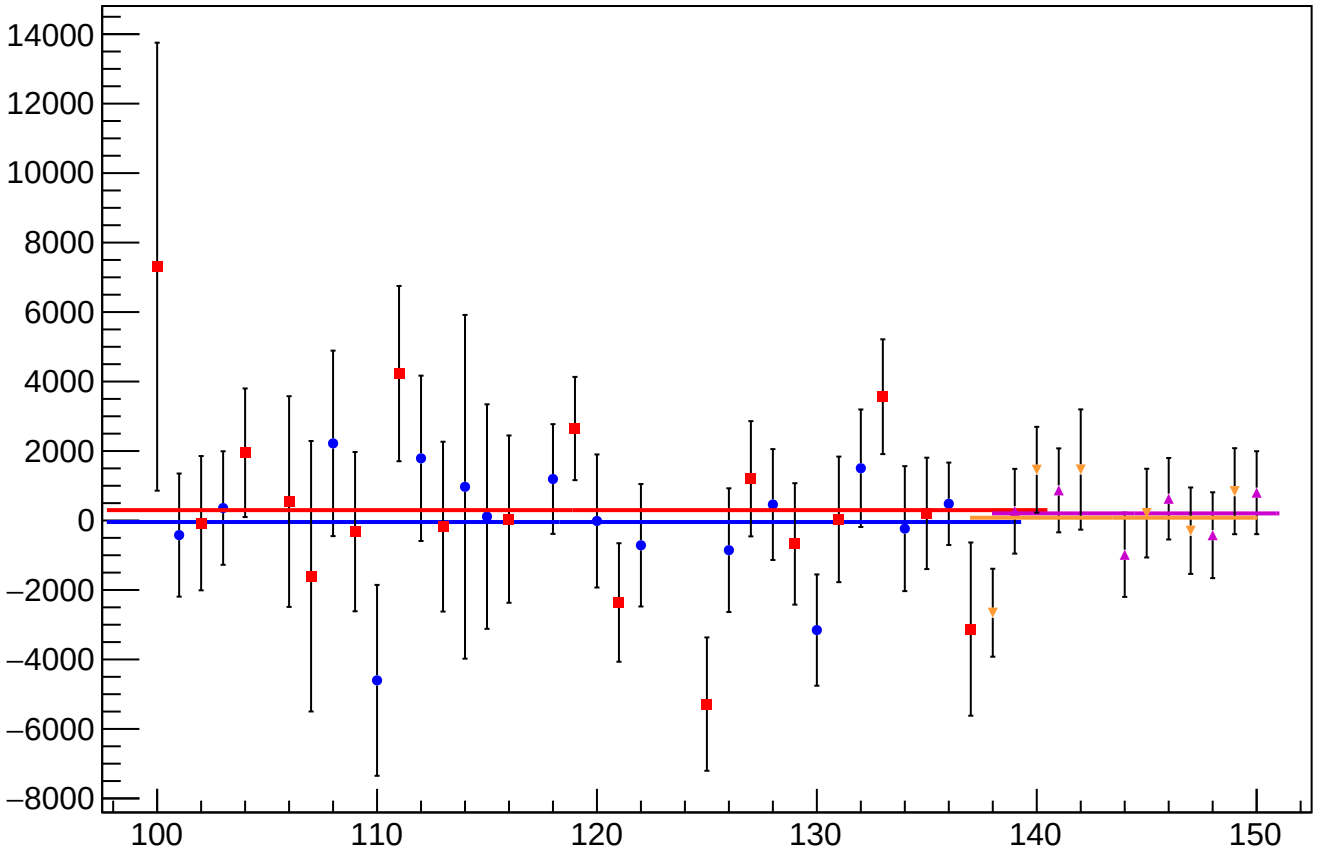
Left: 462.252+/-0.106 $\chi^2$/NDF: 372173.4/11

Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

In: 514.840+/-0.108 $\chi^2$/NDF:1697429.8/21

Out: 504.149+/-0.110 $\chi^2$/NDF:1708366.0/23

All: 509.598+/-0.077 $\chi^2$/NDF: 3410645.1/45




Right In: -43.923+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: 79.580+/-532.636 $\chi^2$/NDF:7.0/5

Right Out: 298.207+/-475.315 $\chi^2$/NDF: 24.6/17

Left In: 204.409+/-492.658 $\chi^2$/NDF:1.9/5

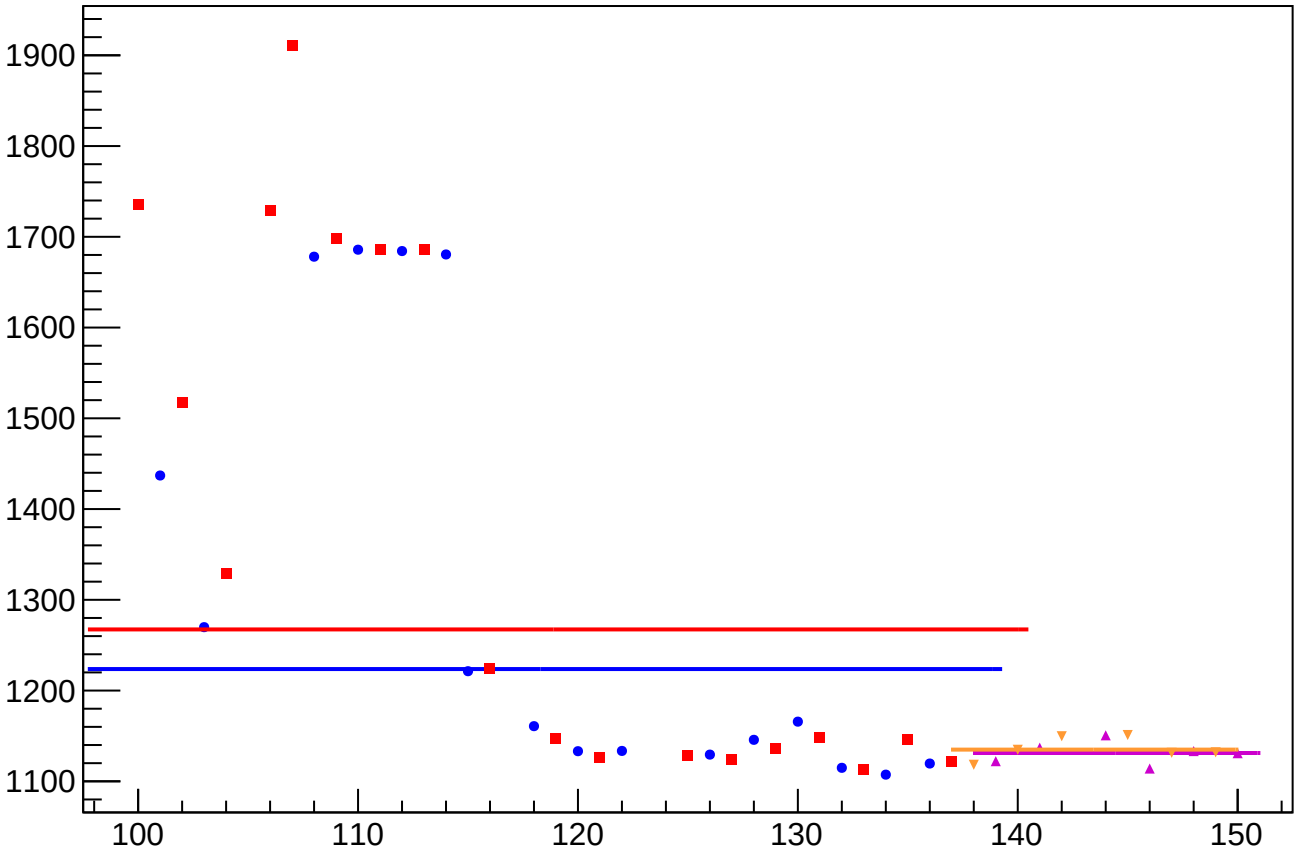
Left: 146.854+/-361.670 $\chi^2$/NDF: 9.0/11

Right: 121.252+/-330.262 $\chi^2$/NDF: 35.0/33

In: 71.531+/-335.918 $\chi^2$/NDF:12.1/21

Out: 201.287+/-354.639 $\chi^2$/NDF:31.8/23

All: 132.894+/-243.880 $\chi^2$/NDF: 44.0/45




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1134.935+/-0.377 $\chi^2$/NDF:837.1/5

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1131.209+/-0.348 $\chi^2$/NDF:1105.1/5

Left: 1132.927+/-0.256 $\chi^2$/NDF: 1994.9/11

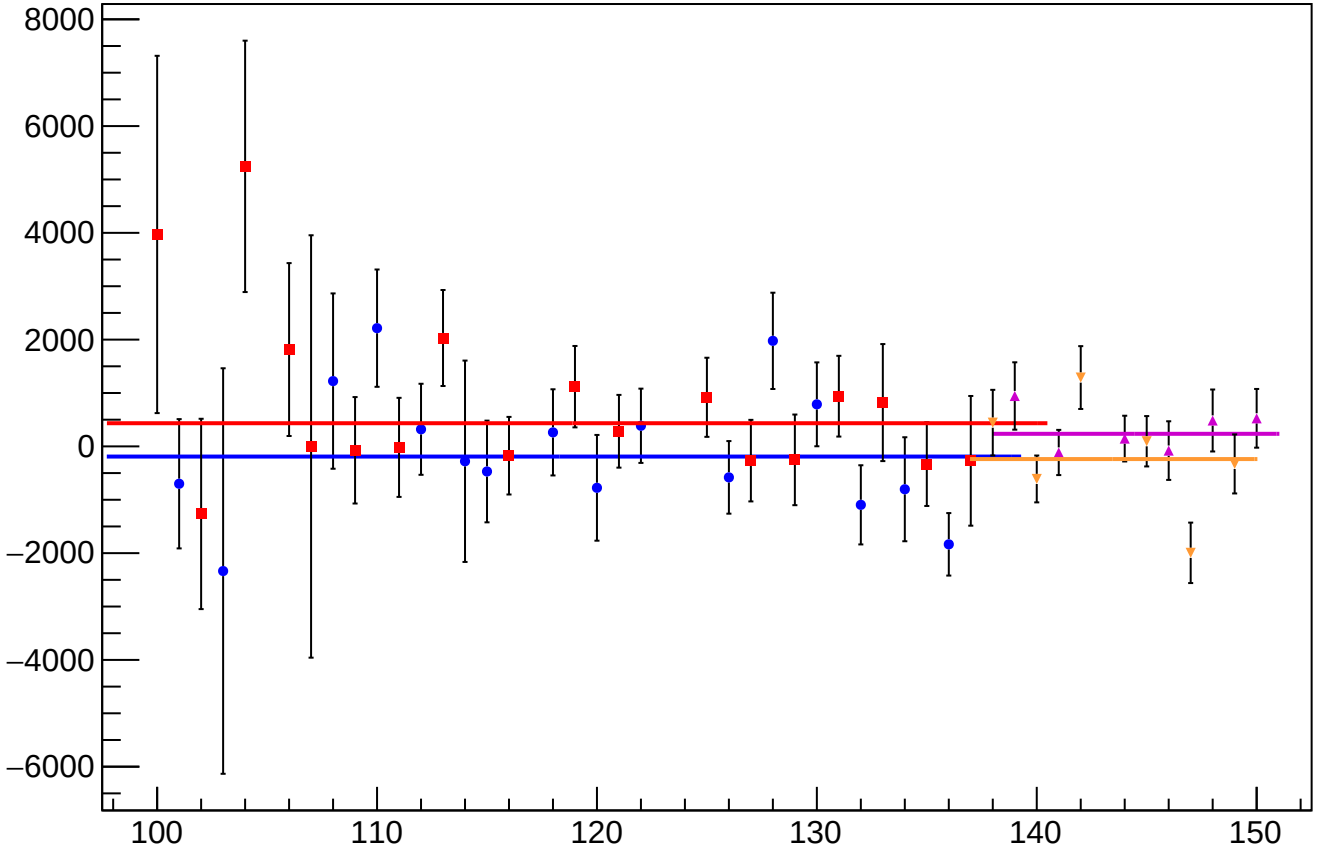
Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1180.702+/-0.238 $\chi^2$/NDF:333794.2/21

Out: 1208.656+/-0.251 $\chi^2$/NDF:509643.2/23

All: 1193.922+/-0.172 $\chi^2$/NDF: 849987.1/45

asym_usl_atl1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -190.645+/-222.867 $\chi^2$/NDF: 25.3/15

Left Out: -237.568+/-215.120 $\chi^2$/NDF:18.8/5

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 235.389+/-207.931 $\chi^2$/NDF:2.8/5

Left: 6.945+/-149.506 $\chi^2$/NDF: 24.1/11

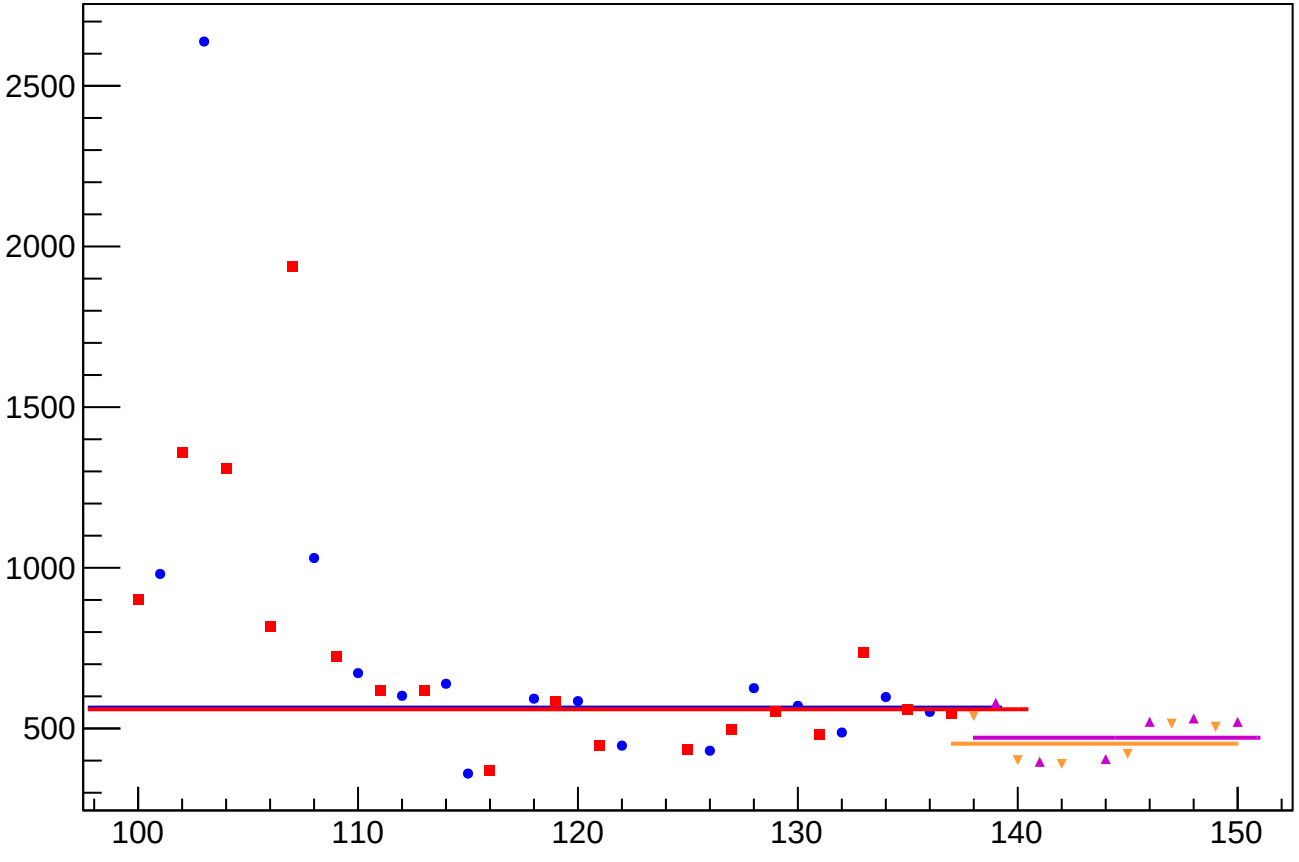
Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: 37.126+/-152.036 $\chi^2$/NDF:30.0/21

Out: 85.260+/-155.006 $\chi^2$/NDF:39.5/23

All: 60.727+/-108.541 $\chi^2$/NDF: 69.5/45

asym_usl_atl1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 564.954+/-0.158 $\chi^2$/NDF: 1284455.7/15

Left Out: 452.654+/-0.152 $\chi^2$/NDF:140646.0/5

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 471.219+/-0.147 $\chi^2$/NDF:223826.9/5

Left: 462.252+/-0.106 $\chi^2$/NDF: 372173.4/11

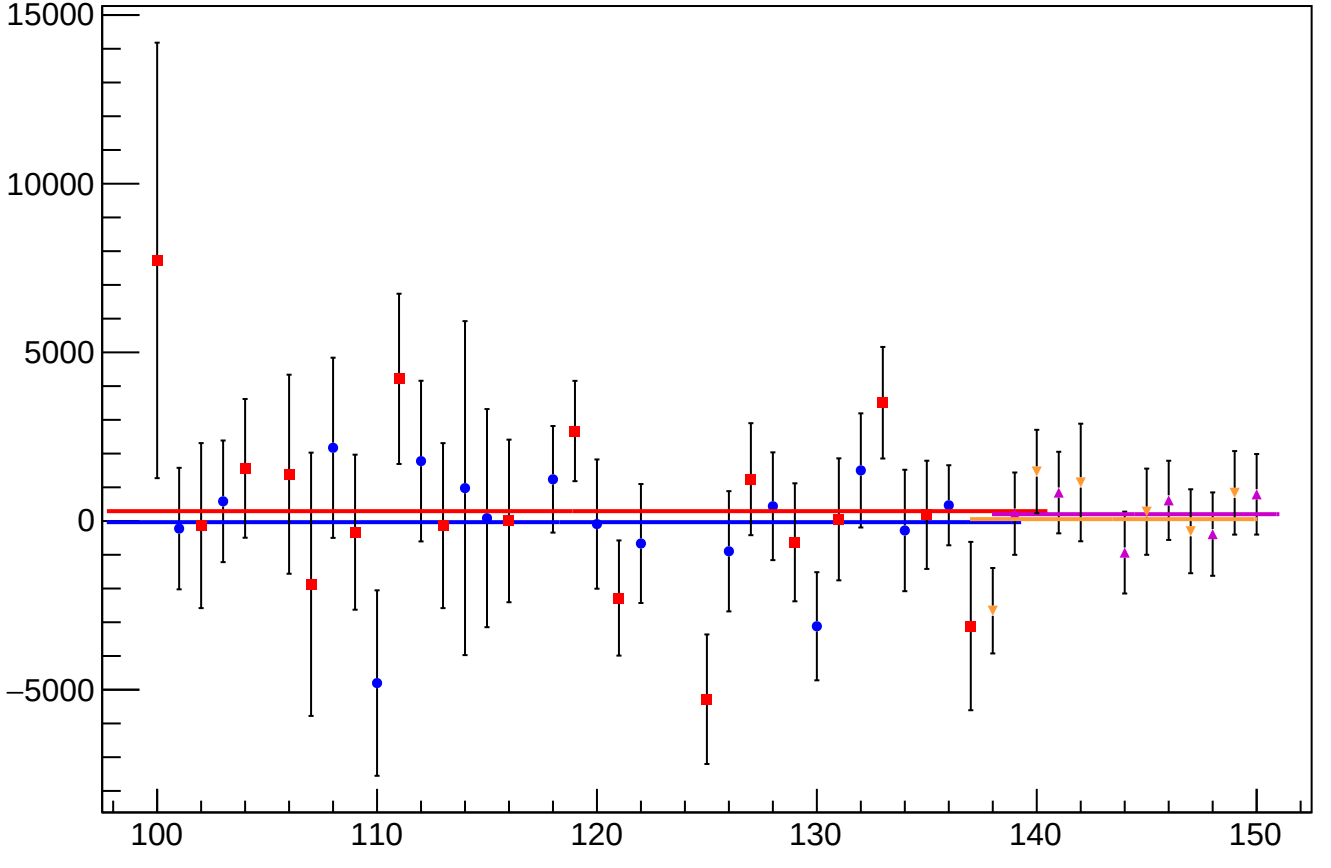
Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

In: 514.840+/-0.108 $\chi^2$/NDF:1697429.8/21

Out: 504.149+/-0.110 $\chi^2$/NDF:1708366.0/23

All: 509.598+/-0.077 $\chi^2$/NDF: 3410645.1/45

# dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: -33.062+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: 56.624+/-533.192 $\chi^2$/NDF:6.8/5

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 203.531+/-492.849 $\chi^2$/NDF:1.8/5

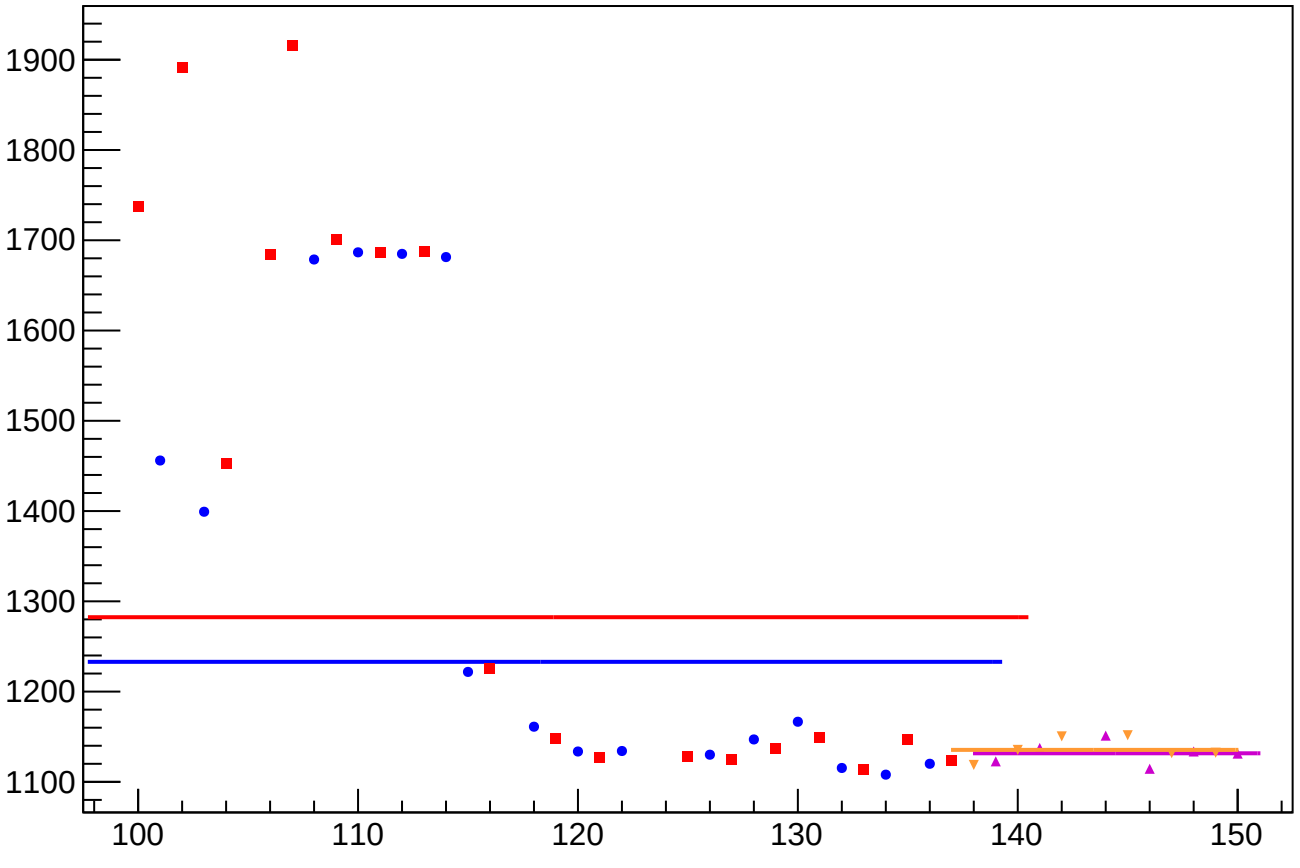
Left: 135.845+/-361.920 $\chi^2$/NDF: 8.6/11

Right: 123.056+/-334.596 $\chi^2$/NDF: 34.7/33

In: 77.908+/-337.533 $\chi^2$/NDF:12.1/21

Out: 186.467+/-358.306 $\chi^2$/NDF:31.1/23

All: 128.950+/-245.688 $\chi^2$/NDF: 43.3/45




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.6/15

Left Out: 1135.425+/-0.377 $\chi^2$/NDF:846.4/5

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.8/17

Left In: 1131.648+/-0.348 $\chi^2$/NDF:1106.8/5

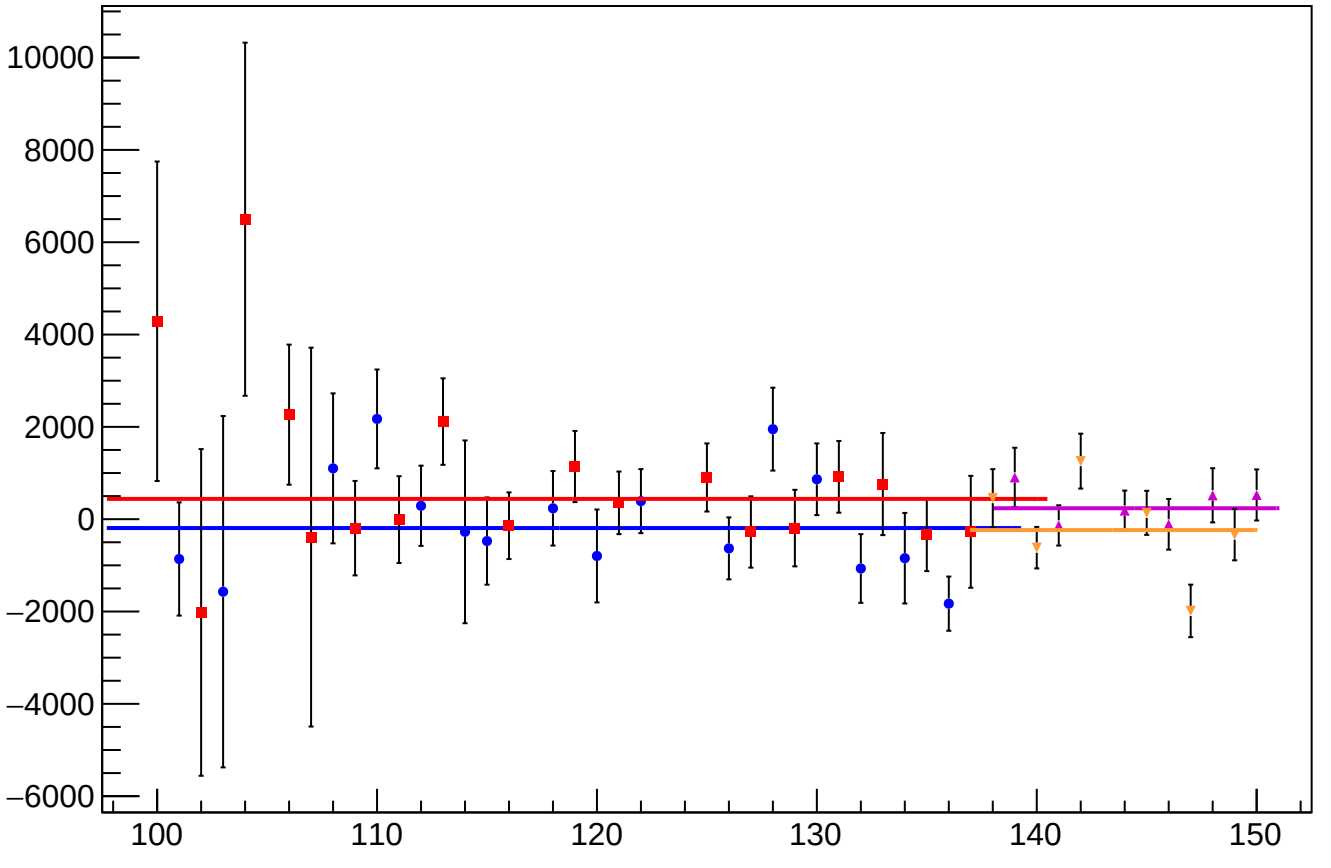
Left: 1133.388+/-0.256 $\chi^2$/NDF: 2007.3/11

Right: 1256.610+/-0.237 $\chi^2$/NDF: 869771.1/33

In: 1185.444+/-0.239 $\chi^2$/NDF:361455.5/21

Out: 1216.032+/-0.253 $\chi^2$/NDF:627599.1/23

All: 1199.825+/-0.174 $\chi^2$/NDF: 996777.1/45




Right In: -191.528+/-222.764 $\chi^2$/NDF: 25.3/15

Left Out: -235.671+/-218.172 $\chi^2$/NDF:18.4/5

Right Out: 439.610+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 237.125+/-210.861 $\chi^2$/NDF:2.7/5

Left: 8.781+/-151.620 $\chi^2$/NDF: 23.5/11

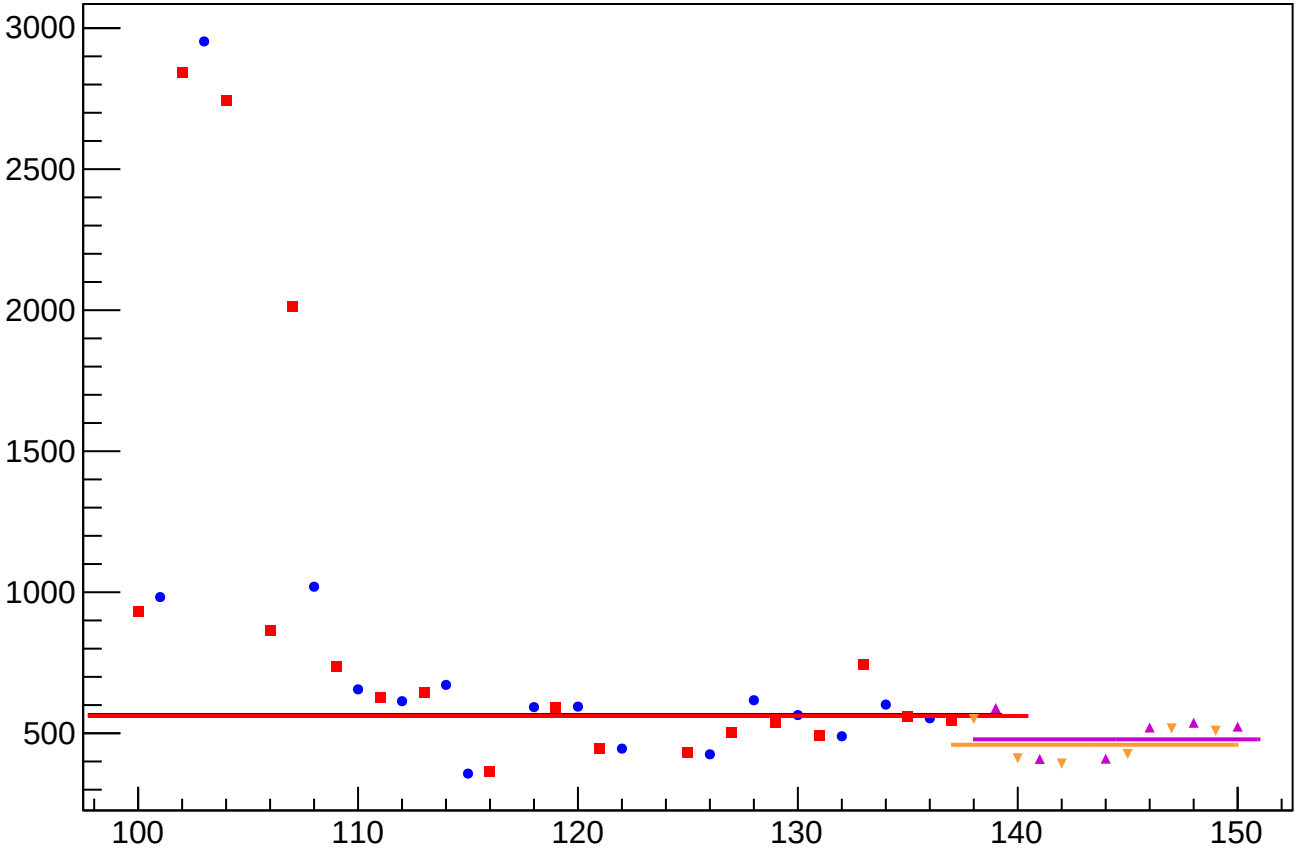
Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: 34.555+/-153.136 $\chi^2$/NDF:30.0/21

Out: 89.178+/-157.166 $\chi^2$/NDF:37.6/23

All: 61.157+/-109.681 $\chi^2$/NDF: 67.6/45

asym_usl_atl1_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 564.871+/-0.158 $\chi^2$/NDF: 1480375.5/15

Left Out: 459.307+/-0.154 $\chi^2$/NDF:135983.9/5

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273371.7/17

Left In: 478.466+/-0.149 $\chi^2$/NDF:206036.0/5

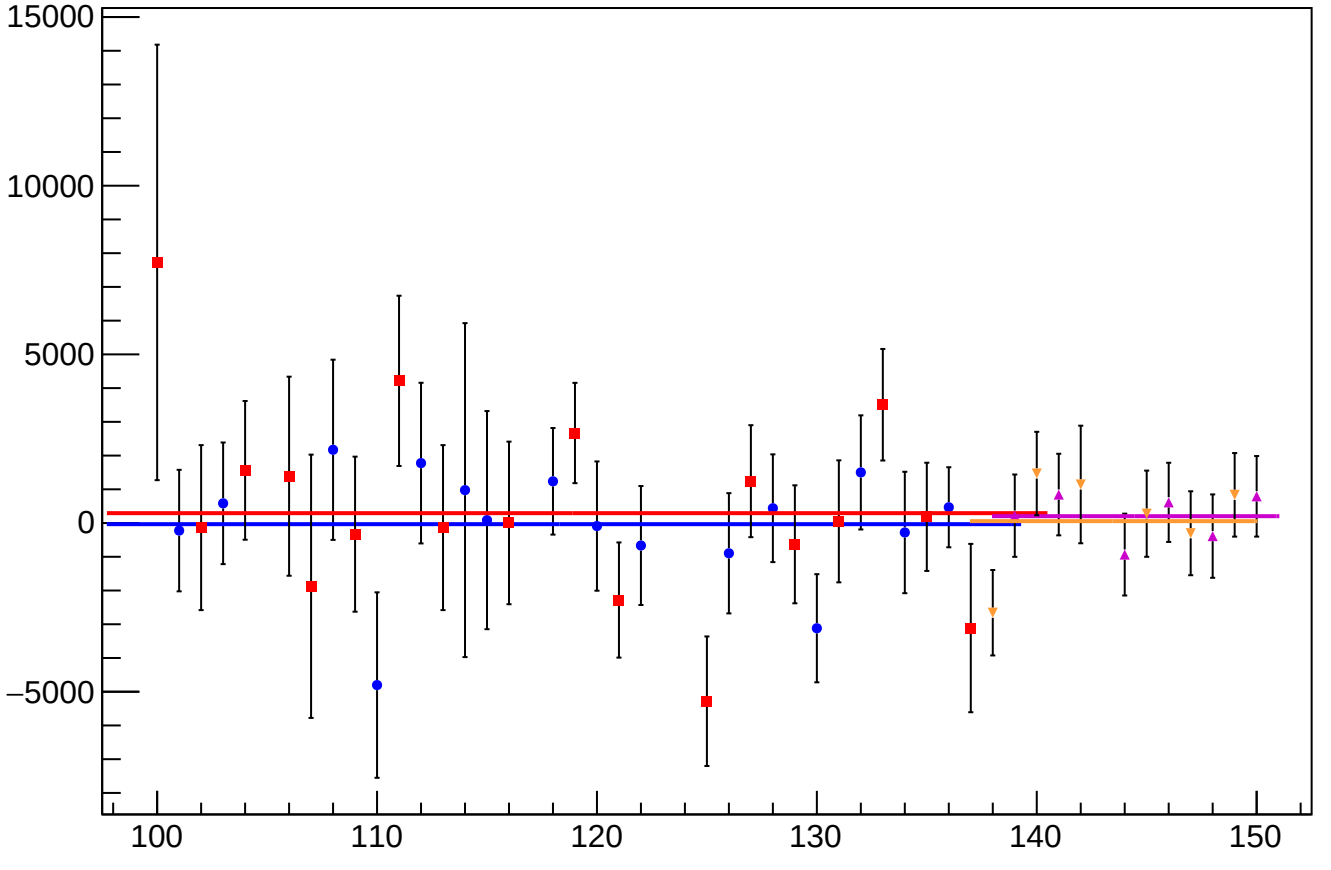
Left: 469.213+/-0.107 $\chi^2$/NDF: 349994.1/11

Right: 563.103+/-0.112 $\chi^2$/NDF: 3754003.6/33

In: 519.298+/-0.108 $\chi^2$/NDF:1845114.2/21

Out: 508.358+/-0.111 $\chi^2$/NDF:2619511.9/23

All: 513.970+/-0.078 $\chi^2$/NDF: 4469597.1/45




Right In: -33.061+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: 56.622+/-533.192 $\chi^2$/NDF:6.8/5

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 203.532+/-492.849 $\chi^2$/NDF:1.8/5

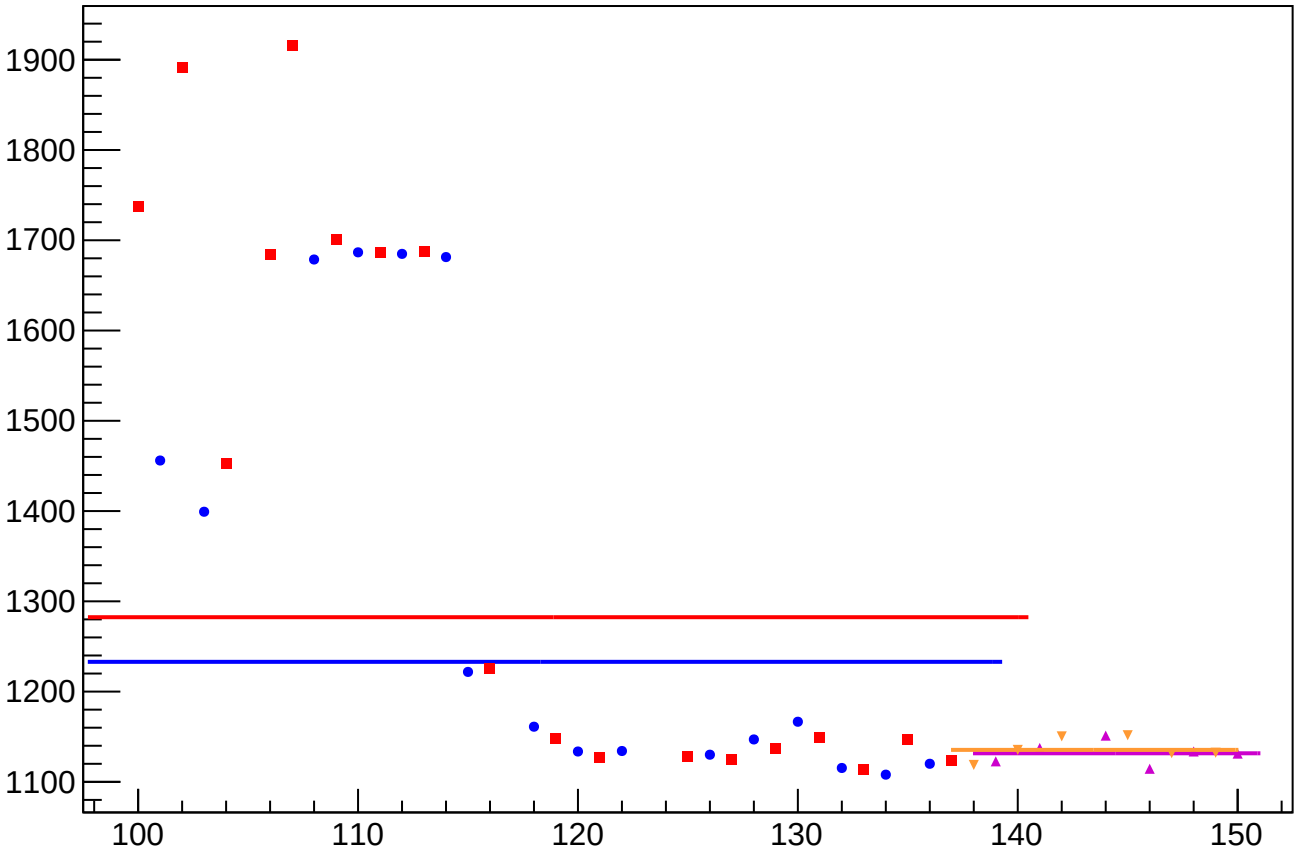
Left: 135.845+/-361.920 $\chi^2$/NDF: 8.6/11

Right: 123.057+/-334.596 $\chi^2$/NDF: 34.7/33

In: 77.909+/-337.533 $\chi^2$/NDF:12.1/21

Out: 186.466+/-358.306 $\chi^2$/NDF:31.1/23

All: 128.950+/-245.688 $\chi^2$/NDF: 43.3/45




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.2/15

Left Out: 1135.425+/-0.377 $\chi^2$/NDF:846.4/5

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.2/17

Left In: 1131.648+/-0.348 $\chi^2$/NDF:1106.8/5

Left: 1133.388+/-0.256 $\chi^2$/NDF: 2007.3/11

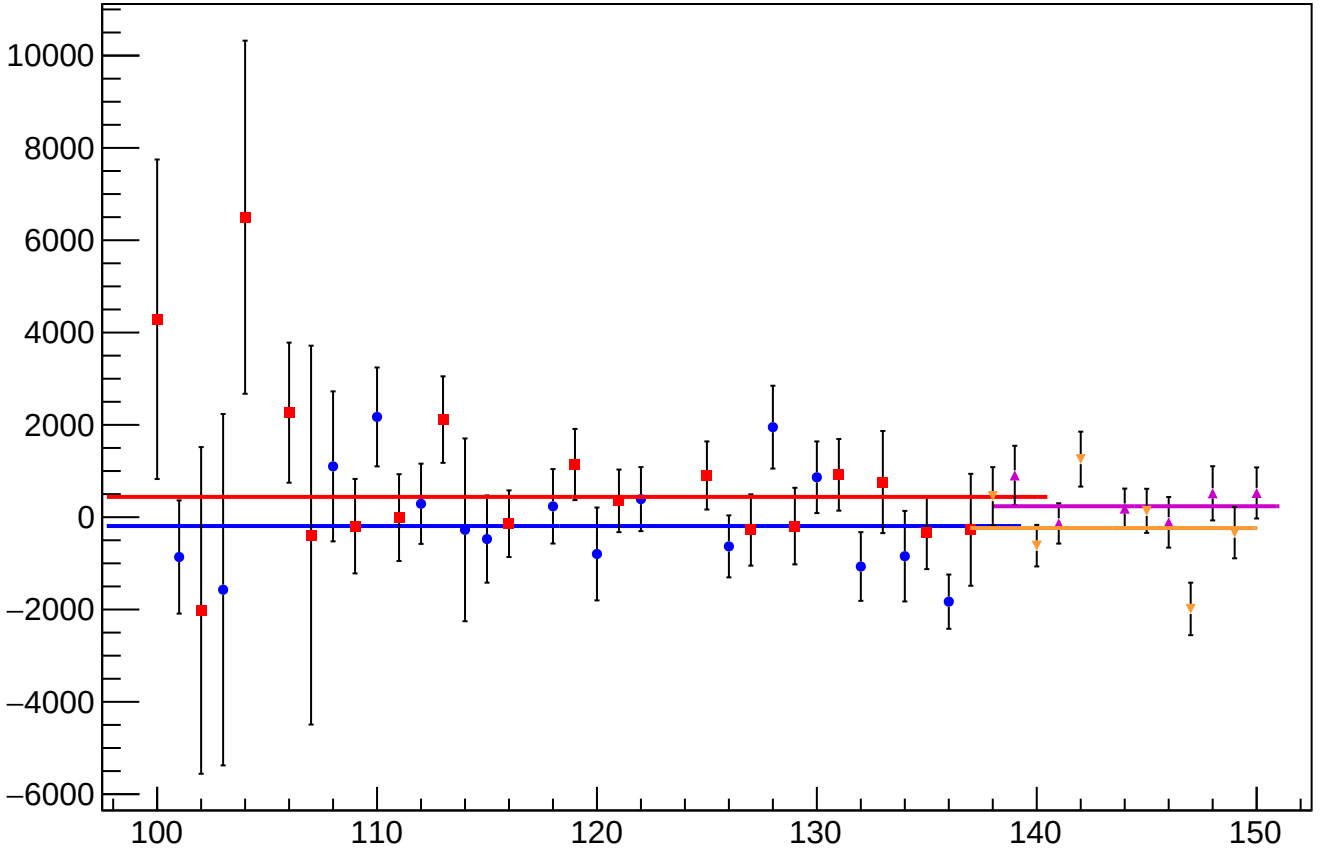
Right: 1256.610+/-0.237 $\chi^2$/NDF: 869770.2/33

In: 1185.444+/-0.239 $\chi^2$/NDF:361455.0/21

Out: 1216.032+/-0.253 $\chi^2$/NDF:627598.4/23

All: 1199.825+/-0.174 $\chi^2$/NDF: 996776.0/45

asym_usl_atl1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -191.527+/-222.763 $\chi^2$/NDF: 25.3/15

Left Out: -235.669+/-218.172 $\chi^2$/NDF:18.4/5

Right Out: 439.611+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 237.124+/-210.861 $\chi^2$/NDF:2.7/5

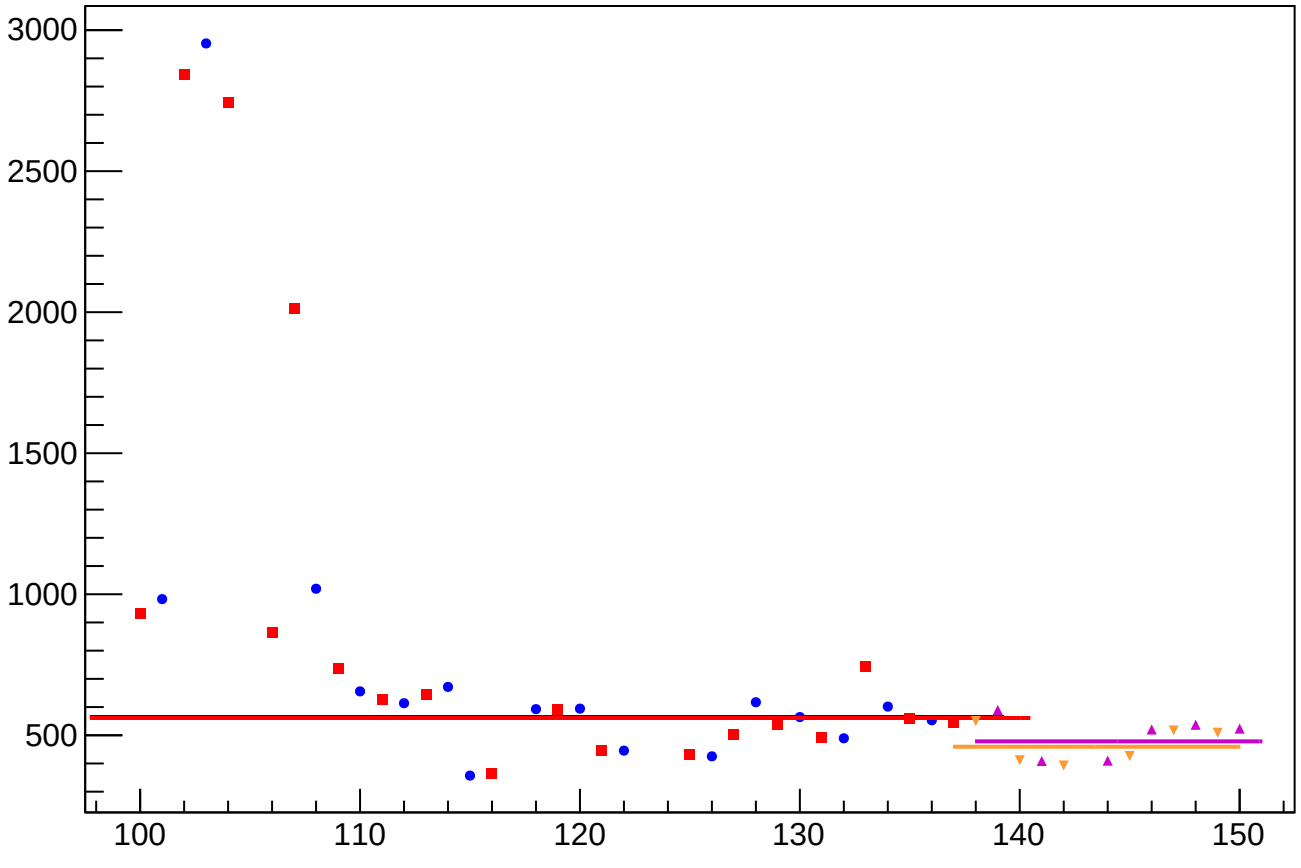
Left: 8.781+/-151.620 $\chi^2$/NDF: 23.5/11

Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: 34.555+/-153.136 $\chi^2$/NDF:30.0/21

Out: 89.178+/-157.166 $\chi^2$/NDF:37.6/23

All: 61.157+/-109.681 $\chi^2$/NDF: 67.6/45




Right In: 564.871+/-0.158 $\chi^2$/NDF: 1480372.9/15

Left Out: 459.306+/-0.154 $\chi^2$/NDF:135992.5/5

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273372.4/17

Left In: 478.465+/-0.149 $\chi^2$/NDF:206044.0/5

Left: 469.212+/-0.107 $\chi^2$/NDF: 350011.1/11

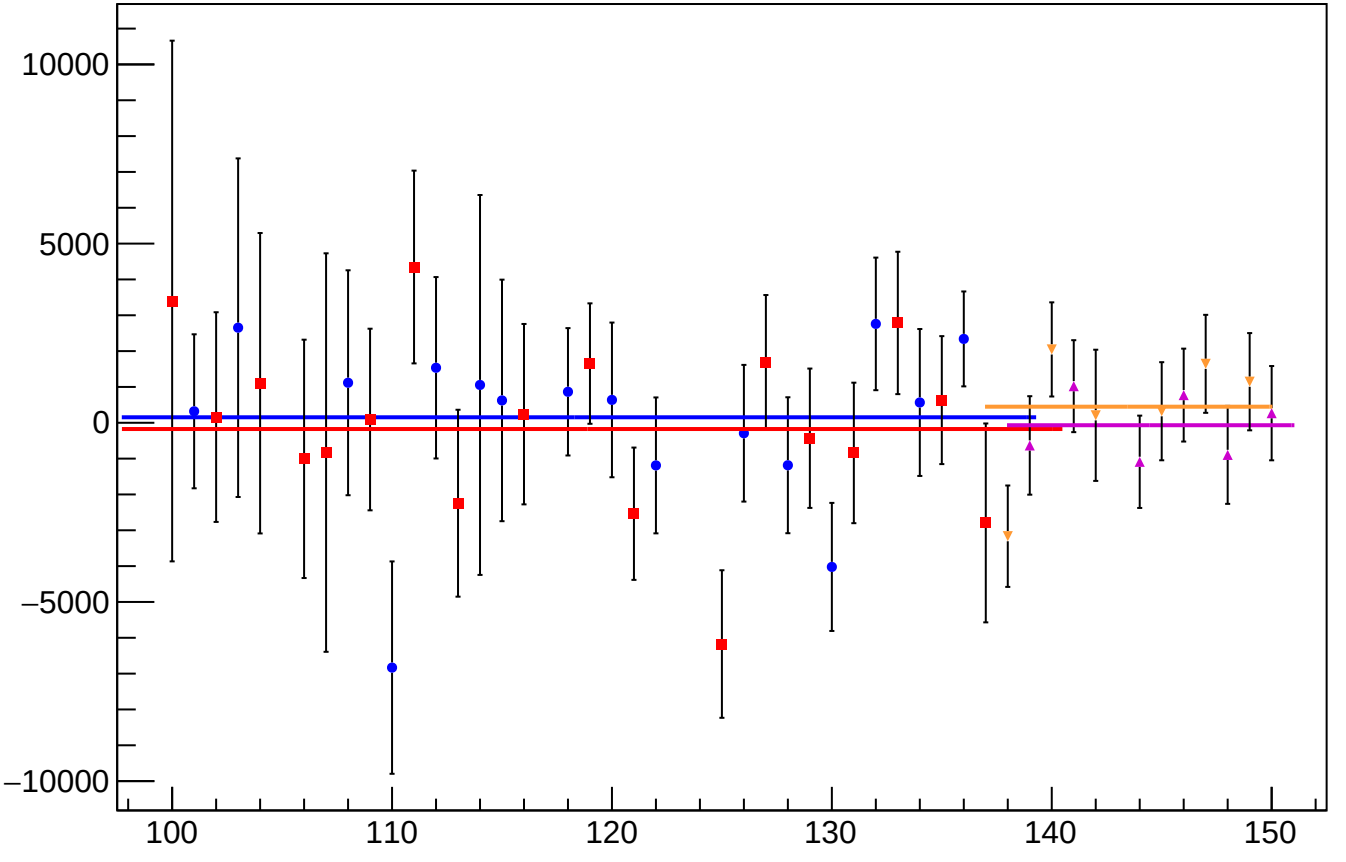
Right: 563.103+/-0.112 $\chi^2$/NDF: 3754001.7/33

In: 519.298+/-0.108 $\chi^2$/NDF:1845121.9/21

Out: 508.358+/-0.111 $\chi^2$/NDF:2619525.6/23

All: 513.970+/-0.078 $\chi^2$/NDF: 4469618.8/45

# asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: 153.375+/-532.096 $\chi^2$/NDF: 17.8/15

Left Out: 448.957+/-578.379 $\chi^2$/NDF:9.1/5

Right Out: -174.319+/-550.153 $\chi^2$/NDF: 19.7/17

Left In: -68.234+/-538.563 $\chi^2$/NDF:2.4/5

Left: 171.949+/-394.147 $\chi^2$/NDF: 11.9/11

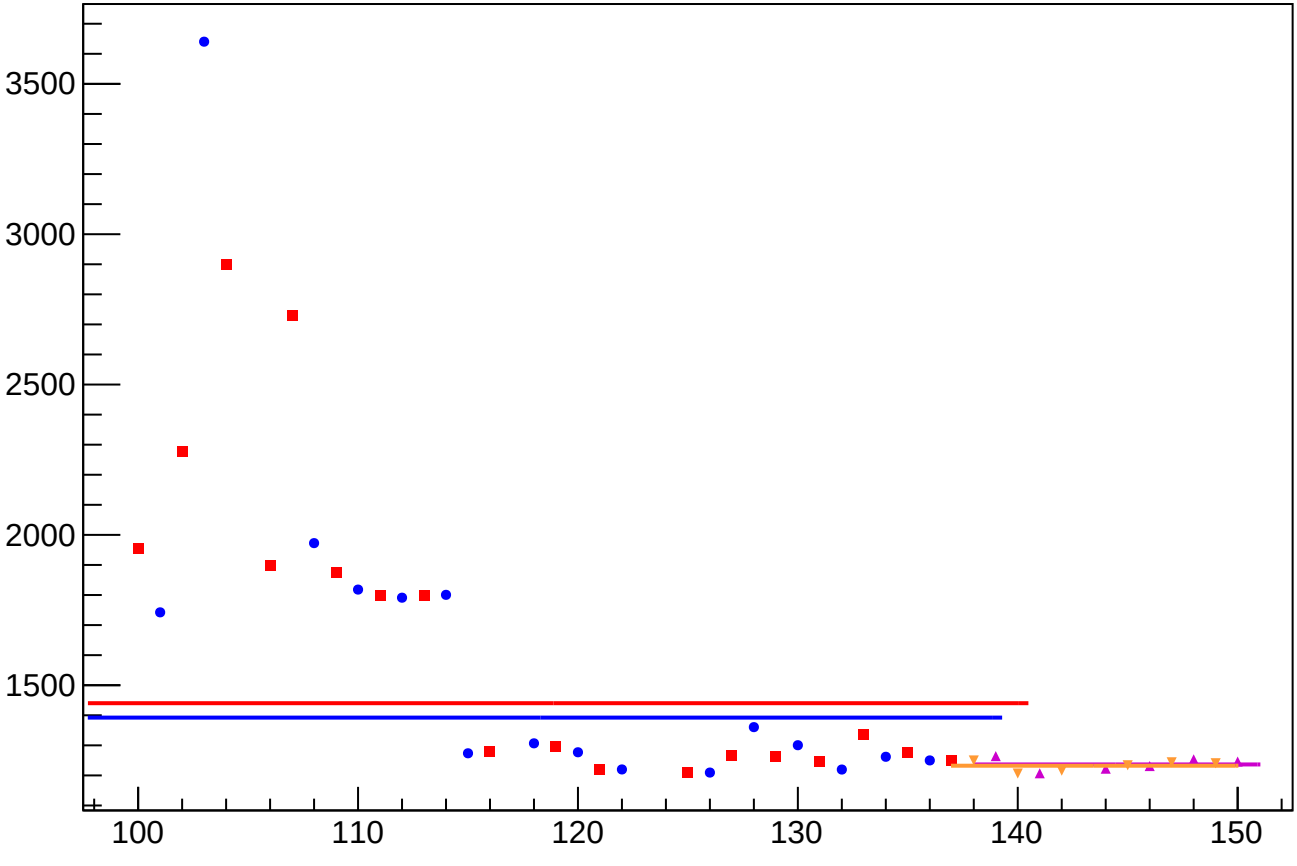
Right: -5.006+/-382.473 $\chi^2$/NDF: 37.6/33

In: 43.909+/-378.515 $\chi^2$/NDF:20.2/21

Out: 121.740+/-398.622 $\chi^2$/NDF:29.3/23

All: 80.812+/-274.483 $\chi^2$/NDF: 49.6/45

# asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1392.299+/-0.376 $\chi^2$/NDF: 779240.9/15

Left Out: 1232.290+/-0.409 $\chi^2$/NDF:1459.7/5

Right Out: 1440.222+/-0.389 $\chi^2$/NDF: 854885.8/17

Left In: 1236.486+/-0.381 $\chi^2$/NDF:2547.6/5

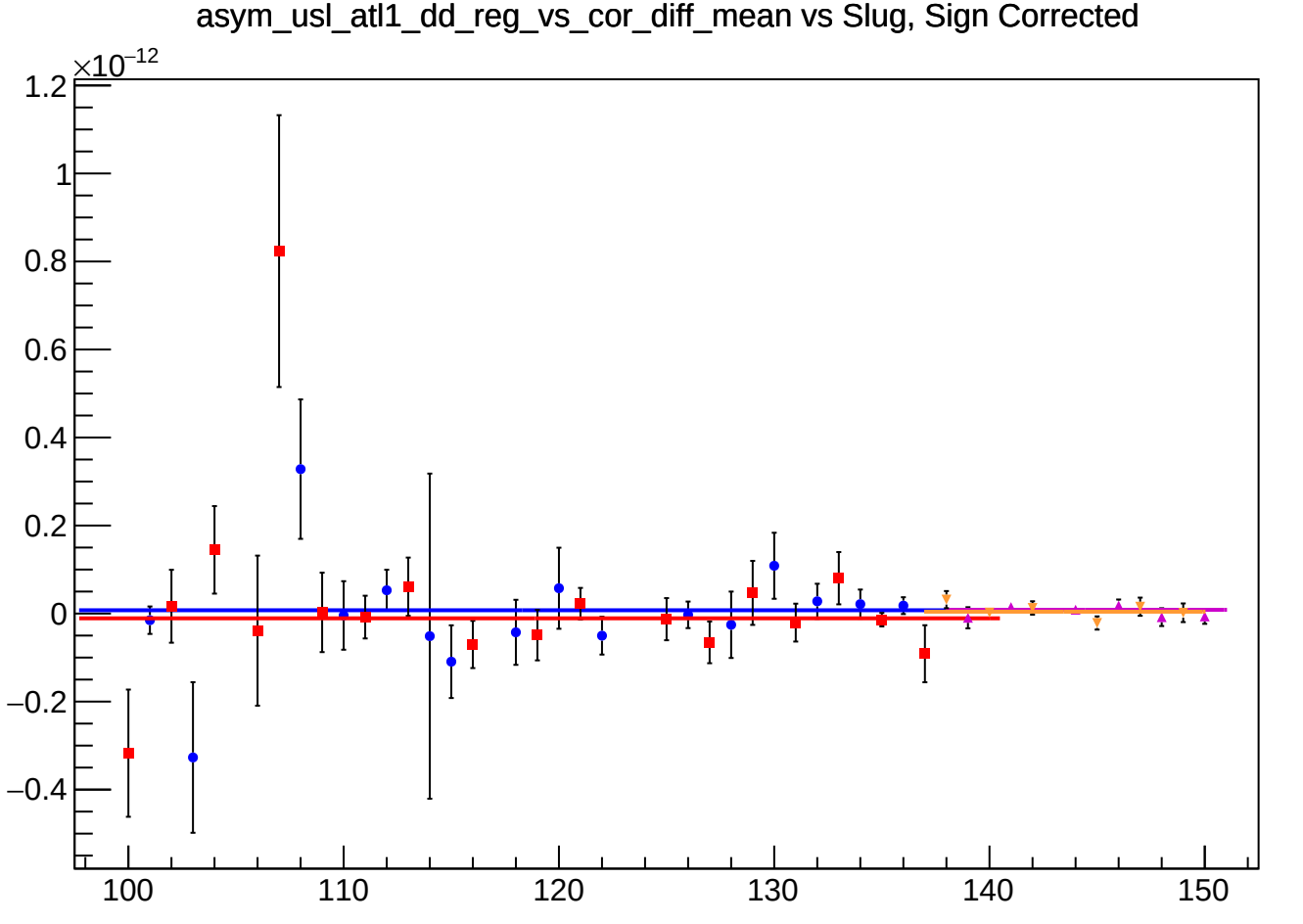
Left: 1234.538+/-0.279 $\chi^2$/NDF: 4063.6/11

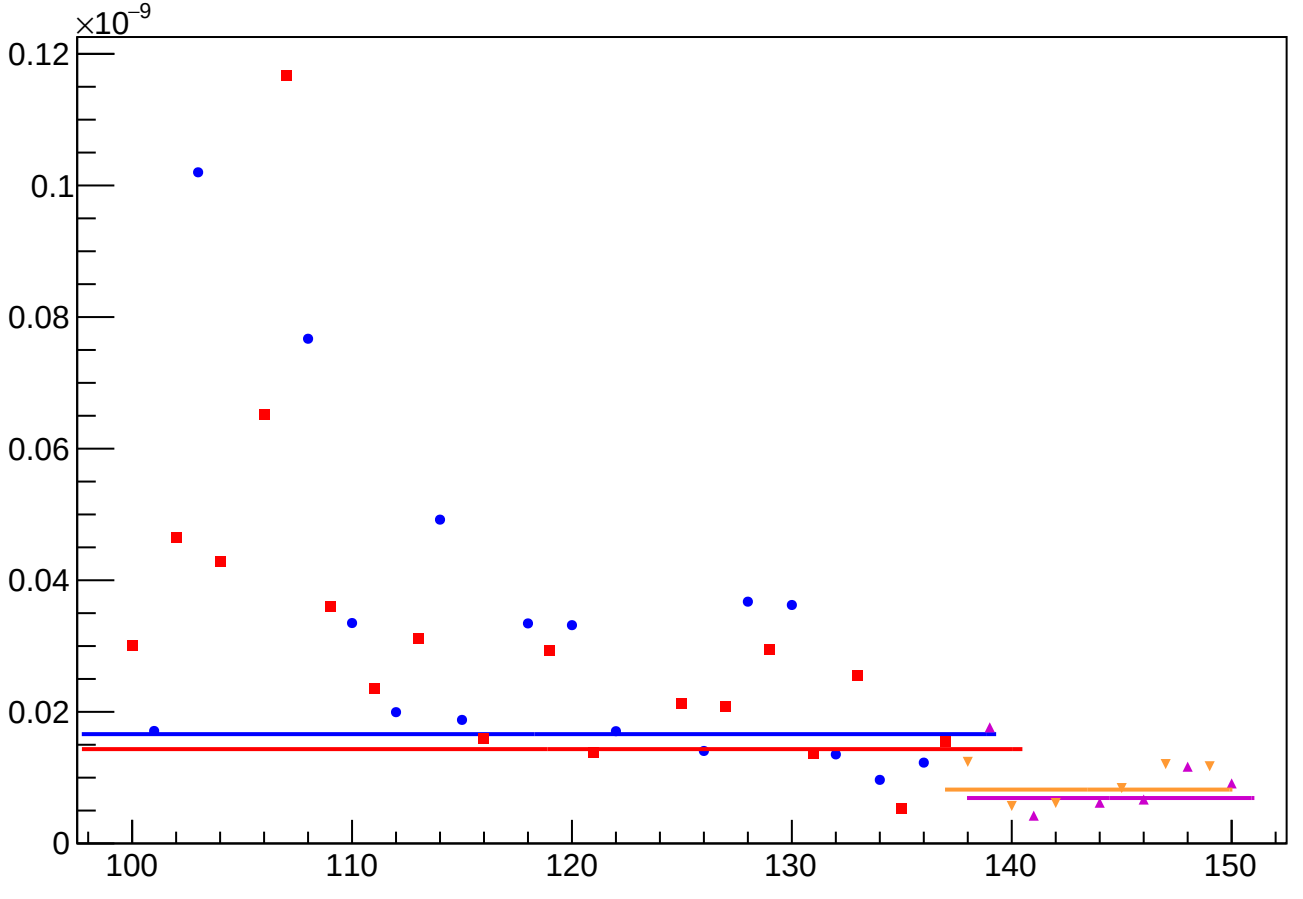
Right: 1415.461+/-0.270 $\chi^2$/NDF: 1641967.9/33

In: 1315.334+/-0.268 $\chi^2$/NDF:866500.7/21

Out: 1341.454+/-0.282 $\chi^2$/NDF:992052.6/23

All: 1327.718+/-0.194 $\chi^2$/NDF: 1863069.0/45


asym_usl_atl1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 16.9/15
Left Out: 0.000+/-0.000 χ²/NDF:5.6/5
Right Out: -0.000+/-0.000 χ²/NDF: 24.0/17
Left In: 0.000+/-0.000 χ²/NDF:3.0/5
Left: 0.000+/-0.000 χ²/NDF: 8.8/11
Right: -0.000+/-0.000 χ²/NDF: 42.4/33
In: 0.000+/-0.000 χ²/NDF:19.9/21
Out: 0.000+/-0.000 χ²/NDF:31.1/23
All: 0.000+/-0.000 χ²/NDF: 52.2/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1573068.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:357777.5/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2258014.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:719814.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1123580.5/11

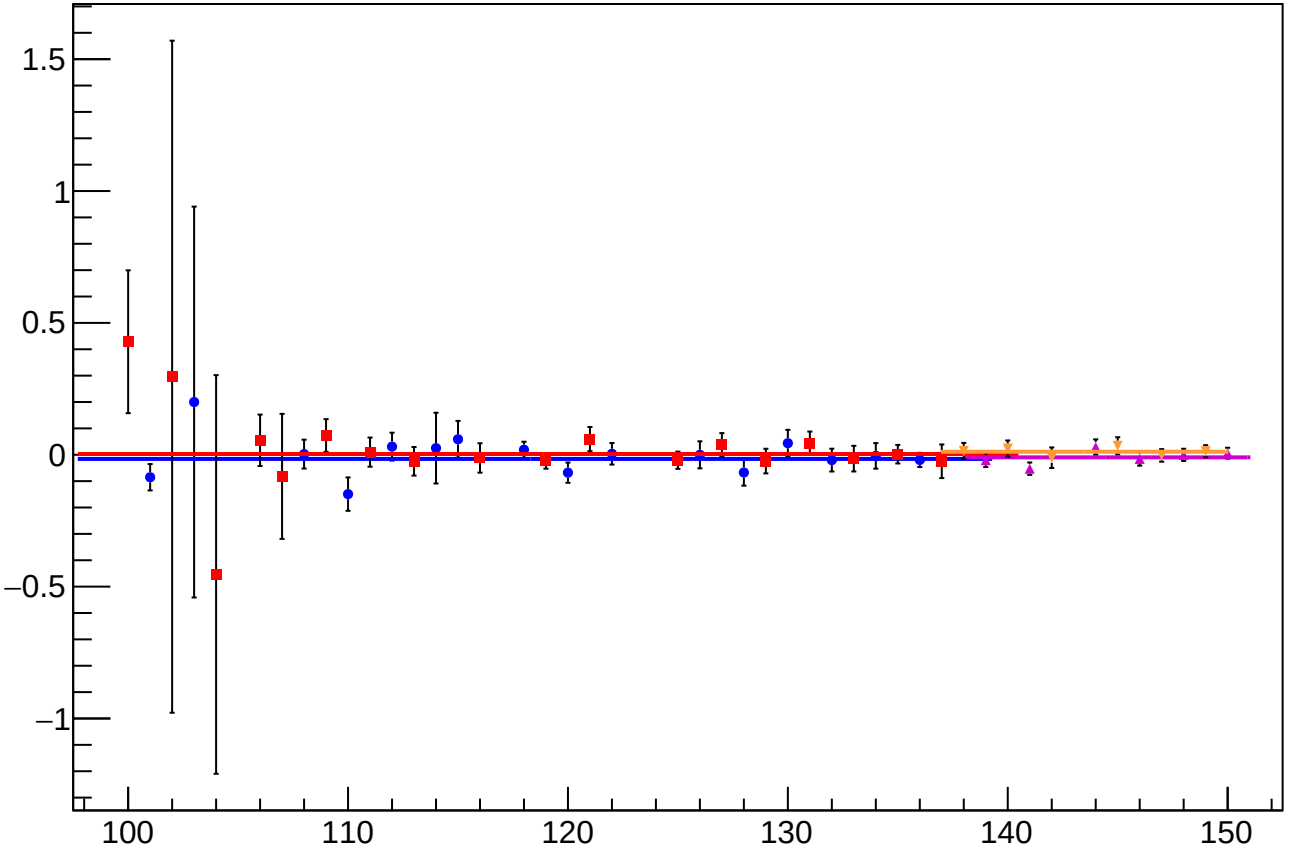
Right: 0.000+/-0.000 $\chi^2$/NDF: 3876075.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:3564135.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3107490.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6705776.0/45

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.012+/-0.012 $\chi^2$/NDF:1.3/5

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.010+/-0.010 $\chi^2$/NDF:6.1/5

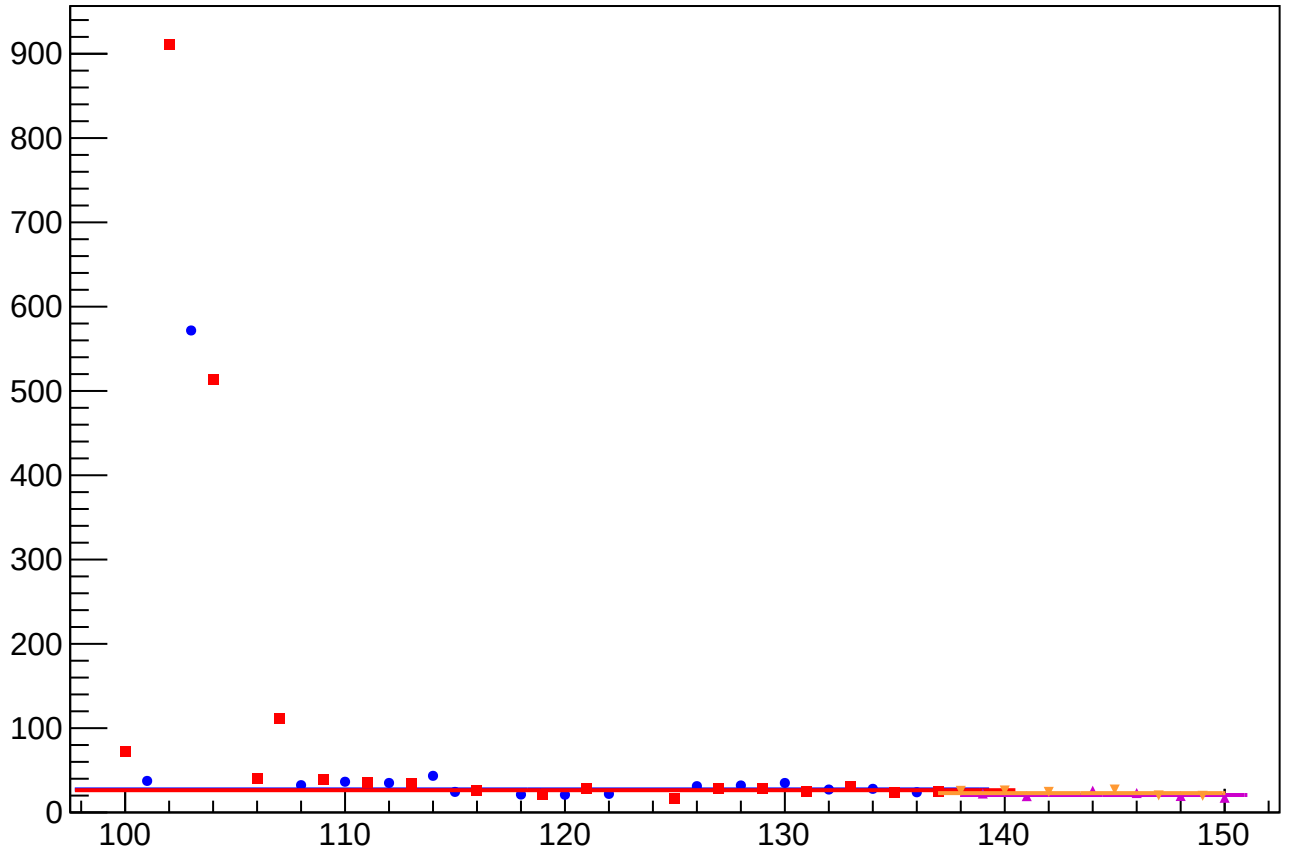
Left: -0.001+/-0.008 $\chi^2$/NDF: 9.4/11

Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.012+/-0.008 $\chi^2$/NDF:20.9/21

Out: 0.007+/-0.008 $\chi^2$/NDF:11.5/23

All: -0.004+/-0.006 $\chi^2$/NDF: 35.4/45




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568329.0/15

Left Out: 22.940+/-0.008 $\chi^2$/NDF:137385.4/5

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 20.701+/-0.007 $\chi^2$/NDF:149488.9/5

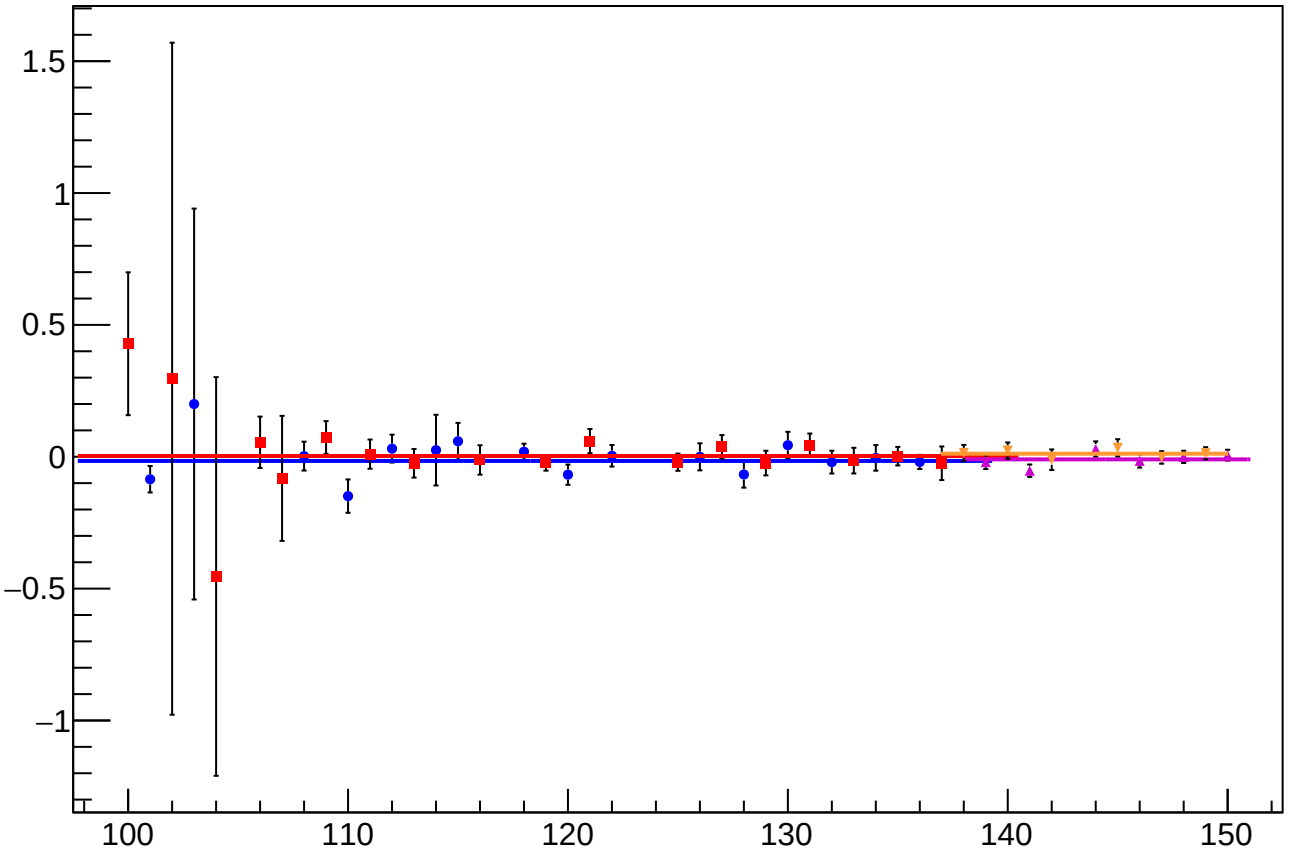
Left: 21.641+/-0.005 $\chi^2$/NDF: 329685.1/11

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 23.500+/-0.005 $\chi^2$/NDF:2093873.0/21

Out: 24.616+/-0.006 $\chi^2$/NDF:2837514.4/23

All: 23.999+/-0.004 $\chi^2$/NDF: 4951030.7/45




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.012+/-0.012 $\chi^2$/NDF:1.3/5

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.010+/-0.010 $\chi^2$/NDF:6.1/5

Left: -0.001+/-0.008 $\chi^2$/NDF: 9.4/11

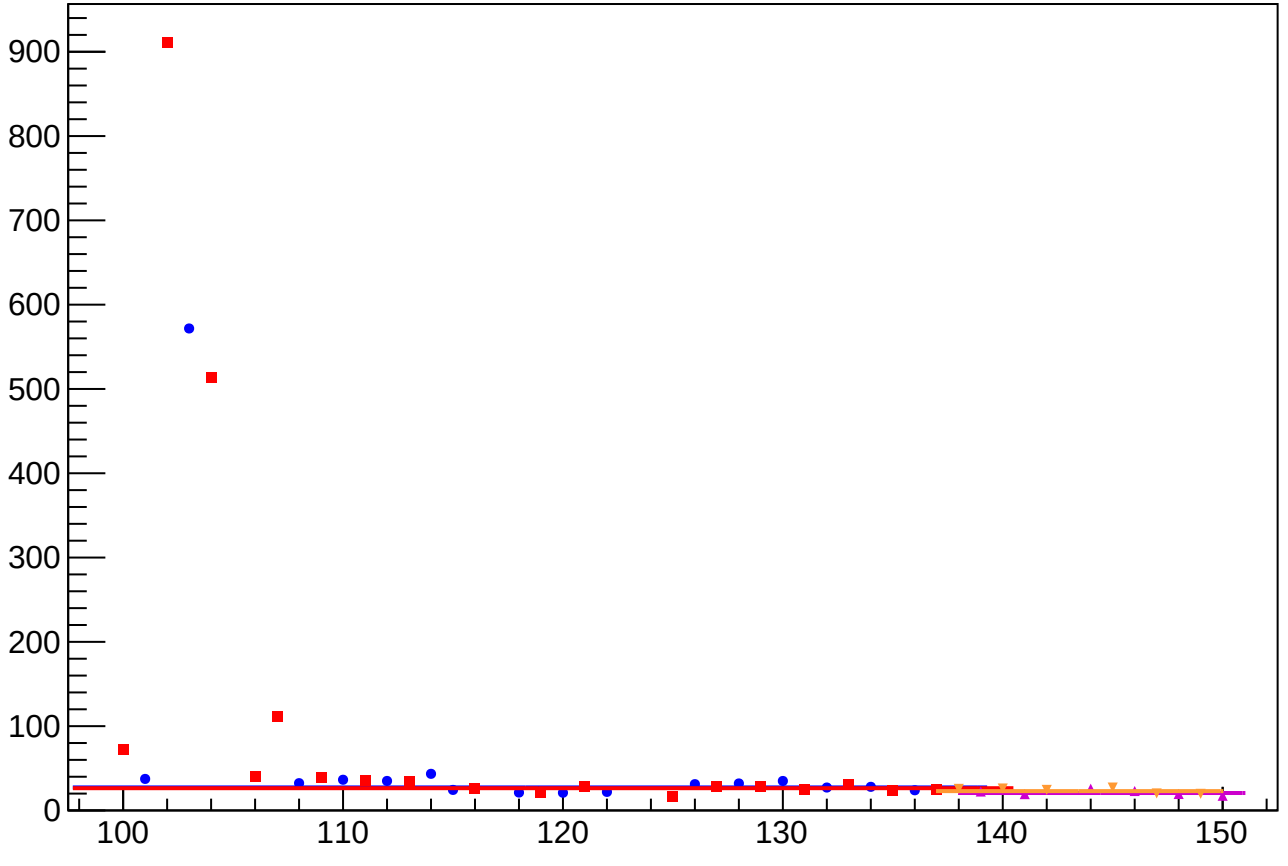
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.012+/-0.008 $\chi^2$/NDF:20.9/21

Out: 0.007+/-0.008 $\chi^2$/NDF:11.5/23

All: -0.004+/-0.006 $\chi^2$/NDF: 35.4/45

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568329.0/15

Left Out: 22.940+/-0.008 $\chi^2$/NDF:137385.4/5

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 20.701+/-0.007 $\chi^2$/NDF:149488.9/5

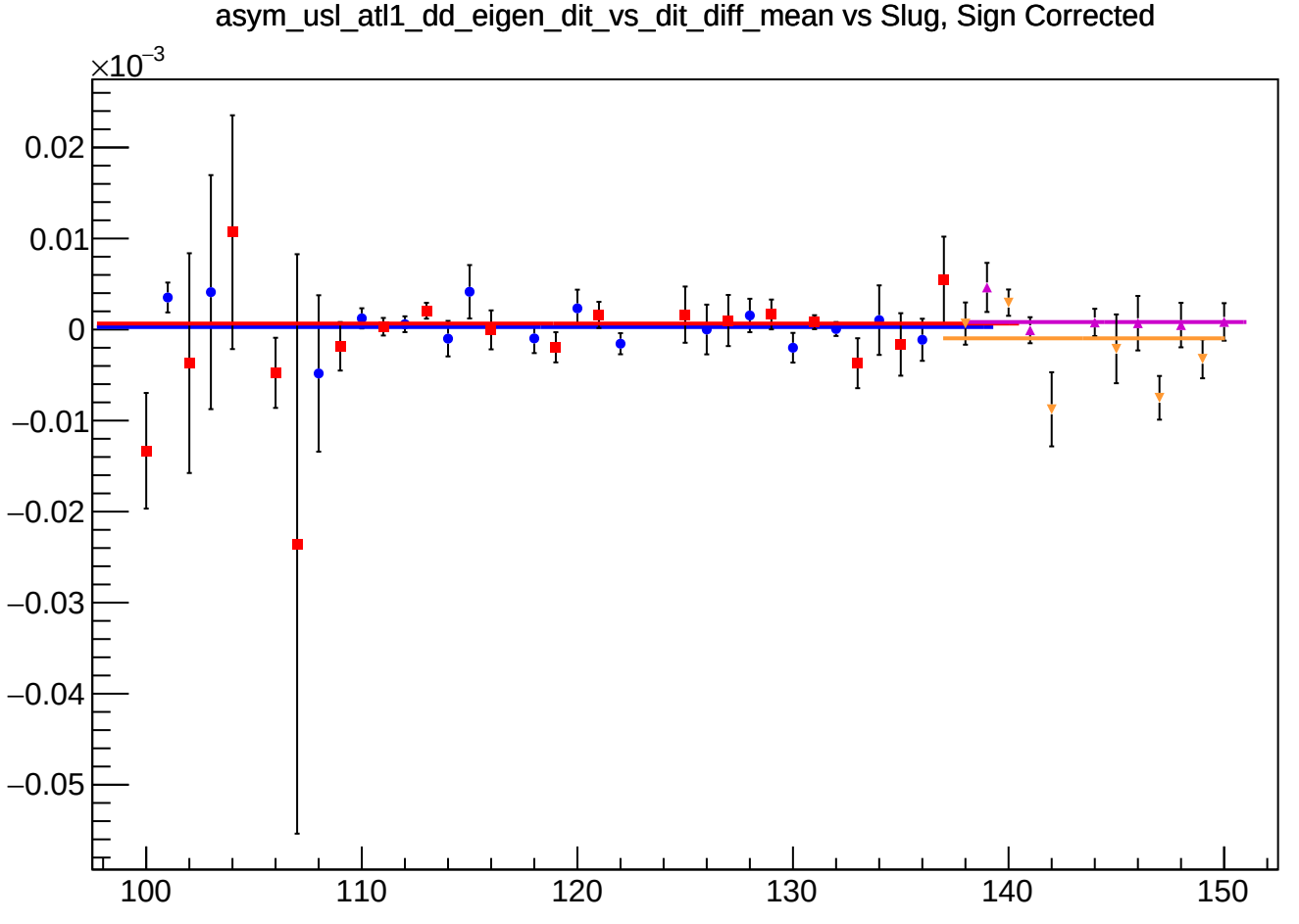
Left: 21.641+/-0.005 $\chi^2$/NDF: 329685.1/11

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 23.500+/-0.005 $\chi^2$/NDF:2093873.0/21

Out: 24.616+/-0.006 $\chi^2$/NDF:2837514.4/23

All: 23.999+/-0.004 $\chi^2$/NDF: 4951030.7/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 24.7/11

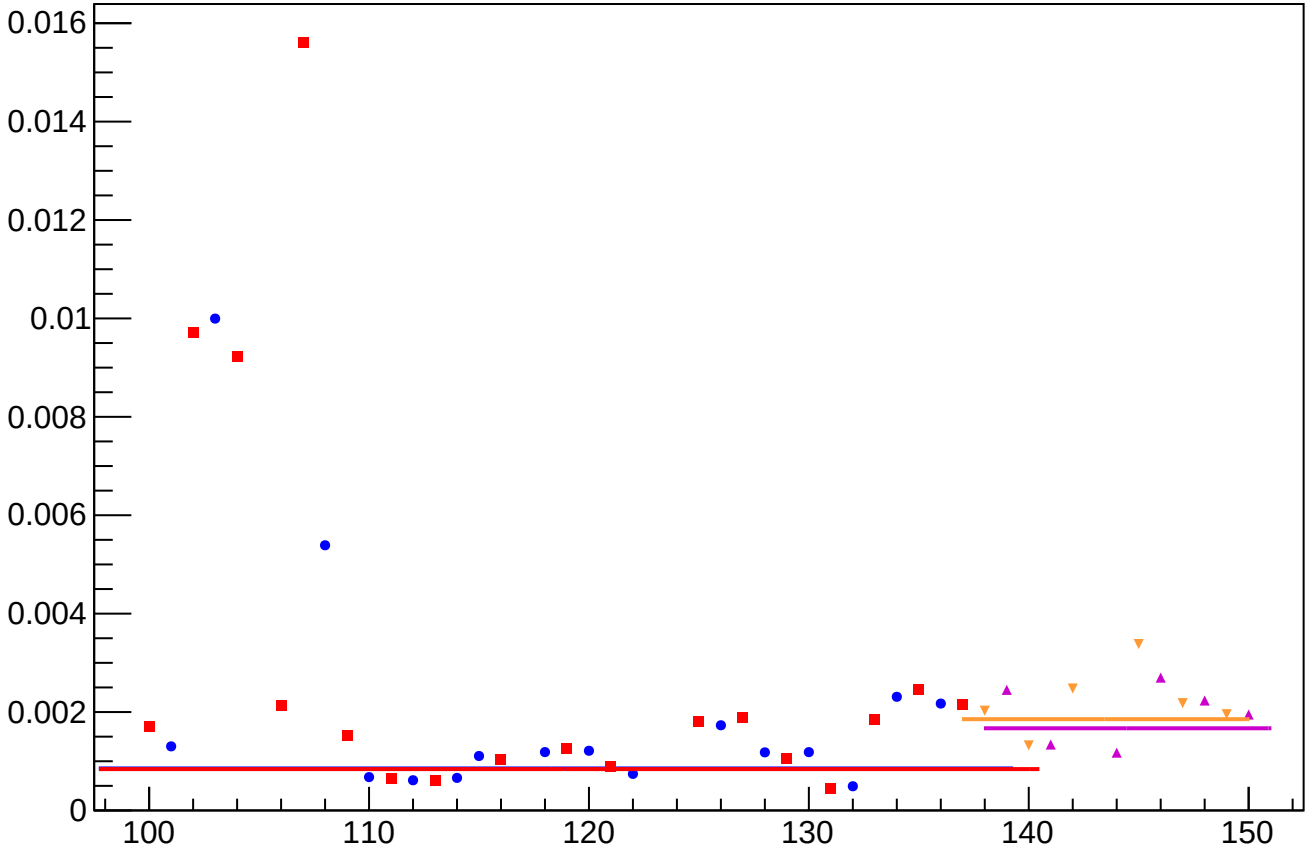
Right: 0.000+/-0.000 $\chi^2$/NDF: 34.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:42.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 59.2/45

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3863719.0/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:697154.6/5

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5039455.2/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:873301.4/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 1617035.0/11

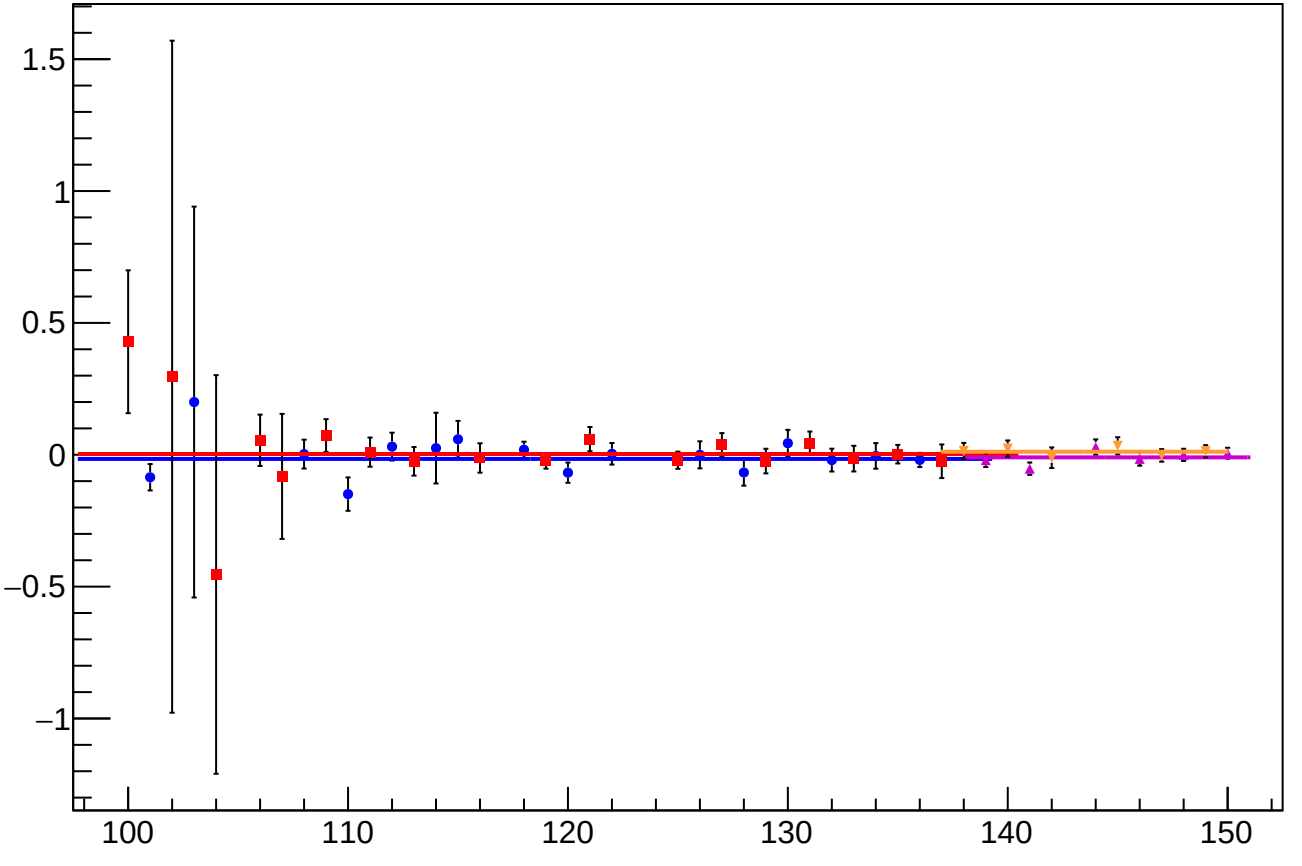
Right: 0.001+/-0.000 $\chi^2$/NDF: 8904244.0/33

In: 0.001+/-0.000 $\chi^2$/NDF:6466681.2/21

Out: 0.001+/-0.000 $\chi^2$/NDF:7791974.4/23

All: 0.001+/-0.000 $\chi^2$/NDF: 14258670.5/45

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.012+/-0.012 $\chi^2$/NDF:1.3/5

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.010+/-0.010 $\chi^2$/NDF:6.1/5

Left: -0.001+/-0.008 $\chi^2$/NDF: 9.4/11

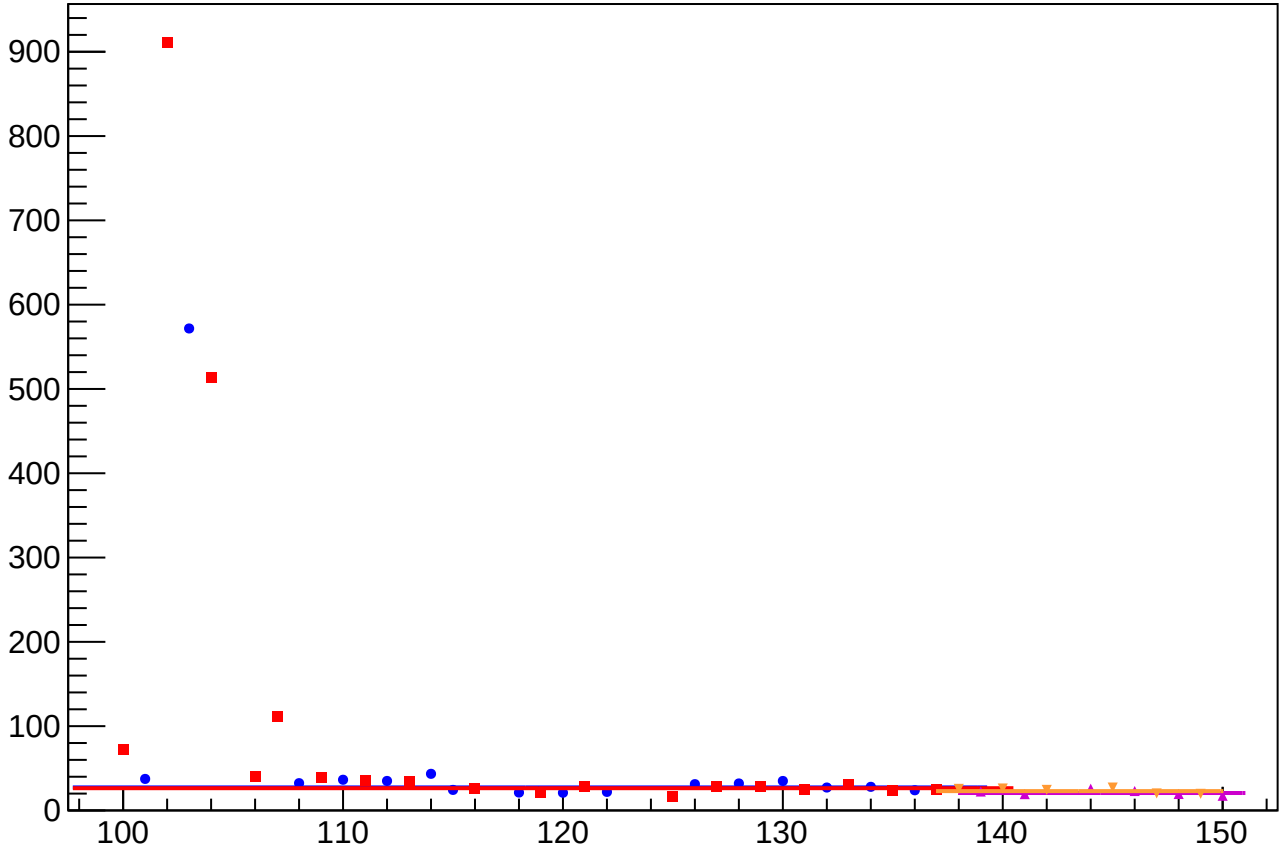
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.012+/-0.008 $\chi^2$/NDF:20.9/21

Out: 0.007+/-0.008 $\chi^2$/NDF:11.5/23

All: -0.004+/-0.006 $\chi^2$/NDF: 35.4/45

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568325.9/15

Left Out: 22.940+/-0.008 $\chi^2$/NDF:137358.9/5

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 20.701+/-0.007 $\chi^2$/NDF:149461.5/5

Left: 21.642+/-0.005 $\chi^2$/NDF: 329628.1/11

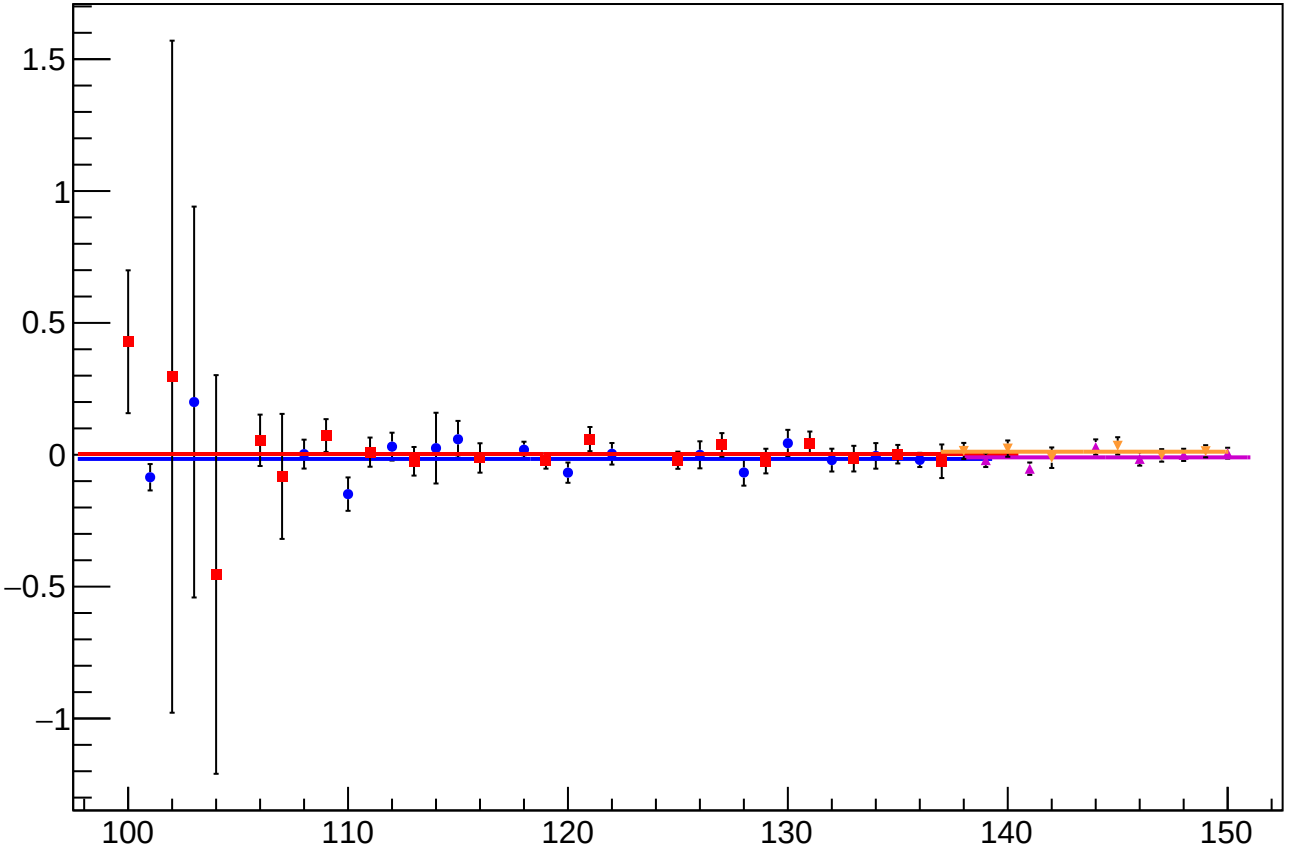
Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 23.501+/-0.005 $\chi^2$/NDF:2093828.0/21

Out: 24.616+/-0.006 $\chi^2$/NDF:2837504.7/23

All: 23.999+/-0.004 $\chi^2$/NDF: 4950973.9/45

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.012+/-0.012 $\chi^2$/NDF:1.3/5

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.010+/-0.010 $\chi^2$/NDF:6.1/5

Left: -0.001+/-0.008 $\chi^2$/NDF: 9.4/11

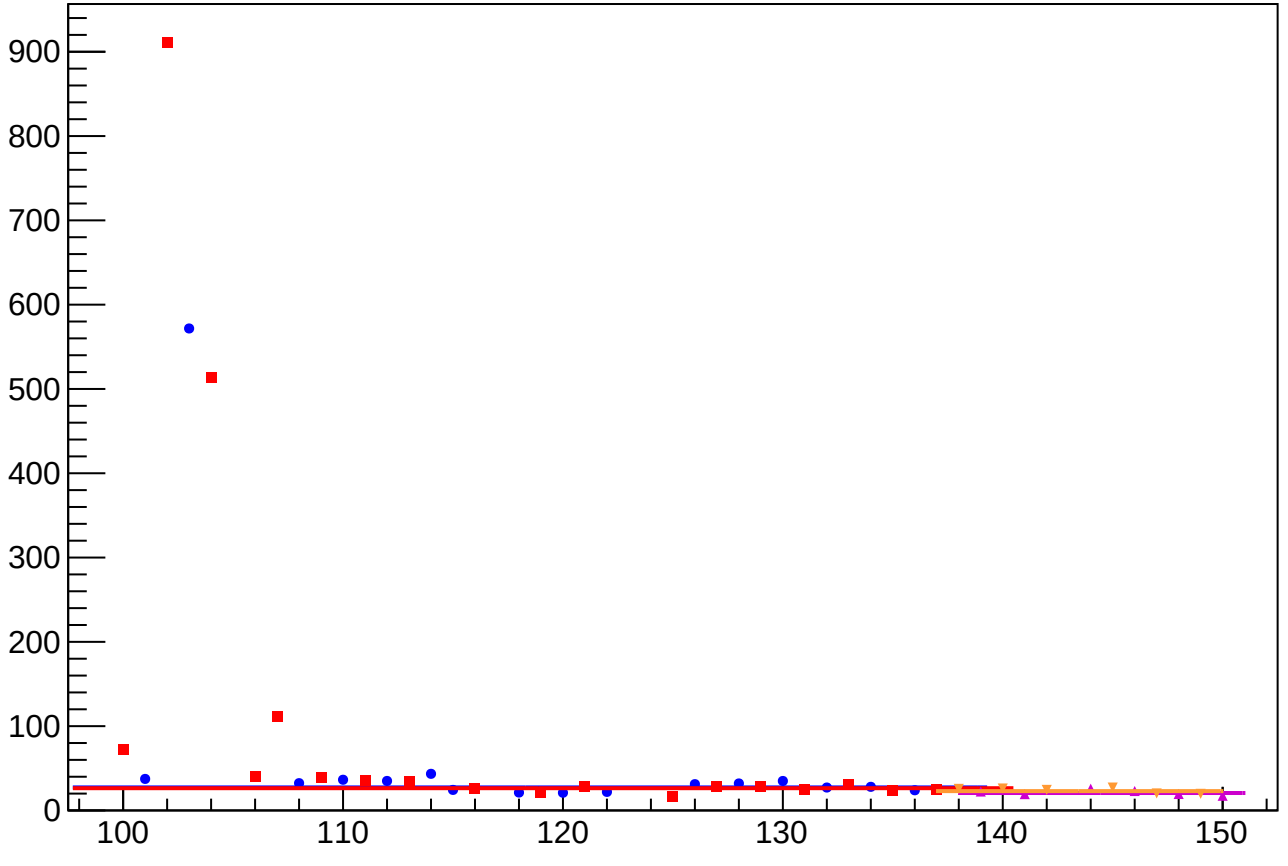
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.012+/-0.008 $\chi^2$/NDF:20.9/21

Out: 0.007+/-0.008 $\chi^2$/NDF:11.5/23

All: -0.004+/-0.006 $\chi^2$/NDF: 35.4/45

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568325.9/15

Left Out: 22.940+/-0.008 $\chi^2$/NDF:137358.9/5

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 20.701+/-0.007 $\chi^2$/NDF:149461.5/5

Left: 21.642+/-0.005 $\chi^2$/NDF: 329628.1/11

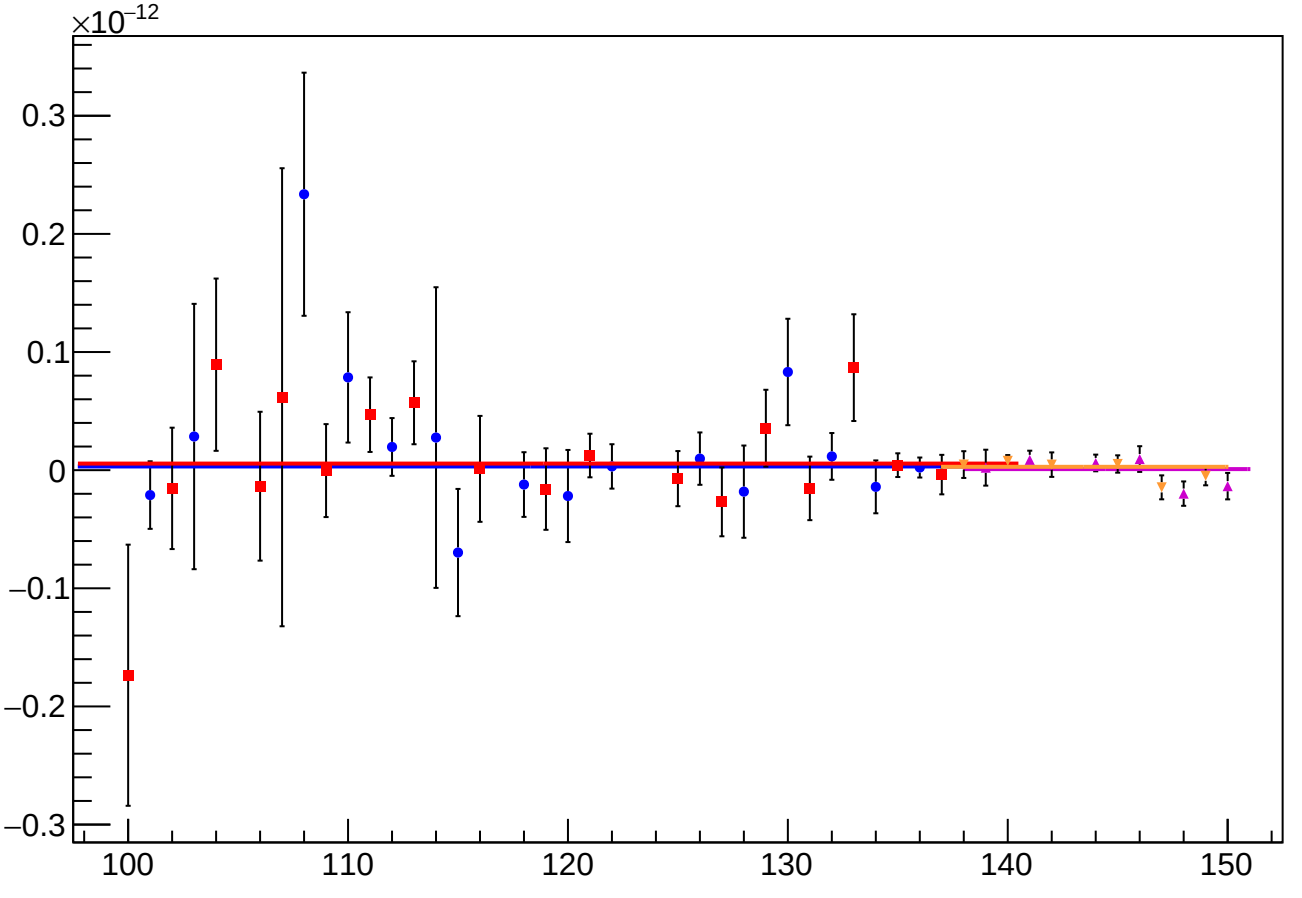
Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 23.501+/-0.005 $\chi^2$/NDF:2093828.0/21

Out: 24.616+/-0.006 $\chi^2$/NDF:2837504.7/23

All: 23.999+/-0.004 $\chi^2$/NDF: 4950973.9/45

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.0/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 13.0/11

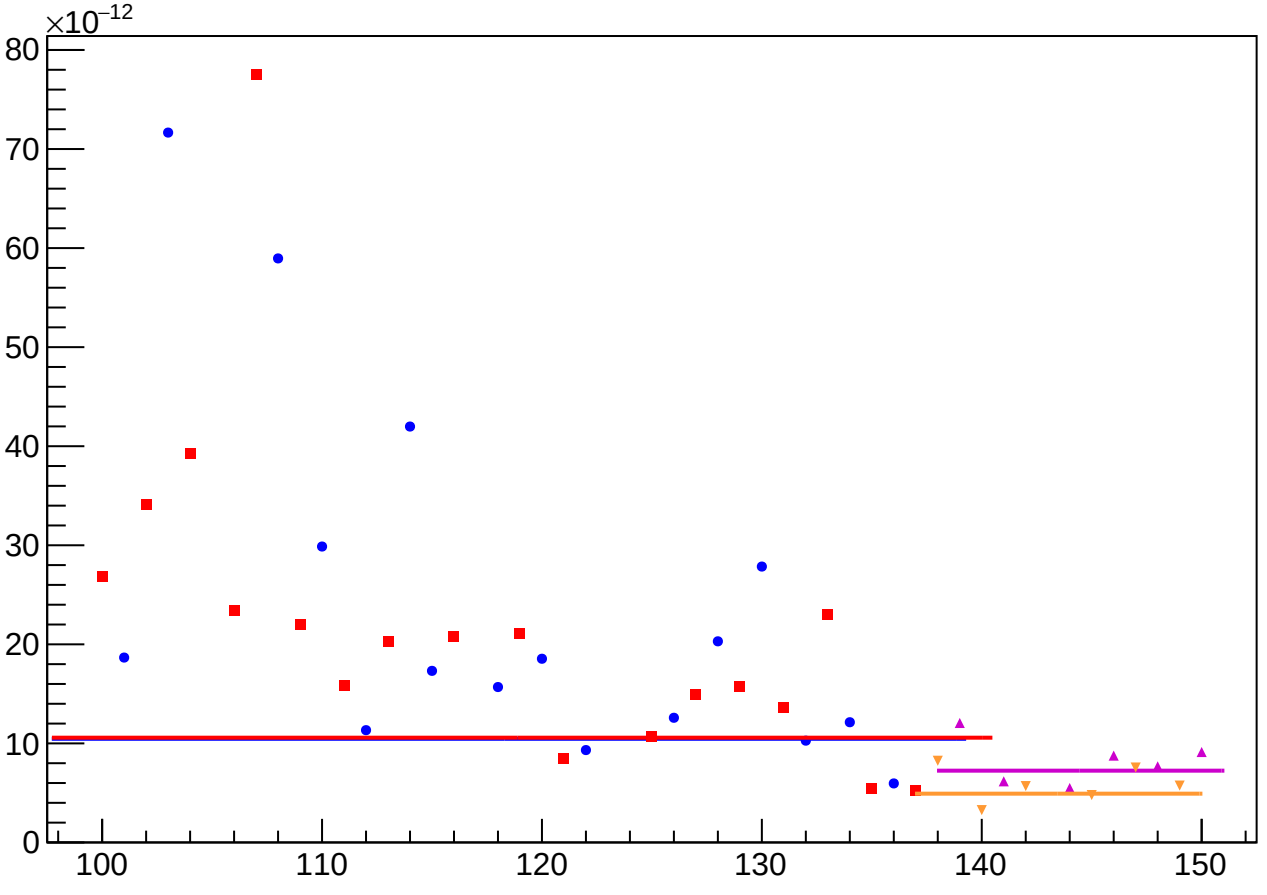
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:23.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:20.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 43.6/45

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2794895.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:567360.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2771384.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:460788.9/5

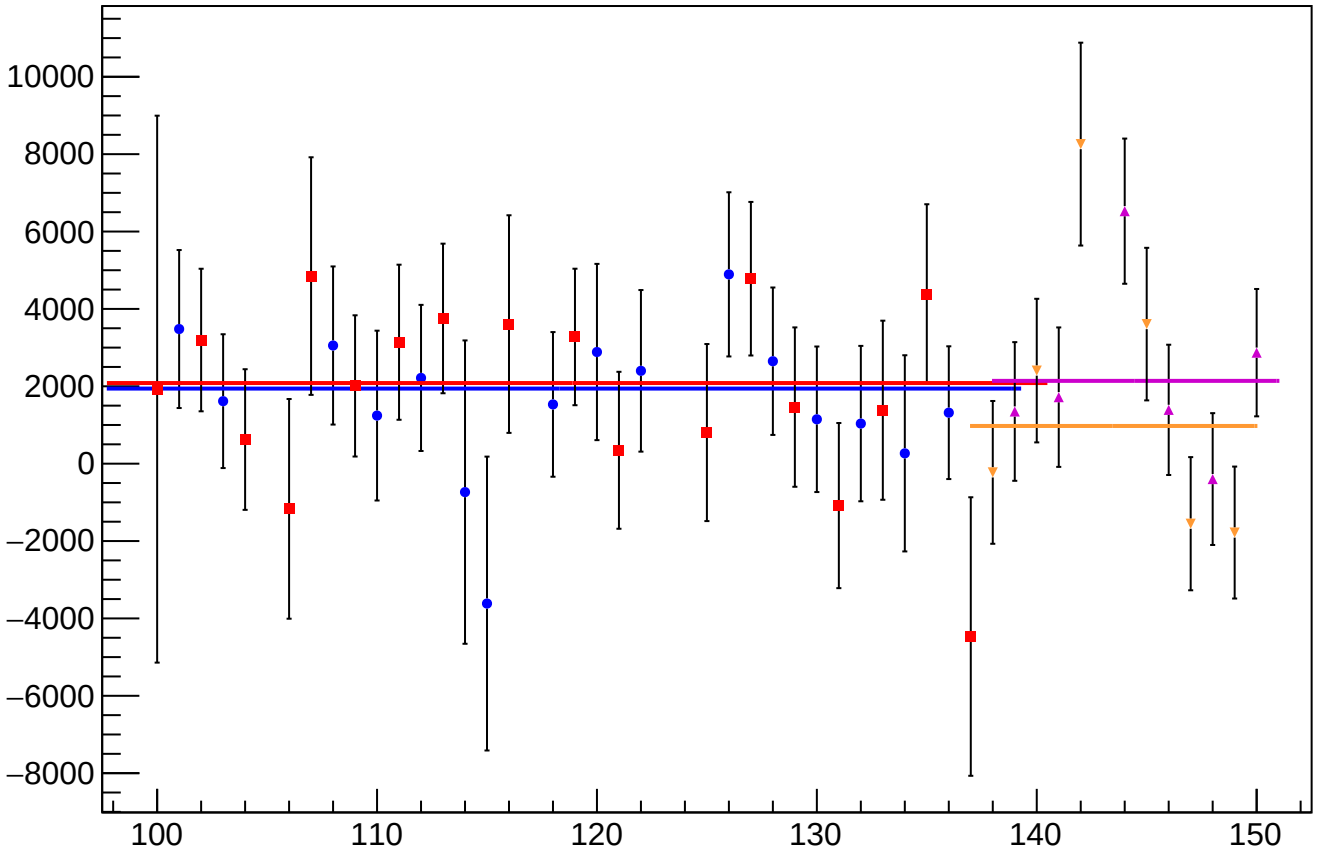
Left: 0.000+/-0.000 $\chi^2$/NDF: 1463106.5/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 5566631.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:3687380.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4702305.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8898953.5/45




Right In: 1940.976+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 974.577+/-774.251 $\chi^2$/NDF:15.3/5

Right Out: 2083.952+/-519.583 $\chi^2$/NDF: 14.5/17

Left In: 2140.195+/-712.523 $\chi^2$/NDF:8.3/5

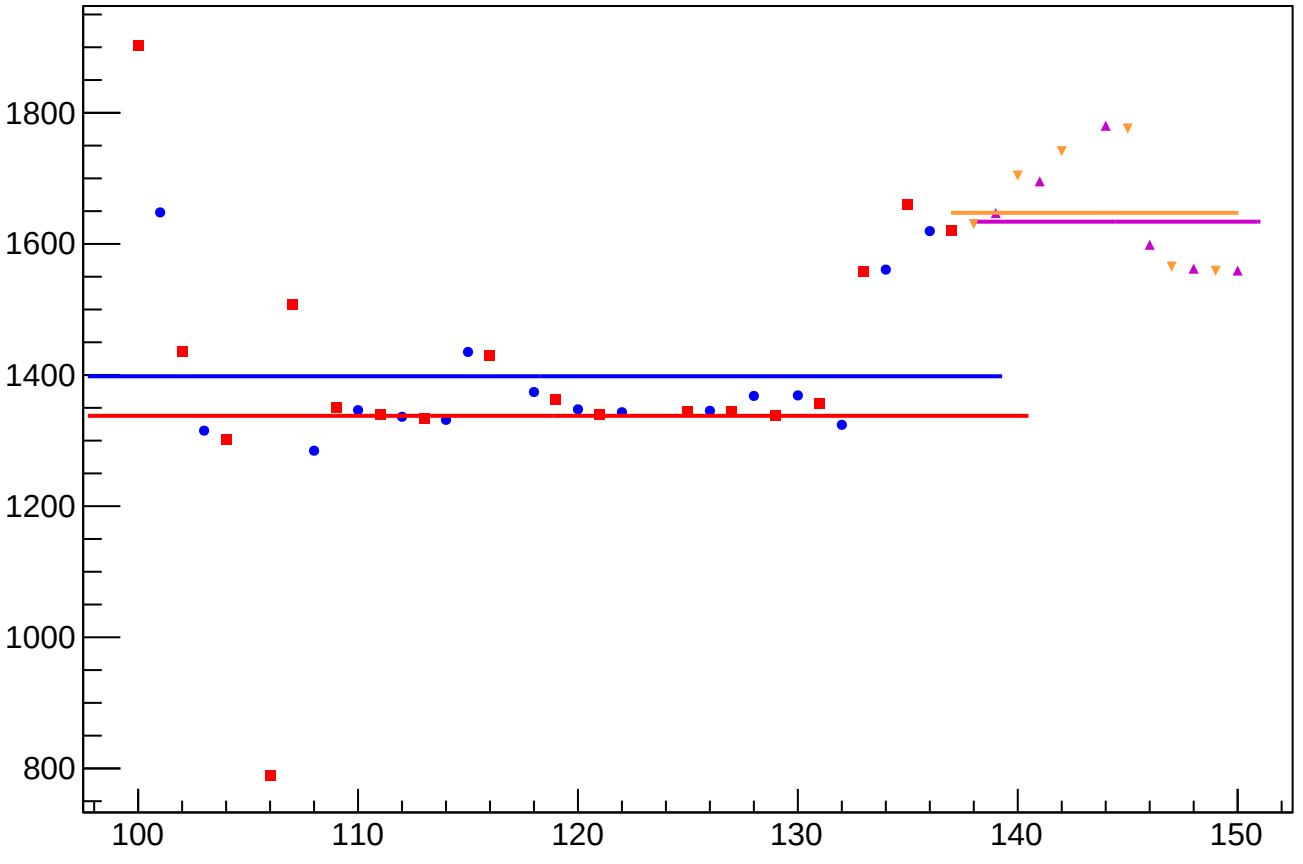
Left: 1605.697+/-524.296 $\chi^2$/NDF: 24.8/11

Right: 2012.819+/-368.313 $\chi^2$/NDF: 21.4/33

In: 2010.585+/-421.180 $\chi^2$/NDF:15.3/21

Out: 1739.480+/-431.439 $\chi^2$/NDF:31.2/23

All: 1878.294+/-301.381 $\chi^2$/NDF: 46.7/45




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1647.516+/-0.547 $\chi^2$/NDF:23049.8/5

Right Out: 1337.819+/-0.356 $\chi^2$/NDF: 317763.3/17

Left In: 1633.984+/-0.504 $\chi^2$/NDF:23112.5/5

Left: 1640.189+/-0.371 $\chi^2$/NDF: 46493.0/11

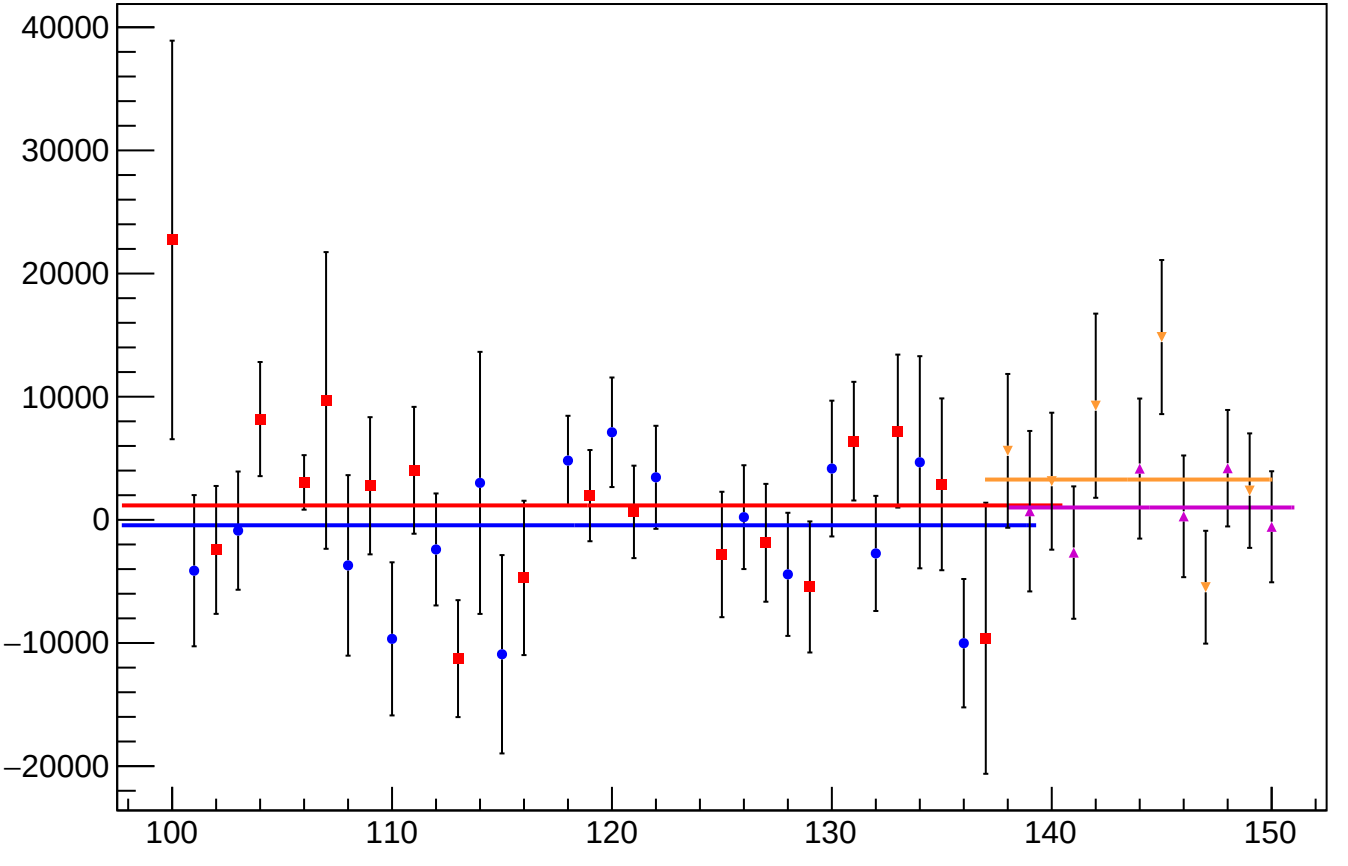
Right: 1366.881+/-0.256 $\chi^2$/NDF: 425531.4/33

In: 1480.561+/-0.298 $\chi^2$/NDF:259568.1/21

Out: 1429.820+/-0.298 $\chi^2$/NDF:565746.7/23

All: 1455.239+/-0.211 $\chi^2$/NDF: 839800.5/45

asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -441.138+/-1295.916 $\chi^2$/NDF: 15.9/15

Left Out: 3272.368+/-2262.568 $\chi^2$/NDF:7.9/5

Right Out: 1171.548+/-1119.890 $\chi^2$/NDF: 19.7/17

Left In: 1004.021+/-2113.040 $\chi^2$/NDF:1.4/5

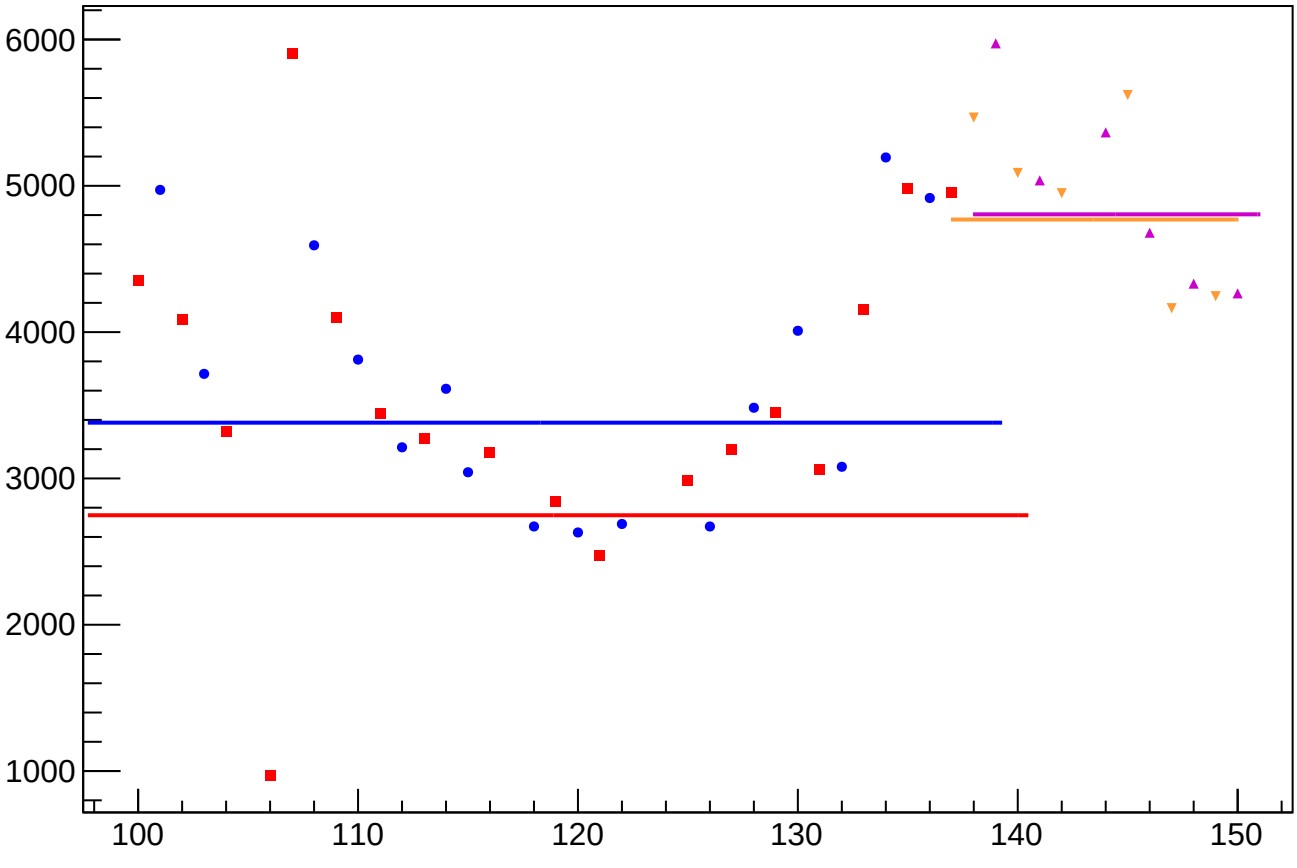
Left: 2060.768+/-1544.303 $\chi^2$/NDF: 9.8/11

Right: 482.092+/-847.335 $\chi^2$/NDF: 36.5/33

In: -46.140+/-1104.707 $\chi^2$/NDF:17.6/21

Out: 1584.948+/-1003.673 $\chi^2$/NDF:28.2/23

All: 847.387+/-742.861 $\chi^2$/NDF: 47.1/45




Right In: 3381.117+/-0.916 $\chi^2$/NDF: 757146.6/15

Left Out: 4769.663+/-1.600 $\chi^2$/NDF:130031.3/5

Right Out: 2748.372+/-0.792 $\chi^2$/NDF: 2264563.8/17

Left In: 4805.057+/-1.494 $\chi^2$/NDF:137529.2/5

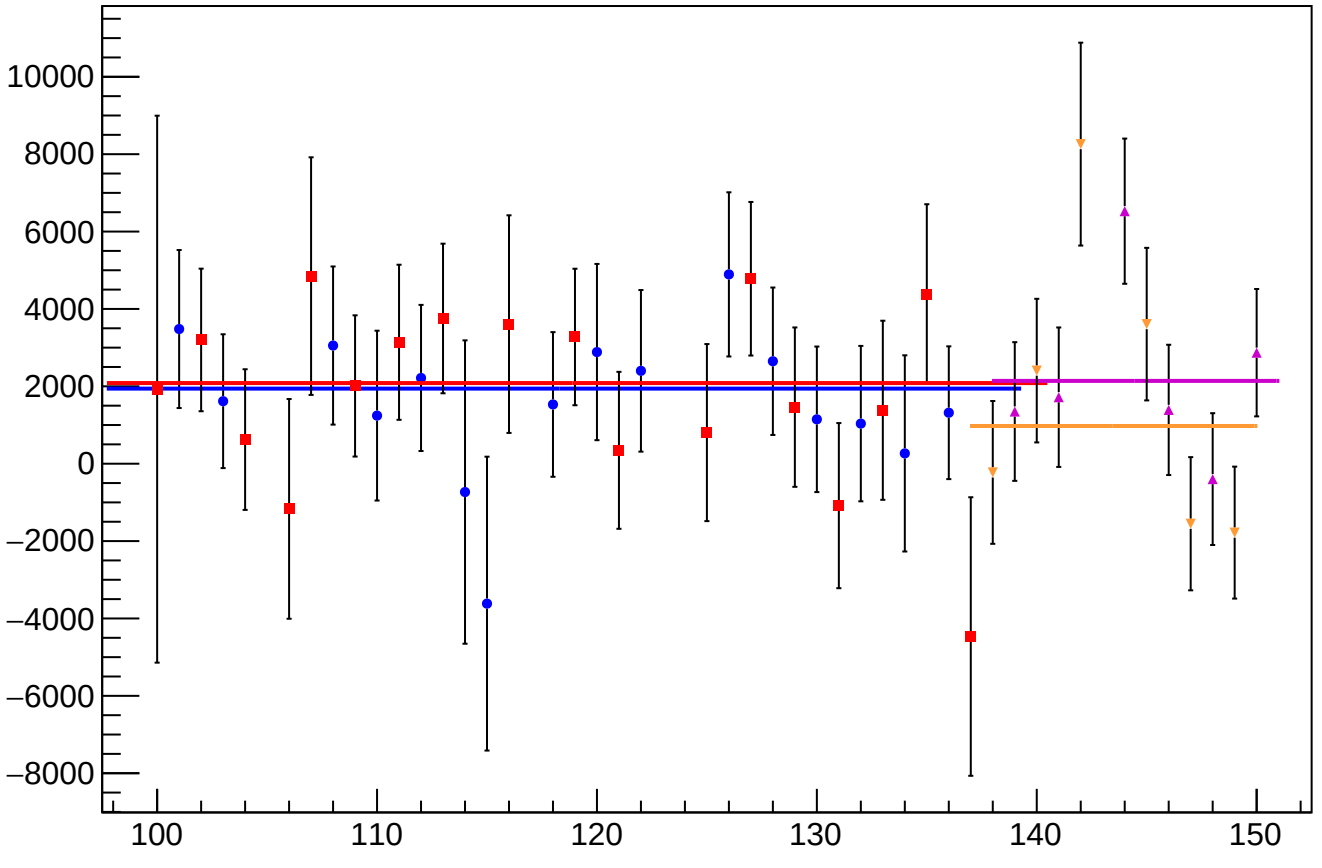
Left: 4788.568+/-1.092 $\chi^2$/NDF: 267821.9/11

Right: 3018.883+/-0.599 $\chi^2$/NDF: 3294667.2/33

In: 3770.315+/-0.781 $\chi^2$/NDF:1554667.6/21

Out: 3146.122+/-0.710 $\chi^2$/NDF:3676686.1/23

All: 3428.376+/-0.525 $\chi^2$/NDF: 5581140.6/45




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 974.646+/-774.251 $\chi^2$/NDF:15.3/5

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 2140.274+/-712.523 $\chi^2$/NDF:8.3/5

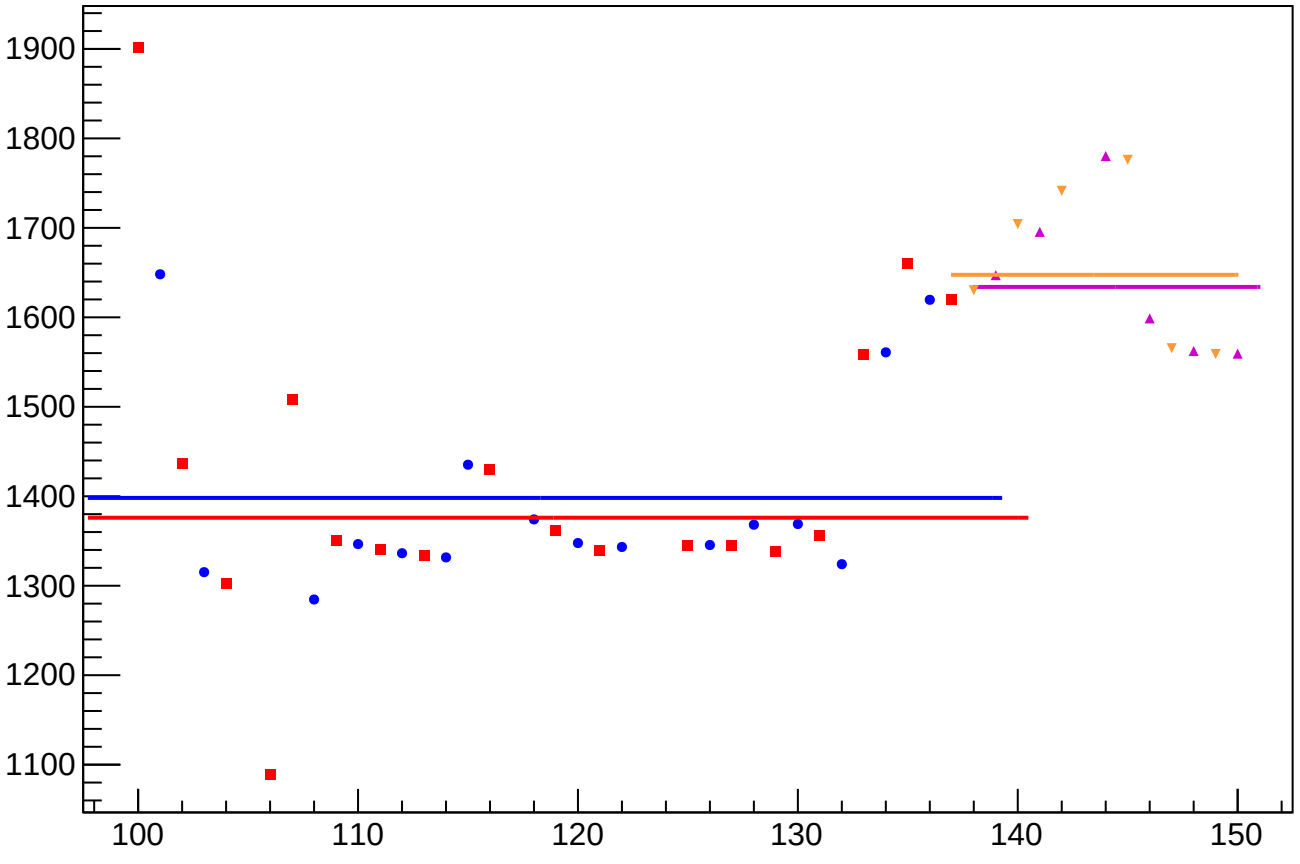
Left: 1605.771+/-524.296 $\chi^2$/NDF: 24.8/11

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2010.649+/-421.180 $\chi^2$/NDF:15.3/21

Out: 1739.646+/-431.441 $\chi^2$/NDF:31.2/23

All: 1878.408+/-301.382 $\chi^2$/NDF: 46.7/45




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1647.516+/-0.547 $\chi^2$/NDF:23049.8/5

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1633.984+/-0.504 $\chi^2$/NDF:23112.5/5

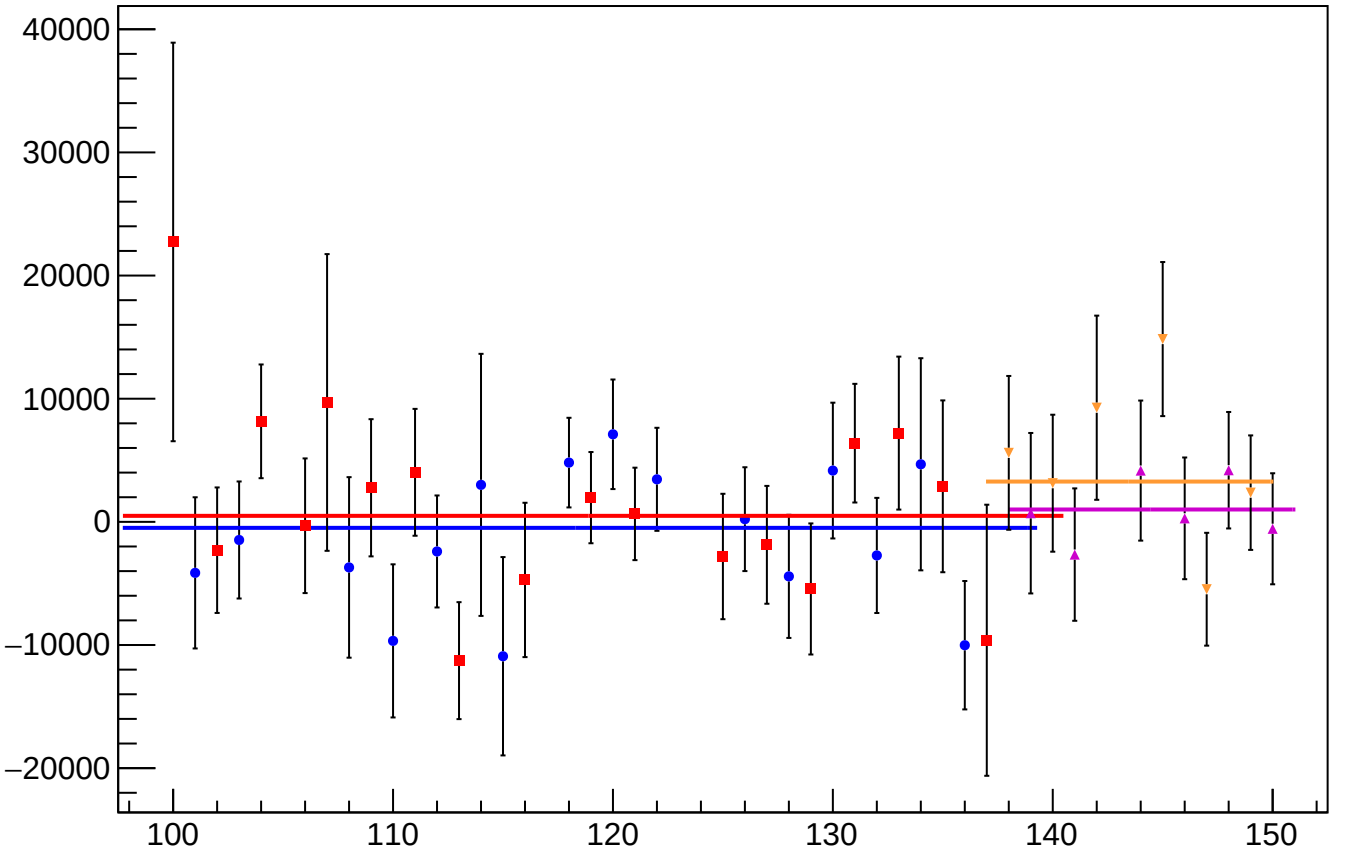
Left: 1640.189+/-0.371 $\chi^2$/NDF: 46493.0/11

Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1480.560+/-0.298 $\chi^2$/NDF:259568.2/21

Out: 1458.776+/-0.302 $\chi^2$/NDF:308042.3/23

All: 1469.830+/-0.212 $\chi^2$/NDF: 570246.1/45




Right In: -486.563+/-1294.930 $\chi^2$/NDF: 15.9/15

Left Out: 3272.367+/-2262.569 $\chi^2$/NDF:7.9/5

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 1004.101+/-2113.037 $\chi^2$/NDF:1.4/5

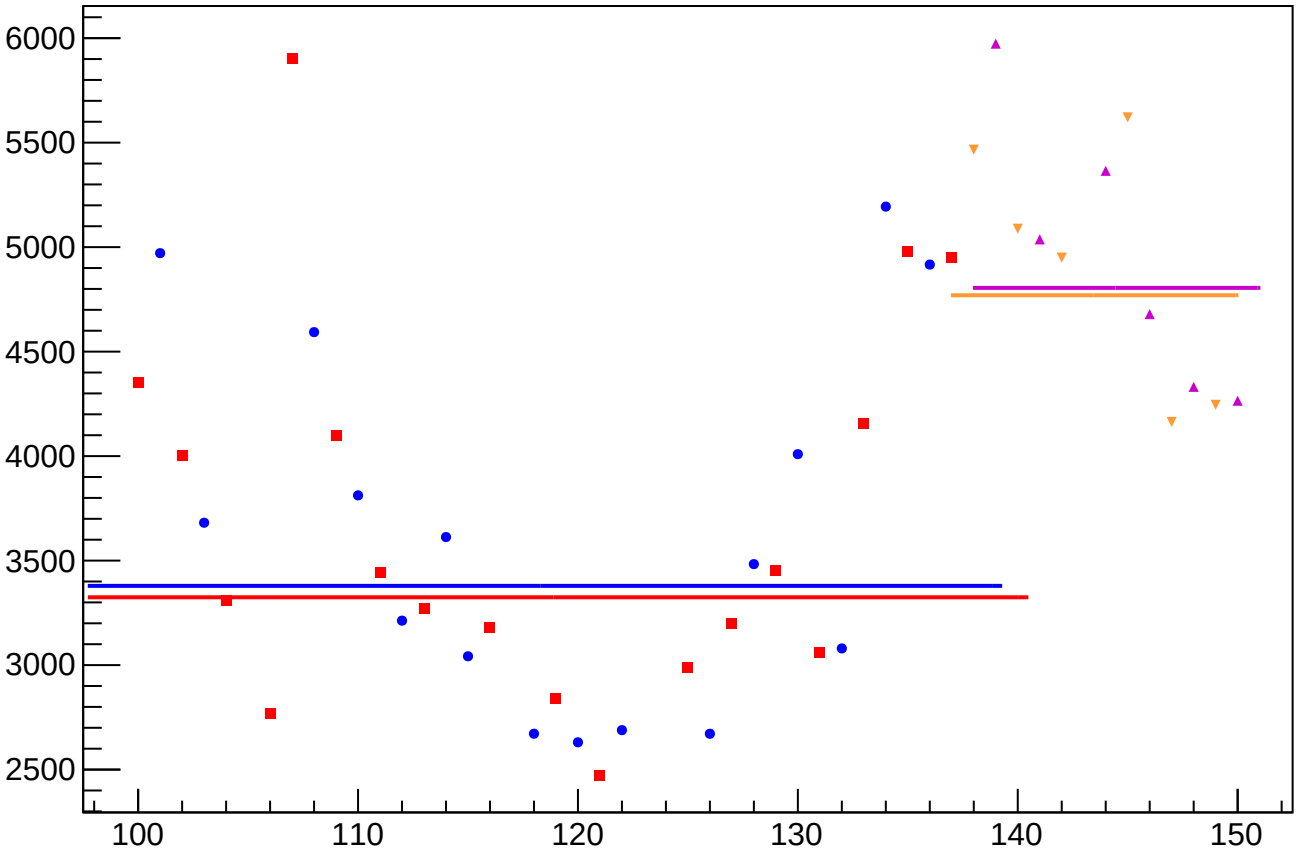
Left: 2060.809+/-1544.302 $\chi^2$/NDF: 9.8/11

Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -79.577+/-1104.096 $\chi^2$/NDF:17.7/21

Out: 1148.603+/-1101.691 $\chi^2$/NDF:27.8/23

All: 535.852+/-779.862 $\chi^2$/NDF: 46.1/45




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 4769.664+/-1.600 $\chi^2$/NDF:130030.9/5

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 4805.051+/-1.494 $\chi^2$/NDF:137529.7/5

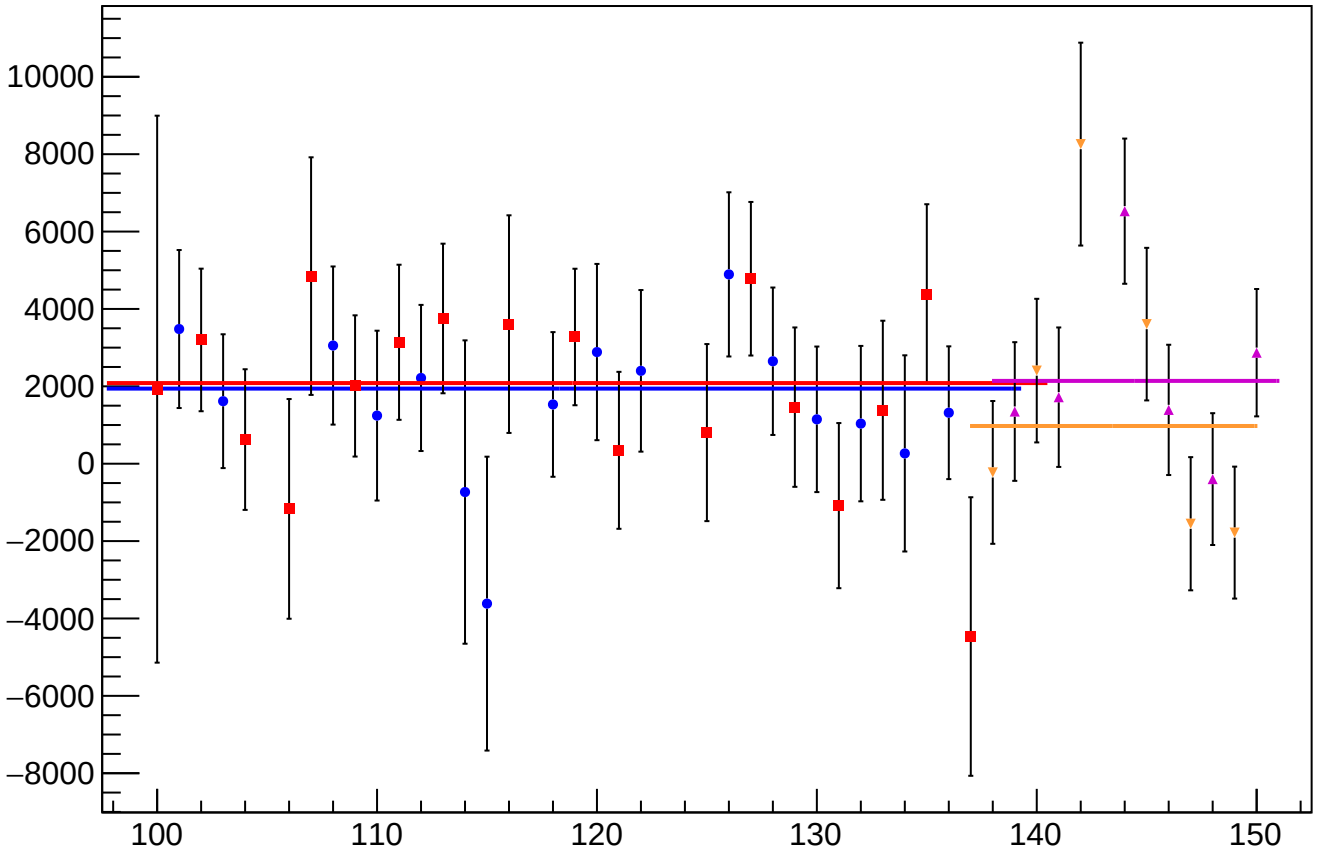
Left: 4788.566+/-1.092 $\chi^2$/NDF: 267822.0/11

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 3768.425+/-0.781 $\chi^2$/NDF:1554993.8/21

Out: 3667.098+/-0.779 $\chi^2$/NDF:1296379.2/23

All: 3717.651+/-0.551 $\chi^2$/NDF: 2859813.9/45




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 974.646+/-774.251 $\chi^2$/NDF:15.3/5

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 2140.274+/-712.523 $\chi^2$/NDF:8.3/5

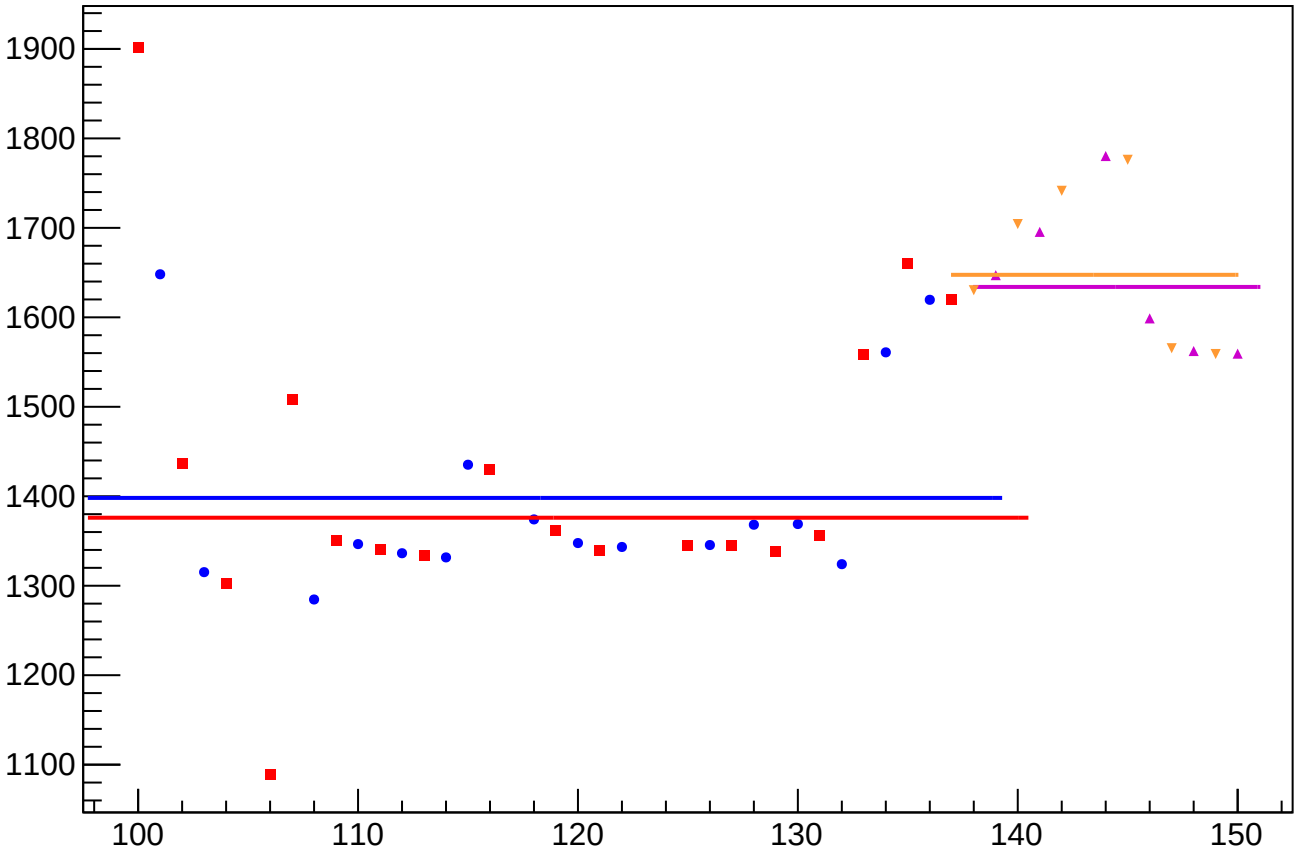
Left: 1605.771+/-524.296 $\chi^2$/NDF: 24.8/11

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2010.649+/-421.180 $\chi^2$/NDF:15.3/21

Out: 1739.646+/-431.441 $\chi^2$/NDF:31.2/23

All: 1878.408+/-301.382 $\chi^2$/NDF: 46.7/45




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1647.516+/-0.547 $\chi^2$/NDF:23049.8/5

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1633.984+/-0.504 $\chi^2$/NDF:23112.5/5

Left: 1640.189+/-0.371 $\chi^2$/NDF: 46493.0/11

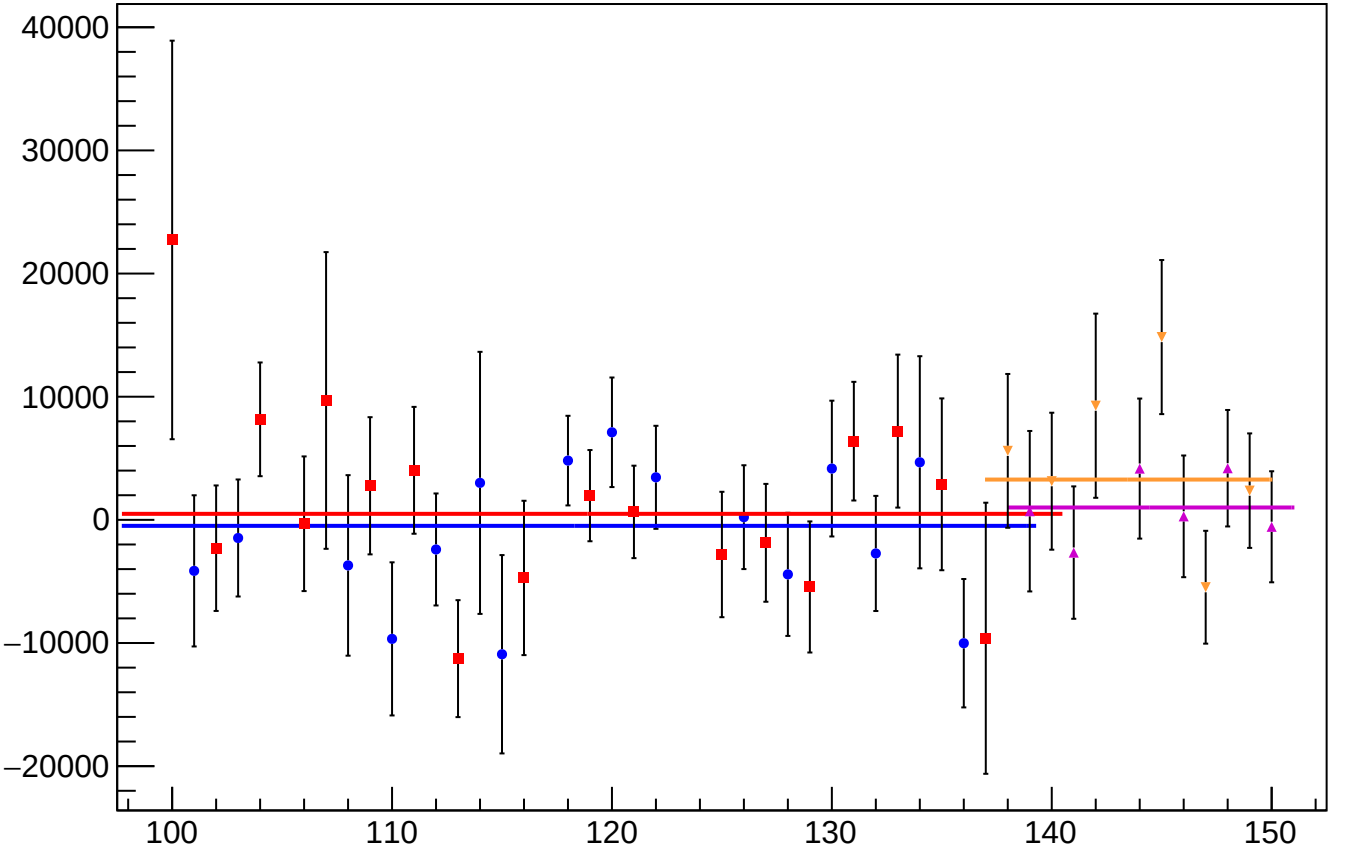
Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1480.560+/-0.298 $\chi^2$/NDF:259568.2/21

Out: 1458.776+/-0.302 $\chi^2$/NDF:308042.3/23

All: 1469.830+/-0.212 $\chi^2$/NDF: 570246.1/45

asym_usl_atl2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -486.563+/-1294.930 $\chi^2$/NDF: 15.9/15

Left Out: 3272.367+/-2262.569 $\chi^2$/NDF:7.9/5

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 1004.101+/-2113.037 $\chi^2$/NDF:1.4/5

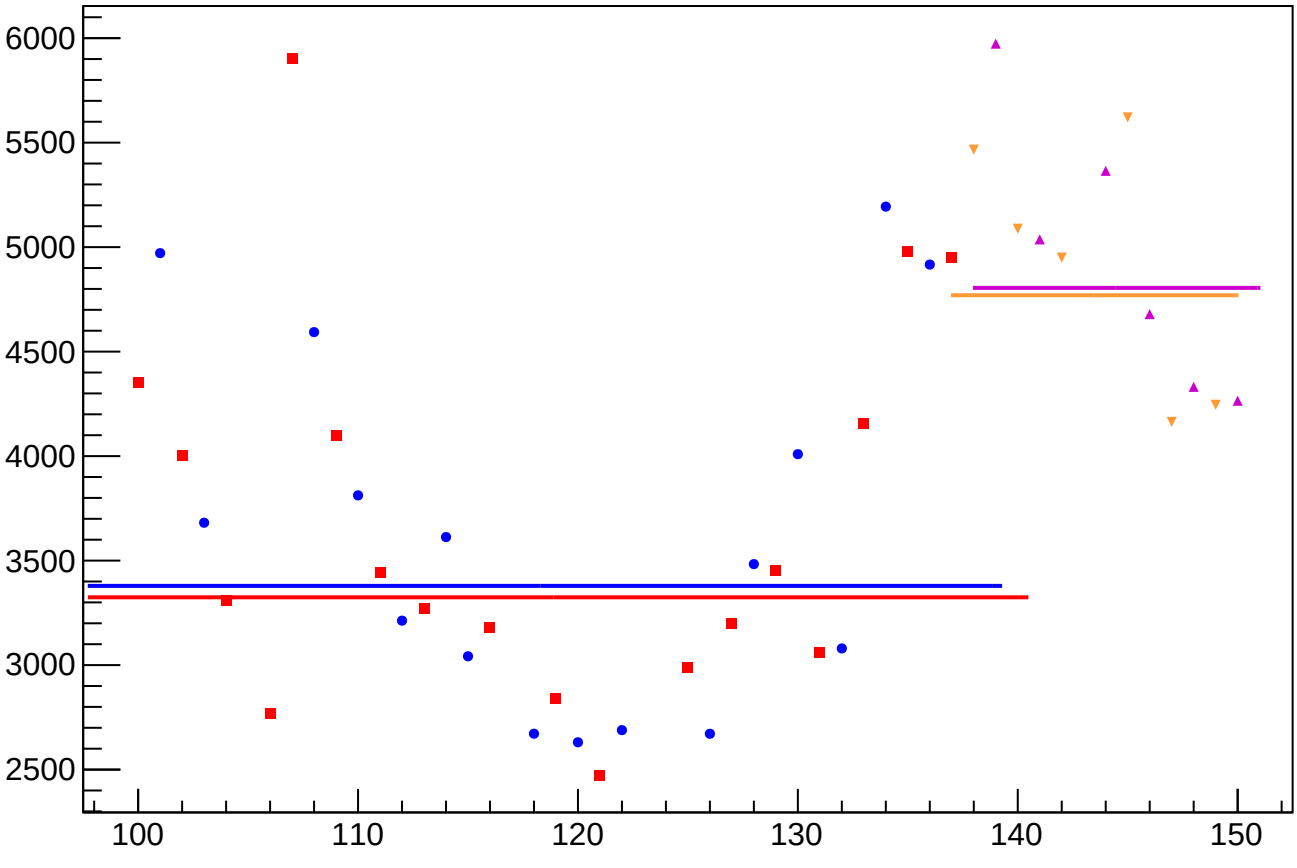
Left: 2060.809+/-1544.302 $\chi^2$/NDF: 9.8/11

Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -79.577+/-1104.096 $\chi^2$/NDF:17.7/21

Out: 1148.603+/-1101.691 $\chi^2$/NDF:27.8/23

All: 535.852+/-779.862 $\chi^2$/NDF: 46.1/45




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 4769.664+/-1.600 $\chi^2$/NDF:130030.9/5

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 4805.051+/-1.494 $\chi^2$/NDF:137529.7/5

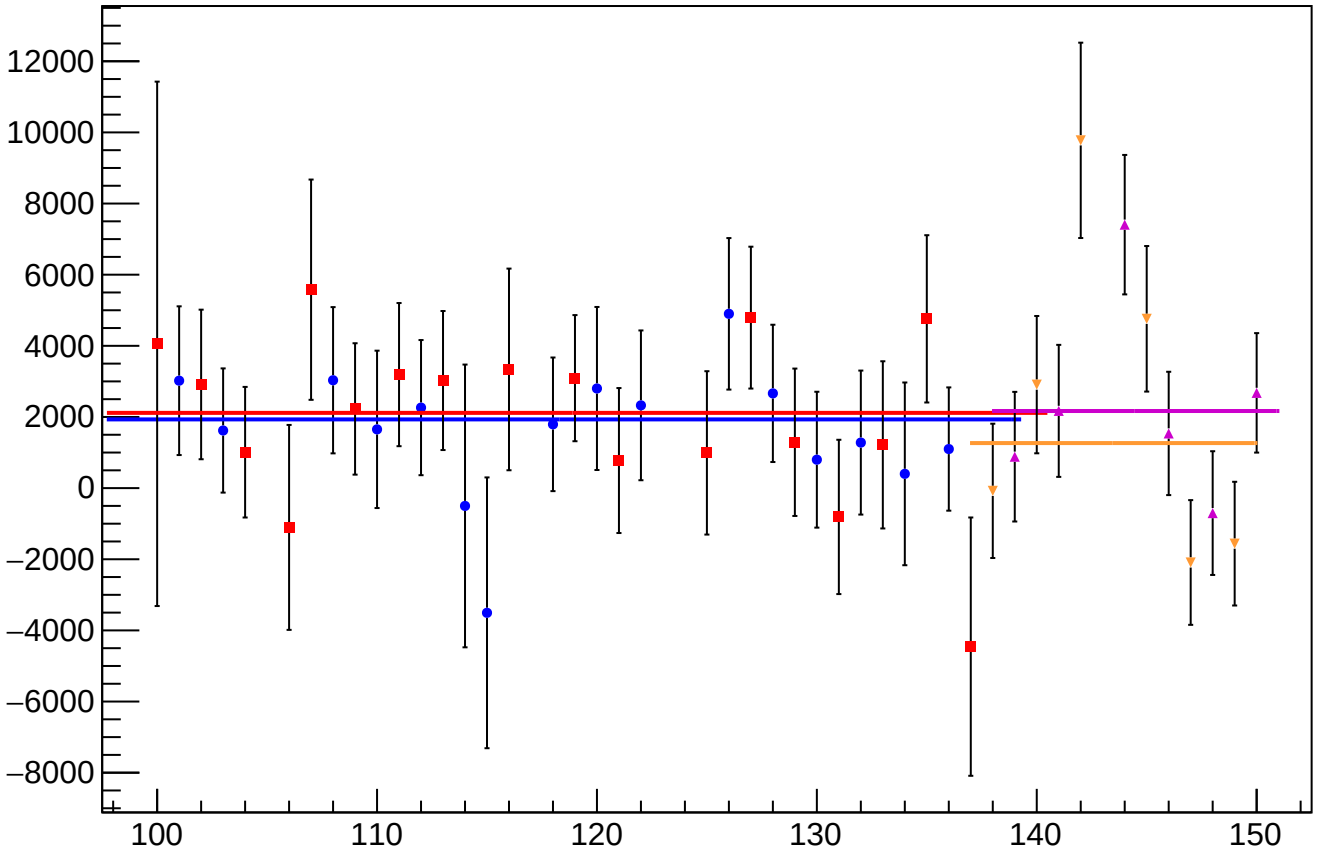
Left: 4788.566+/-1.092 $\chi^2$/NDF: 267822.0/11

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 3768.425+/-0.781 $\chi^2$/NDF:1554993.8/21

Out: 3667.098+/-0.779 $\chi^2$/NDF:1296379.2/23

All: 3717.651+/-0.551 $\chi^2$/NDF: 2859813.9/45




Right In: 1931.537+/-527.135 $\chi^2$/NDF: 6.4/15

Left Out: 1266.223+/-796.407 $\chi^2$/NDF:20.1/5

Right Out: 2115.195+/-528.802 $\chi^2$/NDF: 13.2/17

Left In: 2167.584+/-731.308 $\chi^2$/NDF:10.6/5

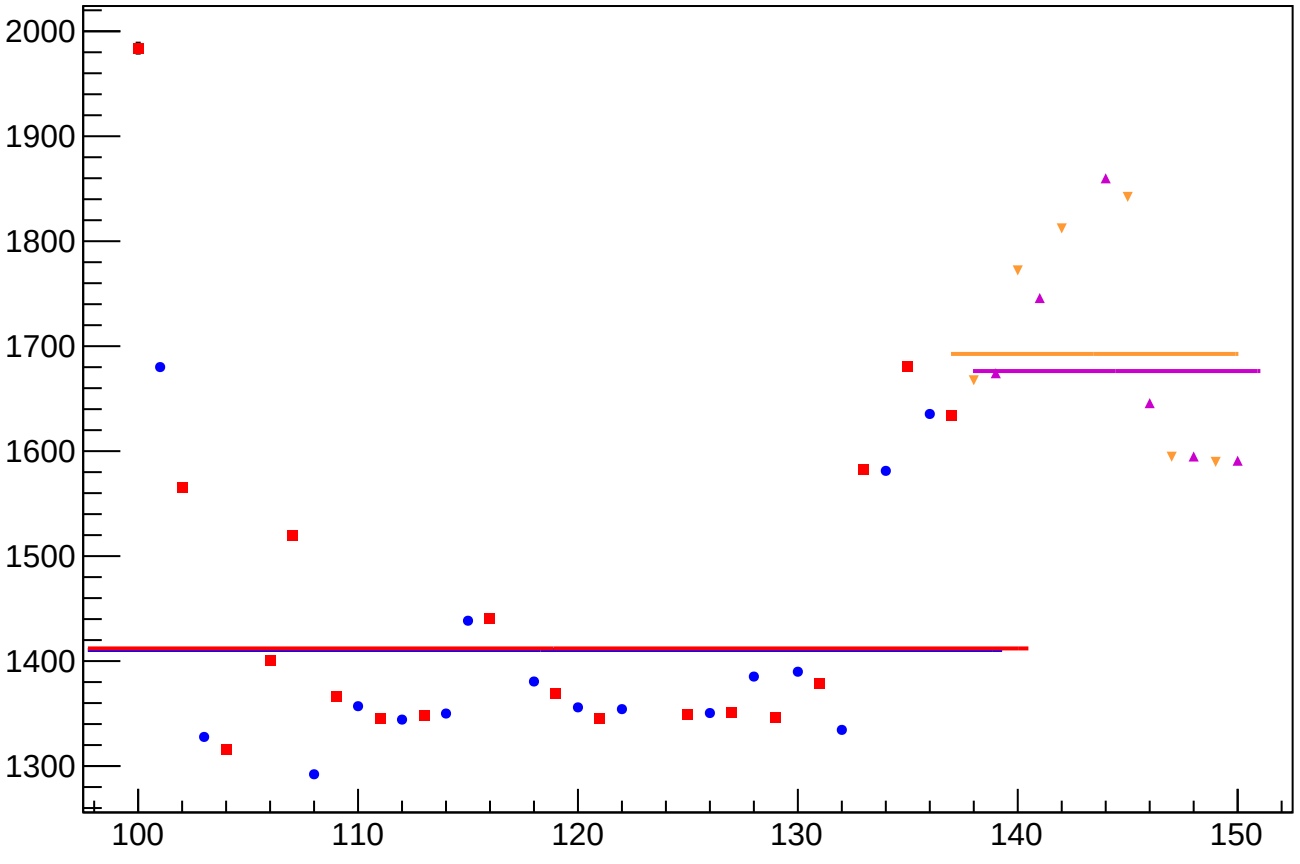
Left: 1755.243+/-538.659 $\chi^2$/NDF: 31.3/11

Right: 2023.076+/-373.329 $\chi^2$/NDF: 19.6/33

In: 2012.246+/-427.624 $\chi^2$/NDF:17.0/21

Out: 1855.428+/-440.535 $\chi^2$/NDF:34.1/23

All: 1936.168+/-306.839 $\chi^2$/NDF: 51.1/45




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1692.630+/-0.563 $\chi^2$/NDF:31474.6/5

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.5/17

Left In: 1676.305+/-0.517 $\chi^2$/NDF:30536.6/5

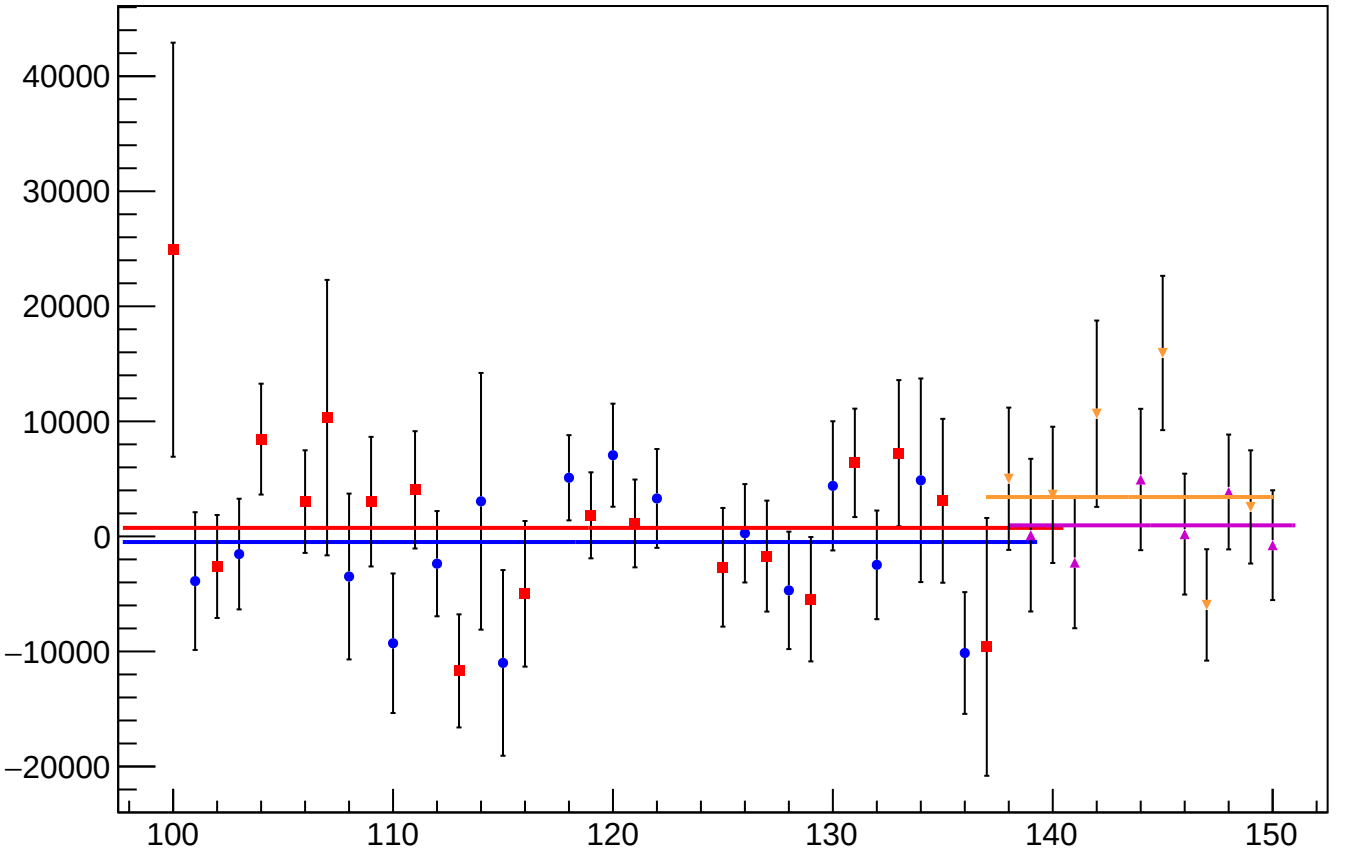
Left: 1683.773+/-0.381 $\chi^2$/NDF: 62467.1/11

Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.1/33

In: 1501.446+/-0.302 $\chi^2$/NDF:303435.7/21

Out: 1497.582+/-0.311 $\chi^2$/NDF:293747.4/23

All: 1499.568+/-0.217 $\chi^2$/NDF: 597262.5/45




Right In: -489.402+/-1308.692 $\chi^2$/NDF: 15.8/15

Left Out: 3421.714+/-2382.662 $\chi^2$/NDF:8.1/5

Right Out: 740.592+/-1247.947 $\chi^2$/NDF: 19.2/17

Left In: 961.544+/-2235.200 $\chi^2$/NDF:1.2/5

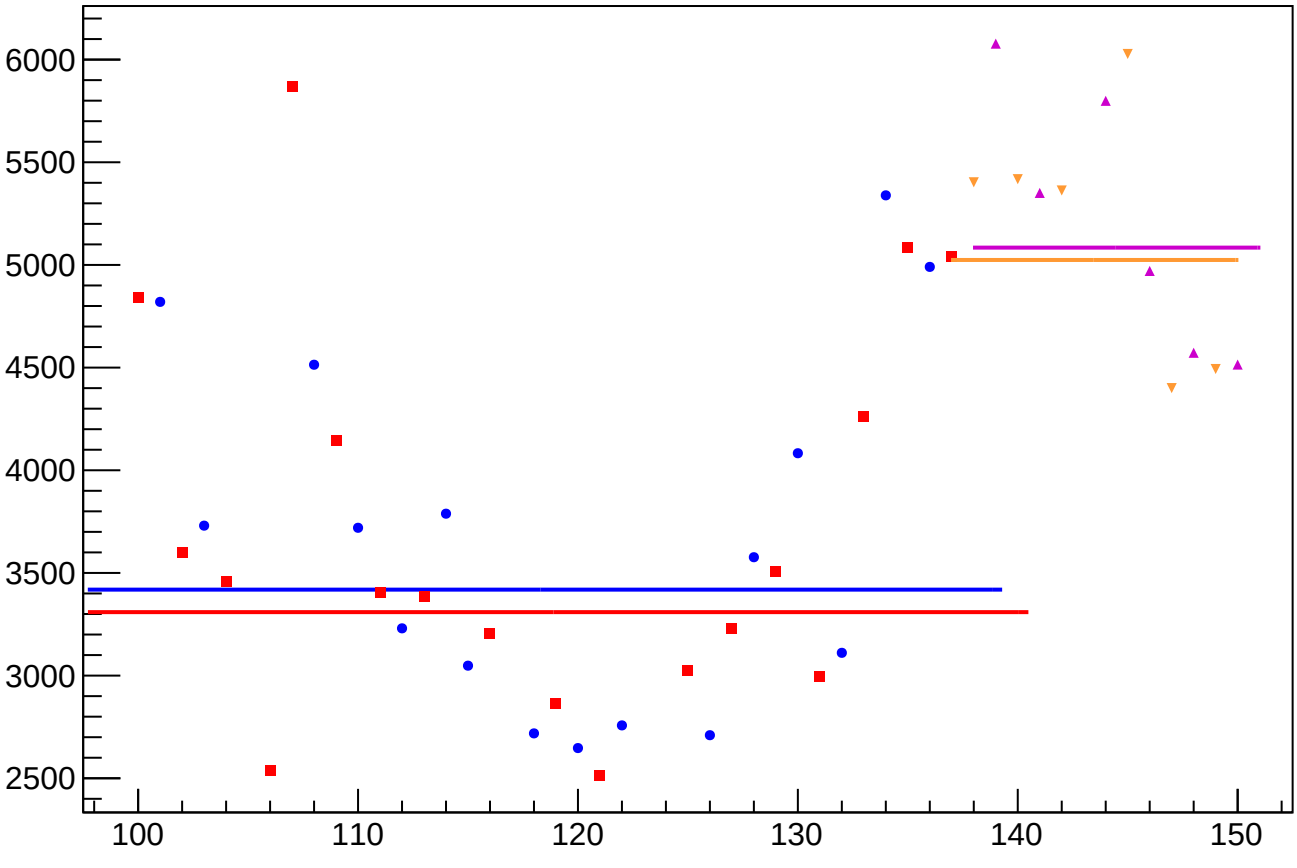
Left: 2113.149+/-1630.165 $\chi^2$/NDF: 9.9/11

Right: 154.802+/-903.143 $\chi^2$/NDF: 35.5/33

In: -118.993+/-1129.358 $\chi^2$/NDF:17.4/21

Out: 1317.762+/-1105.493 $\chi^2$/NDF:28.3/23

All: 614.725+/-790.004 $\chi^2$/NDF: 46.5/45




Right In: 3418.701+/-0.925 $\chi^2$/NDF: 721215.3/15

Left Out: 5024.173+/-1.685 $\chi^2$/NDF:121105.1/5

Right Out: 3309.112+/-0.882 $\chi^2$/NDF: 571940.6/17

Left In: 5084.314+/-1.581 $\chi^2$/NDF:126718.6/5

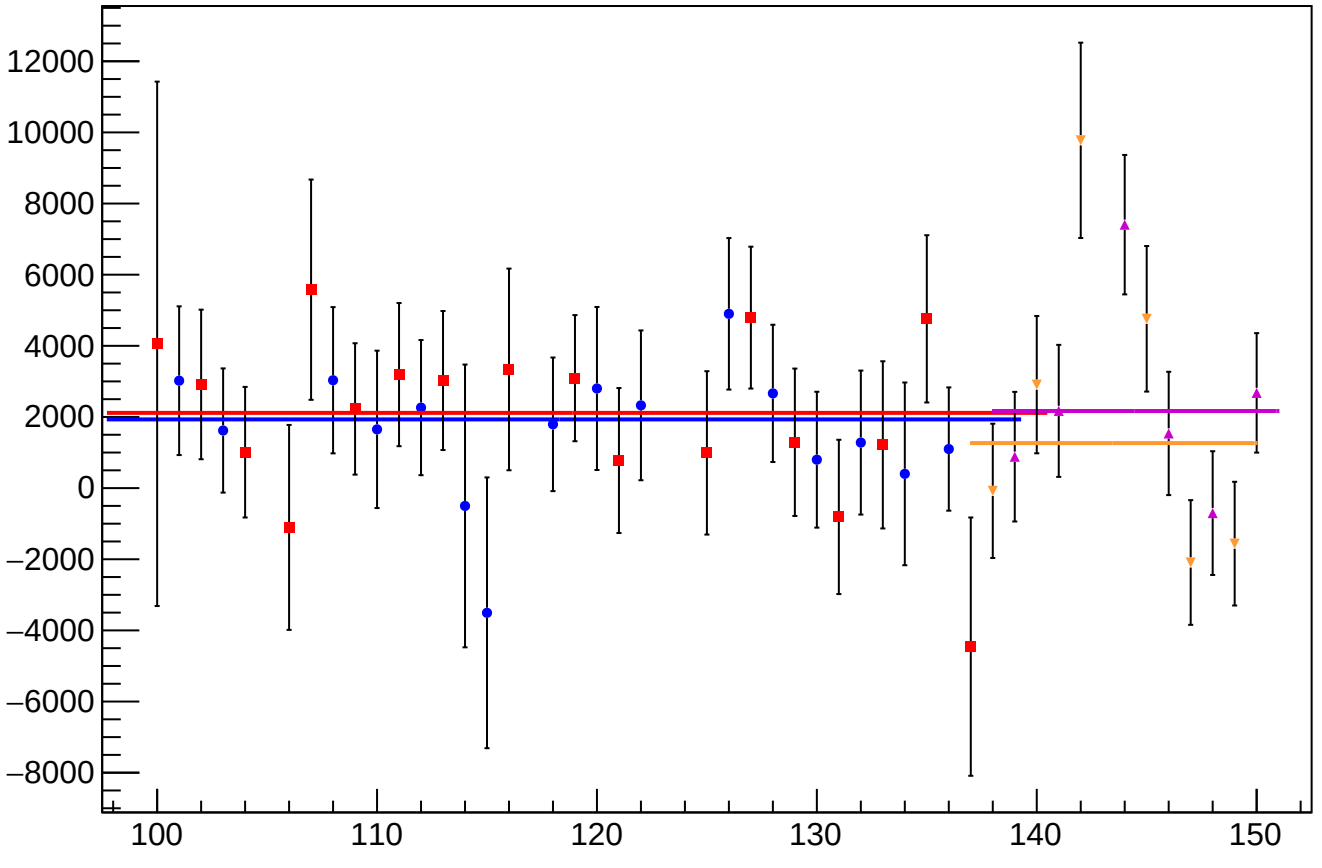
Left: 5056.162+/-1.153 $\chi^2$/NDF: 248501.4/11

Right: 3361.304+/-0.639 $\chi^2$/NDF: 1300501.2/33

In: 3843.912+/-0.799 $\chi^2$/NDF:1674987.8/21

Out: 3678.316+/-0.782 $\chi^2$/NDF:1506220.2/23

All: 3759.346+/-0.559 $\chi^2$/NDF: 3203166.8/45




Right In: 1931.538+/-527.135 $\chi^2$/NDF: 6.4/15

Left Out: 1266.229+/-796.407 $\chi^2$/NDF:20.1/5

Right Out: 2115.195+/-528.802 $\chi^2$/NDF: 13.2/17

Left In: 2167.586+/-731.308 $\chi^2$/NDF:10.6/5

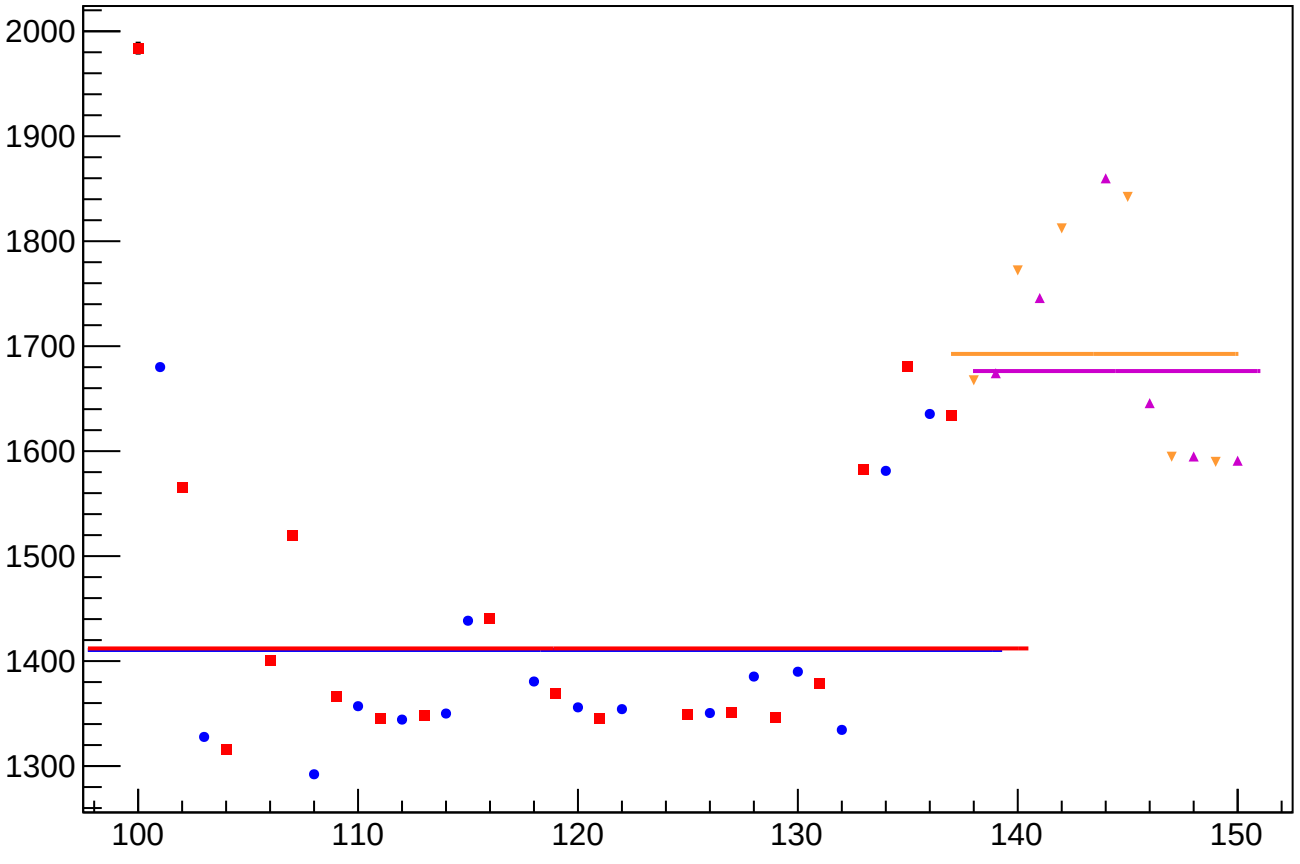
Left: 1755.247+/-538.659 $\chi^2$/NDF: 31.3/11

Right: 2023.076+/-373.329 $\chi^2$/NDF: 19.6/33

In: 2012.247+/-427.624 $\chi^2$/NDF:17.0/21

Out: 1855.430+/-440.535 $\chi^2$/NDF:34.1/23

All: 1936.170+/-306.839 $\chi^2$/NDF: 51.1/45




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1692.631+/-0.563 $\chi^2$/NDF:31475.3/5

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.6/17

Left In: 1676.306+/-0.517 $\chi^2$/NDF:30537.0/5

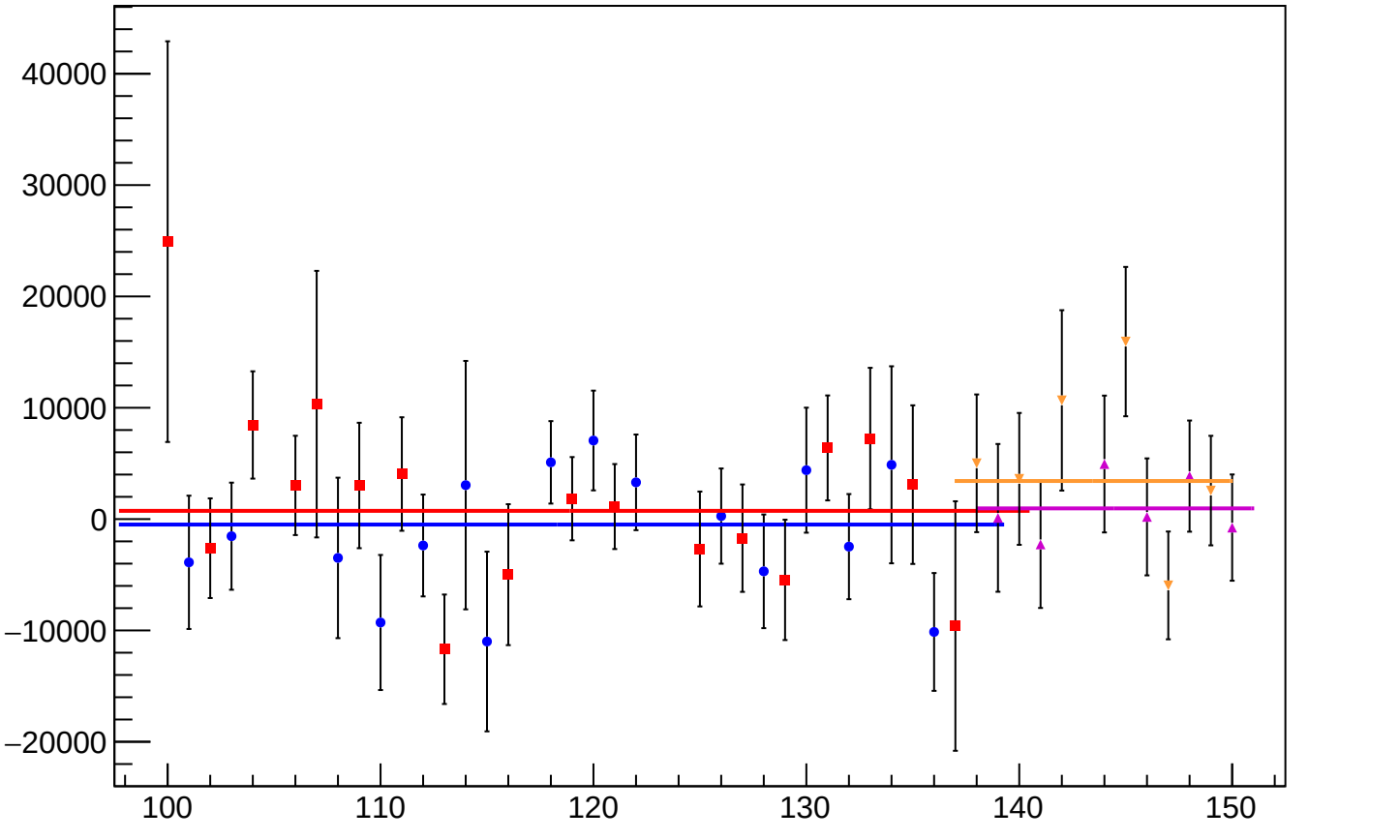
Left: 1683.774+/-0.381 $\chi^2$/NDF: 62468.3/11

Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.2/33

In: 1501.447+/-0.302 $\chi^2$/NDF:303437.3/21

Out: 1497.582+/-0.311 $\chi^2$/NDF:293749.5/23

All: 1499.568+/-0.217 $\chi^2$/NDF: 597266.2/45




Right In: -489.395+/-1308.688 $\chi^2$/NDF: 15.8/15

Left Out: 3421.711+/-2382.665 $\chi^2$/NDF:8.1/5

Right Out: 740.594+/-1247.944 $\chi^2$/NDF: 19.2/17

Left In: 961.546+/-2235.203 $\chi^2$/NDF:1.2/5

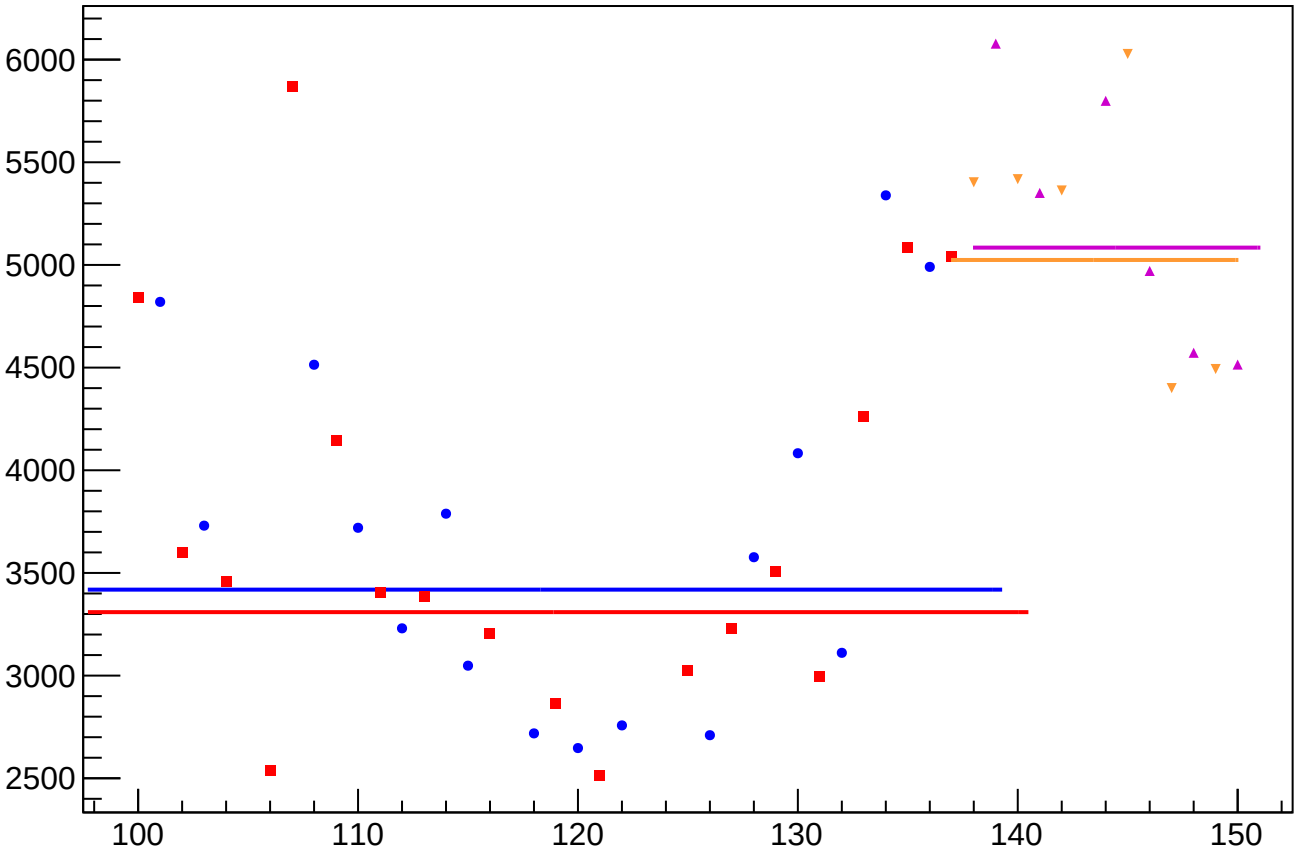
Left: 2113.149+/-1630.167 $\chi^2$/NDF: 9.9/11

Right: 154.807+/-903.141 $\chi^2$/NDF: 35.5/33

In: -118.990+/-1129.356 $\chi^2$/NDF:17.4/21

Out: 1317.759+/-1105.491 $\chi^2$/NDF:28.3/23

All: 614.726+/-790.002 $\chi^2$/NDF: 46.5/45




Right In: 3418.690+/-0.925 $\chi^2$/NDF: 721223.9/15

Left Out: 5024.180+/-1.685 $\chi^2$/NDF:121107.5/5

Right Out: 3309.102+/-0.882 $\chi^2$/NDF: 571944.5/17

Left In: 5084.320+/-1.581 $\chi^2$/NDF:126720.9/5

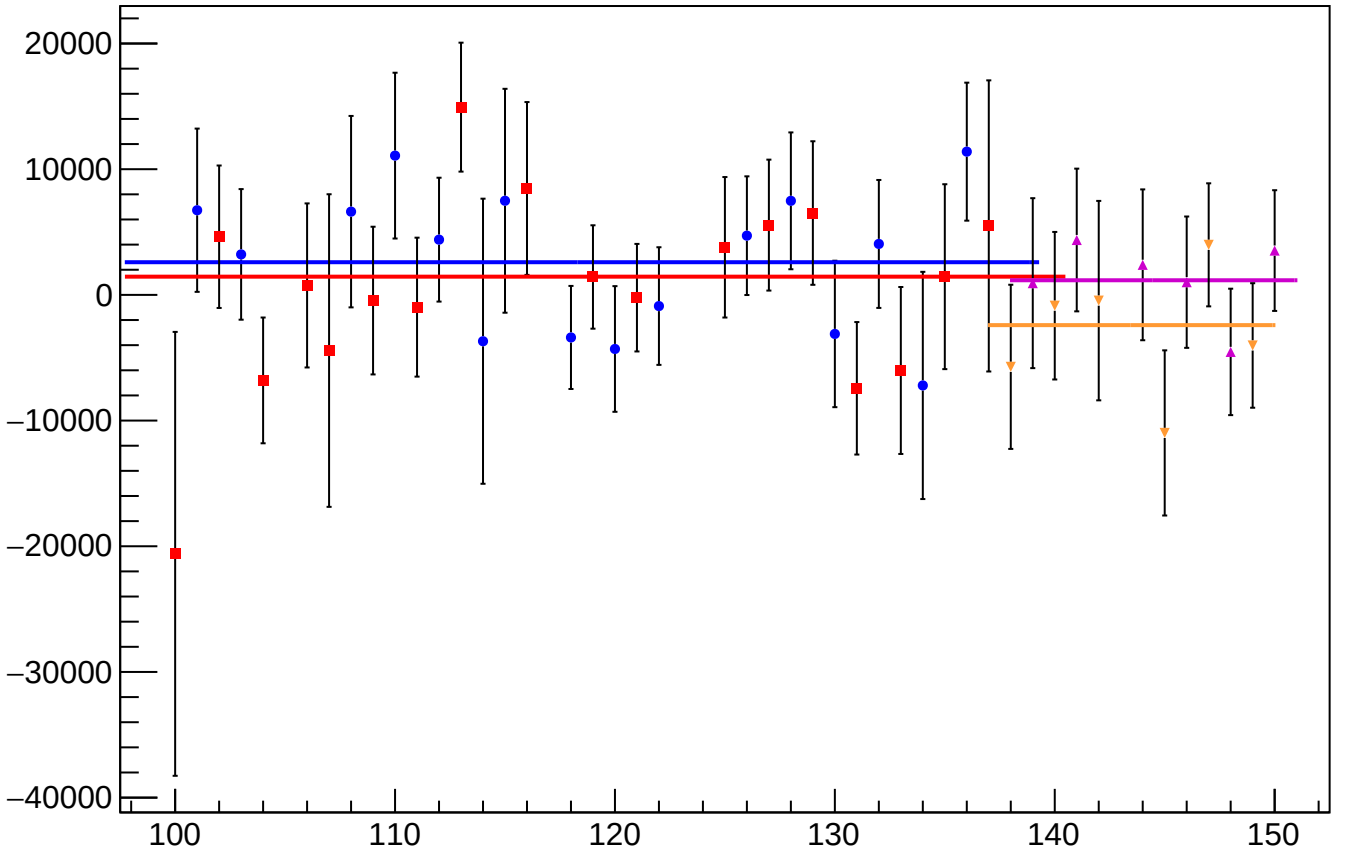
Left: 5056.168+/-1.153 $\chi^2$/NDF: 248506.1/11

Right: 3361.294+/-0.639 $\chi^2$/NDF: 1300513.6/33

In: 3843.902+/-0.799 $\chi^2$/NDF:1675015.2/21

Out: 3678.308+/-0.782 $\chi^2$/NDF:1506241.3/23

All: 3759.337+/-0.559 $\chi^2$/NDF: 3203215.2/45




Right In: 2599.622+/-1414.499 $\chi^2$/NDF: 13.5/15

Left Out: -2406.214+/-2397.278 $\chi^2$/NDF:3.9/5

Right Out: 1450.418+/-1382.818 $\chi^2$/NDF: 19.0/17

Left In: 1163.688+/-2234.911 $\chi^2$/NDF:1.9/5

Left: -496.285+/-1634.710 $\chi^2$/NDF: 7.0/11

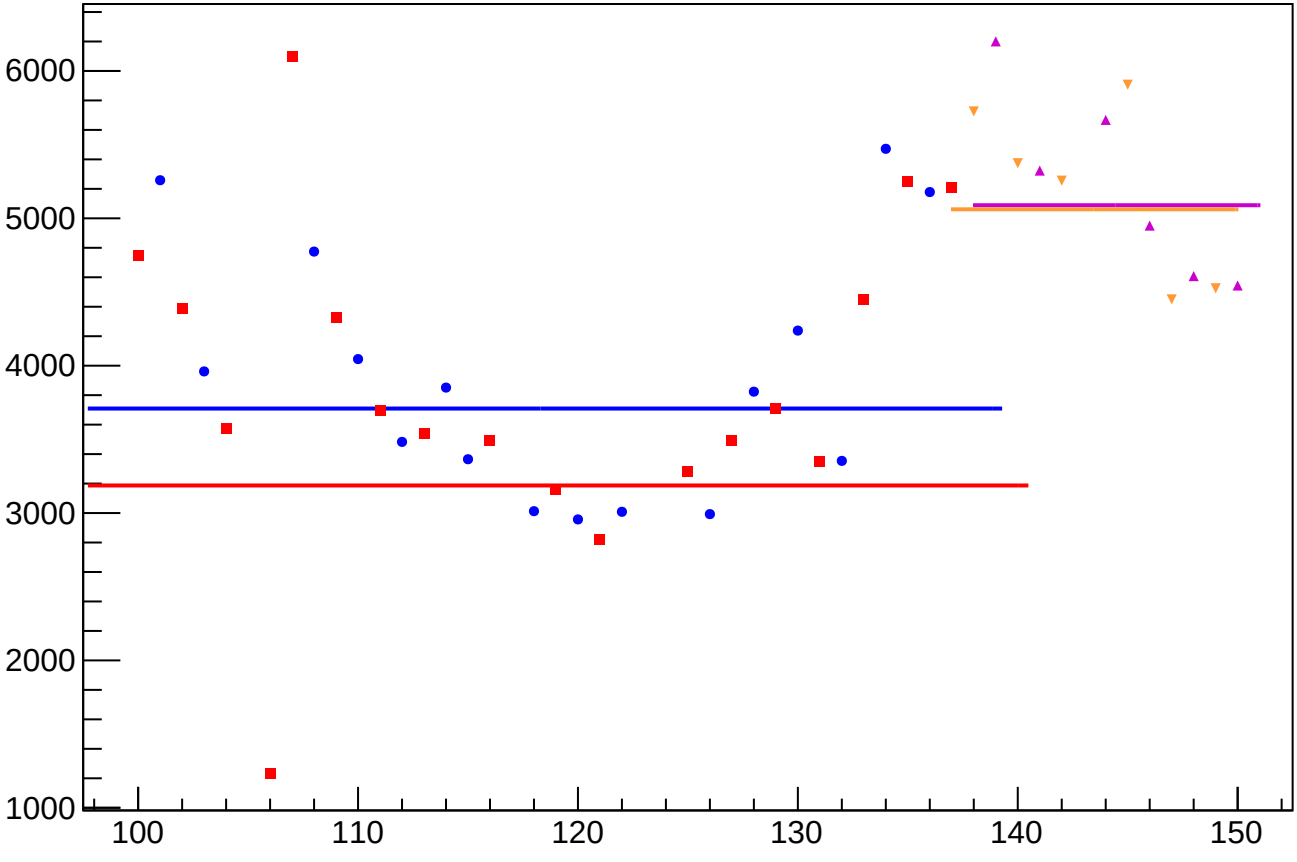
Right: 2012.006+/-988.811 $\chi^2$/NDF: 32.9/33

In: 2188.933+/-1195.224 $\chi^2$/NDF:15.7/21

Out: 487.567+/-1197.826 $\chi^2$/NDF:24.9/23

All: 1340.101+/-846.069 $\chi^2$/NDF: 41.6/45

# asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 3709.155+/-1.000 $\chi^2$/NDF: 610637.3/15

Left Out: 5061.127+/-1.695 $\chi^2$/NDF:115304.3/5

Right Out: 3187.191+/-0.896 $\chi^2$/NDF: 1610818.1/17

Left In: 5088.907+/-1.580 $\chi^2$/NDF:121579.5/5

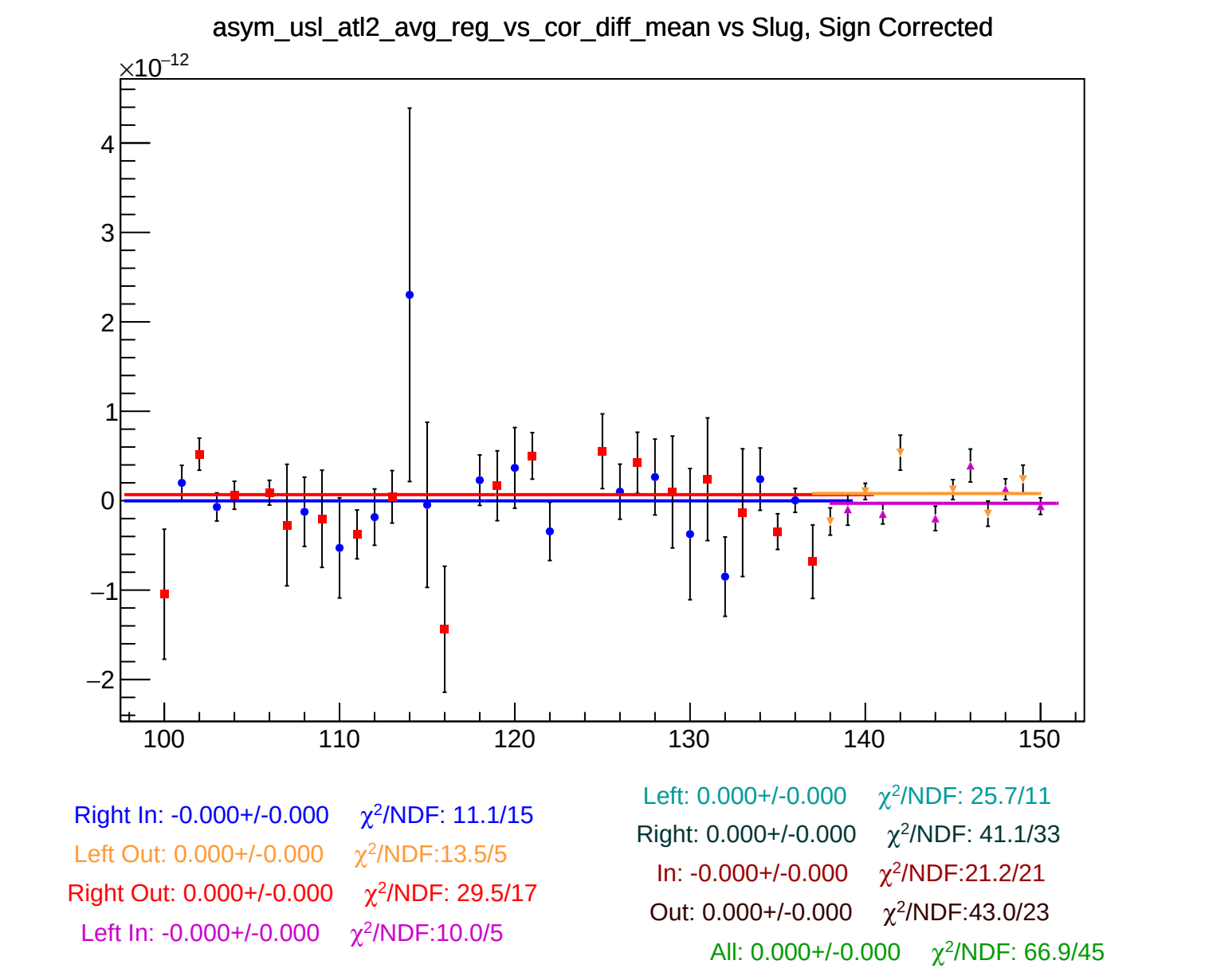
Left: 5075.989+/-1.156 $\chi^2$/NDF: 237027.5/11

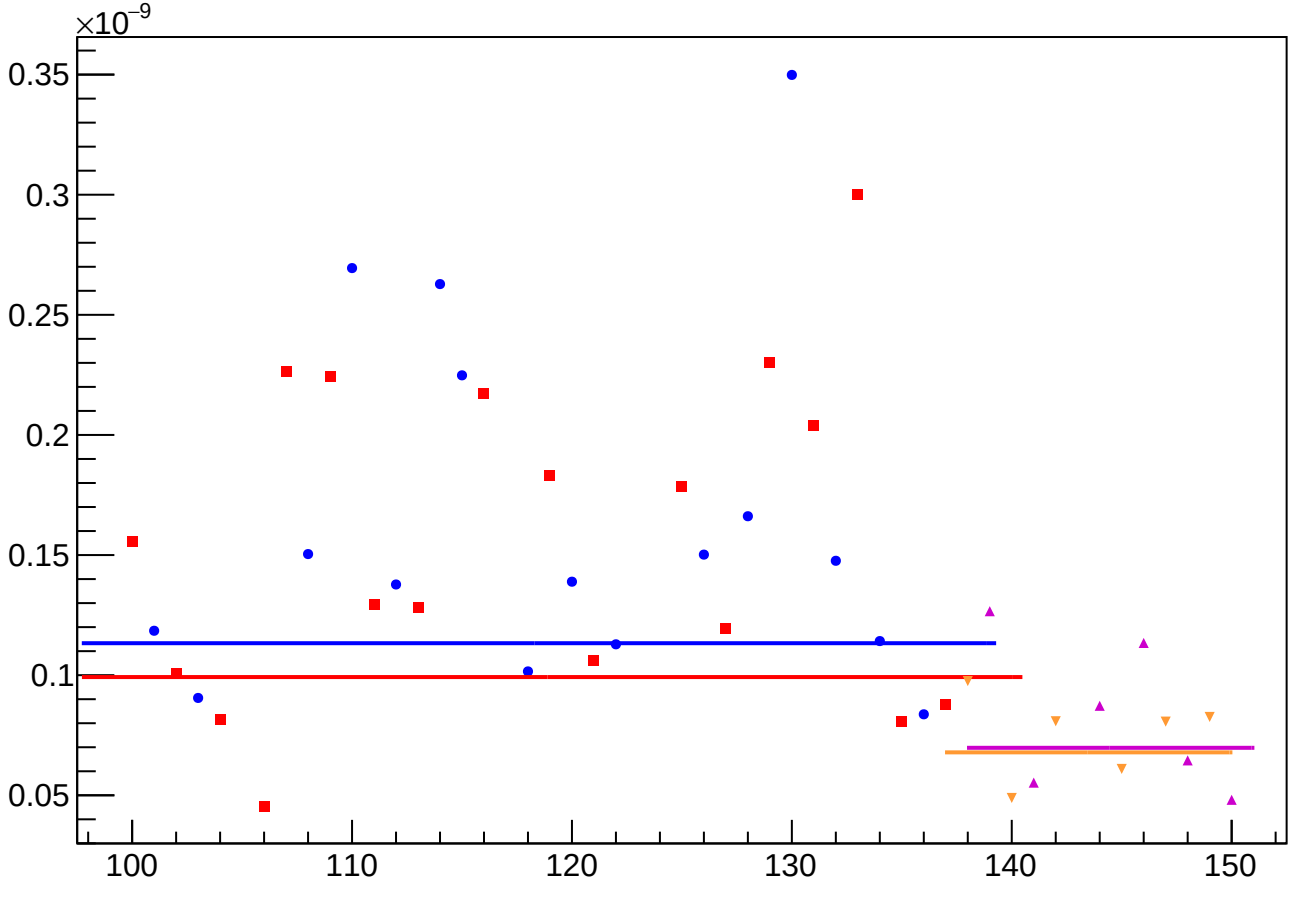
Right: 3419.452+/-0.667 $\chi^2$/NDF: 2372609.3/33

In: 4103.773+/-0.845 $\chi^2$/NDF:1276475.6/21

Out: 3596.106+/-0.792 $\chi^2$/NDF:2681536.4/23

All: 3833.427+/-0.578 $\chi^2$/NDF: 4150158.2/45


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 11.1/15
Left Out: 0.000+/-0.000 χ²/NDF:13.5/5
Right Out: 0.000+/-0.000 χ²/NDF: 29.5/17
Left In: -0.000+/-0.000 χ²/NDF:10.0/5
Left: 0.000+/-0.000 χ²/NDF: 25.7/11
Right: 0.000+/-0.000 χ²/NDF: 41.1/33
In: -0.000+/-0.000 χ²/NDF:21.2/21
Out: 0.000+/-0.000 χ²/NDF:43.0/23
All: 0.000+/-0.000 χ²/NDF: 66.9/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 655766.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:213132.9/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1100854.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:494741.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 709210.7/11

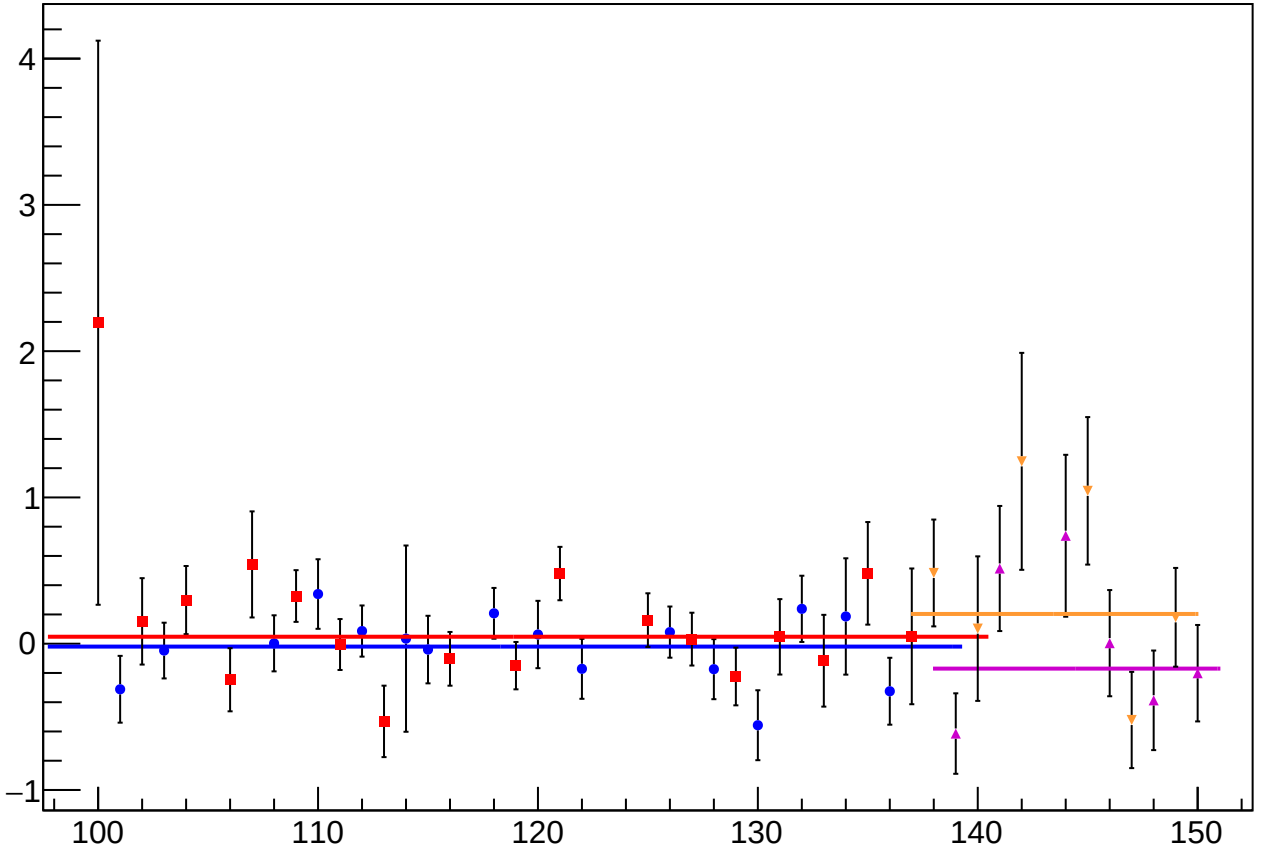
Right: 0.000+/-0.000 $\chi^2$/NDF: 1799459.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1651348.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:1591452.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 3255564.0/45

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: 0.203+/-0.168 $\chi^2$/NDF:10.3/5

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.170+/-0.145 $\chi^2$/NDF:8.5/5

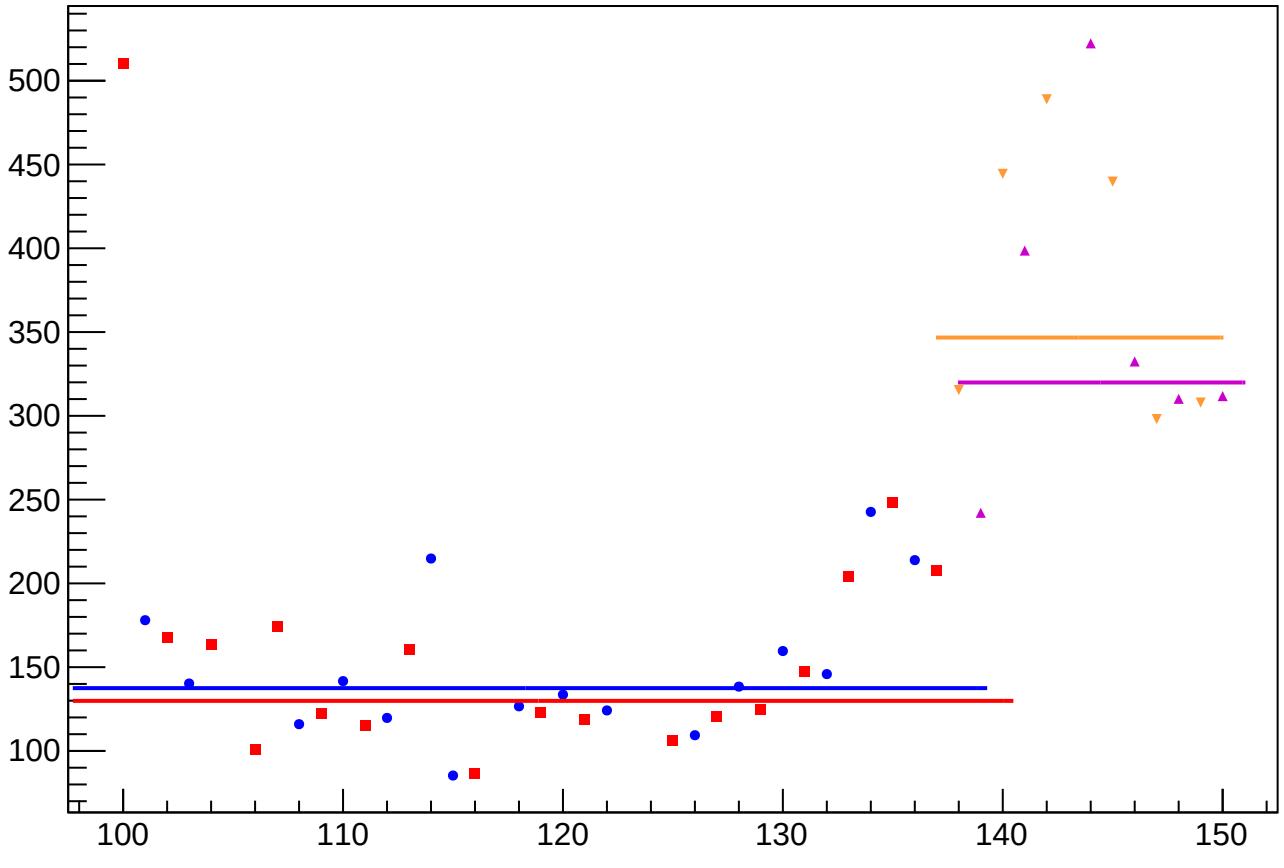
Left: -0.011+/-0.110 $\chi^2$/NDF: 21.6/11

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.038+/-0.051 $\chi^2$/NDF:25.5/21

Out: 0.062+/-0.050 $\chi^2$/NDF:37.3/23

All: 0.012+/-0.036 $\chi^2$/NDF: 64.7/45




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 346.719+/-0.119 $\chi^2$/NDF:304767.6/5

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 319.909+/-0.103 $\chi^2$/NDF:500376.3/5

Left: 331.369+/-0.078 $\chi^2$/NDF: 834249.6/11

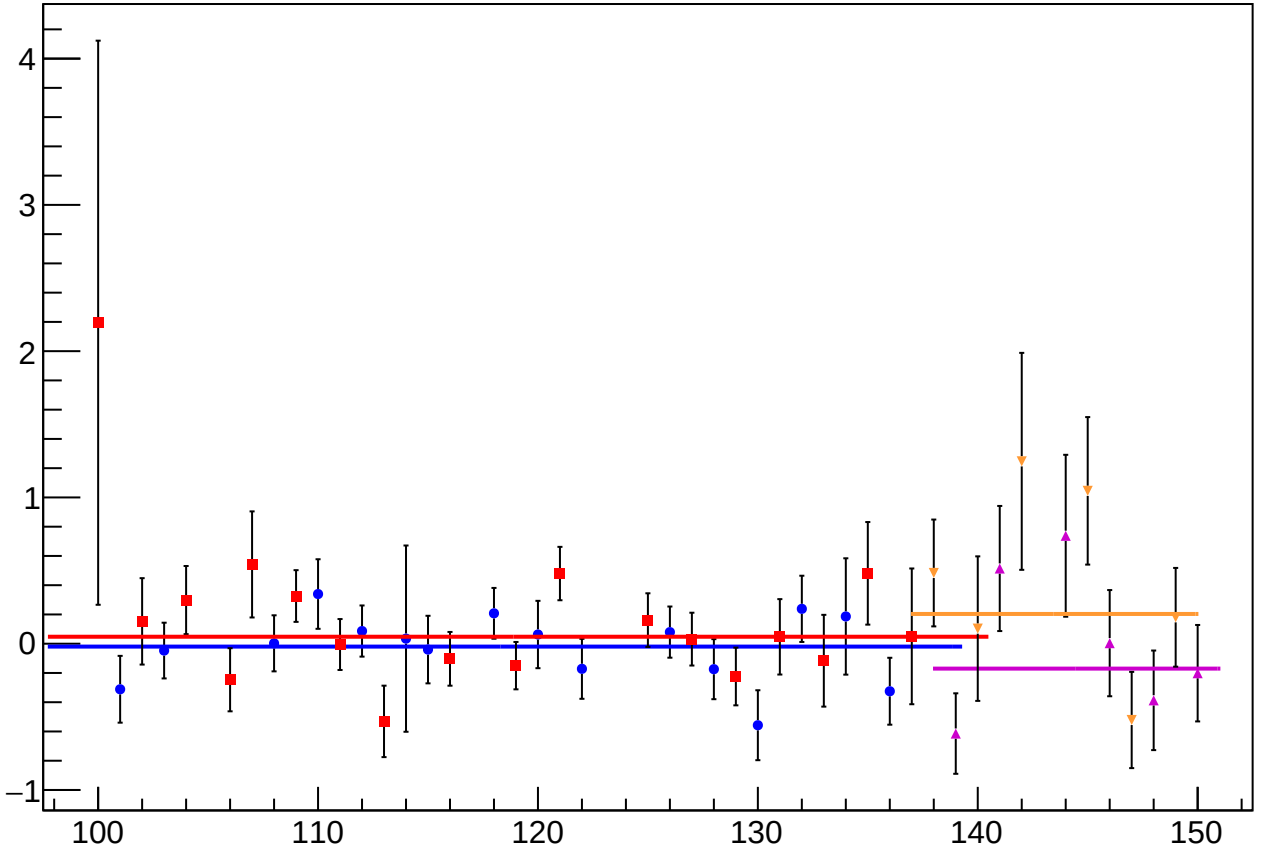
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

In: 159.778+/-0.036 $\chi^2$/NDF:3960406.0/21

Out: 149.141+/-0.035 $\chi^2$/NDF:4168803.1/23

All: 154.388+/-0.025 $\chi^2$/NDF: 8173659.7/45

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: 0.203+/-0.168 $\chi^2$/NDF:10.3/5

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.170+/-0.145 $\chi^2$/NDF:8.5/5

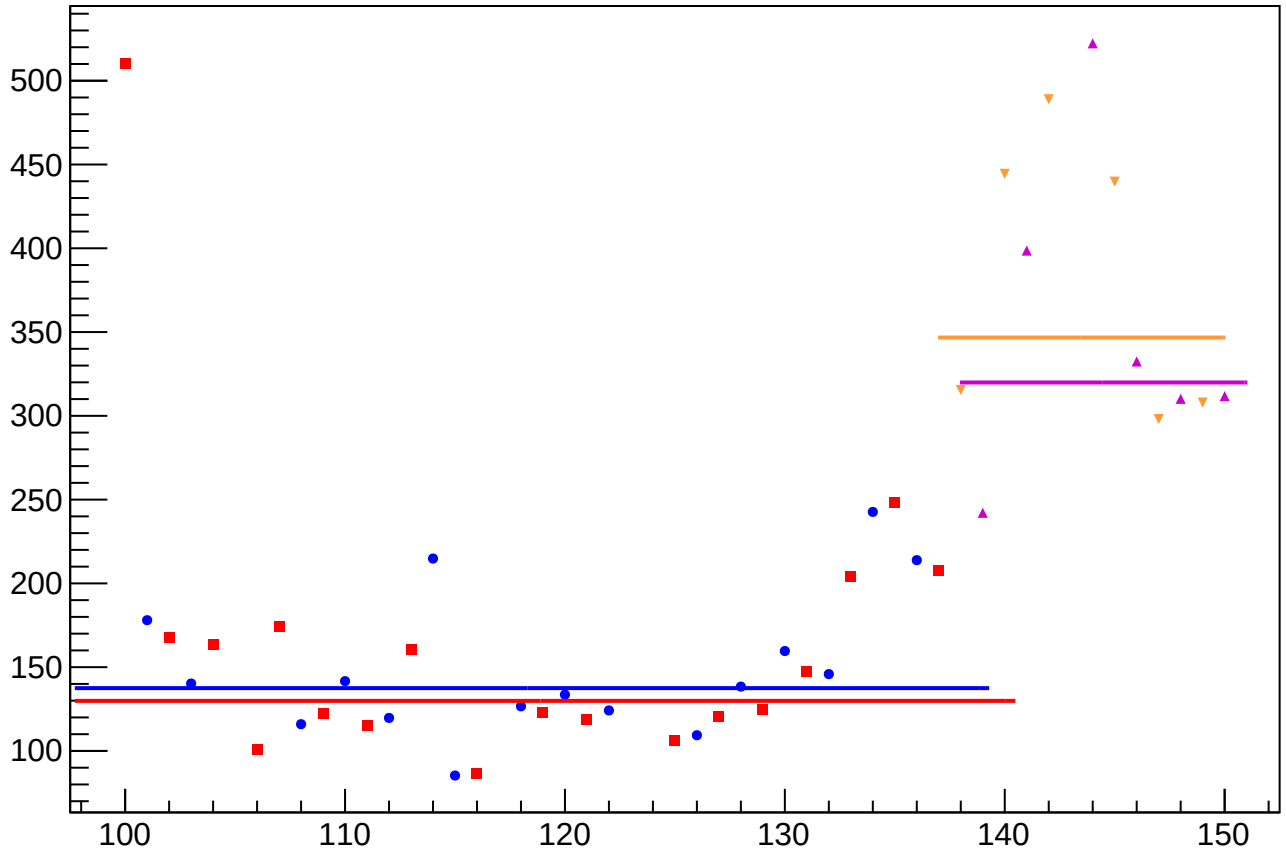
Left: -0.011+/-0.110 $\chi^2$/NDF: 21.6/11

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.038+/-0.051 $\chi^2$/NDF:25.5/21

Out: 0.062+/-0.050 $\chi^2$/NDF:37.3/23

All: 0.012+/-0.036 $\chi^2$/NDF: 64.7/45




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 346.719+/-0.119 $\chi^2$/NDF:304767.6/5

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 319.909+/-0.103 $\chi^2$/NDF:500376.3/5

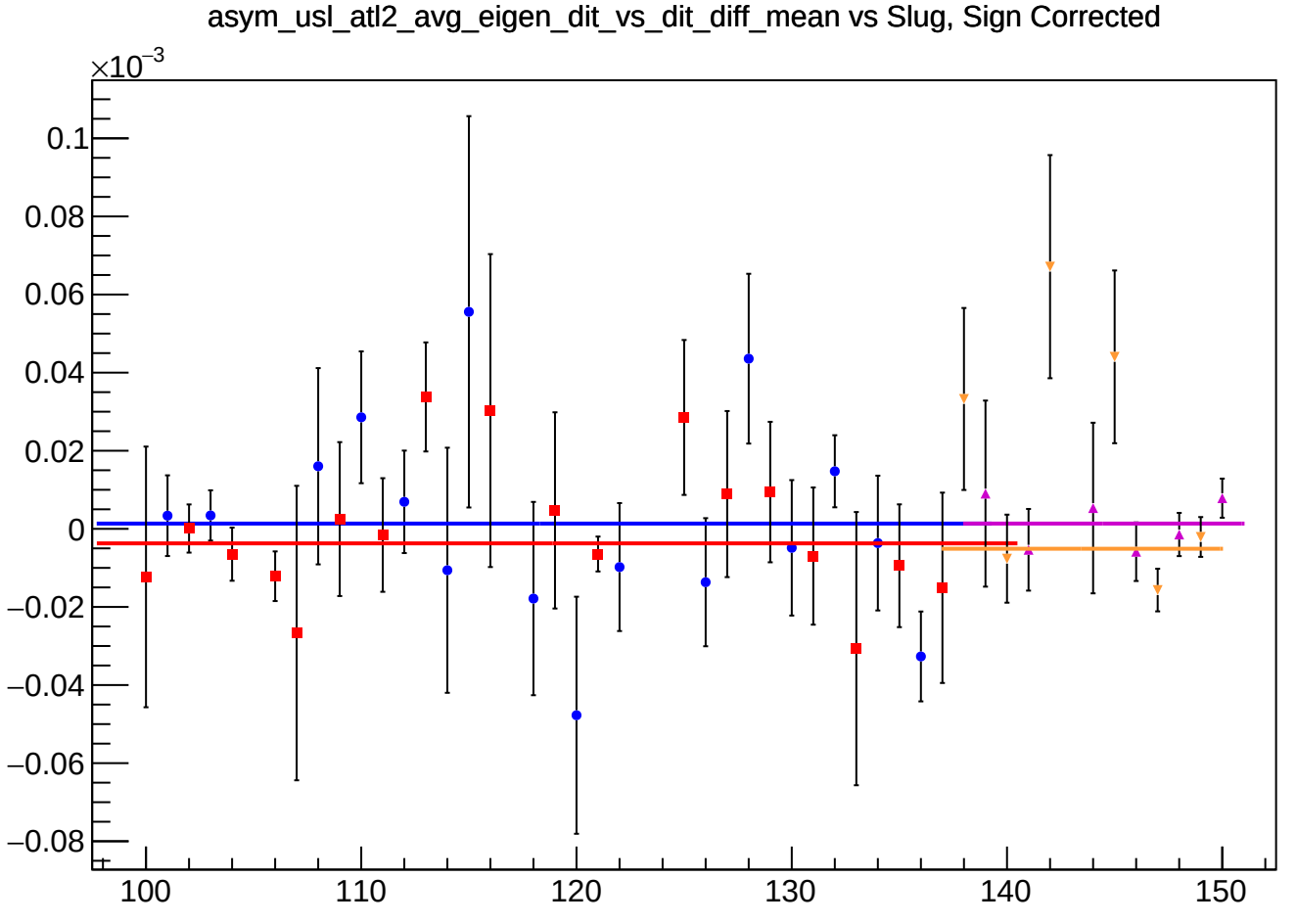
Left: 331.369+/-0.078 $\chi^2$/NDF: 834249.6/11

Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

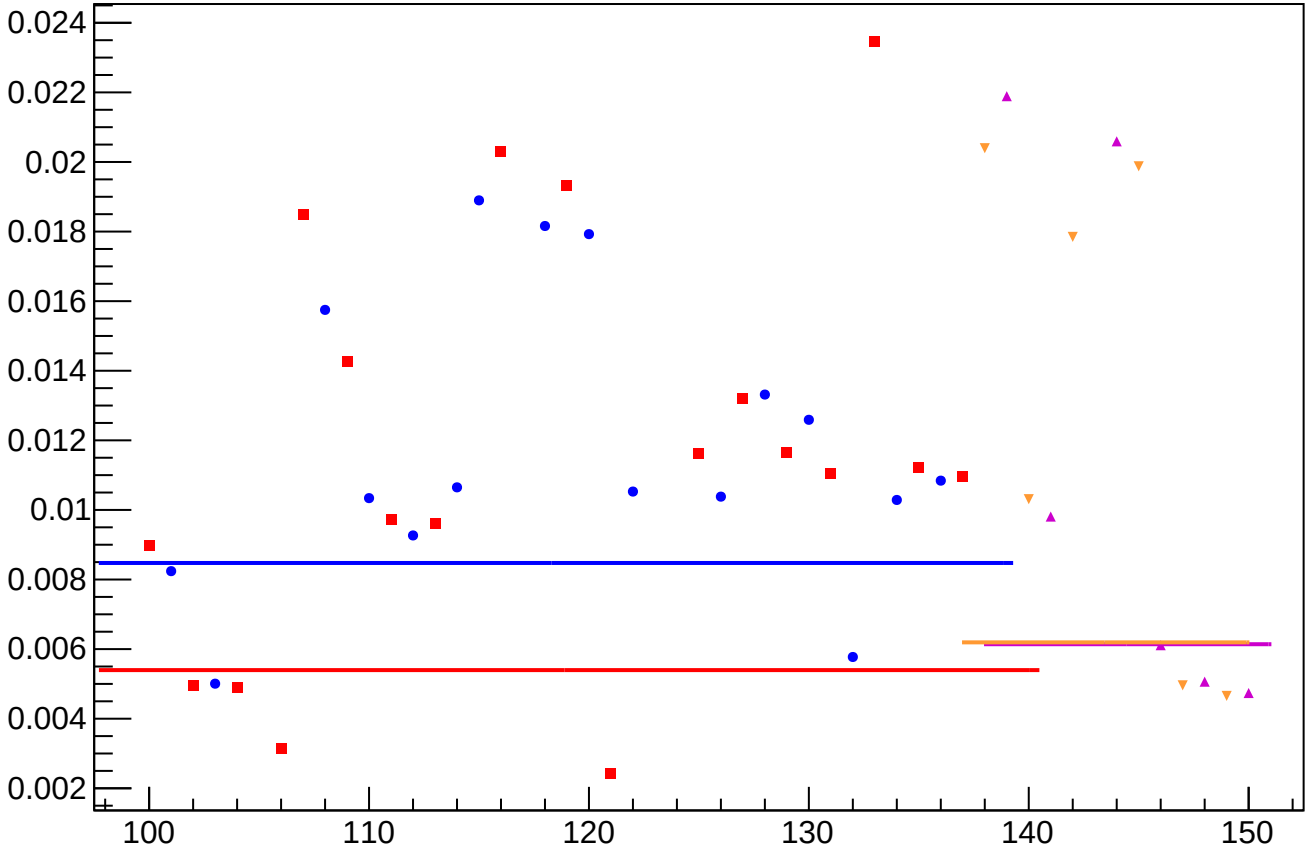
In: 159.778+/-0.036 $\chi^2$/NDF:3960406.0/21

Out: 149.141+/-0.035 $\chi^2$/NDF:4168803.1/23

All: 154.388+/-0.025 $\chi^2$/NDF: 8173659.7/45


asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 23.9/15
Left Out: -0.000+/-0.000 χ²/NDF:18.2/5
Right Out: -0.000+/-0.000 χ²/NDF: 15.8/17
Left In: 0.000+/-0.000 χ²/NDF:3.4/5
Left: -0.000+/-0.000 χ²/NDF: 23.6/11
Right: -0.000+/-0.000 χ²/NDF: 41.1/33
In: 0.000+/-0.000 χ²/NDF:27.4/21
Out: -0.000+/-0.000 χ²/NDF:34.1/23
All: -0.000+/-0.000 χ²/NDF: 64.7/45

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1925998.4/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:2392591.1/5

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 4909074.3/17

Left In: 0.006+/-0.000 $\chi^2$/NDF:2228479.0/5

Left: 0.006+/-0.000 $\chi^2$/NDF: 4621335.9/11

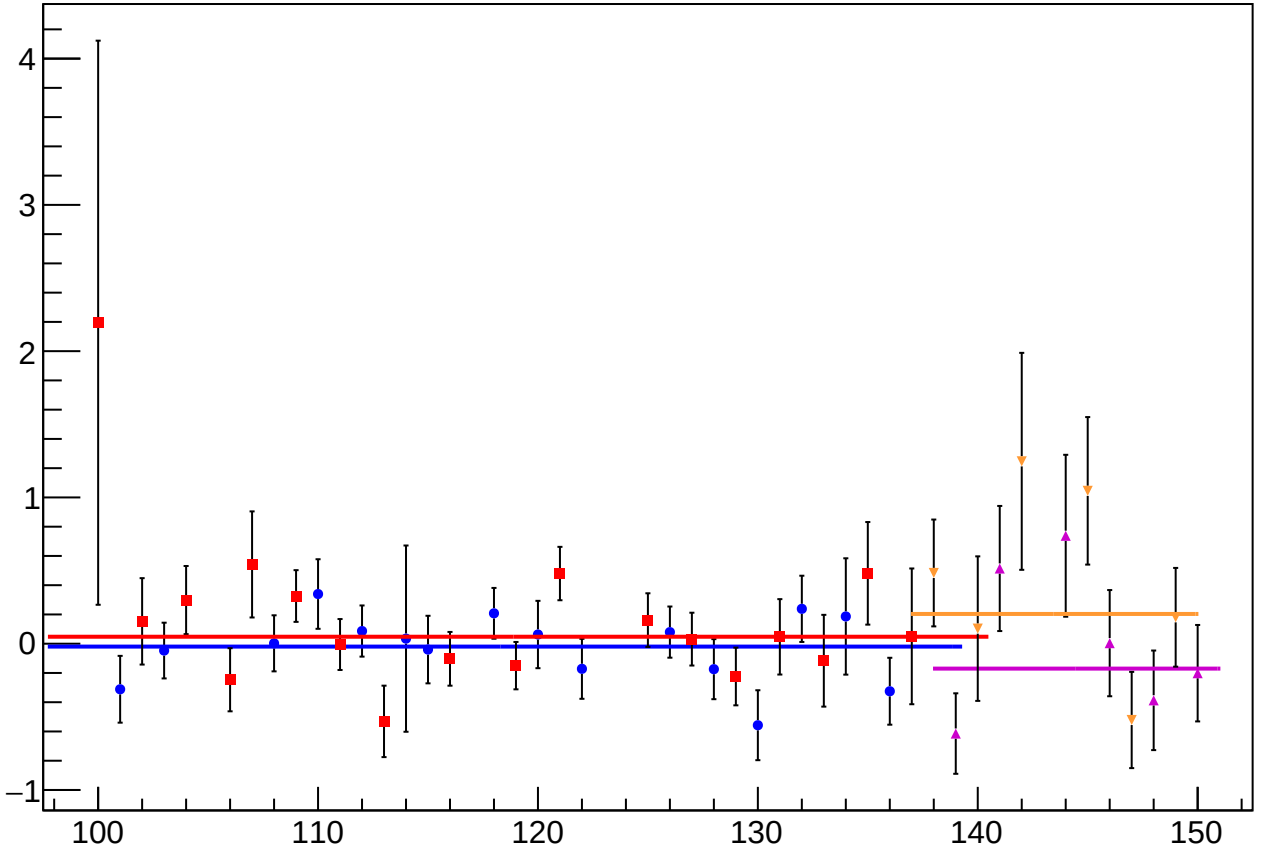
Right: 0.006+/-0.000 $\chi^2$/NDF: 7872620.7/33

In: 0.007+/-0.000 $\chi^2$/NDF:4660143.1/21

Out: 0.006+/-0.000 $\chi^2$/NDF:7371798.1/23

All: 0.006+/-0.000 $\chi^2$/NDF: 12513956.5/45

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: 0.203+/-0.168 $\chi^2$/NDF:10.3/5

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.170+/-0.145 $\chi^2$/NDF:8.5/5

Left: -0.011+/-0.110 $\chi^2$/NDF: 21.6/11

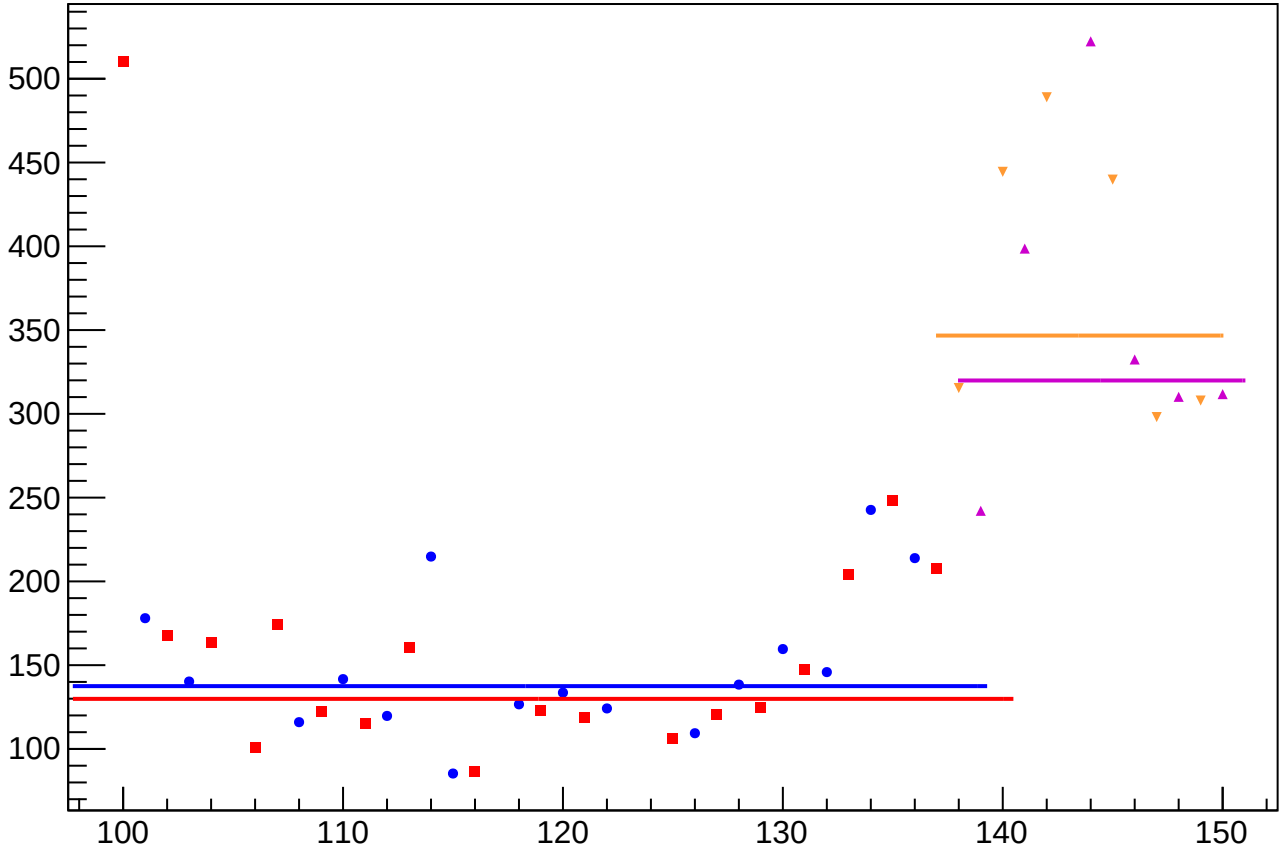
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.038+/-0.051 $\chi^2$/NDF:25.5/21

Out: 0.062+/-0.050 $\chi^2$/NDF:37.3/23

All: 0.012+/-0.036 $\chi^2$/NDF: 64.7/45

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692923.1/15

Left Out: 346.721+/-0.119 $\chi^2$/NDF:304794.2/5

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 319.913+/-0.103 $\chi^2$/NDF:500358.2/5

Left: 331.373+/-0.078 $\chi^2$/NDF: 834253.2/11

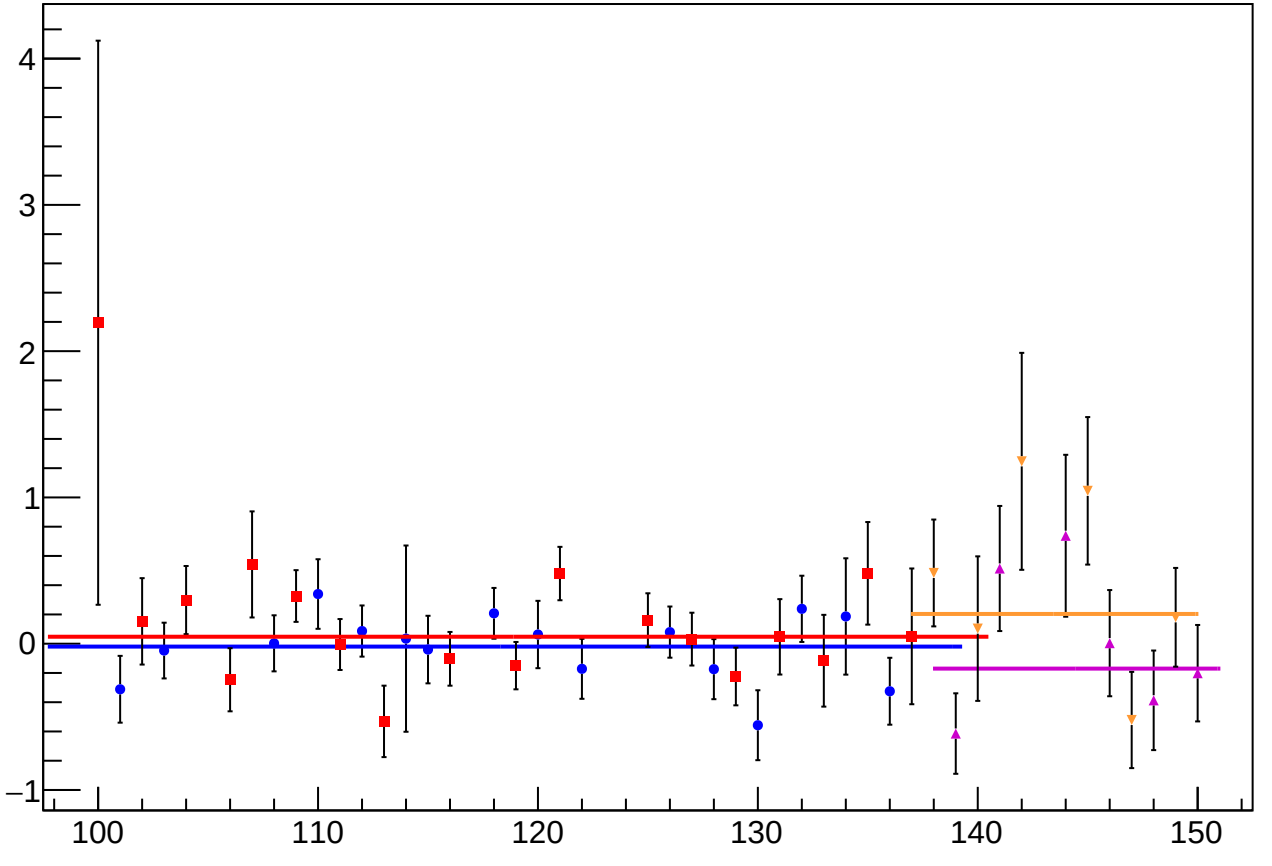
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 159.778+/-0.036 $\chi^2$/NDF:3960438.6/21

Out: 149.141+/-0.035 $\chi^2$/NDF:4168807.8/23

All: 154.388+/-0.025 $\chi^2$/NDF: 8173696.6/45

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: 0.203+/-0.168 $\chi^2$/NDF:10.3/5

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.170+/-0.145 $\chi^2$/NDF:8.5/5

Left: -0.011+/-0.110 $\chi^2$/NDF: 21.6/11

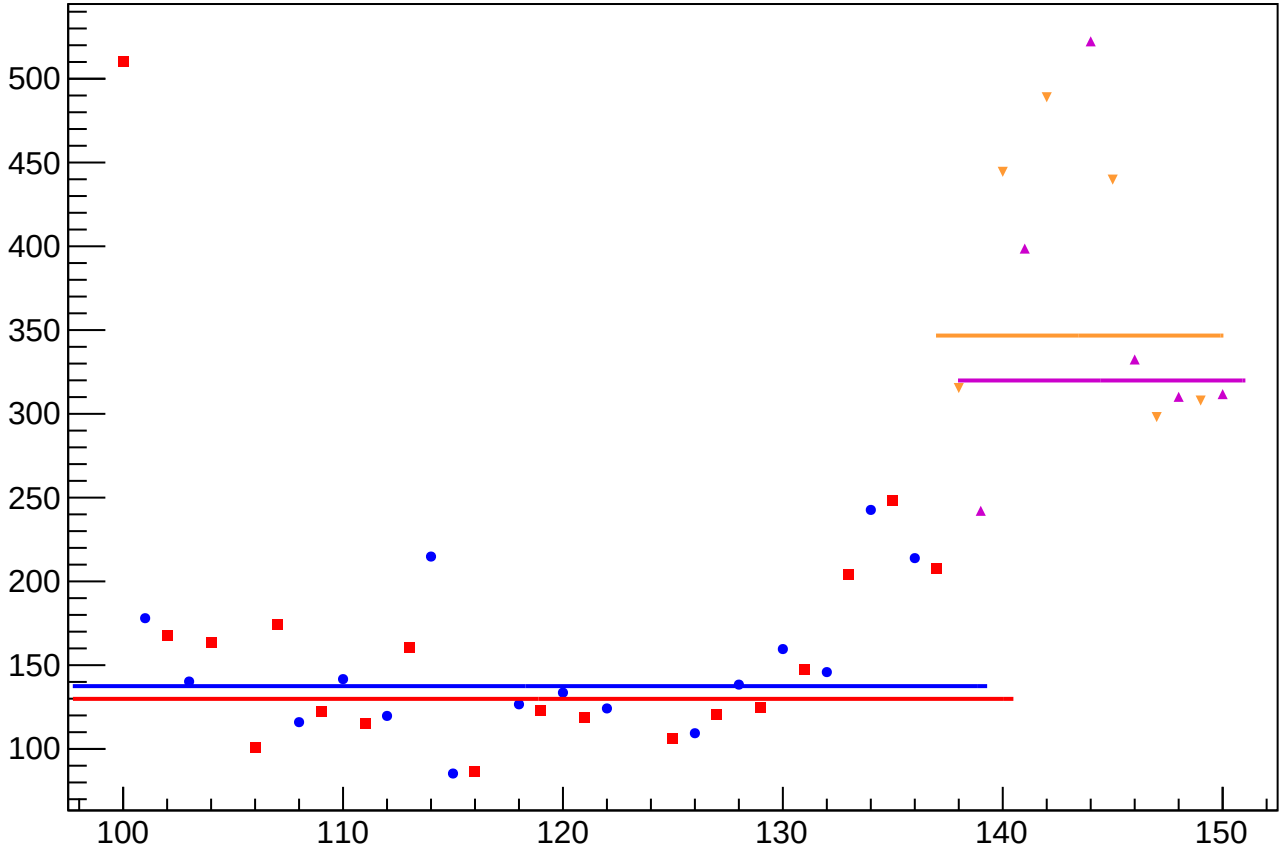
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.038+/-0.051 $\chi^2$/NDF:25.5/21

Out: 0.062+/-0.050 $\chi^2$/NDF:37.3/23

All: 0.012+/-0.036 $\chi^2$/NDF: 64.7/45

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692923.1/15

Left Out: 346.721+/-0.119 $\chi^2$/NDF:304794.2/5

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 319.913+/-0.103 $\chi^2$/NDF:500358.2/5

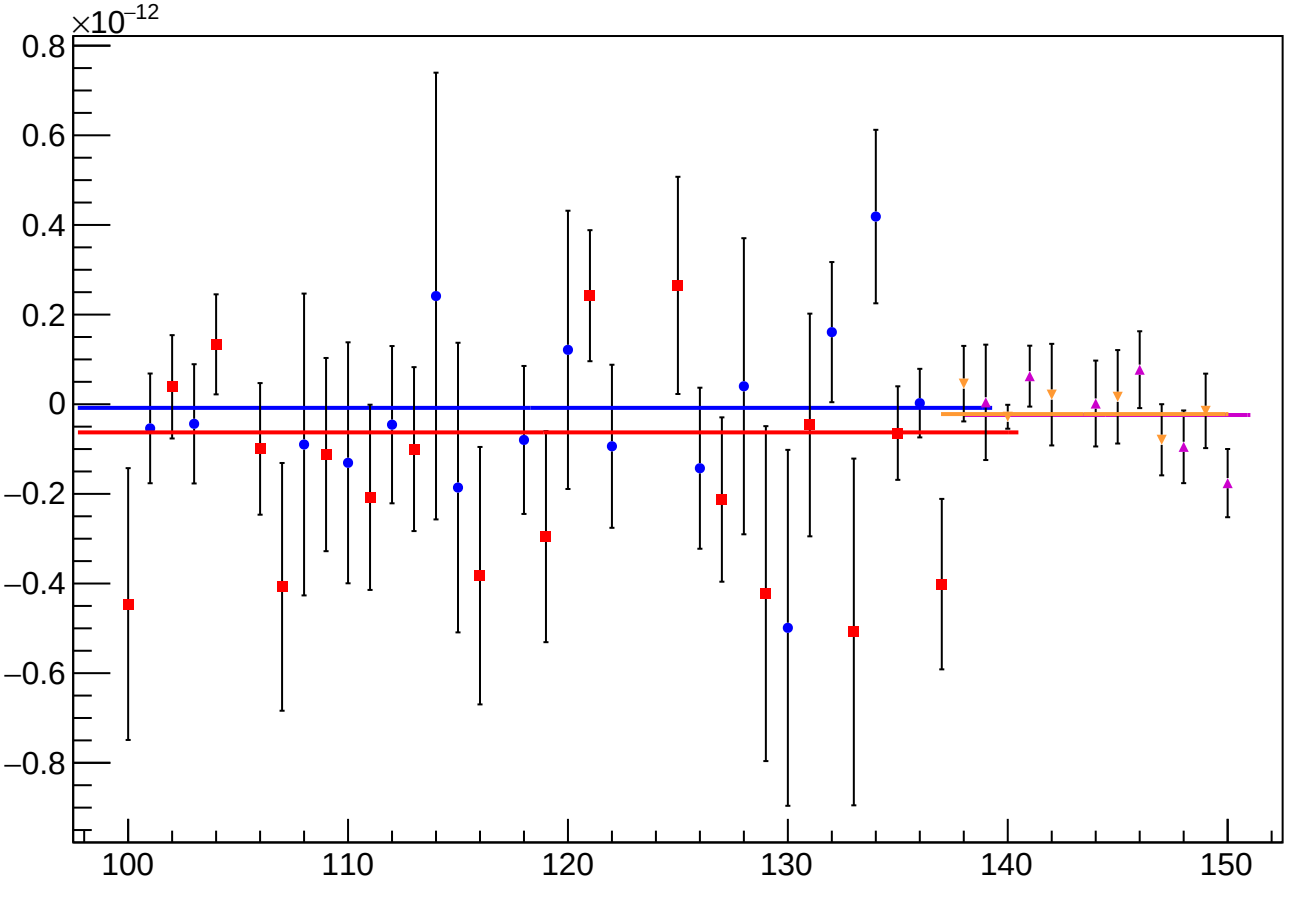
Left: 331.373+/-0.078 $\chi^2$/NDF: 834253.2/11

Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 159.778+/-0.036 $\chi^2$/NDF:3960438.6/21

Out: 149.141+/-0.035 $\chi^2$/NDF:4168807.8/23

All: 154.388+/-0.025 $\chi^2$/NDF: 8173696.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.5/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.9/5

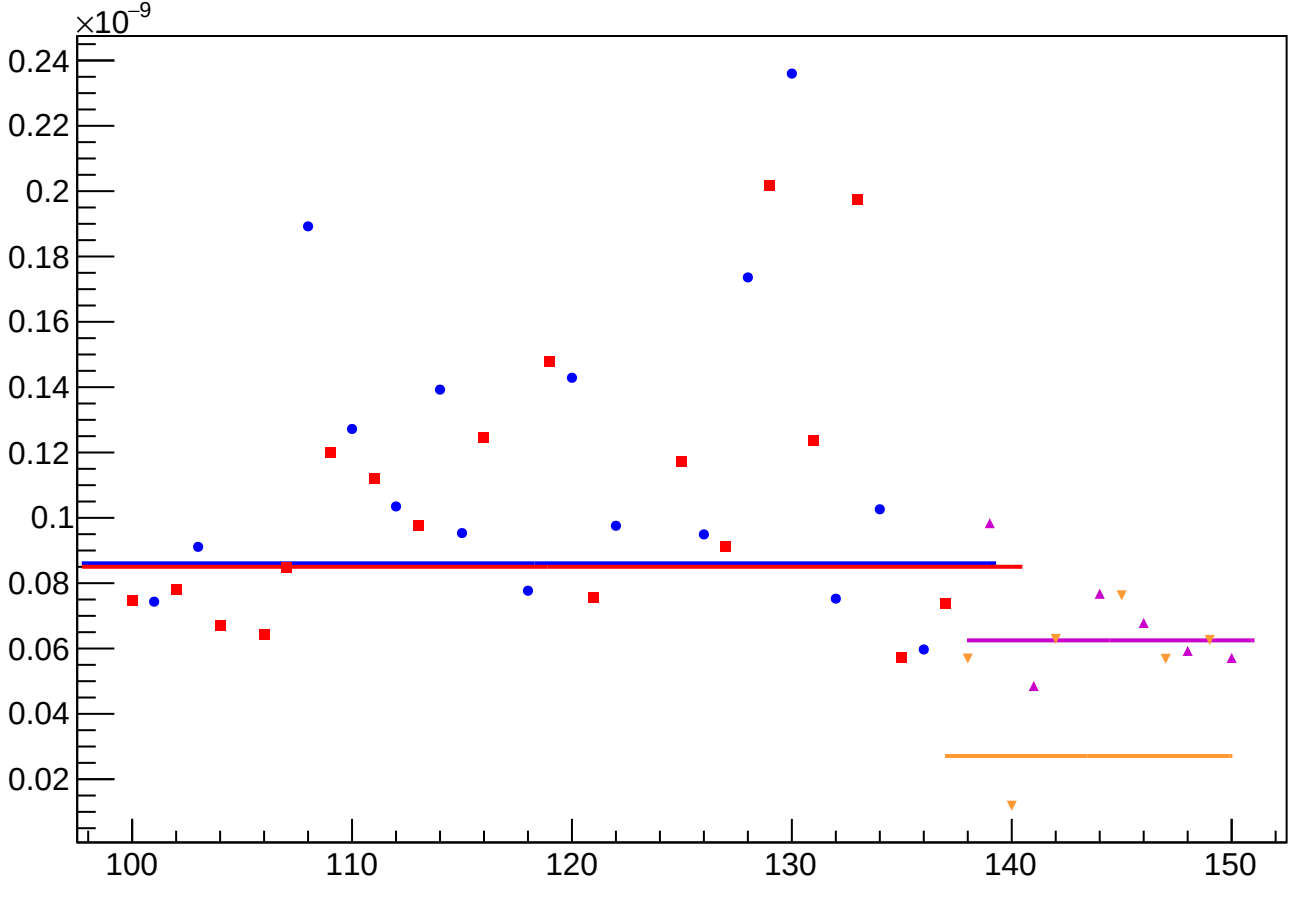
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.4/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:17.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 42.4/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1072075.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2192960.7/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 983211.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:305199.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 3993182.2/11

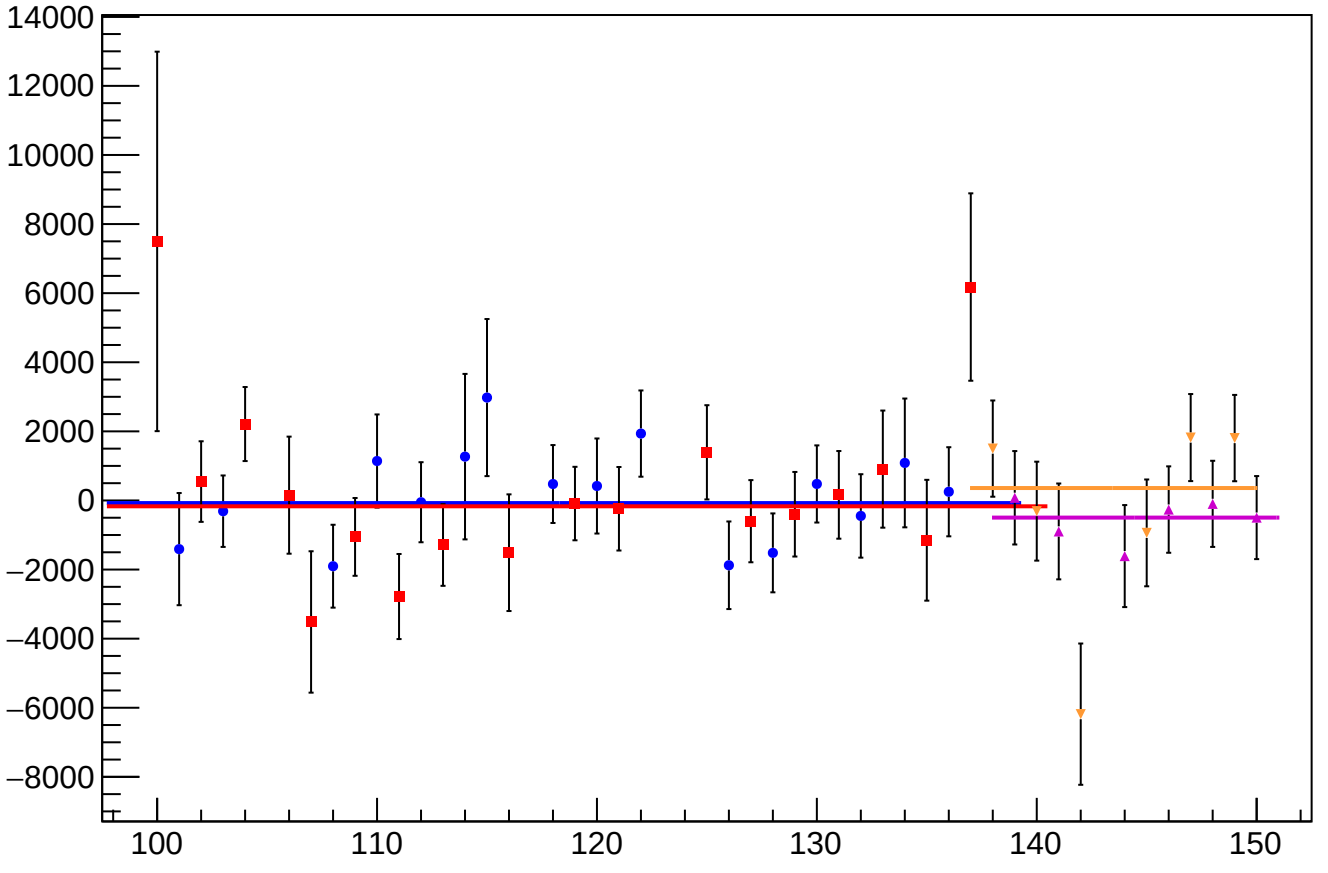
Right: 0.000+/-0.000 $\chi^2$/NDF: 2055907.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:1749811.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6176030.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9777627.6/45

# reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected




Right In: -75.944+/-326.226 $\chi^2$/NDF: 13.4/15

Left Out: 359.475+/-584.049 $\chi^2$/NDF:14.5/5

Right Out: -169.345+/-321.827 $\chi^2$/NDF: 24.4/17

Left In: -496.175+/-534.456 $\chi^2$/NDF:1.0/5

Left: -106.214+/-394.287 $\chi^2$/NDF: 16.7/11

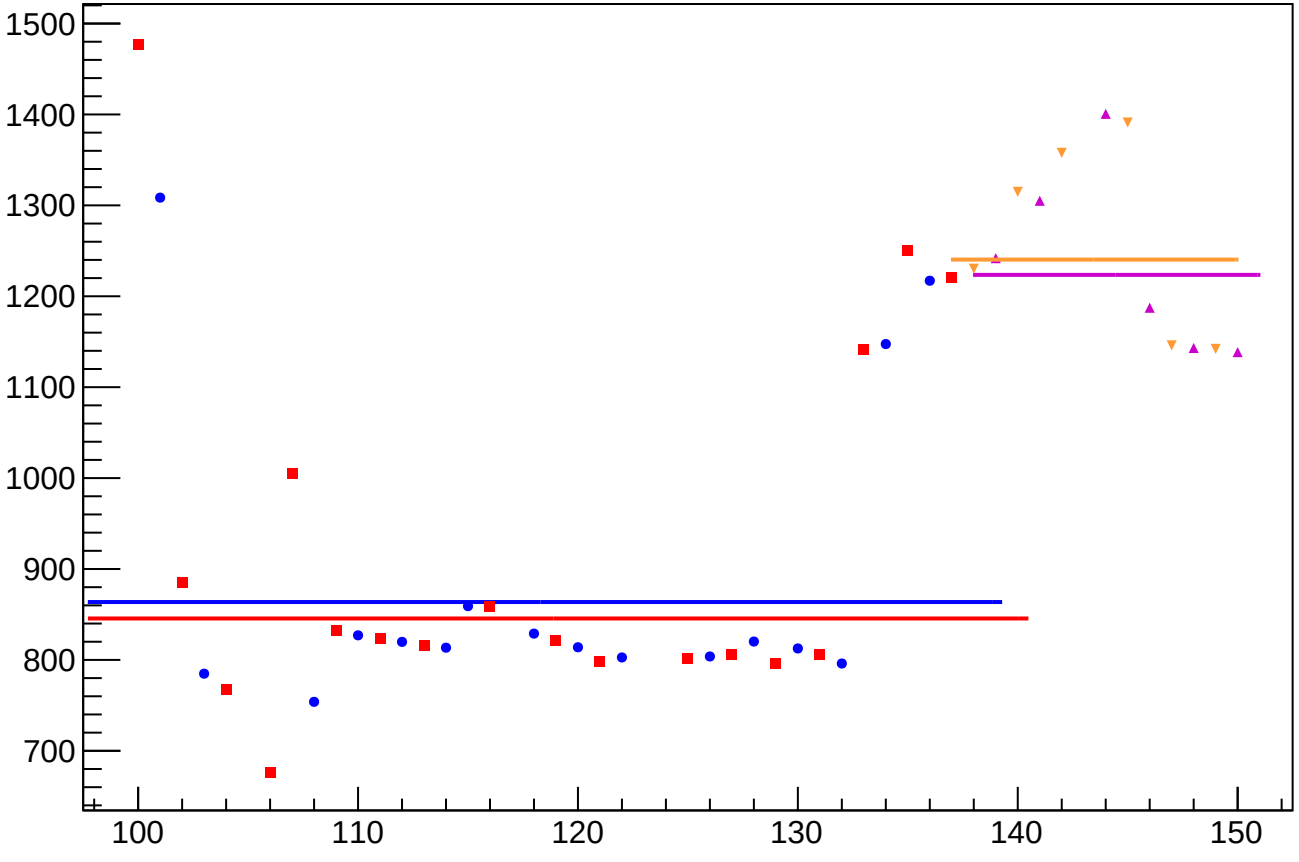
Right: -123.279+/-229.106 $\chi^2$/NDF: 37.8/33

In: -190.013+/-278.452 $\chi^2$/NDF:14.8/21

Out: -46.176+/-281.868 $\chi^2$/NDF:39.5/23

All: -118.971+/-198.092 $\chi^2$/NDF: 54.4/45

# reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.8/15

Left Out: 1240.358+/-0.413 $\chi^2$/NDF:54731.8/5

Right Out: 845.579+/-0.225 $\chi^2$/NDF: 307774.6/17

Left In: 1223.539+/-0.378 $\chi^2$/NDF:56065.8/5

Left: 1231.204+/-0.279 $\chi^2$/NDF: 111700.3/11

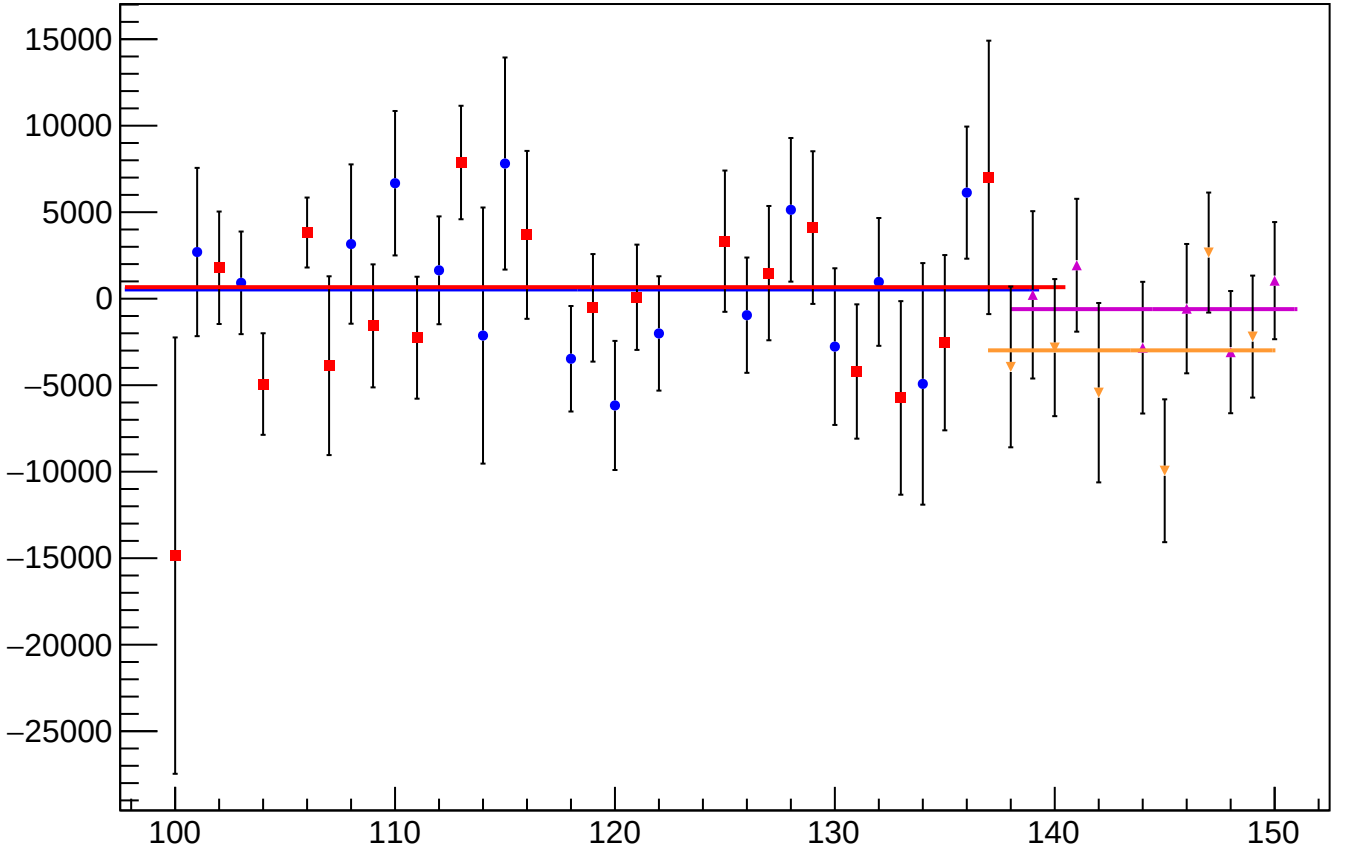
Right: 854.385+/-0.161 $\chi^2$/NDF: 718425.8/33

In: 961.347+/-0.197 $\chi^2$/NDF:1124225.6/21

Out: 935.785+/-0.197 $\chi^2$/NDF:1067485.5/23

All: 948.600+/-0.139 $\chi^2$/NDF: 2200116.5/45

asym_usl_atl2_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 534.507+/-981.290 $\chi^2$/NDF: 14.7/15

Left Out: -2985.891+/-1645.215 $\chi^2$/NDF:5.8/5

Right Out: 665.878+/-864.970 $\chi^2$/NDF: 20.0/17

Left In: -603.193+/-1545.739 $\chi^2$/NDF:1.5/5

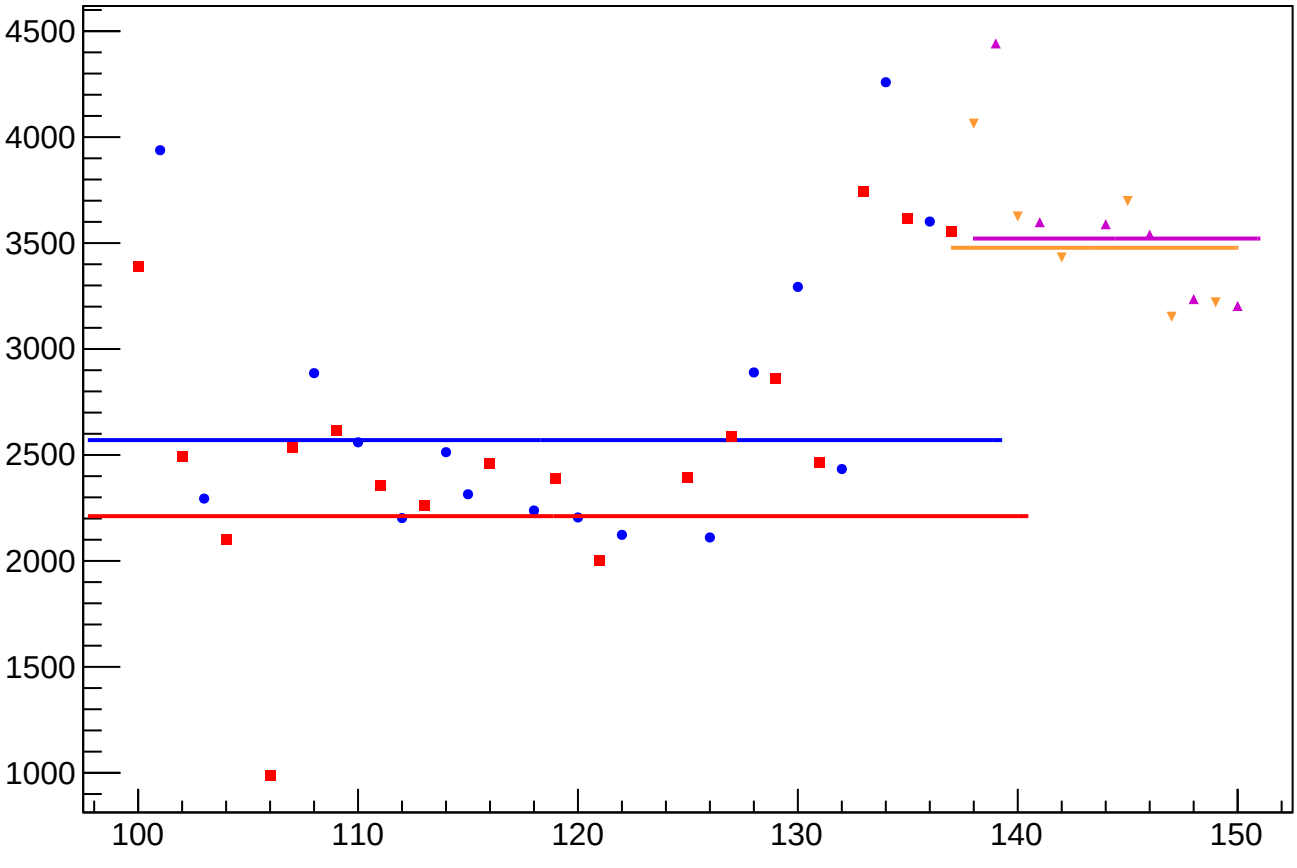
Left: -1720.335+/-1126.529 $\chi^2$/NDF: 8.5/11

Right: 608.437+/-648.874 $\chi^2$/NDF: 34.6/33

In: 207.703+/-828.450 $\chi^2$/NDF:16.6/21

Out: -124.927+/-765.607 $\chi^2$/NDF:29.6/23

All: 28.295+/-562.271 $\chi^2$/NDF: 46.3/45




Right In: 2570.135+/-0.694 $\chi^2$/NDF: 662477.9/15

Left Out: 3477.823+/-1.163 $\chi^2$/NDF:68725.7/5

Right Out: 2211.269+/-0.612 $\chi^2$/NDF: 1264087.9/17

Left In: 3521.363+/-1.093 $\chi^2$/NDF:104751.9/5

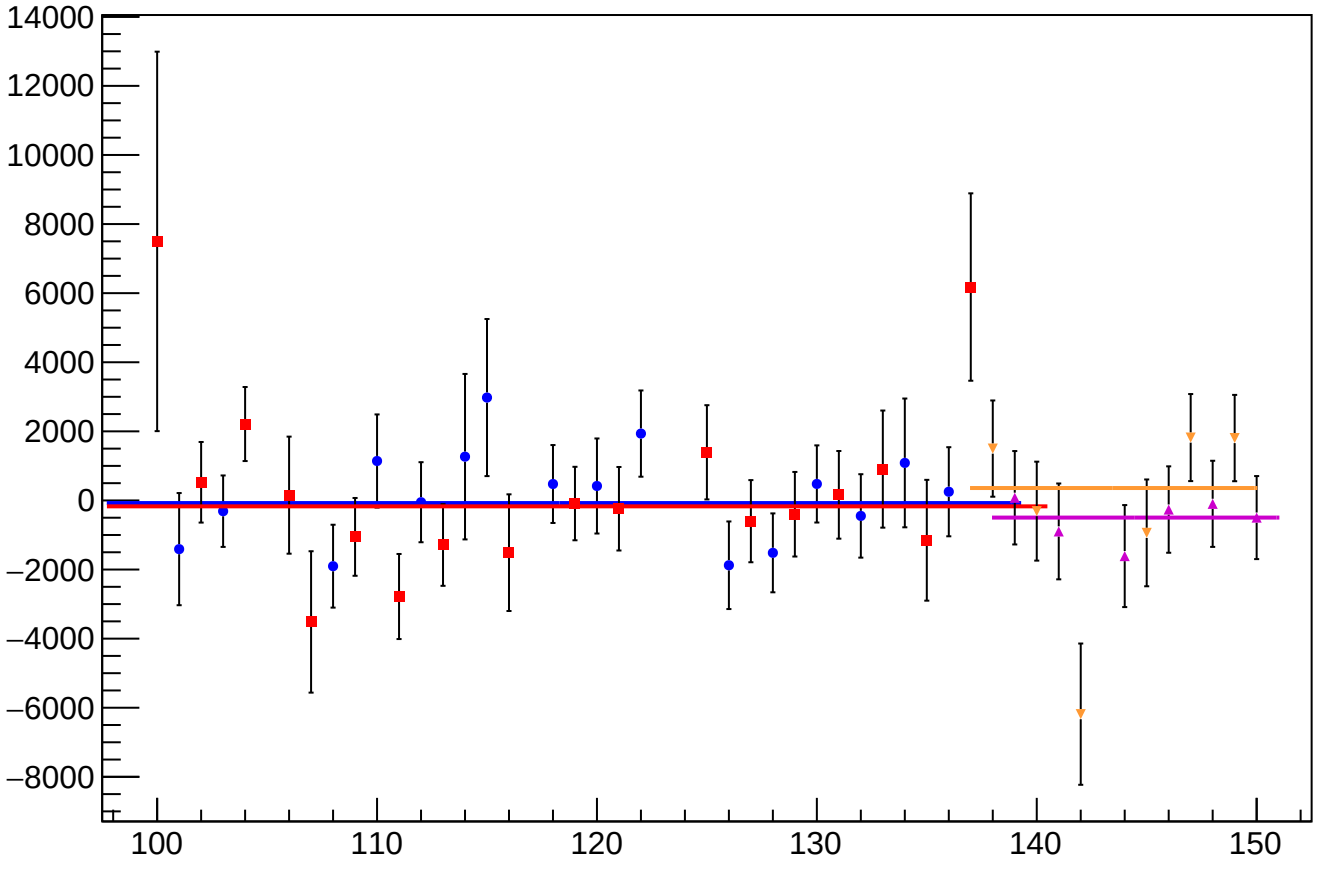
Left: 3500.949+/-0.797 $\chi^2$/NDF: 174221.6/11

Right: 2368.182+/-0.459 $\chi^2$/NDF: 2077093.7/33

In: 2843.375+/-0.586 $\chi^2$/NDF:1307069.5/21

Out: 2485.547+/-0.541 $\chi^2$/NDF:2261440.2/23

All: 2650.376+/-0.398 $\chi^2$/NDF: 3769756.3/45




Right In: -76.022+/-326.226 $\chi^2$/NDF: 13.3/15

Left Out: 359.423+/-584.049 $\chi^2$/NDF:14.5/5

Right Out: -170.982+/-321.832 $\chi^2$/NDF: 24.4/17

Left In: -496.209+/-534.456 $\chi^2$/NDF:1.0/5

Left: -106.256+/-394.287 $\chi^2$/NDF: 16.7/11

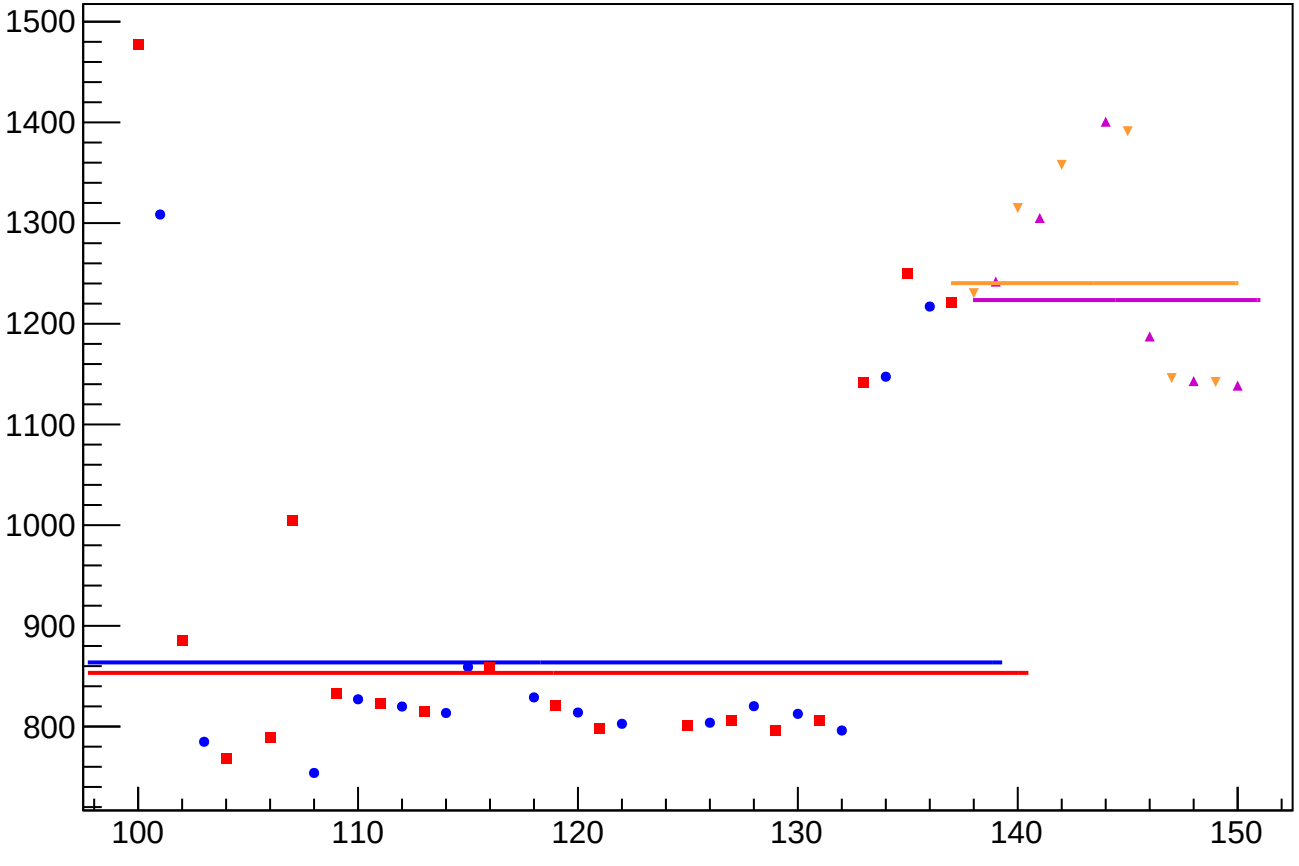
Right: -124.146+/-229.107 $\chi^2$/NDF: 37.7/33

In: -190.079+/-278.452 $\chi^2$/NDF:14.8/21

Out: -47.442+/-281.871 $\chi^2$/NDF:39.5/23

All: -119.630+/-198.093 $\chi^2$/NDF: 54.4/45

# cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1240.358+/-0.413 $\chi^2$/NDF:54731.8/5

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1223.539+/-0.378 $\chi^2$/NDF:56065.8/5

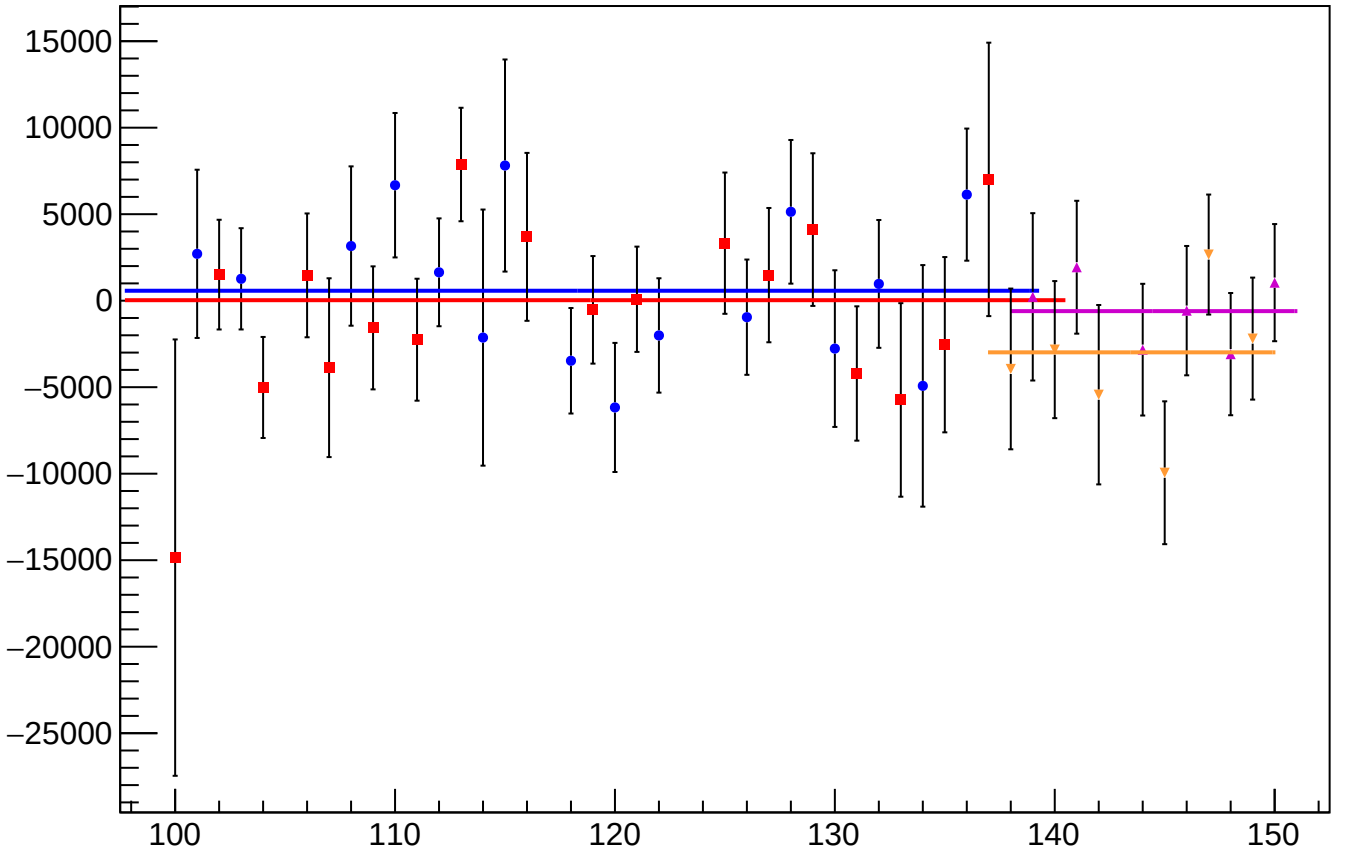
Left: 1231.204+/-0.279 $\chi^2$/NDF: 111700.3/11

Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 961.347+/-0.197 $\chi^2$/NDF:1124225.5/21

Out: 942.730+/-0.199 $\chi^2$/NDF:1005536.9/23

All: 952.115+/-0.140 $\chi^2$/NDF: 2134195.7/45




Right In: 574.964+/-979.856 $\chi^2$/NDF: 14.7/15

Left Out: -2985.938+/-1645.214 $\chi^2$/NDF:5.8/5

Right Out: 28.604+/-922.115 $\chi^2$/NDF: 17.2/17

Left In: -603.212+/-1545.737 $\chi^2$/NDF:1.5/5

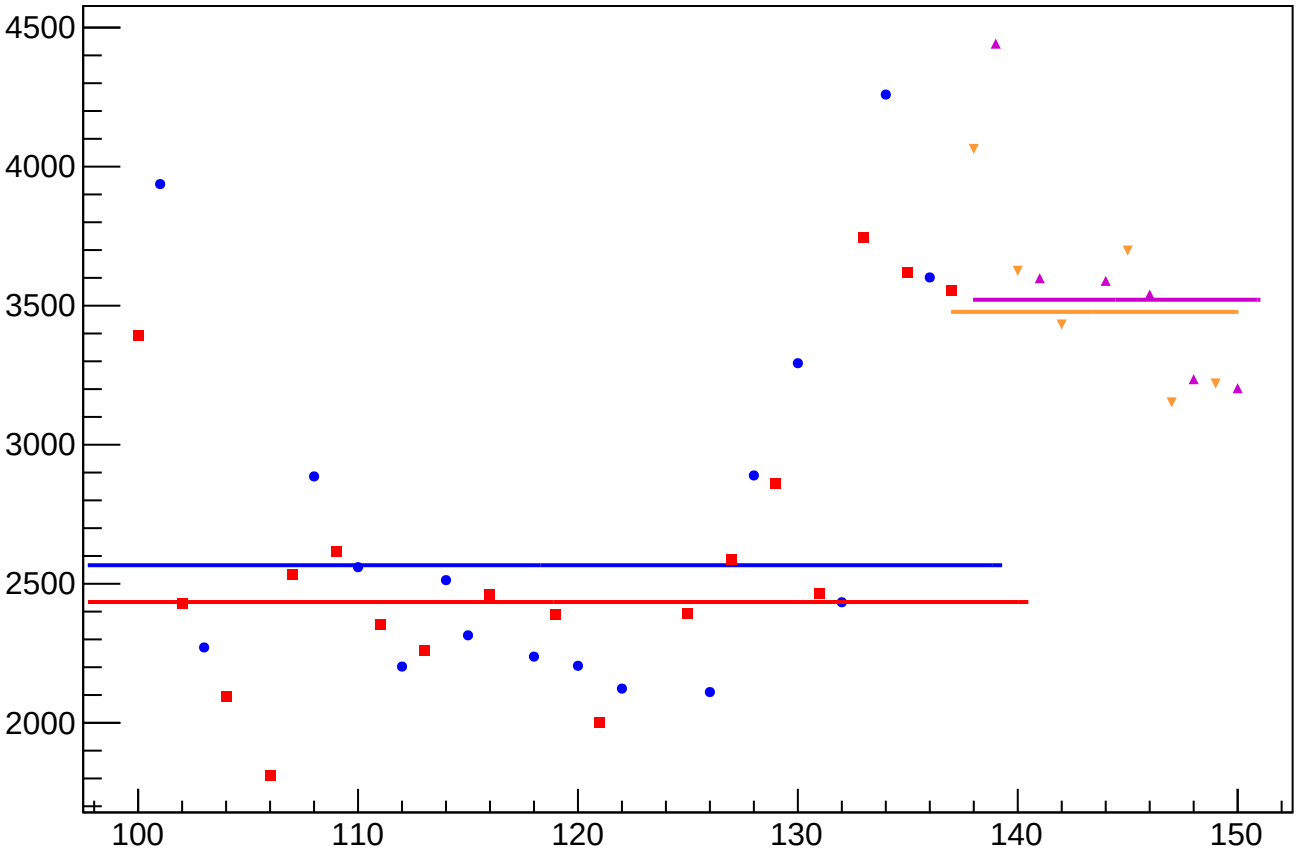
Left: -1720.366+/-1126.528 $\chi^2$/NDF: 8.5/11

Right: 285.212+/-671.519 $\chi^2$/NDF: 32.1/33

In: 237.238+/-827.586 $\chi^2$/NDF:16.7/21

Out: -692.013+/-804.385 $\chi^2$/NDF:25.6/23

All: -240.596+/-576.814 $\chi^2$/NDF: 42.9/45




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 3477.822+/-1.163 $\chi^2$/NDF:68725.0/5

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 3521.359+/-1.093 $\chi^2$/NDF:104752.3/5

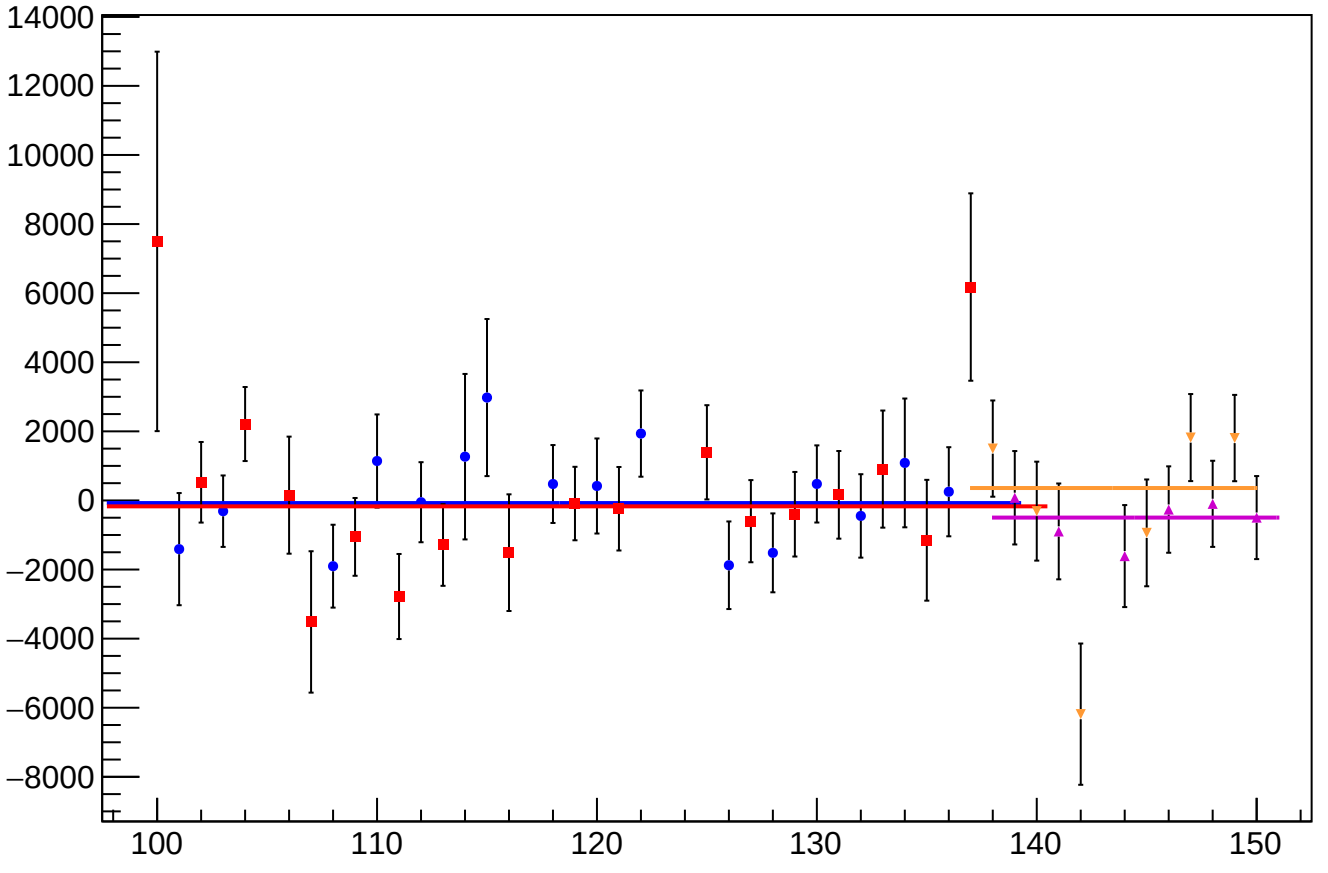
Left: 3500.947+/-0.797 $\chi^2$/NDF: 174221.2/11

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 2840.378+/-0.585 $\chi^2$/NDF:1314784.8/21

Out: 2683.850+/-0.569 $\chi^2$/NDF:1114926.1/23

All: 2759.889+/-0.408 $\chi^2$/NDF: 2466501.1/45




Right In: -76.022+/-326.226 $\chi^2$/NDF: 13.3/15

Left Out: 359.423+/-584.049 $\chi^2$/NDF:14.5/5

Right Out: -170.982+/-321.832 $\chi^2$/NDF: 24.4/17

Left In: -496.209+/-534.456 $\chi^2$/NDF:1.0/5

Left: -106.256+/-394.287 $\chi^2$/NDF: 16.7/11

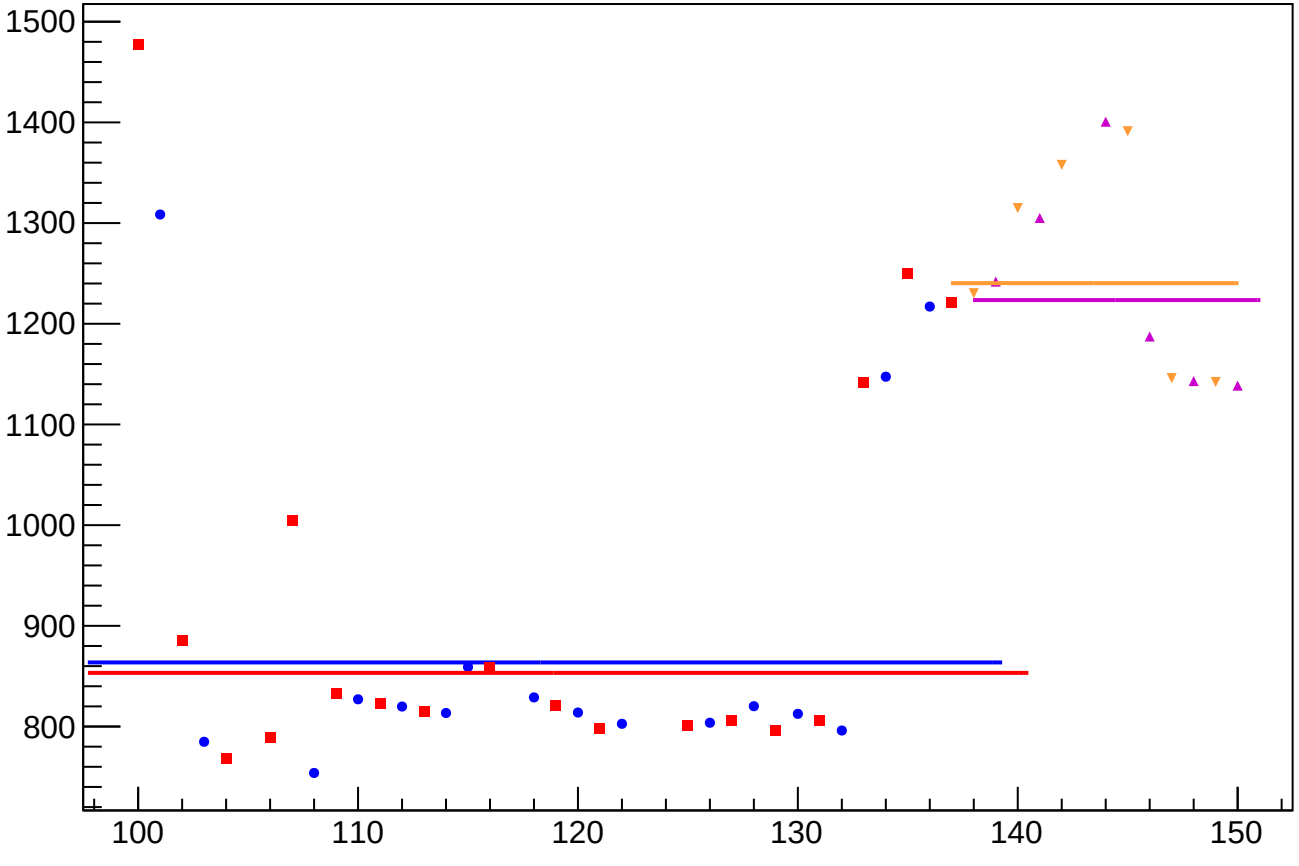
Right: -124.146+/-229.107 $\chi^2$/NDF: 37.7/33

In: -190.079+/-278.452 $\chi^2$/NDF:14.8/21

Out: -47.442+/-281.871 $\chi^2$/NDF:39.5/23

All: -119.630+/-198.093 $\chi^2$/NDF: 54.4/45

# eigen_cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1240.358+/-0.413 $\chi^2$/NDF:54731.8/5

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1223.539+/-0.378 $\chi^2$/NDF:56065.8/5

Left: 1231.204+/-0.279 $\chi^2$/NDF: 111700.3/11

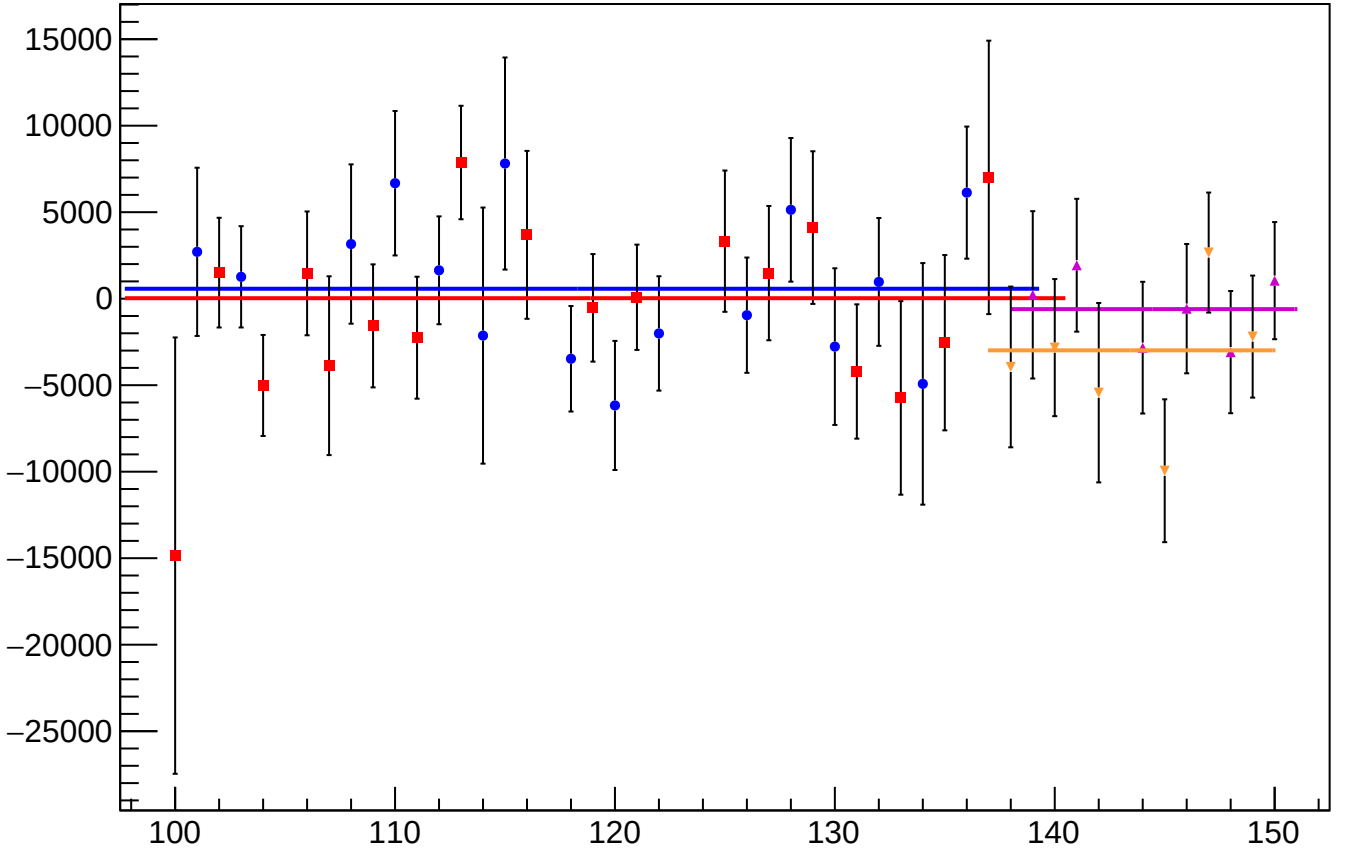
Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 961.347+/-0.197 $\chi^2$/NDF:1124225.5/21

Out: 942.730+/-0.199 $\chi^2$/NDF:1005536.9/23

All: 952.115+/-0.140 $\chi^2$/NDF: 2134195.7/45

asym_usl_atl2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 574.964+/-979.856 $\chi^2$/NDF: 14.7/15

Left Out: -2985.938+/-1645.214 $\chi^2$/NDF:5.8/5

Right Out: 28.604+/-922.115 $\chi^2$/NDF: 17.2/17

Left In: -603.212+/-1545.737 $\chi^2$/NDF:1.5/5

Left: -1720.366+/-1126.528 $\chi^2$/NDF: 8.5/11

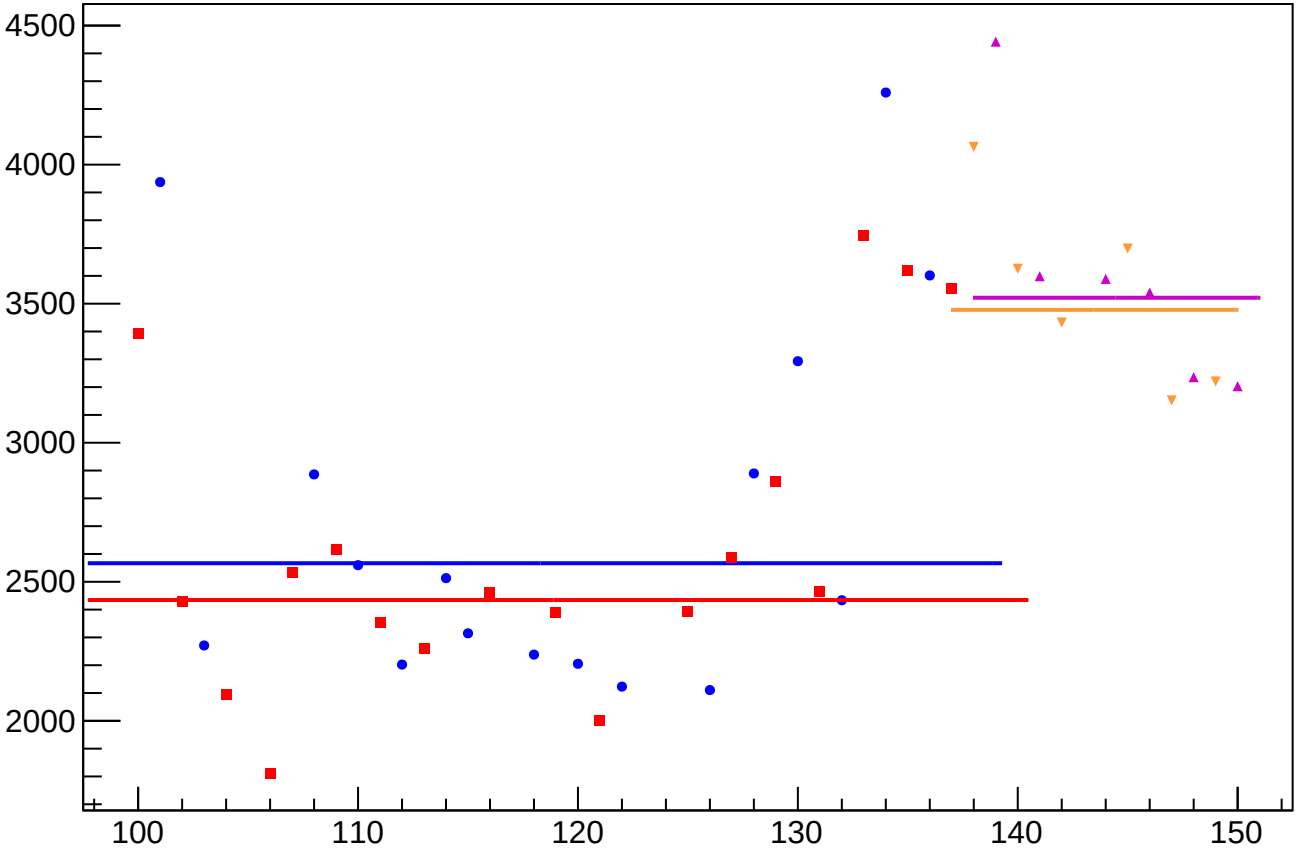
Right: 285.212+/-671.519 $\chi^2$/NDF: 32.1/33

In: 237.238+/-827.586 $\chi^2$/NDF:16.7/21

Out: -692.013+/-804.385 $\chi^2$/NDF:25.6/23

All: -240.596+/-576.814 $\chi^2$/NDF: 42.9/45

asym_usl_atl2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 3477.822+/-1.163 $\chi^2$/NDF:68725.0/5

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 3521.359+/-1.093 $\chi^2$/NDF:104752.3/5

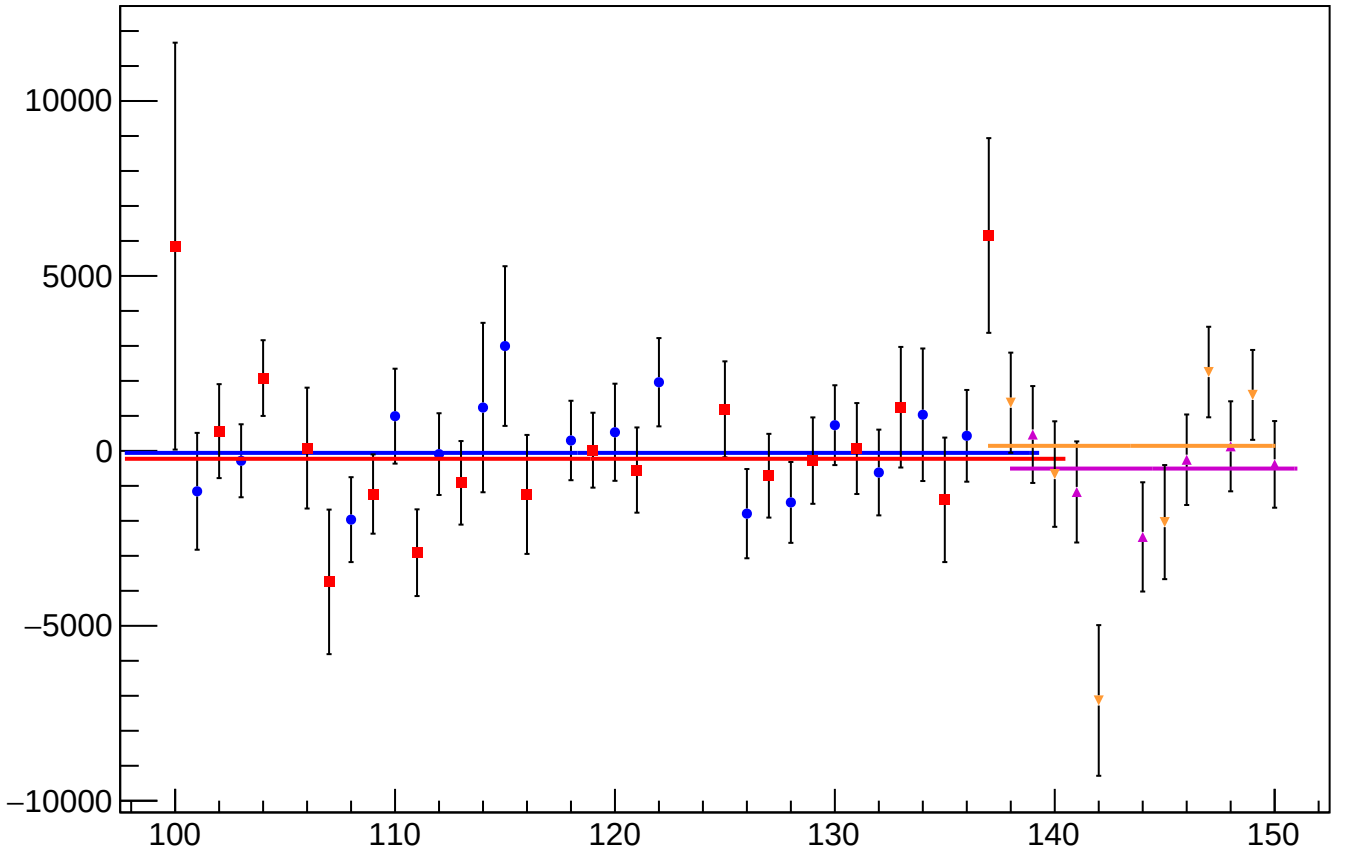
Left: 3500.947+/-0.797 $\chi^2$/NDF: 174221.2/11

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 2840.378+/-0.585 $\chi^2$/NDF:1314784.8/21

Out: 2683.850+/-0.569 $\chi^2$/NDF:1114926.1/23

All: 2759.889+/-0.408 $\chi^2$/NDF: 2466501.1/45




Right In: -57.208+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: 144.032+/-606.017 $\chi^2$/NDF:18.2/5

Right Out: -226.075+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -505.644+/-553.446 $\chi^2$/NDF:2.6/5

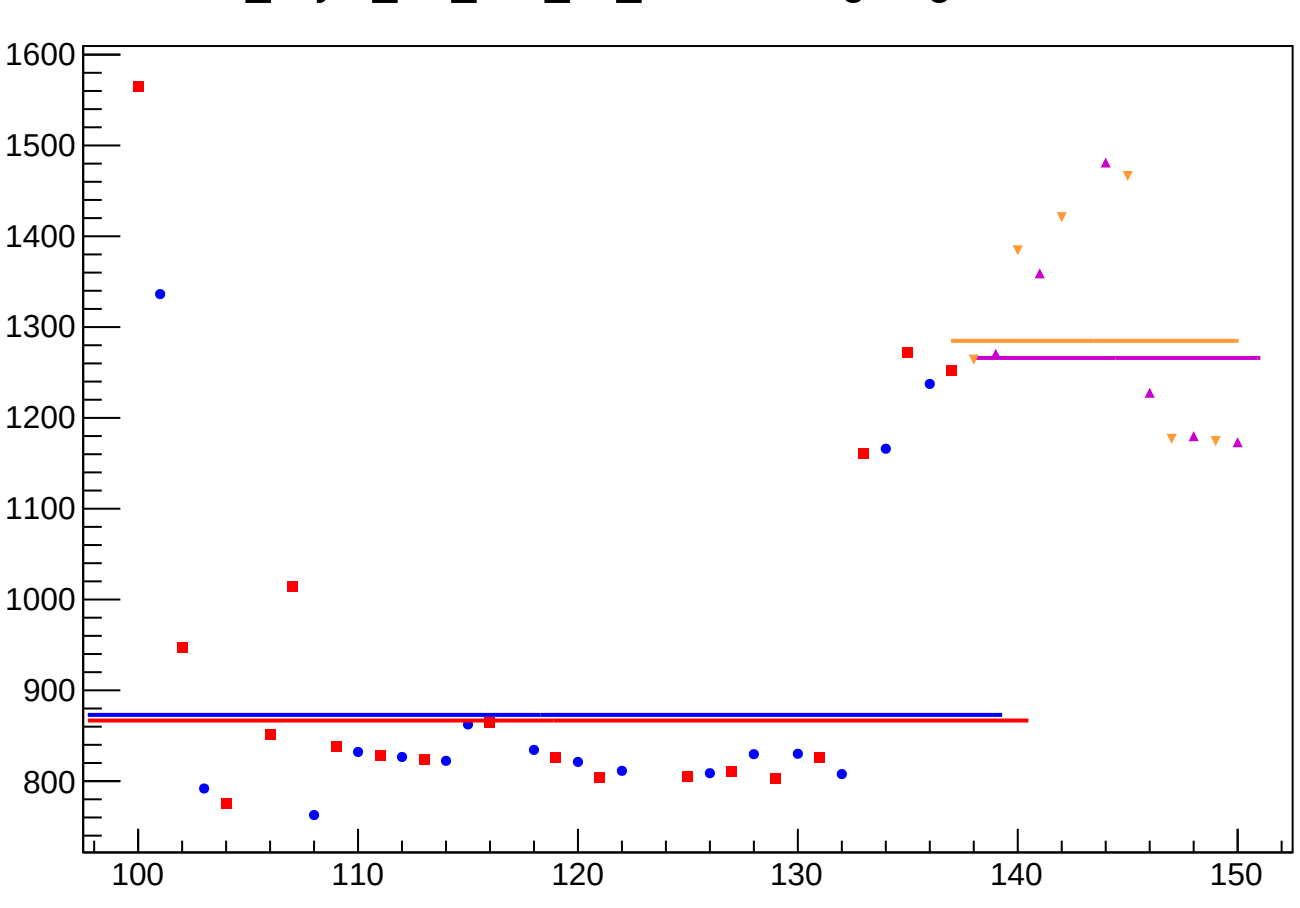
Left: -210.202+/-408.669 $\chi^2$/NDF: 21.4/11

Right: -142.159+/-232.690 $\chi^2$/NDF: 36.0/33

In: -174.870+/-283.494 $\chi^2$/NDF:16.0/21

Out: -142.193+/-288.506 $\chi^2$/NDF:41.4/23

All: -158.818+/-202.209 $\chi^2$/NDF: 57.4/45




Right In: 872.971+/-0.233 $\chi^2$/NDF: 417099.2/15

Left Out: 1284.836+/-0.429 $\chi^2$/NDF:70591.7/5

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.4/17

Left In: 1266.031+/-0.391 $\chi^2$/NDF:68273.2/5

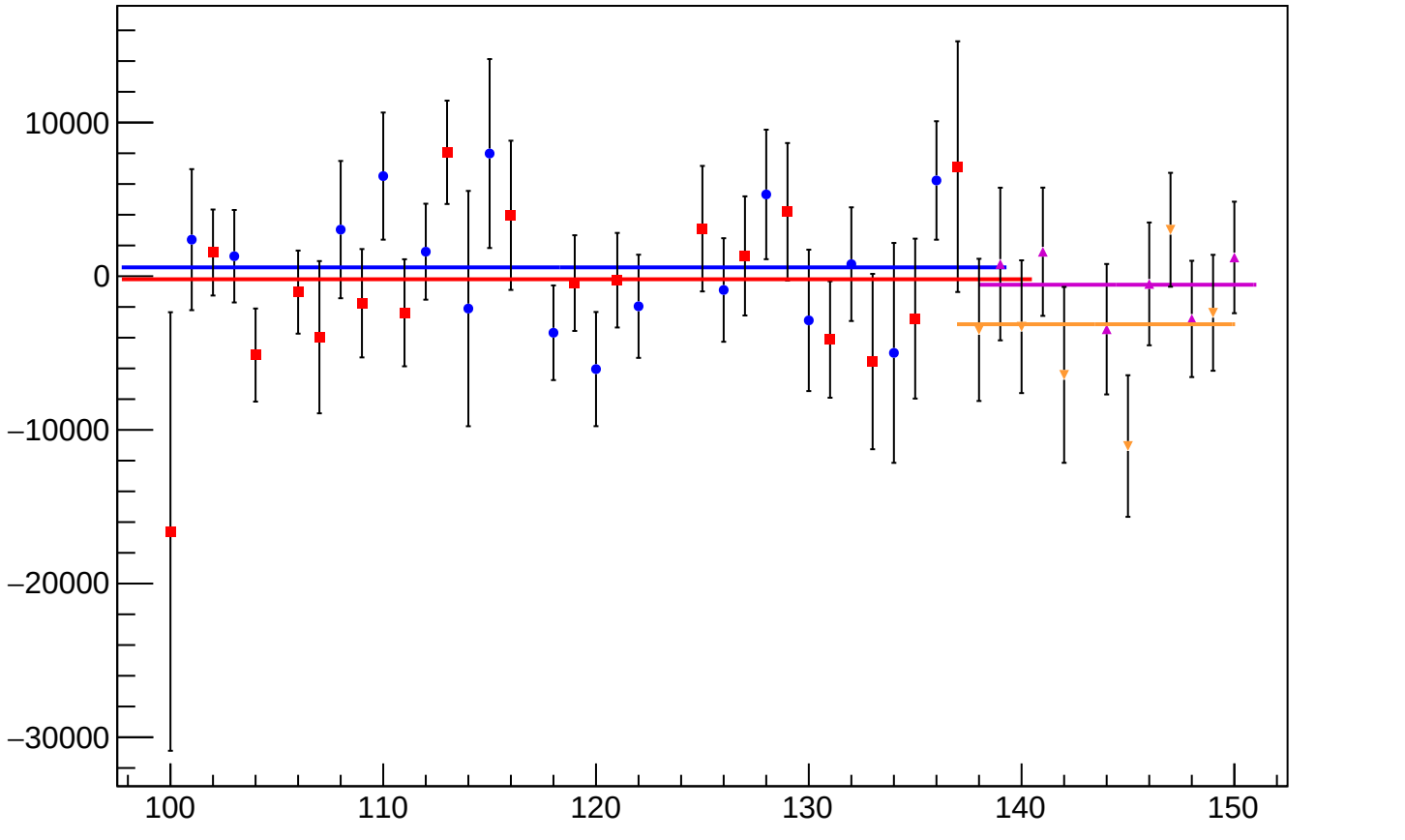
Left: 1274.583+/-0.289 $\chi^2$/NDF: 139914.8/11

Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 976.104+/-0.200 $\chi^2$/NDF:1229464.5/21

Out: 961.378+/-0.204 $\chi^2$/NDF:1097390.8/23

All: 968.865+/-0.143 $\chi^2$/NDF: 2329508.4/45




Right In: 575.271+/-984.888 $\chi^2$/NDF: 14.7/15

Left Out: -3125.061+/-1764.737 $\chi^2$/NDF:6.1/5

Right Out: -197.953+/-894.121 $\chi^2$/NDF: 17.2/17

Left In: -554.391+/-1662.158 $\chi^2$/NDF:1.4/5

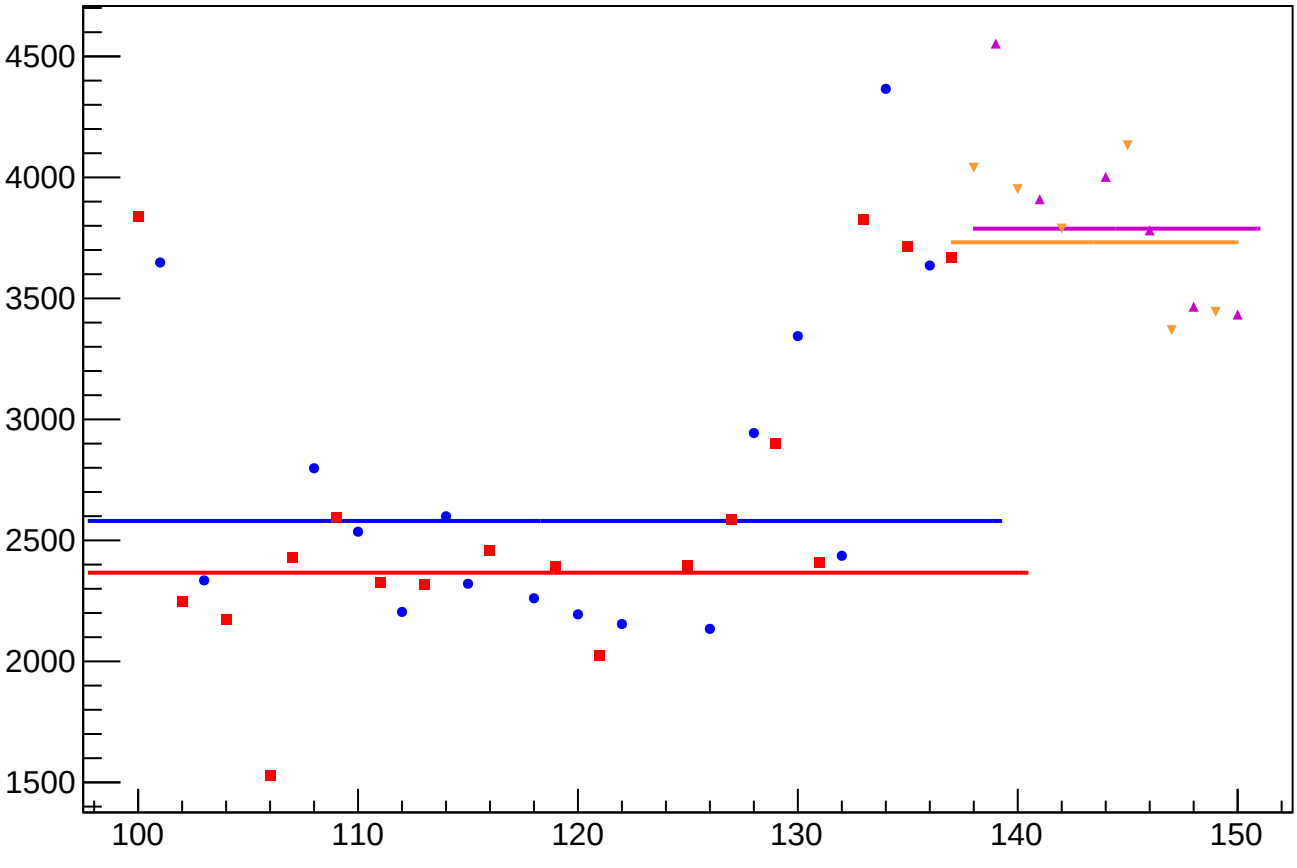
Left: -1762.847+/-1209.963 $\chi^2$/NDF: 8.6/11

Right: 151.395+/-662.008 $\chi^2$/NDF: 32.2/33

In: 281.715+/-847.312 $\chi^2$/NDF:16.4/21

Out: -795.867+/-797.590 $\chi^2$/NDF:25.4/23

All: -289.619+/-580.764 $\chi^2$/NDF: 42.7/45




Right In: 2580.377+/-0.696 $\chi^2$/NDF: 617156.1/15

Left Out: 3732.044+/-1.248 $\chi^2$/NDF:60178.4/5

Right Out: 2366.412+/-0.632 $\chi^2$/NDF: 611695.1/17

Left In: 3788.255+/-1.175 $\chi^2$/NDF:87909.2/5

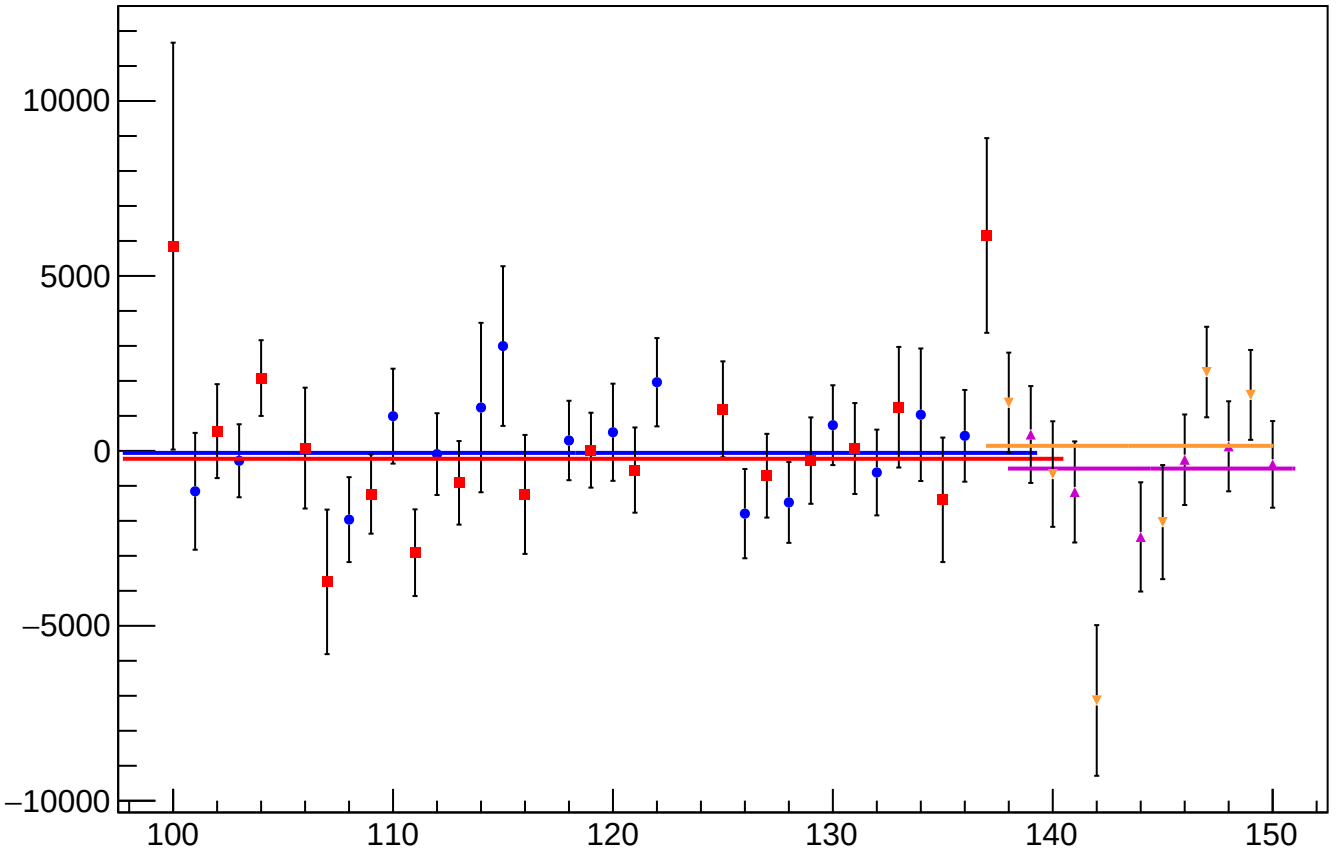
Left: 3761.831+/-0.856 $\chi^2$/NDF: 149162.9/11

Right: 2463.083+/-0.468 $\chi^2$/NDF: 1280596.8/33

In: 2894.258+/-0.599 $\chi^2$/NDF:1486773.6/21

Out: 2645.367+/-0.564 $\chi^2$/NDF:1624899.2/23

All: 2762.296+/-0.411 $\chi^2$/NDF: 3203168.6/45




Right In: -57.211+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: 144.025+/-606.017 $\chi^2$/NDF:18.2/5

Right Out: -226.078+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -505.645+/-553.447 $\chi^2$/NDF:2.6/5

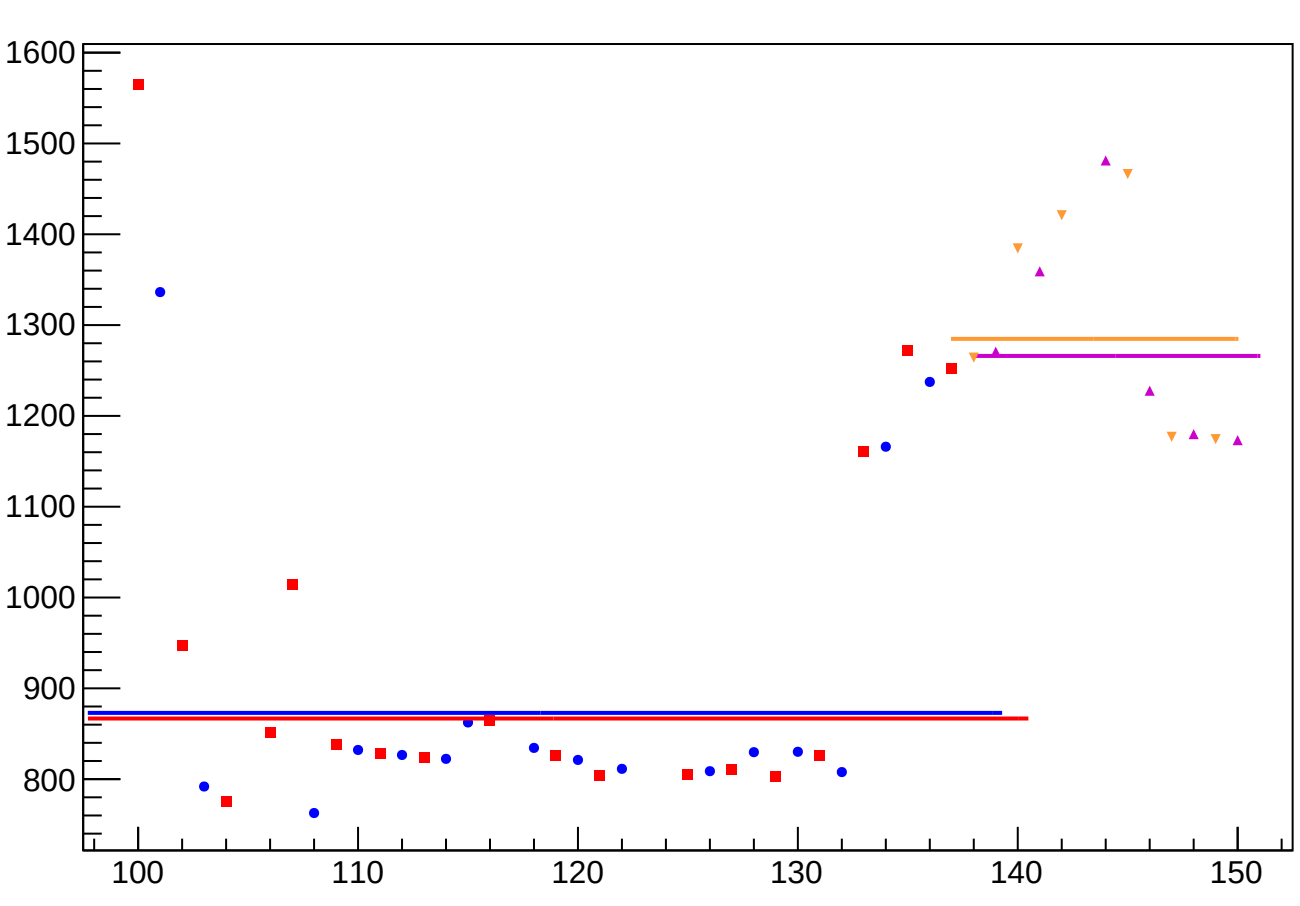
Left: -210.206+/-408.670 $\chi^2$/NDF: 21.4/11

Right: -142.162+/-232.690 $\chi^2$/NDF: 36.0/33

In: -174.873+/-283.495 $\chi^2$/NDF:16.0/21

Out: -142.197+/-288.506 $\chi^2$/NDF:41.4/23

All: -158.821+/-202.210 $\chi^2$/NDF: 57.4/45




Right In: 872.972+/-0.233 $\chi^2$/NDF: 417098.9/15

Left Out: 1284.837+/-0.429 $\chi^2$/NDF:70593.2/5

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.6/17

Left In: 1266.032+/-0.391 $\chi^2$/NDF:68274.1/5

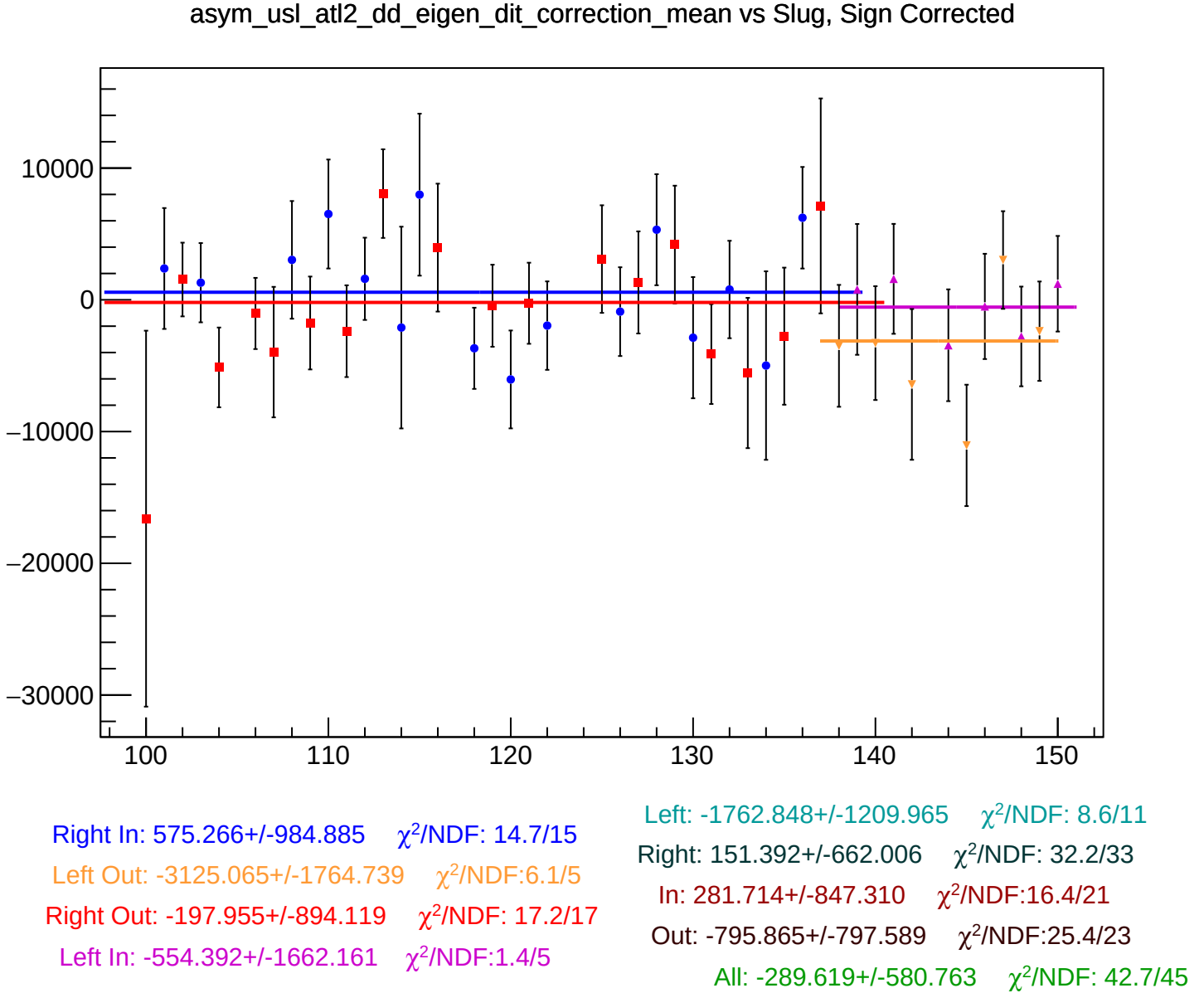
Left: 1274.584+/-0.289 $\chi^2$/NDF: 139917.2/11

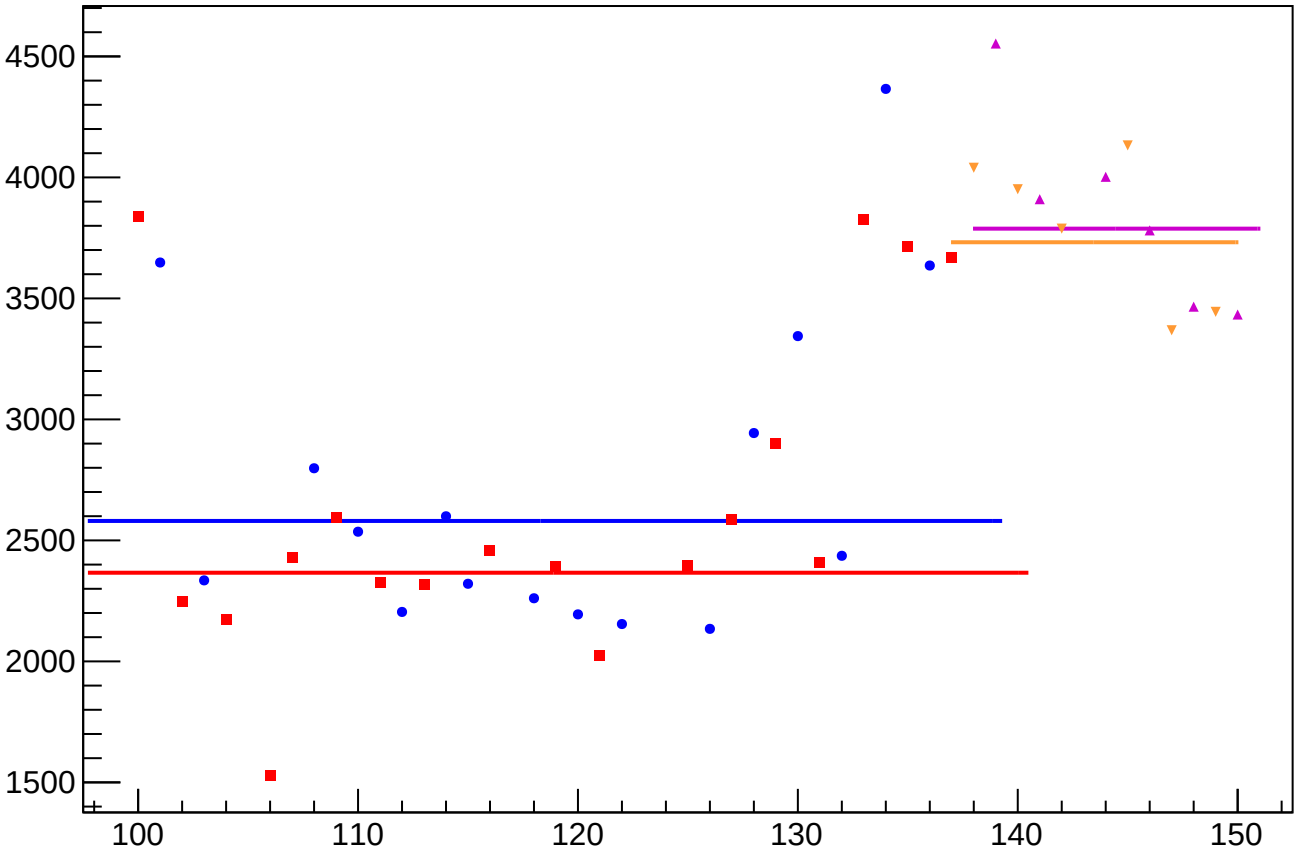
Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 976.105+/-0.200 $\chi^2$/NDF:1229467.1/21

Out: 961.378+/-0.204 $\chi^2$/NDF:1097394.0/23

All: 968.865+/-0.143 $\chi^2$/NDF: 2329514.2/45


asym_usl_atl2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
Right In: 575.266+/-984.885 χ²/NDF: 14.7/15
Left Out: -3125.065+/-1764.739 χ²/NDF:6.1/5
Right Out: -197.955+/-894.119 χ²/NDF: 17.2/17
Left In: -554.392+/-1662.161 χ²/NDF:1.4/5
Left: -1762.848+/-1209.965 χ²/NDF: 8.6/11
Right: 151.392+/-662.006 χ²/NDF: 32.2/33
In: 281.714+/-847.310 χ²/NDF:16.4/21
Out: -795.865+/-797.589 χ²/NDF:25.4/23
All: -289.619+/-580.763 χ²/NDF: 42.7/45




Right In: 2580.368+/-0.696 $\chi^2$/NDF: 617163.3/15

Left Out: 3732.050+/-1.248 $\chi^2$/NDF:60180.6/5

Right Out: 2366.405+/-0.632 $\chi^2$/NDF: 611698.8/17

Left In: 3788.260+/-1.175 $\chi^2$/NDF:87911.8/5

Left: 3761.836+/-0.856 $\chi^2$/NDF: 149167.6/11

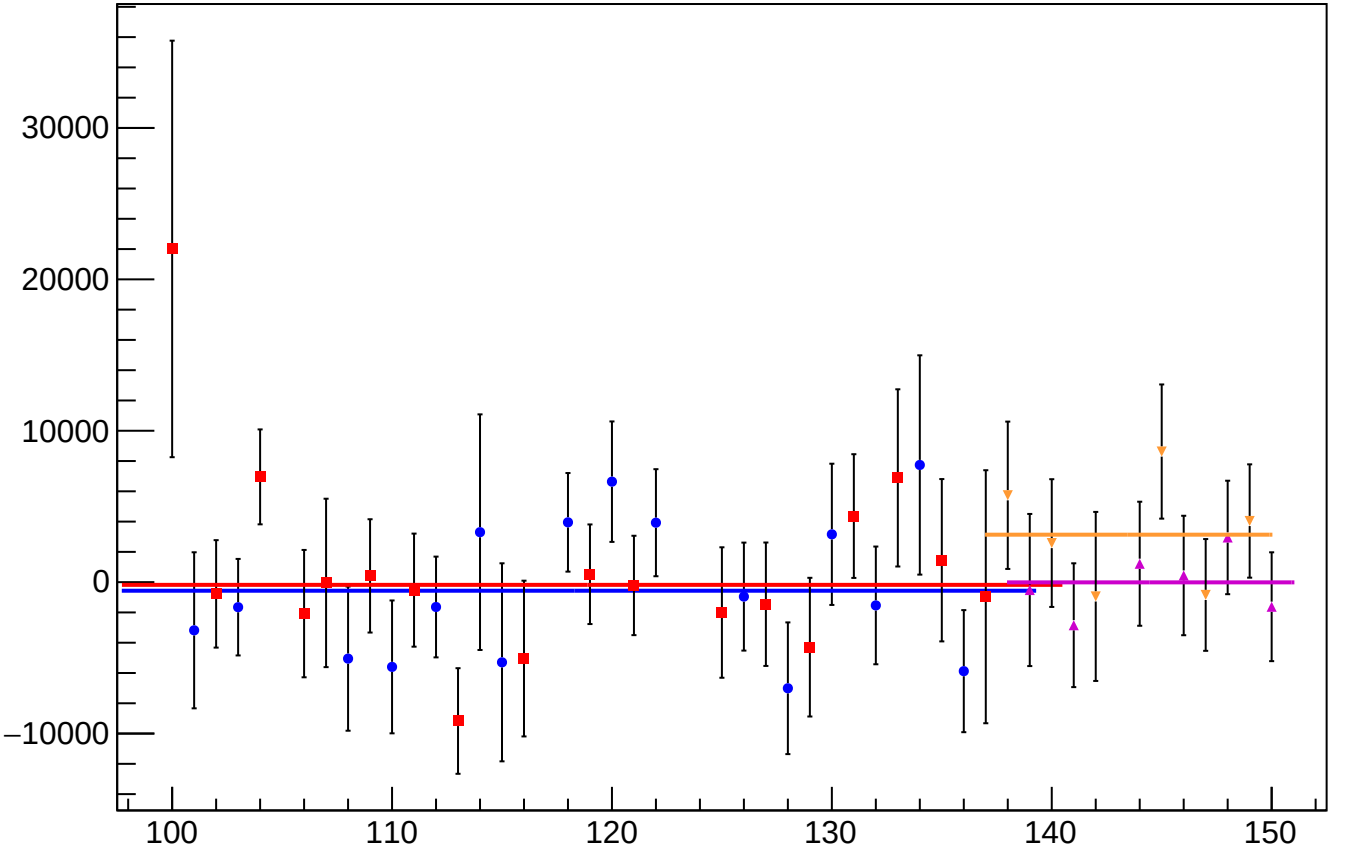
Right: 2463.075+/-0.468 $\chi^2$/NDF: 1280607.2/33

In: 2894.251+/-0.599 $\chi^2$/NDF:1486799.4/21

Out: 2645.361+/-0.564 $\chi^2$/NDF:1624920.8/23

All: 2762.289+/-0.411 $\chi^2$/NDF: 3203215.7/45

# asym_usl_atl2_dd_mean vs Slug, Sign Corrected




Right In: -566.096+/-1040.314 $\chi^2$/NDF: 16.2/15

Left Out: 3135.529+/-1750.842 $\chi^2$/NDF:3.6/5

Right Out: -178.586+/-988.392 $\chi^2$/NDF: 19.5/17

Left In: -14.095+/-1639.889 $\chi^2$/NDF:1.4/5

Left: 1457.764+/-1196.880 $\chi^2$/NDF: 6.7/11

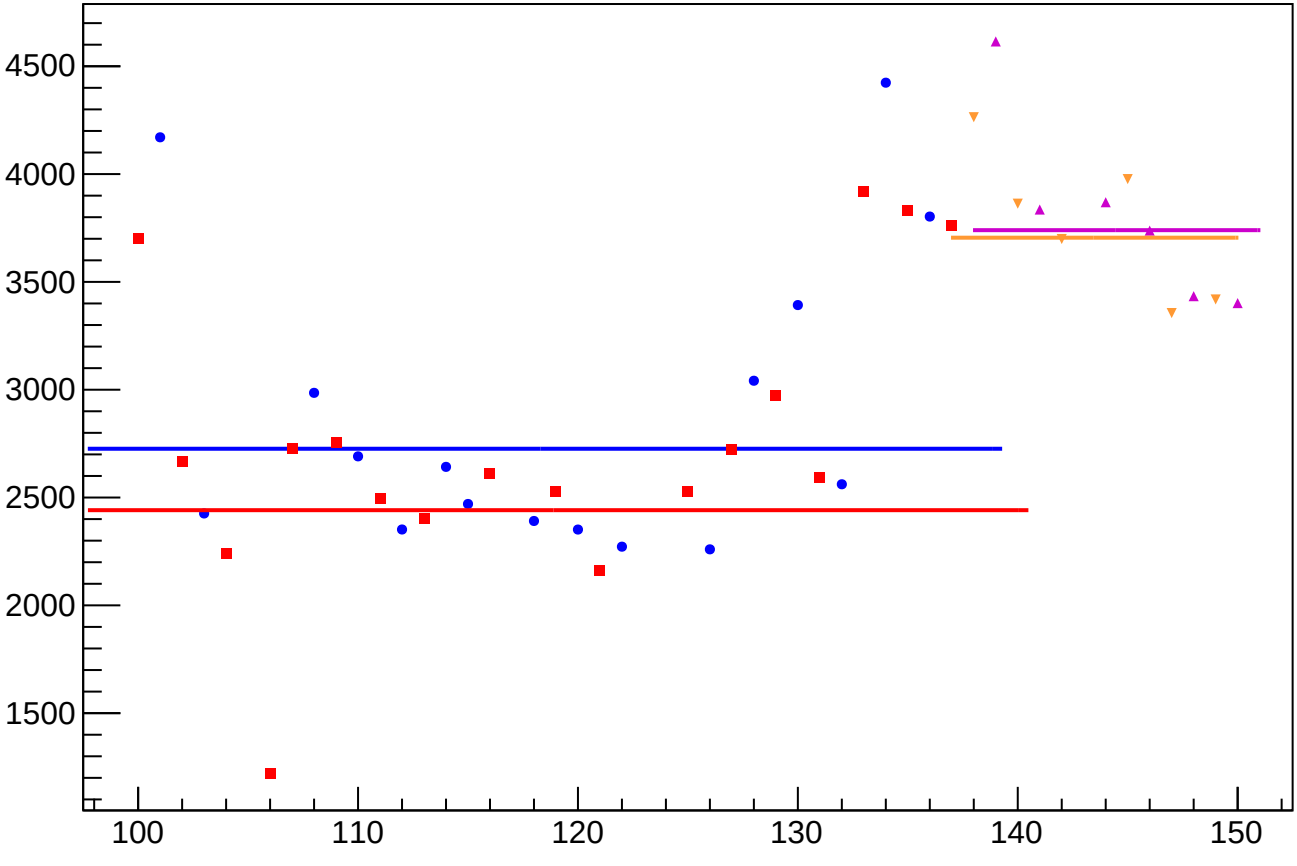
Right: -362.430+/-716.551 $\chi^2$/NDF: 35.8/33

In: -407.696+/-878.461 $\chi^2$/NDF:17.7/21

Out: 622.337+/-860.713 $\chi^2$/NDF:25.8/23

All: 117.830+/-614.795 $\chi^2$/NDF: 44.2/45

# asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 2726.231+/-0.736 $\chi^2$/NDF: 623079.8/15

Left Out: 3705.013+/-1.238 $\chi^2$/NDF:66324.6/5

Right Out: 2441.363+/-0.667 $\chi^2$/NDF: 891132.7/17

Left In: 3739.919+/-1.160 $\chi^2$/NDF:94836.7/5

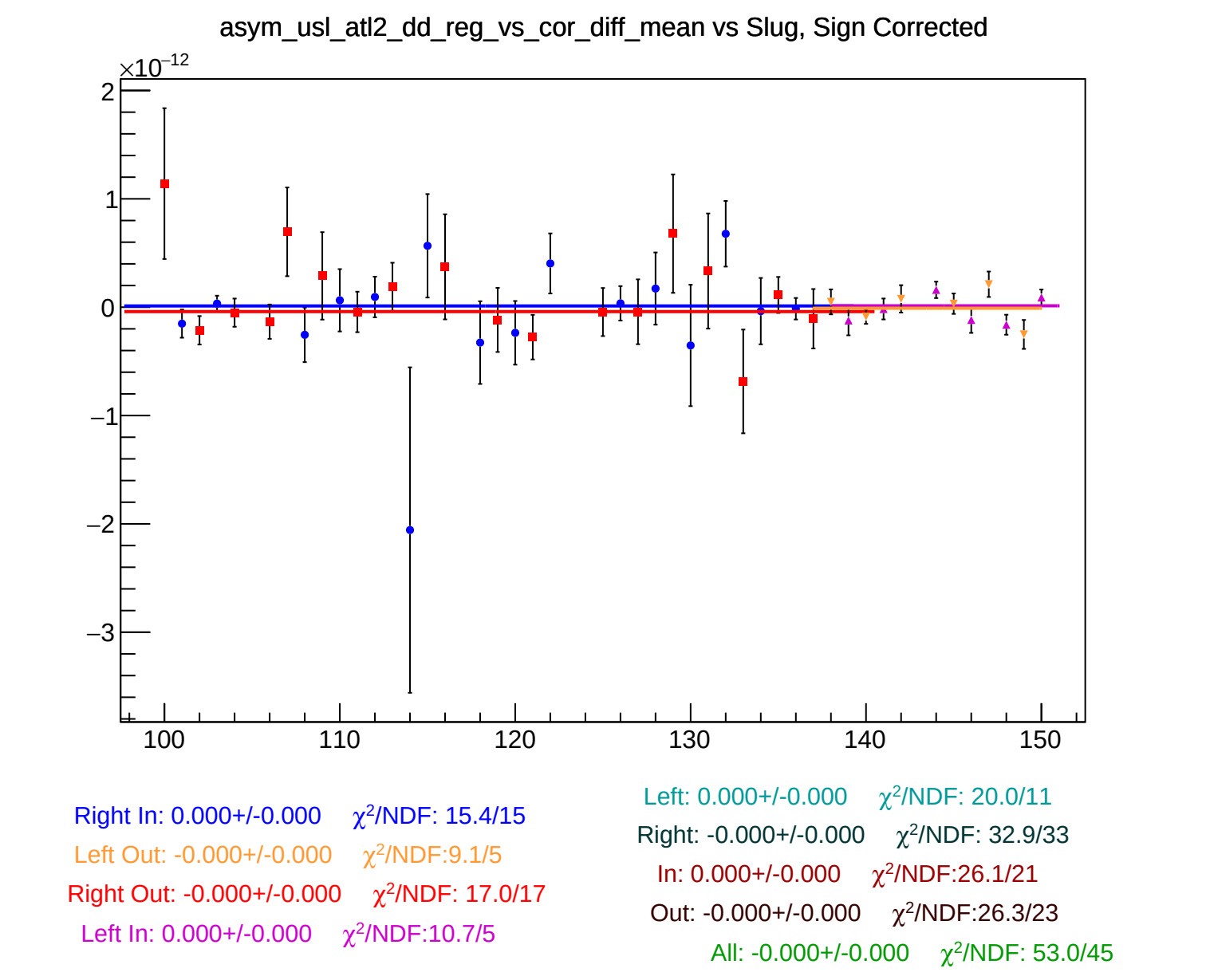
Left: 3723.607+/-0.846 $\chi^2$/NDF: 161584.7/11

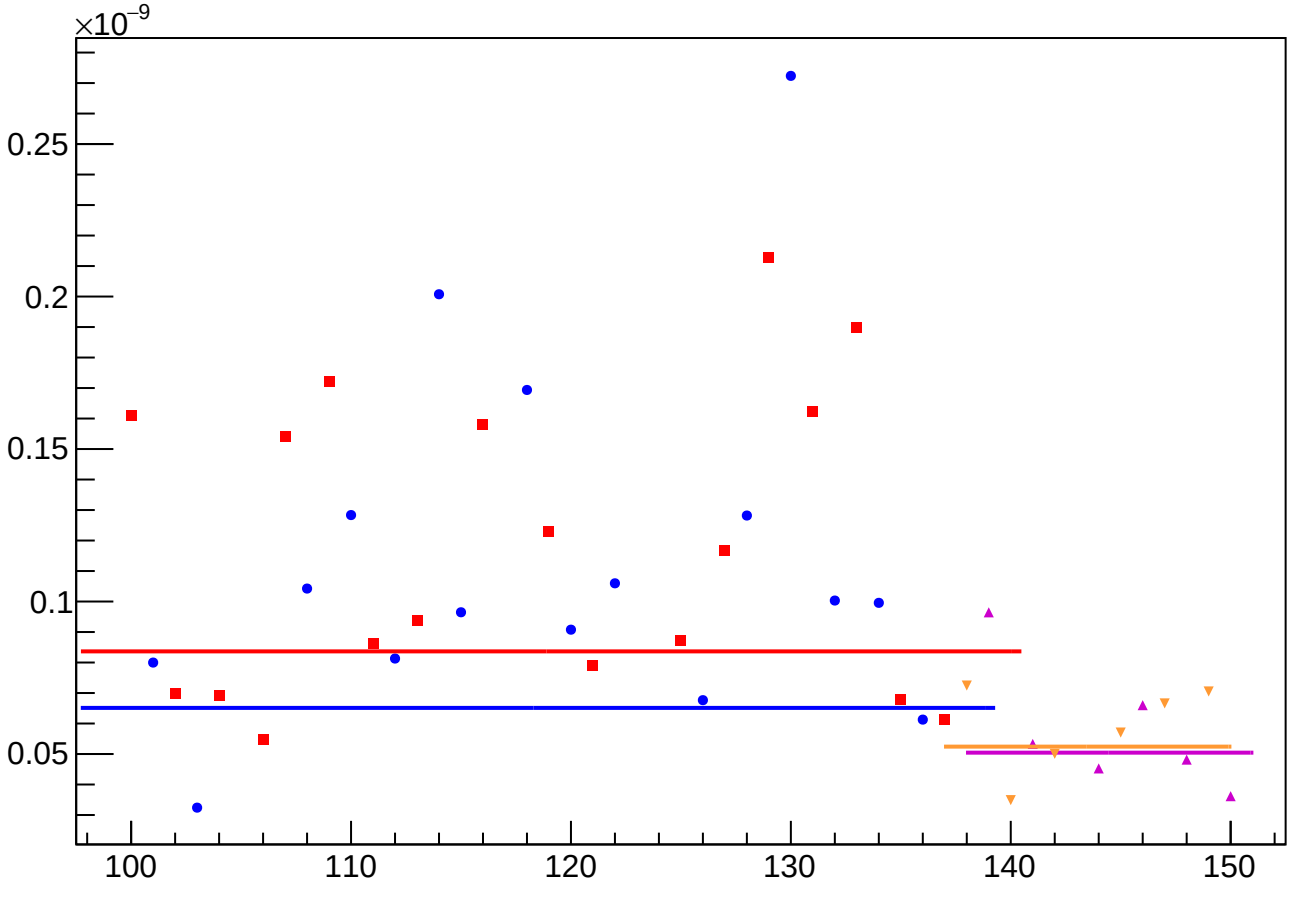
Right: 2569.883+/-0.494 $\chi^2$/NDF: 1596520.0/33

In: 3017.115+/-0.621 $\chi^2$/NDF:1262828.3/21

Out: 2725.598+/-0.587 $\chi^2$/NDF:1764933.9/23

All: 2863.159+/-0.427 $\chi^2$/NDF: 3144079.6/45


asym_usl_atl2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 15.4/15
Left Out: -0.000+/-0.000 χ²/NDF:9.1/5
Right Out: -0.000+/-0.000 χ²/NDF: 17.0/17
Left In: 0.000+/-0.000 χ²/NDF:10.7/5
Left: 0.000+/-0.000 χ²/NDF: 20.0/11
Right: -0.000+/-0.000 χ²/NDF: 32.9/33
In: 0.000+/-0.000 χ²/NDF:26.1/21
Out: -0.000+/-0.000 χ²/NDF:26.3/23
All: -0.000+/-0.000 χ²/NDF: 53.0/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1222613.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:269306.4/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 691494.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:346685.5/5

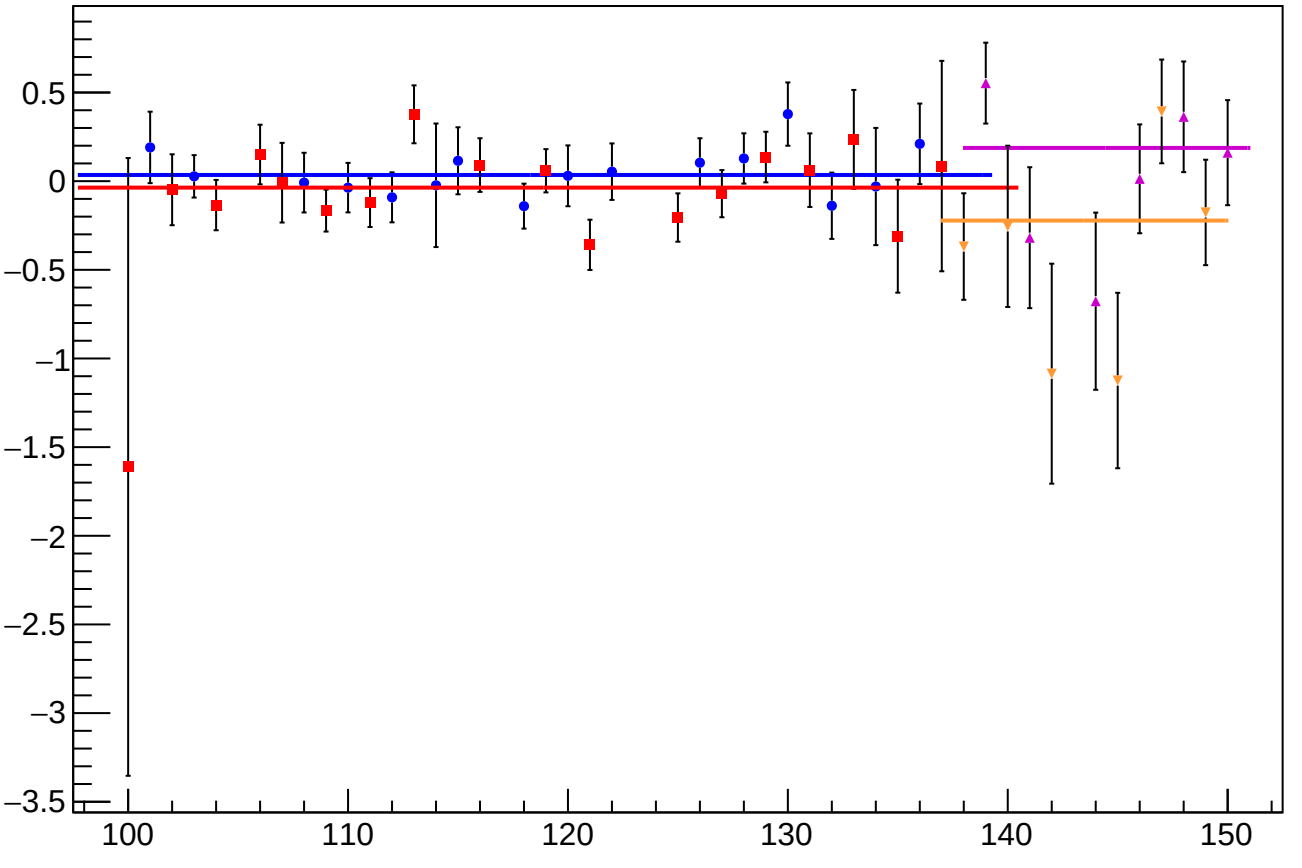
Left: 0.000+/-0.000 $\chi^2$/NDF: 618542.8/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 2057625.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1697859.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:1393993.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 3149111.2/45




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.222+/-0.148 $\chi^2$/NDF:10.0/5

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.187+/-0.127 $\chi^2$/NDF:7.8/5

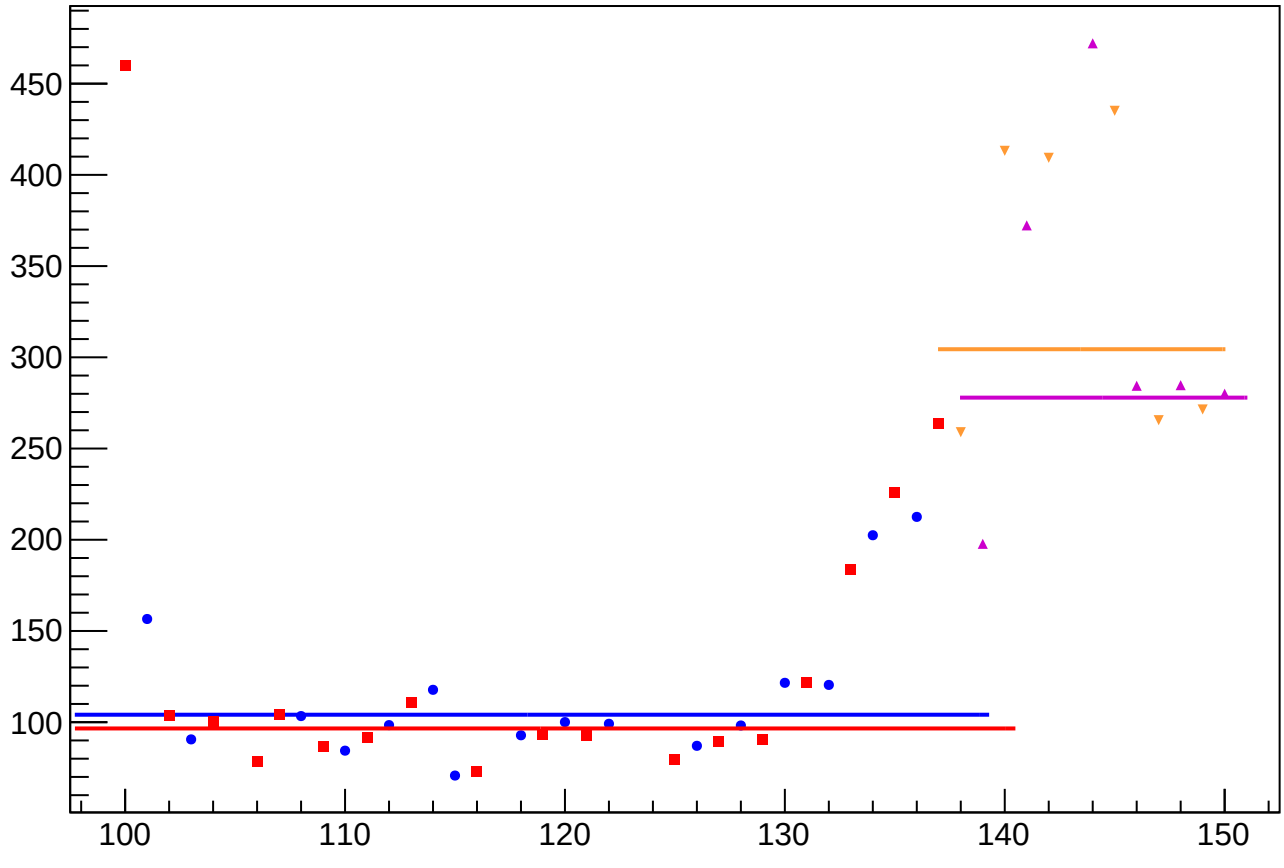
Left: 0.014+/-0.096 $\chi^2$/NDF: 22.2/11

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.049+/-0.039 $\chi^2$/NDF:18.9/21

Out: -0.048+/-0.038 $\chi^2$/NDF:33.5/23

All: -0.001+/-0.027 $\chi^2$/NDF: 55.6/45




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 304.433+/-0.105 $\chi^2$/NDF:417042.2/5

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 277.901+/-0.090 $\chi^2$/NDF:663792.3/5

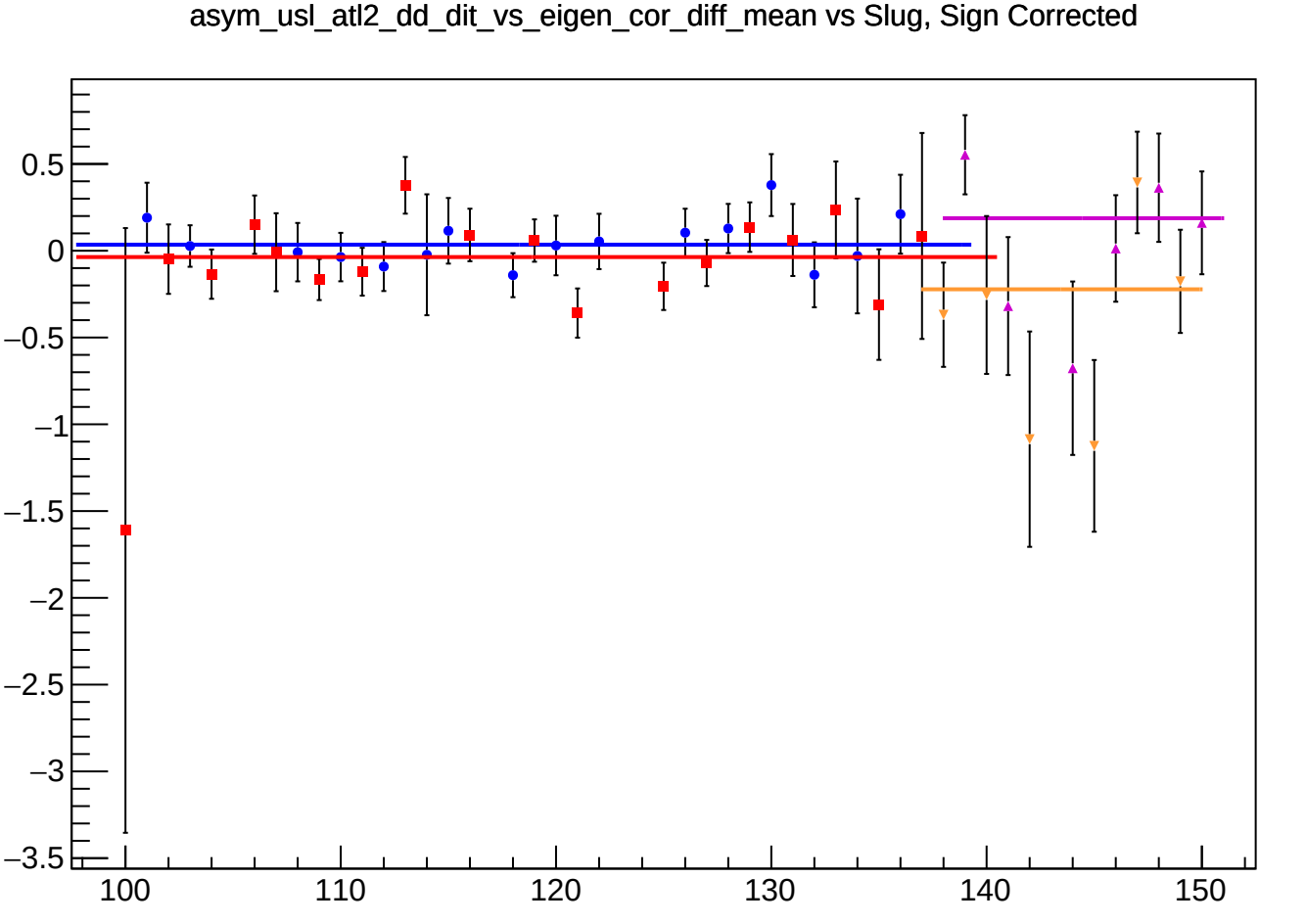
Left: 289.163+/-0.068 $\chi^2$/NDF: 1117789.5/11

Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

In: 120.487+/-0.028 $\chi^2$/NDF:5037311.7/21

Out: 109.989+/-0.027 $\chi^2$/NDF:5059379.8/23

All: 115.043+/-0.019 $\chi^2$/NDF: 10171660.9/45




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.222+/-0.148 $\chi^2$/NDF:10.0/5

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.187+/-0.127 $\chi^2$/NDF:7.8/5

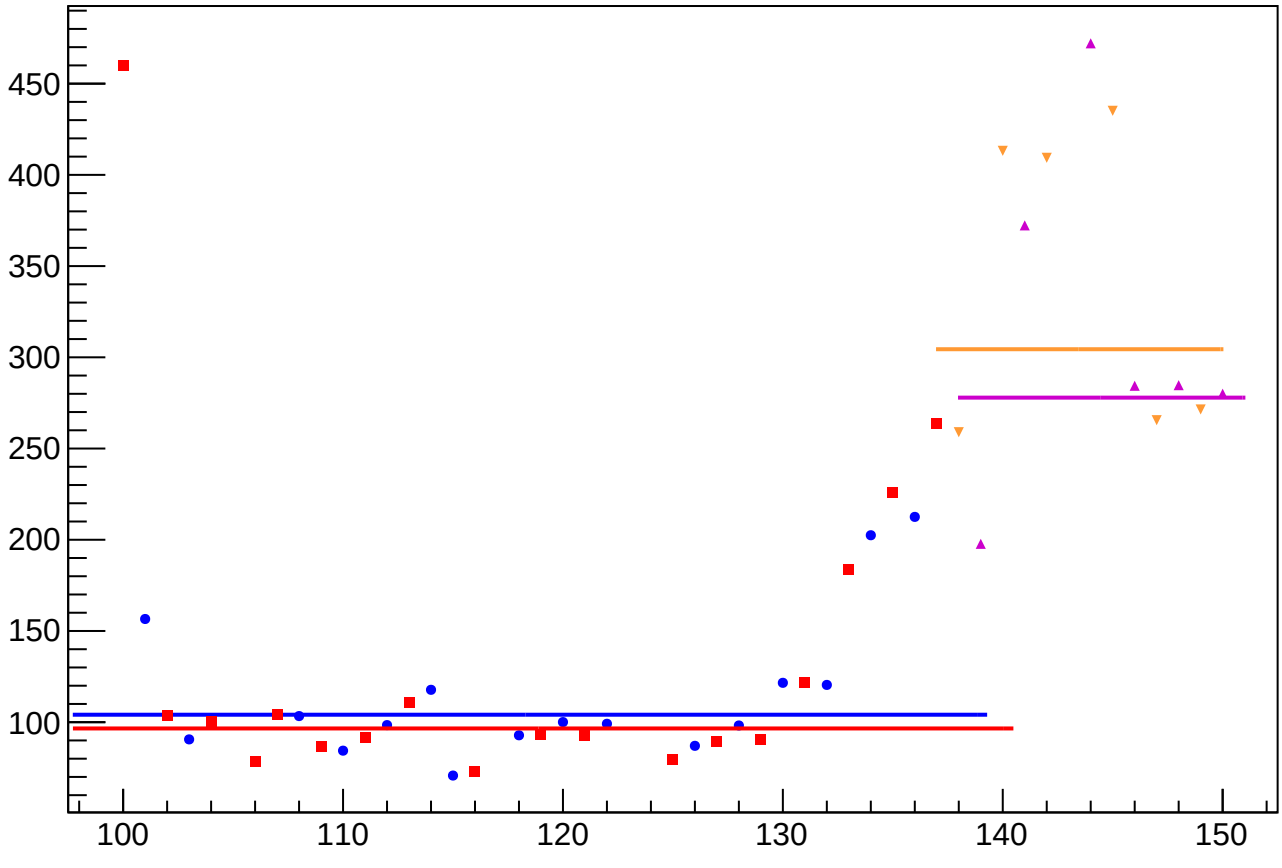
Left: 0.014+/-0.096 $\chi^2$/NDF: 22.2/11

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.049+/-0.039 $\chi^2$/NDF:18.9/21

Out: -0.048+/-0.038 $\chi^2$/NDF:33.5/23

All: -0.001+/-0.027 $\chi^2$/NDF: 55.6/45




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 304.433+/-0.105 $\chi^2$/NDF:417042.2/5

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 277.901+/-0.090 $\chi^2$/NDF:663792.3/5

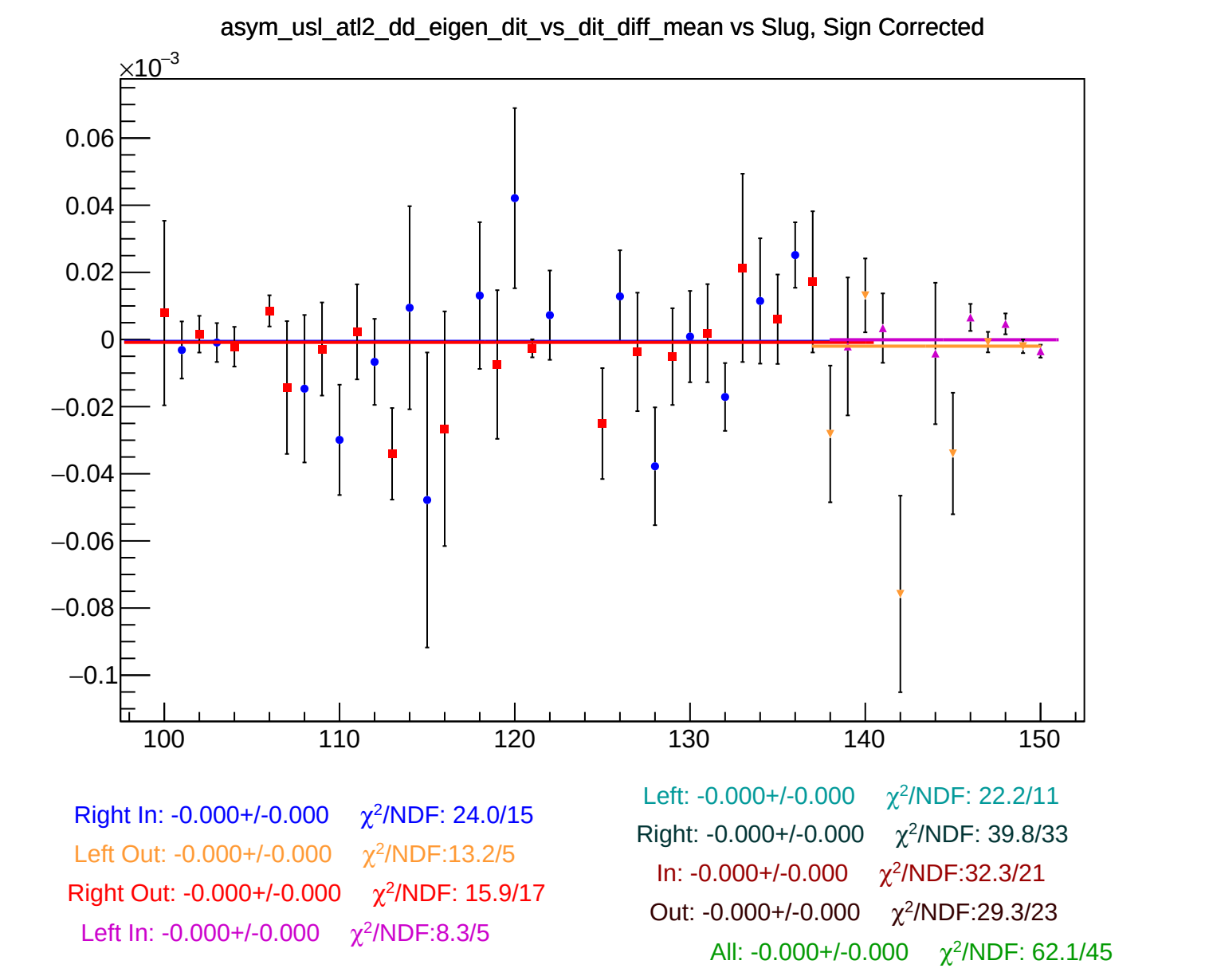
Left: 289.163+/-0.068 $\chi^2$/NDF: 1117789.5/11

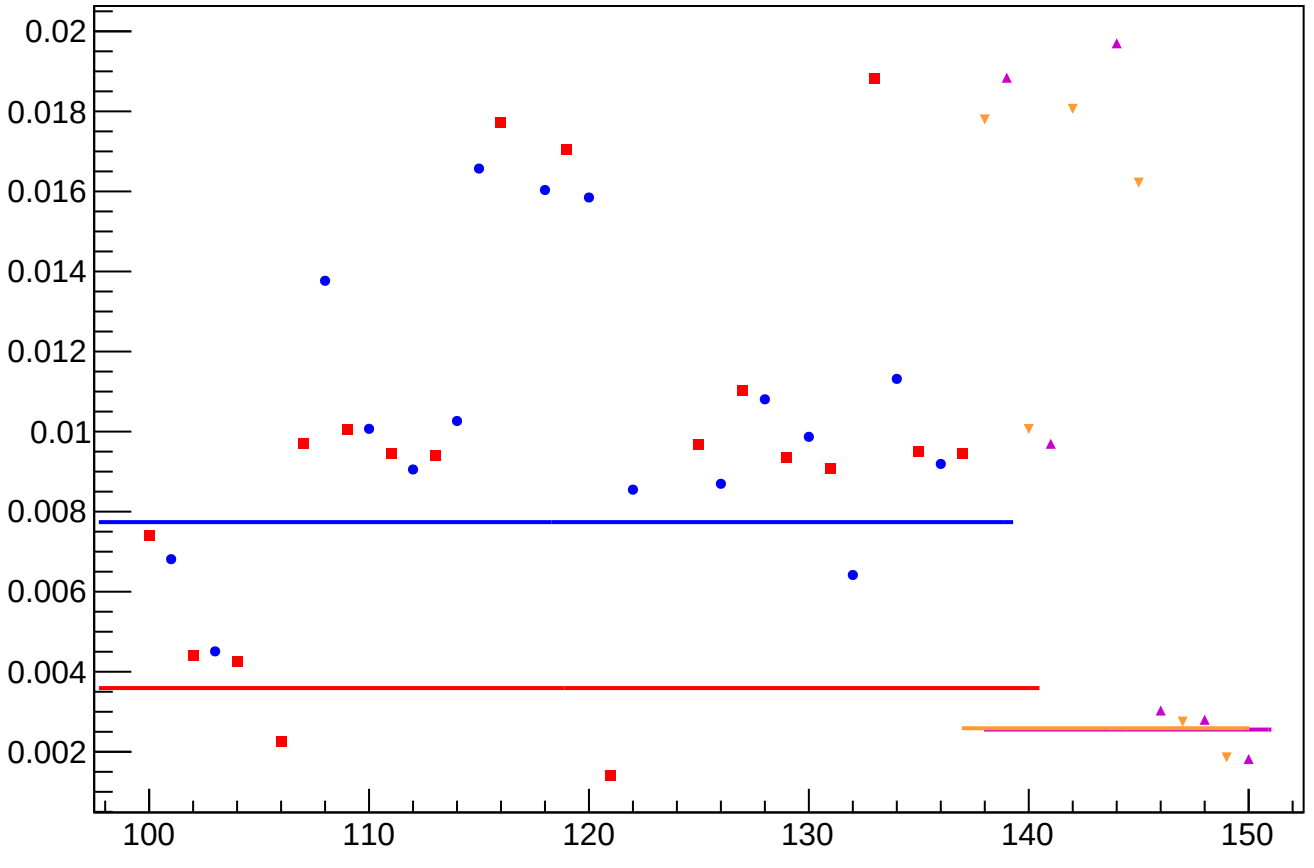
Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

In: 120.487+/-0.028 $\chi^2$/NDF:5037311.7/21

Out: 109.989+/-0.027 $\chi^2$/NDF:5059379.8/23

All: 115.043+/-0.019 $\chi^2$/NDF: 10171660.9/45


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 24.0/15
Left Out: -0.000+/-0.000 χ²/NDF:13.2/5
Right Out: -0.000+/-0.000 χ²/NDF: 15.9/17
Left In: -0.000+/-0.000 χ²/NDF:8.3/5
Left: -0.000+/-0.000 χ²/NDF: 22.2/11
Right: -0.000+/-0.000 χ²/NDF: 39.8/33
In: -0.000+/-0.000 χ²/NDF:32.3/21
Out: -0.000+/-0.000 χ²/NDF:29.3/23
All: -0.000+/-0.000 χ²/NDF: 62.1/45




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1701473.5/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3993507.4/5

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 6364883.4/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:3868898.7/5

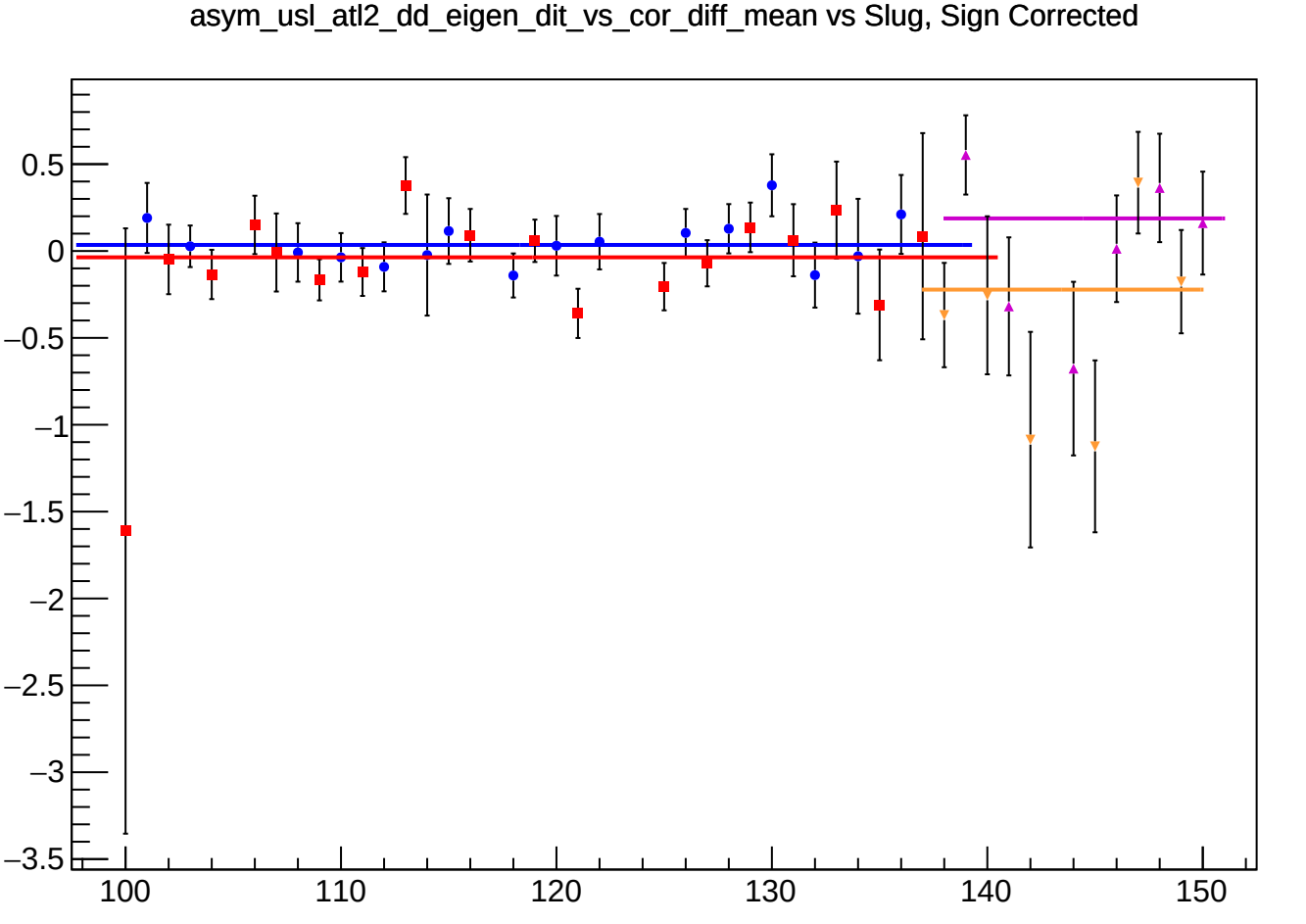
Left: 0.003+/-0.000 $\chi^2$/NDF: 7862833.0/11

Right: 0.005+/-0.000 $\chi^2$/NDF: 10695382.9/33

In: 0.004+/-0.000 $\chi^2$/NDF:10081726.9/21

Out: 0.003+/-0.000 $\chi^2$/NDF:10686558.5/23

All: 0.003+/-0.000 $\chi^2$/NDF: 20910021.0/45




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.222+/-0.148 $\chi^2$/NDF:10.0/5

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.187+/-0.127 $\chi^2$/NDF:7.8/5

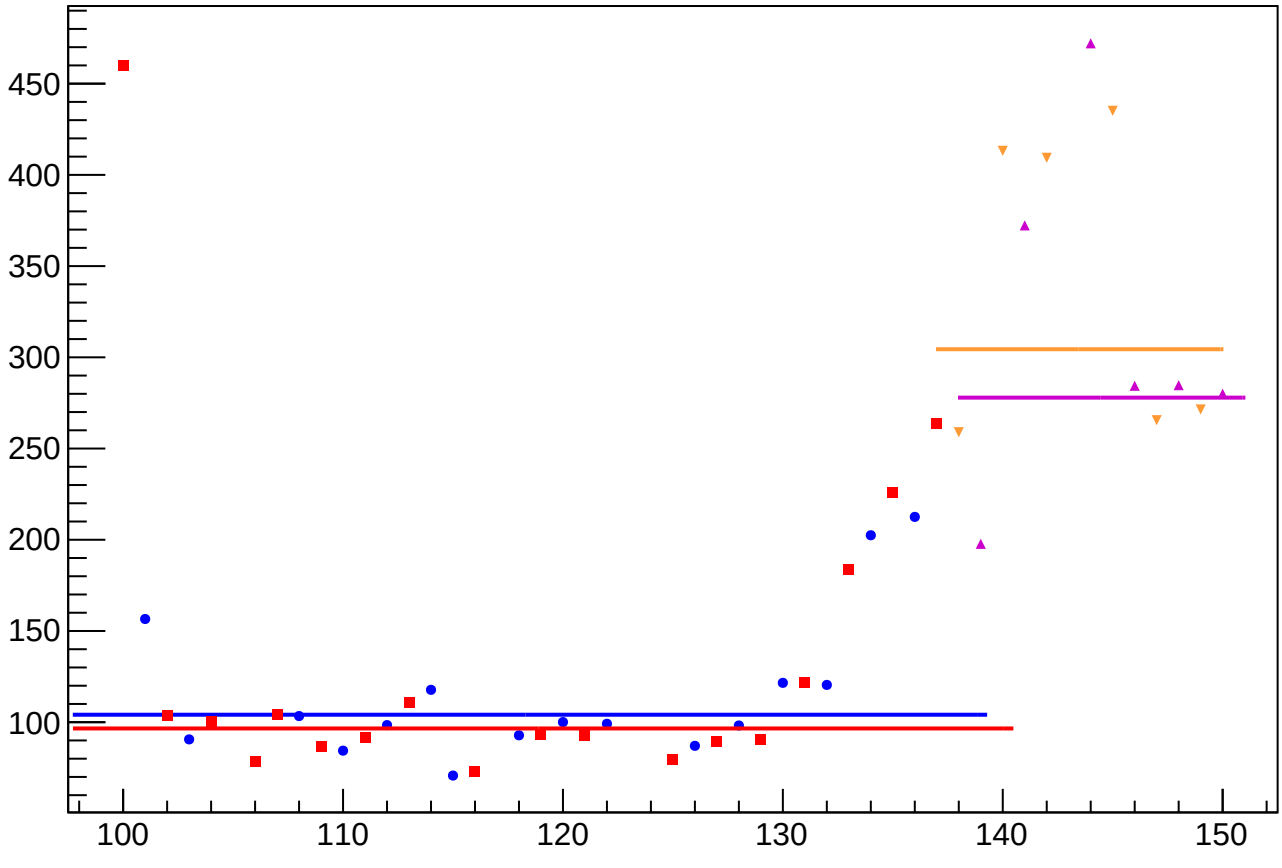
Left: 0.014+/-0.096 $\chi^2$/NDF: 22.2/11

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.049+/-0.039 $\chi^2$/NDF:18.9/21

Out: -0.048+/-0.038 $\chi^2$/NDF:33.5/23

All: -0.001+/-0.027 $\chi^2$/NDF: 55.6/45




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 304.434+/-0.105 $\chi^2$/NDF:417071.9/5

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 277.905+/-0.090 $\chi^2$/NDF:663767.8/5

Left: 289.166+/-0.068 $\chi^2$/NDF: 1117788.1/11

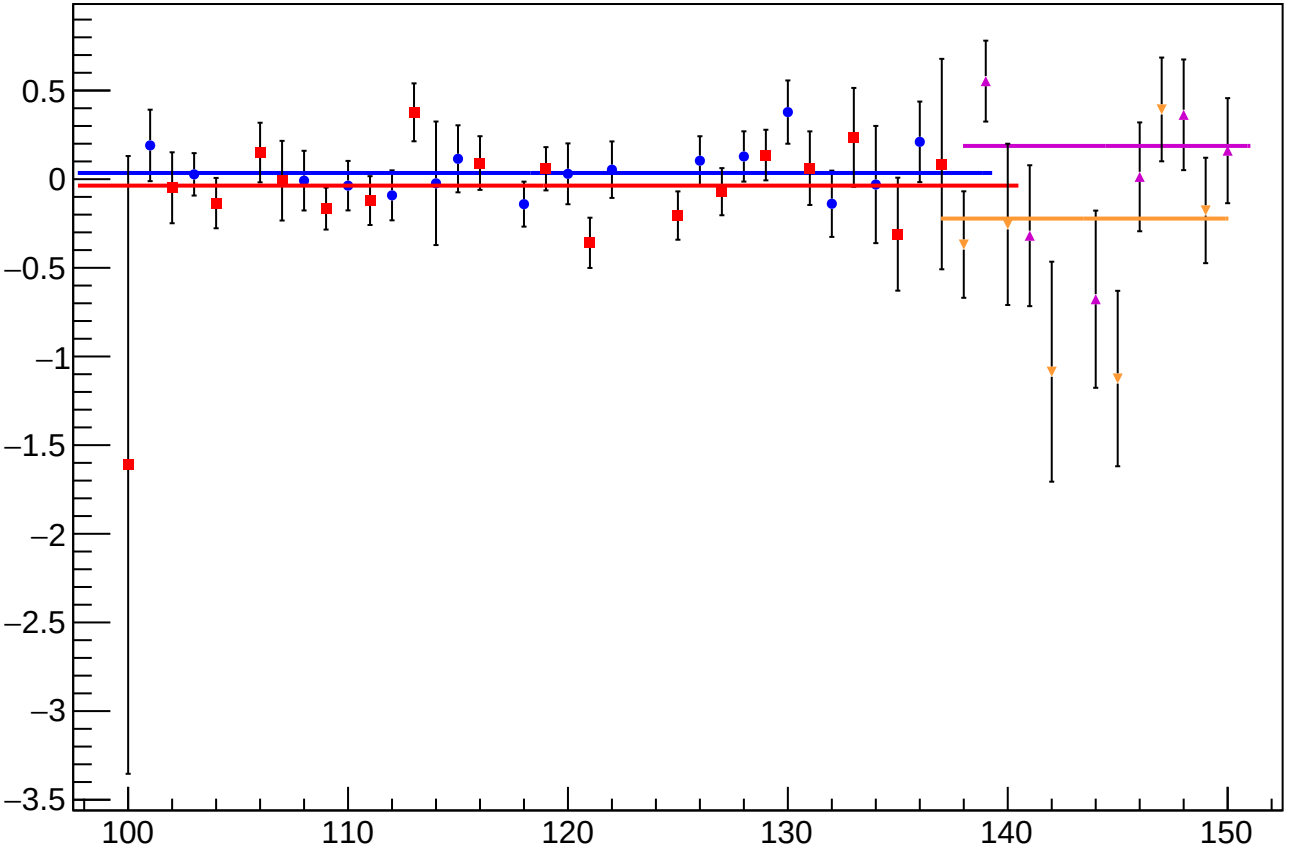
Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 120.488+/-0.028 $\chi^2$/NDF:5037269.8/21

Out: 109.990+/-0.027 $\chi^2$/NDF:5059298.7/23

All: 115.044+/-0.019 $\chi^2$/NDF: 10171530.4/45

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.222+/-0.148 $\chi^2$/NDF:10.0/5

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.187+/-0.127 $\chi^2$/NDF:7.8/5

Left: 0.014+/-0.096 $\chi^2$/NDF: 22.2/11

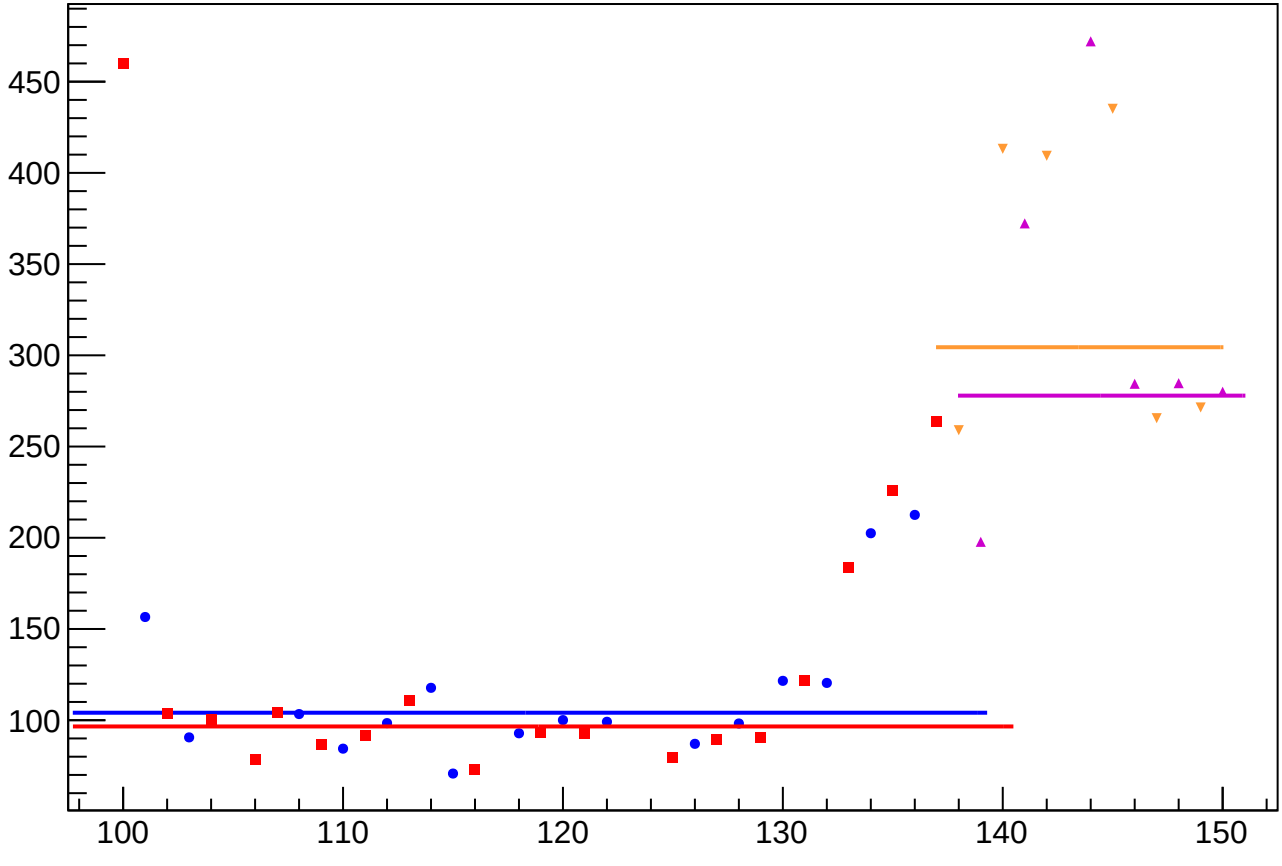
Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.049+/-0.039 $\chi^2$/NDF:18.9/21

Out: -0.048+/-0.038 $\chi^2$/NDF:33.5/23

All: -0.001+/-0.027 $\chi^2$/NDF: 55.6/45

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 304.434+/-0.105 $\chi^2$/NDF:417071.9/5

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 277.905+/-0.090 $\chi^2$/NDF:663767.8/5

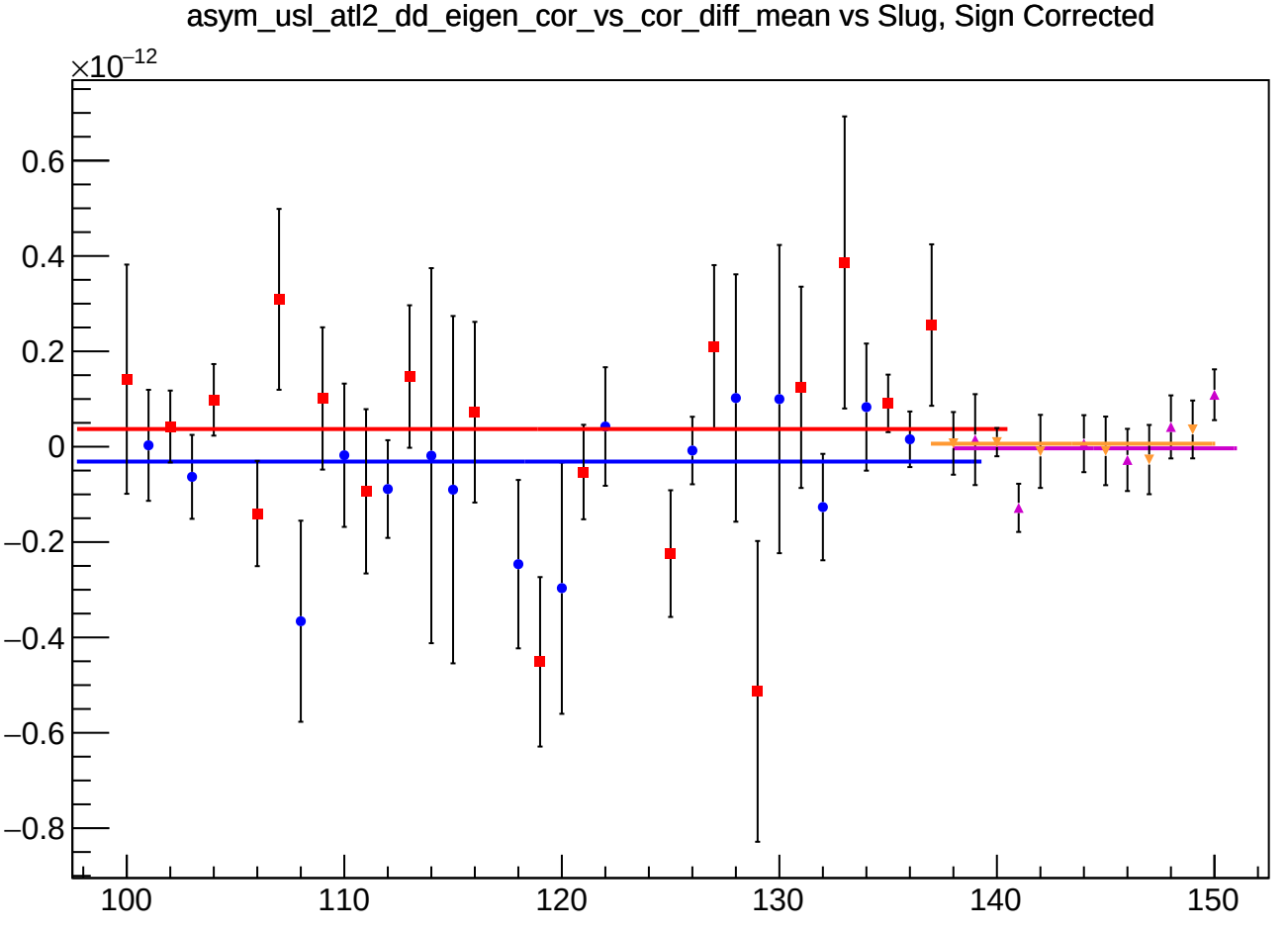
Left: 289.166+/-0.068 $\chi^2$/NDF: 1117788.1/11

Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 120.488+/-0.028 $\chi^2$/NDF:5037269.8/21

Out: 109.990+/-0.027 $\chi^2$/NDF:5059298.7/23

All: 115.044+/-0.019 $\chi^2$/NDF: 10171530.4/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.6/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.2/5

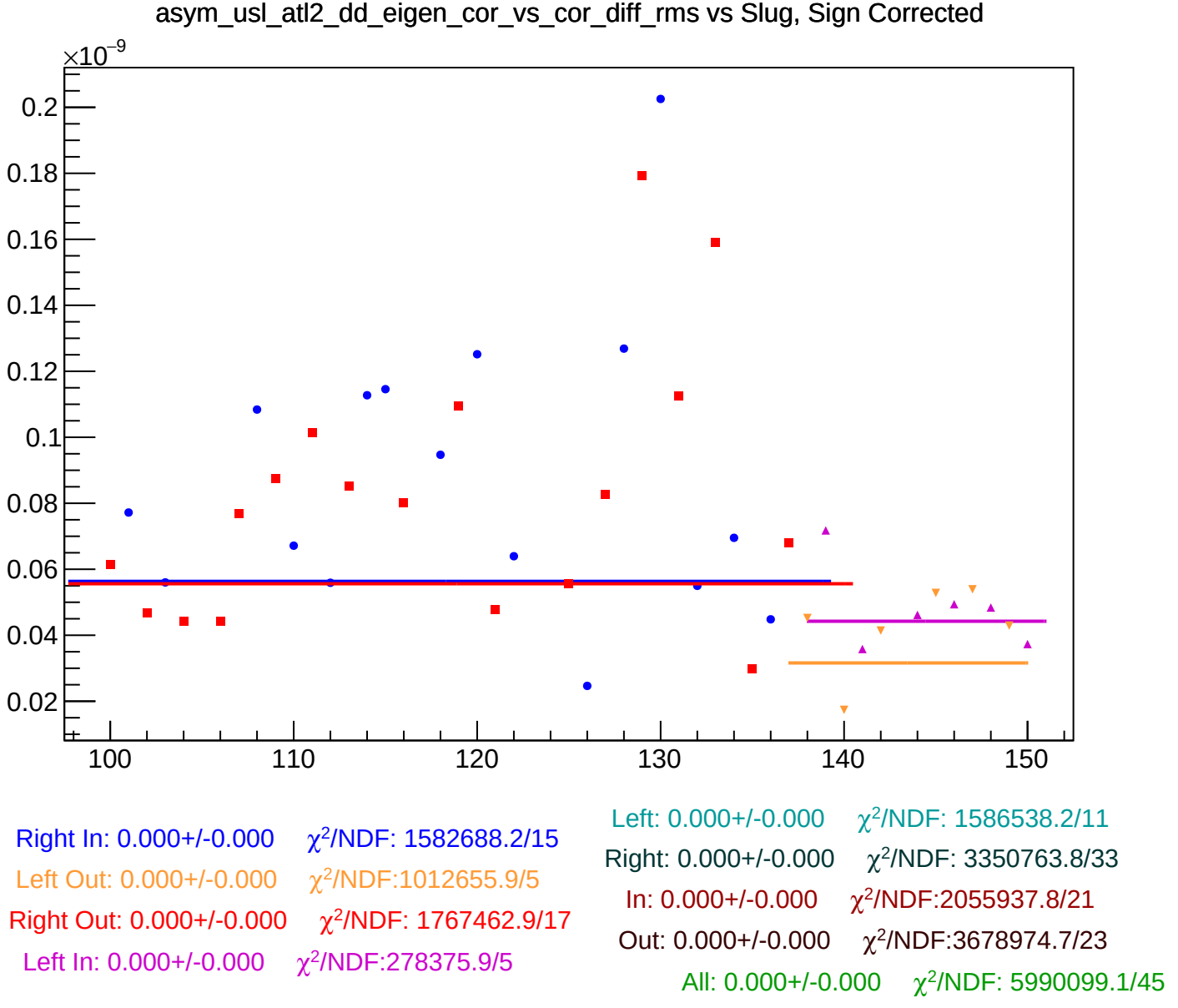
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.9/11

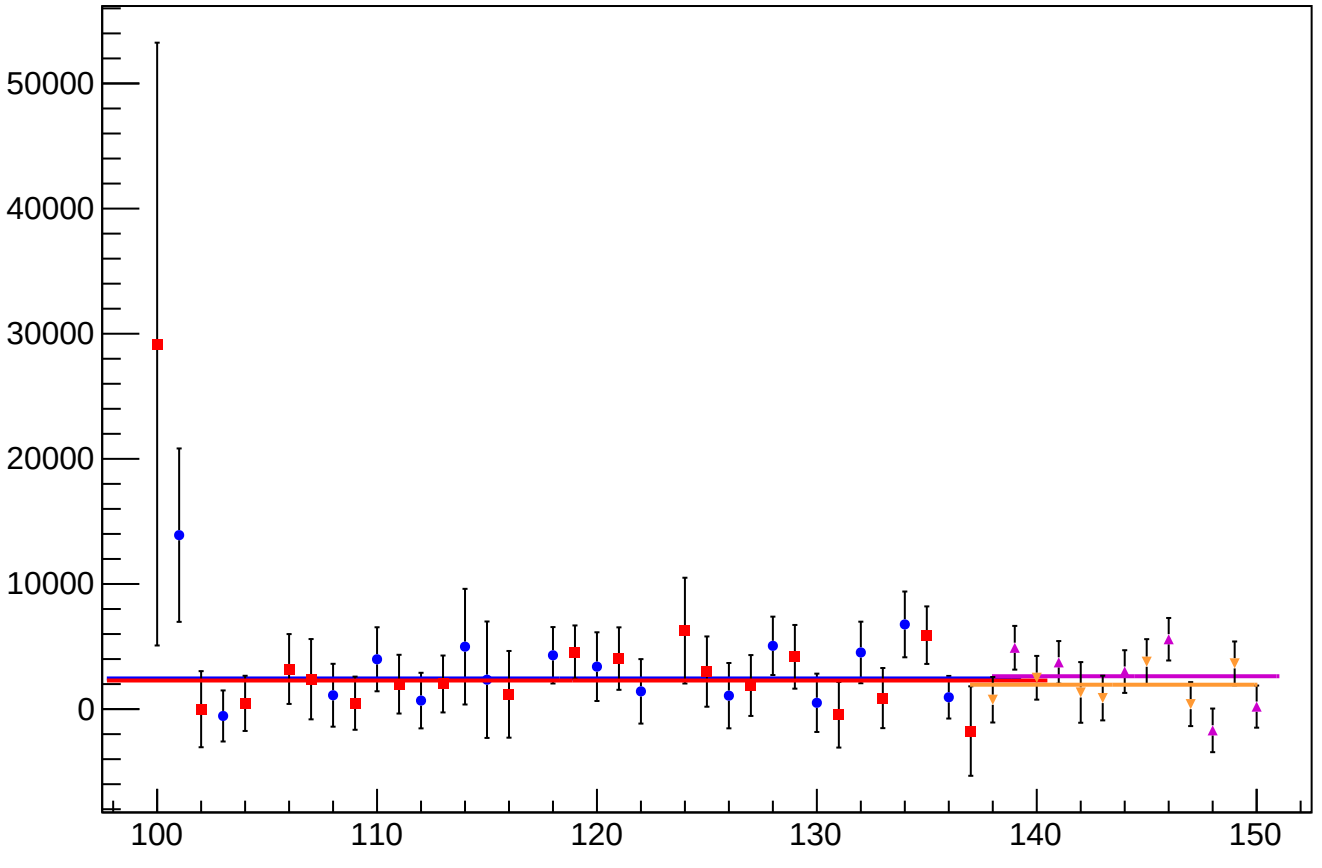
Right: 0.000+/-0.000 $\chi^2$/NDF: 38.4/33

In: -0.000+/-0.000 $\chi^2$/NDF:20.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:28.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 50.2/45


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1582688.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1012655.9/5
Right Out: 0.000+/-0.000 χ²/NDF: 1767462.9/17
Left In: 0.000+/-0.000 χ²/NDF:278375.9/5
Left: 0.000+/-0.000 χ²/NDF: 1586538.2/11
Right: 0.000+/-0.000 χ²/NDF: 3350763.8/33
In: 0.000+/-0.000 χ²/NDF:2055937.8/21
Out: 0.000+/-0.000 χ²/NDF:3678974.7/23
All: 0.000+/-0.000 χ²/NDF: 5990099.1/45




Right In: 2449.957+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1949.594+/-694.575 $\chi^2$/NDF:3.7/6

Right Out: 2286.573+/-609.157 $\chi^2$/NDF: 11.8/18

Left In: 2627.140+/-699.409 $\chi^2$/NDF:13.4/5

Left: 2286.017+/-492.839 $\chi^2$/NDF: 17.6/12

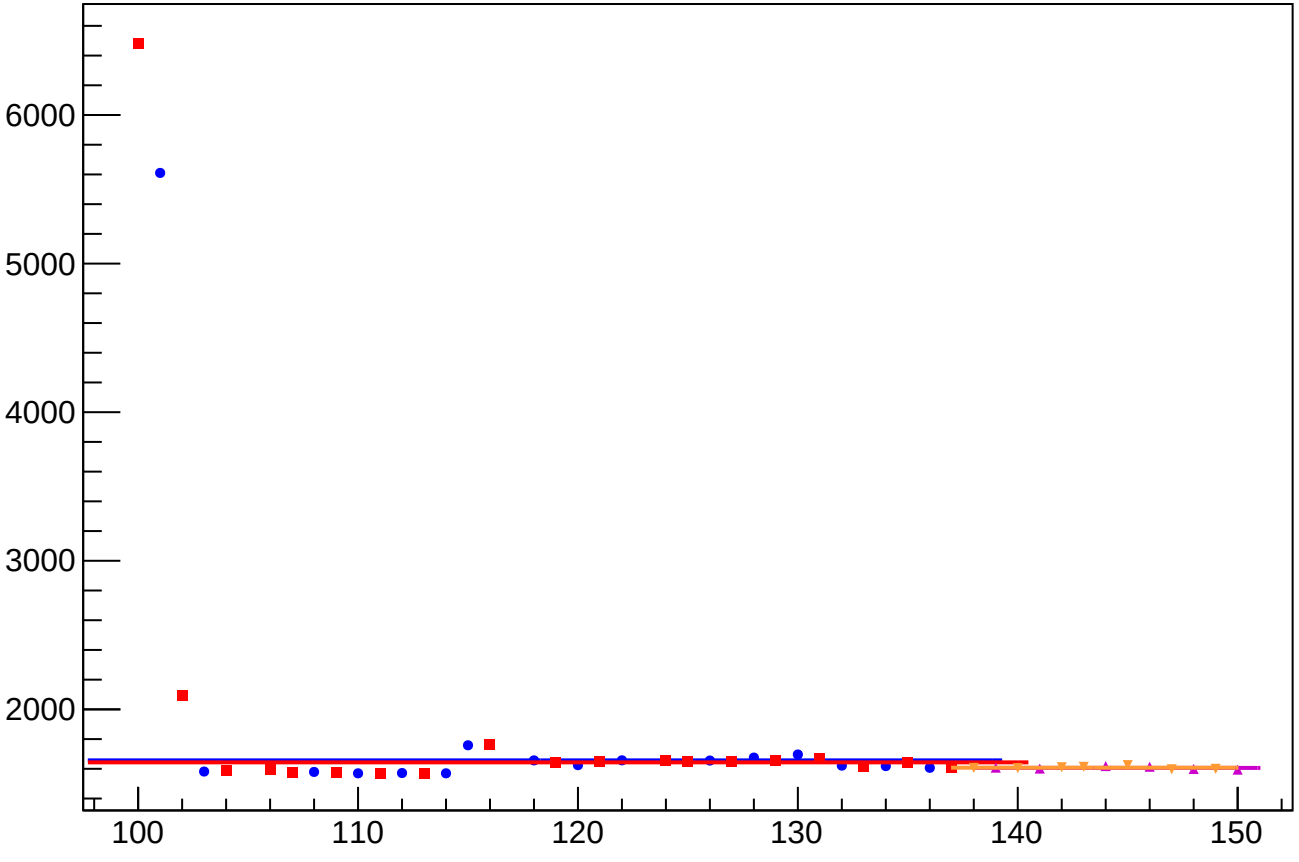
Right: 2365.487+/-438.001 $\chi^2$/NDF: 25.7/34

In: 2529.355+/-468.195 $\chi^2$/NDF:27.3/21

Out: 2140.067+/-457.978 $\chi^2$/NDF:15.7/25

All: 2330.418+/-327.392 $\chi^2$/NDF: 43.4/47

# reg_asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666226.2/15

Left Out: 1607.579+/-0.491 $\chi^2$/NDF:324.7/6

Right Out: 1643.430+/-0.431 $\chi^2$/NDF: 136997.9/18

Left In: 1606.005+/-0.495 $\chi^2$/NDF:295.9/5

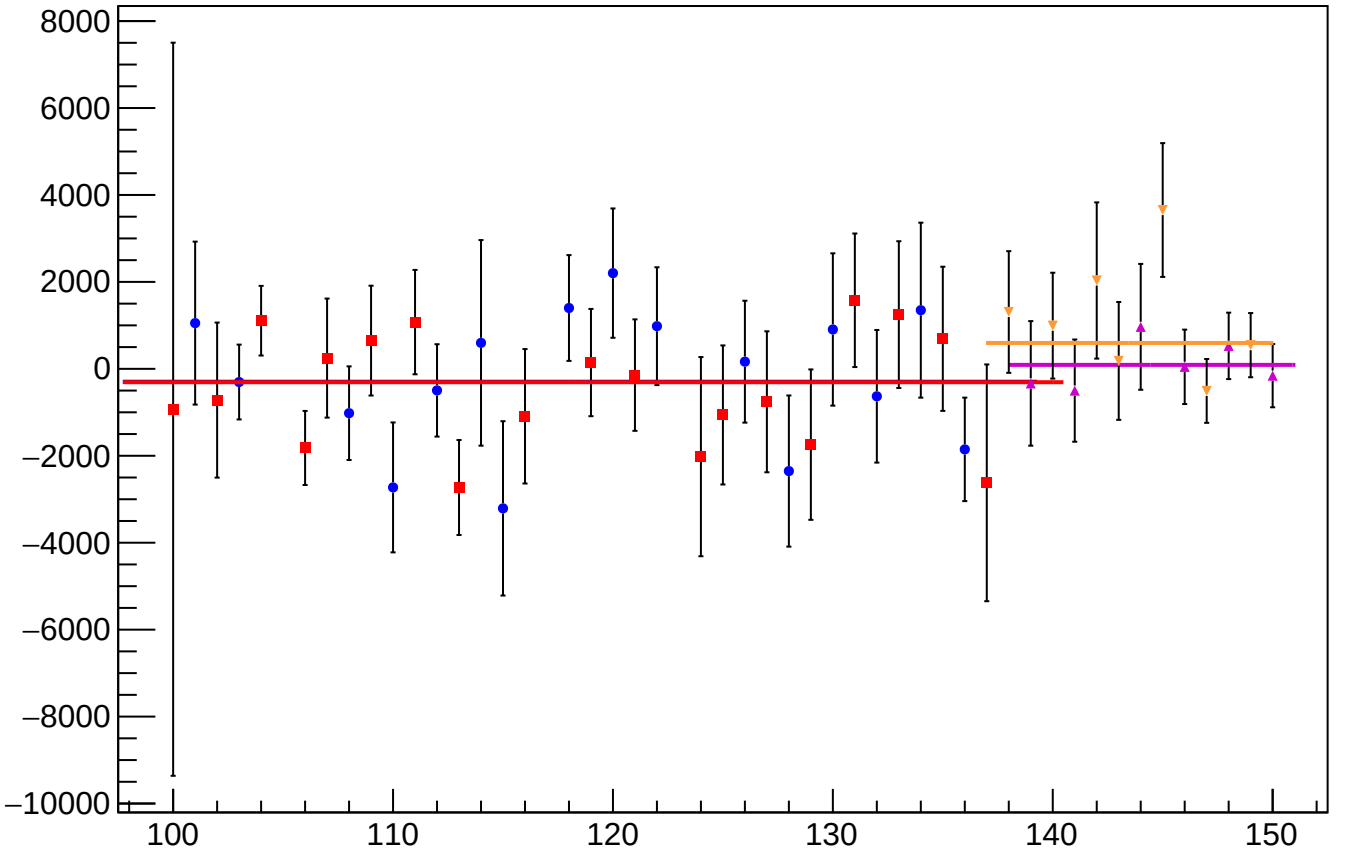
Left: 1606.798+/-0.348 $\chi^2$/NDF: 625.7/12

Right: 1649.831+/-0.310 $\chi^2$/NDF: 803681.3/34

In: 1633.973+/-0.331 $\chi^2$/NDF:672317.3/21

Out: 1627.844+/-0.324 $\chi^2$/NDF:140334.3/25

All: 1630.841+/-0.232 $\chi^2$/NDF: 812826.7/47




Right In: -296.450+/-343.436 $\chi^2$/NDF: 16.0/15

Left Out: 595.496+/-403.194 $\chi^2$/NDF:7.3/6

Right Out: -307.671+/-312.976 $\chi^2$/NDF: 18.7/18

Left In: 91.134+/-387.651 $\chi^2$/NDF:1.2/5

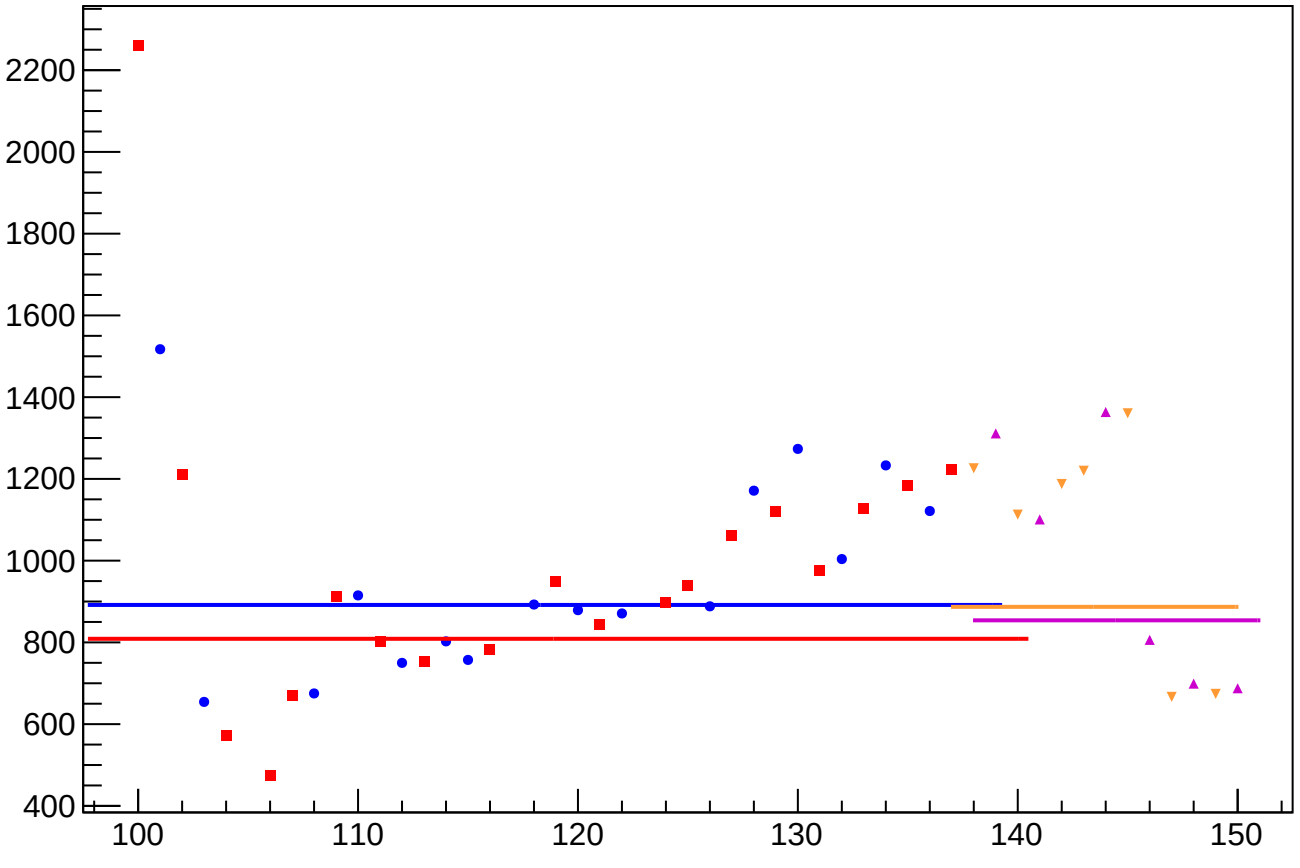
Left: 333.406+/-279.444 $\chi^2$/NDF: 9.3/12

Right: -302.580+/-231.328 $\chi^2$/NDF: 34.7/34

In: -126.013+/-257.063 $\chi^2$/NDF:17.7/21

Out: 31.916+/-247.232 $\chi^2$/NDF:29.1/25

All: -43.971+/-178.194 $\chi^2$/NDF: 47.0/47




Right In: 891.633+/-0.243 $\chi^2$/NDF: 793897.2/15

Left Out: 886.963+/-0.285 $\chi^2$/NDF:898274.1/6

Right Out: 808.809+/-0.221 $\chi^2$/NDF: 1083841.8/18

Left In: 853.989+/-0.274 $\chi^2$/NDF:732485.2/5

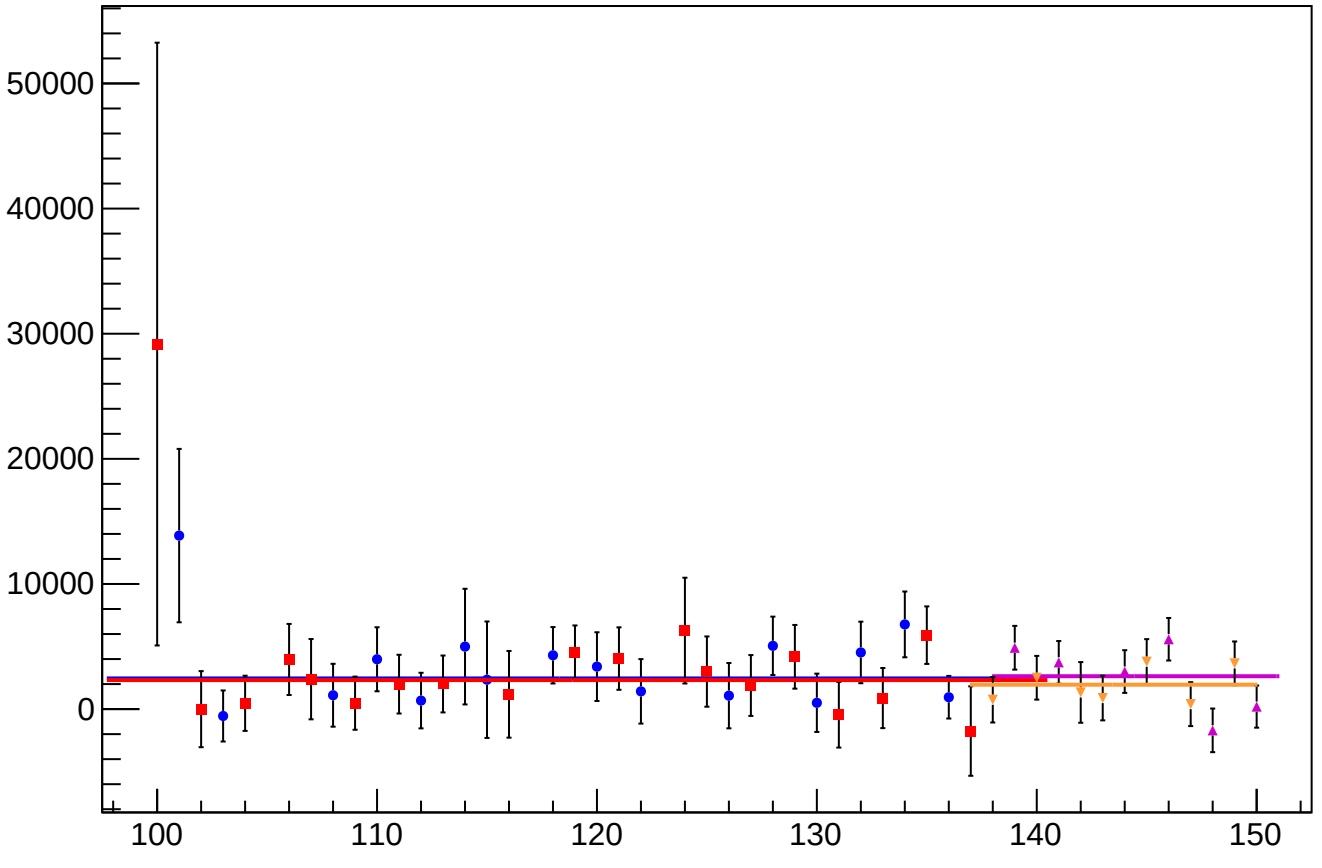
Left: 869.828+/-0.198 $\chi^2$/NDF: 1637710.2/12

Right: 846.386+/-0.164 $\chi^2$/NDF: 1941284.0/34

In: 875.079+/-0.182 $\chi^2$/NDF:1536948.9/21

Out: 838.195+/-0.175 $\chi^2$/NDF:2029006.3/25

All: 855.918+/-0.126 $\chi^2$/NDF: 3587345.6/47




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1949.540+/-694.575 $\chi^2$/NDF:3.7/6

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 2627.353+/-699.409 $\chi^2$/NDF:13.4/5

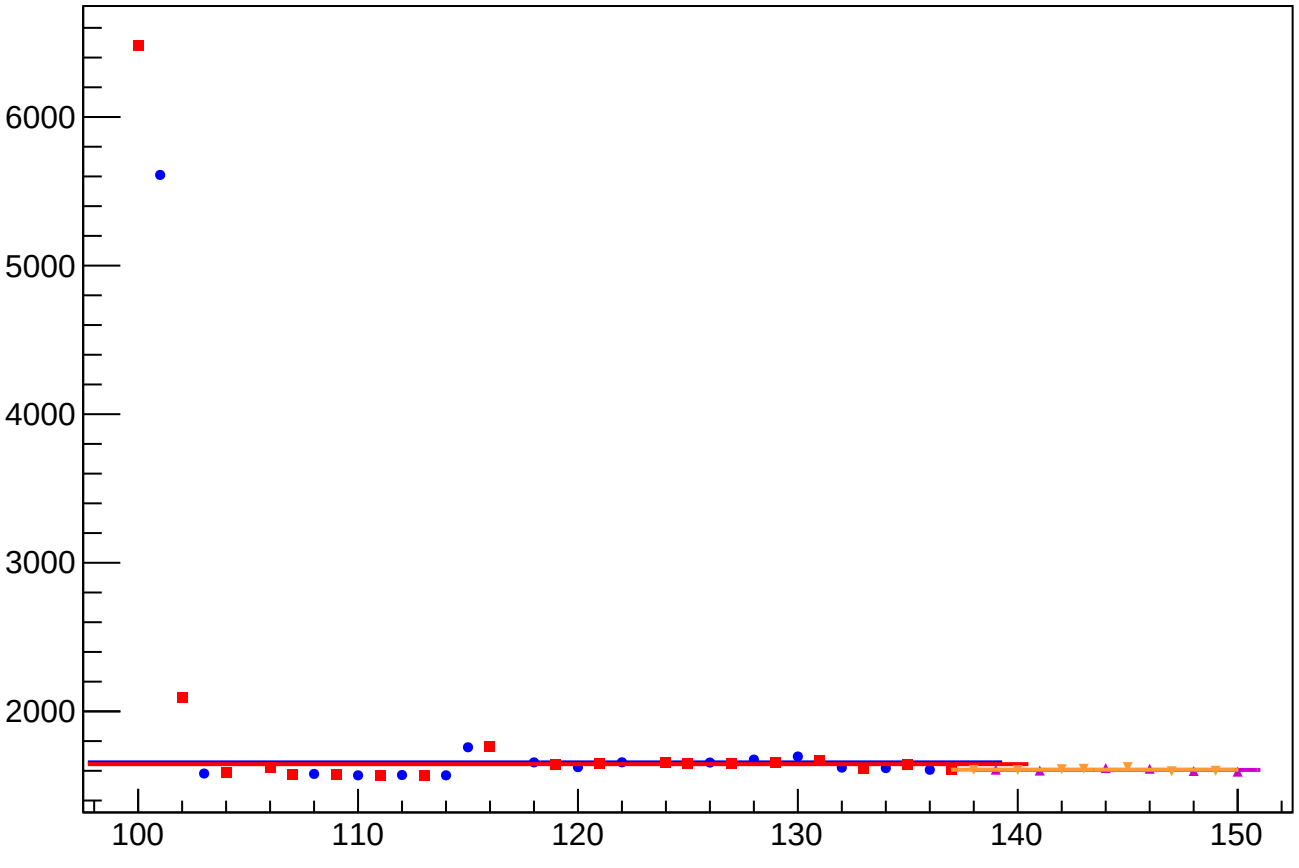
Left: 2286.096+/-492.839 $\chi^2$/NDF: 17.6/12

Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2529.142+/-468.195 $\chi^2$/NDF:27.3/21

Out: 2159.113+/-458.191 $\chi^2$/NDF:16.0/25

All: 2340.132+/-327.469 $\chi^2$/NDF: 43.6/47




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1607.580+/-0.491 $\chi^2$/NDF:324.7/6

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1606.005+/-0.495 $\chi^2$/NDF:295.9/5

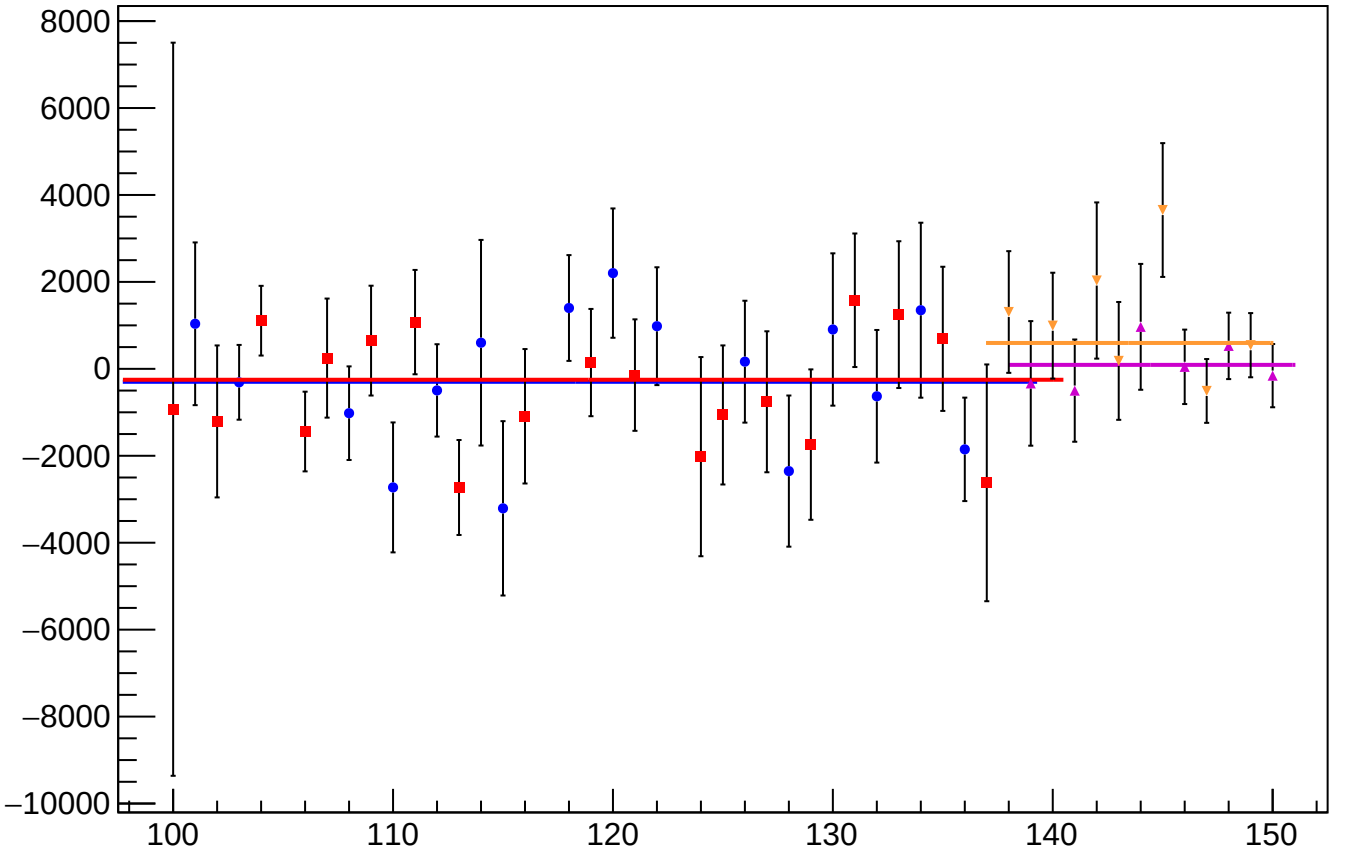
Left: 1606.798+/-0.348 $\chi^2$/NDF: 625.7/12

Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1633.973+/-0.331 $\chi^2$/NDF:672316.8/21

Out: 1628.565+/-0.324 $\chi^2$/NDF:140040.0/25

All: 1631.211+/-0.232 $\chi^2$/NDF: 812493.1/47




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: 595.360+/-403.187 $\chi^2$/NDF:7.3/6

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: 91.172+/-387.654 $\chi^2$/NDF:1.2/5

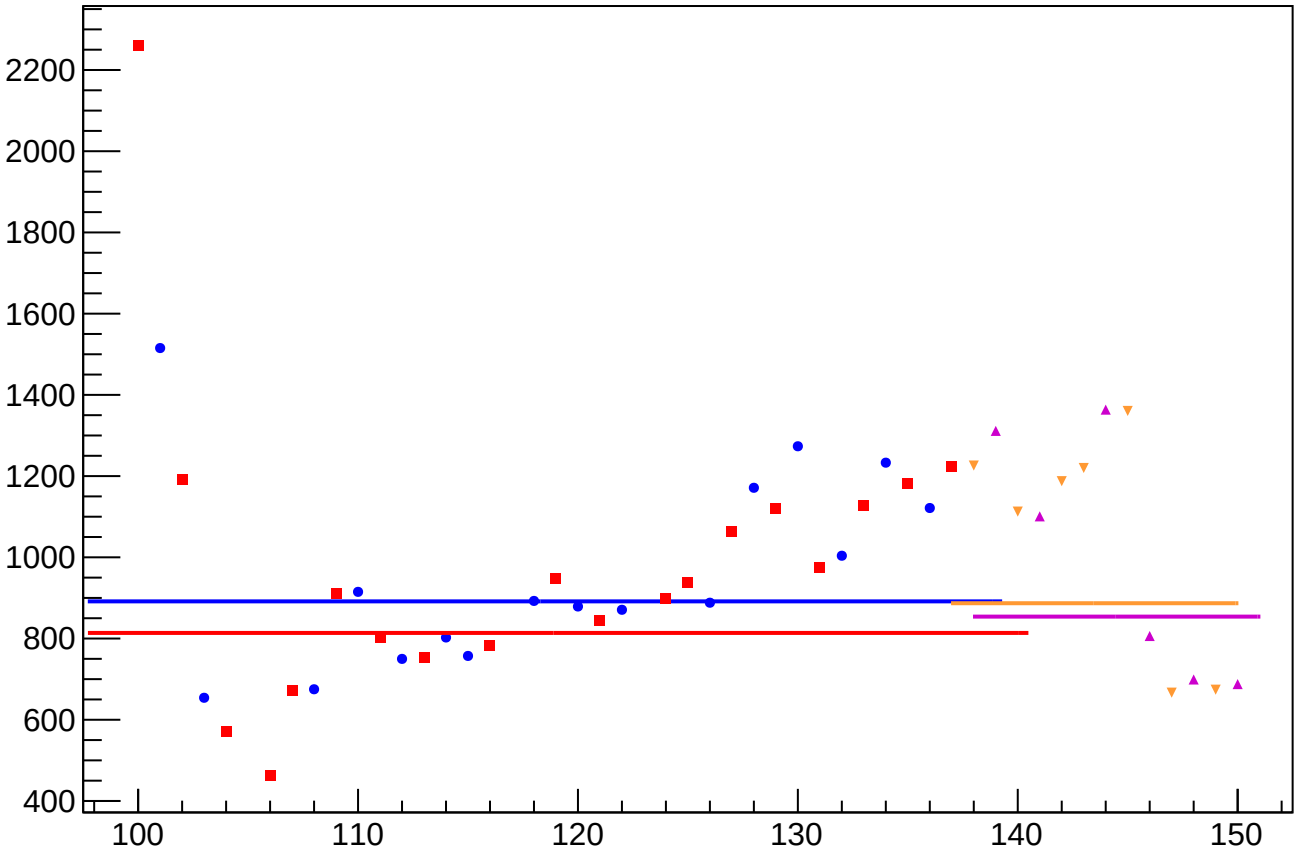
Left: 333.368+/-279.443 $\chi^2$/NDF: 9.3/12

Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -126.776+/-257.045 $\chi^2$/NDF:17.7/21

Out: 70.603+/-248.591 $\chi^2$/NDF:27.3/25

All: -24.787+/-178.694 $\chi^2$/NDF: 45.3/47




Right In: 891.533+/-0.243 $\chi^2$/NDF: 793657.2/15

Left Out: 886.944+/-0.285 $\chi^2$/NDF:898306.8/6

Right Out: 813.807+/-0.223 $\chi^2$/NDF: 1052991.6/18

Left In: 853.998+/-0.274 $\chi^2$/NDF:732470.7/5

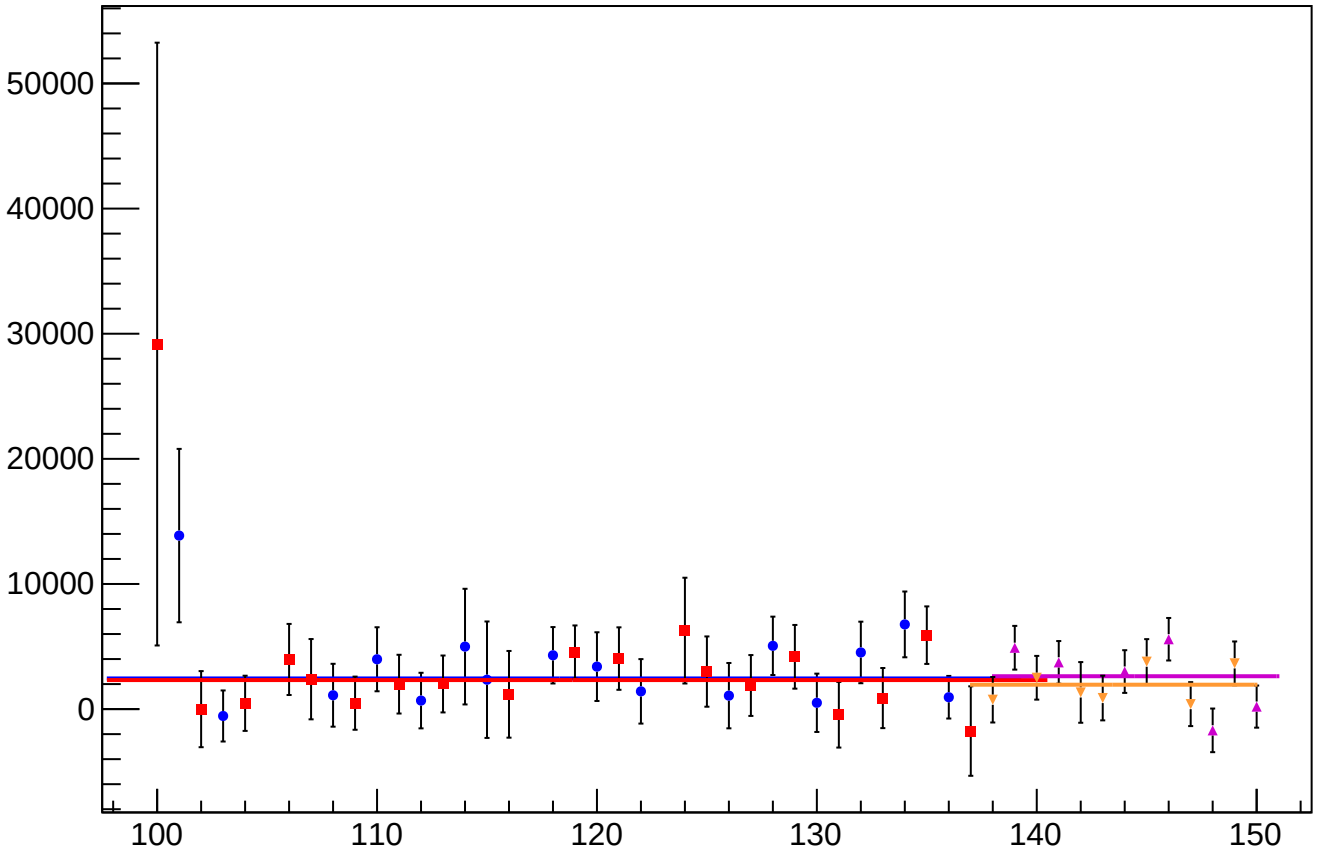
Left: 869.824+/-0.198 $\chi^2$/NDF: 1637716.7/12

Right: 849.416+/-0.164 $\chi^2$/NDF: 1902171.7/34

In: 875.030+/-0.182 $\chi^2$/NDF:1536634.2/21

Out: 841.610+/-0.176 $\chi^2$/NDF:1992090.4/25

All: 857.761+/-0.126 $\chi^2$/NDF: 3546193.5/47




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1949.540+/-694.575 $\chi^2$/NDF:3.7/6

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 2627.353+/-699.409 $\chi^2$/NDF:13.4/5

Left: 2286.096+/-492.839 $\chi^2$/NDF: 17.6/12

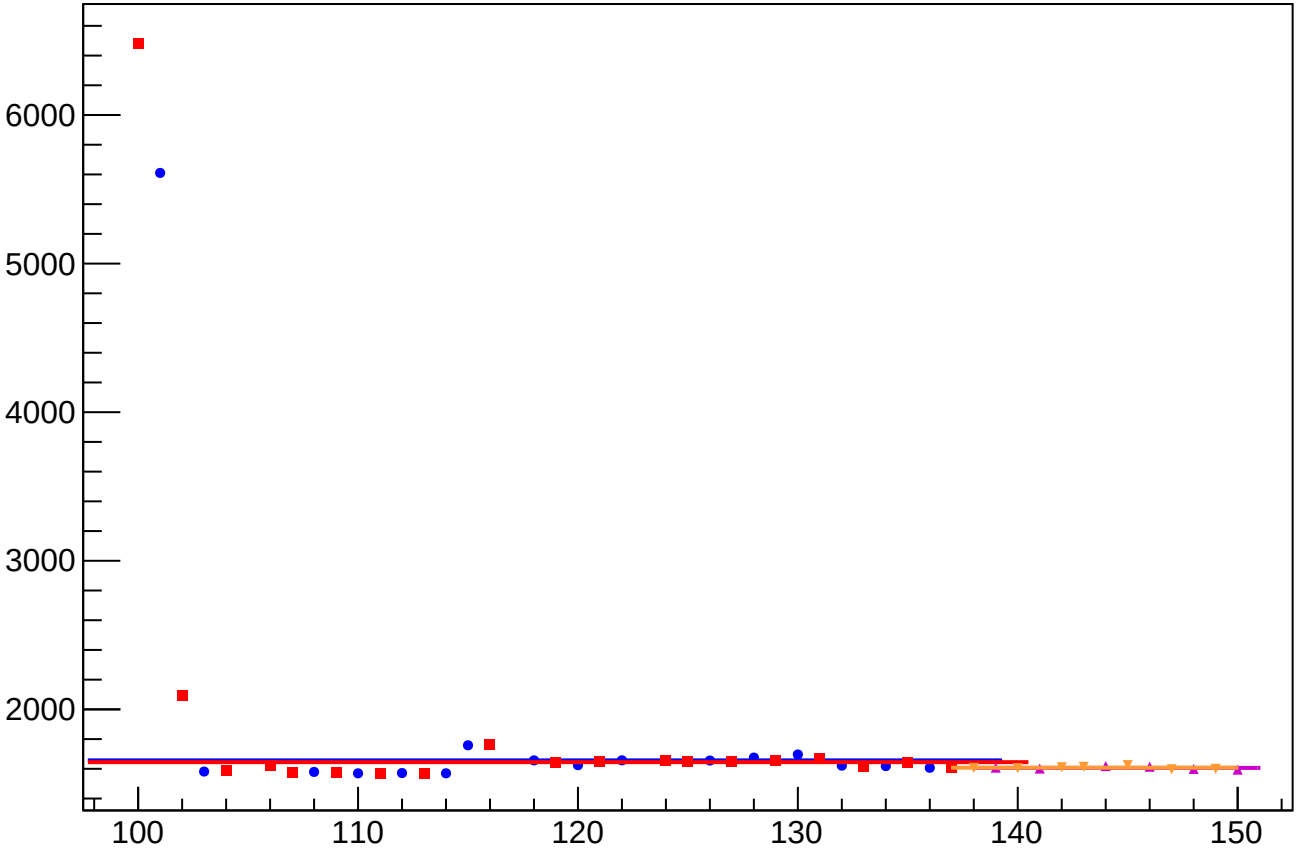
Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2529.142+/-468.195 $\chi^2$/NDF:27.3/21

Out: 2159.113+/-458.191 $\chi^2$/NDF:16.0/25

All: 2340.132+/-327.469 $\chi^2$/NDF: 43.6/47

# eigen_cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1607.580+/-0.491 $\chi^2$/NDF:324.7/6

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1606.005+/-0.495 $\chi^2$/NDF:295.9/5

Left: 1606.798+/-0.348 $\chi^2$/NDF: 625.7/12

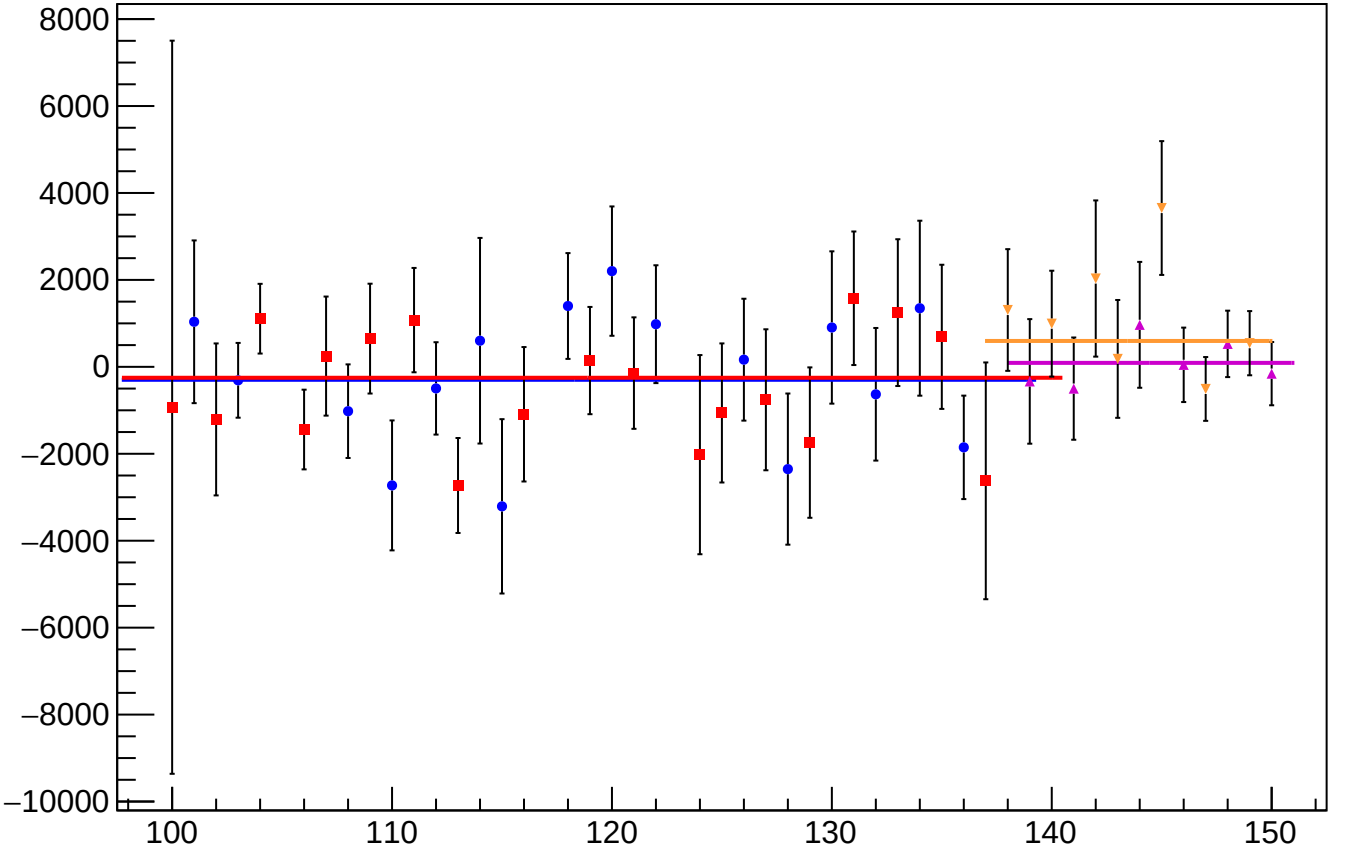
Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1633.973+/-0.331 $\chi^2$/NDF:672316.8/21

Out: 1628.565+/-0.324 $\chi^2$/NDF:140040.0/25

All: 1631.211+/-0.232 $\chi^2$/NDF: 812493.1/47

asym_usr_atr1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: 595.360+/-403.187 $\chi^2$/NDF:7.3/6

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: 91.172+/-387.654 $\chi^2$/NDF:1.2/5

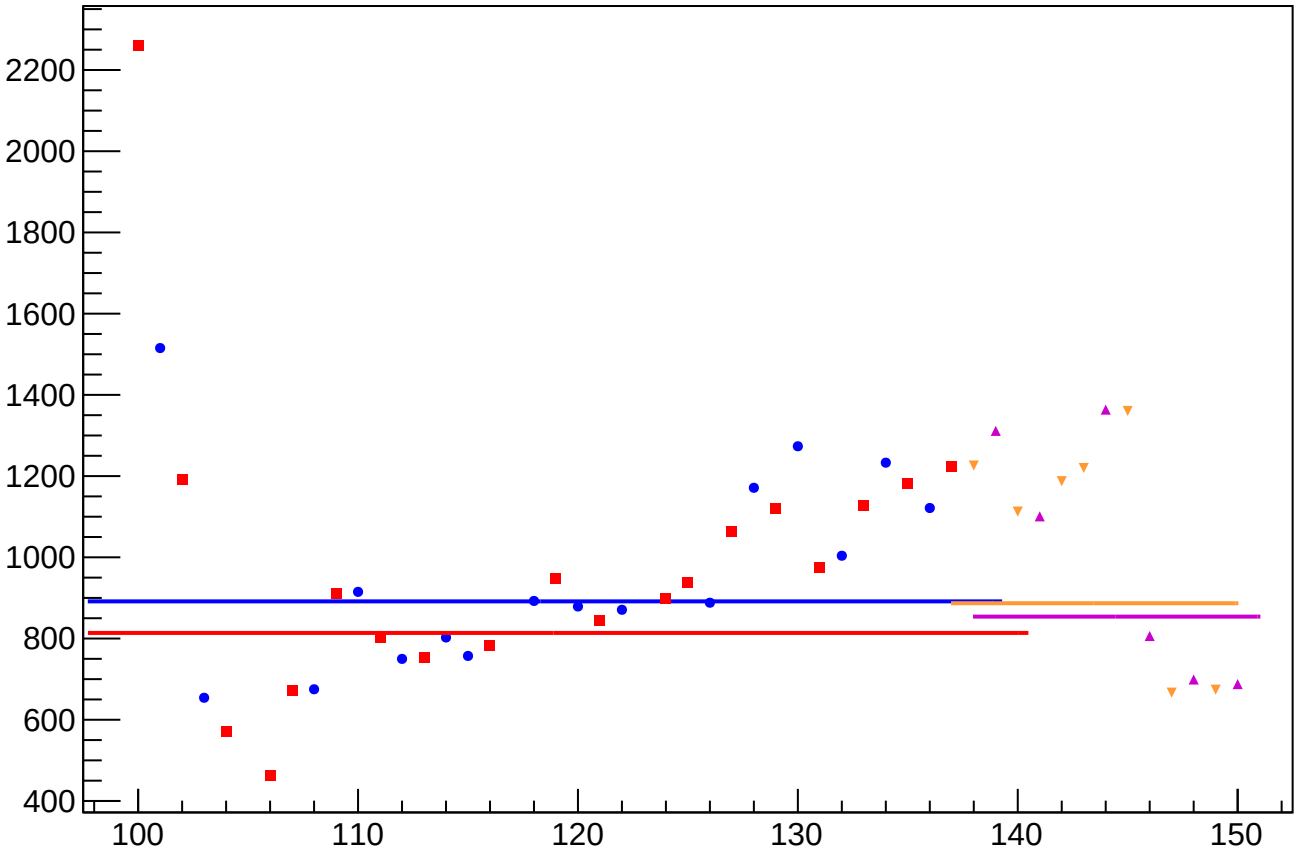
Left: 333.368+/-279.443 $\chi^2$/NDF: 9.3/12

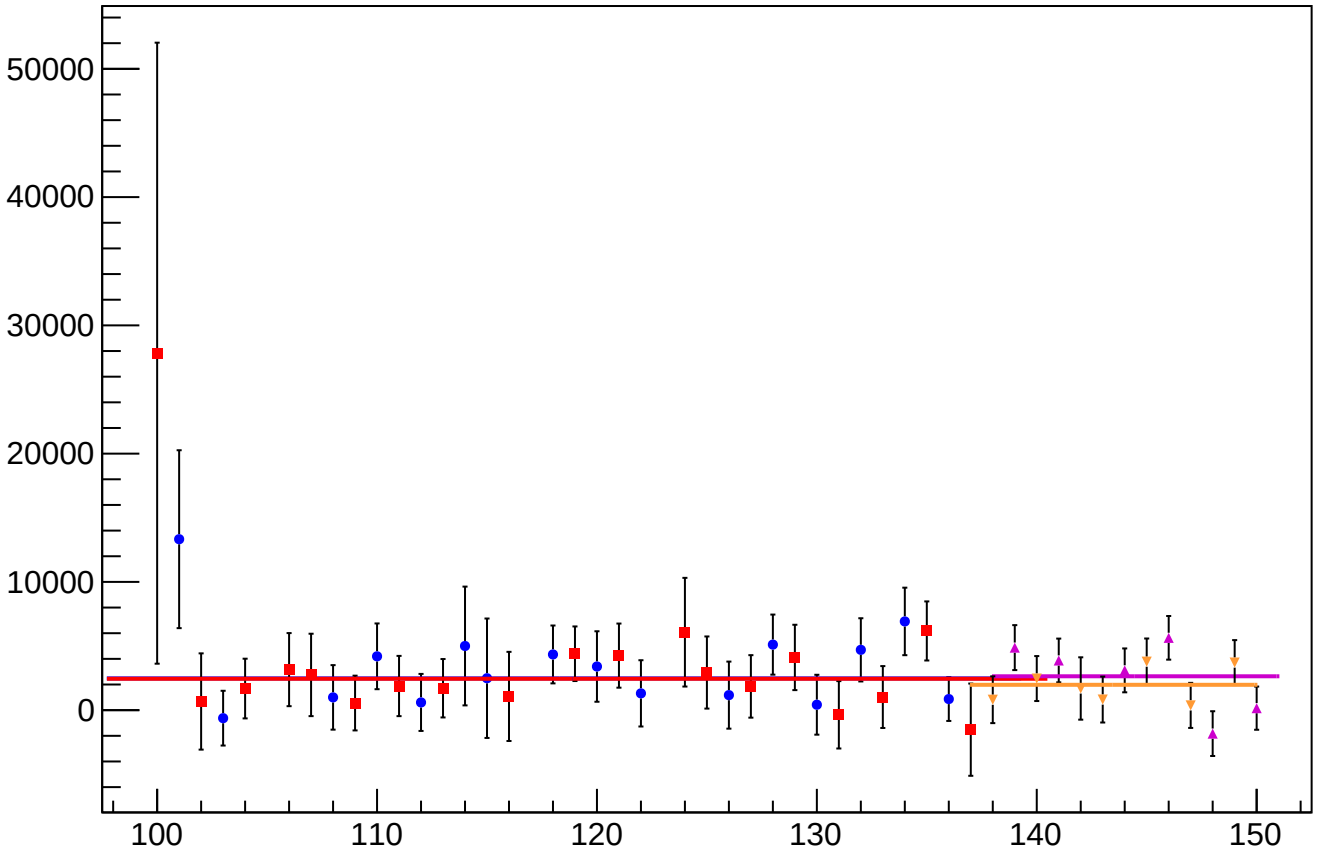
Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -126.776+/-257.045 $\chi^2$/NDF:17.7/21

Out: 70.603+/-248.591 $\chi^2$/NDF:27.3/25

All: -24.787+/-178.694 $\chi^2$/NDF: 45.3/47


asym_usr_atr1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
600
400
100
110
120
130
140
150
Right In: 891.533+/-0.243 χ²/NDF: 793657.2/15
Left Out: 886.944+/-0.285 χ²/NDF:898306.8/6
Right Out: 813.807+/-0.223 χ²/NDF: 1052991.6/18
Left In: 853.998+/-0.274 χ²/NDF:732470.7/5
Left: 869.824+/-0.198 χ²/NDF: 1637716.7/12
Right: 849.416+/-0.164 χ²/NDF: 1902171.7/34
In: 875.030+/-0.182 χ²/NDF:1536634.2/21
Out: 841.610+/-0.176 χ²/NDF:1992090.4/25
All: 857.761+/-0.126 χ²/NDF: 3546193.5/47




Right In: 2475.229+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 1977.198+/-696.007 $\chi^2$/NDF:3.7/6

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 2641.821+/-700.516 $\chi^2$/NDF:14.1/5

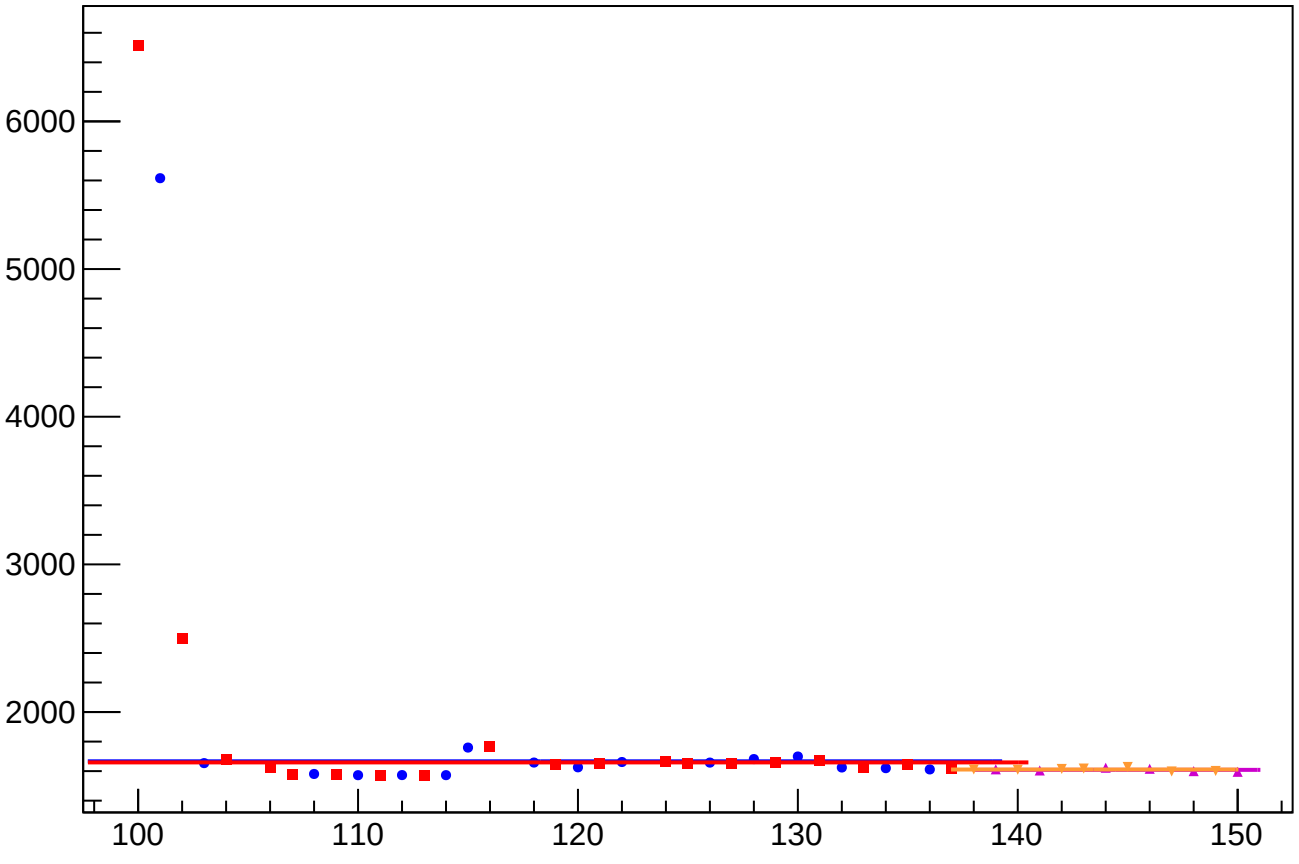
Left: 2307.364+/-493.738 $\chi^2$/NDF: 18.2/12

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2550.224+/-470.012 $\chi^2$/NDF:28.3/21

Out: 2241.216+/-461.925 $\chi^2$/NDF:14.5/25

All: 2393.039+/-329.452 $\chi^2$/NDF: 43.1/47




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1610.881+/-0.492 $\chi^2$/NDF:393.3/6

Right Out: 1659.005+/-0.437 $\chi^2$/NDF: 193223.7/18

Left In: 1608.518+/-0.495 $\chi^2$/NDF:369.4/5

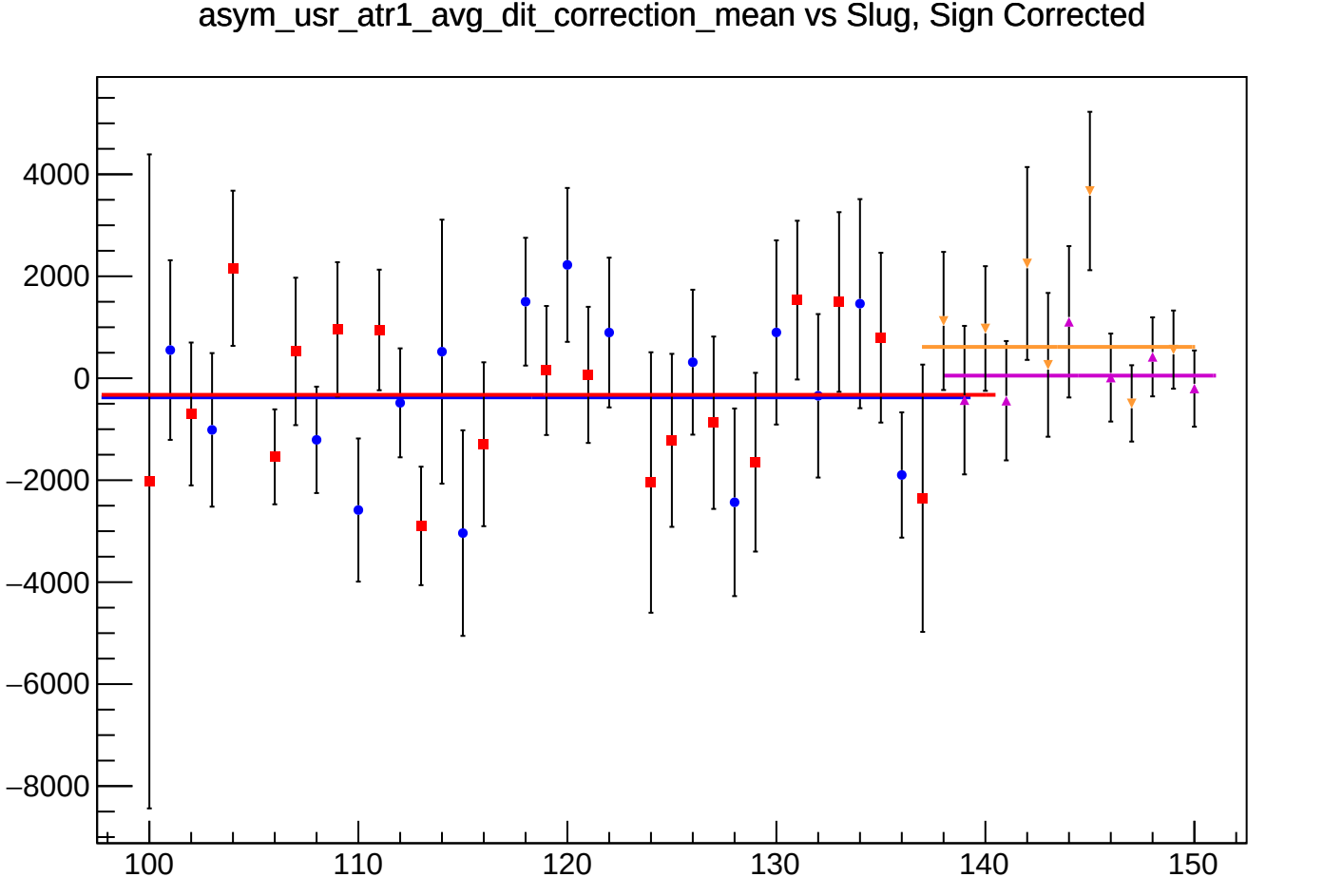
Left: 1609.707+/-0.349 $\chi^2$/NDF: 774.1/12

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.9/34

In: 1640.343+/-0.332 $\chi^2$/NDF:670791.6/21

Out: 1637.808+/-0.327 $\chi^2$/NDF:198966.8/25

All: 1639.053+/-0.233 $\chi^2$/NDF: 869787.9/47




Right In: -374.592+/-367.944 $\chi^2$/NDF: 15.7/15

Left Out: 614.347+/-411.768 $\chi^2$/NDF:7.1/6

Right Out: -325.671+/-340.620 $\chi^2$/NDF: 17.4/18

Left In: 51.193+/-393.657 $\chi^2$/NDF:1.1/5

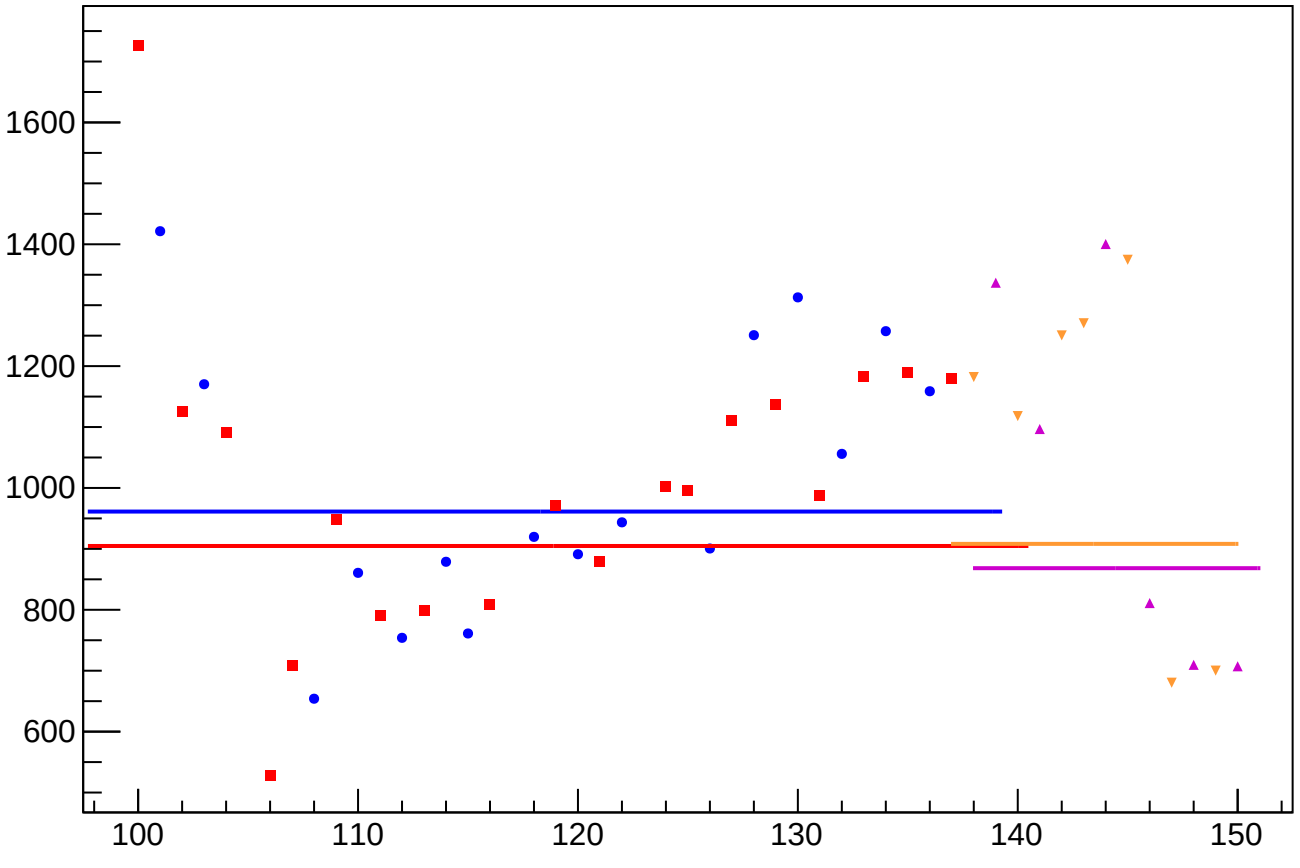
Left: 320.113+/-284.545 $\chi^2$/NDF: 9.2/12

Right: -348.248+/-249.957 $\chi^2$/NDF: 33.1/34

In: -176.058+/-268.807 $\chi^2$/NDF:17.5/21

Out: 56.236+/-262.460 $\chi^2$/NDF:27.6/25

All: -57.137+/-187.791 $\chi^2$/NDF: 45.5/47




Right In: 961.243+/-0.260 $\chi^2$/NDF: 691875.4/15

Left Out: 908.193+/-0.291 $\chi^2$/NDF:851002.5/6

Right Out: 904.736+/-0.241 $\chi^2$/NDF: 736484.7/18

Left In: 868.304+/-0.278 $\chi^2$/NDF:725674.7/5

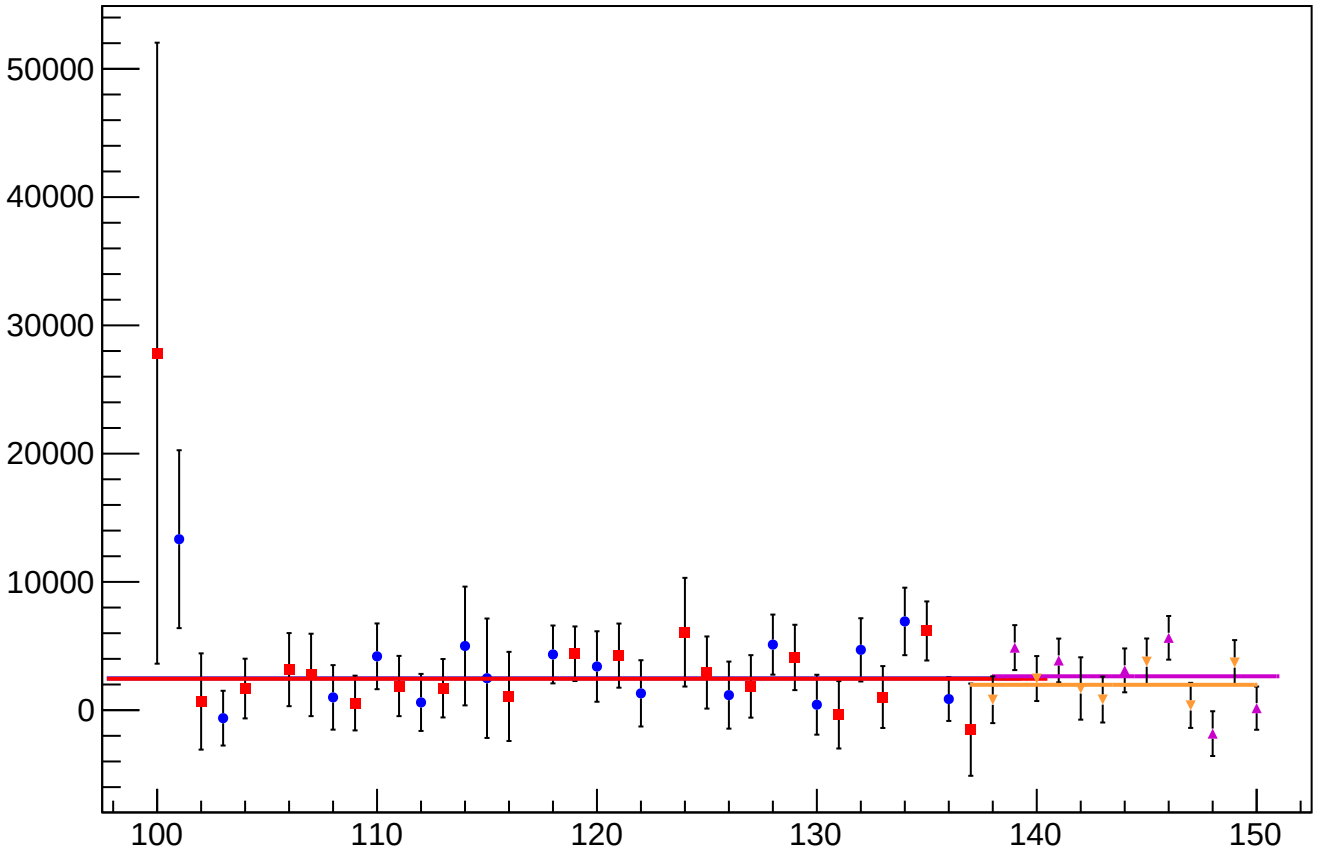
Left: 887.352+/-0.201 $\chi^2$/NDF: 1586483.8/12

Right: 930.814+/-0.177 $\chi^2$/NDF: 1453761.0/34

In: 917.907+/-0.190 $\chi^2$/NDF:1477048.6/21

Out: 906.141+/-0.186 $\chi^2$/NDF:1587570.9/25

All: 911.883+/-0.133 $\chi^2$/NDF: 3066581.4/47




Right In: 2475.228+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 1977.200+/-696.007 $\chi^2$/NDF:3.7/6

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 2641.821+/-700.516 $\chi^2$/NDF:14.1/5

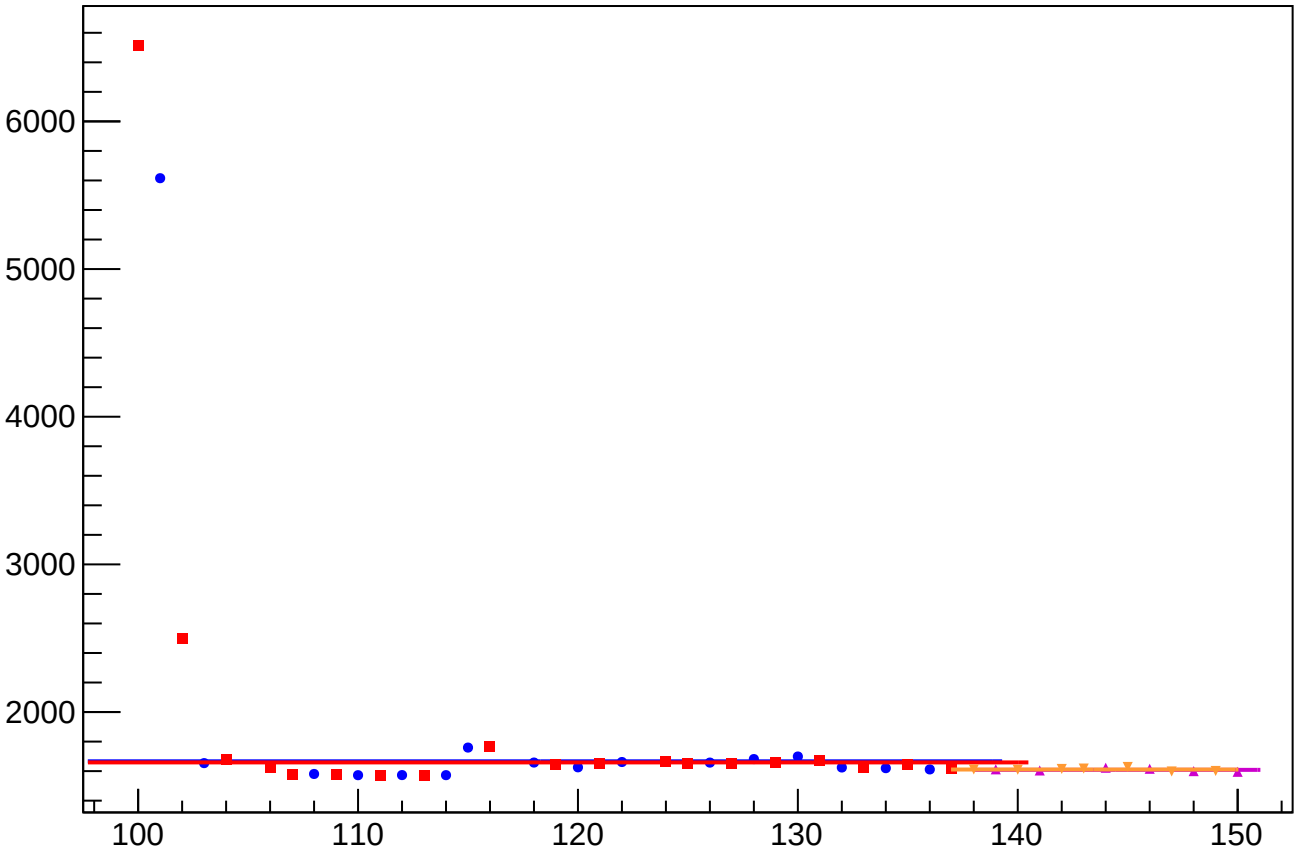
Left: 2307.365+/-493.738 $\chi^2$/NDF: 18.2/12

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2550.224+/-470.012 $\chi^2$/NDF:28.3/21

Out: 2241.217+/-461.925 $\chi^2$/NDF:14.5/25

All: 2393.039+/-329.452 $\chi^2$/NDF: 43.1/47




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1610.881+/-0.492 $\chi^2$/NDF:393.3/6

Right Out: 1659.004+/-0.437 $\chi^2$/NDF: 193223.5/18

Left In: 1608.518+/-0.495 $\chi^2$/NDF:369.4/5

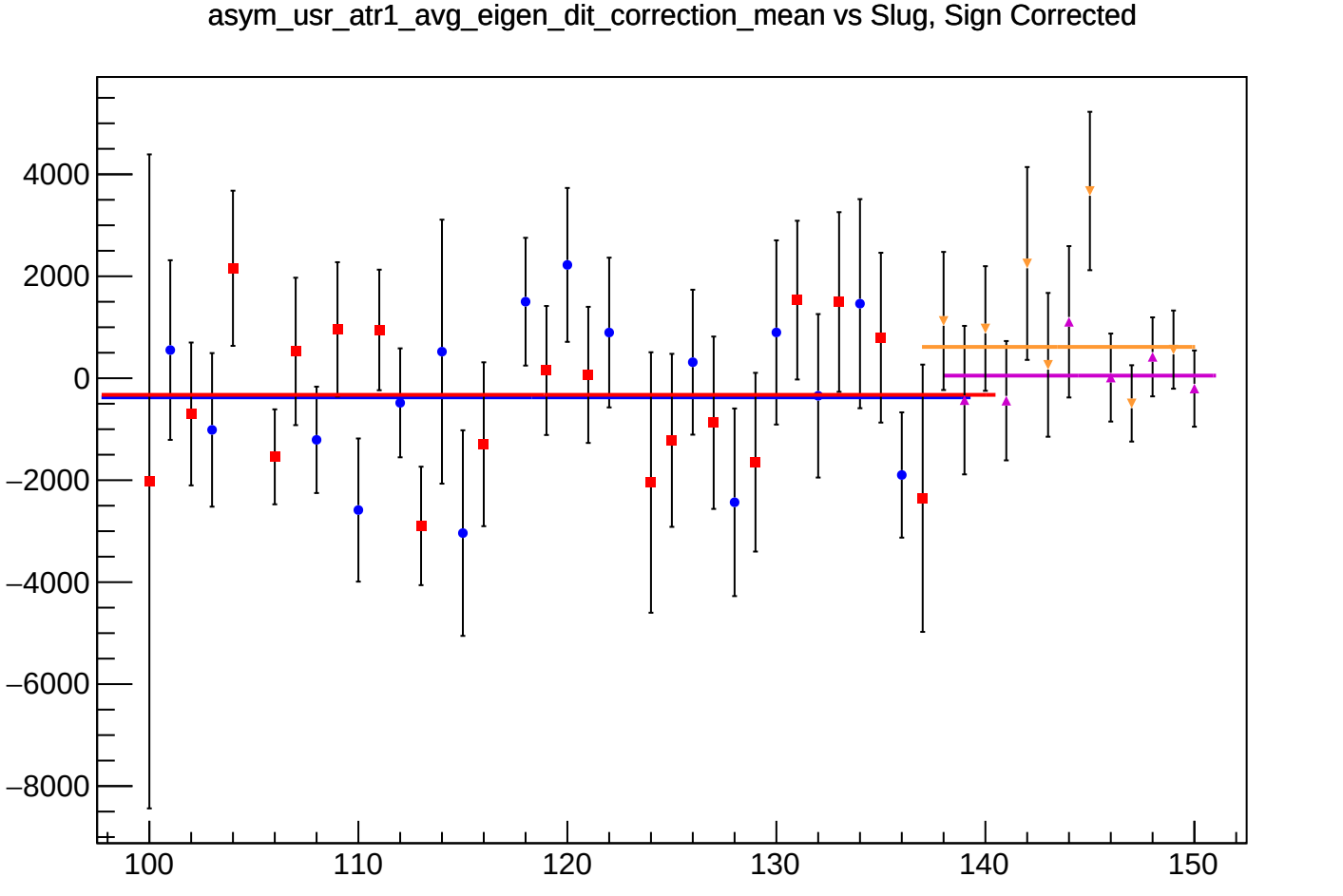
Left: 1609.707+/-0.349 $\chi^2$/NDF: 774.1/12

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.7/34

In: 1640.343+/-0.332 $\chi^2$/NDF:670791.5/21

Out: 1637.808+/-0.327 $\chi^2$/NDF:198966.6/25

All: 1639.053+/-0.233 $\chi^2$/NDF: 869787.7/47




Right In: -374.590+/-367.943 $\chi^2$/NDF: 15.7/15

Left Out: 614.347+/-411.769 $\chi^2$/NDF:7.1/6

Right Out: -325.670+/-340.619 $\chi^2$/NDF: 17.4/18

Left In: 51.193+/-393.658 $\chi^2$/NDF:1.1/5

Left: 320.113+/-284.545 $\chi^2$/NDF: 9.2/12

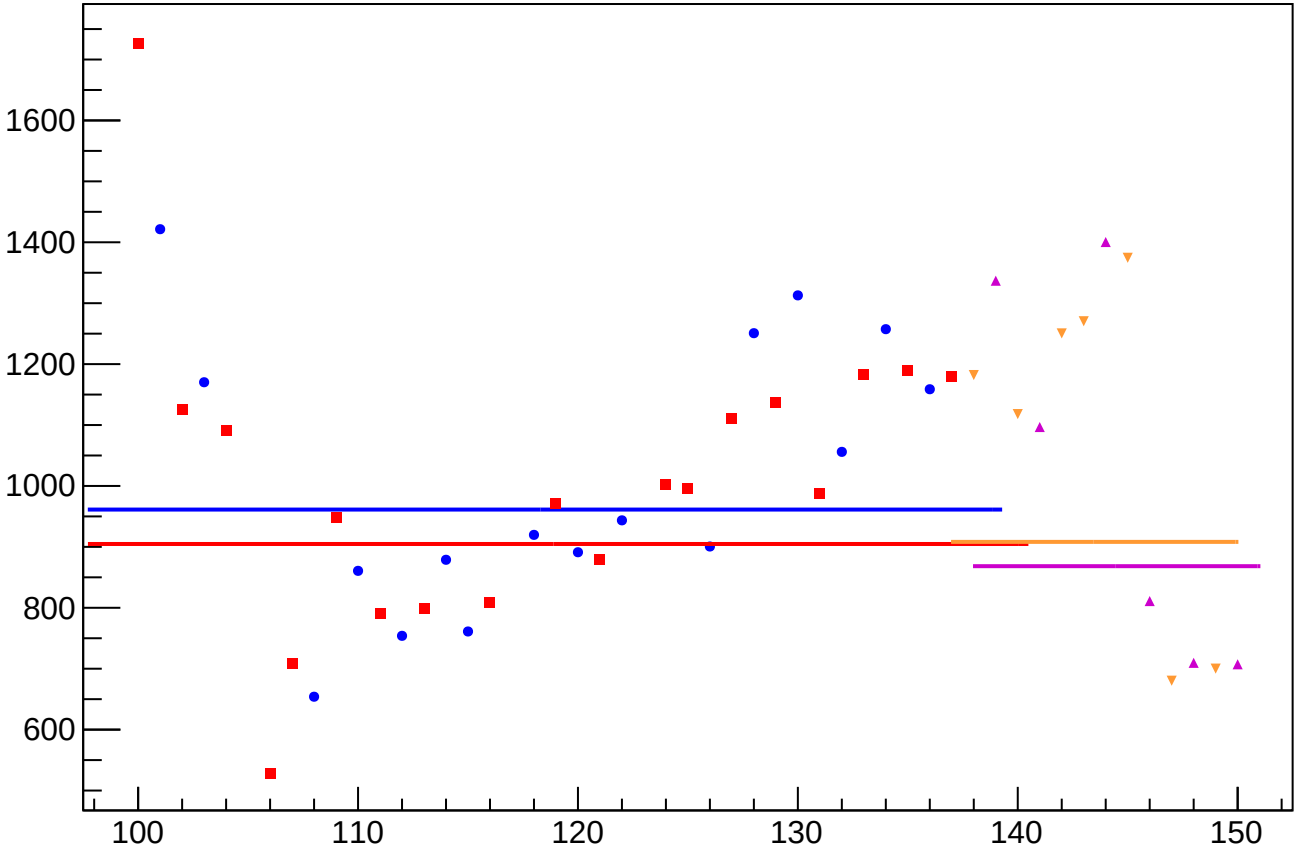
Right: -348.247+/-249.956 $\chi^2$/NDF: 33.1/34

In: -176.059+/-268.806 $\chi^2$/NDF:17.5/21

Out: 56.234+/-262.460 $\chi^2$/NDF:27.6/25

All: -57.138+/-187.791 $\chi^2$/NDF: 45.5/47

asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 961.239+/-0.260 $\chi^2$/NDF: 691883.4/15

Left Out: 908.195+/-0.291 $\chi^2$/NDF:851003.7/6

Right Out: 904.734+/-0.241 $\chi^2$/NDF: 736482.2/18

Left In: 868.305+/-0.278 $\chi^2$/NDF:725675.9/5

Left: 887.354+/-0.201 $\chi^2$/NDF: 1586486.2/12

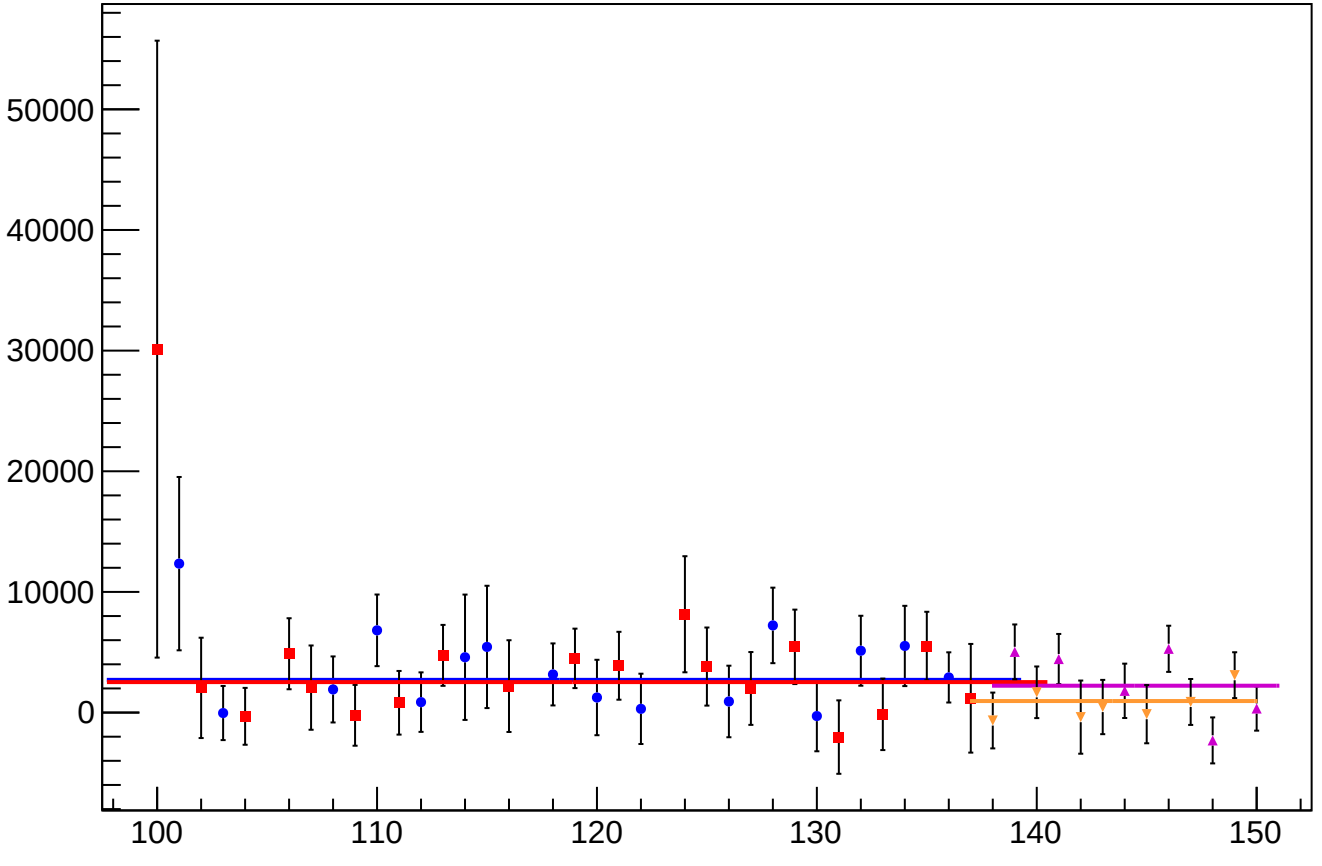
Right: 930.811+/-0.177 $\chi^2$/NDF: 1453765.4/34

In: 917.906+/-0.190 $\chi^2$/NDF:1477050.8/21

Out: 906.140+/-0.186 $\chi^2$/NDF:1587569.8/25

All: 911.883+/-0.133 $\chi^2$/NDF: 3066582.4/47

# asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2711.394+/-735.088 $\chi^2$/NDF: 12.1/15

Left Out: 954.778+/-834.468 $\chi^2$/NDF:2.3/6

Right Out: 2525.536+/-706.449 $\chi^2$/NDF: 13.2/18

Left In: 2225.779+/-825.432 $\chi^2$/NDF:12.0/5

Left: 1597.197+/-586.837 $\chi^2$/NDF: 15.5/12

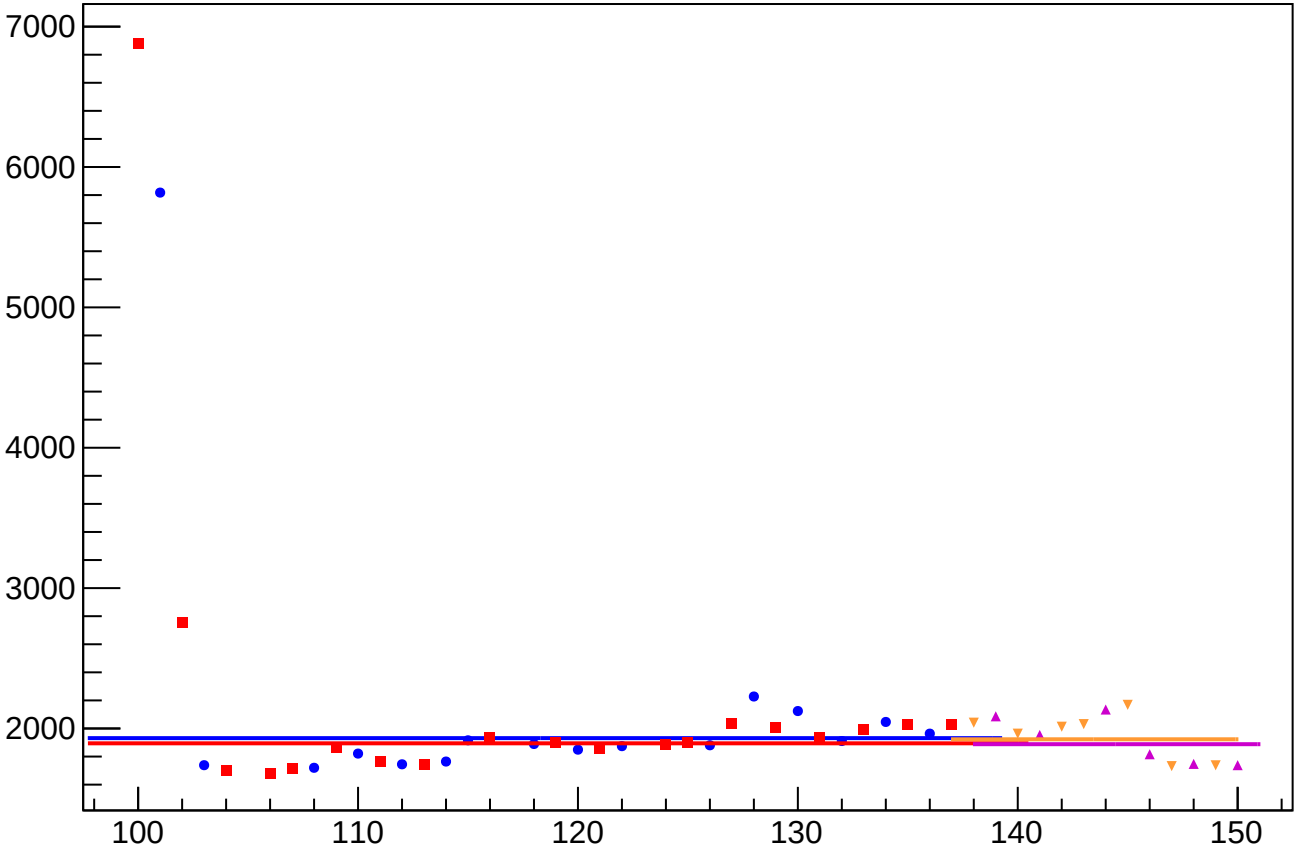
Right: 2614.774+/-509.359 $\chi^2$/NDF: 25.4/34

In: 2496.606+/-548.959 $\chi^2$/NDF:24.3/21

Out: 1869.761+/-539.179 $\chi^2$/NDF:17.6/25

All: 2177.550+/-384.668 $\chi^2$/NDF: 42.6/47

# asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1931.250+/-0.520 $\chi^2$/NDF: 661227.1/15

Left Out: 1923.017+/-0.590 $\chi^2$/NDF:72192.7/6

Right Out: 1894.349+/-0.500 $\chi^2$/NDF: 220541.1/18

Left In: 1888.128+/-0.584 $\chi^2$/NDF:68229.0/5

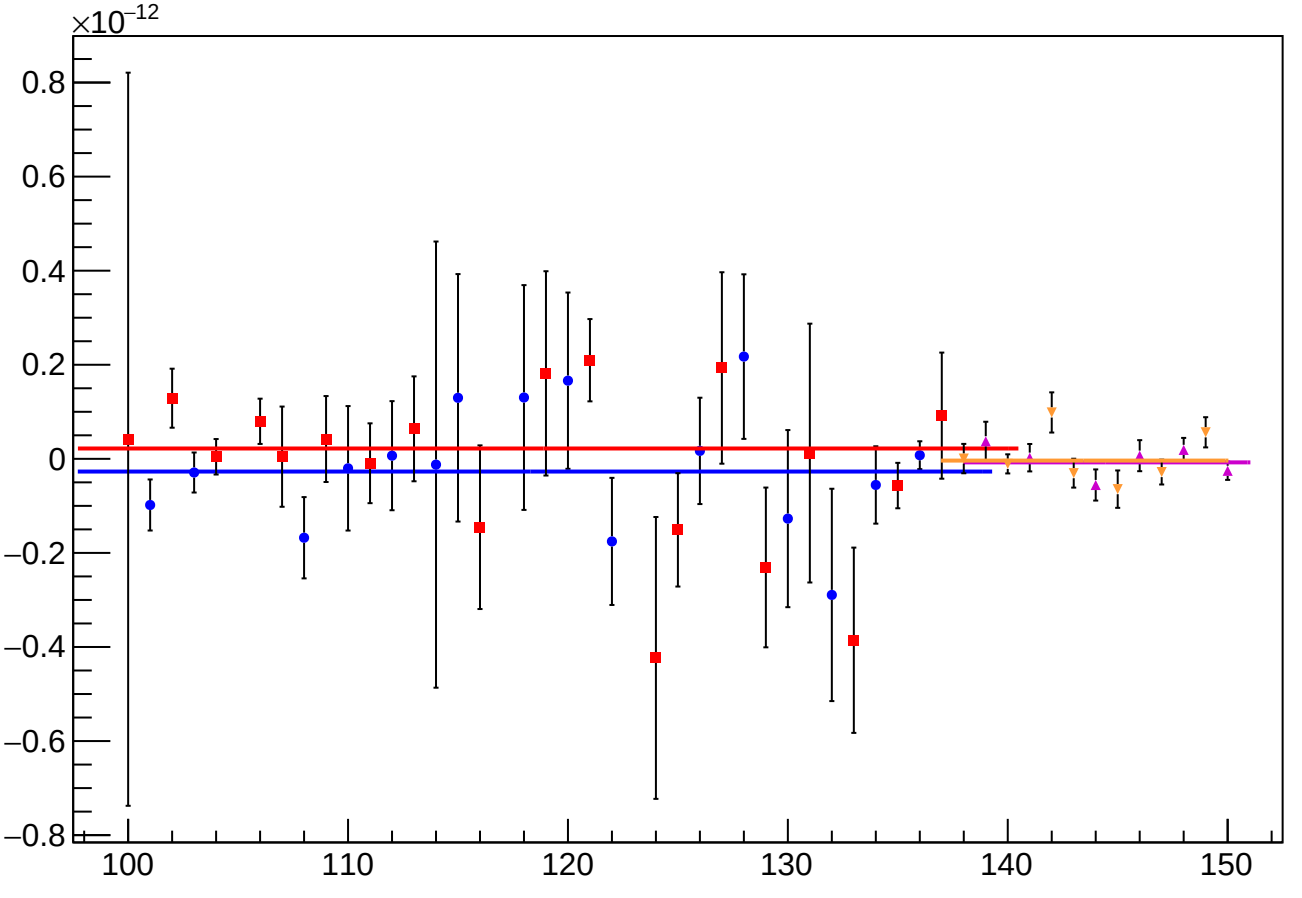
Left: 1905.383+/-0.415 $\chi^2$/NDF: 142188.7/12

Right: 1912.067+/-0.360 $\chi^2$/NDF: 884388.3/34

In: 1912.177+/-0.388 $\chi^2$/NDF:732500.2/21

Out: 1906.317+/-0.381 $\chi^2$/NDF:294108.8/25

All: 1909.195+/-0.272 $\chi^2$/NDF: 1026725.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.5/5

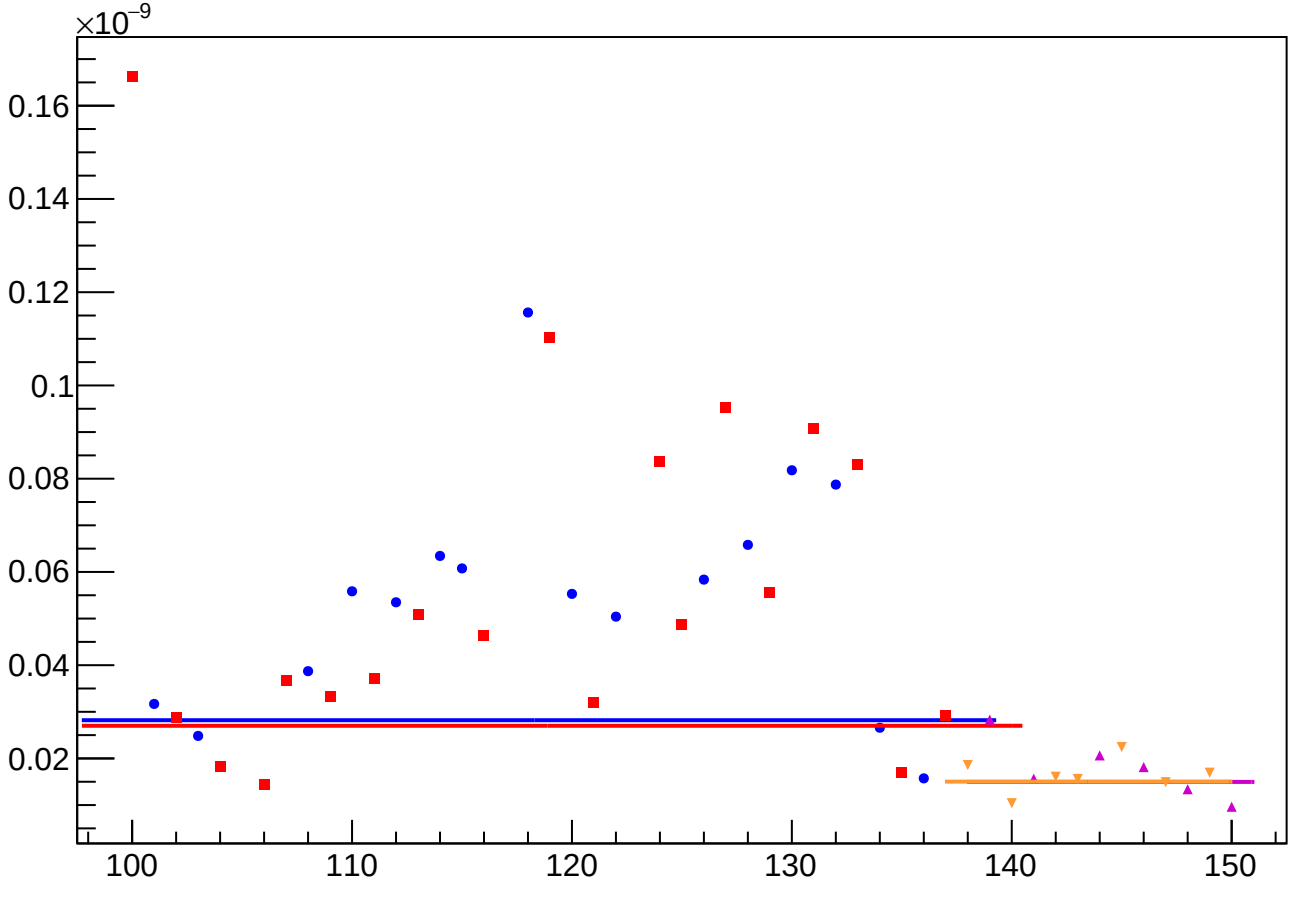
Left: -0.000+/-0.000 $\chi^2$/NDF: 18.9/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:40.1/25

All: -0.000+/-0.000 $\chi^2$/NDF: 60.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1490571.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:208735.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1556165.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:444432.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 653200.2/12

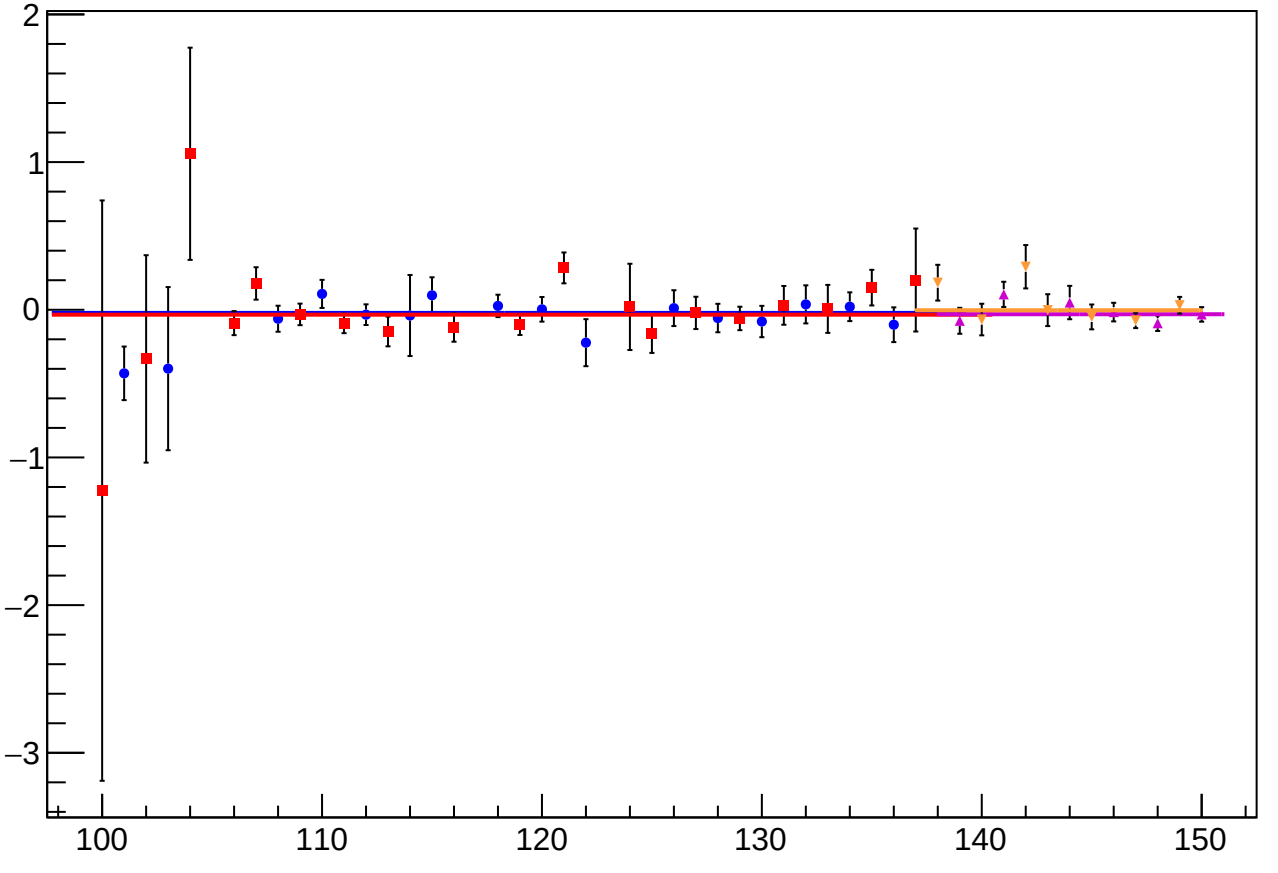
Right: 0.000+/-0.000 $\chi^2$/NDF: 3050538.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:2641903.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2340580.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4984115.9/47

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.003+/-0.030 $\chi^2$/NDF:9.1/6

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.030+/-0.027 $\chi^2$/NDF:4.6/5

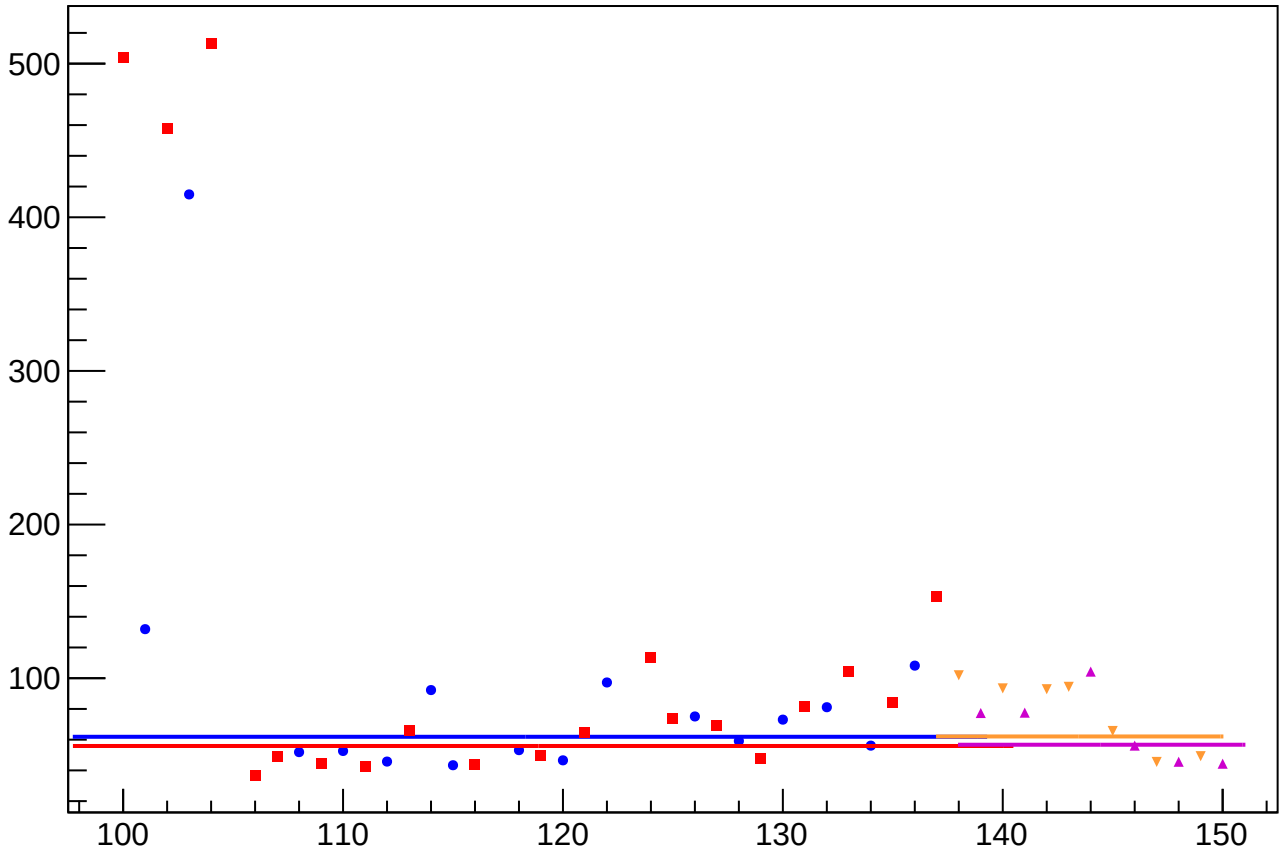
Left: -0.018+/-0.020 $\chi^2$/NDF: 14.2/12

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.026+/-0.019 $\chi^2$/NDF:16.7/21

Out: -0.021+/-0.019 $\chi^2$/NDF:34.1/25

All: -0.023+/-0.013 $\chi^2$/NDF: 50.8/47




Right In: 61.876+/-0.019 $\chi^2$/NDF: 1937953.9/15

Left Out: 62.085+/-0.021 $\chi^2$/NDF:964612.2/6

Right Out: 55.887+/-0.017 $\chi^2$/NDF: 2591275.8/18

Left In: 56.699+/-0.019 $\chi^2$/NDF:800185.7/5

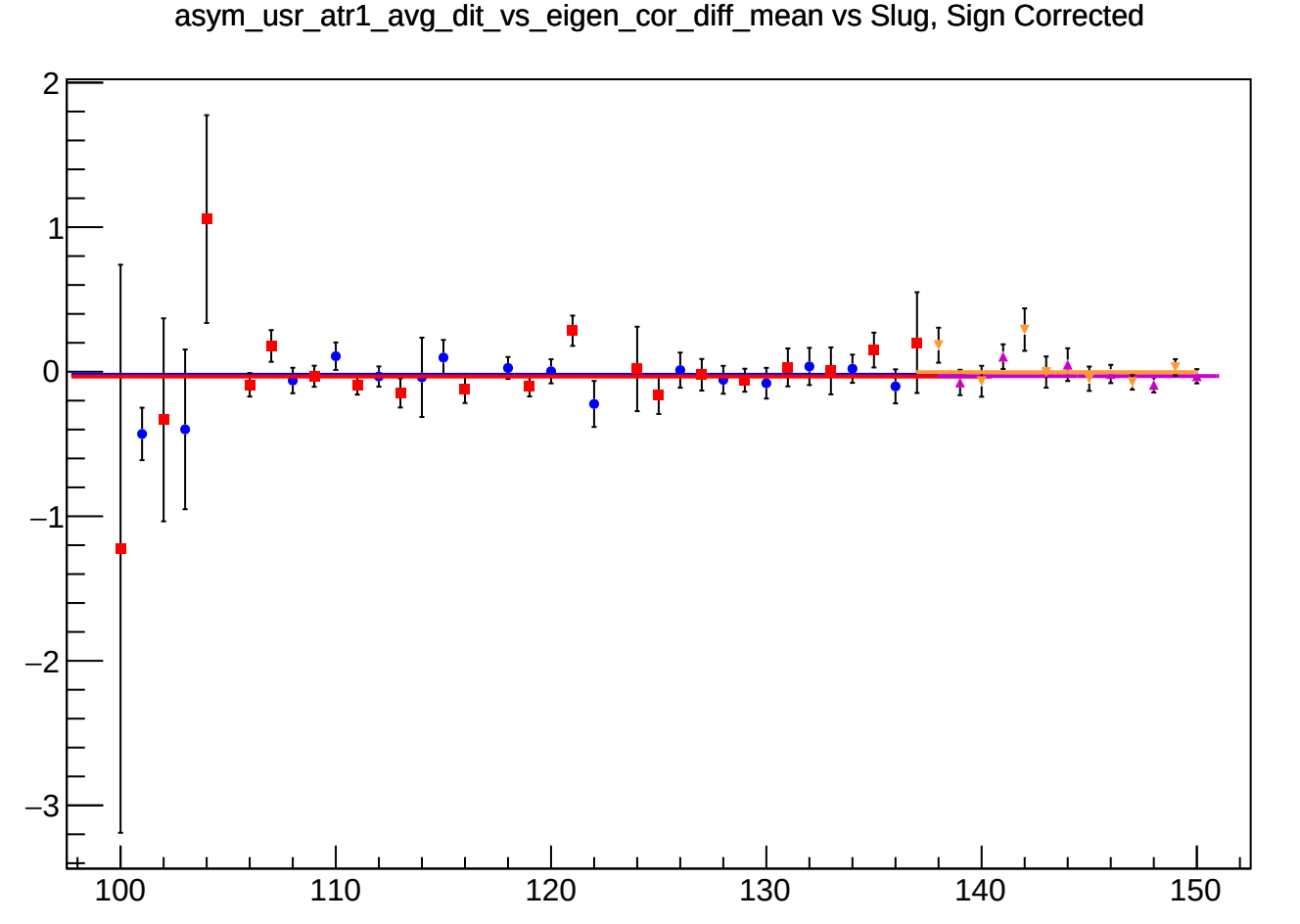
Left: 59.109+/-0.014 $\chi^2$/NDF: 1800459.7/12

Right: 58.651+/-0.013 $\chi^2$/NDF: 4584001.9/34

In: 59.328+/-0.013 $\chi^2$/NDF:2775543.3/21

Out: 58.379+/-0.013 $\chi^2$/NDF:3606989.3/25

All: 58.856+/-0.009 $\chi^2$/NDF: 6385037.3/47




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.003+/-0.030 $\chi^2$/NDF:9.1/6

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.030+/-0.027 $\chi^2$/NDF:4.6/5

Left: -0.018+/-0.020 $\chi^2$/NDF: 14.2/12

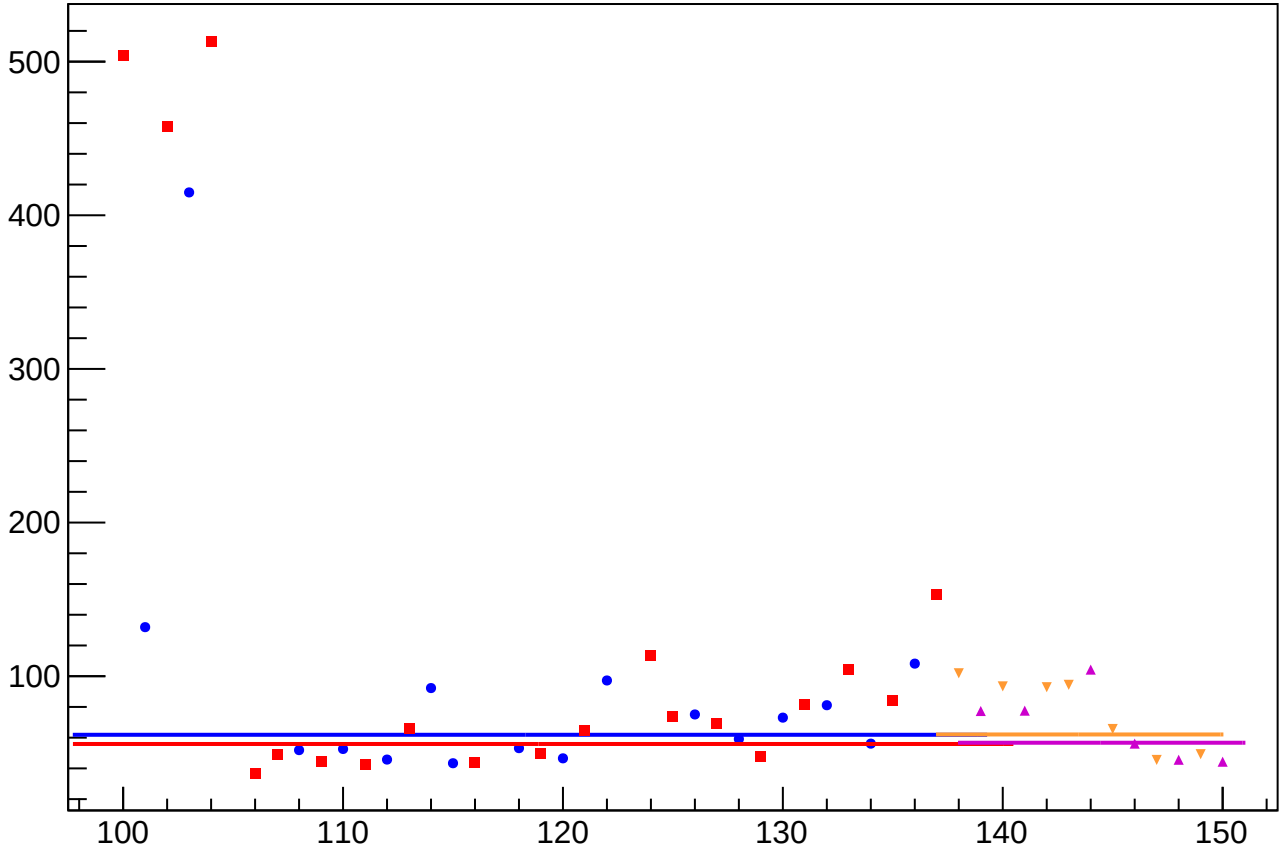
Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.026+/-0.019 $\chi^2$/NDF:16.7/21

Out: -0.021+/-0.019 $\chi^2$/NDF:34.1/25

All: -0.023+/-0.013 $\chi^2$/NDF: 50.8/47

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 61.876+/-0.019 $\chi^2$/NDF: 1937953.9/15

Left Out: 62.085+/-0.021 $\chi^2$/NDF:964612.2/6

Right Out: 55.887+/-0.017 $\chi^2$/NDF: 2591275.8/18

Left In: 56.699+/-0.019 $\chi^2$/NDF:800185.7/5

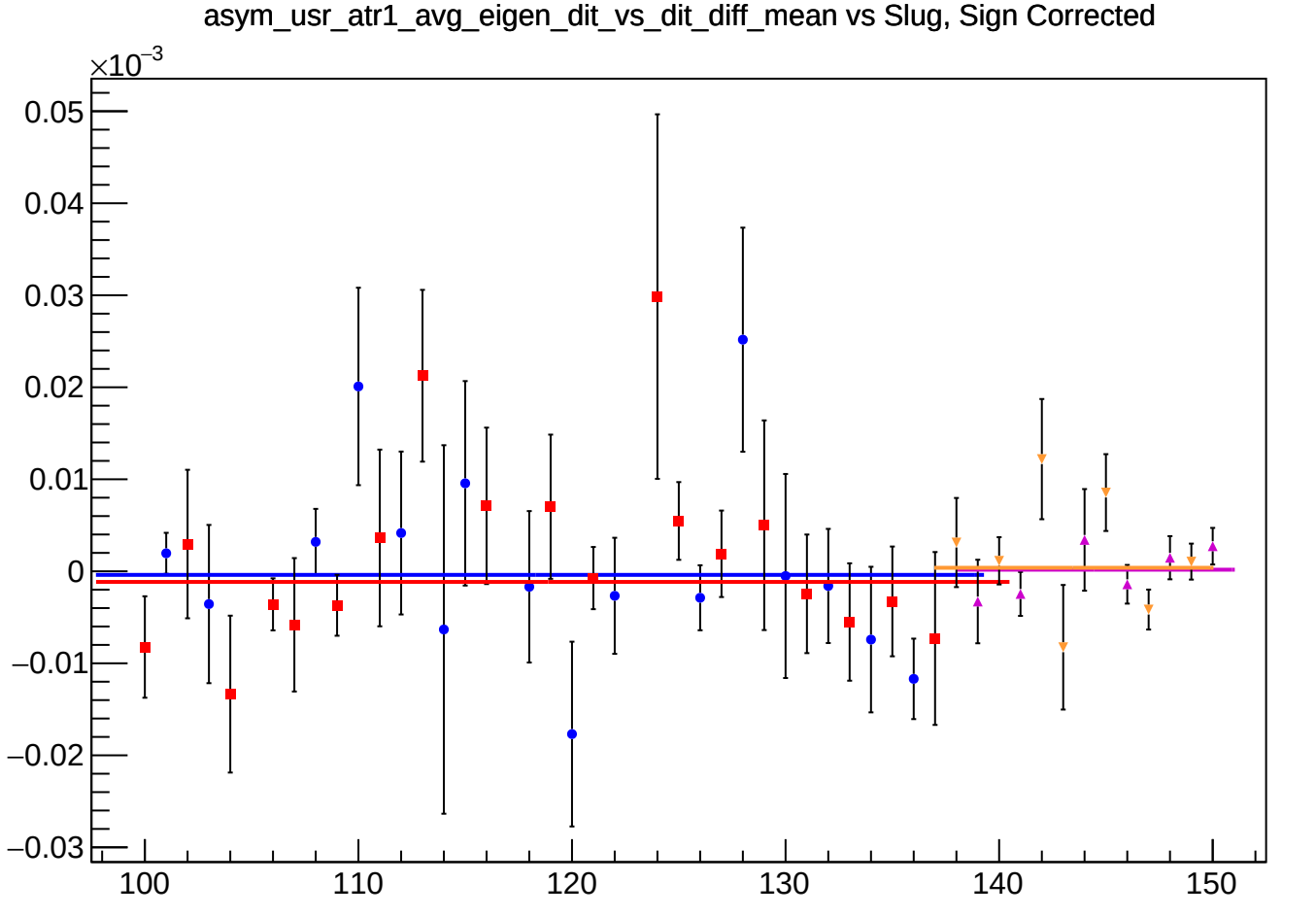
Left: 59.109+/-0.014 $\chi^2$/NDF: 1800459.7/12

Right: 58.651+/-0.013 $\chi^2$/NDF: 4584001.9/34

In: 59.328+/-0.013 $\chi^2$/NDF:2775543.3/21

Out: 58.379+/-0.013 $\chi^2$/NDF:3606989.3/25

All: 58.856+/-0.009 $\chi^2$/NDF: 6385037.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.7/5

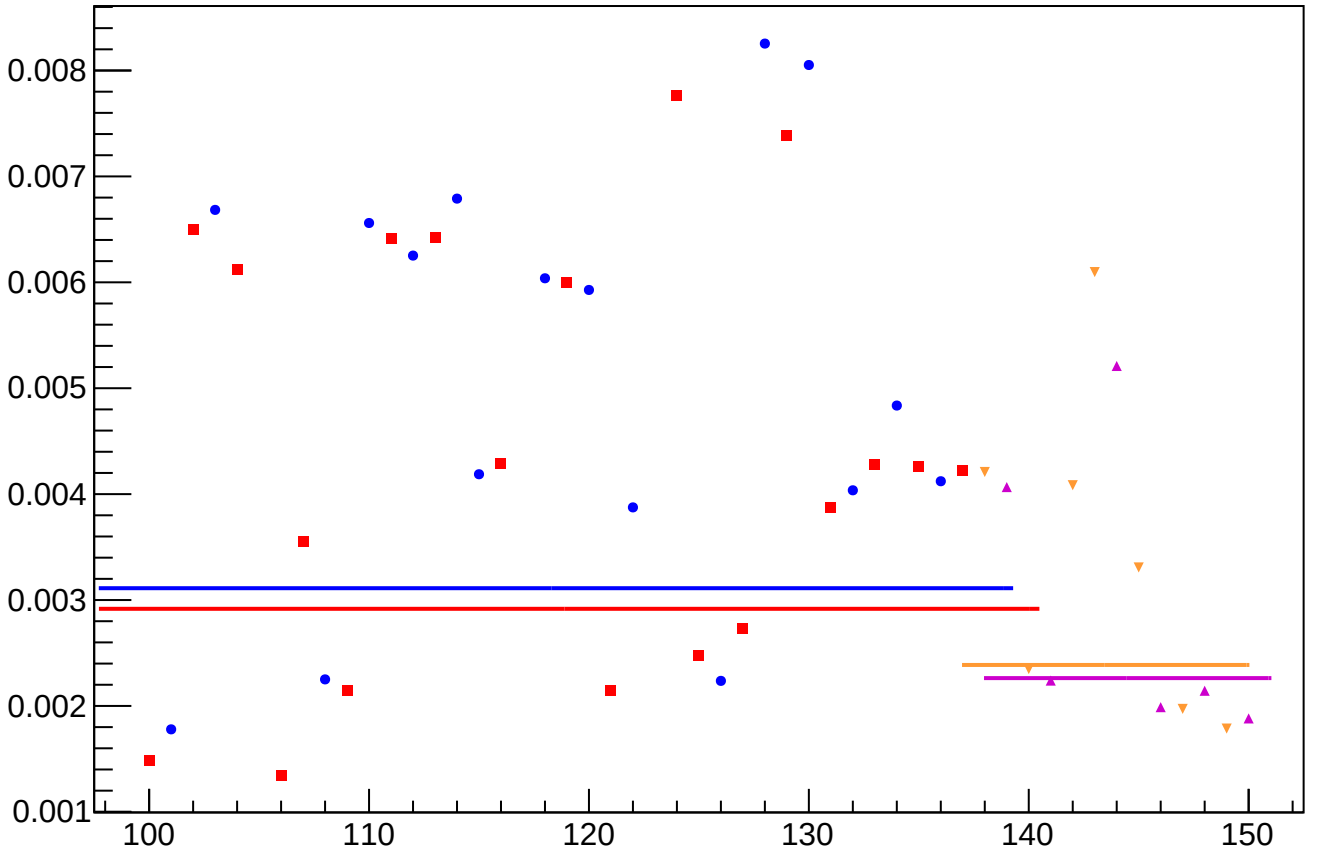
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:27.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:34.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 62.3/47




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3283915.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1378336.1/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3295506.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:998193.2/5

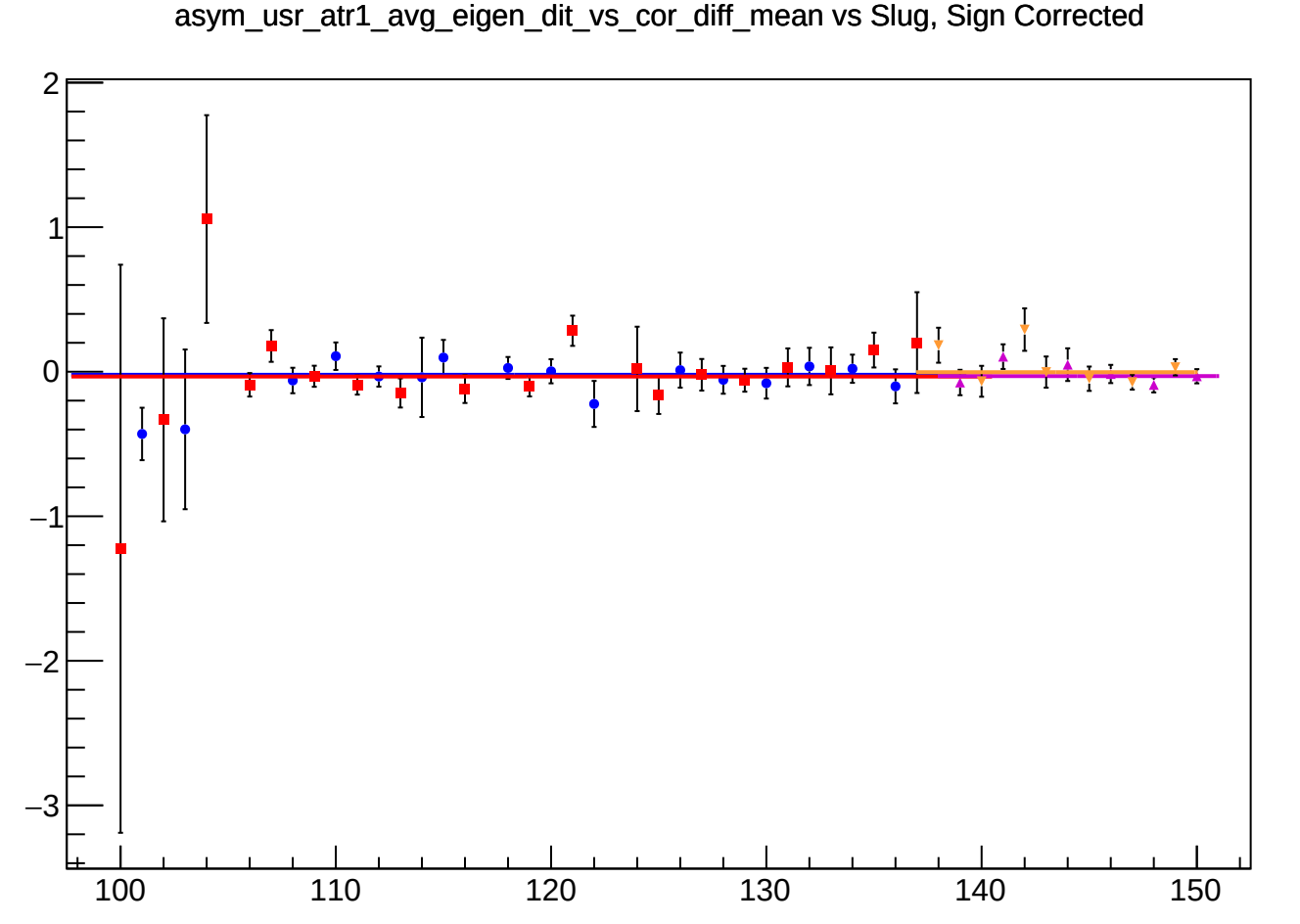
Left: 0.002+/-0.000 $\chi^2$/NDF: 2389456.2/12

Right: 0.003+/-0.000 $\chi^2$/NDF: 6602078.2/34

In: 0.003+/-0.000 $\chi^2$/NDF:4785700.1/21

Out: 0.003+/-0.000 $\chi^2$/NDF:4869963.0/25

All: 0.003+/-0.000 $\chi^2$/NDF: 9658084.4/47




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.003+/-0.030 $\chi^2$/NDF:9.1/6

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.030+/-0.027 $\chi^2$/NDF:4.6/5

Left: -0.018+/-0.020 $\chi^2$/NDF: 14.2/12

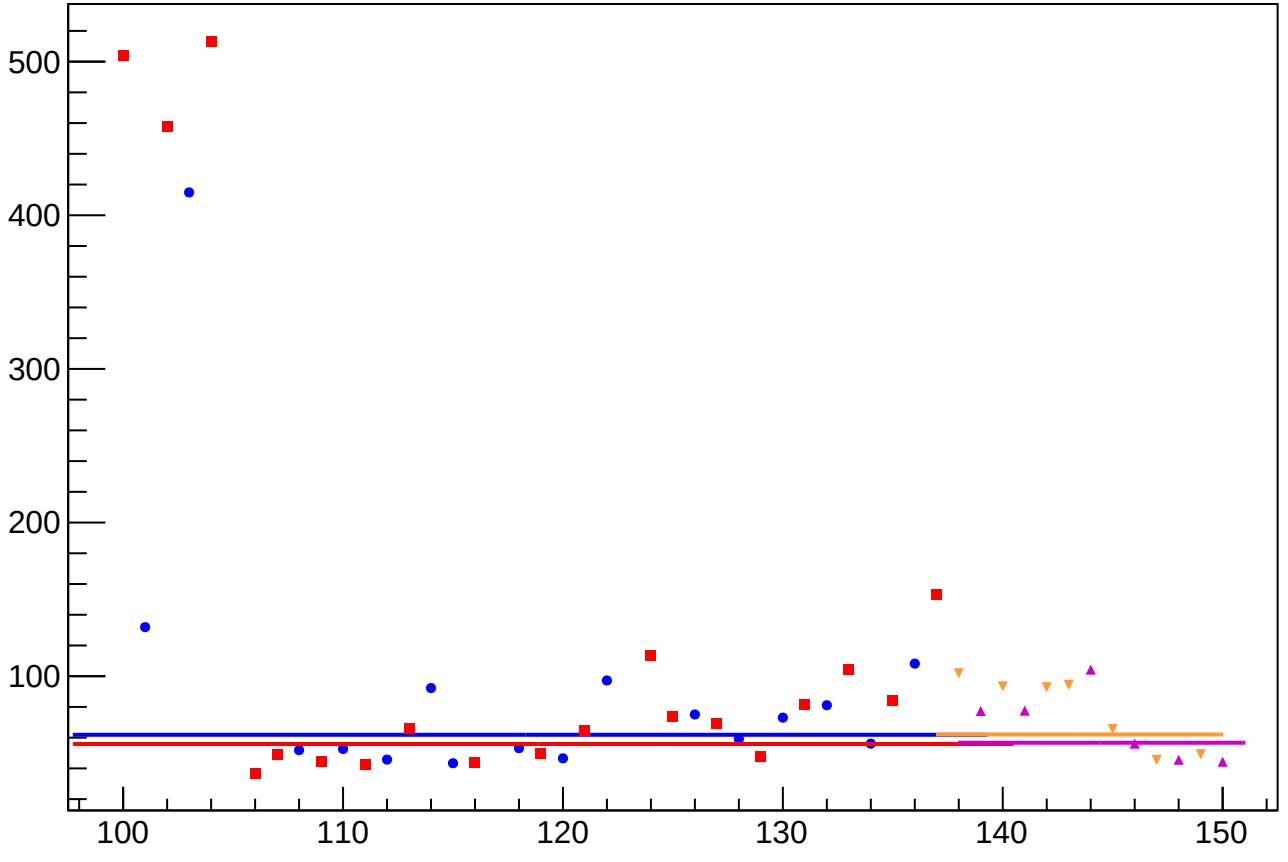
Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.026+/-0.019 $\chi^2$/NDF:16.7/21

Out: -0.021+/-0.019 $\chi^2$/NDF:34.1/25

All: -0.023+/-0.013 $\chi^2$/NDF: 50.9/47

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 62.085+/-0.021 $\chi^2$/NDF:964613.7/6

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 56.699+/-0.019 $\chi^2$/NDF:800182.7/5

Left: 59.109+/-0.014 $\chi^2$/NDF: 1800457.3/12

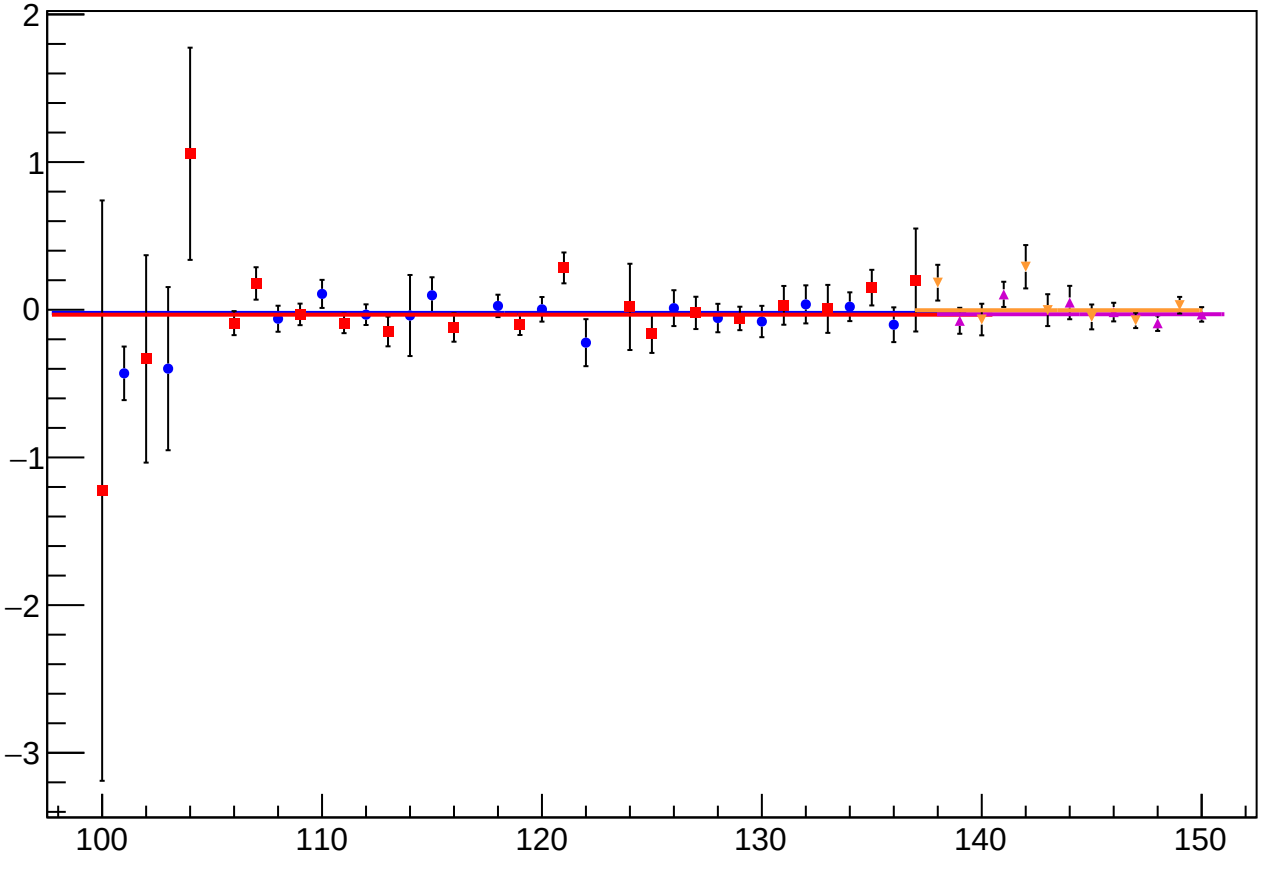
Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 59.328+/-0.013 $\chi^2$/NDF:2775479.1/21

Out: 58.378+/-0.013 $\chi^2$/NDF:3606964.3/25

All: 58.855+/-0.009 $\chi^2$/NDF: 6384949.5/47

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.003+/-0.030 $\chi^2$/NDF:9.1/6

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.030+/-0.027 $\chi^2$/NDF:4.6/5

Left: -0.018+/-0.020 $\chi^2$/NDF: 14.2/12

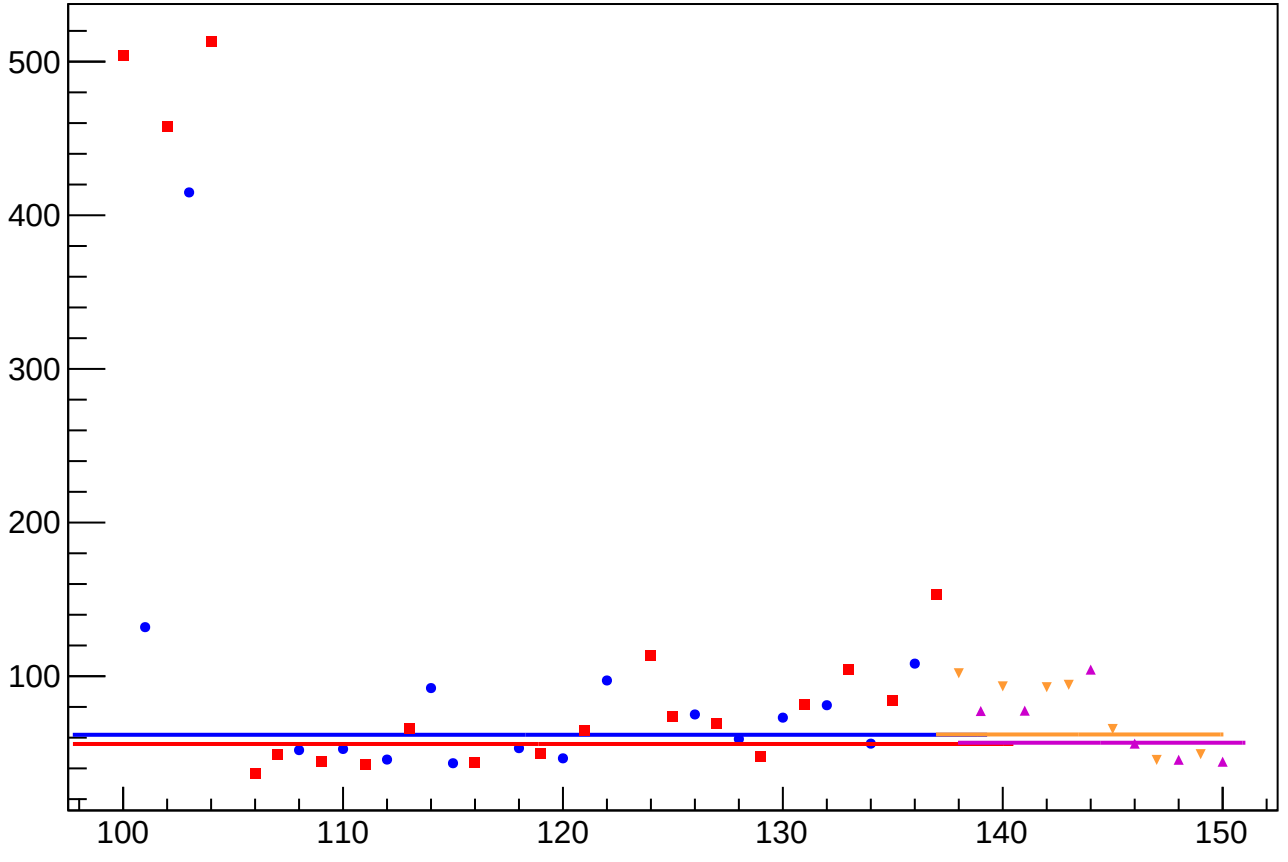
Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.026+/-0.019 $\chi^2$/NDF:16.7/21

Out: -0.021+/-0.019 $\chi^2$/NDF:34.1/25

All: -0.023+/-0.013 $\chi^2$/NDF: 50.9/47

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 62.085+/-0.021 $\chi^2$/NDF:964613.7/6

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 56.699+/-0.019 $\chi^2$/NDF:800182.7/5

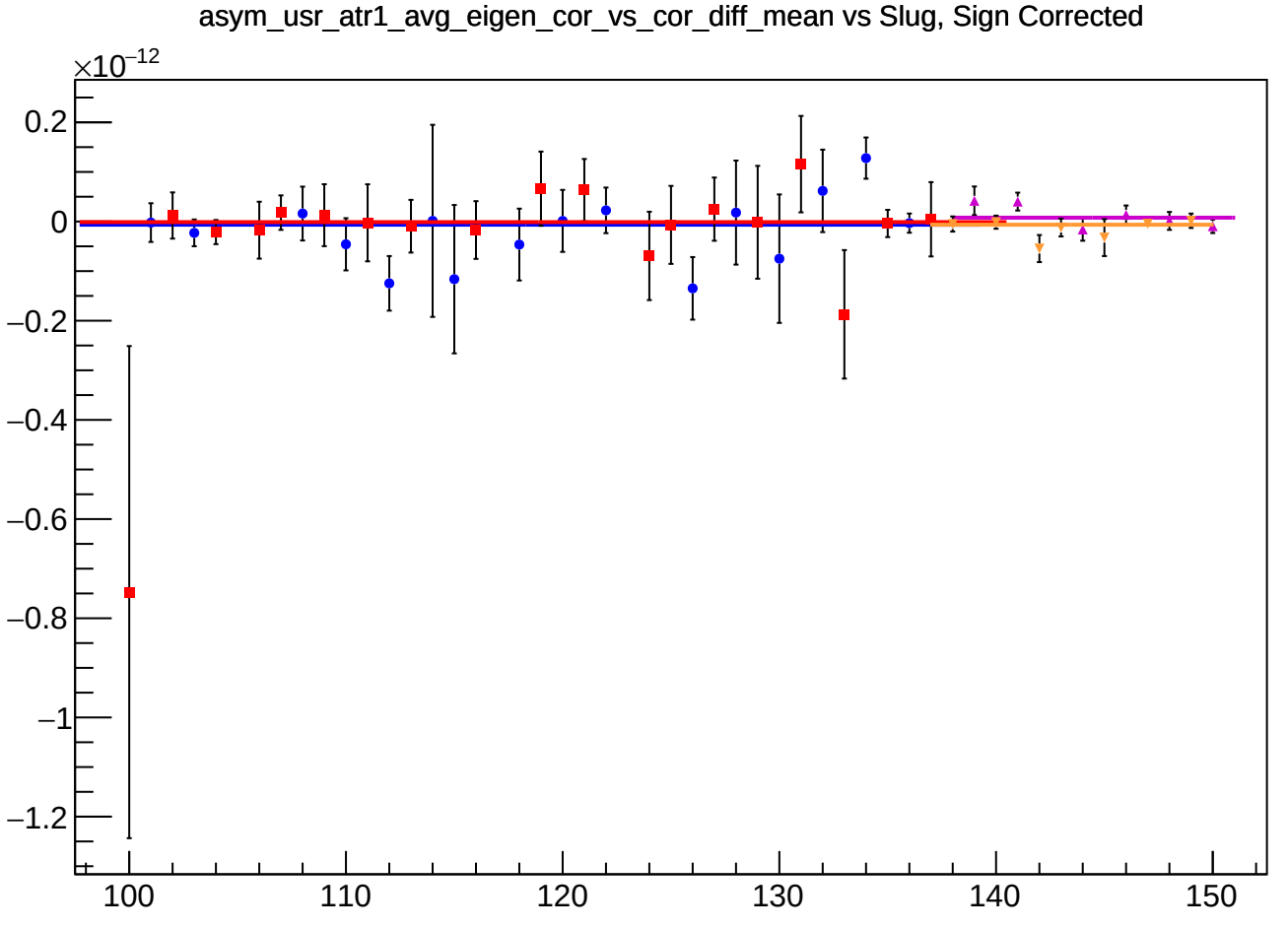
Left: 59.109+/-0.014 $\chi^2$/NDF: 1800457.3/12

Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 59.328+/-0.013 $\chi^2$/NDF:2775479.1/21

Out: 58.378+/-0.013 $\chi^2$/NDF:3606964.3/25

All: 58.855+/-0.009 $\chi^2$/NDF: 6384949.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 9.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.5/5

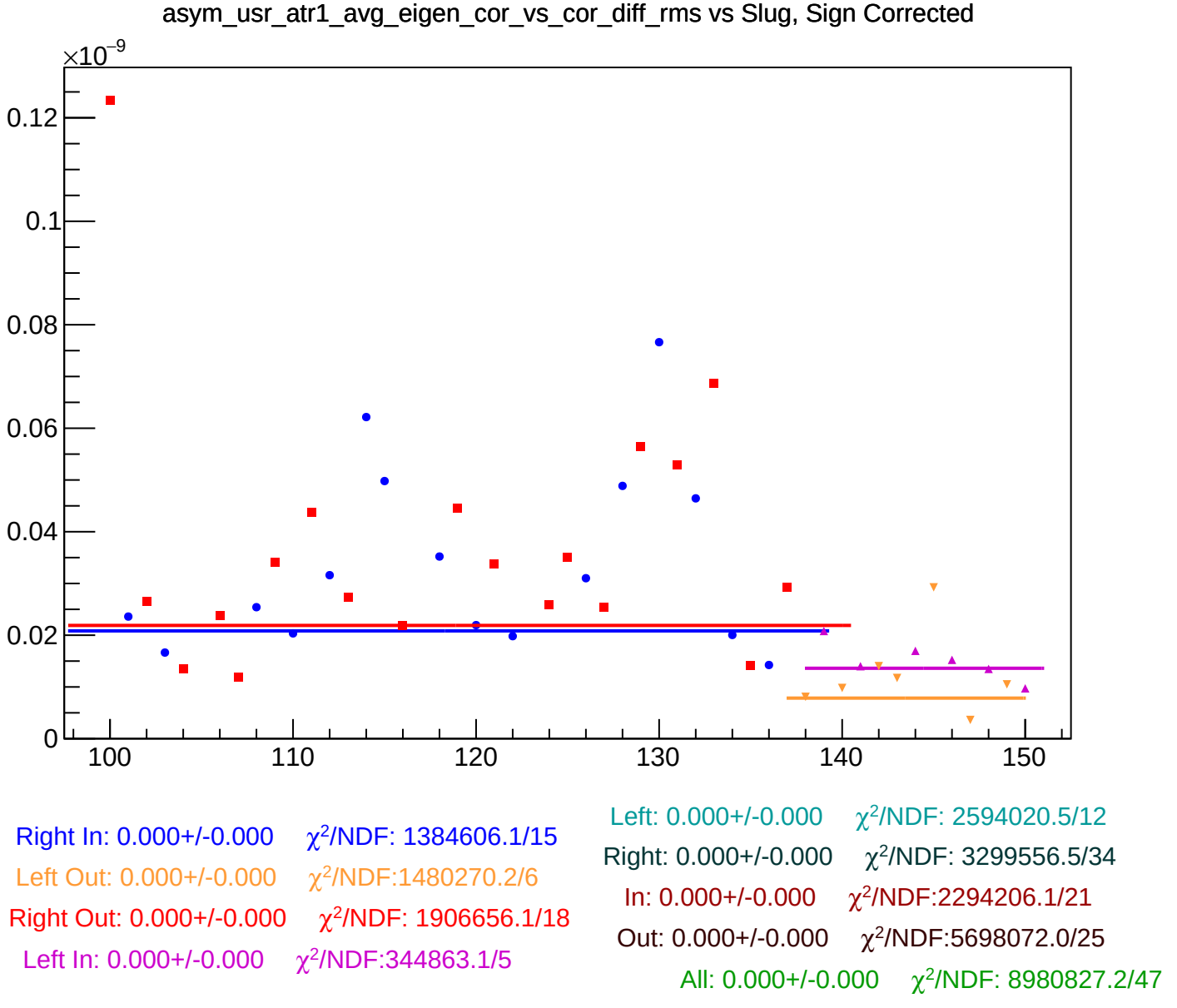
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.0/12

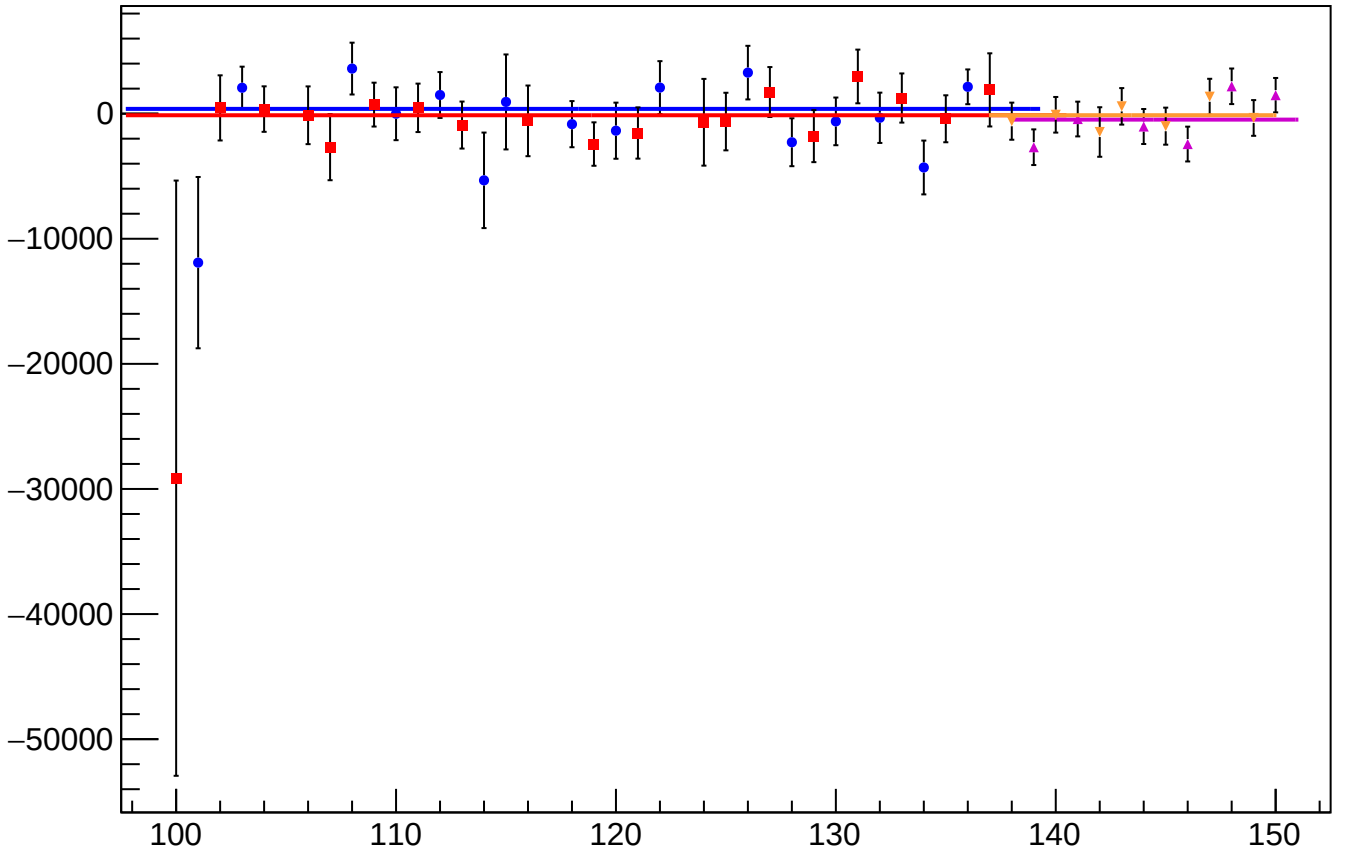
Right: -0.000+/-0.000 $\chi^2$/NDF: 32.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:31.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:14.1/25

All: -0.000+/-0.000 $\chi^2$/NDF: 46.5/47


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1384606.1/15
Left Out: 0.000+/-0.000 χ²/NDF:1480270.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 1906656.1/18
Left In: 0.000+/-0.000 χ²/NDF:344863.1/5
Left: 0.000+/-0.000 χ²/NDF: 2594020.5/12
Right: 0.000+/-0.000 χ²/NDF: 3299556.5/34
In: 0.000+/-0.000 χ²/NDF:2294206.1/21
Out: 0.000+/-0.000 χ²/NDF:5698072.0/25
All: 0.000+/-0.000 χ²/NDF: 8980827.2/47




Right In: 381.403+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -123.859+/-567.393 $\chi^2$/NDF:2.2/6

Right Out: -127.929+/-500.988 $\chi^2$/NDF: 10.0/18

Left In: -477.160+/-571.499 $\chi^2$/NDF:10.1/5

Left: -299.236+/-402.651 $\chi^2$/NDF: 12.5/12

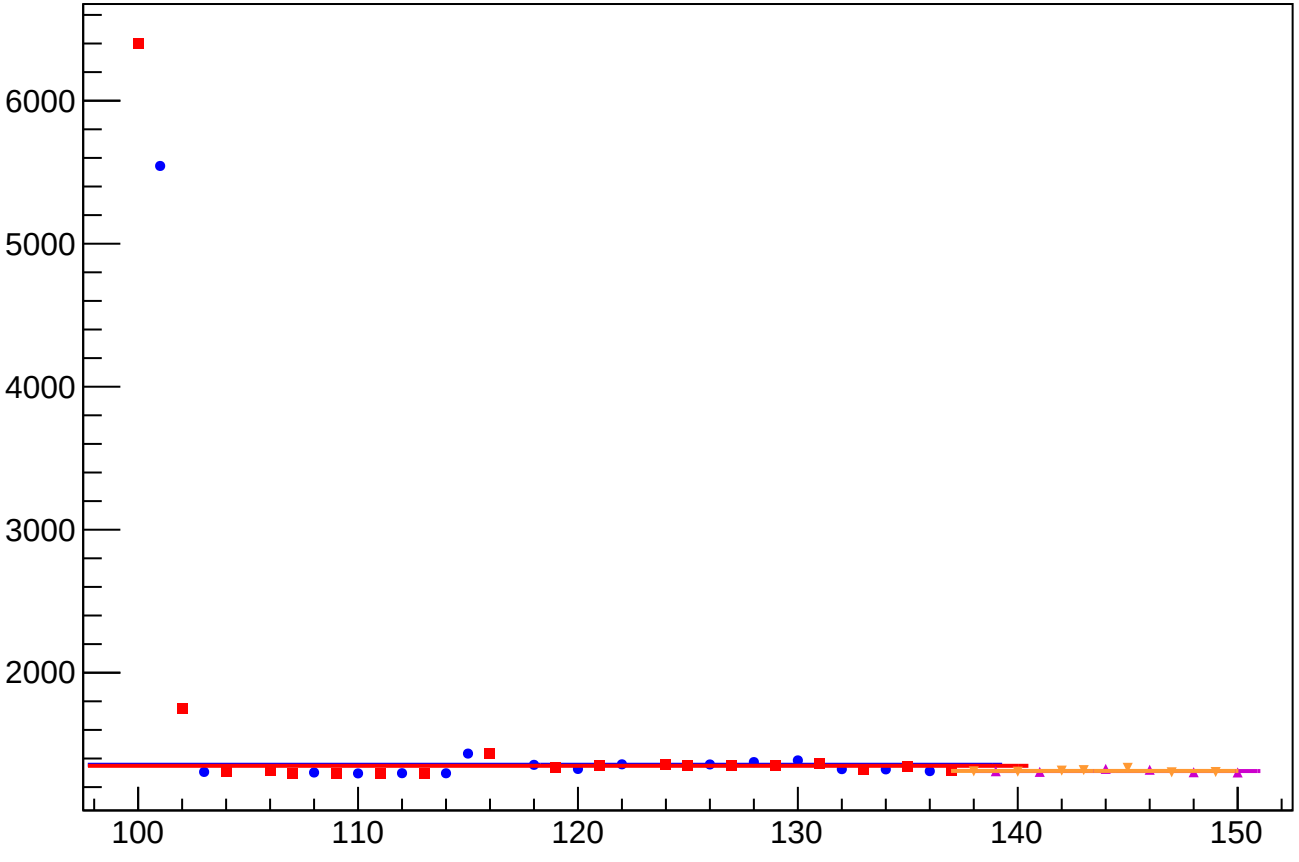
Right: 118.340+/-360.045 $\chi^2$/NDF: 32.0/34

In: -5.648+/-383.719 $\chi^2$/NDF:32.8/21

Out: -126.146+/-375.546 $\chi^2$/NDF:12.2/25

All: -67.194+/-268.394 $\chi^2$/NDF: 45.1/47

# reg_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760266.3/15

Left Out: 1313.202+/-0.401 $\chi^2$/NDF:639.9/6

Right Out: 1348.975+/-0.354 $\chi^2$/NDF: 147265.6/18

Left In: 1312.288+/-0.404 $\chi^2$/NDF:524.9/5

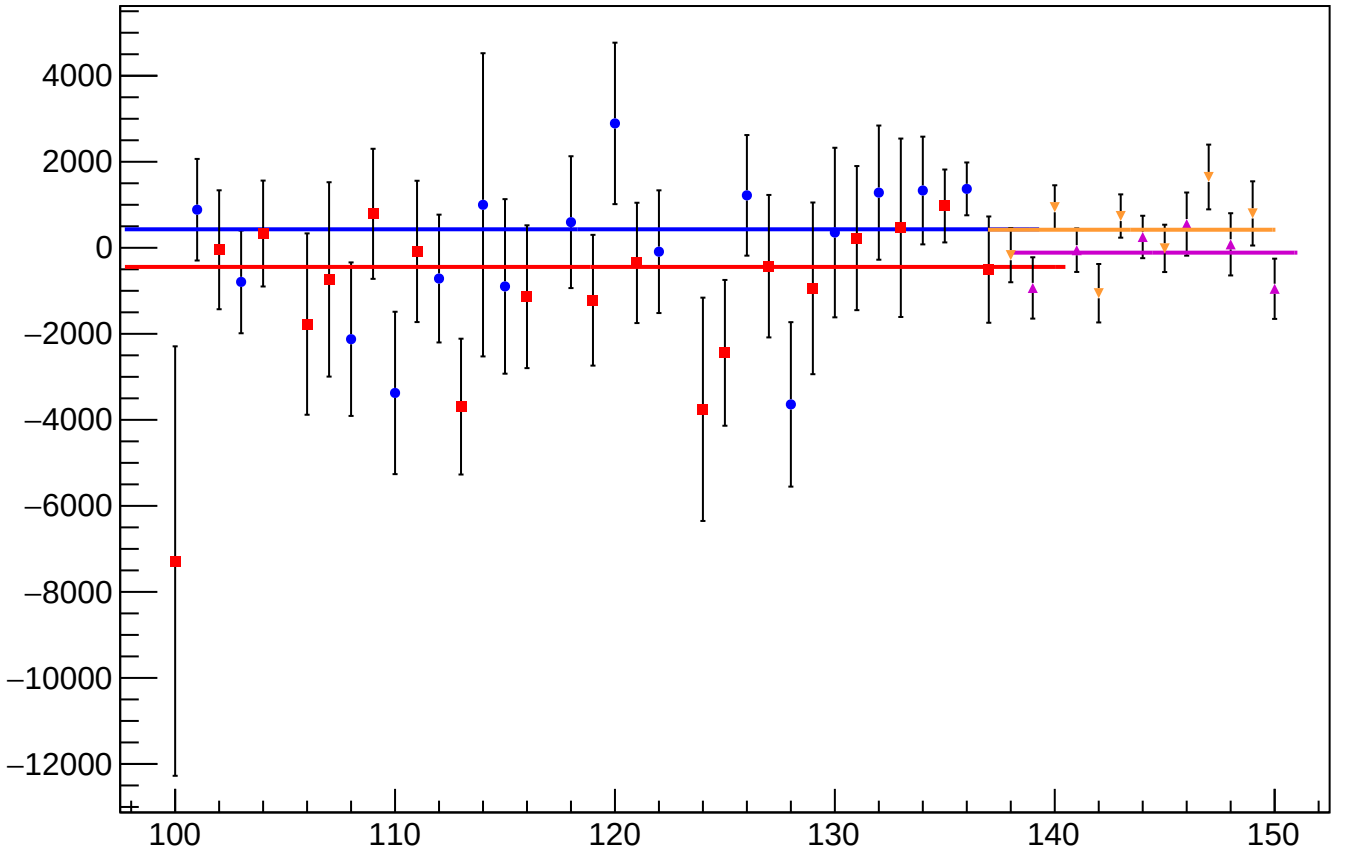
Left: 1312.748+/-0.285 $\chi^2$/NDF: 1167.3/12

Right: 1352.564+/-0.255 $\chi^2$/NDF: 907744.1/34

In: 1336.512+/-0.271 $\chi^2$/NDF:767334.2/21

Out: 1333.303+/-0.266 $\chi^2$/NDF:152372.6/25

All: 1334.873+/-0.190 $\chi^2$/NDF: 919778.2/47




Right In: 430.363+/-338.459 $\chi^2$/NDF: 18.2/15

Left Out: 419.853+/-227.402 $\chi^2$/NDF:10.6/6

Right Out: -444.555+/-355.594 $\chi^2$/NDF: 14.4/18

Left In: -112.799+/-251.658 $\chi^2$/NDF:4.2/5

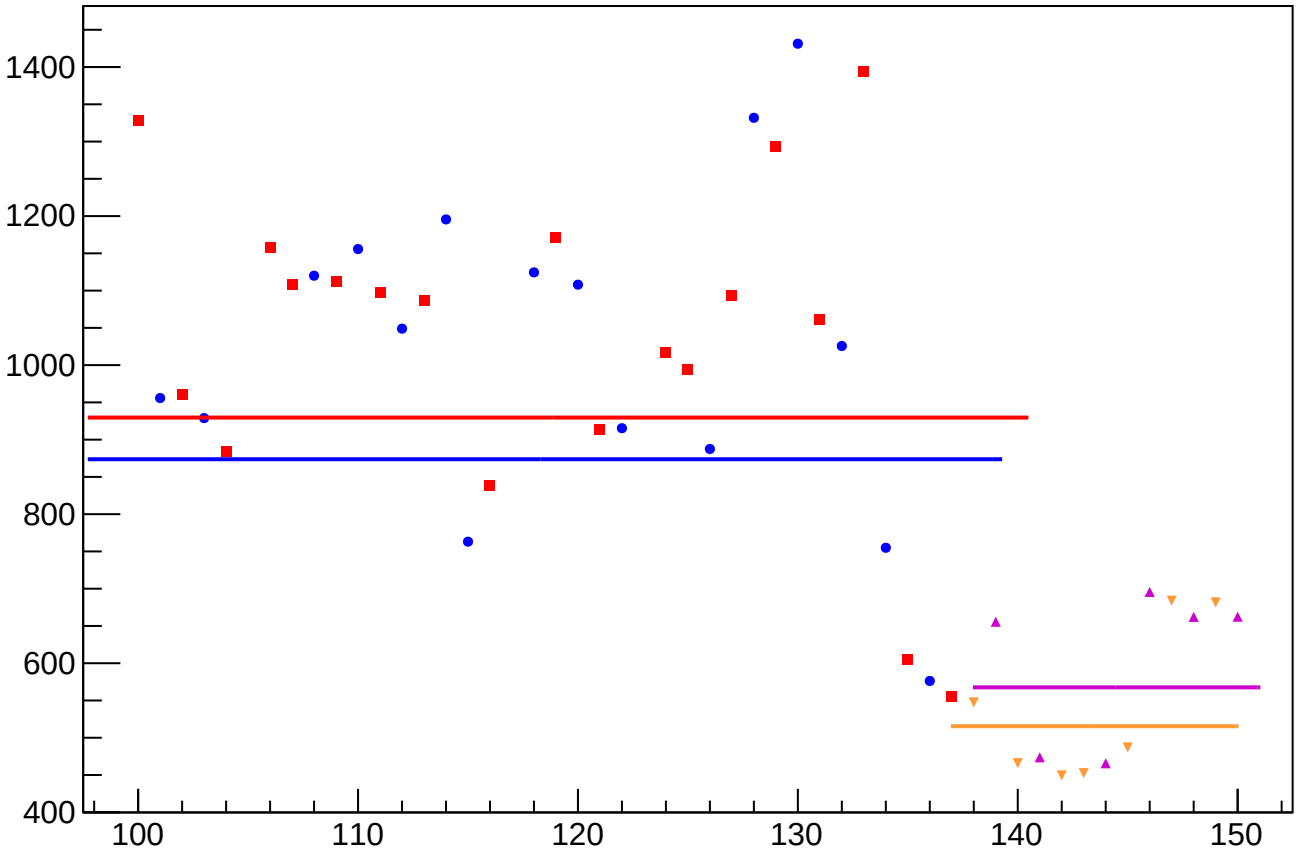
Left: 180.428+/-168.723 $\chi^2$/NDF: 17.3/12

Right: 14.491+/-245.161 $\chi^2$/NDF: 35.8/34

In: 80.579+/-201.951 $\chi^2$/NDF:24.1/21

Out: 168.954+/-191.578 $\chi^2$/NDF:29.2/25

All: 127.095+/-138.988 $\chi^2$/NDF: 53.4/47




Right In: 873.733+/-0.239 $\chi^2$/NDF: 1014860.8/15

Left Out: 515.465+/-0.161 $\chi^2$/NDF:278784.0/6

Right Out: 929.637+/-0.251 $\chi^2$/NDF: 859936.0/18

Left In: 567.628+/-0.178 $\chi^2$/NDF:316361.3/5

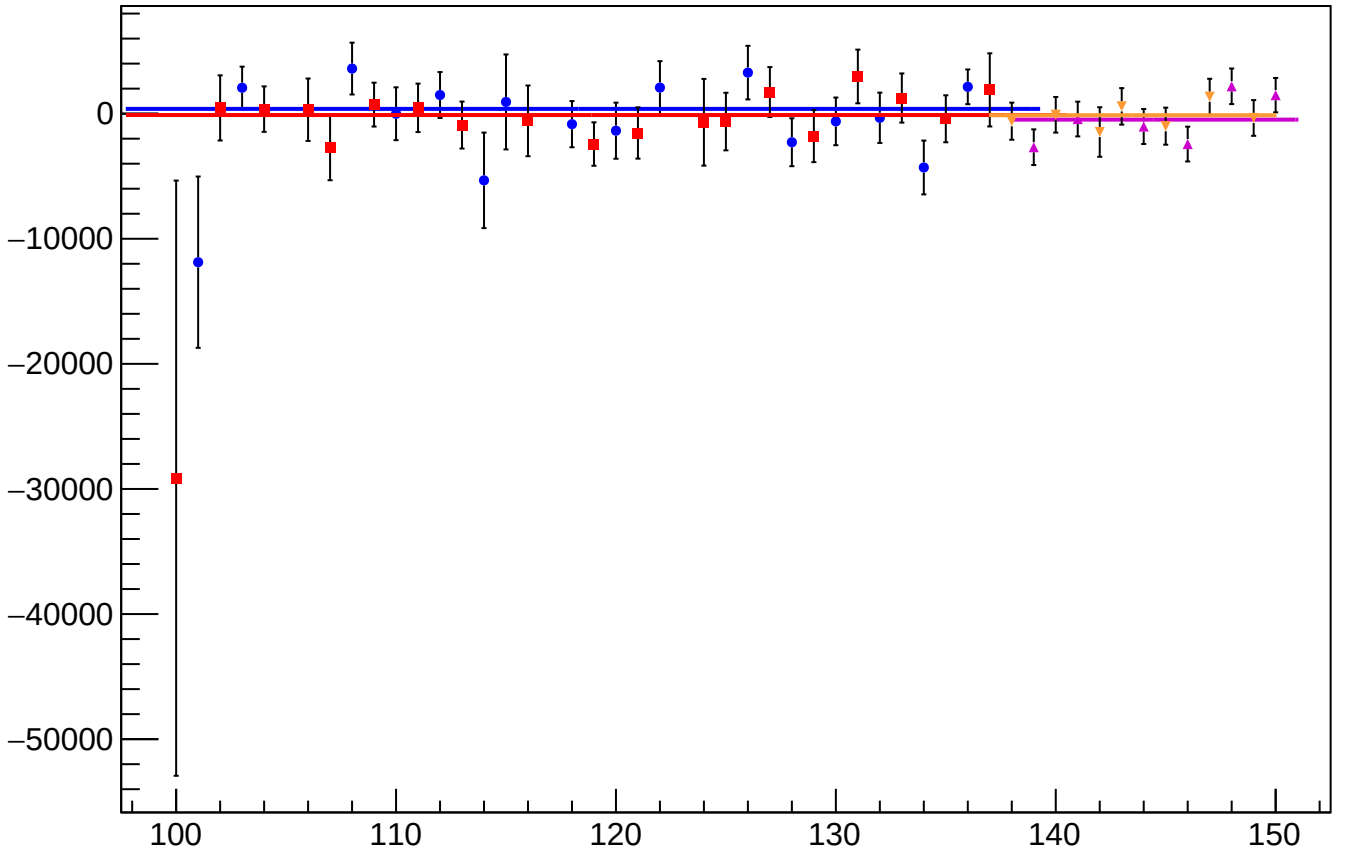
Left: 538.912+/-0.119 $\chi^2$/NDF: 642448.8/12

Right: 900.305+/-0.173 $\chi^2$/NDF: 1900732.3/34

In: 676.608+/-0.143 $\chi^2$/NDF:2384704.3/21

Out: 635.680+/-0.135 $\chi^2$/NDF:3064396.8/25

All: 655.066+/-0.098 $\chi^2$/NDF: 5492336.9/47




Right In: 381.712+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -123.865+/-567.393 $\chi^2$/NDF:2.2/6

Right Out: -110.280+/-502.698 $\chi^2$/NDF: 10.0/18

Left In: -477.226+/-571.499 $\chi^2$/NDF:10.1/5

Left: -299.272+/-402.651 $\chi^2$/NDF: 12.5/12

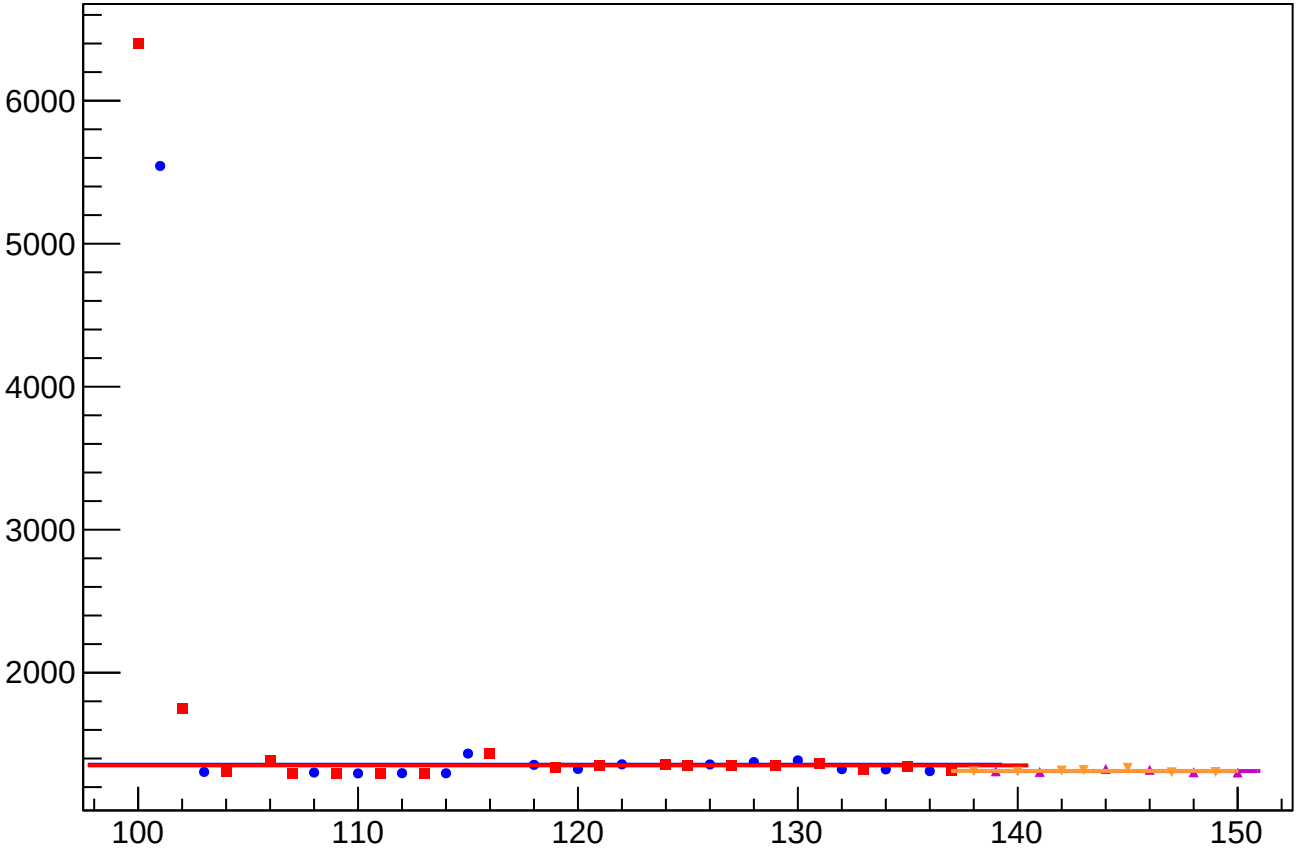
Right: 128.442+/-360.678 $\chi^2$/NDF: 32.0/34

In: -5.508+/-383.719 $\chi^2$/NDF:32.8/21

Out: -116.254+/-376.265 $\chi^2$/NDF:12.2/25

All: -61.967+/-268.656 $\chi^2$/NDF: 45.1/47

# cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1313.202+/-0.401 $\chi^2$/NDF:639.9/6

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1312.288+/-0.404 $\chi^2$/NDF:524.9/5

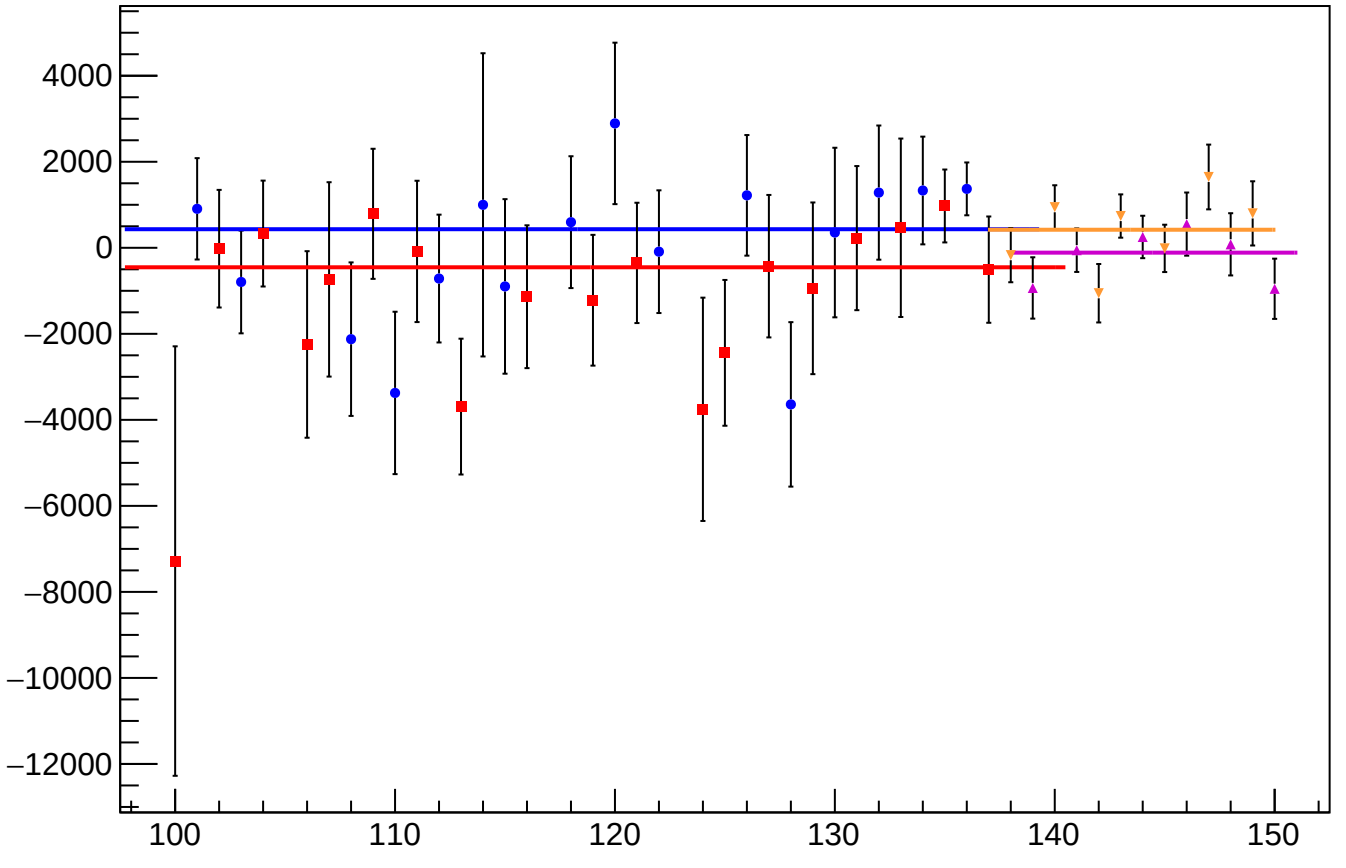
Left: 1312.748+/-0.285 $\chi^2$/NDF: 1167.3/12

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1336.512+/-0.271 $\chi^2$/NDF:767333.3/21

Out: 1334.985+/-0.266 $\chi^2$/NDF:153227.9/25

All: 1335.734+/-0.190 $\chi^2$/NDF: 920577.3/47




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 419.780+/-227.403 $\chi^2$/NDF:10.6/6

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -112.807+/-251.654 $\chi^2$/NDF:4.2/5

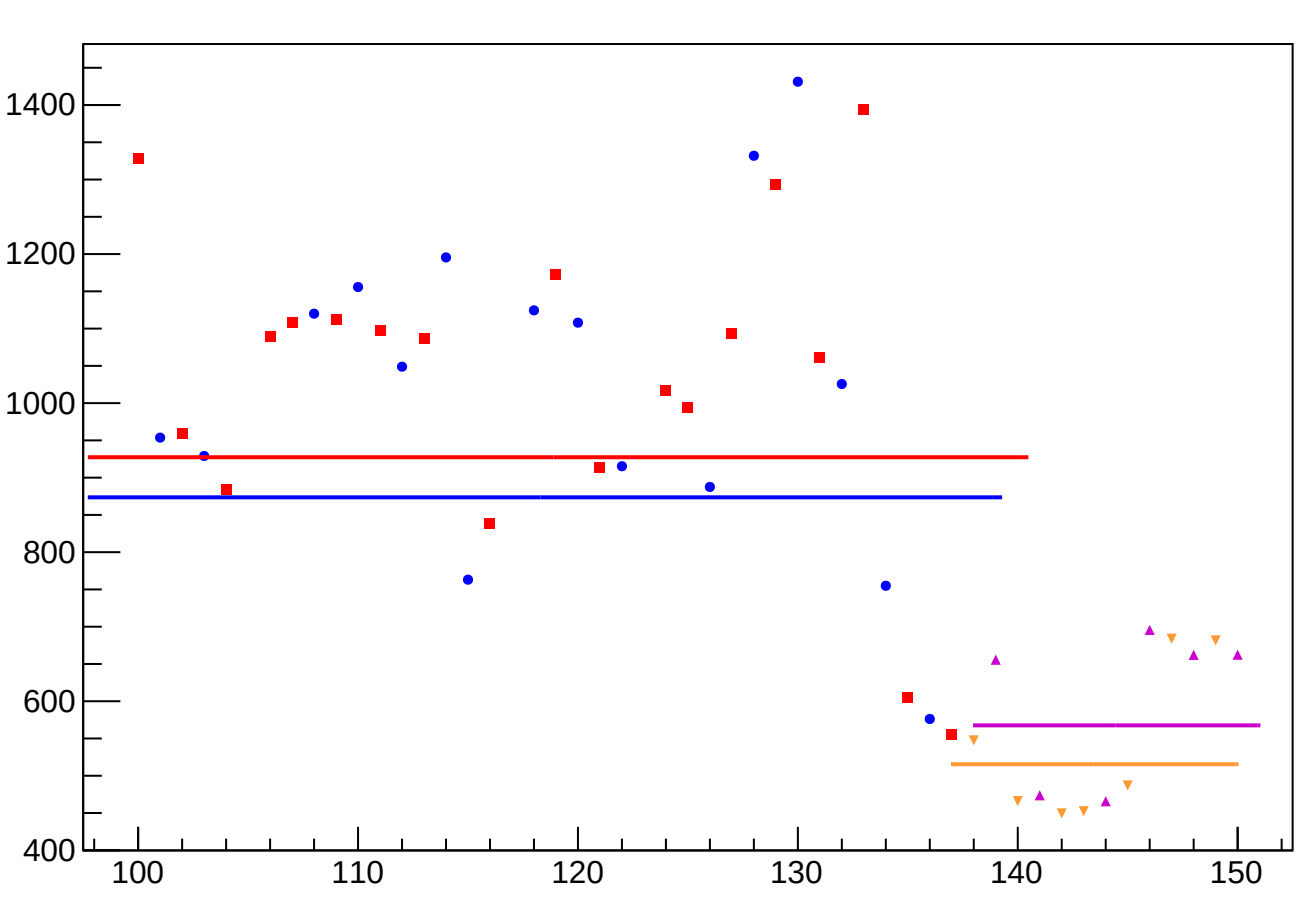
Left: 180.378+/-168.722 $\chi^2$/NDF: 17.3/12

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 81.243+/-201.937 $\chi^2$/NDF:24.1/21

Out: 166.442+/-191.579 $\chi^2$/NDF:29.6/25

All: 126.083+/-138.984 $\chi^2$/NDF: 53.8/47




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 515.469+/-0.161 $\chi^2$/NDF:278784.4/6

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 567.618+/-0.178 $\chi^2$/NDF:316387.6/5

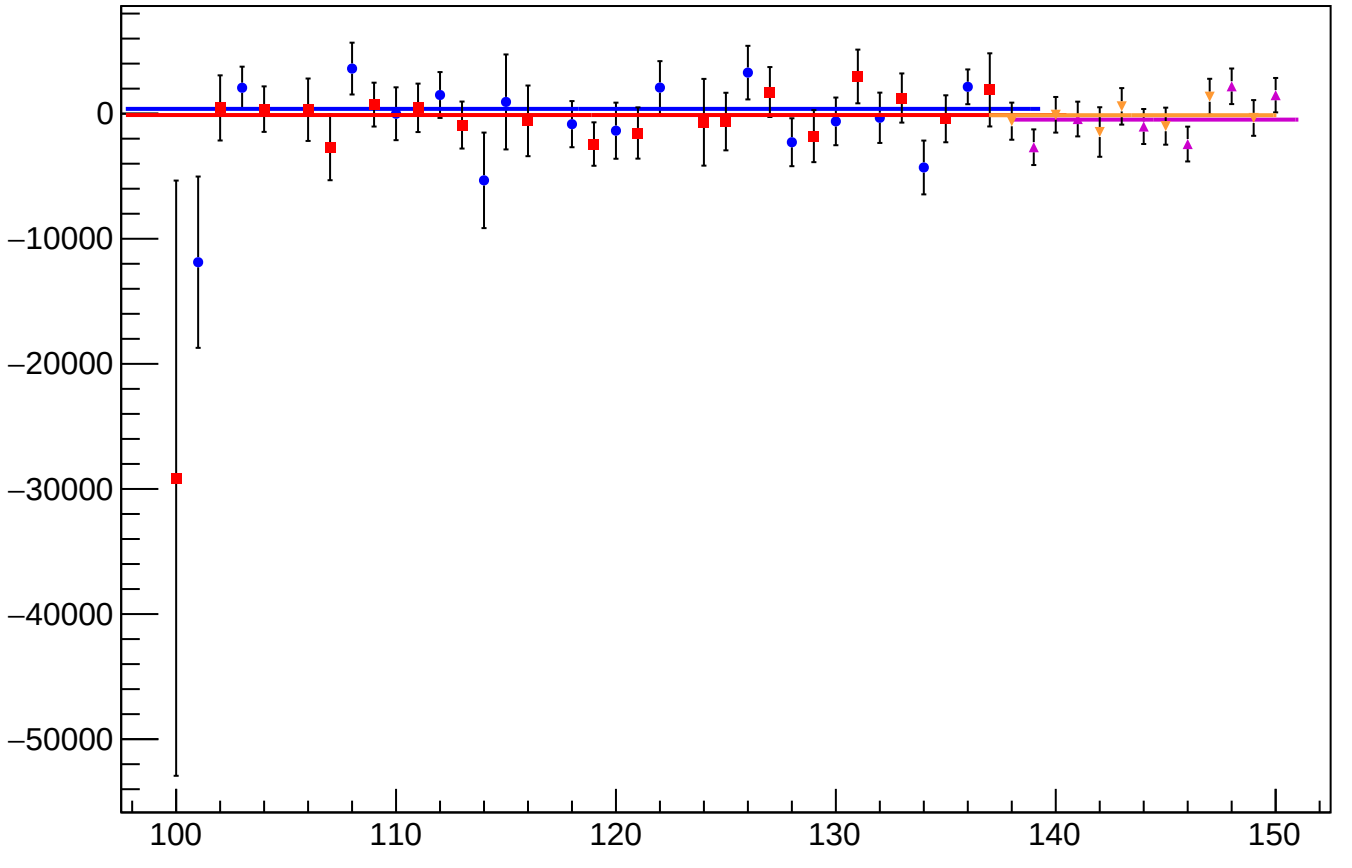
Left: 538.911+/-0.119 $\chi^2$/NDF: 642450.5/12

Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 676.578+/-0.143 $\chi^2$/NDF:2383711.2/21

Out: 635.035+/-0.135 $\chi^2$/NDF:3031081.7/25

All: 654.714+/-0.098 $\chi^2$/NDF: 5459341.1/47




Right In: 381.712+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -123.865+/-567.393 $\chi^2$/NDF:2.2/6

Right Out: -110.280+/-502.698 $\chi^2$/NDF: 10.0/18

Left In: -477.226+/-571.499 $\chi^2$/NDF:10.1/5

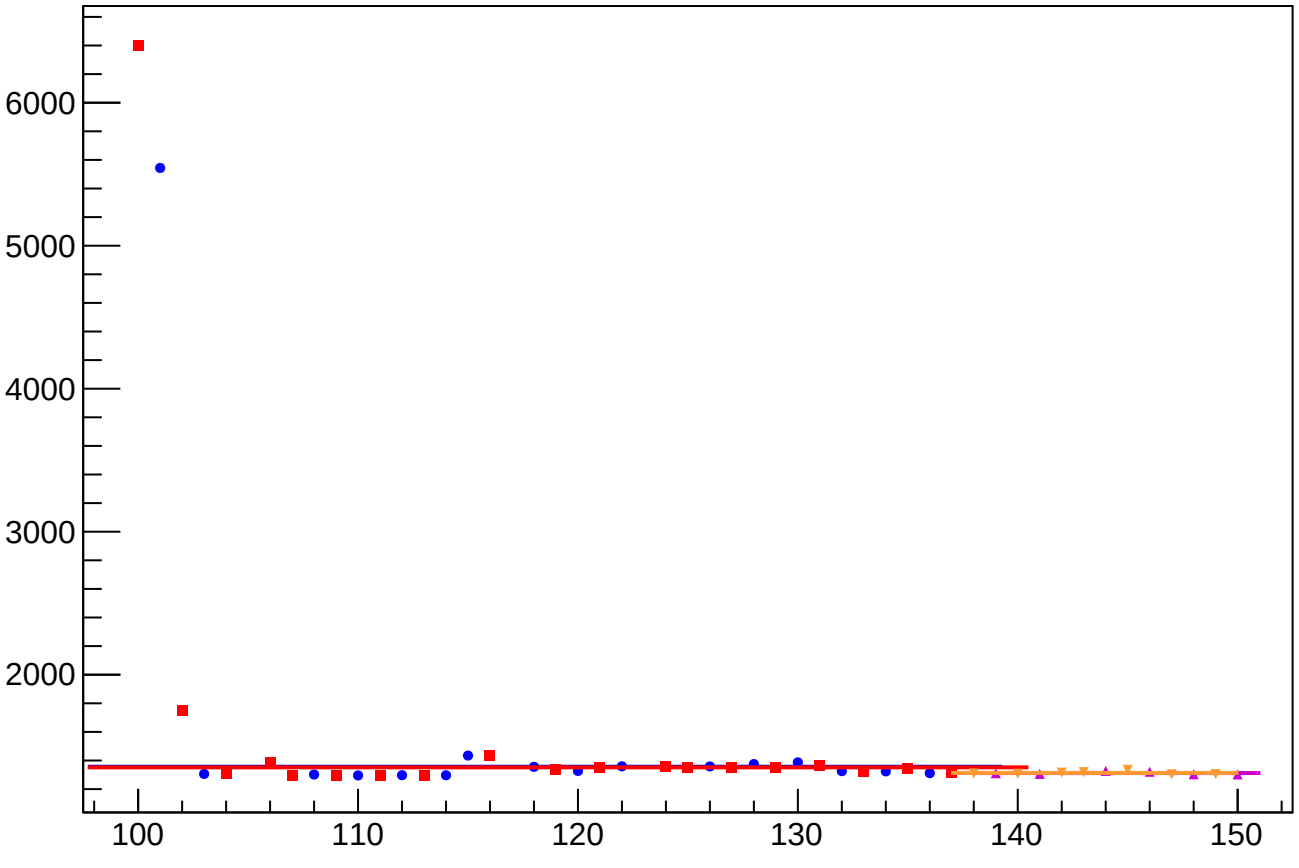
Left: -299.272+/-402.651 $\chi^2$/NDF: 12.5/12

Right: 128.442+/-360.678 $\chi^2$/NDF: 32.0/34

In: -5.508+/-383.719 $\chi^2$/NDF:32.8/21

Out: -116.254+/-376.265 $\chi^2$/NDF:12.2/25

All: -61.967+/-268.656 $\chi^2$/NDF: 45.1/47




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1313.202+/-0.401 $\chi^2$/NDF:639.9/6

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1312.288+/-0.404 $\chi^2$/NDF:524.9/5

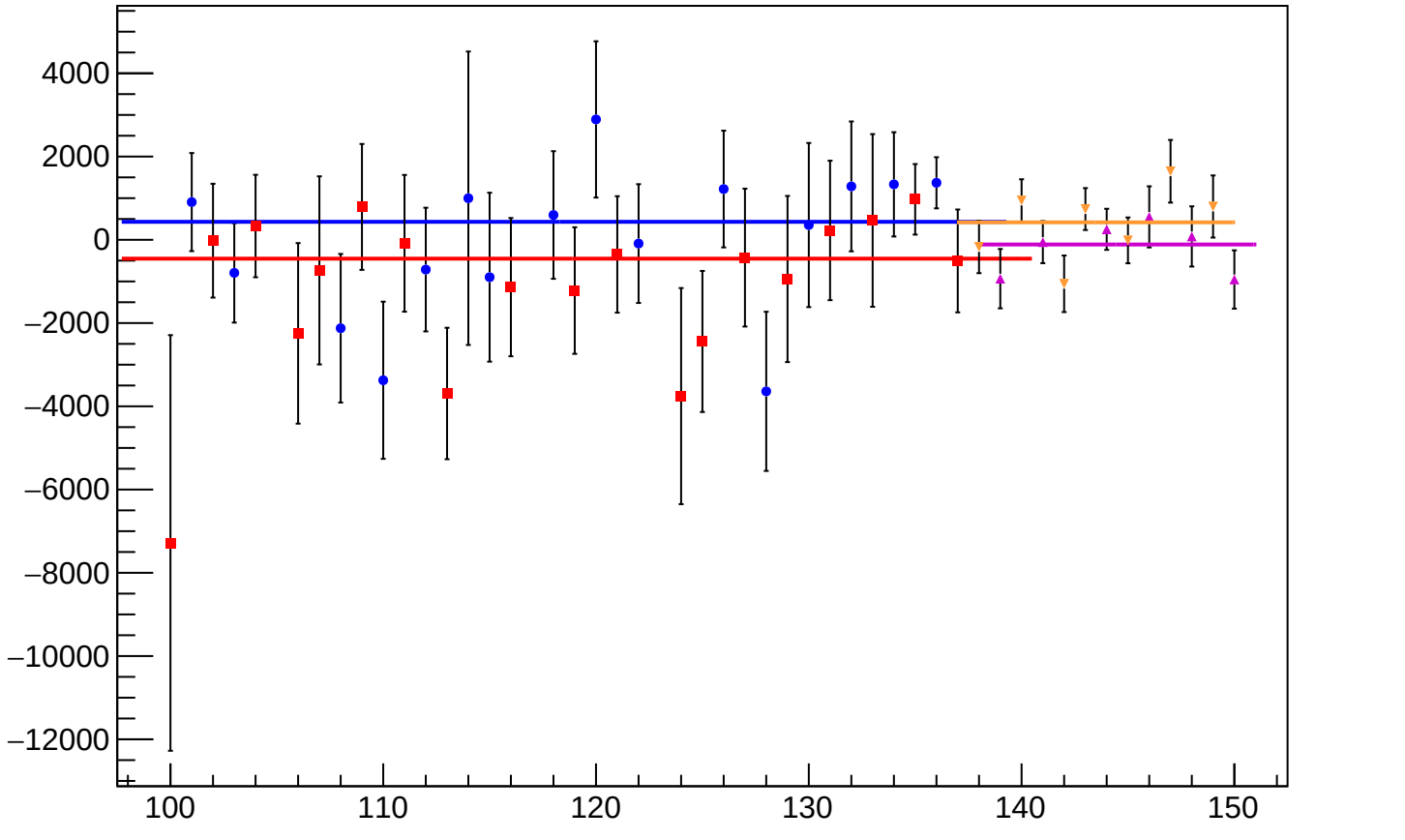
Left: 1312.748+/-0.285 $\chi^2$/NDF: 1167.3/12

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1336.512+/-0.271 $\chi^2$/NDF:767333.3/21

Out: 1334.985+/-0.266 $\chi^2$/NDF:153227.9/25

All: 1335.734+/-0.190 $\chi^2$/NDF: 920577.3/47




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 419.780+/-227.403 $\chi^2$/NDF:10.6/6

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -112.807+/-251.654 $\chi^2$/NDF:4.2/5

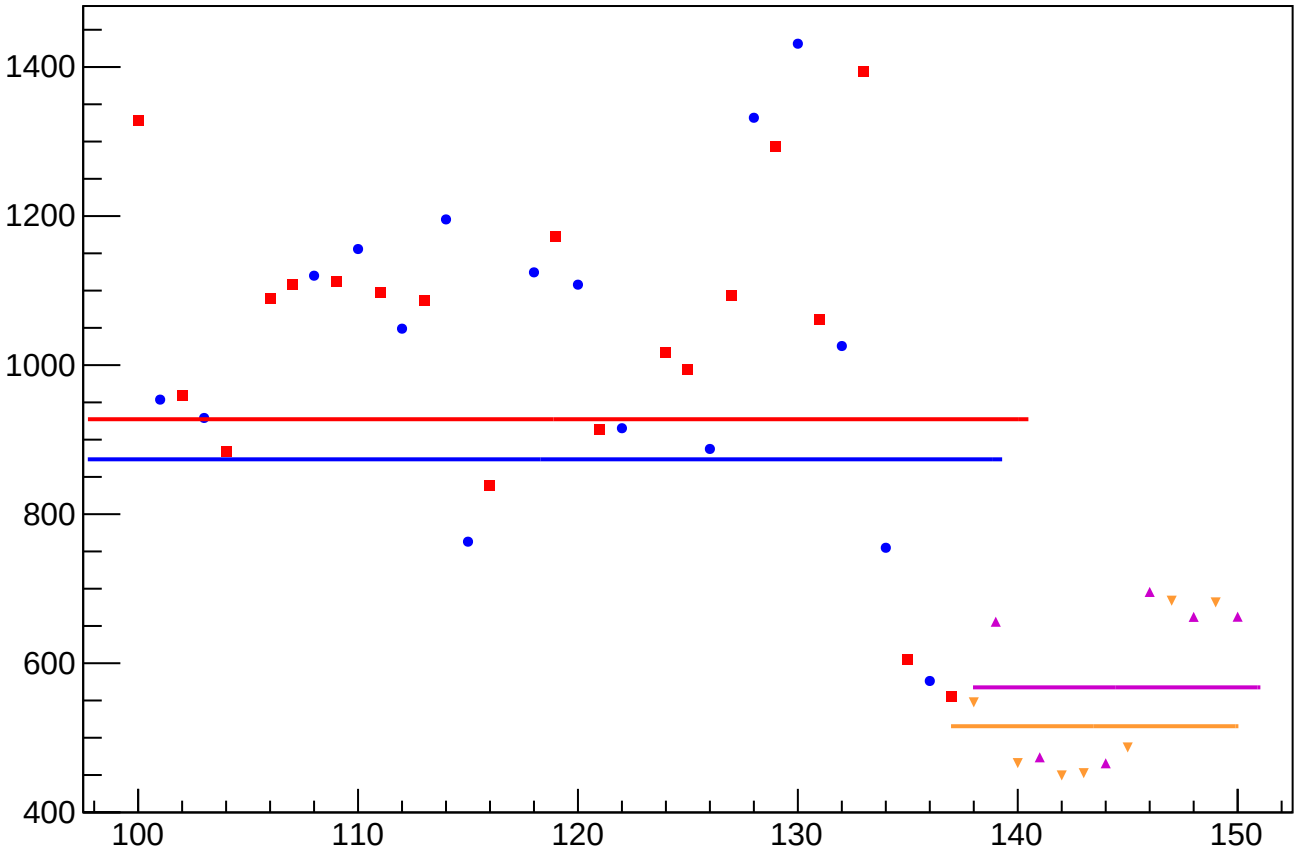
Left: 180.378+/-168.722 $\chi^2$/NDF: 17.3/12

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 81.243+/-201.937 $\chi^2$/NDF:24.1/21

Out: 166.442+/-191.579 $\chi^2$/NDF:29.6/25

All: 126.083+/-138.984 $\chi^2$/NDF: 53.8/47




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 515.469+/-0.161 $\chi^2$/NDF:278784.4/6

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 567.618+/-0.178 $\chi^2$/NDF:316387.6/5

Left: 538.911+/-0.119 $\chi^2$/NDF: 642450.5/12

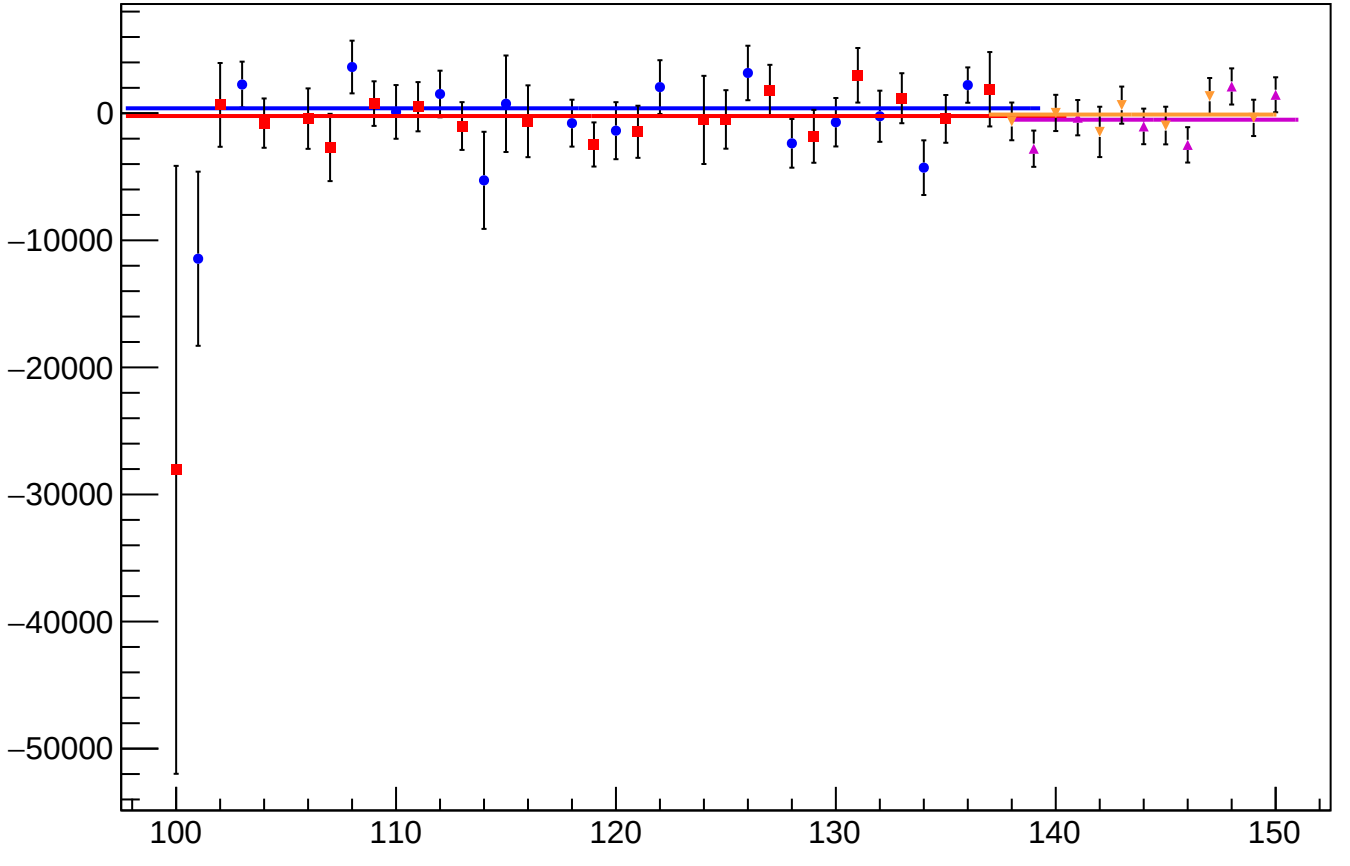
Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 676.578+/-0.143 $\chi^2$/NDF:2383711.2/21

Out: 635.035+/-0.135 $\chi^2$/NDF:3031081.7/25

All: 654.714+/-0.098 $\chi^2$/NDF: 5459341.1/47

# dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected




Right In: 389.949+/-521.159 $\chi^2$/NDF: 21.4/15

Left Out: -103.345+/-567.765 $\chi^2$/NDF:2.3/6

Right Out: -218.184+/-507.927 $\chi^2$/NDF: 10.0/18

Left In: -508.410+/-571.873 $\chi^2$/NDF:10.2/5

Left: -304.417+/-402.915 $\chi^2$/NDF: 12.7/12

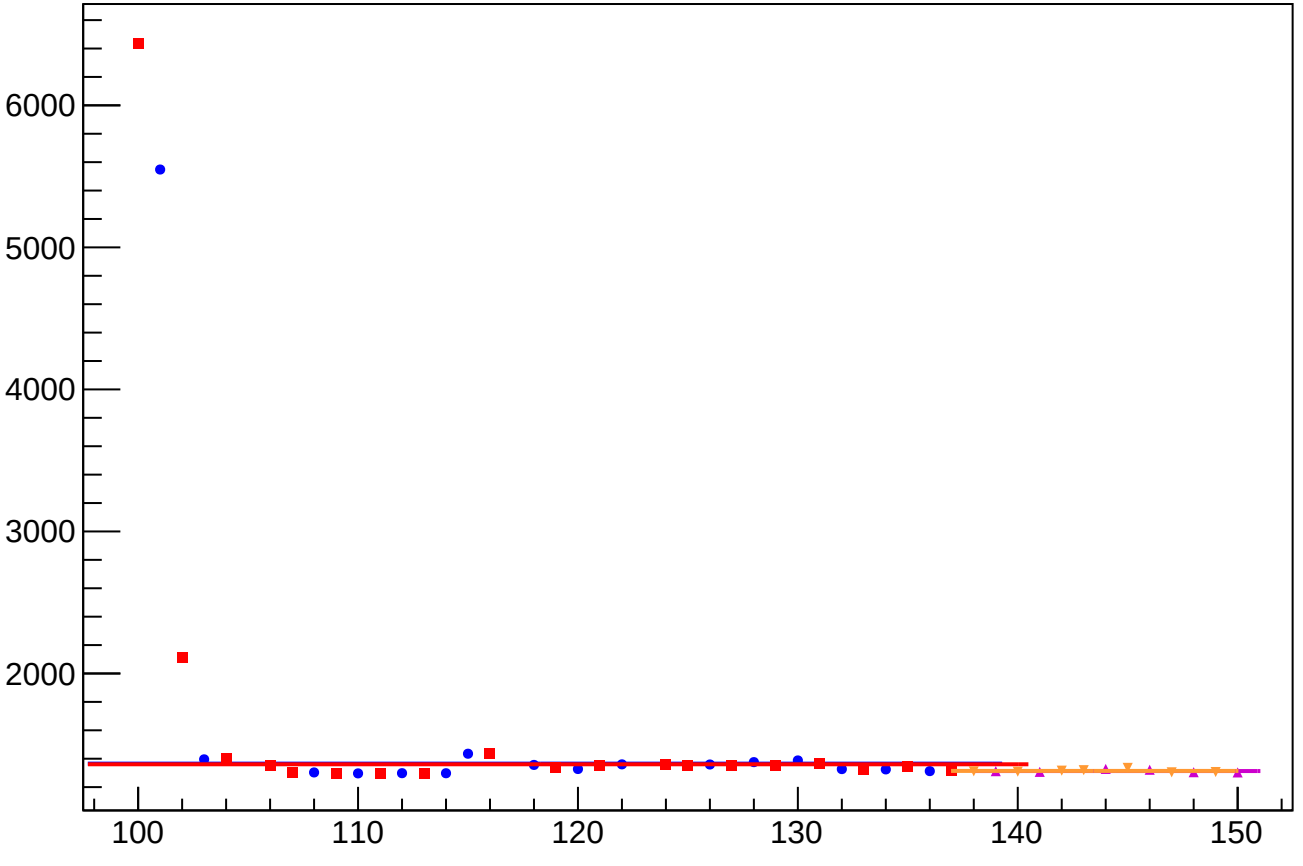
Right: 78.065+/-363.747 $\chi^2$/NDF: 32.1/34

In: -17.638+/-385.199 $\chi^2$/NDF:32.9/21

Out: -167.133+/-378.553 $\chi^2$/NDF:12.3/25

All: -93.686+/-269.996 $\chi^2$/NDF: 45.2/47

# dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1314.064+/-0.401 $\chi^2$/NDF:630.4/6

Right Out: 1360.771+/-0.359 $\chi^2$/NDF: 205315.3/18

Left In: 1313.147+/-0.404 $\chi^2$/NDF:518.6/5

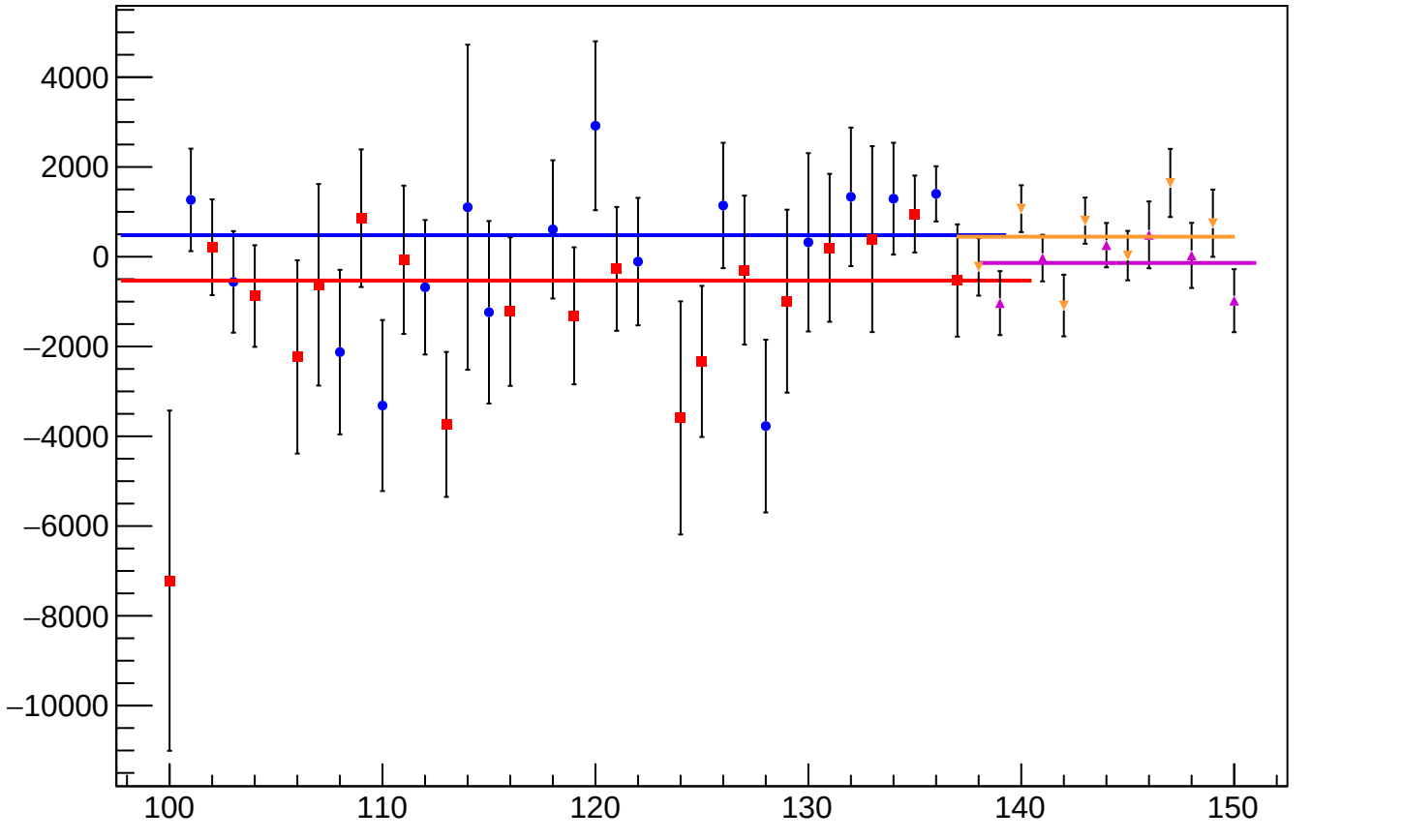
Left: 1313.609+/-0.285 $\chi^2$/NDF: 1151.7/12

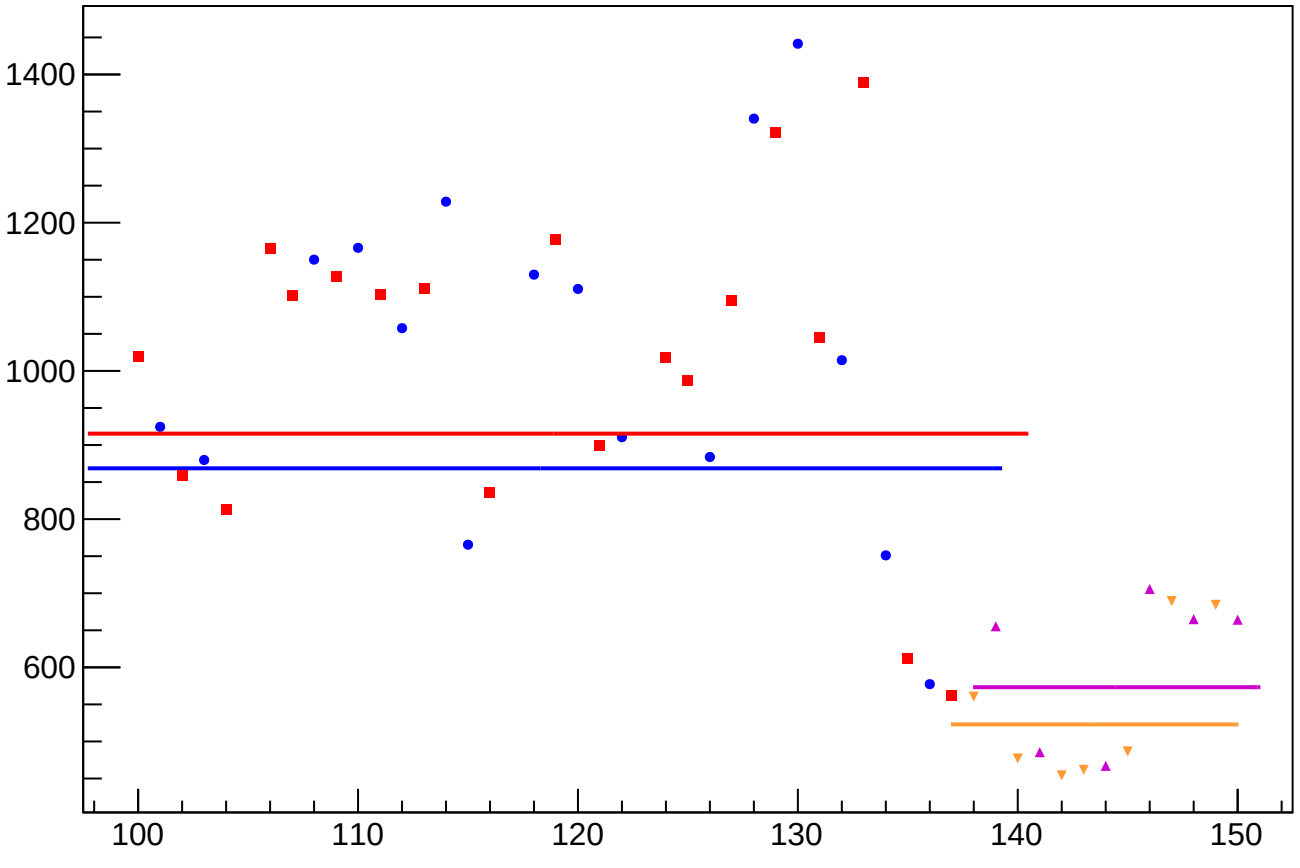
Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.6/34

In: 1341.639+/-0.272 $\chi^2$/NDF:768550.9/21

Out: 1340.007+/-0.268 $\chi^2$/NDF:213463.6/25

All: 1340.809+/-0.191 $\chi^2$/NDF: 982032.8/47


asym_usr_atr1_dd_dit_correction_mean vs Slug, Sign Corrected
4000
2000
0
−2000
−4000
−6000
−8000
−10000
100
110
120
130
140
150
Right In: 480.403+/-336.520 χ²/NDF: 18.6/15
Left Out: 446.462+/-230.509 χ²/NDF:11.2/6
Right Out: -530.532+/-346.105 χ²/NDF: 15.6/18
Left In: -138.197+/-253.913 χ²/NDF:4.5/5
Left: 182.313+/-170.670 χ²/NDF: 18.6/12
Right: -10.874+/-241.273 χ²/NDF: 38.6/34
In: 86.216+/-202.689 χ²/NDF:25.2/21
Out: 146.259+/-191.853 χ²/NDF:32.4/25
All: 117.885+/-139.334 χ²/NDF: 57.6/47




Right In: 868.572+/-0.238 $\chi^2$/NDF: 1021338.5/15

Left Out: 522.976+/-0.163 $\chi^2$/NDF:268673.1/6

Right Out: 915.360+/-0.245 $\chi^2$/NDF: 858906.6/18

Left In: 573.215+/-0.180 $\chi^2$/NDF:304975.0/5

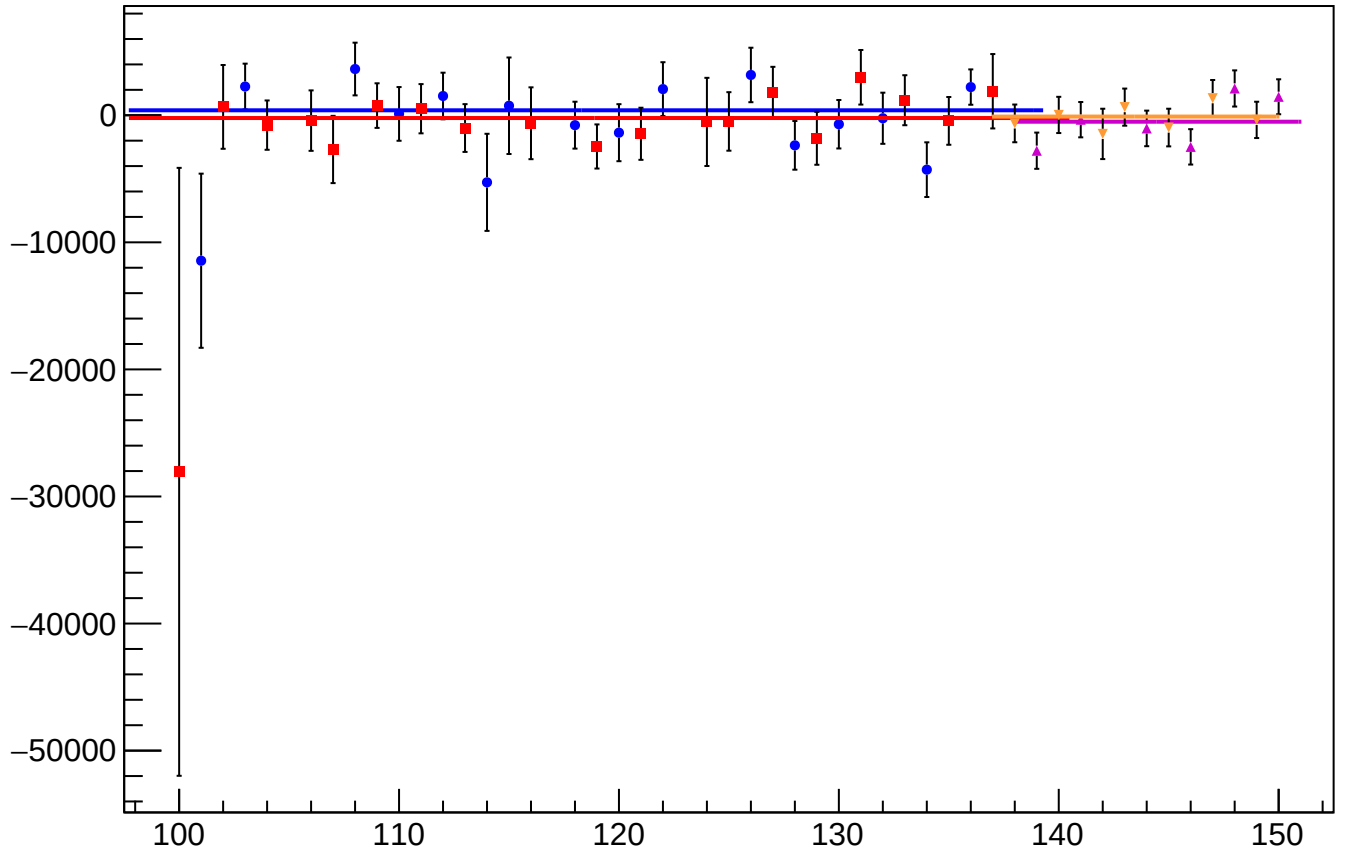
Left: 545.674+/-0.121 $\chi^2$/NDF: 616570.5/12

Right: 891.309+/-0.171 $\chi^2$/NDF: 1899033.0/34

In: 680.364+/-0.143 $\chi^2$/NDF:2308044.7/21

Out: 643.545+/-0.136 $\chi^2$/NDF:2908314.5/25

All: 660.944+/-0.099 $\chi^2$/NDF: 5251167.5/47




Right In: 389.949+/-521.159 $\chi^2$/NDF: 21.4/15

Left Out: -103.345+/-567.765 $\chi^2$/NDF:2.3/6

Right Out: -218.182+/-507.927 $\chi^2$/NDF: 10.0/18

Left In: -508.410+/-571.873 $\chi^2$/NDF:10.2/5

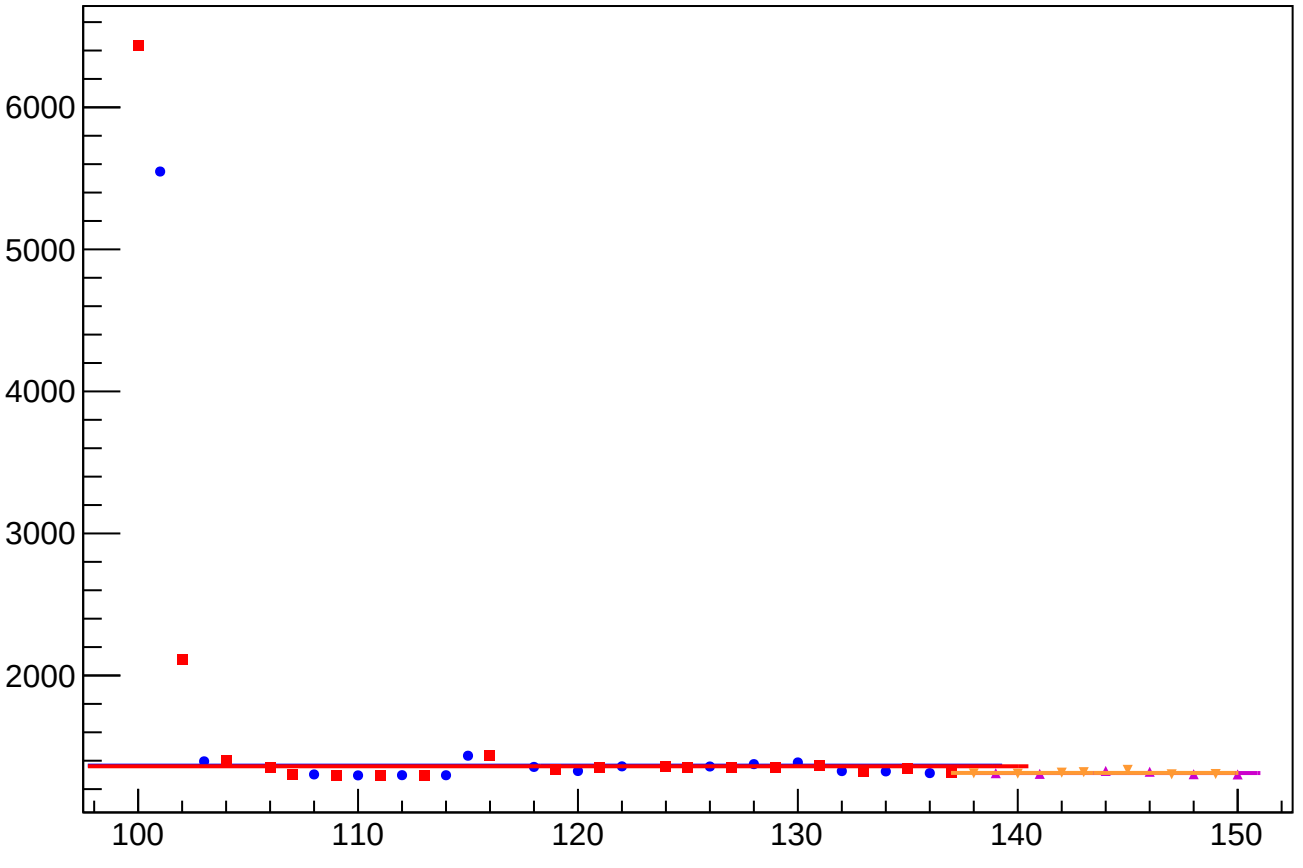
Left: -304.417+/-402.915 $\chi^2$/NDF: 12.7/12

Right: 78.066+/-363.747 $\chi^2$/NDF: 32.1/34

In: -17.638+/-385.199 $\chi^2$/NDF:32.9/21

Out: -167.132+/-378.553 $\chi^2$/NDF:12.3/25

All: -93.686+/-269.996 $\chi^2$/NDF: 45.2/47




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1314.064+/-0.401 $\chi^2$/NDF:630.4/6

Right Out: 1360.770+/-0.359 $\chi^2$/NDF: 205315.2/18

Left In: 1313.147+/-0.404 $\chi^2$/NDF:518.6/5

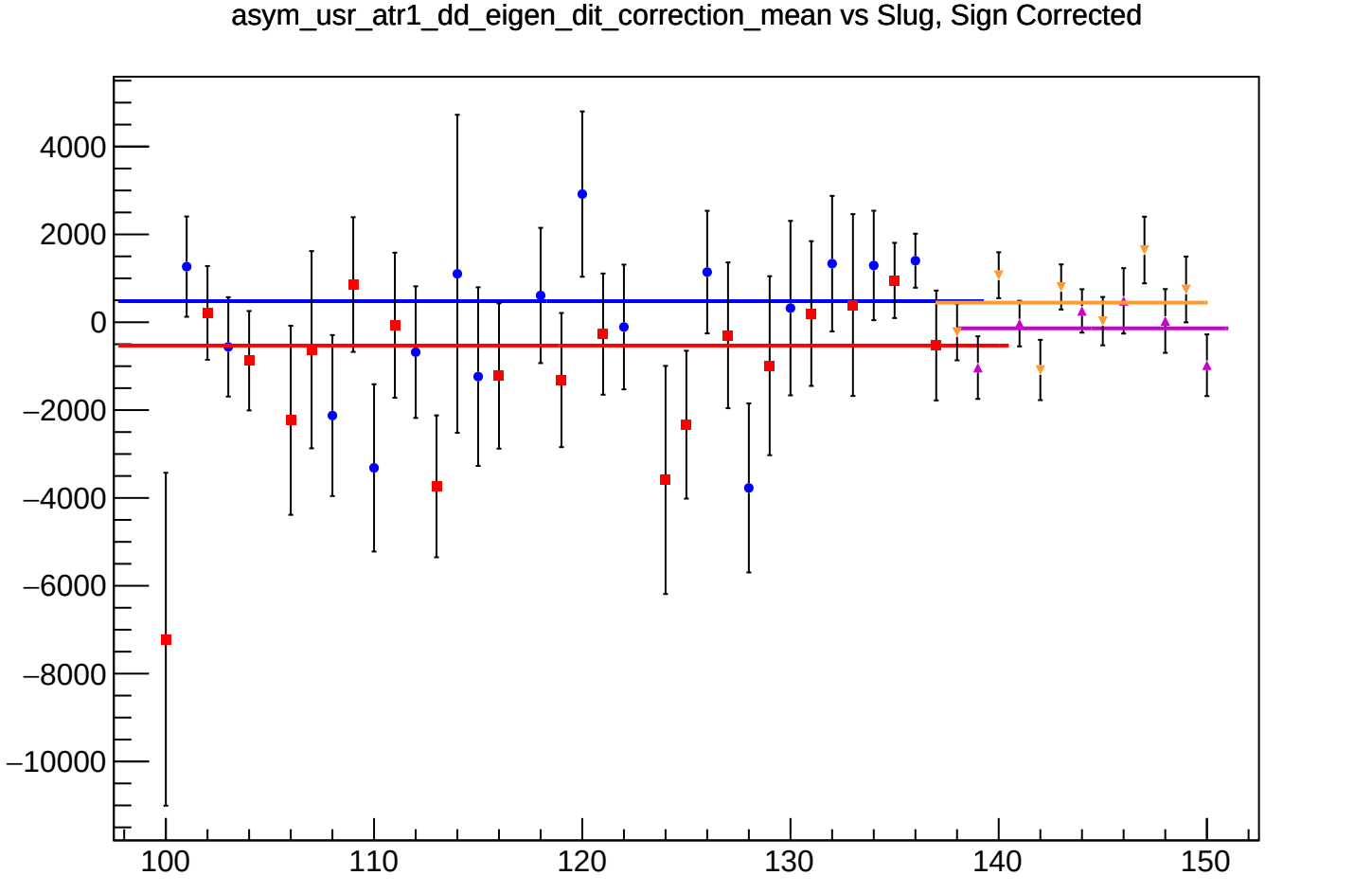
Left: 1313.609+/-0.285 $\chi^2$/NDF: 1151.7/12

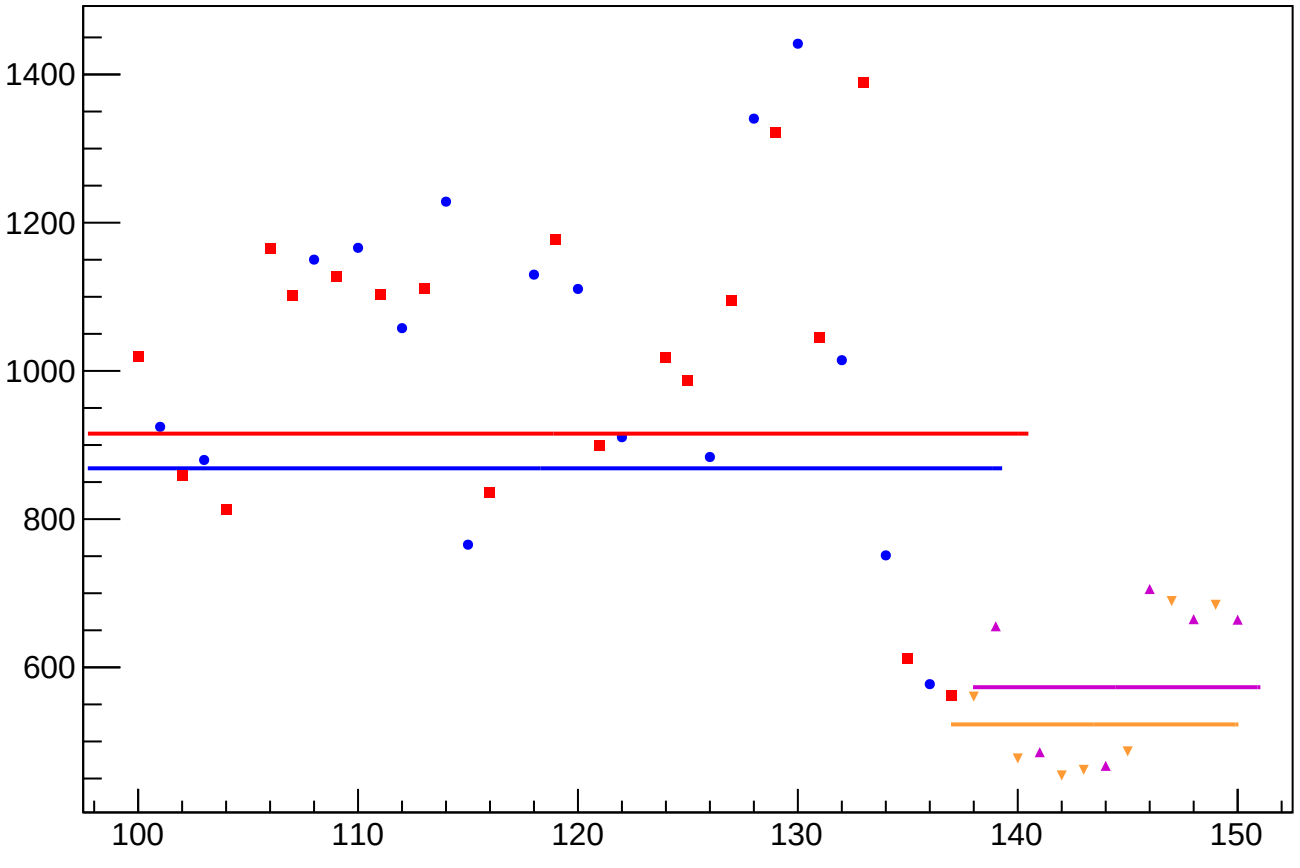
Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.5/34

In: 1341.639+/-0.272 $\chi^2$/NDF:768550.9/21

Out: 1340.007+/-0.268 $\chi^2$/NDF:213463.6/25

All: 1340.809+/-0.191 $\chi^2$/NDF: 982032.7/47


asym_usr_atr1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
4000
2000
0
−2000
−4000
−6000
−8000
−10000
100
110
120
130
140
150
Right In: 480.400+/-336.519 χ²/NDF: 18.6/15
Left Out: 446.464+/-230.509 χ²/NDF:11.2/6
Right Out: -530.531+/-346.104 χ²/NDF: 15.6/18
Left In: -138.197+/-253.913 χ²/NDF:4.5/5
Left: 182.315+/-170.670 χ²/NDF: 18.6/12
Right: -10.874+/-241.273 χ²/NDF: 38.6/34
In: 86.216+/-202.689 χ²/NDF:25.2/21
Out: 146.260+/-191.853 χ²/NDF:32.4/25
All: 117.886+/-139.334 χ²/NDF: 57.6/47




Right In: 868.570+/-0.238 $\chi^2$/NDF: 1021337.1/15

Left Out: 522.976+/-0.163 $\chi^2$/NDF:268675.4/6

Right Out: 915.358+/-0.245 $\chi^2$/NDF: 858906.3/18

Left In: 573.216+/-0.180 $\chi^2$/NDF:304976.1/5

Left: 545.674+/-0.121 $\chi^2$/NDF: 616575.3/12

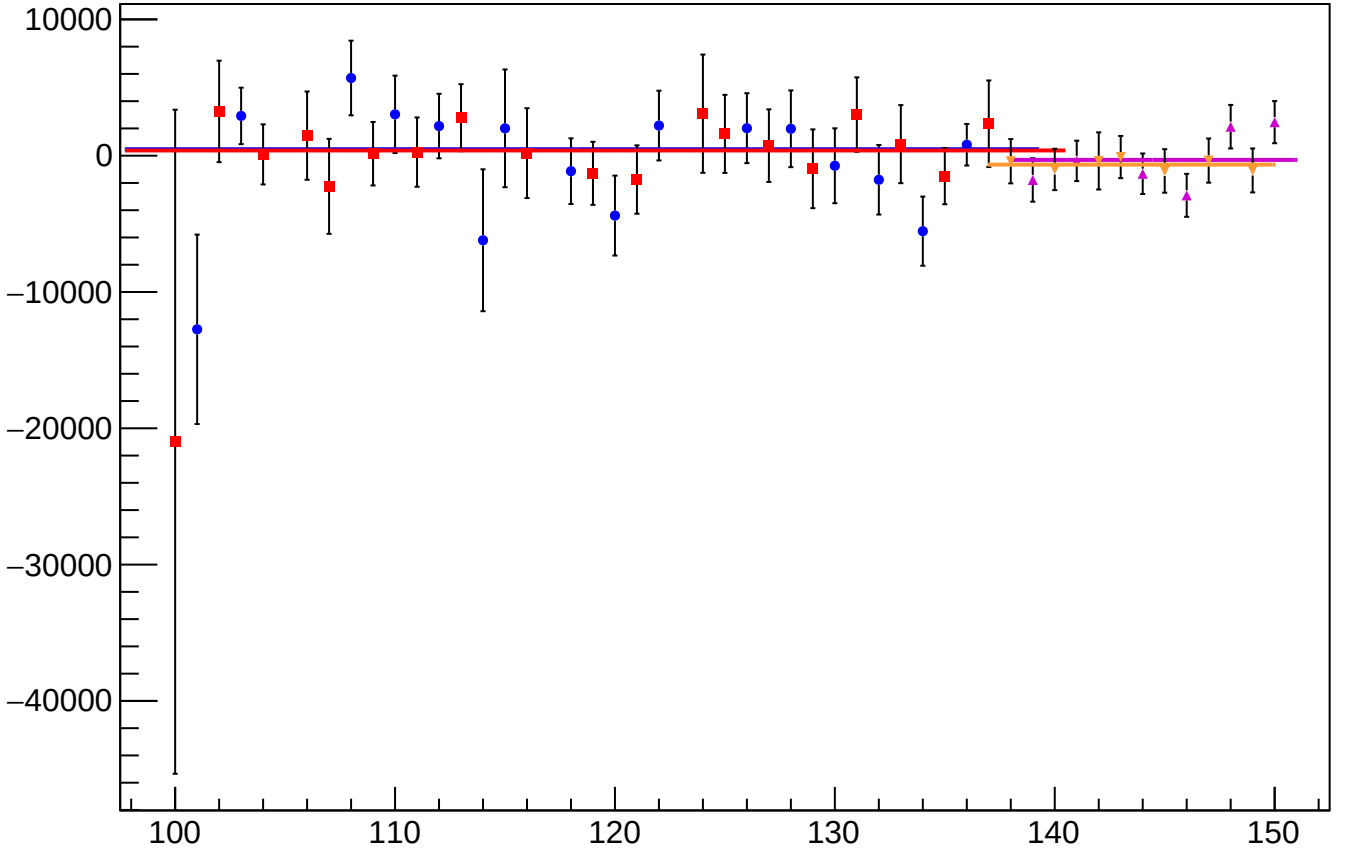
Right: 891.307+/-0.171 $\chi^2$/NDF: 1899032.0/34

In: 680.364+/-0.143 $\chi^2$/NDF:2308028.5/21

Out: 643.544+/-0.136 $\chi^2$/NDF:2908309.7/25

All: 660.943+/-0.099 $\chi^2$/NDF: 5251147.6/47

# asym_usr_atr1_dd_mean vs Slug, Sign Corrected




Right In: 473.494+/-649.243 $\chi^2$/NDF: 22.7/15

Left Out: -654.867+/-618.048 $\chi^2$/NDF:0.4/6

Right Out: 384.785+/-641.994 $\chi^2$/NDF: 7.3/18

Left In: -310.067+/-630.441 $\chi^2$/NDF:9.6/5

Left: -485.889+/-441.342 $\chi^2$/NDF: 10.1/12

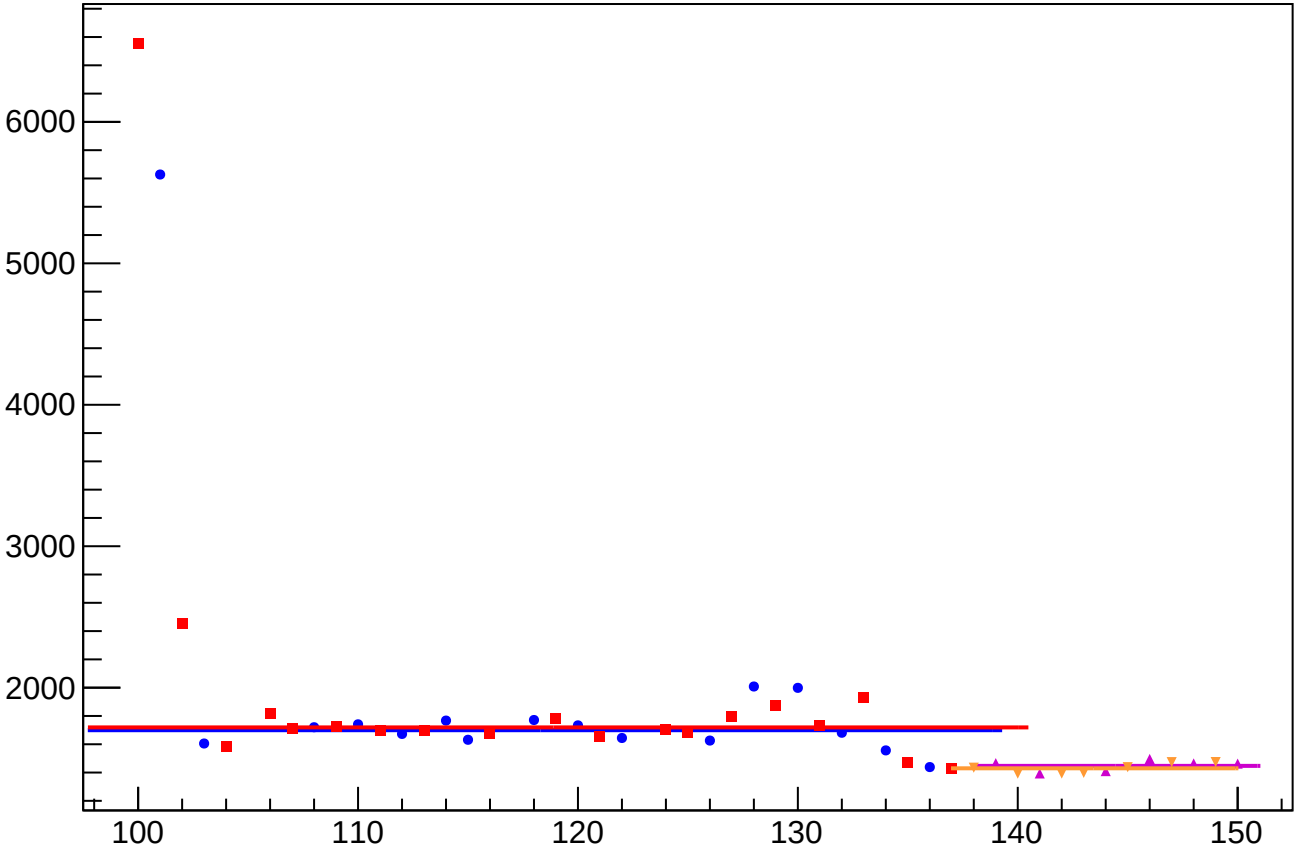
Right: 428.642+/-456.500 $\chi^2$/NDF: 30.0/34

In: 70.204+/-452.290 $\chi^2$/NDF:33.0/21

Out: -154.792+/-445.251 $\chi^2$/NDF:9.0/25

All: -44.058+/-317.299 $\chi^2$/NDF: 42.2/47

# asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1699.330+/-0.459 $\chi^2$/NDF: 762097.7/15

Left Out: 1429.918+/-0.437 $\chi^2$/NDF:5752.6/6

Right Out: 1719.103+/-0.454 $\chi^2$/NDF: 233751.6/18

Left In: 1447.136+/-0.446 $\chi^2$/NDF:6549.3/5

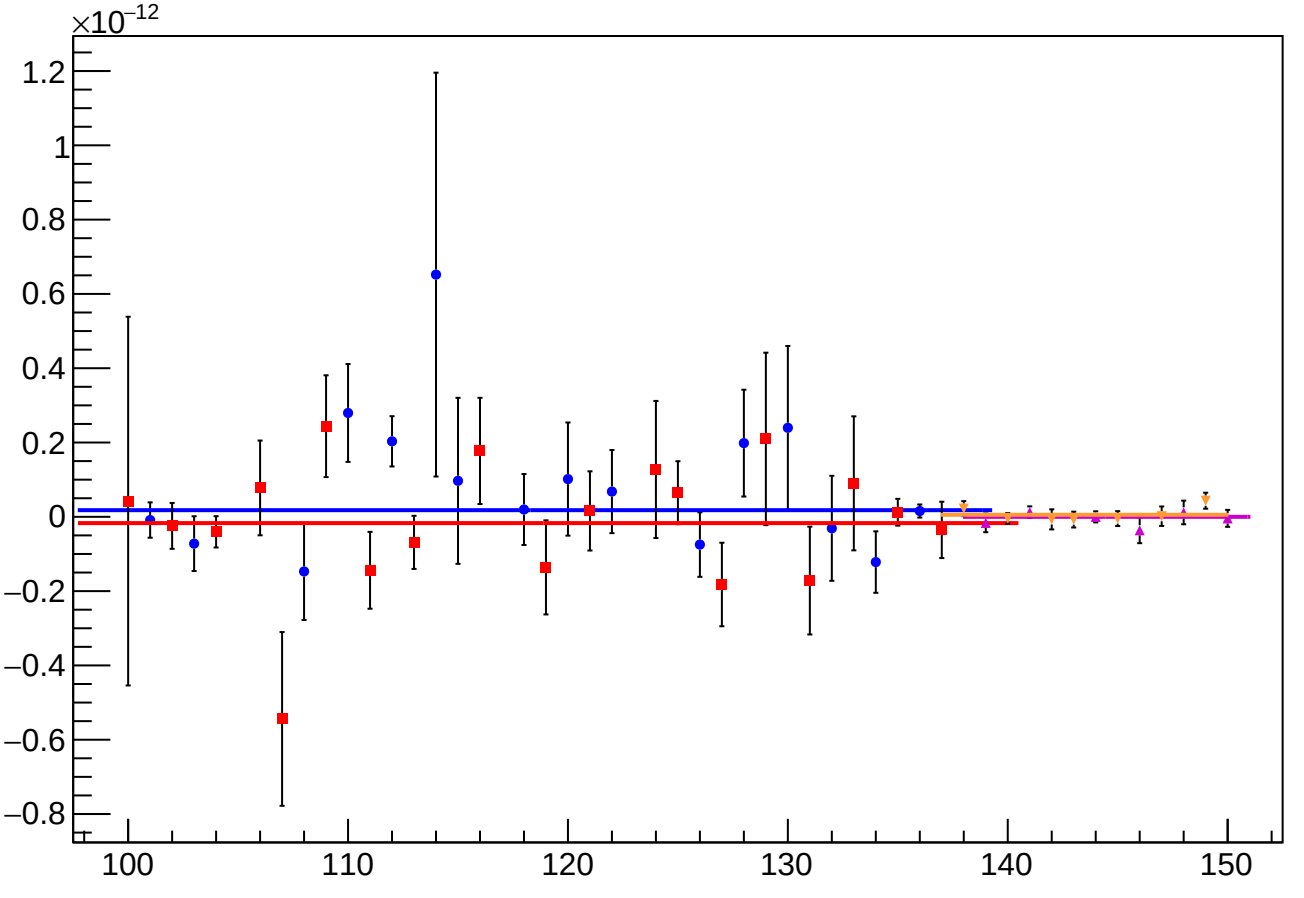
Left: 1438.356+/-0.312 $\chi^2$/NDF: 13062.6/12

Right: 1709.327+/-0.323 $\chi^2$/NDF: 996787.3/34

In: 1569.528+/-0.320 $\chi^2$/NDF:923968.2/21

Out: 1569.017+/-0.315 $\chi^2$/NDF:450117.3/25

All: 1569.268+/-0.224 $\chi^2$/NDF: 1374086.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.3/5

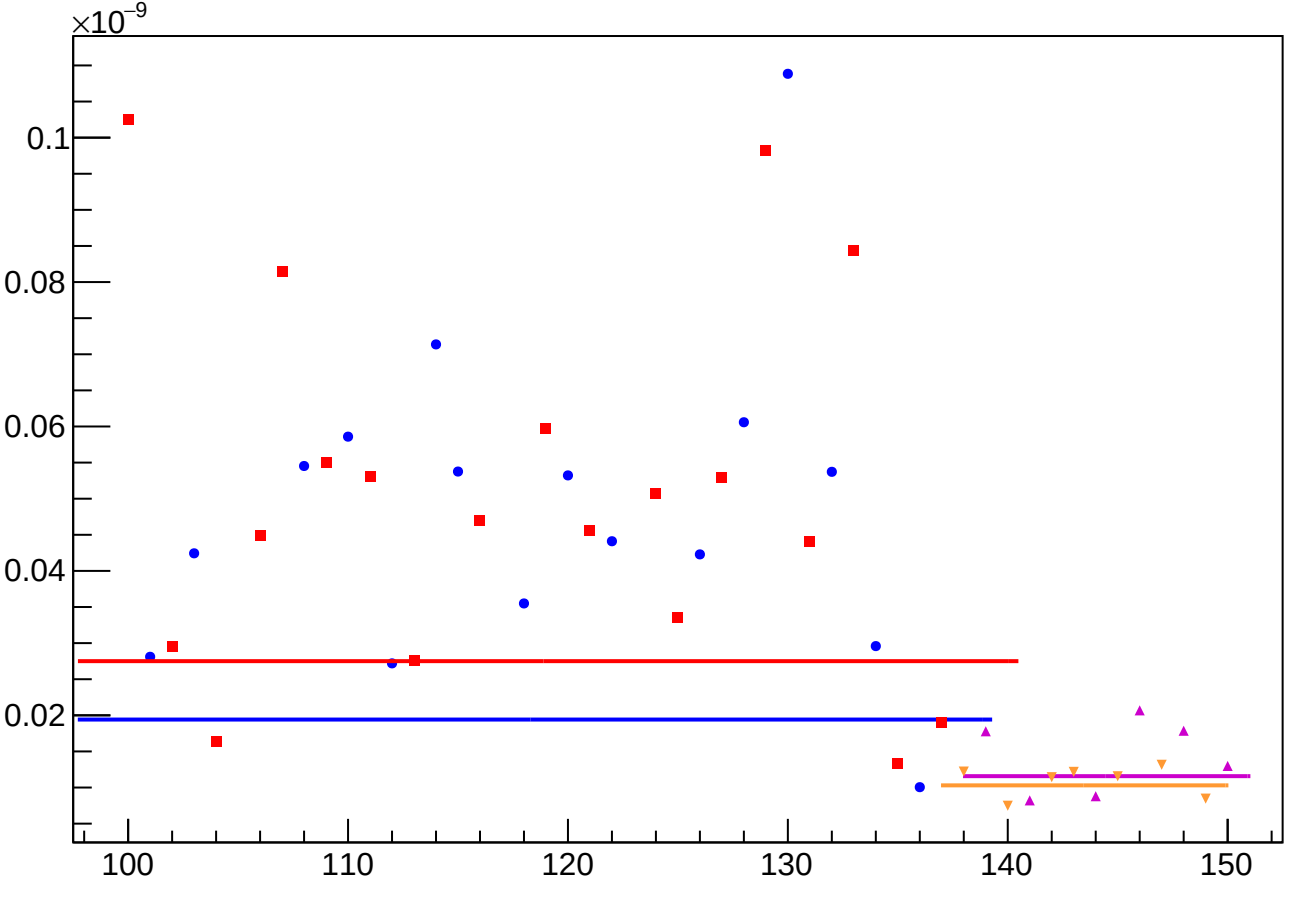
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:27.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 54.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2274412.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:160388.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1650144.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:508585.5/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 693894.0/12

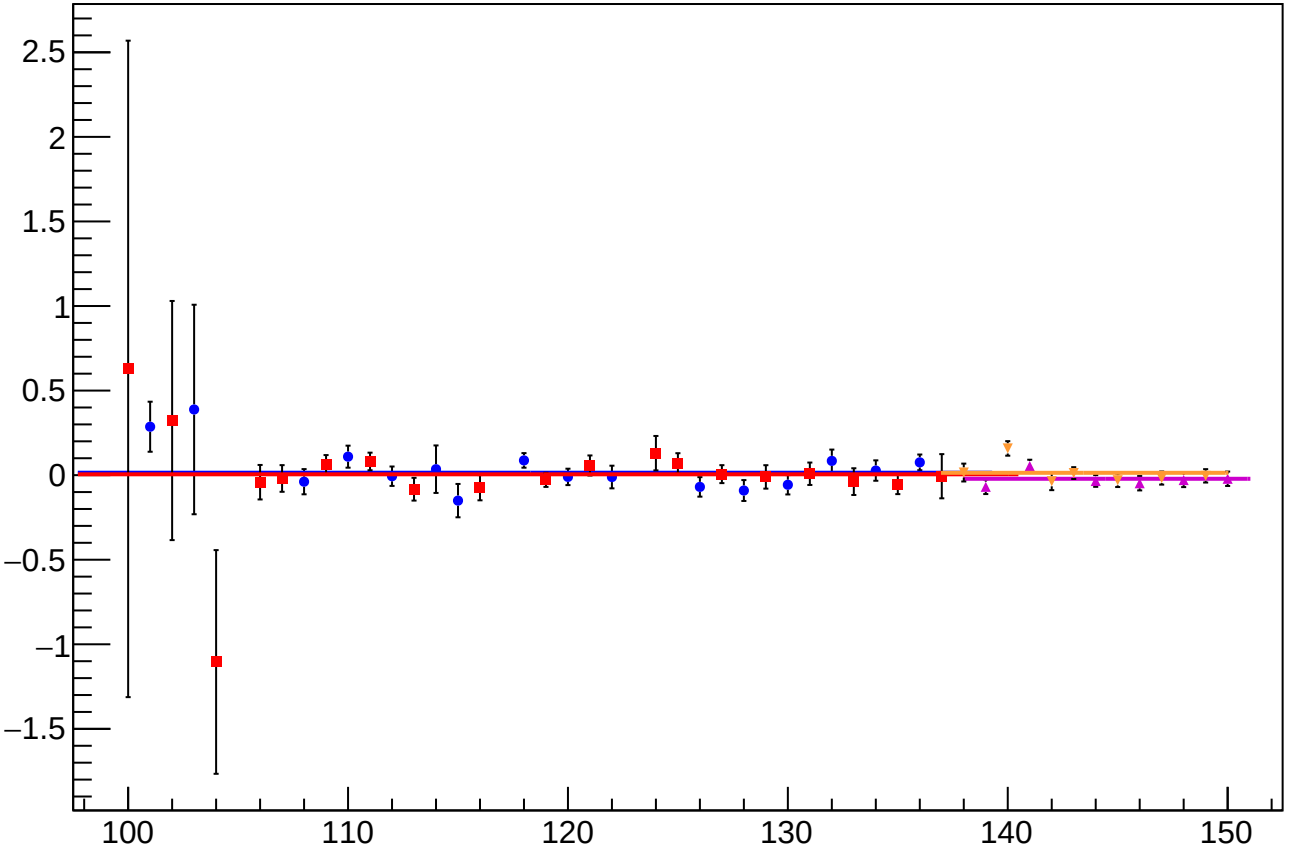
Right: 0.000+/-0.000 $\chi^2$/NDF: 4153449.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:3224707.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3206821.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6447478.8/47

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.014+/-0.016 $\chi^2$/NDF:14.2/6

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.021+/-0.016 $\chi^2$/NDF:5.9/5

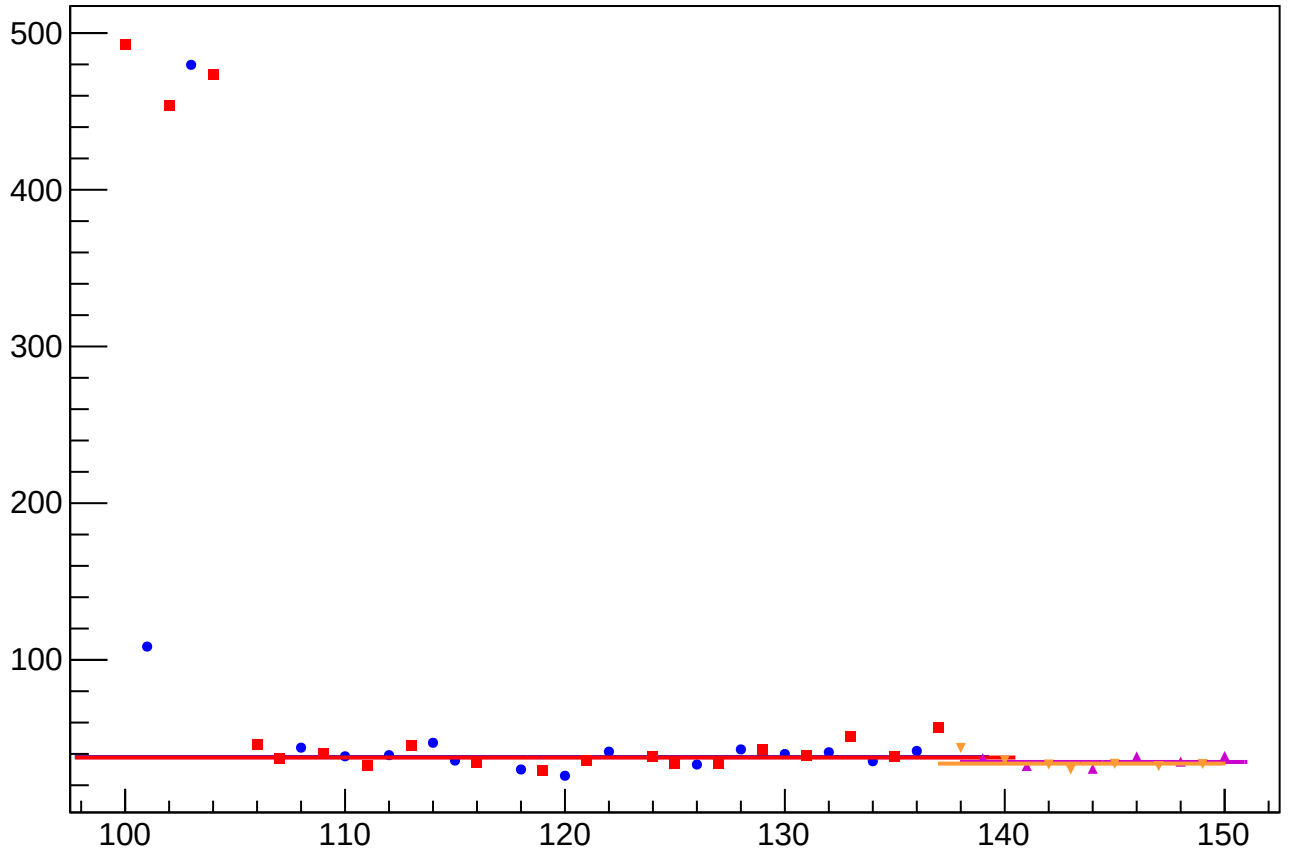
Left: -0.003+/-0.011 $\chi^2$/NDF: 22.6/12

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.003+/-0.011 $\chi^2$/NDF:30.5/21

Out: 0.009+/-0.011 $\chi^2$/NDF:29.2/25

All: 0.003+/-0.008 $\chi^2$/NDF: 60.3/47




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739669.4/15

Left Out: 33.812+/-0.011 $\chi^2$/NDF:103190.9/6

Right Out: 37.696+/-0.011 $\chi^2$/NDF: 1944881.8/18

Left In: 34.858+/-0.011 $\chi^2$/NDF:77069.1/5

Left: 34.320+/-0.008 $\chi^2$/NDF: 184518.1/12

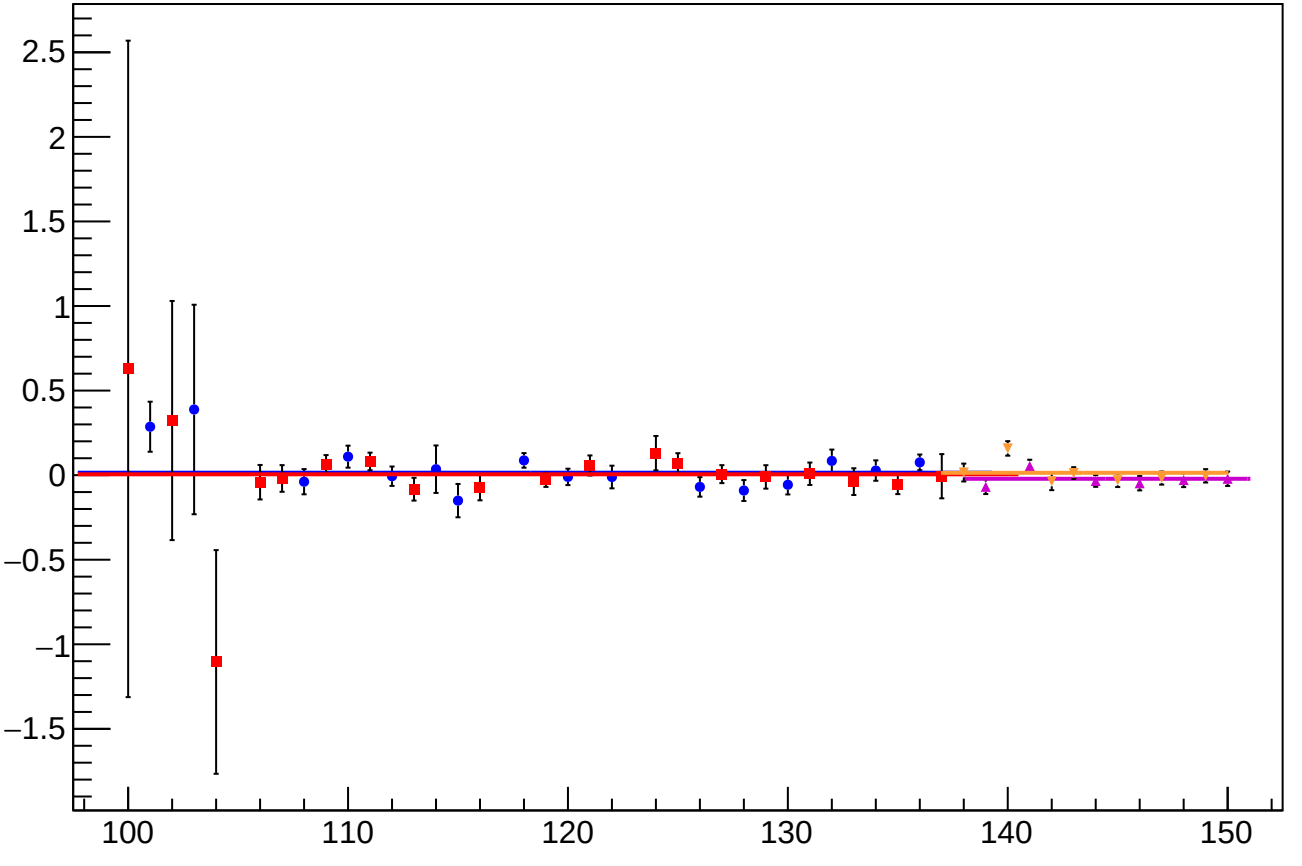
Right: 37.820+/-0.008 $\chi^2$/NDF: 3684788.8/34

In: 36.431+/-0.008 $\chi^2$/NDF:1853480.4/21

Out: 35.724+/-0.008 $\chi^2$/NDF:2107537.2/25

All: 36.074+/-0.006 $\chi^2$/NDF: 3964912.8/47

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.014+/-0.016 $\chi^2$/NDF:14.2/6

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.021+/-0.016 $\chi^2$/NDF:5.9/5

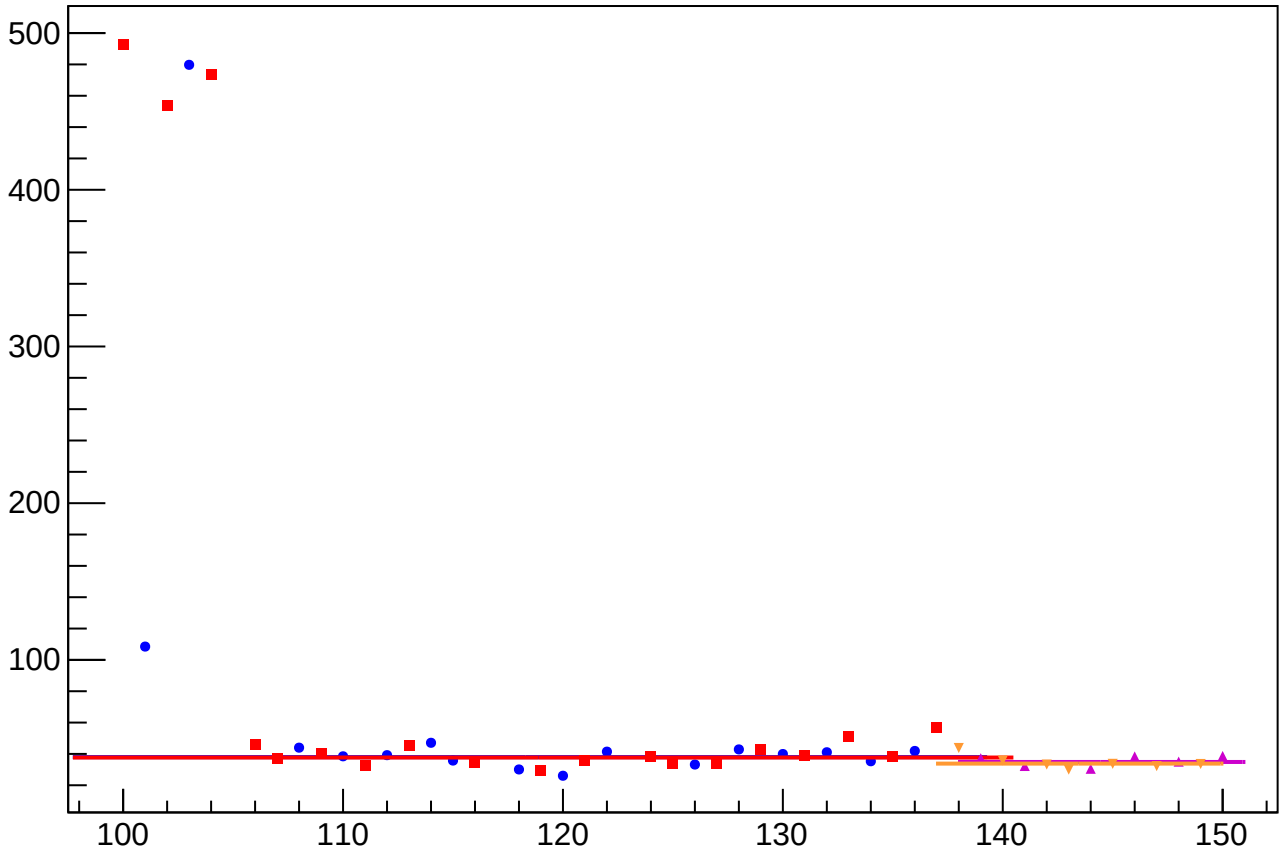
Left: -0.003+/-0.011 $\chi^2$/NDF: 22.6/12

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.003+/-0.011 $\chi^2$/NDF:30.5/21

Out: 0.009+/-0.011 $\chi^2$/NDF:29.2/25

All: 0.003+/-0.008 $\chi^2$/NDF: 60.3/47




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739669.4/15

Left Out: 33.812+/-0.011 $\chi^2$/NDF:103190.9/6

Right Out: 37.696+/-0.011 $\chi^2$/NDF: 1944881.8/18

Left In: 34.858+/-0.011 $\chi^2$/NDF:77069.1/5

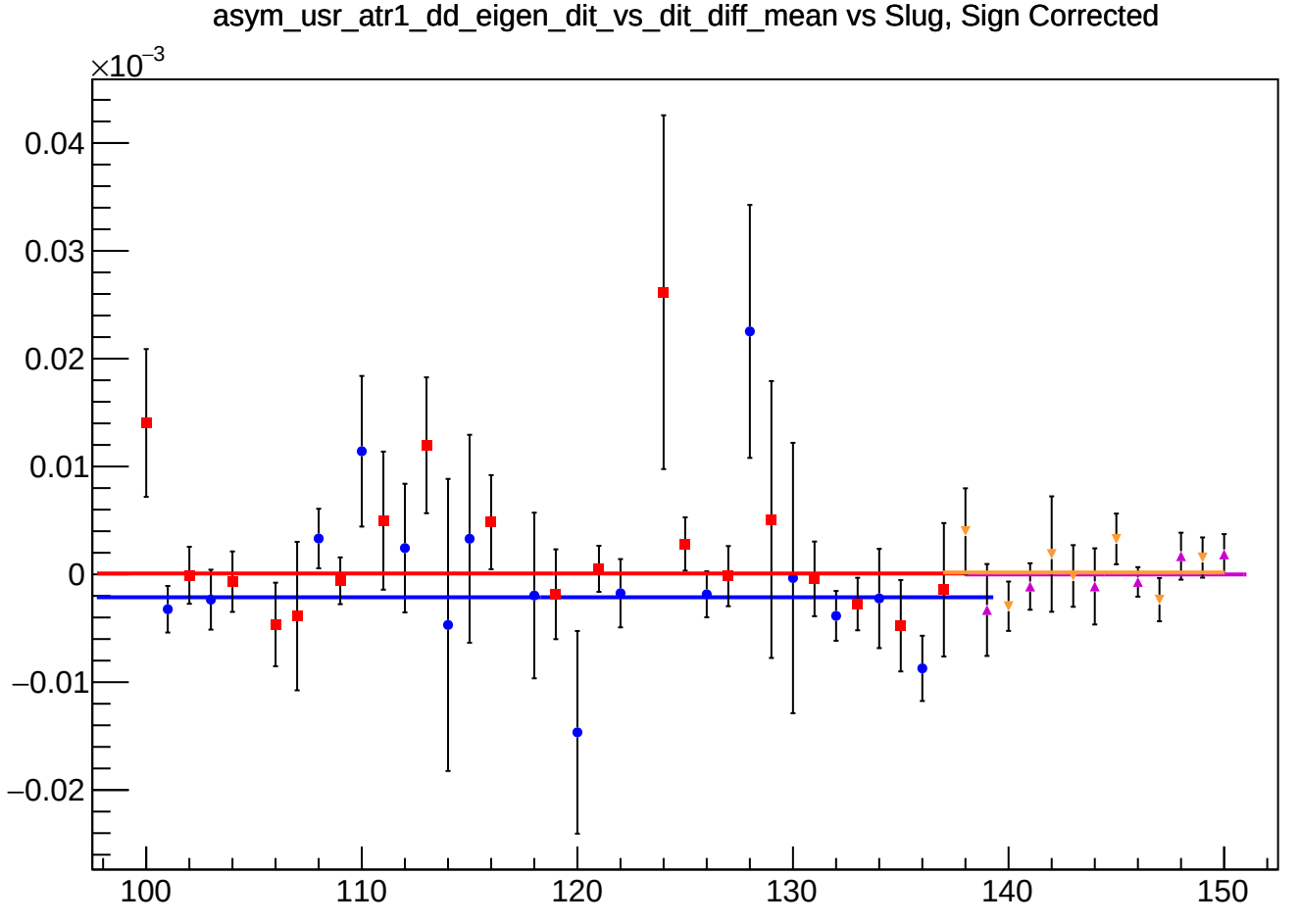
Left: 34.320+/-0.008 $\chi^2$/NDF: 184518.1/12

Right: 37.820+/-0.008 $\chi^2$/NDF: 3684788.8/34

In: 36.431+/-0.008 $\chi^2$/NDF:1853480.4/21

Out: 35.724+/-0.008 $\chi^2$/NDF:2107537.2/25

All: 36.074+/-0.006 $\chi^2$/NDF: 3964912.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/5

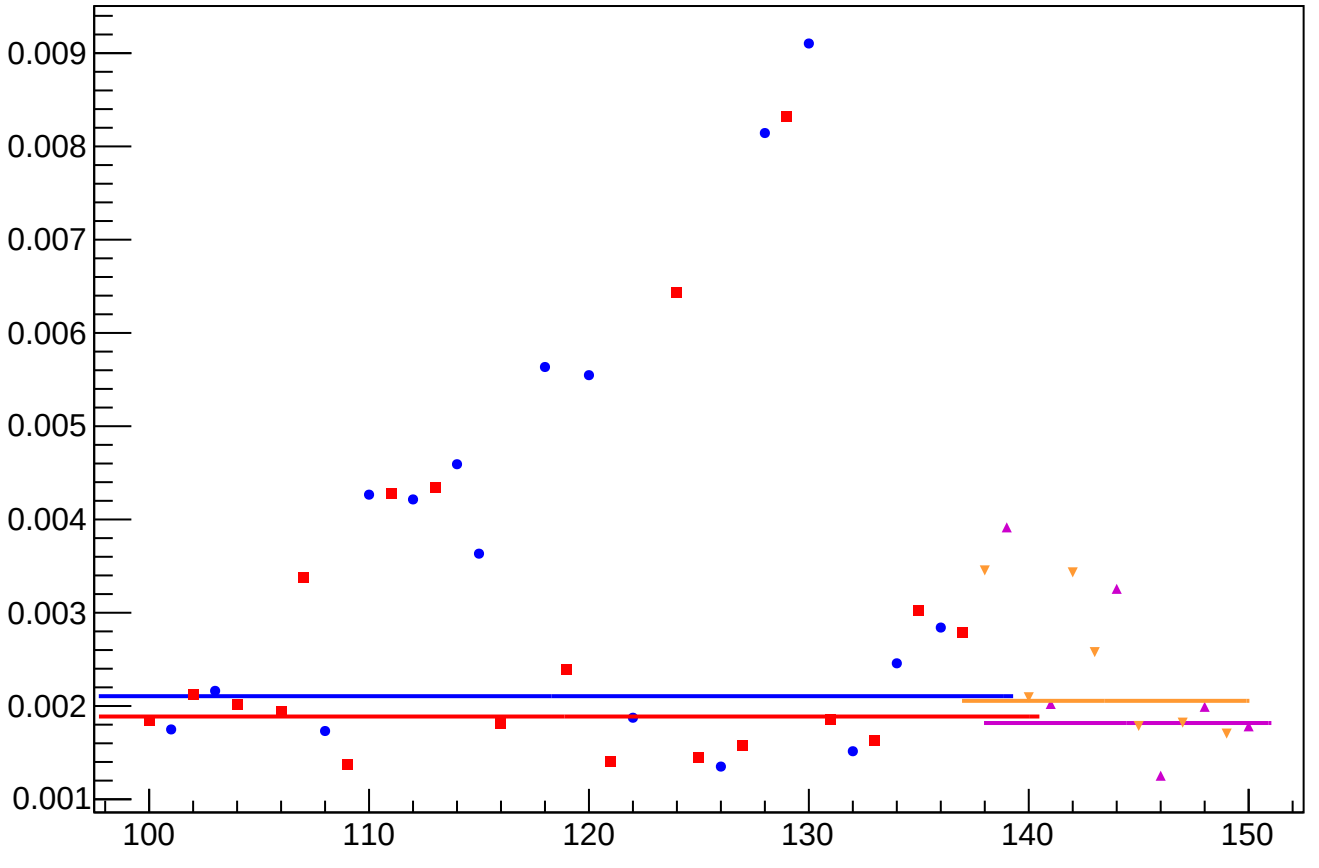
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 53.1/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3017568.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:572530.6/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1892000.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1189156.6/5

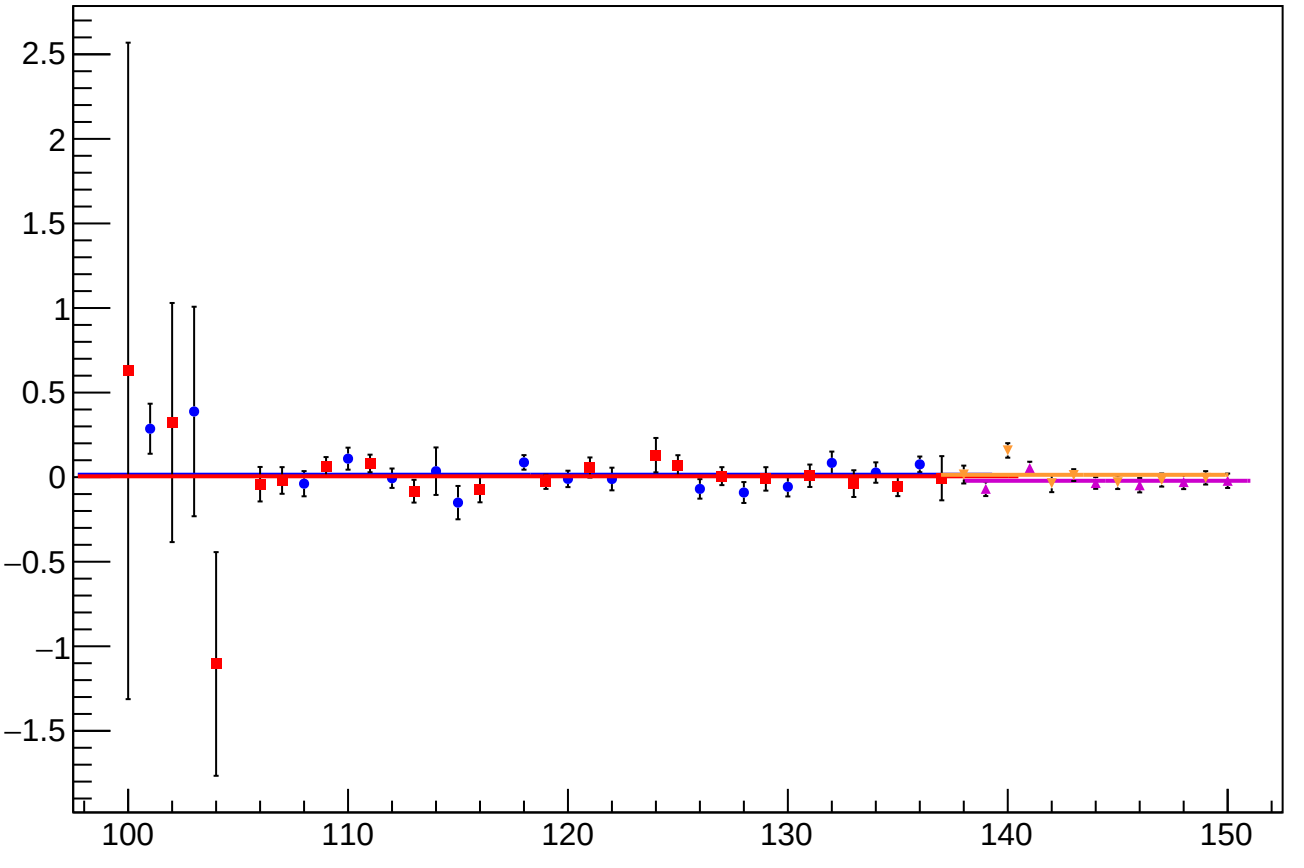
Left: 0.002+/-0.000 $\chi^2$/NDF: 1831854.6/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 4976274.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:4314985.5/21

Out: 0.002+/-0.000 $\chi^2$/NDF:2502022.0/25

All: 0.002+/-0.000 $\chi^2$/NDF: 6817023.2/47




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.014+/-0.016 $\chi^2$/NDF:14.2/6

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.021+/-0.016 $\chi^2$/NDF:5.9/5

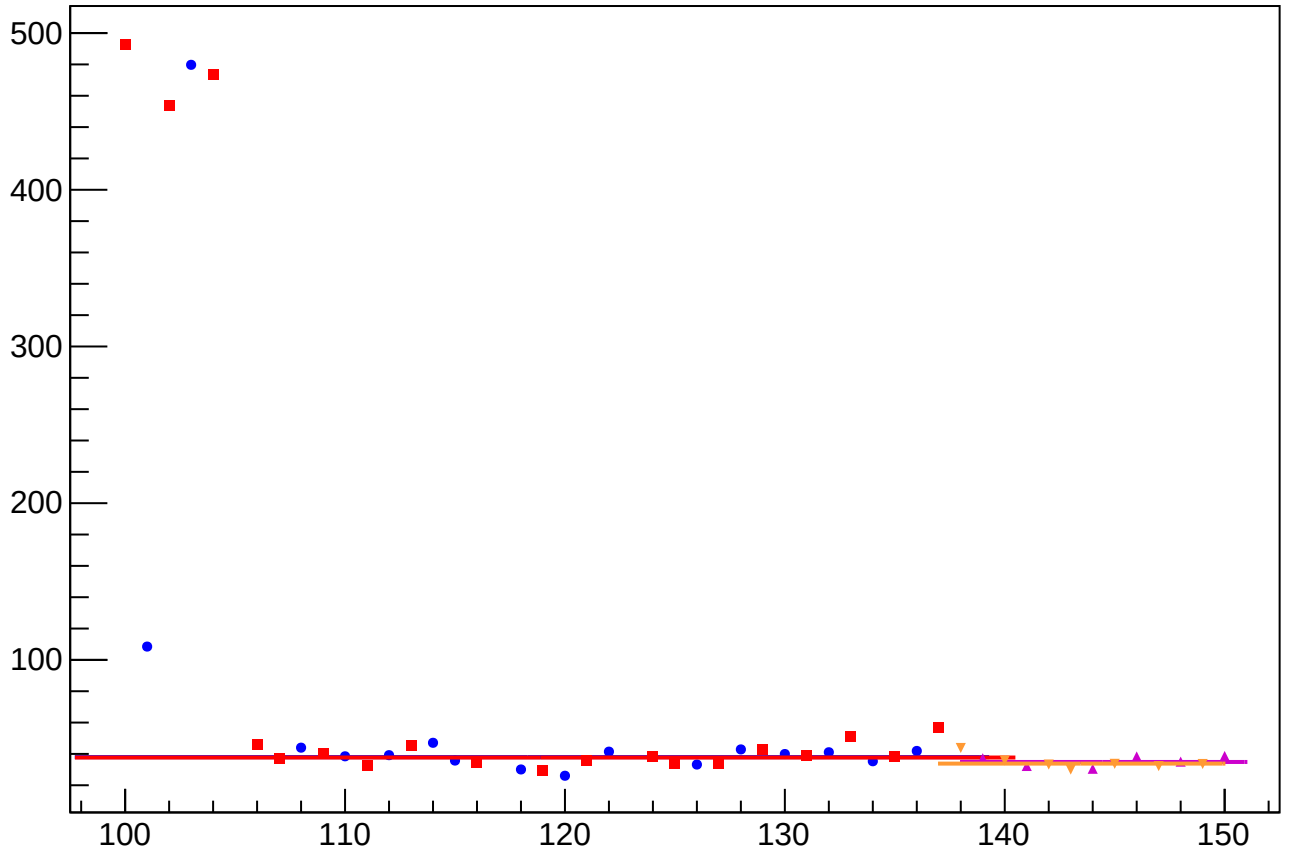
Left: -0.003+/-0.011 $\chi^2$/NDF: 22.6/12

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.003+/-0.011 $\chi^2$/NDF:30.5/21

Out: 0.009+/-0.011 $\chi^2$/NDF:29.2/25

All: 0.003+/-0.008 $\chi^2$/NDF: 60.3/47




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739681.1/15

Left Out: 33.811+/-0.011 $\chi^2$/NDF:103220.8/6

Right Out: 37.695+/-0.011 $\chi^2$/NDF: 1944959.2/18

Left In: 34.857+/-0.011 $\chi^2$/NDF:77073.2/5

Left: 34.320+/-0.008 $\chi^2$/NDF: 184551.4/12

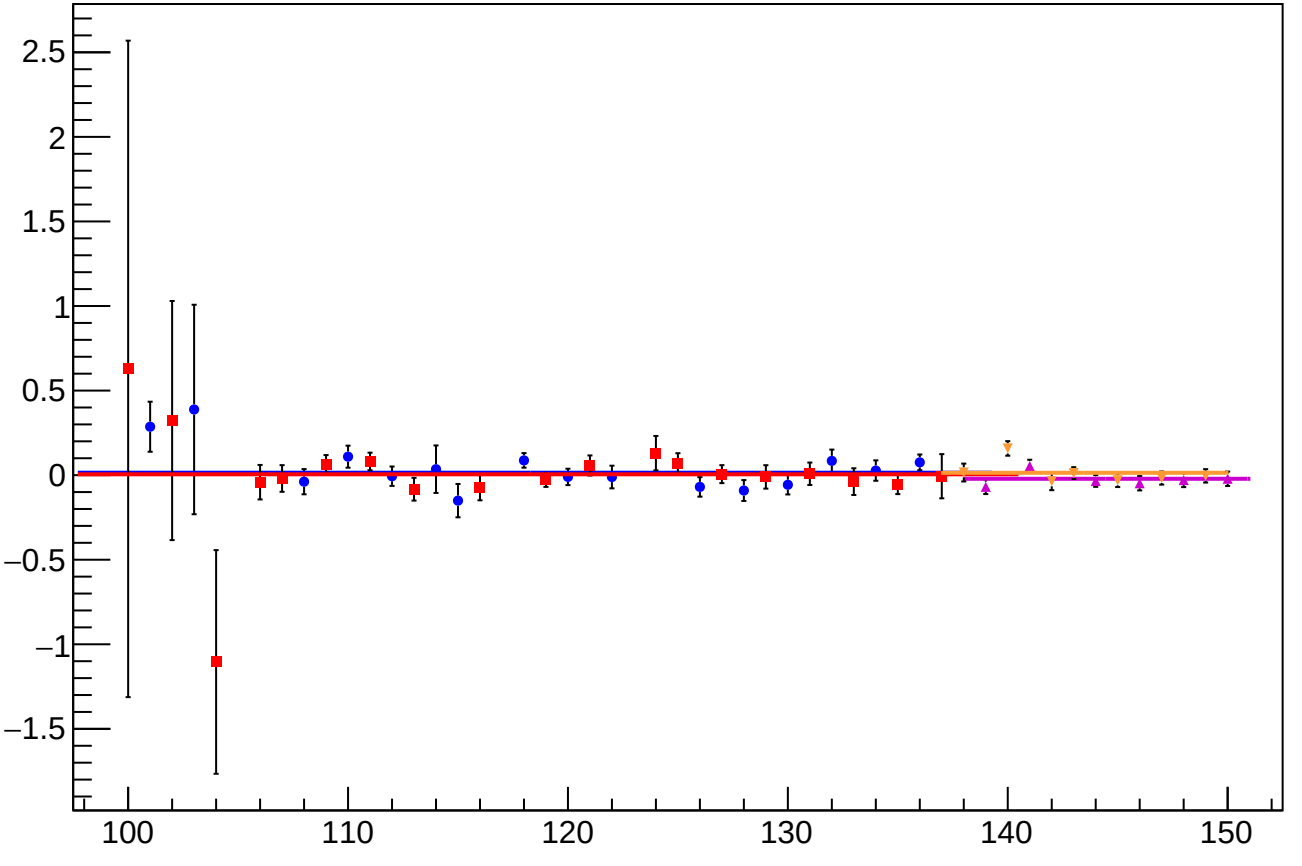
Right: 37.819+/-0.008 $\chi^2$/NDF: 3684879.3/34

In: 36.430+/-0.008 $\chi^2$/NDF:1853496.0/21

Out: 35.723+/-0.008 $\chi^2$/NDF:2107621.3/25

All: 36.073+/-0.006 $\chi^2$/NDF: 3965015.7/47

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.014+/-0.016 $\chi^2$/NDF:14.2/6

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.021+/-0.016 $\chi^2$/NDF:5.9/5

Left: -0.003+/-0.011 $\chi^2$/NDF: 22.6/12

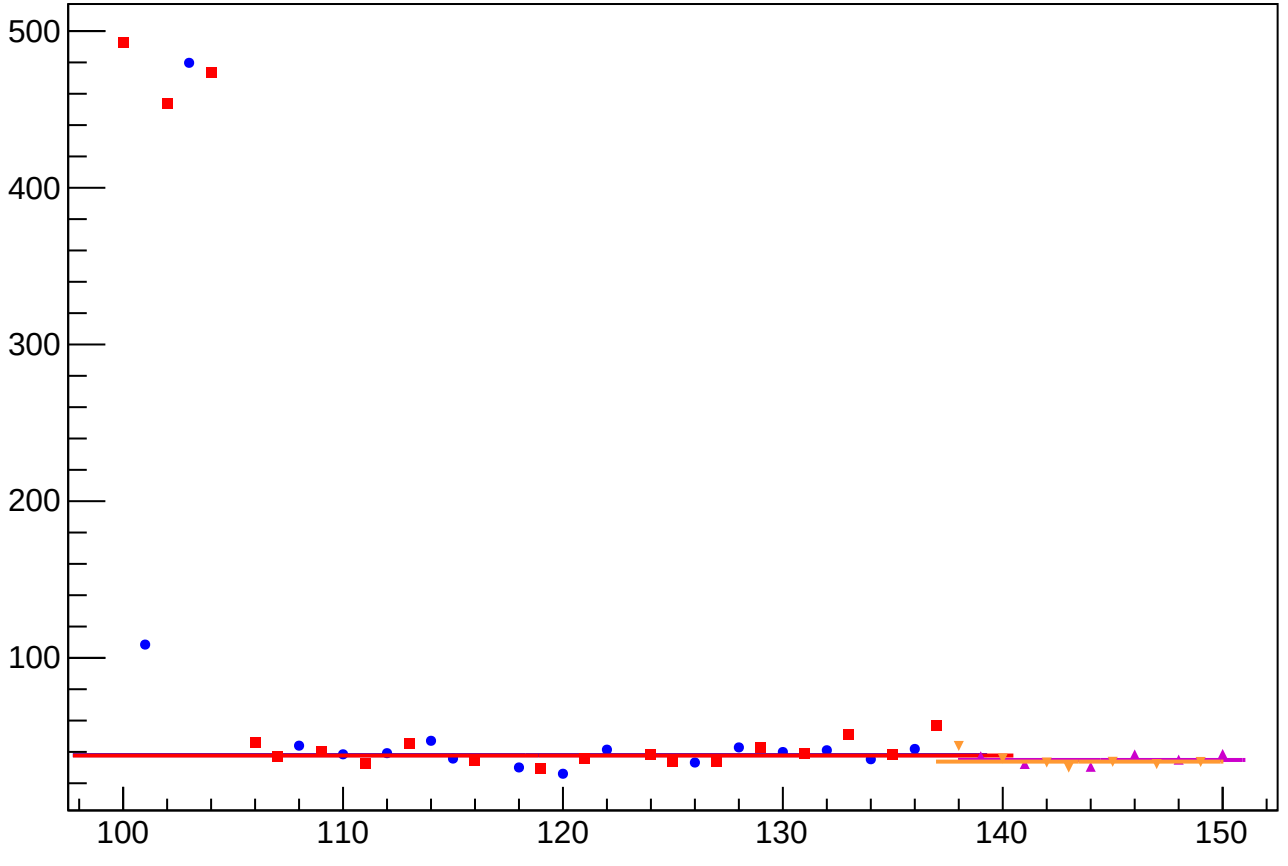
Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.003+/-0.011 $\chi^2$/NDF:30.5/21

Out: 0.009+/-0.011 $\chi^2$/NDF:29.2/25

All: 0.003+/-0.008 $\chi^2$/NDF: 60.3/47

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739681.1/15

Left Out: 33.811+/-0.011 $\chi^2$/NDF:103220.8/6

Right Out: 37.695+/-0.011 $\chi^2$/NDF: 1944959.2/18

Left In: 34.857+/-0.011 $\chi^2$/NDF:77073.2/5

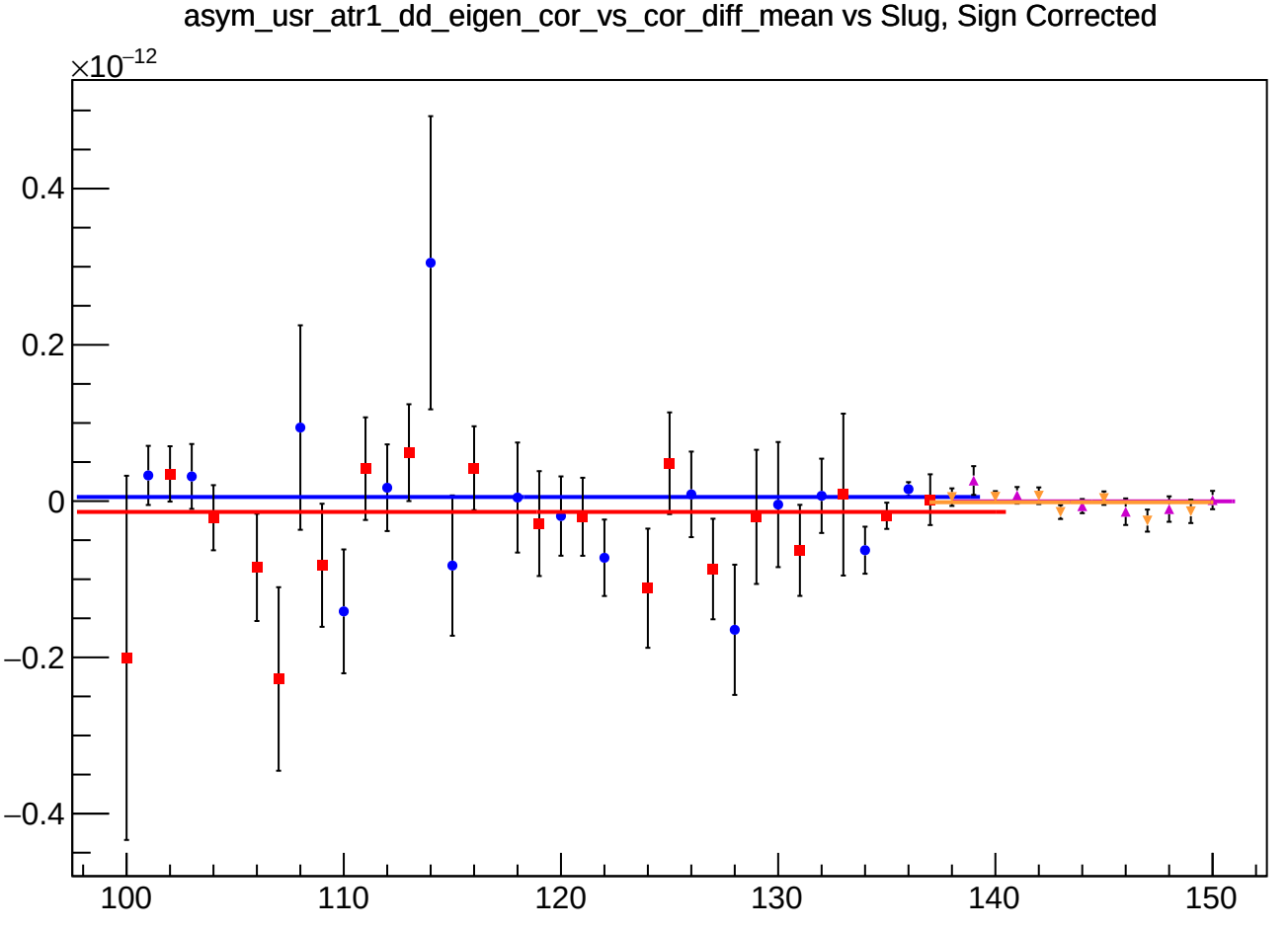
Left: 34.320+/-0.008 $\chi^2$/NDF: 184551.4/12

Right: 37.819+/-0.008 $\chi^2$/NDF: 3684879.3/34

In: 36.430+/-0.008 $\chi^2$/NDF:1853496.0/21

Out: 35.723+/-0.008 $\chi^2$/NDF:2107621.3/25

All: 36.073+/-0.006 $\chi^2$/NDF: 3965015.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.1/5

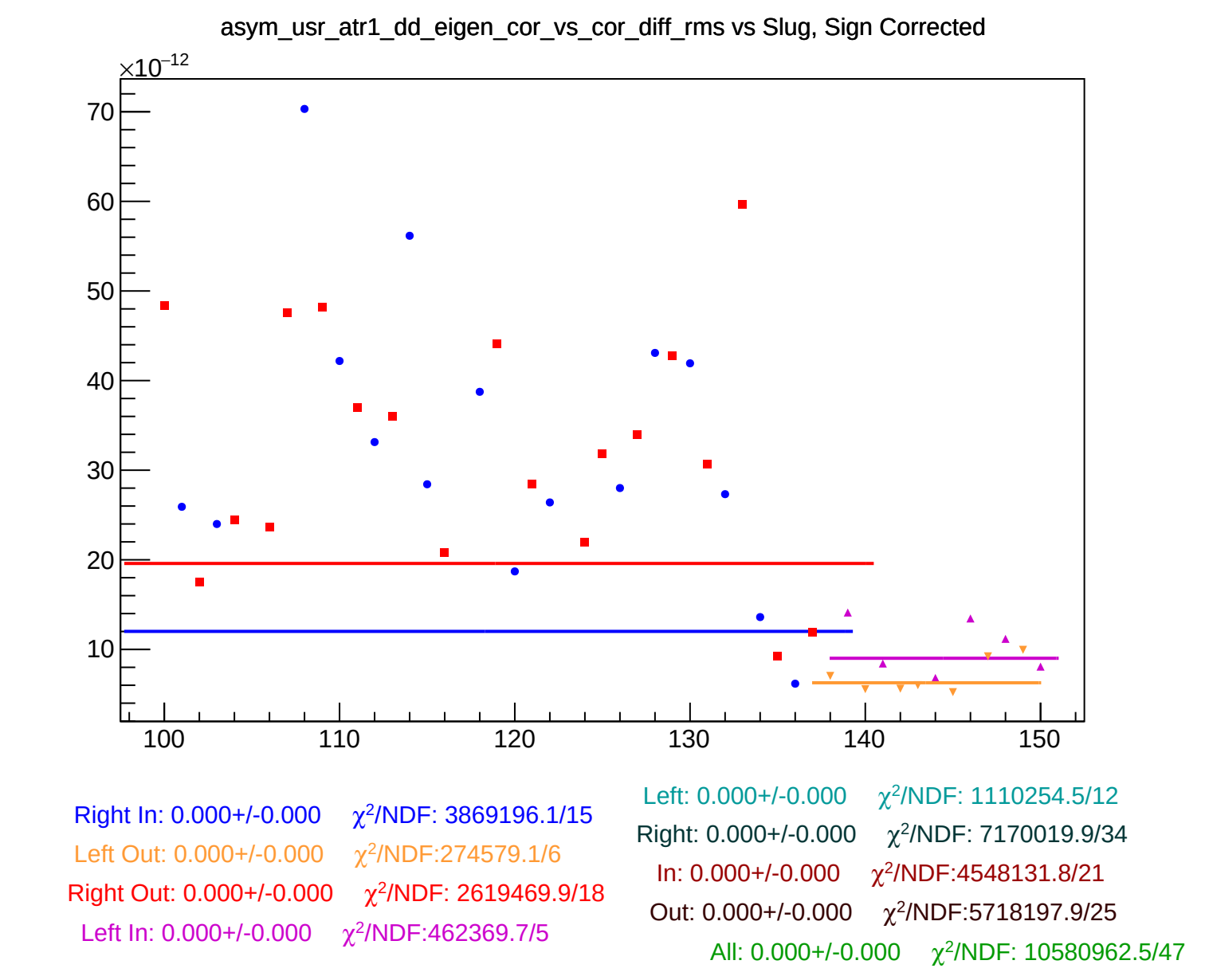
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.7/12

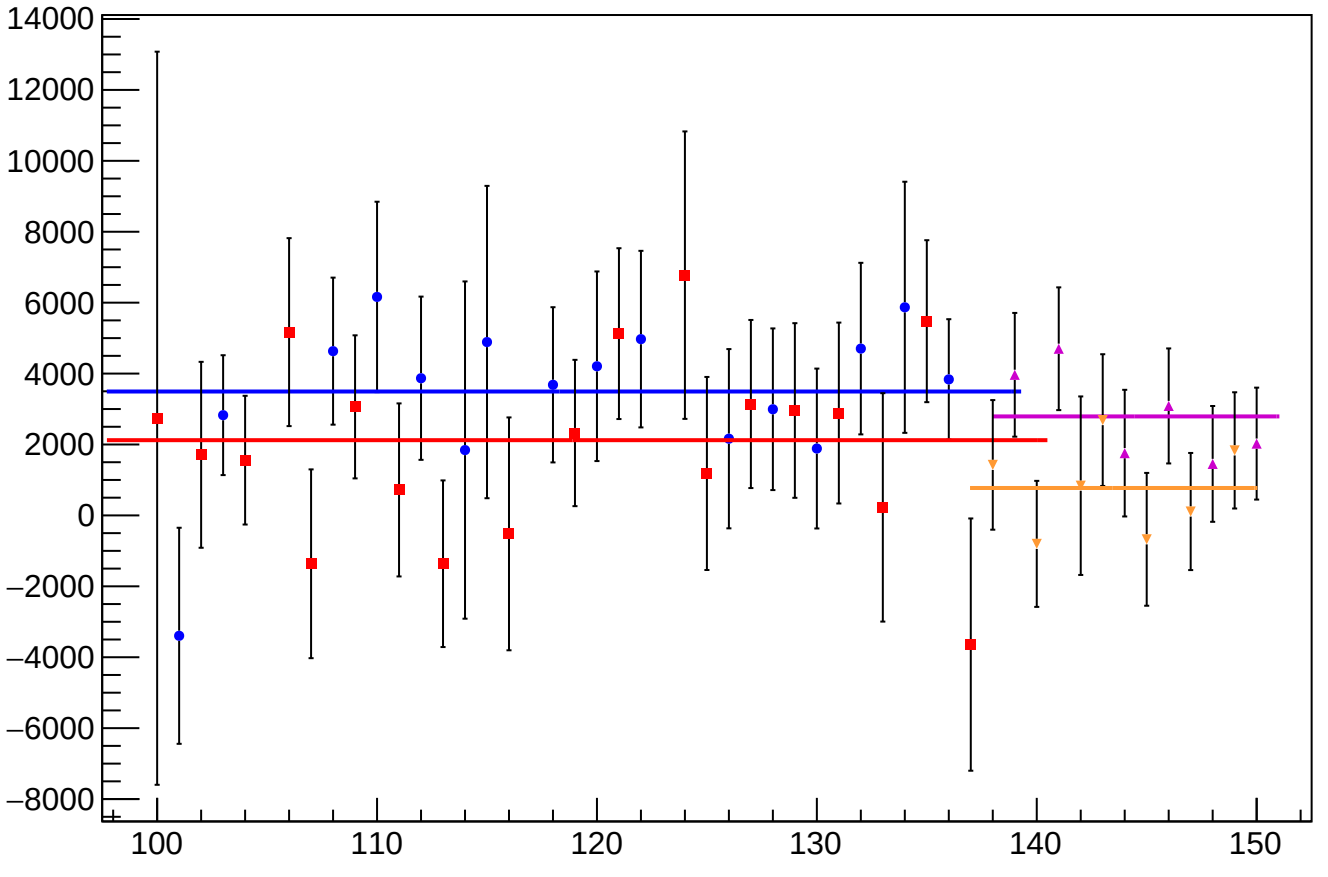
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 51.5/47


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3869196.1/15
Left Out: 0.000+/-0.000 χ²/NDF:274579.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 2619469.9/18
Left In: 0.000+/-0.000 χ²/NDF:462369.7/5
Left: 0.000+/-0.000 χ²/NDF: 1110254.5/12
Right: 0.000+/-0.000 χ²/NDF: 7170019.9/34
In: 0.000+/-0.000 χ²/NDF:4548131.8/21
Out: 0.000+/-0.000 χ²/NDF:5718197.9/25
All: 0.000+/-0.000 χ²/NDF: 10580962.5/47




Right In: 3494.380+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 773.362+/-692.140 $\chi^2$/NDF:3.2/6

Right Out: 2121.717+/-587.617 $\chi^2$/NDF: 15.1/18

Left In: 2791.882+/-684.836 $\chi^2$/NDF:2.9/5

Left: 1793.329+/-486.814 $\chi^2$/NDF: 10.4/12

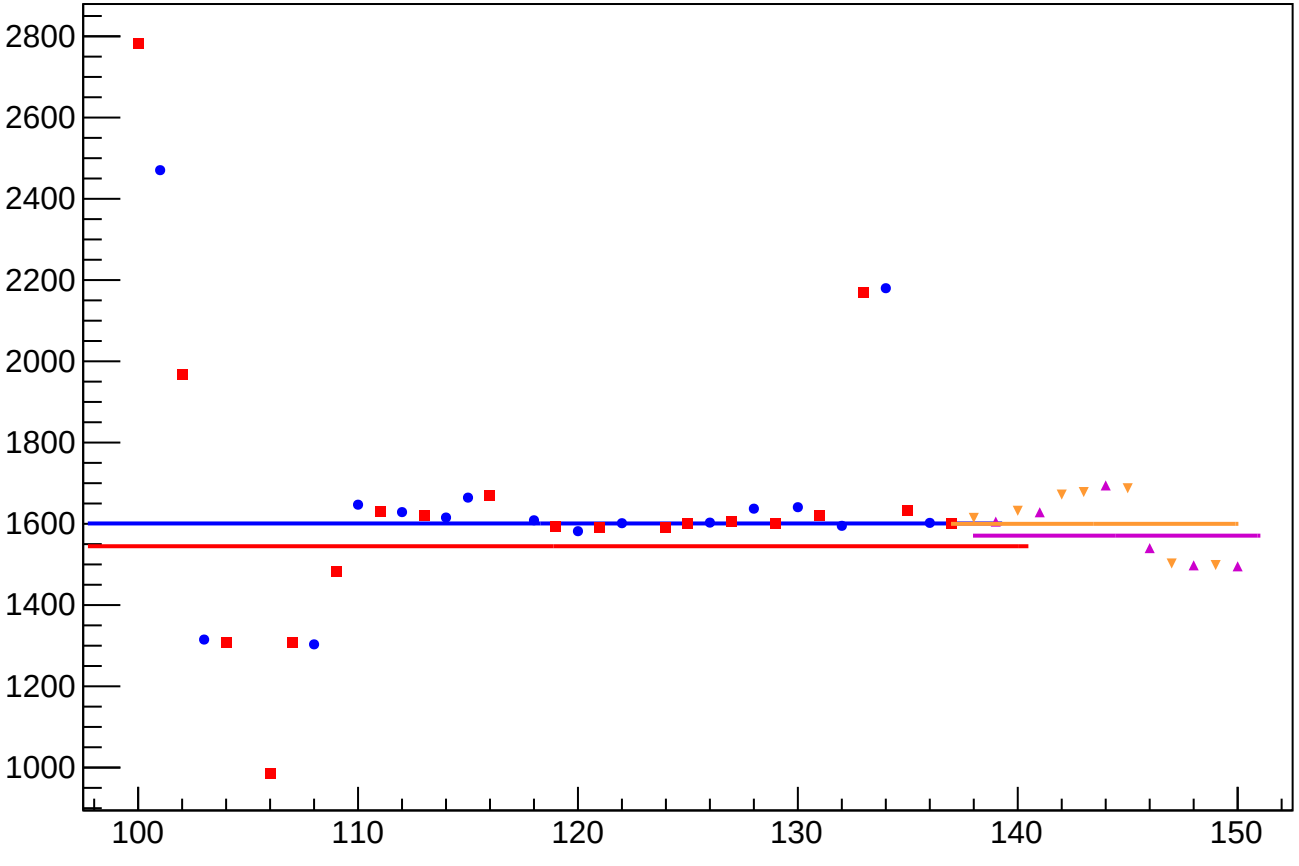
Right: 2792.384+/-420.223 $\chi^2$/NDF: 26.6/34

In: 3188.633+/-451.798 $\chi^2$/NDF:12.4/21

Out: 1556.936+/-447.953 $\chi^2$/NDF:20.4/25

All: 2365.810+/-318.101 $\chi^2$/NDF: 39.4/47

# reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317414.0/15

Left Out: 1599.939+/-0.489 $\chi^2$/NDF:24979.5/6

Right Out: 1544.809+/-0.409 $\chi^2$/NDF: 376127.4/18

Left In: 1570.864+/-0.484 $\chi^2$/NDF:21879.3/5

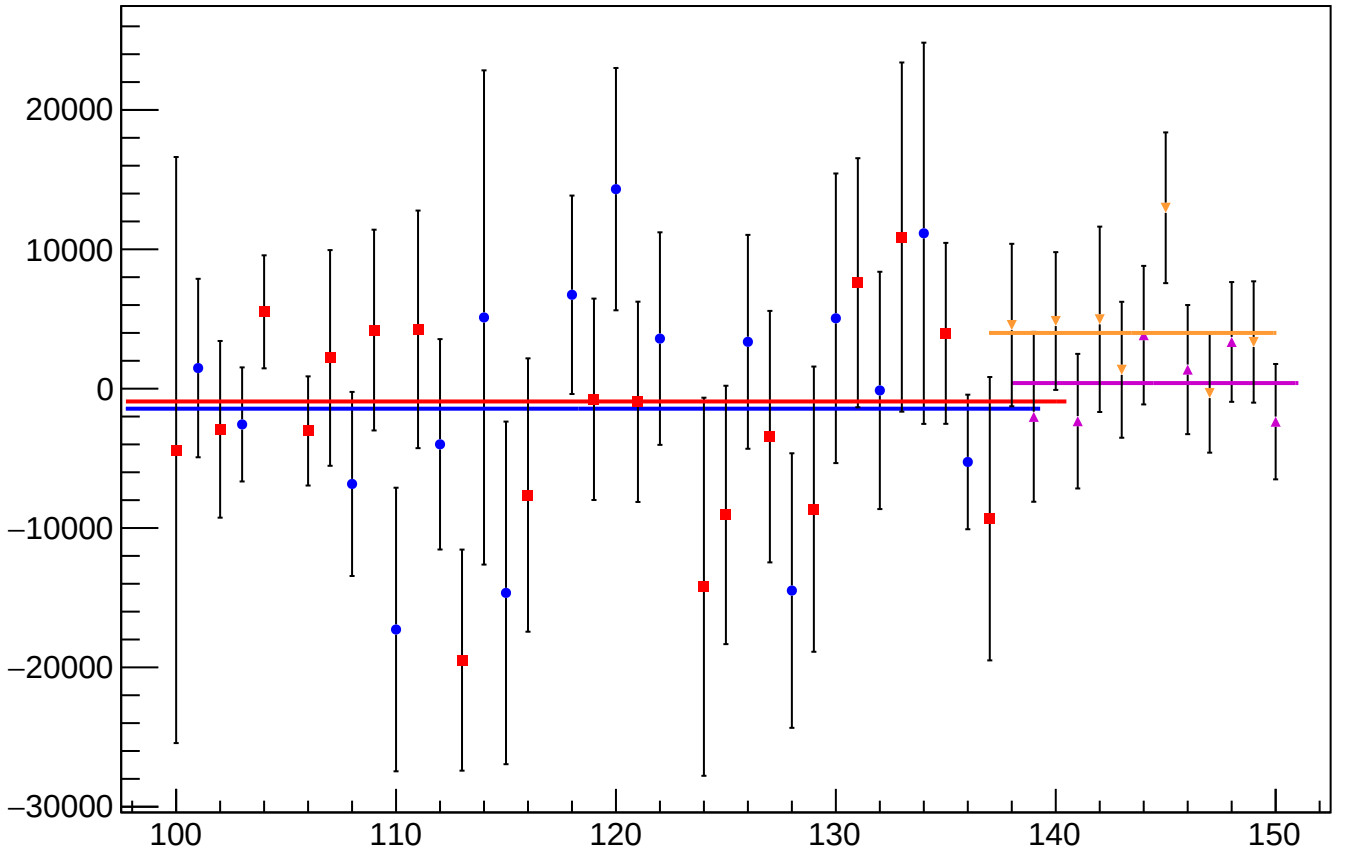
Left: 1585.248+/-0.344 $\chi^2$/NDF: 48642.0/12

Right: 1571.734+/-0.295 $\chi^2$/NDF: 702584.8/34

In: 1587.816+/-0.319 $\chi^2$/NDF:341463.0/21

Out: 1567.451+/-0.314 $\chi^2$/NDF:408584.3/25

All: 1577.446+/-0.224 $\chi^2$/NDF: 752116.5/47




Right In: -1437.118+/-1848.287 $\chi^2$/NDF: 13.9/15

Left Out: 3998.709+/-1901.596 $\chi^2$/NDF:4.1/6

Right Out: -918.485+/-1669.278 $\chi^2$/NDF: 15.3/18

Left In: 401.350+/-1926.633 $\chi^2$/NDF:1.9/5

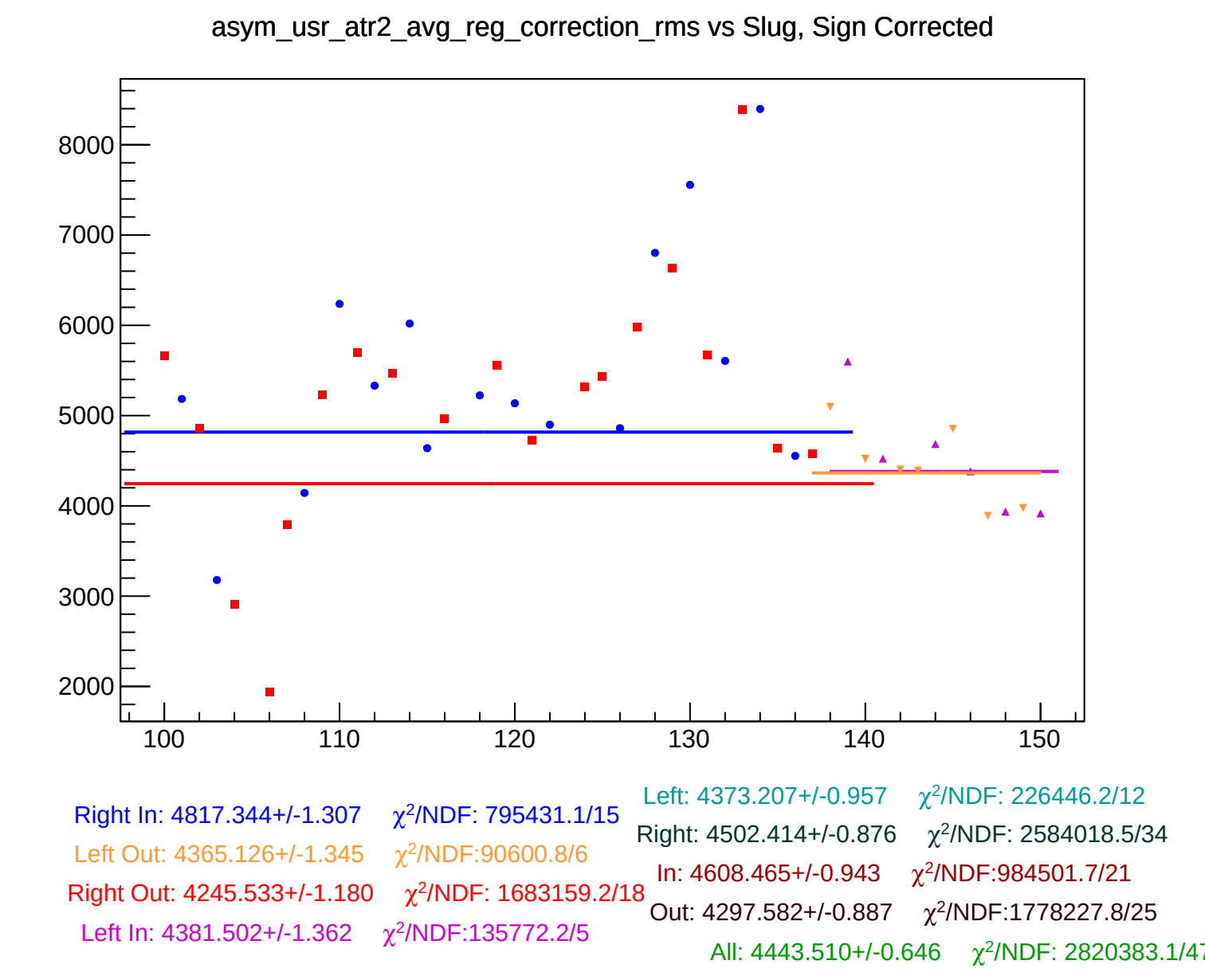
Left: 2223.556+/-1353.396 $\chi^2$/NDF: 7.8/12

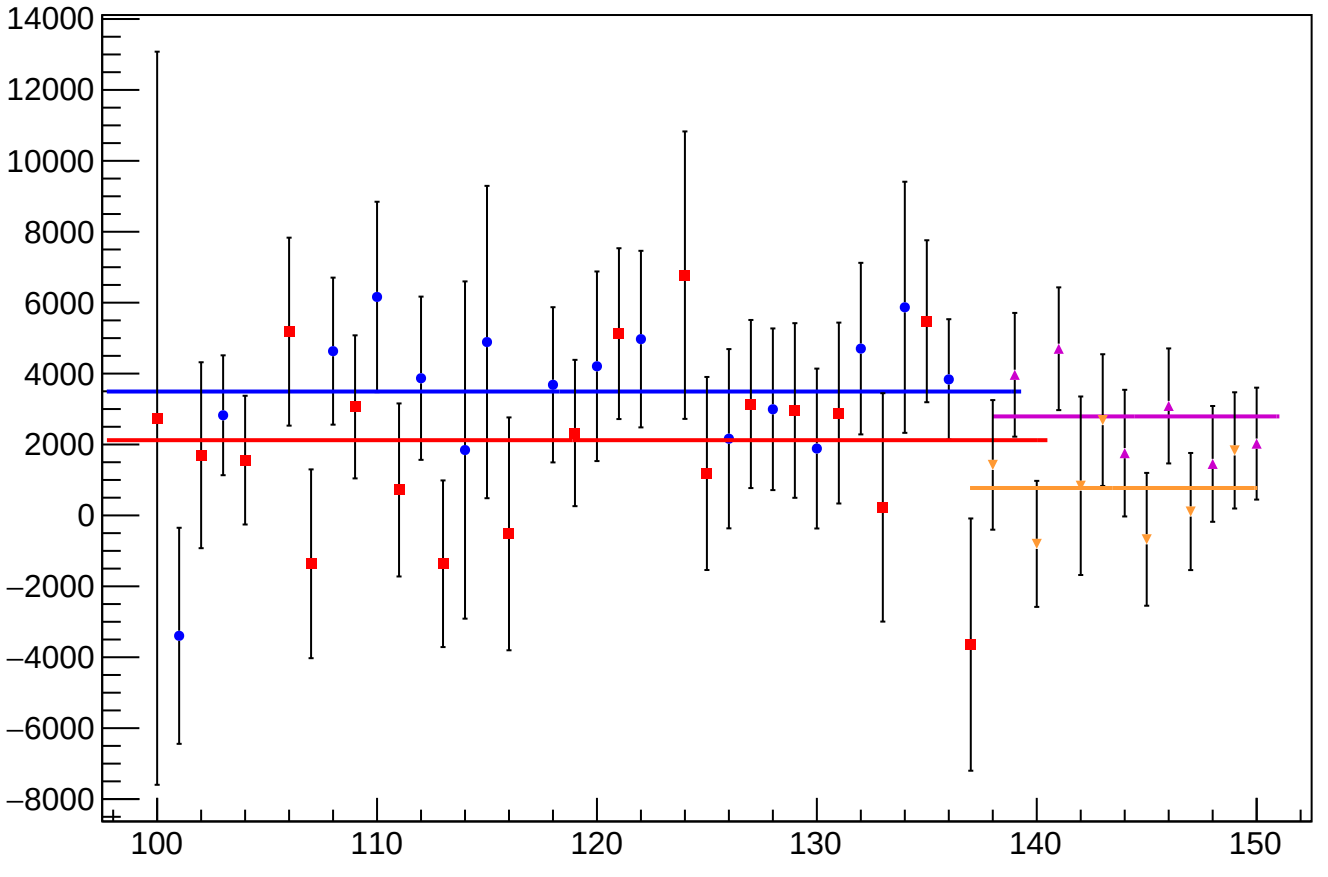
Right: -1151.477+/-1238.823 $\chi^2$/NDF: 29.2/34

In: -556.024+/-1333.774 $\chi^2$/NDF:16.2/21

Out: 1221.552+/-1254.499 $\chi^2$/NDF:23.3/25

All: 387.158+/-913.805 $\chi^2$/NDF: 40.5/47


asym_usr_atr2_avg_reg_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
100
110
120
130
140
150
Right In: 4817.344+/-1.307 χ²/NDF: 795431.1/15
Left Out: 4365.126+/-1.345 χ²/NDF:90600.8/6
Right Out: 4245.533+/-1.180 χ²/NDF: 1683159.2/18
Left In: 4381.502+/-1.362 χ²/NDF:135772.2/5
Left: 4373.207+/-0.957 χ²/NDF: 226446.2/12
Right: 4502.414+/-0.876 χ²/NDF: 2584018.5/34
In: 4608.465+/-0.943 χ²/NDF:984501.7/21
Out: 4297.582+/-0.887 χ²/NDF:1778227.8/25
All: 4443.510+/-0.646 χ²/NDF: 2820383.1/47




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 773.312+/-692.140 $\chi^2$/NDF:3.2/6

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 2792.066+/-684.836 $\chi^2$/NDF:2.9/5

Left: 1793.398+/-486.814 $\chi^2$/NDF: 10.4/12

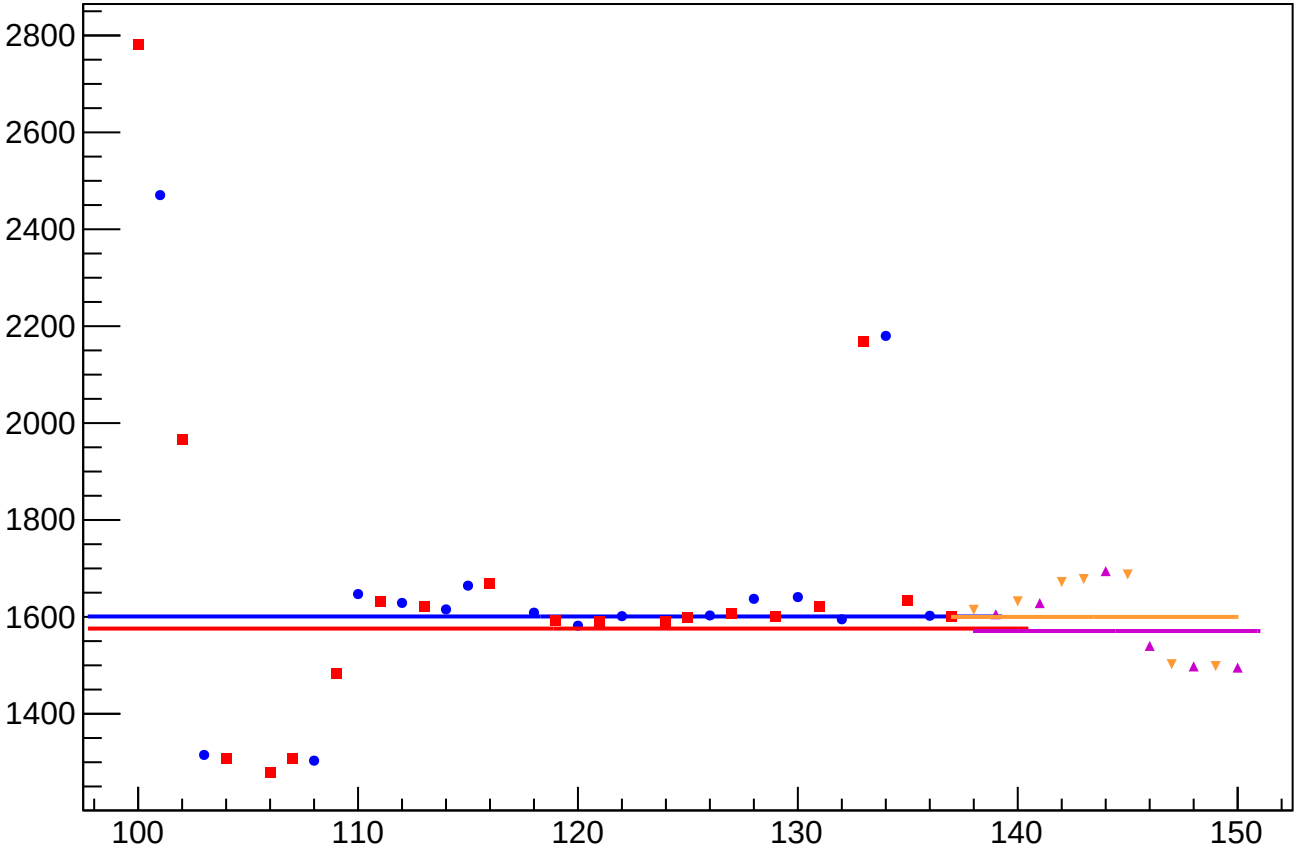
Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 3188.525+/-451.798 $\chi^2$/NDF:12.4/21

Out: 1556.907+/-447.954 $\chi^2$/NDF:20.5/25

All: 2365.744+/-318.102 $\chi^2$/NDF: 39.4/47

# cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1599.939+/-0.489 $\chi^2$/NDF:24979.5/6

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1570.864+/-0.484 $\chi^2$/NDF:21879.3/5

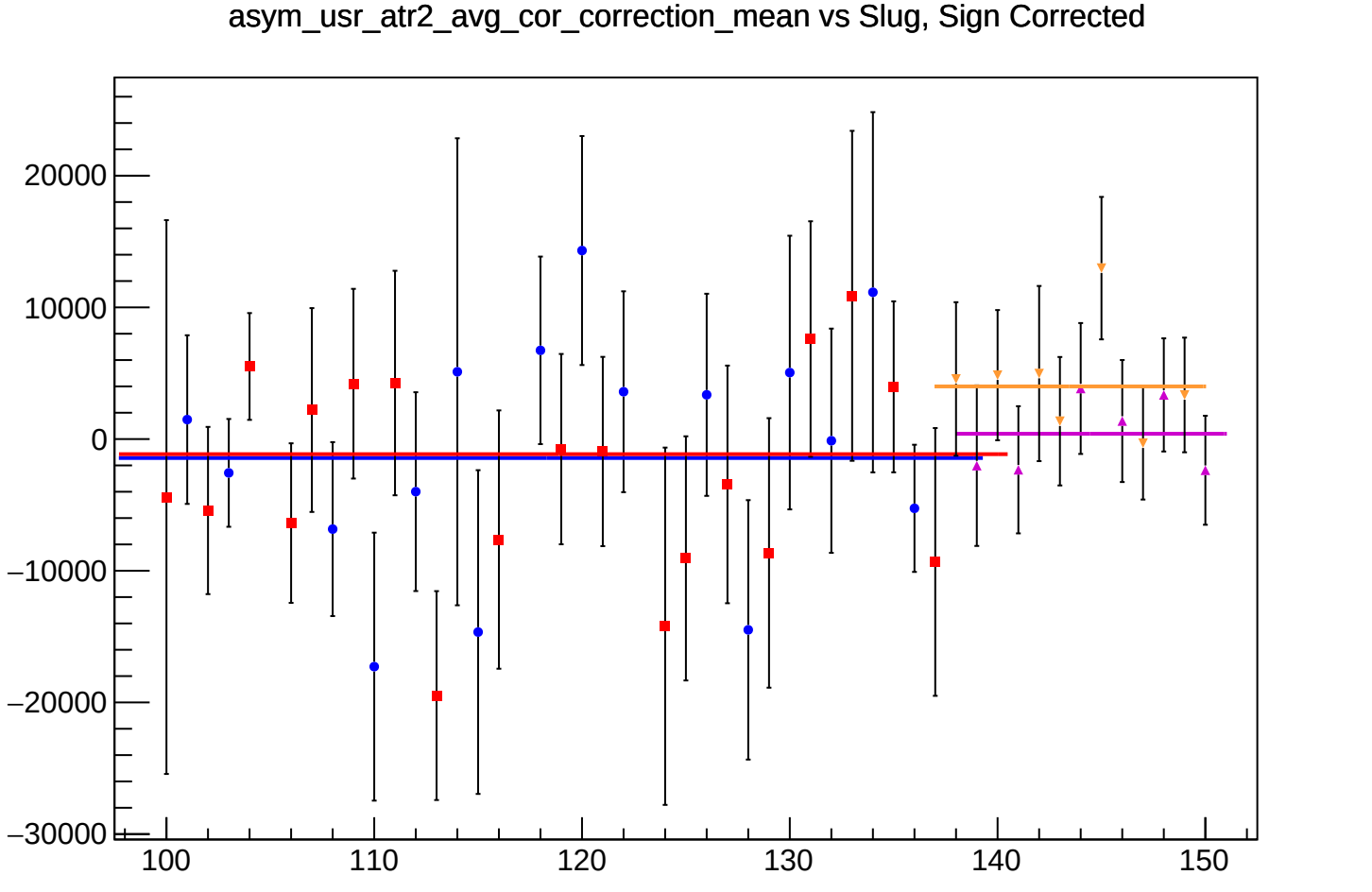
Left: 1585.248+/-0.344 $\chi^2$/NDF: 48642.0/12

Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1587.816+/-0.319 $\chi^2$/NDF:341462.2/21

Out: 1585.923+/-0.316 $\chi^2$/NDF:269718.0/25

All: 1586.860+/-0.225 $\chi^2$/NDF: 611198.0/47




Right In: -1437.362+/-1848.324 $\chi^2$/NDF: 13.9/15

Left Out: 3998.693+/-1901.589 $\chi^2$/NDF:4.1/6

Right Out: -1146.174+/-1765.384 $\chi^2$/NDF: 16.3/18

Left In: 401.526+/-1926.632 $\chi^2$/NDF:1.9/5

Left: 2223.640+/-1353.394 $\chi^2$/NDF: 7.8/12

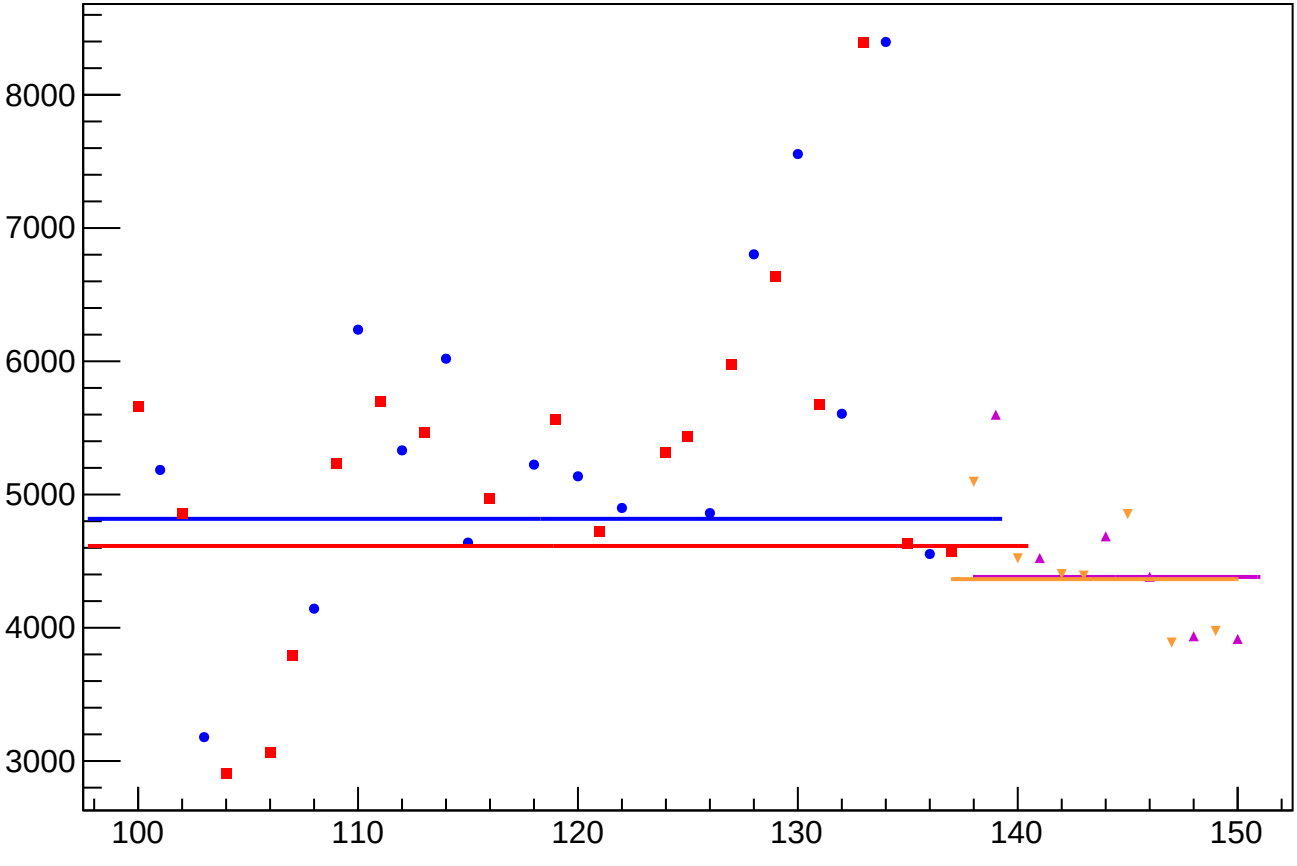
Right: -1285.089+/-1276.630 $\chi^2$/NDF: 30.1/34

In: -556.048+/-1333.787 $\chi^2$/NDF:16.2/21

Out: 1235.423+/-1293.790 $\chi^2$/NDF:24.3/25

All: 366.952+/-928.666 $\chi^2$/NDF: 41.5/47

asym_usr_atr2_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 4365.110+/-1.345 $\chi^2$/NDF:90601.6/6

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 4381.501+/-1.362 $\chi^2$/NDF:135772.3/5

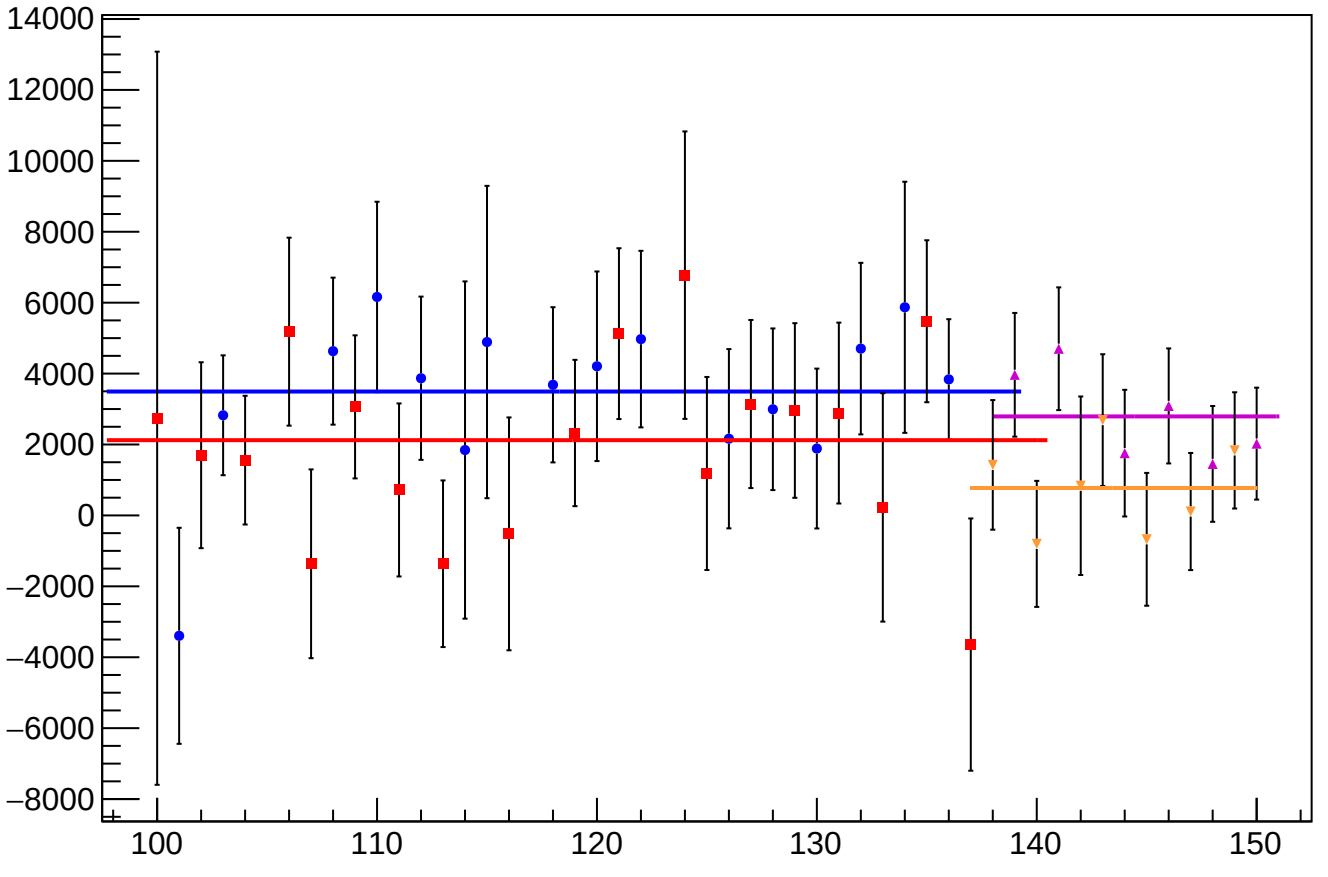
Left: 4373.198+/-0.957 $\chi^2$/NDF: 226447.2/12

Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 4608.530+/-0.943 $\chi^2$/NDF:984336.6/21

Out: 4498.707+/-0.915 $\chi^2$/NDF:1086939.5/25

All: 4551.947+/-0.657 $\chi^2$/NDF: 2078262.3/47




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 773.312+/-692.140 $\chi^2$/NDF:3.2/6

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 2792.066+/-684.836 $\chi^2$/NDF:2.9/5

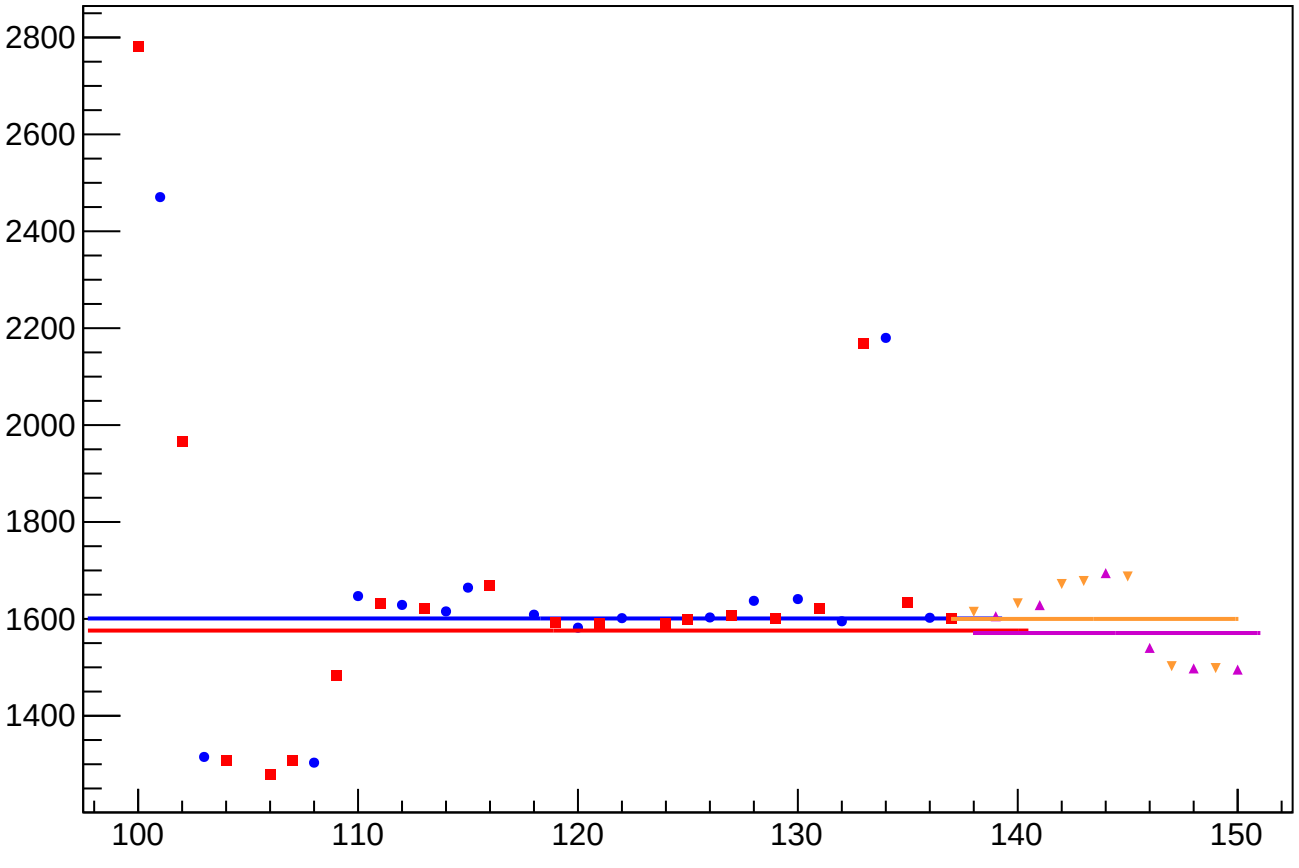
Left: 1793.398+/-486.814 $\chi^2$/NDF: 10.4/12

Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 3188.525+/-451.798 $\chi^2$/NDF:12.4/21

Out: 1556.907+/-447.954 $\chi^2$/NDF:20.5/25

All: 2365.744+/-318.102 $\chi^2$/NDF: 39.4/47




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1599.939+/-0.489 $\chi^2$/NDF:24979.5/6

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1570.864+/-0.484 $\chi^2$/NDF:21879.3/5

Left: 1585.248+/-0.344 $\chi^2$/NDF: 48642.0/12

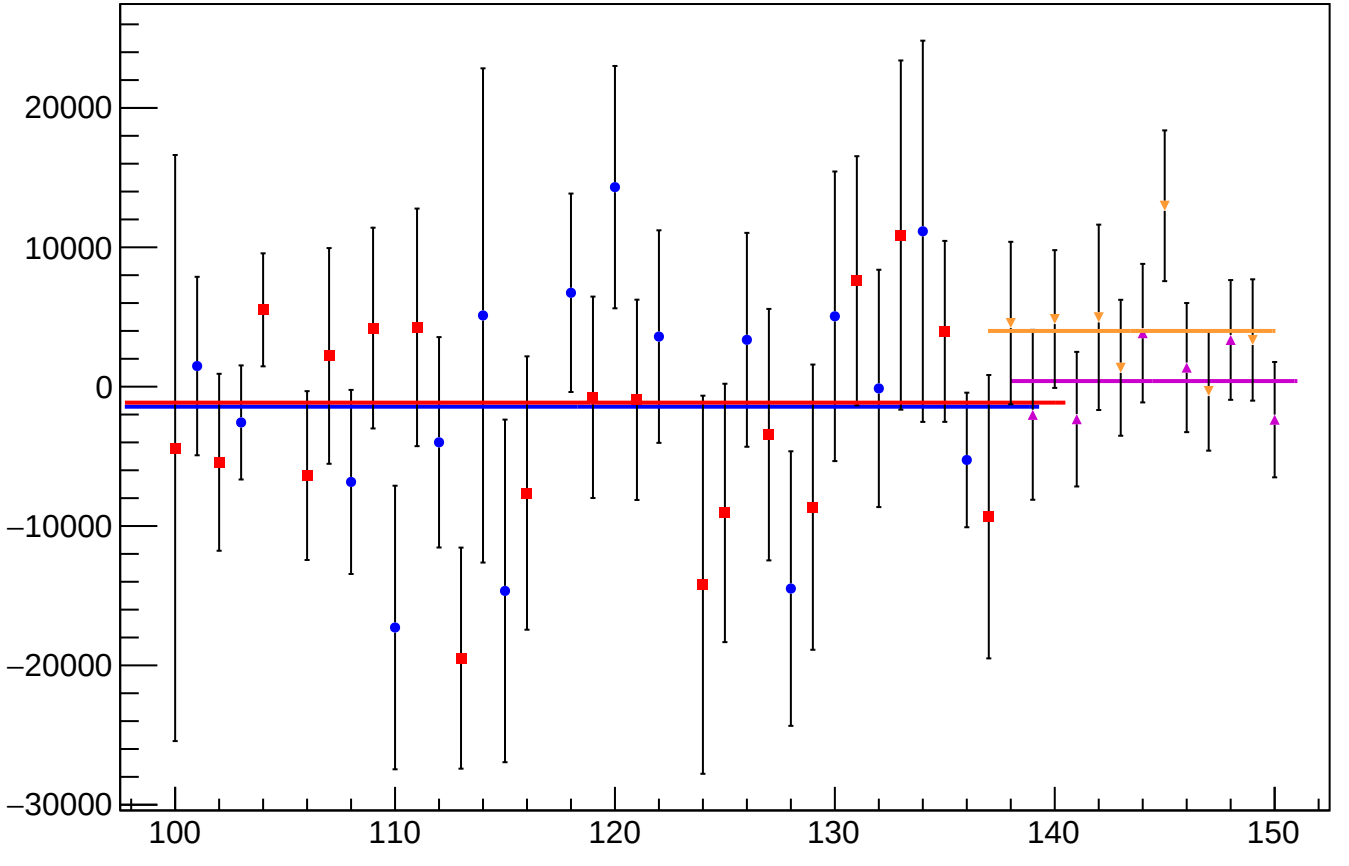
Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1587.816+/-0.319 $\chi^2$/NDF:341462.2/21

Out: 1585.923+/-0.316 $\chi^2$/NDF:269718.0/25

All: 1586.860+/-0.225 $\chi^2$/NDF: 611198.0/47

asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1437.362+/-1848.324 $\chi^2$/NDF: 13.9/15

Left Out: 3998.693+/-1901.589 $\chi^2$/NDF:4.1/6

Right Out: -1146.174+/-1765.384 $\chi^2$/NDF: 16.3/18

Left In: 401.526+/-1926.632 $\chi^2$/NDF:1.9/5

Left: 2223.640+/-1353.394 $\chi^2$/NDF: 7.8/12

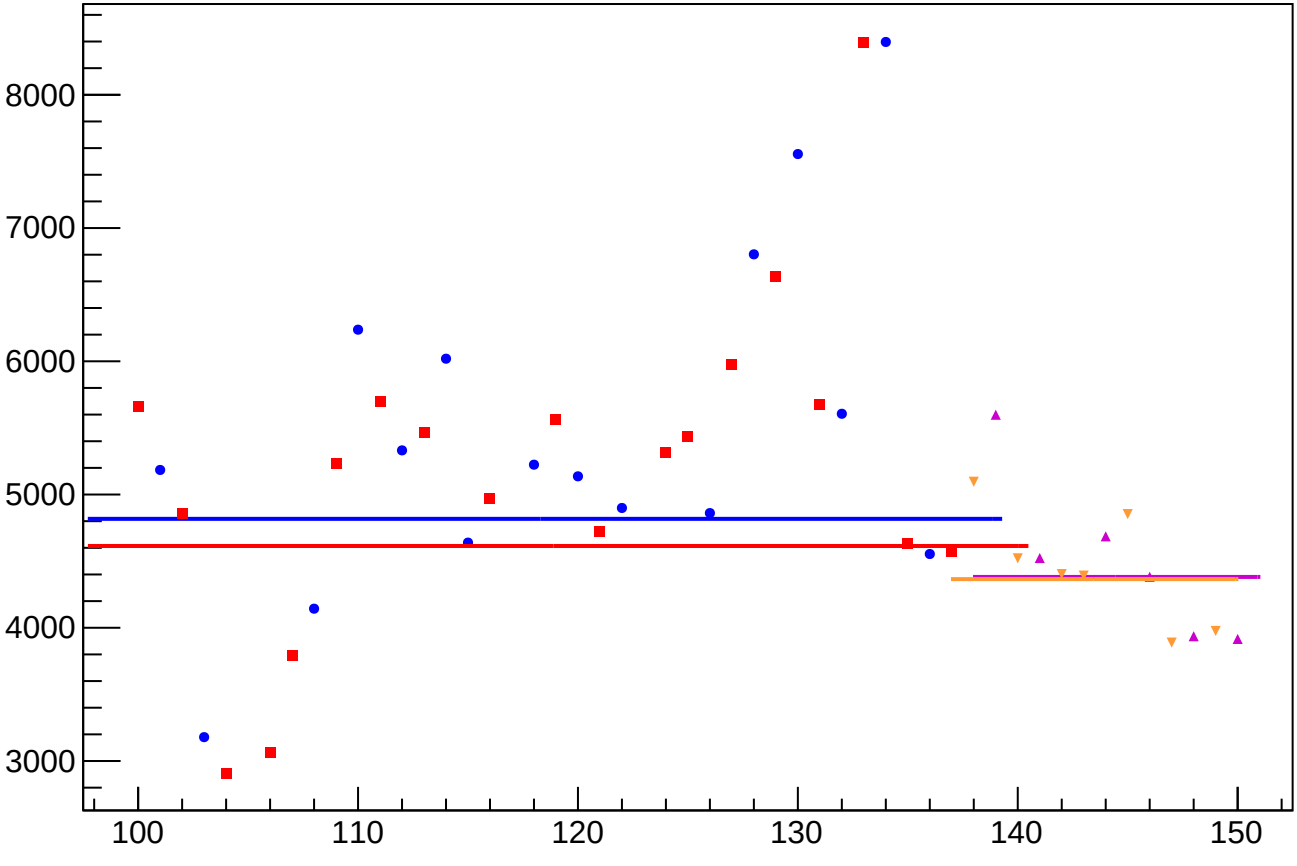
Right: -1285.089+/-1276.630 $\chi^2$/NDF: 30.1/34

In: -556.048+/-1333.787 $\chi^2$/NDF:16.2/21

Out: 1235.423+/-1293.790 $\chi^2$/NDF:24.3/25

All: 366.952+/-928.666 $\chi^2$/NDF: 41.5/47

asym_usr_atr2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 4365.110+/-1.345 $\chi^2$/NDF:90601.6/6

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 4381.501+/-1.362 $\chi^2$/NDF:135772.3/5

Left: 4373.198+/-0.957 $\chi^2$/NDF: 226447.2/12

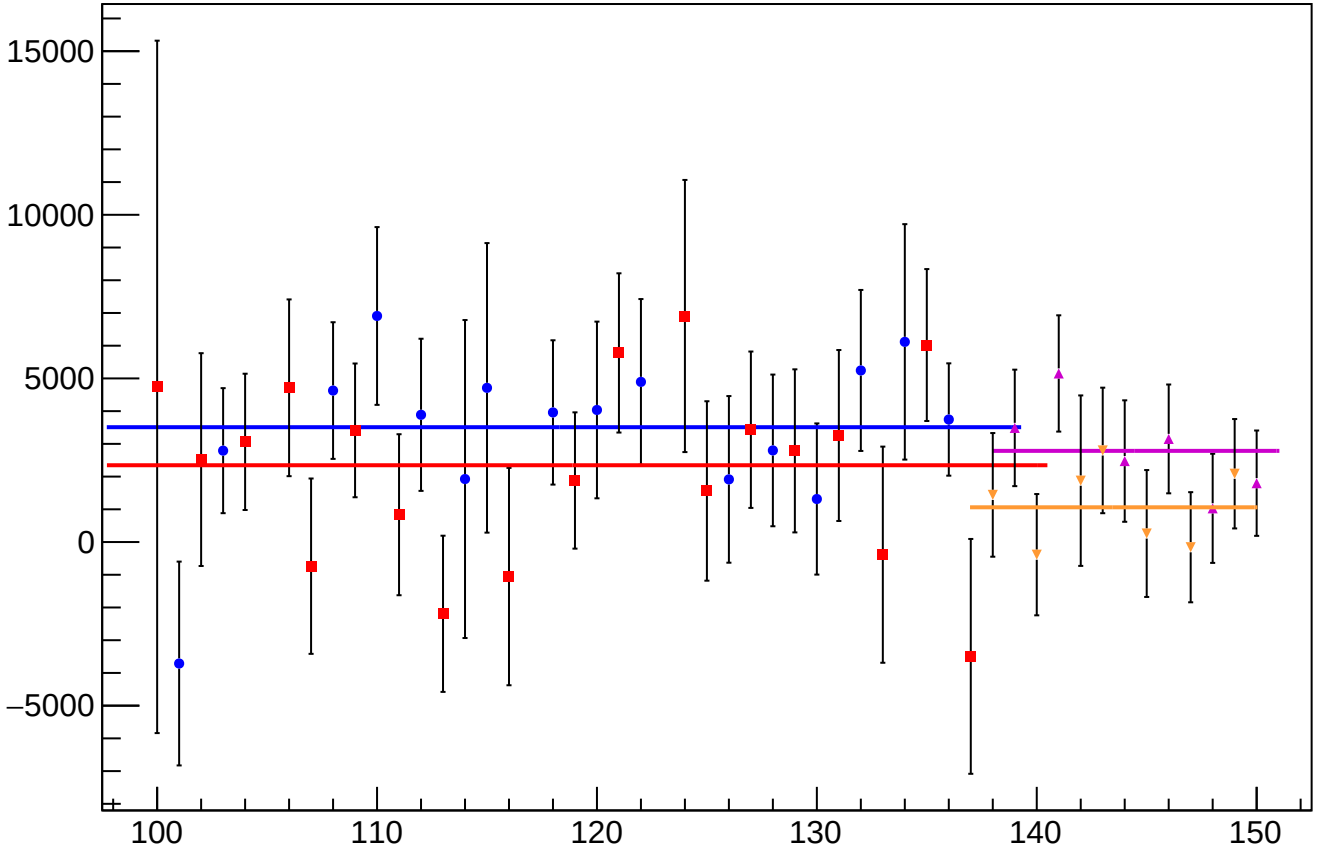
Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 4608.530+/-0.943 $\chi^2$/NDF:984336.6/21

Out: 4498.707+/-0.915 $\chi^2$/NDF:1086939.5/25

All: 4551.947+/-0.657 $\chi^2$/NDF: 2078262.3/47

# dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected




Right In: 3509.507+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1061.551+/-712.929 $\chi^2$/NDF:2.6/6

Right Out: 2346.859+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 2786.103+/-701.855 $\chi^2$/NDF:3.5/5

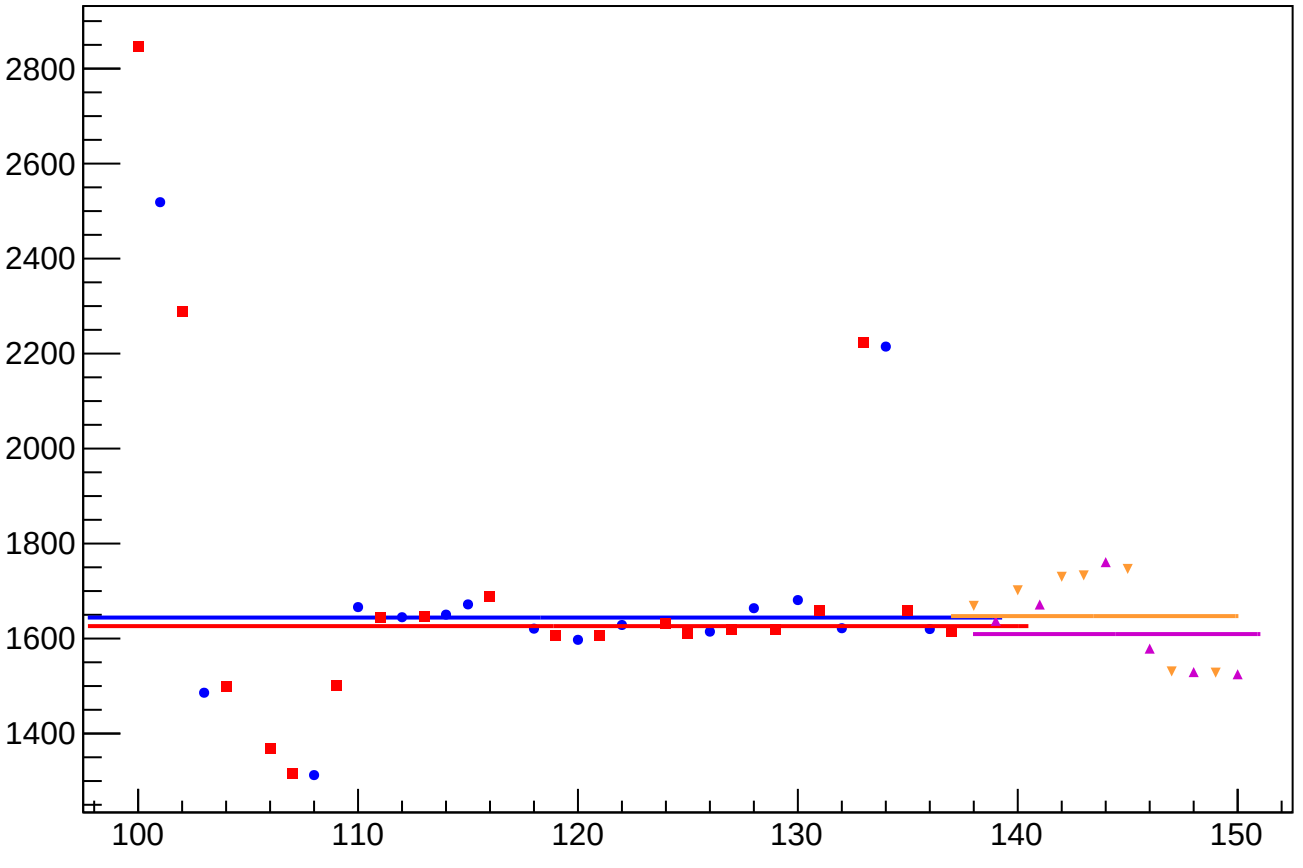
Left: 1937.324+/-500.156 $\chi^2$/NDF: 9.1/12

Right: 2919.425+/-432.793 $\chi^2$/NDF: 29.3/34

In: 3194.316+/-463.281 $\chi^2$/NDF:14.5/21

Out: 1806.177+/-462.395 $\chi^2$/NDF:21.6/25

All: 2498.919+/-327.275 $\chi^2$/NDF: 40.6/47




Right In: 1644.198+/-0.436 $\chi^2$/NDF: 274817.9/15

Left Out: 1647.248+/-0.504 $\chi^2$/NDF:32966.3/6

Right Out: 1626.174+/-0.429 $\chi^2$/NDF: 237639.1/18

Left In: 1609.417+/-0.496 $\chi^2$/NDF:27071.9/5

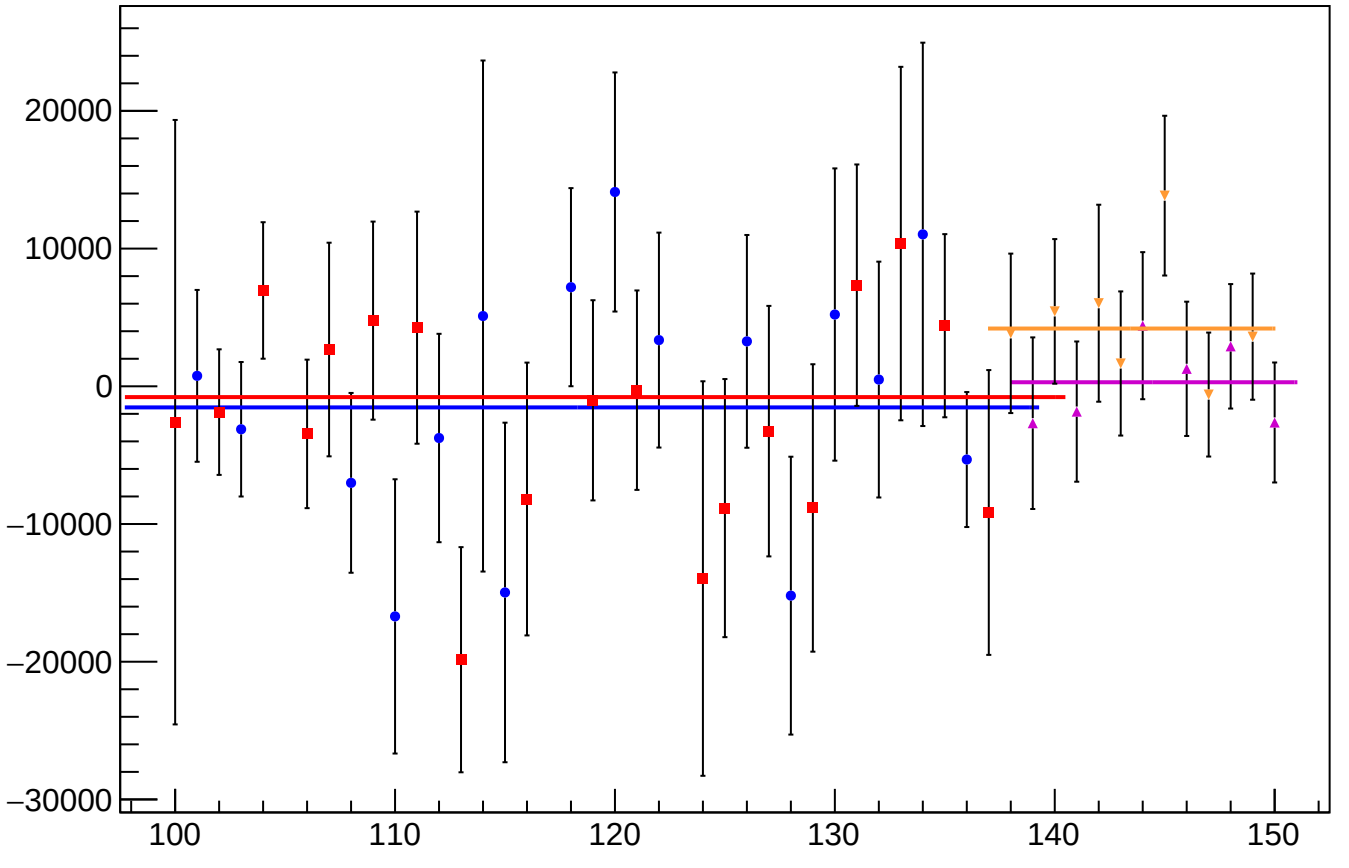
Left: 1628.036+/-0.354 $\chi^2$/NDF: 62898.1/12

Right: 1635.043+/-0.306 $\chi^2$/NDF: 513324.8/34

In: 1629.044+/-0.328 $\chi^2$/NDF:304661.4/21

Out: 1635.030+/-0.327 $\chi^2$/NDF:271618.6/25

All: 1632.044+/-0.231 $\chi^2$/NDF: 576447.4/47




Right In: -1532.110+/-1913.799 $\chi^2$/NDF: 13.9/15

Left Out: 4195.072+/-2004.381 $\chi^2$/NDF:4.3/6

Right Out: -784.235+/-1748.566 $\chi^2$/NDF: 15.0/18

Left In: 294.378+/-2028.086 $\chi^2$/NDF:1.8/5

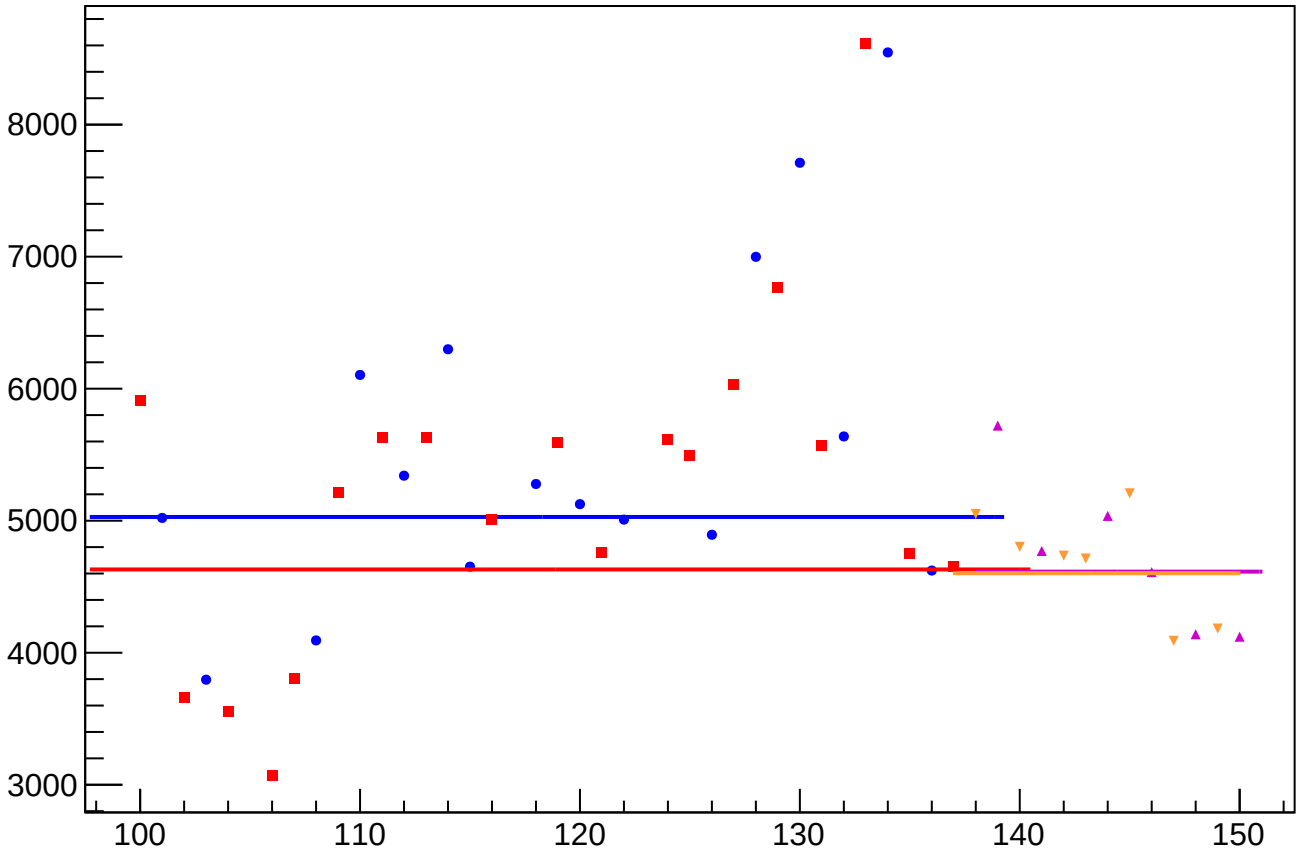
Left: 2267.654+/-1425.618 $\chi^2$/NDF: 8.0/12

Right: -1124.500+/-1290.893 $\chi^2$/NDF: 29.0/34

In: -671.777+/-1391.910 $\chi^2$/NDF:16.1/21

Out: 1367.580+/-1317.645 $\chi^2$/NDF:22.8/25

All: 403.756+/-956.893 $\chi^2$/NDF: 40.1/47




Right In: 5028.449+/-1.353 $\chi^2$/NDF: 565469.4/15

Left Out: 4602.270+/-1.417 $\chi^2$/NDF:80868.2/6

Right Out: 4630.901+/-1.236 $\chi^2$/NDF: 863515.0/18

Left In: 4614.365+/-1.434 $\chi^2$/NDF:125021.4/5

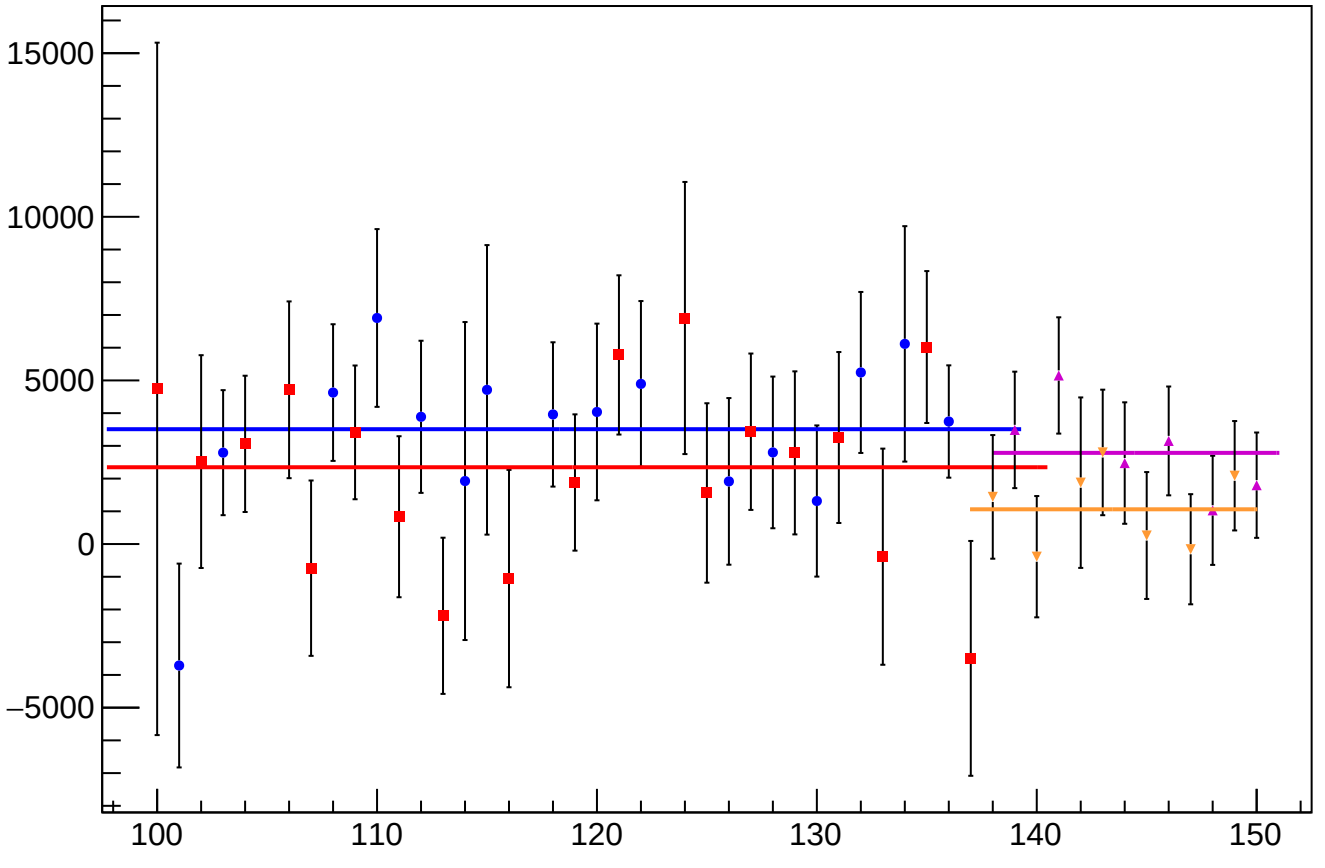
Left: 4608.246+/-1.008 $\chi^2$/NDF: 205925.6/12

Right: 4811.776+/-0.913 $\chi^2$/NDF: 1476020.7/34

In: 4833.402+/-0.984 $\chi^2$/NDF:734593.5/21

Out: 4618.528+/-0.932 $\chi^2$/NDF:944614.9/25

All: 4720.080+/-0.677 $\chi^2$/NDF: 1704345.1/47




Right In: 3509.509+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1061.553+/-712.929 $\chi^2$/NDF:2.6/6

Right Out: 2346.865+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 2786.099+/-701.856 $\chi^2$/NDF:3.5/5

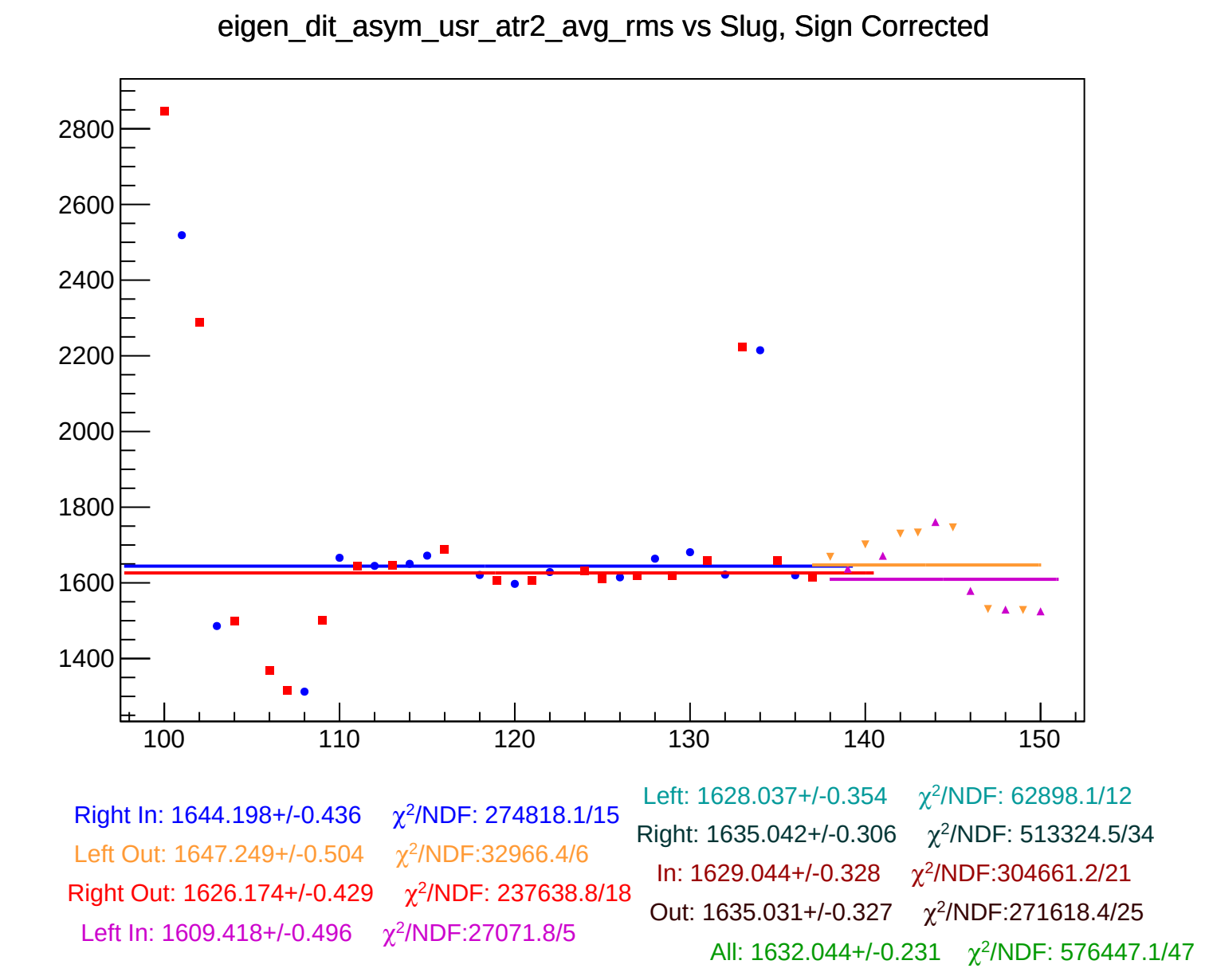
Left: 1937.323+/-500.156 $\chi^2$/NDF: 9.1/12

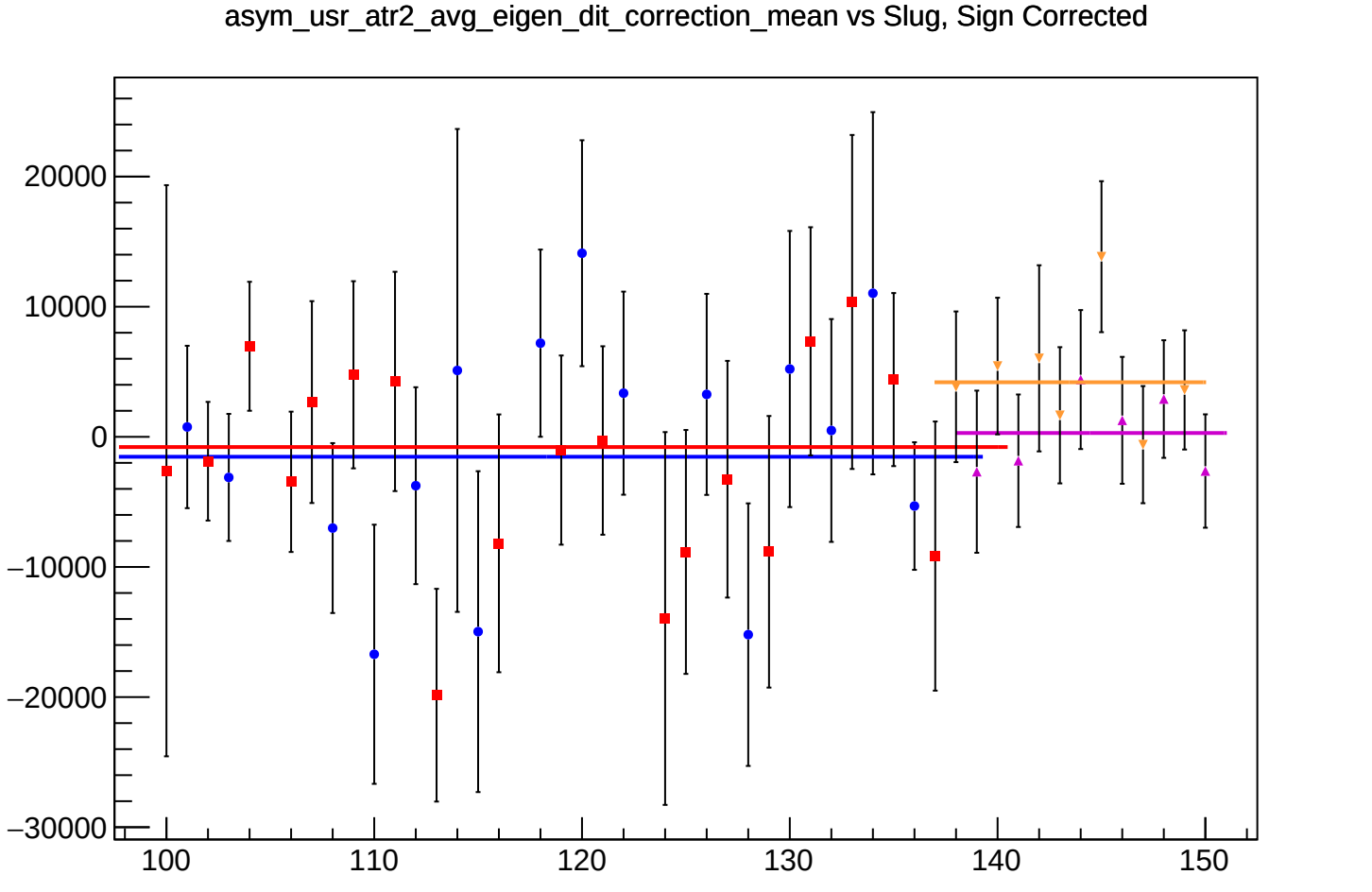
Right: 2919.429+/-432.792 $\chi^2$/NDF: 29.3/34

In: 3194.316+/-463.281 $\chi^2$/NDF:14.5/21

Out: 1806.182+/-462.395 $\chi^2$/NDF:21.6/25

All: 2498.921+/-327.275 $\chi^2$/NDF: 40.6/47


eigen_dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected
2800
2600
2400
2200
2000
1800
1600
1400
100
110
120
130
140
150
Right In: 1644.198+/-0.436 χ²/NDF: 274818.1/15
Left Out: 1647.249+/-0.504 χ²/NDF:32966.4/6
Right Out: 1626.174+/-0.429 χ²/NDF: 237638.8/18
Left In: 1609.418+/-0.496 χ²/NDF:27071.8/5
Left: 1628.037+/-0.354 χ²/NDF: 62898.1/12
Right: 1635.042+/-0.306 χ²/NDF: 513324.5/34
In: 1629.044+/-0.328 χ²/NDF:304661.2/21
Out: 1635.031+/-0.327 χ²/NDF:271618.4/25
All: 1632.044+/-0.231 χ²/NDF: 576447.1/47




Right In: -1532.095+/-1913.796 $\chi^2$/NDF: 13.9/15

Left Out: 4195.075+/-2004.384 $\chi^2$/NDF:4.3/6

Right Out: -784.236+/-1748.563 $\chi^2$/NDF: 15.0/18

Left In: 294.374+/-2028.089 $\chi^2$/NDF:1.8/5

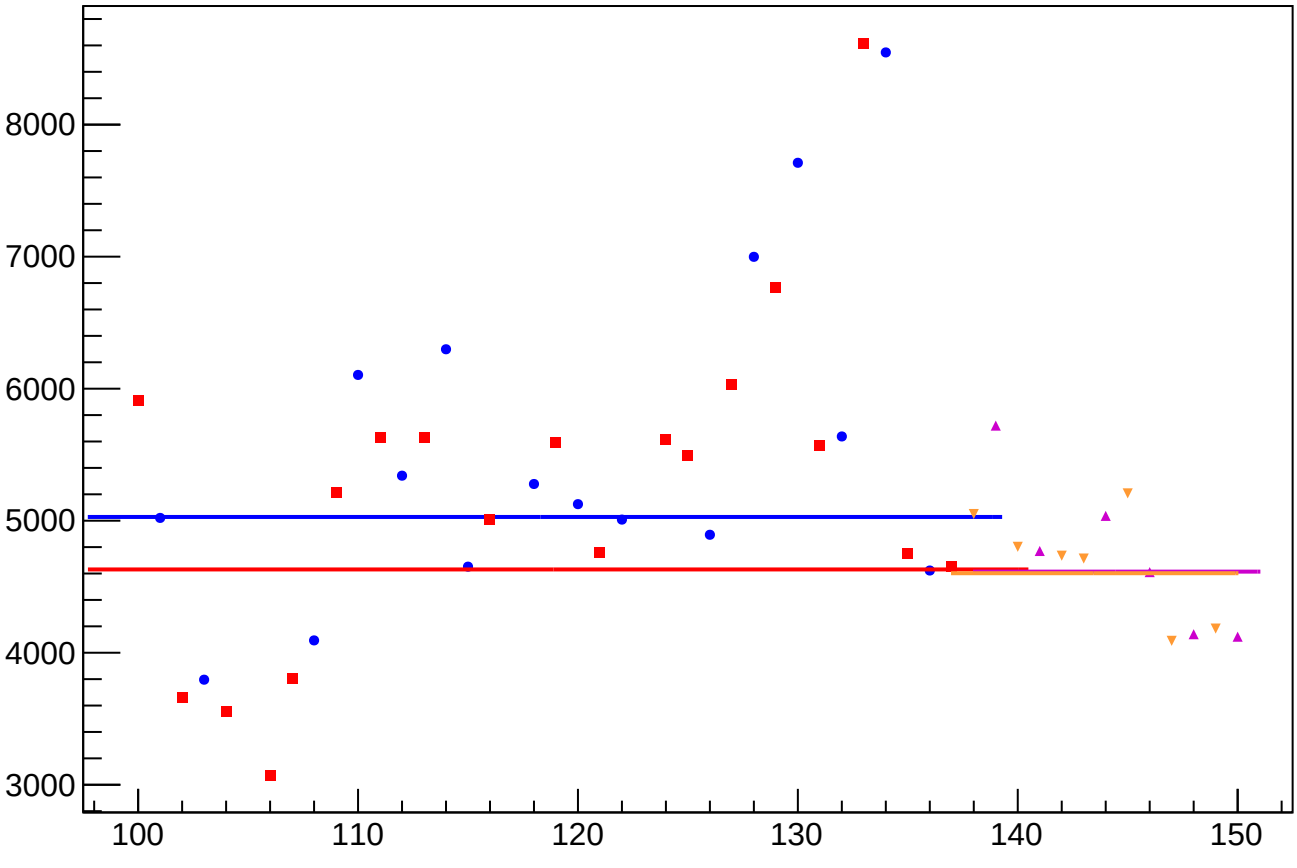
Left: 2267.654+/-1425.621 $\chi^2$/NDF: 8.0/12

Right: -1124.493+/-1290.891 $\chi^2$/NDF: 29.0/34

In: -671.774+/-1391.910 $\chi^2$/NDF:16.1/21

Out: 1367.572+/-1317.644 $\chi^2$/NDF:22.8/25

All: 403.754+/-956.893 $\chi^2$/NDF: 40.1/47




Right In: 5028.443+/-1.353 $\chi^2$/NDF: 565463.1/15

Left Out: 4602.277+/-1.417 $\chi^2$/NDF:80868.4/6

Right Out: 4630.895+/-1.236 $\chi^2$/NDF: 863509.0/18

Left In: 4614.372+/-1.434 $\chi^2$/NDF:125021.4/5

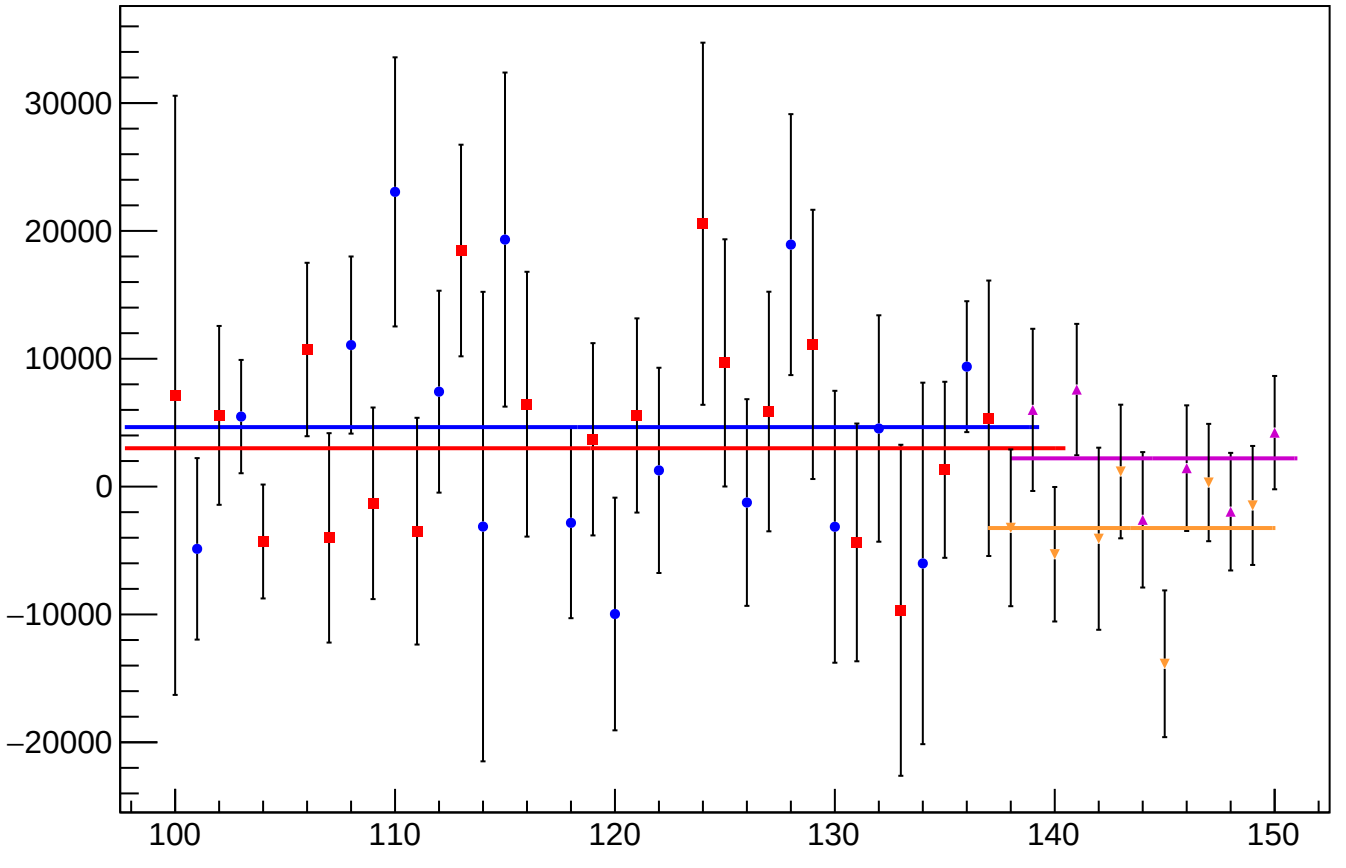
Left: 4608.254+/-1.008 $\chi^2$/NDF: 205925.8/12

Right: 4811.769+/-0.913 $\chi^2$/NDF: 1476008.6/34

In: 4833.403+/-0.984 $\chi^2$/NDF:734584.4/21

Out: 4618.528+/-0.932 $\chi^2$/NDF:944608.9/25

All: 4720.080+/-0.677 $\chi^2$/NDF: 1704330.1/47




Right In: 4653.137+/-1958.496 $\chi^2$/NDF: 15.5/15

Left Out: -3240.975+/-2028.373 $\chi^2$/NDF:5.0/6

Right Out: 3000.980+/-1882.821 $\chi^2$/NDF: 13.9/18

Left In: 2210.466+/-2049.985 $\chi^2$/NDF:3.3/5

Left: -544.141+/-1441.856 $\chi^2$/NDF: 12.0/12

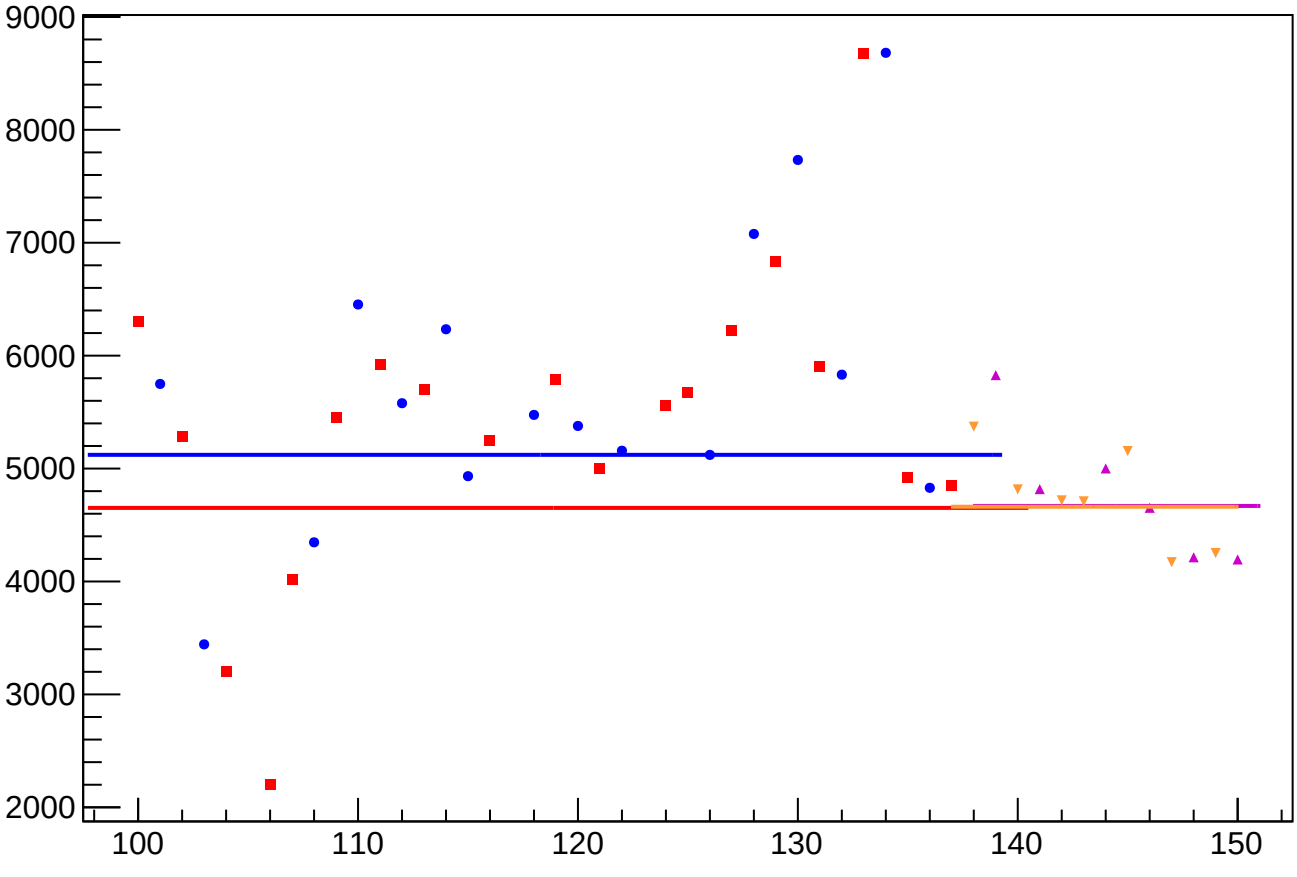
Right: 3794.523+/-1357.320 $\chi^2$/NDF: 29.8/34

In: 3487.523+/-1416.105 $\chi^2$/NDF:19.6/21

Out: 111.971+/-1379.946 $\chi^2$/NDF:24.0/25

All: 1756.101+/-988.305 $\chi^2$/NDF: 46.5/47

# asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 5121.644+/-1.385 $\chi^2$/NDF: 720370.1/15

Left Out: 4661.993+/-1.434 $\chi^2$/NDF:81959.6/6

Right Out: 4651.727+/-1.280 $\chi^2$/NDF: 1344868.0/18

Left In: 4668.978+/-1.450 $\chi^2$/NDF:118724.6/5

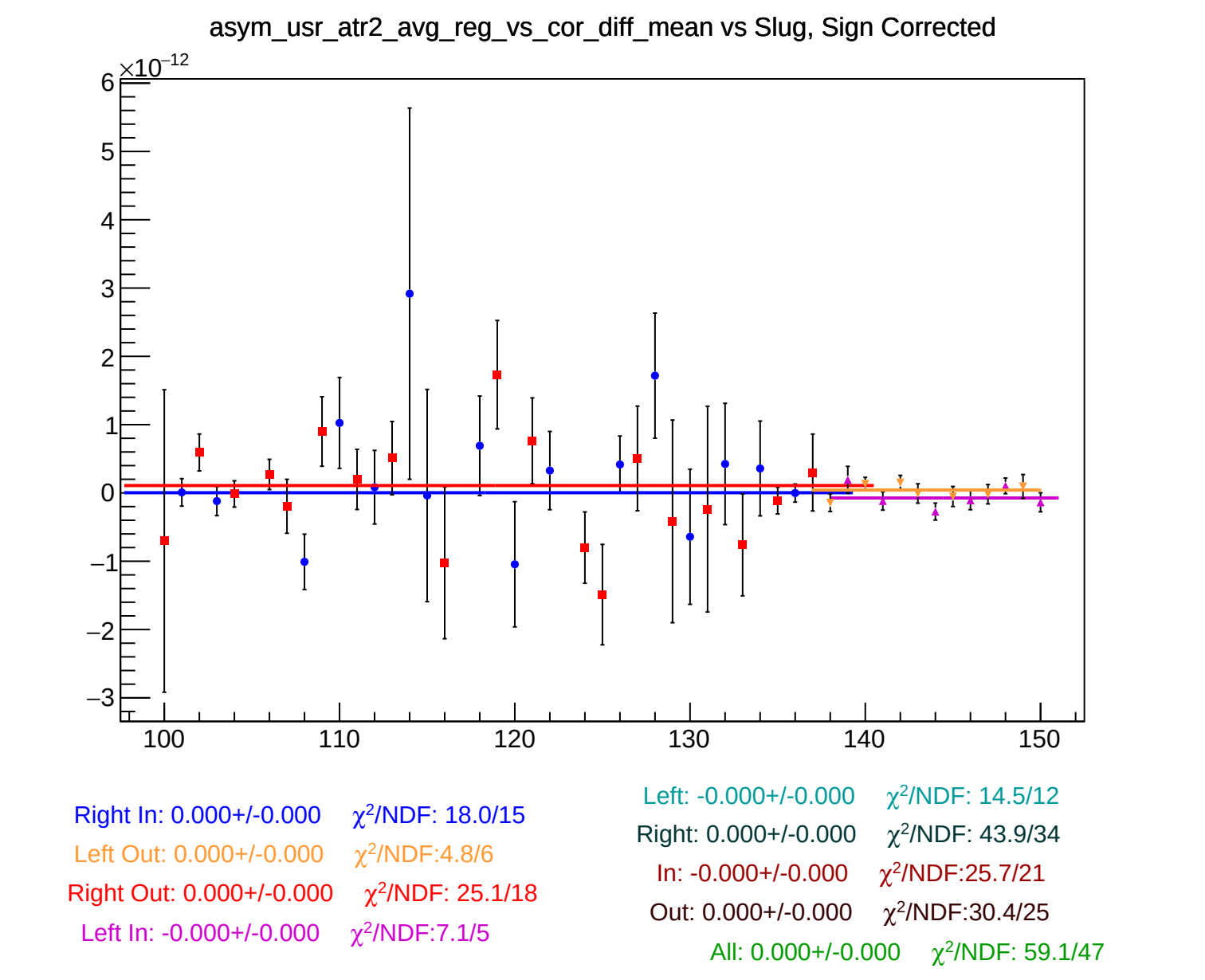
Left: 4665.448+/-1.020 $\chi^2$/NDF: 200696.0/12

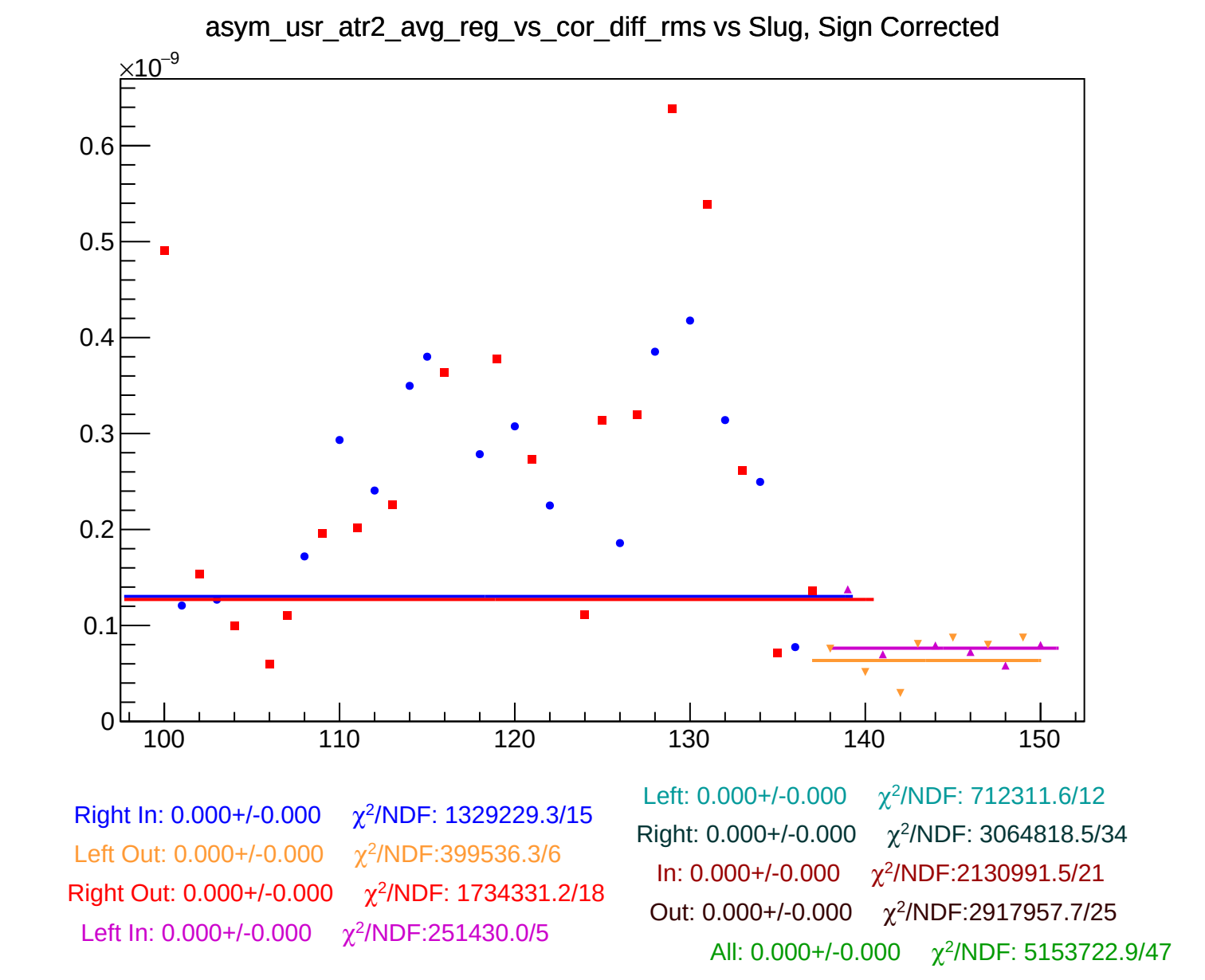
Right: 4868.287+/-0.940 $\chi^2$/NDF: 2127316.1/34

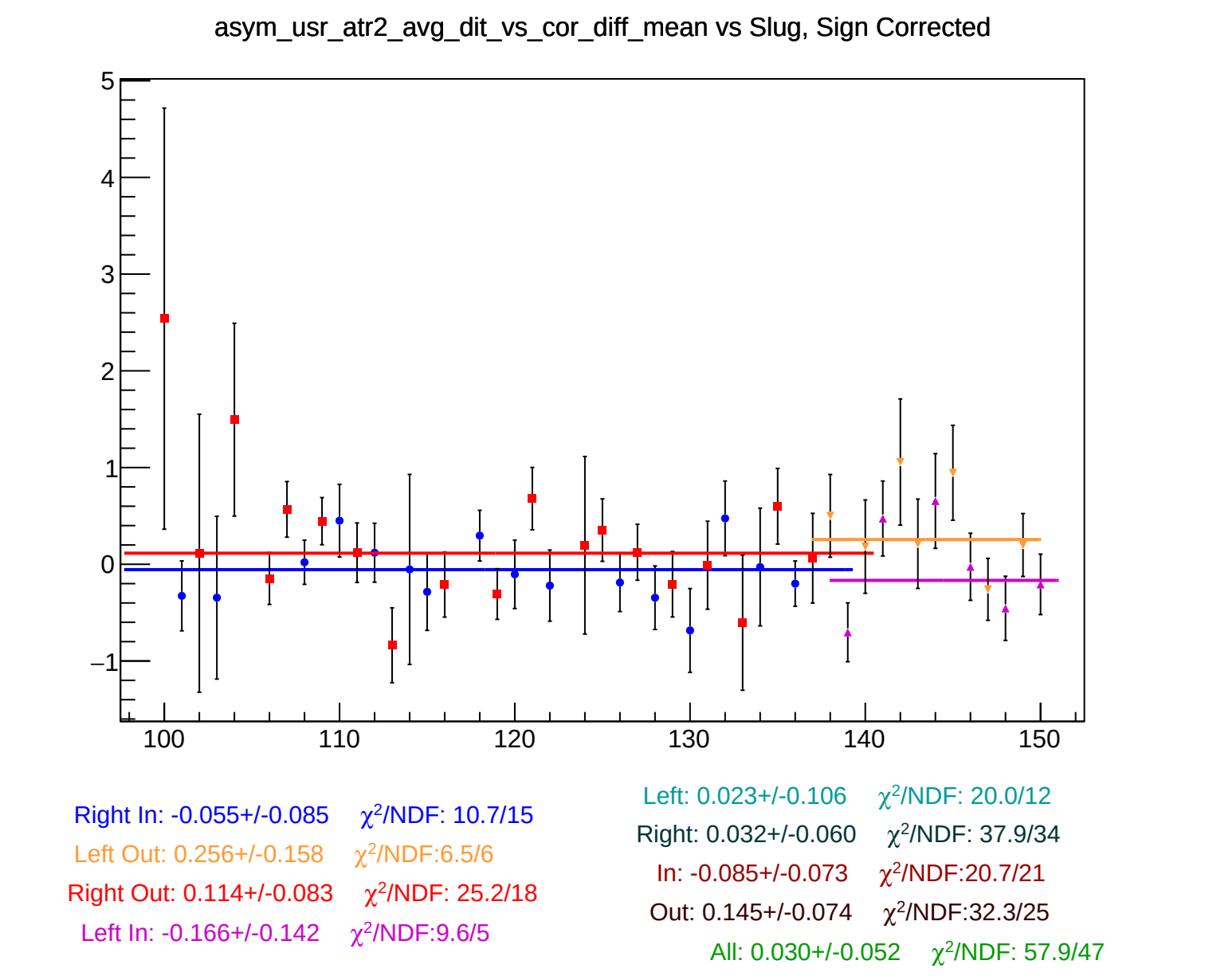
In: 4905.637+/-1.001 $\chi^2$/NDF:890078.2/21

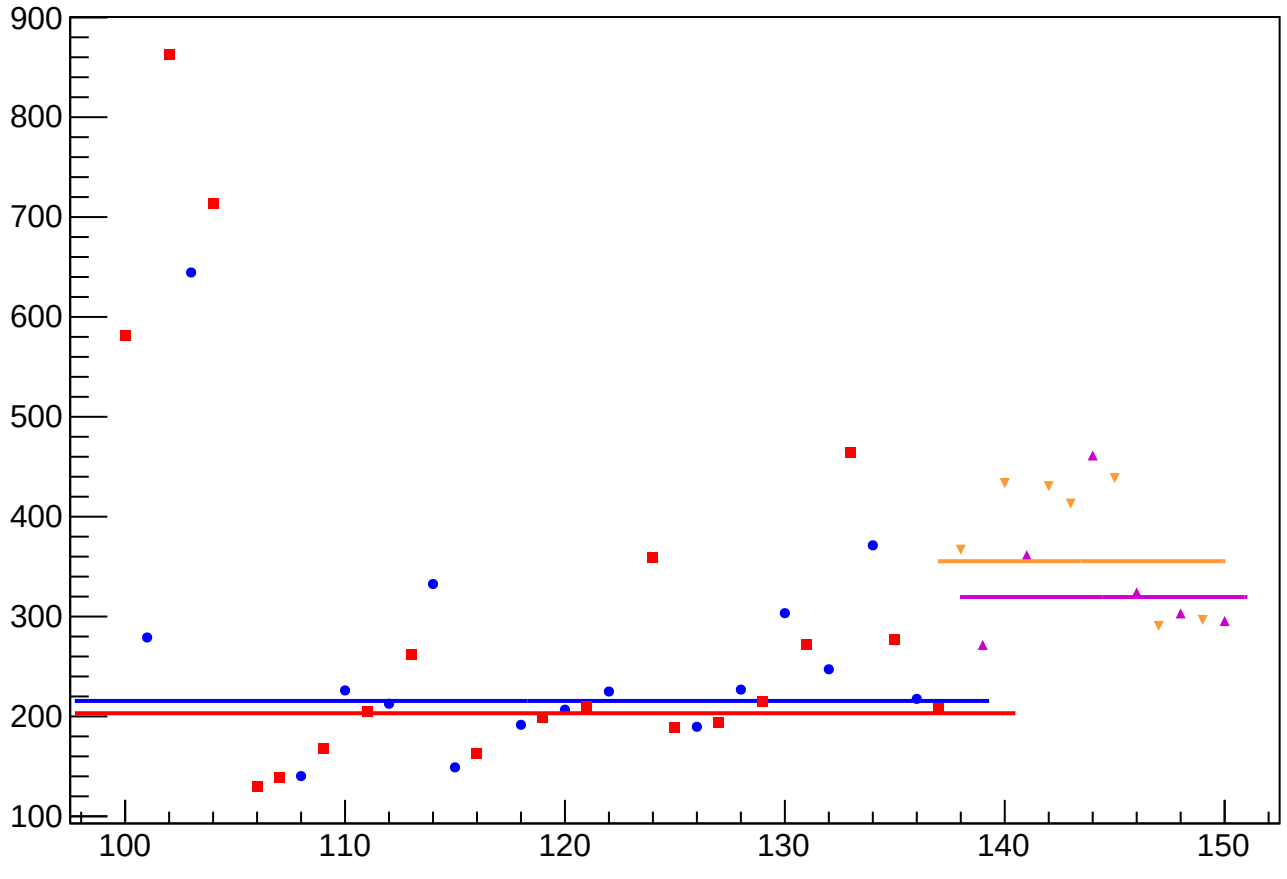
Out: 4656.280+/-0.955 $\chi^2$/NDF:1426856.1/25

All: 4775.075+/-0.691 $\chi^2$/NDF: 2349404.0/47


asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
5
4
3
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 18.0/15
Left Out: 0.000+/-0.000 χ²/NDF:4.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 25.1/18
Left In: -0.000+/-0.000 χ²/NDF:7.1/5
Left: -0.000+/-0.000 χ²/NDF: 14.5/12
Right: 0.000+/-0.000 χ²/NDF: 43.9/34
In: -0.000+/-0.000 χ²/NDF:25.7/21
Out: 0.000+/-0.000 χ²/NDF:30.4/25
All: 0.000+/-0.000 χ²/NDF: 59.1/47


asym_usr_atr2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1329229.3/15
Left Out: 0.000+/-0.000 χ²/NDF:399536.3/6
Right Out: 0.000+/-0.000 χ²/NDF: 1734331.2/18
Left In: 0.000+/-0.000 χ²/NDF:251430.0/5
Left: 0.000+/-0.000 χ²/NDF: 712311.6/12
Right: 0.000+/-0.000 χ²/NDF: 3064818.5/34
In: 0.000+/-0.000 χ²/NDF:2130991.5/21
Out: 0.000+/-0.000 χ²/NDF:2917957.7/25
All: 0.000+/-0.000 χ²/NDF: 5153722.9/47


asym_usr_atr2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
110
120
130
140
150
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.256+/-0.158 χ²/NDF:6.5/6
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.166+/-0.142 χ²/NDF:9.6/5
Left: 0.023+/-0.106 χ²/NDF: 20.0/12
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.085+/-0.073 χ²/NDF:20.7/21
Out: 0.145+/-0.074 χ²/NDF:32.3/25
All: 0.030+/-0.052 χ²/NDF: 57.9/47




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 355.440+/-0.112 $\chi^2$/NDF:316590.6/6

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 319.519+/-0.101 $\chi^2$/NDF:257791.1/5

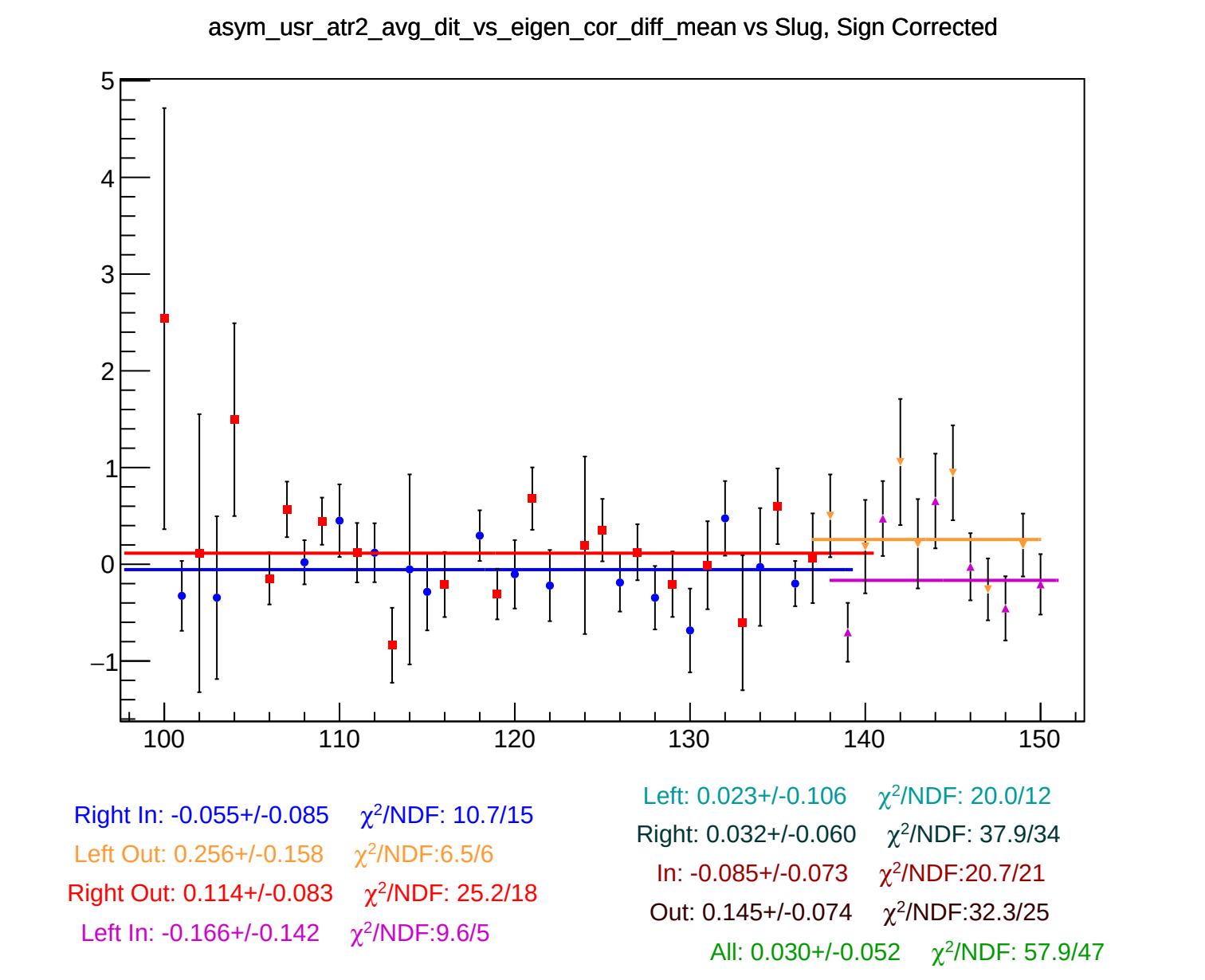
Left: 335.654+/-0.075 $\chi^2$/NDF: 631477.5/12

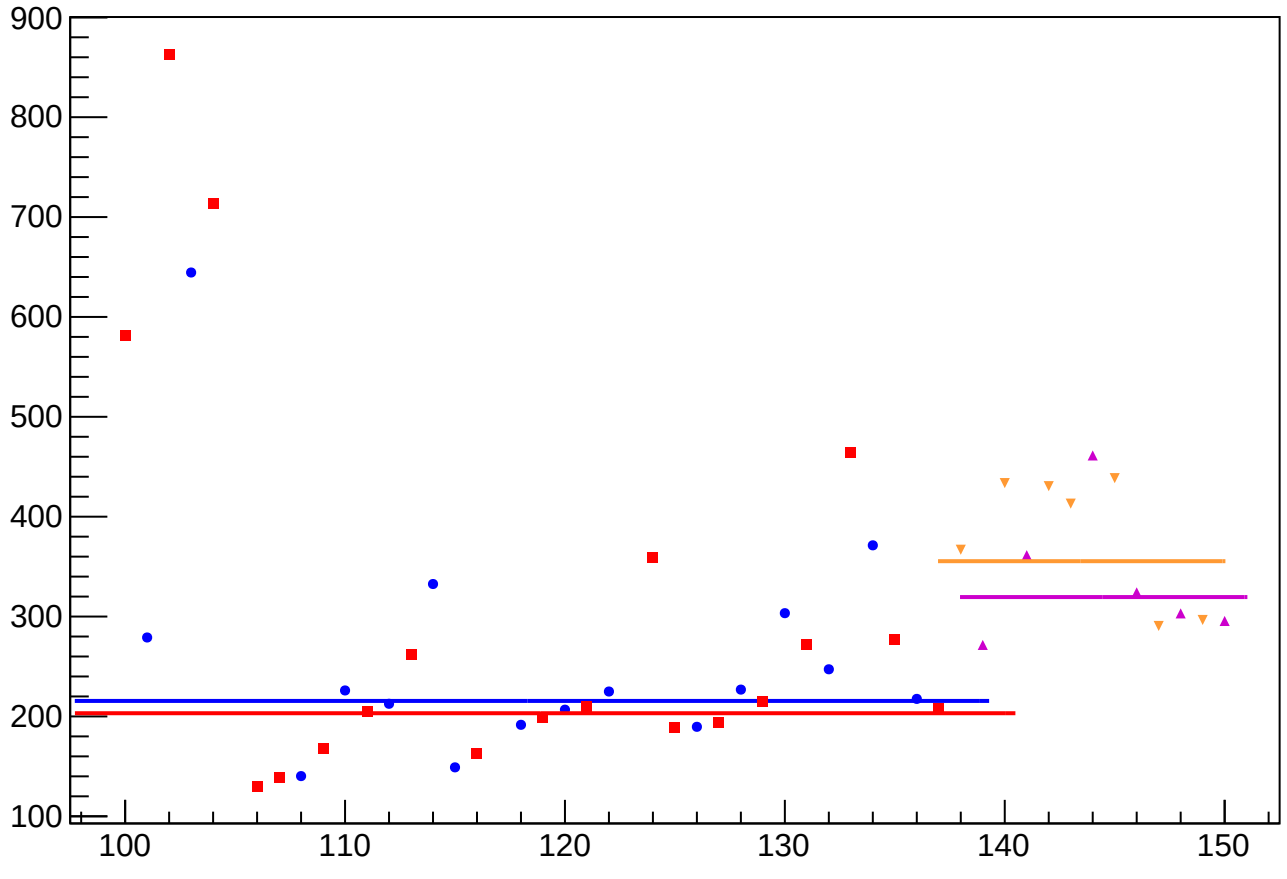
Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 243.038+/-0.052 $\chi^2$/NDF:2190073.5/21

Out: 236.336+/-0.052 $\chi^2$/NDF:3608725.0/25

All: 239.701+/-0.037 $\chi^2$/NDF: 5807123.3/47


asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
110
120
130
140
150
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.256+/-0.158 χ²/NDF:6.5/6
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.166+/-0.142 χ²/NDF:9.6/5
Left: 0.023+/-0.106 χ²/NDF: 20.0/12
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.085+/-0.073 χ²/NDF:20.7/21
Out: 0.145+/-0.074 χ²/NDF:32.3/25
All: 0.030+/-0.052 χ²/NDF: 57.9/47




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 355.440+/-0.112 $\chi^2$/NDF:316590.6/6

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 319.519+/-0.101 $\chi^2$/NDF:257791.1/5

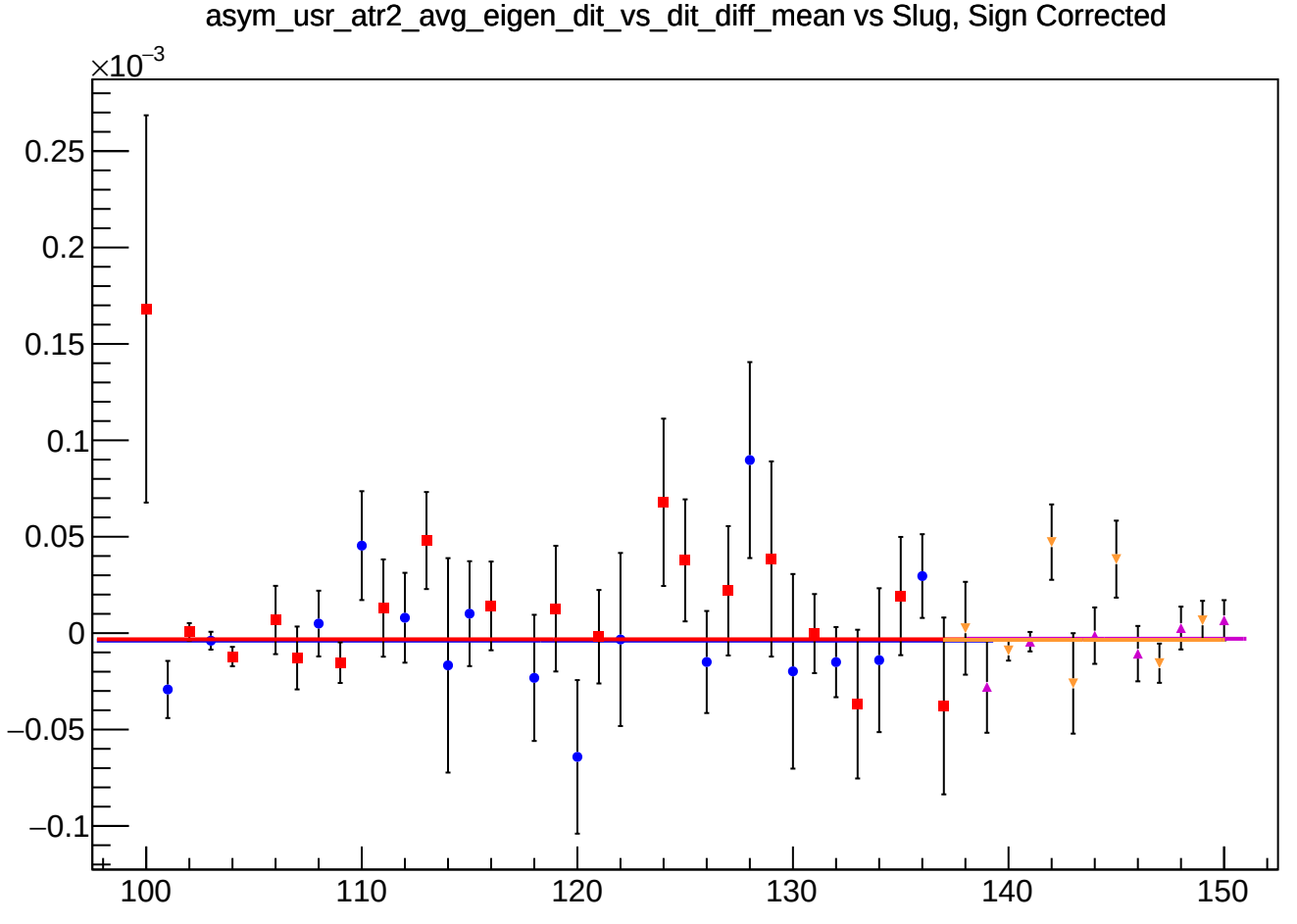
Left: 335.654+/-0.075 $\chi^2$/NDF: 631477.5/12

Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 243.038+/-0.052 $\chi^2$/NDF:2190073.5/21

Out: 236.336+/-0.052 $\chi^2$/NDF:3608725.0/25

All: 239.701+/-0.037 $\chi^2$/NDF: 5807123.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.6/5

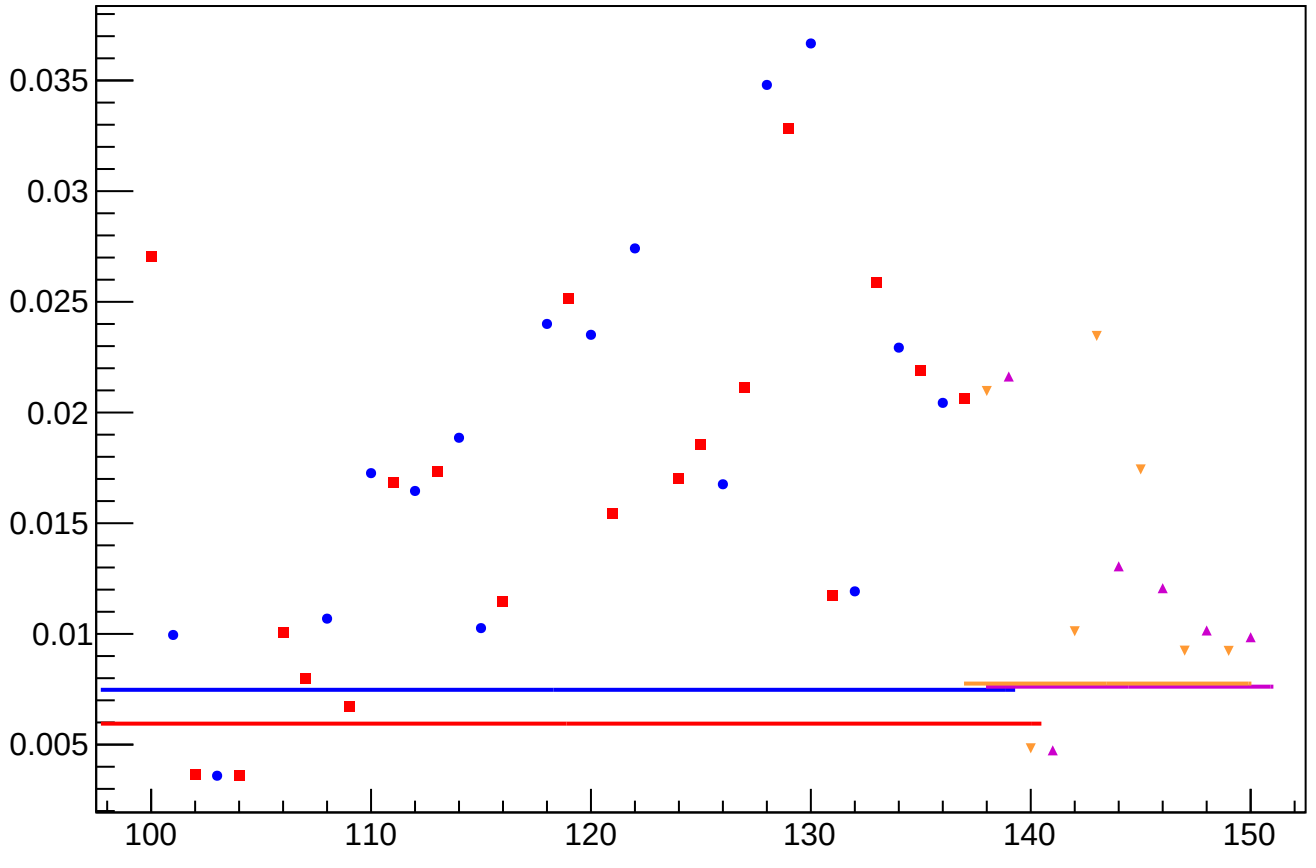
Left: -0.000+/-0.000 $\chi^2$/NDF: 18.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 37.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:37.1/25

All: -0.000+/-0.000 $\chi^2$/NDF: 55.7/47




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6076199.5/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:2529189.1/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 5934015.2/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:2006802.9/5

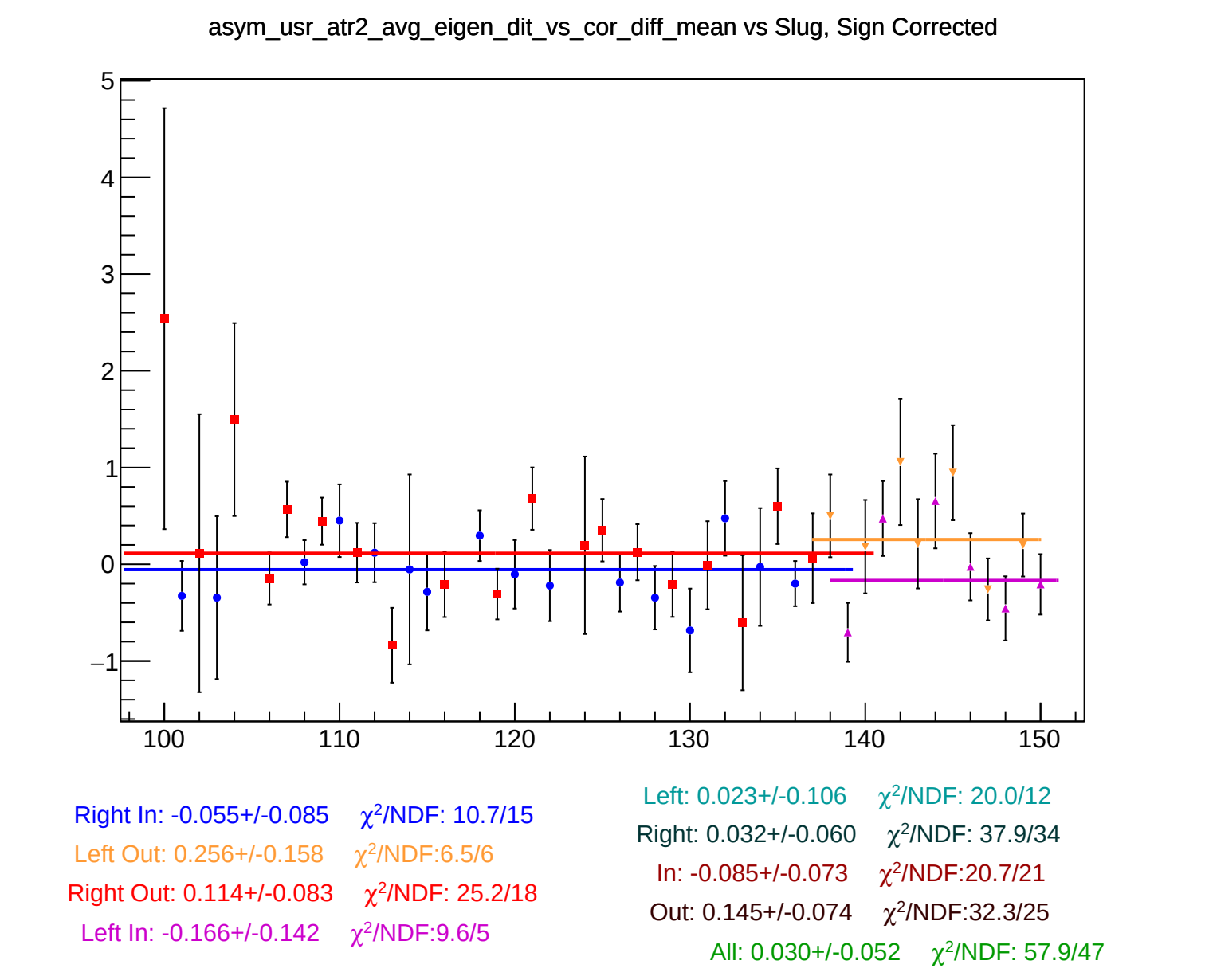
Left: 0.008+/-0.000 $\chi^2$/NDF: 4537267.5/12

Right: 0.007+/-0.000 $\chi^2$/NDF: 12215563.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:8084390.8/21

Out: 0.007+/-0.000 $\chi^2$/NDF:8735319.9/25

All: 0.007+/-0.000 $\chi^2$/NDF: 16966761.7/47


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
5
4
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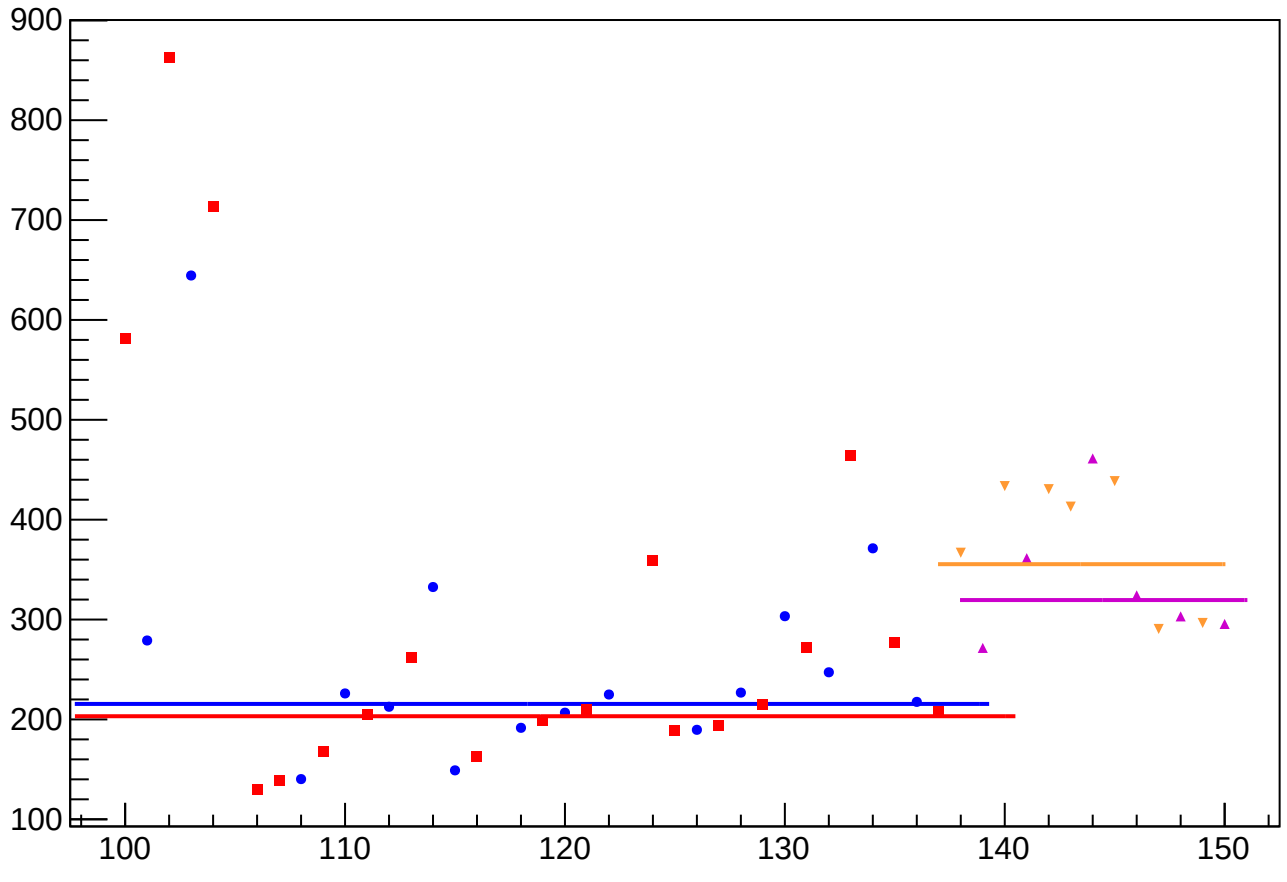
2
1
0
−1
100
110
120
130
140
150
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.256+/-0.158 χ²/NDF:6.5/6
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.166+/-0.142 χ²/NDF:9.6/5
Left: 0.023+/-0.106 χ²/NDF: 20.0/12
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.085+/-0.073 χ²/NDF:20.7/21
Out: 0.145+/-0.074 χ²/NDF:32.3/25
All: 0.030+/-0.052 χ²/NDF: 57.9/47




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 355.446+/-0.112 $\chi^2$/NDF:316579.6/6

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 319.524+/-0.101 $\chi^2$/NDF:257779.1/5

Left: 335.660+/-0.075 $\chi^2$/NDF: 631453.2/12

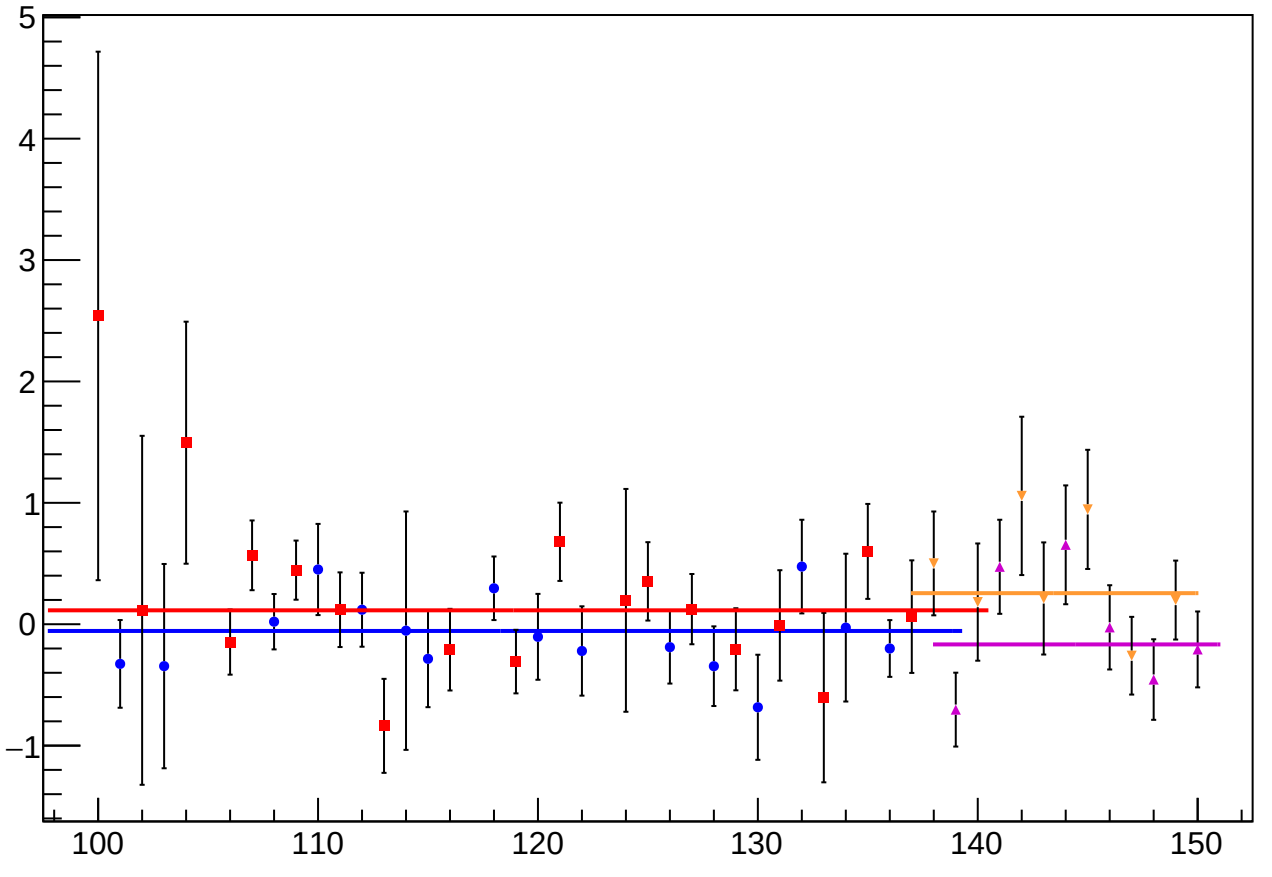
Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 243.037+/-0.052 $\chi^2$/NDF:2190115.0/21

Out: 236.335+/-0.052 $\chi^2$/NDF:3608797.7/25

All: 239.700+/-0.037 $\chi^2$/NDF: 5807239.2/47

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.085 $\chi^2$/NDF: 10.7/15

Left Out: 0.256+/-0.158 $\chi^2$/NDF:6.5/6

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.166+/-0.142 $\chi^2$/NDF:9.6/5

Left: 0.023+/-0.106 $\chi^2$/NDF: 20.0/12

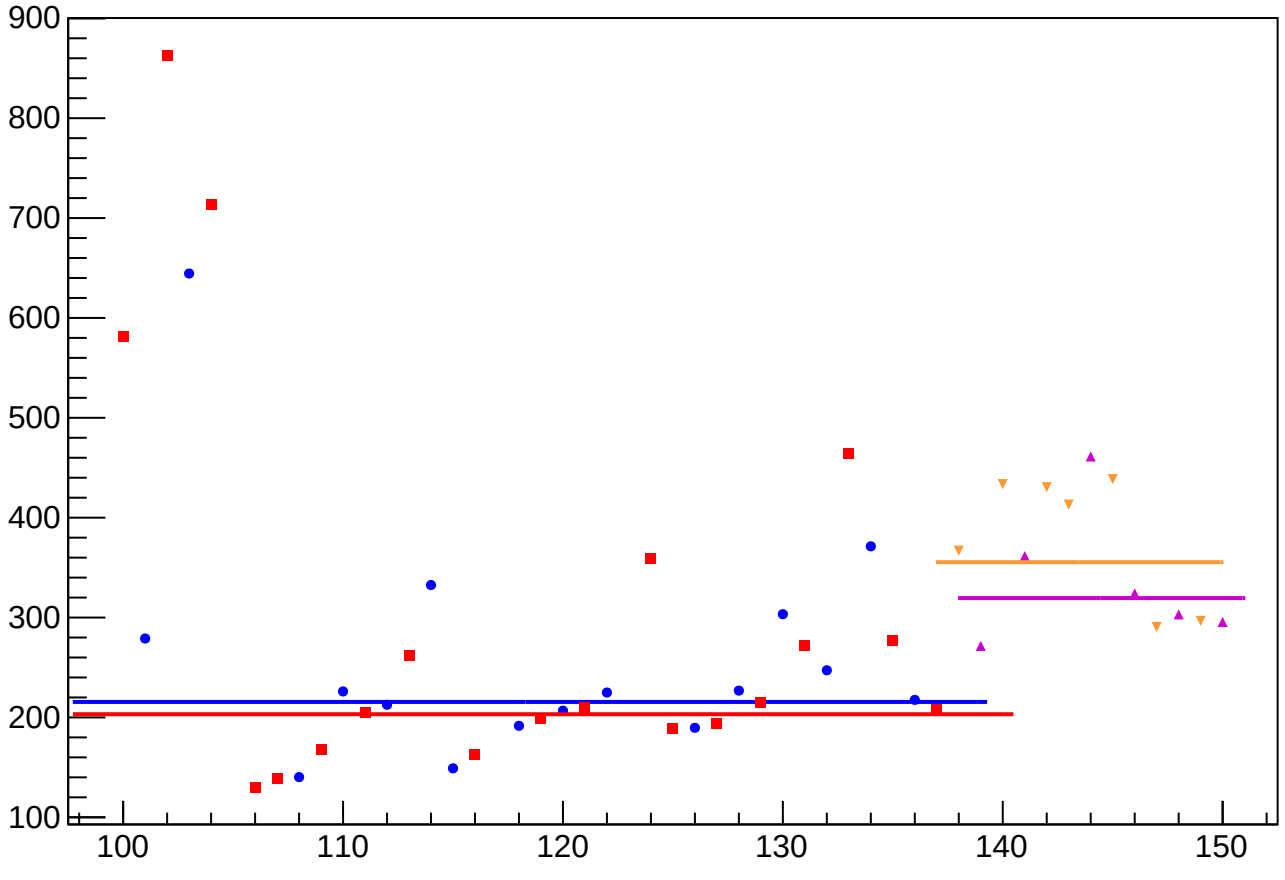
Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.085+/-0.073 $\chi^2$/NDF:20.7/21

Out: 0.145+/-0.074 $\chi^2$/NDF:32.3/25

All: 0.030+/-0.052 $\chi^2$/NDF: 57.9/47

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 355.446+/-0.112 $\chi^2$/NDF:316579.6/6

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 319.524+/-0.101 $\chi^2$/NDF:257779.1/5

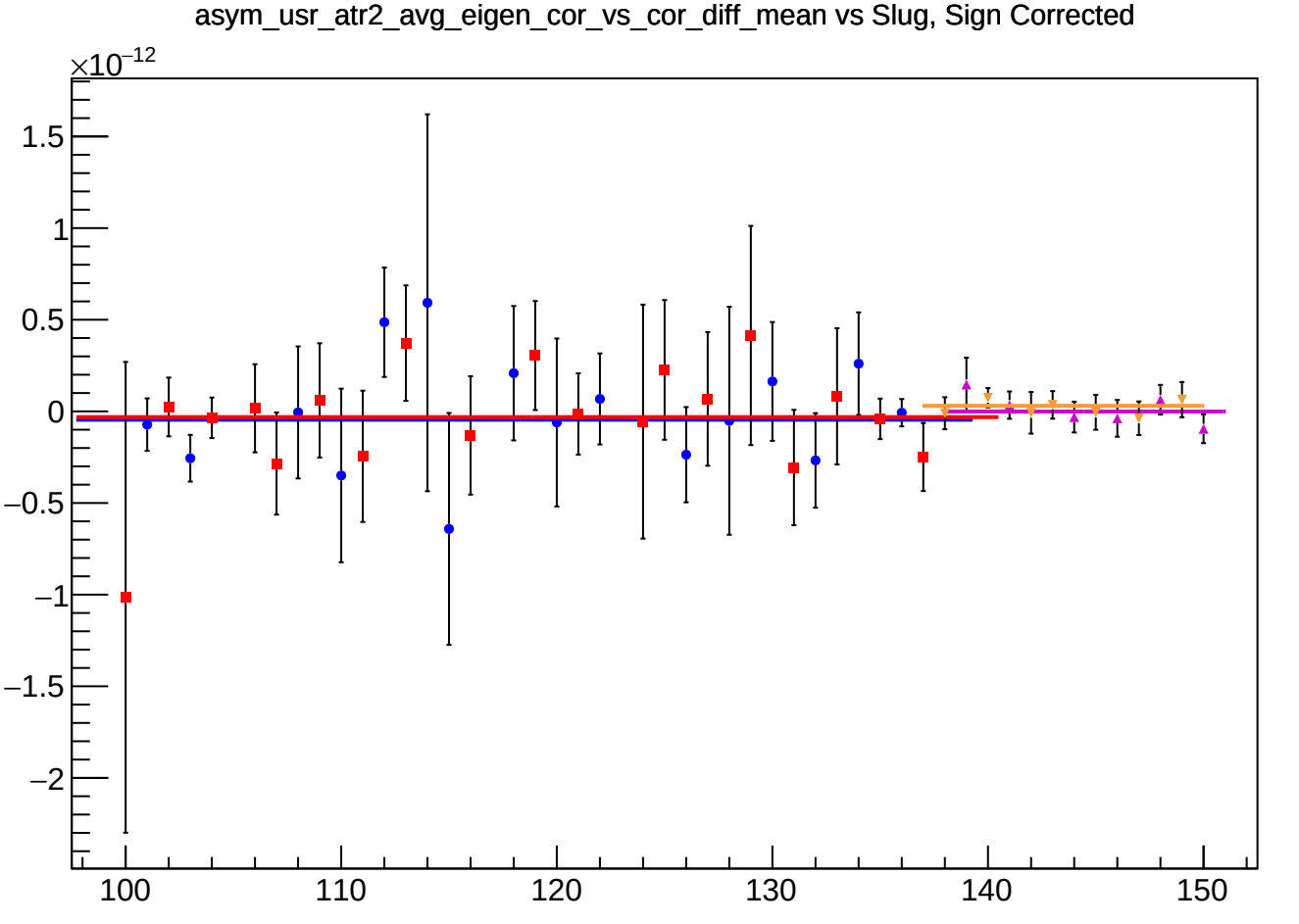
Left: 335.660+/-0.075 $\chi^2$/NDF: 631453.2/12

Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 243.037+/-0.052 $\chi^2$/NDF:2190115.0/21

Out: 236.335+/-0.052 $\chi^2$/NDF:3608797.7/25

All: 239.700+/-0.037 $\chi^2$/NDF: 5807239.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 8.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.6/5

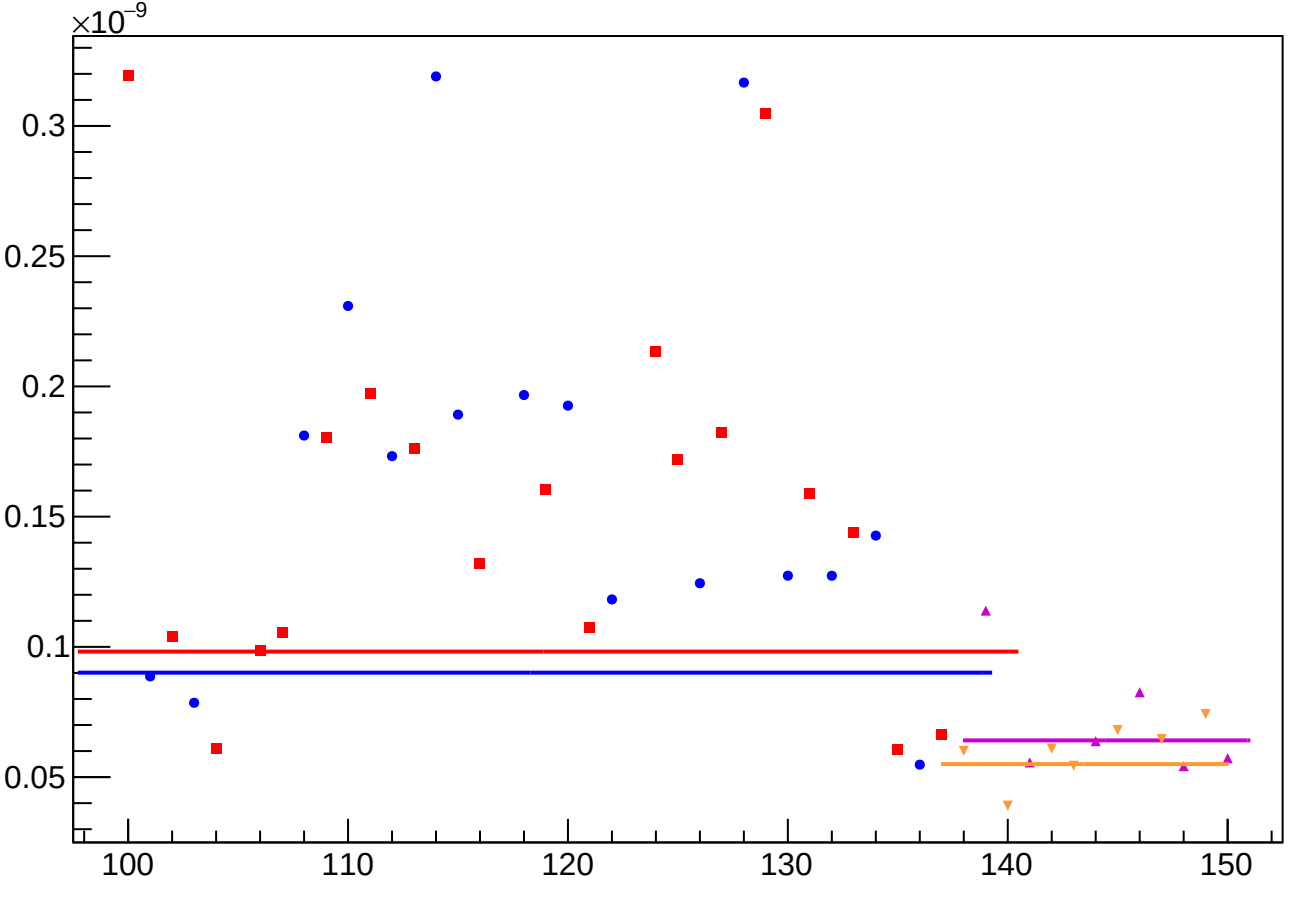
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 19.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:11.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 27.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1808066.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:332781.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1694726.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:372464.3/5

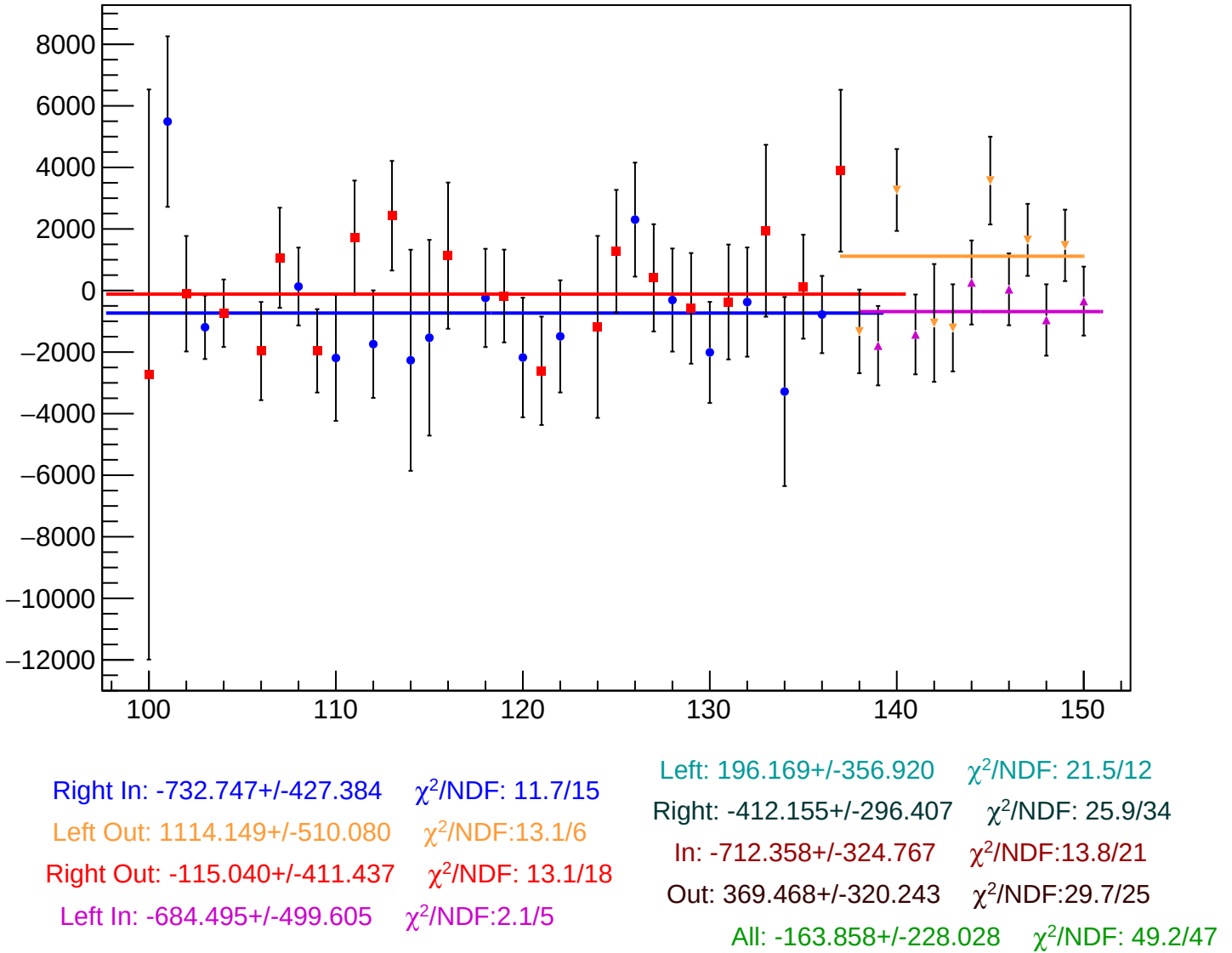
Left: 0.000+/-0.000 $\chi^2$/NDF: 780321.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3527917.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2538842.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3052674.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5653398.1/47


reg_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
8000
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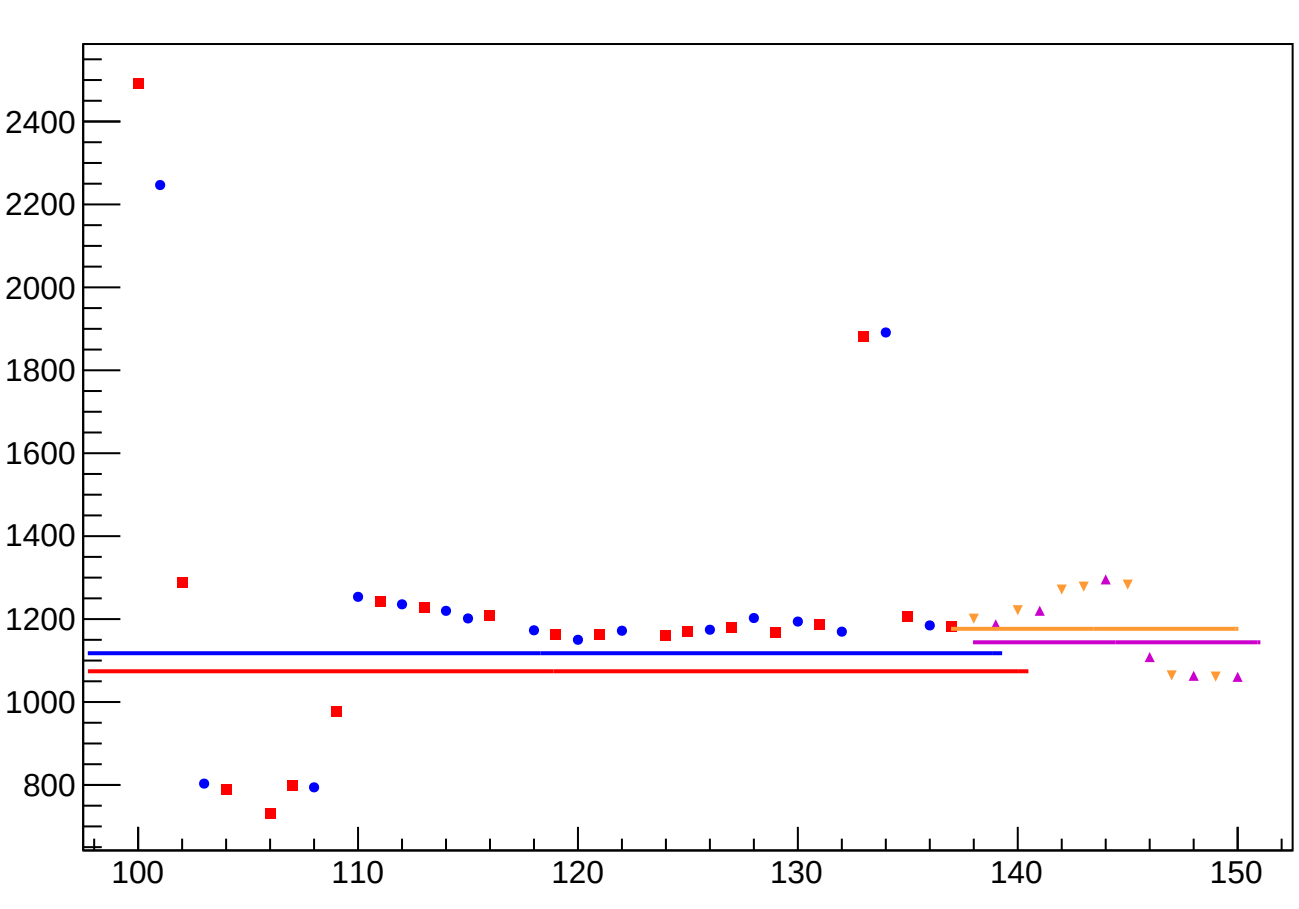
Right In: -732.747+/-427.384 χ²/NDF: 11.7/15
Left Out: 1114.149+/-510.080 χ²/NDF:13.1/6
Right Out: -115.040+/-411.437 χ²/NDF: 13.1/18
Left In: -684.495+/-499.605 χ²/NDF:2.1/5
Left: 196.169+/-356.920 χ²/NDF: 21.5/12
Right: -412.155+/-296.407 χ²/NDF: 25.9/34
In: -712.358+/-324.767 χ²/NDF:13.8/21
Out: 369.468+/-320.243 χ²/NDF:29.7/25
All: -163.858+/-228.028 χ²/NDF: 49.2/47




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819835.1/15

Left Out: 1176.548+/-0.361 $\chi^2$/NDF:67445.0/6

Right Out: 1074.148+/-0.289 $\chi^2$/NDF: 649508.4/18

Left In: 1144.034+/-0.353 $\chi^2$/NDF:56466.8/5

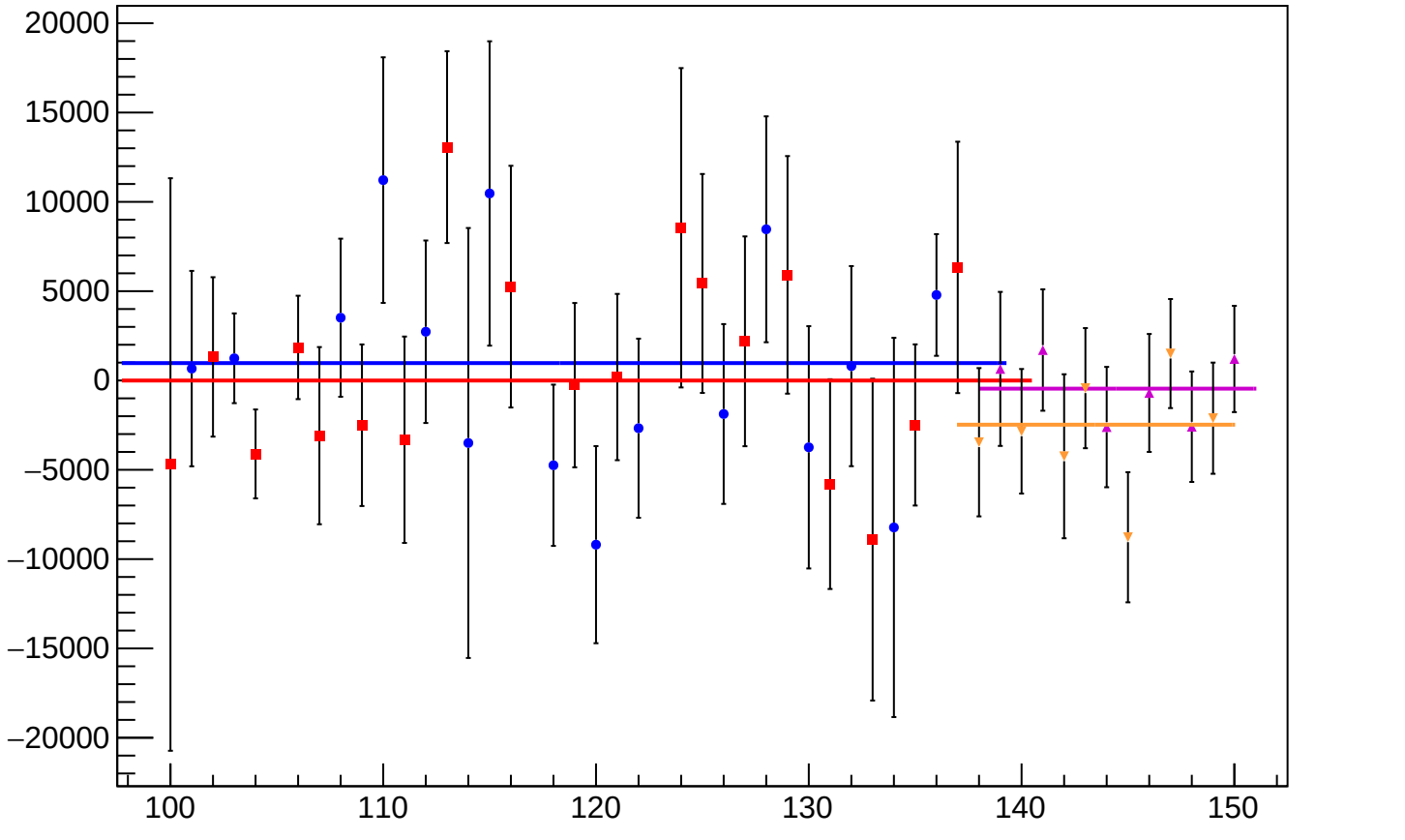
Left: 1159.954+/-0.252 $\chi^2$/NDF: 128059.2/12

Right: 1094.908+/-0.209 $\chi^2$/NDF: 1480200.6/34

In: 1128.818+/-0.230 $\chi^2$/NDF:879514.6/21

Out: 1114.105+/-0.225 $\chi^2$/NDF:766105.0/25

All: 1121.321+/-0.161 $\chi^2$/NDF: 1647711.2/47




Right In: 973.755+/-1232.754 $\chi^2$/NDF: 13.8/15

Left Out: -2475.384+/-1333.732 $\chi^2$/NDF:5.3/6

Right Out: -2.885+/-1113.897 $\chi^2$/NDF: 16.6/18

Left In: -457.315+/-1363.515 $\chi^2$/NDF:1.7/5

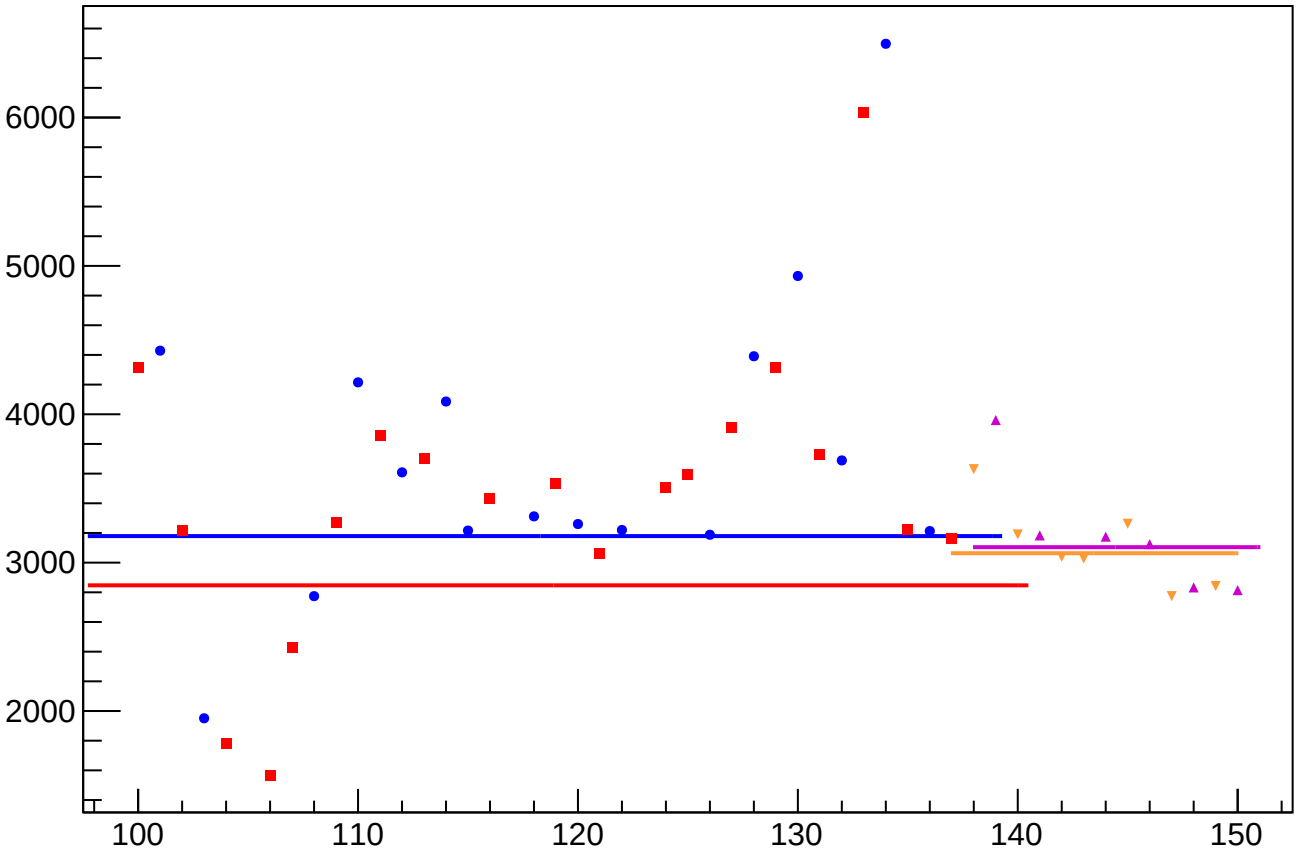
Left: -1488.630+/-953.446 $\chi^2$/NDF: 8.1/12

Right: 436.095+/-826.478 $\chi^2$/NDF: 30.7/34

In: 330.113+/-914.432 $\chi^2$/NDF:16.1/21

Out: -1018.843+/-854.945 $\chi^2$/NDF:23.9/25

All: -389.666+/-624.509 $\chi^2$/NDF: 41.1/47




Right In: 3178.870+/-0.872 $\chi^2$/NDF: 1091676.8/15

Left Out: 3063.481+/-0.943 $\chi^2$/NDF:74166.2/6

Right Out: 2847.016+/-0.788 $\chi^2$/NDF: 1511160.9/18

Left In: 3104.296+/-0.964 $\chi^2$/NDF:115398.9/5

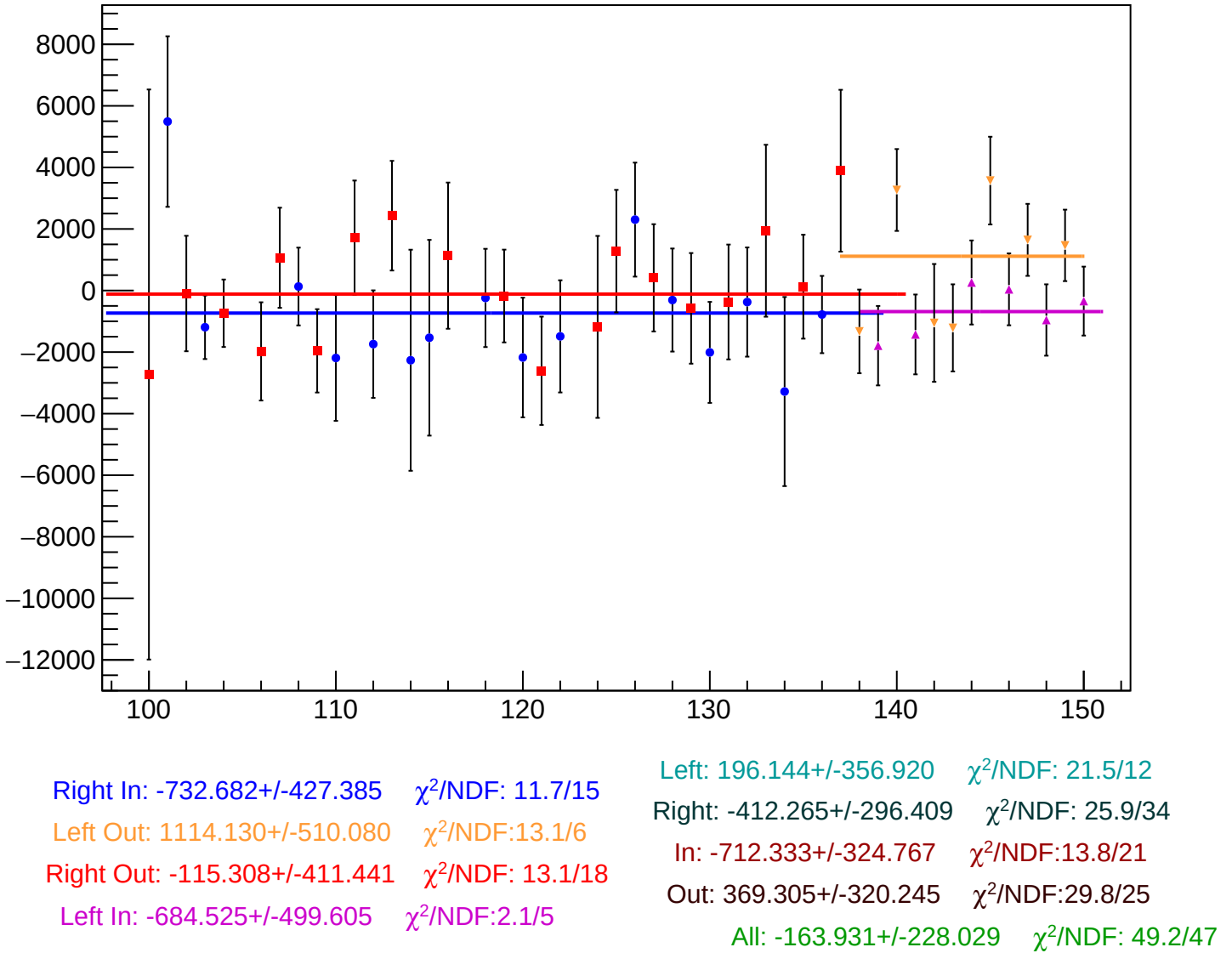
Left: 3083.437+/-0.674 $\chi^2$/NDF: 190481.0/12

Right: 2996.178+/-0.584 $\chi^2$/NDF: 2682627.1/34

In: 3145.329+/-0.647 $\chi^2$/NDF:1210367.6/21

Out: 2935.962+/-0.605 $\chi^2$/NDF:1616362.2/25

All: 3033.615+/-0.442 $\chi^2$/NDF: 2882672.9/47


cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
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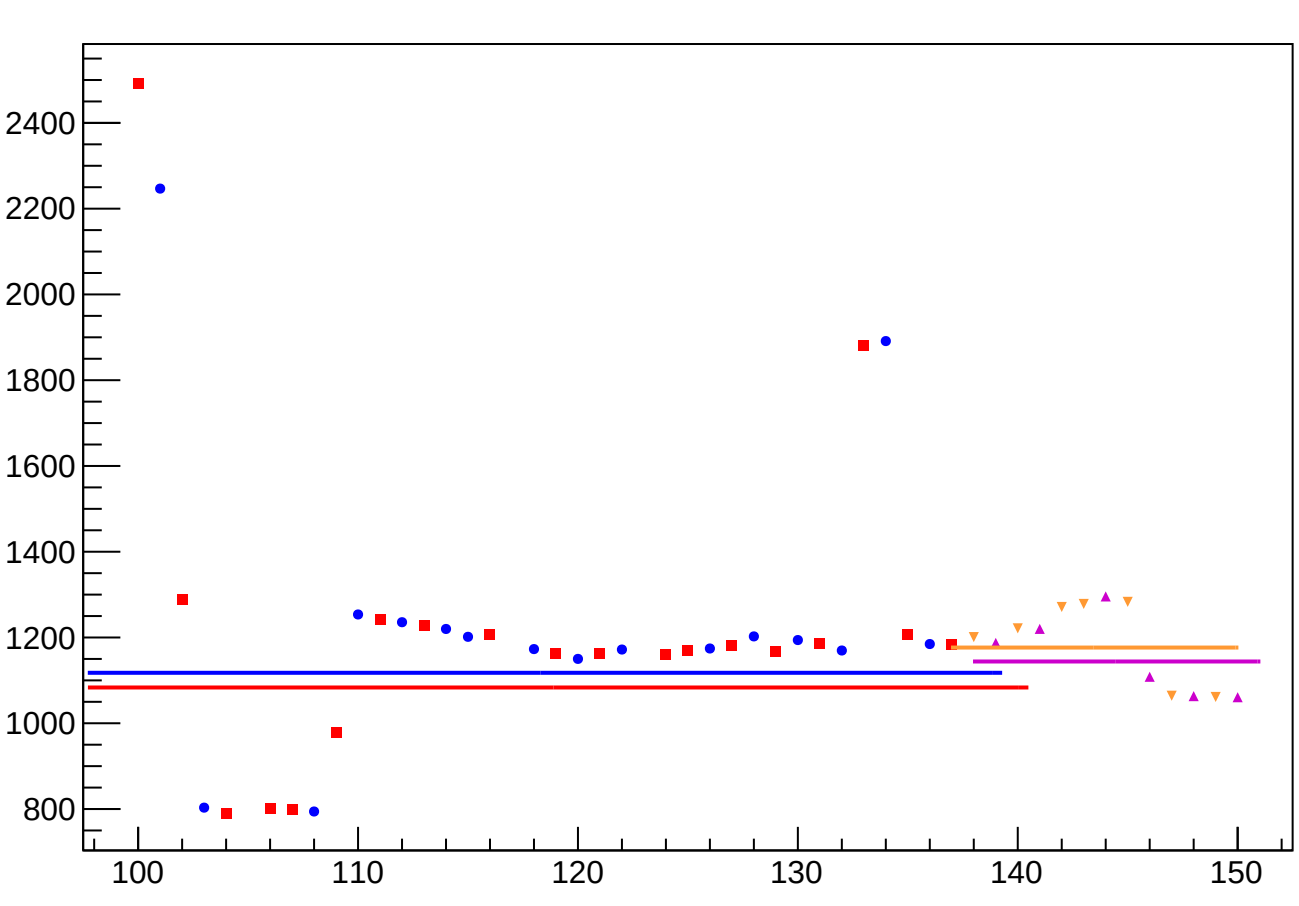
Right In: -732.682+/-427.385 χ²/NDF: 11.7/15
Left Out: 1114.130+/-510.080 χ²/NDF:13.1/6
Right Out: -115.308+/-411.441 χ²/NDF: 13.1/18
Left In: -684.525+/-499.605 χ²/NDF:2.1/5
Left: 196.144+/-356.920 χ²/NDF: 21.5/12
Right: -412.265+/-296.409 χ²/NDF: 25.9/34
In: -712.333+/-324.767 χ²/NDF:13.8/21
Out: 369.305+/-320.245 χ²/NDF:29.8/25
All: -163.931+/-228.029 χ²/NDF: 49.2/47




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1176.548+/-0.361 $\chi^2$/NDF:67445.0/6

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1144.034+/-0.353 $\chi^2$/NDF:56466.8/5

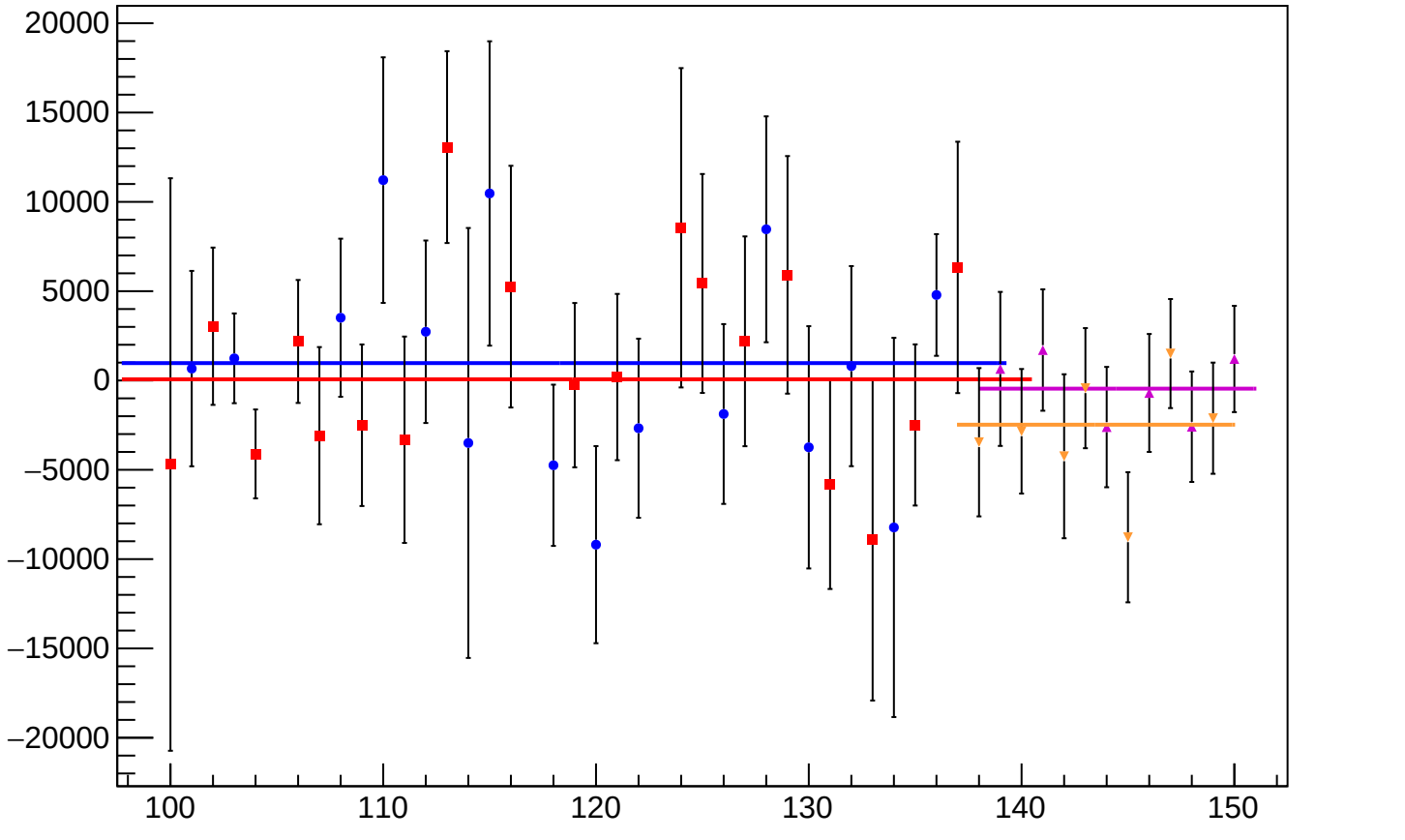
Left: 1159.954+/-0.252 $\chi^2$/NDF: 128059.2/12

Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1128.819+/-0.230 $\chi^2$/NDF:879511.0/21

Out: 1120.043+/-0.226 $\chi^2$/NDF:702911.0/25

All: 1124.364+/-0.161 $\chi^2$/NDF: 1583163.1/47




Right In: 973.256+/-1232.803 $\chi^2$/NDF: 13.8/15

Left Out: -2475.379+/-1333.729 $\chi^2$/NDF:5.3/6

Right Out: 67.113+/-1137.892 $\chi^2$/NDF: 16.9/18

Left In: -457.346+/-1363.514 $\chi^2$/NDF:1.7/5

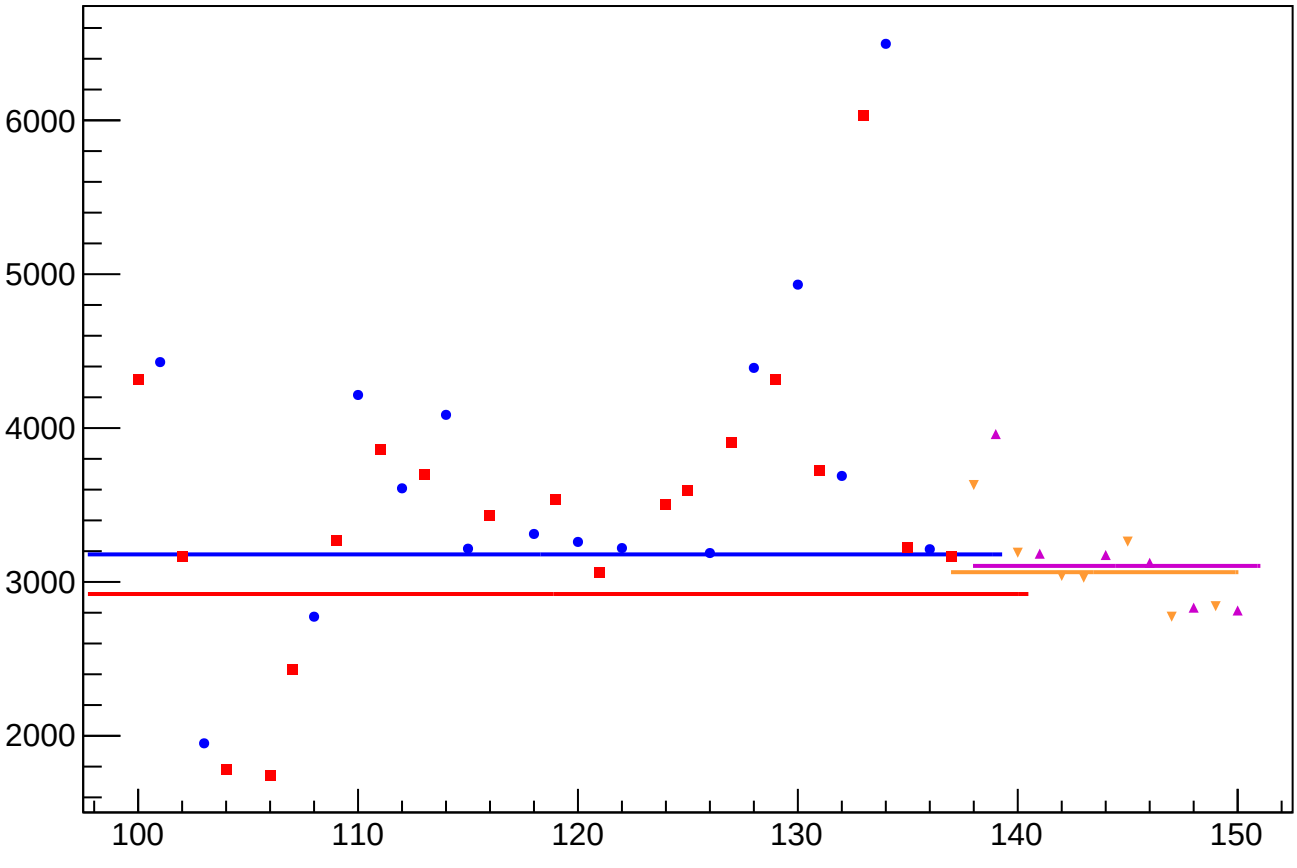
Left: -1488.645+/-953.445 $\chi^2$/NDF: 8.1/12

Right: 483.965+/-836.154 $\chi^2$/NDF: 31.0/34

In: 329.797+/-914.452 $\chi^2$/NDF:16.1/21

Out: -1003.938+/-865.651 $\chi^2$/NDF:24.3/25

All: -373.607+/-628.652 $\chi^2$/NDF: 41.5/47




Right In: 3179.054+/-0.872 $\chi^2$/NDF: 1091236.5/15

Left Out: 3063.473+/-0.943 $\chi^2$/NDF:74165.6/6

Right Out: 2921.641+/-0.805 $\chi^2$/NDF: 1312890.1/18

Left In: 3104.294+/-0.964 $\chi^2$/NDF:115398.7/5

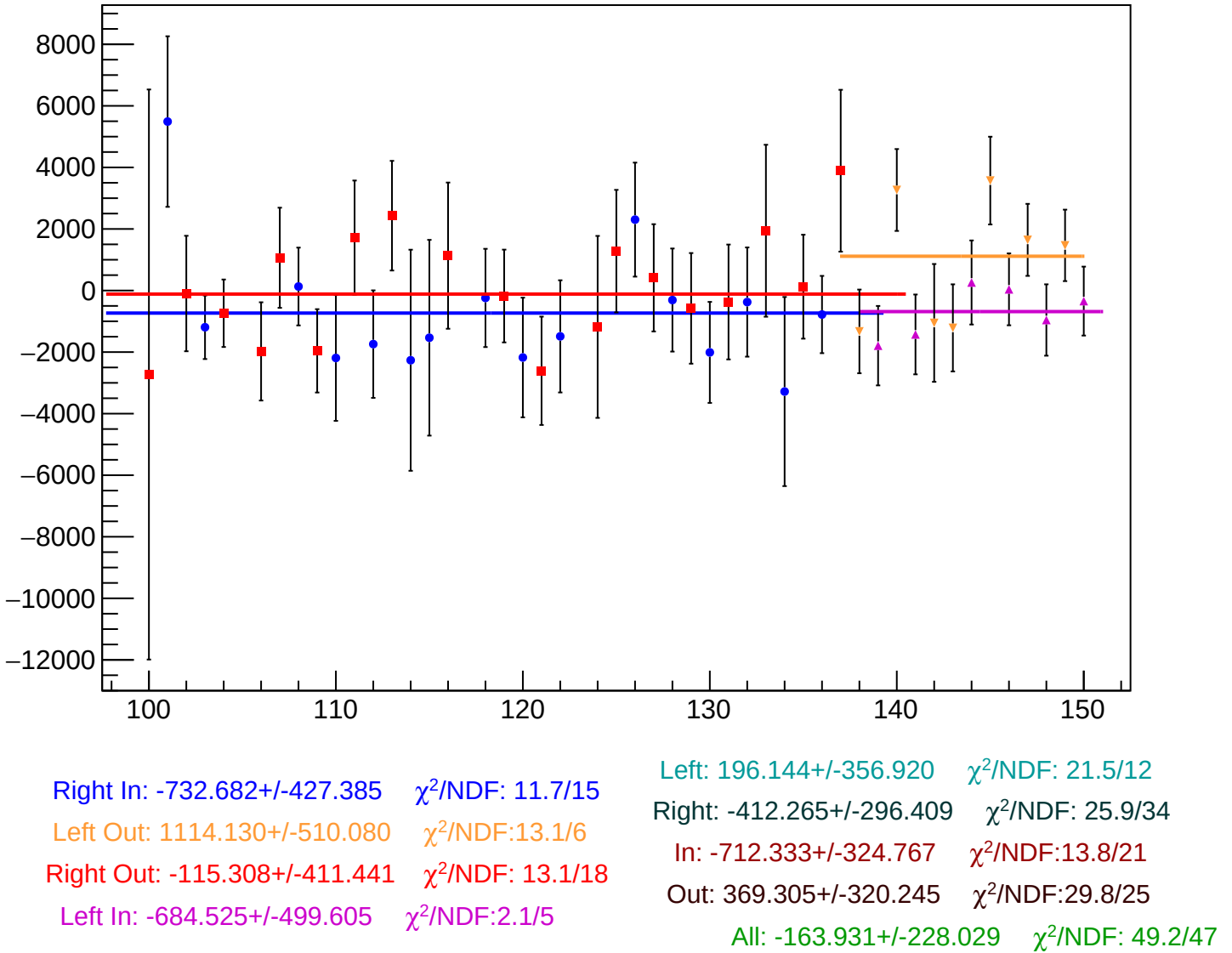
Left: 3083.433+/-0.674 $\chi^2$/NDF: 190480.4/12

Right: 3040.058+/-0.591 $\chi^2$/NDF: 2451210.8/34

In: 3145.428+/-0.647 $\chi^2$/NDF:1209943.4/21

Out: 2981.389+/-0.612 $\chi^2$/NDF:1400145.2/25

All: 3058.915+/-0.445 $\chi^2$/NDF: 2644030.8/47


eigen_cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
8000
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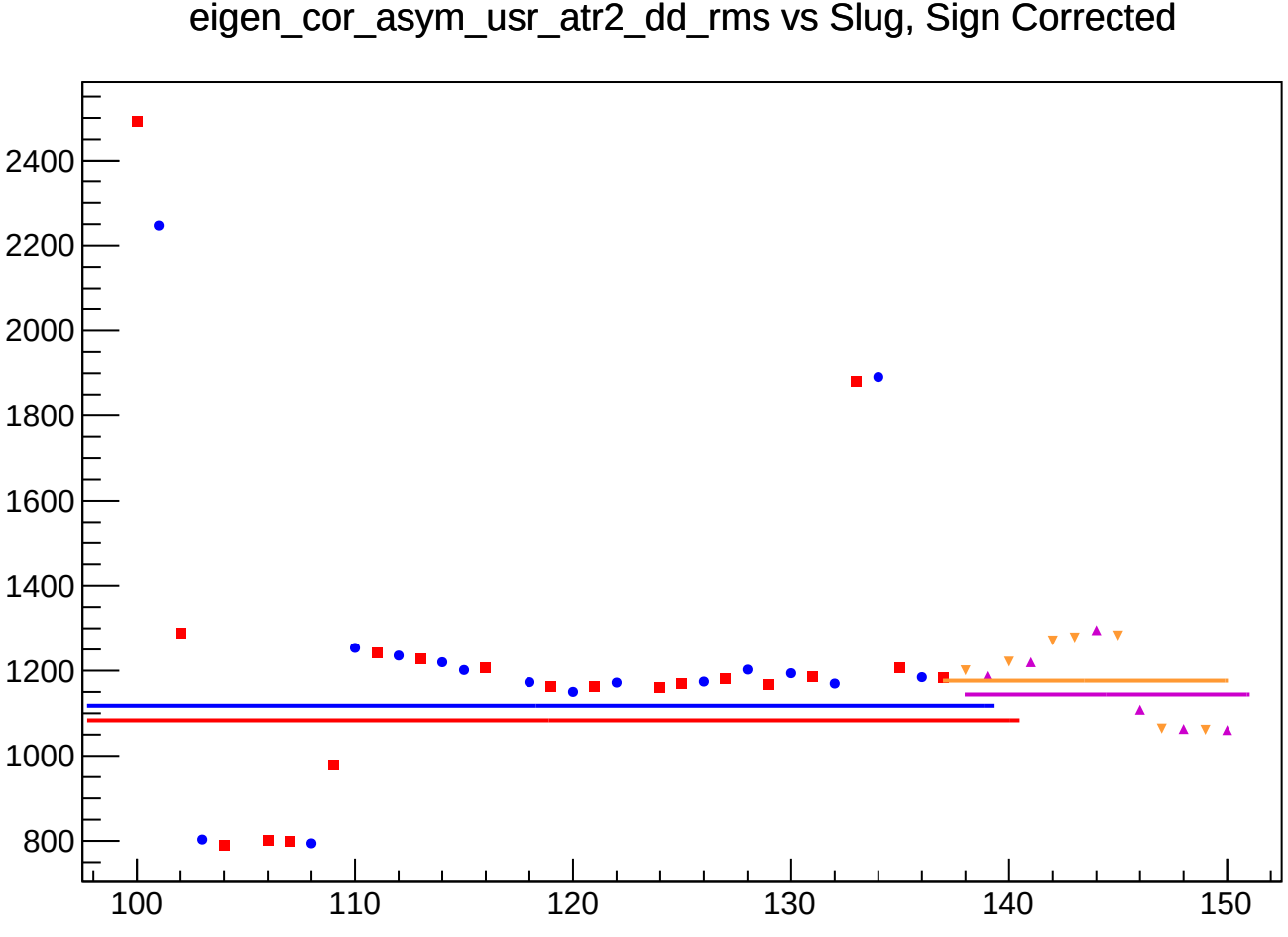
Right In: -732.682+/-427.385 χ²/NDF: 11.7/15
Left Out: 1114.130+/-510.080 χ²/NDF:13.1/6
Right Out: -115.308+/-411.441 χ²/NDF: 13.1/18
Left In: -684.525+/-499.605 χ²/NDF:2.1/5
Left: 196.144+/-356.920 χ²/NDF: 21.5/12
Right: -412.265+/-296.409 χ²/NDF: 25.9/34
In: -712.333+/-324.767 χ²/NDF:13.8/21
Out: 369.305+/-320.245 χ²/NDF:29.8/25
All: -163.931+/-228.029 χ²/NDF: 49.2/47




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1176.548+/-0.361 $\chi^2$/NDF:67445.0/6

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1144.034+/-0.353 $\chi^2$/NDF:56466.8/5

Left: 1159.954+/-0.252 $\chi^2$/NDF: 128059.2/12

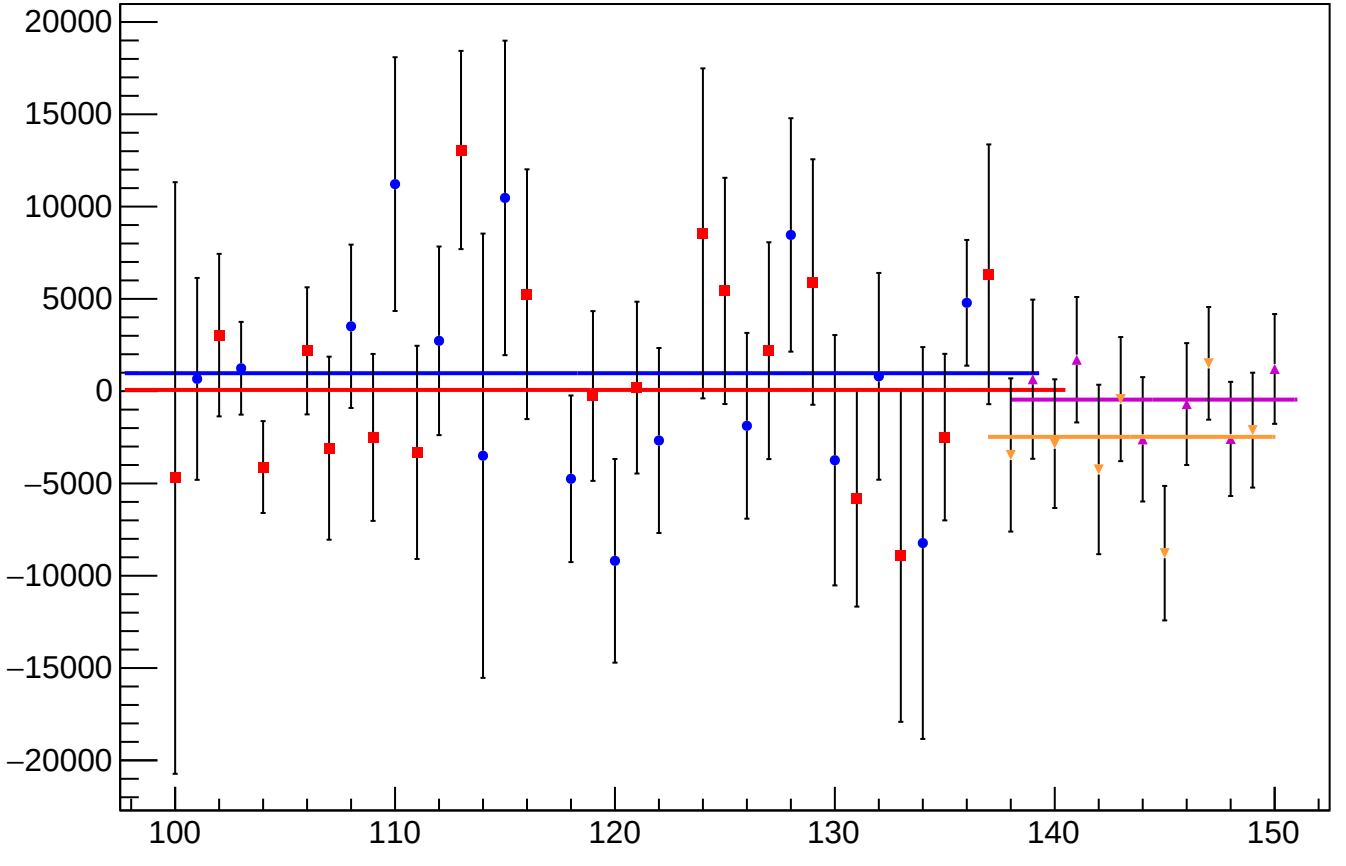
Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1128.819+/-0.230 $\chi^2$/NDF:879511.0/21

Out: 1120.043+/-0.226 $\chi^2$/NDF:702911.0/25

All: 1124.364+/-0.161 $\chi^2$/NDF: 1583163.1/47

asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 973.256+/-1232.803 $\chi^2$/NDF: 13.8/15

Left Out: -2475.379+/-1333.729 $\chi^2$/NDF:5.3/6

Right Out: 67.113+/-1137.892 $\chi^2$/NDF: 16.9/18

Left In: -457.346+/-1363.514 $\chi^2$/NDF:1.7/5

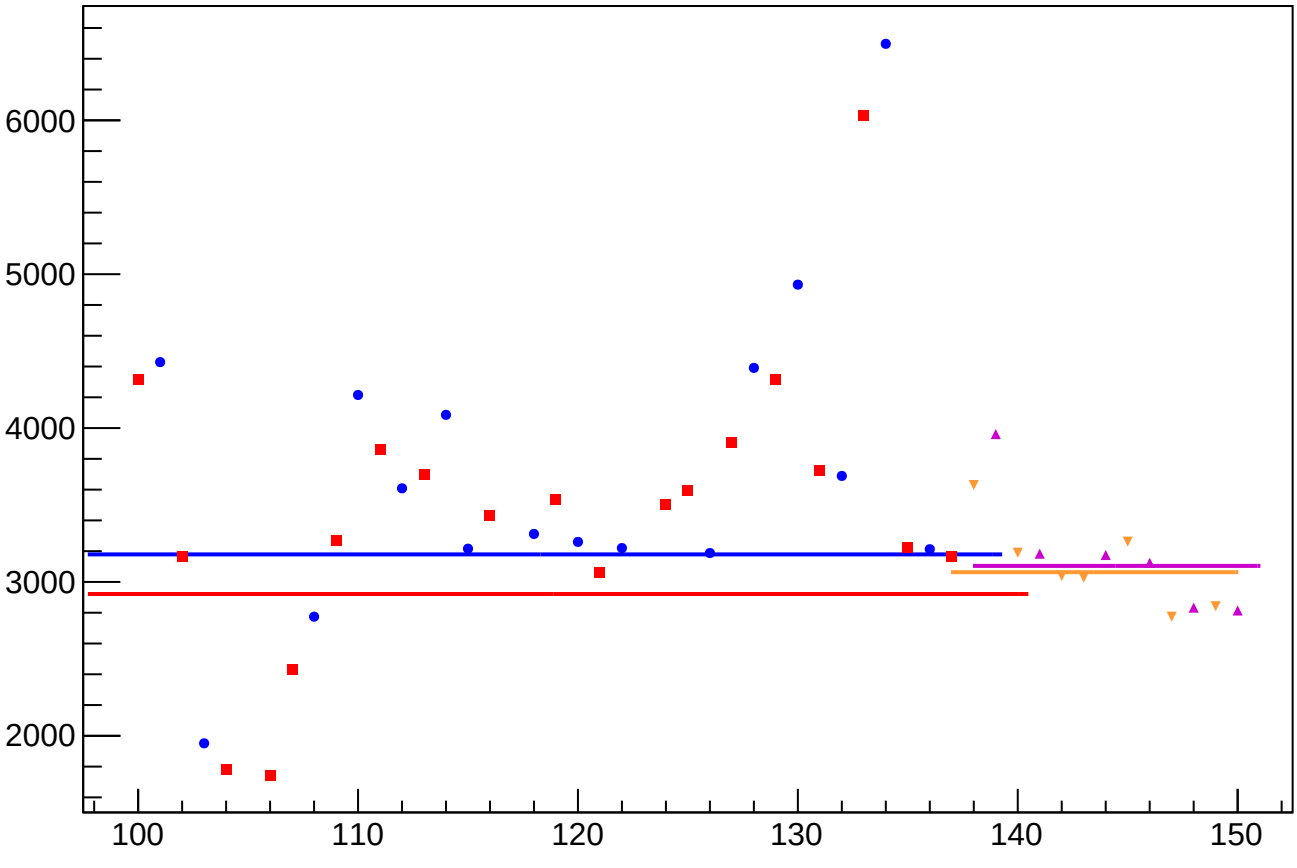
Left: -1488.645+/-953.445 $\chi^2$/NDF: 8.1/12

Right: 483.965+/-836.154 $\chi^2$/NDF: 31.0/34

In: 329.797+/-914.452 $\chi^2$/NDF:16.1/21

Out: -1003.938+/-865.651 $\chi^2$/NDF:24.3/25

All: -373.607+/-628.652 $\chi^2$/NDF: 41.5/47




Right In: 3179.054+/-0.872 $\chi^2$/NDF: 1091236.5/15

Left Out: 3063.473+/-0.943 $\chi^2$/NDF:74165.6/6

Right Out: 2921.641+/-0.805 $\chi^2$/NDF: 1312890.1/18

Left In: 3104.294+/-0.964 $\chi^2$/NDF:115398.7/5

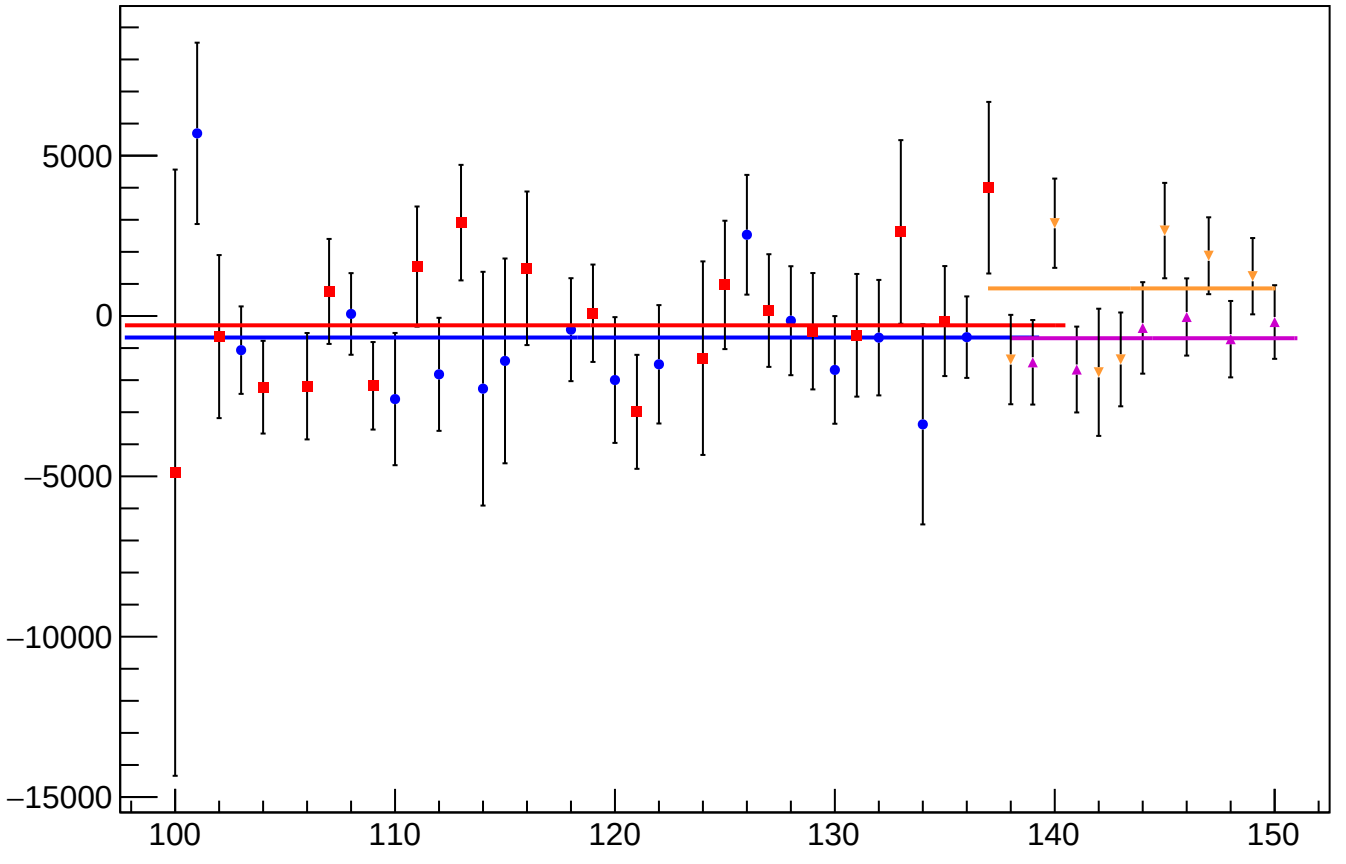
Left: 3083.433+/-0.674 $\chi^2$/NDF: 190480.4/12

Right: 3040.058+/-0.591 $\chi^2$/NDF: 2451210.8/34

In: 3145.428+/-0.647 $\chi^2$/NDF:1209943.4/21

Out: 2981.389+/-0.612 $\chi^2$/NDF:1400145.2/25

All: 3058.915+/-0.445 $\chi^2$/NDF: 2644030.8/47




Right In: -670.819+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 860.501+/-526.505 $\chi^2$/NDF:11.0/6

Right Out: -290.311+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -692.846+/-514.475 $\chi^2$/NDF:1.4/5

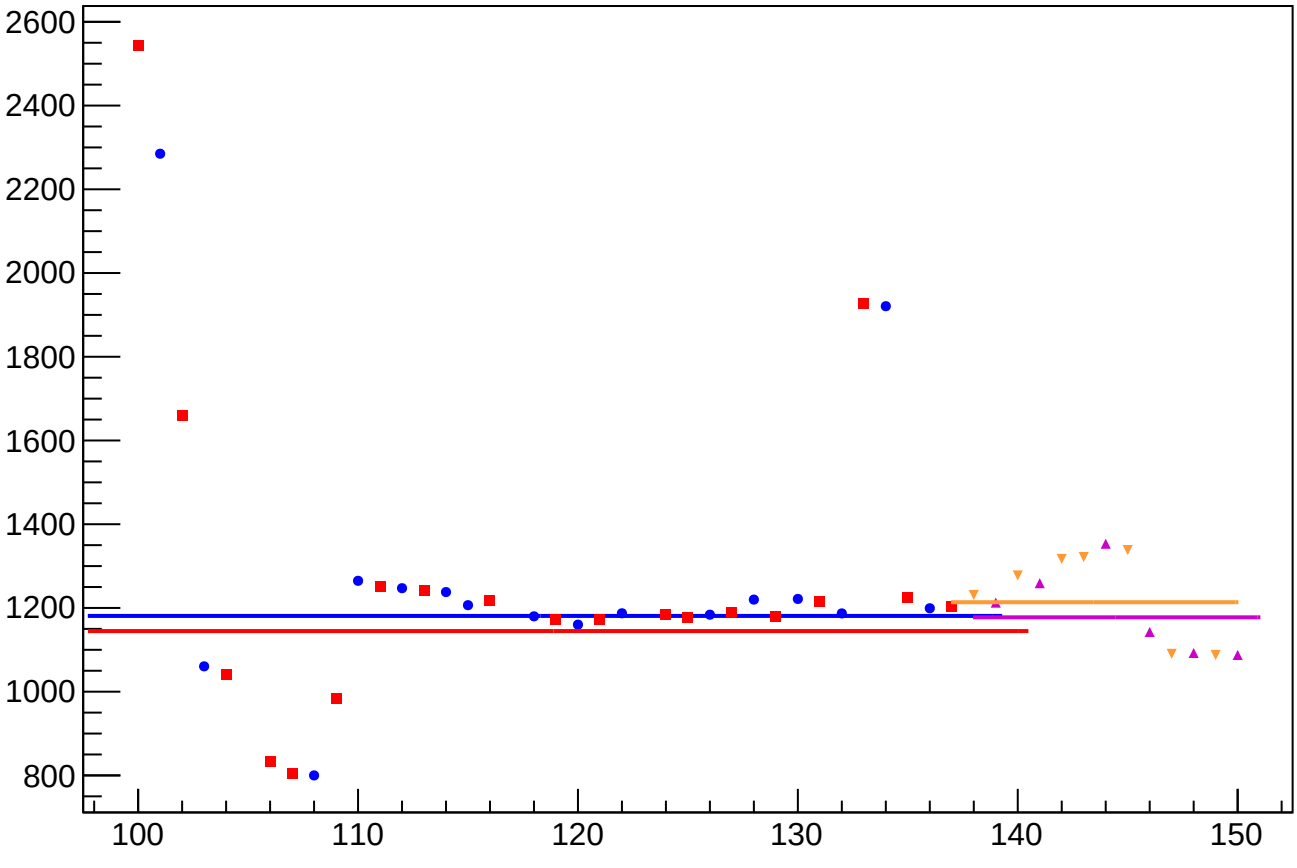
Left: 65.880+/-367.968 $\chi^2$/NDF: 16.8/12

Right: -474.501+/-312.042 $\chi^2$/NDF: 29.2/34

In: -680.331+/-338.073 $\chi^2$/NDF:13.3/21

Out: 175.823+/-335.086 $\chi^2$/NDF:30.8/25

All: -248.455+/-237.990 $\chi^2$/NDF: 47.3/47




Right In: 1180.955+/-0.317 $\chi^2$/NDF: 621878.6/15

Left Out: 1213.694+/-0.372 $\chi^2$/NDF:78482.8/6

Right Out: 1144.777+/-0.307 $\chi^2$/NDF: 497730.6/18

Left In: 1177.603+/-0.364 $\chi^2$/NDF:63382.2/5

Left: 1195.231+/-0.260 $\chi^2$/NDF: 146672.4/12

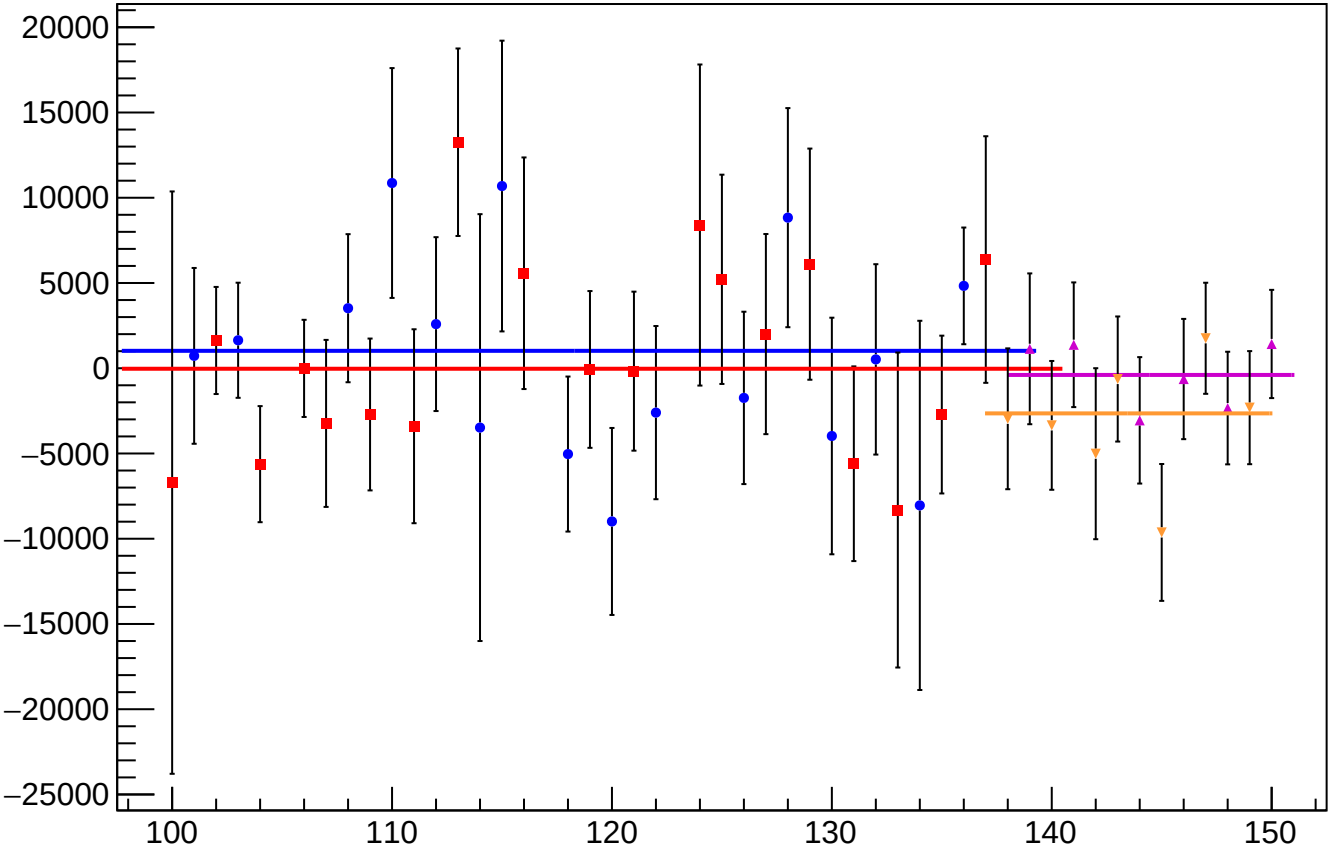
Right: 1162.281+/-0.221 $\chi^2$/NDF: 1126326.7/34

In: 1179.508+/-0.239 $\chi^2$/NDF:685309.1/21

Out: 1172.676+/-0.237 $\chi^2$/NDF:596608.2/25

All: 1176.061+/-0.168 $\chi^2$/NDF: 1282329.4/47

asym_usr_atr2_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 1021.047+/-1302.431 $\chi^2$/NDF: 13.9/15

Left Out: -2647.946+/-1428.588 $\chi^2$/NDF:5.4/6

Right Out: -30.135+/-1130.743 $\chi^2$/NDF: 16.1/18

Left In: -393.360+/-1458.721 $\chi^2$/NDF:1.5/5

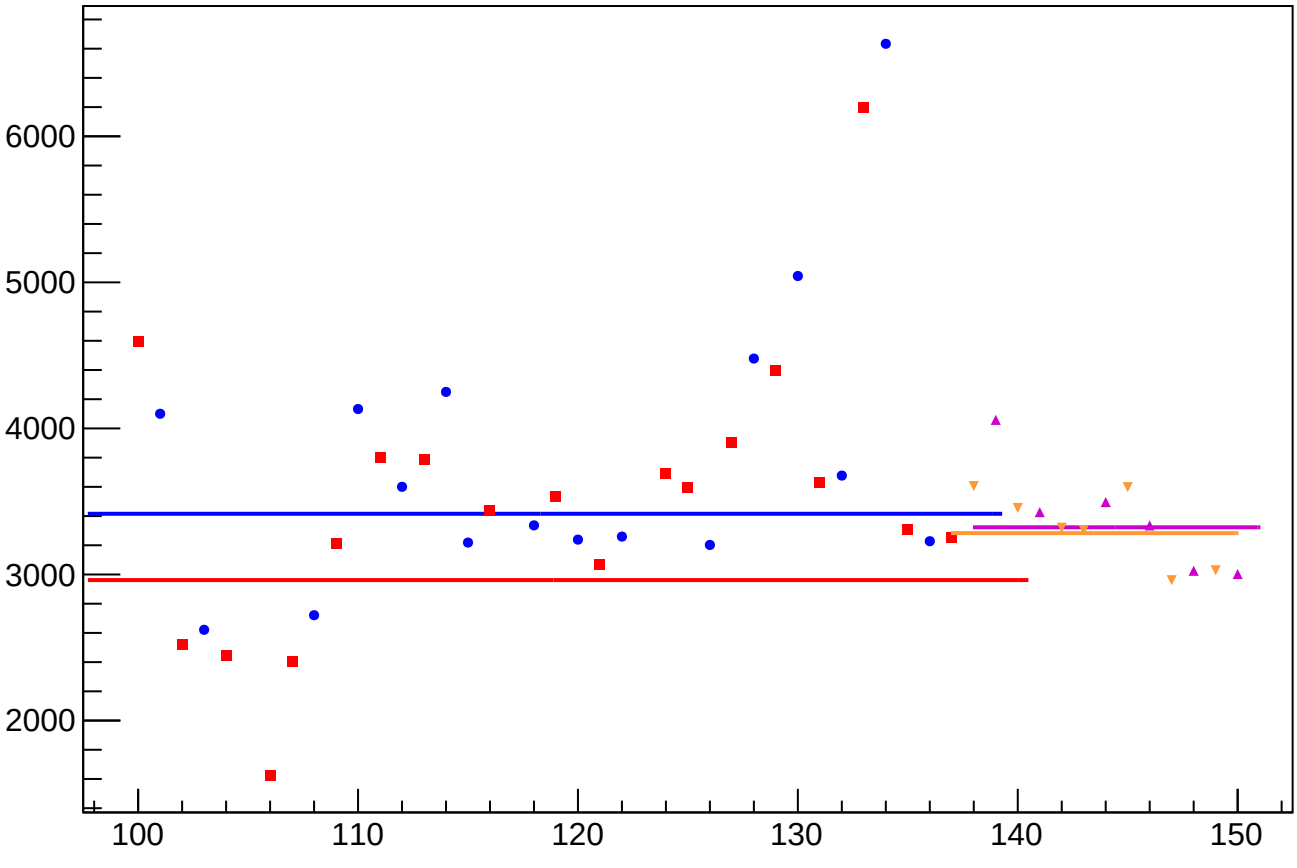
Left: -1544.180+/-1020.651 $\chi^2$/NDF: 8.2/12

Right: 421.650+/-853.851 $\chi^2$/NDF: 30.4/34

In: 393.648+/-971.532 $\chi^2$/NDF:15.9/21

Out: -1038.460+/-886.621 $\chi^2$/NDF:23.6/25

All: -387.712+/-654.901 $\chi^2$/NDF: 40.8/47




Right In: 3415.595+/-0.921 $\chi^2$/NDF: 592344.0/15

Left Out: 3283.146+/-1.010 $\chi^2$/NDF:60167.8/6

Right Out: 2961.798+/-0.800 $\chi^2$/NDF: 1169257.4/18

Left In: 3323.037+/-1.031 $\chi^2$/NDF:97863.7/5

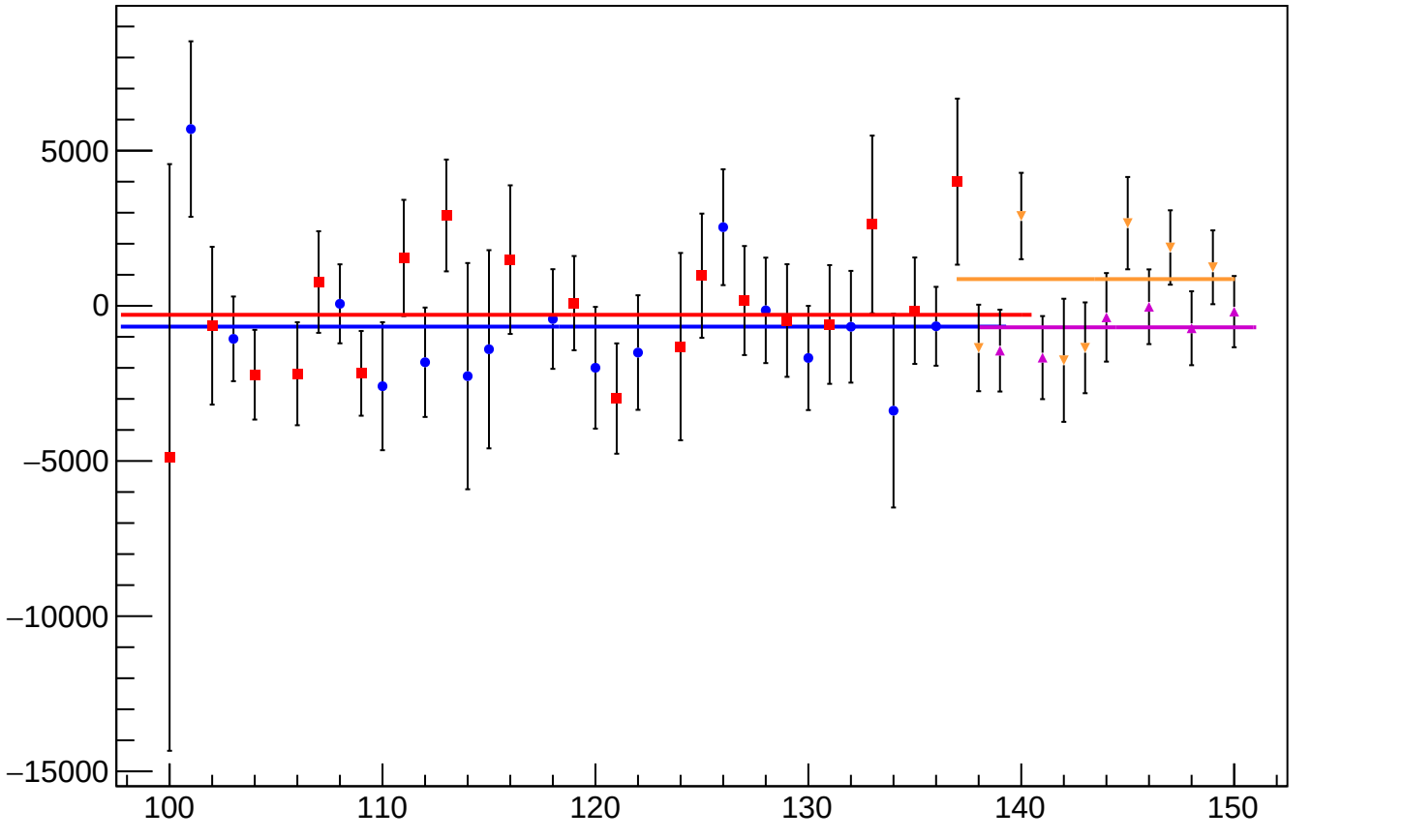
Left: 3302.675+/-0.722 $\chi^2$/NDF: 158795.0/12

Right: 3156.834+/-0.604 $\chi^2$/NDF: 1900046.9/34

In: 3374.538+/-0.687 $\chi^2$/NDF:694688.1/21

Out: 3085.574+/-0.627 $\chi^2$/NDF:1291643.0/25

All: 3216.879+/-0.463 $\chi^2$/NDF: 2082864.5/47




Right In: -670.824+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 860.500+/-526.505 $\chi^2$/NDF:11.0/6

Right Out: -290.316+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -692.844+/-514.476 $\chi^2$/NDF:1.4/5

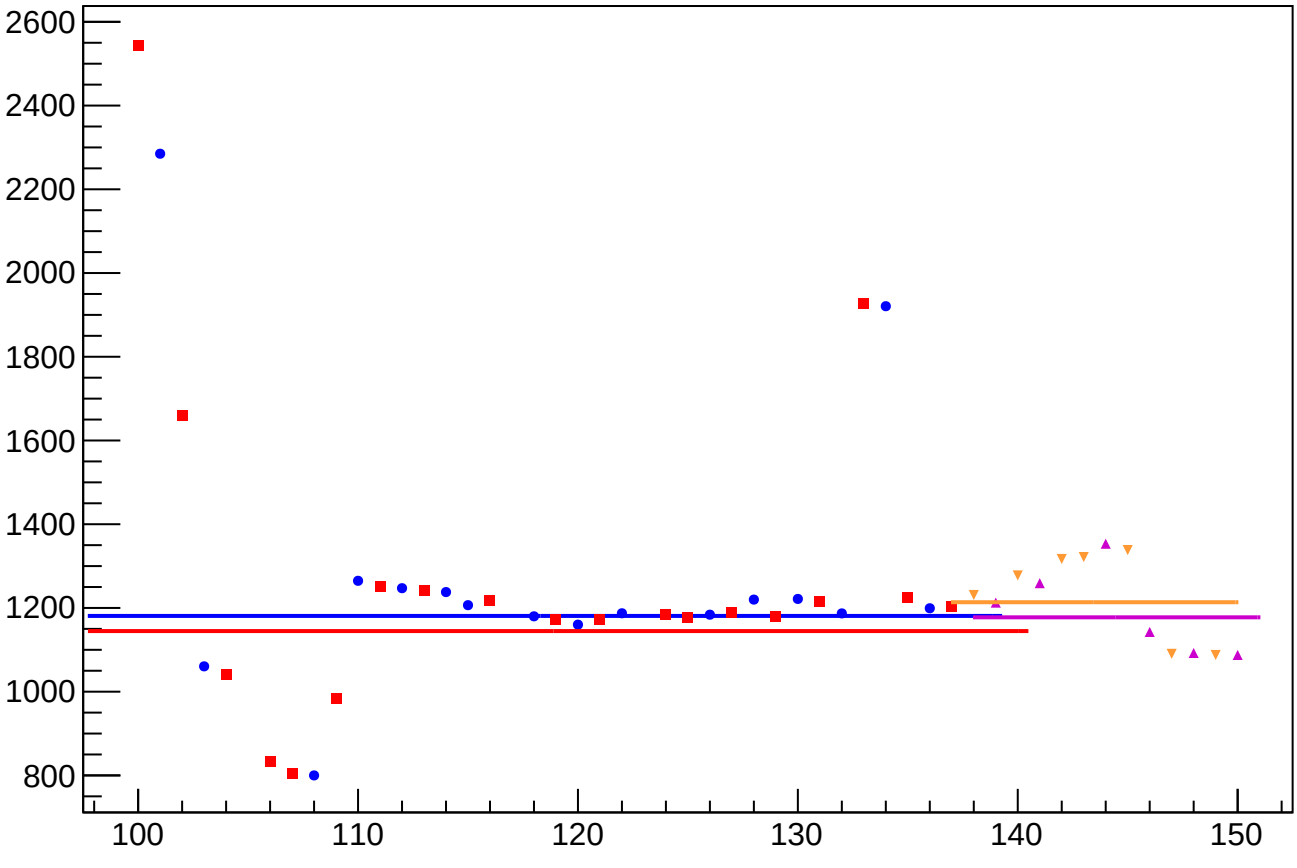
Left: 65.881+/-367.969 $\chi^2$/NDF: 16.8/12

Right: -474.506+/-312.042 $\chi^2$/NDF: 29.2/34

In: -680.332+/-338.073 $\chi^2$/NDF:13.3/21

Out: 175.819+/-335.086 $\chi^2$/NDF:30.8/25

All: -248.457+/-237.990 $\chi^2$/NDF: 47.3/47




Right In: 1180.955+/-0.317 $\chi^2$/NDF: 621878.9/15

Left Out: 1213.694+/-0.372 $\chi^2$/NDF:78482.6/6

Right Out: 1144.777+/-0.307 $\chi^2$/NDF: 497730.2/18

Left In: 1177.604+/-0.364 $\chi^2$/NDF:63381.6/5

Left: 1195.232+/-0.260 $\chi^2$/NDF: 146671.5/12

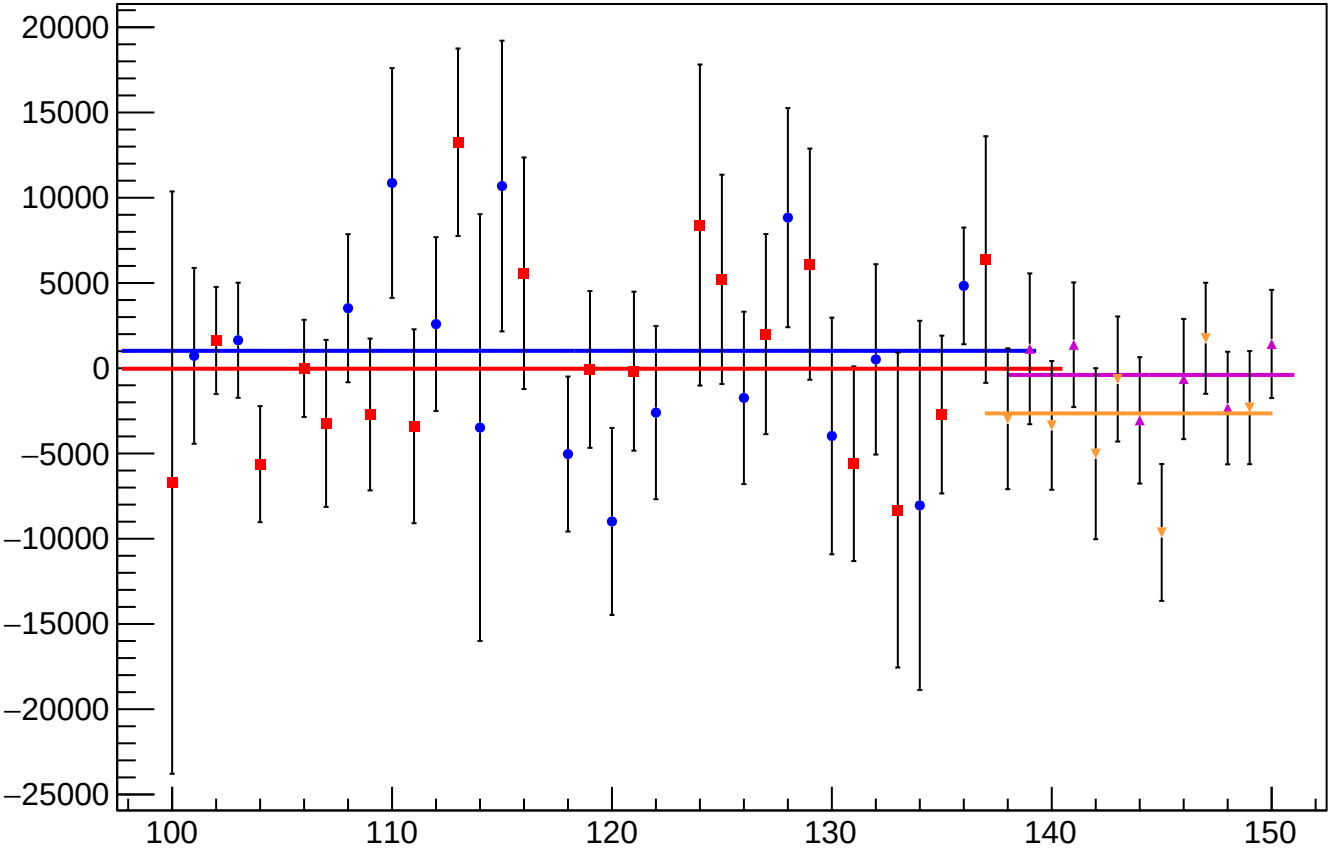
Right: 1162.281+/-0.221 $\chi^2$/NDF: 1126326.4/34

In: 1179.508+/-0.239 $\chi^2$/NDF:685308.7/21

Out: 1172.677+/-0.237 $\chi^2$/NDF:596608.0/25

All: 1176.061+/-0.168 $\chi^2$/NDF: 1282328.8/47

asym_usr_atr2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1021.029+/-1302.430 $\chi^2$/NDF: 13.9/15

Left Out: -2647.949+/-1428.590 $\chi^2$/NDF:5.4/6

Right Out: -30.142+/-1130.741 $\chi^2$/NDF: 16.1/18

Left In: -393.355+/-1458.723 $\chi^2$/NDF:1.5/5

Left: -1544.179+/-1020.653 $\chi^2$/NDF: 8.2/12

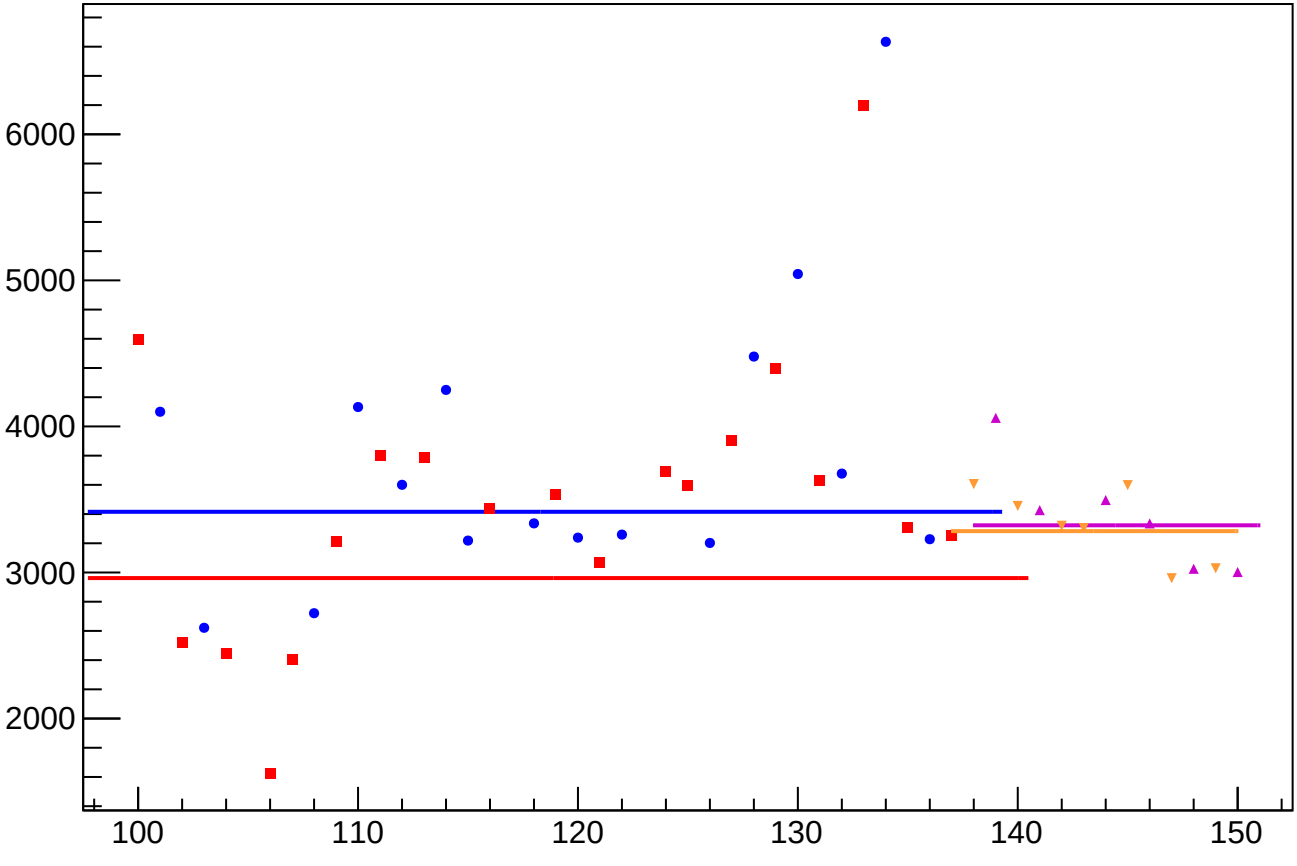
Right: 421.639+/-853.849 $\chi^2$/NDF: 30.4/34

In: 393.641+/-971.532 $\chi^2$/NDF:15.9/21

Out: -1038.462+/-886.621 $\chi^2$/NDF:23.6/25

All: -387.716+/-654.901 $\chi^2$/NDF: 40.8/47

asym_usr_atr2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3415.591+/-0.921 $\chi^2$/NDF: 592339.1/15

Left Out: 3283.150+/-1.010 $\chi^2$/NDF:60167.3/6

Right Out: 2961.793+/-0.800 $\chi^2$/NDF: 1169257.0/18

Left In: 3323.041+/-1.031 $\chi^2$/NDF:97863.1/5

Left: 3302.680+/-0.722 $\chi^2$/NDF: 158793.8/12

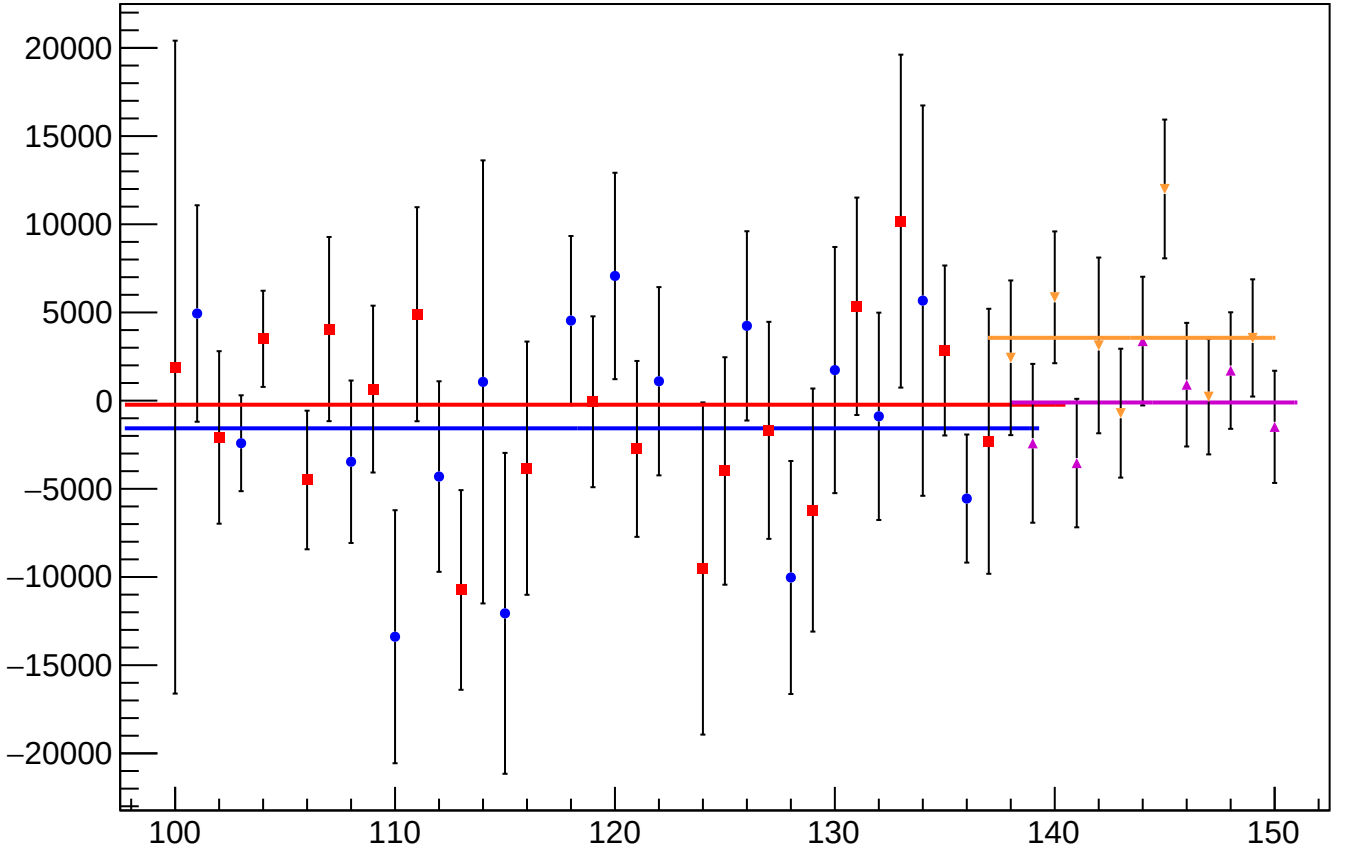
Right: 3156.830+/-0.604 $\chi^2$/NDF: 1900042.9/34

In: 3374.538+/-0.687 $\chi^2$/NDF:694681.8/21

Out: 3085.573+/-0.627 $\chi^2$/NDF:1291645.7/25

All: 3216.878+/-0.463 $\chi^2$/NDF: 2082862.2/47

# asym_usr_atr2_dd_mean vs Slug, Sign Corrected




Right In: -1569.809+/-1312.937 $\chi^2$/NDF: 14.5/15

Left Out: 3562.790+/-1432.280 $\chi^2$/NDF:7.5/6

Right Out: -231.125+/-1224.318 $\chi^2$/NDF: 13.2/18

Left In: -105.172+/-1456.078 $\chi^2$/NDF:2.6/5

Left: 1759.028+/-1021.085 $\chi^2$/NDF: 13.3/12

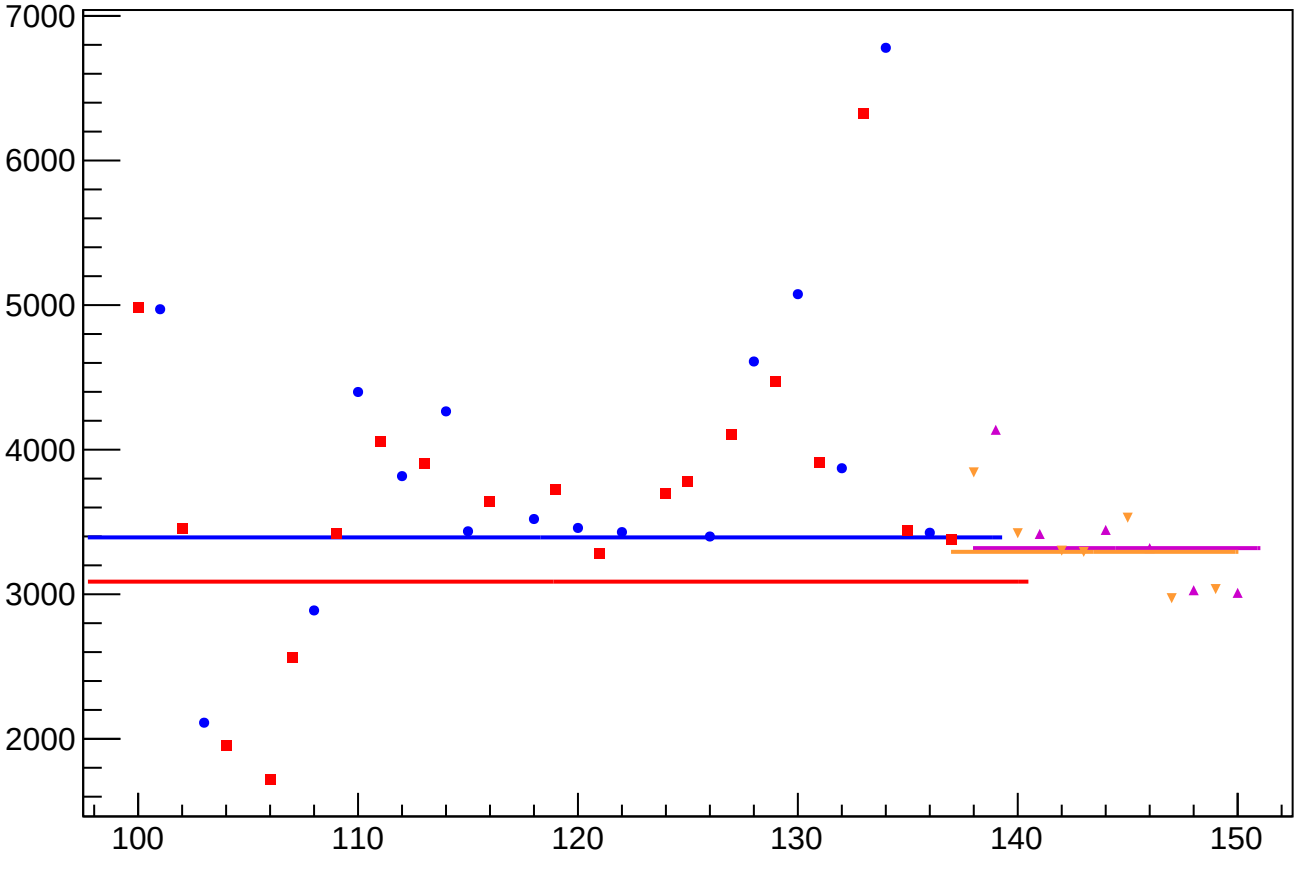
Right: -853.767+/-895.415 $\chi^2$/NDF: 28.2/34

In: -913.001+/-975.076 $\chi^2$/NDF:17.7/21

Out: 1370.649+/-930.646 $\chi^2$/NDF:24.7/25

All: 282.036+/-673.226 $\chi^2$/NDF: 45.3/47

# asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 3393.365+/-0.928 $\chi^2$/NDF: 1048707.6/15

Left Out: 3293.511+/-1.013 $\chi^2$/NDF:72229.2/6

Right Out: 3087.307+/-0.851 $\chi^2$/NDF: 1328355.8/18

Left In: 3319.160+/-1.030 $\chi^2$/NDF:104370.3/5

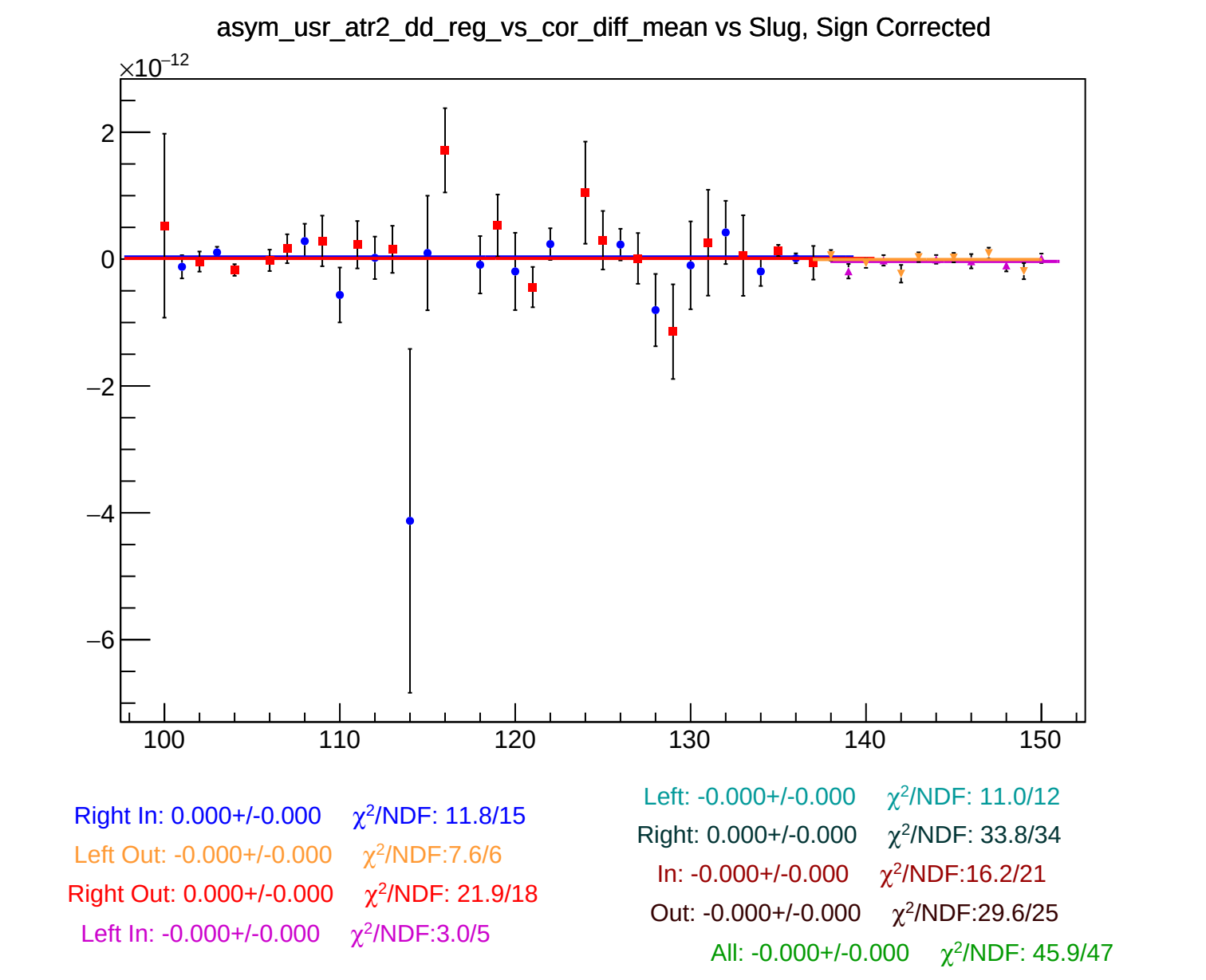
Left: 3306.124+/-0.722 $\chi^2$/NDF: 176914.9/12

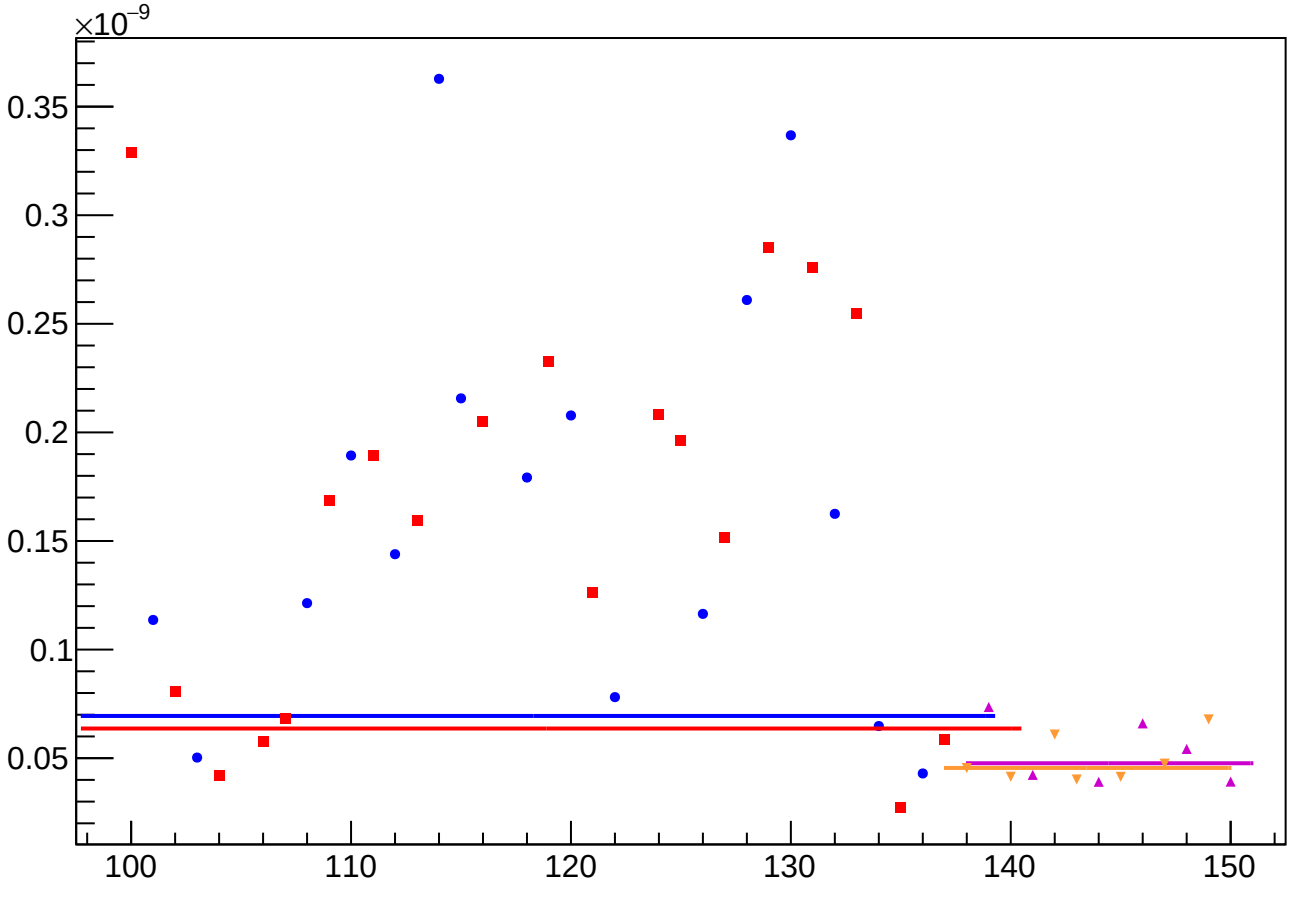
Right: 3227.090+/-0.627 $\chi^2$/NDF: 2436107.0/34

In: 3360.088+/-0.689 $\chi^2$/NDF:1155942.8/21

Out: 3172.671+/-0.652 $\chi^2$/NDF:1424878.4/25

All: 3261.094+/-0.474 $\chi^2$/NDF: 2619848.9/47


asym_usr_atr2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
0
−2
−4
−6
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 11.8/15
Left Out: -0.000+/-0.000 χ²/NDF:7.6/6
Right Out: 0.000+/-0.000 χ²/NDF: 21.9/18
Left In: -0.000+/-0.000 χ²/NDF:3.0/5
Left: -0.000+/-0.000 χ²/NDF: 11.0/12
Right: 0.000+/-0.000 χ²/NDF: 33.8/34
In: -0.000+/-0.000 χ²/NDF:16.2/21
Out: -0.000+/-0.000 χ²/NDF:29.6/25
All: -0.000+/-0.000 χ²/NDF: 45.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1729471.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:109239.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2250342.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:231550.8/5

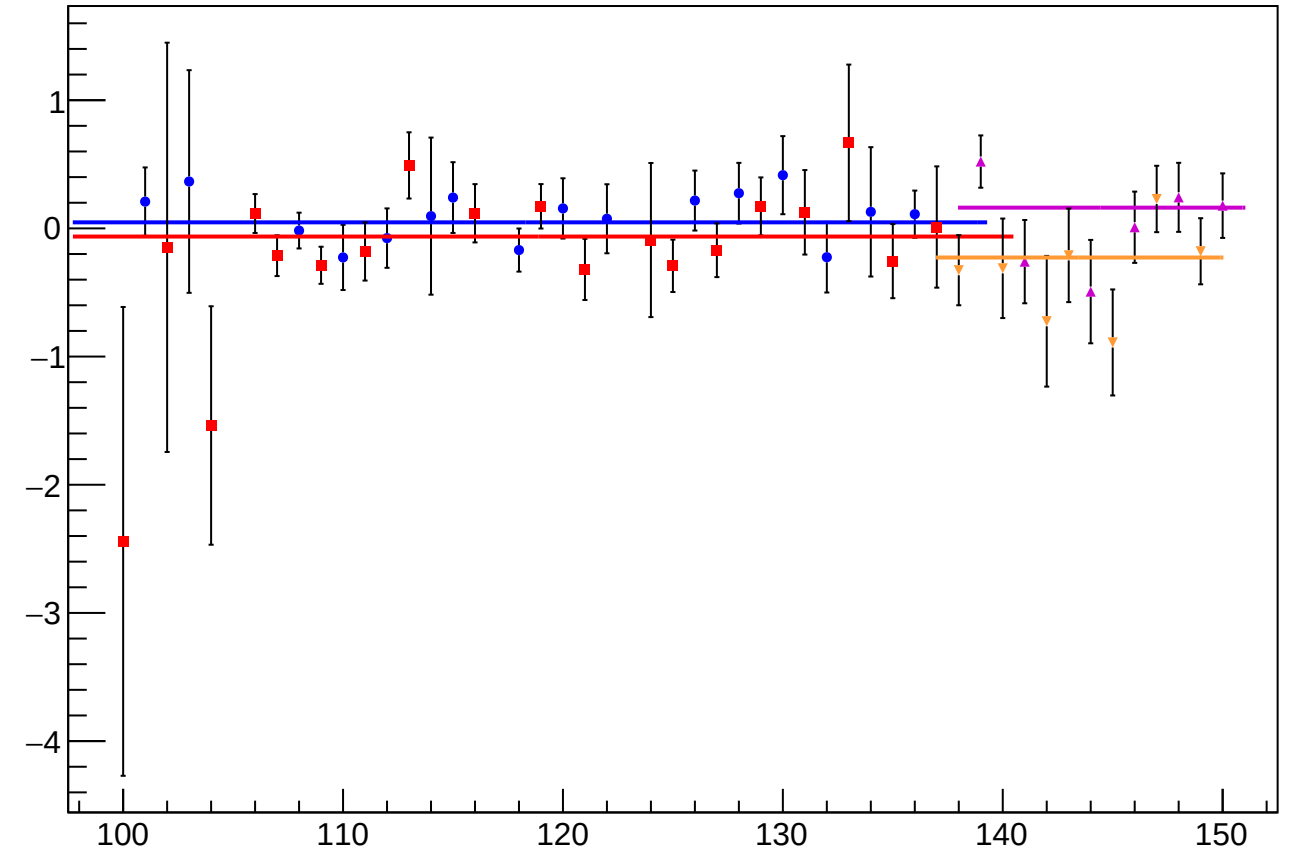
Left: 0.000+/-0.000 $\chi^2$/NDF: 344823.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3993621.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:2222244.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2546026.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4788981.9/47




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.227+/-0.122 $\chi^2$/NDF:6.8/6

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.162+/-0.110 $\chi^2$/NDF:7.8/5

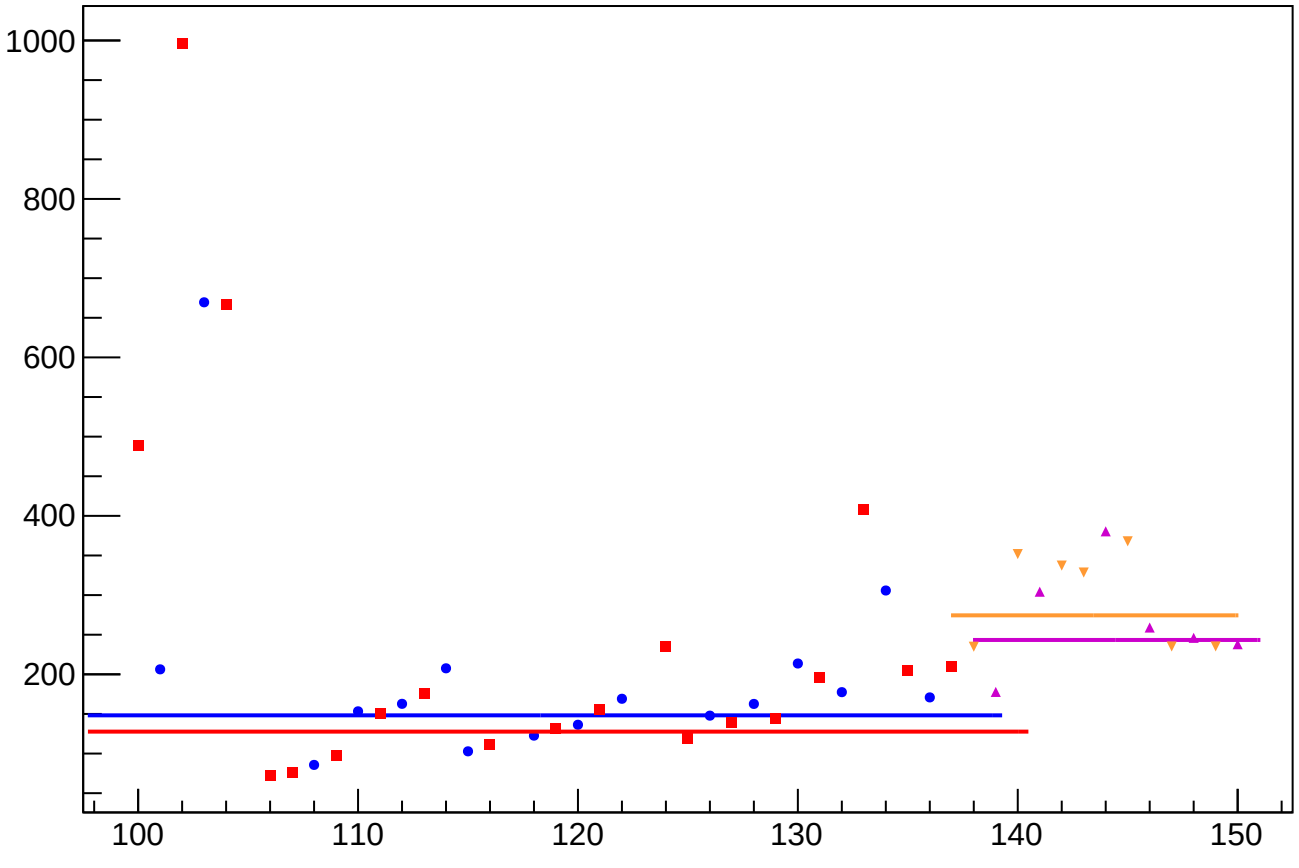
Left: -0.013+/-0.082 $\chi^2$/NDF: 20.3/12

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.053 $\chi^2$/NDF:17.2/21

Out: -0.091+/-0.050 $\chi^2$/NDF:30.6/25

All: -0.013+/-0.036 $\chi^2$/NDF: 52.9/47




Right In: 148.240+/-0.042 $\chi^2$/NDF: 1710035.6/15

Left Out: 274.446+/-0.086 $\chi^2$/NDF:389969.3/6

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841780.7/18

Left In: 243.371+/-0.078 $\chi^2$/NDF:515595.7/5

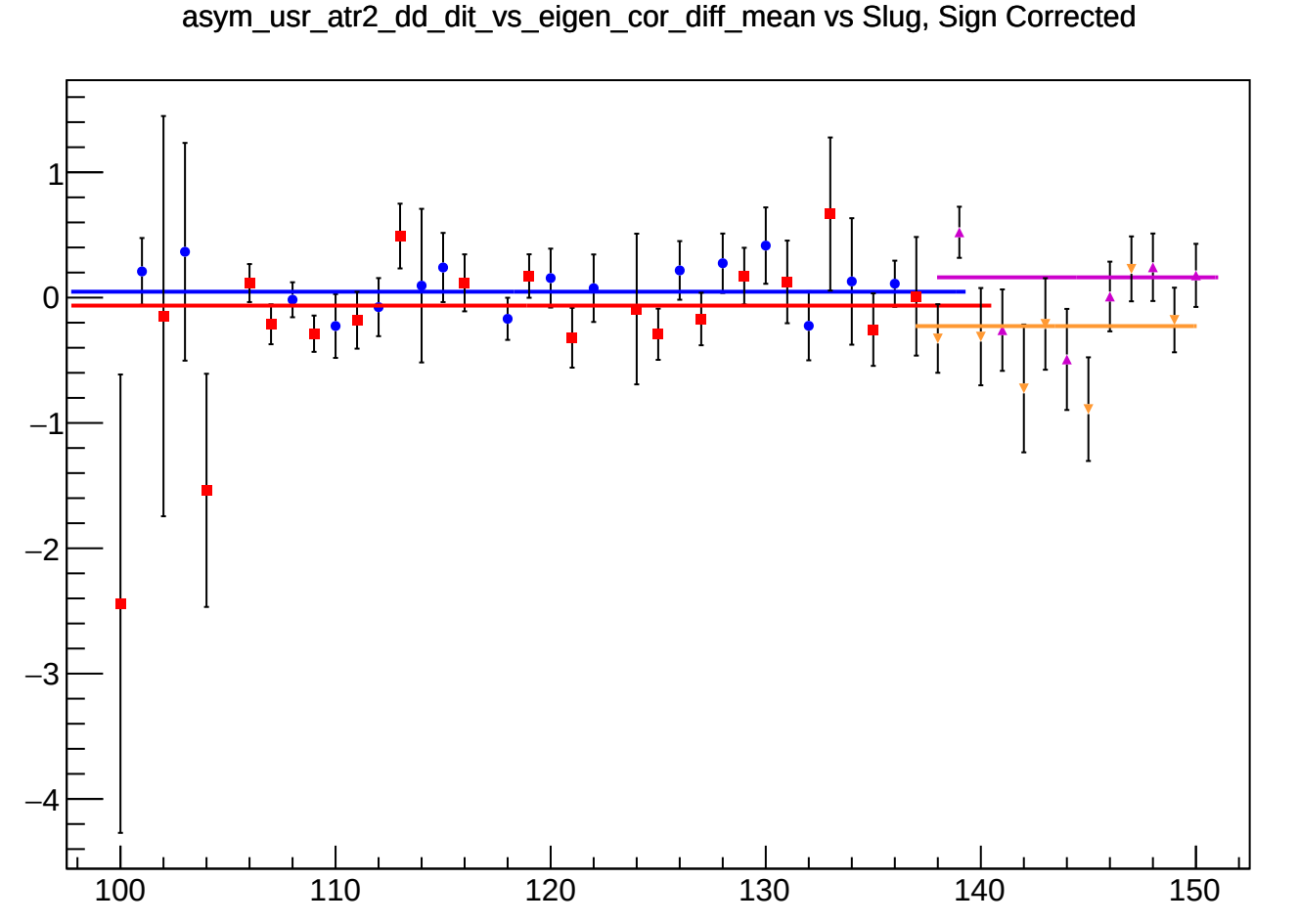
Left: 257.346+/-0.058 $\chi^2$/NDF: 976930.7/12

Right: 137.004+/-0.029 $\chi^2$/NDF: 4680006.1/34

In: 169.972+/-0.037 $\chi^2$/NDF:3373045.4/21

Out: 152.215+/-0.035 $\chi^2$/NDF:5641030.6/25

All: 160.603+/-0.026 $\chi^2$/NDF: 9133751.7/47




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.227+/-0.122 $\chi^2$/NDF:6.8/6

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.162+/-0.110 $\chi^2$/NDF:7.8/5

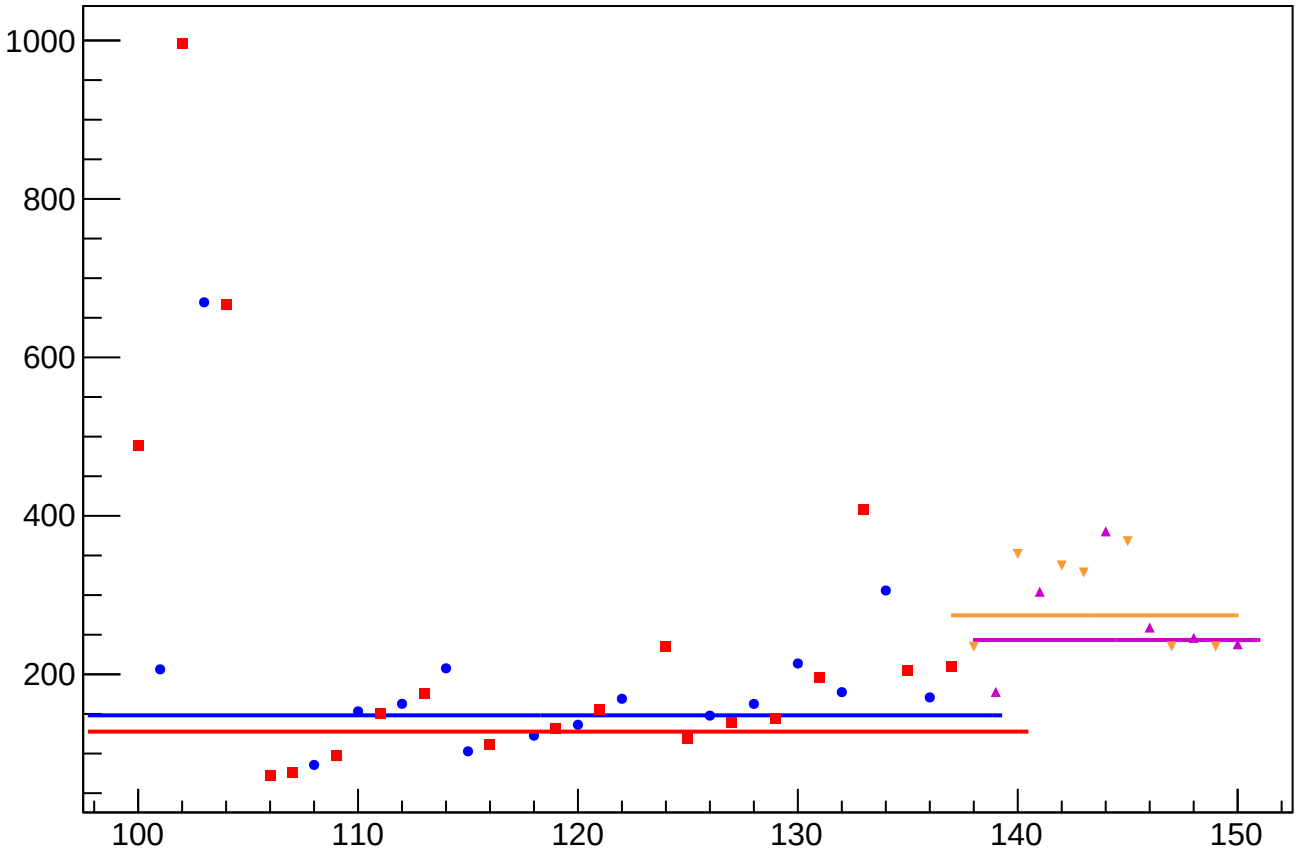
Left: -0.013+/-0.082 $\chi^2$/NDF: 20.3/12

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.053 $\chi^2$/NDF:17.2/21

Out: -0.091+/-0.050 $\chi^2$/NDF:30.6/25

All: -0.013+/-0.036 $\chi^2$/NDF: 52.9/47




Right In: 148.240+/-0.042 $\chi^2$/NDF: 1710035.6/15

Left Out: 274.446+/-0.086 $\chi^2$/NDF:389969.3/6

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841780.7/18

Left In: 243.371+/-0.078 $\chi^2$/NDF:515595.7/5

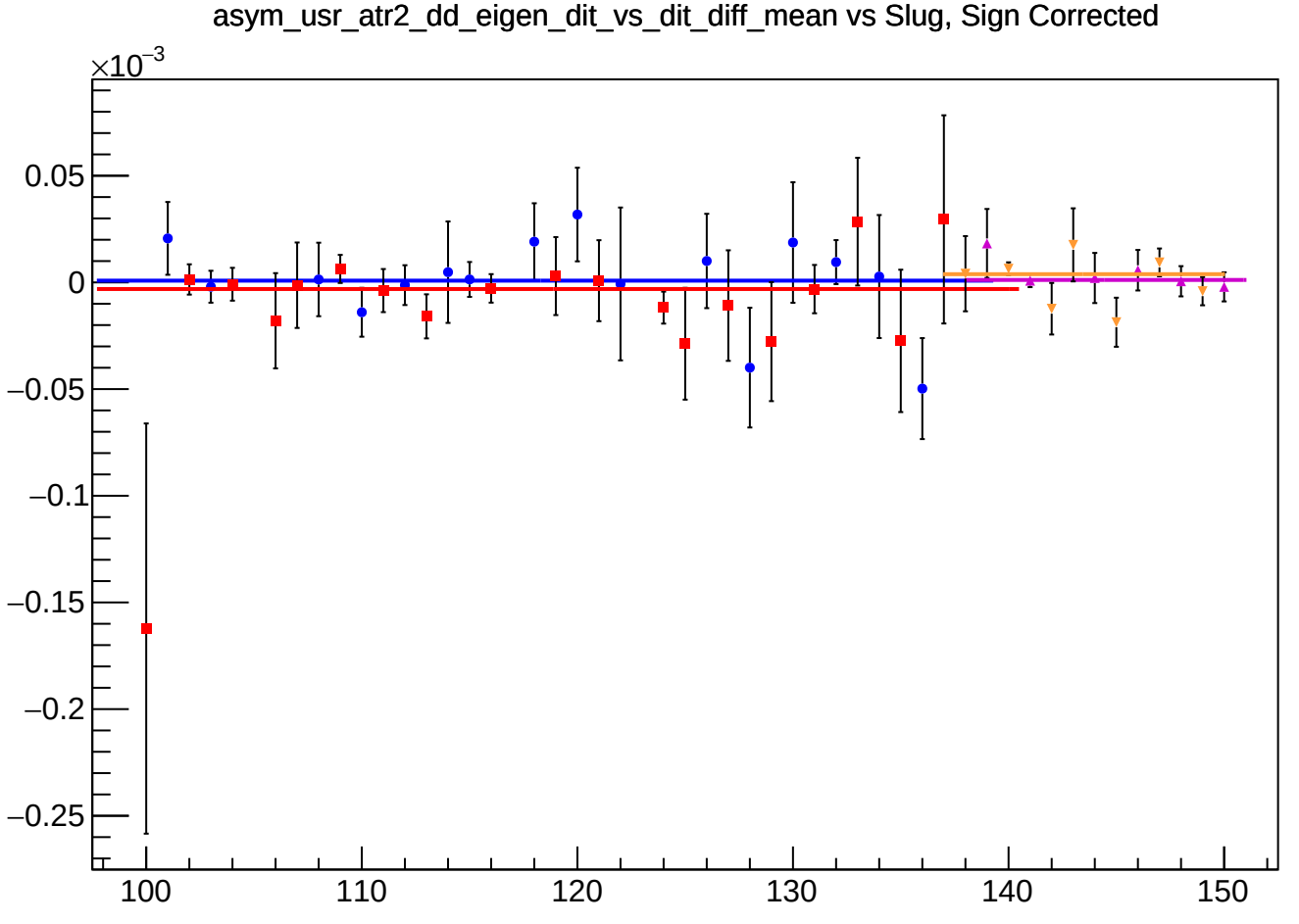
Left: 257.346+/-0.058 $\chi^2$/NDF: 976930.7/12

Right: 137.004+/-0.029 $\chi^2$/NDF: 4680006.1/34

In: 169.972+/-0.037 $\chi^2$/NDF:3373045.4/21

Out: 152.215+/-0.035 $\chi^2$/NDF:5641030.6/25

All: 160.603+/-0.026 $\chi^2$/NDF: 9133751.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.6/5

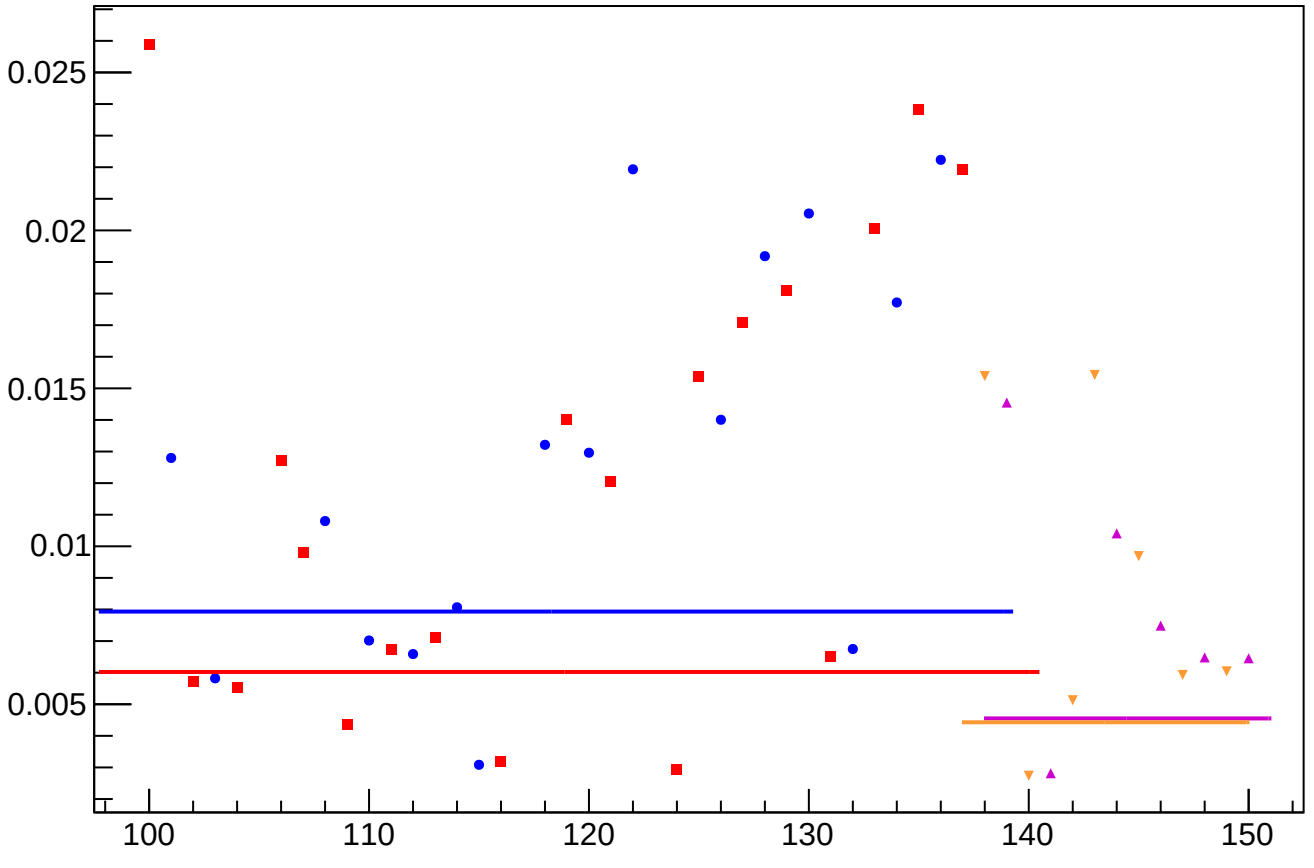
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 41.6/47




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3577687.8/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2888191.7/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4009592.0/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:2426687.3/5

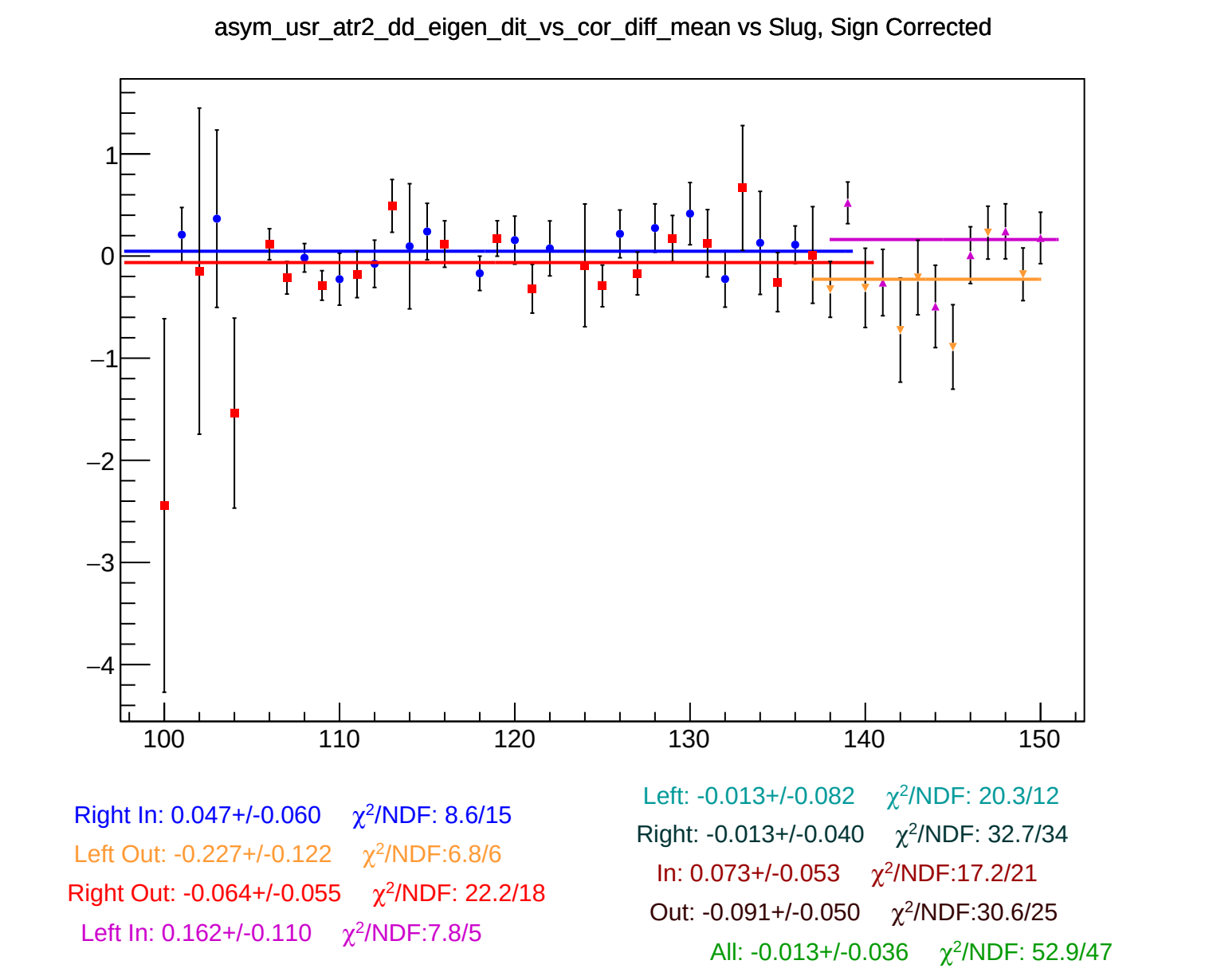
Left: 0.004+/-0.000 $\chi^2$/NDF: 5317493.5/12

Right: 0.007+/-0.000 $\chi^2$/NDF: 7973863.6/34

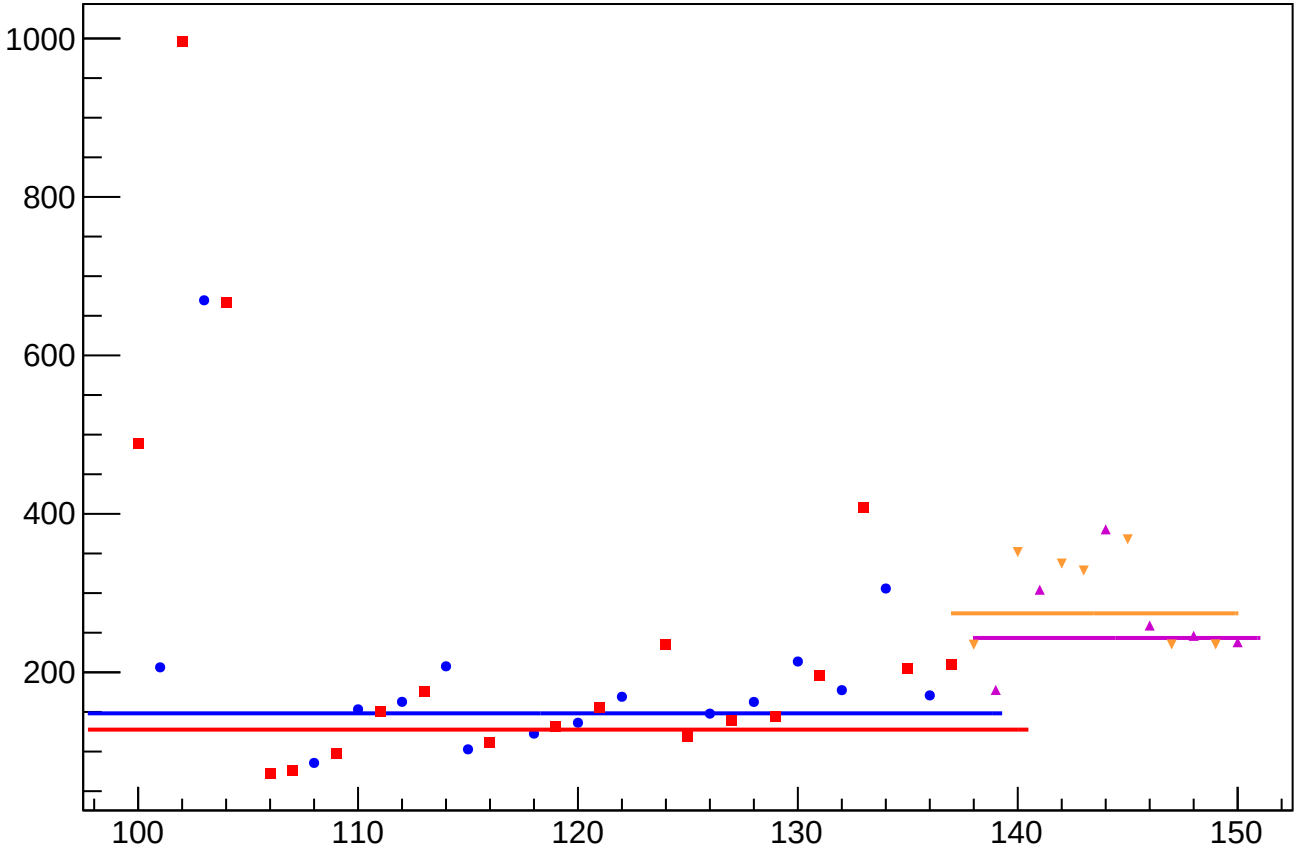
In: 0.006+/-0.000 $\chi^2$/NDF:7296937.0/21

Out: 0.005+/-0.000 $\chi^2$/NDF:7302893.8/25

All: 0.005+/-0.000 $\chi^2$/NDF: 14673490.4/47


asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
1
0
−1
−2
−3
−4
100
110
120
130
140
150
Right In: 0.047+/-0.060 χ²/NDF: 8.6/15
Left Out: -0.227+/-0.122 χ²/NDF:6.8/6
Right Out: -0.064+/-0.055 χ²/NDF: 22.2/18
Left In: 0.162+/-0.110 χ²/NDF:7.8/5
Left: -0.013+/-0.082 χ²/NDF: 20.3/12
Right: -0.013+/-0.040 χ²/NDF: 32.7/34
In: 0.073+/-0.053 χ²/NDF:17.2/21
Out: -0.091+/-0.050 χ²/NDF:30.6/25
All: -0.013+/-0.036 χ²/NDF: 52.9/47

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.238+/-0.042 $\chi^2$/NDF: 1710114.4/15

Left Out: 274.450+/-0.086 $\chi^2$/NDF:389946.1/6

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841772.5/18

Left In: 243.375+/-0.078 $\chi^2$/NDF:515573.6/5

Left: 257.350+/-0.058 $\chi^2$/NDF: 976885.8/12

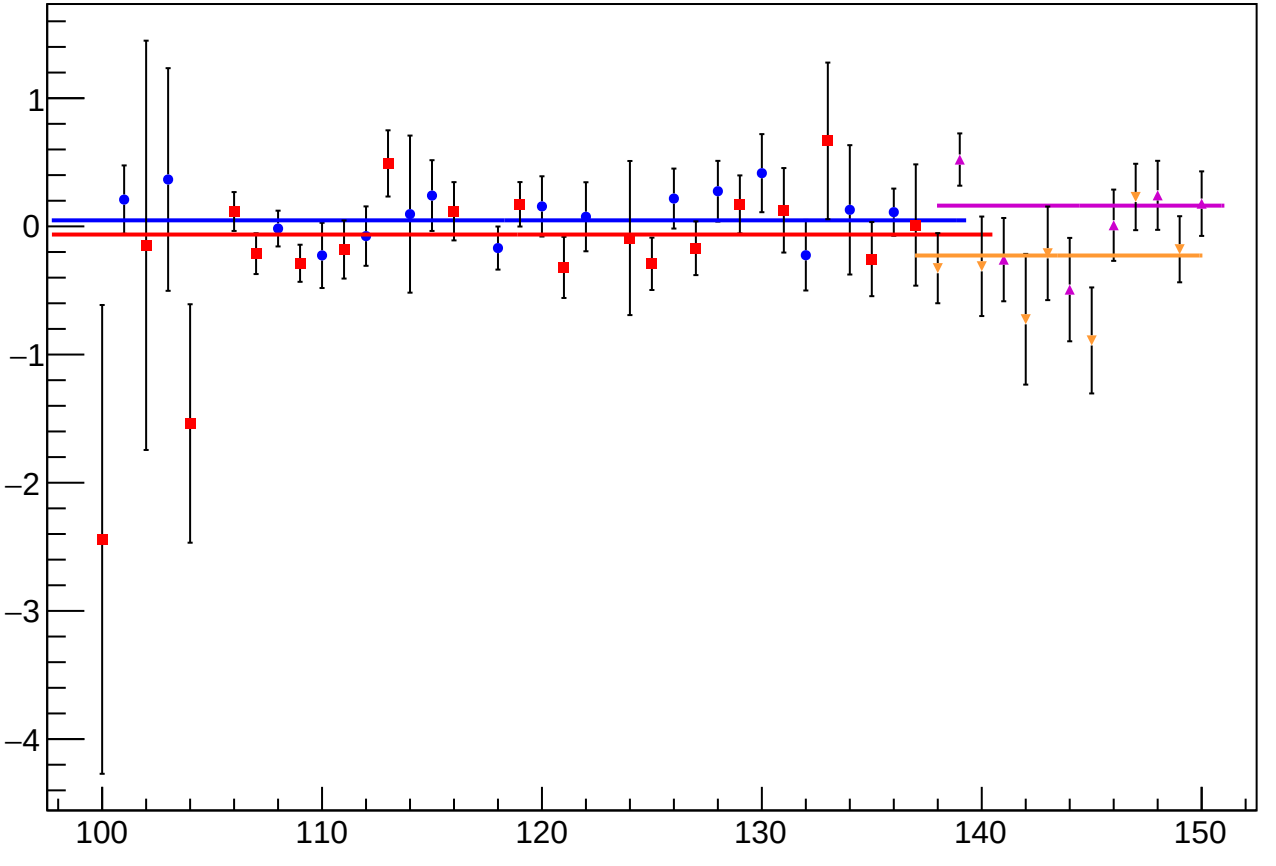
Right: 137.003+/-0.029 $\chi^2$/NDF: 4680047.3/34

In: 169.970+/-0.037 $\chi^2$/NDF:3373233.0/21

Out: 152.215+/-0.035 $\chi^2$/NDF:5641080.1/25

All: 160.602+/-0.026 $\chi^2$/NDF: 9133960.5/47

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.227+/-0.122 $\chi^2$/NDF:6.8/6

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.162+/-0.110 $\chi^2$/NDF:7.8/5

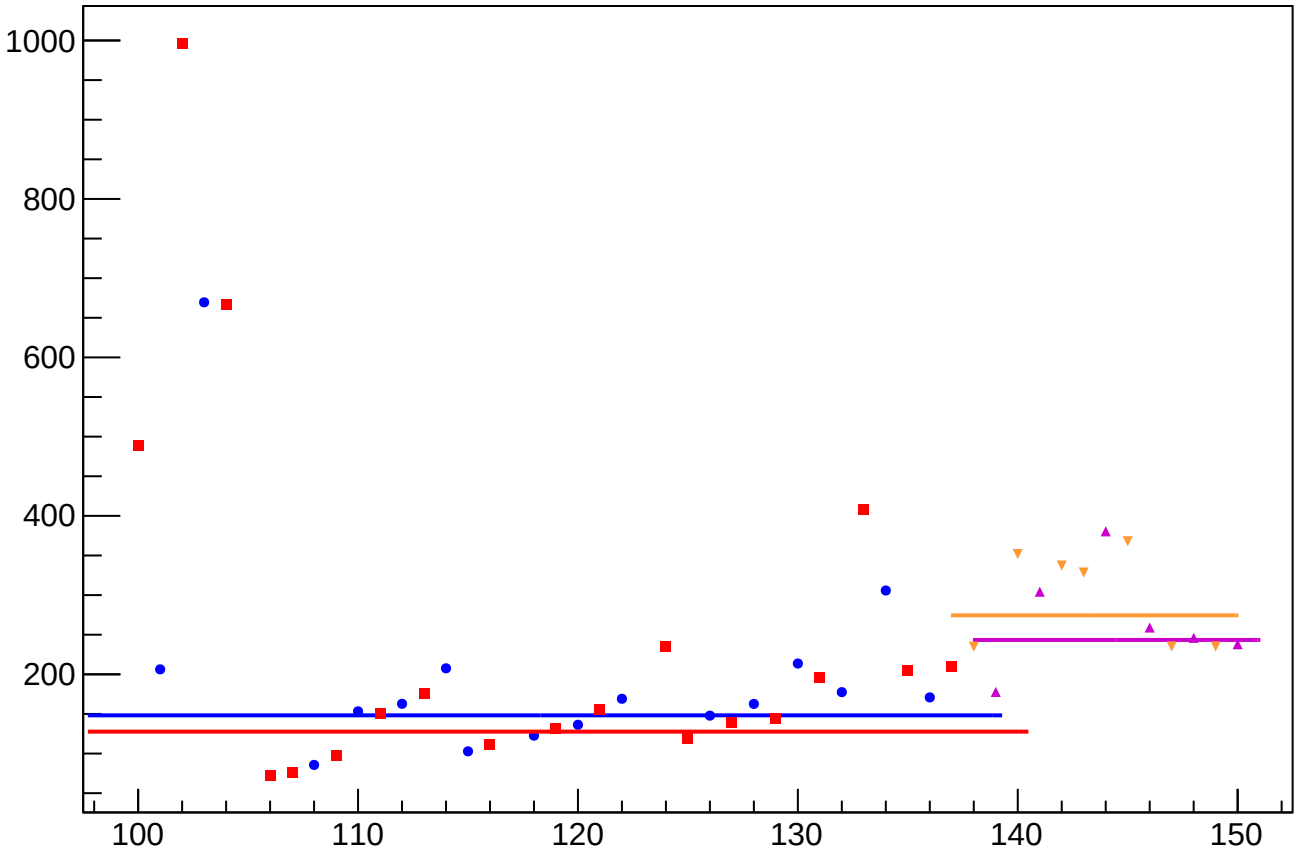
Left: -0.013+/-0.082 $\chi^2$/NDF: 20.3/12

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.053 $\chi^2$/NDF:17.2/21

Out: -0.091+/-0.050 $\chi^2$/NDF:30.6/25

All: -0.013+/-0.036 $\chi^2$/NDF: 52.9/47




Right In: 148.238+/-0.042 $\chi^2$/NDF: 1710114.4/15

Left Out: 274.450+/-0.086 $\chi^2$/NDF:389946.1/6

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841772.5/18

Left In: 243.375+/-0.078 $\chi^2$/NDF:515573.6/5

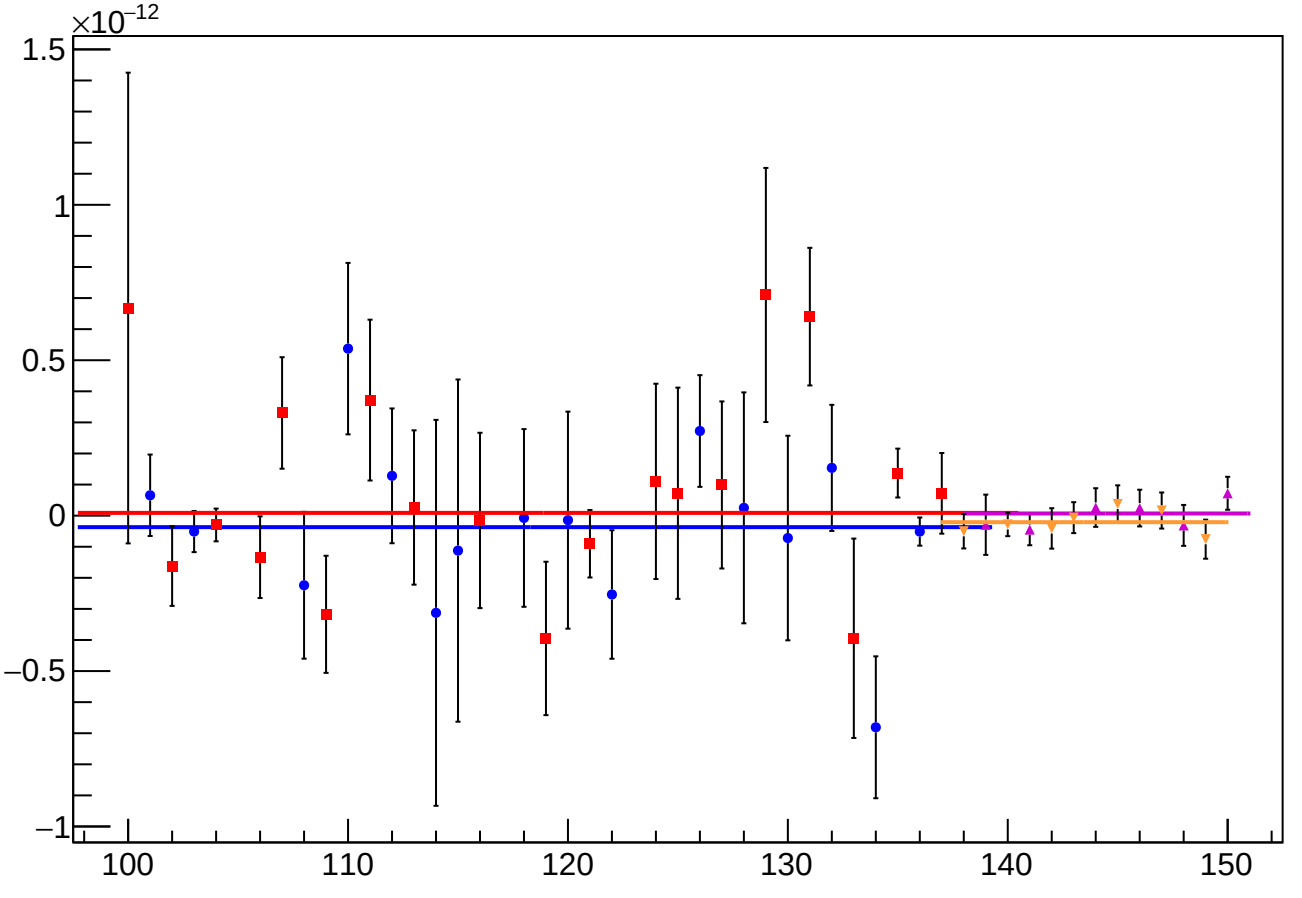
Left: 257.350+/-0.058 $\chi^2$/NDF: 976885.8/12

Right: 137.003+/-0.029 $\chi^2$/NDF: 4680047.3/34

In: 169.970+/-0.037 $\chi^2$/NDF:3373233.0/21

Out: 152.215+/-0.035 $\chi^2$/NDF:5641080.1/25

All: 160.602+/-0.026 $\chi^2$/NDF: 9133960.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 31.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.2/5

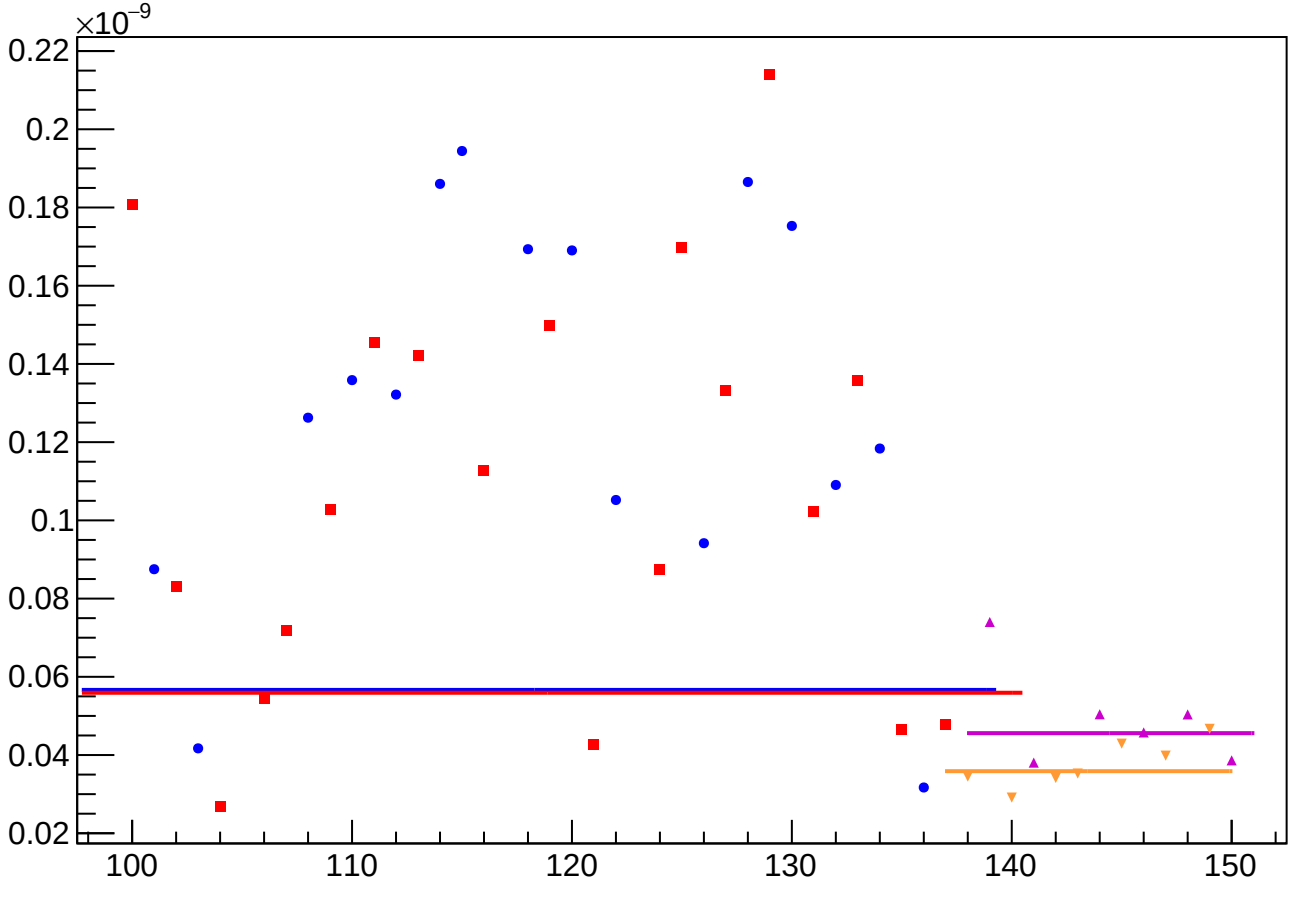
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.9/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 58.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3113213.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:163609.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732977.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:273774.8/5

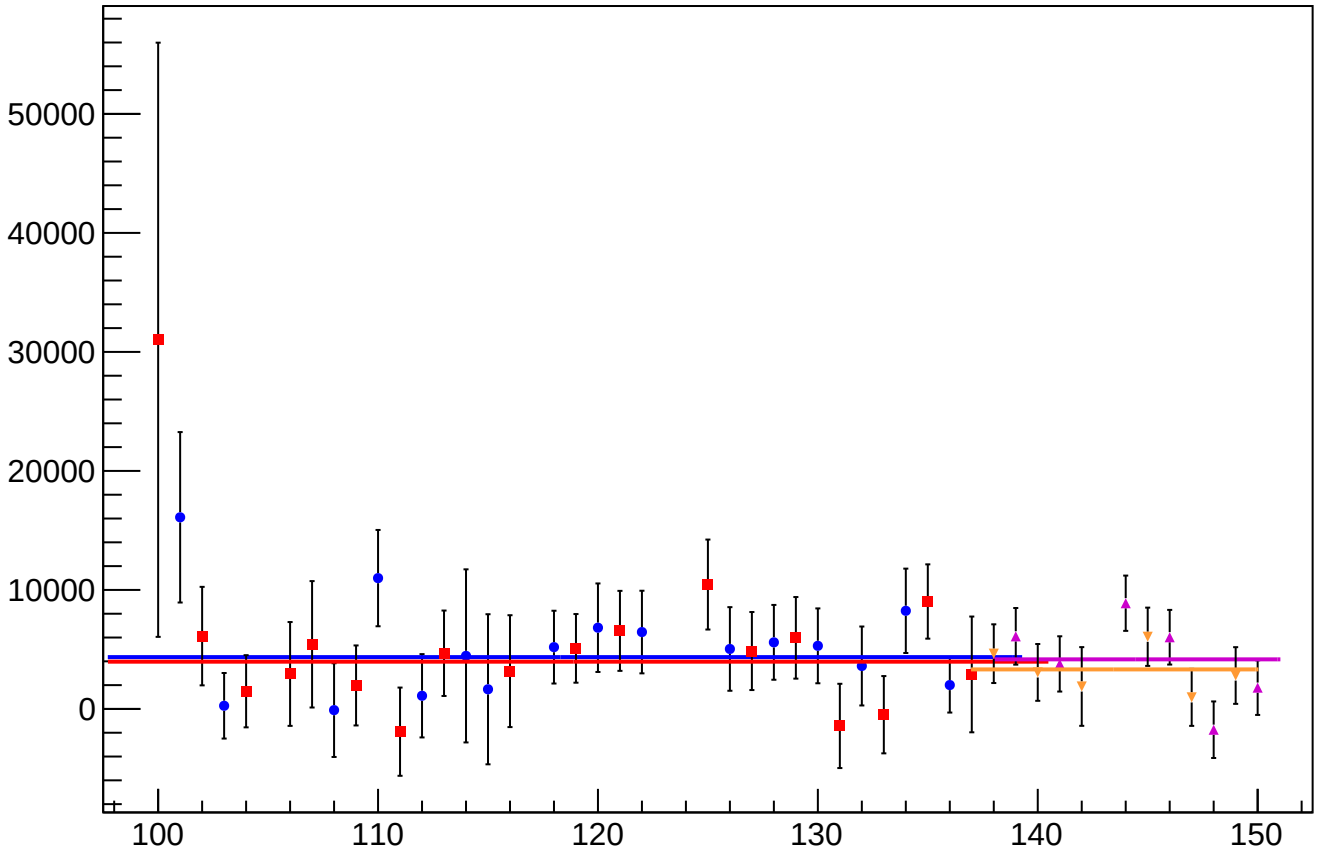
Left: 0.000+/-0.000 $\chi^2$/NDF: 624098.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5846702.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:3535411.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3461156.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7196960.2/47




Right In: 4354.350+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3320.973+/-1026.737 $\chi^2$/NDF:2.7/5

Right Out: 3971.679+/-871.305 $\chi^2$/NDF: 16.2/17

Left In: 4165.933+/-951.736 $\chi^2$/NDF:12.7/5

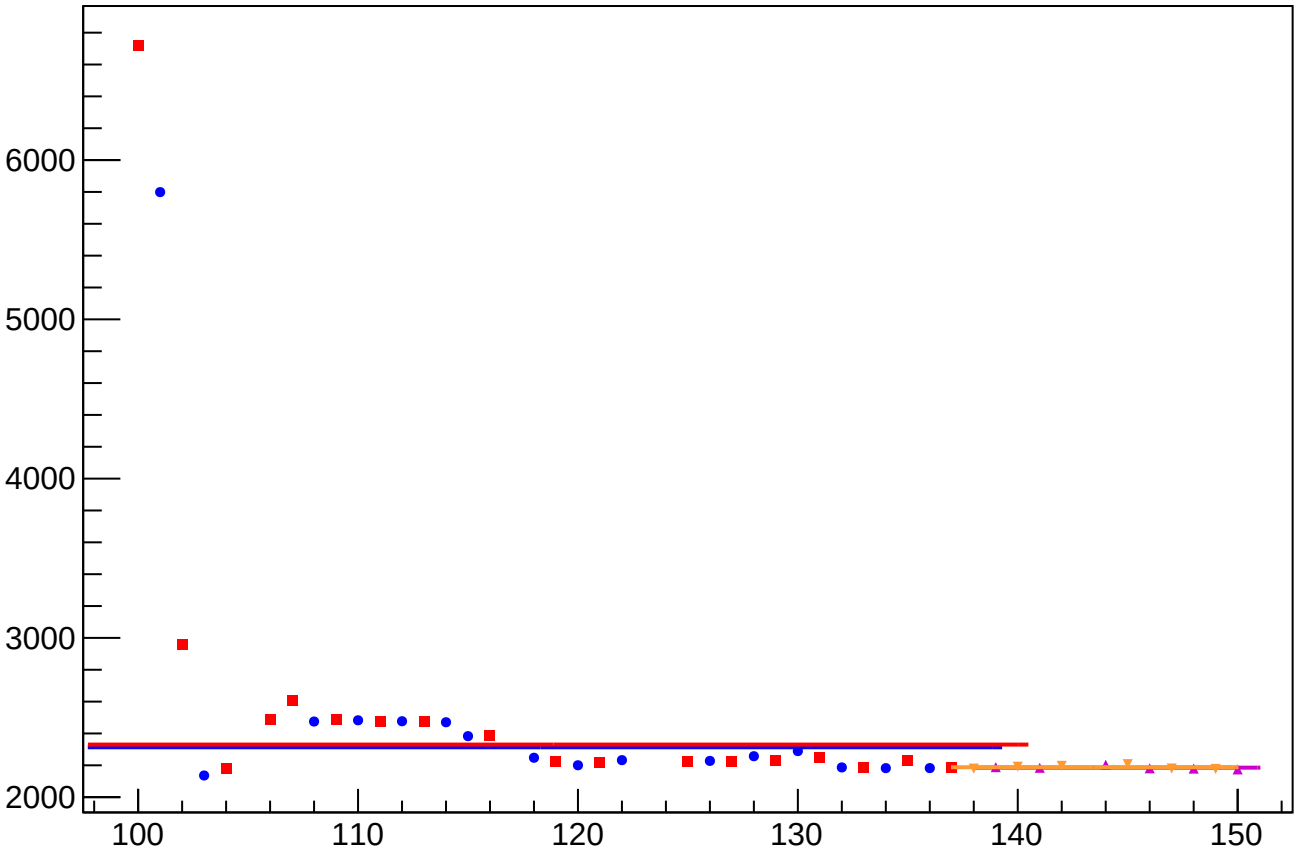
Left: 3775.438+/-697.989 $\chi^2$/NDF: 15.8/11

Right: 4162.171+/-617.462 $\chi^2$/NDF: 29.6/33

In: 4268.026+/-644.203 $\chi^2$/NDF:26.1/21

Out: 3699.258+/-664.335 $\chi^2$/NDF:19.1/23

All: 3992.391+/-462.474 $\chi^2$/NDF: 45.6/45




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512371.8/15

Left Out: 2187.804+/-0.726 $\chi^2$/NDF:229.5/5

Right Out: 2330.200+/-0.616 $\chi^2$/NDF: 151210.5/17

Left In: 2185.331+/-0.673 $\chi^2$/NDF:192.9/5

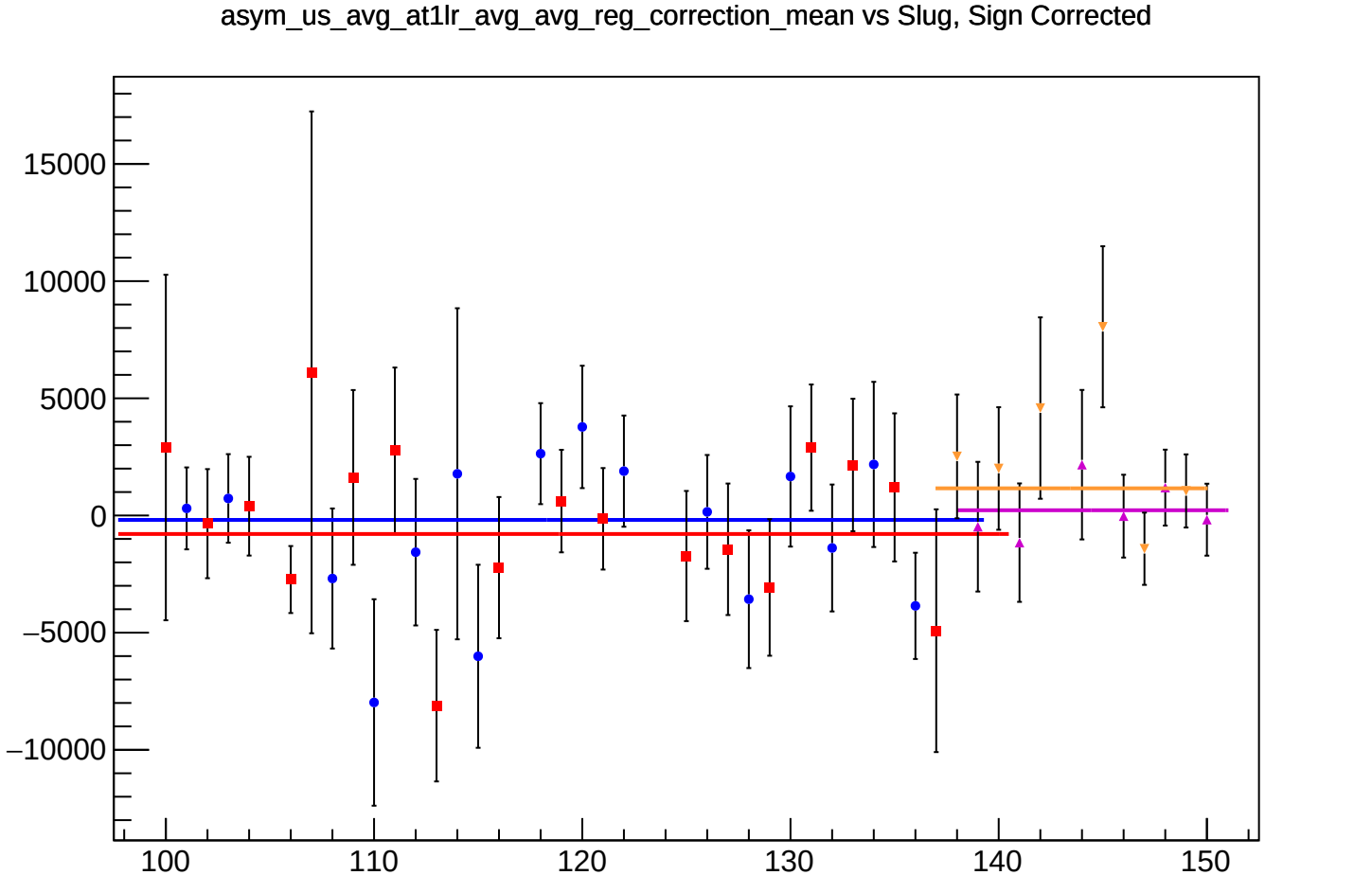
Left: 2186.474+/-0.494 $\chi^2$/NDF: 428.6/11

Right: 2321.844+/-0.437 $\chi^2$/NDF: 663951.9/33

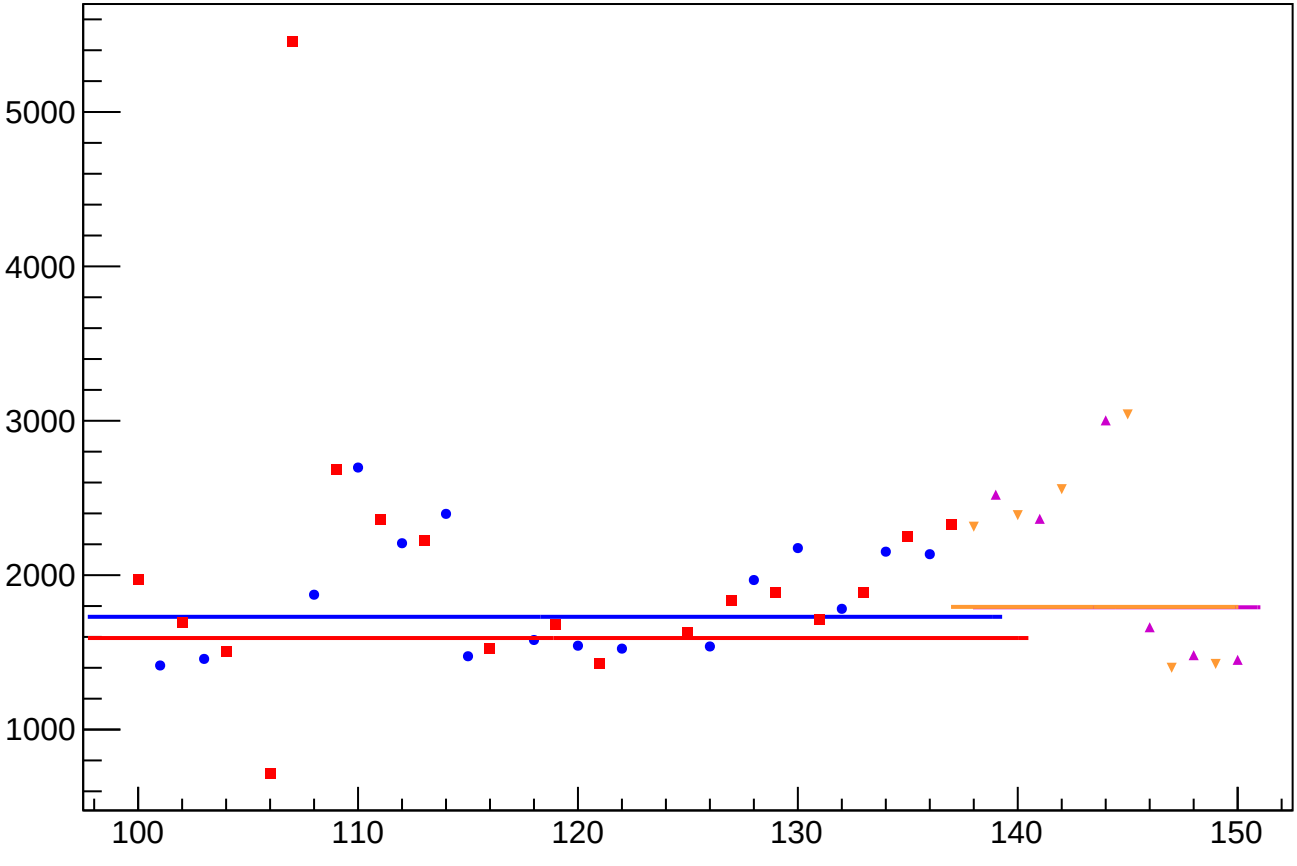
In: 2254.732+/-0.456 $\chi^2$/NDF:532191.6/21

Out: 2270.586+/-0.470 $\chi^2$/NDF:173803.7/23

All: 2262.415+/-0.327 $\chi^2$/NDF: 706582.4/45


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -188.660+/-658.334 χ²/NDF: 16.4/15
Left Out: 1159.180+/-886.350 χ²/NDF:8.0/5
Right Out: -789.317+/-634.900 χ²/NDF: 14.9/17
Left In: 223.411+/-813.362 χ²/NDF:1.2/5
Left: 651.186+/-599.278 χ²/NDF: 9.8/11
Right: -499.869+/-457.002 χ²/NDF: 31.8/33
In: -25.555+/-511.718 χ²/NDF:17.8/21
Out: -128.574+/-516.145 χ²/NDF:26.1/23
All: -76.621+/-363.394 χ²/NDF: 43.9/45

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1730.288+/-0.466 $\chi^2$/NDF: 478932.0/15

Left Out: 1794.524+/-0.627 $\chi^2$/NDF:764578.0/5

Right Out: 1592.824+/-0.449 $\chi^2$/NDF: 1556204.8/17

Left In: 1791.988+/-0.575 $\chi^2$/NDF:712421.9/5

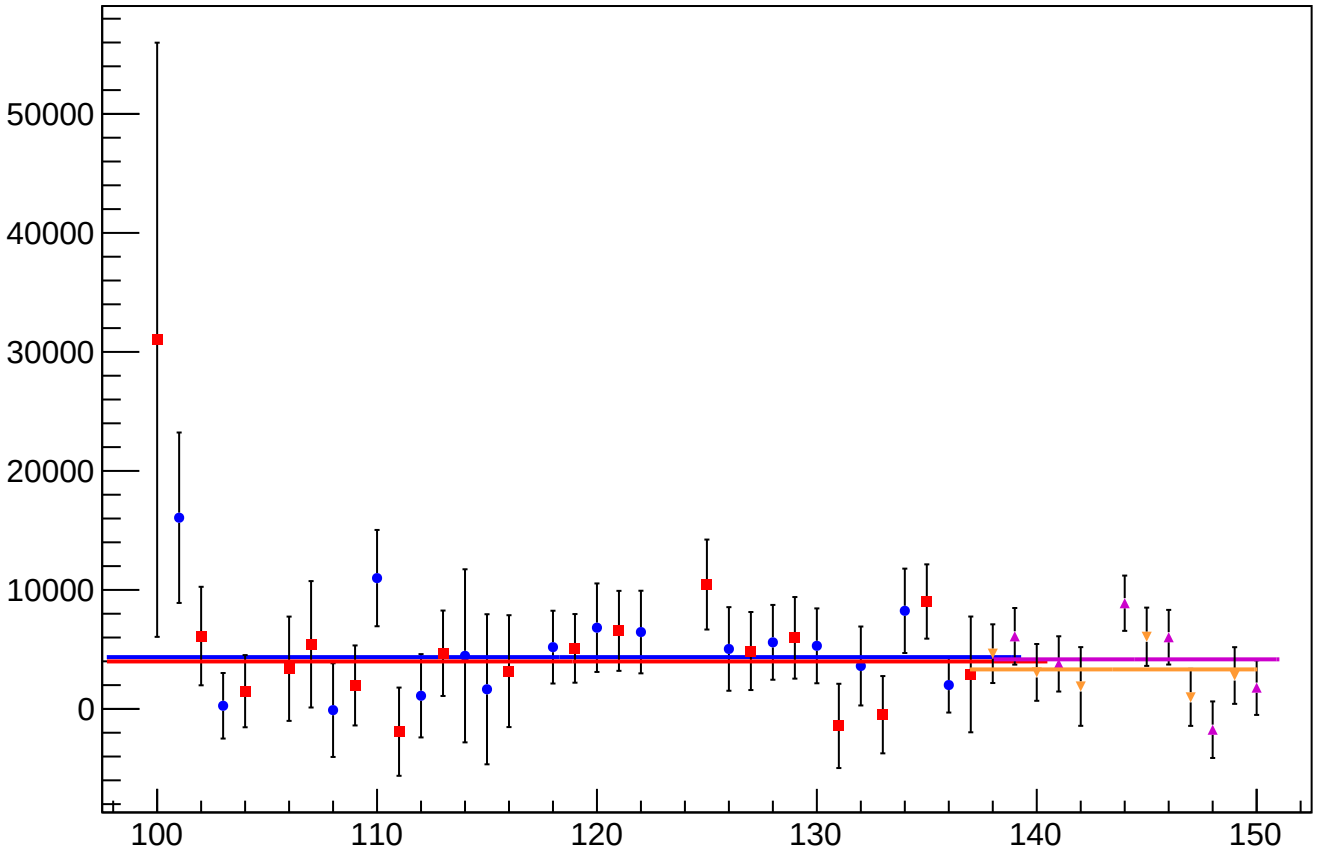
Left: 1793.147+/-0.424 $\chi^2$/NDF: 1477008.8/11

Right: 1659.066+/-0.323 $\chi^2$/NDF: 2080315.9/33

In: 1754.710+/-0.362 $\chi^2$/NDF:1198307.5/21

Out: 1661.221+/-0.365 $\chi^2$/NDF:2389231.0/23

All: 1708.368+/-0.257 $\chi^2$/NDF: 3620628.6/45




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3320.736+/-1026.737 $\chi^2$/NDF:2.8/5

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 4166.255+/-951.736 $\chi^2$/NDF:12.7/5

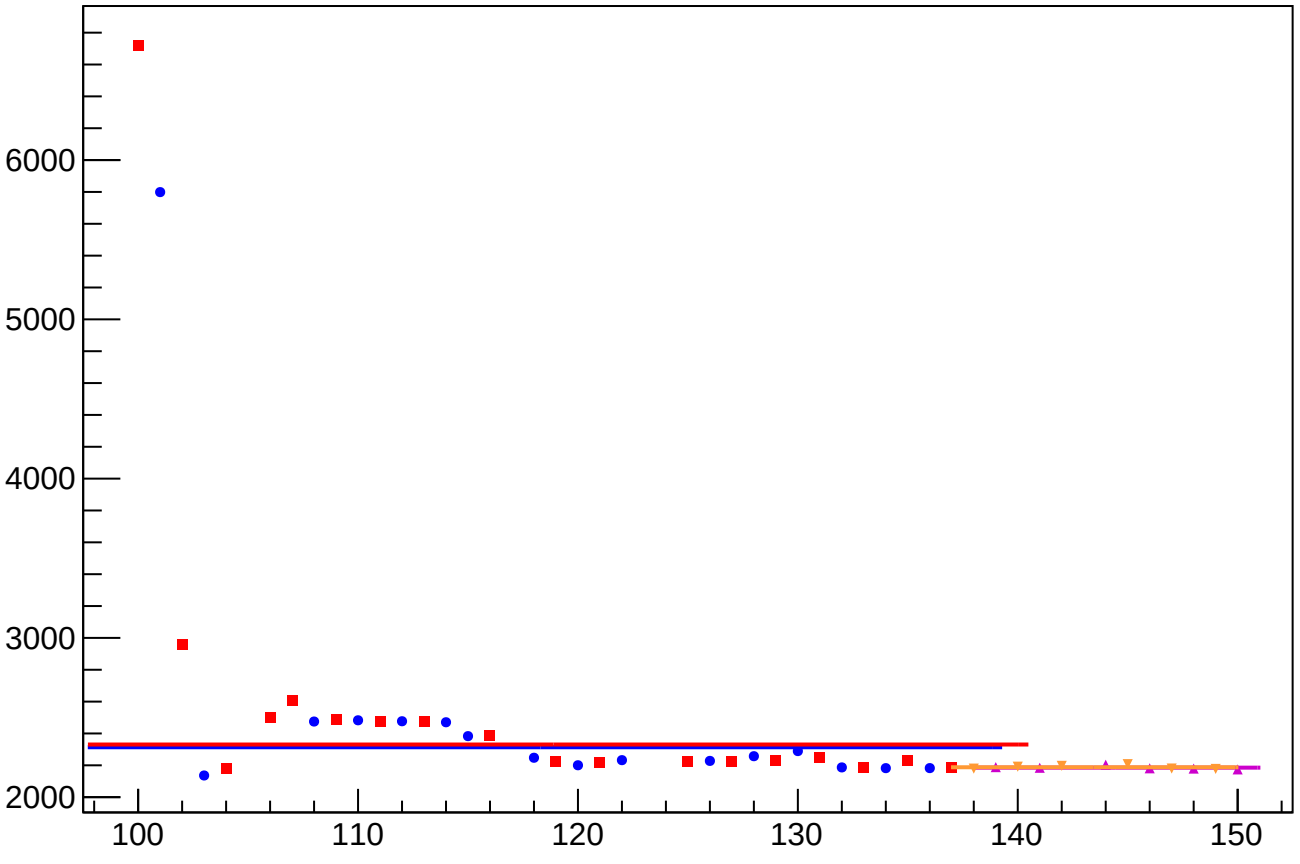
Left: 3775.502+/-697.989 $\chi^2$/NDF: 15.8/11

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4267.805+/-644.203 $\chi^2$/NDF:26.1/21

Out: 3709.686+/-664.402 $\chi^2$/NDF:19.1/23

All: 3997.358+/-462.496 $\chi^2$/NDF: 45.6/45




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2187.804+/-0.726 $\chi^2$/NDF:229.5/5

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2185.331+/-0.673 $\chi^2$/NDF:192.9/5

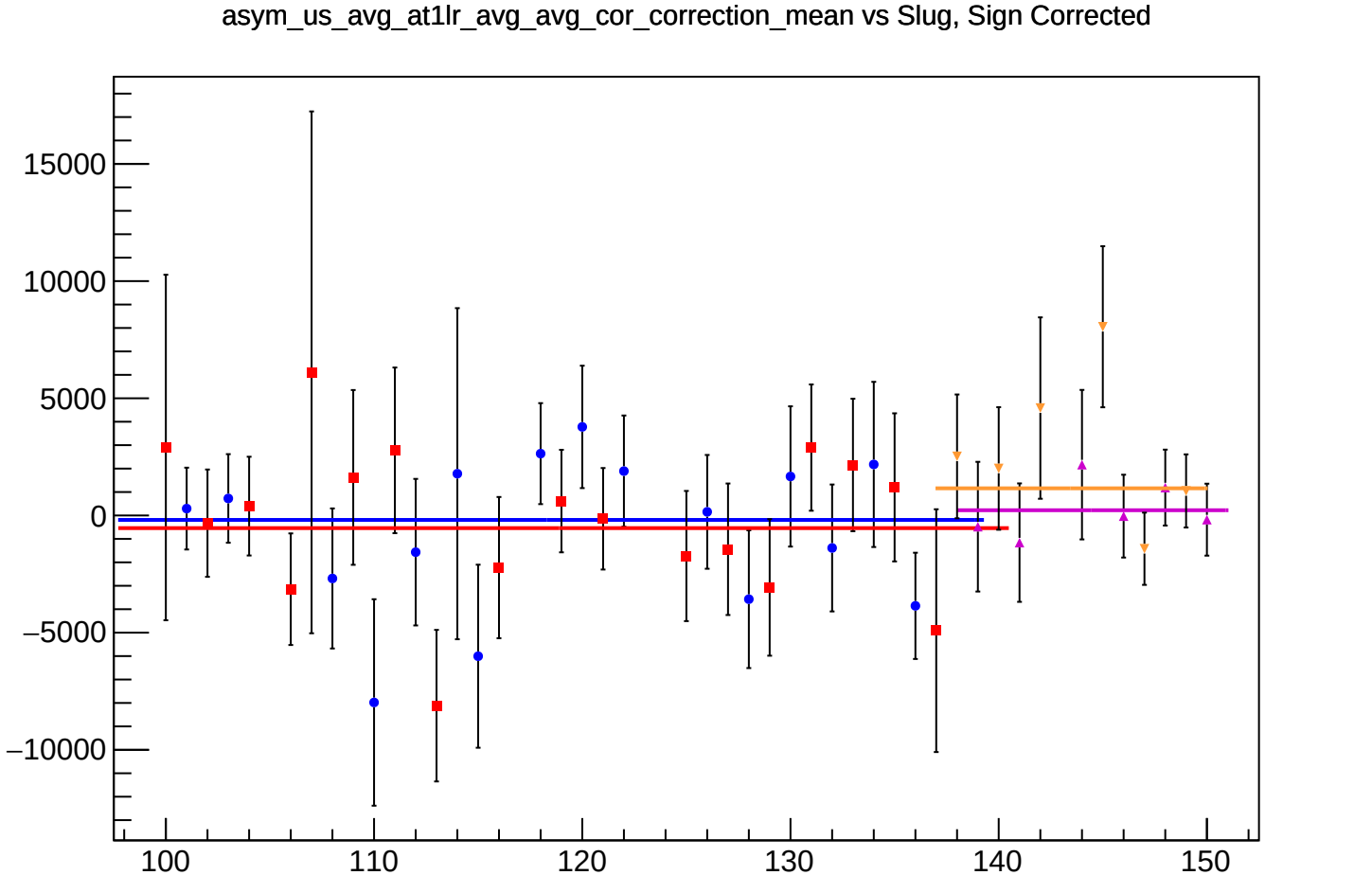
Left: 2186.474+/-0.494 $\chi^2$/NDF: 428.6/11

Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

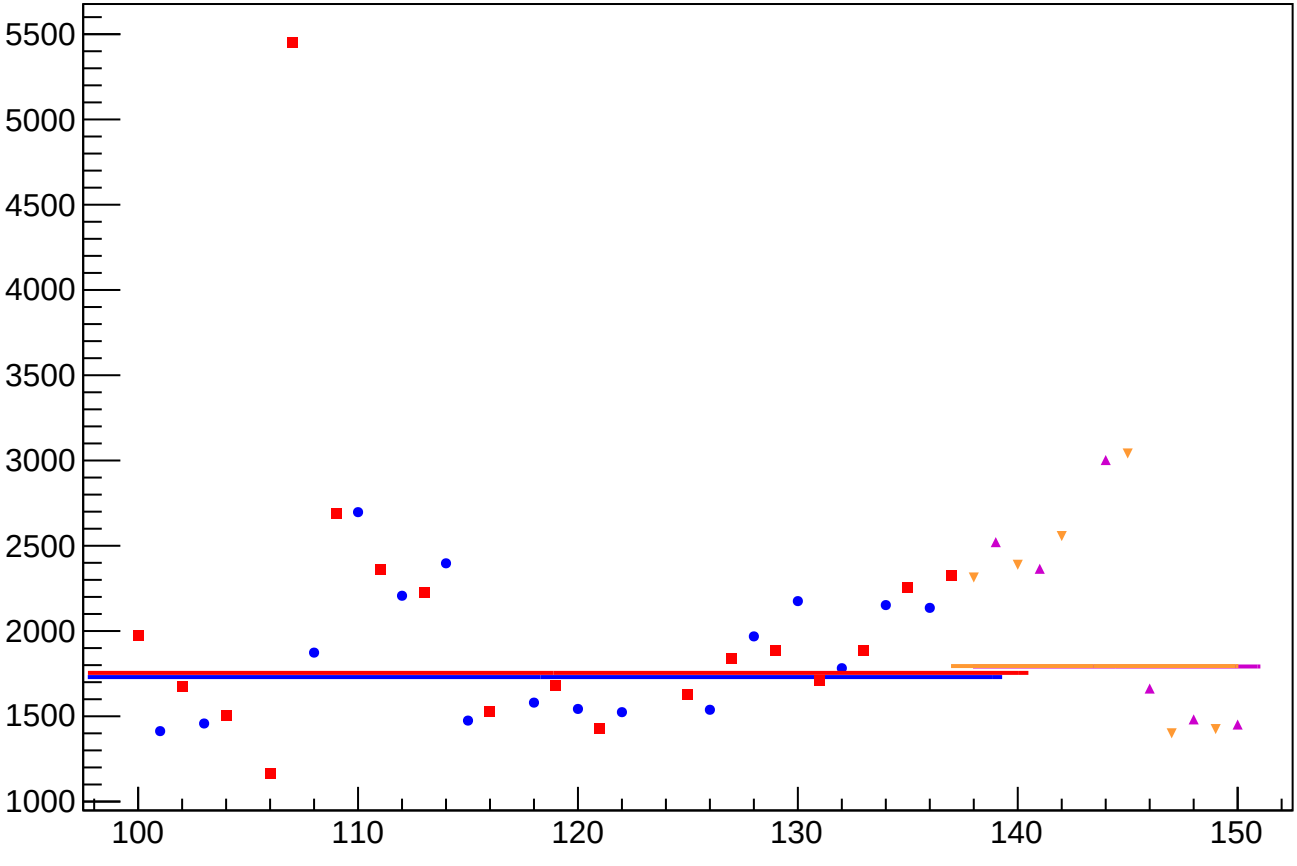
In: 2254.731+/-0.456 $\chi^2$/NDF:532192.1/21

Out: 2270.789+/-0.470 $\chi^2$/NDF:174262.7/23

All: 2262.512+/-0.327 $\chi^2$/NDF: 707056.9/45


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -189.762+/-658.205 χ²/NDF: 16.4/15
Left Out: 1158.763+/-886.347 χ²/NDF:8.0/5
Right Out: -539.517+/-678.214 χ²/NDF: 13.9/17
Left In: 223.521+/-813.363 χ²/NDF:1.2/5
Left: 651.057+/-599.278 χ²/NDF: 9.8/11
Right: -359.404+/-472.337 χ²/NDF: 30.5/33
In: -26.217+/-511.658 χ²/NDF:17.8/21
Out: 87.631+/-538.622 χ²/NDF:24.2/23
All: 27.786+/-370.963 χ²/NDF: 42.0/45

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1729.898+/-0.465 $\chi^2$/NDF: 479898.2/15

Left Out: 1794.516+/-0.627 $\chi^2$/NDF:764574.2/5

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 1791.991+/-0.575 $\chi^2$/NDF:712421.6/5

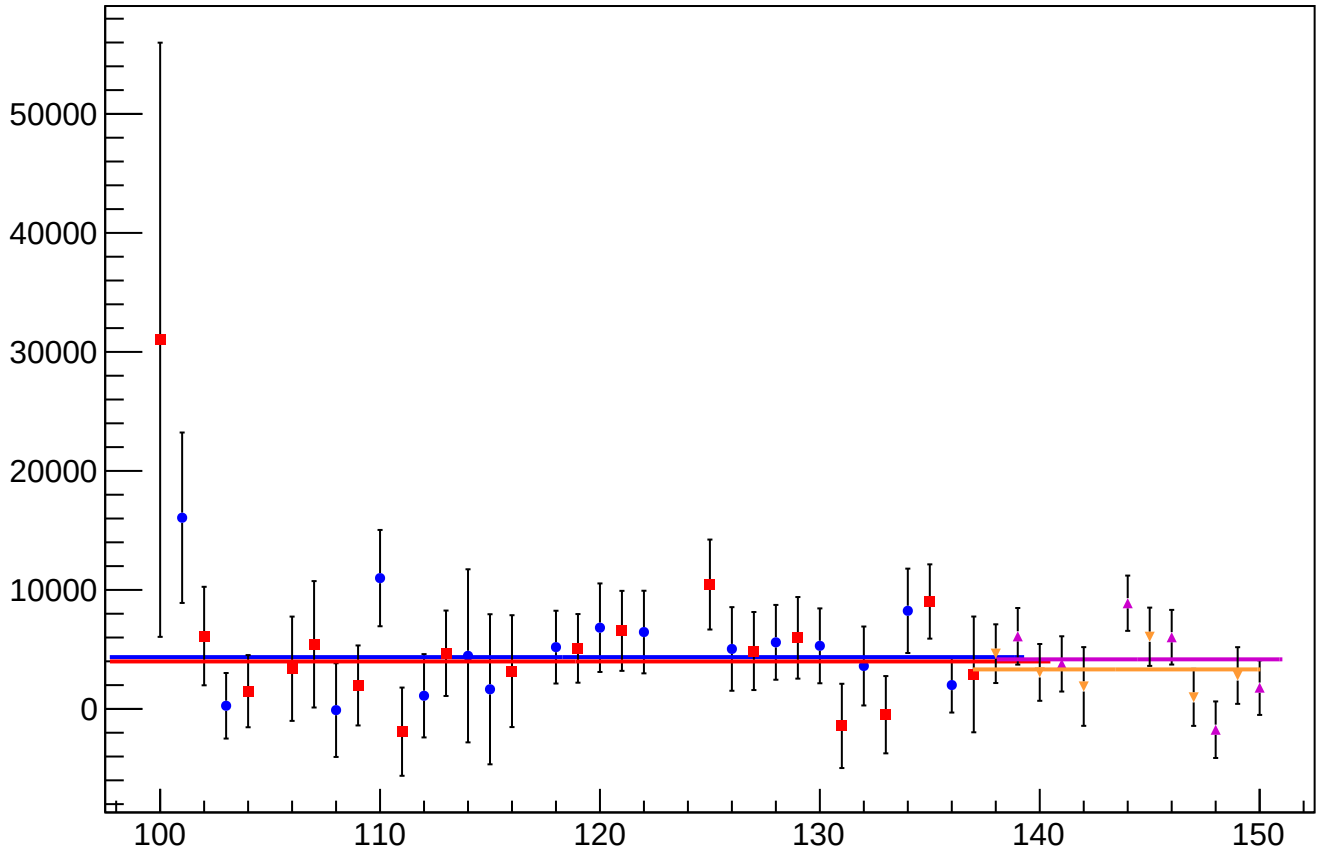
Left: 1793.145+/-0.424 $\chi^2$/NDF: 1477004.7/11

Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1754.470+/-0.362 $\chi^2$/NDF:1199363.1/21

Out: 1769.294+/-0.381 $\chi^2$/NDF:1518152.0/23

All: 1761.501+/-0.262 $\chi^2$/NDF: 2718311.5/45




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3320.736+/-1026.737 $\chi^2$/NDF:2.8/5

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 4166.255+/-951.736 $\chi^2$/NDF:12.7/5

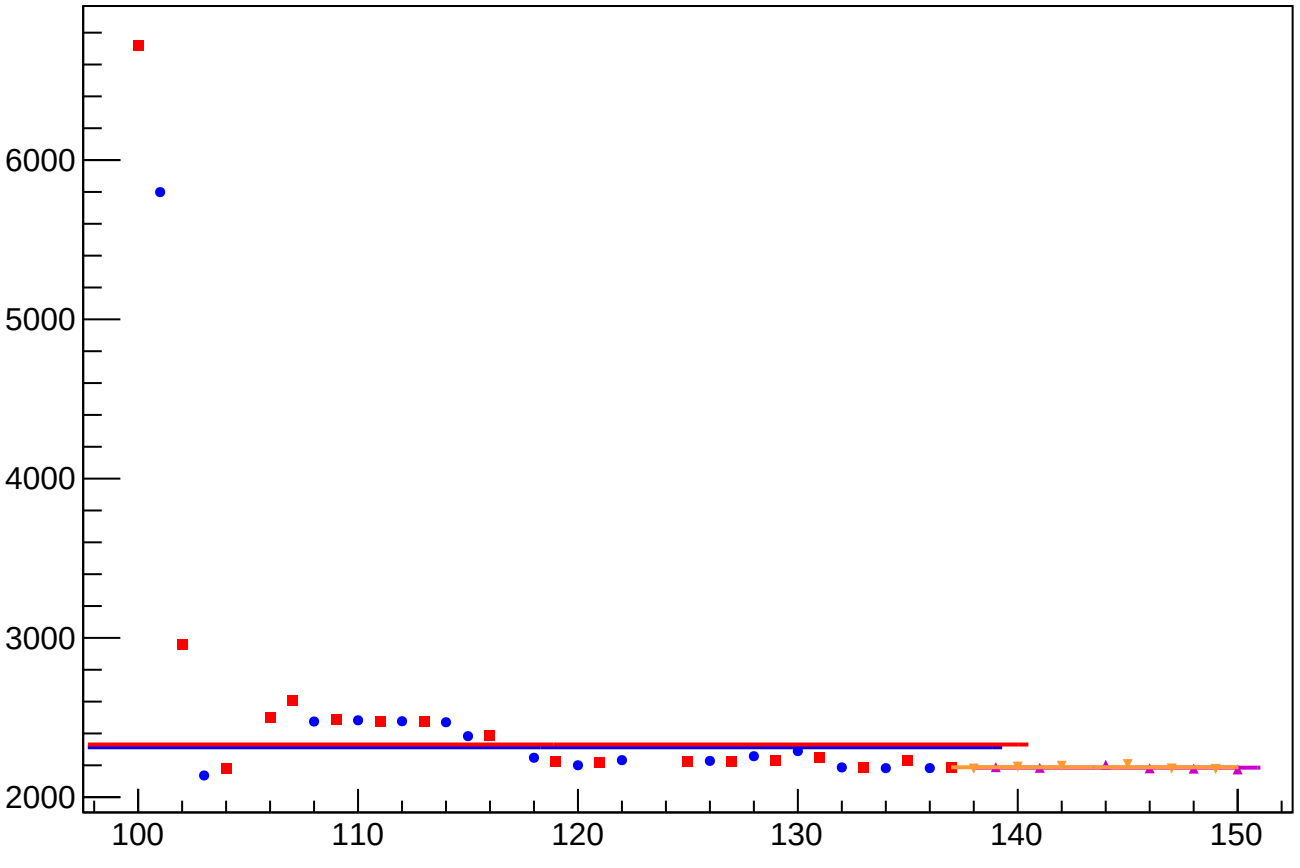
Left: 3775.502+/-697.989 $\chi^2$/NDF: 15.8/11

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4267.805+/-644.203 $\chi^2$/NDF:26.1/21

Out: 3709.686+/-664.402 $\chi^2$/NDF:19.1/23

All: 3997.358+/-462.496 $\chi^2$/NDF: 45.6/45




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2187.804+/-0.726 $\chi^2$/NDF:229.5/5

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2185.331+/-0.673 $\chi^2$/NDF:192.9/5

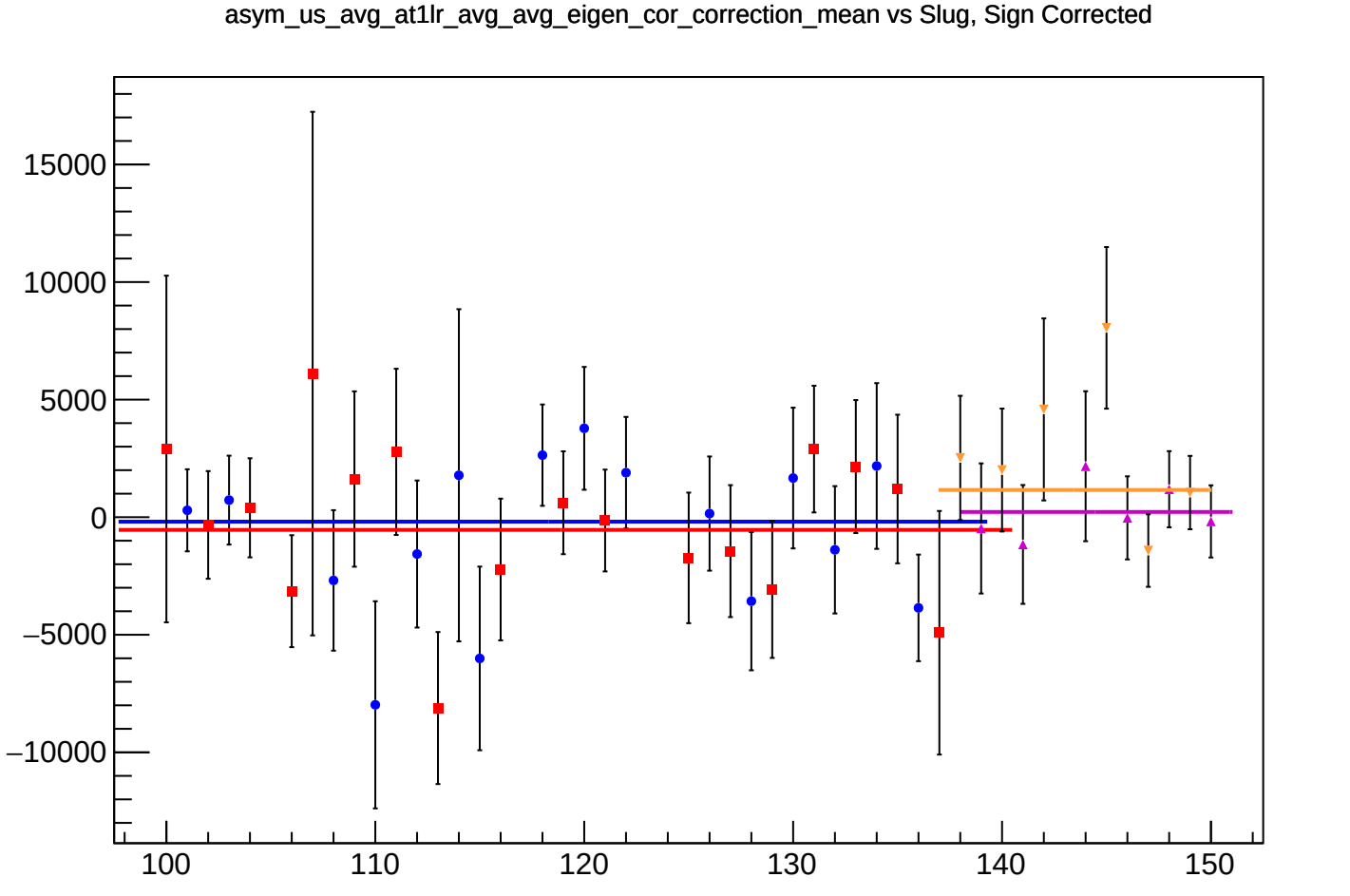
Left: 2186.474+/-0.494 $\chi^2$/NDF: 428.6/11

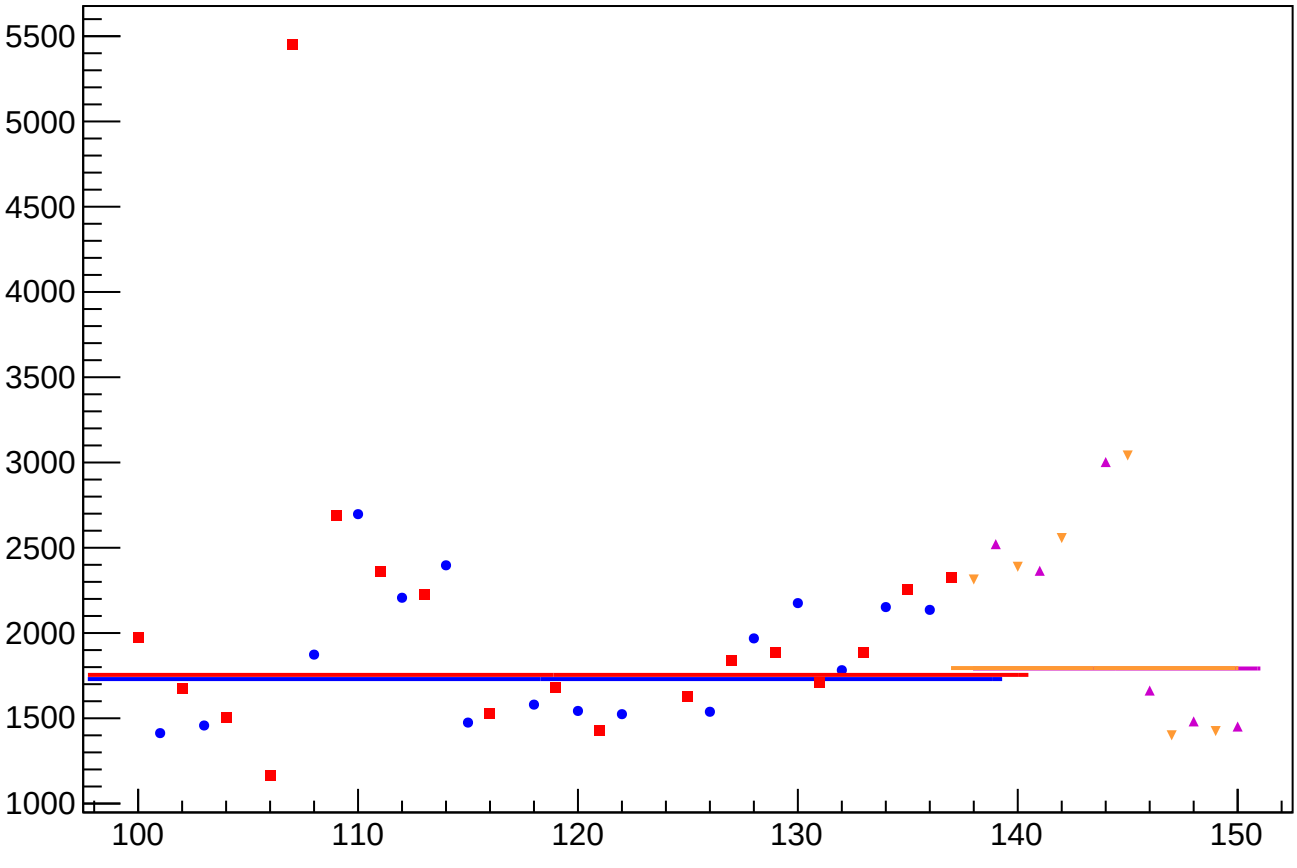
Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

In: 2254.731+/-0.456 $\chi^2$/NDF:532192.1/21

Out: 2270.789+/-0.470 $\chi^2$/NDF:174262.7/23

All: 2262.512+/-0.327 $\chi^2$/NDF: 707056.9/45


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -189.762+/-658.205 χ²/NDF: 16.4/15
Left Out: 1158.763+/-886.347 χ²/NDF:8.0/5
Right Out: -539.517+/-678.214 χ²/NDF: 13.9/17
Left In: 223.521+/-813.363 χ²/NDF:1.2/5
Left: 651.057+/-599.278 χ²/NDF: 9.8/11
Right: -359.404+/-472.337 χ²/NDF: 30.5/33
In: -26.217+/-511.658 χ²/NDF:17.8/21
Out: 87.631+/-538.622 χ²/NDF:24.2/23
All: 27.786+/-370.963 χ²/NDF: 42.0/45




Right In: 1729.898+/-0.465 $\chi^2$/NDF: 479898.2/15

Left Out: 1794.516+/-0.627 $\chi^2$/NDF:764574.2/5

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 1791.991+/-0.575 $\chi^2$/NDF:712421.6/5

Left: 1793.145+/-0.424 $\chi^2$/NDF: 1477004.7/11

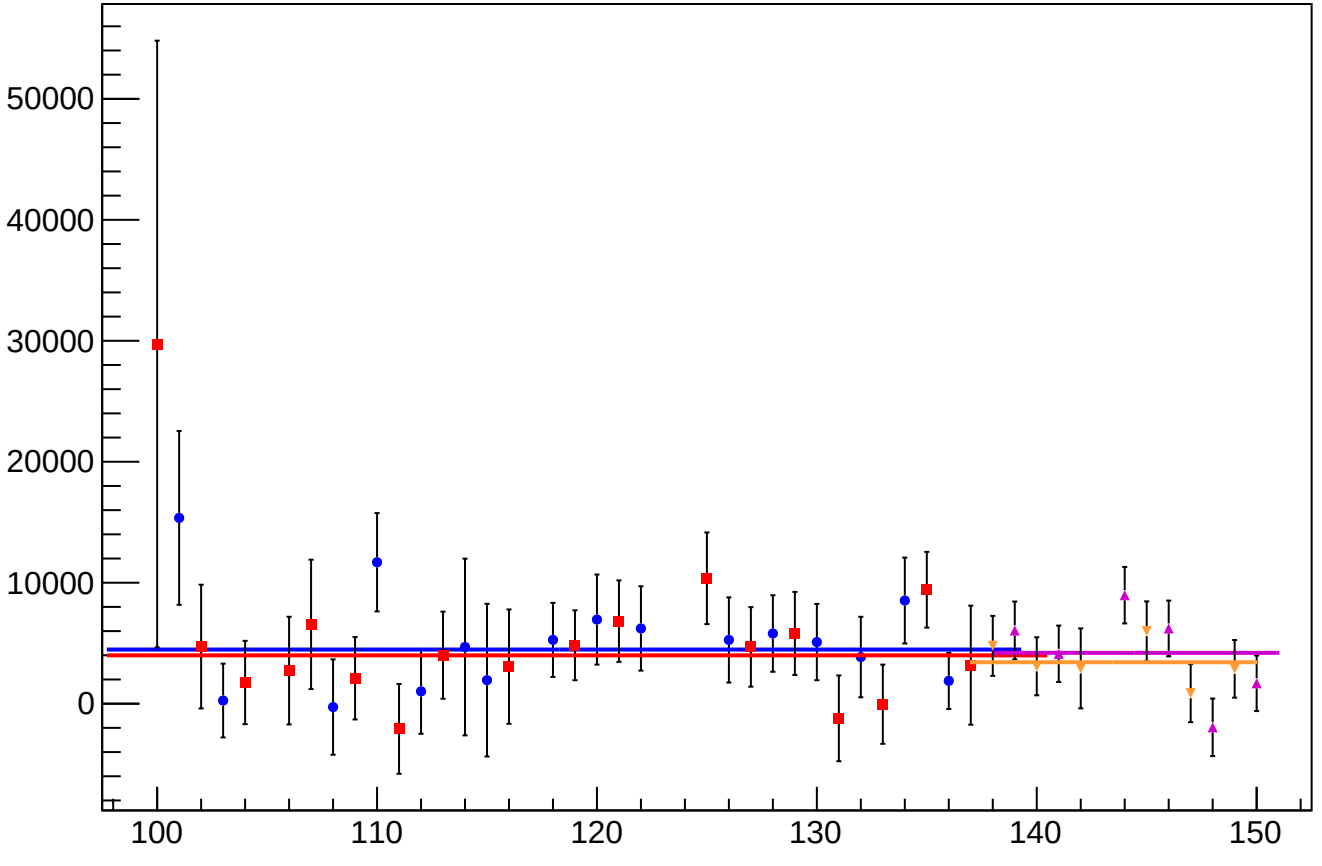
Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1754.470+/-0.362 $\chi^2$/NDF:1199363.1/21

Out: 1769.294+/-0.381 $\chi^2$/NDF:1518152.0/23

All: 1761.501+/-0.262 $\chi^2$/NDF: 2718311.5/45

dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected




Right In: 4476.431+/-886.087 $\chi^2$/NDF: 13.5/15

Left Out: 3426.580+/-1029.901 $\chi^2$/NDF:2.6/5

Right Out: 3995.807+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 4201.774+/-954.624 $\chi^2$/NDF:13.4/5

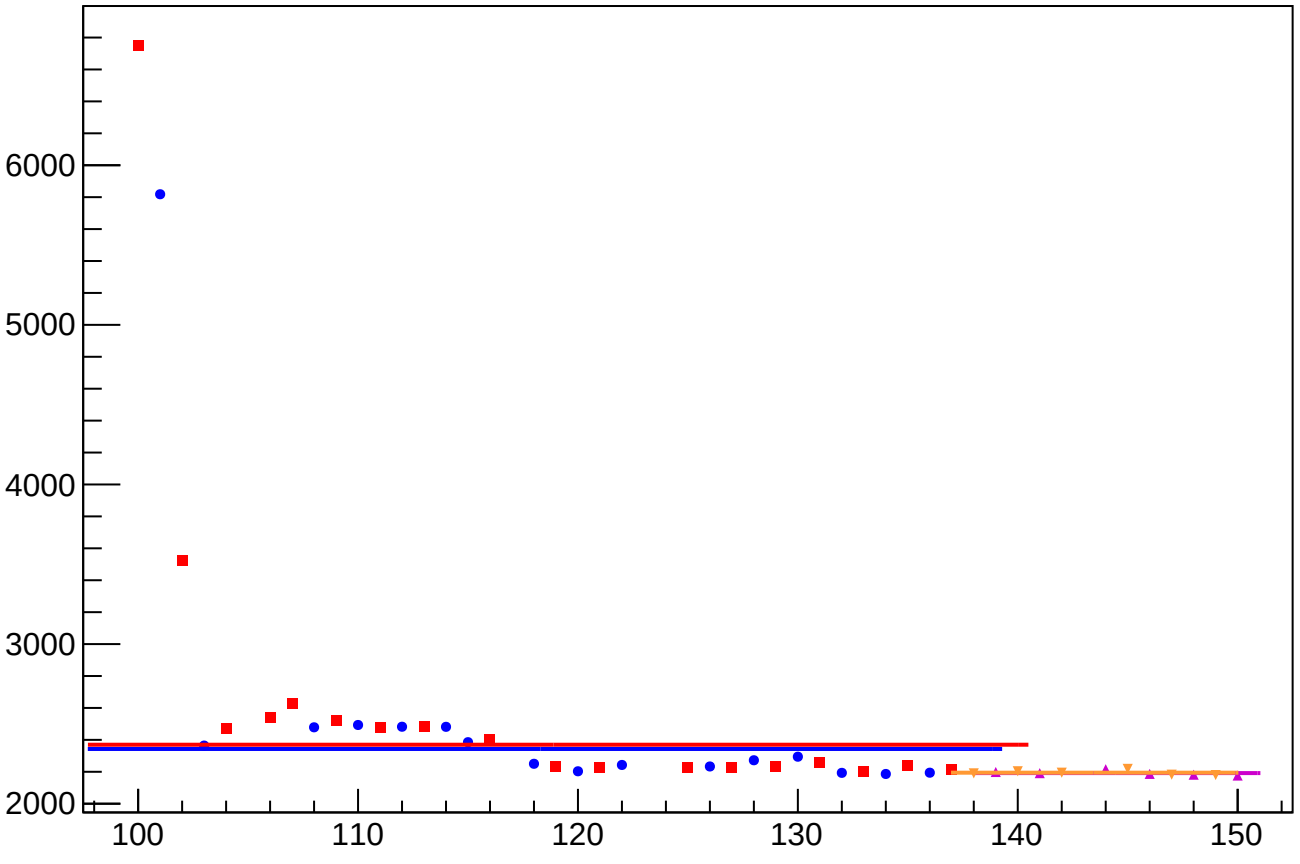
Left: 3843.539+/-700.122 $\chi^2$/NDF: 16.4/11

Right: 4237.297+/-628.092 $\chi^2$/NDF: 29.2/33

In: 4349.315+/-649.437 $\chi^2$/NDF:27.0/21

Out: 3752.315+/-673.589 $\chi^2$/NDF:18.3/23

All: 4061.709+/-467.527 $\chi^2$/NDF: 45.7/45




Right In: 2342.914+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2194.342+/-0.728 $\chi^2$/NDF:353.6/5

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210147.5/17

Left In: 2191.816+/-0.675 $\chi^2$/NDF:369.8/5

Left: 2192.983+/-0.495 $\chi^2$/NDF: 729.9/11

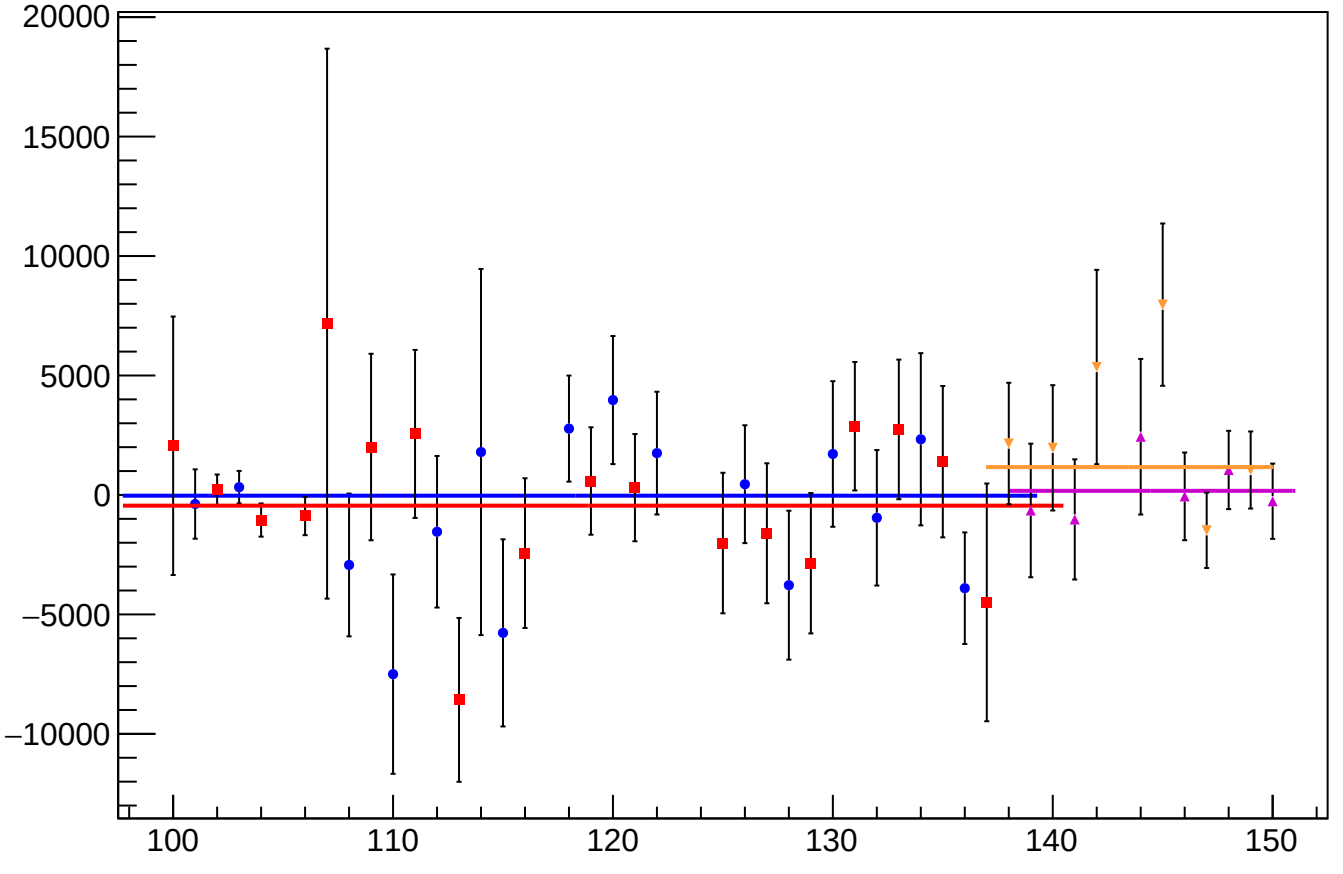
Right: 2356.178+/-0.444 $\chi^2$/NDF: 713914.5/33

In: 2272.983+/-0.459 $\chi^2$/NDF:530151.9/21

Out: 2294.616+/-0.476 $\chi^2$/NDF:243632.4/23

All: 2283.405+/-0.331 $\chi^2$/NDF: 774853.4/45

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -31.393+/-485.329 $\chi^2$/NDF: 16.3/15

Left Out: 1166.355+/-900.182 $\chi^2$/NDF:8.1/5

Right Out: -448.261+/-362.570 $\chi^2$/NDF: 15.1/17

Left In: 172.751+/-829.759 $\chi^2$/NDF:1.2/5

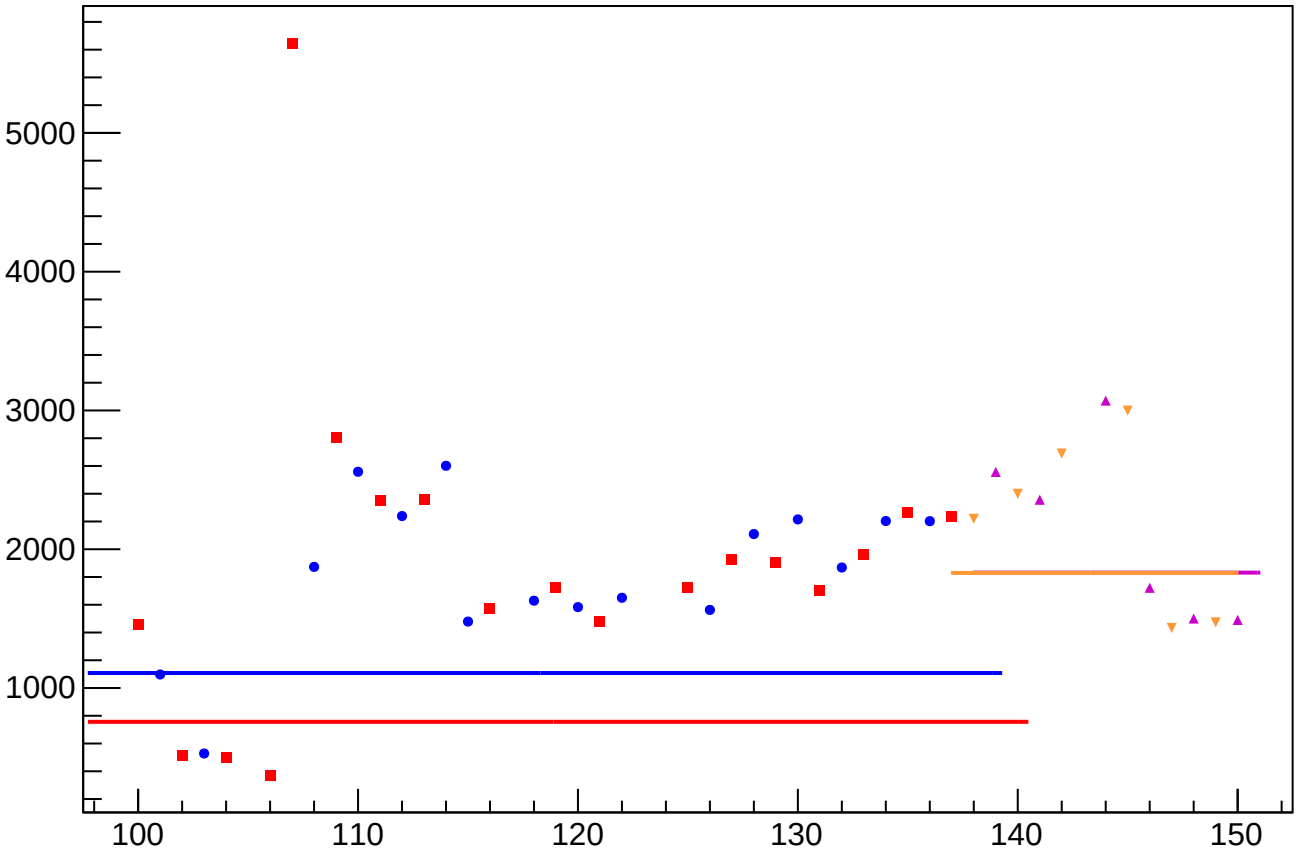
Left: 629.172+/-610.107 $\chi^2$/NDF: 10.0/11

Right: -298.942+/-290.465 $\chi^2$/NDF: 31.9/33

In: 20.644+/-418.930 $\chi^2$/NDF:17.5/21

Out: -222.888+/-336.315 $\chi^2$/NDF:26.0/23

All: -127.446+/-262.260 $\chi^2$/NDF: 43.7/45




Right In: 1108.139+/-0.343 $\chi^2$/NDF: 3746477.0/15

Left Out: 1829.315+/-0.637 $\chi^2$/NDF:691989.2/5

Right Out: 756.419+/-0.256 $\chi^2$/NDF: 5603215.5/17

Left In: 1831.467+/-0.587 $\chi^2$/NDF:694071.3/5

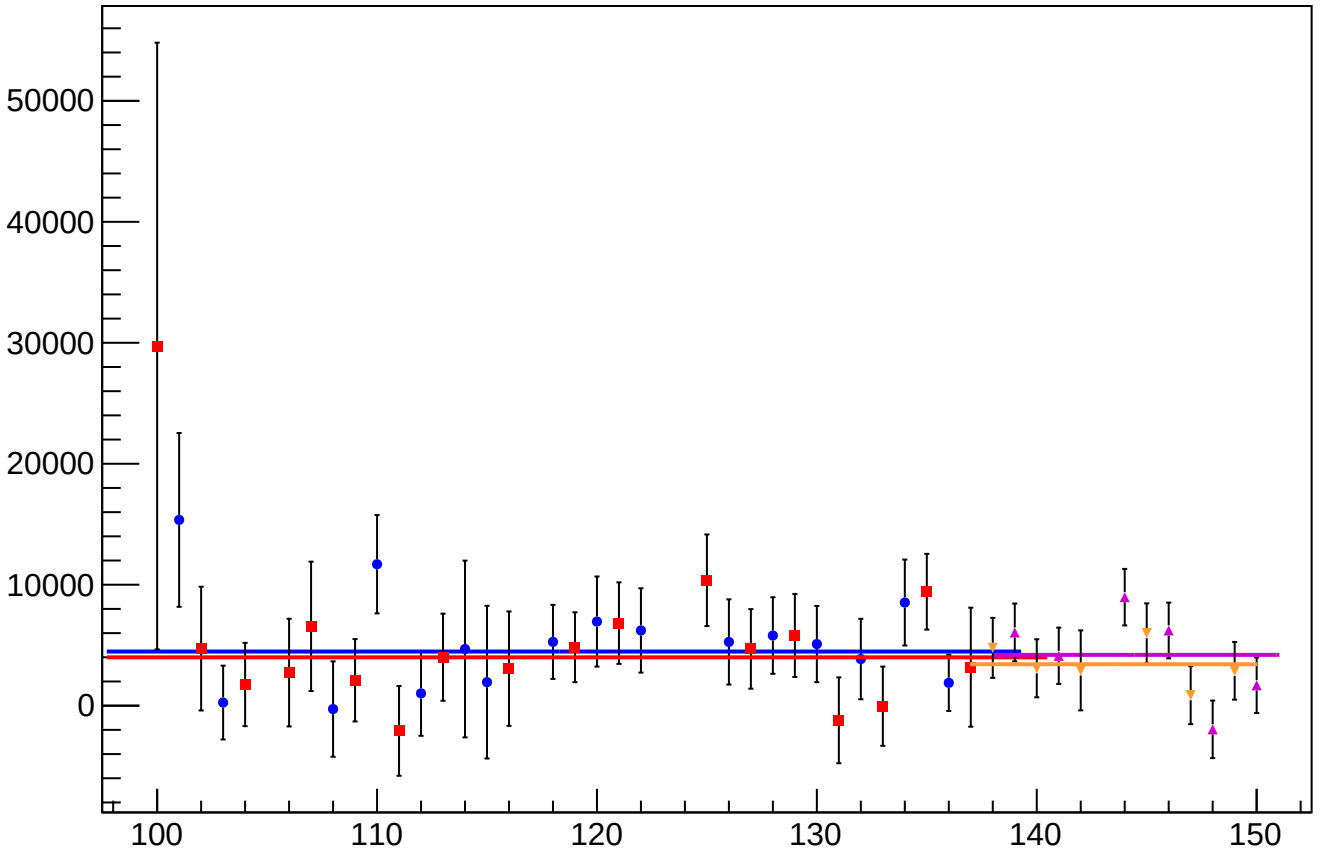
Left: 1830.479+/-0.431 $\chi^2$/NDF: 1386066.7/11

Right: 882.403+/-0.205 $\chi^2$/NDF: 10023844.2/33

In: 1292.520+/-0.296 $\chi^2$/NDF:5572970.4/21

Out: 906.177+/-0.238 $\chi^2$/NDF:8739726.3/23

All: 1057.587+/-0.185 $\chi^2$/NDF: 15347036.3/4




Right In: 4476.427+/-886.086 $\chi^2$/NDF: 13.5/15

Left Out: 3426.585+/-1029.901 $\chi^2$/NDF:2.6/5

Right Out: 3995.803+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 4201.775+/-954.624 $\chi^2$/NDF:13.4/5

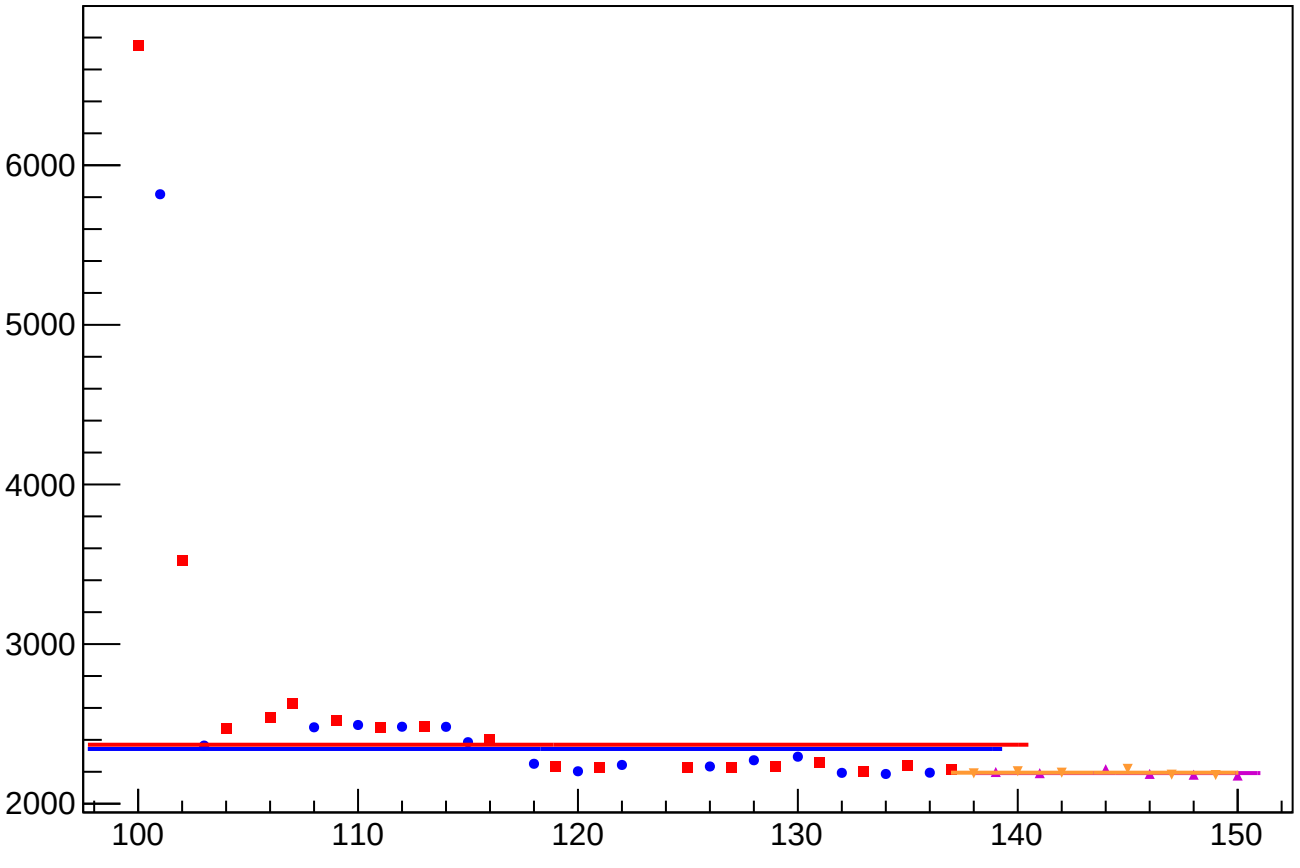
Left: 3843.542+/-700.122 $\chi^2$/NDF: 16.4/11

Right: 4237.293+/-628.092 $\chi^2$/NDF: 29.2/33

In: 4349.313+/-649.437 $\chi^2$/NDF:27.0/21

Out: 3752.315+/-673.589 $\chi^2$/NDF:18.3/23

All: 4061.709+/-467.526 $\chi^2$/NDF: 45.7/45




Right In: 2342.913+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2194.342+/-0.728 $\chi^2$/NDF:353.6/5

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210146.5/17

Left In: 2191.816+/-0.675 $\chi^2$/NDF:369.8/5

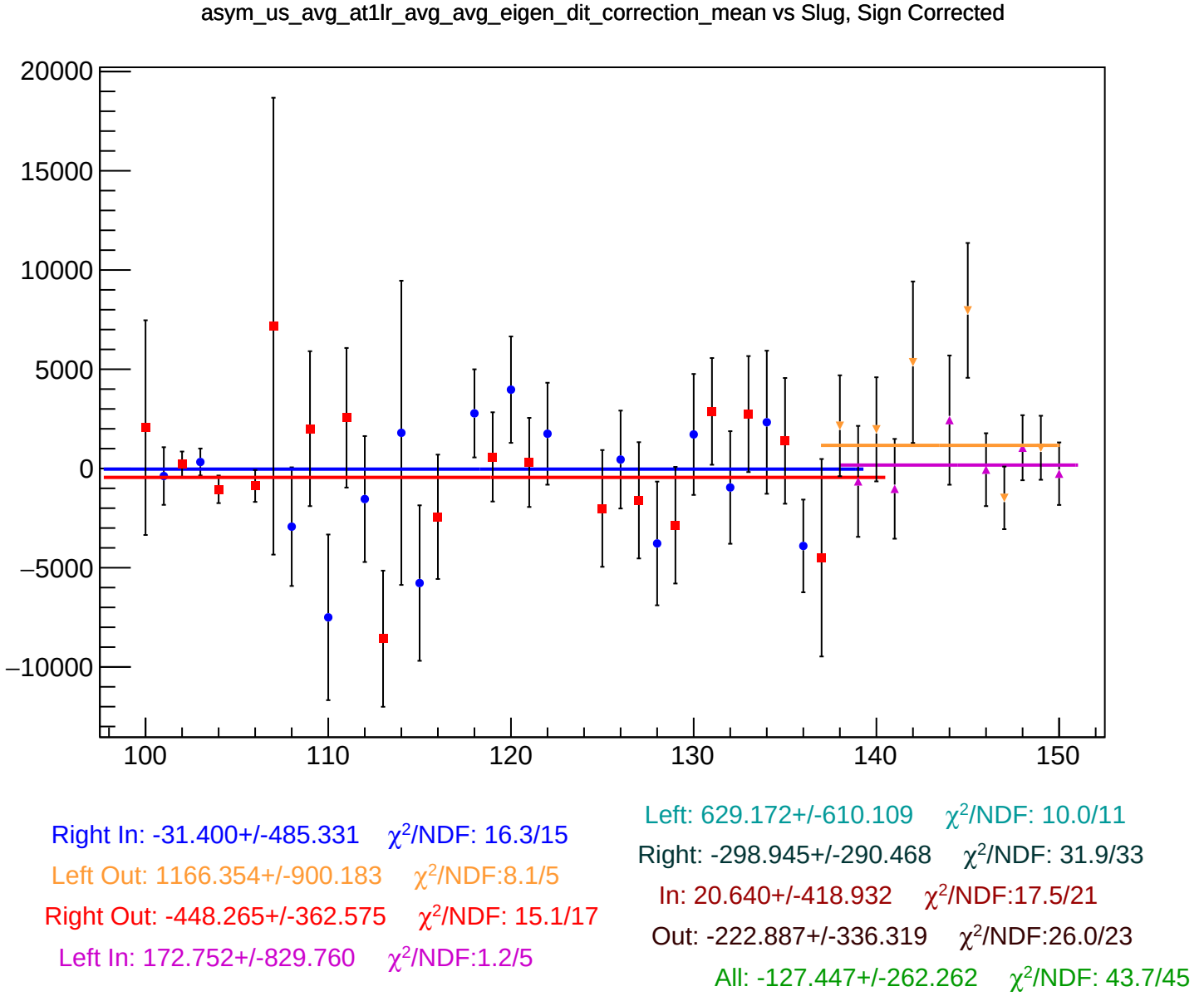
Left: 2192.983+/-0.495 $\chi^2$/NDF: 729.9/11

Right: 2356.177+/-0.444 $\chi^2$/NDF: 713913.5/33

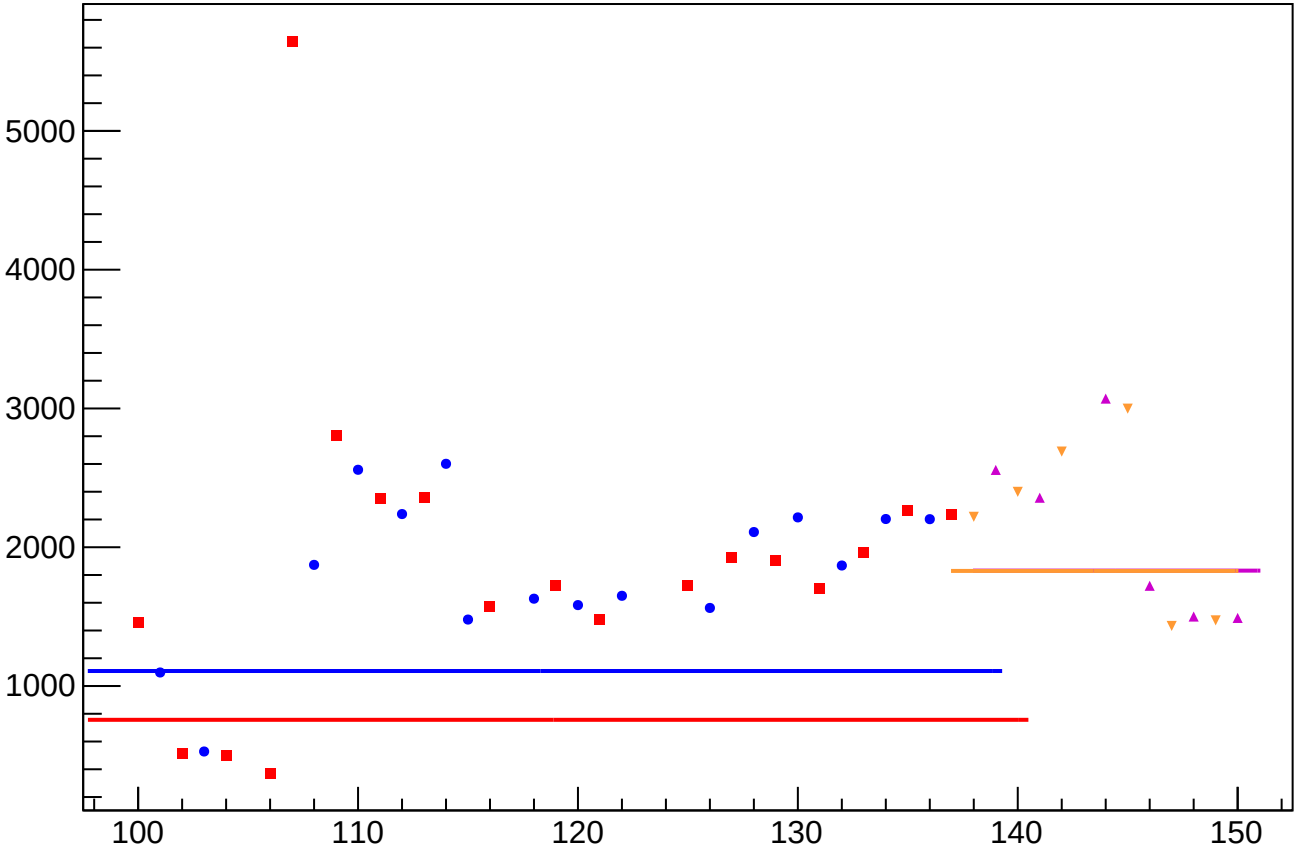
In: 2272.983+/-0.459 $\chi^2$/NDF:530151.8/21

Out: 2294.616+/-0.476 $\chi^2$/NDF:243631.1/23

All: 2283.405+/-0.331 $\chi^2$/NDF: 774852.0/45


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -31.400+/-485.331 χ²/NDF: 16.3/15
Left Out: 1166.354+/-900.183 χ²/NDF:8.1/5
Right Out: -448.265+/-362.575 χ²/NDF: 15.1/17
Left In: 172.752+/-829.760 χ²/NDF:1.2/5
Left: 629.172+/-610.109 χ²/NDF: 10.0/11
Right: -298.945+/-290.468 χ²/NDF: 31.9/33
In: 20.640+/-418.932 χ²/NDF:17.5/21
Out: -222.887+/-336.319 χ²/NDF:26.0/23
All: -127.447+/-262.262 χ²/NDF: 43.7/45

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1108.149+/-0.343 $\chi^2$/NDF: 3746402.0/15

Left Out: 1829.318+/-0.637 $\chi^2$/NDF:691989.3/5

Right Out: 756.434+/-0.256 $\chi^2$/NDF: 5603097.5/17

Left In: 1831.471+/-0.587 $\chi^2$/NDF:694071.0/5

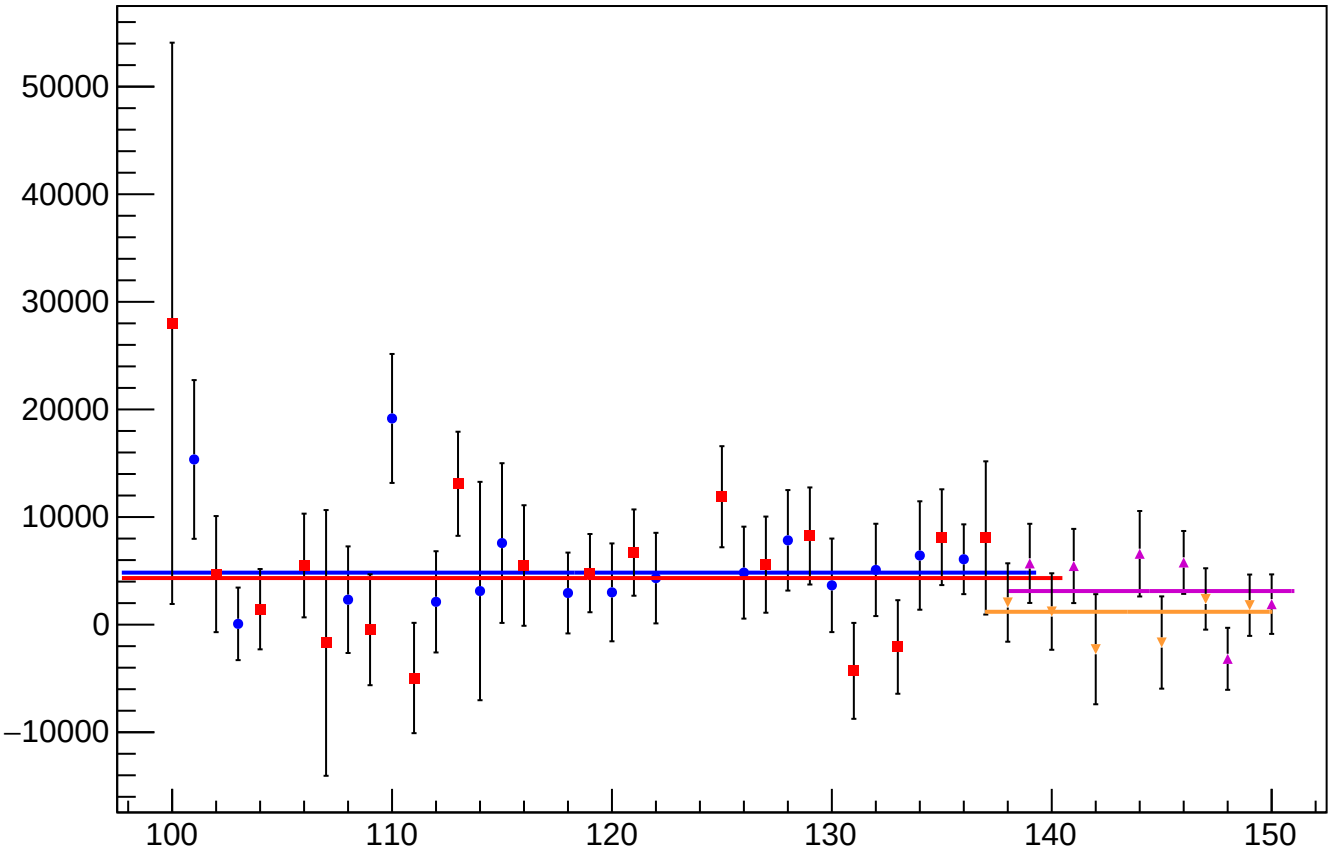
Left: 1830.482+/-0.431 $\chi^2$/NDF: 1386066.5/11

Right: 882.417+/-0.205 $\chi^2$/NDF: 10023620.2/33

In: 1292.529+/-0.296 $\chi^2$/NDF:5572868.8/21

Out: 906.193+/-0.238 $\chi^2$/NDF:8739537.4/23

All: 1057.602+/-0.185 $\chi^2$/NDF: 15346692.5/4




Right In: 4833.806+/-1142.535 $\chi^2$/NDF: 11.7/15

Left Out: 1195.674+/-1424.075 $\chi^2$/NDF:1.2/5

Right Out: 4328.601+/-1144.541 $\chi^2$/NDF: 19.9/17

Left In: 3121.753+/-1302.183 $\chi^2$/NDF:7.5/5

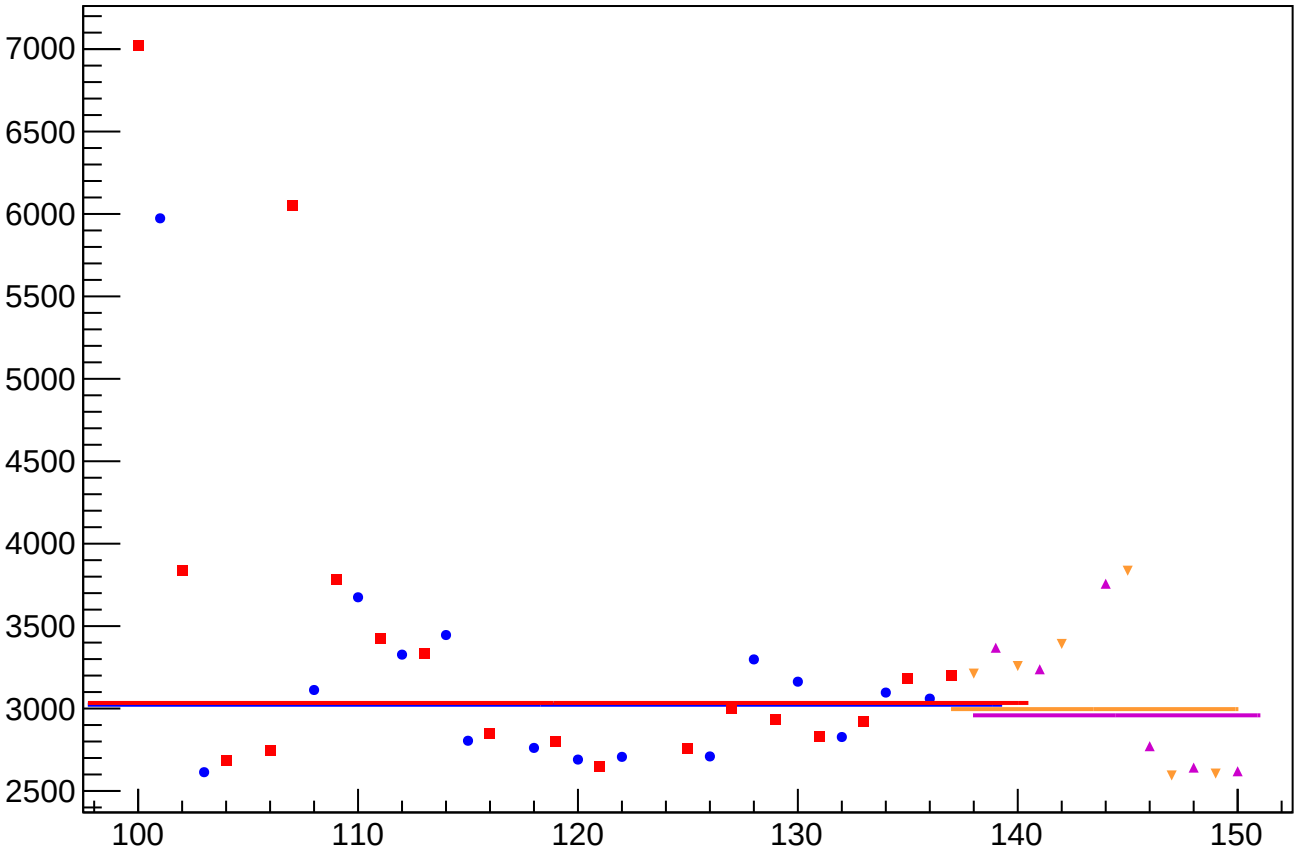
Left: 2244.657+/-960.991 $\chi^2$/NDF: 9.7/11

Right: 4581.647+/-808.603 $\chi^2$/NDF: 31.7/33

In: 4089.108+/-858.823 $\chi^2$/NDF:20.2/21

Out: 3099.092+/-892.120 $\chi^2$/NDF:24.0/23

All: 3612.920+/-618.716 $\chi^2$/NDF: 44.8/45




Right In: 3023.068+/-0.808 $\chi^2$/NDF: 443705.8/15

Left Out: 2996.514+/-1.007 $\chi^2$/NDF:183858.5/5

Right Out: 3033.869+/-0.809 $\chi^2$/NDF: 342674.7/17

Left In: 2958.785+/-0.921 $\chi^2$/NDF:181281.8/5

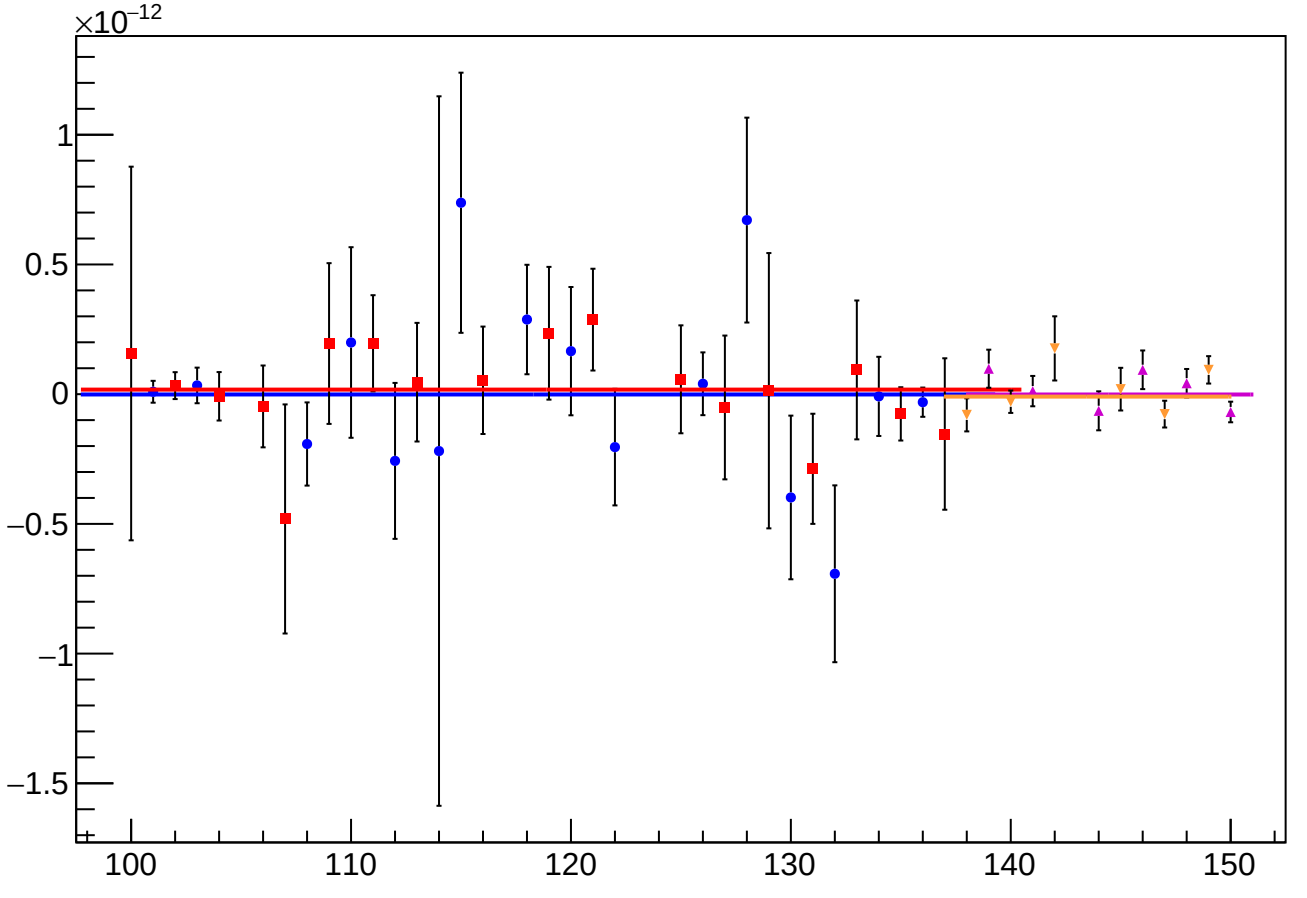
Left: 2975.966+/-0.680 $\chi^2$/NDF: 365904.9/11

Right: 3028.459+/-0.572 $\chi^2$/NDF: 786469.7/33

In: 2995.107+/-0.607 $\chi^2$/NDF:627741.5/21

Out: 3019.209+/-0.631 $\chi^2$/NDF:527369.3/23

All: 3006.700+/-0.437 $\chi^2$/NDF: 1155868.5/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.7/5

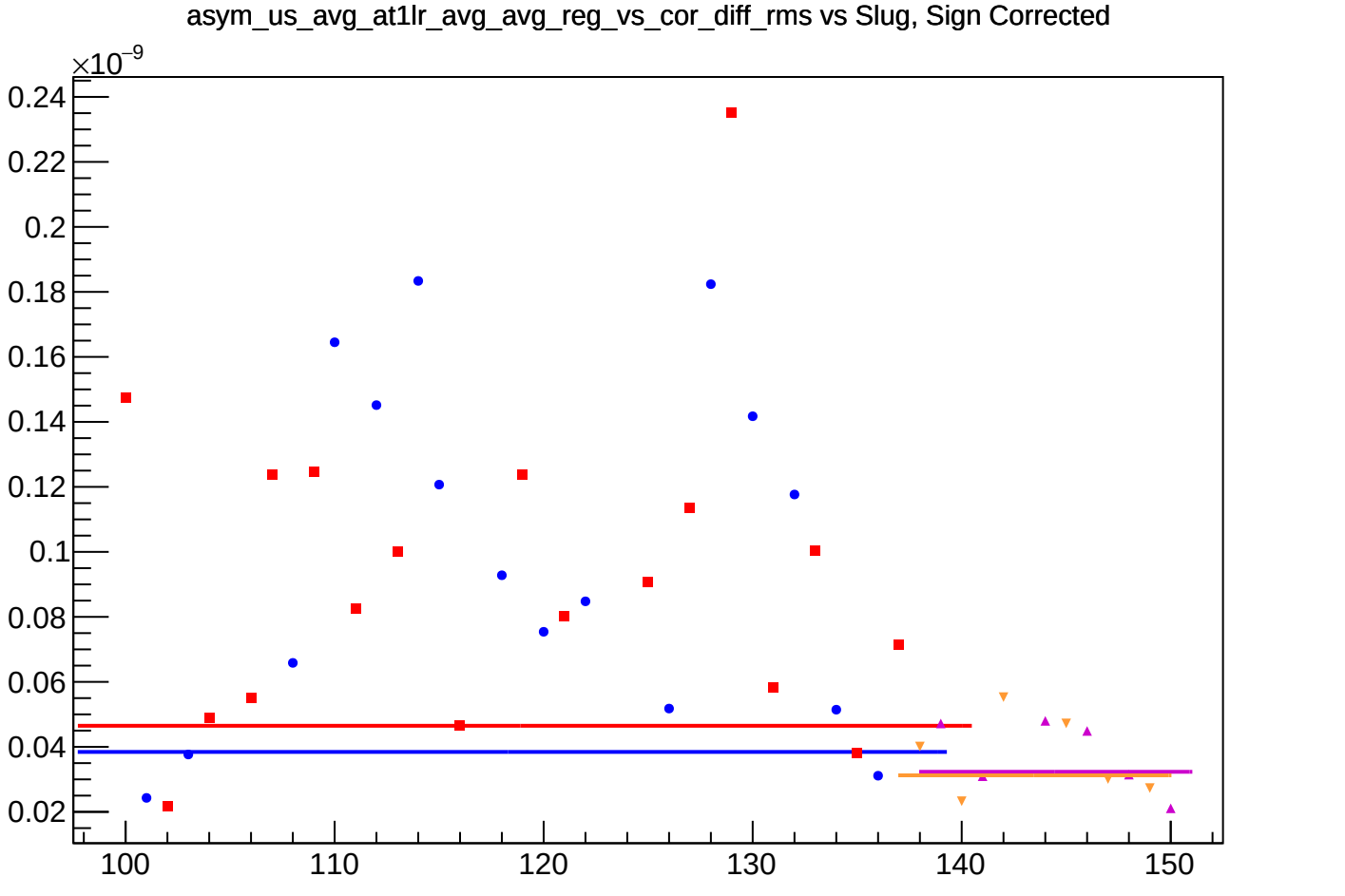
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.1/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/33

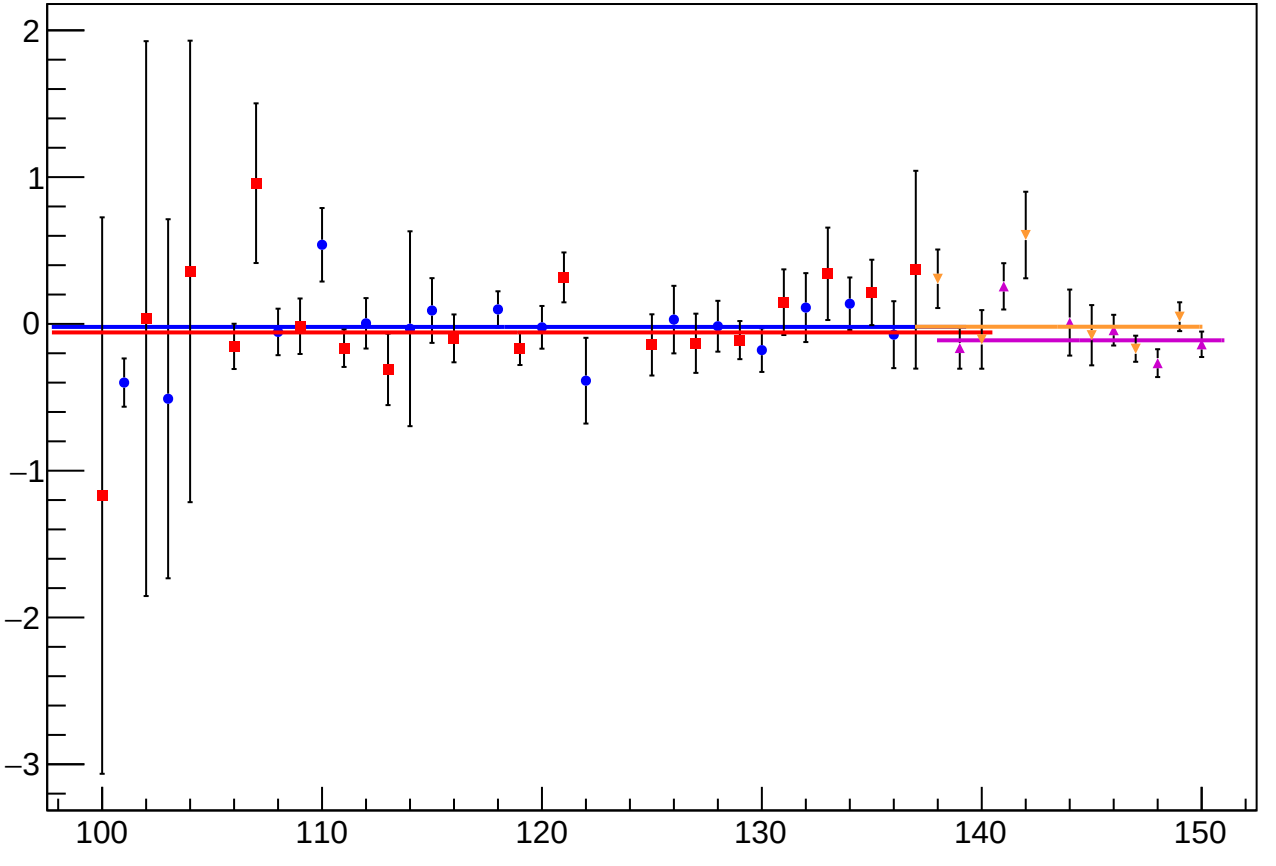
In: -0.000+/-0.000 $\chi^2$/NDF:24.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:18.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 43.5/45


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1771405.2/15
Left Out: 0.000+/-0.000 χ²/NDF:270024.3/5
Right Out: 0.000+/-0.000 χ²/NDF: 1697135.5/17
Left In: 0.000+/-0.000 χ²/NDF:387679.3/5
Left: 0.000+/-0.000 χ²/NDF: 659784.8/11
Right: 0.000+/-0.000 χ²/NDF: 3535596.3/33
In: 0.000+/-0.000 χ²/NDF:2216709.1/21
Out: 0.000+/-0.000 χ²/NDF:2230087.7/23
All: 0.000+/-0.000 χ²/NDF: 4451428.9/45

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.019+/-0.056 $\chi^2$/NDF:10.8/5

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.112+/-0.047 $\chi^2$/NDF:9.1/5

Left: -0.073+/-0.036 $\chi^2$/NDF: 21.4/11

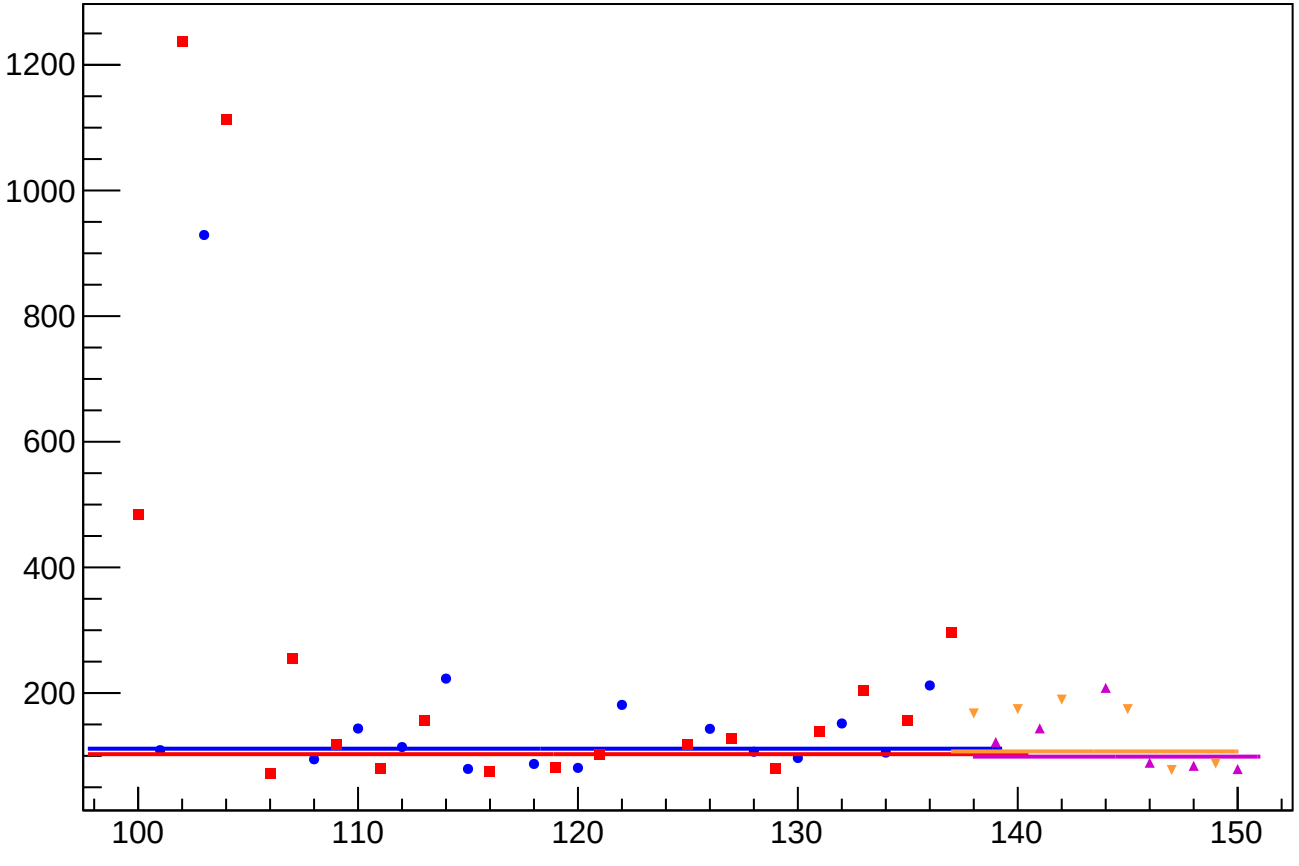
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.066+/-0.034 $\chi^2$/NDF:26.6/21

Out: -0.042+/-0.036 $\chi^2$/NDF:27.9/23

All: -0.055+/-0.024 $\chi^2$/NDF: 54.7/45

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.407+/-0.034 $\chi^2$/NDF: 1839361.2/15

Left Out: 107.067+/-0.040 $\chi^2$/NDF:1081398.1/5

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 98.794+/-0.034 $\chi^2$/NDF:859300.3/5

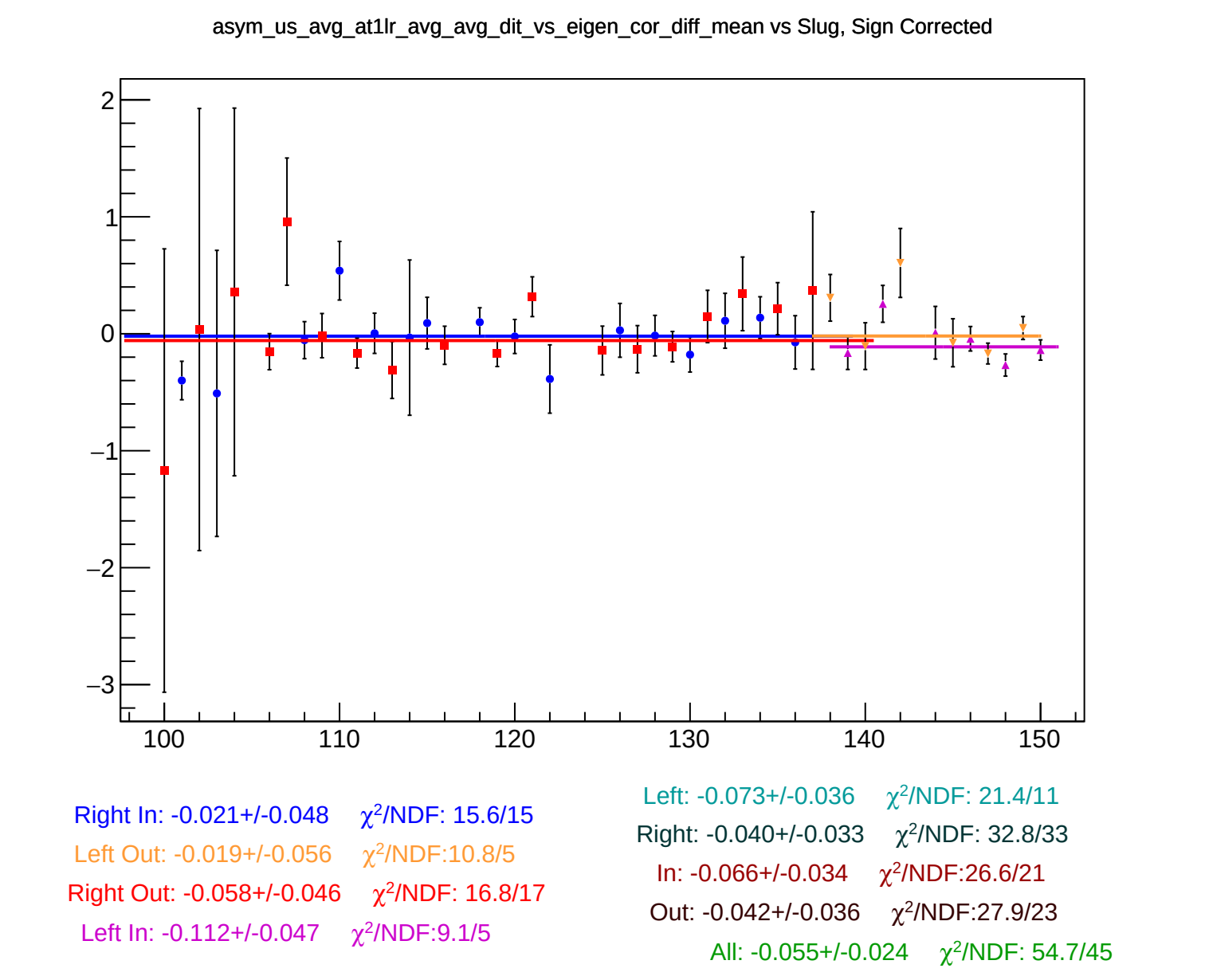
Left: 102.225+/-0.026 $\chi^2$/NDF: 1965988.9/11

Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

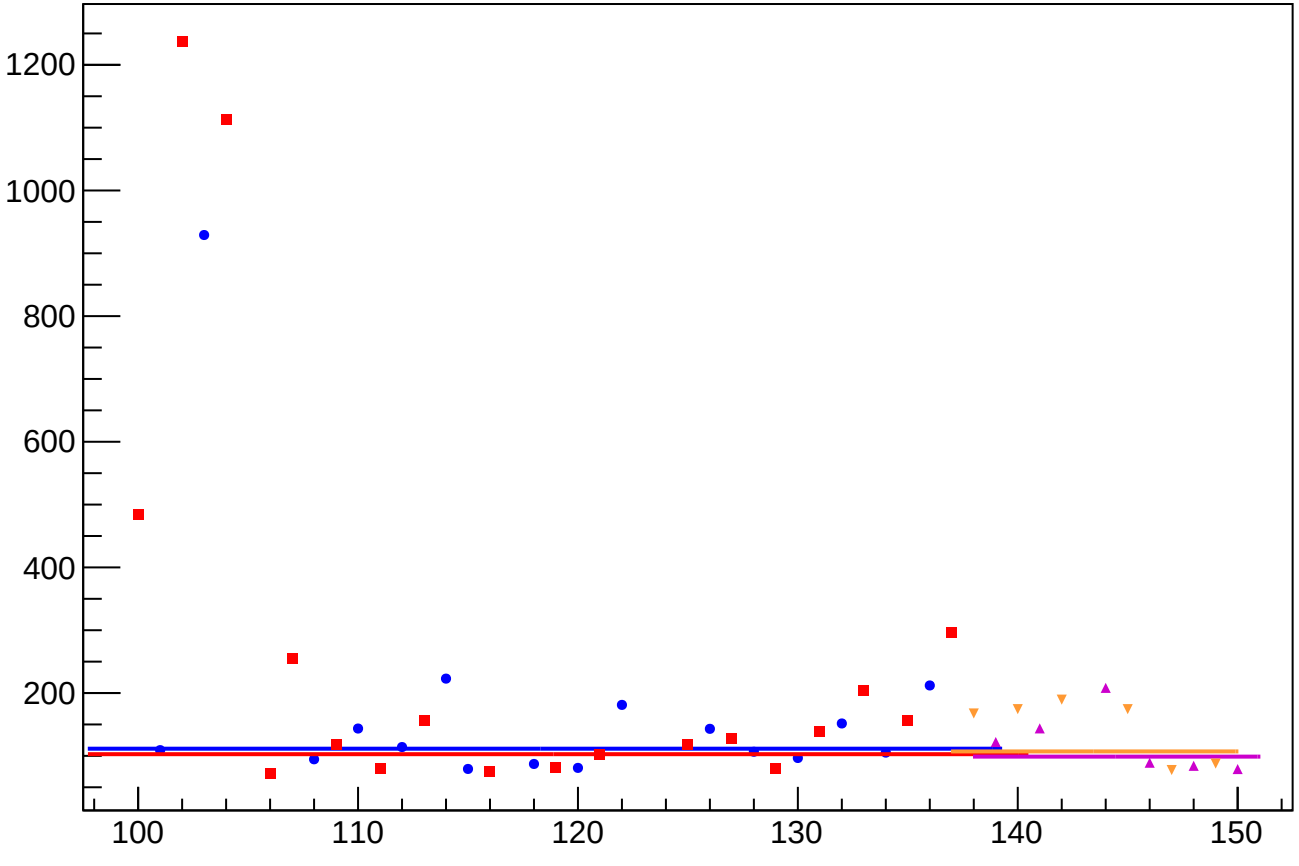
In: 105.067+/-0.024 $\chi^2$/NDF:2769159.1/21

Out: 104.451+/-0.025 $\chi^2$/NDF:3915508.3/23

All: 104.779+/-0.017 $\chi^2$/NDF: 6684982.3/45


asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.021+/-0.048 χ²/NDF: 15.6/15
Left Out: -0.019+/-0.056 χ²/NDF:10.8/5
Right Out: -0.058+/-0.046 χ²/NDF: 16.8/17
Left In: -0.112+/-0.047 χ²/NDF:9.1/5
Left: -0.073+/-0.036 χ²/NDF: 21.4/11
Right: -0.040+/-0.033 χ²/NDF: 32.8/33
In: -0.066+/-0.034 χ²/NDF:26.6/21
Out: -0.042+/-0.036 χ²/NDF:27.9/23
All: -0.055+/-0.024 χ²/NDF: 54.7/45

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.407+/-0.034 $\chi^2$/NDF: 1839361.2/15

Left Out: 107.067+/-0.040 $\chi^2$/NDF:1081398.1/5

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 98.794+/-0.034 $\chi^2$/NDF:859300.3/5

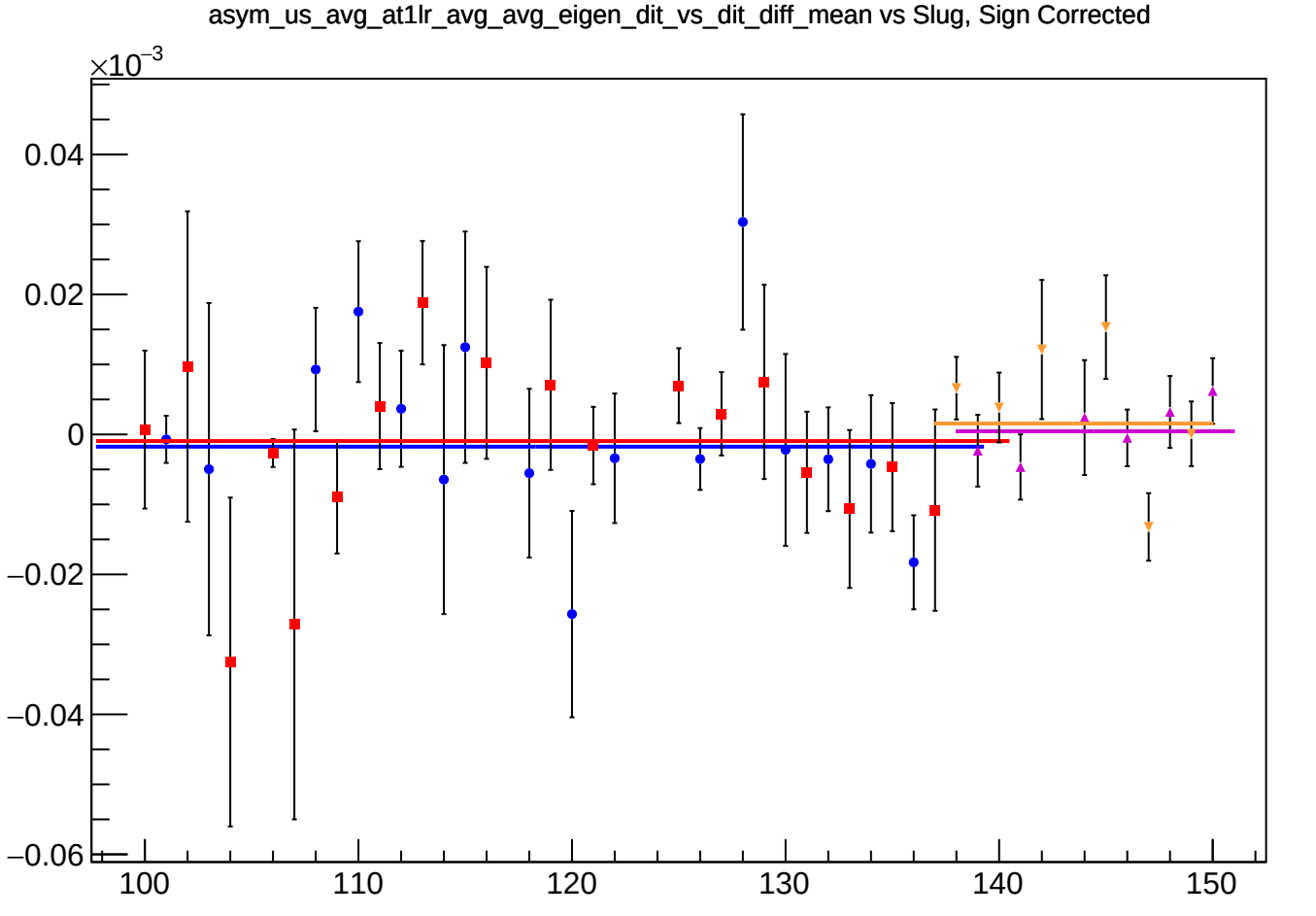
Left: 102.225+/-0.026 $\chi^2$/NDF: 1965988.9/11

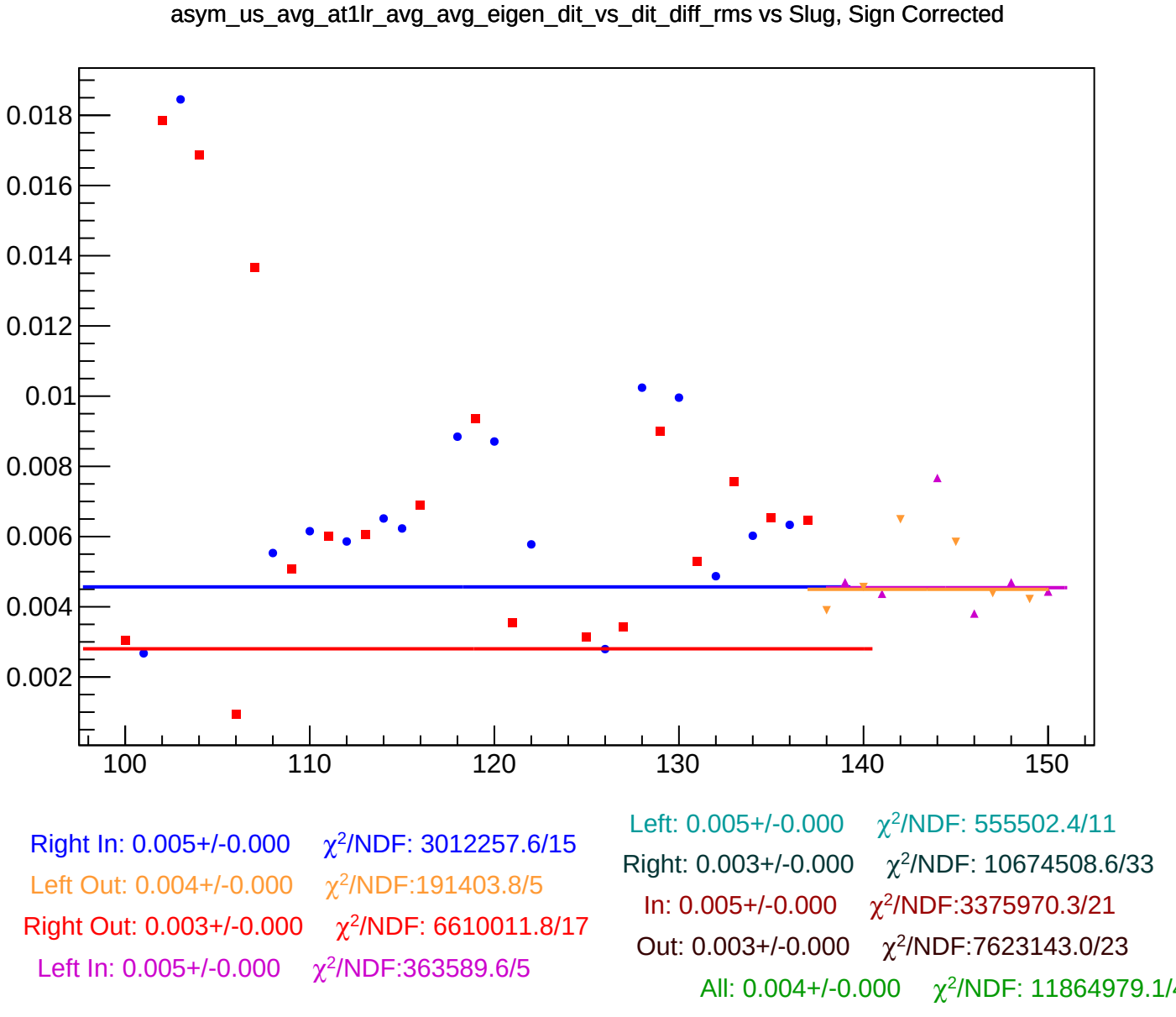
Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

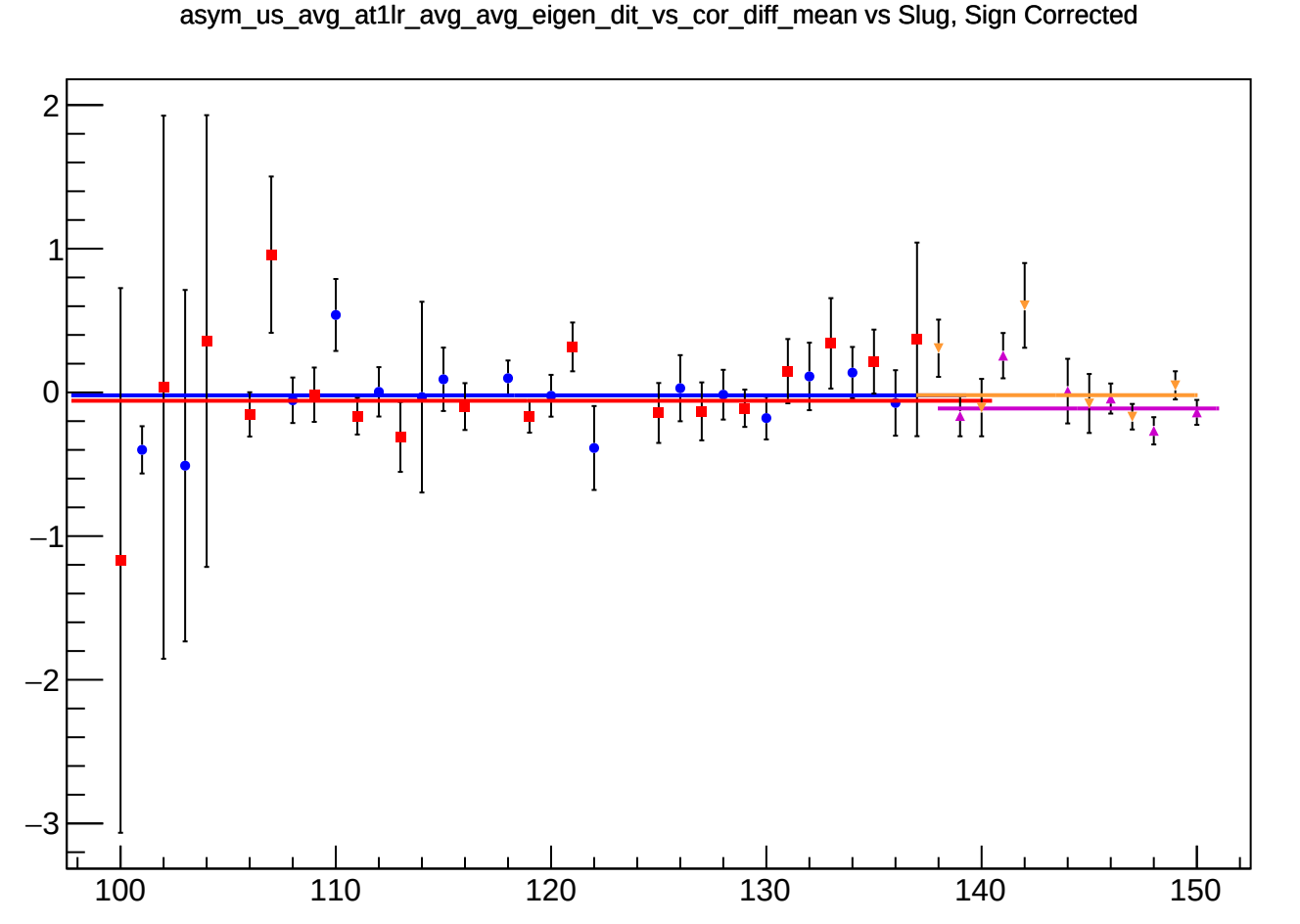
In: 105.067+/-0.024 $\chi^2$/NDF:2769159.1/21

Out: 104.451+/-0.025 $\chi^2$/NDF:3915508.3/23

All: 104.779+/-0.017 $\chi^2$/NDF: 6684982.3/45


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.04
0.02
0
−0.02
−0.04
−0.06
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 20.0/15
Left Out: 0.000+/-0.000 χ²/NDF:15.6/5
Right Out: -0.000+/-0.000 χ²/NDF: 15.7/17
Left In: 0.000+/-0.000 χ²/NDF:3.4/5
Left: 0.000+/-0.000 χ²/NDF: 19.1/11
Right: -0.000+/-0.000 χ²/NDF: 35.9/33
In: -0.000+/-0.000 χ²/NDF:24.0/21
Out: -0.000+/-0.000 χ²/NDF:32.2/23
All: -0.000+/-0.000 χ²/NDF: 56.3/45


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
100
110
120
130
140
150
Right In: 0.005+/-0.000 χ²/NDF: 3012257.6/15
Left Out: 0.004+/-0.000 χ²/NDF:191403.8/5
Right Out: 0.003+/-0.000 χ²/NDF: 6610011.8/17
Left In: 0.005+/-0.000 χ²/NDF:363589.6/5
Left: 0.005+/-0.000 χ²/NDF: 555502.4/11
Right: 0.003+/-0.000 χ²/NDF: 10674508.6/33
In: 0.005+/-0.000 χ²/NDF:3375970.3/21
Out: 0.003+/-0.000 χ²/NDF:7623143.0/23
All: 0.004+/-0.000 χ²/NDF: 11864979.1/45




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.019+/-0.056 $\chi^2$/NDF:10.8/5

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.112+/-0.047 $\chi^2$/NDF:9.1/5

Left: -0.073+/-0.036 $\chi^2$/NDF: 21.4/11

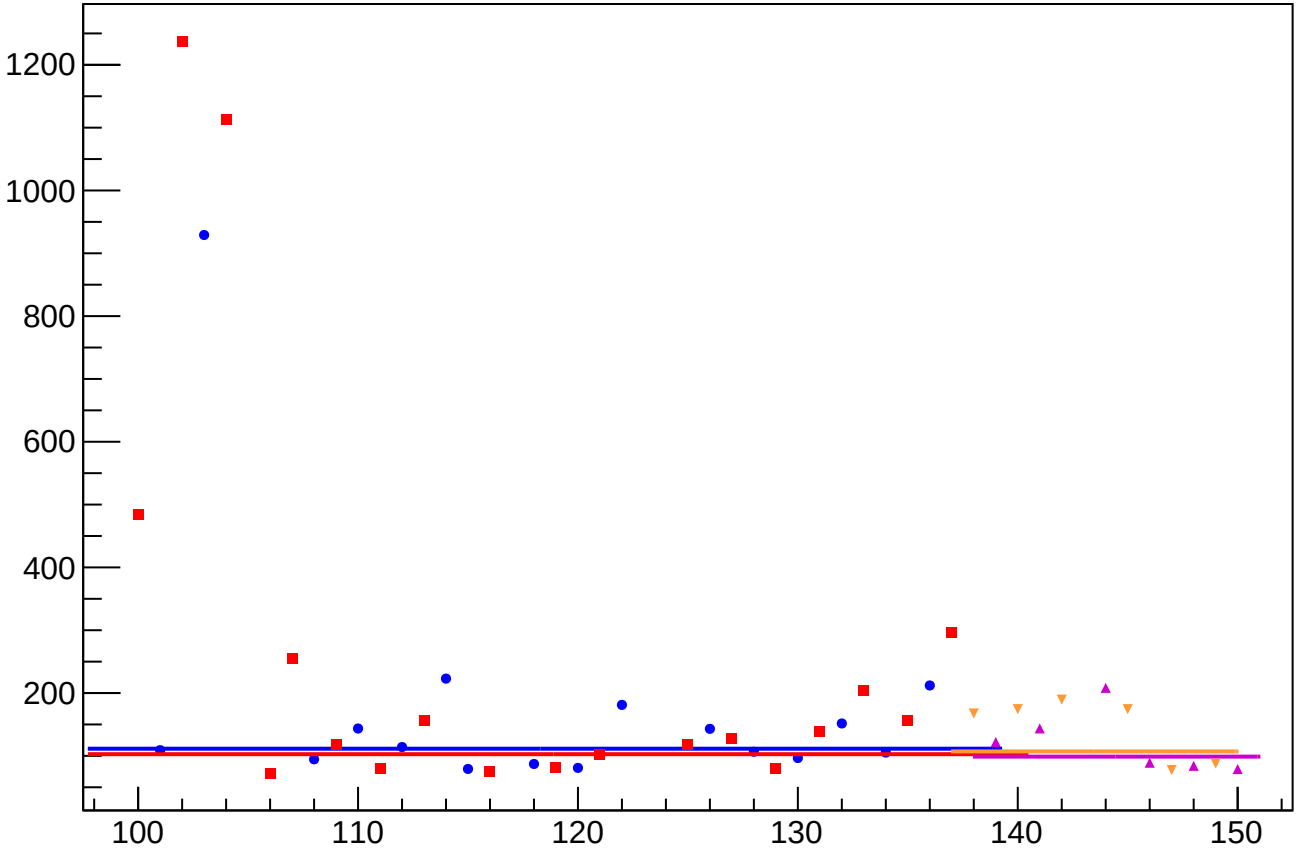
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.066+/-0.034 $\chi^2$/NDF:26.6/21

Out: -0.042+/-0.036 $\chi^2$/NDF:27.9/23

All: -0.055+/-0.024 $\chi^2$/NDF: 54.7/45

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.404+/-0.034 $\chi^2$/NDF: 1839407.3/15

Left Out: 107.068+/-0.040 $\chi^2$/NDF:1081368.9/5

Right Out: 102.671+/-0.033 $\chi^2$/NDF: 2826848.2/17

Left In: 98.794+/-0.034 $\chi^2$/NDF:859296.6/5

Left: 102.225+/-0.026 $\chi^2$/NDF: 1965958.5/11

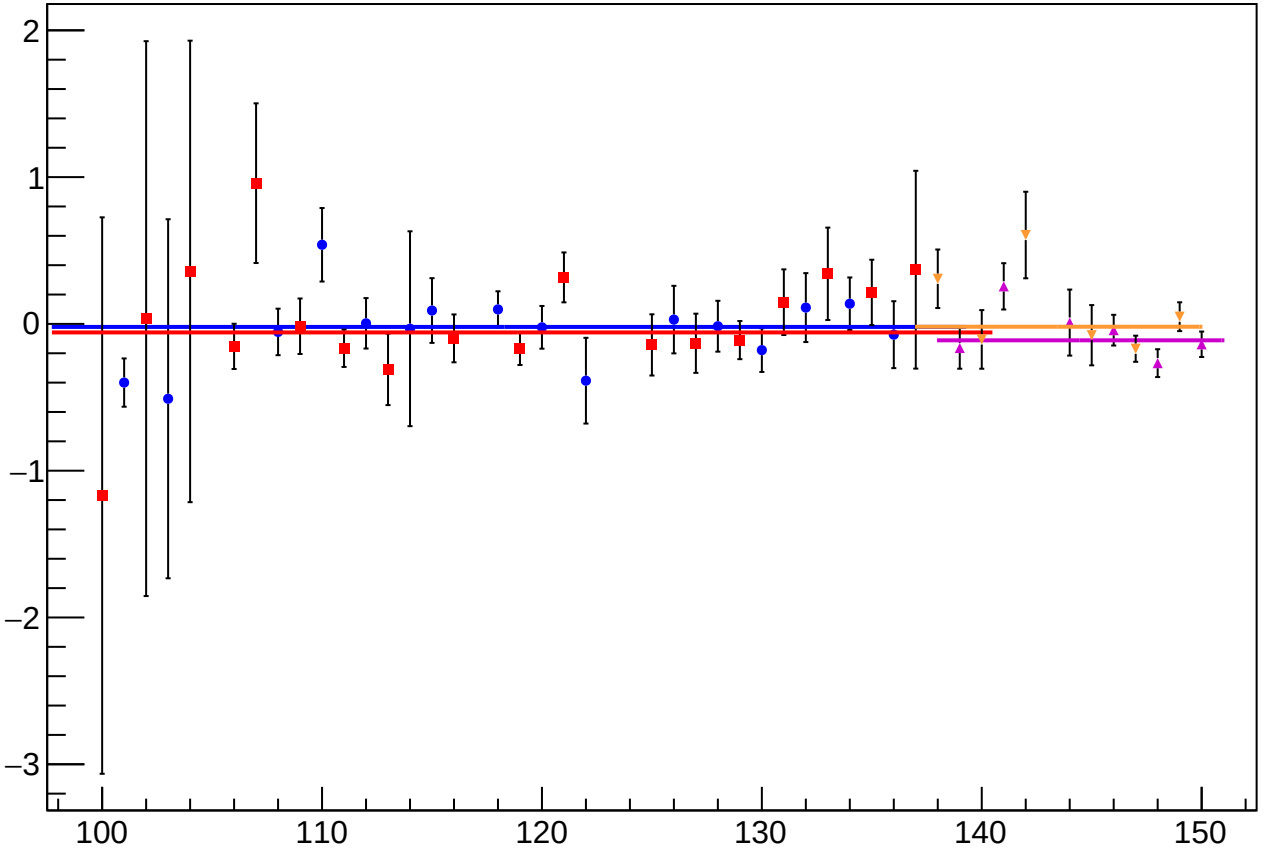
Right: 106.924+/-0.024 $\chi^2$/NDF: 4700749.9/33

In: 105.066+/-0.024 $\chi^2$/NDF:2769168.3/21

Out: 104.450+/-0.025 $\chi^2$/NDF:3915482.6/23

All: 104.778+/-0.017 $\chi^2$/NDF: 6684965.5/45

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.019+/-0.056 $\chi^2$/NDF:10.8/5

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.112+/-0.047 $\chi^2$/NDF:9.1/5

Left: -0.073+/-0.036 $\chi^2$/NDF: 21.4/11

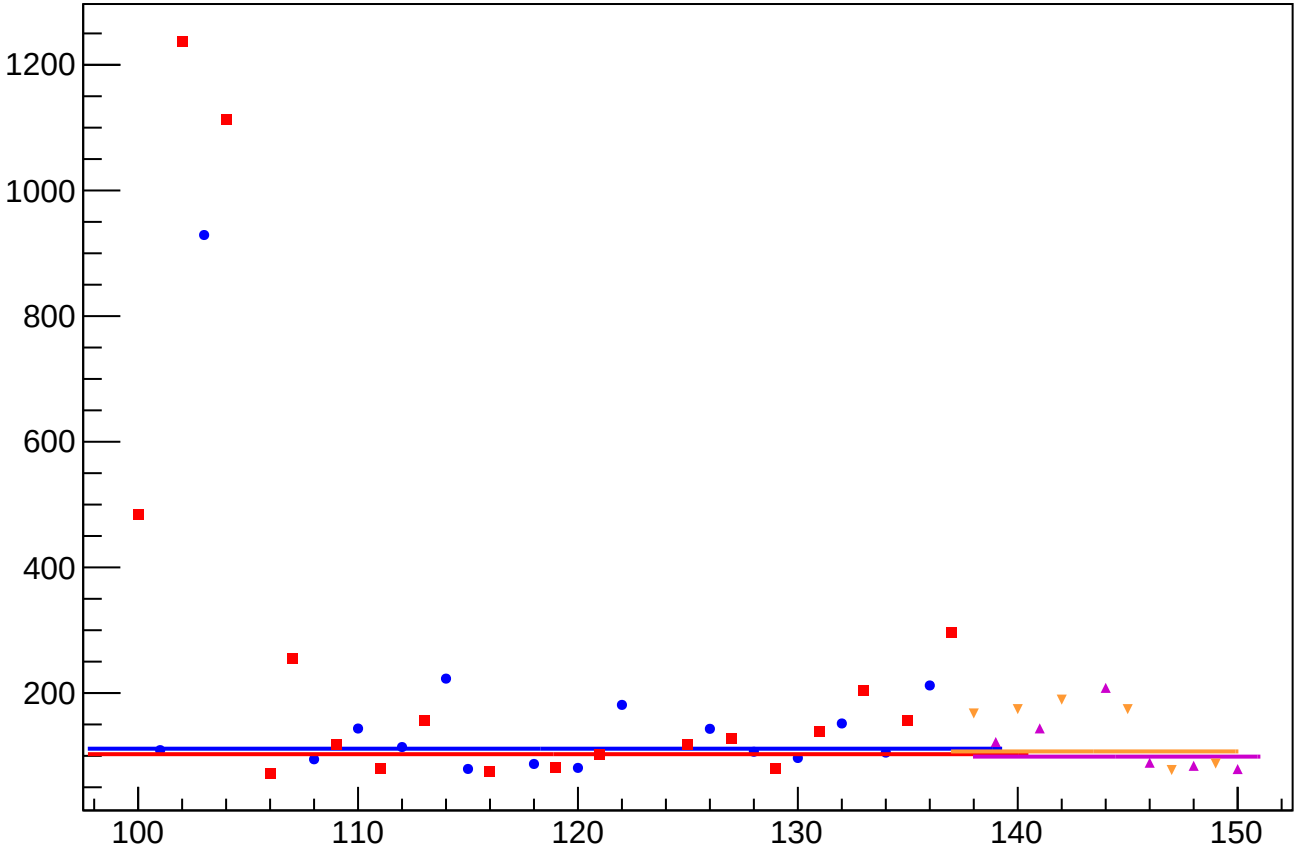
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.066+/-0.034 $\chi^2$/NDF:26.6/21

Out: -0.042+/-0.036 $\chi^2$/NDF:27.9/23

All: -0.055+/-0.024 $\chi^2$/NDF: 54.7/45

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.404+/-0.034 $\chi^2$/NDF: 1839407.3/15

Left Out: 107.068+/-0.040 $\chi^2$/NDF:1081368.9/5

Right Out: 102.671+/-0.033 $\chi^2$/NDF: 2826848.2/17

Left In: 98.794+/-0.034 $\chi^2$/NDF:859296.6/5

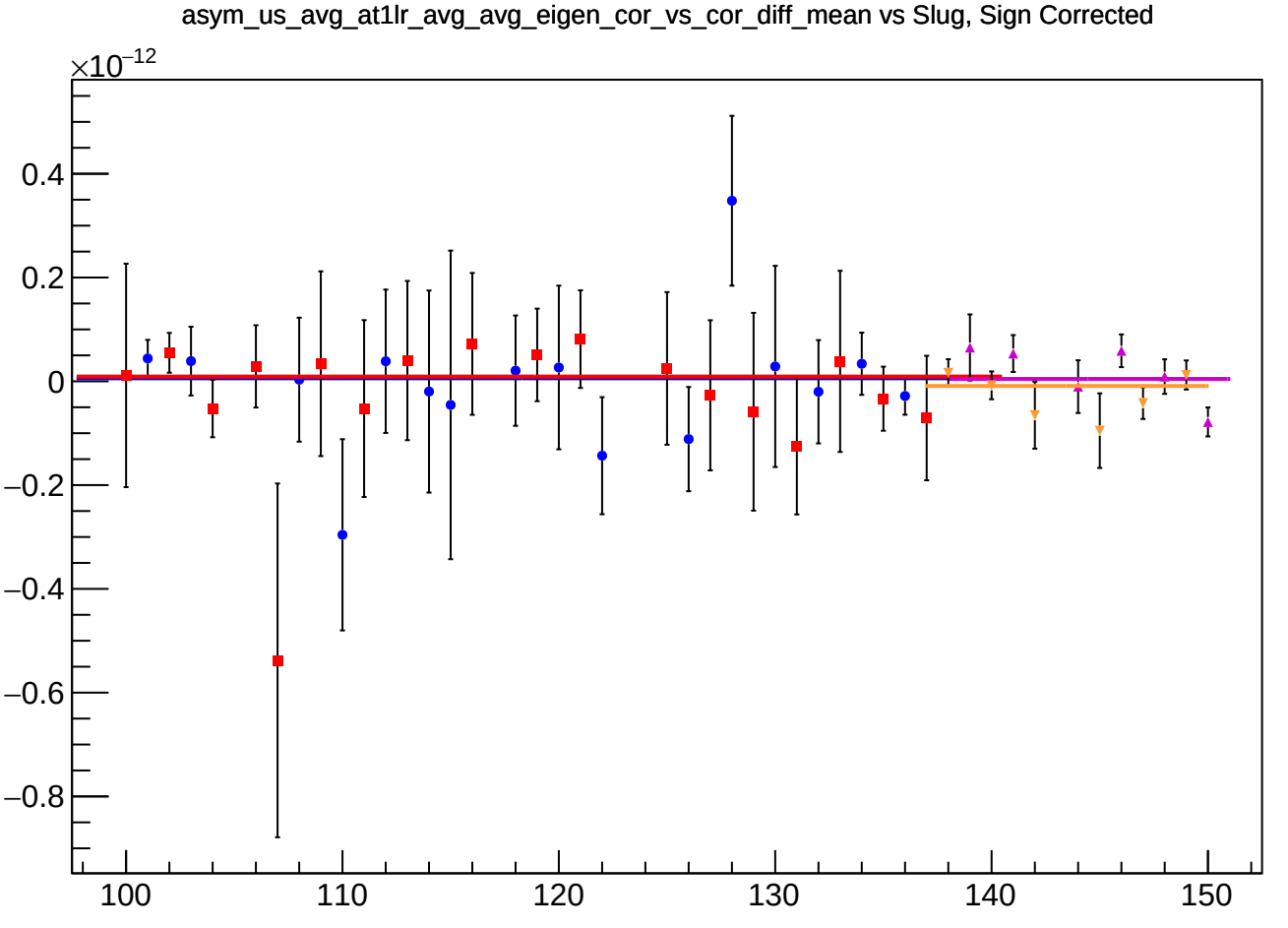
Left: 102.225+/-0.026 $\chi^2$/NDF: 1965958.5/11

Right: 106.924+/-0.024 $\chi^2$/NDF: 4700749.9/33

In: 105.066+/-0.024 $\chi^2$/NDF:2769168.3/21

Out: 104.450+/-0.025 $\chi^2$/NDF:3915482.6/23

All: 104.778+/-0.017 $\chi^2$/NDF: 6684965.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.9/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.7/5

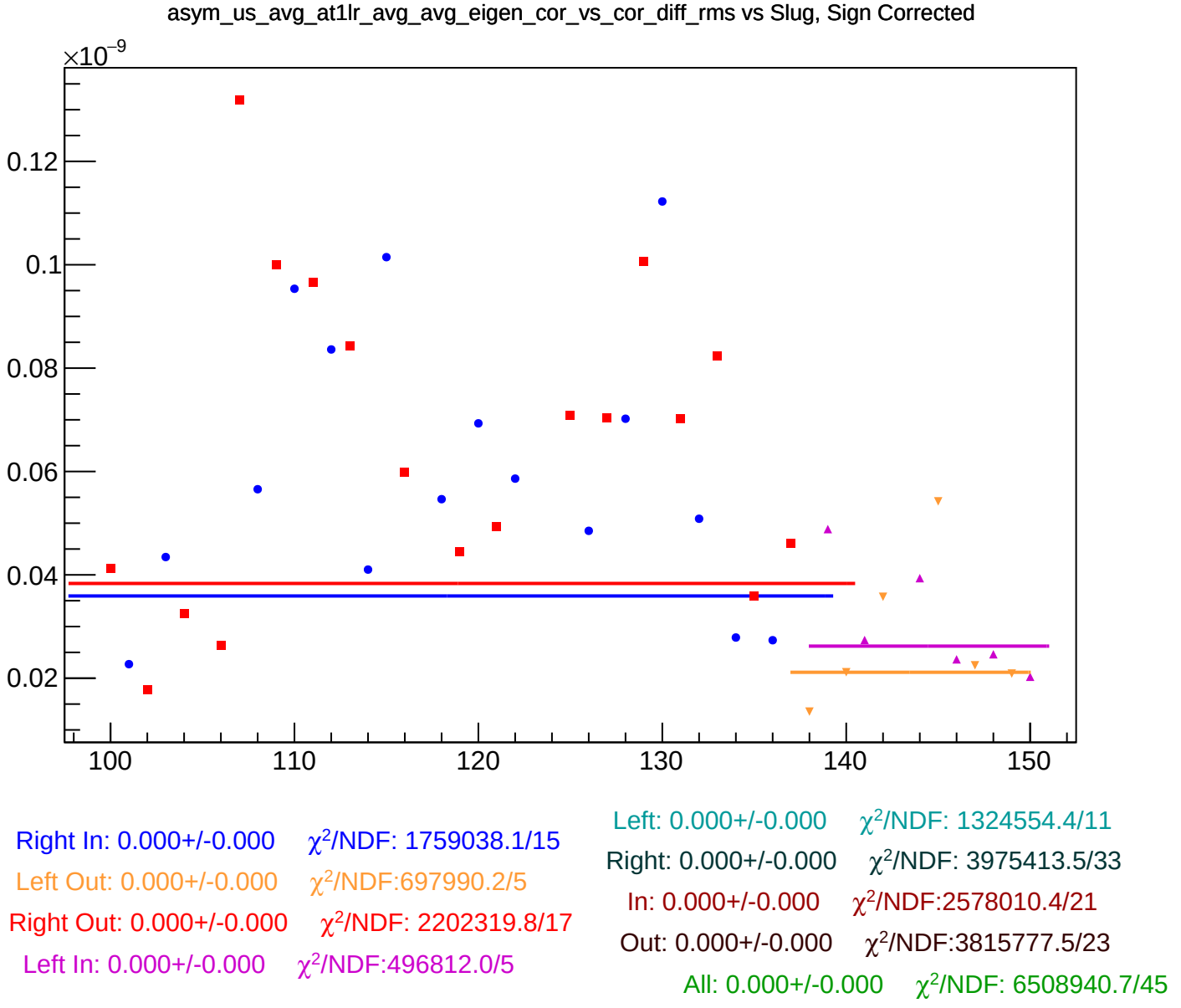
Left: -0.000+/-0.000 $\chi^2$/NDF: 20.0/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 21.6/33

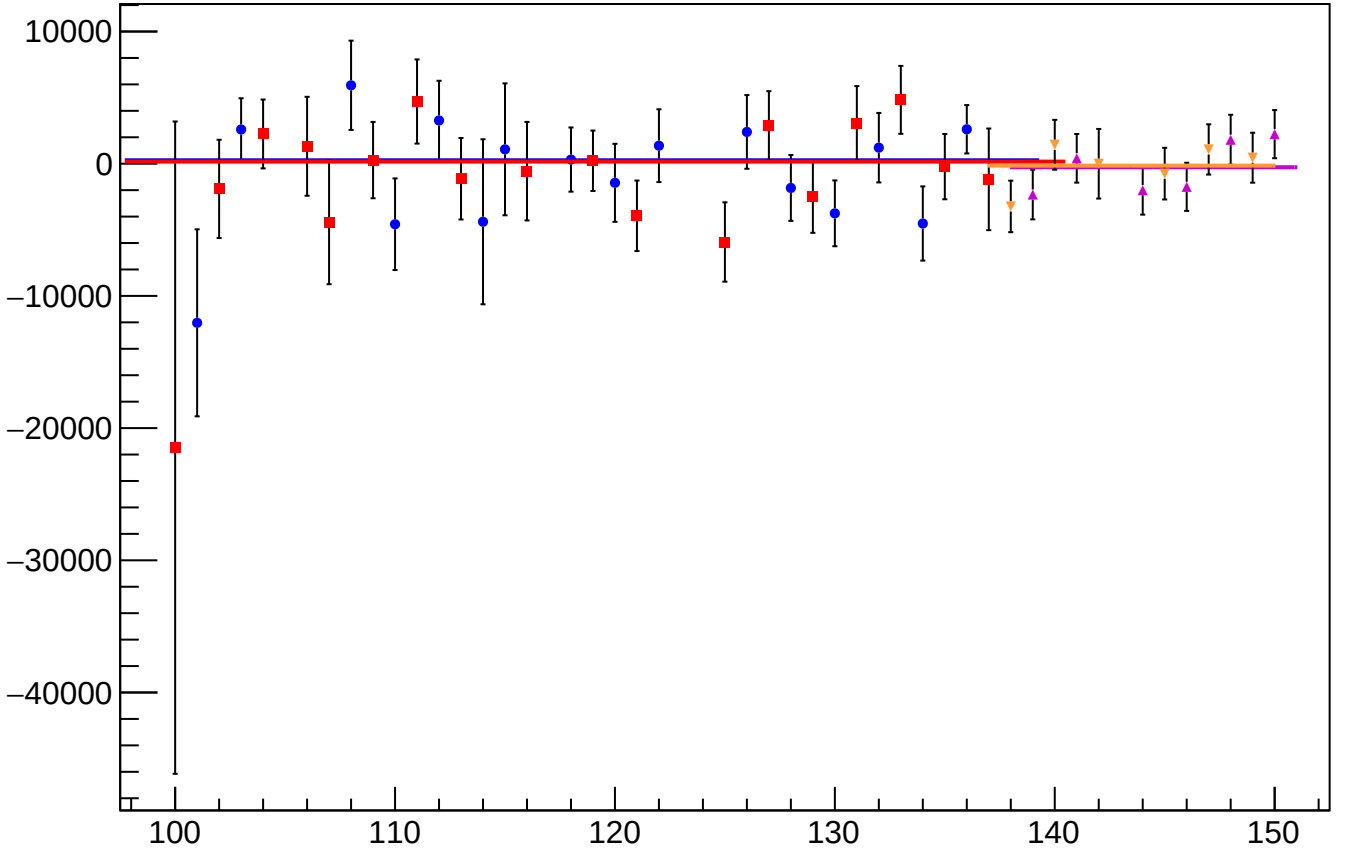
In: 0.000+/-0.000 $\chi^2$/NDF:27.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:14.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 41.9/45


asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1759038.1/15
Left Out: 0.000+/-0.000 χ²/NDF:697990.2/5
Right Out: 0.000+/-0.000 χ²/NDF: 2202319.8/17
Left In: 0.000+/-0.000 χ²/NDF:496812.0/5
Left: 0.000+/-0.000 χ²/NDF: 1324554.4/11
Right: 0.000+/-0.000 χ²/NDF: 3975413.5/33
In: 0.000+/-0.000 χ²/NDF:2578010.4/21
Out: 0.000+/-0.000 χ²/NDF:3815777.5/23
All: 0.000+/-0.000 χ²/NDF: 6508940.7/45

reg_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected




Right In: 259.502+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: -144.725+/-814.496 $\chi^2$/NDF:3.8/5

Right Out: 159.330+/-712.314 $\chi^2$/NDF: 18.1/17

Left In: -266.668+/-754.740 $\chi^2$/NDF:6.0/5

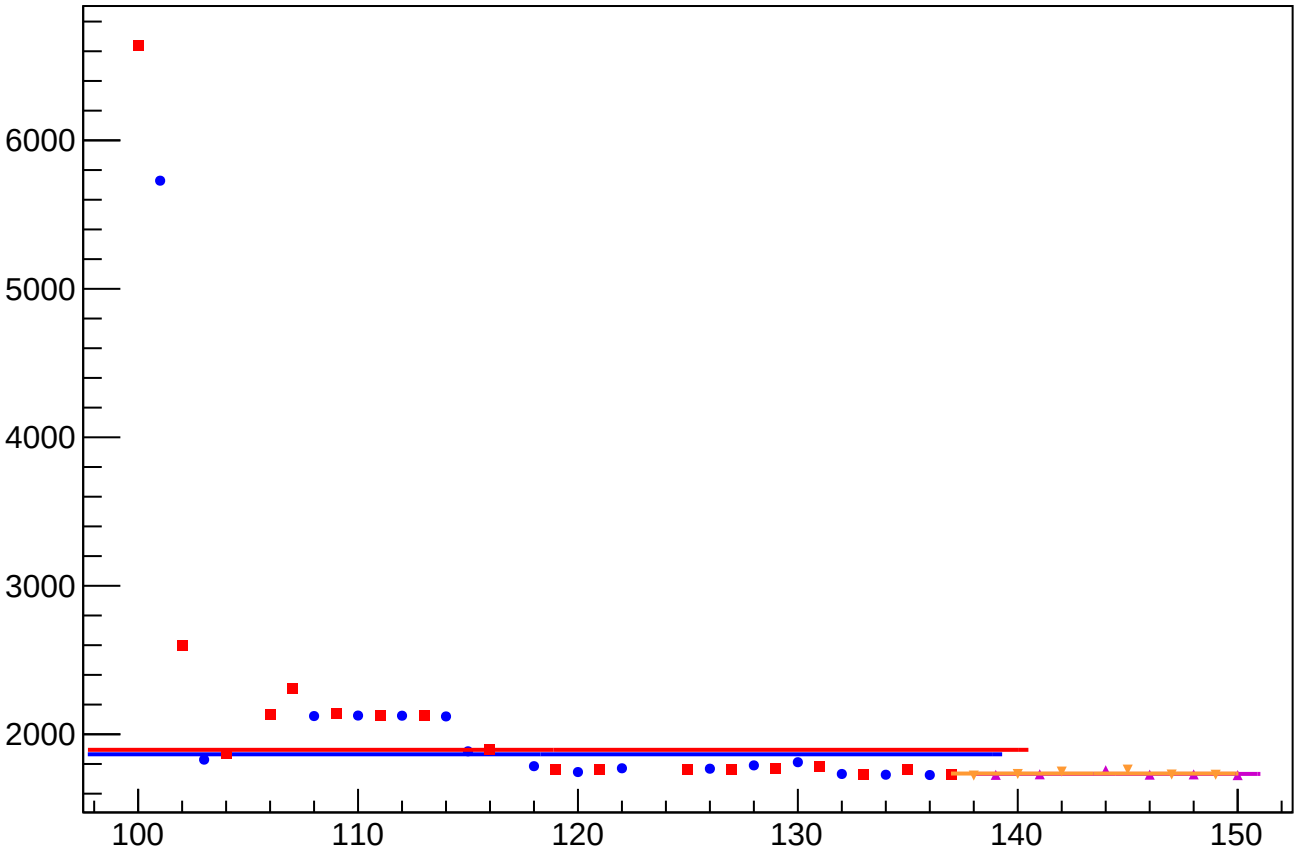
Left: -210.333+/-553.603 $\chi^2$/NDF: 9.8/11

Right: 209.600+/-502.755 $\chi^2$/NDF: 37.5/33

In: 12.585+/-517.023 $\chi^2$/NDF:25.7/21

Out: 27.561+/-536.192 $\chi^2$/NDF:22.0/23

All: 19.800+/-372.183 $\chi^2$/NDF: 47.7/45




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1735.558+/-0.576 $\chi^2$/NDF:580.4/5

Right Out: 1895.250+/-0.504 $\chi^2$/NDF: 250806.5/17

Left In: 1733.058+/-0.534 $\chi^2$/NDF:446.7/5

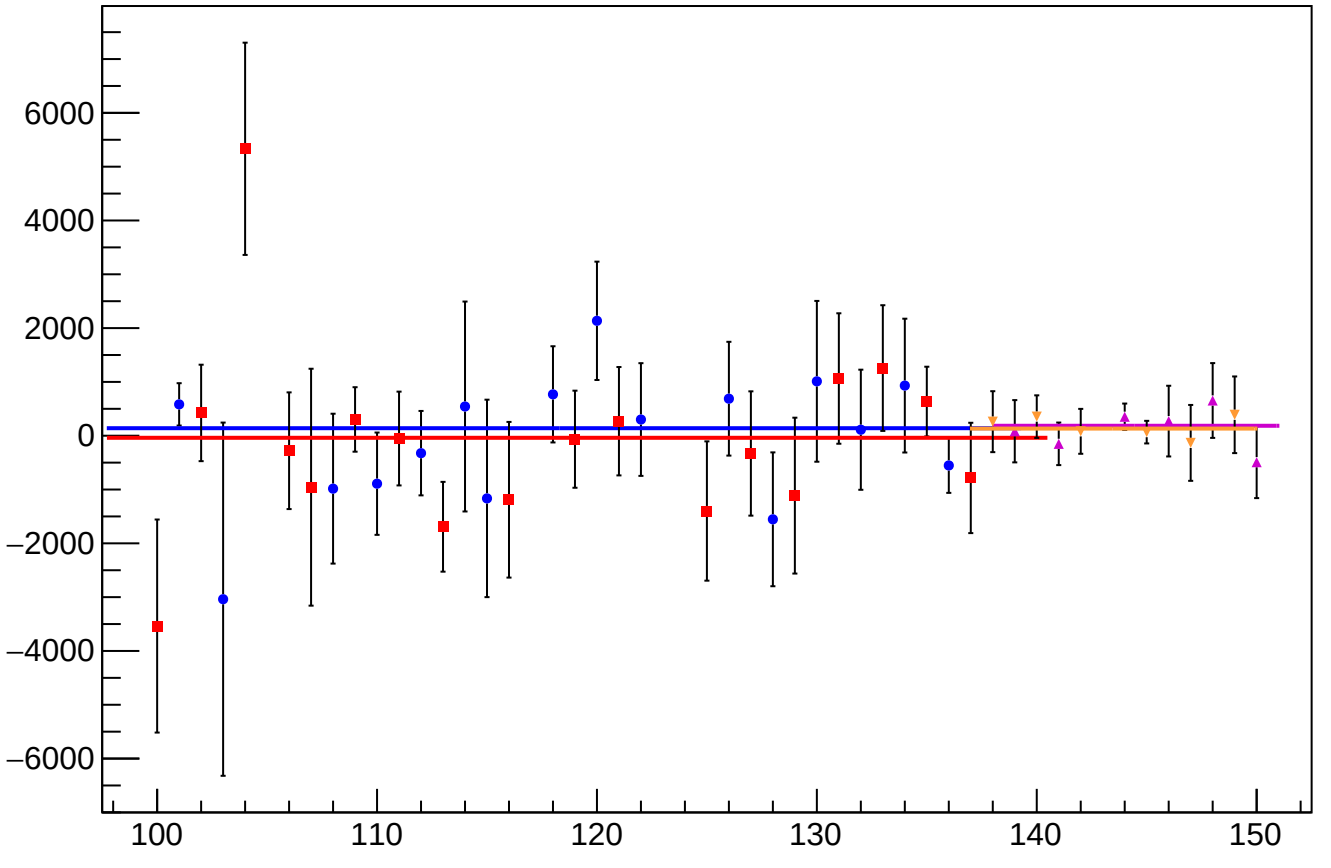
Left: 1734.213+/-0.391 $\chi^2$/NDF: 1037.2/11

Right: 1880.155+/-0.356 $\chi^2$/NDF: 925321.0/33

In: 1803.173+/-0.366 $\chi^2$/NDF:705694.7/21

Out: 1826.044+/-0.379 $\chi^2$/NDF:294949.8/23

All: 1814.192+/-0.263 $\chi^2$/NDF: 1002530.0/45




Right In: 139.799+/-220.100 $\chi^2$/NDF: 13.5/15

Left Out: 132.548+/-154.441 $\chi^2$/NDF:0.8/5

Right Out: -38.629+/-238.253 $\chi^2$/NDF: 21.4/17

Left In: 184.910+/-174.952 $\chi^2$/NDF:2.7/5

Left: 155.481+/-115.782 $\chi^2$/NDF: 3.5/11

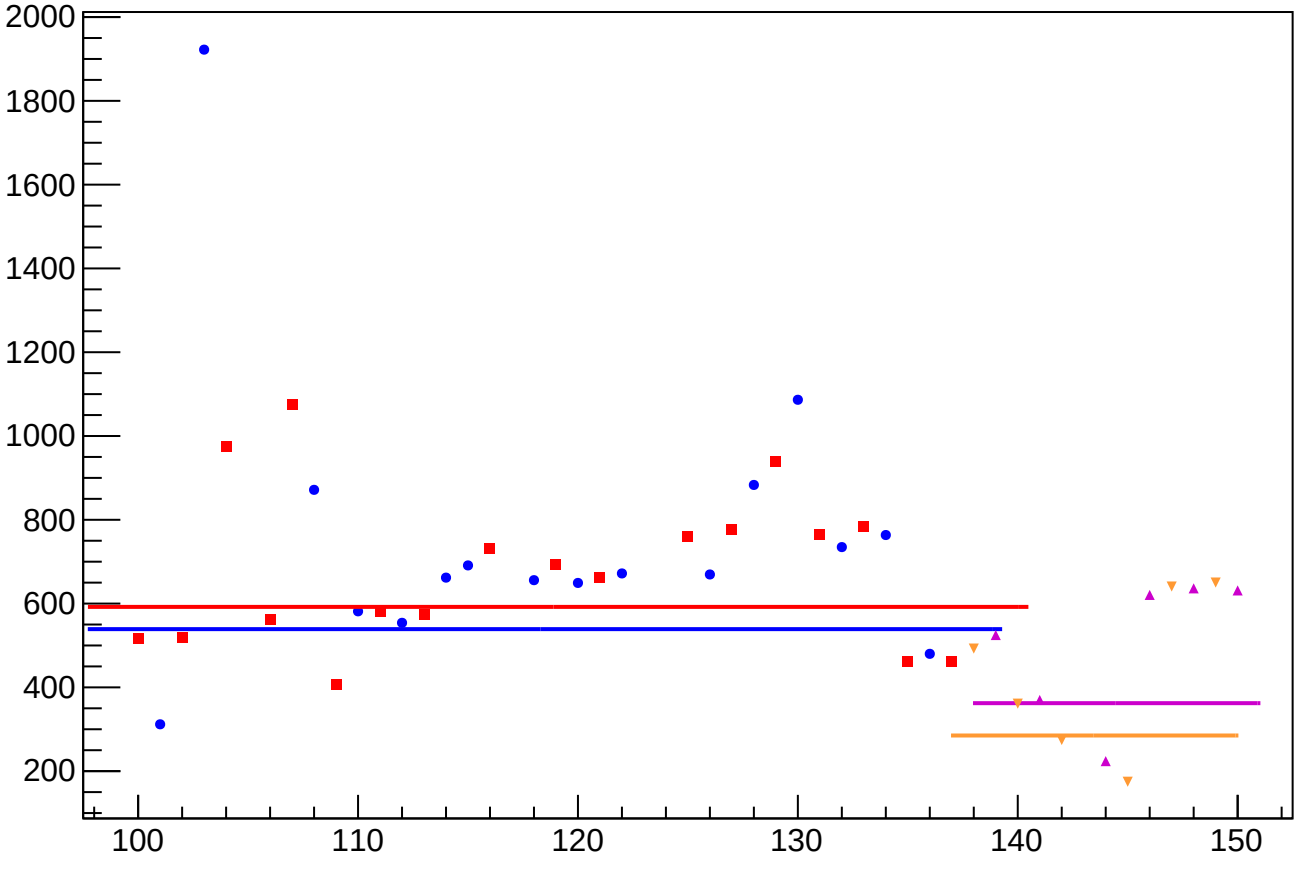
Right: 57.640+/-161.672 $\chi^2$/NDF: 35.2/33

In: 167.443+/-136.956 $\chi^2$/NDF:16.2/21

Out: 81.902+/-129.595 $\chi^2$/NDF:22.5/23

All: 122.312+/-94.133 $\chi^2$/NDF: 38.9/45

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 539.016+/-0.156 $\chi^2$/NDF: 1854576.5/15

Left Out: 285.120+/-0.109 $\chi^2$/NDF:1930449.1/5

Right Out: 592.101+/-0.168 $\chi^2$/NDF: 843066.1/17

Left In: 362.293+/-0.124 $\chi^2$/NDF:1741737.7/5

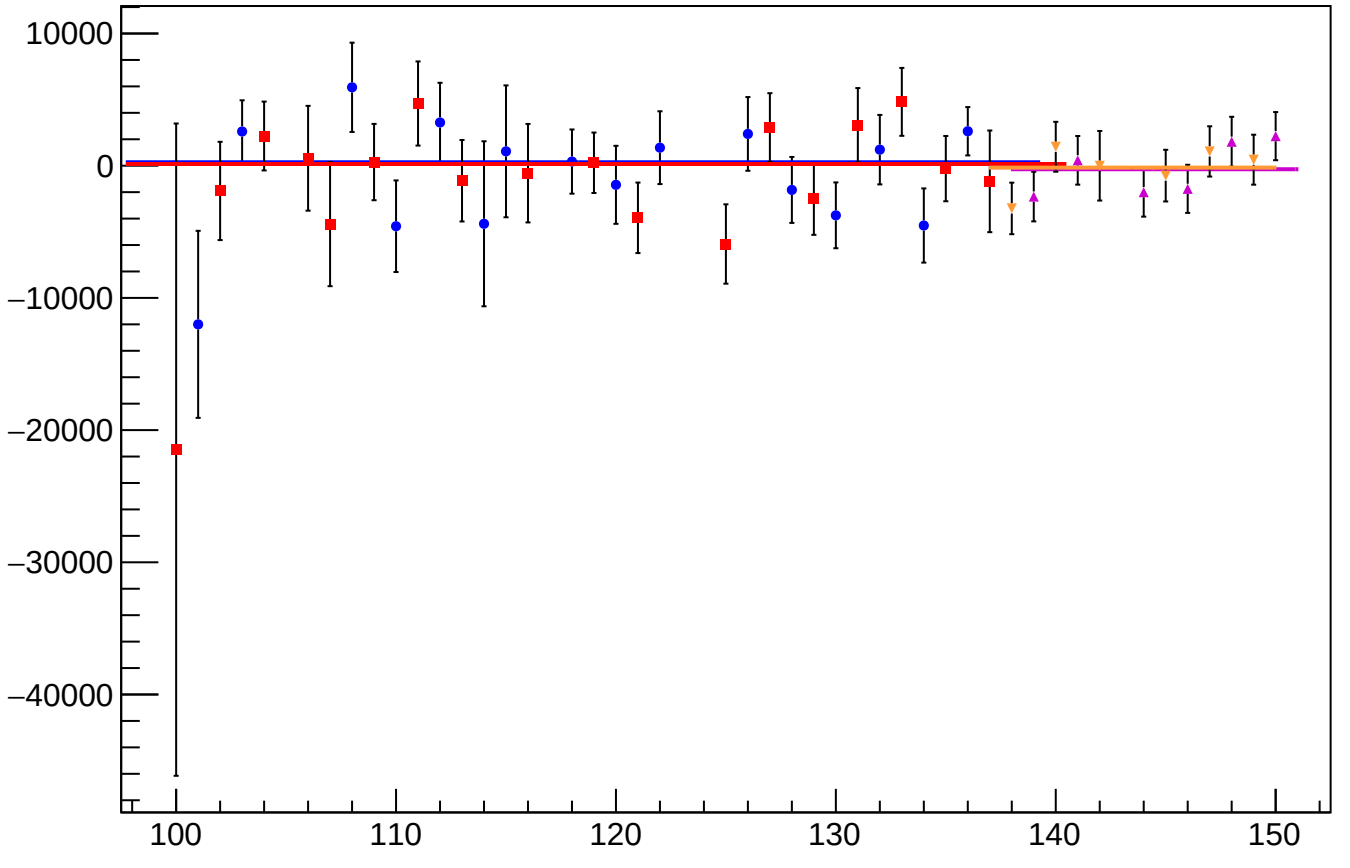
Left: 318.920+/-0.082 $\chi^2$/NDF: 3890902.9/11

Right: 563.459+/-0.114 $\chi^2$/NDF: 2751212.3/33

In: 430.718+/-0.097 $\chi^2$/NDF:4386448.3/21

Out: 375.947+/-0.092 $\chi^2$/NDF:5111422.2/23

All: 401.821+/-0.067 $\chi^2$/NDF: 9666633.9/45




Right In: 259.689+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: -144.541+/-814.496 $\chi^2$/NDF:3.8/5

Right Out: 130.049+/-713.724 $\chi^2$/NDF: 18.0/17

Left In: -266.808+/-754.740 $\chi^2$/NDF:6.0/5

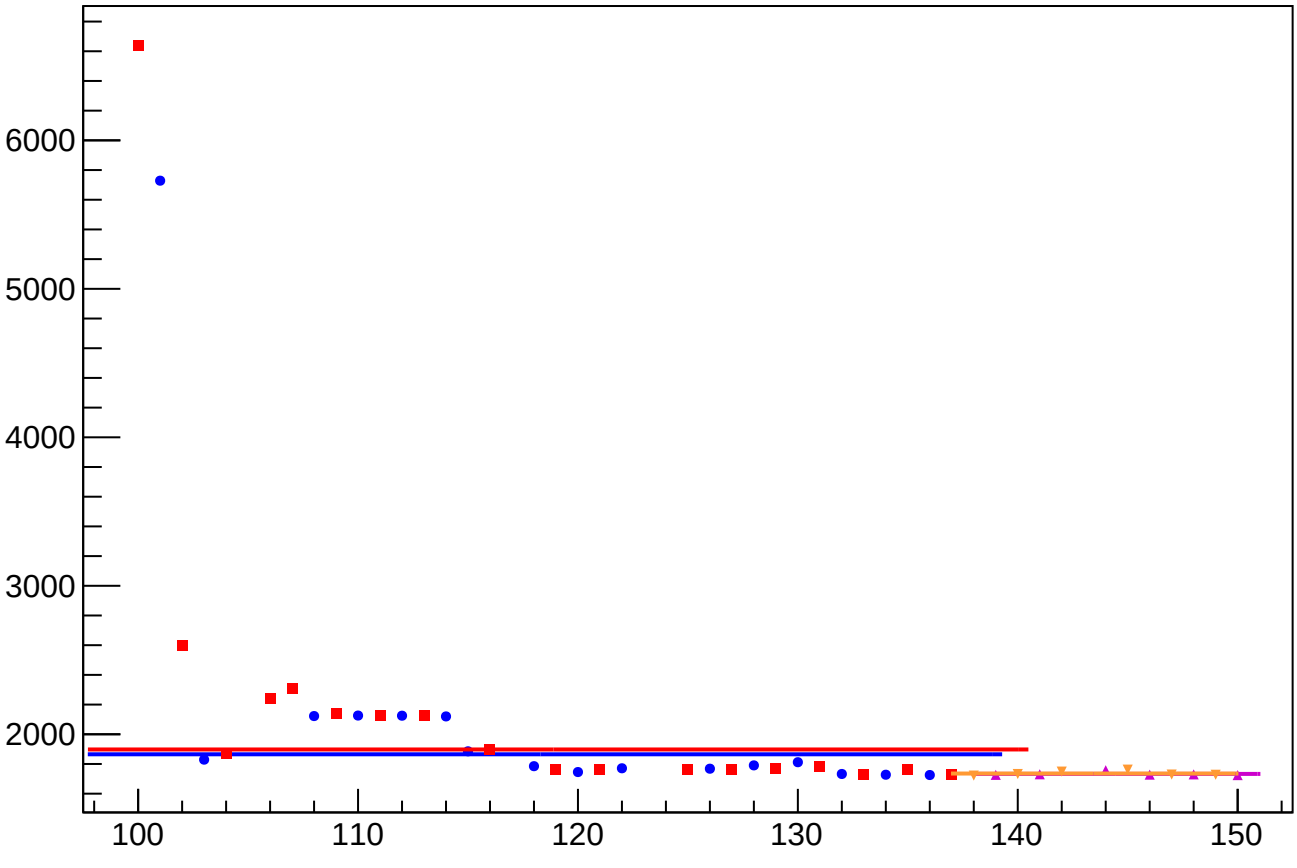
Left: -210.323+/-553.603 $\chi^2$/NDF: 9.8/11

Right: 195.236+/-503.250 $\chi^2$/NDF: 37.4/33

In: 12.618+/-517.023 $\chi^2$/NDF:25.7/21

Out: 10.782+/-536.792 $\chi^2$/NDF:21.9/23

All: 11.735+/-372.383 $\chi^2$/NDF: 47.5/45




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1735.558+/-0.576 $\chi^2$/NDF:580.4/5

Right Out: 1897.700+/-0.505 $\chi^2$/NDF: 257735.0/17

Left In: 1733.058+/-0.534 $\chi^2$/NDF:446.7/5

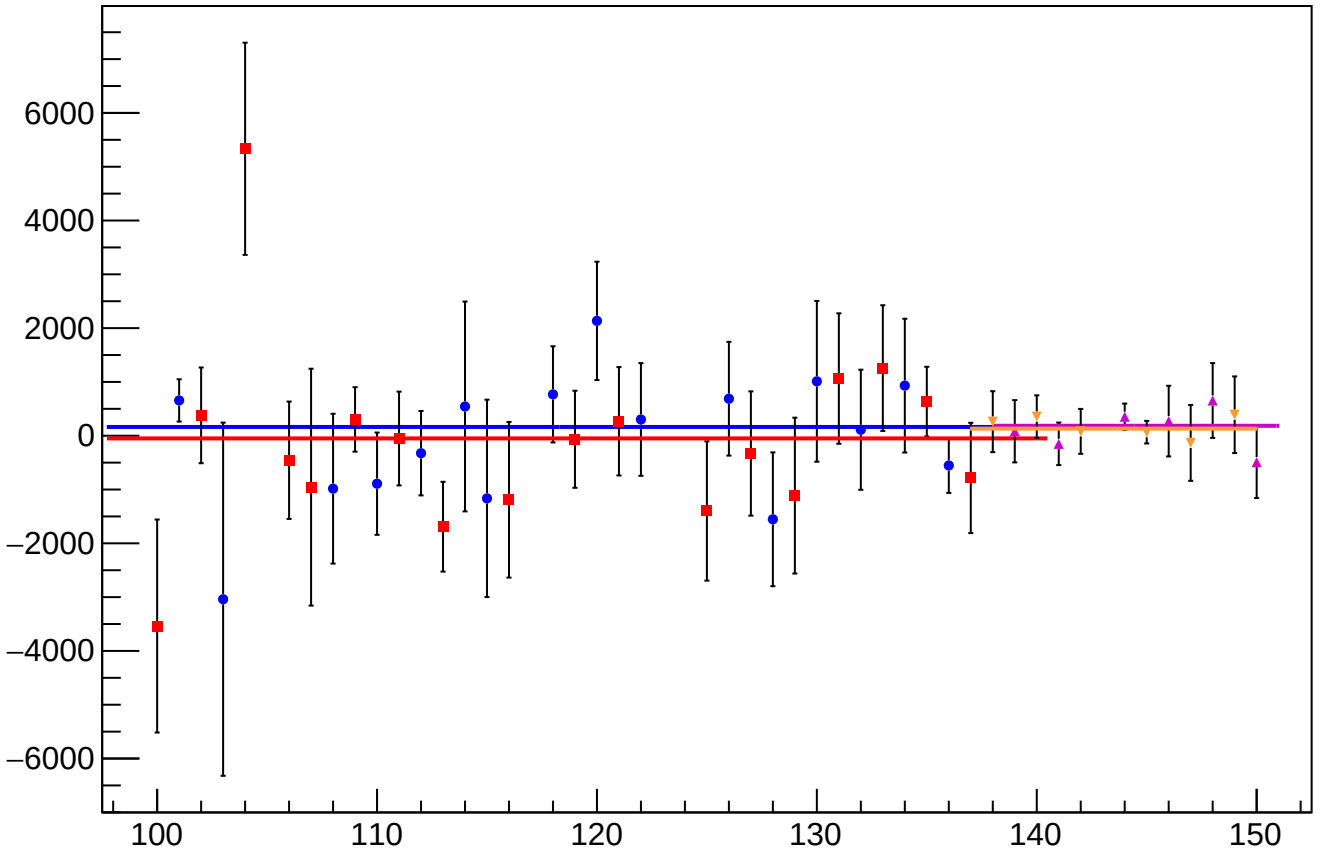
Left: 1734.213+/-0.391 $\chi^2$/NDF: 1037.2/11

Right: 1881.343+/-0.356 $\chi^2$/NDF: 932548.8/33

In: 1803.173+/-0.366 $\chi^2$/NDF:705694.6/21

Out: 1827.275+/-0.380 $\chi^2$/NDF:303148.5/23

All: 1814.772+/-0.263 $\chi^2$/NDF: 1010934.6/45




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 132.410+/-154.445 $\chi^2$/NDF:0.8/5

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 184.895+/-174.953 $\chi^2$/NDF:2.7/5

Left: 155.397+/-115.784 $\chi^2$/NDF: 3.5/11

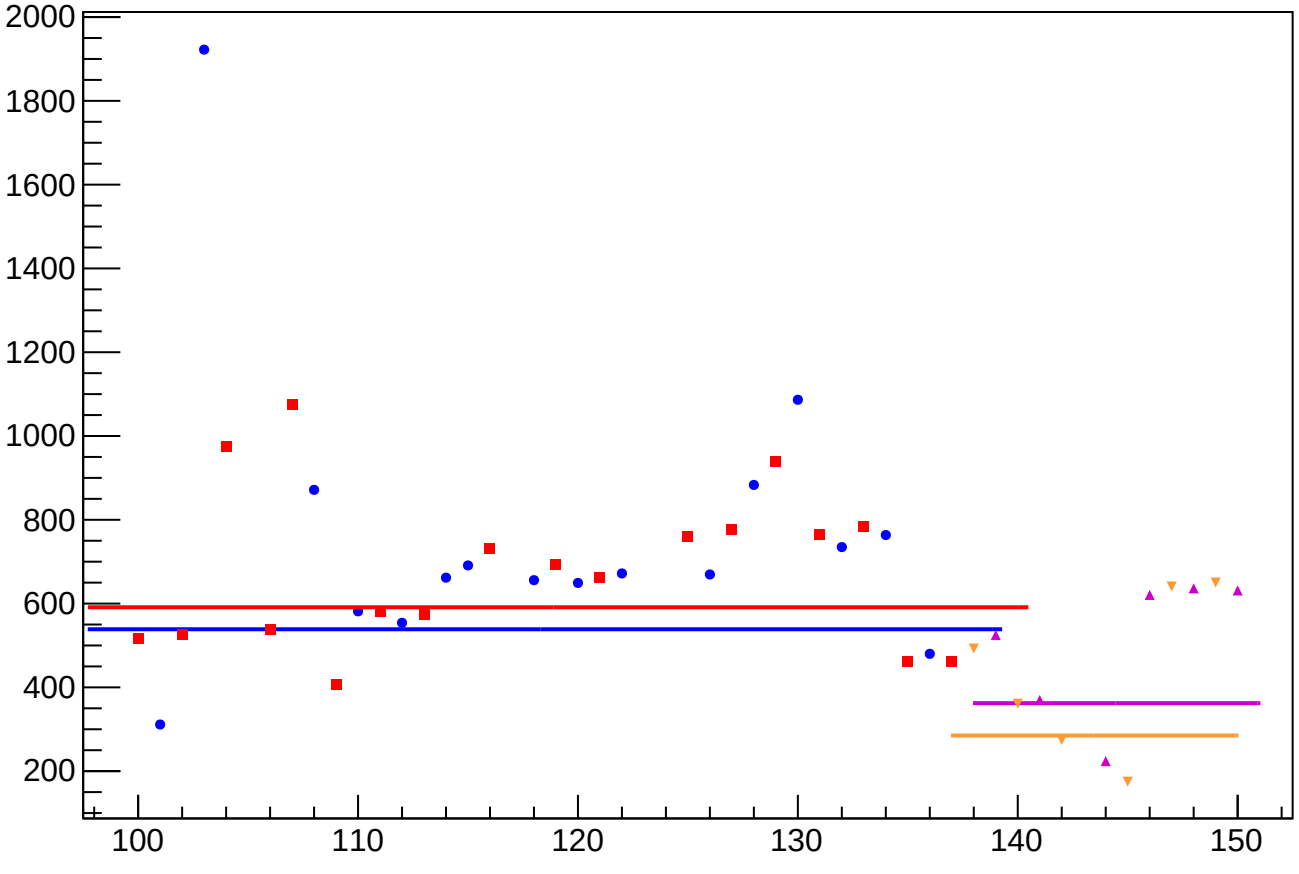
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 176.471+/-136.939 $\chi^2$/NDF:16.6/21

Out: 78.534+/-129.588 $\chi^2$/NDF:22.6/23

All: 124.804+/-94.124 $\chi^2$/NDF: 39.5/45

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.703+/-0.156 $\chi^2$/NDF: 1858892.9/15

Left Out: 285.127+/-0.109 $\chi^2$/NDF:1930413.8/5

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 362.302+/-0.124 $\chi^2$/NDF:1741527.9/5

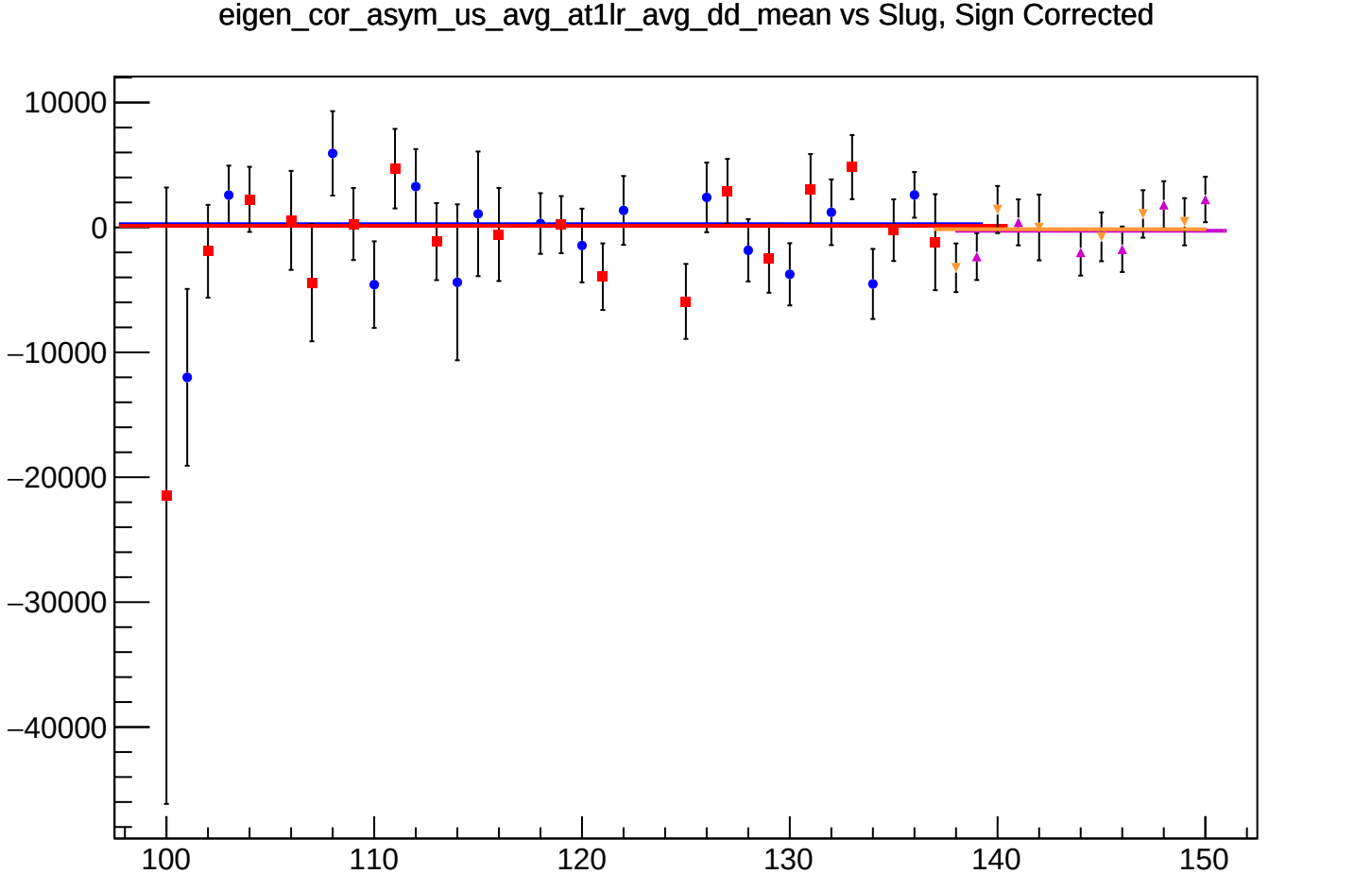
Left: 318.928+/-0.082 $\chi^2$/NDF: 3890665.1/11

Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 430.632+/-0.097 $\chi^2$/NDF:4388008.6/21

Out: 375.730+/-0.092 $\chi^2$/NDF:5100412.9/23

All: 401.668+/-0.067 $\chi^2$/NDF: 9658024.6/45




Right In: 259.689+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: -144.541+/-814.496 $\chi^2$/NDF:3.8/5

Right Out: 130.049+/-713.724 $\chi^2$/NDF: 18.0/17

Left In: -266.808+/-754.740 $\chi^2$/NDF:6.0/5

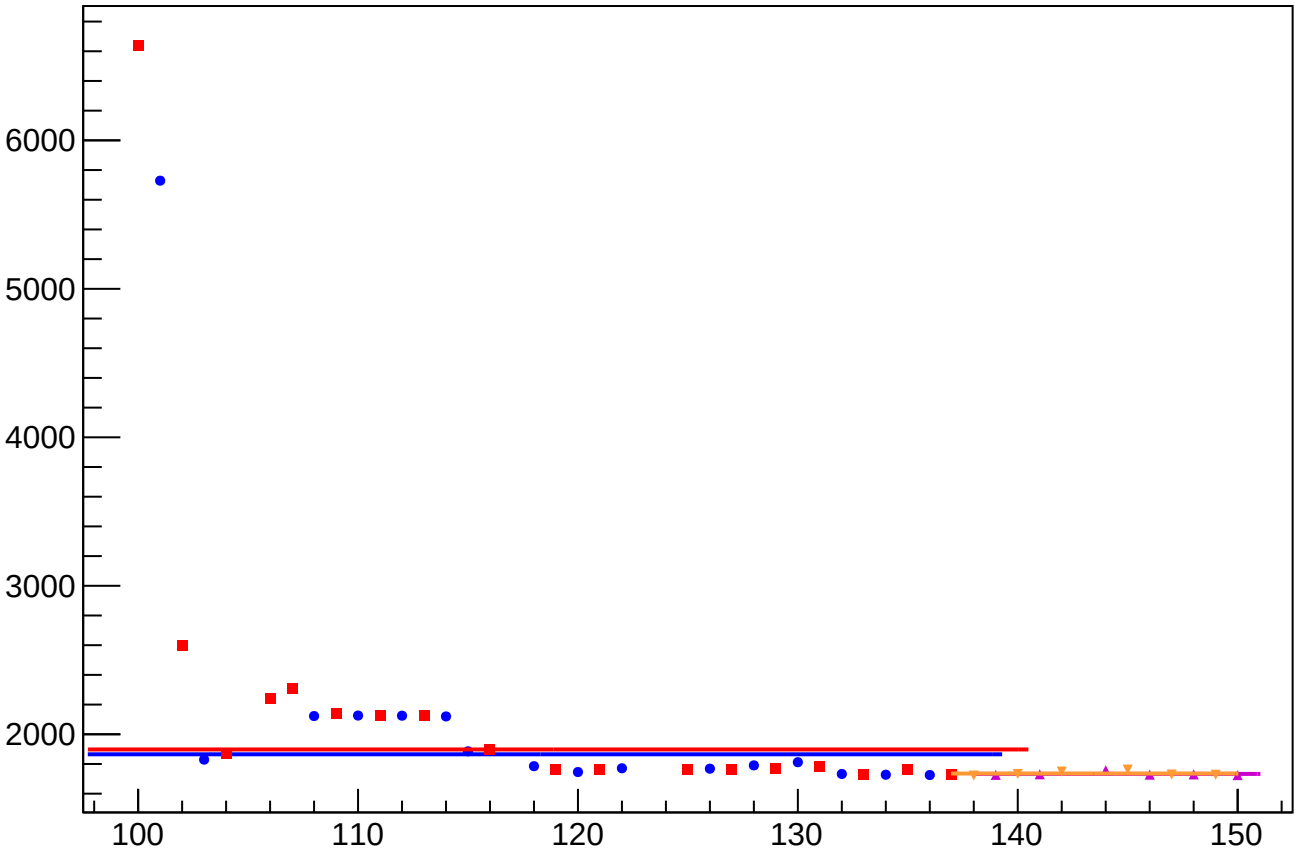
Left: -210.323+/-553.603 $\chi^2$/NDF: 9.8/11

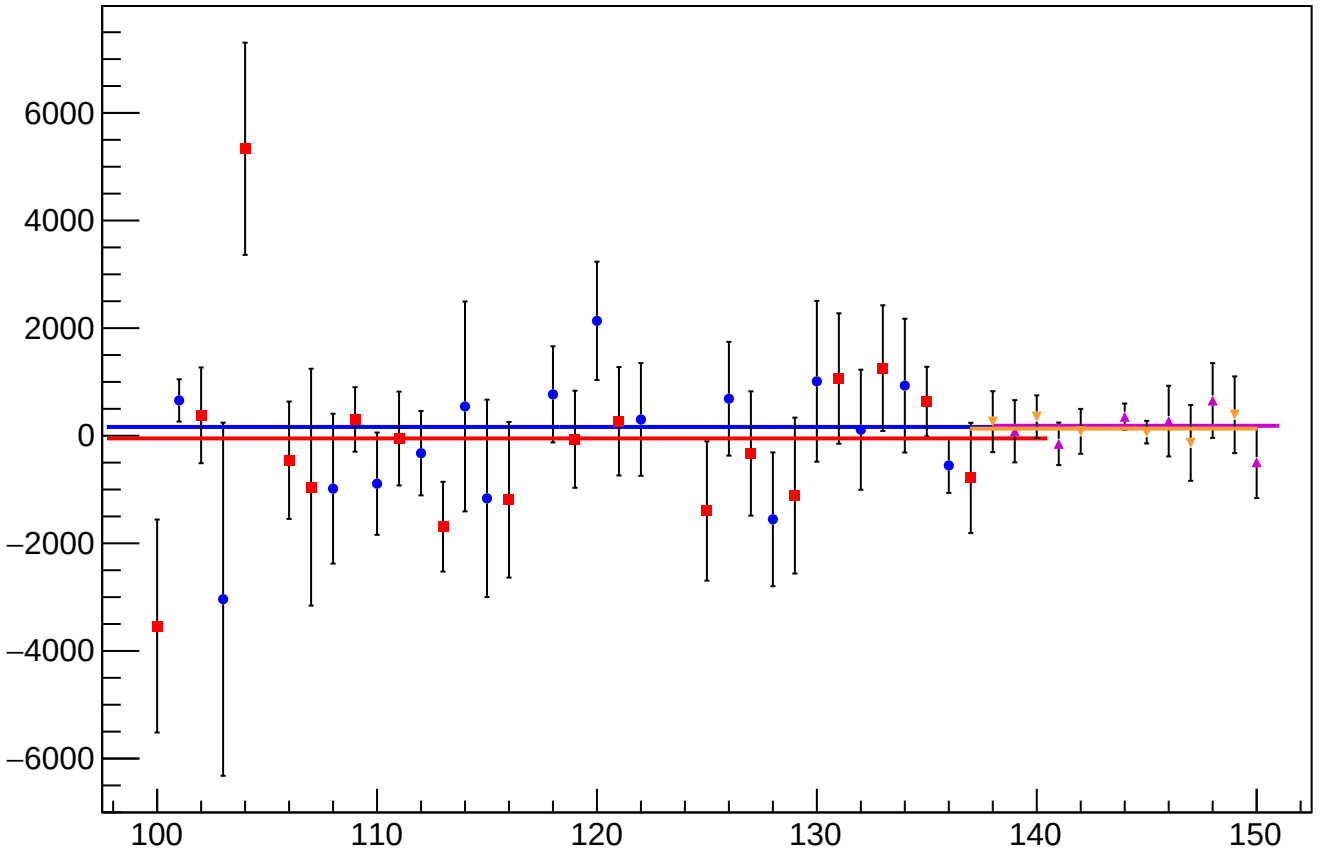
Right: 195.236+/-503.250 $\chi^2$/NDF: 37.4/33

In: 12.618+/-517.023 $\chi^2$/NDF:25.7/21

Out: 10.782+/-536.792 $\chi^2$/NDF:21.9/23

All: 11.735+/-372.383 $\chi^2$/NDF: 47.5/45


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
110
120
130
140
150
Right In: 1865.170+/-0.502 χ²/NDF: 672724.7/15
Left Out: 1735.558+/-0.576 χ²/NDF:580.4/5
Right Out: 1897.700+/-0.505 χ²/NDF: 257735.0/17
Left In: 1733.058+/-0.534 χ²/NDF:446.7/5
Left: 1734.213+/-0.391 χ²/NDF: 1037.2/11
Right: 1881.343+/-0.356 χ²/NDF: 932548.8/33
In: 1803.173+/-0.366 χ²/NDF:705694.6/21
Out: 1827.275+/-0.380 χ²/NDF:303148.5/23
All: 1814.772+/-0.263 χ²/NDF: 1010934.6/45




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 132.410+/-154.445 $\chi^2$/NDF:0.8/5

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 184.895+/-174.953 $\chi^2$/NDF:2.7/5

Left: 155.397+/-115.784 $\chi^2$/NDF: 3.5/11

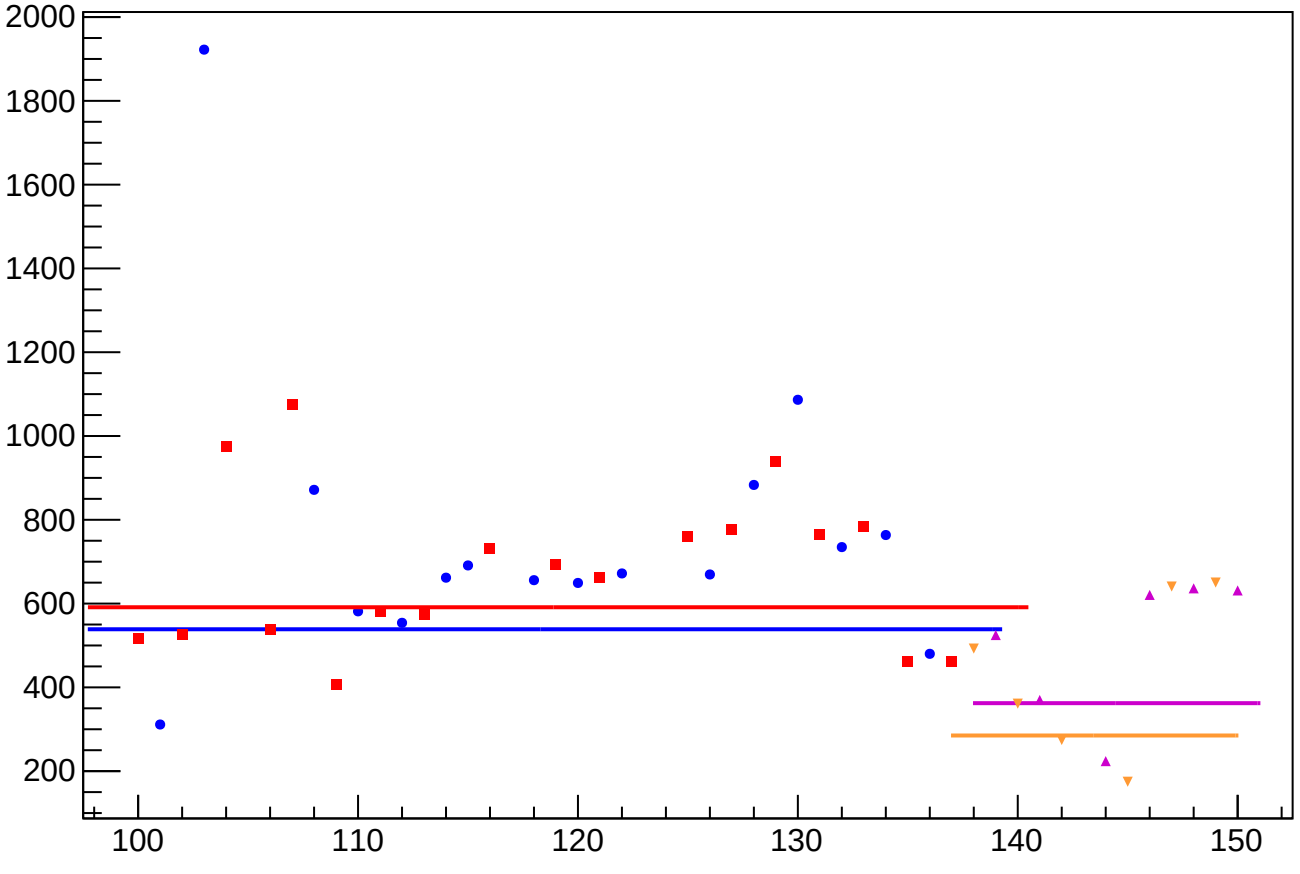
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 176.471+/-136.939 $\chi^2$/NDF:16.6/21

Out: 78.534+/-129.588 $\chi^2$/NDF:22.6/23

All: 124.804+/-94.124 $\chi^2$/NDF: 39.5/45

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.703+/-0.156 $\chi^2$/NDF: 1858892.9/15

Left Out: 285.127+/-0.109 $\chi^2$/NDF:1930413.8/5

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 362.302+/-0.124 $\chi^2$/NDF:1741527.9/5

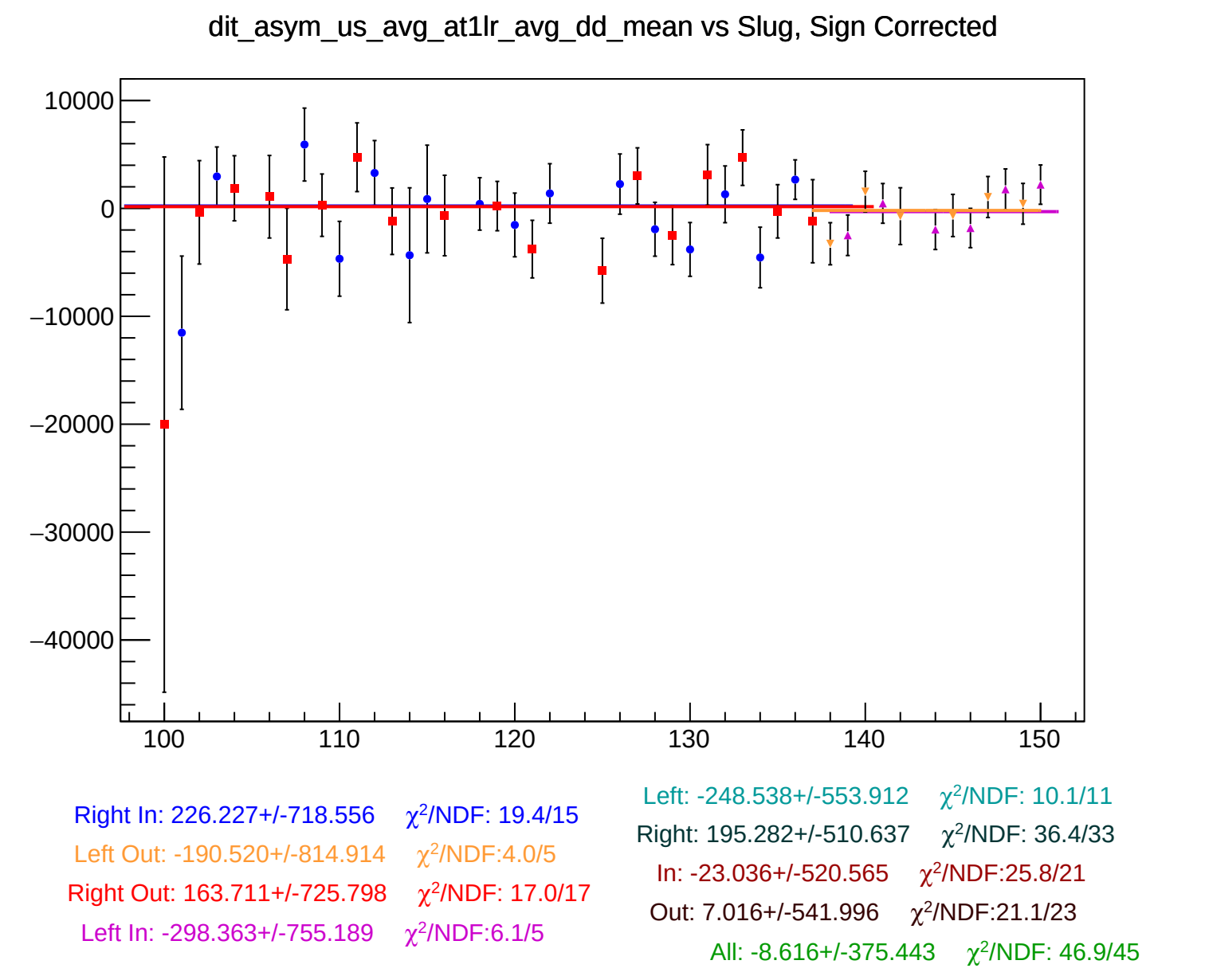
Left: 318.928+/-0.082 $\chi^2$/NDF: 3890665.1/11

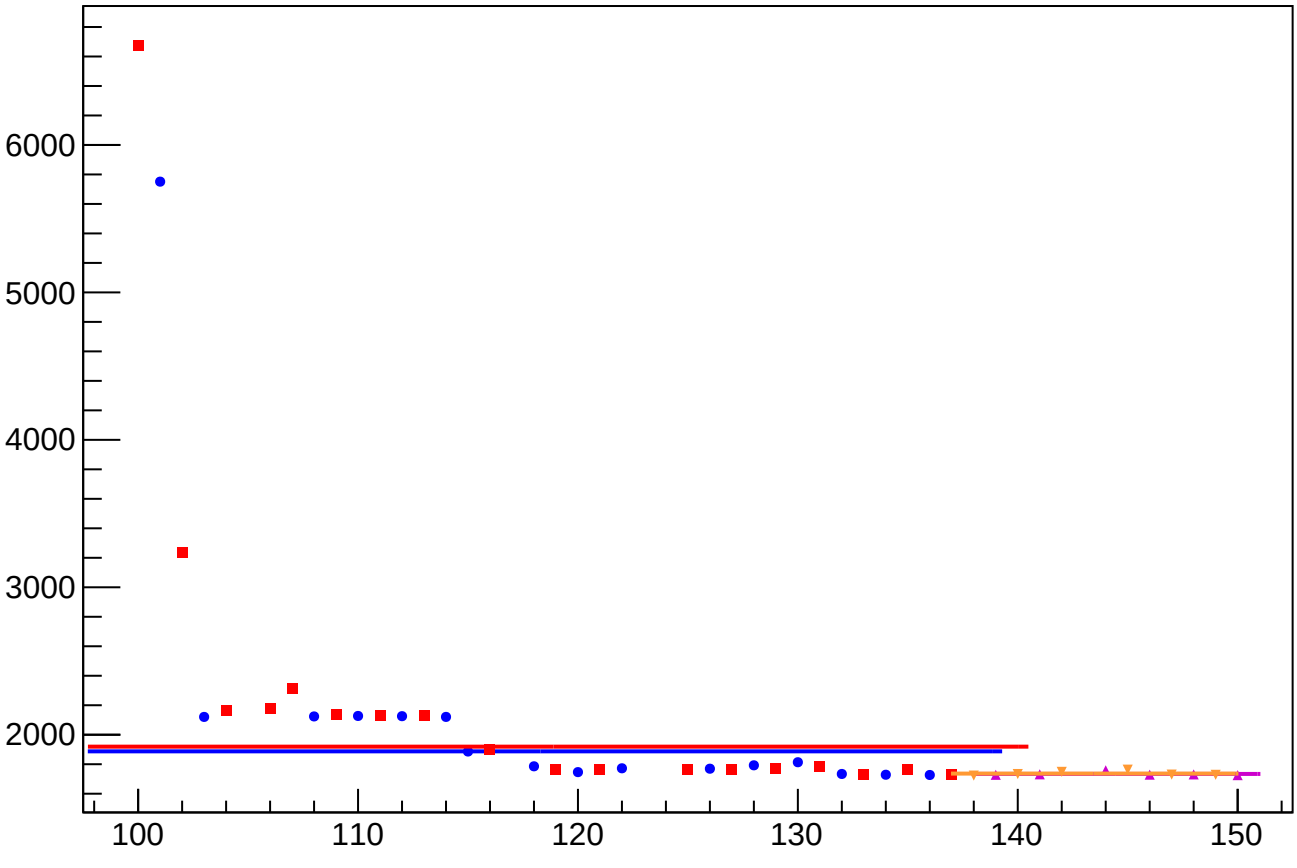
Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 430.632+/-0.097 $\chi^2$/NDF:4388008.6/21

Out: 375.730+/-0.092 $\chi^2$/NDF:5100412.9/23

All: 401.668+/-0.067 $\chi^2$/NDF: 9658024.6/45


dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: 226.227+/-718.556 χ²/NDF: 19.4/15
Left Out: -190.520+/-814.914 χ²/NDF:4.0/5
Right Out: 163.711+/-725.798 χ²/NDF: 17.0/17
Left In: -298.363+/-755.189 χ²/NDF:6.1/5
Left: -248.538+/-553.912 χ²/NDF: 10.1/11
Right: 195.282+/-510.637 χ²/NDF: 36.4/33
In: -23.036+/-520.565 χ²/NDF:25.8/21
Out: 7.016+/-541.996 χ²/NDF:21.1/23
All: -8.616+/-375.443 χ²/NDF: 46.9/45




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.6/15

Left Out: 1736.445+/-0.576 $\chi^2$/NDF:577.4/5

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352567.1/17

Left In: 1734.086+/-0.534 $\chi^2$/NDF:439.2/5

Left: 1735.176+/-0.392 $\chi^2$/NDF: 1025.6/11

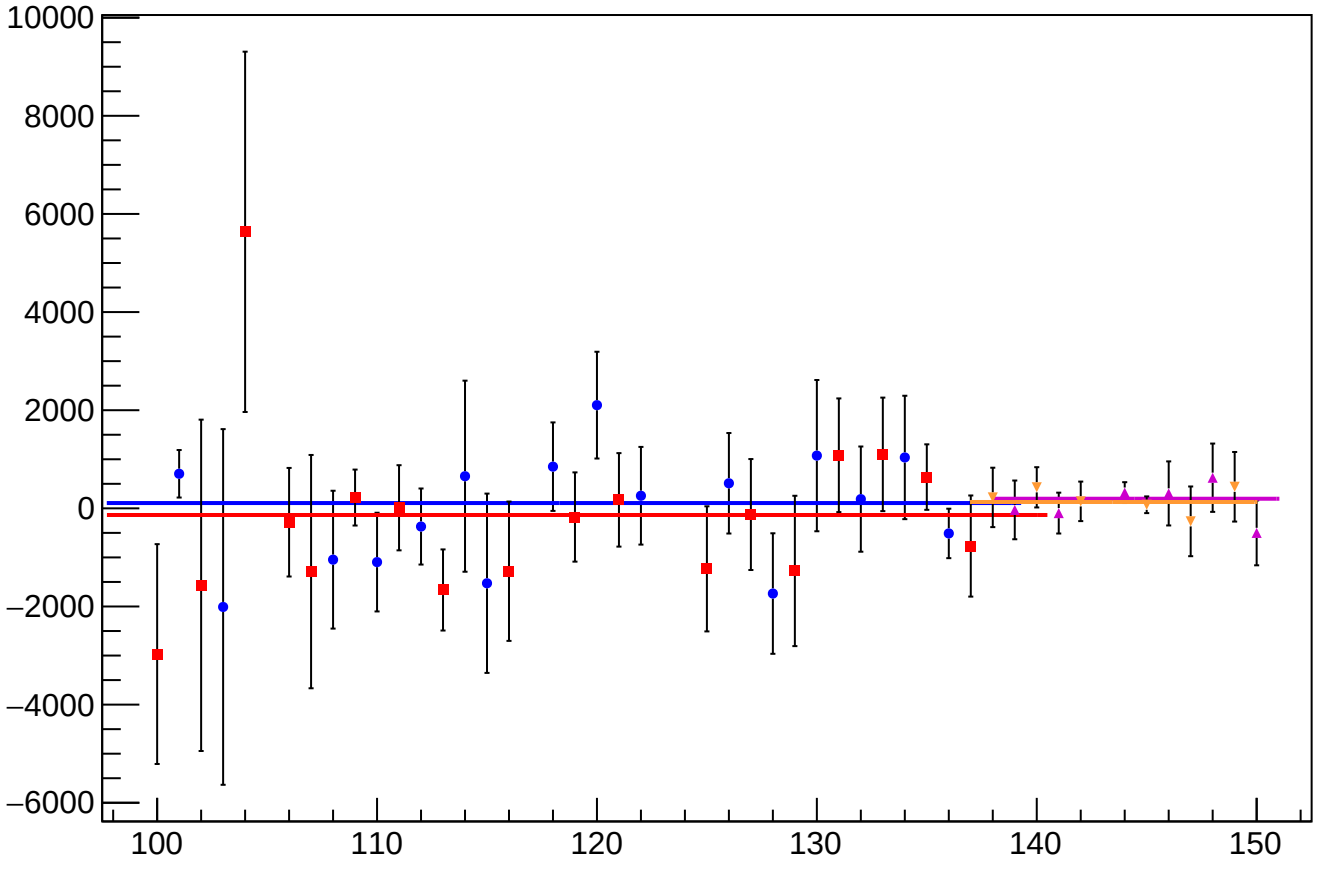
Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043955.3/33

In: 1814.505+/-0.368 $\chi^2$/NDF:733093.3/21

Out: 1838.338+/-0.383 $\chi^2$/NDF:409215.2/23

All: 1825.941+/-0.265 $\chi^2$/NDF: 1144320.1/45

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 108.131+/-231.711 $\chi^2$/NDF: 14.2/15

Left Out: 129.640+/-136.997 $\chi^2$/NDF:1.2/5

Right Out: -135.358+/-245.933 $\chi^2$/NDF: 14.4/17

Left In: 195.922+/-163.411 $\chi^2$/NDF:2.5/5

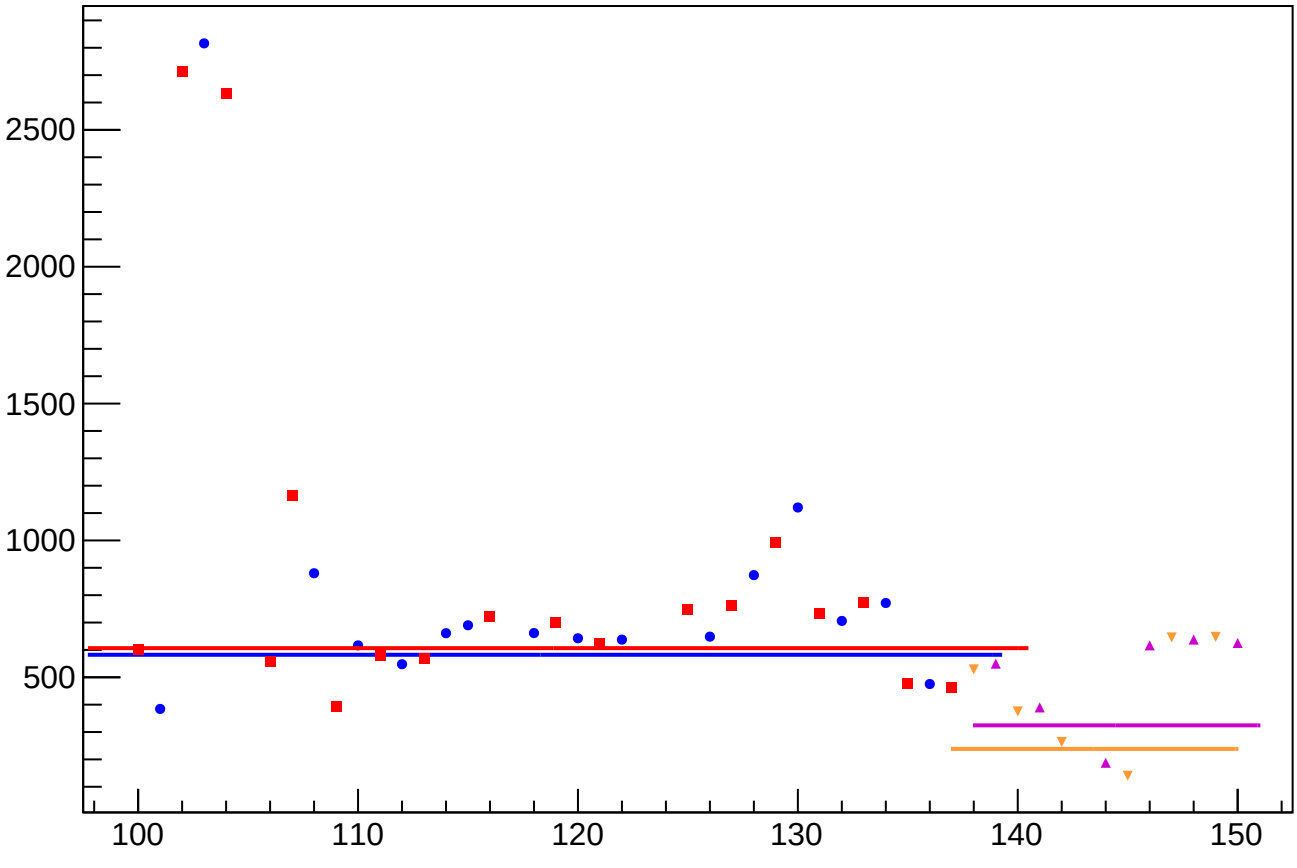
Left: 156.997+/-104.984 $\chi^2$/NDF: 3.8/11

Right: -6.369+/-168.648 $\chi^2$/NDF: 29.0/33

In: 166.761+/-133.542 $\chi^2$/NDF:16.7/21

Out: 66.884+/-119.681 $\chi^2$/NDF:16.4/23

All: 111.372+/-89.126 $\chi^2$/NDF: 33.5/45




Right In: 582.270+/-0.164 $\chi^2$/NDF: 1754301.3/15

Left Out: 238.337+/-0.097 $\chi^2$/NDF:2678578.6/5

Right Out: 606.451+/-0.174 $\chi^2$/NDF: 2198399.5/17

Left In: 324.378+/-0.116 $\chi^2$/NDF:2382851.5/5

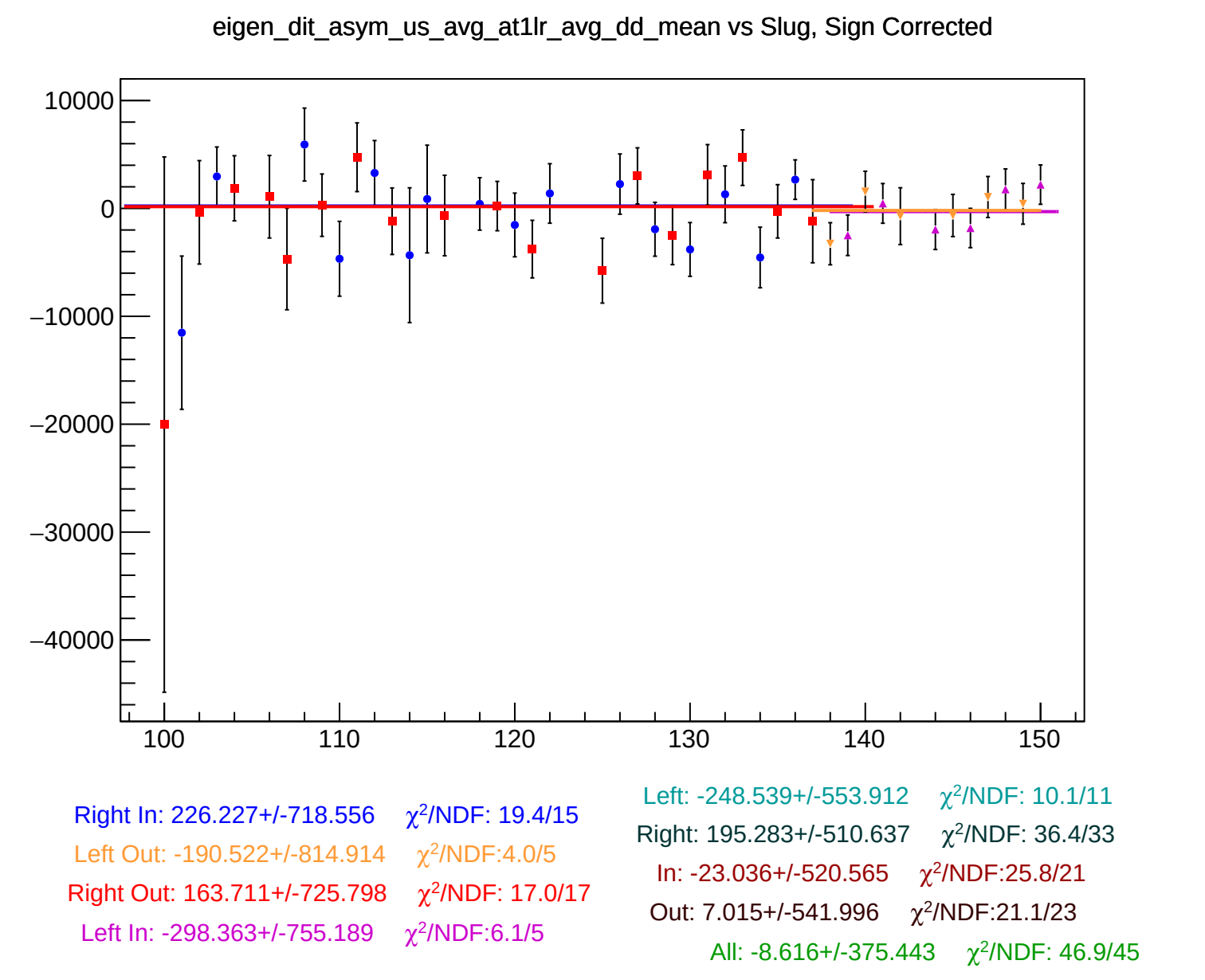
Left: 273.850+/-0.074 $\chi^2$/NDF: 5387042.0/11

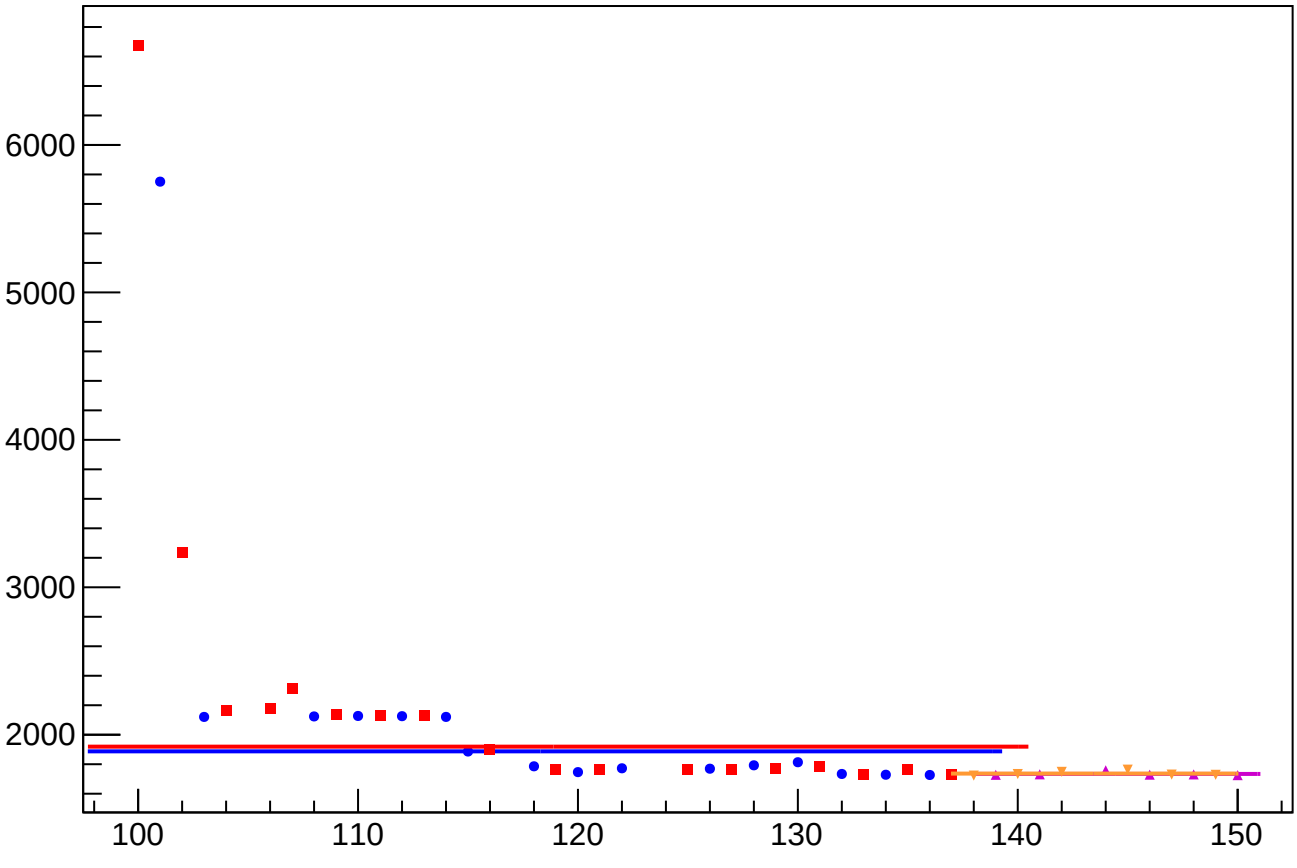
Right: 593.641+/-0.119 $\chi^2$/NDF: 3962943.2/33

In: 410.039+/-0.094 $\chi^2$/NDF:5791735.4/21

Out: 325.513+/-0.085 $\chi^2$/NDF:8296680.6/23

All: 363.163+/-0.063 $\chi^2$/NDF: 14532776.3/45


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: 226.227+/-718.556 χ²/NDF: 19.4/15
Left Out: -190.522+/-814.914 χ²/NDF:4.0/5
Right Out: 163.711+/-725.798 χ²/NDF: 17.0/17
Left In: -298.363+/-755.189 χ²/NDF:6.1/5
Left: -248.539+/-553.912 χ²/NDF: 10.1/11
Right: 195.283+/-510.637 χ²/NDF: 36.4/33
In: -23.036+/-520.565 χ²/NDF:25.8/21
Out: 7.015+/-541.996 χ²/NDF:21.1/23
All: -8.616+/-375.443 χ²/NDF: 46.9/45




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.4/15

Left Out: 1736.445+/-0.576 $\chi^2$/NDF:577.4/5

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352566.4/17

Left In: 1734.086+/-0.534 $\chi^2$/NDF:439.2/5

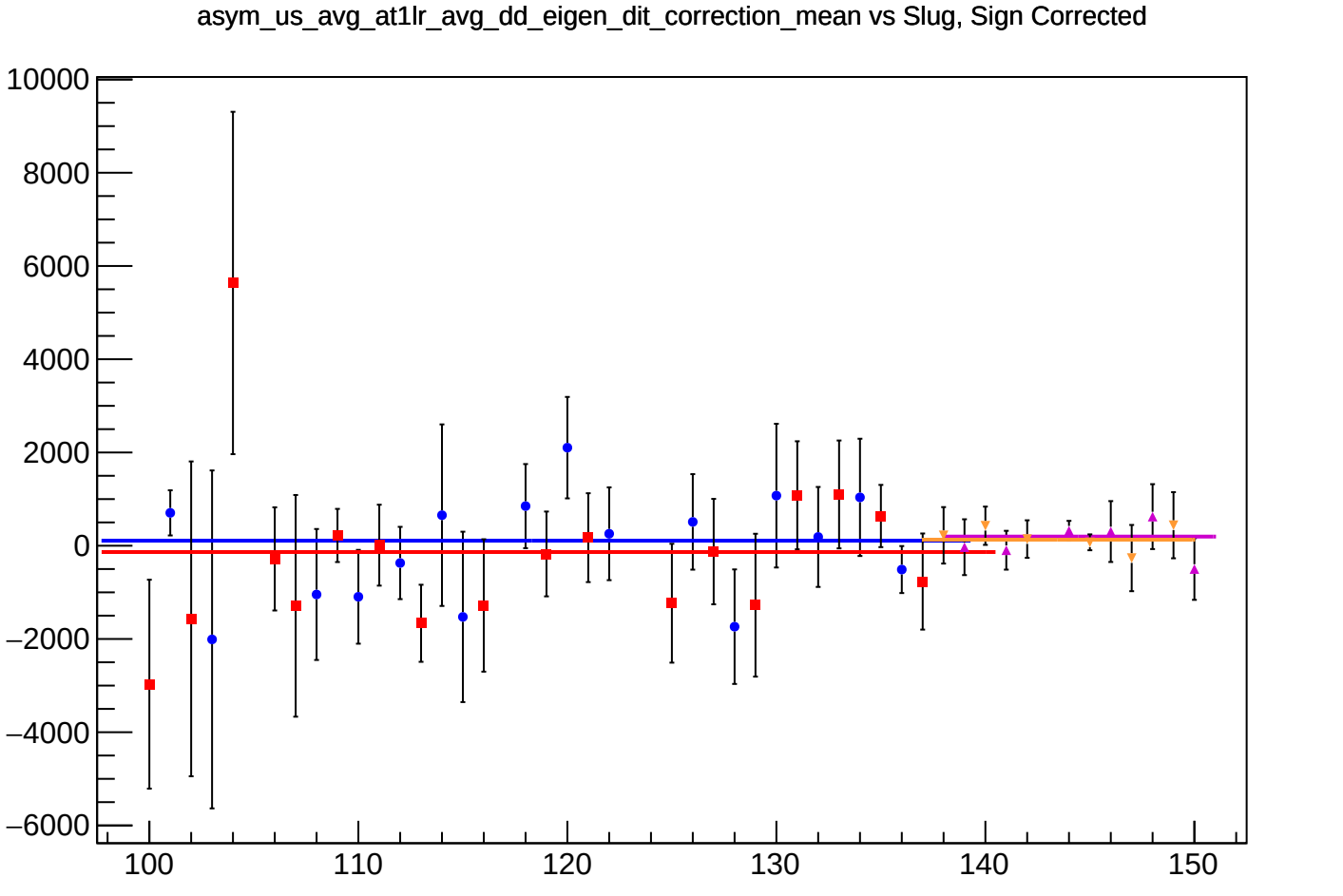
Left: 1735.176+/-0.392 $\chi^2$/NDF: 1025.6/11

Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043954.3/33

In: 1814.504+/-0.368 $\chi^2$/NDF:733093.0/21

Out: 1838.338+/-0.383 $\chi^2$/NDF:409214.4/23

All: 1825.941+/-0.265 $\chi^2$/NDF: 1144319.0/45




Right In: 108.128+/-231.710 $\chi^2$/NDF: 14.2/15

Left Out: 129.638+/-136.997 $\chi^2$/NDF:1.2/5

Right Out: -135.356+/-245.932 $\chi^2$/NDF: 14.4/17

Left In: 195.922+/-163.412 $\chi^2$/NDF:2.5/5

Left: 156.997+/-104.984 $\chi^2$/NDF: 3.8/11

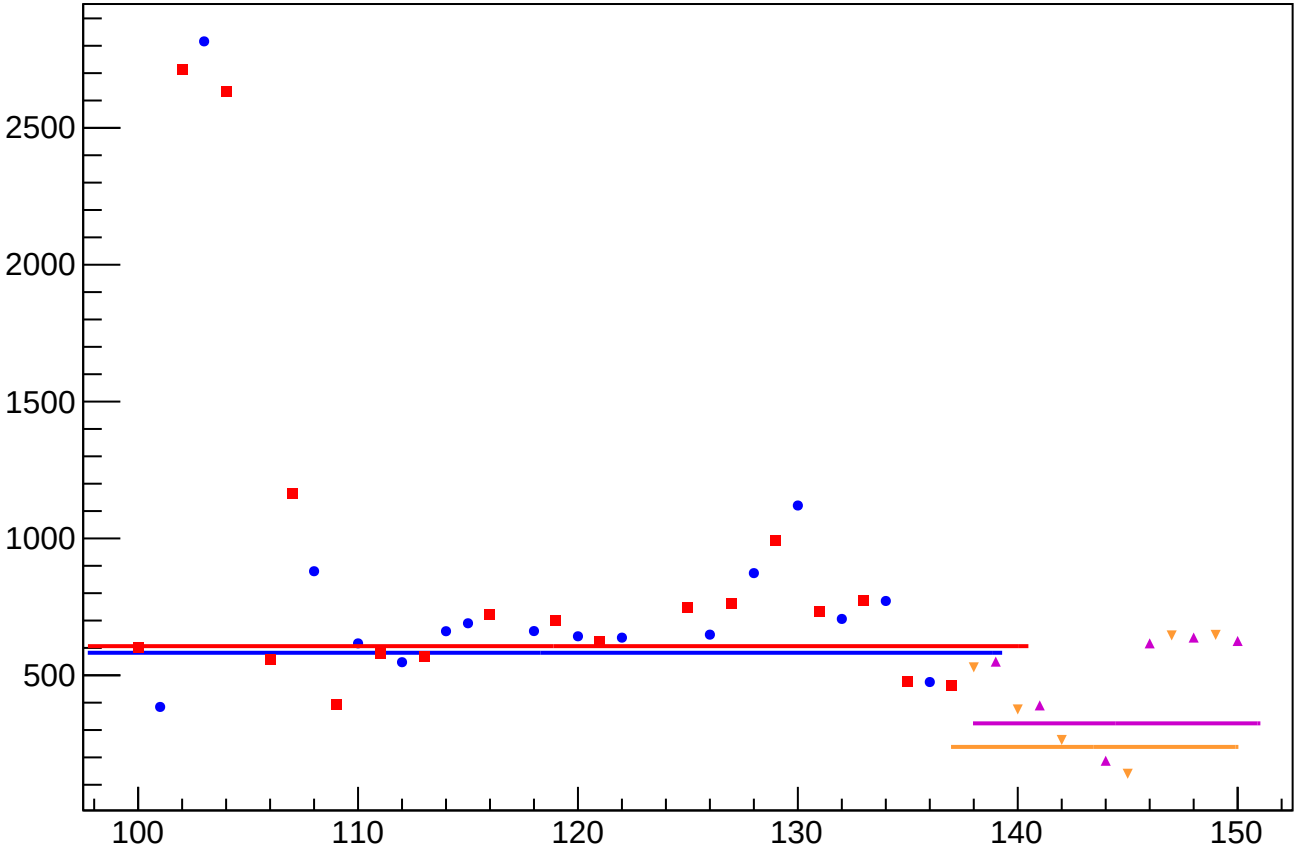
Right: -6.371+/-168.647 $\chi^2$/NDF: 29.0/33

In: 166.760+/-133.542 $\chi^2$/NDF:16.7/21

Out: 66.882+/-119.681 $\chi^2$/NDF:16.4/23

All: 111.370+/-89.126 $\chi^2$/NDF: 33.5/45

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 582.268+/-0.164 $\chi^2$/NDF: 1754289.3/15

Left Out: 238.337+/-0.097 $\chi^2$/NDF:2678594.0/5

Right Out: 606.447+/-0.174 $\chi^2$/NDF: 2198414.3/17

Left In: 324.378+/-0.116 $\chi^2$/NDF:2382860.9/5

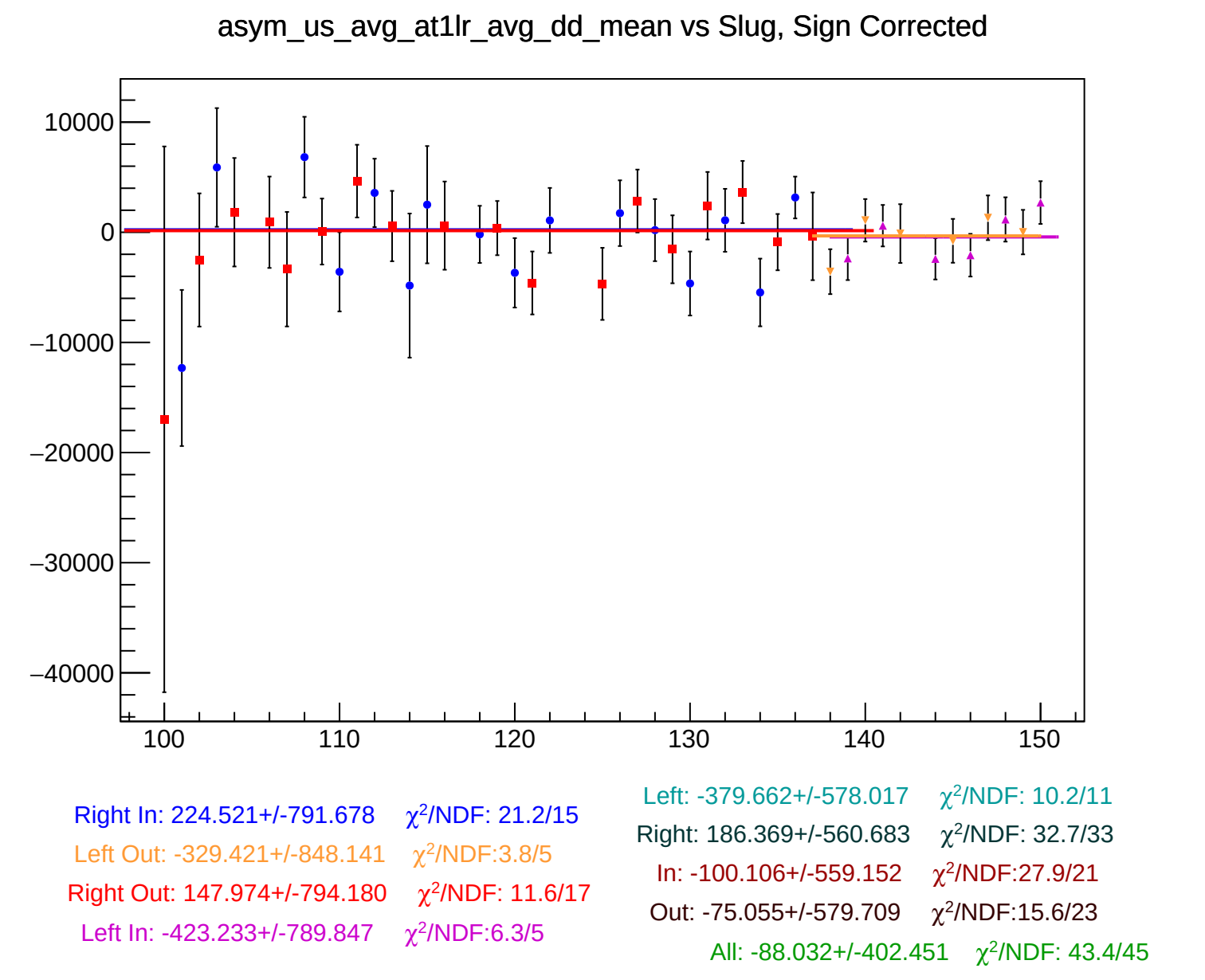
Left: 273.850+/-0.074 $\chi^2$/NDF: 5387069.2/11

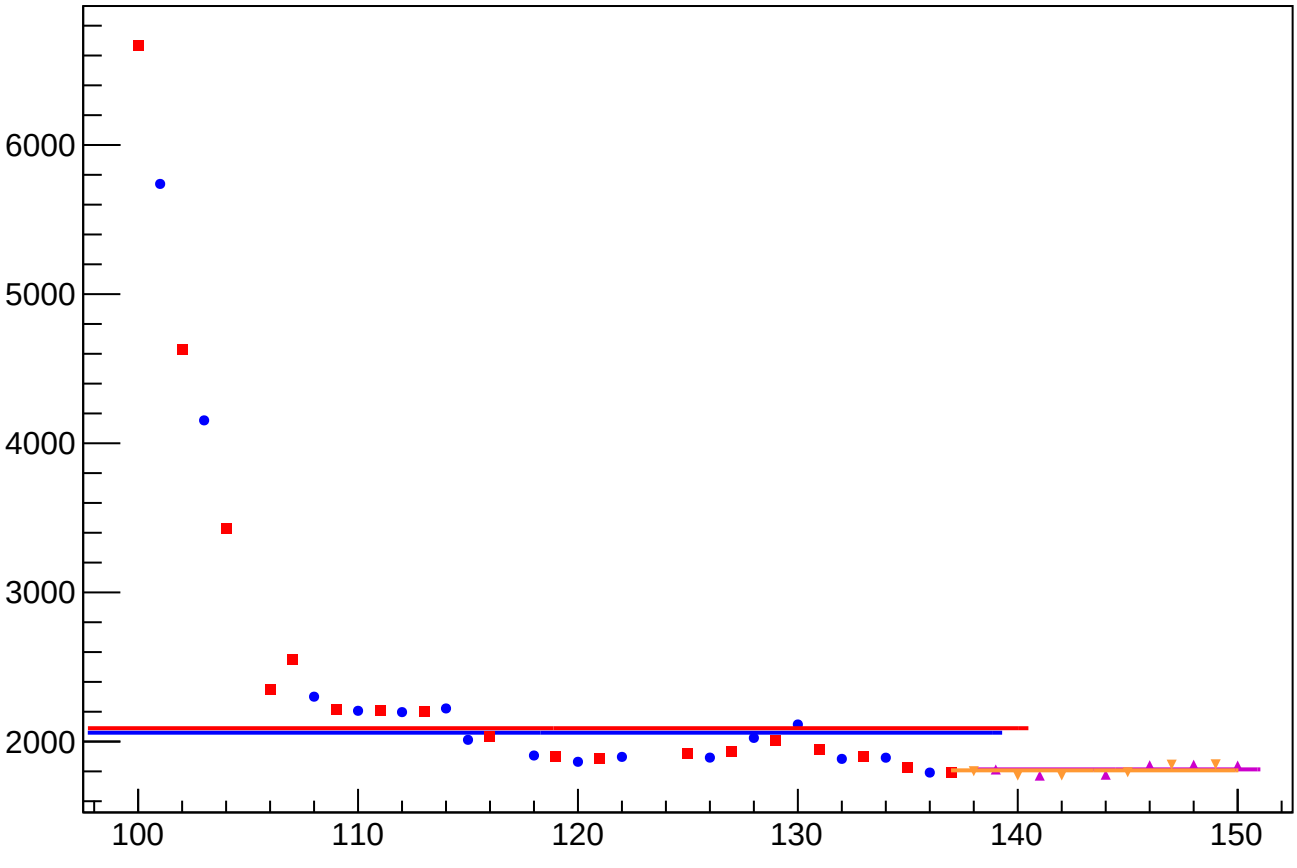
Right: 593.638+/-0.119 $\chi^2$/NDF: 3962944.4/33

In: 410.039+/-0.094 $\chi^2$/NDF:5791712.4/21

Out: 325.513+/-0.085 $\chi^2$/NDF:8296671.4/23

All: 363.163+/-0.063 $\chi^2$/NDF: 14532748.3/45


asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
Right In: 224.521+/-791.678 χ²/NDF: 21.2/15
Left Out: -329.421+/-848.141 χ²/NDF:3.8/5
Right Out: 147.974+/-794.180 χ²/NDF: 11.6/17
Left In: -423.233+/-789.847 χ²/NDF:6.3/5
Left: -379.662+/-578.017 χ²/NDF: 10.2/11
Right: 186.369+/-560.683 χ²/NDF: 32.7/33
In: -100.106+/-559.152 χ²/NDF:27.9/21
Out: -75.055+/-579.709 χ²/NDF:15.6/23
All: -88.032+/-402.451 χ²/NDF: 43.4/45




Right In: 2059.496+/-0.560 $\chi^2$/NDF: 939873.6/15

Left Out: 1806.998+/-0.600 $\chi^2$/NDF:2592.0/5

Right Out: 2089.476+/-0.562 $\chi^2$/NDF: 681465.8/17

Left In: 1813.421+/-0.559 $\chi^2$/NDF:2955.1/5

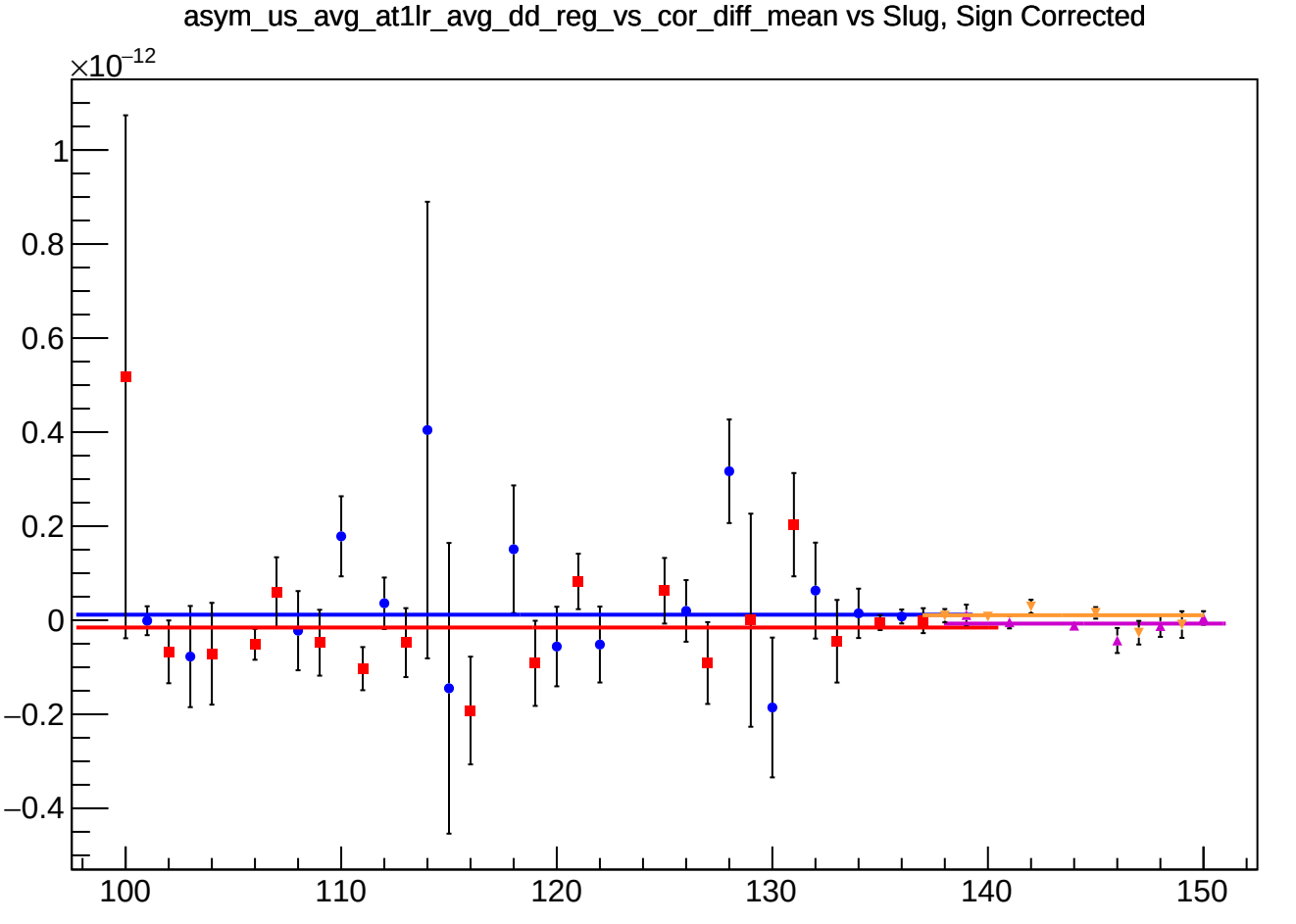
Left: 1810.438+/-0.409 $\chi^2$/NDF: 5608.6/11

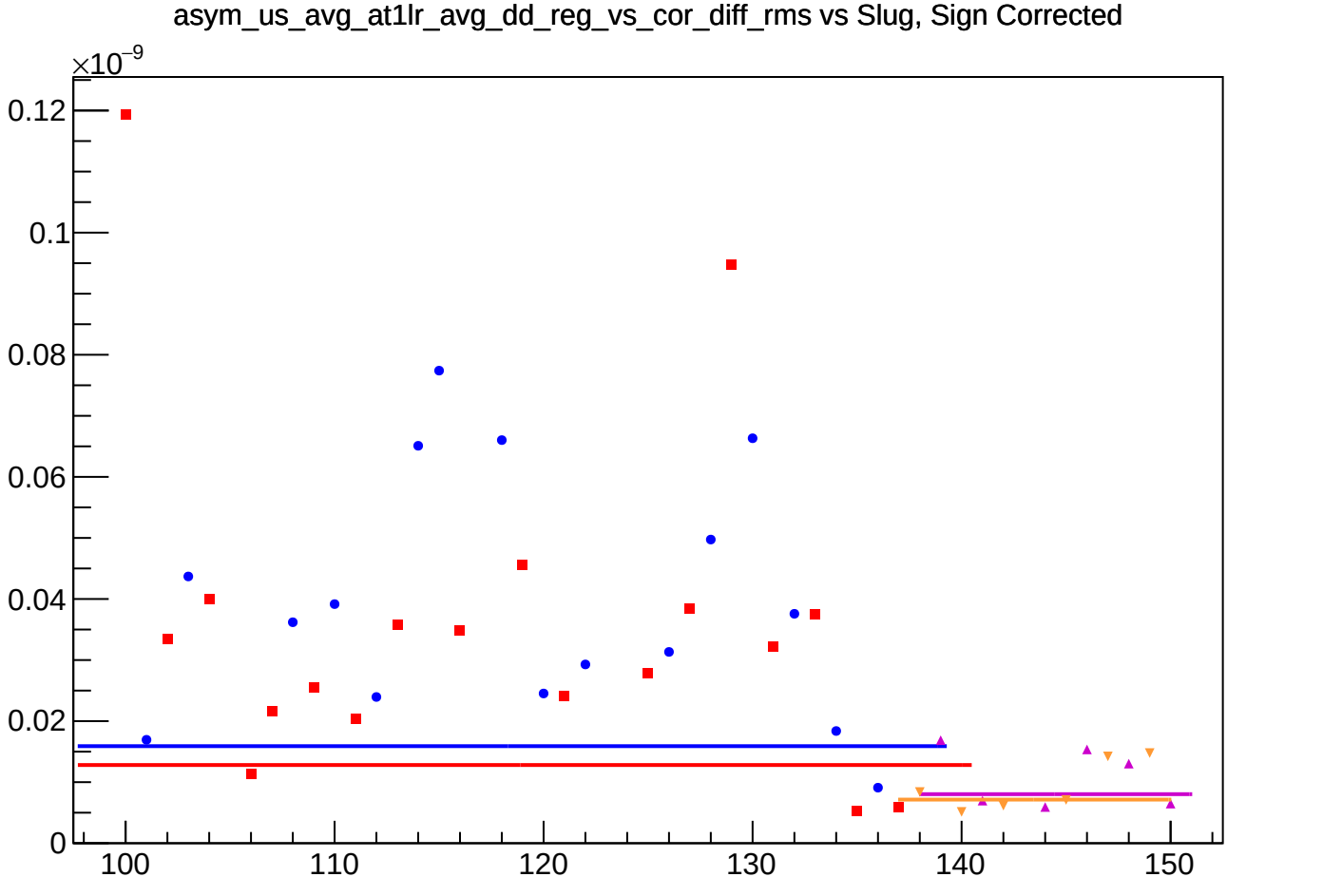
Right: 2074.439+/-0.396 $\chi^2$/NDF: 1622768.9/33

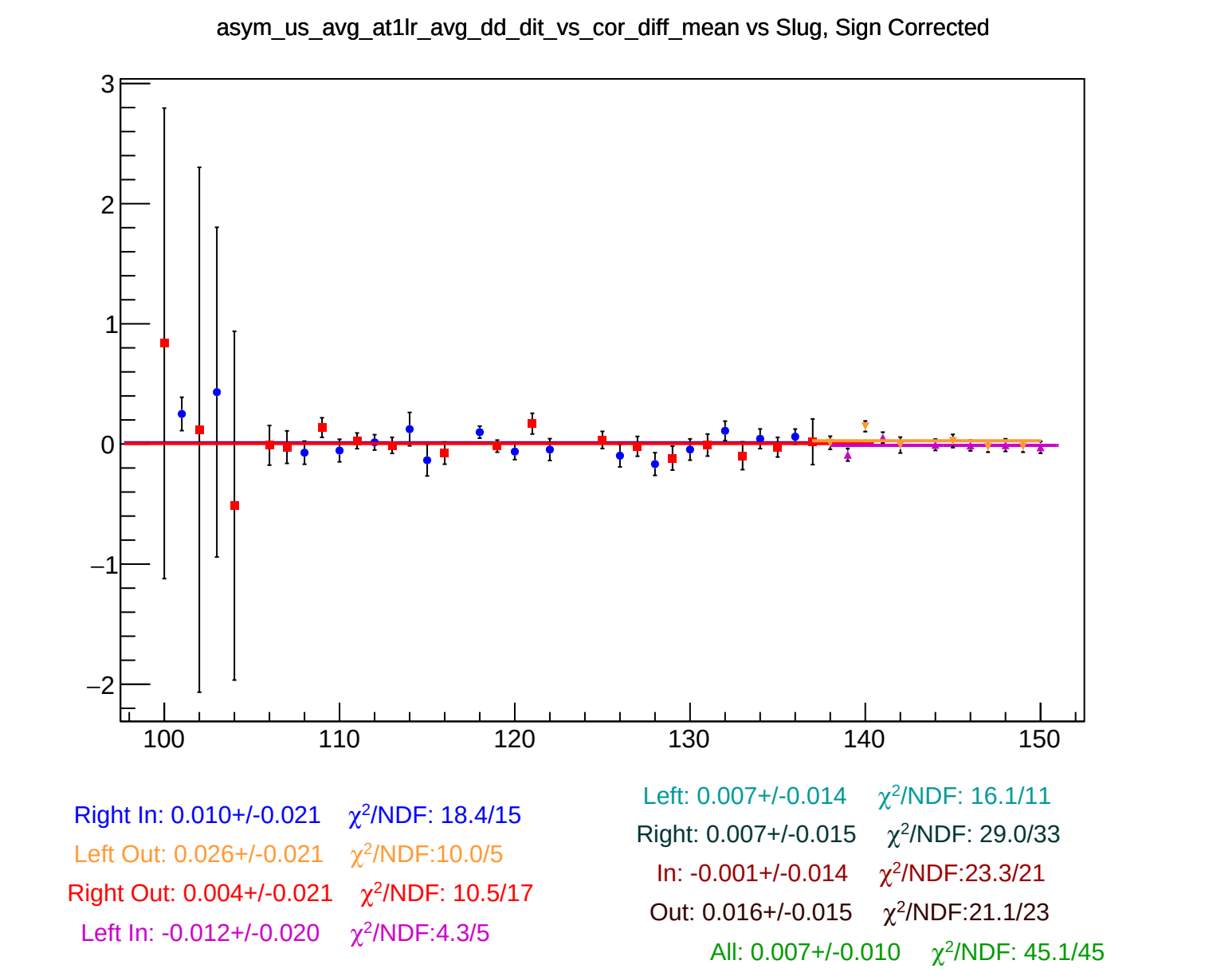
In: 1936.174+/-0.395 $\chi^2$/NDF:1039665.9/21

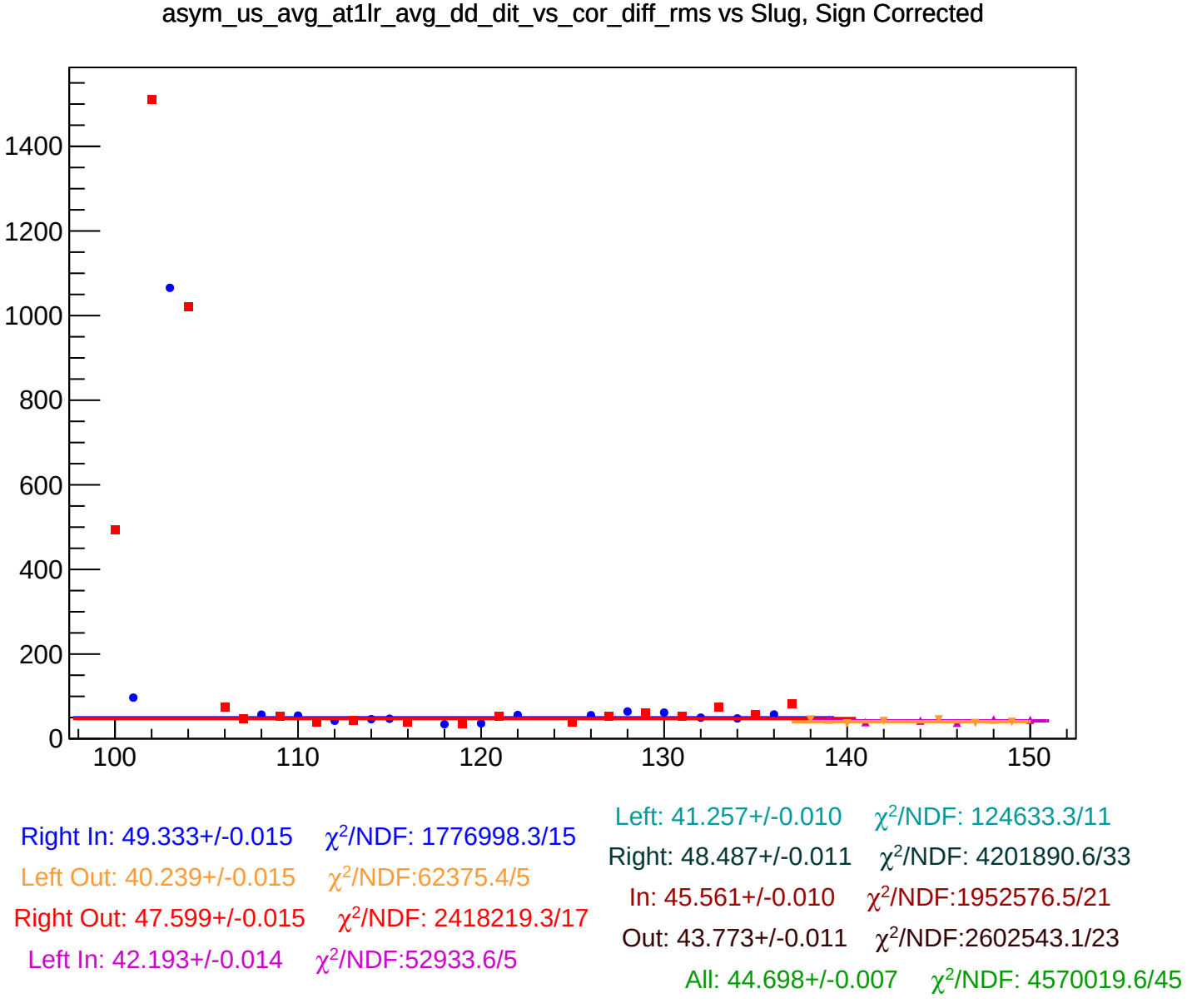
Out: 1957.509+/-0.410 $\chi^2$/NDF:802266.1/23

All: 1946.456+/-0.285 $\chi^2$/NDF: 1843335.3/45

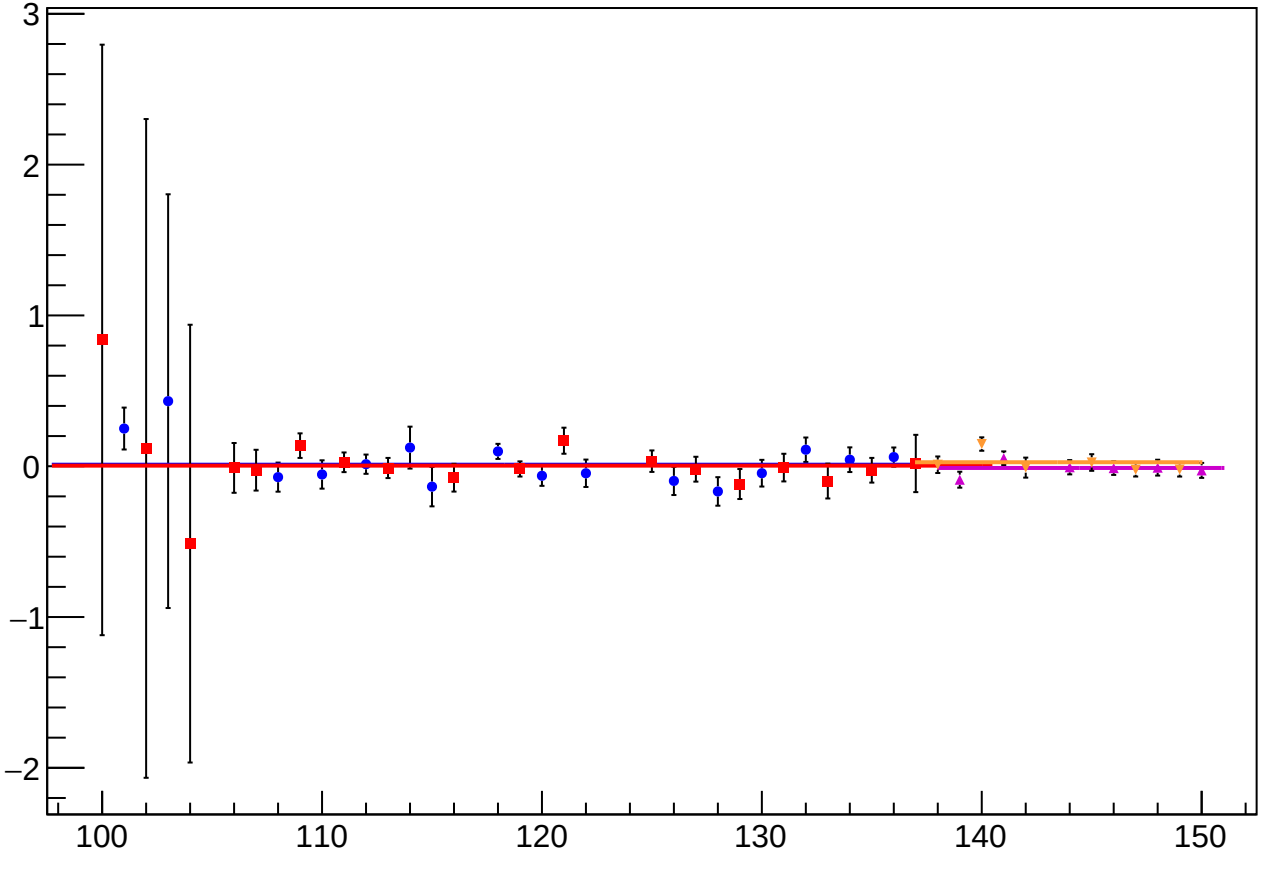

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 18.0/15
Left Out: 0.000+/-0.000 χ²/NDF:4.6/5
Right Out: -0.000+/-0.000 χ²/NDF: 20.7/17
Left In: -0.000+/-0.000 χ²/NDF:3.6/5
Left: 0.000+/-0.000 χ²/NDF: 12.7/11
Right: -0.000+/-0.000 χ²/NDF: 41.8/33
In: -0.000+/-0.000 χ²/NDF:23.7/21
Out: 0.000+/-0.000 χ²/NDF:29.9/23
All: 0.000+/-0.000 χ²/NDF: 54.8/45


asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1935582.9/15
Left Out: 0.000+/-0.000 χ²/NDF:415400.5/5
Right Out: 0.000+/-0.000 χ²/NDF: 2486058.2/17
Left In: 0.000+/-0.000 χ²/NDF:711101.6/5
Left: 0.000+/-0.000 χ²/NDF: 1149402.3/11
Right: 0.000+/-0.000 χ²/NDF: 4498662.7/33
In: 0.000+/-0.000 χ²/NDF:3373467.7/21
Out: 0.000+/-0.000 χ²/NDF:3337045.3/23
All: 0.000+/-0.000 χ²/NDF: 6770775.7/45


asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected
3
2
1
0
−1
−2
100
110
120
130
140
150
Right In: 0.010+/-0.021 χ²/NDF: 18.4/15
Left Out: 0.026+/-0.021 χ²/NDF:10.0/5
Right Out: 0.004+/-0.021 χ²/NDF: 10.5/17
Left In: -0.012+/-0.020 χ²/NDF:4.3/5
Left: 0.007+/-0.014 χ²/NDF: 16.1/11
Right: 0.007+/-0.015 χ²/NDF: 29.0/33
In: -0.001+/-0.014 χ²/NDF:23.3/21
Out: 0.016+/-0.015 χ²/NDF:21.1/23
All: 0.007+/-0.010 χ²/NDF: 45.1/45


asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected
1400
1200
1000
800
600
400
200
0
100
110
120
130
140
150
Right In: 49.333+/-0.015 χ2/NDF: 1776998.3/15
Left Out: 40.239+/-0.015 χ2/NDF:62375.4/5
Right Out: 47.599+/-0.015 χ2/NDF: 2418219.3/17
Left In: 42.193+/-0.014 χ2/NDF:52933.6/5
Left: 41.257+/-0.010 χ2/NDF: 124633.3/11
Right: 48.487+/-0.011 χ2/NDF: 4201890.6/33
In: 45.561+/-0.010 χ2/NDF:1952576.5/21
Out: 43.773+/-0.011 χ2/NDF:2602543.1/23
All: 44.698+/-0.007 χ2/NDF: 4570019.6/45

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.026+/-0.021 $\chi^2$/NDF:10.0/5

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: -0.012+/-0.020 $\chi^2$/NDF:4.3/5

Left: 0.007+/-0.014 $\chi^2$/NDF: 16.1/11

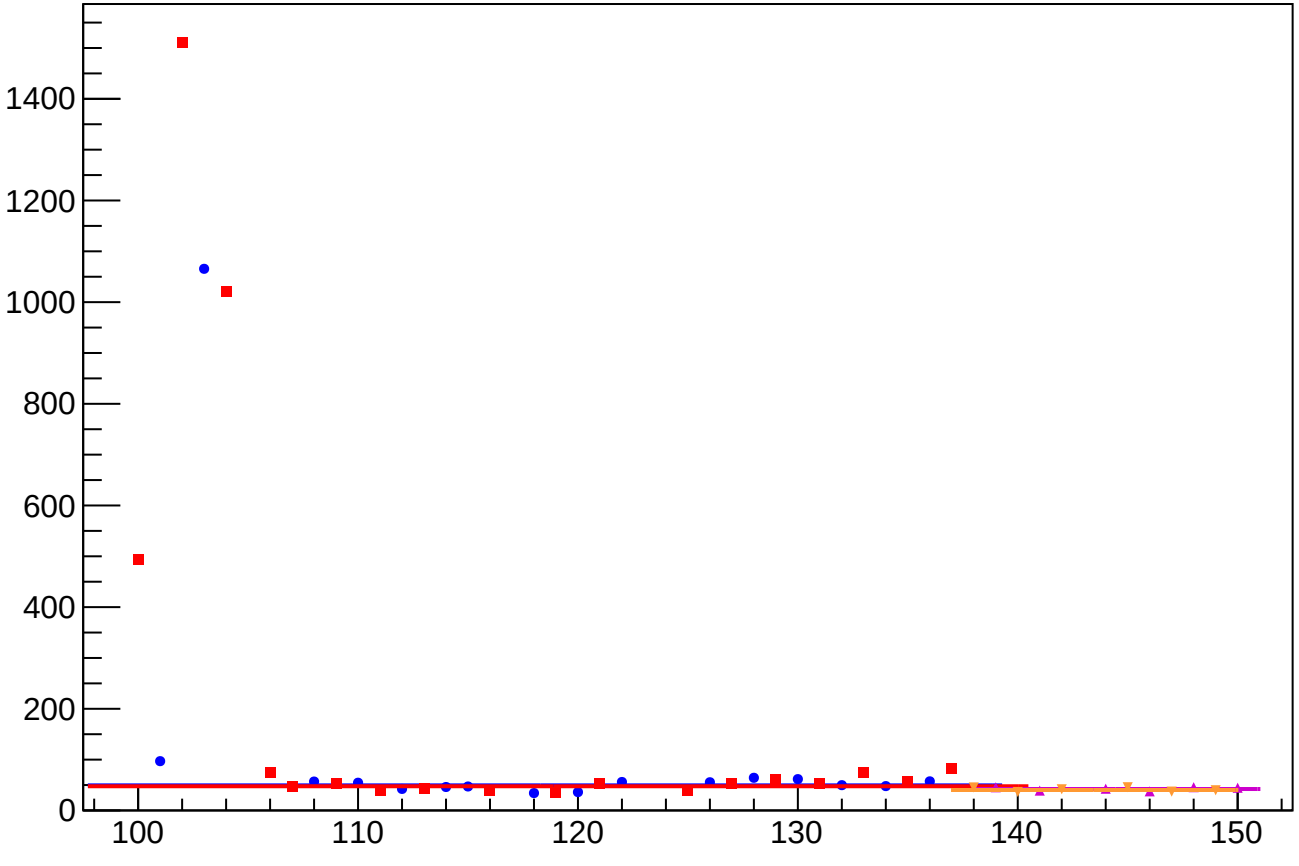
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: -0.001+/-0.014 $\chi^2$/NDF:23.3/21

Out: 0.016+/-0.015 $\chi^2$/NDF:21.1/23

All: 0.007+/-0.010 $\chi^2$/NDF: 45.1/45

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776998.3/15

Left Out: 40.239+/-0.015 $\chi^2$/NDF:62375.4/5

Right Out: 47.599+/-0.015 $\chi^2$/NDF: 2418219.3/17

Left In: 42.193+/-0.014 $\chi^2$/NDF:52933.6/5

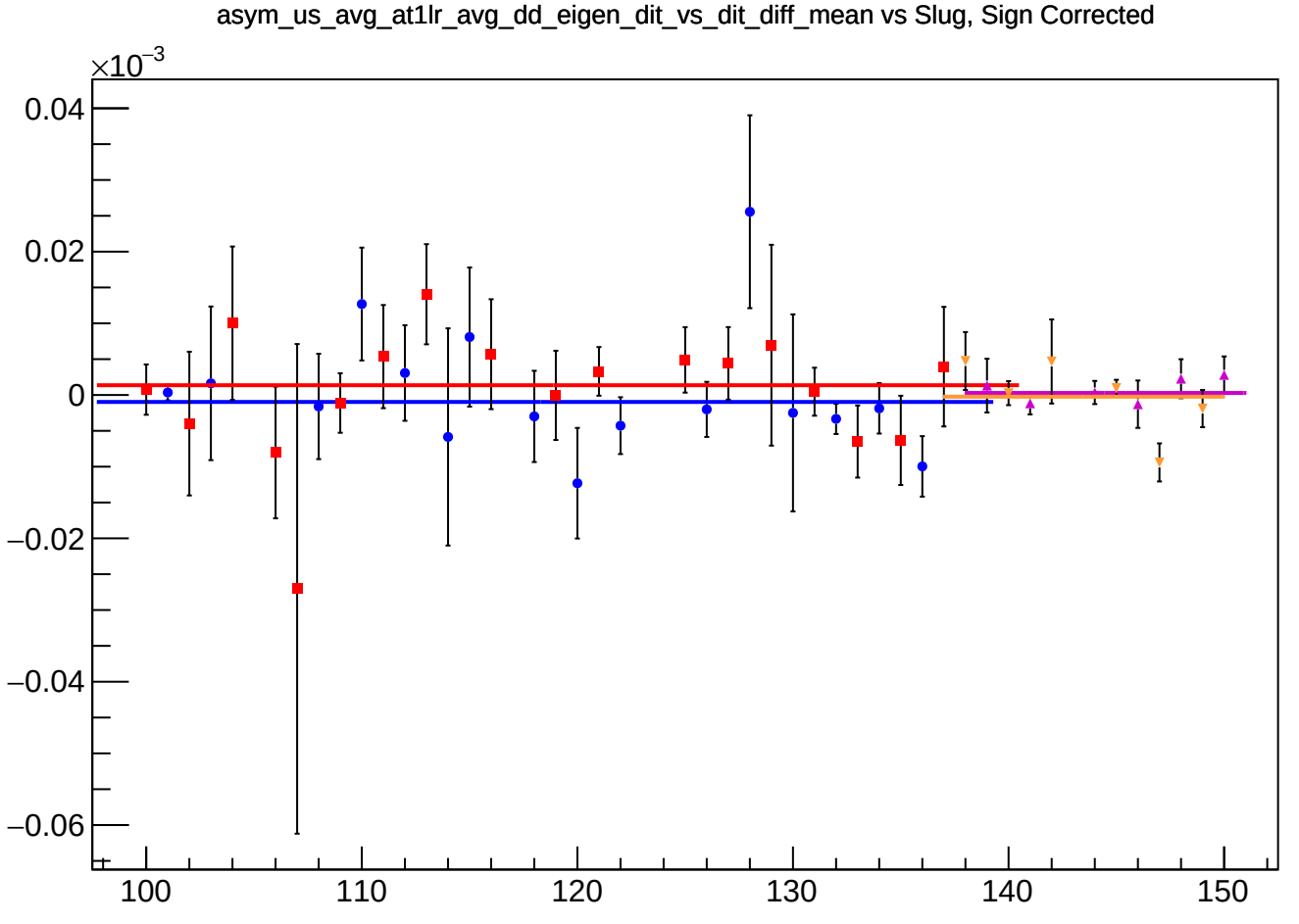
Left: 41.257+/-0.010 $\chi^2$/NDF: 124633.3/11

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201890.6/33

In: 45.561+/-0.010 $\chi^2$/NDF:1952576.5/21

Out: 43.773+/-0.011 $\chi^2$/NDF:2602543.1/23

All: 44.698+/-0.007 $\chi^2$/NDF: 4570019.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 18.6/11

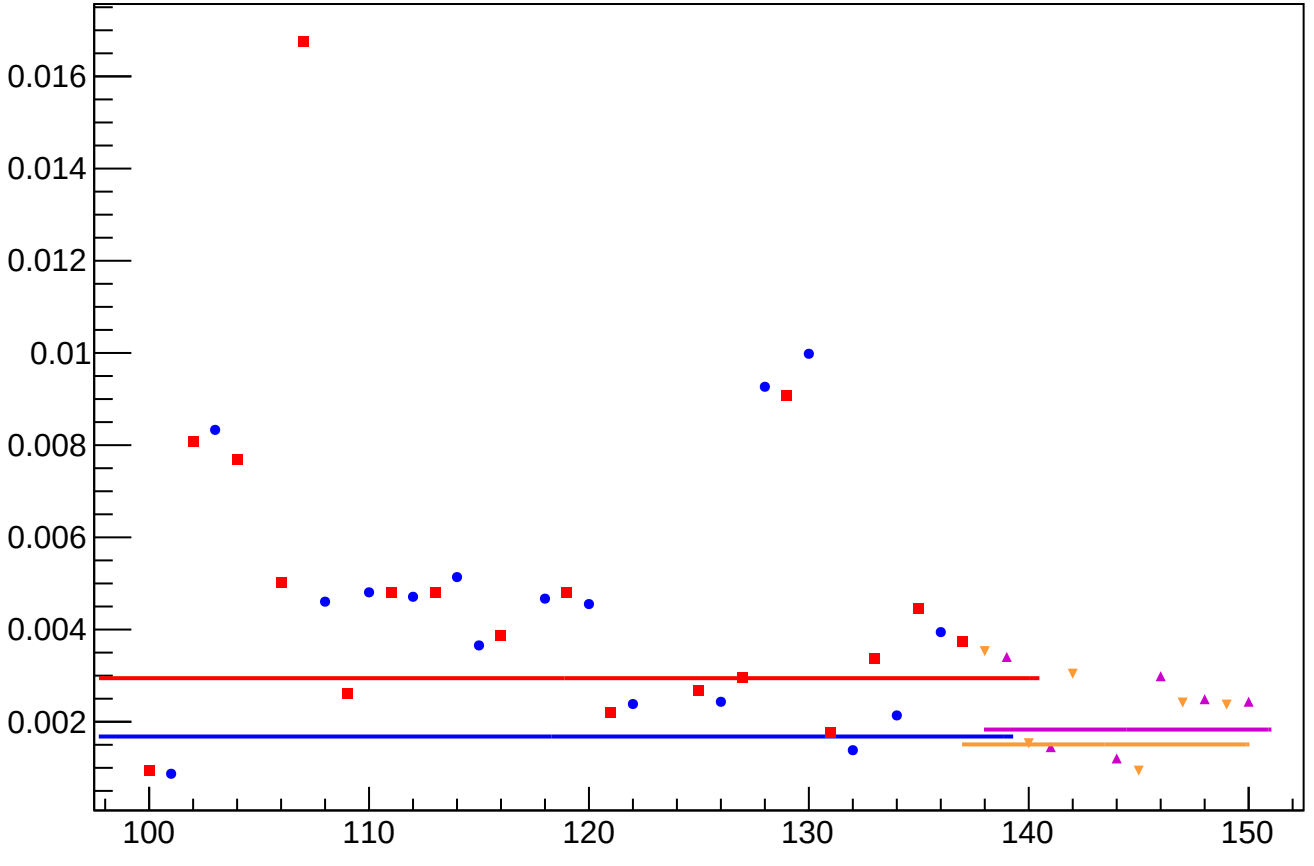
Right: -0.000+/-0.000 $\chi^2$/NDF: 33.6/33

In: -0.000+/-0.000 $\chi^2$/NDF:22.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.3/45

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5960235.0/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1587079.4/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3379848.5/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:1247261.3/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 2975985.8/11

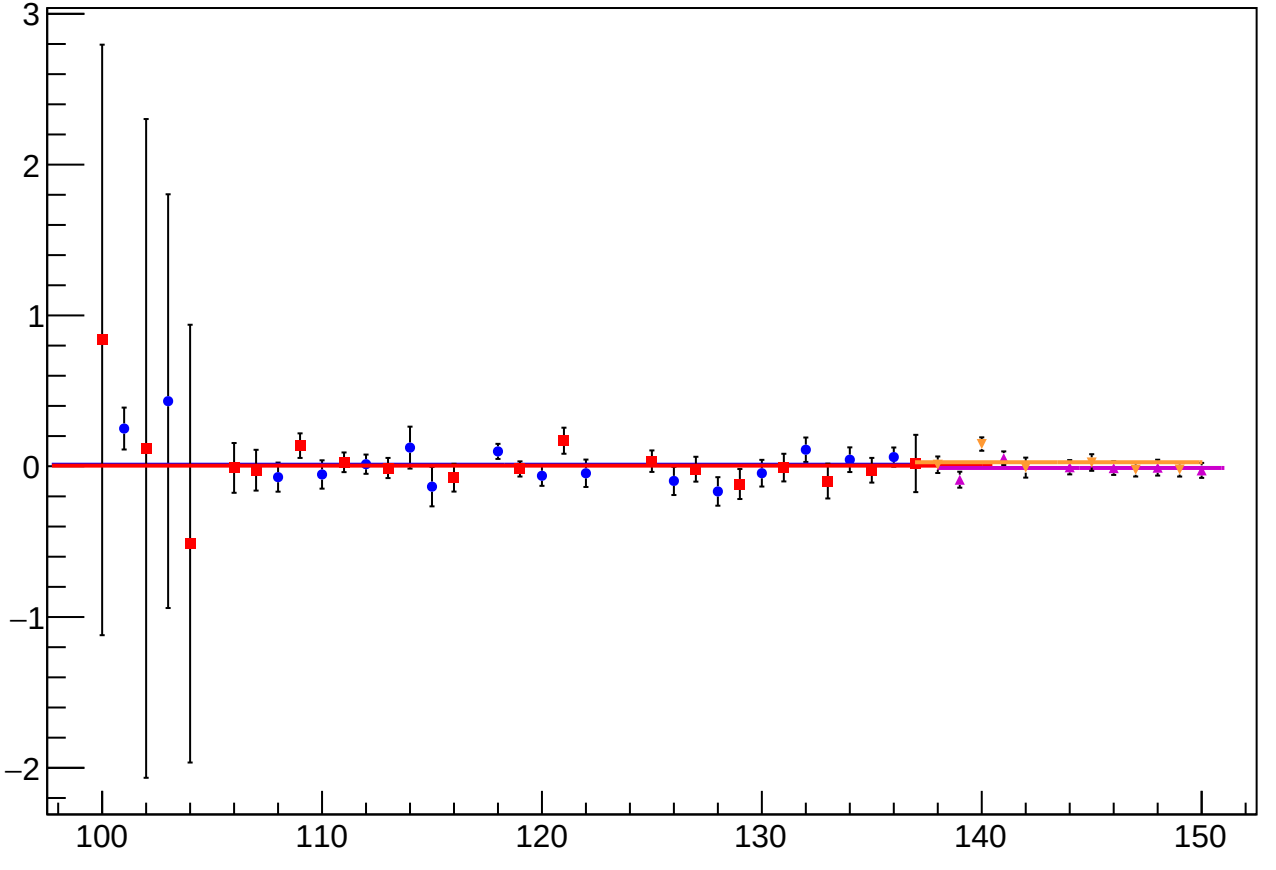
Right: 0.002+/-0.000 $\chi^2$/NDF: 10702272.5/33

In: 0.002+/-0.000 $\chi^2$/NDF:7238067.6/21

Out: 0.002+/-0.000 $\chi^2$/NDF:6739117.4/23

All: 0.002+/-0.000 $\chi^2$/NDF: 14045749.6/45

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.026+/-0.021 $\chi^2$/NDF:10.0/5

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: -0.012+/-0.020 $\chi^2$/NDF:4.3/5

Left: 0.007+/-0.014 $\chi^2$/NDF: 16.1/11

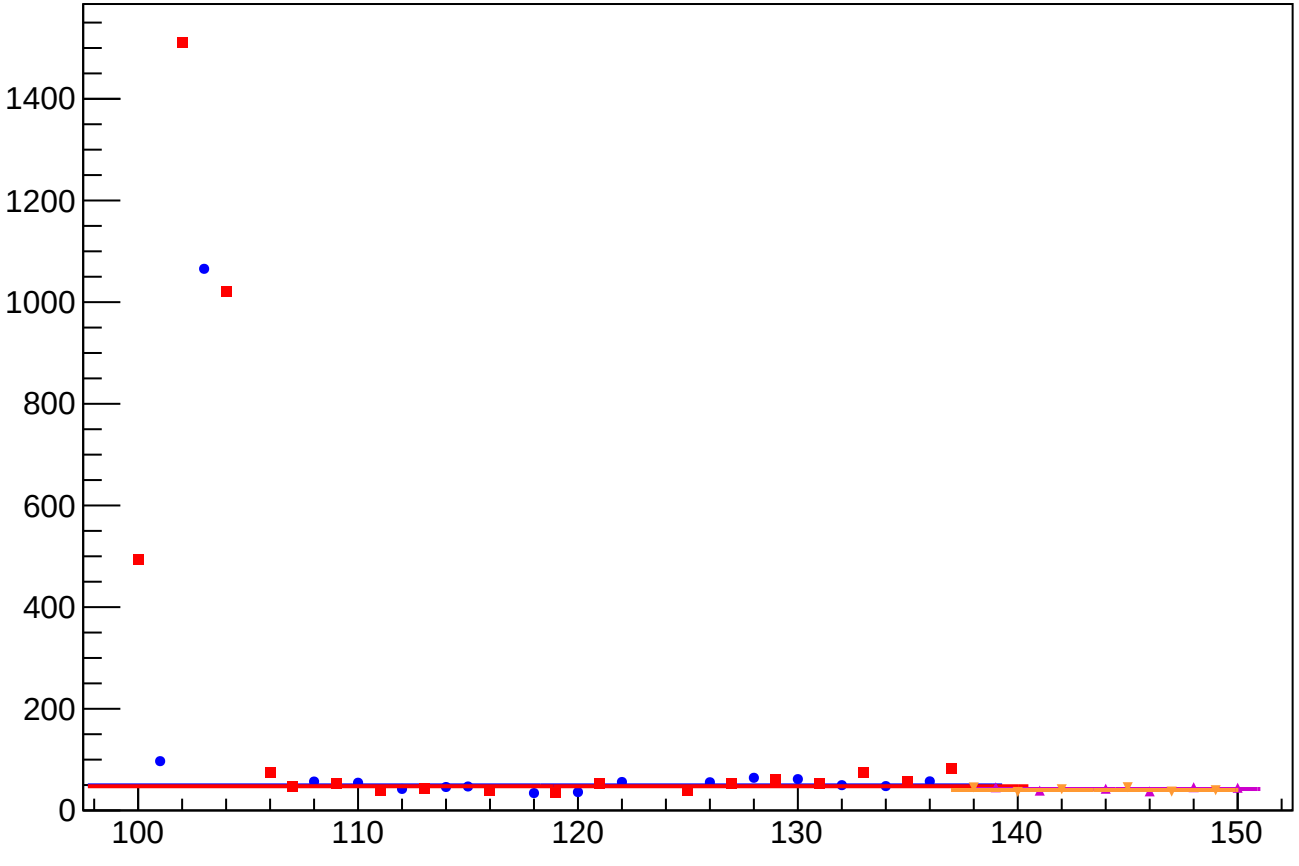
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: -0.001+/-0.014 $\chi^2$/NDF:23.3/21

Out: 0.016+/-0.015 $\chi^2$/NDF:21.1/23

All: 0.007+/-0.010 $\chi^2$/NDF: 45.1/45

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776926.6/15

Left Out: 40.240+/-0.015 $\chi^2$/NDF:62383.9/5

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 42.192+/-0.014 $\chi^2$/NDF:52947.8/5

Left: 41.257+/-0.010 $\chi^2$/NDF: 124647.4/11

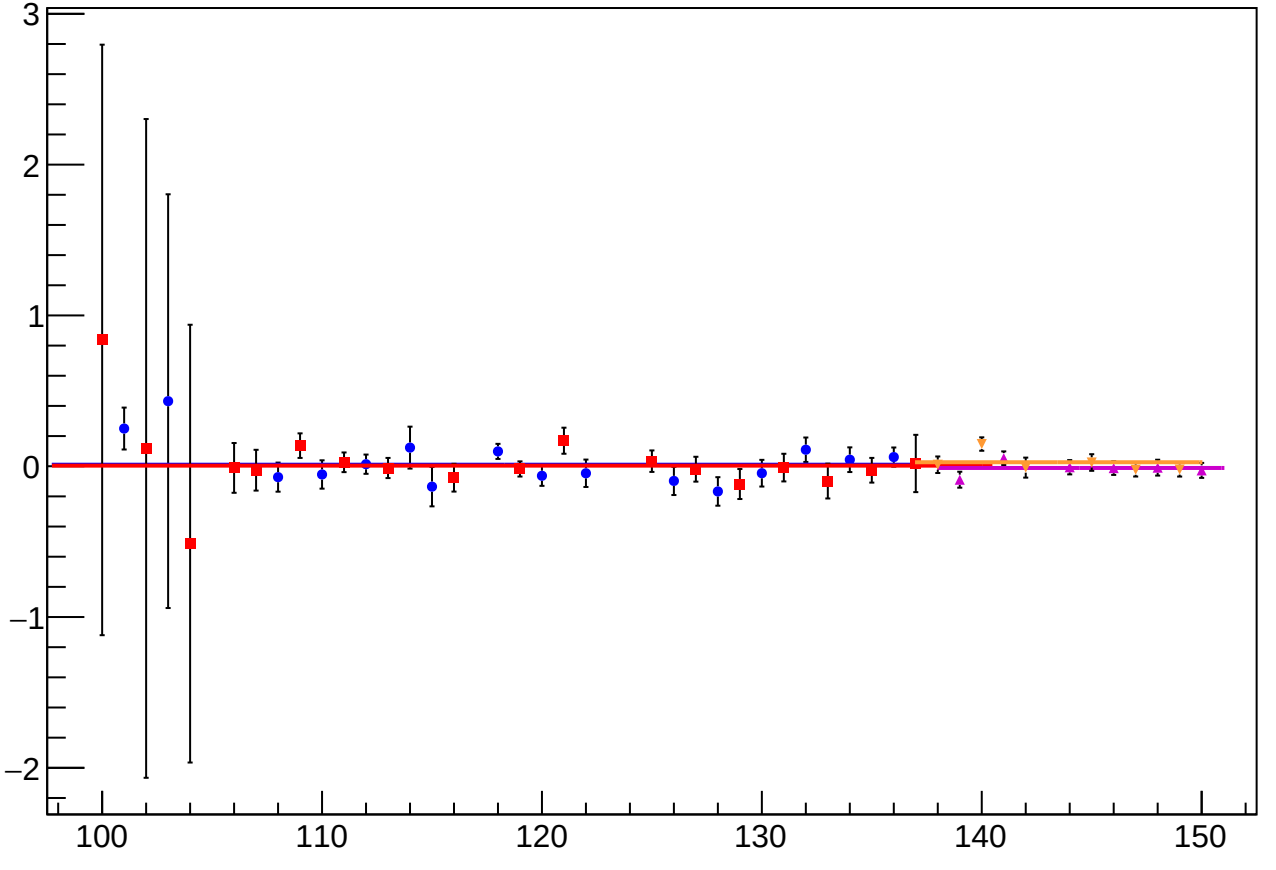
Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

In: 45.561+/-0.010 $\chi^2$/NDF:1952554.8/21

Out: 43.773+/-0.011 $\chi^2$/NDF:2602550.2/23

All: 44.697+/-0.007 $\chi^2$/NDF: 4570005.2/45

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.026+/-0.021 $\chi^2$/NDF:10.0/5

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: -0.012+/-0.020 $\chi^2$/NDF:4.3/5

Left: 0.007+/-0.014 $\chi^2$/NDF: 16.1/11

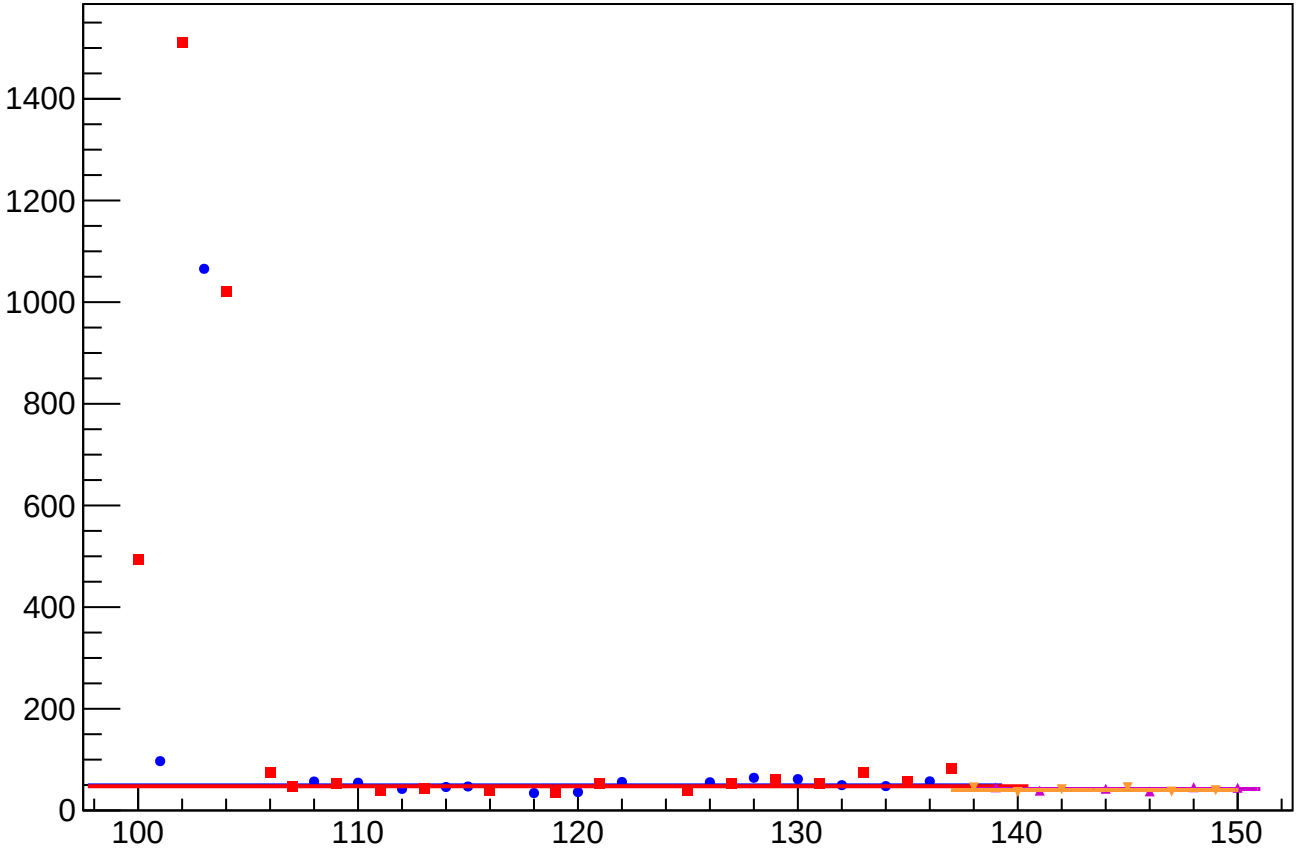
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: -0.001+/-0.014 $\chi^2$/NDF:23.3/21

Out: 0.016+/-0.015 $\chi^2$/NDF:21.1/23

All: 0.007+/-0.010 $\chi^2$/NDF: 45.1/45

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776926.6/15

Left Out: 40.240+/-0.015 $\chi^2$/NDF:62383.9/5

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 42.192+/-0.014 $\chi^2$/NDF:52947.8/5

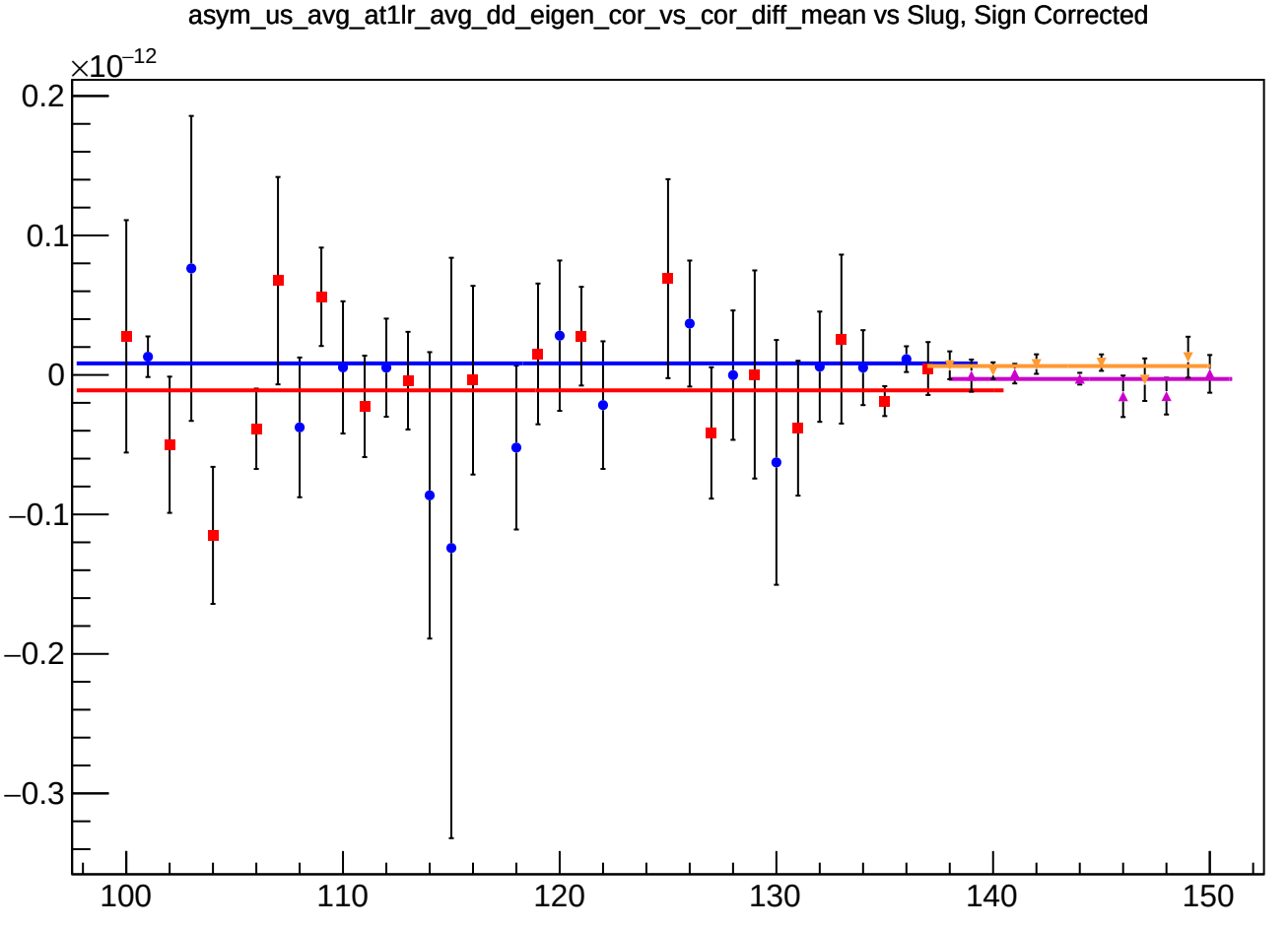
Left: 41.257+/-0.010 $\chi^2$/NDF: 124647.4/11

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

In: 45.561+/-0.010 $\chi^2$/NDF:1952554.8/21

Out: 43.773+/-0.011 $\chi^2$/NDF:2602550.2/23

All: 44.697+/-0.007 $\chi^2$/NDF: 4570005.2/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.1/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/5

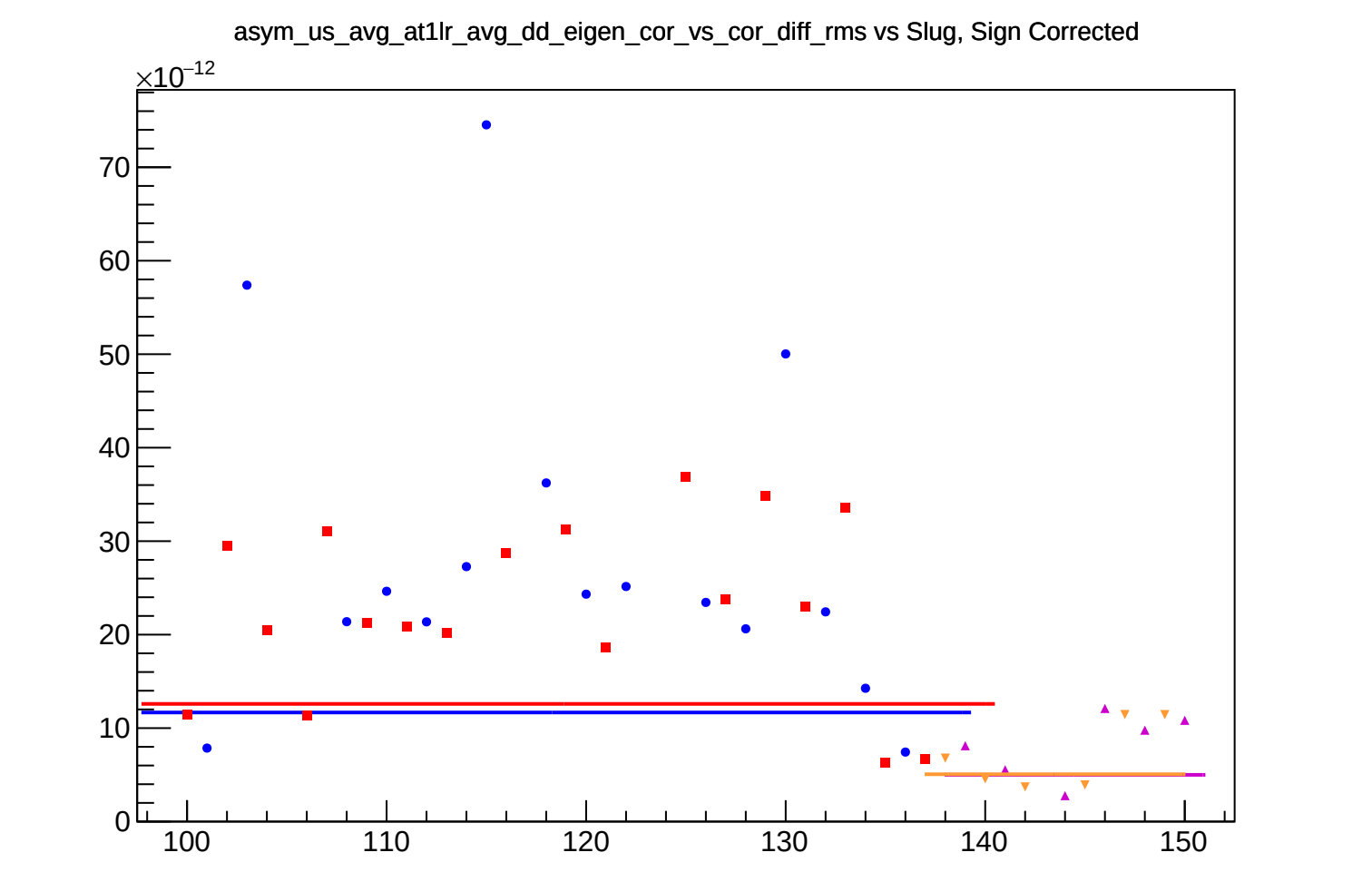
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.3/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 25.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:9.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 33.0/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2905247.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:951865.4/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2923298.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1810209.5/5

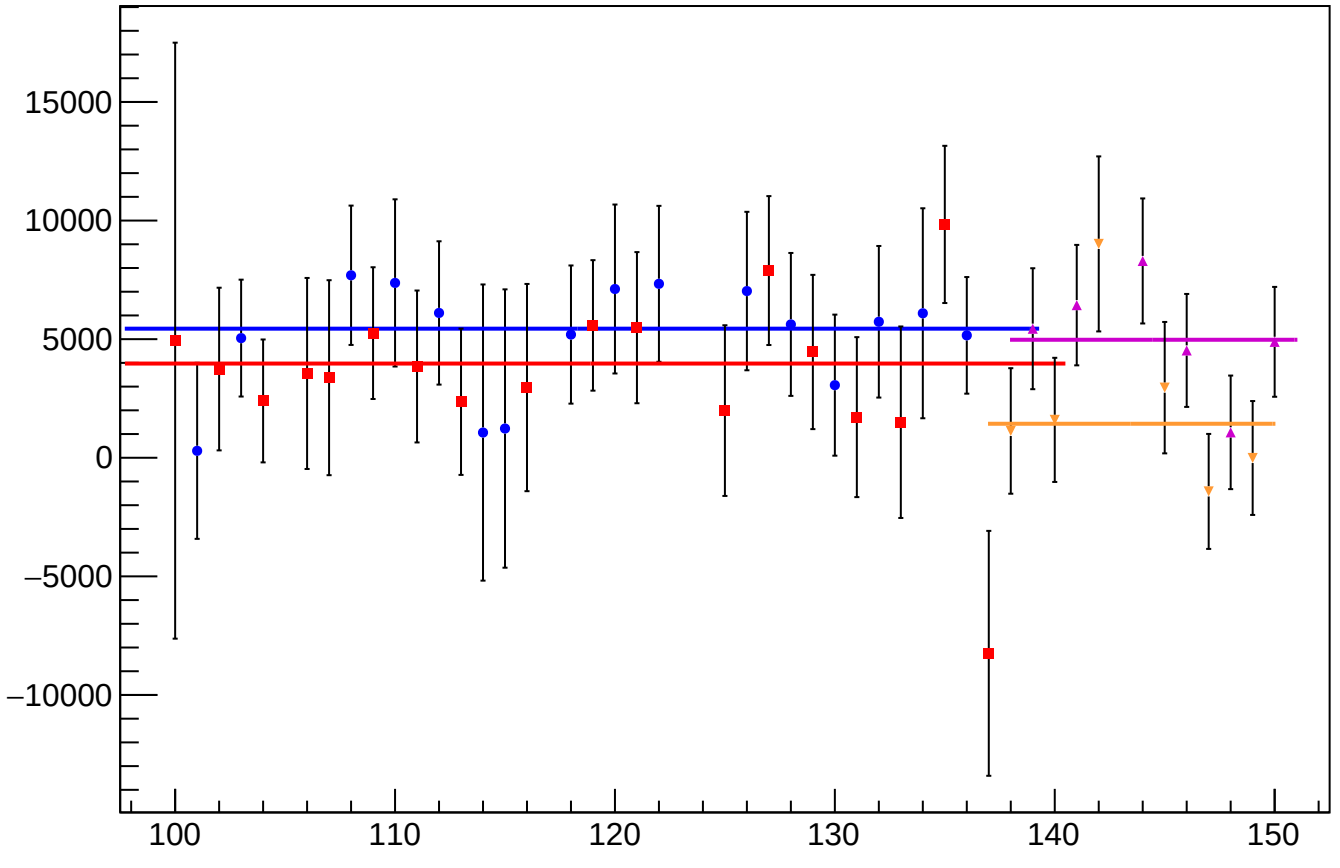
Left: 0.000+/-0.000 $\chi^2$/NDF: 2762447.6/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 5846038.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:6349928.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5685241.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 12036033.7/45




Right In: 5442.336+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 1433.561+/-1093.470 $\chi^2$/NDF:6.3/5

Right Out: 3971.728+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 4974.595+/-1004.940 $\chi^2$/NDF:4.6/5

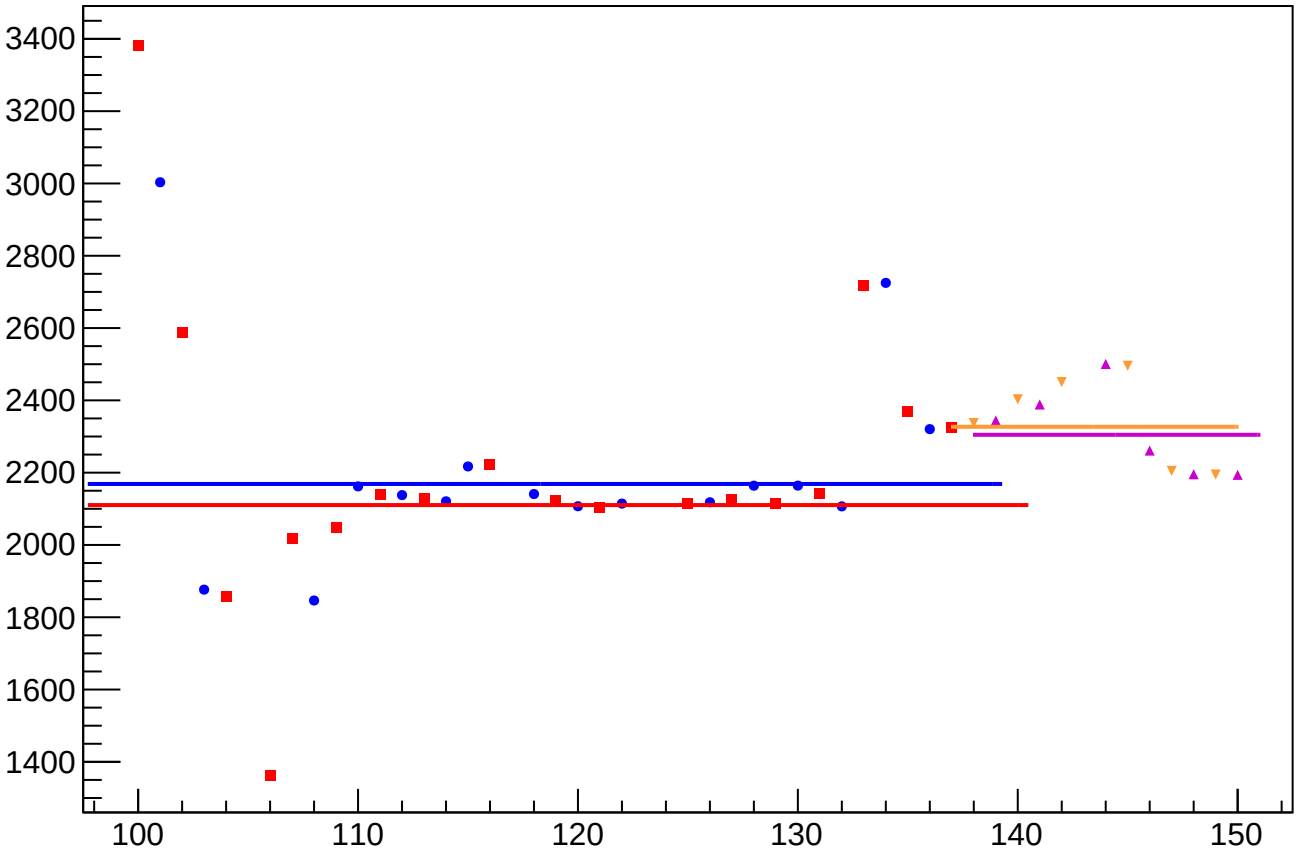
Left: 3353.205+/-739.921 $\chi^2$/NDF: 16.6/11

Right: 4703.849+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5257.434+/-631.842 $\chi^2$/NDF:10.1/21

Out: 3073.835+/-650.368 $\chi^2$/NDF:22.7/23

All: 4197.178+/-453.188 $\chi^2$/NDF: 38.7/45




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.5/15

Left Out: 2326.882+/-0.773 $\chi^2$/NDF:22524.6/5

Right Out: 2110.365+/-0.563 $\chi^2$/NDF: 267413.4/17

Left In: 2304.690+/-0.711 $\chi^2$/NDF:23118.2/5

Left: 2314.851+/-0.523 $\chi^2$/NDF: 46089.3/11

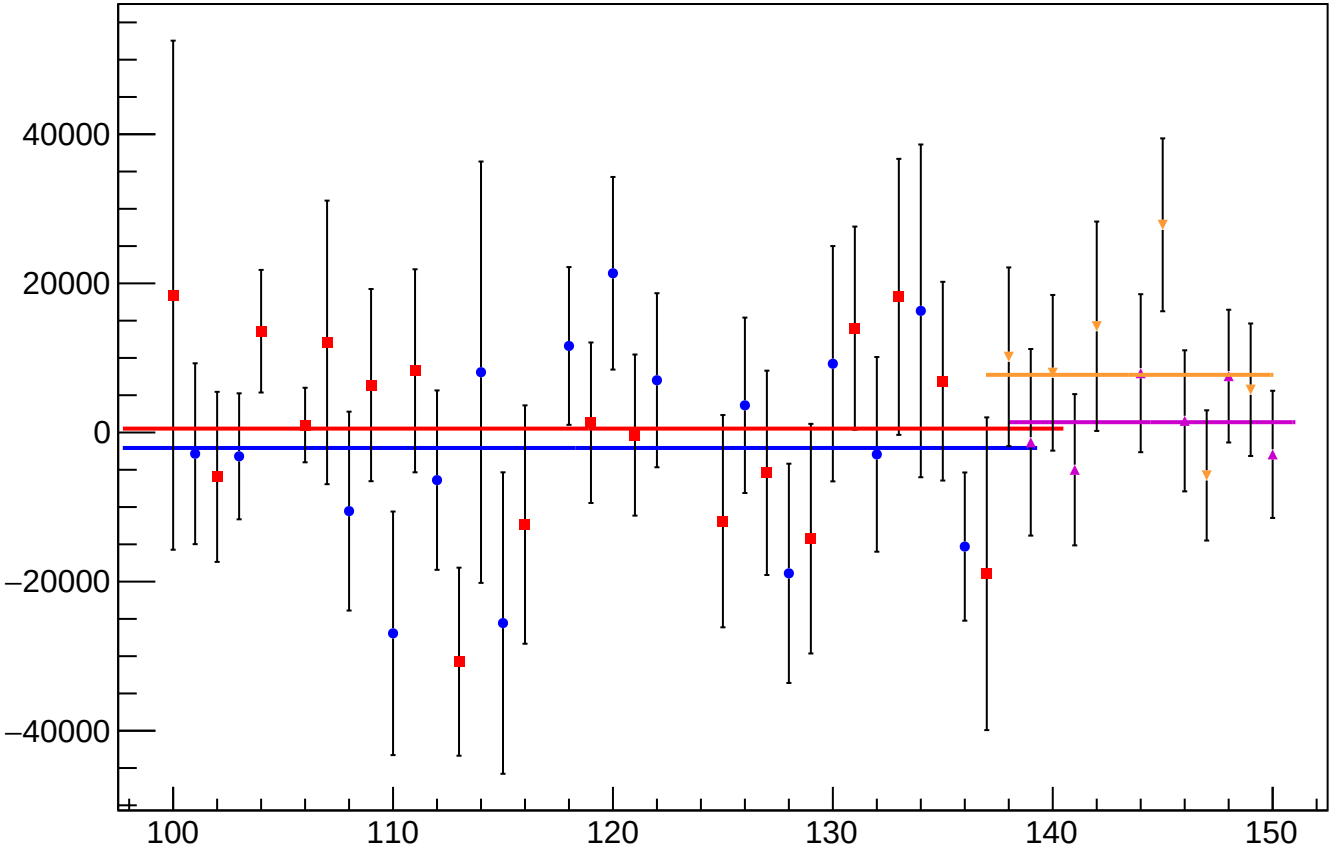
Right: 2138.947+/-0.402 $\chi^2$/NDF: 468334.9/33

In: 2222.467+/-0.447 $\chi^2$/NDF:240918.8/21

Out: 2185.382+/-0.455 $\chi^2$/NDF:341184.5/23

All: 2204.267+/-0.319 $\chi^2$/NDF: 585484.7/45

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -2074.843+/-3212.093 $\chi^2$/NDF: 14.4/15

Left Out: 7732.369+/-4286.829 $\chi^2$/NDF:5.7/5

Right Out: 521.454+/-2715.587 $\chi^2$/NDF: 15.7/17

Left In: 1381.966+/-3998.371 $\chi^2$/NDF:1.6/5

Left: 4336.339+/-2923.938 $\chi^2$/NDF: 8.4/11

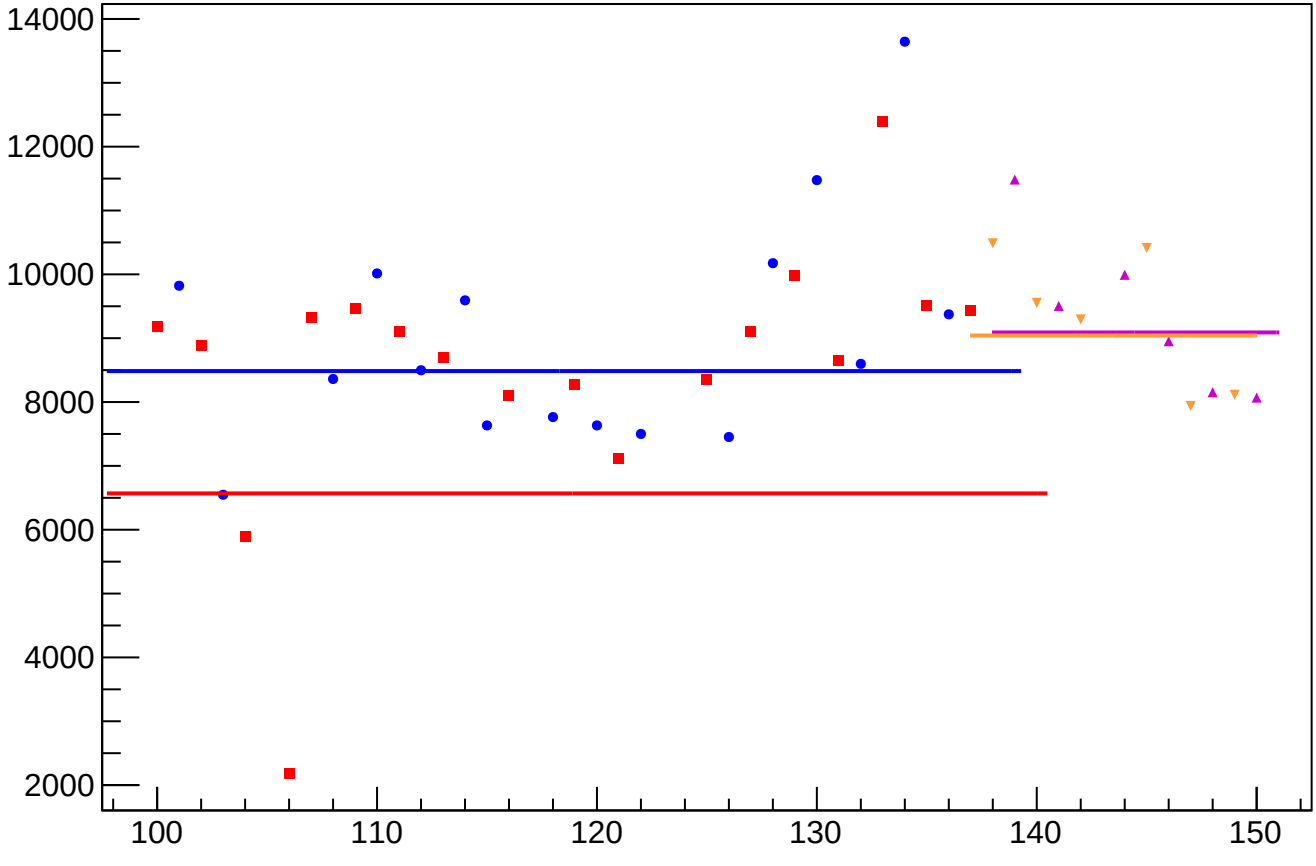
Right: -560.742+/-2073.786 $\chi^2$/NDF: 30.5/33

In: -718.963+/-2504.125 $\chi^2$/NDF:16.4/21

Out: 2586.446+/-2294.036 $\chi^2$/NDF:23.4/23

All: 1078.193+/-1691.533 $\chi^2$/NDF: 40.8/45

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 8485.000+/-2.271 $\chi^2$/NDF: 422706.1/15

Left Out: 9041.793+/-3.031 $\chi^2$/NDF:116140.3/5

Right Out: 6568.711+/-1.920 $\chi^2$/NDF: 2568887.0/17

Left In: 9090.063+/-2.827 $\chi^2$/NDF:142268.6/5

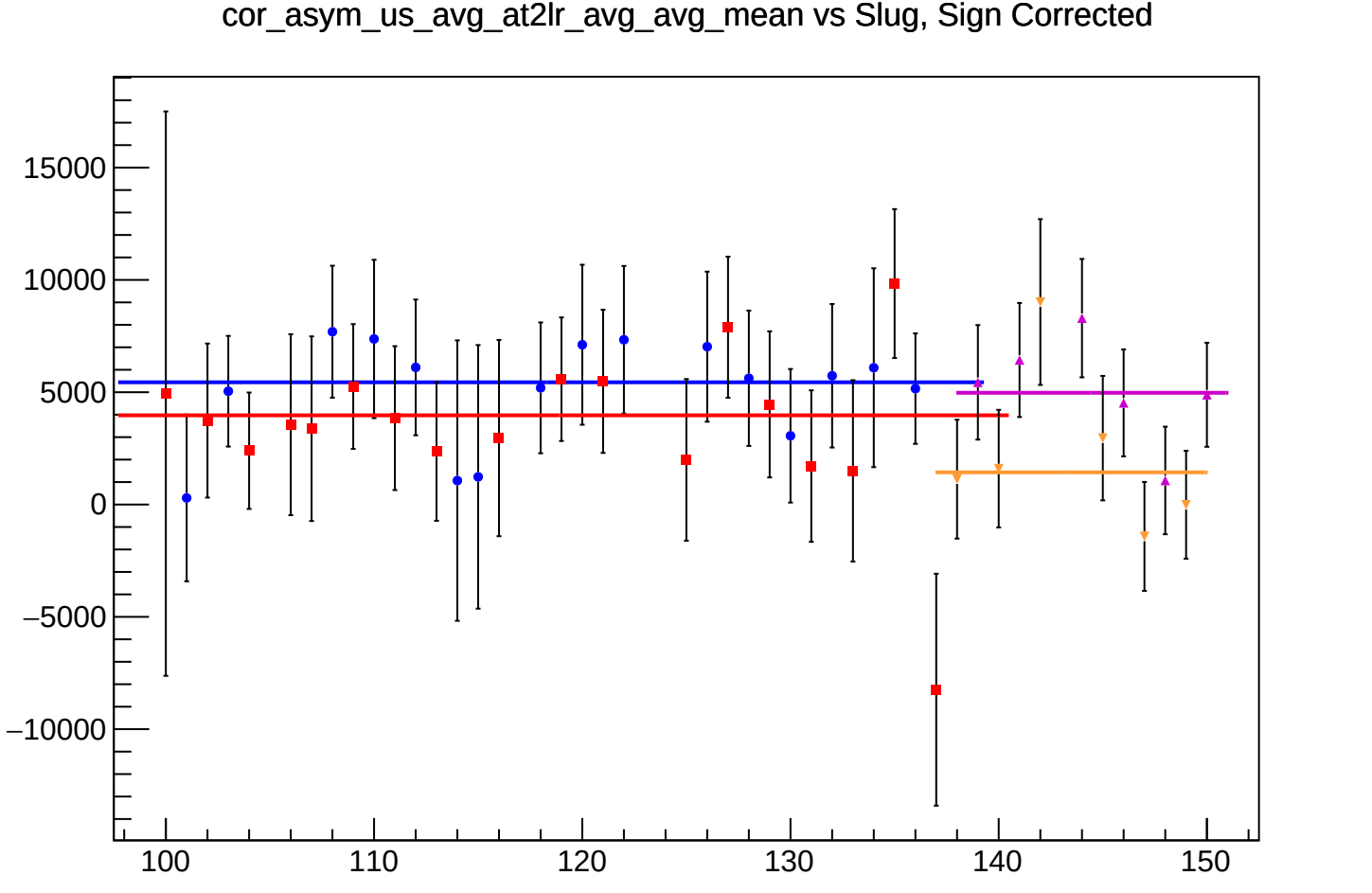
Left: 9067.607+/-2.068 $\chi^2$/NDF: 258544.5/11

Right: 7367.464+/-1.466 $\chi^2$/NDF: 3406715.7/33

In: 8722.327+/-1.771 $\chi^2$/NDF:592810.5/21

Out: 7276.928+/-1.622 $\chi^2$/NDF:3160042.6/23

All: 7936.461+/-1.196 $\chi^2$/NDF: 4115141.1/45




Right In: 5442.478+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 1433.566+/-1093.470 $\chi^2$/NDF:6.3/5

Right Out: 3971.470+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 4974.864+/-1004.940 $\chi^2$/NDF:4.6/5

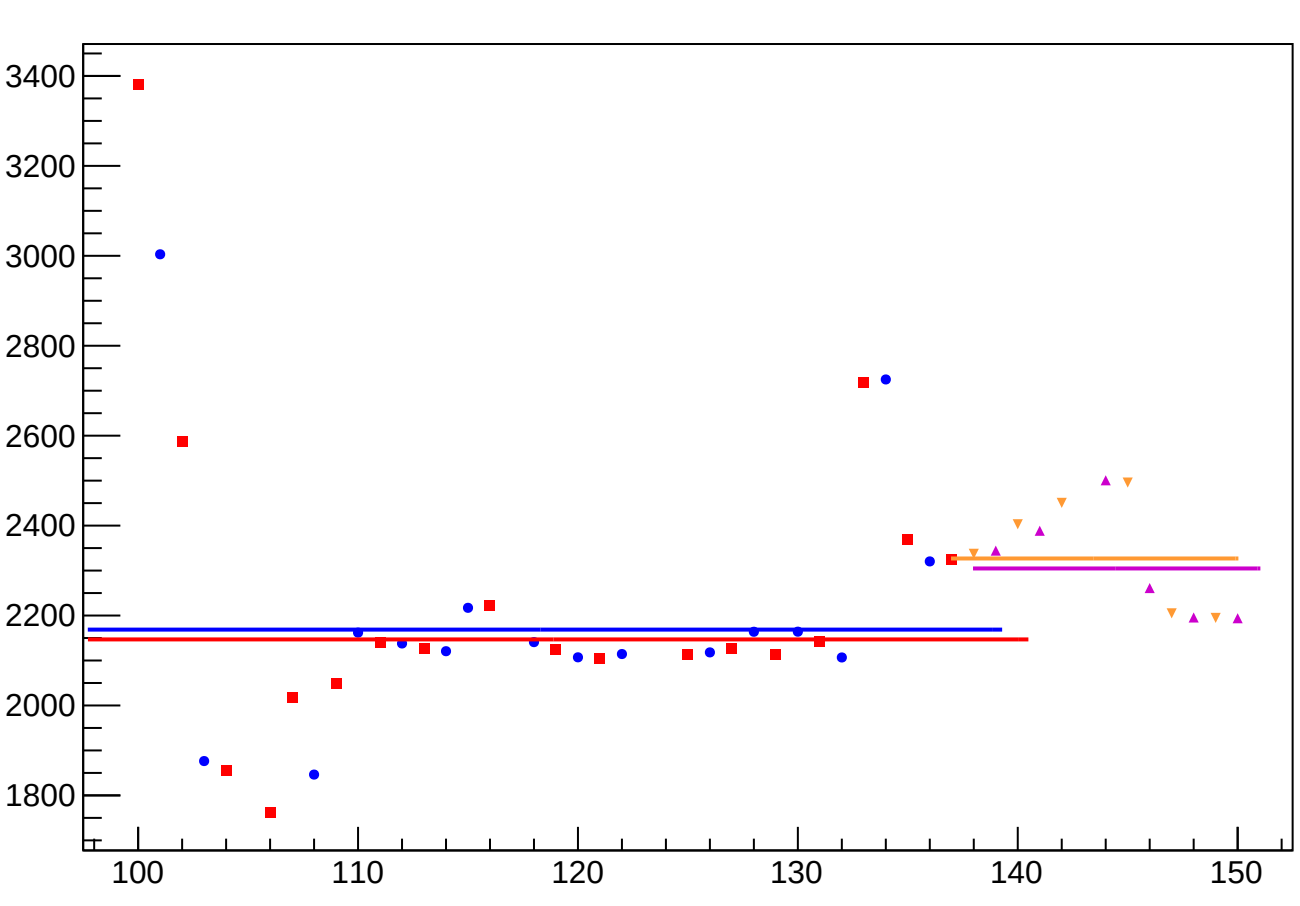
Left: 3353.354+/-739.921 $\chi^2$/NDF: 16.6/11

Right: 4703.790+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5257.626+/-631.842 $\chi^2$/NDF:10.1/21

Out: 3073.670+/-650.368 $\chi^2$/NDF:22.7/23

All: 4197.197+/-453.188 $\chi^2$/NDF: 38.7/45




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2326.882+/-0.773 $\chi^2$/NDF:22524.6/5

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2304.690+/-0.711 $\chi^2$/NDF:23118.2/5

Left: 2314.851+/-0.523 $\chi^2$/NDF: 46089.3/11

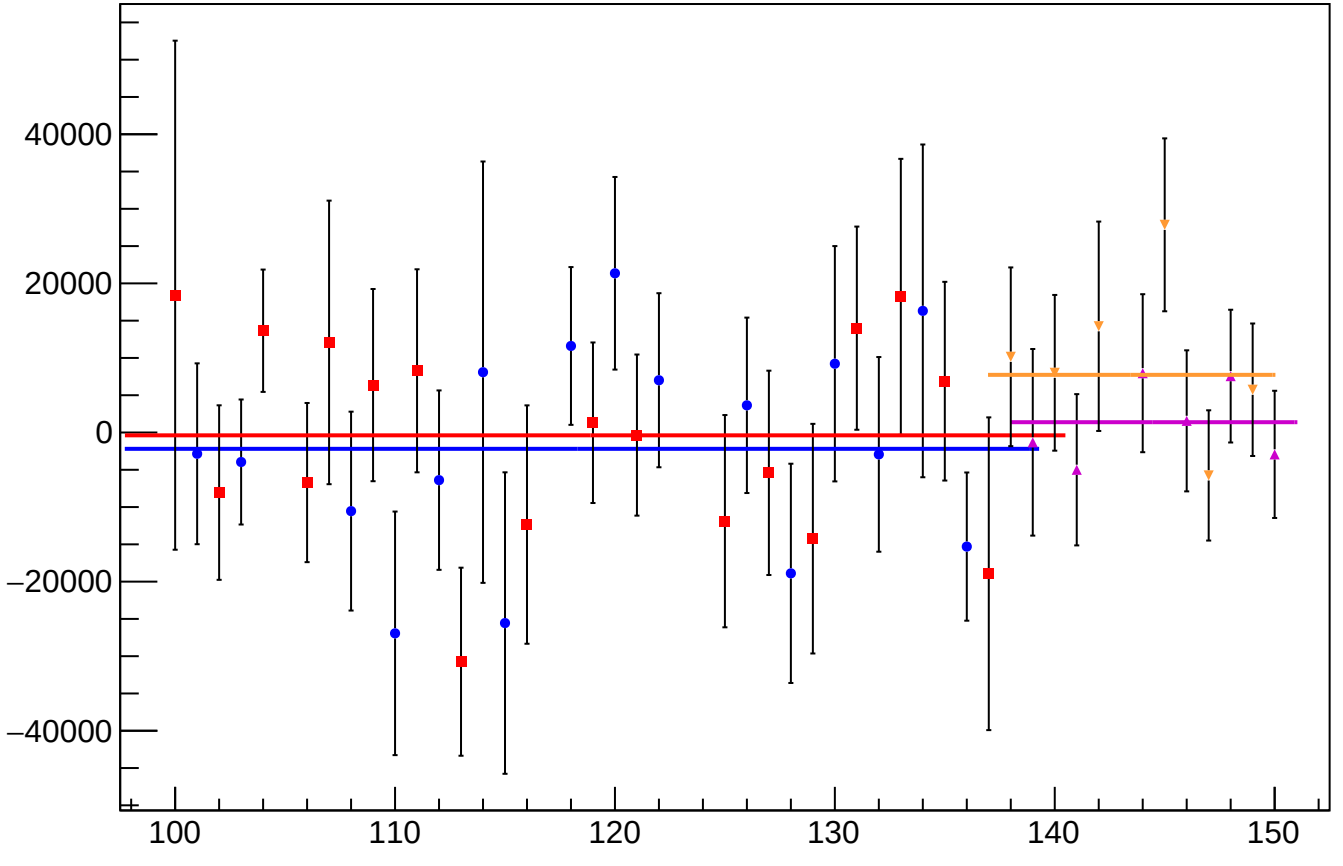
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

In: 2222.467+/-0.447 $\chi^2$/NDF:240919.2/21

Out: 2210.153+/-0.458 $\chi^2$/NDF:215419.4/23

All: 2216.468+/-0.320 $\chi^2$/NDF: 456708.7/45

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -2189.256+/-3208.524 $\chi^2$/NDF: 14.5/15

Left Out: 7732.414+/-4286.822 $\chi^2$/NDF:5.7/5

Right Out: -379.236+/-3099.953 $\chi^2$/NDF: 16.3/17

Left In: 1382.164+/-3998.368 $\chi^2$/NDF:1.6/5

Left: 4336.469+/-2923.935 $\chi^2$/NDF: 8.4/11

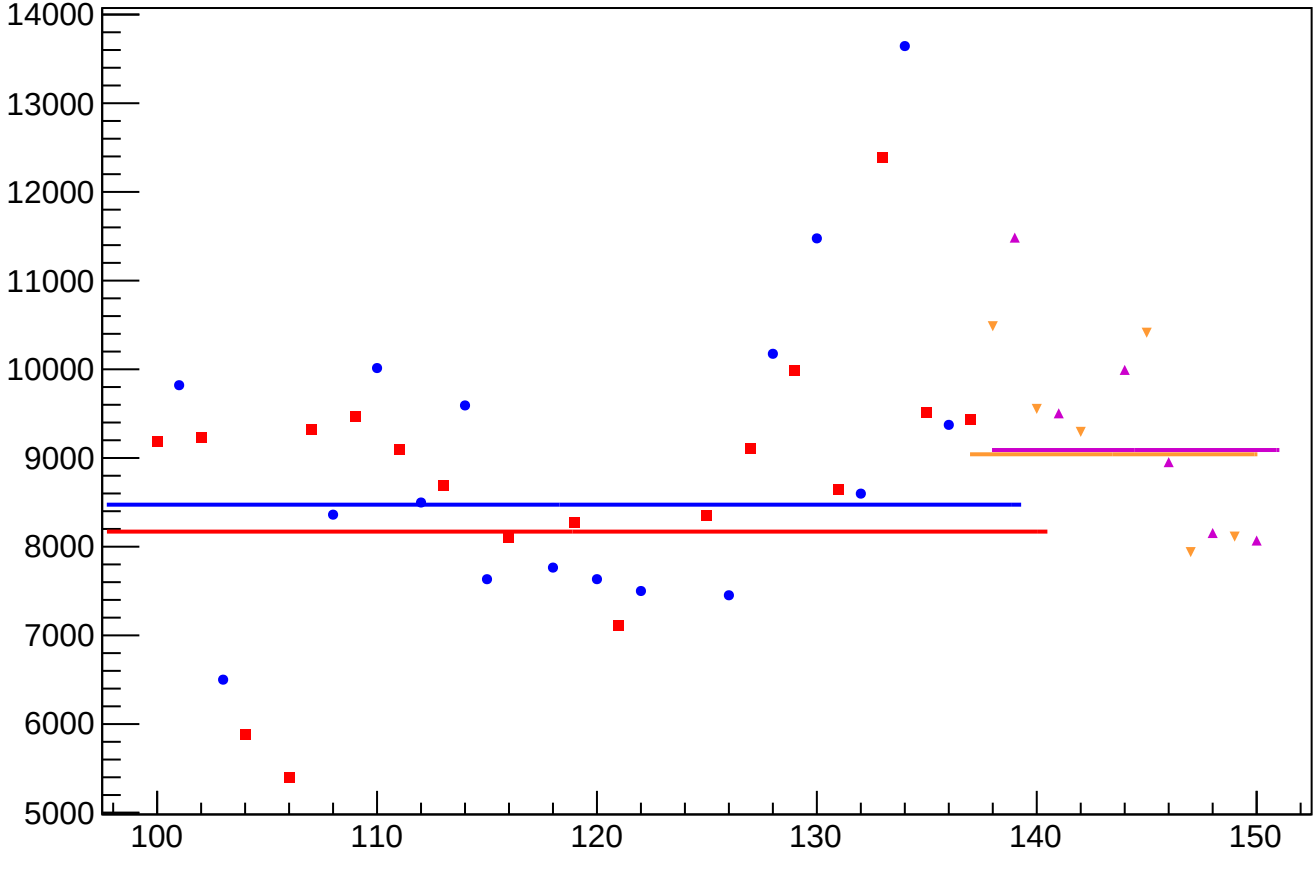
Right: -1253.105+/-2229.393 $\chi^2$/NDF: 30.9/33

In: -790.312+/-2502.432 $\chi^2$/NDF:16.5/21

Out: 2406.052+/-2511.978 $\chi^2$/NDF:24.4/23

All: 801.785+/-1772.852 $\chi^2$/NDF: 41.7/45

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 8473.743+/-2.269 $\chi^2$/NDF: 429547.3/15

Left Out: 9041.776+/-3.031 $\chi^2$/NDF:116140.4/5

Right Out: 8170.027+/-2.192 $\chi^2$/NDF: 539925.8/17

Left In: 9090.056+/-2.827 $\chi^2$/NDF:142268.9/5

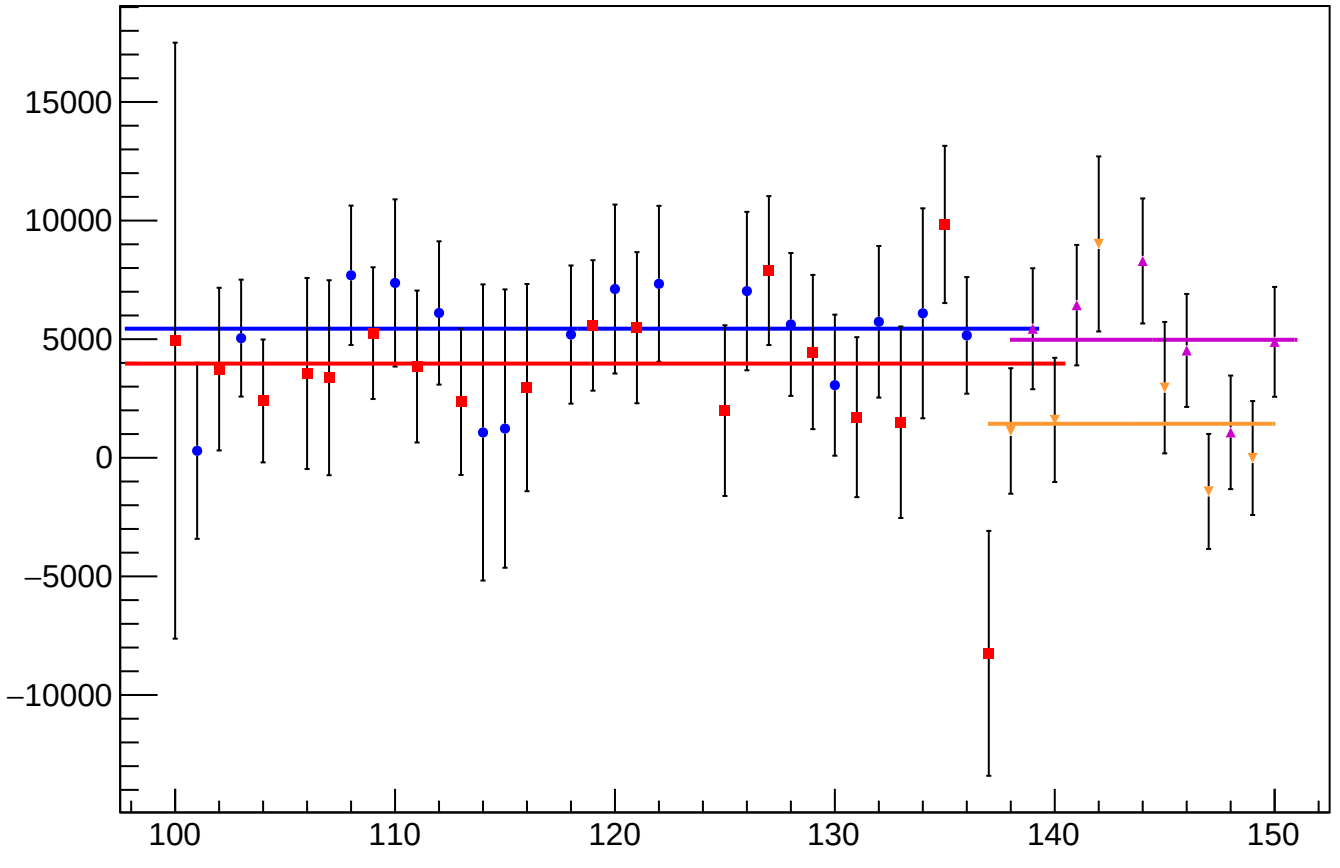
Left: 9067.595+/-2.068 $\chi^2$/NDF: 258545.0/11

Right: 8316.660+/-1.576 $\chi^2$/NDF: 978741.7/33

In: 8715.156+/-1.769 $\chi^2$/NDF:600721.8/21

Out: 8469.359+/-1.776 $\chi^2$/NDF:710374.2/23

All: 8592.725+/-1.254 $\chi^2$/NDF: 1320707.1/45




Right In: 5442.478+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 1433.566+/-1093.470 $\chi^2$/NDF:6.3/5

Right Out: 3971.470+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 4974.864+/-1004.940 $\chi^2$/NDF:4.6/5

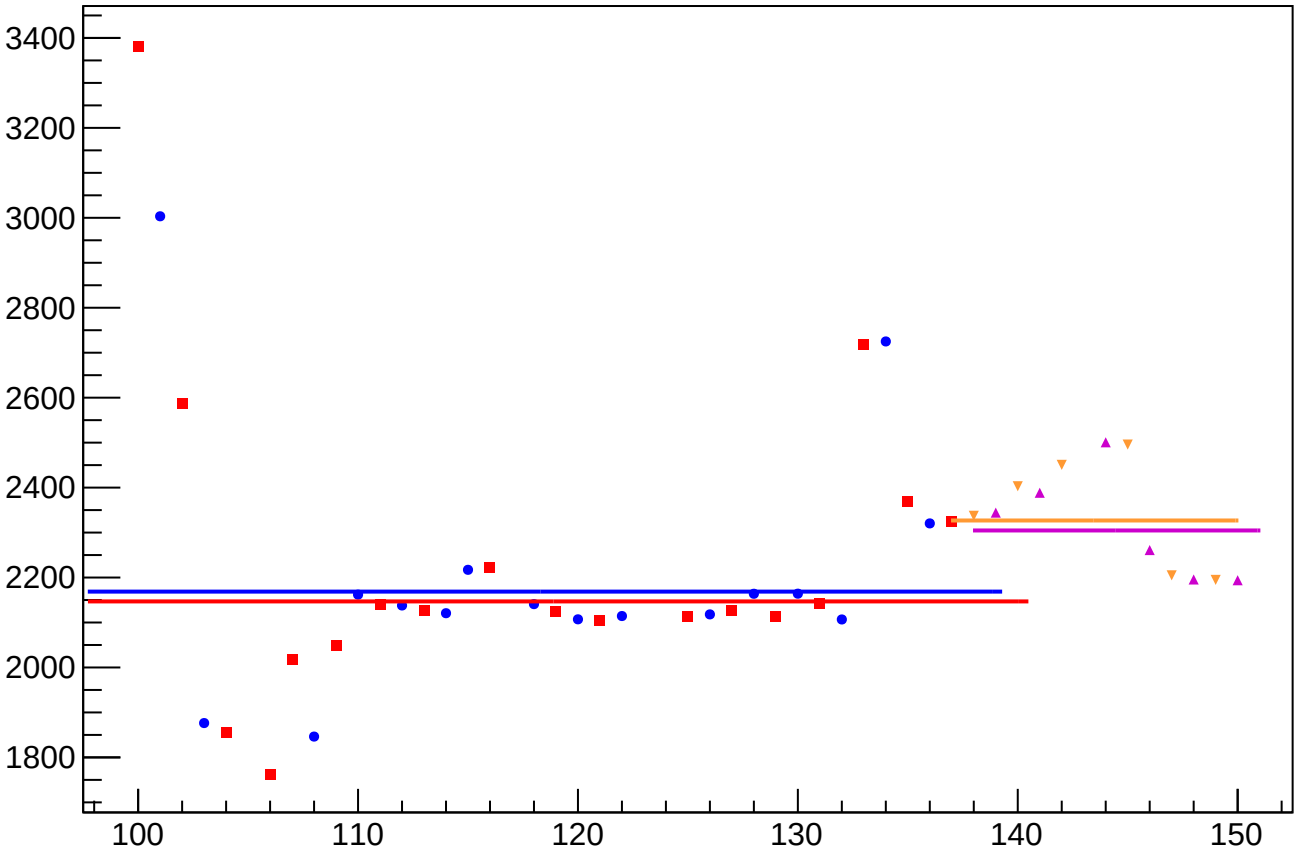
Left: 3353.354+/-739.921 $\chi^2$/NDF: 16.6/11

Right: 4703.790+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5257.626+/-631.842 $\chi^2$/NDF:10.1/21

Out: 3073.670+/-650.368 $\chi^2$/NDF:22.7/23

All: 4197.197+/-453.188 $\chi^2$/NDF: 38.7/45




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2326.882+/-0.773 $\chi^2$/NDF:22524.6/5

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2304.690+/-0.711 $\chi^2$/NDF:23118.2/5

Left: 2314.851+/-0.523 $\chi^2$/NDF: 46089.3/11

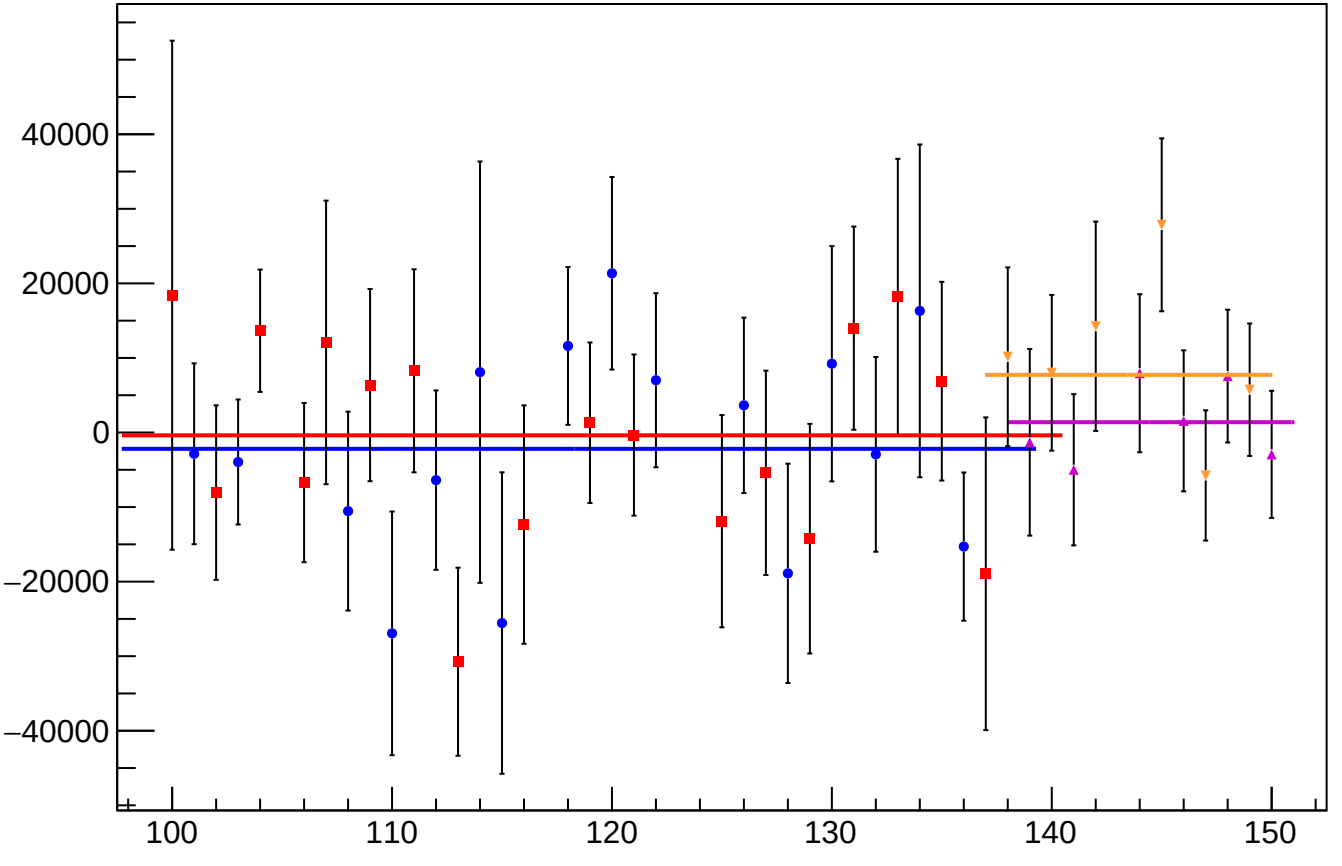
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

In: 2222.467+/-0.447 $\chi^2$/NDF:240919.2/21

Out: 2210.153+/-0.458 $\chi^2$/NDF:215419.4/23

All: 2216.468+/-0.320 $\chi^2$/NDF: 456708.7/45

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -2189.256+/-3208.524 $\chi^2$/NDF: 14.5/15

Left Out: 7732.414+/-4286.822 $\chi^2$/NDF:5.7/5

Right Out: -379.236+/-3099.953 $\chi^2$/NDF: 16.3/17

Left In: 1382.164+/-3998.368 $\chi^2$/NDF:1.6/5

Left: 4336.469+/-2923.935 $\chi^2$/NDF: 8.4/11

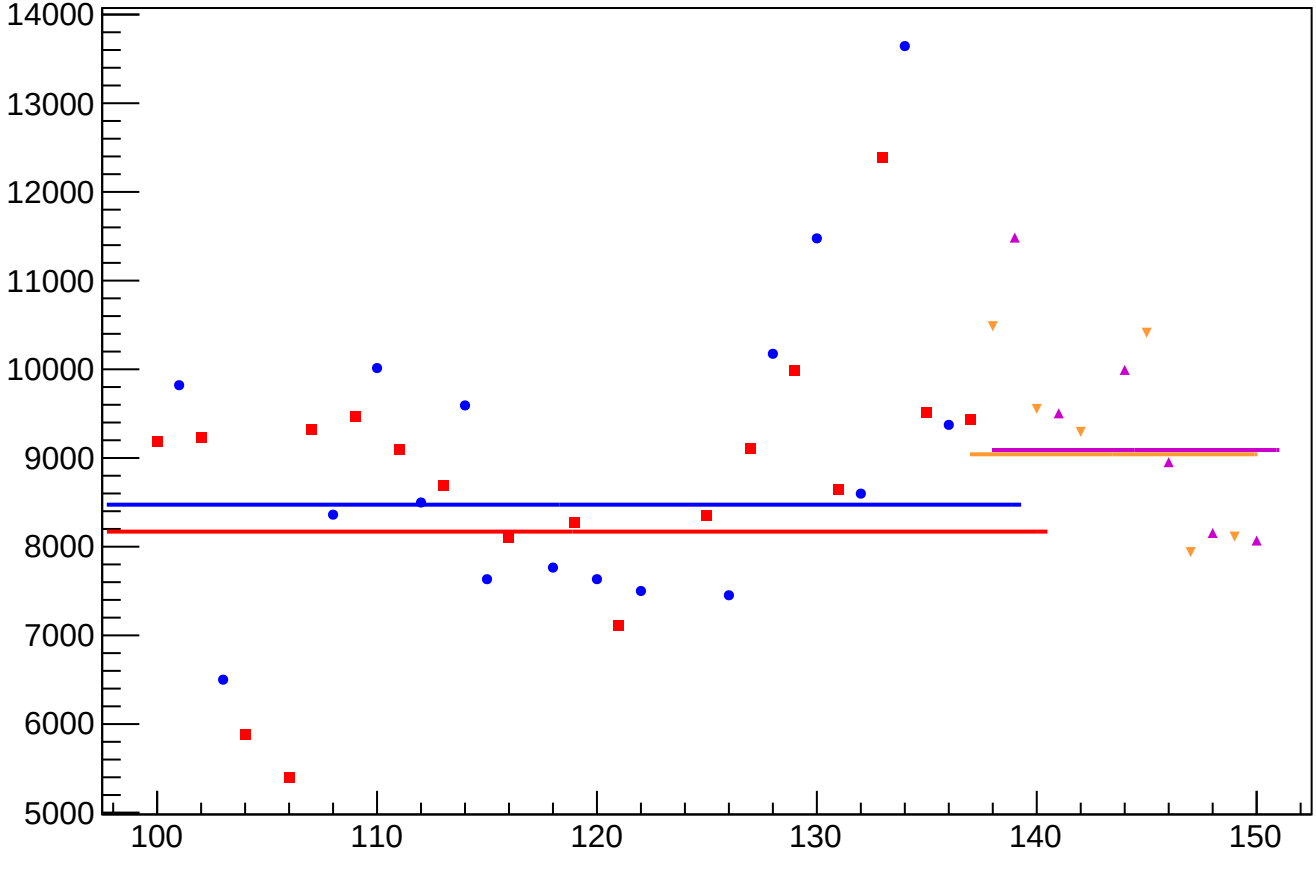
Right: -1253.105+/-2229.393 $\chi^2$/NDF: 30.9/33

In: -790.312+/-2502.432 $\chi^2$/NDF:16.5/21

Out: 2406.052+/-2511.978 $\chi^2$/NDF:24.4/23

All: 801.785+/-1772.852 $\chi^2$/NDF: 41.7/45

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 8473.743+/-2.269 $\chi^2$/NDF: 429547.3/15

Left Out: 9041.776+/-3.031 $\chi^2$/NDF:116140.4/5

Right Out: 8170.027+/-2.192 $\chi^2$/NDF: 539925.8/17

Left In: 9090.056+/-2.827 $\chi^2$/NDF:142268.9/5

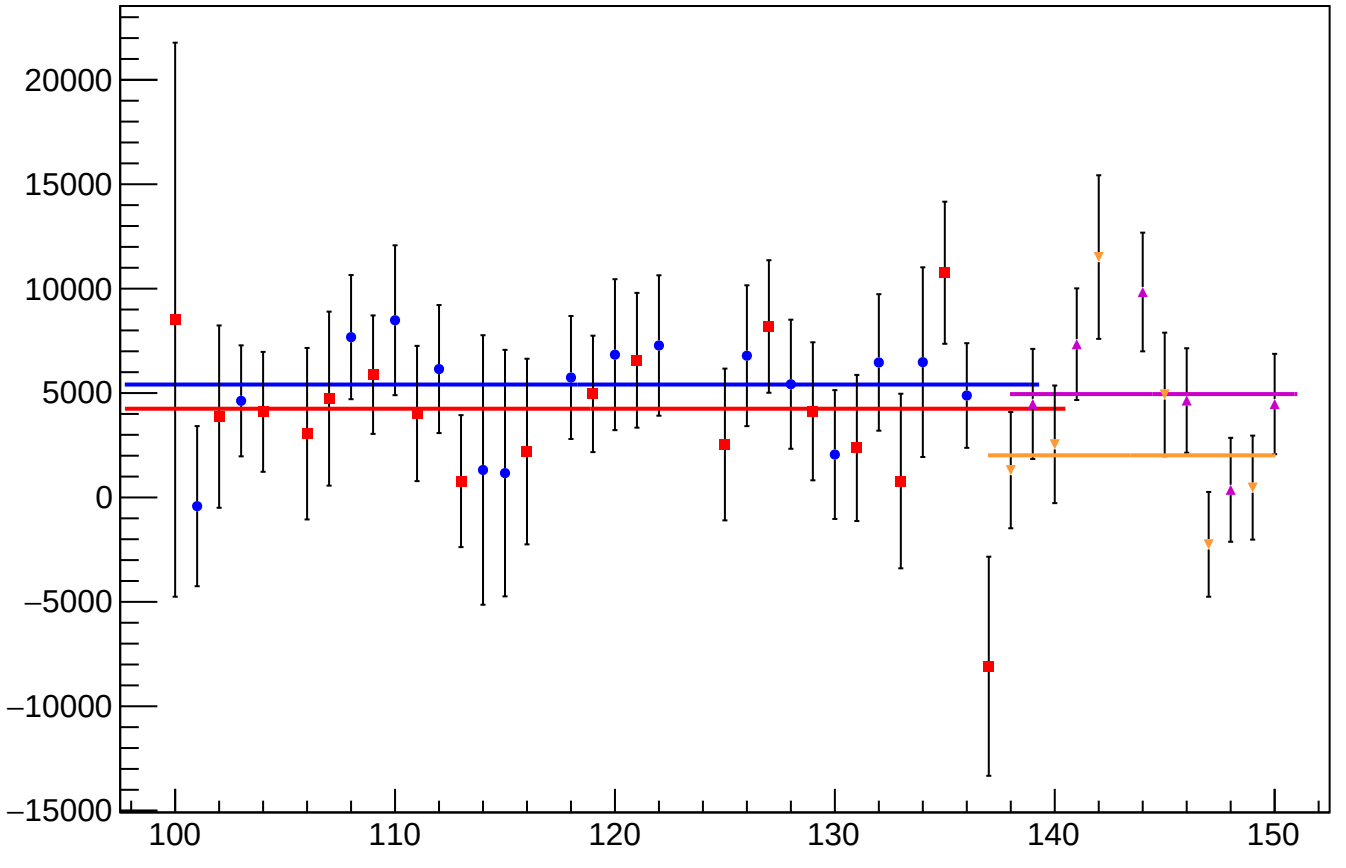
Left: 9067.595+/-2.068 $\chi^2$/NDF: 258545.0/11

Right: 8316.660+/-1.576 $\chi^2$/NDF: 978741.7/33

In: 8715.156+/-1.769 $\chi^2$/NDF:600721.8/21

Out: 8469.359+/-1.776 $\chi^2$/NDF:710374.2/23

All: 8592.725+/-1.254 $\chi^2$/NDF: 1320707.1/45




Right In: 5407.867+/-833.689 $\chi^2$/NDF: 6.7/15

Left Out: 2018.331+/-1151.326 $\chi^2$/NDF:10.2/5

Right Out: 4249.899+/-839.336 $\chi^2$/NDF: 14.5/17

Left In: 4951.531+/-1052.910 $\chi^2$/NDF:7.2/5

Left: 3615.634+/-776.987 $\chi^2$/NDF: 21.0/11

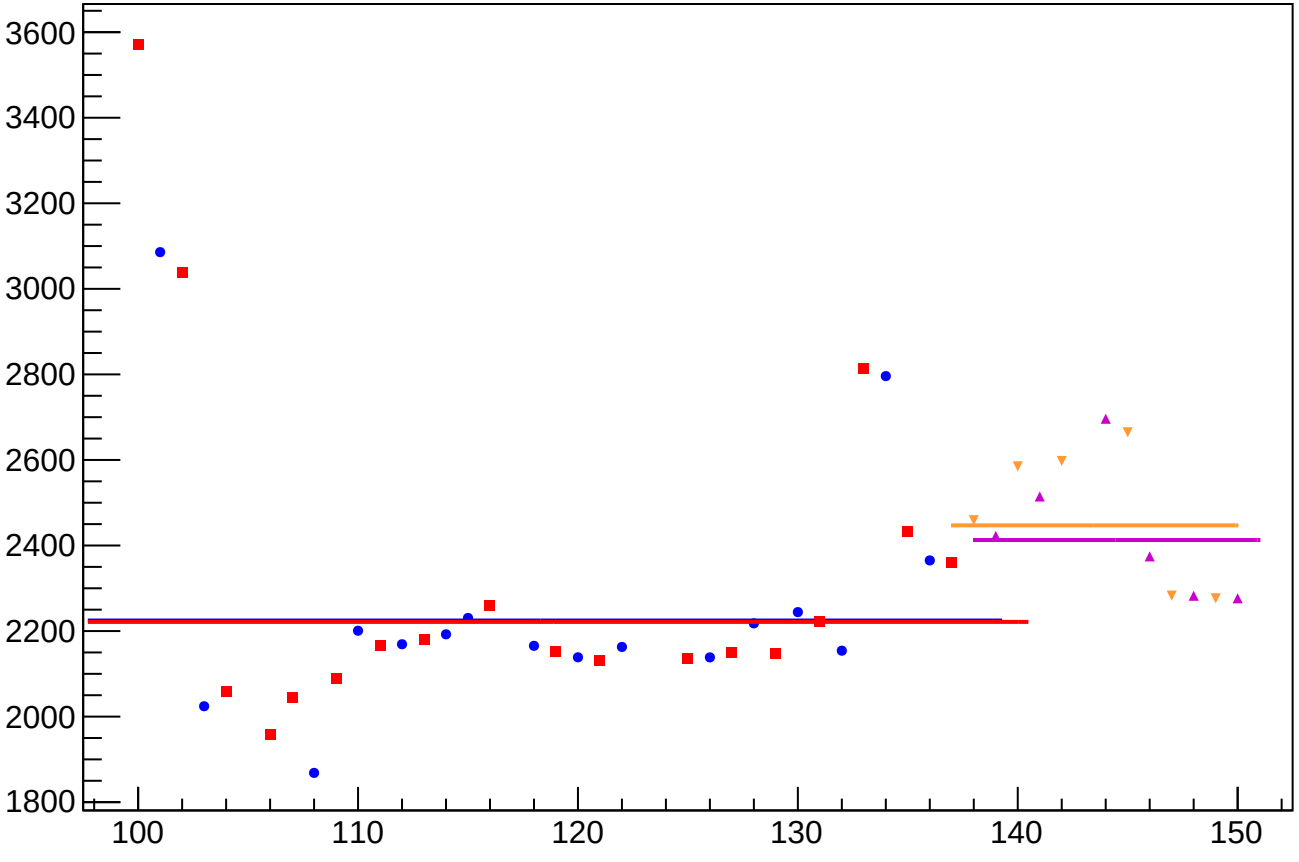
Right: 4832.791+/-591.493 $\chi^2$/NDF: 22.2/33

In: 5232.019+/-653.609 $\chi^2$/NDF:14.1/21

Out: 3475.477+/-678.238 $\chi^2$/NDF:27.1/23

All: 4386.219+/-470.638 $\chi^2$/NDF: 44.7/45

dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected




Right In: 2224.614+/-0.590 $\chi^2$/NDF: 184679.8/15

Left Out: 2447.100+/-0.814 $\chi^2$/NDF:36528.0/5

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2412.832+/-0.745 $\chi^2$/NDF:35207.4/5

Left: 2428.439+/-0.549 $\chi^2$/NDF: 72700.1/11

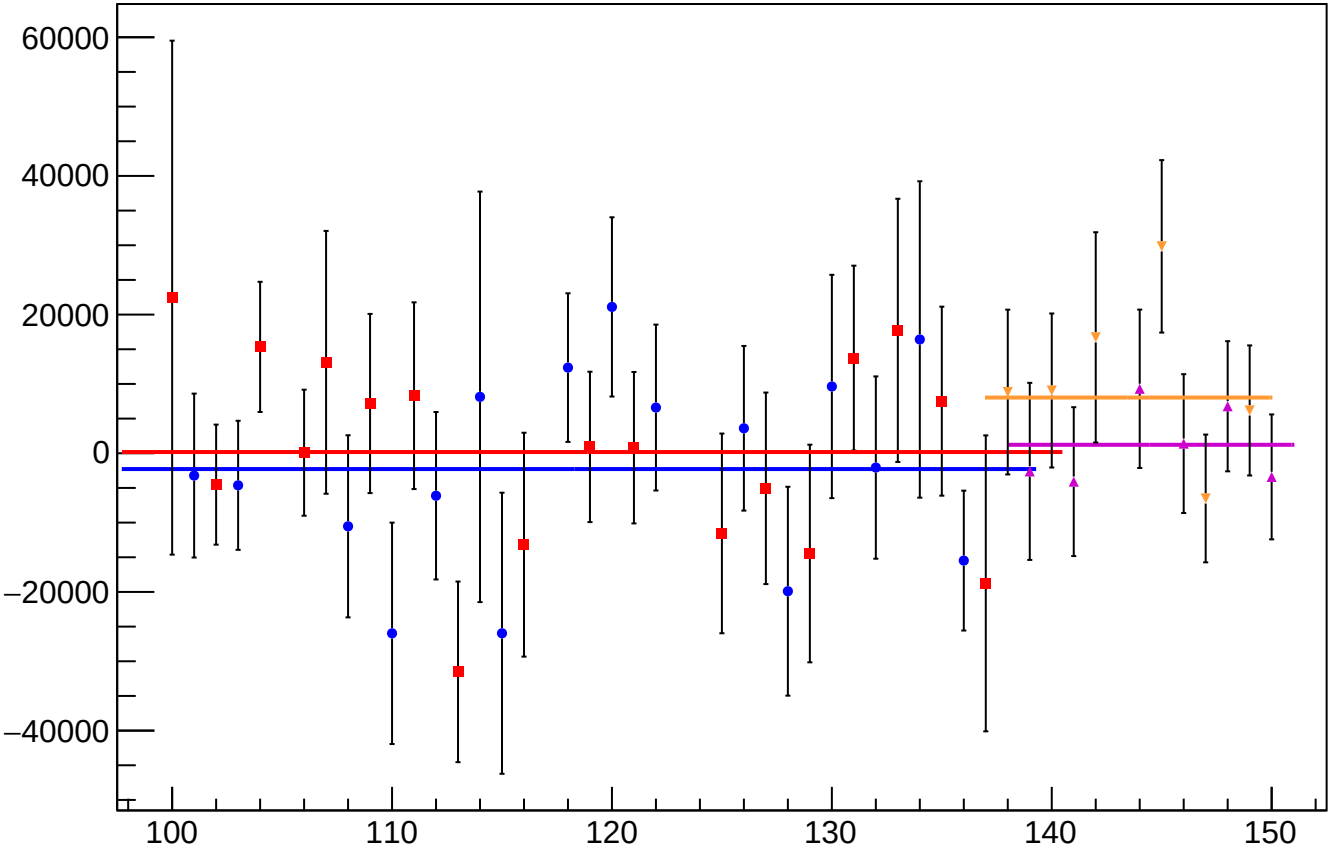
Right: 2223.029+/-0.418 $\chi^2$/NDF: 354638.7/33

In: 2297.144+/-0.462 $\chi^2$/NDF:259169.9/21

Out: 2299.678+/-0.479 $\chi^2$/NDF:256669.2/23

All: 2298.365+/-0.333 $\chi^2$/NDF: 515853.6/45

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -2278.440+/-3271.750 $\chi^2$/NDF: 14.5/15

Left Out: 8035.483+/-4510.701 $\chi^2$/NDF:5.9/5

Right Out: 177.024+/-3035.355 $\chi^2$/NDF: 15.6/17

Left In: 1222.842+/-4221.266 $\chi^2$/NDF:1.4/5

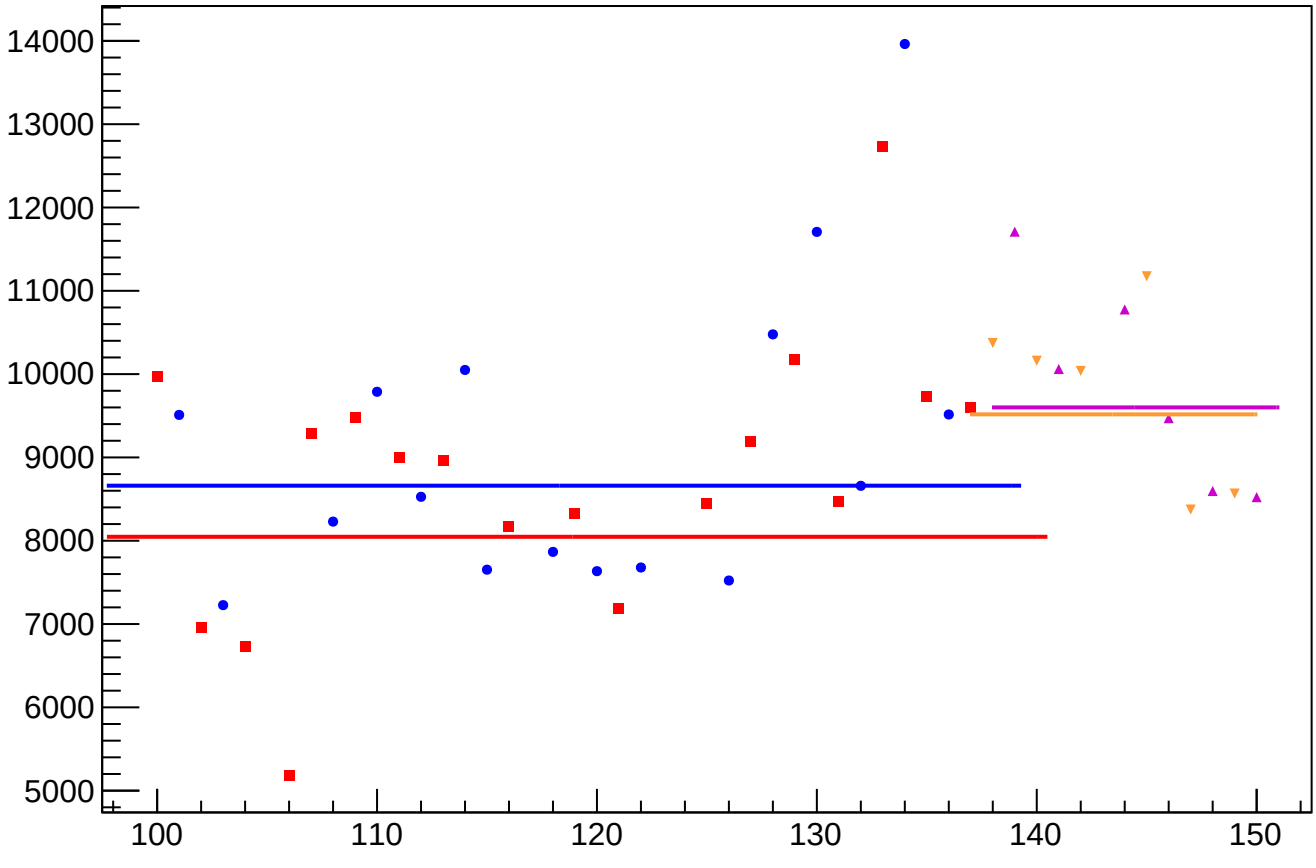
Left: 4403.594+/-3082.132 $\chi^2$/NDF: 8.6/11

Right: -958.805+/-2225.203 $\chi^2$/NDF: 30.4/33

In: -964.470+/-2585.960 $\chi^2$/NDF:16.4/21

Out: 2626.397+/-2518.273 $\chi^2$/NDF:23.7/23

All: 878.574+/-1804.143 $\chi^2$/NDF: 41.0/45




Right In: 8660.733+/-2.313 $\chi^2$/NDF: 357961.9/15

Left Out: 9516.829+/-3.190 $\chi^2$/NDF:106308.8/5

Right Out: 8047.460+/-2.146 $\chi^2$/NDF: 558559.6/17

Left In: 9600.418+/-2.985 $\chi^2$/NDF:131265.0/5

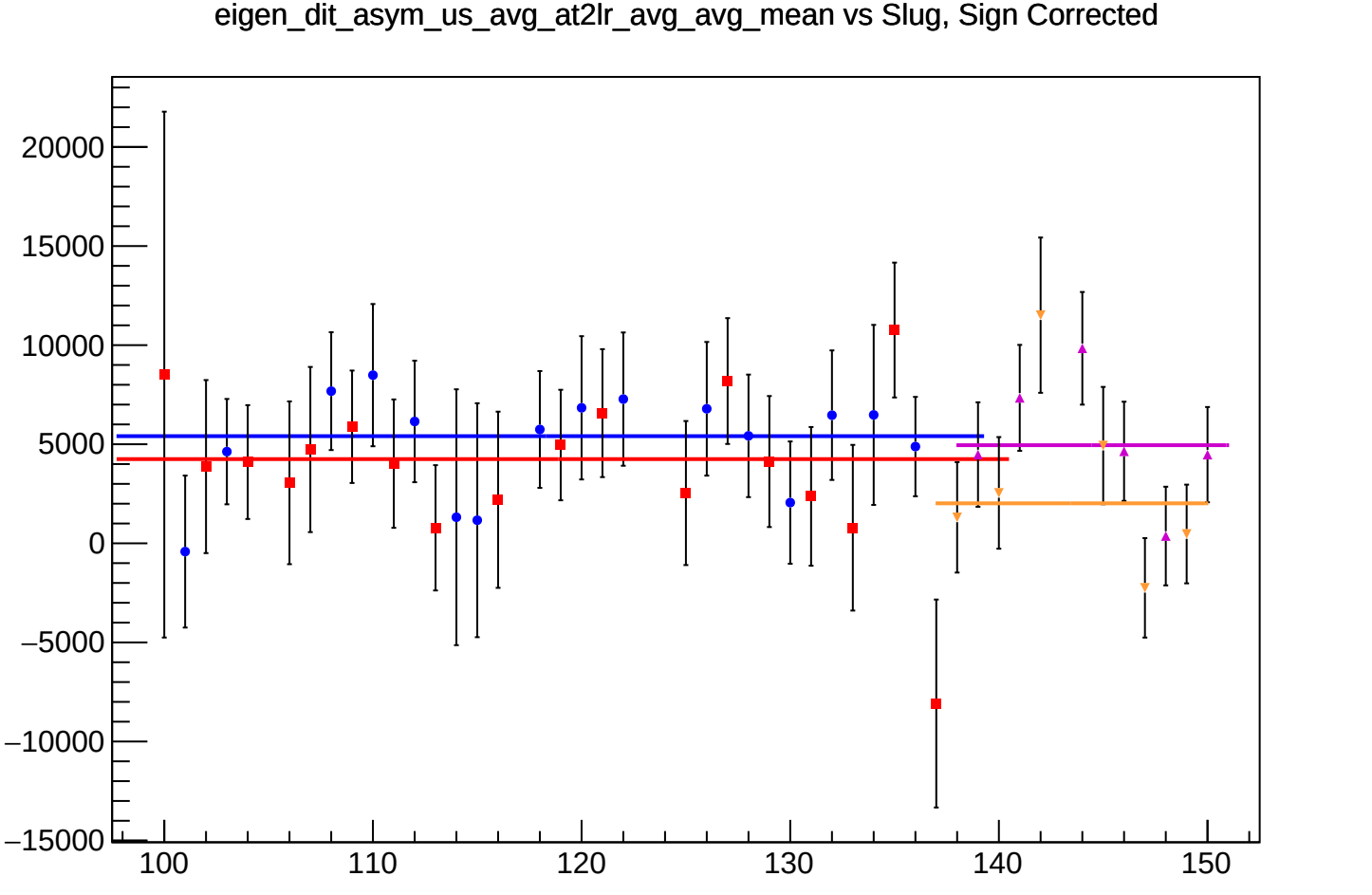
Left: 9561.391+/-2.179 $\chi^2$/NDF: 237939.9/11

Right: 8331.143+/-1.573 $\chi^2$/NDF: 954287.2/33

In: 9013.380+/-1.829 $\chi^2$/NDF:551141.6/21

Out: 8505.442+/-1.781 $\chi^2$/NDF:810948.2/23

All: 8752.676+/-1.276 $\chi^2$/NDF: 1401694.3/45




Right In: 5407.869+/-833.688 $\chi^2$/NDF: 6.7/15

Left Out: 2018.344+/-1151.327 $\chi^2$/NDF:10.2/5

Right Out: 4249.903+/-839.335 $\chi^2$/NDF: 14.5/17

Left In: 4951.527+/-1052.911 $\chi^2$/NDF:7.2/5

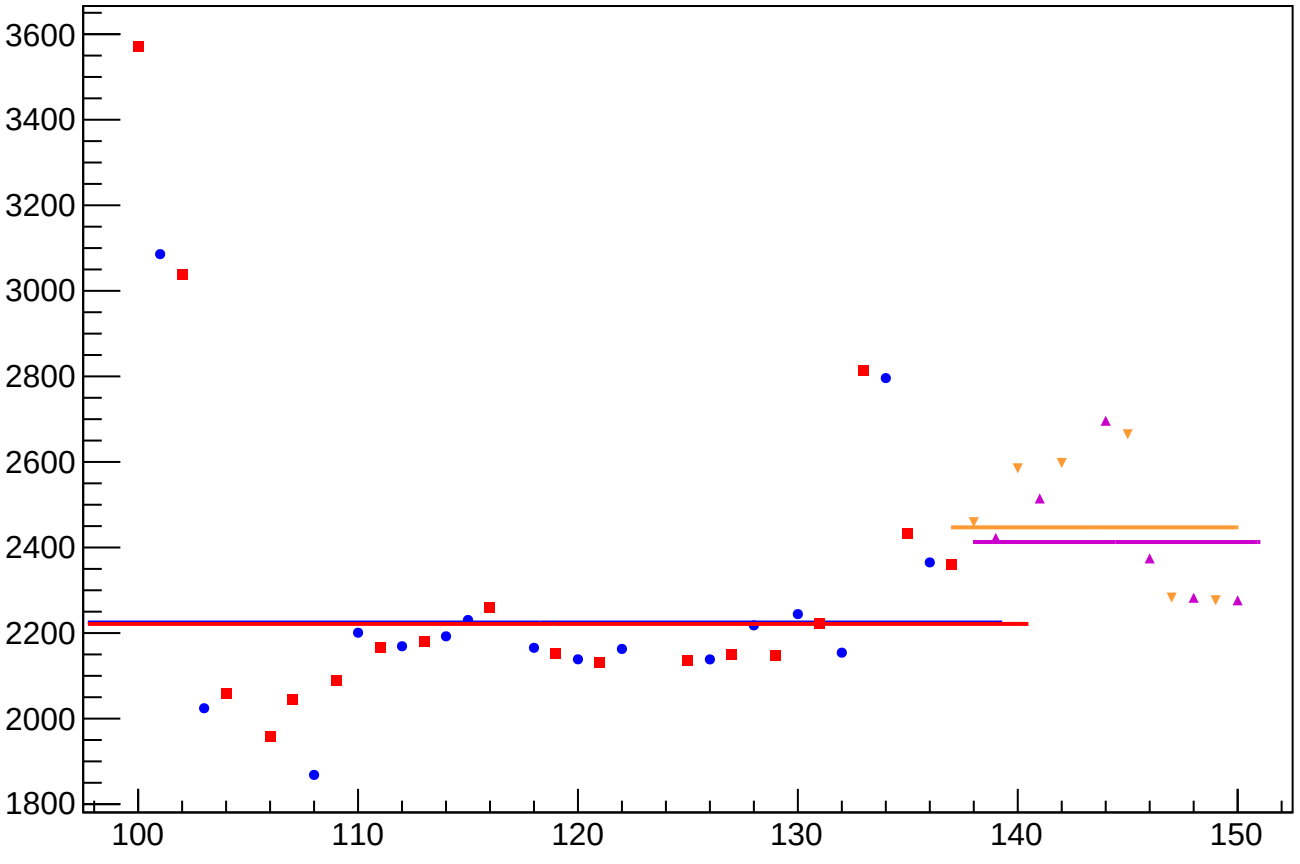
Left: 3615.637+/-776.988 $\chi^2$/NDF: 21.0/11

Right: 4832.794+/-591.493 $\chi^2$/NDF: 22.2/33

In: 5232.018+/-653.610 $\chi^2$/NDF:14.1/21

Out: 3475.485+/-678.238 $\chi^2$/NDF:27.1/23

All: 4386.222+/-470.638 $\chi^2$/NDF: 44.7/45




Right In: 2224.613+/-0.590 $\chi^2$/NDF: 184680.1/15

Left Out: 2447.102+/-0.814 $\chi^2$/NDF:36528.6/5

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2412.835+/-0.745 $\chi^2$/NDF:35207.7/5

Left: 2428.442+/-0.549 $\chi^2$/NDF: 72701.0/11

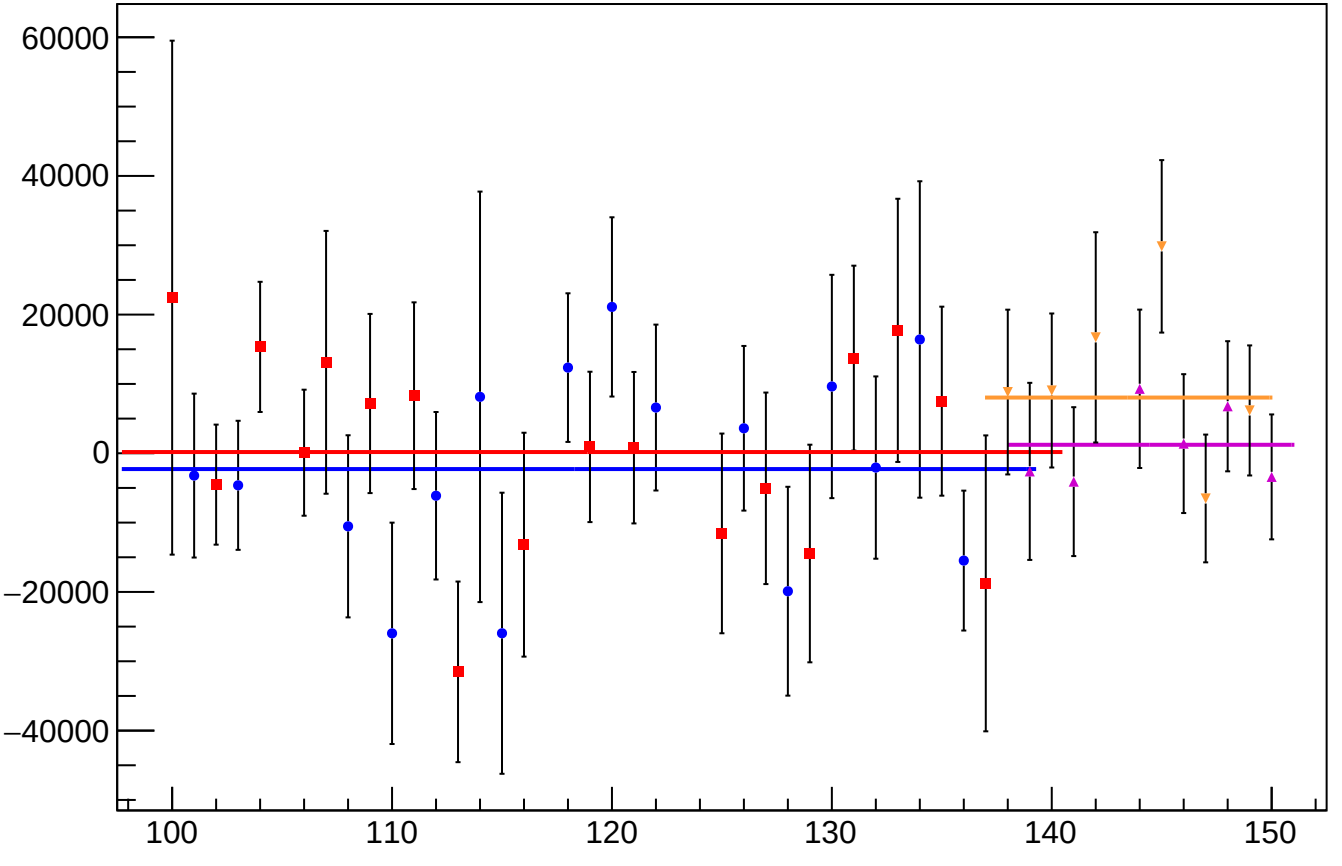
Right: 2223.029+/-0.418 $\chi^2$/NDF: 354639.0/33

In: 2297.144+/-0.462 $\chi^2$/NDF:259171.9/21

Out: 2299.678+/-0.479 $\chi^2$/NDF:256671.1/23

All: 2298.365+/-0.333 $\chi^2$/NDF: 515857.5/45

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -2278.418+/-3271.742 $\chi^2$/NDF: 14.5/15

Left Out: 8035.489+/-4510.708 $\chi^2$/NDF:5.9/5

Right Out: 177.029+/-3035.348 $\chi^2$/NDF: 15.6/17

Left In: 1222.839+/-4221.272 $\chi^2$/NDF:1.4/5

Left: 4403.595+/-3082.136 $\chi^2$/NDF: 8.6/11

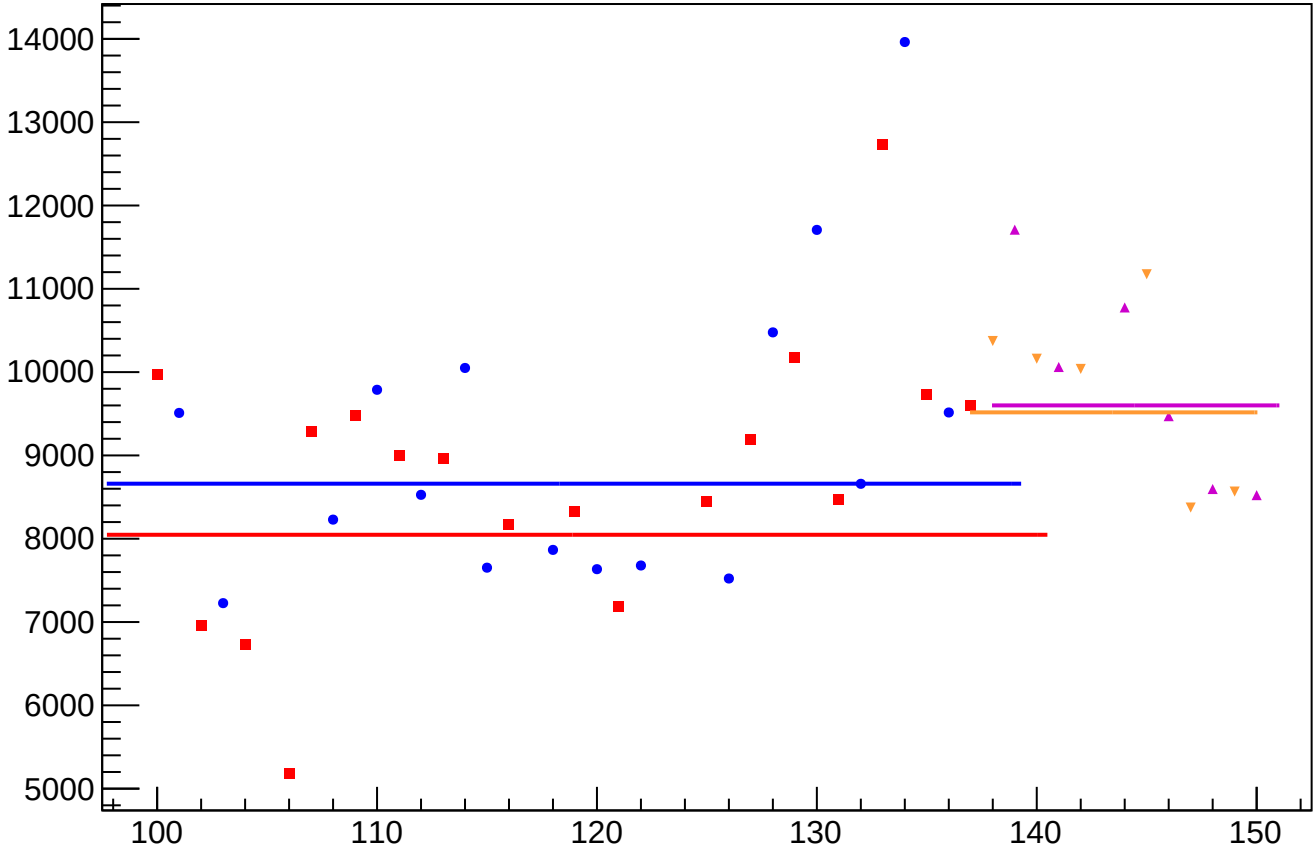
Right: -958.792+/-2225.198 $\chi^2$/NDF: 30.4/33

In: -964.463+/-2585.958 $\chi^2$/NDF:16.4/21

Out: 2626.389+/-2518.270 $\chi^2$/NDF:23.7/23

All: 878.573+/-1804.141 $\chi^2$/NDF: 41.0/45

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 8660.711+/-2.313 $\chi^2$/NDF: 357964.1/15

Left Out: 9516.842+/-3.190 $\chi^2$/NDF:106310.0/5

Right Out: 8047.442+/-2.146 $\chi^2$/NDF: 558557.8/17

Left In: 9600.431+/-2.985 $\chi^2$/NDF:131266.0/5

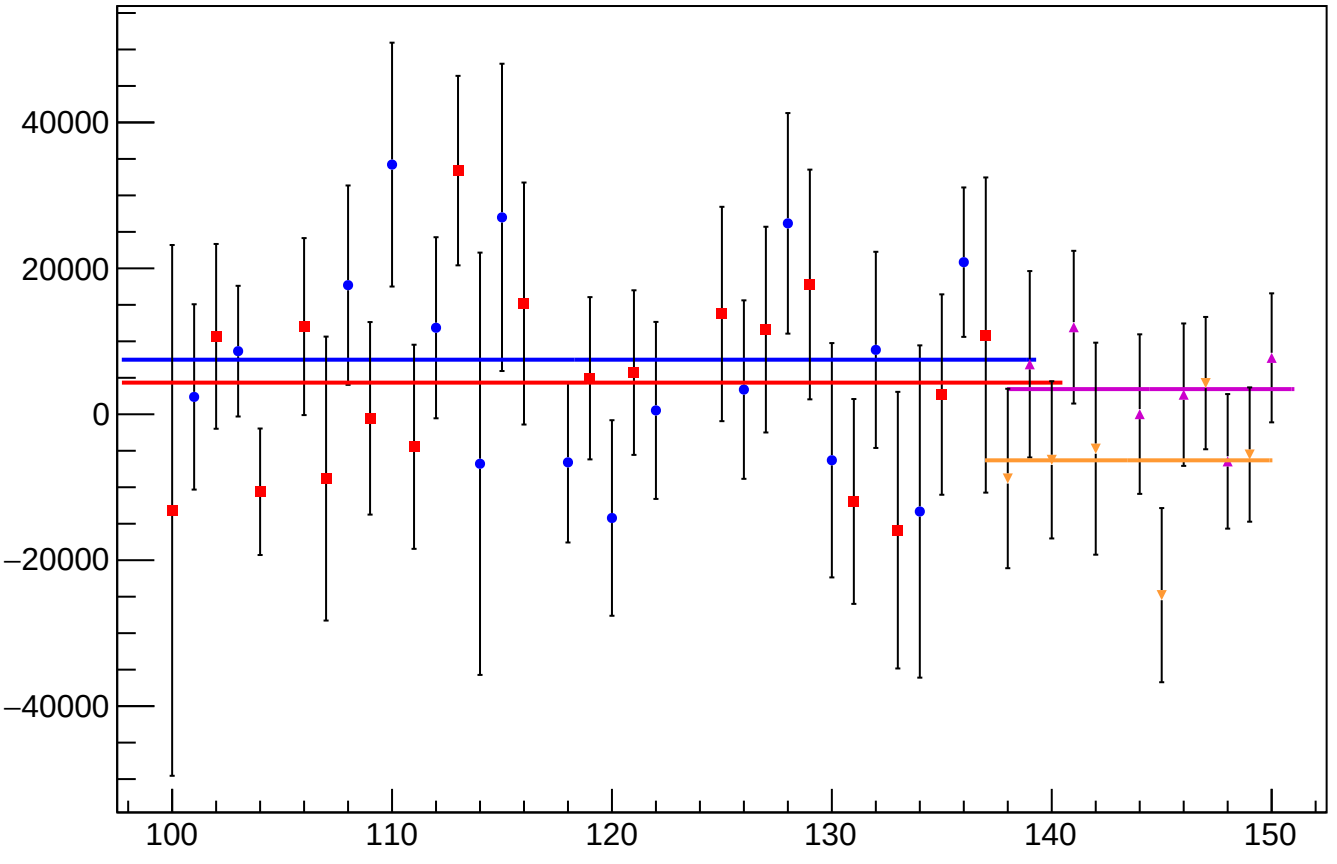
Left: 9561.405+/-2.179 $\chi^2$/NDF: 237942.2/11

Right: 8331.123+/-1.573 $\chi^2$/NDF: 954287.4/33

In: 9013.370+/-1.829 $\chi^2$/NDF:551149.3/21

Out: 8505.431+/-1.781 $\chi^2$/NDF:810953.7/23

All: 8752.666+/-1.276 $\chi^2$/NDF: 1401707.7/45




Right In: 7481.770+/-3330.915 $\chi^2$/NDF: 14.0/15

Left Out: -6309.829+/-4430.247 $\chi^2$/NDF:3.8/5

Right Out: 4338.165+/-3242.620 $\chi^2$/NDF: 14.3/17

Left In: 3451.381+/-4128.431 $\chi^2$/NDF:2.2/5

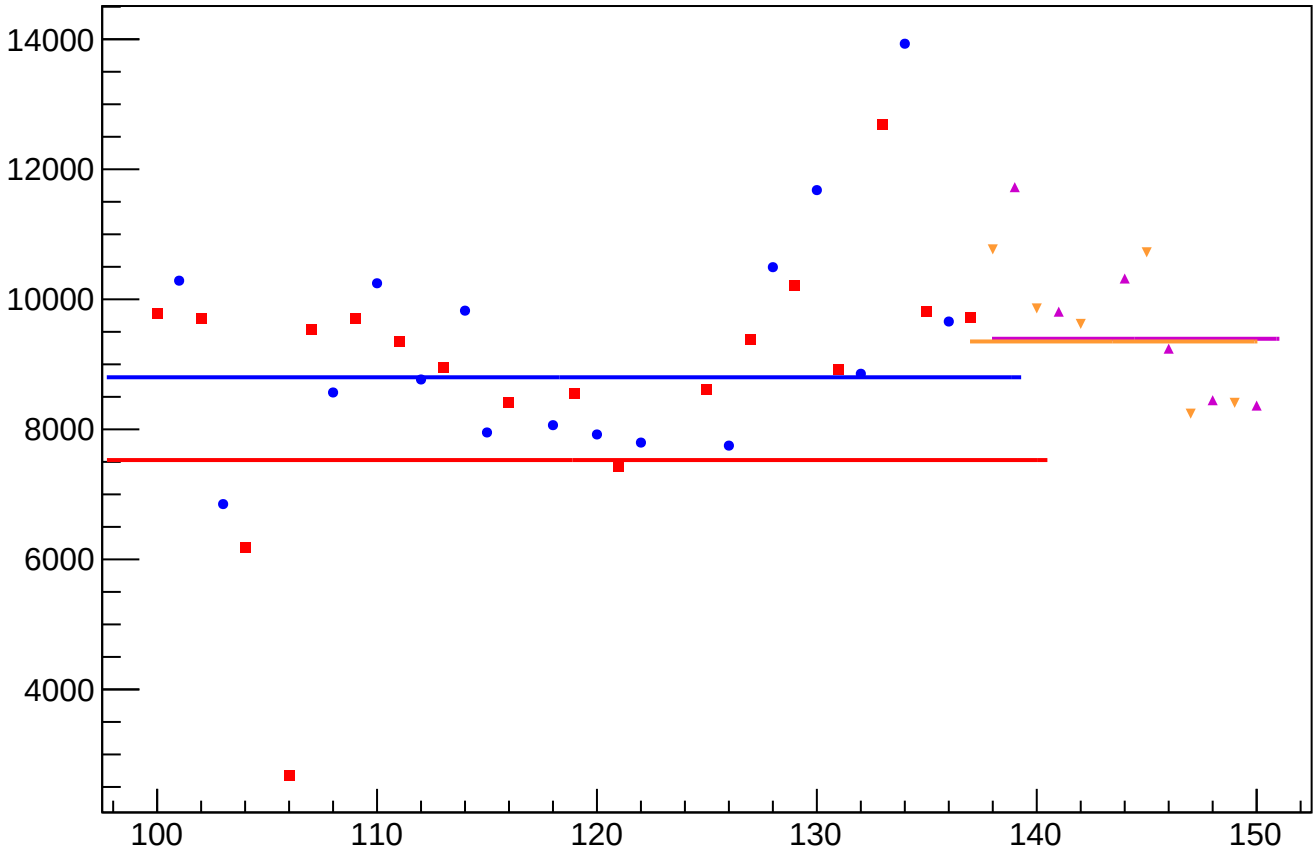
Left: -1085.429+/-3020.309 $\chi^2$/NDF: 8.6/11

Right: 5867.751+/-2323.467 $\chi^2$/NDF: 28.8/33

In: 5892.614+/-2592.357 $\chi^2$/NDF:16.8/21

Out: 623.731+/-2616.618 $\chi^2$/NDF:21.9/23

All: 3282.713+/-1841.591 $\chi^2$/NDF: 40.8/45




Right In: 8801.075+/-2.355 $\chi^2$/NDF: 394575.1/15

Left Out: 9351.871+/-3.133 $\chi^2$/NDF:109090.5/5

Right Out: 7527.803+/-2.128 $\chi^2$/NDF: 1657299.8/17

Left In: 9393.298+/-2.919 $\chi^2$/NDF:132692.1/5

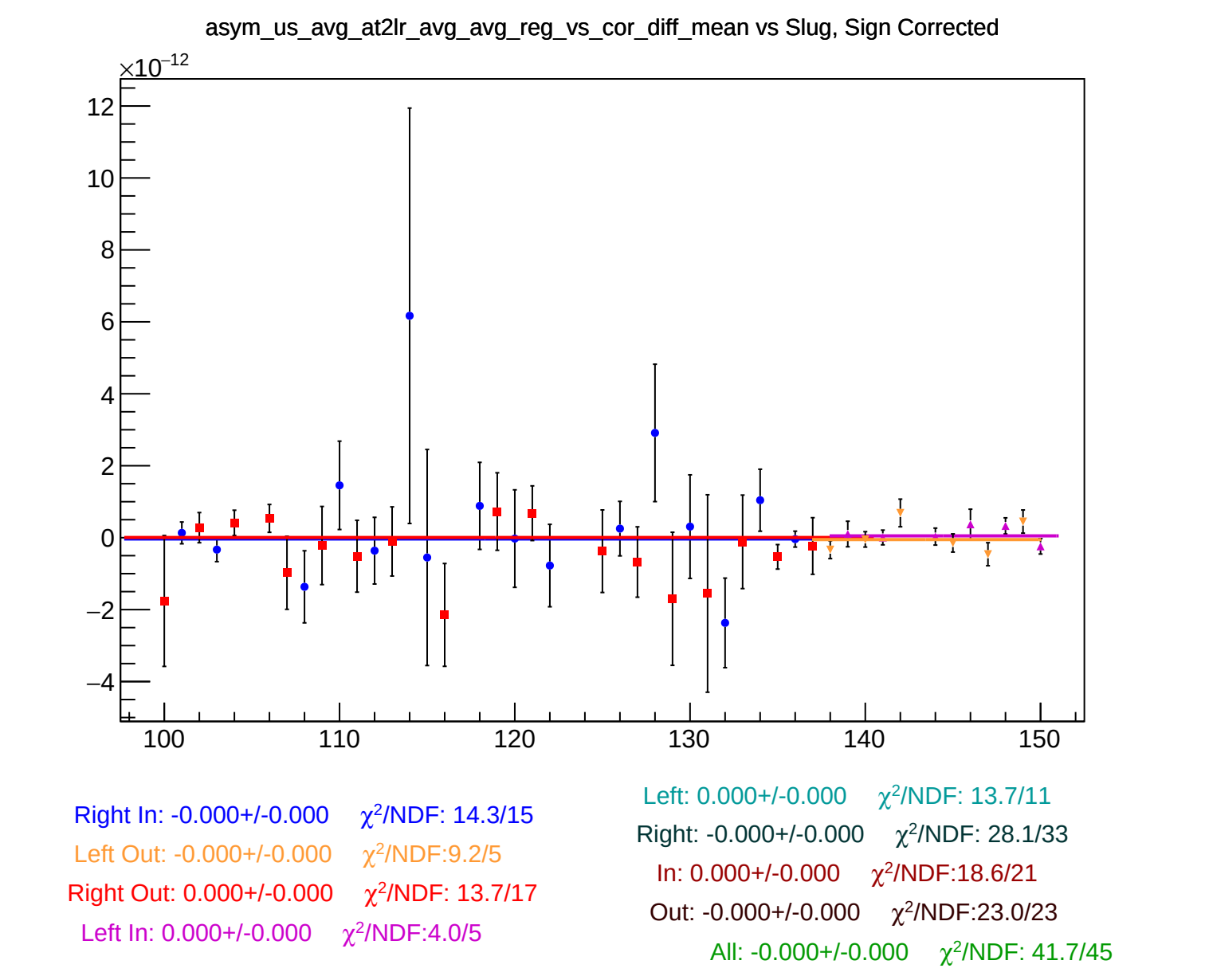
Left: 9374.044+/-2.136 $\chi^2$/NDF: 241876.2/11

Right: 8100.150+/-1.579 $\chi^2$/NDF: 2212756.1/33

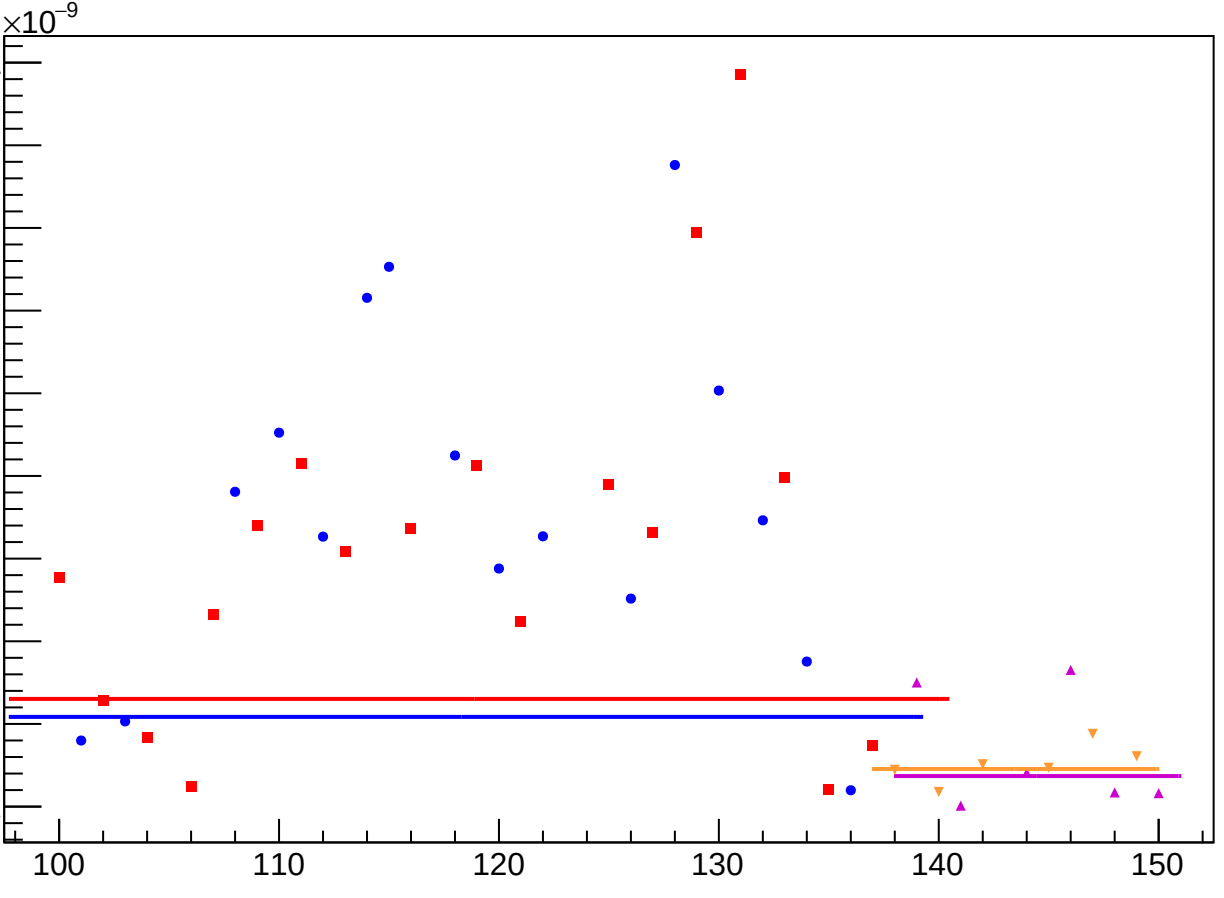
In: 9034.581+/-1.833 $\chi^2$/NDF:552195.8/21

Out: 8103.862+/-1.760 $\chi^2$/NDF:1998360.7/23

All: 8550.426+/-1.270 $\chi^2$/NDF: 2684663.1/45


asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
12
10
8
6
4
2
0
−2
−4
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 14.3/15
Left Out: -0.000+/-0.000 χ²/NDF:9.2/5
Right Out: 0.000+/-0.000 χ²/NDF: 13.7/17
Left In: 0.000+/-0.000 χ²/NDF:4.0/5
Left: 0.000+/-0.000 χ²/NDF: 13.7/11
Right: -0.000+/-0.000 χ²/NDF: 28.1/33
In: 0.000+/-0.000 χ²/NDF:18.6/21
Out: -0.000+/-0.000 χ²/NDF:23.0/23
All: -0.000+/-0.000 χ²/NDF: 41.7/45

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1632322.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:74190.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1561654.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:486190.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 566832.6/11

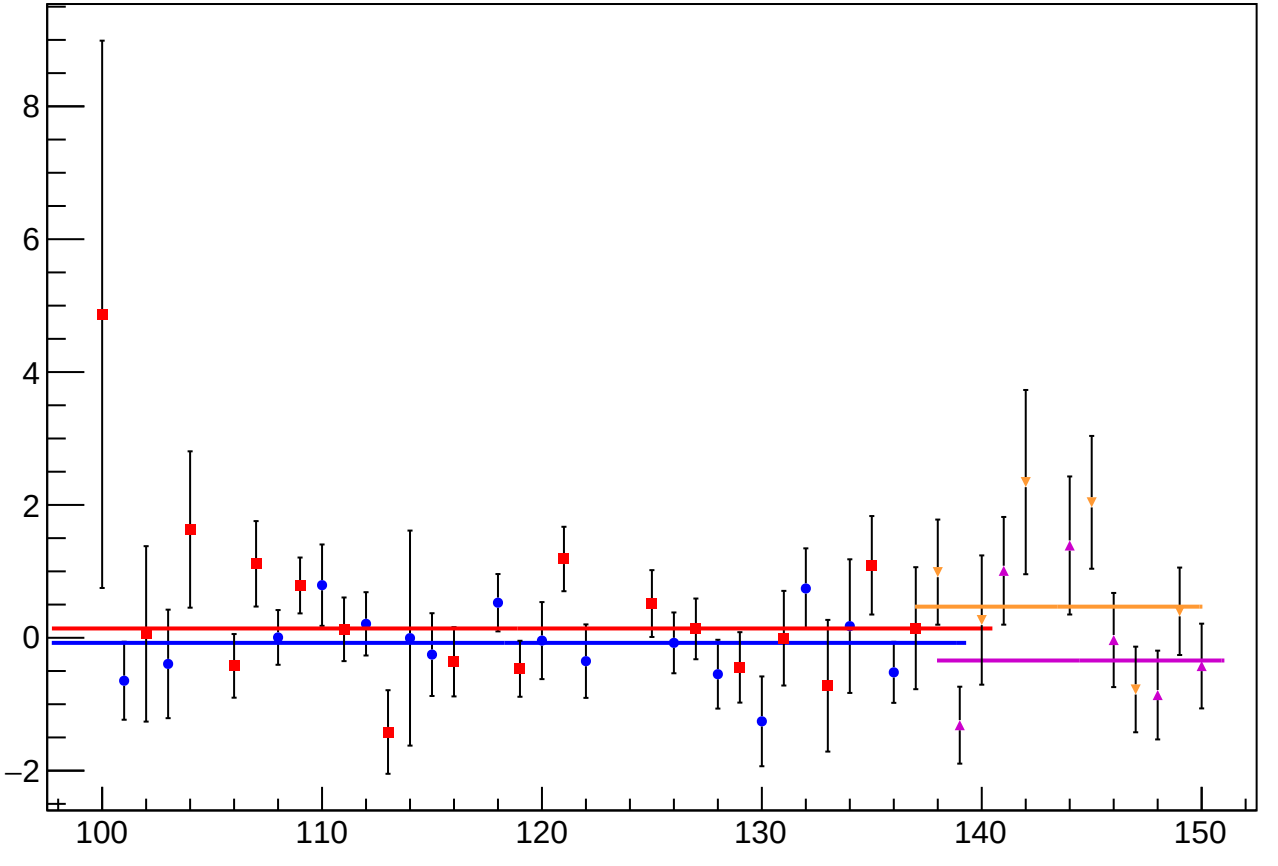
Right: 0.000+/-0.000 $\chi^2$/NDF: 3215206.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:2455454.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2023655.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4501472.0/45

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: 0.469+/-0.335 $\chi^2$/NDF:8.5/5

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.342+/-0.287 $\chi^2$/NDF:9.2/5

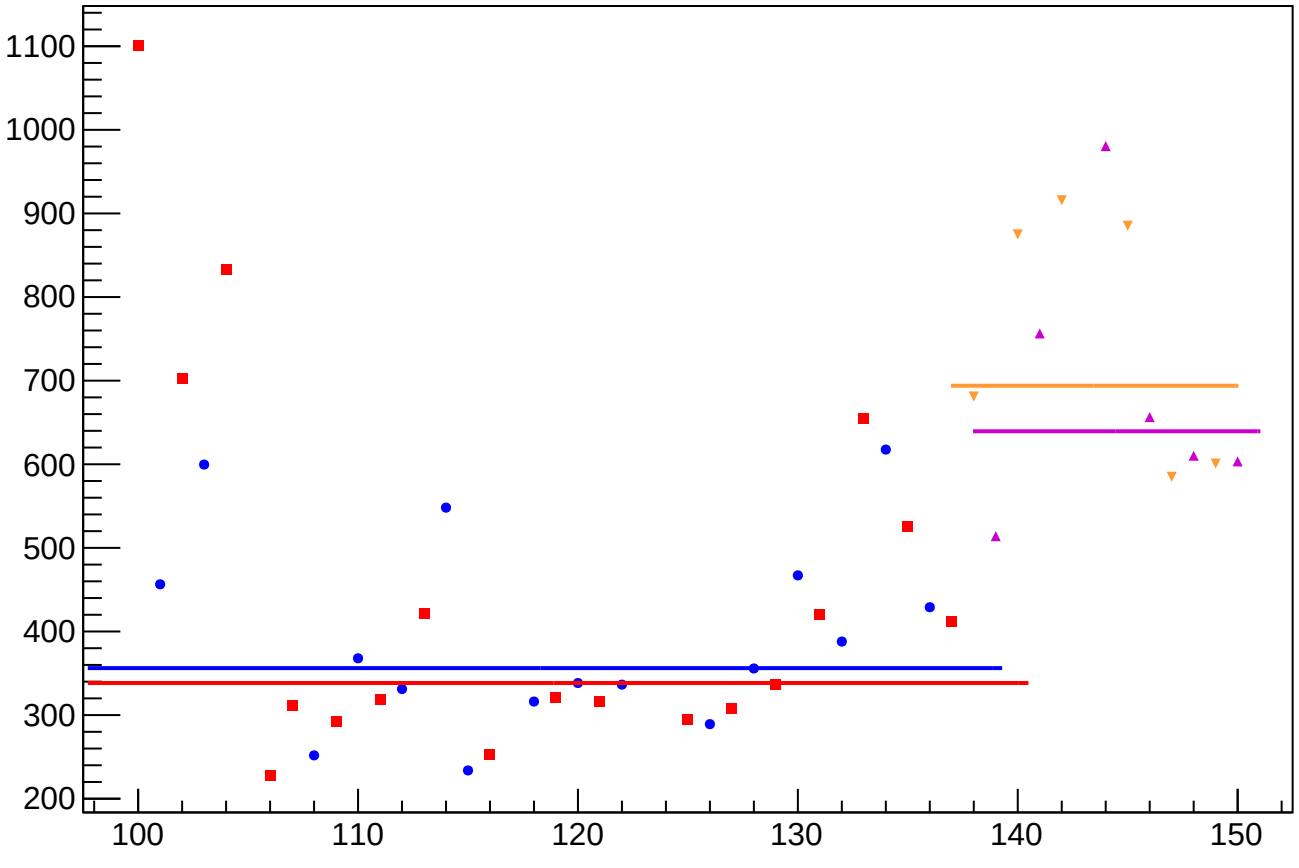
Left: 0.001+/-0.218 $\chi^2$/NDF: 21.1/11

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

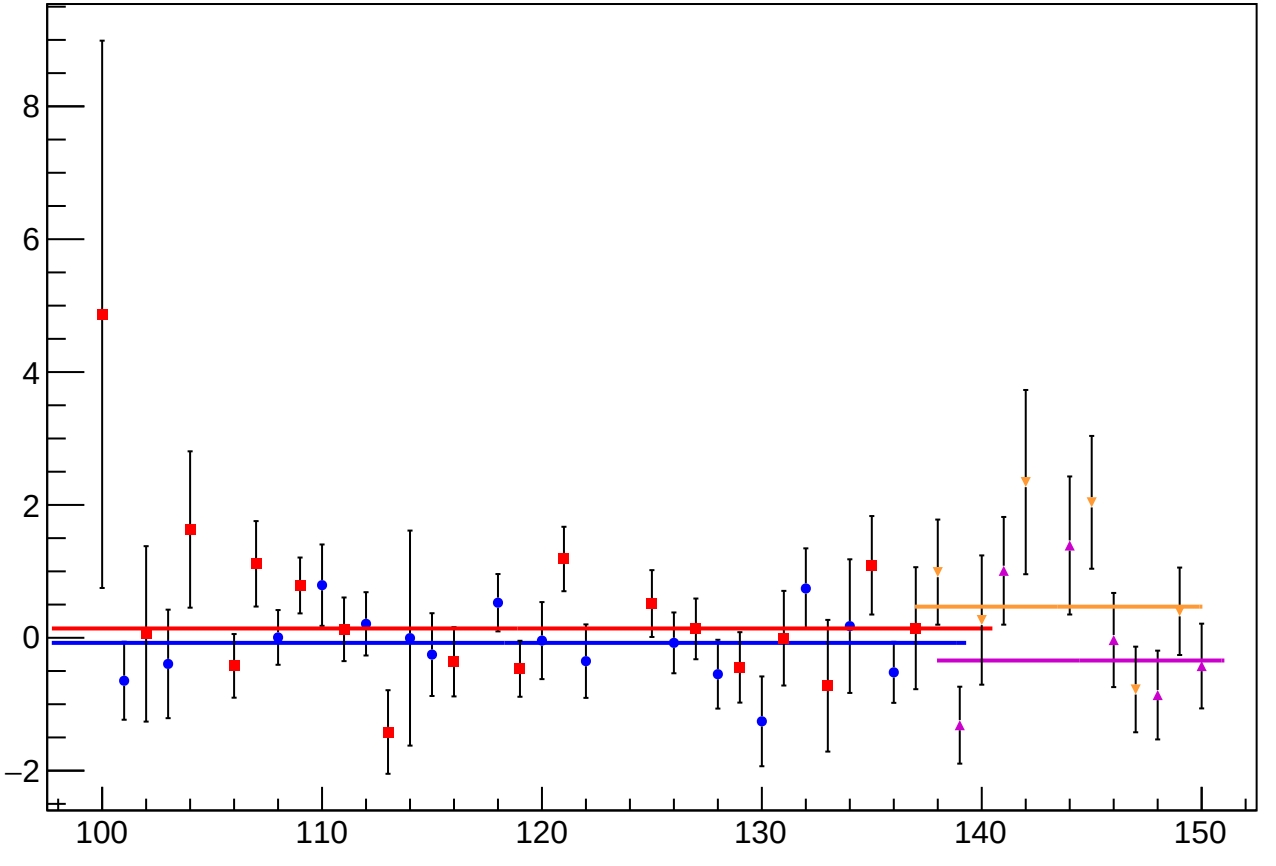
In: -0.127+/-0.126 $\chi^2$/NDF:22.4/21

Out: 0.188+/-0.128 $\chi^2$/NDF:36.3/23

All: 0.028+/-0.090 $\chi^2$/NDF: 61.8/45


asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected
1100
1000
900
800
700
600
500
400
300
200
100
110
120
130
140
150
Right In: 356.190+/-0.099 χ²/NDF: 785107.3/15
Left Out: 693.946+/-0.237 χ²/NDF:291277.1/5
Right Out: 338.410+/-0.098 χ²/NDF: 1203282.0/17
Left In: 639.460+/-0.203 χ²/NDF:362390.7/5
Left: 662.517+/-0.154 χ²/NDF: 684115.8/11
Right: 347.176+/-0.069 χ²/NDF: 2004764.4/33
In: 410.497+/-0.089 χ²/NDF:2719493.9/21
Out: 389.871+/-0.090 χ²/NDF:3416824.0/23
All: 400.332+/-0.063 χ²/NDF: 6162823.6/45

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: 0.469+/-0.335 $\chi^2$/NDF:8.5/5

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.342+/-0.287 $\chi^2$/NDF:9.2/5

Left: 0.001+/-0.218 $\chi^2$/NDF: 21.1/11

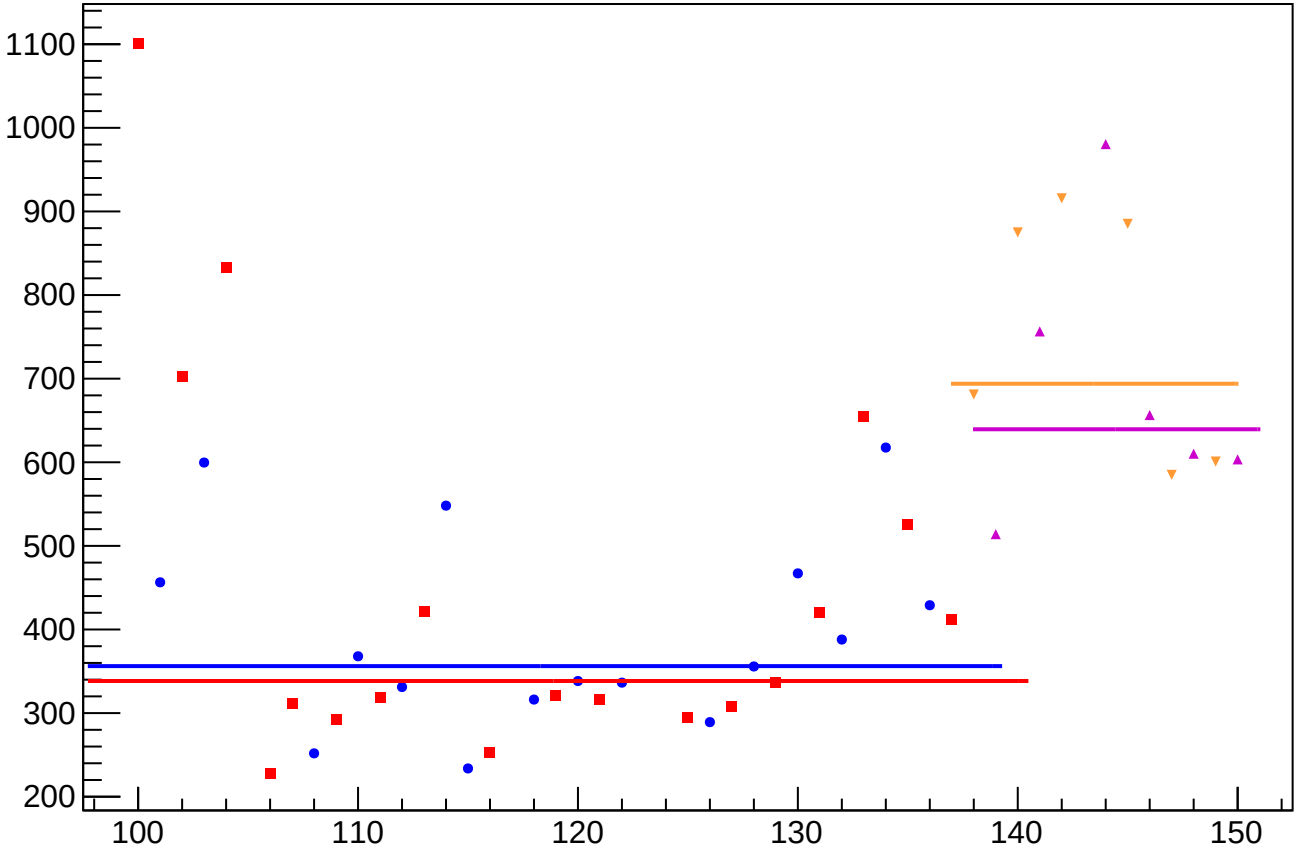
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.127+/-0.126 $\chi^2$/NDF:22.4/21

Out: 0.188+/-0.128 $\chi^2$/NDF:36.3/23

All: 0.028+/-0.090 $\chi^2$/NDF: 61.8/45

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 356.190+/-0.099 $\chi^2$/NDF: 785107.3/15

Left Out: 693.946+/-0.237 $\chi^2$/NDF:291277.1/5

Right Out: 338.410+/-0.098 $\chi^2$/NDF: 1203282.0/17

Left In: 639.460+/-0.203 $\chi^2$/NDF:362390.7/5

Left: 662.517+/-0.154 $\chi^2$/NDF: 684115.8/11

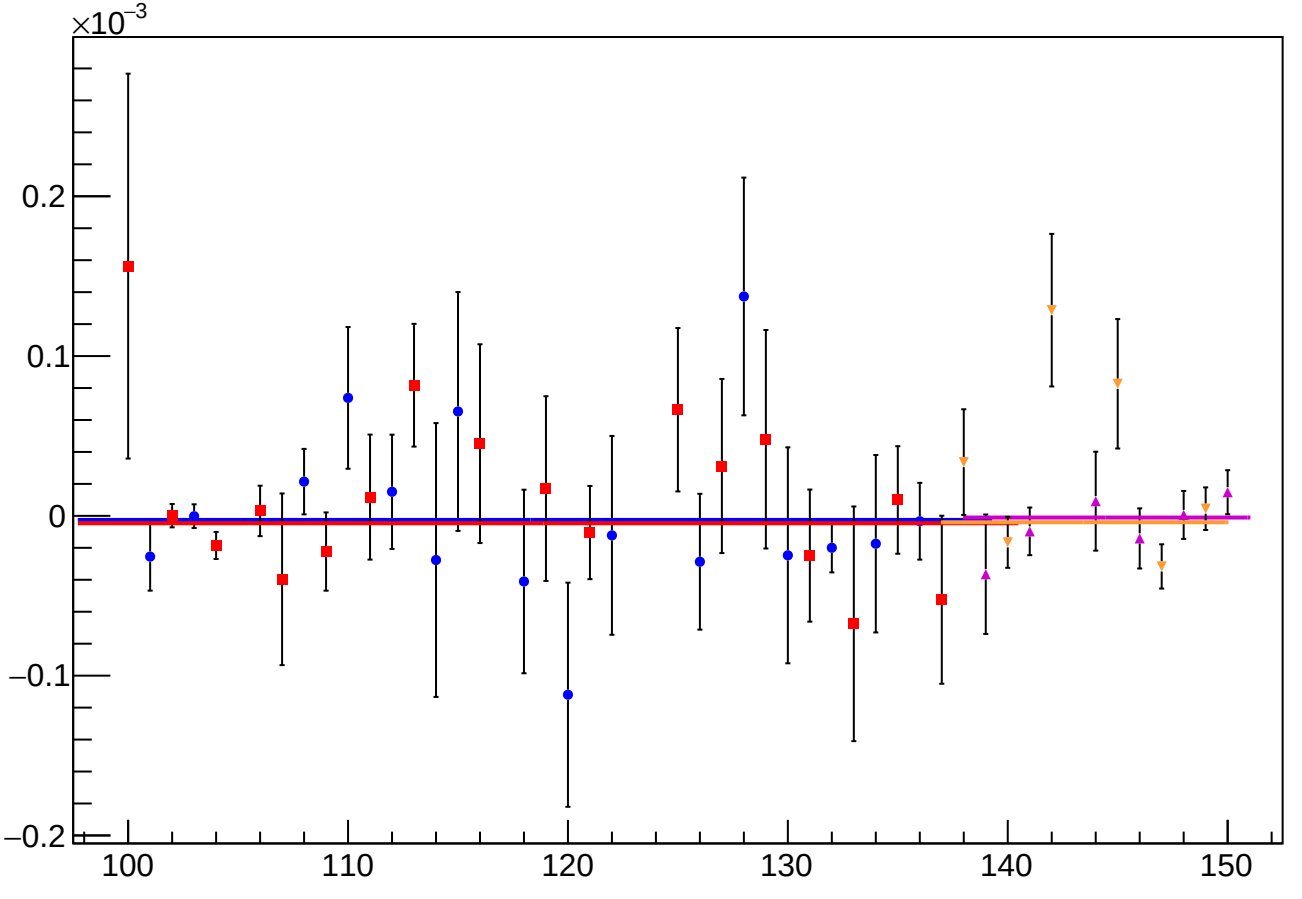
Right: 347.176+/-0.069 $\chi^2$/NDF: 2004764.4/33

In: 410.497+/-0.089 $\chi^2$/NDF:2719493.9/21

Out: 389.871+/-0.090 $\chi^2$/NDF:3416824.0/23

All: 400.332+/-0.063 $\chi^2$/NDF: 6162823.6/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.6/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.2/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 21.8/11

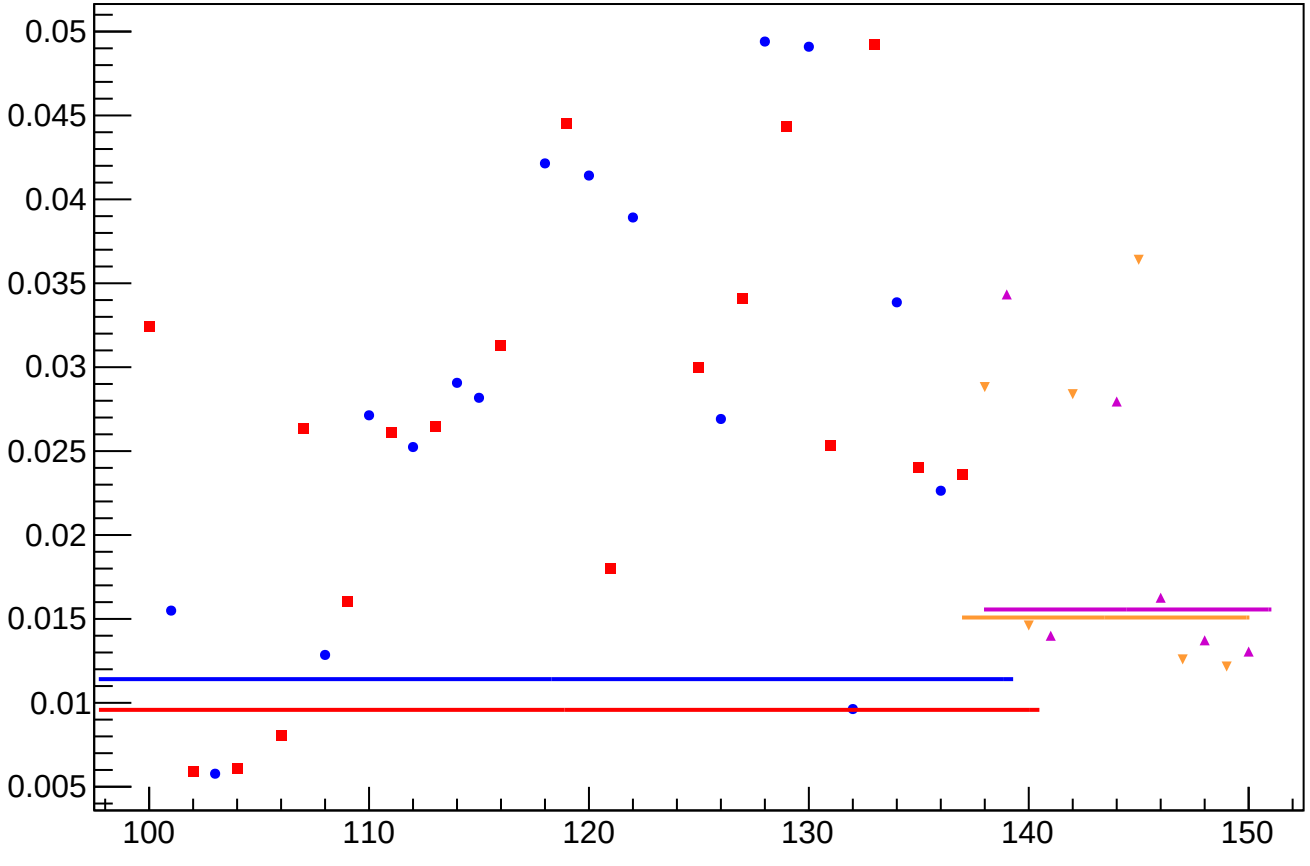
Right: -0.000+/-0.000 $\chi^2$/NDF: 32.2/33

In: -0.000+/-0.000 $\chi^2$/NDF:18.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 54.1/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 5500651.2/15

Left Out: 0.015+/-0.000 $\chi^2$/NDF:1216969.3/5

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 5787700.4/17

Left In: 0.016+/-0.000 $\chi^2$/NDF:946112.4/5

Left: 0.015+/-0.000 $\chi^2$/NDF: 2167138.9/11

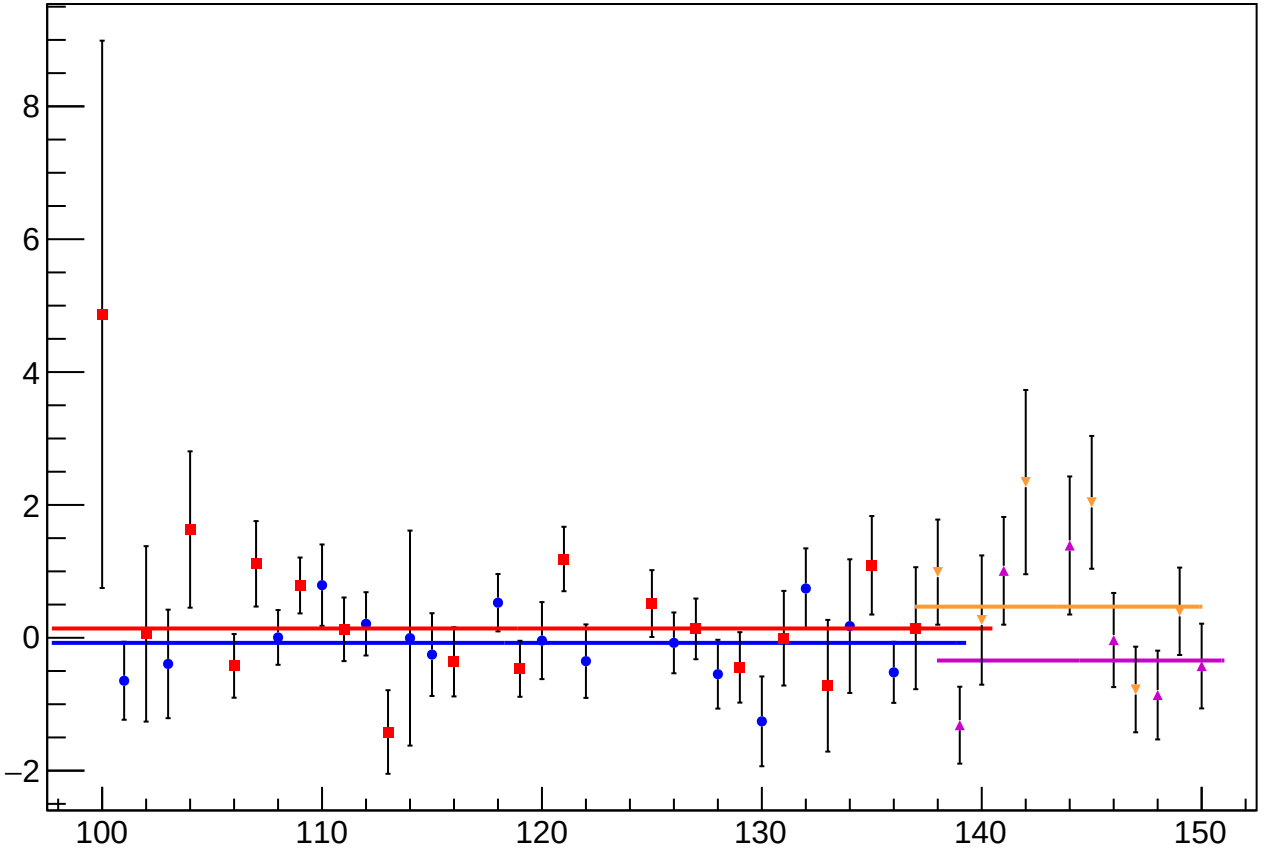
Right: 0.010+/-0.000 $\chi^2$/NDF: 11414181.9/33

In: 0.013+/-0.000 $\chi^2$/NDF:6855877.9/21

Out: 0.011+/-0.000 $\chi^2$/NDF:7743006.8/23

All: 0.012+/-0.000 $\chi^2$/NDF: 14791940.3/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: 0.469+/-0.335 $\chi^2$/NDF:8.5/5

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.342+/-0.287 $\chi^2$/NDF:9.2/5

Left: 0.001+/-0.218 $\chi^2$/NDF: 21.1/11

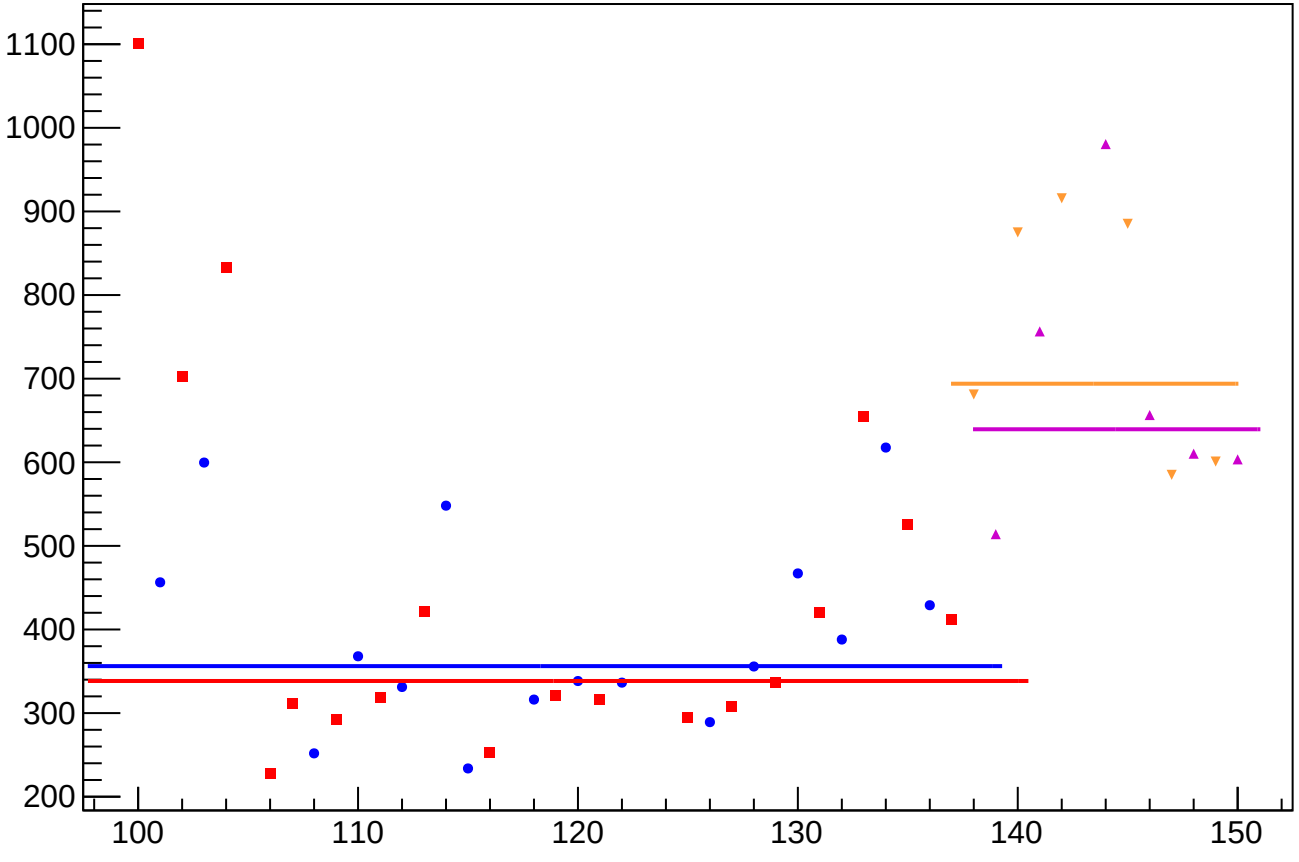
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.127+/-0.126 $\chi^2$/NDF:22.4/21

Out: 0.188+/-0.128 $\chi^2$/NDF:36.3/23

All: 0.028+/-0.090 $\chi^2$/NDF: 61.8/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 356.188+/-0.099 $\chi^2$/NDF: 785072.9/15

Left Out: 693.953+/-0.237 $\chi^2$/NDF:291281.9/5

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 639.470+/-0.203 $\chi^2$/NDF:362379.2/5

Left: 662.526+/-0.154 $\chi^2$/NDF: 684106.1/11

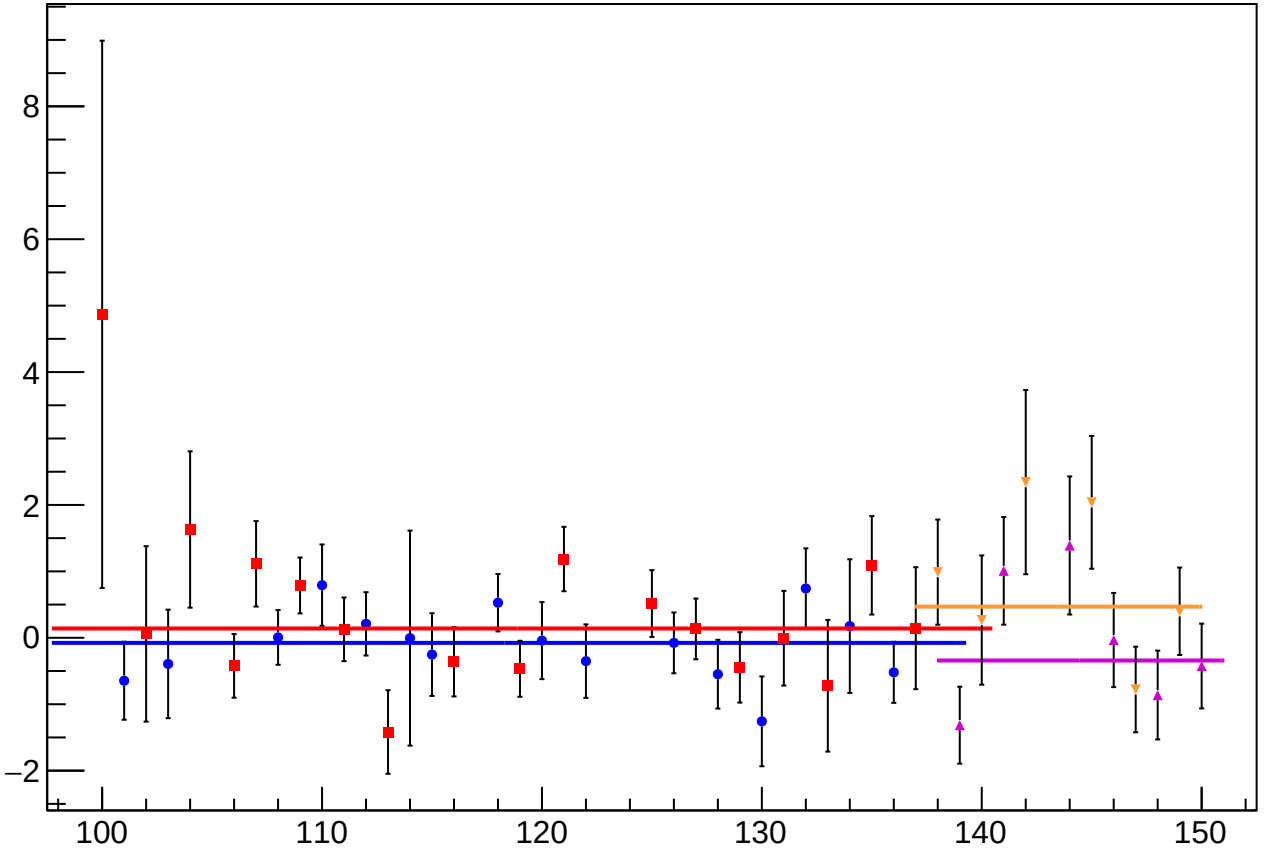
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 410.496+/-0.089 $\chi^2$/NDF:2719535.7/21

Out: 389.869+/-0.090 $\chi^2$/NDF:3416879.6/23

All: 400.331+/-0.063 $\chi^2$/NDF: 6162924.2/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: 0.469+/-0.335 $\chi^2$/NDF:8.5/5

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.342+/-0.287 $\chi^2$/NDF:9.2/5

Left: 0.001+/-0.218 $\chi^2$/NDF: 21.1/11

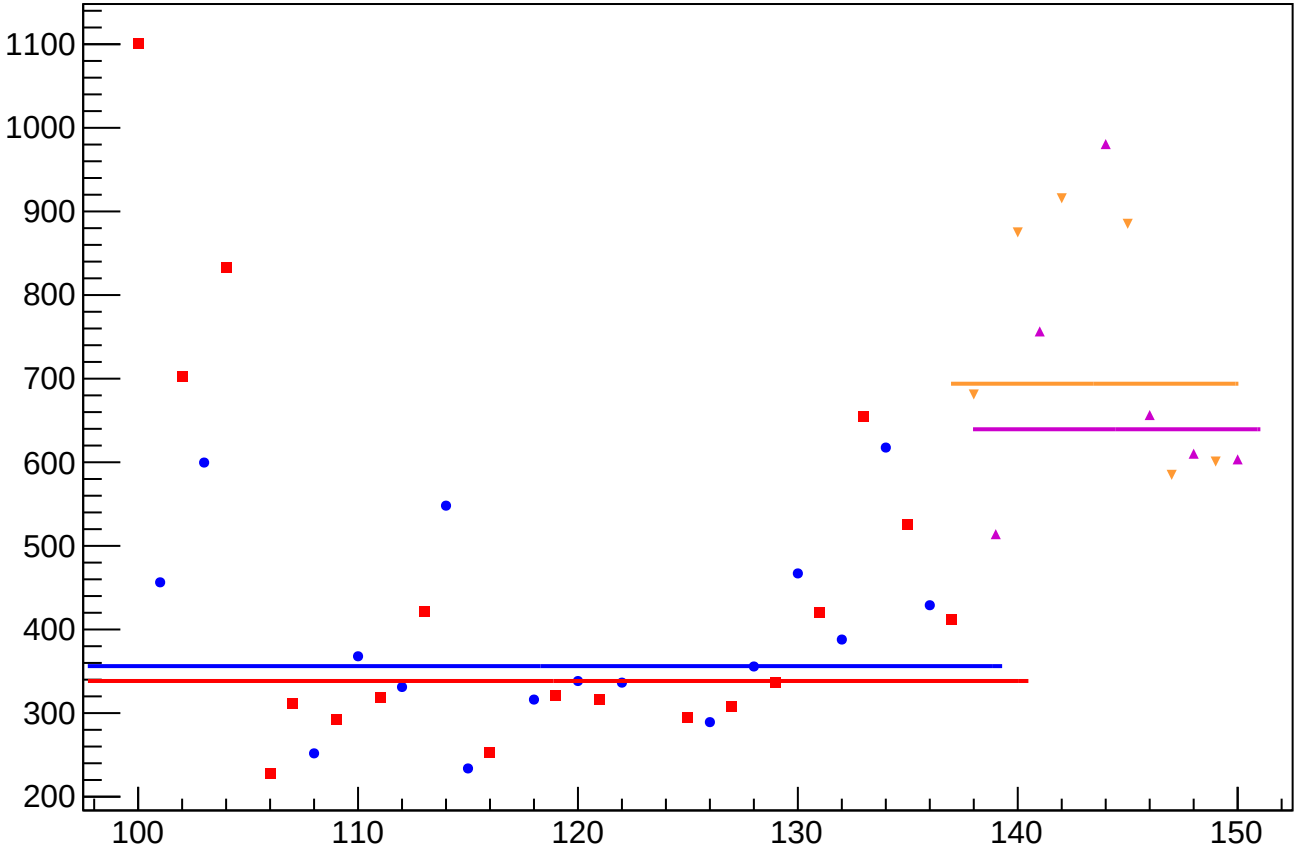
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.127+/-0.126 $\chi^2$/NDF:22.4/21

Out: 0.188+/-0.128 $\chi^2$/NDF:36.3/23

All: 0.028+/-0.090 $\chi^2$/NDF: 61.8/45

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 356.188+/-0.099 $\chi^2$/NDF: 785072.9/15

Left Out: 693.953+/-0.237 $\chi^2$/NDF:291281.9/5

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 639.470+/-0.203 $\chi^2$/NDF:362379.2/5

Left: 662.526+/-0.154 $\chi^2$/NDF: 684106.1/11

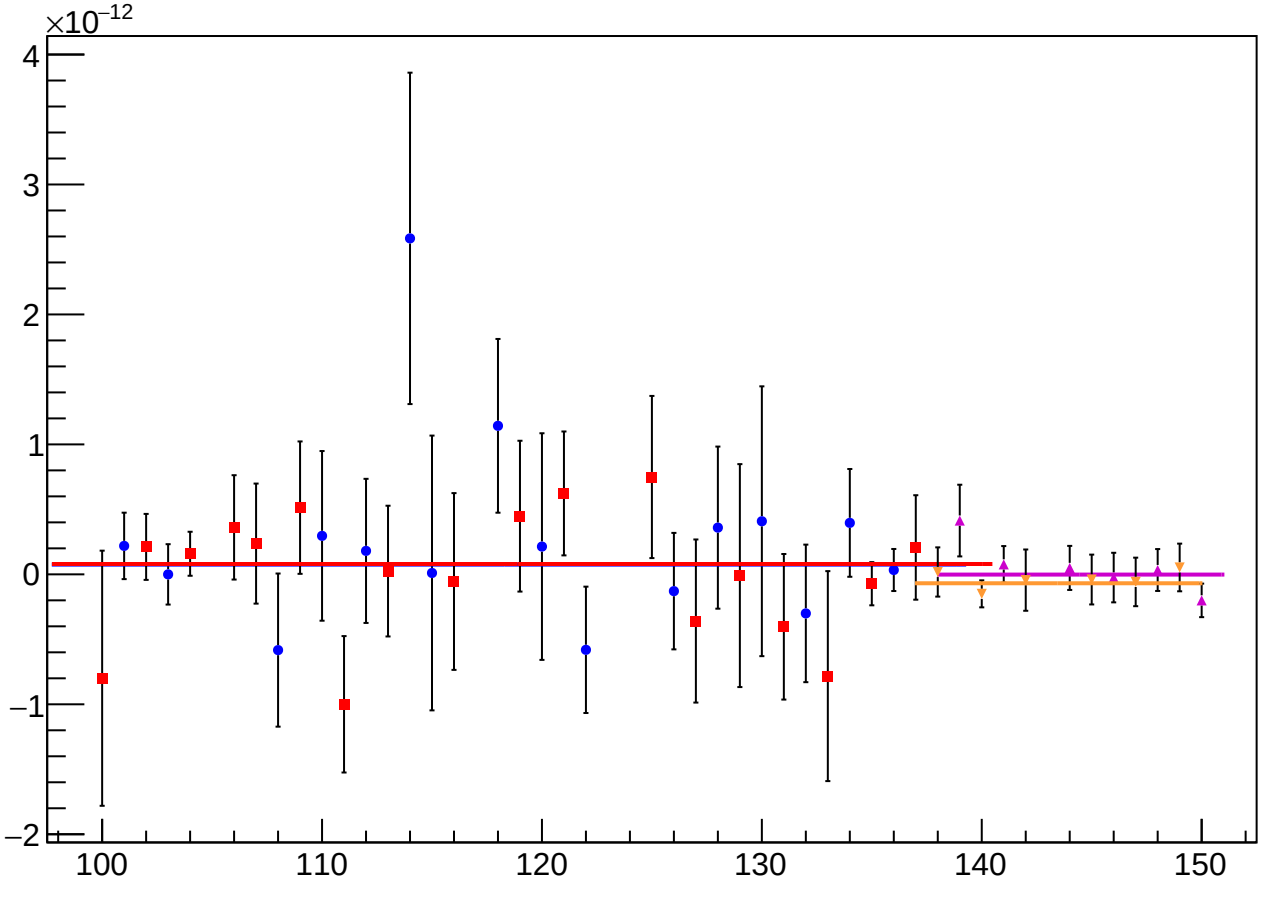
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 410.496+/-0.089 $\chi^2$/NDF:2719535.7/21

Out: 389.869+/-0.090 $\chi^2$/NDF:3416879.6/23

All: 400.331+/-0.063 $\chi^2$/NDF: 6162924.2/45

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.1/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 6.9/11

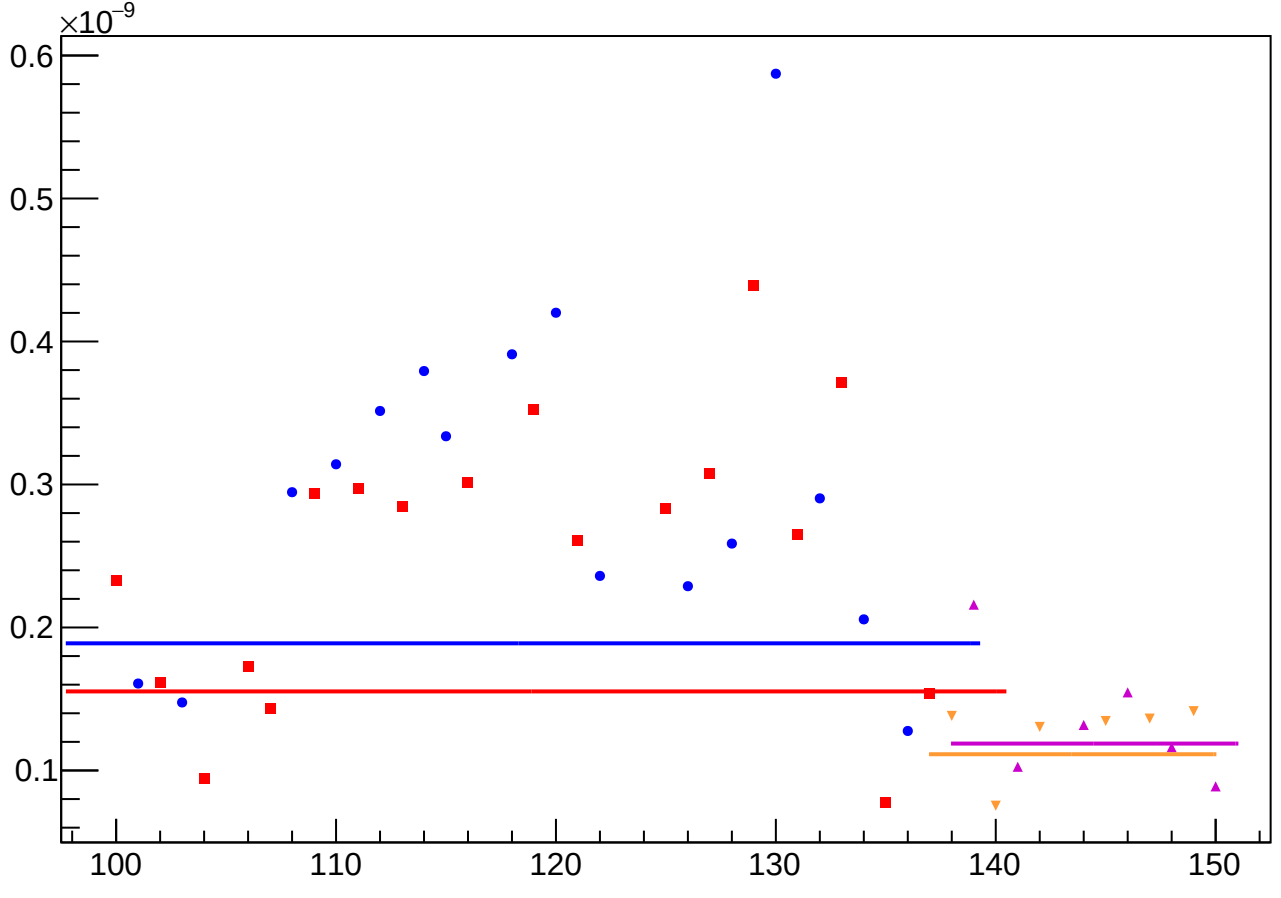
Right: 0.000+/-0.000 $\chi^2$/NDF: 24.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 33.8/45

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1520620.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:412036.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2200687.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:465050.5/5

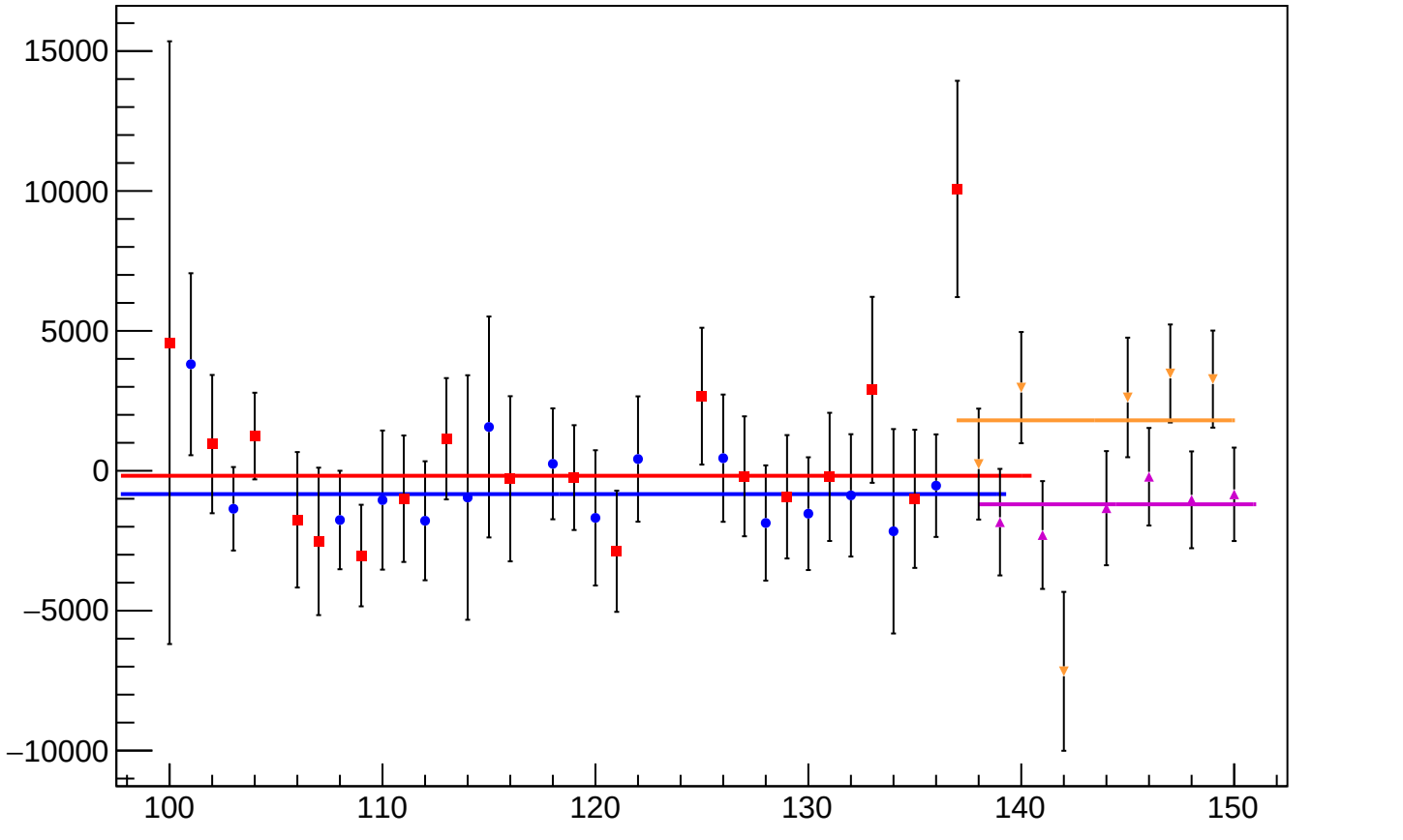
Left: 0.000+/-0.000 $\chi^2$/NDF: 889572.0/11

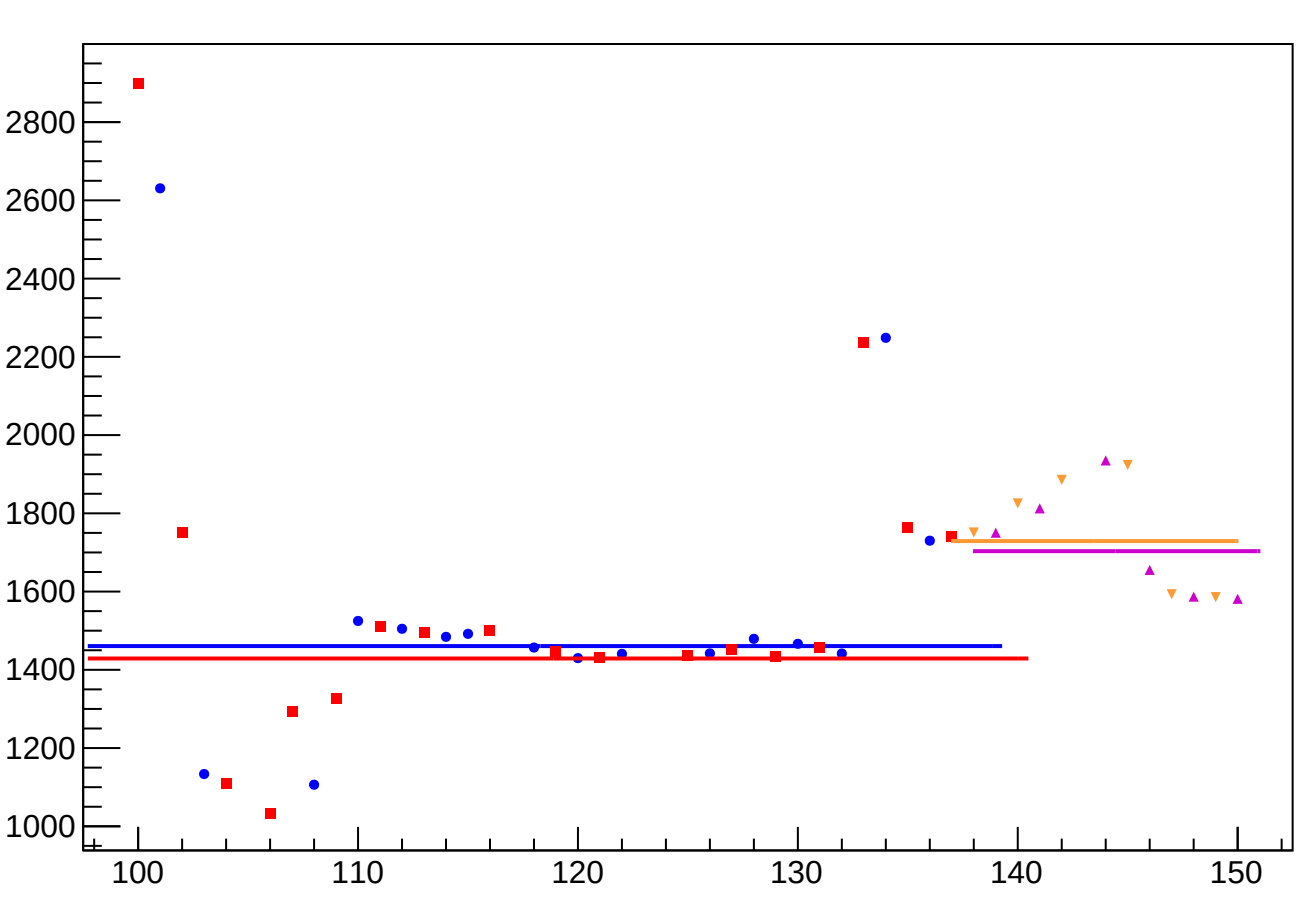
Right: 0.000+/-0.000 $\chi^2$/NDF: 3857679.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:2700746.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2940780.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5704868.5/45


reg_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -833.479+/-554.833 χ²/NDF: 4.6/15
Left Out: 1802.779+/-814.089 χ²/NDF:12.7/5
Right Out: -178.292+/-547.824 χ²/NDF: 16.5/17
Left In: -1197.788+/-743.869 χ²/NDF:0.8/5
Left: 167.528+/-549.145 χ²/NDF: 21.0/11
Right: -501.721+/-389.824 χ²/NDF: 21.8/33
In: -963.706+/-444.745 χ²/NDF:5.6/21
Out: 439.186+/-454.499 χ²/NDF:33.3/23
All: -277.474+/-317.875 χ²/NDF: 43.7/45




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.1/15

Left Out: 1729.094+/-0.576 $\chi^2$/NDF:53309.5/5

Right Out: 1428.940+/-0.385 $\chi^2$/NDF: 411275.6/17

Left In: 1703.291+/-0.526 $\chi^2$/NDF:54703.9/5

Left: 1715.032+/-0.388 $\chi^2$/NDF: 109108.4/11

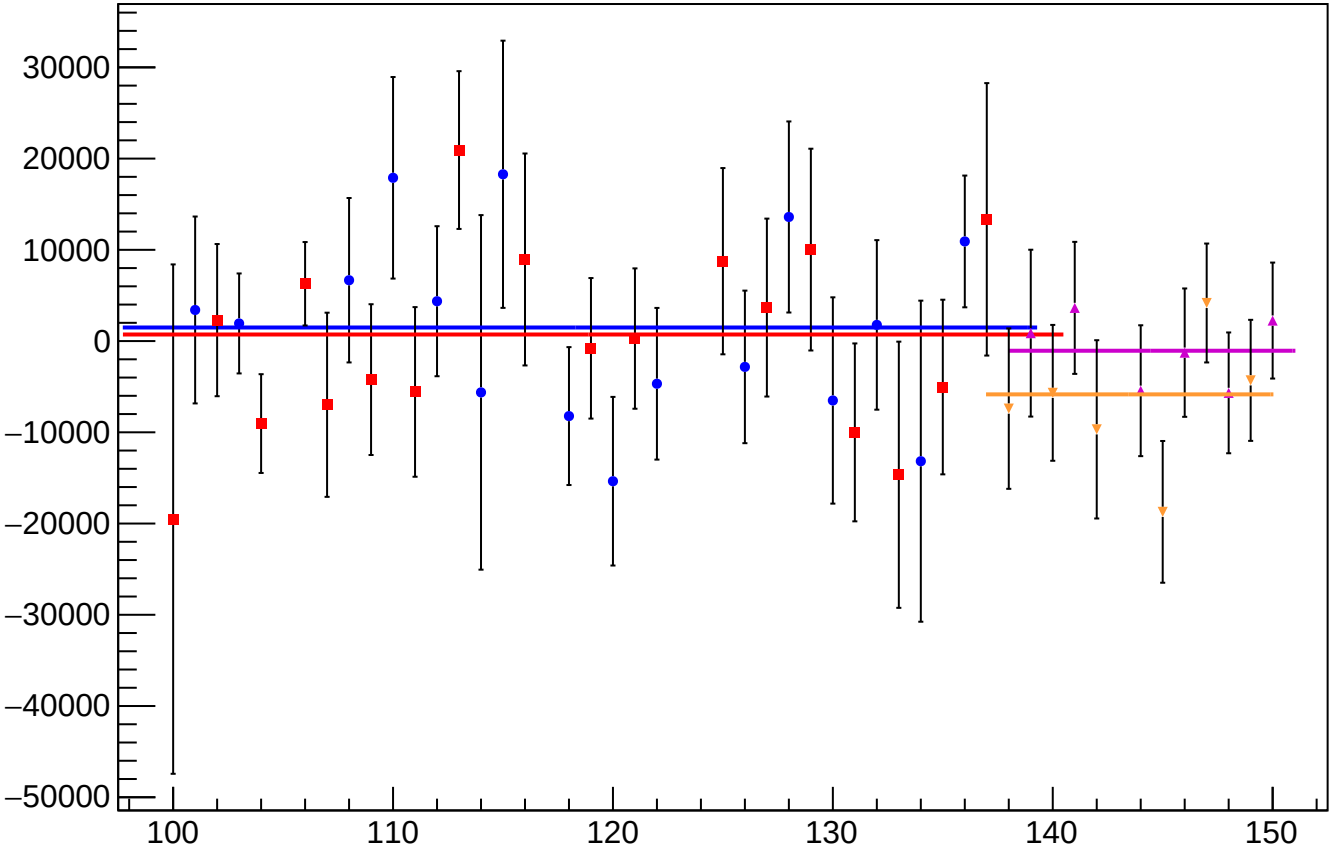
Right: 1444.478+/-0.275 $\chi^2$/NDF: 990344.6/33

In: 1547.387+/-0.314 $\chi^2$/NDF:767165.7/21

Out: 1521.544+/-0.320 $\chi^2$/NDF:652584.0/23

All: 1534.680+/-0.224 $\chi^2$/NDF: 1423070.2/45

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 1487.438+/-2268.028 $\chi^2$/NDF: 14.2/15

Left Out: -5842.006+/-3096.496 $\chi^2$/NDF:5.3/5

Right Out: 720.166+/-2011.559 $\chi^2$/NDF: 17.5/17

Left In: -1060.468+/-2907.660 $\chi^2$/NDF:1.6/5

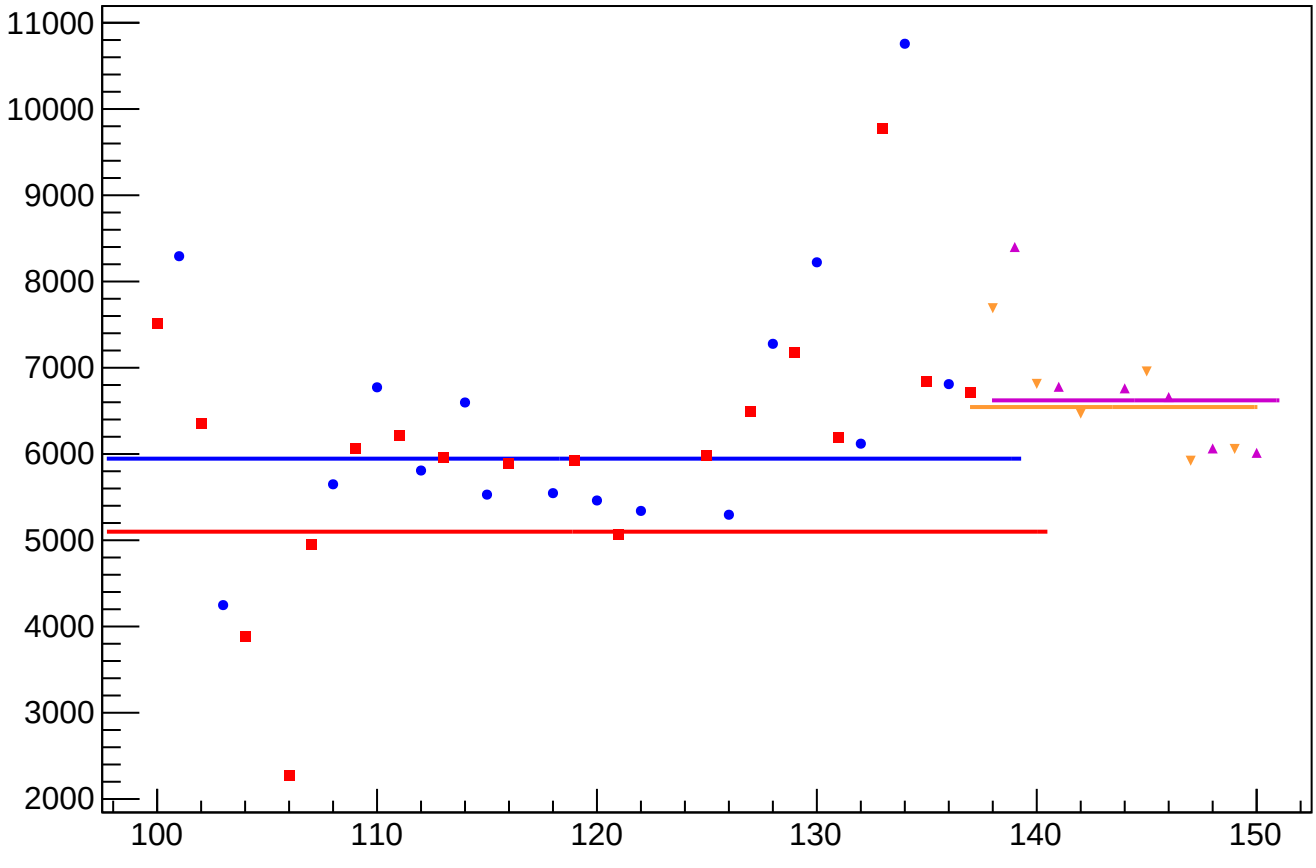
Left: -3301.002+/-2119.642 $\chi^2$/NDF: 8.2/11

Right: 1057.985+/-1504.928 $\chi^2$/NDF: 31.8/33

In: 523.628+/-1788.330 $\chi^2$/NDF:16.3/21

Out: -1227.295+/-1686.868 $\chi^2$/NDF:26.0/23

All: -402.910+/-1227.098 $\chi^2$/NDF: 42.8/45




Right In: 5946.080+/-1.604 $\chi^2$/NDF: 641131.4/15

Left Out: 6544.488+/-2.190 $\chi^2$/NDF:71293.9/5

Right Out: 5099.375+/-1.422 $\chi^2$/NDF: 1480367.2/17

Left In: 6622.019+/-2.056 $\chi^2$/NDF:109883.2/5

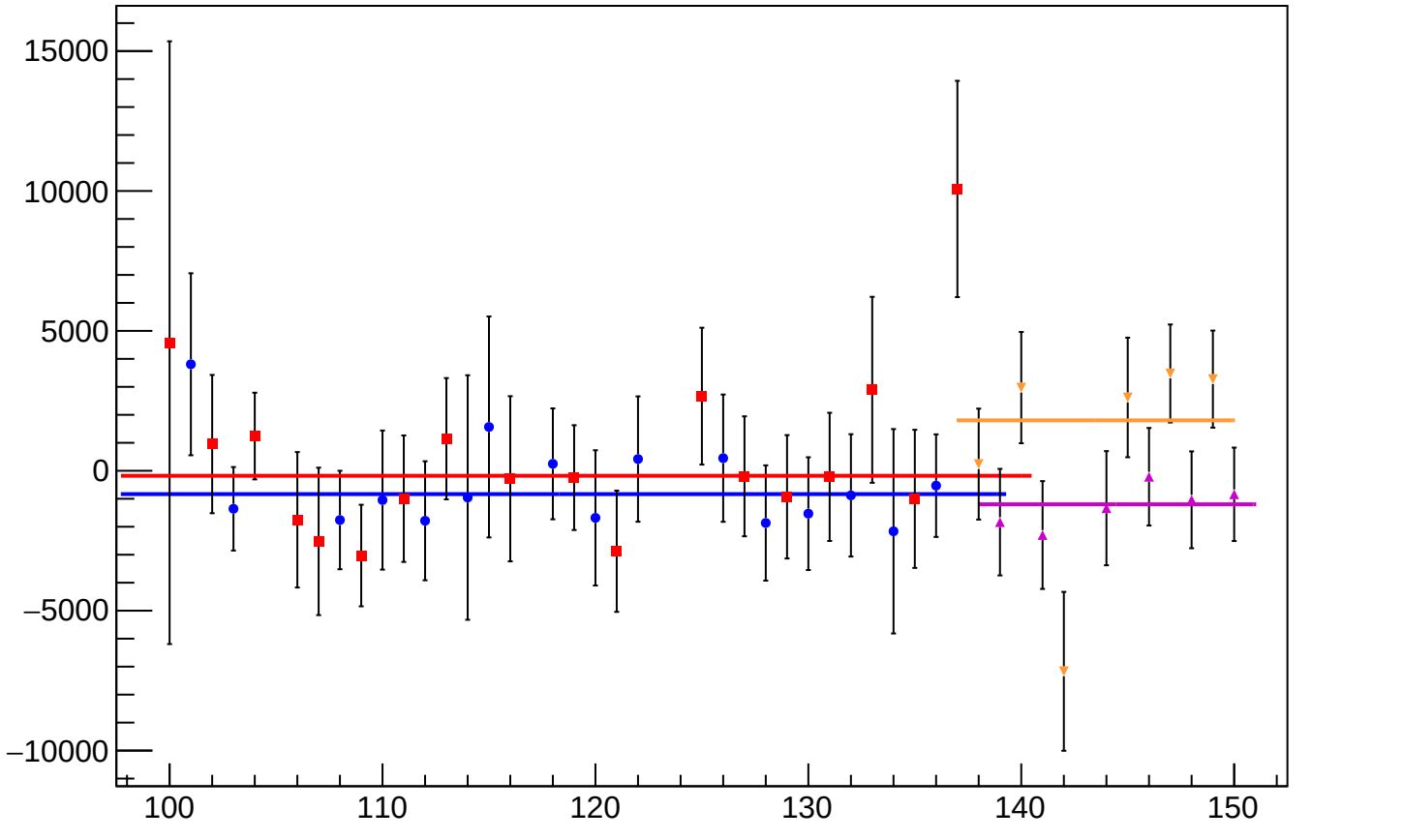
Left: 6585.690+/-1.499 $\chi^2$/NDF: 181843.4/11

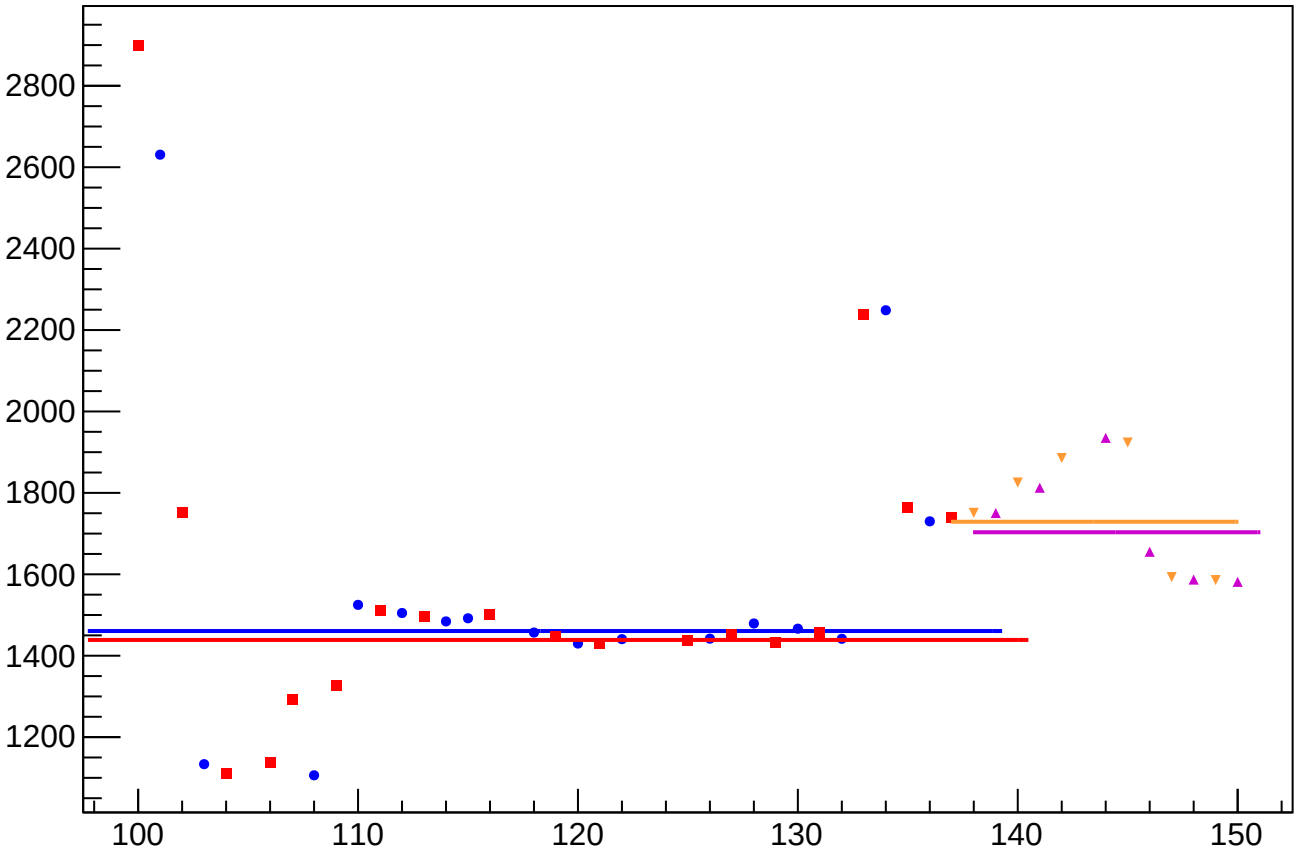
Right: 5472.167+/-1.064 $\chi^2$/NDF: 2277512.7/33

In: 6201.771+/-1.265 $\chi^2$/NDF:818212.6/21

Out: 5528.242+/-1.193 $\chi^2$/NDF:1857991.4/23

All: 5845.359+/-0.868 $\chi^2$/NDF: 2826325.5/45


cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -833.542+/-554.833 χ²/NDF: 4.6/15
Left Out: 1802.711+/-814.089 χ²/NDF:12.7/5
Right Out: -178.133+/-547.824 χ²/NDF: 16.5/17
Left In: -1197.855+/-743.869 χ²/NDF:0.8/5
Left: 167.461+/-549.145 χ²/NDF: 21.0/11
Right: -501.671+/-389.824 χ²/NDF: 21.8/33
In: -963.770+/-444.745 χ²/NDF:5.6/21
Out: 439.275+/-454.499 χ²/NDF:33.3/23
All: -277.464+/-317.875 χ²/NDF: 43.7/45




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1729.094+/-0.576 $\chi^2$/NDF:53309.5/5

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1703.291+/-0.526 $\chi^2$/NDF:54703.9/5

Left: 1715.032+/-0.388 $\chi^2$/NDF: 109108.4/11

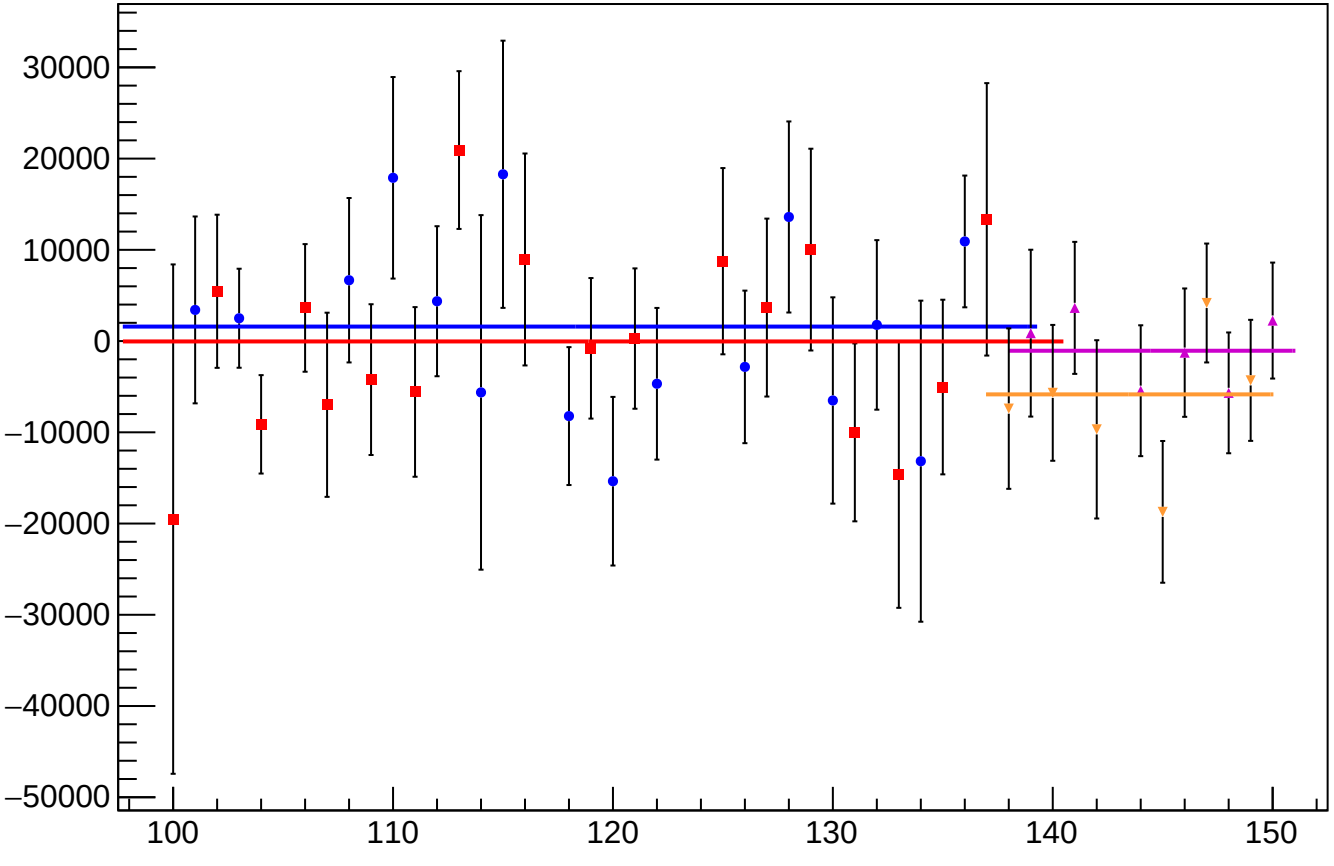
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

In: 1547.387+/-0.314 $\chi^2$/NDF:767166.1/21

Out: 1528.972+/-0.321 $\chi^2$/NDF:602022.4/23

All: 1538.365+/-0.225 $\chi^2$/NDF: 1370868.4/45

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 1588.655+/-2264.260 $\chi^2$/NDF: 14.2/15

Left Out: -5842.038+/-3096.492 $\chi^2$/NDF:5.4/5

Right Out: -40.643+/-2133.039 $\chi^2$/NDF: 16.5/17

Left In: -1060.506+/-2907.657 $\chi^2$/NDF:1.6/5

Left: -3301.038+/-2119.640 $\chi^2$/NDF: 8.2/11

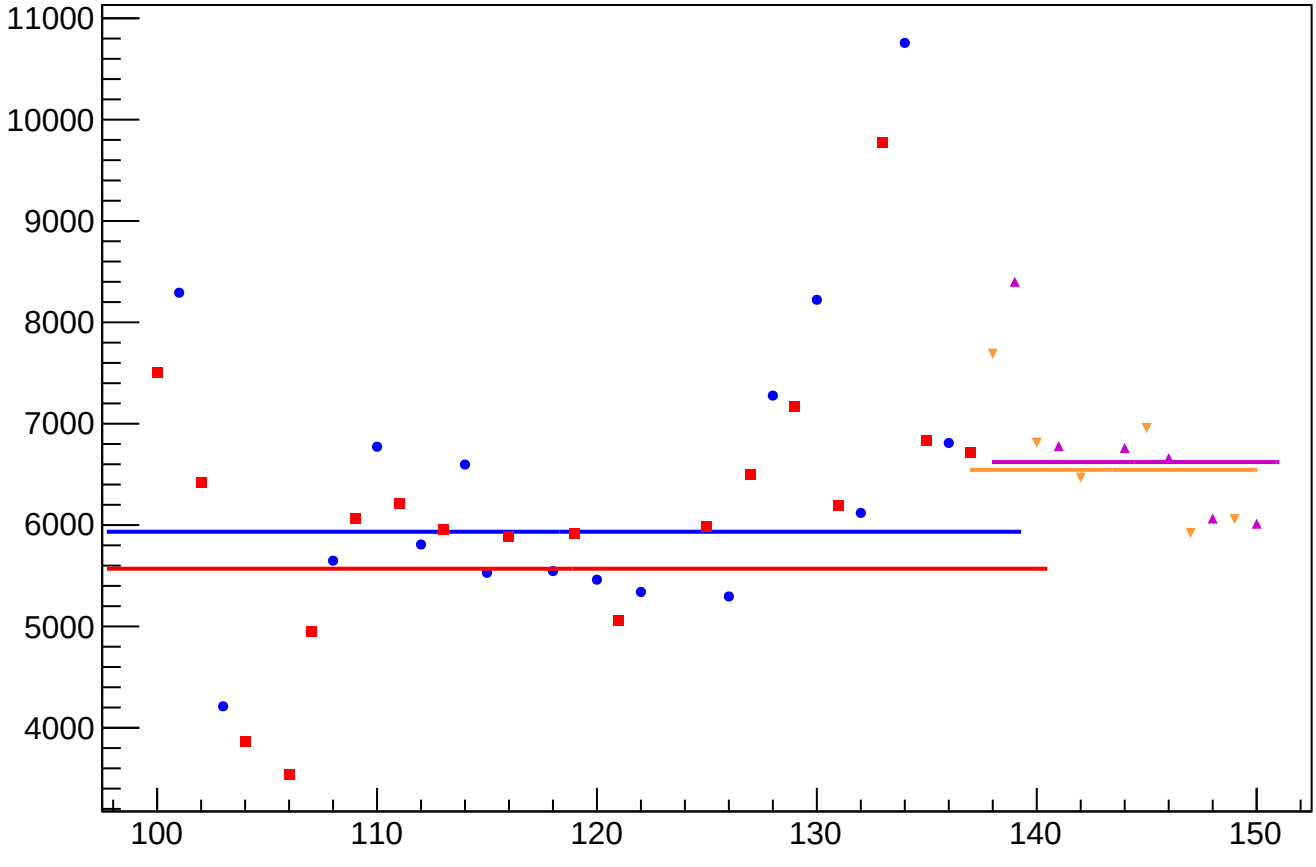
Right: 725.429+/-1552.604 $\chi^2$/NDF: 30.9/33

In: 588.613+/-1786.480 $\chi^2$/NDF:16.3/21

Out: -1907.617+/-1756.600 $\chi^2$/NDF:24.2/23

All: -680.552+/-1252.534 $\chi^2$/NDF: 41.5/45

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 5934.209+/-1.601 $\chi^2$/NDF: 653082.9/15

Left Out: 6544.481+/-2.190 $\chi^2$/NDF:71293.2/5

Right Out: 5569.606+/-1.508 $\chi^2$/NDF: 724048.8/17

Left In: 6622.013+/-2.056 $\chi^2$/NDF:109883.3/5

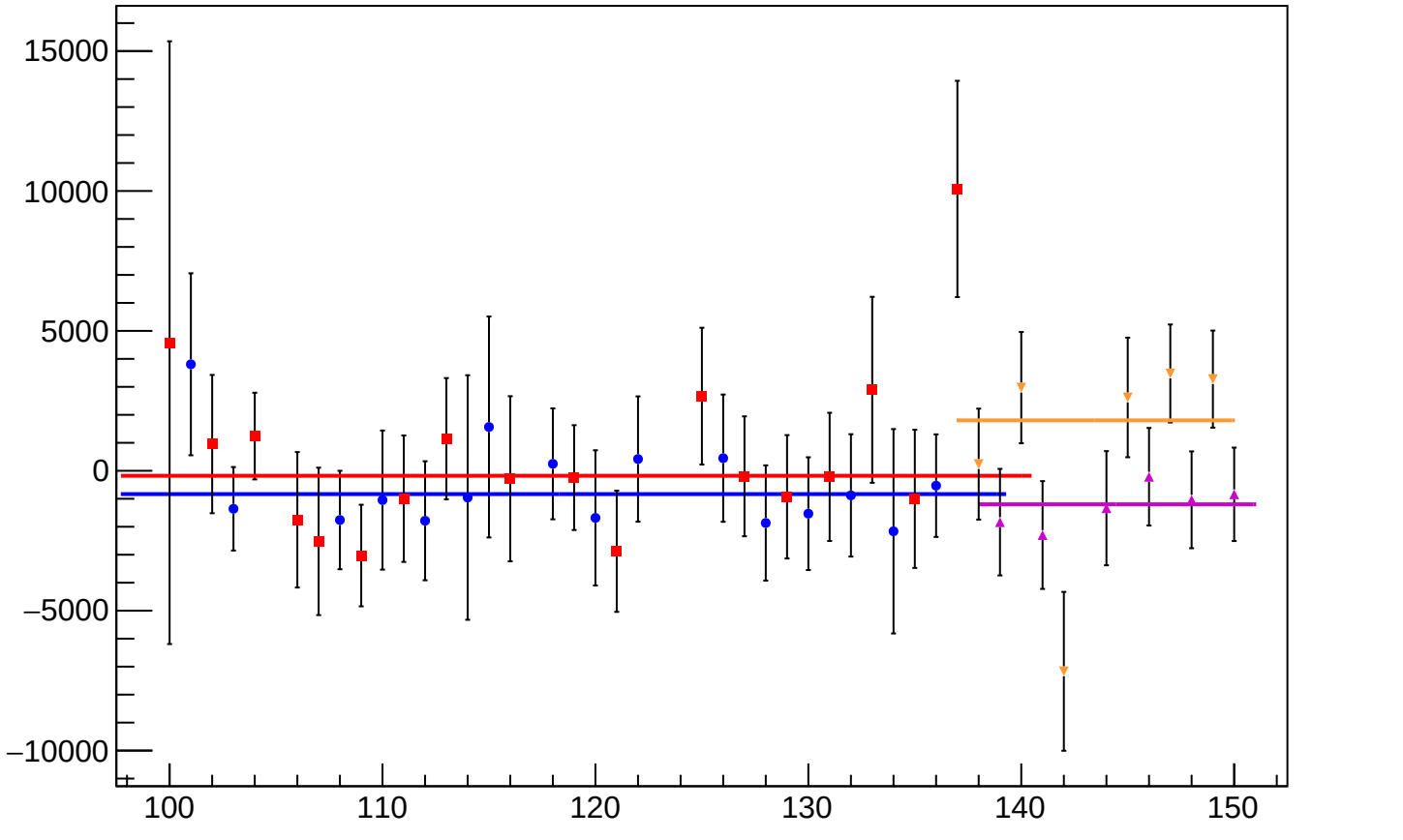
Left: 6585.683+/-1.499 $\chi^2$/NDF: 181842.8/11

Right: 5741.037+/-1.098 $\chi^2$/NDF: 1404606.9/33

In: 6193.851+/-1.263 $\chi^2$/NDF:832631.5/21

Out: 5883.335+/-1.242 $\chi^2$/NDF:929784.3/23

All: 6035.974+/-0.886 $\chi^2$/NDF: 1793136.7/45




Right In: -833.542+/-554.833 $\chi^2$/NDF: 4.6/15

Left Out: 1802.711+/-814.089 $\chi^2$/NDF:12.7/5

Right Out: -178.133+/-547.824 $\chi^2$/NDF: 16.5/17

Left In: -1197.855+/-743.869 $\chi^2$/NDF:0.8/5

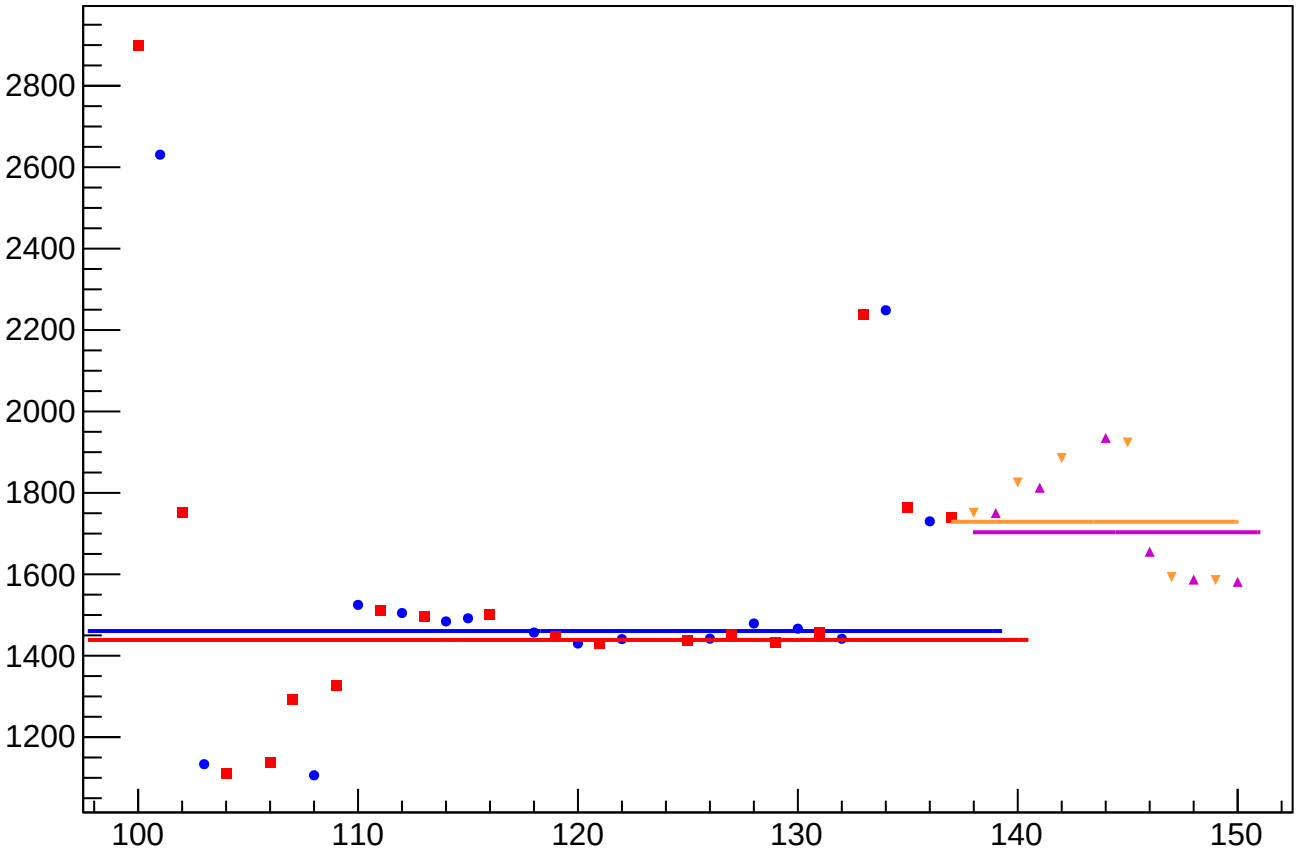
Left: 167.461+/-549.145 $\chi^2$/NDF: 21.0/11

Right: -501.671+/-389.824 $\chi^2$/NDF: 21.8/33

In: -963.770+/-444.745 $\chi^2$/NDF:5.6/21

Out: 439.275+/-454.499 $\chi^2$/NDF:33.3/23

All: -277.464+/-317.875 $\chi^2$/NDF: 43.7/45




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1729.094+/-0.576 $\chi^2$/NDF:53309.5/5

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1703.291+/-0.526 $\chi^2$/NDF:54703.9/5

Left: 1715.032+/-0.388 $\chi^2$/NDF: 109108.4/11

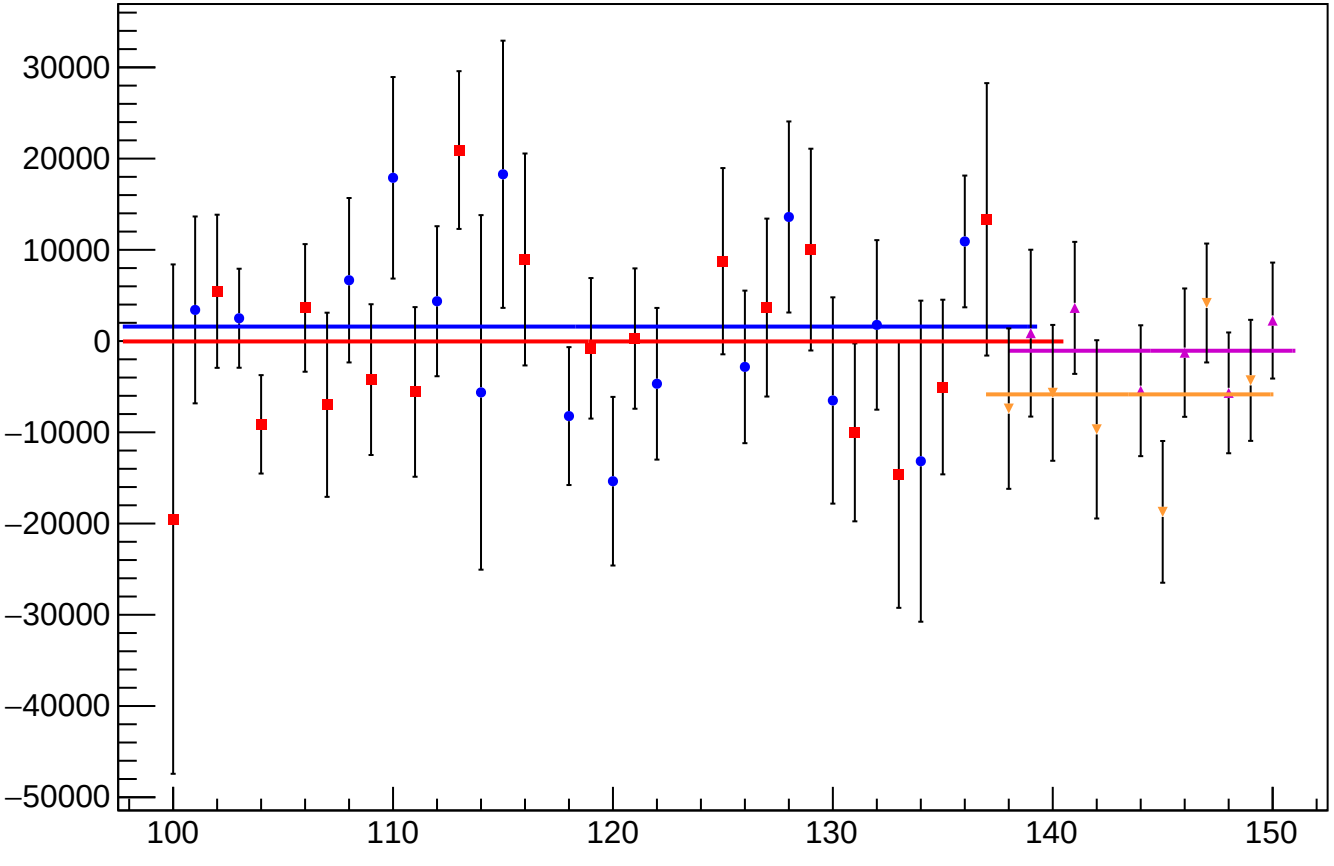
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

In: 1547.387+/-0.314 $\chi^2$/NDF:767166.1/21

Out: 1528.972+/-0.321 $\chi^2$/NDF:602022.4/23

All: 1538.365+/-0.225 $\chi^2$/NDF: 1370868.4/45

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1588.655+/-2264.260 $\chi^2$/NDF: 14.2/15

Left Out: -5842.038+/-3096.492 $\chi^2$/NDF:5.4/5

Right Out: -40.643+/-2133.039 $\chi^2$/NDF: 16.5/17

Left In: -1060.506+/-2907.657 $\chi^2$/NDF:1.6/5

Left: -3301.038+/-2119.640 $\chi^2$/NDF: 8.2/11

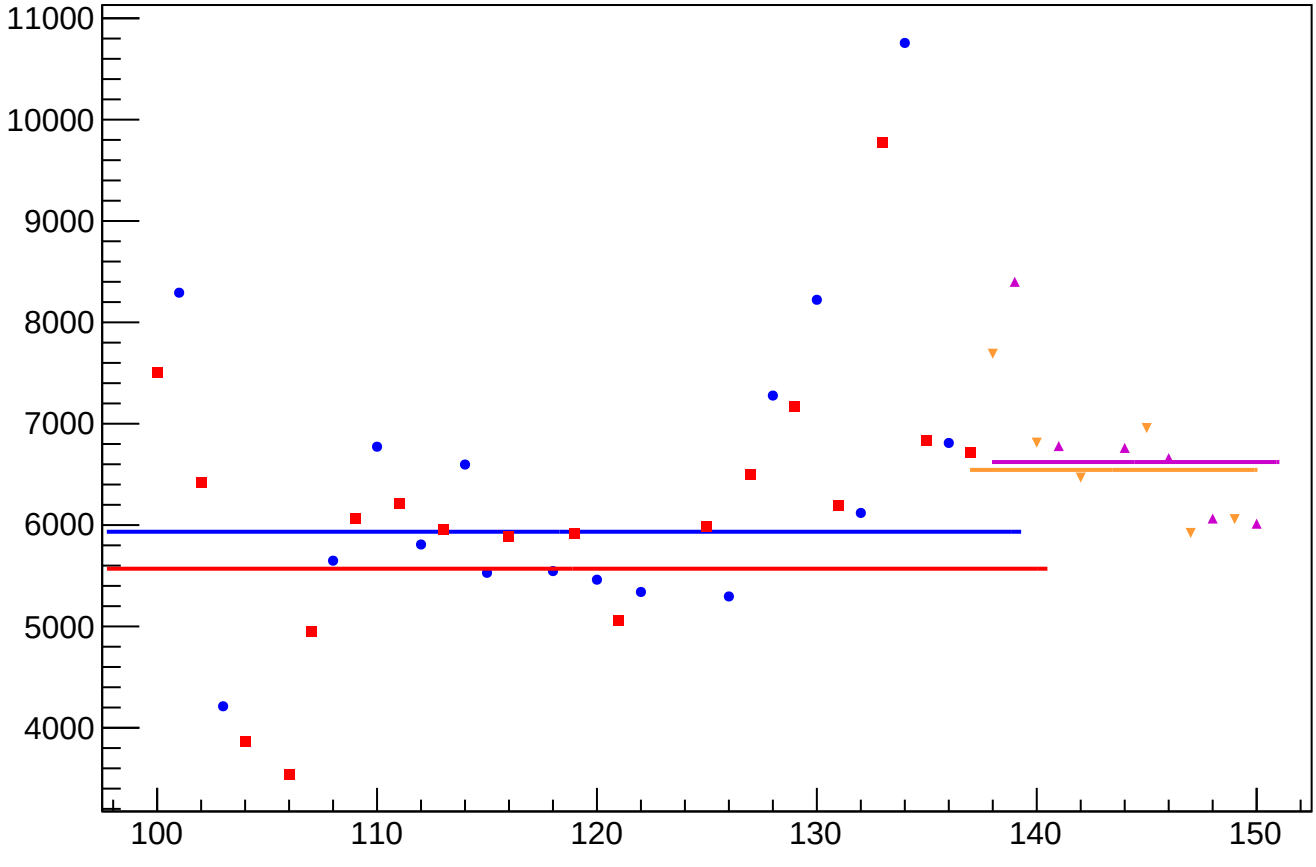
Right: 725.429+/-1552.604 $\chi^2$/NDF: 30.9/33

In: 588.613+/-1786.480 $\chi^2$/NDF:16.3/21

Out: -1907.617+/-1756.600 $\chi^2$/NDF:24.2/23

All: -680.552+/-1252.534 $\chi^2$/NDF: 41.5/45

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 5934.209+/-1.601 $\chi^2$/NDF: 653082.9/15

Left Out: 6544.481+/-2.190 $\chi^2$/NDF:71293.2/5

Right Out: 5569.606+/-1.508 $\chi^2$/NDF: 724048.8/17

Left In: 6622.013+/-2.056 $\chi^2$/NDF:109883.3/5

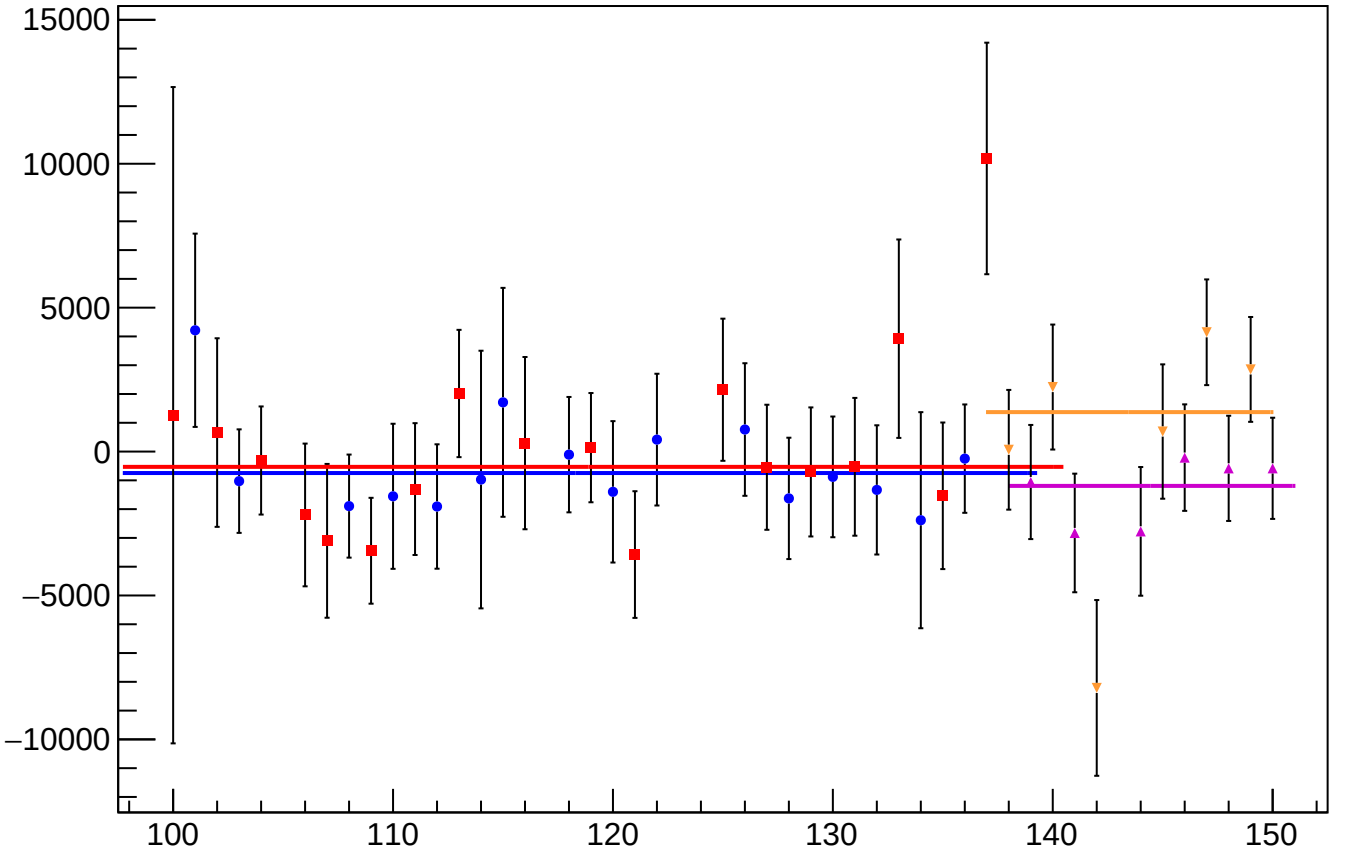
Left: 6585.683+/-1.499 $\chi^2$/NDF: 181842.8/11

Right: 5741.037+/-1.098 $\chi^2$/NDF: 1404606.9/33

In: 6193.851+/-1.263 $\chi^2$/NDF:832631.5/21

Out: 5883.335+/-1.242 $\chi^2$/NDF:929784.3/23

All: 6035.974+/-0.886 $\chi^2$/NDF: 1793136.7/45




Right In: -745.914+/-578.071 $\chi^2$/NDF: 4.8/15

Left Out: 1370.821+/-866.461 $\chi^2$/NDF:13.4/5

Right Out: -531.292+/-575.115 $\chi^2$/NDF: 17.7/17

Left In: -1192.576+/-789.327 $\chi^2$/NDF:1.6/5

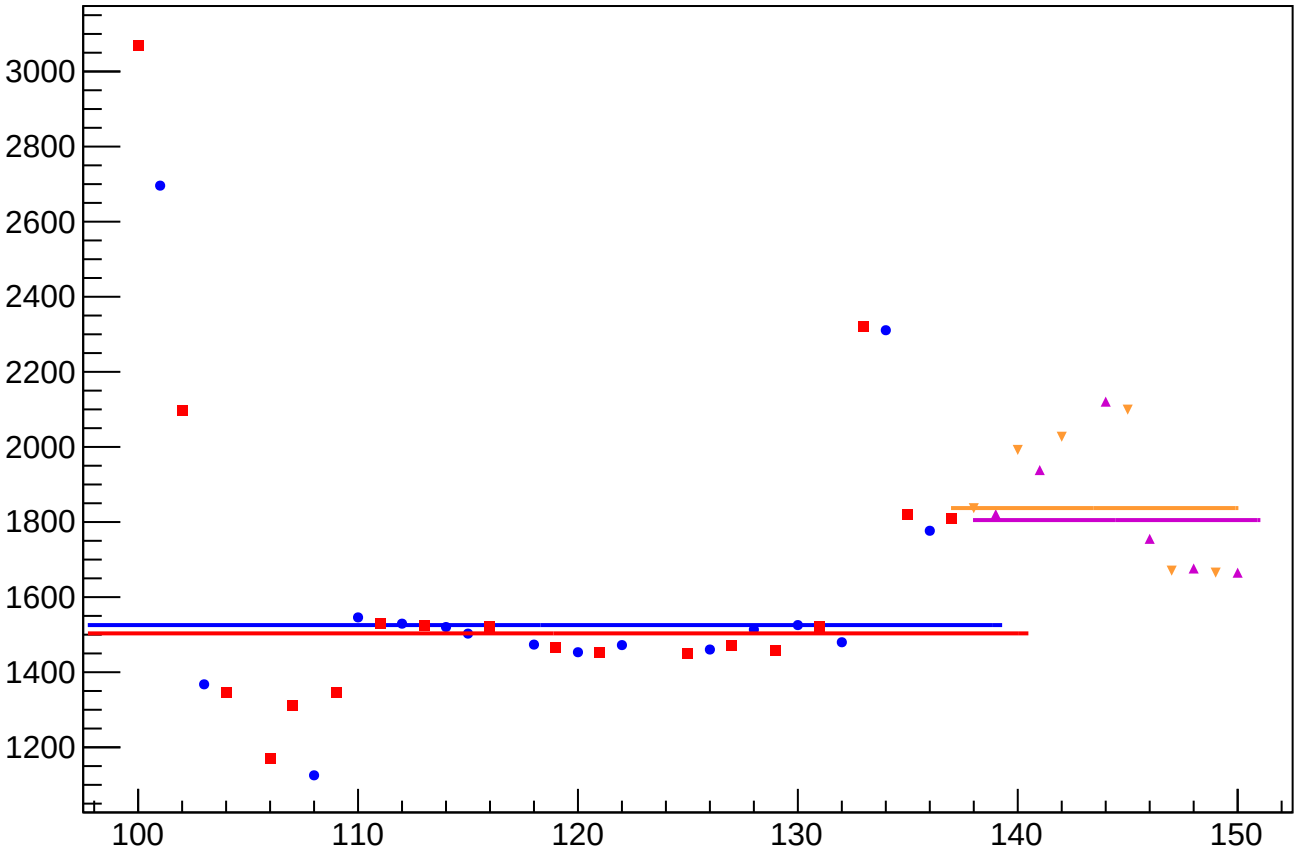
Left: -30.034+/-583.506 $\chi^2$/NDF: 19.9/11

Right: -638.053+/-407.709 $\chi^2$/NDF: 22.6/33

In: -901.847+/-466.376 $\chi^2$/NDF:6.6/21

Out: 50.428+/-479.168 $\chi^2$/NDF:34.5/23

All: -438.591+/-334.208 $\chi^2$/NDF: 43.2/45




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488328.2/15

Left Out: 1837.185+/-0.613 $\chi^2$/NDF:77425.2/5

Right Out: 1503.434+/-0.407 $\chi^2$/NDF: 338507.3/17

Left In: 1805.207+/-0.558 $\chi^2$/NDF:72426.1/5

Left: 1819.710+/-0.413 $\chi^2$/NDF: 151340.1/11

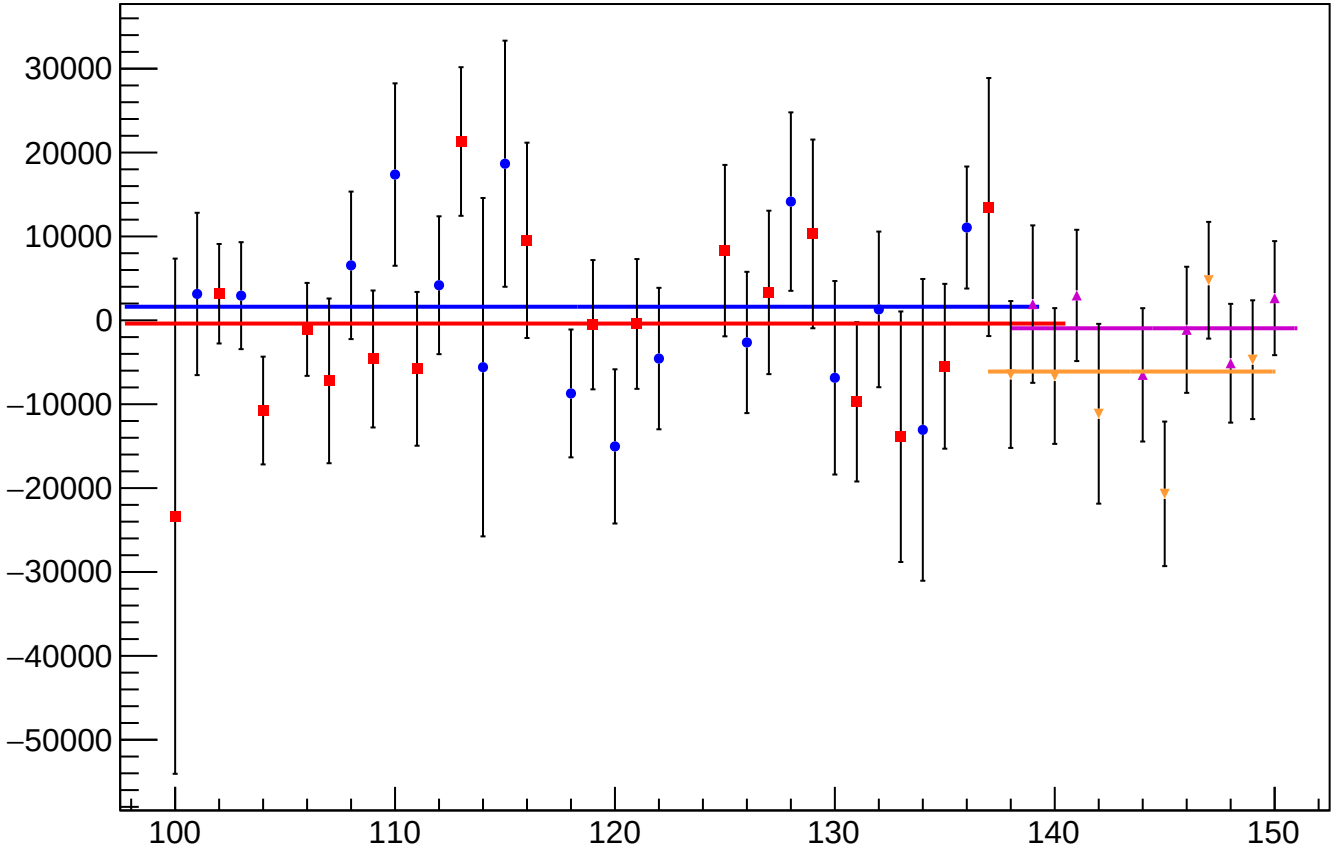
Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1623.171+/-0.330 $\chi^2$/NDF:724180.1/21

Out: 1605.464+/-0.339 $\chi^2$/NDF:621958.1/23

All: 1614.555+/-0.236 $\chi^2$/NDF: 1347541.0/45

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 1620.058+/-2320.032 $\chi^2$/NDF: 14.3/15

Left Out: -6104.845+/-3313.275 $\chi^2$/NDF:5.6/5

Right Out: -385.942+/-2060.867 $\chi^2$/NDF: 16.0/17

Left In: -946.557+/-3118.799 $\chi^2$/NDF:1.5/5

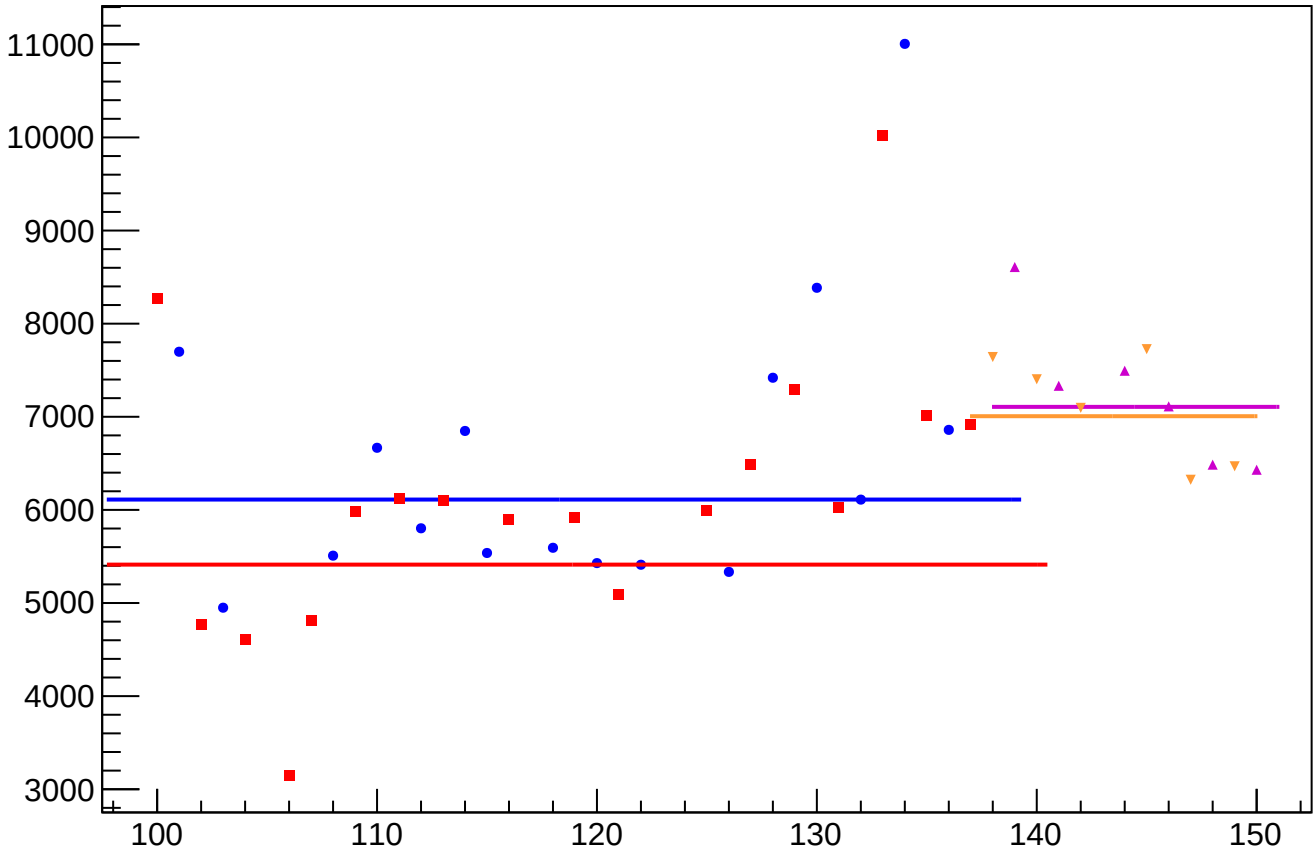
Left: -3369.881+/-2270.965 $\chi^2$/NDF: 8.3/11

Right: 498.801+/-1540.768 $\chi^2$/NDF: 30.7/33

In: 705.734+/-1861.474 $\chi^2$/NDF:16.1/21

Out: -1981.294+/-1749.965 $\chi^2$/NDF:23.7/23

All: -720.667+/-1275.012 $\chi^2$/NDF: 41.0/45




Right In: 6111.037+/-1.641 $\chi^2$/NDF: 471661.4/15

Left Out: 7006.172+/-2.343 $\chi^2$/NDF:60248.1/5

Right Out: 5412.276+/-1.457 $\chi^2$/NDF: 821530.3/17

Left In: 7106.497+/-2.205 $\chi^2$/NDF:92763.1/5

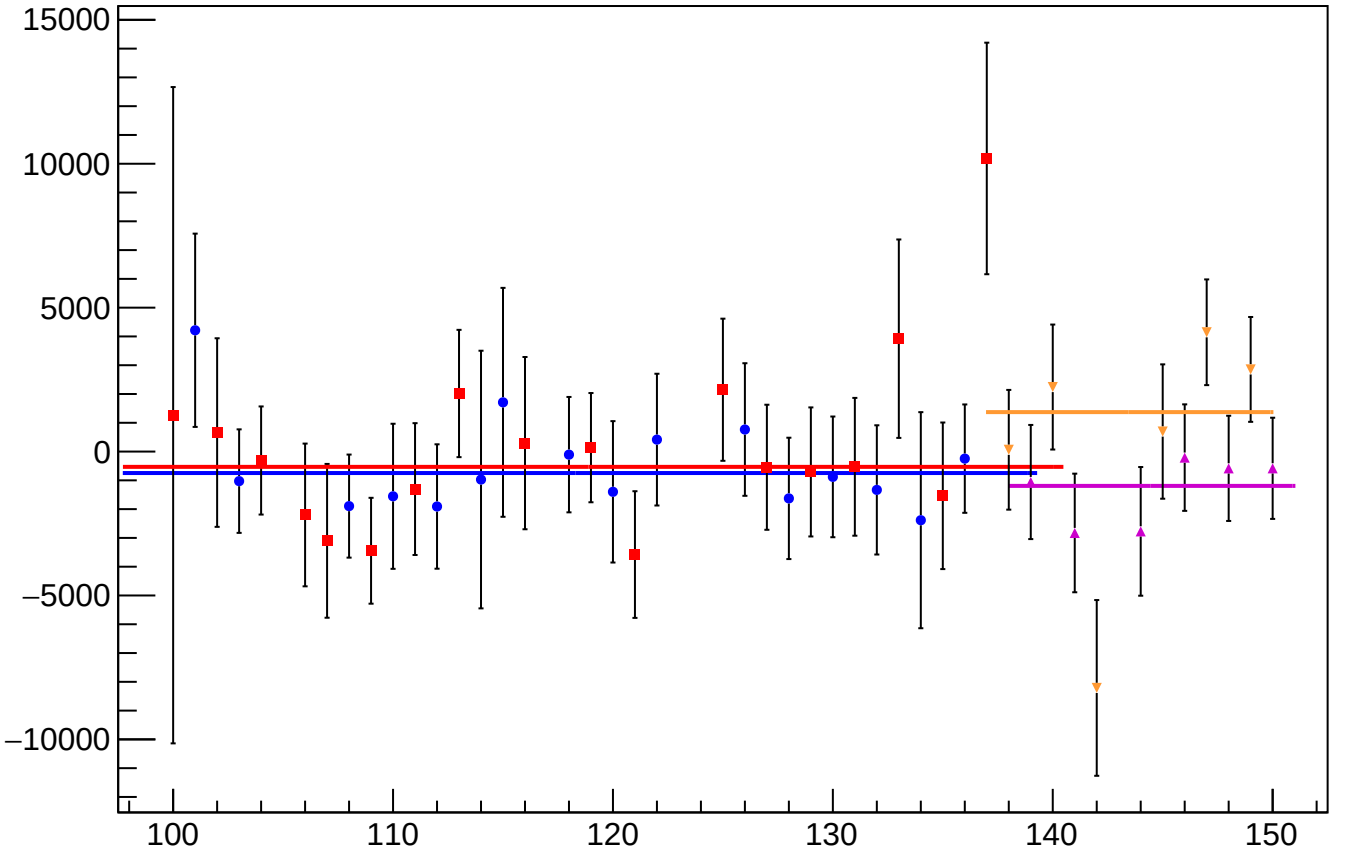
Left: 7059.365+/-1.606 $\chi^2$/NDF: 153983.4/11

Right: 5720.463+/-1.089 $\chi^2$/NDF: 1394599.9/33

In: 6465.657+/-1.316 $\chi^2$/NDF:695593.0/21

Out: 5856.911+/-1.237 $\chi^2$/NDF:1215507.1/23

All: 6142.506+/-0.902 $\chi^2$/NDF: 2024642.2/45




Right In: -745.918+/-578.071 $\chi^2$/NDF: 4.8/15

Left Out: 1370.808+/-866.462 $\chi^2$/NDF:13.4/5

Right Out: -531.302+/-575.115 $\chi^2$/NDF: 17.7/17

Left In: -1192.573+/-789.328 $\chi^2$/NDF:1.6/5

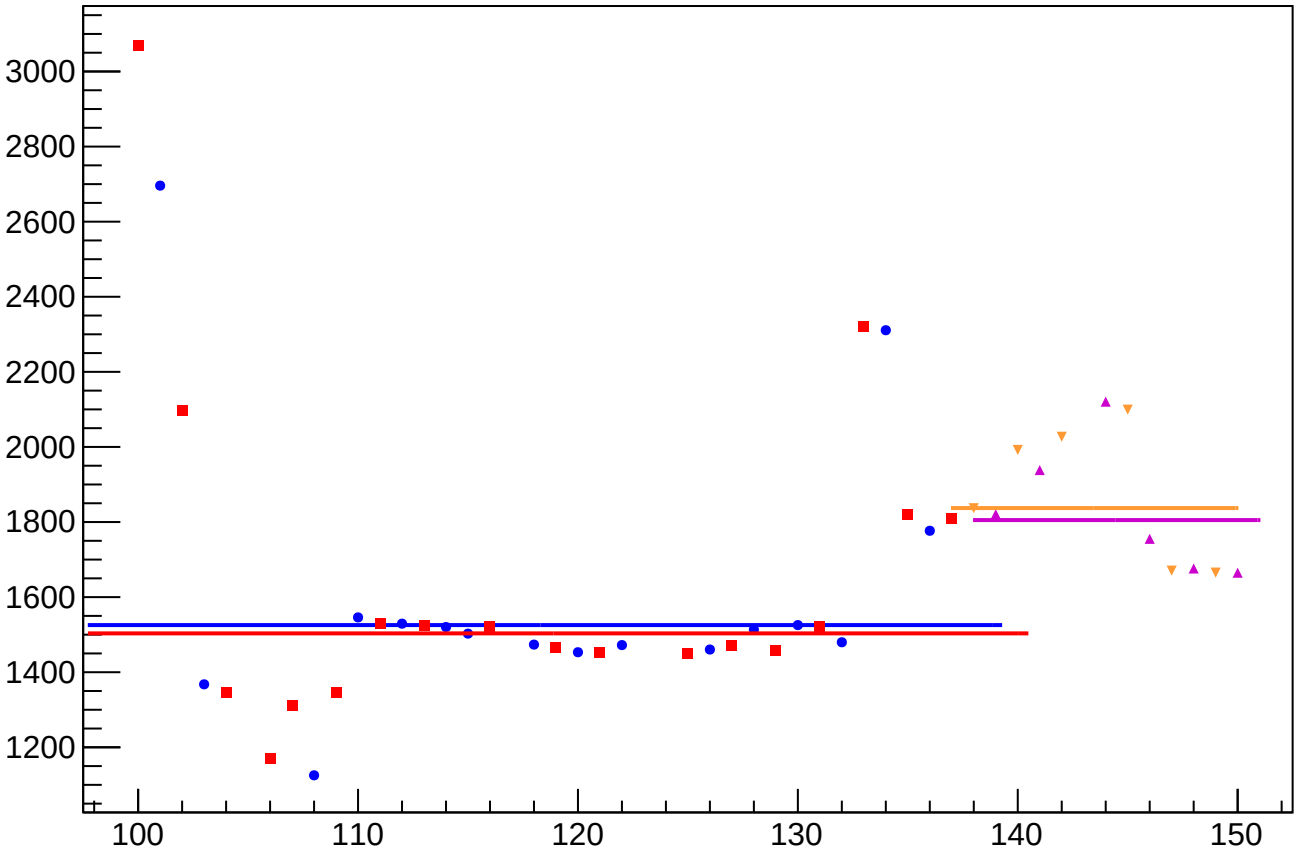
Left: -30.038+/-583.507 $\chi^2$/NDF: 19.9/11

Right: -638.060+/-407.709 $\chi^2$/NDF: 22.6/33

In: -901.848+/-466.376 $\chi^2$/NDF:6.6/21

Out: 50.416+/-479.168 $\chi^2$/NDF:34.5/23

All: -438.597+/-334.209 $\chi^2$/NDF: 43.2/45




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488327.8/15

Left Out: 1837.187+/-0.613 $\chi^2$/NDF:77426.1/5

Right Out: 1503.435+/-0.407 $\chi^2$/NDF: 338507.7/17

Left In: 1805.209+/-0.558 $\chi^2$/NDF:72426.3/5

Left: 1819.712+/-0.413 $\chi^2$/NDF: 151341.2/11

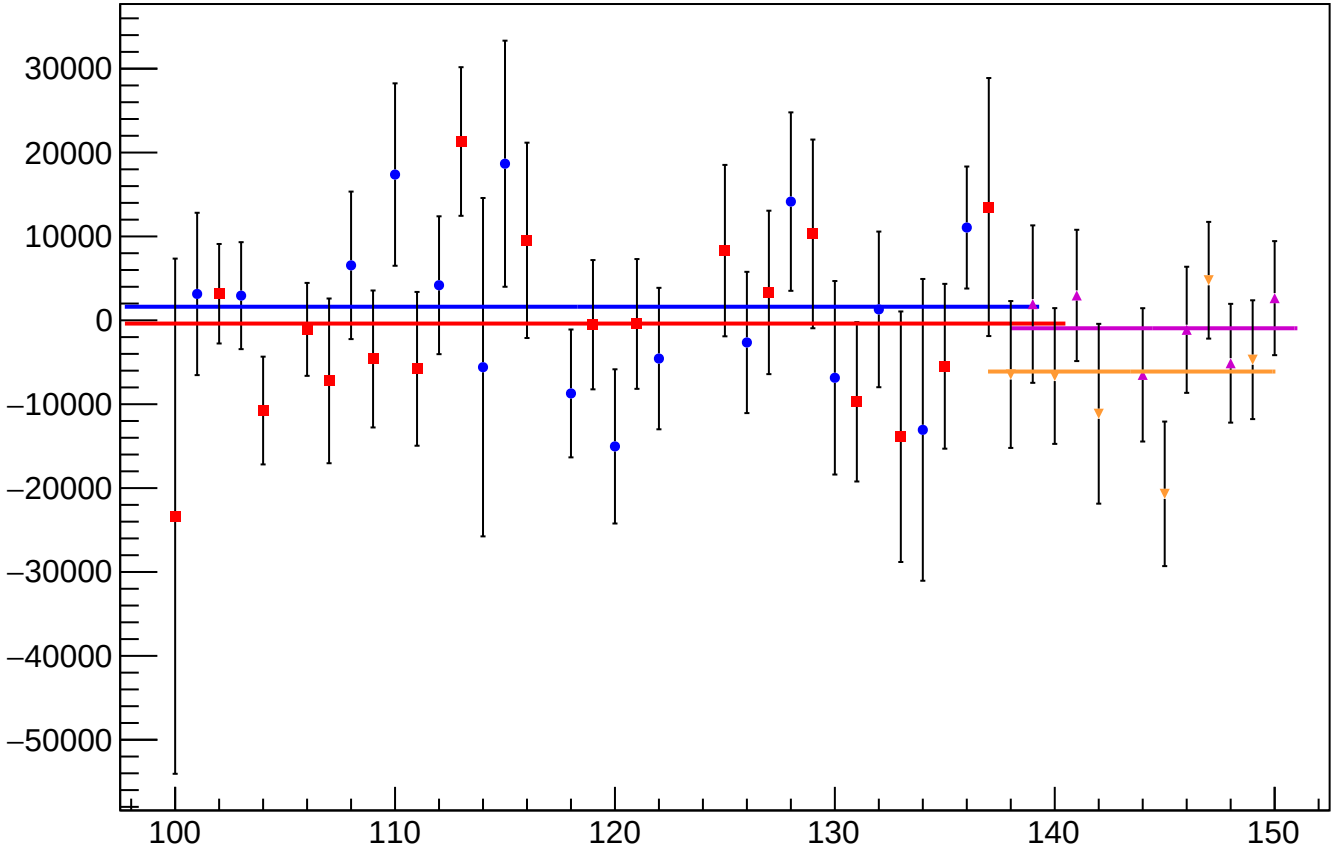
Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1623.171+/-0.330 $\chi^2$/NDF:724182.3/21

Out: 1605.464+/-0.339 $\chi^2$/NDF:621961.1/23

All: 1614.556+/-0.236 $\chi^2$/NDF: 1347546.2/45

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1620.038+/-2320.027 $\chi^2$/NDF: 14.3/15

Left Out: -6104.855+/-3313.280 $\chi^2$/NDF:5.6/5

Right Out: -385.948+/-2060.863 $\chi^2$/NDF: 16.0/17

Left In: -946.553+/-3118.803 $\chi^2$/NDF:1.5/5

Left: -3369.883+/-2270.968 $\chi^2$/NDF: 8.3/11

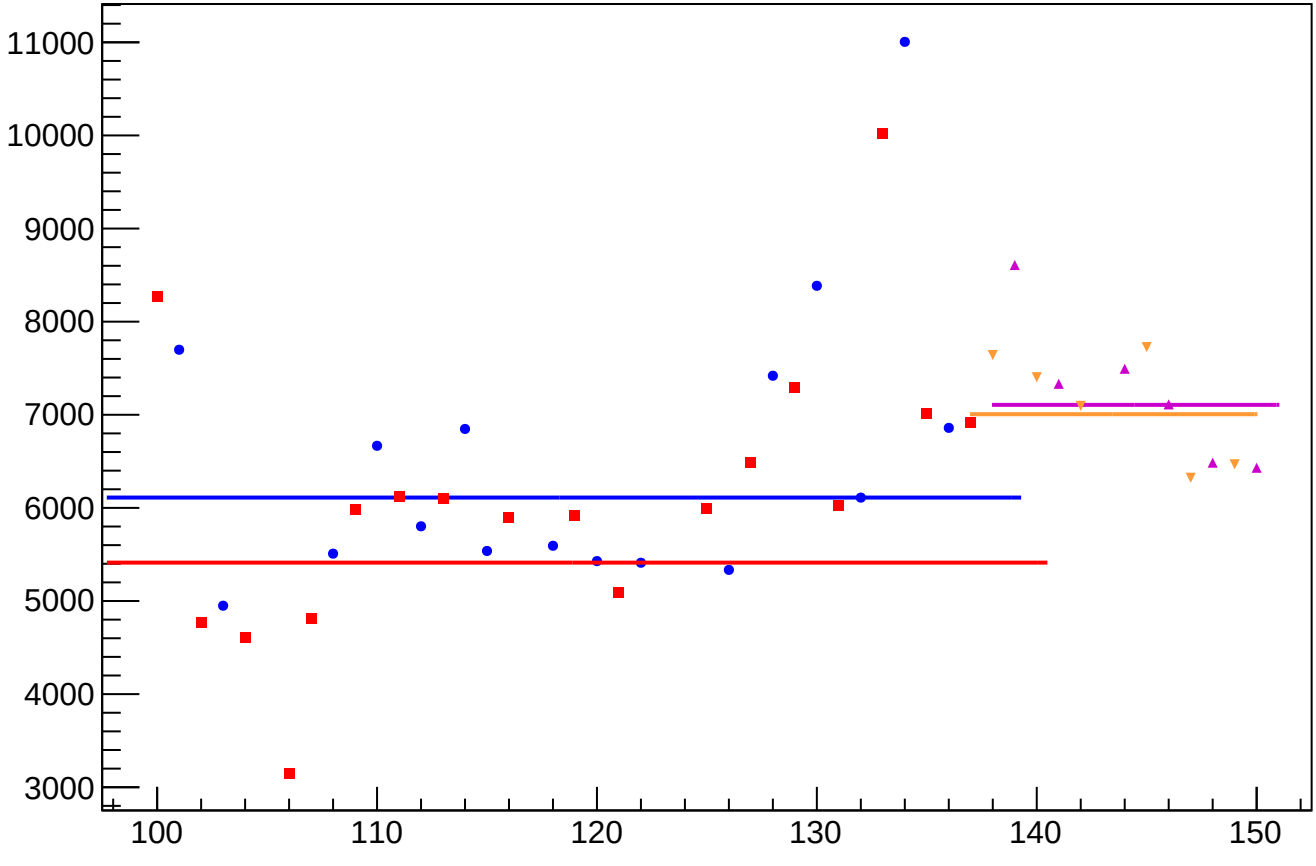
Right: 498.789+/-1540.764 $\chi^2$/NDF: 30.7/33

In: 705.727+/-1861.472 $\chi^2$/NDF:16.1/21

Out: -1981.293+/-1749.963 $\chi^2$/NDF:23.7/23

All: -720.670+/-1275.010 $\chi^2$/NDF: 41.0/45

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 6111.023+/-1.641 $\chi^2$/NDF: 471663.6/15

Left Out: 7006.181+/-2.343 $\chi^2$/NDF:60249.0/5

Right Out: 5412.265+/-1.457 $\chi^2$/NDF: 821530.5/17

Left In: 7106.506+/-2.205 $\chi^2$/NDF:92764.1/5

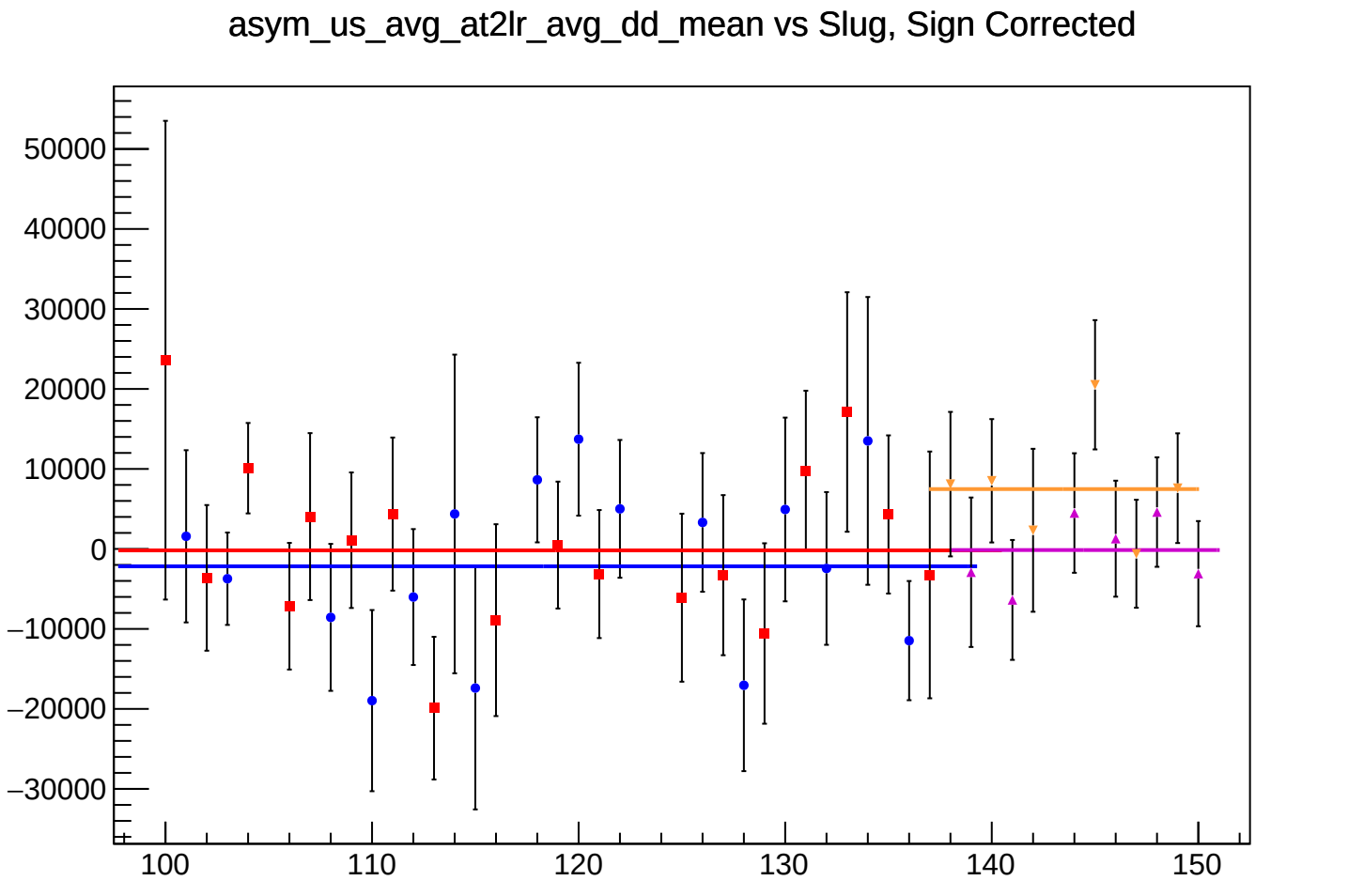
Left: 7059.374+/-1.606 $\chi^2$/NDF: 153985.3/11

Right: 5720.451+/-1.089 $\chi^2$/NDF: 1394602.1/33

In: 6465.649+/-1.316 $\chi^2$/NDF:695602.0/21

Out: 5856.903+/-1.237 $\chi^2$/NDF:1215516.5/23

All: 6142.498+/-0.902 $\chi^2$/NDF: 2024661.1/45




Right In: -2174.048+/-2347.664 $\chi^2$/NDF: 14.6/15

Left Out: 7480.245+/-3206.862 $\chi^2$/NDF:4.3/5

Right Out: -183.559+/-2228.883 $\chi^2$/NDF: 14.7/17

Left In: -139.807+/-3005.841 $\chi^2$/NDF:1.9/5

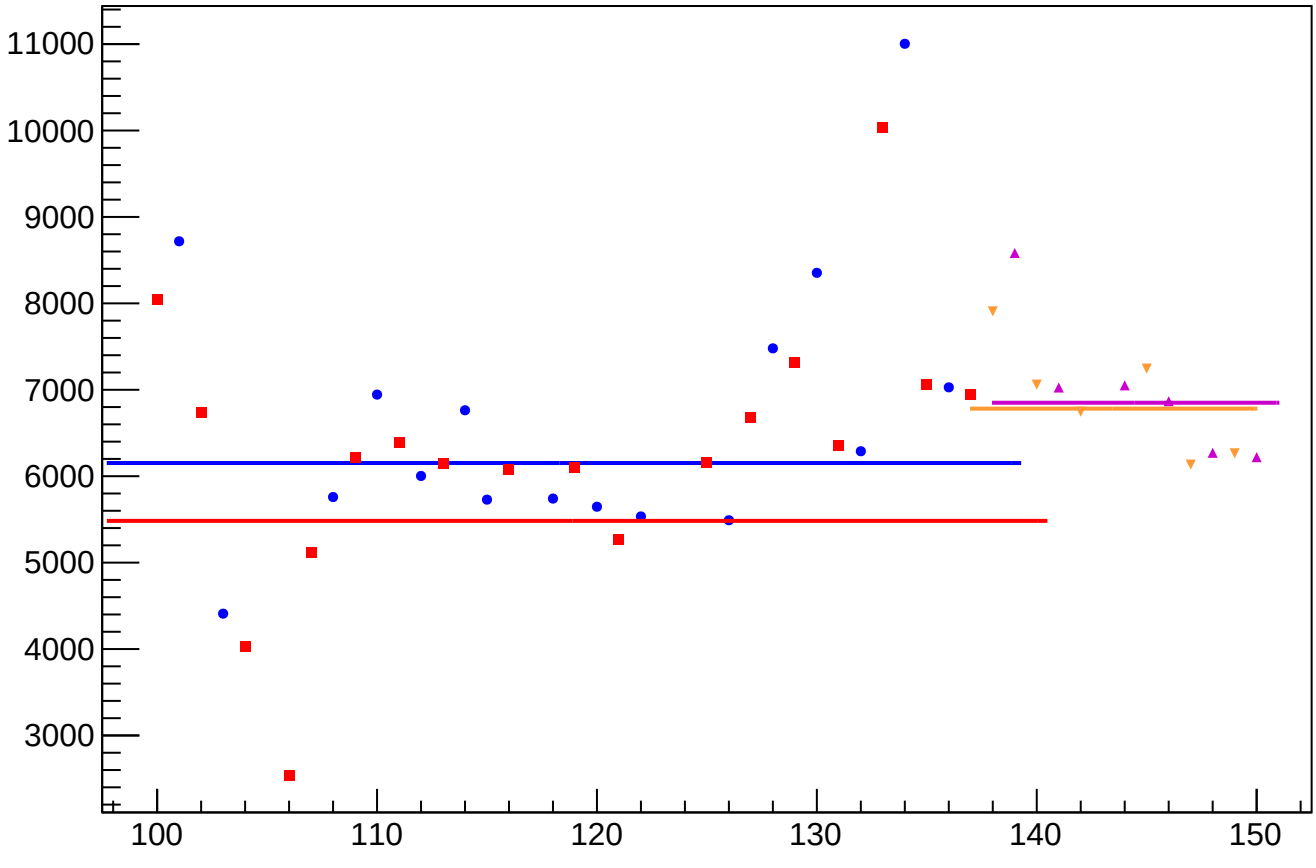
Left: 3423.919+/-2193.075 $\chi^2$/NDF: 9.2/11

Right: -1127.176+/-1616.419 $\chi^2$/NDF: 29.6/33

In: -1403.299+/-1850.210 $\chi^2$/NDF:16.8/21

Out: 2312.734+/-1830.230 $\chi^2$/NDF:22.8/23

All: 474.889+/-1301.175 $\chi^2$/NDF: 41.6/45




Right In: 6152.690+/-1.660 $\chi^2$/NDF: 624026.7/15

Left Out: 6781.916+/-2.268 $\chi^2$/NDF:70040.3/5

Right Out: 5483.337+/-1.519 $\chi^2$/NDF: 1148712.9/17

Left In: 6850.091+/-2.125 $\chi^2$/NDF:104017.1/5

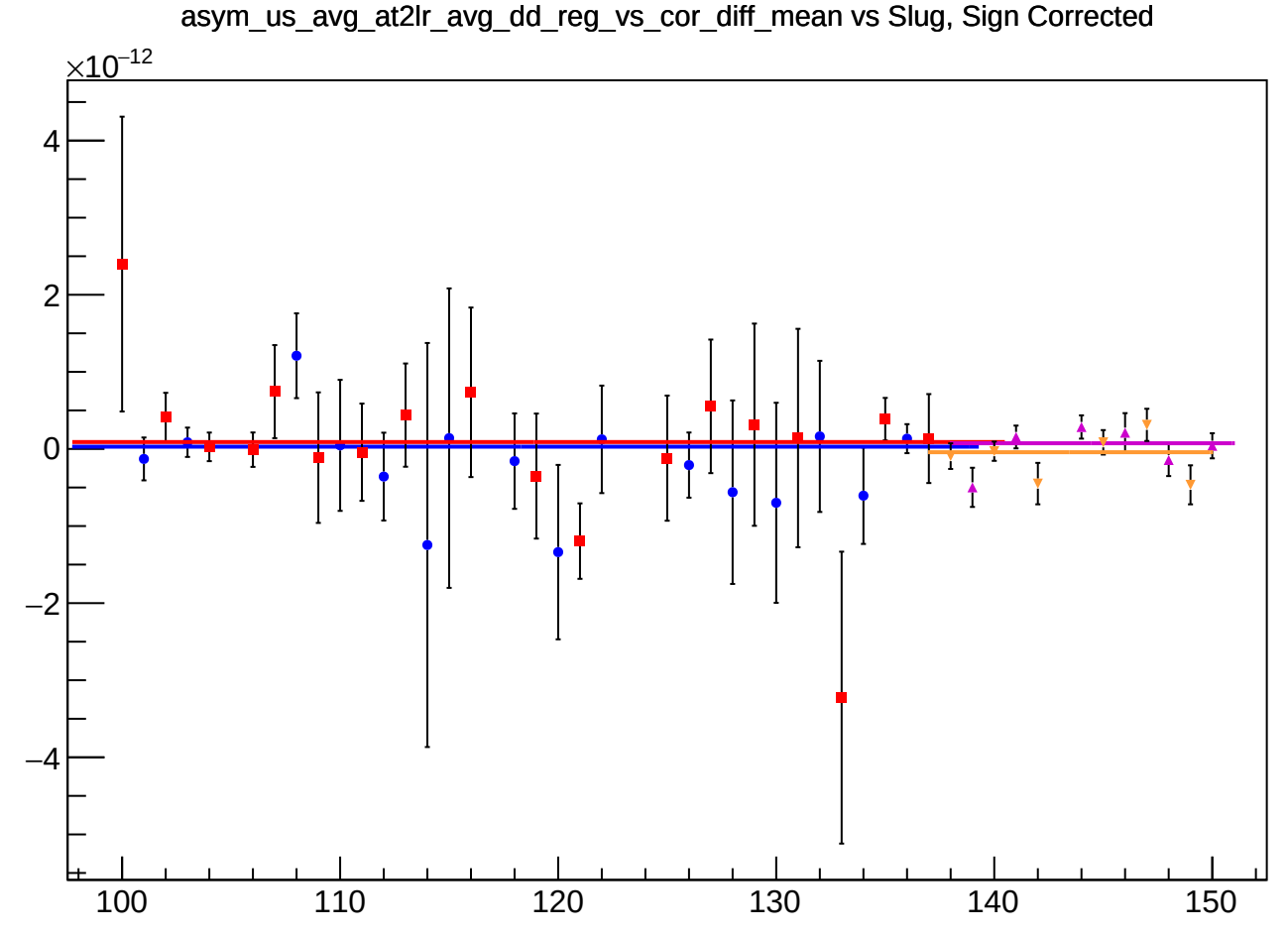
Left: 6818.207+/-1.551 $\chi^2$/NDF: 174538.6/11

Right: 5788.476+/-1.121 $\chi^2$/NDF: 1861205.2/33

In: 6416.924+/-1.308 $\chi^2$/NDF:794914.4/21

Out: 5885.727+/-1.262 $\chi^2$/NDF:1445080.7/23

All: 6141.820+/-0.908 $\chi^2$/NDF: 2325372.8/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.7/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:8.7/5

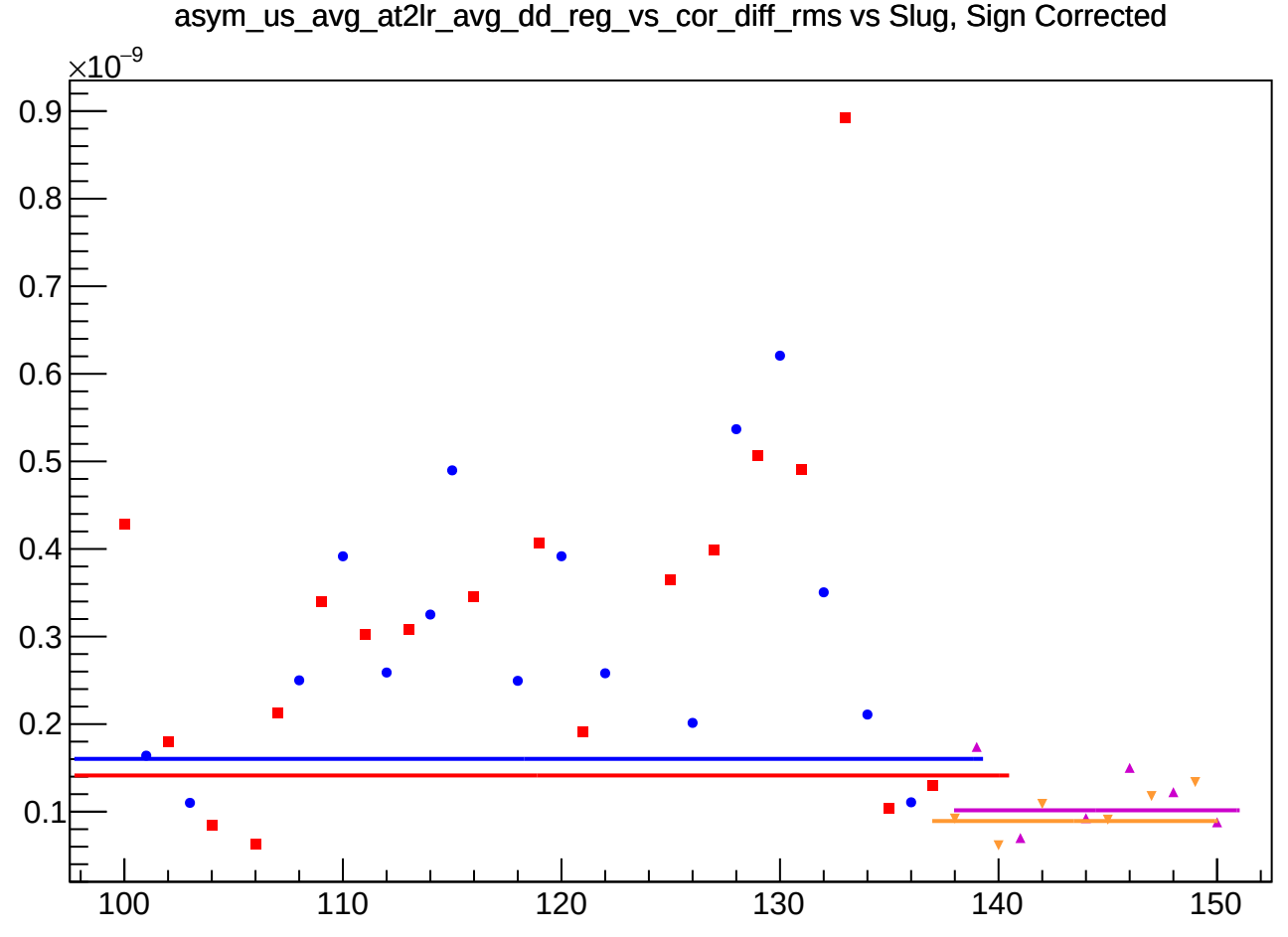
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.8/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:18.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:26.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.2/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1329606.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:209213.7/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2165946.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:368525.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 605729.7/11

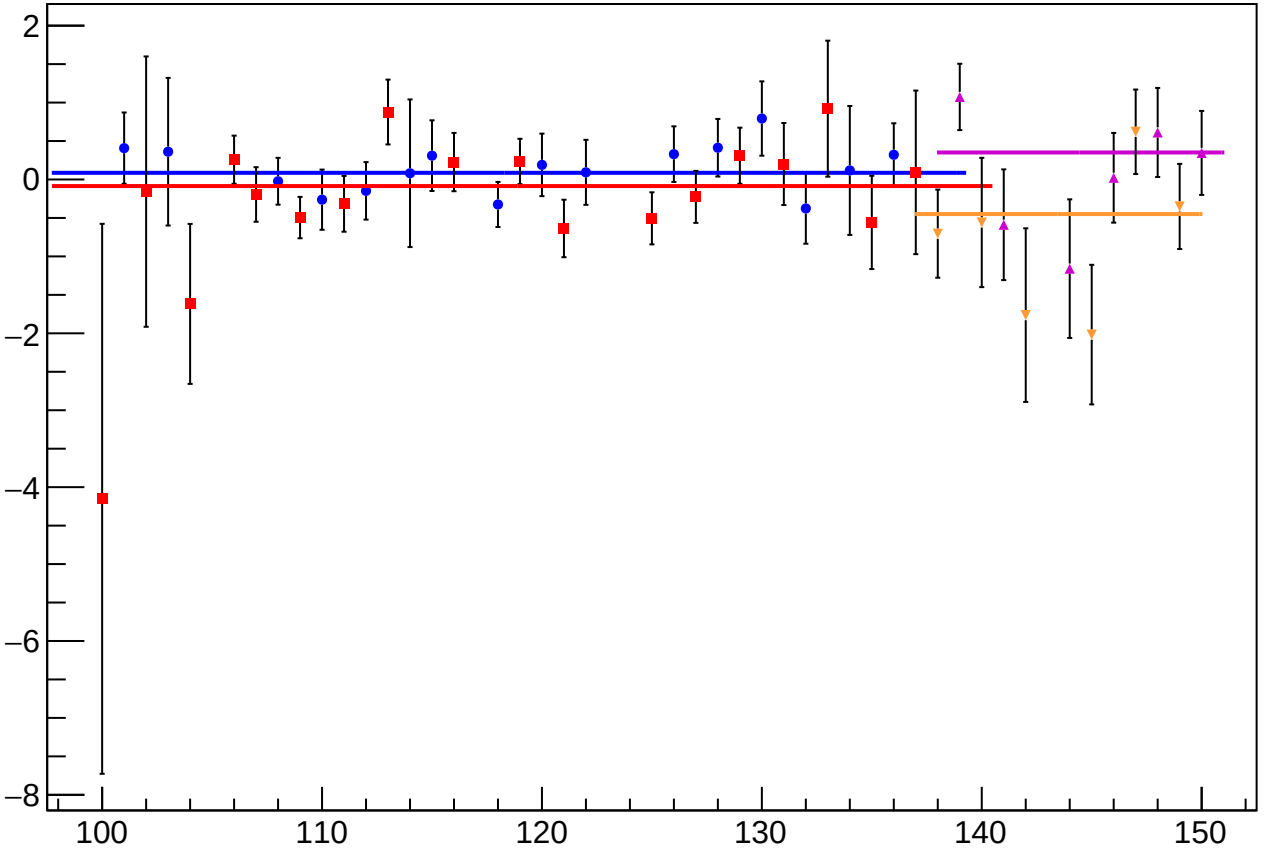
Right: 0.000+/-0.000 $\chi^2$/NDF: 3529311.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:2122410.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2719651.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4904781.0/45

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -0.449+/-0.277 $\chi^2$/NDF:8.4/5

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.351+/-0.237 $\chi^2$/NDF:7.8/5

Left: 0.013+/-0.180 $\chi^2$/NDF: 21.0/11

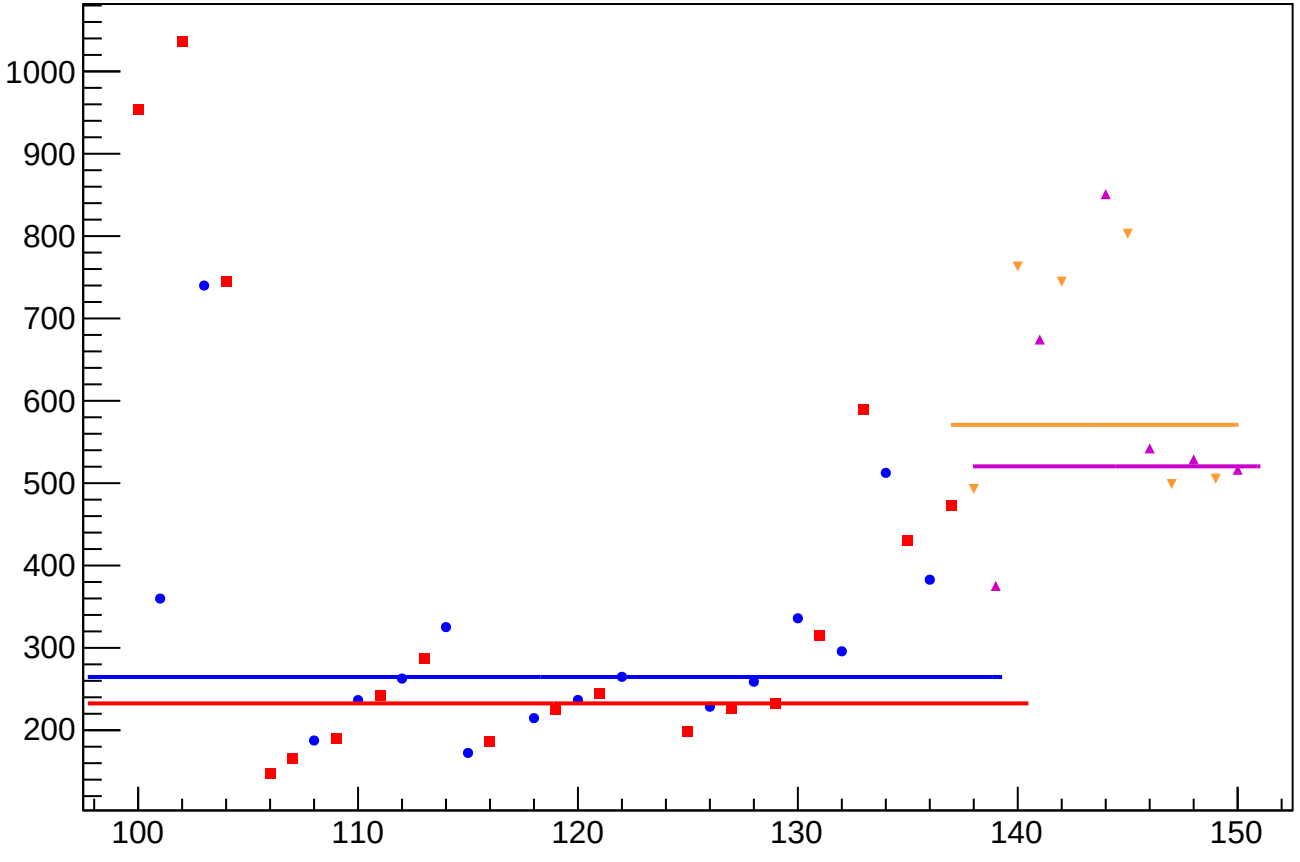
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.130+/-0.096 $\chi^2$/NDF:17.7/21

Out: -0.126+/-0.092 $\chi^2$/NDF:31.7/23

All: -0.003+/-0.066 $\chi^2$/NDF: 53.2/45

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1284007.6/15

Left Out: 570.823+/-0.196 $\chi^2$/NDF:382016.2/5

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 520.427+/-0.168 $\chi^2$/NDF:590879.2/5

Left: 541.728+/-0.127 $\chi^2$/NDF: 1011147.9/11

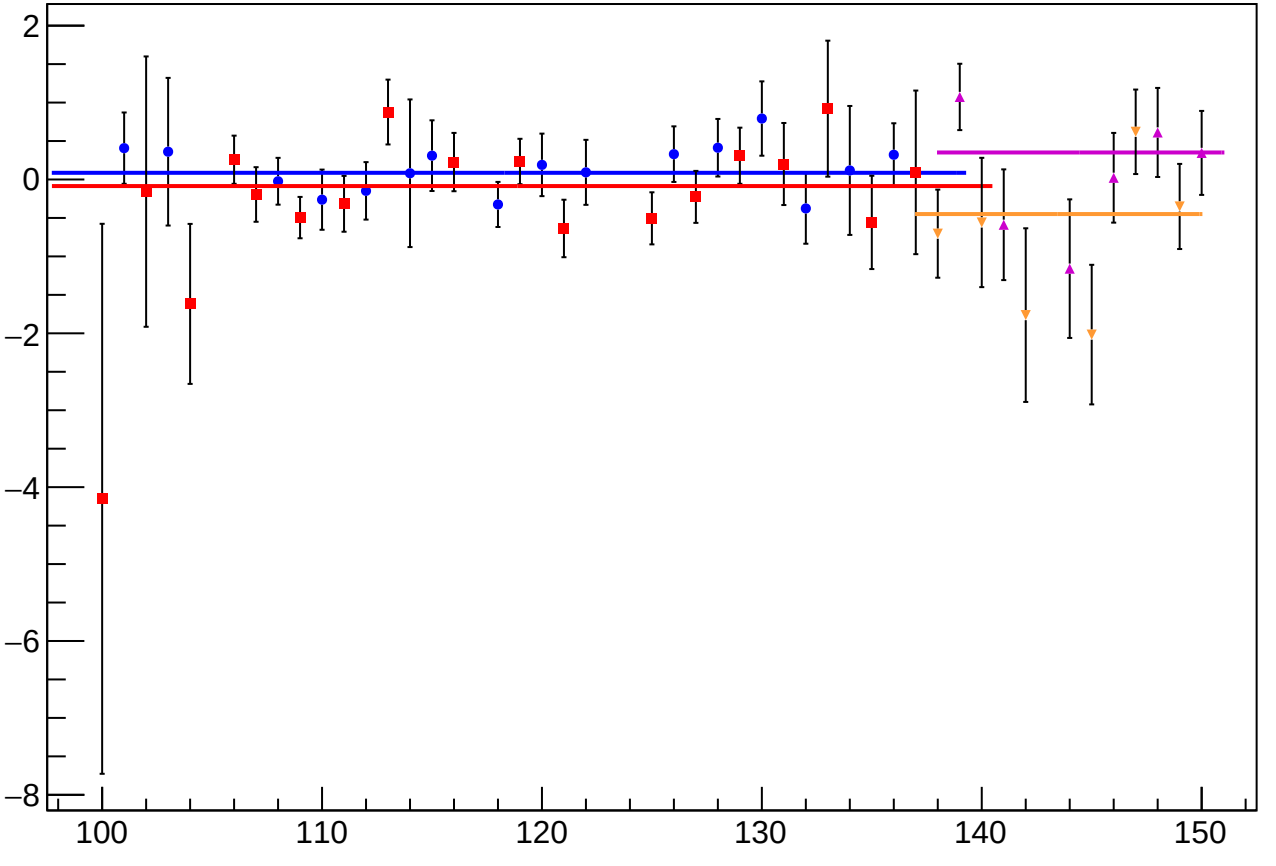
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

In: 306.710+/-0.068 $\chi^2$/NDF:3822633.3/21

Out: 269.798+/-0.065 $\chi^2$/NDF:5070843.9/23

All: 287.424+/-0.047 $\chi^2$/NDF: 9047792.6/45

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -0.449+/-0.277 $\chi^2$/NDF:8.4/5

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.351+/-0.237 $\chi^2$/NDF:7.8/5

Left: 0.013+/-0.180 $\chi^2$/NDF: 21.0/11

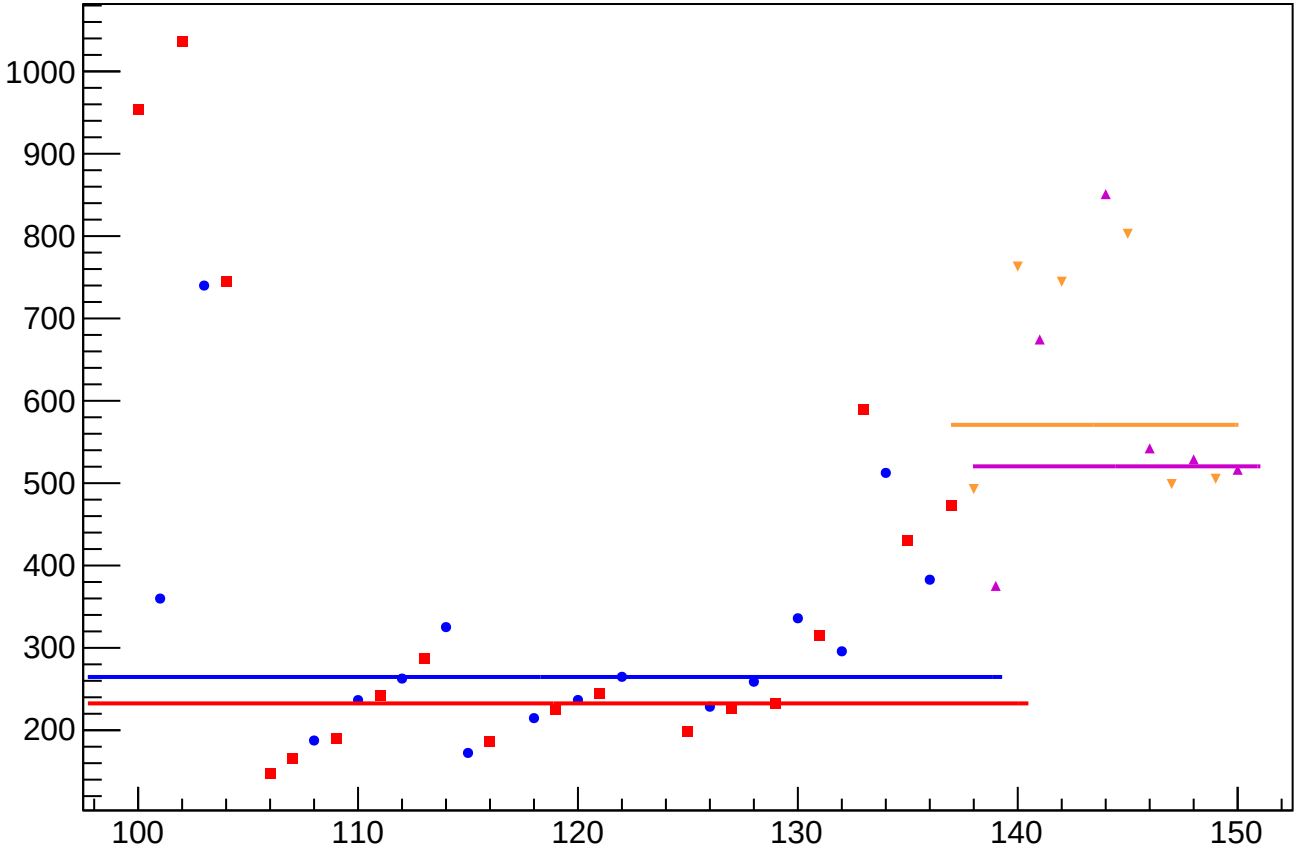
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.130+/-0.096 $\chi^2$/NDF:17.7/21

Out: -0.126+/-0.092 $\chi^2$/NDF:31.7/23

All: -0.003+/-0.066 $\chi^2$/NDF: 53.2/45

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1284007.6/15

Left Out: 570.823+/-0.196 $\chi^2$/NDF:382016.2/5

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 520.427+/-0.168 $\chi^2$/NDF:590879.2/5

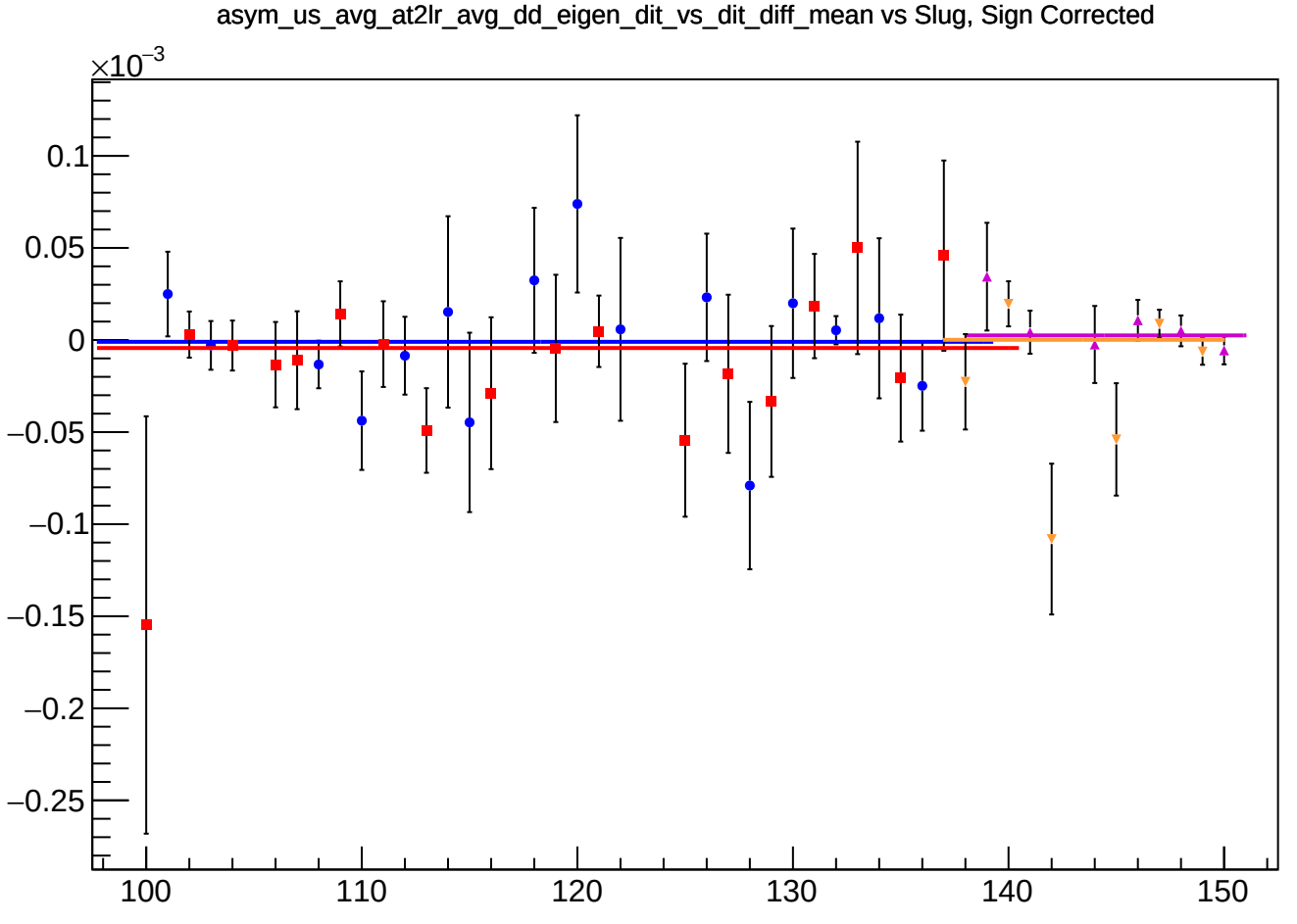
Left: 541.728+/-0.127 $\chi^2$/NDF: 1011147.9/11

Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

In: 306.710+/-0.068 $\chi^2$/NDF:3822633.3/21

Out: 269.798+/-0.065 $\chi^2$/NDF:5070843.9/23

All: 287.424+/-0.047 $\chi^2$/NDF: 9047792.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.6/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.1/5

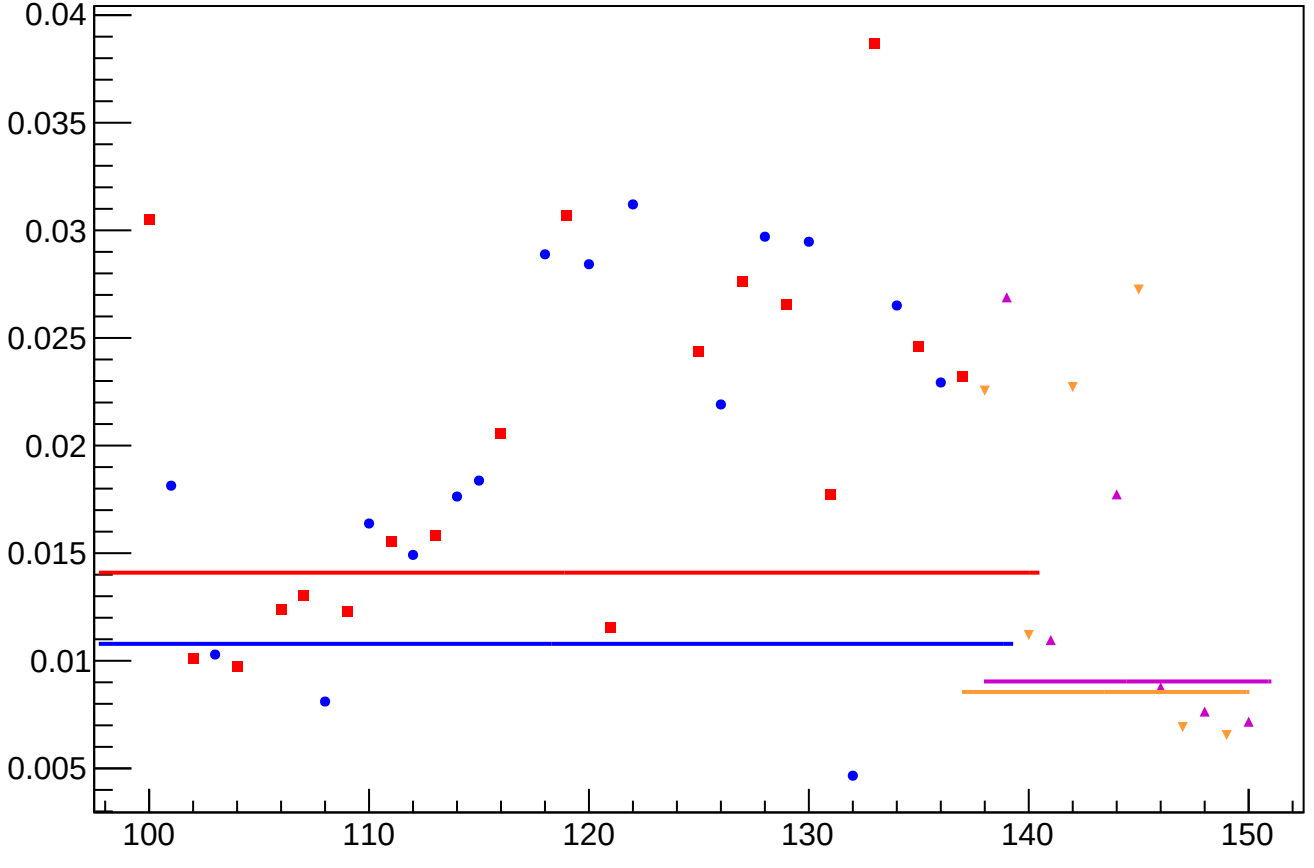
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.8/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:28.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.5/45




Right In: 0.011+/-0.000 $\chi^2$/NDF: 4580054.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:1916406.0/5

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2084942.5/17

Left In: 0.009+/-0.000 $\chi^2$/NDF:1322909.7/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 3250852.0/11

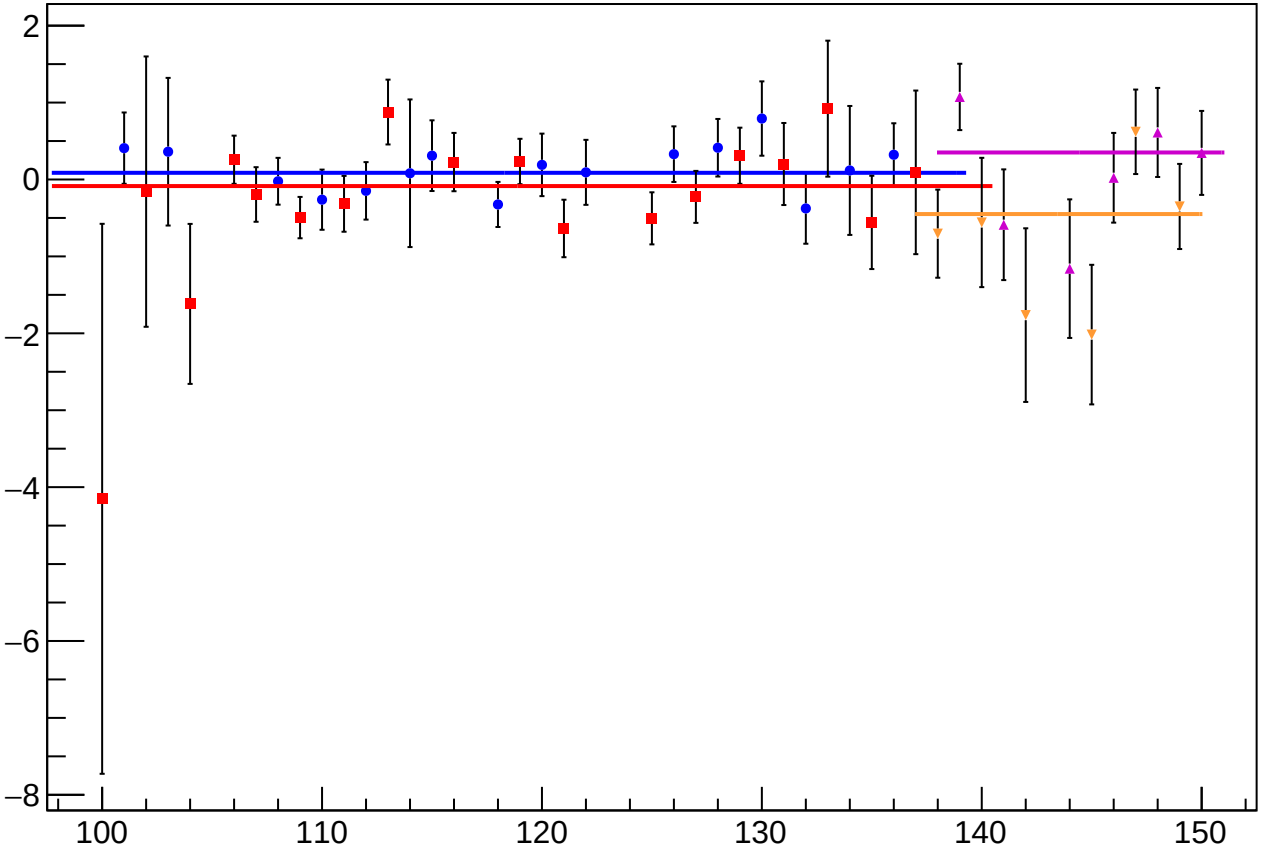
Right: 0.012+/-0.000 $\chi^2$/NDF: 7045946.1/33

In: 0.010+/-0.000 $\chi^2$/NDF:6040724.3/21

Out: 0.011+/-0.000 $\chi^2$/NDF:5132774.3/23

All: 0.010+/-0.000 $\chi^2$/NDF: 11245385.4/45

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -0.449+/-0.277 $\chi^2$/NDF:8.4/5

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.351+/-0.237 $\chi^2$/NDF:7.8/5

Left: 0.013+/-0.180 $\chi^2$/NDF: 21.0/11

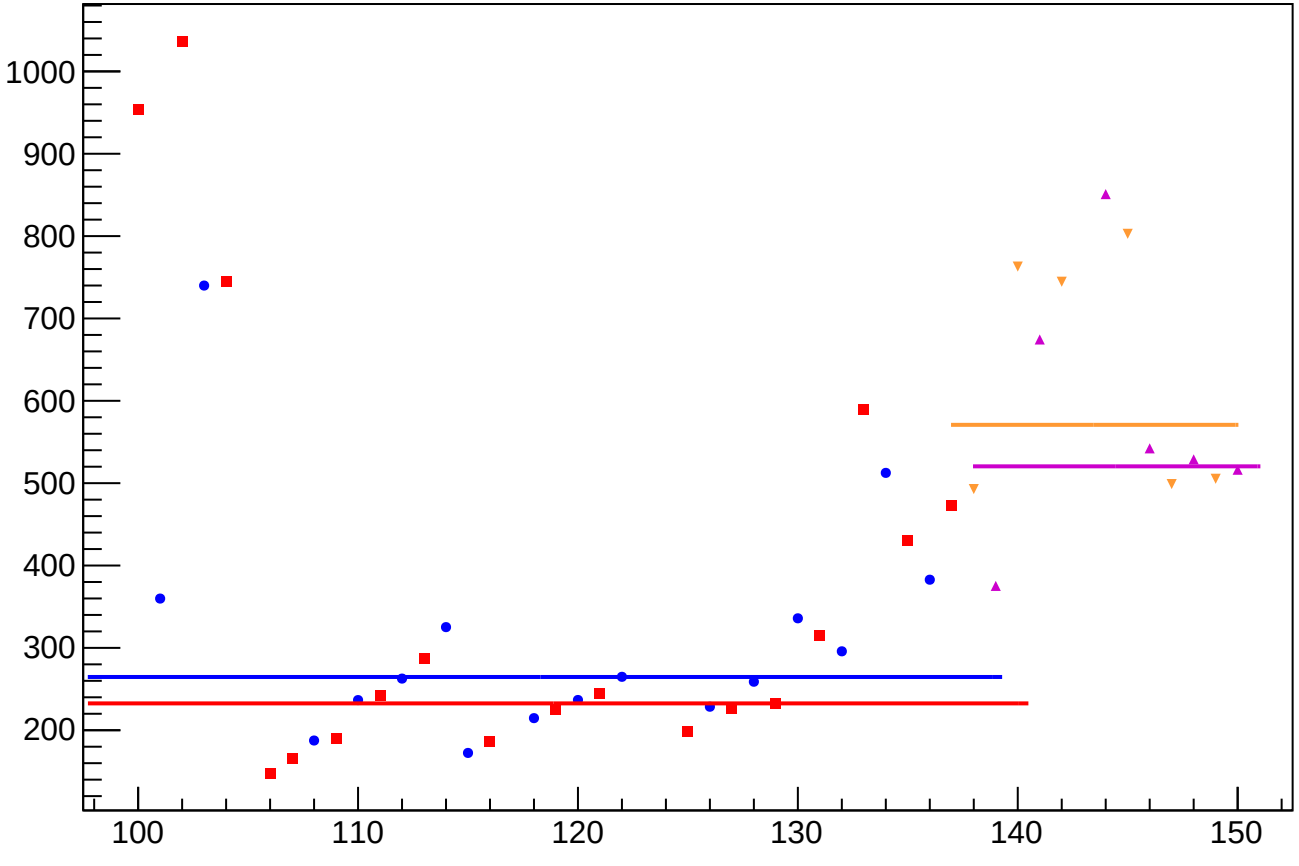
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.130+/-0.096 $\chi^2$/NDF:17.7/21

Out: -0.126+/-0.092 $\chi^2$/NDF:31.7/23

All: -0.003+/-0.066 $\chi^2$/NDF: 53.2/45

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1283977.8/15

Left Out: 570.829+/-0.196 $\chi^2$/NDF:382019.7/5

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 520.435+/-0.168 $\chi^2$/NDF:590856.6/5

Left: 541.735+/-0.127 $\chi^2$/NDF: 1011124.9/11

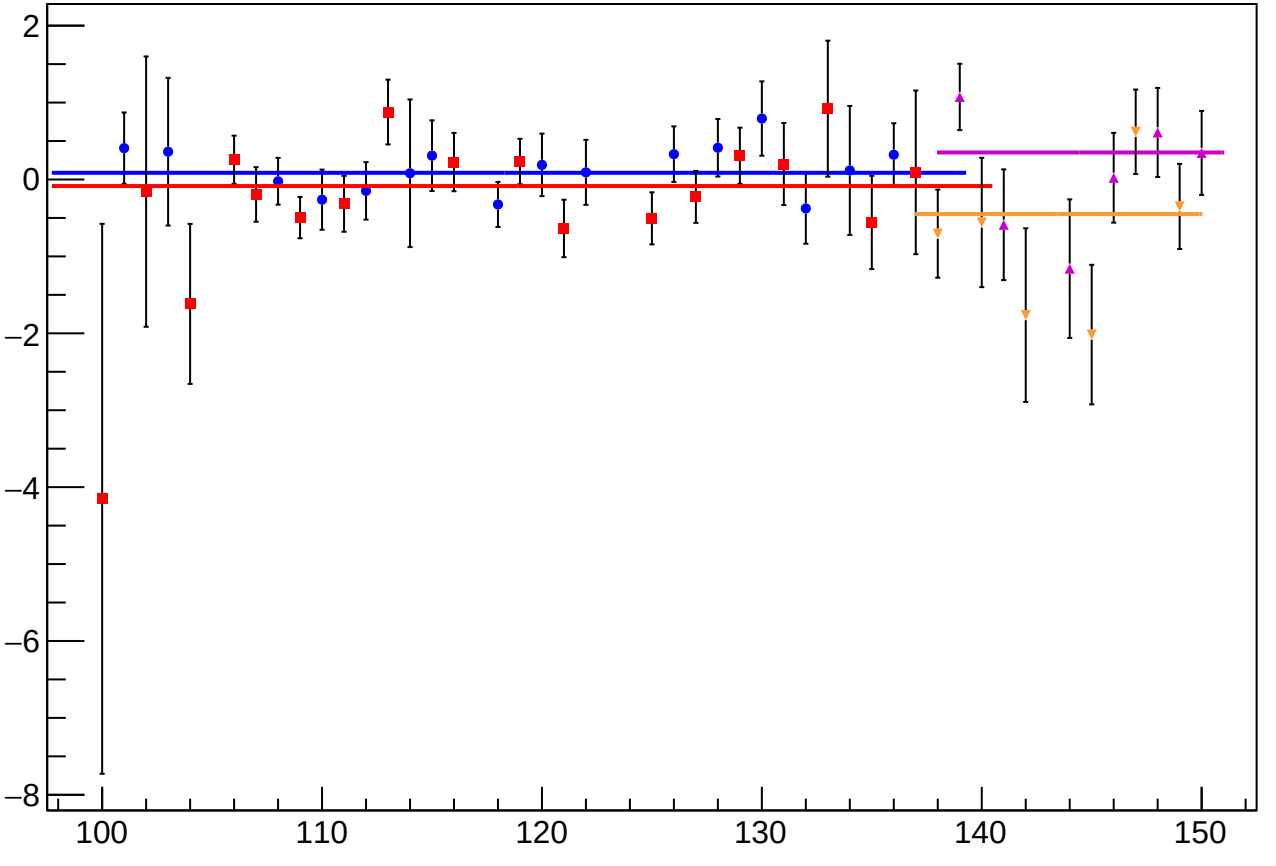
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

In: 306.710+/-0.068 $\chi^2$/NDF:3822657.8/21

Out: 269.799+/-0.065 $\chi^2$/NDF:5070872.2/23

All: 287.425+/-0.047 $\chi^2$/NDF: 9047839.2/45

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -0.449+/-0.277 $\chi^2$/NDF:8.4/5

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.351+/-0.237 $\chi^2$/NDF:7.8/5

Left: 0.013+/-0.180 $\chi^2$/NDF: 21.0/11

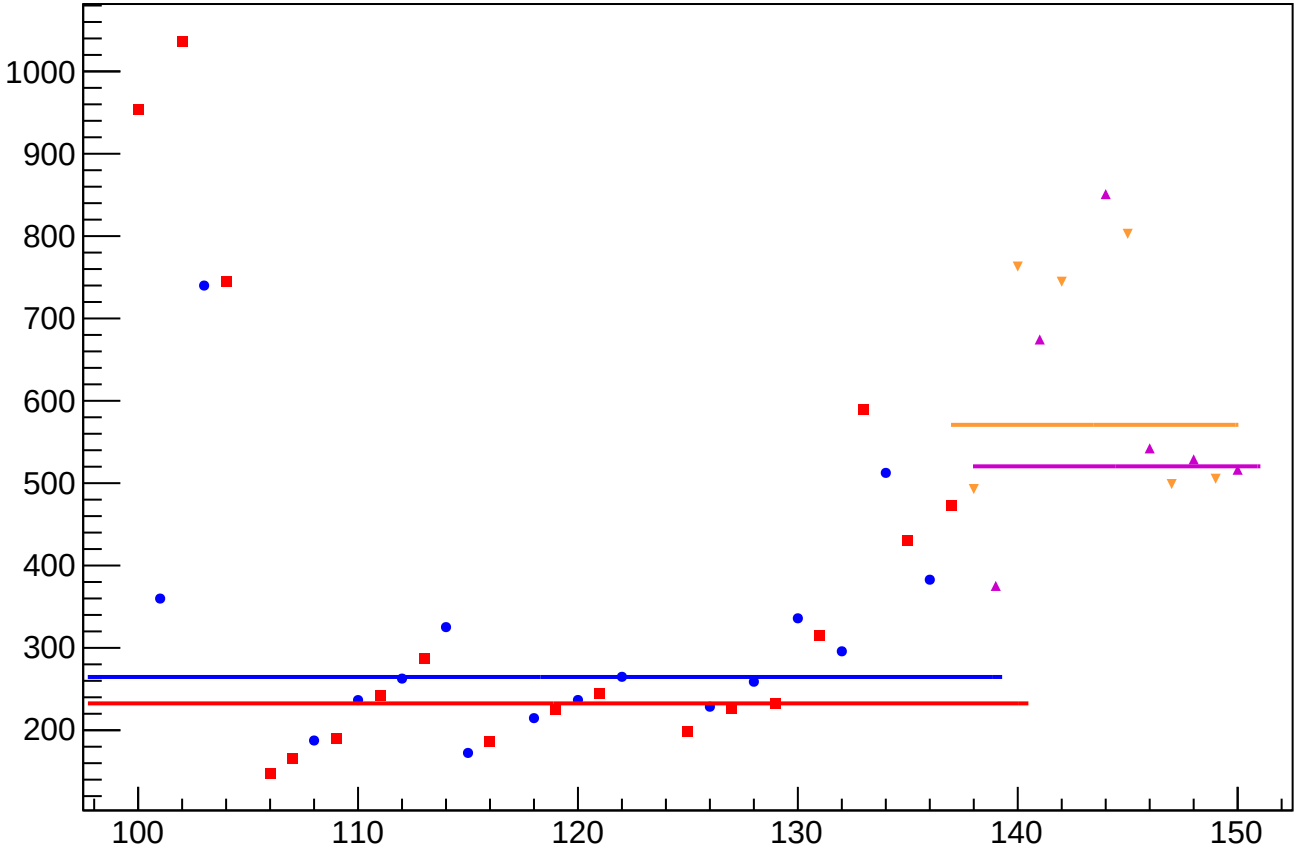
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.130+/-0.096 $\chi^2$/NDF:17.7/21

Out: -0.126+/-0.092 $\chi^2$/NDF:31.7/23

All: -0.003+/-0.066 $\chi^2$/NDF: 53.2/45

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1283977.8/15

Left Out: 570.829+/-0.196 $\chi^2$/NDF:382019.7/5

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 520.435+/-0.168 $\chi^2$/NDF:590856.6/5

Left: 541.735+/-0.127 $\chi^2$/NDF: 1011124.9/11

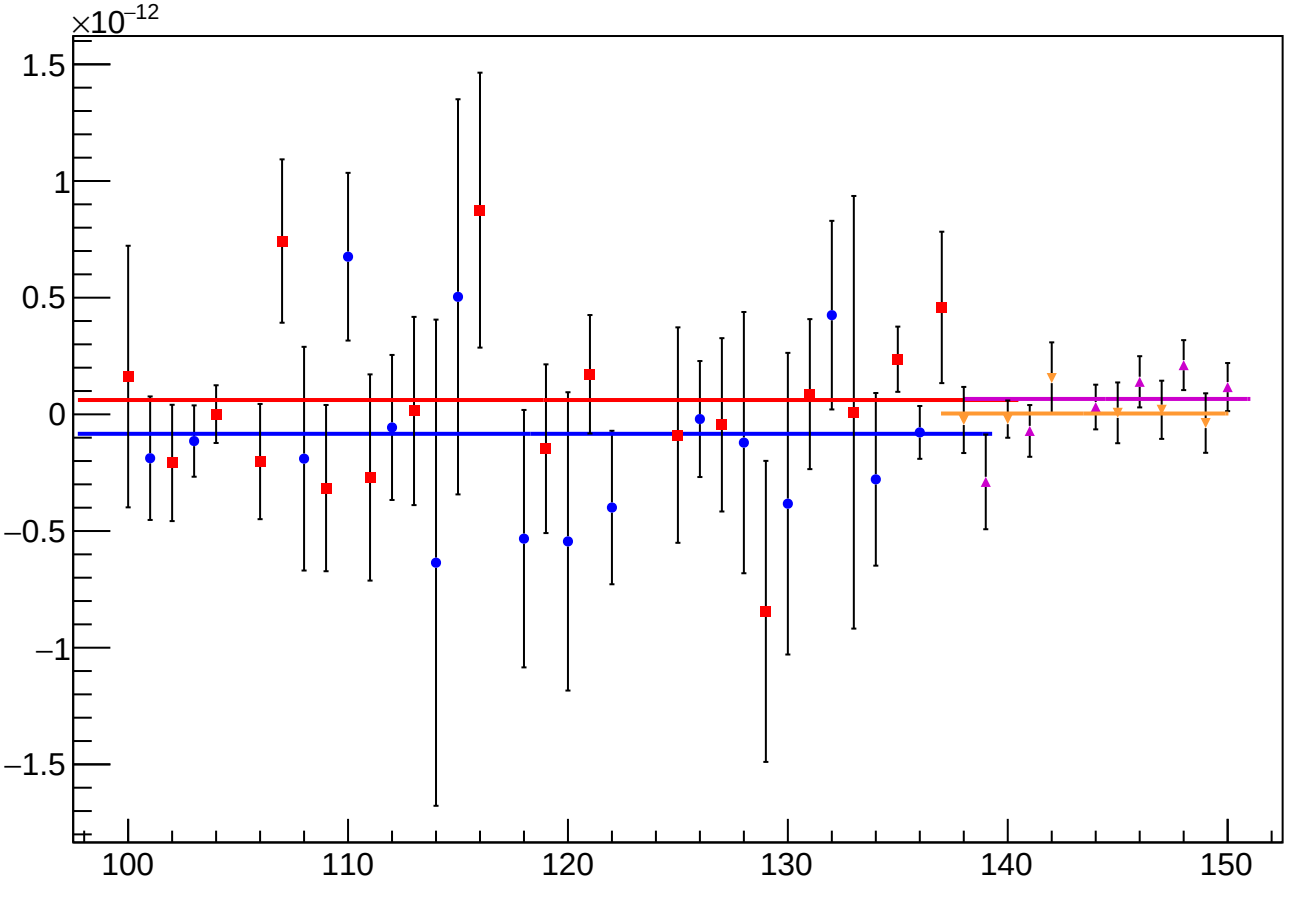
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

In: 306.710+/-0.068 $\chi^2$/NDF:3822657.8/21

Out: 269.799+/-0.065 $\chi^2$/NDF:5070872.2/23

All: 287.425+/-0.047 $\chi^2$/NDF: 9047839.2/45

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.2/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.2/5

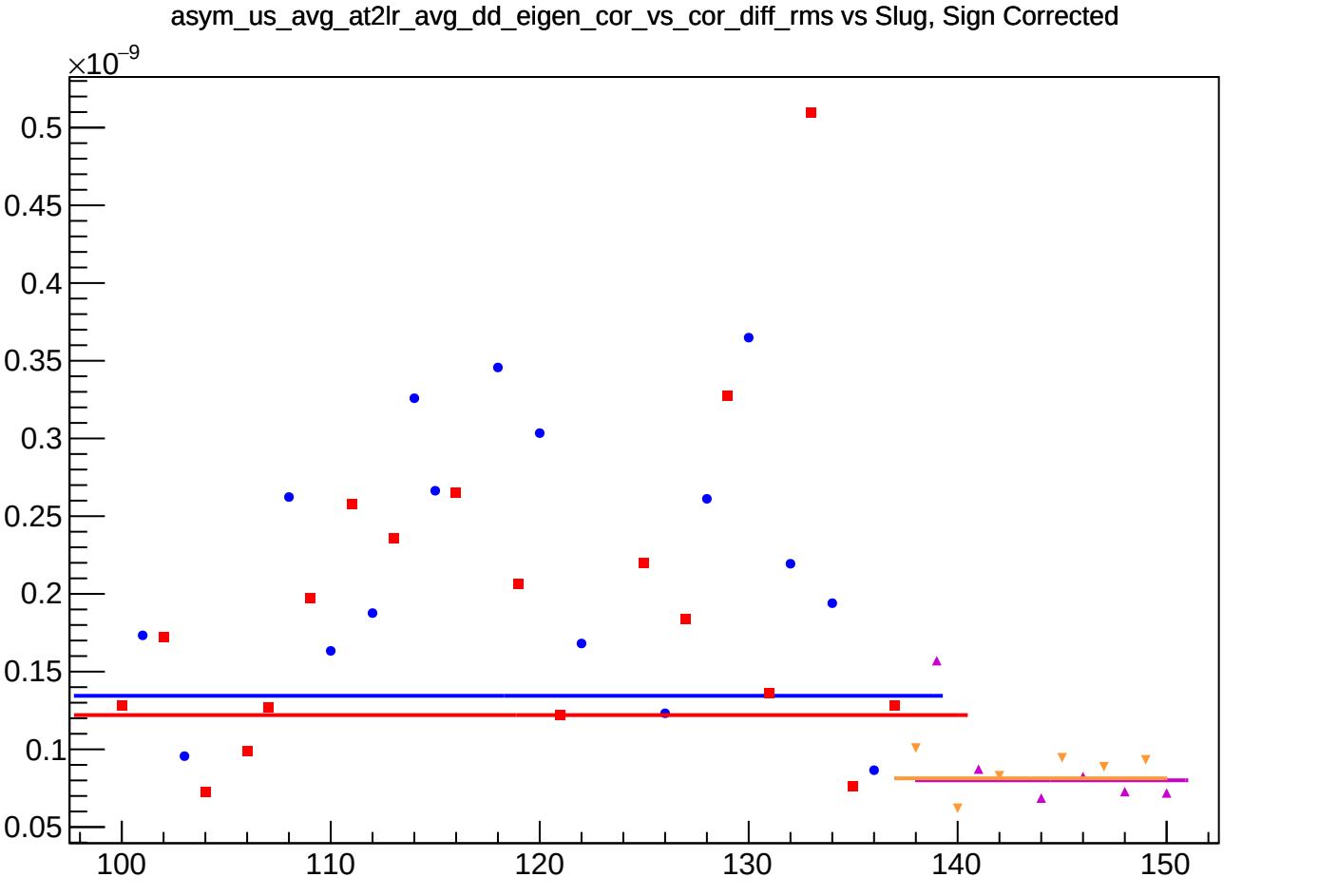
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.4/11

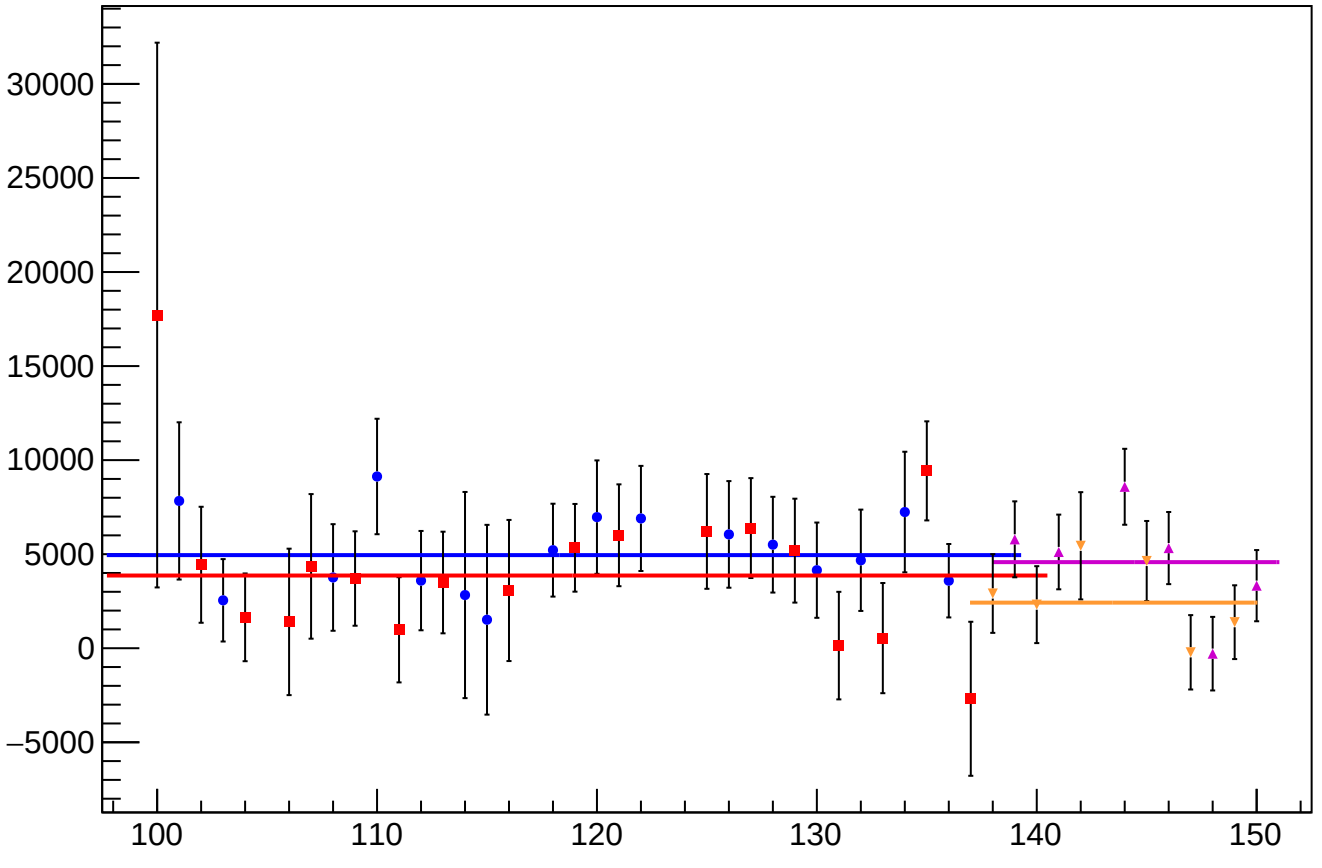
Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:20.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:17.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 37.7/45


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1814968.0/15
Left Out: 0.000+/-0.000 χ²/NDF:200010.1/5
Right Out: 0.000+/-0.000 χ²/NDF: 2003381.5/17
Left In: 0.000+/-0.000 χ²/NDF:347367.9/5
Left: 0.000+/-0.000 χ²/NDF: 548106.8/11
Right: 0.000+/-0.000 χ²/NDF: 3852912.0/33
In: 0.000+/-0.000 χ²/NDF:3024837.1/21
Out: 0.000+/-0.000 χ²/NDF:2714977.7/23
All: 0.000+/-0.000 χ²/NDF: 5740263.6/45




Right In: 4950.321+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 2424.072+/-867.954 $\chi^2$/NDF:4.3/5

Right Out: 3865.145+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4576.977+/-801.459 $\chi^2$/NDF:11.2/5

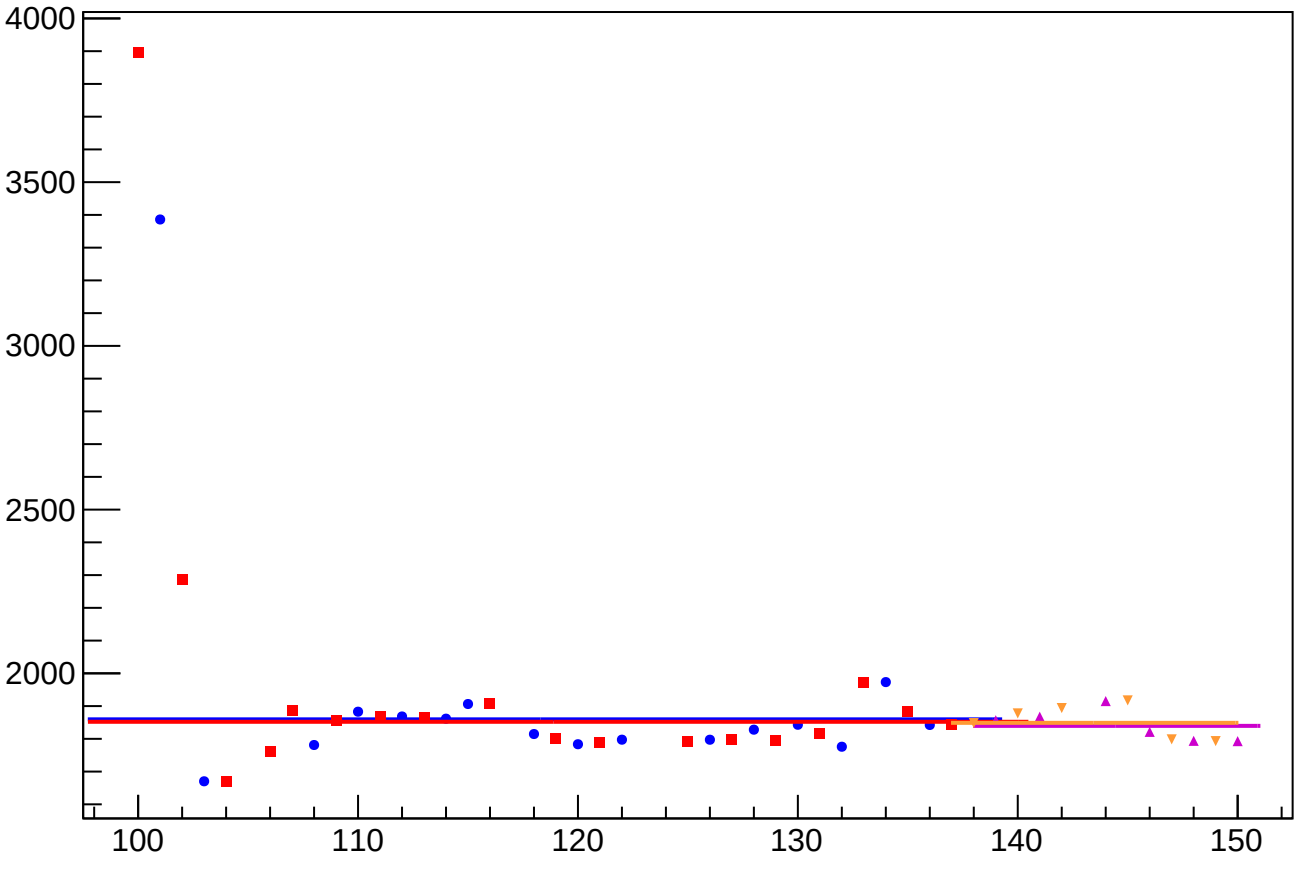
Left: 3586.142+/-588.823 $\chi^2$/NDF: 18.8/11

Right: 4405.277+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4789.041+/-526.765 $\chi^2$/NDF:18.1/21

Out: 3301.375+/-542.881 $\chi^2$/NDF:22.2/23

All: 4067.617+/-378.048 $\chi^2$/NDF: 44.2/45




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292334.6/15

Left Out: 1848.850+/-0.614 $\chi^2$/NDF:5896.9/5

Right Out: 1852.065+/-0.490 $\chi^2$/NDF: 102212.5/17

Left In: 1839.613+/-0.567 $\chi^2$/NDF:5844.3/5

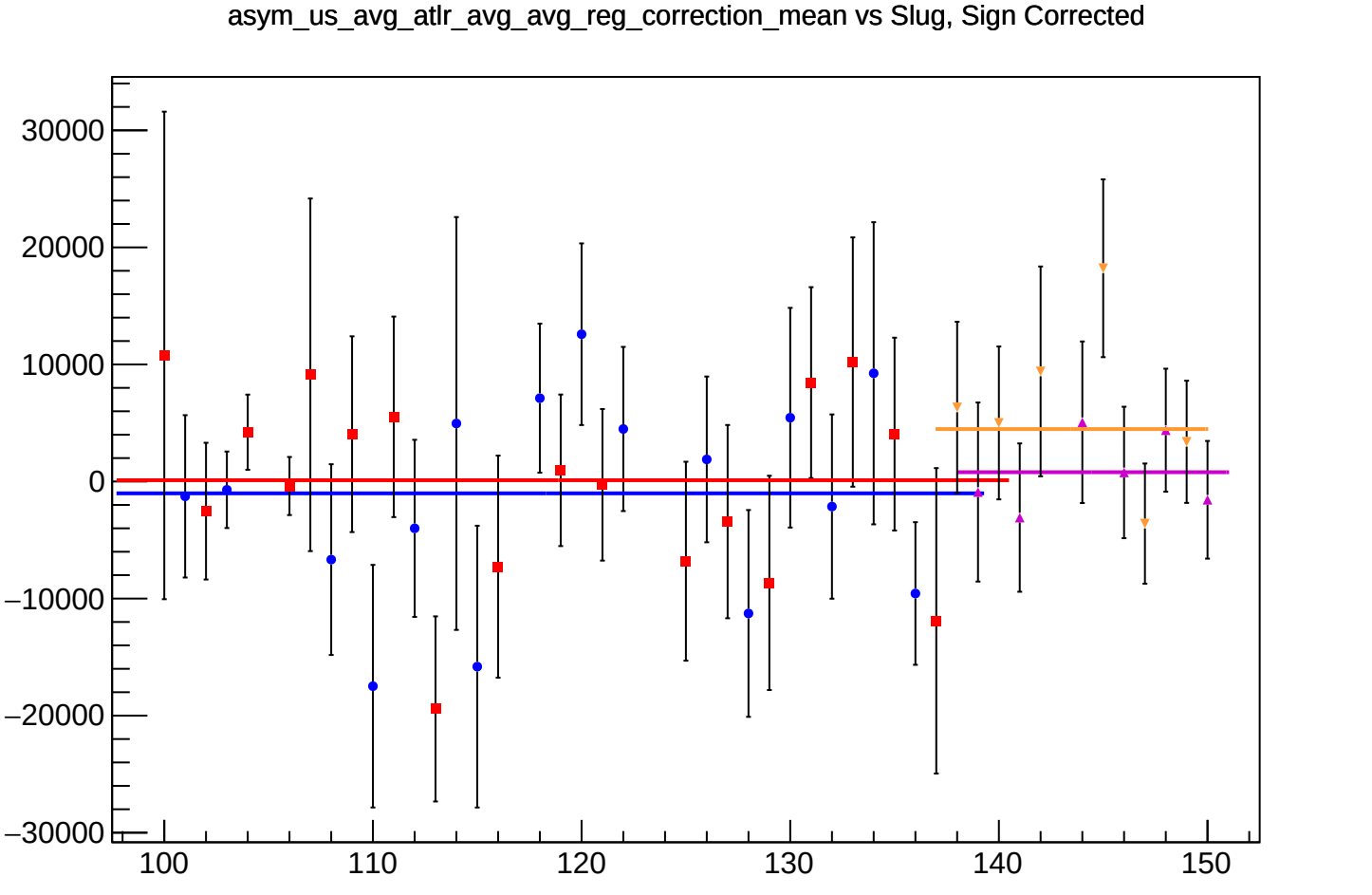
Left: 1843.864+/-0.416 $\chi^2$/NDF: 11863.5/11

Right: 1855.759+/-0.348 $\chi^2$/NDF: 394661.4/33

In: 1850.914+/-0.372 $\chi^2$/NDF:298879.0/21

Out: 1850.812+/-0.383 $\chi^2$/NDF:108126.2/23

All: 1850.865+/-0.267 $\chi^2$/NDF: 407005.2/45




Right In: -1010.288+/-1764.180 $\chi^2$/NDF: 14.7/15

Left Out: 4480.012+/-2611.465 $\chi^2$/NDF:6.2/5

Right Out: 111.261+/-1438.515 $\chi^2$/NDF: 14.6/17

Left In: 794.667+/-2421.498 $\chi^2$/NDF:1.5/5

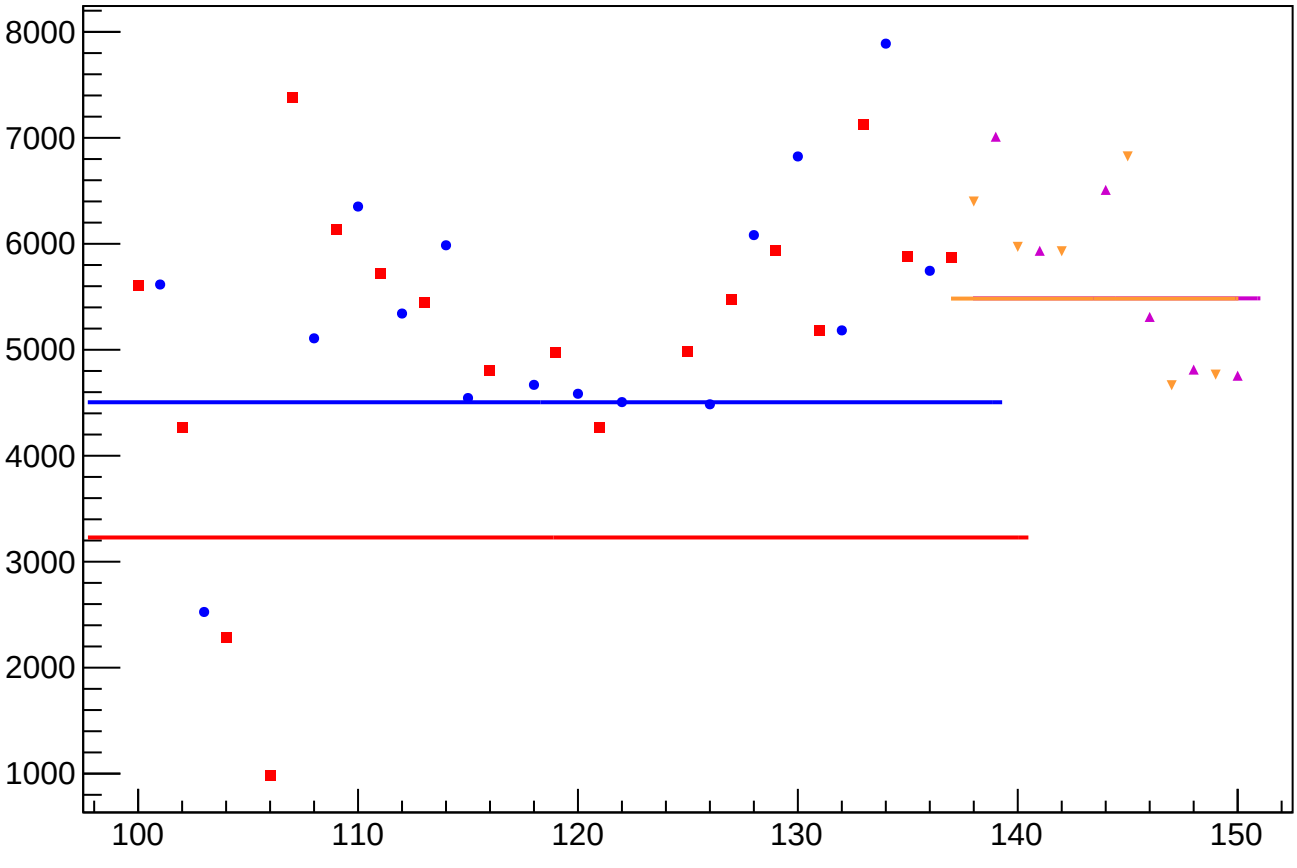
Left: 2498.436+/-1775.622 $\chi^2$/NDF: 8.7/11

Right: -336.636+/-1114.867 $\chi^2$/NDF: 29.6/33

In: -384.438+/-1425.890 $\chi^2$/NDF:16.6/21

Out: 1128.281+/-1259.999 $\chi^2$/NDF:22.9/23

All: 464.998+/-944.184 $\chi^2$/NDF: 40.2/45




Right In: 4504.788+/-1.247 $\chi^2$/NDF: 1321104.9/15

Left Out: 5483.146+/-1.847 $\chi^2$/NDF:198560.8/5

Right Out: 3228.605+/-1.017 $\chi^2$/NDF: 3956397.6/17

Left In: 5485.259+/-1.712 $\chi^2$/NDF:210542.6/5

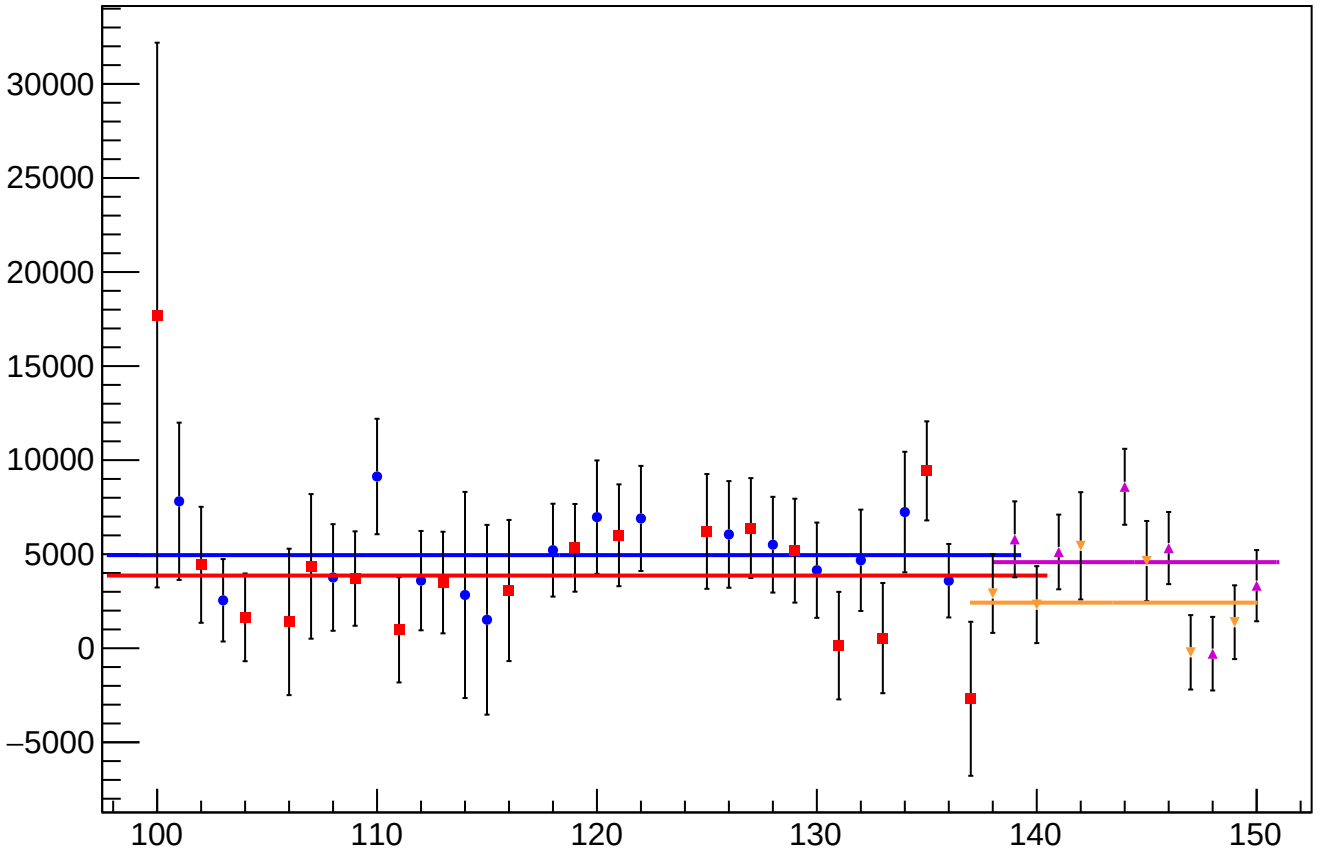
Left: 5484.282+/-1.256 $\chi^2$/NDF: 409104.1/11

Right: 3738.256+/-0.788 $\chi^2$/NDF: 5906121.0/33

In: 4844.756+/-1.008 $\chi^2$/NDF:1745846.4/21

Out: 3753.449+/-0.891 $\chi^2$/NDF:5298599.1/23

All: 4231.956+/-0.668 $\chi^2$/NDF: 7702291.4/45




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 2423.948+/-867.954 $\chi^2$/NDF:4.3/5

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4577.276+/-801.459 $\chi^2$/NDF:11.2/5

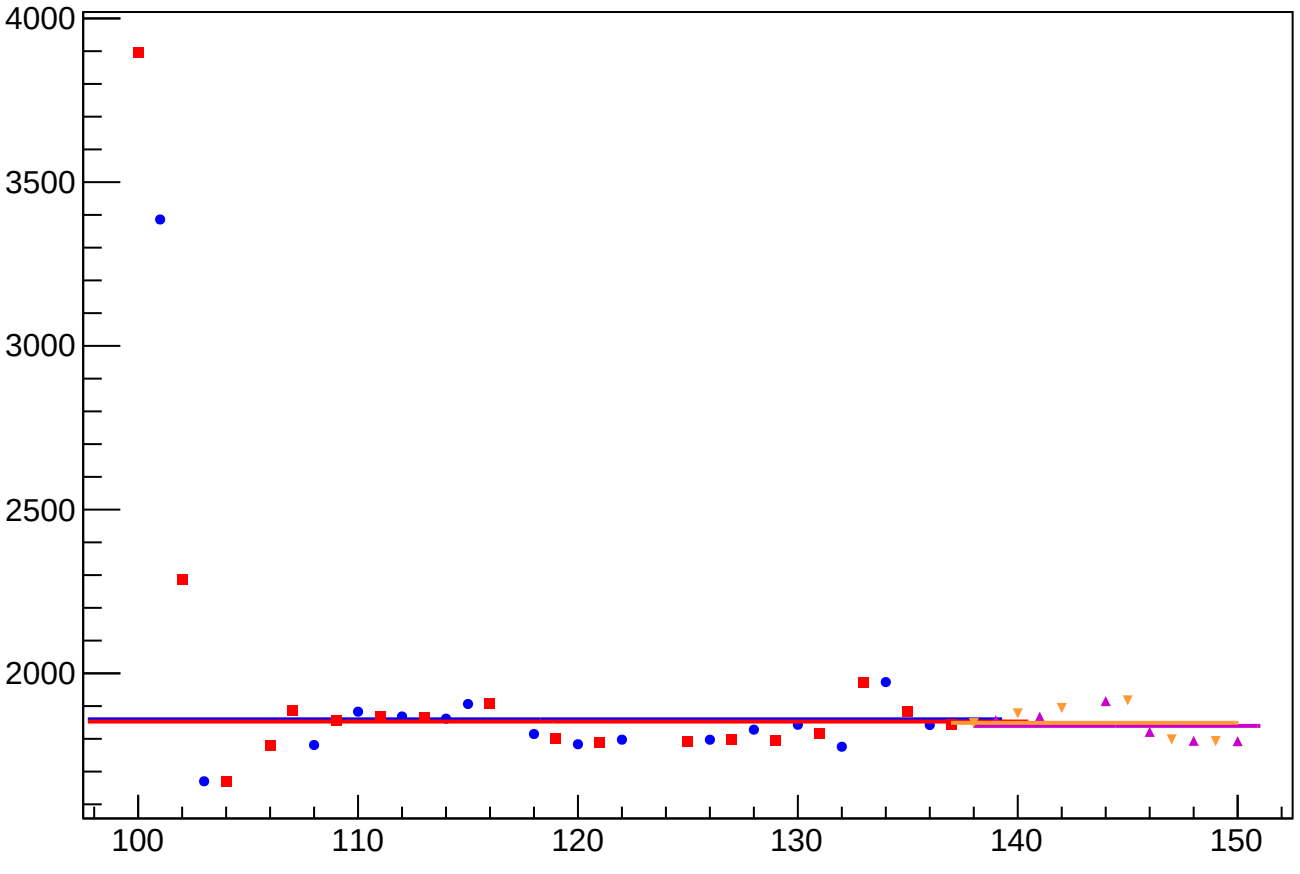
Left: 3586.246+/-588.823 $\chi^2$/NDF: 18.8/11

Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4788.896+/-526.765 $\chi^2$/NDF:18.1/21

Out: 3301.196+/-542.881 $\chi^2$/NDF:22.2/23

All: 4067.455+/-378.048 $\chi^2$/NDF: 44.1/45




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292336.5/15

Left Out: 1848.850+/-0.614 $\chi^2$/NDF:5896.9/5

Right Out: 1852.770+/-0.491 $\chi^2$/NDF: 101750.5/17

Left In: 1839.613+/-0.567 $\chi^2$/NDF:5844.3/5

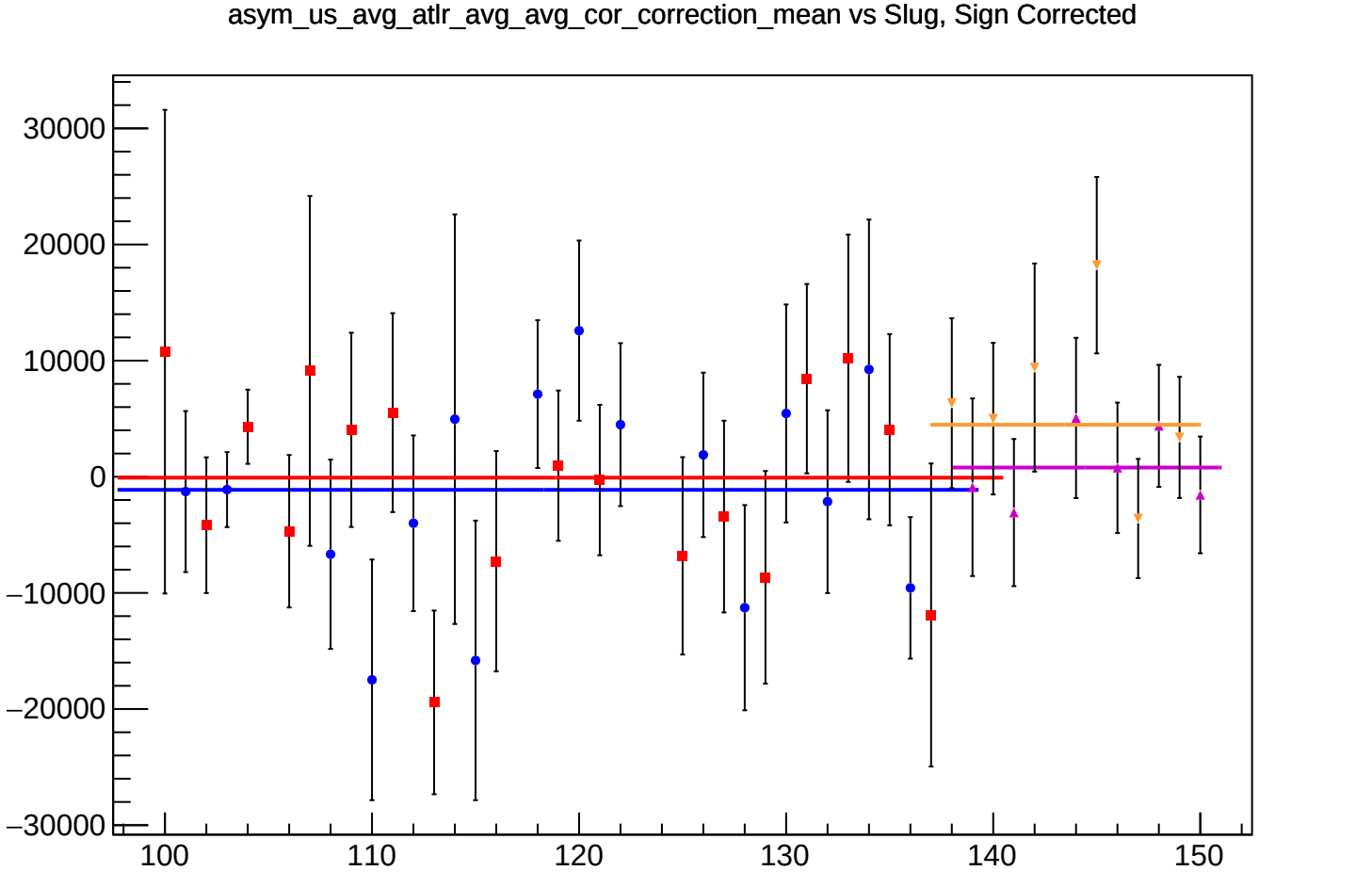
Left: 1843.864+/-0.416 $\chi^2$/NDF: 11863.5/11

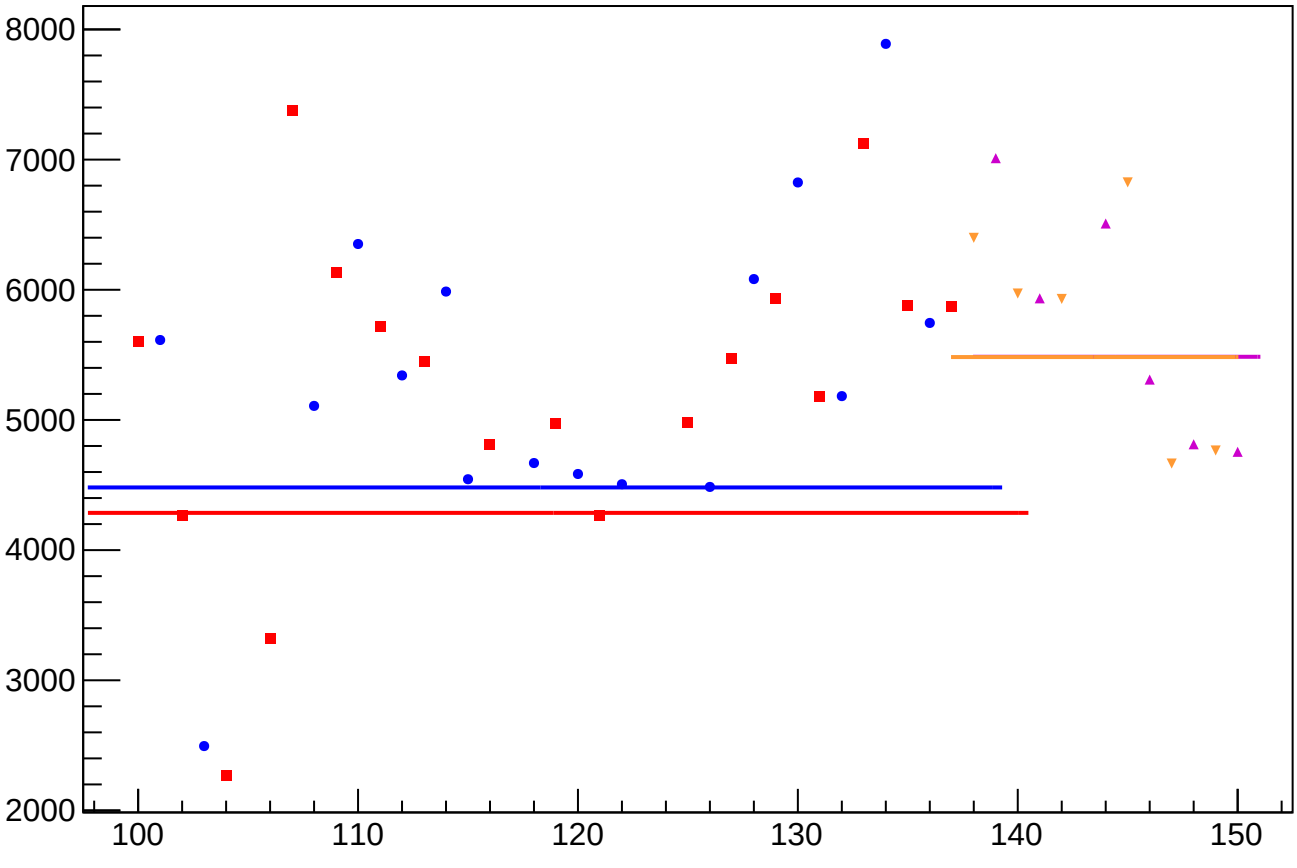
Right: 1856.115+/-0.348 $\chi^2$/NDF: 394180.6/33

In: 1850.914+/-0.372 $\chi^2$/NDF:298880.9/21

Out: 1851.242+/-0.383 $\chi^2$/NDF:107672.3/23

All: 1851.073+/-0.267 $\chi^2$/NDF: 406553.6/45


asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
Right In: -1125.567+/-1757.876 χ²/NDF: 14.7/15
Left Out: 4479.893+/-2611.460 χ²/NDF:6.2/5
Right Out: -78.270+/-1702.444 χ²/NDF: 15.5/17
Left In: 794.820+/-2421.497 χ²/NDF:1.5/5
Left: 2498.466+/-1775.620 χ²/NDF: 8.7/11
Right: -585.146+/-1222.937 χ²/NDF: 30.5/33
In: -462.803+/-1422.555 χ²/NDF:16.6/21
Out: 1281.160+/-1426.155 χ²/NDF:23.8/23
All: 406.974+/-1007.169 χ²/NDF: 41.2/45




Right In: 4481.518+/-1.243 $\chi^2$/NDF: 1362255.0/15

Left Out: 5483.134+/-1.847 $\chi^2$/NDF:198560.7/5

Right Out: 4286.125+/-1.204 $\chi^2$/NDF: 1549852.7/17

Left In: 5485.256+/-1.712 $\chi^2$/NDF:210543.3/5

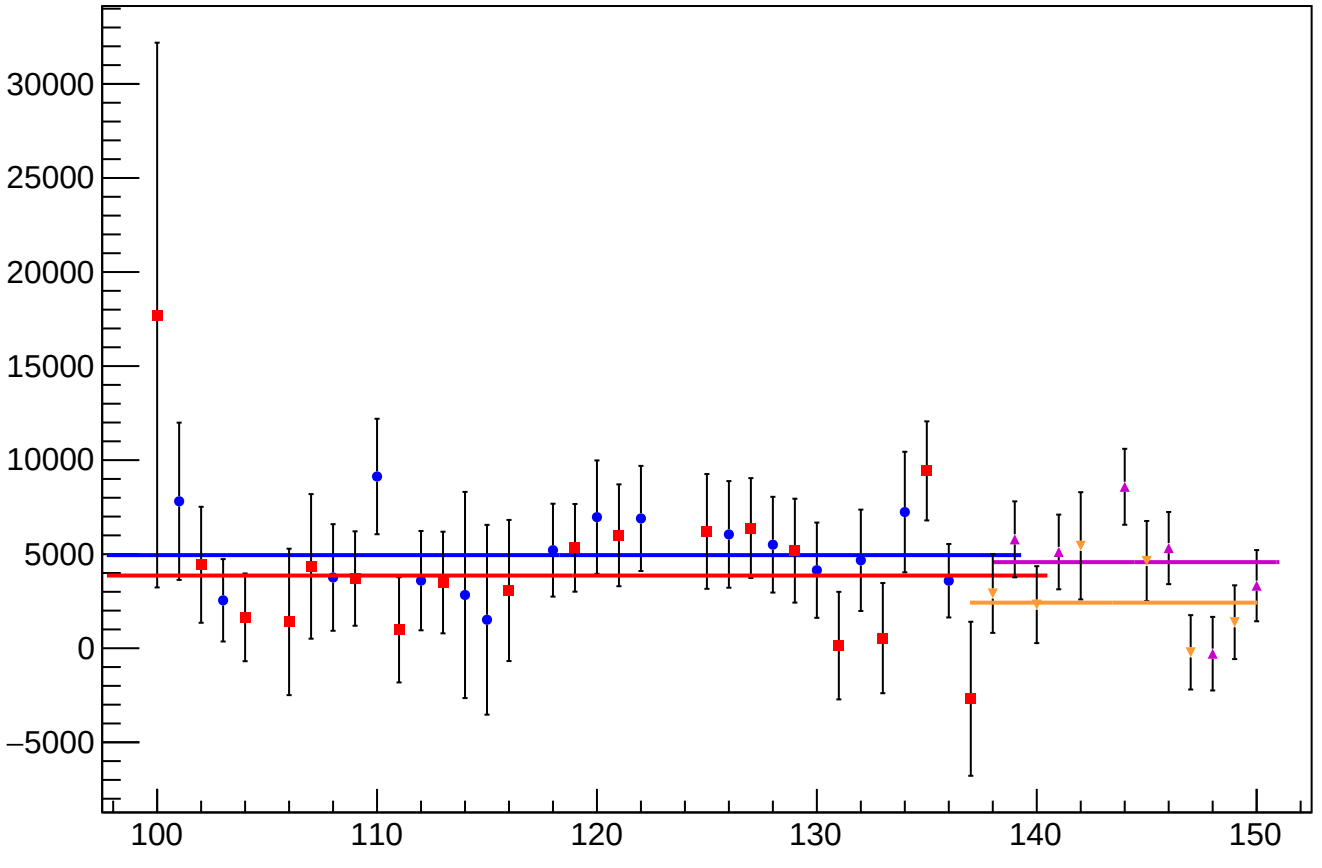
Left: 5484.275+/-1.256 $\chi^2$/NDF: 409104.6/11

Right: 4380.692+/-0.865 $\chi^2$/NDF: 2924858.4/33

In: 4827.928+/-1.006 $\chi^2$/NDF:1797840.9/21

Out: 4643.122+/-1.008 $\chi^2$/NDF:2043294.1/23

All: 4735.759+/-0.712 $\chi^2$/NDF: 3857969.2/45




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 2423.948+/-867.954 $\chi^2$/NDF:4.3/5

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4577.276+/-801.459 $\chi^2$/NDF:11.2/5

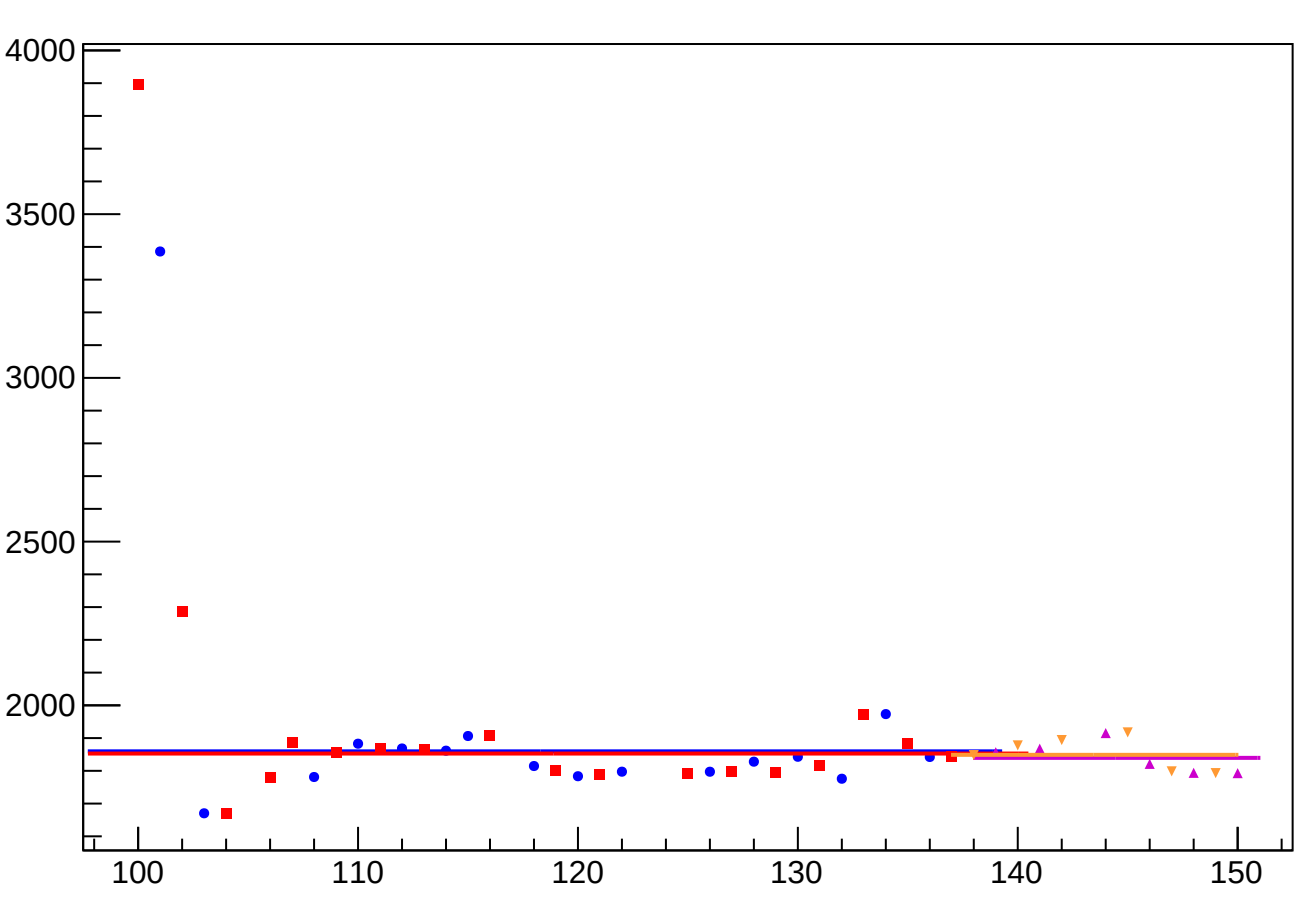
Left: 3586.246+/-588.823 $\chi^2$/NDF: 18.8/11

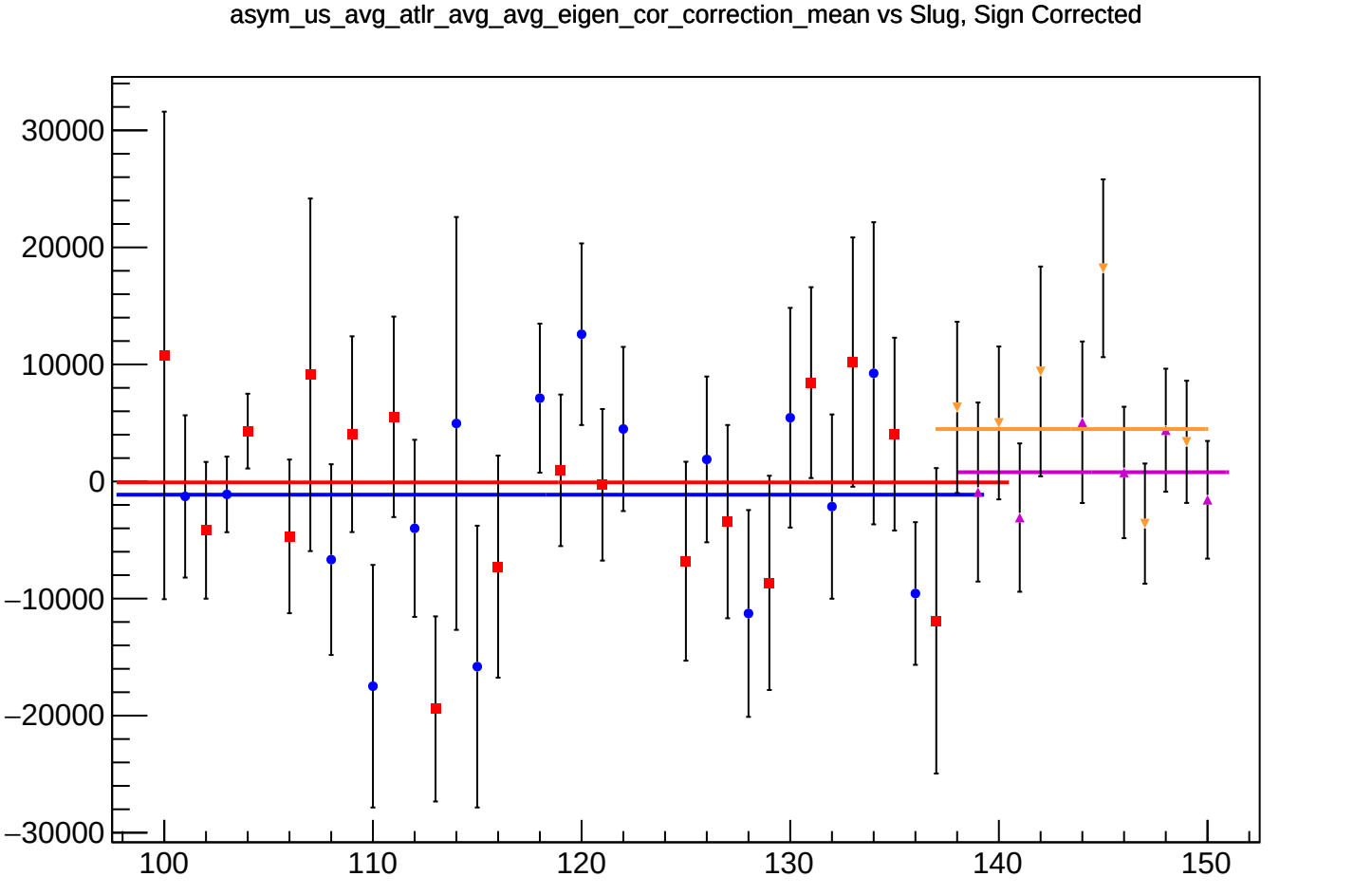
Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4788.896+/-526.765 $\chi^2$/NDF:18.1/21

Out: 3301.196+/-542.881 $\chi^2$/NDF:22.2/23

All: 4067.455+/-378.048 $\chi^2$/NDF: 44.1/45


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
100
110
120
130
140
150
Right In: 1859.509+/-0.494 χ²/NDF: 292336.5/15
Left Out: 1848.850+/-0.614 χ²/NDF:5896.9/5
Right Out: 1852.770+/-0.491 χ²/NDF: 101750.5/17
Left In: 1839.613+/-0.567 χ²/NDF:5844.3/5
Left: 1843.864+/-0.416 χ²/NDF: 11863.5/11
Right: 1856.115+/-0.348 χ²/NDF: 394180.6/33
In: 1850.914+/-0.372 χ²/NDF:298880.9/21
Out: 1851.242+/-0.383 χ²/NDF:107672.3/23
All: 1851.073+/-0.267 χ²/NDF: 406553.6/45




Right In: -1125.567+/-1757.876 $\chi^2$/NDF: 14.7/15

Left Out: 4479.893+/-2611.460 $\chi^2$/NDF:6.2/5

Right Out: -78.270+/-1702.444 $\chi^2$/NDF: 15.5/17

Left In: 794.820+/-2421.497 $\chi^2$/NDF:1.5/5

Left: 2498.466+/-1775.620 $\chi^2$/NDF: 8.7/11

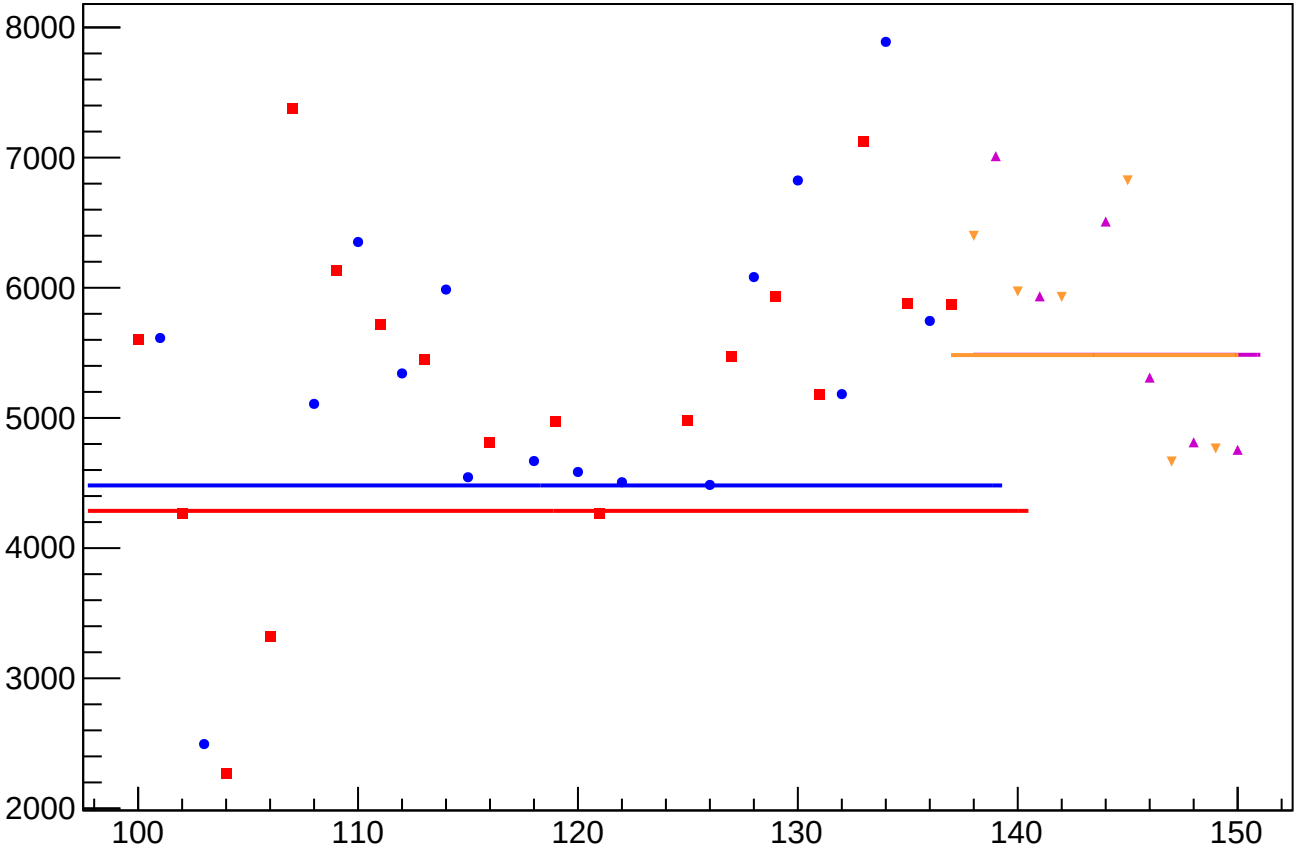
Right: -585.146+/-1222.937 $\chi^2$/NDF: 30.5/33

In: -462.803+/-1422.555 $\chi^2$/NDF:16.6/21

Out: 1281.160+/-1426.155 $\chi^2$/NDF:23.8/23

All: 406.974+/-1007.169 $\chi^2$/NDF: 41.2/45

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 4481.518+/-1.243 $\chi^2$/NDF: 1362255.0/15

Left Out: 5483.134+/-1.847 $\chi^2$/NDF:198560.7/5

Right Out: 4286.125+/-1.204 $\chi^2$/NDF: 1549852.7/17

Left In: 5485.256+/-1.712 $\chi^2$/NDF:210543.3/5

Left: 5484.275+/-1.256 $\chi^2$/NDF: 409104.6/11

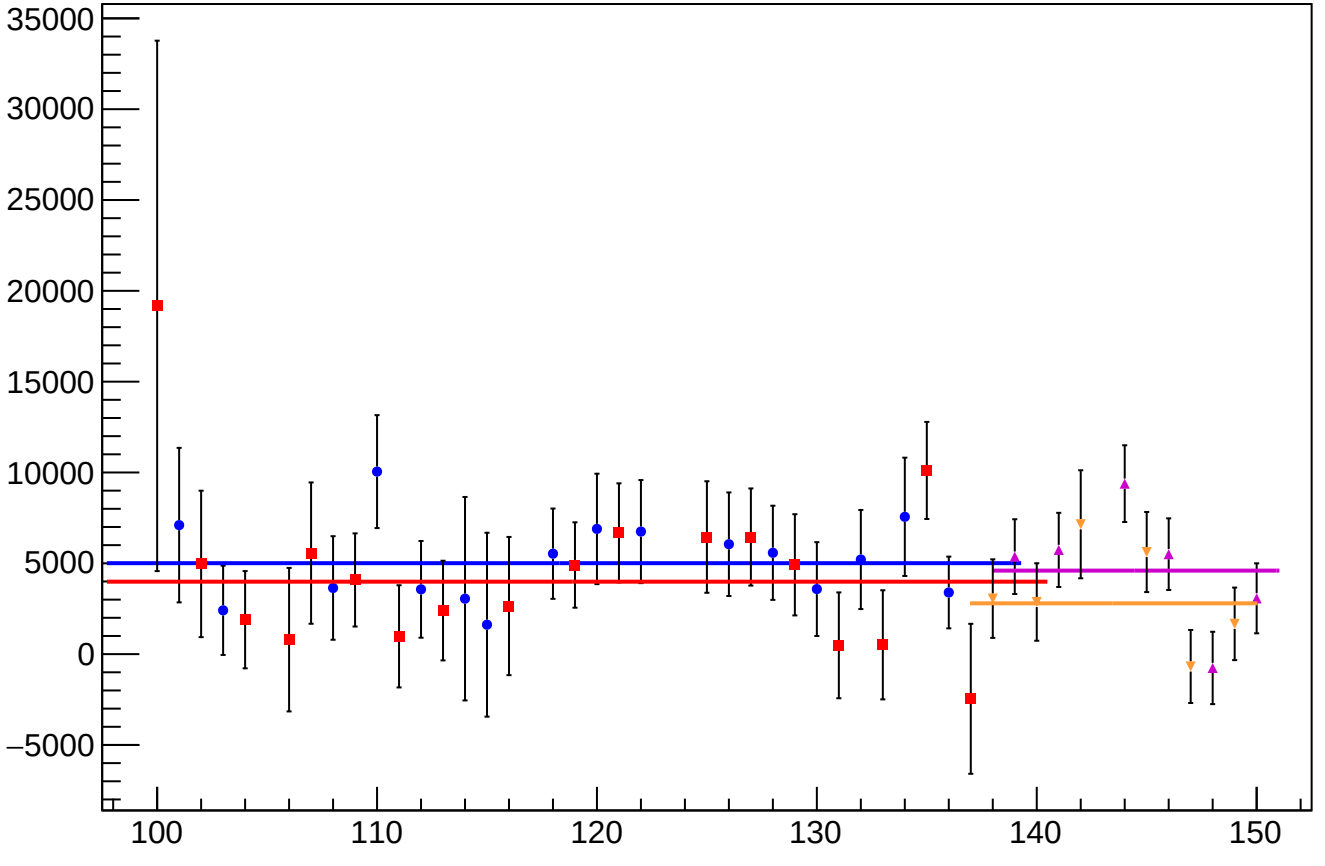
Right: 4380.692+/-0.865 $\chi^2$/NDF: 2924858.4/33

In: 4827.928+/-1.006 $\chi^2$/NDF:1797840.9/21

Out: 4643.122+/-1.008 $\chi^2$/NDF:2043294.1/23

All: 4735.759+/-0.712 $\chi^2$/NDF: 3857969.2/45

dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected




Right In: 5007.315+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 2797.506+/-894.269 $\chi^2$/NDF:7.1/5

Right Out: 3989.193+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 4598.011+/-822.226 $\chi^2$/NDF:13.7/5

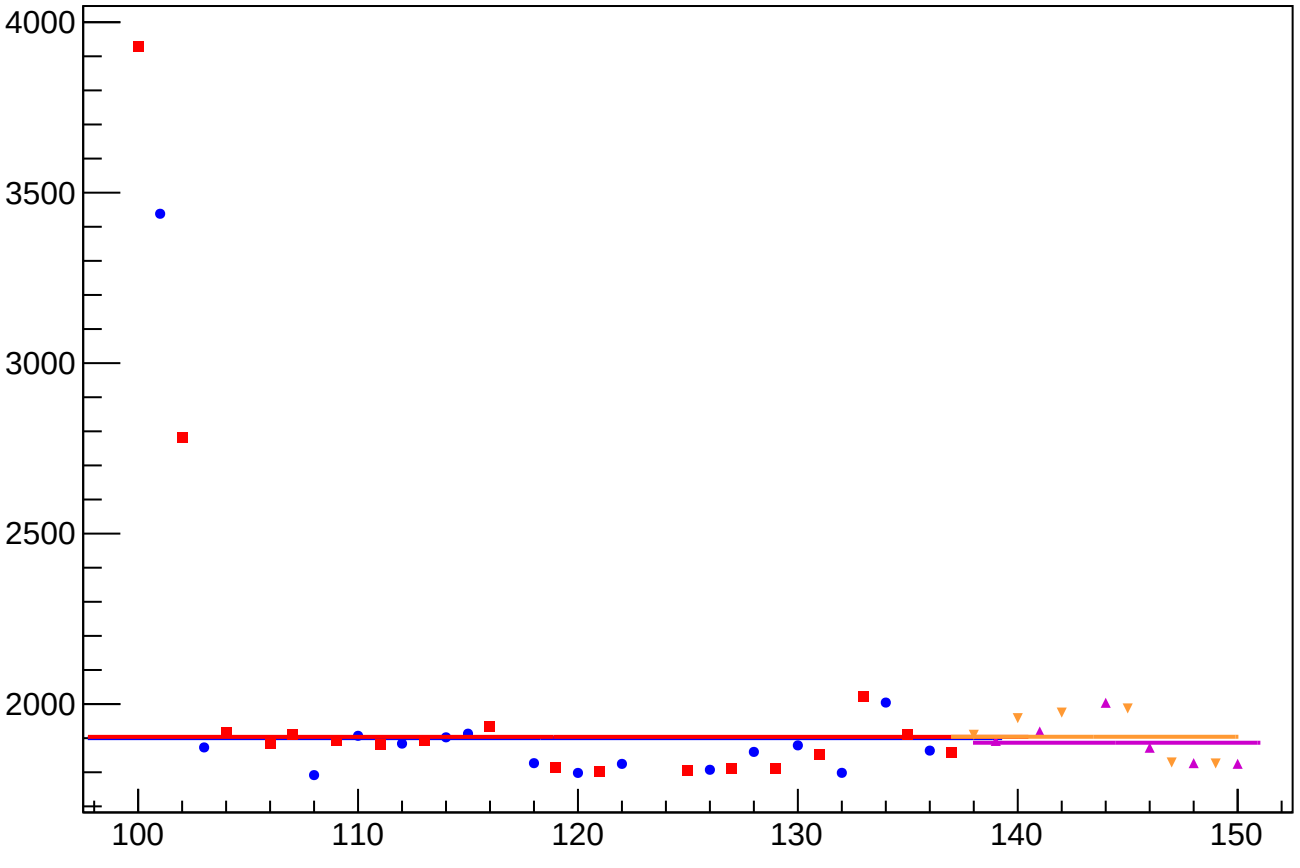
Left: 3773.195+/-605.271 $\chi^2$/NDF: 23.0/11

Right: 4501.780+/-506.663 $\chi^2$/NDF: 26.0/33

In: 4831.339+/-539.132 $\chi^2$/NDF:21.5/21

Out: 3521.288+/-560.359 $\chi^2$/NDF:25.6/23

All: 4201.595+/-388.512 $\chi^2$/NDF: 49.9/45




Right In: 1900.111+/-0.505 $\chi^2$/NDF: 278448.2/15

Left Out: 1904.116+/-0.632 $\chi^2$/NDF:11183.0/5

Right Out: 1903.827+/-0.508 $\chi^2$/NDF: 150115.8/17

Left In: 1886.622+/-0.581 $\chi^2$/NDF:10661.2/5

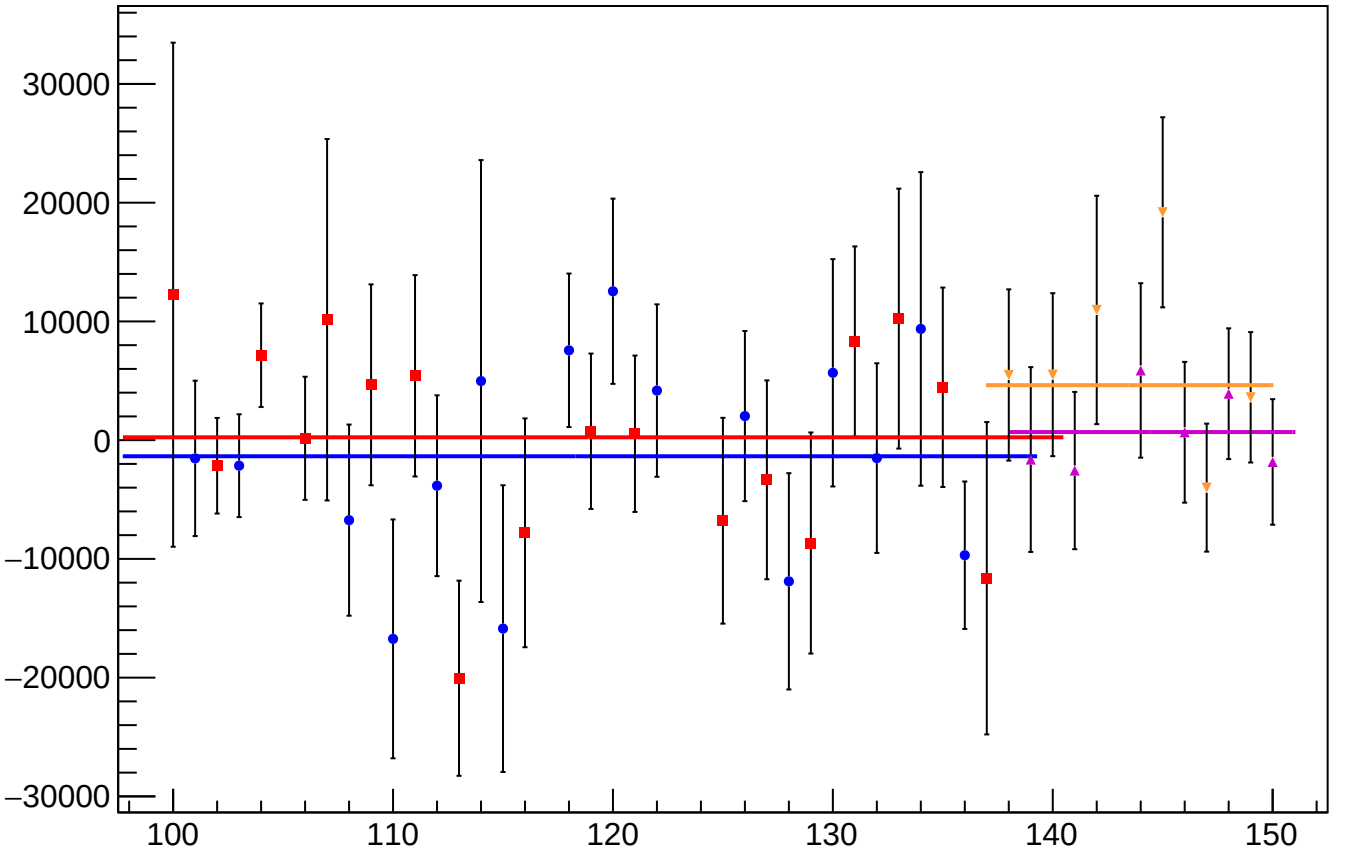
Left: 1894.636+/-0.428 $\chi^2$/NDF: 22259.0/11

Right: 1901.958+/-0.358 $\chi^2$/NDF: 428591.0/33

In: 1894.312+/-0.381 $\chi^2$/NDF:289416.3/21

Out: 1903.940+/-0.396 $\chi^2$/NDF:161299.0/23

All: 1898.943+/-0.275 $\chi^2$/NDF: 451022.1/45




Right In: -1356.615+/-1895.990 $\chi^2$/NDF: 14.7/15

Left Out: 4631.402+/-2727.044 $\chi^2$/NDF:6.4/5

Right Out: 241.153+/-1712.681 $\chi^2$/NDF: 15.7/17

Left In: 682.649+/-2539.656 $\chi^2$/NDF:1.4/5

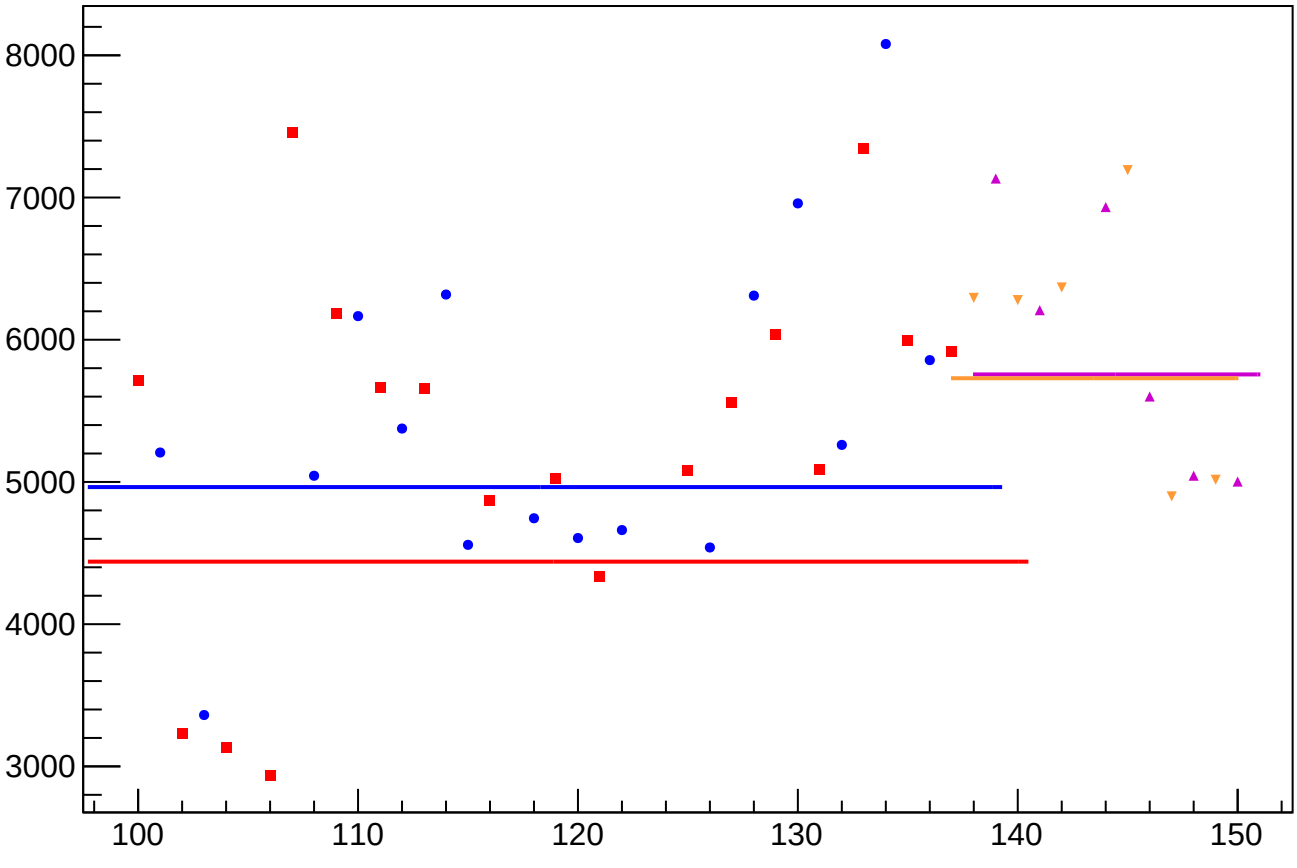
Left: 2516.707+/-1858.526 $\chi^2$/NDF: 8.9/11

Right: -476.778+/-1270.927 $\chi^2$/NDF: 30.8/33

In: -626.802+/-1519.301 $\chi^2$/NDF:16.5/21

Out: 1482.981+/-1450.368 $\chi^2$/NDF:24.0/23

All: 477.036+/-1049.088 $\chi^2$/NDF: 41.5/45




Right In: 4963.998+/-1.341 $\chi^2$/NDF: 627377.0/15

Left Out: 5729.289+/-1.928 $\chi^2$/NDF:182075.1/5

Right Out: 4439.675+/-1.211 $\chi^2$/NDF: 1158510.1/17

Left In: 5756.097+/-1.796 $\chi^2$/NDF:198696.4/5

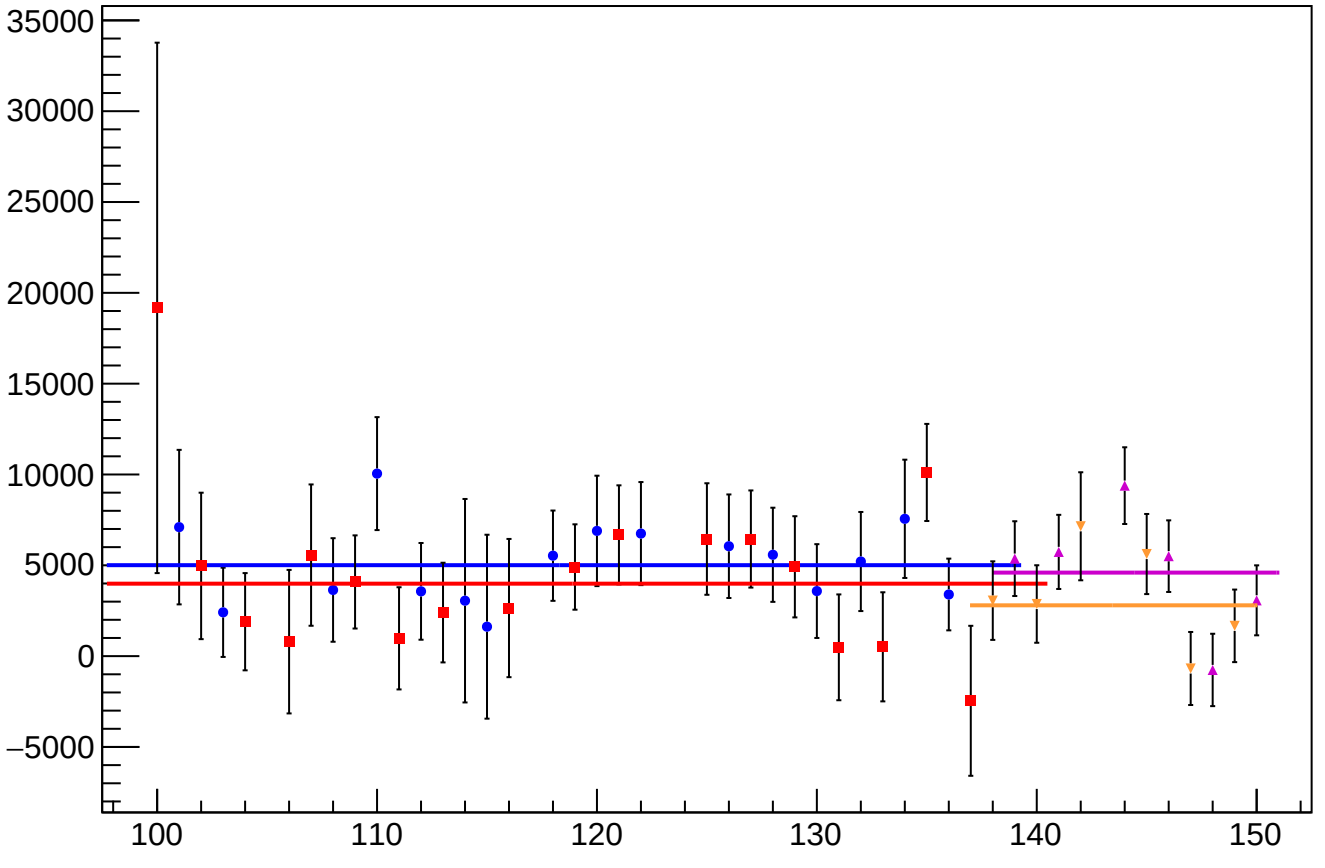
Left: 5743.646+/-1.314 $\chi^2$/NDF: 380875.0/11

Right: 4675.271+/-0.899 $\chi^2$/NDF: 1870112.9/33

In: 5247.475+/-1.074 $\chi^2$/NDF:951000.0/21

Out: 4804.456+/-1.026 $\chi^2$/NDF:1661337.1/23

All: 5015.687+/-0.742 $\chi^2$/NDF: 2701309.5/45




Right In: 5007.314+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 2797.516+/-894.270 $\chi^2$/NDF:7.1/5

Right Out: 3989.192+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 4598.009+/-822.226 $\chi^2$/NDF:13.7/5

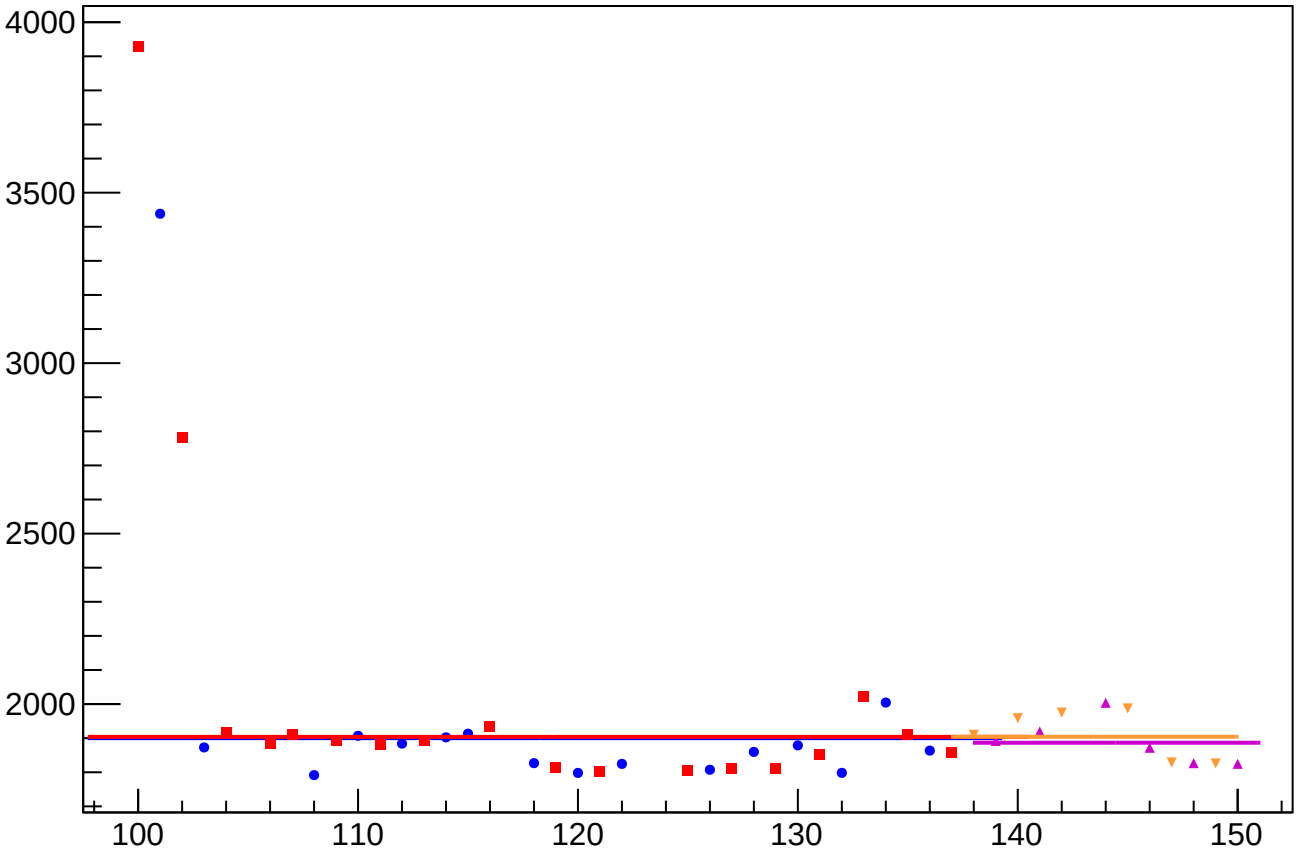
Left: 3773.199+/-605.271 $\chi^2$/NDF: 23.0/11

Right: 4501.779+/-506.663 $\chi^2$/NDF: 26.0/33

In: 4831.337+/-539.133 $\chi^2$/NDF:21.5/21

Out: 3521.292+/-560.359 $\chi^2$/NDF:25.6/23

All: 4201.596+/-388.512 $\chi^2$/NDF: 49.9/45




Right In: 1900.111+/-0.505 $\chi^2$/NDF: 278448.5/15

Left Out: 1904.117+/-0.632 $\chi^2$/NDF:11183.2/5

Right Out: 1903.826+/-0.508 $\chi^2$/NDF: 150115.1/17

Left In: 1886.623+/-0.581 $\chi^2$/NDF:10661.3/5

Left: 1894.637+/-0.428 $\chi^2$/NDF: 22259.3/11

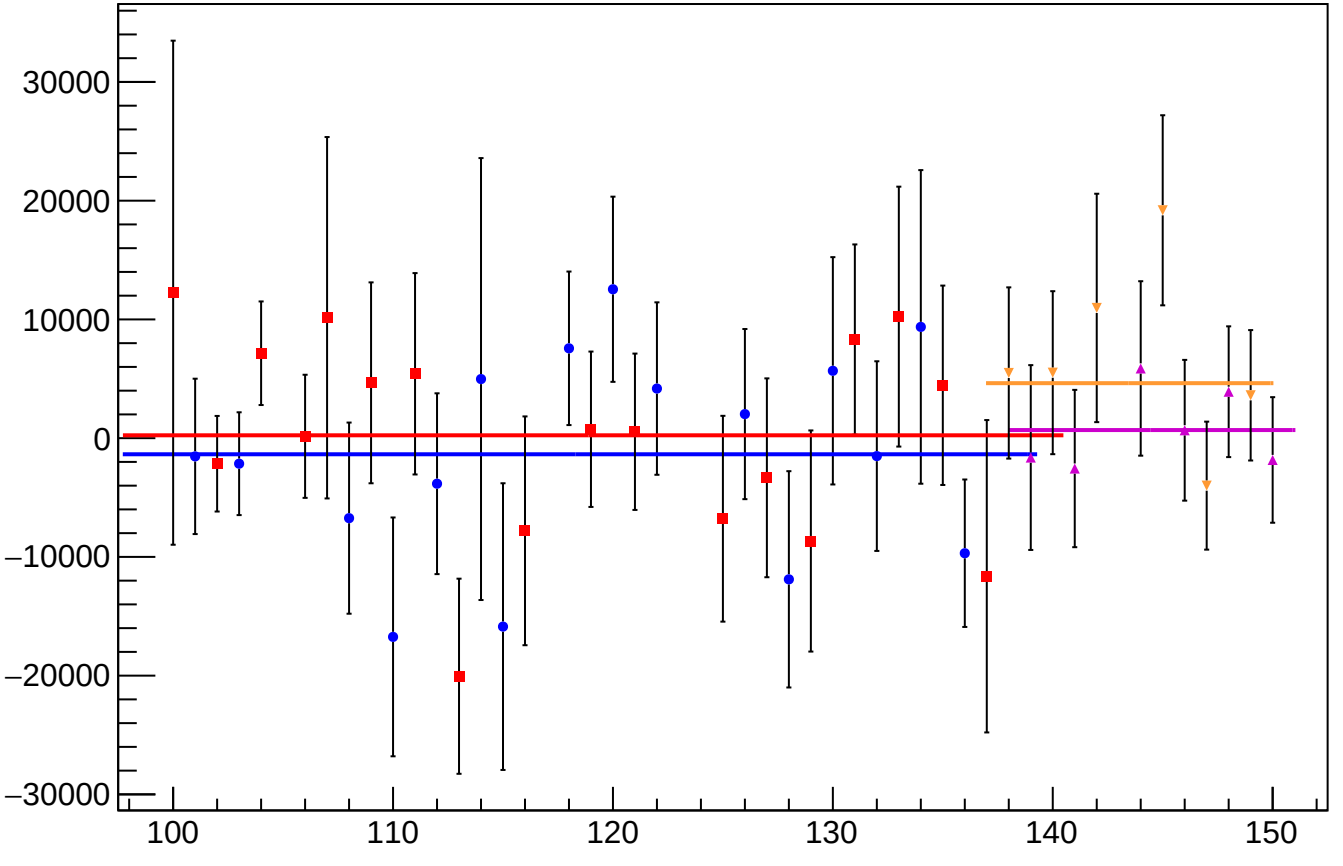
Right: 1901.958+/-0.358 $\chi^2$/NDF: 428590.5/33

In: 1894.312+/-0.381 $\chi^2$/NDF:289416.6/21

Out: 1903.940+/-0.396 $\chi^2$/NDF:161298.5/23

All: 1898.943+/-0.275 $\chi^2$/NDF: 451021.9/45

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1356.604+/-1895.985 $\chi^2$/NDF: 14.7/15

Left Out: 4631.404+/-2727.048 $\chi^2$/NDF:6.4/5

Right Out: 241.155+/-1712.677 $\chi^2$/NDF: 15.7/17

Left In: 682.647+/-2539.660 $\chi^2$/NDF:1.4/5

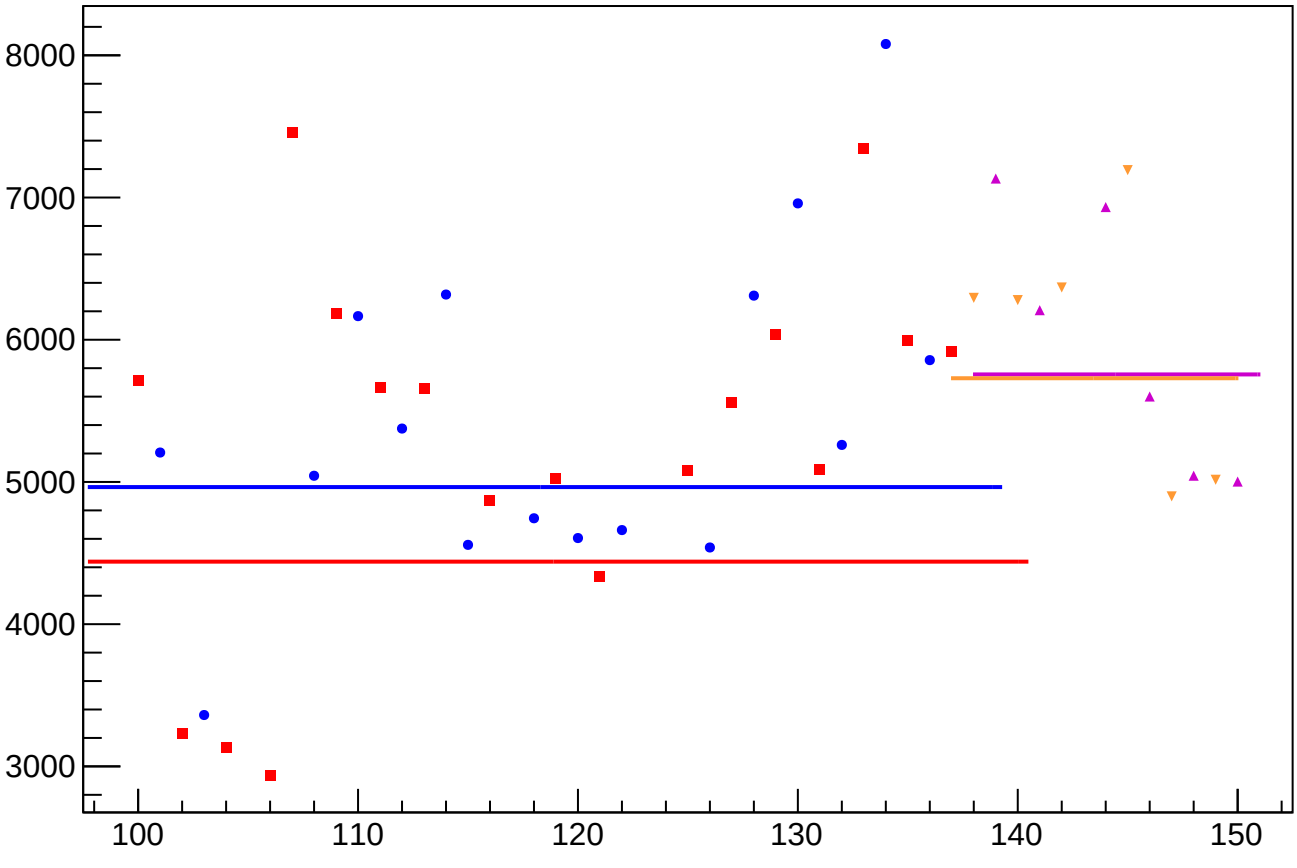
Left: 2516.707+/-1858.529 $\chi^2$/NDF: 8.9/11

Right: -476.773+/-1270.924 $\chi^2$/NDF: 30.8/33

In: -626.799+/-1519.300 $\chi^2$/NDF:16.5/21

Out: 1482.976+/-1450.366 $\chi^2$/NDF:24.0/23

All: 477.035+/-1049.087 $\chi^2$/NDF: 41.5/45




Right In: 4963.985+/-1.341 $\chi^2$/NDF: 627379.5/15

Left Out: 5729.297+/-1.928 $\chi^2$/NDF:182076.5/5

Right Out: 4439.663+/-1.211 $\chi^2$/NDF: 1158509.7/17

Left In: 5756.105+/-1.796 $\chi^2$/NDF:198697.4/5

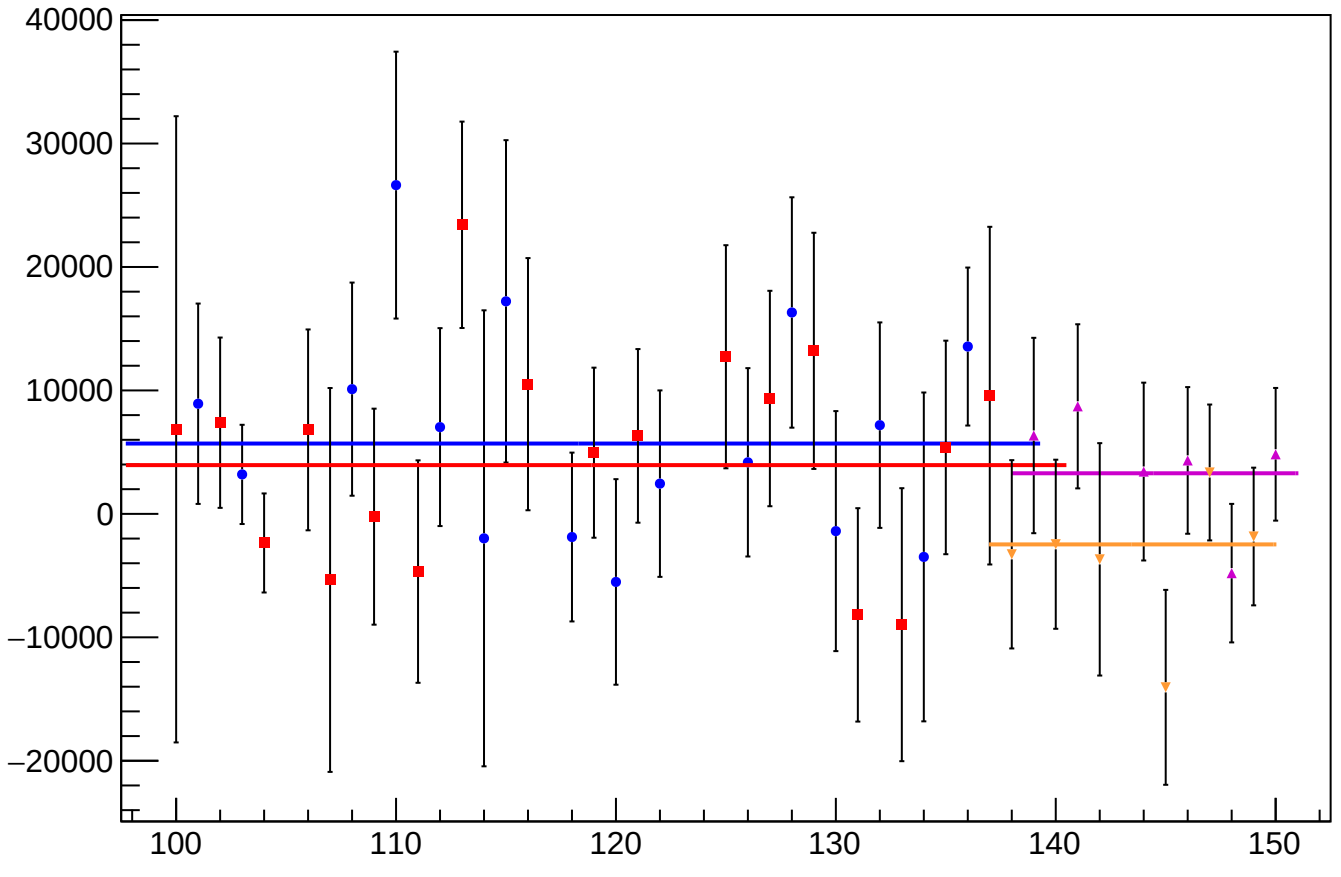
Left: 5743.654+/-1.314 $\chi^2$/NDF: 380877.4/11

Right: 4675.259+/-0.899 $\chi^2$/NDF: 1870114.9/33

In: 5247.468+/-1.074 $\chi^2$/NDF:951010.2/21

Out: 4804.448+/-1.026 $\chi^2$/NDF:1661347.5/23

All: 5015.680+/-0.742 $\chi^2$/NDF: 2701330.8/45




Right In: 5697.218+/-1959.214 $\chi^2$/NDF: 12.6/15

Left Out: -2473.054+/-2762.750 $\chi^2$/NDF:3.3/5

Right Out: 3949.394+/-1920.582 $\chi^2$/NDF: 16.1/17

Left In: 3288.831+/-2559.826 $\chi^2$/NDF:3.0/5

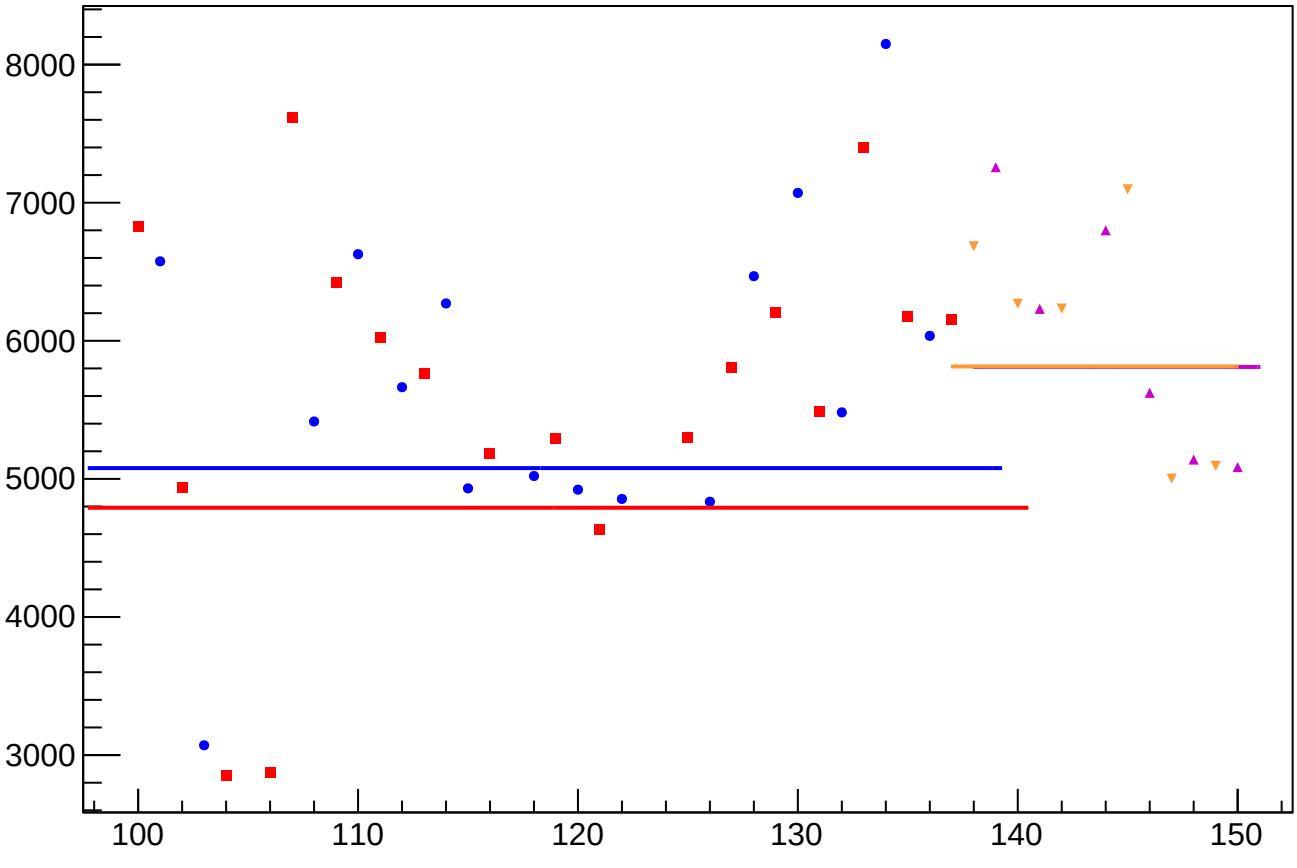
Left: 627.243+/-1877.716 $\chi^2$/NDF: 8.7/11

Right: 4805.905+/-1371.511 $\chi^2$/NDF: 29.2/33

In: 4807.560+/-1555.818 $\chi^2$/NDF:16.2/21

Out: 1856.895+/-1576.972 $\chi^2$/NDF:23.1/23

All: 3352.150+/-1107.533 $\chi^2$/NDF: 41.1/45




Right In: 5078.157+/-1.385 $\chi^2$/NDF: 919209.4/15

Left Out: 5814.183+/-1.954 $\chi^2$/NDF:168433.6/5

Right Out: 4791.154+/-1.331 $\chi^2$/NDF: 1162455.3/17

Left In: 5810.664+/-1.810 $\chi^2$/NDF:179550.4/5

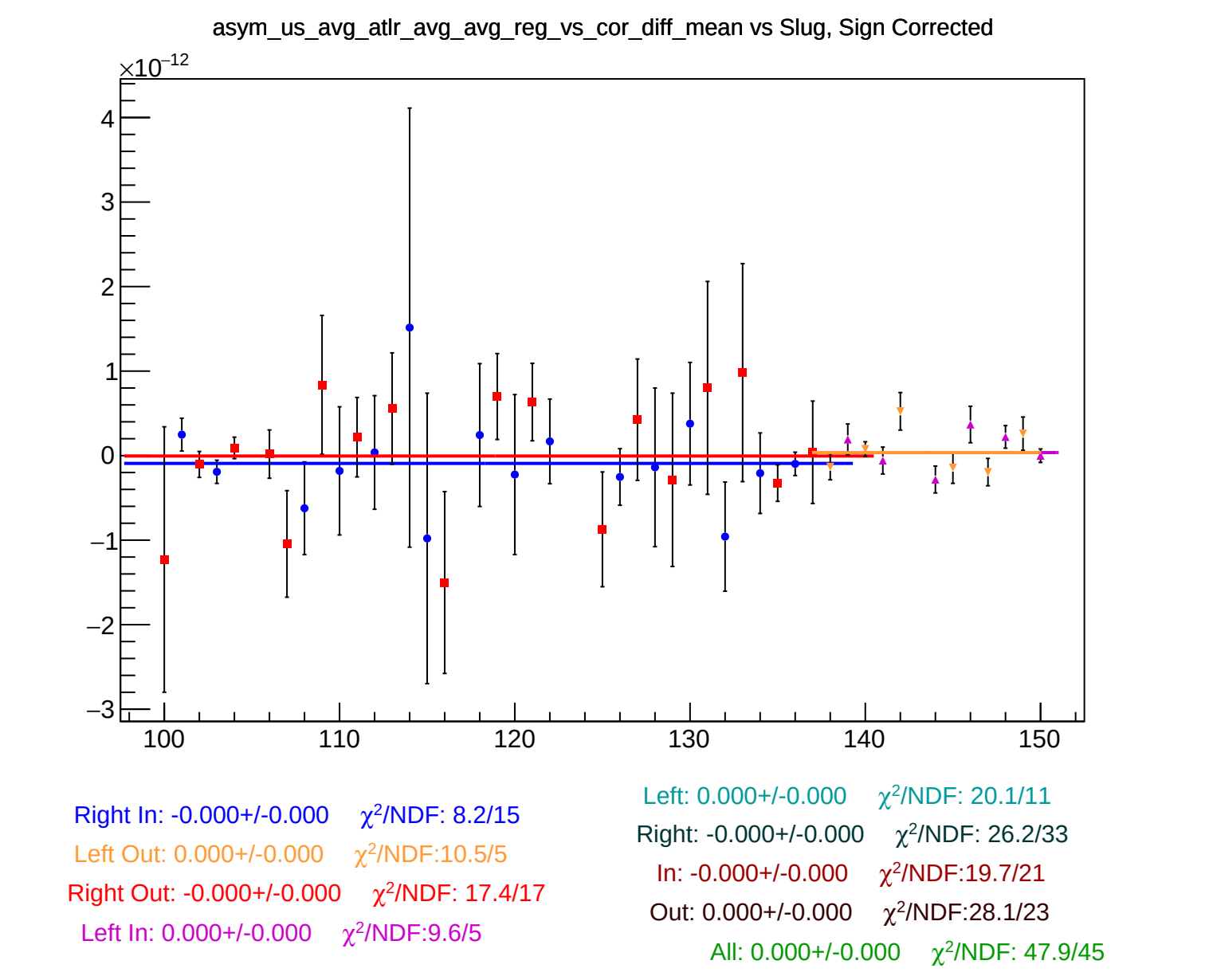
Left: 5812.290+/-1.328 $\chi^2$/NDF: 347985.7/11

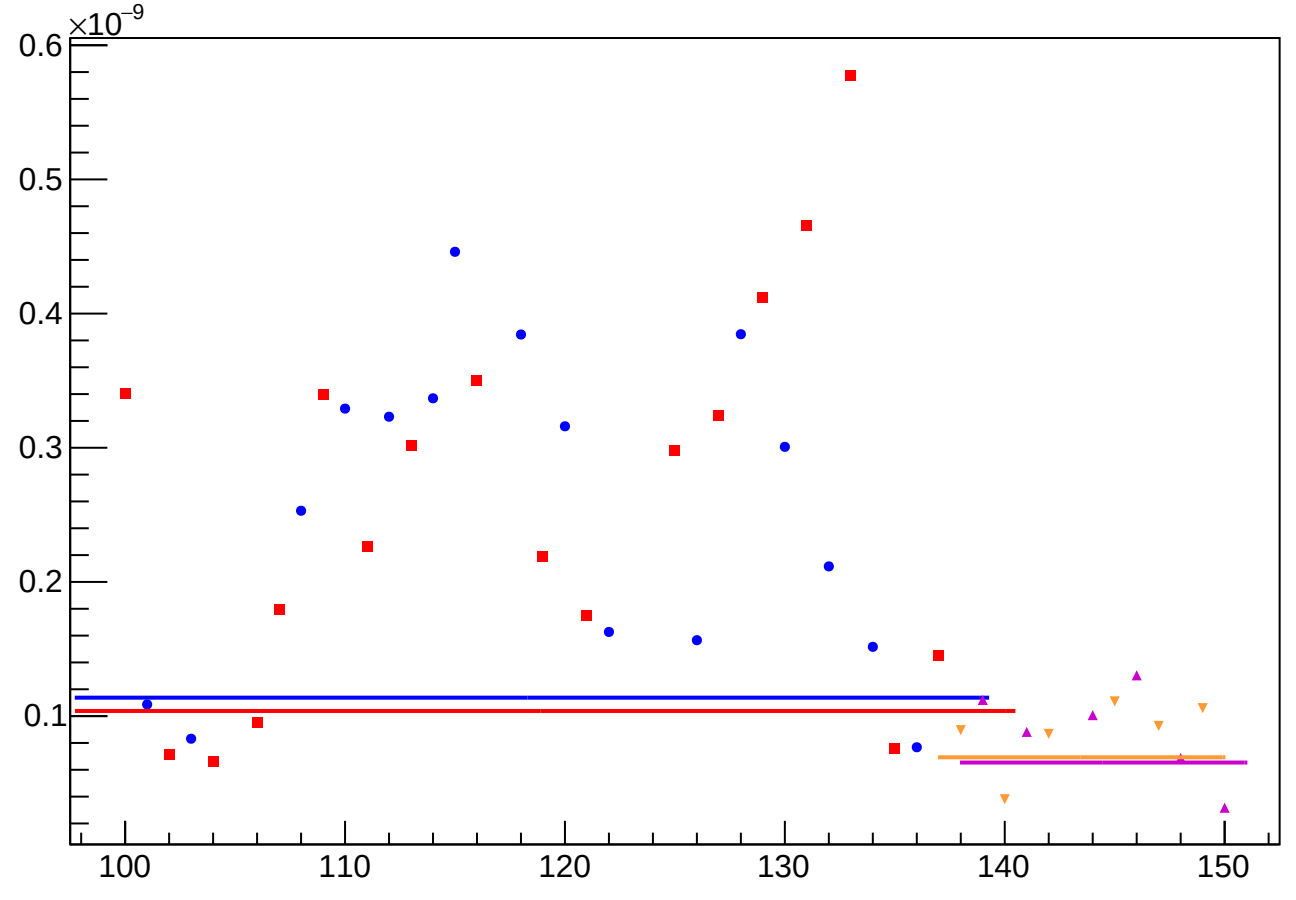
Right: 4928.883+/-0.960 $\chi^2$/NDF: 2103987.6/33

In: 5348.739+/-1.100 $\chi^2$/NDF:1202034.3/21

Out: 5115.389+/-1.100 $\chi^2$/NDF:1518209.0/23

All: 5232.030+/-0.778 $\chi^2$/NDF: 2742746.0/45


asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
−3
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 8.2/15
Left Out: 0.000+/-0.000 χ²/NDF:10.5/5
Right Out: -0.000+/-0.000 χ²/NDF: 17.4/17
Left In: 0.000+/-0.000 χ²/NDF:9.6/5
Left: 0.000+/-0.000 χ²/NDF: 20.1/11
Right: -0.000+/-0.000 χ²/NDF: 26.2/33
In: -0.000+/-0.000 χ²/NDF:19.7/21
Out: 0.000+/-0.000 χ²/NDF:28.1/23
All: 0.000+/-0.000 χ²/NDF: 47.9/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1524807.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:524560.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2087534.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:808075.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1337472.8/11

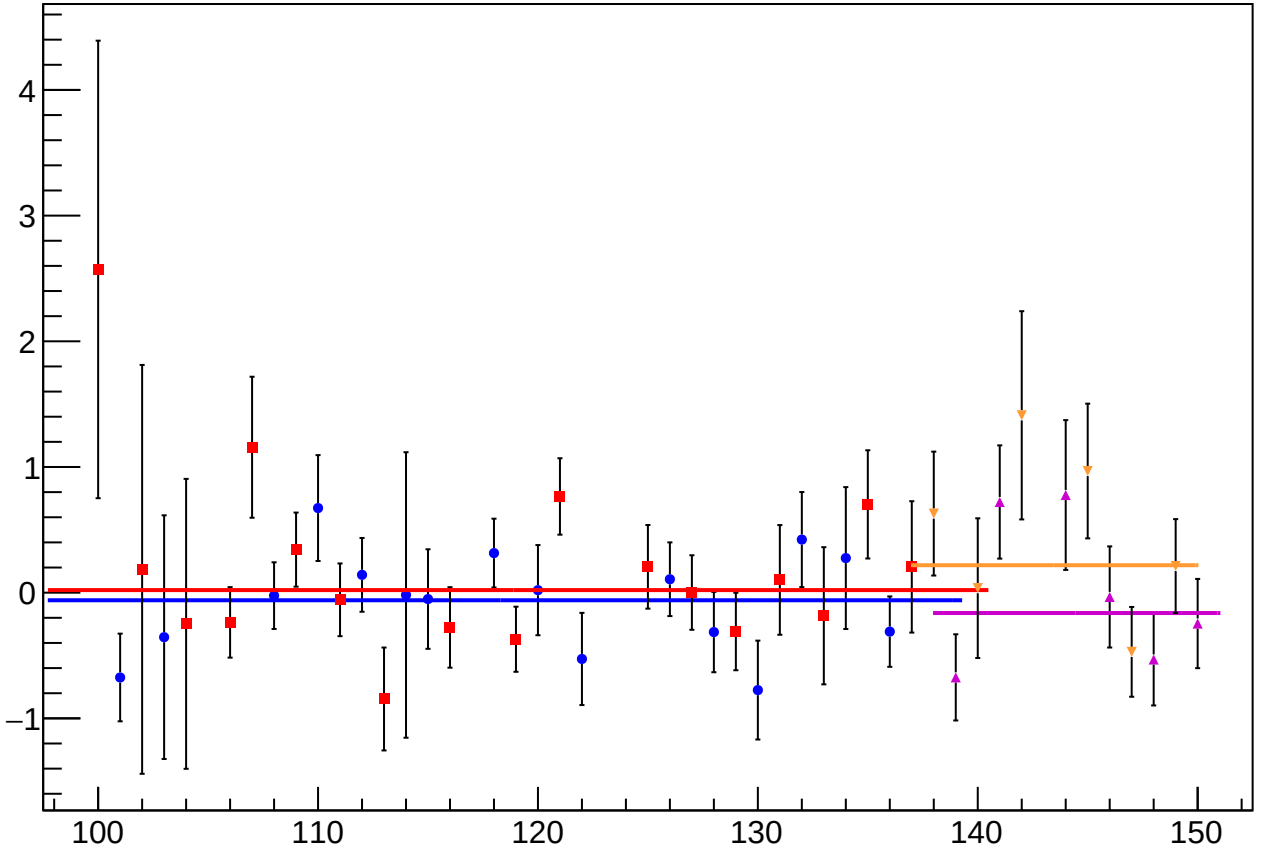
Right: 0.000+/-0.000 $\chi^2$/NDF: 3628704.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2854294.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2866007.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5720646.5/45

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: 0.218+/-0.191 $\chi^2$/NDF:8.6/5

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.162+/-0.163 $\chi^2$/NDF:9.7/5

Left: -0.002+/-0.124 $\chi^2$/NDF: 20.6/11

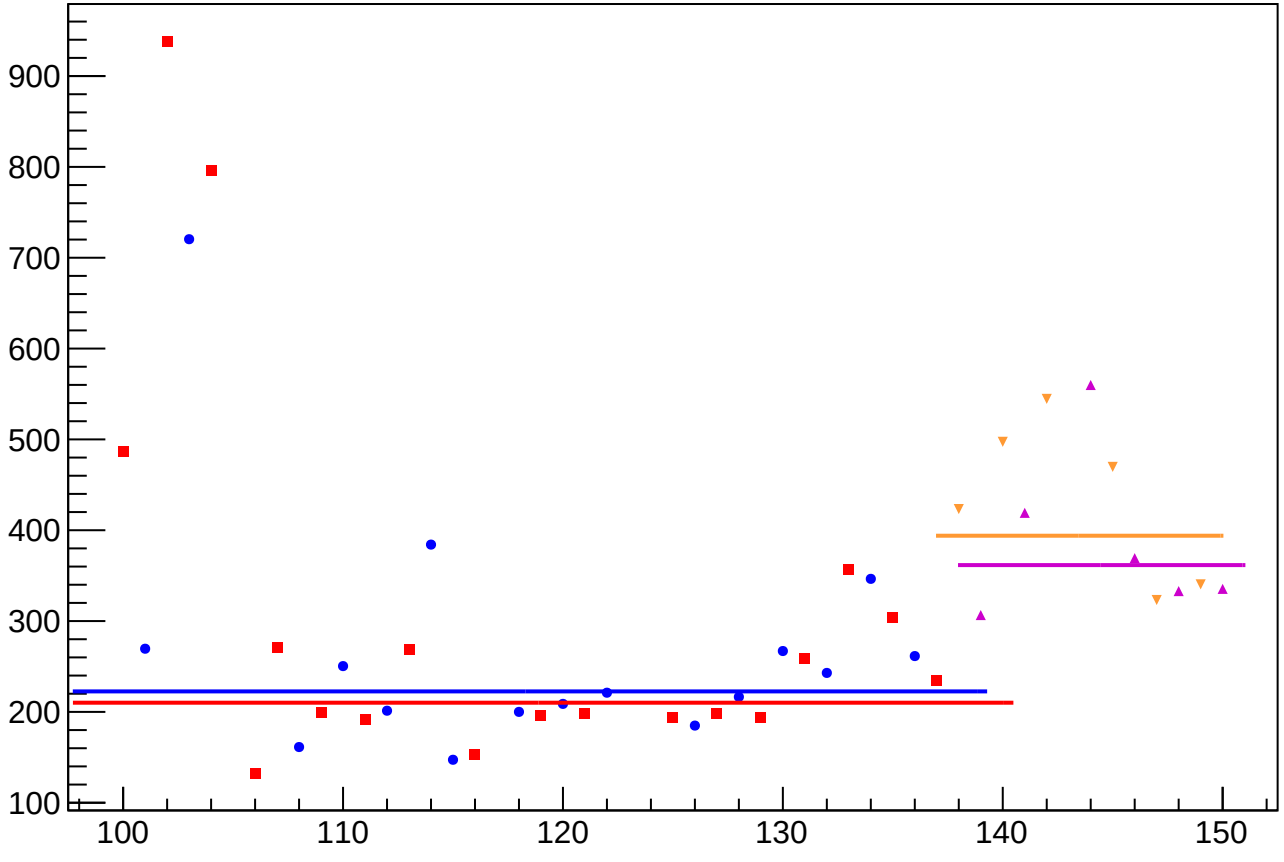
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.084+/-0.078 $\chi^2$/NDF:27.3/21

Out: 0.055+/-0.080 $\chi^2$/NDF:35.6/23

All: -0.016+/-0.056 $\chi^2$/NDF: 64.5/45

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.569+/-0.063 $\chi^2$/NDF: 1018774.9/15

Left Out: 393.958+/-0.135 $\chi^2$/NDF:302136.8/5

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 361.619+/-0.115 $\chi^2$/NDF:329375.9/5

Left: 375.175+/-0.088 $\chi^2$/NDF: 664690.6/11

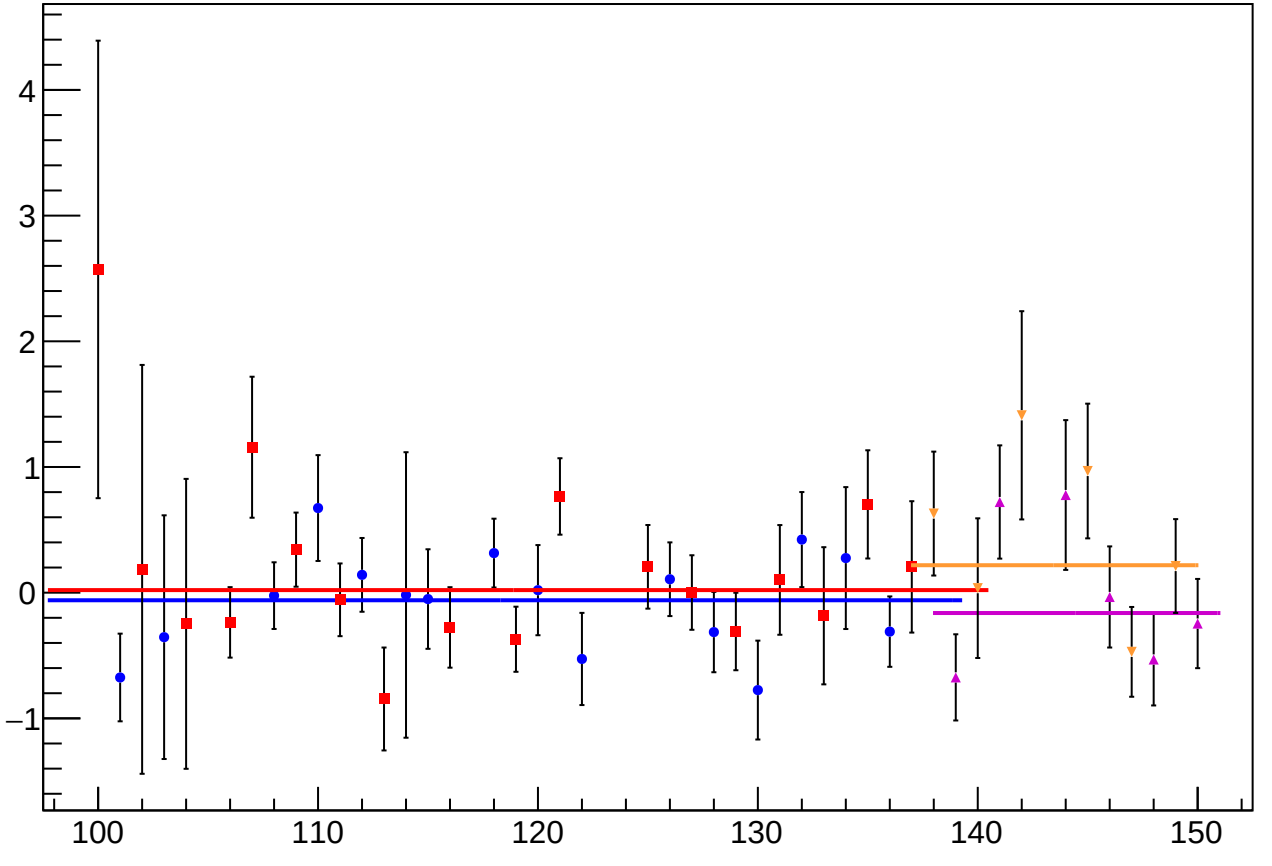
Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 254.445+/-0.055 $\chi^2$/NDF:2475953.0/21

Out: 241.872+/-0.056 $\chi^2$/NDF:3377778.1/23

All: 248.293+/-0.039 $\chi^2$/NDF: 5879265.5/45

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: 0.218+/-0.191 $\chi^2$/NDF:8.6/5

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.162+/-0.163 $\chi^2$/NDF:9.7/5

Left: -0.002+/-0.124 $\chi^2$/NDF: 20.6/11

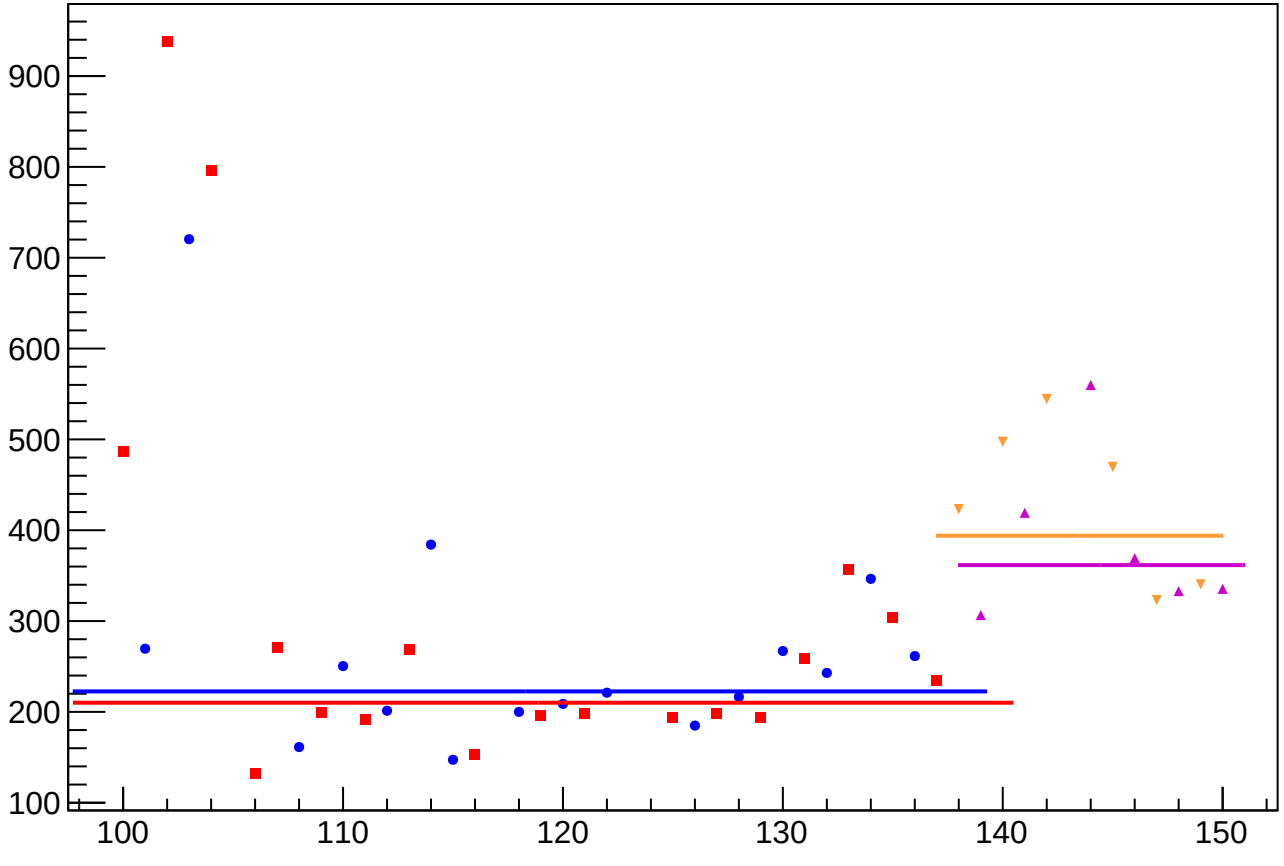
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.084+/-0.078 $\chi^2$/NDF:27.3/21

Out: 0.055+/-0.080 $\chi^2$/NDF:35.6/23

All: -0.016+/-0.056 $\chi^2$/NDF: 64.5/45

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.569+/-0.063 $\chi^2$/NDF: 1018774.9/15

Left Out: 393.958+/-0.135 $\chi^2$/NDF:302136.8/5

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 361.619+/-0.115 $\chi^2$/NDF:329375.9/5

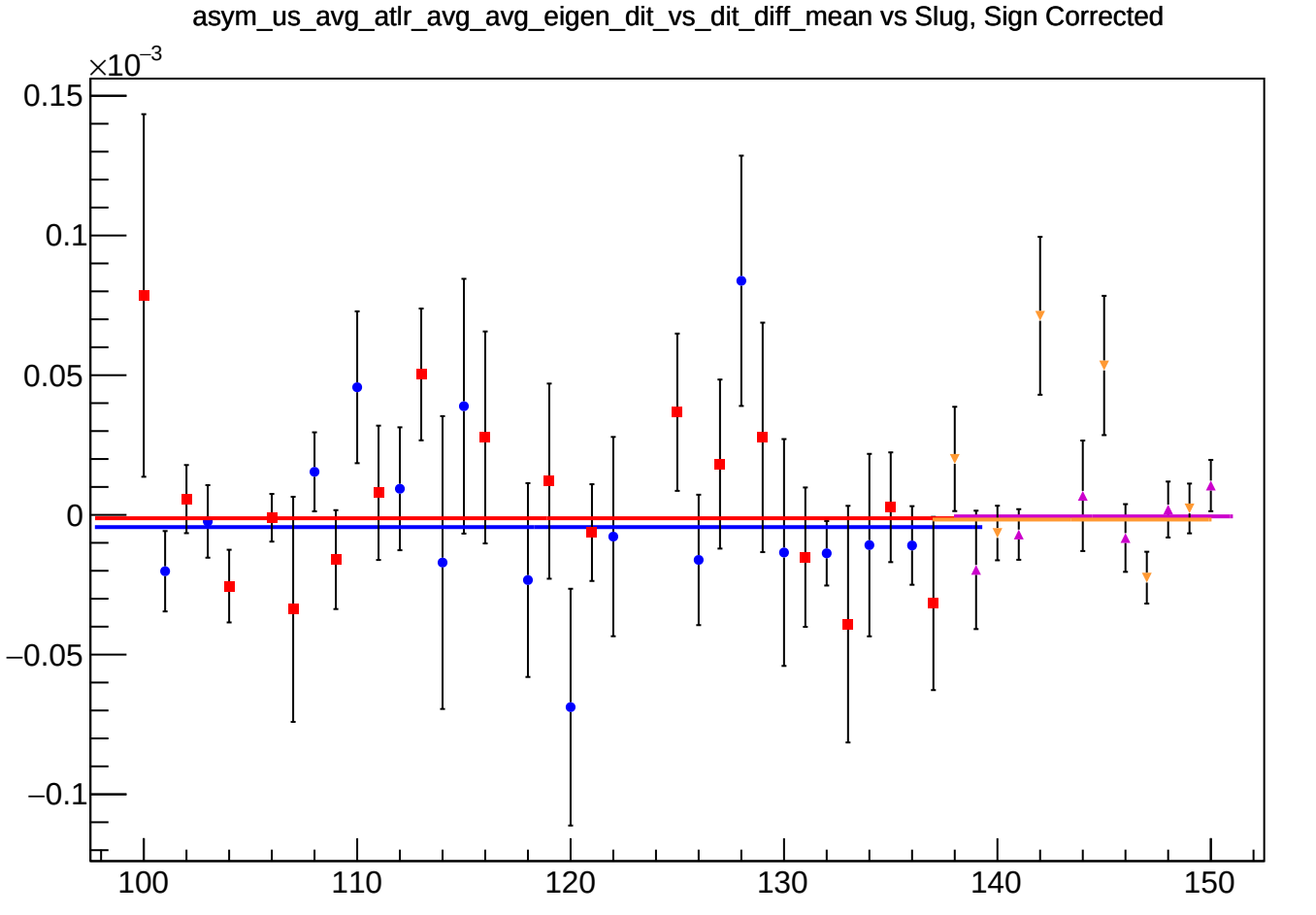
Left: 375.175+/-0.088 $\chi^2$/NDF: 664690.6/11

Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 254.445+/-0.055 $\chi^2$/NDF:2475953.0/21

Out: 241.872+/-0.056 $\chi^2$/NDF:3377778.1/23

All: 248.293+/-0.039 $\chi^2$/NDF: 5879265.5/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.4/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.4/5

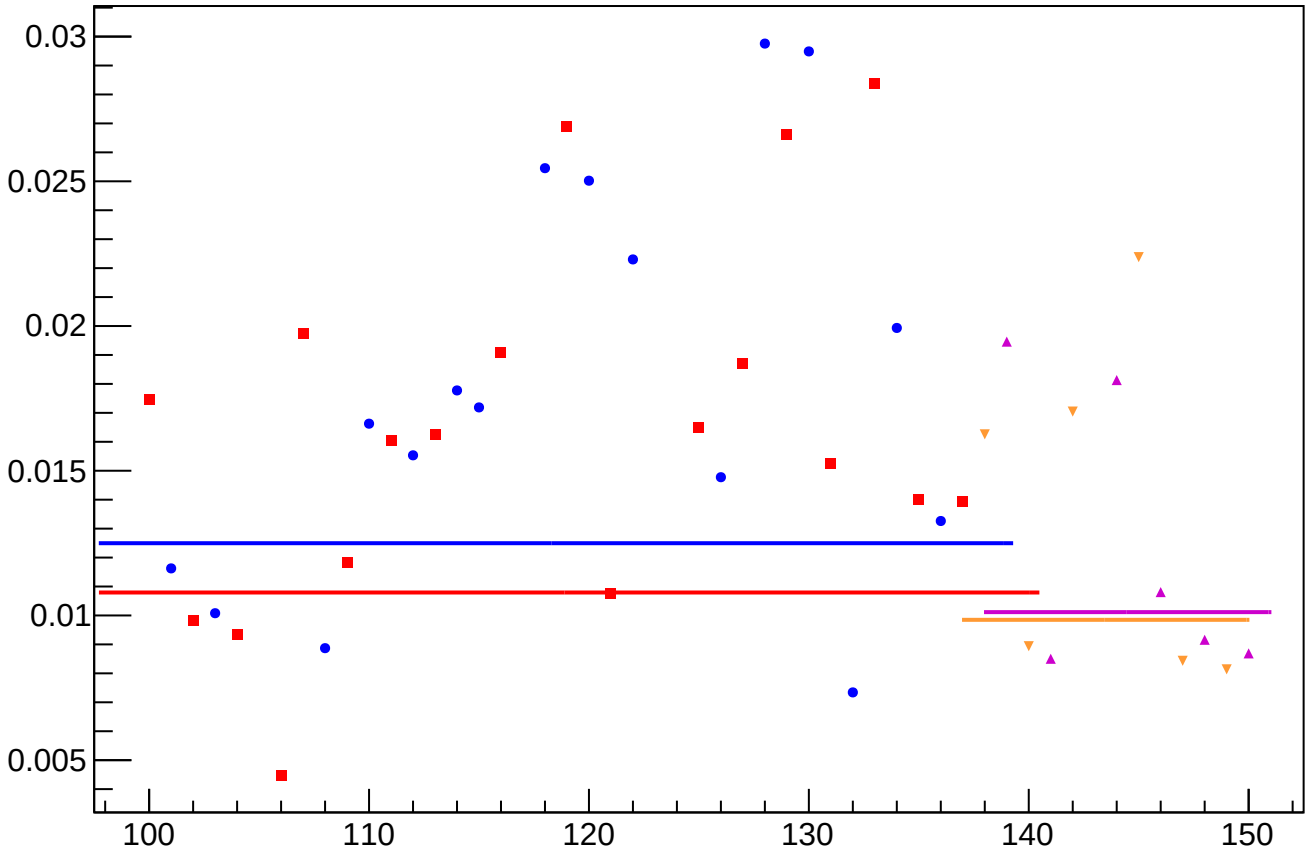
Left: -0.000+/-0.000 $\chi^2$/NDF: 21.8/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:19.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 55.0/45




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2114968.1/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:1008739.6/5

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 2987826.3/17

Left In: 0.010+/-0.000 $\chi^2$/NDF:854277.4/5

Left: 0.010+/-0.000 $\chi^2$/NDF: 1866052.0/11

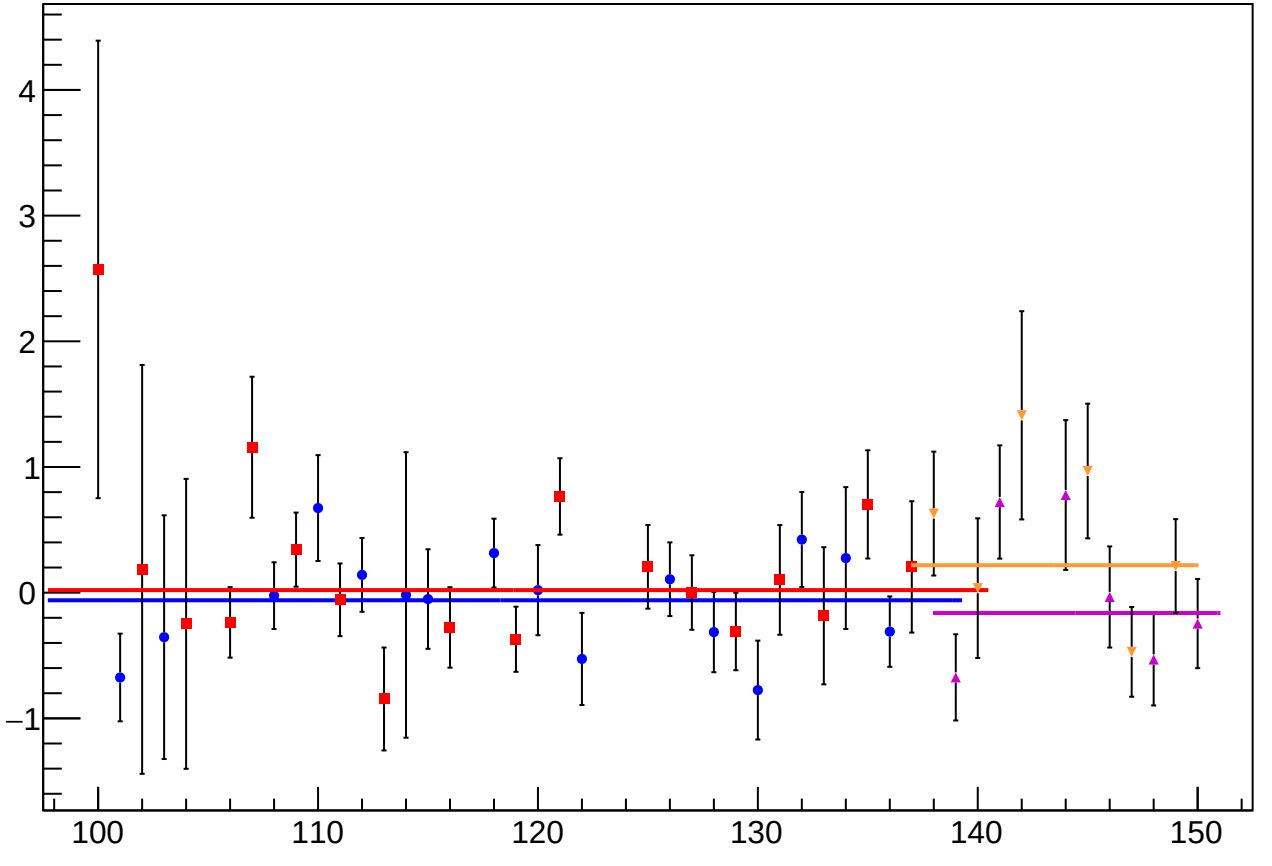
Right: 0.012+/-0.000 $\chi^2$/NDF: 5226474.2/33

In: 0.011+/-0.000 $\chi^2$/NDF:3206551.2/21

Out: 0.010+/-0.000 $\chi^2$/NDF:4035537.7/23

All: 0.011+/-0.000 $\chi^2$/NDF: 7304048.4/45

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: 0.218+/-0.191 $\chi^2$/NDF:8.6/5

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.162+/-0.163 $\chi^2$/NDF:9.7/5

Left: -0.002+/-0.124 $\chi^2$/NDF: 20.6/11

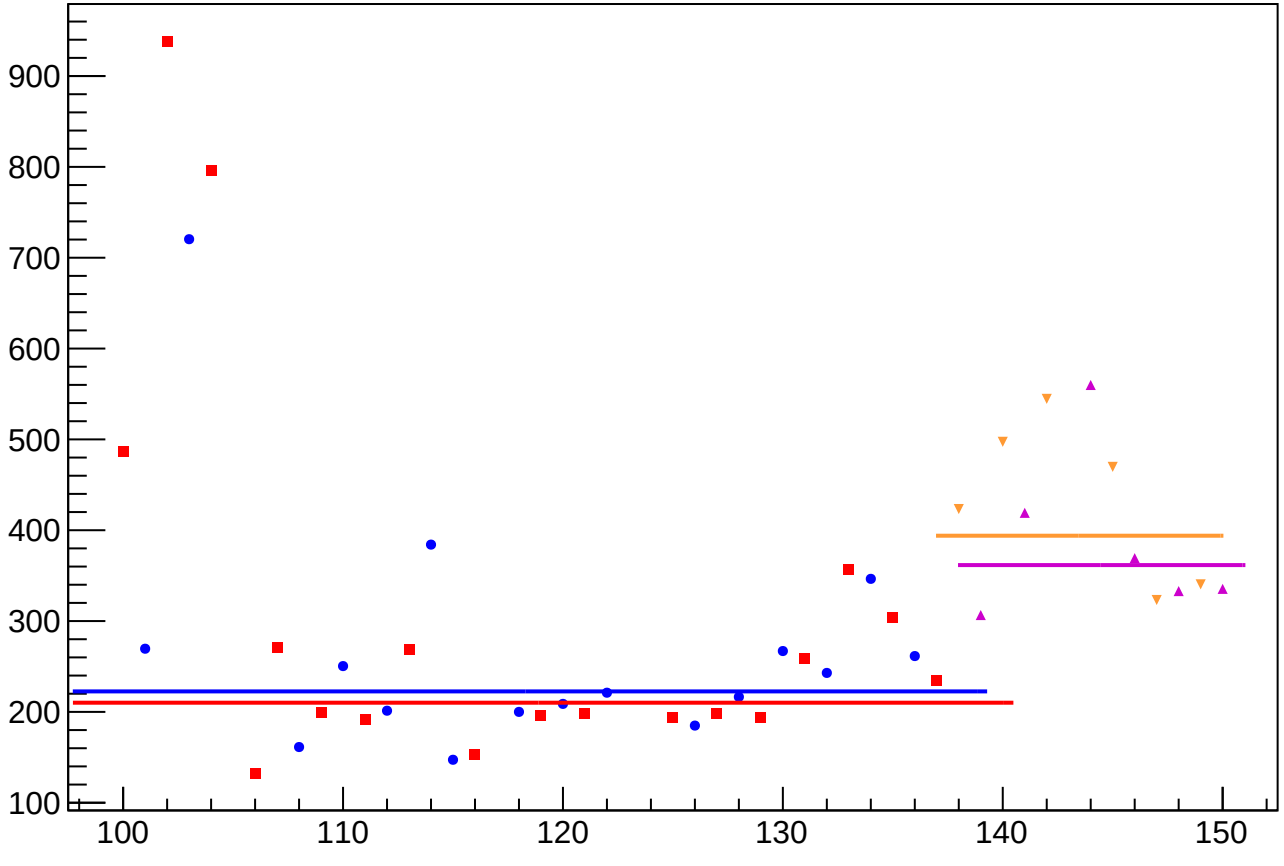
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.084+/-0.078 $\chi^2$/NDF:27.3/21

Out: 0.055+/-0.080 $\chi^2$/NDF:35.6/23

All: -0.016+/-0.056 $\chi^2$/NDF: 64.5/45

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.567+/-0.063 $\chi^2$/NDF: 1018760.3/15

Left Out: 393.963+/-0.135 $\chi^2$/NDF:302136.9/5

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 361.624+/-0.115 $\chi^2$/NDF:329367.4/5

Left: 375.180+/-0.088 $\chi^2$/NDF: 664679.2/11

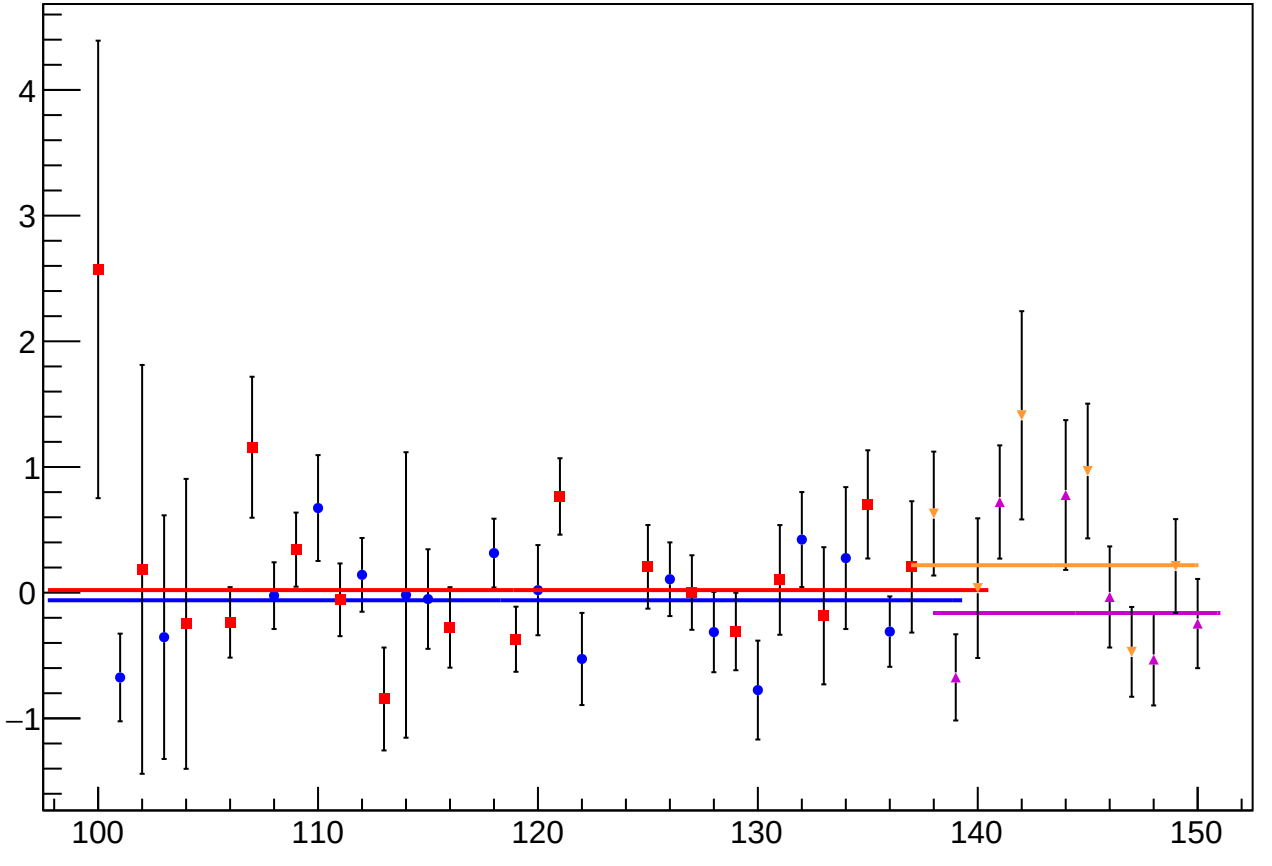
Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

In: 254.444+/-0.055 $\chi^2$/NDF:2476024.0/21

Out: 241.869+/-0.056 $\chi^2$/NDF:3377852.9/23

All: 248.291+/-0.039 $\chi^2$/NDF: 5879417.1/45

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: 0.218+/-0.191 $\chi^2$/NDF:8.6/5

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.162+/-0.163 $\chi^2$/NDF:9.7/5

Left: -0.002+/-0.124 $\chi^2$/NDF: 20.6/11

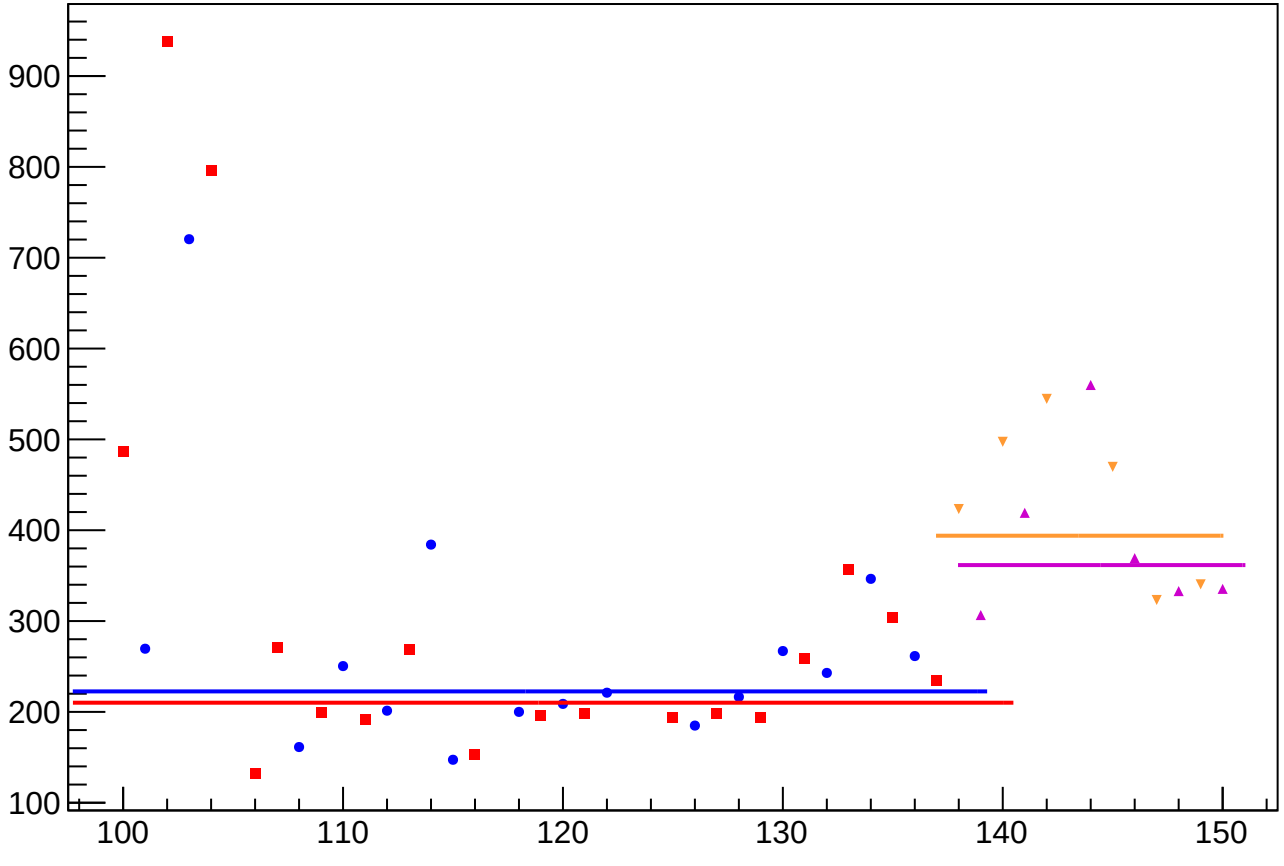
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.084+/-0.078 $\chi^2$/NDF:27.3/21

Out: 0.055+/-0.080 $\chi^2$/NDF:35.6/23

All: -0.016+/-0.056 $\chi^2$/NDF: 64.5/45

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.567+/-0.063 $\chi^2$/NDF: 1018760.3/15

Left Out: 393.963+/-0.135 $\chi^2$/NDF:302136.9/5

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 361.624+/-0.115 $\chi^2$/NDF:329367.4/5

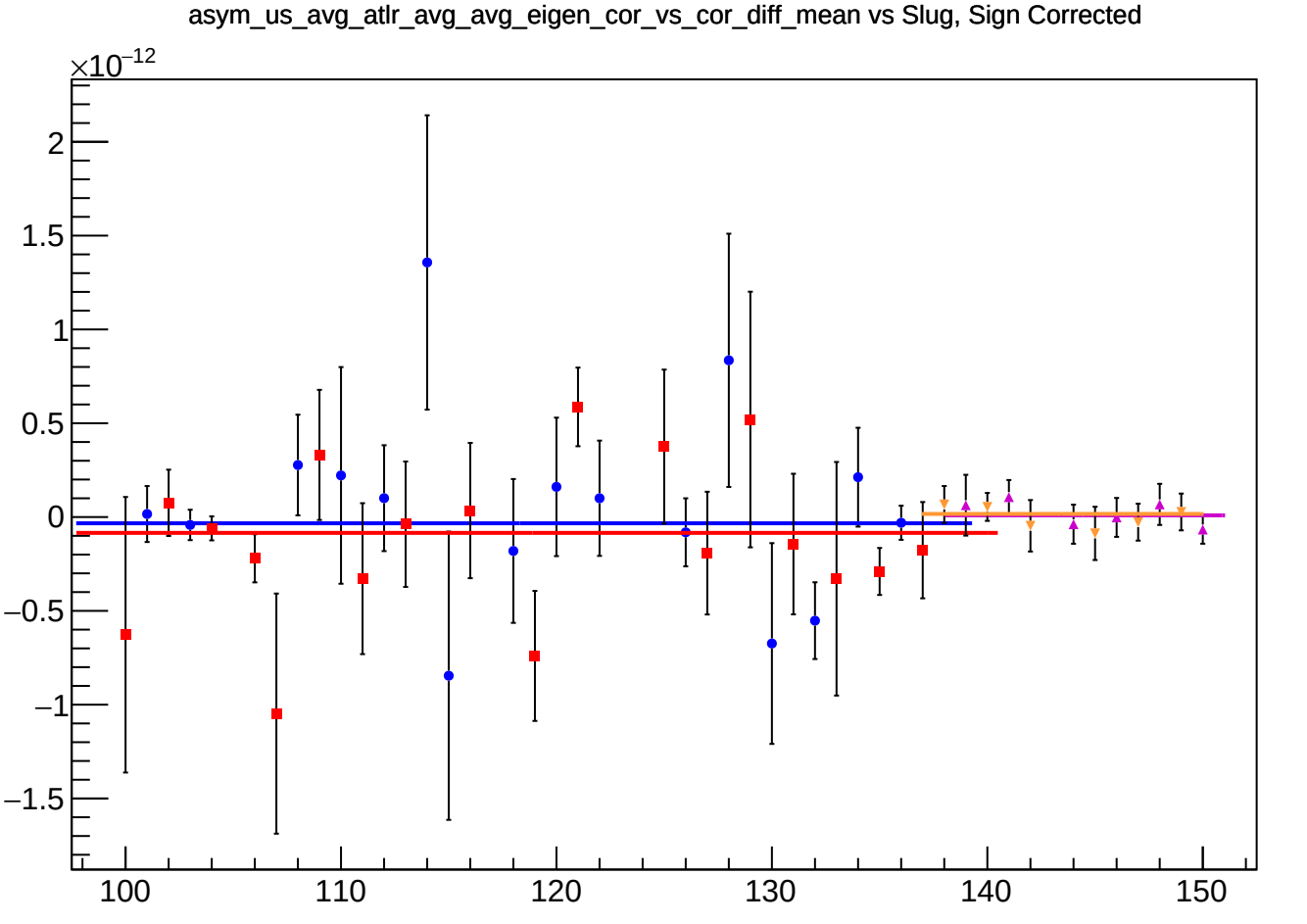
Left: 375.180+/-0.088 $\chi^2$/NDF: 664679.2/11

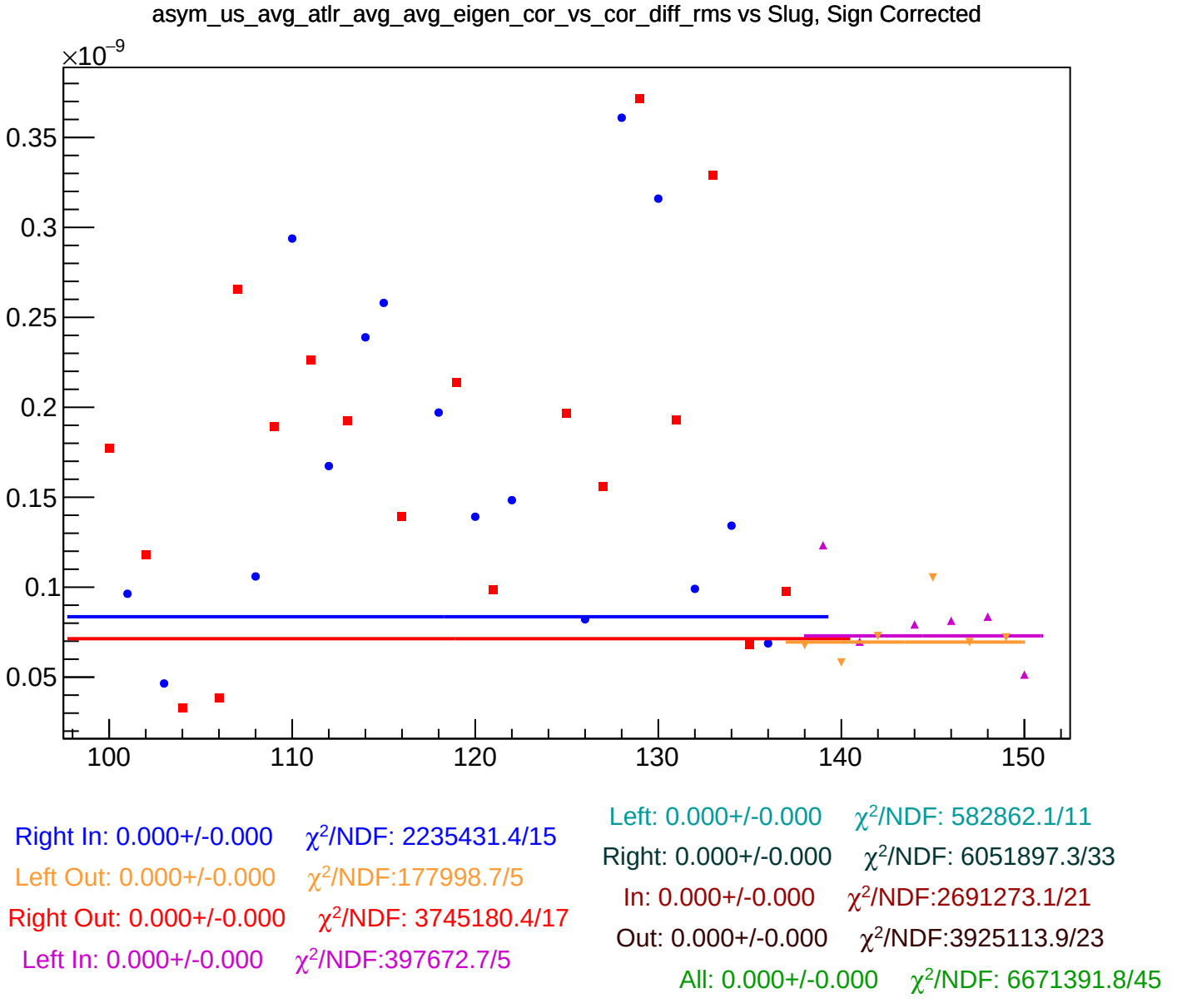
Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

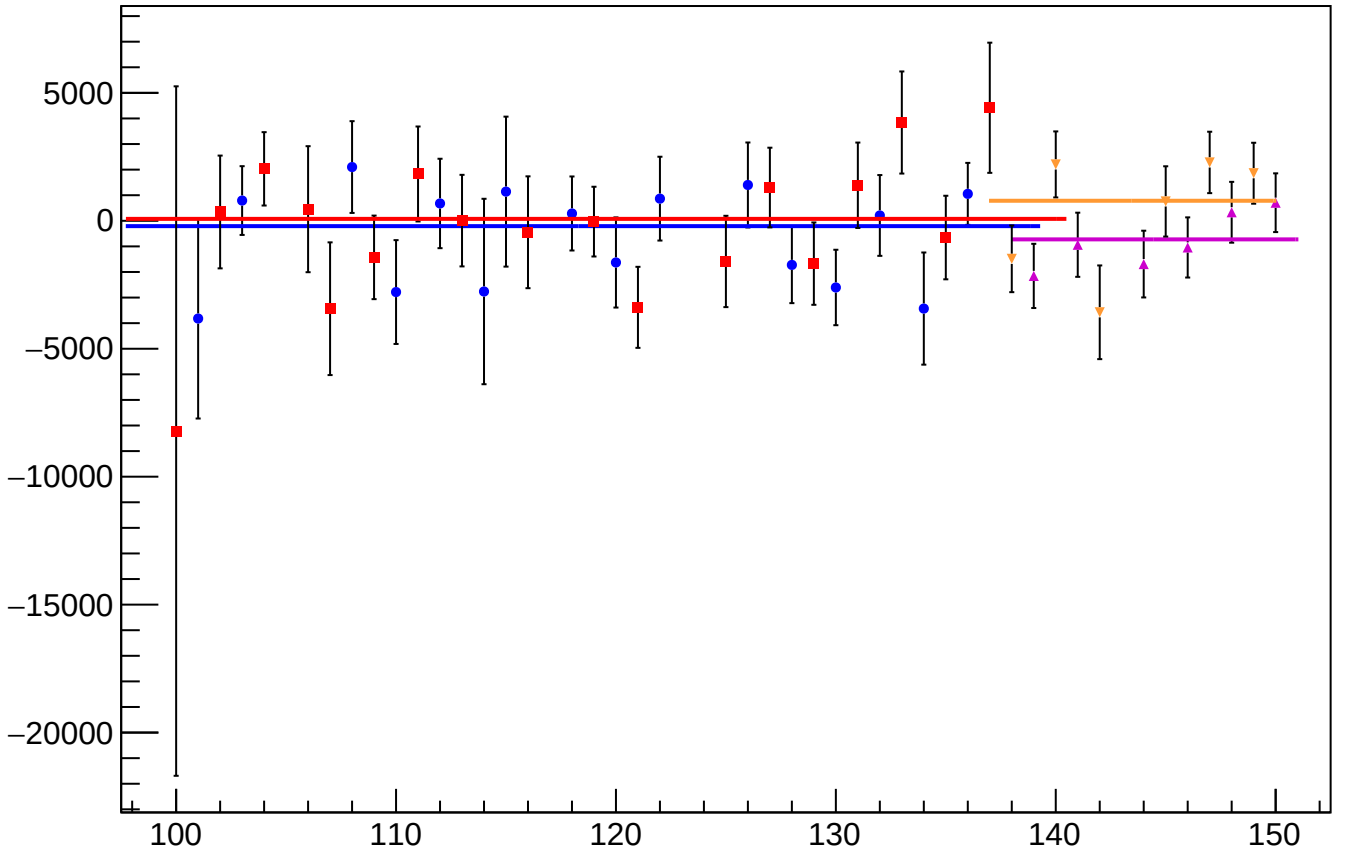
In: 254.444+/-0.055 $\chi^2$/NDF:2476024.0/21

Out: 241.869+/-0.056 $\chi^2$/NDF:3377852.9/23

All: 248.291+/-0.039 $\chi^2$/NDF: 5879417.1/45


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1.5
1
0.5
0
−0.5
−1
−1.5
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 17.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1.5/5
Right Out: -0.000+/-0.000 χ²/NDF: 25.8/17
Left In: 0.000+/-0.000 χ²/NDF:2.8/5
Left: 0.000+/-0.000 χ²/NDF: 4.3/11
Right: -0.000+/-0.000 χ²/NDF: 43.7/33
In: -0.000+/-0.000 χ²/NDF:20.4/21
Out: -0.000+/-0.000 χ²/NDF:30.1/23
All: -0.000+/-0.000 χ²/NDF: 50.8/45


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2235431.4/15
Left Out: 0.000+/-0.000 χ²/NDF:177998.7/5
Right Out: 0.000+/-0.000 χ²/NDF: 3745180.4/17
Left In: 0.000+/-0.000 χ²/NDF:397672.7/5
Left: 0.000+/-0.000 χ²/NDF: 582862.1/11
Right: 0.000+/-0.000 χ²/NDF: 6051897.3/33
In: 0.000+/-0.000 χ²/NDF:2691273.1/21
Out: 0.000+/-0.000 χ²/NDF:3925113.9/23
All: 0.000+/-0.000 χ²/NDF: 6671391.8/45




Right In: -208.338+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 783.570+/-540.891 $\chi^2$/NDF:12.3/5

Right Out: 75.616+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -725.771+/-496.892 $\chi^2$/NDF:4.3/5

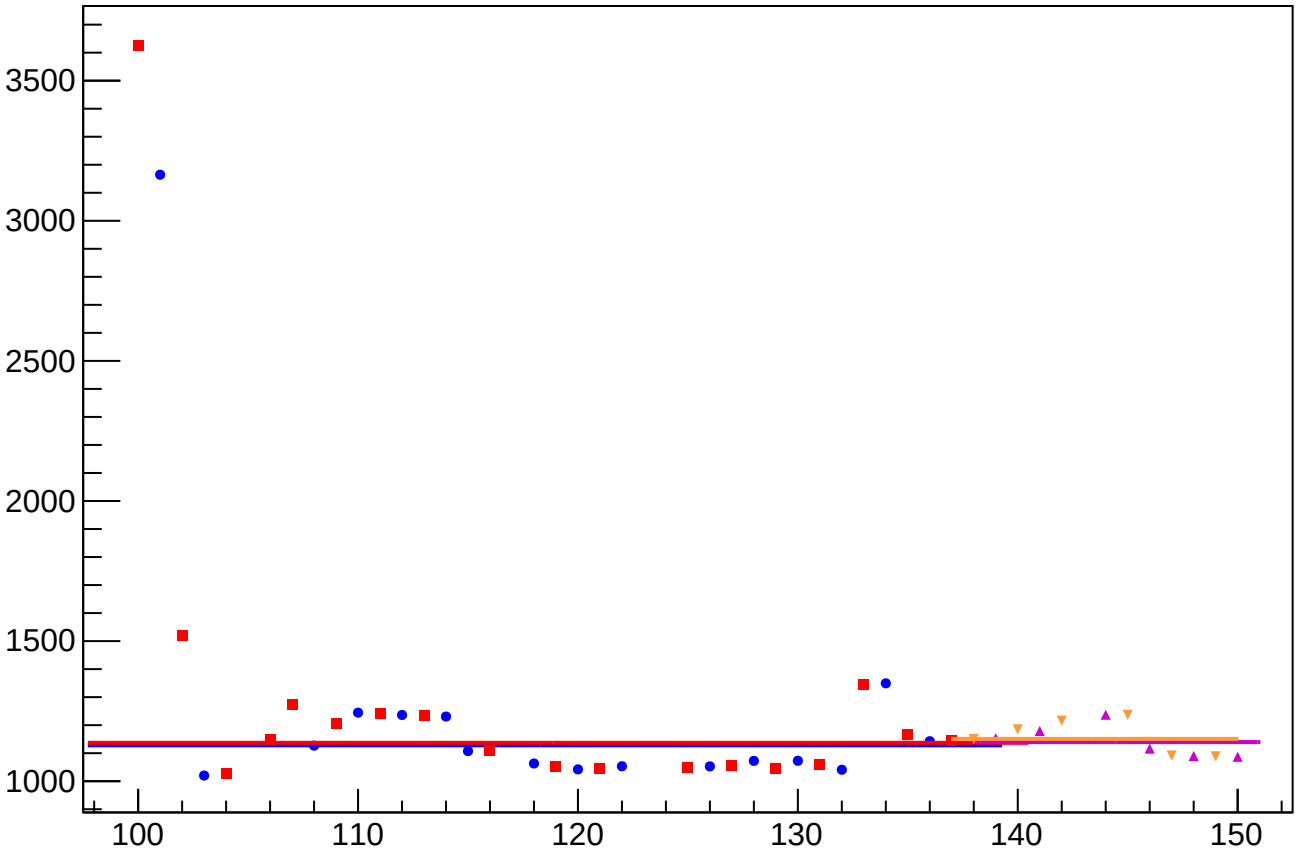
Left: -34.978+/-365.923 $\chi^2$/NDF: 20.8/11

Right: -66.891+/-304.024 $\chi^2$/NDF: 35.6/33

In: -429.407+/-324.787 $\chi^2$/NDF:19.7/21

Out: 350.368+/-336.960 $\chi^2$/NDF:34.0/23

All: -53.858+/-233.844 $\chi^2$/NDF: 56.5/45




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621394.5/15

Left Out: 1151.002+/-0.382 $\chi^2$/NDF:22168.4/5

Right Out: 1137.041+/-0.304 $\chi^2$/NDF: 220086.1/17

Left In: 1139.659+/-0.351 $\chi^2$/NDF:21878.7/5

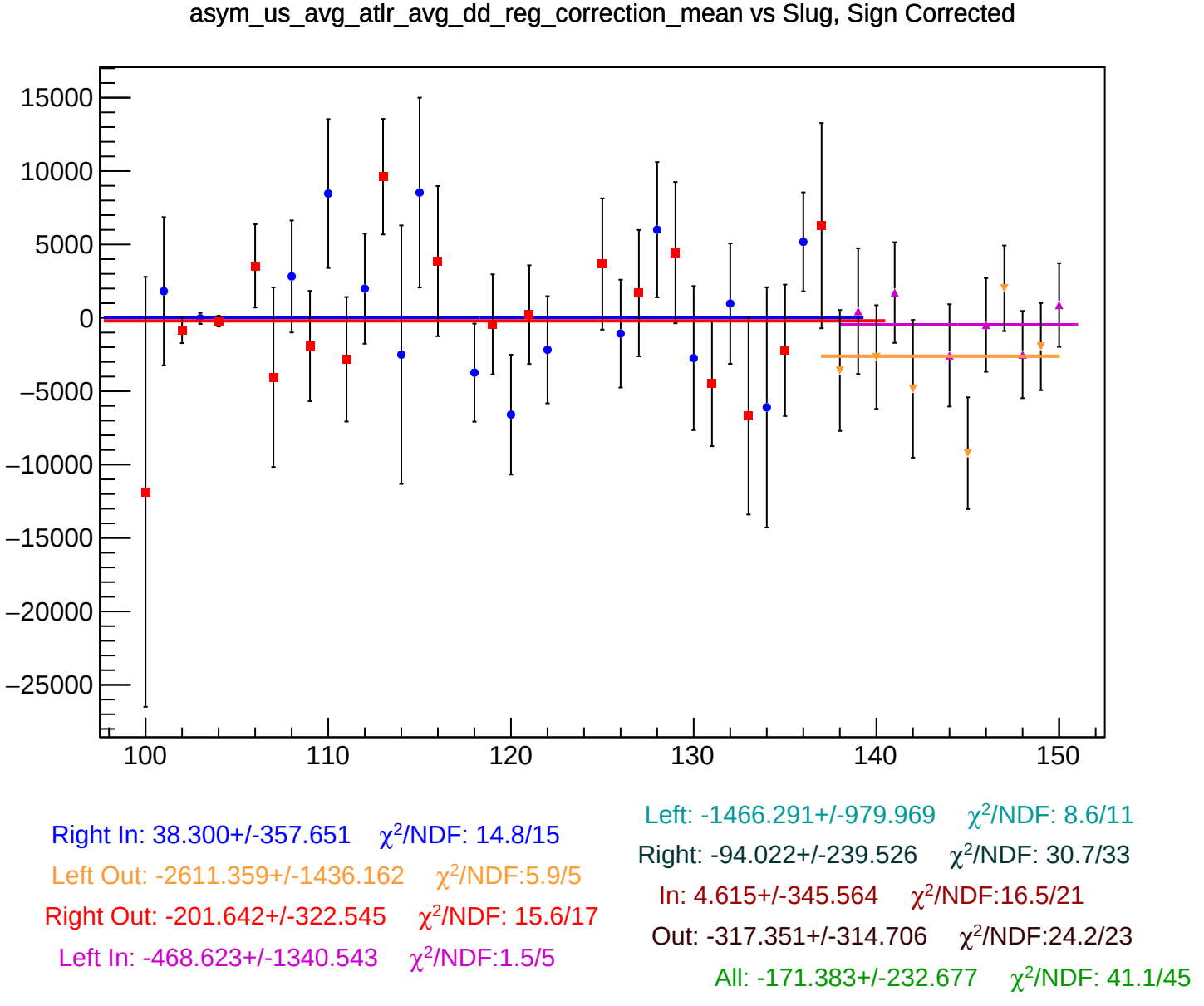
Left: 1144.850+/-0.259 $\chi^2$/NDF: 44524.1/11

Right: 1132.516+/-0.215 $\chi^2$/NDF: 841922.9/33

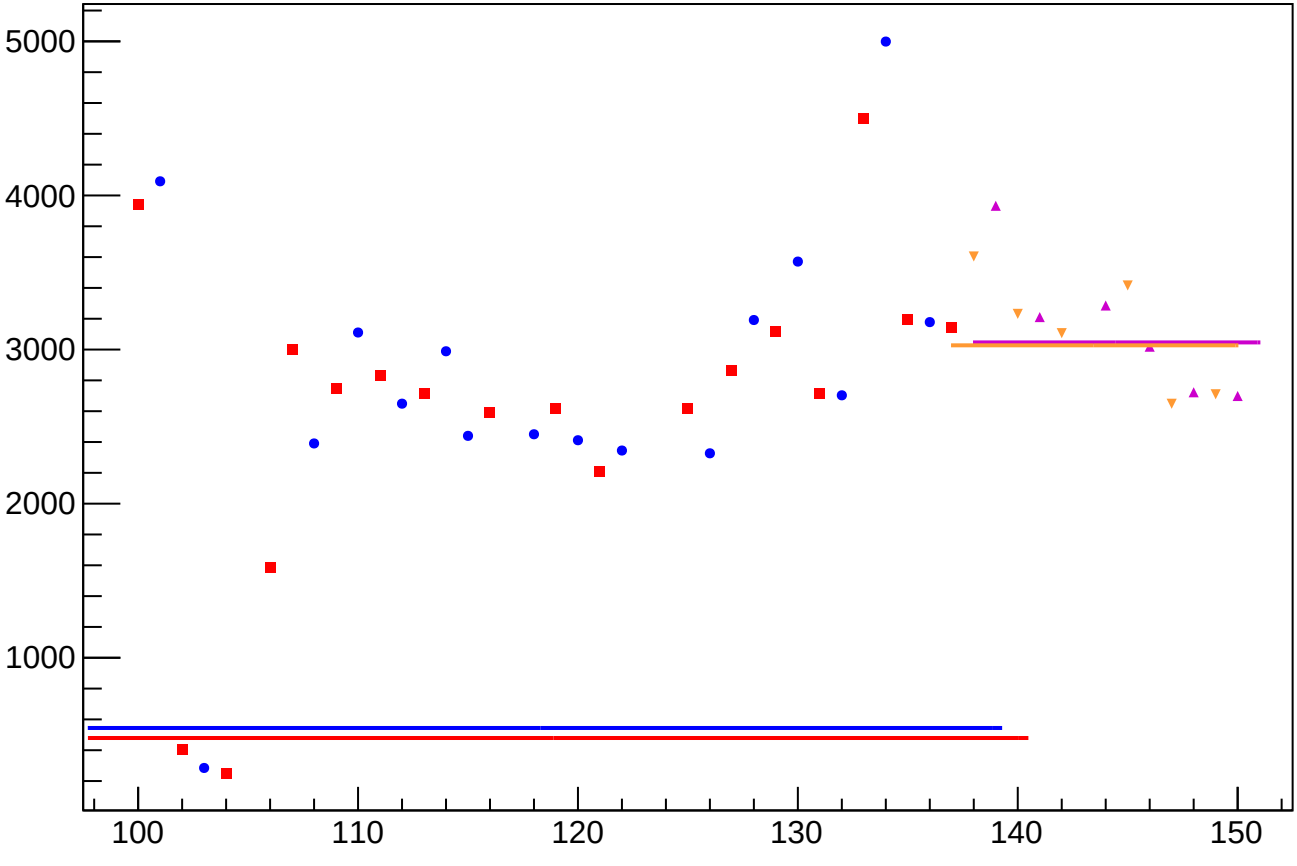
In: 1132.985+/-0.230 $\chi^2$/NDF:643903.1/21

Out: 1142.447+/-0.238 $\chi^2$/NDF:243070.9/23

All: 1137.547+/-0.165 $\chi^2$/NDF: 887792.4/45


asym_us_avg_atlr_avg_dd_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
Right In: 38.300+/-357.651 χ²/NDF: 14.8/15
Left Out: -2611.359+/-1436.162 χ²/NDF:5.9/5
Right Out: -201.642+/-322.545 χ²/NDF: 15.6/17
Left In: -468.623+/-1340.543 χ²/NDF:1.5/5
Left: -1466.291+/-979.969 χ²/NDF: 8.6/11
Right: -94.022+/-239.526 χ²/NDF: 30.7/33
In: 4.615+/-345.564 χ²/NDF:16.5/21
Out: -317.351+/-314.706 χ²/NDF:24.2/23
All: -171.383+/-232.677 χ²/NDF: 41.1/45

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 544.336+/-0.253 $\chi^2$/NDF: 9682967.9/15

Left Out: 3027.451+/-1.016 $\chi^2$/NDF:124034.4/5

Right Out: 479.253+/-0.228 $\chi^2$/NDF: 9187985.0/17

Left In: 3046.392+/-0.948 $\chi^2$/NDF:153361.4/5

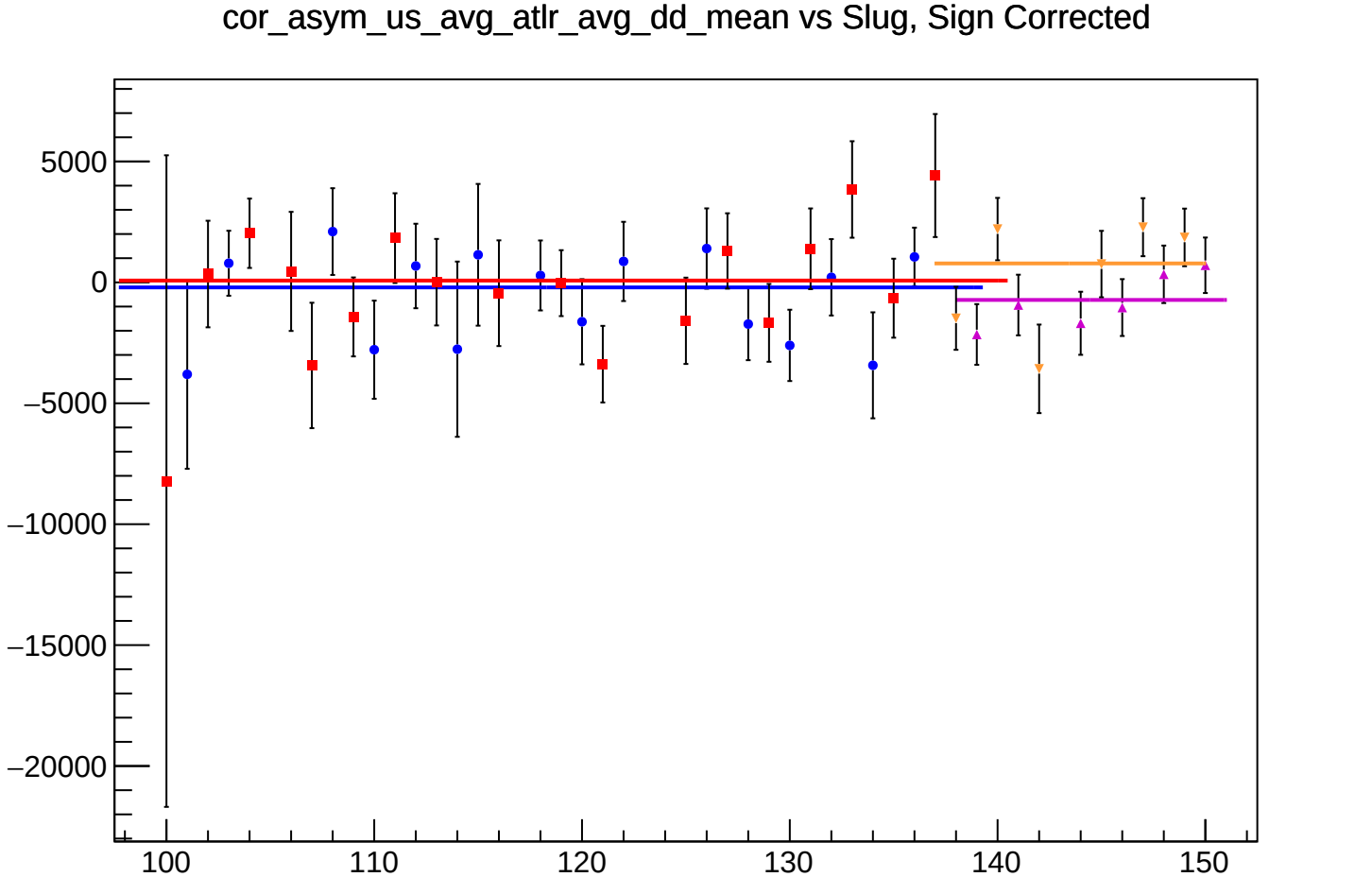
Left: 3037.573+/-0.693 $\chi^2$/NDF: 277581.8/11

Right: 508.444+/-0.169 $\chi^2$/NDF: 18907476.4/33

In: 710.598+/-0.244 $\chi^2$/NDF:16340622.5/21

Out: 601.611+/-0.223 $\chi^2$/NDF:15306040.9/23

All: 651.022+/-0.165 $\chi^2$/NDF: 31755409.1/45




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 783.647+/-540.891 $\chi^2$/NDF:12.3/5

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -725.878+/-496.892 $\chi^2$/NDF:4.3/5

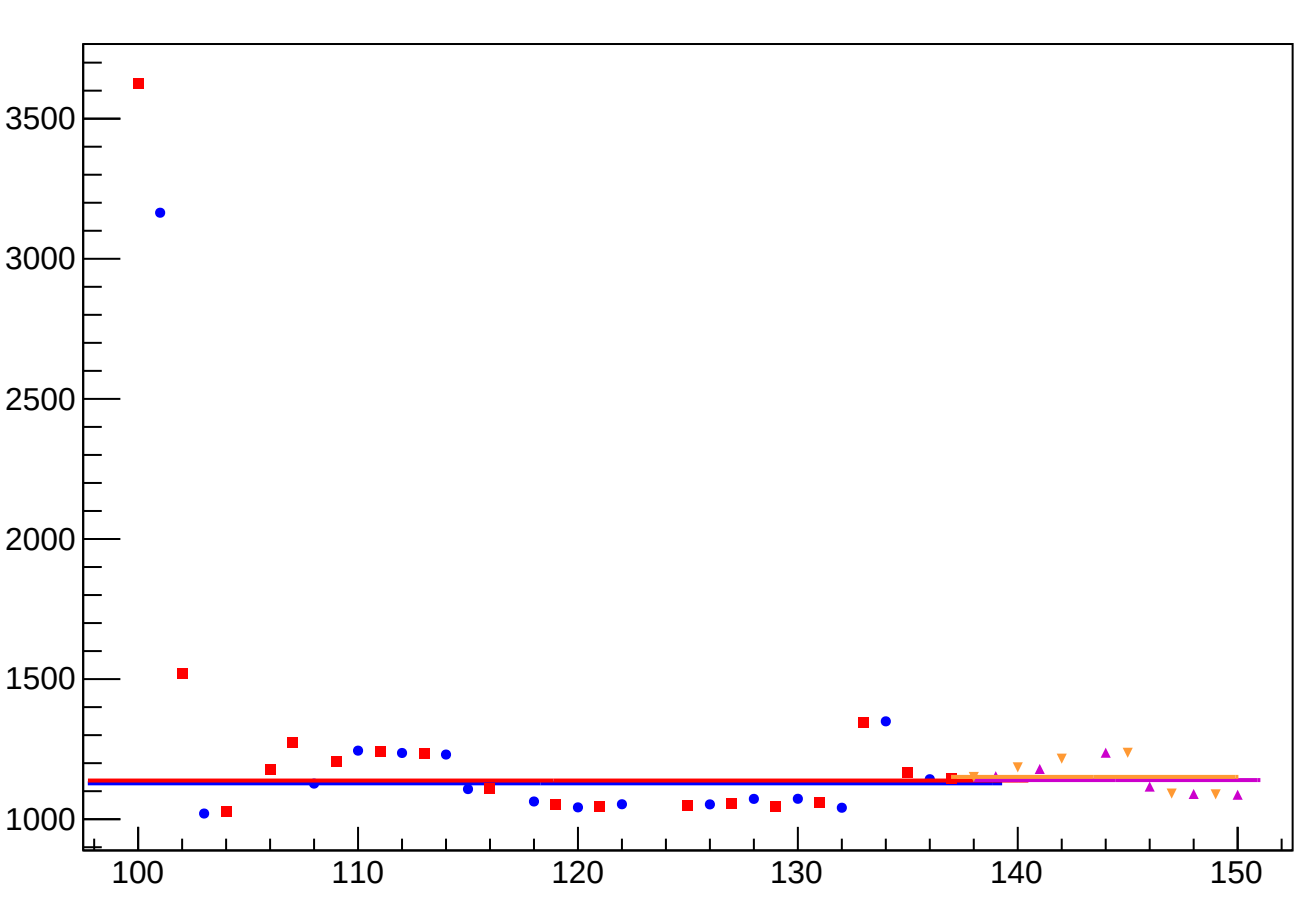
Left: -35.000+/-365.923 $\chi^2$/NDF: 20.8/11

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -429.323+/-324.787 $\chi^2$/NDF:19.7/21

Out: 350.487+/-336.960 $\chi^2$/NDF:34.0/23

All: -53.757+/-233.844 $\chi^2$/NDF: 56.5/45




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1151.002+/-0.382 $\chi^2$/NDF:22168.4/5

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1139.659+/-0.351 $\chi^2$/NDF:21878.7/5

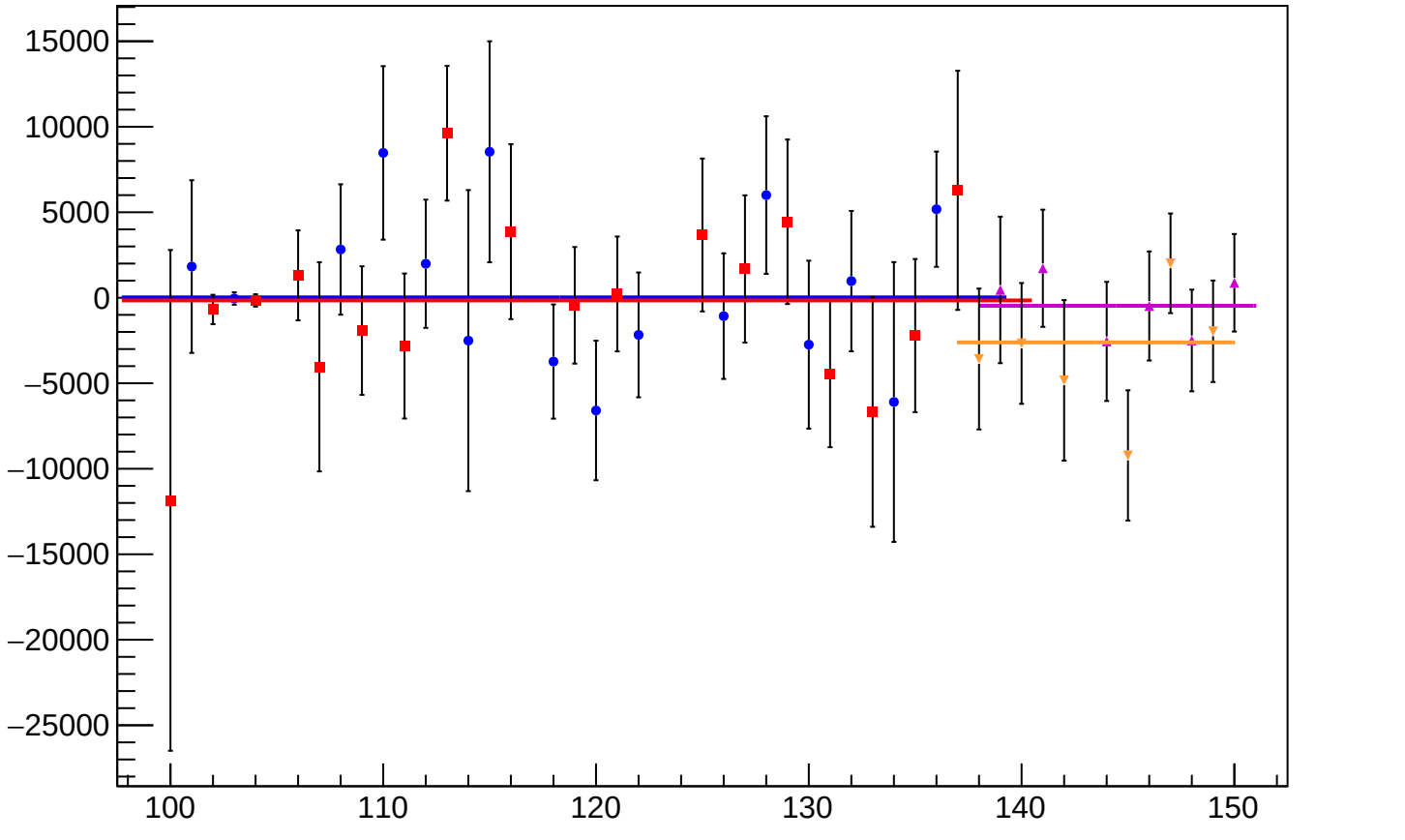
Left: 1144.850+/-0.259 $\chi^2$/NDF: 44524.1/11

Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

In: 1132.985+/-0.230 $\chi^2$/NDF:643904.3/21

Out: 1143.042+/-0.238 $\chi^2$/NDF:243500.3/23

All: 1137.831+/-0.165 $\chi^2$/NDF: 888328.4/45




Right In: 21.645+/-344.525 $\chi^2$/NDF: 14.9/15

Left Out: -2611.246+/-1436.161 $\chi^2$/NDF:5.9/5

Right Out: -156.231+/-317.367 $\chi^2$/NDF: 14.0/17

Left In: -468.613+/-1340.543 $\chi^2$/NDF:1.5/5

Left: -1466.234+/-979.968 $\chi^2$/NDF: 8.6/11

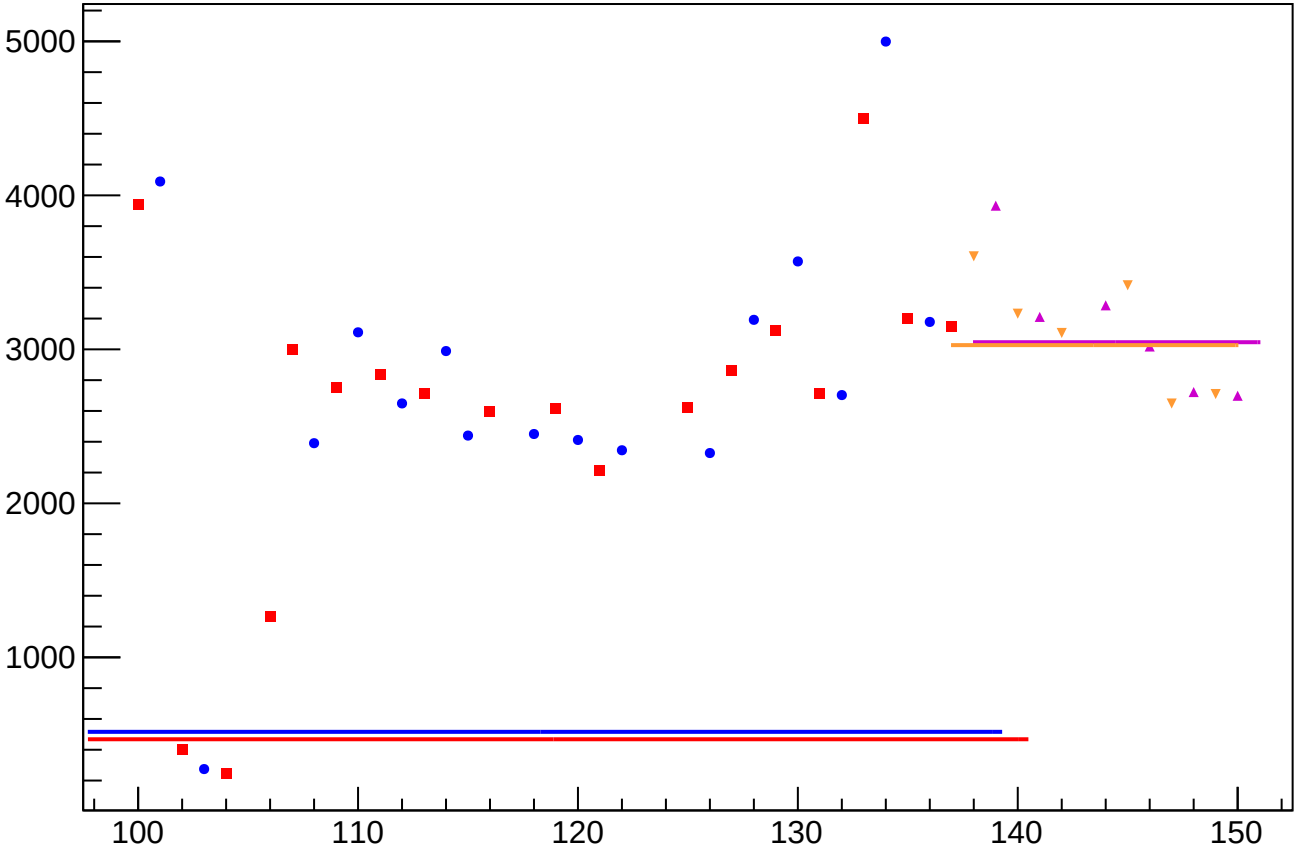
Right: -74.579+/-233.424 $\chi^2$/NDF: 29.0/33

In: -8.731+/-333.682 $\chi^2$/NDF:16.5/21

Out: -270.536+/-309.891 $\chi^2$/NDF:22.6/23

All: -149.298+/-227.071 $\chi^2$/NDF: 39.5/45

asym_us_avg_atlr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3027.449+/-1.016 $\chi^2$/NDF:124032.4/5

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3046.392+/-0.948 $\chi^2$/NDF:153362.3/5

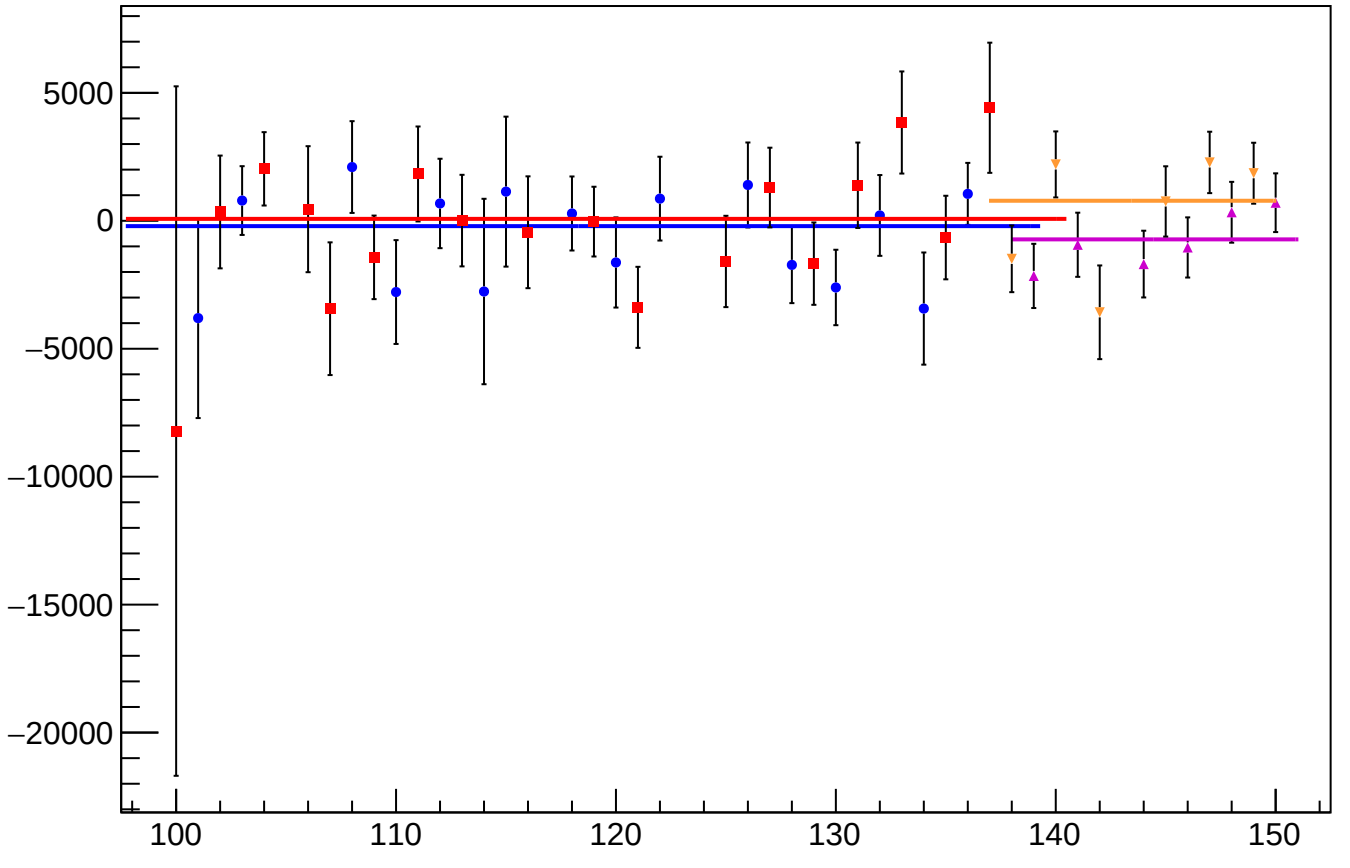
Left: 3037.572+/-0.693 $\chi^2$/NDF: 277580.7/11

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 673.058+/-0.236 $\chi^2$/NDF:16670916.4/21

Out: 587.224+/-0.219 $\chi^2$/NDF:15291307.7/23

All: 626.973+/-0.161 $\chi^2$/NDF: 32033278.4/45




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 783.647+/-540.891 $\chi^2$/NDF:12.3/5

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -725.878+/-496.892 $\chi^2$/NDF:4.3/5

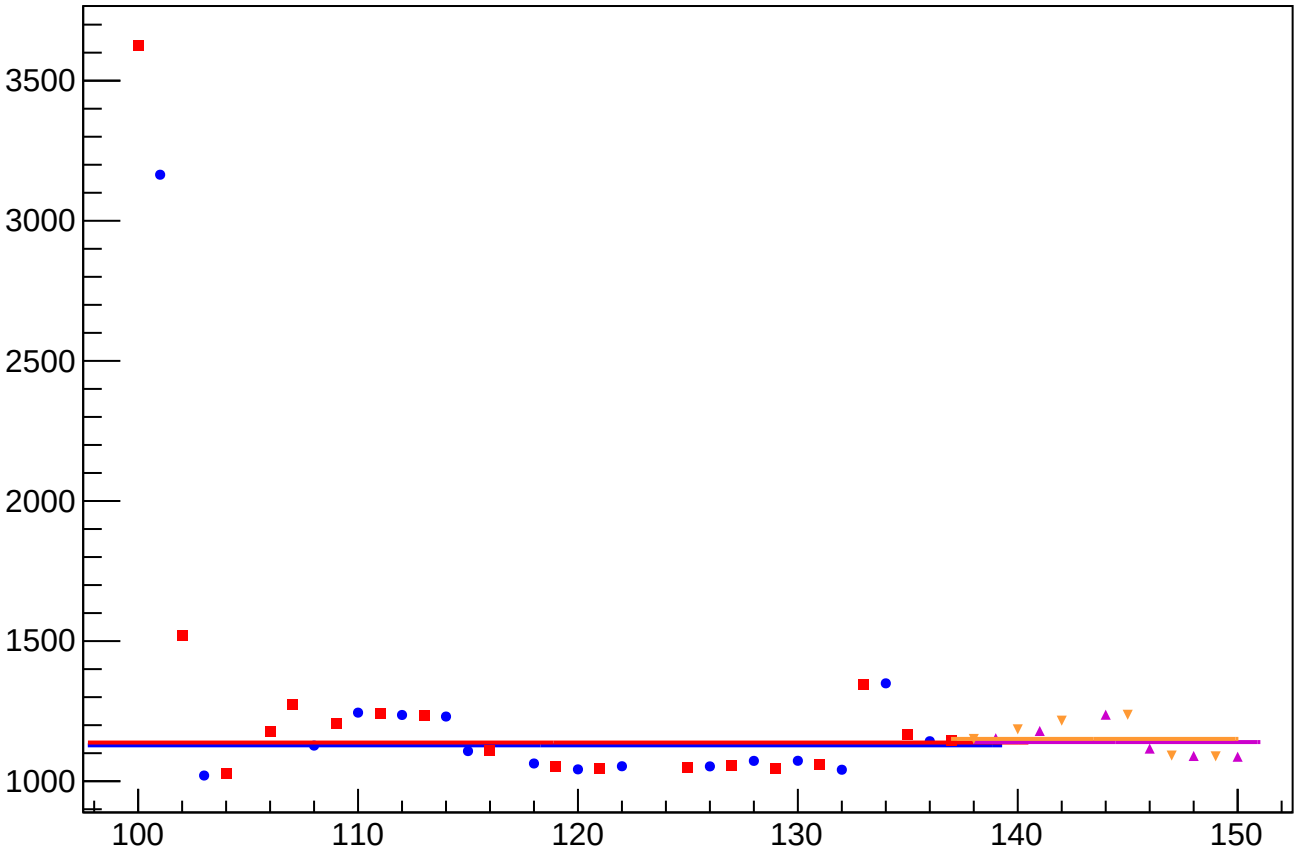
Left: -35.000+/-365.923 $\chi^2$/NDF: 20.8/11

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -429.323+/-324.787 $\chi^2$/NDF:19.7/21

Out: 350.487+/-336.960 $\chi^2$/NDF:34.0/23

All: -53.757+/-233.844 $\chi^2$/NDF: 56.5/45




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1151.002+/-0.382 $\chi^2$/NDF:22168.4/5

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1139.659+/-0.351 $\chi^2$/NDF:21878.7/5

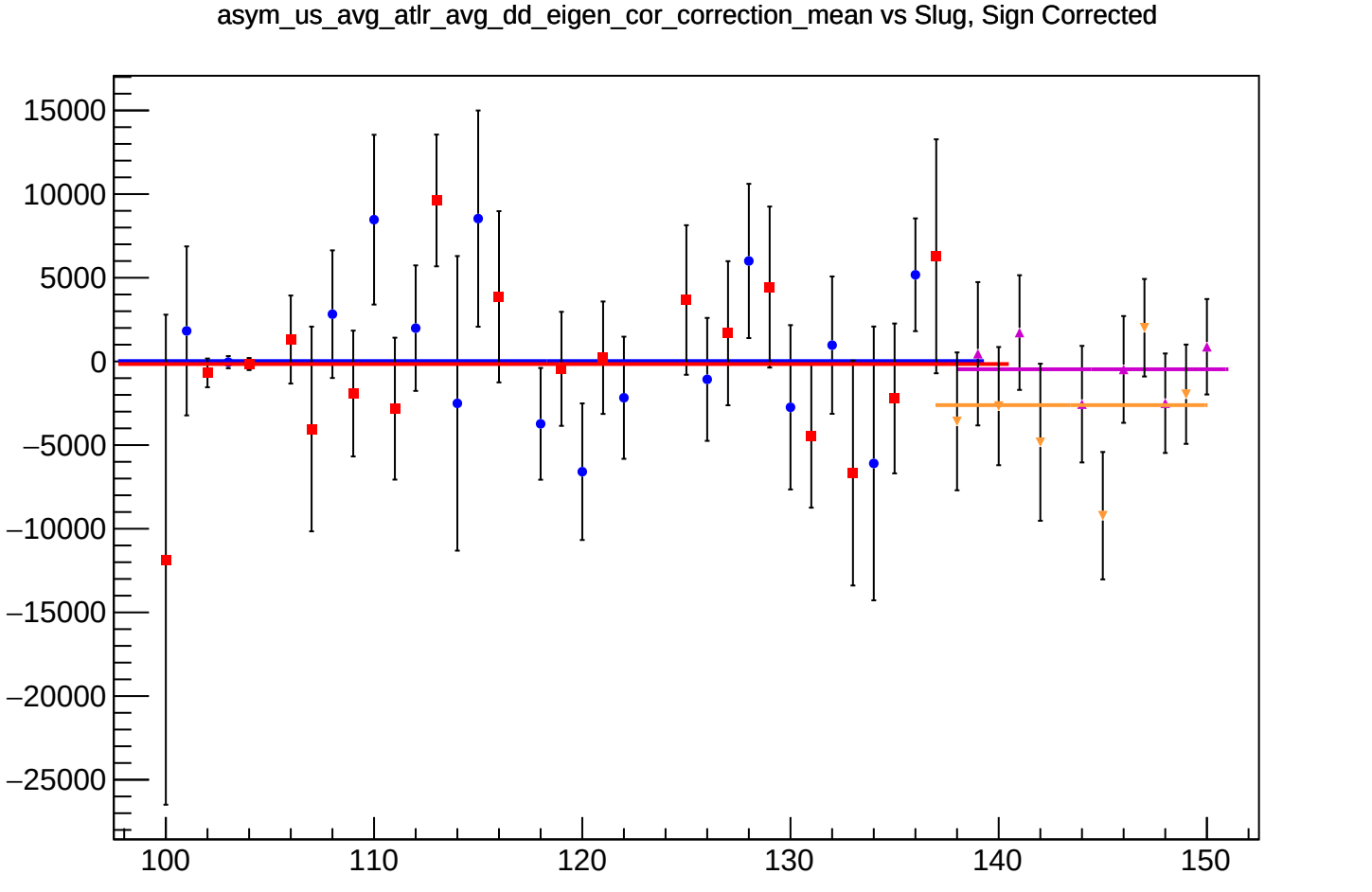
Left: 1144.850+/-0.259 $\chi^2$/NDF: 44524.1/11

Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

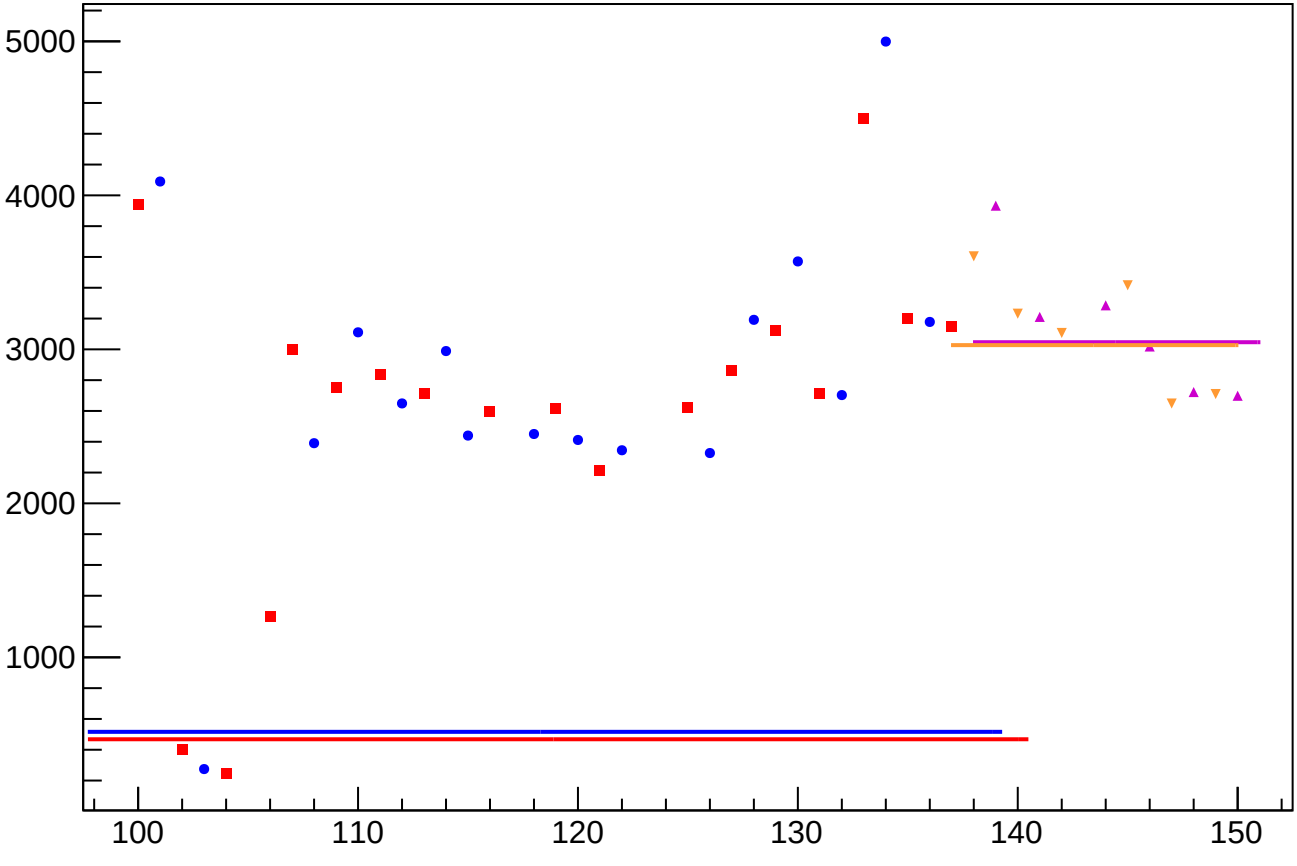
In: 1132.985+/-0.230 $\chi^2$/NDF:643904.3/21

Out: 1143.042+/-0.238 $\chi^2$/NDF:243500.3/23

All: 1137.831+/-0.165 $\chi^2$/NDF: 888328.4/45


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
Right In: 21.645+/-344.525 χ²/NDF: 14.9/15
Left Out: -2611.246+/-1436.161 χ²/NDF:5.9/5
Right Out: -156.231+/-317.367 χ²/NDF: 14.0/17
Left In: -468.613+/-1340.543 χ²/NDF:1.5/5
Left: -1466.234+/-979.968 χ²/NDF: 8.6/11
Right: -74.579+/-233.424 χ²/NDF: 29.0/33
In: -8.731+/-333.682 χ²/NDF:16.5/21
Out: -270.536+/-309.891 χ²/NDF:22.6/23
All: -149.298+/-227.071 χ²/NDF: 39.5/45

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3027.449+/-1.016 $\chi^2$/NDF:124032.4/5

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3046.392+/-0.948 $\chi^2$/NDF:153362.3/5

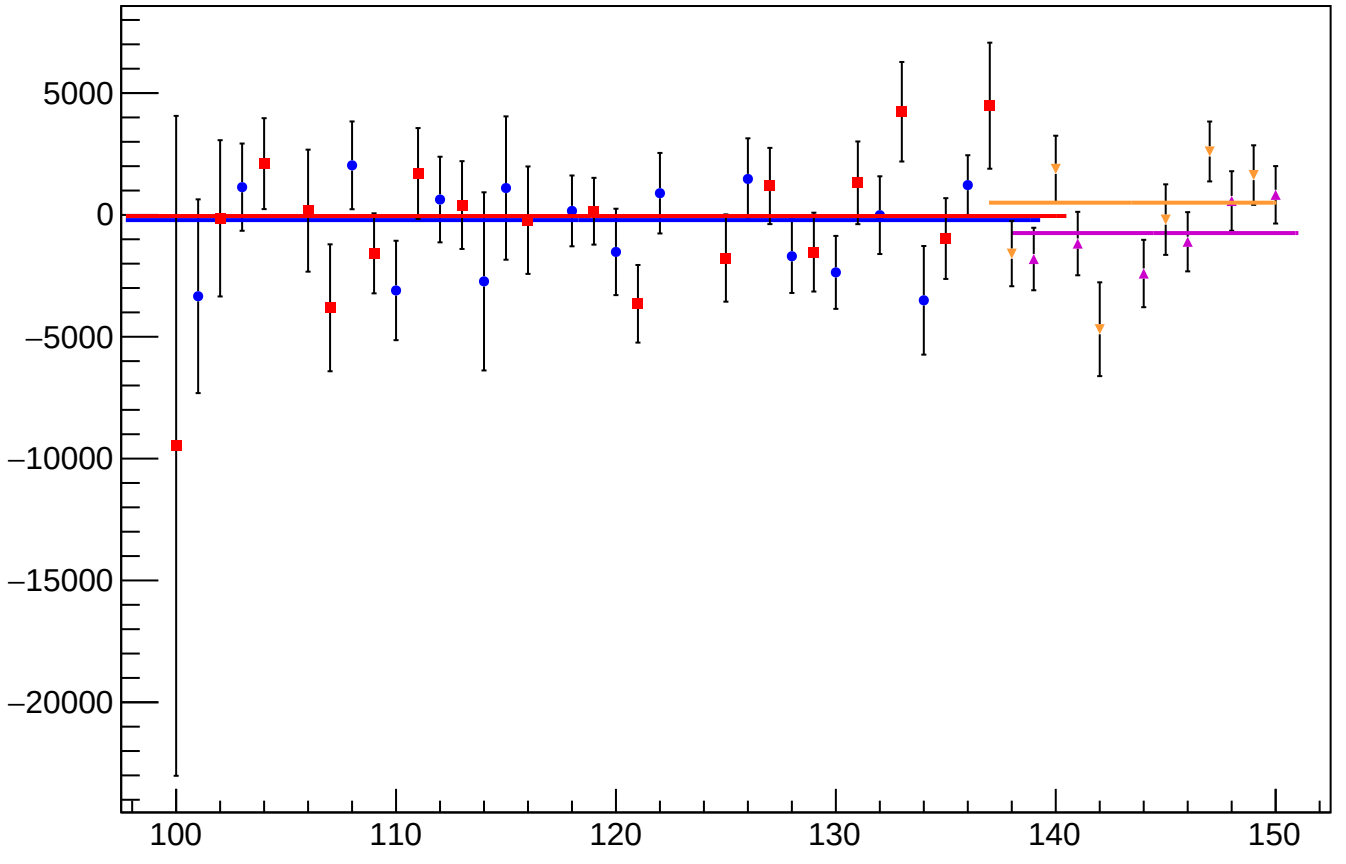
Left: 3037.572+/-0.693 $\chi^2$/NDF: 277580.7/11

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 673.058+/-0.236 $\chi^2$/NDF:16670916.4/21

Out: 587.224+/-0.219 $\chi^2$/NDF:15291307.7/23

All: 626.973+/-0.161 $\chi^2$/NDF: 32033278.4/45




Right In: -213.079+/-442.684 $\chi^2$/NDF: 14.3/15

Left Out: 502.141+/-560.795 $\chi^2$/NDF:14.8/5

Right Out: -45.535+/-447.221 $\chi^2$/NDF: 21.7/17

Left In: -744.619+/-513.777 $\chi^2$/NDF:5.3/5

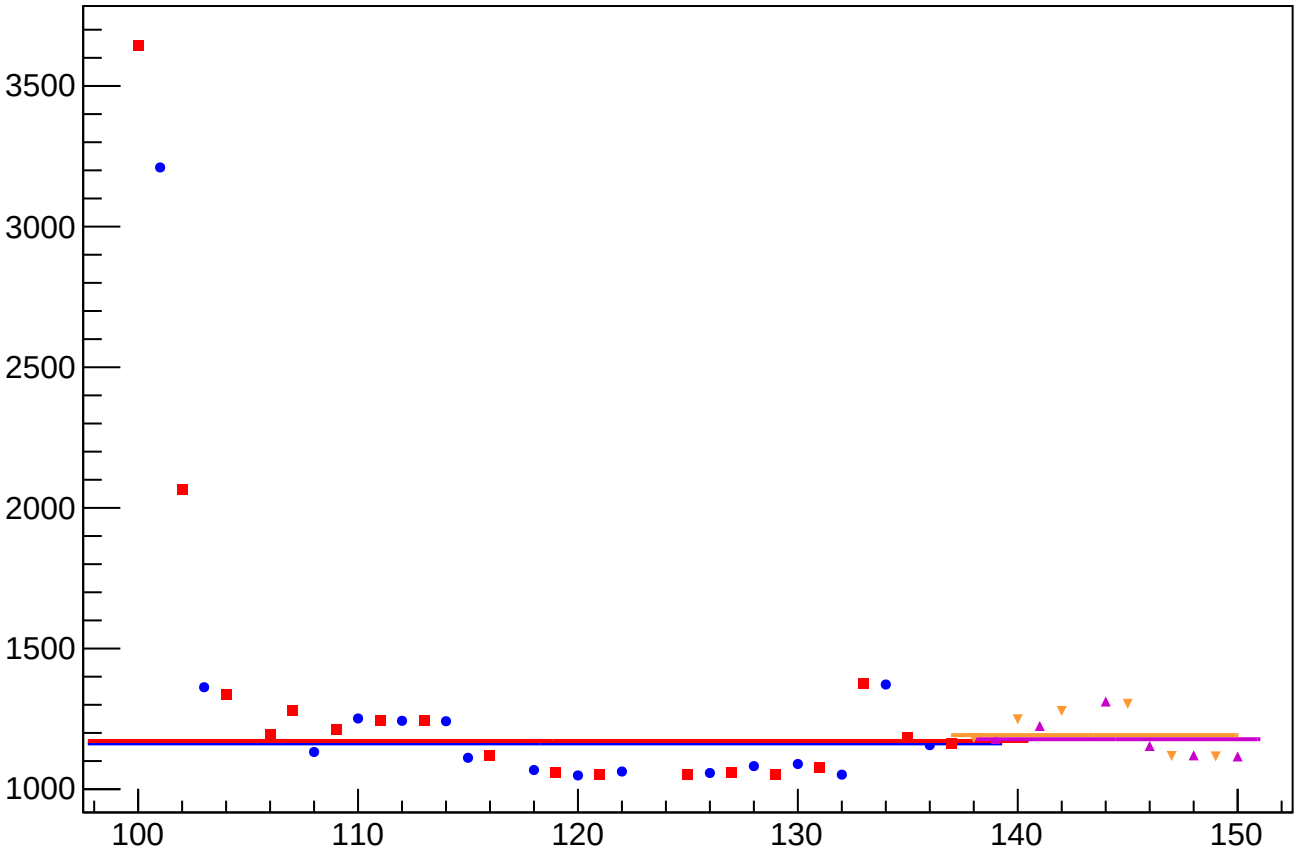
Left: -175.687+/-378.829 $\chi^2$/NDF: 22.7/11

Right: -130.161+/-314.617 $\chi^2$/NDF: 36.1/33

In: -439.557+/-335.367 $\chi^2$/NDF:20.2/21

Out: 167.369+/-349.651 $\chi^2$/NDF:37.0/23

All: -148.744+/-242.032 $\chi^2$/NDF: 58.8/45




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.4/15

Left Out: 1192.316+/-0.397 $\chi^2$/NDF:34287.0/5

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.8/17

Left In: 1177.640+/-0.363 $\chi^2$/NDF:32018.4/5

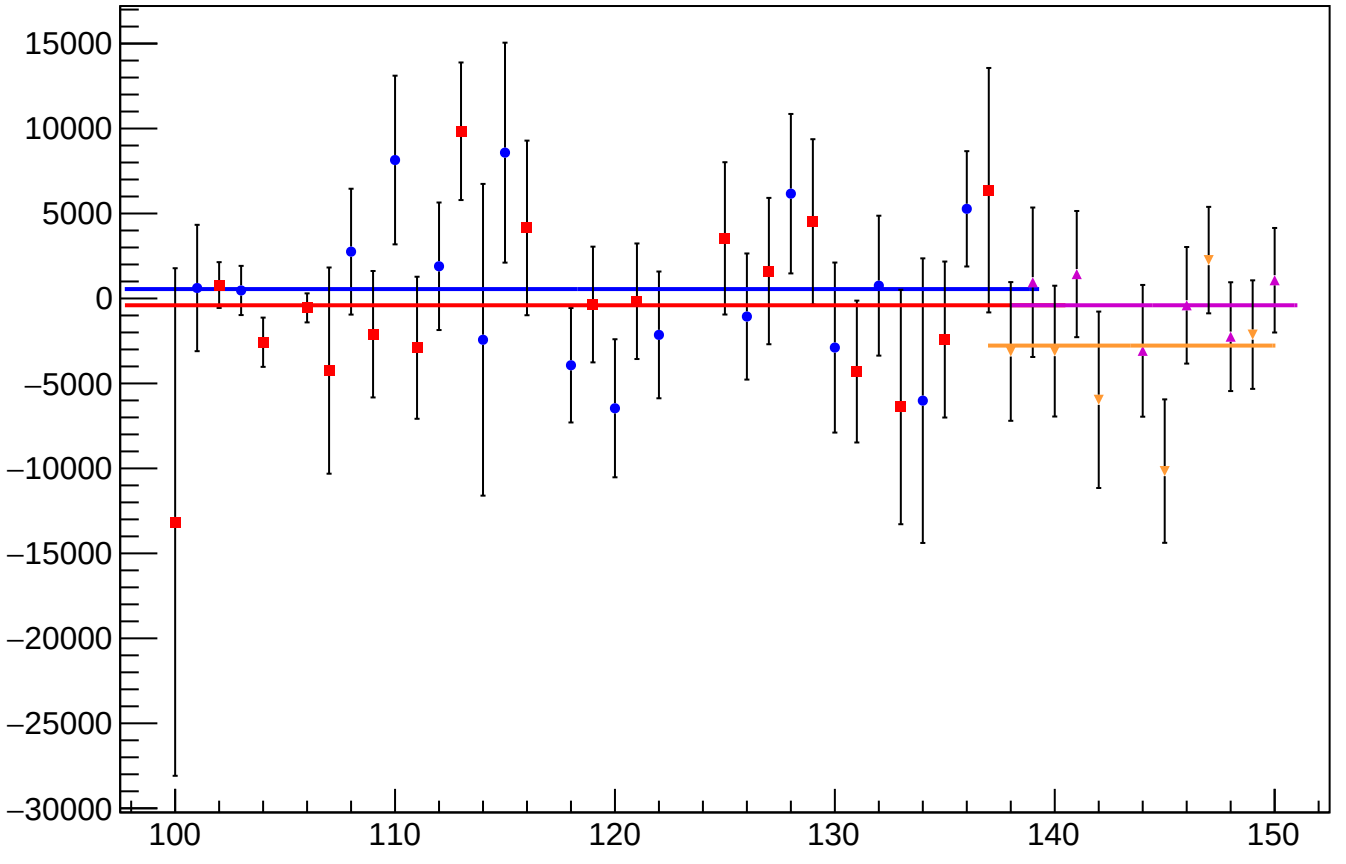
Left: 1184.337+/-0.268 $\chi^2$/NDF: 67050.0/11

Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.3/33

In: 1169.153+/-0.237 $\chi^2$/NDF:668322.9/21

Out: 1179.539+/-0.247 $\chi^2$/NDF:367625.7/23

All: 1174.131+/-0.171 $\chi^2$/NDF: 1036868.0/45




Right In: 552.517+/-874.128 $\chi^2$/NDF: 14.4/15

Left Out: -2772.559+/-1541.712 $\chi^2$/NDF:6.1/5

Right Out: -400.432+/-565.871 $\chi^2$/NDF: 16.7/17

Left In: -400.108+/-1444.835 $\chi^2$/NDF:1.4/5

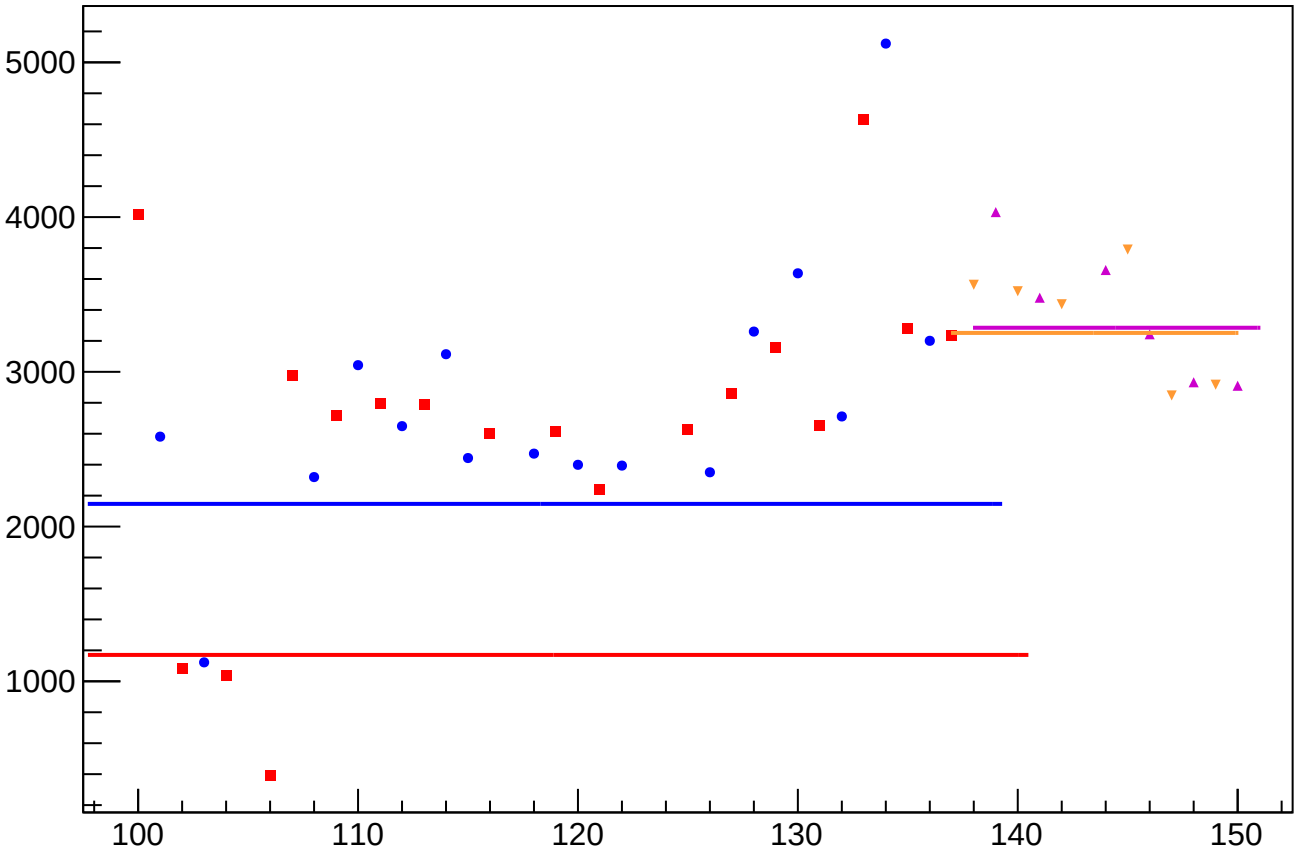
Left: -1509.457+/-1054.238 $\chi^2$/NDF: 8.7/11

Right: -119.015+/-475.024 $\chi^2$/NDF: 31.9/33

In: 297.261+/-747.903 $\chi^2$/NDF:16.1/21

Out: -682.061+/-531.218 $\chi^2$/NDF:24.8/23

All: -353.670+/-433.090 $\chi^2$/NDF: 42.1/45




Right In: 2146.616+/-0.618 $\chi^2$/NDF: 1974723.6/15

Left Out: 3251.499+/-1.090 $\chi^2$/NDF:111783.3/5

Right Out: 1170.573+/-0.400 $\chi^2$/NDF: 5817478.8/17

Left In: 3284.932+/-1.022 $\chi^2$/NDF:135998.7/5

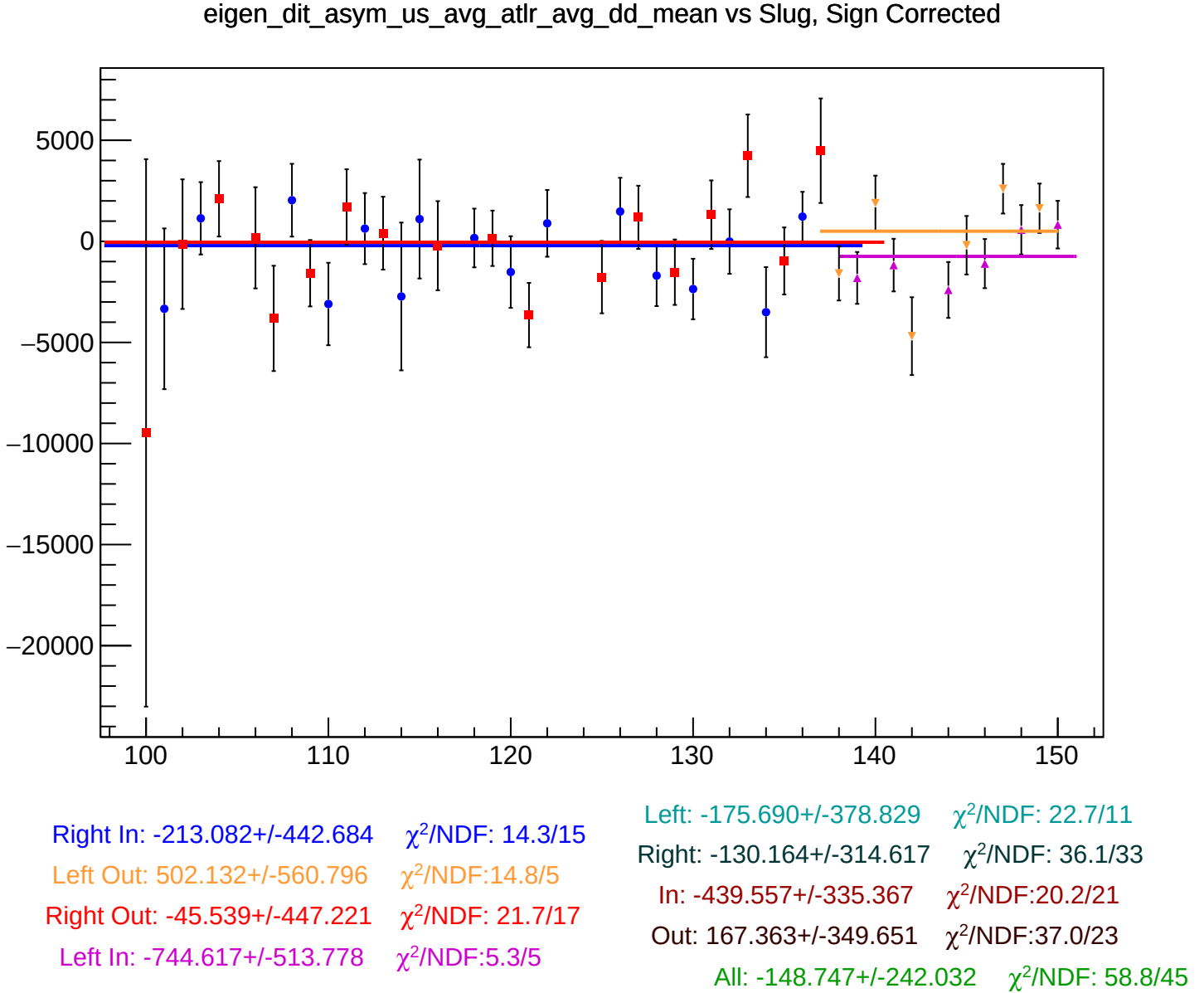
Left: 3269.299+/-0.745 $\chi^2$/NDF: 248282.7/11

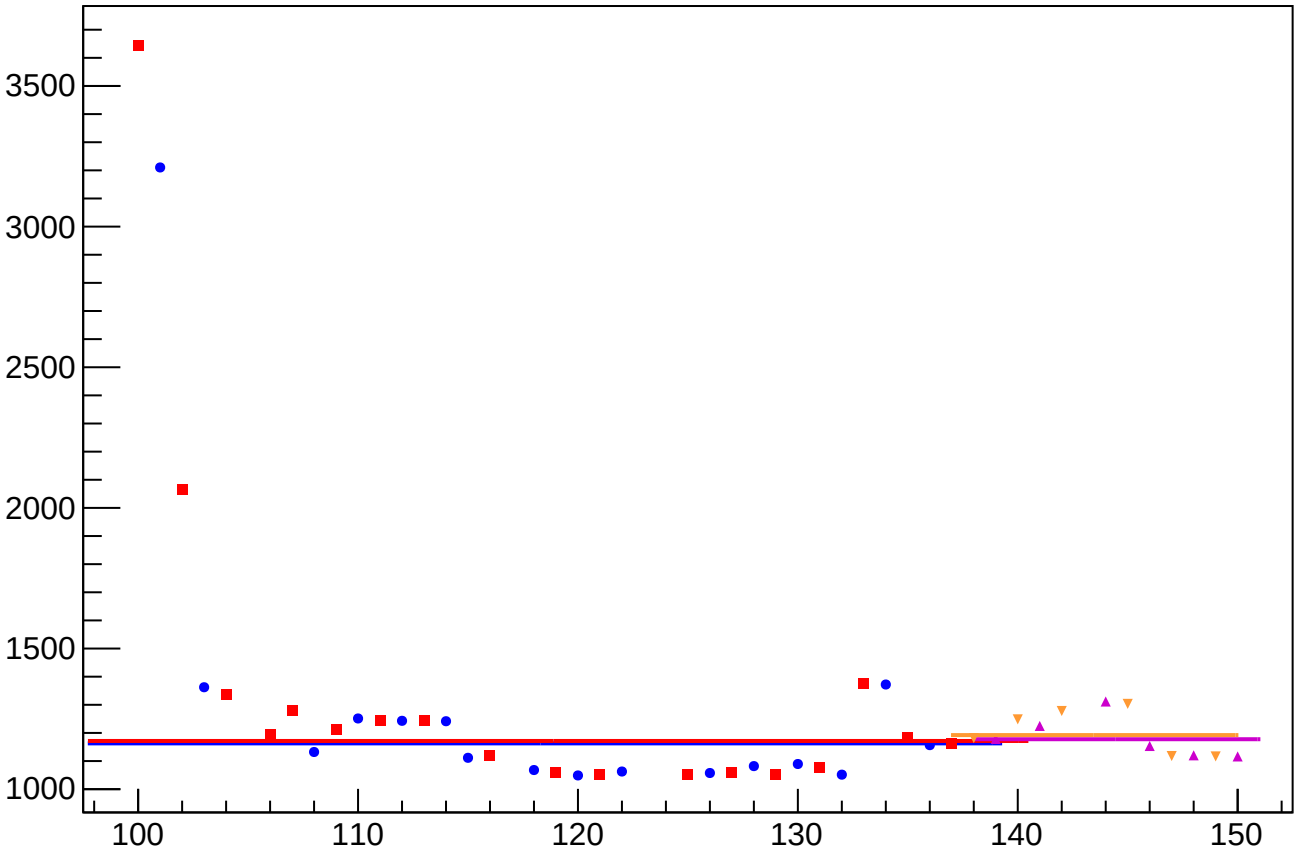
Right: 1458.811+/-0.336 $\chi^2$/NDF: 9549375.1/33

In: 2451.628+/-0.529 $\chi^2$/NDF:3019504.7/21

Out: 1417.630+/-0.376 $\chi^2$/NDF:9140318.6/23

All: 1764.355+/-0.306 $\chi^2$/NDF: 14700730.1/4


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
Right In: -213.082+/-442.684 χ²/NDF: 14.3/15
Left Out: 502.132+/-560.796 χ²/NDF:14.8/5
Right Out: -45.539+/-447.221 χ²/NDF: 21.7/17
Left In: -744.617+/-513.778 χ²/NDF:5.3/5
Left: -175.690+/-378.829 χ²/NDF: 22.7/11
Right: -130.164+/-314.617 χ²/NDF: 36.1/33
In: -439.557+/-335.367 χ²/NDF:20.2/21
Out: 167.363+/-349.651 χ²/NDF:37.0/23
All: -148.747+/-242.032 χ²/NDF: 58.8/45




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.6/15

Left Out: 1192.317+/-0.397 $\chi^2$/NDF:34287.4/5

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.4/17

Left In: 1177.641+/-0.363 $\chi^2$/NDF:32018.5/5

Left: 1184.338+/-0.268 $\chi^2$/NDF: 67050.6/11

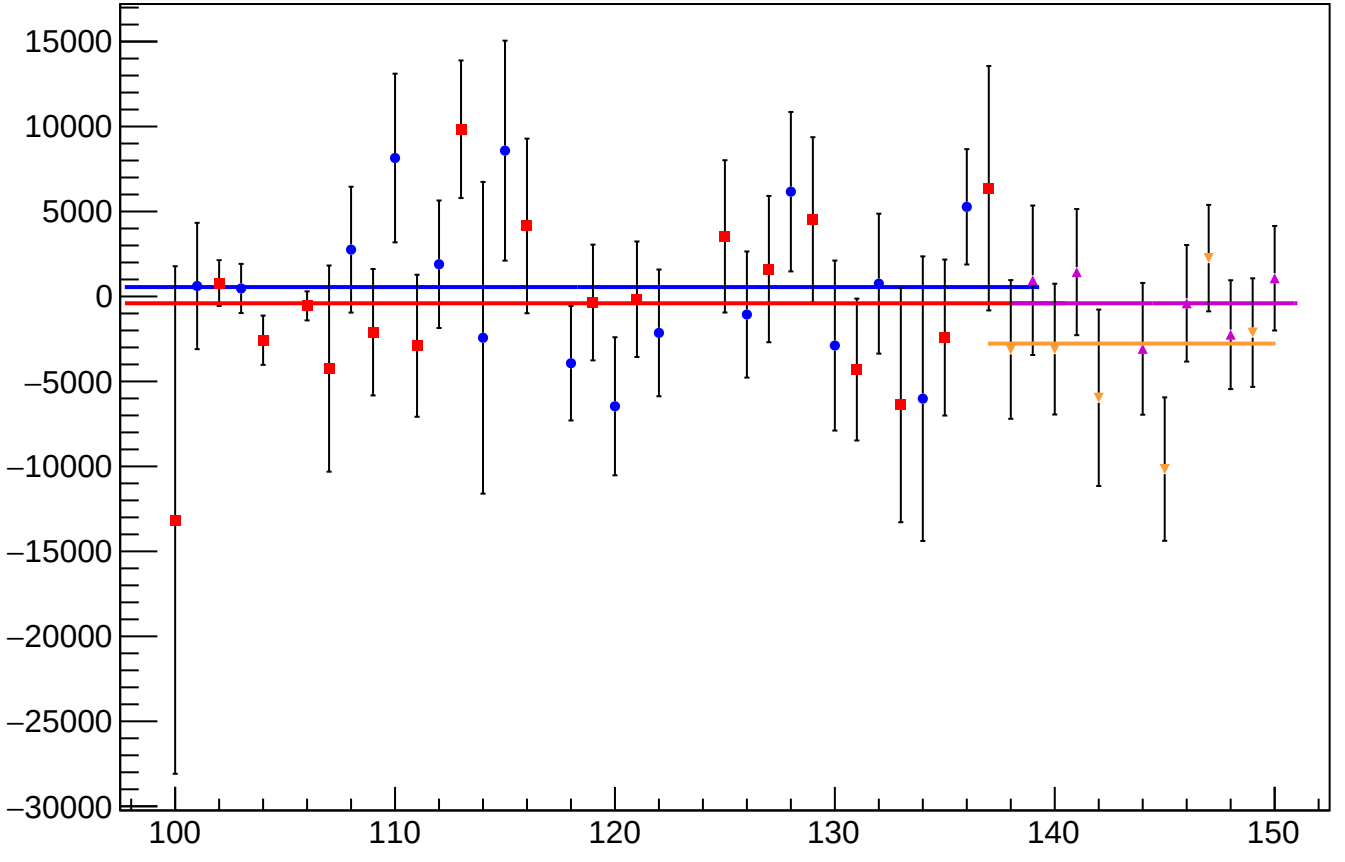
Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.1/33

In: 1169.153+/-0.237 $\chi^2$/NDF:668323.3/21

Out: 1179.539+/-0.247 $\chi^2$/NDF:367625.9/23

All: 1174.131+/-0.171 $\chi^2$/NDF: 1036868.6/45

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 552.510+/-874.126 $\chi^2$/NDF: 14.4/15

Left Out: -2772.565+/-1541.714 $\chi^2$/NDF:6.1/5

Right Out: -400.433+/-565.864 $\chi^2$/NDF: 16.7/17

Left In: -400.105+/-1444.837 $\chi^2$/NDF:1.4/5

Left: -1509.458+/-1054.240 $\chi^2$/NDF: 8.7/11

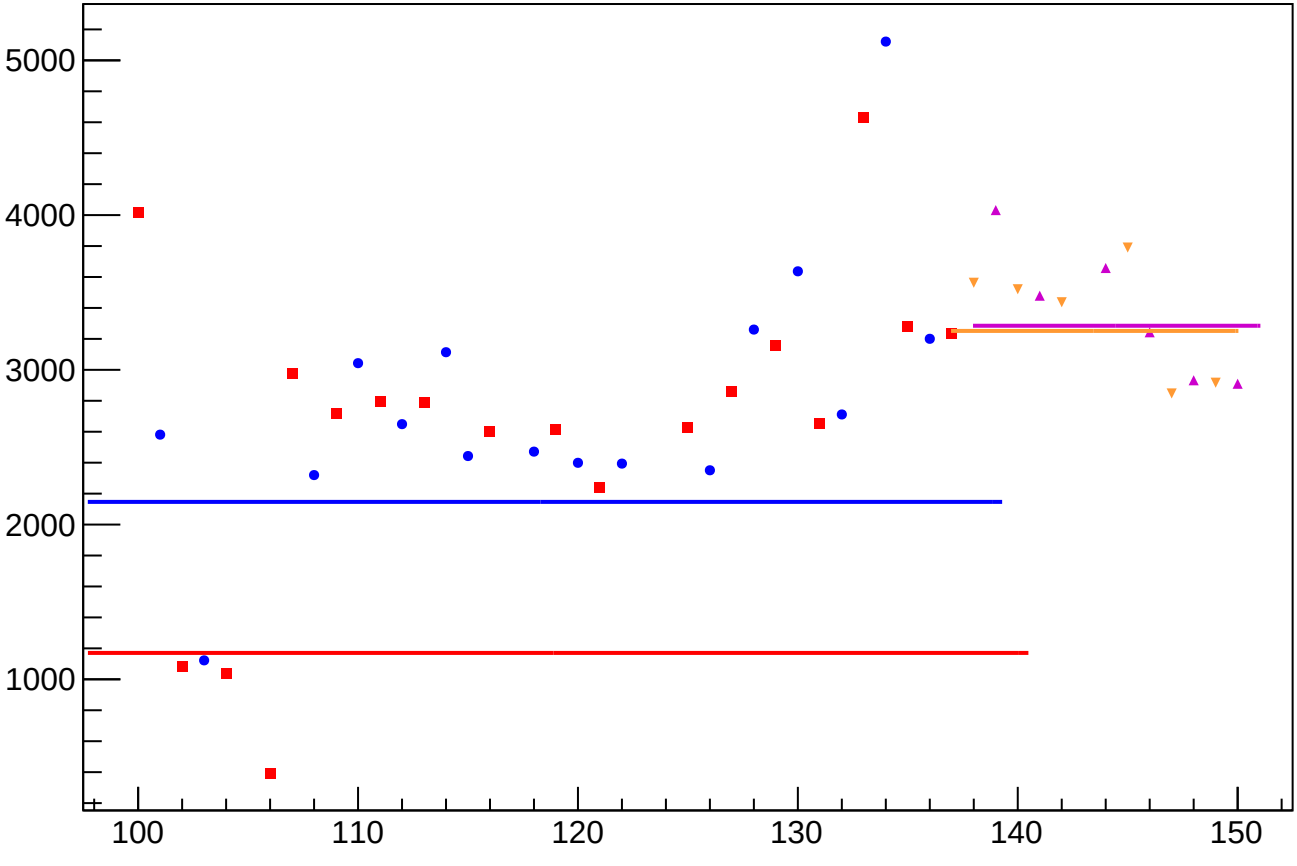
Right: -119.022+/-475.020 $\chi^2$/NDF: 31.9/33

In: 297.258+/-747.902 $\chi^2$/NDF:16.1/21

Out: -682.056+/-531.213 $\chi^2$/NDF:24.8/23

All: -353.672+/-433.087 $\chi^2$/NDF: 42.1/45

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 2146.613+/-0.618 $\chi^2$/NDF: 1974719.3/15

Left Out: 3251.502+/-1.090 $\chi^2$/NDF:111784.4/5

Right Out: 1170.550+/-0.400 $\chi^2$/NDF: 5817605.6/17

Left In: 3284.936+/-1.022 $\chi^2$/NDF:135999.7/5

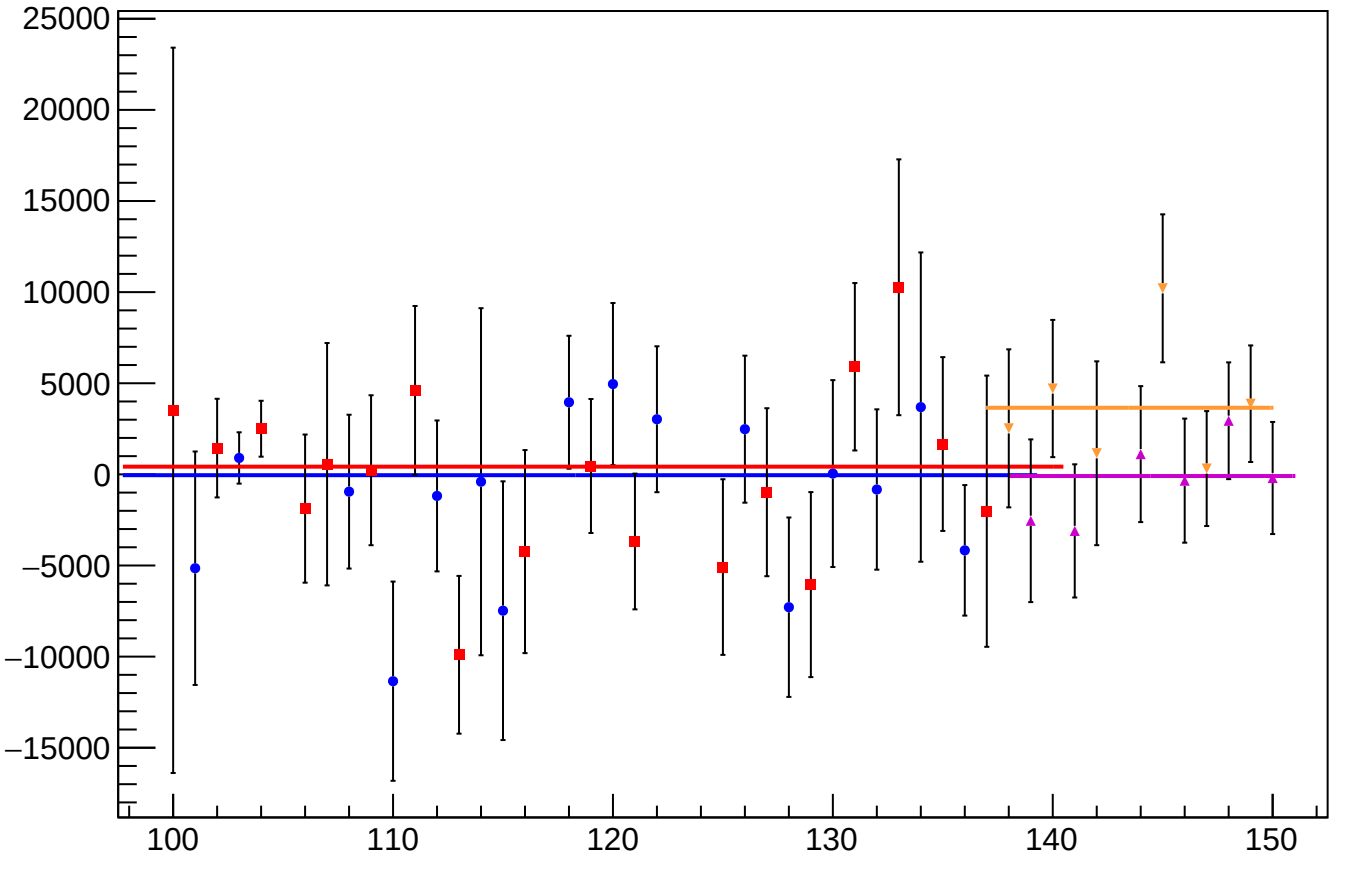
Left: 3269.302+/-0.745 $\chi^2$/NDF: 248284.9/11

Right: 1458.789+/-0.336 $\chi^2$/NDF: 9549586.1/33

In: 2451.626+/-0.529 $\chi^2$/NDF:3019511.4/21

Out: 1417.604+/-0.376 $\chi^2$/NDF:9140531.5/23

All: 1764.333+/-0.306 $\chi^2$/NDF: 14701084.4/4




Right In: -44.874+/-920.736 $\chi^2$/NDF: 13.7/15

Left Out: 3654.857+/-1539.352 $\chi^2$/NDF:4.1/5

Right Out: 423.476+/-896.736 $\chi^2$/NDF: 17.3/17

Left In: -90.570+/-1433.922 $\chi^2$/NDF:2.0/5

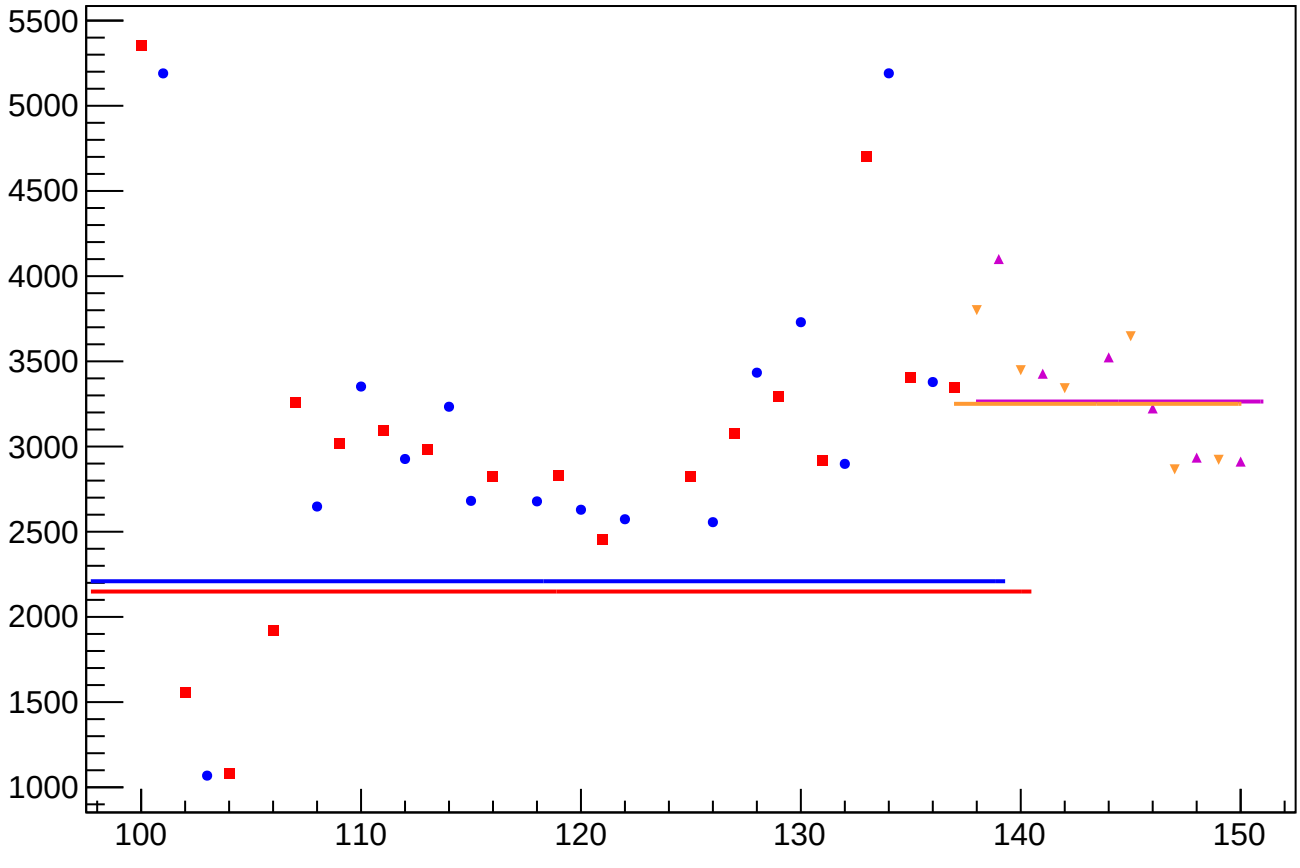
Left: 1649.500+/-1049.230 $\chi^2$/NDF: 9.3/11

Right: 195.485+/-642.405 $\chi^2$/NDF: 31.2/33

In: -58.215+/-774.766 $\chi^2$/NDF:15.7/21

Out: 1242.215+/-774.848 $\chi^2$/NDF:24.8/23

All: 591.932+/-547.872 $\chi^2$/NDF: 41.9/45




Right In: 2209.349+/-0.651 $\chi^2$/NDF: 2836875.7/15

Left Out: 3250.657+/-1.088 $\chi^2$/NDF:108228.3/5

Right Out: 2148.948+/-0.633 $\chi^2$/NDF: 2269660.8/17

Left In: 3264.214+/-1.014 $\chi^2$/NDF:131510.9/5

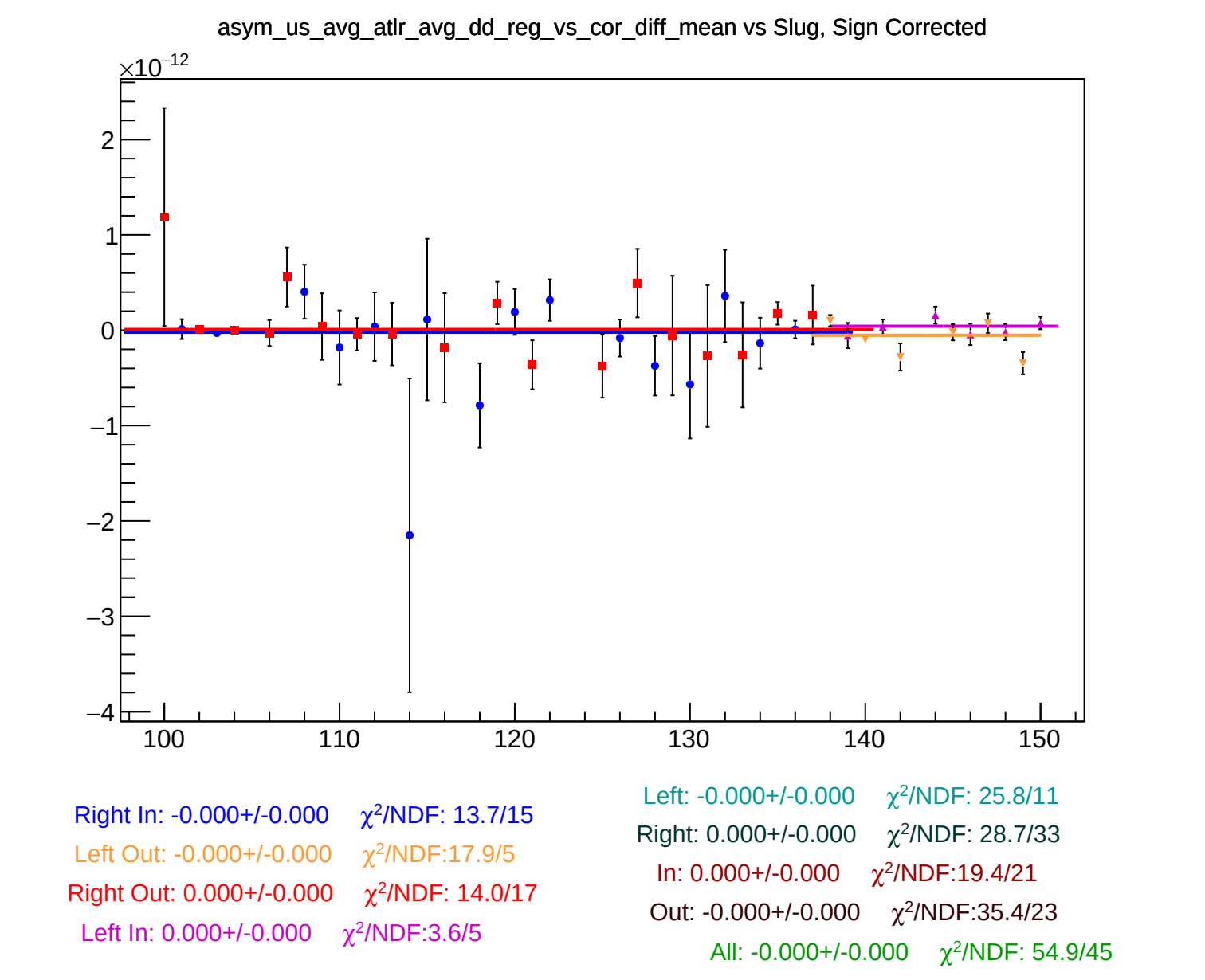
Left: 3257.916+/-0.742 $\chi^2$/NDF: 239822.3/11

Right: 2178.279+/-0.454 $\chi^2$/NDF: 5110964.0/33

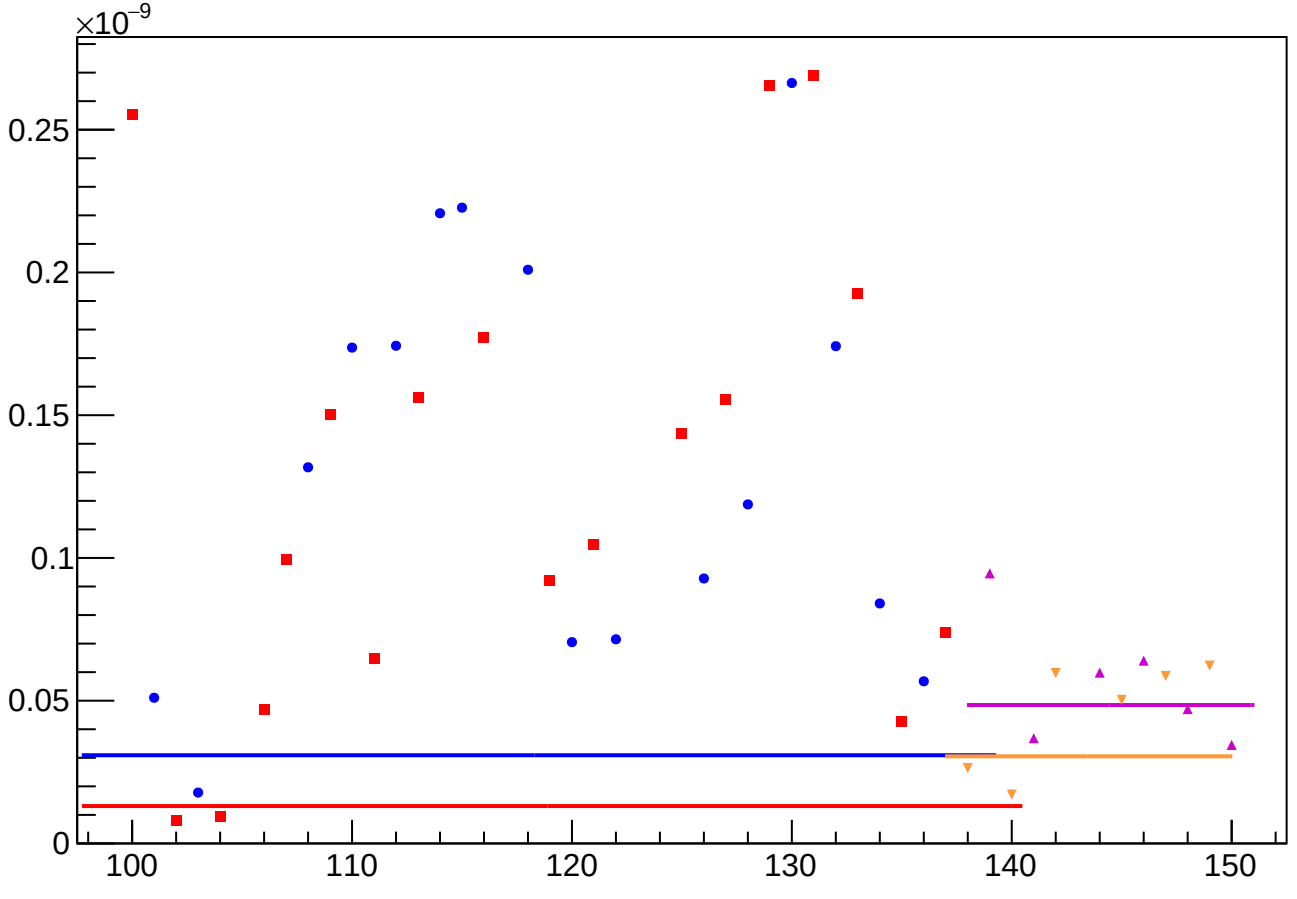
In: 2517.303+/-0.548 $\chi^2$/NDF:3734767.6/21

Out: 2427.092+/-0.547 $\chi^2$/NDF:3143694.1/23

All: 2472.122+/-0.387 $\chi^2$/NDF: 6892041.9/45


asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 13.7/15
Left Out: -0.000+/-0.000 χ²/NDF:17.9/5
Right Out: 0.000+/-0.000 χ²/NDF: 14.0/17
Left In: 0.000+/-0.000 χ²/NDF:3.6/5
Left: -0.000+/-0.000 χ²/NDF: 25.8/11
Right: 0.000+/-0.000 χ²/NDF: 28.7/33
In: 0.000+/-0.000 χ²/NDF:19.4/21
Out: -0.000+/-0.000 χ²/NDF:35.4/23
All: -0.000+/-0.000 χ²/NDF: 54.9/45

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2998577.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:715515.9/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3659260.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:446130.9/5

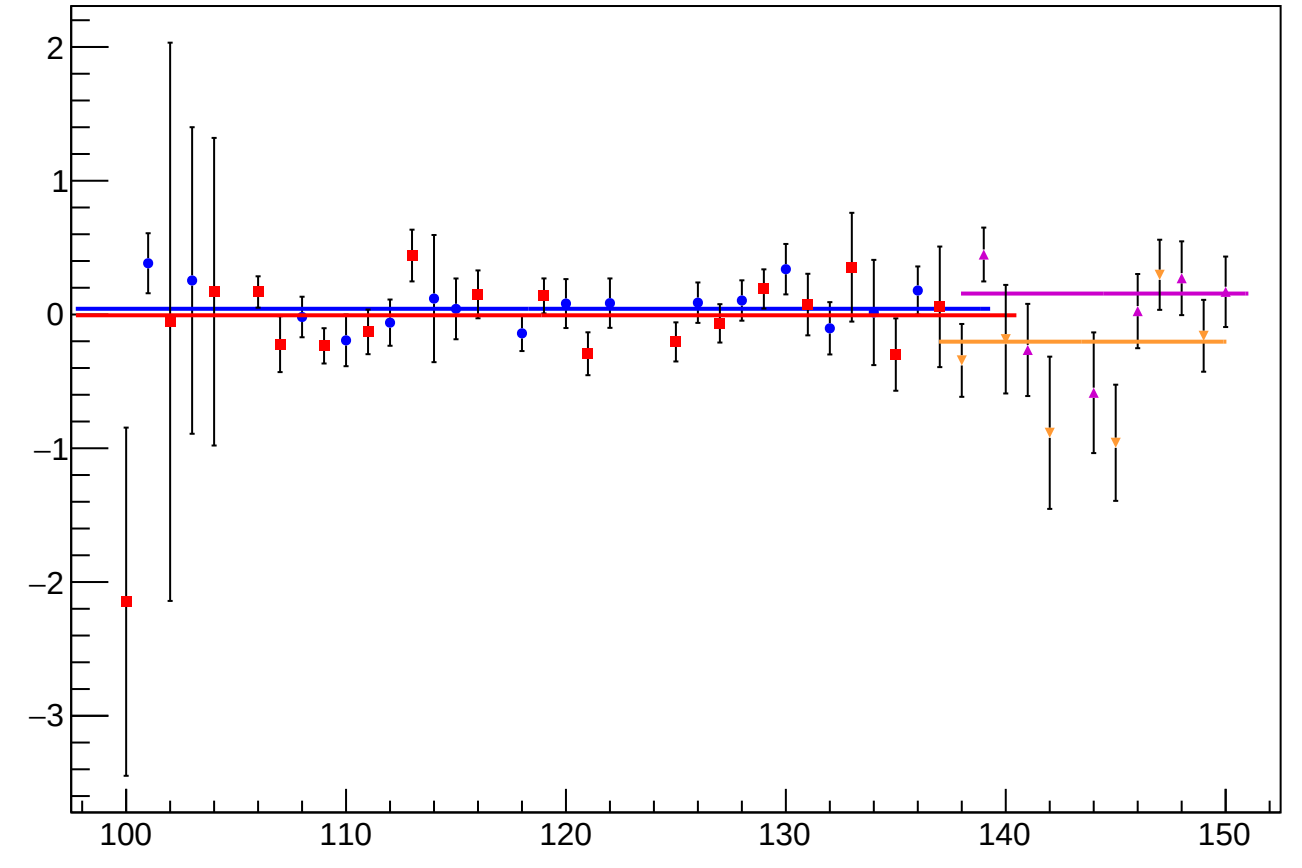
Left: 0.000+/-0.000 $\chi^2$/NDF: 1473030.9/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 7385142.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:3768917.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4961182.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 10065472.6/45




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.203+/-0.133 $\chi^2$/NDF:8.4/5

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.113 $\chi^2$/NDF:6.7/5

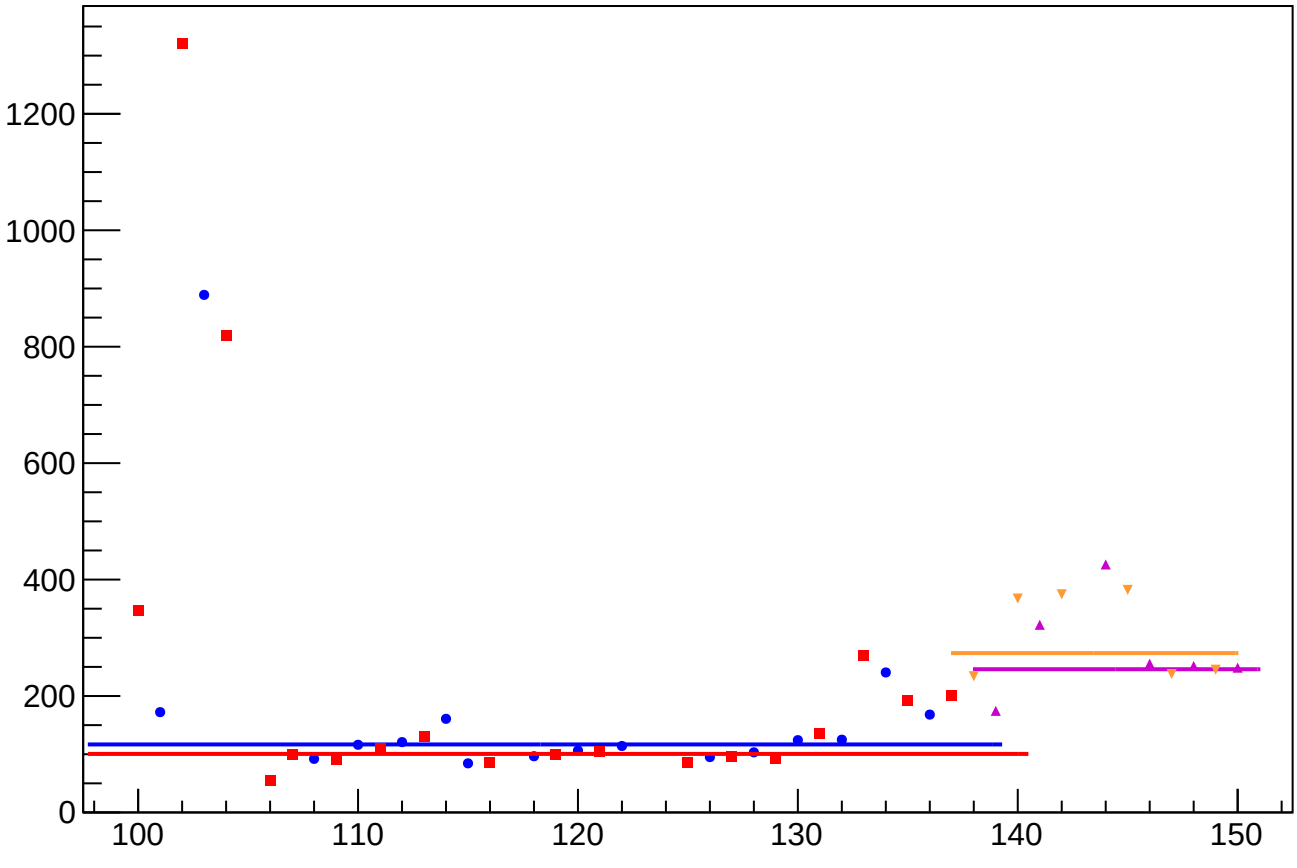
Left: 0.006+/-0.086 $\chi^2$/NDF: 19.3/11

Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.060+/-0.044 $\chi^2$/NDF:17.8/21

Out: -0.025+/-0.041 $\chi^2$/NDF:36.4/23

All: 0.015+/-0.030 $\chi^2$/NDF: 56.2/45




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620809.7/15

Left Out: 273.722+/-0.094 $\chi^2$/NDF:397404.7/5

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 246.024+/-0.080 $\chi^2$/NDF:672066.0/5

Left: 257.592+/-0.061 $\chi^2$/NDF: 1119825.5/11

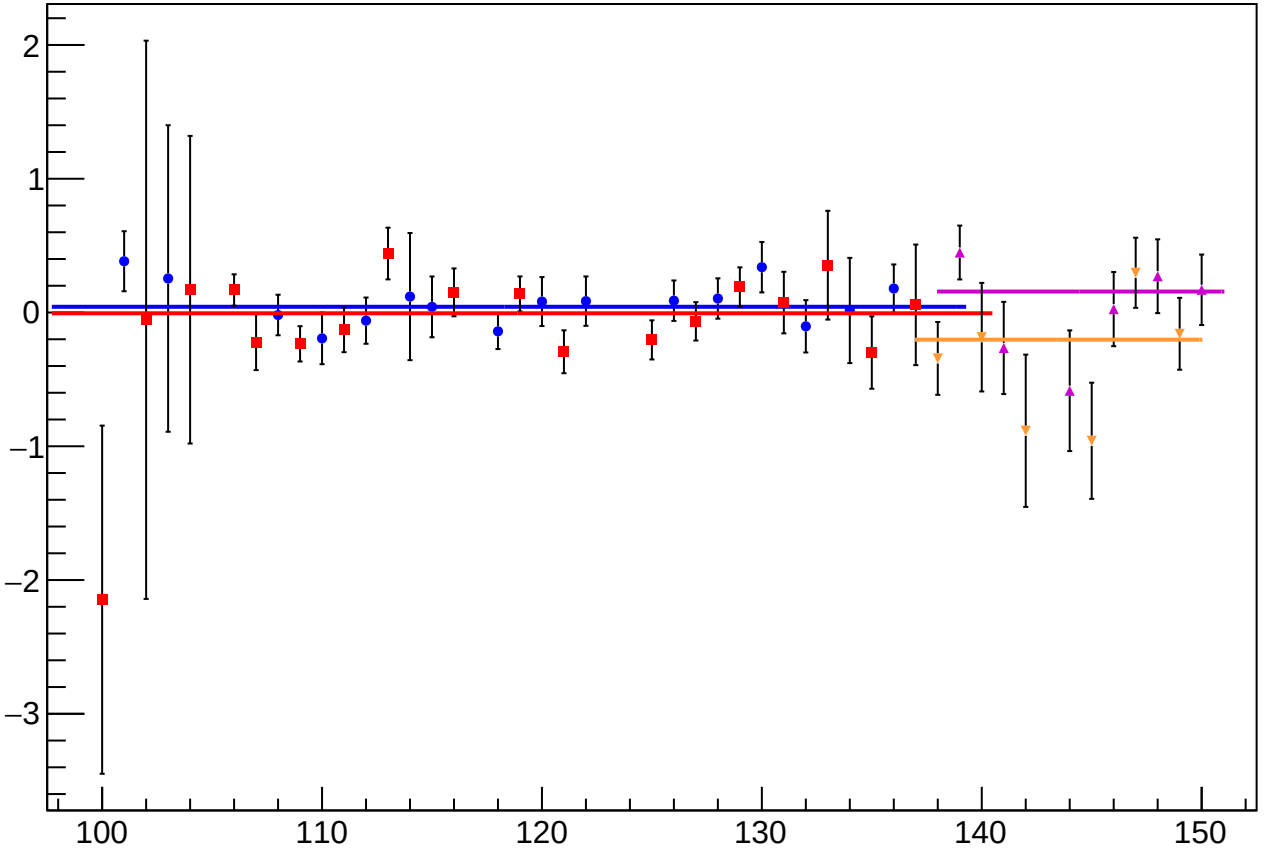
Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 136.272+/-0.031 $\chi^2$/NDF:4521108.0/21

Out: 117.149+/-0.029 $\chi^2$/NDF:6117659.6/23

All: 126.148+/-0.021 $\chi^2$/NDF: 10841047.4/45

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.203+/-0.133 $\chi^2$/NDF:8.4/5

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.113 $\chi^2$/NDF:6.7/5

Left: 0.006+/-0.086 $\chi^2$/NDF: 19.3/11

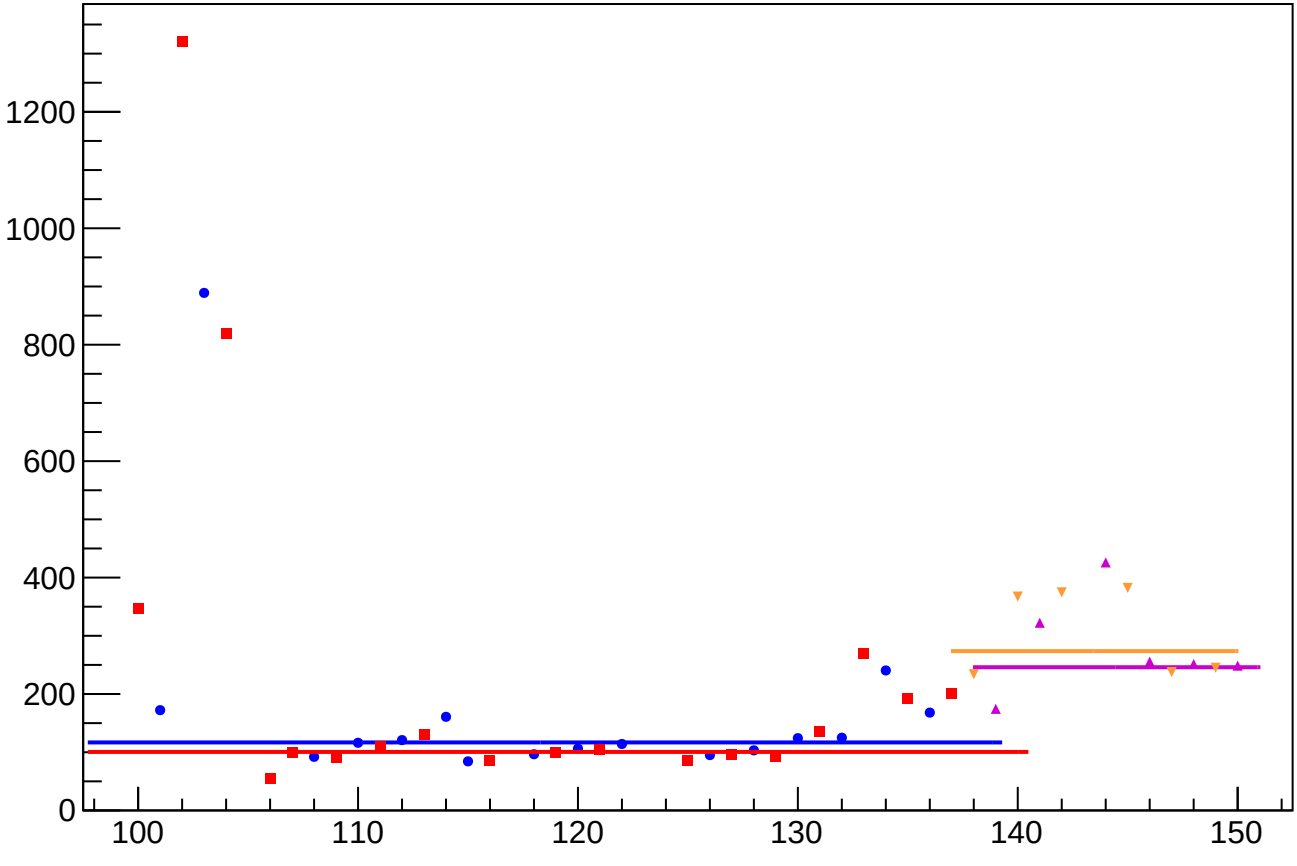
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.060+/-0.044 $\chi^2$/NDF:17.8/21

Out: -0.025+/-0.041 $\chi^2$/NDF:36.4/23

All: 0.015+/-0.030 $\chi^2$/NDF: 56.2/45

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620809.7/15

Left Out: 273.722+/-0.094 $\chi^2$/NDF:397404.7/5

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 246.024+/-0.080 $\chi^2$/NDF:672066.0/5

Left: 257.592+/-0.061 $\chi^2$/NDF: 1119825.5/11

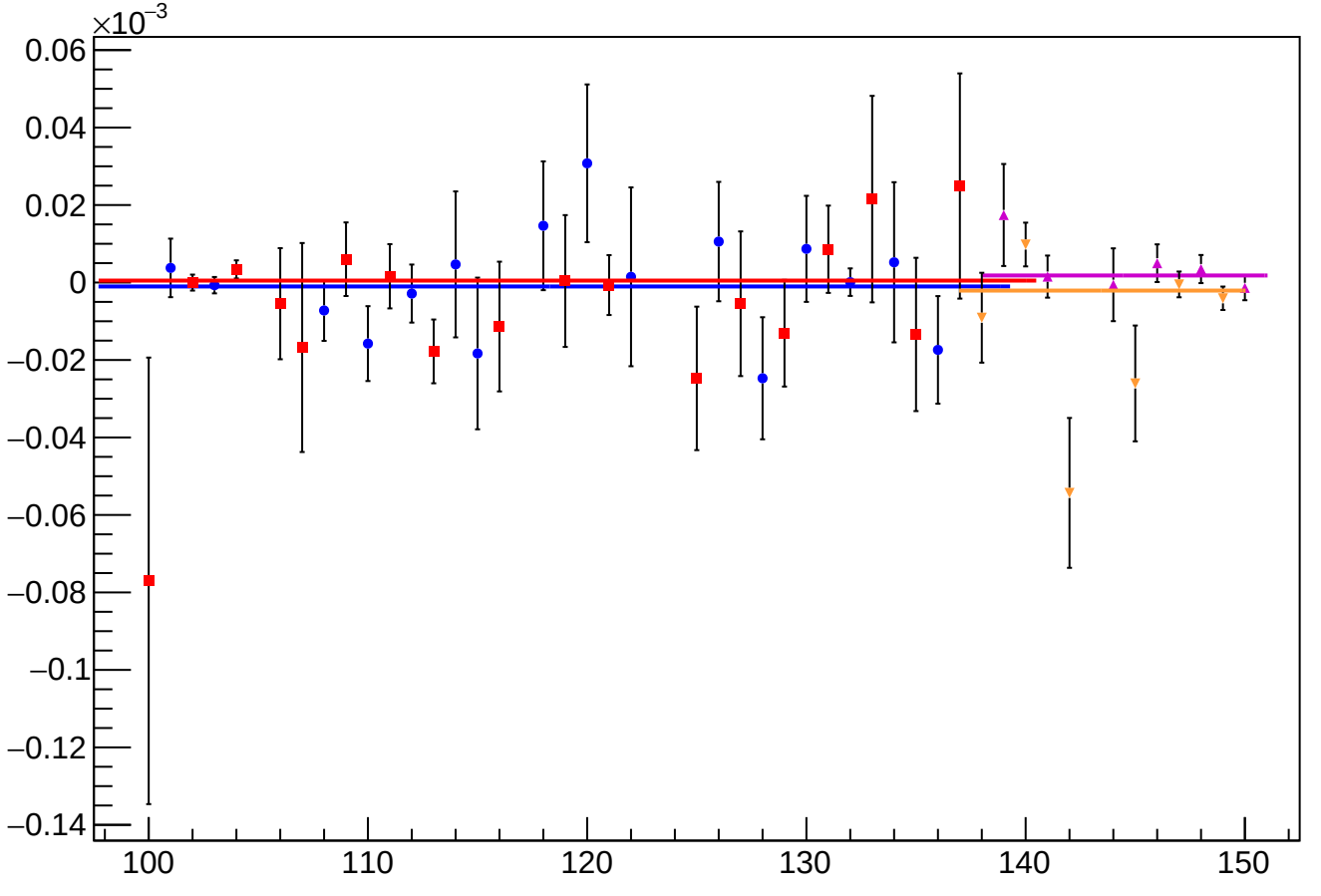
Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 136.272+/-0.031 $\chi^2$/NDF:4521108.0/21

Out: 117.149+/-0.029 $\chi^2$/NDF:6117659.6/23

All: 126.148+/-0.021 $\chi^2$/NDF: 10841047.4/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.1/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 20.4/11

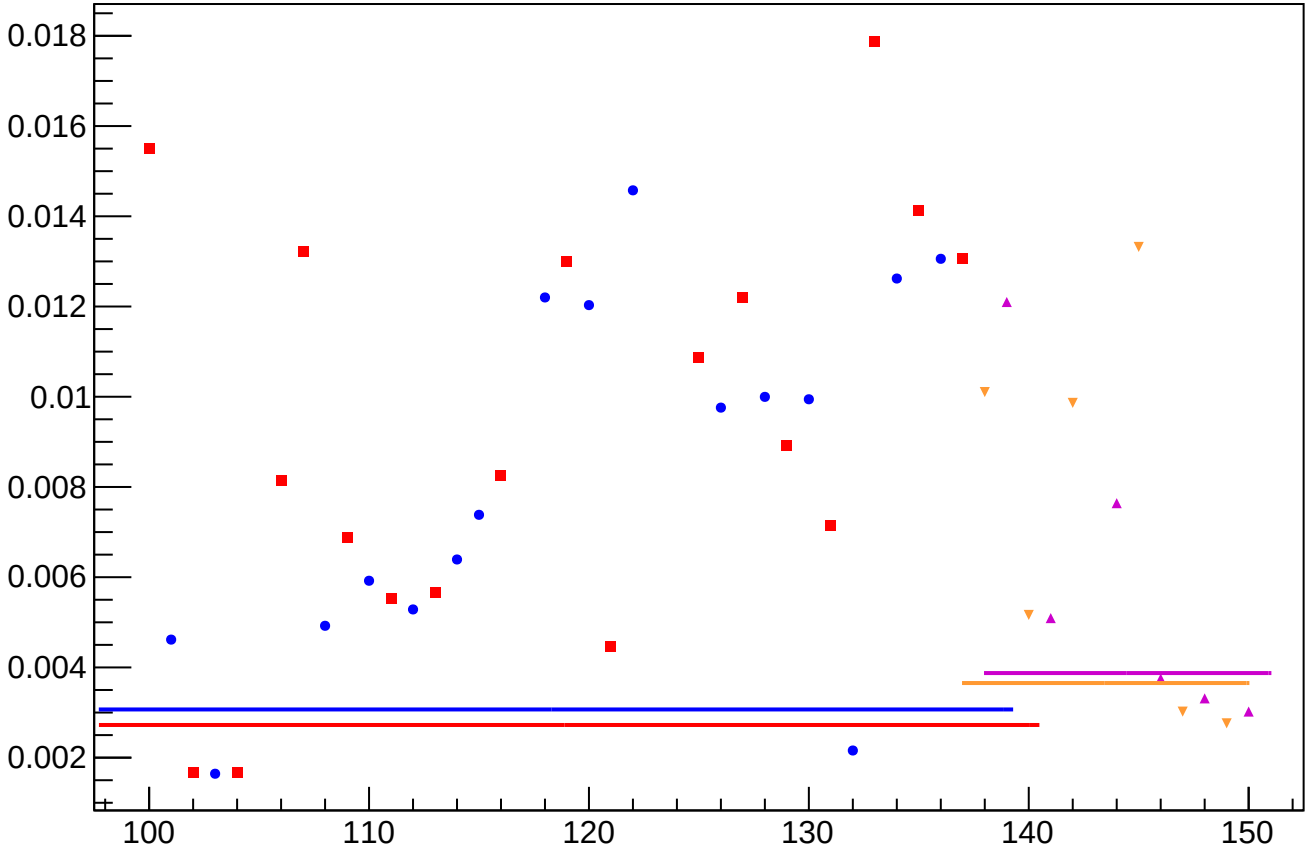
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:31.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 48.5/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5964299.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2051306.8/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6713699.1/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1394030.5/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 3457850.7/11

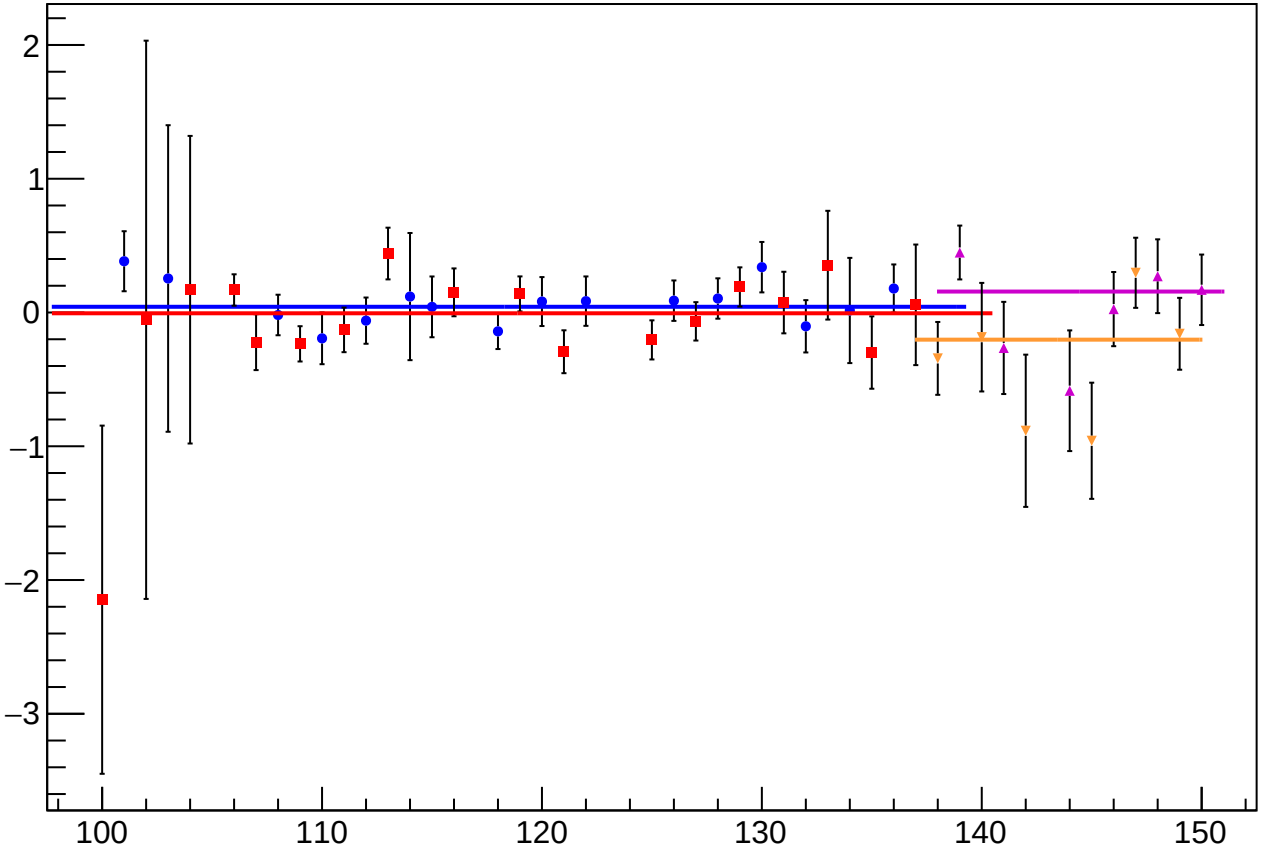
Right: 0.003+/-0.000 $\chi^2$/NDF: 12731216.4/33

In: 0.003+/-0.000 $\chi^2$/NDF:7566824.8/21

Out: 0.003+/-0.000 $\chi^2$/NDF:9052431.9/23

All: 0.003+/-0.000 $\chi^2$/NDF: 16714256.9/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.203+/-0.133 $\chi^2$/NDF:8.4/5

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.113 $\chi^2$/NDF:6.7/5

Left: 0.006+/-0.086 $\chi^2$/NDF: 19.3/11

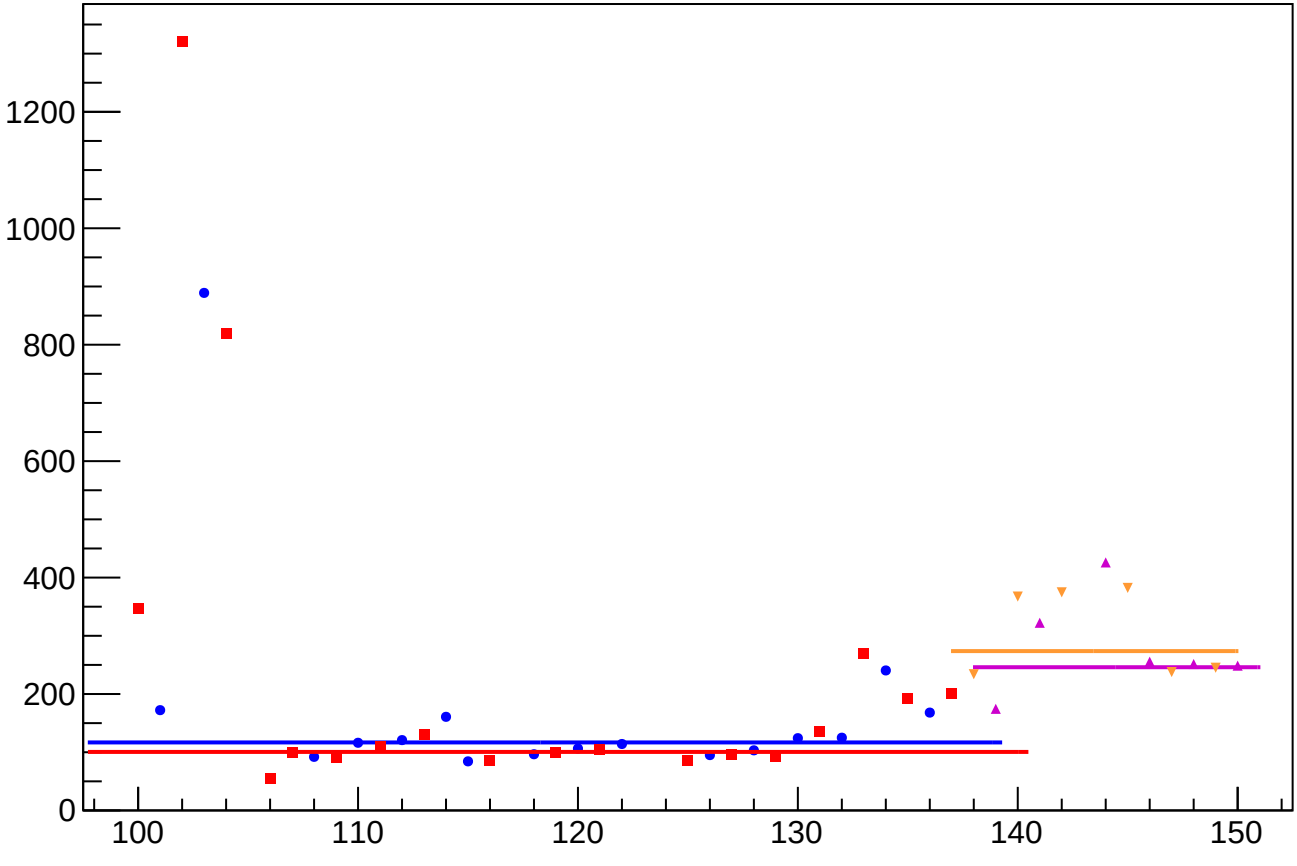
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.060+/-0.044 $\chi^2$/NDF:17.8/21

Out: -0.025+/-0.041 $\chi^2$/NDF:36.4/23

All: 0.015+/-0.030 $\chi^2$/NDF: 56.2/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620812.6/15

Left Out: 273.725+/-0.094 $\chi^2$/NDF:397407.1/5

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 246.028+/-0.080 $\chi^2$/NDF:672037.0/5

Left: 257.596+/-0.061 $\chi^2$/NDF: 1119793.5/11

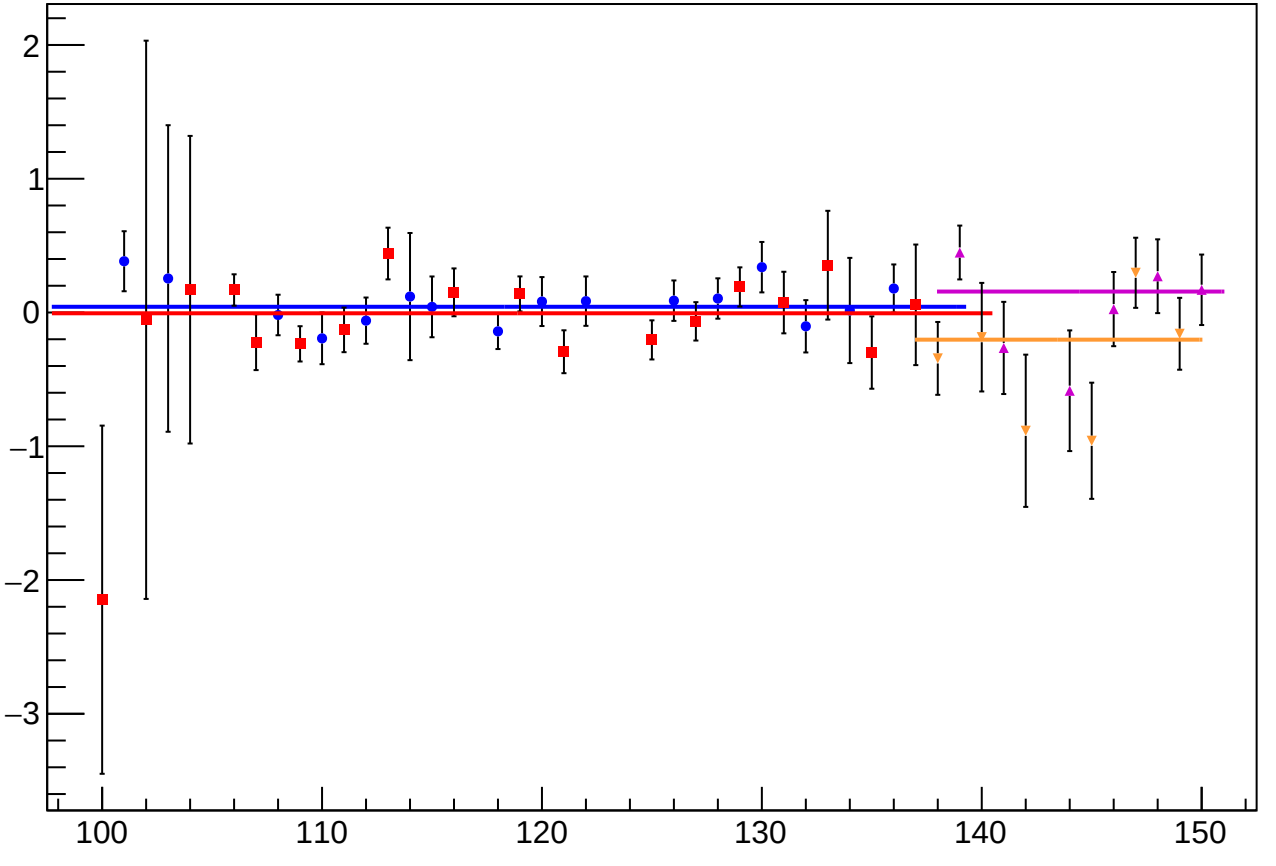
Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 136.272+/-0.031 $\chi^2$/NDF:4521161.7/21

Out: 117.148+/-0.029 $\chi^2$/NDF:6117819.5/23

All: 126.147+/-0.021 $\chi^2$/NDF: 10841284.5/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.203+/-0.133 $\chi^2$/NDF:8.4/5

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.113 $\chi^2$/NDF:6.7/5

Left: 0.006+/-0.086 $\chi^2$/NDF: 19.3/11

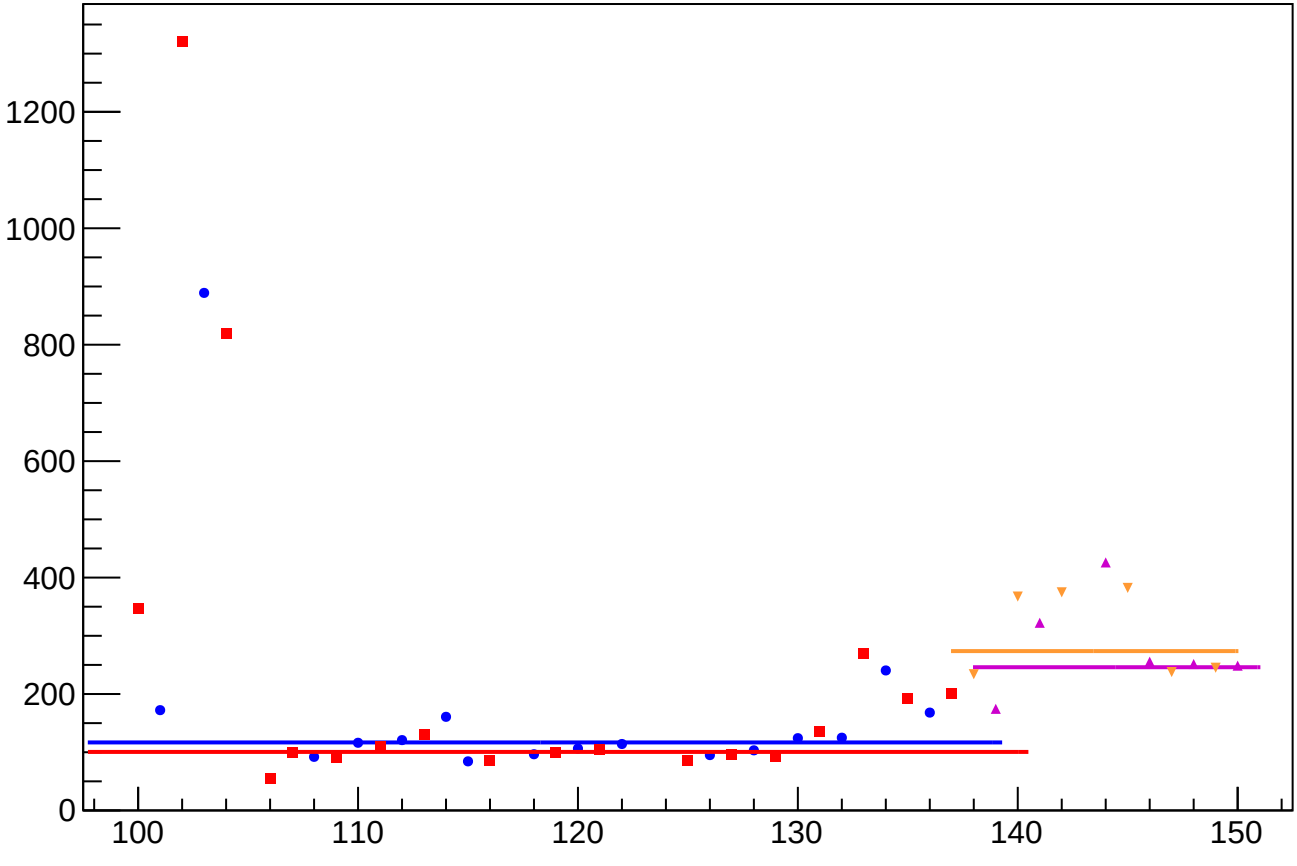
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.060+/-0.044 $\chi^2$/NDF:17.8/21

Out: -0.025+/-0.041 $\chi^2$/NDF:36.4/23

All: 0.015+/-0.030 $\chi^2$/NDF: 56.2/45

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620812.6/15

Left Out: 273.725+/-0.094 $\chi^2$/NDF:397407.1/5

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 246.028+/-0.080 $\chi^2$/NDF:672037.0/5

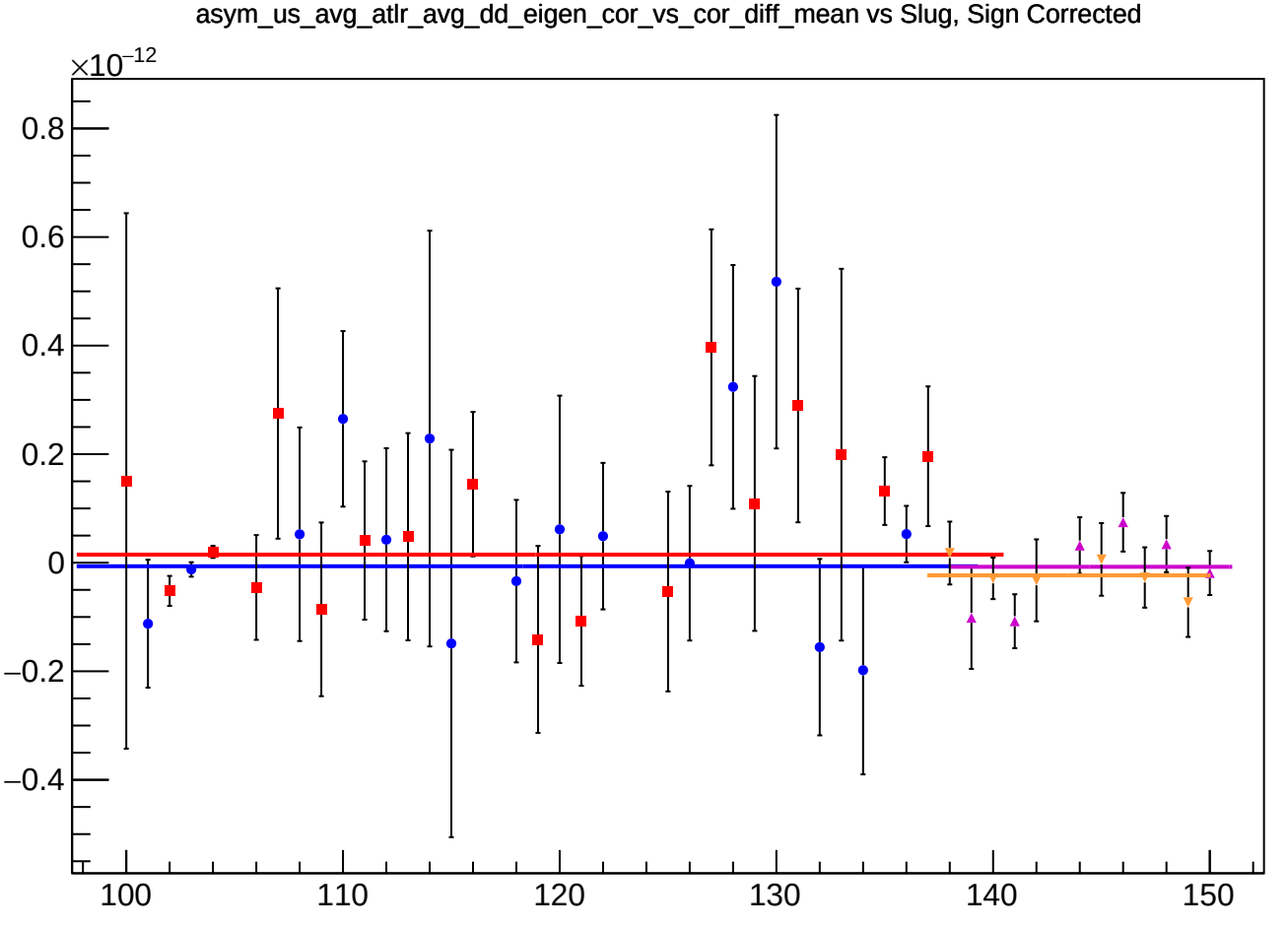
Left: 257.596+/-0.061 $\chi^2$/NDF: 1119793.5/11

Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 136.272+/-0.031 $\chi^2$/NDF:4521161.7/21

Out: 117.148+/-0.029 $\chi^2$/NDF:6117819.5/23

All: 126.147+/-0.021 $\chi^2$/NDF: 10841284.5/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.7/5

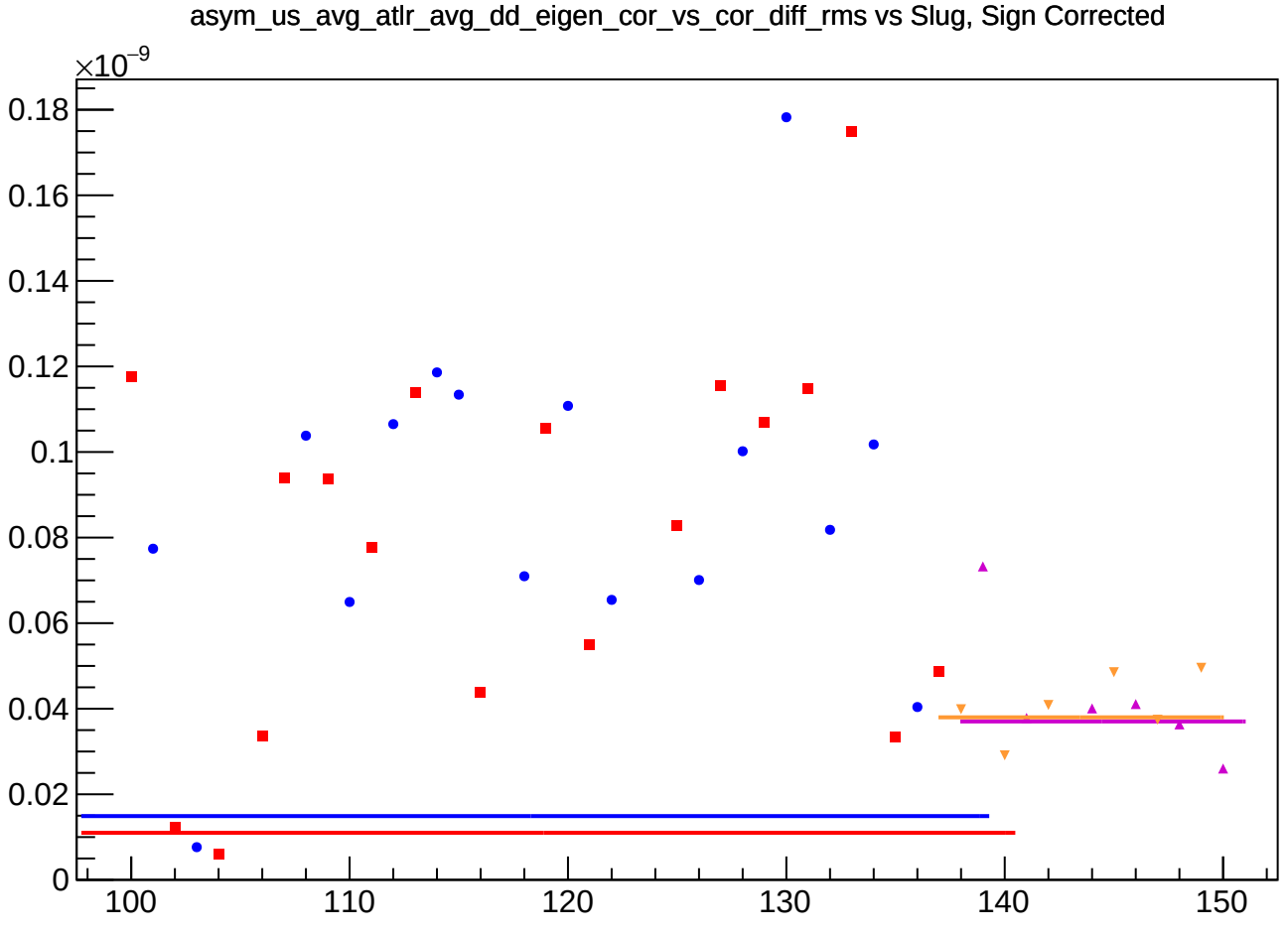
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.3/11

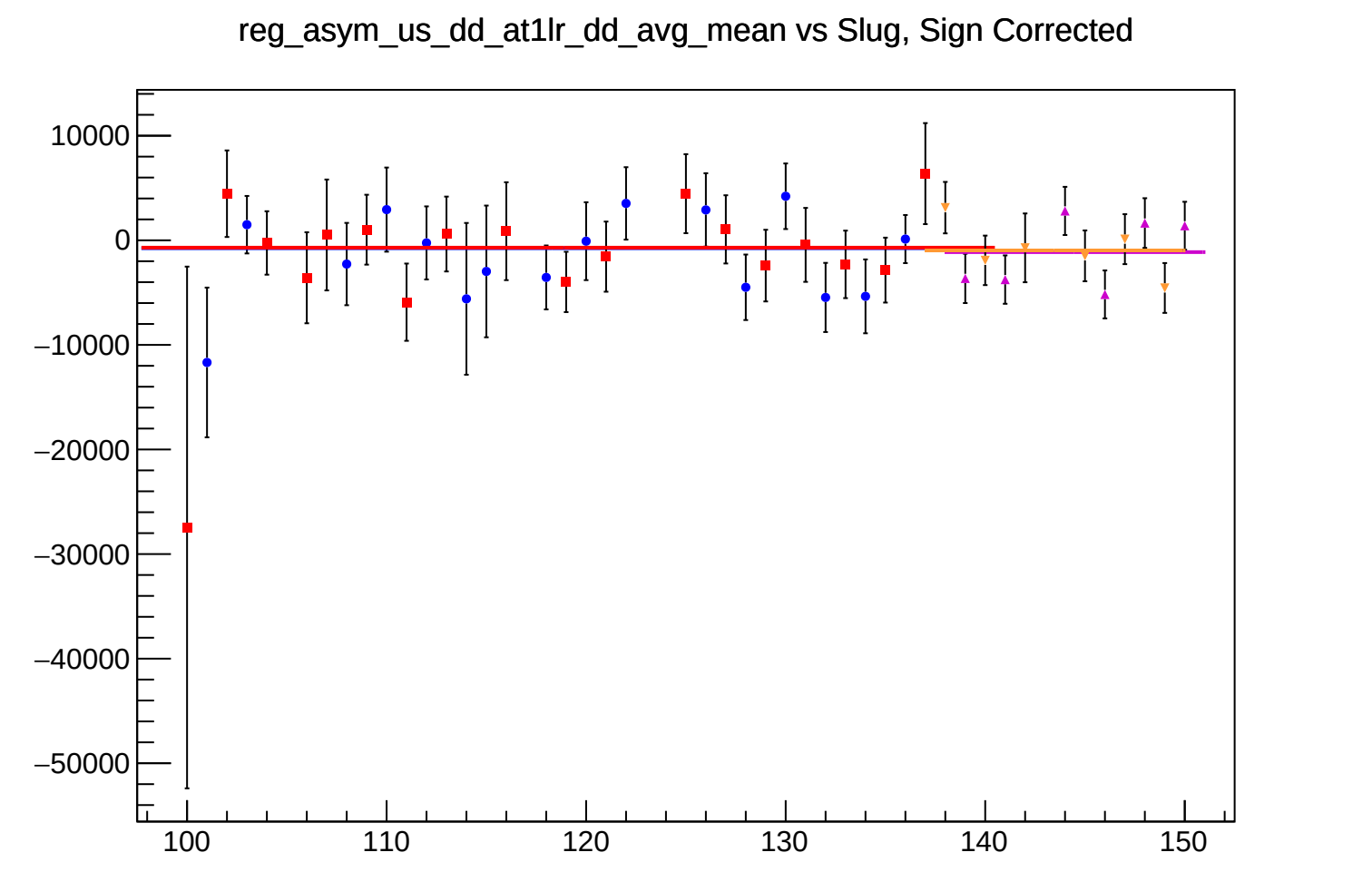
Right: 0.000+/-0.000 $\chi^2$/NDF: 36.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:21.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.6/45


asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 5893030.9/15
Left Out: 0.000+/-0.000 χ²/NDF:228785.6/5
Right Out: 0.000+/-0.000 χ²/NDF: 5866969.2/17
Left In: 0.000+/-0.000 χ²/NDF:461981.3/5
Left: 0.000+/-0.000 χ²/NDF: 692695.7/11
Right: 0.000+/-0.000 χ²/NDF: 11880361.2/33
In: 0.000+/-0.000 χ²/NDF:7963970.7/21
Out: 0.000+/-0.000 χ²/NDF:8483620.2/23
All: 0.000+/-0.000 χ²/NDF: 16725247.1/45




Right In: -754.291+/-872.652 $\chi^2$/NDF: 15.9/15

Left Out: -969.763+/-1022.130 $\chi^2$/NDF:5.5/5

Right Out: -702.198+/-868.647 $\chi^2$/NDF: 12.4/17

Left In: -1129.086+/-948.091 $\chi^2$/NDF:11.0/5

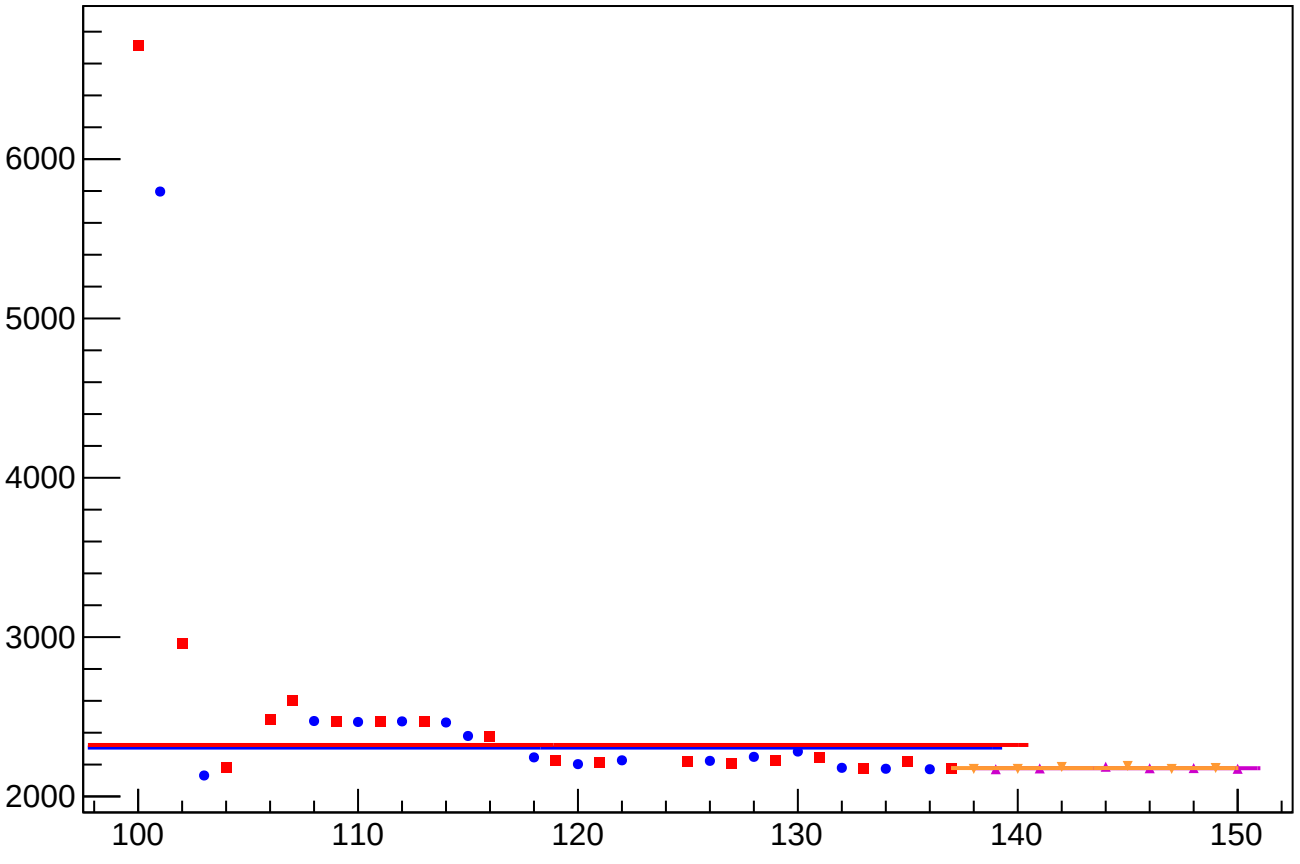
Left: -1055.403+/-695.104 $\chi^2$/NDF: 16.5/11

Right: -728.125+/-615.637 $\chi^2$/NDF: 28.2/33

In: -926.187+/-642.074 $\chi^2$/NDF:27.0/21

Out: -814.403+/-661.908 $\chi^2$/NDF:17.9/23

All: -871.995+/-460.867 $\chi^2$/NDF: 44.9/45




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.3/15

Left Out: 2178.062+/-0.723 $\chi^2$/NDF:97.9/5

Right Out: 2323.010+/-0.614 $\chi^2$/NDF: 151787.1/17

Left In: 2177.096+/-0.670 $\chi^2$/NDF:52.7/5

Left: 2177.543+/-0.492 $\chi^2$/NDF: 151.5/11

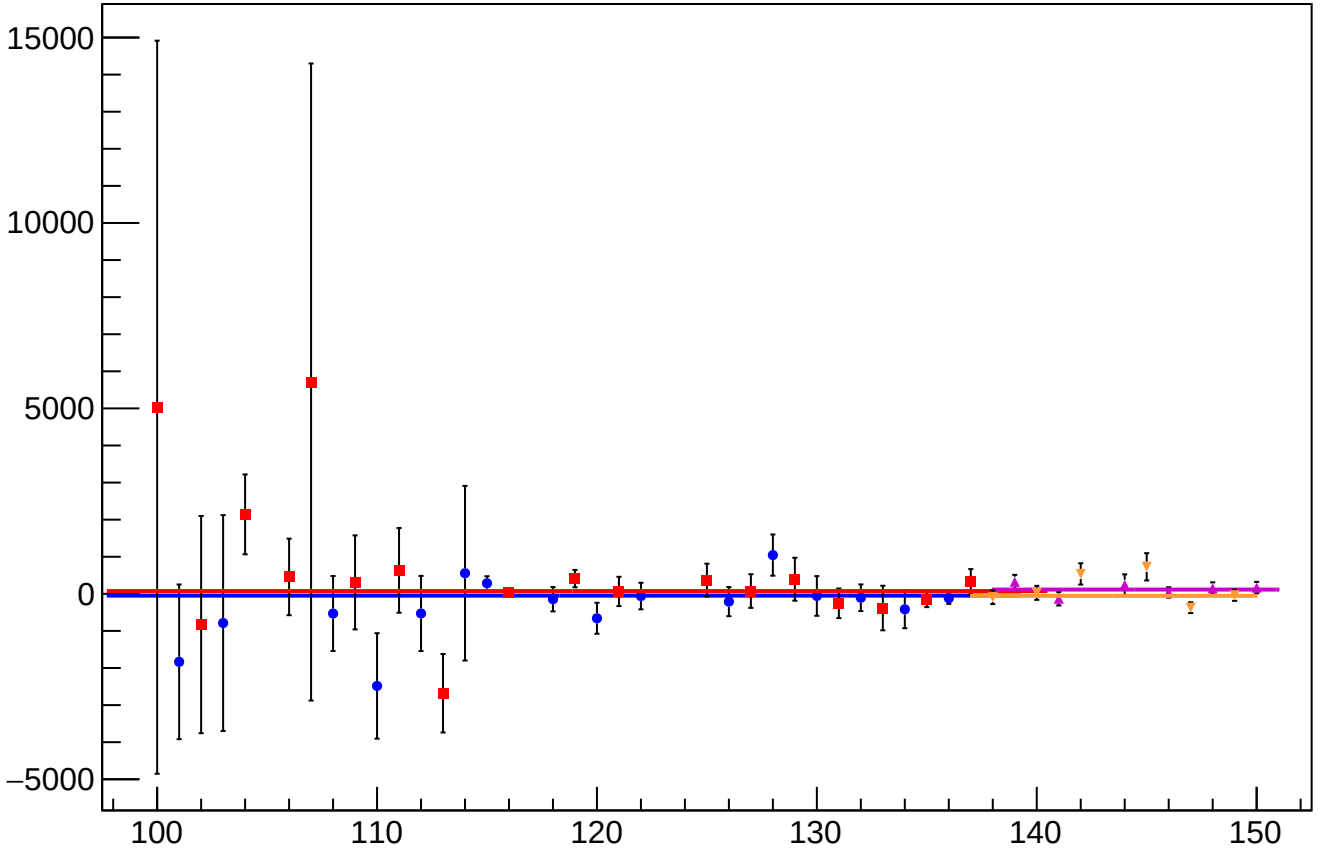
Right: 2314.864+/-0.435 $\chi^2$/NDF: 666290.7/33

In: 2247.228+/-0.454 $\chi^2$/NDF:534418.0/21

Out: 2262.225+/-0.468 $\chi^2$/NDF:175238.5/23

All: 2254.499+/-0.326 $\chi^2$/NDF: 710185.5/45

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -47.927+/-90.914 $\chi^2$/NDF: 14.4/15

Left Out: -53.767+/-77.508 $\chi^2$/NDF:13.7/5

Right Out: 74.200+/-82.384 $\chi^2$/NDF: 17.6/17

Left In: 114.853+/-70.074 $\chi^2$/NDF:3.8/5

Left: 39.014+/-51.980 $\chi^2$/NDF: 20.1/11

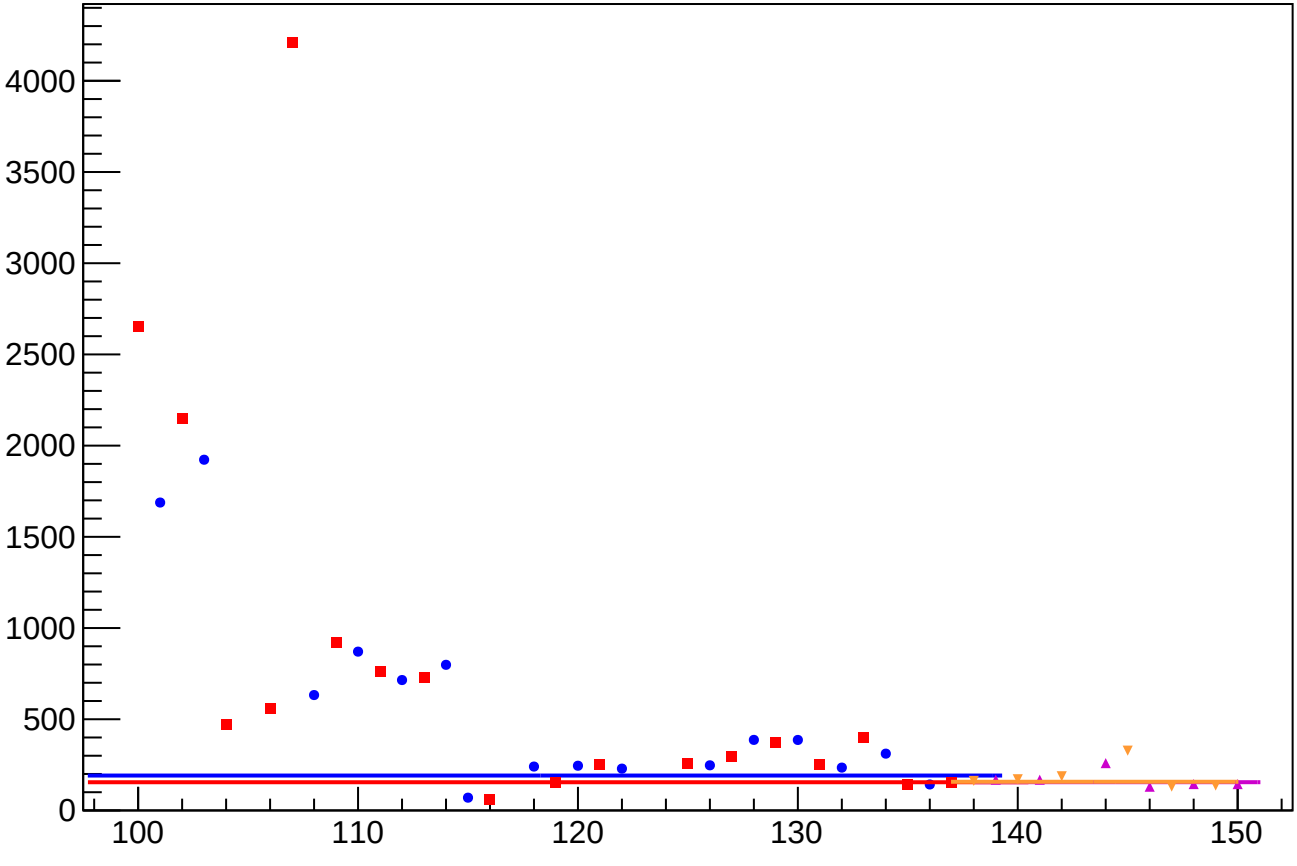
Right: 19.134+/-61.048 $\chi^2$/NDF: 33.0/33

In: 54.188+/-55.501 $\chi^2$/NDF:20.1/21

Out: 6.317+/-56.451 $\chi^2$/NDF:32.7/23

All: 30.659+/-39.577 $\chi^2$/NDF: 53.2/45

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 191.381+/-0.064 $\chi^2$/NDF: 5064747.7/15

Left Out: 157.249+/-0.055 $\chi^2$/NDF:568785.4/5

Right Out: 154.677+/-0.058 $\chi^2$/NDF: 6154285.9/17

Left In: 154.927+/-0.050 $\chi^2$/NDF:375788.6/5

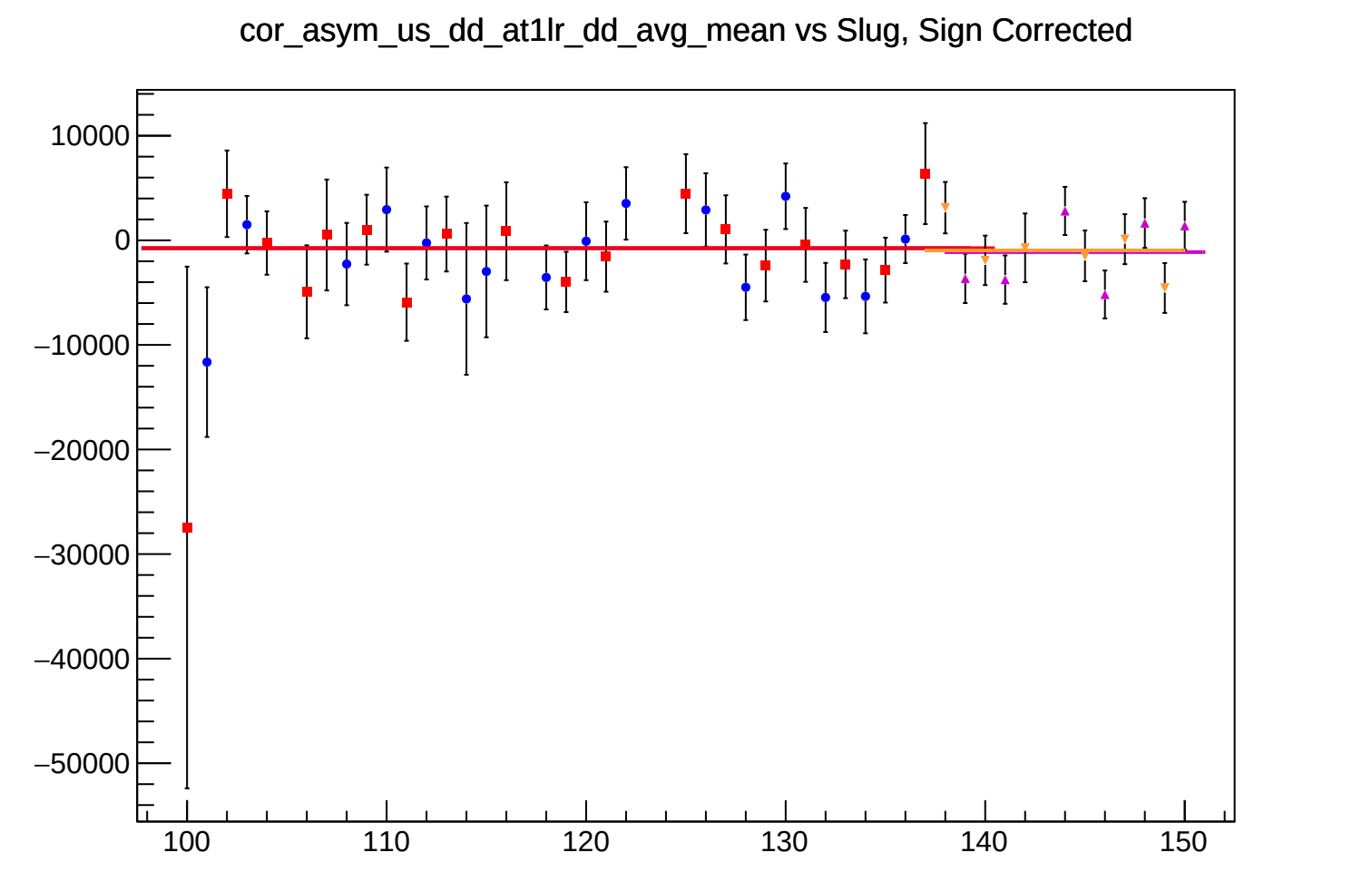
Left: 155.972+/-0.037 $\chi^2$/NDF: 945561.7/11

Right: 171.226+/-0.043 $\chi^2$/NDF: 11398031.5/33

In: 168.513+/-0.039 $\chi^2$/NDF:5642247.6/21

Out: 156.041+/-0.040 $\chi^2$/NDF:6724105.8/23

All: 162.383+/-0.028 $\chi^2$/NDF: 12415989.2/45




Right In: -753.322+/-872.653 $\chi^2$/NDF: 15.9/15

Left Out: -969.739+/-1022.130 $\chi^2$/NDF:5.5/5

Right Out: -749.316+/-869.366 $\chi^2$/NDF: 12.8/17

Left In: -1129.191+/-948.091 $\chi^2$/NDF:11.0/5

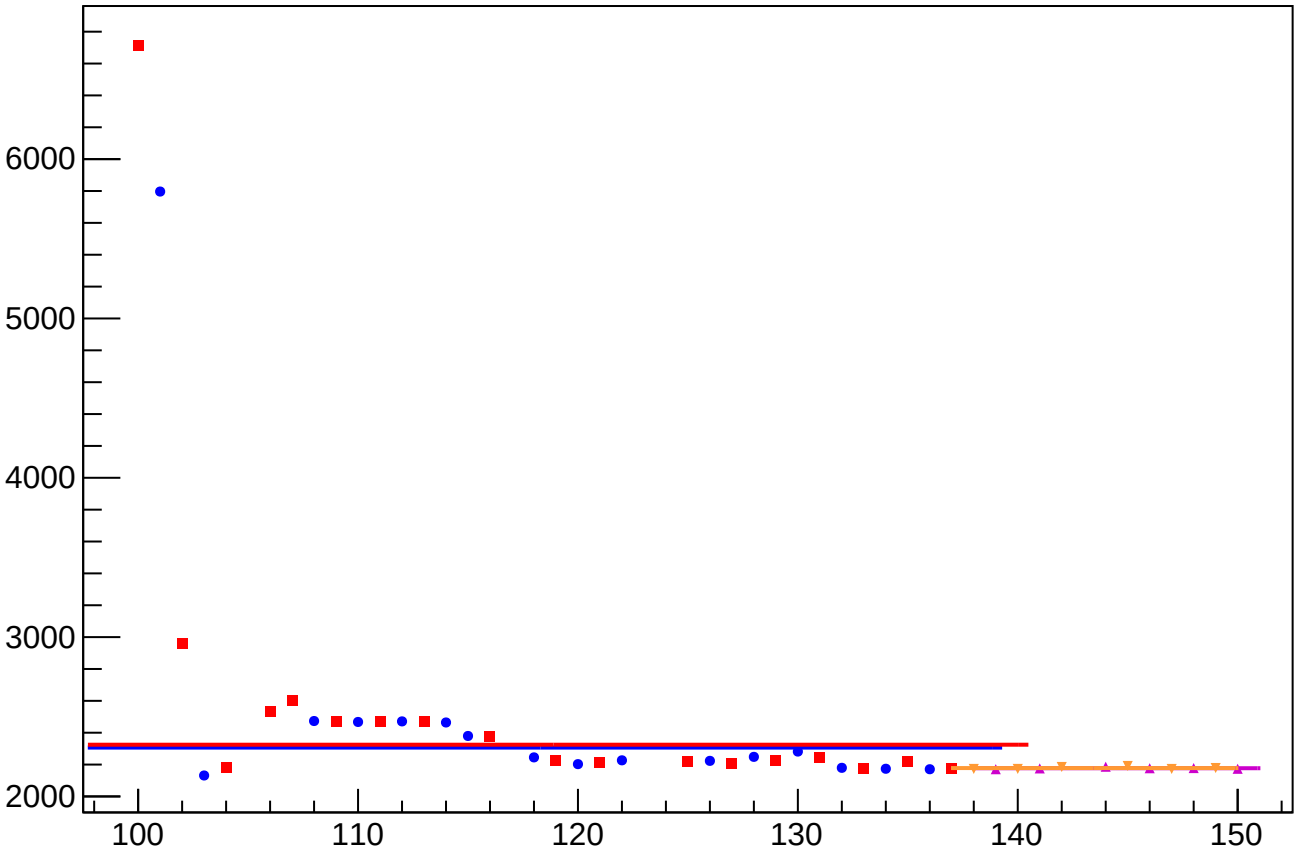
Left: -1055.448+/-695.104 $\chi^2$/NDF: 16.5/11

Right: -751.312+/-615.893 $\chi^2$/NDF: 28.7/33

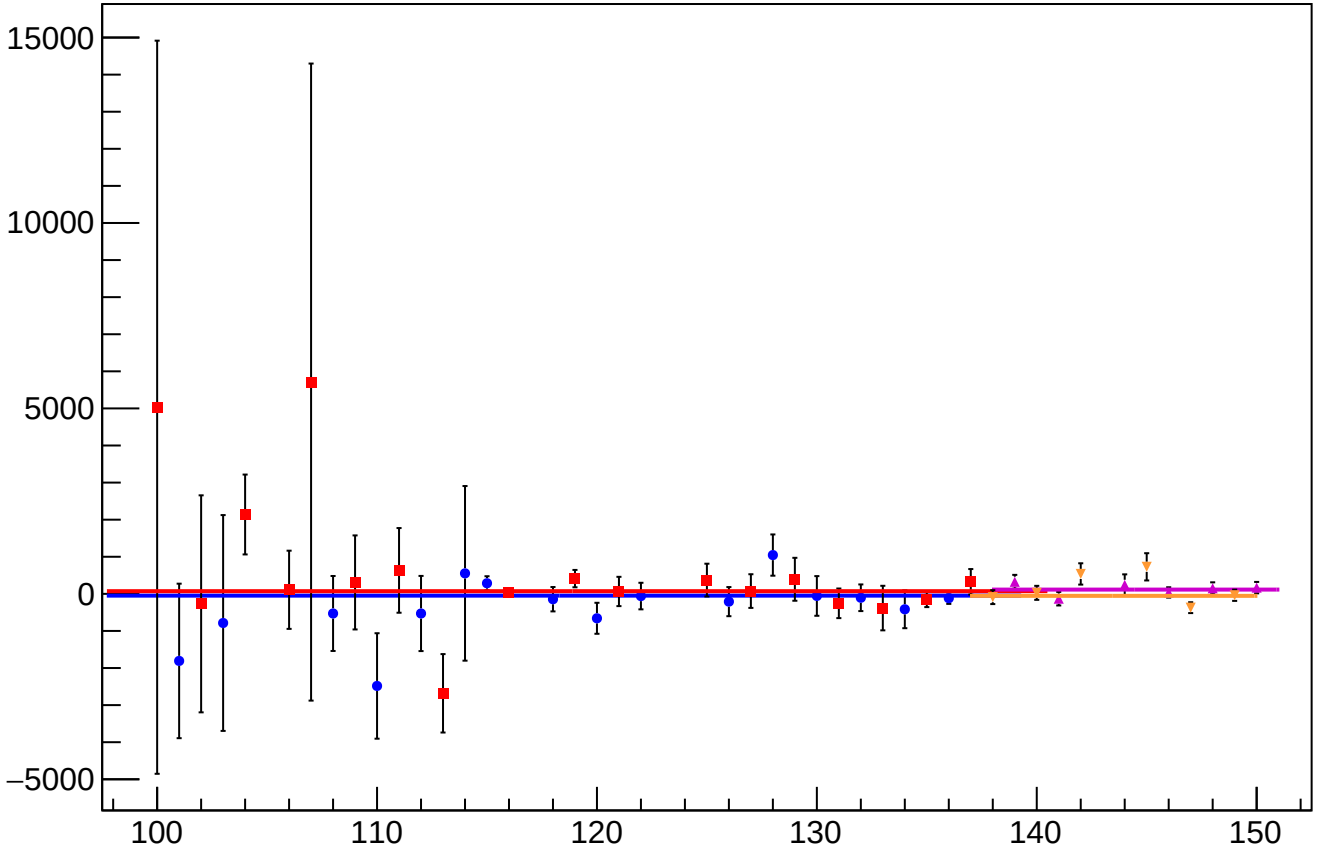
In: -925.710+/-642.074 $\chi^2$/NDF:27.0/21

Out: -841.841+/-662.226 $\chi^2$/NDF:18.3/23

All: -885.071+/-460.975 $\chi^2$/NDF: 45.3/45


cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
110
120
130
140
150
Right In: 2306.643+/-0.617 χ²/NDF: 514150.6/15
Left Out: 2178.062+/-0.723 χ²/NDF:97.9/5
Right Out: 2324.685+/-0.615 χ²/NDF: 153578.5/17
Left In: 2177.096+/-0.670 χ²/NDF:52.7/5
Left: 2177.543+/-0.492 χ²/NDF: 151.5/11
Right: 2315.698+/-0.436 χ²/NDF: 668158.1/33
In: 2247.228+/-0.454 χ²/NDF:534418.3/21
Out: 2263.139+/-0.468 χ²/NDF:177556.0/23
All: 2254.938+/-0.326 χ²/NDF: 712569.4/45

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -47.960+/-90.920 $\chi^2$/NDF: 14.4/15

Left Out: -53.887+/-77.508 $\chi^2$/NDF:13.7/5

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 114.834+/-70.079 $\chi^2$/NDF:3.7/5

Left: 38.944+/-51.982 $\chi^2$/NDF: 20.1/11

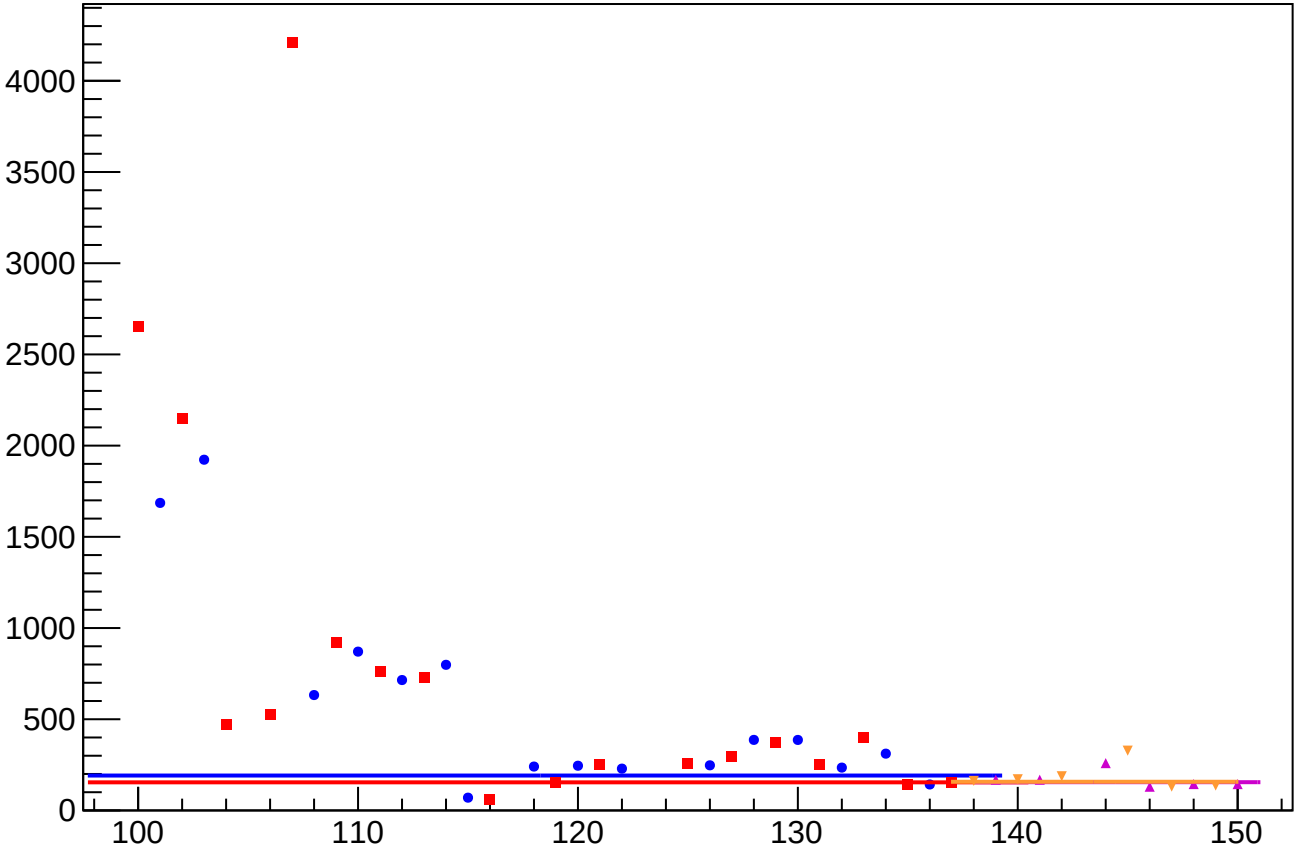
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 54.162+/-55.505 $\chi^2$/NDF:20.1/21

Out: 5.361+/-56.432 $\chi^2$/NDF:32.4/23

All: 30.166+/-39.571 $\chi^2$/NDF: 52.9/45

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 191.405+/-0.064 $\chi^2$/NDF: 5063603.7/15

Left Out: 157.248+/-0.055 $\chi^2$/NDF:568892.2/5

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 154.941+/-0.050 $\chi^2$/NDF:375689.1/5

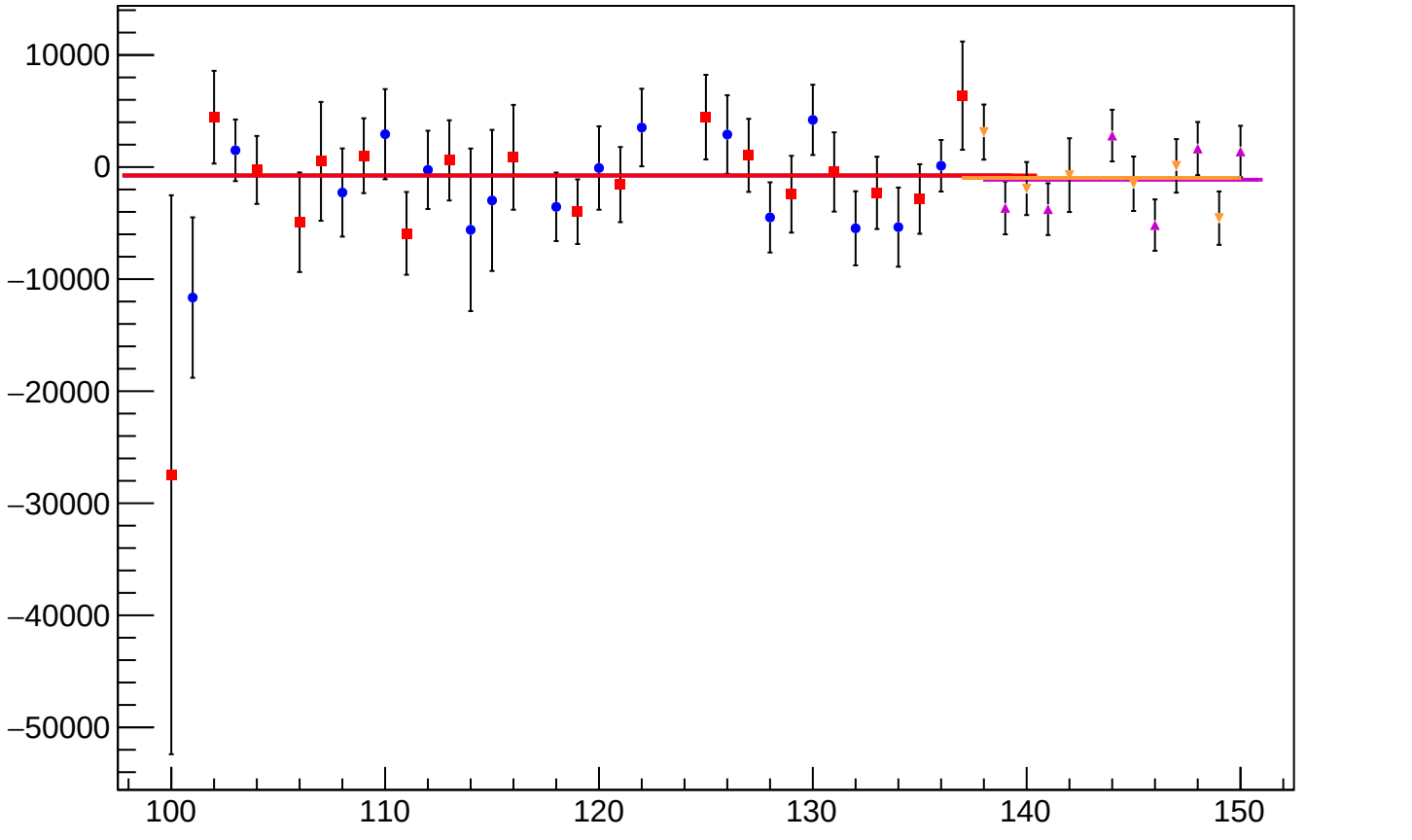
Left: 155.979+/-0.037 $\chi^2$/NDF: 945555.6/11

Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 168.531+/-0.039 $\chi^2$/NDF:5641089.7/21

Out: 155.779+/-0.040 $\chi^2$/NDF:6679086.5/23

All: 162.260+/-0.028 $\chi^2$/NDF: 12372088.6/45




Right In: -753.322+/-872.653 $\chi^2$/NDF: 15.9/15

Left Out: -969.739+/-1022.130 $\chi^2$/NDF:5.5/5

Right Out: -749.316+/-869.366 $\chi^2$/NDF: 12.8/17

Left In: -1129.191+/-948.091 $\chi^2$/NDF:11.0/5

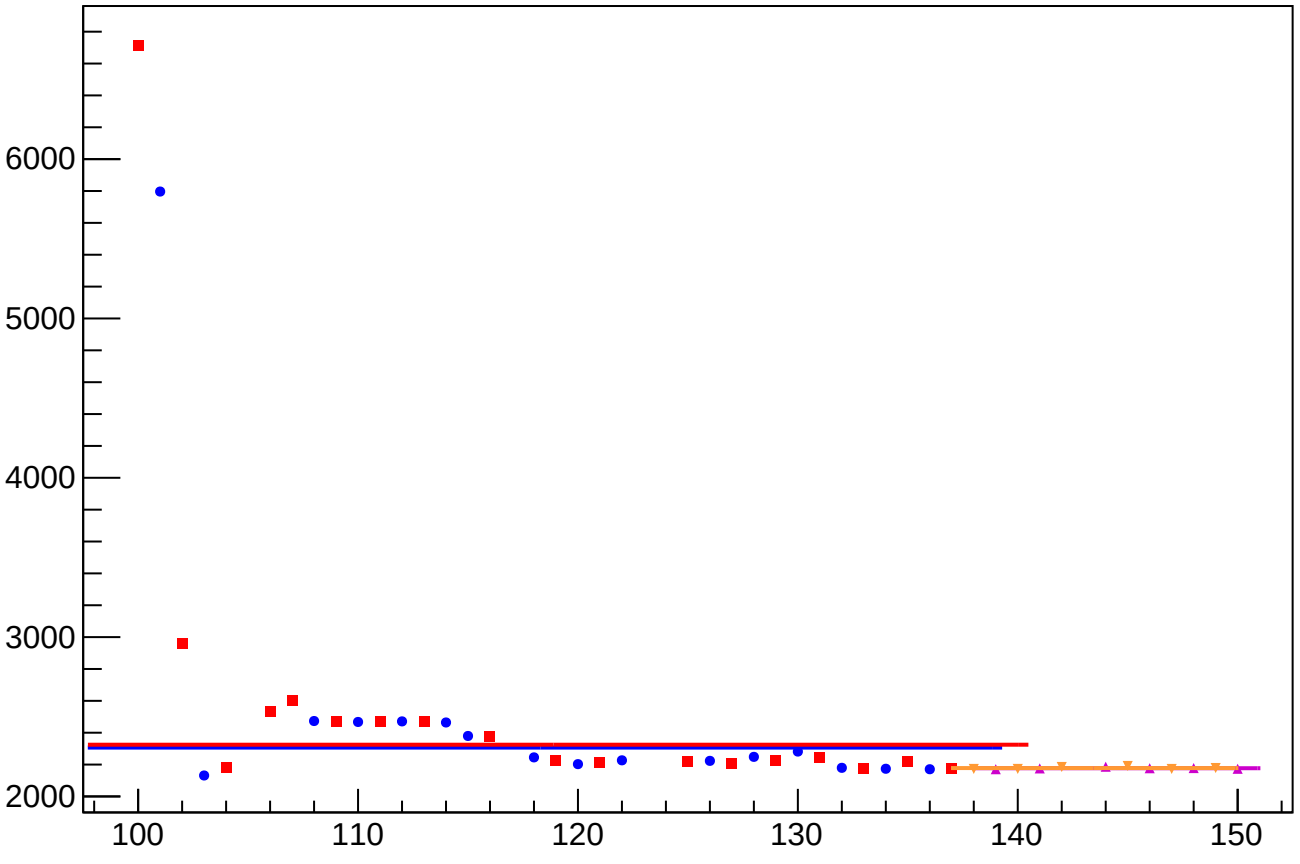
Left: -1055.448+/-695.104 $\chi^2$/NDF: 16.5/11

Right: -751.312+/-615.893 $\chi^2$/NDF: 28.7/33

In: -925.710+/-642.074 $\chi^2$/NDF:27.0/21

Out: -841.841+/-662.226 $\chi^2$/NDF:18.3/23

All: -885.071+/-460.975 $\chi^2$/NDF: 45.3/45




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.6/15

Left Out: 2178.062+/-0.723 $\chi^2$/NDF:97.9/5

Right Out: 2324.685+/-0.615 $\chi^2$/NDF: 153578.5/17

Left In: 2177.096+/-0.670 $\chi^2$/NDF:52.7/5

Left: 2177.543+/-0.492 $\chi^2$/NDF: 151.5/11

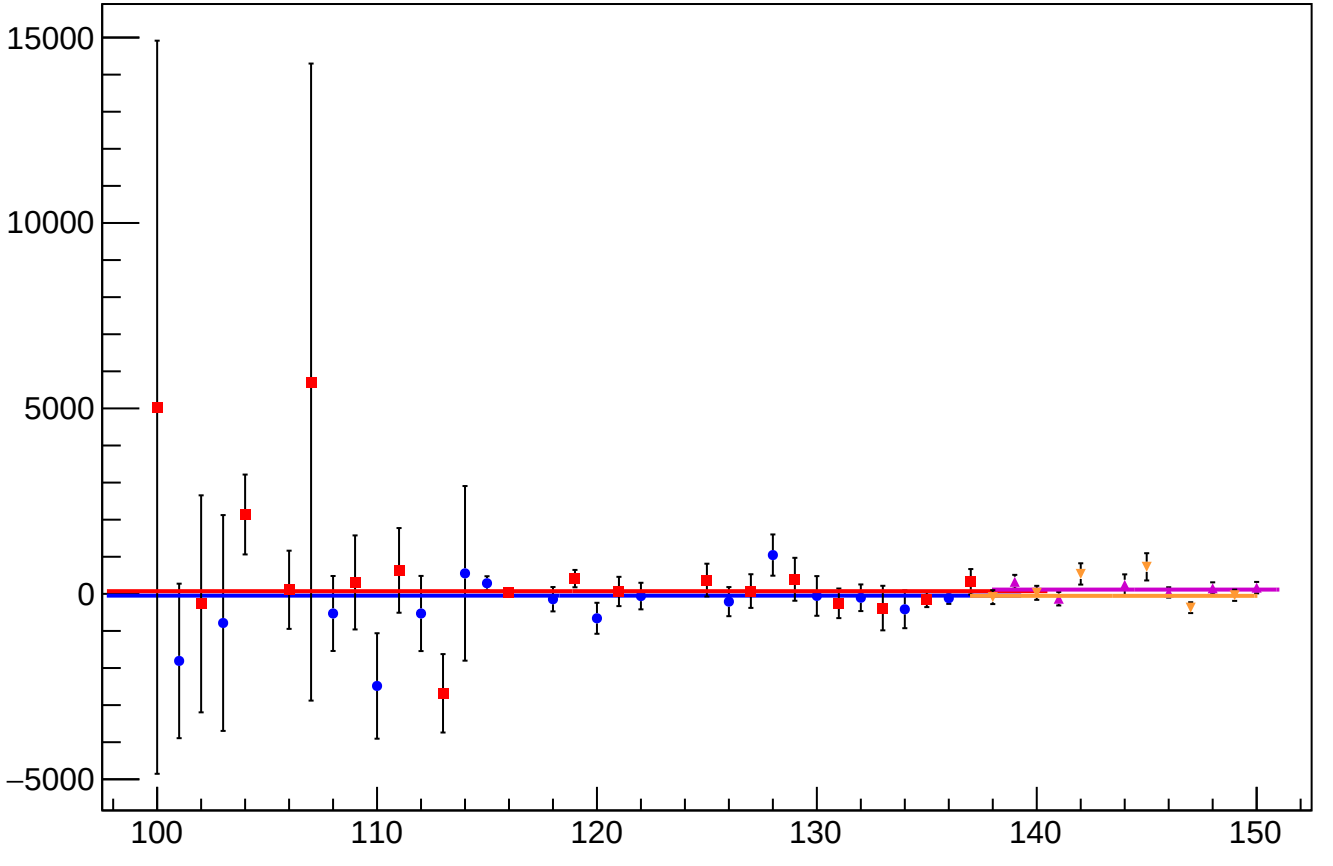
Right: 2315.698+/-0.436 $\chi^2$/NDF: 668158.1/33

In: 2247.228+/-0.454 $\chi^2$/NDF:534418.3/21

Out: 2263.139+/-0.468 $\chi^2$/NDF:177556.0/23

All: 2254.938+/-0.326 $\chi^2$/NDF: 712569.4/45

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -47.960+/-90.920 $\chi^2$/NDF: 14.4/15

Left Out: -53.887+/-77.508 $\chi^2$/NDF:13.7/5

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 114.834+/-70.079 $\chi^2$/NDF:3.7/5

Left: 38.944+/-51.982 $\chi^2$/NDF: 20.1/11

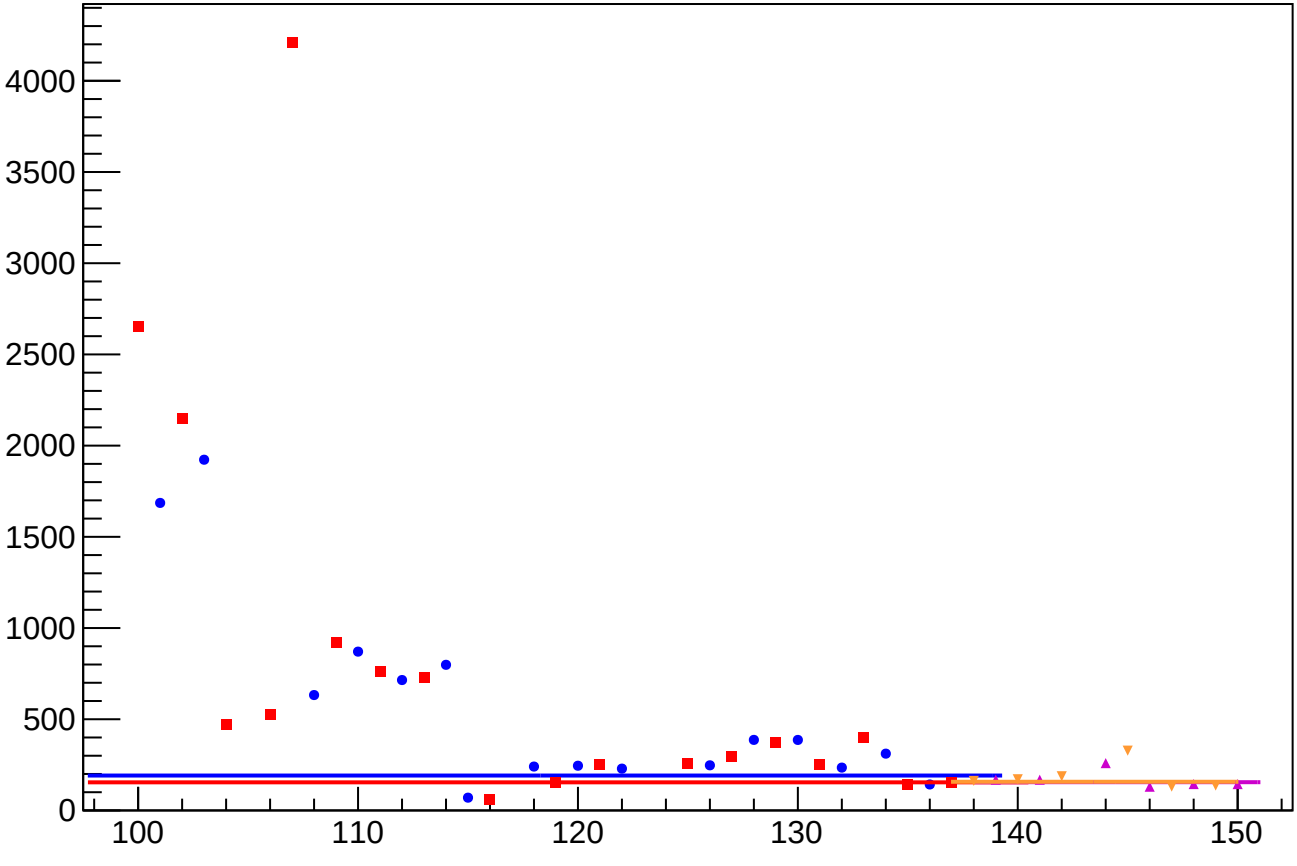
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 54.162+/-55.505 $\chi^2$/NDF:20.1/21

Out: 5.361+/-56.432 $\chi^2$/NDF:32.4/23

All: 30.166+/-39.571 $\chi^2$/NDF: 52.9/45

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 191.405+/-0.064 $\chi^2$/NDF: 5063603.7/15

Left Out: 157.248+/-0.055 $\chi^2$/NDF:568892.2/5

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 154.941+/-0.050 $\chi^2$/NDF:375689.1/5

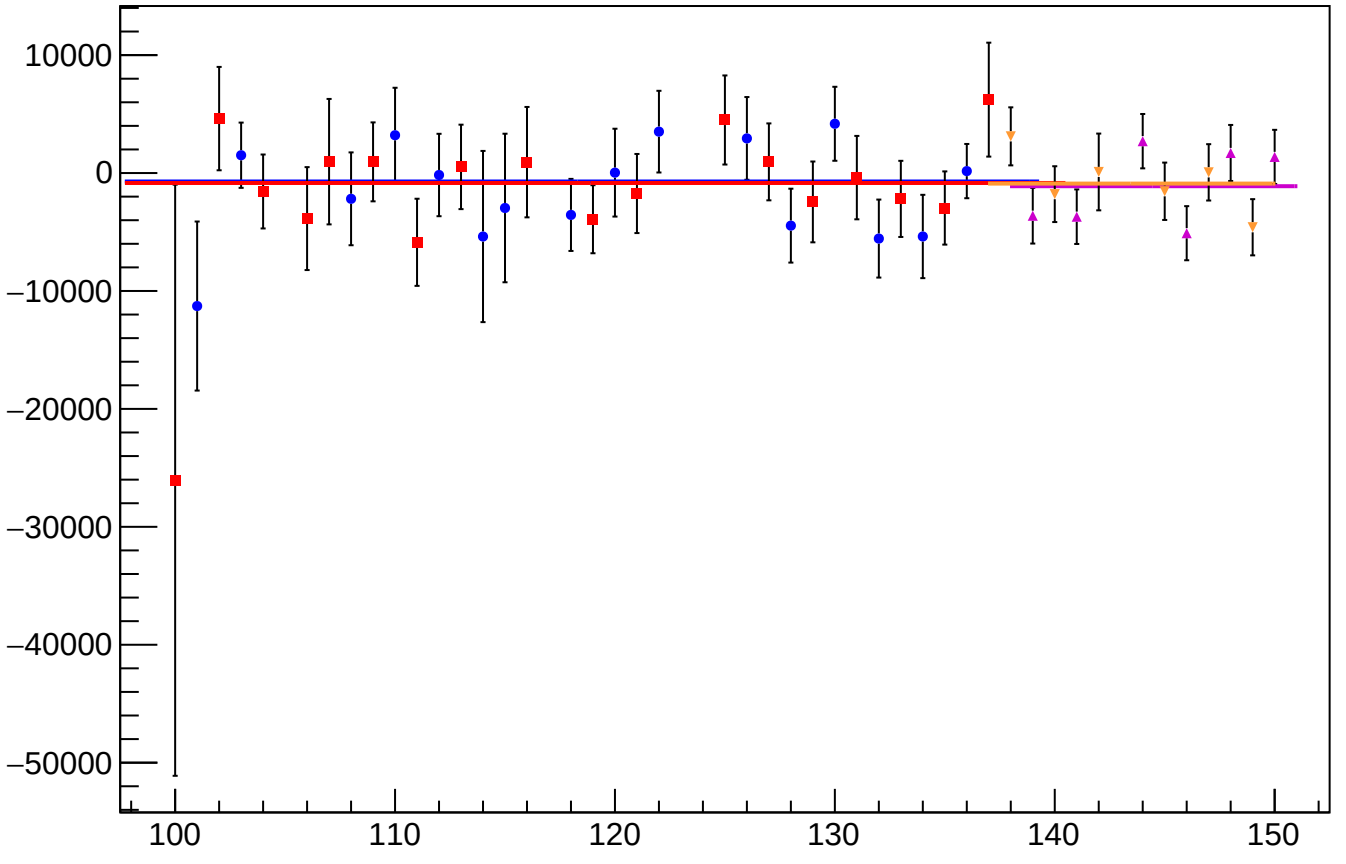
Left: 155.979+/-0.037 $\chi^2$/NDF: 945555.6/11

Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 168.531+/-0.039 $\chi^2$/NDF:5641089.7/21

Out: 155.779+/-0.040 $\chi^2$/NDF:6679086.5/23

All: 162.260+/-0.028 $\chi^2$/NDF: 12372088.6/45




Right In: -717.136+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -894.515+/-1021.433 $\chi^2$/NDF:5.5/5

Right Out: -842.157+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -1115.999+/-948.455 $\chi^2$/NDF:10.7/5

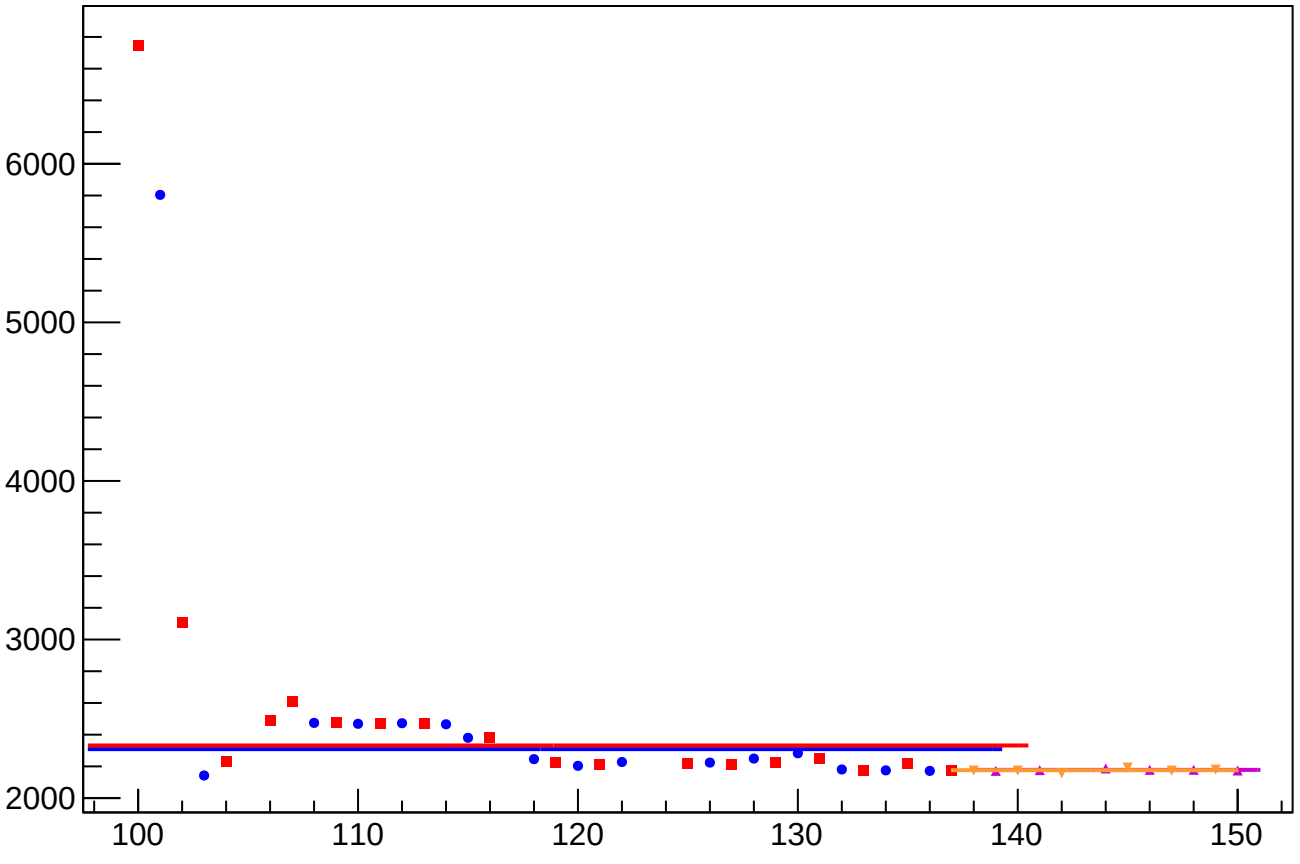
Left: -1013.451+/-695.028 $\chi^2$/NDF: 16.3/11

Right: -779.643+/-617.702 $\chi^2$/NDF: 28.0/33

In: -900.195+/-642.540 $\chi^2$/NDF:26.7/21

Out: -864.276+/-663.895 $\chi^2$/NDF:17.7/23

All: -882.822+/-461.709 $\chi^2$/NDF: 44.4/45




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2176.013+/-0.722 $\chi^2$/NDF:173.6/5

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.7/17

Left In: 2177.933+/-0.671 $\chi^2$/NDF:51.6/5

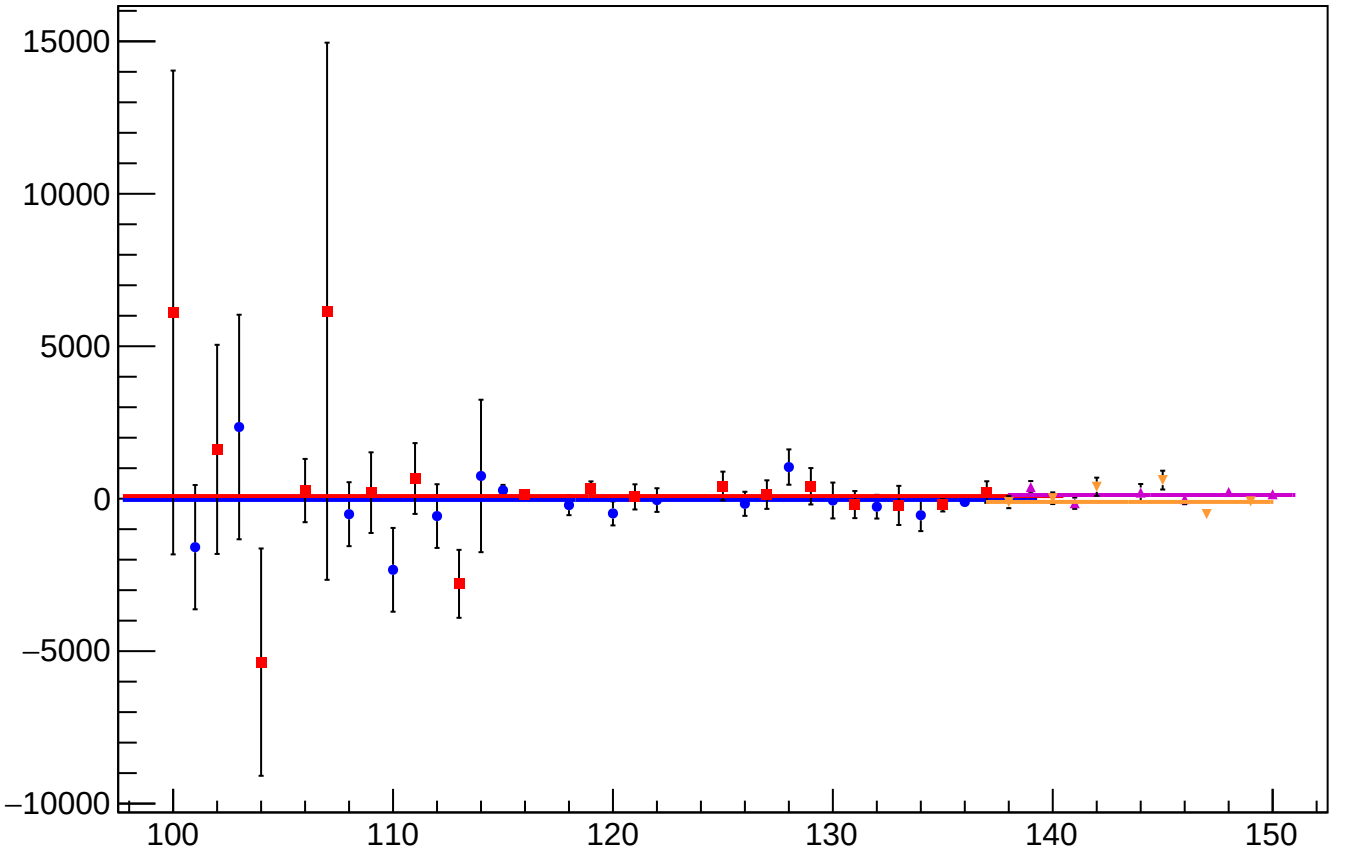
Left: 2177.044+/-0.491 $\chi^2$/NDF: 228.9/11

Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2248.705+/-0.454 $\chi^2$/NDF:534376.0/21

Out: 2266.016+/-0.469 $\chi^2$/NDF:194381.9/23

All: 2257.078+/-0.326 $\chi^2$/NDF: 729460.0/45




Right In: -40.119+/-92.409 $\chi^2$/NDF: 14.1/15

Left Out: -105.569+/-78.817 $\chi^2$/NDF:15.3/5

Right Out: 86.379+/-86.088 $\chi^2$/NDF: 15.0/17

Left In: 121.305+/-72.771 $\chi^2$/NDF:5.0/5

Left: 16.902+/-53.467 $\chi^2$/NDF: 24.8/11

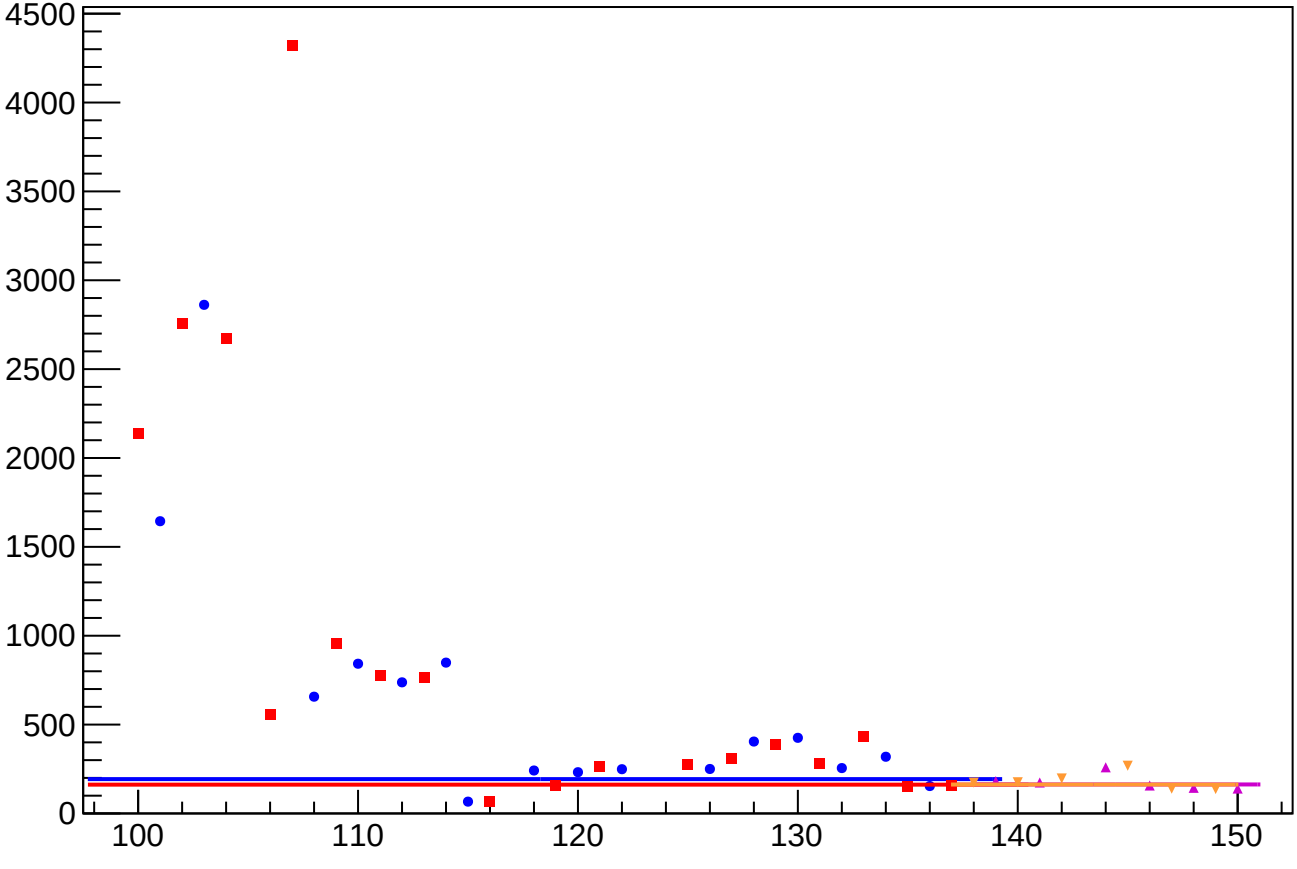
Right: 27.604+/-62.990 $\chi^2$/NDF: 30.0/33

In: 59.517+/-57.172 $\chi^2$/NDF:20.9/21

Out: -18.042+/-58.133 $\chi^2$/NDF:33.0/23

All: 21.383+/-40.762 $\chi^2$/NDF: 54.8/45

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 193.255+/-0.065 $\chi^2$/NDF: 5617847.0/15

Left Out: 162.695+/-0.056 $\chi^2$/NDF:379256.2/5

Right Out: 162.114+/-0.061 $\chi^2$/NDF: 7070489.1/17

Left In: 163.191+/-0.051 $\chi^2$/NDF:341793.1/5

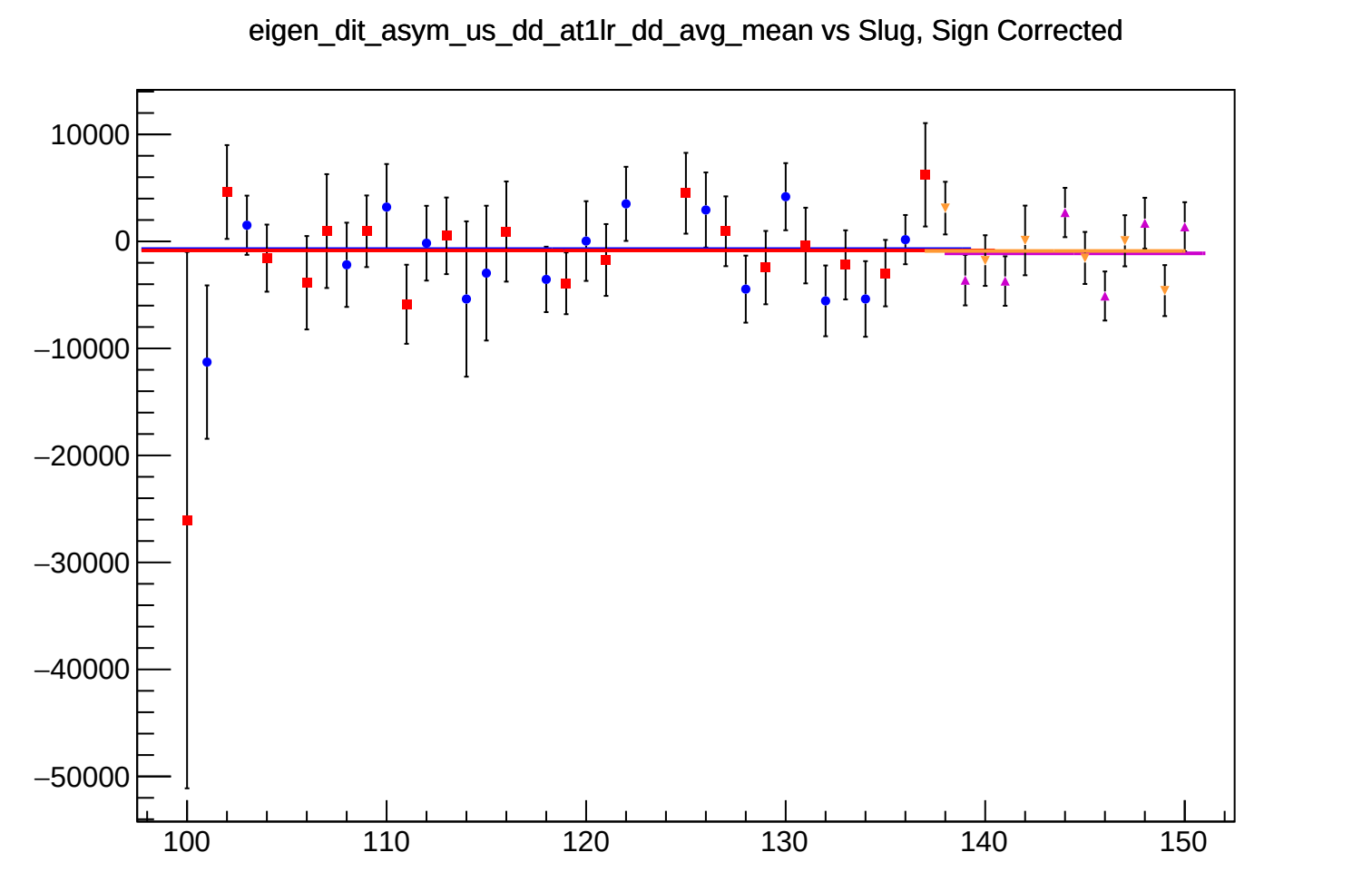
Left: 162.962+/-0.038 $\chi^2$/NDF: 721092.0/11

Right: 176.583+/-0.045 $\chi^2$/NDF: 12809933.8/33

In: 174.698+/-0.040 $\chi^2$/NDF:6090305.8/21

Out: 162.430+/-0.041 $\chi^2$/NDF:7449794.8/23

All: 168.666+/-0.029 $\chi^2$/NDF: 13585381.1/45




Right In: -717.137+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -894.517+/-1021.433 $\chi^2$/NDF:5.5/5

Right Out: -842.159+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -1115.998+/-948.455 $\chi^2$/NDF:10.7/5

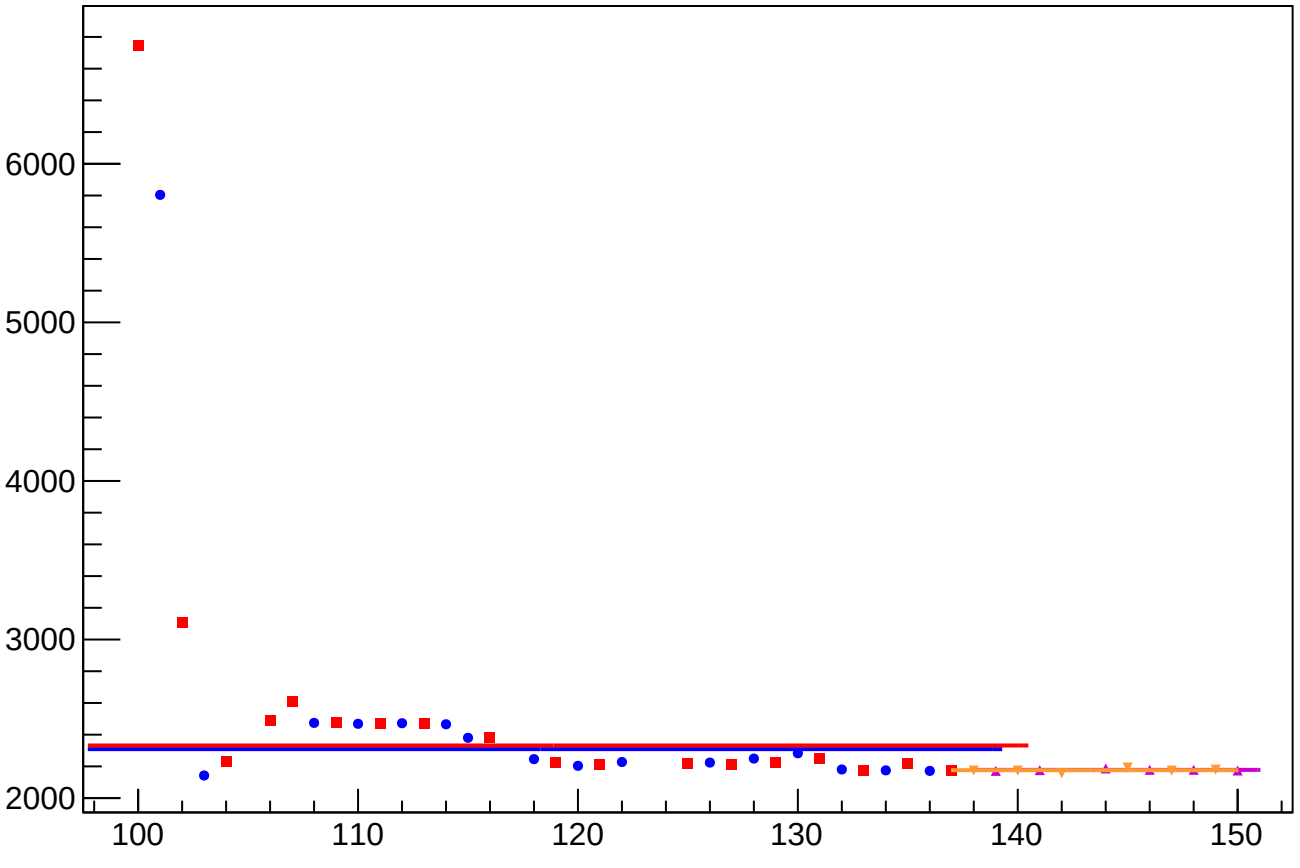
Left: -1013.451+/-695.028 $\chi^2$/NDF: 16.3/11

Right: -779.645+/-617.702 $\chi^2$/NDF: 28.0/33

In: -900.195+/-642.540 $\chi^2$/NDF:26.7/21

Out: -864.278+/-663.895 $\chi^2$/NDF:17.7/23

All: -882.823+/-461.709 $\chi^2$/NDF: 44.4/45




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2176.013+/-0.722 $\chi^2$/NDF:173.6/5

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.6/17

Left In: 2177.933+/-0.671 $\chi^2$/NDF:51.6/5

Left: 2177.044+/-0.491 $\chi^2$/NDF: 228.9/11

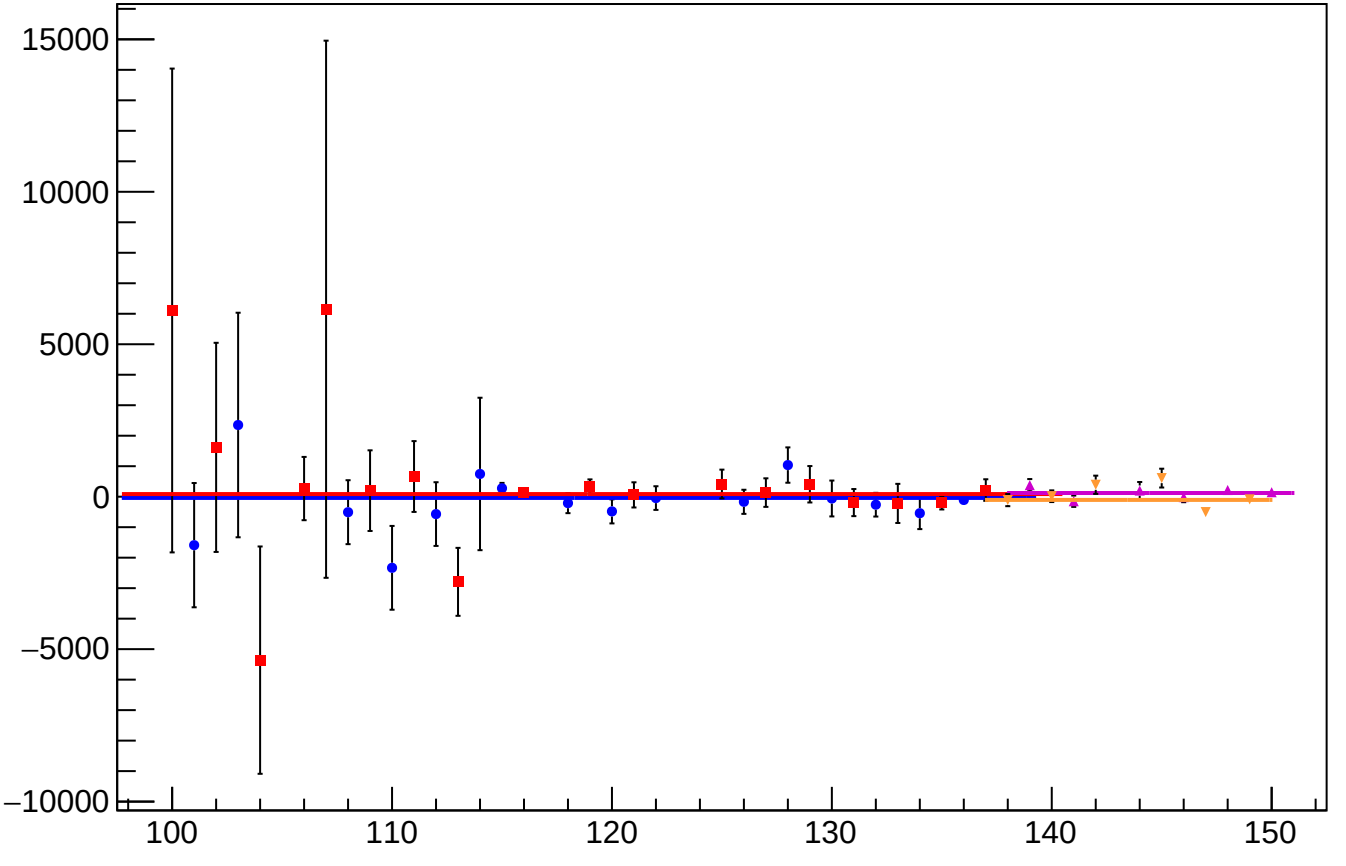
Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2248.705+/-0.454 $\chi^2$/NDF:534376.1/21

Out: 2266.016+/-0.469 $\chi^2$/NDF:194381.8/23

All: 2257.078+/-0.326 $\chi^2$/NDF: 729459.9/45

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -40.116+/-92.408 $\chi^2$/NDF: 14.1/15

Left Out: -105.569+/-78.817 $\chi^2$/NDF:15.3/5

Right Out: 86.380+/-86.087 $\chi^2$/NDF: 15.0/17

Left In: 121.304+/-72.772 $\chi^2$/NDF:5.0/5

Left: 16.901+/-53.467 $\chi^2$/NDF: 24.8/11

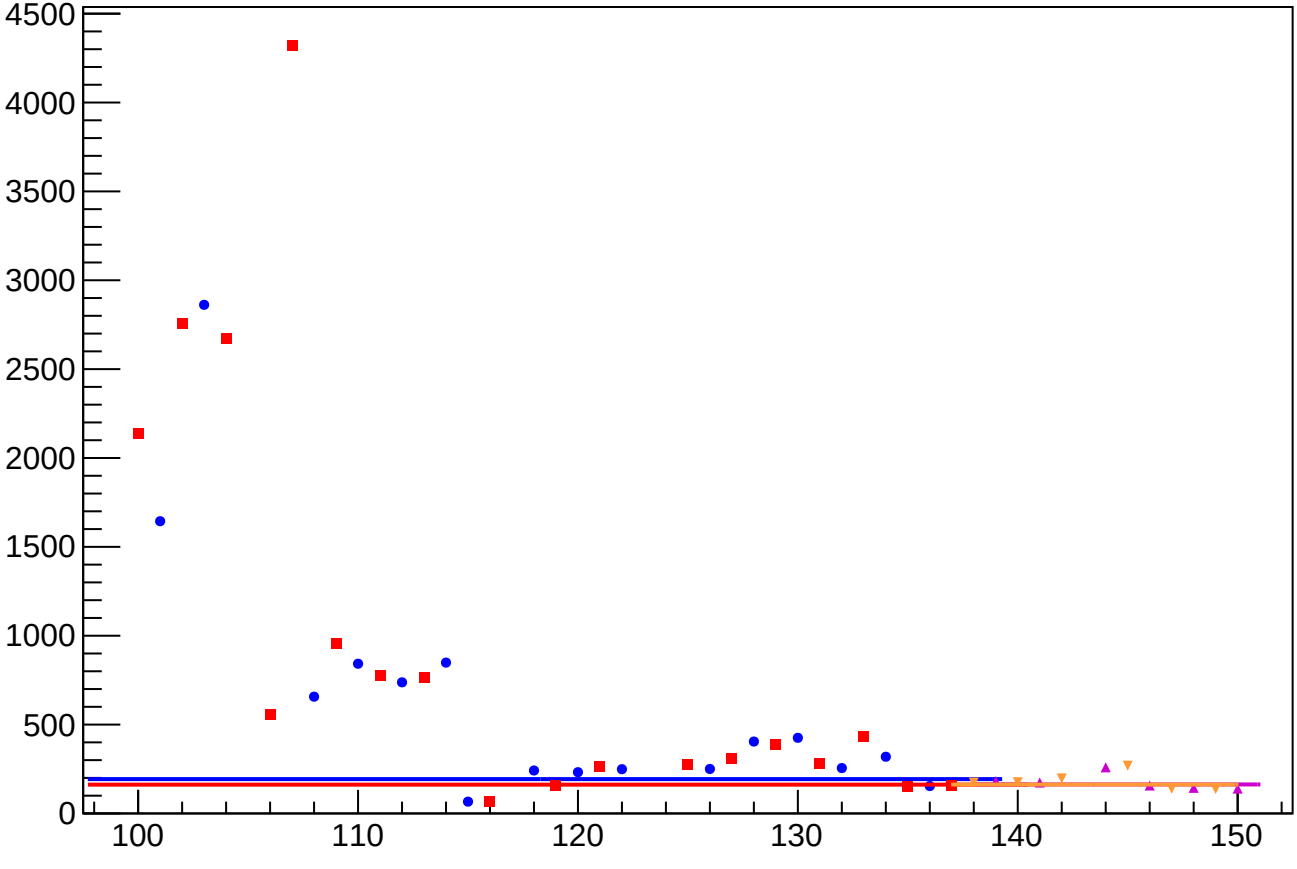
Right: 27.606+/-62.989 $\chi^2$/NDF: 30.0/33

In: 59.516+/-57.172 $\chi^2$/NDF:20.9/21

Out: -18.040+/-58.133 $\chi^2$/NDF:33.0/23

All: 21.384+/-40.762 $\chi^2$/NDF: 54.8/45

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 193.253+/-0.065 $\chi^2$/NDF: 5617884.1/15

Left Out: 162.696+/-0.056 $\chi^2$/NDF:379246.5/5

Right Out: 162.112+/-0.061 $\chi^2$/NDF: 7070547.9/17

Left In: 163.191+/-0.051 $\chi^2$/NDF:341785.9/5

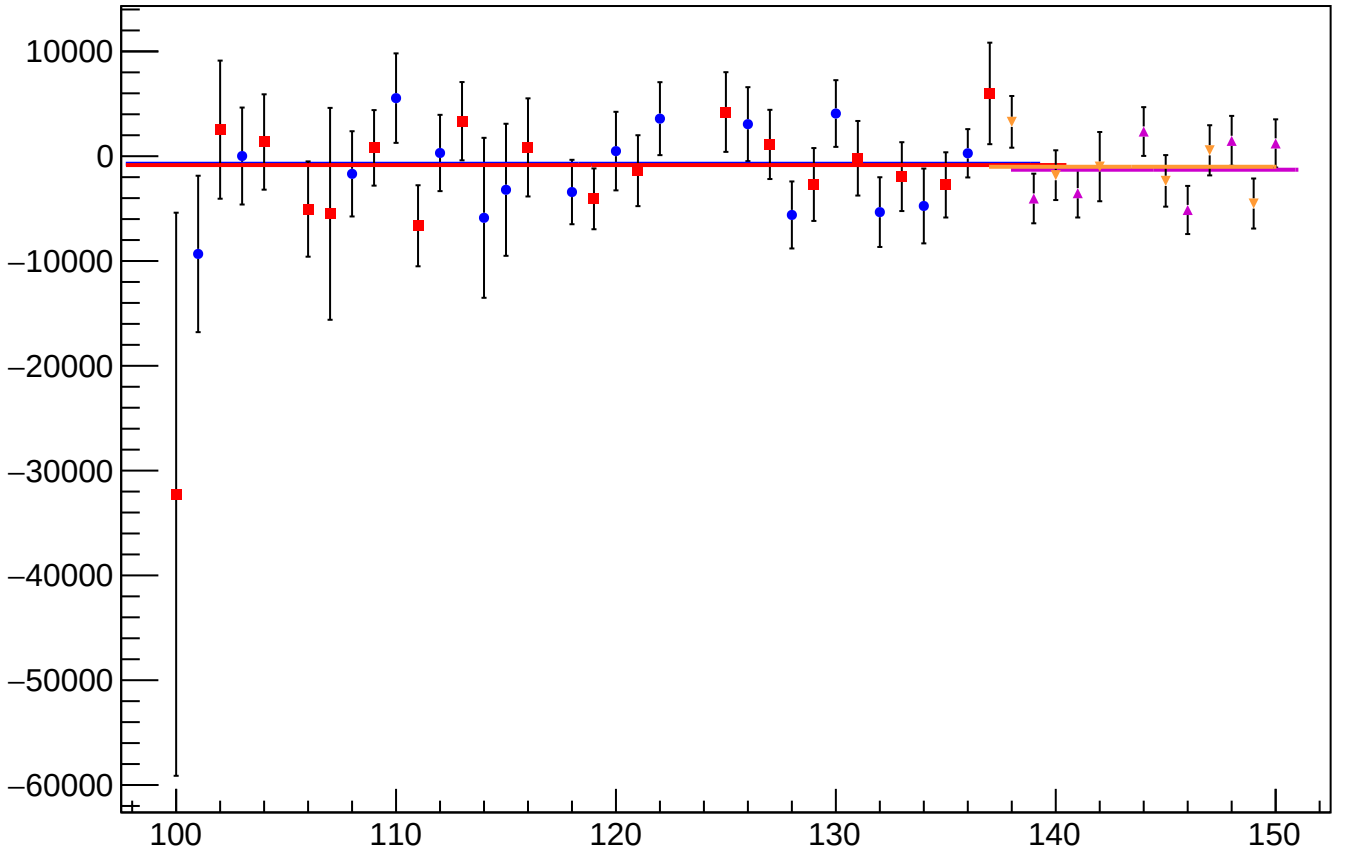
Left: 162.964+/-0.038 $\chi^2$/NDF: 721075.1/11

Right: 176.581+/-0.045 $\chi^2$/NDF: 12810031.9/33

In: 174.698+/-0.040 $\chi^2$/NDF:6090309.1/21

Out: 162.430+/-0.041 $\chi^2$/NDF:7449844.5/23

All: 168.666+/-0.029 $\chi^2$/NDF: 13585436.6/45




Right In: -719.565+/-916.228 $\chi^2$/NDF: 15.8/15

Left Out: -1008.332+/-1026.840 $\chi^2$/NDF:6.0/5

Right Out: -844.810+/-928.703 $\chi^2$/NDF: 12.9/17

Left In: -1289.694+/-951.865 $\chi^2$/NDF:10.1/5

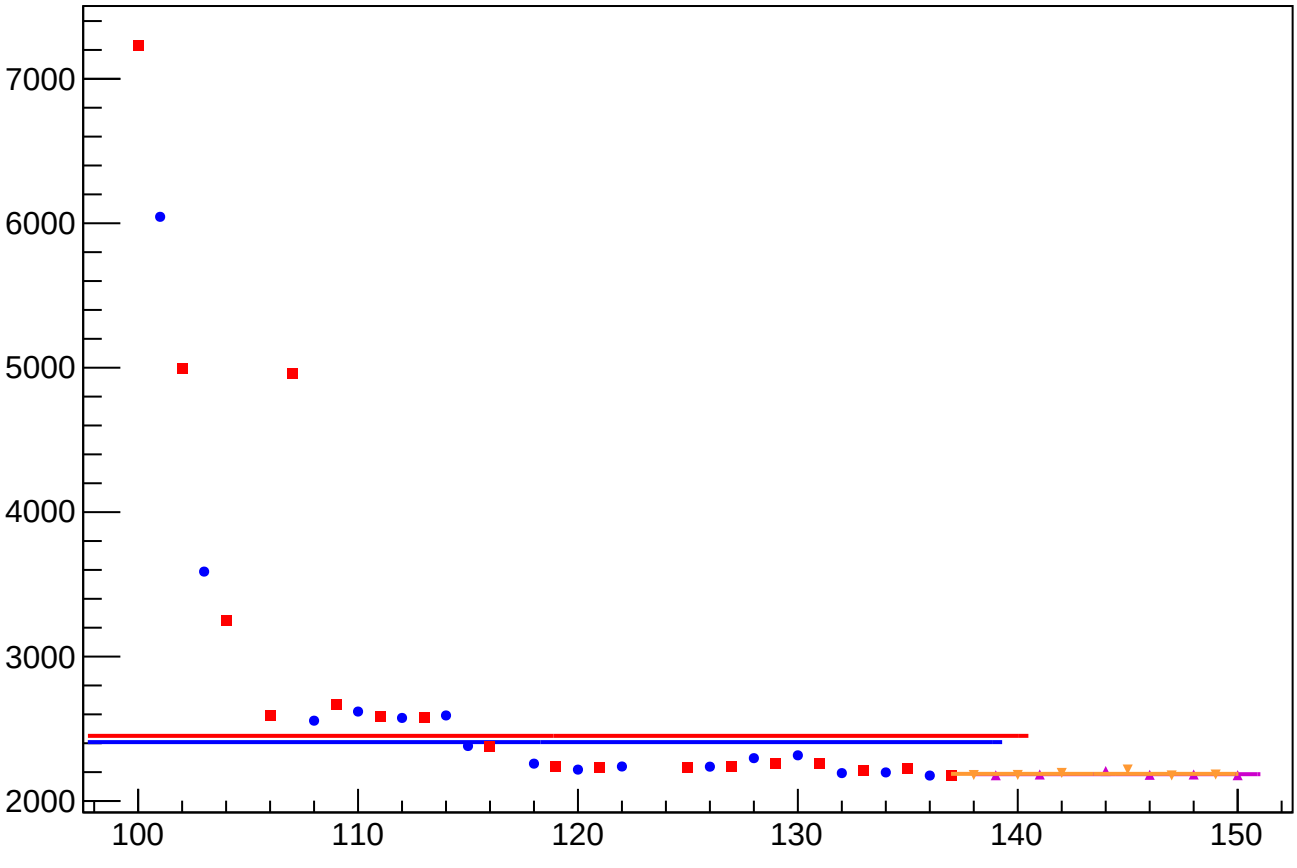
Left: -1159.659+/-698.073 $\chi^2$/NDF: 16.1/11

Right: -781.340+/-652.237 $\chi^2$/NDF: 28.7/33

In: -993.757+/-660.110 $\chi^2$/NDF:26.0/21

Out: -918.385+/-688.781 $\chi^2$/NDF:19.0/23

All: -957.672+/-476.582 $\chi^2$/NDF: 45.0/45




Right In: 2407.795+/-0.648 $\chi^2$/NDF: 676891.3/15

Left Out: 2188.062+/-0.726 $\chi^2$/NDF:394.8/5

Right Out: 2451.189+/-0.657 $\chi^2$/NDF: 633600.1/17

Left In: 2185.738+/-0.673 $\chi^2$/NDF:224.7/5

Left: 2186.812+/-0.494 $\chi^2$/NDF: 625.0/11

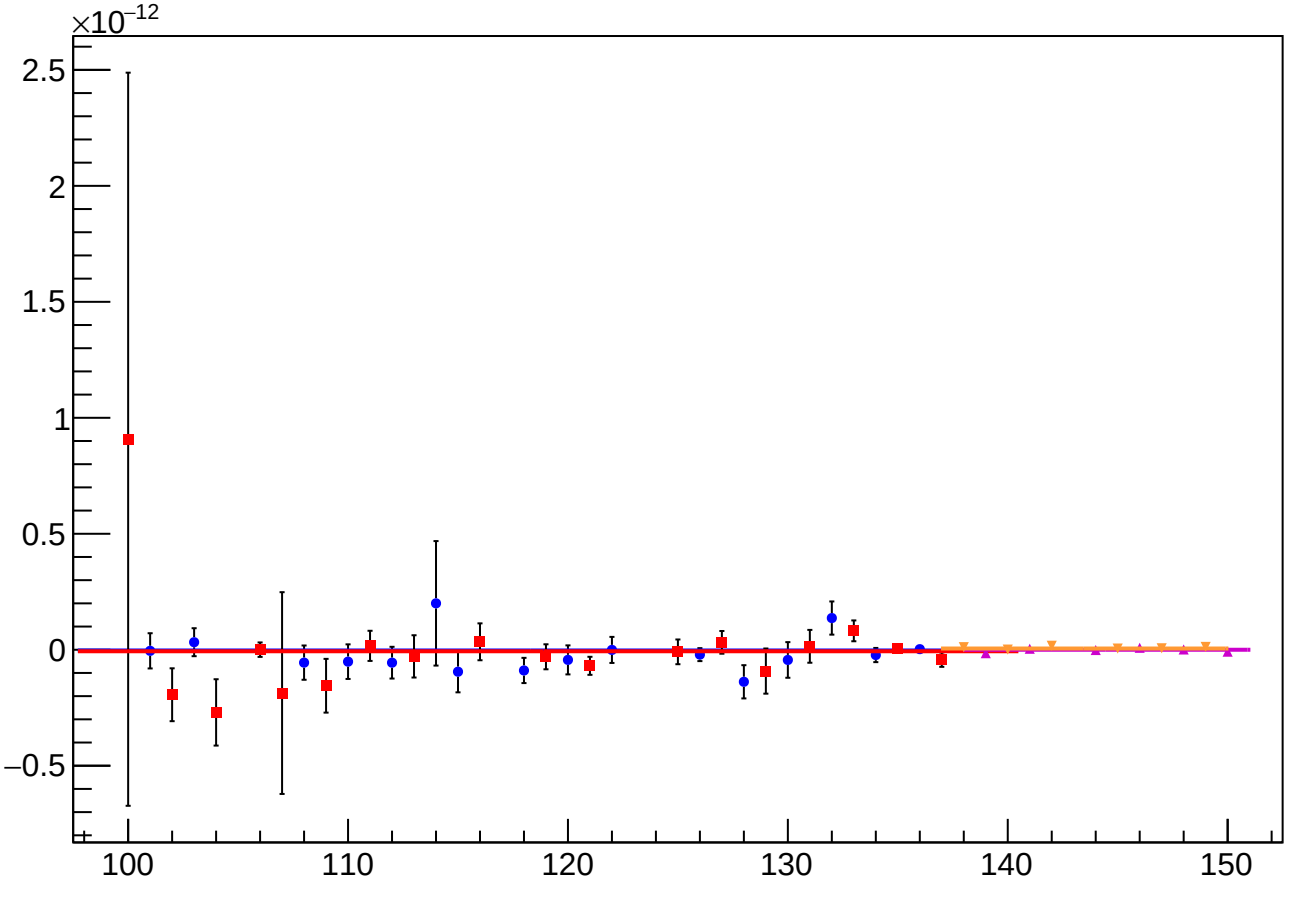
Right: 2429.198+/-0.461 $\chi^2$/NDF: 1312704.2/33

In: 2301.001+/-0.467 $\chi^2$/NDF:733613.8/21

Out: 2332.798+/-0.487 $\chi^2$/NDF:706232.4/23

All: 2316.224+/-0.337 $\chi^2$/NDF: 1442067.9/45

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 12.9/11

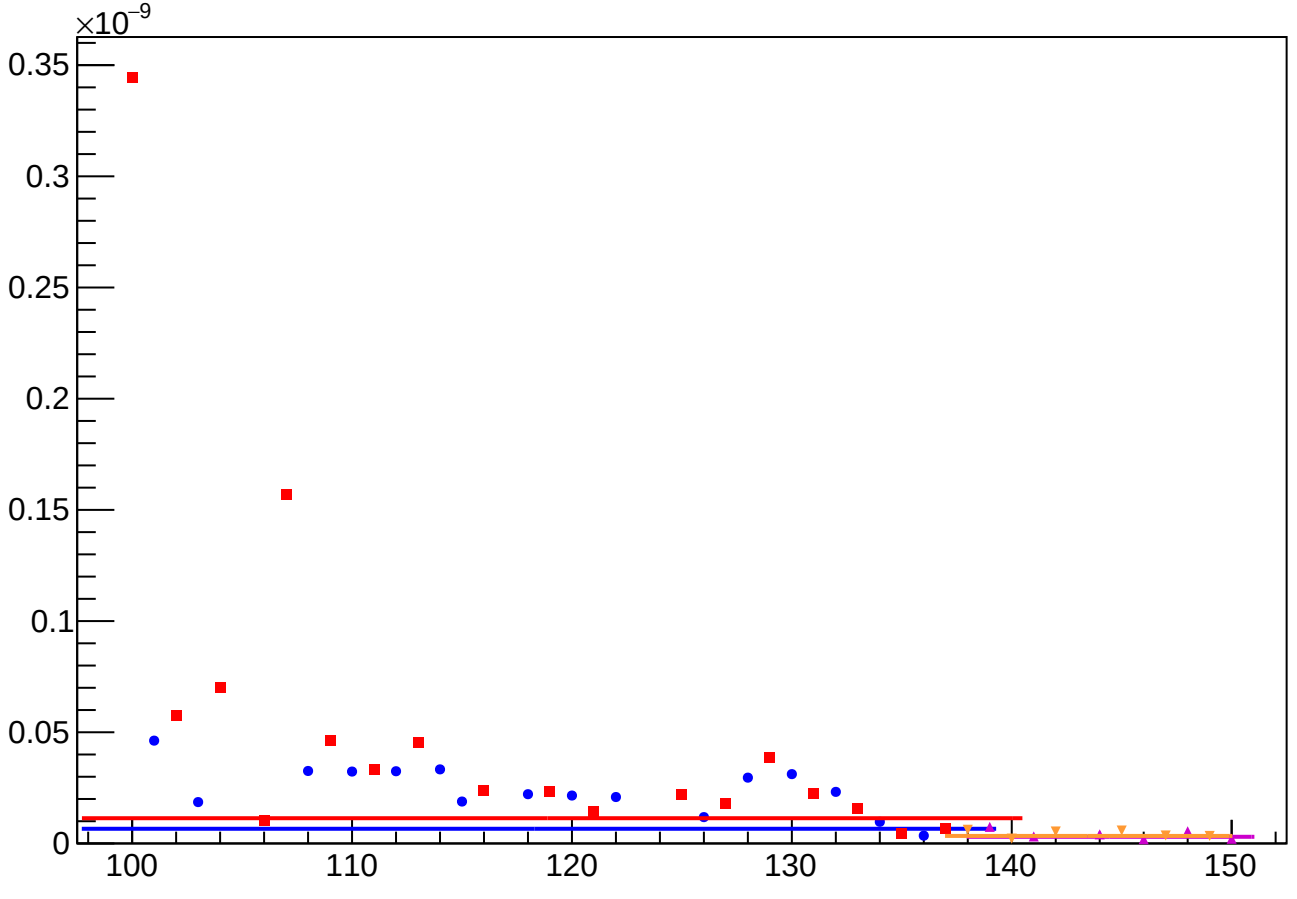
Right: -0.000+/-0.000 $\chi^2$/NDF: 34.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:23.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.8/45

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2856979.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:510465.4/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2697712.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:597130.3/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1127636.2/11

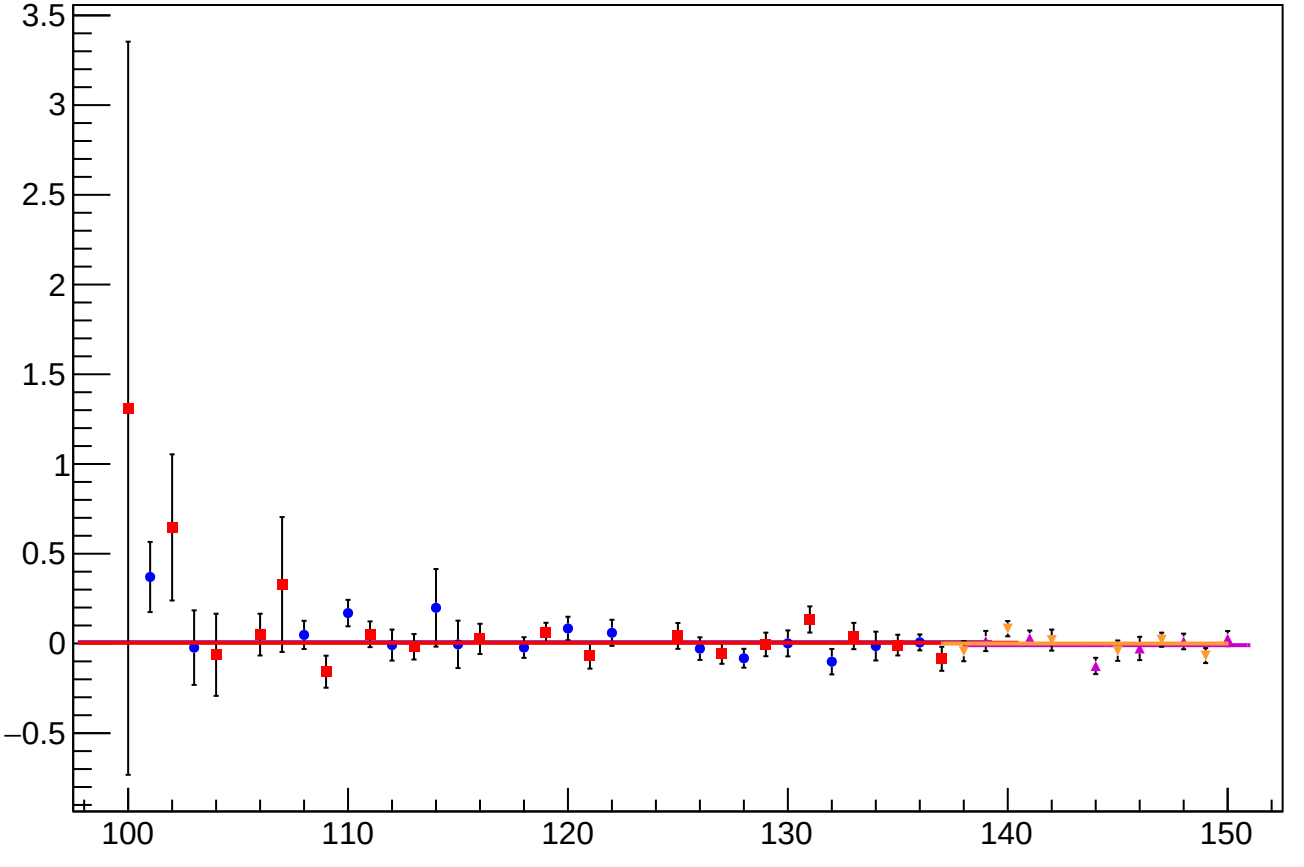
Right: 0.000+/-0.000 $\chi^2$/NDF: 5888629.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:4011670.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4434077.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8478928.6/45

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.019 $\chi^2$/NDF:7.9/5

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.010+/-0.019 $\chi^2$/NDF:8.6/5

Left: -0.005+/-0.014 $\chi^2$/NDF: 16.6/11

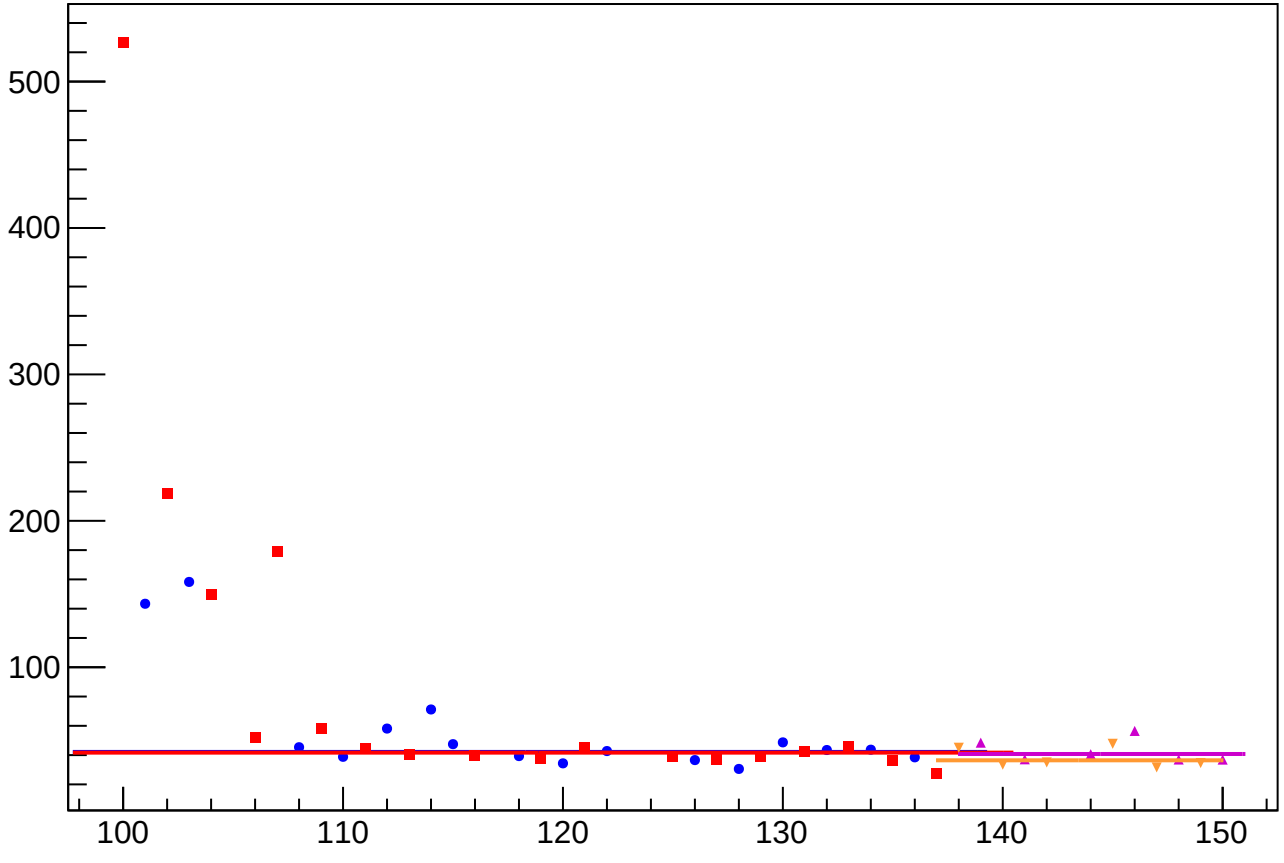
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.001+/-0.013 $\chi^2$/NDF:26.2/21

Out: 0.002+/-0.013 $\chi^2$/NDF:24.2/23

All: 0.000+/-0.009 $\chi^2$/NDF: 50.3/45

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.165+/-0.013 $\chi^2$/NDF: 1454378.8/15

Left Out: 36.440+/-0.014 $\chi^2$/NDF:171532.7/5

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 40.761+/-0.014 $\chi^2$/NDF:201416.6/5

Left: 38.596+/-0.010 $\chi^2$/NDF: 423050.3/11

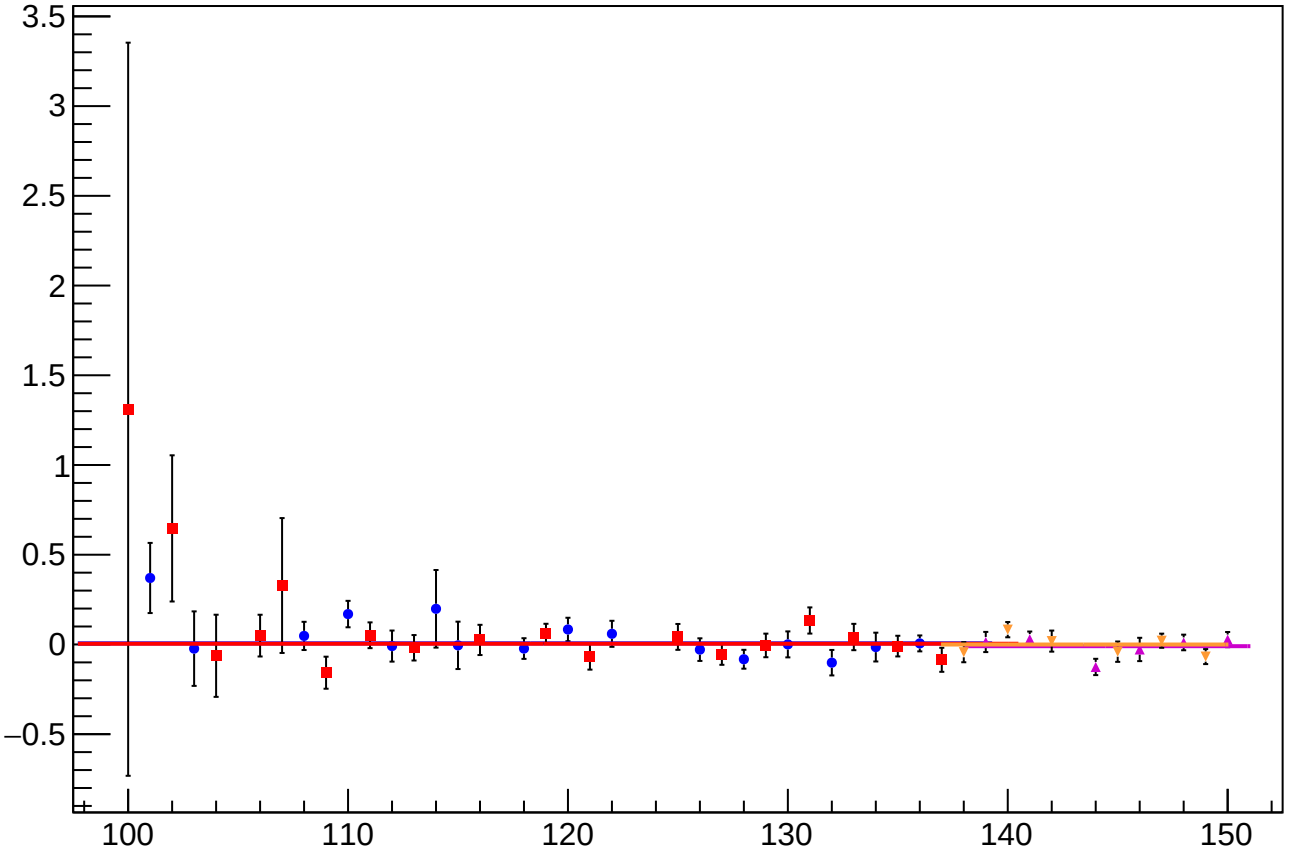
Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 41.503+/-0.009 $\chi^2$/NDF:1661373.4/21

Out: 39.162+/-0.009 $\chi^2$/NDF:1689635.2/23

All: 40.342+/-0.007 $\chi^2$/NDF: 3381862.5/45

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.019 $\chi^2$/NDF:7.9/5

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.010+/-0.019 $\chi^2$/NDF:8.6/5

Left: -0.005+/-0.014 $\chi^2$/NDF: 16.6/11

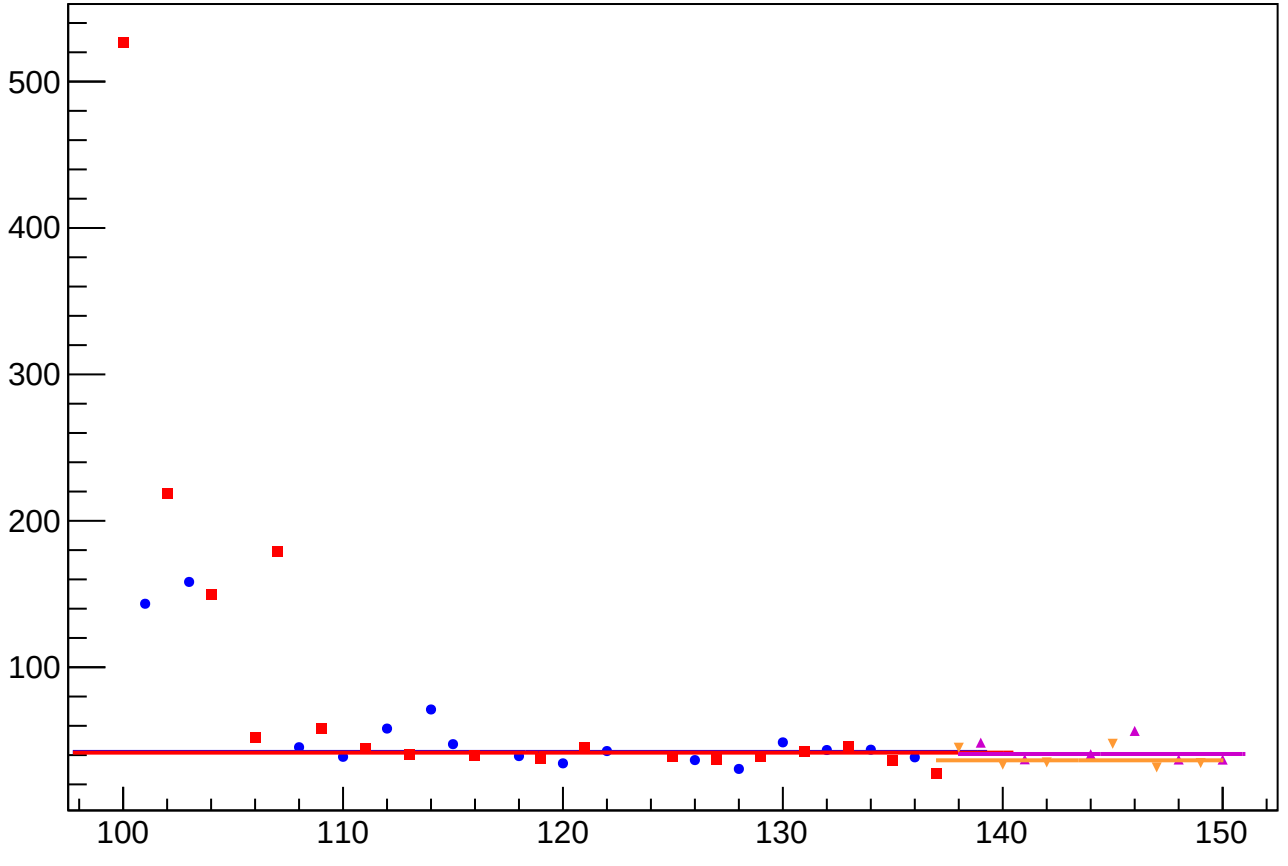
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.001+/-0.013 $\chi^2$/NDF:26.2/21

Out: 0.002+/-0.013 $\chi^2$/NDF:24.2/23

All: 0.000+/-0.009 $\chi^2$/NDF: 50.3/45

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.165+/-0.013 $\chi^2$/NDF: 1454378.8/15

Left Out: 36.440+/-0.014 $\chi^2$/NDF:171532.7/5

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 40.761+/-0.014 $\chi^2$/NDF:201416.6/5

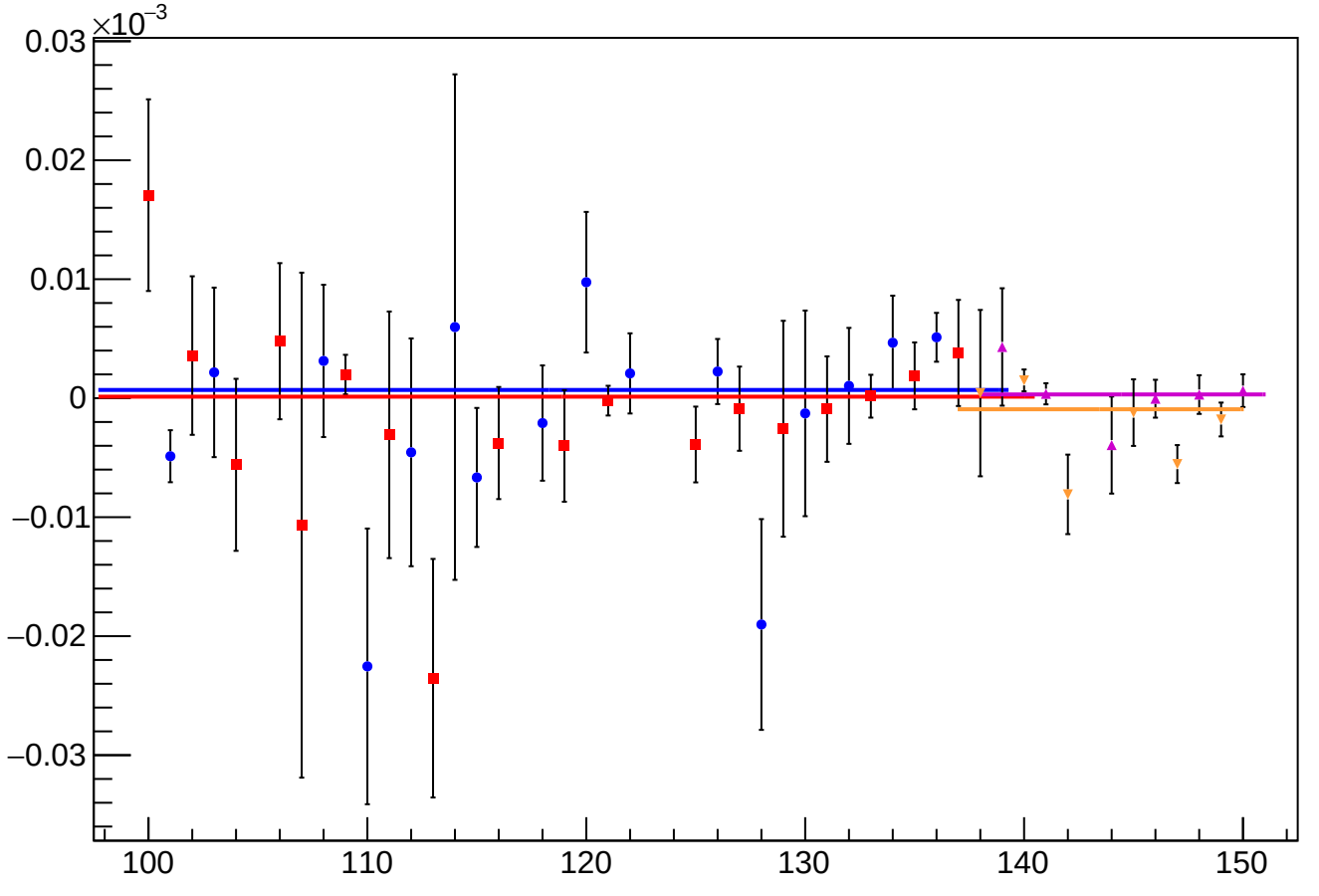
Left: 38.596+/-0.010 $\chi^2$/NDF: 423050.3/11

Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 41.503+/-0.009 $\chi^2$/NDF:1661373.4/21

Out: 39.162+/-0.009 $\chi^2$/NDF:1689635.2/23

All: 40.342+/-0.007 $\chi^2$/NDF: 3381862.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.9/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 24.1/11

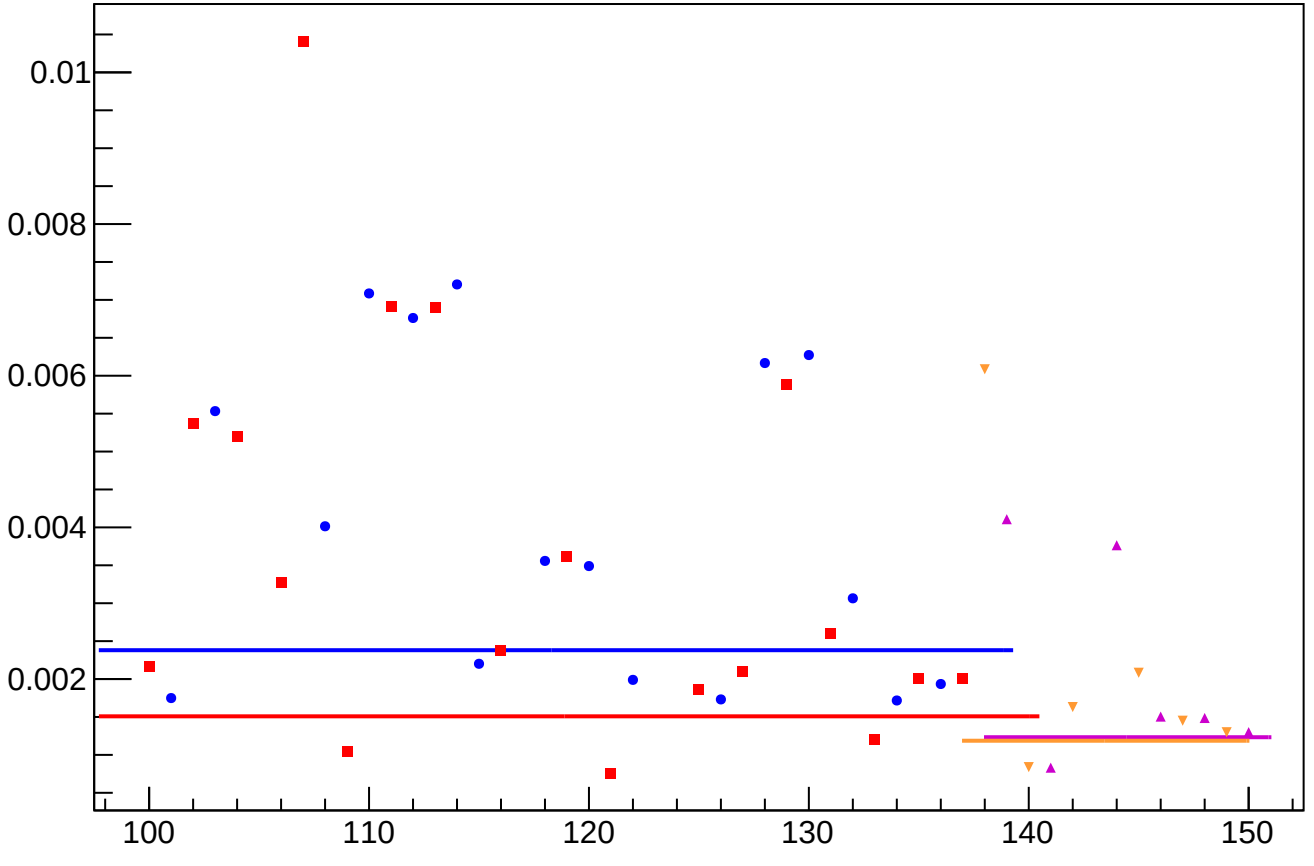
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:28.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:38.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 68.8/45

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2832488.0/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1577457.6/5

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5001667.0/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:1971340.8/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 3554098.2/11

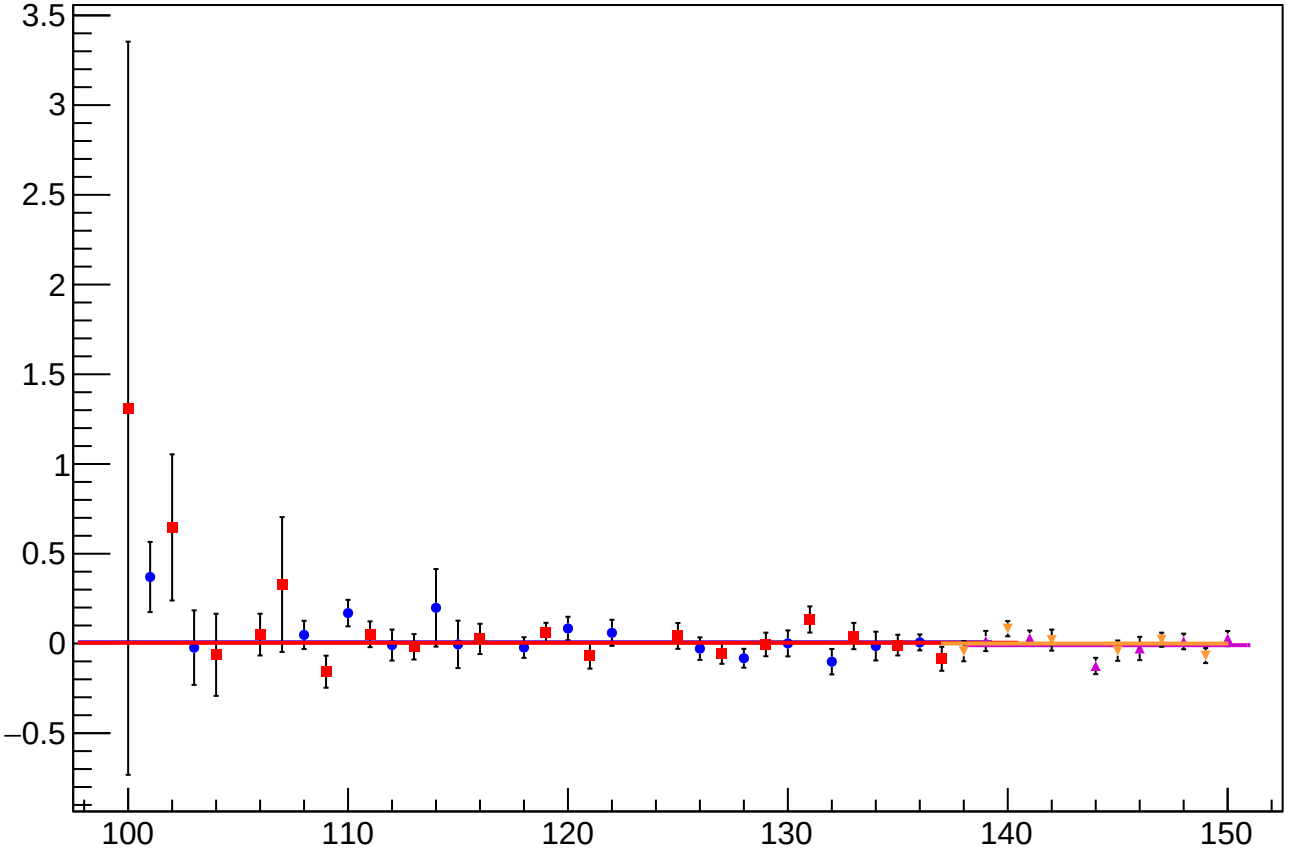
Right: 0.002+/-0.000 $\chi^2$/NDF: 8812145.3/33

In: 0.002+/-0.000 $\chi^2$/NDF:6672747.1/21

Out: 0.001+/-0.000 $\chi^2$/NDF:6796682.4/23

All: 0.001+/-0.000 $\chi^2$/NDF: 13633412.9/45

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.019 $\chi^2$/NDF:7.9/5

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.010+/-0.019 $\chi^2$/NDF:8.6/5

Left: -0.005+/-0.014 $\chi^2$/NDF: 16.6/11

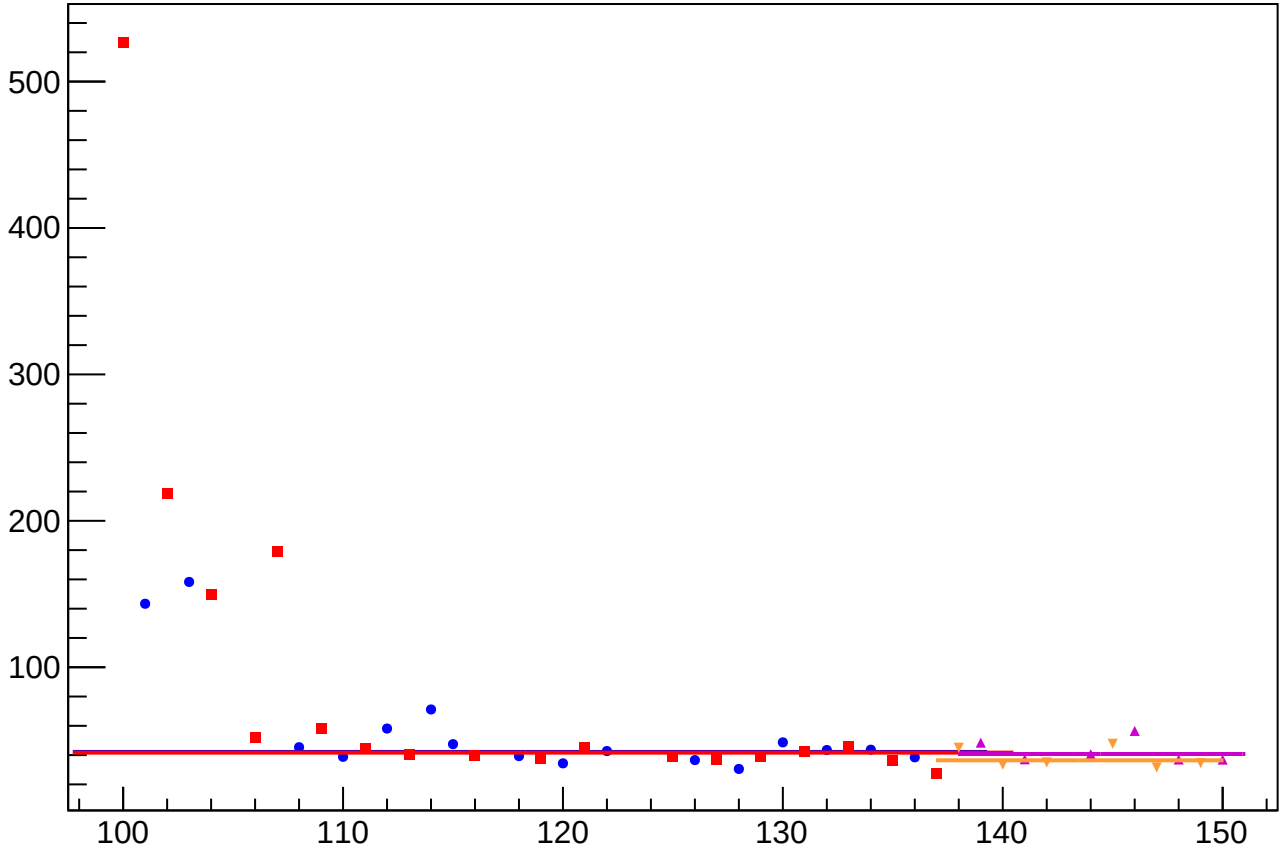
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.001+/-0.013 $\chi^2$/NDF:26.2/21

Out: 0.002+/-0.013 $\chi^2$/NDF:24.2/23

All: 0.000+/-0.009 $\chi^2$/NDF: 50.3/45

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.163+/-0.013 $\chi^2$/NDF: 1454592.8/15

Left Out: 36.441+/-0.014 $\chi^2$/NDF:171515.3/5

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 40.761+/-0.014 $\chi^2$/NDF:201434.2/5

Left: 38.596+/-0.010 $\chi^2$/NDF: 423047.8/11

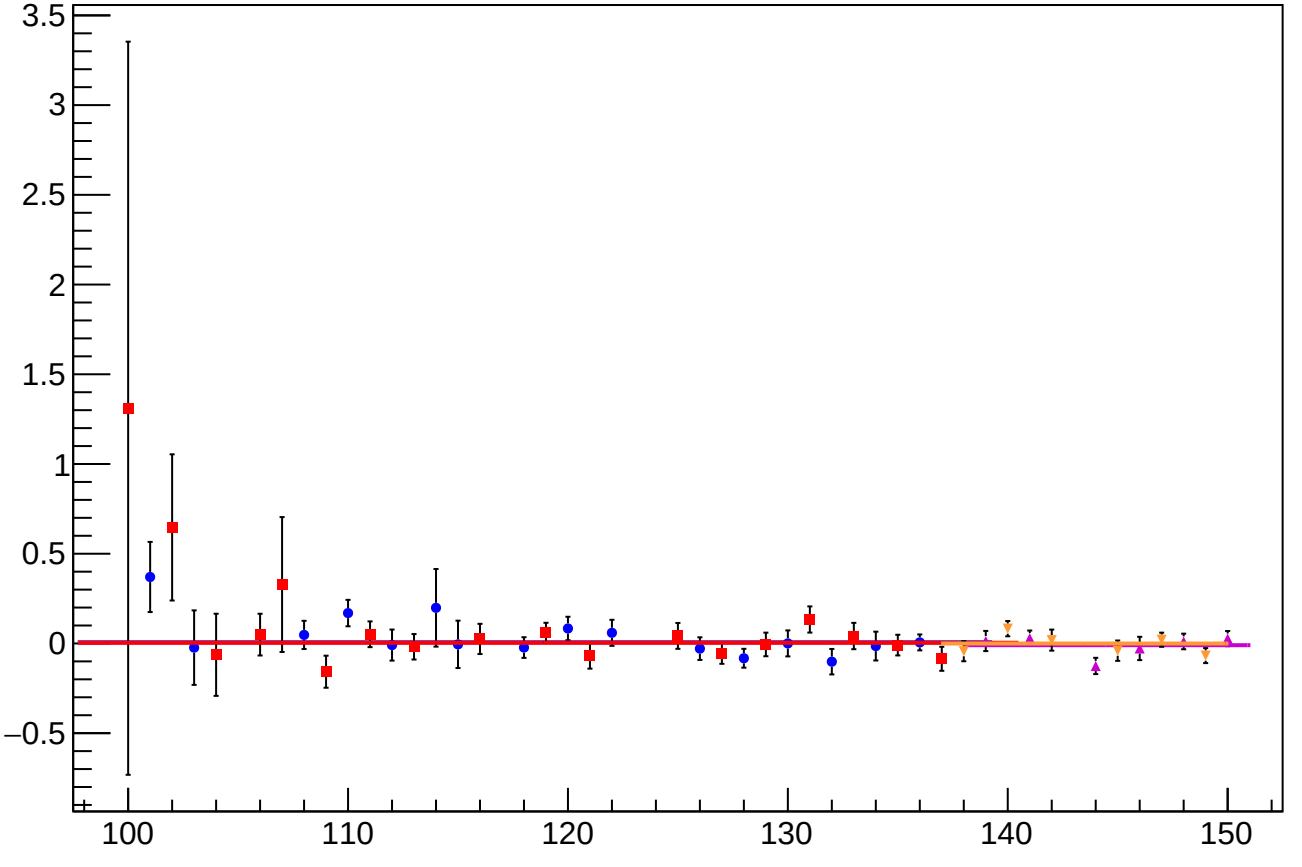
Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 41.502+/-0.009 $\chi^2$/NDF:1661585.7/21

Out: 39.163+/-0.009 $\chi^2$/NDF:1689607.7/23

All: 40.342+/-0.007 $\chi^2$/NDF: 3382007.0/45

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.019 $\chi^2$/NDF:7.9/5

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.010+/-0.019 $\chi^2$/NDF:8.6/5

Left: -0.005+/-0.014 $\chi^2$/NDF: 16.6/11

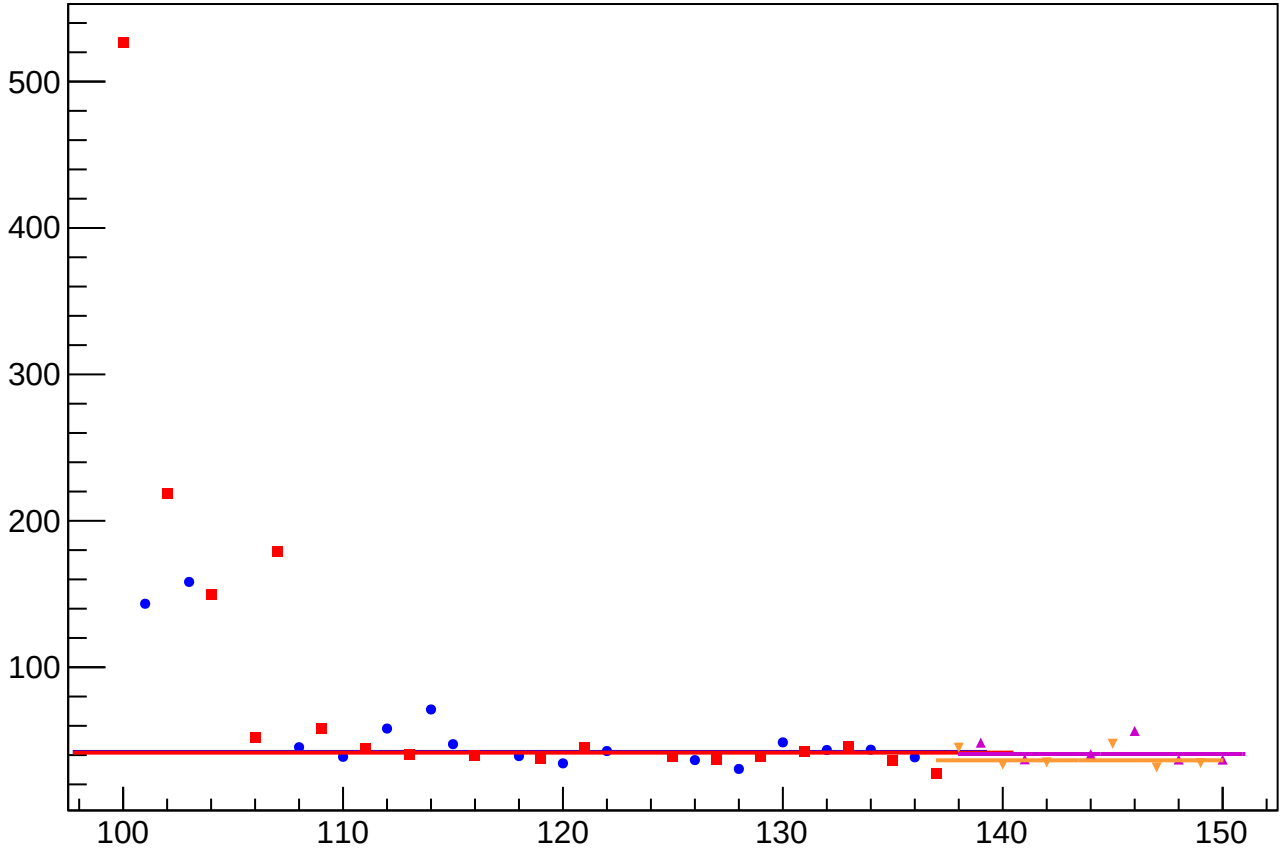
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.001+/-0.013 $\chi^2$/NDF:26.2/21

Out: 0.002+/-0.013 $\chi^2$/NDF:24.2/23

All: 0.000+/-0.009 $\chi^2$/NDF: 50.3/45

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.163+/-0.013 $\chi^2$/NDF: 1454592.8/15

Left Out: 36.441+/-0.014 $\chi^2$/NDF:171515.3/5

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 40.761+/-0.014 $\chi^2$/NDF:201434.2/5

Left: 38.596+/-0.010 $\chi^2$/NDF: 423047.8/11

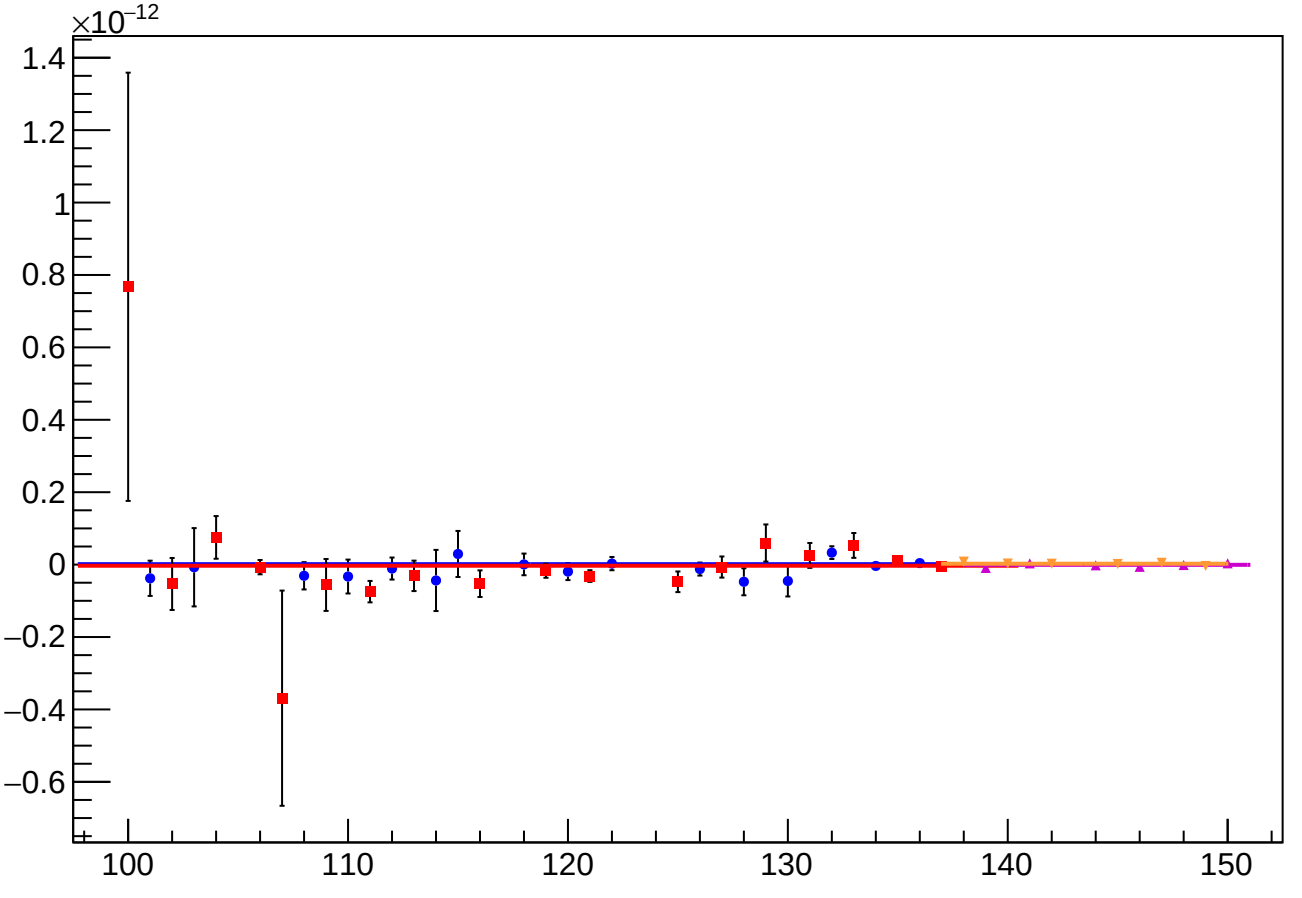
Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 41.502+/-0.009 $\chi^2$/NDF:1661585.7/21

Out: 39.163+/-0.009 $\chi^2$/NDF:1689607.7/23

All: 40.342+/-0.007 $\chi^2$/NDF: 3382007.0/45

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.0/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.1/5

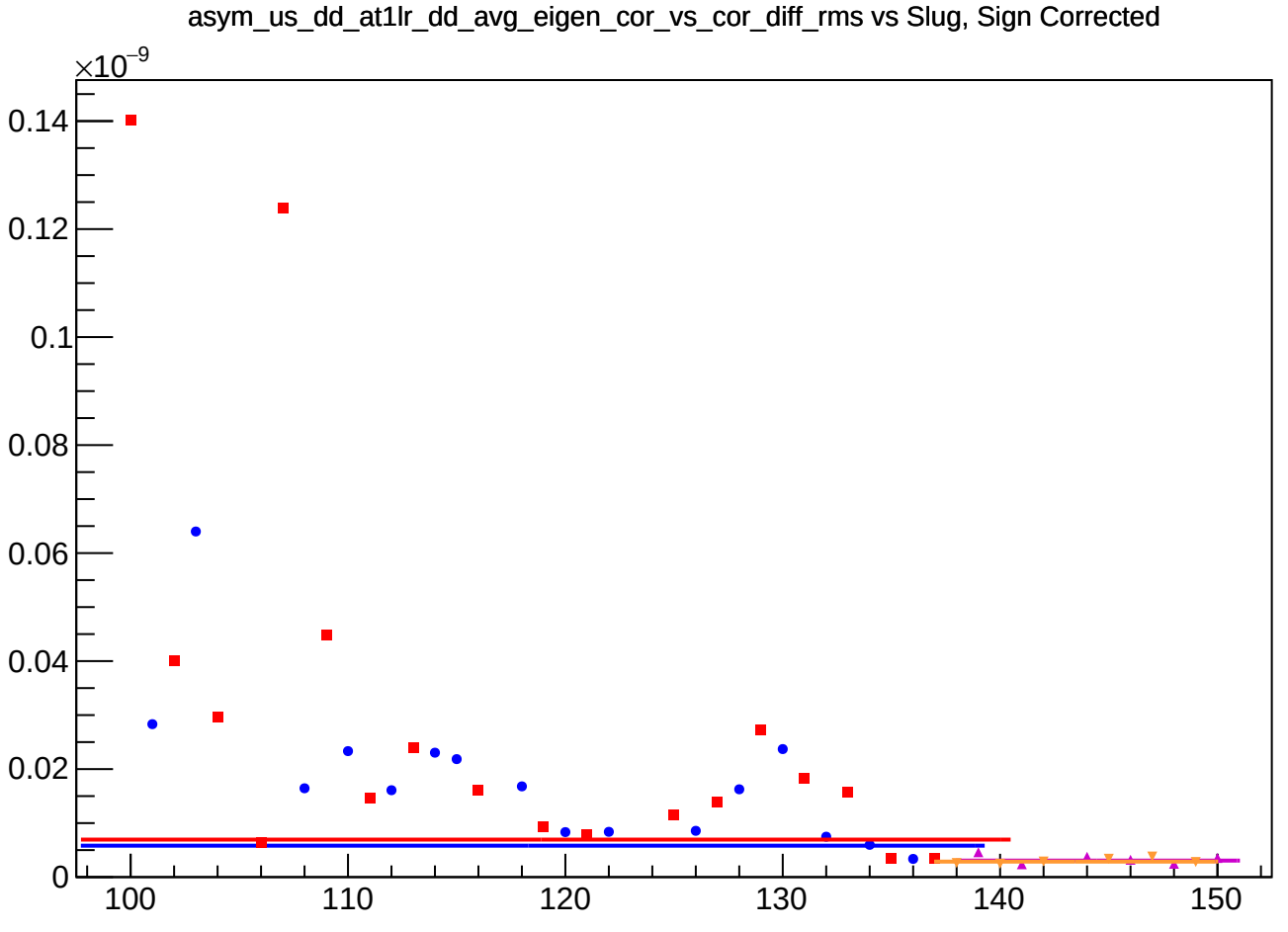
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.4/11

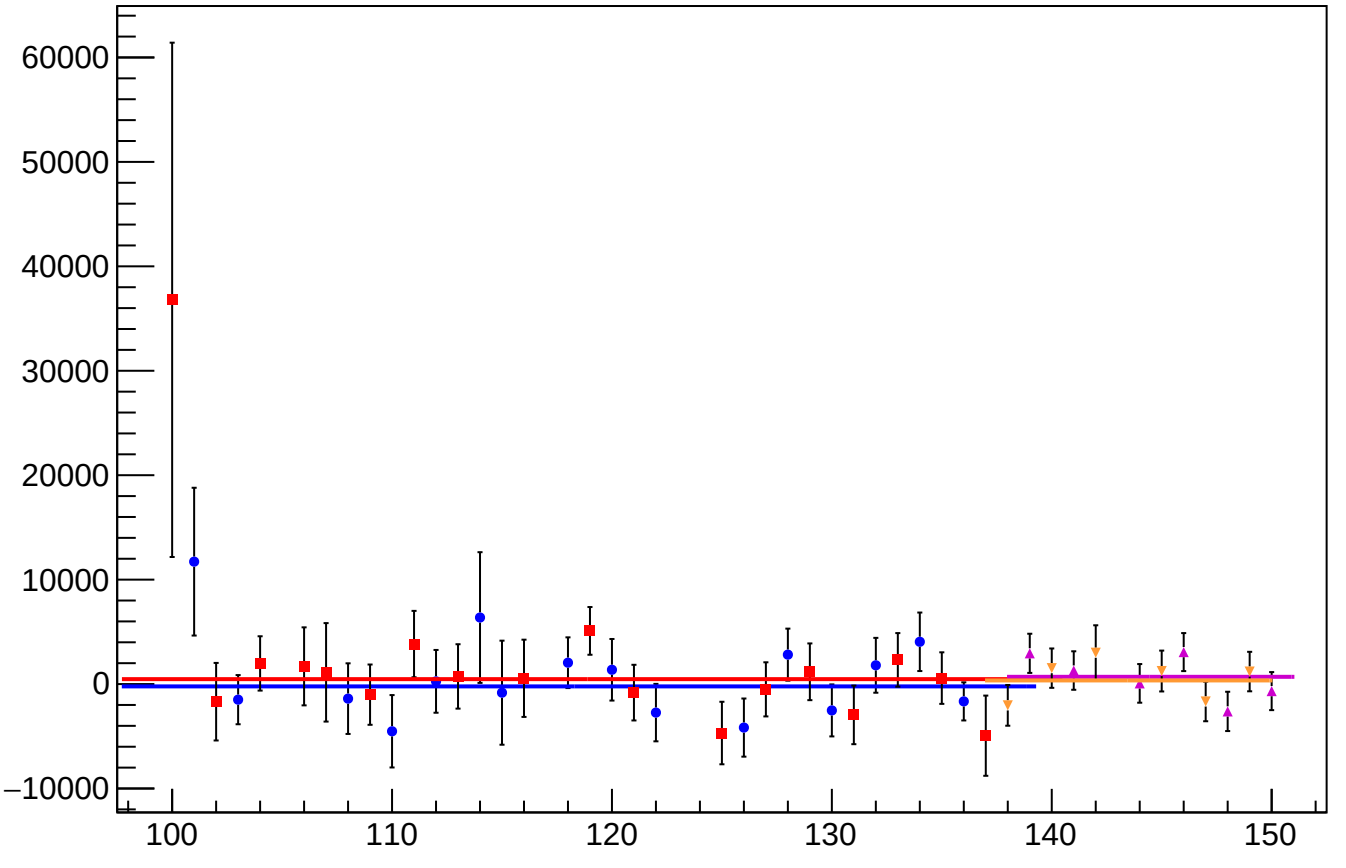
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:15.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:34.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 50.5/45


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3296021.2/15
Left Out: 0.000+/-0.000 χ²/NDF:115686.3/5
Right Out: 0.000+/-0.000 χ²/NDF: 3789910.8/17
Left In: 0.000+/-0.000 χ²/NDF:279495.3/5
Left: 0.000+/-0.000 χ²/NDF: 405466.8/11
Right: 0.000+/-0.000 χ²/NDF: 7152698.2/33
In: 0.000+/-0.000 χ²/NDF:4387858.9/21
Out: 0.000+/-0.000 χ²/NDF:5191673.8/23
All: 0.000+/-0.000 χ²/NDF: 9589088.8/45




Right In: -222.980+/-709.150 $\chi^2$/NDF: 15.8/15

Left Out: 348.566+/-814.000 $\chi^2$/NDF:4.5/5

Right Out: 472.410+/-711.475 $\chi^2$/NDF: 15.9/17

Left In: 694.601+/-754.476 $\chi^2$/NDF:7.0/5

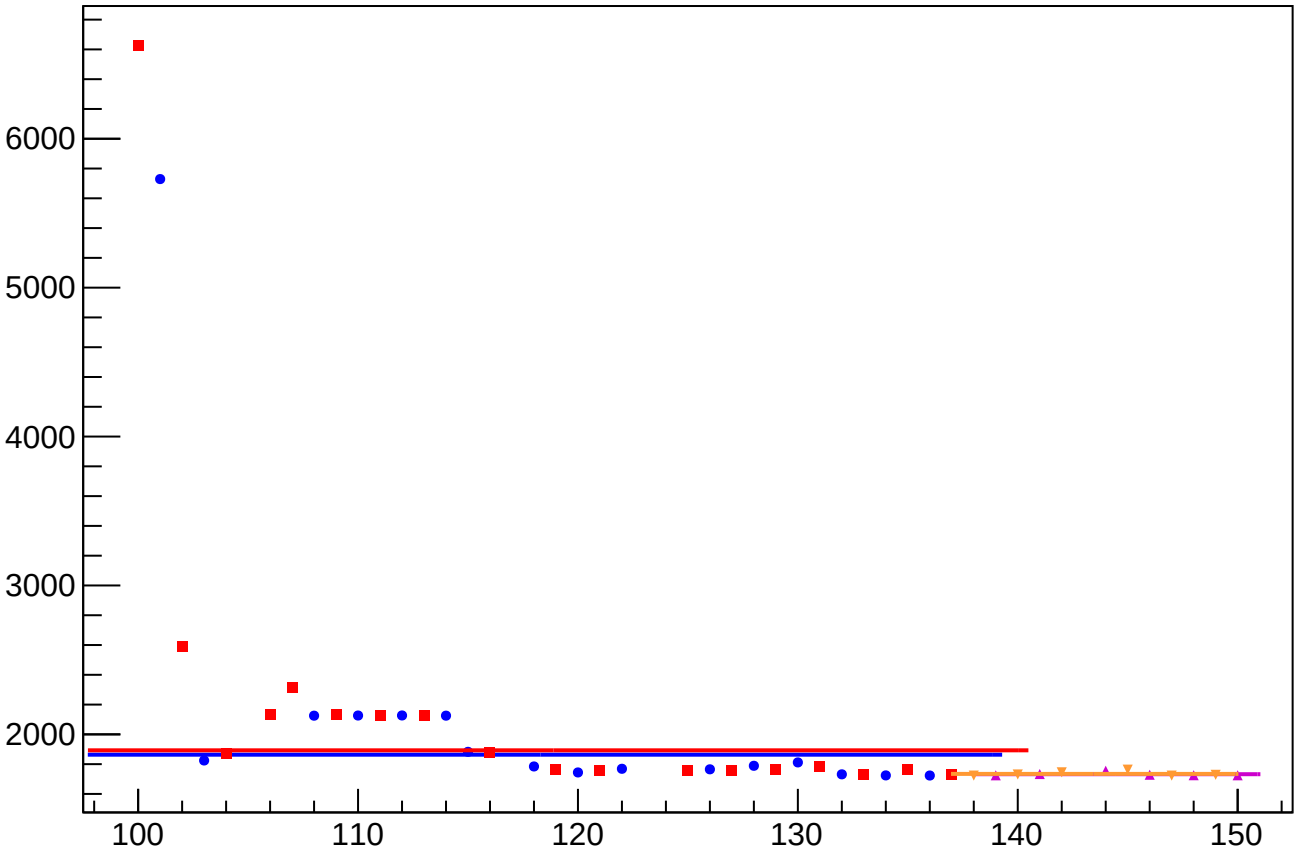
Left: 534.697+/-553.343 $\chi^2$/NDF: 11.6/11

Right: 123.577+/-502.265 $\chi^2$/NDF: 32.2/33

In: 207.422+/-516.726 $\chi^2$/NDF:23.6/21

Out: 418.774+/-535.693 $\chi^2$/NDF:20.3/23

All: 309.291+/-371.905 $\chi^2$/NDF: 44.0/45




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.6/15

Left Out: 1734.493+/-0.576 $\chi^2$/NDF:627.1/5

Right Out: 1892.866+/-0.503 $\chi^2$/NDF: 251512.9/17

Left In: 1732.464+/-0.533 $\chi^2$/NDF:416.0/5

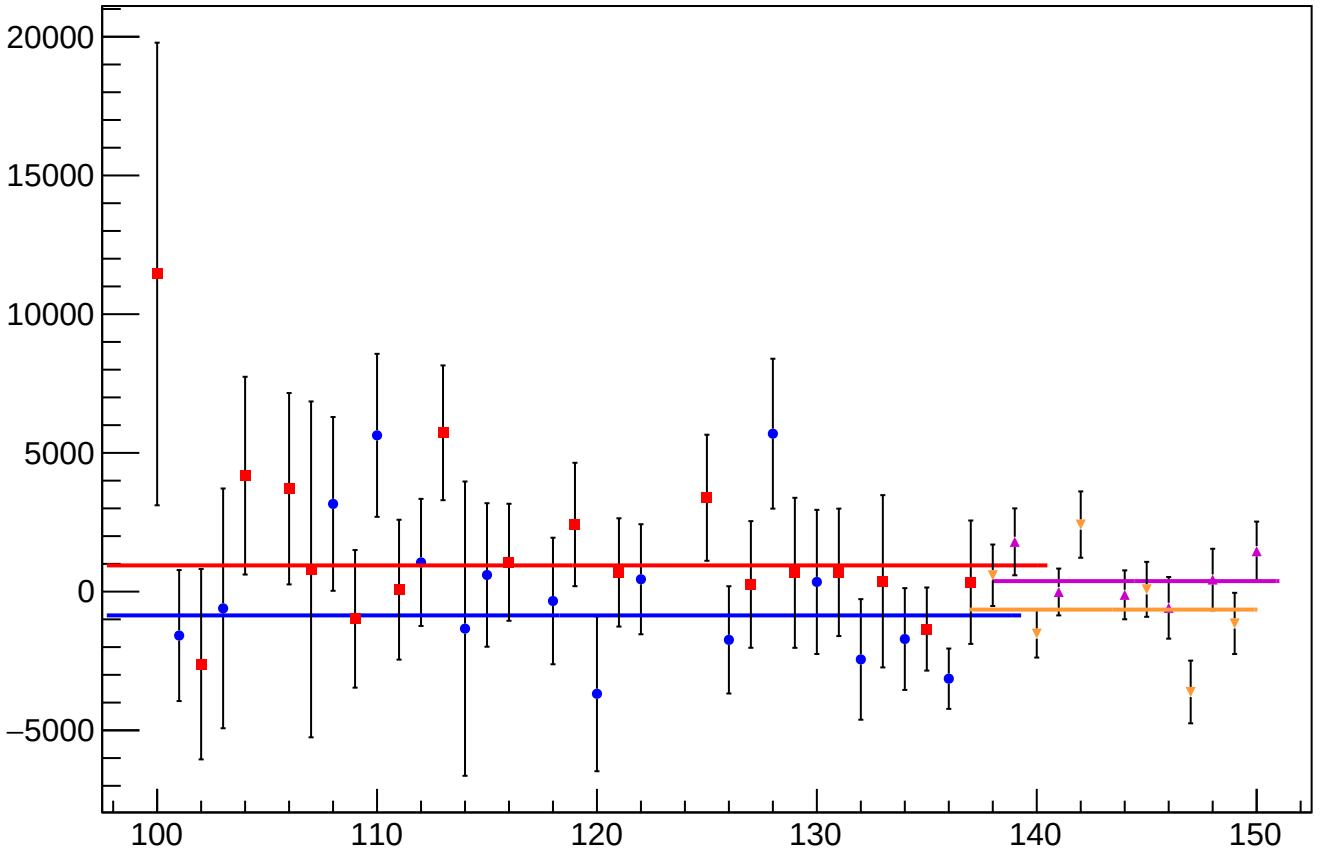
Left: 1733.402+/-0.391 $\chi^2$/NDF: 1049.8/11

Right: 1878.175+/-0.355 $\chi^2$/NDF: 927878.2/33

In: 1802.079+/-0.365 $\chi^2$/NDF:707151.6/21

Out: 1824.276+/-0.379 $\chi^2$/NDF:295059.3/23

All: 1812.777+/-0.263 $\chi^2$/NDF: 1003989.7/45




Right In: -857.294+/-549.791 $\chi^2$/NDF: 20.6/15

Left Out: -648.581+/-427.239 $\chi^2$/NDF:16.5/5

Right Out: 944.718+/-583.967 $\chi^2$/NDF: 12.9/17

Left In: 378.878+/-412.402 $\chi^2$/NDF:3.7/5

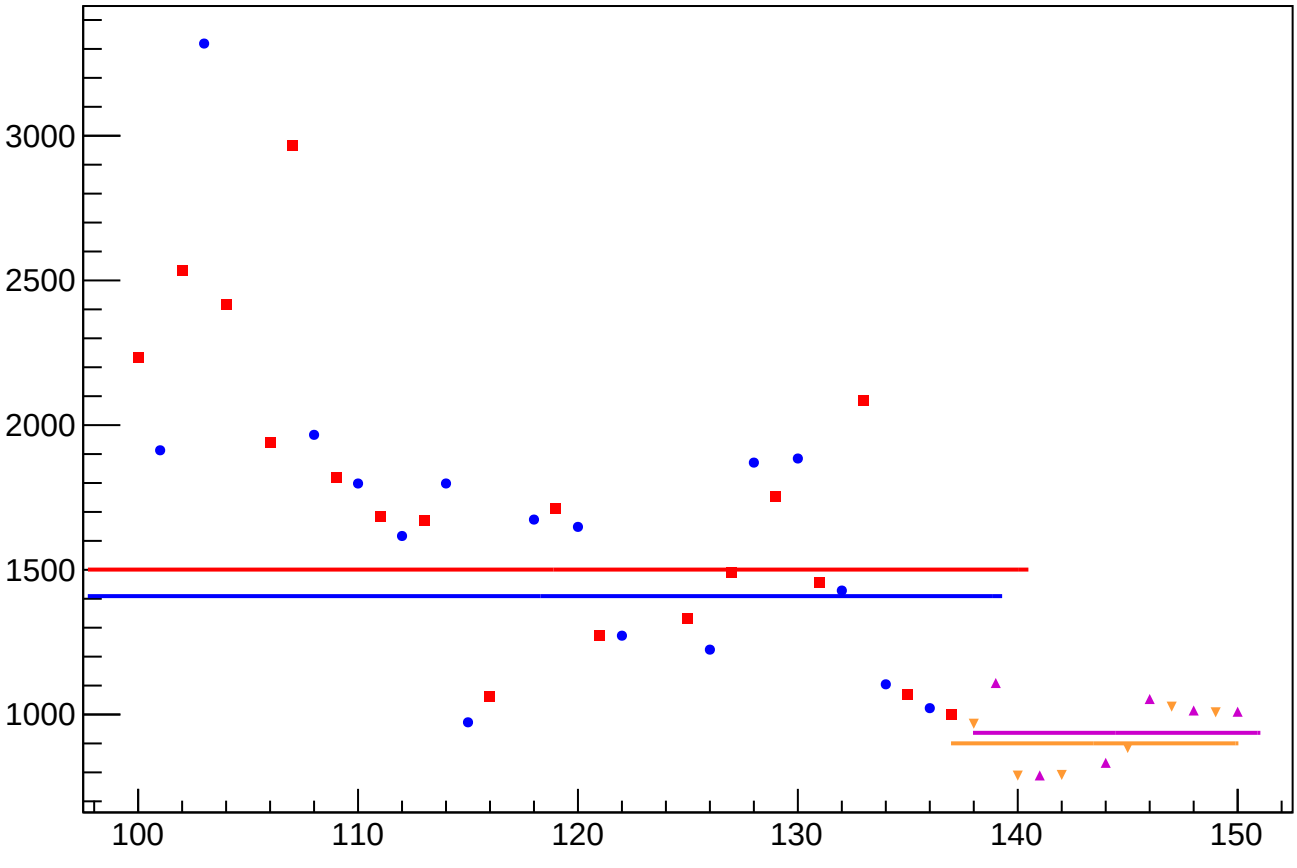
Left: -116.702+/-296.719 $\chi^2$/NDF: 23.1/11

Right: -10.558+/-400.298 $\chi^2$/NDF: 38.6/33

In: -66.225+/-329.905 $\chi^2$/NDF:27.5/21

Out: -93.087+/-344.810 $\chi^2$/NDF:34.2/23

All: -79.063+/-238.373 $\chi^2$/NDF: 61.7/45




Right In: 1409.096+/-0.389 $\chi^2$/NDF: 1167706.6/15

Left Out: 900.314+/-0.302 $\chi^2$/NDF:102089.7/5

Right Out: 1500.801+/-0.413 $\chi^2$/NDF: 1030768.2/17

Left In: 936.688+/-0.292 $\chi^2$/NDF:170440.9/5

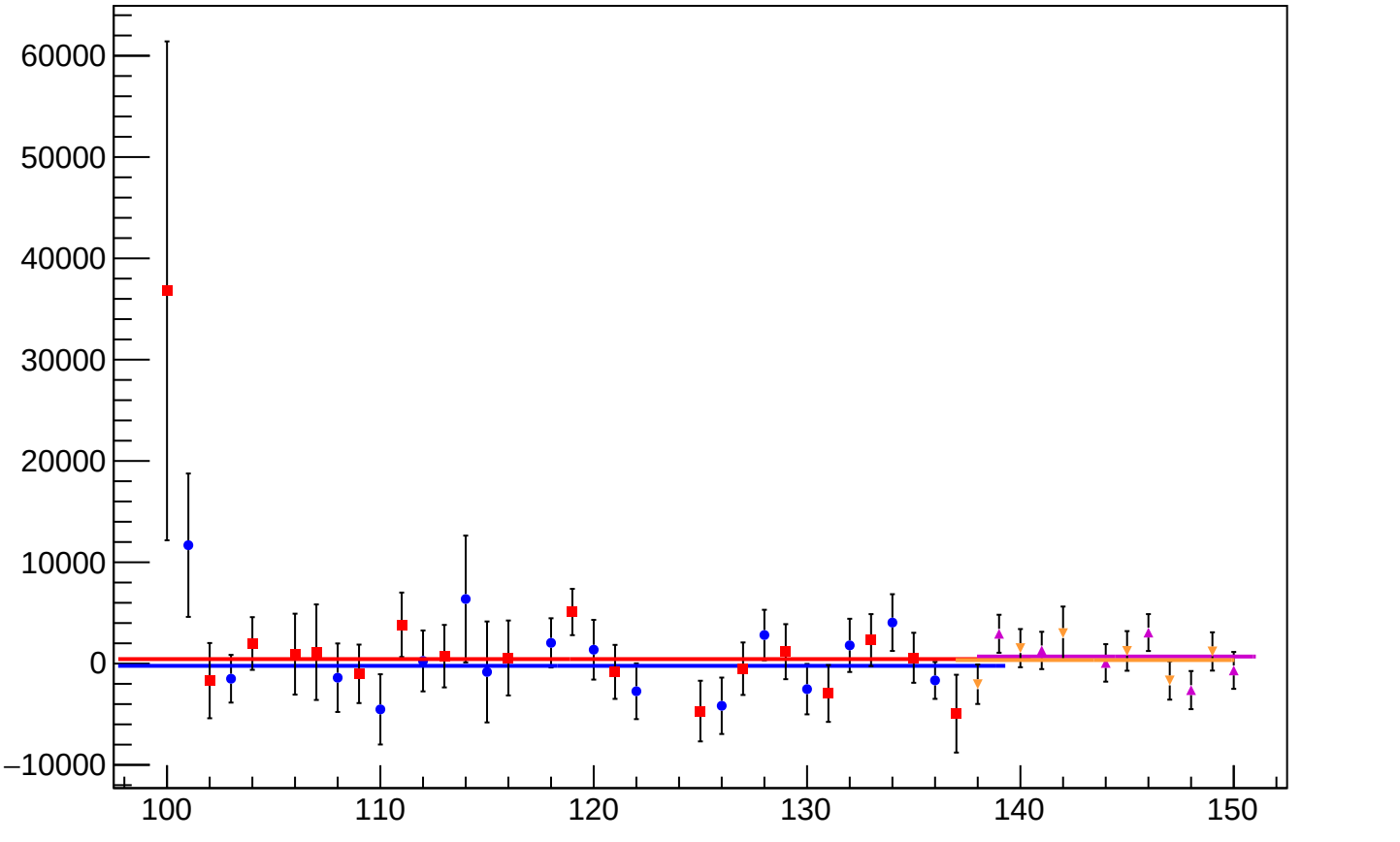
Left: 919.144+/-0.210 $\chi^2$/NDF: 280035.4/11

Right: 1452.187+/-0.283 $\chi^2$/NDF: 2224621.1/33

In: 1106.786+/-0.233 $\chi^2$/NDF:2283085.2/21

Out: 1109.670+/-0.244 $\chi^2$/NDF:2510316.9/23

All: 1108.164+/-0.169 $\chi^2$/NDF: 4793475.2/45




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 348.636+/-814.000 $\chi^2$/NDF:4.4/5

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 694.592+/-754.476 $\chi^2$/NDF:7.0/5

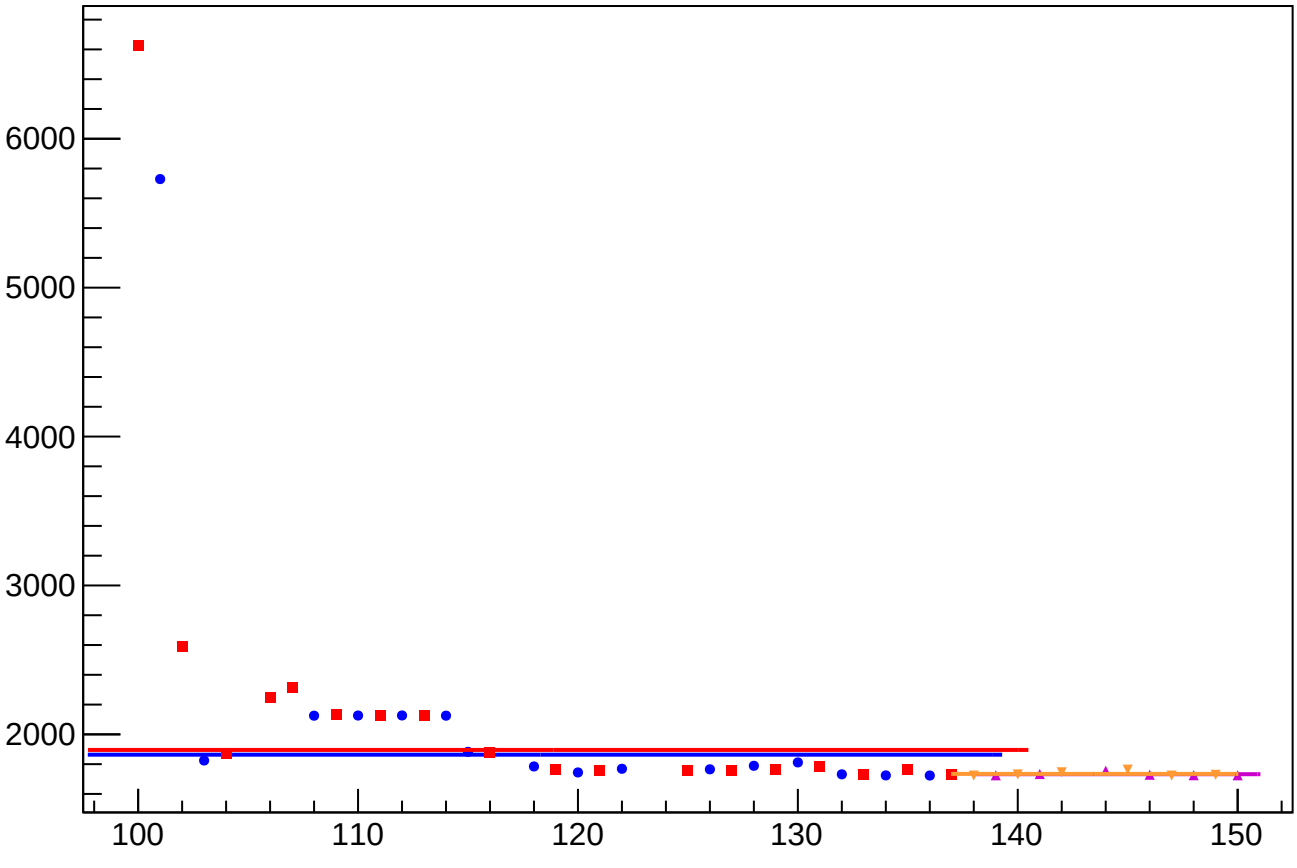
Left: 534.724+/-553.343 $\chi^2$/NDF: 11.6/11

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 207.007+/-516.726 $\chi^2$/NDF:23.6/21

Out: 402.038+/-536.384 $\chi^2$/NDF:20.2/23

All: 300.883+/-372.136 $\chi^2$/NDF: 43.9/45




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1734.493+/-0.576 $\chi^2$/NDF:627.1/5

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1732.464+/-0.533 $\chi^2$/NDF:416.0/5

Left: 1733.402+/-0.391 $\chi^2$/NDF: 1049.8/11

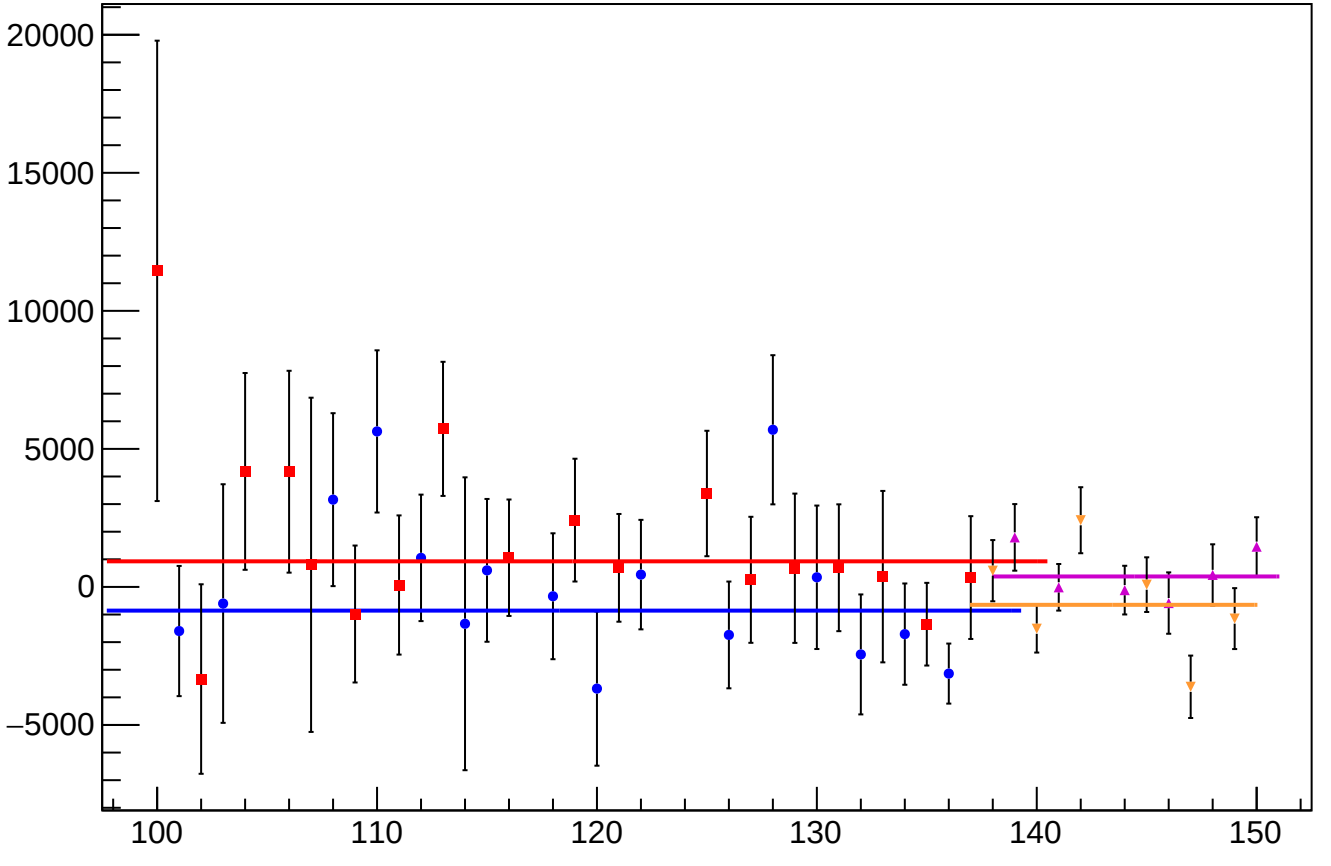
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1802.079+/-0.365 $\chi^2$/NDF:707151.5/21

Out: 1825.584+/-0.379 $\chi^2$/NDF:304065.4/23

All: 1813.393+/-0.263 $\chi^2$/NDF: 1013208.9/45

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -858.115+/-549.748 $\chi^2$/NDF: 20.6/15

Left Out: -648.595+/-427.241 $\chi^2$/NDF:16.5/5

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 379.010+/-412.400 $\chi^2$/NDF:3.7/5

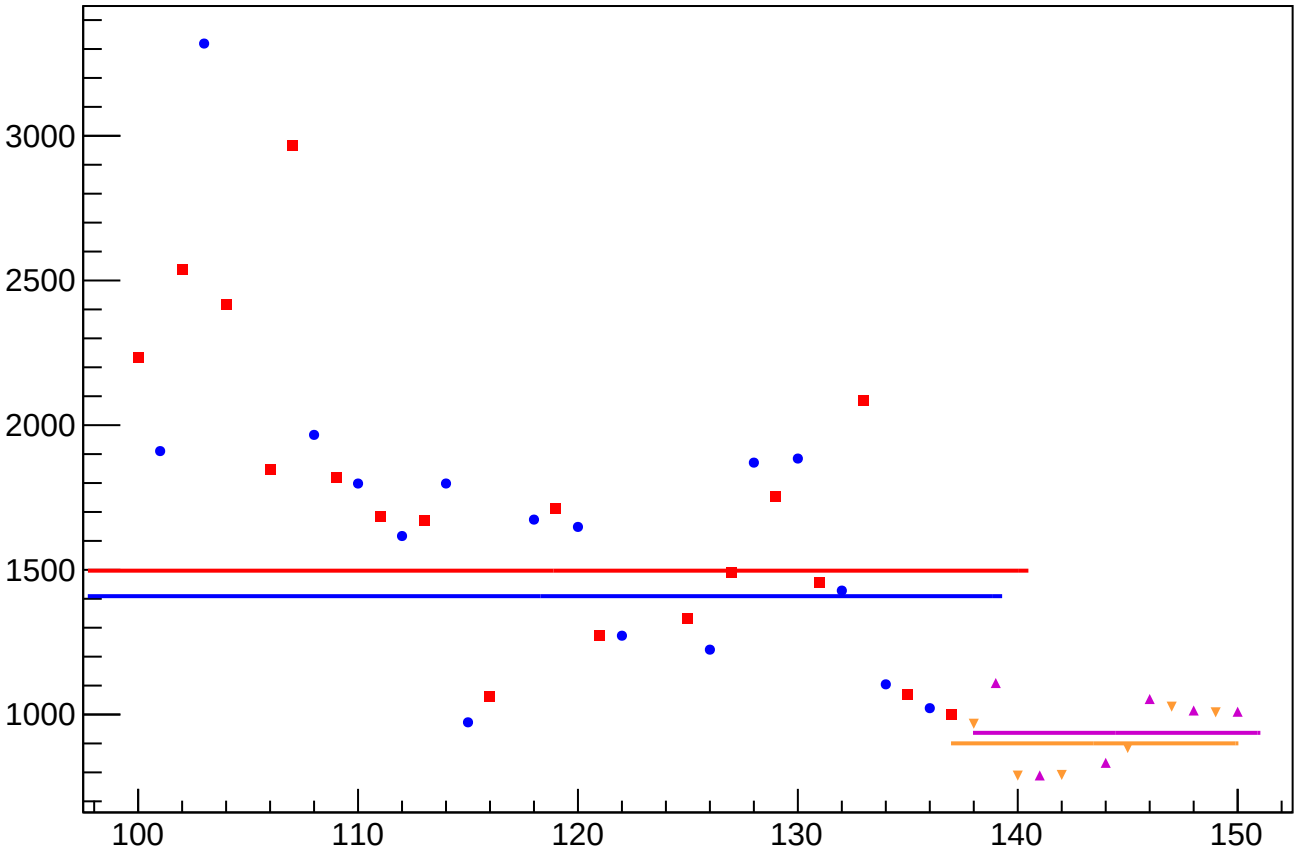
Left: -116.635+/-296.719 $\chi^2$/NDF: 23.1/11

Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: -66.477+/-329.894 $\chi^2$/NDF:27.5/21

Out: -100.328+/-345.000 $\chi^2$/NDF:34.7/23

All: -82.645+/-238.432 $\chi^2$/NDF: 62.3/45




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 900.319+/-0.302 $\chi^2$/NDF:102069.2/5

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 936.682+/-0.292 $\chi^2$/NDF:170454.1/5

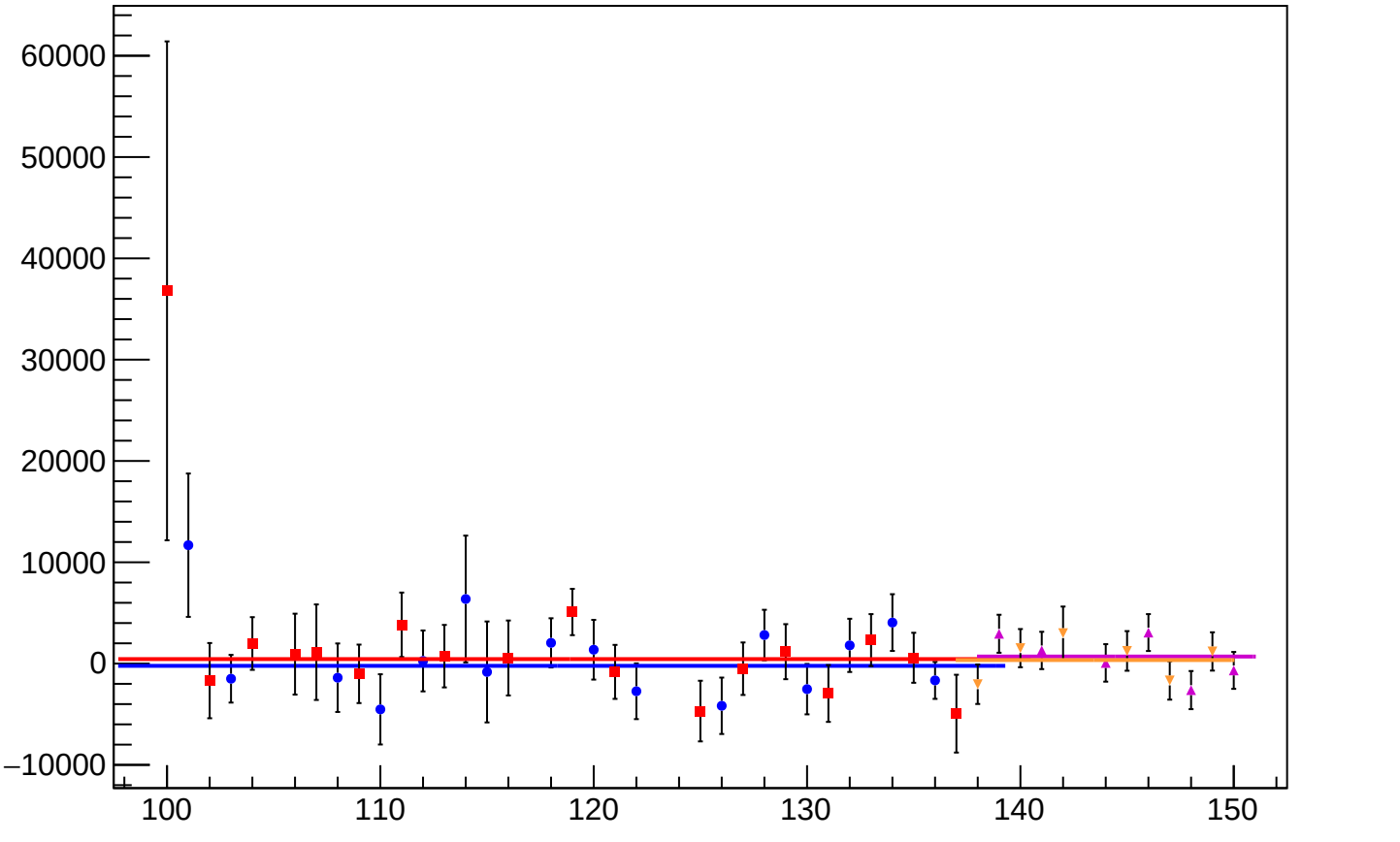
Left: 919.143+/-0.210 $\chi^2$/NDF: 280023.4/11

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 1106.770+/-0.233 $\chi^2$/NDF:2282271.4/21

Out: 1107.975+/-0.244 $\chi^2$/NDF:2478134.6/23

All: 1107.345+/-0.169 $\chi^2$/NDF: 4760418.8/45




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 348.636+/-814.000 $\chi^2$/NDF:4.4/5

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 694.592+/-754.476 $\chi^2$/NDF:7.0/5

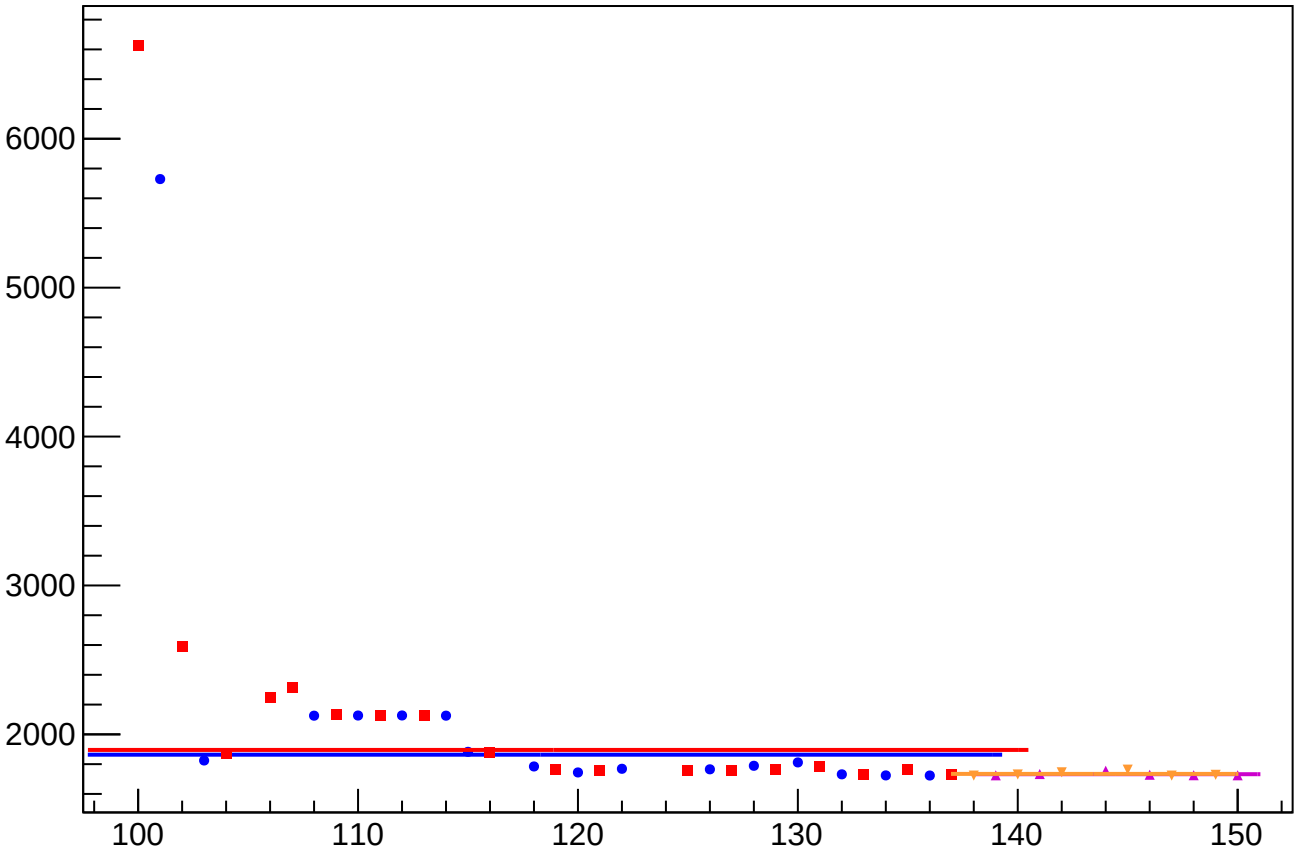
Left: 534.724+/-553.343 $\chi^2$/NDF: 11.6/11

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 207.007+/-516.726 $\chi^2$/NDF:23.6/21

Out: 402.038+/-536.384 $\chi^2$/NDF:20.2/23

All: 300.883+/-372.136 $\chi^2$/NDF: 43.9/45




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1734.493+/-0.576 $\chi^2$/NDF:627.1/5

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1732.464+/-0.533 $\chi^2$/NDF:416.0/5

Left: 1733.402+/-0.391 $\chi^2$/NDF: 1049.8/11

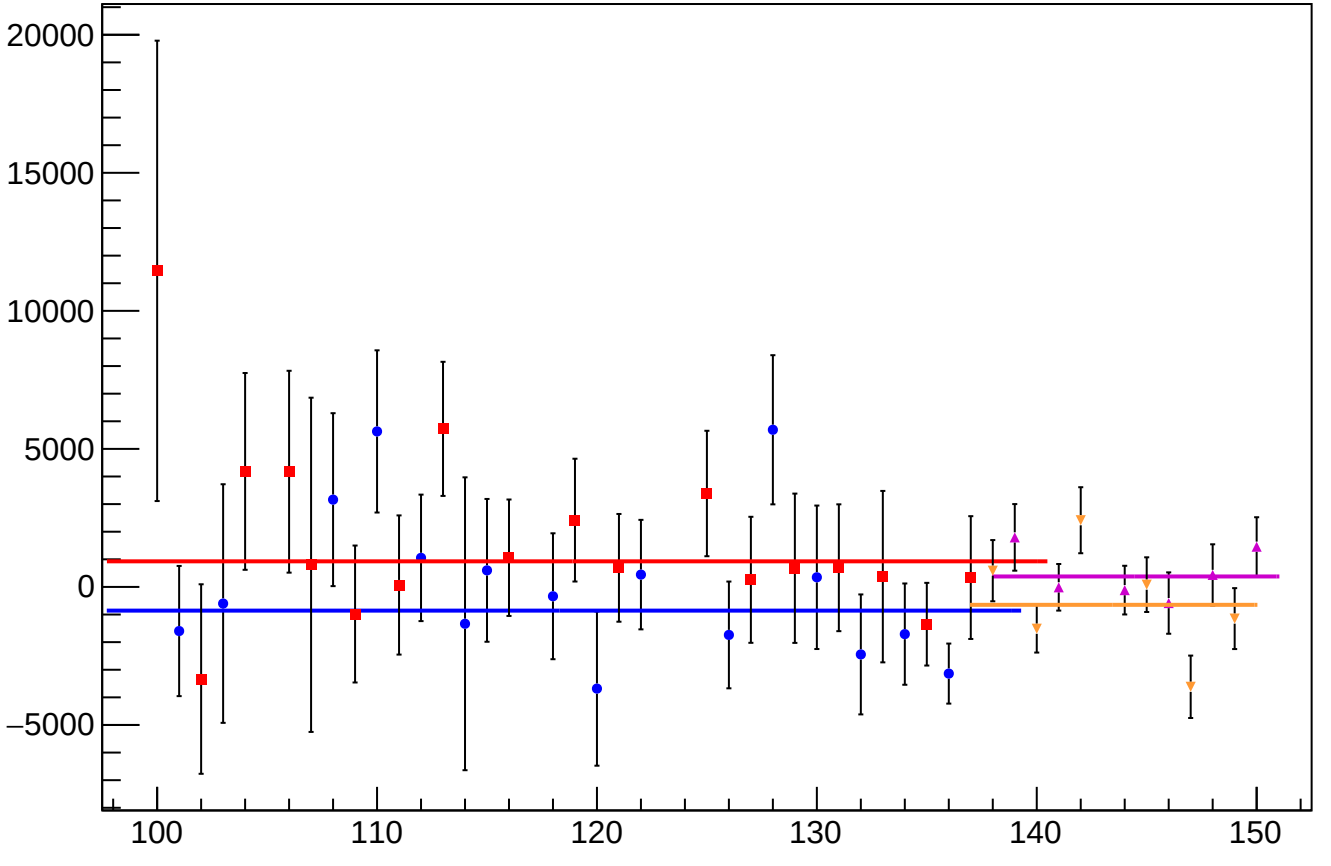
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1802.079+/-0.365 $\chi^2$/NDF:707151.5/21

Out: 1825.584+/-0.379 $\chi^2$/NDF:304065.4/23

All: 1813.393+/-0.263 $\chi^2$/NDF: 1013208.9/45

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -858.115+/-549.748 $\chi^2$/NDF: 20.6/15

Left Out: -648.595+/-427.241 $\chi^2$/NDF:16.5/5

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 379.010+/-412.400 $\chi^2$/NDF:3.7/5

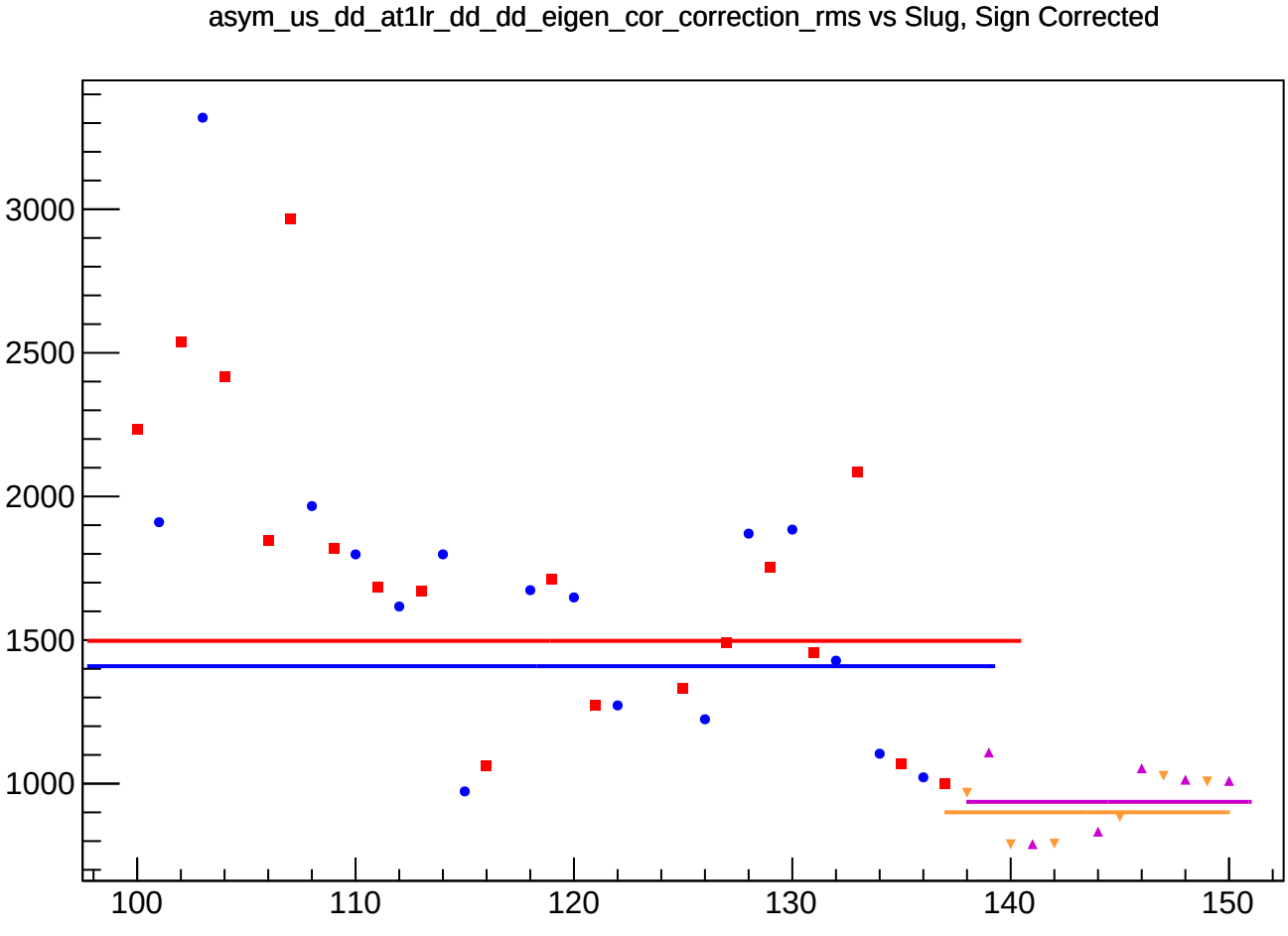
Left: -116.635+/-296.719 $\chi^2$/NDF: 23.1/11

Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: -66.477+/-329.894 $\chi^2$/NDF:27.5/21

Out: -100.328+/-345.000 $\chi^2$/NDF:34.7/23

All: -82.645+/-238.432 $\chi^2$/NDF: 62.3/45




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 900.319+/-0.302 $\chi^2$/NDF:102069.2/5

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 936.682+/-0.292 $\chi^2$/NDF:170454.1/5

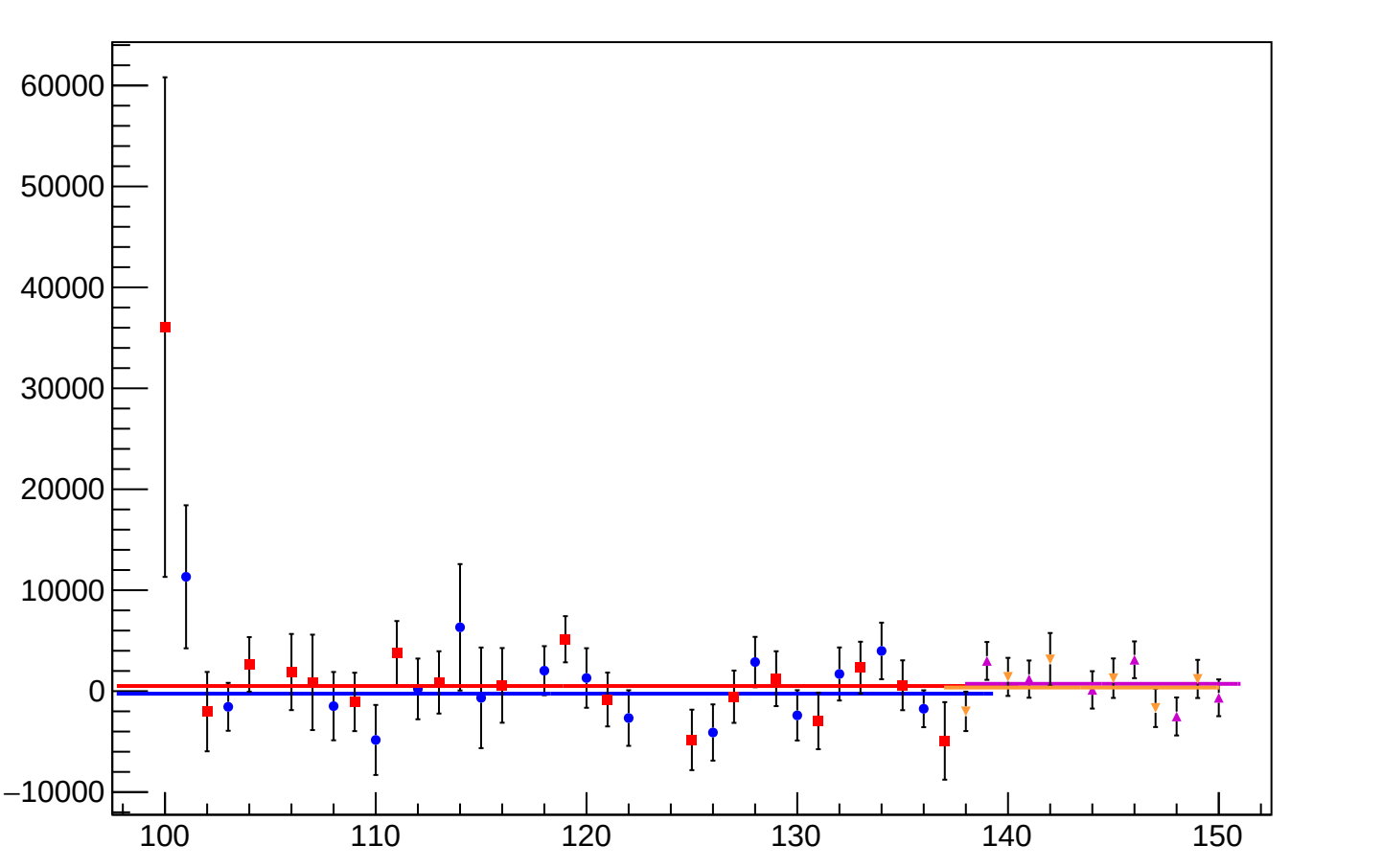
Left: 919.143+/-0.210 $\chi^2$/NDF: 280023.4/11

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 1106.770+/-0.233 $\chi^2$/NDF:2282271.4/21

Out: 1107.975+/-0.244 $\chi^2$/NDF:2478134.6/23

All: 1107.345+/-0.169 $\chi^2$/NDF: 4760418.8/45




Right In: -252.024+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 360.065+/-814.103 $\chi^2$/NDF:4.5/5

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 724.365+/-754.842 $\chi^2$/NDF:6.9/5

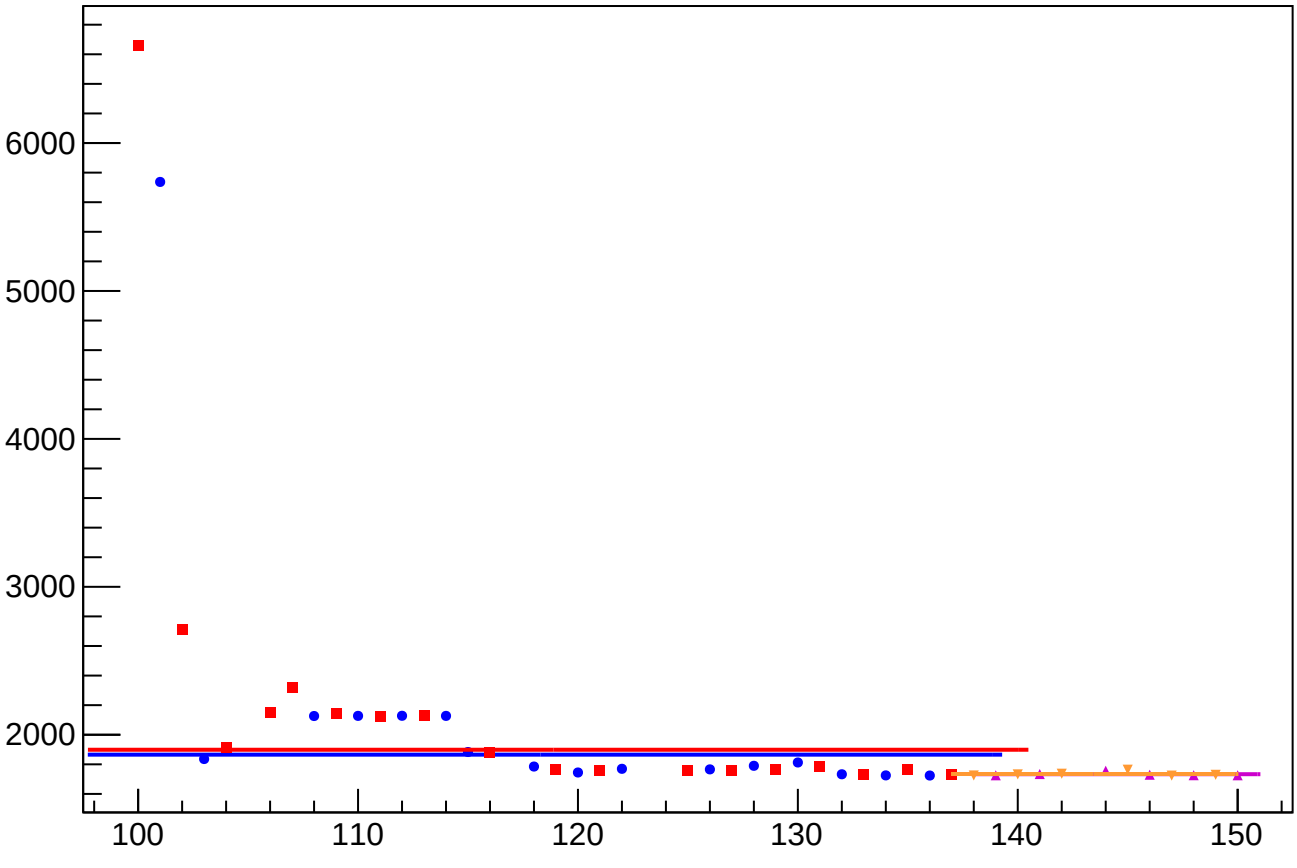
Left: 555.955+/-553.520 $\chi^2$/NDF: 11.4/11

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 206.290+/-517.162 $\chi^2$/NDF:23.4/21

Out: 444.730+/-537.409 $\chi^2$/NDF:20.9/23

All: 320.934+/-372.641 $\chi^2$/NDF: 44.4/45




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1734.607+/-0.576 $\chi^2$/NDF:581.1/5

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269110.1/17

Left In: 1733.305+/-0.534 $\chi^2$/NDF:416.0/5

Left: 1733.907+/-0.391 $\chi^2$/NDF: 999.8/11

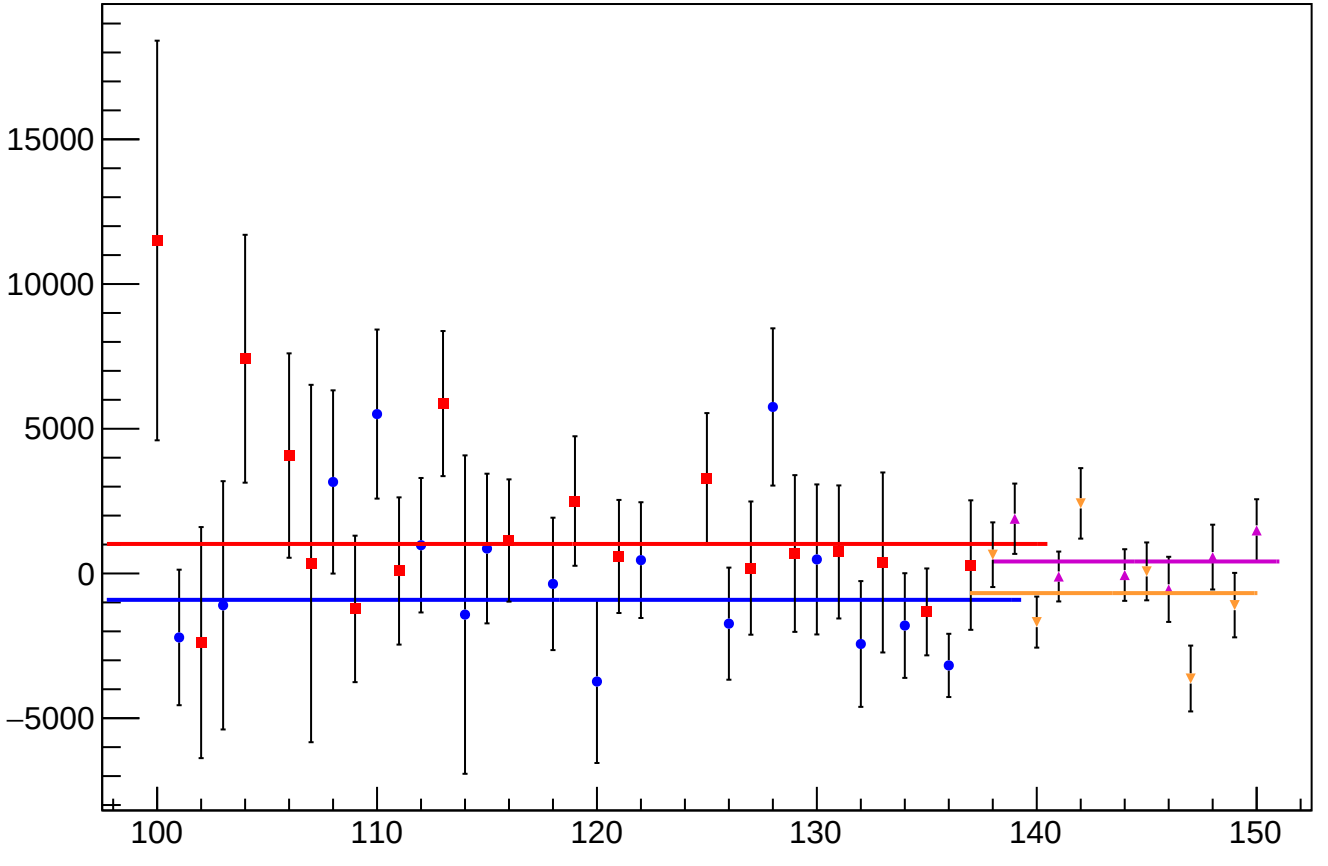
Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.8/33

In: 1803.416+/-0.366 $\chi^2$/NDF:707923.4/21

Out: 1827.140+/-0.380 $\chi^2$/NDF:315483.9/23

All: 1814.823+/-0.263 $\chi^2$/NDF: 1025430.9/45

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -910.955+/-550.836 $\chi^2$/NDF: 21.0/15

Left Out: -678.329+/-432.743 $\chi^2$/NDF:16.6/5

Right Out: 1020.124+/-591.600 $\chi^2$/NDF: 14.9/17

Left In: 414.209+/-417.695 $\chi^2$/NDF:3.9/5

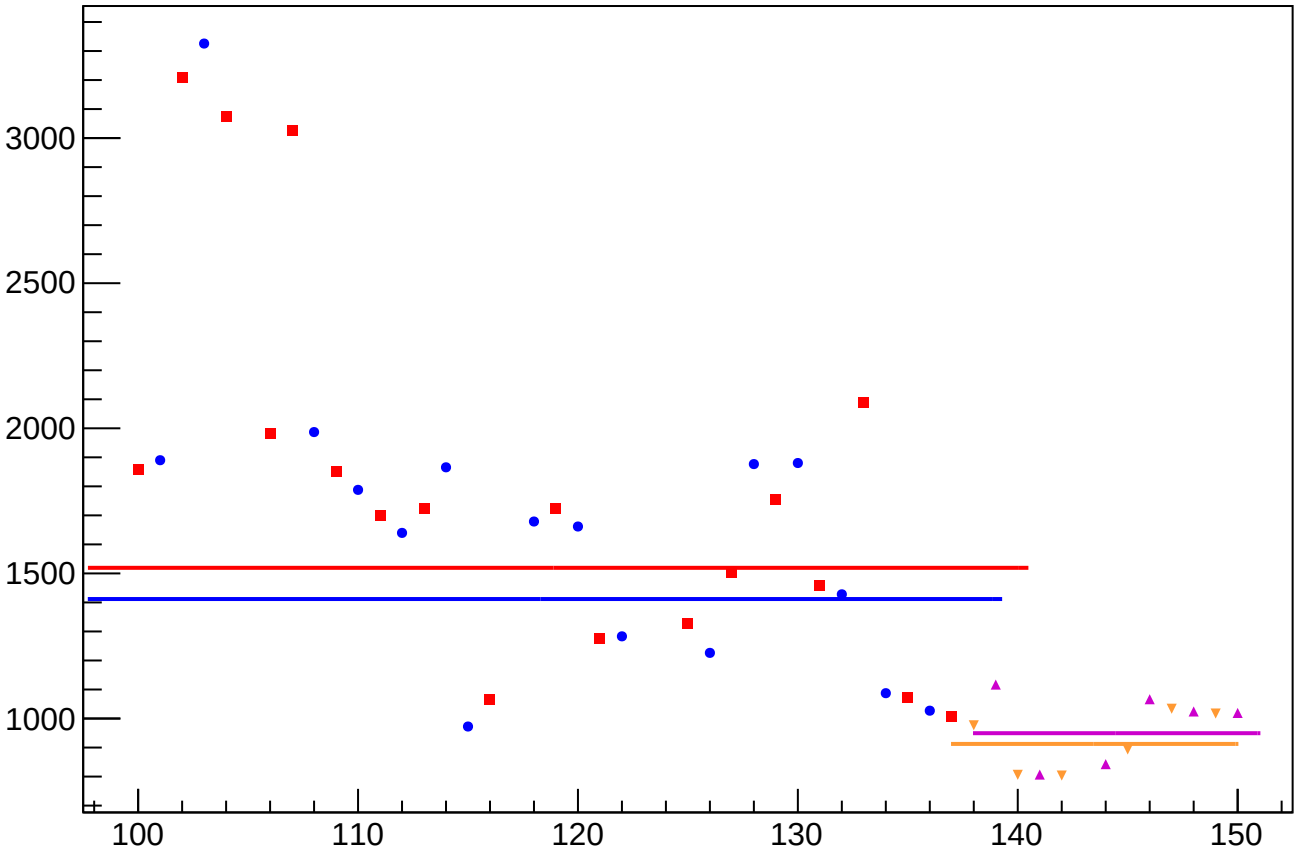
Left: -112.735+/-300.534 $\chi^2$/NDF: 23.8/11

Right: -14.232+/-403.141 $\chi^2$/NDF: 41.6/33

In: -69.586+/-332.827 $\chi^2$/NDF:28.5/21

Out: -86.316+/-349.275 $\chi^2$/NDF:36.9/23

All: -77.547+/-240.949 $\chi^2$/NDF: 65.4/45




Right In: 1411.748+/-0.389 $\chi^2$/NDF: 1177745.4/15

Left Out: 912.485+/-0.306 $\chi^2$/NDF:92873.7/5

Right Out: 1519.305+/-0.418 $\chi^2$/NDF: 1360145.6/17

Left In: 949.460+/-0.295 $\chi^2$/NDF:160334.5/5

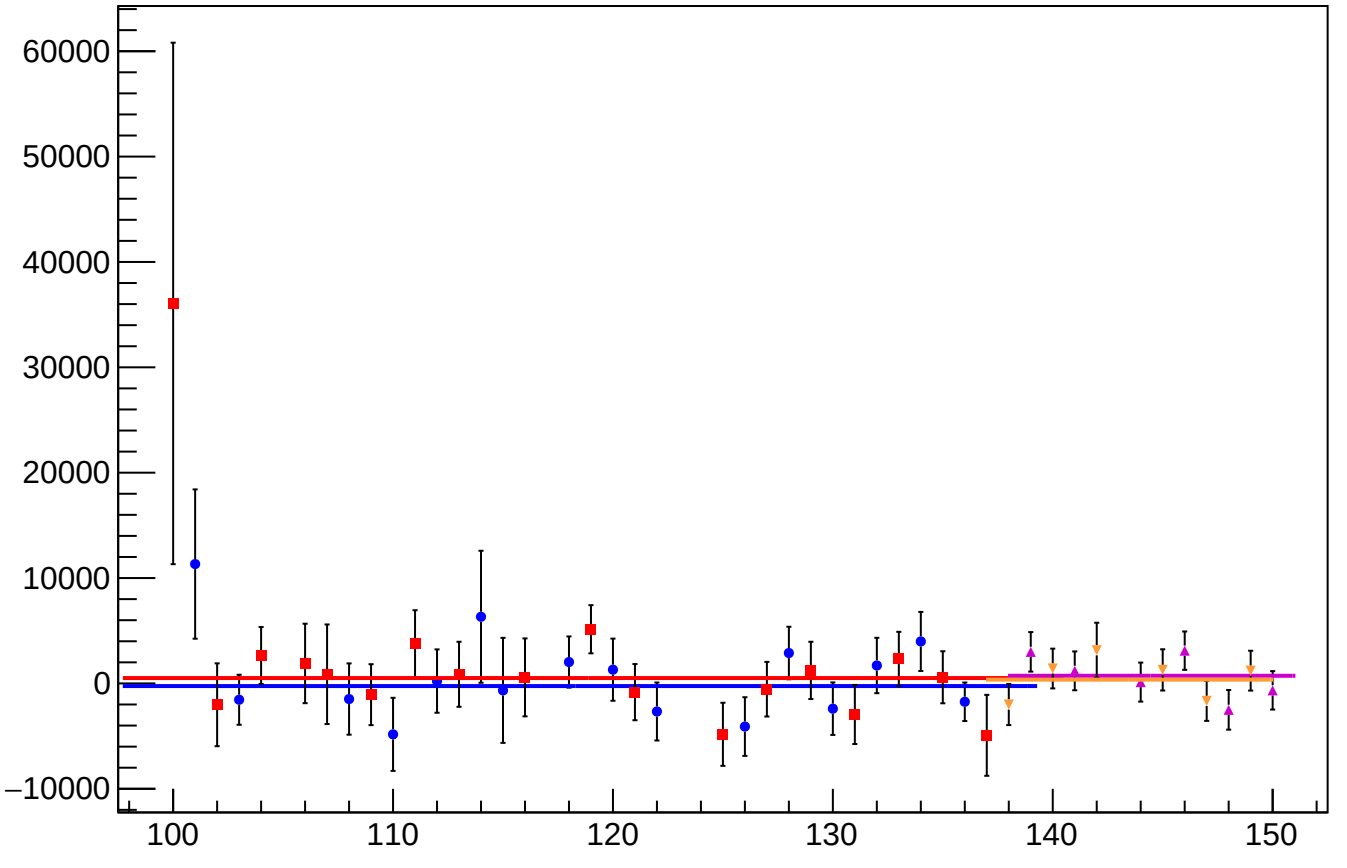
Left: 931.627+/-0.213 $\chi^2$/NDF: 260766.9/11

Right: 1461.694+/-0.285 $\chi^2$/NDF: 2573300.6/33

In: 1118.233+/-0.235 $\chi^2$/NDF:2232471.5/21

Out: 1123.999+/-0.247 $\chi^2$/NDF:2823797.8/23

All: 1120.977+/-0.170 $\chi^2$/NDF: 5056554.8/45




Right In: -252.023+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 360.063+/-814.103 $\chi^2$/NDF:4.5/5

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 724.366+/-754.842 $\chi^2$/NDF:6.9/5

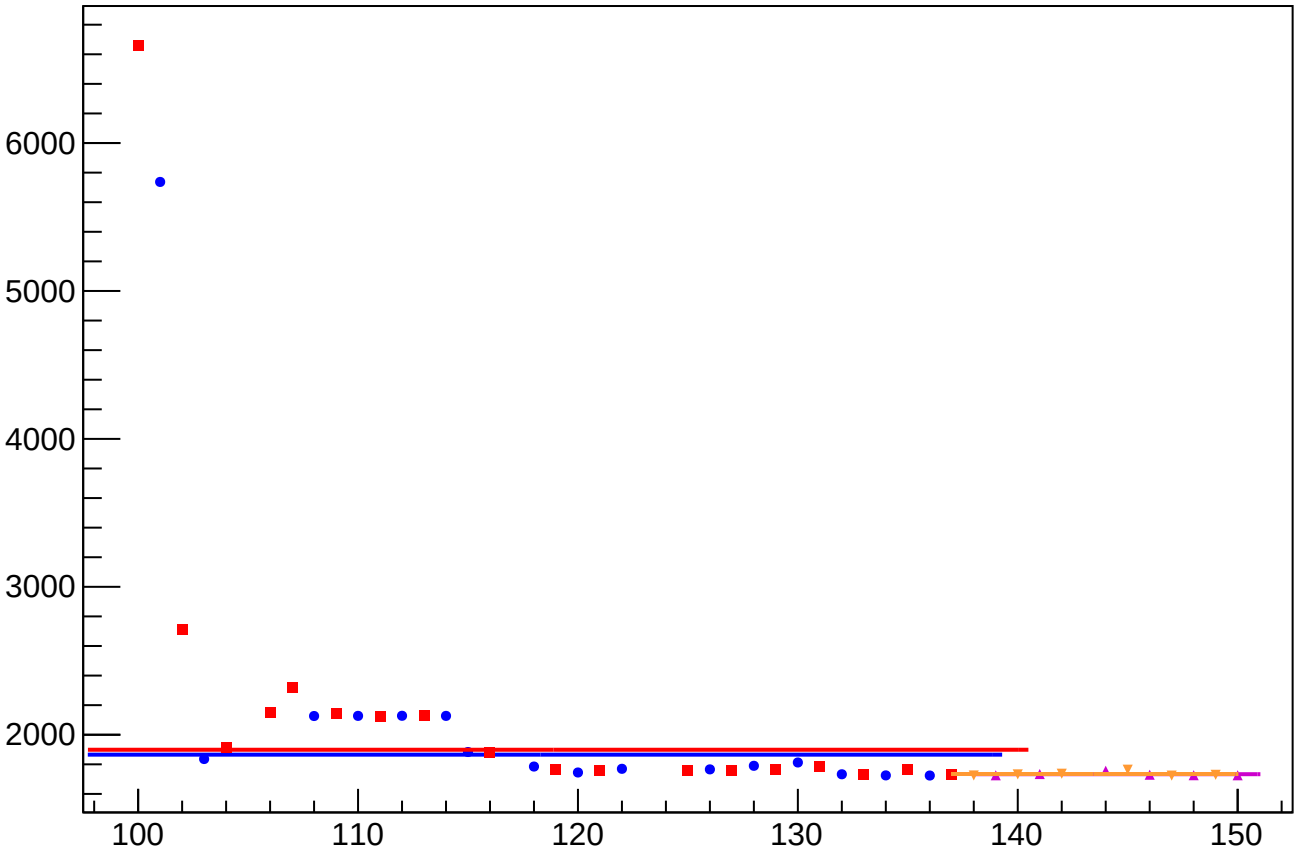
Left: 555.955+/-553.520 $\chi^2$/NDF: 11.4/11

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 206.291+/-517.162 $\chi^2$/NDF:23.4/21

Out: 444.729+/-537.409 $\chi^2$/NDF:20.9/23

All: 320.934+/-372.641 $\chi^2$/NDF: 44.4/45




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1734.607+/-0.576 $\chi^2$/NDF:581.1/5

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269109.9/17

Left In: 1733.305+/-0.534 $\chi^2$/NDF:416.0/5

Left: 1733.907+/-0.391 $\chi^2$/NDF: 999.8/11

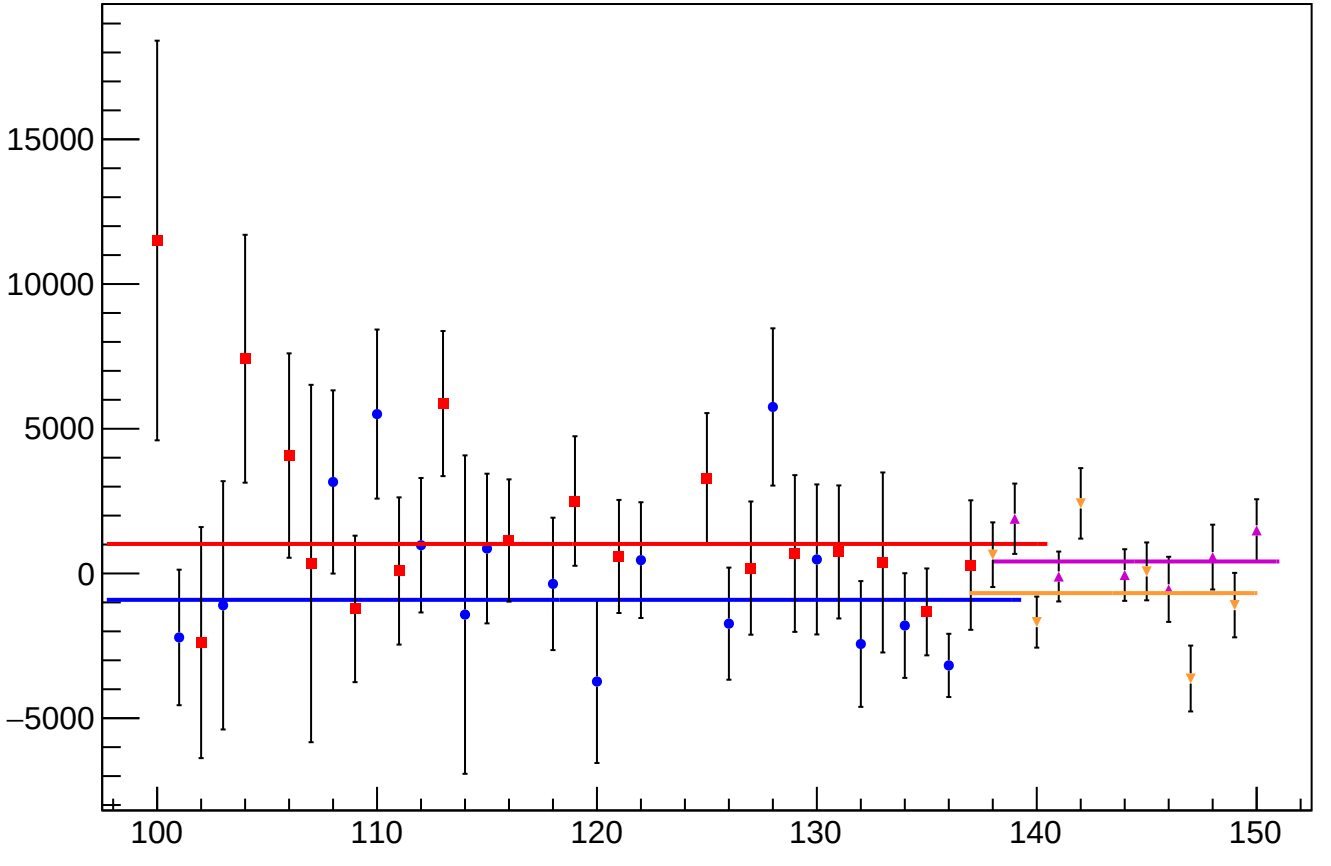
Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.6/33

In: 1803.416+/-0.366 $\chi^2$/NDF:707923.4/21

Out: 1827.140+/-0.380 $\chi^2$/NDF:315483.6/23

All: 1814.823+/-0.263 $\chi^2$/NDF: 1025430.6/45

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -910.950+/-550.835 $\chi^2$/NDF: 21.0/15

Left Out: -678.330+/-432.743 $\chi^2$/NDF:16.6/5

Right Out: 1020.123+/-591.599 $\chi^2$/NDF: 14.9/17

Left In: 414.207+/-417.695 $\chi^2$/NDF:3.9/5

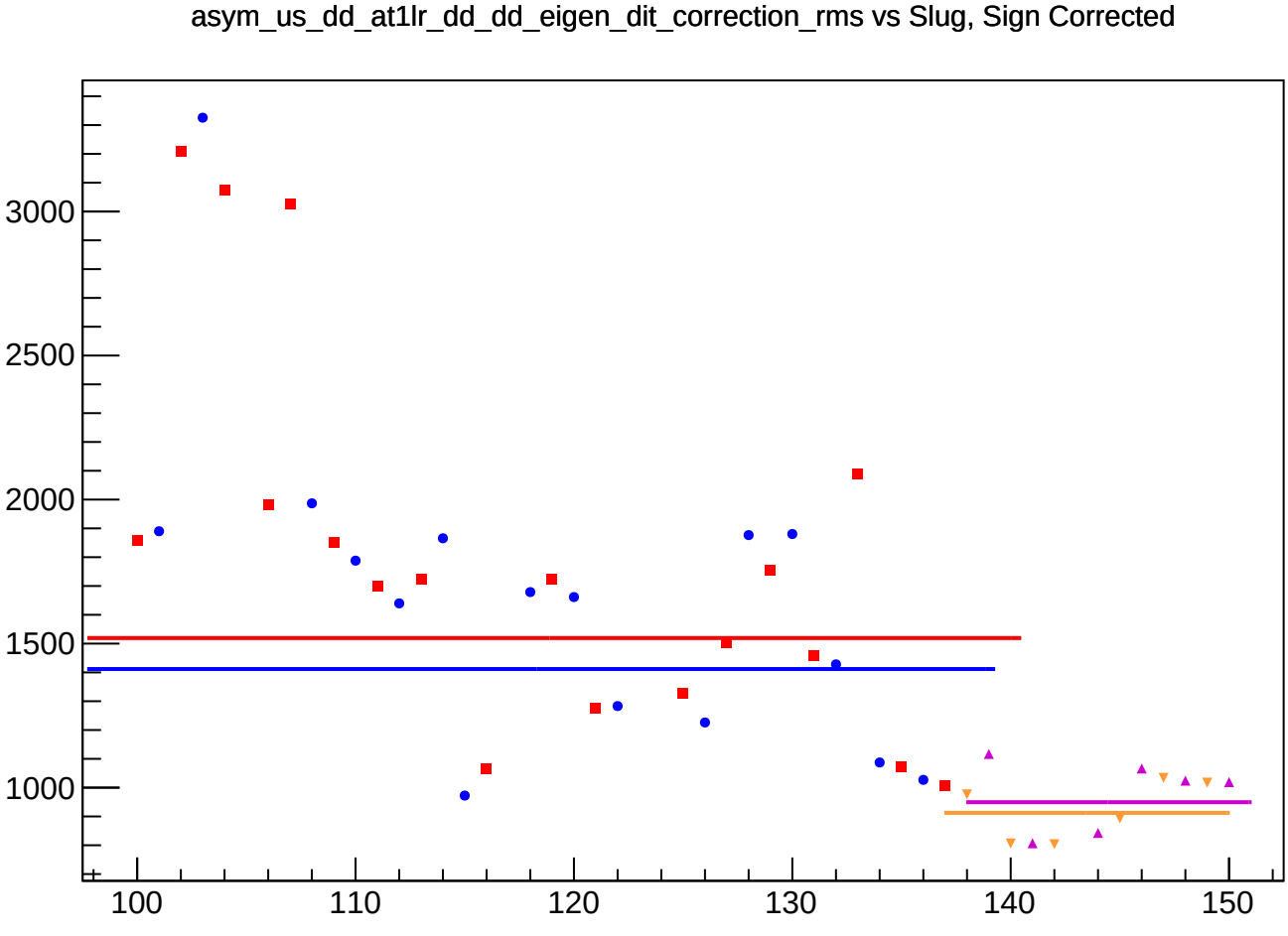
Left: -112.737+/-300.534 $\chi^2$/NDF: 23.8/11

Right: -14.230+/-403.141 $\chi^2$/NDF: 41.6/33

In: -69.586+/-332.826 $\chi^2$/NDF:28.5/21

Out: -86.317+/-349.274 $\chi^2$/NDF:36.9/23

All: -77.548+/-240.949 $\chi^2$/NDF: 65.4/45




Right In: 1411.745+/-0.389 $\chi^2$/NDF: 1177746.1/15

Left Out: 912.484+/-0.306 $\chi^2$/NDF:92877.3/5

Right Out: 1519.302+/-0.418 $\chi^2$/NDF: 1360150.0/17

Left In: 949.459+/-0.295 $\chi^2$/NDF:160339.1/5

Left: 931.626+/-0.213 $\chi^2$/NDF: 260775.5/11

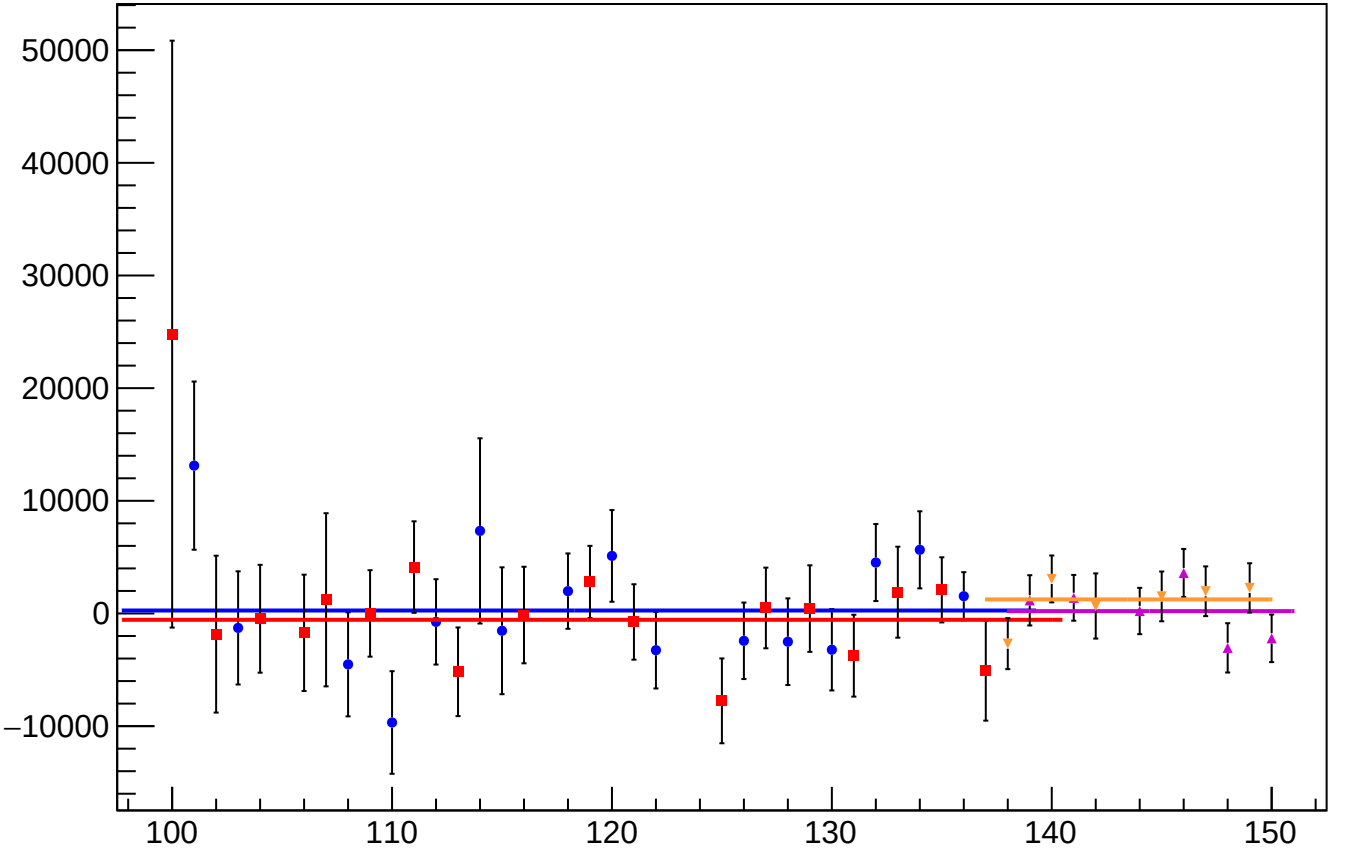
Right: 1461.691+/-0.285 $\chi^2$/NDF: 2573306.2/33

In: 1118.232+/-0.235 $\chi^2$/NDF:2232468.8/21

Out: 1123.997+/-0.247 $\chi^2$/NDF:2823804.4/23

All: 1120.976+/-0.170 $\chi^2$/NDF: 5056558.8/45

# asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected




Right In: 264.383+/-941.979 $\chi^2$/NDF: 19.0/15

Left Out: 1248.303+/-926.620 $\chi^2$/NDF:4.2/5

Right Out: -560.962+/-962.943 $\chi^2$/NDF: 11.7/17

Left In: 209.055+/-866.612 $\chi^2$/NDF:6.6/5

Left: 693.941+/-632.939 $\chi^2$/NDF: 11.4/11

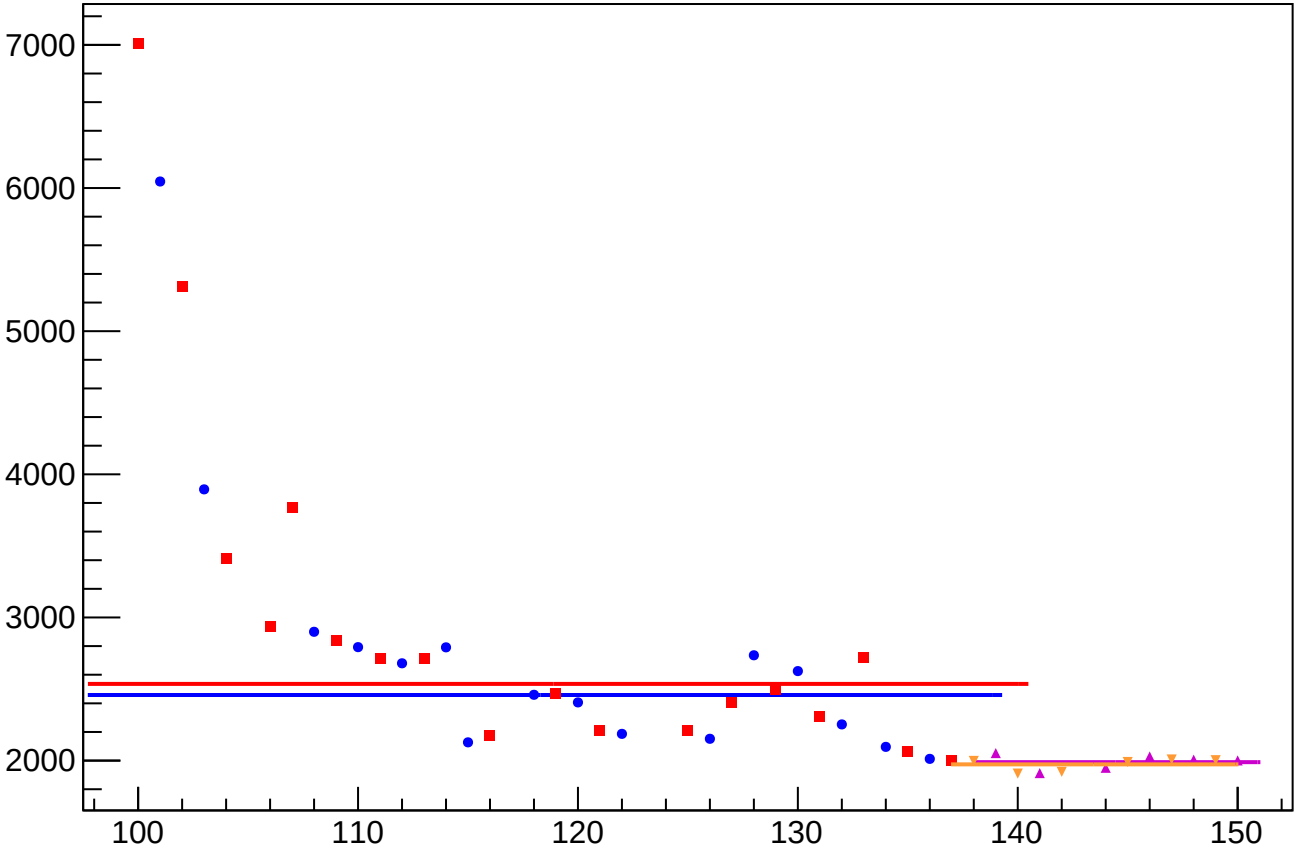
Right: -139.208+/-673.369 $\chi^2$/NDF: 31.2/33

In: 234.417+/-637.770 $\chi^2$/NDF:25.6/21

Out: 378.437+/-667.691 $\chi^2$/NDF:17.7/23

All: 303.128+/-461.187 $\chi^2$/NDF: 43.3/45

# asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected




Right In: 2458.332+/-0.666 $\chi^2$/NDF: 832888.7/15

Left Out: 1973.717+/-0.655 $\chi^2$/NDF:3742.9/5

Right Out: 2535.782+/-0.681 $\chi^2$/NDF: 673337.1/17

Left In: 1989.164+/-0.613 $\chi^2$/NDF:6043.7/5

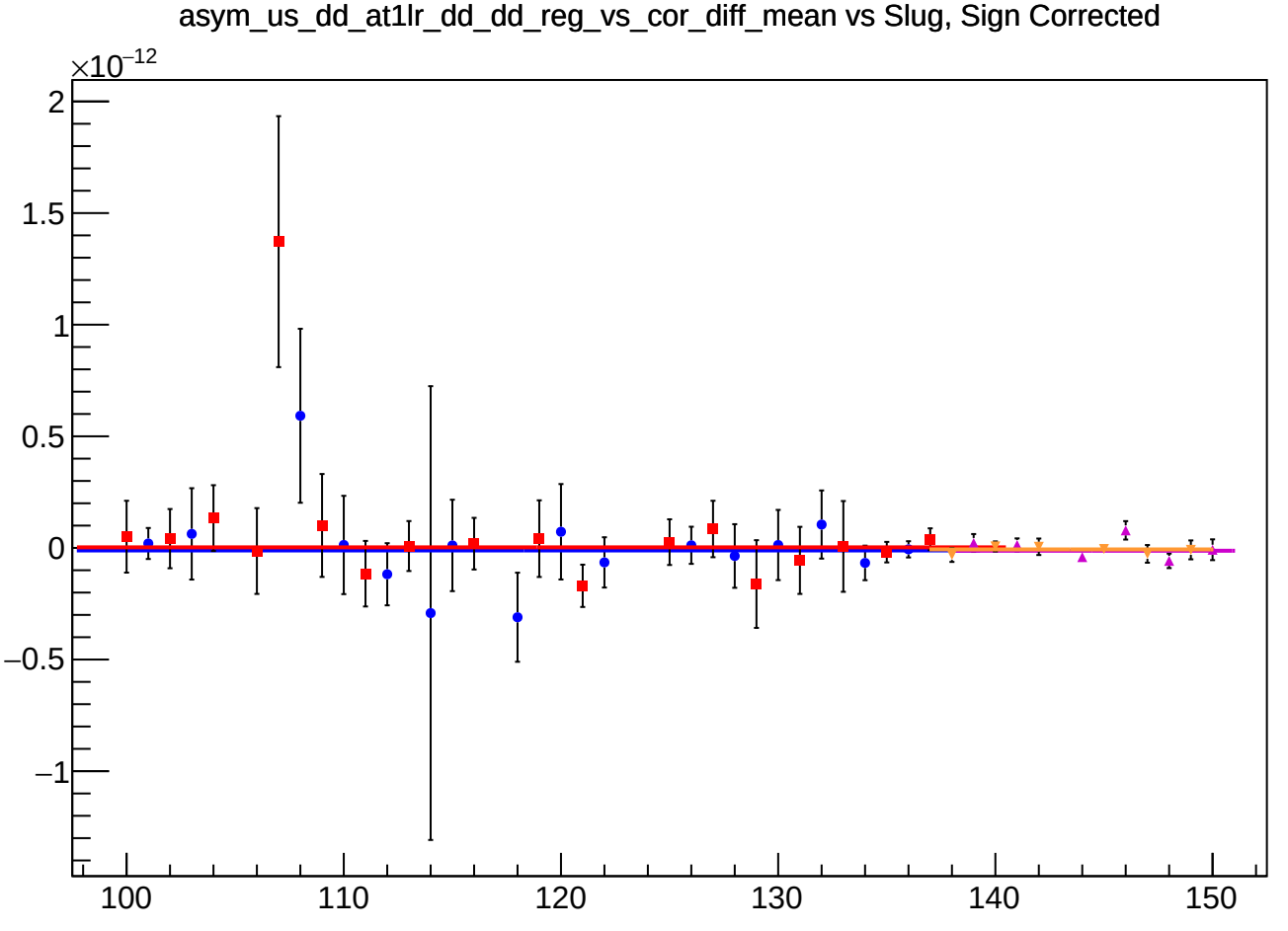
Left: 1981.957+/-0.448 $\chi^2$/NDF: 10083.2/11

Right: 2496.205+/-0.476 $\chi^2$/NDF: 1512837.3/33

In: 2204.231+/-0.451 $\chi^2$/NDF:1107640.7/21

Out: 2243.950+/-0.472 $\chi^2$/NDF:1030875.3/23

All: 2223.181+/-0.326 $\chi^2$/NDF: 2142216.9/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.2/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 11.7/11

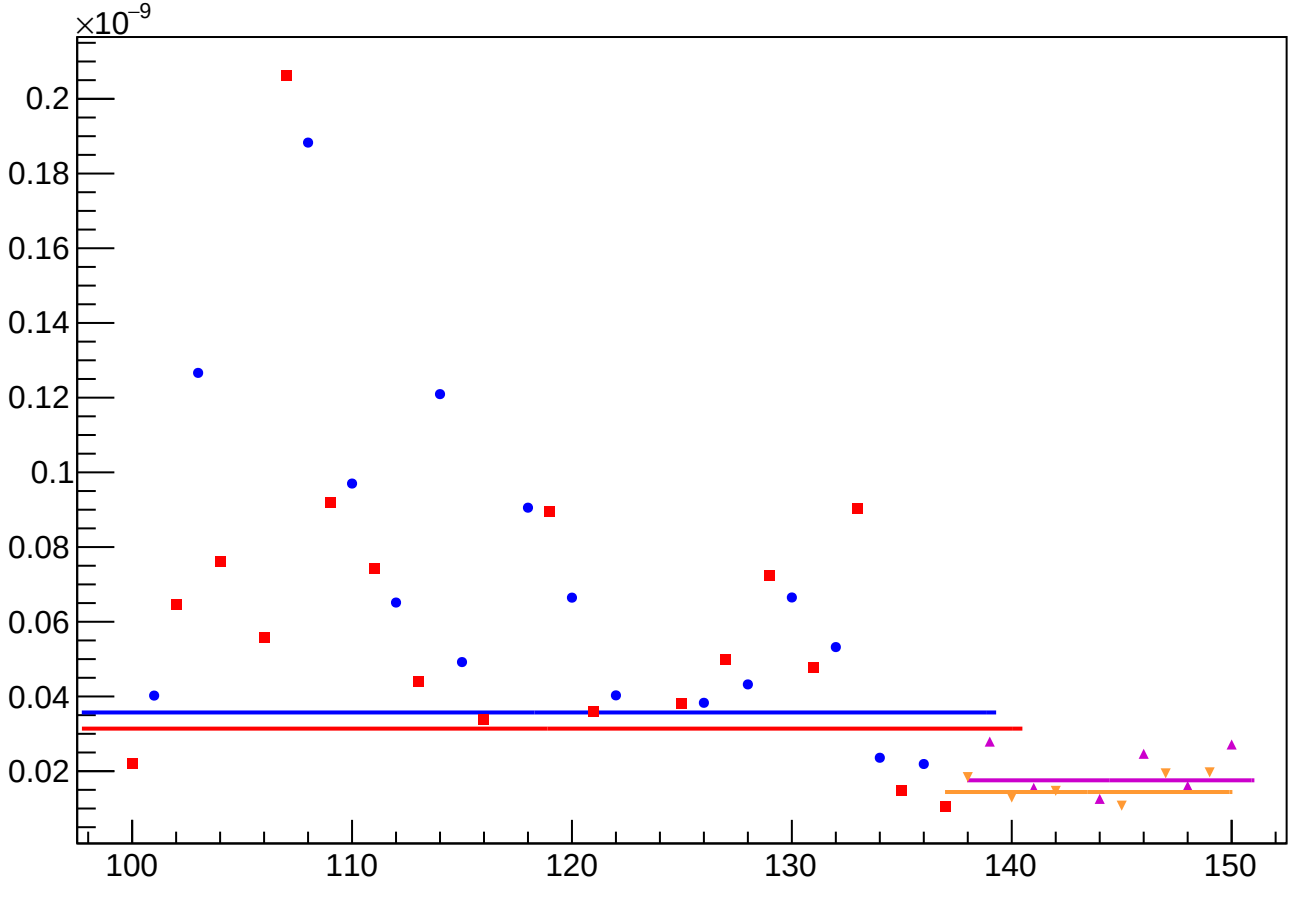
Right: -0.000+/-0.000 $\chi^2$/NDF: 20.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:17.5/21

Out: -0.000+/-0.000 $\chi^2$/NDF:14.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 32.4/45

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1620217.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:158278.2/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2068272.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:404433.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 626061.9/11

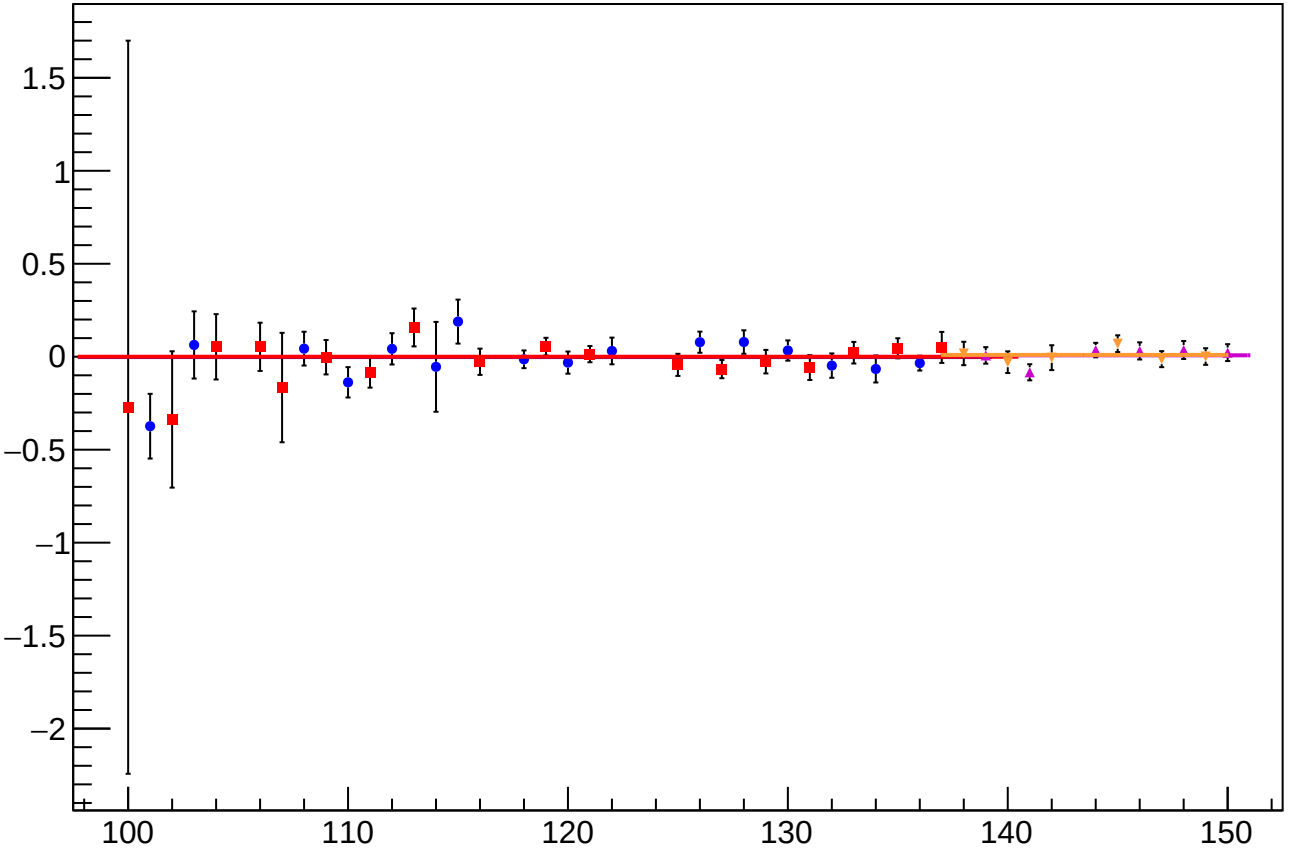
Right: 0.000+/-0.000 $\chi^2$/NDF: 3719751.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:2884442.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3007373.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6005775.9/45

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:2.6/5

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.018 $\chi^2$/NDF:5.7/5

Left: 0.009+/-0.014 $\chi^2$/NDF: 8.3/11

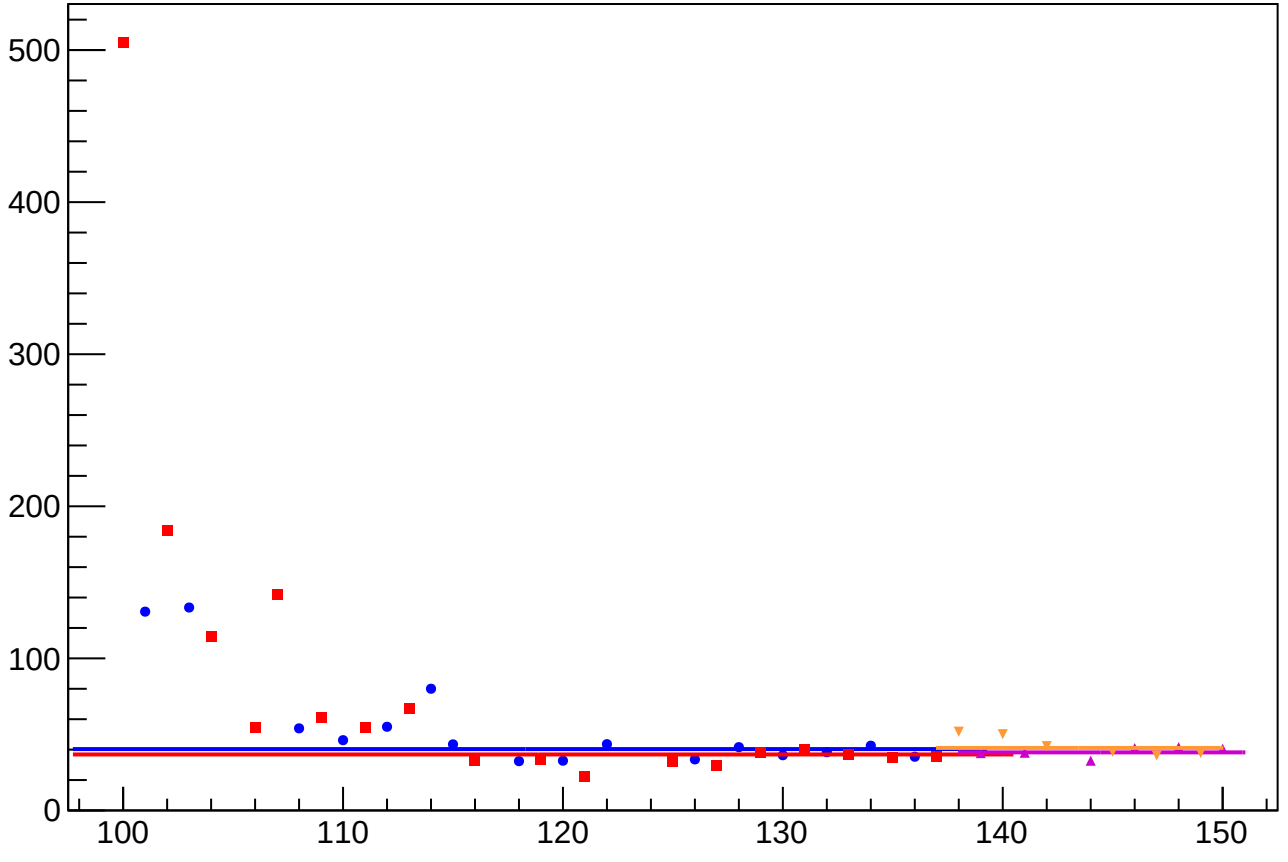
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.003+/-0.012 $\chi^2$/NDF:22.9/21

Out: 0.004+/-0.013 $\chi^2$/NDF:13.7/23

All: 0.003+/-0.009 $\chi^2$/NDF: 36.6/45

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410137.1/15

Left Out: 41.115+/-0.015 $\chi^2$/NDF:150437.5/5

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 38.194+/-0.013 $\chi^2$/NDF:62846.9/5

Left: 39.442+/-0.010 $\chi^2$/NDF: 235777.8/11

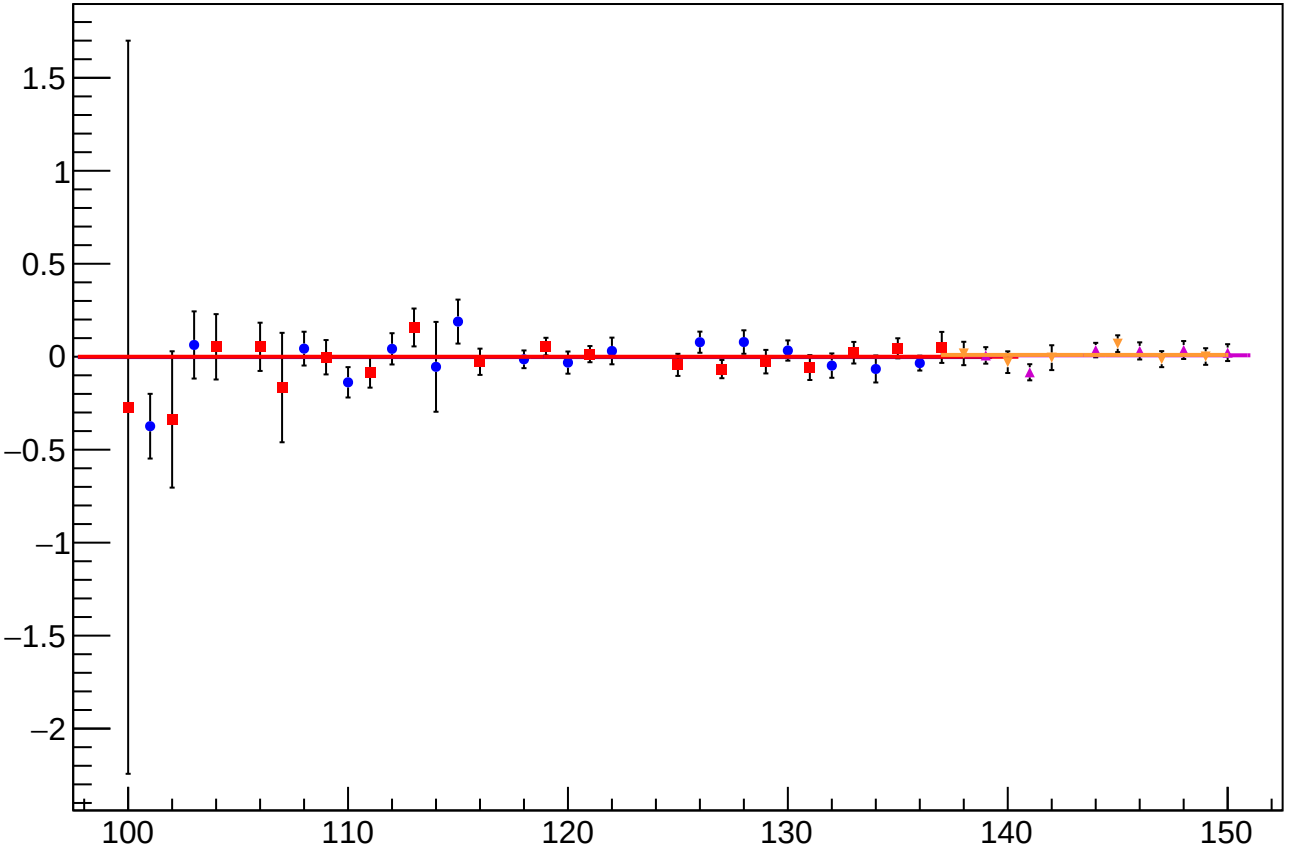
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 39.330+/-0.009 $\chi^2$/NDF:1488100.8/21

Out: 38.498+/-0.009 $\chi^2$/NDF:2039249.3/23

All: 38.934+/-0.006 $\chi^2$/NDF: 3531631.7/45

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:2.6/5

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.018 $\chi^2$/NDF:5.7/5

Left: 0.009+/-0.014 $\chi^2$/NDF: 8.3/11

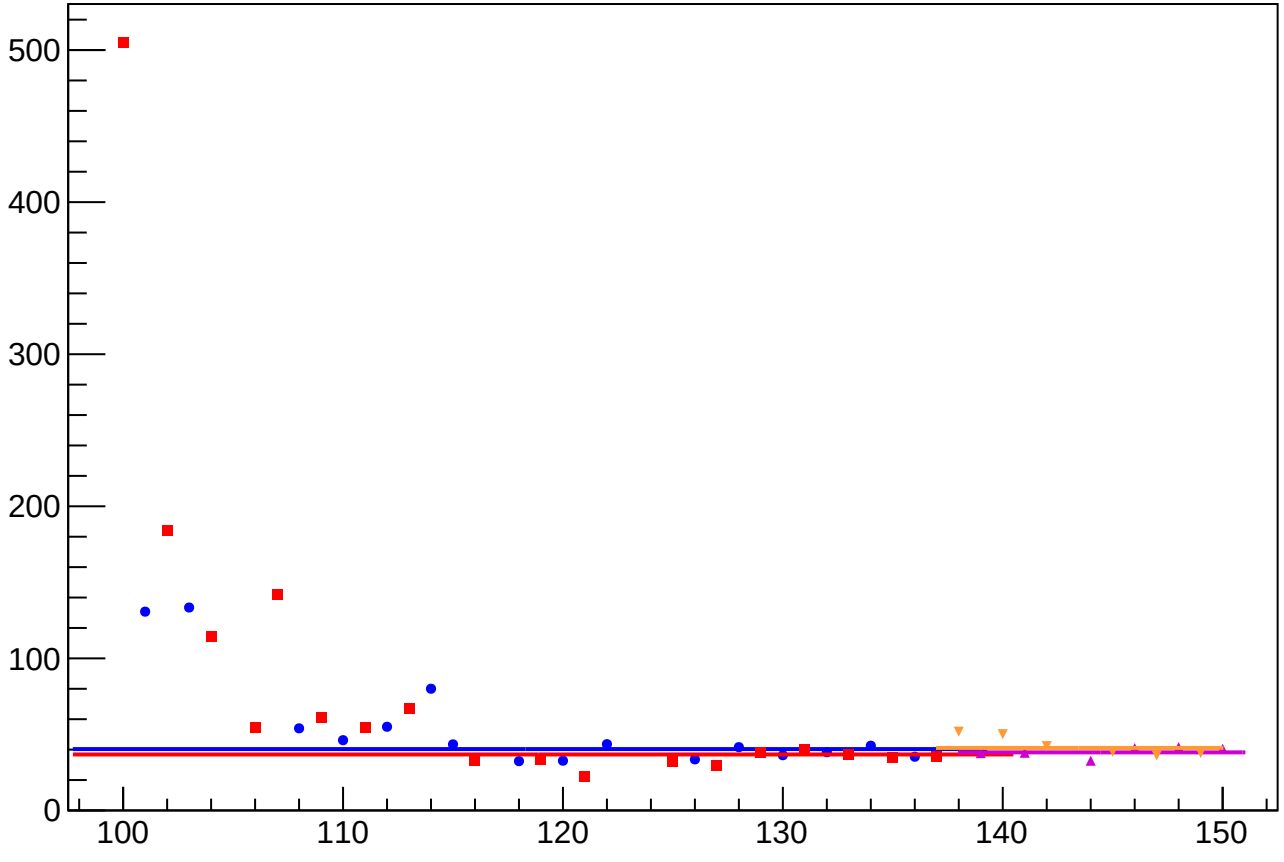
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.003+/-0.012 $\chi^2$/NDF:22.9/21

Out: 0.004+/-0.013 $\chi^2$/NDF:13.7/23

All: 0.003+/-0.009 $\chi^2$/NDF: 36.6/45

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410137.1/15

Left Out: 41.115+/-0.015 $\chi^2$/NDF:150437.5/5

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 38.194+/-0.013 $\chi^2$/NDF:62846.9/5

Left: 39.442+/-0.010 $\chi^2$/NDF: 235777.8/11

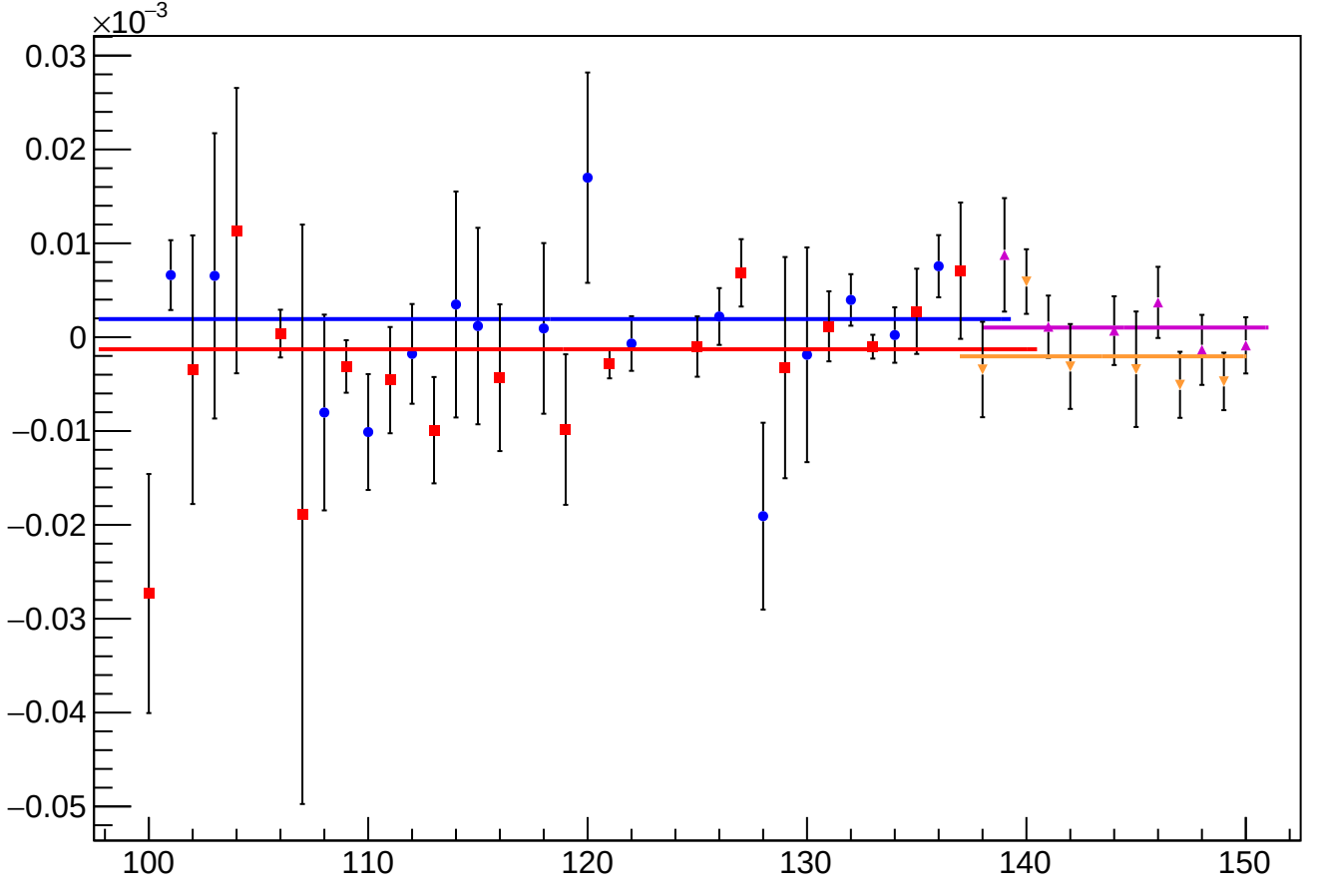
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 39.330+/-0.009 $\chi^2$/NDF:1488100.8/21

Out: 38.498+/-0.009 $\chi^2$/NDF:2039249.3/23

All: 38.934+/-0.006 $\chi^2$/NDF: 3531631.7/45

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.0/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.0/5

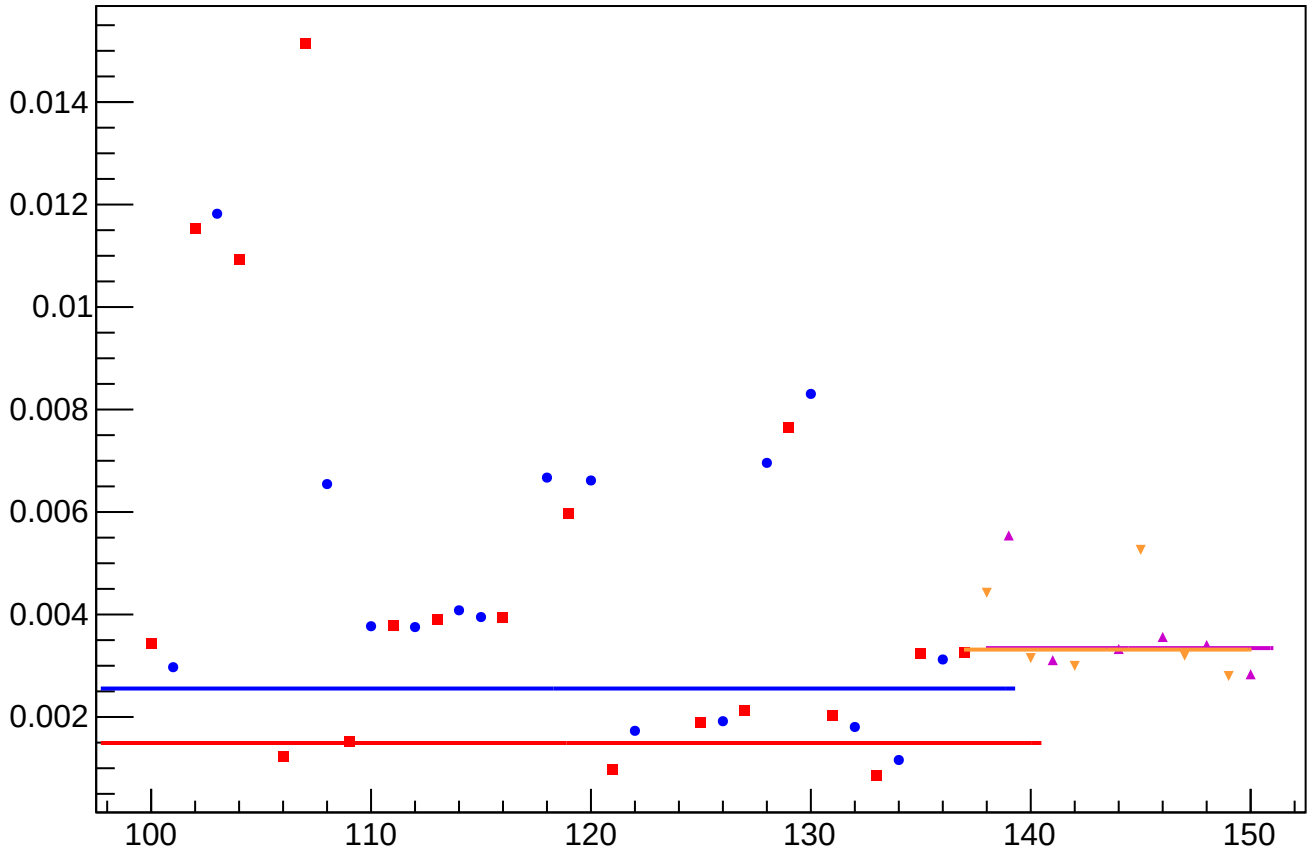
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.9/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:21.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 54.2/45




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3782362.0/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:368641.3/5

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5561830.1/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:339802.3/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 708792.7/11

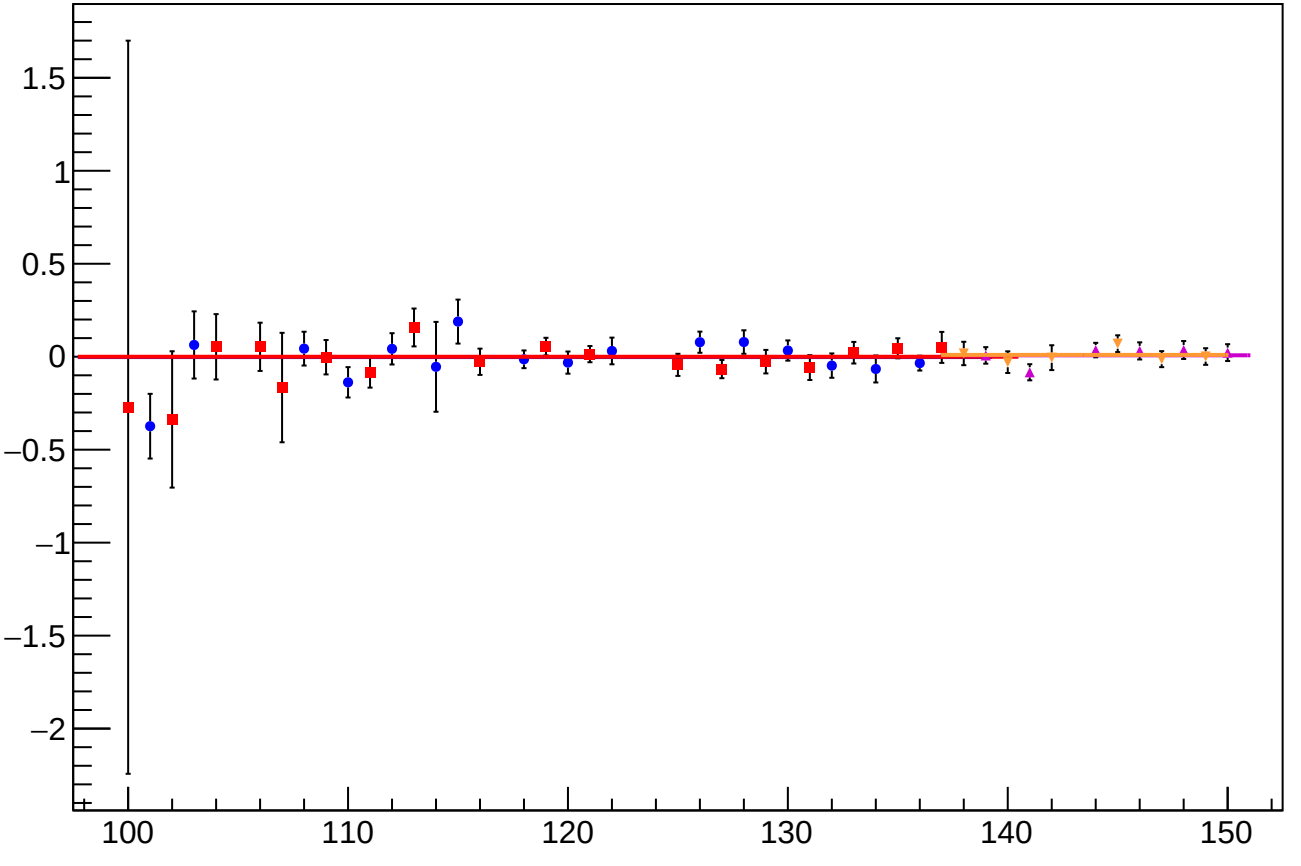
Right: 0.002+/-0.000 $\chi^2$/NDF: 10553457.3/33

In: 0.003+/-0.000 $\chi^2$/NDF:4473167.3/21

Out: 0.002+/-0.000 $\chi^2$/NDF:8034835.3/23

All: 0.002+/-0.000 $\chi^2$/NDF: 14144116.5/45

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:2.6/5

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.018 $\chi^2$/NDF:5.7/5

Left: 0.009+/-0.014 $\chi^2$/NDF: 8.3/11

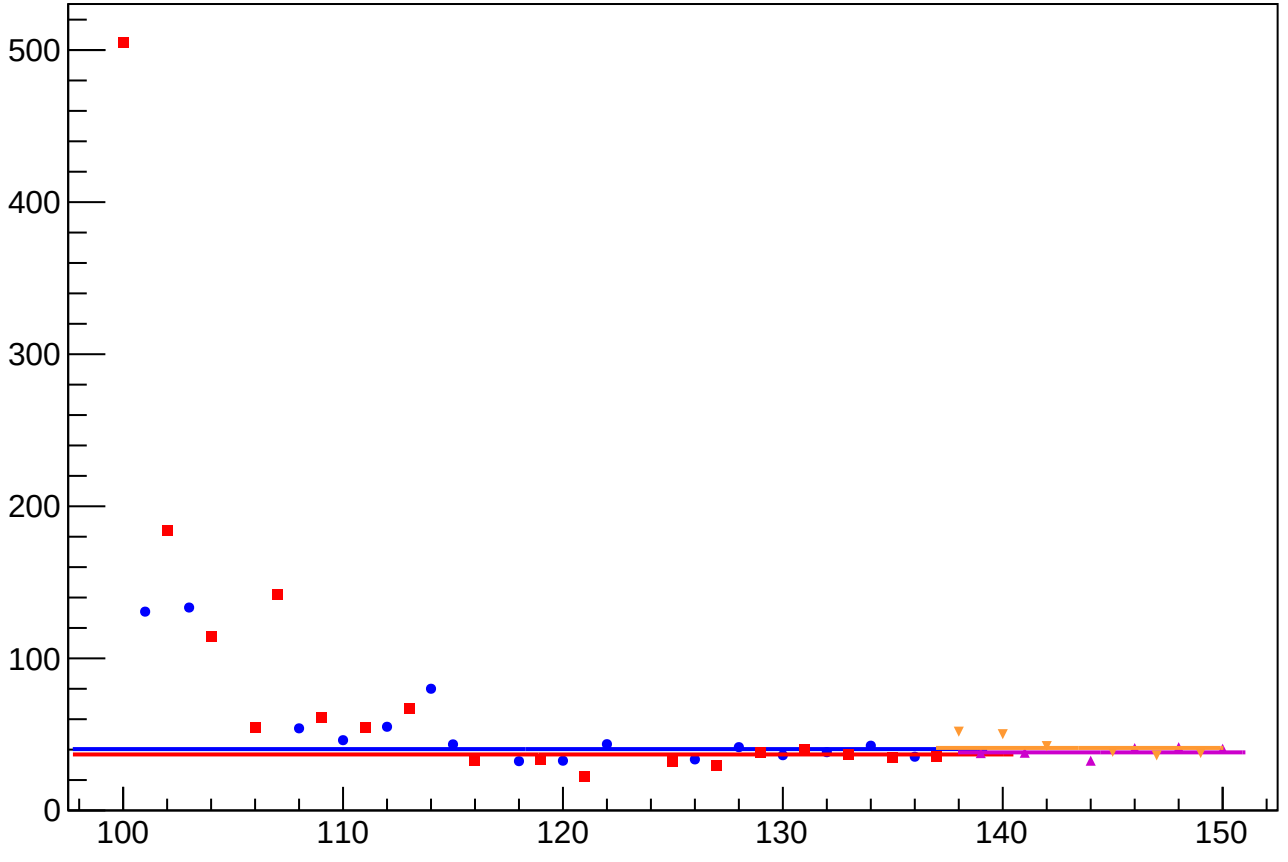
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.003+/-0.012 $\chi^2$/NDF:22.9/21

Out: 0.004+/-0.013 $\chi^2$/NDF:13.7/23

All: 0.003+/-0.009 $\chi^2$/NDF: 36.6/45

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410036.7/15

Left Out: 41.114+/-0.015 $\chi^2$/NDF:150451.4/5

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 38.194+/-0.013 $\chi^2$/NDF:62841.3/5

Left: 39.442+/-0.010 $\chi^2$/NDF: 235781.1/11

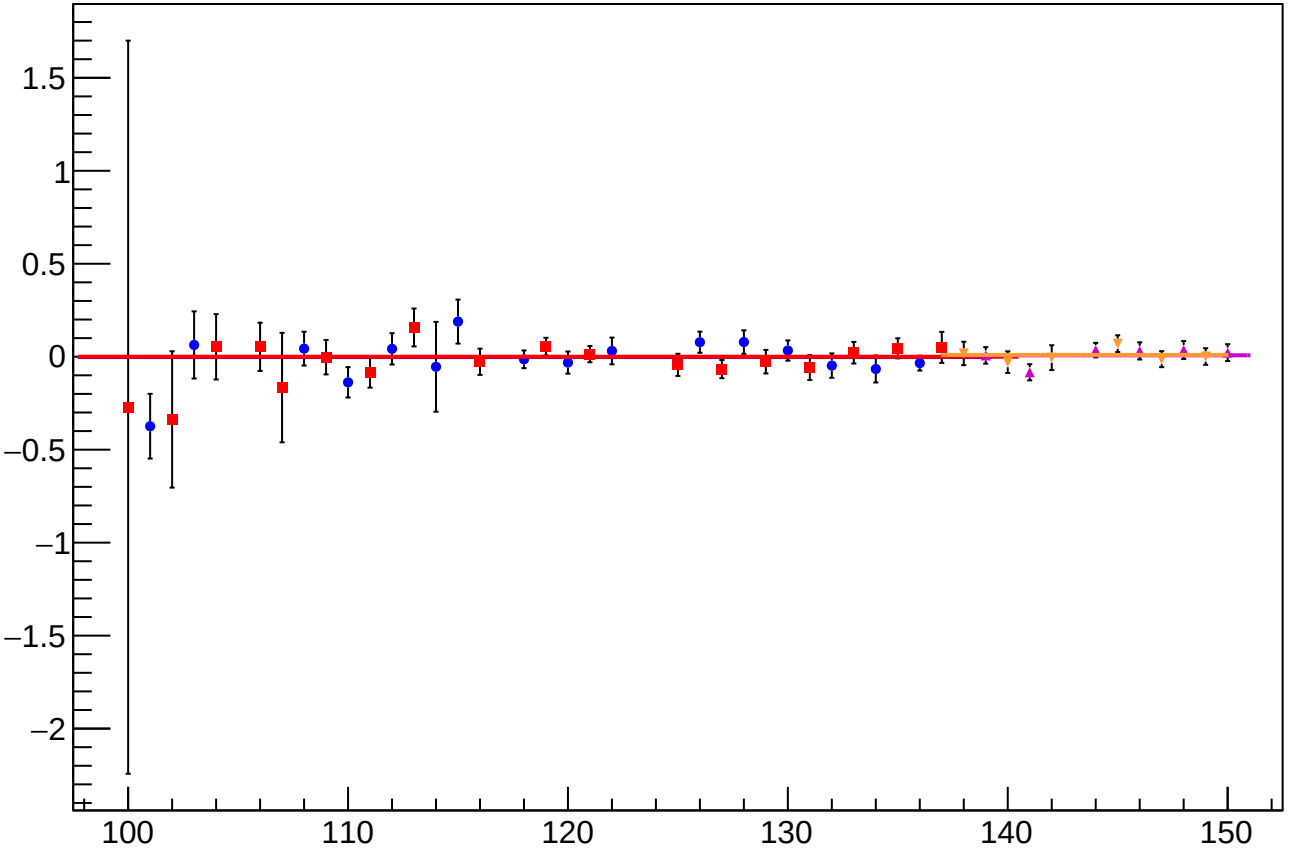
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 39.330+/-0.009 $\chi^2$/NDF:1488004.6/21

Out: 38.497+/-0.009 $\chi^2$/NDF:2039267.8/23

All: 38.934+/-0.006 $\chi^2$/NDF: 3531563.7/45

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:2.6/5

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.018 $\chi^2$/NDF:5.7/5

Left: 0.009+/-0.014 $\chi^2$/NDF: 8.3/11

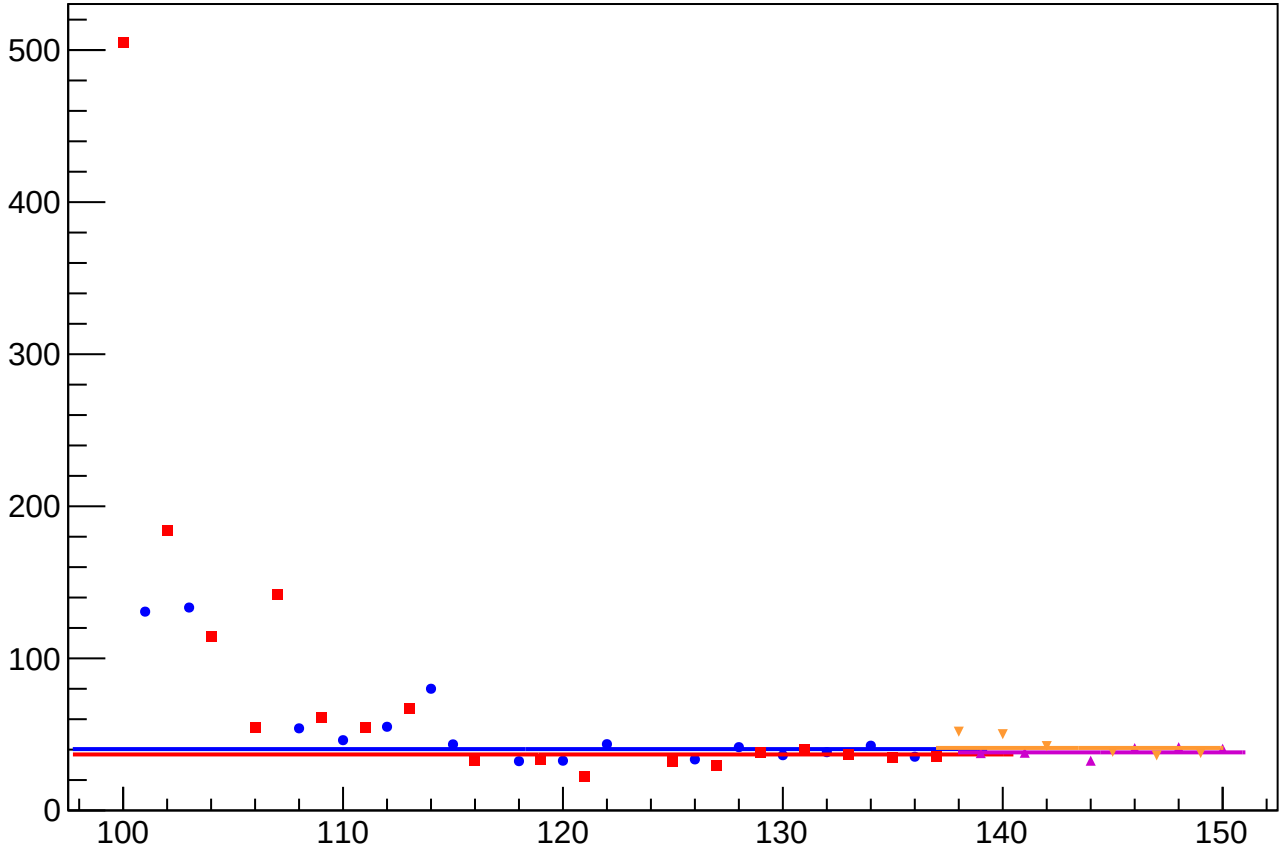
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.003+/-0.012 $\chi^2$/NDF:22.9/21

Out: 0.004+/-0.013 $\chi^2$/NDF:13.7/23

All: 0.003+/-0.009 $\chi^2$/NDF: 36.6/45

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410036.7/15

Left Out: 41.114+/-0.015 $\chi^2$/NDF:150451.4/5

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 38.194+/-0.013 $\chi^2$/NDF:62841.3/5

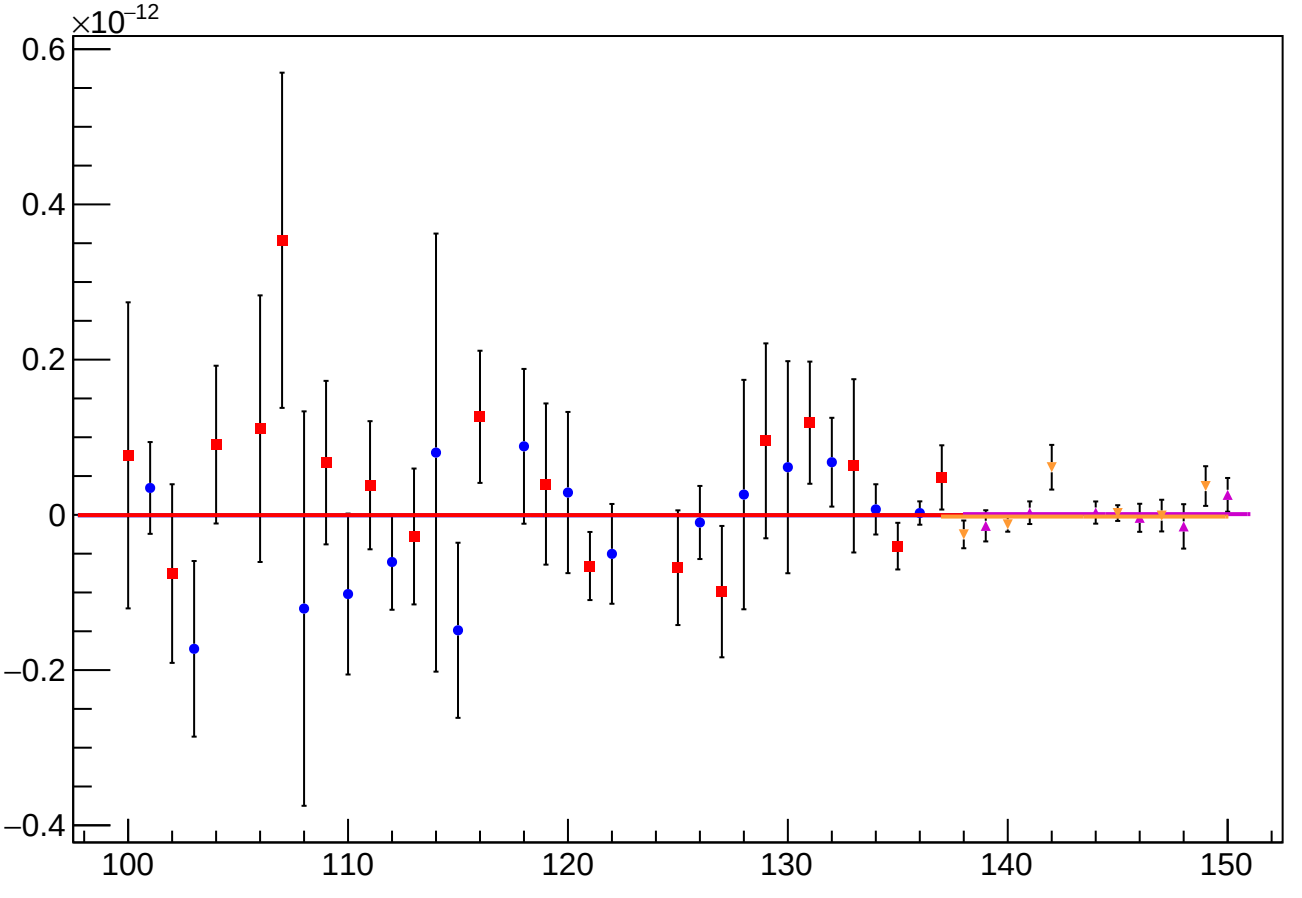
Left: 39.442+/-0.010 $\chi^2$/NDF: 235781.1/11

Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 39.330+/-0.009 $\chi^2$/NDF:1488004.6/21

Out: 38.497+/-0.009 $\chi^2$/NDF:2039267.8/23

All: 38.934+/-0.006 $\chi^2$/NDF: 3531563.7/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.2/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.3/5

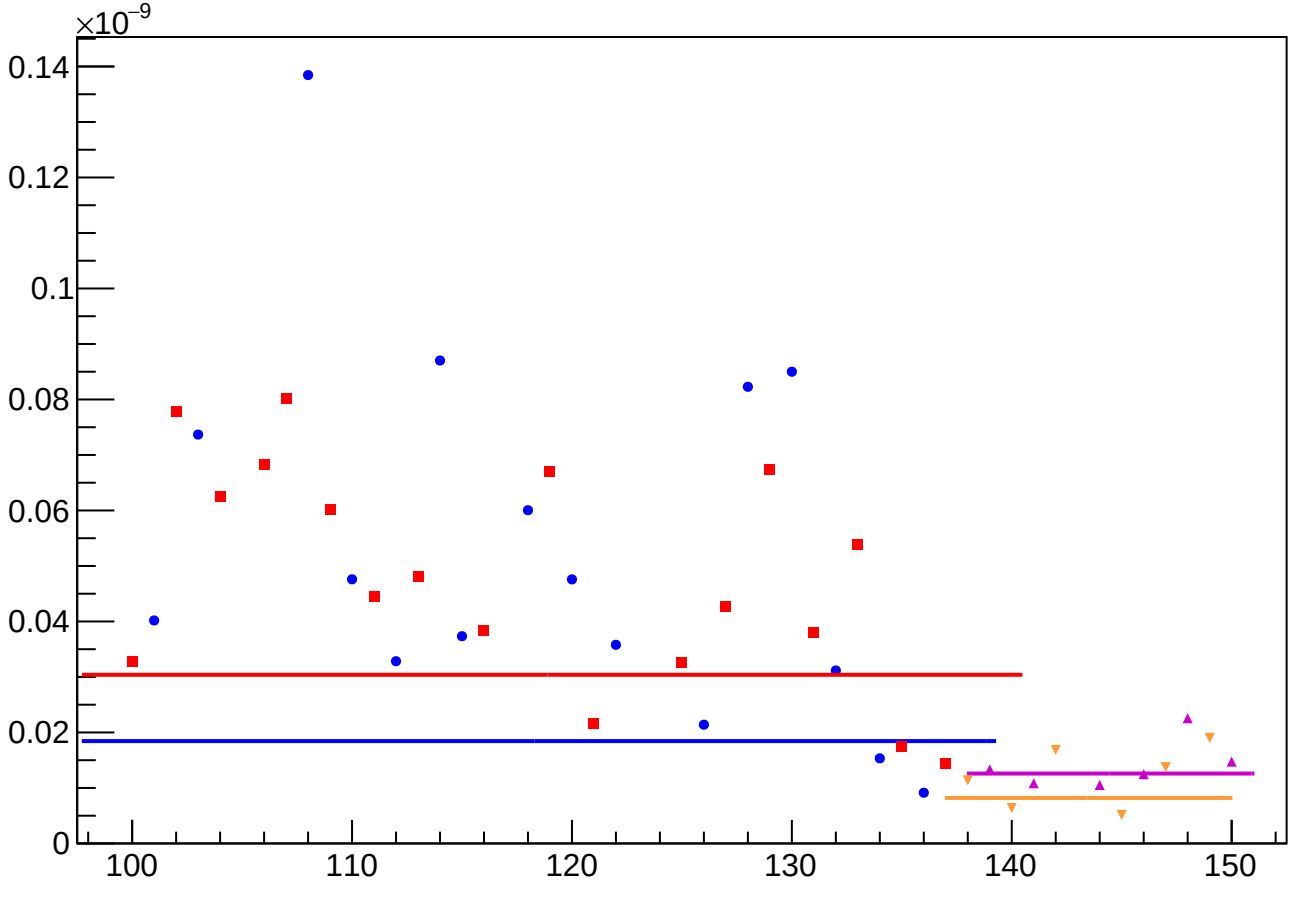
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.6/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:12.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:28.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.8/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4022915.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1005574.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2387224.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:335464.6/5

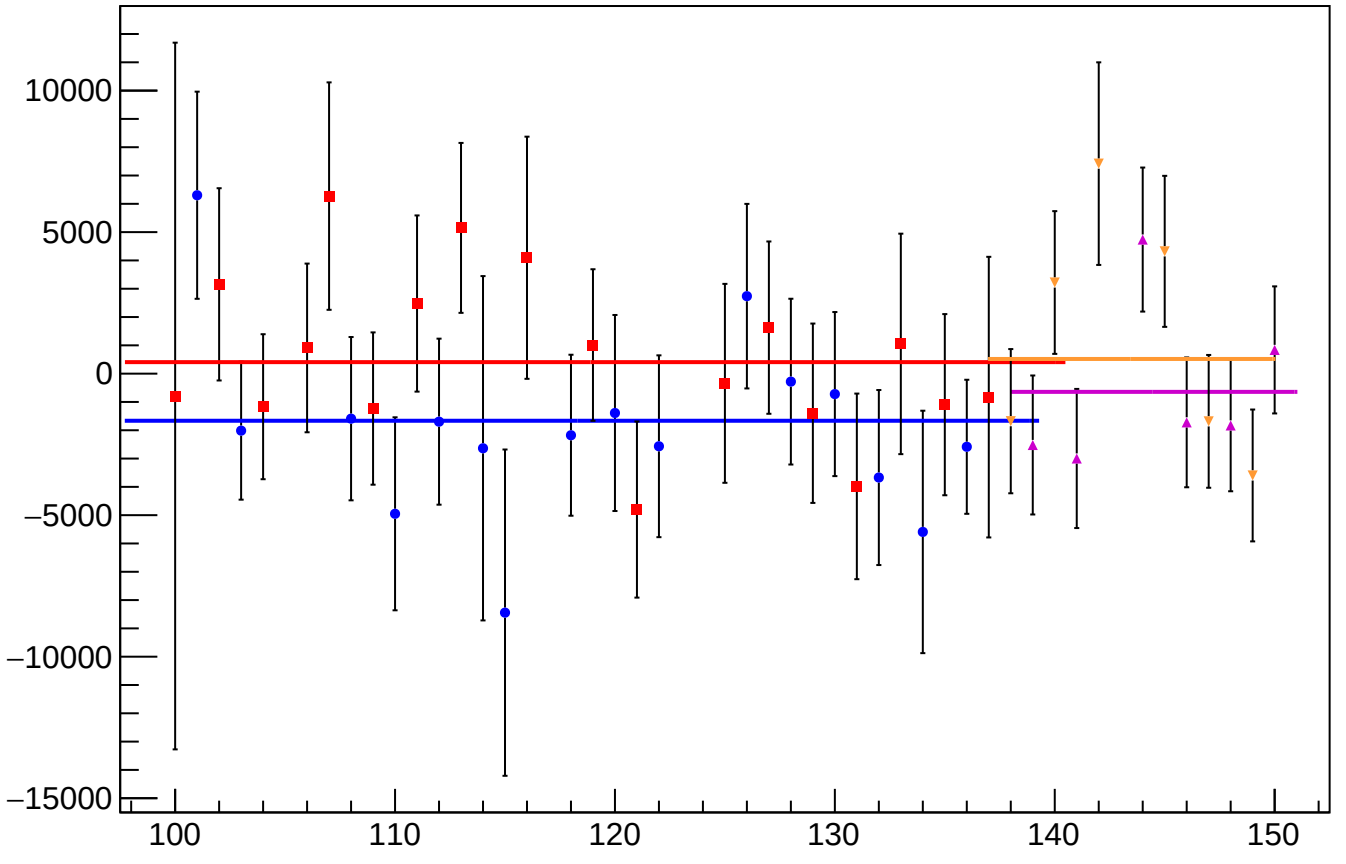
Left: 0.000+/-0.000 $\chi^2$/NDF: 1777776.1/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 7115915.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:4722697.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6619014.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11715276.1/45




Right In: -1664.305+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 518.807+/-1056.482 $\chi^2$/NDF:11.6/5

Right Out: 406.847+/-777.158 $\chi^2$/NDF: 12.7/17

Left In: -643.561+/-971.543 $\chi^2$/NDF:6.9/5

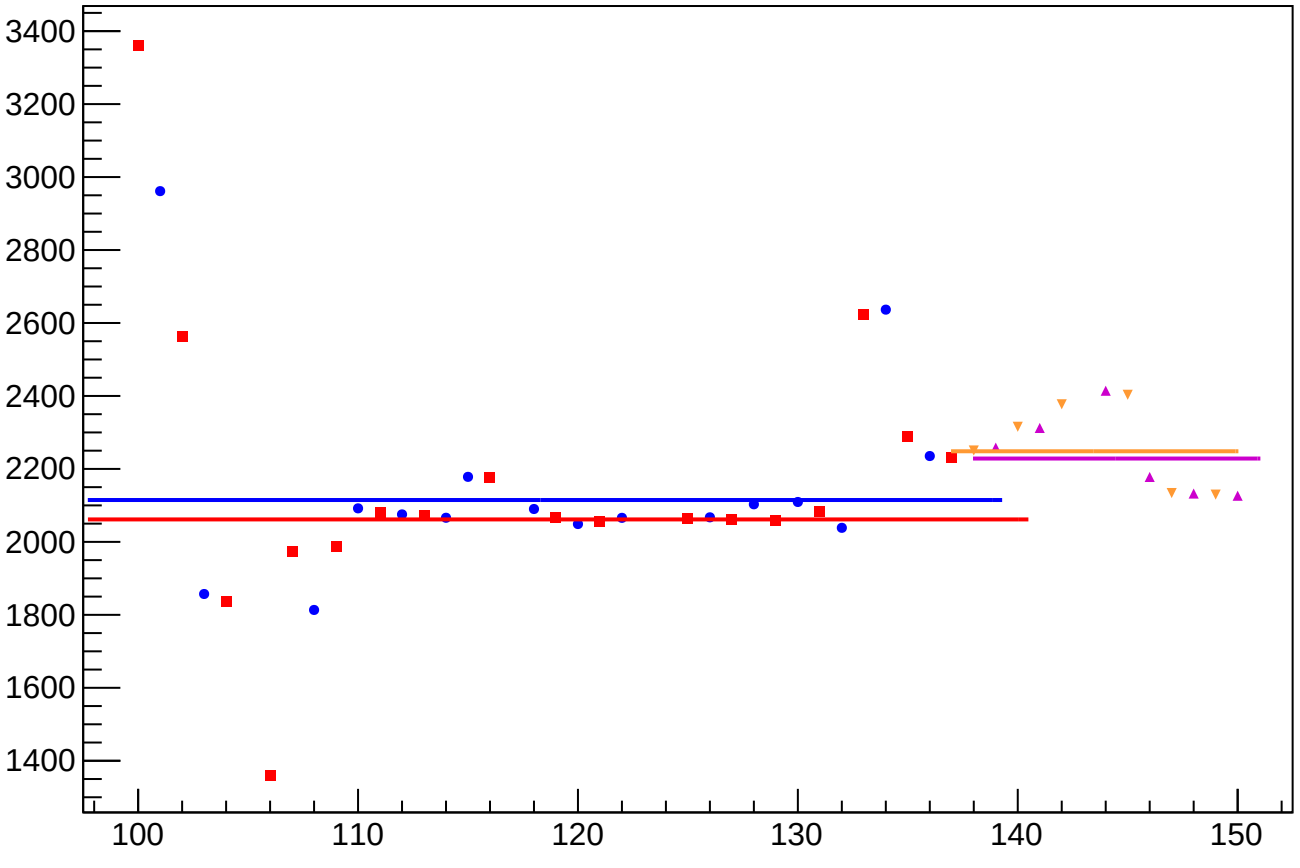
Left: -110.974+/-715.130 $\chi^2$/NDF: 19.2/11

Right: -608.927+/-554.763 $\chi^2$/NDF: 27.0/33

In: -1256.686+/-613.947 $\chi^2$/NDF:18.3/21

Out: 446.158+/-626.024 $\chi^2$/NDF:24.4/23

All: -421.847+/-438.334 $\chi^2$/NDF: 46.5/45




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.6/15

Left Out: 2248.368+/-0.747 $\chi^2$/NDF:20712.7/5

Right Out: 2061.560+/-0.550 $\chi^2$/NDF: 249186.6/17

Left In: 2228.440+/-0.687 $\chi^2$/NDF:21797.6/5

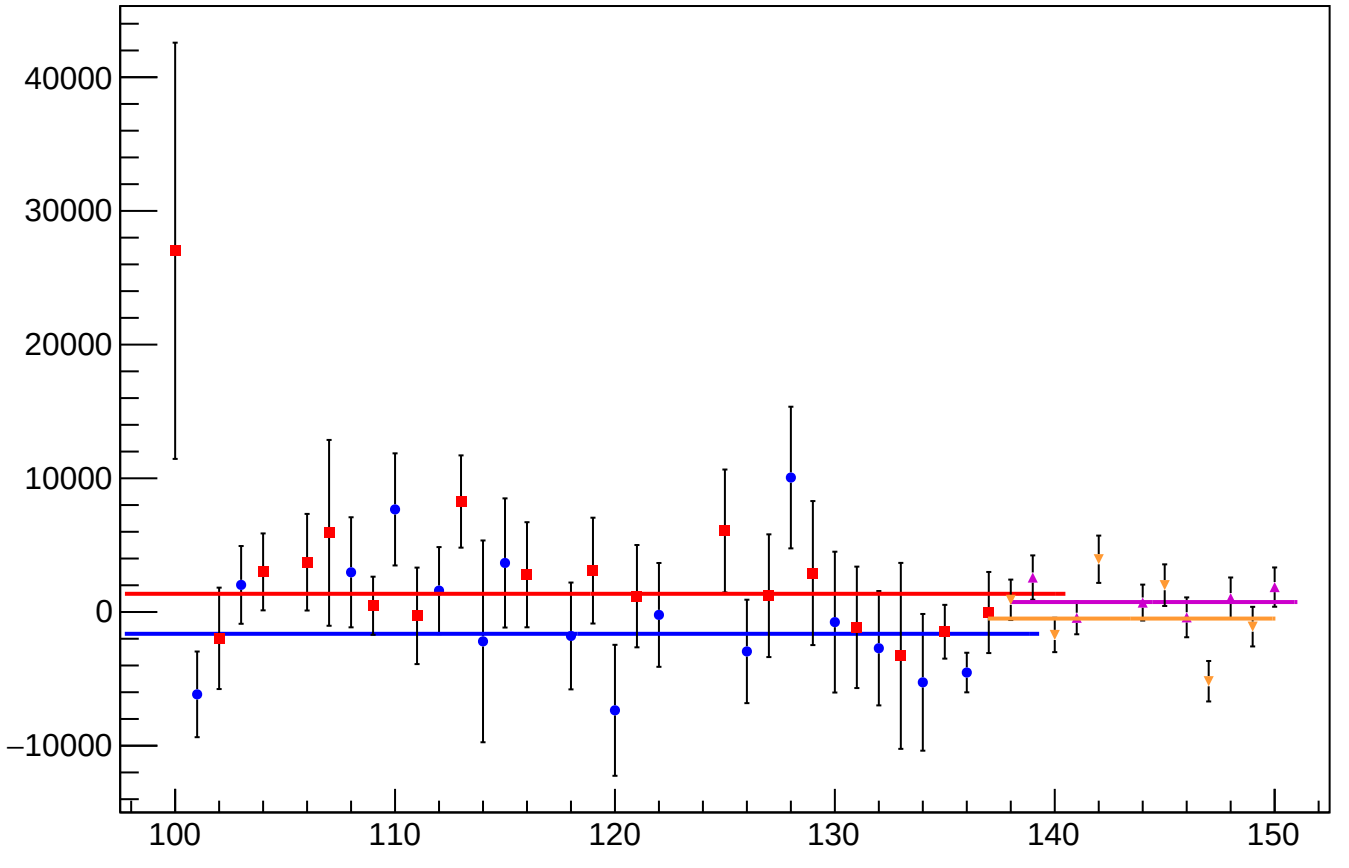
Left: 2237.571+/-0.506 $\chi^2$/NDF: 42895.9/11

Right: 2087.649+/-0.392 $\chi^2$/NDF: 443702.7/33

In: 2160.153+/-0.434 $\chi^2$/NDF:228167.3/21

Out: 2127.152+/-0.443 $\chi^2$/NDF:310474.7/23

All: 2143.974+/-0.310 $\chi^2$/NDF: 541475.1/45




Right In: -1630.474+/-862.417 $\chi^2$/NDF: 22.9/15

Left Out: -491.018+/-612.317 $\chi^2$/NDF:20.4/5

Right Out: 1361.841+/-840.417 $\chi^2$/NDF: 13.5/17

Left In: 744.890+/-586.217 $\chi^2$/NDF:3.3/5

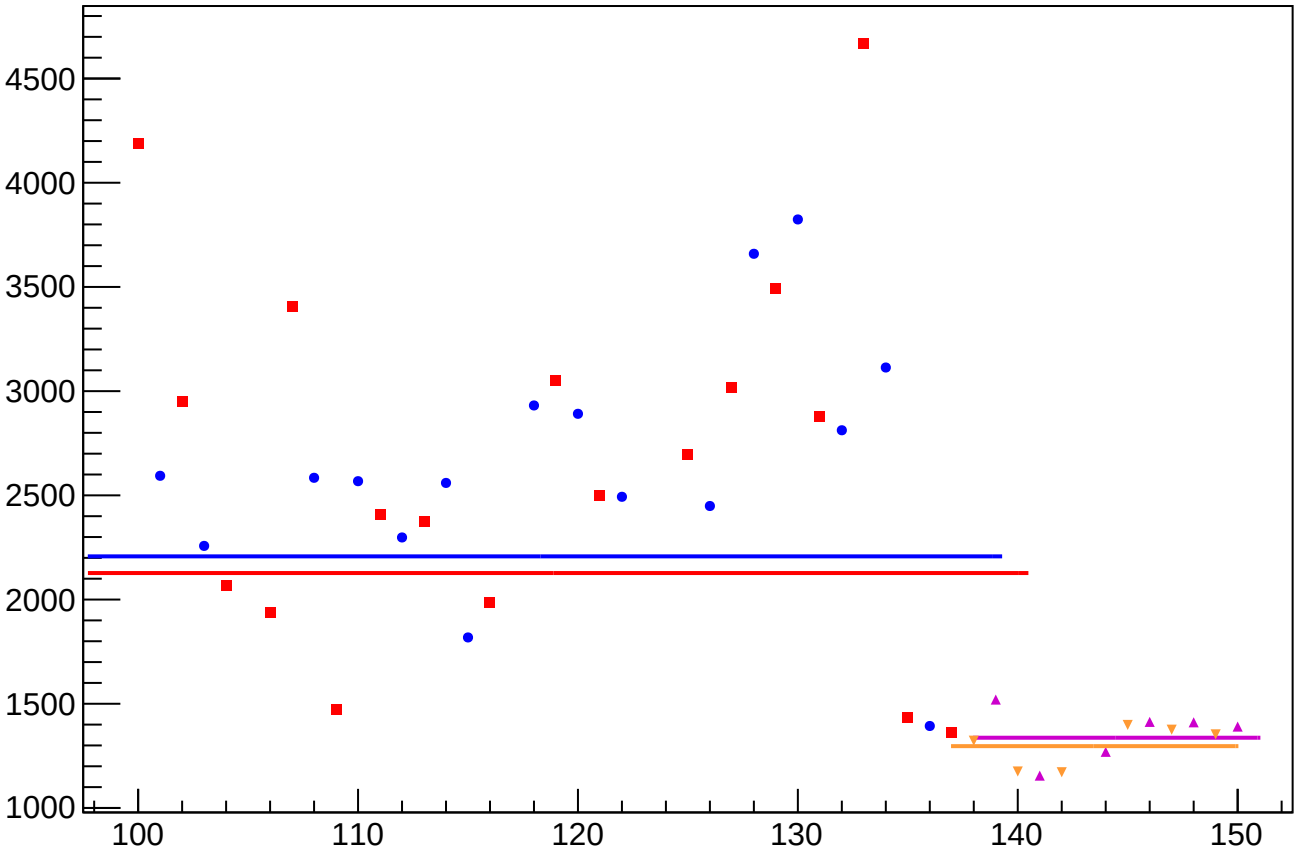
Left: 153.836+/-423.445 $\chi^2$/NDF: 25.9/11

Right: -95.664+/-601.892 $\chi^2$/NDF: 42.5/33

In: -5.787+/-484.818 $\chi^2$/NDF:31.4/21

Out: 151.485+/-494.893 $\chi^2$/NDF:37.0/23

All: 71.232+/-346.325 $\chi^2$/NDF: 68.5/45




Right In: 2207.254+/-0.610 $\chi^2$/NDF: 1249266.5/15

Left Out: 1296.607+/-0.433 $\chi^2$/NDF:45427.7/5

Right Out: 2127.224+/-0.594 $\chi^2$/NDF: 1458046.9/17

Left In: 1337.009+/-0.415 $\chi^2$/NDF:85442.9/5

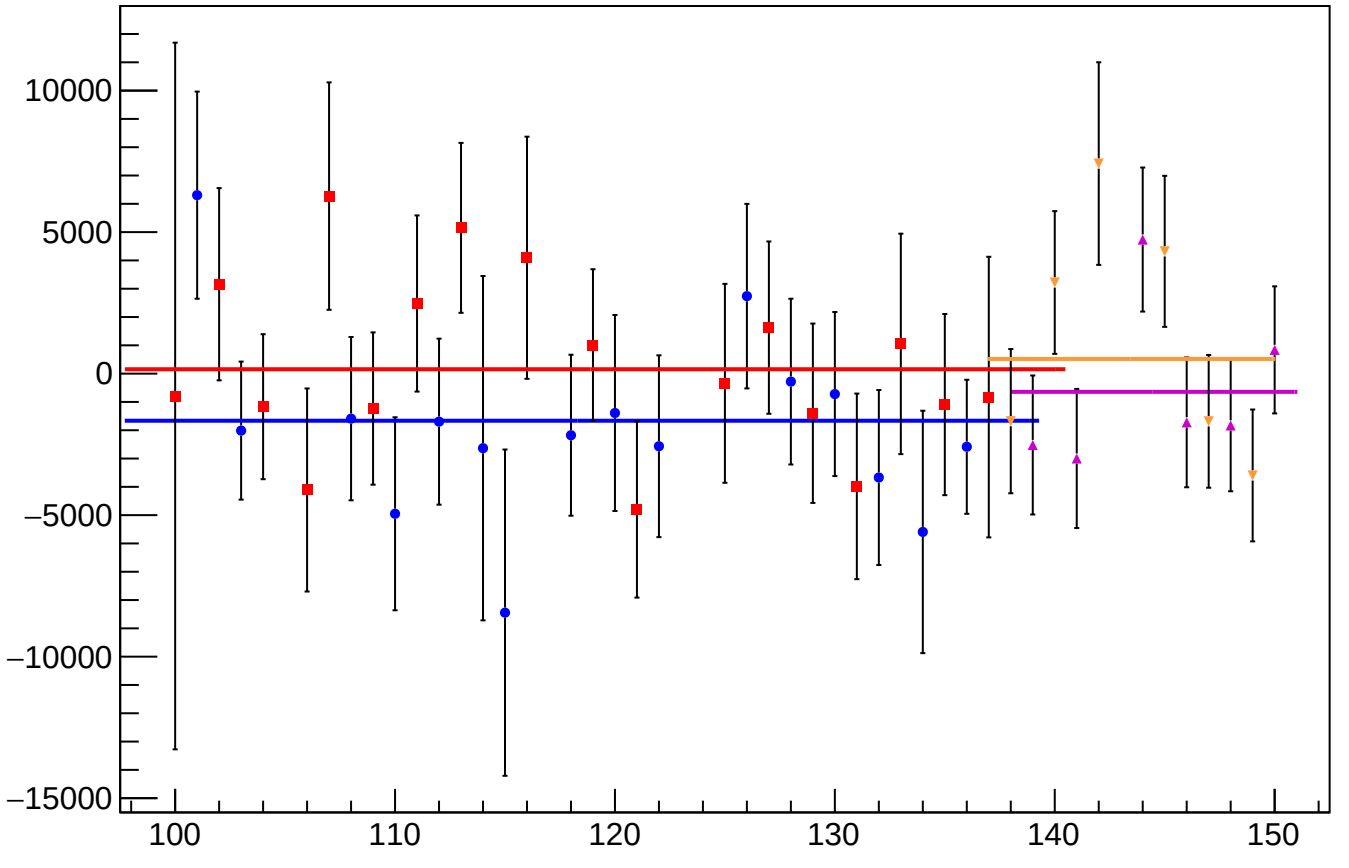
Left: 1317.688+/-0.299 $\chi^2$/NDF: 135413.7/11

Right: 2166.205+/-0.426 $\chi^2$/NDF: 2716147.2/33

In: 1612.029+/-0.343 $\chi^2$/NDF:2727602.6/21

Out: 1584.635+/-0.350 $\chi^2$/NDF:2779654.7/23

All: 1598.614+/-0.245 $\chi^2$/NDF: 5510384.3/45




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 518.931+/-1056.482 $\chi^2$/NDF:11.6/5

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -643.666+/-971.543 $\chi^2$/NDF:6.9/5

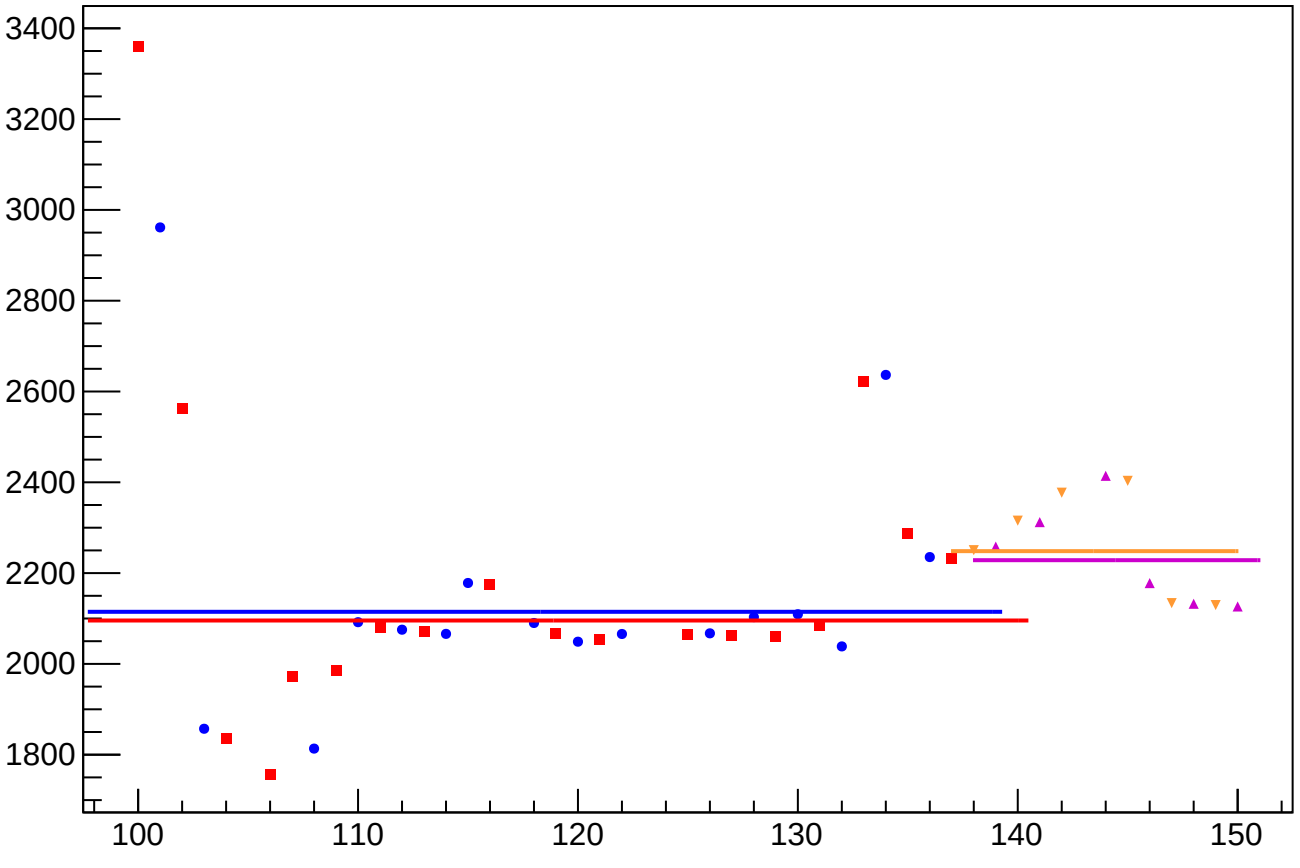
Left: -110.975+/-715.130 $\chi^2$/NDF: 19.2/11

Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -1256.683+/-613.947 $\chi^2$/NDF:18.3/21

Out: 285.055+/-630.350 $\chi^2$/NDF:25.9/23

All: -506.134+/-439.811 $\chi^2$/NDF: 47.3/45




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.9/15

Left Out: 2248.368+/-0.747 $\chi^2$/NDF:20712.7/5

Right Out: 2095.597+/-0.555 $\chi^2$/NDF: 149360.5/17

Left In: 2228.440+/-0.687 $\chi^2$/NDF:21797.6/5

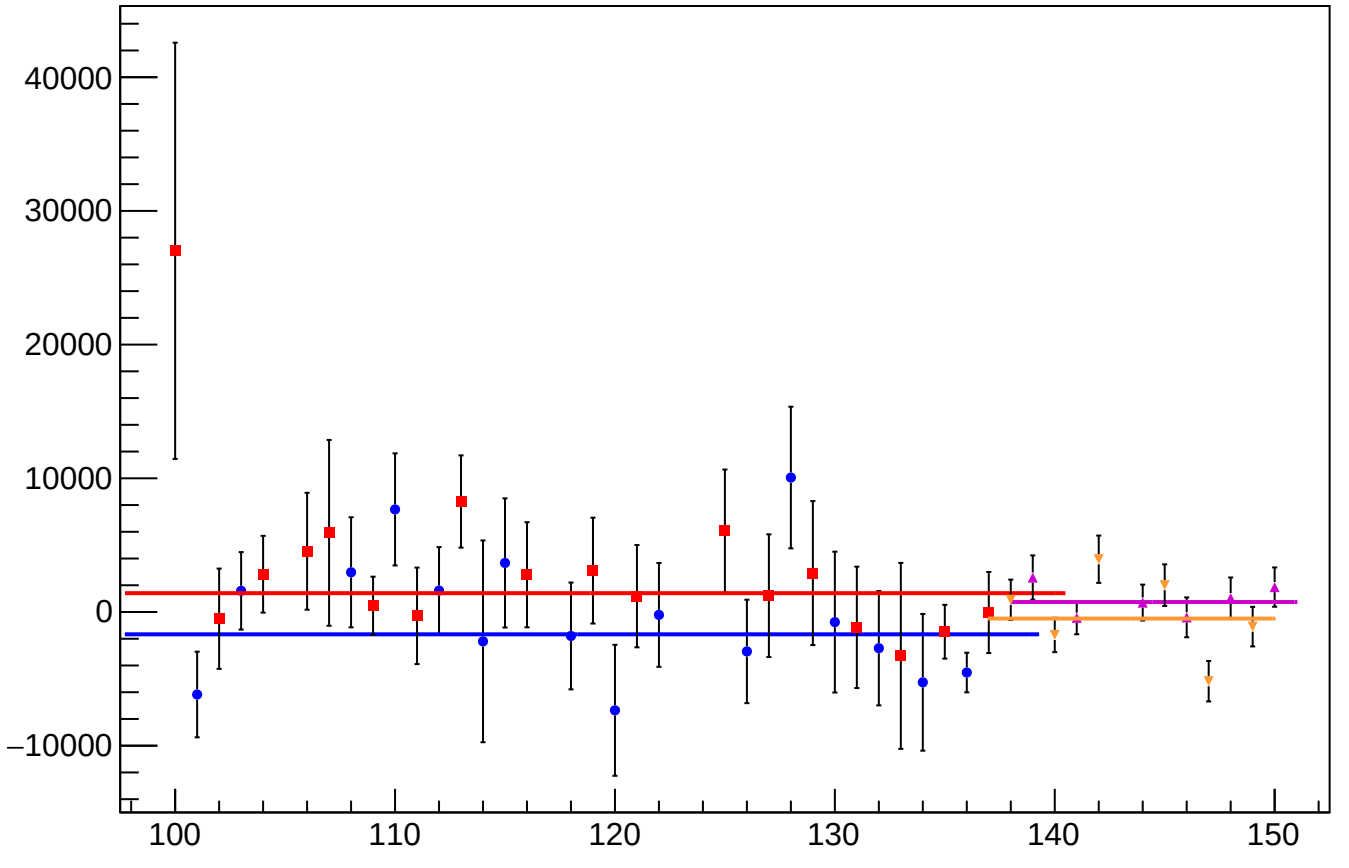
Left: 2237.571+/-0.506 $\chi^2$/NDF: 42895.9/11

Right: 2105.095+/-0.394 $\chi^2$/NDF: 339871.2/33

In: 2160.153+/-0.434 $\chi^2$/NDF:228167.7/21

Out: 2149.982+/-0.446 $\chi^2$/NDF:197006.1/23

All: 2155.202+/-0.311 $\chi^2$/NDF: 425441.0/45




Right In: -1668.482+/-862.126 $\chi^2$/NDF: 22.5/15

Left Out: -491.107+/-612.326 $\chi^2$/NDF:20.4/5

Right Out: 1407.975+/-847.068 $\chi^2$/NDF: 13.0/17

Left In: 744.884+/-586.216 $\chi^2$/NDF:3.3/5

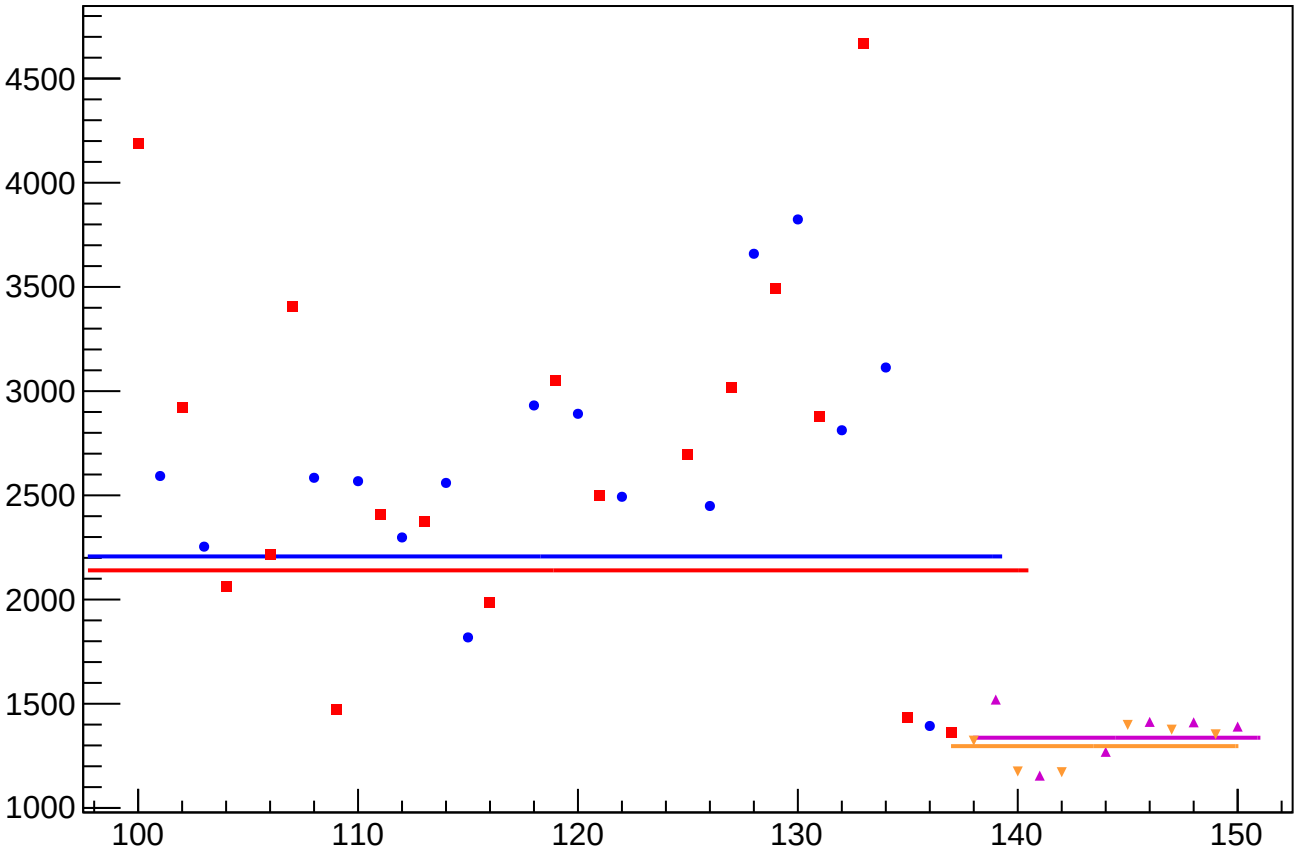
Left: 153.801+/-423.447 $\chi^2$/NDF: 25.9/11

Right: -103.153+/-604.221 $\chi^2$/NDF: 42.0/33

In: -18.152+/-484.765 $\chi^2$/NDF:31.2/21

Out: 160.672+/-496.246 $\chi^2$/NDF:36.7/23

All: 69.167+/-346.768 $\chi^2$/NDF: 67.9/45




Right In: 2206.918+/-0.610 $\chi^2$/NDF: 1249024.4/15

Left Out: 1296.628+/-0.433 $\chi^2$/NDF:45409.6/5

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1337.004+/-0.415 $\chi^2$/NDF:85467.7/5

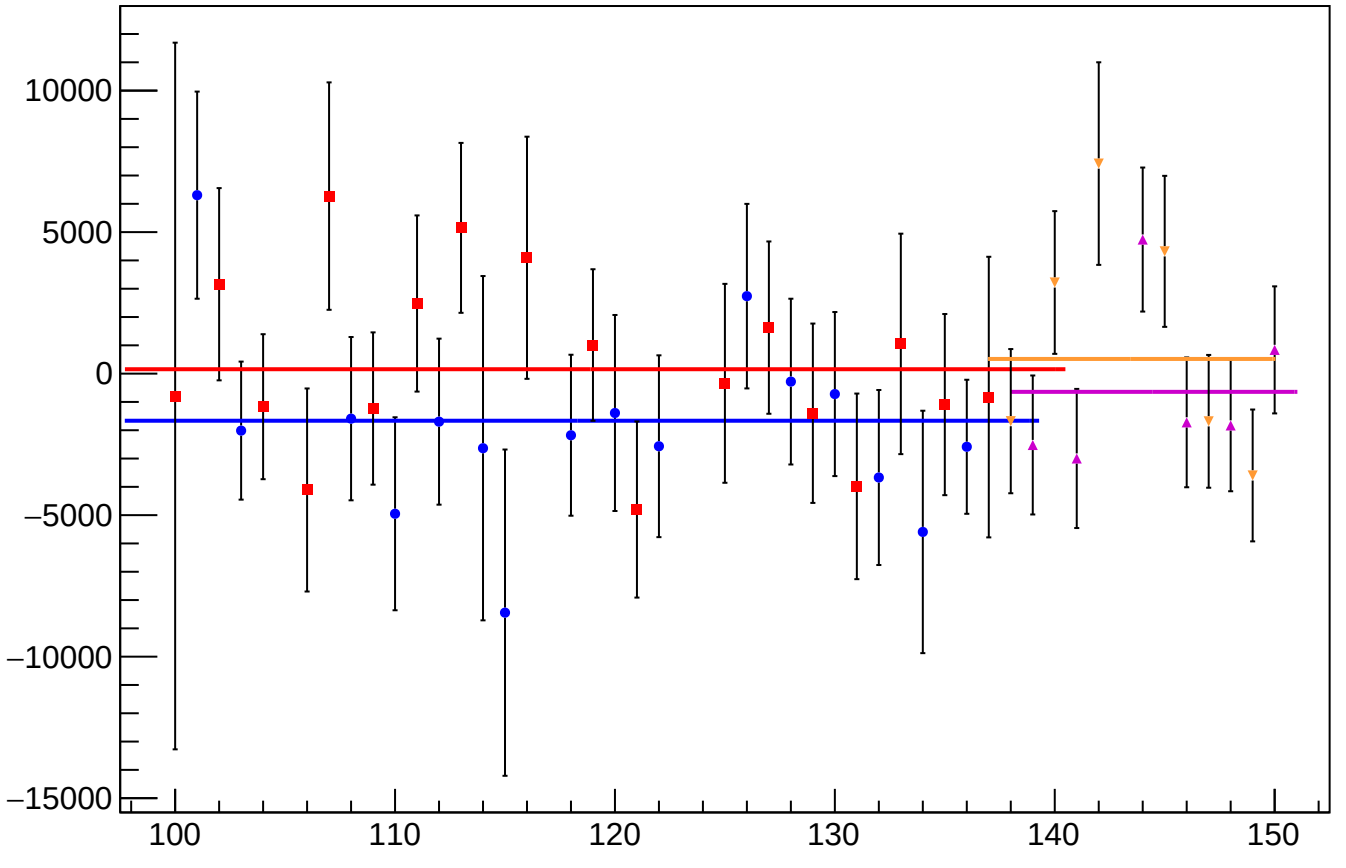
Left: 1317.695+/-0.299 $\chi^2$/NDF: 135414.5/11

Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1612.045+/-0.343 $\chi^2$/NDF:2726971.1/21

Out: 1586.100+/-0.351 $\chi^2$/NDF:2796105.8/23

All: 1599.376+/-0.245 $\chi^2$/NDF: 5525874.4/45




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 518.931+/-1056.482 $\chi^2$/NDF:11.6/5

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -643.666+/-971.543 $\chi^2$/NDF:6.9/5

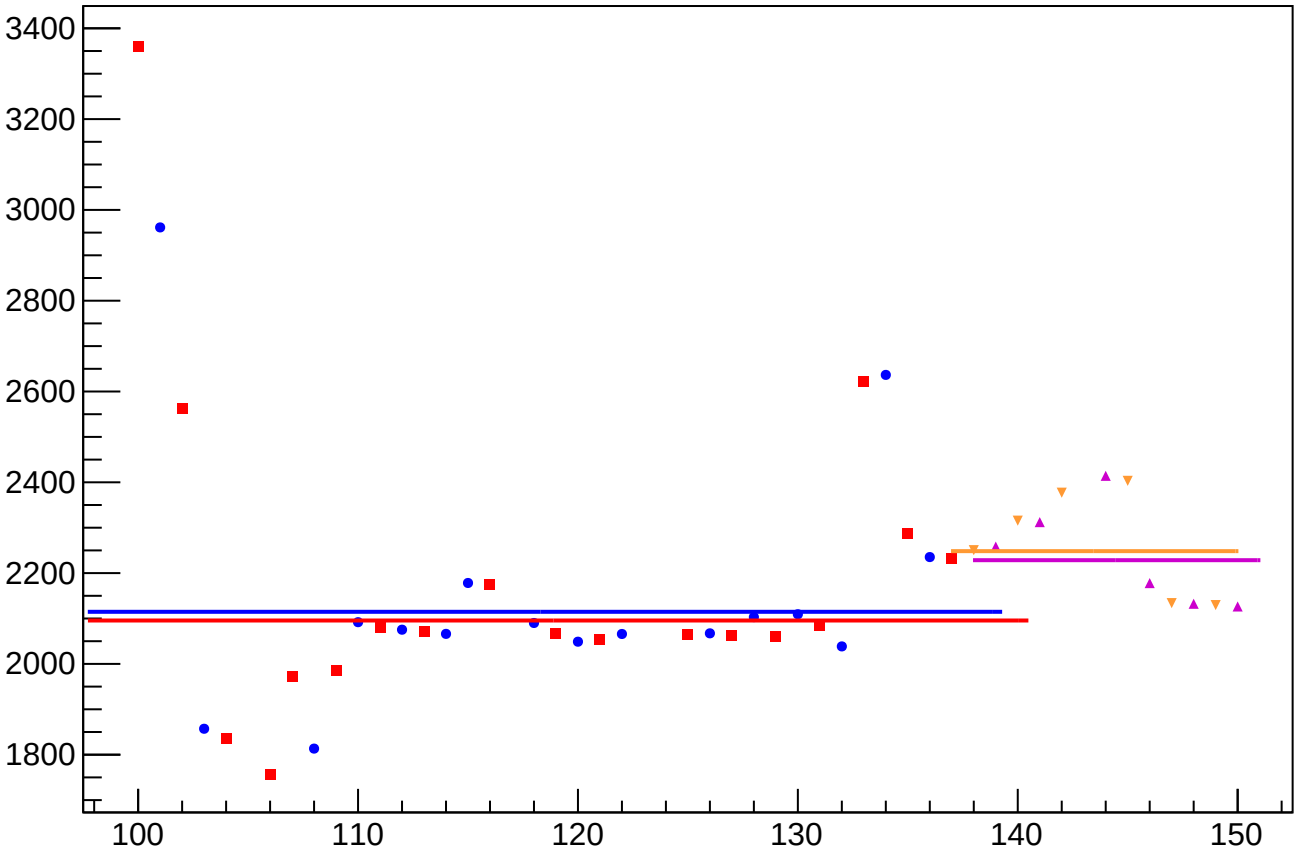
Left: -110.975+/-715.130 $\chi^2$/NDF: 19.2/11

Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -1256.683+/-613.947 $\chi^2$/NDF:18.3/21

Out: 285.055+/-630.350 $\chi^2$/NDF:25.9/23

All: -506.134+/-439.811 $\chi^2$/NDF: 47.3/45




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.9/15

Left Out: 2248.368+/-0.747 $\chi^2$/NDF:20712.7/5

Right Out: 2095.597+/-0.555 $\chi^2$/NDF: 149360.5/17

Left In: 2228.440+/-0.687 $\chi^2$/NDF:21797.6/5

Left: 2237.571+/-0.506 $\chi^2$/NDF: 42895.9/11

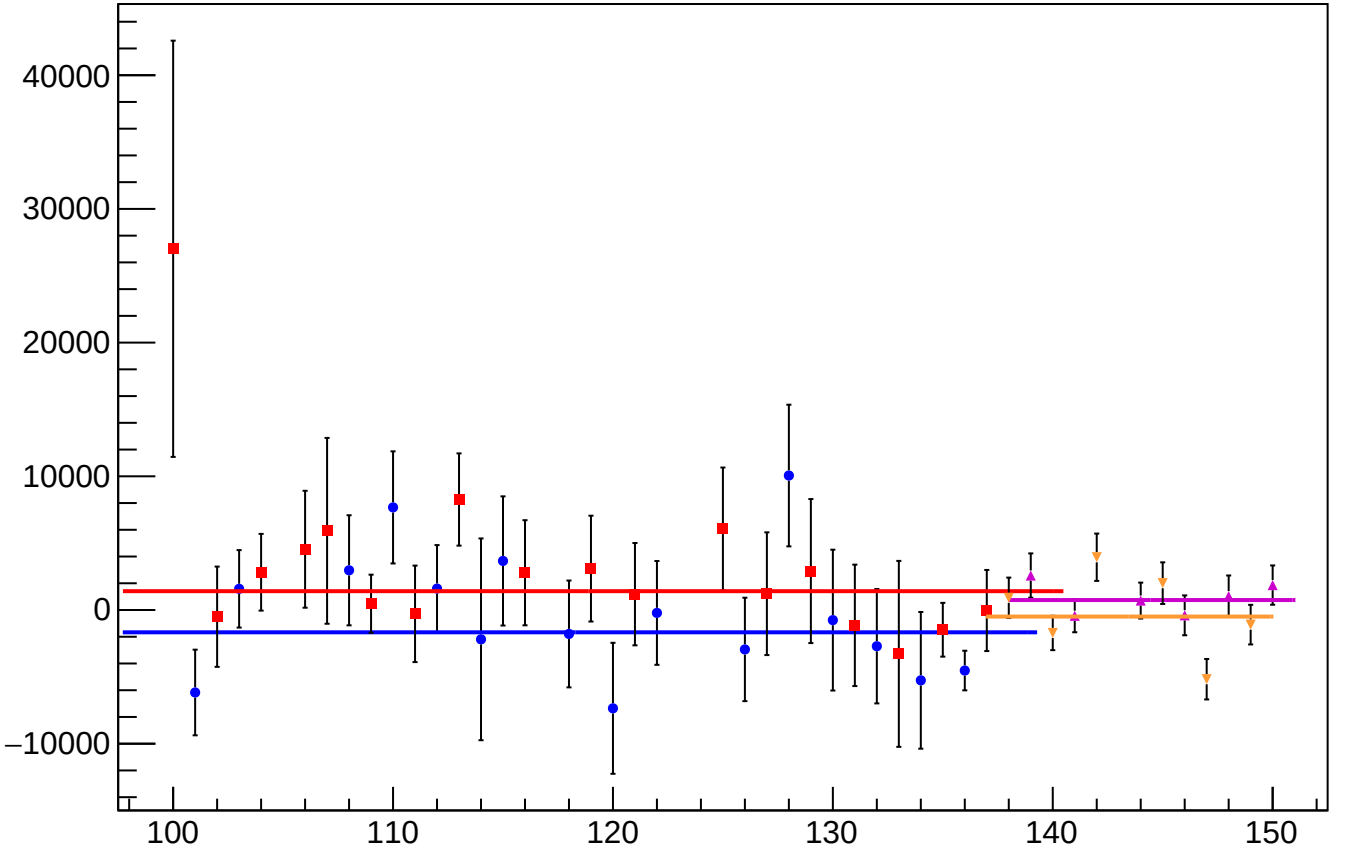
Right: 2105.095+/-0.394 $\chi^2$/NDF: 339871.2/33

In: 2160.153+/-0.434 $\chi^2$/NDF:228167.7/21

Out: 2149.982+/-0.446 $\chi^2$/NDF:197006.1/23

All: 2155.202+/-0.311 $\chi^2$/NDF: 425441.0/45

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1668.482+/-862.126 $\chi^2$/NDF: 22.5/15

Left Out: -491.107+/-612.326 $\chi^2$/NDF:20.4/5

Right Out: 1407.975+/-847.068 $\chi^2$/NDF: 13.0/17

Left In: 744.884+/-586.216 $\chi^2$/NDF:3.3/5

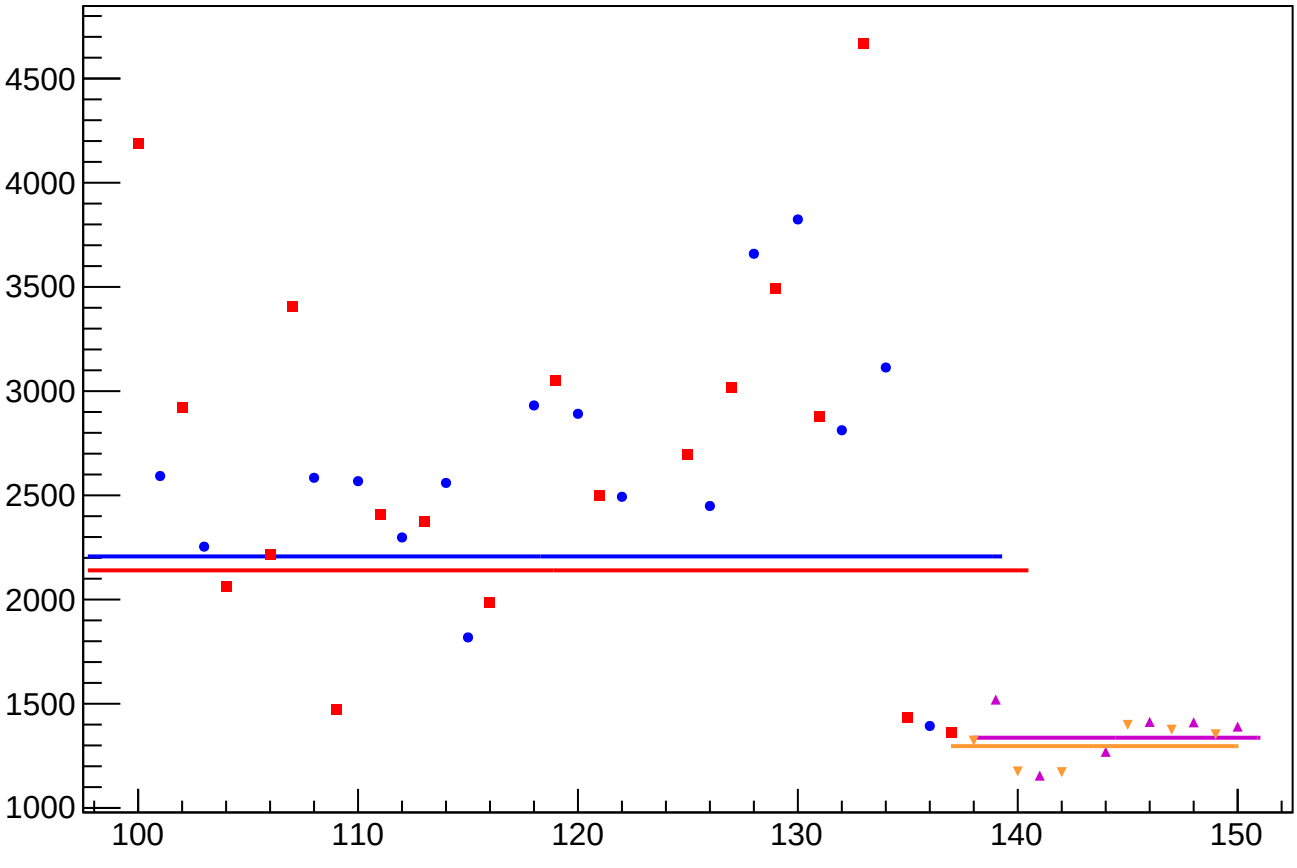
Left: 153.801+/-423.447 $\chi^2$/NDF: 25.9/11

Right: -103.153+/-604.221 $\chi^2$/NDF: 42.0/33

In: -18.152+/-484.765 $\chi^2$/NDF:31.2/21

Out: 160.672+/-496.246 $\chi^2$/NDF:36.7/23

All: 69.167+/-346.768 $\chi^2$/NDF: 67.9/45




Right In: 2206.918+/-0.610 $\chi^2$/NDF: 1249024.4/15

Left Out: 1296.628+/-0.433 $\chi^2$/NDF:45409.6/5

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1337.004+/-0.415 $\chi^2$/NDF:85467.7/5

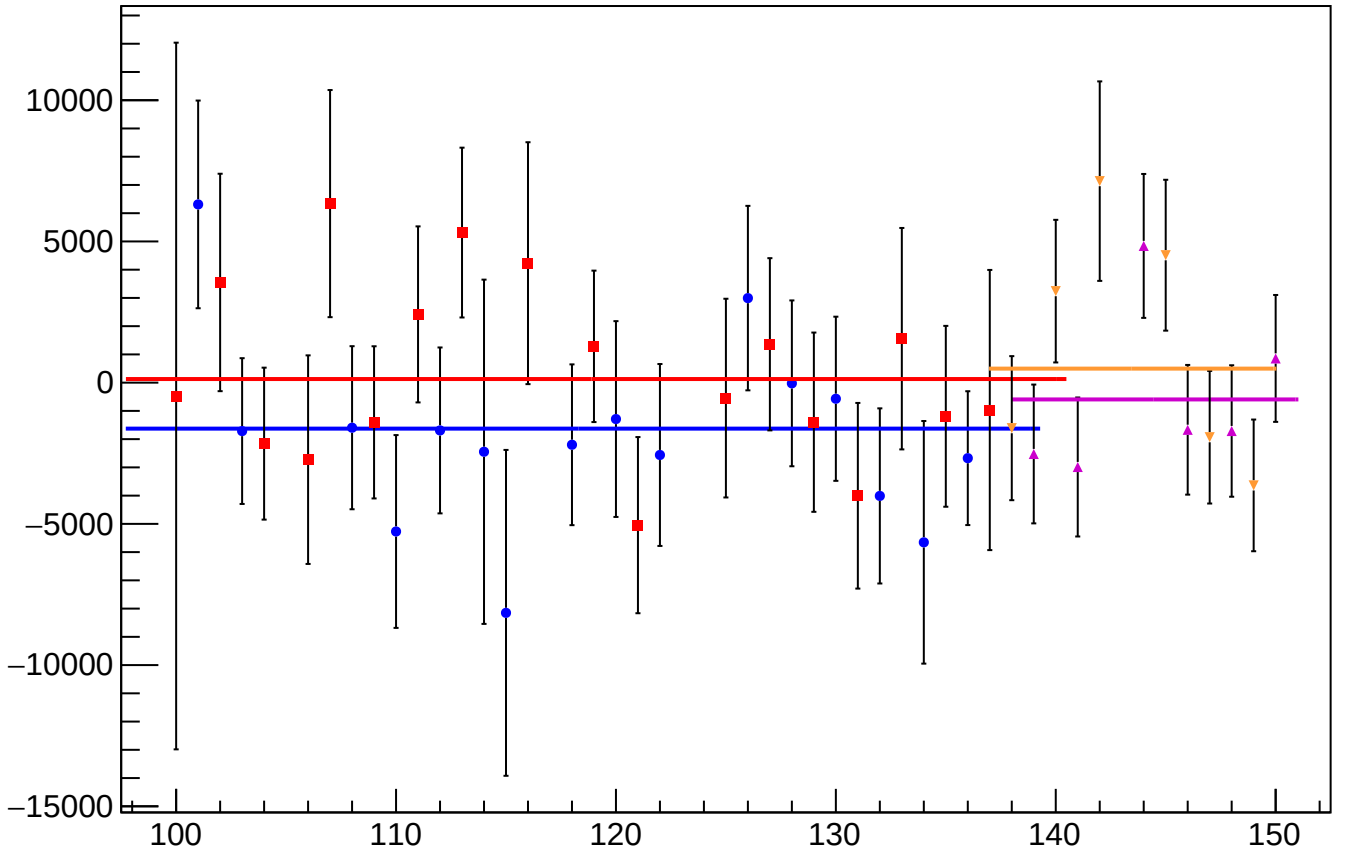
Left: 1317.695+/-0.299 $\chi^2$/NDF: 135414.5/11

Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1612.045+/-0.343 $\chi^2$/NDF:2726971.1/21

Out: 1586.100+/-0.351 $\chi^2$/NDF:2796105.8/23

All: 1599.376+/-0.245 $\chi^2$/NDF: 5525874.4/45




Right In: -1627.635+/-797.966 $\chi^2$/NDF: 11.3/15

Left Out: 497.047+/-1056.167 $\chi^2$/NDF:11.9/5

Right Out: 128.099+/-795.899 $\chi^2$/NDF: 14.6/17

Left In: -594.101+/-972.530 $\chi^2$/NDF:7.0/5

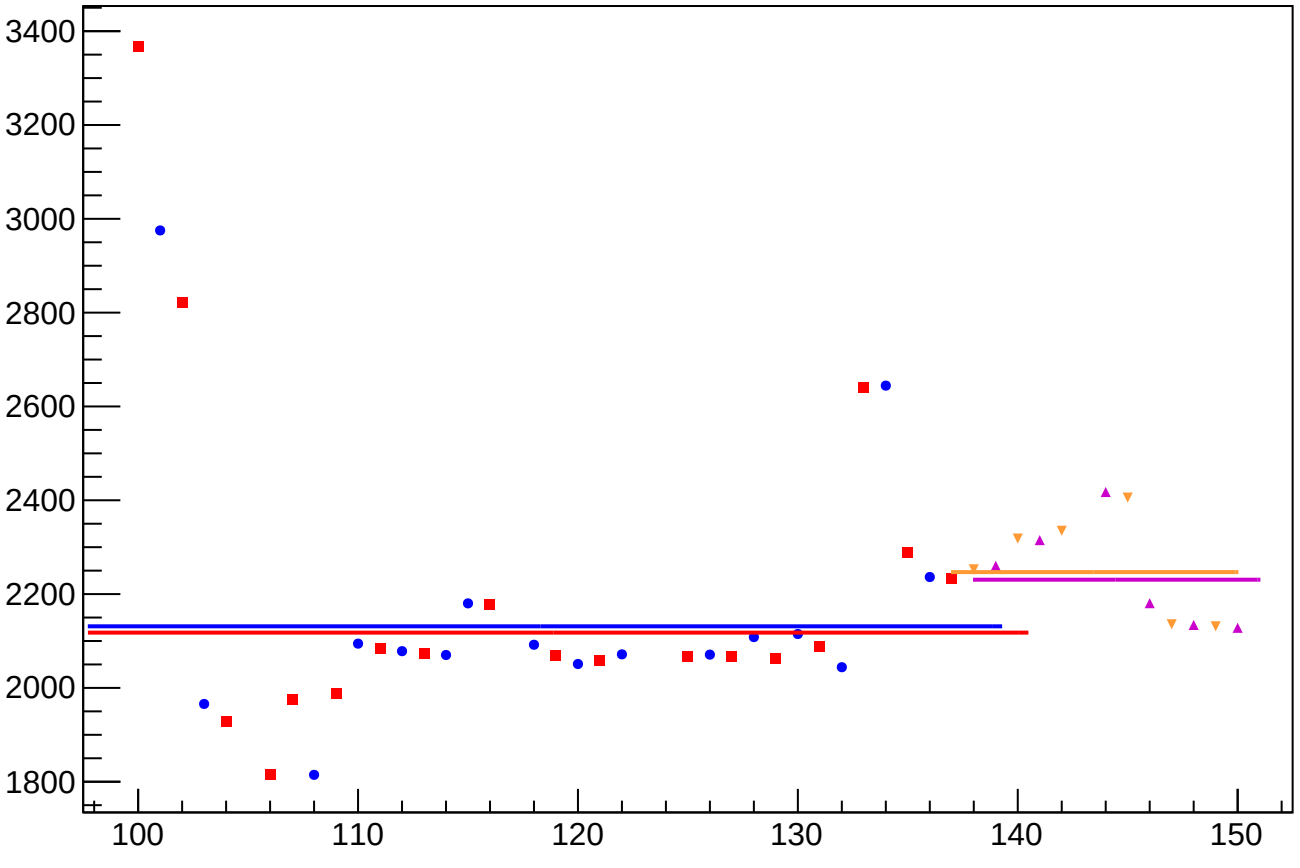
Left: -93.435+/-715.426 $\chi^2$/NDF: 19.4/11

Right: -747.490+/-563.515 $\chi^2$/NDF: 28.3/33

In: -1211.789+/-616.889 $\chi^2$/NDF:19.0/21

Out: 261.730+/-635.627 $\chi^2$/NDF:26.5/23

All: -497.070+/-442.683 $\chi^2$/NDF: 48.3/45




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2246.869+/-0.747 $\chi^2$/NDF:19349.4/5

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.7/17

Left In: 2230.678+/-0.688 $\chi^2$/NDF:21959.2/5

Left: 2238.107+/-0.506 $\chi^2$/NDF: 41562.9/11

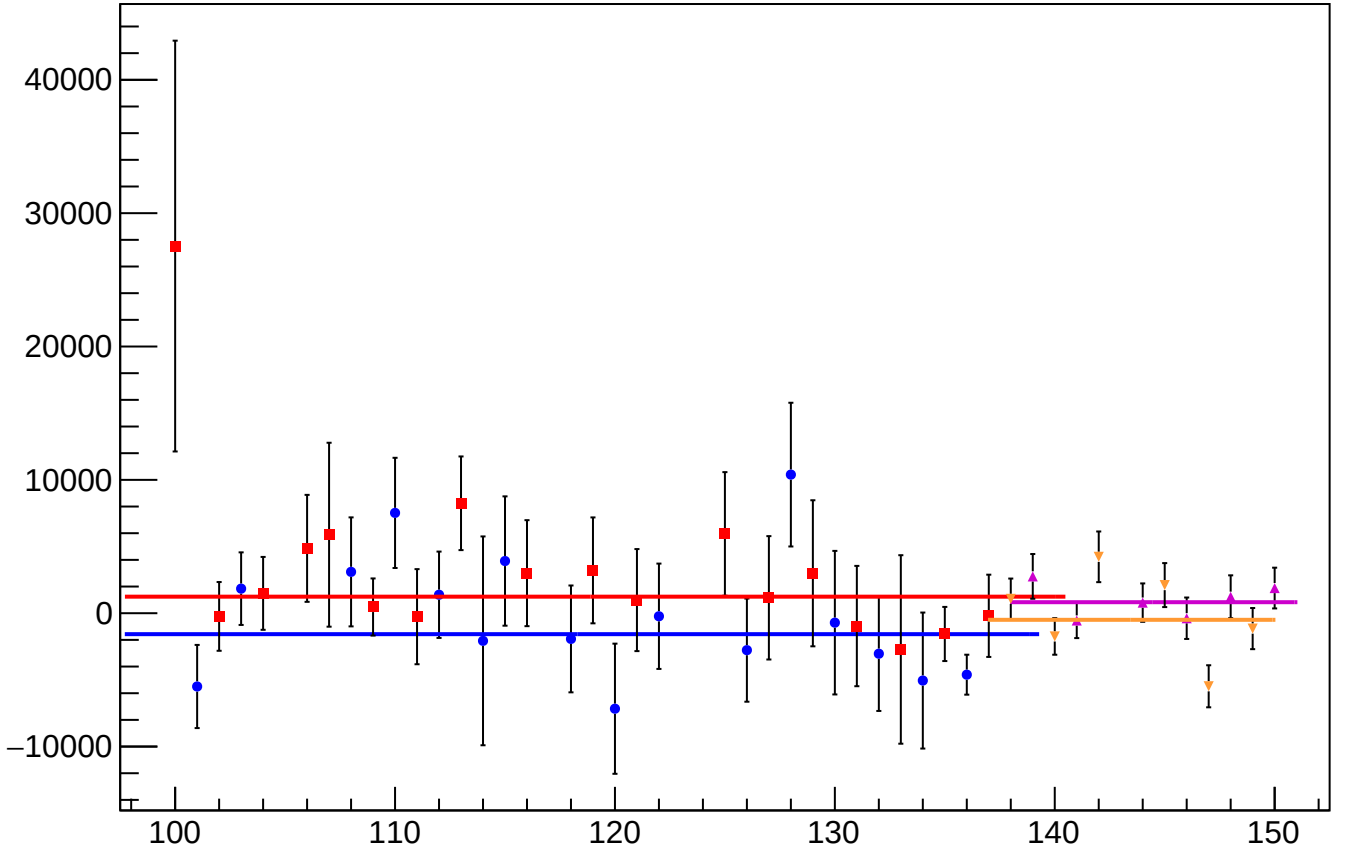
Right: 2124.565+/-0.398 $\chi^2$/NDF: 339850.1/33

In: 2171.284+/-0.436 $\chi^2$/NDF:210383.8/21

Out: 2164.591+/-0.449 $\chi^2$/NDF:202002.5/23

All: 2168.037+/-0.313 $\chi^2$/NDF: 412500.6/45

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -1571.073+/-859.754 $\chi^2$/NDF: 22.6/15

Left Out: -495.435+/-641.696 $\chi^2$/NDF:20.7/5

Right Out: 1241.008+/-819.775 $\chi^2$/NDF: 13.1/17

Left In: 825.984+/-615.115 $\chi^2$/NDF:3.6/5

Left: 193.209+/-444.052 $\chi^2$/NDF: 26.5/11

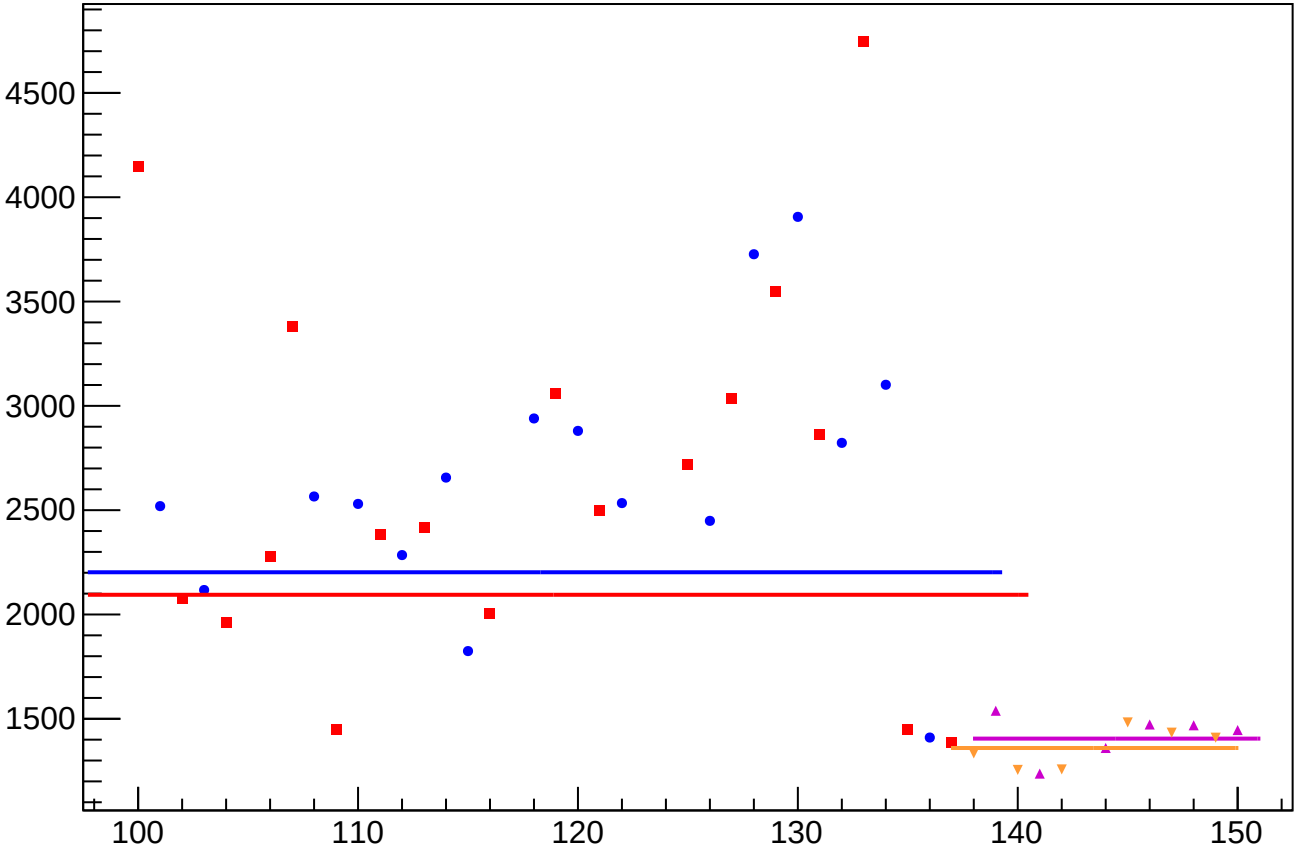
Right: -98.133+/-593.299 $\chi^2$/NDF: 41.3/33

In: 14.412+/-500.263 $\chi^2$/NDF:31.3/21

Out: 164.298+/-505.299 $\chi^2$/NDF:36.6/23

All: 88.604+/-355.507 $\chi^2$/NDF: 67.9/45

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 2202.378+/-0.608 $\chi^2$/NDF: 1222965.0/15

Left Out: 1360.024+/-0.454 $\chi^2$/NDF:35580.7/5

Right Out: 2094.445+/-0.580 $\chi^2$/NDF: 1373676.8/17

Left In: 1405.075+/-0.435 $\chi^2$/NDF:55328.7/5

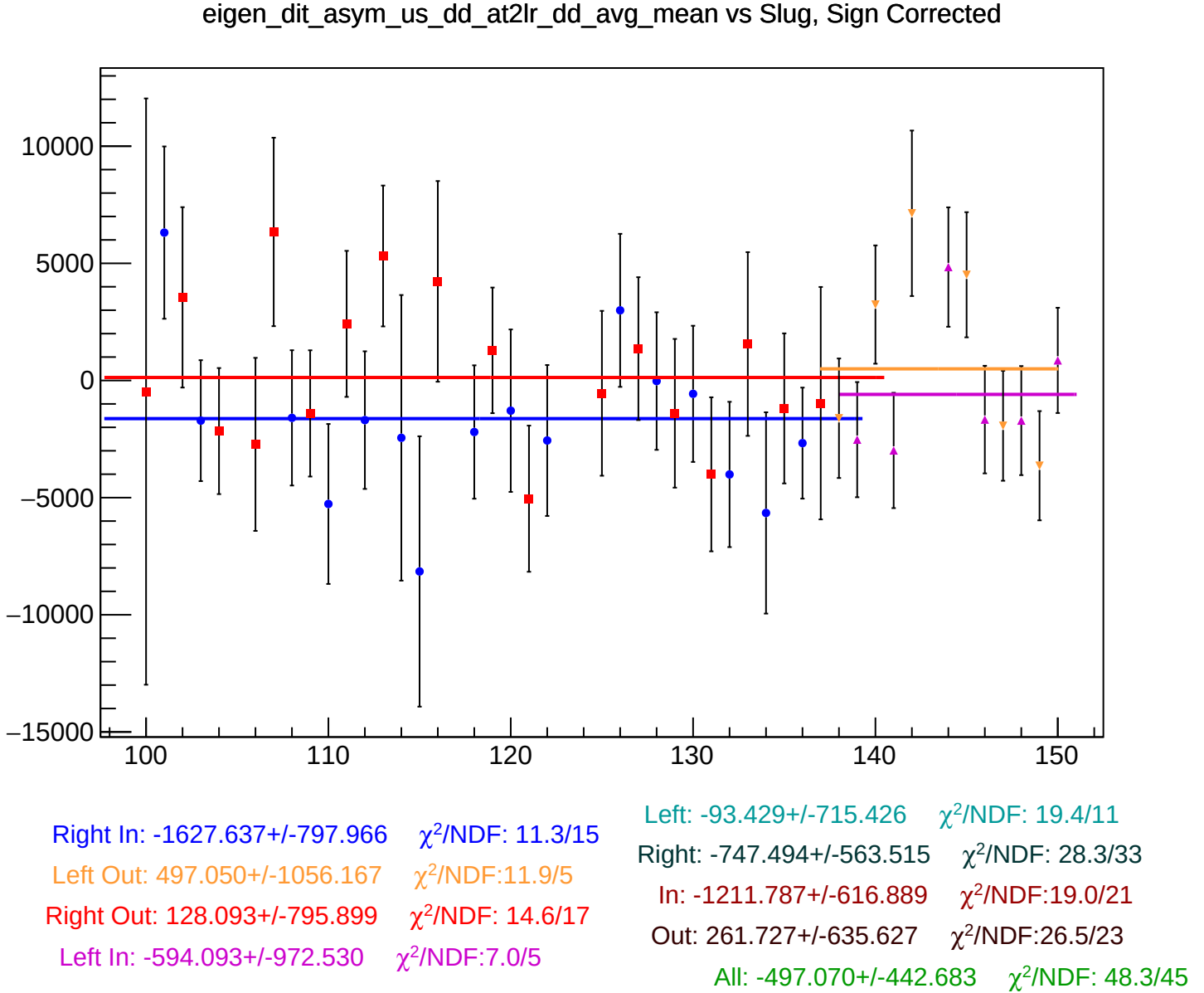
Left: 1383.502+/-0.314 $\chi^2$/NDF: 96046.7/11

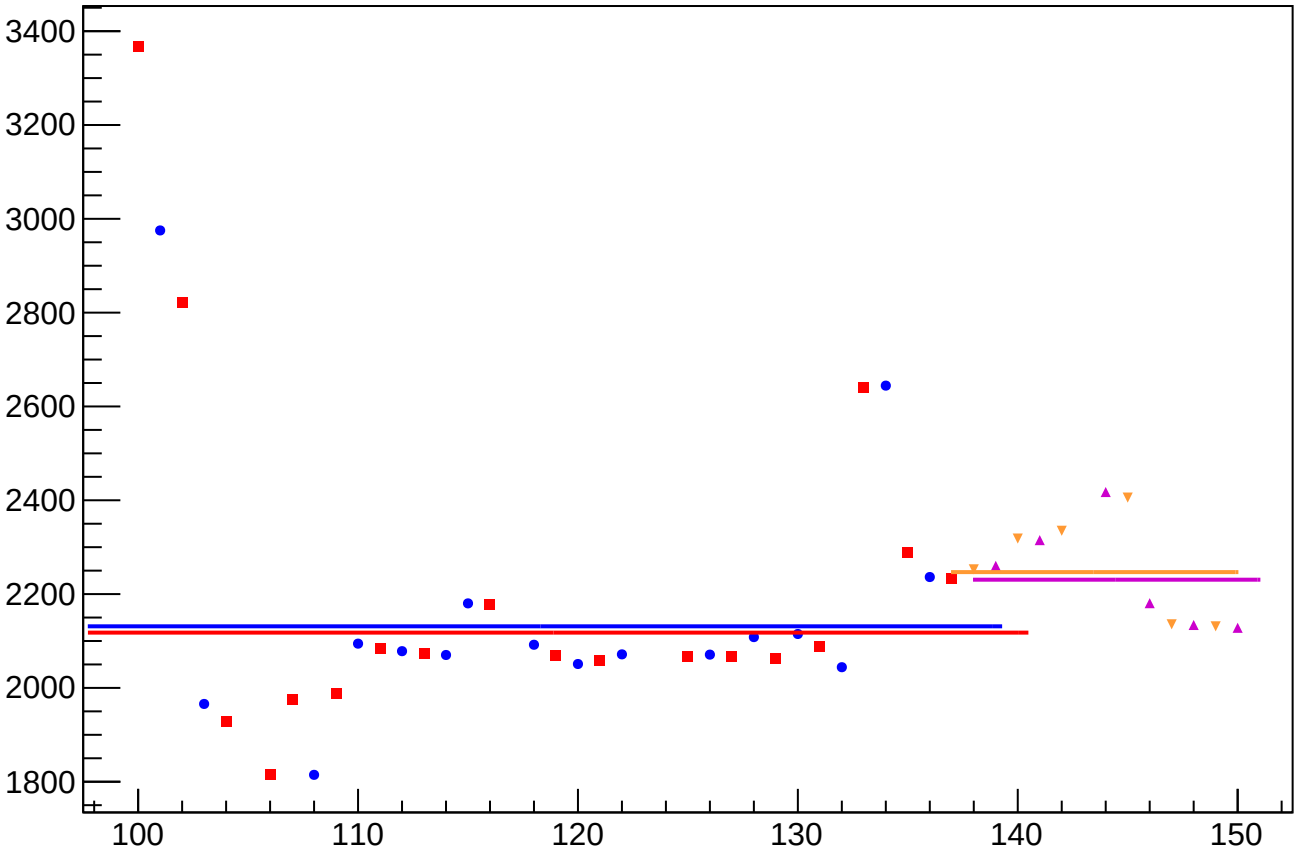
Right: 2145.844+/-0.420 $\chi^2$/NDF: 2613152.0/33

In: 1675.018+/-0.354 $\chi^2$/NDF:2415953.9/21

Out: 1639.055+/-0.357 $\chi^2$/NDF:2404591.3/23

All: 1657.217+/-0.251 $\chi^2$/NDF: 4825661.4/45


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: -1627.637+/-797.966 χ²/NDF: 11.3/15
Left Out: 497.050+/-1056.167 χ²/NDF:11.9/5
Right Out: 128.093+/-795.899 χ²/NDF: 14.6/17
Left In: -594.093+/-972.530 χ²/NDF:7.0/5
Left: -93.429+/-715.426 χ²/NDF: 19.4/11
Right: -747.494+/-563.515 χ²/NDF: 28.3/33
In: -1211.787+/-616.889 χ²/NDF:19.0/21
Out: 261.727+/-635.627 χ²/NDF:26.5/23
All: -497.070+/-442.683 χ²/NDF: 48.3/45




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2246.870+/-0.747 $\chi^2$/NDF:19349.4/5

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.6/17

Left In: 2230.678+/-0.688 $\chi^2$/NDF:21959.2/5

Left: 2238.107+/-0.506 $\chi^2$/NDF: 41563.0/11

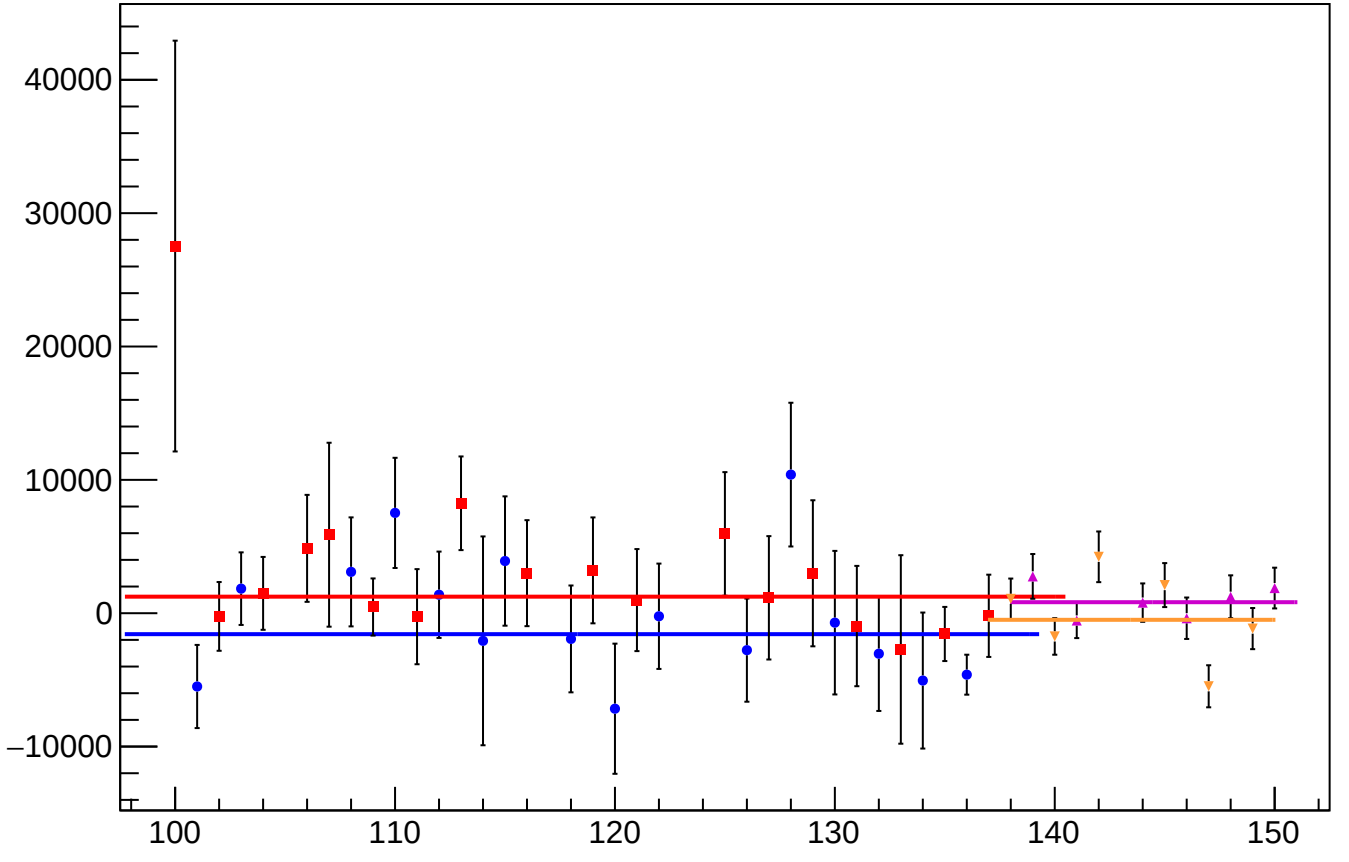
Right: 2124.565+/-0.398 $\chi^2$/NDF: 339849.9/33

In: 2171.284+/-0.436 $\chi^2$/NDF:210383.9/21

Out: 2164.591+/-0.449 $\chi^2$/NDF:202002.5/23

All: 2168.037+/-0.313 $\chi^2$/NDF: 412500.6/45

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1571.058+/-859.757 $\chi^2$/NDF: 22.6/15

Left Out: -495.444+/-641.699 $\chi^2$/NDF:20.7/5

Right Out: 1241.023+/-819.778 $\chi^2$/NDF: 13.1/17

Left In: 825.982+/-615.116 $\chi^2$/NDF:3.6/5

Left: 193.206+/-444.053 $\chi^2$/NDF: 26.5/11

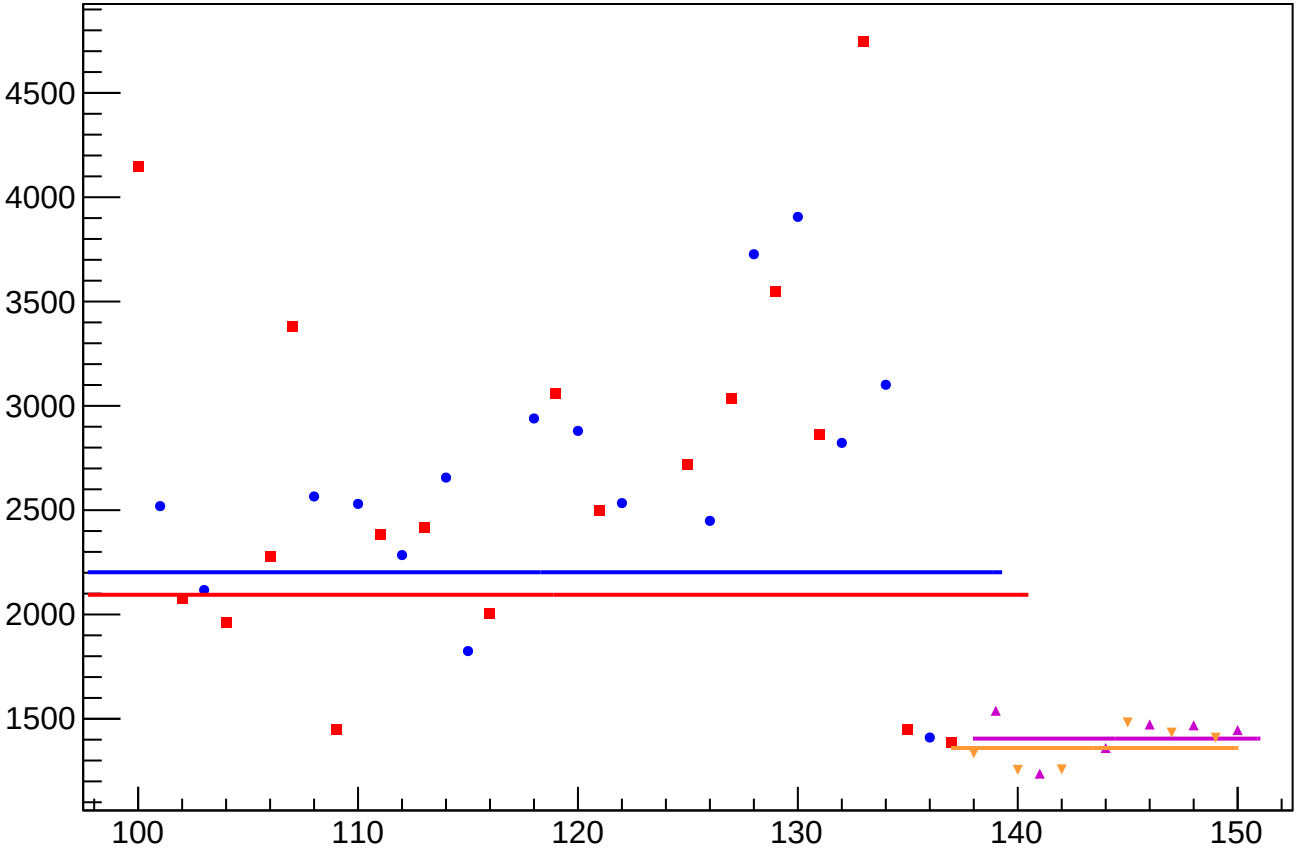
Right: -98.119+/-593.301 $\chi^2$/NDF: 41.3/33

In: 14.418+/-500.264 $\chi^2$/NDF:31.3/21

Out: 164.298+/-505.301 $\chi^2$/NDF:36.6/23

All: 88.607+/-355.507 $\chi^2$/NDF: 67.9/45

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 2202.391+/-0.608 $\chi^2$/NDF: 1222905.3/15

Left Out: 1360.030+/-0.454 $\chi^2$/NDF:35577.5/5

Right Out: 2094.457+/-0.580 $\chi^2$/NDF: 1373629.6/17

Left In: 1405.076+/-0.435 $\chi^2$/NDF:55330.0/5

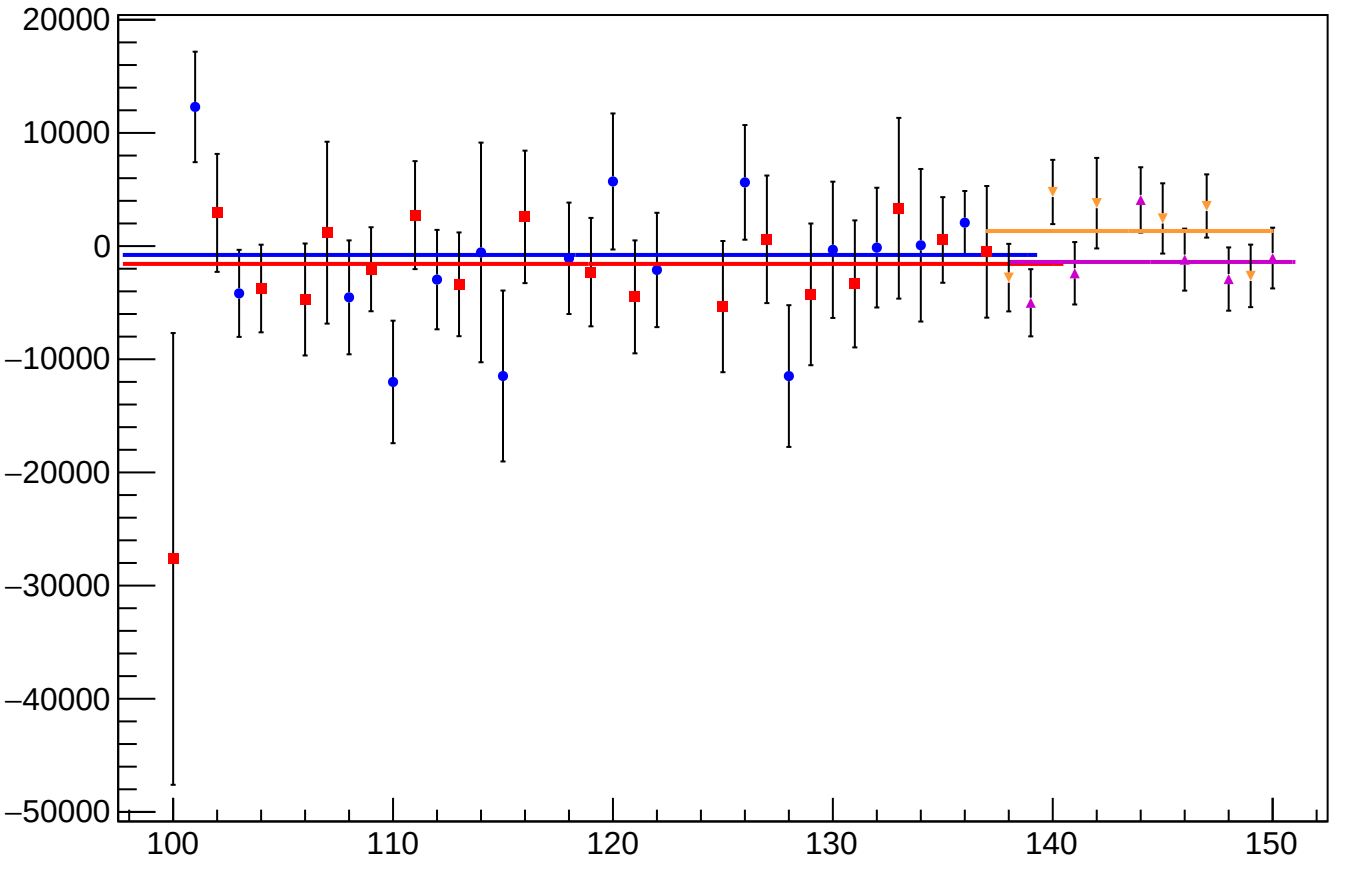
Left: 1383.506+/-0.314 $\chi^2$/NDF: 96043.5/11

Right: 2145.856+/-0.420 $\chi^2$/NDF: 2613045.0/33

In: 1675.022+/-0.354 $\chi^2$/NDF:2415922.9/21

Out: 1639.064+/-0.357 $\chi^2$/NDF:2404549.5/23

All: 1657.223+/-0.251 $\chi^2$/NDF: 4825587.2/45




Right In: -781.619+/-1241.711 $\chi^2$/NDF: 21.9/15

Left Out: 1330.360+/-1229.326 $\chi^2$/NDF:6.6/5

Right Out: -1574.673+/-1218.961 $\chi^2$/NDF: 6.7/17

Left In: -1402.383+/-1143.226 $\chi^2$/NDF:5.5/5

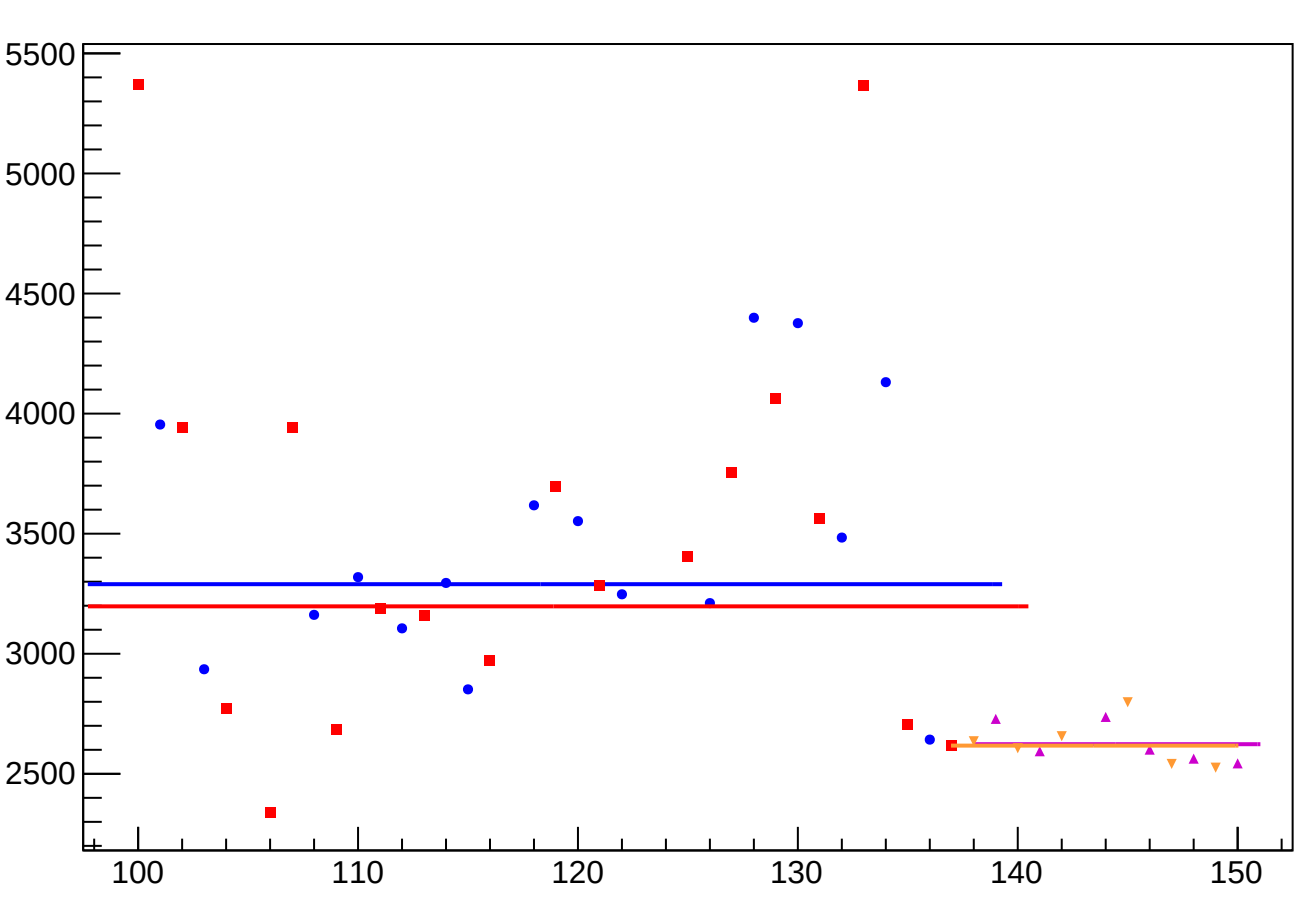
Left: -135.053+/-837.168 $\chi^2$/NDF: 14.8/11

Right: -1185.478+/-869.867 $\chi^2$/NDF: 28.8/33

In: -1117.592+/-841.048 $\chi^2$/NDF:27.6/21

Out: -134.456+/-865.577 $\chi^2$/NDF:16.1/23

All: -640.151+/-603.196 $\chi^2$/NDF: 44.3/45




Right In: 3289.690+/-0.878 $\chi^2$/NDF: 347594.0/15

Left Out: 2617.501+/-0.869 $\chi^2$/NDF:10759.9/5

Right Out: 3197.375+/-0.862 $\chi^2$/NDF: 499934.1/17

Left In: 2623.388+/-0.808 $\chi^2$/NDF:8682.7/5

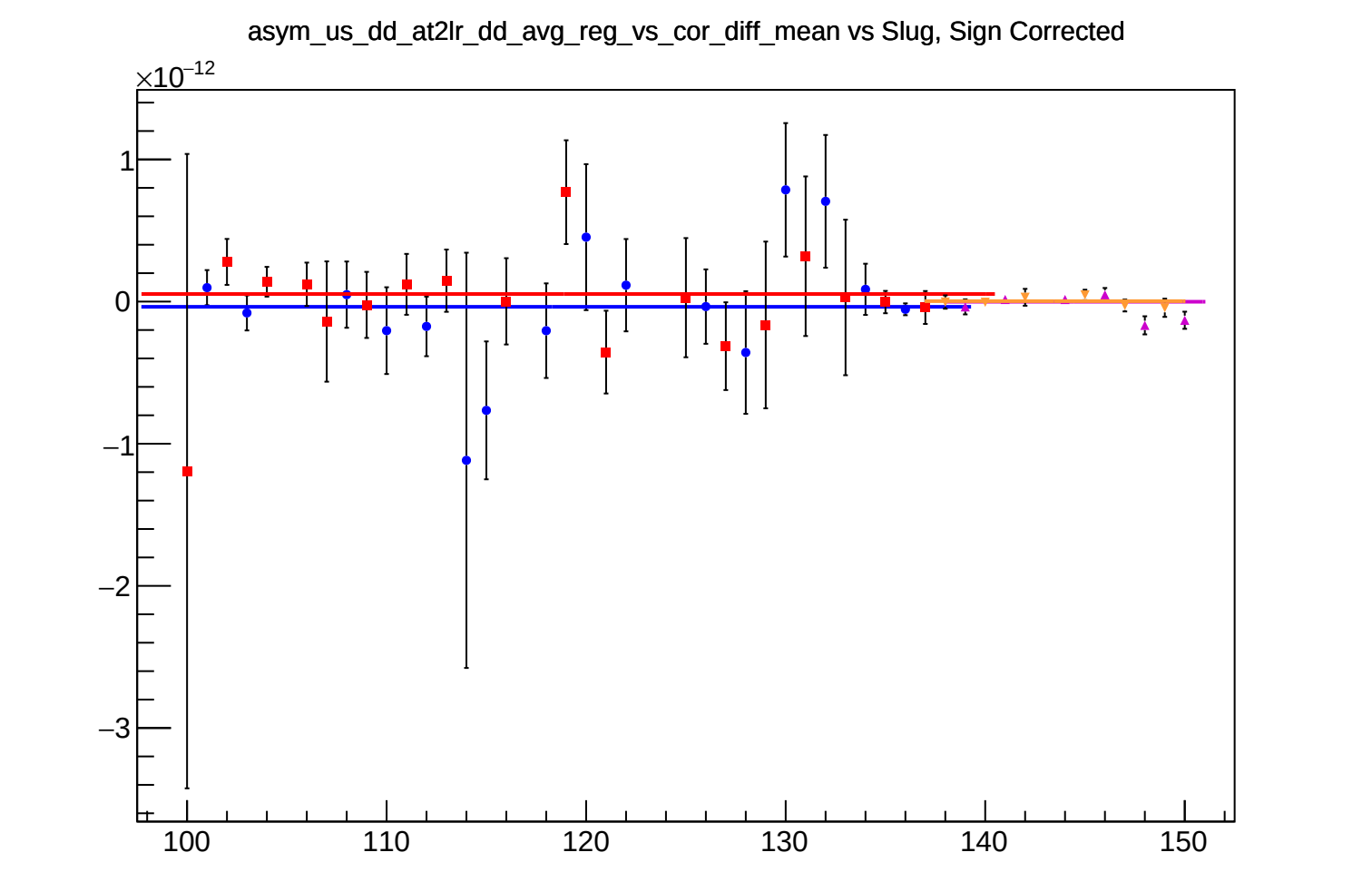
Left: 2620.658+/-0.592 $\chi^2$/NDF: 19467.2/11

Right: 3242.678+/-0.615 $\chi^2$/NDF: 853157.4/33

In: 2929.072+/-0.595 $\chi^2$/NDF:667956.2/21

Out: 2909.898+/-0.612 $\chi^2$/NDF:735082.6/23

All: 2919.760+/-0.427 $\chi^2$/NDF: 1403543.6/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.0/5

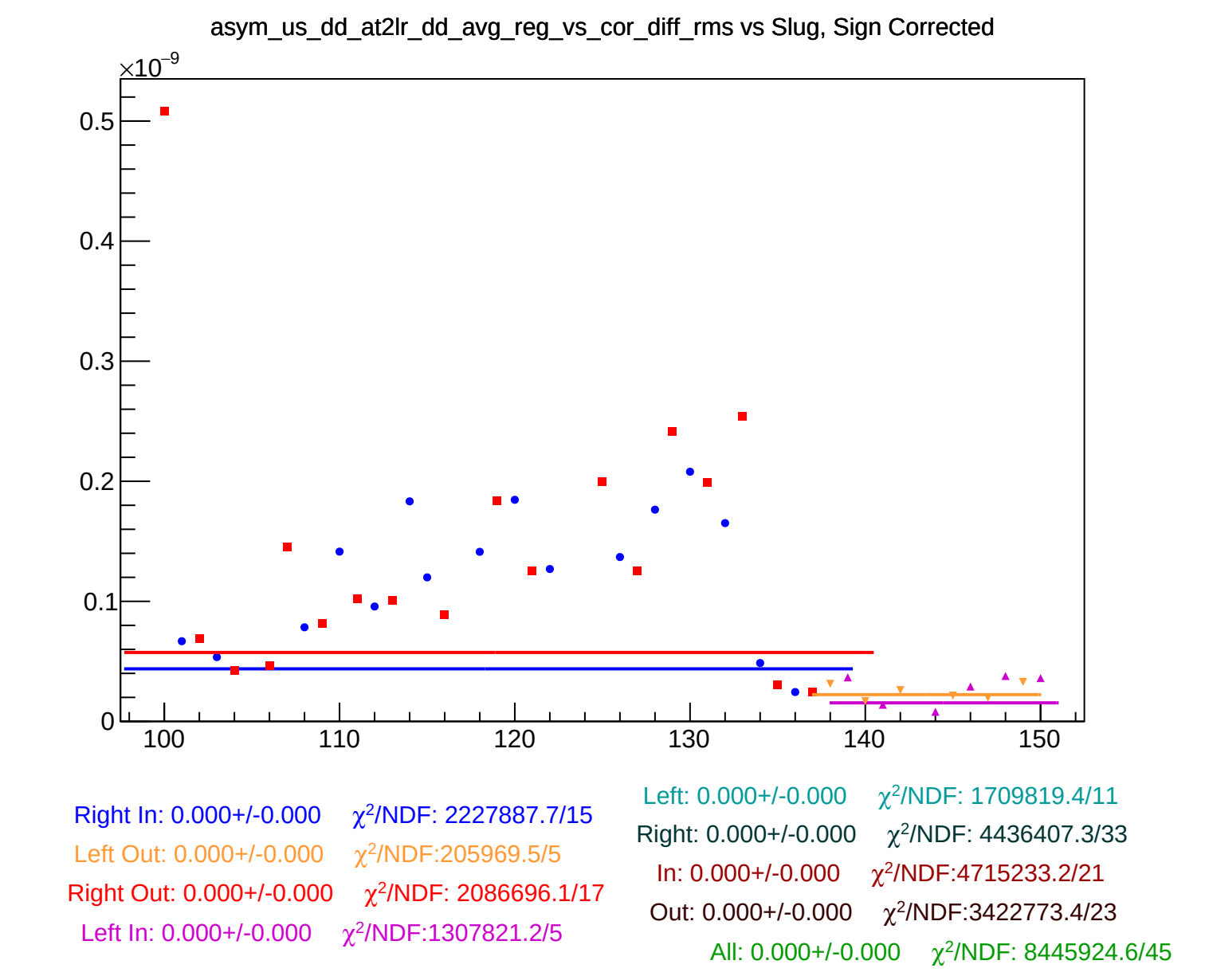
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.8/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/33

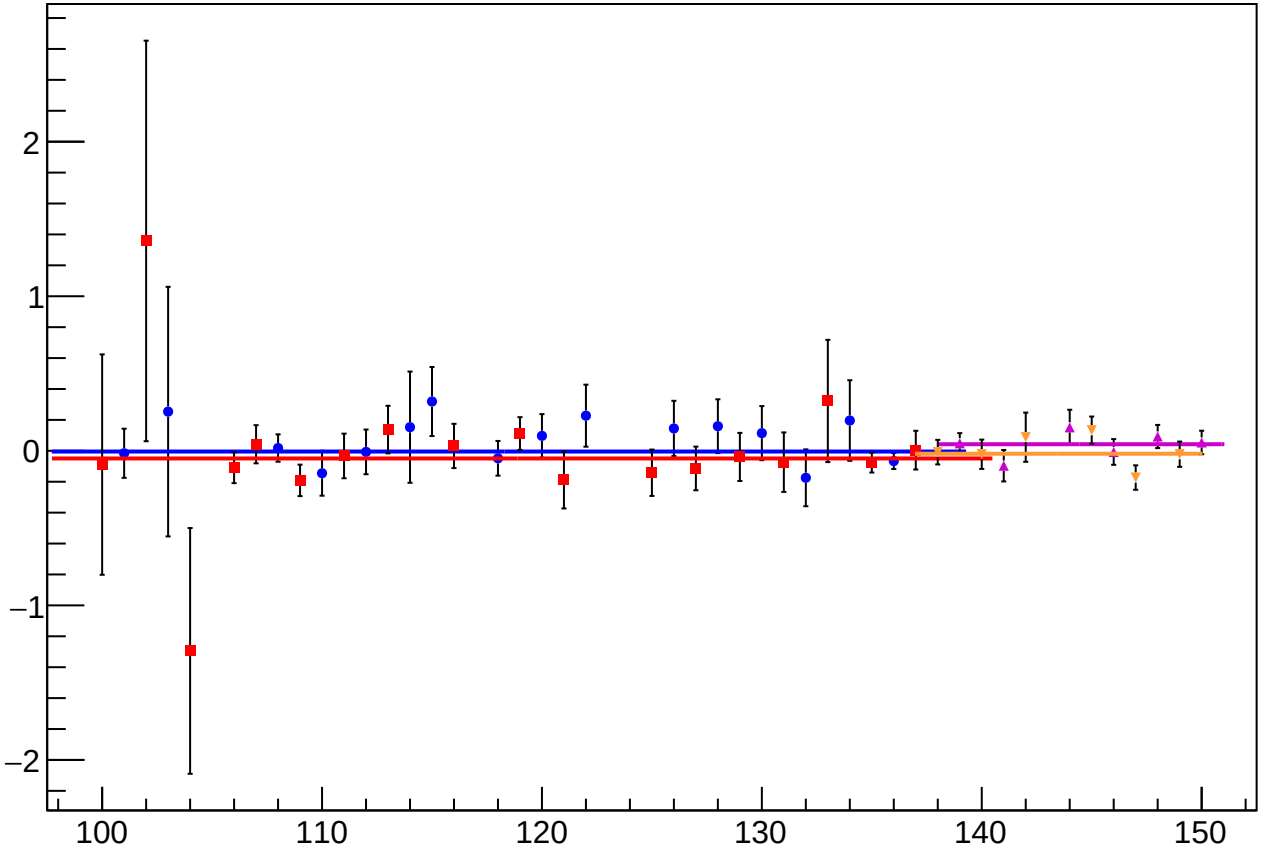
In: -0.000+/-0.000 $\chi^2$/NDF:28.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:16.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.2/45


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2227887.7/15
Left Out: 0.000+/-0.000 χ²/NDF:205969.5/5
Right Out: 0.000+/-0.000 χ²/NDF: 2086696.1/17
Left In: 0.000+/-0.000 χ²/NDF:1307821.2/5
Left: 0.000+/-0.000 χ²/NDF: 1709819.4/11
Right: 0.000+/-0.000 χ²/NDF: 4436407.3/33
In: 0.000+/-0.000 χ²/NDF:4715233.2/21
Out: 0.000+/-0.000 χ²/NDF:3422773.4/23
All: 0.000+/-0.000 χ²/NDF: 8445924.6/45

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.019+/-0.037 $\chi^2$/NDF:7.2/5

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.043+/-0.033 $\chi^2$/NDF:3.6/5

Left: 0.015+/-0.025 $\chi^2$/NDF: 12.4/11

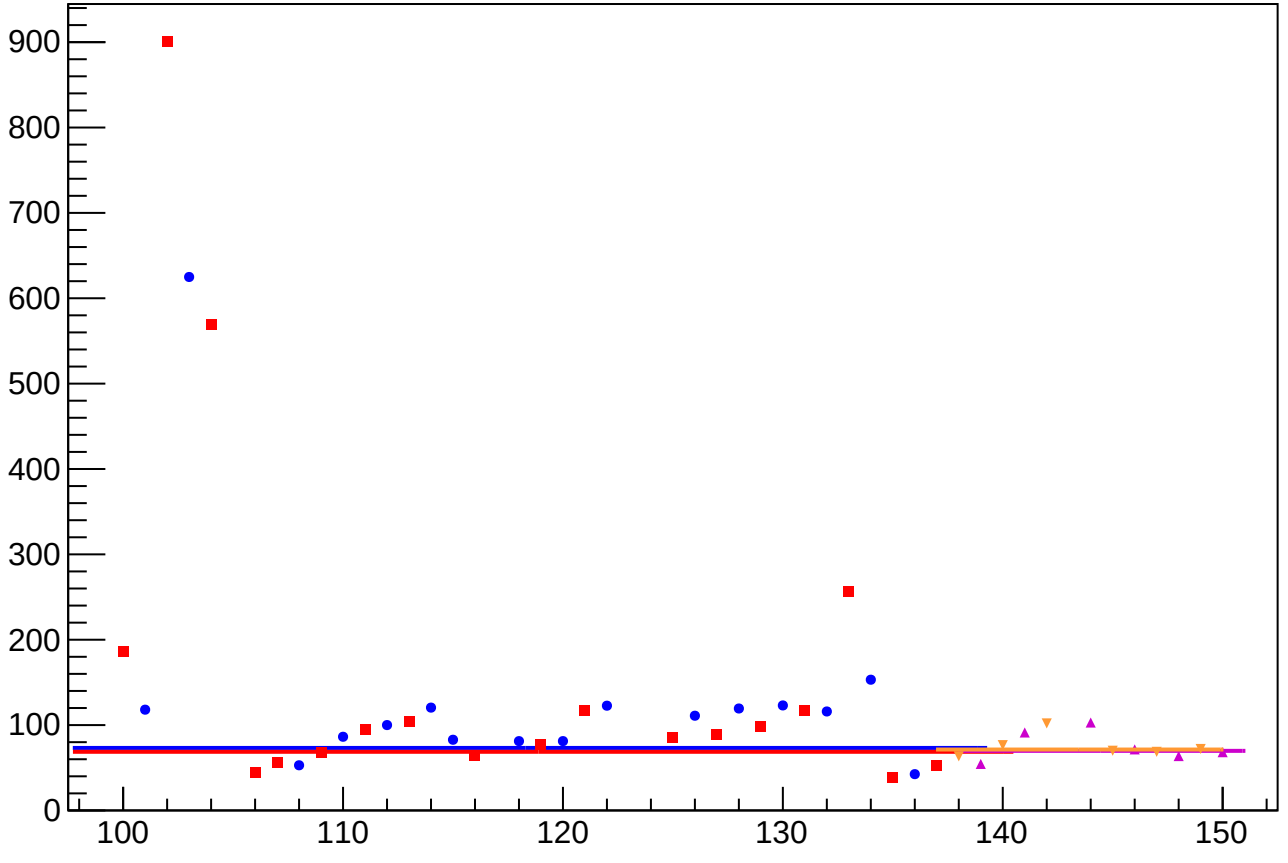
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.018+/-0.023 $\chi^2$/NDF:15.0/21

Out: -0.036+/-0.024 $\chi^2$/NDF:20.7/23

All: -0.008+/-0.017 $\chi^2$/NDF: 38.4/45

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.234+/-0.023 $\chi^2$/NDF: 2854601.2/15

Left Out: 71.361+/-0.026 $\chi^2$/NDF:102947.6/5

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 69.816+/-0.024 $\chi^2$/NDF:383435.0/5

Left: 70.516+/-0.017 $\chi^2$/NDF: 488331.8/11

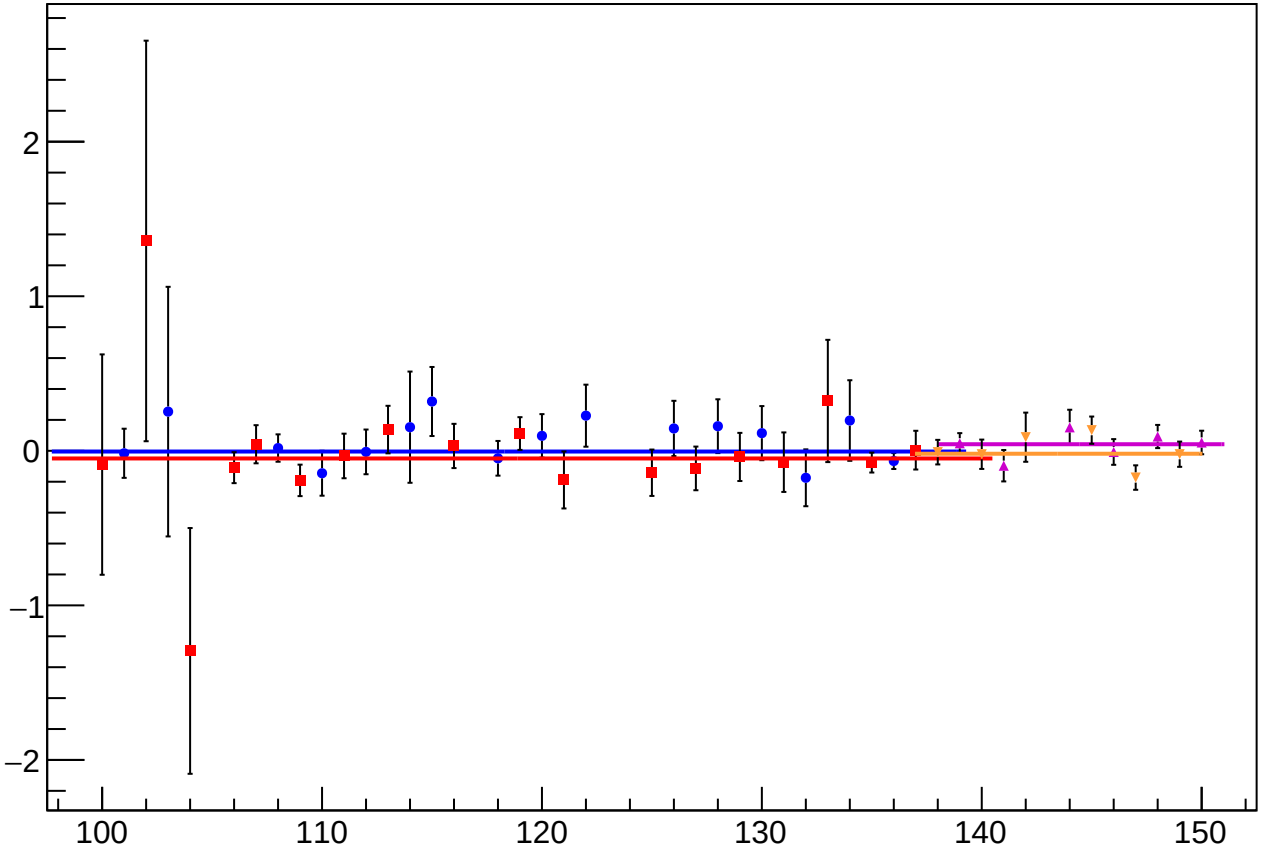
Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

In: 71.582+/-0.016 $\chi^2$/NDF:3248912.7/21

Out: 69.853+/-0.017 $\chi^2$/NDF:3440632.2/23

All: 70.746+/-0.012 $\chi^2$/NDF: 6694933.7/45

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.019+/-0.037 $\chi^2$/NDF:7.2/5

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.043+/-0.033 $\chi^2$/NDF:3.6/5

Left: 0.015+/-0.025 $\chi^2$/NDF: 12.4/11

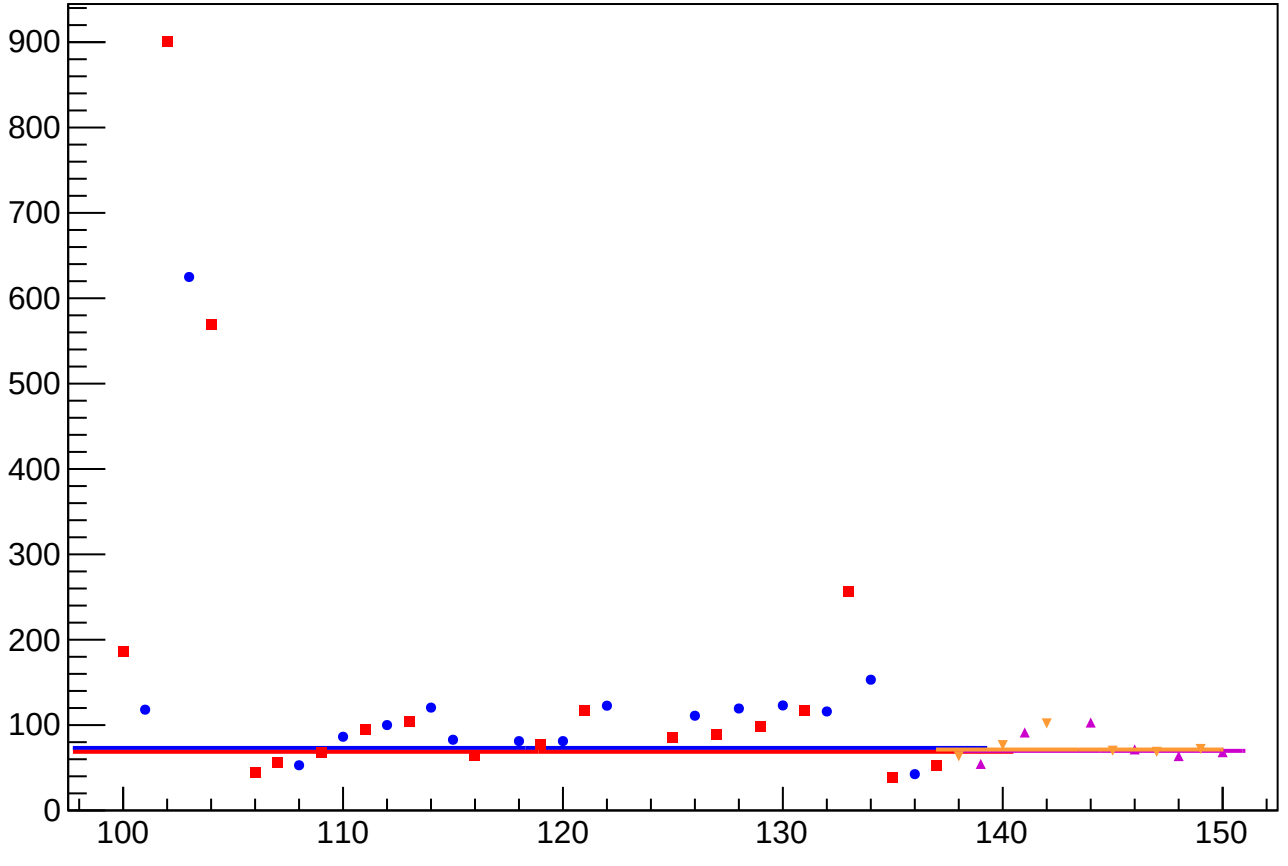
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.018+/-0.023 $\chi^2$/NDF:15.0/21

Out: -0.036+/-0.024 $\chi^2$/NDF:20.7/23

All: -0.008+/-0.017 $\chi^2$/NDF: 38.4/45

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.234+/-0.023 $\chi^2$/NDF: 2854601.2/15

Left Out: 71.361+/-0.026 $\chi^2$/NDF:102947.6/5

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 69.816+/-0.024 $\chi^2$/NDF:383435.0/5

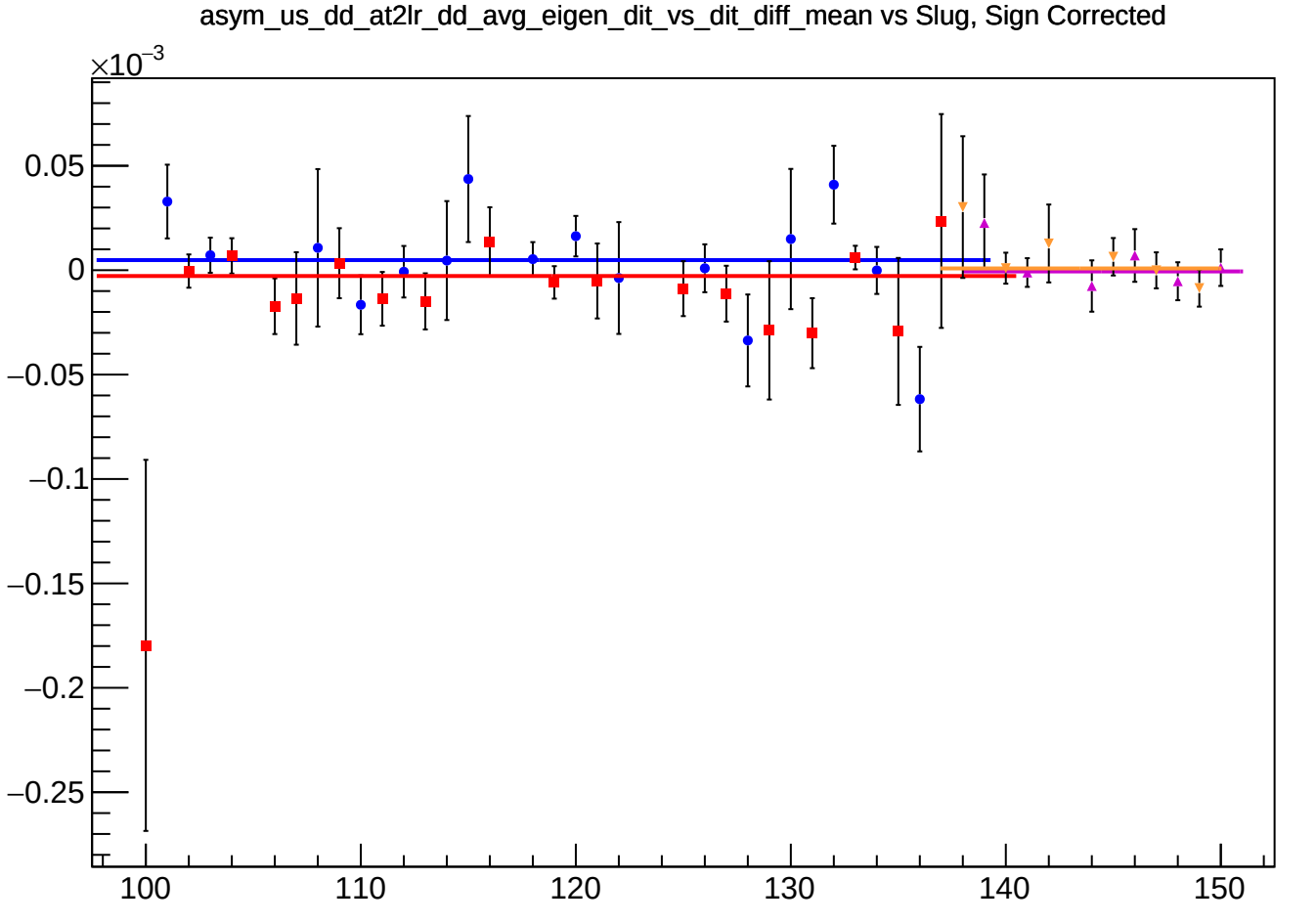
Left: 70.516+/-0.017 $\chi^2$/NDF: 488331.8/11

Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

In: 71.582+/-0.016 $\chi^2$/NDF:3248912.7/21

Out: 69.853+/-0.017 $\chi^2$/NDF:3440632.2/23

All: 70.746+/-0.012 $\chi^2$/NDF: 6694933.7/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.7/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 4.7/11

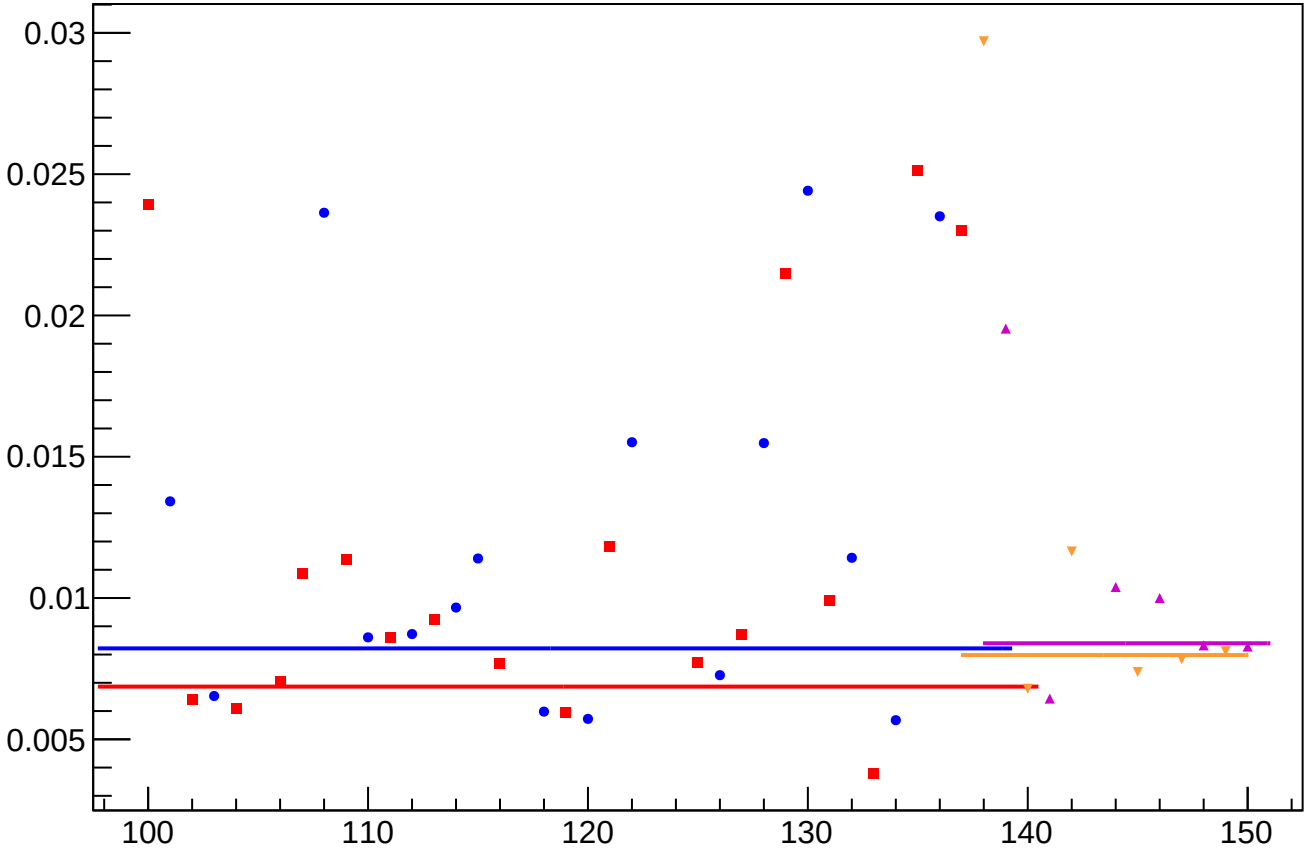
Right: 0.000+/-0.000 $\chi^2$/NDF: 42.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:25.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 47.0/45

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 2656170.2/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:958336.9/5

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 2426444.0/17

Left In: 0.008+/-0.000 $\chi^2$/NDF:706915.3/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 1675833.4/11

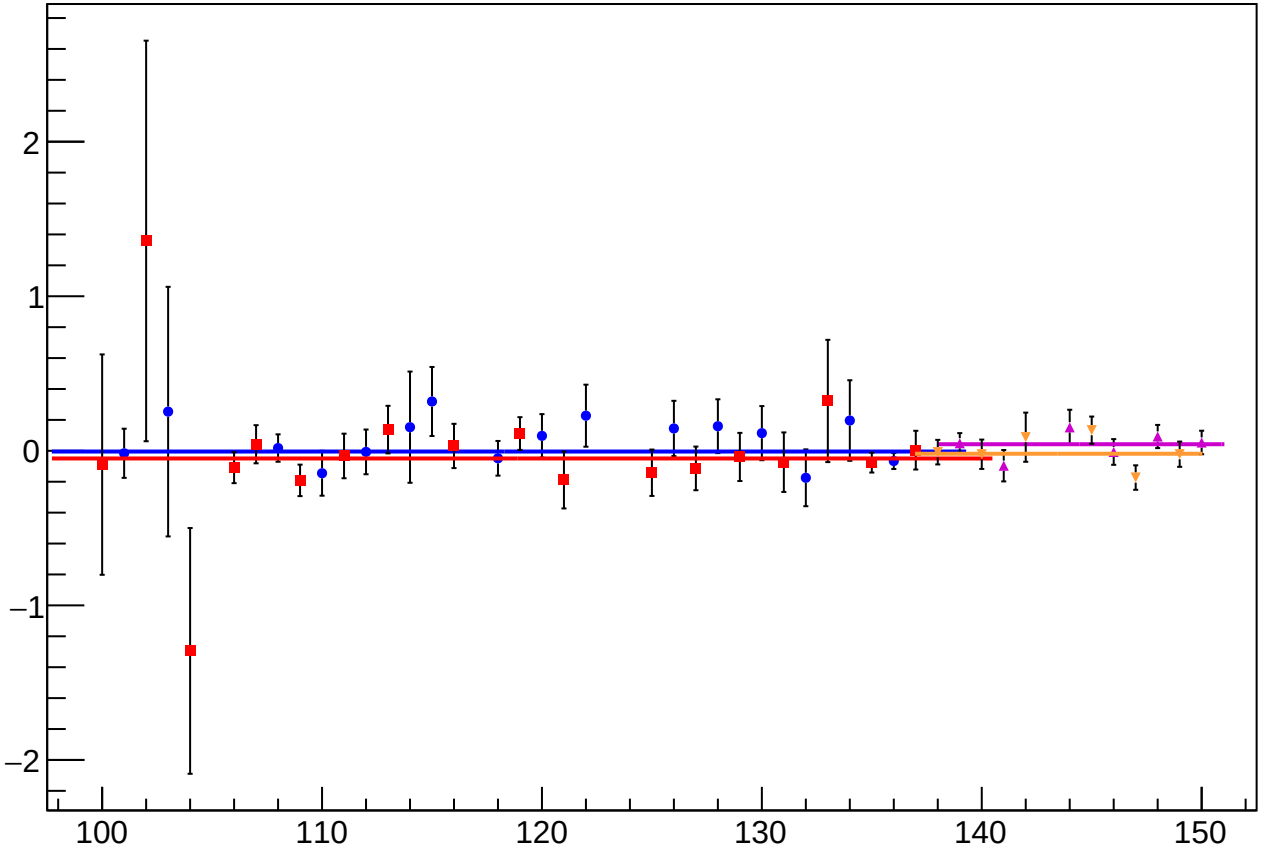
Right: 0.007+/-0.000 $\chi^2$/NDF: 5263403.5/33

In: 0.008+/-0.000 $\chi^2$/NDF:3365376.9/21

Out: 0.007+/-0.000 $\chi^2$/NDF:3486090.8/23

All: 0.008+/-0.000 $\chi^2$/NDF: 7034315.7/45

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.019+/-0.037 $\chi^2$/NDF:7.2/5

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.043+/-0.033 $\chi^2$/NDF:3.6/5

Left: 0.015+/-0.025 $\chi^2$/NDF: 12.4/11

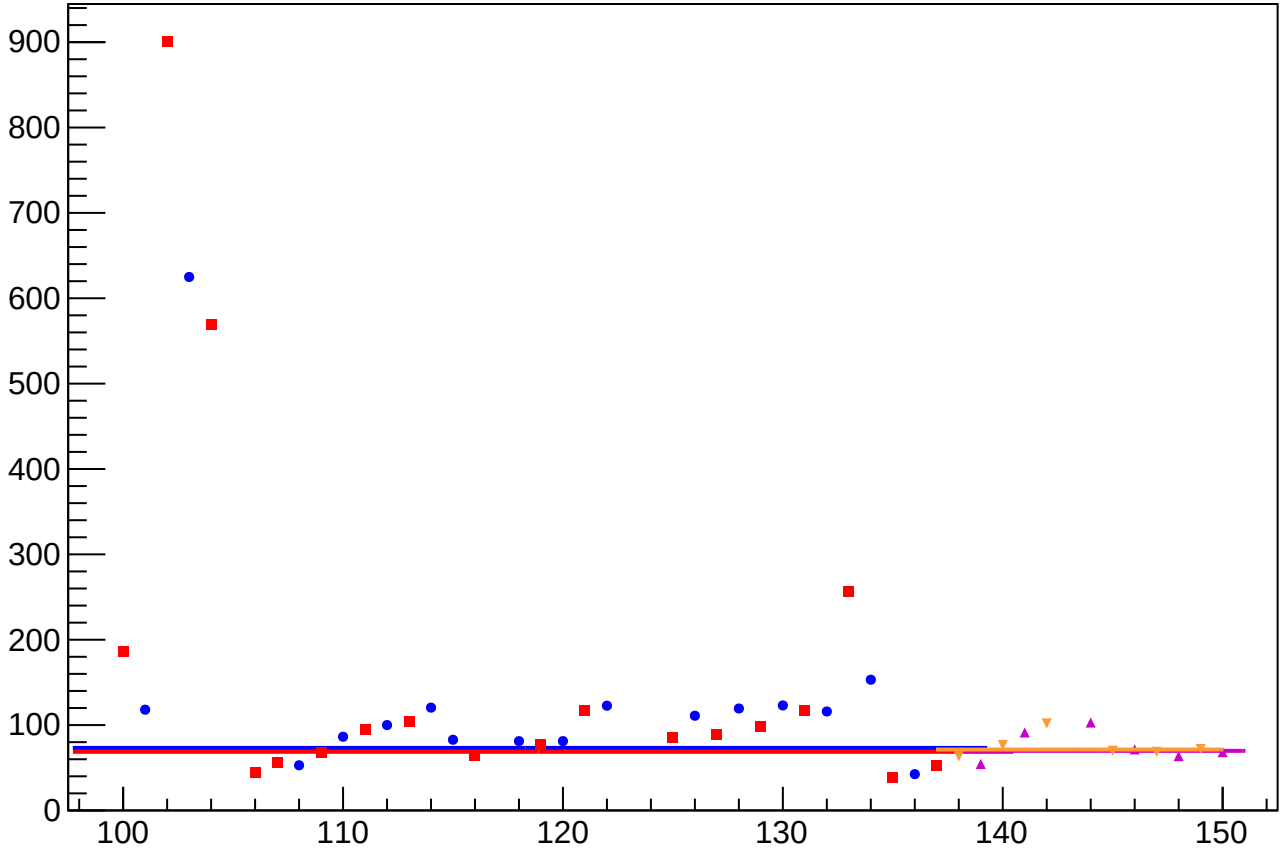
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.018+/-0.023 $\chi^2$/NDF:15.0/21

Out: -0.036+/-0.024 $\chi^2$/NDF:20.7/23

All: -0.008+/-0.017 $\chi^2$/NDF: 38.4/45

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.260+/-0.023 $\chi^2$/NDF: 2852306.8/15

Left Out: 71.362+/-0.026 $\chi^2$/NDF:102949.5/5

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 69.819+/-0.024 $\chi^2$/NDF:383227.8/5

Left: 70.518+/-0.017 $\chi^2$/NDF: 488123.3/11

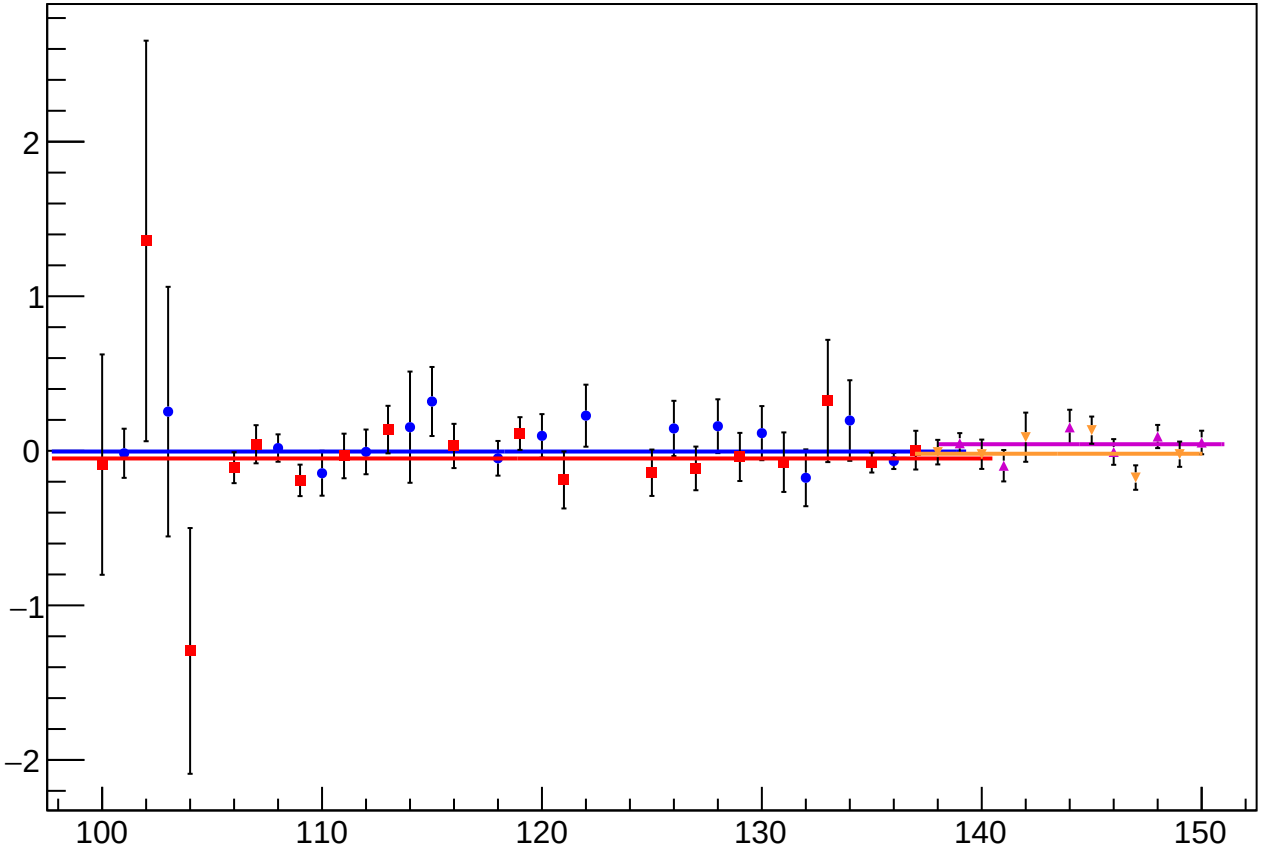
Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 71.596+/-0.016 $\chi^2$/NDF:3246554.4/21

Out: 69.847+/-0.017 $\chi^2$/NDF:3441690.0/23

All: 70.750+/-0.012 $\chi^2$/NDF: 6693757.3/45

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.019+/-0.037 $\chi^2$/NDF:7.2/5

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.043+/-0.033 $\chi^2$/NDF:3.6/5

Left: 0.015+/-0.025 $\chi^2$/NDF: 12.4/11

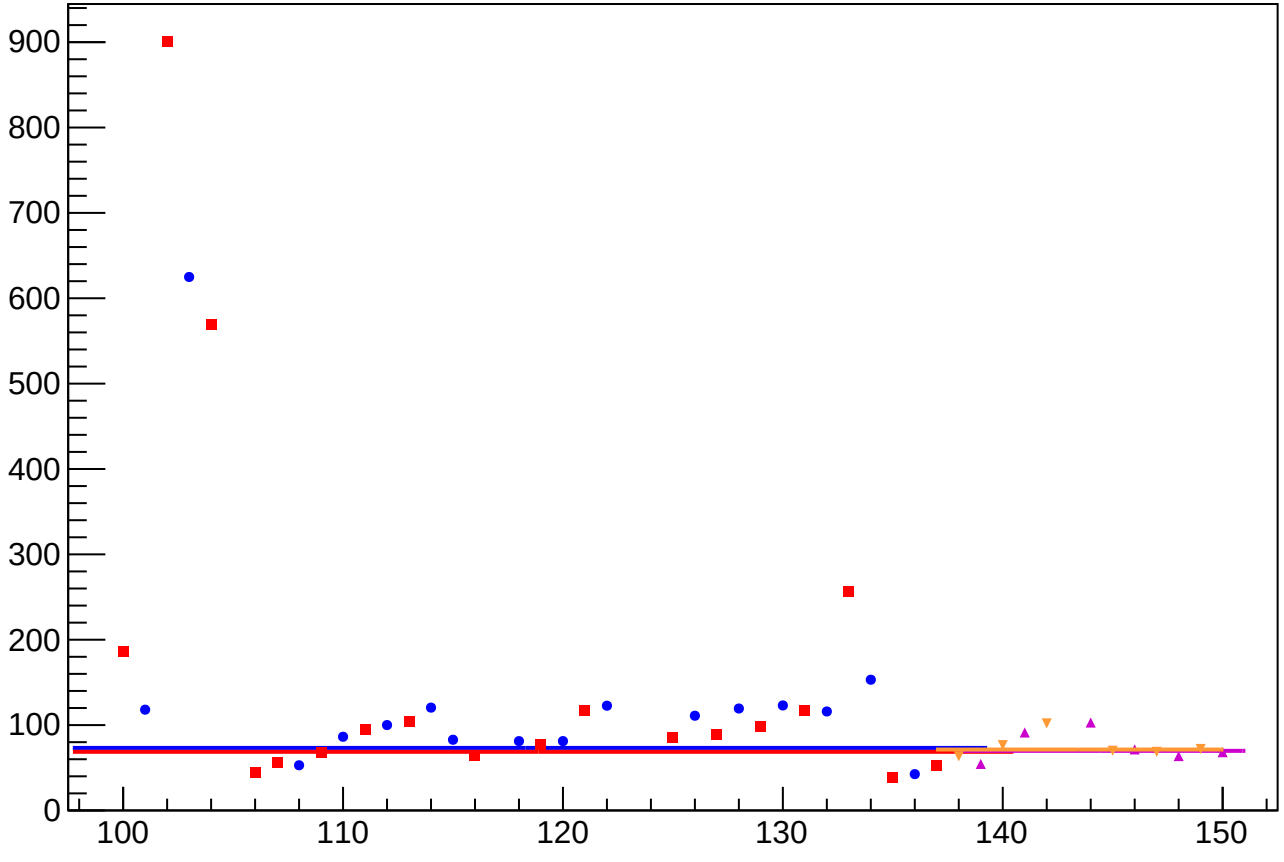
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.018+/-0.023 $\chi^2$/NDF:15.0/21

Out: -0.036+/-0.024 $\chi^2$/NDF:20.7/23

All: -0.008+/-0.017 $\chi^2$/NDF: 38.4/45

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.260+/-0.023 $\chi^2$/NDF: 2852306.8/15

Left Out: 71.362+/-0.026 $\chi^2$/NDF:102949.5/5

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 69.819+/-0.024 $\chi^2$/NDF:383227.8/5

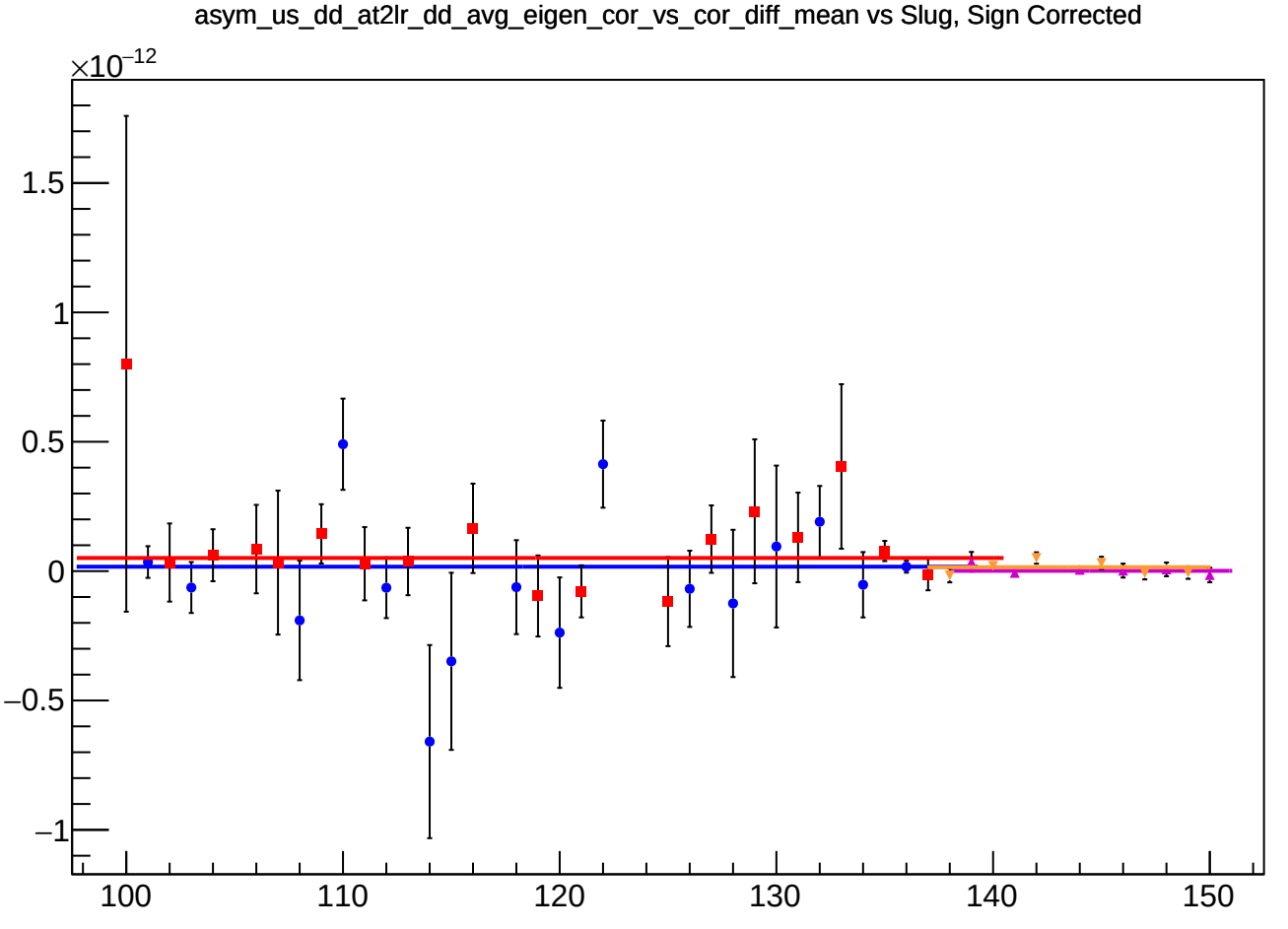
Left: 70.518+/-0.017 $\chi^2$/NDF: 488123.3/11

Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 71.596+/-0.016 $\chi^2$/NDF:3246554.4/21

Out: 69.847+/-0.017 $\chi^2$/NDF:3441690.0/23

All: 70.750+/-0.012 $\chi^2$/NDF: 6693757.3/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.1/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.5/5

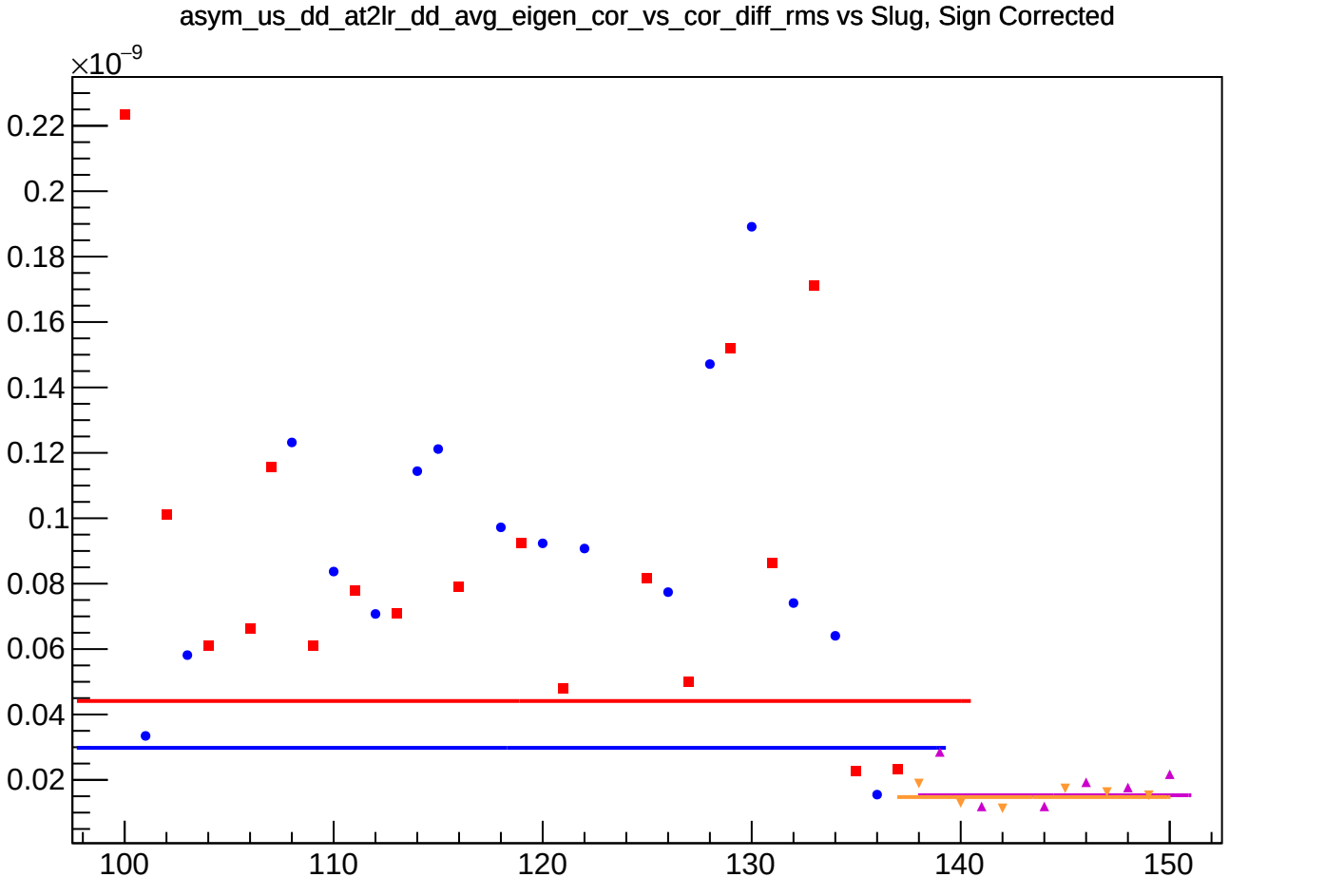
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.9/11

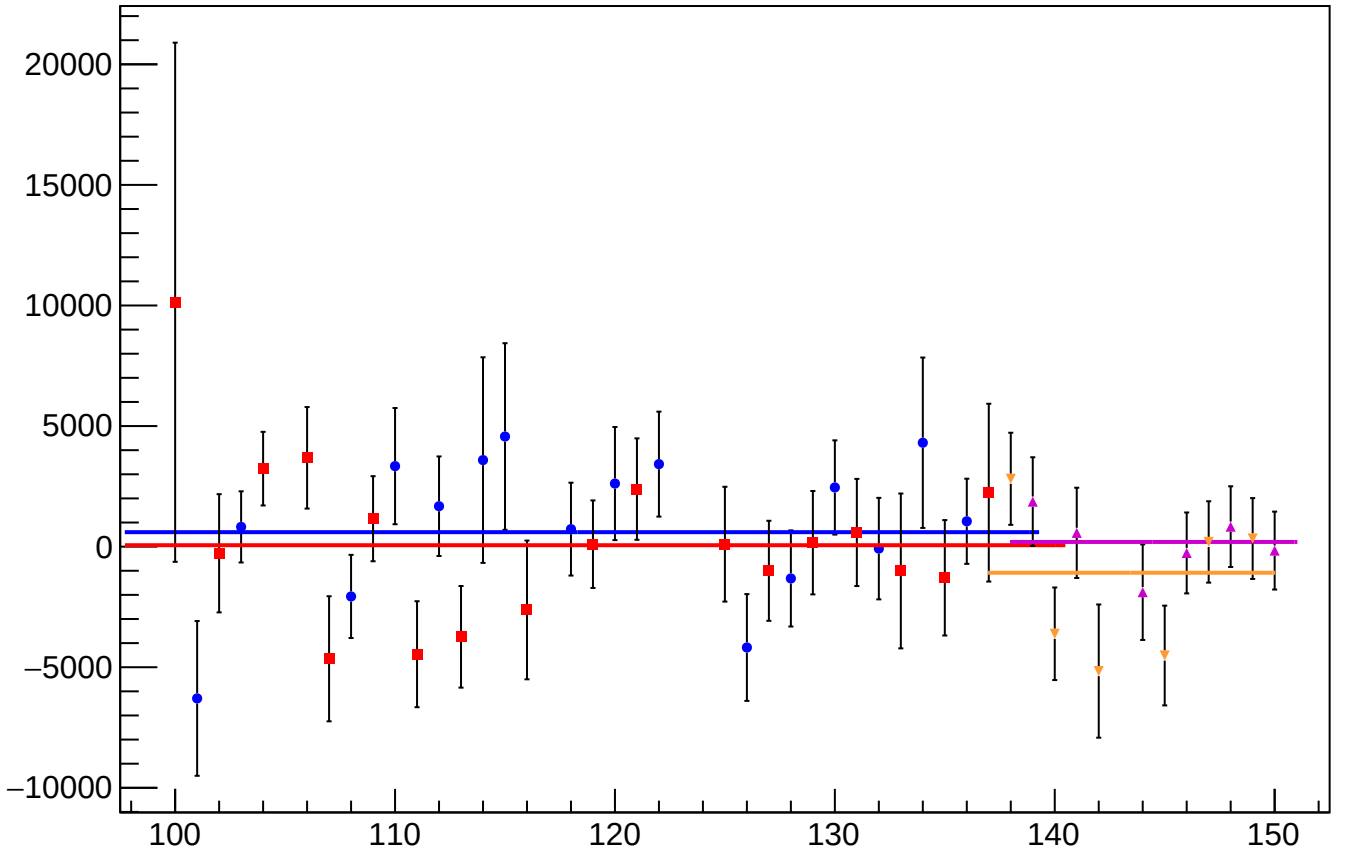
Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:25.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:17.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 44.2/45


asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 4079776.1/15
Left Out: 0.000+/-0.000 χ²/NDF:153369.6/5
Right Out: 0.000+/-0.000 χ²/NDF: 2779318.5/17
Left In: 0.000+/-0.000 χ²/NDF:583221.9/5
Left: 0.000+/-0.000 χ²/NDF: 740355.0/11
Right: 0.000+/-0.000 χ²/NDF: 7274202.8/33
In: 0.000+/-0.000 χ²/NDF:5584512.0/21
Out: 0.000+/-0.000 χ²/NDF:5406113.5/23
All: 0.000+/-0.000 χ²/NDF: 10992233.3/45




Right In: 600.146+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: -1083.211+/-786.099 $\chi^2$/NDF:12.1/5

Right Out: 59.091+/-530.206 $\chi^2$/NDF: 22.5/17

Left In: 194.853+/-719.511 $\chi^2$/NDF:2.2/5

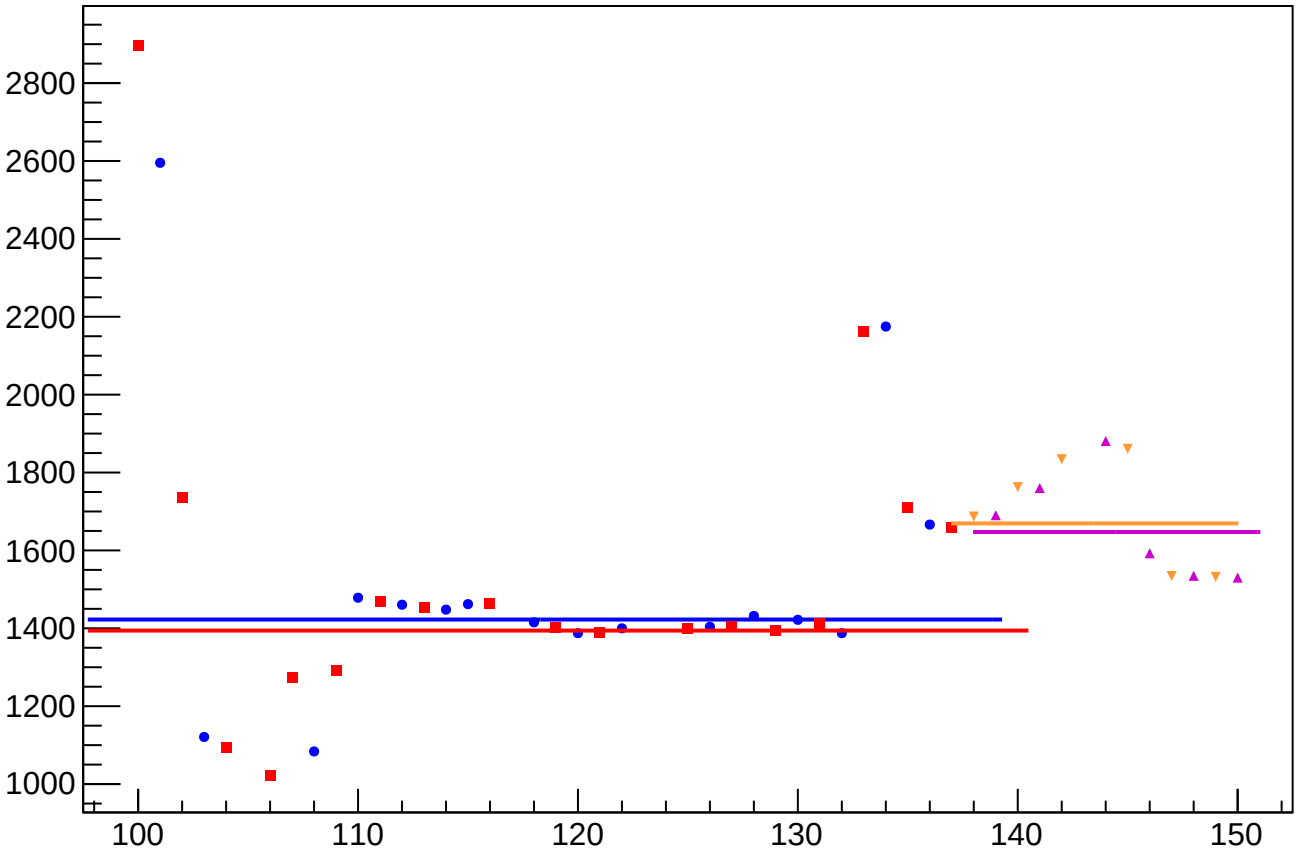
Left: -387.765+/-530.753 $\chi^2$/NDF: 15.8/11

Right: 324.641+/-378.346 $\chi^2$/NDF: 43.4/33

In: 454.095+/-431.921 $\chi^2$/NDF:22.8/21

Out: -298.081+/-439.567 $\chi^2$/NDF:36.1/23

All: 84.606+/-308.082 $\chi^2$/NDF: 60.4/45




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.3/15

Left Out: 1669.362+/-0.556 $\chi^2$/NDF:55404.6/5

Right Out: 1394.171+/-0.375 $\chi^2$/NDF: 393666.0/17

Left In: 1647.323+/-0.509 $\chi^2$/NDF:57797.8/5

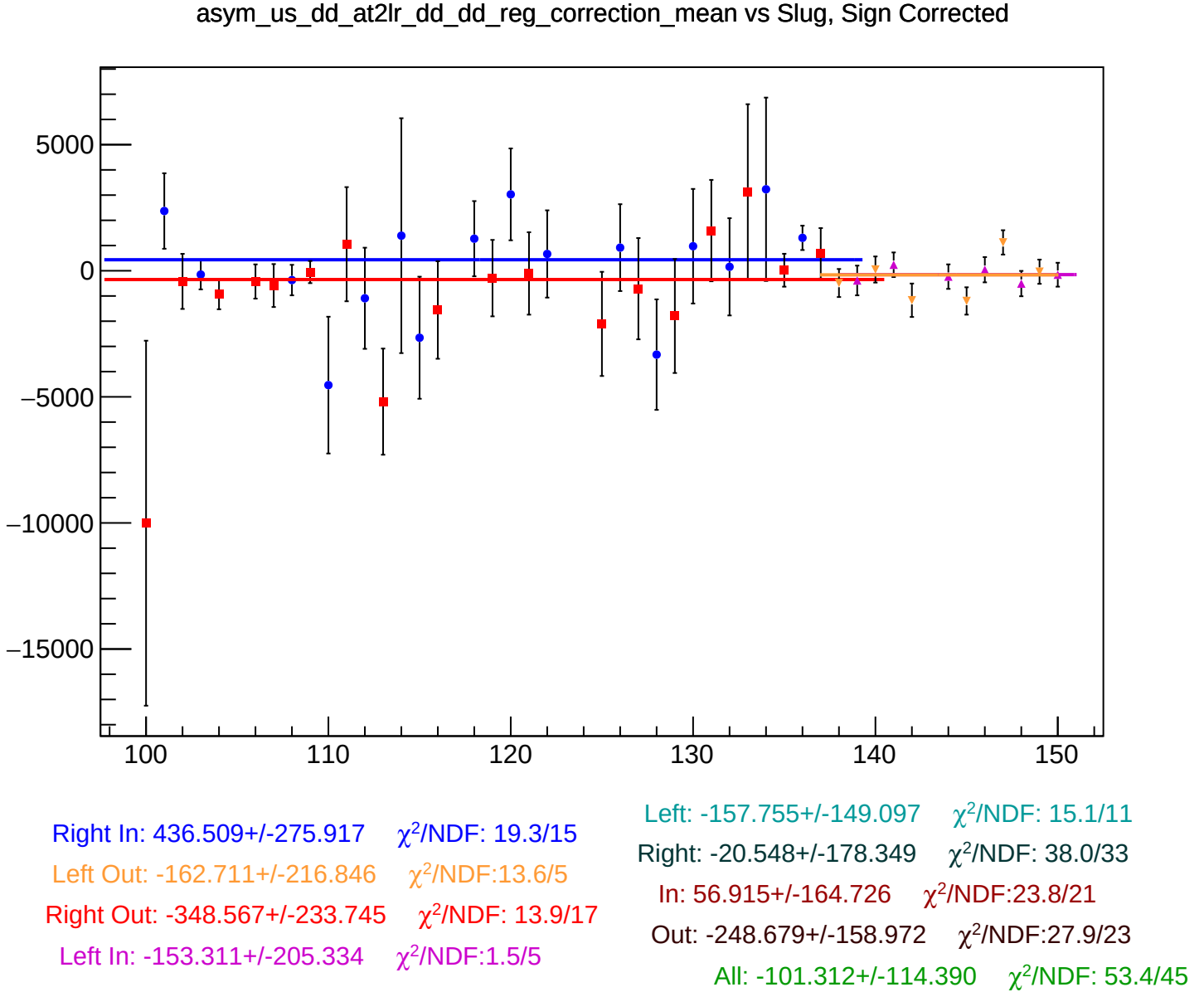
Left: 1657.370+/-0.375 $\chi^2$/NDF: 114057.9/11

Right: 1408.082+/-0.268 $\chi^2$/NDF: 956730.5/33

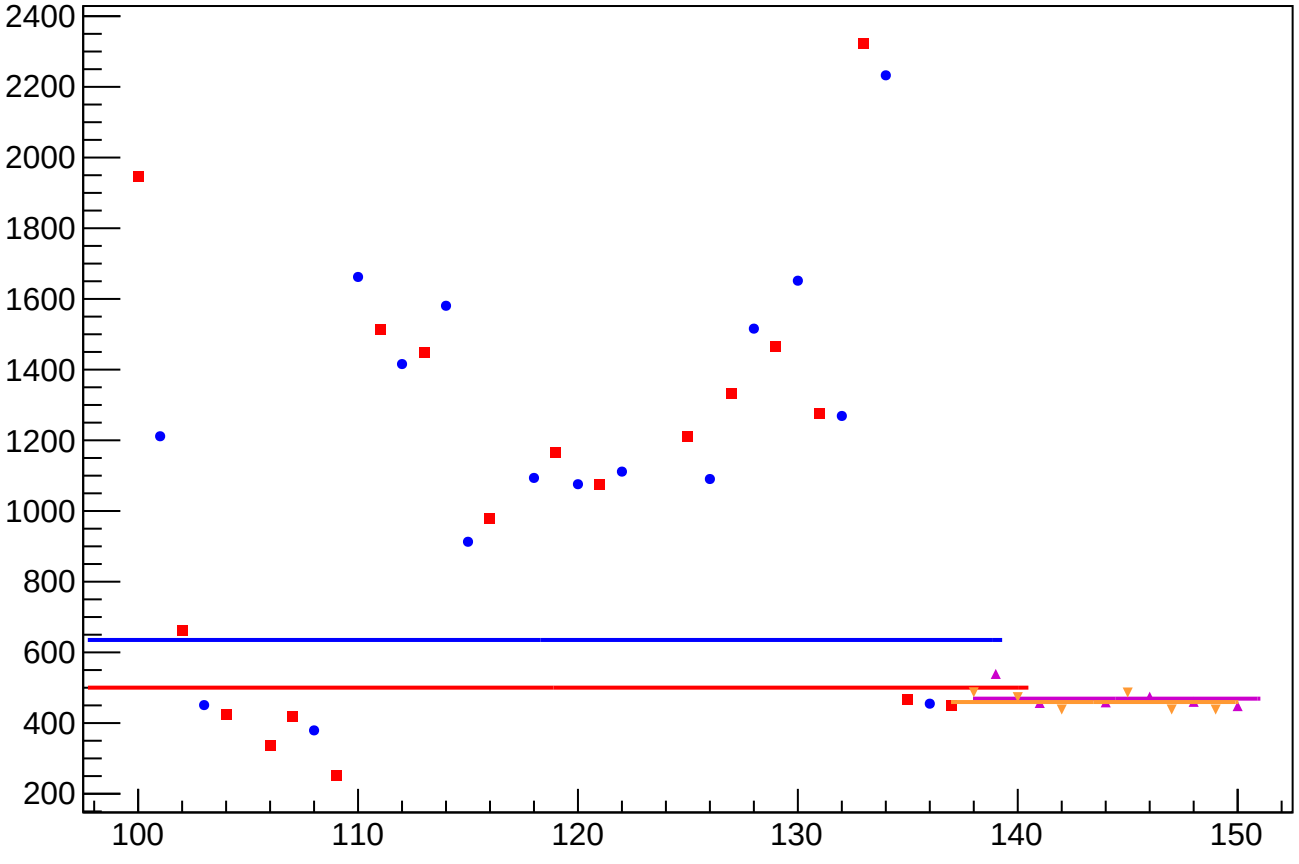
In: 1503.526+/-0.305 $\chi^2$/NDF:742944.0/21

Out: 1480.216+/-0.311 $\chi^2$/NDF:617534.9/23

All: 1492.076+/-0.218 $\chi^2$/NDF: 1363340.4/45


asym_us_dd_at2lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 436.509+/-275.917 χ²/NDF: 19.3/15
Left Out: -162.711+/-216.846 χ²/NDF:13.6/5
Right Out: -348.567+/-233.745 χ²/NDF: 13.9/17
Left In: -153.311+/-205.334 χ²/NDF:1.5/5
Left: -157.755+/-149.097 χ²/NDF: 15.1/11
Right: -20.548+/-178.349 χ²/NDF: 38.0/33
In: 56.915+/-164.726 χ²/NDF:23.8/21
Out: -248.679+/-158.972 χ²/NDF:27.9/23
All: -101.312+/-114.390 χ²/NDF: 53.4/45

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 635.135+/-0.195 $\chi^2$/NDF: 3752583.4/15

Left Out: 459.515+/-0.153 $\chi^2$/NDF:20992.9/5

Right Out: 500.231+/-0.165 $\chi^2$/NDF: 4309093.1/17

Left In: 469.074+/-0.145 $\chi^2$/NDF:35164.7/5

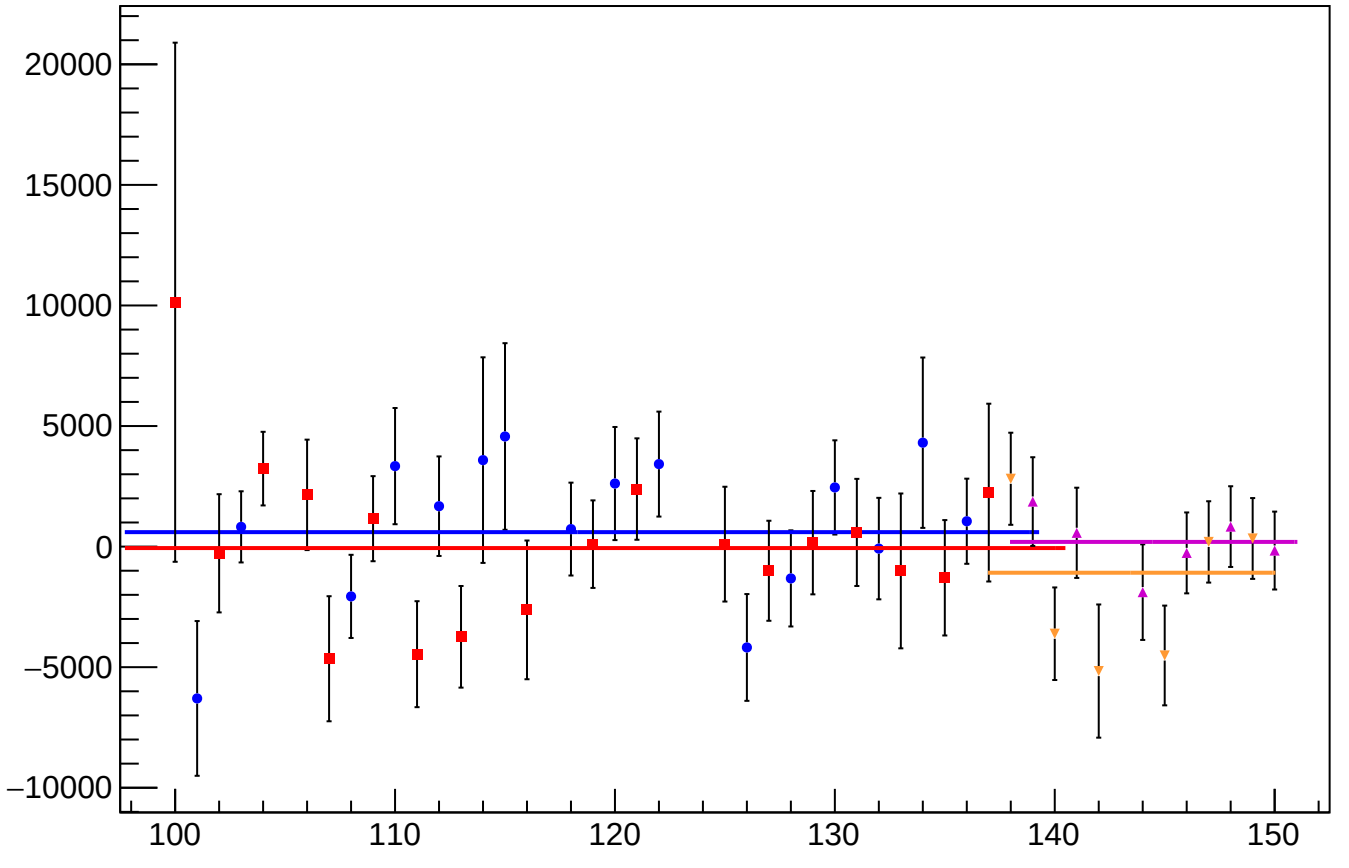
Left: 464.555+/-0.105 $\chi^2$/NDF: 58206.4/11

Right: 556.596+/-0.126 $\chi^2$/NDF: 8340019.1/33

In: 528.262+/-0.116 $\chi^2$/NDF:4253989.4/21

Out: 478.349+/-0.112 $\chi^2$/NDF:4362700.7/23

All: 502.418+/-0.081 $\chi^2$/NDF: 8711766.9/45




Right In: 600.020+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: -1083.241+/-786.099 $\chi^2$/NDF:12.1/5

Right Out: -60.361+/-532.826 $\chi^2$/NDF: 20.4/17

Left In: 194.849+/-719.511 $\chi^2$/NDF:2.2/5

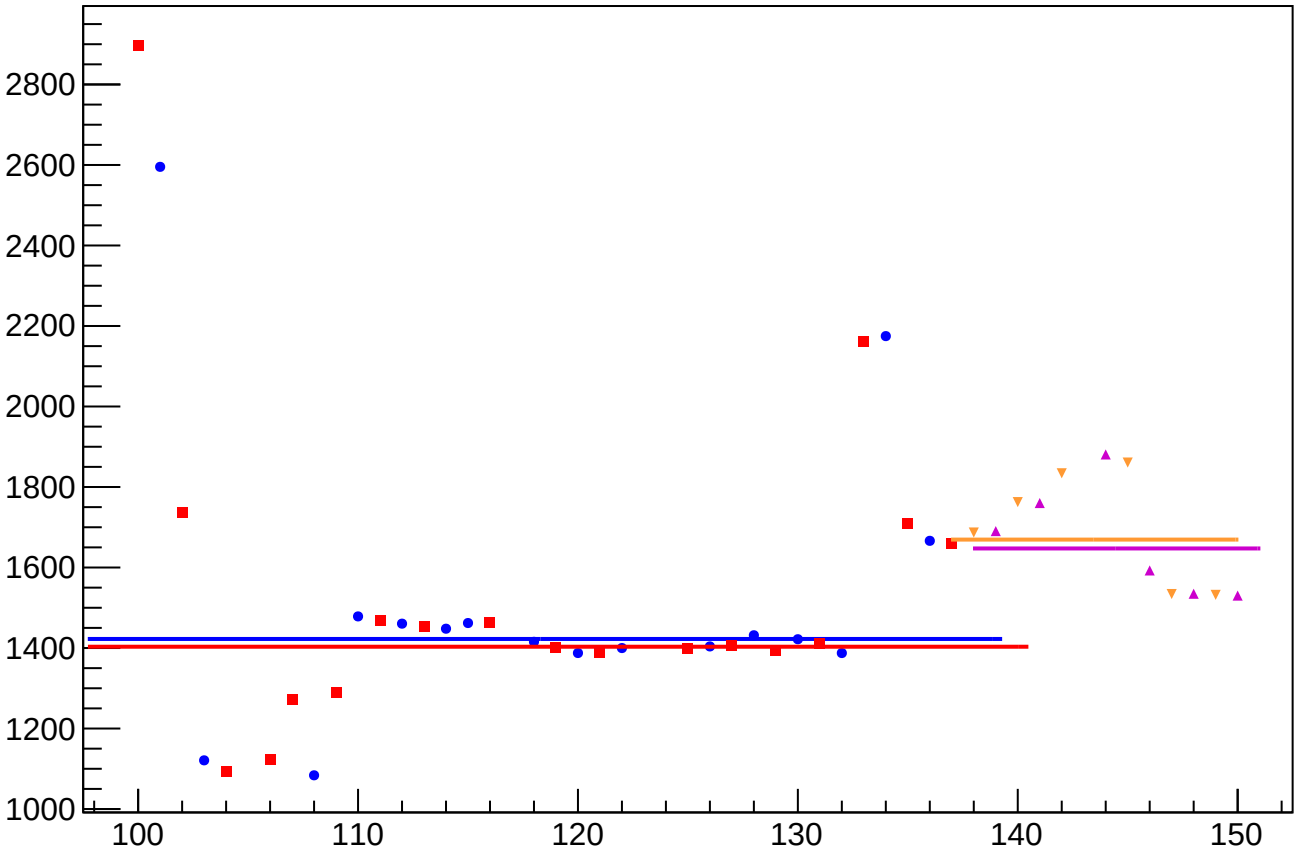
Left: -387.781+/-530.753 $\chi^2$/NDF: 15.8/11

Right: 265.381+/-379.294 $\chi^2$/NDF: 41.4/33

In: 454.013+/-431.921 $\chi^2$/NDF:22.8/21

Out: -382.363+/-441.057 $\chi^2$/NDF:33.7/23

All: 44.576+/-308.594 $\chi^2$/NDF: 58.3/45




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1669.362+/-0.556 $\chi^2$/NDF:55404.6/5

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1647.323+/-0.509 $\chi^2$/NDF:57797.8/5

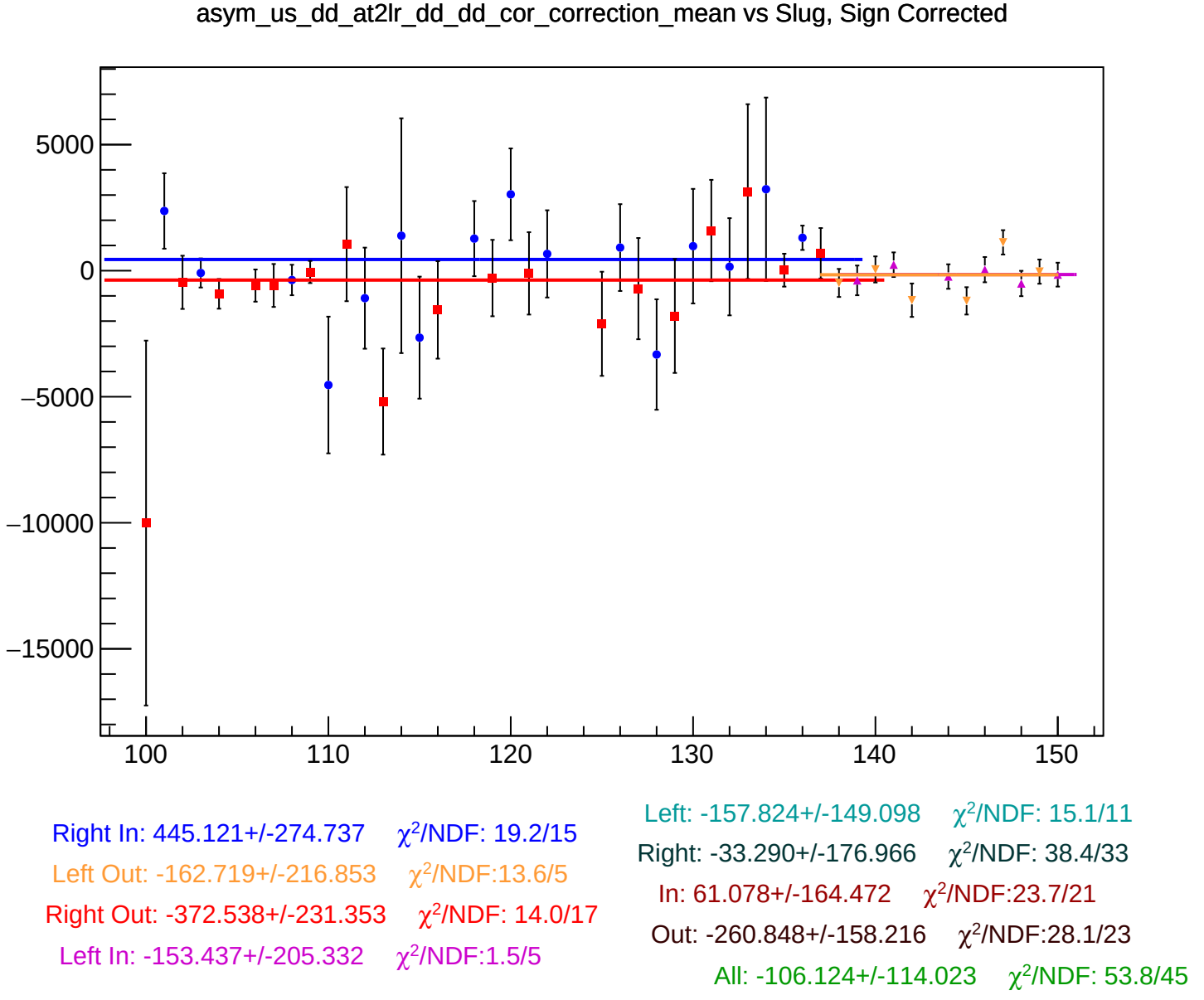
Left: 1657.370+/-0.375 $\chi^2$/NDF: 114057.9/11

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

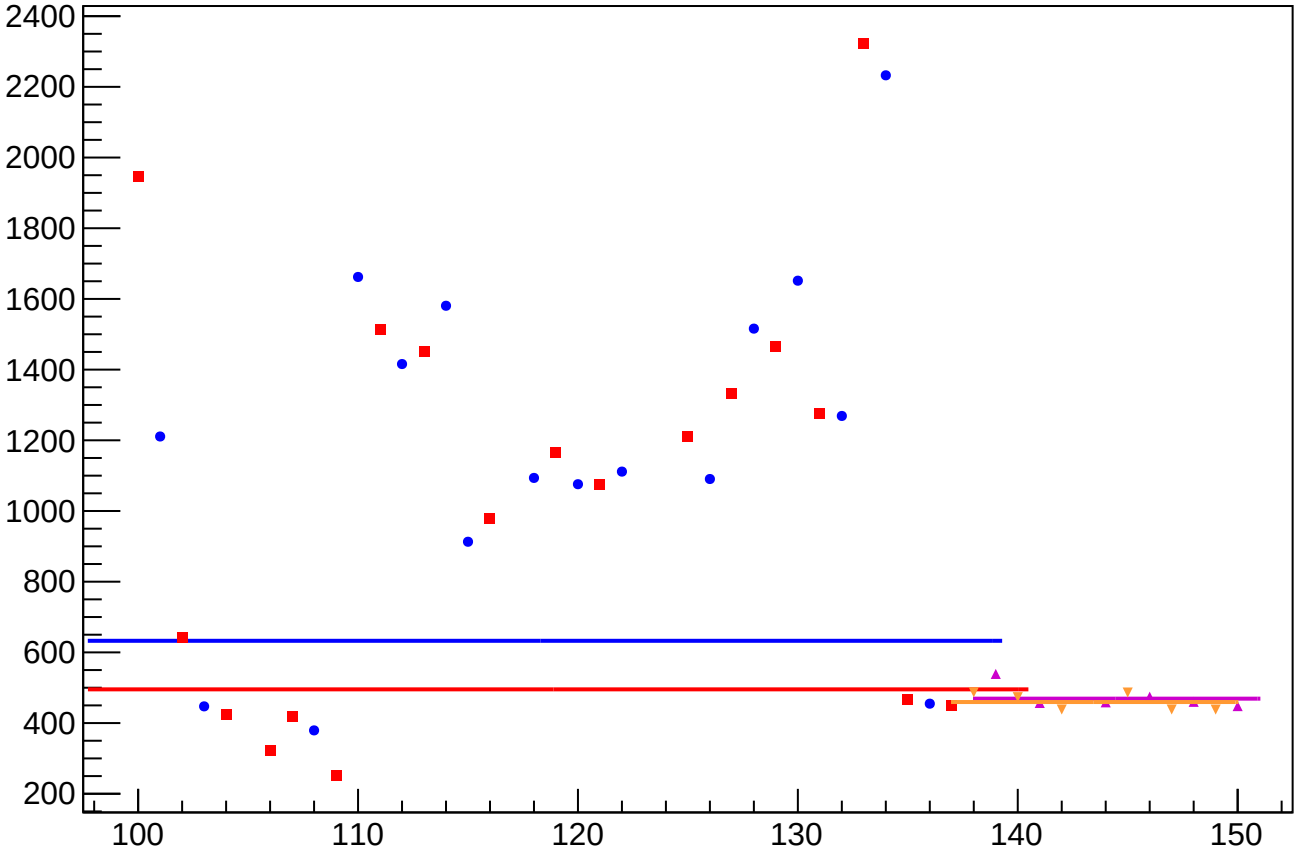
In: 1503.526+/-0.305 $\chi^2$/NDF:742944.4/21

Out: 1487.001+/-0.312 $\chi^2$/NDF:571598.9/23

All: 1495.437+/-0.218 $\chi^2$/NDF: 1315976.5/45


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
Right In: 445.121+/-274.737 χ²/NDF: 19.2/15
Left Out: -162.719+/-216.853 χ²/NDF:13.6/5
Right Out: -372.538+/-231.353 χ²/NDF: 14.0/17
Left In: -153.437+/-205.332 χ²/NDF:1.5/5
Left: -157.824+/-149.098 χ²/NDF: 15.1/11
Right: -33.290+/-176.966 χ²/NDF: 38.4/33
In: 61.078+/-164.472 χ²/NDF:23.7/21
Out: -260.848+/-158.216 χ²/NDF:28.1/23
All: -106.124+/-114.023 χ²/NDF: 53.8/45

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 632.753+/-0.194 $\chi^2$/NDF: 3767731.7/15

Left Out: 459.529+/-0.153 $\chi^2$/NDF:20990.7/5

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 469.067+/-0.145 $\chi^2$/NDF:35167.7/5

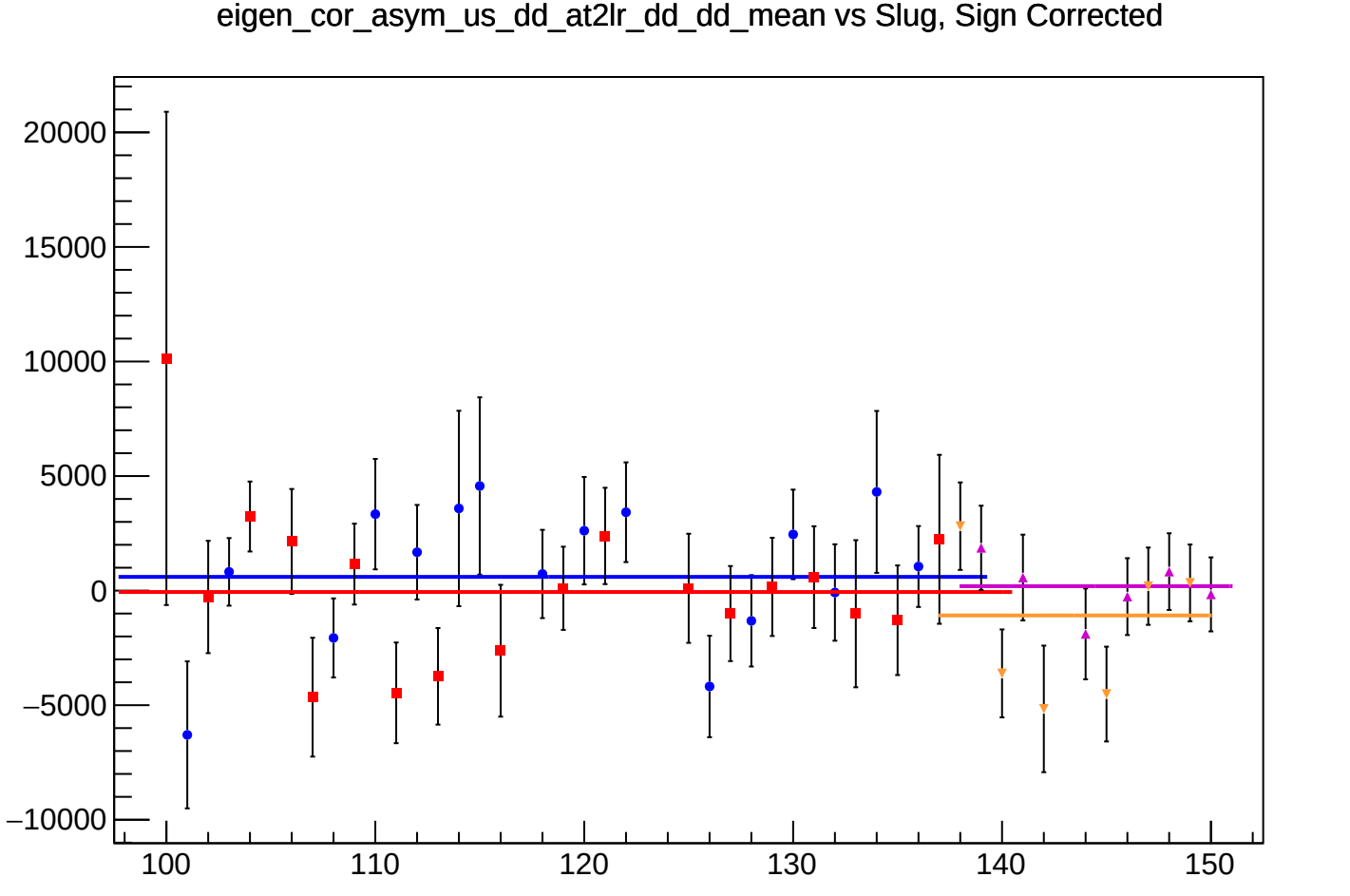
Left: 464.558+/-0.105 $\chi^2$/NDF: 58198.1/11

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 527.729+/-0.116 $\chi^2$/NDF:4258404.4/21

Out: 476.296+/-0.112 $\chi^2$/NDF:4384040.3/23

All: 501.016+/-0.081 $\chi^2$/NDF: 8744027.1/45


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
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5000
0
−5000
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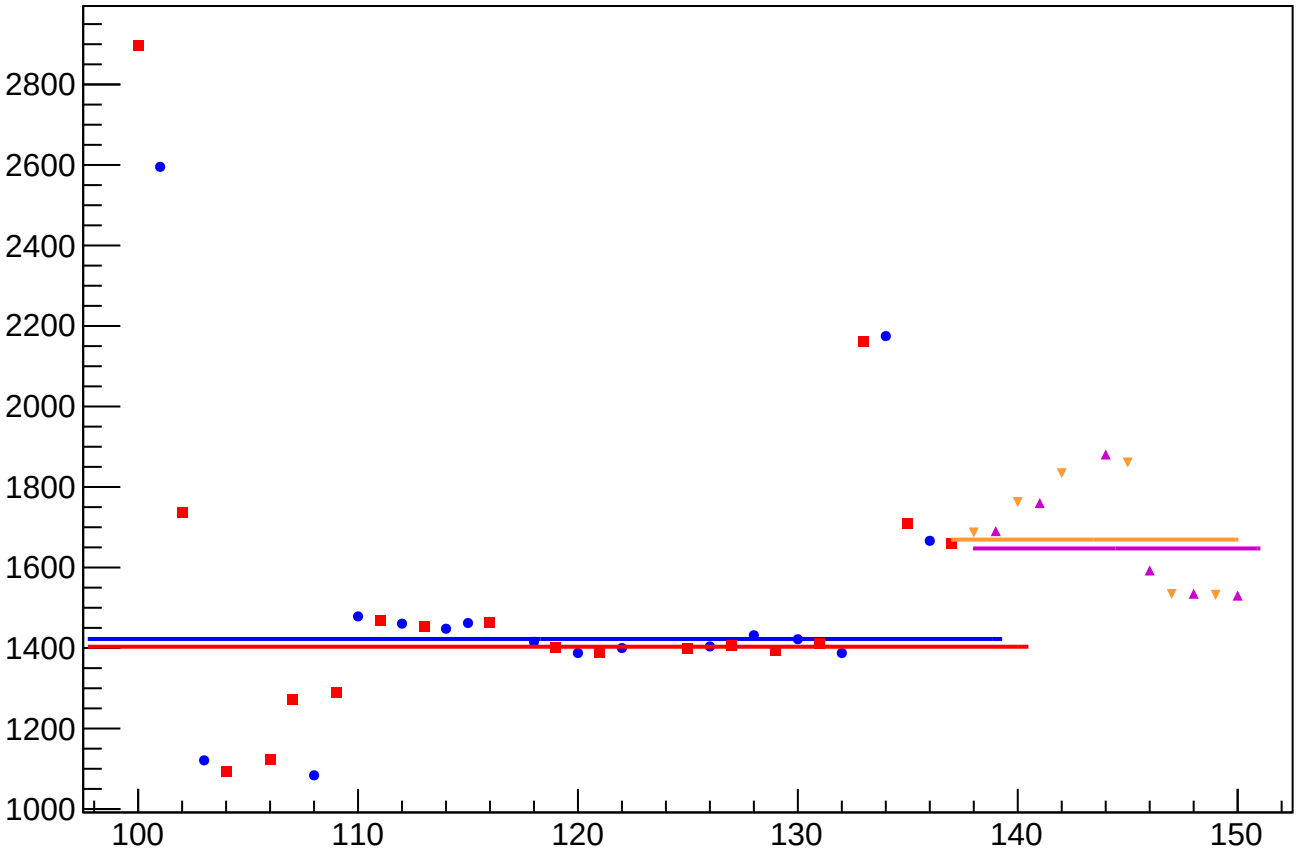
110
120
130
140
150
Right In: 600.020+/-540.053 χ²/NDF: 20.3/15
Left Out: -1083.241+/-786.099 χ²/NDF:12.1/5
Right Out: -60.361+/-532.826 χ²/NDF: 20.4/17
Left In: 194.849+/-719.511 χ²/NDF:2.2/5
Left: -387.781+/-530.753 χ²/NDF: 15.8/11
Right: 265.381+/-379.294 χ²/NDF: 41.4/33
In: 454.013+/-431.921 χ²/NDF:22.8/21
Out: -382.363+/-441.057 χ²/NDF:33.7/23
All: 44.576+/-308.594 χ²/NDF: 58.3/45




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1669.362+/-0.556 $\chi^2$/NDF:55404.6/5

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1647.323+/-0.509 $\chi^2$/NDF:57797.8/5

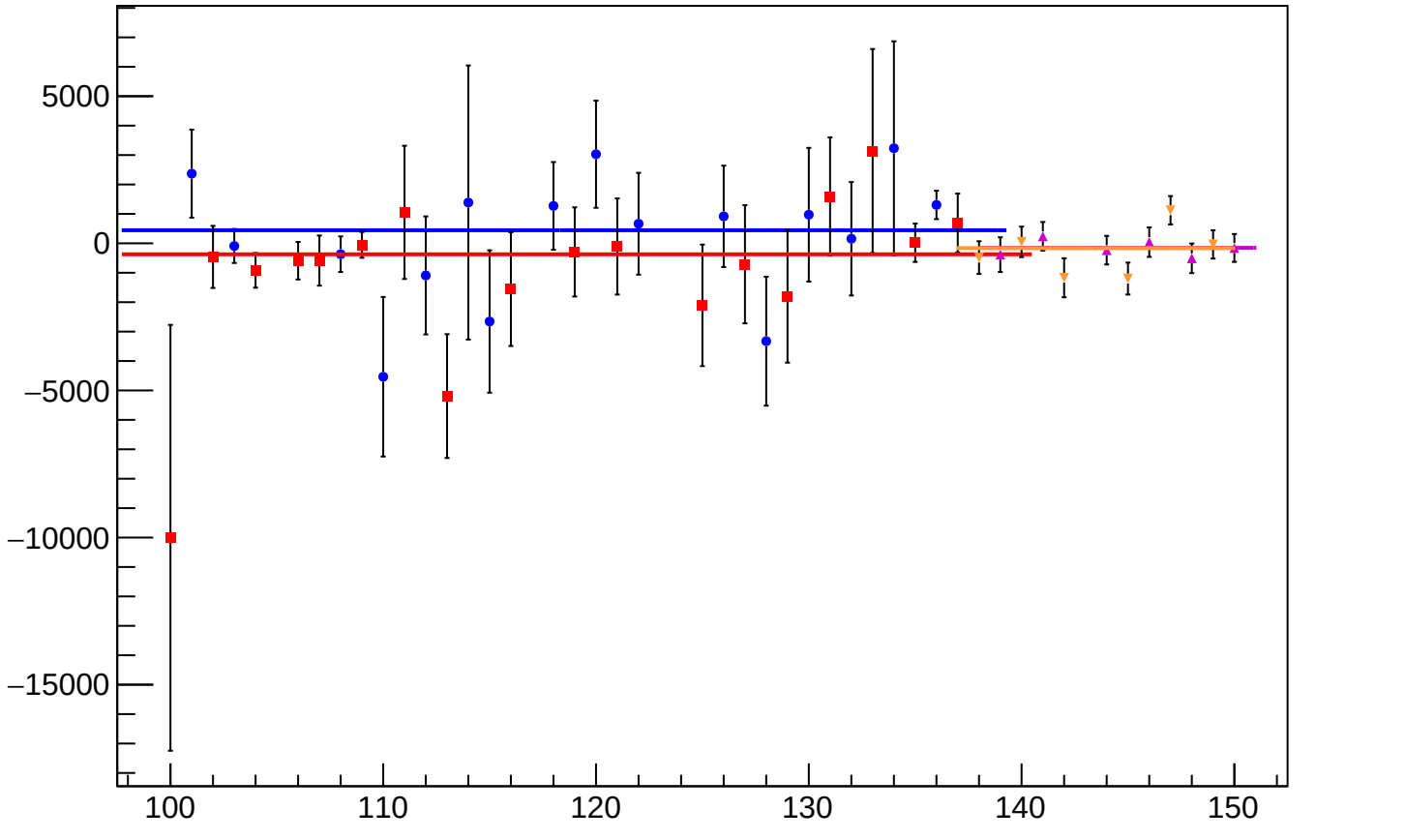
Left: 1657.370+/-0.375 $\chi^2$/NDF: 114057.9/11

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

In: 1503.526+/-0.305 $\chi^2$/NDF:742944.4/21

Out: 1487.001+/-0.312 $\chi^2$/NDF:571598.9/23

All: 1495.437+/-0.218 $\chi^2$/NDF: 1315976.5/45




Right In: 445.121+/-274.737 $\chi^2$/NDF: 19.2/15

Left Out: -162.719+/-216.853 $\chi^2$/NDF:13.6/5

Right Out: -372.538+/-231.353 $\chi^2$/NDF: 14.0/17

Left In: -153.437+/-205.332 $\chi^2$/NDF:1.5/5

Left: -157.824+/-149.098 $\chi^2$/NDF: 15.1/11

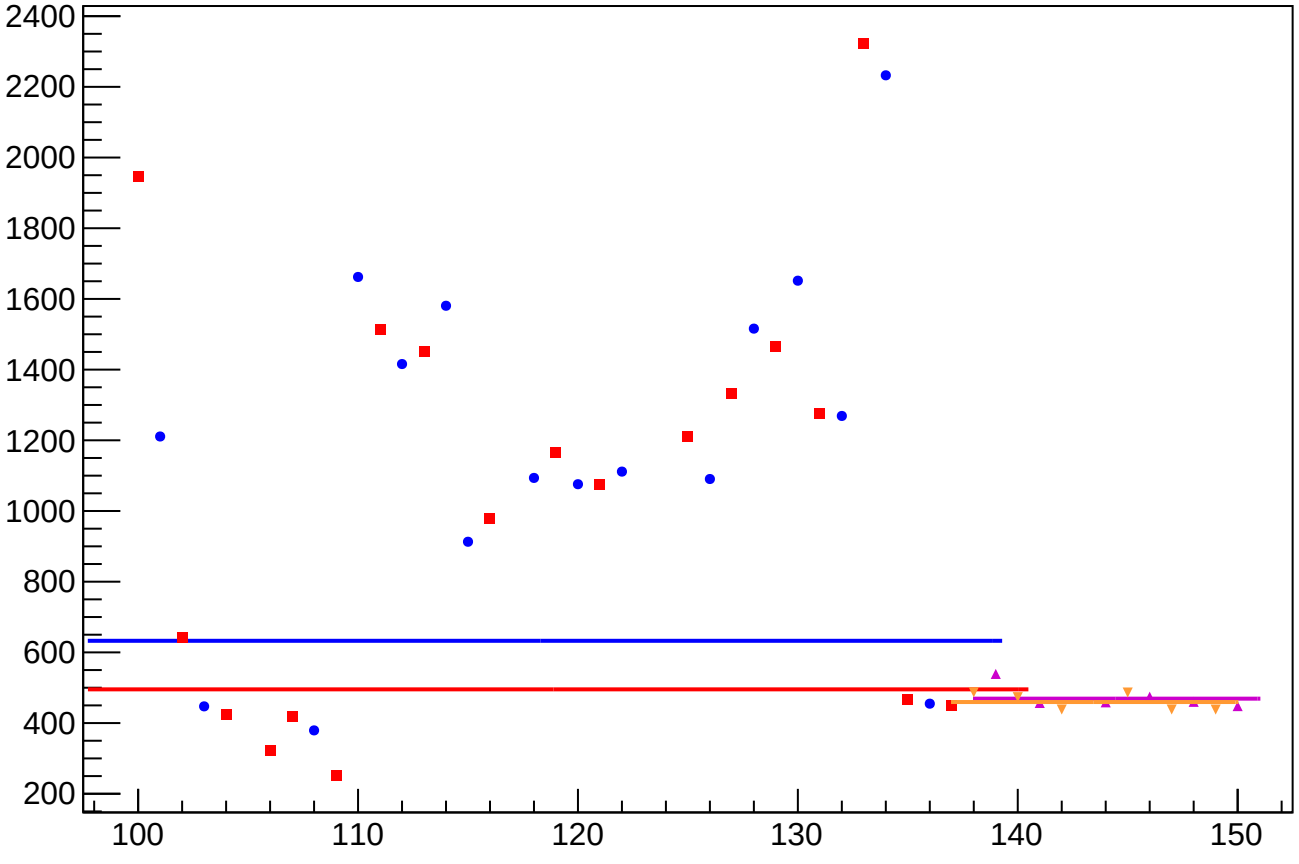
Right: -33.290+/-176.966 $\chi^2$/NDF: 38.4/33

In: 61.078+/-164.472 $\chi^2$/NDF:23.7/21

Out: -260.848+/-158.216 $\chi^2$/NDF:28.1/23

All: -106.124+/-114.023 $\chi^2$/NDF: 53.8/45

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 632.753+/-0.194 $\chi^2$/NDF: 3767731.7/15

Left Out: 459.529+/-0.153 $\chi^2$/NDF:20990.7/5

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 469.067+/-0.145 $\chi^2$/NDF:35167.7/5

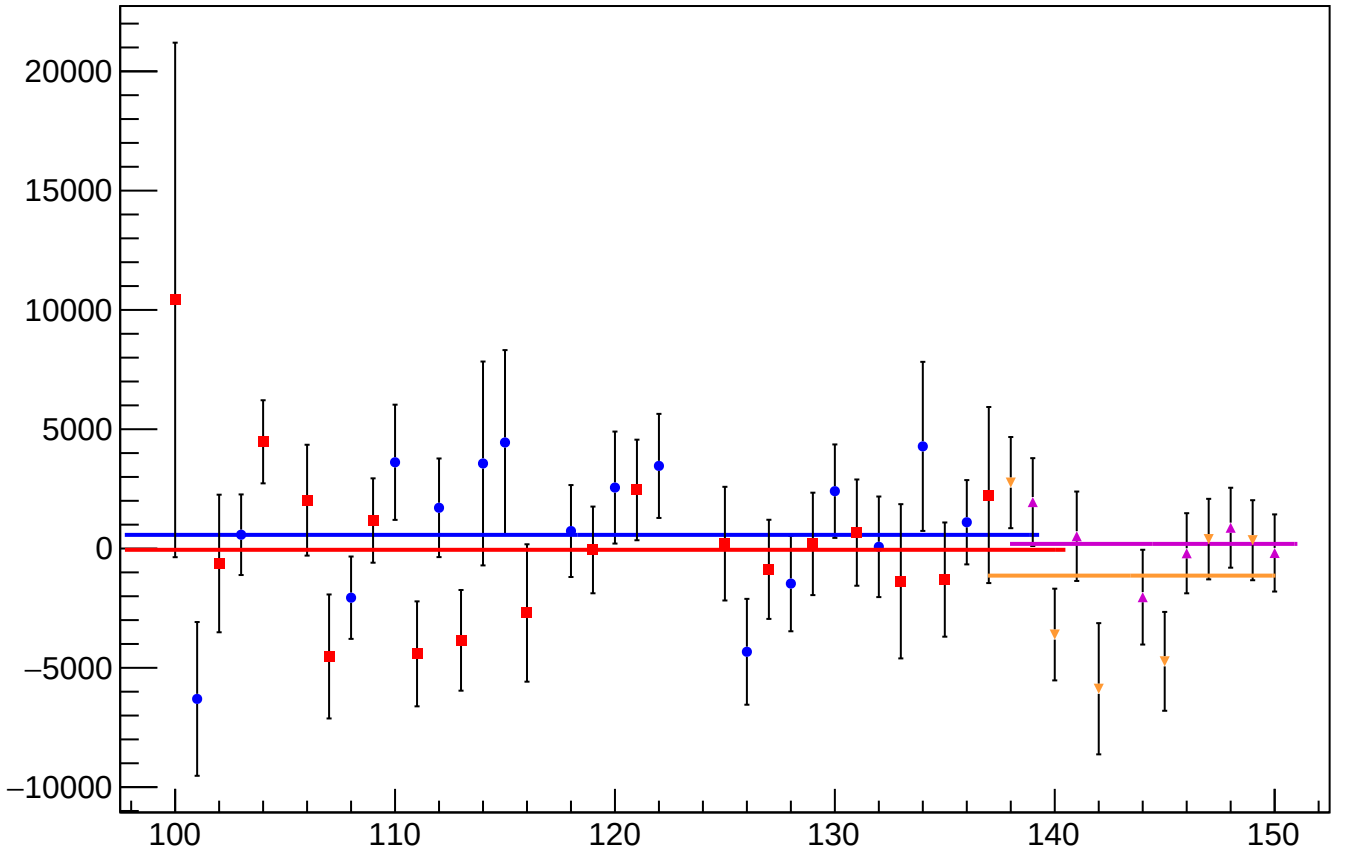
Left: 464.558+/-0.105 $\chi^2$/NDF: 58198.1/11

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 527.729+/-0.116 $\chi^2$/NDF:4258404.4/21

Out: 476.296+/-0.112 $\chi^2$/NDF:4384040.3/23

All: 501.016+/-0.081 $\chi^2$/NDF: 8744027.1/45


dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
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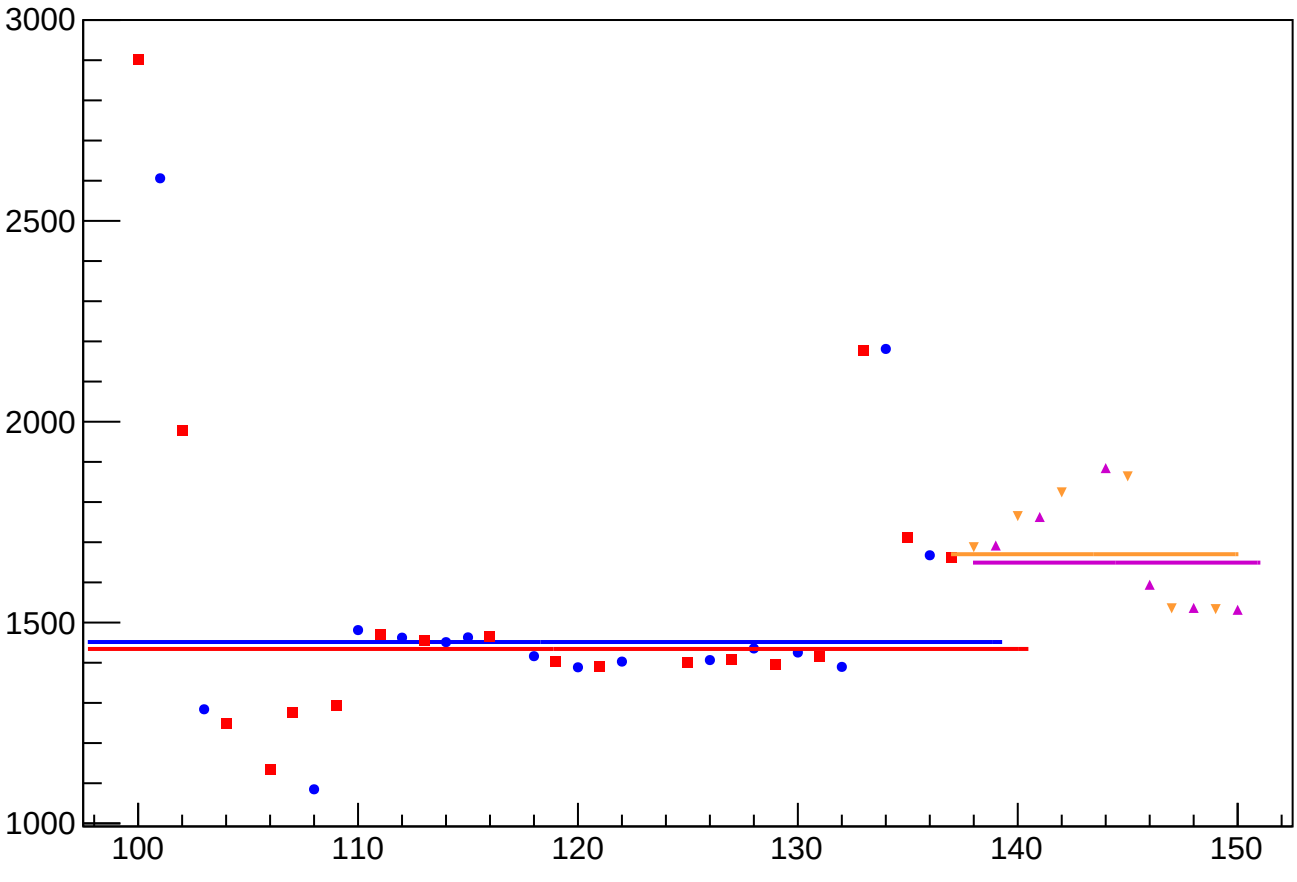
−5000
−10000
100
110
120
130
140
150
Right In: 572.289+/-549.638 χ²/NDF: 20.8/15
Left Out: -1135.376+/-786.554 χ²/NDF:13.4/5
Right Out: -53.754+/-545.353 χ²/NDF: 22.5/17
Left In: 194.214+/-720.368 χ²/NDF:2.5/5
Left: -412.297+/-531.238 χ²/NDF: 17.4/11
Right: 256.817+/-387.129 χ²/NDF: 43.9/33
In: 433.175+/-436.970 χ²/NDF:23.4/21
Out: -404.909+/-448.167 χ²/NDF:37.2/23
All: 24.734+/-312.868 χ²/NDF: 62.4/45




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.7/15

Left Out: 1670.182+/-0.556 $\chi^2$/NDF:54819.2/5

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1649.233+/-0.509 $\chi^2$/NDF:58256.6/5

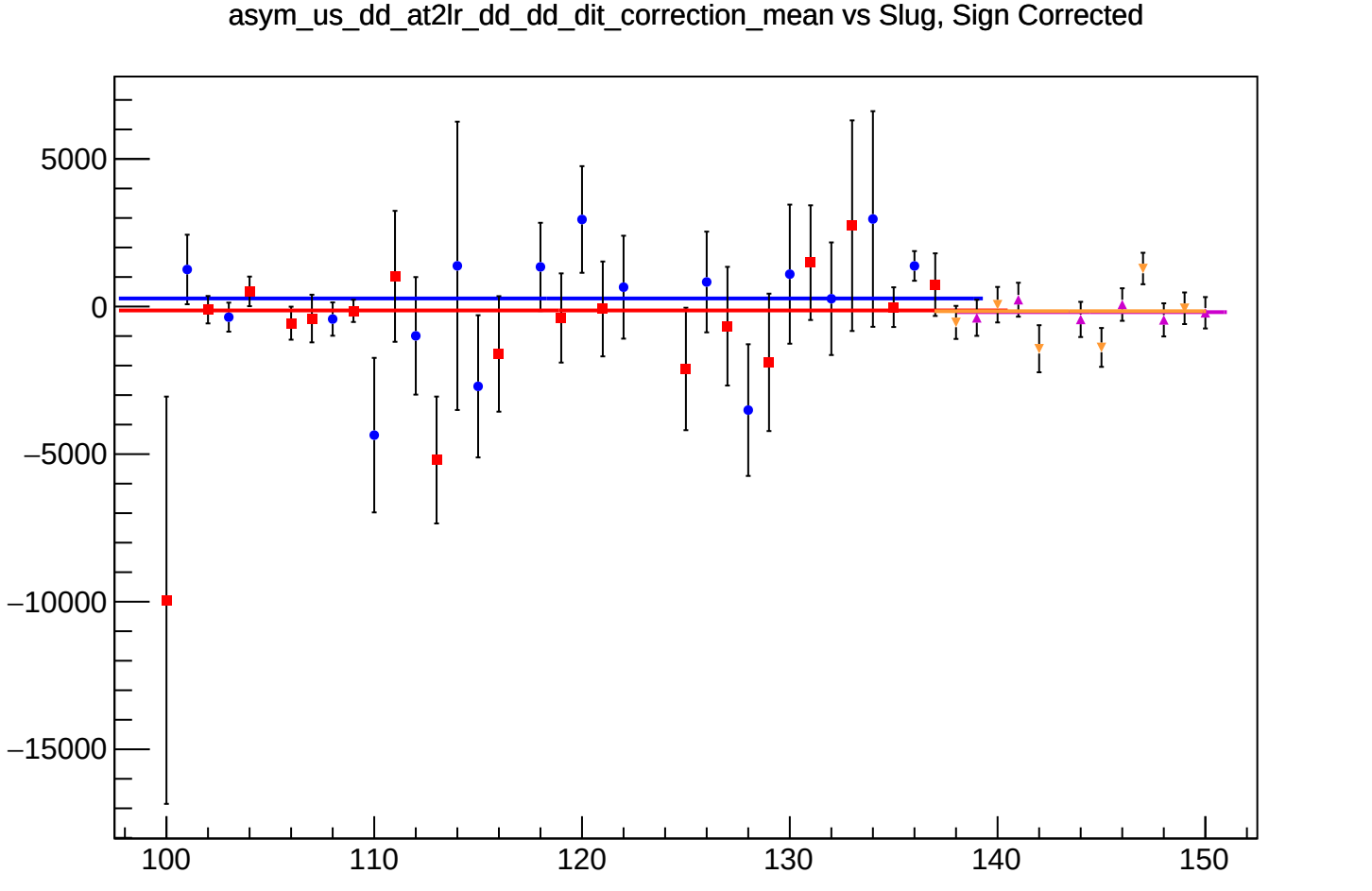
Left: 1658.790+/-0.376 $\chi^2$/NDF: 113847.4/11

Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.7/33

In: 1524.307+/-0.309 $\chi^2$/NDF:641259.6/21

Out: 1510.895+/-0.317 $\chi^2$/NDF:504863.5/23

All: 1517.770+/-0.221 $\chi^2$/NDF: 1147041.3/45




Right In: 273.439+/-260.537 $\chi^2$/NDF: 20.2/15

Left Out: -158.197+/-243.765 $\chi^2$/NDF:14.0/5

Right Out: -132.573+/-195.933 $\chi^2$/NDF: 14.4/17

Left In: -189.875+/-232.410 $\chi^2$/NDF:1.2/5

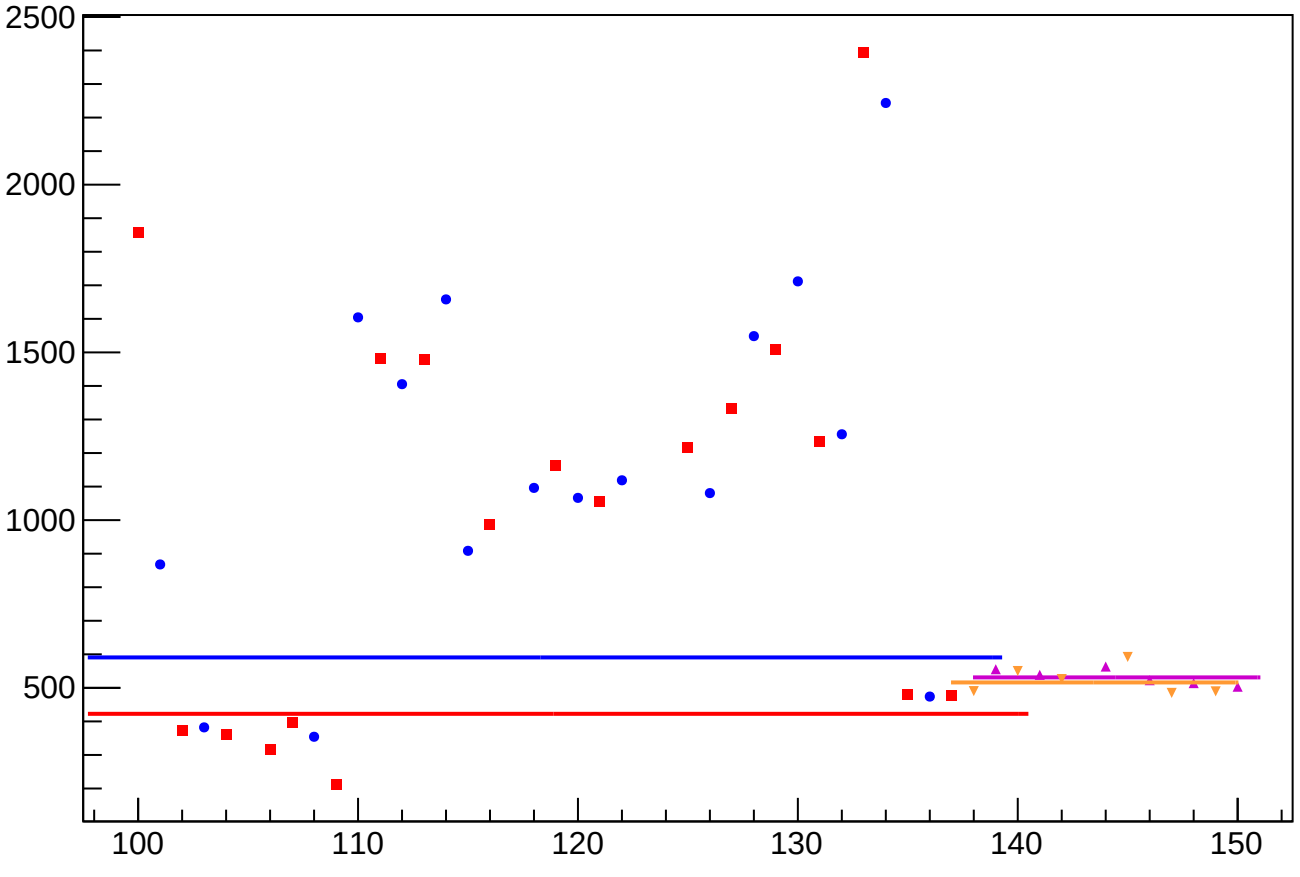
Left: -174.791+/-168.210 $\chi^2$/NDF: 15.2/11

Right: 14.100+/-156.593 $\chi^2$/NDF: 36.2/33

In: 15.432+/-173.433 $\chi^2$/NDF:23.2/21

Out: -142.630+/-152.716 $\chi^2$/NDF:28.4/23

All: -73.599+/-114.615 $\chi^2$/NDF: 52.1/45




Right In: 590.749+/-0.184 $\chi^2$/NDF: 3885502.1/15

Left Out: 516.181+/-0.172 $\chi^2$/NDF:49370.3/5

Right Out: 422.629+/-0.139 $\chi^2$/NDF: 4858014.6/17

Left In: 531.214+/-0.164 $\chi^2$/NDF:17134.2/5

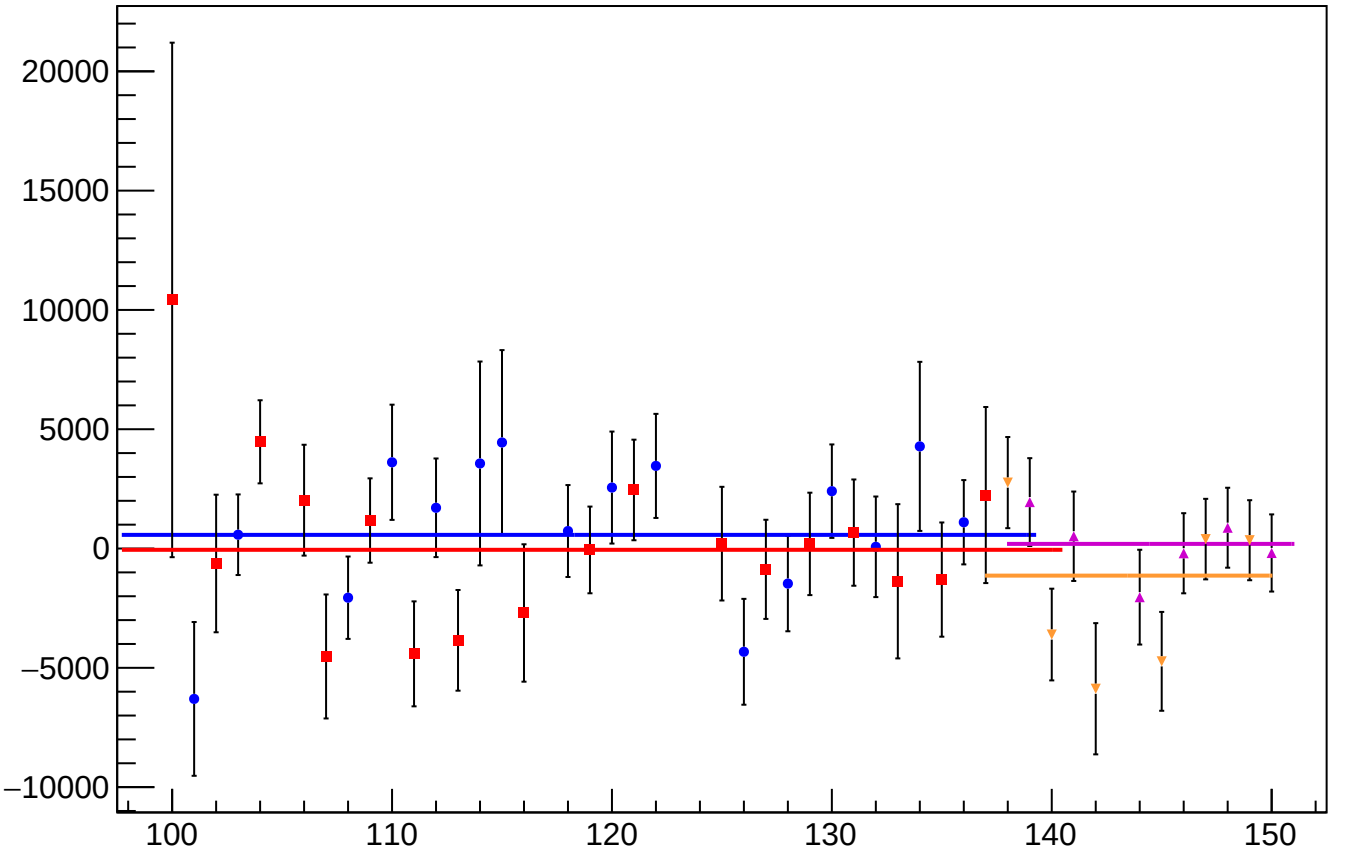
Left: 524.056+/-0.119 $\chi^2$/NDF: 70489.2/11

Right: 483.362+/-0.111 $\chi^2$/NDF: 9275456.5/33

In: 557.596+/-0.123 $\chi^2$/NDF:3960791.8/21

Out: 459.347+/-0.108 $\chi^2$/NDF:5086341.5/23

All: 502.255+/-0.081 $\chi^2$/NDF: 9408651.9/45


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
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−5000
−10000
100
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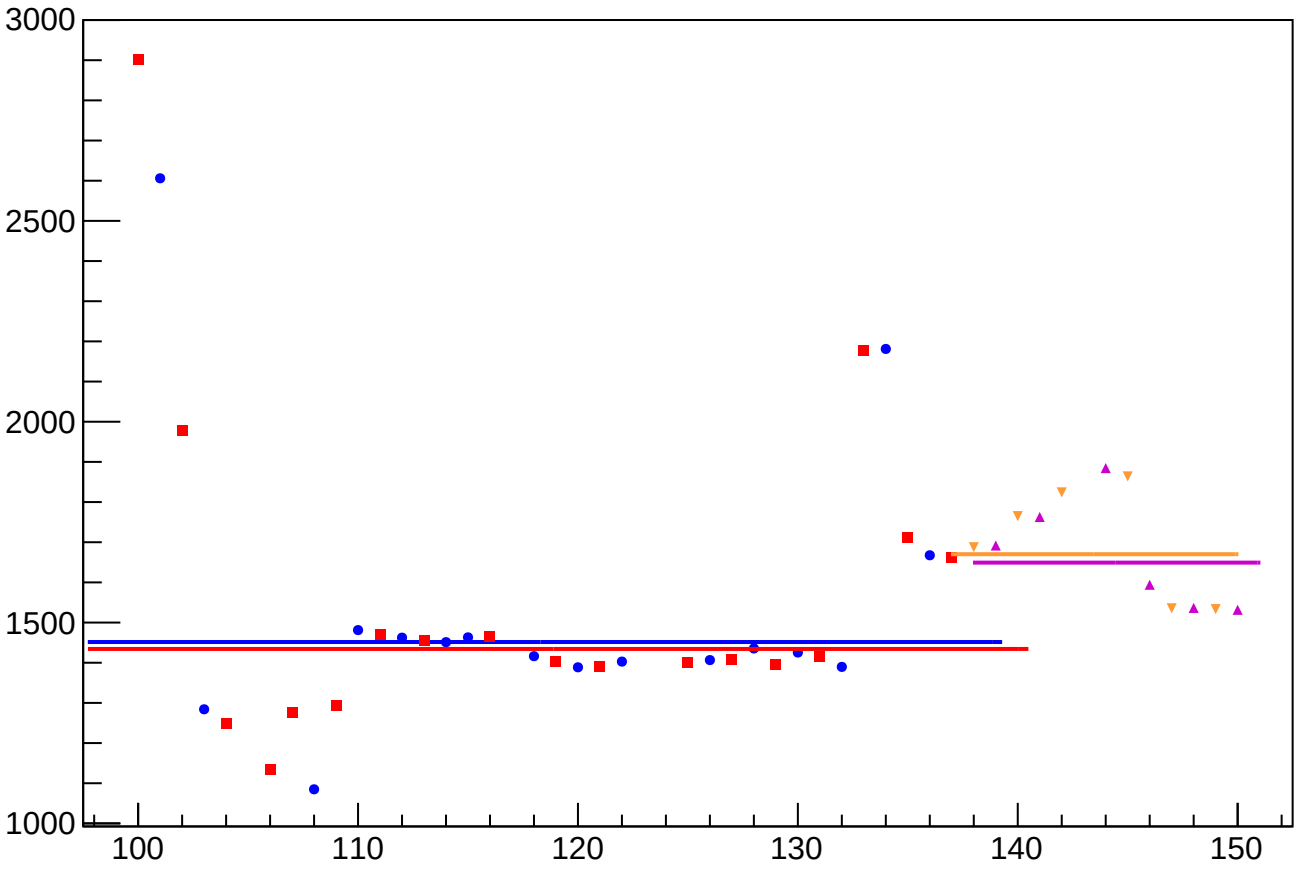
140
150
Right In: 572.290+/-549.638 χ²/NDF: 20.8/15
Left Out: -1135.385+/-786.554 χ²/NDF:13.4/5
Right Out: -53.752+/-545.353 χ²/NDF: 22.5/17
Left In: 194.209+/-720.368 χ²/NDF:2.5/5
Left: -412.303+/-531.238 χ²/NDF: 17.4/11
Right: 256.819+/-387.129 χ²/NDF: 43.9/33
In: 433.174+/-436.969 χ²/NDF:23.4/21
Out: -404.910+/-448.167 χ²/NDF:37.2/23
All: 24.732+/-312.868 χ²/NDF: 62.4/45




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.2/15

Left Out: 1670.182+/-0.556 $\chi^2$/NDF:54819.4/5

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1649.233+/-0.509 $\chi^2$/NDF:58256.8/5

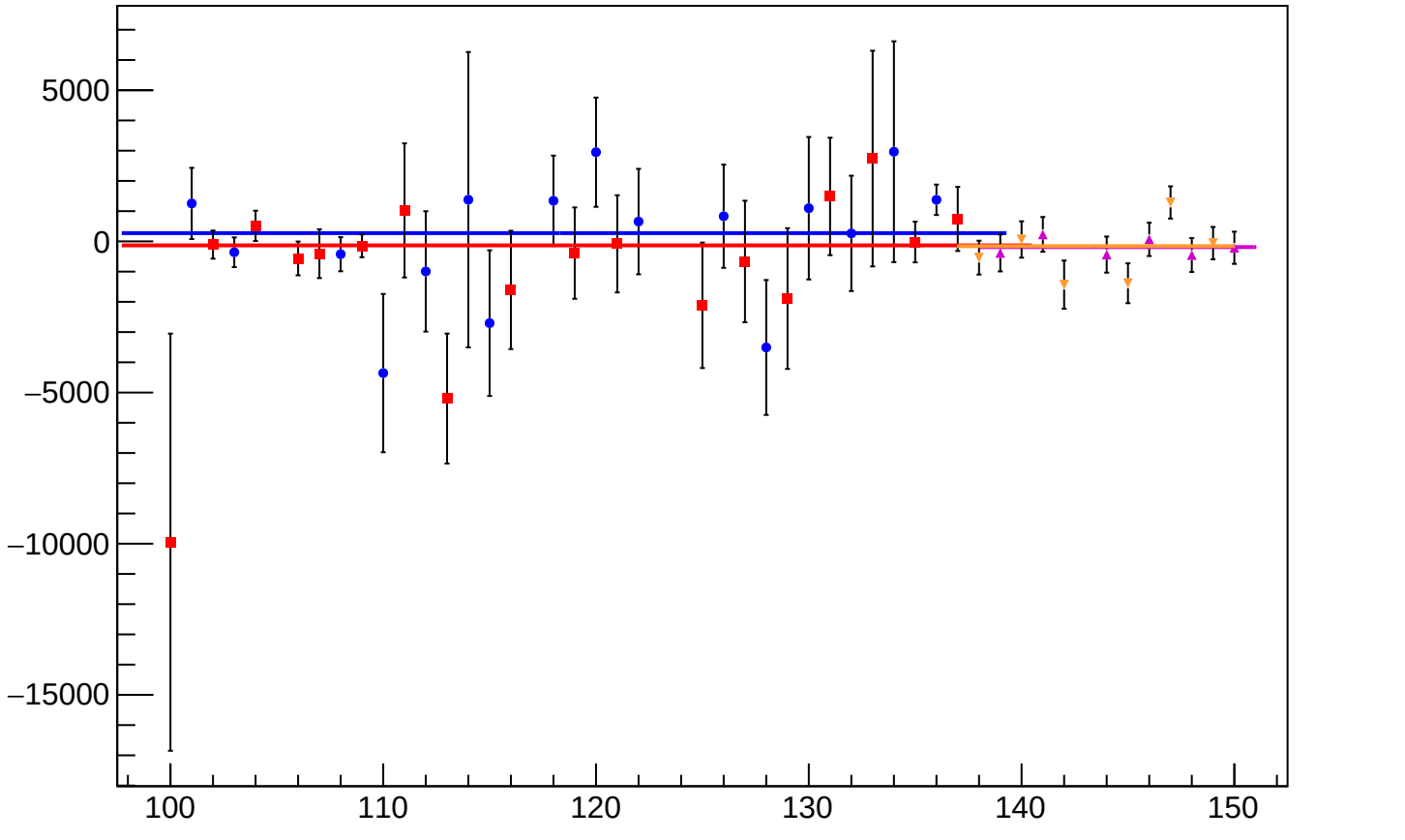
Left: 1658.789+/-0.376 $\chi^2$/NDF: 113847.8/11

Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.3/33

In: 1524.307+/-0.309 $\chi^2$/NDF:641259.2/21

Out: 1510.895+/-0.317 $\chi^2$/NDF:504863.9/23

All: 1517.770+/-0.221 $\chi^2$/NDF: 1147041.3/45




Right In: 273.429+/-260.536 $\chi^2$/NDF: 20.2/15

Left Out: -158.188+/-243.767 $\chi^2$/NDF:14.0/5

Right Out: -132.567+/-195.935 $\chi^2$/NDF: 14.4/17

Left In: -189.881+/-232.410 $\chi^2$/NDF:1.2/5

Left: -174.790+/-168.210 $\chi^2$/NDF: 15.2/11

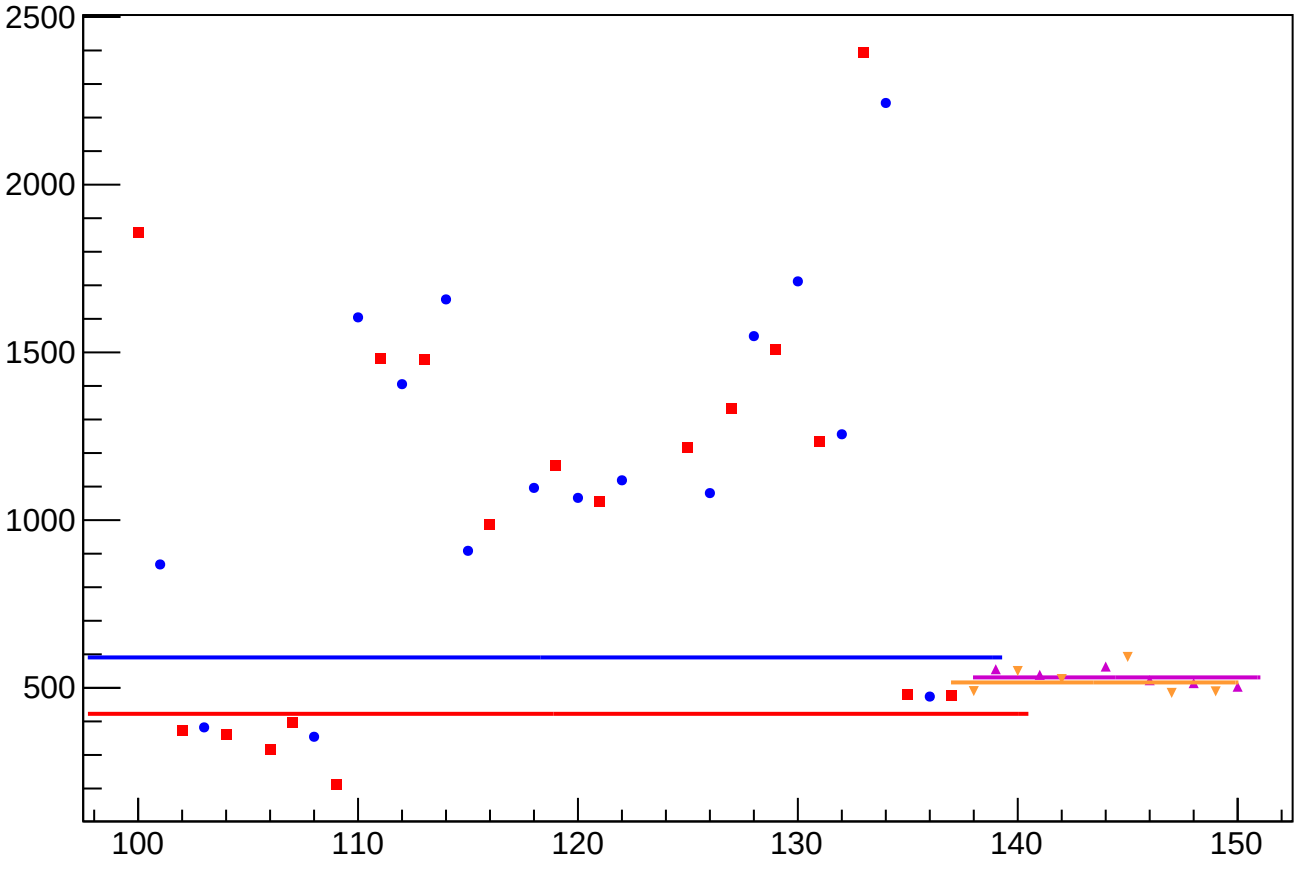
Right: 14.101+/-156.594 $\chi^2$/NDF: 36.2/33

In: 15.425+/-173.433 $\chi^2$/NDF:23.2/21

Out: -142.623+/-152.718 $\chi^2$/NDF:28.4/23

All: -73.597+/-114.616 $\chi^2$/NDF: 52.1/45

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 590.747+/-0.184 $\chi^2$/NDF: 3885530.6/15

Left Out: 516.185+/-0.172 $\chi^2$/NDF:49373.0/5

Right Out: 422.634+/-0.139 $\chi^2$/NDF: 4857932.7/17

Left In: 531.215+/-0.164 $\chi^2$/NDF:17147.0/5

Left: 524.058+/-0.119 $\chi^2$/NDF: 70502.7/11

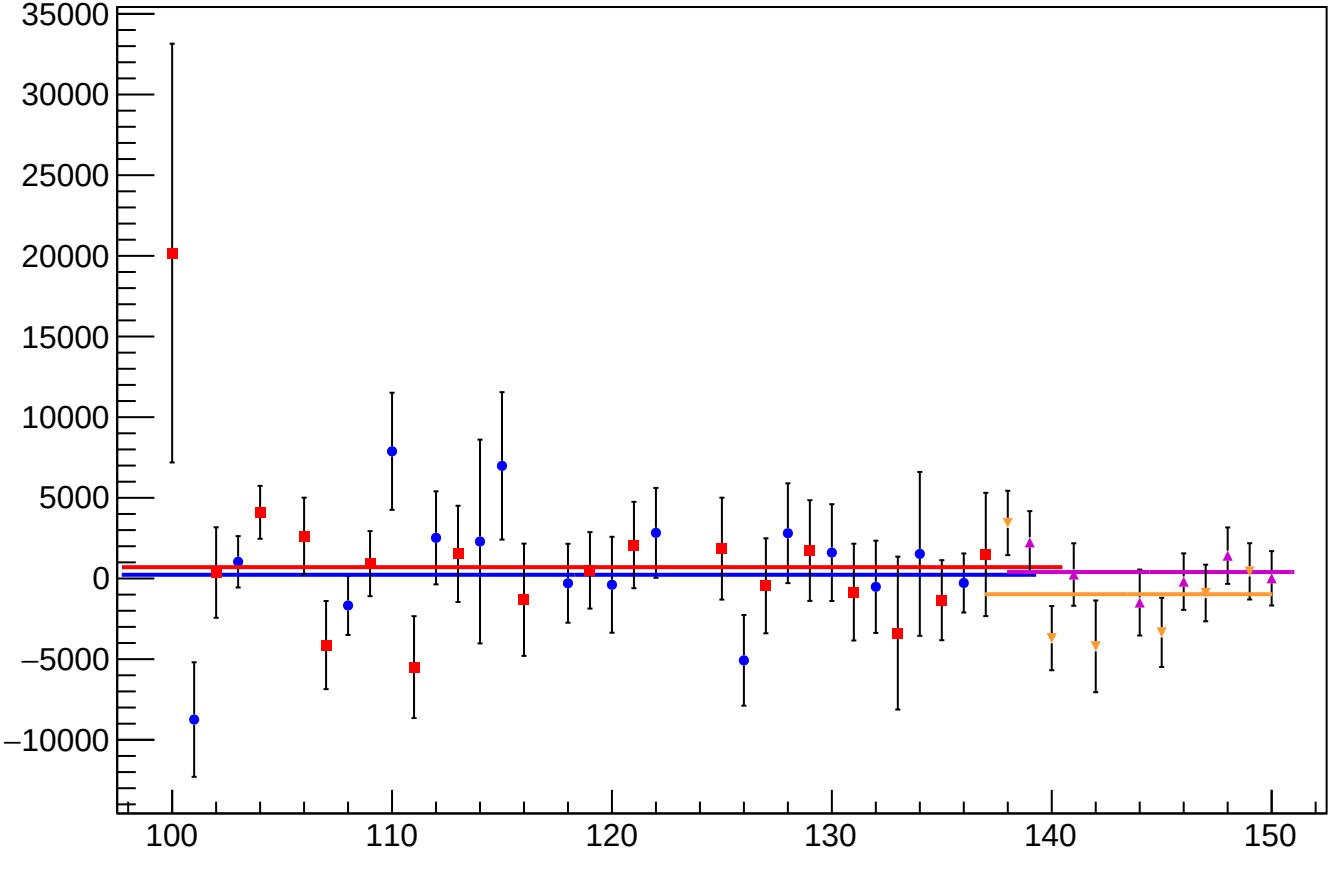
Right: 483.366+/-0.111 $\chi^2$/NDF: 9275354.4/33

In: 557.595+/-0.123 $\chi^2$/NDF:3960828.5/21

Out: 459.352+/-0.108 $\chi^2$/NDF:5086255.1/23

All: 502.259+/-0.081 $\chi^2$/NDF: 9408559.0/45

# asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected




Right In: 230.761+/-666.241 $\chi^2$/NDF: 20.7/15

Left Out: -974.874+/-816.902 $\chi^2$/NDF:9.9/5

Right Out: 702.268+/-648.319 $\chi^2$/NDF: 17.0/17

Left In: 399.751+/-749.767 $\chi^2$/NDF:2.3/5

Left: -228.763+/-552.377 $\chi^2$/NDF: 13.8/11

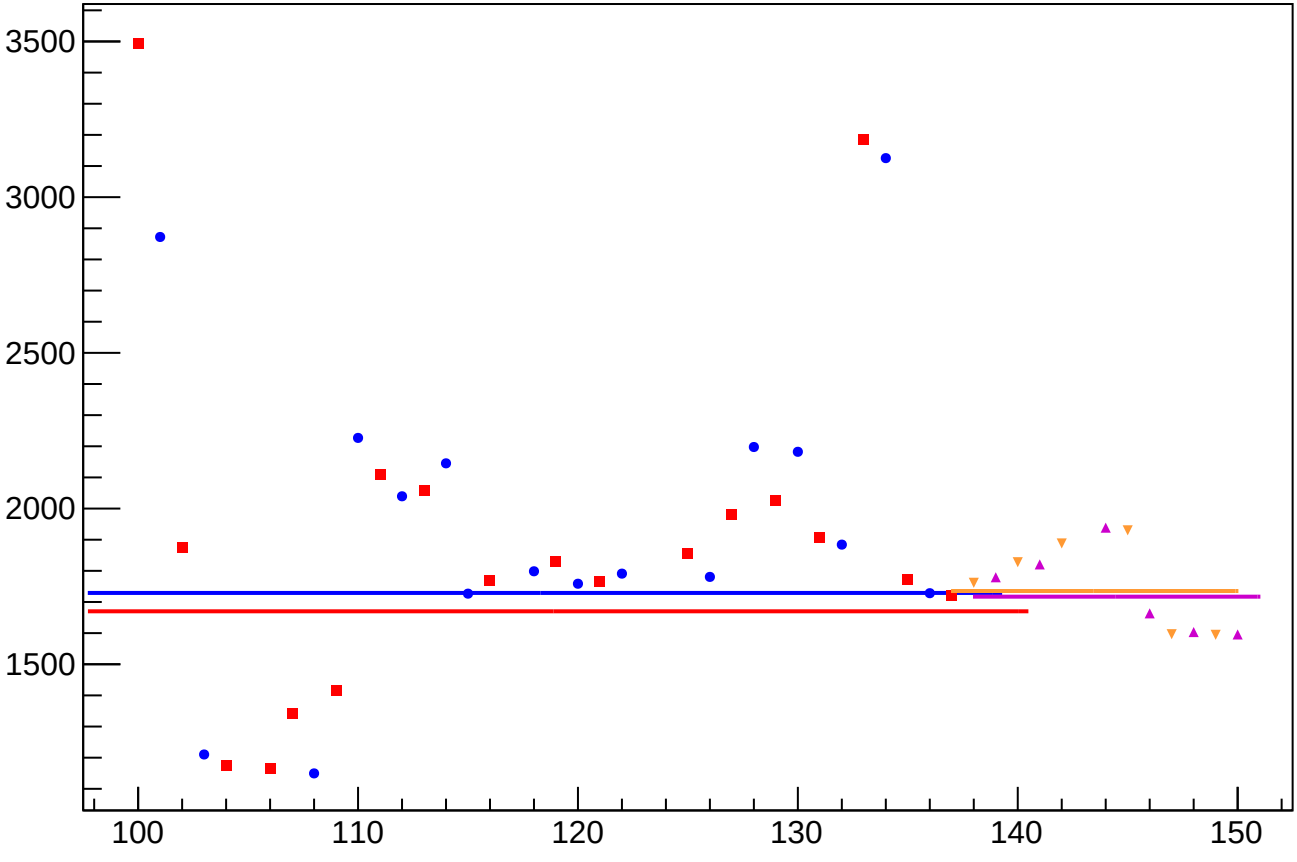
Right: 472.942+/-464.638 $\chi^2$/NDF: 38.0/33

In: 305.322+/-498.027 $\chi^2$/NDF:23.0/21

Out: 54.142+/-507.826 $\chi^2$/NDF:29.6/23

All: 182.179+/-355.572 $\chi^2$/NDF: 52.7/45

# asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected




Right In: 1729.050+/-0.471 $\chi^2$/NDF: 942079.1/15

Left Out: 1735.211+/-0.578 $\chi^2$/NDF:52463.3/5

Right Out: 1670.056+/-0.458 $\chi^2$/NDF: 744452.0/17

Left In: 1717.066+/-0.530 $\chi^2$/NDF:52026.2/5

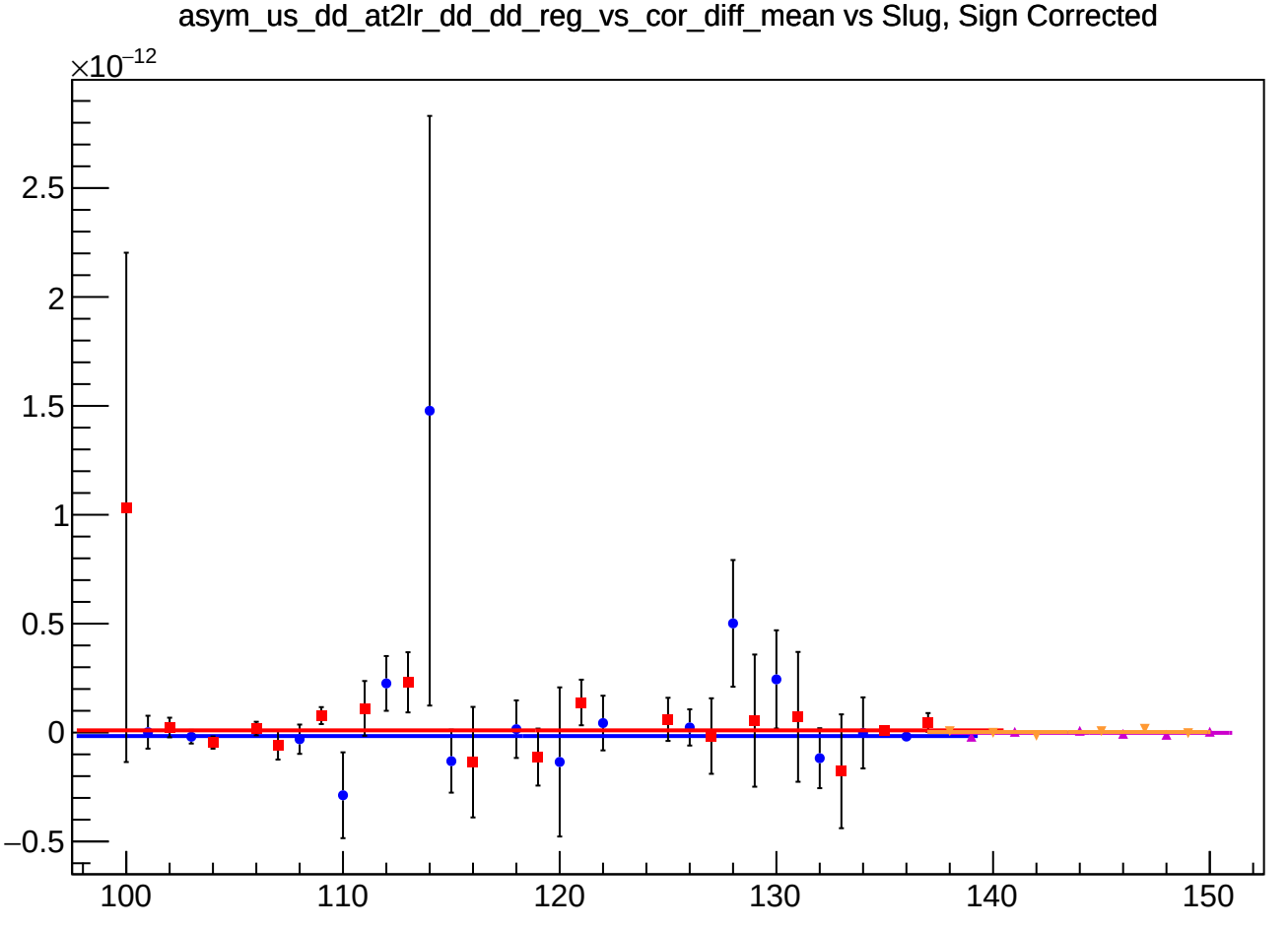
Left: 1725.362+/-0.391 $\chi^2$/NDF: 105025.1/11

Right: 1698.749+/-0.329 $\chi^2$/NDF: 1694585.4/33

In: 1723.762+/-0.352 $\chi^2$/NDF:994390.8/21

Out: 1695.235+/-0.359 $\chi^2$/NDF:804721.5/23

All: 1709.776+/-0.251 $\chi^2$/NDF: 1802329.5/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.4/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.5/5

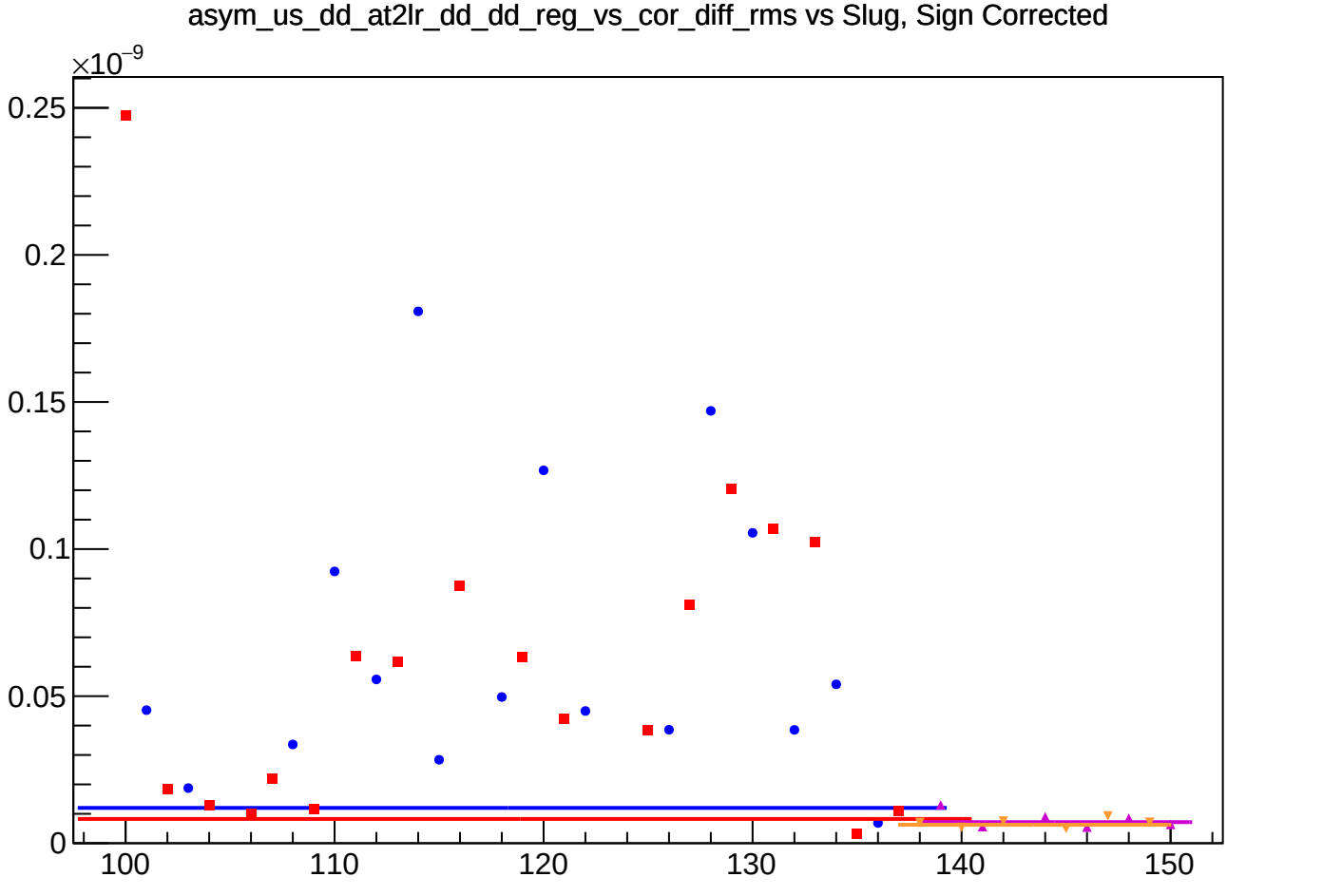
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:17.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:19.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 38.7/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3425893.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:147805.7/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3510130.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:384091.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 564354.9/11

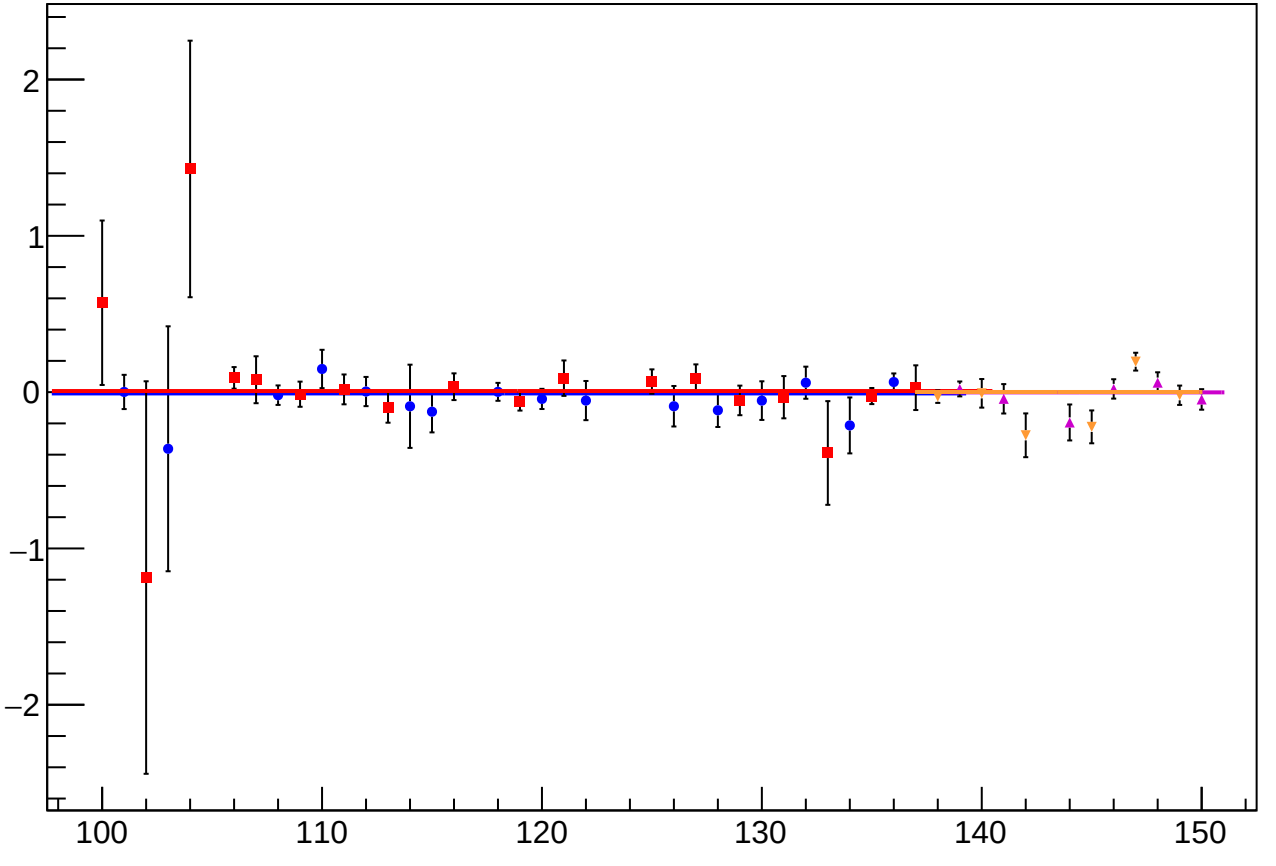
Right: 0.000+/-0.000 $\chi^2$/NDF: 7091803.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:4169886.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3736072.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7997072.1/45

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.001+/-0.026 $\chi^2$/NDF:20.7/5

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.002+/-0.027 $\chi^2$/NDF:4.7/5

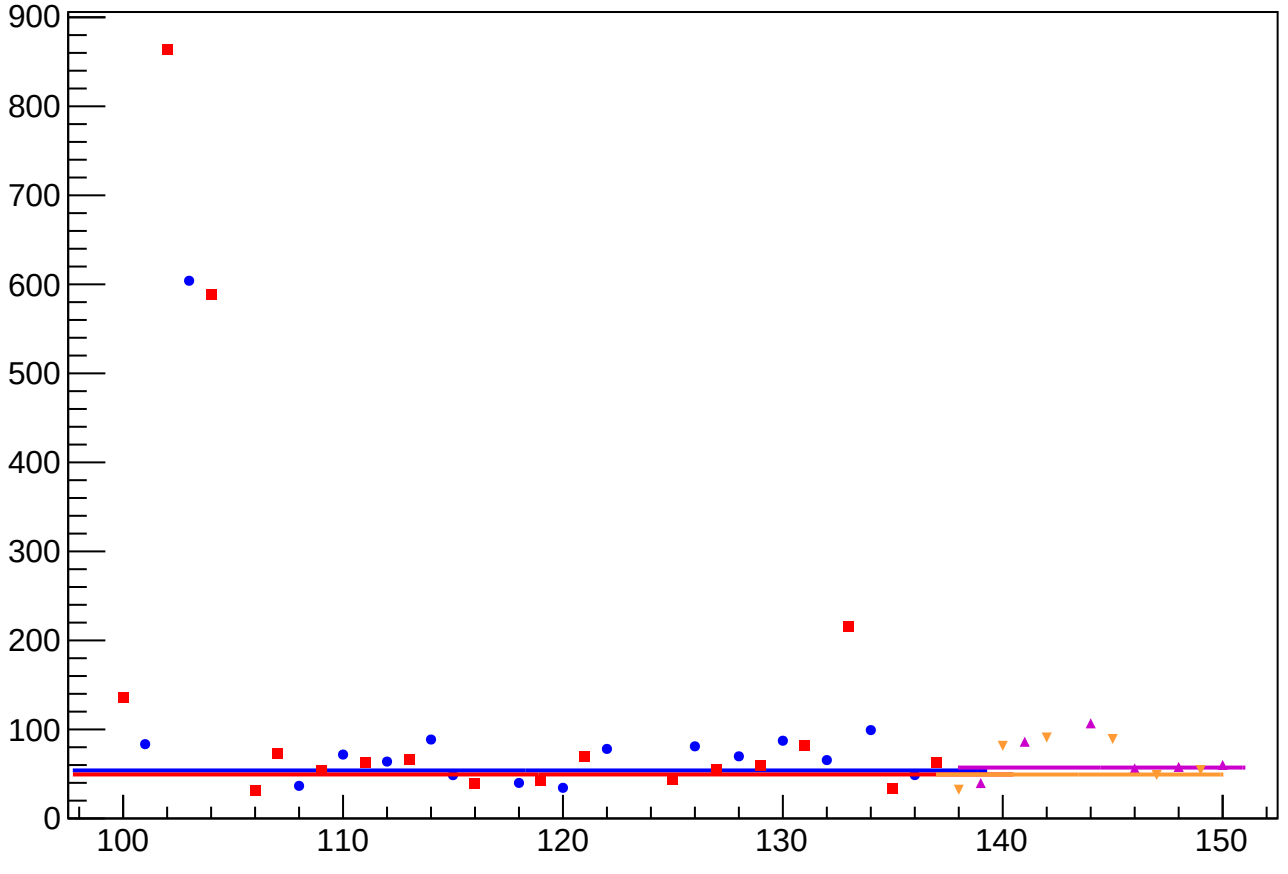
Left: -0.000+/-0.019 $\chi^2$/NDF: 25.4/11

Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.005+/-0.018 $\chi^2$/NDF:13.0/21

Out: 0.005+/-0.017 $\chi^2$/NDF:34.4/23

All: -0.000+/-0.012 $\chi^2$/NDF: 47.6/45




Right In: 53.926+/-0.016 $\chi^2$/NDF: 2214348.1/15

Left Out: 49.347+/-0.019 $\chi^2$/NDF:1090829.4/5

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 57.158+/-0.019 $\chi^2$/NDF:834913.1/5

Left: 53.104+/-0.013 $\chi^2$/NDF: 2011243.8/11

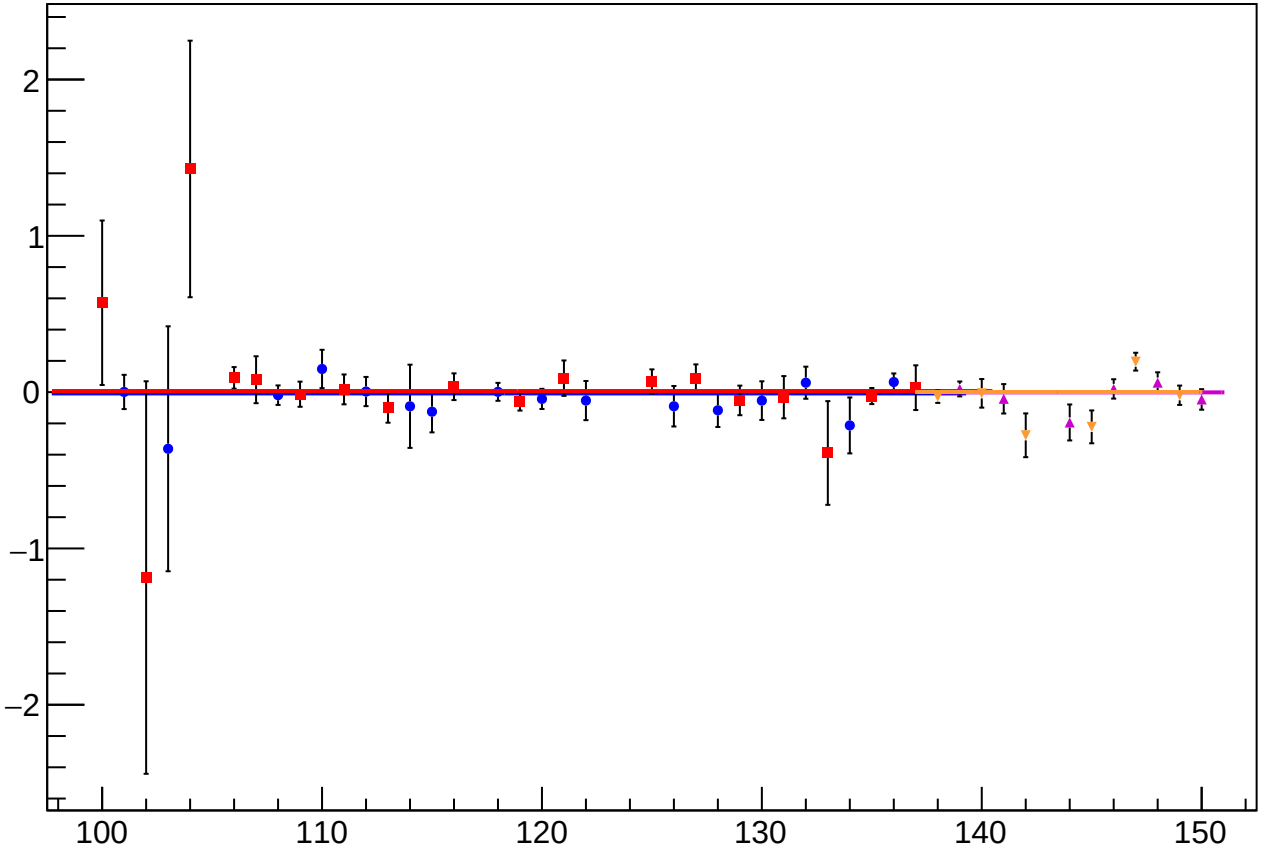
Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 55.280+/-0.012 $\chi^2$/NDF:3065648.7/21

Out: 49.389+/-0.012 $\chi^2$/NDF:4108557.6/23

All: 52.221+/-0.009 $\chi^2$/NDF: 7290357.4/45

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.001+/-0.026 $\chi^2$/NDF:20.7/5

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.002+/-0.027 $\chi^2$/NDF:4.7/5

Left: -0.000+/-0.019 $\chi^2$/NDF: 25.4/11

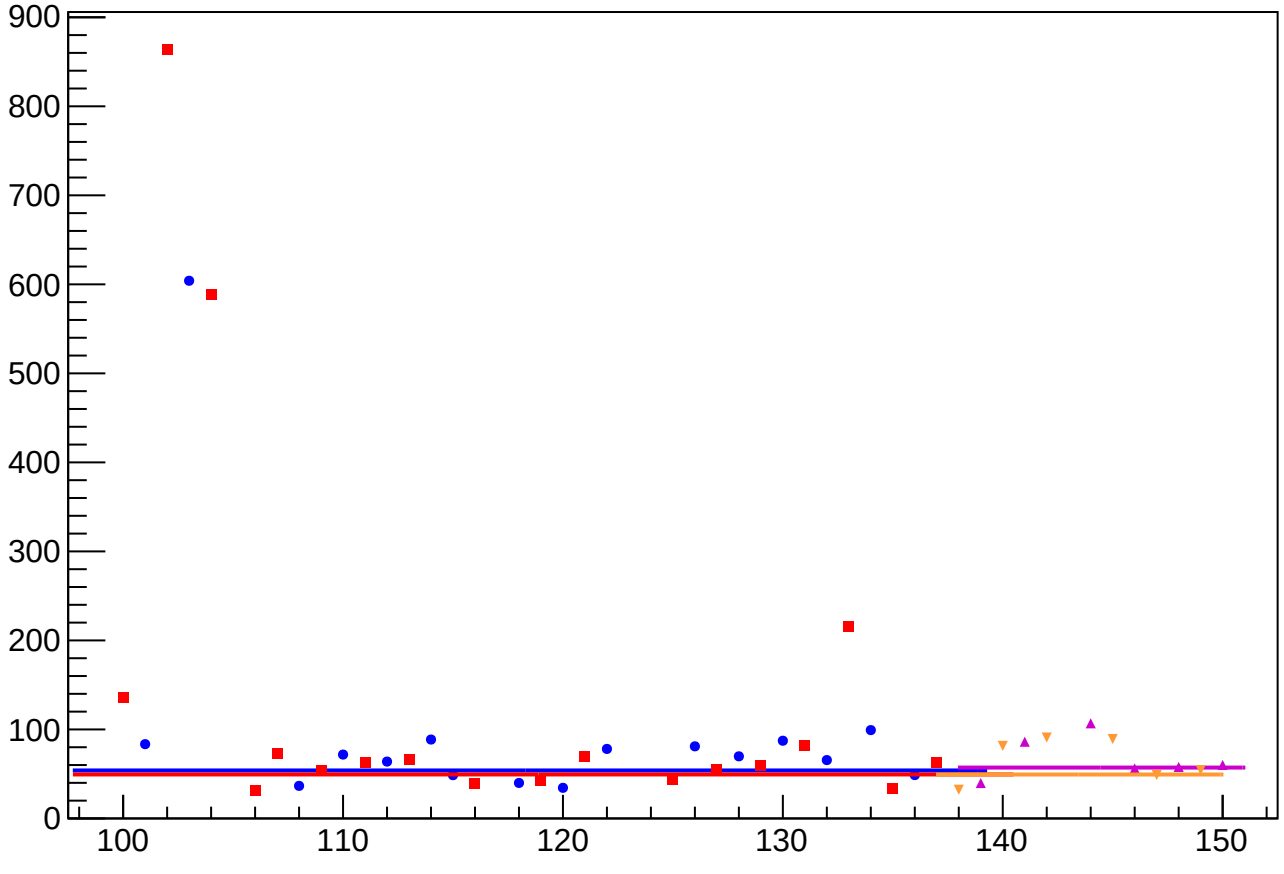
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.005+/-0.018 $\chi^2$/NDF:13.0/21

Out: 0.005+/-0.017 $\chi^2$/NDF:34.4/23

All: -0.000+/-0.012 $\chi^2$/NDF: 47.6/45

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.926+/-0.016 $\chi^2$/NDF: 2214348.1/15

Left Out: 49.347+/-0.019 $\chi^2$/NDF:1090829.4/5

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 57.158+/-0.019 $\chi^2$/NDF:834913.1/5

Left: 53.104+/-0.013 $\chi^2$/NDF: 2011243.8/11

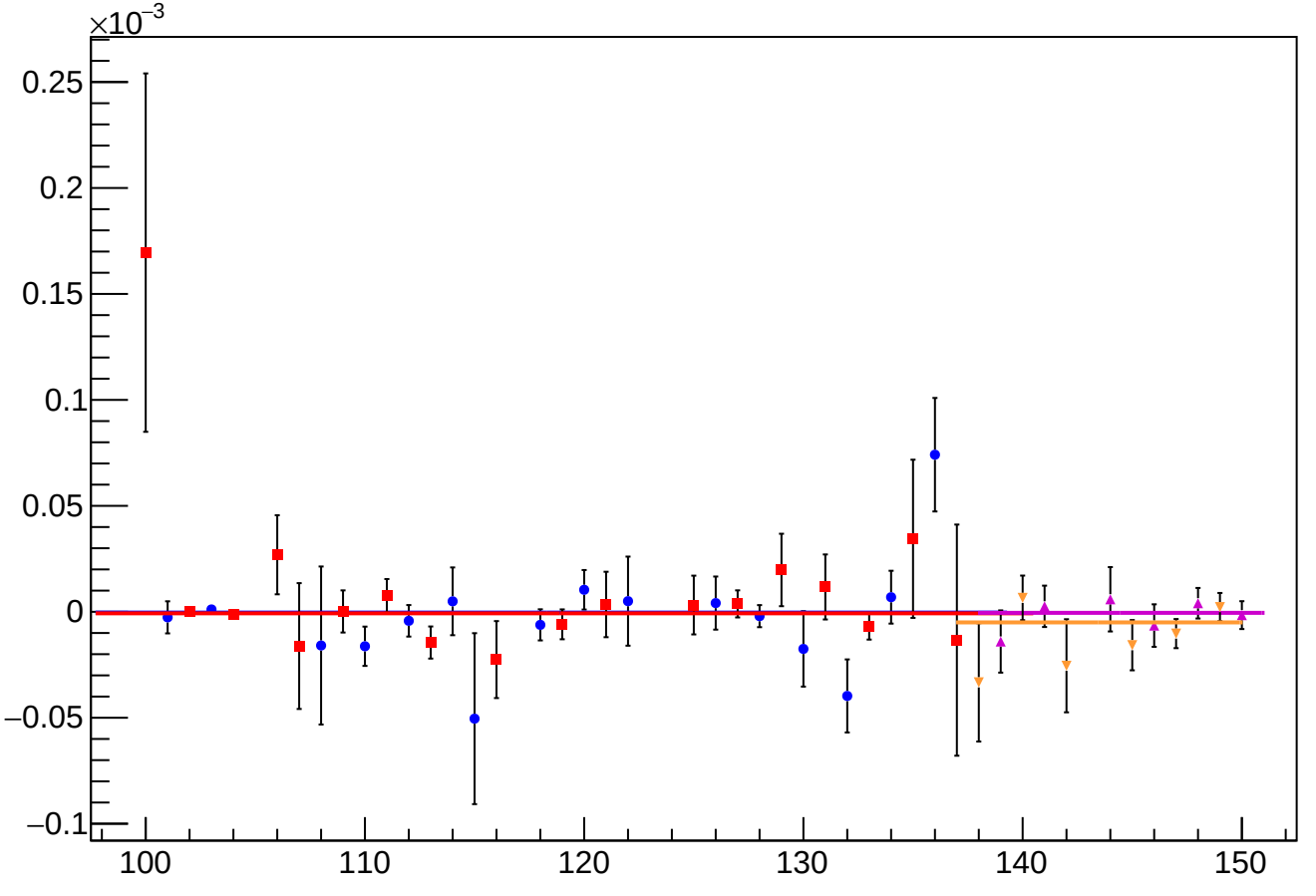
Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 55.280+/-0.012 $\chi^2$/NDF:3065648.7/21

Out: 49.389+/-0.012 $\chi^2$/NDF:4108557.6/23

All: 52.221+/-0.009 $\chi^2$/NDF: 7290357.4/45

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.7/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.9/5

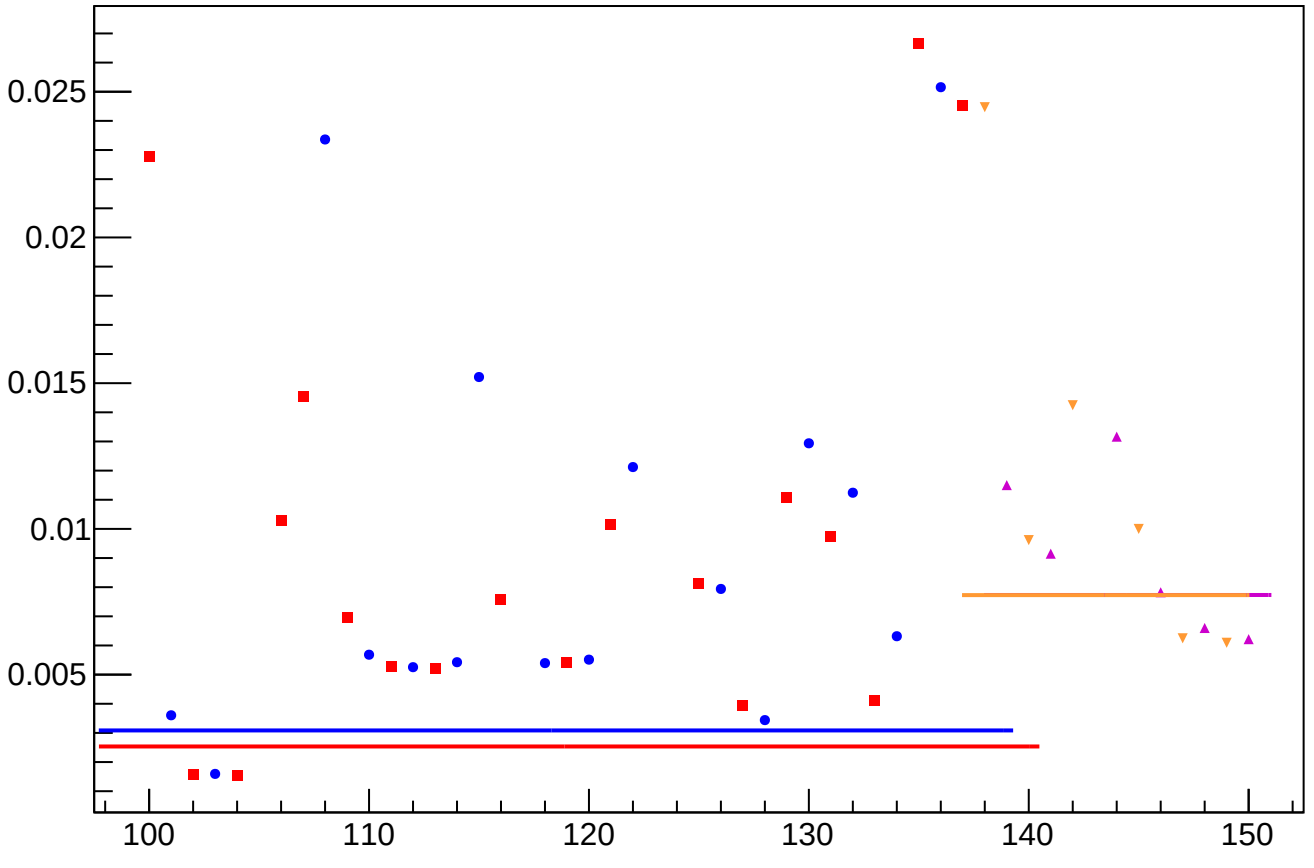
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.3/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/33

In: -0.000+/-0.000 $\chi^2$/NDF:24.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 48.7/45




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5779108.6/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:1245872.0/5

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6237059.6/17

Left In: 0.008+/-0.000 $\chi^2$/NDF:586179.9/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 1832053.1/11

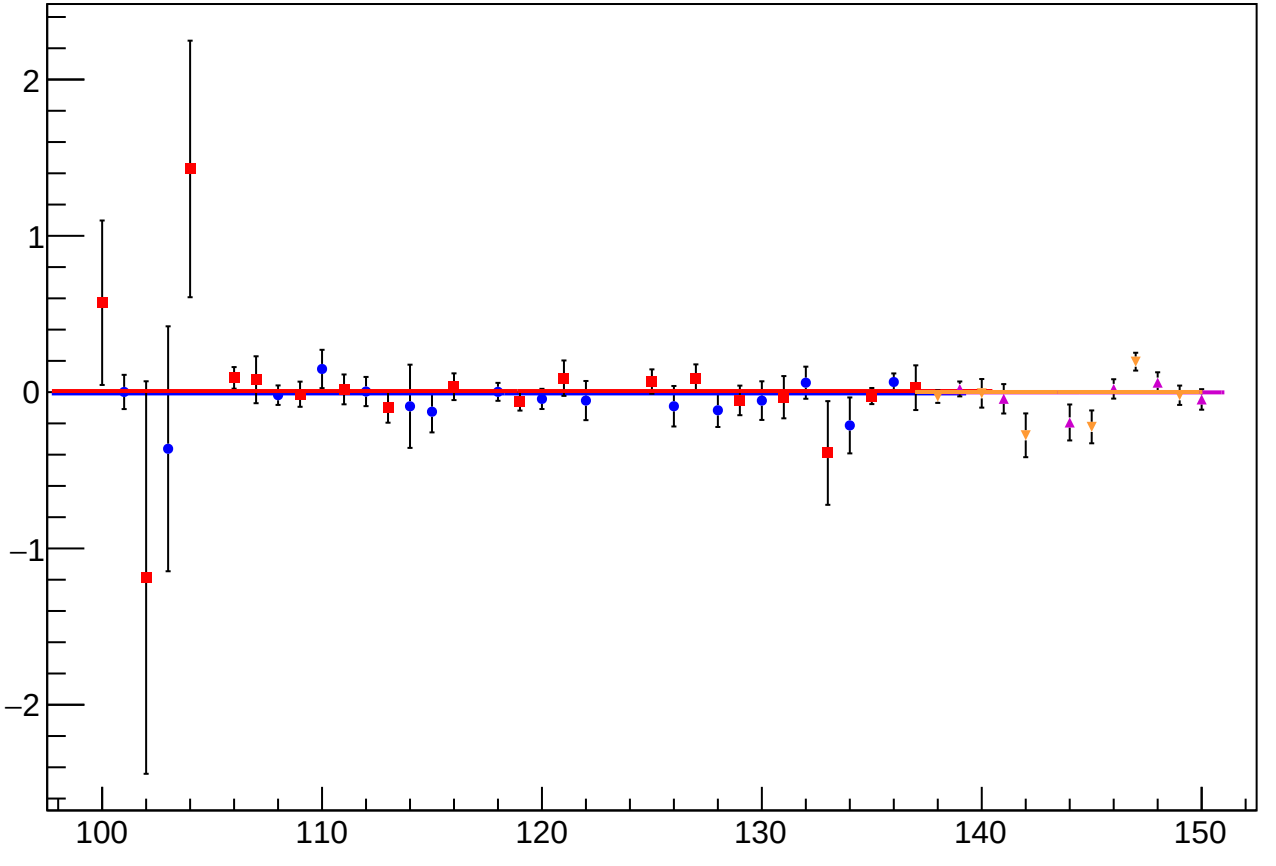
Right: 0.003+/-0.000 $\chi^2$/NDF: 12159145.0/33

In: 0.004+/-0.000 $\chi^2$/NDF:8975736.2/21

Out: 0.003+/-0.000 $\chi^2$/NDF:10576609.5/23

All: 0.003+/-0.000 $\chi^2$/NDF: 19908307.1/45

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.001+/-0.026 $\chi^2$/NDF:20.7/5

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.002+/-0.027 $\chi^2$/NDF:4.7/5

Left: -0.000+/-0.019 $\chi^2$/NDF: 25.4/11

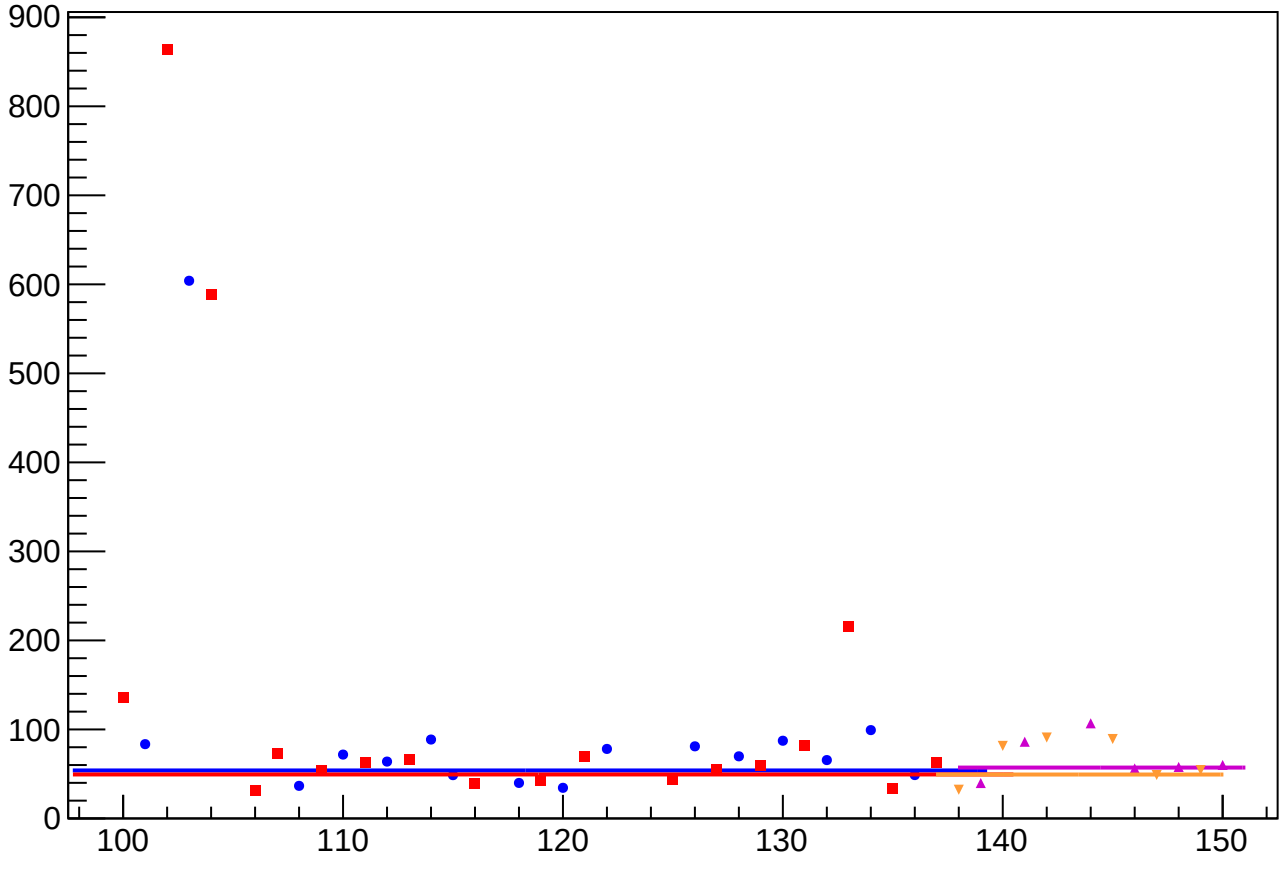
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.005+/-0.018 $\chi^2$/NDF:13.0/21

Out: 0.005+/-0.017 $\chi^2$/NDF:34.4/23

All: -0.000+/-0.012 $\chi^2$/NDF: 47.6/45

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.929+/-0.016 $\chi^2$/NDF: 2213950.2/15

Left Out: 49.351+/-0.019 $\chi^2$/NDF:1090283.4/5

Right Out: 49.422+/-0.016 $\chi^2$/NDF: 3017440.2/17

Left In: 57.156+/-0.019 $\chi^2$/NDF:834903.4/5

Left: 53.106+/-0.013 $\chi^2$/NDF: 2010560.7/11

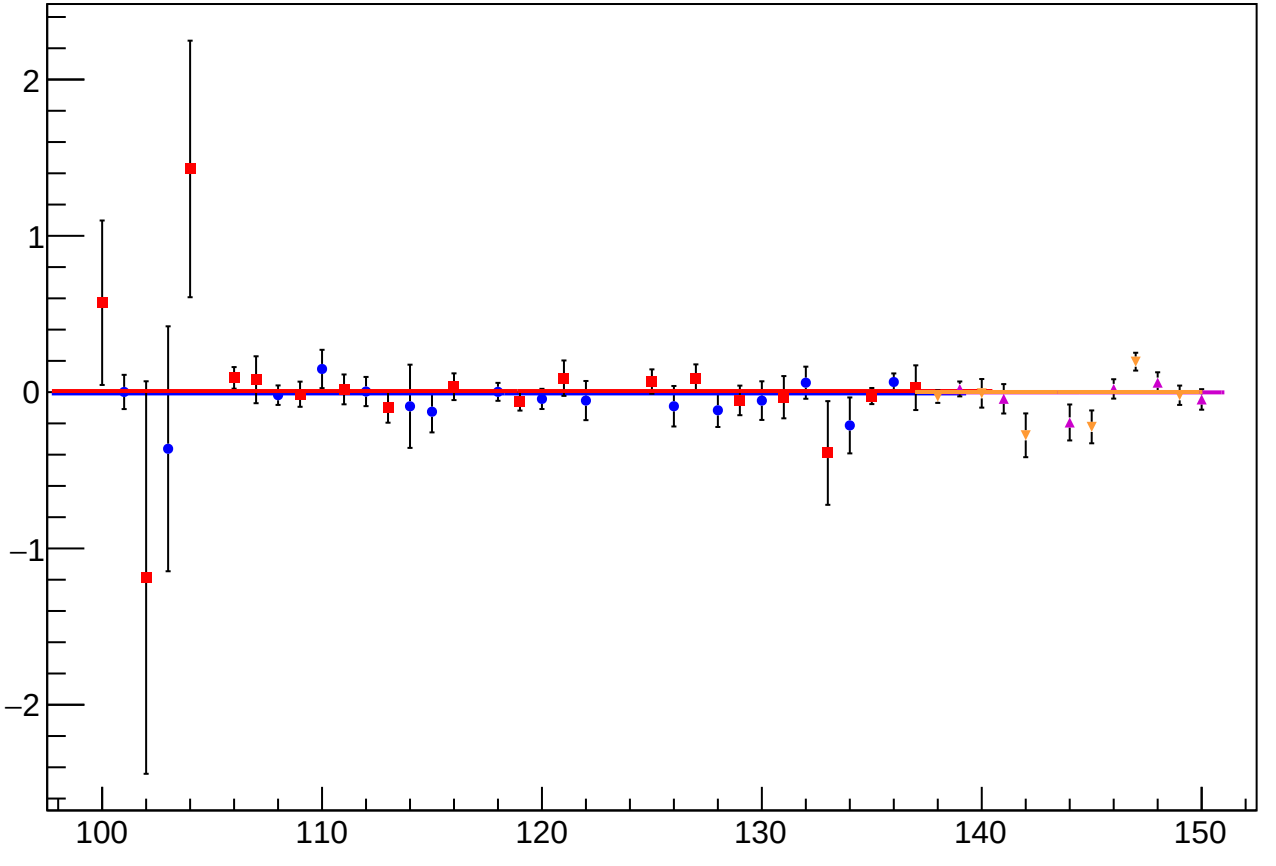
Right: 51.588+/-0.011 $\chi^2$/NDF: 5270924.4/33

In: 55.281+/-0.012 $\chi^2$/NDF:3065192.7/21

Out: 49.392+/-0.012 $\chi^2$/NDF:4107732.1/23

All: 52.223+/-0.009 $\chi^2$/NDF: 7289009.1/45

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.001+/-0.026 $\chi^2$/NDF:20.7/5

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.002+/-0.027 $\chi^2$/NDF:4.7/5

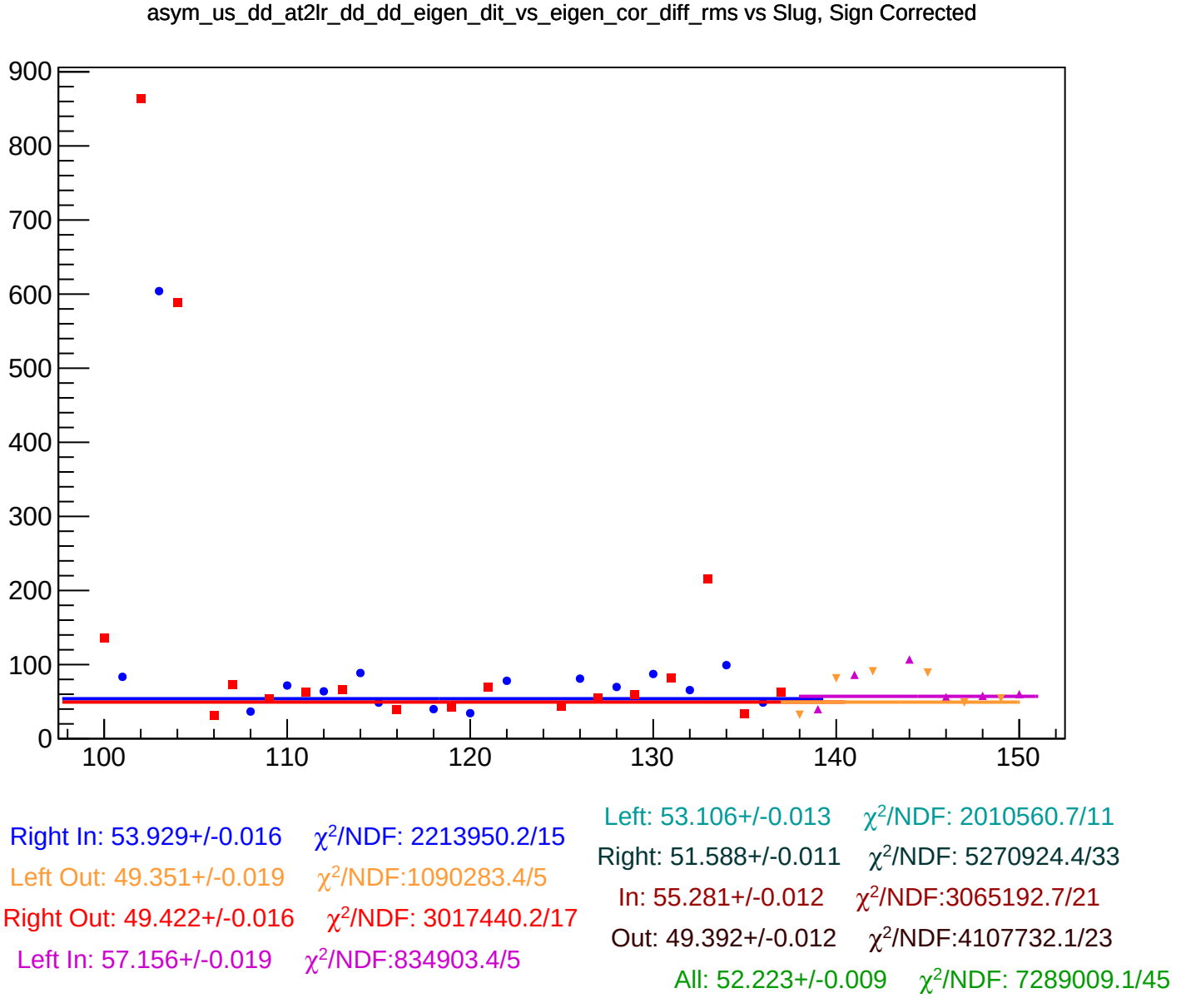
Left: -0.000+/-0.019 $\chi^2$/NDF: 25.4/11

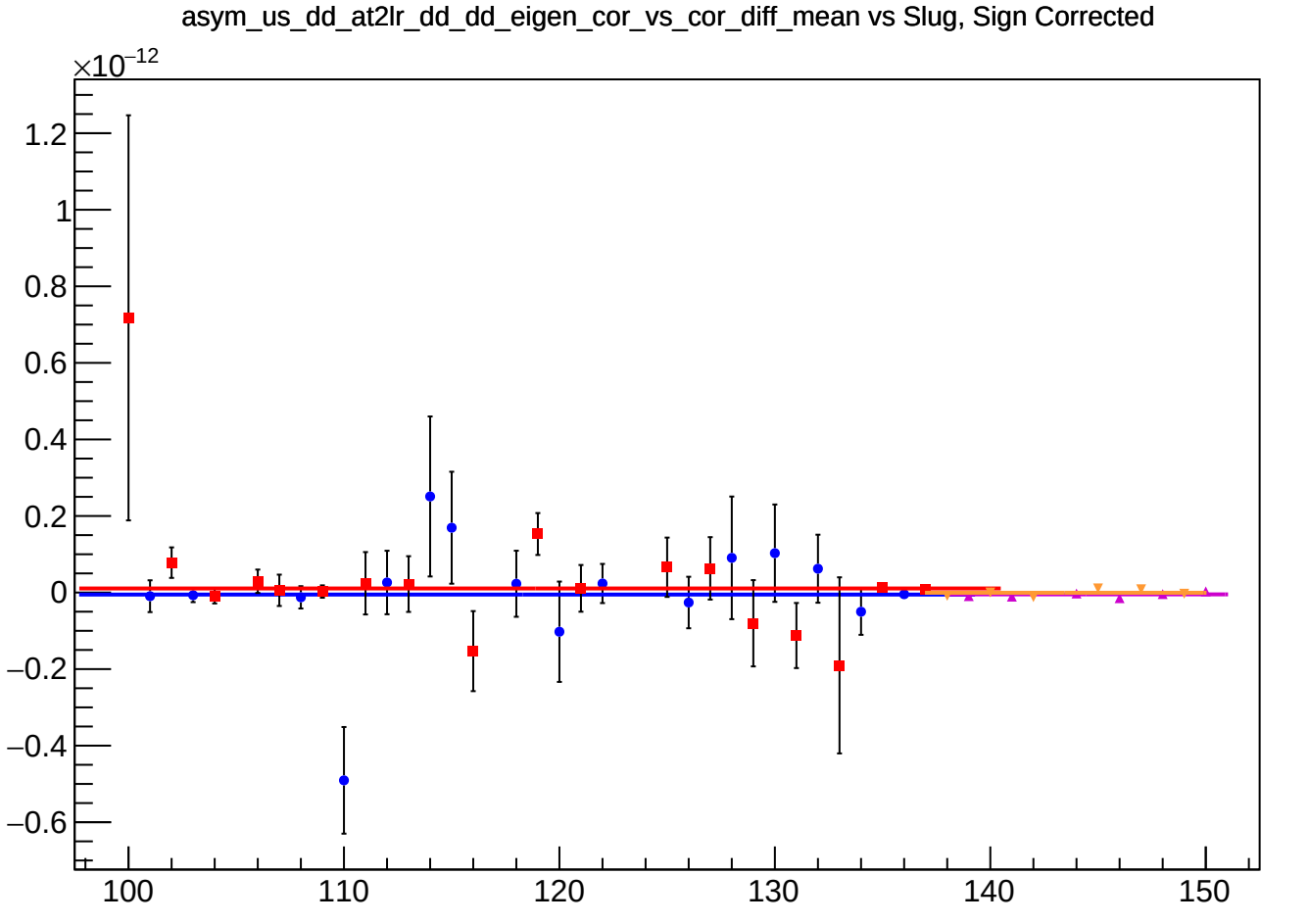
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.005+/-0.018 $\chi^2$/NDF:13.0/21

Out: 0.005+/-0.017 $\chi^2$/NDF:34.4/23

All: -0.000+/-0.012 $\chi^2$/NDF: 47.6/45


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
900
800
700
600
500
400
300
200
100
0
100
110
120
130
140
150
Right In: 53.929+/-0.016 χ2/NDF: 2213950.2/15
Left Out: 49.351+/-0.019 χ2/NDF:1090283.4/5
Right Out: 49.422+/-0.016 χ2/NDF: 3017440.2/17
Left In: 57.156+/-0.019 χ2/NDF:834903.4/5
Left: 53.106+/-0.013 χ2/NDF: 2010560.7/11
Right: 51.588+/-0.011 χ2/NDF: 5270924.4/33
In: 55.281+/-0.012 χ2/NDF:3065192.7/21
Out: 49.392+/-0.012 χ2/NDF:4107732.1/23
All: 52.223+/-0.009 χ2/NDF: 7289009.1/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.8/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.8/5

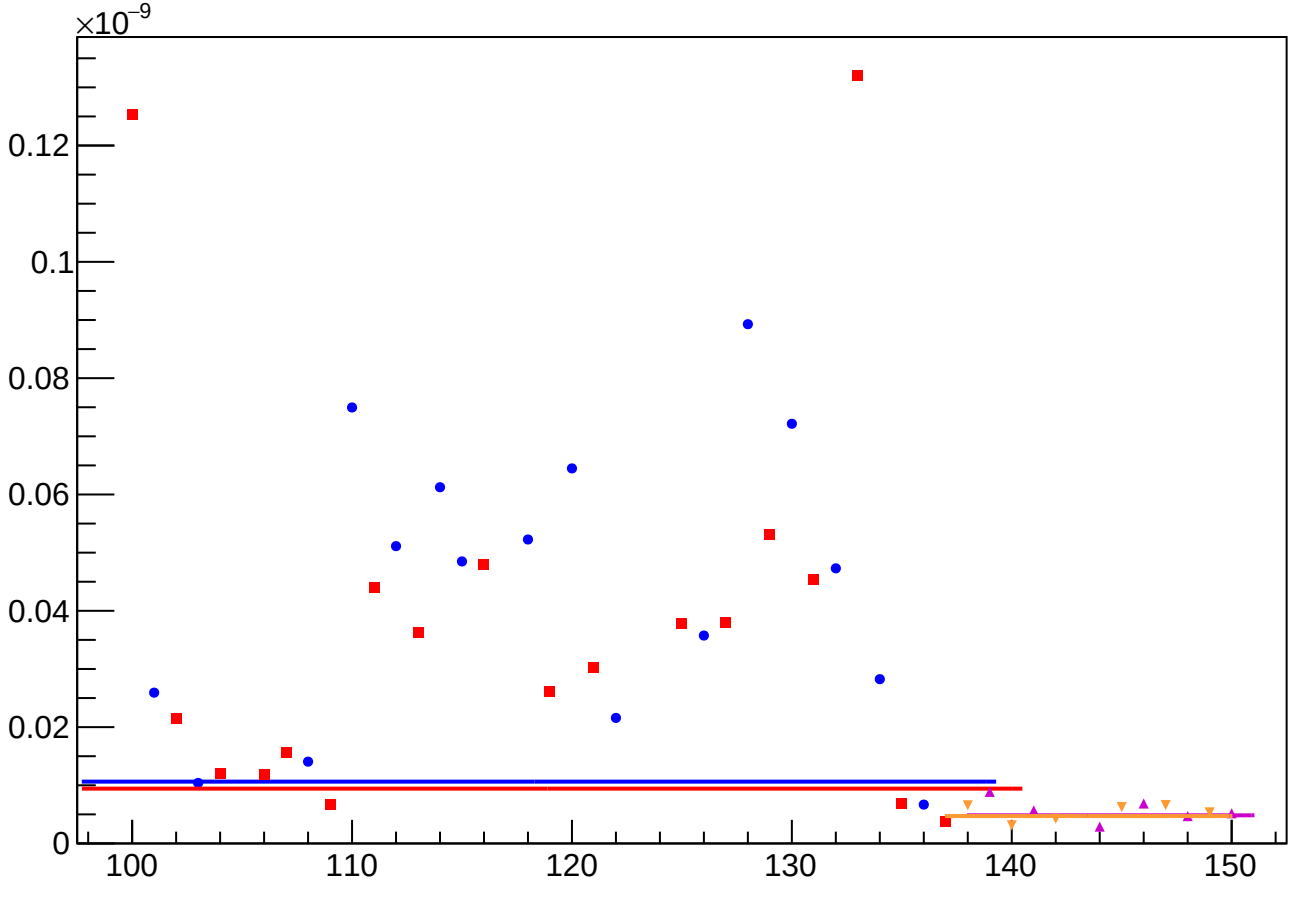
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.7/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 41.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:22.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4557309.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:508867.4/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4029424.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:717675.3/5

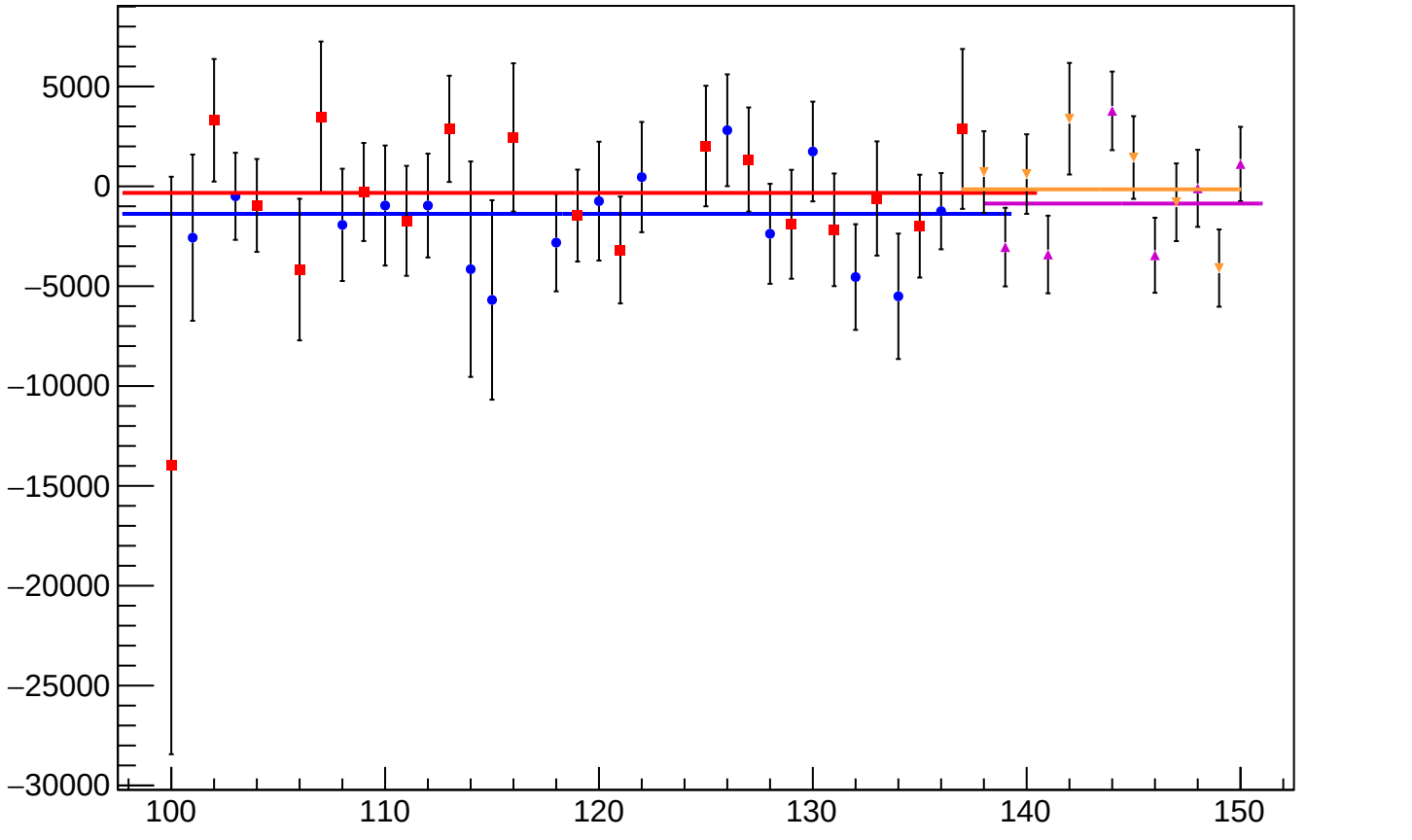
Left: 0.000+/-0.000 $\chi^2$/NDF: 1228525.6/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 8619590.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:6497901.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5427089.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11930854.7/45




Right In: -1378.758+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: -150.685+/-849.882 $\chi^2$/NDF:6.8/5

Right Out: -328.770+/-683.888 $\chi^2$/NDF: 11.0/17

Left In: -862.278+/-785.363 $\chi^2$/NDF:11.7/5

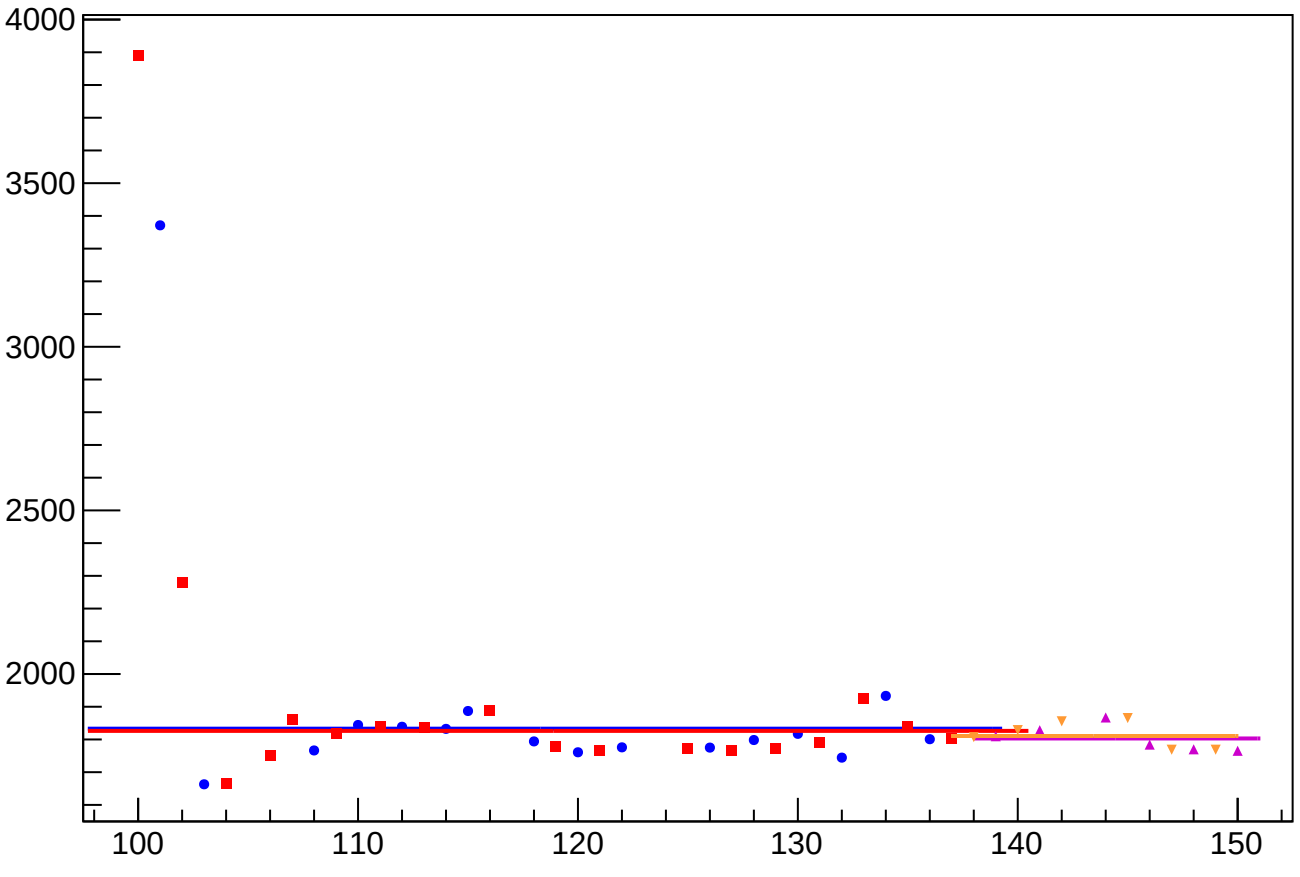
Left: -534.514+/-576.797 $\chi^2$/NDF: 18.9/11

Right: -849.832+/-485.390 $\chi^2$/NDF: 21.5/33

In: -1154.120+/-517.947 $\chi^2$/NDF:21.2/21

Out: -258.777+/-532.807 $\chi^2$/NDF:17.9/23

All: -719.108+/-371.386 $\chi^2$/NDF: 40.6/45




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295439.4/15

Left Out: 1810.580+/-0.601 $\chi^2$/NDF:3954.4/5

Right Out: 1826.208+/-0.484 $\chi^2$/NDF: 103006.6/17

Left In: 1803.027+/-0.555 $\chi^2$/NDF:4092.2/5

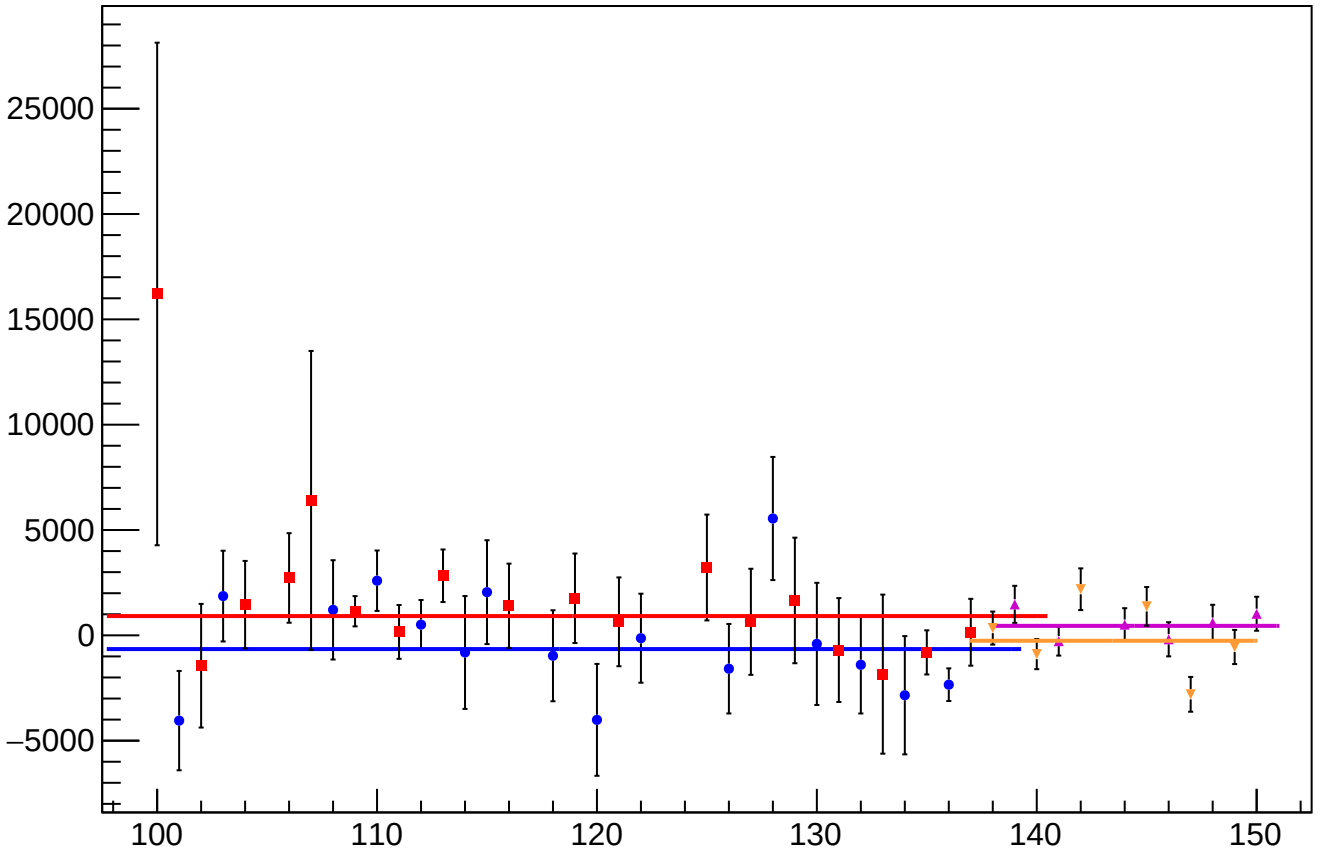
Left: 1806.506+/-0.408 $\chi^2$/NDF: 8131.8/11

Right: 1829.552+/-0.343 $\chi^2$/NDF: 398542.3/33

In: 1819.933+/-0.366 $\chi^2$/NDF:301171.8/21

Out: 1820.066+/-0.377 $\chi^2$/NDF:107371.4/23

All: 1819.998+/-0.263 $\chi^2$/NDF: 408543.3/45




Right In: -651.944+/-442.135 $\chi^2$/NDF: 23.2/15

Left Out: -257.567+/-337.604 $\chi^2$/NDF:20.3/5

Right Out: 914.717+/-393.421 $\chi^2$/NDF: 11.5/17

Left In: 450.430+/-324.176 $\chi^2$/NDF:3.6/5

Left: 110.792+/-233.830 $\chi^2$/NDF: 26.2/11

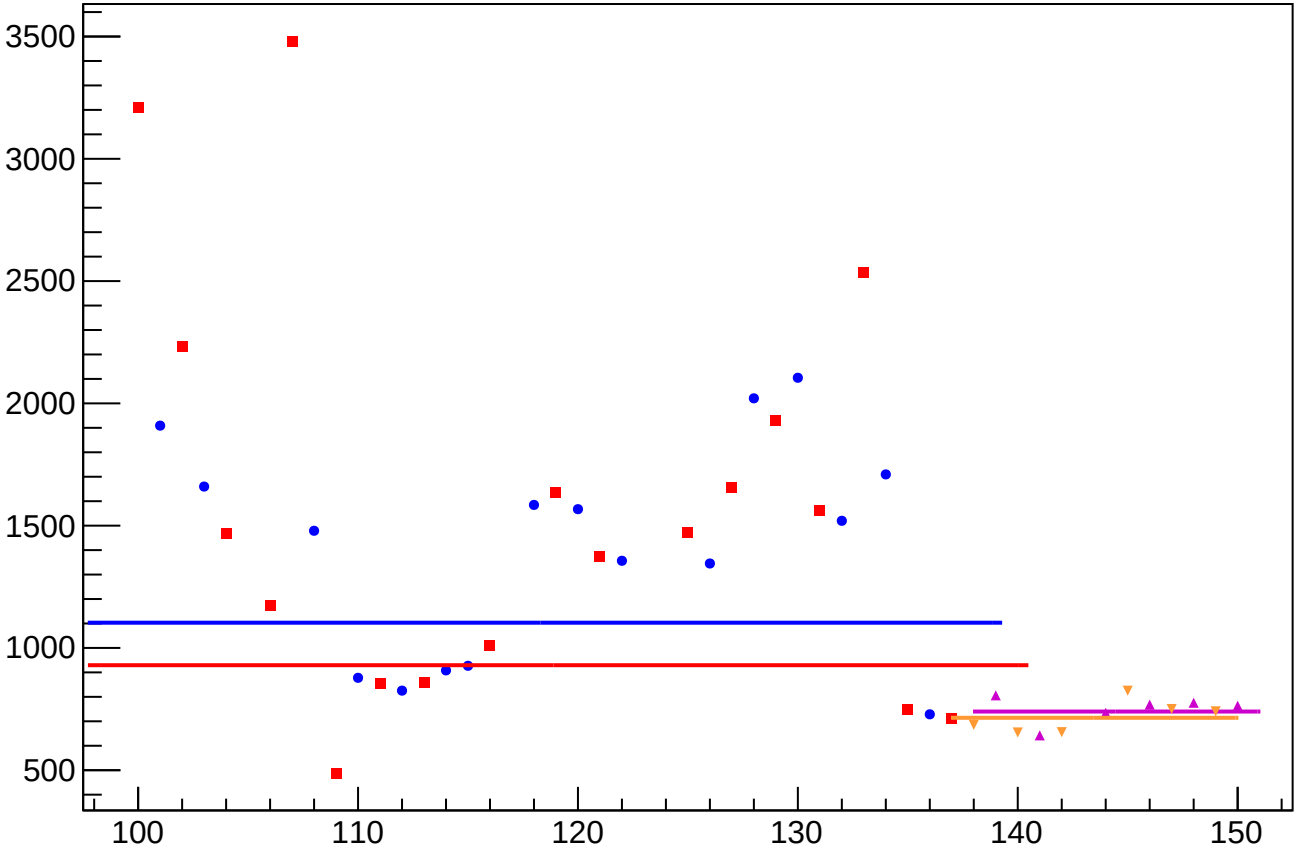
Right: 222.415+/-293.910 $\chi^2$/NDF: 41.8/33

In: 65.005+/-261.433 $\chi^2$/NDF:30.9/21

Out: 239.584+/-256.204 $\chi^2$/NDF:36.9/23

All: 154.058+/-182.984 $\chi^2$/NDF: 68.0/45

asym_us_dd_atlr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1103.183+/-0.313 $\chi^2$/NDF: 1878176.1/15

Left Out: 714.348+/-0.239 $\chi^2$/NDF:58870.9/5

Right Out: 929.356+/-0.278 $\chi^2$/NDF: 3054092.4/17

Left In: 739.919+/-0.229 $\chi^2$/NDF:59451.9/5

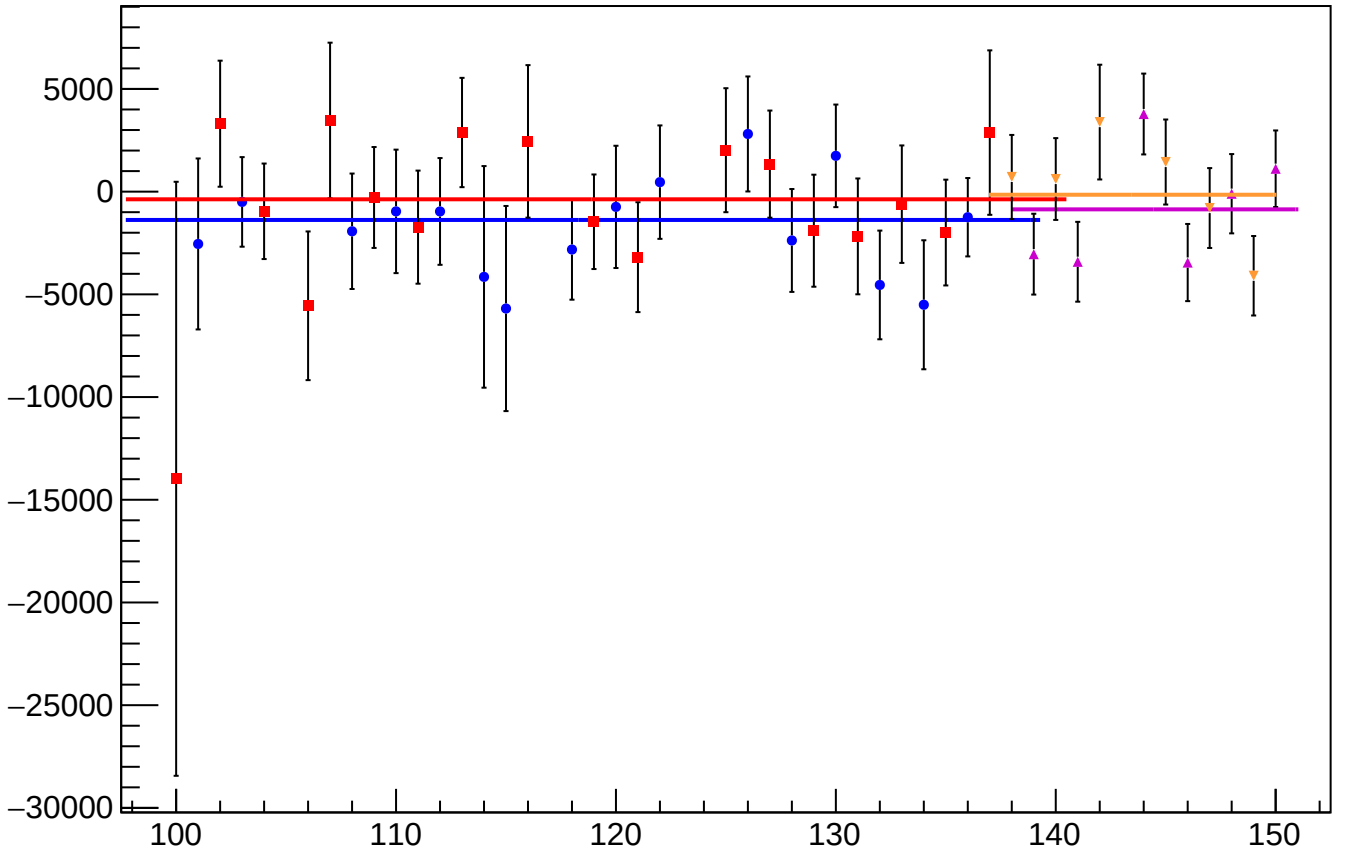
Left: 727.652+/-0.165 $\chi^2$/NDF: 124292.2/11

Right: 1006.170+/-0.208 $\chi^2$/NDF: 5104800.3/33

In: 866.928+/-0.185 $\chi^2$/NDF:2815690.7/21

Out: 805.531+/-0.181 $\chi^2$/NDF:3456980.2/23

All: 835.609+/-0.129 $\chi^2$/NDF: 6328938.5/45




Right In: -1378.133+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: -150.608+/-849.882 $\chi^2$/NDF:6.8/5

Right Out: -372.534+/-684.408 $\chi^2$/NDF: 12.0/17

Left In: -862.381+/-785.363 $\chi^2$/NDF:11.7/5

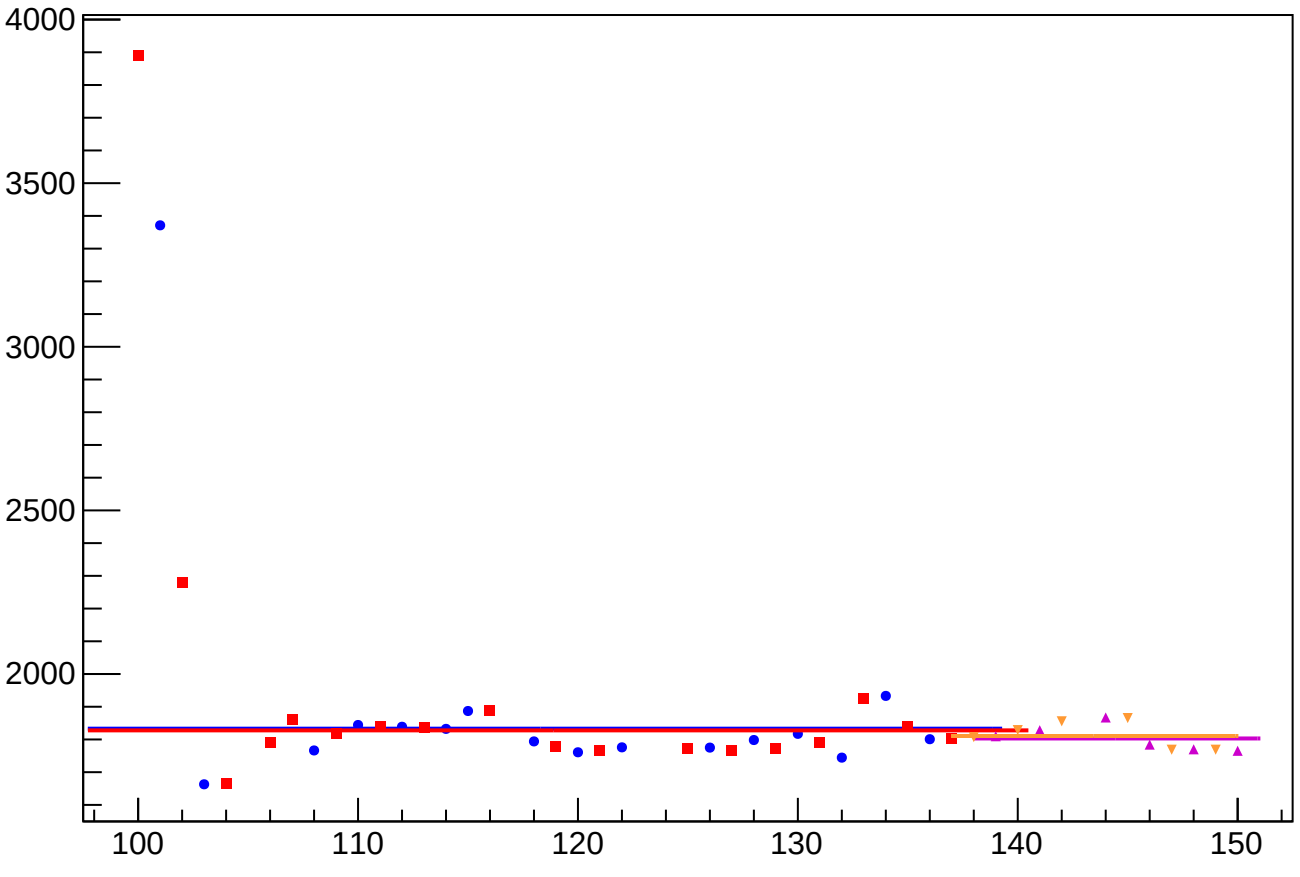
Left: -534.534+/-576.797 $\chi^2$/NDF: 18.9/11

Right: -871.950+/-485.576 $\chi^2$/NDF: 22.3/33

In: -1153.812+/-517.947 $\chi^2$/NDF:21.2/21

Out: -285.230+/-533.053 $\chi^2$/NDF:18.8/23

All: -732.003+/-371.469 $\chi^2$/NDF: 41.4/45




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1810.580+/-0.601 $\chi^2$/NDF:3954.4/5

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1803.027+/-0.555 $\chi^2$/NDF:4092.2/5

Left: 1806.506+/-0.408 $\chi^2$/NDF: 8131.8/11

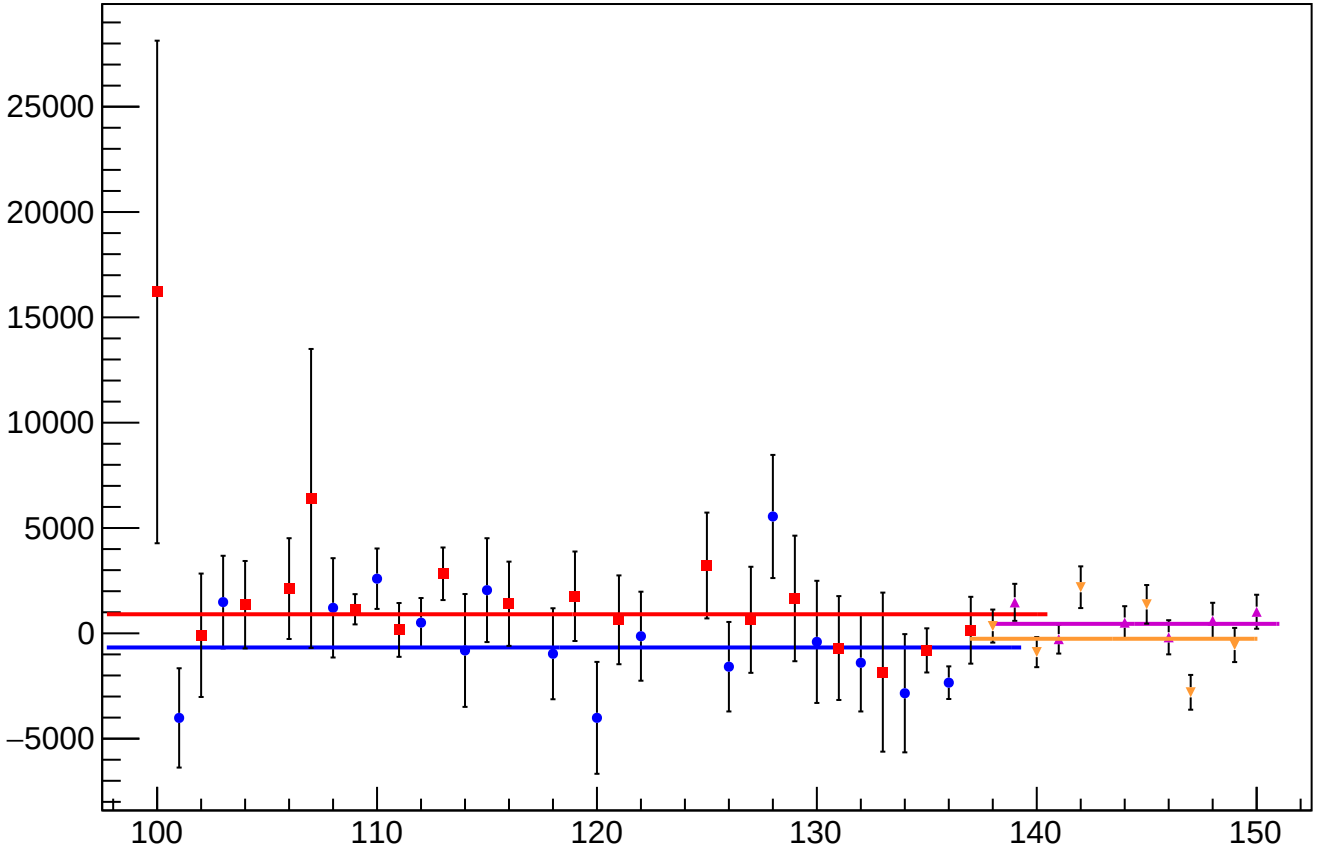
Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1819.933+/-0.366 $\chi^2$/NDF:301173.7/21

Out: 1821.017+/-0.377 $\chi^2$/NDF:106721.9/23

All: 1820.459+/-0.263 $\chi^2$/NDF: 407899.8/45

asym_us_dd_atlr_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: -257.678+/-337.608 $\chi^2$/NDF:20.3/5

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 450.349+/-324.176 $\chi^2$/NDF:3.6/5

Left: 110.700+/-233.831 $\chi^2$/NDF: 26.2/11

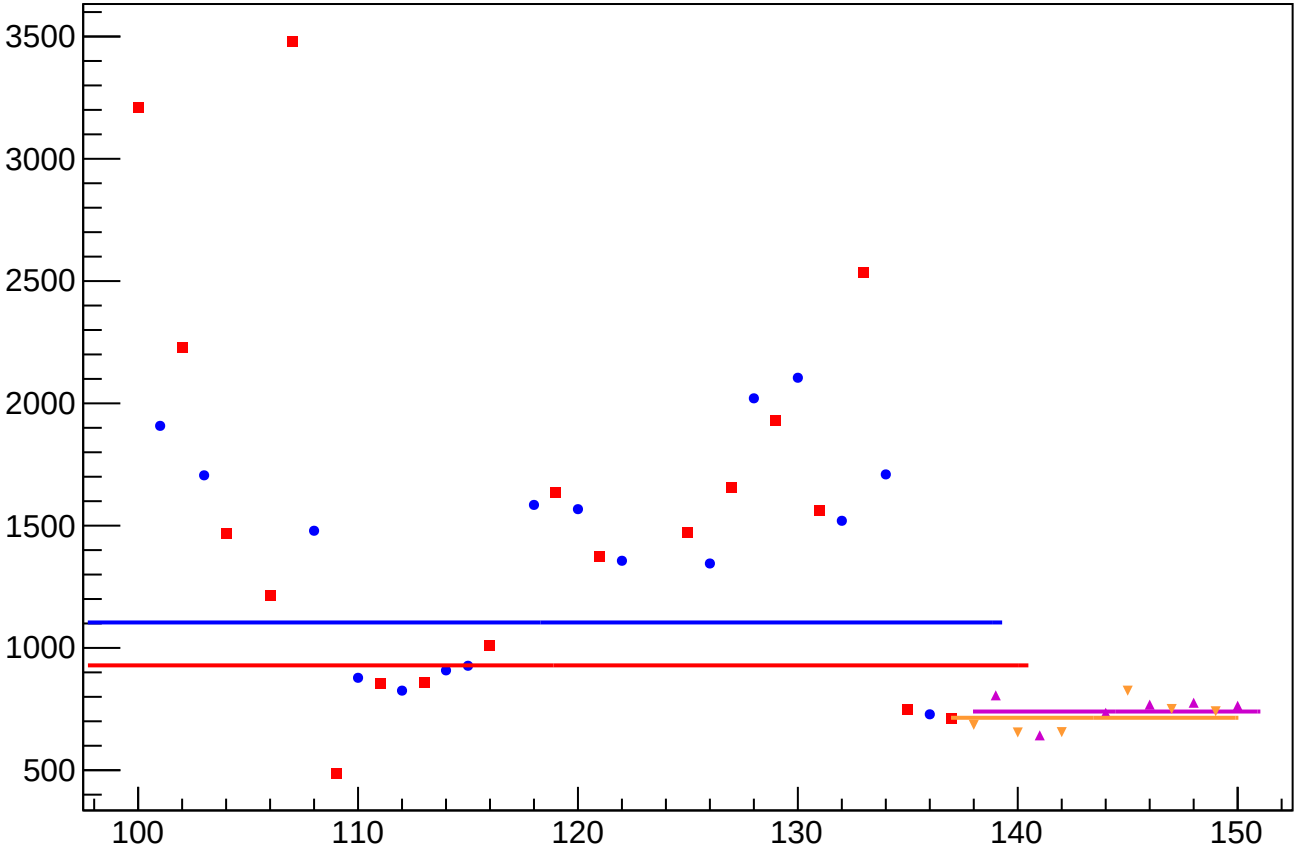
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: 58.877+/-261.510 $\chi^2$/NDF:30.6/21

Out: 233.769+/-256.589 $\chi^2$/NDF:35.8/23

All: 147.984+/-183.151 $\chi^2$/NDF: 66.6/45

asym_us_dd_atlr_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1104.103+/-0.313 $\chi^2$/NDF: 1894482.2/15

Left Out: 714.357+/-0.239 $\chi^2$/NDF:58866.8/5

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 739.919+/-0.229 $\chi^2$/NDF:59476.5/5

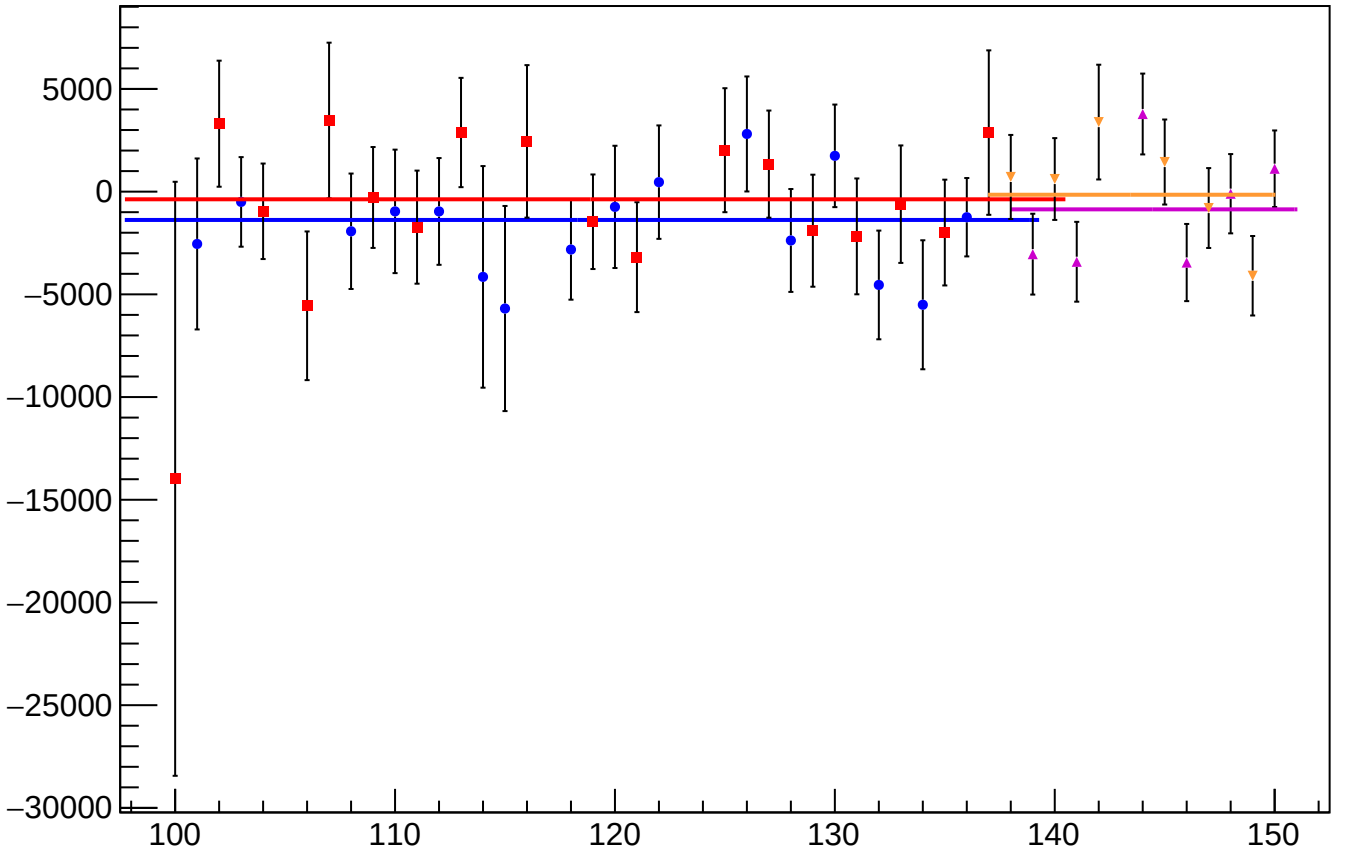
Left: 727.657+/-0.165 $\chi^2$/NDF: 124308.6/11

Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 867.111+/-0.185 $\chi^2$/NDF:2835509.0/21

Out: 804.859+/-0.181 $\chi^2$/NDF:3453519.2/23

All: 835.394+/-0.130 $\chi^2$/NDF: 6346771.7/45




Right In: -1378.133+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: -150.608+/-849.882 $\chi^2$/NDF:6.8/5

Right Out: -372.534+/-684.408 $\chi^2$/NDF: 12.0/17

Left In: -862.381+/-785.363 $\chi^2$/NDF:11.7/5

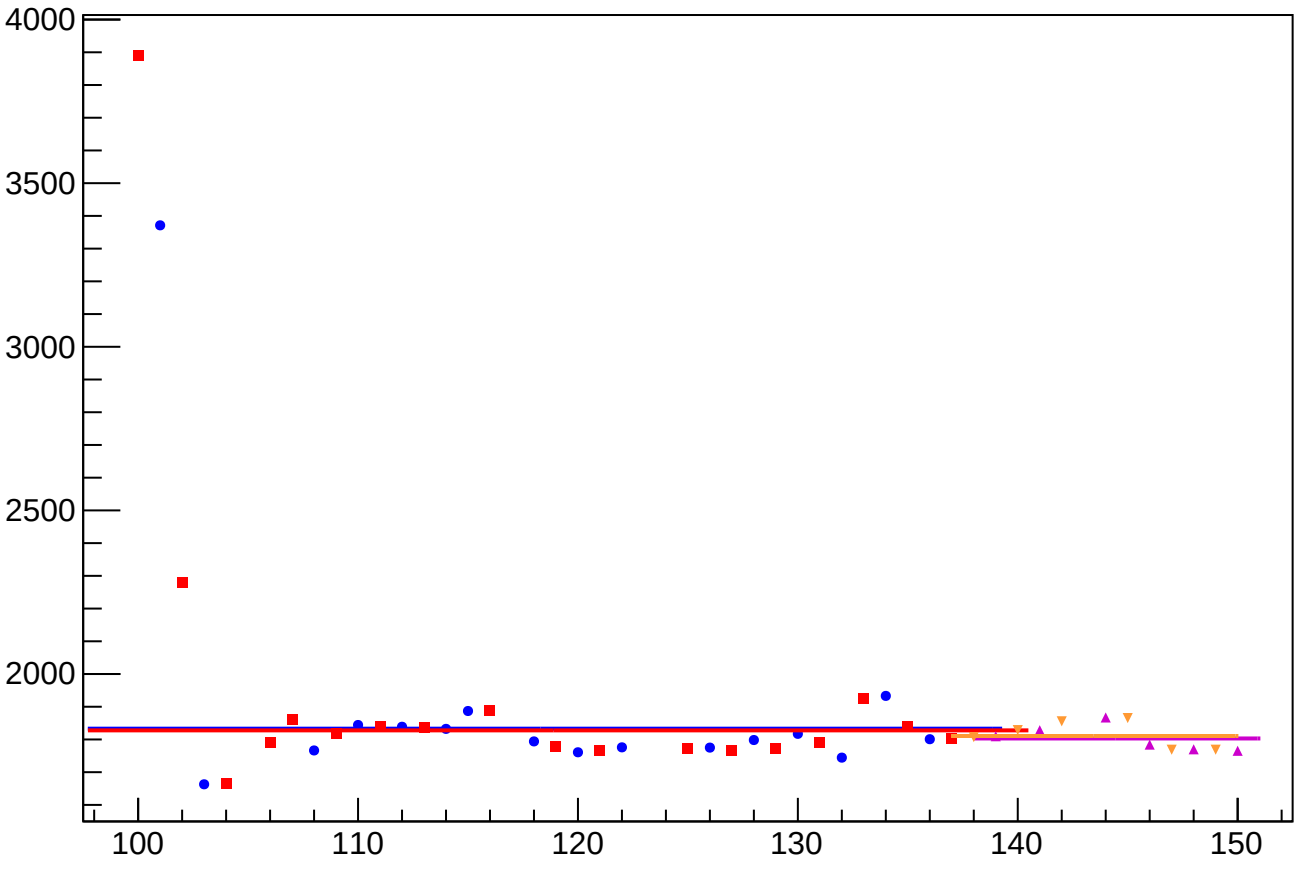
Left: -534.534+/-576.797 $\chi^2$/NDF: 18.9/11

Right: -871.950+/-485.576 $\chi^2$/NDF: 22.3/33

In: -1153.812+/-517.947 $\chi^2$/NDF:21.2/21

Out: -285.230+/-533.053 $\chi^2$/NDF:18.8/23

All: -732.003+/-371.469 $\chi^2$/NDF: 41.4/45




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1810.580+/-0.601 $\chi^2$/NDF:3954.4/5

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1803.027+/-0.555 $\chi^2$/NDF:4092.2/5

Left: 1806.506+/-0.408 $\chi^2$/NDF: 8131.8/11

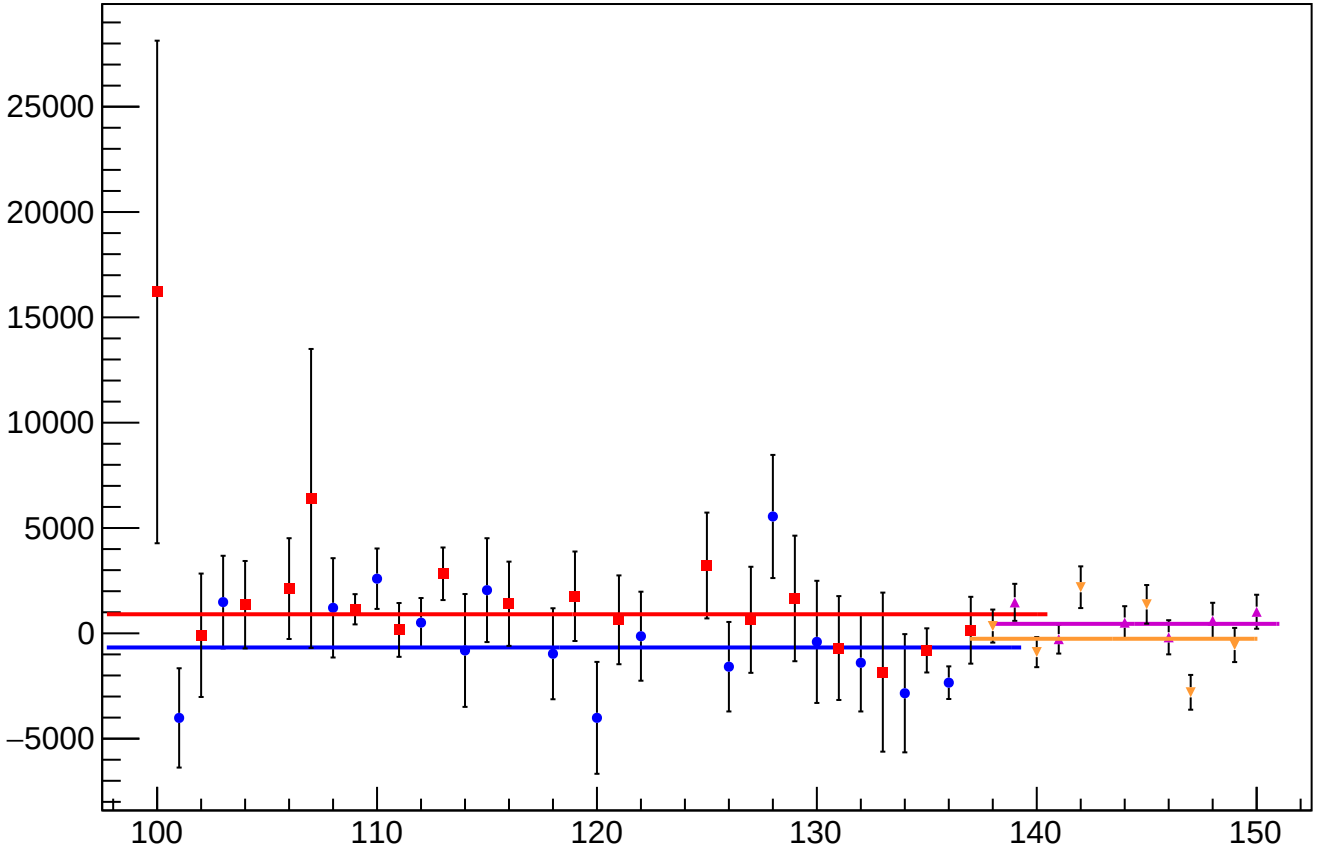
Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1819.933+/-0.366 $\chi^2$/NDF:301173.7/21

Out: 1821.017+/-0.377 $\chi^2$/NDF:106721.9/23

All: 1820.459+/-0.263 $\chi^2$/NDF: 407899.8/45

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: -257.678+/-337.608 $\chi^2$/NDF:20.3/5

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 450.349+/-324.176 $\chi^2$/NDF:3.6/5

Left: 110.700+/-233.831 $\chi^2$/NDF: 26.2/11

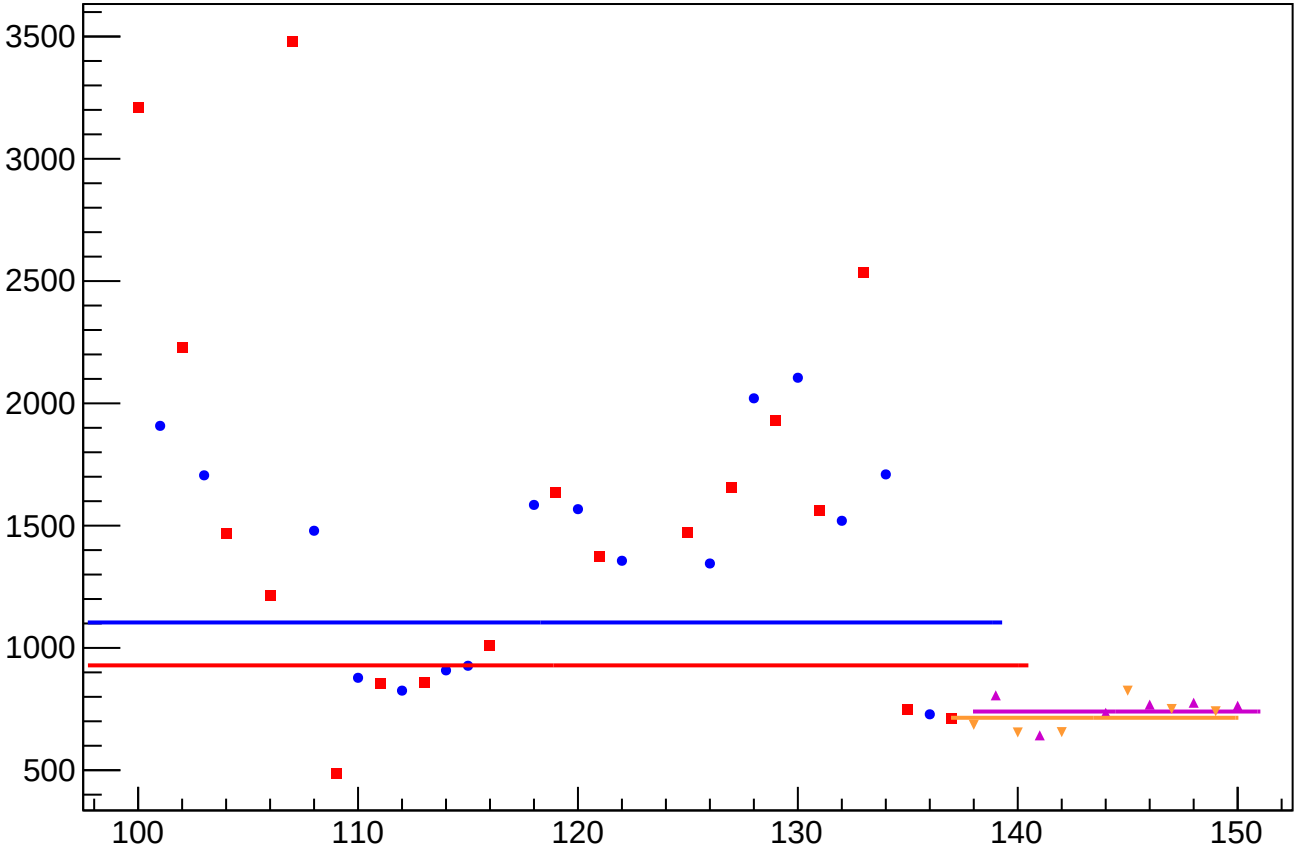
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: 58.877+/-261.510 $\chi^2$/NDF:30.6/21

Out: 233.769+/-256.589 $\chi^2$/NDF:35.8/23

All: 147.984+/-183.151 $\chi^2$/NDF: 66.6/45

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1104.103+/-0.313 $\chi^2$/NDF: 1894482.2/15

Left Out: 714.357+/-0.239 $\chi^2$/NDF:58866.8/5

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 739.919+/-0.229 $\chi^2$/NDF:59476.5/5

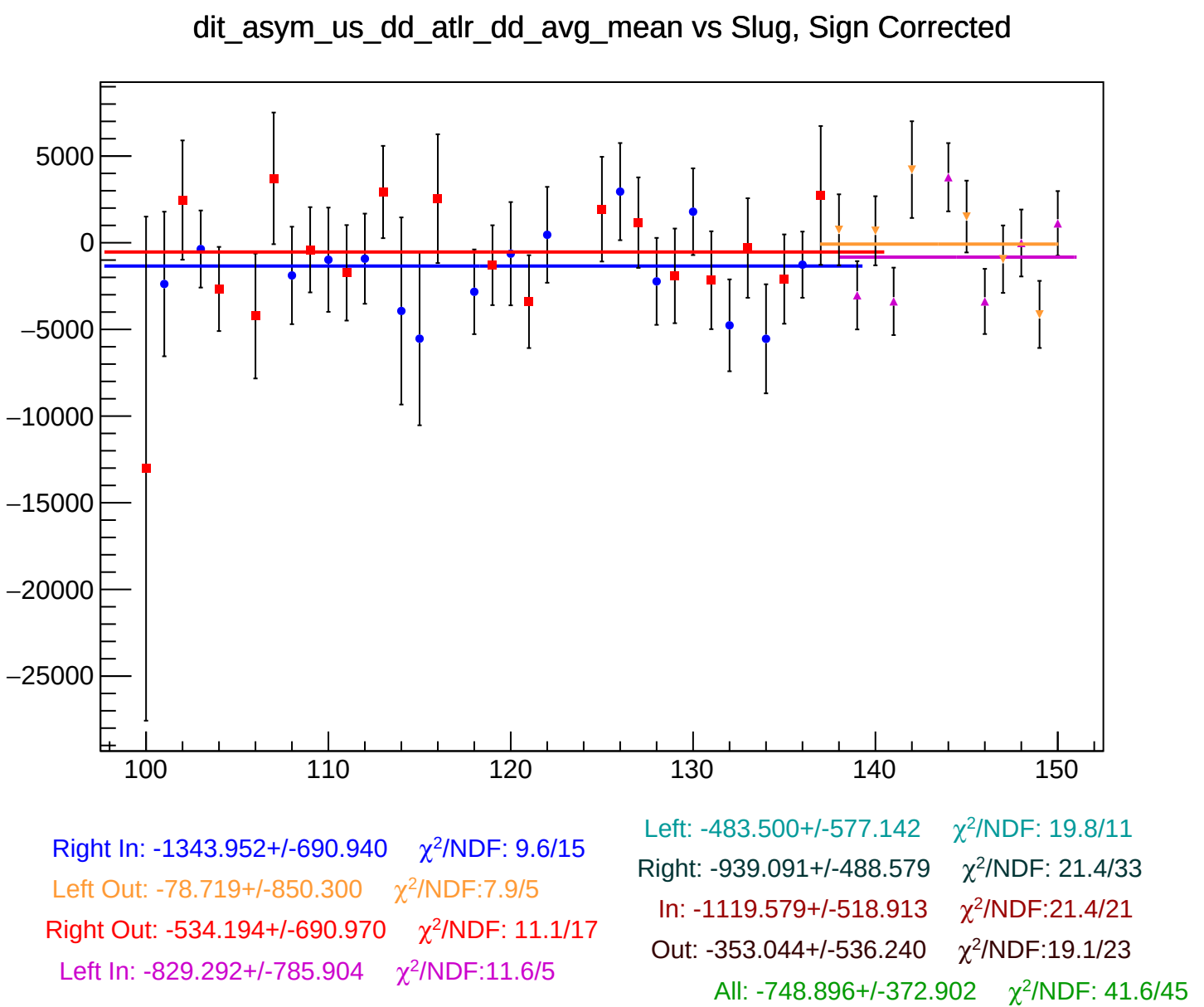
Left: 727.657+/-0.165 $\chi^2$/NDF: 124308.6/11

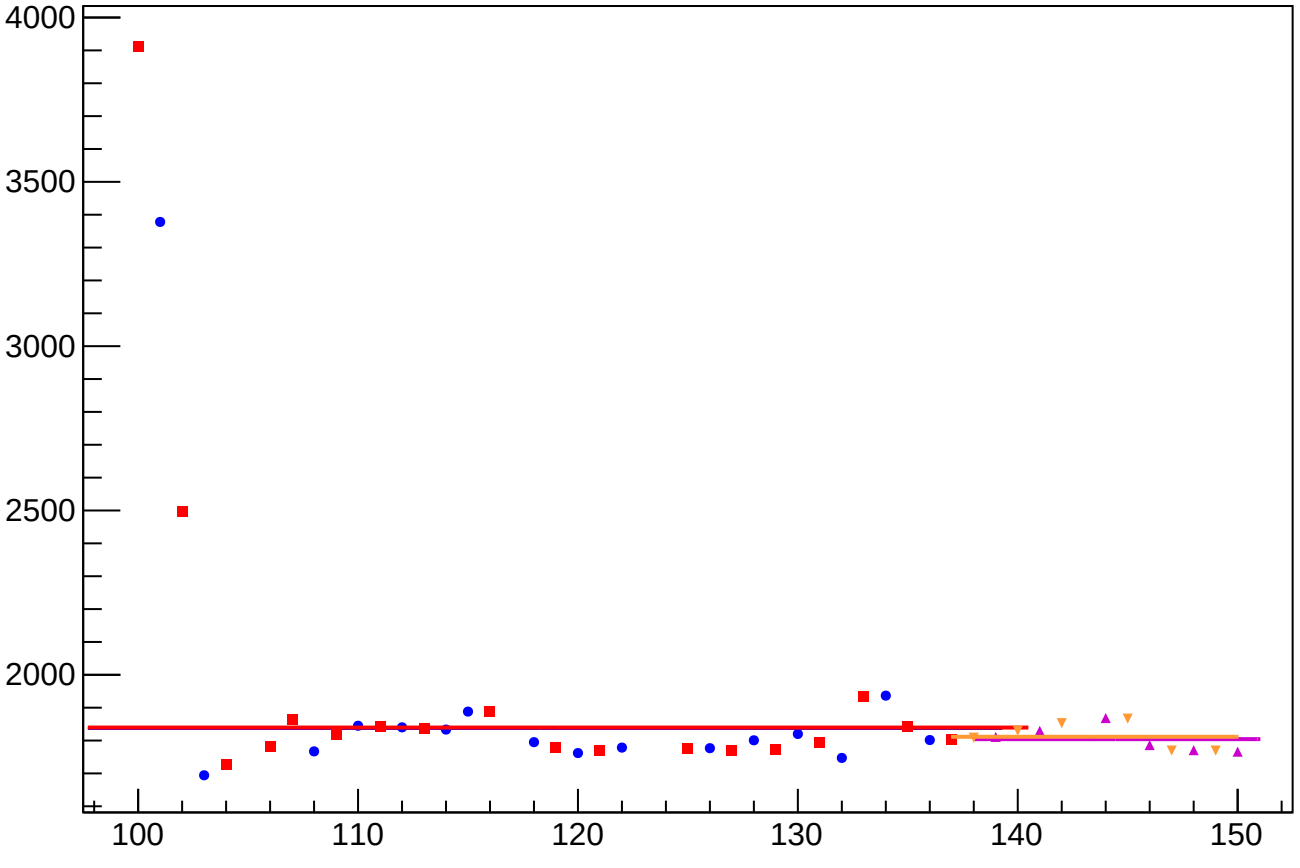
Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 867.111+/-0.185 $\chi^2$/NDF:2835509.0/21

Out: 804.859+/-0.181 $\chi^2$/NDF:3453519.2/23

All: 835.394+/-0.130 $\chi^2$/NDF: 6346771.7/45


dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
Right In: -1343.952+/-690.940 χ²/NDF: 9.6/15
Left Out: -78.719+/-850.300 χ²/NDF:7.9/5
Right Out: -534.194+/-690.970 χ²/NDF: 11.1/17
Left In: -829.292+/-785.904 χ²/NDF:11.6/5
Left: -483.500+/-577.142 χ²/NDF: 19.8/11
Right: -939.091+/-488.579 χ²/NDF: 21.4/33
In: -1119.579+/-518.913 χ²/NDF:21.4/21
Out: -353.044+/-536.240 χ²/NDF:19.1/23
All: -748.896+/-372.902 χ²/NDF: 41.6/45




Right In: 1838.159+/-0.489 $\chi^2$/NDF: 291984.0/15

Left Out: 1811.442+/-0.601 $\chi^2$/NDF:3905.2/5

Right Out: 1839.517+/-0.489 $\chi^2$/NDF: 128253.5/17

Left In: 1804.265+/-0.556 $\chi^2$/NDF:4109.1/5

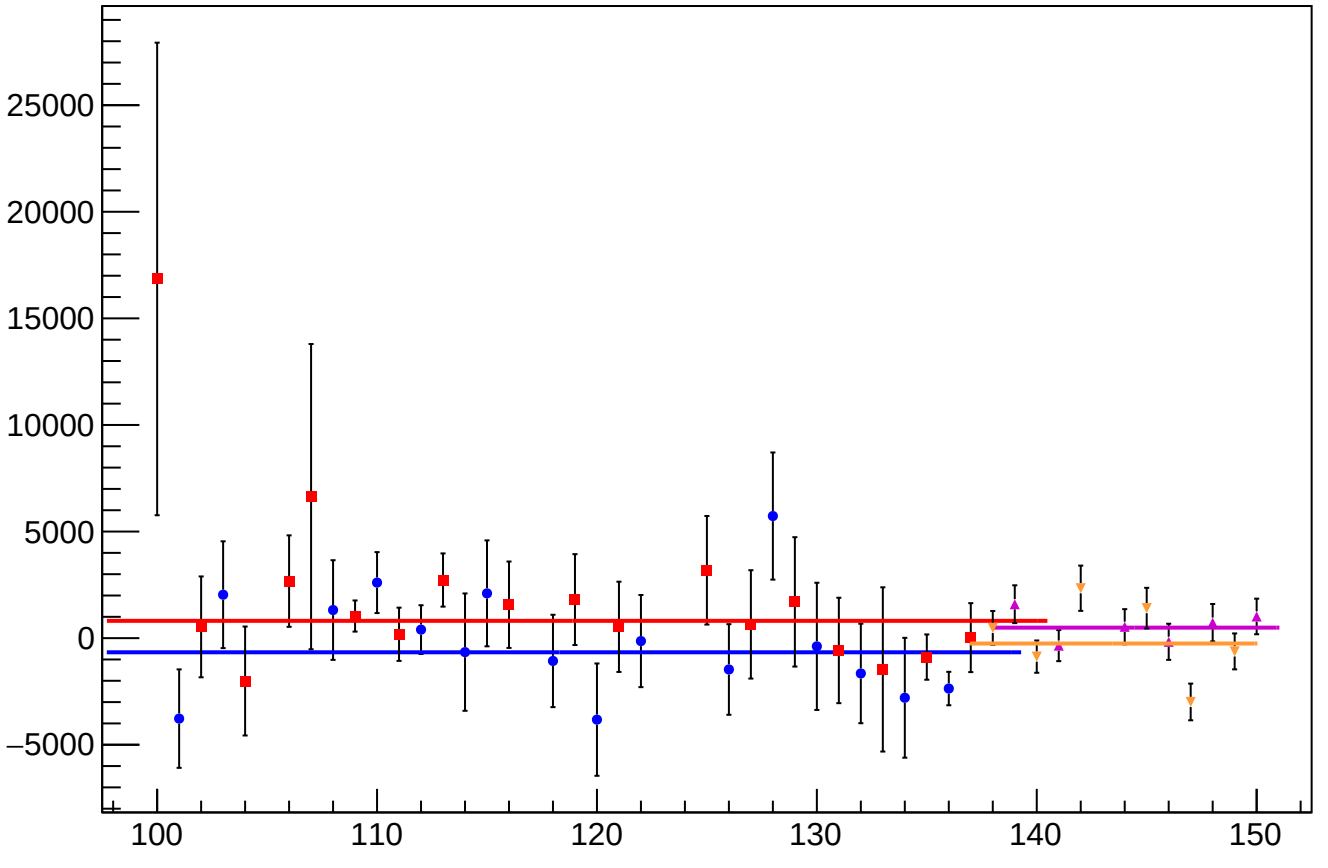
Left: 1807.572+/-0.408 $\chi^2$/NDF: 8091.2/11

Right: 1838.838+/-0.345 $\chi^2$/NDF: 420241.4/33

In: 1823.383+/-0.367 $\chi^2$/NDF:298191.3/21

Out: 1828.351+/-0.379 $\chi^2$/NDF:133472.0/23

All: 1825.785+/-0.264 $\chi^2$/NDF: 431752.0/45




Right In: -663.489+/-445.903 $\chi^2$/NDF: 22.8/15

Left Out: -251.689+/-351.823 $\chi^2$/NDF:20.8/5

Right Out: 812.187+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 492.858+/-337.969 $\chi^2$/NDF:4.0/5

Left: 135.532+/-243.731 $\chi^2$/NDF: 27.1/11

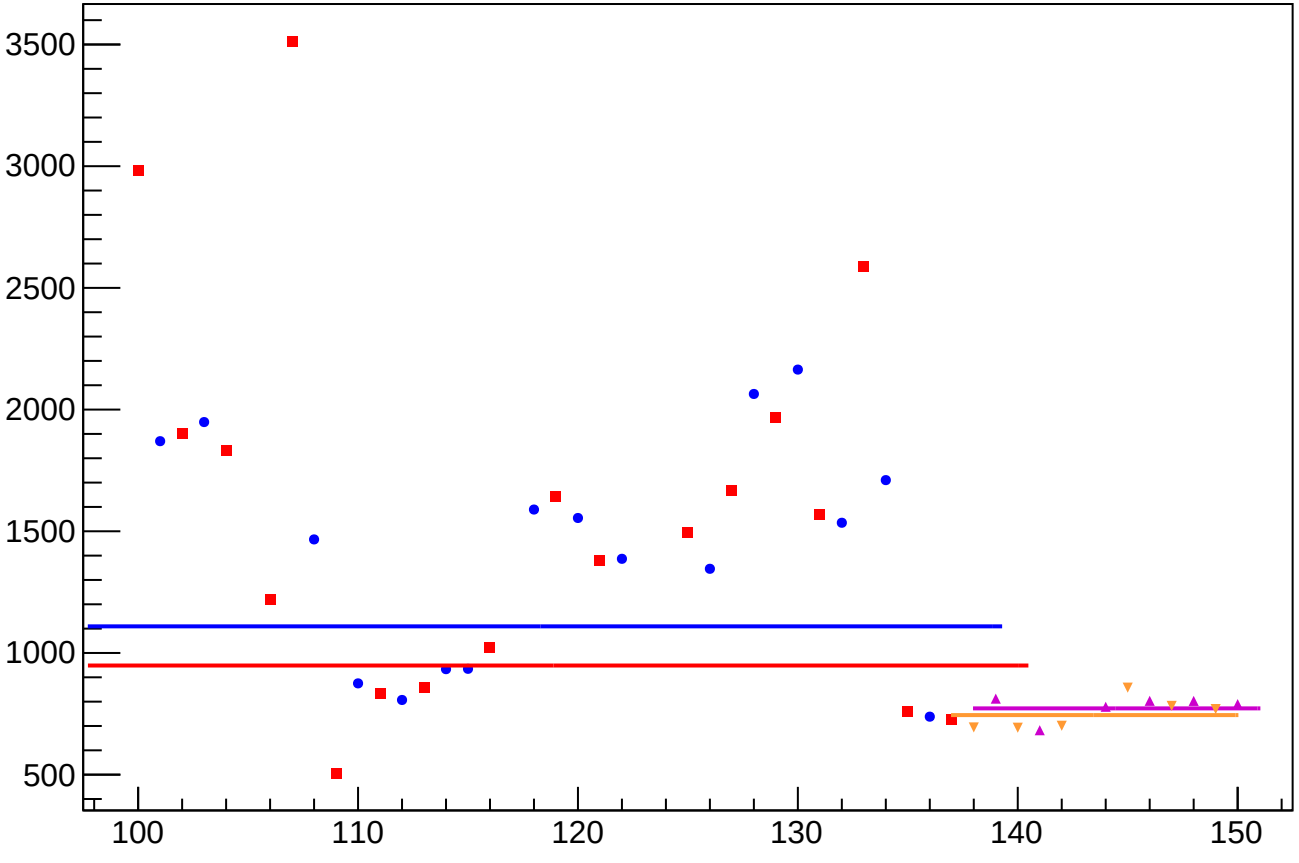
Right: 159.335+/-296.587 $\chi^2$/NDF: 41.1/33

In: 70.944+/-269.345 $\chi^2$/NDF:31.0/21

Out: 216.050+/-263.361 $\chi^2$/NDF:37.1/23

All: 145.127+/-188.304 $\chi^2$/NDF: 68.2/45

asym_us_dd_atlr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1109.362+/-0.315 $\chi^2$/NDF: 1973363.9/15

Left Out: 744.762+/-0.249 $\chi^2$/NDF:54531.9/5

Right Out: 948.438+/-0.281 $\chi^2$/NDF: 3053670.4/17

Left In: 772.324+/-0.239 $\chi^2$/NDF:40630.4/5

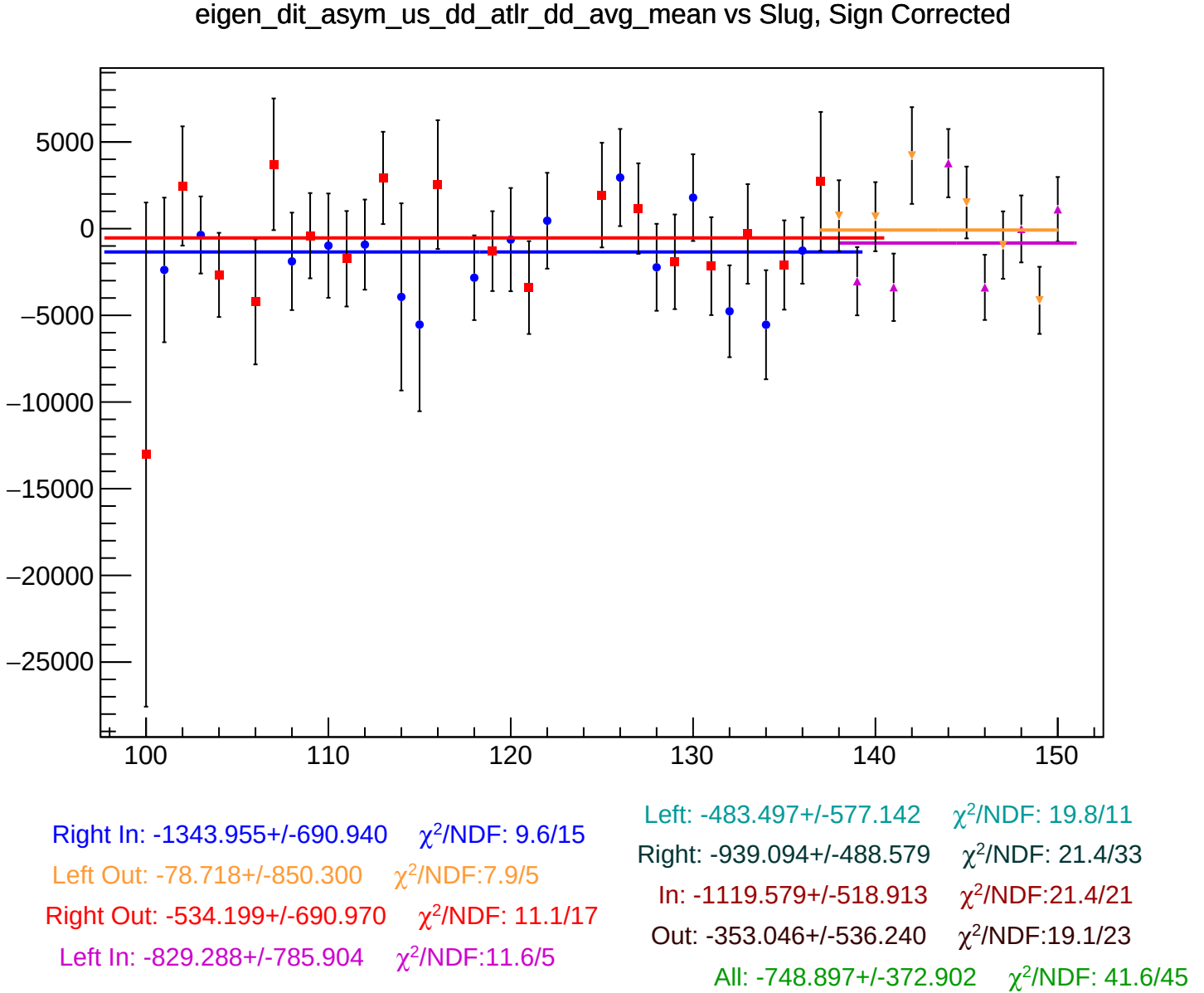
Left: 759.096+/-0.172 $\chi^2$/NDF: 101545.8/11

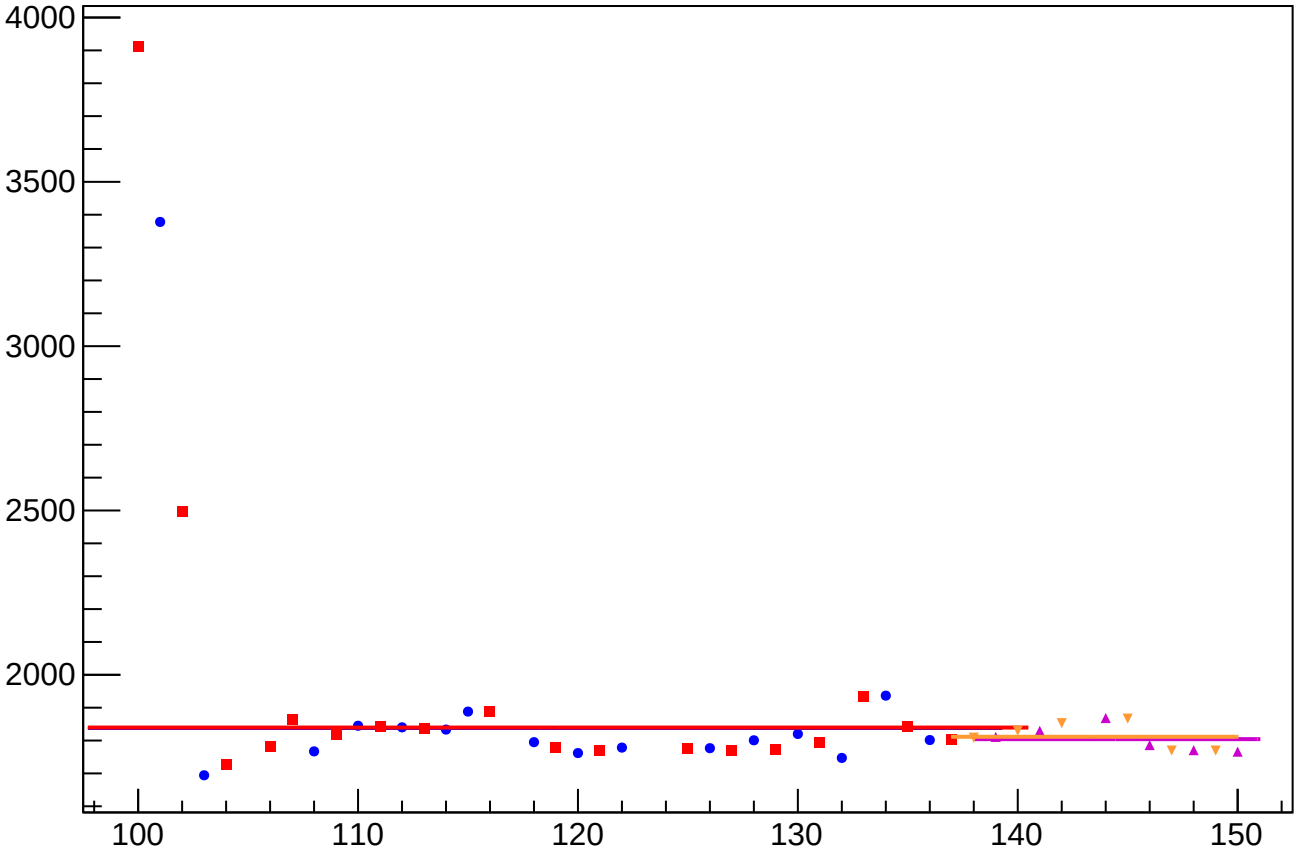
Right: 1019.632+/-0.210 $\chi^2$/NDF: 5172280.0/33

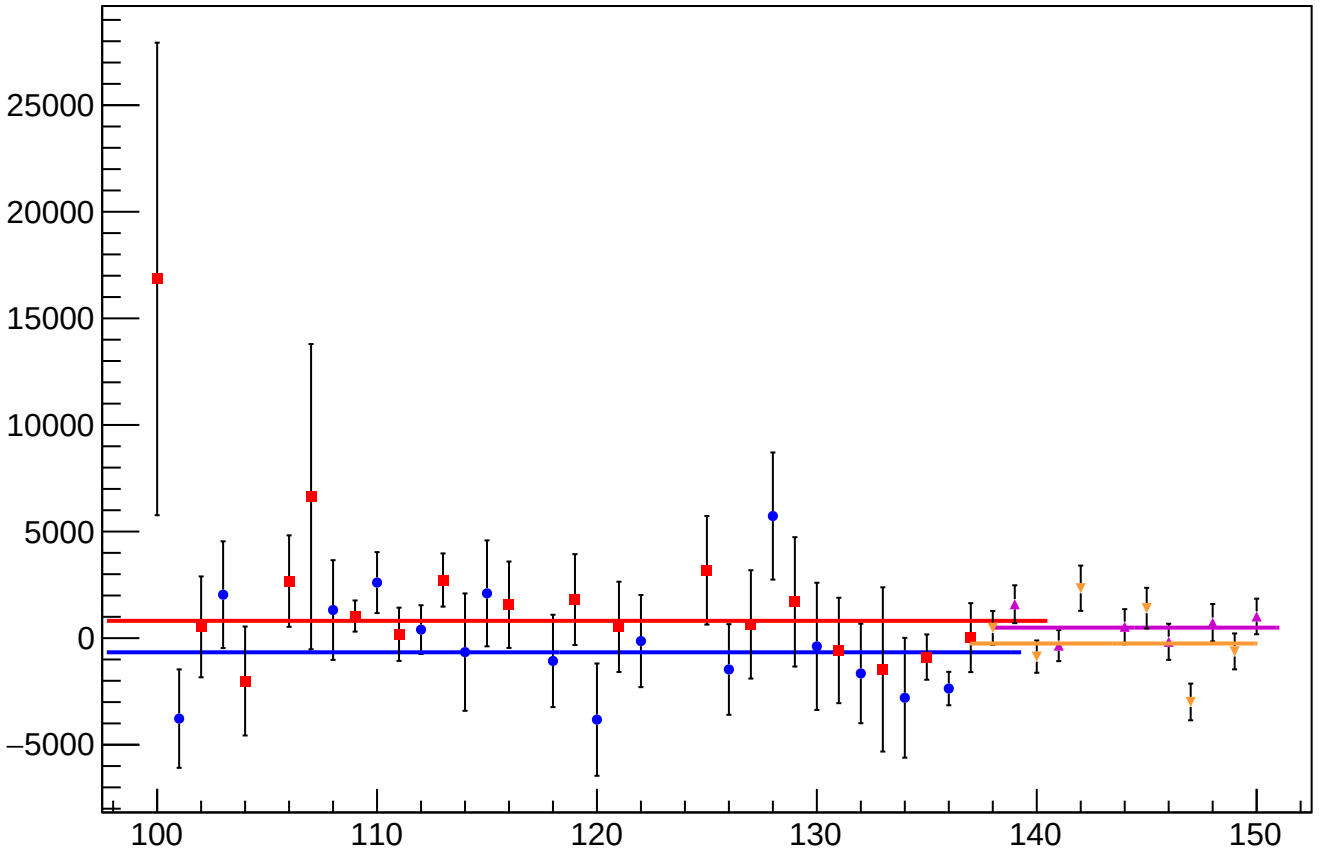
In: 895.298+/-0.190 $\chi^2$/NDF:2739714.4/21

Out: 834.310+/-0.186 $\chi^2$/NDF:3402898.6/23

All: 864.119+/-0.133 $\chi^2$/NDF: 6195037.3/45


eigen_dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
Right In: -1343.955+/-690.940 χ²/NDF: 9.6/15
Left Out: -78.718+/-850.300 χ²/NDF:7.9/5
Right Out: -534.199+/-690.970 χ²/NDF: 11.1/17
Left In: -829.288+/-785.904 χ²/NDF:11.6/5
Left: -483.497+/-577.142 χ²/NDF: 19.8/11
Right: -939.094+/-488.579 χ²/NDF: 21.4/33
In: -1119.579+/-518.913 χ²/NDF:21.4/21
Out: -353.046+/-536.240 χ²/NDF:19.1/23
All: -748.897+/-372.902 χ²/NDF: 41.6/45


eigen_dit_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
100
110
120
130
140
150
Right In: 1838.159+/-0.489 χ²/NDF: 291984.0/15
Left Out: 1811.442+/-0.601 χ²/NDF:3905.2/5
Right Out: 1839.517+/-0.489 χ²/NDF: 128253.6/17
Left In: 1804.265+/-0.556 χ²/NDF:4109.1/5
Left: 1807.572+/-0.408 χ²/NDF: 8091.2/11
Right: 1838.838+/-0.345 χ²/NDF: 420241.4/33
In: 1823.383+/-0.367 χ²/NDF:298191.3/21
Out: 1828.351+/-0.379 χ²/NDF:133472.0/23
All: 1825.785+/-0.264 χ²/NDF: 431752.0/45




Right In: -663.476+/-445.904 $\chi^2$/NDF: 22.8/15

Left Out: -251.695+/-351.824 $\chi^2$/NDF:20.8/5

Right Out: 812.194+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 492.856+/-337.970 $\chi^2$/NDF:4.0/5

Left: 135.529+/-243.731 $\chi^2$/NDF: 27.1/11

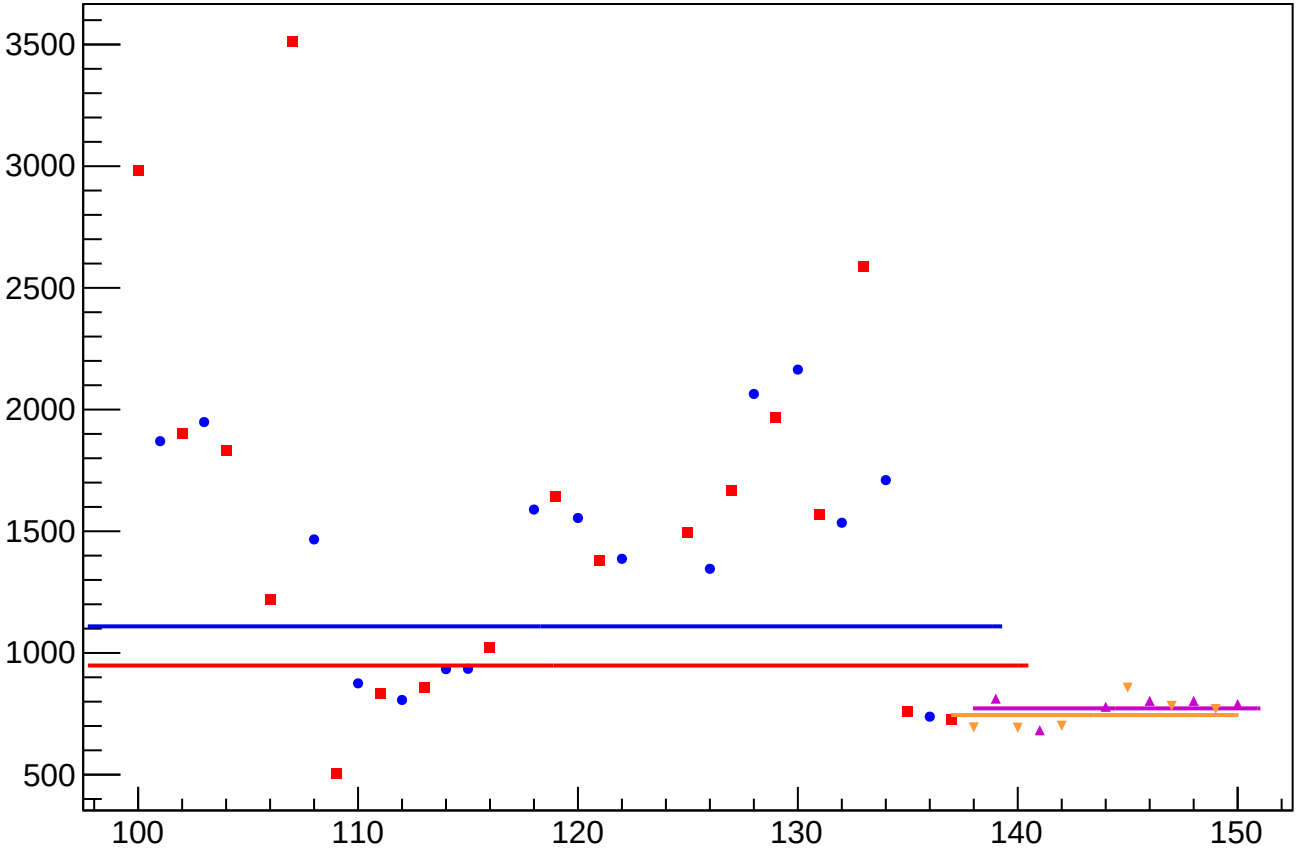
Right: 159.344+/-296.588 $\chi^2$/NDF: 41.1/33

In: 70.947+/-269.345 $\chi^2$/NDF:31.0/21

Out: 216.052+/-263.362 $\chi^2$/NDF:37.1/23

All: 145.129+/-188.305 $\chi^2$/NDF: 68.2/45

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1109.365+/-0.315 $\chi^2$/NDF: 1973324.5/15

Left Out: 744.766+/-0.249 $\chi^2$/NDF:54524.6/5

Right Out: 948.441+/-0.281 $\chi^2$/NDF: 3053644.5/17

Left In: 772.325+/-0.239 $\chi^2$/NDF:40630.6/5

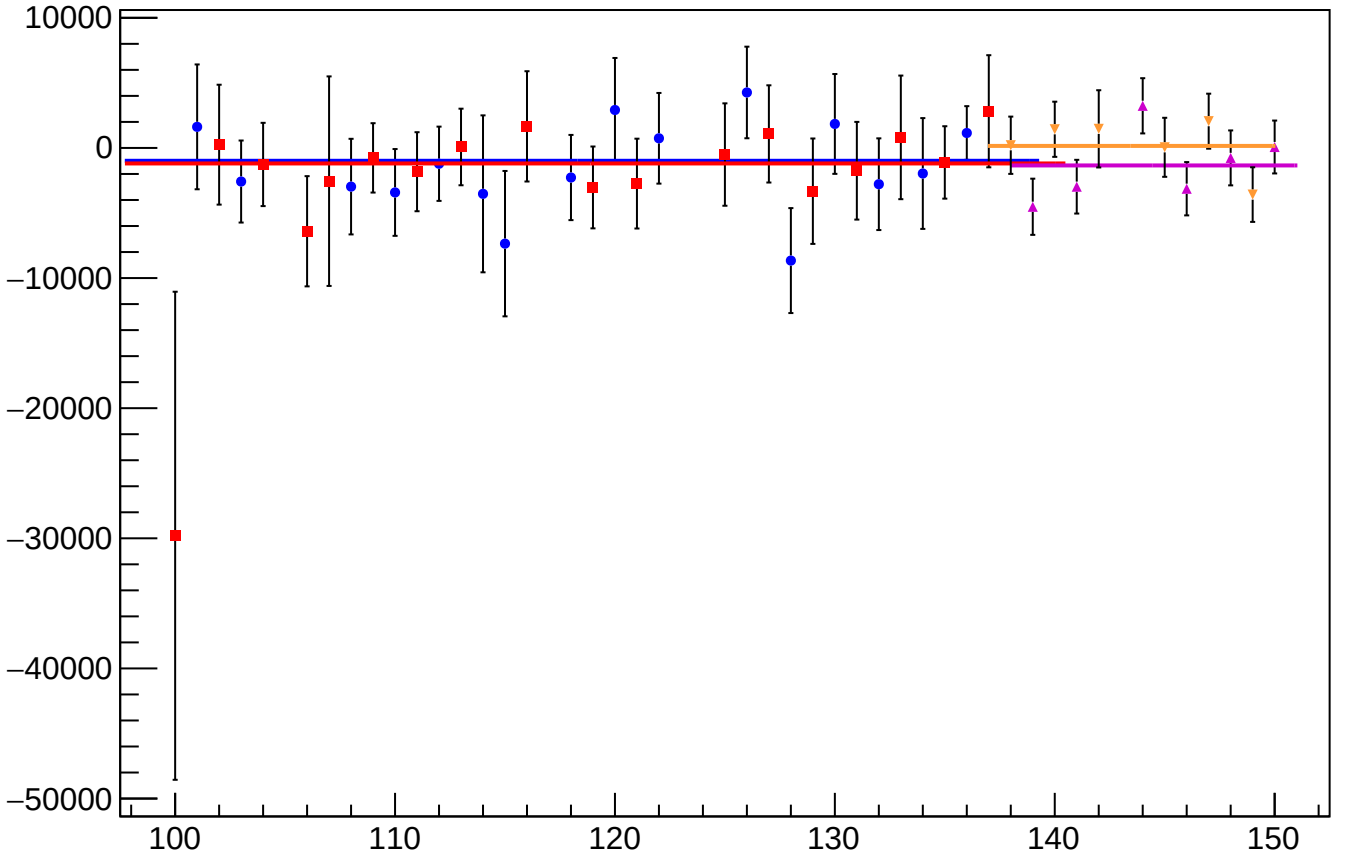
Left: 759.099+/-0.172 $\chi^2$/NDF: 101537.4/11

Right: 1019.635+/-0.210 $\chi^2$/NDF: 5172215.4/33

In: 895.300+/-0.190 $\chi^2$/NDF:2739680.5/21

Out: 834.313+/-0.186 $\chi^2$/NDF:3402858.4/23

All: 864.122+/-0.133 $\chi^2$/NDF: 6194959.7/45




Right In: -987.532+/-873.840 $\chi^2$/NDF: 12.0/15

Left Out: 155.503+/-917.578 $\chi^2$/NDF:4.5/5

Right Out: -1192.173+/-870.432 $\chi^2$/NDF: 7.0/17

Left In: -1344.891+/-852.386 $\chi^2$/NDF:8.8/5

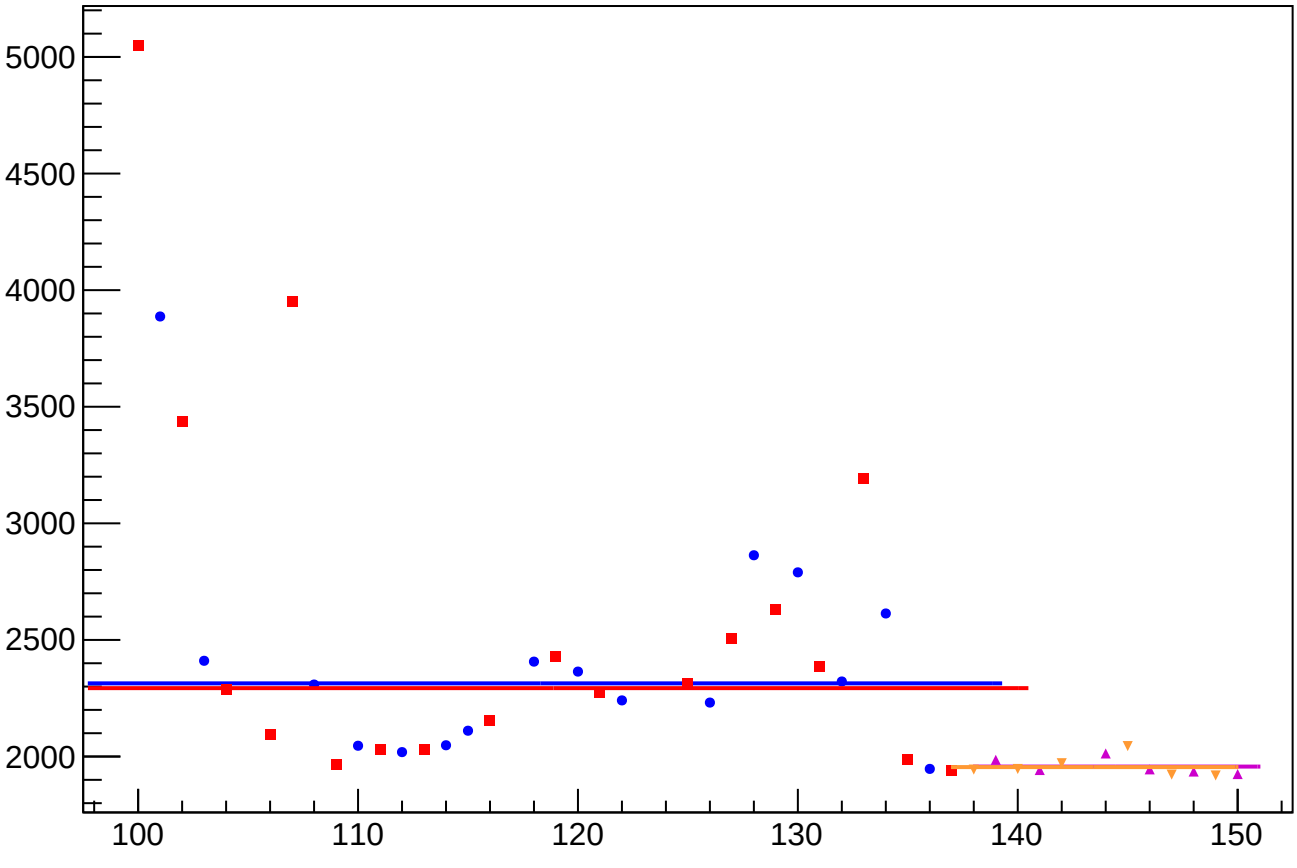
Left: -649.882+/-624.504 $\chi^2$/NDF: 14.8/11

Right: -1090.252+/-616.690 $\chi^2$/NDF: 19.0/33

In: -1170.652+/-610.171 $\chi^2$/NDF:20.9/21

Out: -553.845+/-631.498 $\chi^2$/NDF:12.6/23

All: -872.840+/-438.802 $\chi^2$/NDF: 34.0/45




Right In: 2313.740+/-0.618 $\chi^2$/NDF: 402756.6/15

Left Out: 1954.698+/-0.649 $\chi^2$/NDF:4331.5/5

Right Out: 2293.273+/-0.615 $\chi^2$/NDF: 453202.3/17

Left In: 1956.883+/-0.603 $\chi^2$/NDF:2634.5/5

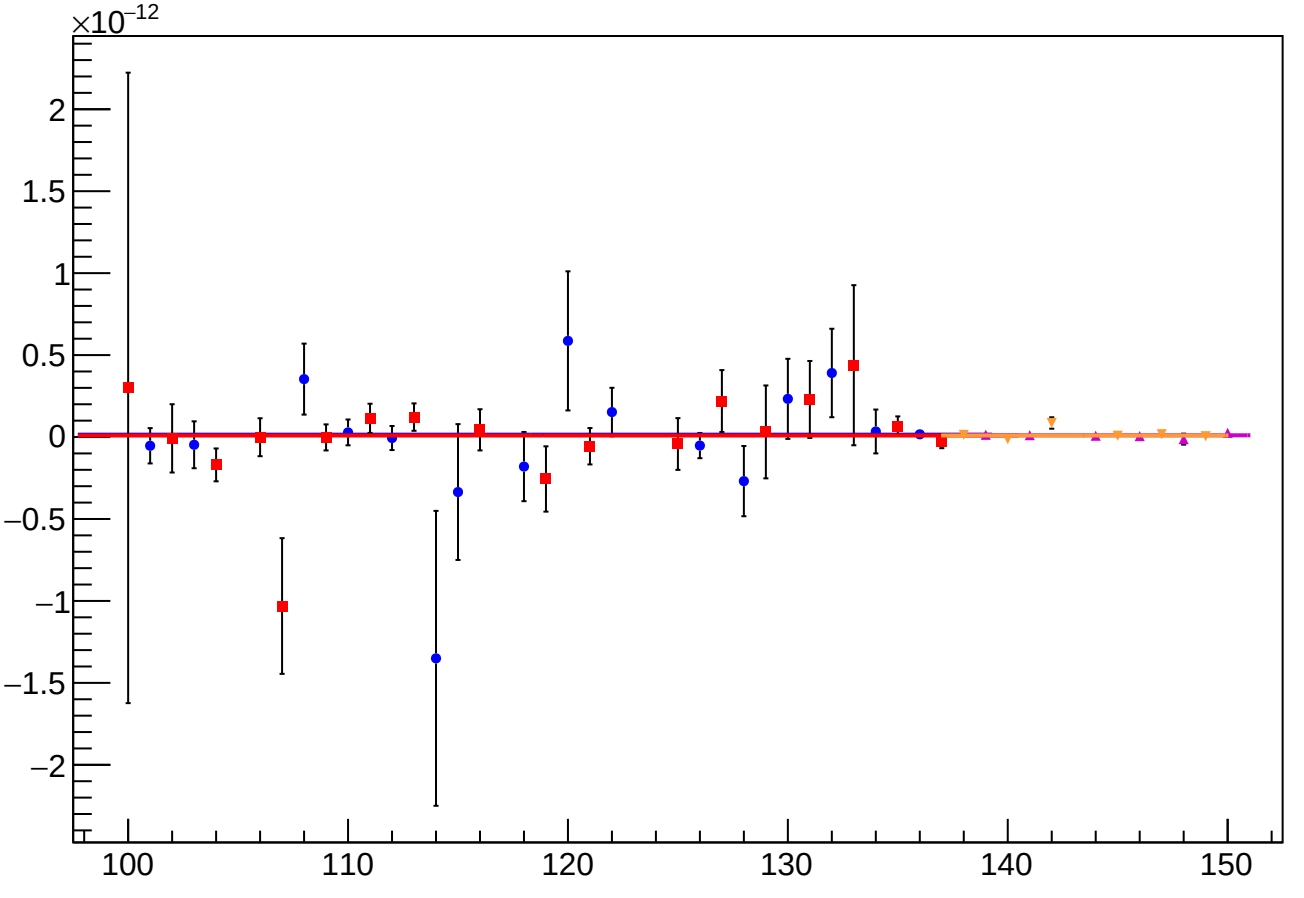
Left: 1955.871+/-0.442 $\chi^2$/NDF: 6972.1/11

Right: 2303.467+/-0.436 $\chi^2$/NDF: 856509.6/33

In: 2130.878+/-0.431 $\chi^2$/NDF:576310.0/21

Out: 2132.908+/-0.447 $\chi^2$/NDF:600862.2/23

All: 2131.858+/-0.310 $\chi^2$/NDF: 1177182.9/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.5/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/5

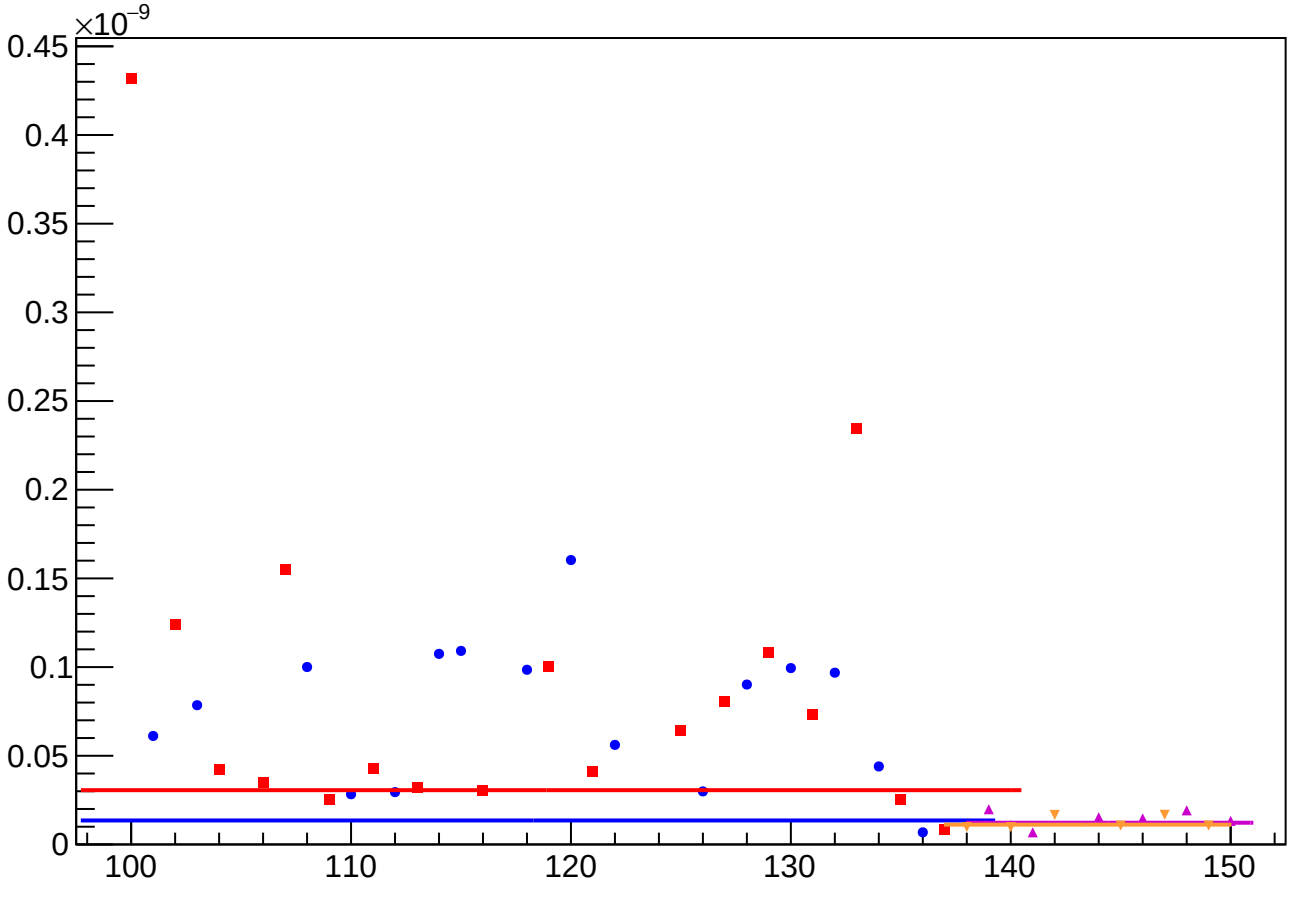
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.5/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:16.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:26.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 42.0/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3416094.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:143158.3/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2349183.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:553863.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 711419.6/11

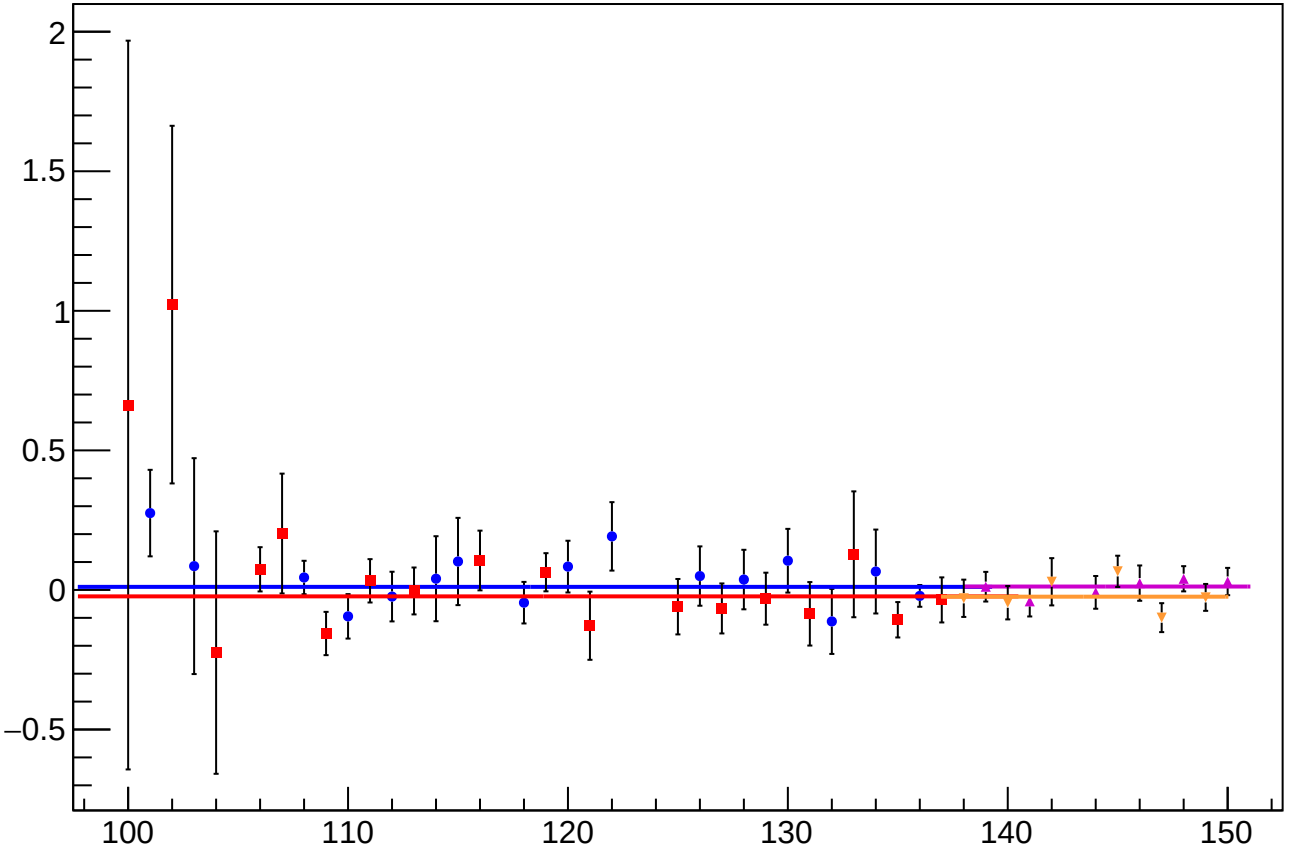
Right: 0.000+/-0.000 $\chi^2$/NDF: 6517274.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:3981638.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3635190.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7629892.5/45

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.024+/-0.024 $\chi^2$/NDF:5.3/5

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: 0.012+/-0.022 $\chi^2$/NDF:1.6/5

Left: -0.004+/-0.016 $\chi^2$/NDF: 8.2/11

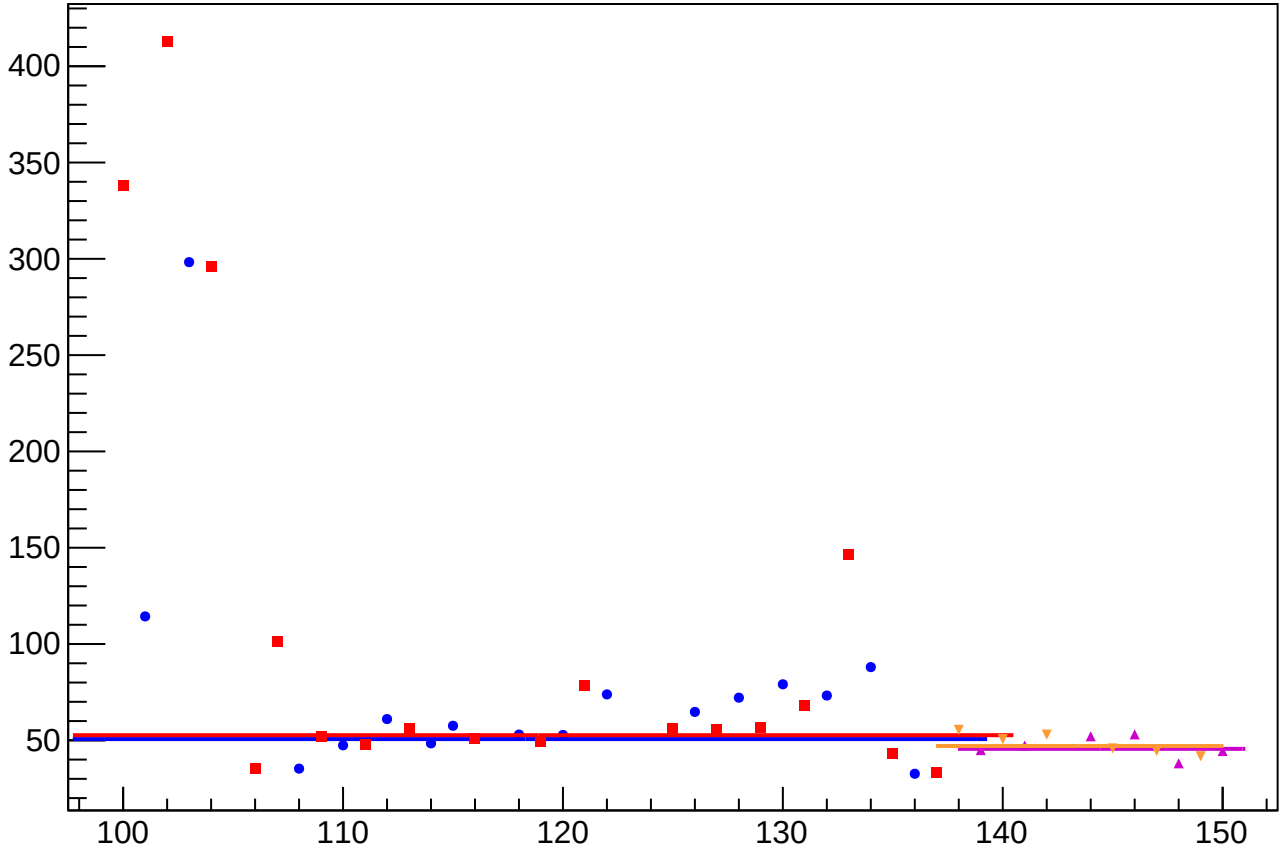
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.012+/-0.015 $\chi^2$/NDF:13.4/21

Out: -0.024+/-0.017 $\chi^2$/NDF:21.2/23

All: -0.005+/-0.011 $\chi^2$/NDF: 37.0/45

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 47.066+/-0.017 $\chi^2$/NDF:78598.4/5

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 45.572+/-0.015 $\chi^2$/NDF:111609.6/5

Left: 46.247+/-0.011 $\chi^2$/NDF: 194523.1/11

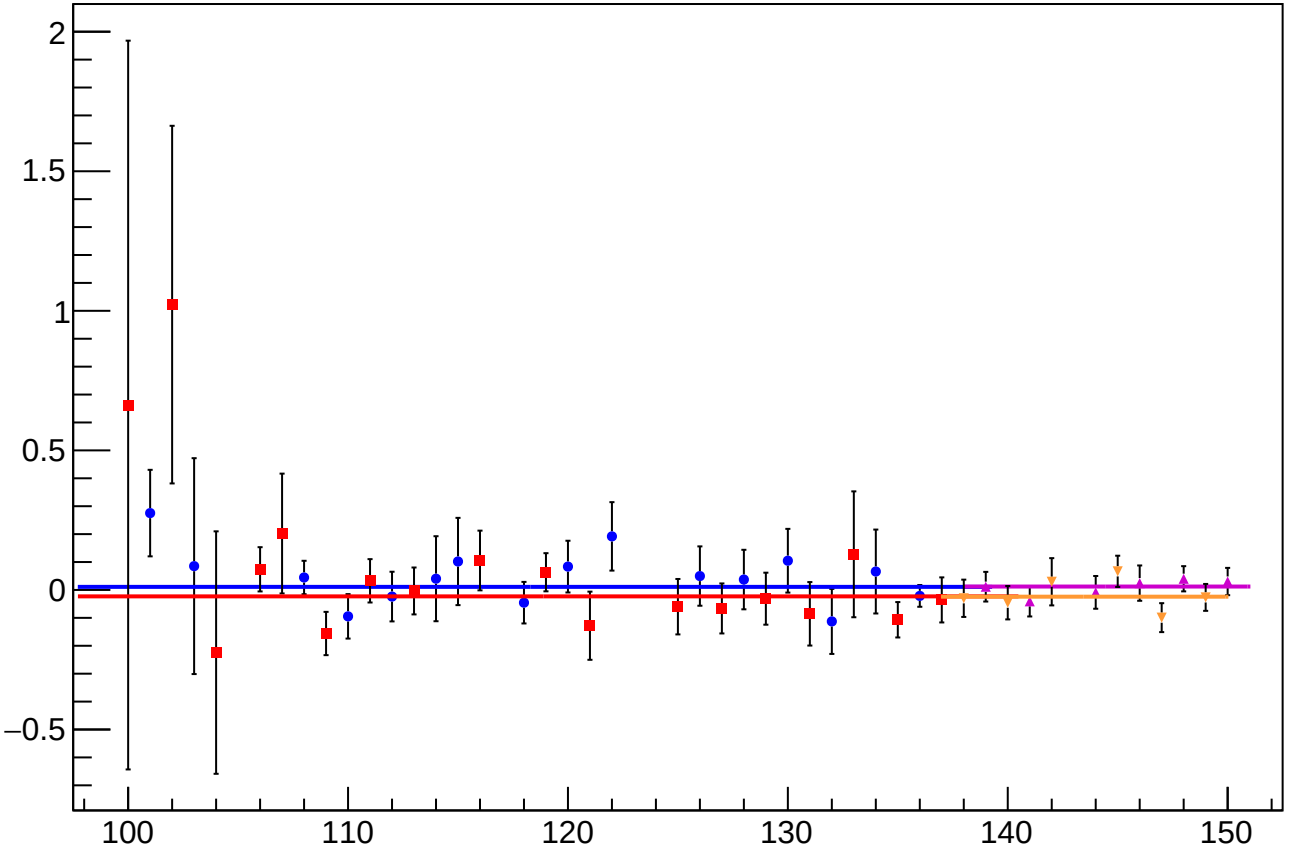
Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 48.078+/-0.011 $\chi^2$/NDF:2432506.8/21

Out: 49.949+/-0.012 $\chi^2$/NDF:2347513.1/23

All: 48.943+/-0.008 $\chi^2$/NDF: 4793715.5/45

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.024+/-0.024 $\chi^2$/NDF:5.3/5

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: 0.012+/-0.022 $\chi^2$/NDF:1.6/5

Left: -0.004+/-0.016 $\chi^2$/NDF: 8.2/11

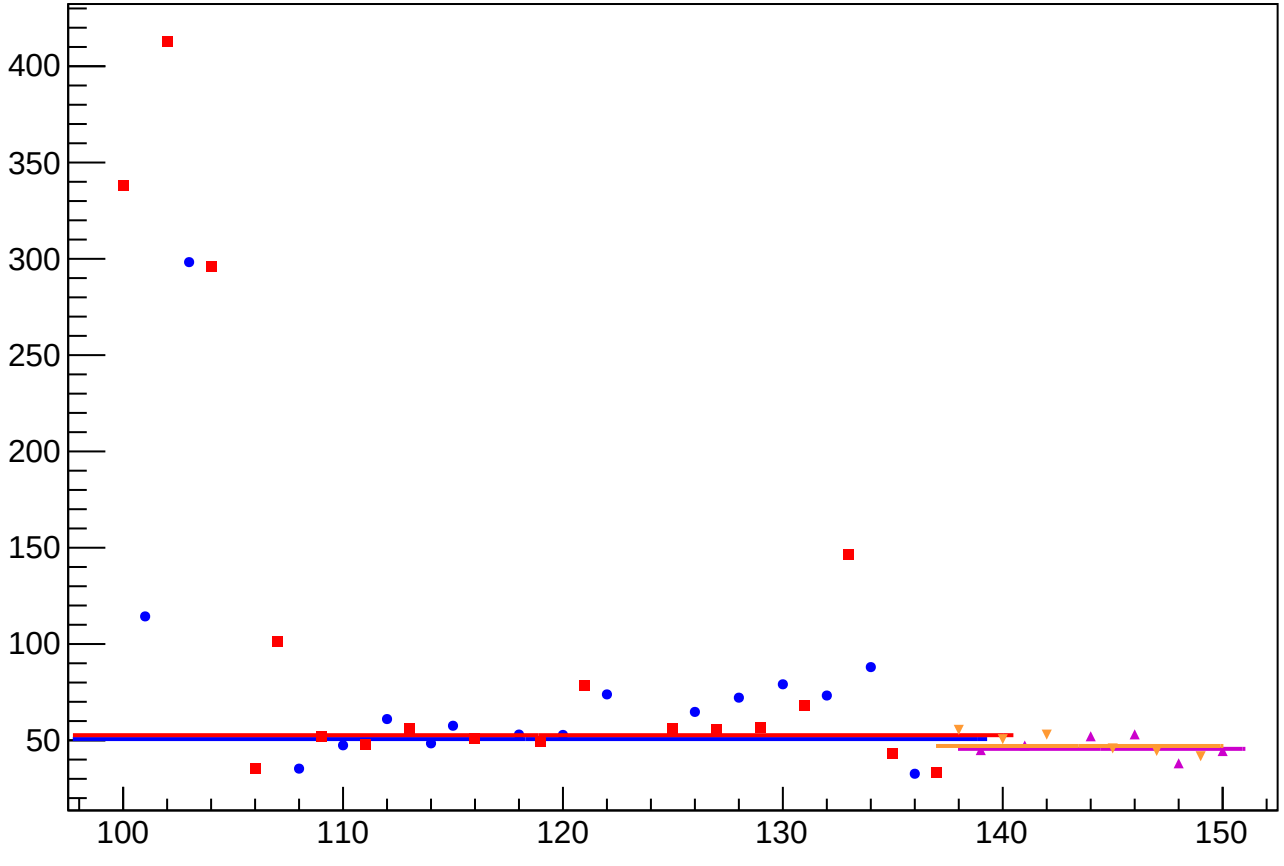
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.012+/-0.015 $\chi^2$/NDF:13.4/21

Out: -0.024+/-0.017 $\chi^2$/NDF:21.2/23

All: -0.005+/-0.011 $\chi^2$/NDF: 37.0/45

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 47.066+/-0.017 $\chi^2$/NDF:78598.4/5

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 45.572+/-0.015 $\chi^2$/NDF:111609.6/5

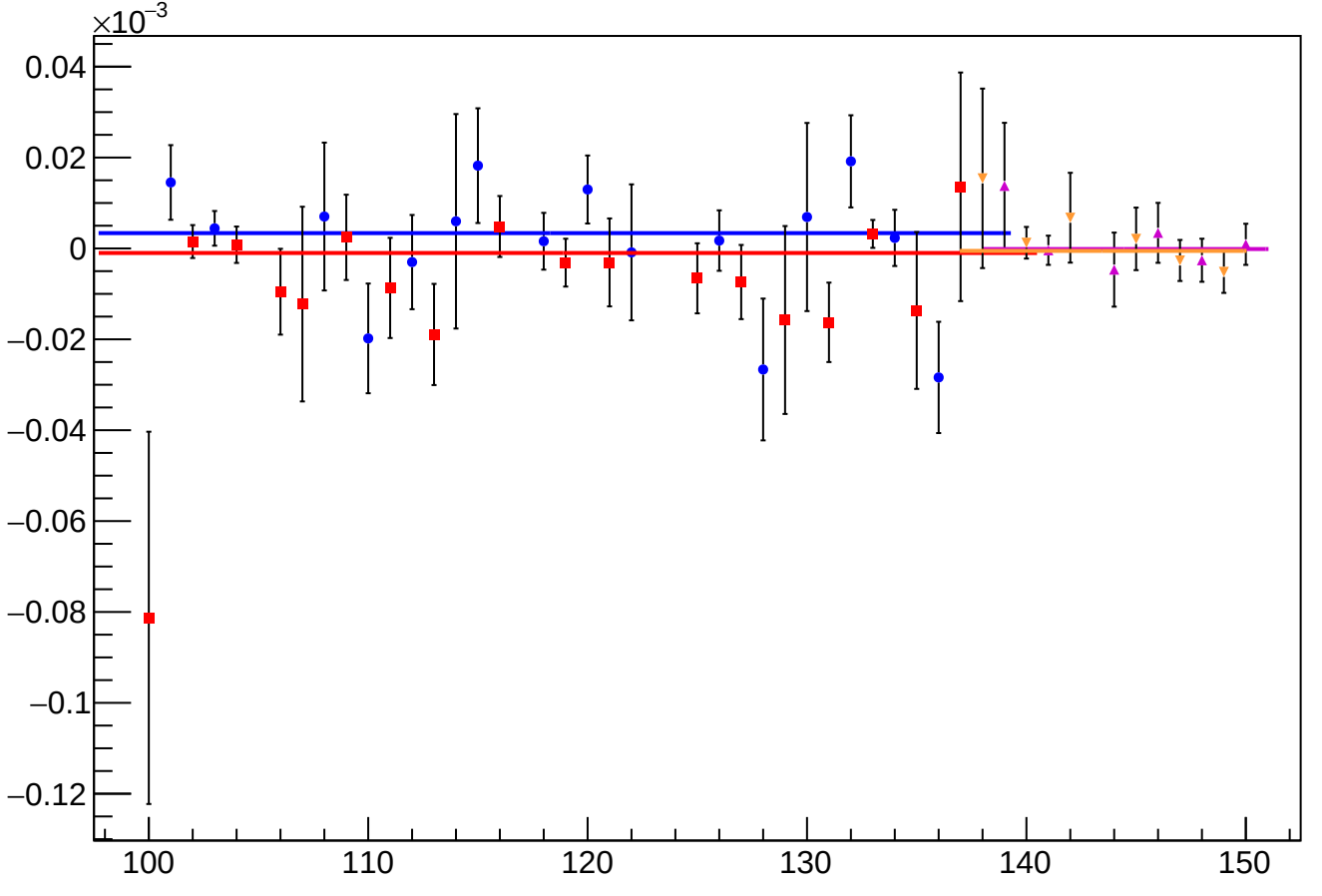
Left: 46.247+/-0.011 $\chi^2$/NDF: 194523.1/11

Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 48.078+/-0.011 $\chi^2$/NDF:2432506.8/21

Out: 49.949+/-0.012 $\chi^2$/NDF:2347513.1/23

All: 48.943+/-0.008 $\chi^2$/NDF: 4793715.5/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.8/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.9/5

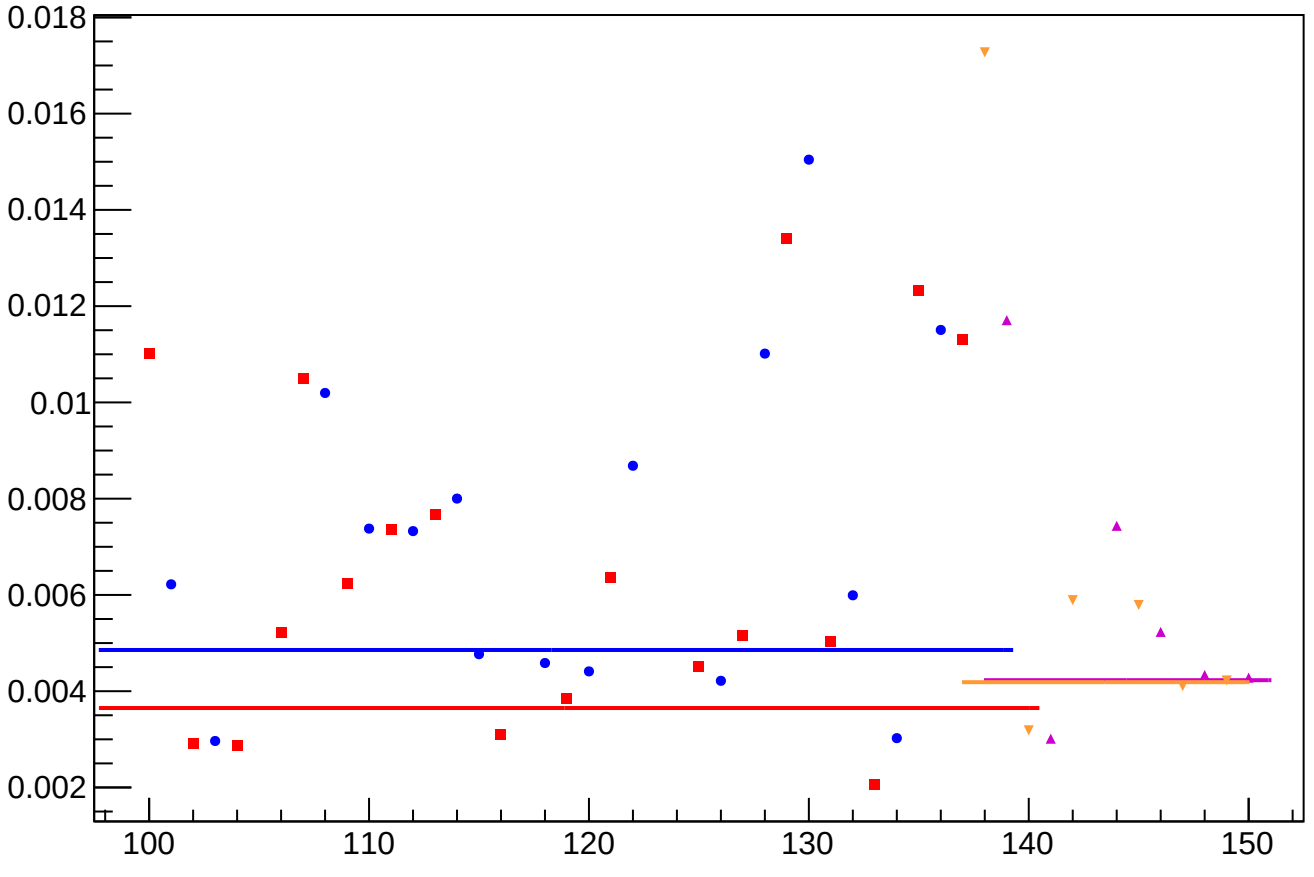
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.8/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:25.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 47.3/45




Right In: 0.005+/-0.000 $\chi^2$/NDF: 2745089.6/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1211970.5/5

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3108848.8/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1224763.2/5

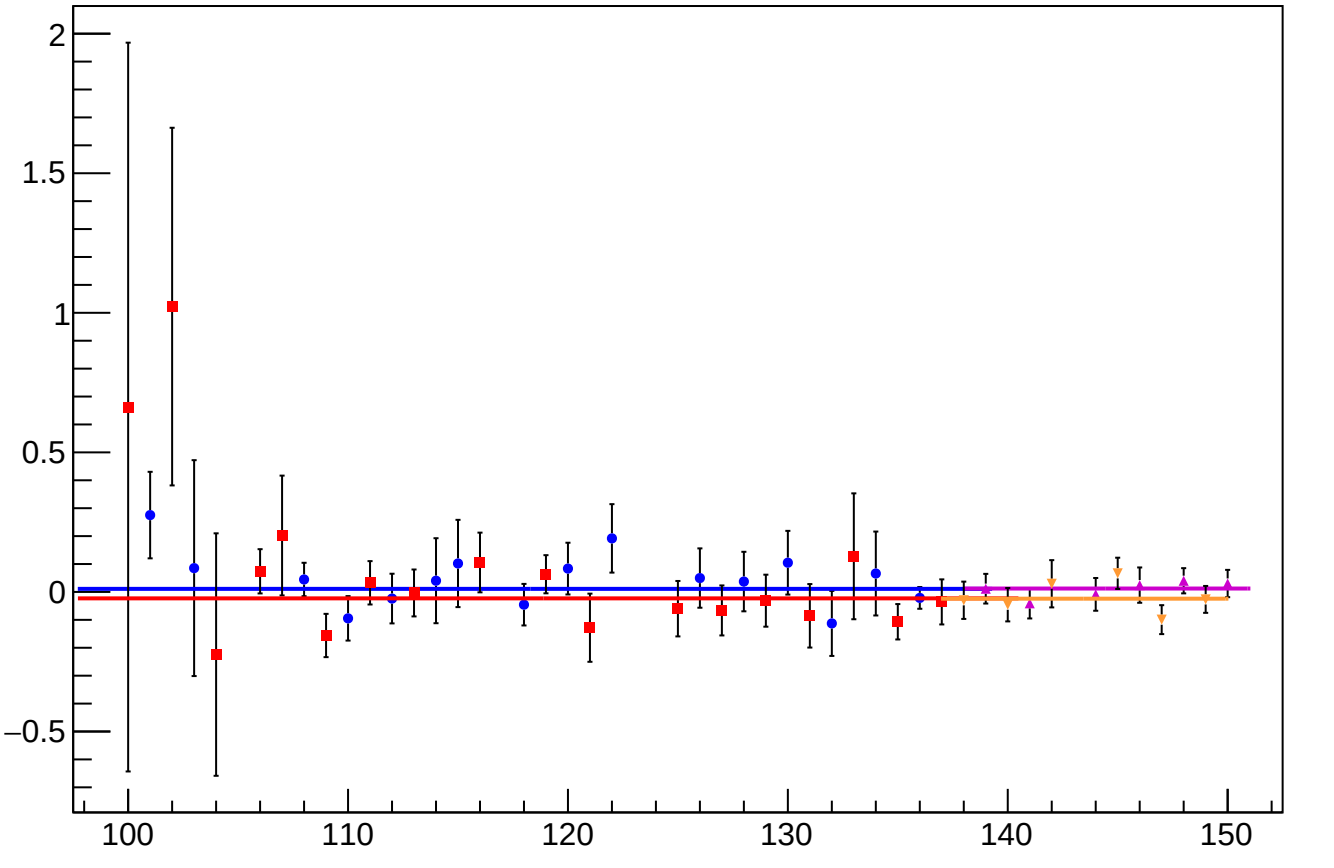
Left: 0.004+/-0.000 $\chi^2$/NDF: 2437117.1/11

Right: 0.004+/-0.000 $\chi^2$/NDF: 6282872.0/33

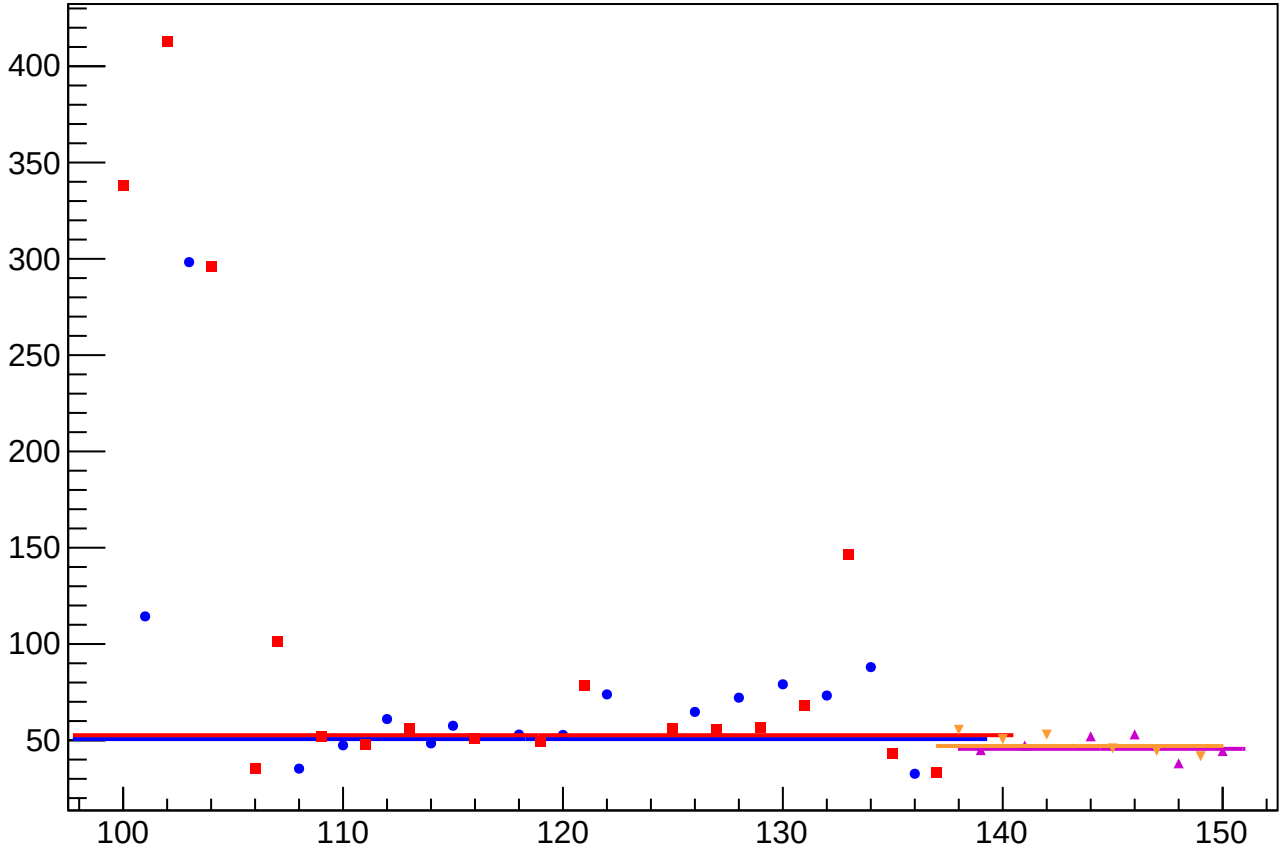
In: 0.005+/-0.000 $\chi^2$/NDF:4061345.7/21

Out: 0.004+/-0.000 $\chi^2$/NDF:4401201.1/23

All: 0.004+/-0.000 $\chi^2$/NDF: 8727798.9/45


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2
1.5
1
0.5
0
−0.5
100
110
120
130
140
150
Right In: 0.011+/-0.022 χ²/NDF: 11.7/15
Left Out: -0.024+/-0.024 χ²/NDF:5.3/5
Right Out: -0.023+/-0.023 χ²/NDF: 15.9/17
Left In: 0.012+/-0.022 χ²/NDF:1.6/5
Left: -0.004+/-0.016 χ²/NDF: 8.2/11
Right: -0.005+/-0.016 χ²/NDF: 28.8/33
In: 0.012+/-0.015 χ²/NDF:13.4/21
Out: -0.024+/-0.017 χ²/NDF:21.2/23
All: -0.005+/-0.011 χ²/NDF: 37.0/45

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 47.066+/-0.017 $\chi^2$/NDF:78627.1/5

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 45.573+/-0.015 $\chi^2$/NDF:111589.0/5

Left: 46.247+/-0.011 $\chi^2$/NDF: 194532.3/11

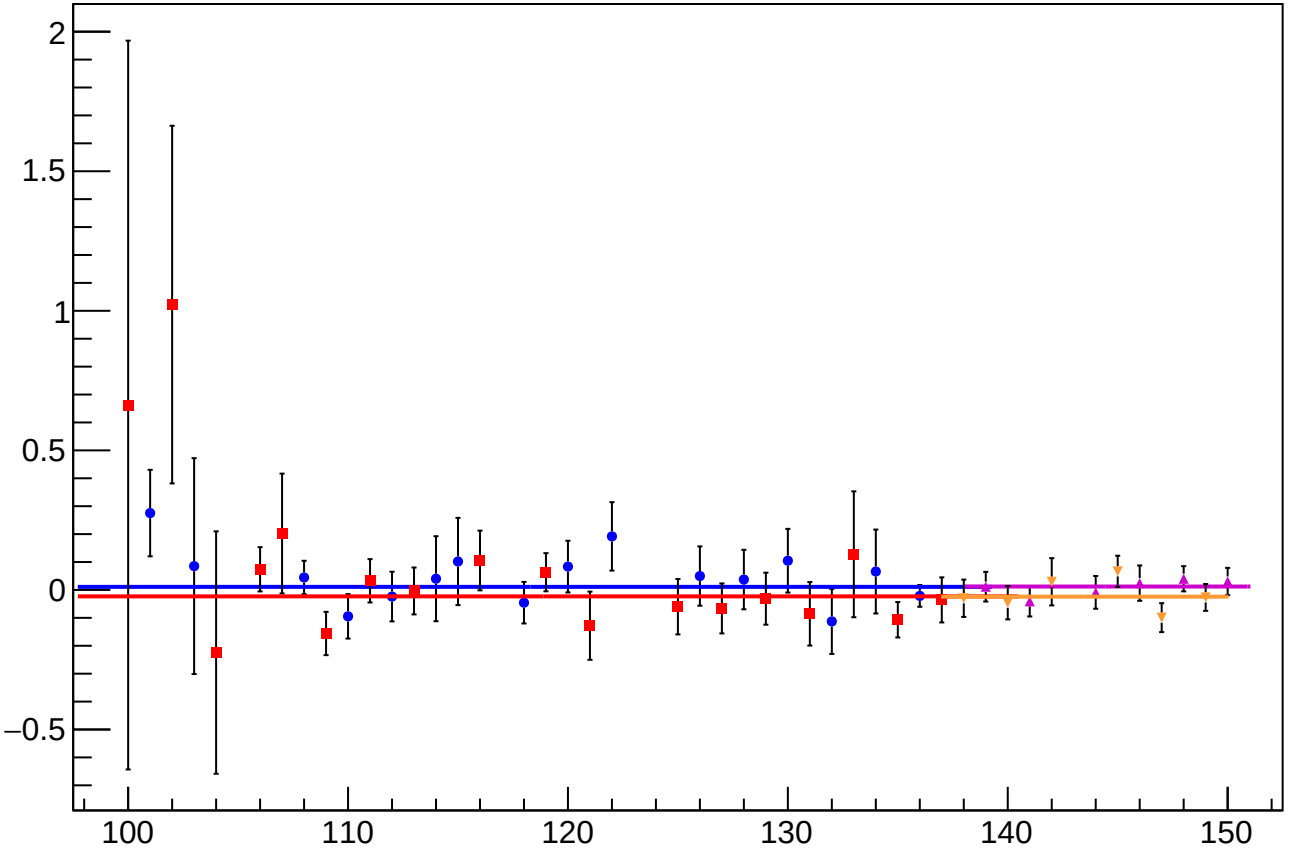
Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

In: 48.078+/-0.011 $\chi^2$/NDF:2432390.0/21

Out: 49.950+/-0.012 $\chi^2$/NDF:2347429.0/23

All: 48.943+/-0.008 $\chi^2$/NDF: 4793518.3/45

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.024+/-0.024 $\chi^2$/NDF:5.3/5

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 15.9/17

Left In: 0.012+/-0.022 $\chi^2$/NDF:1.6/5

Left: -0.004+/-0.016 $\chi^2$/NDF: 8.2/11

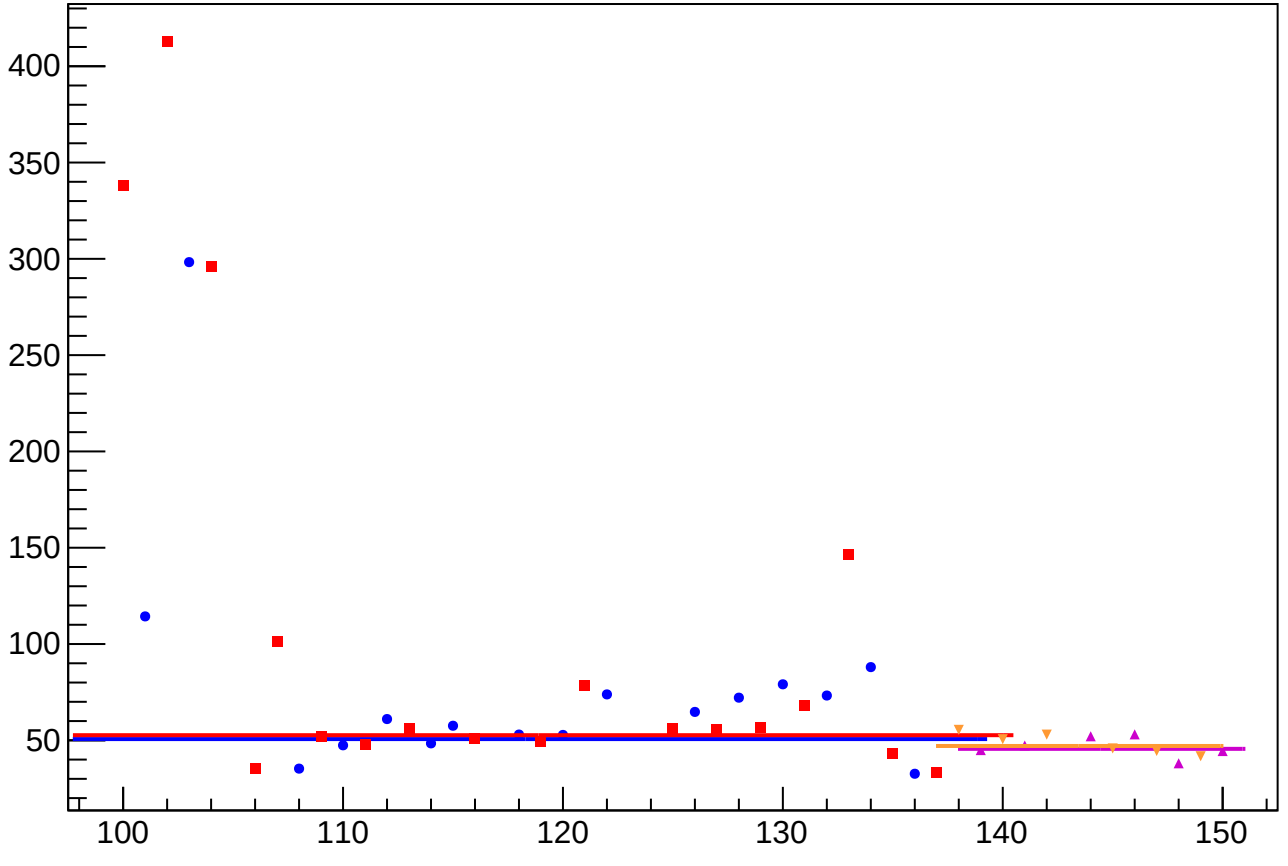
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.012+/-0.015 $\chi^2$/NDF:13.4/21

Out: -0.024+/-0.017 $\chi^2$/NDF:21.2/23

All: -0.005+/-0.011 $\chi^2$/NDF: 37.0/45

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 47.066+/-0.017 $\chi^2$/NDF:78627.1/5

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 45.573+/-0.015 $\chi^2$/NDF:111589.0/5

Left: 46.247+/-0.011 $\chi^2$/NDF: 194532.3/11

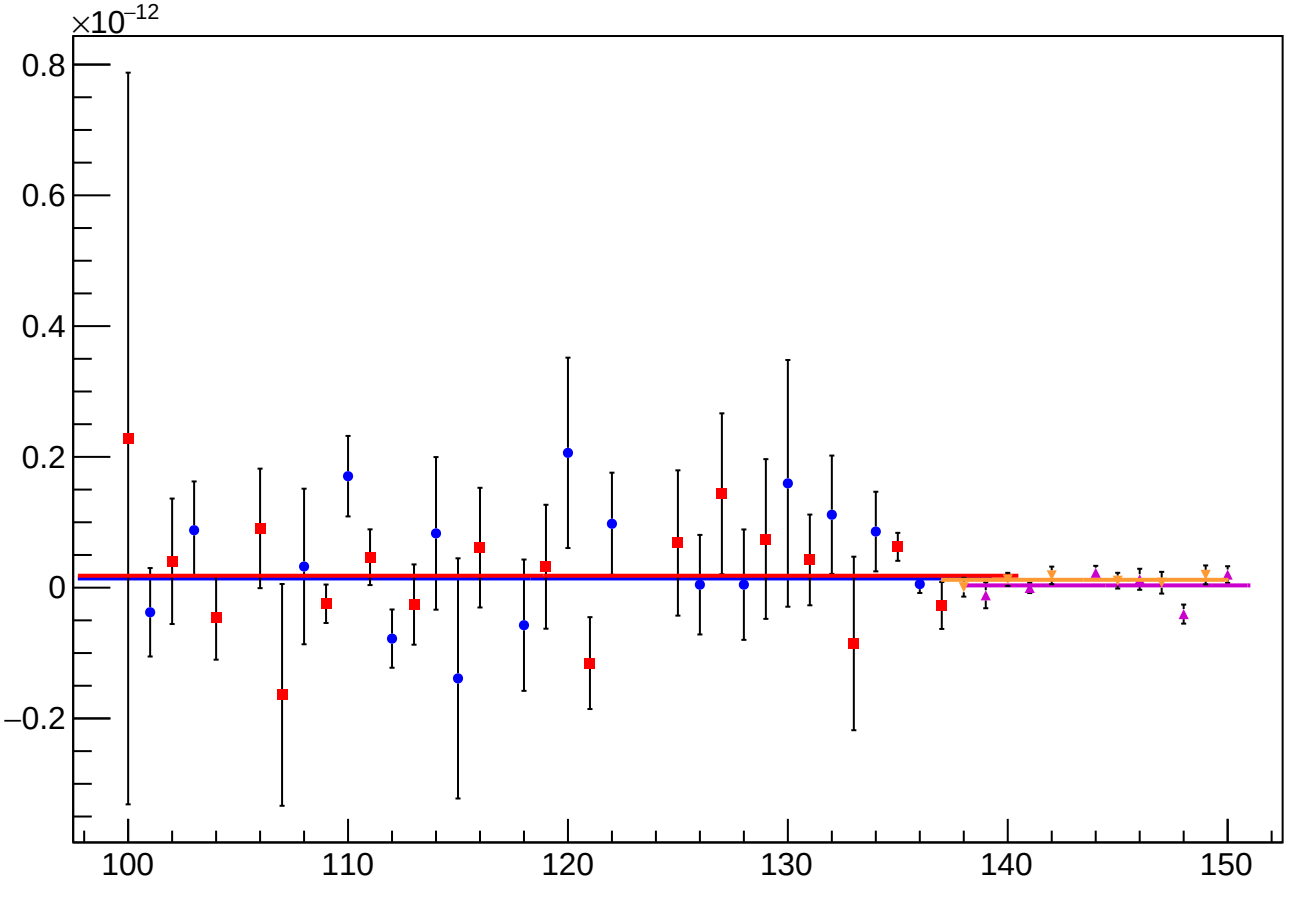
Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

In: 48.078+/-0.011 $\chi^2$/NDF:2432390.0/21

Out: 49.950+/-0.012 $\chi^2$/NDF:2347429.0/23

All: 48.943+/-0.008 $\chi^2$/NDF: 4793518.3/45

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.2/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.2/5

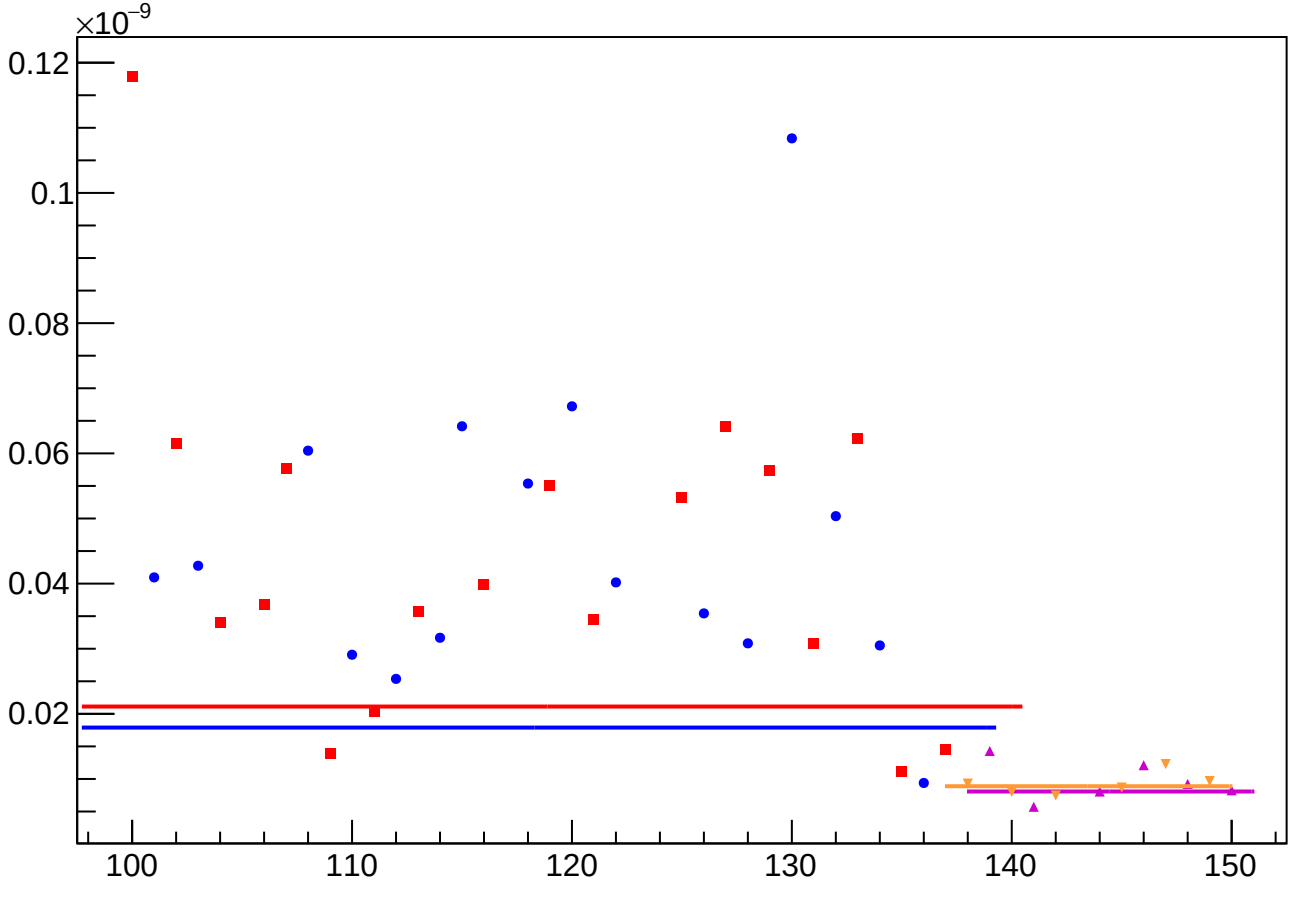
Left: 0.000+/-0.000 $\chi^2$/NDF: 17.9/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:36.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:19.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 57.2/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3398524.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:129958.9/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2621588.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:516572.4/5

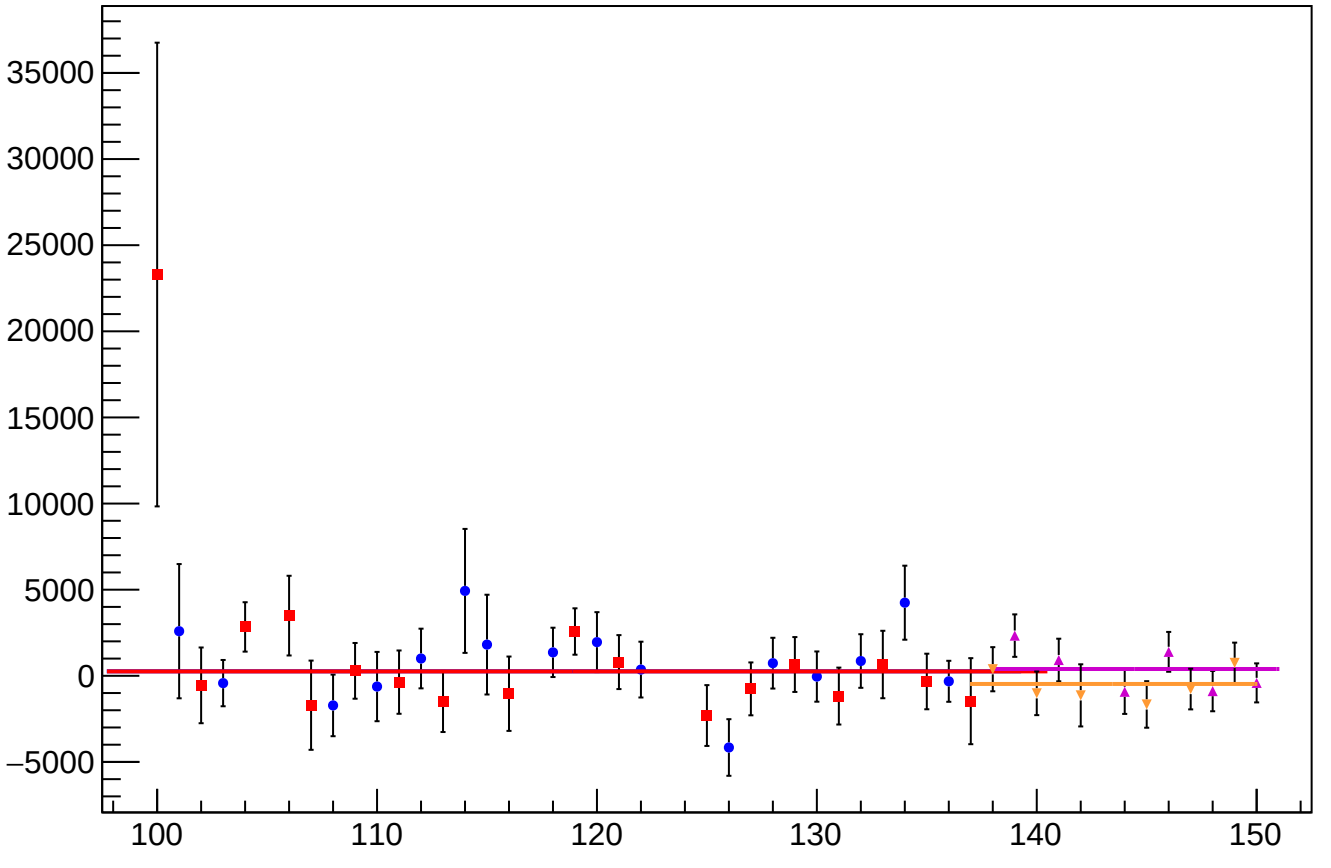
Left: 0.000+/-0.000 $\chi^2$/NDF: 671877.7/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 6093228.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:5184891.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4368547.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9612910.9/45




Right In: 260.797+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -473.400+/-532.366 $\chi^2$/NDF:2.7/5

Right Out: 255.934+/-425.784 $\chi^2$/NDF: 17.4/17

Left In: 395.521+/-489.645 $\chi^2$/NDF:6.2/5

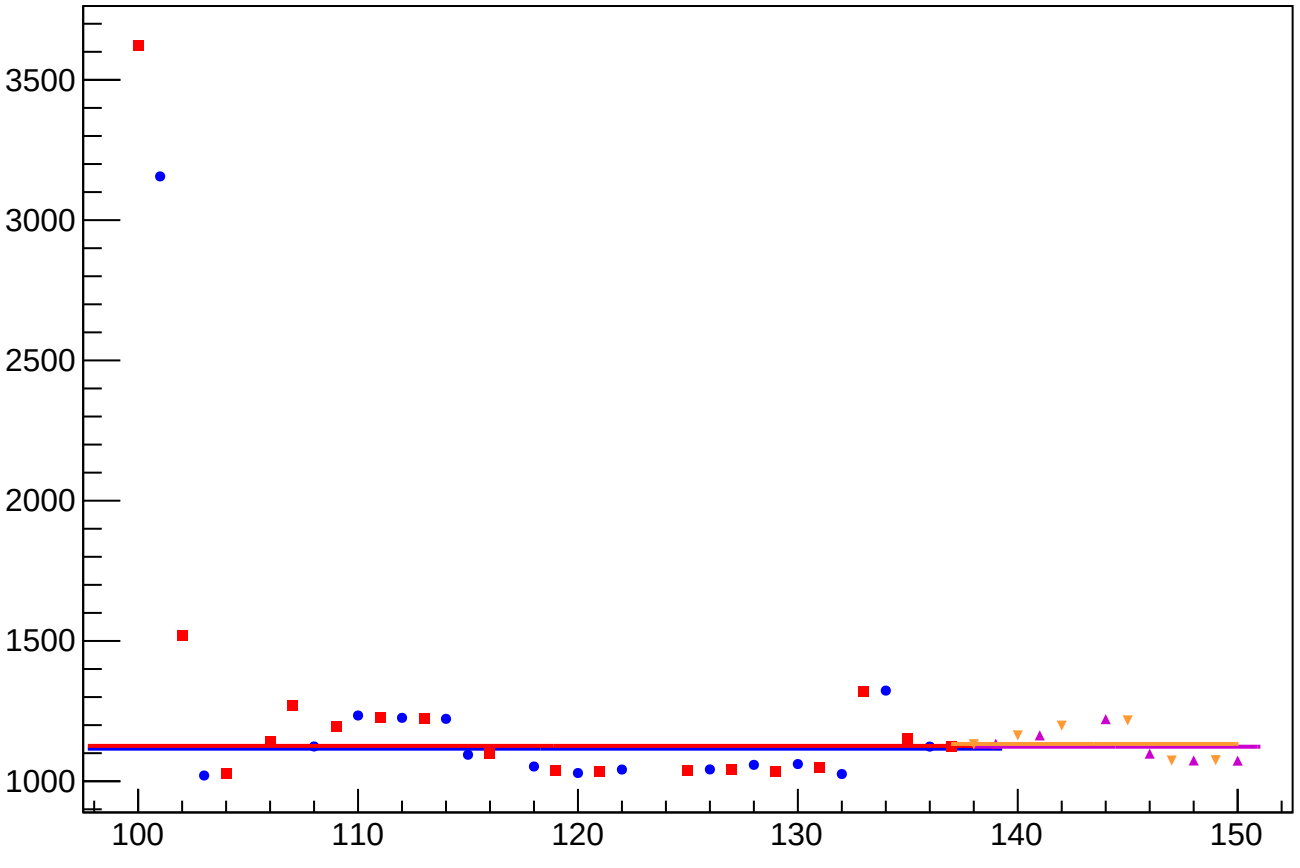
Left: -2.682+/-360.389 $\chi^2$/NDF: 10.3/11

Right: 258.372+/-300.676 $\chi^2$/NDF: 34.3/33

In: 318.631+/-320.812 $\chi^2$/NDF:23.1/21

Out: -28.596+/-332.515 $\chi^2$/NDF:21.2/23

All: 151.235+/-230.875 $\chi^2$/NDF: 44.9/45




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623390.9/15

Left Out: 1132.899+/-0.376 $\chi^2$/NDF:21342.5/5

Right Out: 1126.016+/-0.301 $\chi^2$/NDF: 222106.0/17

Left In: 1123.051+/-0.346 $\chi^2$/NDF:22203.2/5

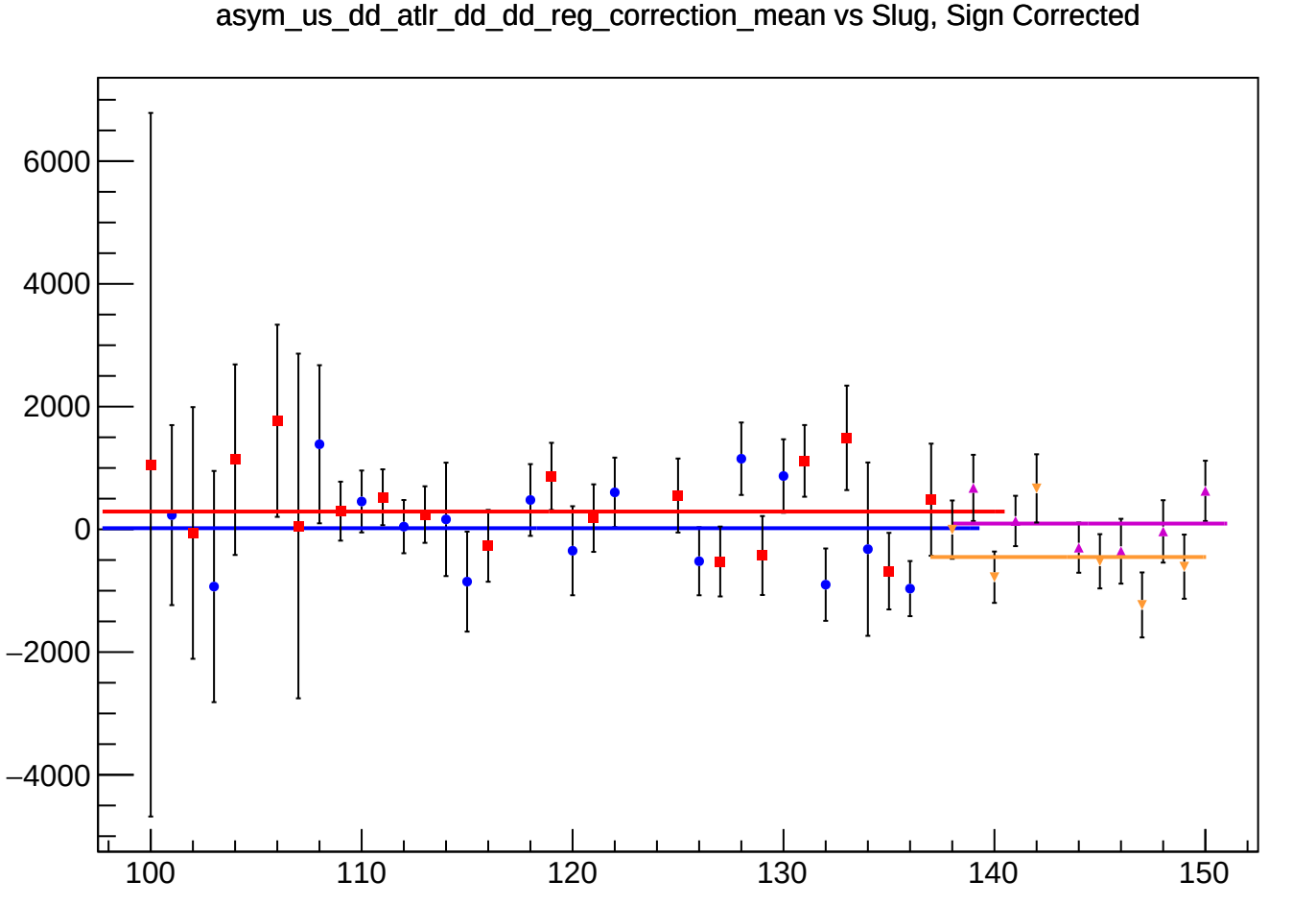
Left: 1127.564+/-0.255 $\chi^2$/NDF: 43916.5/11

Right: 1121.039+/-0.213 $\chi^2$/NDF: 846041.8/33

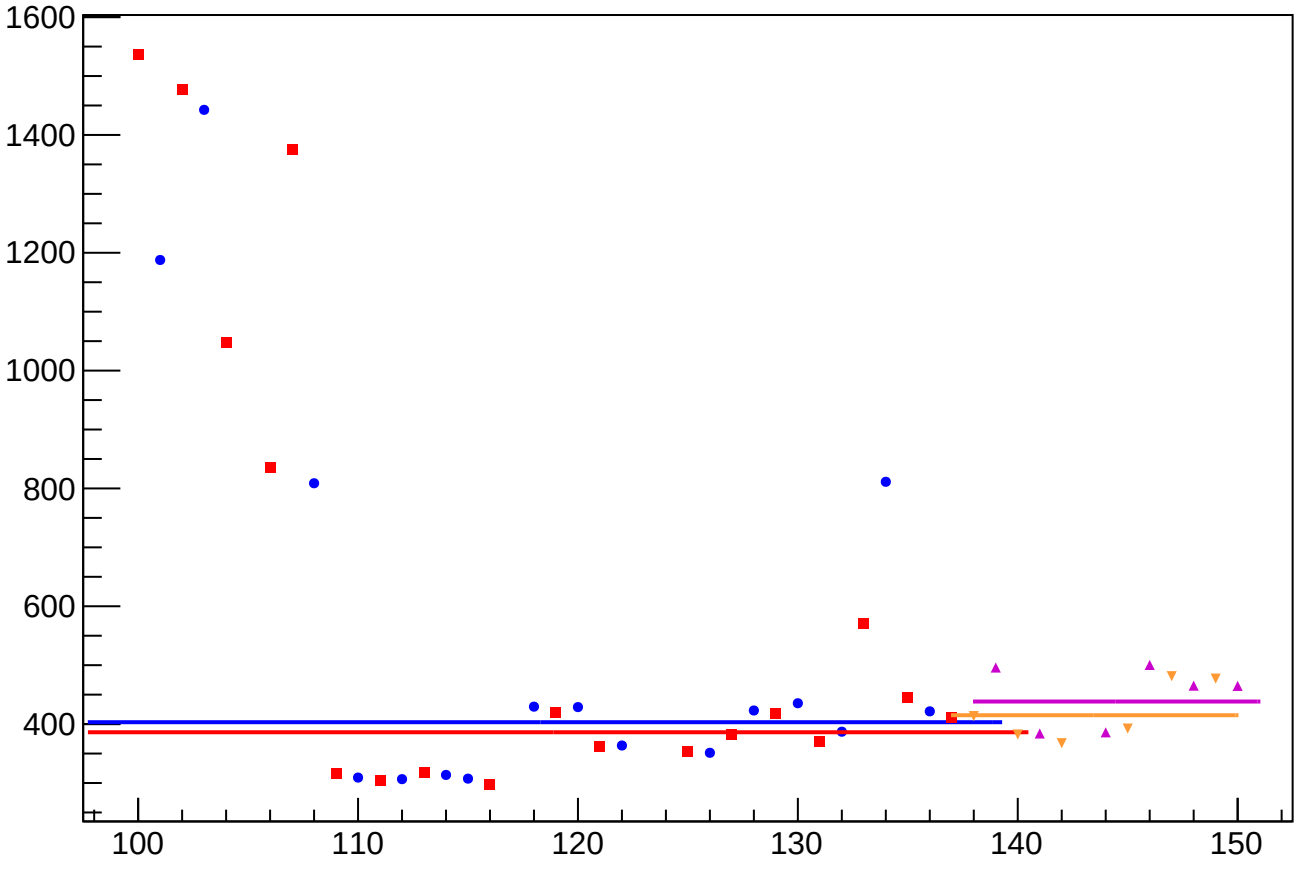
In: 1119.078+/-0.227 $\chi^2$/NDF:645824.8/21

Out: 1128.701+/-0.235 $\chi^2$/NDF:243652.4/23

All: 1123.717+/-0.163 $\chi^2$/NDF: 890344.8/45


asym_us_dd_atlr_dd_dd_reg_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
110
120
130
140
150
Right In: 18.468+/-161.237 χ²/NDF: 19.2/15
Left Out: -451.030+/-197.183 χ²/NDF:7.8/5
Right Out: 289.946+/-156.189 χ²/NDF: 13.5/17
Left In: 93.998+/-192.623 χ²/NDF:4.1/5
Left: -172.141+/-137.789 χ²/NDF: 15.8/11
Right: 158.523+/-112.184 χ²/NDF: 34.1/33
In: 49.586+/-123.639 χ²/NDF:23.3/21
Out: 4.277+/-122.433 χ²/NDF:30.0/23
All: 26.709+/-86.997 χ²/NDF: 53.4/45

asym_us_dd_atlr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 403.194+/-0.114 $\chi^2$/NDF: 1808432.3/15

Left Out: 415.062+/-0.139 $\chi^2$/NDF:91601.1/5

Right Out: 386.146+/-0.110 $\chi^2$/NDF: 1759113.8/17

Left In: 438.288+/-0.136 $\chi^2$/NDF:129672.6/5

Left: 426.946+/-0.097 $\chi^2$/NDF: 235472.3/11

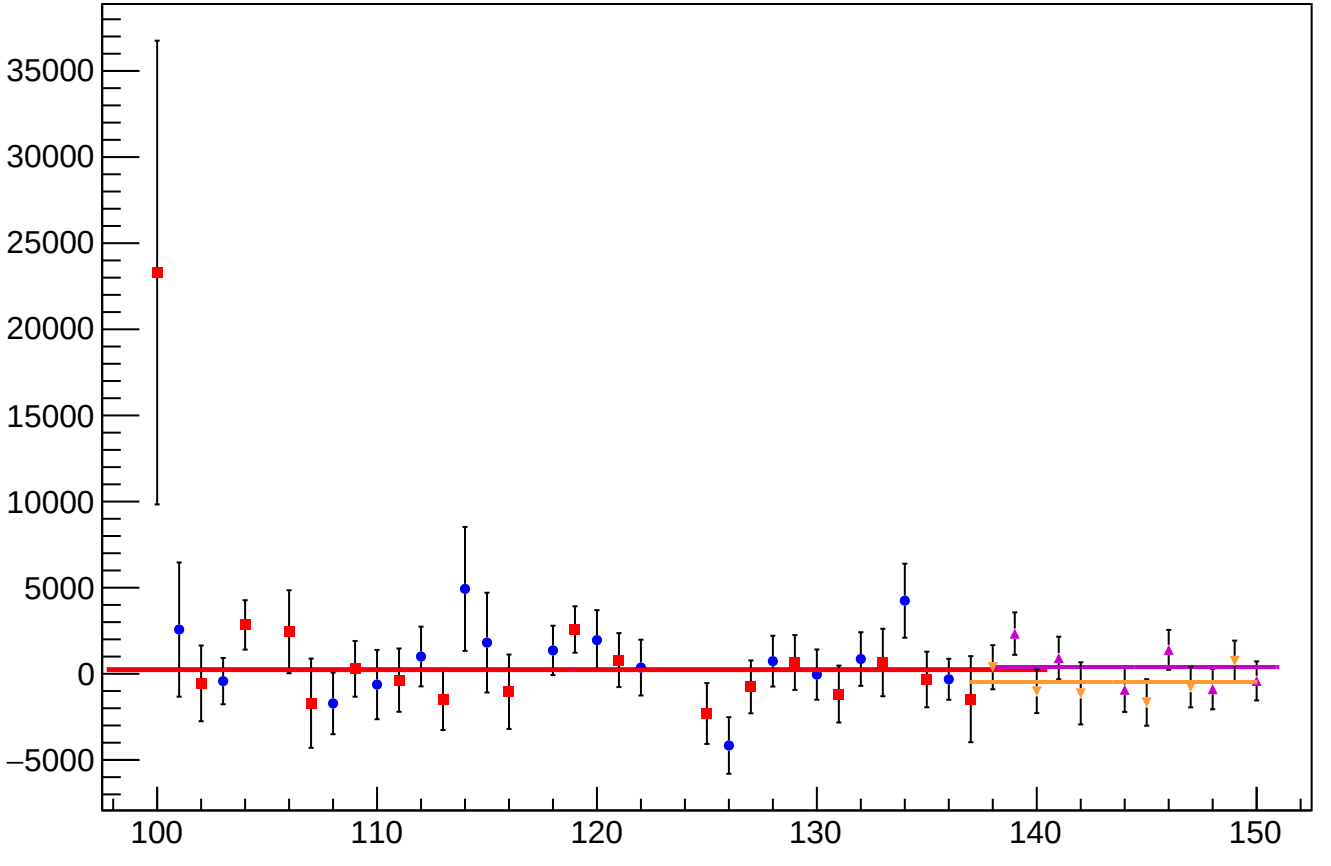
Right: 394.399+/-0.079 $\chi^2$/NDF: 3579081.1/33

In: 417.652+/-0.087 $\chi^2$/NDF:1977138.9/21

Out: 397.294+/-0.087 $\chi^2$/NDF:1877142.3/23

All: 407.373+/-0.062 $\chi^2$/NDF: 3881660.0/45

# cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -473.387+/-532.366 $\chi^2$/NDF:2.7/5

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: 395.513+/-489.645 $\chi^2$/NDF:6.2/5

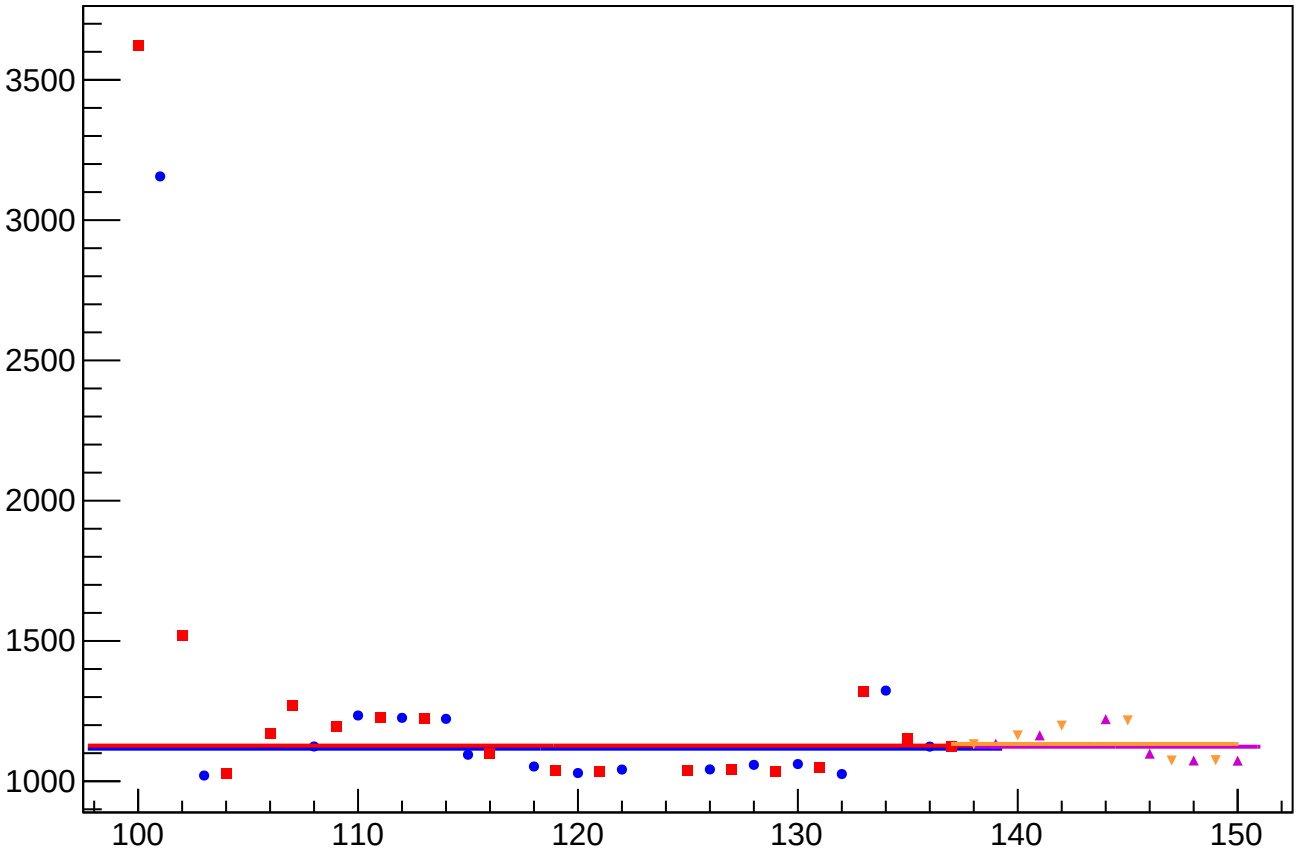
Left: -2.680+/-360.389 $\chi^2$/NDF: 10.3/11

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 318.409+/-320.812 $\chi^2$/NDF:23.1/21

Out: -54.288+/-332.780 $\chi^2$/NDF:19.9/23

All: 138.883+/-230.963 $\chi^2$/NDF: 43.7/45




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1132.899+/-0.376 $\chi^2$/NDF:21342.5/5

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1123.051+/-0.346 $\chi^2$/NDF:22203.2/5

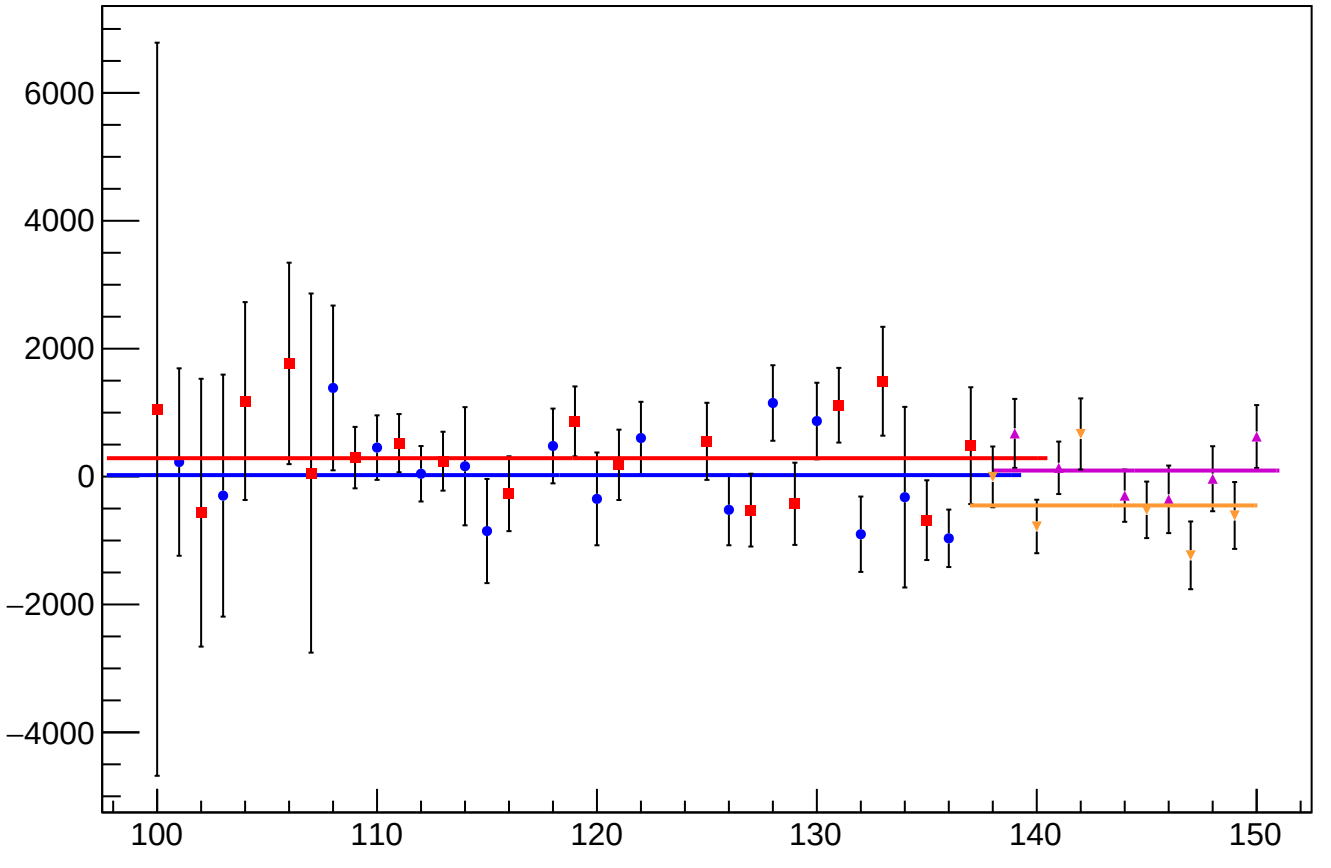
Left: 1127.564+/-0.255 $\chi^2$/NDF: 43916.5/11

Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

In: 1119.078+/-0.227 $\chi^2$/NDF:645825.9/21

Out: 1129.281+/-0.235 $\chi^2$/NDF:244234.3/23

All: 1123.993+/-0.163 $\chi^2$/NDF: 891034.7/45




Right In: 22.923+/-161.238 $\chi^2$/NDF: 19.0/15

Left Out: -451.176+/-197.182 $\chi^2$/NDF:7.8/5

Right Out: 287.614+/-156.212 $\chi^2$/NDF: 13.7/17

Left In: 94.105+/-192.622 $\chi^2$/NDF:4.1/5

Left: -172.157+/-137.788 $\chi^2$/NDF: 15.8/11

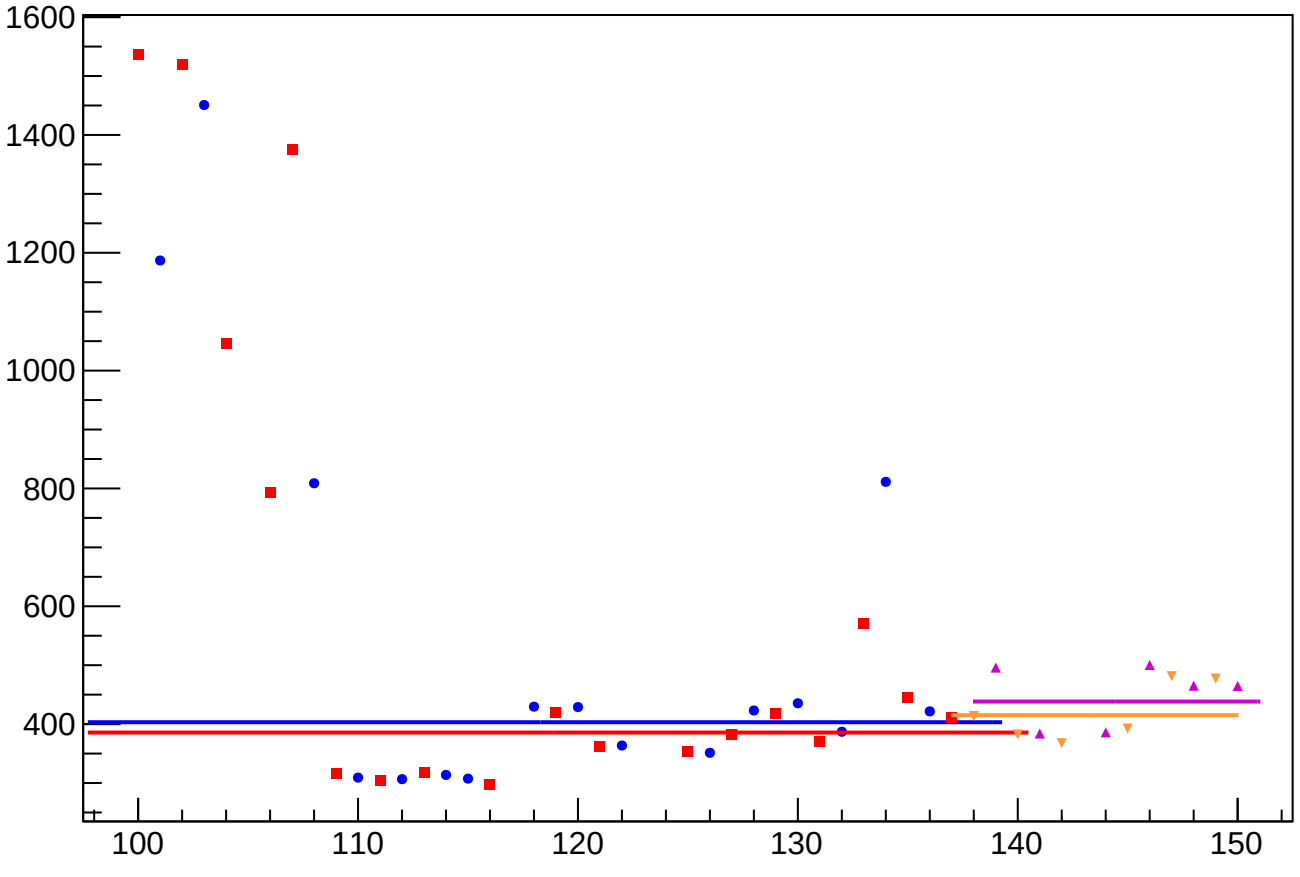
Right: 159.458+/-112.193 $\chi^2$/NDF: 34.0/33

In: 52.250+/-123.639 $\chi^2$/NDF:23.1/21

Out: 2.733+/-122.444 $\chi^2$/NDF:30.1/23

All: 27.251+/-87.001 $\chi^2$/NDF: 53.3/45

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 403.182+/-0.114 $\chi^2$/NDF: 1812111.0/15

Left Out: 415.059+/-0.139 $\chi^2$/NDF:91596.9/5

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 438.284+/-0.136 $\chi^2$/NDF:129647.6/5

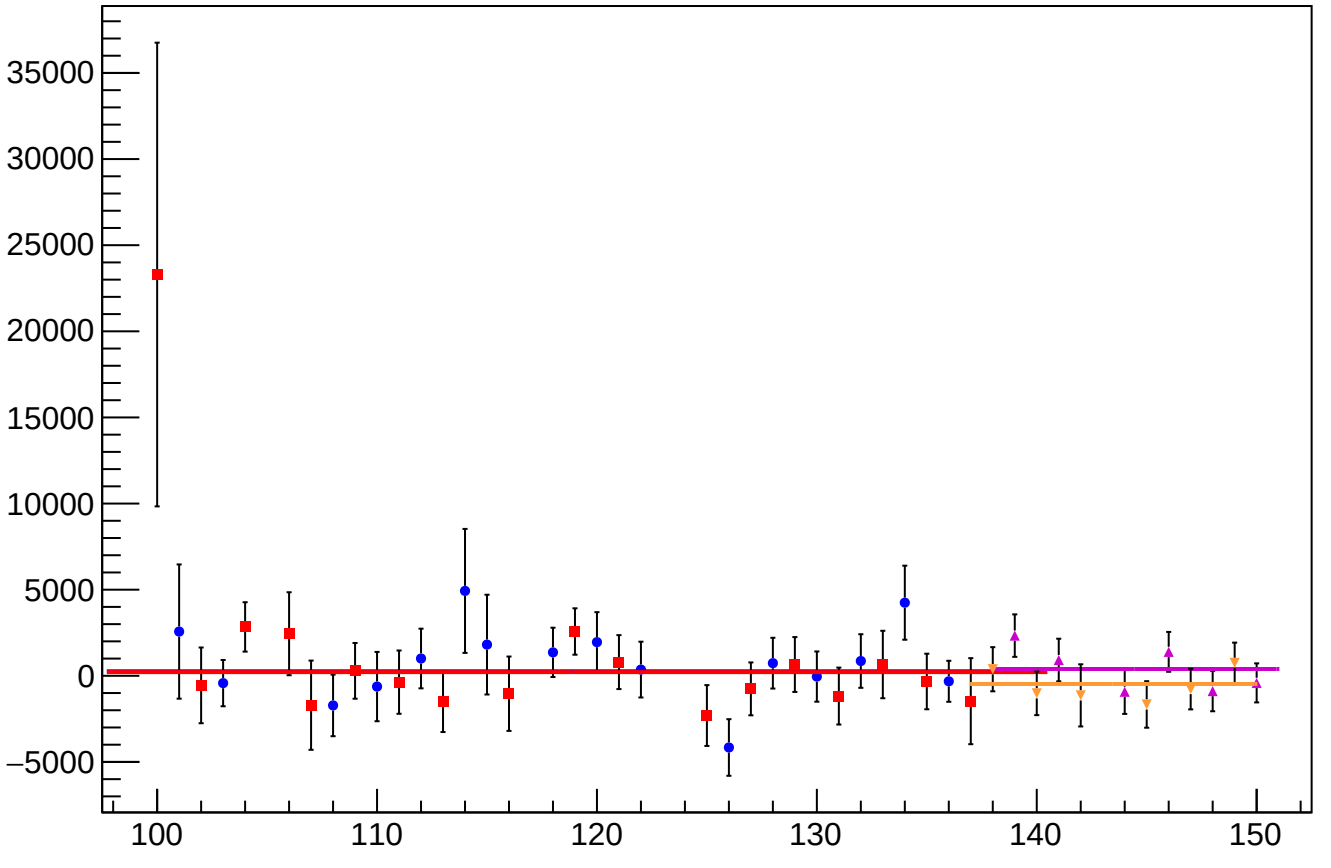
Left: 426.943+/-0.097 $\chi^2$/NDF: 235442.5/11

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 417.644+/-0.087 $\chi^2$/NDF:1980812.2/21

Out: 397.010+/-0.087 $\chi^2$/NDF:1866024.6/23

All: 407.227+/-0.062 $\chi^2$/NDF: 3874961.1/45




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -473.387+/-532.366 $\chi^2$/NDF:2.7/5

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: 395.513+/-489.645 $\chi^2$/NDF:6.2/5

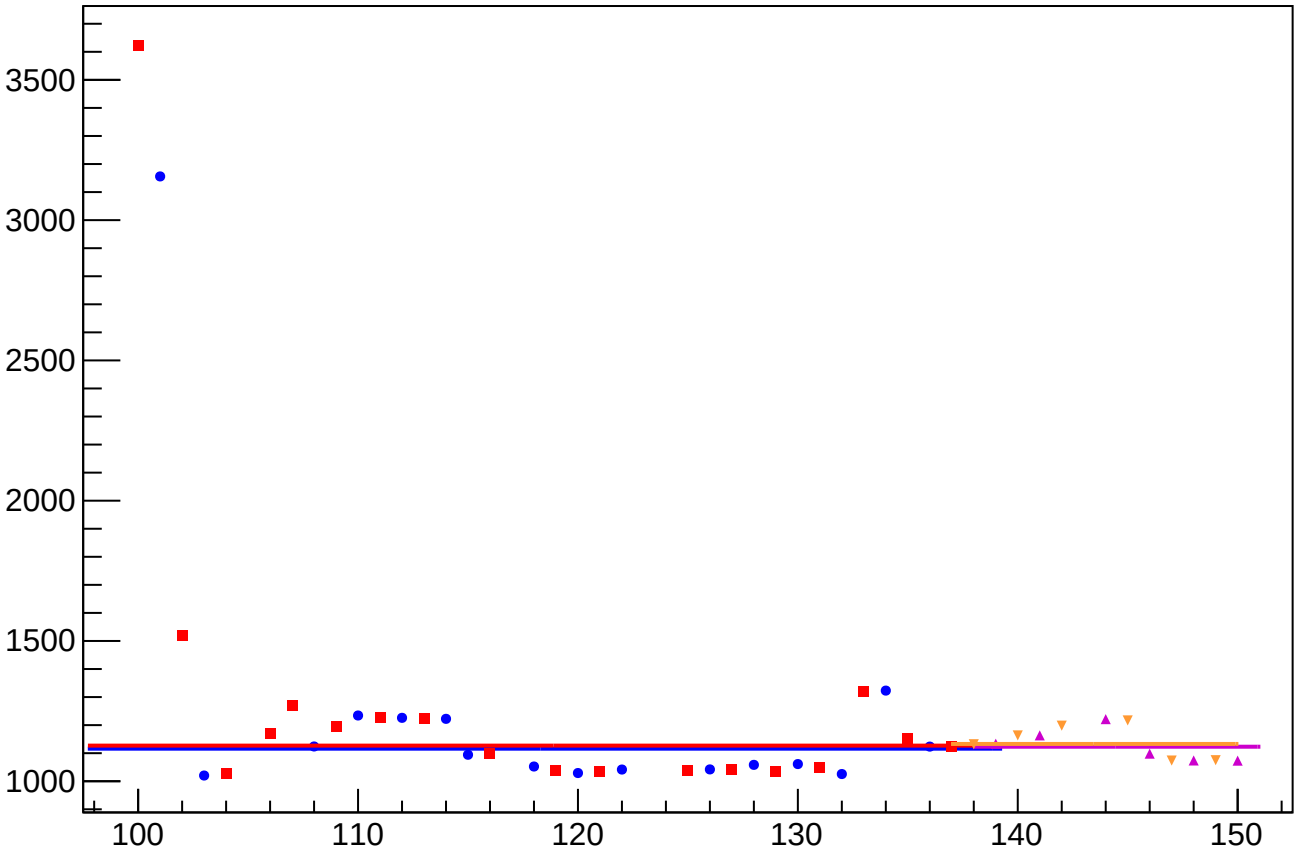
Left: -2.680+/-360.389 $\chi^2$/NDF: 10.3/11

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 318.409+/-320.812 $\chi^2$/NDF:23.1/21

Out: -54.288+/-332.780 $\chi^2$/NDF:19.9/23

All: 138.883+/-230.963 $\chi^2$/NDF: 43.7/45




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1132.899+/-0.376 $\chi^2$/NDF:21342.5/5

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1123.051+/-0.346 $\chi^2$/NDF:22203.2/5

Left: 1127.564+/-0.255 $\chi^2$/NDF: 43916.5/11

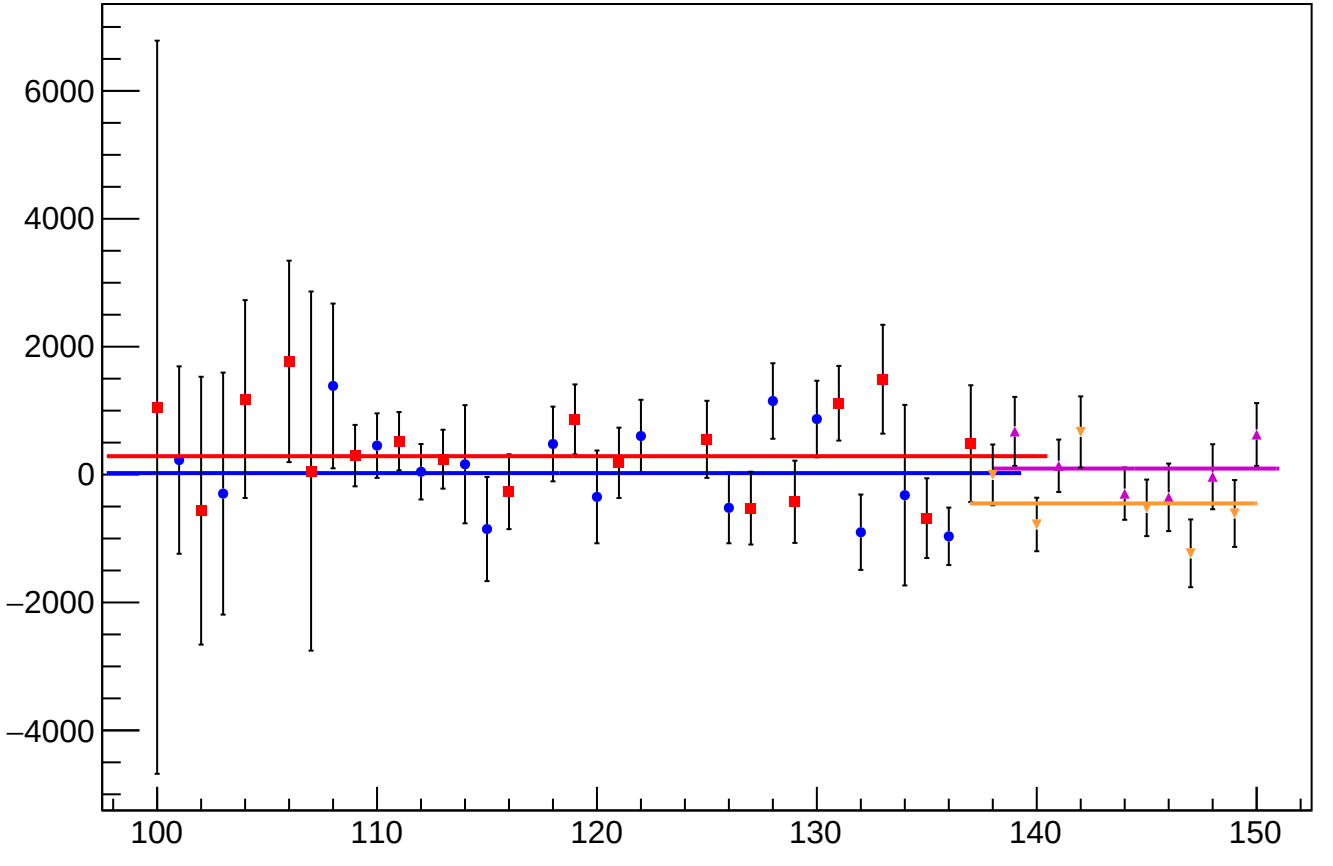
Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

In: 1119.078+/-0.227 $\chi^2$/NDF:645825.9/21

Out: 1129.281+/-0.235 $\chi^2$/NDF:244234.3/23

All: 1123.993+/-0.163 $\chi^2$/NDF: 891034.7/45

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 22.923+/-161.238 $\chi^2$/NDF: 19.0/15

Left Out: -451.176+/-197.182 $\chi^2$/NDF:7.8/5

Right Out: 287.614+/-156.212 $\chi^2$/NDF: 13.7/17

Left In: 94.105+/-192.622 $\chi^2$/NDF:4.1/5

Left: -172.157+/-137.788 $\chi^2$/NDF: 15.8/11

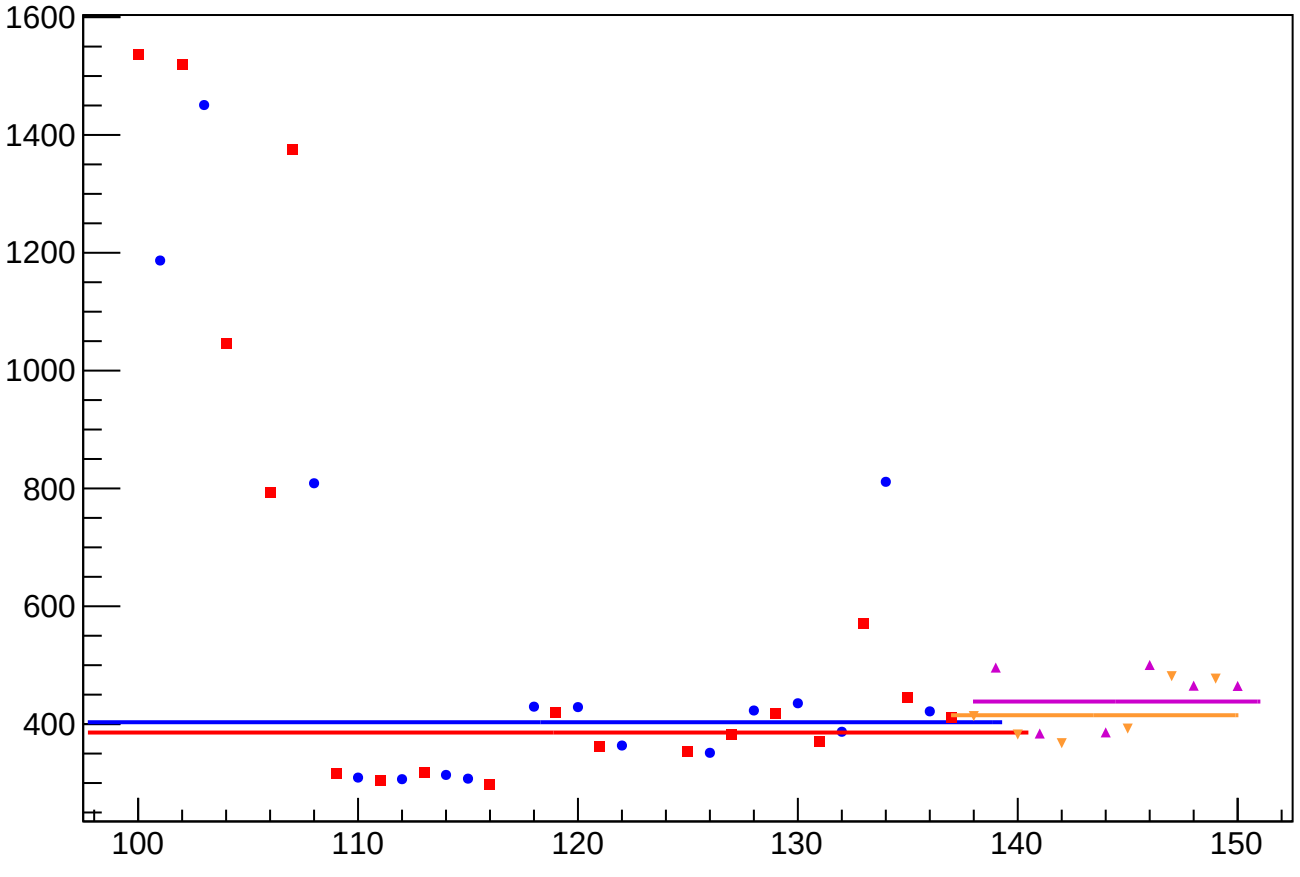
Right: 159.458+/-112.193 $\chi^2$/NDF: 34.0/33

In: 52.250+/-123.639 $\chi^2$/NDF:23.1/21

Out: 2.733+/-122.444 $\chi^2$/NDF:30.1/23

All: 27.251+/-87.001 $\chi^2$/NDF: 53.3/45

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 403.182+/-0.114 $\chi^2$/NDF: 1812111.0/15

Left Out: 415.059+/-0.139 $\chi^2$/NDF:91596.9/5

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 438.284+/-0.136 $\chi^2$/NDF:129647.6/5

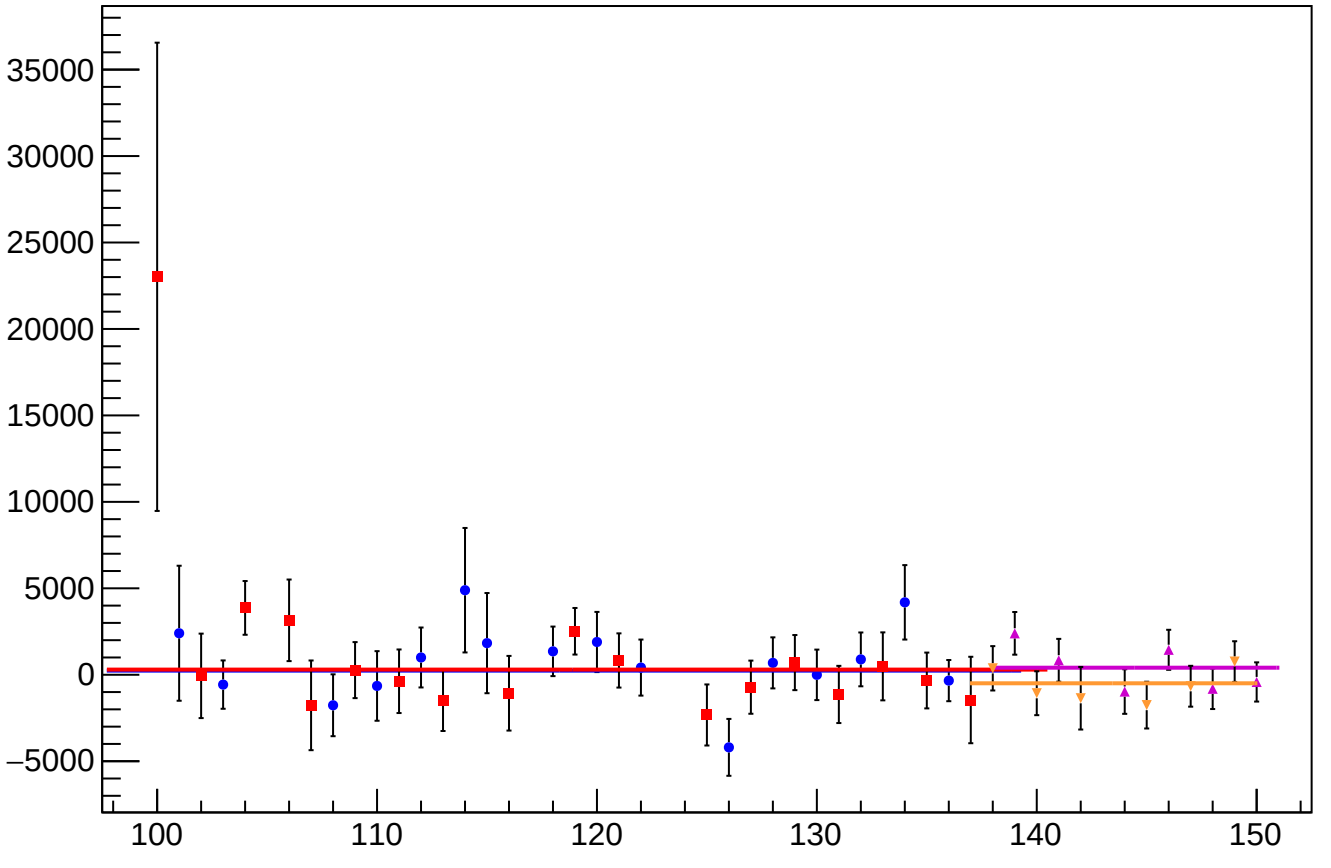
Left: 426.943+/-0.097 $\chi^2$/NDF: 235442.5/11

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 417.644+/-0.087 $\chi^2$/NDF:1980812.2/21

Out: 397.010+/-0.087 $\chi^2$/NDF:1866024.6/23

All: 407.227+/-0.062 $\chi^2$/NDF: 3874961.1/45




Right In: 240.827+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: -492.683+/-532.974 $\chi^2$/NDF:2.9/5

Right Out: 298.921+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: 408.535+/-490.108 $\chi^2$/NDF:6.3/5

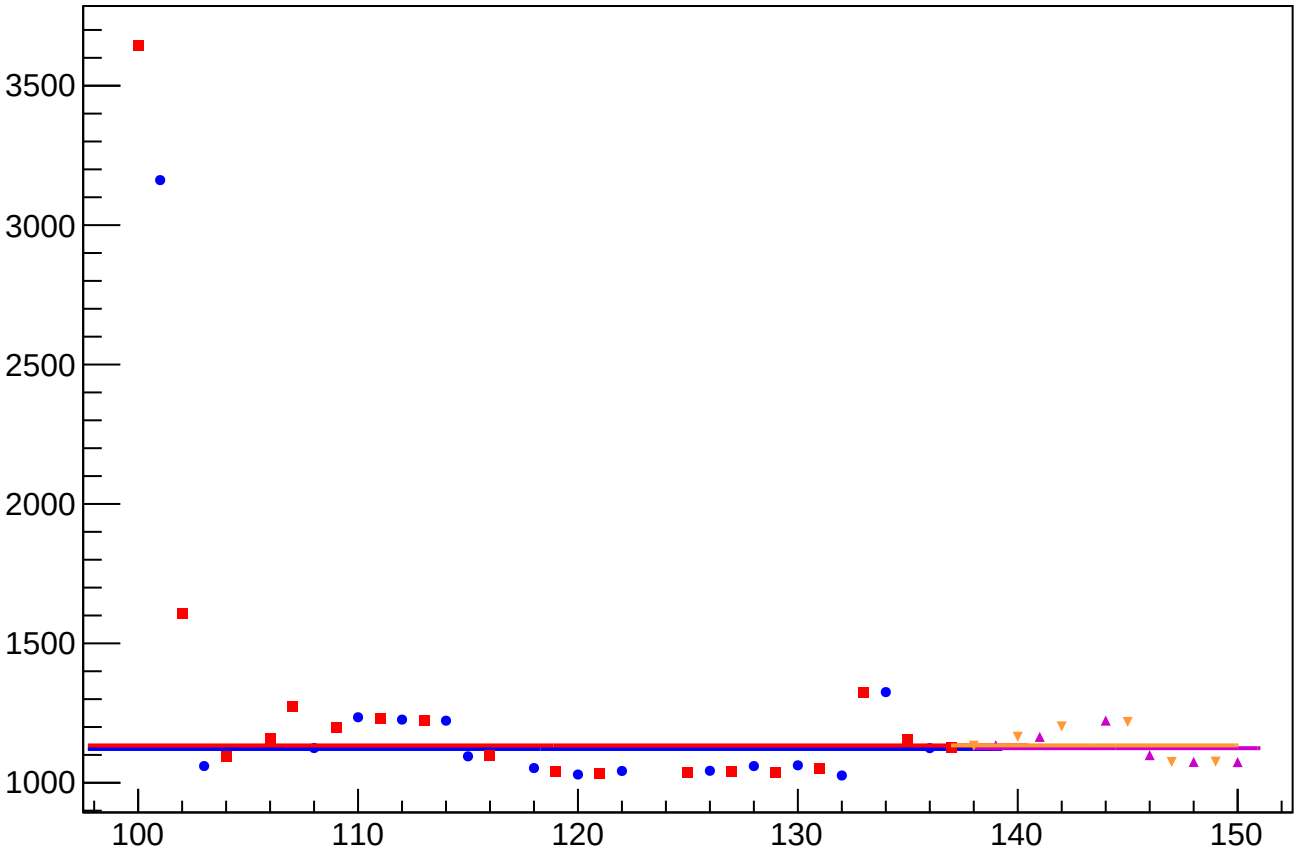
Left: -4.380+/-360.763 $\chi^2$/NDF: 10.7/11

Right: 269.591+/-303.111 $\chi^2$/NDF: 35.6/33

In: 313.116+/-321.775 $\chi^2$/NDF:23.3/21

Out: -13.863+/-335.023 $\chi^2$/NDF:22.9/23

All: 156.219+/-232.071 $\chi^2$/NDF: 46.7/45




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1134.151+/-0.377 $\chi^2$/NDF:21747.9/5

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1124.095+/-0.347 $\chi^2$/NDF:22376.8/5

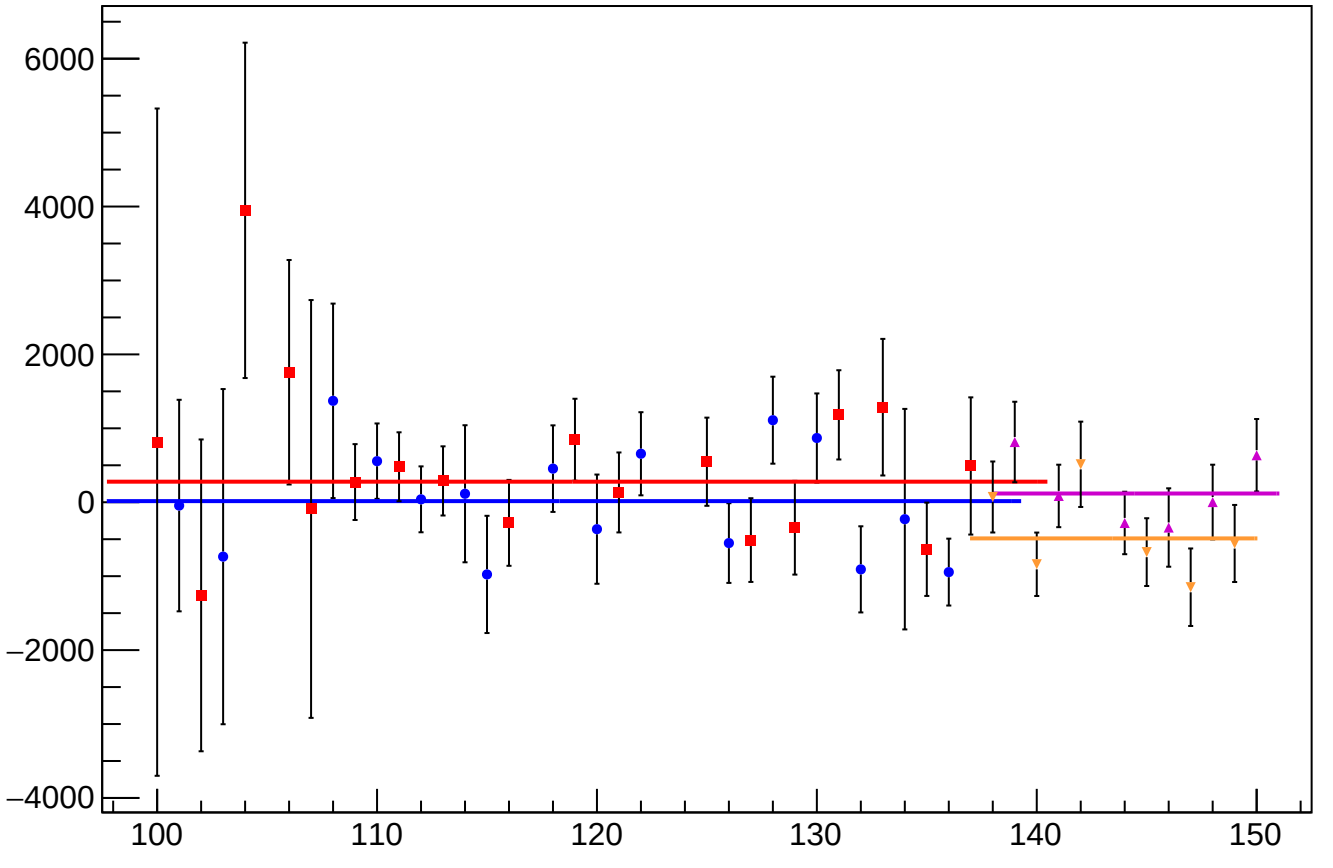
Left: 1128.703+/-0.255 $\chi^2$/NDF: 44510.4/11

Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

In: 1122.502+/-0.228 $\chi^2$/NDF:639442.3/21

Out: 1134.017+/-0.237 $\chi^2$/NDF:249205.2/23

All: 1128.027+/-0.164 $\chi^2$/NDF: 889876.5/45




Right In: 15.291+/-161.845 $\chi^2$/NDF: 19.6/15

Left Out: -489.093+/-200.581 $\chi^2$/NDF:6.8/5

Right Out: 278.251+/-158.828 $\chi^2$/NDF: 15.1/17

Left In: 118.226+/-195.303 $\chi^2$/NDF:4.5/5

Left: -177.339+/-139.929 $\chi^2$/NDF: 16.0/11

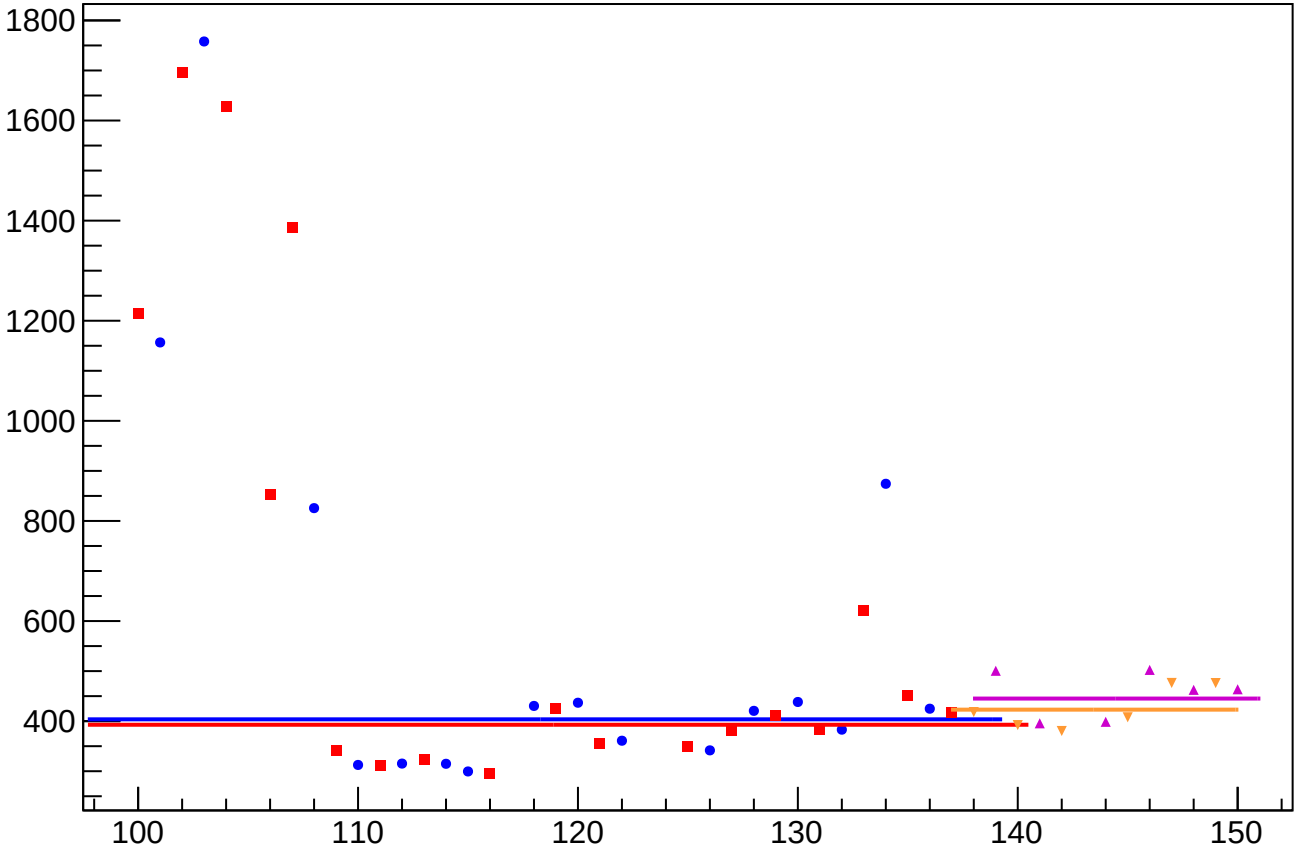
Right: 149.246+/-113.360 $\chi^2$/NDF: 36.0/33

In: 57.200+/-124.617 $\chi^2$/NDF:24.2/21

Out: -17.464+/-124.518 $\chi^2$/NDF:30.9/23

All: 19.838+/-88.083 $\chi^2$/NDF: 55.3/45

asym_us_dd_atlr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 403.656+/-0.114 $\chi^2$/NDF: 1929597.5/15

Left Out: 423.000+/-0.142 $\chi^2$/NDF:65174.9/5

Right Out: 392.820+/-0.112 $\chi^2$/NDF: 2203456.1/17

Left In: 445.139+/-0.138 $\chi^2$/NDF:100899.8/5

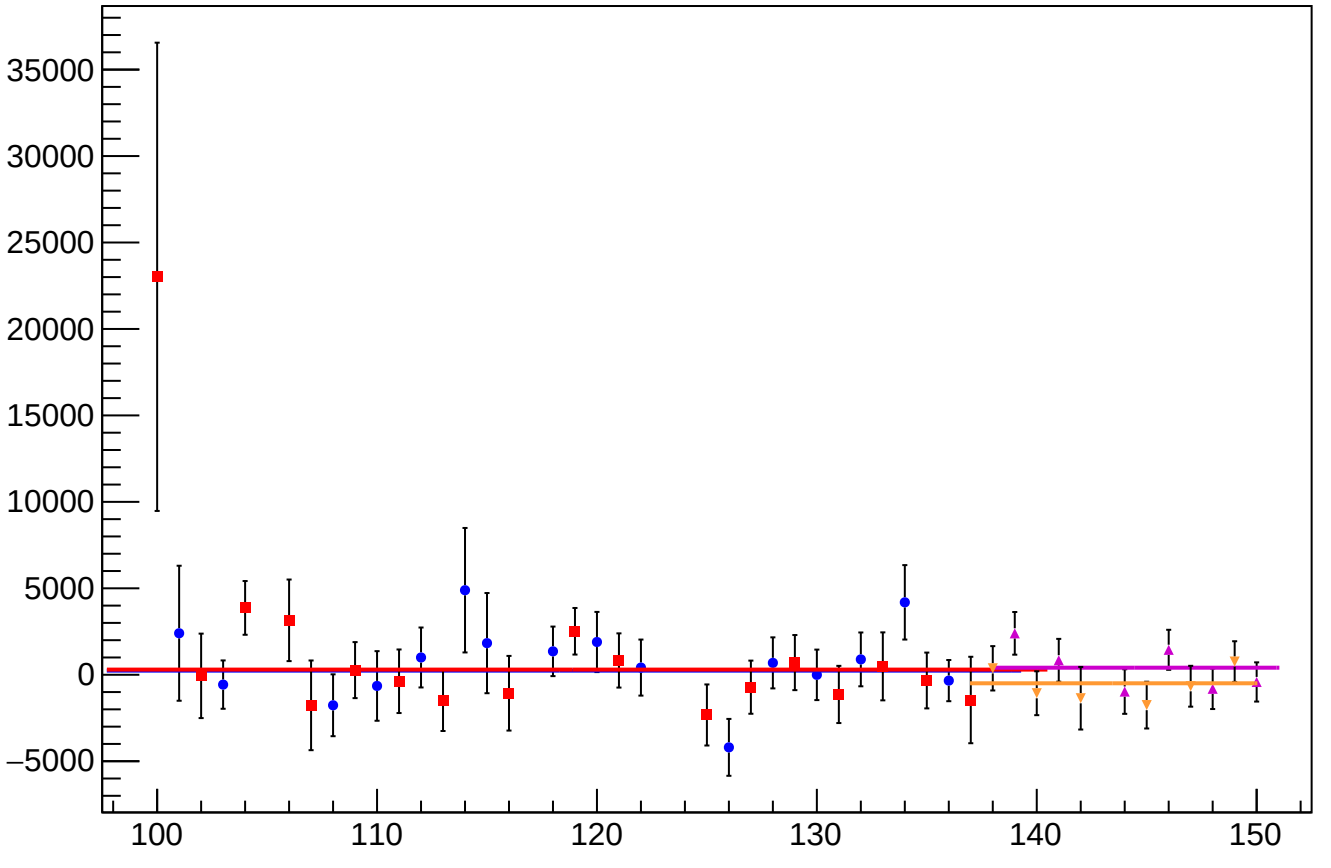
Left: 434.365+/-0.099 $\chi^2$/NDF: 178582.0/11

Right: 398.136+/-0.080 $\chi^2$/NDF: 4137620.1/33

In: 420.545+/-0.088 $\chi^2$/NDF:2083992.1/21

Out: 404.451+/-0.088 $\chi^2$/NDF:2296459.2/23

All: 412.491+/-0.062 $\chi^2$/NDF: 4397143.9/45




Right In: 240.829+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: -492.689+/-532.974 $\chi^2$/NDF:2.9/5

Right Out: 298.922+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: 408.533+/-490.108 $\chi^2$/NDF:6.3/5

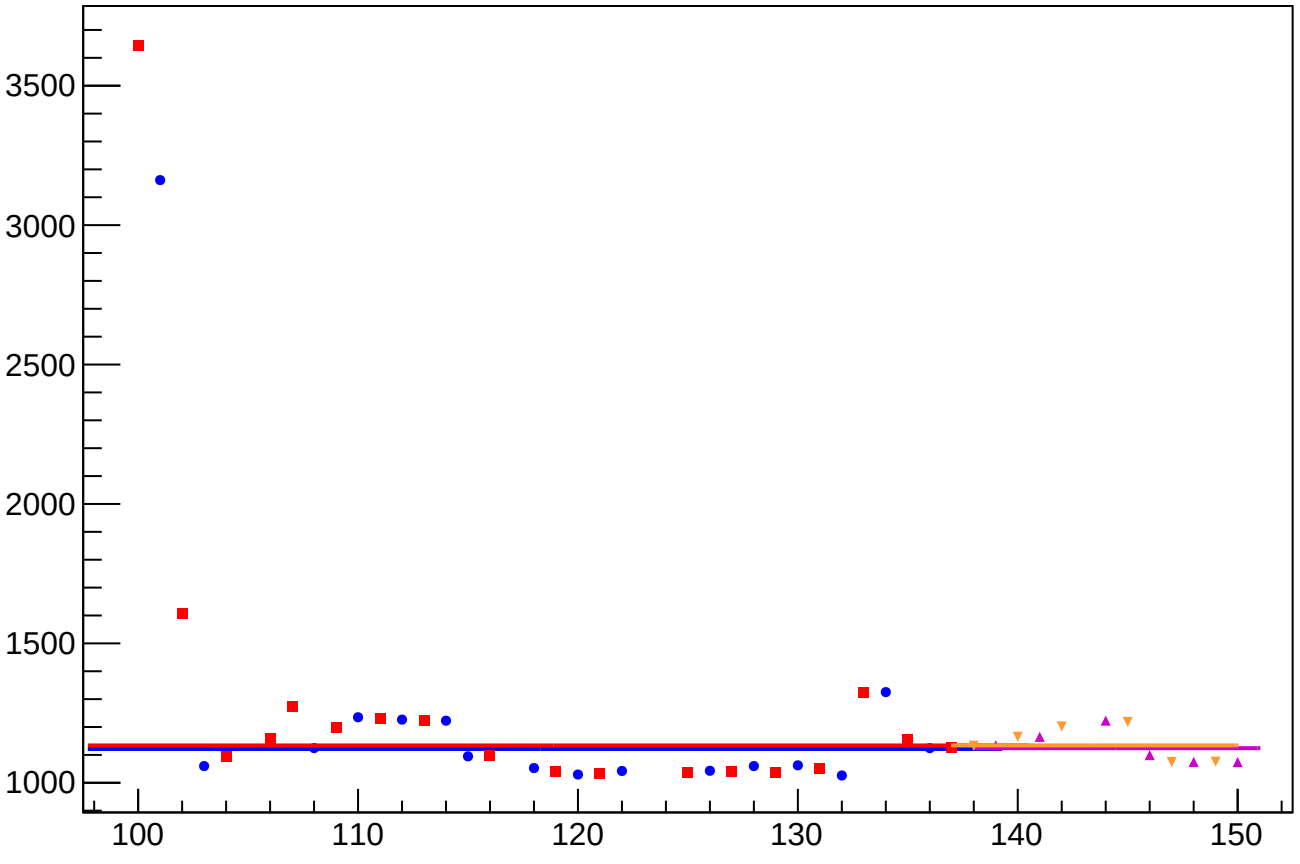
Left: -4.384+/-360.763 $\chi^2$/NDF: 10.7/11

Right: 269.593+/-303.111 $\chi^2$/NDF: 35.6/33

In: 313.117+/-321.775 $\chi^2$/NDF:23.3/21

Out: -13.865+/-335.023 $\chi^2$/NDF:22.9/23

All: 156.219+/-232.071 $\chi^2$/NDF: 46.7/45




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1134.151+/-0.377 $\chi^2$/NDF:21748.0/5

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1124.095+/-0.347 $\chi^2$/NDF:22376.8/5

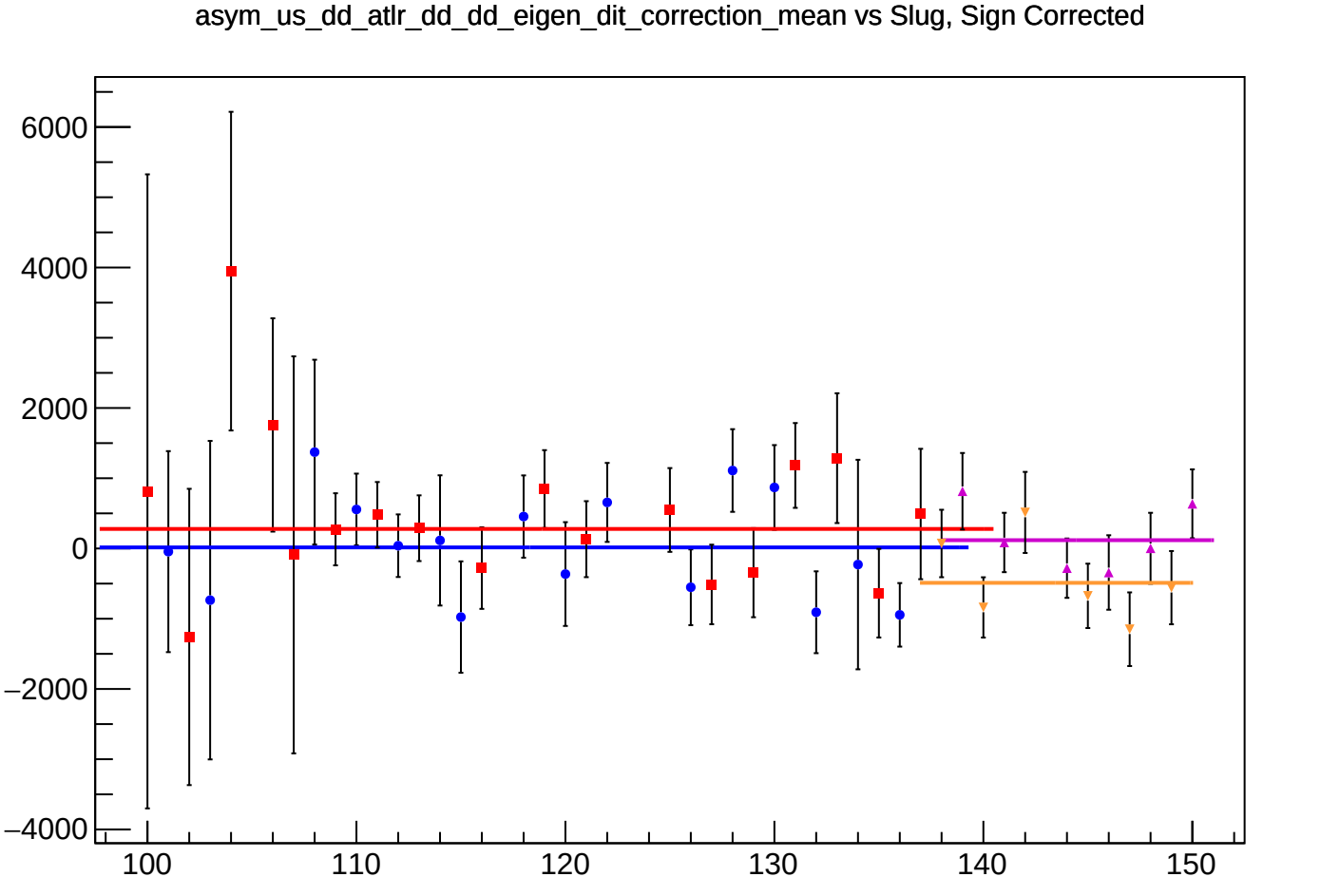
Left: 1128.703+/-0.255 $\chi^2$/NDF: 44510.5/11

Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

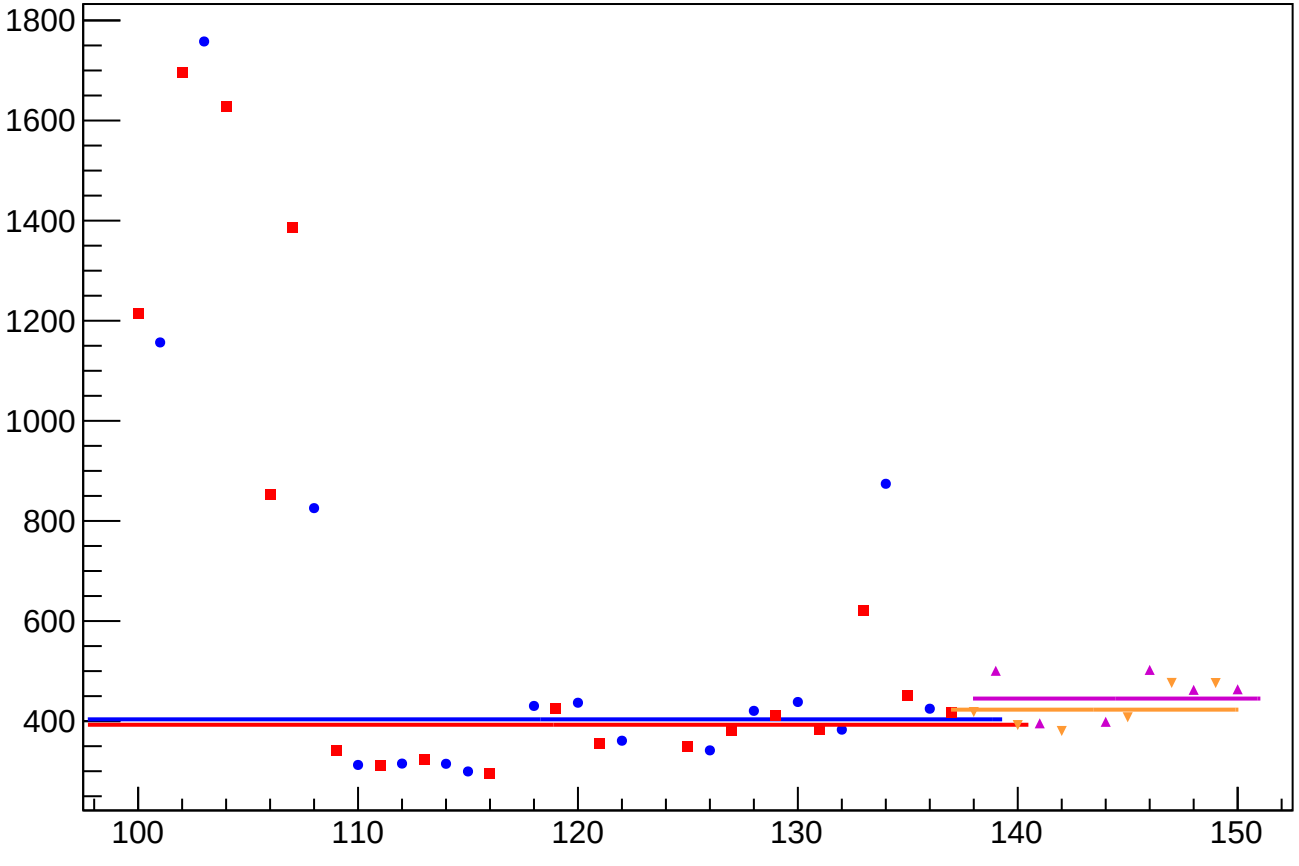
In: 1122.502+/-0.228 $\chi^2$/NDF:639442.4/21

Out: 1134.017+/-0.237 $\chi^2$/NDF:249205.3/23

All: 1128.027+/-0.164 $\chi^2$/NDF: 889876.8/45


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
110
120
130
140
150
Right In: 15.288+/-161.844 χ²/NDF: 19.6/15
Left Out: -489.101+/-200.581 χ²/NDF:6.8/5
Right Out: 278.249+/-158.826 χ²/NDF: 15.1/17
Left In: 118.230+/-195.304 χ²/NDF:4.5/5
Left: -177.342+/-139.929 χ²/NDF: 16.0/11
Right: 149.243+/-113.359 χ²/NDF: 36.0/33
In: 57.199+/-124.617 χ²/NDF:24.2/21
Out: -17.466+/-124.517 χ²/NDF:30.9/23
All: 19.836+/-88.082 χ²/NDF: 55.3/45

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 403.653+/-0.114 $\chi^2$/NDF: 1929594.3/15

Left Out: 423.000+/-0.142 $\chi^2$/NDF:65172.1/5

Right Out: 392.817+/-0.112 $\chi^2$/NDF: 2203462.7/17

Left In: 445.140+/-0.138 $\chi^2$/NDF:100896.0/5

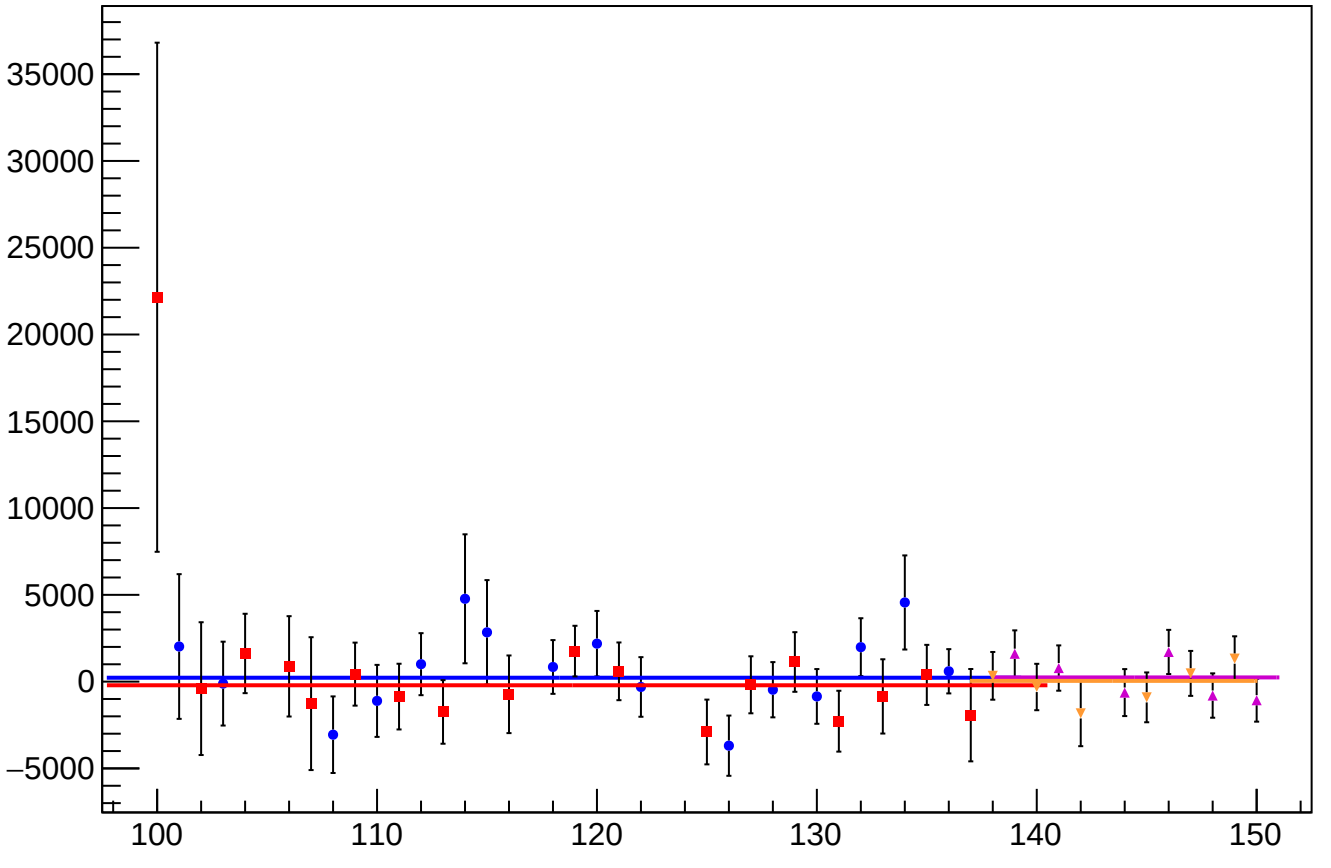
Left: 434.365+/-0.099 $\chi^2$/NDF: 178577.4/11

Right: 398.133+/-0.080 $\chi^2$/NDF: 4137623.7/33

In: 420.544+/-0.088 $\chi^2$/NDF:2083997.0/21

Out: 404.449+/-0.088 $\chi^2$/NDF:2296468.7/23

All: 412.490+/-0.062 $\chi^2$/NDF: 4397160.1/45




Right In: 224.817+/-474.559 $\chi^2$/NDF: 16.1/15

Left Out: 43.511+/-572.291 $\chi^2$/NDF:2.6/5

Right Out: -209.751+/-477.820 $\chi^2$/NDF: 11.0/17

Left In: 242.154+/-529.433 $\chi^2$/NDF:4.7/5

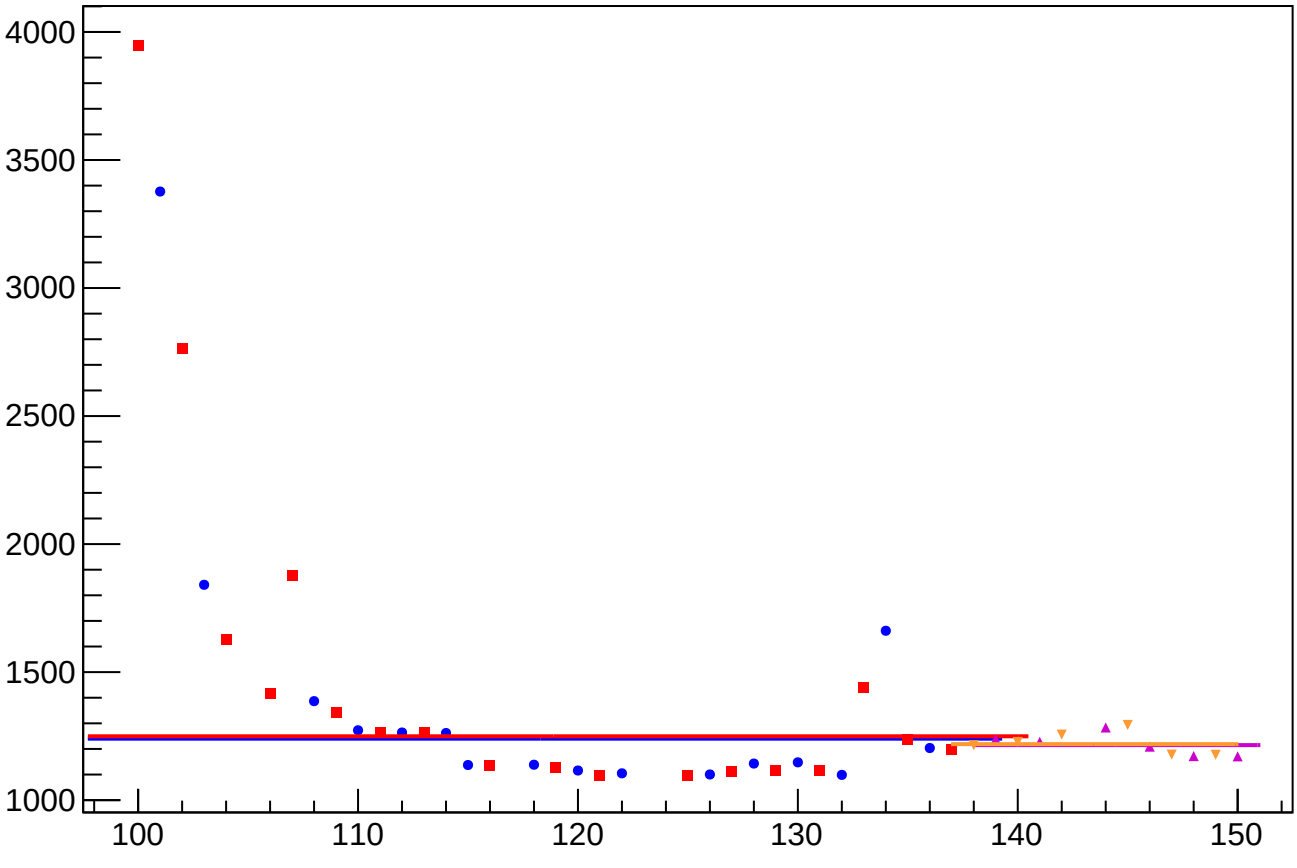
Left: 150.548+/-388.635 $\chi^2$/NDF: 7.4/11

Right: 9.021+/-336.711 $\chi^2$/NDF: 27.5/33

In: 232.541+/-353.377 $\chi^2$/NDF:20.9/21

Out: -105.721+/-366.784 $\chi^2$/NDF:13.7/23

All: 69.705+/-254.483 $\chi^2$/NDF: 35.0/45




Right In: 1240.140+/-0.336 $\chi^2$/NDF: 782679.7/15

Left Out: 1218.713+/-0.405 $\chi^2$/NDF:10384.2/5

Right Out: 1249.410+/-0.338 $\chi^2$/NDF: 606099.2/17

Left In: 1214.938+/-0.374 $\chi^2$/NDF:10827.8/5

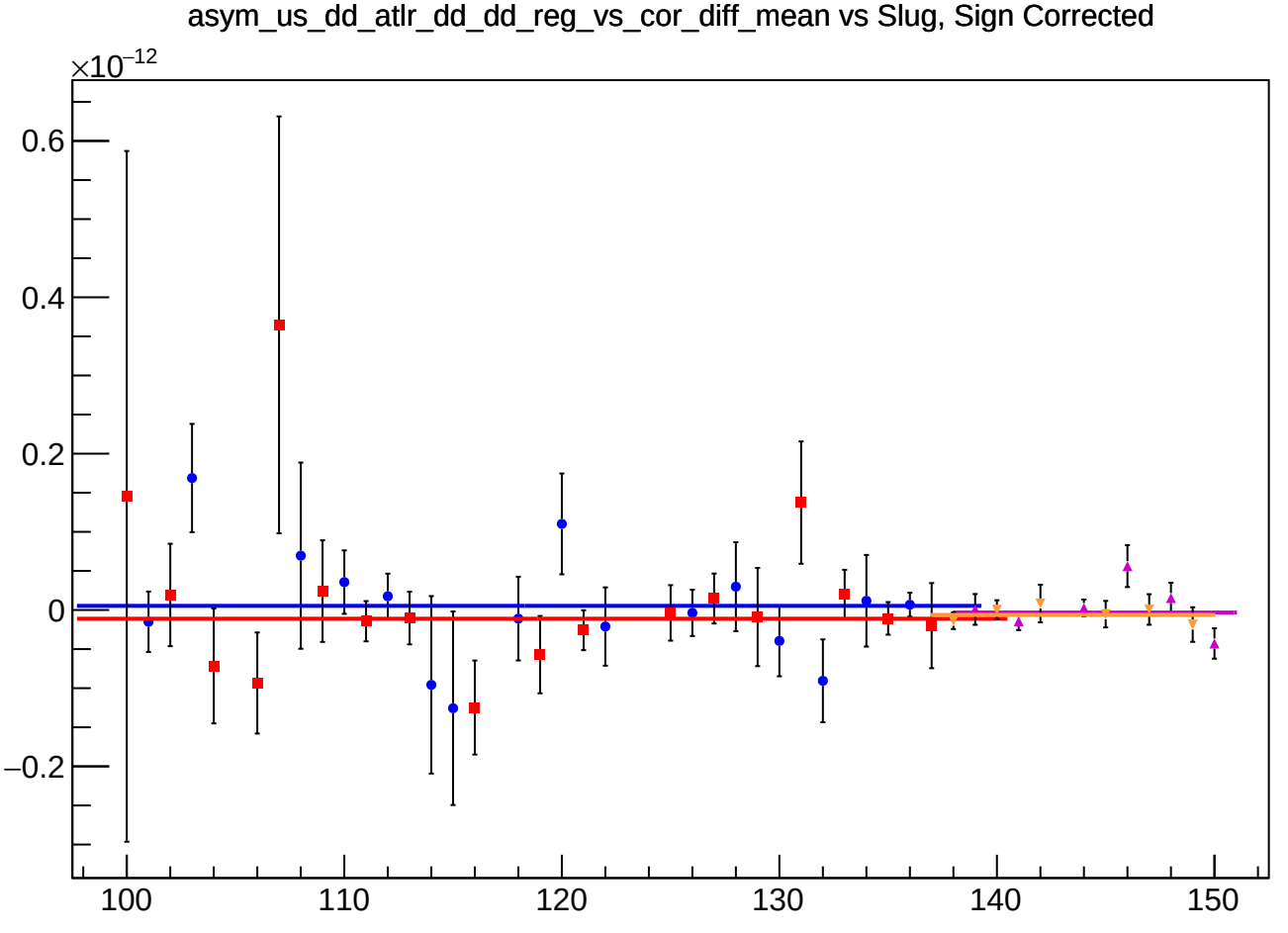
Left: 1216.679+/-0.275 $\chi^2$/NDF: 21258.8/11

Right: 1244.743+/-0.238 $\chi^2$/NDF: 1389157.9/33

In: 1228.912+/-0.250 $\chi^2$/NDF:796020.4/21

Out: 1236.801+/-0.259 $\chi^2$/NDF:619874.0/23

All: 1232.710+/-0.180 $\chi^2$/NDF: 1416374.2/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.6/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.3/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 13.0/11

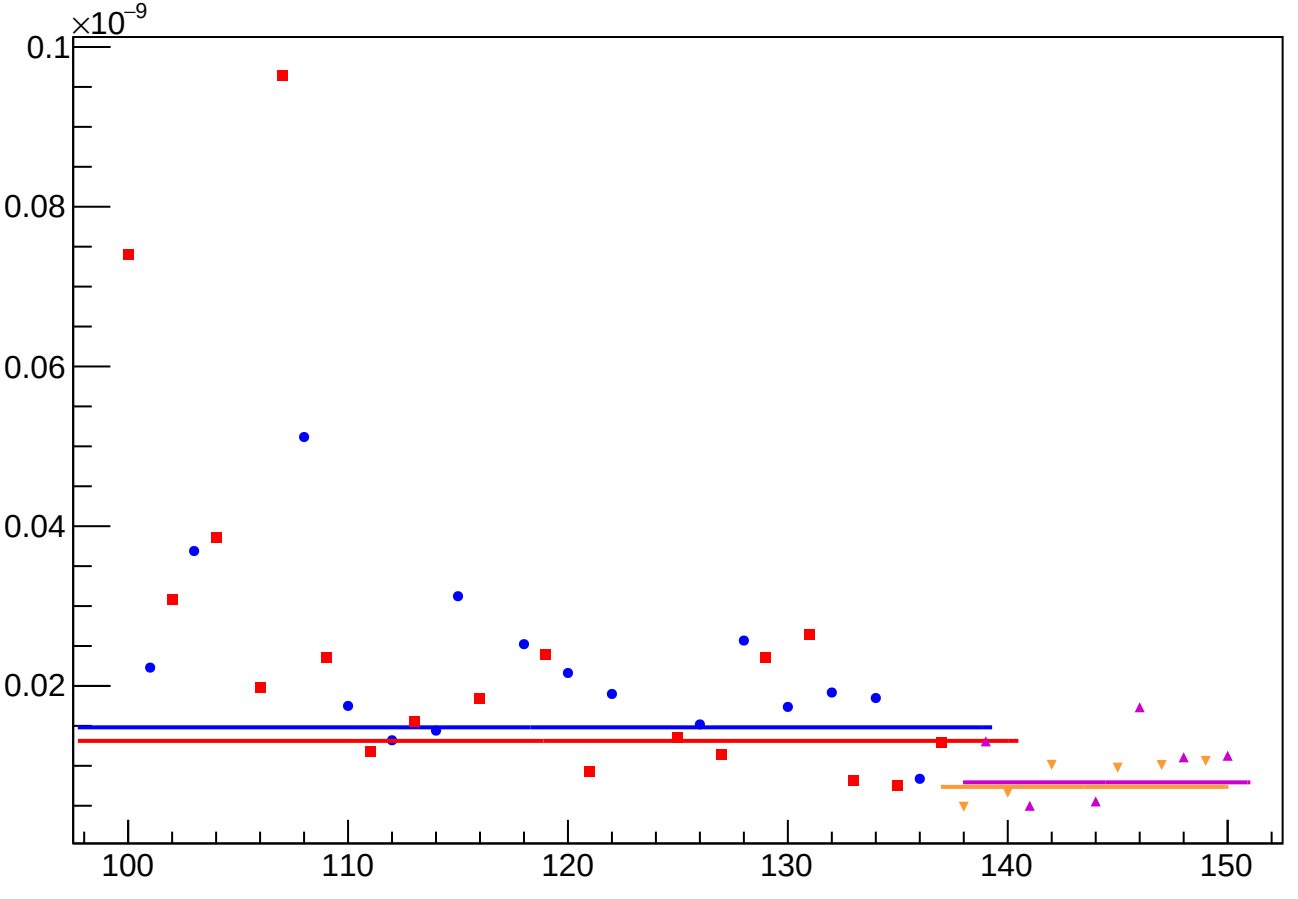
Right: -0.000+/-0.000 $\chi^2$/NDF: 32.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:28.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:16.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.9/45

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1081472.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:264895.6/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1181949.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:724847.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 998031.2/11

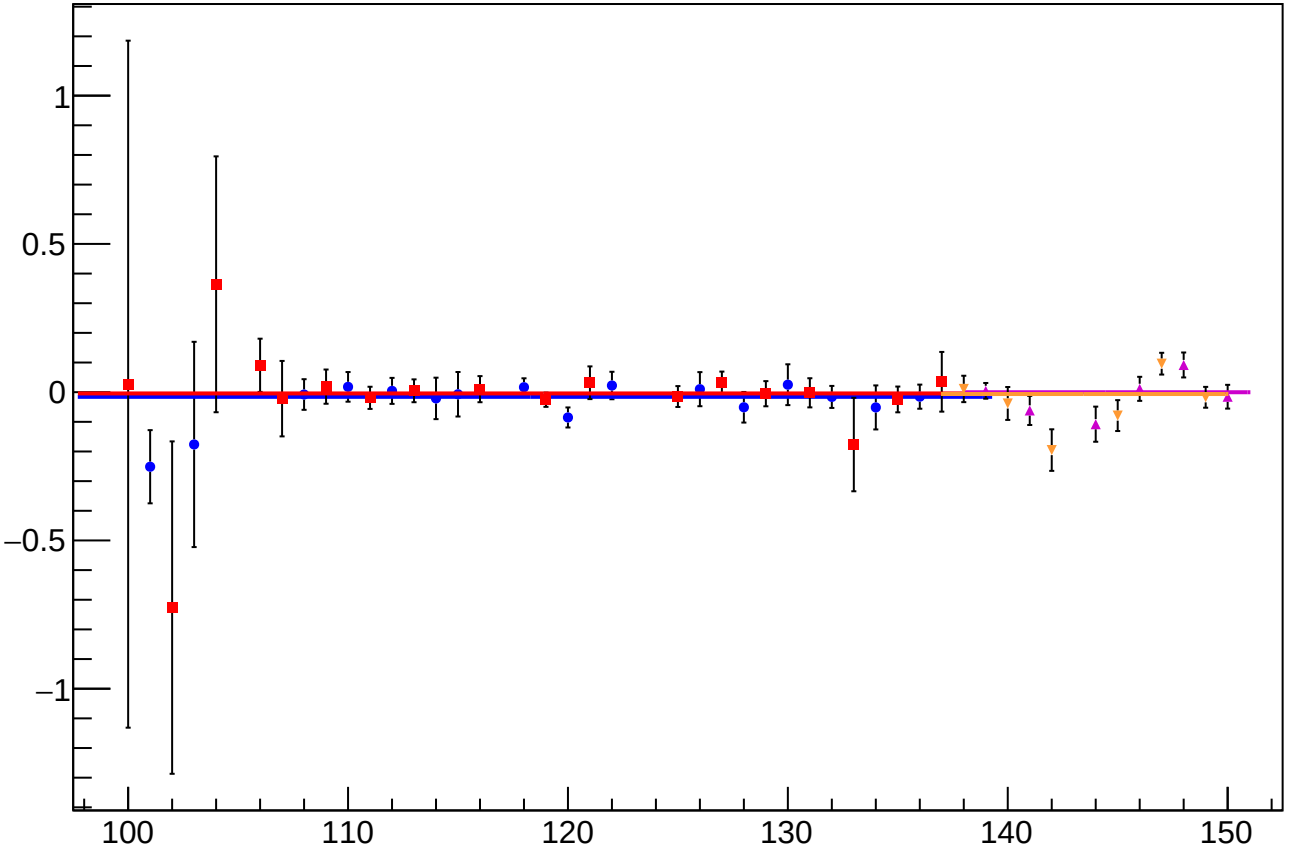
Right: 0.000+/-0.000 $\chi^2$/NDF: 2295265.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2524702.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:1968944.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4518302.0/45

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.006+/-0.018 $\chi^2$/NDF:17.6/5

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.000+/-0.016 $\chi^2$/NDF:9.9/5

Left: -0.003+/-0.012 $\chi^2$/NDF: 27.5/11

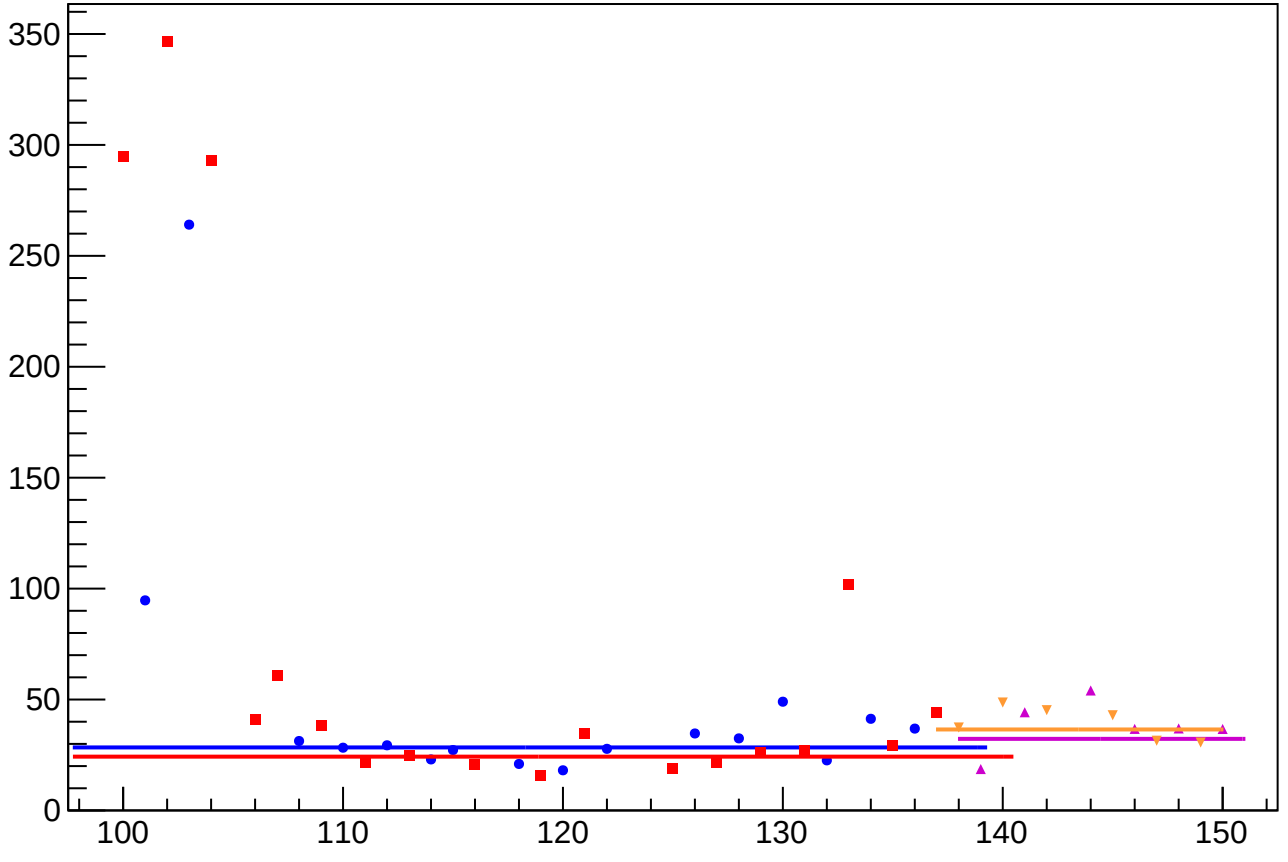
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.010+/-0.010 $\chi^2$/NDF:22.4/21

Out: -0.005+/-0.010 $\chi^2$/NDF:25.4/23

All: -0.007+/-0.007 $\chi^2$/NDF: 48.0/45

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245642.8/15

Left Out: 36.506+/-0.013 $\chi^2$/NDF:251751.7/5

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 32.273+/-0.011 $\chi^2$/NDF:991952.5/5

Left: 34.092+/-0.009 $\chi^2$/NDF: 1304068.5/11

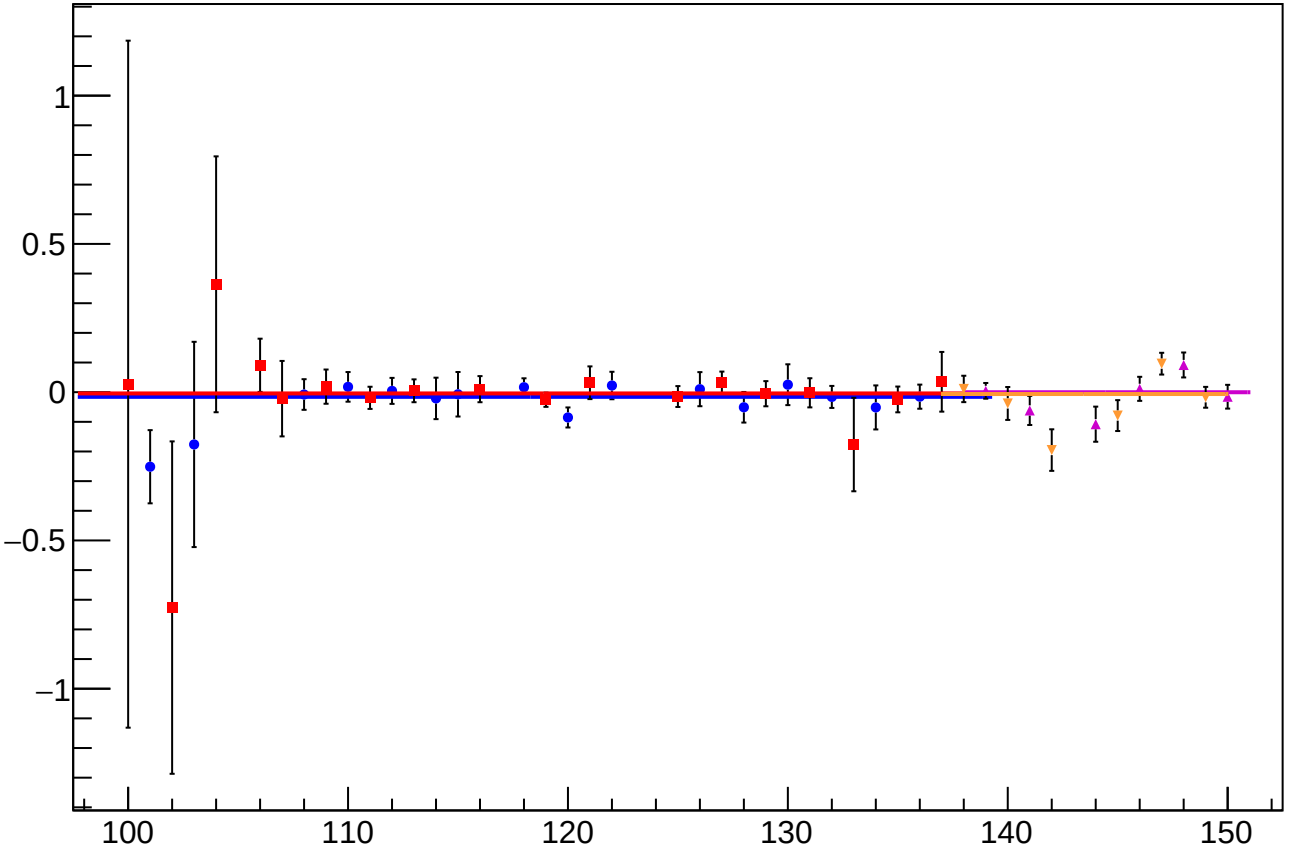
Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 29.850+/-0.007 $\chi^2$/NDF:3310971.1/21

Out: 27.670+/-0.007 $\chi^2$/NDF:3804711.0/23

All: 28.756+/-0.005 $\chi^2$/NDF: 7165859.8/45

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.006+/-0.018 $\chi^2$/NDF:17.6/5

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.000+/-0.016 $\chi^2$/NDF:9.9/5

Left: -0.003+/-0.012 $\chi^2$/NDF: 27.5/11

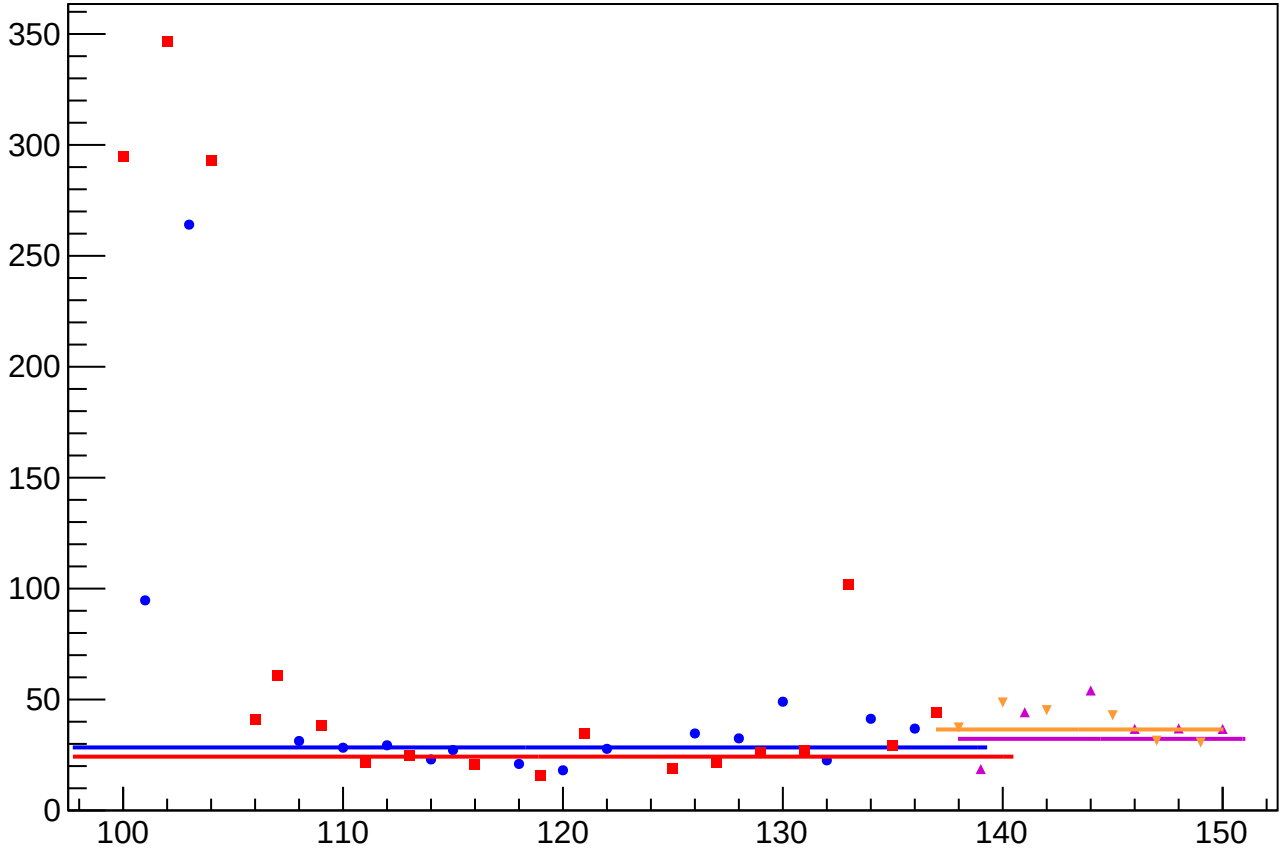
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.010+/-0.010 $\chi^2$/NDF:22.4/21

Out: -0.005+/-0.010 $\chi^2$/NDF:25.4/23

All: -0.007+/-0.007 $\chi^2$/NDF: 48.0/45

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245642.8/15

Left Out: 36.506+/-0.013 $\chi^2$/NDF:251751.7/5

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 32.273+/-0.011 $\chi^2$/NDF:991952.5/5

Left: 34.092+/-0.009 $\chi^2$/NDF: 1304068.5/11

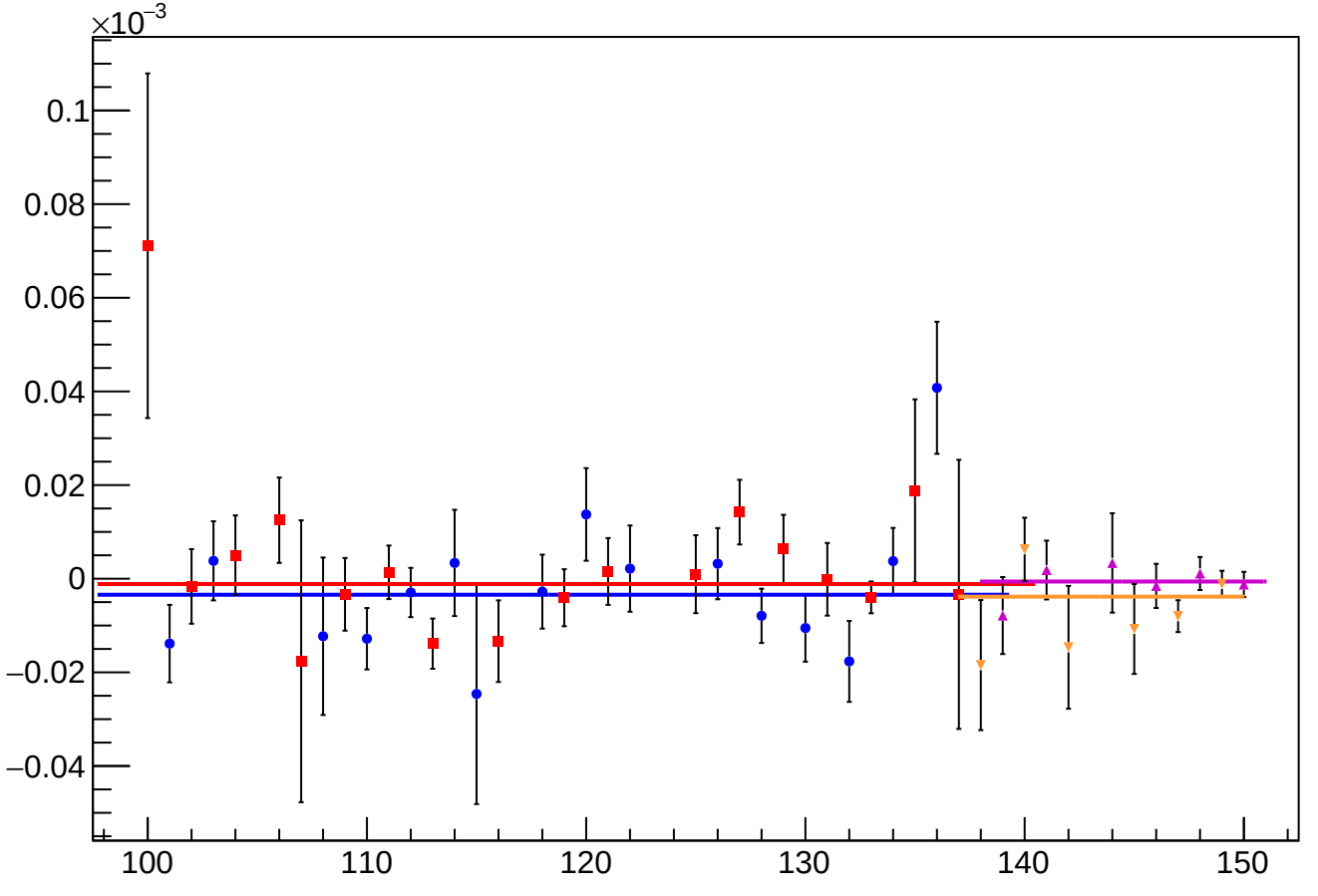
Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 29.850+/-0.007 $\chi^2$/NDF:3310971.1/21

Out: 27.670+/-0.007 $\chi^2$/NDF:3804711.0/23

All: 28.756+/-0.005 $\chi^2$/NDF: 7165859.8/45

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.0/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.4/5

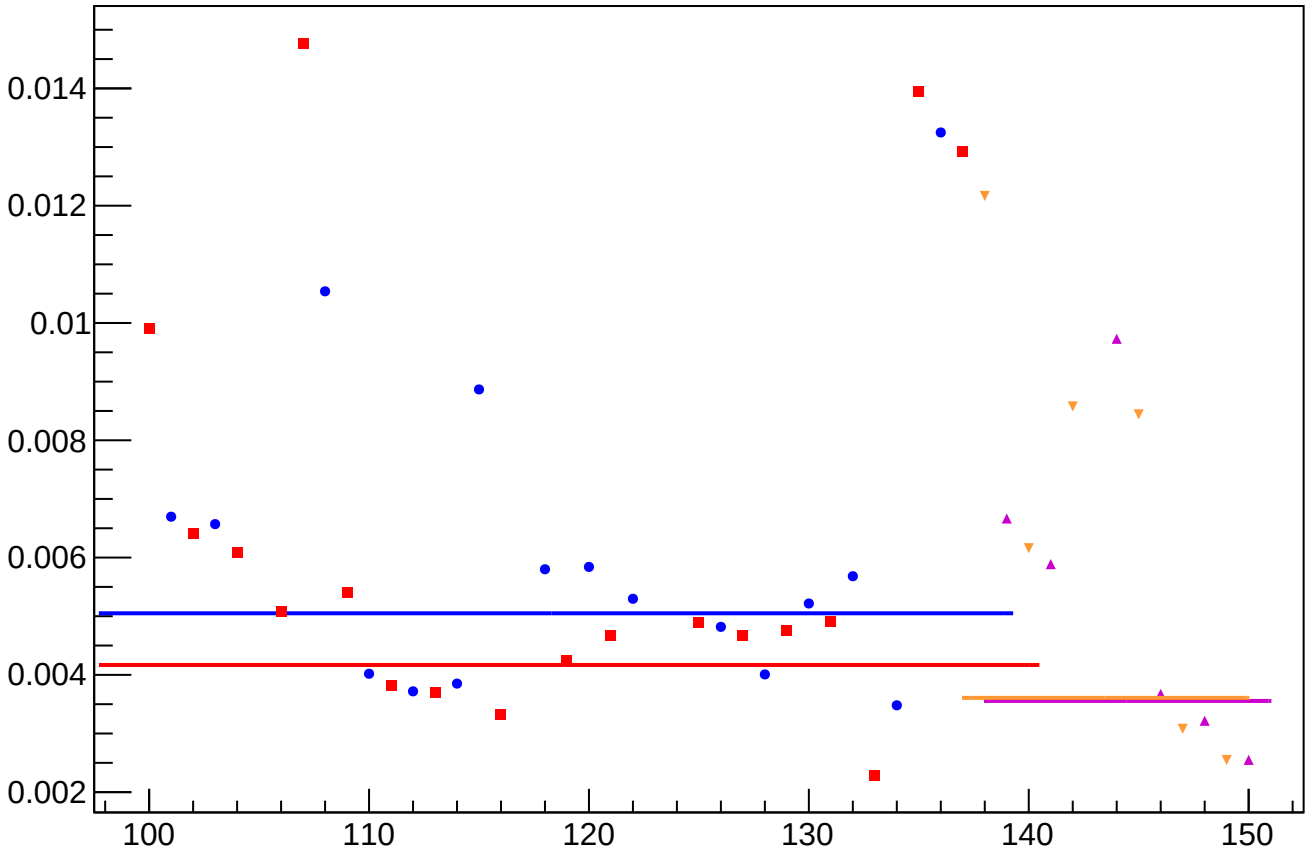
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.9/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:27.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:31.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 58.8/45




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1494215.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2177929.1/5

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2041975.6/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1537580.3/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 3716287.6/11

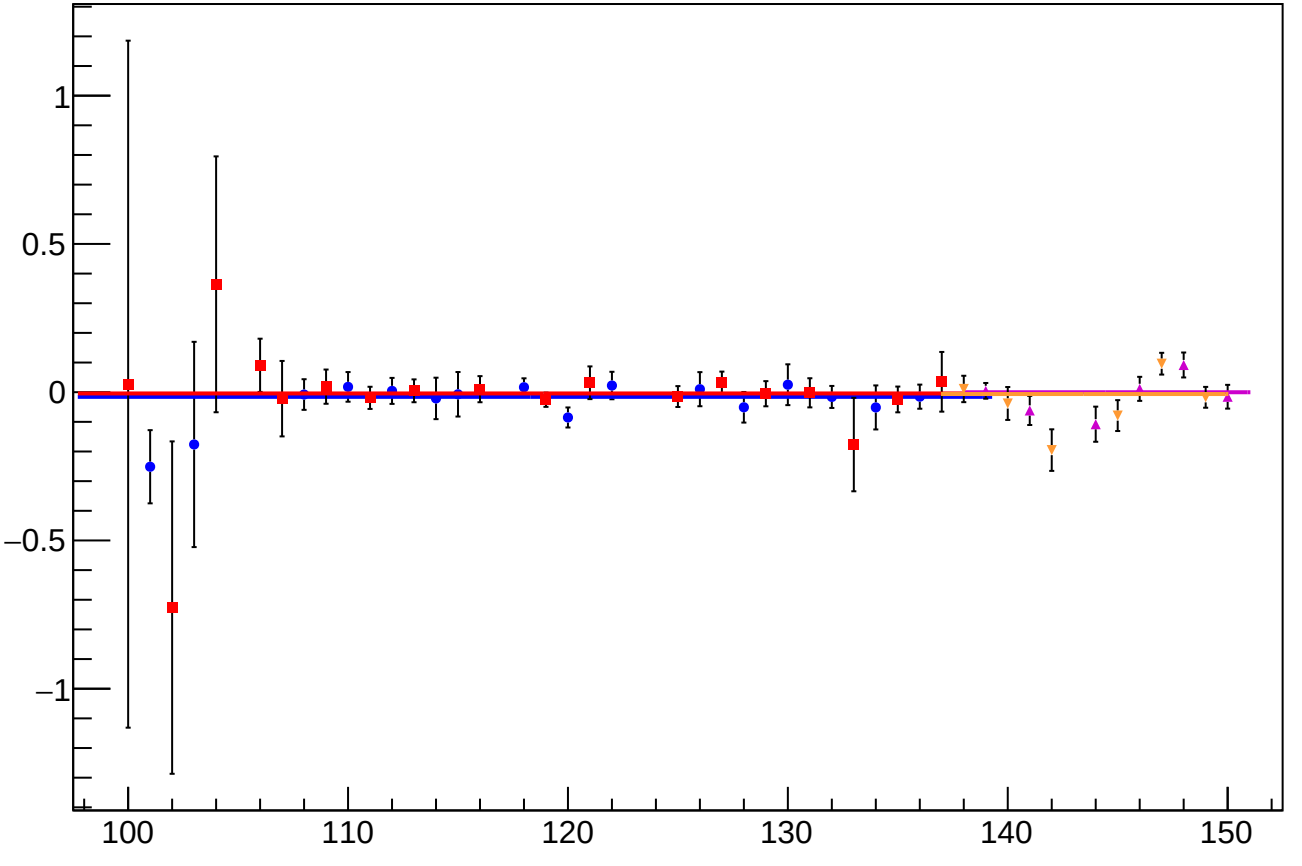
Right: 0.005+/-0.000 $\chi^2$/NDF: 3758667.6/33

In: 0.004+/-0.000 $\chi^2$/NDF:3643574.5/21

Out: 0.004+/-0.000 $\chi^2$/NDF:4313180.9/23

All: 0.004+/-0.000 $\chi^2$/NDF: 8003054.9/45

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.006+/-0.018 $\chi^2$/NDF:17.6/5

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.000+/-0.016 $\chi^2$/NDF:9.9/5

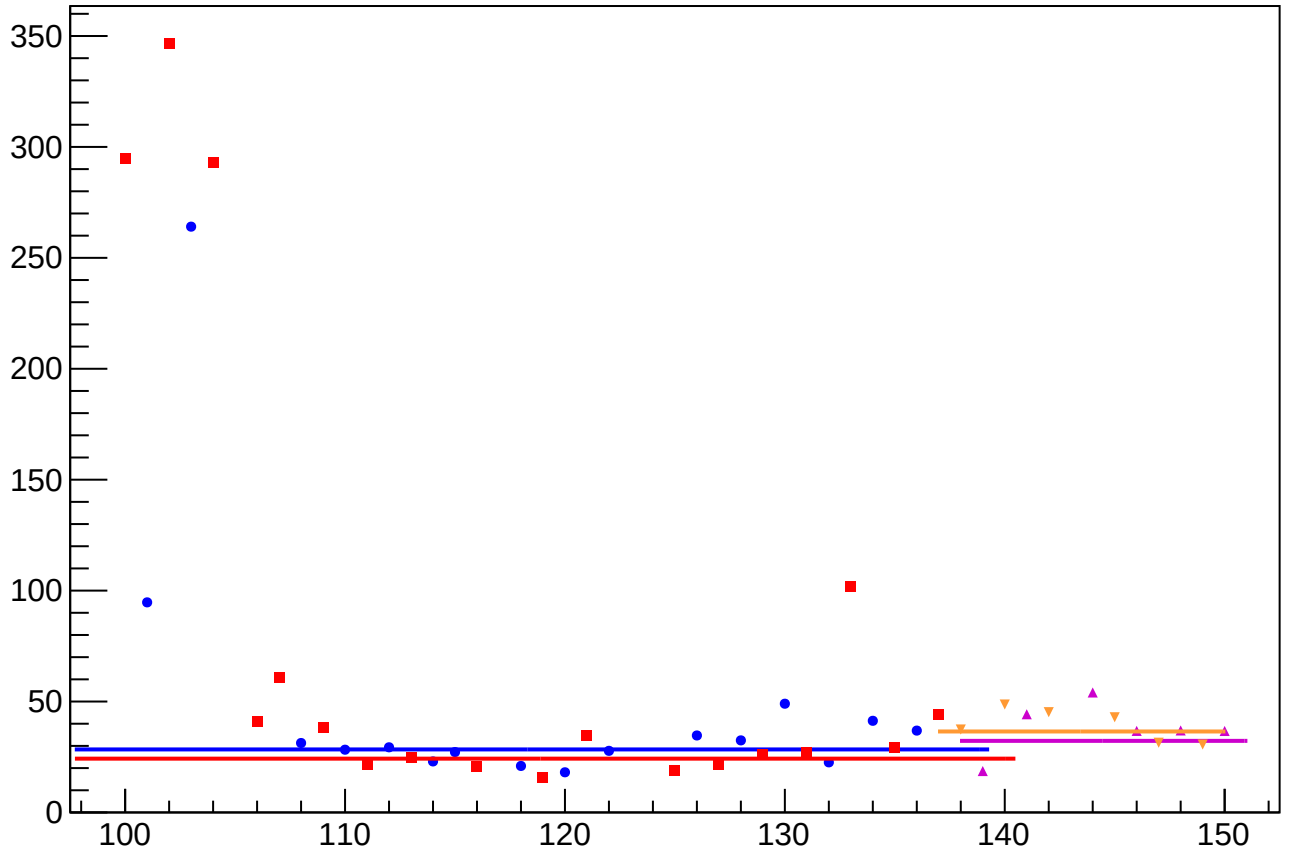
Left: -0.003+/-0.012 $\chi^2$/NDF: 27.5/11

Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.010+/-0.010 $\chi^2$/NDF:22.4/21

Out: -0.005+/-0.010 $\chi^2$/NDF:25.4/23

All: -0.007+/-0.007 $\chi^2$/NDF: 48.0/45




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245663.3/15

Left Out: 36.504+/-0.013 $\chi^2$/NDF:251857.5/5

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 32.270+/-0.011 $\chi^2$/NDF:992241.8/5

Left: 34.090+/-0.009 $\chi^2$/NDF: 1304502.6/11

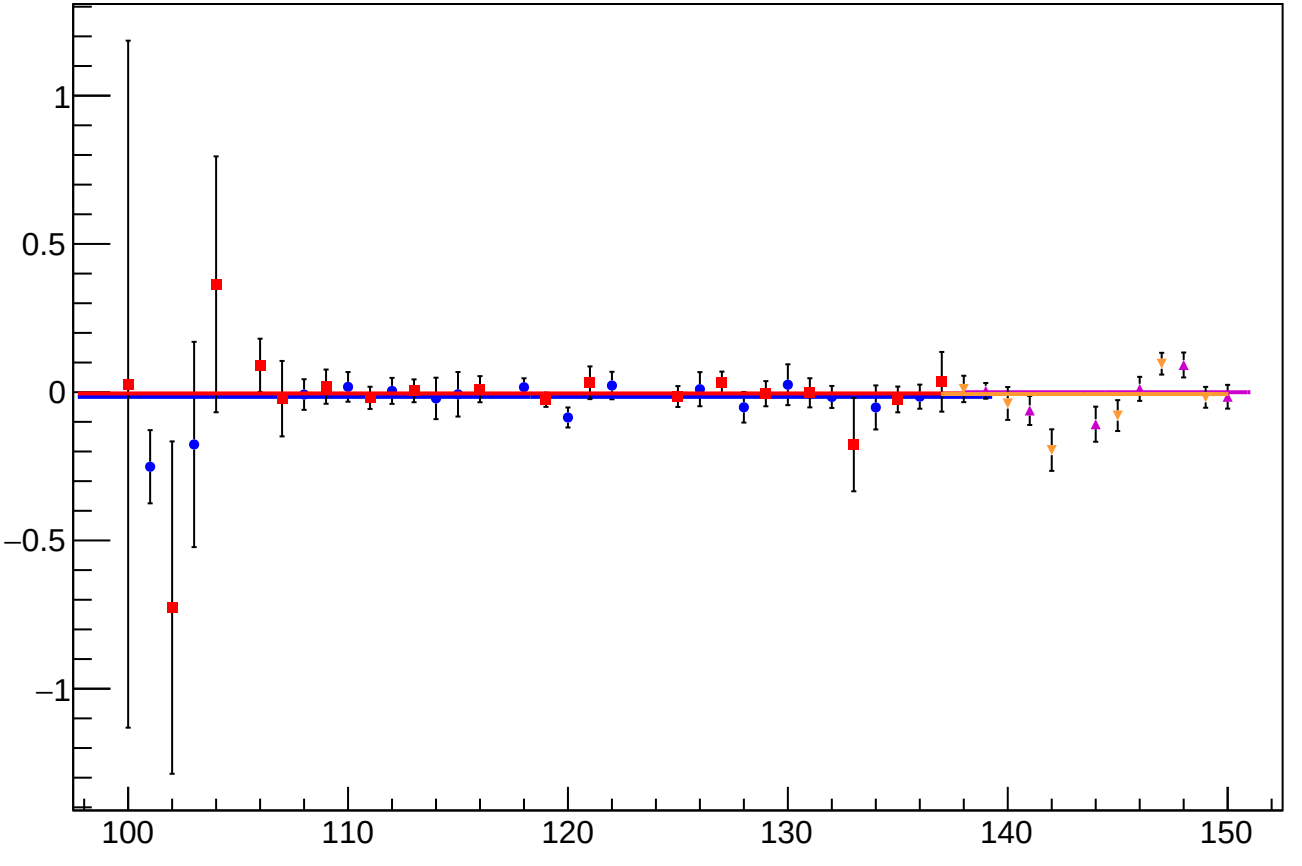
Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 29.849+/-0.007 $\chi^2$/NDF:3311186.4/21

Out: 27.668+/-0.007 $\chi^2$/NDF:3805107.9/23

All: 28.755+/-0.005 $\chi^2$/NDF: 7166509.2/45

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.006+/-0.018 $\chi^2$/NDF:17.6/5

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.000+/-0.016 $\chi^2$/NDF:9.9/5

Left: -0.003+/-0.012 $\chi^2$/NDF: 27.5/11

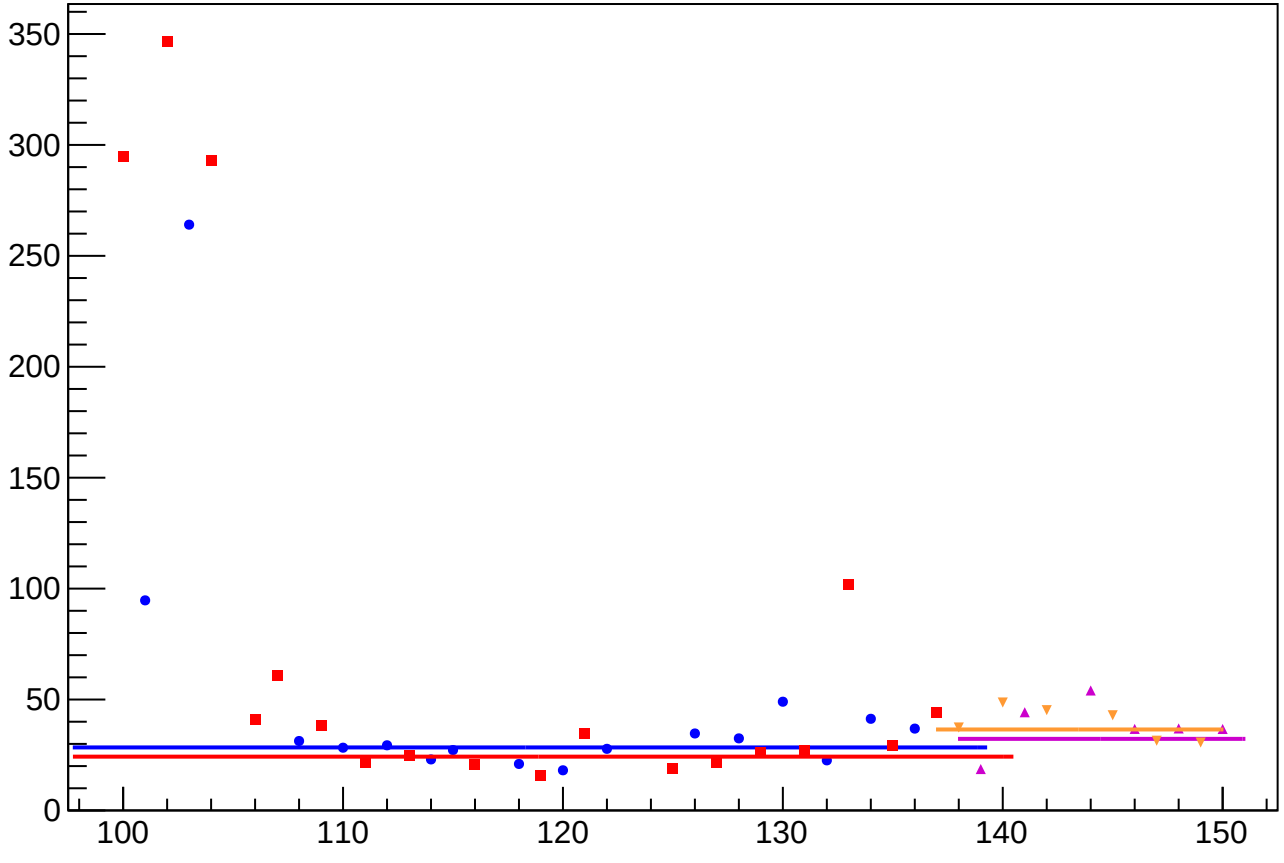
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.010+/-0.010 $\chi^2$/NDF:22.4/21

Out: -0.005+/-0.010 $\chi^2$/NDF:25.4/23

All: -0.007+/-0.007 $\chi^2$/NDF: 48.0/45

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245663.3/15

Left Out: 36.504+/-0.013 $\chi^2$/NDF:251857.5/5

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 32.270+/-0.011 $\chi^2$/NDF:992241.8/5

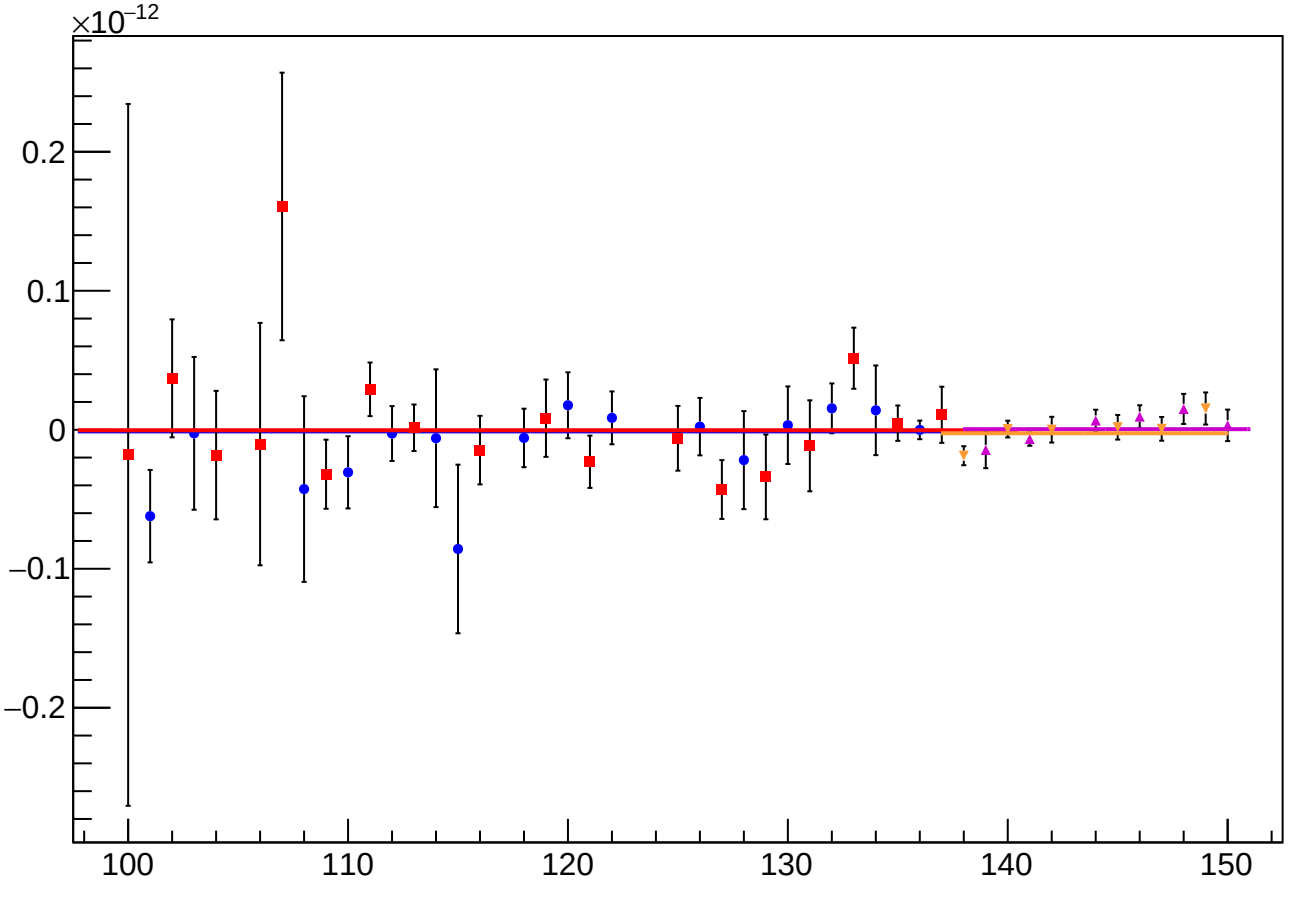
Left: 34.090+/-0.009 $\chi^2$/NDF: 1304502.6/11

Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 29.849+/-0.007 $\chi^2$/NDF:3311186.4/21

Out: 27.668+/-0.007 $\chi^2$/NDF:3805107.9/23

All: 28.755+/-0.005 $\chi^2$/NDF: 7166509.2/45




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.7/5

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.1/5

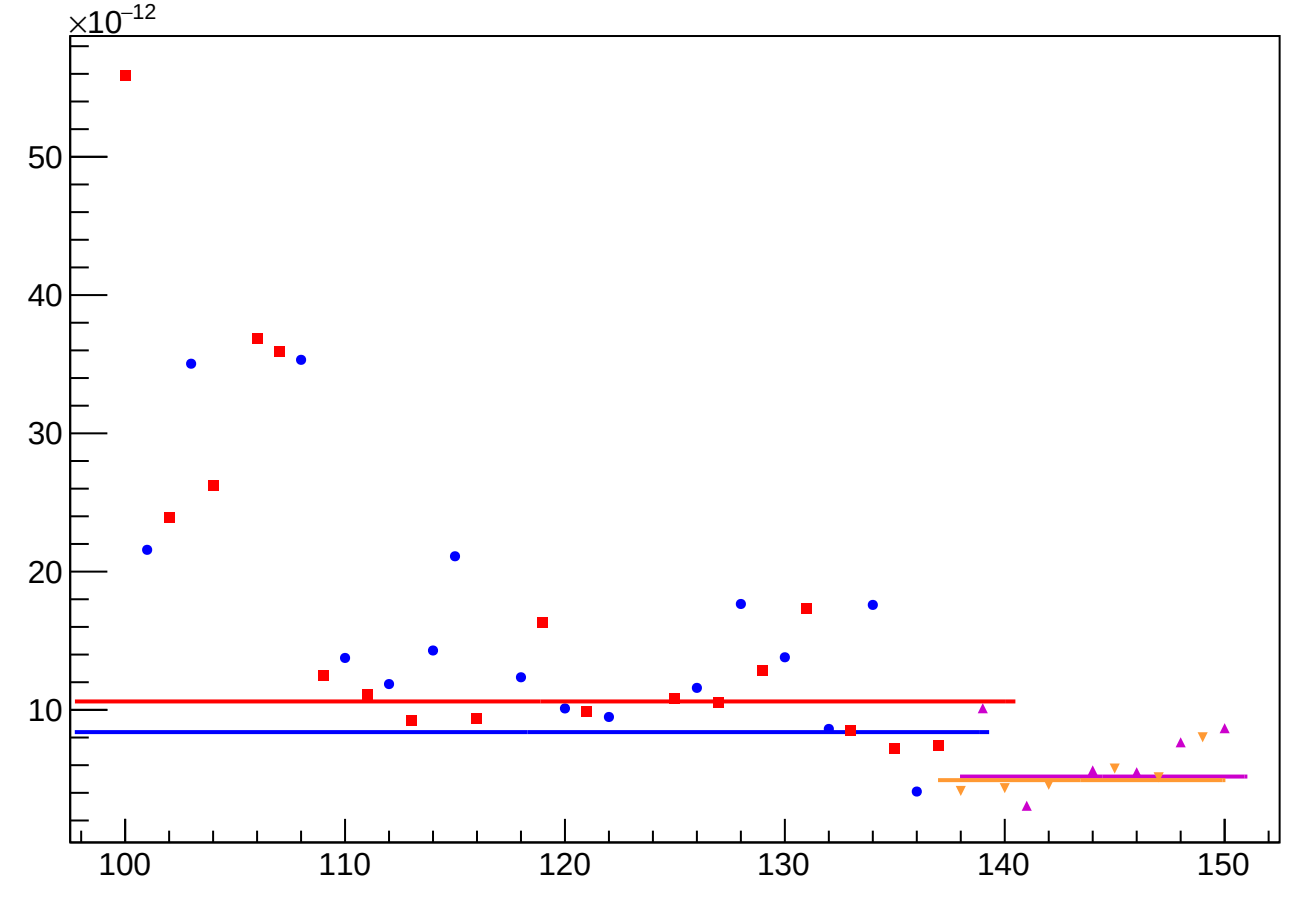
Left: -0.000+/-0.000 $\chi^2$/NDF: 16.2/11

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:16.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.7/45




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2710106.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:210125.0/5

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1233909.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:965070.2/5

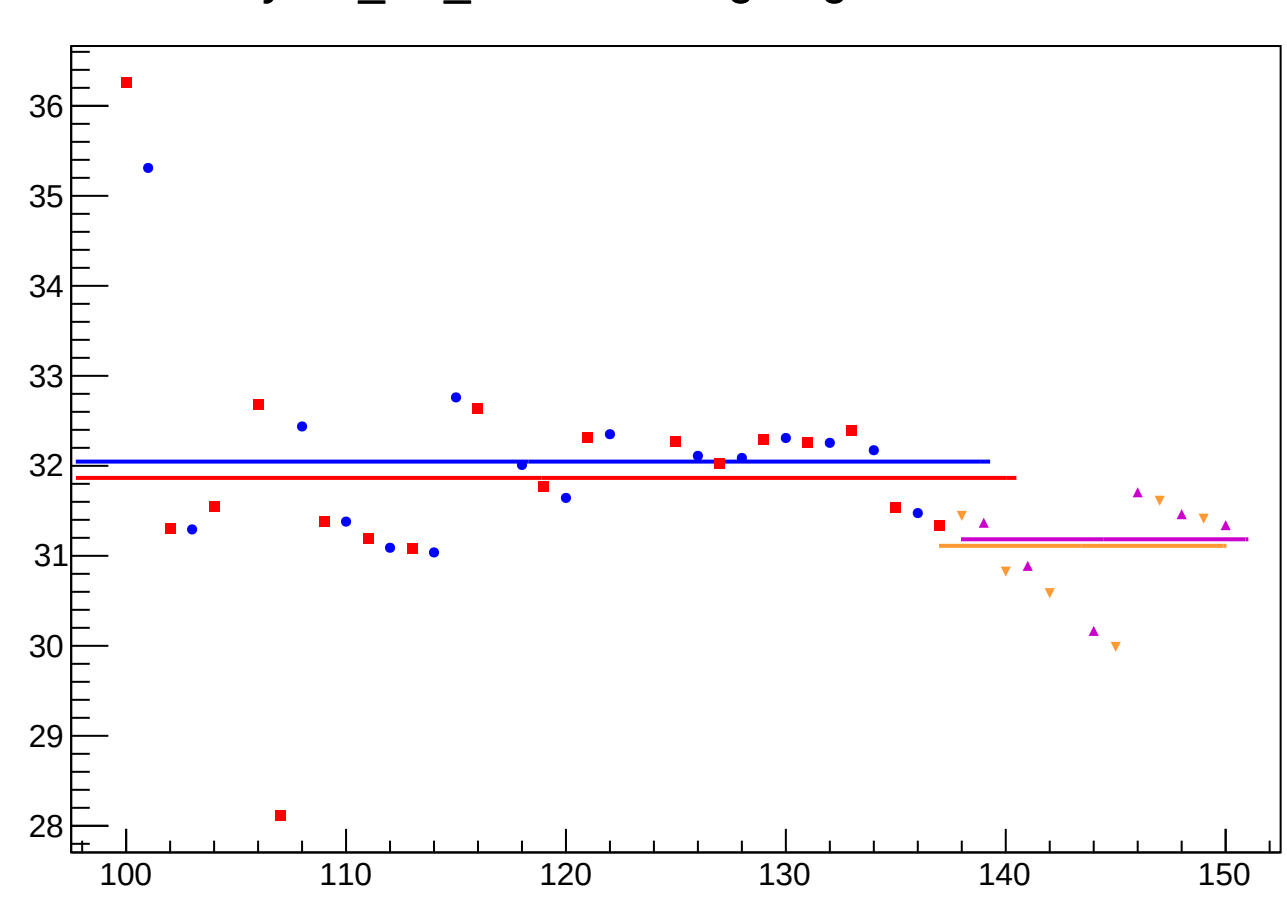
Left: 0.000+/-0.000 $\chi^2$/NDF: 1181627.9/11

Right: 0.000+/-0.000 $\chi^2$/NDF: 4124908.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:4296931.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2982910.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7283323.7/45




Right In: 32.047+/-0.000 $\chi^2$/NDF: 898593424.6/15

Left Out: 31.111+/-0.000 $\chi^2$/NDF:177868750.2/5

Right Out: 31.866+/-0.000 $\chi^2$/NDF: 485941075.6/17

Left In: 31.184+/-0.000 $\chi^2$/NDF:171277689.9/5

Left: 31.150+/-0.000 $\chi^2$/NDF: 350856394.6/11

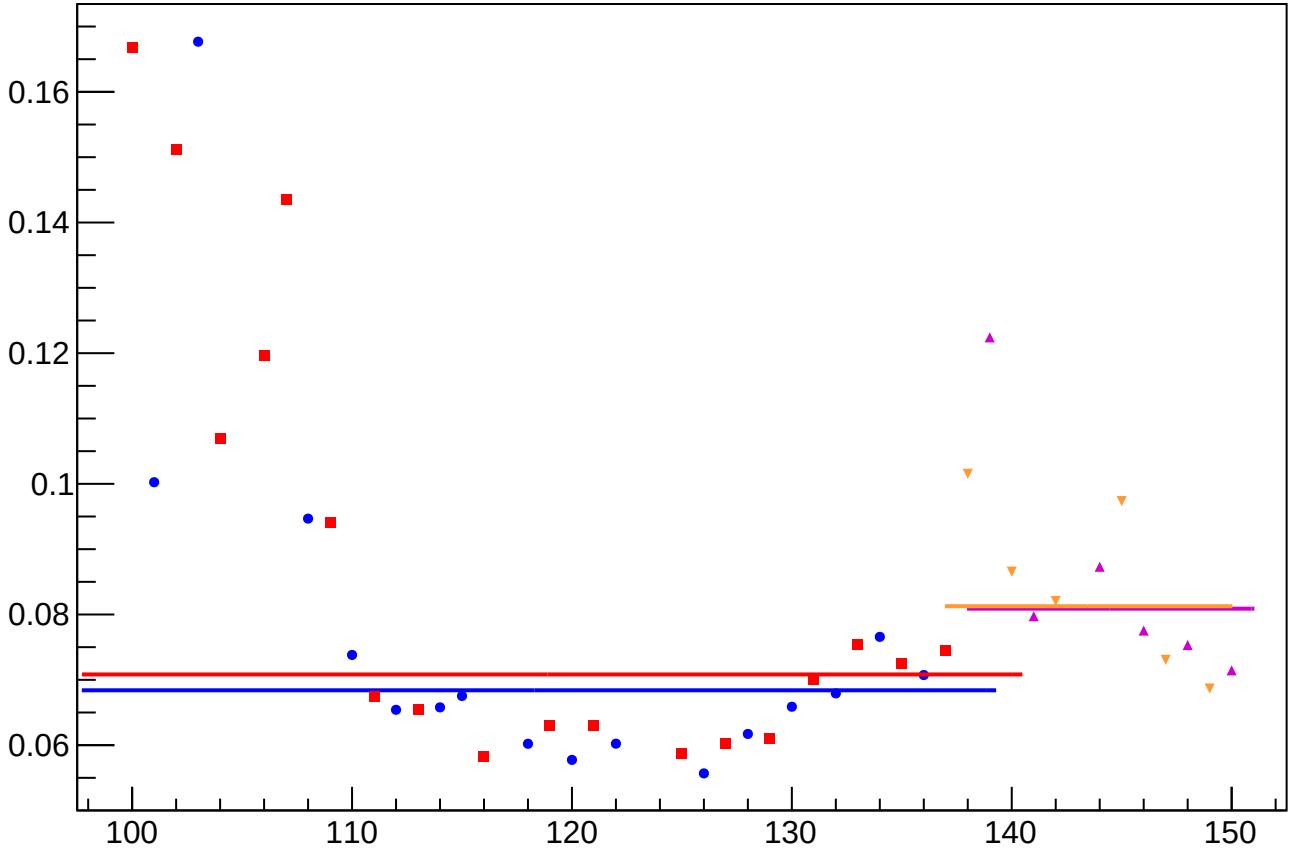
Right: 31.960+/-0.000 $\chi^2$/NDF: 1405663241.1/33

In: 31.750+/-0.000 $\chi^2$/NDF:1413232176.8/21

Out: 31.620+/-0.000 $\chi^2$/NDF:894130949.0/23

All: 31.688+/-0.000 $\chi^2$/NDF: 2323620330.7/4

# yield_usl_rms vs Slug, Sign Corrected




Right In: 0.068+/-0.000 $\chi^2$/NDF: 703207.9/15

Left Out: 0.081+/-0.000 $\chi^2$/NDF:173511.8/5

Right Out: 0.071+/-0.000 $\chi^2$/NDF: 868237.4/17

Left In: 0.081+/-0.000 $\chi^2$/NDF:230337.4/5

Left: 0.081+/-0.000 $\chi^2$/NDF: 403940.2/11

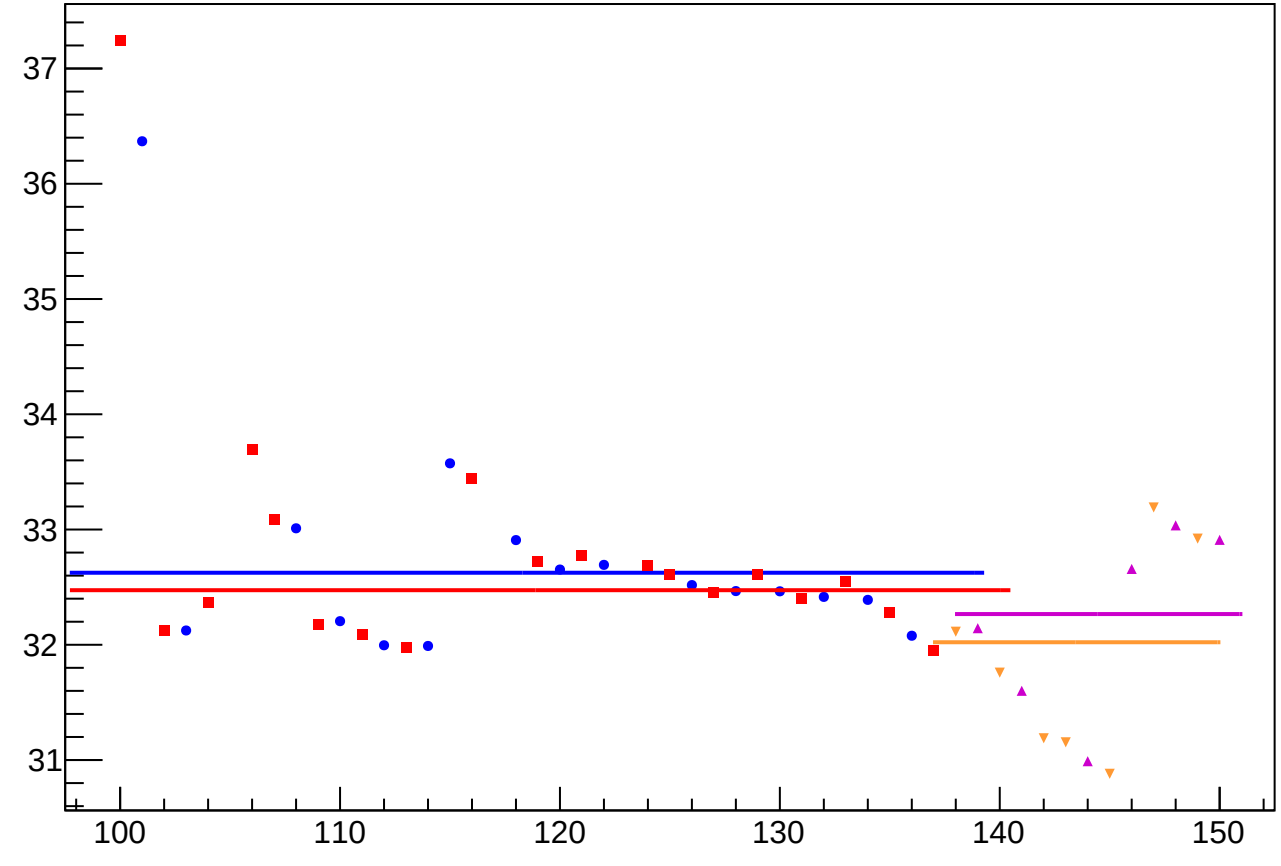
Right: 0.070+/-0.000 $\chi^2$/NDF: 1579028.4/33

In: 0.073+/-0.000 $\chi^2$/NDF:1077450.4/21

Out: 0.074+/-0.000 $\chi^2$/NDF:1129955.0/23

All: 0.073+/-0.000 $\chi^2$/NDF: 2211898.8/45

# yield_usr_mean vs Slug, Sign Corrected




Right In: 32.625+/-0.000 $\chi^2$/NDF: 739141163.5/15

Left Out: 32.022+/-0.000 $\chi^2$/NDF:608628863.5/6

Right Out: 32.474+/-0.000 $\chi^2$/NDF: 156801553.7/18

Left In: 32.267+/-0.000 $\chi^2$/NDF:472114506.8/5

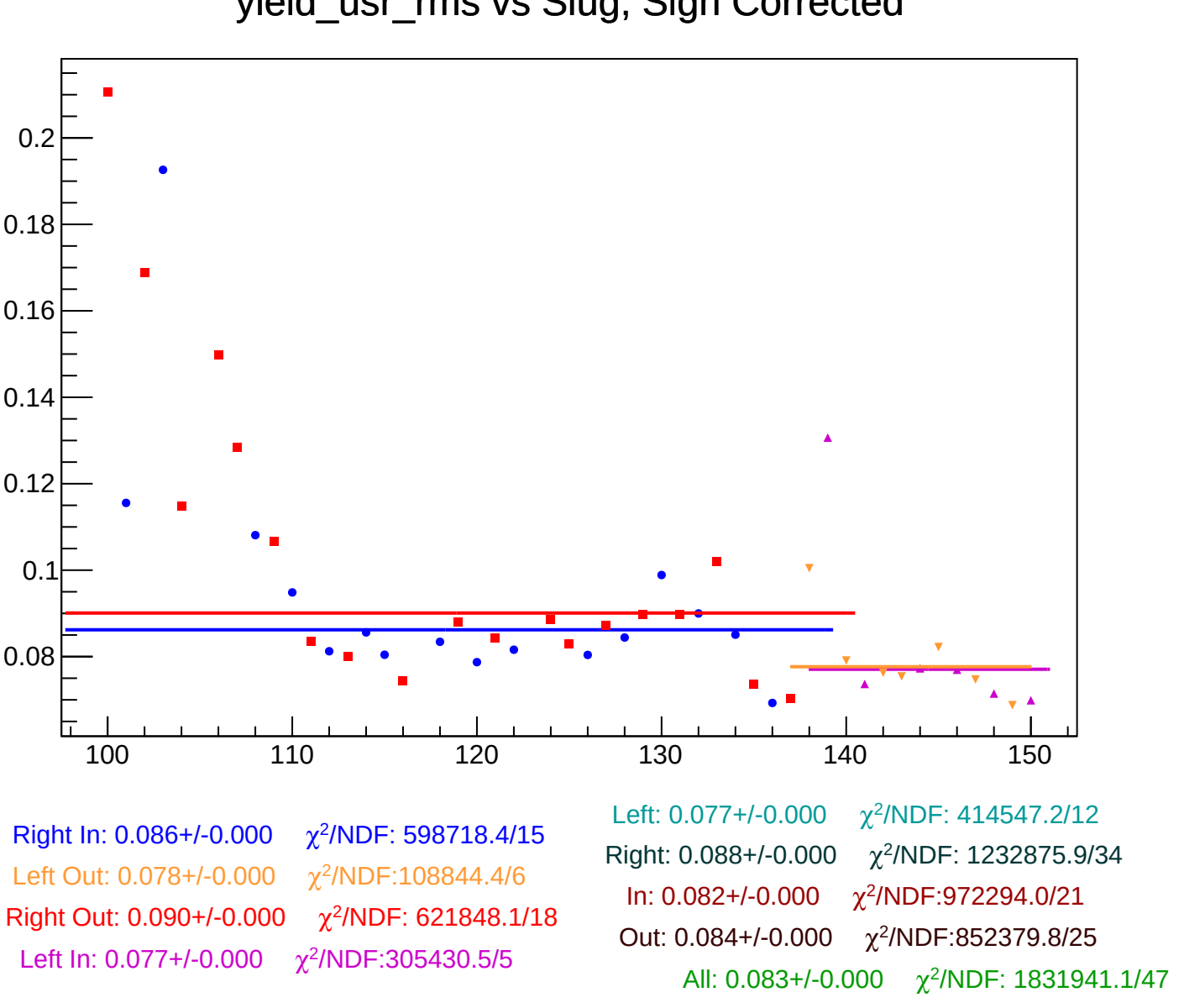
Left: 32.145+/-0.000 $\chi^2$/NDF: 1104304264.6/12

Right: 32.552+/-0.000 $\chi^2$/NDF: 905331922.0/34

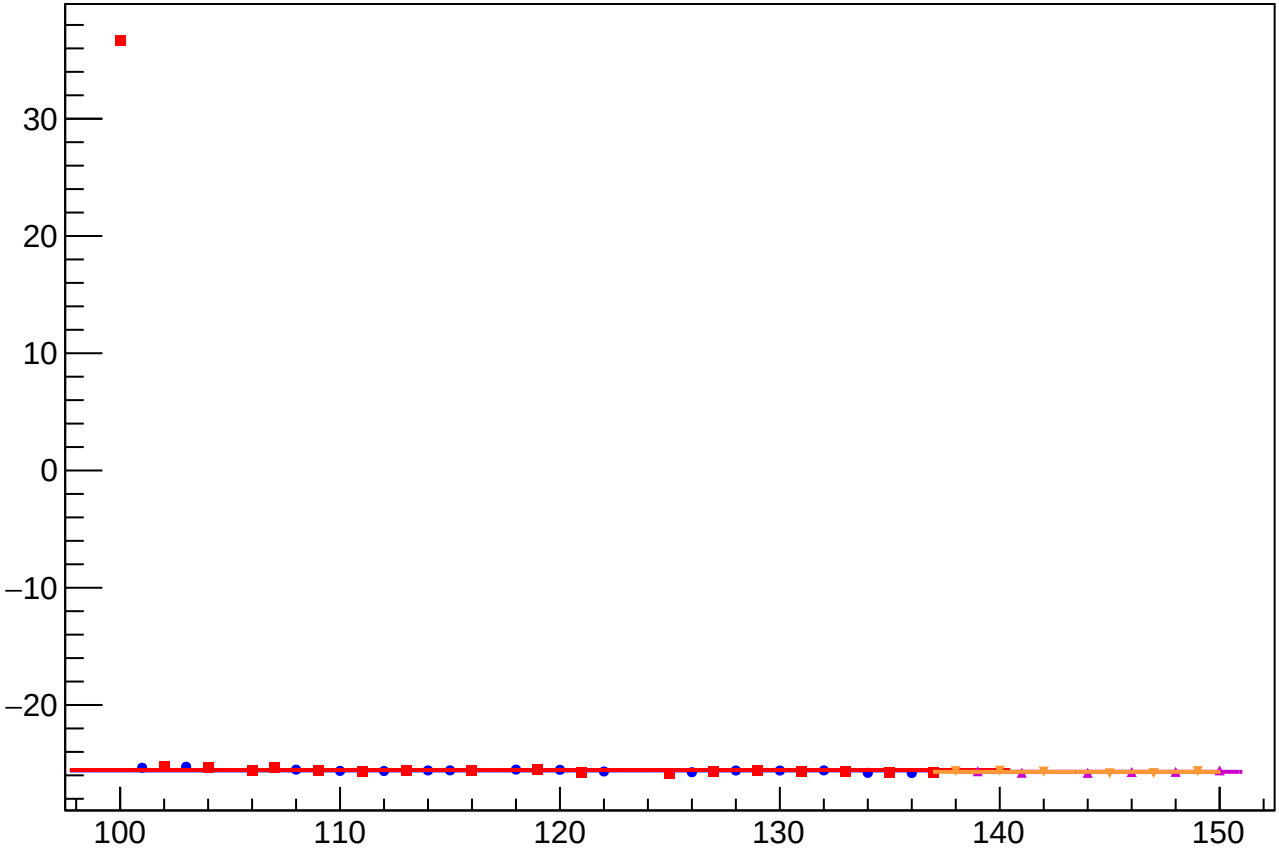
In: 32.452+/-0.000 $\chi^2$/NDF:1263752858.1/21

Out: 32.249+/-0.000 $\chi^2$/NDF:845853195.5/25

All: 32.352+/-0.000 $\chi^2$/NDF: 2142481923.8/4


yield_usr_rms vs Slug, Sign Corrected
0.2
0.18
0.16
0.14
0.12
0.1
0.08
100
110
120
130
140
150
Right In: 0.086+/-0.000 χ²/NDF: 598718.4/15
Left Out: 0.078+/-0.000 χ²/NDF:108844.4/6
Right Out: 0.090+/-0.000 χ²/NDF: 621848.1/18
Left In: 0.077+/-0.000 χ²/NDF:305430.5/5
Left: 0.077+/-0.000 χ²/NDF: 414547.2/12
Right: 0.088+/-0.000 χ²/NDF: 1232875.9/34
In: 0.082+/-0.000 χ²/NDF:972294.0/21
Out: 0.084+/-0.000 χ²/NDF:852379.8/25
All: 0.083+/-0.000 χ²/NDF: 1831941.1/47

# yield_dsl_mean vs Slug, Sign Corrected




Right In: -25.579+/-0.000 $\chi^2$/NDF: 98389255.1/15

Left Out: -25.702+/-0.000 $\chi^2$/NDF:17814472.5/5

Right Out: -25.544+/-0.000 $\chi^2$/NDF: 8907540506.8/17

Left In: -25.698+/-0.000 $\chi^2$/NDF:15619718.5/5

Left: -25.700+/-0.000 $\chi^2$/NDF: 33450304.7/11

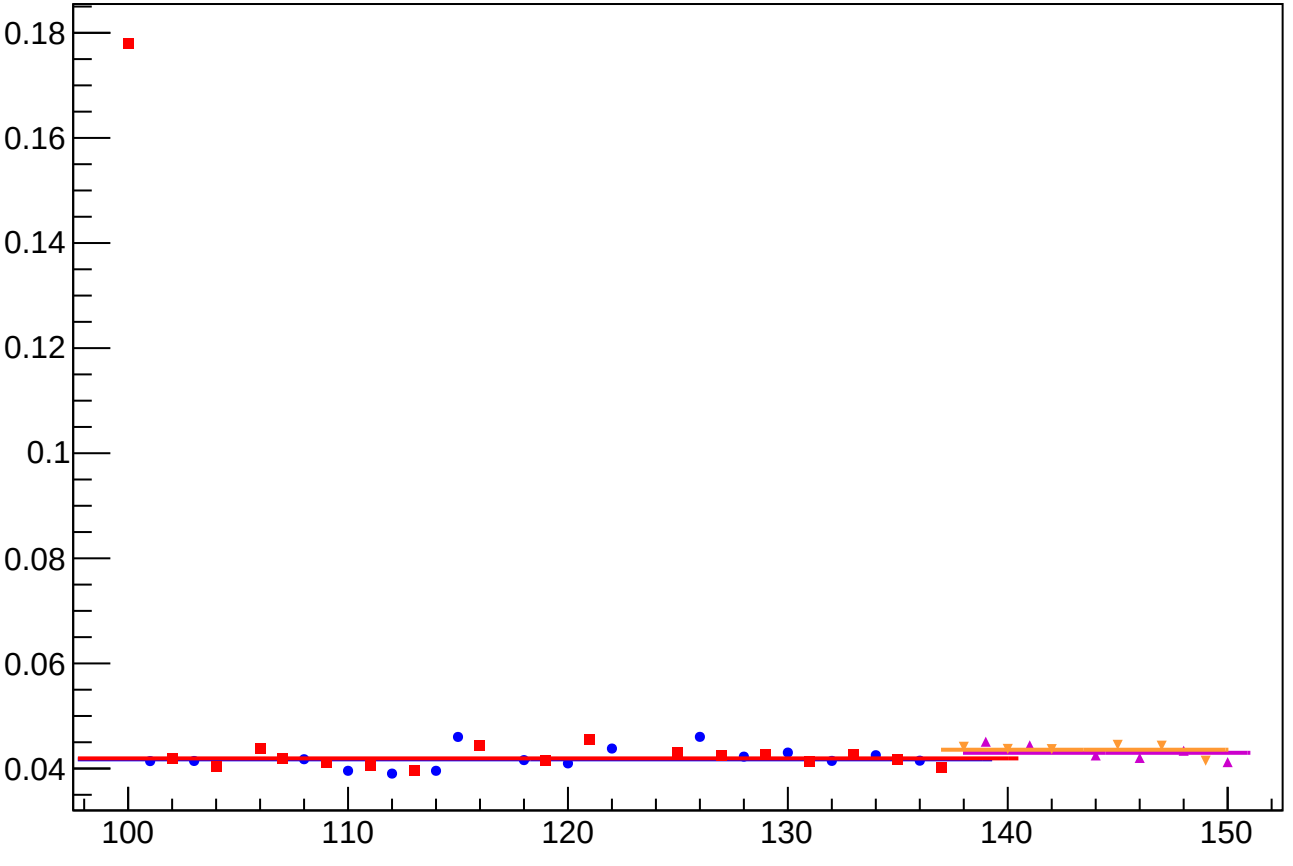
Right: -25.561+/-0.000 $\chi^2$/NDF: 9008481743.9/33

In: -25.627+/-0.000 $\chi^2$/NDF:137662154.1/21

Out: -25.601+/-0.000 $\chi^2$/NDF:8962705837.6/23

All: -25.615+/-0.000 $\chi^2$/NDF: 9102644211.4/

# yield_dsl_rms vs Slug, Sign Corrected




Right In: 0.042+/-0.000 $\chi^2$/NDF: 20733.3/15

Left Out: 0.044+/-0.000 $\chi^2$/NDF:5660.9/5

Right Out: 0.042+/-0.000 $\chi^2$/NDF: 100140.4/17

Left In: 0.043+/-0.000 $\chi^2$/NDF:10064.9/5

Left: 0.043+/-0.000 $\chi^2$/NDF: 16605.4/11

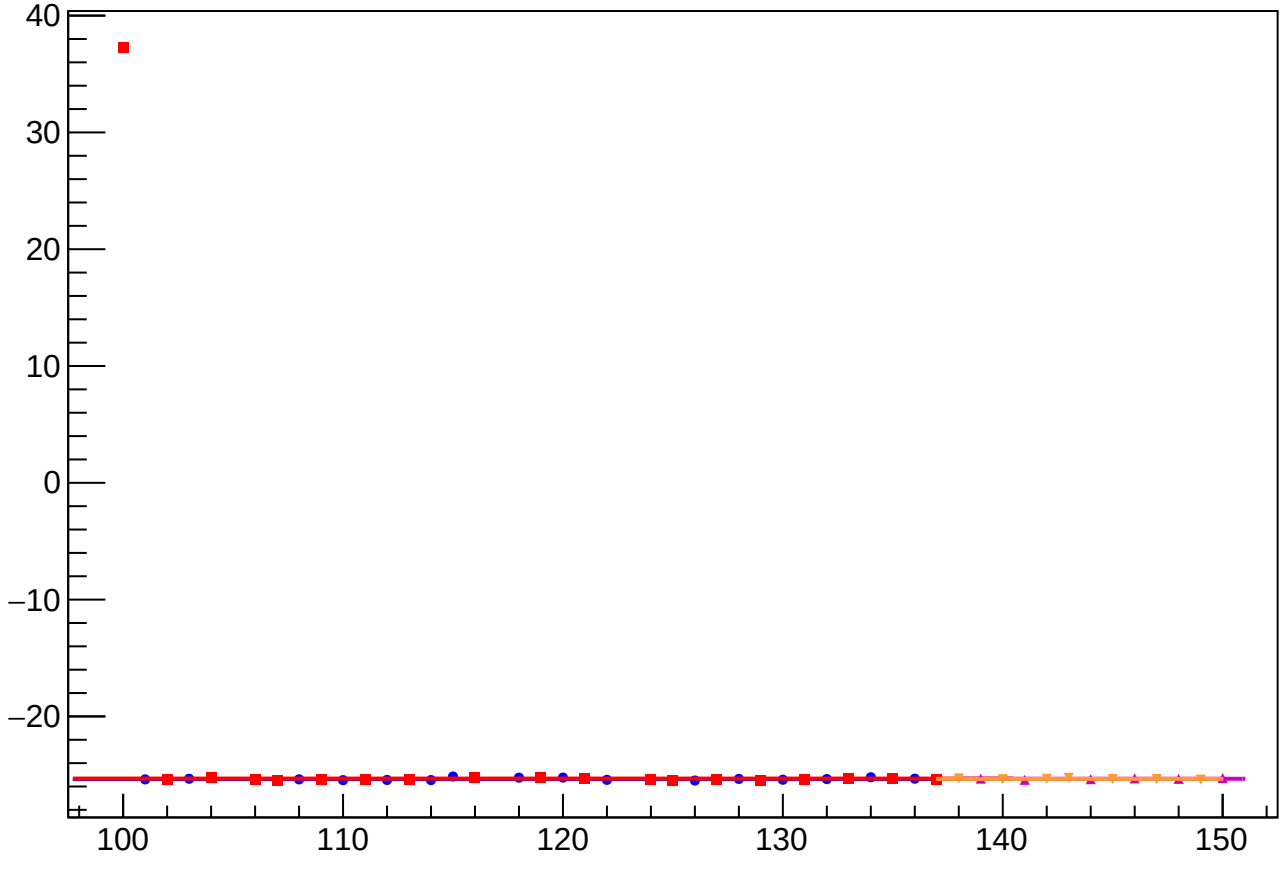
Right: 0.042+/-0.000 $\chi^2$/NDF: 121007.1/33

In: 0.042+/-0.000 $\chi^2$/NDF:35979.6/21

Out: 0.043+/-0.000 $\chi^2$/NDF:113980.8/23

All: 0.042+/-0.000 $\chi^2$/NDF: 150468.8/45

# yield_dsr_mean vs Slug, Sign Corrected




Right In: -25.360+/-0.000 $\chi^2$/NDF: 13284405.9/15

Left Out: -25.349+/-0.000 $\chi^2$/NDF:3510787.0/6

Right Out: -25.322+/-0.000 $\chi^2$/NDF: 6314907036.5/18

Left In: -25.338+/-0.000 $\chi^2$/NDF:3798709.4/5

Left: -25.344+/-0.000 $\chi^2$/NDF: 7406060.3/12

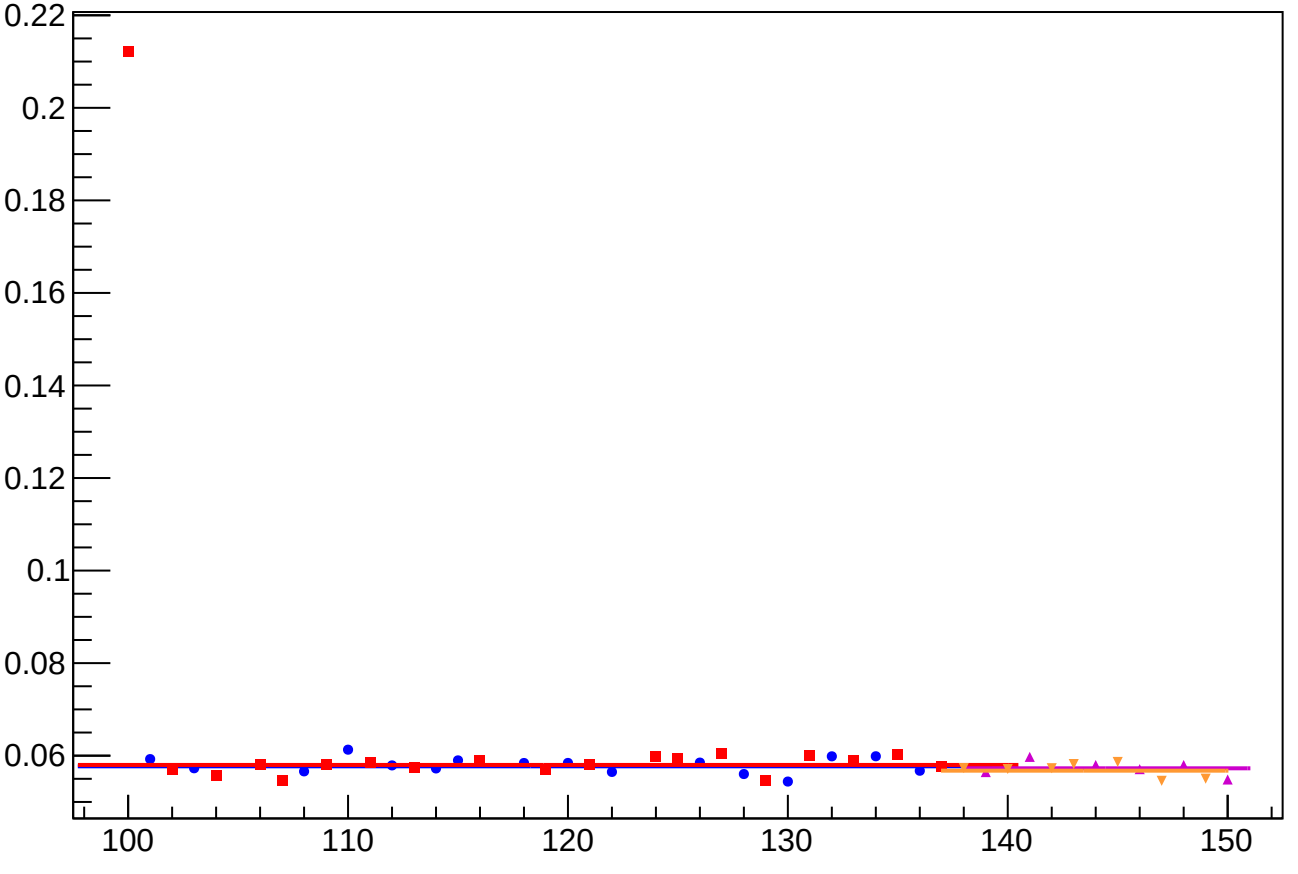
Right: -25.341+/-0.000 $\chi^2$/NDF: 6329738520.5/34

In: -25.351+/-0.000 $\chi^2$/NDF:17511479.3/21

Out: -25.334+/-0.000 $\chi^2$/NDF:6319102852.7/25

All: -25.342+/-0.000 $\chi^2$/NDF: 6337161061.3/

# yield_dsr_rms vs Slug, Sign Corrected




Right In: 0.058+/-0.000 $\chi^2$/NDF: 11763.6/15

Left Out: 0.057+/-0.000 $\chi^2$/NDF:6983.8/6

Right Out: 0.058+/-0.000 $\chi^2$/NDF: 88682.9/18

Left In: 0.057+/-0.000 $\chi^2$/NDF:7156.6/5

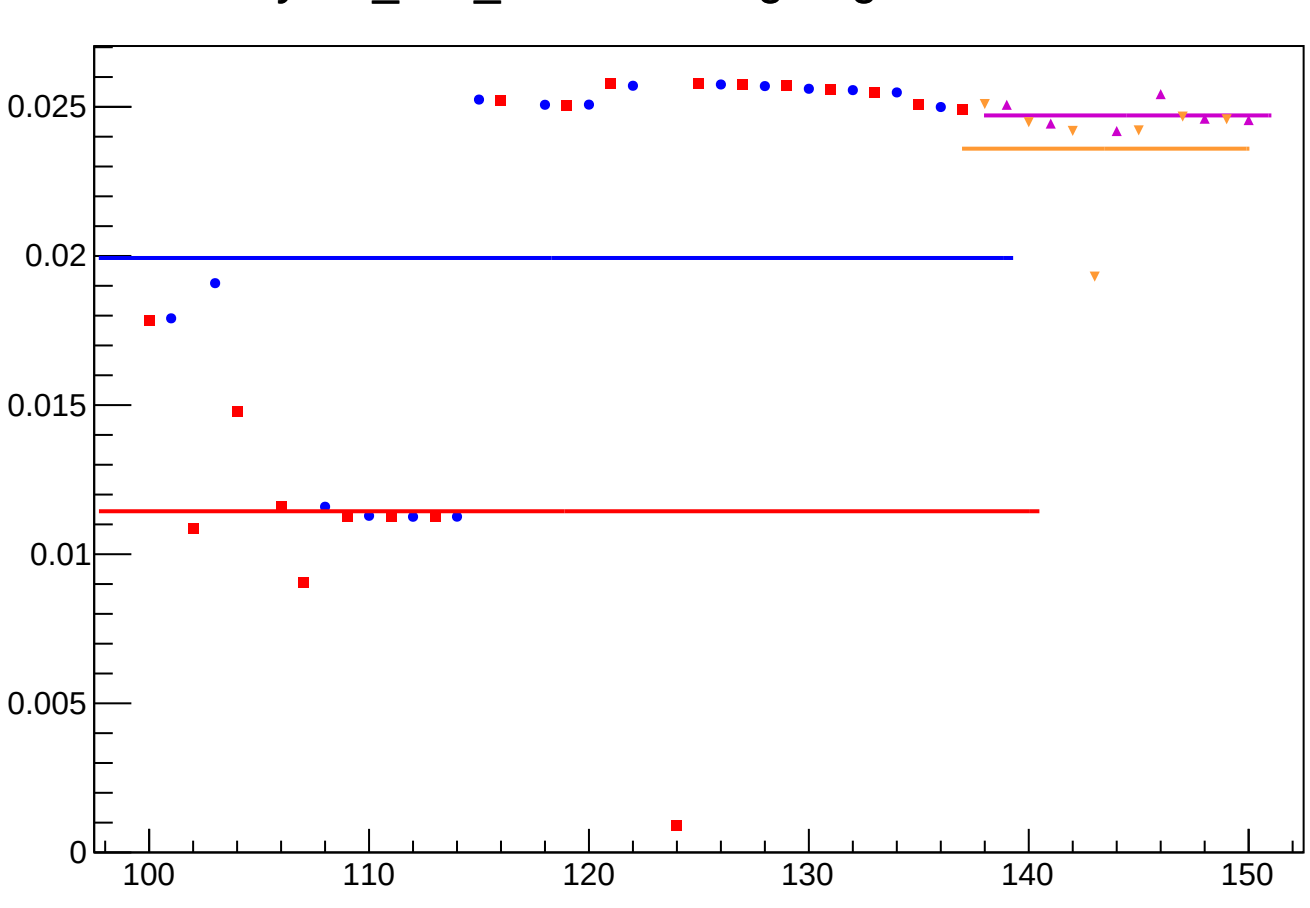
Left: 0.057+/-0.000 $\chi^2$/NDF: 14548.6/12

Right: 0.058+/-0.000 $\chi^2$/NDF: 100633.0/34

In: 0.058+/-0.000 $\chi^2$/NDF:19251.9/21

Out: 0.057+/-0.000 $\chi^2$/NDF:98471.3/25

All: 0.057+/-0.000 $\chi^2$/NDF: 117731.7/47




Right In: 0.020+/-0.000 $\chi^2$/NDF: 62465154056.0/15

Left Out: 0.024+/-0.000 $\chi^2$/NDF:4116299379.1/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 253880264851.8/18

Left In: 0.025+/-0.000 $\chi^2$/NDF:152256995.5/5

Left: 0.024+/-0.000 $\chi^2$/NDF: 4855435113.7/12

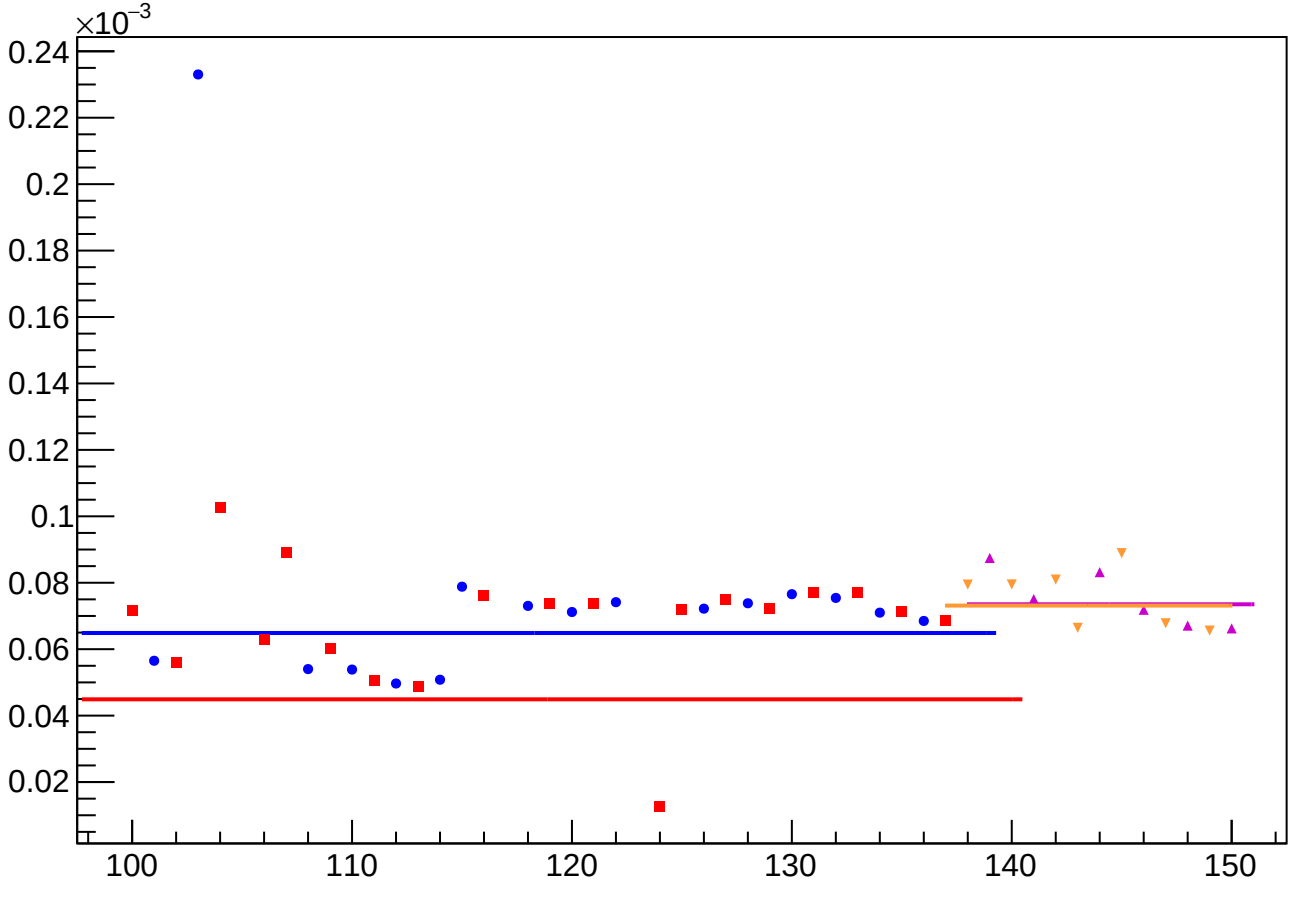
Right: 0.015+/-0.000 $\chi^2$/NDF: 385775066677.0/34

In: 0.022+/-0.000 $\chi^2$/NDF:75971654795.1/21

Out: 0.015+/-0.000 $\chi^2$/NDF:360381253776.5/25

All: 0.018+/-0.000 $\chi^2$/NDF: 506410936524.5

# yield_atl1_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 816892.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:124661.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3770565.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:102577.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 227381.1/12

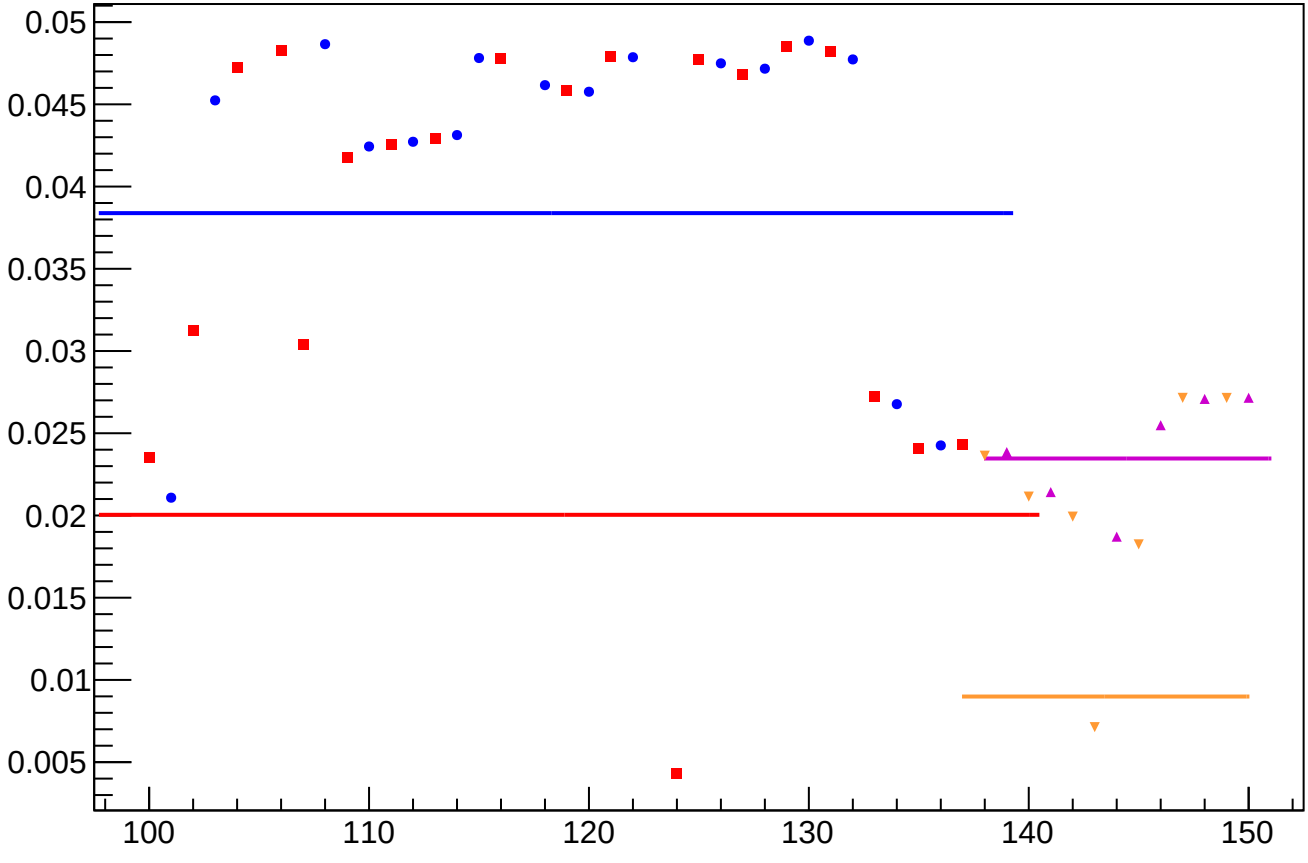
Right: 0.000+/-0.000 $\chi^2$/NDF: 5354969.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:1006715.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4998222.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6698657.1/47

# yield_atl2_mean vs Slug, Sign Corrected




Right In: 0.038+/-0.000 $\chi^2$/NDF: 7078619233.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:13537768418.8/6

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 42185025429.6/18

Left In: 0.023+/-0.000 $\chi^2$/NDF:746567937.5/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 26050893330.7/12

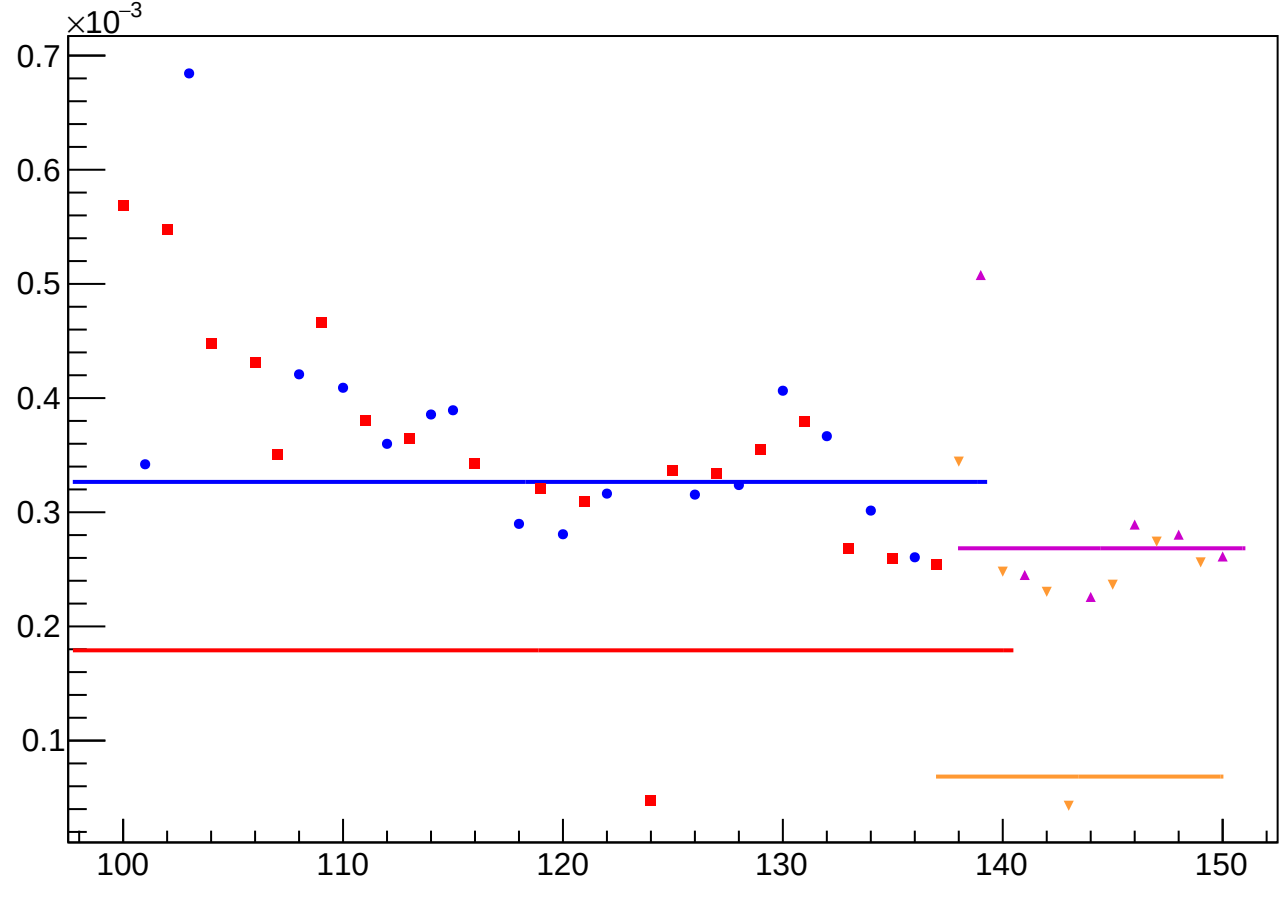
Right: 0.026+/-0.000 $\chi^2$/NDF: 62680347103.1/34

In: 0.031+/-0.000 $\chi^2$/NDF:14639781121.5/21

Out: 0.011+/-0.000 $\chi^2$/NDF:67672366070.5/25

All: 0.014+/-0.000 $\chi^2$/NDF: 121147322158.9

# yield_atl2_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 581428.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4929221.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5660786.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:439563.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 9860020.5/12

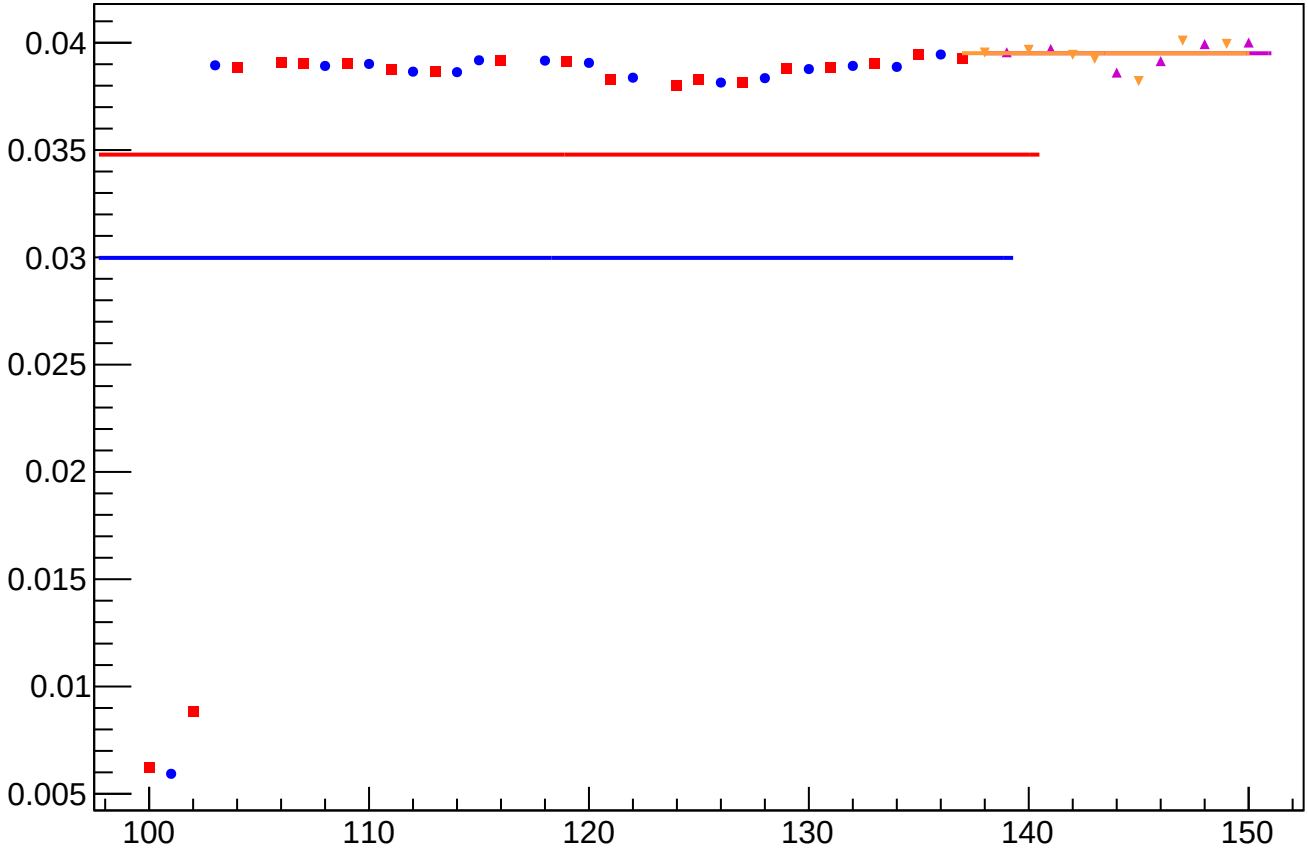
Right: 0.000+/-0.000 $\chi^2$/NDF: 7977614.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:1228004.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:12983283.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 22898264.6/47

# yield_atr1_mean vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 108275706275.7/15

Left Out: 0.040+/-0.000 $\chi^2$/NDF:86678882.8/6

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 47263545471.6/18

Left In: 0.040+/-0.000 $\chi^2$/NDF:63675209.7/5

Left: 0.040+/-0.000 $\chi^2$/NDF: 150356376.3/12

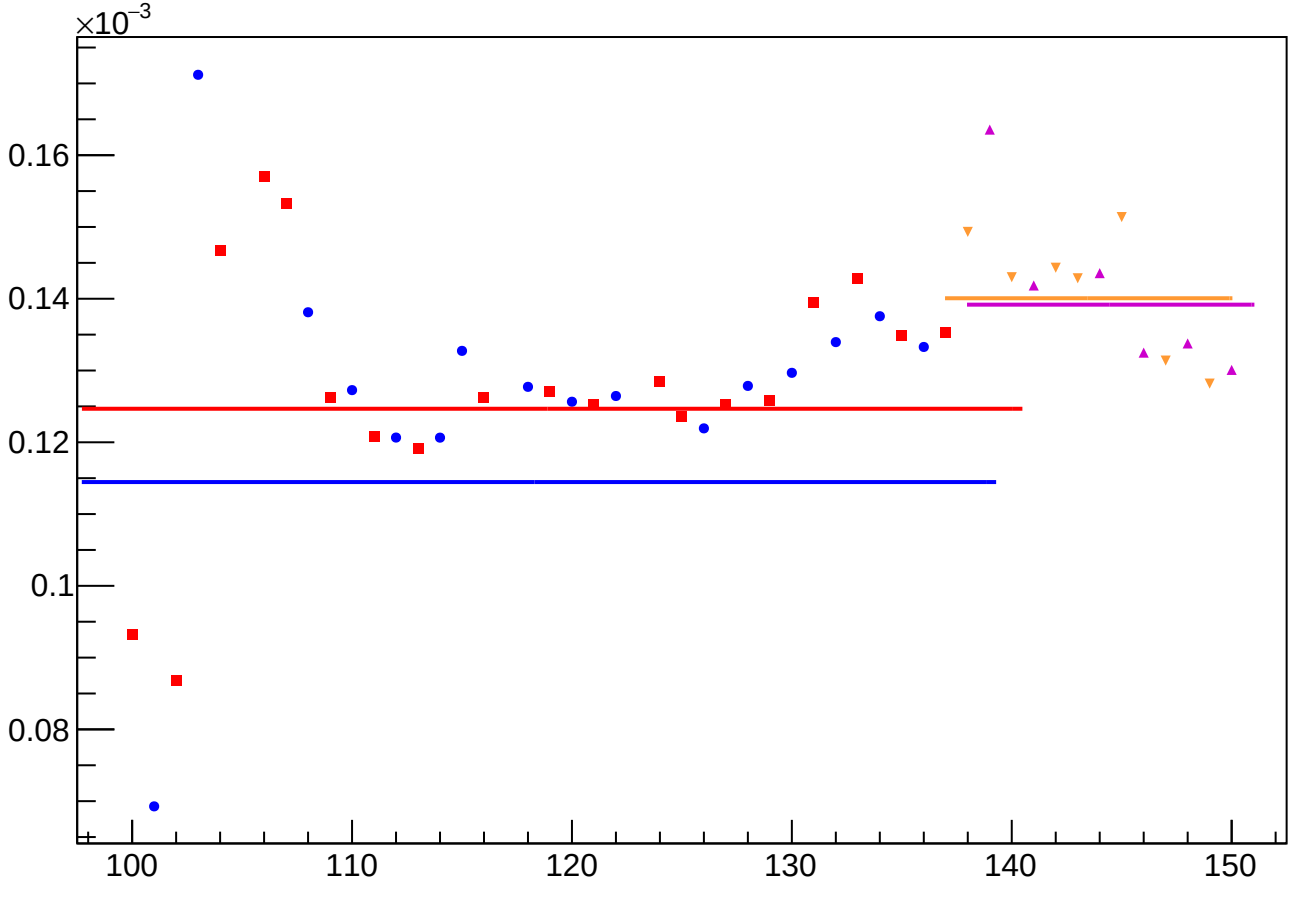
Right: 0.032+/-0.000 $\chi^2$/NDF: 161037517780.6/34

In: 0.033+/-0.000 $\chi^2$/NDF:124012748726.2/21

Out: 0.037+/-0.000 $\chi^2$/NDF:51027797037.6/25

All: 0.035+/-0.000 $\chi^2$/NDF: 179092141729.2

# yield_atr1_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 853142.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37706.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 260393.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:54576.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 92491.8/12

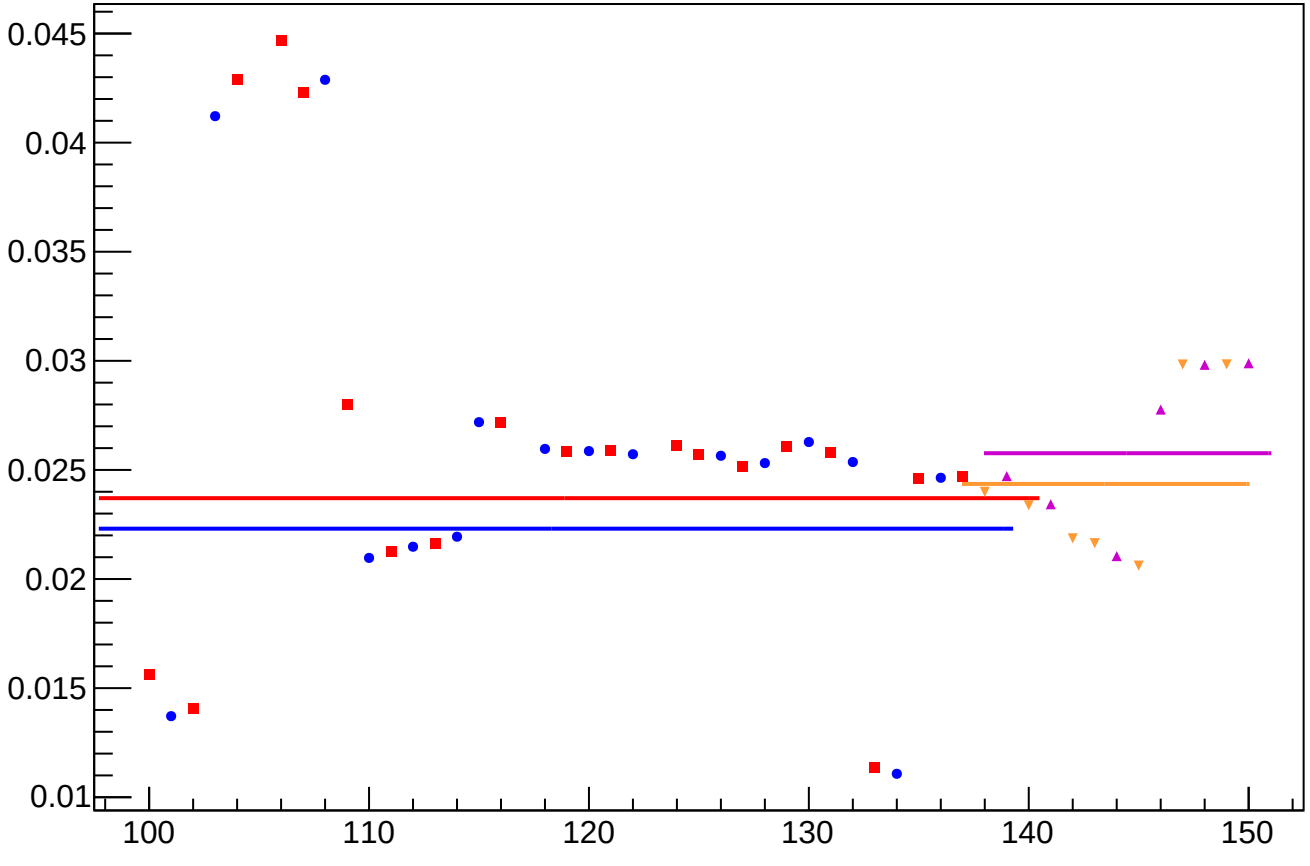
Right: 0.000+/-0.000 $\chi^2$/NDF: 1163063.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1118368.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:376146.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 1535905.5/47

# yield_atr2_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.000 $\chi^2$/NDF: 5012486114.6/15

Left Out: 0.024+/-0.000 $\chi^2$/NDF:1032121136.3/6

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 5581865088.7/18

Left In: 0.026+/-0.000 $\chi^2$/NDF:895009043.8/5

Left: 0.025+/-0.000 $\chi^2$/NDF: 1999182578.0/12

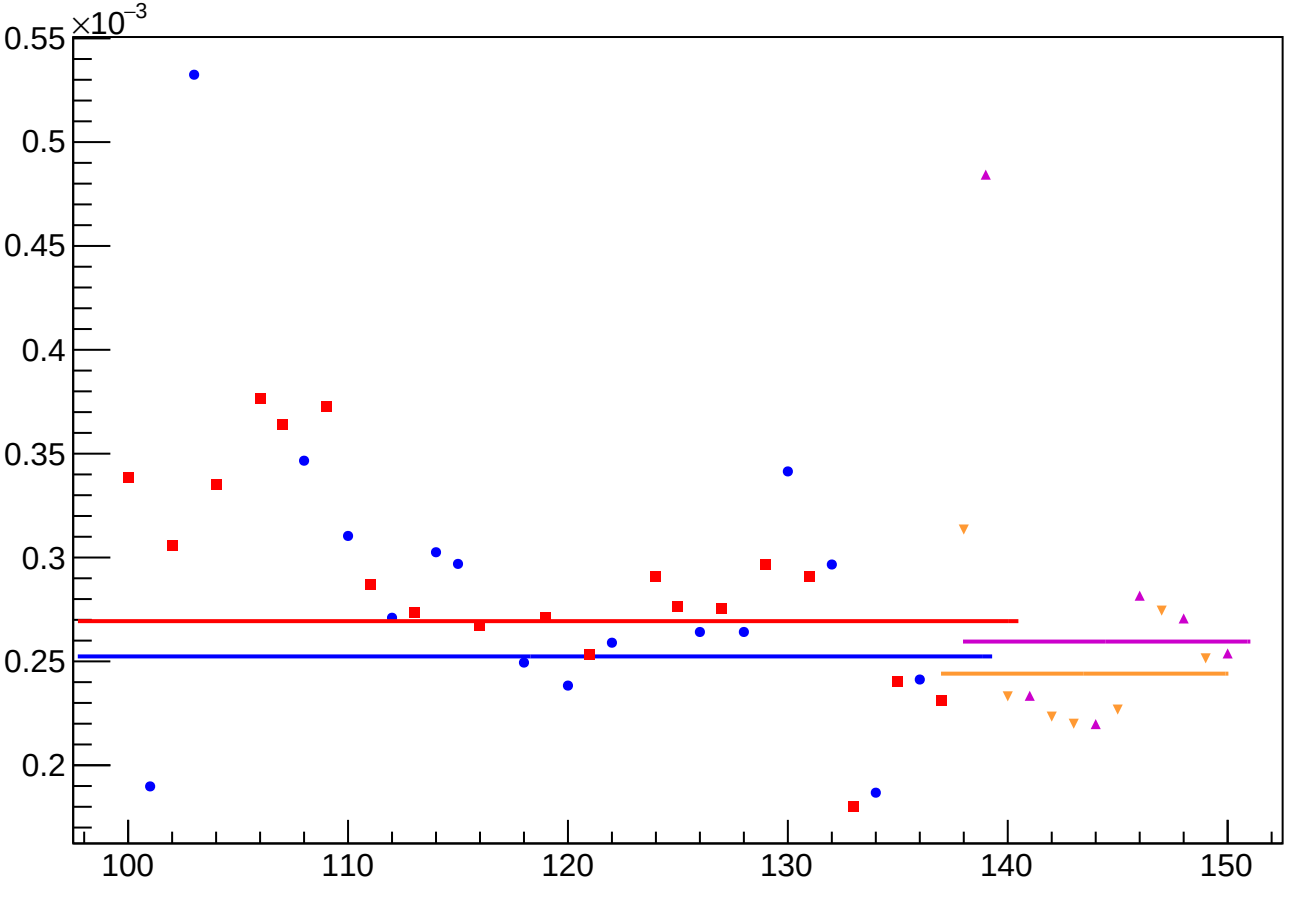
Right: 0.023+/-0.000 $\chi^2$/NDF: 10685664717.3/34

In: 0.024+/-0.000 $\chi^2$/NDF:6390326324.6/21

Out: 0.024+/-0.000 $\chi^2$/NDF:6631613920.6/25

All: 0.024+/-0.000 $\chi^2$/NDF: 13028396654.2/4

# yield_atr2_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 707863.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:120582.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 446359.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:436108.2/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 574031.1/12

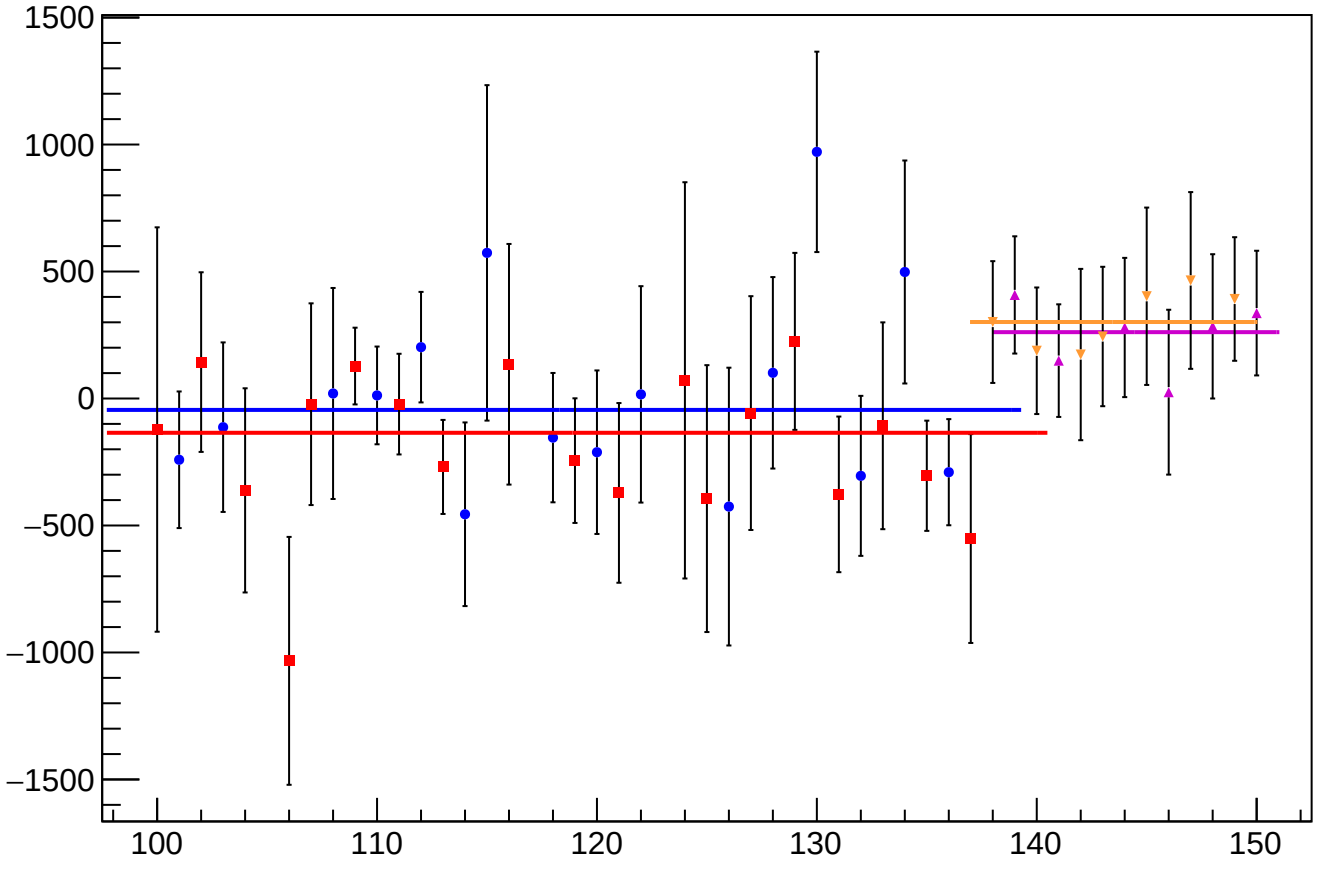
Right: 0.000+/-0.000 $\chi^2$/NDF: 1181187.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1148102.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:619875.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 1768862.1/47

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 301.223+/-106.045 $\chi^2$/NDF:0.8/6

Right Out: -134.996+/-68.062 $\chi^2$/NDF: 12.9/18

Left In: 261.242+/-104.884 $\chi^2$/NDF:1.3/5

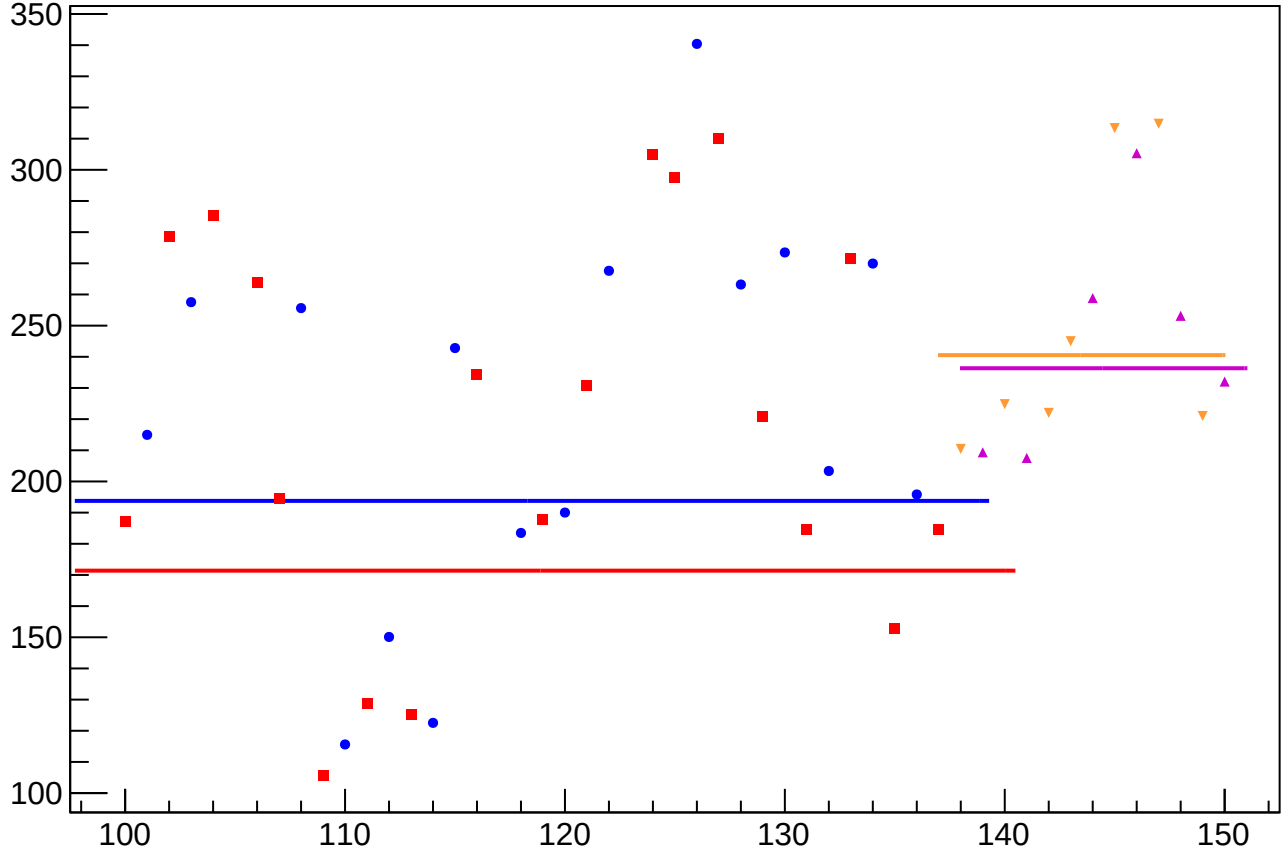
Left: 281.012+/-74.571 $\chi^2$/NDF: 2.2/12

Right: -95.021+/-50.761 $\chi^2$/NDF: 29.2/34

In: 60.850+/-61.647 $\chi^2$/NDF:22.3/21

Out: -7.728+/-57.279 $\chi^2$/NDF:25.7/25

All: 24.046+/-41.962 $\chi^2$/NDF: 48.8/47




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 240.539+/-0.075 $\chi^2$/NDF:237015.3/6

Right Out: 171.382+/-0.048 $\chi^2$/NDF: 1658079.5/18

Left In: 236.333+/-0.074 $\chi^2$/NDF:172534.4/5

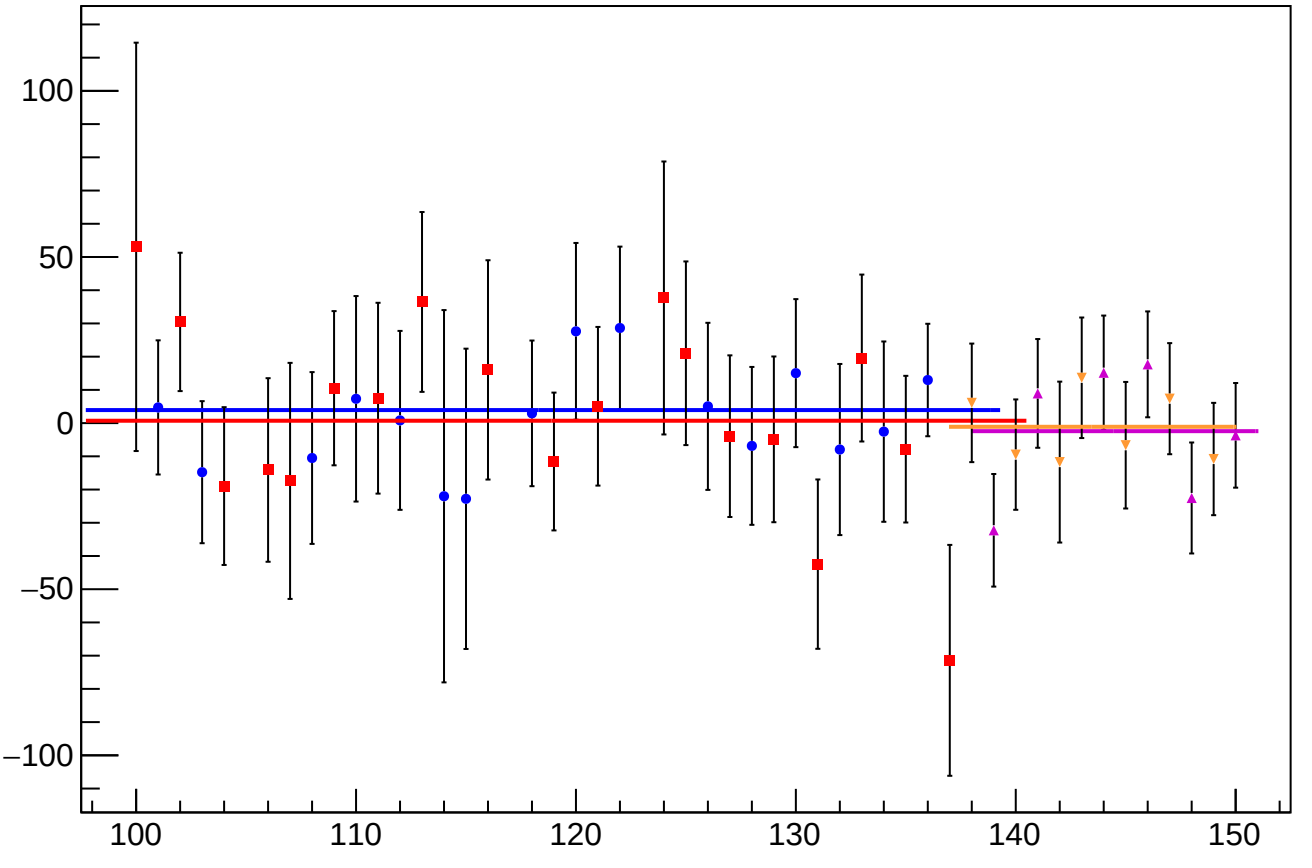
Left: 238.413+/-0.053 $\chi^2$/NDF: 411139.8/12

Right: 181.316+/-0.036 $\chi^2$/NDF: 2802189.0/34

In: 208.473+/-0.044 $\chi^2$/NDF:1436238.4/21

Out: 191.559+/-0.041 $\chi^2$/NDF:2497530.1/25

All: 199.395+/-0.030 $\chi^2$/NDF: 4014569.3/47




Right In: 3.923+/-6.172 $\chi^2$/NDF: 4.5/15

Left Out: -1.107+/-6.845 $\chi^2$/NDF:1.9/6

Right Out: 0.714+/-6.077 $\chi^2$/NDF: 15.9/18

Left In: -2.425+/-6.719 $\chi^2$/NDF:7.7/5

Left: -1.778+/-4.795 $\chi^2$/NDF: 9.6/12

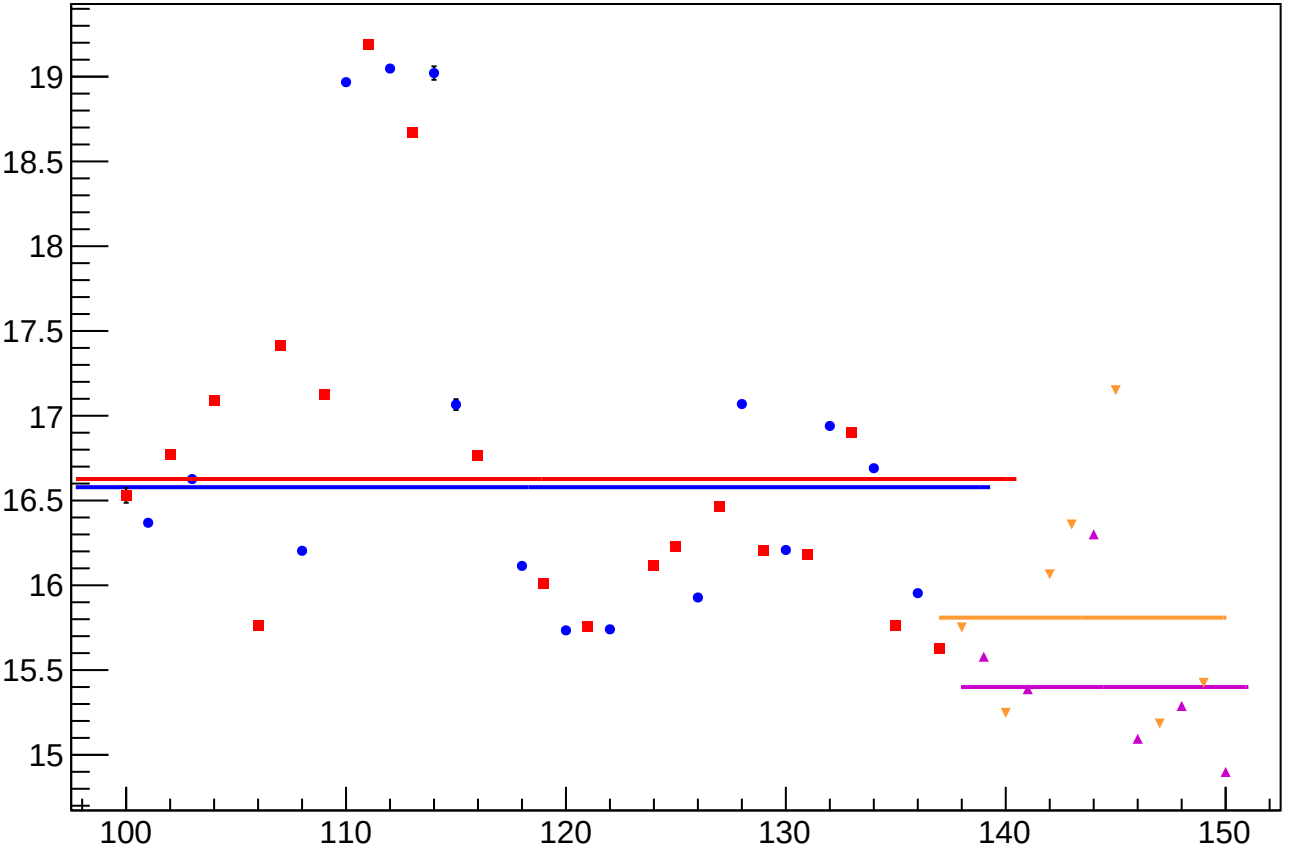
Right: 2.294+/-4.330 $\chi^2$/NDF: 20.5/34

In: 1.018+/-4.545 $\chi^2$/NDF:12.7/21

Out: -0.089+/-4.544 $\chi^2$/NDF:17.9/25

All: 0.465+/-3.214 $\chi^2$/NDF: 30.6/47

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.579+/-0.004 $\chi^2$/NDF: 44575.6/15

Left Out: 15.809+/-0.005 $\chi^2$/NDF:18102.4/6

Right Out: 16.627+/-0.004 $\chi^2$/NDF: 43461.8/18

Left In: 15.400+/-0.005 $\chi^2$/NDF:8548.4/5

Left: 15.601+/-0.003 $\chi^2$/NDF: 30292.5/12

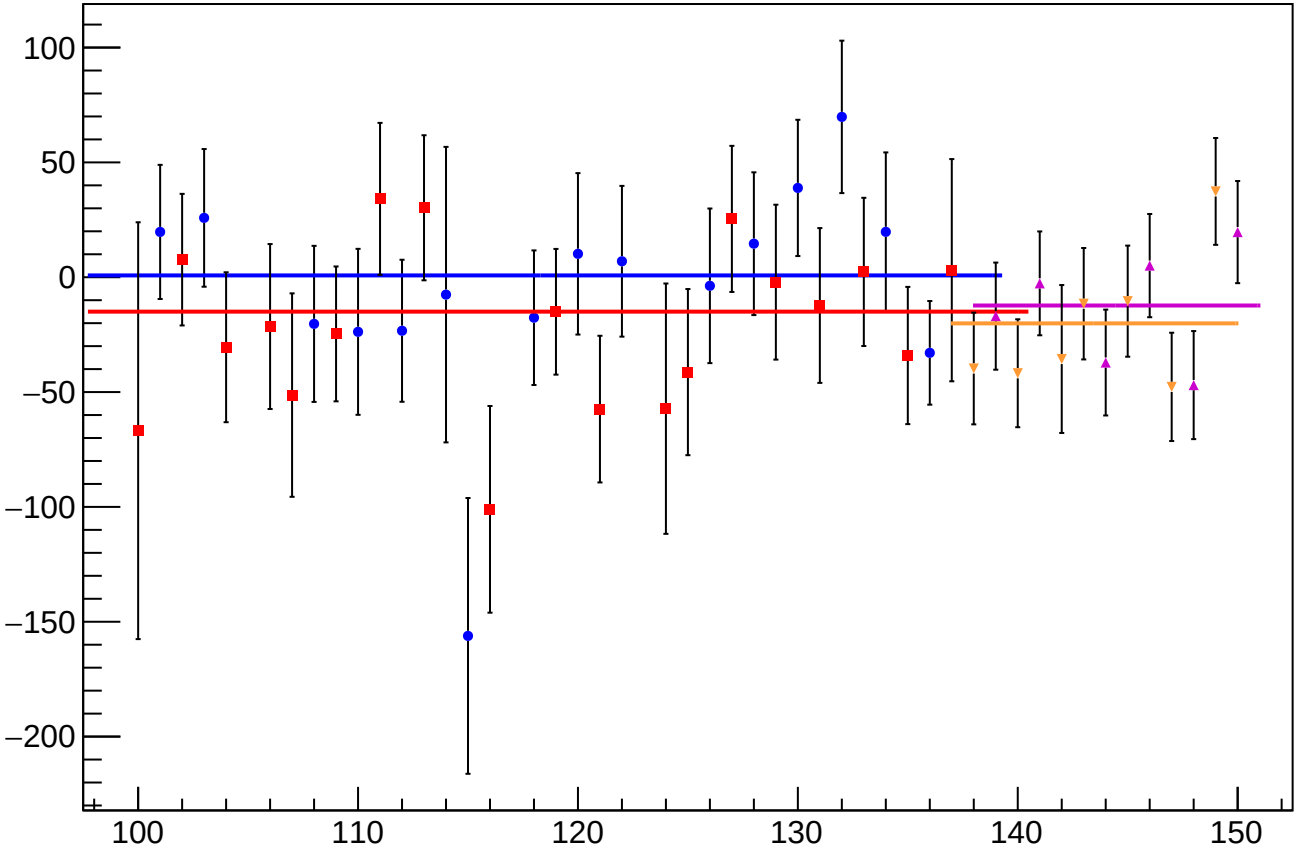
Right: 16.603+/-0.003 $\chi^2$/NDF: 88099.6/34

In: 16.039+/-0.003 $\chi^2$/NDF:86499.9/21

Out: 16.267+/-0.003 $\chi^2$/NDF:77520.3/25

All: 16.153+/-0.002 $\chi^2$/NDF: 166520.7/47

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 0.790+/-8.125 $\chi^2$/NDF: 18.7/15

Left Out: -20.089+/-9.316 $\chi^2$/NDF:9.5/6

Right Out: -14.981+/-7.953 $\chi^2$/NDF: 15.4/18

Left In: -12.311+/-9.329 $\chi^2$/NDF:6.2/5

Left: -16.206+/-6.592 $\chi^2$/NDF: 16.1/12

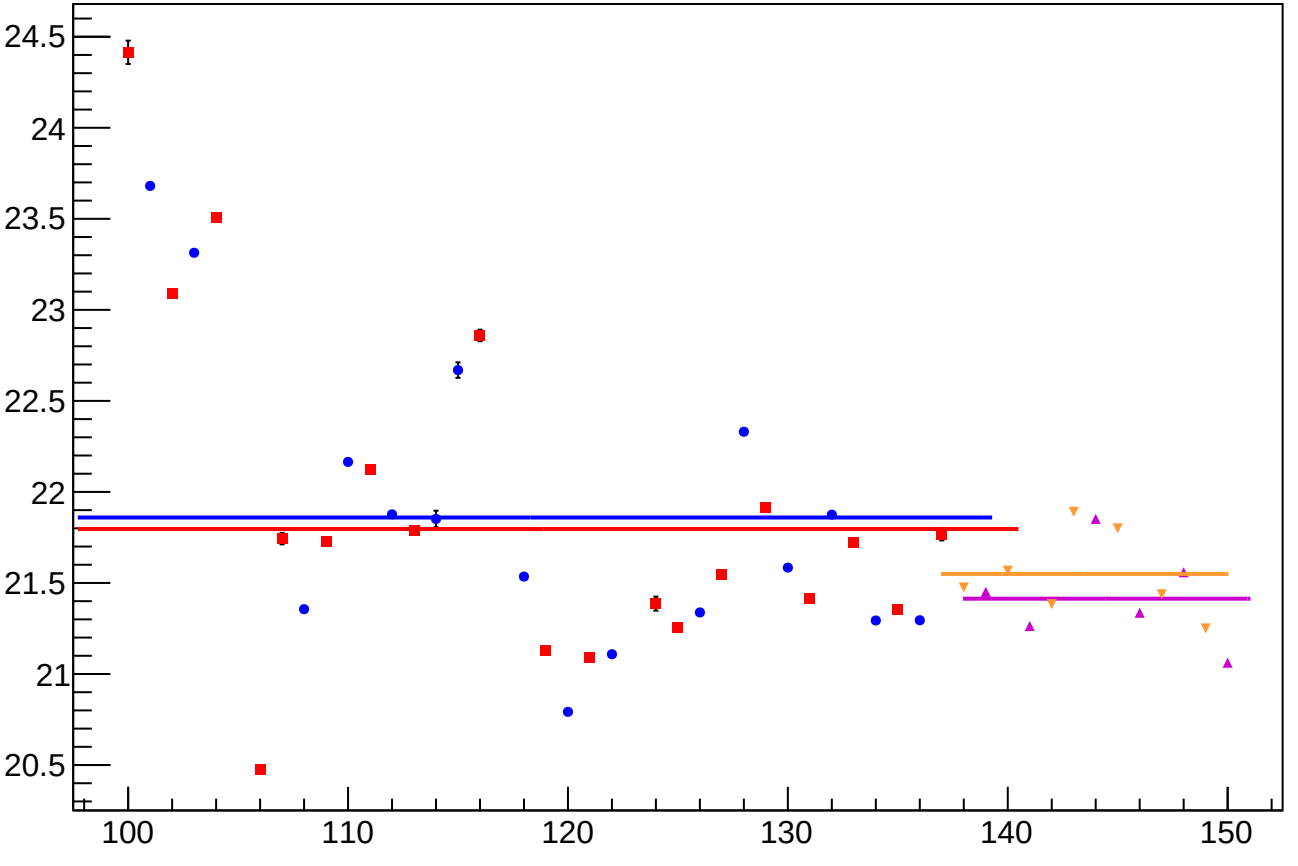
Right: -7.264+/-5.683 $\chi^2$/NDF: 36.0/34

In: -4.861+/-6.127 $\chi^2$/NDF:26.0/21

Out: -17.135+/-6.049 $\chi^2$/NDF:25.1/25

All: -11.077+/-4.304 $\chi^2$/NDF: 53.1/47

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.860+/-0.006 $\chi^2$/NDF: 19468.1/15

Left Out: 21.549+/-0.007 $\chi^2$/NDF:1059.5/6

Right Out: 21.796+/-0.006 $\chi^2$/NDF: 18861.3/18

Left In: 21.414+/-0.007 $\chi^2$/NDF:1417.2/5

Left: 21.482+/-0.005 $\chi^2$/NDF: 2689.0/12

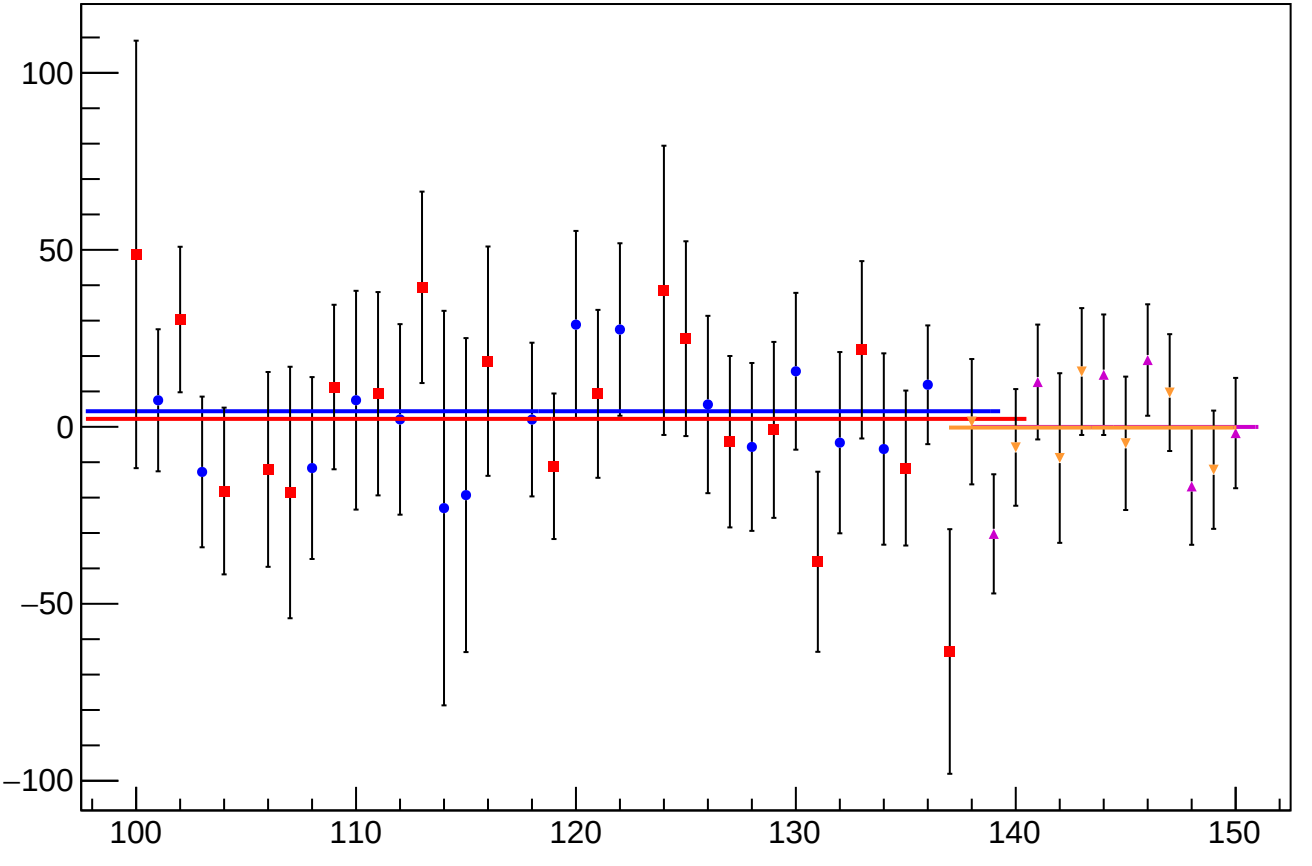
Right: 21.827+/-0.004 $\chi^2$/NDF: 38391.5/34

In: 21.667+/-0.004 $\chi^2$/NDF:23483.7/21

Out: 21.692+/-0.004 $\chi^2$/NDF:20732.5/25

All: 21.680+/-0.003 $\chi^2$/NDF: 44233.0/47

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 4.404+/-6.137 $\chi^2$/NDF: 4.3/15

Left Out: -0.211+/-6.774 $\chi^2$/NDF:2.0/6

Right Out: 2.244+/-6.042 $\chi^2$/NDF: 15.4/18

Left In: -0.032+/-6.652 $\chi^2$/NDF:7.1/5

Left: -0.120+/-4.746 $\chi^2$/NDF: 9.0/12

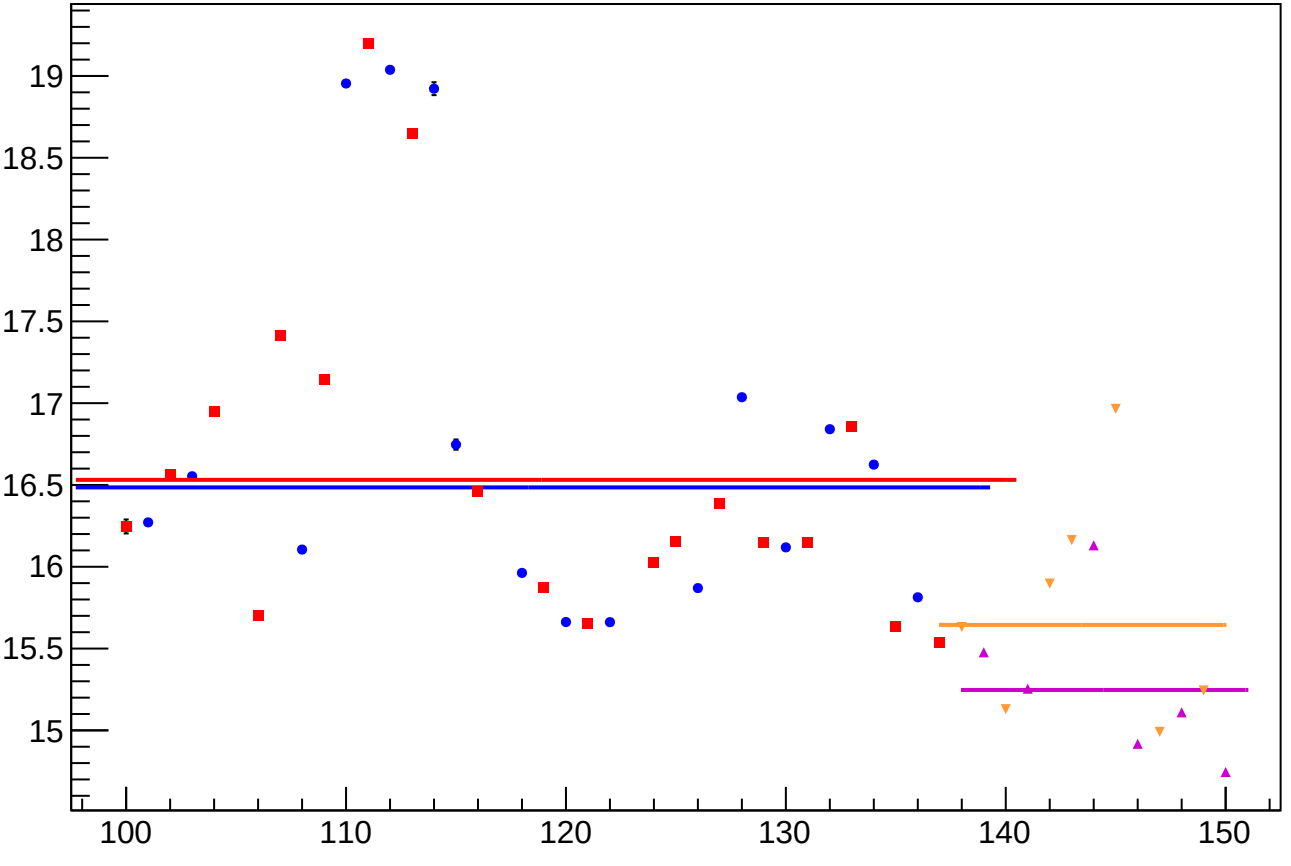
Right: 3.307+/-4.306 $\chi^2$/NDF: 19.7/34

In: 2.364+/-4.511 $\chi^2$/NDF:11.6/21

Out: 1.156+/-4.509 $\chi^2$/NDF:17.4/25

All: 1.760+/-3.189 $\chi^2$/NDF: 29.0/47

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.485+/-0.004 $\chi^2$/NDF: 47186.1/15

Left Out: 15.645+/-0.005 $\chi^2$/NDF:17957.3/6

Right Out: 16.531+/-0.004 $\chi^2$/NDF: 46474.0/18

Left In: 15.247+/-0.005 $\chi^2$/NDF:8849.6/5

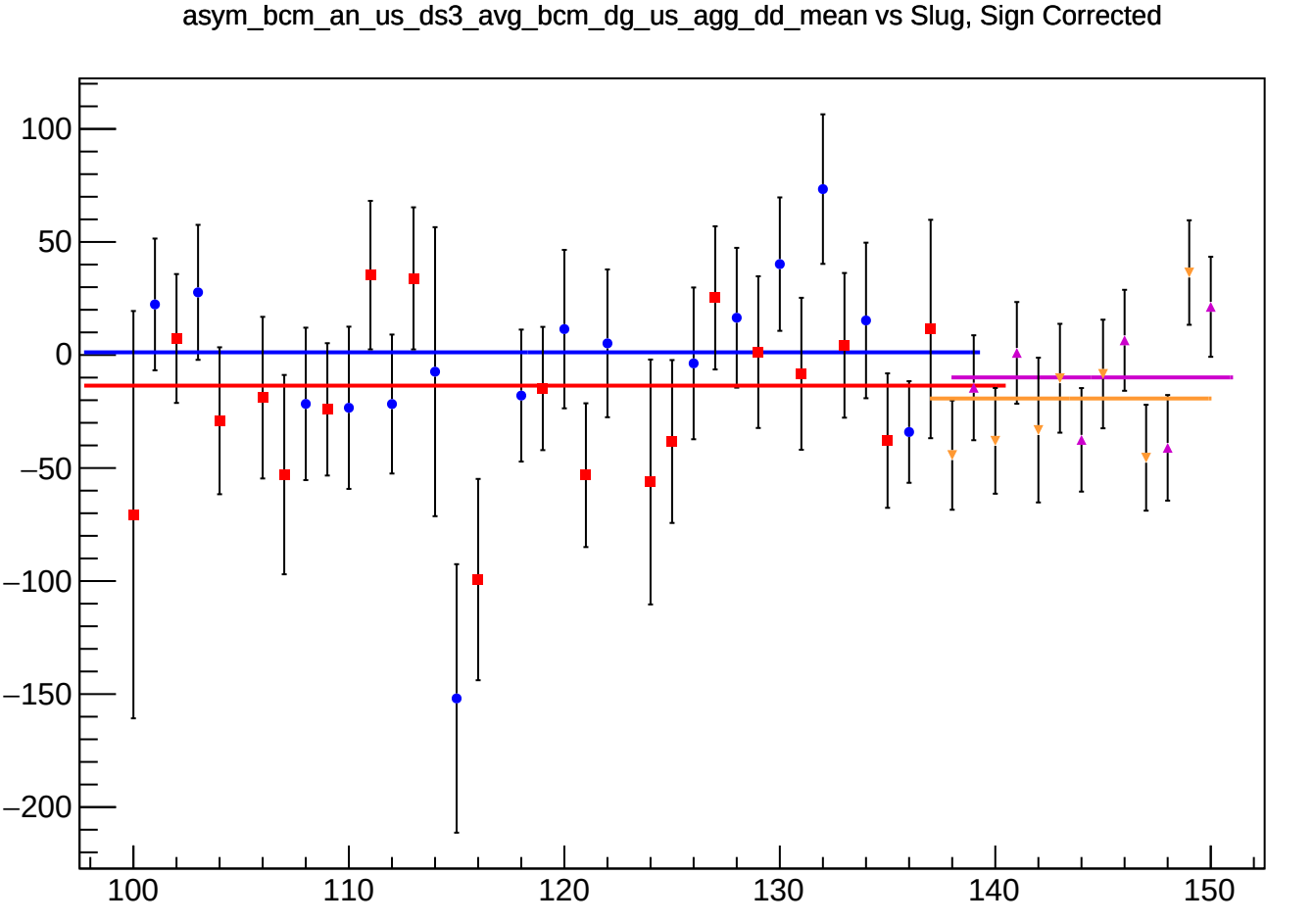
Left: 15.442+/-0.003 $\chi^2$/NDF: 30317.1/12

Right: 16.509+/-0.003 $\chi^2$/NDF: 93717.6/34

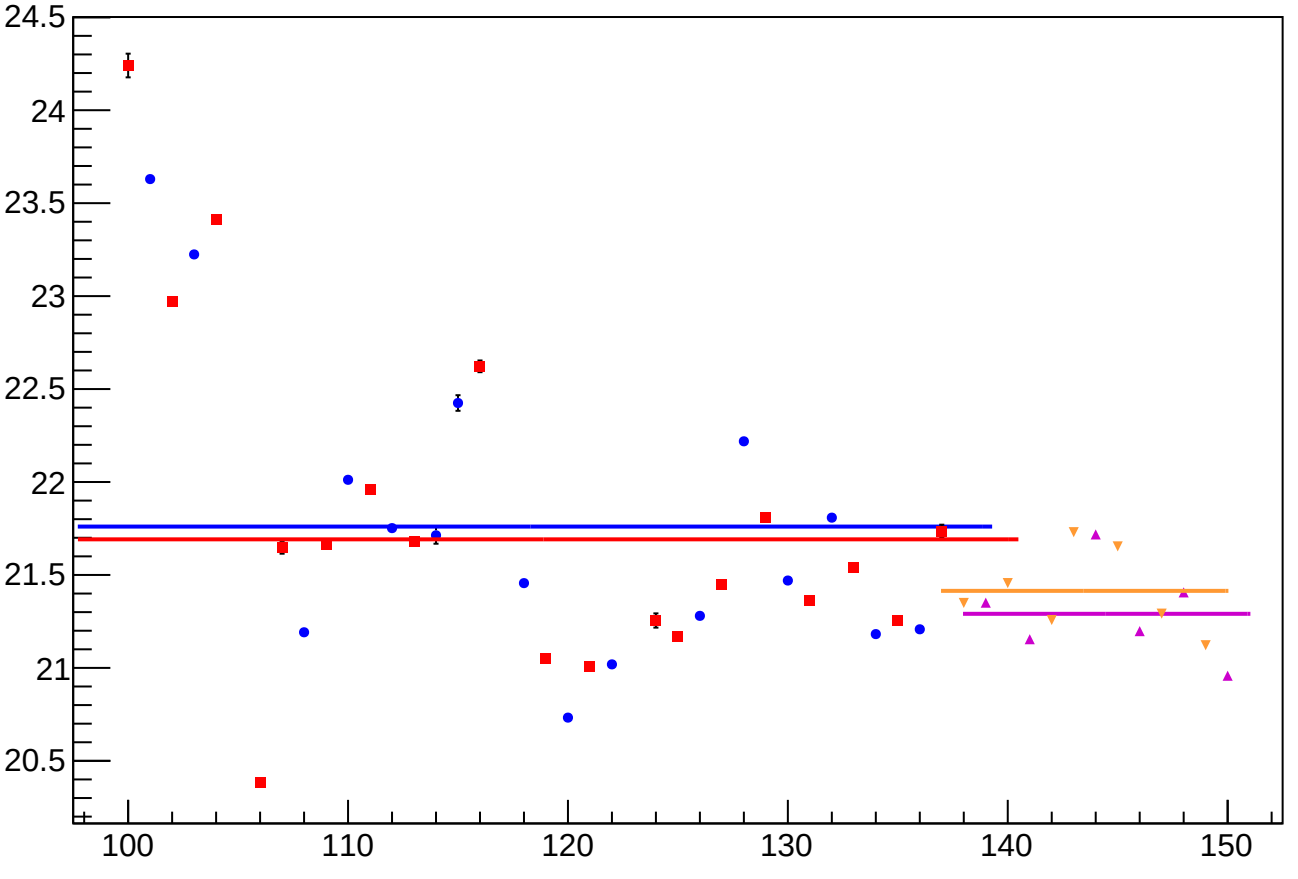
In: 15.916+/-0.003 $\chi^2$/NDF:93464.1/21

Out: 16.138+/-0.003 $\chi^2$/NDF:83513.3/25

All: 16.027+/-0.002 $\chi^2$/NDF: 179413.2/47


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected
100
50
0
−50
−100
−150
−200
100
110
120
130
140
150
Right In: 1.185+/-8.088 χ²/NDF: 19.4/15
Left Out: -19.246+/-9.257 χ²/NDF:9.3/6
Right Out: -13.549+/-7.915 χ²/NDF: 15.9/18
Left In: -9.918+/-9.275 χ²/NDF:6.0/5
Left: -14.592+/-6.552 χ²/NDF: 15.9/12
Right: -6.341+/-5.657 χ²/NDF: 37.0/34
In: -3.611+/-6.096 χ²/NDF:26.3/21
Out: -15.955+/-6.016 χ²/NDF:25.5/25
All: -9.865+/-4.282 χ²/NDF: 53.8/47

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.760+/-0.006 $\chi^2$/NDF: 19745.7/15

Left Out: 21.414+/-0.007 $\chi^2$/NDF:985.6/6

Right Out: 21.692+/-0.006 $\chi^2$/NDF: 18330.7/18

Left In: 21.291+/-0.007 $\chi^2$/NDF:1319.7/5

Left: 21.353+/-0.005 $\chi^2$/NDF: 2483.0/12

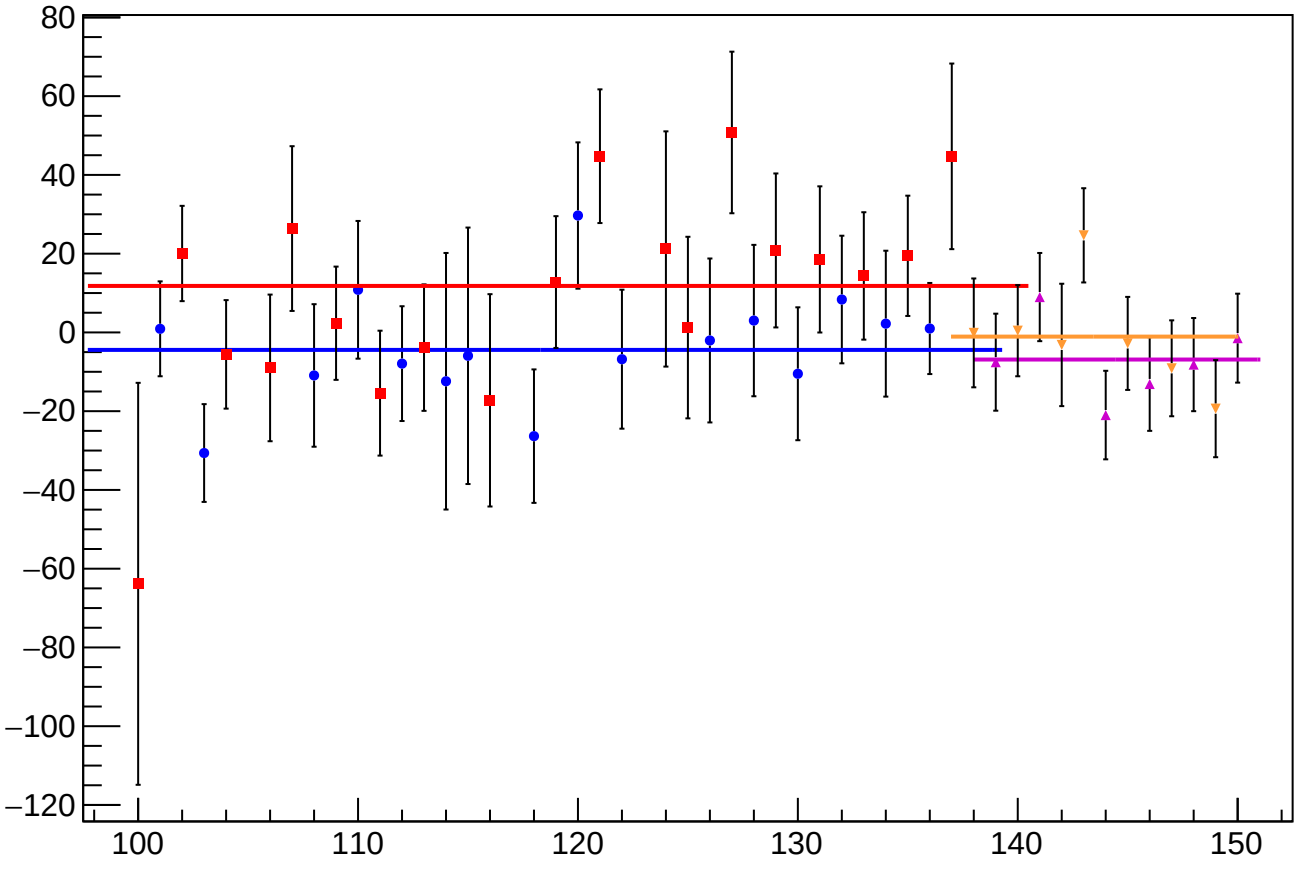
Right: 21.725+/-0.004 $\chi^2$/NDF: 38150.0/34

In: 21.558+/-0.004 $\chi^2$/NDF:23974.2/21

Out: 21.575+/-0.004 $\chi^2$/NDF:20351.9/25

All: 21.566+/-0.003 $\chi^2$/NDF: 44333.9/47

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: -1.063+/-4.751 $\chi^2$/NDF:7.3/6

Right Out: 11.807+/-4.097 $\chi^2$/NDF: 21.7/18

Left In: -6.885+/-4.739 $\chi^2$/NDF:4.1/5

Left: -3.981+/-3.355 $\chi^2$/NDF: 12.2/12

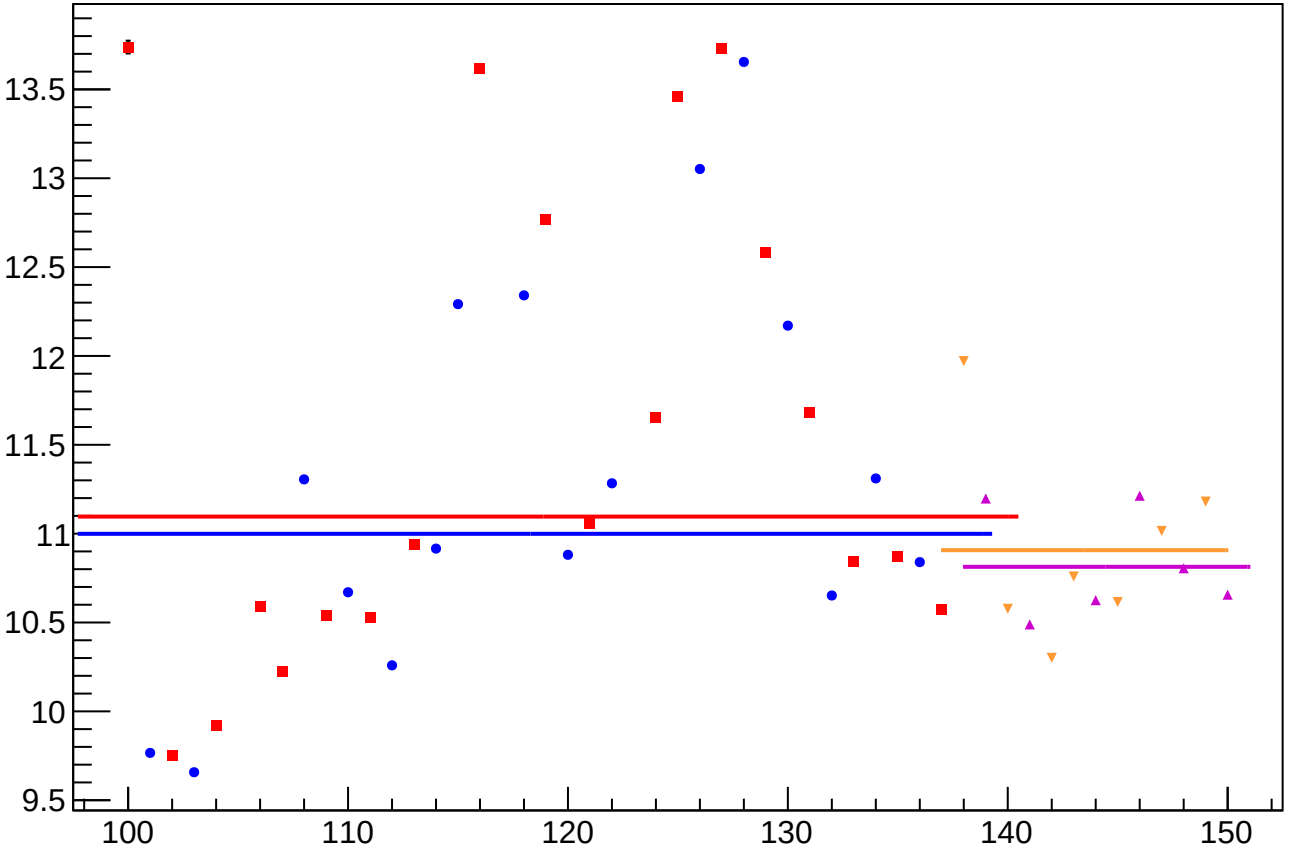
Right: 3.749+/-2.909 $\chi^2$/NDF: 41.5/34

In: -5.496+/-3.114 $\chi^2$/NDF:16.2/21

Out: 6.317+/-3.103 $\chi^2$/NDF:33.3/25

All: 0.432+/-2.198 $\chi^2$/NDF: 56.7/47

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 10.999+/-0.003 $\chi^2$/NDF: 136159.2/15

Left Out: 10.907+/-0.003 $\chi^2$/NDF:19182.3/6

Right Out: 11.096+/-0.003 $\chi^2$/NDF: 162908.7/18

Left In: 10.813+/-0.003 $\chi^2$/NDF:6825.3/5

Left: 10.860+/-0.002 $\chi^2$/NDF: 26396.4/12

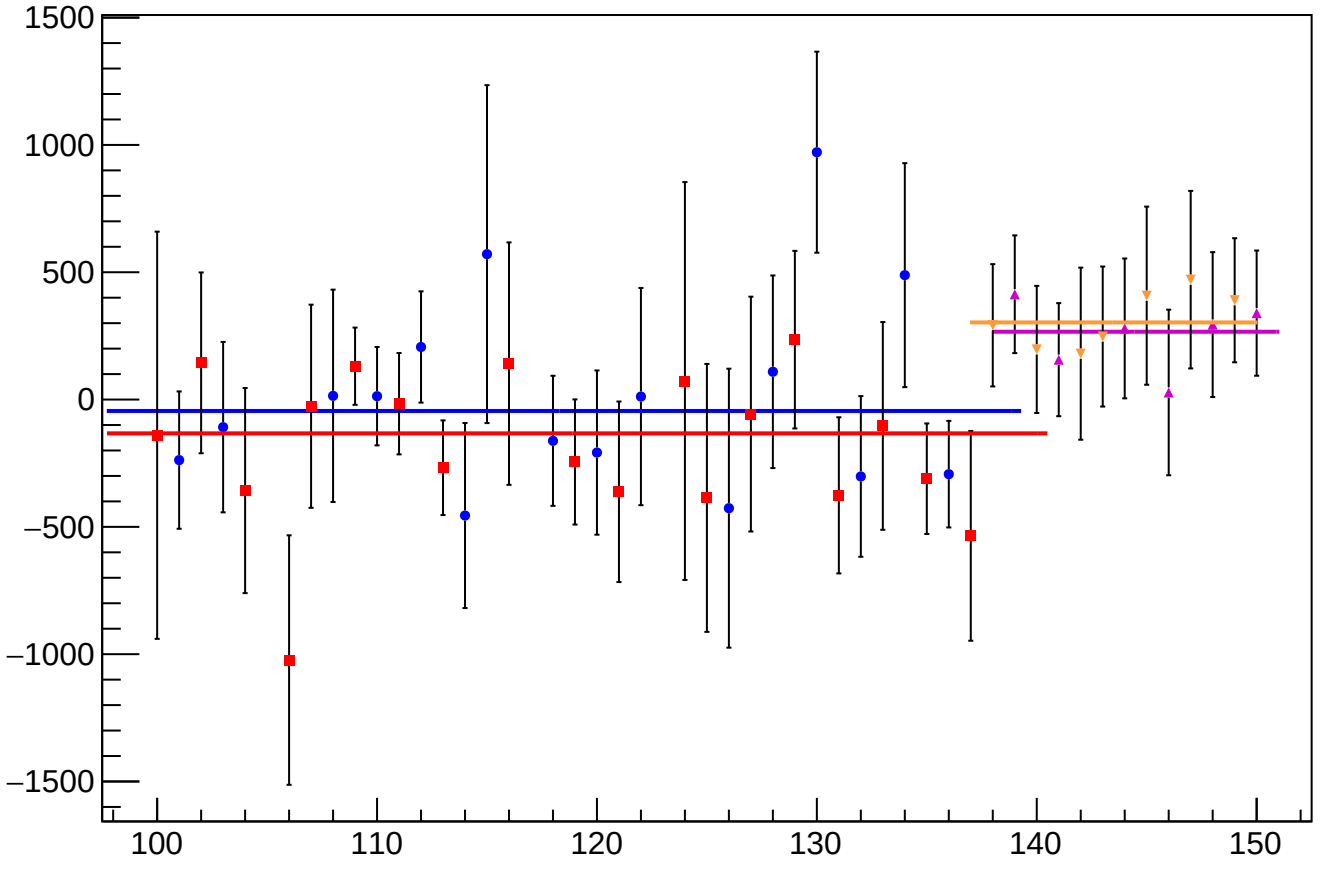
Right: 11.048+/-0.002 $\chi^2$/NDF: 299622.8/34

In: 10.919+/-0.002 $\chi^2$/NDF:144728.8/21

Out: 11.015+/-0.002 $\chi^2$/NDF:183906.5/25

All: 10.967+/-0.002 $\chi^2$/NDF: 329598.0/47

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 302.935+/-106.226 $\chi^2$/NDF:0.8/6

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 266.343+/-105.062 $\chi^2$/NDF:1.3/5

Left: 284.437+/-74.698 $\chi^2$/NDF: 2.2/12

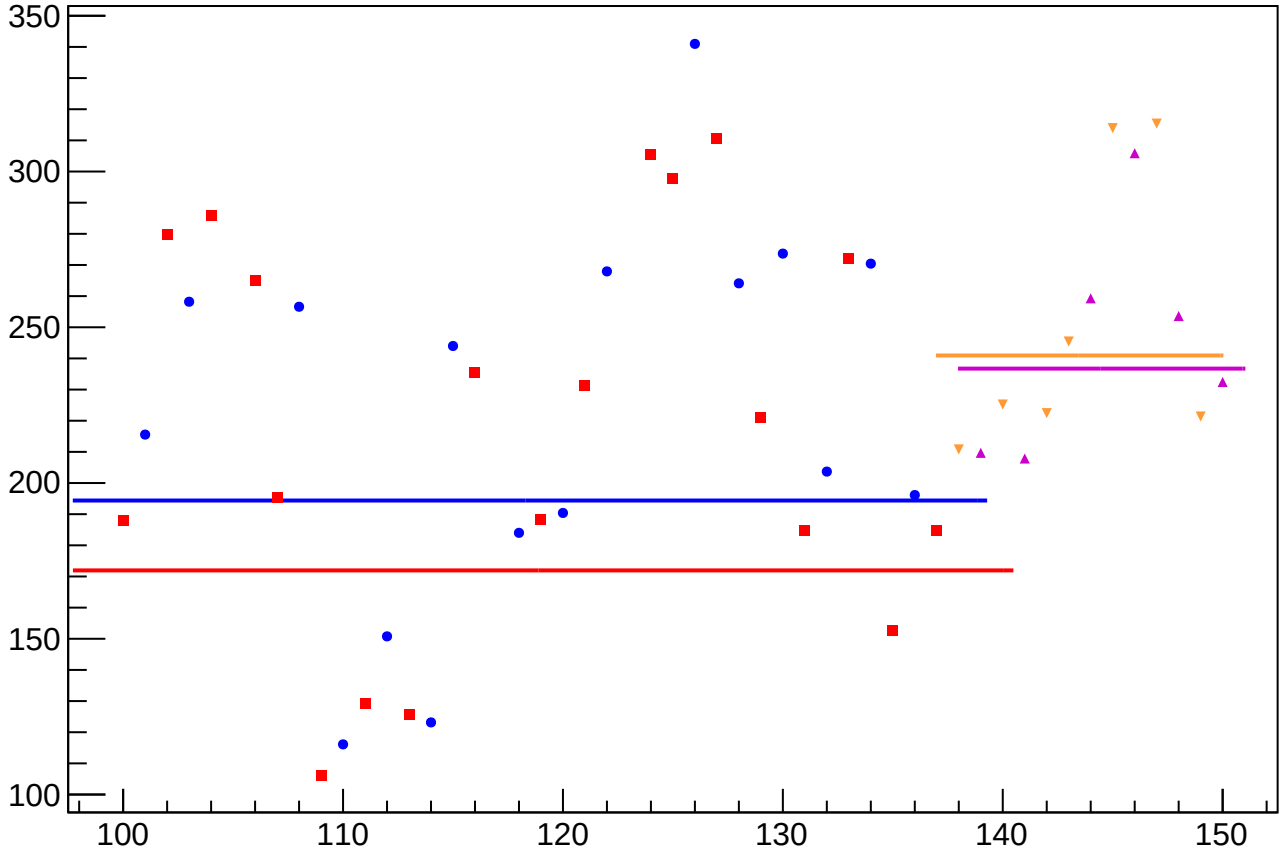
Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 62.868+/-61.802 $\chi^2$/NDF:22.4/21

Out: -5.382+/-57.431 $\chi^2$/NDF:25.6/25

All: 26.245+/-42.071 $\chi^2$/NDF: 48.7/47

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected




Right In: 194.385+/-0.054 $\chi^2$/NDF: 1042024.1/15

Left Out: 240.946+/-0.075 $\chi^2$/NDF:237241.1/6

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 236.730+/-0.074 $\chi^2$/NDF:172729.7/5

Left: 238.815+/-0.053 $\chi^2$/NDF: 411563.5/12

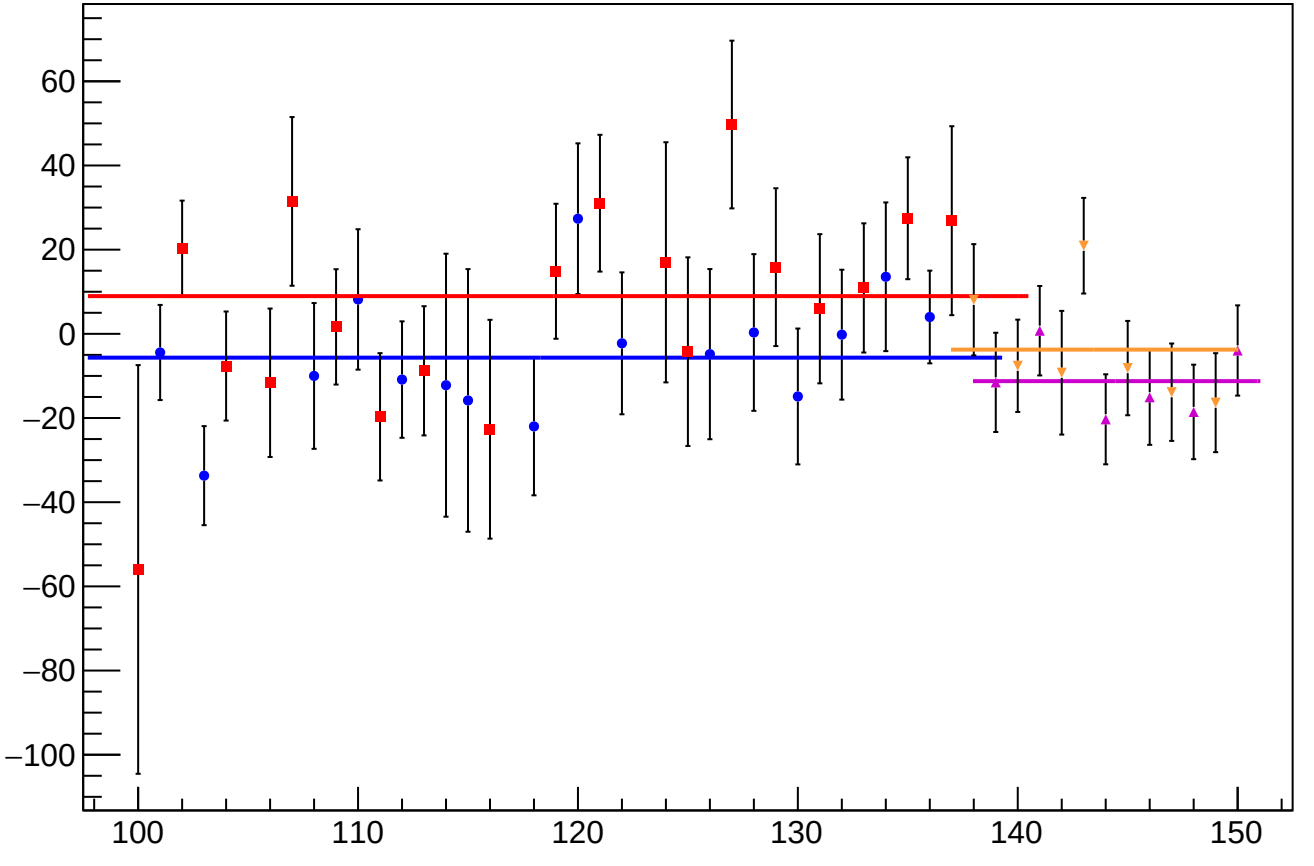
Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 209.038+/-0.044 $\chi^2$/NDF:1427223.5/21

Out: 192.117+/-0.041 $\chi^2$/NDF:2485729.0/25

All: 199.958+/-0.030 $\chi^2$/NDF: 3993400.1/47

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: -3.751+/-4.514 $\chi^2$/NDF:7.9/6

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -11.236+/-4.506 $\chi^2$/NDF:3.0/5

Left: -7.500+/-3.189 $\chi^2$/NDF: 12.2/12

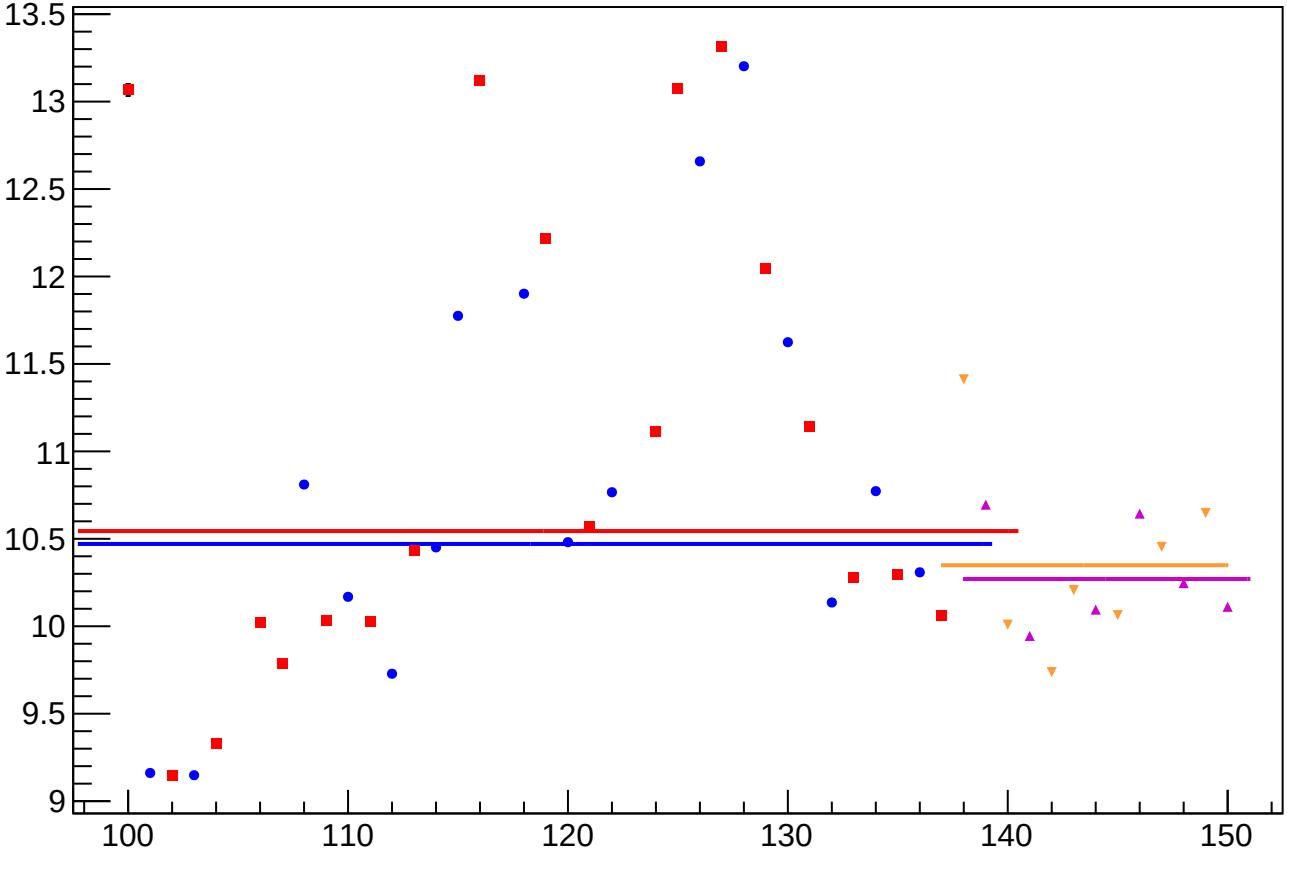
Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -8.074+/-2.966 $\chi^2$/NDF:17.5/21

Out: 3.525+/-2.951 $\chi^2$/NDF:35.2/25

All: -2.246+/-2.092 $\chi^2$/NDF: 60.4/47

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected




Right In: 10.471+/-0.003 $\chi^2$/NDF: 157365.8/15

Left Out: 10.349+/-0.003 $\chi^2$/NDF:21377.8/6

Right Out: 10.544+/-0.003 $\chi^2$/NDF: 186780.3/18

Left In: 10.270+/-0.003 $\chi^2$/NDF:7646.6/5

Left: 10.310+/-0.002 $\chi^2$/NDF: 29329.3/12

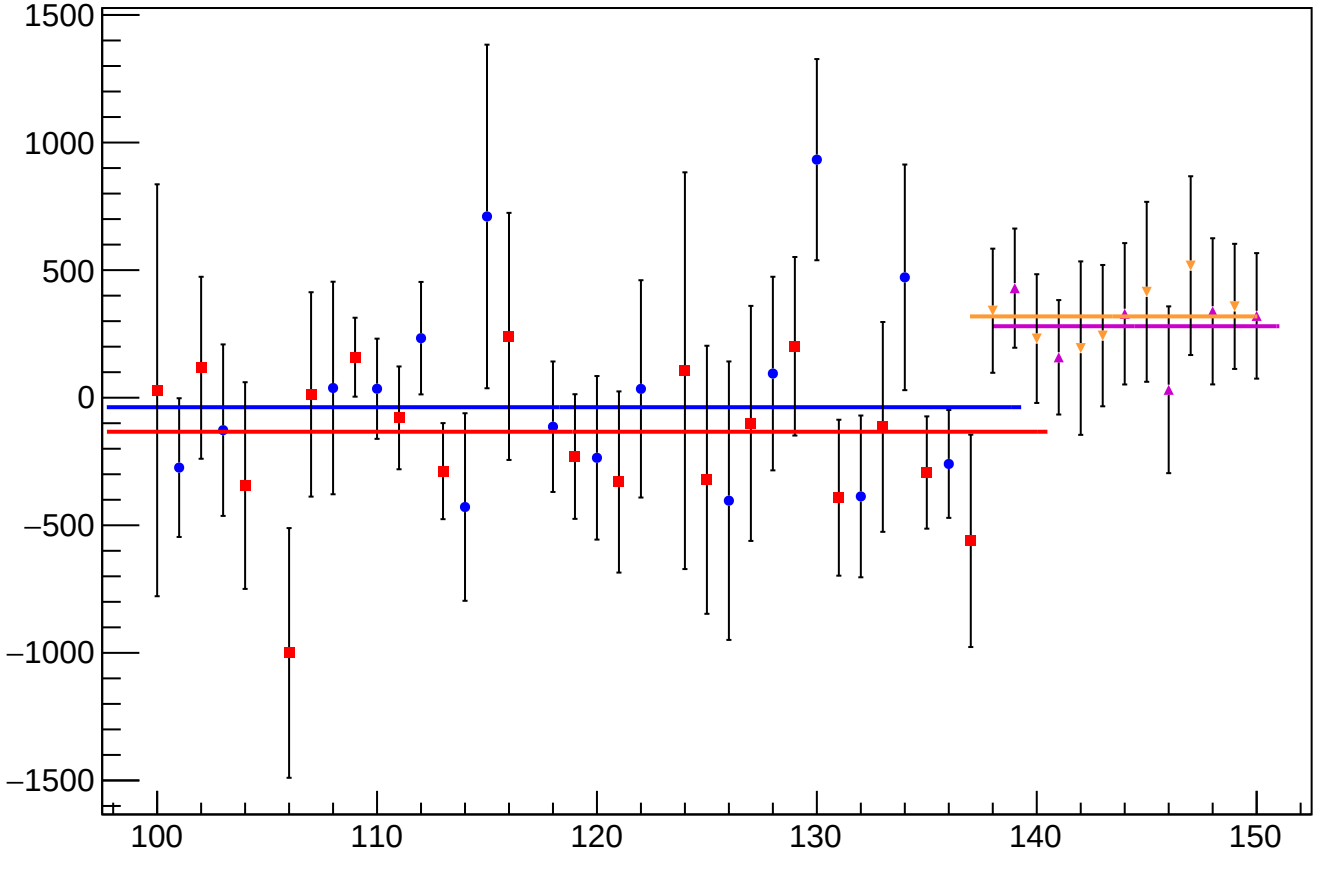
Right: 10.508+/-0.002 $\chi^2$/NDF: 344500.1/34

In: 10.384+/-0.002 $\chi^2$/NDF:167253.5/21

Out: 10.461+/-0.002 $\chi^2$/NDF:210303.0/25

All: 10.423+/-0.001 $\chi^2$/NDF: 378234.2/47

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 318.643+/-107.129 $\chi^2$/NDF:0.8/6

Right Out: -133.386+/-68.885 $\chi^2$/NDF: 12.9/18

Left In: 280.140+/-105.809 $\chi^2$/NDF:1.4/5

Left: 299.153+/-75.281 $\chi^2$/NDF: 2.2/12

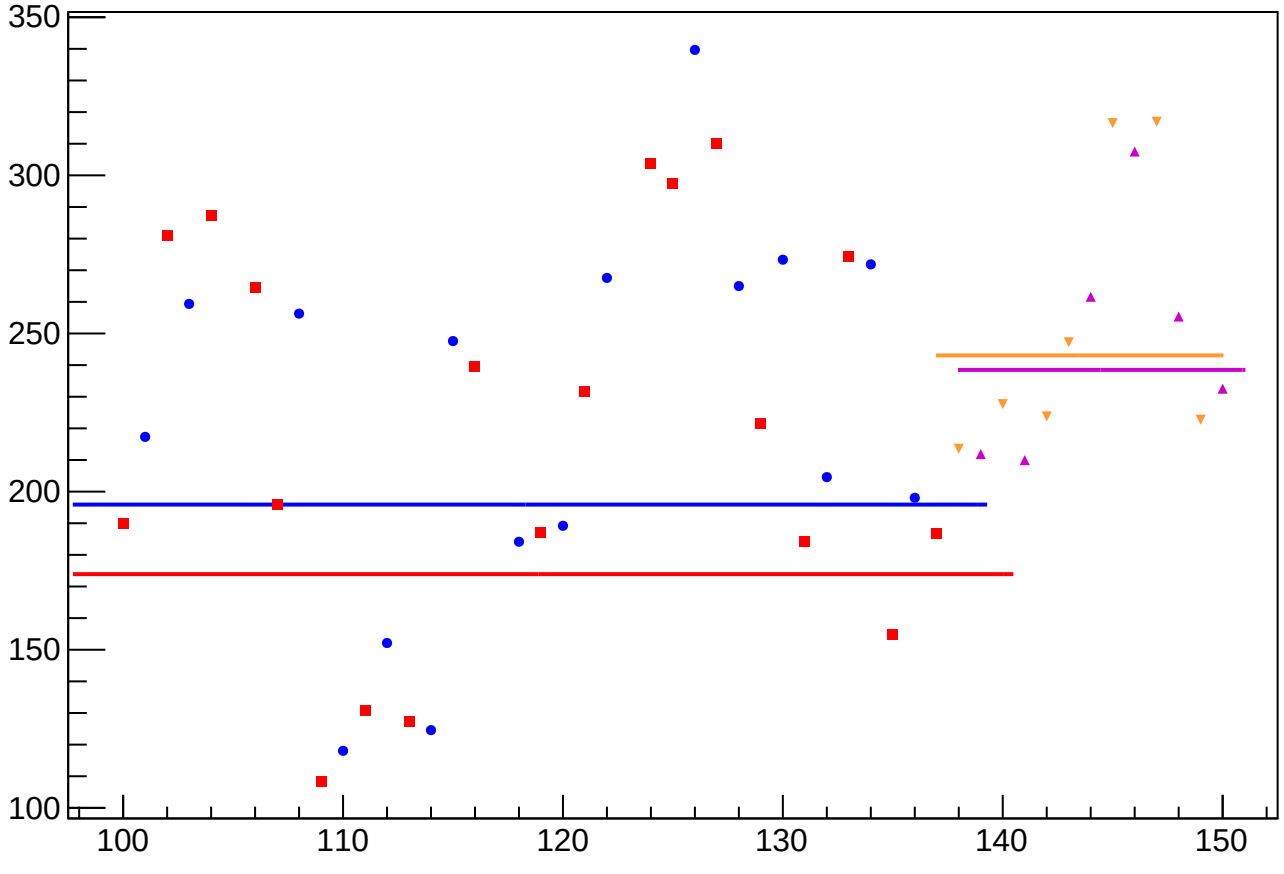
Right: -90.593+/-51.314 $\chi^2$/NDF: 29.4/34

In: 72.486+/-62.214 $\chi^2$/NDF:22.9/21

Out: -1.160+/-57.941 $\chi^2$/NDF:26.3/25

All: 33.047+/-42.401 $\chi^2$/NDF: 49.9/47

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 195.900+/-0.054 $\chi^2$/NDF: 1011012.3/15

Left Out: 243.066+/-0.076 $\chi^2$/NDF:233263.8/6

Right Out: 173.901+/-0.049 $\chi^2$/NDF: 1599608.1/18

Left In: 238.492+/-0.075 $\chi^2$/NDF:169648.3/5

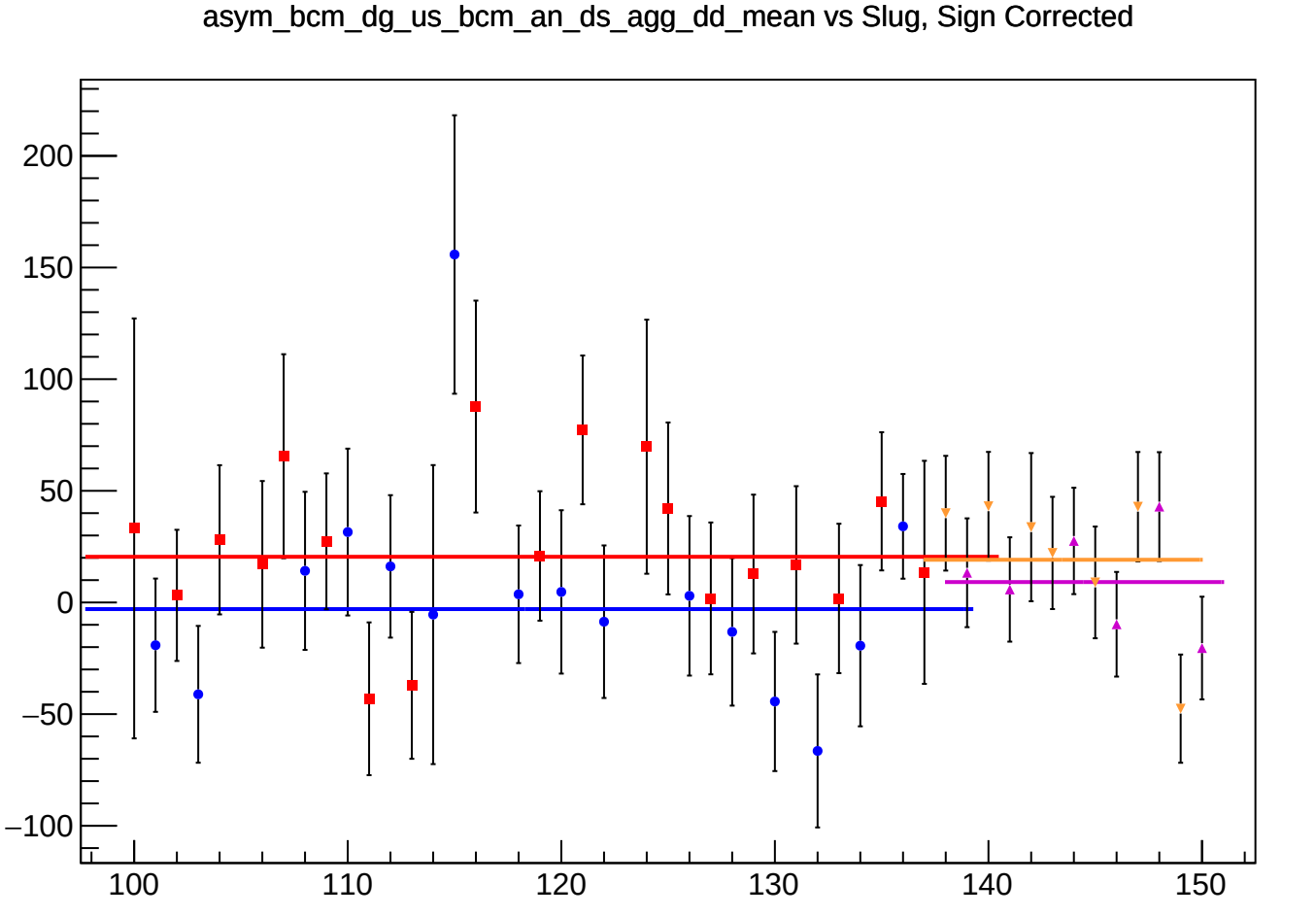
Left: 240.751+/-0.053 $\chi^2$/NDF: 404757.8/12

Right: 183.693+/-0.036 $\chi^2$/NDF: 2701402.5/34

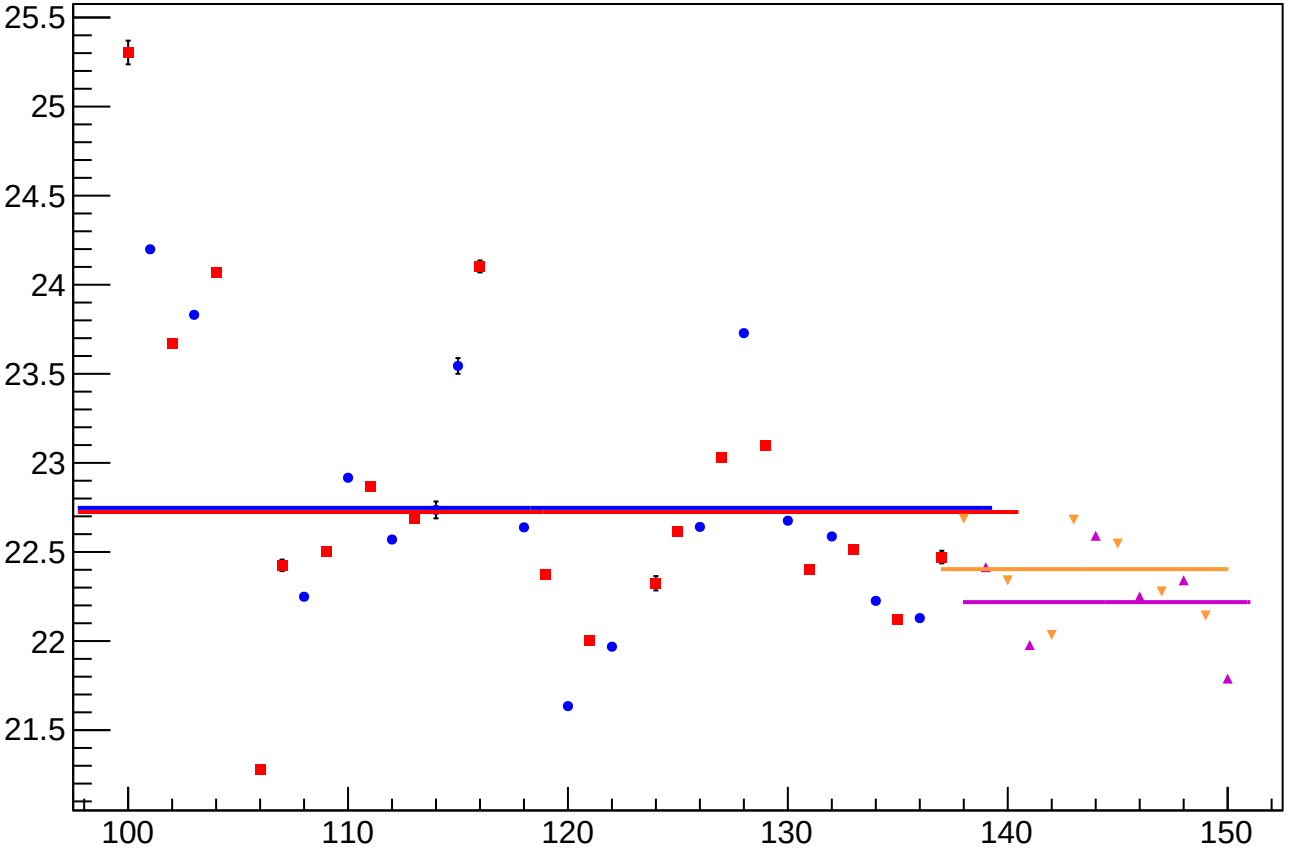
In: 210.625+/-0.044 $\chi^2$/NDF:1392694.9/21

Out: 194.133+/-0.041 $\chi^2$/NDF:2422663.0/25

All: 201.793+/-0.030 $\chi^2$/NDF: 3890615.9/47


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
−100
100
110
120
130
140
150
Right In: -2.967+/-8.454 χ²/NDF: 17.9/15
Left Out: 19.120+/-9.686 χ²/NDF:10.5/6
Right Out: 20.457+/-8.292 χ²/NDF: 15.3/18
Left In: 9.139+/-9.680 χ²/NDF:4.9/5
Left: 14.126+/-6.847 χ²/NDF: 15.9/12
Right: 8.972+/-5.920 χ²/NDF: 37.1/34
In: 2.271+/-6.368 χ²/NDF:23.7/21
Out: 19.891+/-6.299 χ²/NDF:25.8/25
All: 11.177+/-4.478 χ²/NDF: 53.4/47

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.747+/-0.006 $\chi^2$/NDF: 14622.8/15

Left Out: 22.404+/-0.007 $\chi^2$/NDF:1096.5/6

Right Out: 22.724+/-0.006 $\chi^2$/NDF: 14490.6/18

Left In: 22.219+/-0.007 $\chi^2$/NDF:1581.3/5

Left: 22.311+/-0.005 $\chi^2$/NDF: 3043.6/12

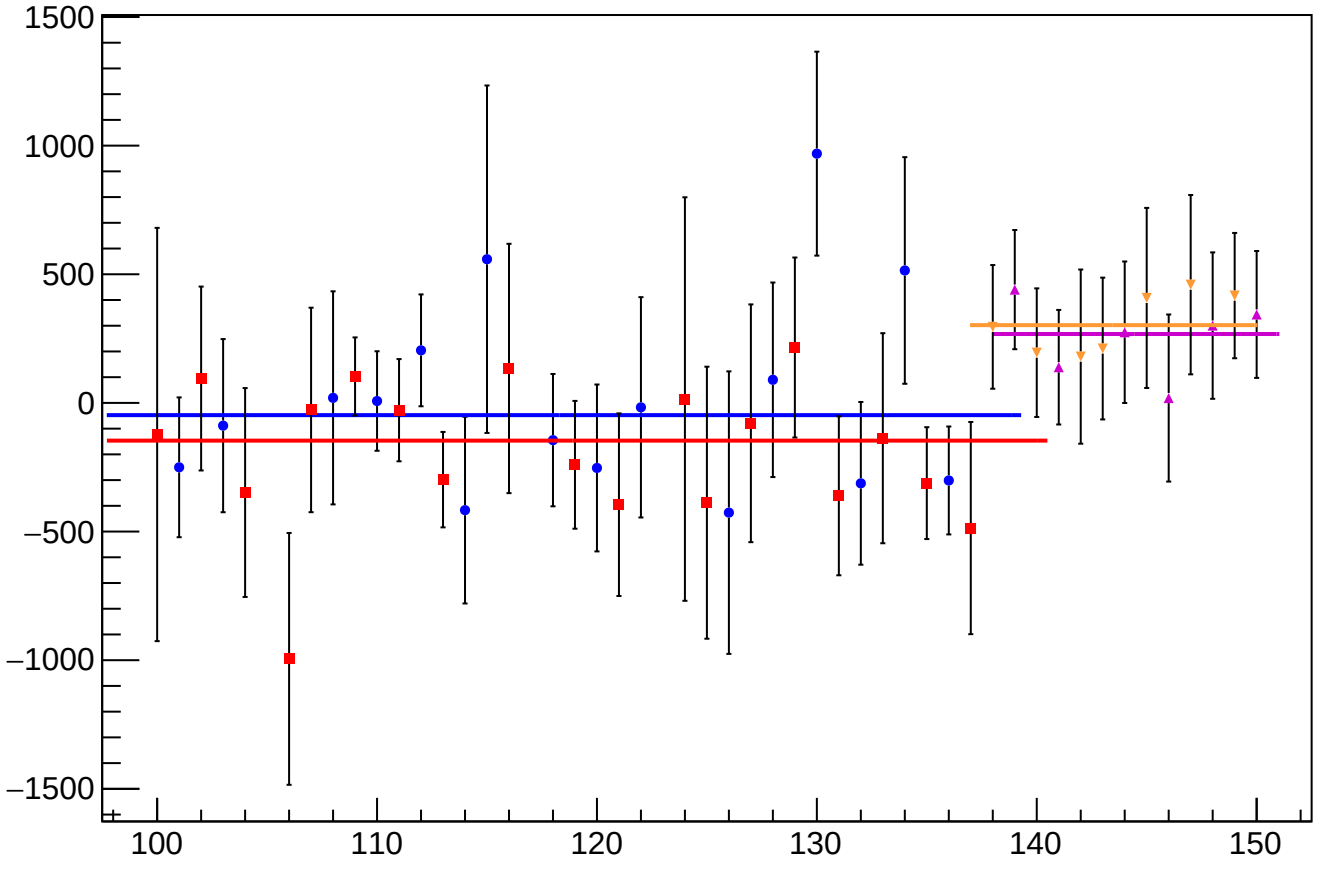
Right: 22.736+/-0.004 $\chi^2$/NDF: 29121.1/34

In: 22.519+/-0.005 $\chi^2$/NDF:19592.1/21

Out: 22.589+/-0.004 $\chi^2$/NDF:16851.2/25

All: 22.554+/-0.003 $\chi^2$/NDF: 36565.7/47

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 302.272+/-106.312 $\chi^2$/NDF:0.9/6

Right Out: -146.573+/-68.398 $\chi^2$/NDF: 11.6/18

Left In: 267.781+/-105.220 $\chi^2$/NDF:1.6/5

Left: 284.848+/-74.785 $\chi^2$/NDF: 2.6/12

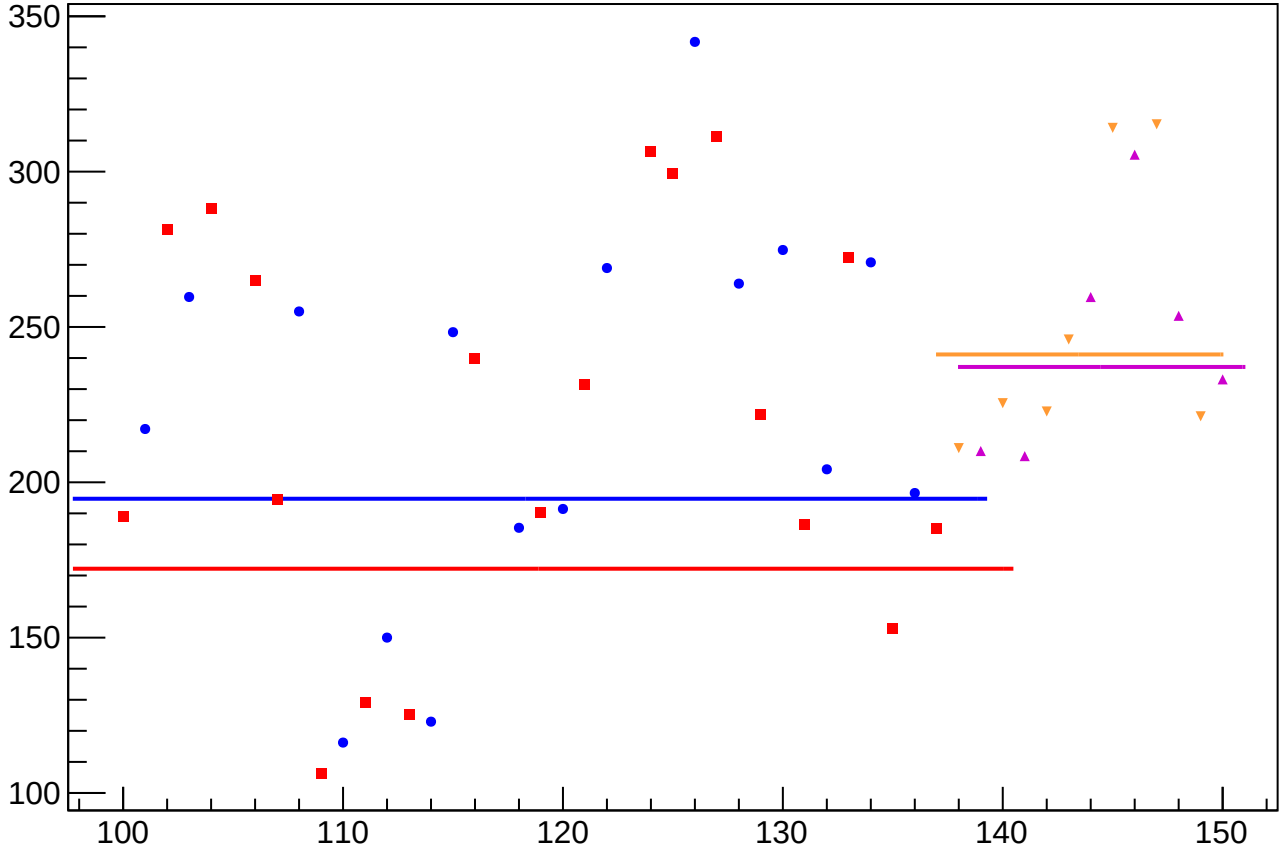
Right: -102.614+/-51.010 $\chi^2$/NDF: 27.9/34

In: 61.644+/-61.912 $\chi^2$/NDF:22.9/21

Out: -15.174+/-57.521 $\chi^2$/NDF:25.1/25

All: 20.415+/-42.141 $\chi^2$/NDF: 48.8/47

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 194.708+/-0.054 $\chi^2$/NDF: 1052288.9/15

Left Out: 241.154+/-0.075 $\chi^2$/NDF:236457.1/6

Right Out: 172.186+/-0.048 $\chi^2$/NDF: 1671068.3/18

Left In: 237.131+/-0.074 $\chi^2$/NDF:169740.2/5

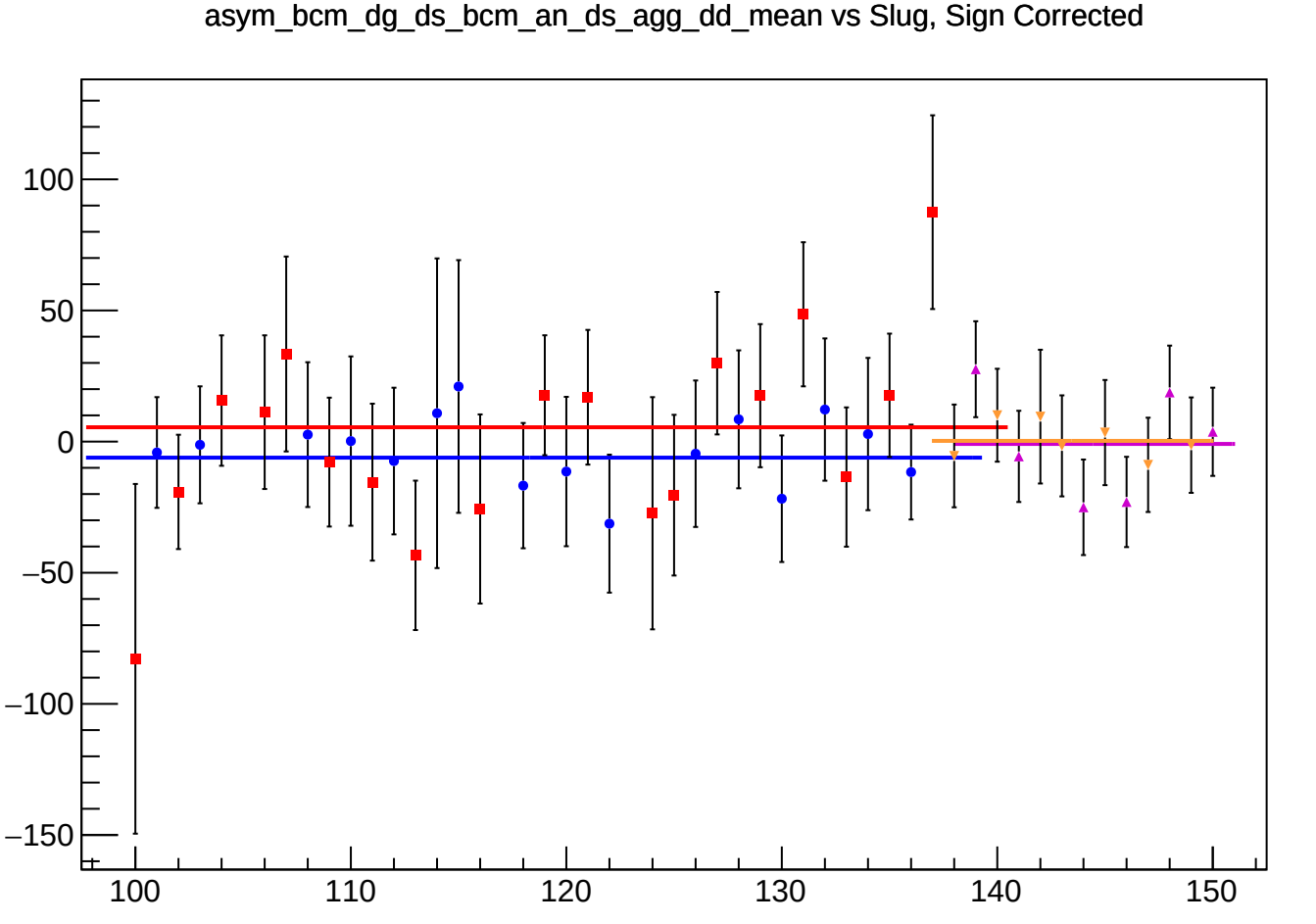
Left: 239.122+/-0.053 $\chi^2$/NDF: 407644.0/12

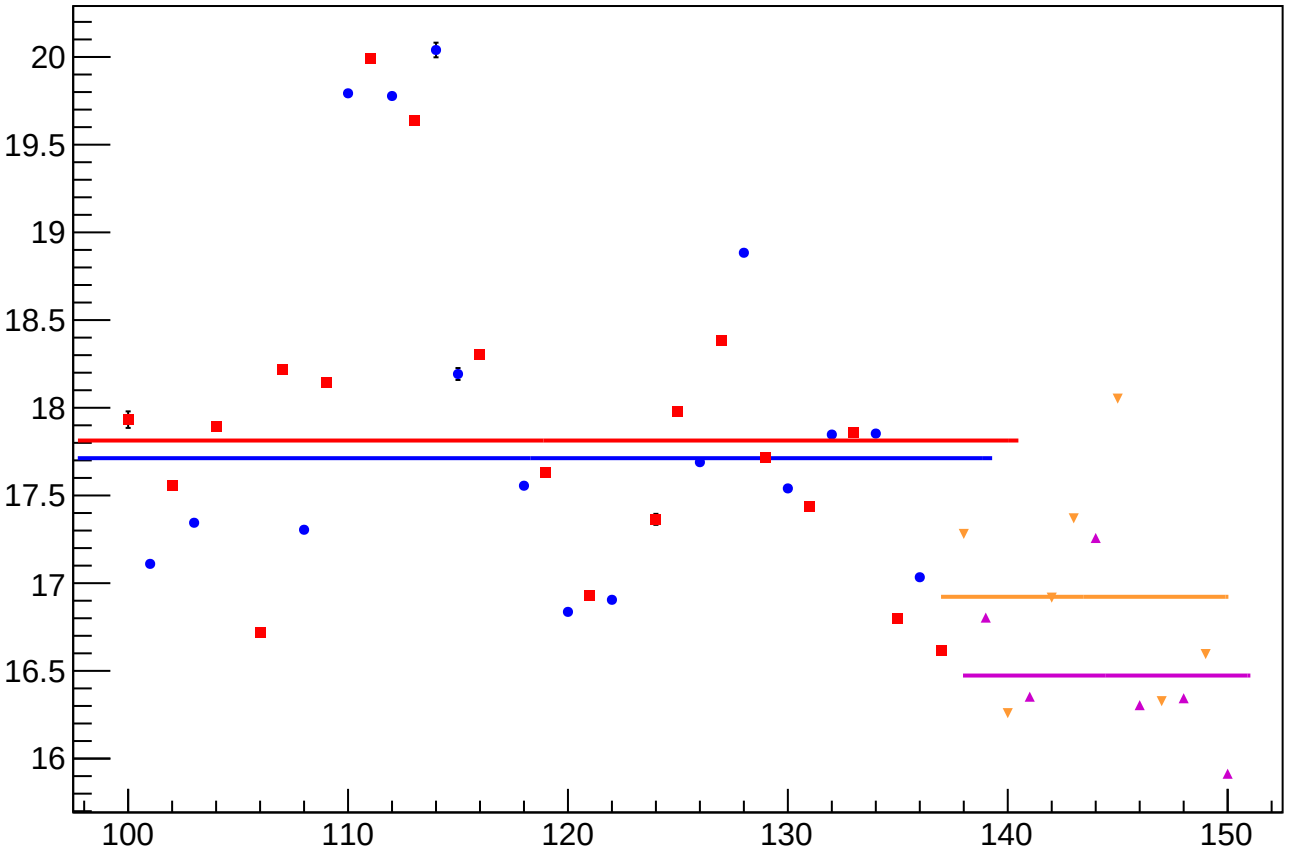
Right: 182.181+/-0.036 $\chi^2$/NDF: 2819594.0/34

In: 209.396+/-0.044 $\chi^2$/NDF:1434581.7/21

Out: 192.376+/-0.041 $\chi^2$/NDF:2502821.0/25

All: 200.261+/-0.030 $\chi^2$/NDF: 4018521.5/47


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected
100
50
0
−50
−100
−150
100
110
120
130
140
150
Right In: -6.119+/-6.592 χ²/NDF: 3.1/15
Left Out: 0.274+/-7.326 χ²/NDF:0.8/6
Right Out: 5.470+/-6.509 χ²/NDF: 19.2/18
Left In: -0.892+/-7.187 χ²/NDF:7.2/5
Left: -0.320+/-5.130 χ²/NDF: 8.0/12
Right: -0.251+/-4.632 χ²/NDF: 23.9/34
In: -3.731+/-4.858 χ²/NDF:10.6/21
Out: 3.178+/-4.866 χ²/NDF:20.3/25
All: -0.282+/-3.438 χ²/NDF: 31.9/47




Right In: 17.713+/-0.005 $\chi^2$/NDF: 35983.5/15

Left Out: 16.922+/-0.005 $\chi^2$/NDF:13743.0/6

Right Out: 17.813+/-0.005 $\chi^2$/NDF: 32713.6/18

Left In: 16.473+/-0.005 $\chi^2$/NDF:6971.4/5

Left: 16.694+/-0.004 $\chi^2$/NDF: 24542.4/12

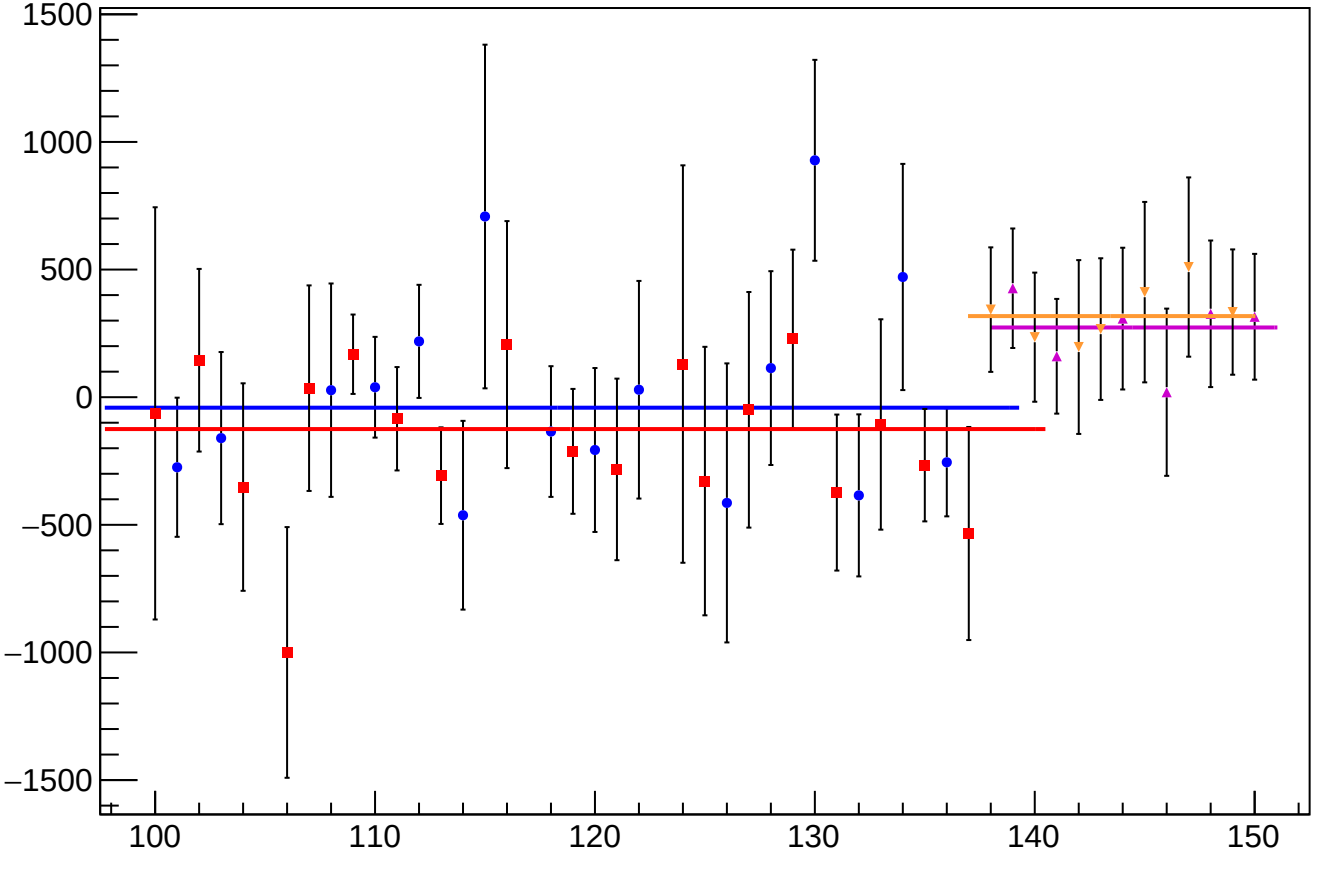
Right: 17.764+/-0.003 $\chi^2$/NDF: 68933.0/34

In: 17.146+/-0.003 $\chi^2$/NDF:75250.7/21

Out: 17.420+/-0.003 $\chi^2$/NDF:62986.7/25

All: 17.283+/-0.002 $\chi^2$/NDF: 141410.1/47

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -41.114+/-77.139 $\chi^2$/NDF: 15.6/15

Left Out: 317.733+/-107.357 $\chi^2$/NDF:0.7/6

Right Out: -124.872+/-69.109 $\chi^2$/NDF: 12.9/18

Left In: 273.121+/-106.034 $\chi^2$/NDF:1.4/5

Left: 295.151+/-75.441 $\chi^2$/NDF: 2.1/12

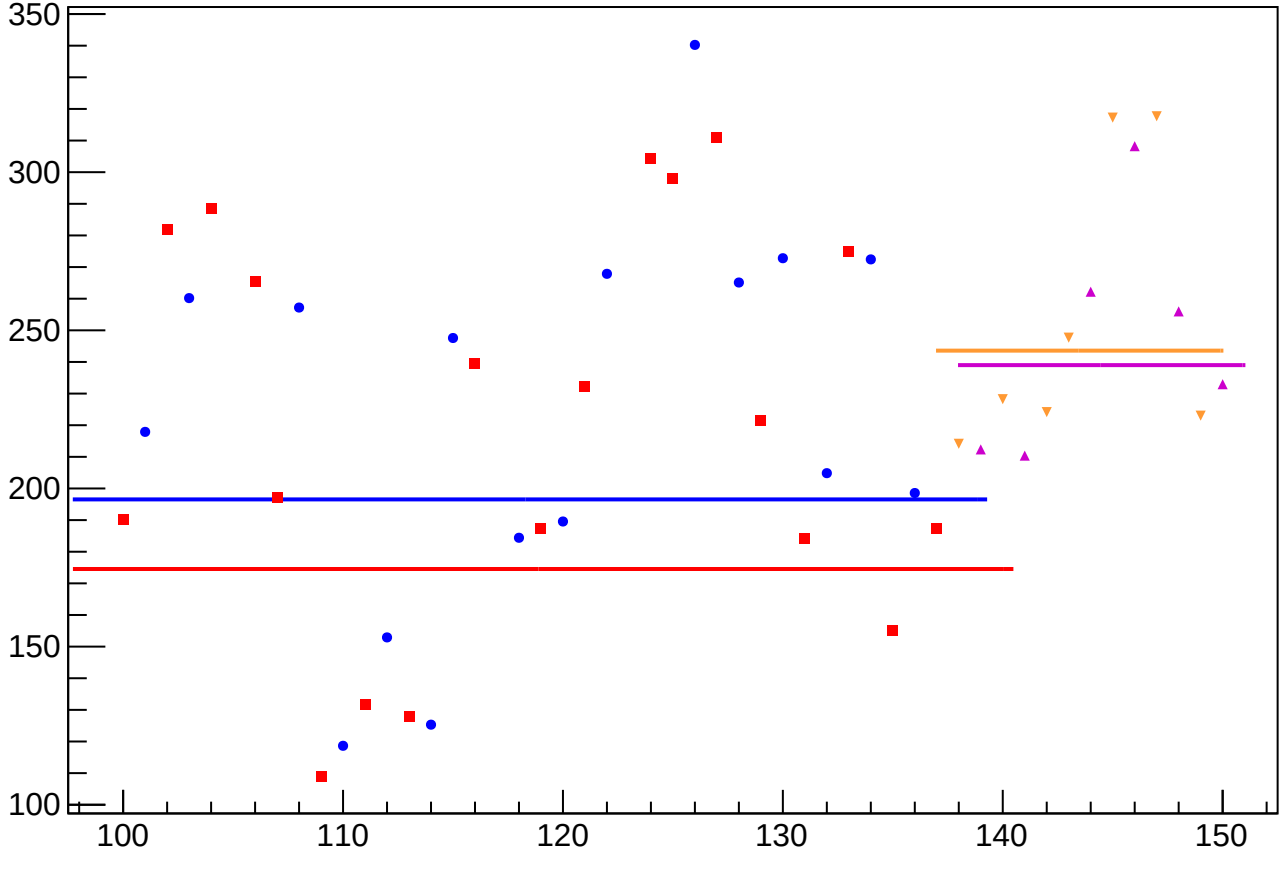
Right: -87.579+/-51.473 $\chi^2$/NDF: 29.1/34

In: 67.637+/-62.379 $\chi^2$/NDF:22.7/21

Out: 4.801+/-58.110 $\chi^2$/NDF:25.5/25

All: 33.995+/-42.519 $\chi^2$/NDF: 48.8/47

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 243.581+/-0.076 $\chi^2$/NDF:233445.3/6

Right Out: 174.540+/-0.049 $\chi^2$/NDF: 1588725.2/18

Left In: 238.999+/-0.075 $\chi^2$/NDF:169817.1/5

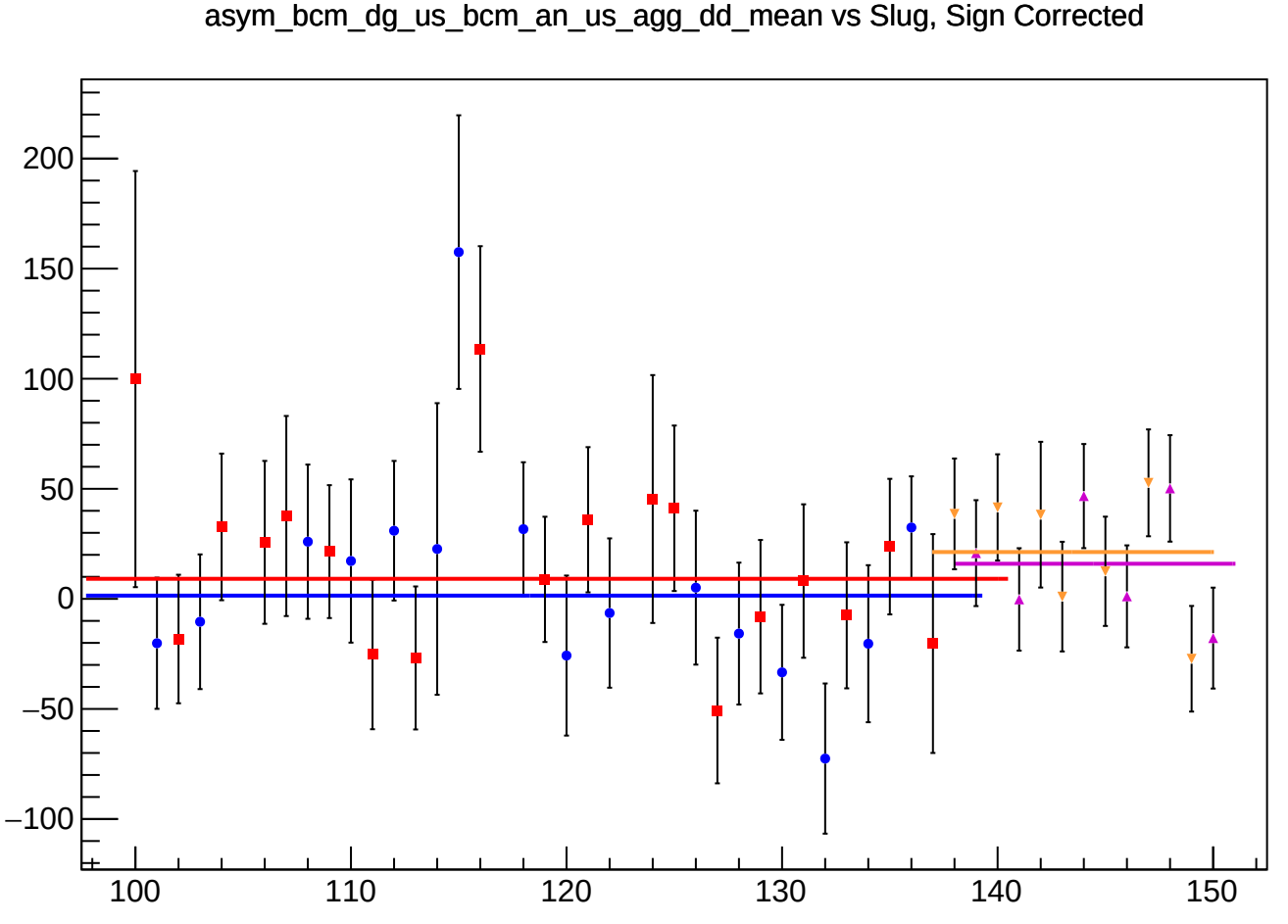
Left: 241.261+/-0.053 $\chi^2$/NDF: 405107.0/12

Right: 184.337+/-0.036 $\chi^2$/NDF: 2679758.7/34

In: 211.236+/-0.044 $\chi^2$/NDF:1380263.2/21

Out: 194.767+/-0.041 $\chi^2$/NDF:2406984.4/25

All: 202.419+/-0.030 $\chi^2$/NDF: 3861877.8/47




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 21.272+/-9.586 $\chi^2$/NDF:8.0/6

Right Out: 9.113+/-8.198 $\chi^2$/NDF: 16.5/18

Left In: 15.950+/-9.604 $\chi^2$/NDF:6.8/5

Left: 18.616+/-6.785 $\chi^2$/NDF: 14.9/12

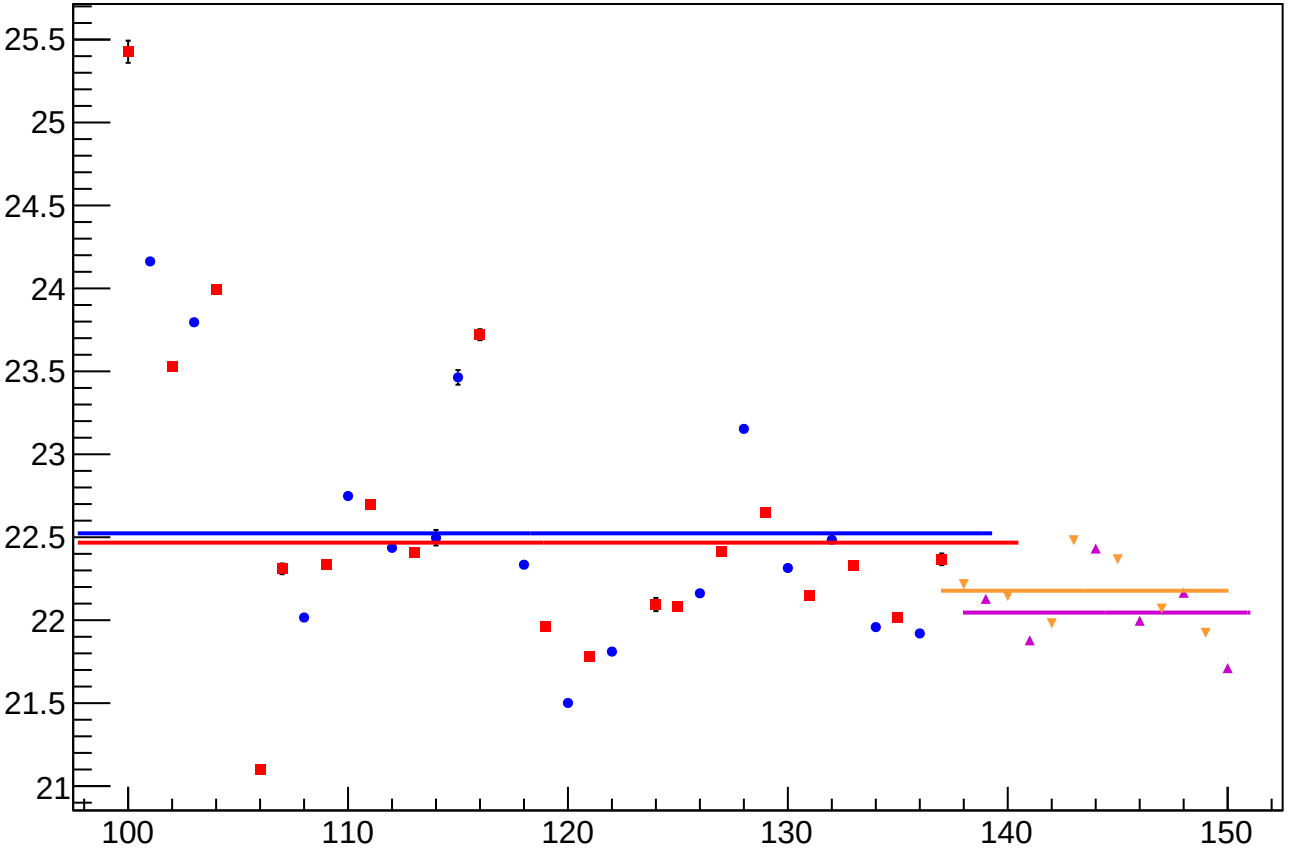
Right: 5.374+/-5.857 $\chi^2$/NDF: 35.6/34

In: 7.724+/-6.310 $\chi^2$/NDF:26.8/21

Out: 14.249+/-6.230 $\chi^2$/NDF:25.4/25

All: 11.028+/-4.433 $\chi^2$/NDF: 52.7/47

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.524+/-0.006 $\chi^2$/NDF: 15947.8/15

Left Out: 22.178+/-0.007 $\chi^2$/NDF:757.4/6

Right Out: 22.468+/-0.006 $\chi^2$/NDF: 15626.5/18

Left In: 22.046+/-0.007 $\chi^2$/NDF:1144.1/5

Left: 22.112+/-0.005 $\chi^2$/NDF: 2090.0/12

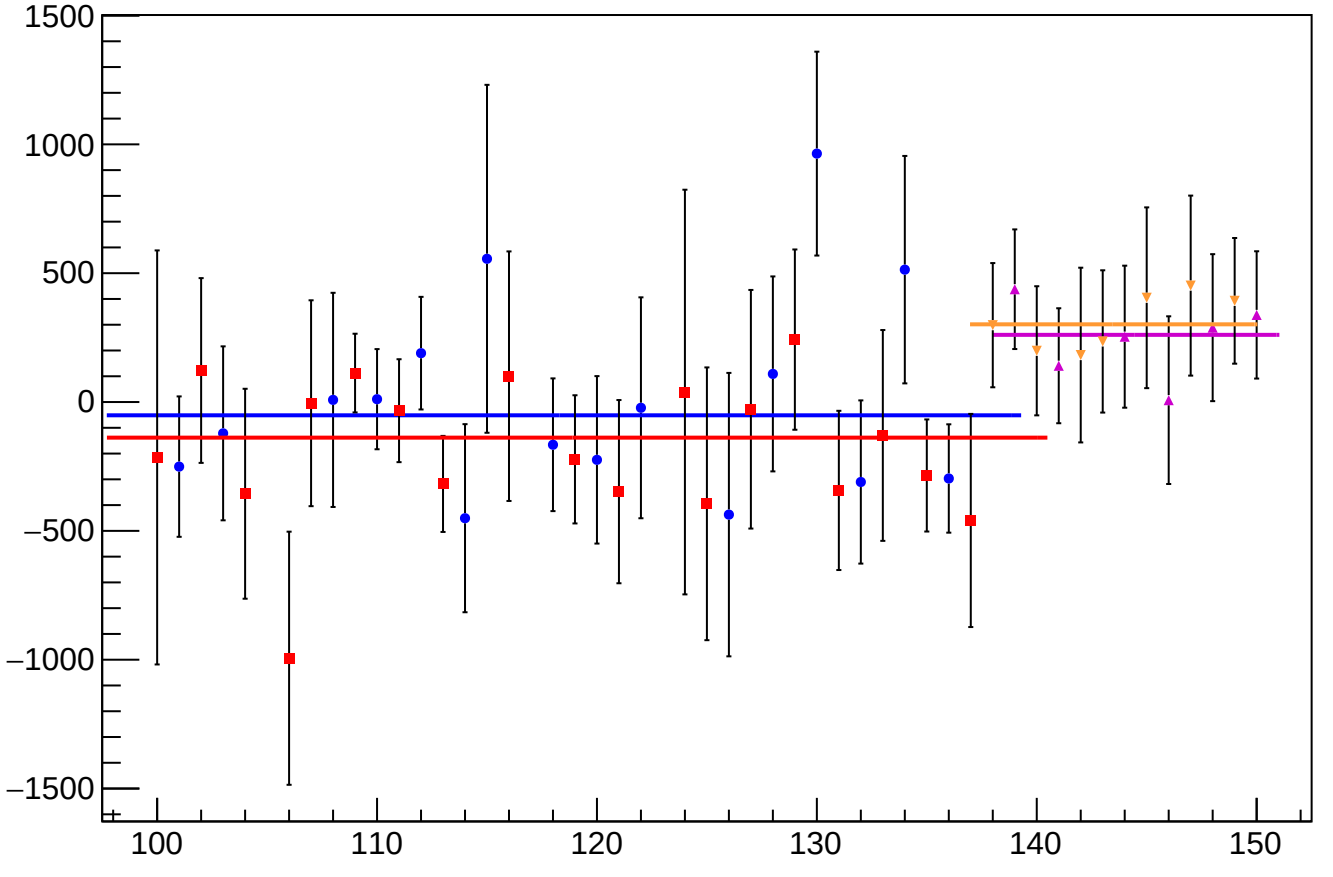
Right: 22.495+/-0.004 $\chi^2$/NDF: 31619.9/34

In: 22.317+/-0.004 $\chi^2$/NDF:19903.3/21

Out: 22.345+/-0.004 $\chi^2$/NDF:17440.4/25

All: 22.331+/-0.003 $\chi^2$/NDF: 37363.3/47

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 301.565+/-106.540 $\chi^2$/NDF:0.8/6

Right Out: -138.184+/-68.625 $\chi^2$/NDF: 11.6/18

Left In: 260.731+/-105.446 $\chi^2$/NDF:1.6/5

Left: 280.937+/-74.945 $\chi^2$/NDF: 2.4/12

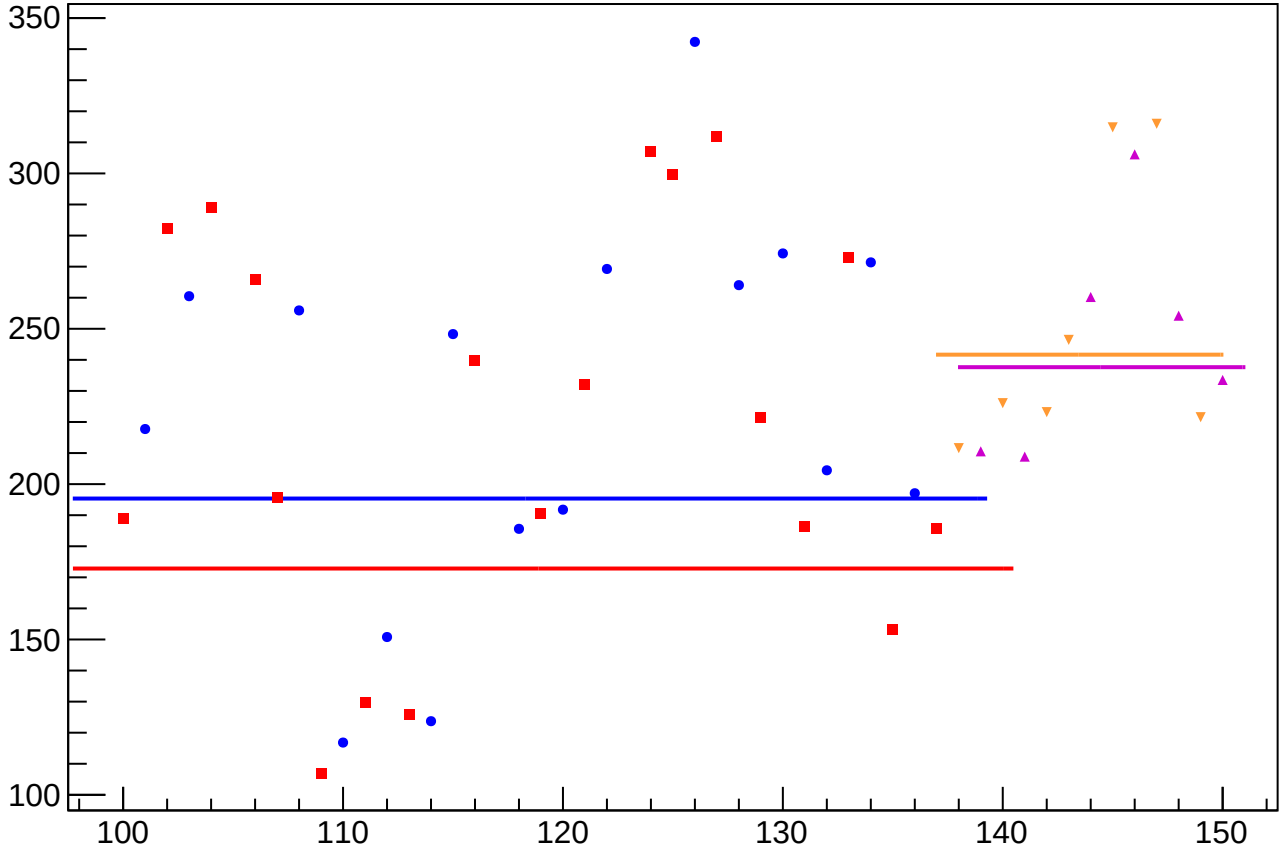
Right: -99.695+/-51.171 $\chi^2$/NDF: 27.7/34

In: 56.723+/-62.078 $\chi^2$/NDF:22.7/21

Out: -9.236+/-57.692 $\chi^2$/NDF:24.4/25

All: 21.332+/-42.260 $\chi^2$/NDF: 47.7/47

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 195.361+/-0.054 $\chi^2$/NDF: 1041432.1/15

Left Out: 241.670+/-0.075 $\chi^2$/NDF:236615.2/6

Right Out: 172.837+/-0.049 $\chi^2$/NDF: 1659430.2/18

Left In: 237.641+/-0.075 $\chi^2$/NDF:169884.4/5

Left: 239.635+/-0.053 $\chi^2$/NDF: 407944.9/12

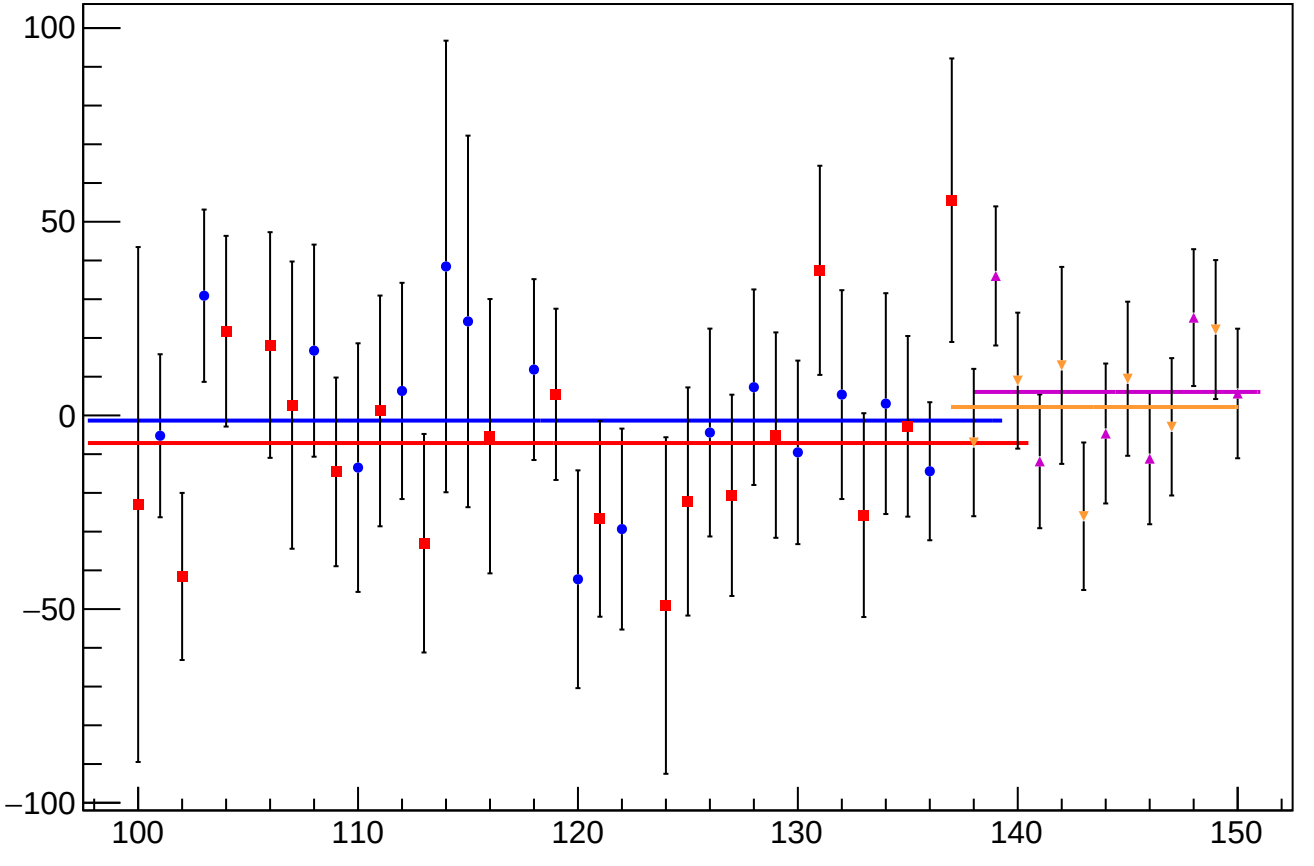
Right: 182.837+/-0.036 $\chi^2$/NDF: 2796519.3/34

In: 210.015+/-0.044 $\chi^2$/NDF:1421412.8/21

Out: 193.021+/-0.041 $\chi^2$/NDF:2486079.5/25

All: 200.896+/-0.030 $\chi^2$/NDF: 3987911.4/47

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: -1.331+/-6.499 $\chi^2$/NDF: 8.0/15

Left Out: 2.169+/-7.230 $\chi^2$/NDF:4.2/6

Right Out: -7.126+/-6.402 $\chi^2$/NDF: 14.4/18

Left In: 6.063+/-7.110 $\chi^2$/NDF:6.4/5

Left: 4.148+/-5.069 $\chi^2$/NDF: 10.8/12

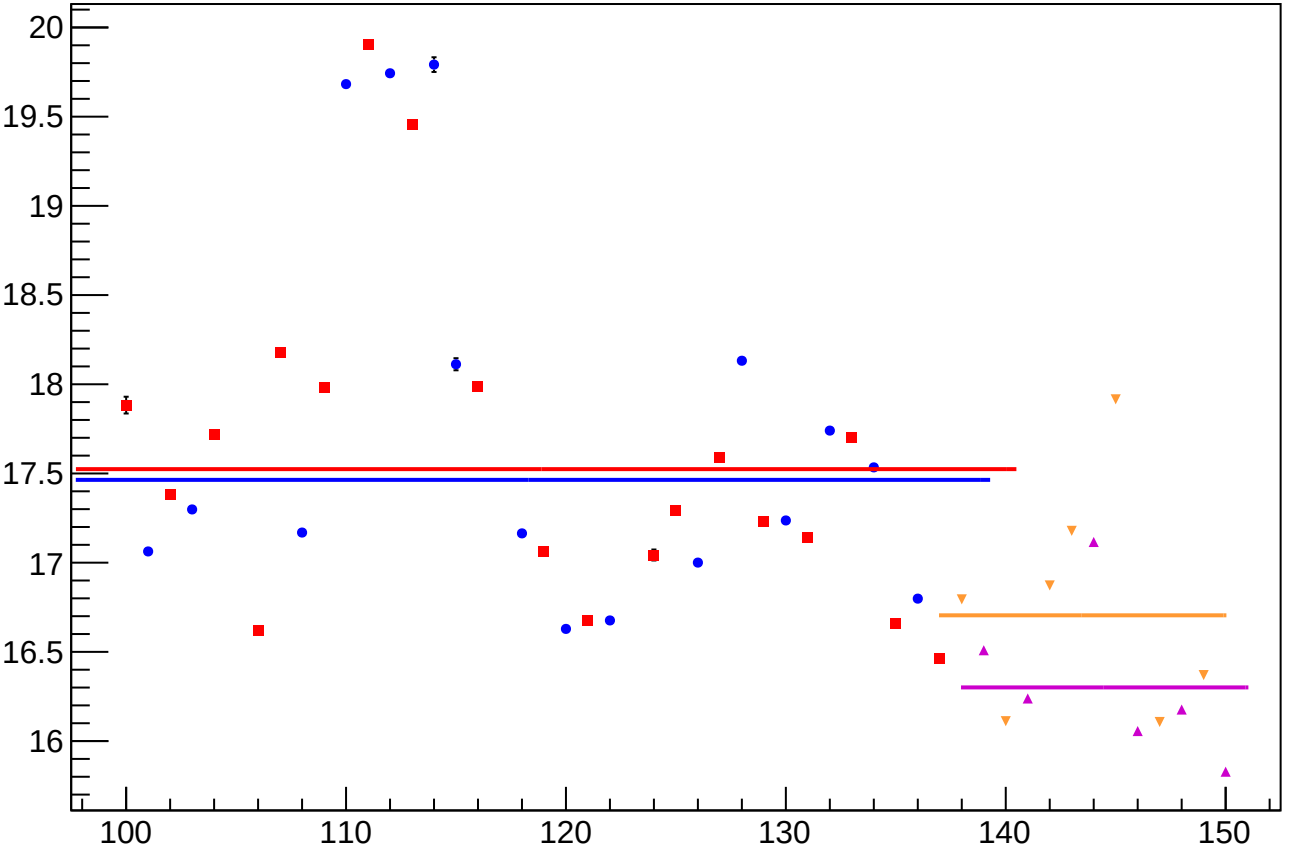
Right: -4.272+/-4.561 $\chi^2$/NDF: 22.8/34

In: 2.034+/-4.797 $\chi^2$/NDF:15.0/21

Out: -3.041+/-4.793 $\chi^2$/NDF:19.6/25

All: -0.505+/-3.391 $\chi^2$/NDF: 35.1/47

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 17.464+/-0.005 $\chi^2$/NDF: 36650.1/15

Left Out: 16.705+/-0.005 $\chi^2$/NDF:14032.3/6

Right Out: 17.524+/-0.005 $\chi^2$/NDF: 34726.0/18

Left In: 16.301+/-0.005 $\chi^2$/NDF:6480.4/5

Left: 16.499+/-0.004 $\chi^2$/NDF: 23689.4/12

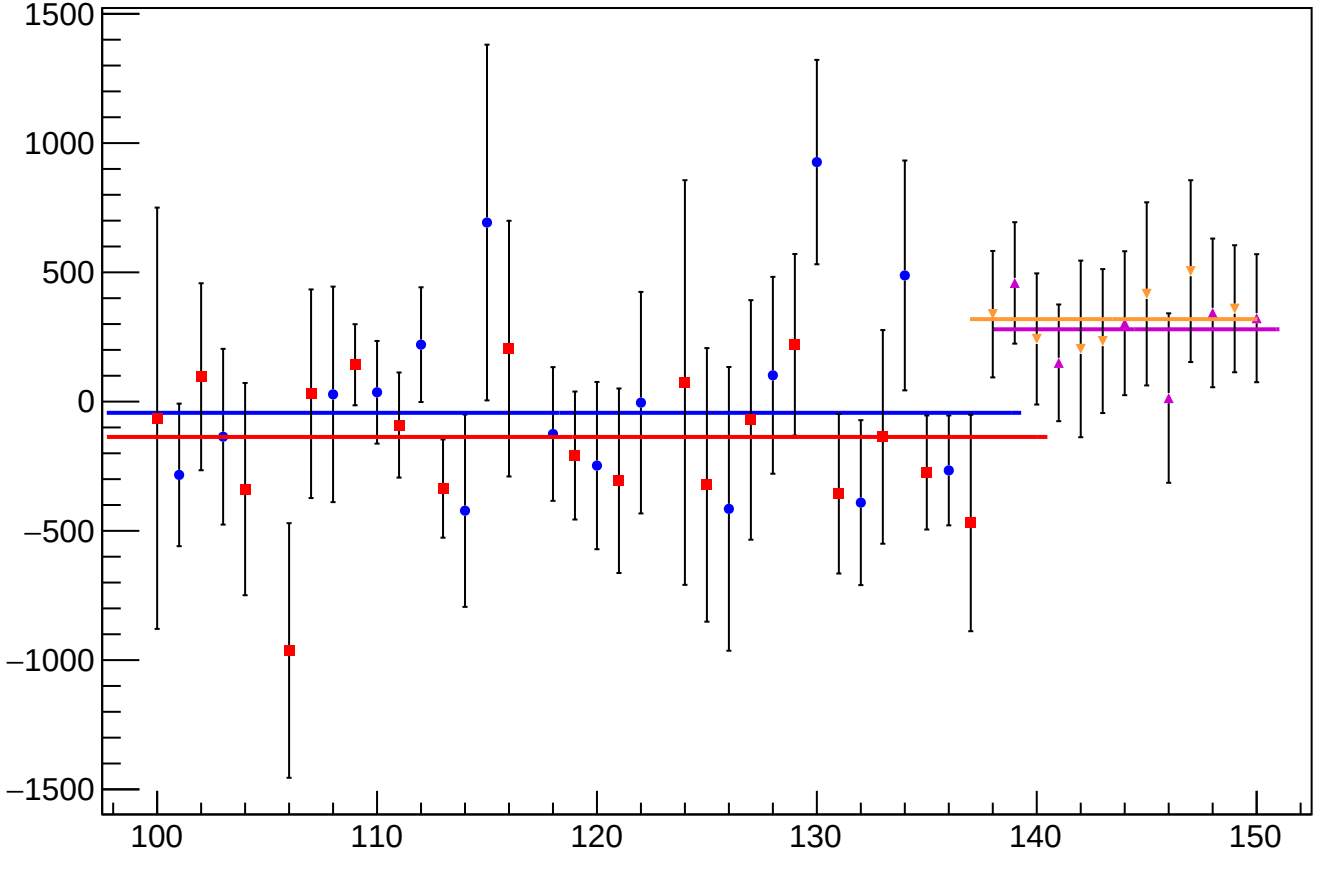
Right: 17.495+/-0.003 $\chi^2$/NDF: 71463.1/34

In: 16.935+/-0.003 $\chi^2$/NDF:72306.8/21

Out: 17.164+/-0.003 $\chi^2$/NDF:63157.9/25

All: 17.050+/-0.002 $\chi^2$/NDF: 137757.1/47

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -43.384+/-77.584 $\chi^2$/NDF: 15.5/15

Left Out: 318.934+/-107.626 $\chi^2$/NDF:0.7/6

Right Out: -136.778+/-69.557 $\chi^2$/NDF: 11.5/18

Left In: 279.673+/-106.382 $\chi^2$/NDF:1.7/5

Left: 299.075+/-75.660 $\chi^2$/NDF: 2.4/12

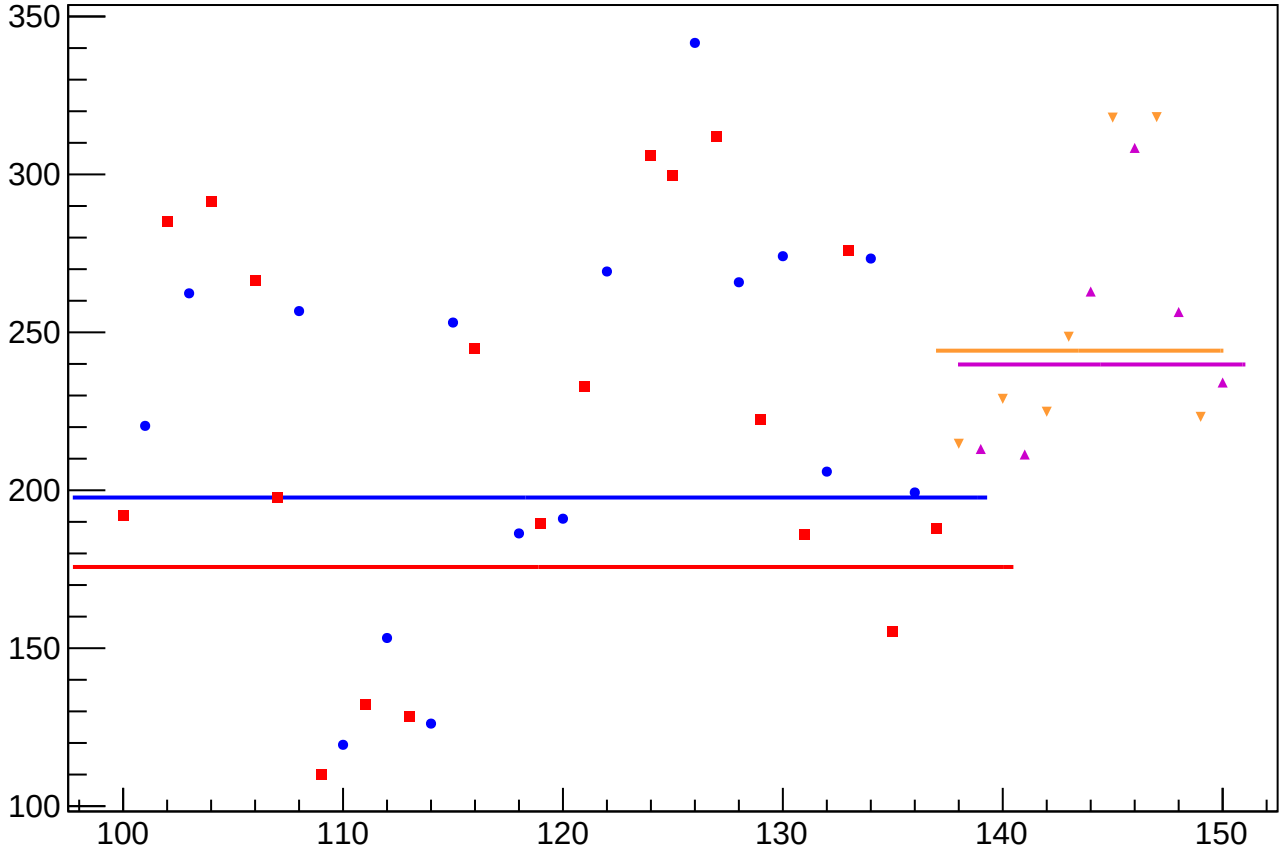
Right: -95.161+/-51.790 $\chi^2$/NDF: 27.8/34

In: 68.783+/-62.685 $\chi^2$/NDF:23.1/21

Out: -2.515+/-58.418 $\chi^2$/NDF:24.9/25

All: 30.625+/-42.737 $\chi^2$/NDF: 48.7/47

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 197.707+/-0.055 $\chi^2$/NDF: 1000324.6/15

Left Out: 244.201+/-0.076 $\chi^2$/NDF:232874.6/6

Right Out: 175.716+/-0.049 $\chi^2$/NDF: 1590559.8/18

Left In: 239.827+/-0.075 $\chi^2$/NDF:166854.1/5

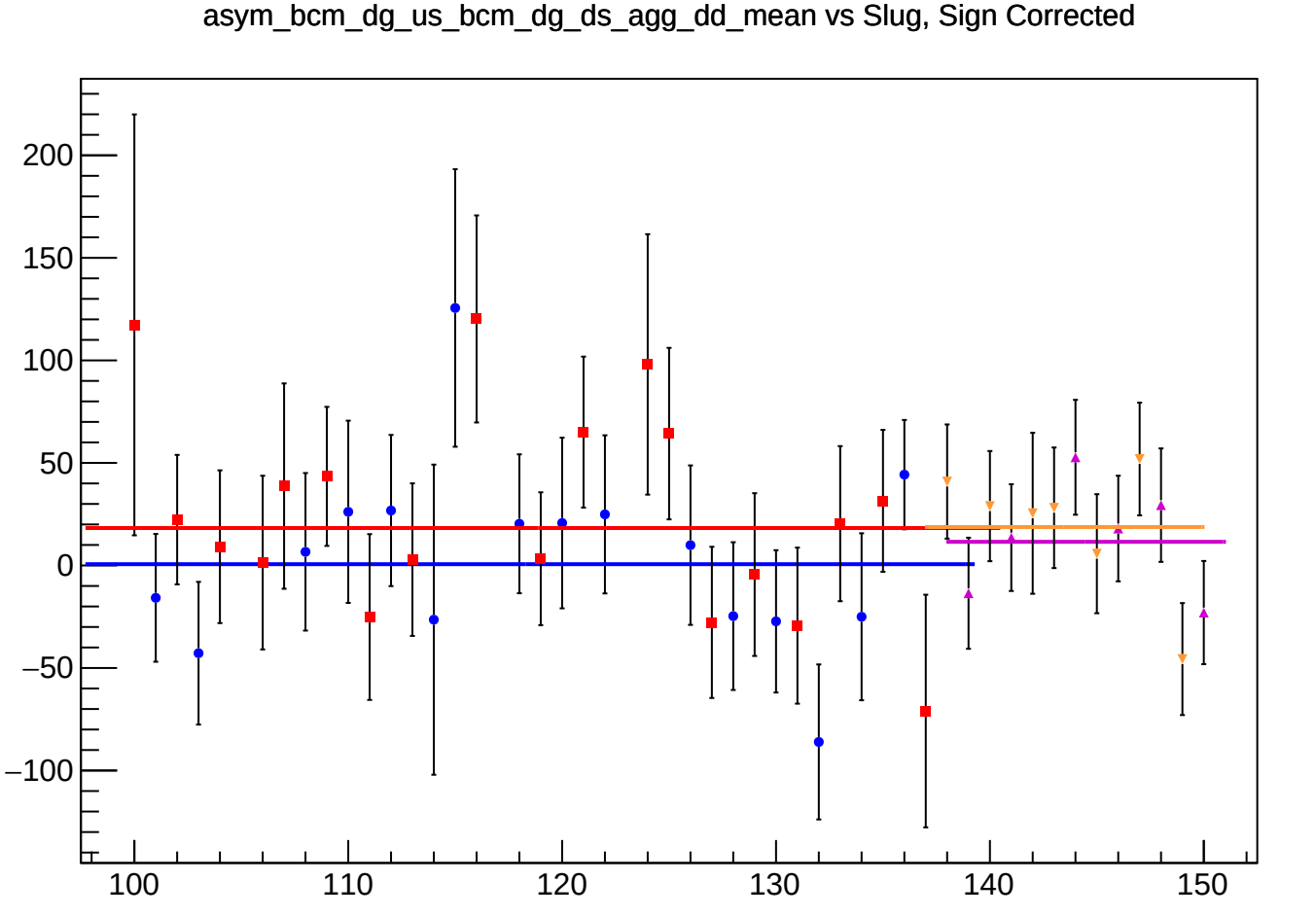
Left: 241.988+/-0.053 $\chi^2$/NDF: 401399.7/12

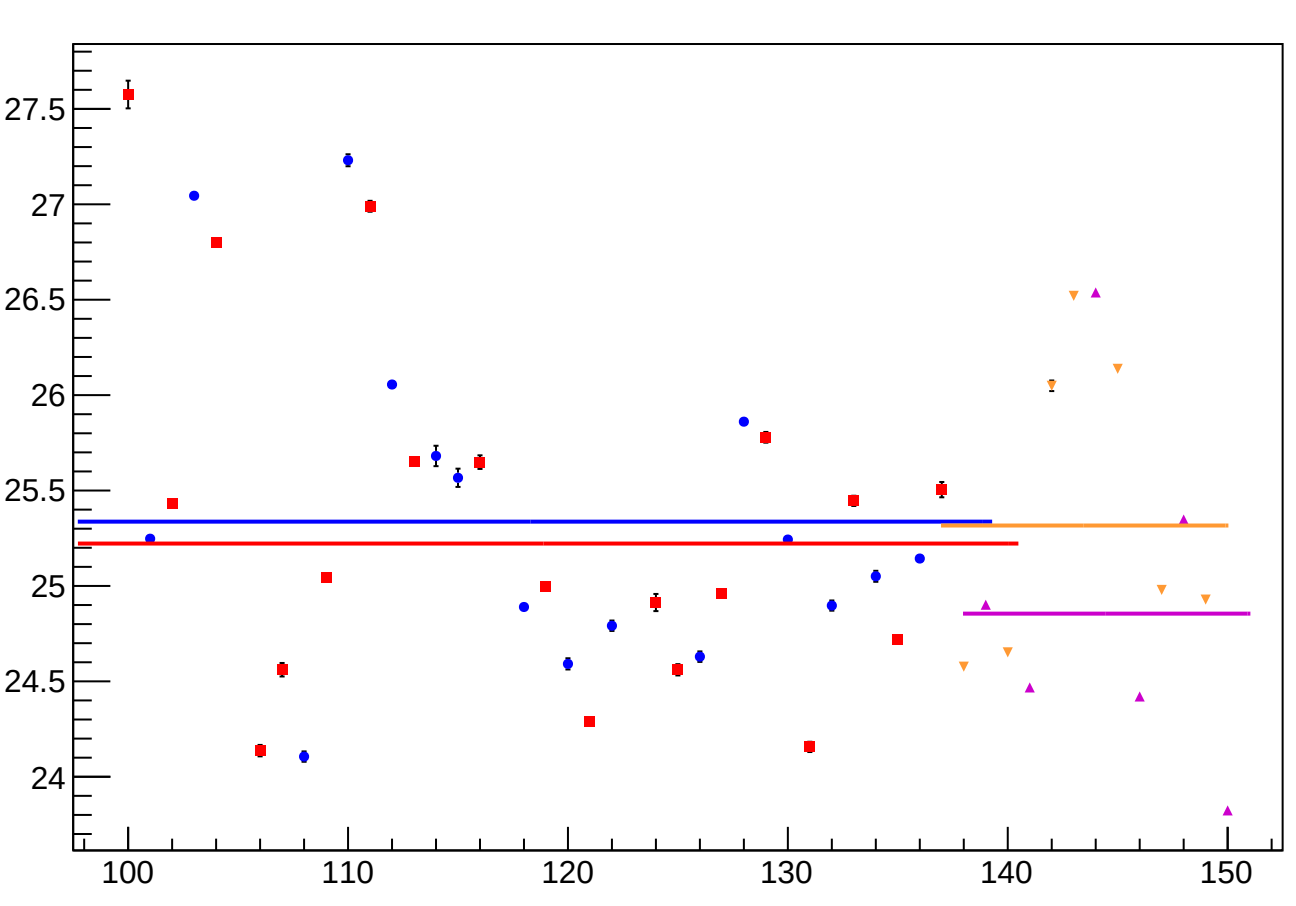
Right: 185.515+/-0.037 $\chi^2$/NDF: 2679972.8/34

In: 212.331+/-0.044 $\chi^2$/NDF:1371837.8/21

Out: 195.893+/-0.041 $\chi^2$/NDF:2394661.7/25

All: 203.534+/-0.030 $\chi^2$/NDF: 3840108.3/47


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
−100
100
110
120
130
140
150
Right In: 0.619+/-9.421 χ²/NDF: 16.7/15
Left Out: 18.744+/-10.954 χ²/NDF:8.1/6
Right Out: 18.248+/-9.208 χ²/NDF: 18.0/18
Left In: 11.536+/-10.842 χ²/NDF:5.4/5
Left: 15.103+/-7.706 χ²/NDF: 13.7/12
Right: 9.635+/-6.585 χ²/NDF: 36.5/34
In: 5.316+/-7.112 χ²/NDF:22.7/21
Out: 18.453+/-7.049 χ²/NDF:26.1/25
All: 11.943+/-5.006 χ²/NDF: 50.5/47




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.317+/-0.008 $\chi^2$/NDF:8992.4/6

Right Out: 25.222+/-0.007 $\chi^2$/NDF: 15224.4/18

Left In: 24.855+/-0.008 $\chi^2$/NDF:12233.3/5

Left: 25.083+/-0.005 $\chi^2$/NDF: 23021.0/12

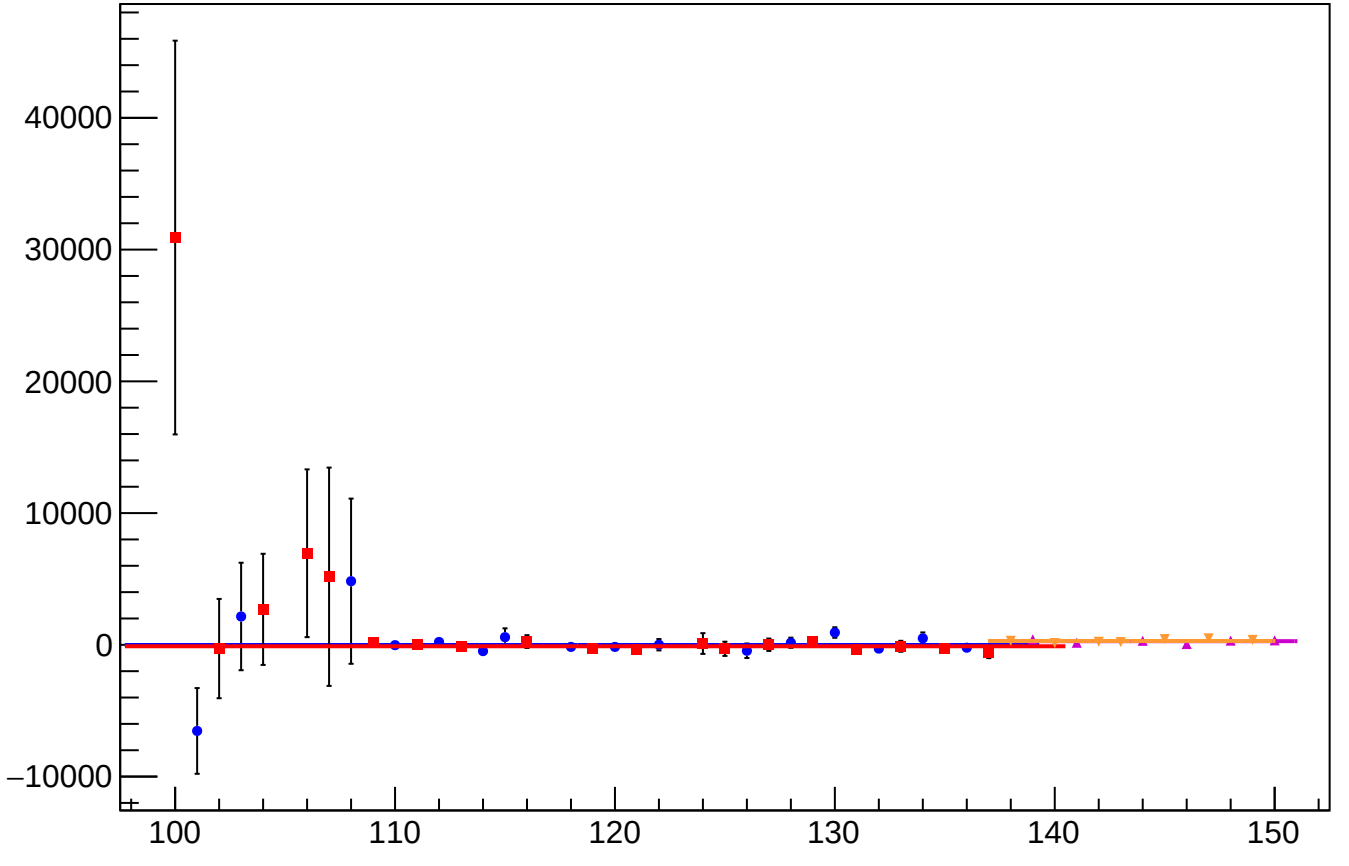
Right: 25.278+/-0.005 $\chi^2$/NDF: 29691.5/34

In: 25.130+/-0.005 $\chi^2$/NDF:28801.4/21

Out: 25.261+/-0.005 $\chi^2$/NDF:24304.1/25

All: 25.196+/-0.004 $\chi^2$/NDF: 53451.5/47

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -15.450+/-84.701 $\chi^2$/NDF: 18.3/15

Left Out: 291.971+/-109.082 $\chi^2$/NDF:1.1/6

Right Out: -108.825+/-78.099 $\chi^2$/NDF: 14.0/18

Left In: 278.330+/-107.434 $\chi^2$/NDF:1.1/5

Left: 285.047+/-76.543 $\chi^2$/NDF: 2.2/12

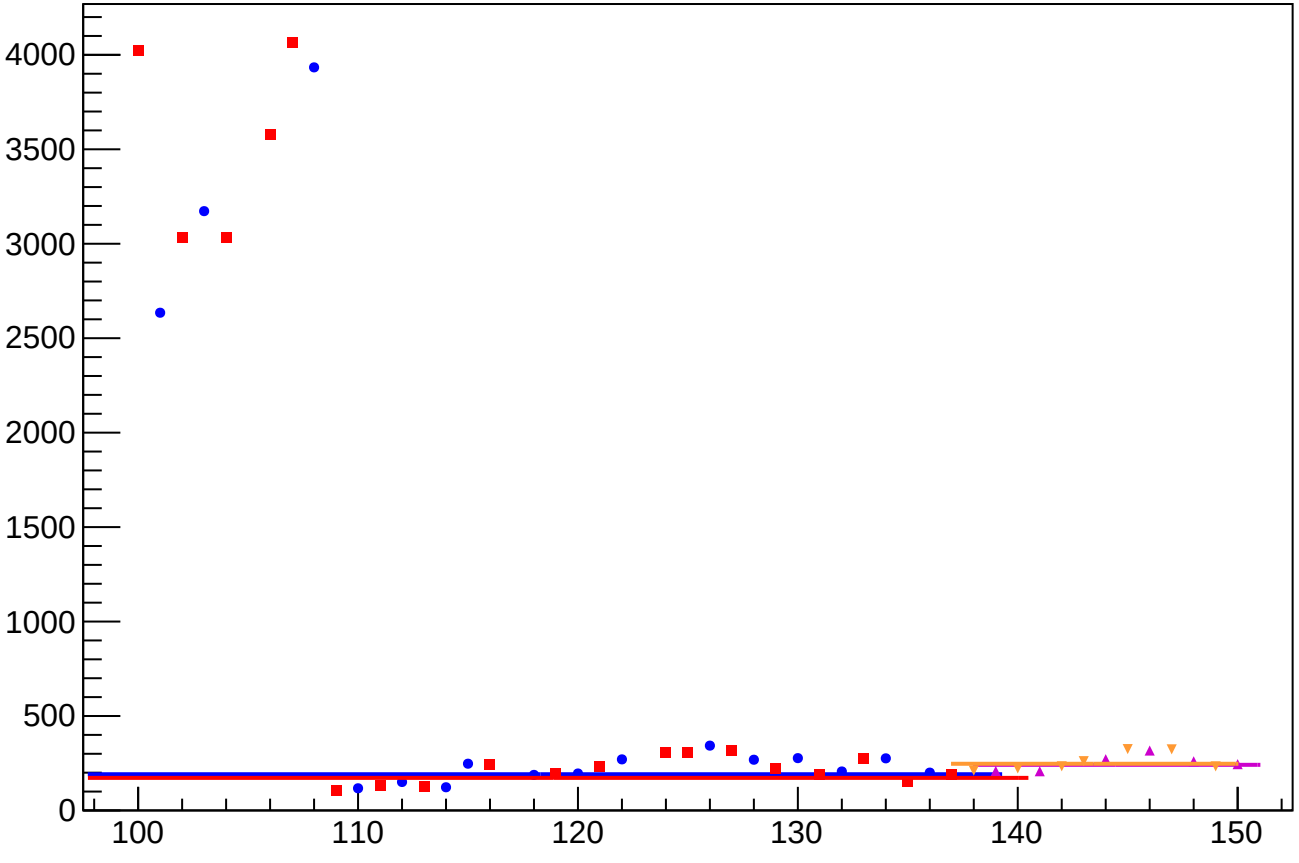
Right: -65.918+/-57.416 $\chi^2$/NDF: 33.0/34

In: 97.160+/-66.515 $\chi^2$/NDF:24.0/21

Out: 26.999+/-63.501 $\chi^2$/NDF:24.1/25

All: 60.454+/-45.931 $\chi^2$/NDF: 48.7/47

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.736+/-0.060 $\chi^2$/NDF: 3821804.2/15

Left Out: 247.126+/-0.077 $\chi^2$/NDF:262129.8/6

Right Out: 172.462+/-0.055 $\chi^2$/NDF: 4303129.4/18

Left In: 241.540+/-0.076 $\chi^2$/NDF:218009.5/5

Left: 244.291+/-0.054 $\chi^2$/NDF: 482801.9/12

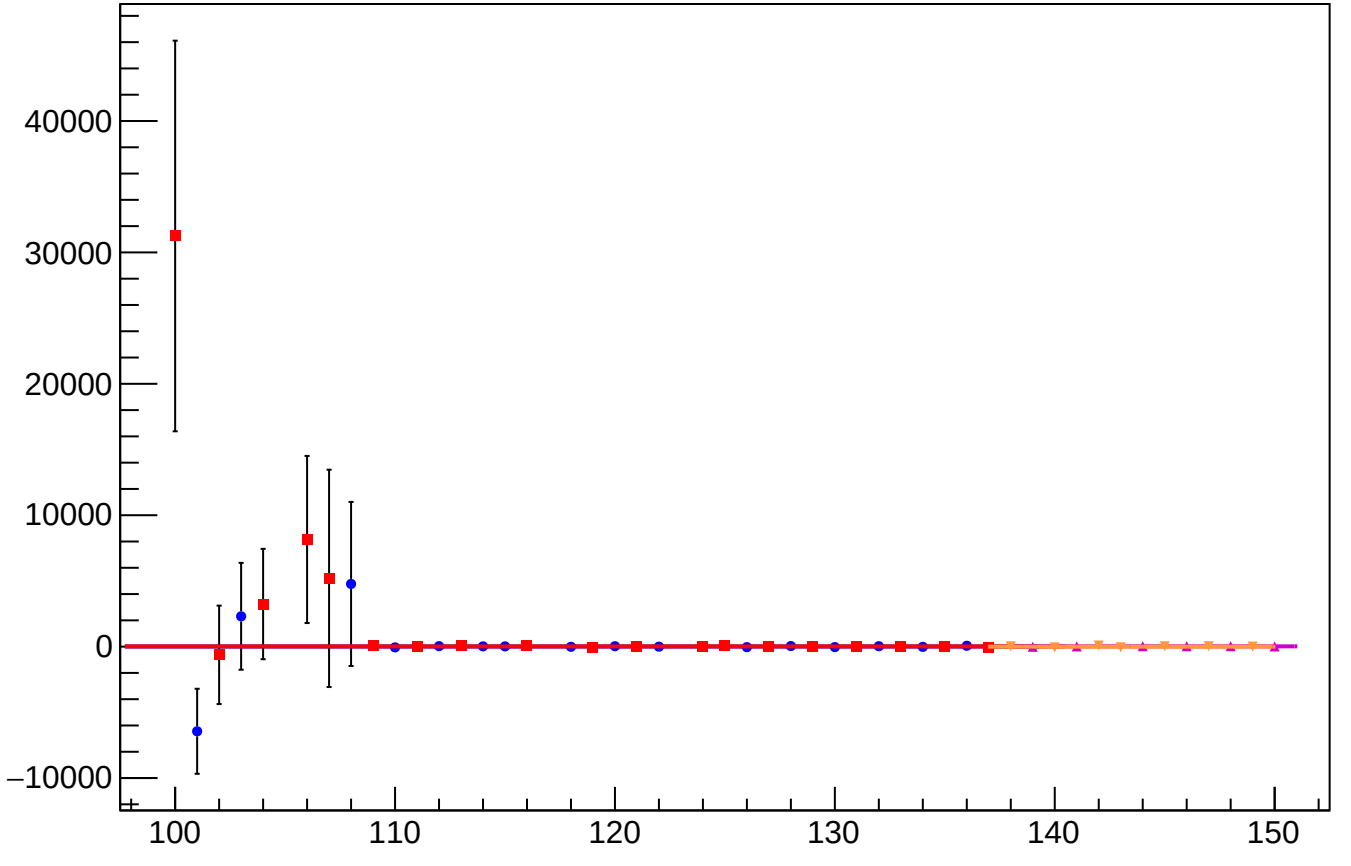
Right: 181.319+/-0.041 $\chi^2$/NDF: 8180903.6/34

In: 210.826+/-0.047 $\chi^2$/NDF:4304874.3/21

Out: 197.765+/-0.045 $\chi^2$/NDF:5184728.4/25

All: 203.993+/-0.032 $\chi^2$/NDF: 9529950.0/47

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 9.576+/-11.685 $\chi^2$/NDF: 16.0/15

Left Out: -0.234+/-12.836 $\chi^2$/NDF:11.0/6

Right Out: 18.105+/-11.805 $\chi^2$/NDF: 24.8/18

Left In: 21.576+/-12.778 $\chi^2$/NDF:1.7/5

Left: 10.721+/-9.056 $\chi^2$/NDF: 14.2/12

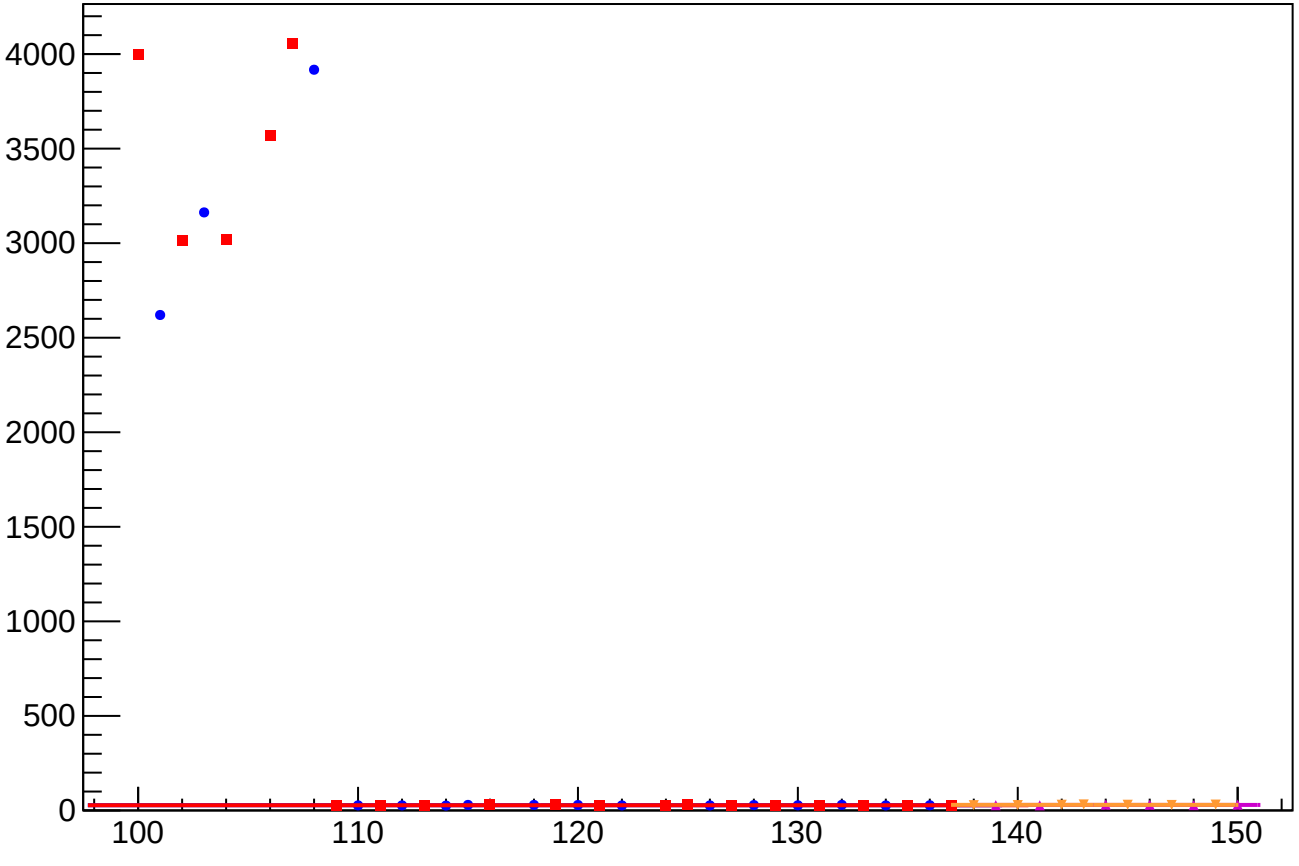
Right: 13.797+/-8.305 $\chi^2$/NDF: 41.0/34

In: 15.041+/-8.623 $\chi^2$/NDF:18.2/21

Out: 9.702+/-8.689 $\chi^2$/NDF:36.9/25

All: 12.392+/-6.121 $\chi^2$/NDF: 55.3/47

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.642+/-0.008 $\chi^2$/NDF: 3265498.5/15

Left Out: 29.568+/-0.009 $\chi^2$/NDF:21598.4/6

Right Out: 27.535+/-0.008 $\chi^2$/NDF: 3555229.4/18

Left In: 29.240+/-0.009 $\chi^2$/NDF:31221.6/5

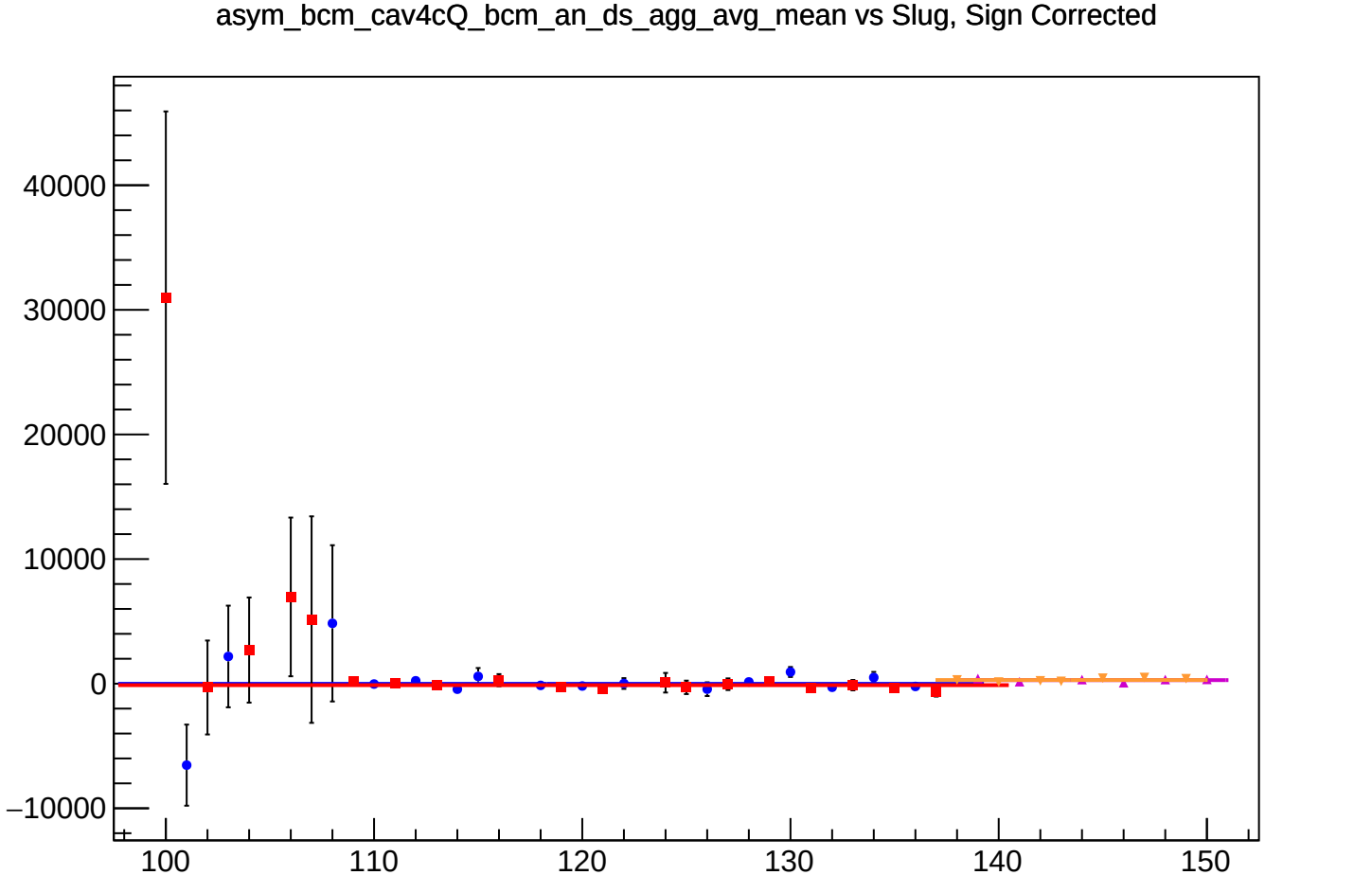
Left: 29.403+/-0.006 $\chi^2$/NDF: 53473.9/12

Right: 27.589+/-0.006 $\chi^2$/NDF: 6820810.9/34

In: 28.370+/-0.006 $\chi^2$/NDF:3313768.1/21

Out: 28.466+/-0.006 $\chi^2$/NDF:3604011.0/25

All: 28.418+/-0.004 $\chi^2$/NDF: 6917903.7/47




Right In: -13.160+/-84.454 $\chi^2$/NDF: 18.3/15

Left Out: 292.663+/-108.851 $\chi^2$/NDF:1.3/6

Right Out: -118.063+/-77.862 $\chi^2$/NDF: 14.4/18

Left In: 285.232+/-107.208 $\chi^2$/NDF:1.2/5

Left: 288.891+/-76.382 $\chi^2$/NDF: 2.4/12

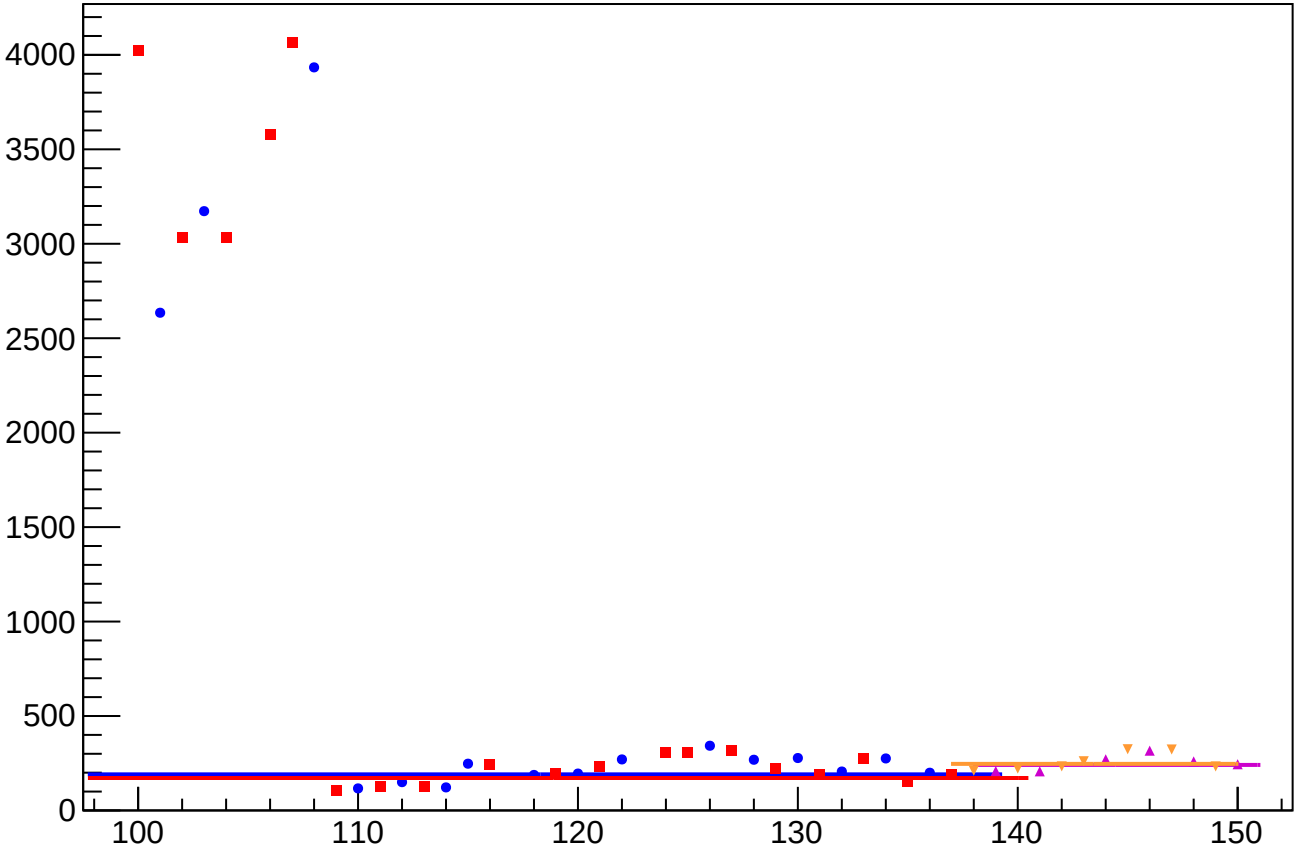
Right: -69.865+/-57.246 $\chi^2$/NDF: 33.6/34

In: 101.103+/-66.342 $\chi^2$/NDF:24.3/21

Out: 20.959+/-63.329 $\chi^2$/NDF:25.1/25

All: 59.170+/-45.808 $\chi^2$/NDF: 50.1/47

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.070+/-0.060 $\chi^2$/NDF: 3833952.4/15

Left Out: 246.599+/-0.077 $\chi^2$/NDF:262345.8/6

Right Out: 171.835+/-0.055 $\chi^2$/NDF: 4314721.8/18

Left In: 241.031+/-0.076 $\chi^2$/NDF:218013.3/5

Left: 243.773+/-0.054 $\chi^2$/NDF: 483015.9/12

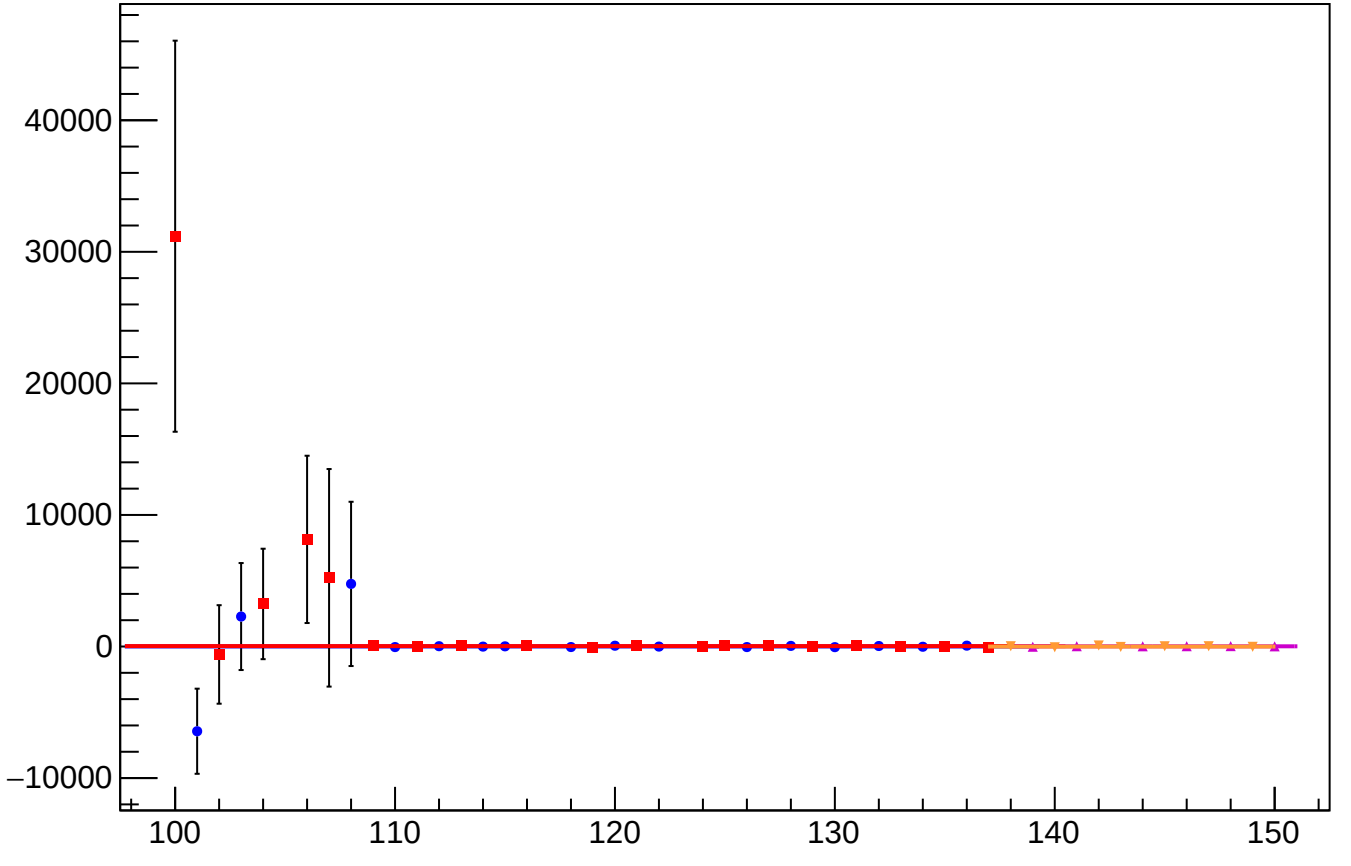
Right: 180.673+/-0.040 $\chi^2$/NDF: 8204752.1/34

In: 210.201+/-0.047 $\chi^2$/NDF:4319986.6/21

Out: 197.141+/-0.045 $\chi^2$/NDF:5201225.3/25

All: 203.368+/-0.032 $\chi^2$/NDF: 9561766.6/47

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 6.490+/-11.764 $\chi^2$/NDF: 18.3/15

Left Out: -2.719+/-12.927 $\chi^2$/NDF:9.0/6

Right Out: 30.962+/-11.902 $\chi^2$/NDF: 19.9/18

Left In: 15.708+/-12.860 $\chi^2$/NDF:1.4/5

Left: 6.542+/-9.117 $\chi^2$/NDF: 11.5/12

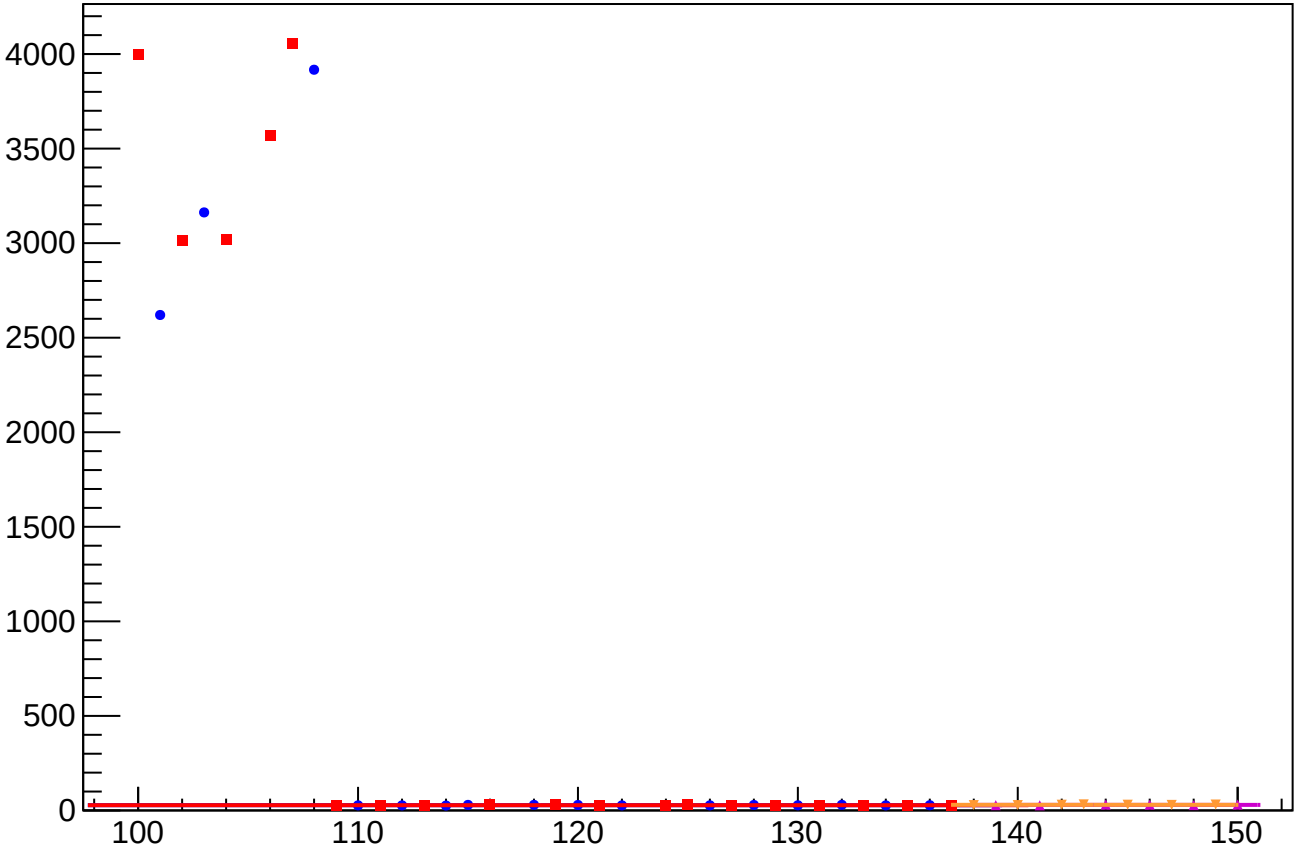
Right: 18.584+/-8.367 $\chi^2$/NDF: 40.3/34

In: 10.690+/-8.680 $\chi^2$/NDF:20.0/21

Out: 15.510+/-8.756 $\chi^2$/NDF:32.6/25

All: 13.079+/-6.164 $\chi^2$/NDF: 52.7/47

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.825+/-0.008 $\chi^2$/NDF: 3265895.3/15

Left Out: 29.773+/-0.009 $\chi^2$/NDF:22212.7/6

Right Out: 27.754+/-0.008 $\chi^2$/NDF: 3558676.9/18

Left In: 29.422+/-0.009 $\chi^2$/NDF:33748.4/5

Left: 29.597+/-0.006 $\chi^2$/NDF: 56702.8/12

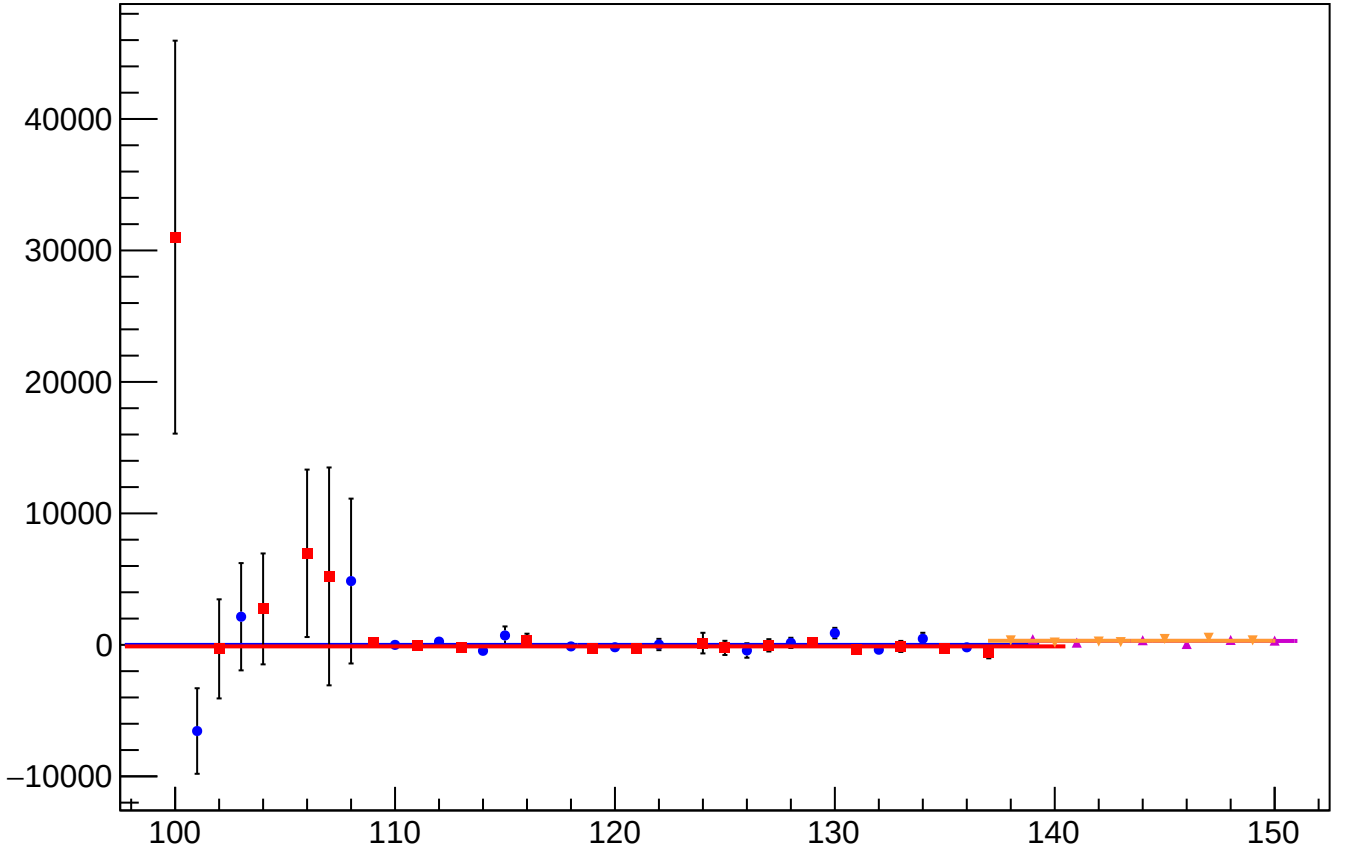
Right: 27.790+/-0.006 $\chi^2$/NDF: 6824608.5/34

In: 28.552+/-0.006 $\chi^2$/NDF:3316437.8/21

Out: 28.680+/-0.006 $\chi^2$/NDF:3607310.5/25

All: 28.616+/-0.004 $\chi^2$/NDF: 6923962.6/47

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -2.795+/-85.508 $\chi^2$/NDF: 18.2/15

Left Out: 310.306+/-110.168 $\chi^2$/NDF:1.0/6

Right Out: -115.753+/-78.952 $\chi^2$/NDF: 13.8/18

Left In: 297.090+/-108.364 $\chi^2$/NDF:1.2/5

Left: 303.589+/-77.255 $\chi^2$/NDF: 2.3/12

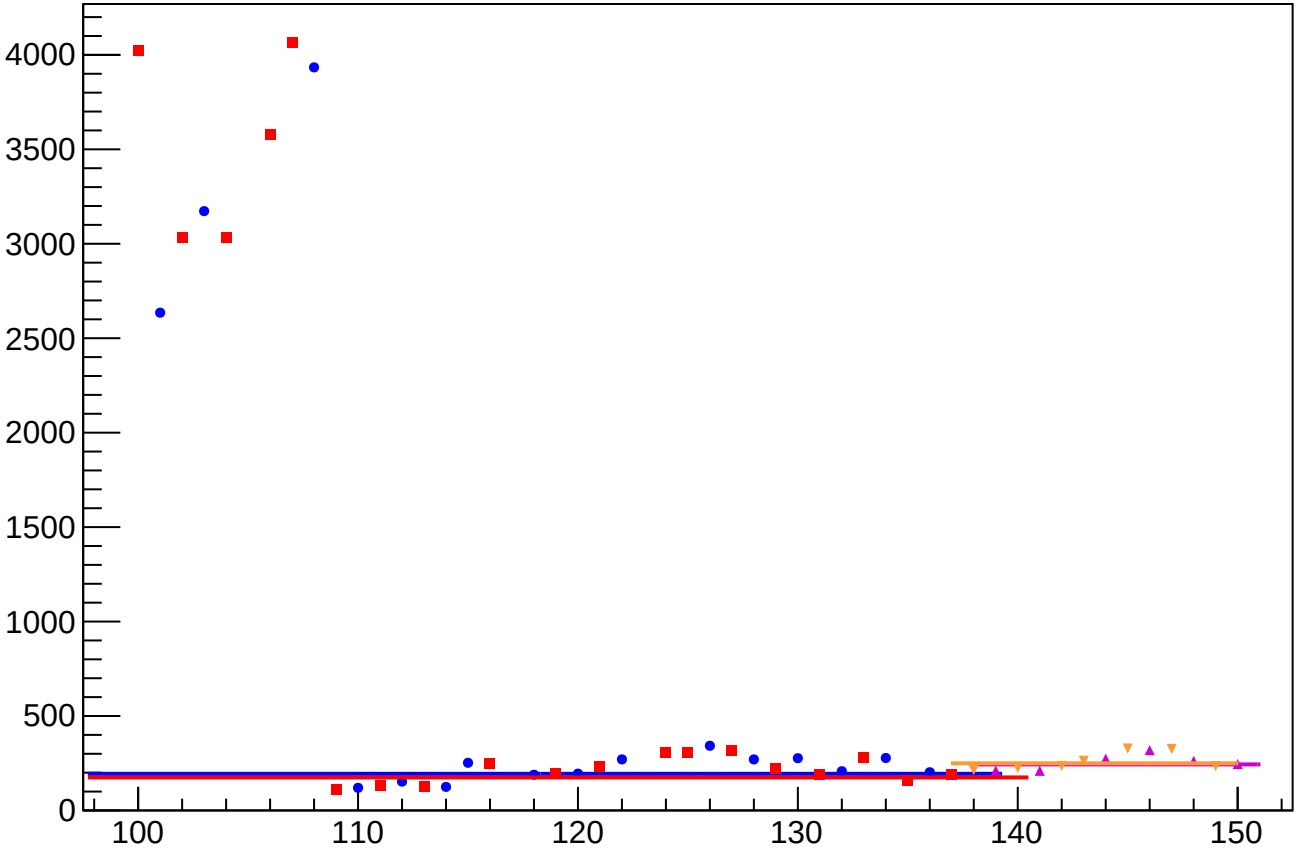
Right: -63.770+/-58.007 $\chi^2$/NDF: 33.0/34

In: 112.277+/-67.127 $\chi^2$/NDF:24.2/21

Out: 28.817+/-64.174 $\chi^2$/NDF:24.7/25

All: 68.672+/-46.387 $\chi^2$/NDF: 49.7/47

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 193.946+/-0.060 $\chi^2$/NDF: 3784467.5/15

Left Out: 249.670+/-0.078 $\chi^2$/NDF:256957.4/6

Right Out: 174.779+/-0.056 $\chi^2$/NDF: 4259323.6/18

Left In: 243.725+/-0.077 $\chi^2$/NDF:213415.5/5

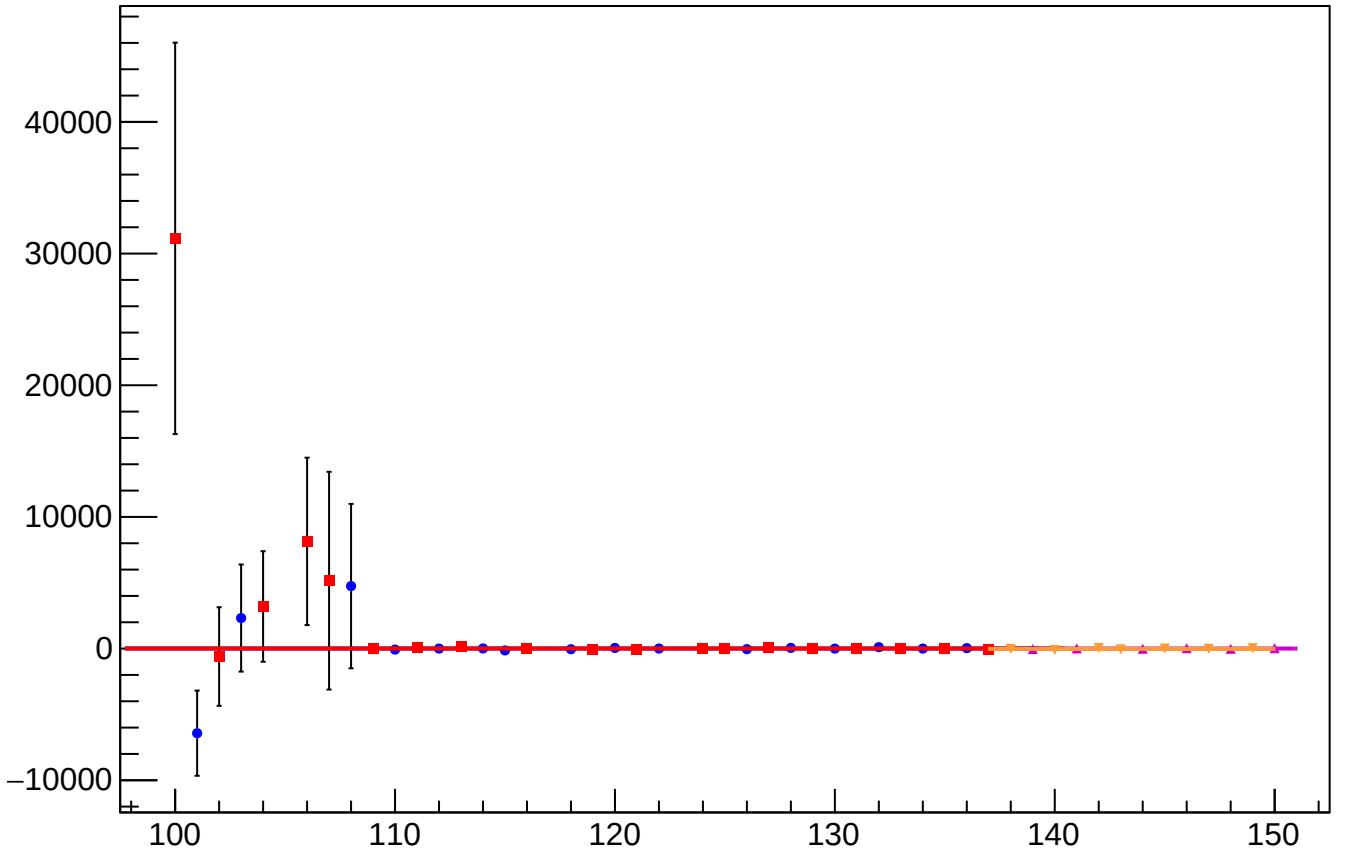
Left: 246.648+/-0.055 $\chi^2$/NDF: 473333.0/12

Right: 183.600+/-0.041 $\chi^2$/NDF: 8098034.9/34

In: 213.047+/-0.047 $\chi^2$/NDF:4257967.4/21

Out: 200.191+/-0.045 $\chi^2$/NDF:5126883.3/25

All: 206.330+/-0.033 $\chi^2$/NDF: 9423179.8/47




Right In: 5.660+/-14.306 $\chi^2$/NDF: 17.5/15

Left Out: -23.530+/-15.233 $\chi^2$/NDF:9.7/6

Right Out: 10.003+/-14.433 $\chi^2$/NDF: 23.4/18

Left In: 5.103+/-15.230 $\chi^2$/NDF:2.4/5

Left: -9.211+/-10.770 $\chi^2$/NDF: 13.9/12

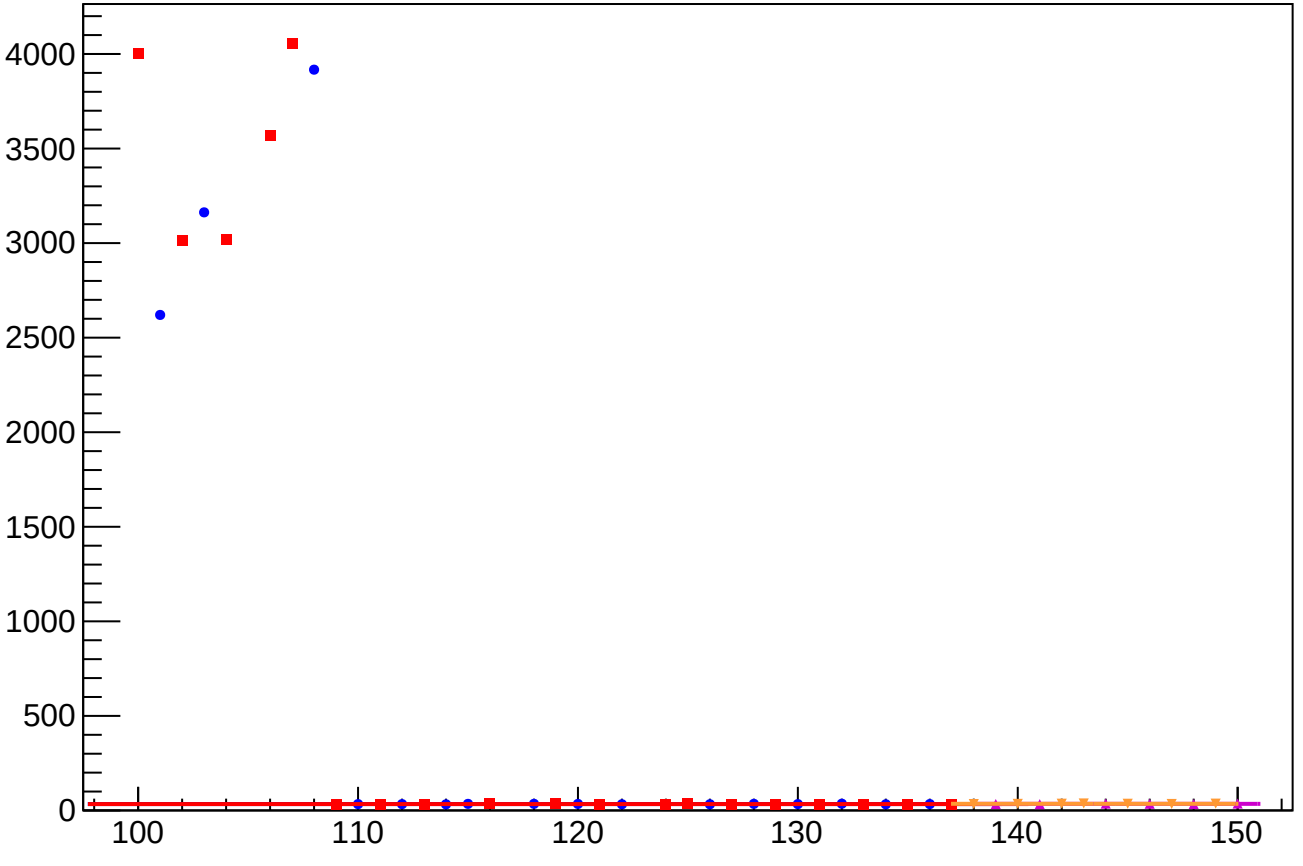
Right: 7.813+/-10.160 $\chi^2$/NDF: 40.9/34

In: 5.399+/-10.427 $\chi^2$/NDF:19.9/21

Out: -5.860+/-10.477 $\chi^2$/NDF:35.7/25

All: -0.204+/-7.391 $\chi^2$/NDF: 56.1/47

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 33.899+/-0.010 $\chi^2$/NDF: 3244382.4/15

Left Out: 35.161+/-0.011 $\chi^2$/NDF:8334.0/6

Right Out: 33.726+/-0.010 $\chi^2$/NDF: 3526463.8/18

Left In: 34.912+/-0.011 $\chi^2$/NDF:11821.6/5

Left: 35.037+/-0.008 $\chi^2$/NDF: 20421.4/12

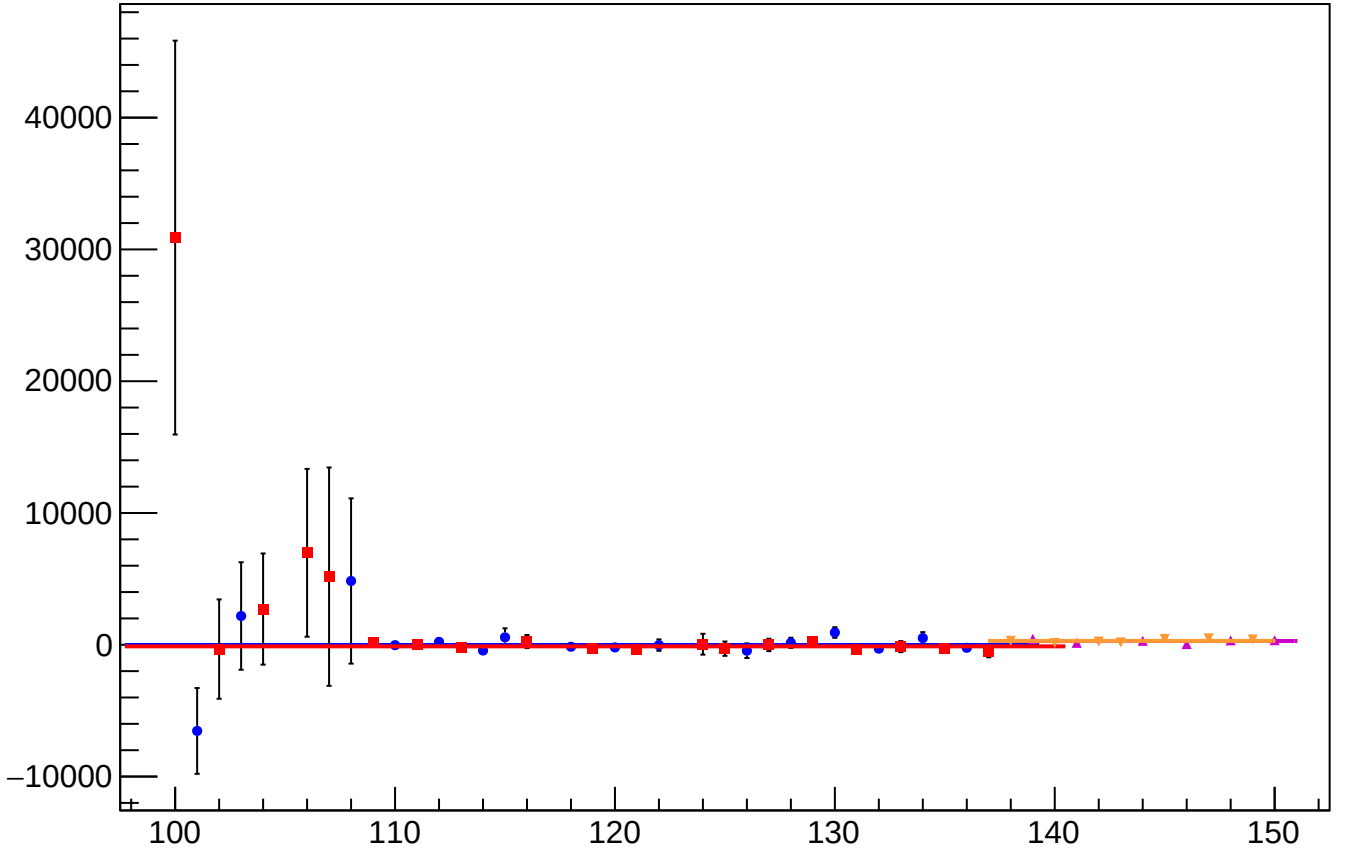
Right: 33.814+/-0.007 $\chi^2$/NDF: 6770991.8/34

In: 34.374+/-0.007 $\chi^2$/NDF:3260904.5/21

Out: 34.405+/-0.007 $\chi^2$/NDF:3544146.9/25

All: 34.389+/-0.005 $\chi^2$/NDF: 6805059.9/47

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -19.522+/-85.063 $\chi^2$/NDF: 18.2/15

Left Out: 292.961+/-109.331 $\chi^2$/NDF:1.2/6

Right Out: -119.922+/-78.455 $\chi^2$/NDF: 13.3/18

Left In: 285.496+/-107.757 $\chi^2$/NDF:1.4/5

Left: 289.174+/-76.746 $\chi^2$/NDF: 2.6/12

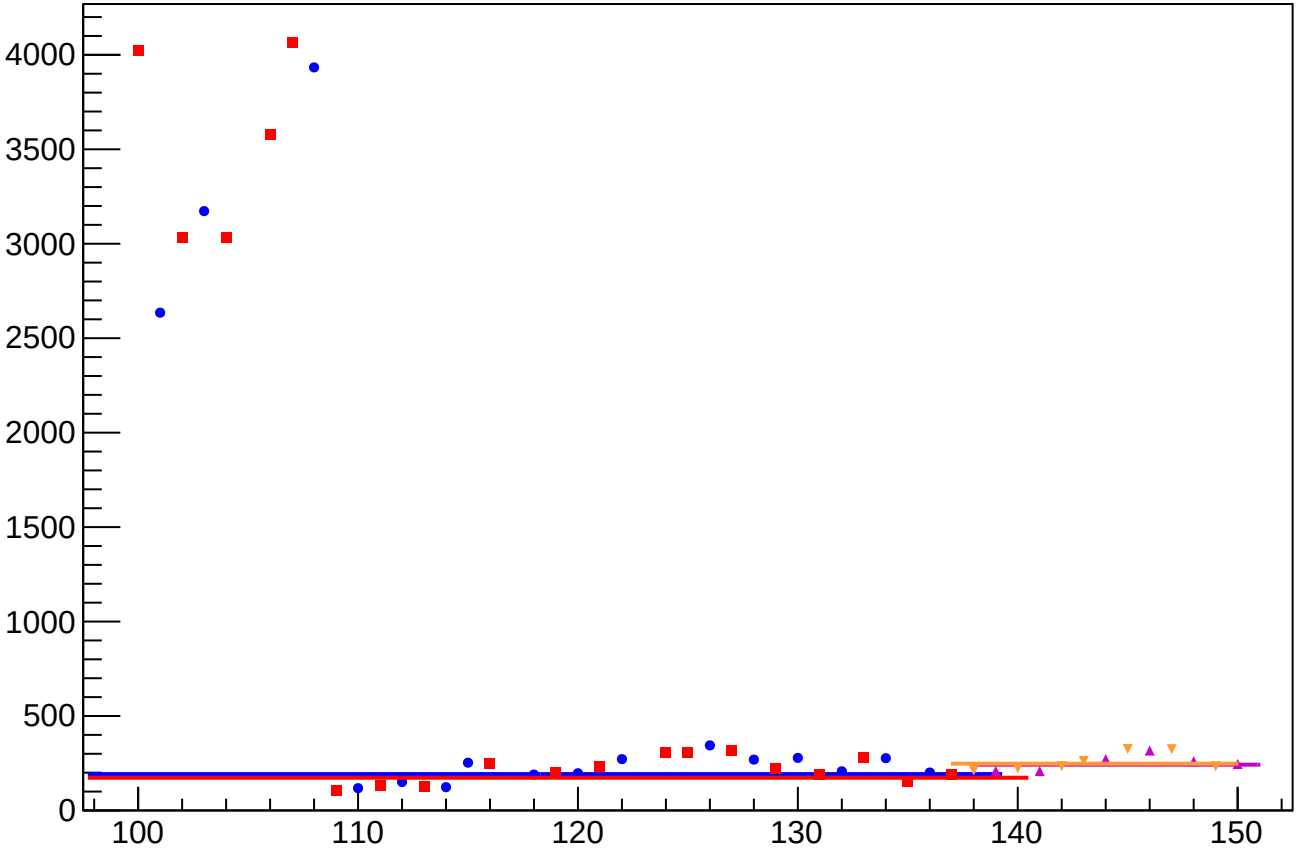
Right: -73.773+/-57.671 $\chi^2$/NDF: 32.2/34

In: 97.579+/-66.767 $\chi^2$/NDF:24.5/21

Out: 20.419+/-63.742 $\chi^2$/NDF:23.9/25

All: 57.211+/-46.105 $\chi^2$/NDF: 49.1/47

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.560+/-0.060 $\chi^2$/NDF: 3822789.1/15

Left Out: 247.700+/-0.077 $\chi^2$/NDF:261633.0/6

Right Out: 173.249+/-0.055 $\chi^2$/NDF: 4307420.2/18

Left In: 242.307+/-0.076 $\chi^2$/NDF:215156.2/5

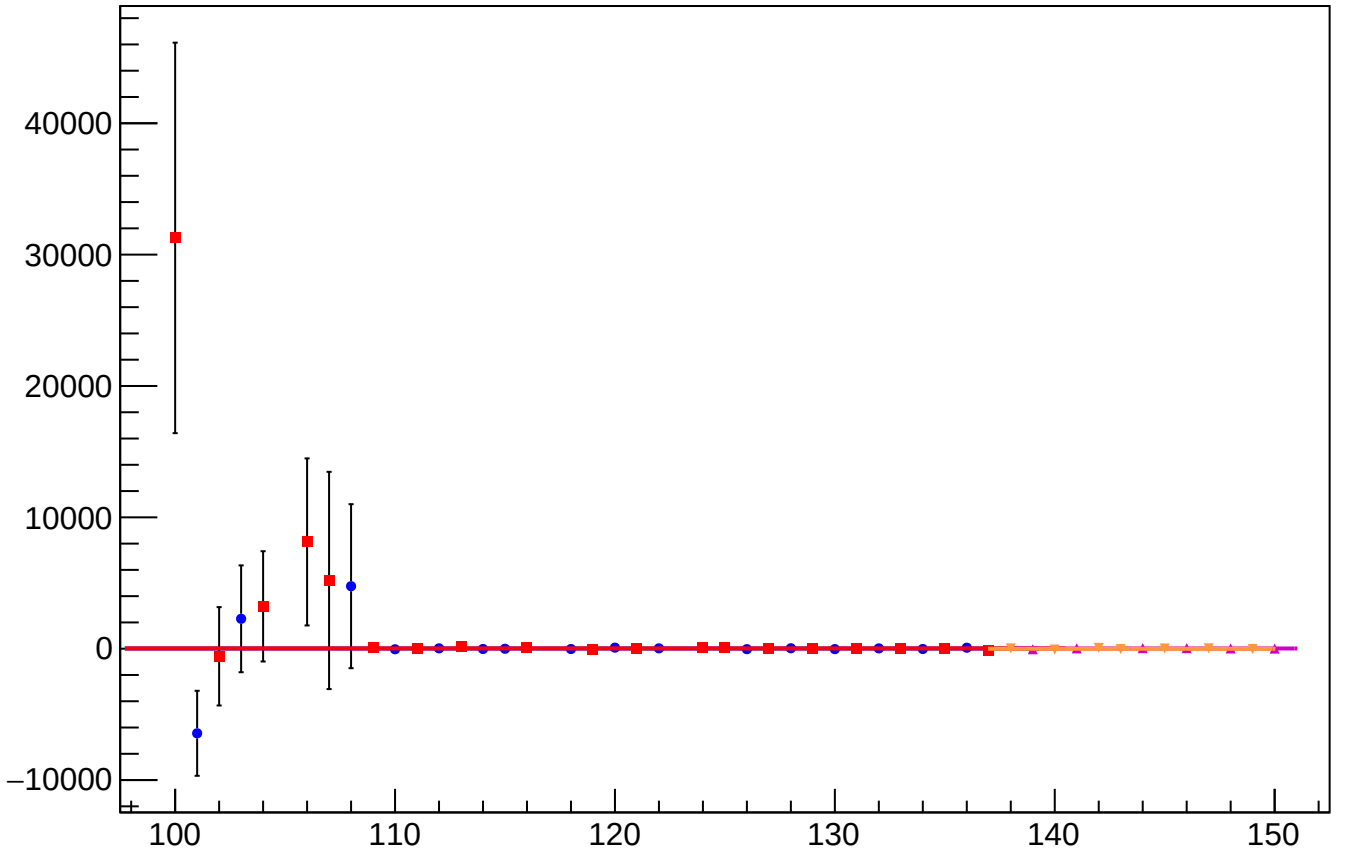
Left: 244.964+/-0.054 $\chi^2$/NDF: 479257.2/12

Right: 182.125+/-0.041 $\chi^2$/NDF: 8185907.1/34

In: 211.659+/-0.047 $\chi^2$/NDF:4300559.2/21

Out: 198.555+/-0.045 $\chi^2$/NDF:5181240.1/25

All: 204.803+/-0.033 $\chi^2$/NDF: 9522101.2/47




Right In: 13.713+/-13.062 $\chi^2$/NDF: 15.5/15

Left Out: -3.630+/-14.043 $\chi^2$/NDF:7.8/6

Right Out: 23.230+/-13.181 $\chi^2$/NDF: 28.7/18

Left In: 17.032+/-13.920 $\chi^2$/NDF:4.4/5

Left: 6.792+/-9.886 $\chi^2$/NDF: 13.3/12

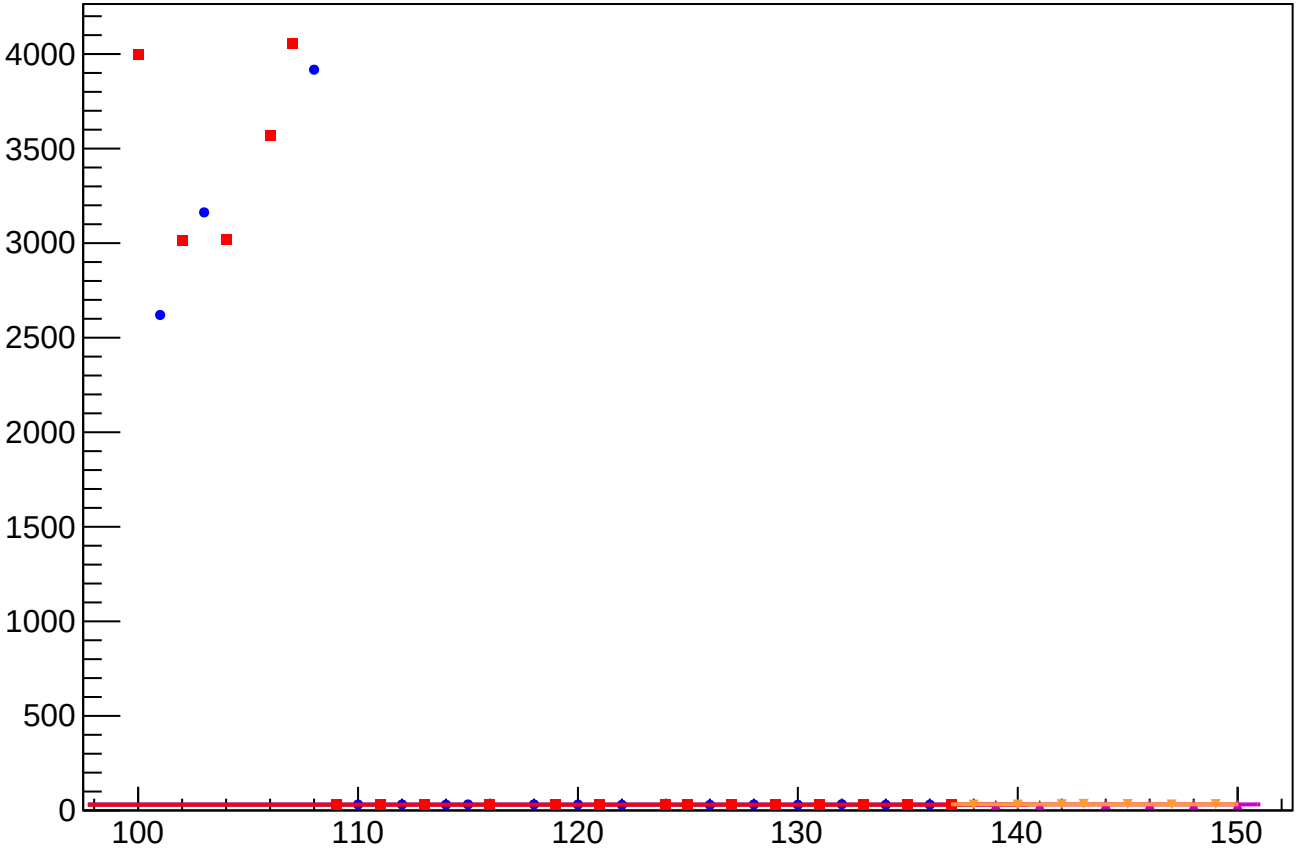
Right: 18.428+/-9.278 $\chi^2$/NDF: 44.4/34

In: 15.267+/-9.525 $\chi^2$/NDF:19.9/21

Out: 10.650+/-9.611 $\chi^2$/NDF:38.4/25

All: 12.979+/-6.765 $\chi^2$/NDF: 58.4/47

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 30.928+/-0.009 $\chi^2$/NDF: 3252607.8/15

Left Out: 32.370+/-0.010 $\chi^2$/NDF:20961.2/6

Right Out: 30.777+/-0.009 $\chi^2$/NDF: 3536234.6/18

Left In: 31.886+/-0.010 $\chi^2$/NDF:22049.5/5

Left: 32.126+/-0.007 $\chi^2$/NDF: 44210.6/12

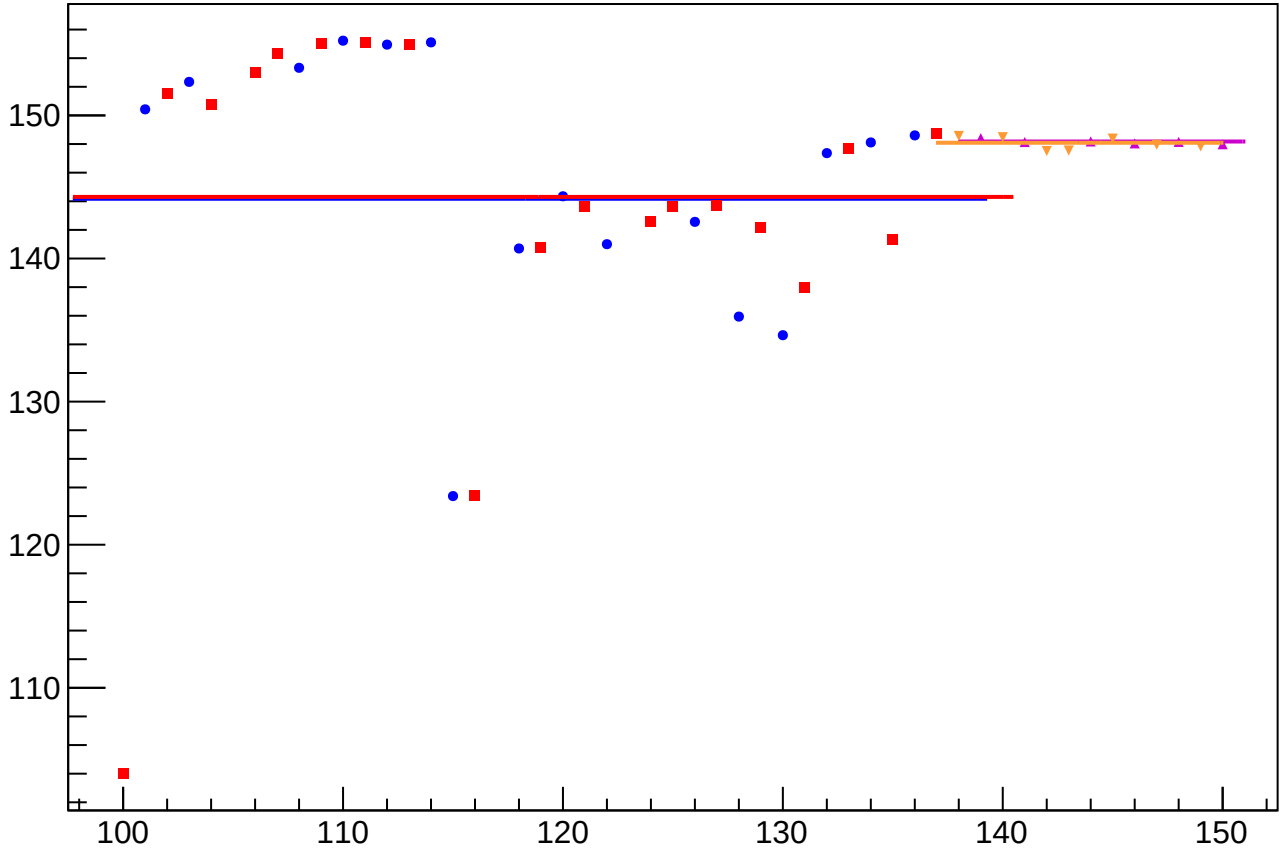
Right: 30.853+/-0.007 $\chi^2$/NDF: 6788975.5/34

In: 31.377+/-0.007 $\chi^2$/NDF:3279691.0/21

Out: 31.523+/-0.007 $\chi^2$/NDF:3570884.8/25

All: 31.449+/-0.005 $\chi^2$/NDF: 6850810.0/47

# yield_bcm_target_mean vs Slug, Sign Corrected




Right In: 144.176+/-0.000 $\chi^2$/NDF: 3724747268.7/15

Left Out: 148.090+/-0.000 $\chi^2$/NDF:8331348.1/6

Right Out: 144.304+/-0.000 $\chi^2$/NDF: 4264494940.7/18

Left In: 148.177+/-0.000 $\chi^2$/NDF:683350.9/5

Left: 148.130+/-0.000 $\chi^2$/NDF: 9173852.1/12

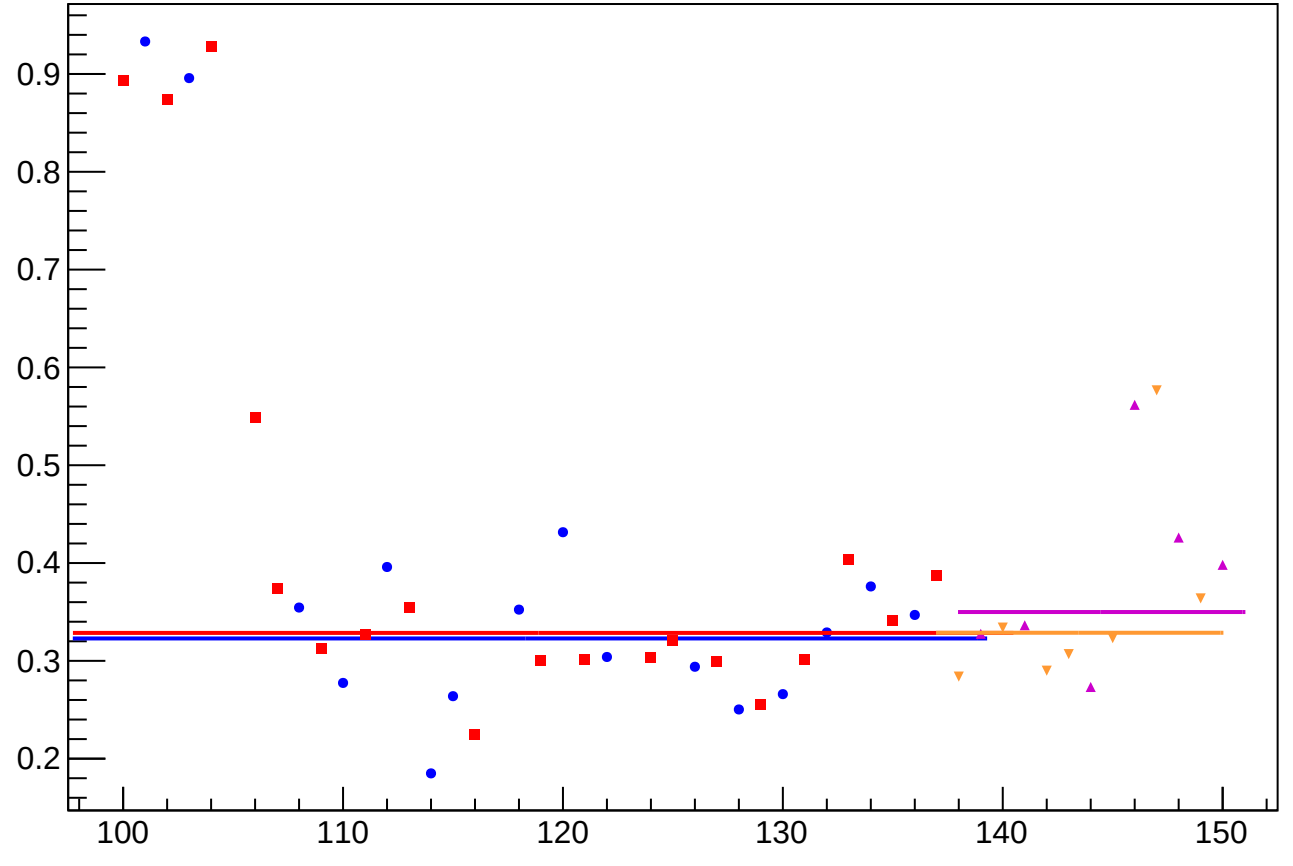
Right: 144.240+/-0.000 $\chi^2$/NDF: 7989709366.0/34

In: 145.805+/-0.000 $\chi^2$/NDF:4097289875.6/21

Out: 145.995+/-0.000 $\chi^2$/NDF:4634129497.8/25

All: 145.903+/-0.000 $\chi^2$/NDF: 8733207061.3

# yield_bcm_target_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.329+/-0.000 $\chi^2$/NDF:361016.1/6

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.350+/-0.000 $\chi^2$/NDF:461199.6/5

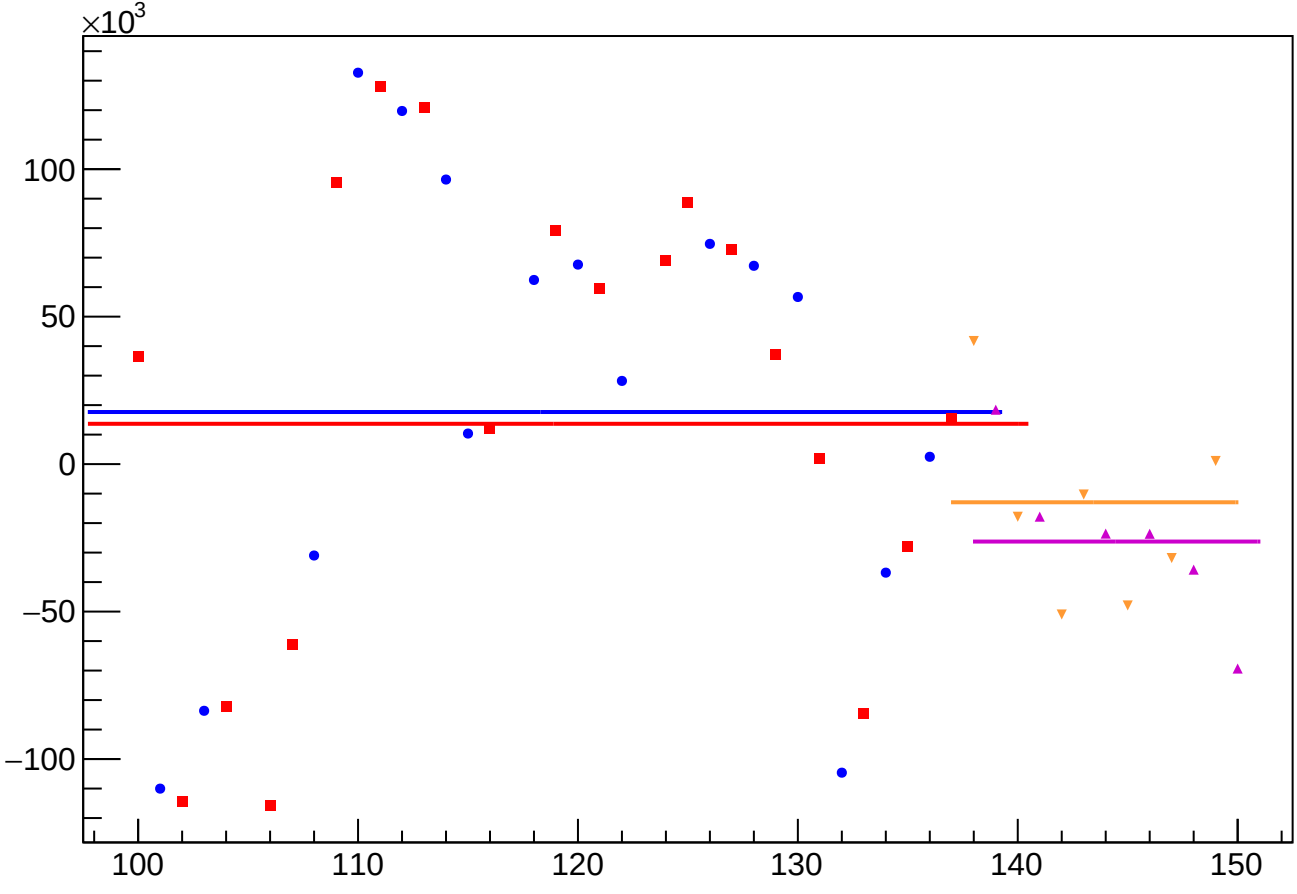
Left: 0.339+/-0.000 $\chi^2$/NDF: 841143.6/12

Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.334+/-0.000 $\chi^2$/NDF:1891166.0/21

Out: 0.329+/-0.000 $\chi^2$/NDF:1665166.0/25

All: 0.331+/-0.000 $\chi^2$/NDF: 3559068.9/47




Right In: 17663.790+/-2.006 $\chi^2$/NDF: 1398738701.8/15

Left Out: -12940.563+/-2.241 $\chi^2$/NDF:184536672.8/6

Right Out: 13666.312+/-1.925 $\chi^2$/NDF: 1856962869.6/18

Left In: -26259.815+/-2.248 $\chi^2$/NDF:151907924.7/5

Left: -19580.511+/-1.587 $\chi^2$/NDF: 354054519.4/12

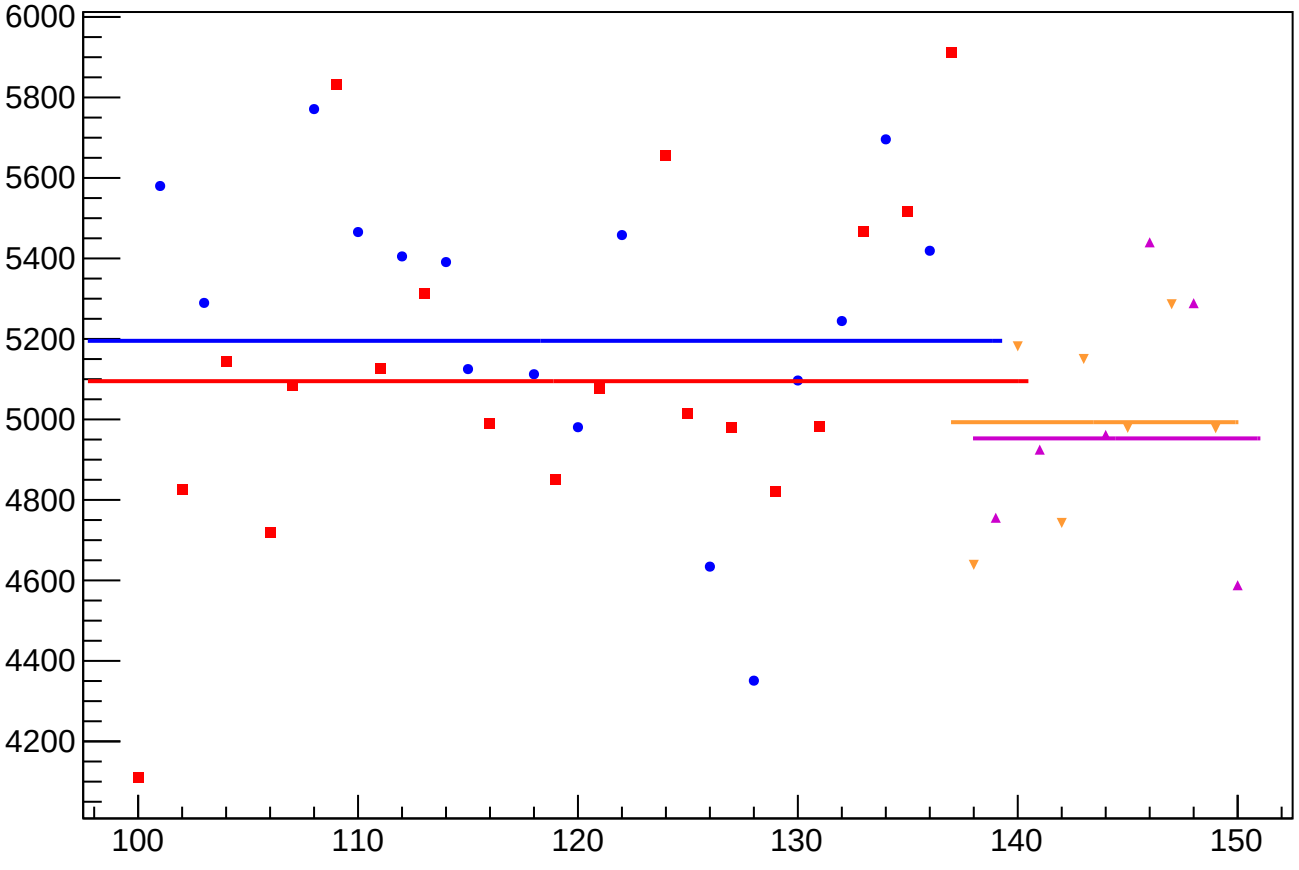
Right: 15583.102+/-1.389 $\chi^2$/NDF: 3257769505.5/3

In: -1805.702+/-1.496 $\chi^2$/NDF:1763262801.0/21

Out: 2370.130+/-1.460 $\chi^2$/NDF:2122614645.1/25

All: 333.369+/-1.045 $\chi^2$/NDF: 3889866391.4

# yield_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 5195.298+/-1.418 $\chi^2$/NDF: 77166.0/15

Left Out: 4993.122+/-1.585 $\chi^2$/NDF:19209.7/6

Right Out: 5095.047+/-1.361 $\chi^2$/NDF: 59112.0/18

Left In: 4952.841+/-1.589 $\chi^2$/NDF:32804.7/5

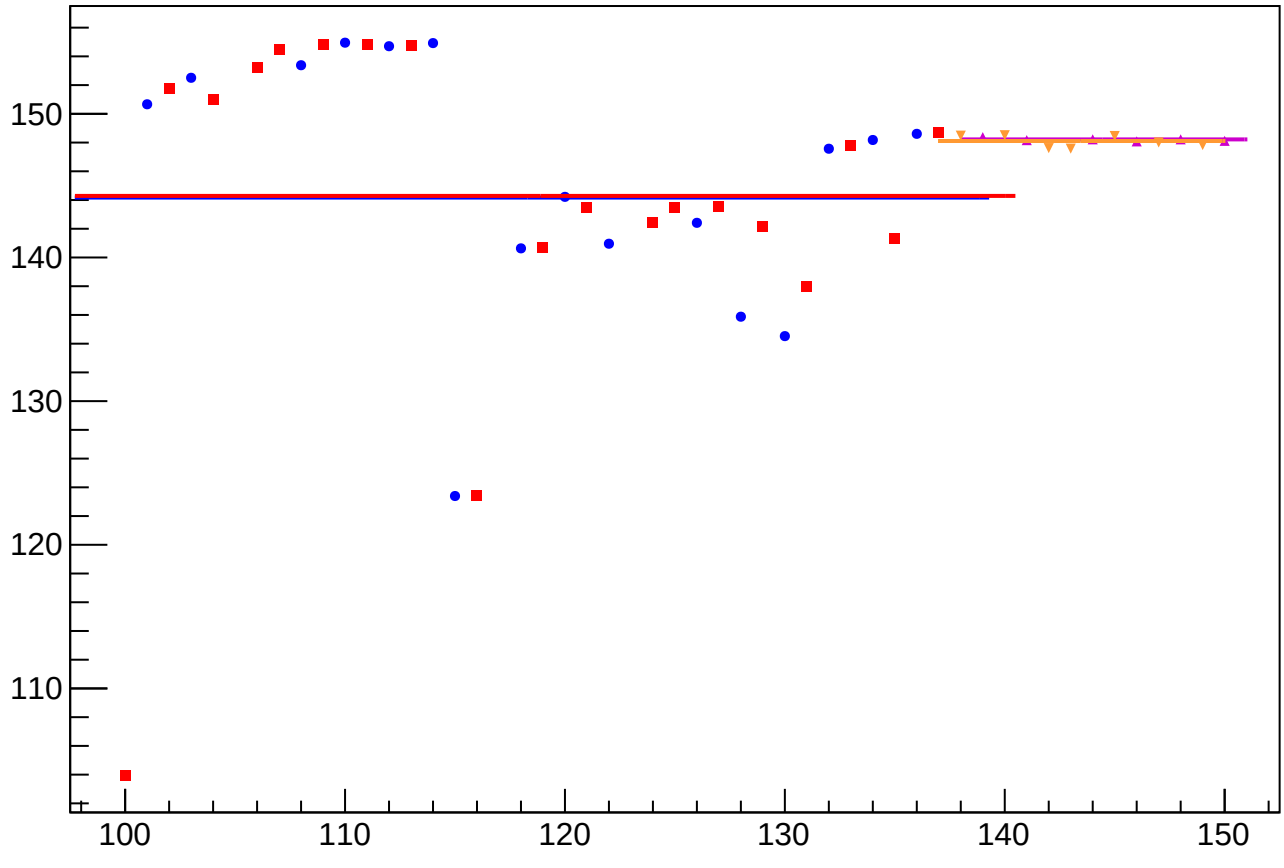
Left: 4973.041+/-1.122 $\chi^2$/NDF: 52336.5/12

Right: 5143.118+/-0.982 $\chi^2$/NDF: 138879.2/34

In: 5087.827+/-1.058 $\chi^2$/NDF:122927.5/21

Out: 5051.774+/-1.033 $\chi^2$/NDF:80702.4/25

All: 5069.359+/-0.739 $\chi^2$/NDF: 204224.6/47




Right In: 144.172+/-0.000 $\chi^2$/NDF: 3764836520.0/15

Left Out: 148.109+/-0.000 $\chi^2$/NDF:7482375.8/6

Right Out: 144.286+/-0.000 $\chi^2$/NDF: 4290223847.7/18

Left In: 148.220+/-0.000 $\chi^2$/NDF:318395.5/5

Left: 148.160+/-0.000 $\chi^2$/NDF: 8062347.4/12

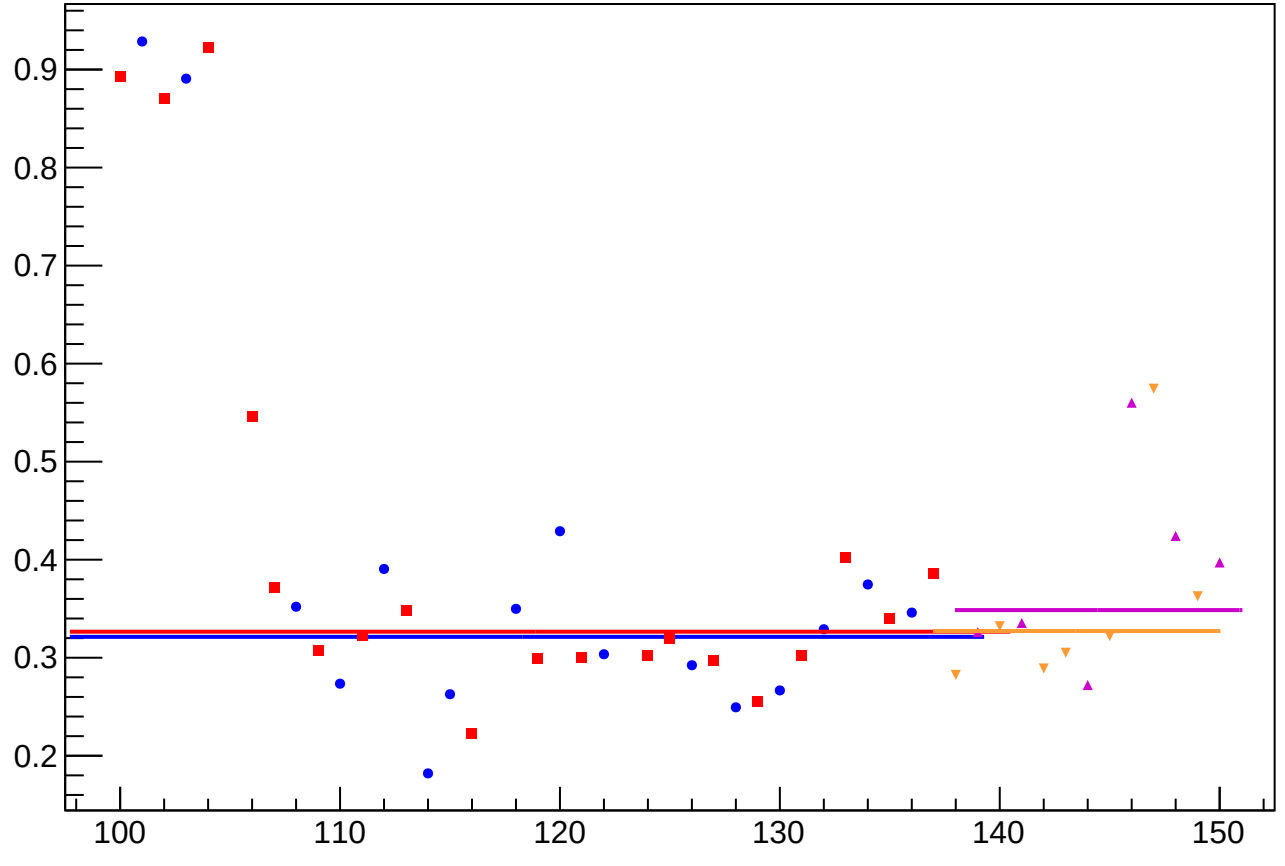
Right: 144.229+/-0.000 $\chi^2$/NDF: 8055437753.5/34

In: 145.817+/-0.000 $\chi^2$/NDF:4149044814.9/21

Out: 145.991+/-0.000 $\chi^2$/NDF:4669950978.3/25

All: 145.907+/-0.000 $\chi^2$/NDF: 8820507548.6

# yield_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 0.321+/-0.000 $\chi^2$/NDF: 1396250.7/15

Left Out: 0.327+/-0.000 $\chi^2$/NDF:362291.5/6

Right Out: 0.327+/-0.000 $\chi^2$/NDF: 1302732.4/18

Left In: 0.349+/-0.000 $\chi^2$/NDF:462673.4/5

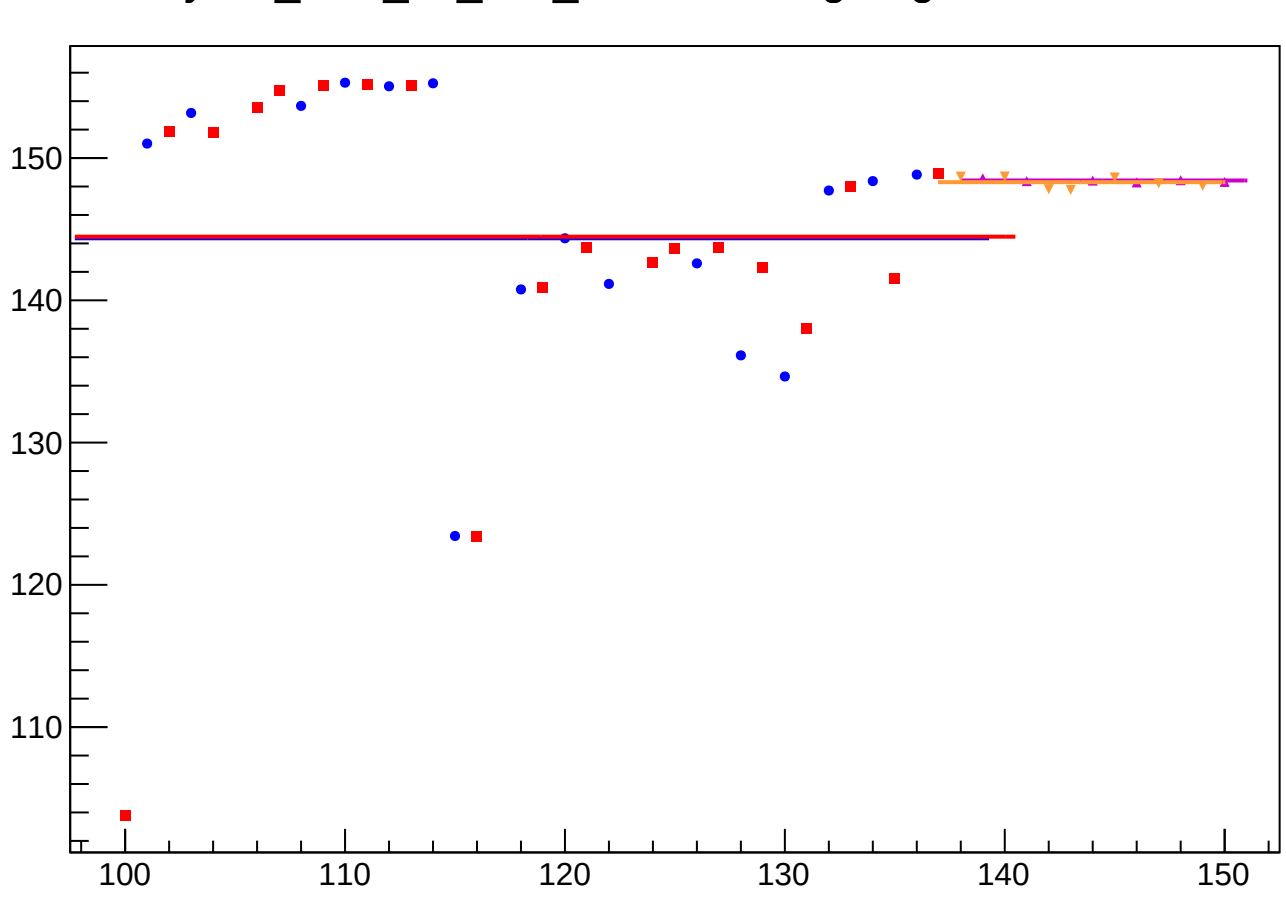
Left: 0.337+/-0.000 $\chi^2$/NDF: 844427.7/12

Right: 0.324+/-0.000 $\chi^2$/NDF: 2700575.6/34

In: 0.332+/-0.000 $\chi^2$/NDF:1893872.1/21

Out: 0.327+/-0.000 $\chi^2$/NDF:1665044.6/25

All: 0.330+/-0.000 $\chi^2$/NDF: 3561995.5/47




Right In: 144.361+/-0.000 $\chi^2$/NDF: 3758625293.6/15

Left Out: 148.305+/-0.000 $\chi^2$/NDF:7415384.4/6

Right Out: 144.475+/-0.000 $\chi^2$/NDF: 4281975463.8/18

Left In: 148.425+/-0.000 $\chi^2$/NDF:303119.8/5

Left: 148.360+/-0.000 $\chi^2$/NDF: 8020854.2/12

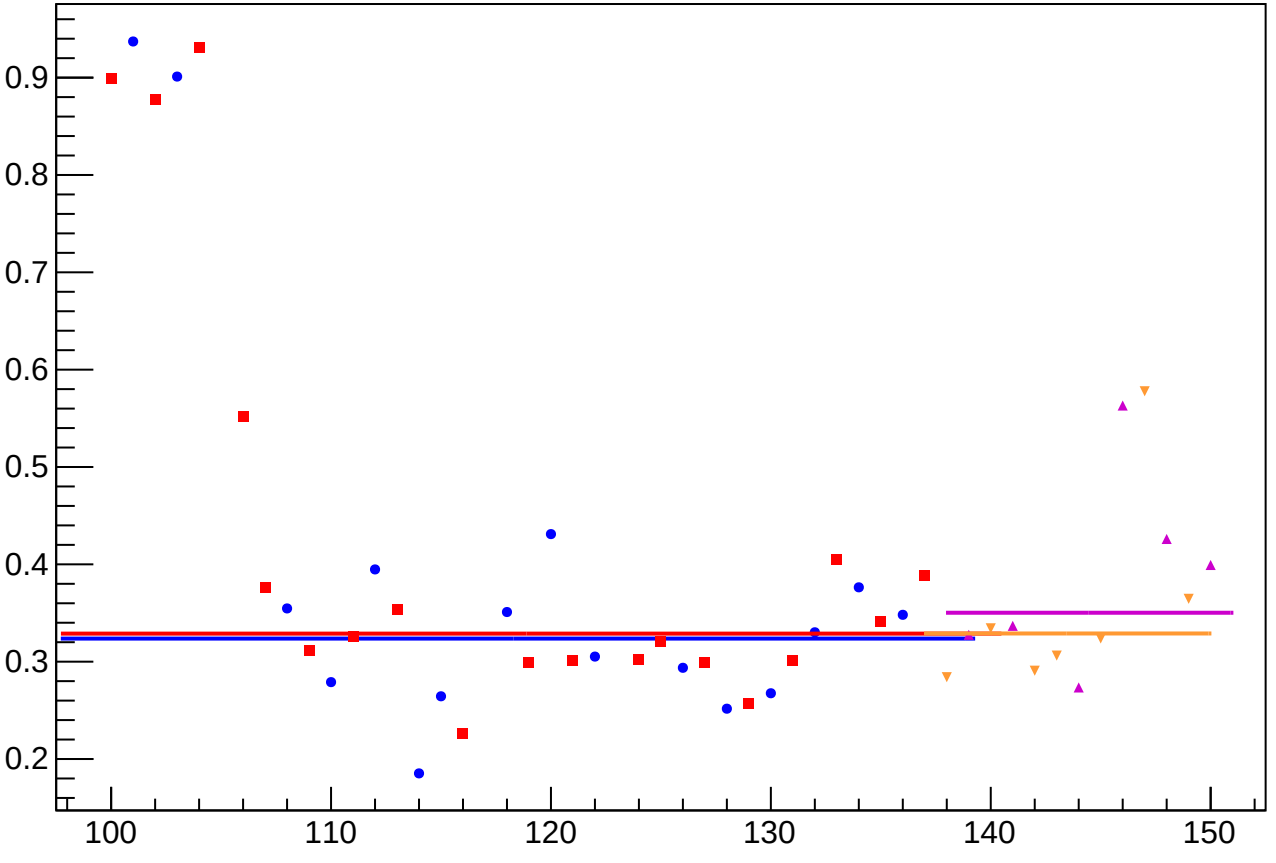
Right: 144.417+/-0.000 $\chi^2$/NDF: 8040967165.8/34

In: 146.017+/-0.000 $\chi^2$/NDF:4141338501.2/21

Out: 146.185+/-0.000 $\chi^2$/NDF:4658687766.7/25

All: 146.104+/-0.000 $\chi^2$/NDF: 8801421619.5

# yield_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 0.324+/-0.000 $\chi^2$/NDF: 1392377.9/15

Left Out: 0.329+/-0.000 $\chi^2$/NDF:362677.1/6

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1303222.2/18

Left In: 0.350+/-0.000 $\chi^2$/NDF:462825.6/5

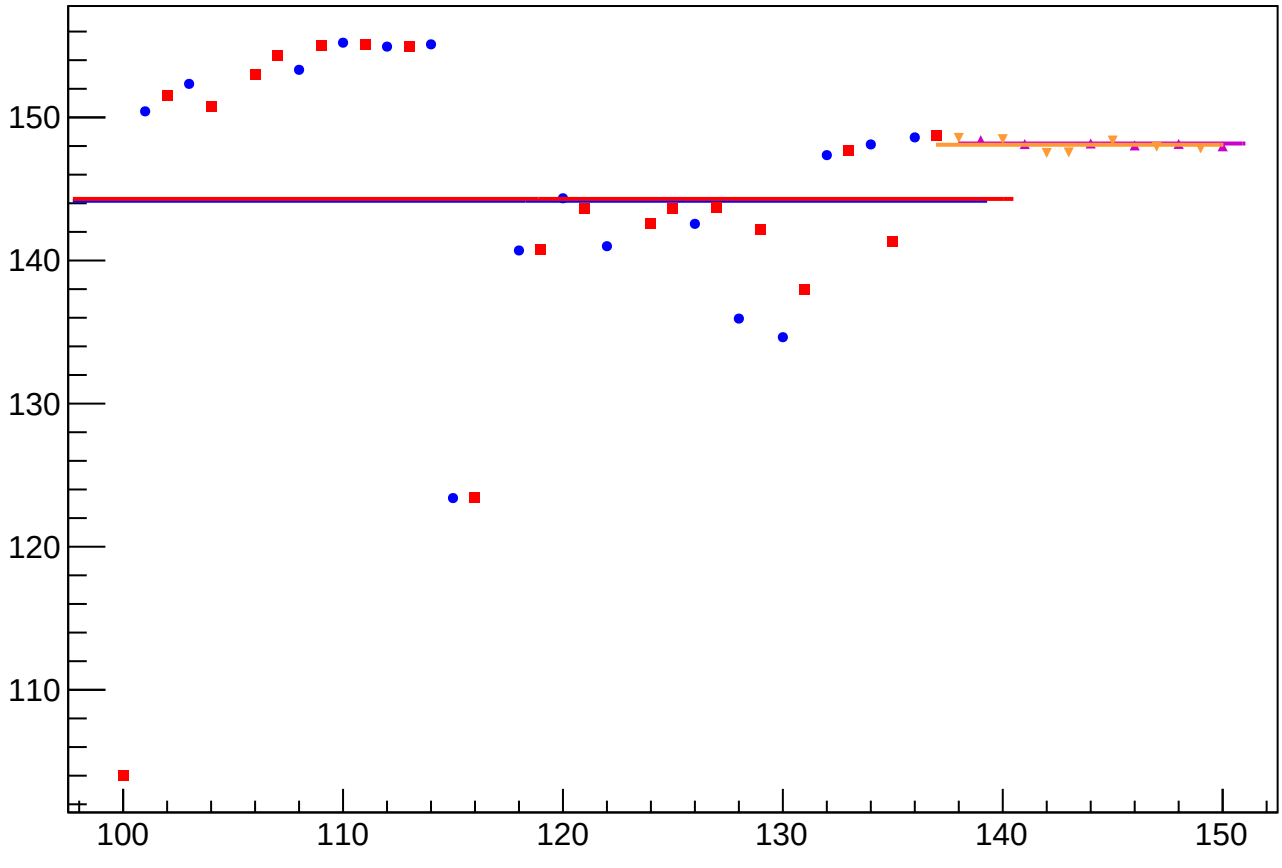
Left: 0.339+/-0.000 $\chi^2$/NDF: 844583.1/12

Right: 0.326+/-0.000 $\chi^2$/NDF: 2697075.5/34

In: 0.335+/-0.000 $\chi^2$/NDF:1887853.8/21

Out: 0.329+/-0.000 $\chi^2$/NDF:1665900.3/25

All: 0.332+/-0.000 $\chi^2$/NDF: 3556909.8/47




Right In: 144.176+/-0.000 $\chi^2$/NDF: 3724747268.7/15

Left Out: 148.090+/-0.000 $\chi^2$/NDF:8331348.1/6

Right Out: 144.304+/-0.000 $\chi^2$/NDF: 4264494940.7/18

Left In: 148.177+/-0.000 $\chi^2$/NDF:683350.9/5

Left: 148.130+/-0.000 $\chi^2$/NDF: 9173852.1/12

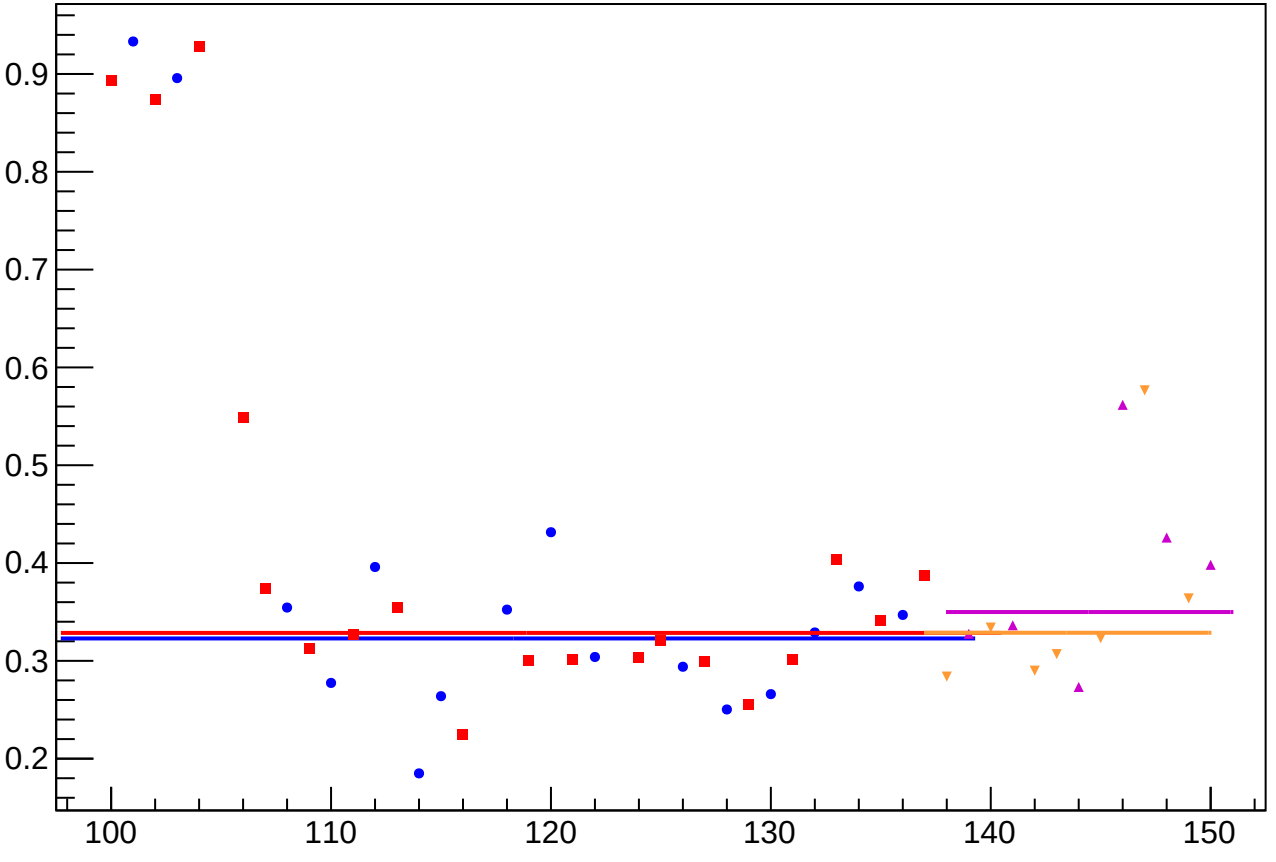
Right: 144.240+/-0.000 $\chi^2$/NDF: 7989709366.0/34

In: 145.805+/-0.000 $\chi^2$/NDF:4097289875.6/21

Out: 145.995+/-0.000 $\chi^2$/NDF:4634129497.8/25

All: 145.903+/-0.000 $\chi^2$/NDF: 8733207061.3

# yield_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.329+/-0.000 $\chi^2$/NDF:361016.1/6

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.350+/-0.000 $\chi^2$/NDF:461199.6/5

Left: 0.339+/-0.000 $\chi^2$/NDF: 841143.6/12

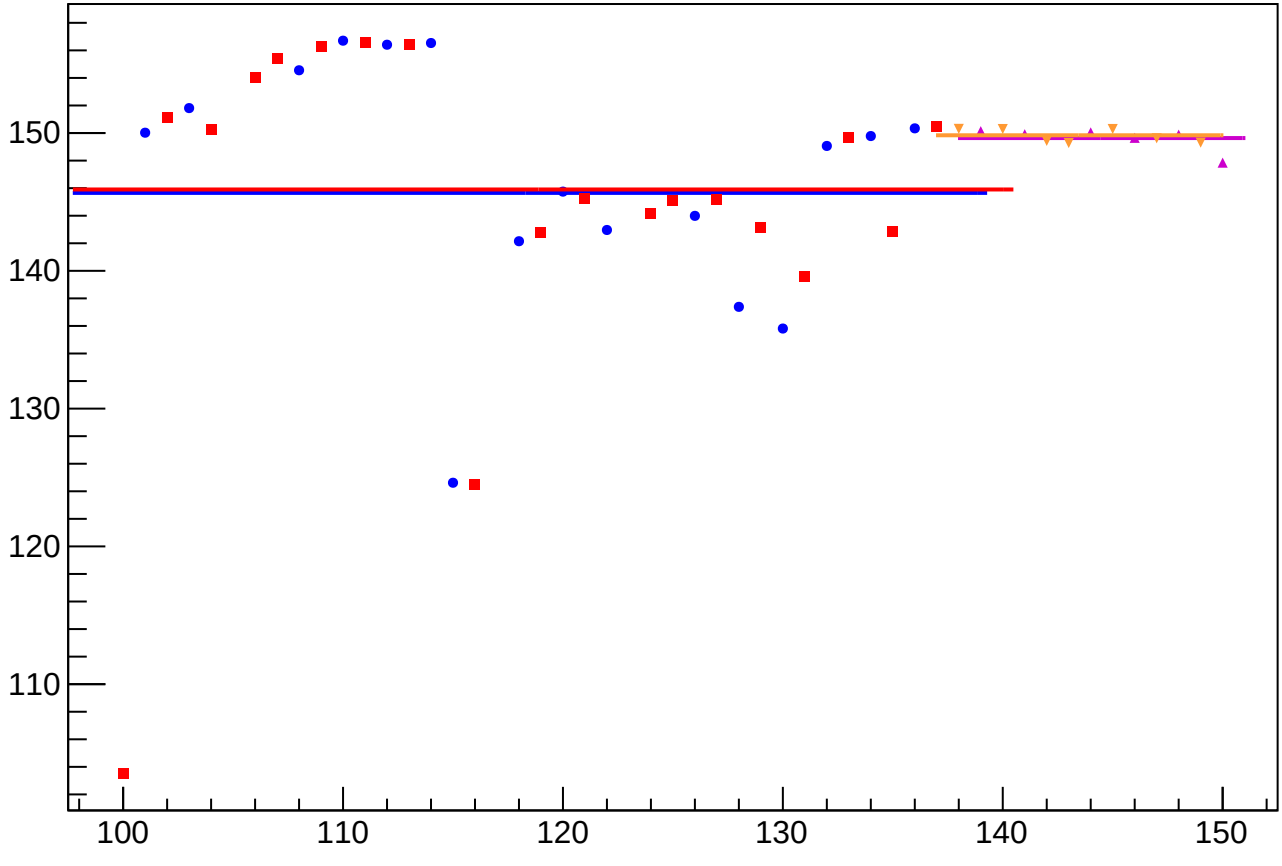
Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.334+/-0.000 $\chi^2$/NDF:1891166.0/21

Out: 0.329+/-0.000 $\chi^2$/NDF:1665166.0/25

All: 0.331+/-0.000 $\chi^2$/NDF: 3559068.9/47

# yield_bcm_dg_us_mean vs Slug, Sign Corrected




Right In: 145.657+/-0.000 $\chi^2$/NDF: 3481495345.2/15

Left Out: 149.838+/-0.000 $\chi^2$/NDF:8942416.5/6

Right Out: 145.904+/-0.000 $\chi^2$/NDF: 3863011865.2/18

Left In: 149.636+/-0.000 $\chi^2$/NDF:21937505.9/5

Left: 149.744+/-0.000 $\chi^2$/NDF: 31630078.7/12

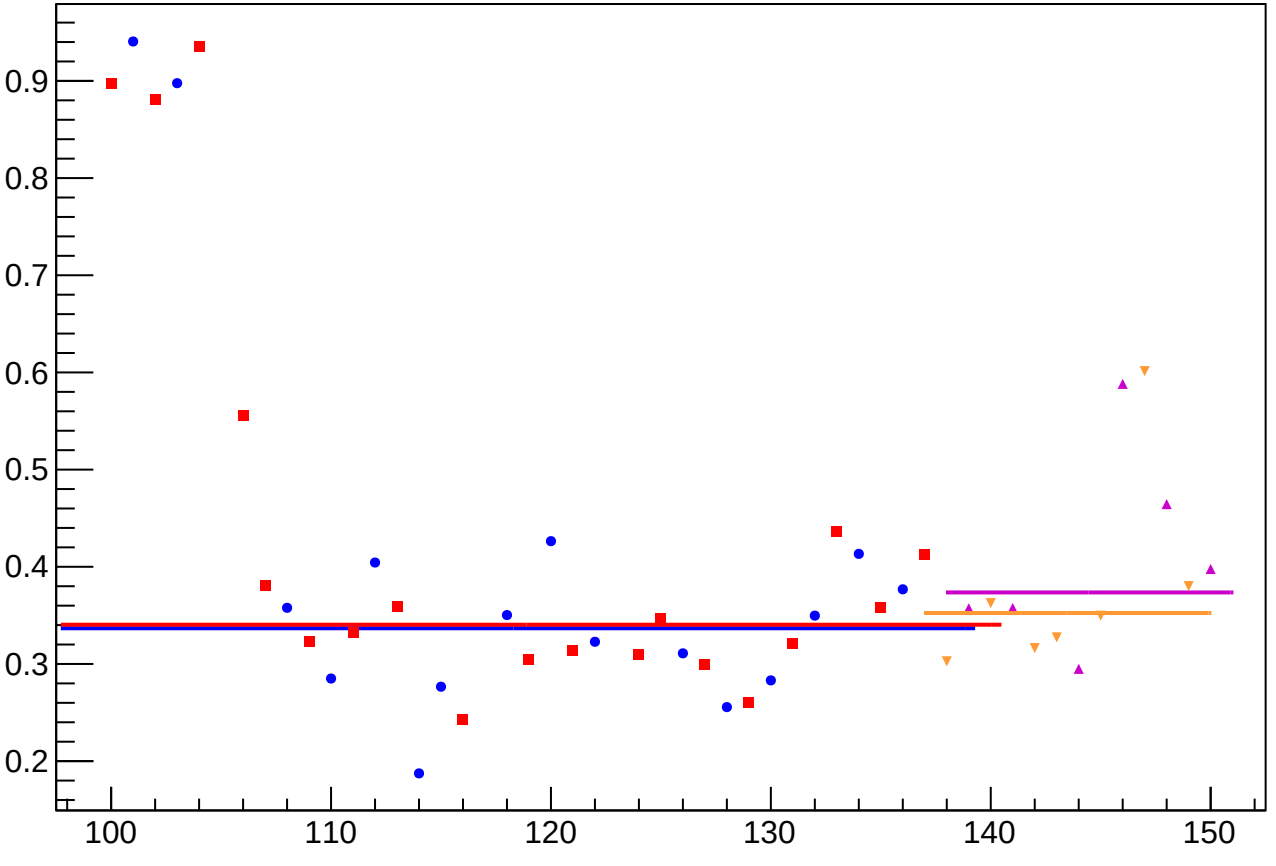
Right: 145.781+/-0.000 $\chi^2$/NDF: 7346117767.9/34

In: 147.236+/-0.000 $\chi^2$/NDF:3832937827.4/21

Out: 147.589+/-0.000 $\chi^2$/NDF:4220447178.4/25

All: 147.418+/-0.000 $\chi^2$/NDF: 8058976819.4

# yield_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 0.337+/-0.000 $\chi^2$/NDF: 1370512.1/15

Left Out: 0.352+/-0.000 $\chi^2$/NDF:332678.9/6

Right Out: 0.340+/-0.000 $\chi^2$/NDF: 1274717.4/18

Left In: 0.374+/-0.000 $\chi^2$/NDF:418589.2/5

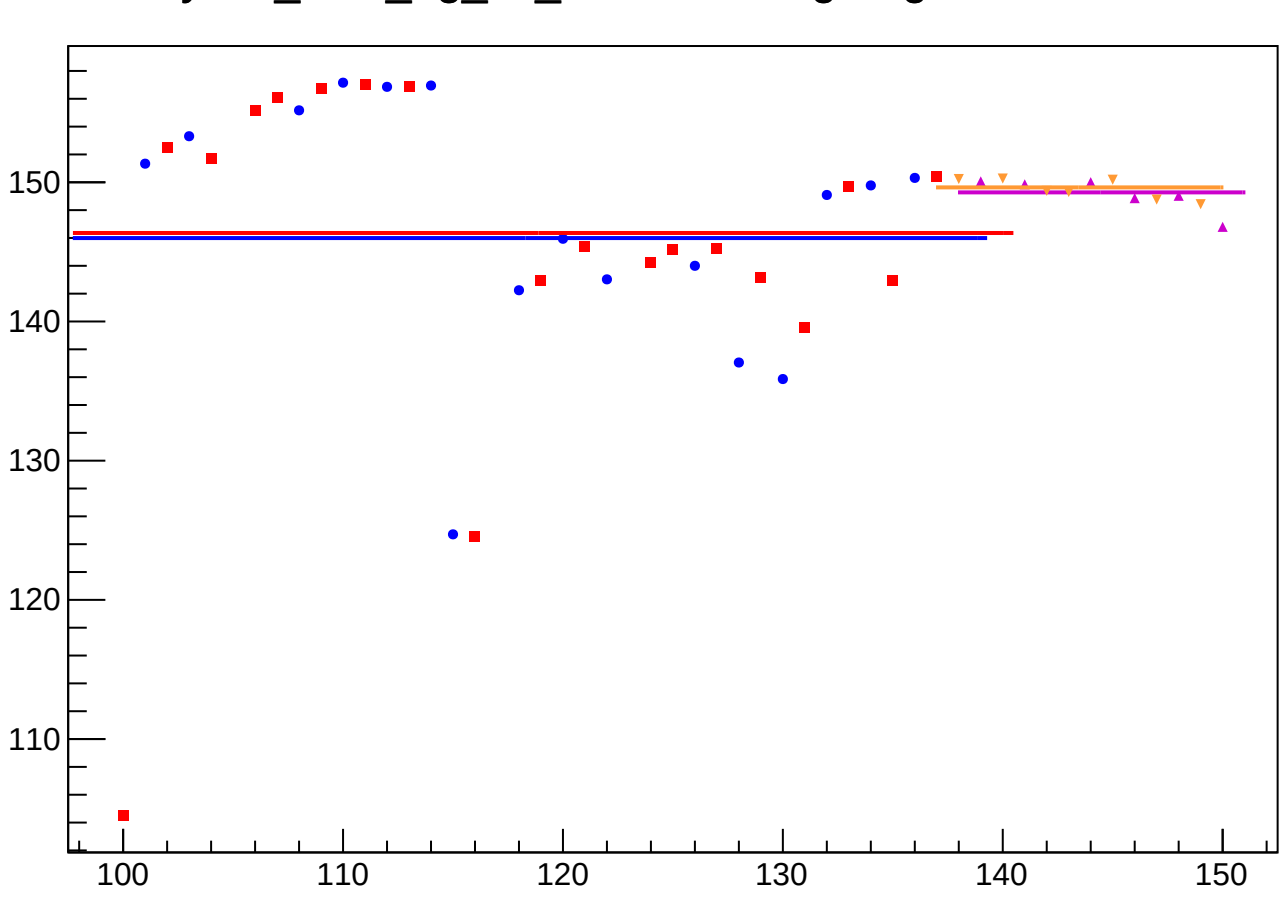
Left: 0.362+/-0.000 $\chi^2$/NDF: 767739.4/12

Right: 0.339+/-0.000 $\chi^2$/NDF: 2645924.6/34

In: 0.351+/-0.000 $\chi^2$/NDF:1845624.4/21

Out: 0.346+/-0.000 $\chi^2$/NDF:1613941.4/25

All: 0.348+/-0.000 $\chi^2$/NDF: 3462594.4/47




Right In: 145.993+/-0.000 $\chi^2$/NDF: 3621634656.4/15

Left Out: 149.633+/-0.000 $\chi^2$/NDF:18306913.9/6

Right Out: 146.358+/-0.000 $\chi^2$/NDF: 3963122316.1/18

Left In: 149.275+/-0.000 $\chi^2$/NDF:46390761.7/5

Left: 149.467+/-0.000 $\chi^2$/NDF: 67040663.5/12

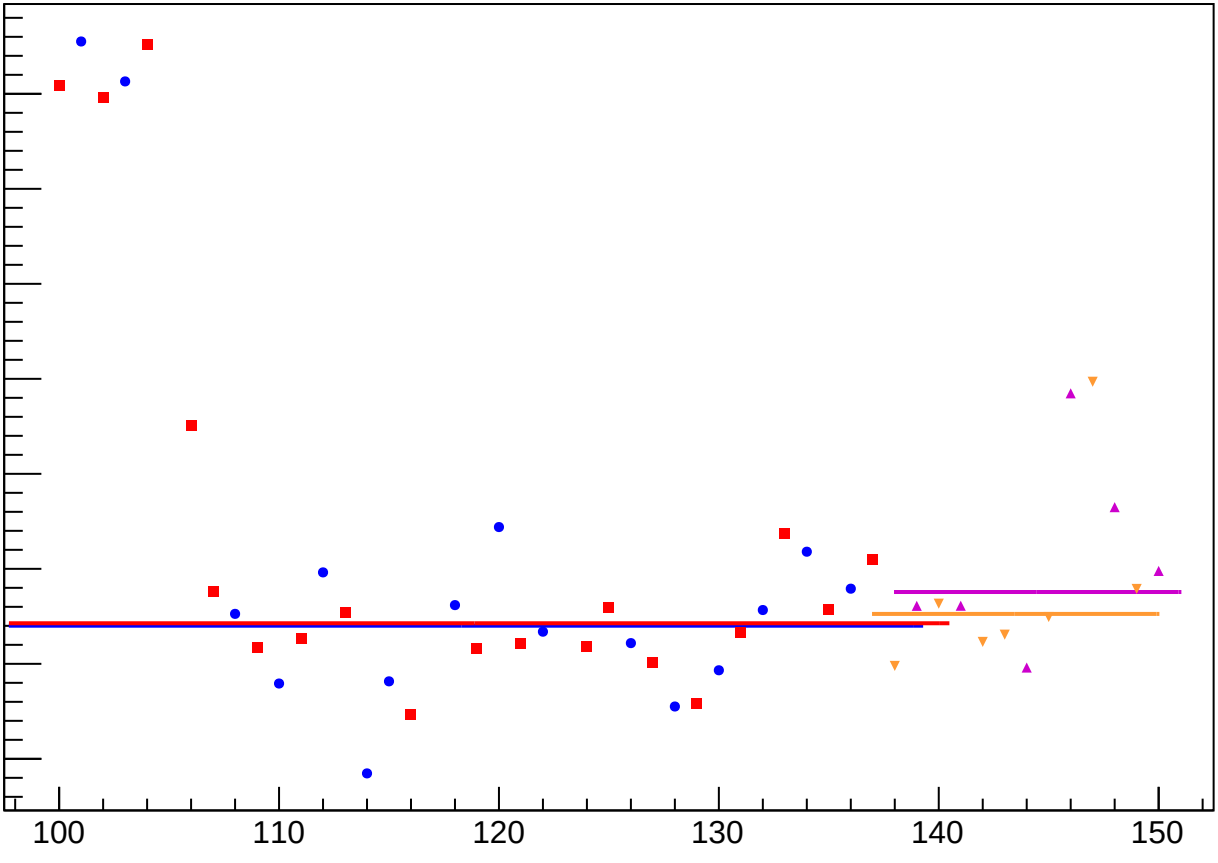
Right: 146.176+/-0.000 $\chi^2$/NDF: 7588198619.6/34

In: 147.304+/-0.000 $\chi^2$/NDF:3888498271.6/21

Out: 147.771+/-0.000 $\chi^2$/NDF:4220734719.9/25

All: 147.545+/-0.000 $\chi^2$/NDF: 8118832107.2

# yield_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 0.340+/-0.000 $\chi^2$/NDF: 1393222.3/15

Left Out: 0.353+/-0.000 $\chi^2$/NDF:329513.8/6

Right Out: 0.343+/-0.000 $\chi^2$/NDF: 1270731.2/18

Left In: 0.376+/-0.000 $\chi^2$/NDF:405871.2/5

Left: 0.363+/-0.000 $\chi^2$/NDF: 754787.1/12

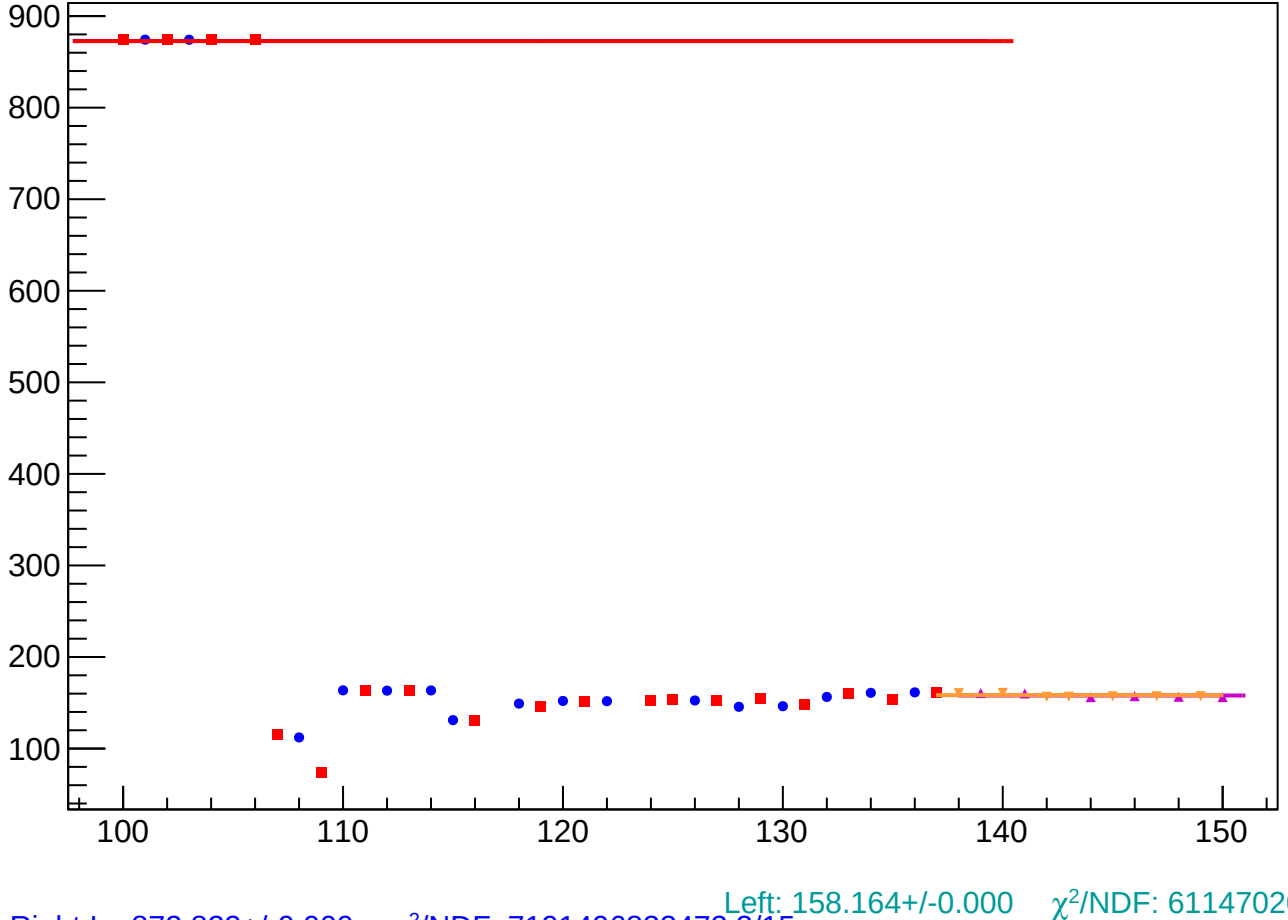
Right: 0.341+/-0.000 $\chi^2$/NDF: 2664290.2/34

In: 0.354+/-0.000 $\chi^2$/NDF:1850535.2/21

Out: 0.347+/-0.000 $\chi^2$/NDF:1604556.1/25

All: 0.351+/-0.000 $\chi^2$/NDF: 3459866.4/47

# yield_cav4bQ_mean vs Slug, Sign Corrected




Right In: 872.822+/-0.000 $\chi^2$/NDF: 7191496833472.3/15

Left Out: 158.342+/-0.000 $\chi^2$/NDF:28927201.7/6

Right Out: 872.676+/-0.000 $\chi^2$/NDF: 9167298490018.9/18

Left In: 157.973+/-0.000 $\chi^2$/NDF:31642997.8/5

Left: 158.164+/-0.000 $\chi^2$/NDF: 61147020.0/12

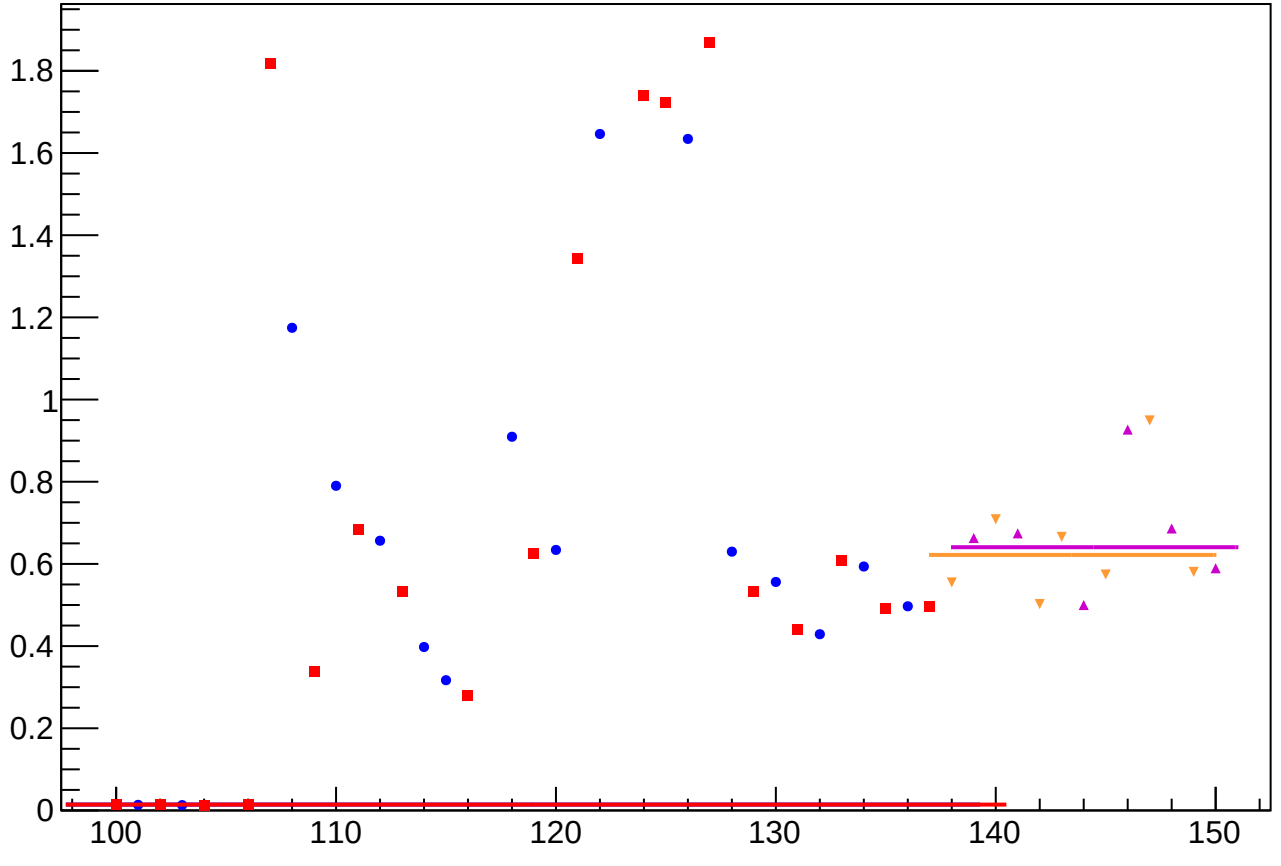
Right: 872.744+/-0.000 $\chi^2$/NDF: 16358876765227.4

In: 872.000+/-0.000 $\chi^2$/NDF:11376562617411.5/2

Out: 871.913+/-0.000 $\chi^2$/NDF:13638394349470.2

All: 871.954+/-0.000 $\chi^2$/NDF: 250149857922

# yield_cav4bQ_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 9622176.3/15

Left Out: 0.622+/-0.000 $\chi^2$/NDF:211108.1/6

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 9410025.7/18

Left In: 0.641+/-0.000 $\chi^2$/NDF:200386.4/5

Left: 0.631+/-0.000 $\chi^2$/NDF: 414474.8/12

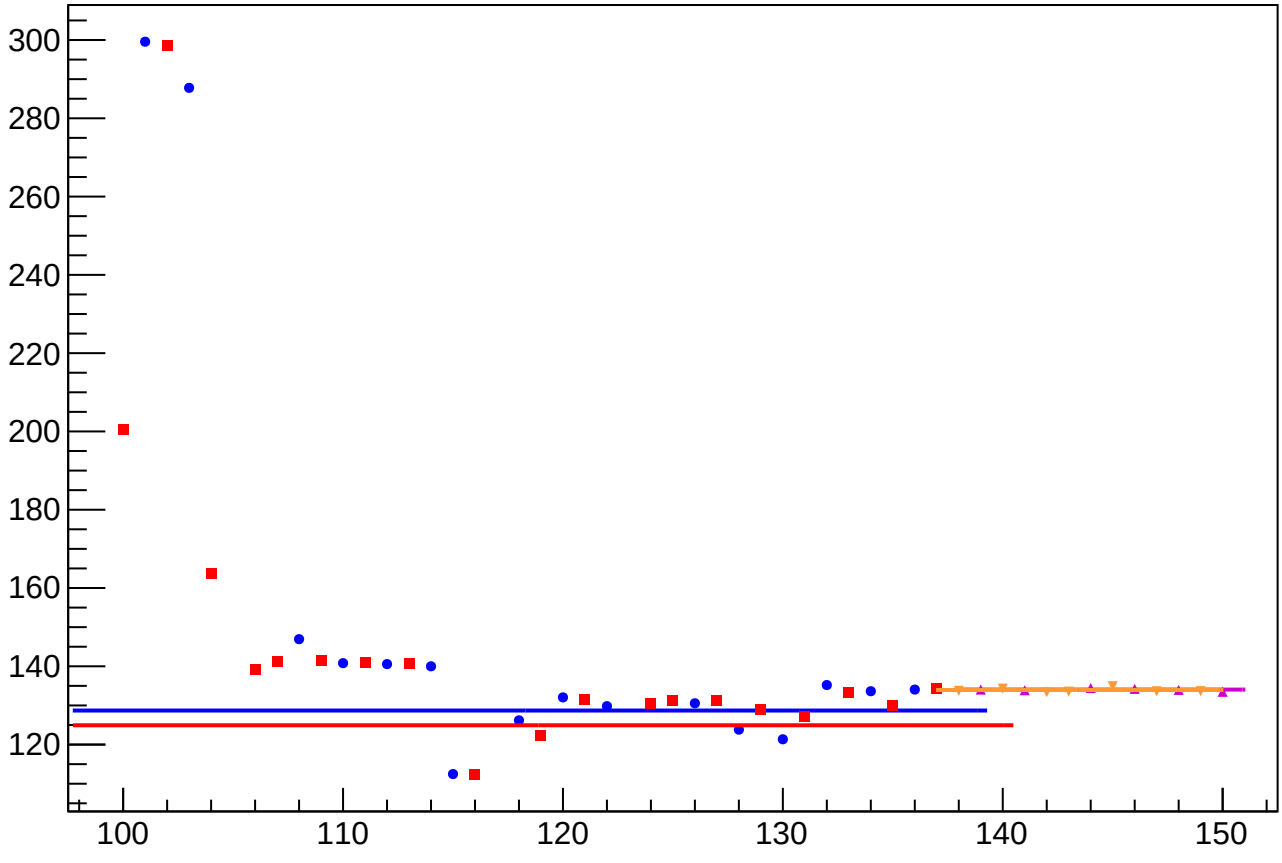
Right: 0.014+/-0.000 $\chi^2$/NDF: 19032353.5/34

In: 0.015+/-0.000 $\chi^2$/NDF:16246982.3/21

Out: 0.015+/-0.000 $\chi^2$/NDF:16092103.2/25

All: 0.015+/-0.000 $\chi^2$/NDF: 32339429.6/47

# yield_cav4cQ_mean vs Slug, Sign Corrected




Right In: 128.701+/-0.000 $\chi^2$/NDF: 1656162604.0/15

Left Out: 133.942+/-0.000 $\chi^2$/NDF:6537242.5/6

Right Out: 124.935+/-0.000 $\chi^2$/NDF: 1397923053.7/18

Left In: 134.050+/-0.000 $\chi^2$/NDF:2021763.5/5

Left: 133.991+/-0.000 $\chi^2$/NDF: 8668827.6/12

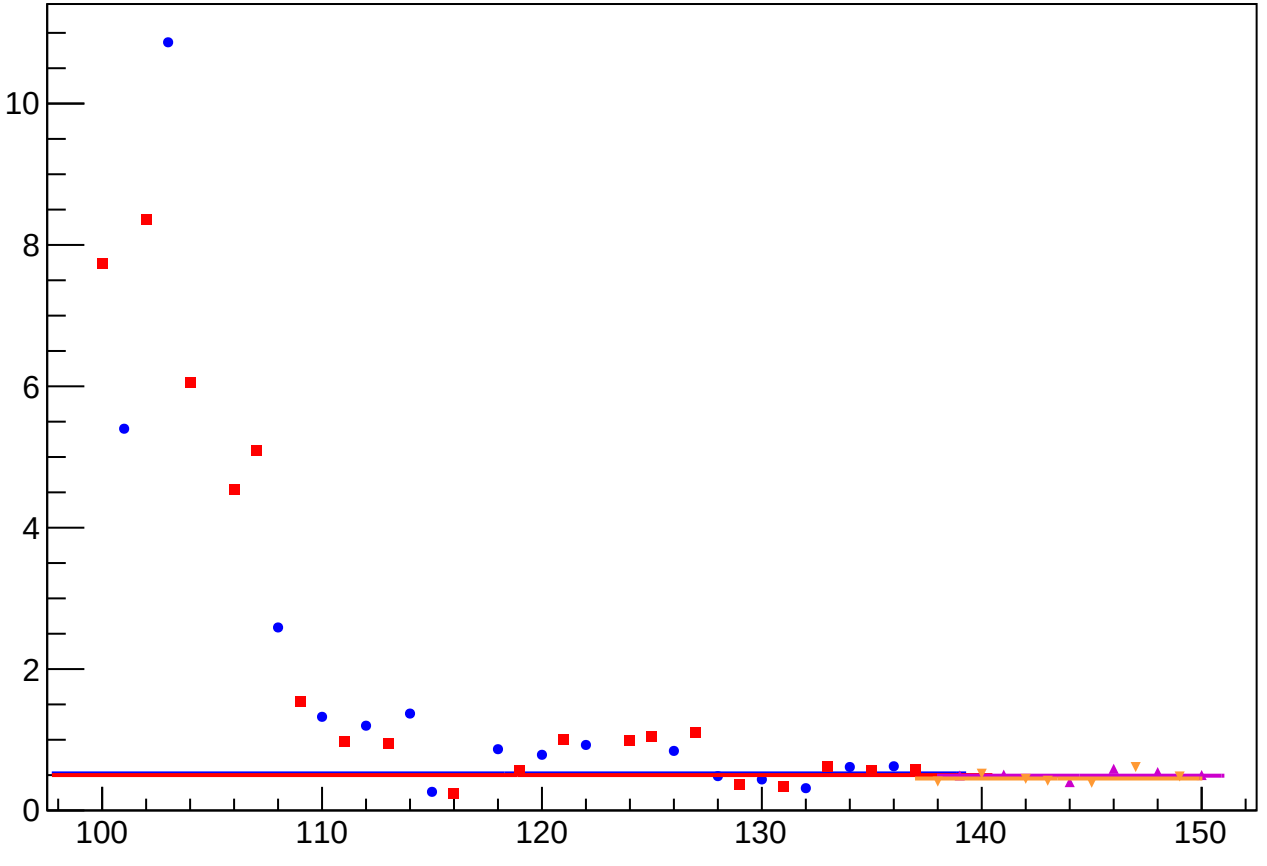
Right: 126.772+/-0.000 $\chi^2$/NDF: 3151132983.0/34

In: 131.726+/-0.000 $\chi^2$/NDF:1874490310.2/21

Out: 130.296+/-0.000 $\chi^2$/NDF:2081840113.2/25

All: 130.968+/-0.000 $\chi^2$/NDF: 3989666275.3

# yield_cav4cQ_rms vs Slug, Sign Corrected




Right In: 0.524+/-0.000 $\chi^2$/NDF: 4138409.3/15

Left Out: 0.452+/-0.000 $\chi^2$/NDF:180223.9/6

Right Out: 0.501+/-0.000 $\chi^2$/NDF: 4884137.3/18

Left In: 0.492+/-0.000 $\chi^2$/NDF:142084.8/5

Left: 0.470+/-0.000 $\chi^2$/NDF: 352314.6/12

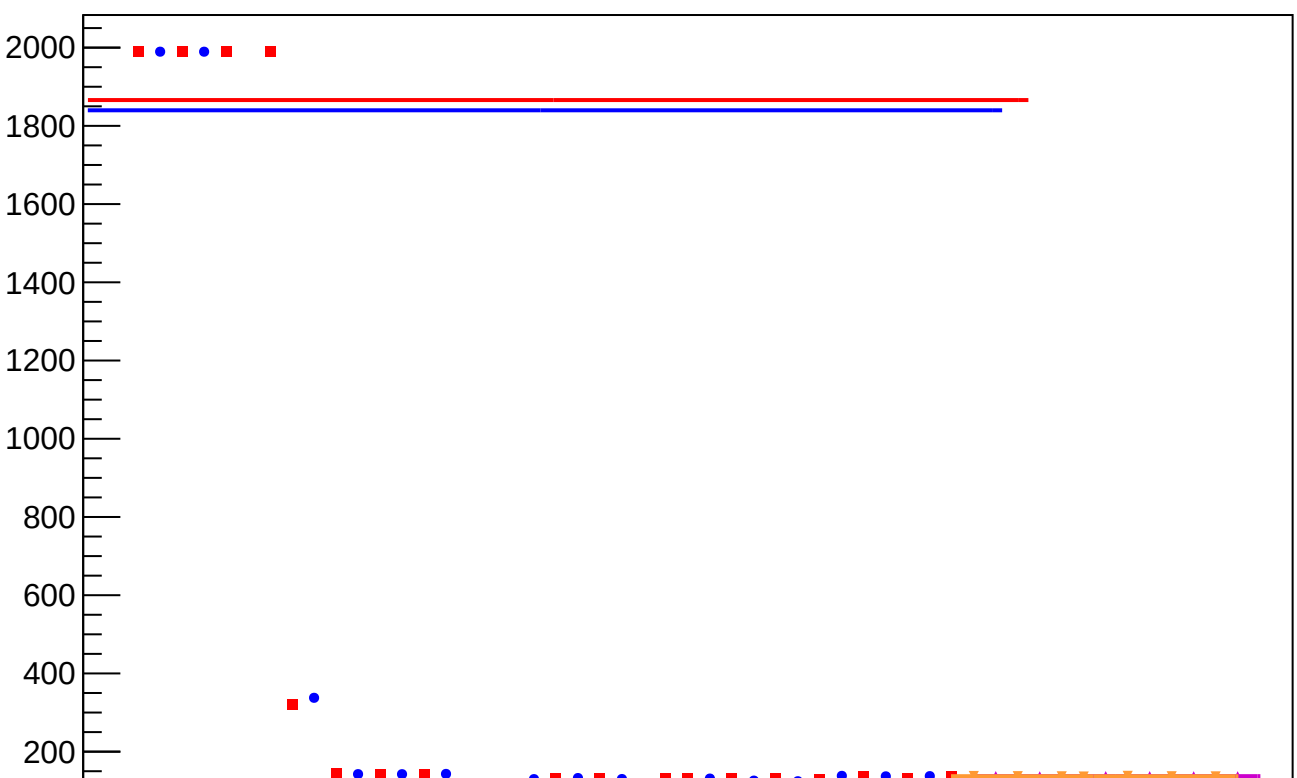
Right: 0.512+/-0.000 $\chi^2$/NDF: 9030118.3/34

In: 0.506+/-0.000 $\chi^2$/NDF:4296201.5/21

Out: 0.472+/-0.000 $\chi^2$/NDF:5103779.3/25

All: 0.488+/-0.000 $\chi^2$/NDF: 9438114.9/47

# yield_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1839.782+/-0.000 $\chi^2$/NDF: 145916014549797.4/15

Left Out: 137.263+/-0.000 $\chi^2$/NDF:14113675.7/6

Right Out: 1865.968+/-0.000 $\chi^2$/NDF: 142769122276045.8/18

Left In: 137.363+/-0.000 $\chi^2$/NDF:1633226.1/5

Left: 137.309+/-0.000 $\chi^2$/NDF: 15936941.7/12

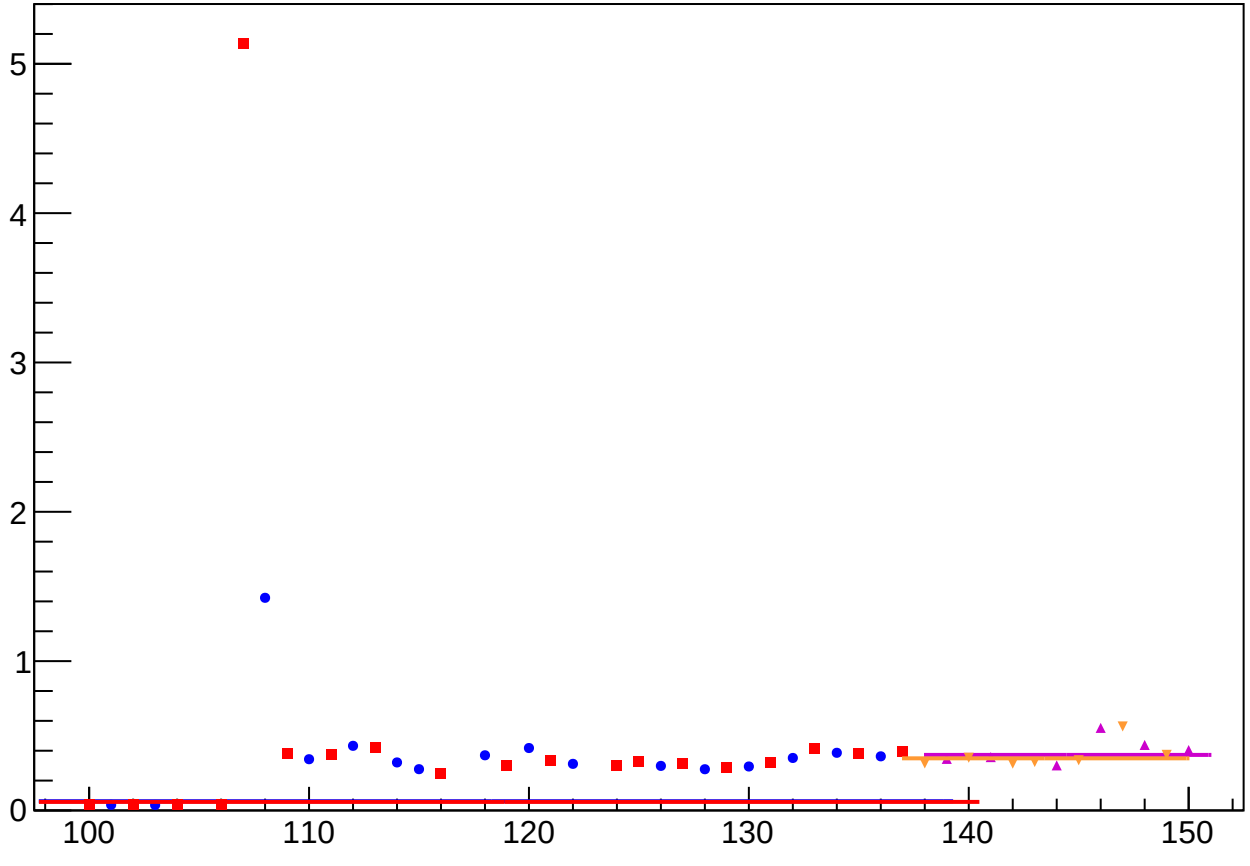
Right: 1853.888+/-0.000 $\chi^2$/NDF: 2888957986059

In: 1740.428+/-0.000 $\chi^2$/NDF:242382412315043.

Out: 1765.672+/-0.000 $\chi^2$/NDF:25822971595486

All: 1754.024+/-0.000 $\chi^2$/NDF: 5008200018

# yield_cav4dQ_rms vs Slug, Sign Corrected




Right In: 0.062+/-0.000 $\chi^2$/NDF: 8173578.9/15

Left Out: 0.349+/-0.000 $\chi^2$/NDF:268796.9/6

Right Out: 0.057+/-0.000 $\chi^2$/NDF: 7741927.9/18

Left In: 0.372+/-0.000 $\chi^2$/NDF:335758.0/5

Left: 0.360+/-0.000 $\chi^2$/NDF: 624414.3/12

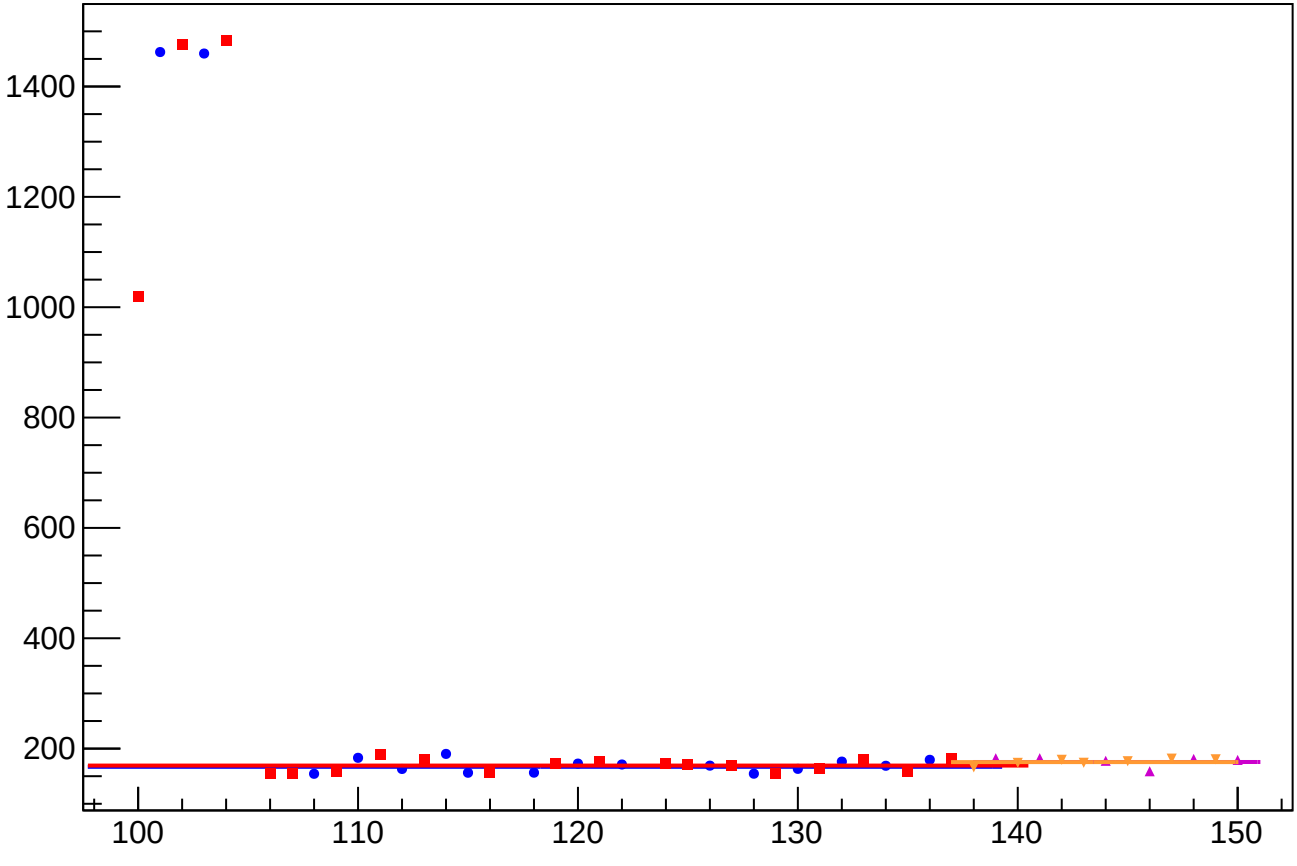
Right: 0.059+/-0.000 $\chi^2$/NDF: 15927866.9/34

In: 0.080+/-0.000 $\chi^2$/NDF:14914427.6/21

Out: 0.074+/-0.000 $\chi^2$/NDF:14590417.6/25

All: 0.077+/-0.000 $\chi^2$/NDF: 29525730.1/47

# yield_bcm0l02_mean vs Slug, Sign Corrected




Right In: 167.017+/-0.000 $\chi^2$/NDF: 14614977518.5/15

Left Out: 175.555+/-0.000 $\chi^2$/NDF:132547962.0/6

Right Out: 169.257+/-0.000 $\chi^2$/NDF: 16317542946.8/18

Left In: 175.743+/-0.000 $\chi^2$/NDF:365073856.5/5

Left: 175.647+/-0.000 $\chi^2$/NDF: 497700592.2/12

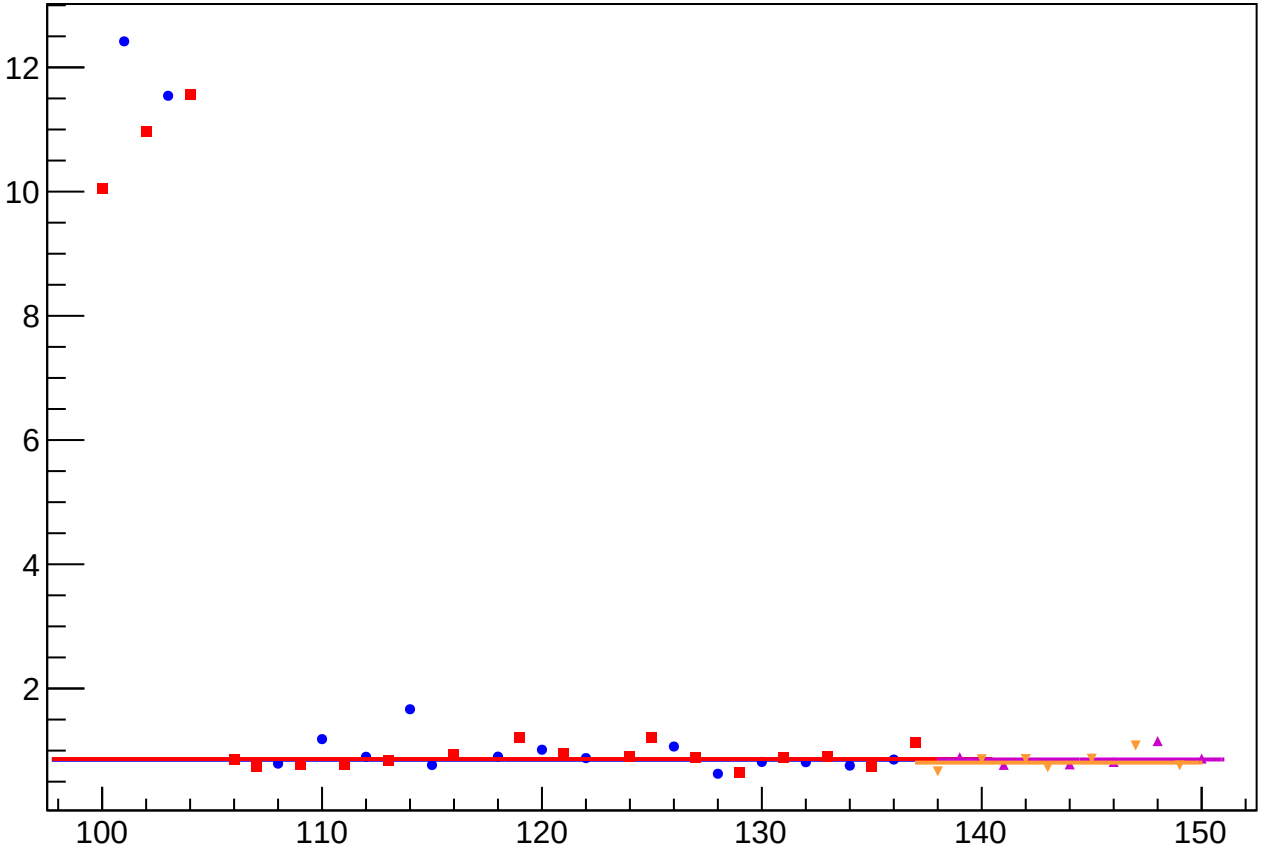
Right: 168.153+/-0.000 $\chi^2$/NDF: 30946000130.2/34

In: 170.944+/-0.000 $\chi^2$/NDF:15161528941.0/21

Out: 172.128+/-0.000 $\chi^2$/NDF:16548624058.6/25

All: 171.548+/-0.000 $\chi^2$/NDF: 31717041755.

# yield_bcm0l02_rms vs Slug, Sign Corrected




Right In: 0.853+/-0.000 $\chi^2$/NDF: 2302297.2/15

Left Out: 0.807+/-0.000 $\chi^2$/NDF:134191.1/6

Right Out: 0.864+/-0.000 $\chi^2$/NDF: 2209232.6/18

Left In: 0.857+/-0.000 $\chi^2$/NDF:106286.4/5

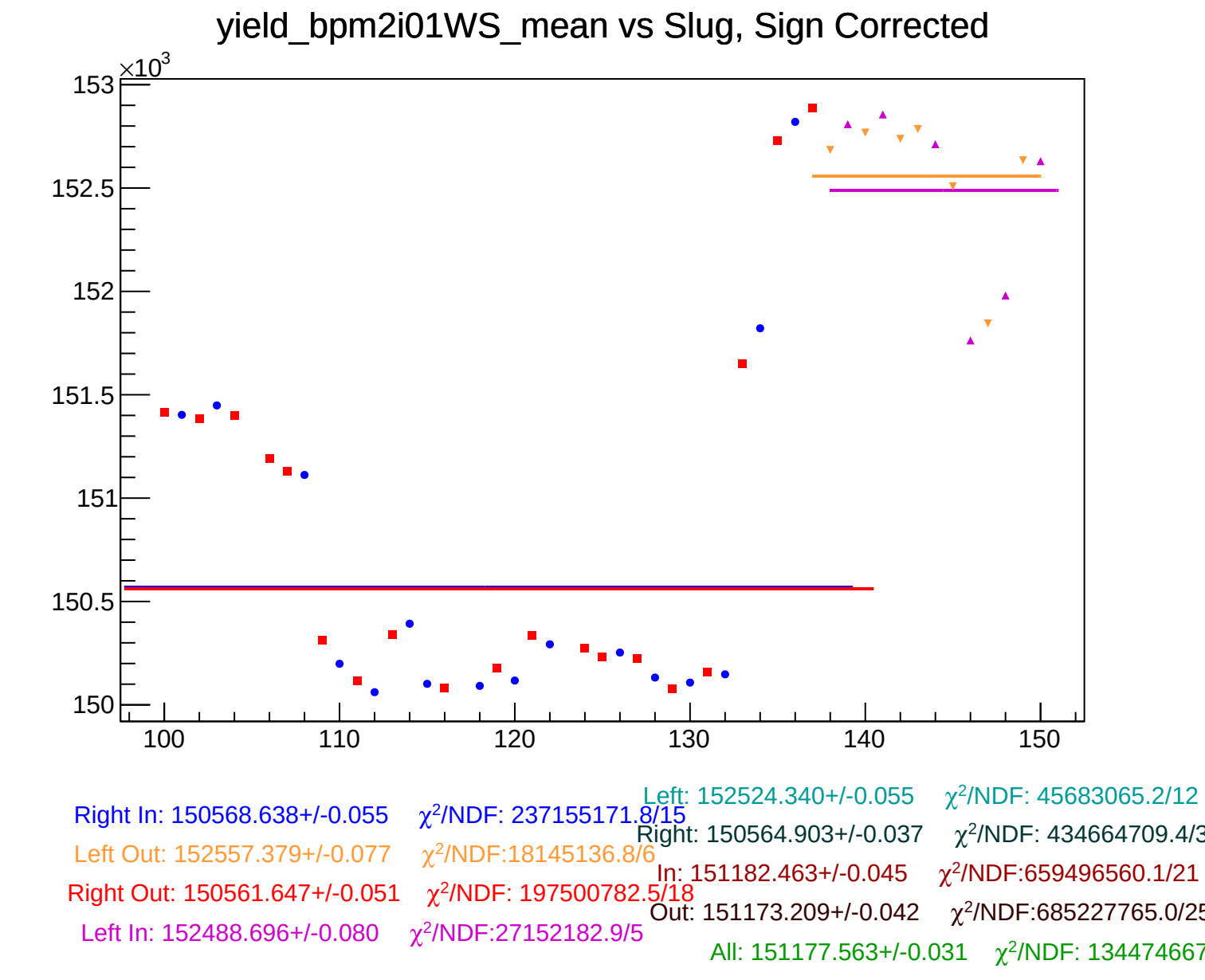
Left: 0.831+/-0.000 $\chi^2$/NDF: 251744.8/12

Right: 0.859+/-0.000 $\chi^2$/NDF: 4512219.1/34

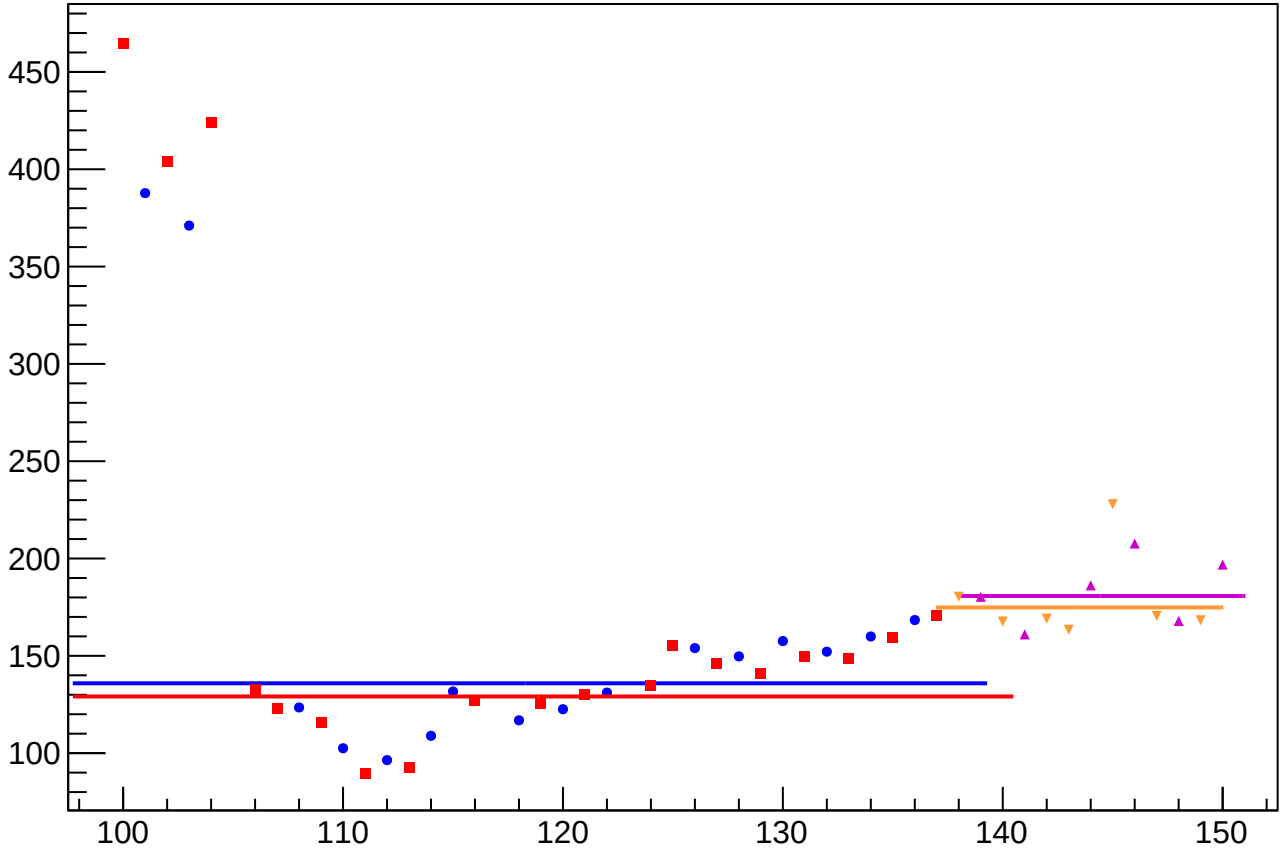
In: 0.855+/-0.000 $\chi^2$/NDF:2408664.1/21

Out: 0.838+/-0.000 $\chi^2$/NDF:2359883.1/25

All: 0.846+/-0.000 $\chi^2$/NDF: 4771305.6/47


yield_bpm2i01WS_mean vs Slug, Sign Corrected
×10^3
153
152.5
152
151.5
151
150.5
150
100
110
120
130
140
150
Right In: 150568.638+/-0.055 χ²/NDF: 237155171.8/15
Left Out: 152557.379+/-0.077 χ²/NDF:18145136.8/6
Right Out: 150561.647+/-0.051 χ²/NDF: 197500782.5/18
Left In: 152488.696+/-0.080 χ²/NDF:27152182.9/5
Left: 152524.340+/-0.055 χ²/NDF: 45683065.2/12
Right: 150564.903+/-0.037 χ²/NDF: 434664709.4/3
In: 151182.463+/-0.045 χ²/NDF:659496560.1/21
Out: 151173.209+/-0.042 χ²/NDF:685227765.0/25
All: 151177.563+/-0.031 χ²/NDF: 13447466

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 174.869+/-0.054 $\chi^2$/NDF:104214.5/6

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 180.751+/-0.056 $\chi^2$/NDF:78697.0/5

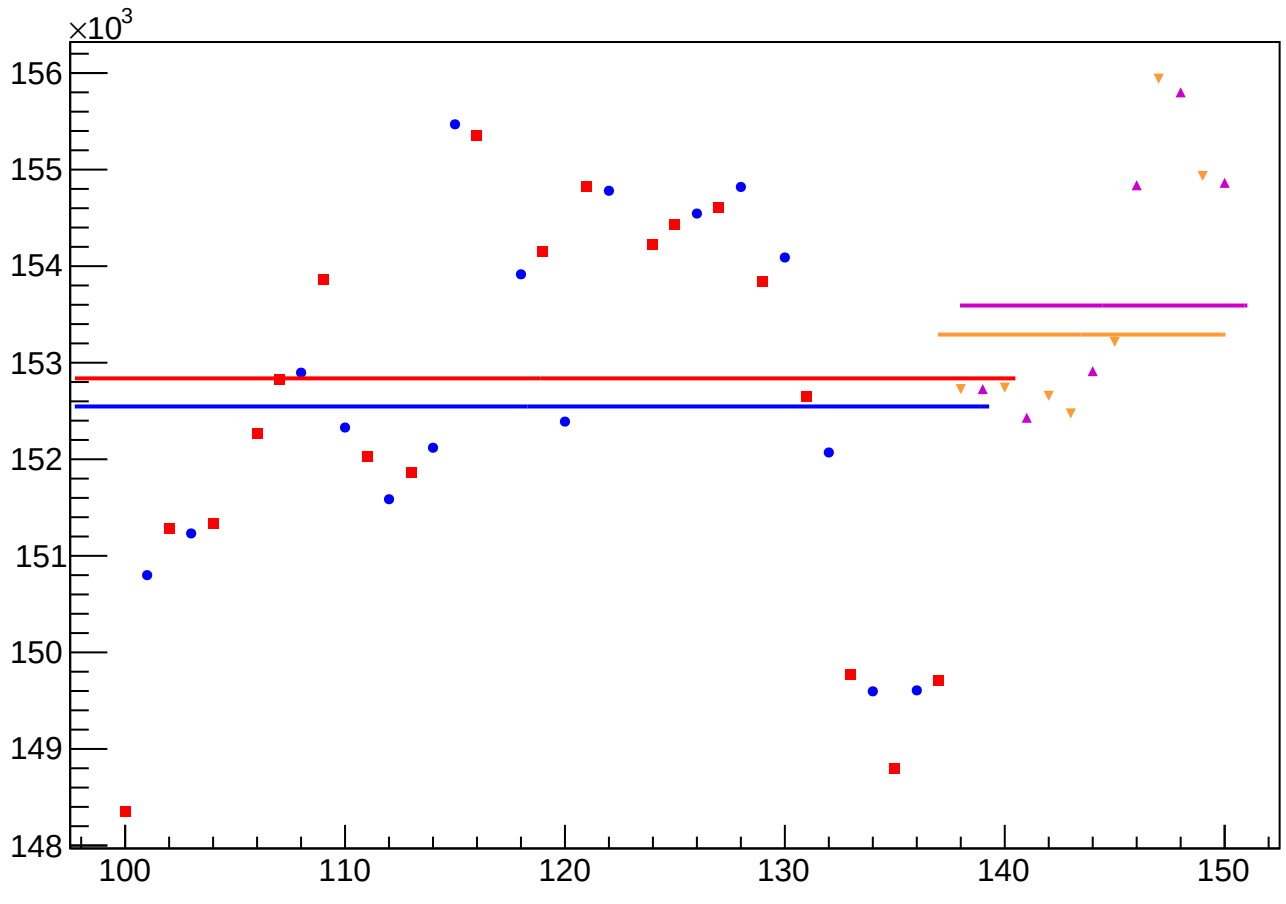
Left: 177.698+/-0.039 $\chi^2$/NDF: 188570.7/12

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

In: 150.236+/-0.032 $\chi^2$/NDF:1926380.0/21

Out: 143.146+/-0.030 $\chi^2$/NDF:2211808.2/25

All: 146.482+/-0.022 $\chi^2$/NDF: 4164424.3/47




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 153291.482+/-0.086 $\chi^2$/NDF:163004599.2/6

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 153592.305+/-0.092 $\chi^2$/NDF:175277289.0/5

Left: 153431.638+/-0.063 $\chi^2$/NDF: 343954969.0/12

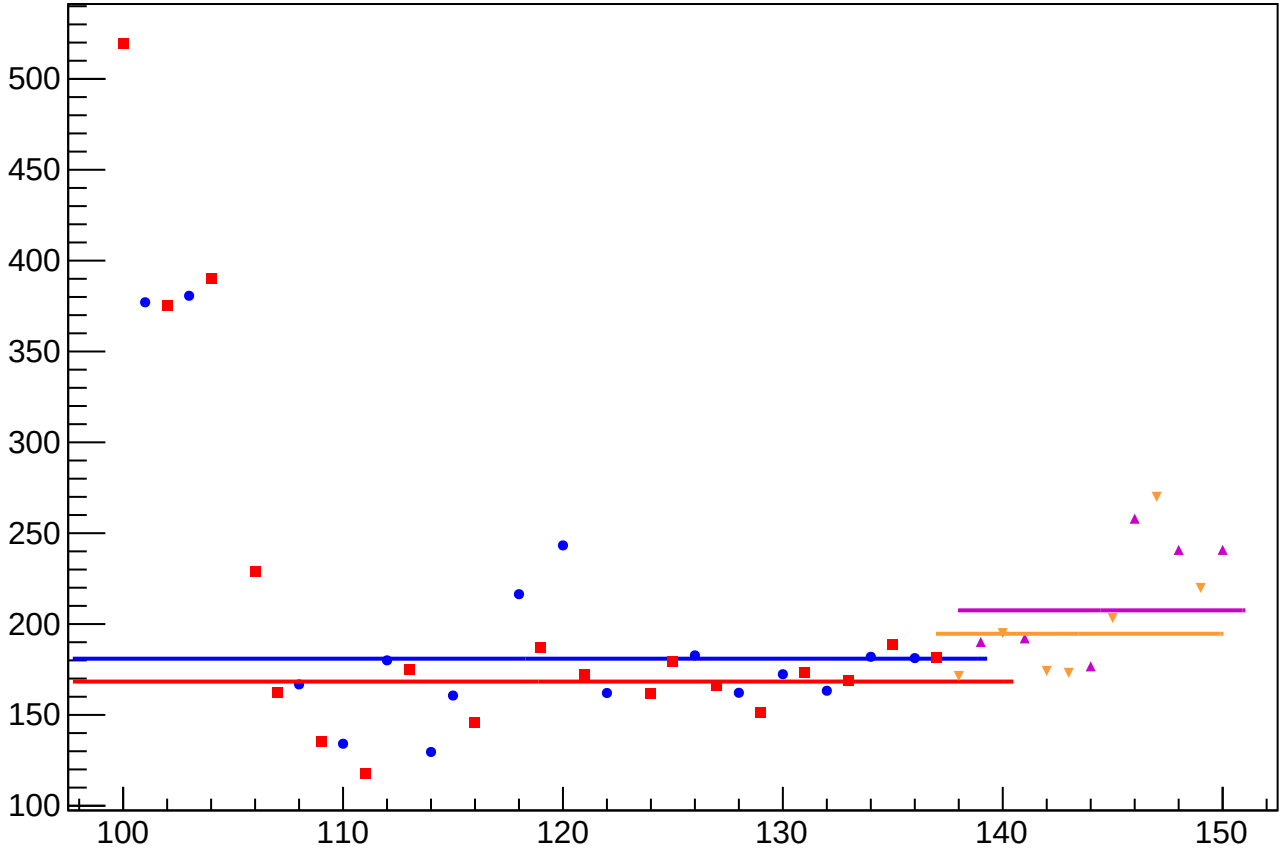
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0/

In: 152946.564+/-0.057 $\chi^2$/NDF:909054141.4/21

Out: 153007.612+/-0.053 $\chi^2$/NDF:917236920.1/25

All: 152979.495+/-0.039 $\chi^2$/NDF: 18269083

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 194.661+/-0.061 $\chi^2$/NDF:216131.5/6

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 207.548+/-0.065 $\chi^2$/NDF:210688.8/5

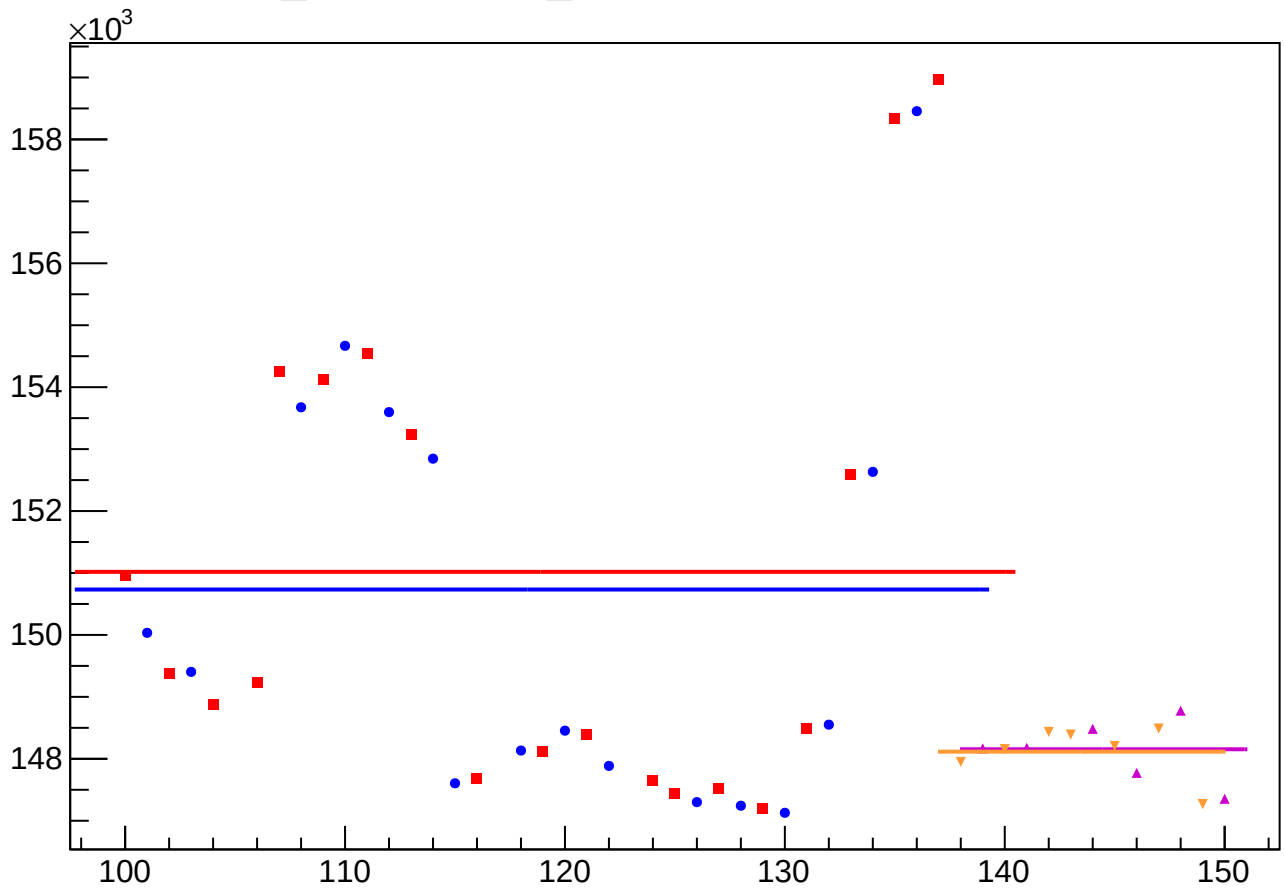
Left: 200.665+/-0.045 $\chi^2$/NDF: 447644.6/12

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 191.112+/-0.040 $\chi^2$/NDF:1221123.8/21

Out: 178.194+/-0.037 $\chi^2$/NDF:1421814.6/25

All: 184.144+/-0.027 $\chi^2$/NDF: 2698207.0/47




Right In: 150733.301+/-0.063 $\chi^2$/NDF: 3283848751.0/15

Left Out: 148115.576+/-0.085 $\chi^2$/NDF:19822202.3/6

Right Out: 151018.500+/-0.060 $\chi^2$/NDF: 3286131878.7/18

Left In: 148154.207+/-0.089 $\chi^2$/NDF:21436911.0/5

Left: 148133.918+/-0.062 $\chi^2$/NDF: 41357368.9/12

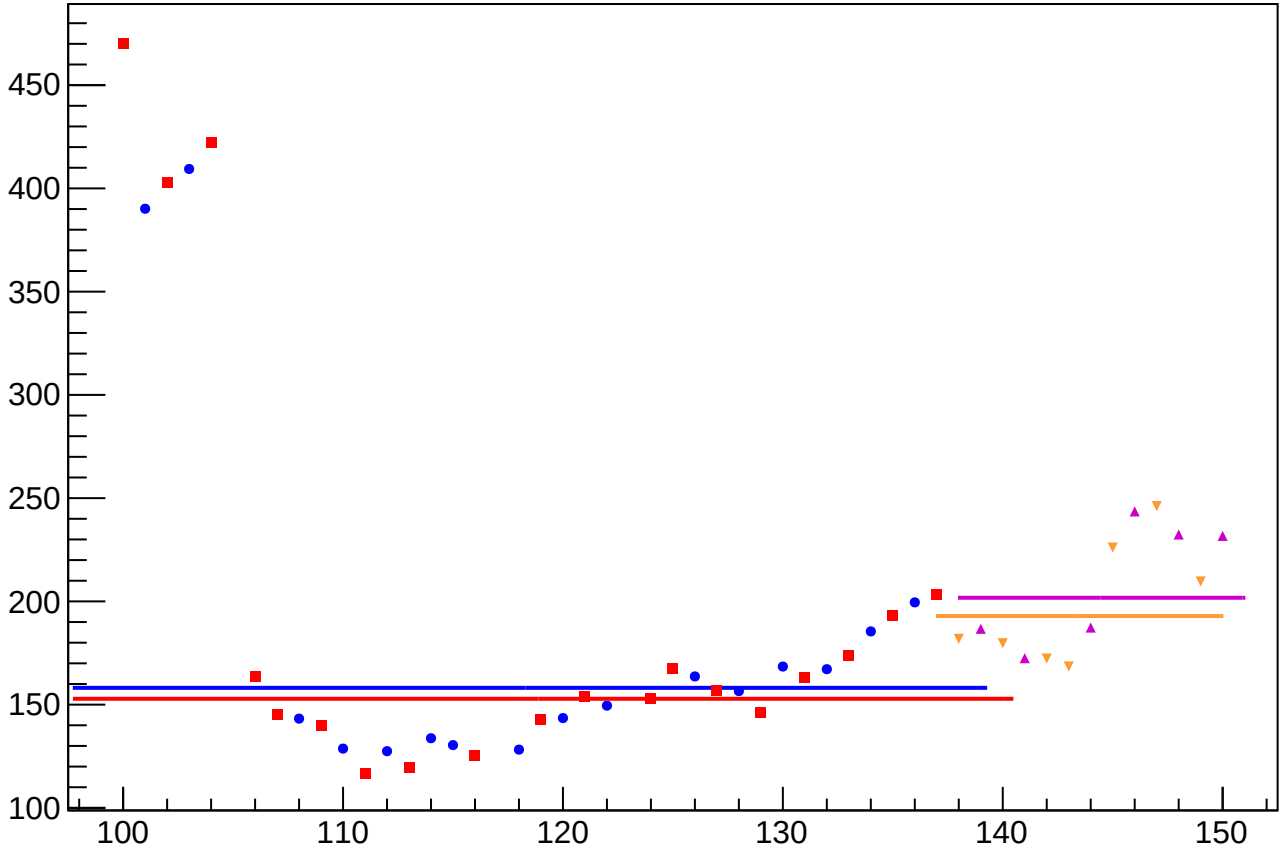
Right: 150882.491+/-0.043 $\chi^2$/NDF: 6580735457.3/

In: 149878.245+/-0.051 $\chi^2$/NDF:3862700746.7/21

Out: 150050.717+/-0.049 $\chi^2$/NDF:4084896258.4/2

All: 149968.586+/-0.035 $\chi^2$/NDF: 79534886

# yield_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 158.138+/-0.044 $\chi^2$/NDF: 1195699.5/15

Left Out: 192.877+/-0.060 $\chi^2$/NDF:181817.8/6

Right Out: 152.841+/-0.042 $\chi^2$/NDF: 1264236.1/18

Left In: 201.761+/-0.063 $\chi^2$/NDF:182075.0/5

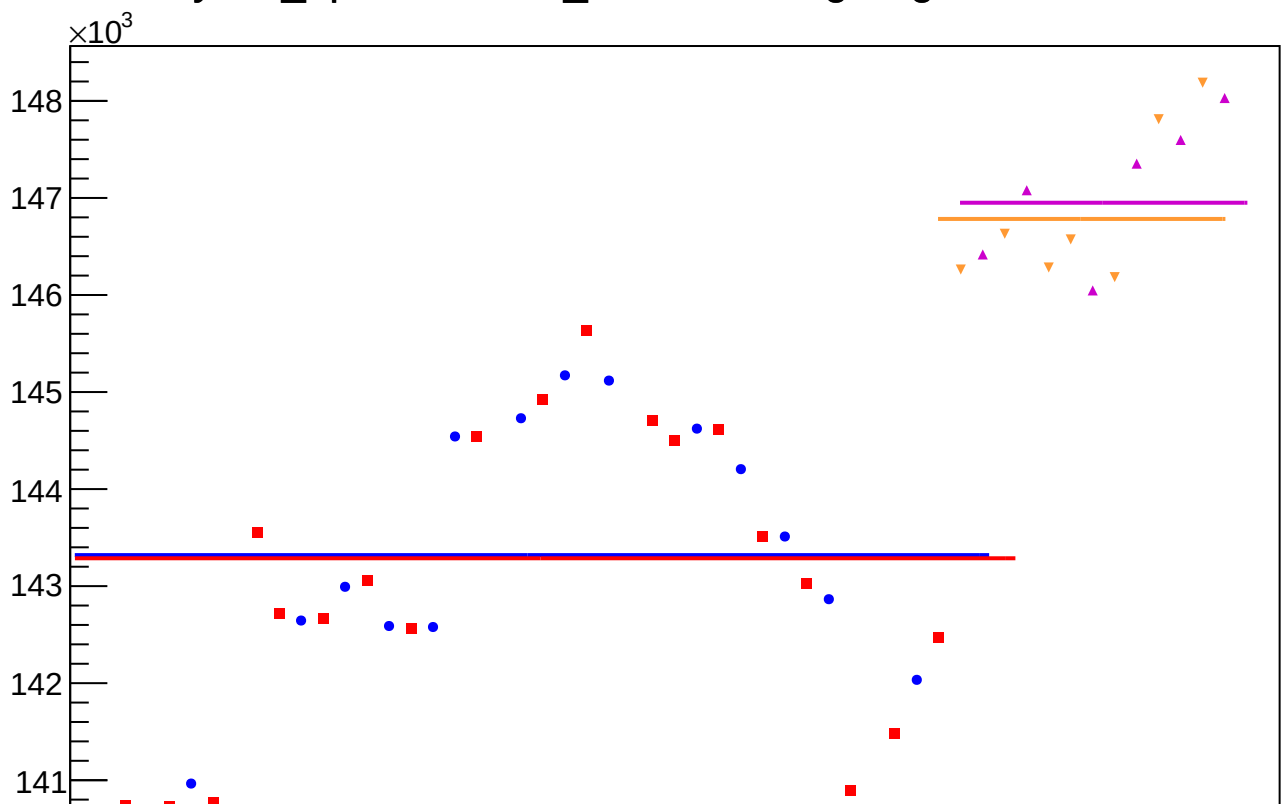
Left: 197.095+/-0.044 $\chi^2$/NDF: 374284.3/12

Right: 155.367+/-0.031 $\chi^2$/NDF: 2467354.6/34

In: 172.600+/-0.036 $\chi^2$/NDF:1696713.1/21

Out: 166.188+/-0.035 $\chi^2$/NDF:1742380.5/25

All: 169.242+/-0.025 $\chi^2$/NDF: 3455379.0/47




Right In: 143319.651+/-0.053 $\chi^2$/NDF: 559301530.7/15

Left Out: 146783.811+/-0.085 $\chi^2$/NDF:66921214.3/6

Right Out: 143286.960+/-0.050 $\chi^2$/NDF: 620521577.8/18

Left In: 146950.726+/-0.089 $\chi^2$/NDF:55715968.7/5

Left: 146863.049+/-0.061 $\chi^2$/NDF: 124481588.4/12

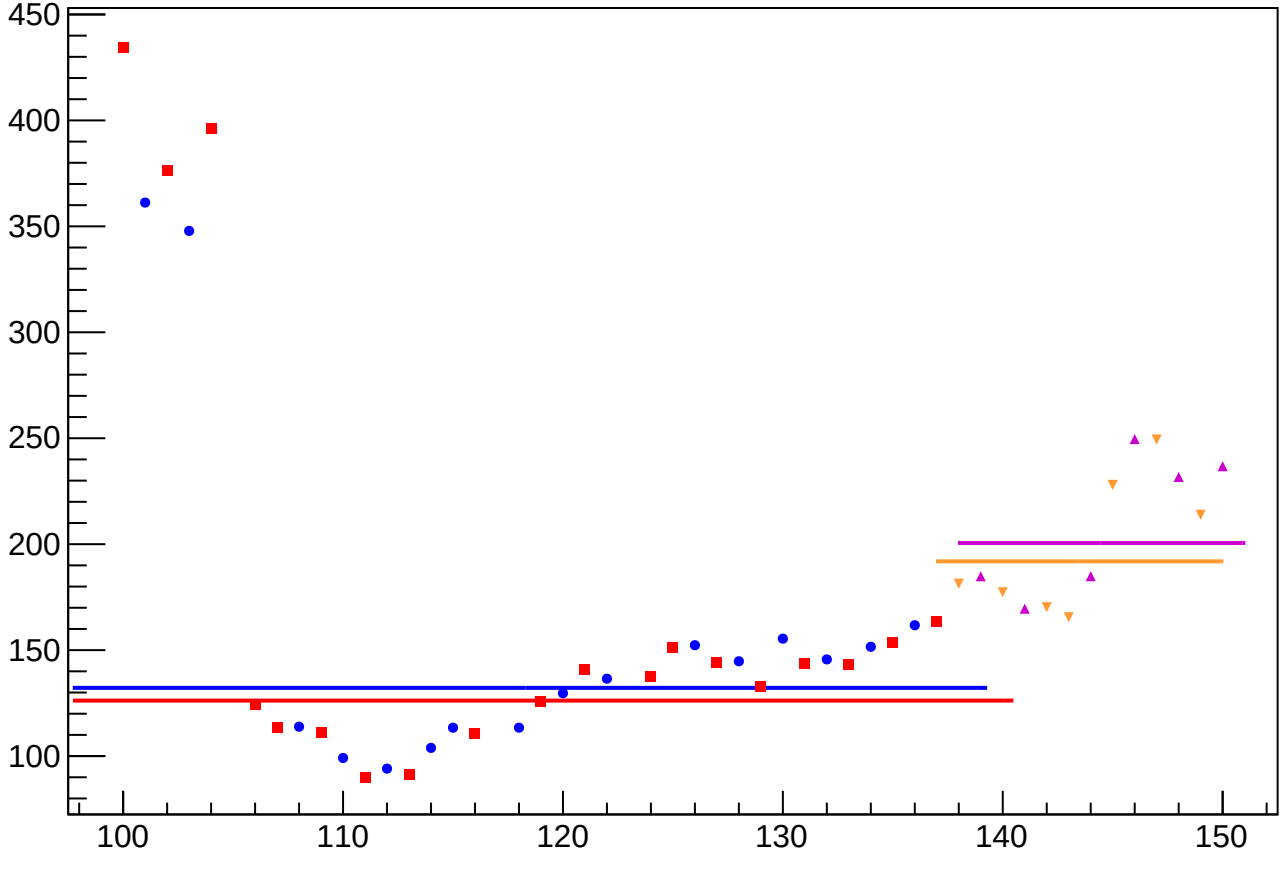
Right: 143302.220+/-0.036 $\chi^2$/NDF: 1180025024.1/

In: 144272.312+/-0.046 $\chi^2$/NDF:1840726658.2/21

Out: 144183.058+/-0.043 $\chi^2$/NDF:1955679825.9/2

All: 144224.905+/-0.031 $\chi^2$/NDF: 379843904

# yield_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 132.204+/-0.038 $\chi^2$/NDF: 1379168.6/15

Left Out: 191.902+/-0.060 $\chi^2$/NDF:214737.4/6

Right Out: 126.191+/-0.035 $\chi^2$/NDF: 1545034.5/18

Left In: 200.584+/-0.063 $\chi^2$/NDF:222113.2/5

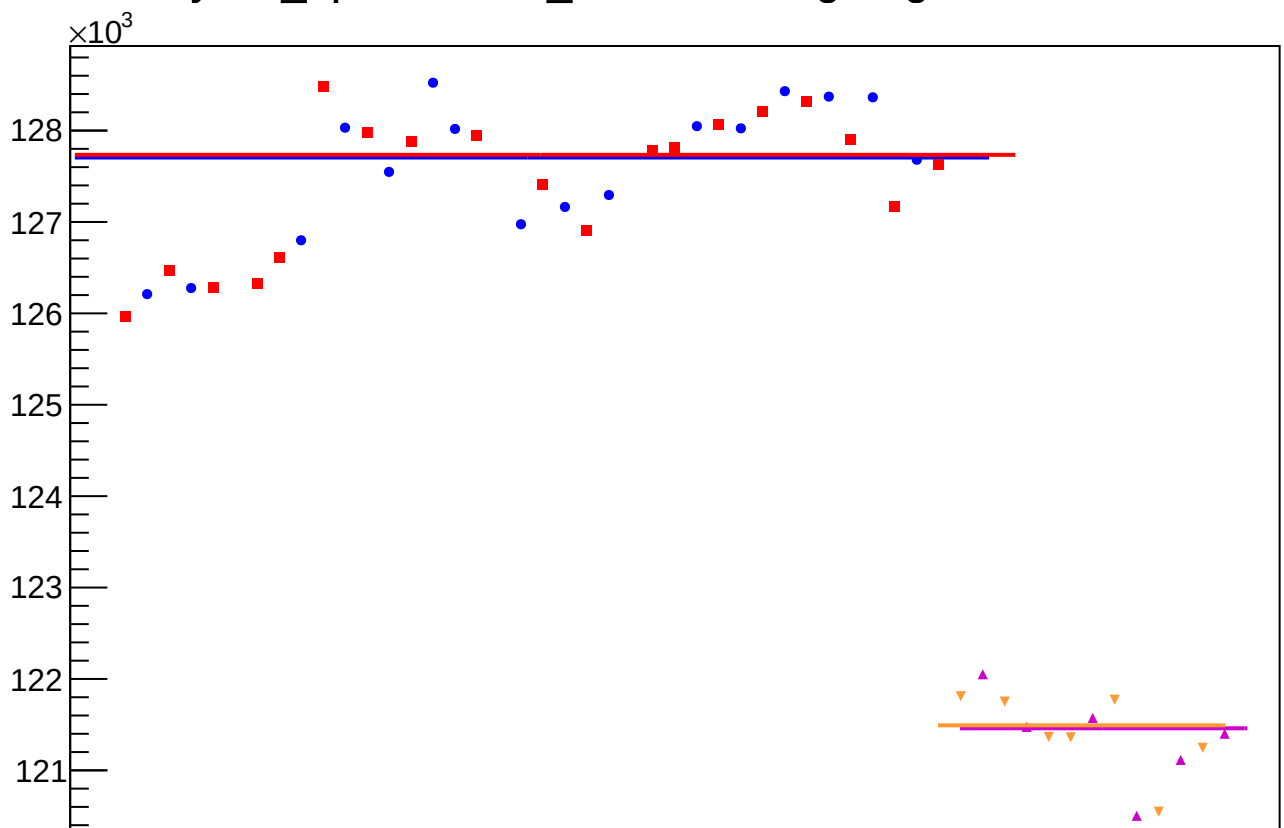
Left: 196.023+/-0.043 $\chi^2$/NDF: 446832.2/12

Right: 128.998+/-0.026 $\chi^2$/NDF: 2937865.2/34

In: 150.145+/-0.032 $\chi^2$/NDF:2470654.9/21

Out: 143.030+/-0.030 $\chi^2$/NDF:2655435.7/25

All: 146.366+/-0.022 $\chi^2$/NDF: 5151920.1/47




Right In: 127705.222+/-0.058 $\chi^2$/NDF: 104467207.7/15

Left Out: 121492.502+/-0.074 $\chi^2$/NDF:20385807.2/6

Right Out: 127734.542+/-0.055 $\chi^2$/NDF: 109469333.8/18

Left In: 121460.112+/-0.077 $\chi^2$/NDF:30388265.9/5

Left: 121476.956+/-0.053 $\chi^2$/NDF: 50866025.8/12

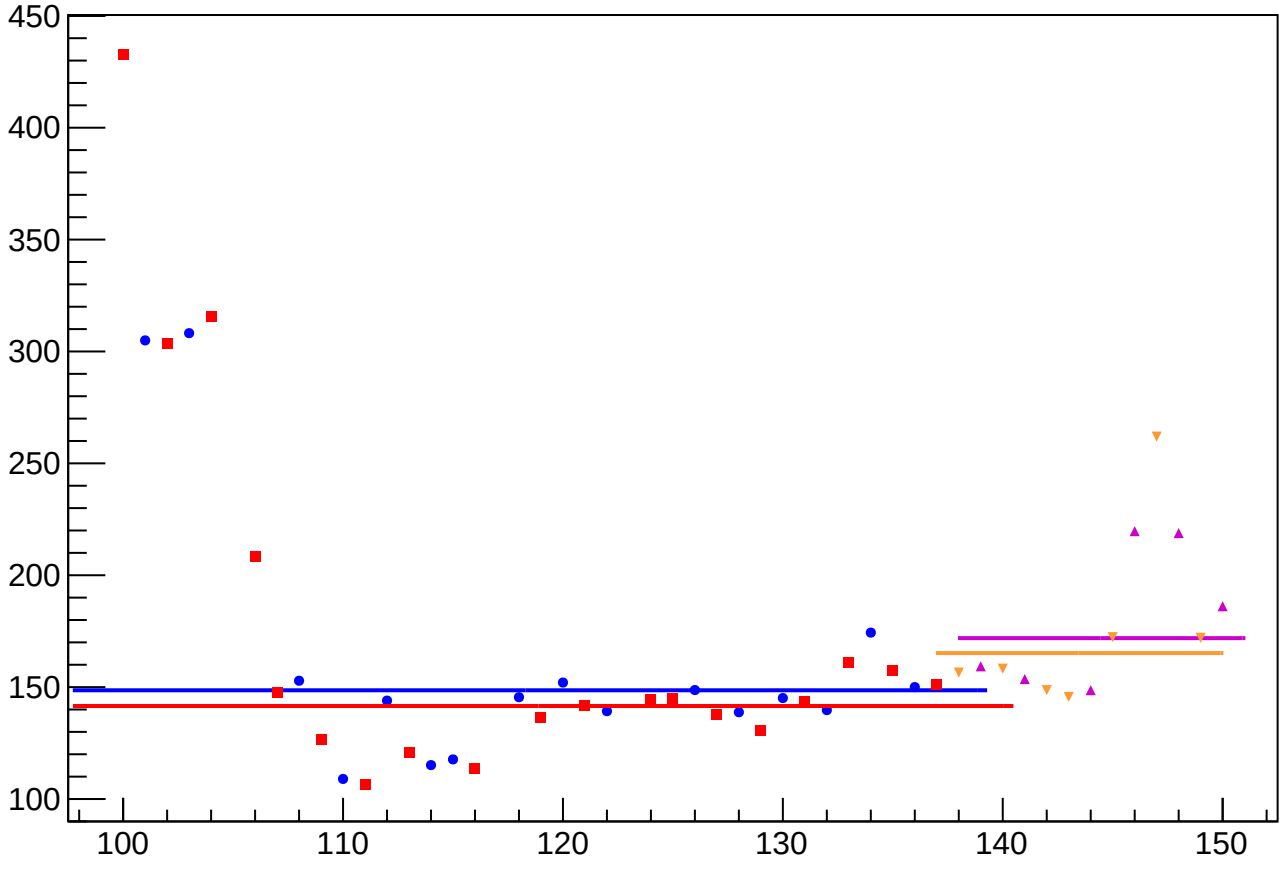
Right: 127720.787+/-0.040 $\chi^2$/NDF: 214070280.4/3

In: 125424.800+/-0.047 $\chi^2$/NDF:4308243462.0/21

Out: 125517.852+/-0.044 $\chi^2$/NDF:4718432599.3/2

All: 125473.836+/-0.032 $\chi^2$/NDF: 90287822

# yield_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 148.593+/-0.041 $\chi^2$/NDF: 827701.4/15

Left Out: 165.232+/-0.052 $\chi^2$/NDF:273137.1/6

Right Out: 141.563+/-0.039 $\chi^2$/NDF: 1001225.3/18

Left In: 171.896+/-0.054 $\chi^2$/NDF:243308.9/5

Left: 168.431+/-0.038 $\chi^2$/NDF: 524229.2/12

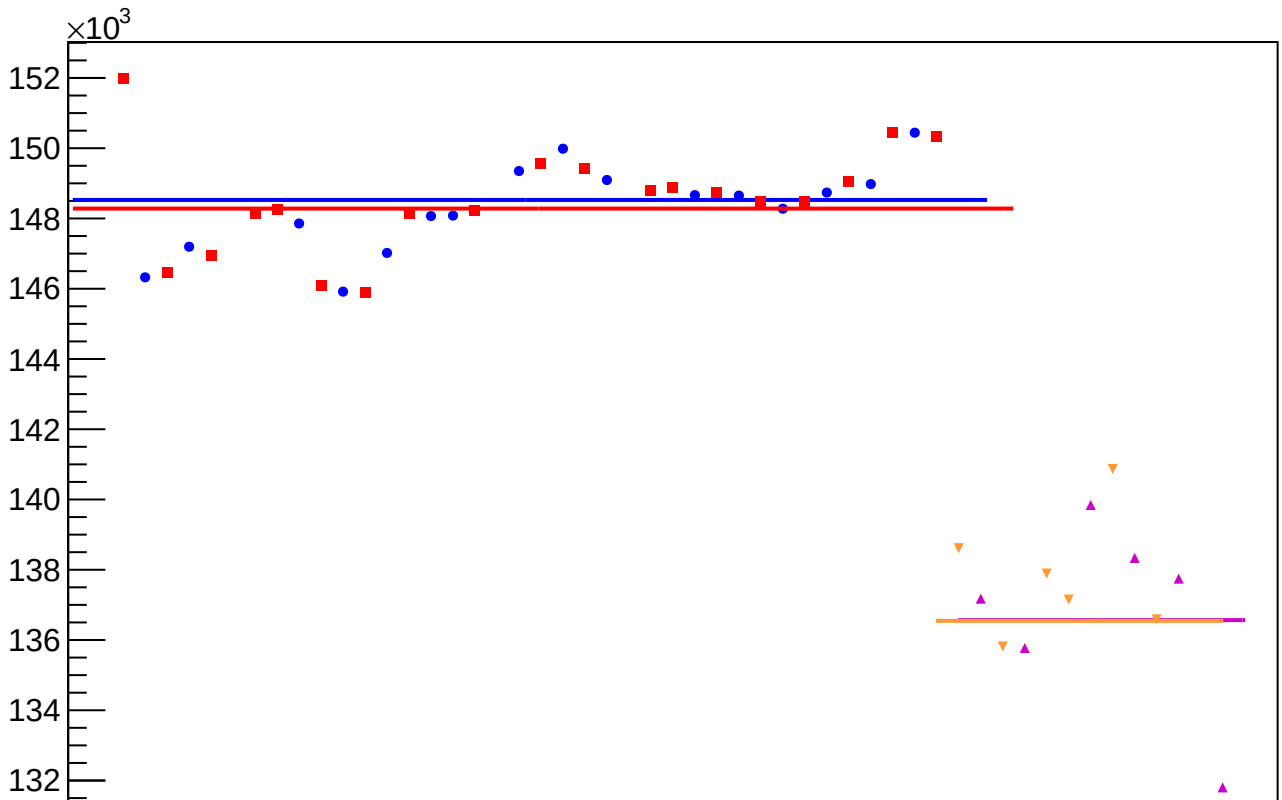
Right: 144.861+/-0.028 $\chi^2$/NDF: 1844303.5/34

In: 157.102+/-0.033 $\chi^2$/NDF:1187221.4/21

Out: 149.969+/-0.031 $\chi^2$/NDF:1406317.9/25

All: 153.343+/-0.023 $\chi^2$/NDF: 2618295.6/47

# yield_bpm0l02WS_mean vs Slug, Sign Corrected




Right In: 148527.678+/-0.082 $\chi^2$/NDF: 209208133.0/15

Left Out: 136546.173+/-0.109 $\chi^2$/NDF:709715140.4/6

Right Out: 148282.003+/-0.077 $\chi^2$/NDF: 294673557.8/18

Left In: 136566.588+/-0.114 $\chi^2$/NDF:502383995.4/5

Left: 136555.882+/-0.079 $\chi^2$/NDF: 1212115916.7/1

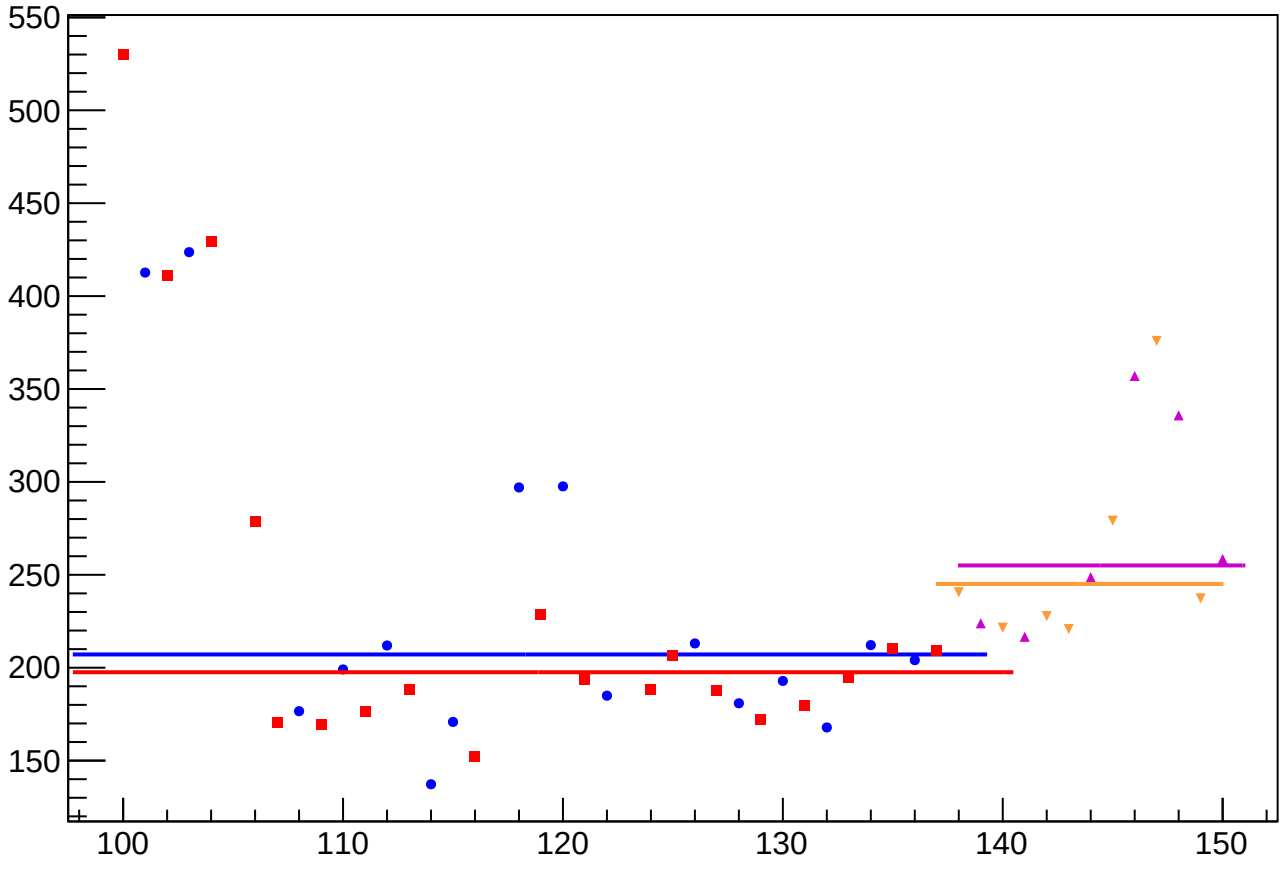
Right: 148396.583+/-0.056 $\chi^2$/NDF: 508678498.1/3

In: 144459.203+/-0.067 $\chi^2$/NDF:7959428134.7/21

Out: 144386.584+/-0.063 $\chi^2$/NDF:8794624903.9/2

All: 144420.677+/-0.046 $\chi^2$/NDF: 16754684

# yield_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 207.135+/-0.058 $\chi^2$/NDF: 972216.9/15

Left Out: 245.105+/-0.077 $\chi^2$/NDF:265955.5/6

Right Out: 197.571+/-0.054 $\chi^2$/NDF: 903999.3/18

Left In: 255.038+/-0.081 $\chi^2$/NDF:324530.4/5

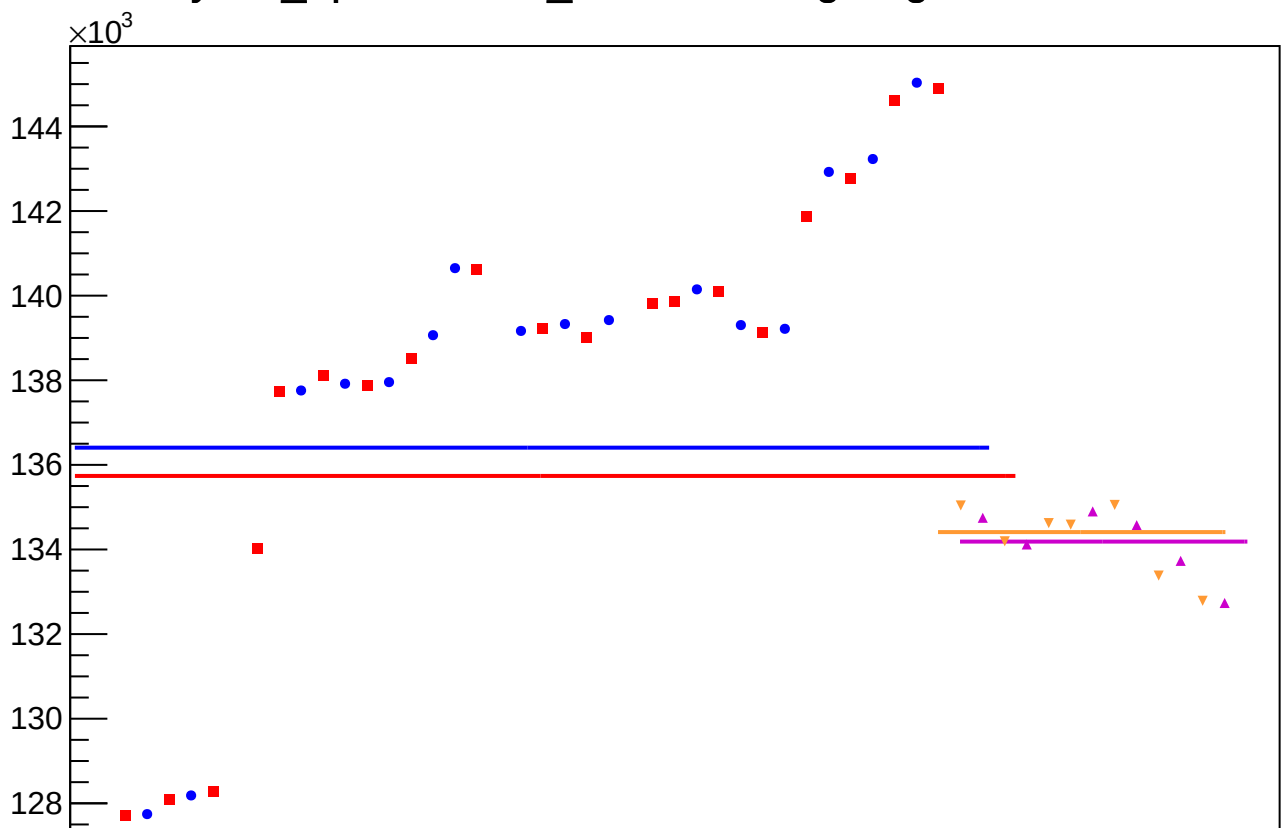
Left: 249.828+/-0.056 $\chi^2$/NDF: 598430.9/12

Right: 202.032+/-0.040 $\chi^2$/NDF: 1890755.2/34

In: 223.429+/-0.047 $\chi^2$/NDF:1529242.5/21

Out: 213.349+/-0.044 $\chi^2$/NDF:1425550.3/25

All: 218.081+/-0.032 $\chi^2$/NDF: 2979127.1/47




Right In: 136406.923+/-0.169 $\chi^2$/NDF: 1577071044.7/15

Left Out: 134411.279+/-0.244 $\chi^2$/NDF:9163525.0/6

Right Out: 135738.412+/-0.177 $\chi^2$/NDF: 1174123878.0/18

Left In: 134186.374+/-0.263 $\chi^2$/NDF:6719316.0/5

Left: 134307.252+/-0.179 $\chi^2$/NDF: 16274695.9/12

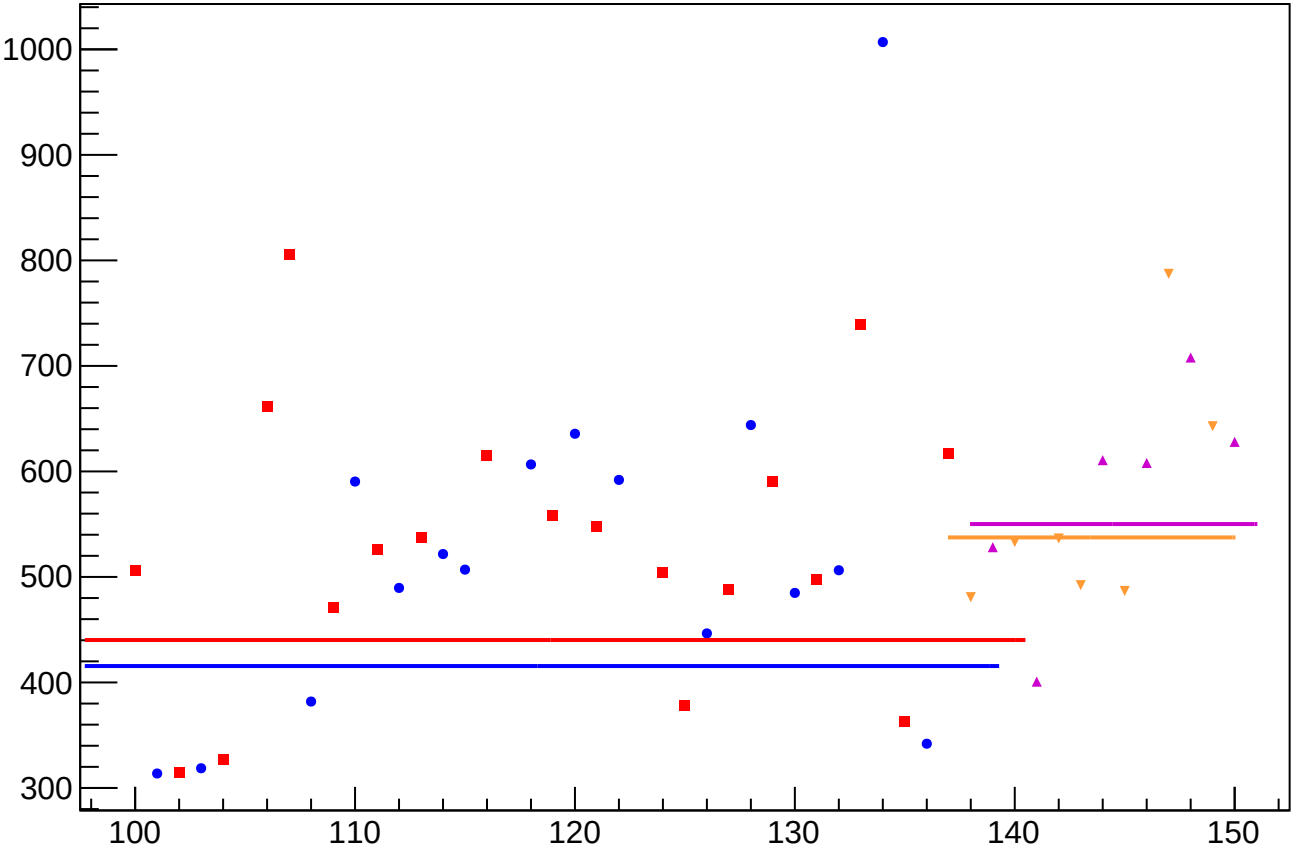
Right: 136088.335+/-0.122 $\chi^2$/NDF: 2758689484.9/

In: 135761.666+/-0.142 $\chi^2$/NDF:1634210204.1/21

Out: 135282.801+/-0.143 $\chi^2$/NDF:1202659427.0/2

All: 135524.220+/-0.101 $\chi^2$/NDF: 28425097

# yield_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 415.547+/-0.119 $\chi^2$/NDF: 1031600.7/15

Left Out: 537.444+/-0.173 $\chi^2$/NDF:239989.3/6

Right Out: 440.218+/-0.125 $\chi^2$/NDF: 910790.1/18

Left In: 550.126+/-0.186 $\chi^2$/NDF:313412.0/5

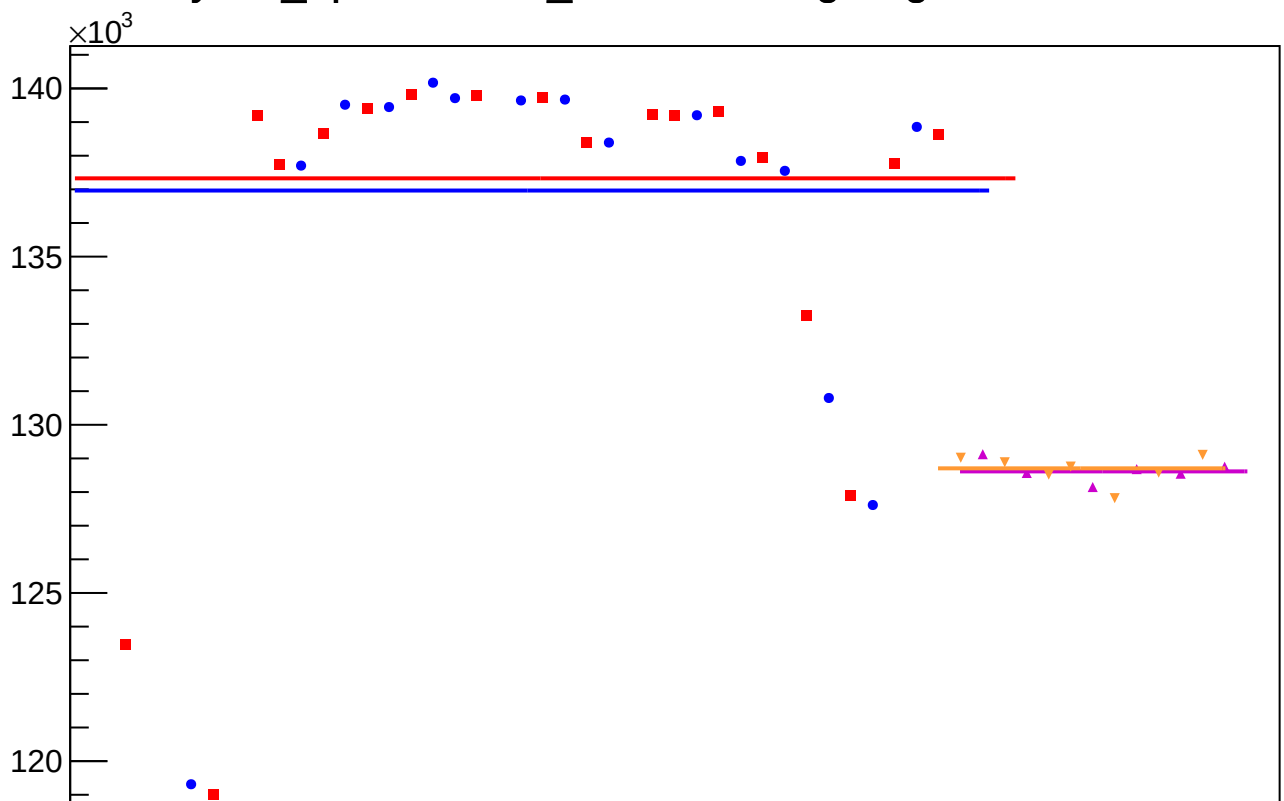
Left: 543.310+/-0.127 $\chi^2$/NDF: 555893.0/12

Right: 427.304+/-0.086 $\chi^2$/NDF: 1962803.8/34

In: 454.654+/-0.100 $\chi^2$/NDF:1715404.4/21

Out: 473.596+/-0.101 $\chi^2$/NDF:1358722.5/25

All: 464.046+/-0.071 $\chi^2$/NDF: 3091777.1/47




Right In: 136964.958+/-0.070 $\chi^2$/NDF: 5807770301.4/15

Left Out: 128705.238+/-0.080 $\chi^2$/NDF:25324348.8/6

Right Out: 137327.469+/-0.066 $\chi^2$/NDF: 5737745895.7/18

Left In: 128614.611+/-0.084 $\chi^2$/NDF:14818039.2/5

Left: 128662.319+/-0.058 $\chi^2$/NDF: 40755836.4/12

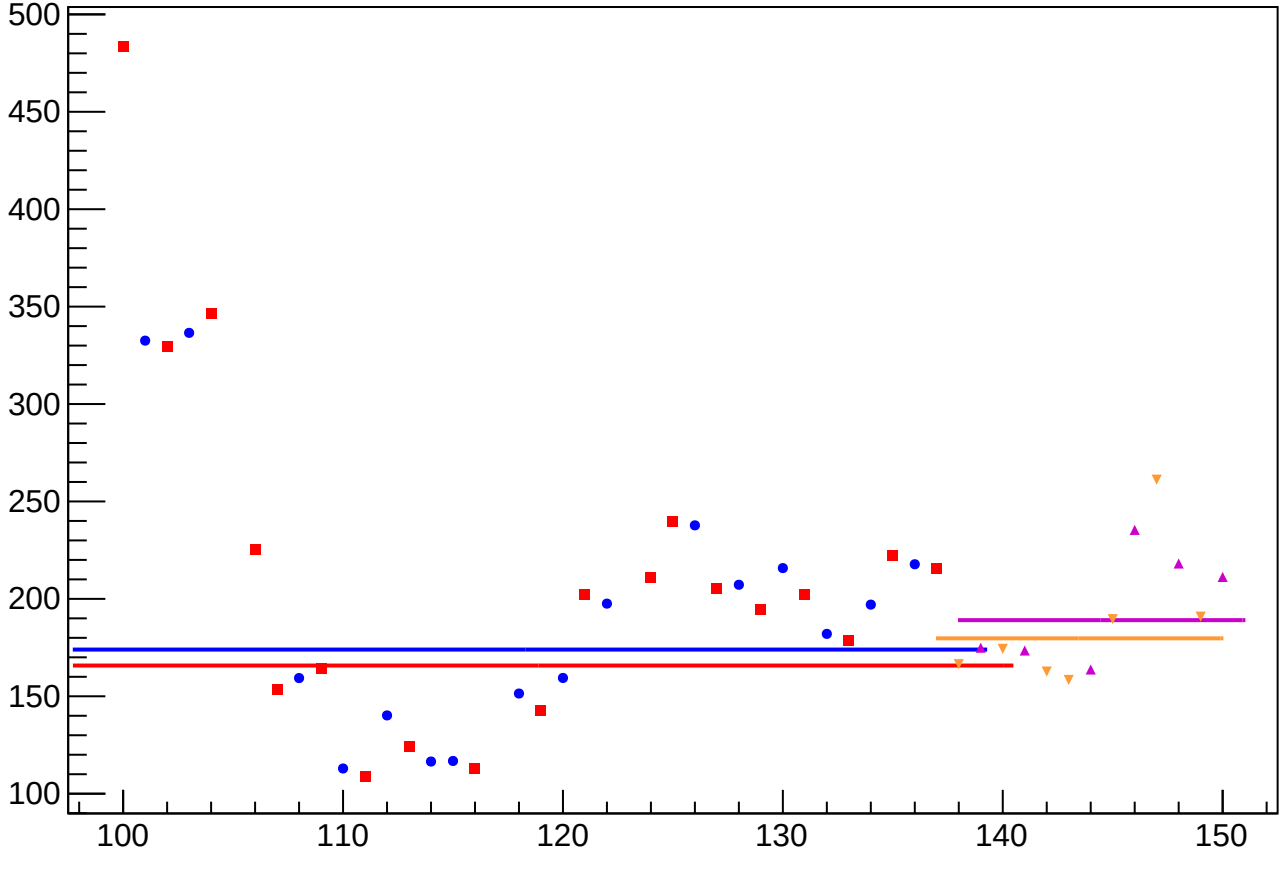
Right: 137157.181+/-0.048 $\chi^2$/NDF: 1559848727.

In: 133556.176+/-0.054 $\chi^2$/NDF:11677193918.3/

Out: 133839.705+/-0.051 $\chi^2$/NDF:12745140754.2/

All: 133706.077+/-0.037 $\chi^2$/NDF: 24437106

# yield_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 173.982+/-0.049 $\chi^2$/NDF: 1188493.1/15

Left Out: 179.736+/-0.056 $\chi^2$/NDF:218320.8/6

Right Out: 165.780+/-0.046 $\chi^2$/NDF: 1433162.4/18

Left In: 189.079+/-0.059 $\chi^2$/NDF:183505.8/5

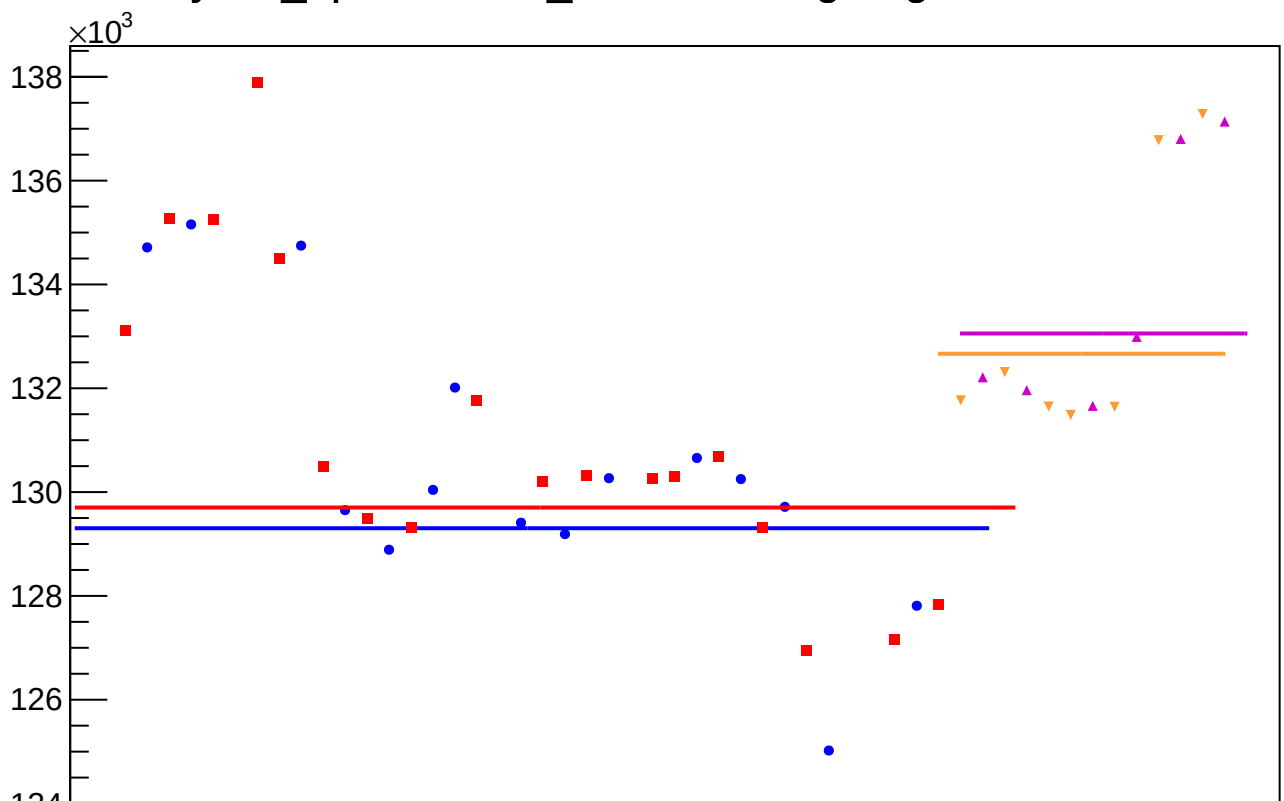
Left: 184.161+/-0.041 $\chi^2$/NDF: 414866.3/12

Right: 169.633+/-0.034 $\chi^2$/NDF: 2636327.1/34

In: 180.145+/-0.038 $\chi^2$/NDF:1410275.8/21

Out: 171.426+/-0.036 $\chi^2$/NDF:1688067.4/25

All: 175.535+/-0.026 $\chi^2$/NDF: 3126283.1/47




Right In: 129303.894+/-0.066 $\chi^2$/NDF: 1650235360.7/15

Left Out: 132665.028+/-0.081 $\chi^2$/NDF:620500262.7/6

Right Out: 129702.568+/-0.062 $\chi^2$/NDF: 1777723481.2/18

Left In: 133055.467+/-0.086 $\chi^2$/NDF:542426365.6/5

Left: 132847.410+/-0.059 $\chi^2$/NDF: 1173817955.1/1

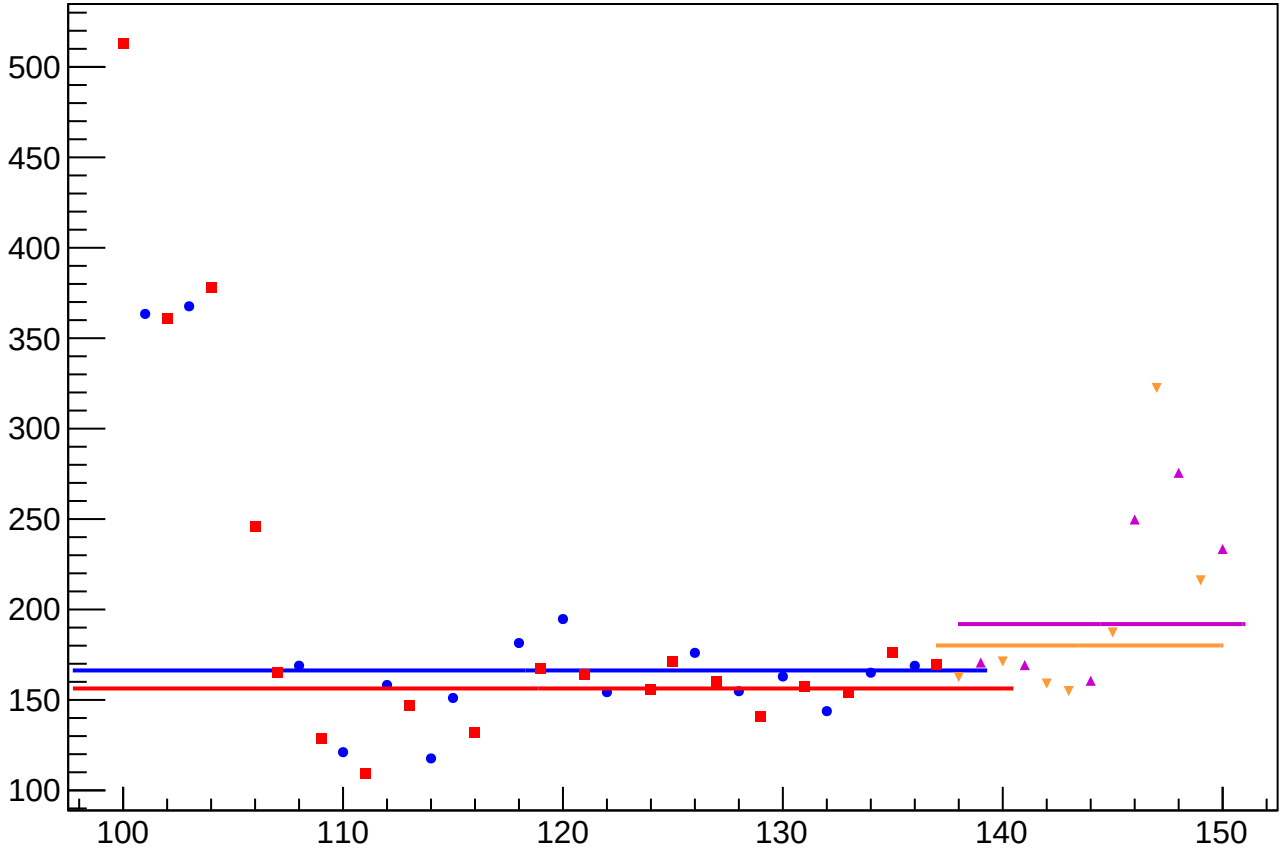
Right: 129517.750+/-0.045 $\chi^2$/NDF: 3447412906.7/

In: 130692.402+/-0.053 $\chi^2$/NDF:3381253166.1/21

Out: 130789.213+/-0.049 $\chi^2$/NDF:3248164410.4/2

All: 130744.207+/-0.036 $\chi^2$/NDF: 66312343

# yield_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 166.302+/-0.047 $\chi^2$/NDF: 937947.6/15

Left Out: 180.112+/-0.057 $\chi^2$/NDF:444398.9/6

Right Out: 156.334+/-0.044 $\chi^2$/NDF: 1172834.9/18

Left In: 191.941+/-0.061 $\chi^2$/NDF:422600.6/5

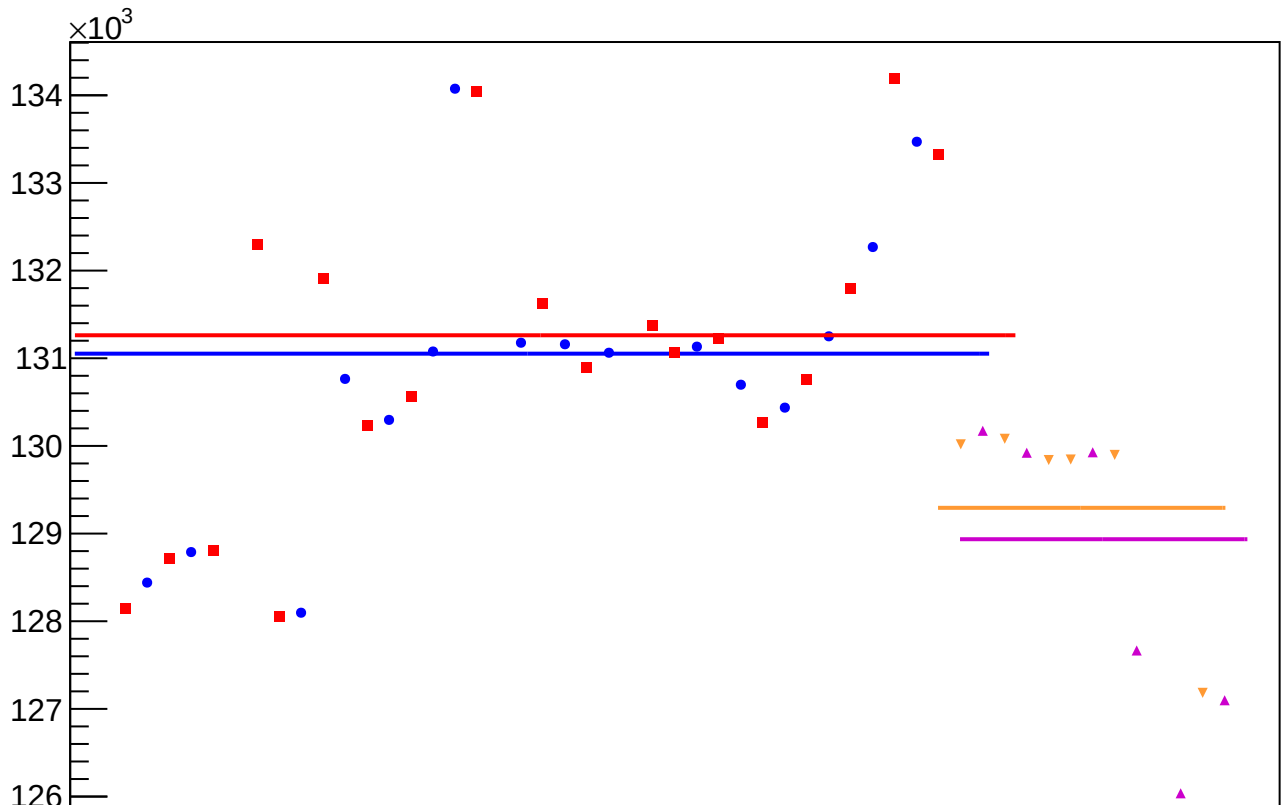
Left: 185.638+/-0.042 $\chi^2$/NDF: 886993.7/12

Right: 160.955+/-0.032 $\chi^2$/NDF: 2135107.2/34

In: 175.792+/-0.037 $\chi^2$/NDF:1471574.8/21

Out: 165.056+/-0.035 $\chi^2$/NDF:1726745.4/25

All: 170.047+/-0.025 $\chi^2$/NDF: 3243003.3/47




Right In: 131052.422+/-0.061 $\chi^2$/NDF: 523713045.8/15

Left Out: 129293.803+/-0.076 $\chi^2$/NDF:303781087.3/6

Right Out: 131262.232+/-0.057 $\chi^2$/NDF: 604278186.1/18

Left In: 128935.603+/-0.081 $\chi^2$/NDF:349106049.1/5

Left: 129126.186+/-0.055 $\chi^2$/NDF: 663310876.3/12

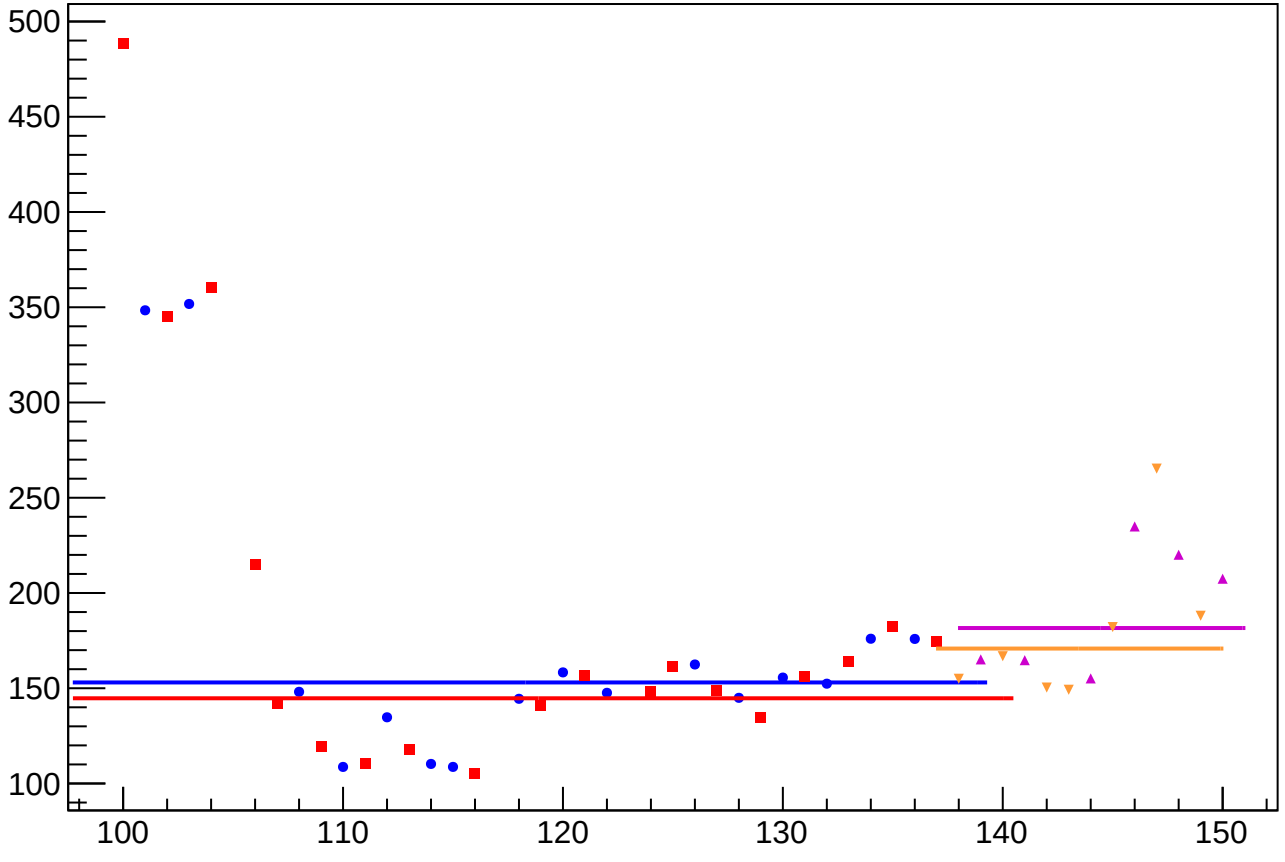
Right: 131164.431+/-0.041 $\chi^2$/NDF: 1134382049.3/

In: 130291.247+/-0.049 $\chi^2$/NDF:1310990608.5/21

Out: 130557.691+/-0.045 $\chi^2$/NDF:1339985286.6/2

All: 130433.318+/-0.033 $\chi^2$/NDF: 26670499

# yield_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 153.043+/-0.043 $\chi^2$/NDF: 1059470.3/15

Left Out: 170.832+/-0.054 $\chi^2$/NDF:293525.5/6

Right Out: 144.731+/-0.040 $\chi^2$/NDF: 1263423.6/18

Left In: 181.611+/-0.057 $\chi^2$/NDF:253442.9/5

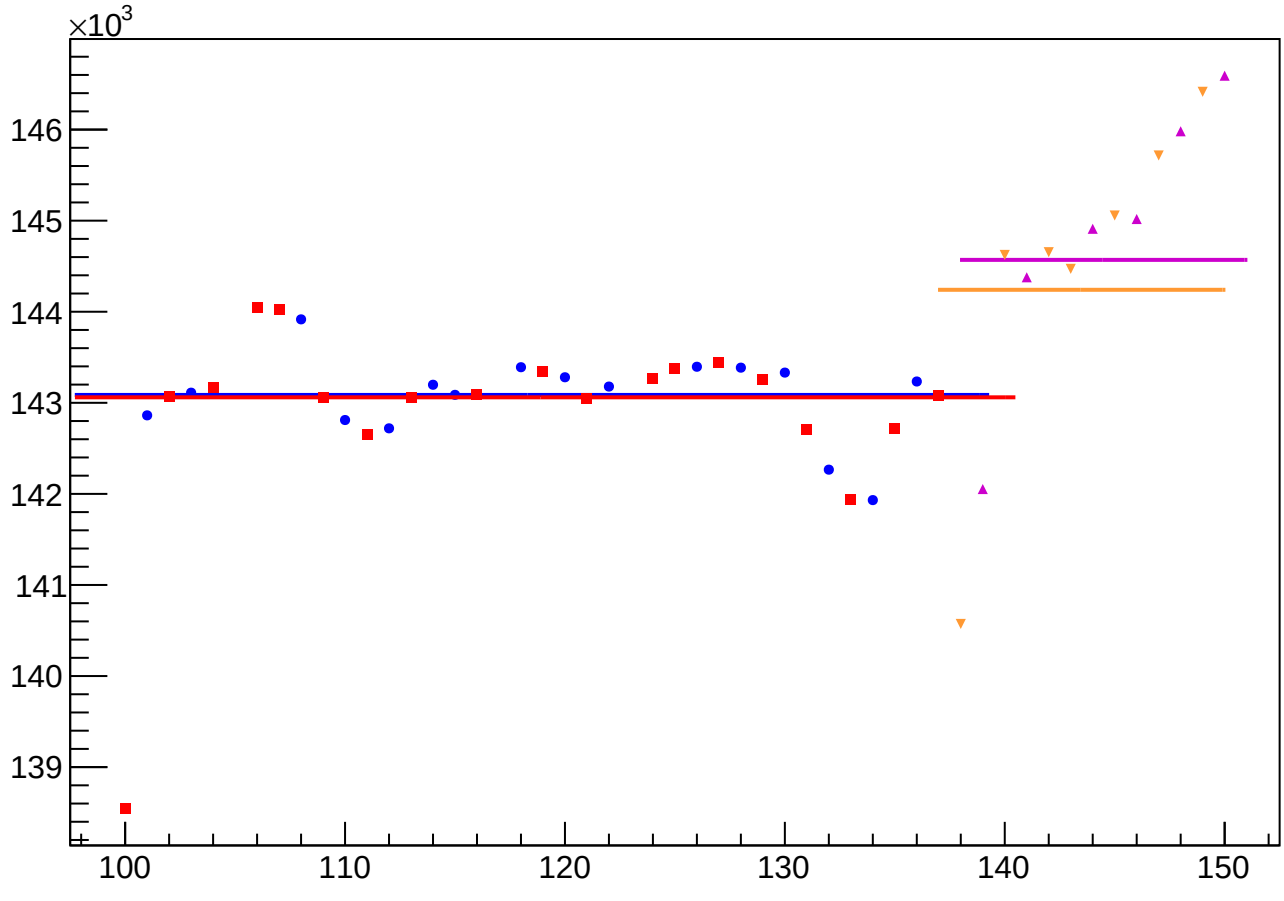
Left: 175.876+/-0.039 $\chi^2$/NDF: 565844.4/12

Right: 148.605+/-0.029 $\chi^2$/NDF: 2342954.4/34

In: 163.315+/-0.034 $\chi^2$/NDF:1472526.0/21

Out: 154.073+/-0.032 $\chi^2$/NDF:1708841.2/25

All: 158.387+/-0.023 $\chi^2$/NDF: 3220048.4/47




Right In: 143086.477+/-0.065 $\chi^2$/NDF: 46726277.8/15

Left Out: 144240.891+/-0.090 $\chi^2$/NDF:435868235.5/6

Right Out: 143060.268+/-0.061 $\chi^2$/NDF: 51715744.7/18

Left In: 144569.426+/-0.094 $\chi^2$/NDF:243828160.7/5

Left: 144396.547+/-0.065 $\chi^2$/NDF: 686068331.8/12

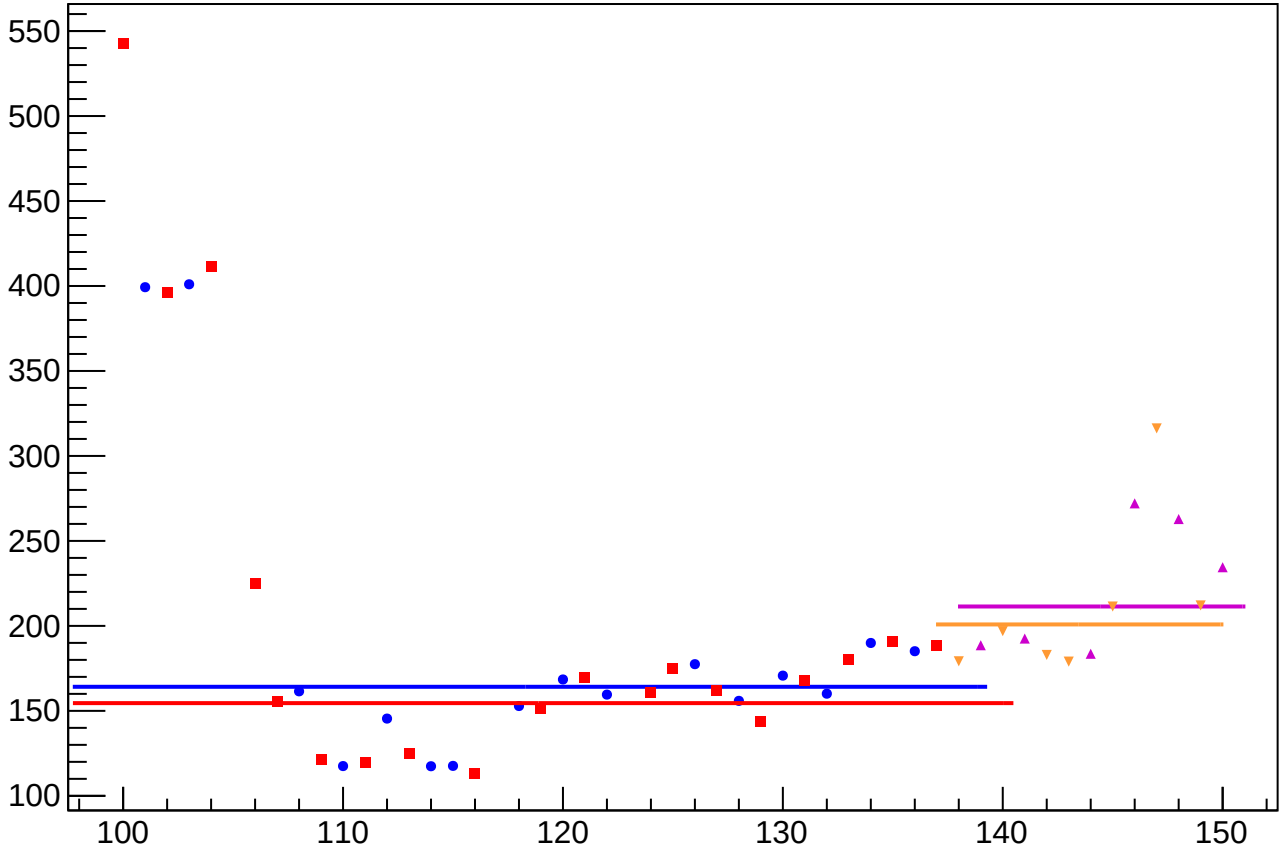
Right: 143072.451+/-0.044 $\chi^2$/NDF: 98528807.3/34

In: 143564.181+/-0.054 $\chi^2$/NDF:457796777.4/21

Out: 143431.370+/-0.050 $\chi^2$/NDF:606671468.6/25

All: 143493.483+/-0.037 $\chi^2$/NDF: 106773833

# yield_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 164.167+/-0.046 $\chi^2$/NDF: 1129764.4/15

Left Out: 200.855+/-0.063 $\chi^2$/NDF:280974.9/6

Right Out: 154.558+/-0.043 $\chi^2$/NDF: 1366830.5/18

Left In: 211.416+/-0.067 $\chi^2$/NDF:247218.8/5

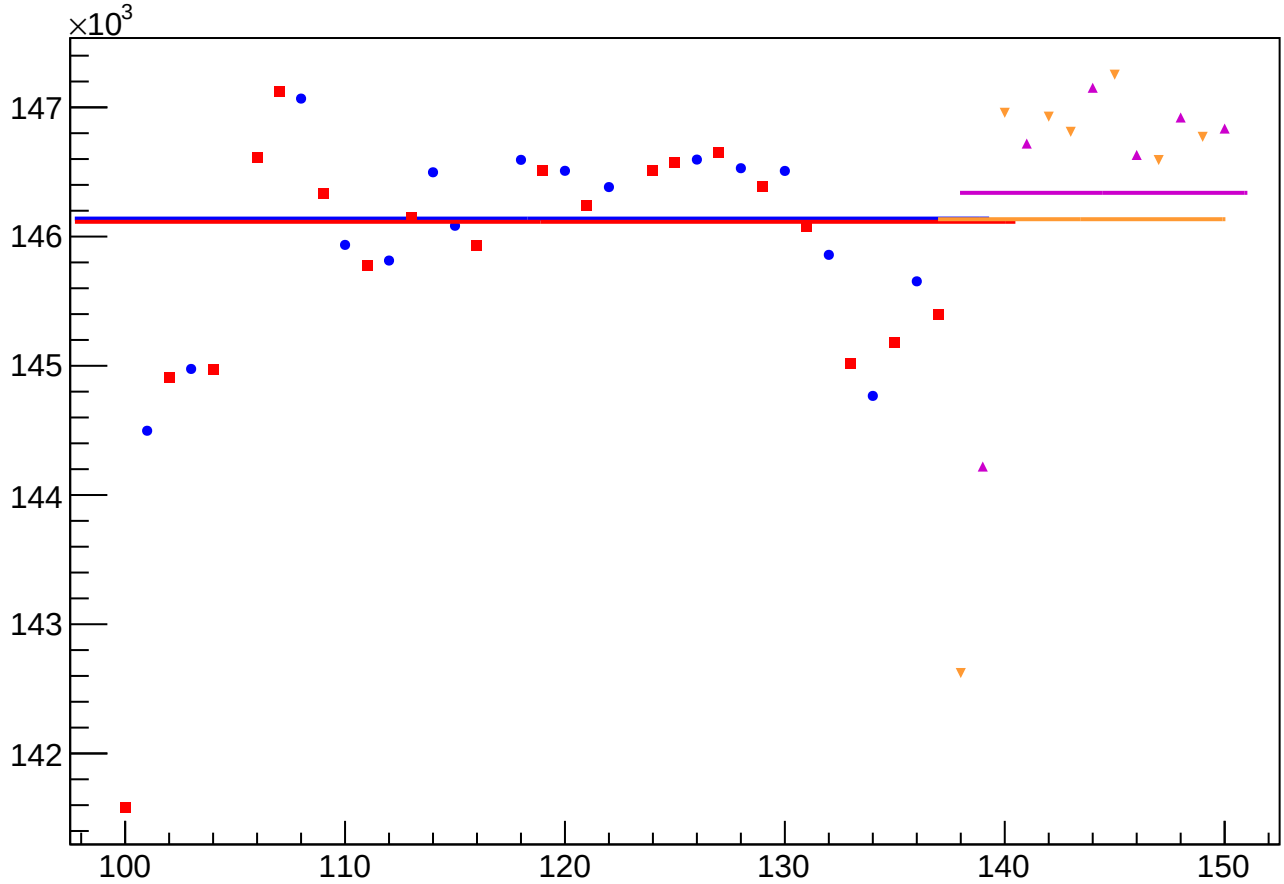
Left: 205.859+/-0.046 $\chi^2$/NDF: 541361.3/12

Right: 159.024+/-0.031 $\chi^2$/NDF: 2519924.8/34

In: 179.387+/-0.038 $\chi^2$/NDF:1716539.3/21

Out: 169.110+/-0.036 $\chi^2$/NDF:2014063.1/25

All: 173.917+/-0.026 $\chi^2$/NDF: 3769760.5/47




Right In: 146139.237+/-0.067 $\chi^2$/NDF: 71721843.8/15

Left Out: 146134.356+/-0.088 $\chi^2$/NDF:354057769.2/6

Right Out: 146114.458+/-0.062 $\chi^2$/NDF: 73102068.4/18

Left In: 146338.484+/-0.094 $\chi^2$/NDF:136128671.3/5

Left: 146230.167+/-0.064 $\chi^2$/NDF: 492714919.1/12

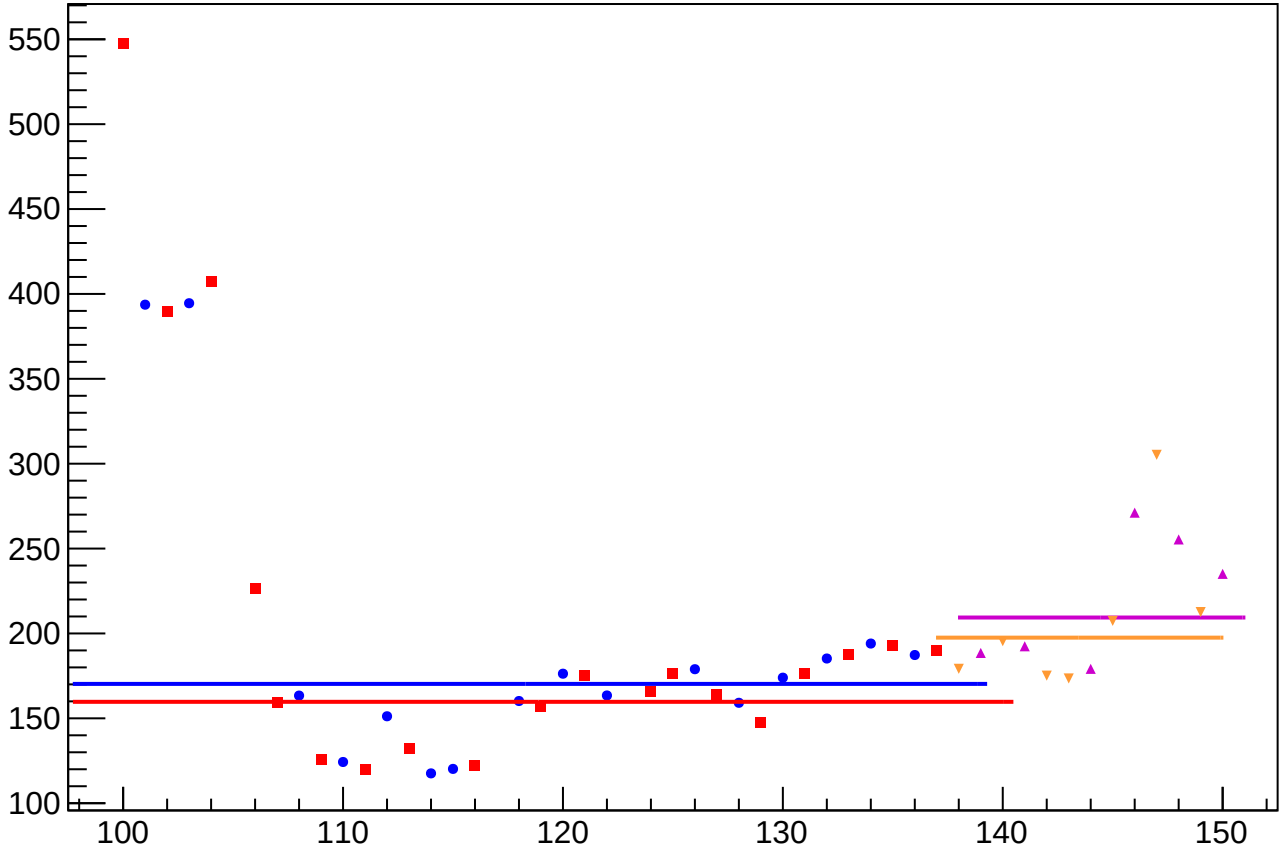
Right: 146125.912+/-0.046 $\chi^2$/NDF: 144896615.7/3

In: 146207.346+/-0.055 $\chi^2$/NDF:210838500.8/21

Out: 146121.132+/-0.051 $\chi^2$/NDF:427193853.2/25

All: 146161.191+/-0.037 $\chi^2$/NDF: 63936355

# yield_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 170.279+/-0.048 $\chi^2$/NDF: 1057631.0/15

Left Out: 197.530+/-0.062 $\chi^2$/NDF:276075.0/6

Right Out: 159.724+/-0.044 $\chi^2$/NDF: 1291290.8/18

Left In: 209.380+/-0.066 $\chi^2$/NDF:247678.4/5

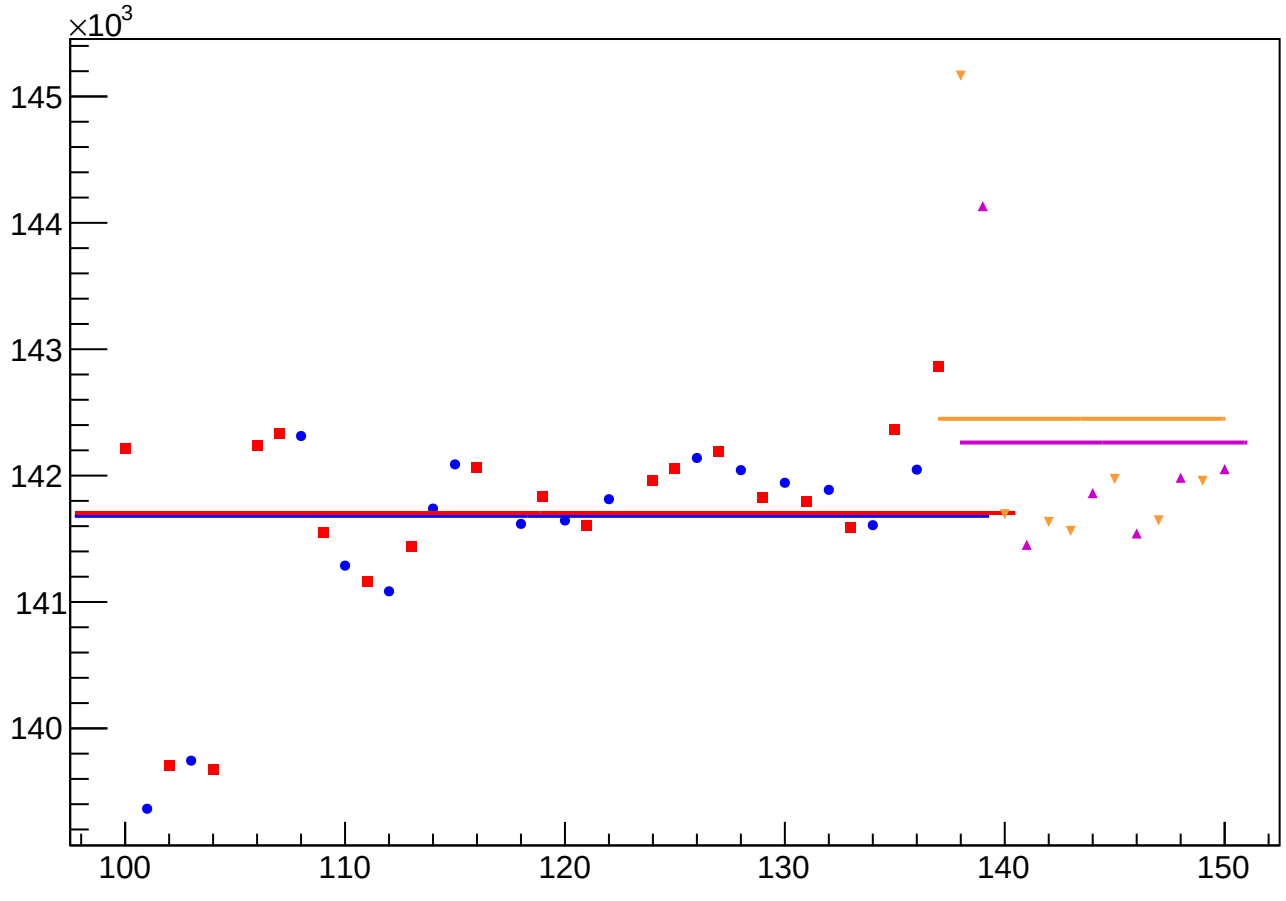
Left: 203.092+/-0.045 $\chi^2$/NDF: 540795.0/12

Right: 164.603+/-0.032 $\chi^2$/NDF: 2375303.6/34

In: 183.645+/-0.039 $\chi^2$/NDF:1535453.0/21

Out: 172.404+/-0.036 $\chi^2$/NDF:1812970.7/25

All: 177.627+/-0.026 $\chi^2$/NDF: 3393679.4/47




Right In: 141681.846+/-0.068 $\chi^2$/NDF: 64292997.9/15

Left Out: 142449.482+/-0.096 $\chi^2$/NDF:204851920.5/6

Right Out: 141704.185+/-0.064 $\chi^2$/NDF: 65526811.0/18

Left In: 142261.694+/-0.101 $\chi^2$/NDF:93530364.8/5

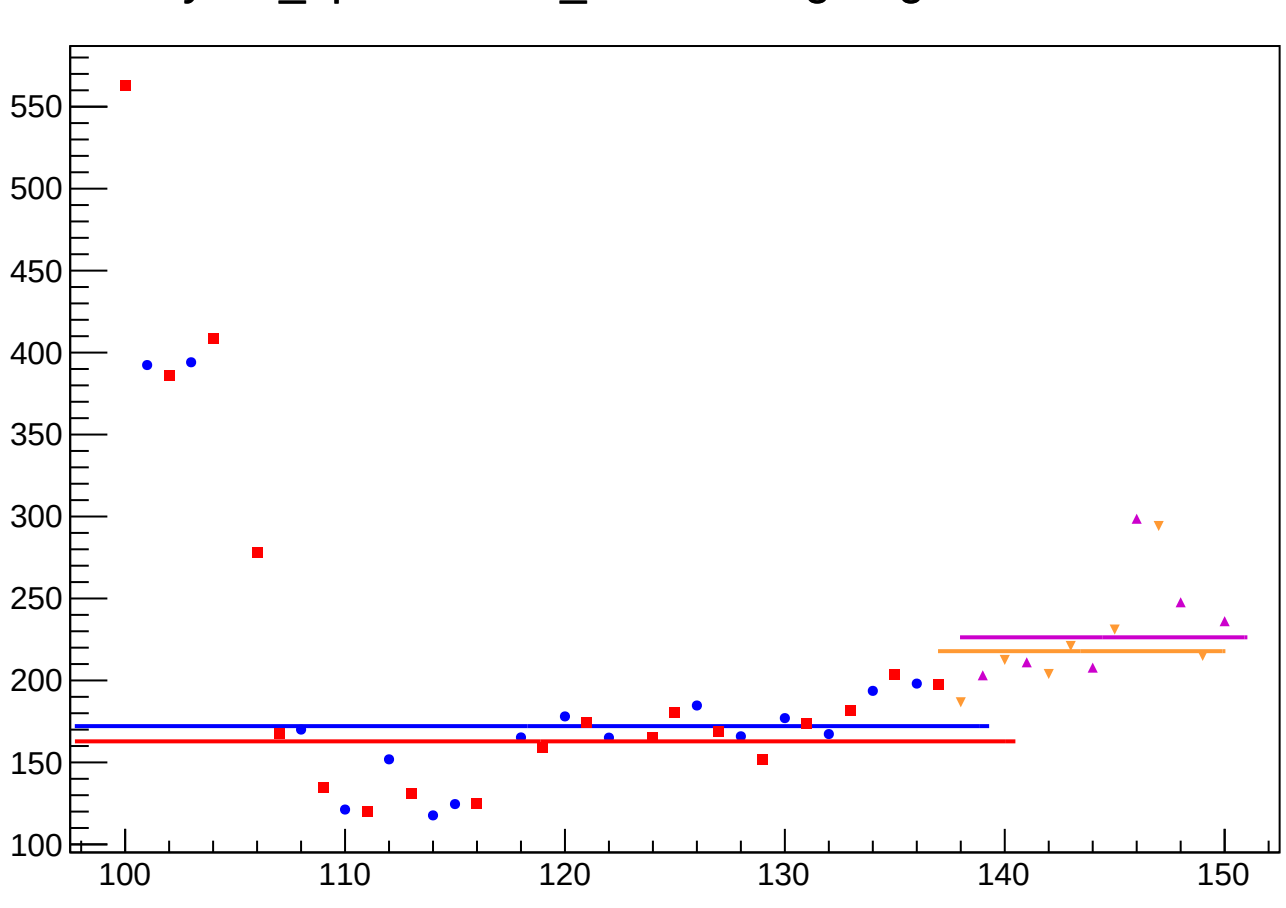
Left: 142359.844+/-0.070 $\chi^2$/NDF: 300202148.4/12

Right: 141693.772+/-0.047 $\chi^2$/NDF: 129876966.3/3

In: 141864.590+/-0.056 $\chi^2$/NDF:180558609.8/21

Out: 141931.906+/-0.053 $\chi^2$/NDF:312082956.5/25

All: 141900.294+/-0.039 $\chi^2$/NDF: 49339454




Right In: 172.139+/-0.048 $\chi^2$/NDF: 1068587.8/15

Left Out: 217.858+/-0.068 $\chi^2$/NDF:163805.7/6

Right Out: 162.845+/-0.045 $\chi^2$/NDF: 1305855.8/18

Left In: 226.310+/-0.071 $\chi^2$/NDF:161686.3/5

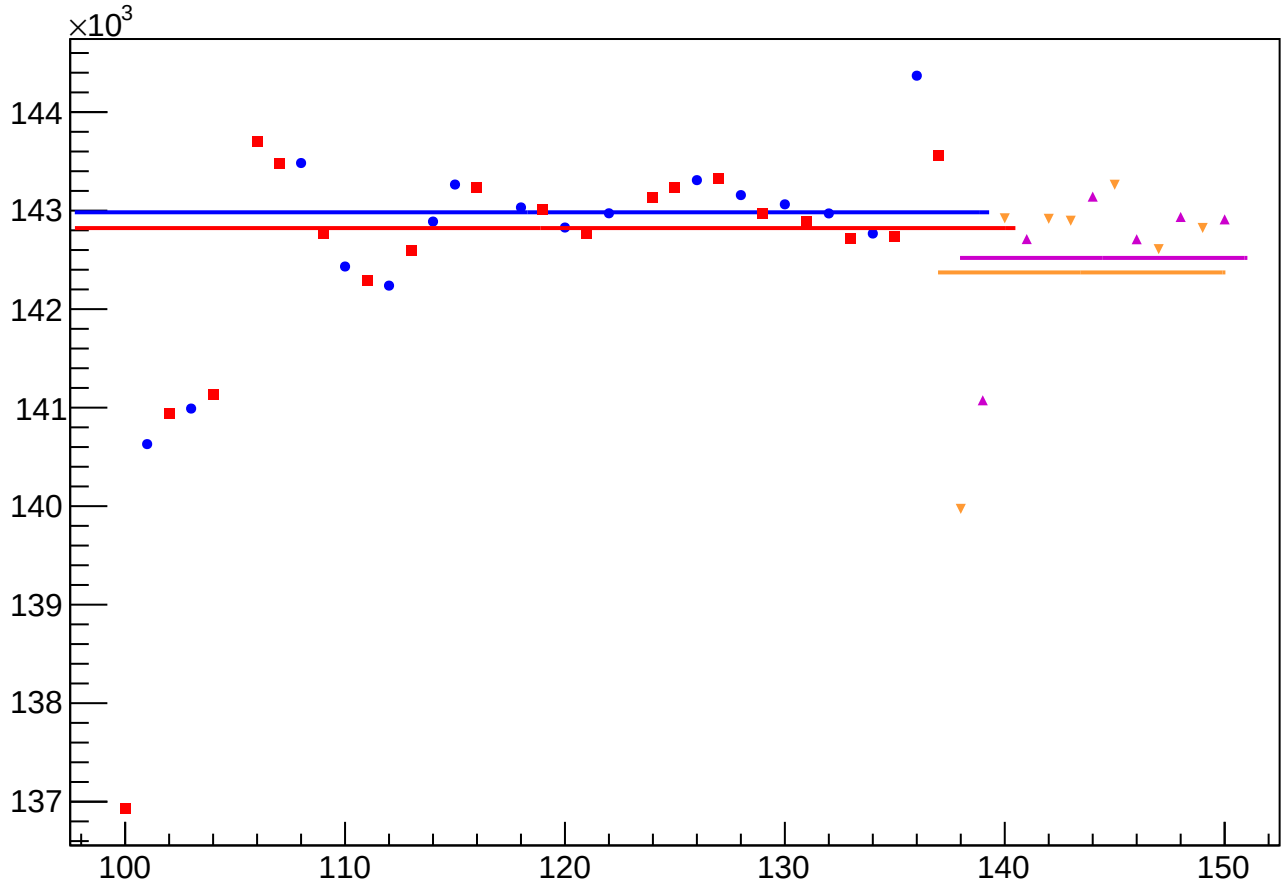
Left: 221.892+/-0.049 $\chi^2$/NDF: 332865.7/12

Right: 167.177+/-0.033 $\chi^2$/NDF: 2394232.5/34

In: 189.211+/-0.040 $\chi^2$/NDF:1627132.1/21

Out: 179.654+/-0.038 $\chi^2$/NDF:1924105.2/25

All: 184.142+/-0.027 $\chi^2$/NDF: 3581596.2/47




Right In: 142983.006+/-0.069 $\chi^2$/NDF: 107696217.2/15

Left Out: 142372.543+/-0.086 $\chi^2$/NDF:185016597.7/6

Right Out: 142822.727+/-0.064 $\chi^2$/NDF: 63581232.6/18

Left In: 142519.907+/-0.092 $\chi^2$/NDF:69293845.3/5

Left: 142441.602+/-0.063 $\chi^2$/NDF: 255683691.4/12

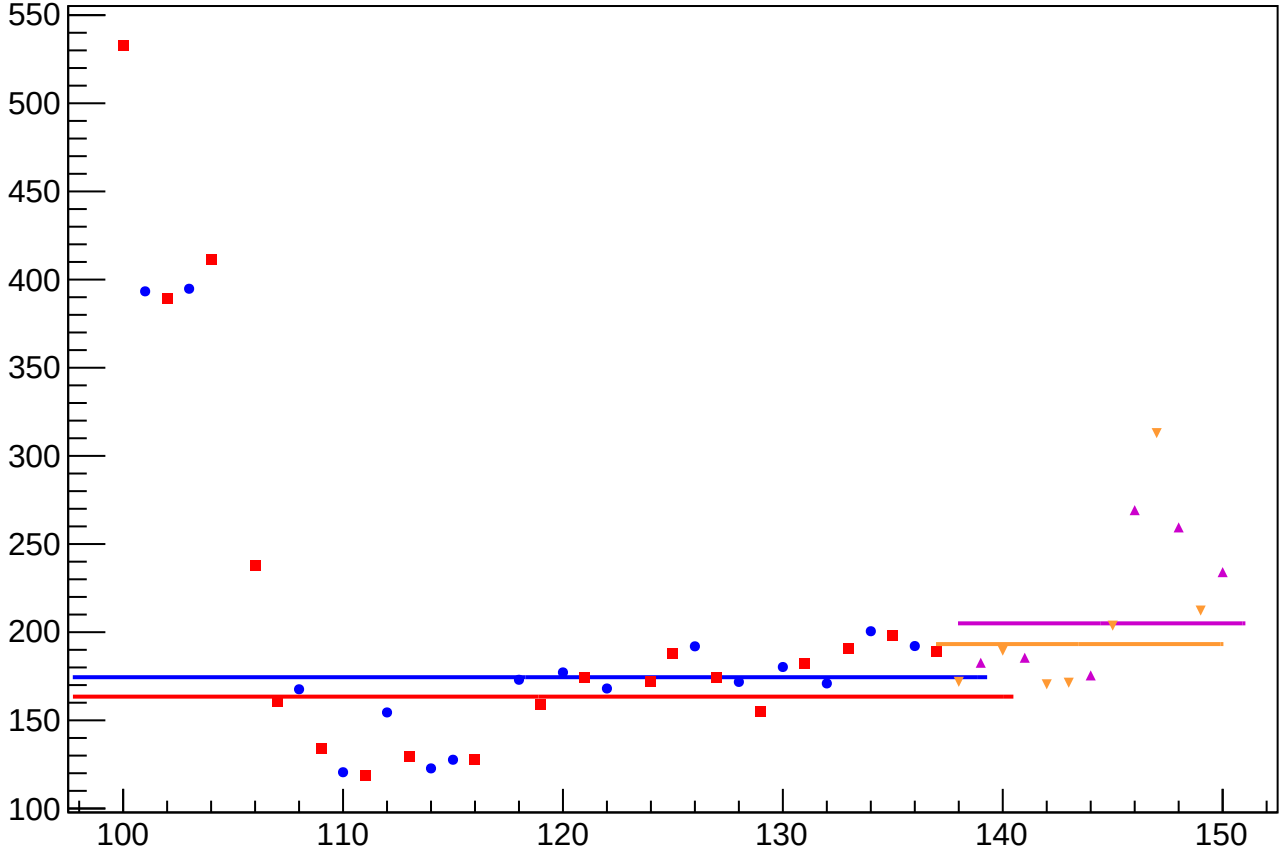
Right: 142896.762+/-0.047 $\chi^2$/NDF: 174171580.7/3

In: 142815.176+/-0.055 $\chi^2$/NDF:193262633.7/21

Out: 142662.373+/-0.051 $\chi^2$/NDF:266204319.0/25

All: 142733.323+/-0.038 $\chi^2$/NDF: 46357402

# yield_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 174.467+/-0.049 $\chi^2$/NDF: 1049126.7/15

Left Out: 193.258+/-0.061 $\chi^2$/NDF:322384.1/6

Right Out: 163.448+/-0.045 $\chi^2$/NDF: 1282494.1/18

Left In: 205.013+/-0.065 $\chi^2$/NDF:291552.9/5

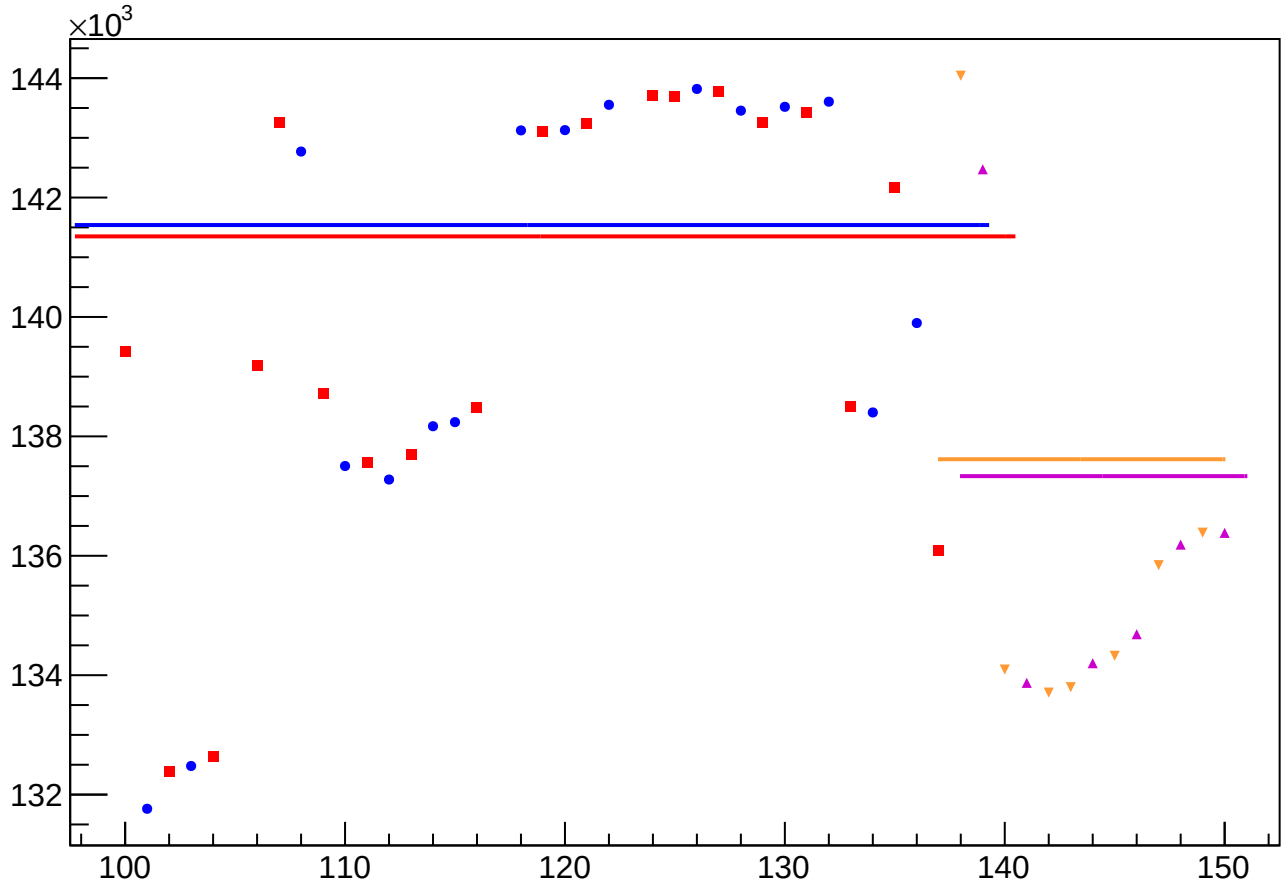
Left: 198.766+/-0.044 $\chi^2$/NDF: 631412.0/12

Right: 168.538+/-0.033 $\chi^2$/NDF: 2358977.1/34

In: 185.537+/-0.039 $\chi^2$/NDF:1482270.9/21

Out: 174.066+/-0.036 $\chi^2$/NDF:1759274.9/25

All: 179.392+/-0.027 $\chi^2$/NDF: 3287834.2/47




Right In: 141539.467+/-0.101 $\chi^2$/NDF: 947743743.7/15

Left Out: 137616.966+/-0.135 $\chi^2$/NDF:1065285075.6/6

Right Out: 141349.499+/-0.101 $\chi^2$/NDF: 926661757.9/18

Left In: 137333.923+/-0.140 $\chi^2$/NDF:652535426.0/5

Left: 137480.690+/-0.097 $\chi^2$/NDF: 1719934473.4/1

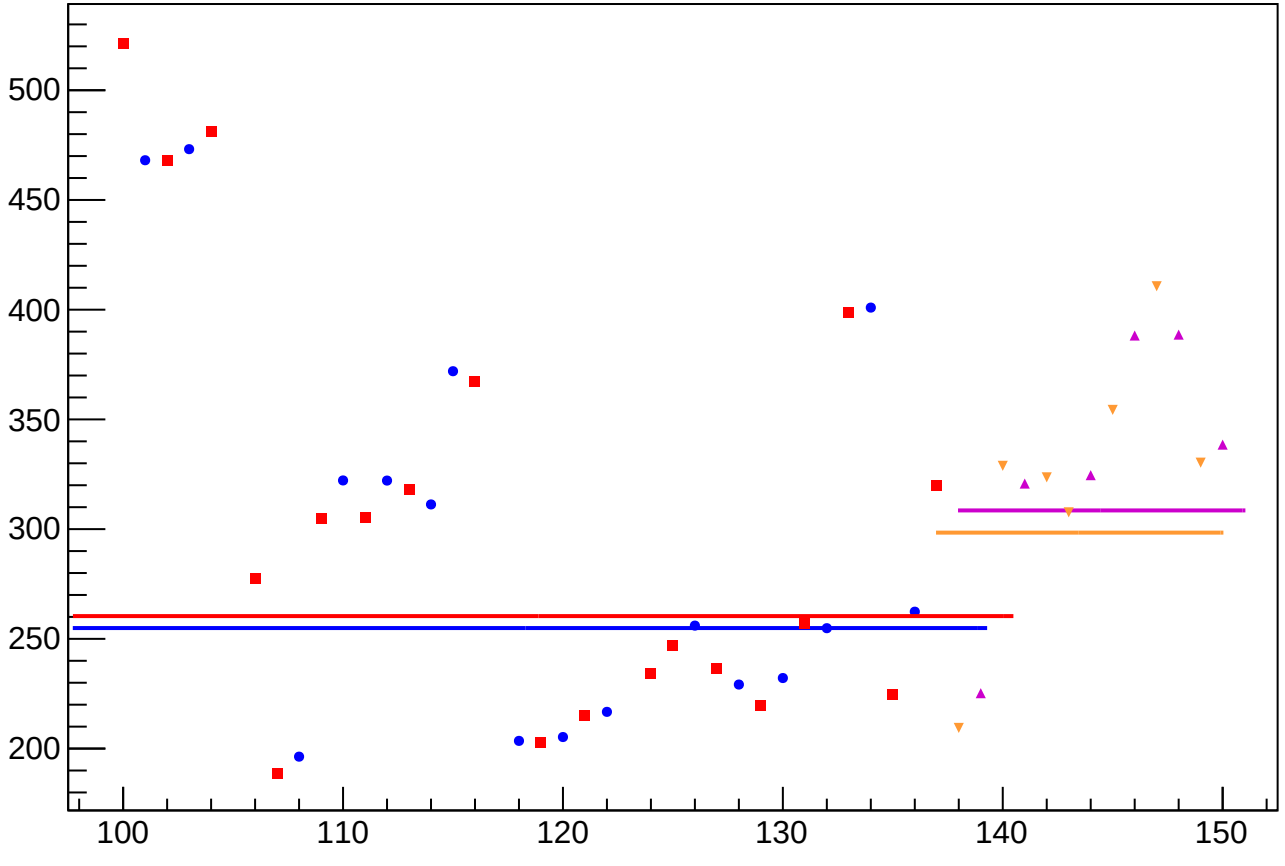
Right: 141444.713+/-0.071 $\chi^2$/NDF: 1876176691.0/

In: 140105.895+/-0.082 $\chi^2$/NDF:2193517747.1/21

Out: 140010.098+/-0.081 $\chi^2$/NDF:2481500489.4/2

All: 140057.450+/-0.058 $\chi^2$/NDF: 467571104

# yield_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 254.919+/-0.071 $\chi^2$/NDF: 949952.1/15

Left Out: 298.408+/-0.096 $\chi^2$/NDF:465836.9/6

Right Out: 260.369+/-0.071 $\chi^2$/NDF: 993300.6/18

Left In: 308.523+/-0.099 $\chi^2$/NDF:380249.9/5

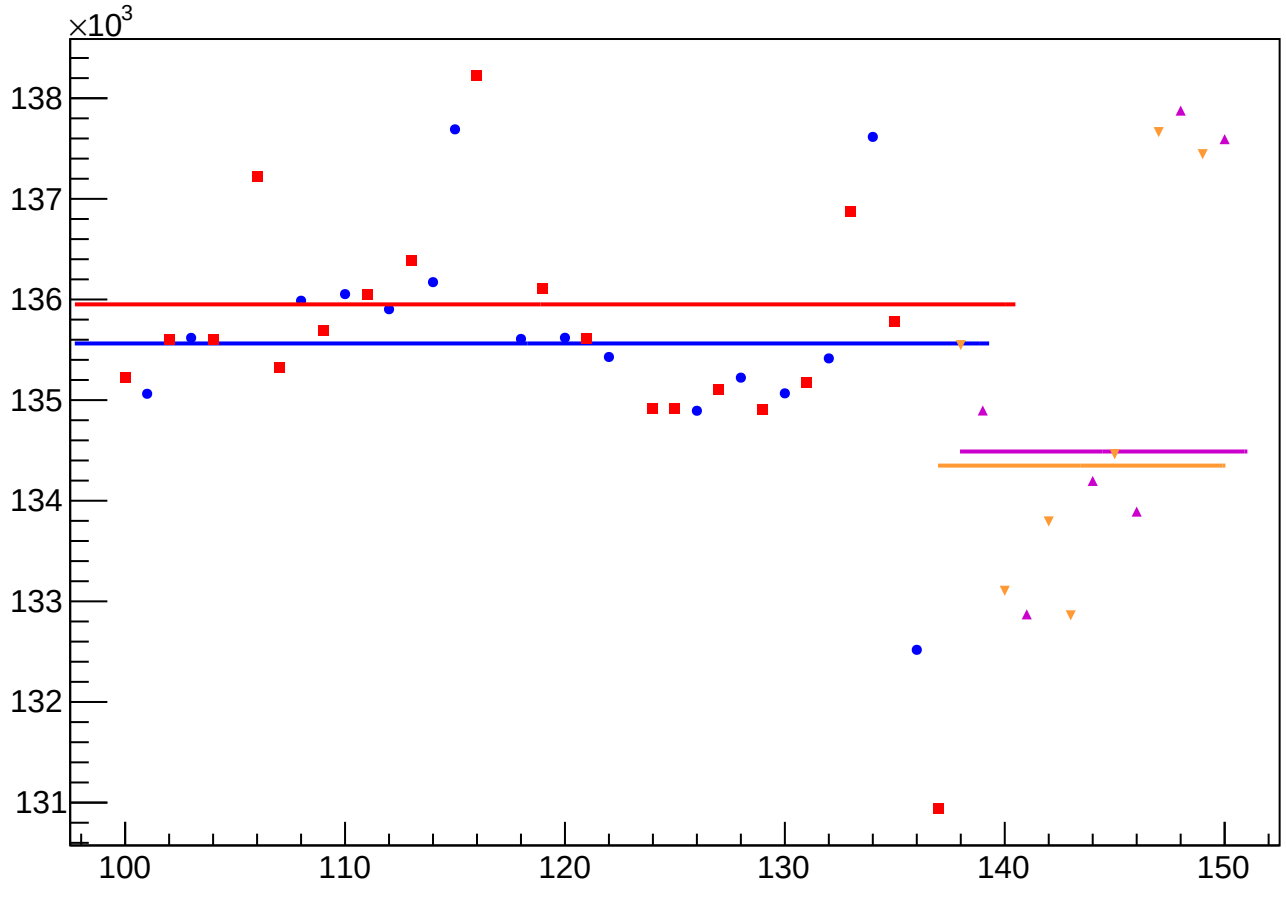
Left: 303.278+/-0.069 $\chi^2$/NDF: 851485.9/12

Right: 257.637+/-0.050 $\chi^2$/NDF: 1946167.7/34

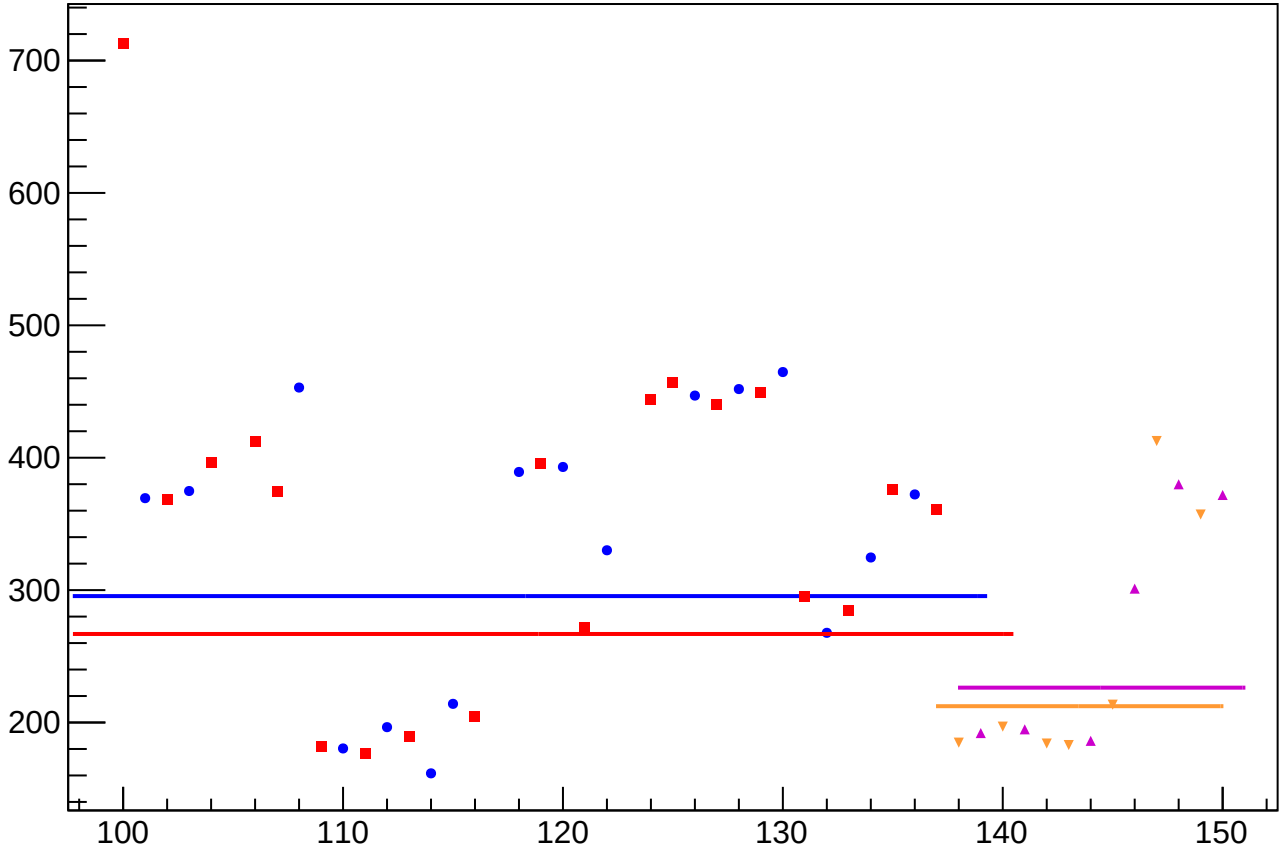
In: 273.191+/-0.058 $\chi^2$/NDF:1522956.1/21

Out: 274.019+/-0.057 $\chi^2$/NDF:1560831.7/25

All: 273.610+/-0.041 $\chi^2$/NDF: 3083891.2/47


yield_bpm0r05WS_mean vs Slug, Sign Corrected
×10^3
138
137
136
135
134
133
132
131
100
110
120
130
140
150
Right In: 135563.062+/-0.118 χ²/NDF: 94169293.7/15
Left Out: 134349.220+/-0.097 χ²/NDF:232189623.5/6
Right Out: 135951.486+/-0.106 χ²/NDF: 91577209.6/18
Left In: 134489.306+/-0.105 χ²/NDF:195184333.4/5
Left: 134414.179+/-0.071 χ²/NDF: 428335365.8/12
Right: 135777.958+/-0.079 χ²/NDF: 191705440.0/3
In: 134960.326+/-0.078 χ²/NDF:335556393.8/21
Out: 135079.168+/-0.072 χ²/NDF:447333893.4/25
All: 135024.963+/-0.053 χ²/NDF: 78414041

# yield_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 295.481+/-0.084 $\chi^2$/NDF: 1442531.9/15

Left Out: 212.316+/-0.069 $\chi^2$/NDF:764399.7/6

Right Out: 266.864+/-0.075 $\chi^2$/NDF: 1678073.6/18

Left In: 226.324+/-0.074 $\chi^2$/NDF:823242.0/5

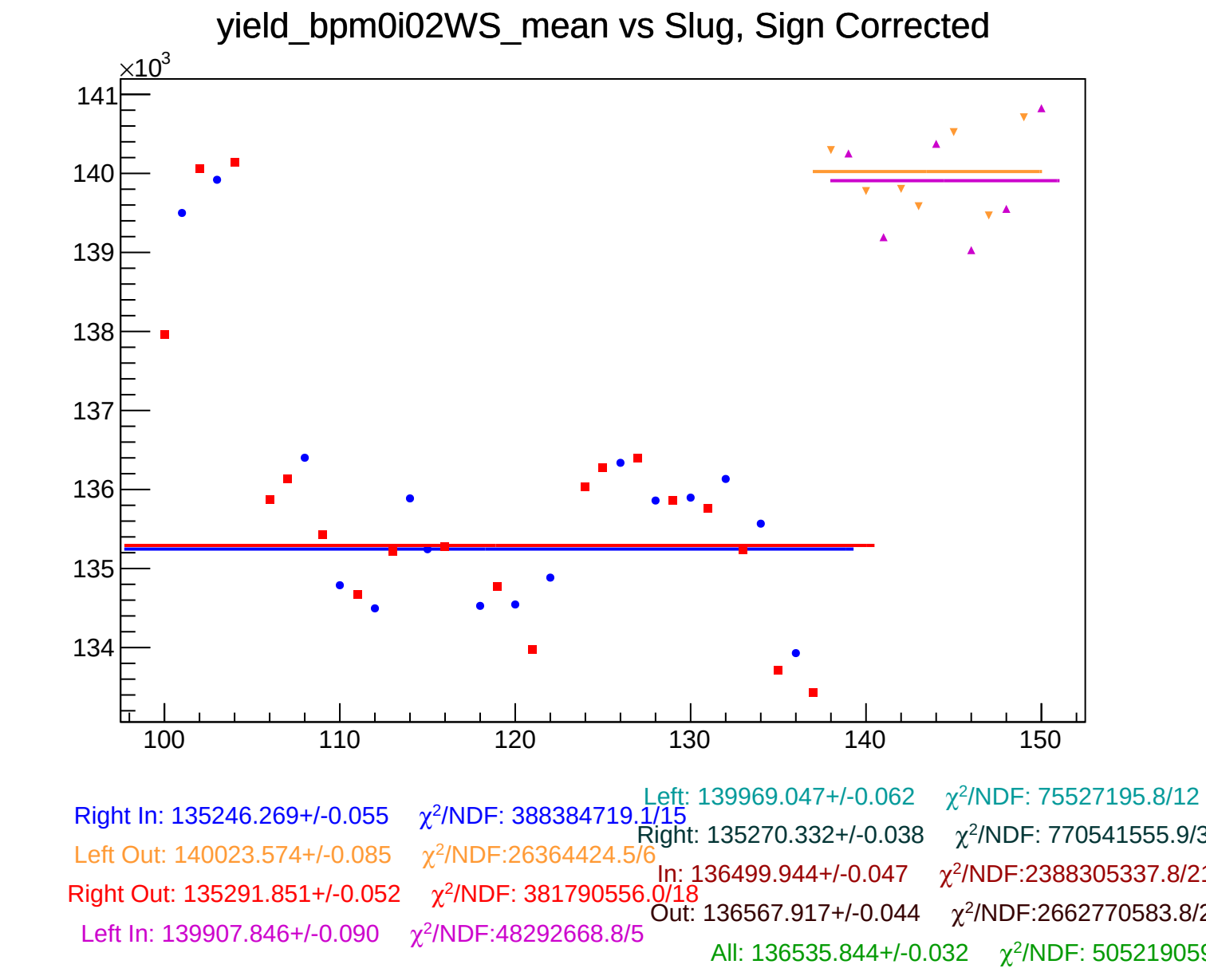
Left: 218.812+/-0.050 $\chi^2$/NDF: 1606870.4/12

Right: 279.649+/-0.056 $\chi^2$/NDF: 3185297.4/34

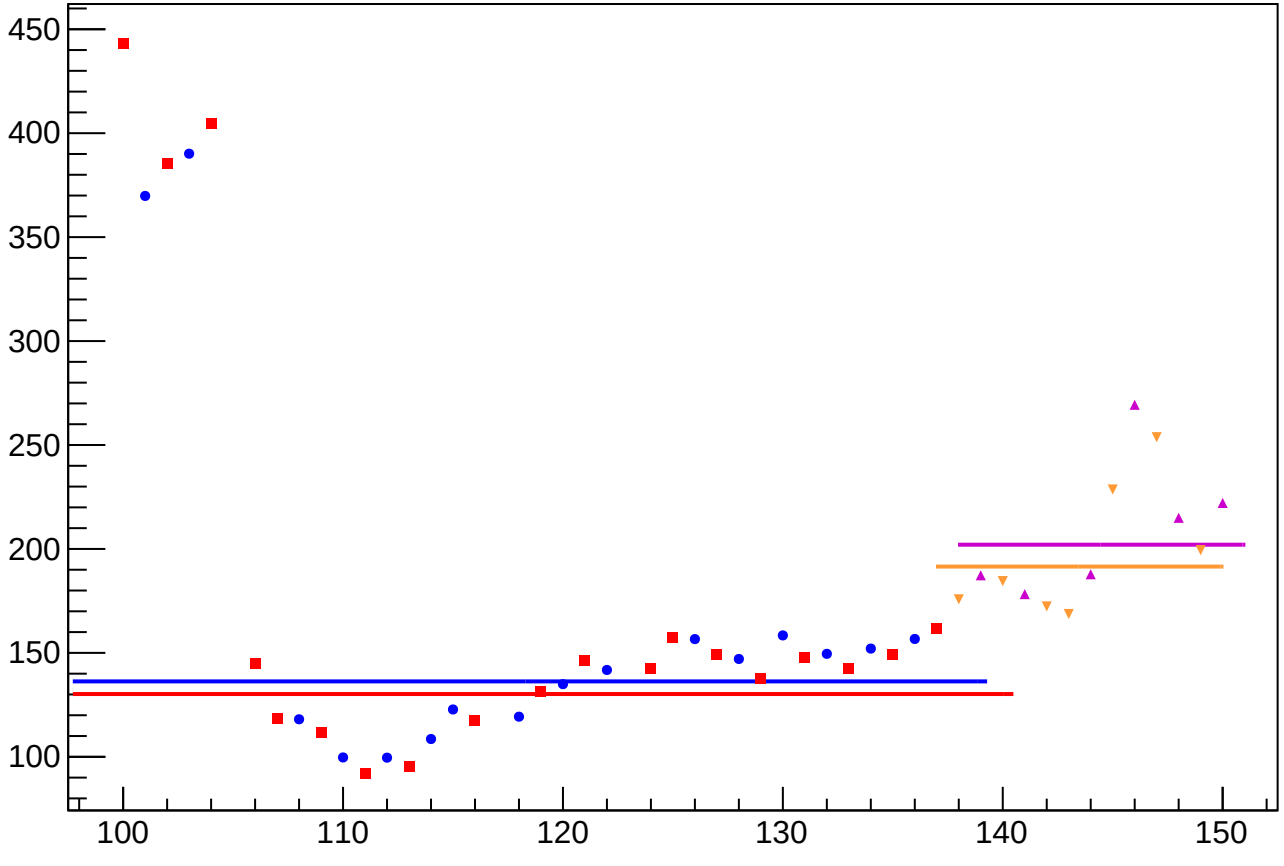
In: 256.661+/-0.055 $\chi^2$/NDF:2649092.9/21

Out: 237.166+/-0.051 $\chi^2$/NDF:2728909.0/25

All: 246.058+/-0.037 $\chi^2$/NDF: 5445280.7/47


yield_bpm0i02WS_mean vs Slug, Sign Corrected
×10^3
141
140
139
138
137
136
135
134
100
110
120
130
140
150
Right In: 135246.269+/-0.055 χ²/NDF: 388384719.1/15
Left Out: 140023.574+/-0.085 χ²/NDF:26364424.5/6
Right Out: 135291.851+/-0.052 χ²/NDF: 381790556.0/18
Left In: 139907.846+/-0.090 χ²/NDF:48292668.8/5
Left: 139969.047+/-0.062 χ²/NDF: 75527195.8/12
Right: 135270.332+/-0.038 χ²/NDF: 770541555.9/3
In: 136499.944+/-0.047 χ²/NDF:2388305337.8/21
Out: 136567.917+/-0.044 χ²/NDF:2662770583.8/2
All: 136535.844+/-0.032 χ²/NDF: 505219059

# yield_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 136.285+/-0.039 $\chi^2$/NDF: 1384057.4/15

Left Out: 191.525+/-0.060 $\chi^2$/NDF:191490.0/6

Right Out: 130.206+/-0.037 $\chi^2$/NDF: 1520840.8/18

Left In: 202.038+/-0.064 $\chi^2$/NDF:176288.3/5

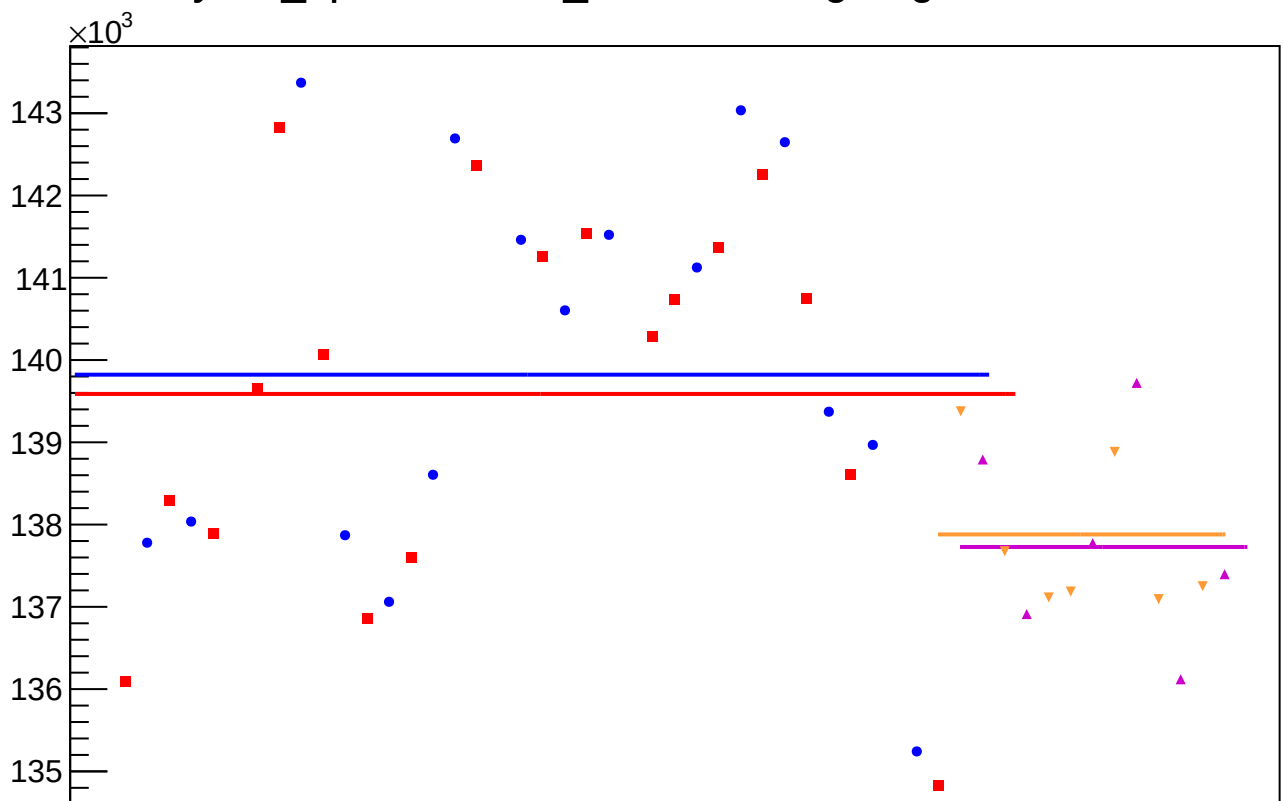
Left: 196.478+/-0.044 $\chi^2$/NDF: 382140.0/12

Right: 133.076+/-0.027 $\chi^2$/NDF: 2917928.2/34

In: 153.968+/-0.033 $\chi^2$/NDF:2336938.8/21

Out: 146.743+/-0.031 $\chi^2$/NDF:2469605.9/25

All: 150.152+/-0.023 $\chi^2$/NDF: 4831739.1/47




Right In: 139822.122+/-0.063 $\chi^2$/NDF: 1663381581.4/15

Left Out: 137880.332+/-0.085 $\chi^2$/NDF:111441743.9/6

Right Out: 139587.876+/-0.060 $\chi^2$/NDF: 1482934186.2/18

Left In: 137727.649+/-0.091 $\chi^2$/NDF:135131227.7/5

Left: 137808.761+/-0.062 $\chi^2$/NDF: 248073632.7/12

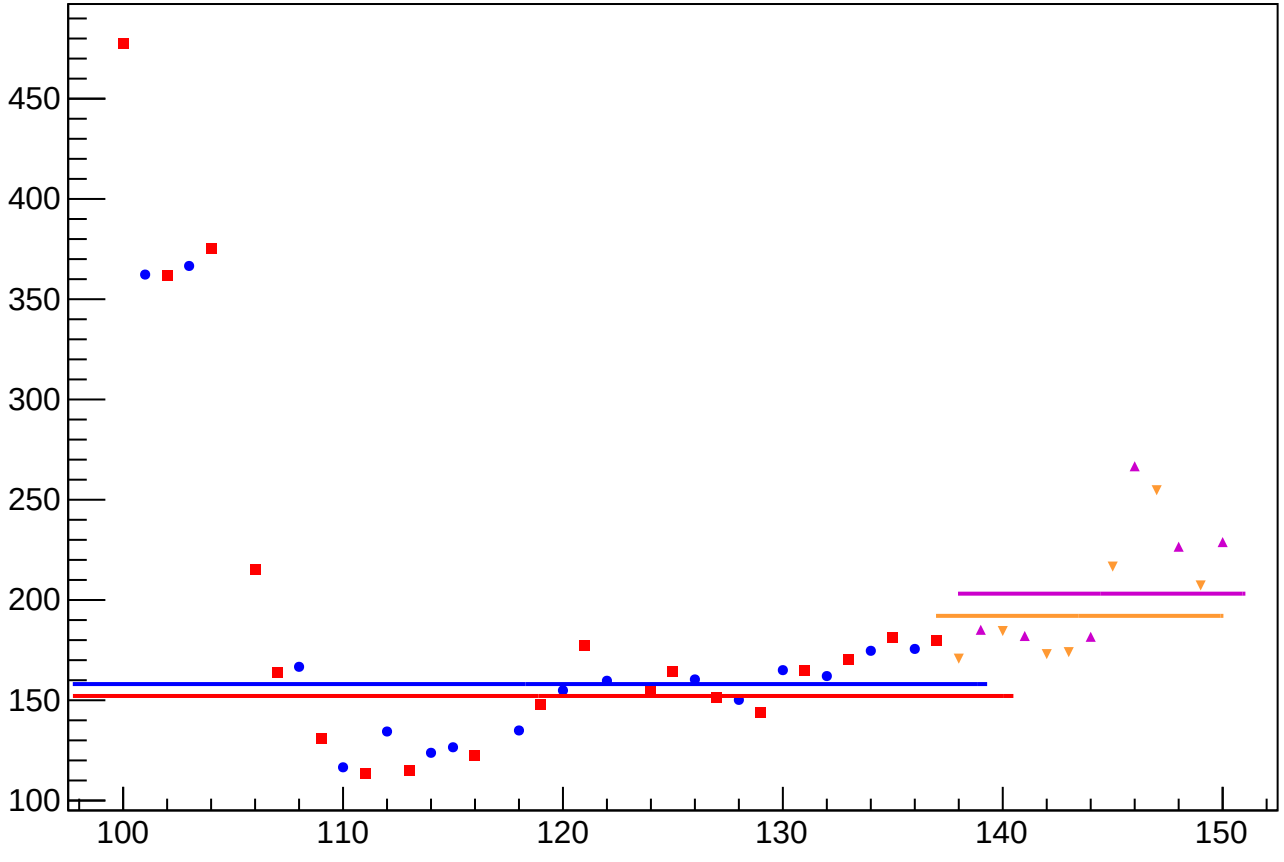
Right: 139699.515+/-0.043 $\chi^2$/NDF: 3153646641.6/

In: 139147.901+/-0.052 $\chi^2$/NDF:2158961042.6/21

Out: 139026.429+/-0.049 $\chi^2$/NDF:1863125959.2/2

All: 139084.011+/-0.035 $\chi^2$/NDF: 40250083

# yield_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 158.079+/-0.044 $\chi^2$/NDF: 1017928.9/15

Left Out: 192.096+/-0.060 $\chi^2$/NDF:179564.2/6

Right Out: 152.139+/-0.042 $\chi^2$/NDF: 1229053.9/18

Left In: 203.161+/-0.064 $\chi^2$/NDF:200780.0/5

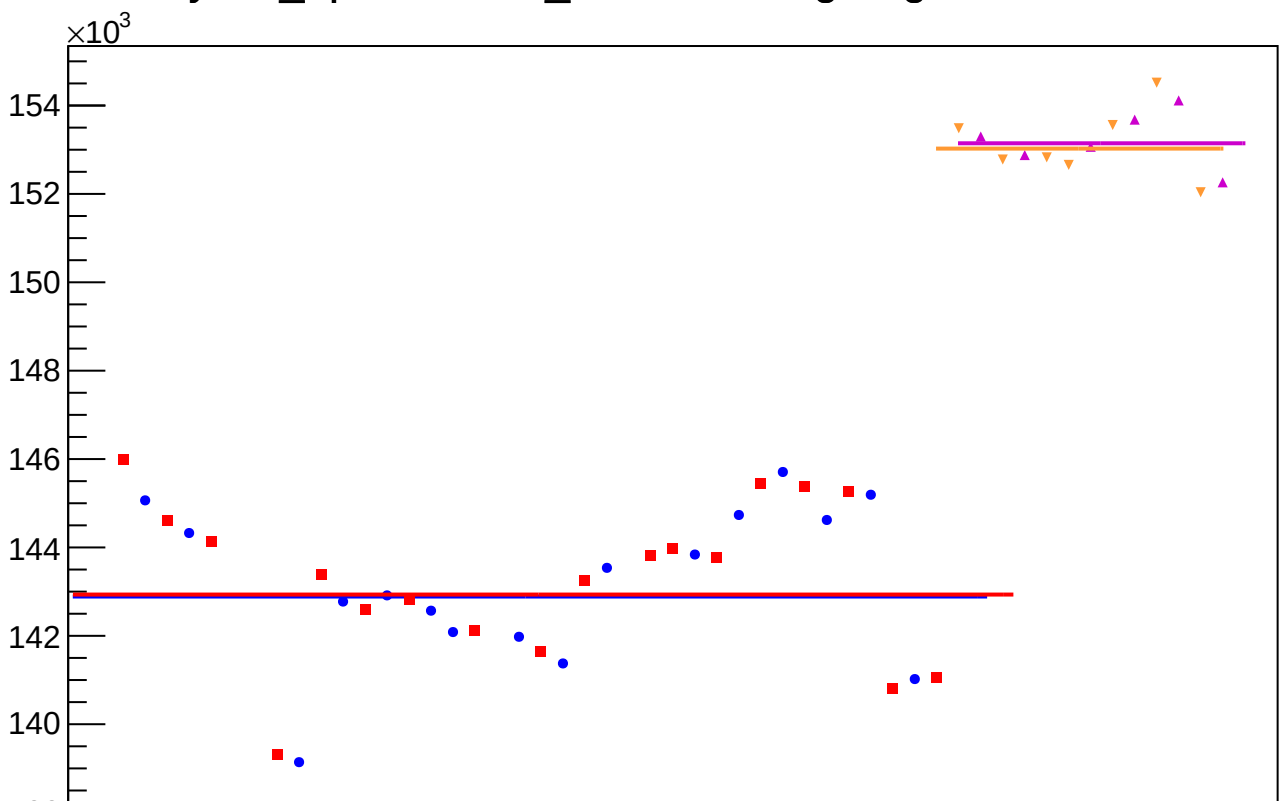
Left: 197.283+/-0.044 $\chi^2$/NDF: 396107.0/12

Right: 154.970+/-0.031 $\chi^2$/NDF: 2256411.8/34

In: 172.591+/-0.036 $\chi^2$/NDF:1552697.3/21

Out: 165.277+/-0.035 $\chi^2$/NDF:1702945.2/25

All: 168.744+/-0.025 $\chi^2$/NDF: 3276826.6/47




Right In: 142889.386+/-0.066 $\chi^2$/NDF: 763303771.6/15

Left Out: 153025.416+/-0.086 $\chi^2$/NDF:61840214.5/6

Right Out: 142933.890+/-0.062 $\chi^2$/NDF: 787386856.4/18

Left In: 153145.754+/-0.091 $\chi^2$/NDF:33717374.9/5

Left: 153082.248+/-0.063 $\chi^2$/NDF: 96479954.8/12

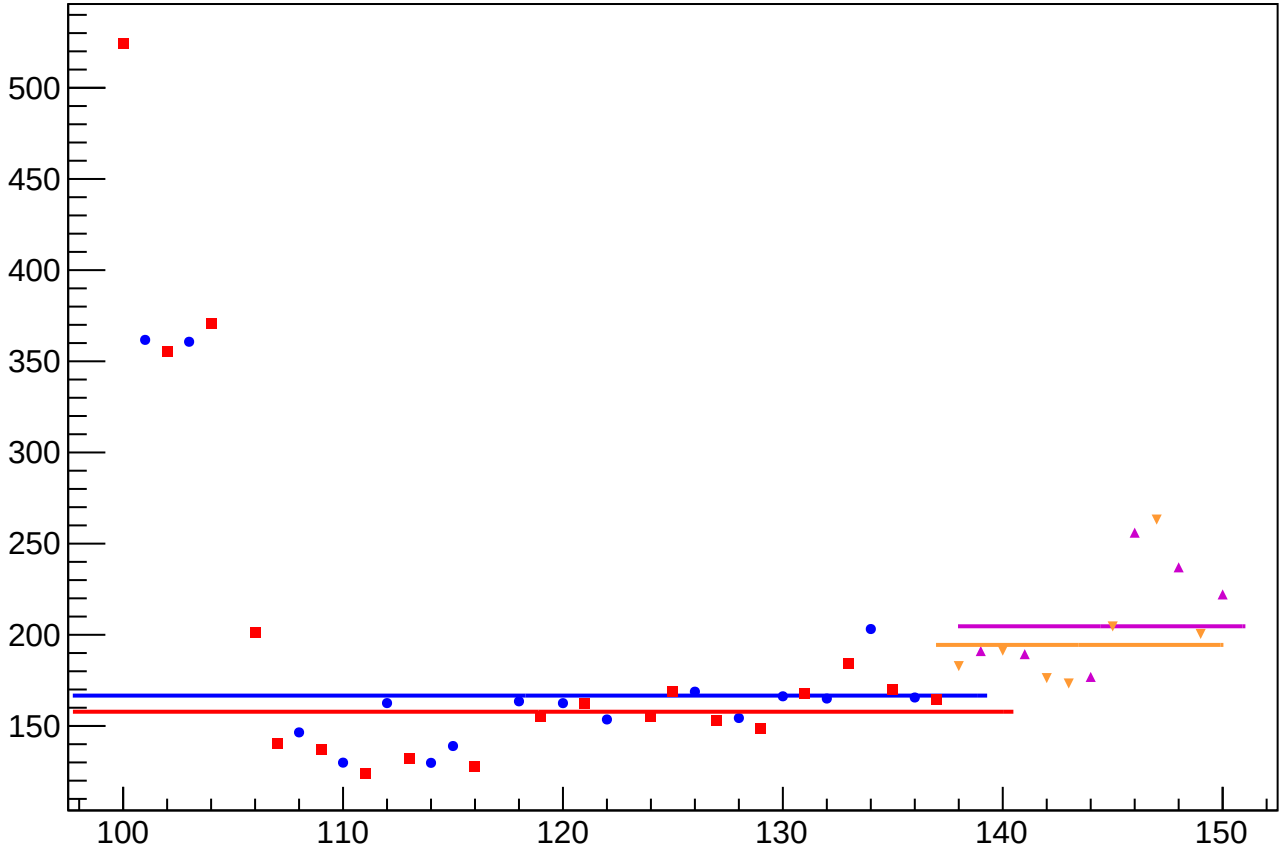
Right: 142913.088+/-0.045 $\chi^2$/NDF: 1550935114.7/

In: 146401.390+/-0.053 $\chi^2$/NDF:9145728811.5/21

Out: 146345.462+/-0.050 $\chi^2$/NDF:9940864646.4/2

All: 146371.696+/-0.036 $\chi^2$/NDF: 19087178

# yield_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 166.656+/-0.046 $\chi^2$/NDF: 863574.7/15

Left Out: 194.459+/-0.061 $\chi^2$/NDF:155626.6/6

Right Out: 157.809+/-0.044 $\chi^2$/NDF: 1022332.1/18

Left In: 204.671+/-0.064 $\chi^2$/NDF:174101.8/5

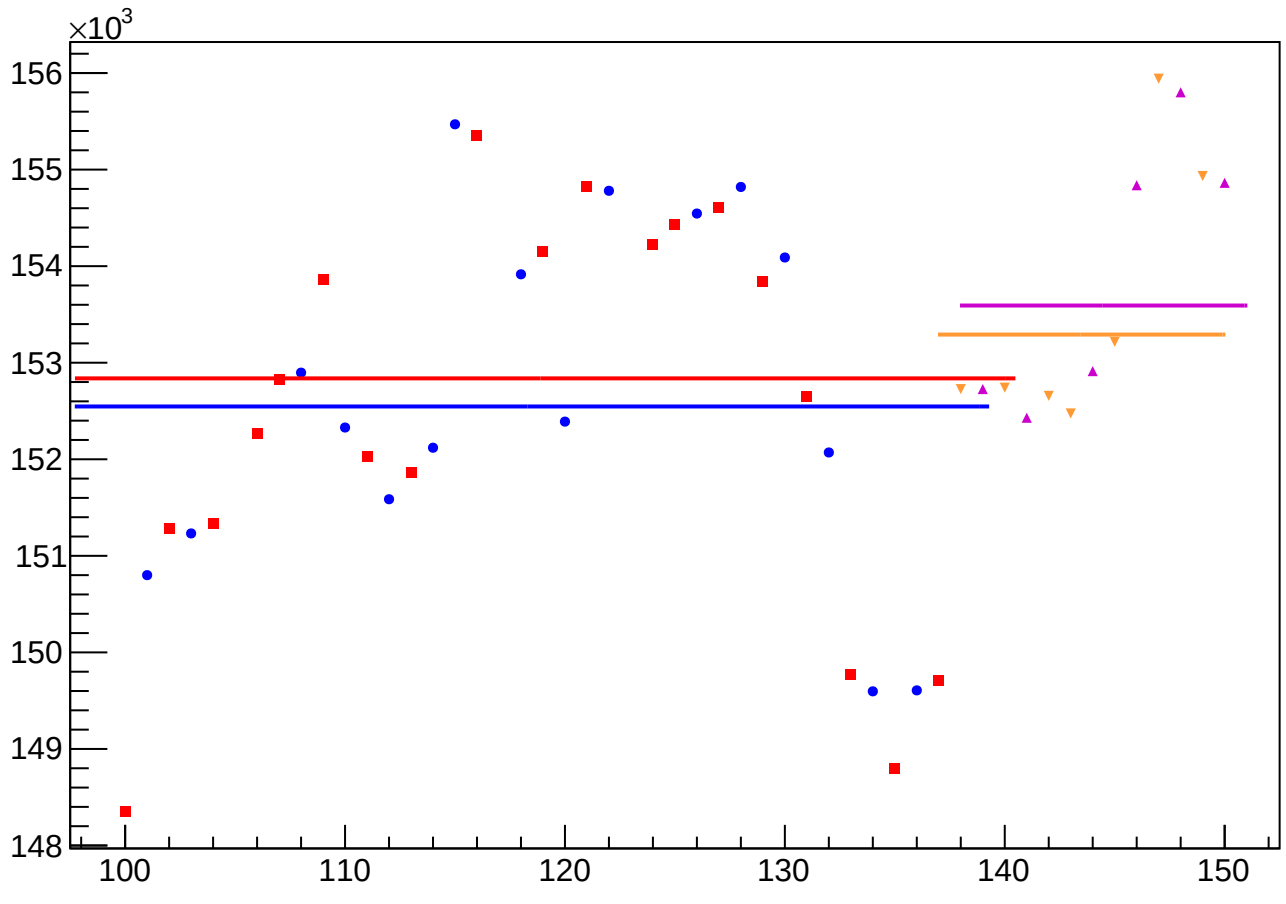
Left: 199.281+/-0.044 $\chi^2$/NDF: 343013.6/12

Right: 161.945+/-0.032 $\chi^2$/NDF: 1905231.4/34

In: 179.673+/-0.038 $\chi^2$/NDF:1267056.9/21

Out: 170.199+/-0.035 $\chi^2$/NDF:1417784.6/25

All: 174.643+/-0.026 $\chi^2$/NDF: 2718438.4/47




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 153291.482+/-0.086 $\chi^2$/NDF:163004599.2/6

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 153592.305+/-0.092 $\chi^2$/NDF:175277289.0/5

Left: 153431.638+/-0.063 $\chi^2$/NDF: 343954969.0/12

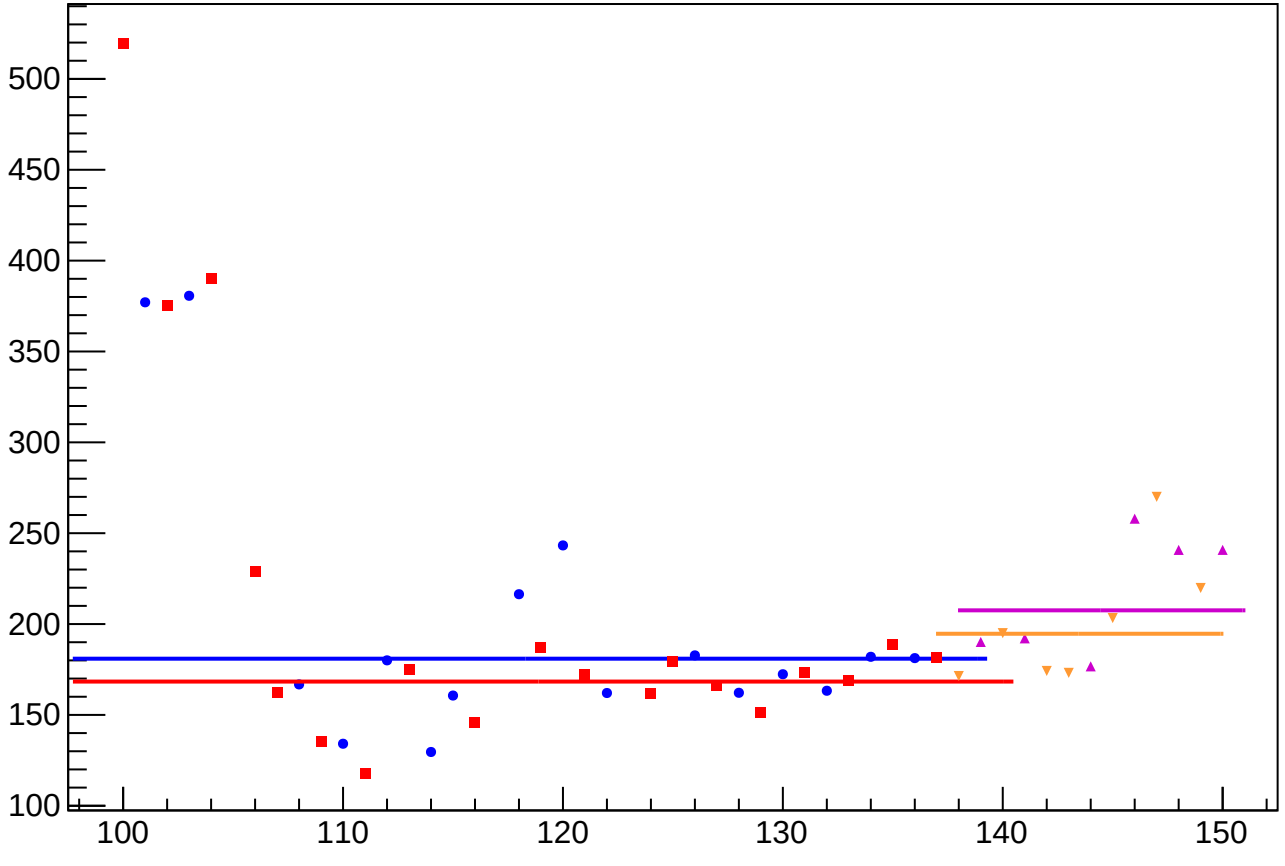
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0/

In: 152946.564+/-0.057 $\chi^2$/NDF:909054141.4/21

Out: 153007.612+/-0.053 $\chi^2$/NDF:917236920.1/25

All: 152979.495+/-0.039 $\chi^2$/NDF: 18269083

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 194.661+/-0.061 $\chi^2$/NDF:216131.5/6

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 207.548+/-0.065 $\chi^2$/NDF:210688.8/5

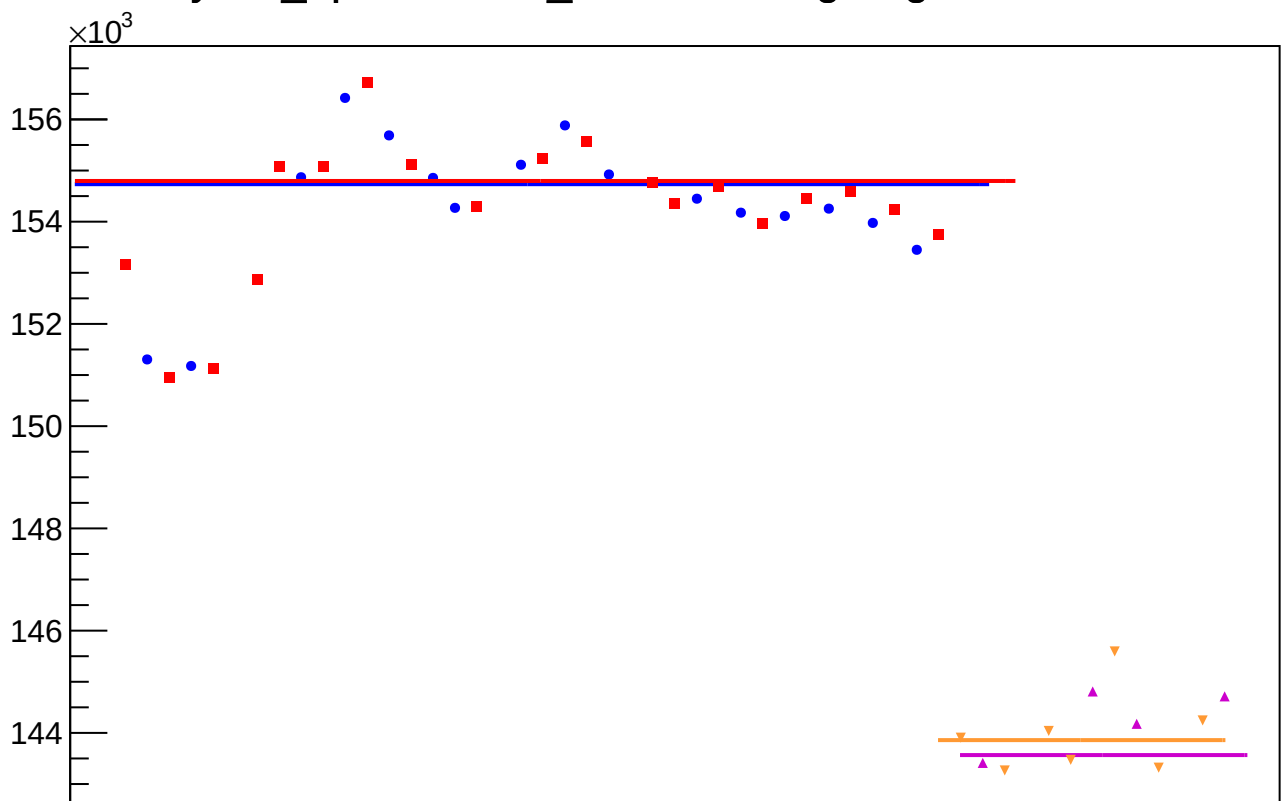
Left: 200.665+/-0.045 $\chi^2$/NDF: 447644.6/12

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 191.112+/-0.040 $\chi^2$/NDF:1221123.8/21

Out: 178.194+/-0.037 $\chi^2$/NDF:1421814.6/25

All: 184.144+/-0.027 $\chi^2$/NDF: 2698207.0/47




Right In: 154733.155+/-0.065 $\chi^2$/NDF: 274462319.1/15

Left Out: 143858.826+/-0.078 $\chi^2$/NDF:73382383.9/6

Right Out: 154795.893+/-0.061 $\chi^2$/NDF: 304125082.4/18

Left In: 143566.302+/-0.081 $\chi^2$/NDF:149857660.0/5

Left: 143717.963+/-0.056 $\chi^2$/NDF: 229971712.0/12

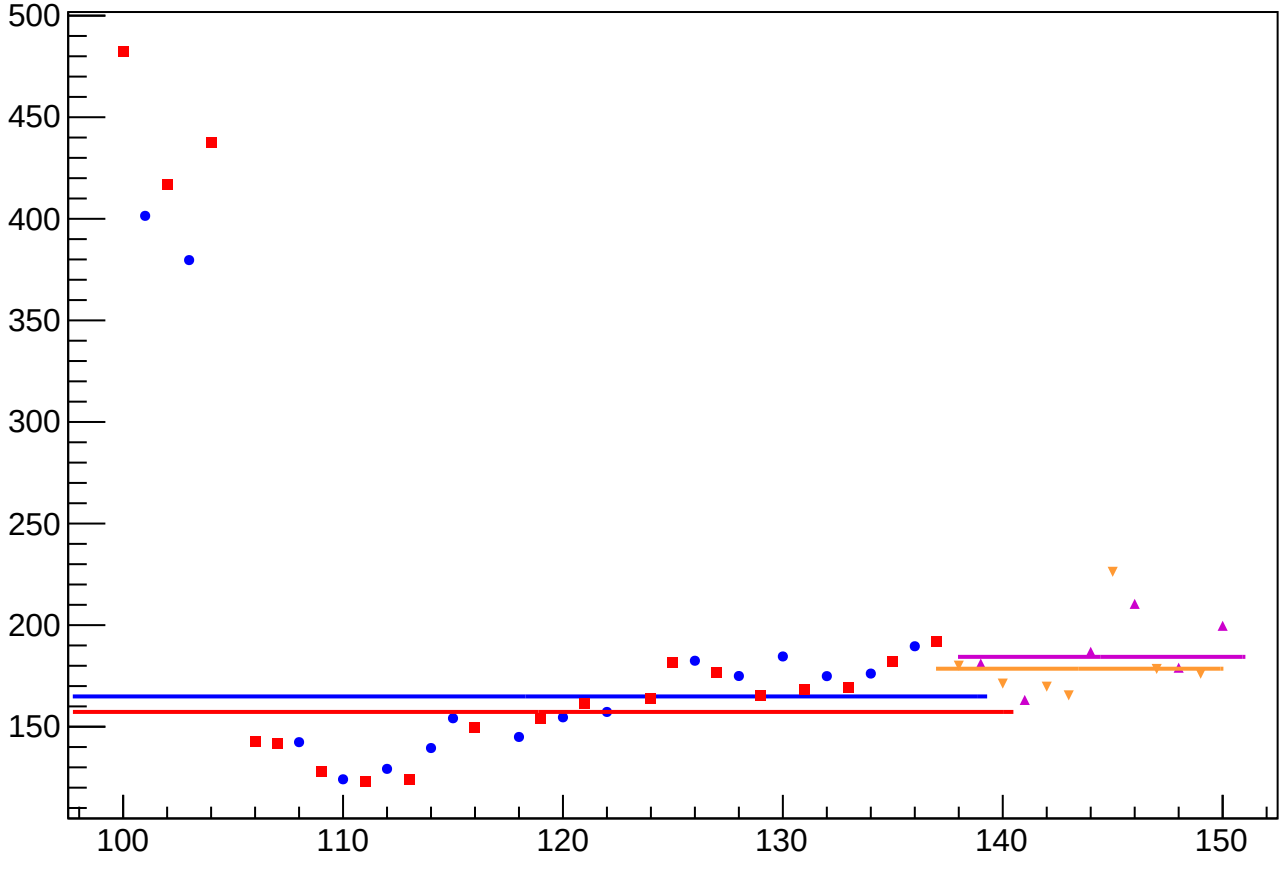
Right: 154766.574+/-0.045 $\chi^2$/NDF: 579080682.1/3

In: 150354.913+/-0.051 $\chi^2$/NDF:11927010475.5/2

Out: 150655.480+/-0.048 $\chi^2$/NDF:12521467159.1

All: 150513.373+/-0.035 $\chi^2$/NDF: 24466909

# yield_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 164.906+/-0.046 $\chi^2$/NDF: 1072730.7/15

Left Out: 178.555+/-0.055 $\chi^2$/NDF:87379.4/6

Right Out: 157.283+/-0.043 $\chi^2$/NDF: 1254831.2/18

Left In: 184.392+/-0.057 $\chi^2$/NDF:69102.8/5

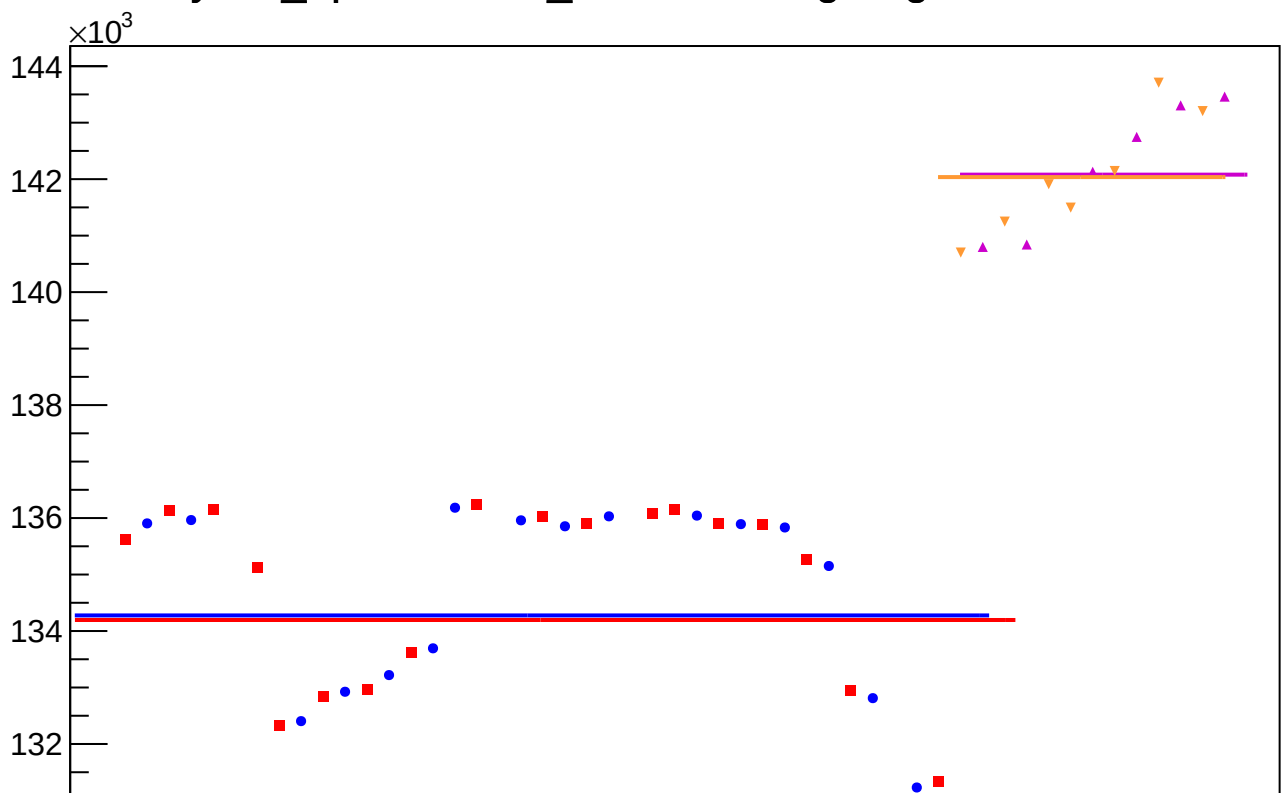
Left: 181.366+/-0.040 $\chi^2$/NDF: 161841.8/12

Right: 160.846+/-0.032 $\chi^2$/NDF: 2342128.6/34

In: 172.546+/-0.036 $\chi^2$/NDF:1211881.1/21

Out: 165.336+/-0.034 $\chi^2$/NDF:1434091.4/25

All: 168.745+/-0.025 $\chi^2$/NDF: 2667186.2/47




Right In: 134276.096+/-0.051 $\chi^2$/NDF: 1142867100.2/15

Left Out: 142036.527+/-0.077 $\chi^2$/NDF:178332372.4/6

Right Out: 134195.257+/-0.048 $\chi^2$/NDF: 1205537499.7/18

Left In: 142079.786+/-0.080 $\chi^2$/NDF:186675270.3/5

Left: 142057.328+/-0.056 $\chi^2$/NDF: 365159129.9/12

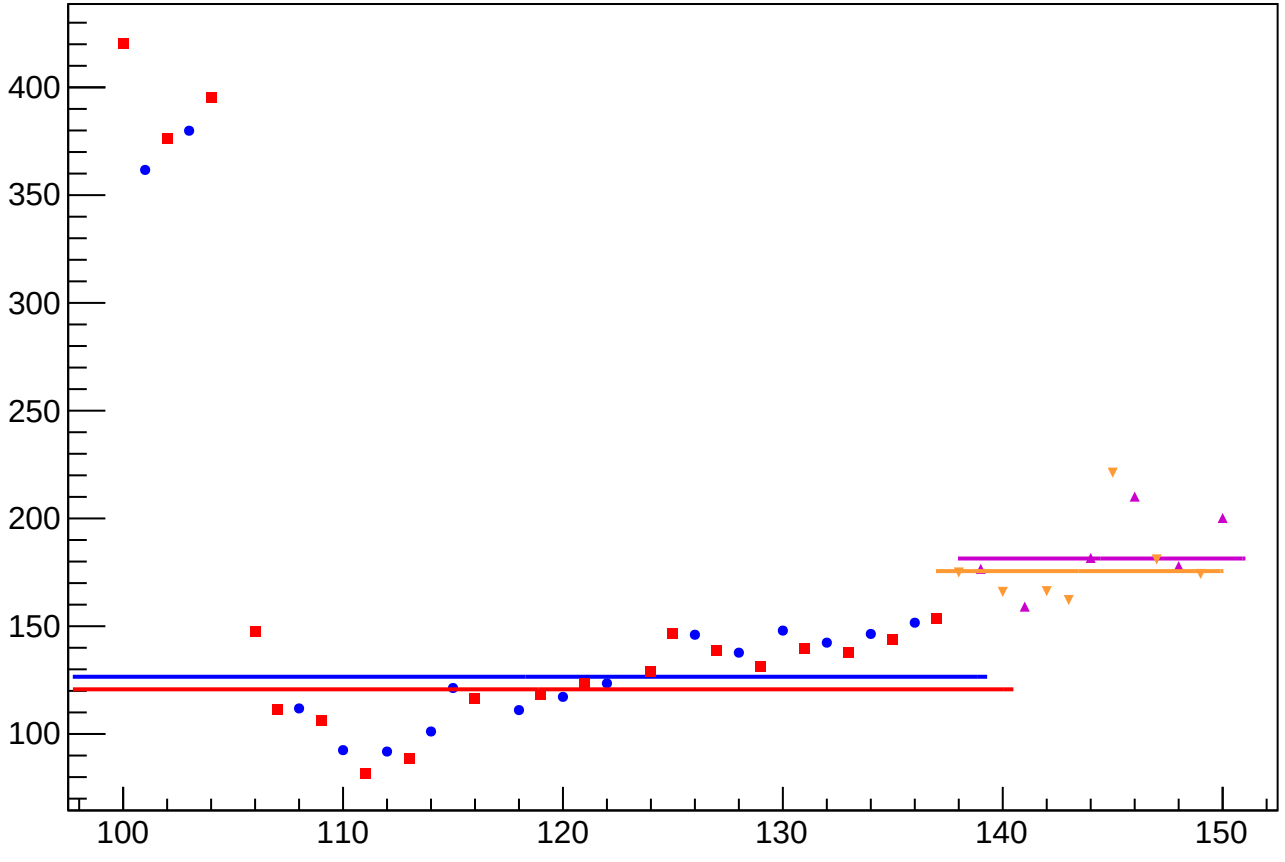
Right: 134233.345+/-0.035 $\chi^2$/NDF: 2349742421.8/

In: 136516.850+/-0.043 $\chi^2$/NDF:8098687995.0/21

Out: 136385.010+/-0.041 $\chi^2$/NDF:8844322767.5/2

All: 136447.490+/-0.030 $\chi^2$/NDF: 16947976

# yield_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 126.551+/-0.036 $\chi^2$/NDF: 1477429.4/15

Left Out: 175.569+/-0.054 $\chi^2$/NDF:89215.6/6

Right Out: 120.723+/-0.034 $\chi^2$/NDF: 1632726.2/18

Left In: 181.410+/-0.057 $\chi^2$/NDF:84306.8/5

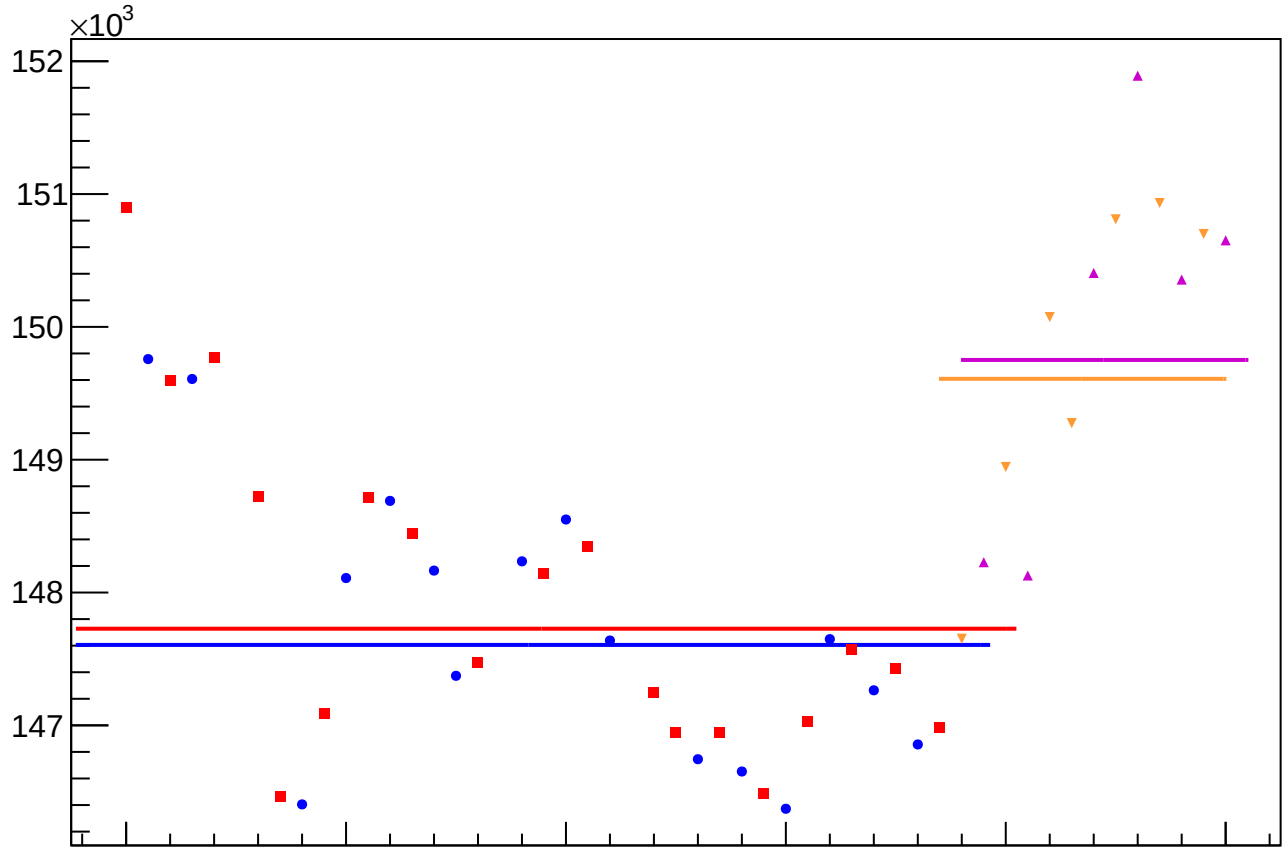
Left: 178.378+/-0.039 $\chi^2$/NDF: 179045.9/12

Right: 123.469+/-0.025 $\chi^2$/NDF: 3124061.5/34

In: 142.303+/-0.030 $\chi^2$/NDF:2230793.2/21

Out: 136.039+/-0.029 $\chi^2$/NDF:2451927.0/25

All: 139.008+/-0.021 $\chi^2$/NDF: 4705138.3/47




Right In: 147605.604+/-0.062 $\chi^2$/NDF: 200513366.5/15

Left Out: 149609.009+/-0.094 $\chi^2$/NDF:144835436.7/6

Right Out: 147727.598+/-0.059 $\chi^2$/NDF: 194800119.4/18

Left In: 149751.137+/-0.099 $\chi^2$/NDF:186462411.5/5

Left: 149676.858+/-0.068 $\chi^2$/NDF: 332380766.5/12

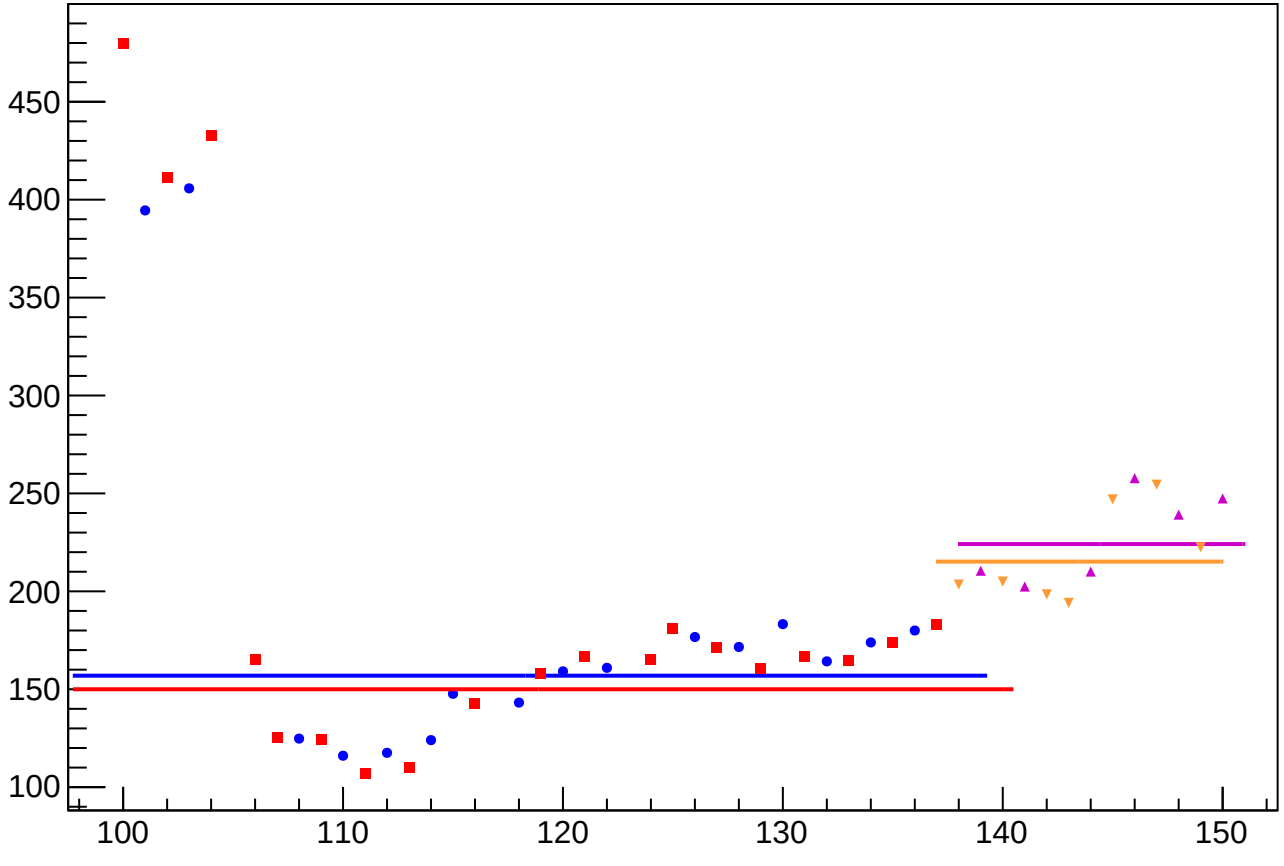
Right: 147670.157+/-0.043 $\chi^2$/NDF: 397331184.2/3

In: 148219.010+/-0.053 $\chi^2$/NDF:724172266.4/21

Out: 148255.489+/-0.050 $\chi^2$/NDF:625605434.4/25

All: 148238.245+/-0.036 $\chi^2$/NDF: 13500294

# yield_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 156.927+/-0.044 $\chi^2$/NDF: 1265768.6/15

Left Out: 215.179+/-0.067 $\chi^2$/NDF:101420.3/6

Right Out: 149.994+/-0.042 $\chi^2$/NDF: 1453928.8/18

Left In: 224.145+/-0.070 $\chi^2$/NDF:87296.9/5

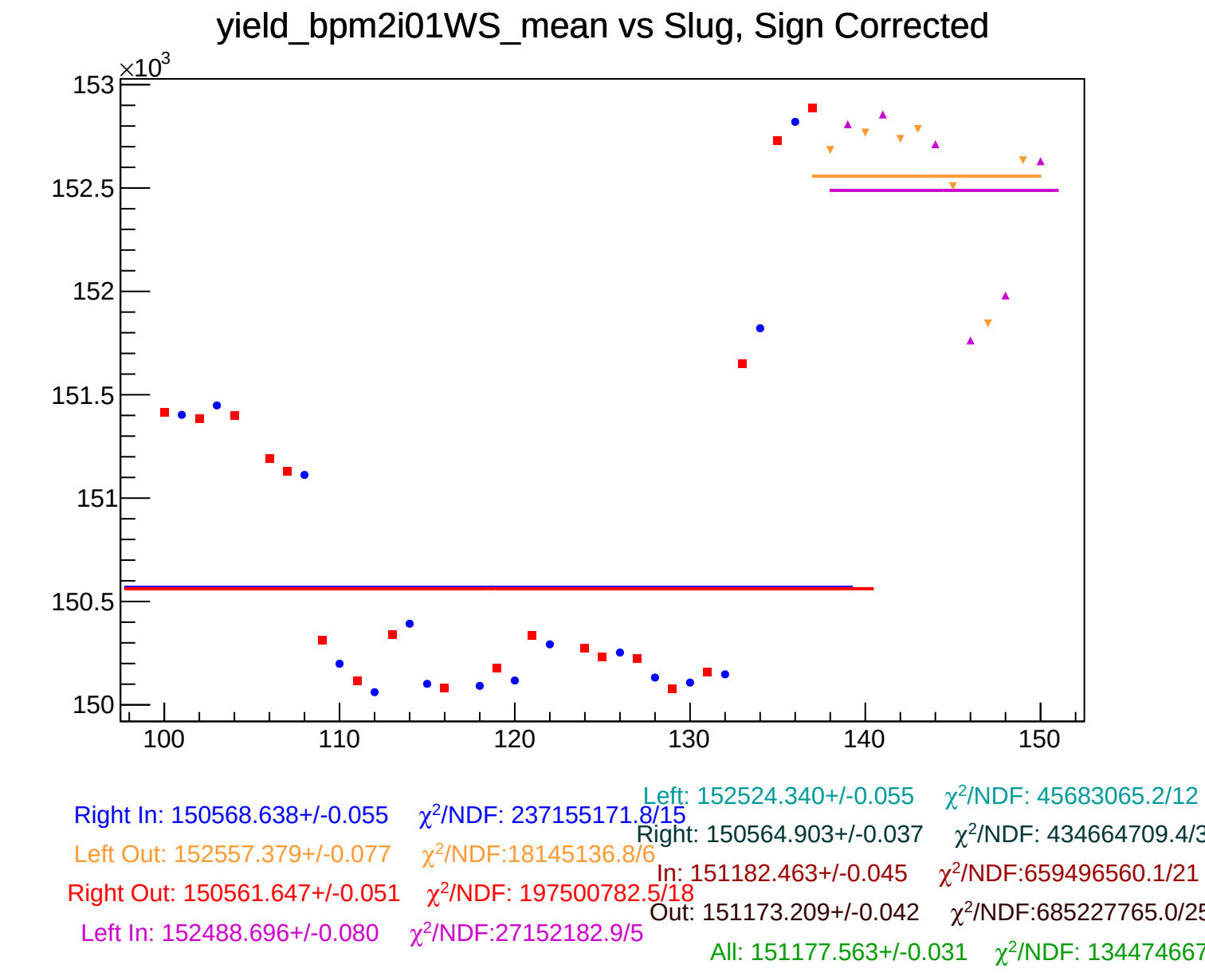
Left: 219.459+/-0.048 $\chi^2$/NDF: 197337.1/12

Right: 153.258+/-0.030 $\chi^2$/NDF: 2732730.8/34

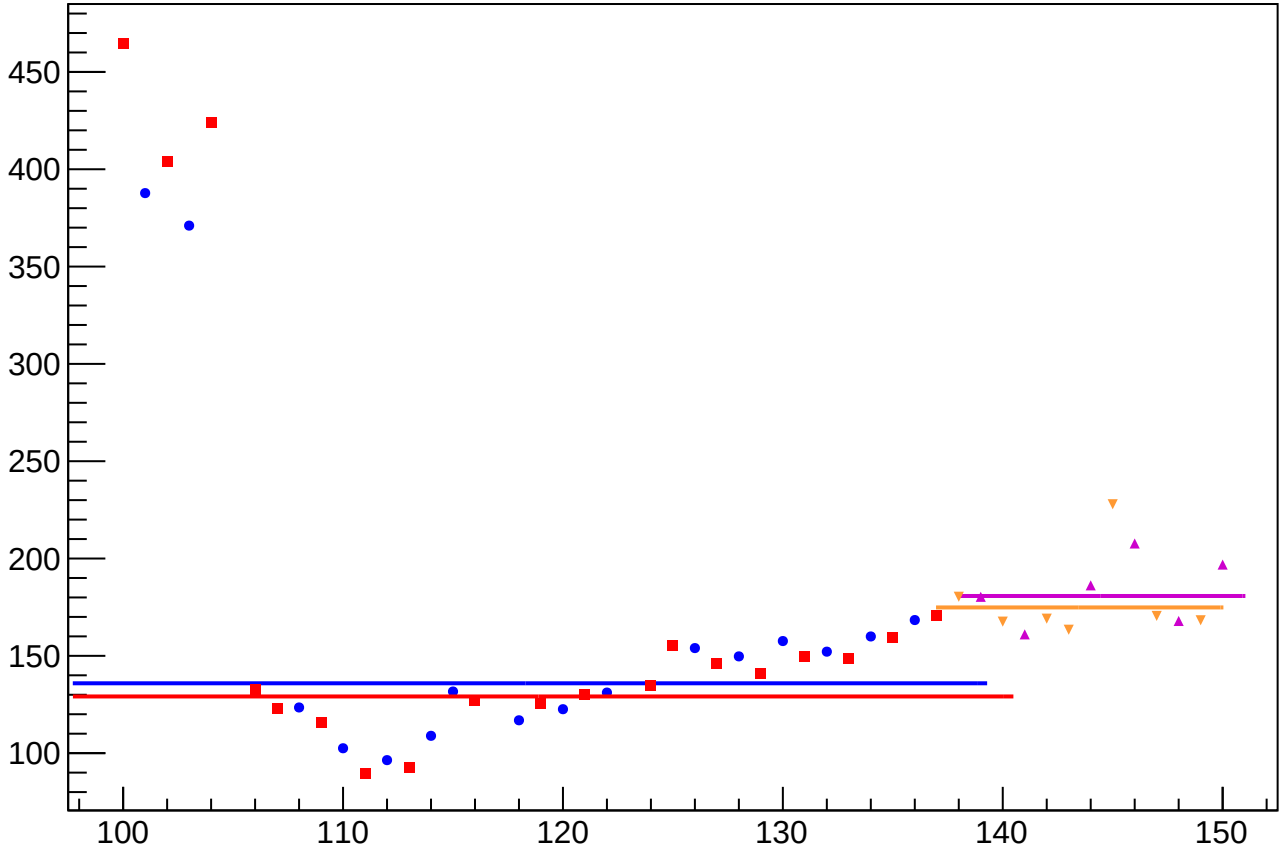
In: 176.145+/-0.037 $\chi^2$/NDF:2014997.0/21

Out: 168.284+/-0.035 $\chi^2$/NDF:2241900.5/25

All: 172.000+/-0.026 $\chi^2$/NDF: 4280279.2/47


yield_bpm2i01WS_mean vs Slug, Sign Corrected
×10^3
153
152.5
152
151.5
151
150.5
150
100
110
120
130
140
150
Right In: 150568.638+/-0.055 χ²/NDF: 237155171.8/15
Left Out: 152557.379+/-0.077 χ²/NDF:18145136.8/6
Right Out: 150561.647+/-0.051 χ²/NDF: 197500782.5/18
Left In: 152488.696+/-0.080 χ²/NDF:27152182.9/5
Left: 152524.340+/-0.055 χ²/NDF: 45683065.2/12
Right: 150564.903+/-0.037 χ²/NDF: 434664709.4/3
In: 151182.463+/-0.045 χ²/NDF:659496560.1/21
Out: 151173.209+/-0.042 χ²/NDF:685227765.0/25
All: 151177.563+/-0.031 χ²/NDF: 13447466

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 174.869+/-0.054 $\chi^2$/NDF:104214.5/6

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 180.751+/-0.056 $\chi^2$/NDF:78697.0/5

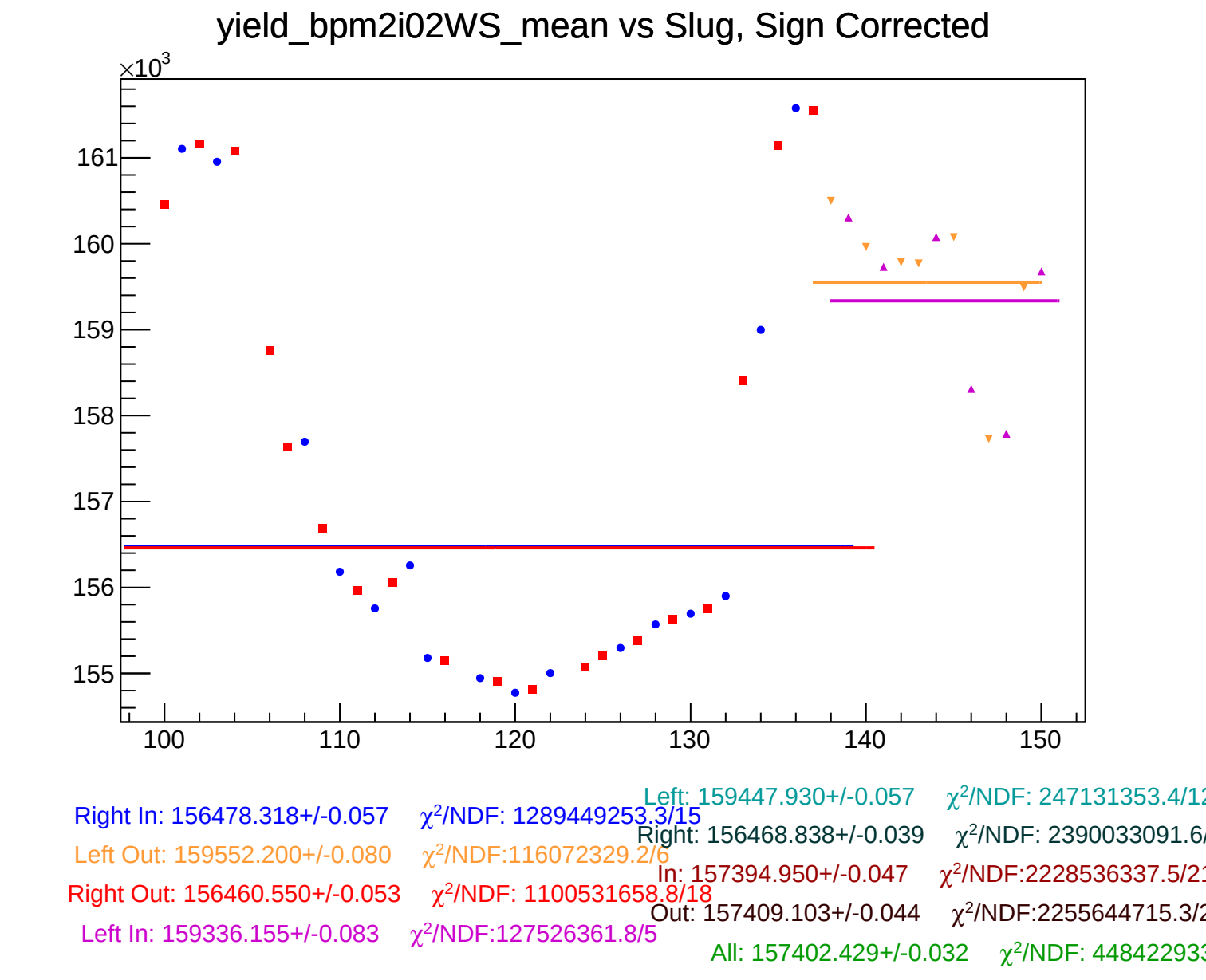
Left: 177.698+/-0.039 $\chi^2$/NDF: 188570.7/12

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

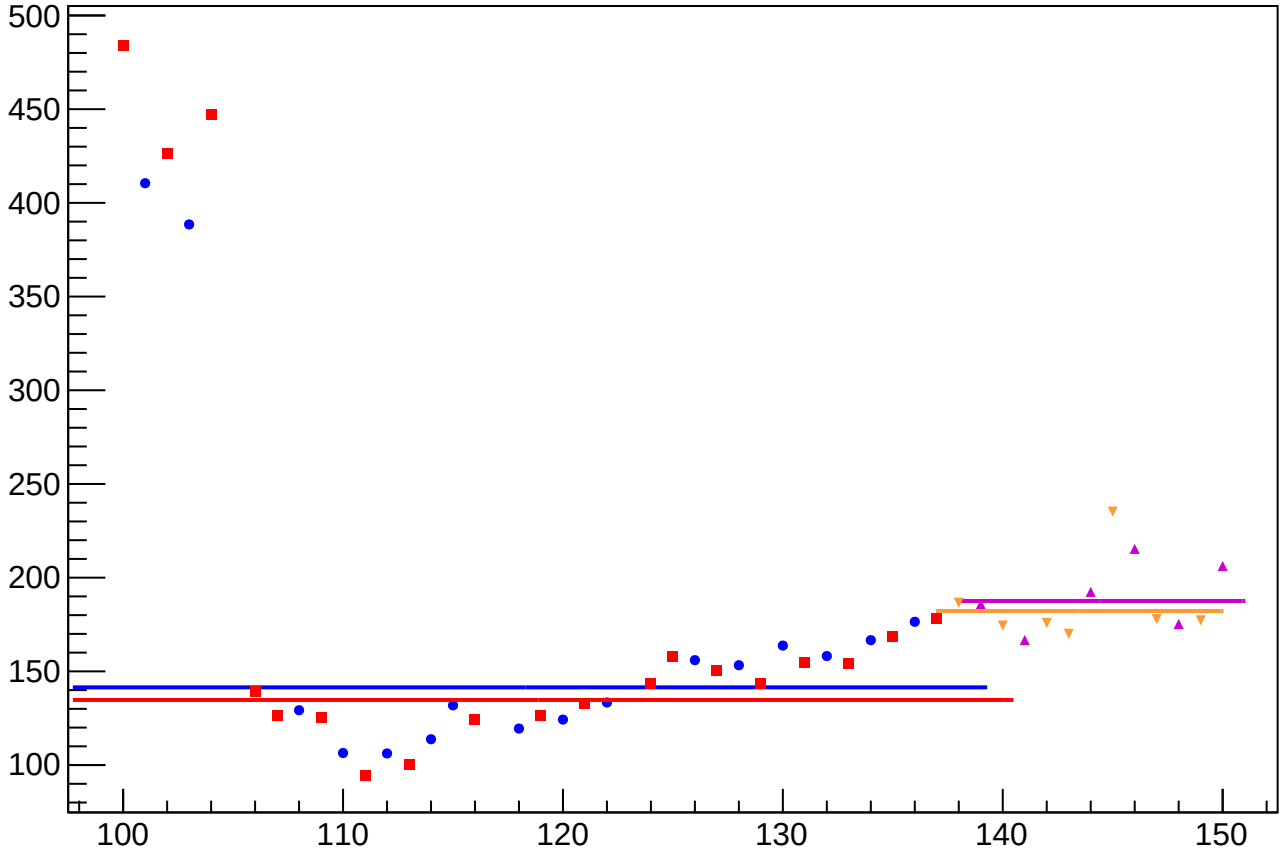
In: 150.236+/-0.032 $\chi^2$/NDF:1926380.0/21

Out: 143.146+/-0.030 $\chi^2$/NDF:2211808.2/25

All: 146.482+/-0.022 $\chi^2$/NDF: 4164424.3/47


yield_bpm2i02WS_mean vs Slug, Sign Corrected
×10^3
161
160
159
158
157
156
155
100
110
120
130
140
150
Right In: 156478.318+/-0.057 χ²/NDF: 1289449253.3/15
Left Out: 159552.200+/-0.080 χ²/NDF:116072329.2/6
Right Out: 156460.550+/-0.053 χ²/NDF: 1100531658.8/18
Left In: 159336.155+/-0.083 χ²/NDF:127526361.8/5
Left: 159447.930+/-0.057 χ²/NDF: 247131353.4/12
Right: 156468.838+/-0.039 χ²/NDF: 2390033091.6/
In: 157394.950+/-0.047 χ²/NDF:2228536337.5/21
Out: 157409.103+/-0.044 χ²/NDF:2255644715.3/2
All: 157402.429+/-0.032 χ²/NDF: 44842933

# yield_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 141.470+/-0.040 $\chi^2$/NDF: 1391933.2/15

Left Out: 182.204+/-0.056 $\chi^2$/NDF:97575.9/6

Right Out: 134.746+/-0.038 $\chi^2$/NDF: 1579031.5/18

Left In: 187.570+/-0.058 $\chi^2$/NDF:80301.5/5

Left: 184.794+/-0.041 $\chi^2$/NDF: 182236.1/12

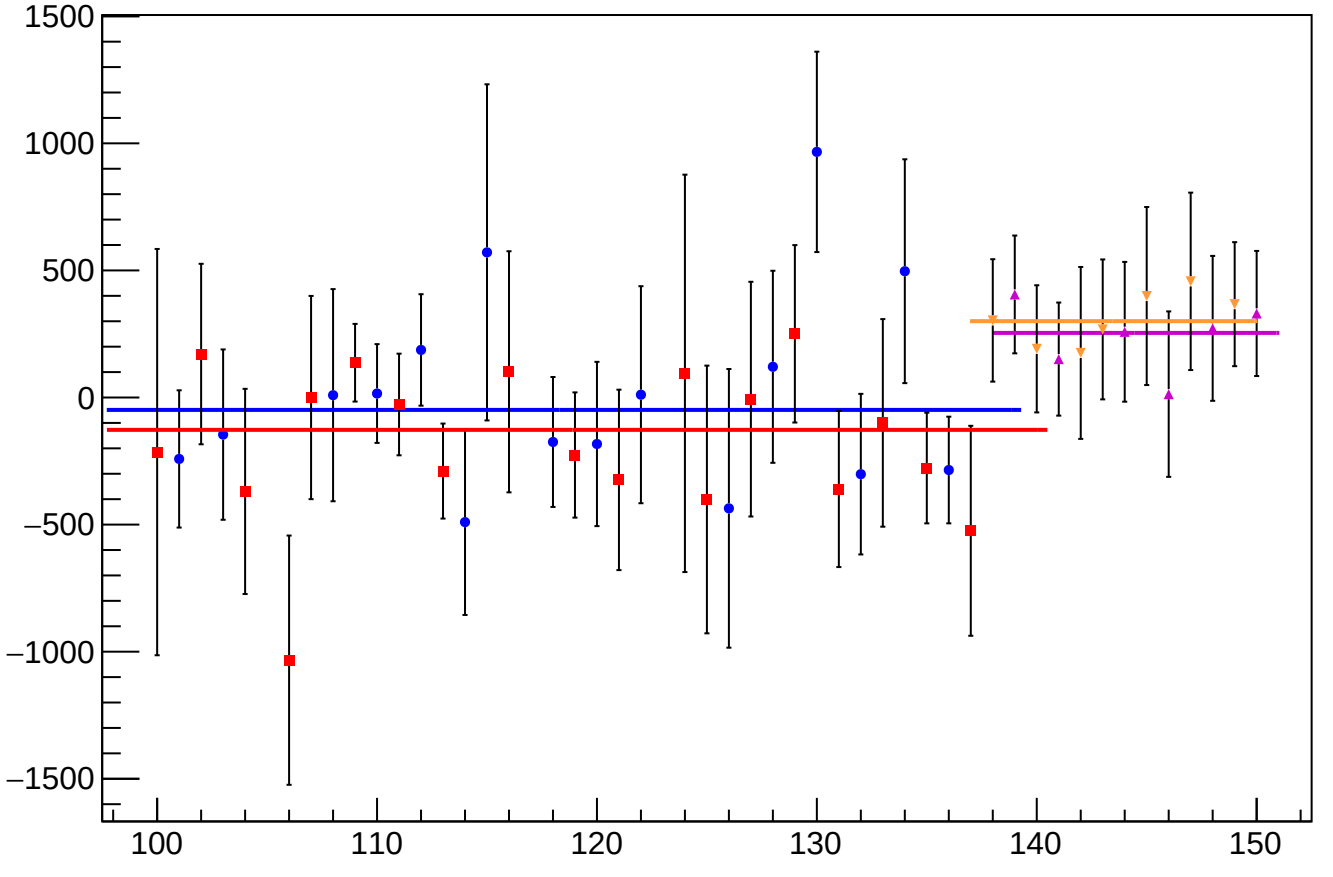
Right: 137.883+/-0.027 $\chi^2$/NDF: 2985912.1/34

In: 156.256+/-0.033 $\chi^2$/NDF:1894586.7/21

Out: 149.306+/-0.031 $\chi^2$/NDF:2166276.6/25

All: 152.584+/-0.023 $\chi^2$/NDF: 4084146.8/47

# asym_bcm_target_mean vs Slug, Sign Corrected




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 300.436+/-106.400 $\chi^2$/NDF:0.7/6

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 254.199+/-105.231 $\chi^2$/NDF:1.3/5

Left: 277.062+/-74.820 $\chi^2$/NDF: 2.1/12

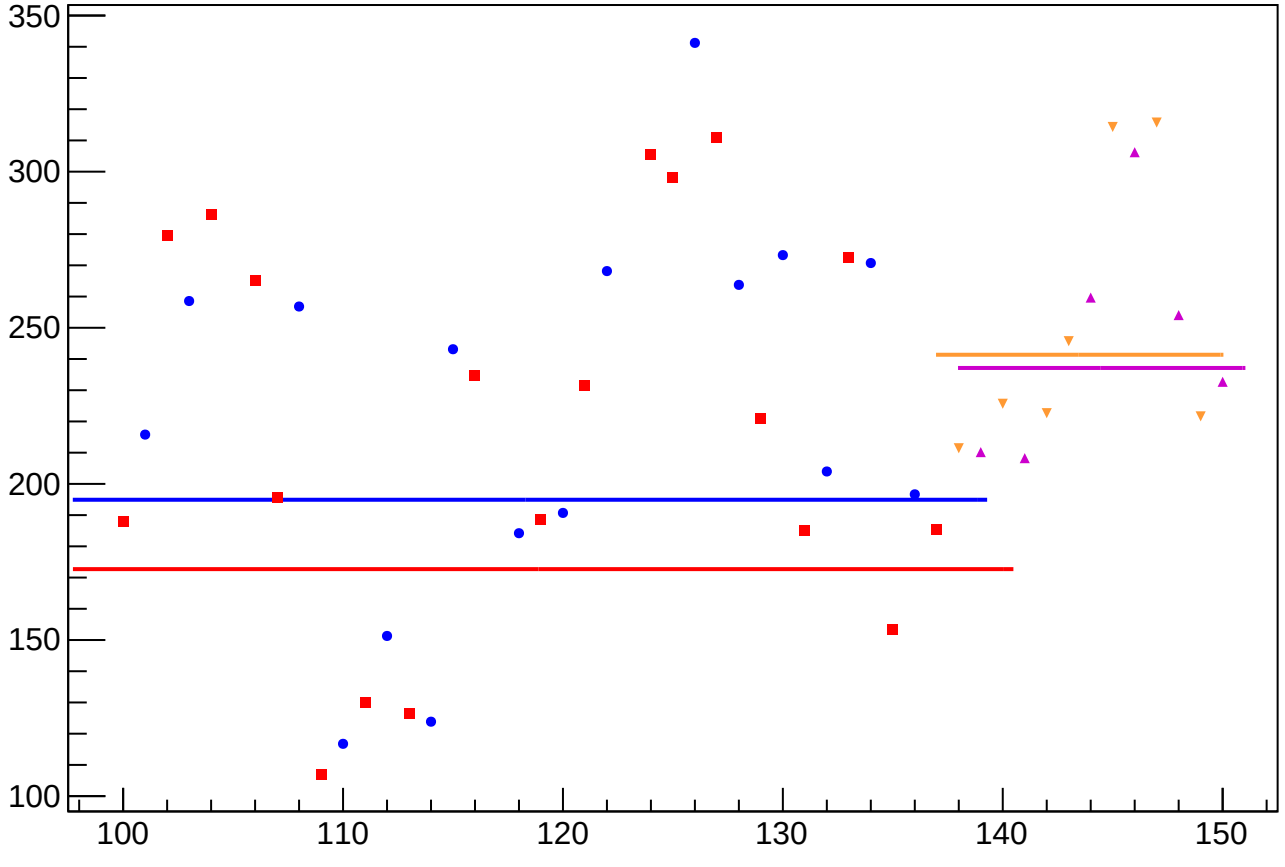
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 56.162+/-61.926 $\chi^2$/NDF:22.1/21

Out: -1.912+/-57.600 $\chi^2$/NDF:25.0/25

All: 25.026+/-42.176 $\chi^2$/NDF: 47.6/47

# asym_bcm_target_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 241.363+/-0.075 $\chi^2$/NDF:236095.6/6

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 237.131+/-0.074 $\chi^2$/NDF:172028.9/5

Left: 239.224+/-0.053 $\chi^2$/NDF: 409724.3/12

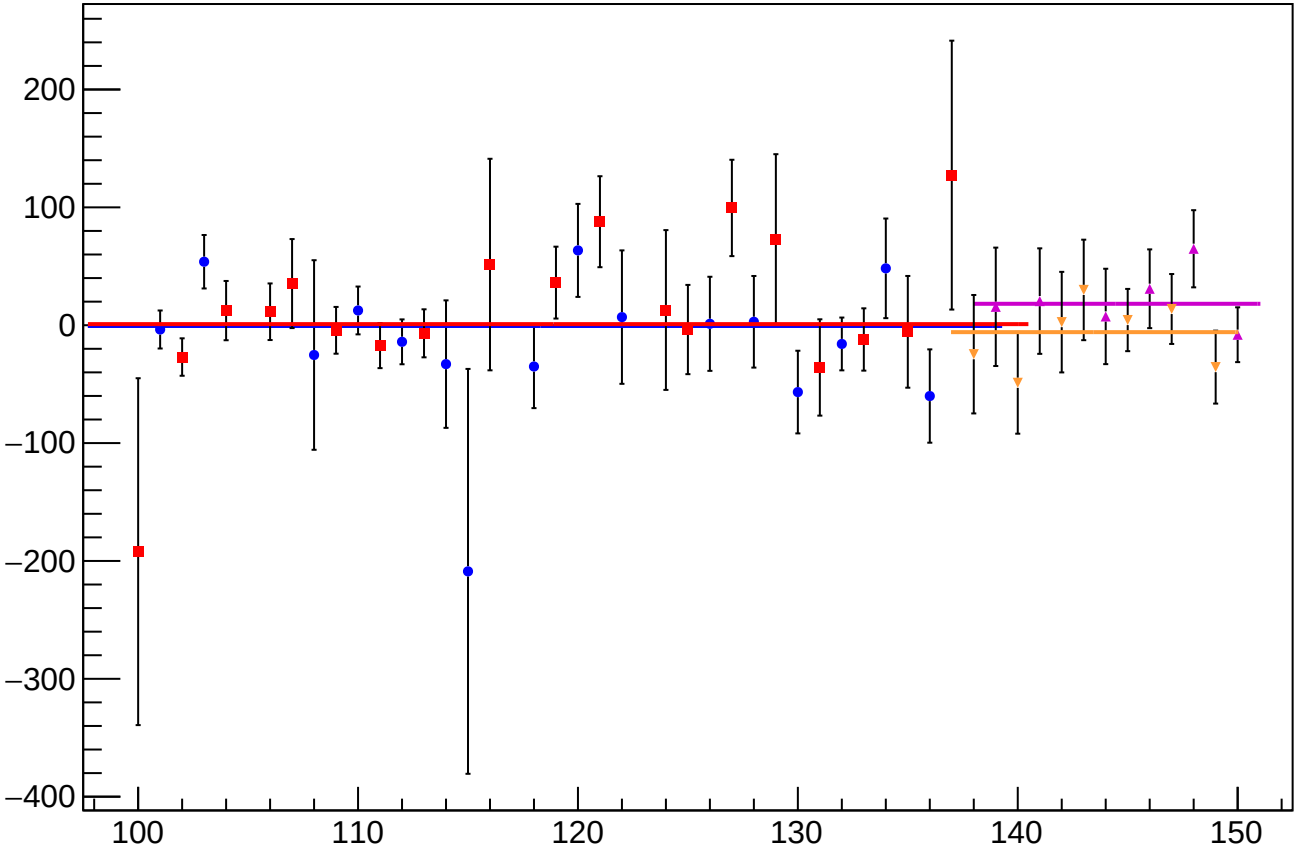
Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 209.539+/-0.044 $\chi^2$/NDF:1411266.7/21

Out: 192.825+/-0.041 $\chi^2$/NDF:2456190.9/25

All: 200.578+/-0.030 $\chi^2$/NDF: 3945574.9/47

# asym_bcm_an_diff_mean vs Slug, Sign Corrected




Right In: -0.624+/-7.340 $\chi^2$/NDF: 18.9/15

Left Out: -5.871+/-13.308 $\chi^2$/NDF:3.4/6

Right Out: 0.938+/-6.767 $\chi^2$/NDF: 23.1/18

Left In: 18.186+/-13.887 $\chi^2$/NDF:3.5/5

Left: 5.645+/-9.608 $\chi^2$/NDF: 8.5/12

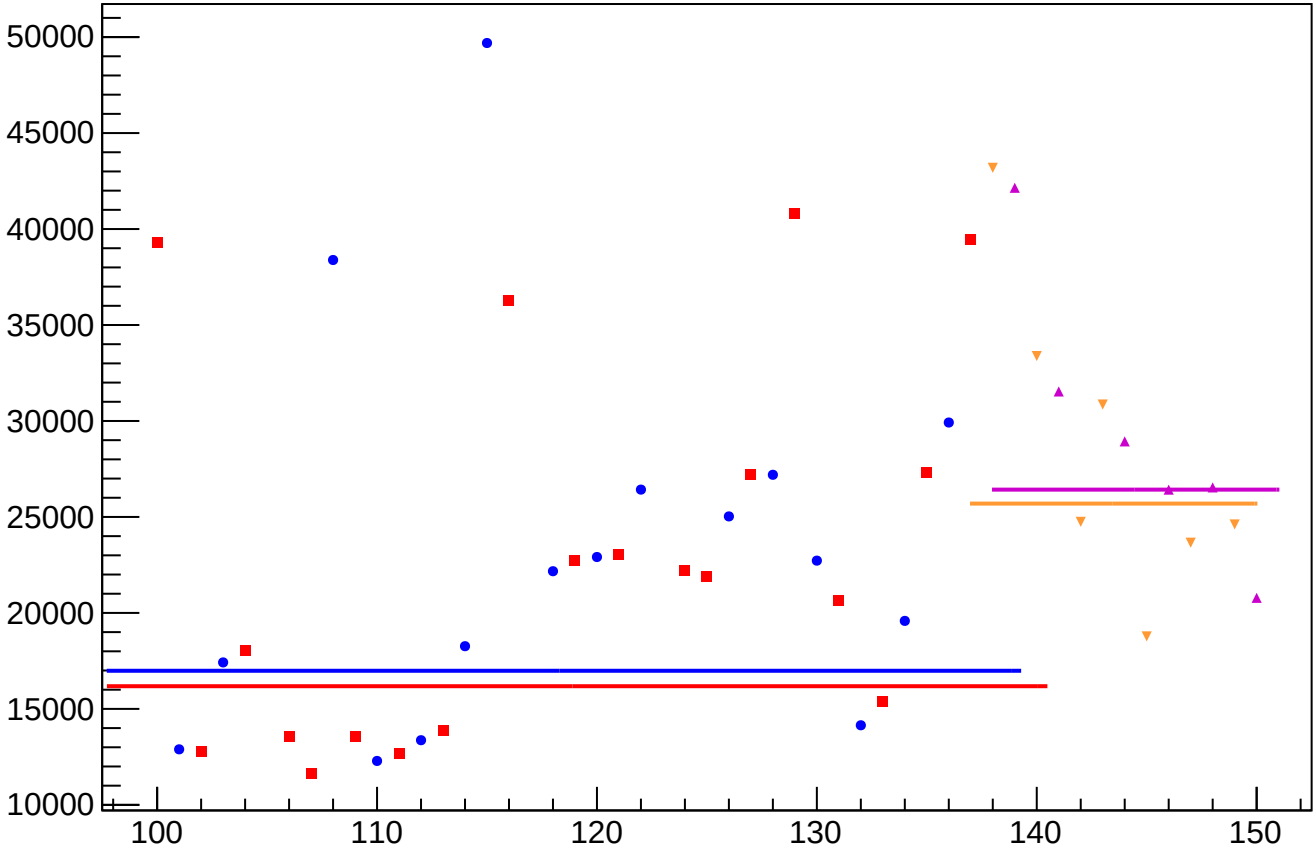
Right: 0.220+/-4.975 $\chi^2$/NDF: 42.0/34

In: 3.484+/-6.490 $\chi^2$/NDF:23.8/21

Out: -0.461+/-6.032 $\chi^2$/NDF:26.6/25

All: 1.367+/-4.418 $\chi^2$/NDF: 50.7/47

# asym_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 16986.402+/-5.190 $\chi^2$/NDF: 1194096.1/15

Left Out: 25695.724+/-9.410 $\chi^2$/NDF:485318.1/6

Right Out: 16181.928+/-4.785 $\chi^2$/NDF: 1251495.8/18

Left In: 26423.582+/-9.820 $\chi^2$/NDF:347489.5/5

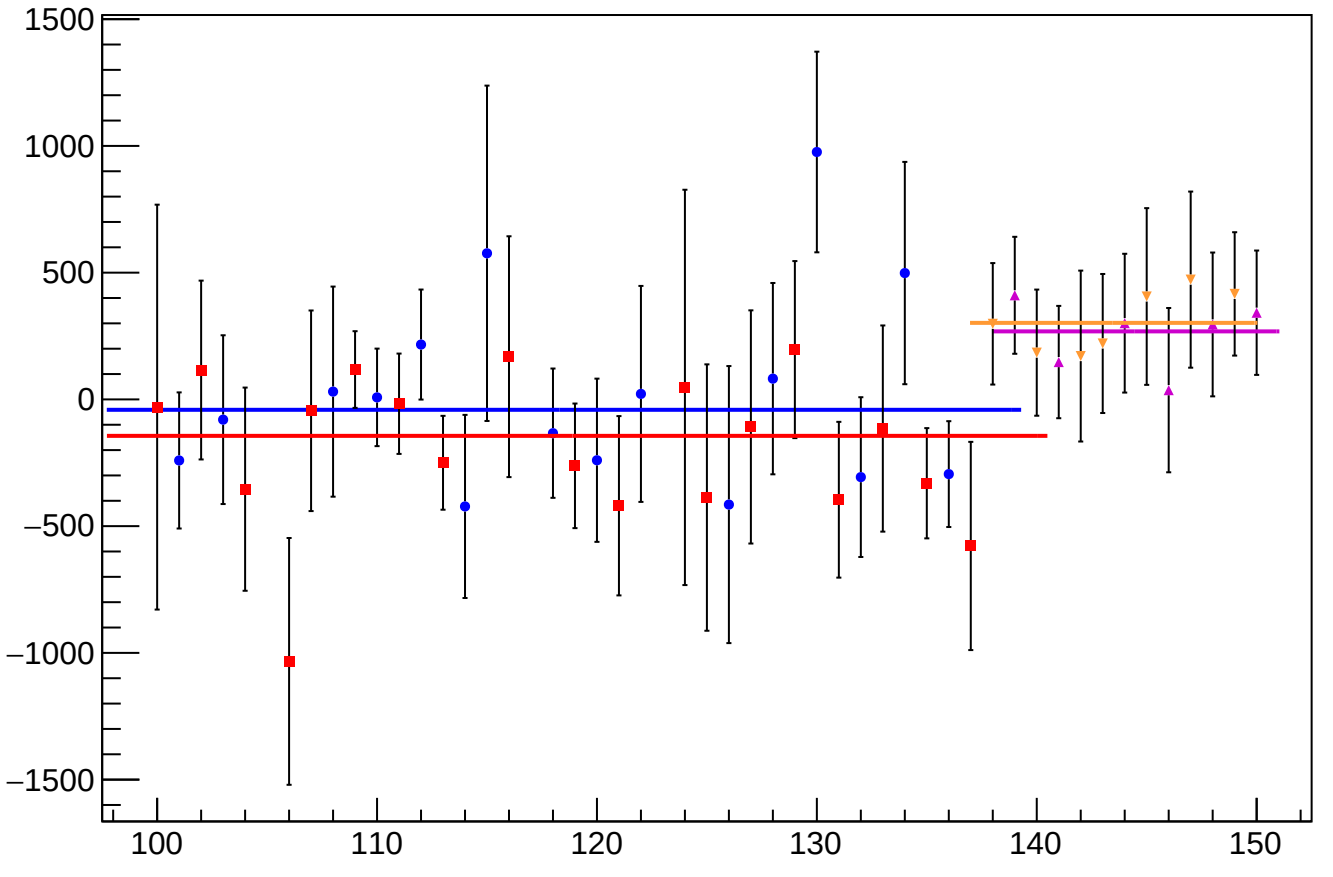
Left: 26044.154+/-6.794 $\chi^2$/NDF: 835671.7/12

Right: 16551.529+/-3.518 $\chi^2$/NDF: 2458578.1/34

In: 19047.232+/-4.589 $\chi^2$/NDF:2263505.4/21

Out: 18136.536+/-4.265 $\chi^2$/NDF:2548986.4/25

All: 18558.650+/-3.124 $\chi^2$/NDF: 4833622.5/4




Right In: -41.048+/-76.156 $\chi^2$/NDF: 15.5/15

Left Out: 301.939+/-105.961 $\chi^2$/NDF:1.0/6

Right Out: -143.821+/-68.080 $\chi^2$/NDF: 13.0/18

Left In: 268.324+/-104.790 $\chi^2$/NDF:1.3/5

Left: 284.945+/-74.509 $\chi^2$/NDF: 2.4/12

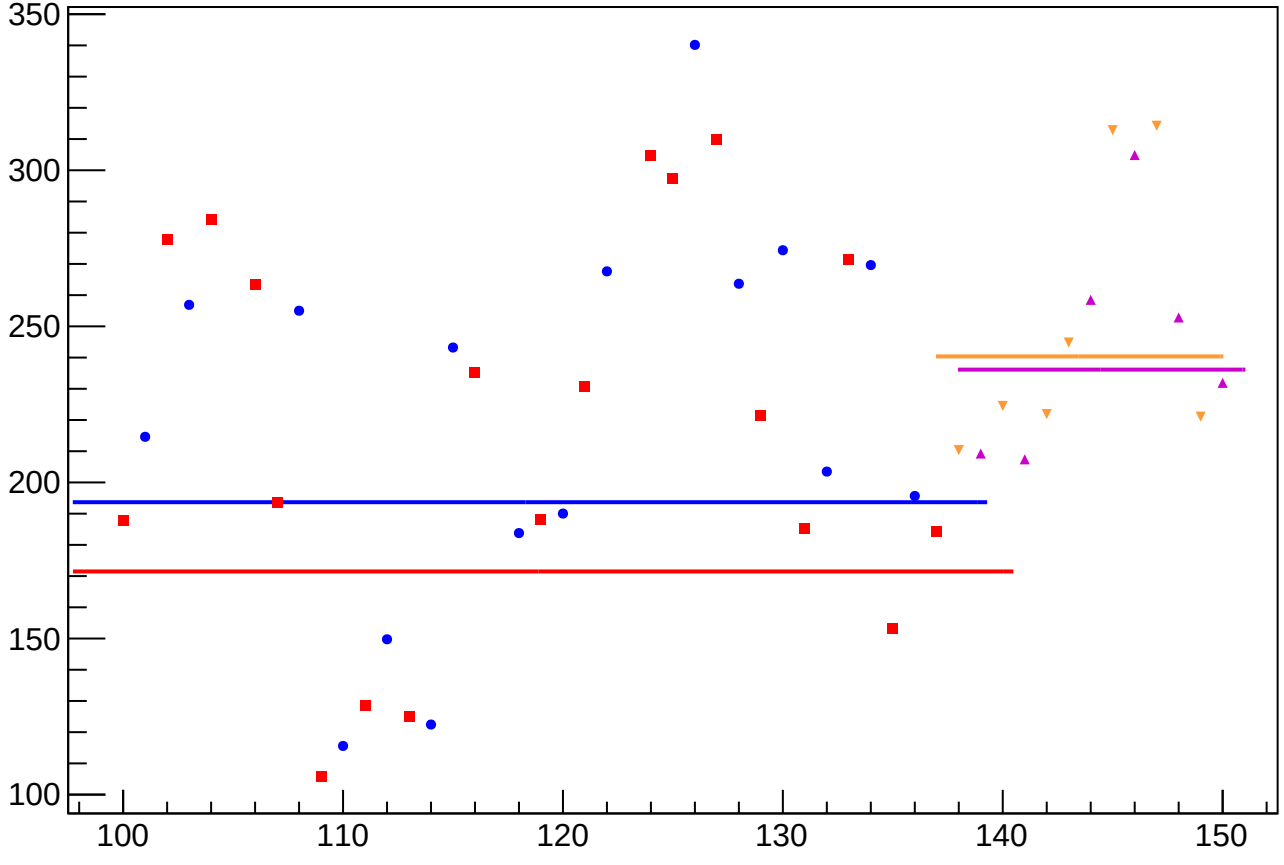
Right: -98.171+/-50.756 $\chi^2$/NDF: 29.5/34

In: 65.878+/-61.606 $\chi^2$/NDF:22.5/21

Out: -13.575+/-57.277 $\chi^2$/NDF:26.5/25

All: 23.262+/-41.948 $\chi^2$/NDF: 49.9/47

# asym_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 193.670+/-0.054 $\chi^2$/NDF: 1049772.0/15

Left Out: 240.374+/-0.075 $\chi^2$/NDF:235540.2/6

Right Out: 171.484+/-0.048 $\chi^2$/NDF: 1652989.7/18

Left In: 236.139+/-0.074 $\chi^2$/NDF:171661.7/5

Left: 238.233+/-0.053 $\chi^2$/NDF: 408816.9/12

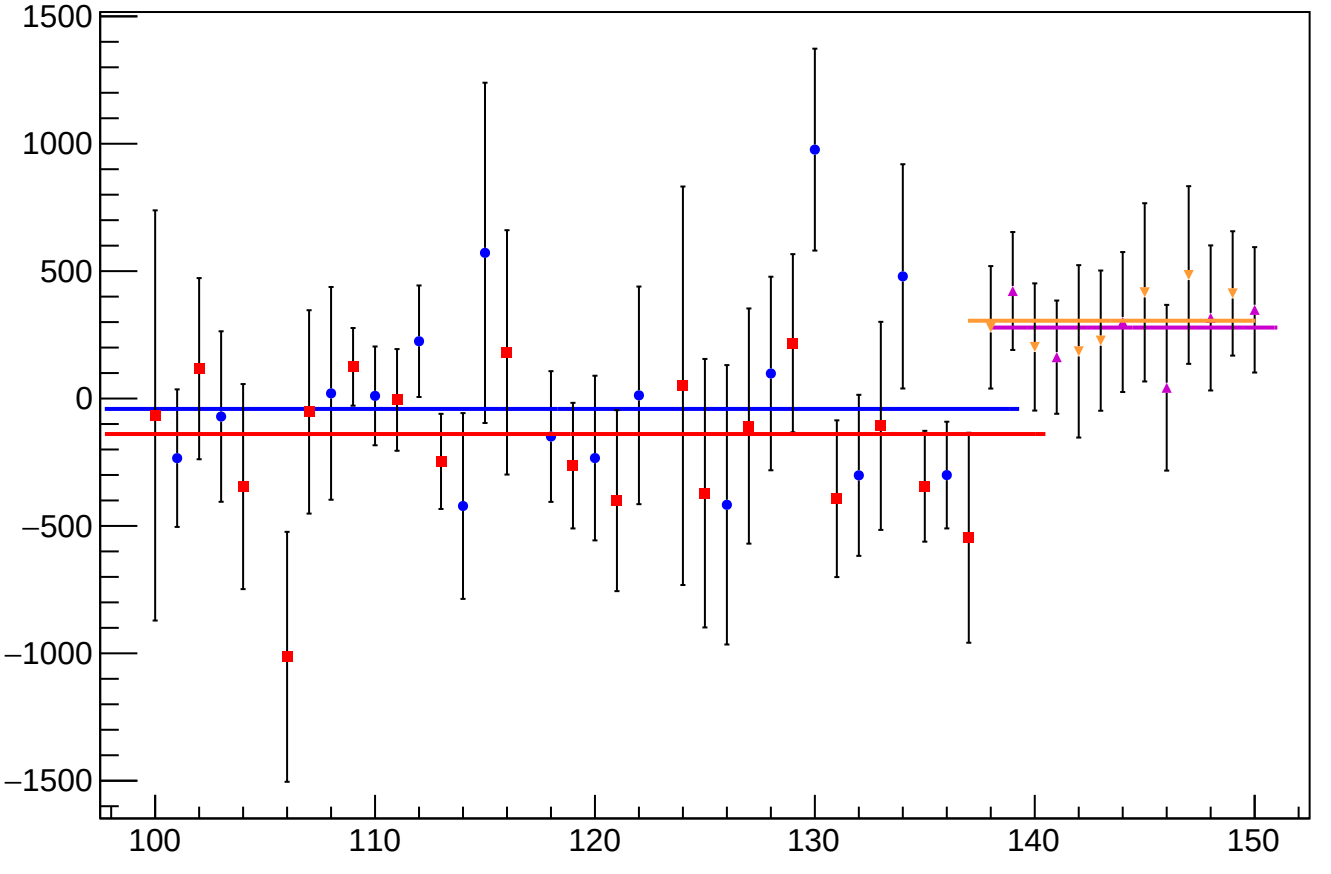
Right: 181.339+/-0.036 $\chi^2$/NDF: 2797109.1/34

In: 208.349+/-0.044 $\chi^2$/NDF:1436395.5/21

Out: 191.613+/-0.041 $\chi^2$/NDF:2486897.2/25

All: 199.372+/-0.030 $\chi^2$/NDF: 4002459.4/47

# asym_bcm_an_ds3_mean vs Slug, Sign Corrected




Right In: -40.798+/-76.579 $\chi^2$/NDF: 15.4/15

Left Out: 305.387+/-106.302 $\chi^2$/NDF:0.9/6

Right Out: -139.292+/-68.459 $\chi^2$/NDF: 12.9/18

Left In: 278.526+/-105.124 $\chi^2$/NDF:1.3/5

Left: 291.807+/-74.747 $\chi^2$/NDF: 2.3/12

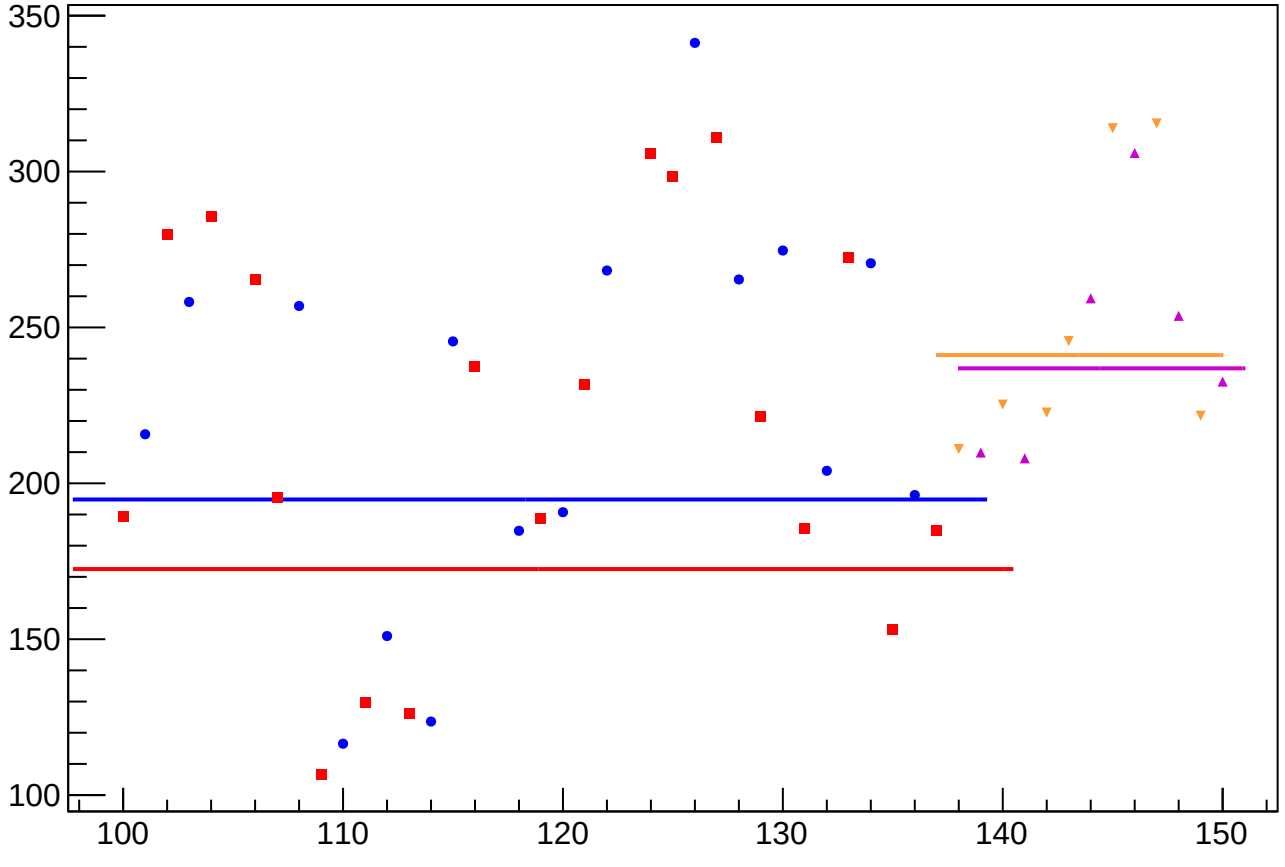
Right: -95.542+/-51.038 $\chi^2$/NDF: 29.2/34

In: 69.907+/-61.897 $\chi^2$/NDF:22.7/21

Out: -8.929+/-57.556 $\chi^2$/NDF:26.2/25

All: 27.628+/-42.150 $\chi^2$/NDF: 49.8/47

# asym_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 194.819+/-0.054 $\chi^2$/NDF: 1039096.7/15

Left Out: 241.136+/-0.075 $\chi^2$/NDF:236150.1/6

Right Out: 172.507+/-0.048 $\chi^2$/NDF: 1642059.1/18

Left In: 236.881+/-0.074 $\chi^2$/NDF:172153.9/5

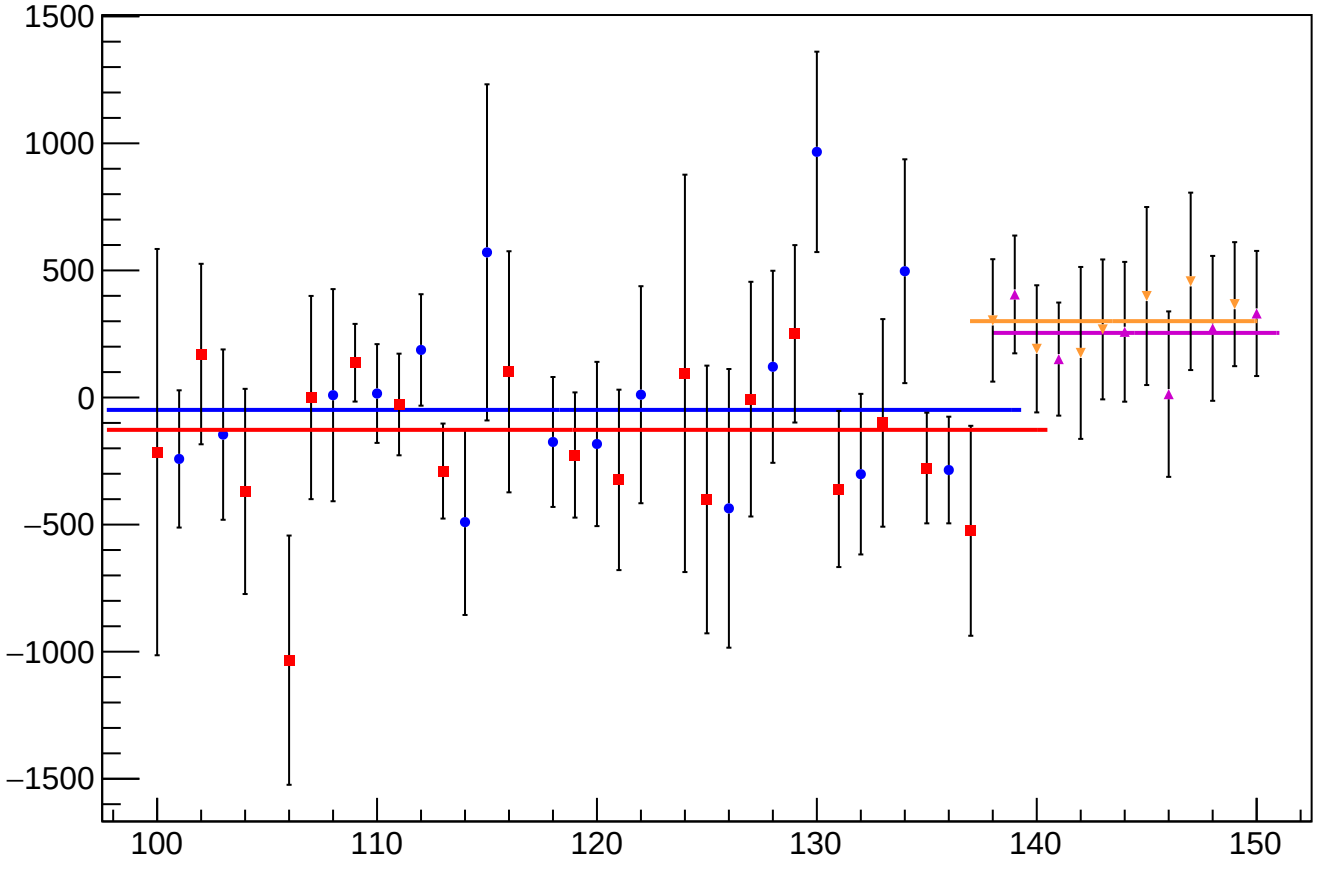
Left: 238.985+/-0.053 $\chi^2$/NDF: 409923.8/12

Right: 182.418+/-0.036 $\chi^2$/NDF: 2775527.6/34

In: 209.402+/-0.044 $\chi^2$/NDF:1420428.3/21

Out: 192.626+/-0.041 $\chi^2$/NDF:2467440.1/25

All: 200.405+/-0.030 $\chi^2$/NDF: 3966652.8/47




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 300.436+/-106.400 $\chi^2$/NDF:0.7/6

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 254.199+/-105.231 $\chi^2$/NDF:1.3/5

Left: 277.062+/-74.820 $\chi^2$/NDF: 2.1/12

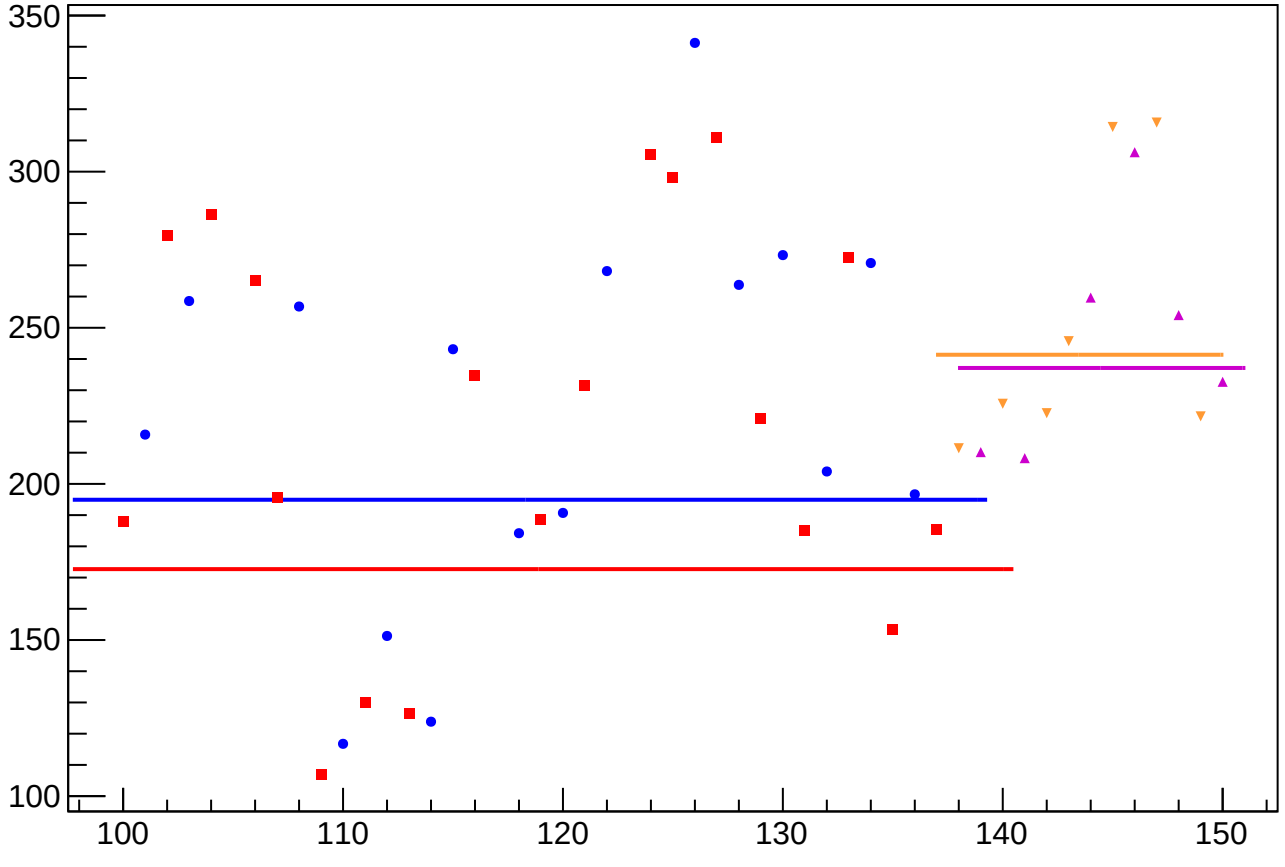
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 56.162+/-61.926 $\chi^2$/NDF:22.1/21

Out: -1.912+/-57.600 $\chi^2$/NDF:25.0/25

All: 25.026+/-42.176 $\chi^2$/NDF: 47.6/47

# asym_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 241.363+/-0.075 $\chi^2$/NDF:236095.6/6

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 237.131+/-0.074 $\chi^2$/NDF:172028.9/5

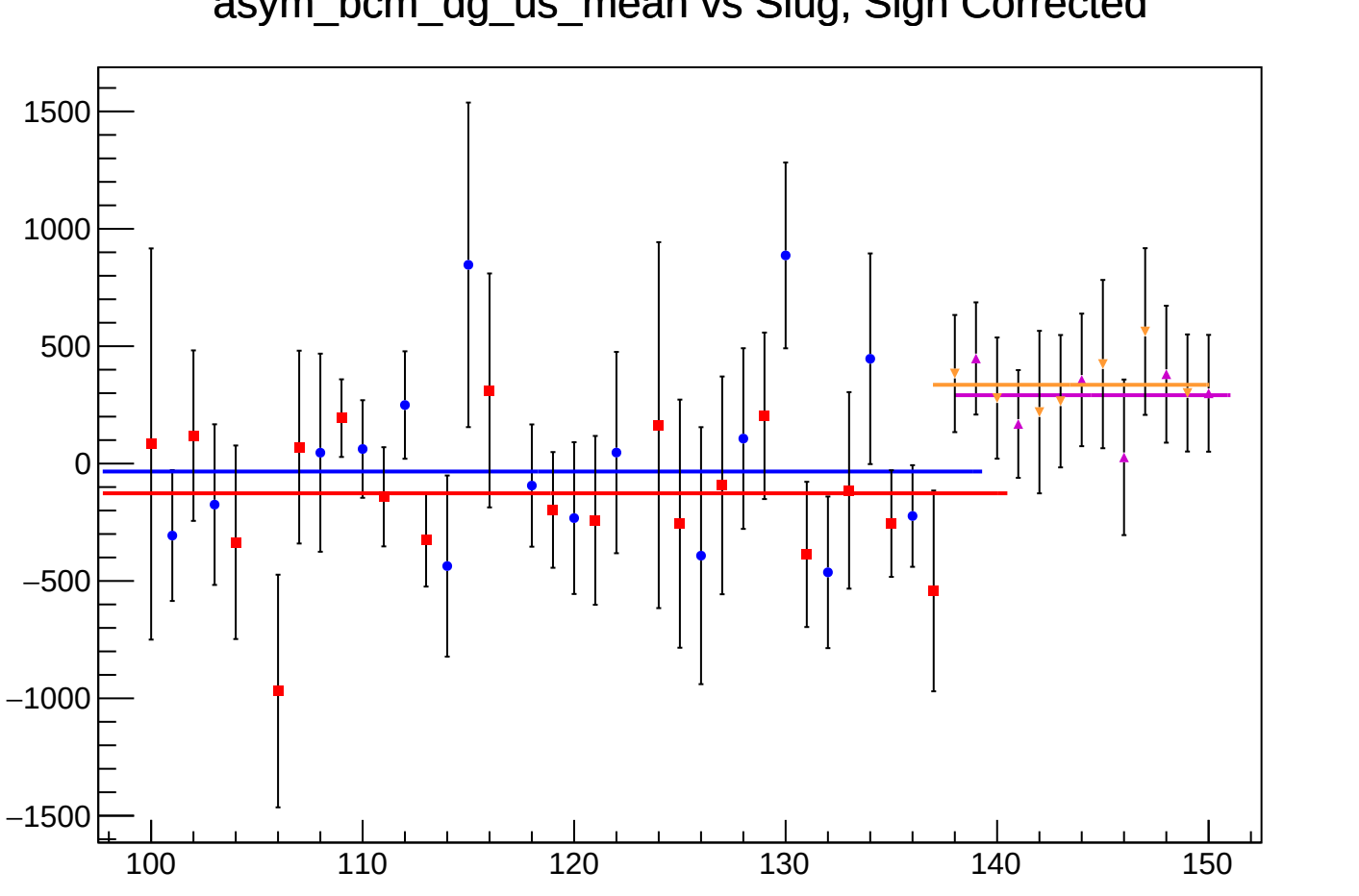
Left: 239.224+/-0.053 $\chi^2$/NDF: 409724.3/12

Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 209.539+/-0.044 $\chi^2$/NDF:1411266.7/21

Out: 192.825+/-0.041 $\chi^2$/NDF:2456190.9/25

All: 200.578+/-0.030 $\chi^2$/NDF: 3945574.9/47




Right In: -33.731+/-78.996 $\chi^2$/NDF: 15.7/15

Left Out: 335.564+/-109.248 $\chi^2$/NDF:0.7/6

Right Out: -126.563+/-71.309 $\chi^2$/NDF: 12.7/18

Left In: 291.311+/-107.789 $\chi^2$/NDF:1.5/5

Left: 313.140+/-76.729 $\chi^2$/NDF: 2.3/12

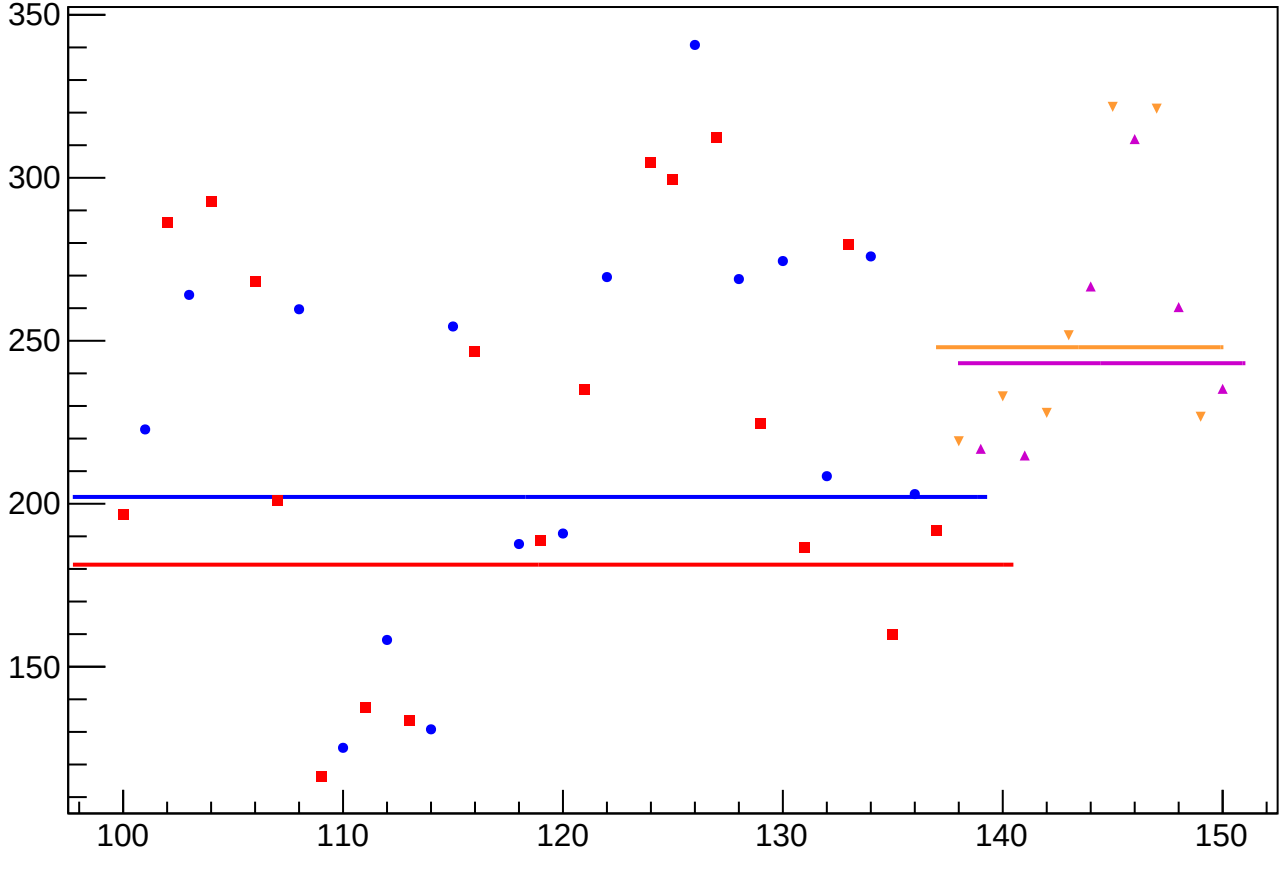
Right: -84.882+/-52.933 $\chi^2$/NDF: 29.2/34

In: 79.847+/-63.717 $\chi^2$/NDF:23.2/21

Out: 11.503+/-59.714 $\chi^2$/NDF:26.0/25

All: 43.461+/-43.571 $\chi^2$/NDF: 49.7/47

# asym_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 202.090+/-0.056 $\chi^2$/NDF: 910259.2/15

Left Out: 248.025+/-0.077 $\chi^2$/NDF:224966.2/6

Right Out: 181.312+/-0.050 $\chi^2$/NDF: 1440989.4/18

Left In: 243.118+/-0.076 $\chi^2$/NDF:163579.5/5

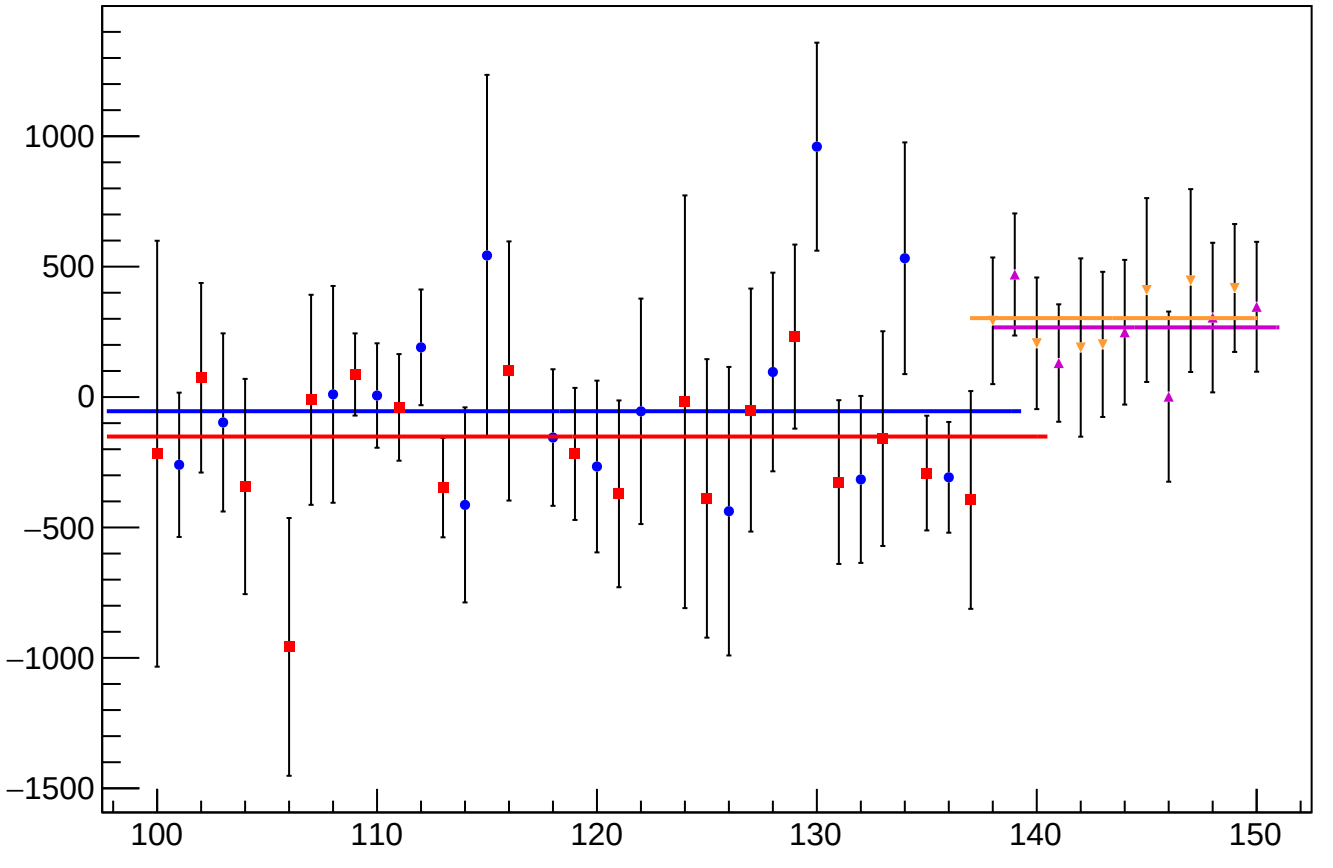
Left: 245.539+/-0.054 $\chi^2$/NDF: 390590.0/12

Right: 190.641+/-0.037 $\chi^2$/NDF: 2427488.6/34

In: 216.426+/-0.045 $\chi^2$/NDF:1262350.3/21

Out: 201.244+/-0.042 $\chi^2$/NDF:2188935.1/25

All: 208.343+/-0.031 $\chi^2$/NDF: 3511744.5/47




Right In: -54.254+/-77.946 $\chi^2$/NDF: 15.1/15

Left Out: 302.691+/-107.230 $\chi^2$/NDF:0.9/6

Right Out: -151.358+/-69.902 $\chi^2$/NDF: 10.2/18

Left In: 267.156+/-106.199 $\chi^2$/NDF:1.9/5

Left: 284.752+/-75.456 $\chi^2$/NDF: 2.8/12

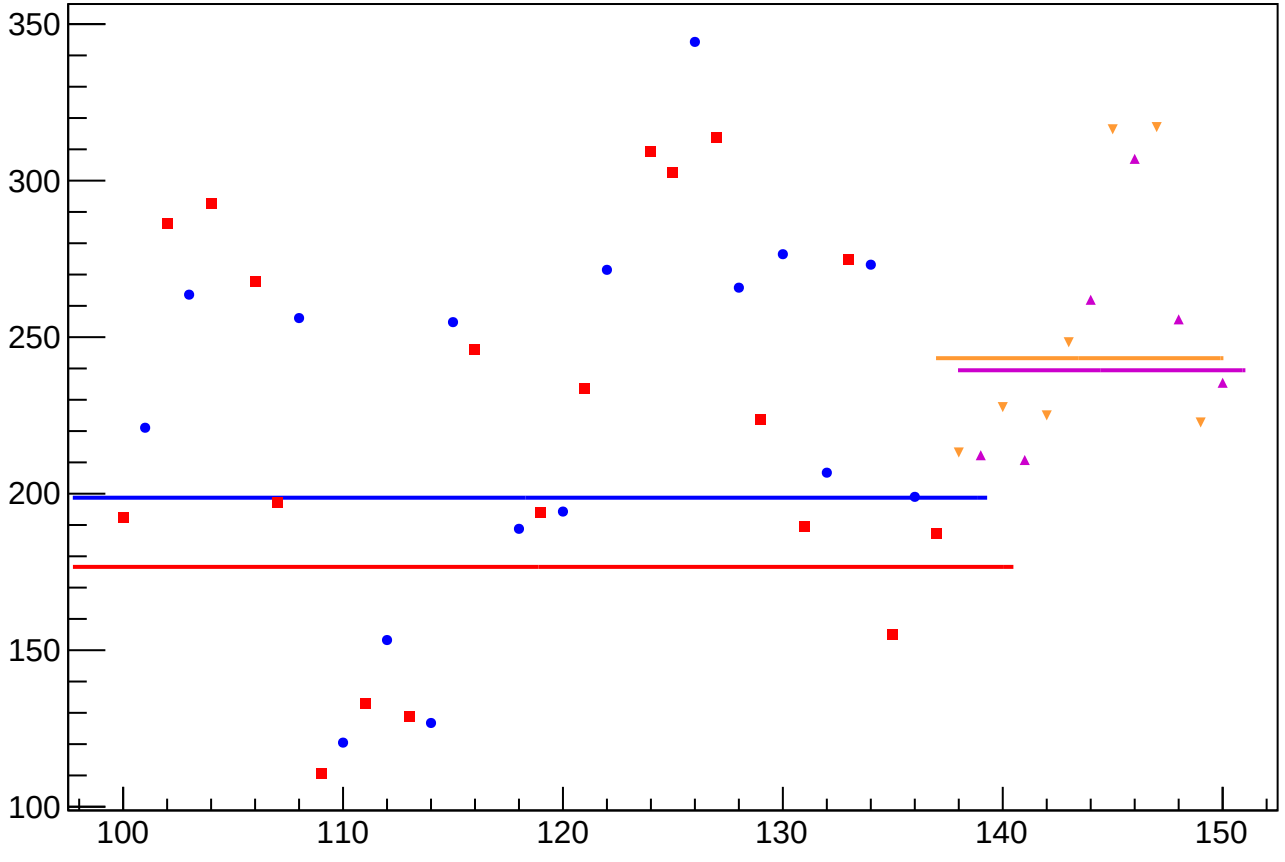
Right: -108.074+/-52.040 $\chi^2$/NDF: 26.2/34

In: 58.272+/-62.837 $\chi^2$/NDF:22.9/21

Out: -15.949+/-58.558 $\chi^2$/NDF:23.7/25

All: 18.548+/-42.840 $\chi^2$/NDF: 47.4/47

# asym_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 198.718+/-0.055 $\chi^2$/NDF: 994068.9/15

Left Out: 243.287+/-0.076 $\chi^2$/NDF:233601.5/6

Right Out: 176.621+/-0.049 $\chi^2$/NDF: 1595710.1/18

Left In: 239.426+/-0.075 $\chi^2$/NDF:165152.0/5

Left: 241.338+/-0.053 $\chi^2$/NDF: 400063.0/12

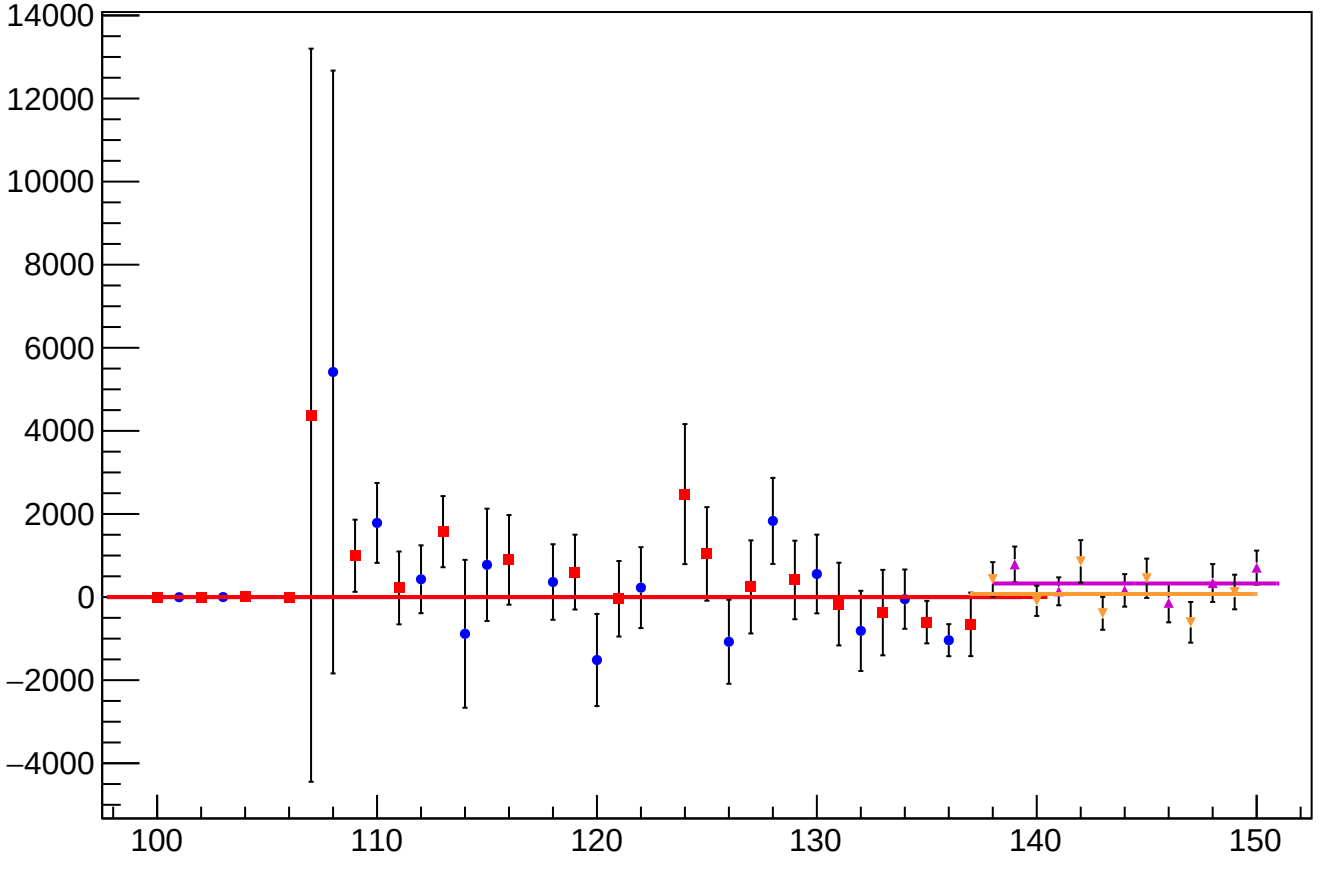
Right: 186.471+/-0.037 $\chi^2$/NDF: 2678866.0/34

In: 212.970+/-0.044 $\chi^2$/NDF:1350195.9/21

Out: 196.503+/-0.041 $\chi^2$/NDF:2371818.7/25

All: 204.157+/-0.030 $\chi^2$/NDF: 3795526.0/47

# asym_cav4bQ_mean vs Slug, Sign Corrected




Right In: -1.239+/-2.171 $\chi^2$/NDF: 19.9/15

Left Out: 74.447+/-162.179 $\chi^2$/NDF:7.3/6

Right Out: 1.377+/-2.022 $\chi^2$/NDF: 16.8/18

Left In: 327.089+/-166.423 $\chi^2$/NDF:3.5/5

Left: 197.506+/-116.149 $\chi^2$/NDF: 11.9/12

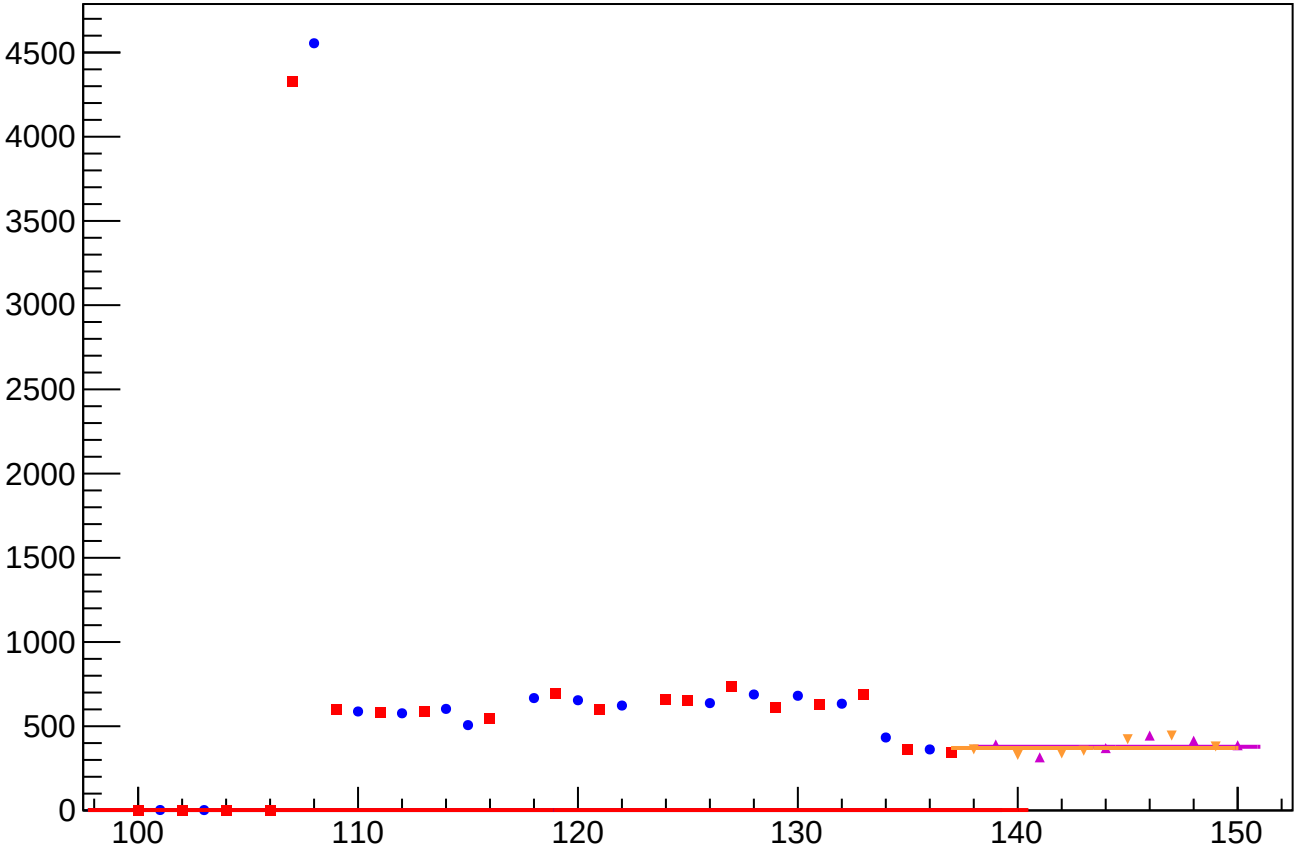
Right: 0.162+/-1.480 $\chi^2$/NDF: 37.5/34

In: -1.183+/-2.171 $\chi^2$/NDF:27.3/21

Out: 1.389+/-2.022 $\chi^2$/NDF:24.3/25

All: 0.194+/-1.480 $\chi^2$/NDF: 52.4/47

# asym_cav4bQ_rms vs Slug, Sign Corrected




Right In: 2.477+/-0.002 $\chi^2$/NDF: 11626192.3/15

Left Out: 370.879+/-0.115 $\chi^2$/NDF:108448.1/6

Right Out: 2.462+/-0.001 $\chi^2$/NDF: 11545445.6/18

Left In: 378.079+/-0.118 $\chi^2$/NDF:125588.9/5

Left: 374.386+/-0.082 $\chi^2$/NDF: 235957.4/12

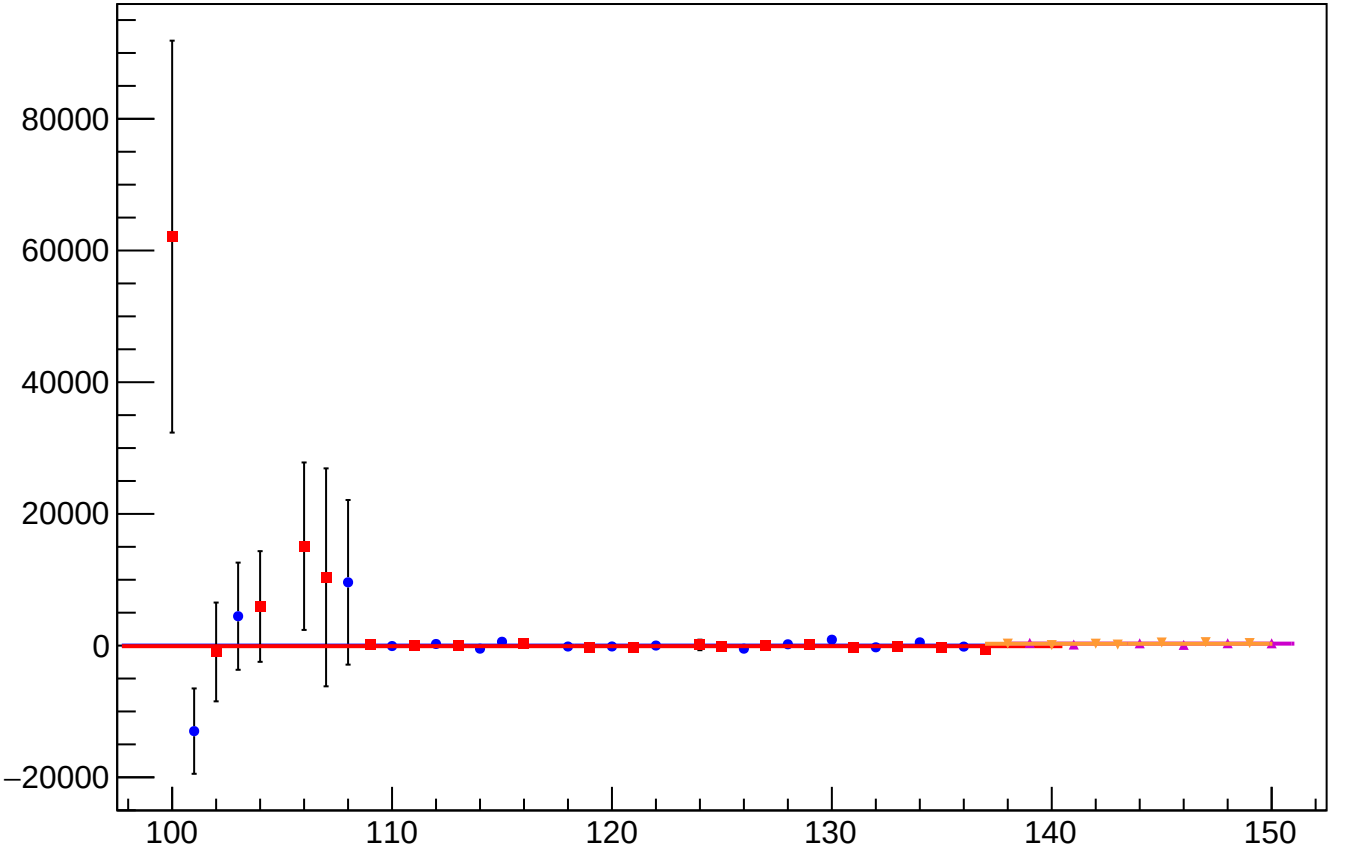
Right: 2.469+/-0.001 $\chi^2$/NDF: 23171686.0/34

In: 2.541+/-0.002 $\chi^2$/NDF:21937355.5/21

Out: 2.519+/-0.001 $\chi^2$/NDF:21973198.3/25

All: 2.529+/-0.001 $\chi^2$/NDF: 43910655.4/47

# asym_cav4cQ_mean vs Slug, Sign Corrected




Right In: 0.575+/-87.823 $\chi^2$/NDF: 16.8/15

Left Out: 280.291+/-112.779 $\chi^2$/NDF:1.7/6

Right Out: -88.089+/-81.605 $\chi^2$/NDF: 14.9/18

Left In: 299.843+/-110.778 $\chi^2$/NDF:1.0/5

Left: 290.242+/-79.030 $\chi^2$/NDF: 2.7/12

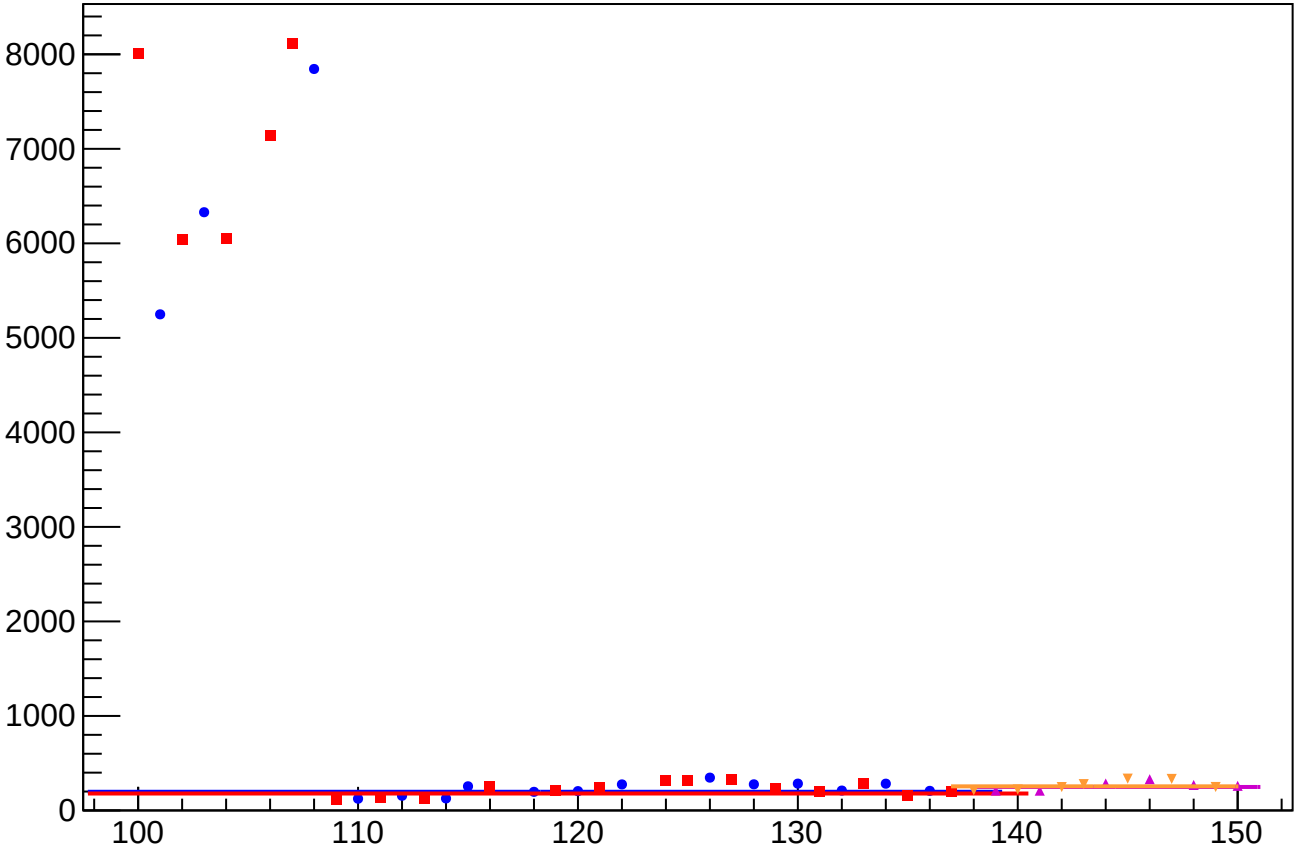
Right: -47.007+/-59.781 $\chi^2$/NDF: 32.3/34

In: 116.074+/-68.820 $\chi^2$/NDF:22.3/21

Out: 38.504+/-66.113 $\chi^2$/NDF:23.5/25

All: 75.734+/-47.677 $\chi^2$/NDF: 46.5/47

# asym_cav4cQ_rms vs Slug, Sign Corrected




Right In: 197.620+/-0.062 $\chi^2$/NDF: 3957192.6/15

Left Out: 255.009+/-0.080 $\chi^2$/NDF:294436.7/6

Right Out: 179.250+/-0.058 $\chi^2$/NDF: 4418422.9/18

Left In: 248.413+/-0.078 $\chi^2$/NDF:265968.8/5

Left: 251.652+/-0.056 $\chi^2$/NDF: 563887.4/12

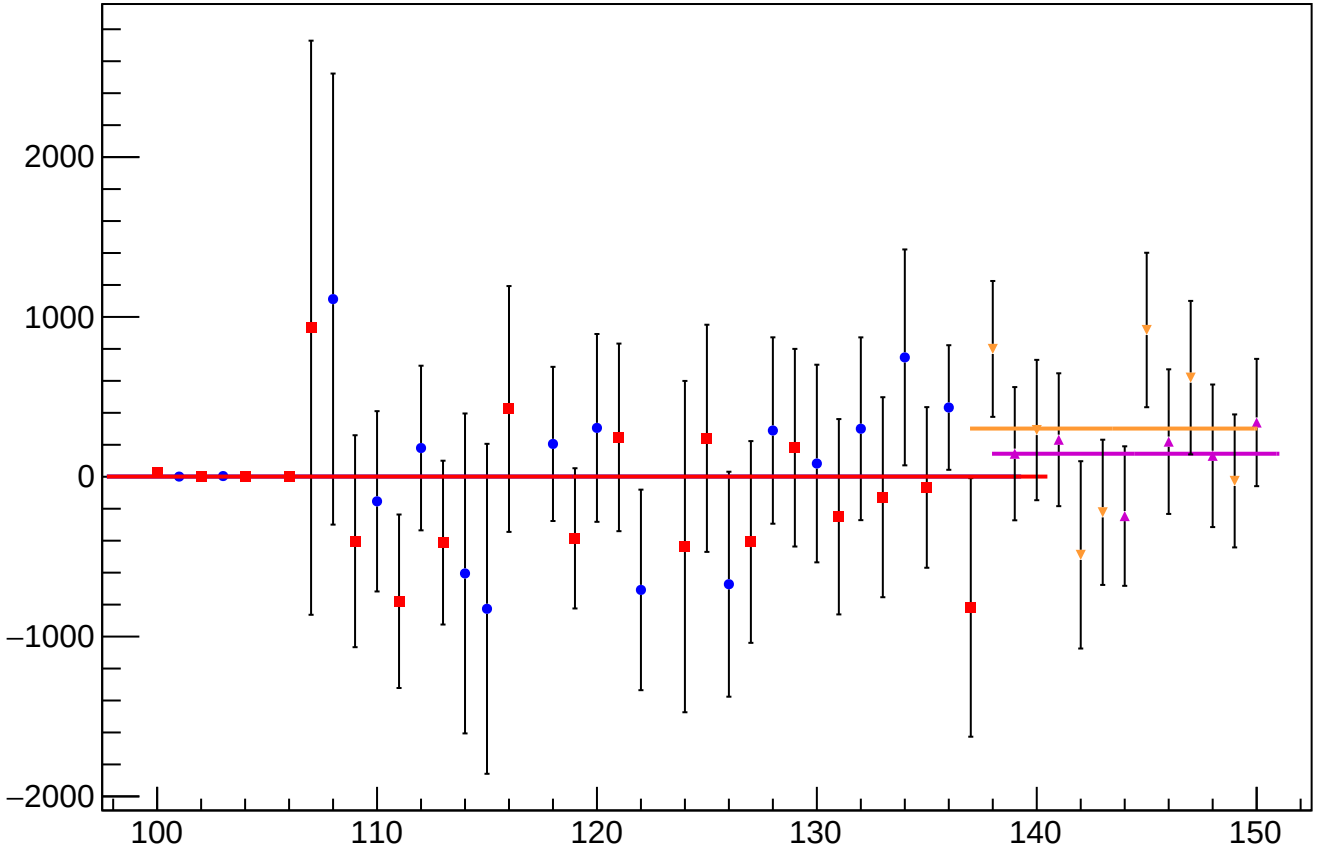
Right: 187.761+/-0.042 $\chi^2$/NDF: 8422574.8/34

In: 217.223+/-0.049 $\chi^2$/NDF:4481354.3/21

Out: 205.284+/-0.047 $\chi^2$/NDF:5305211.8/25

All: 211.014+/-0.034 $\chi^2$/NDF: 9817866.5/47

# asym_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1.456+/-1.660 $\chi^2$/NDF: 7.9/15

Left Out: 301.554+/-174.411 $\chi^2$/NDF:7.2/6

Right Out: 1.094+/-1.528 $\chi^2$/NDF: 9.2/18

Left In: 144.000+/-174.056 $\chi^2$/NDF:1.1/5

Left: 222.616+/-123.201 $\chi^2$/NDF: 8.7/12

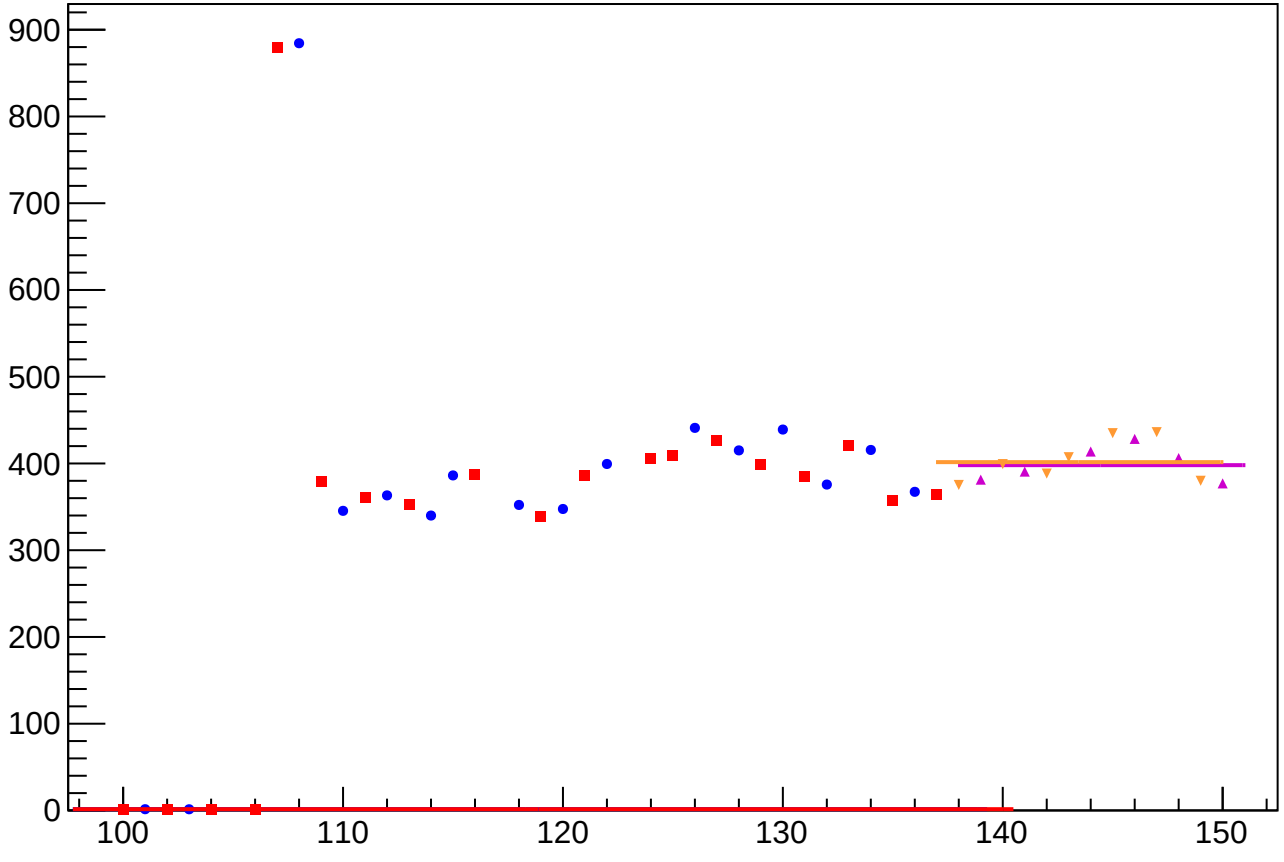
Right: 1.260+/-1.124 $\chi^2$/NDF: 17.1/34

In: 1.469+/-1.660 $\chi^2$/NDF:9.7/21

Out: 1.117+/-1.528 $\chi^2$/NDF:19.3/25

All: 1.278+/-1.124 $\chi^2$/NDF: 29.0/47

# asym_cav4dQ_rms vs Slug, Sign Corrected




Right In: 1.470+/-0.001 $\chi^2$/NDF: 11735334.0/15

Left Out: 401.541+/-0.123 $\chi^2$/NDF:34261.2/6

Right Out: 1.467+/-0.001 $\chi^2$/NDF: 11270430.6/18

Left In: 398.058+/-0.123 $\chi^2$/NDF:21646.9/5

Left: 399.796+/-0.087 $\chi^2$/NDF: 56307.8/12

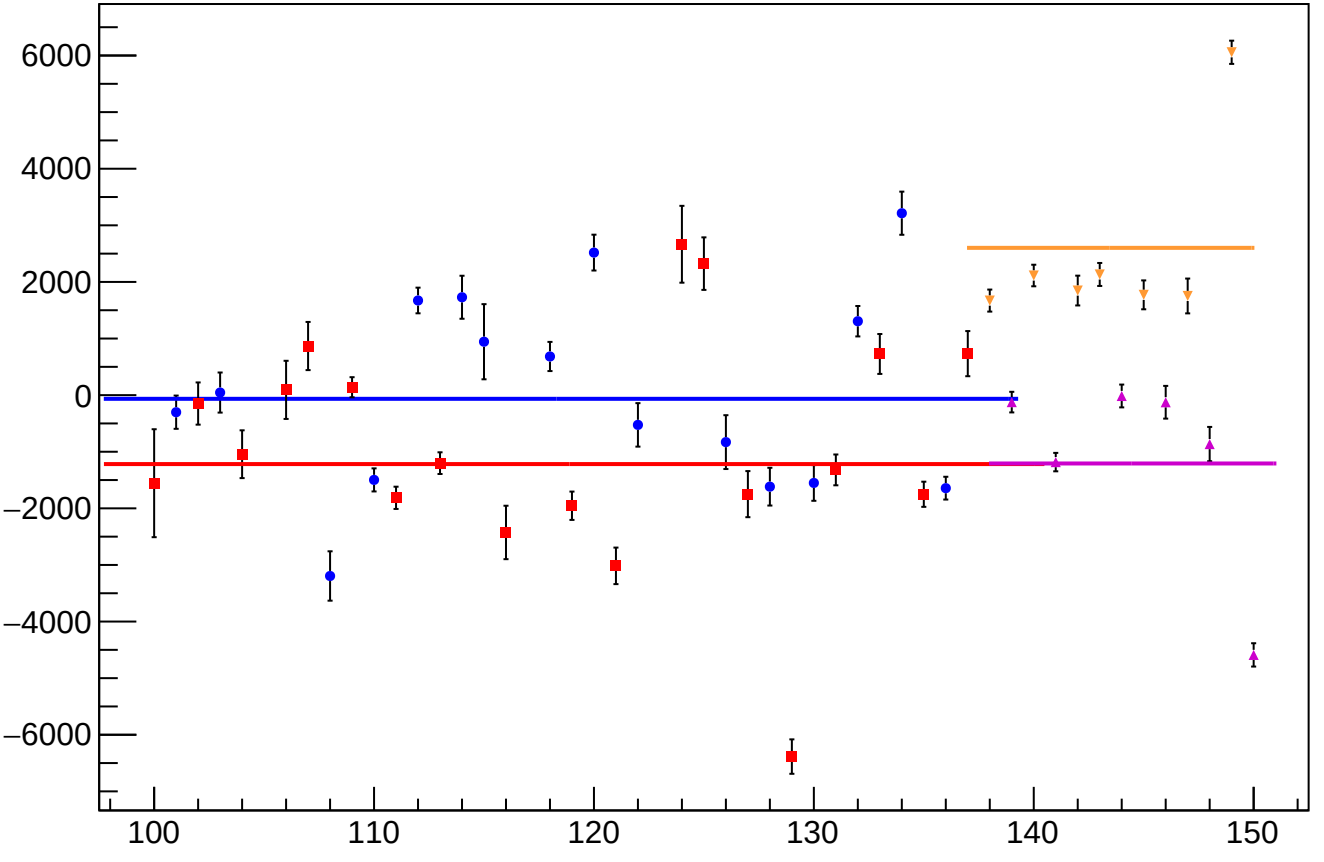
Right: 1.469+/-0.001 $\chi^2$/NDF: 23005768.2/34

In: 1.506+/-0.001 $\chi^2$/NDF:22139265.1/21

Out: 1.498+/-0.001 $\chi^2$/NDF:21827485.2/25

All: 1.502+/-0.001 $\chi^2$/NDF: 43966778.1/47

# asym_bcm0l02_mean vs Slug, Sign Corrected




Right In: -64.993+/-74.895 $\chi^2$/NDF: 469.5/15

Left Out: 2602.120+/-83.826 $\chi^2$/NDF:344.9/6

Right Out: -1217.846+/-69.022 $\chi^2$/NDF: 594.6/18

Left In: -1207.285+/-84.829 $\chi^2$/NDF:355.4/5

Left: 720.084+/-59.625 $\chi^2$/NDF: 1720.6/12

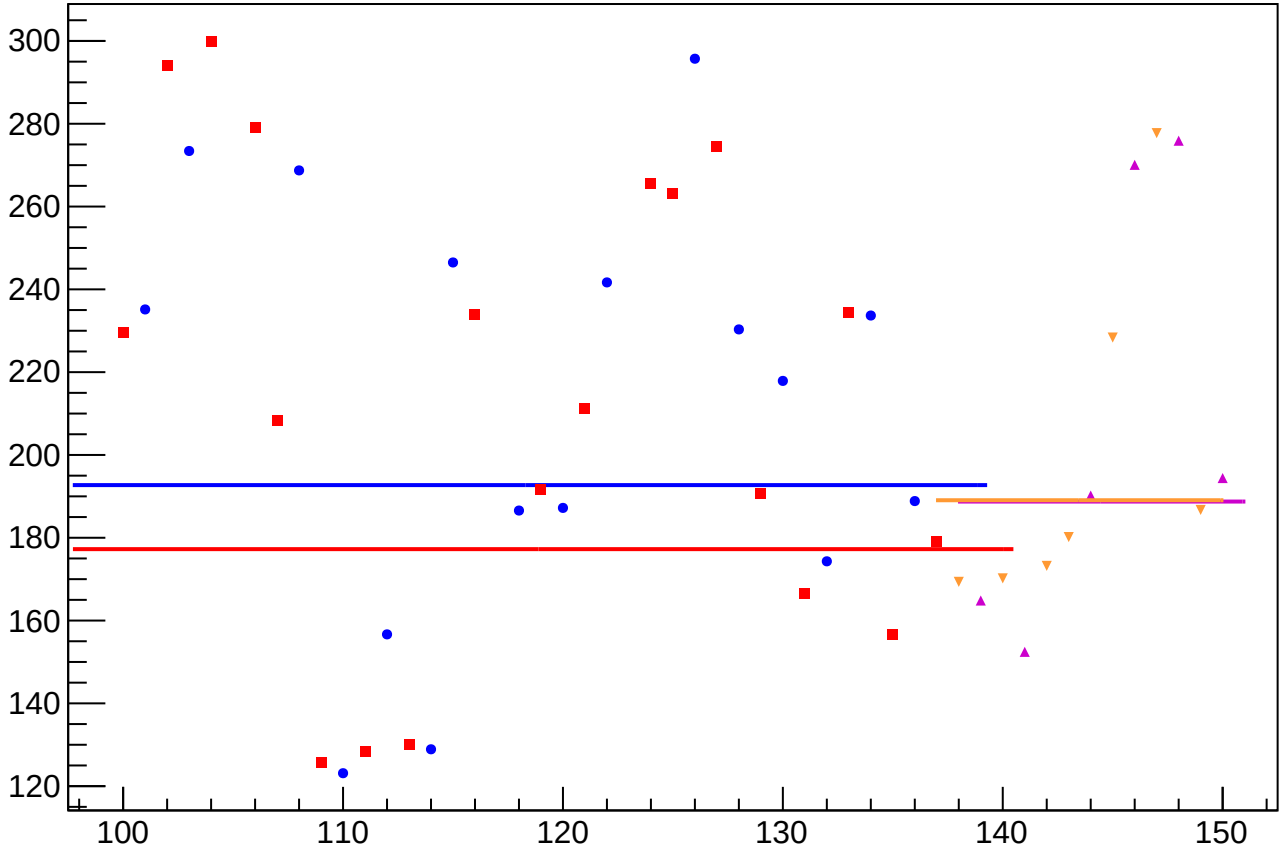
Right: -688.385+/-50.755 $\chi^2$/NDF: 1192.2/34

In: -565.366+/-56.144 $\chi^2$/NDF:926.7/21

Out: 325.605+/-53.284 $\chi^2$/NDF:2177.1/25

All: -96.606+/-38.649 $\chi^2$/NDF: 3236.3/47

# asym_bcm0l02_rms vs Slug, Sign Corrected




Right In: 192.719+/-0.053 $\chi^2$/NDF: 759146.3/15

Left Out: 189.060+/-0.059 $\chi^2$/NDF:265087.1/6

Right Out: 177.251+/-0.049 $\chi^2$/NDF: 1226180.2/18

Left In: 188.745+/-0.060 $\chi^2$/NDF:459109.7/5

Left: 188.905+/-0.042 $\chi^2$/NDF: 724210.8/12

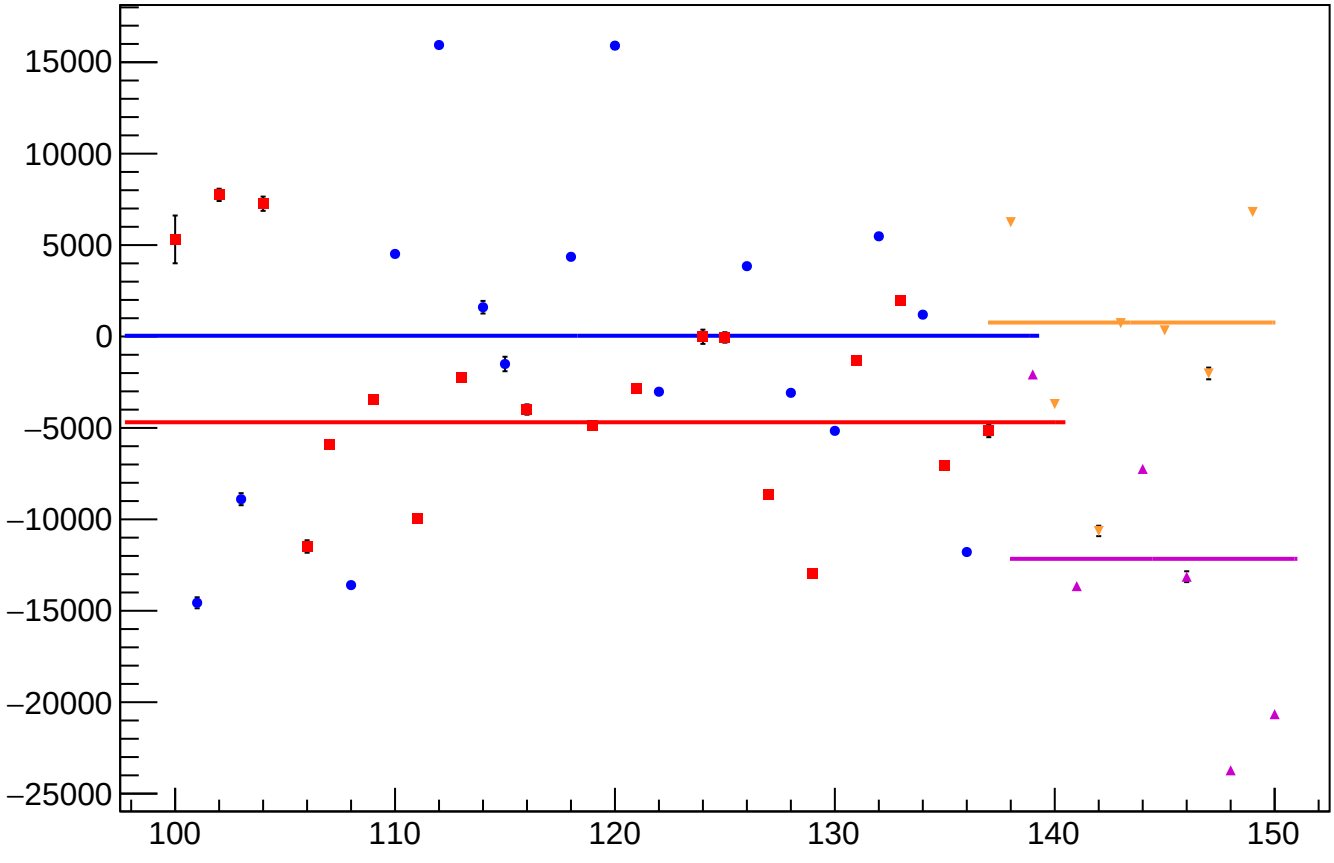
Right: 184.355+/-0.036 $\chi^2$/NDF: 2031455.3/34

In: 190.978+/-0.040 $\chi^2$/NDF:1220722.5/21

Out: 182.023+/-0.038 $\chi^2$/NDF:1514921.0/25

All: 186.267+/-0.027 $\chi^2$/NDF: 2762417.6/47

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: 764.615+/-89.854 $\chi^2$/NDF:3645.4/6

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -12158.886+/-91.352 $\chi^2$/NDF:6847.6/5

Left: -5590.295+/-64.059 $\chi^2$/NDF: 20665.2/12

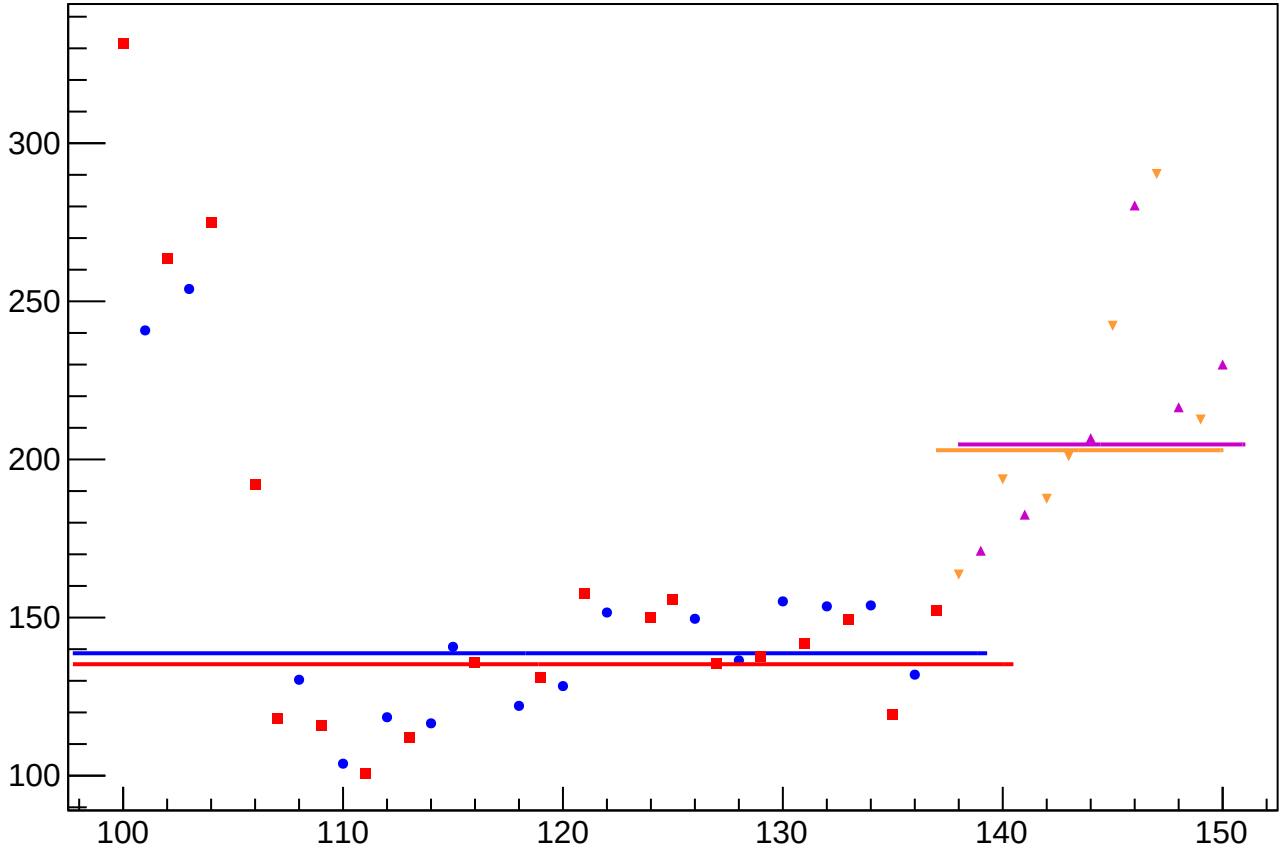
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -3135.369+/-46.612 $\chi^2$/NDF:50825.4/21

Out: -3317.532+/-45.068 $\chi^2$/NDF:14198.8/25

All: -3229.517+/-32.400 $\chi^2$/NDF: 65032.1/47

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 202.921+/-0.064 $\chi^2$/NDF:292889.2/6

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 204.744+/-0.065 $\chi^2$/NDF:245499.5/5

Left: 203.817+/-0.045 $\chi^2$/NDF: 538793.7/12

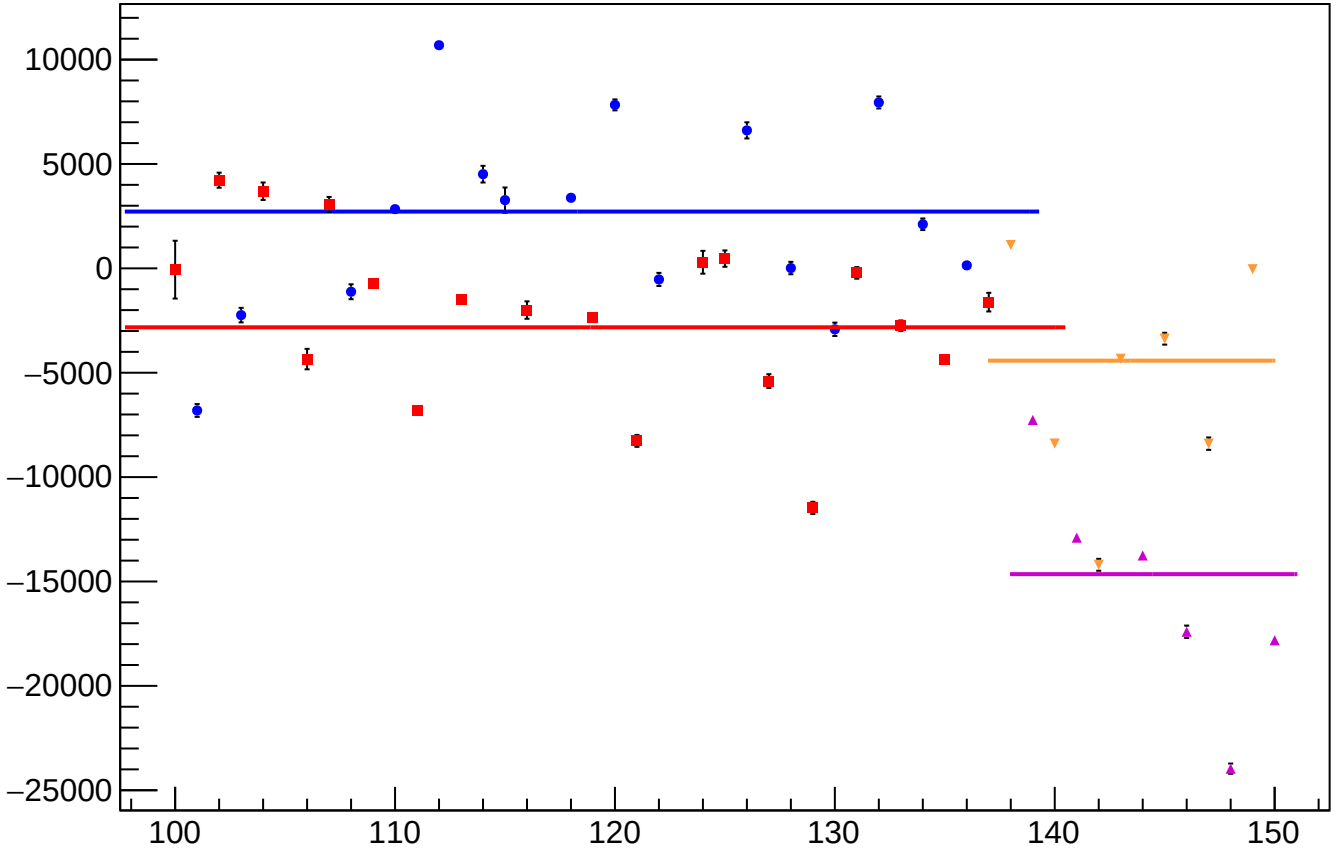
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 155.904+/-0.033 $\chi^2$/NDF:1676199.4/21

Out: 152.271+/-0.032 $\chi^2$/NDF:2032033.3/25

All: 154.026+/-0.023 $\chi^2$/NDF: 3714512.3/47

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -4422.078+/-90.045 $\chi^2$/NDF:2867.6/6

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -14648.323+/-90.769 $\chi^2$/NDF:3209.9/5

Left: -9494.225+/-63.926 $\chi^2$/NDF: 12474.8/12

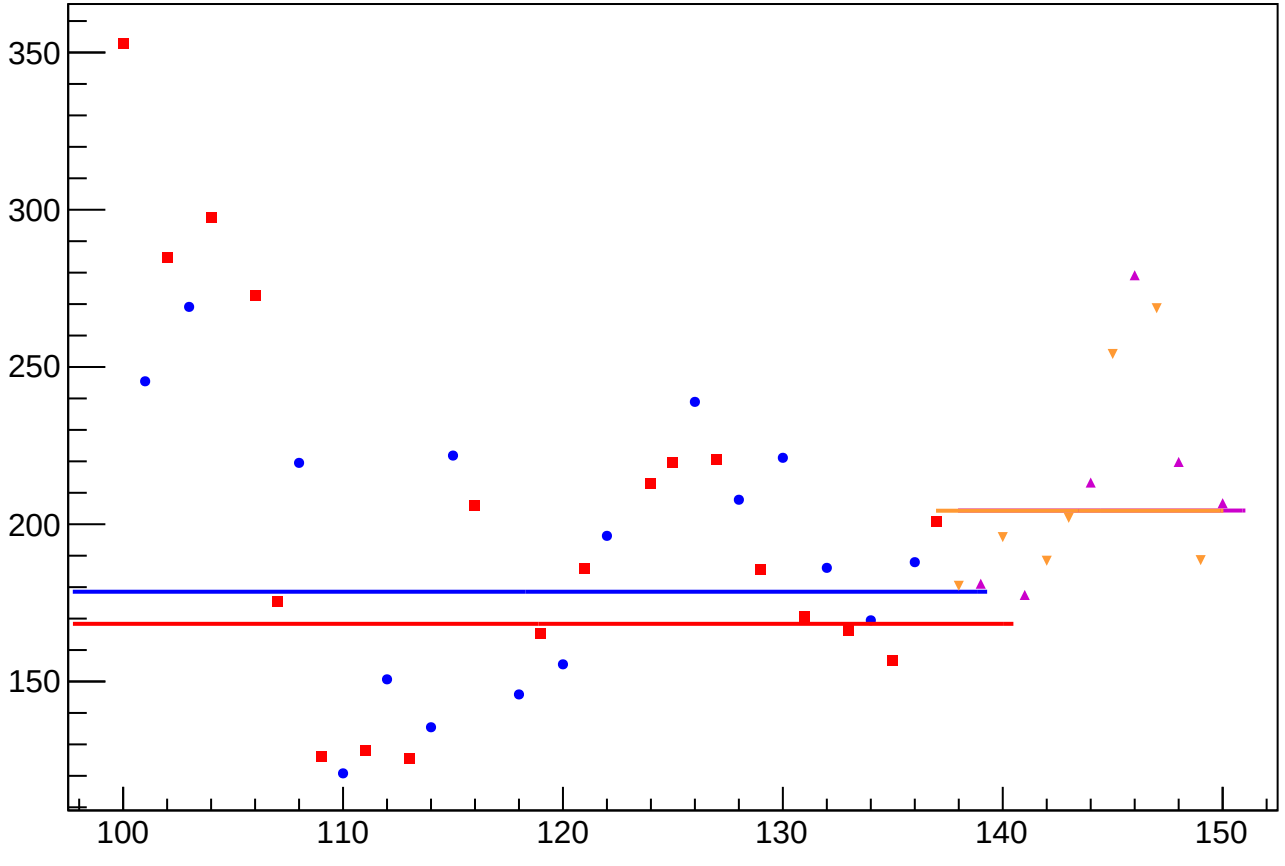
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -3669.695+/-55.055 $\chi^2$/NDF:30482.6/21

Out: -3369.591+/-52.623 $\chi^2$/NDF:6137.9/25

All: -3512.869+/-38.041 $\chi^2$/NDF: 36636.0/47

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 204.301+/-0.064 $\chi^2$/NDF:203307.6/6

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 204.357+/-0.064 $\chi^2$/NDF:206056.2/5

Left: 204.329+/-0.045 $\chi^2$/NDF: 409364.2/12

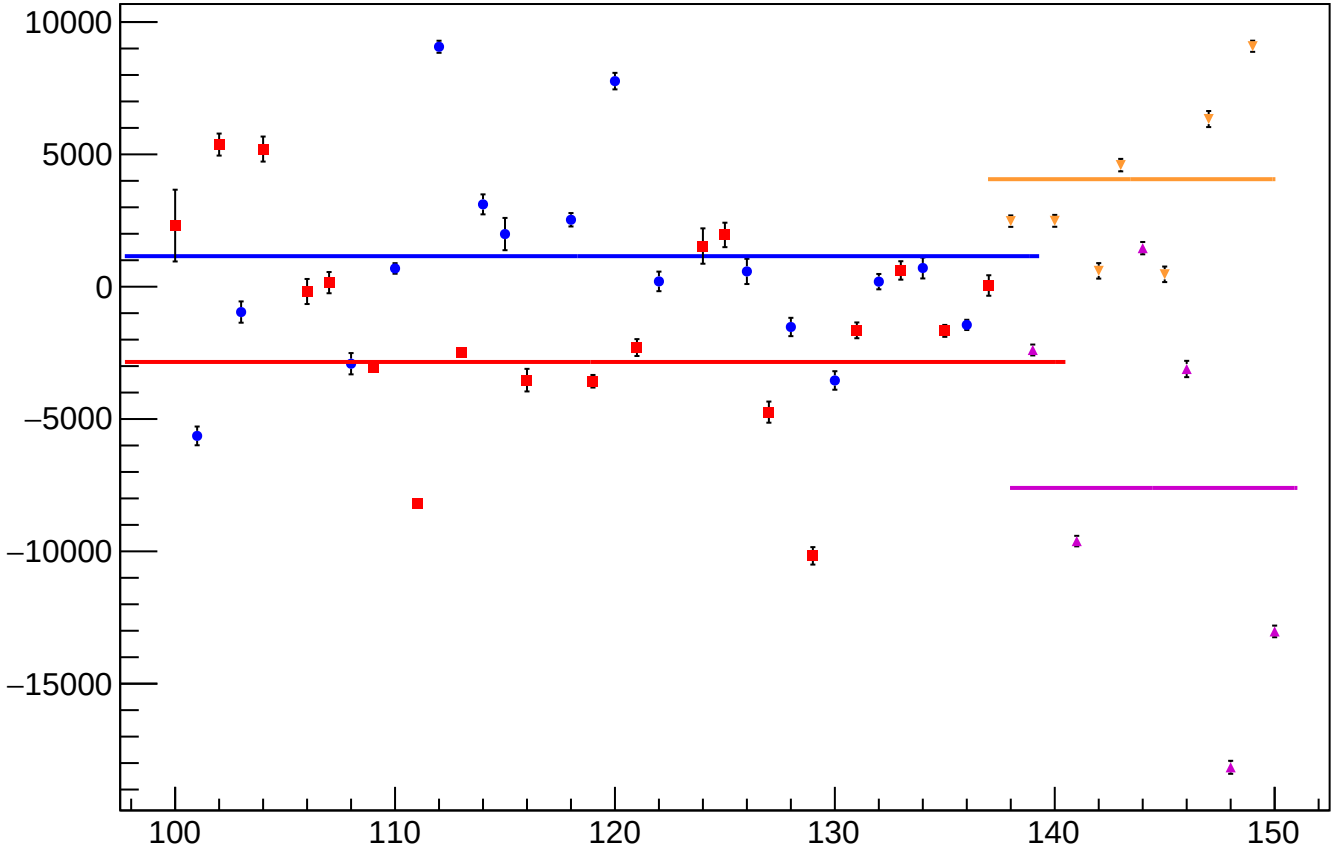
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 188.039+/-0.039 $\chi^2$/NDF:982890.6/21

Out: 180.619+/-0.037 $\chi^2$/NDF:1392904.3/25

All: 184.161+/-0.027 $\chi^2$/NDF: 2394779.0/47

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 4062.480+/-92.926 $\chi^2$/NDF:1020.2/6

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -7603.653+/-93.178 $\chi^2$/NDF:4927.1/5

Left: -1754.788+/-65.798 $\chi^2$/NDF: 13806.3/12

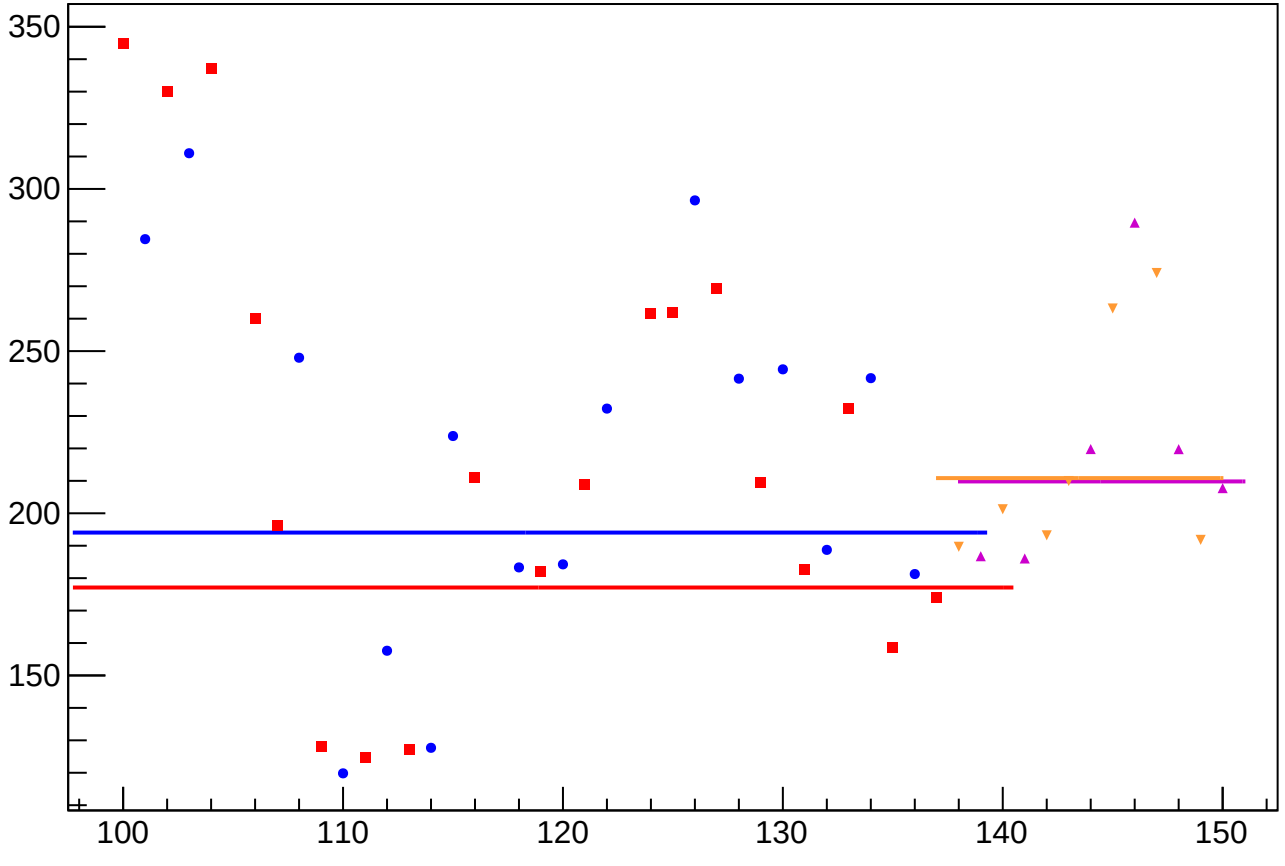
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -2342.367+/-58.874 $\chi^2$/NDF:12889.3/21

Out: -383.021+/-55.470 $\chi^2$/NDF:7028.7/25

All: -1304.418+/-40.373 $\chi^2$/NDF: 20504.8/47

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 210.847+/-0.066 $\chi^2$/NDF:196634.9/6

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 209.821+/-0.066 $\chi^2$/NDF:195042.9/5

Left: 210.335+/-0.047 $\chi^2$/NDF: 391799.5/12

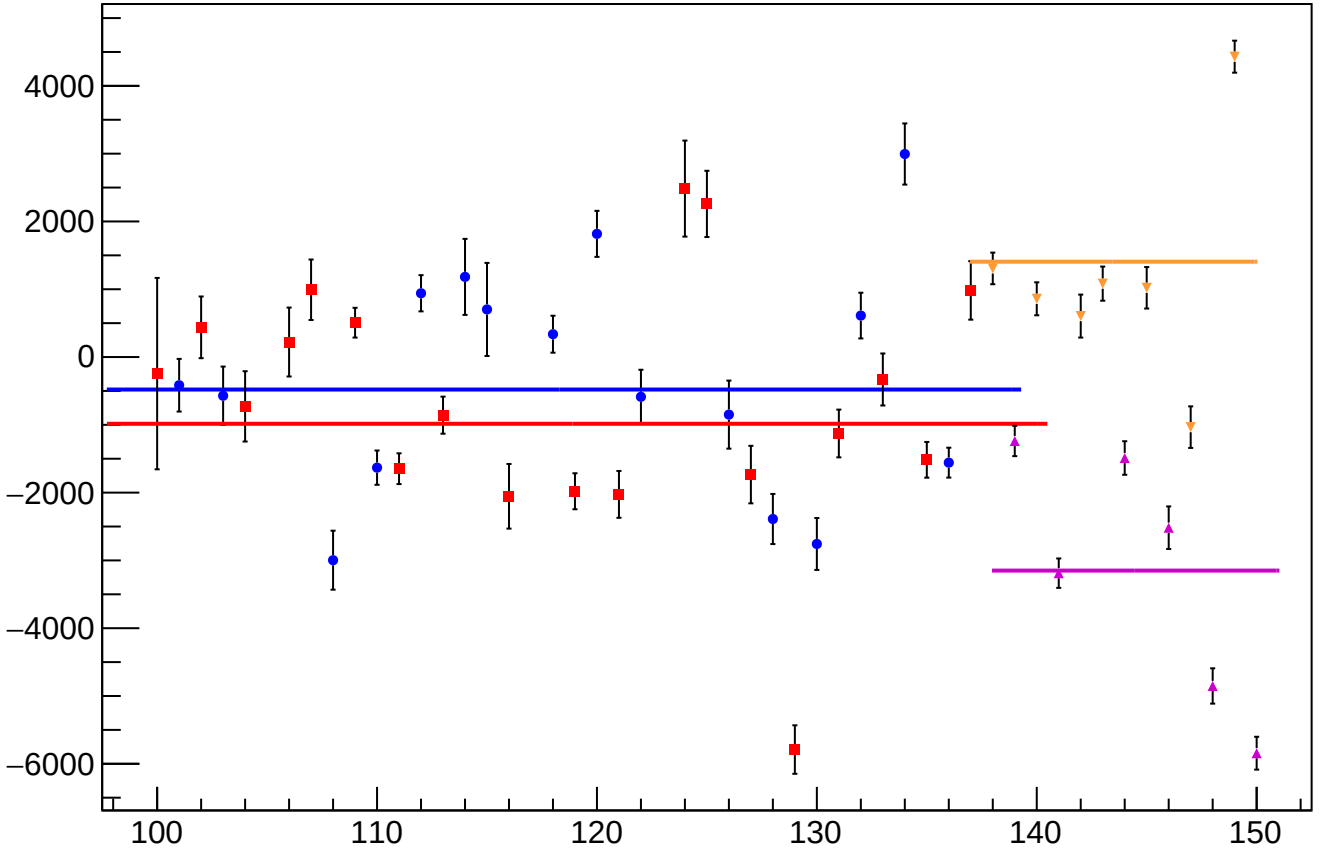
Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 200.348+/-0.042 $\chi^2$/NDF:1195236.8/21

Out: 189.134+/-0.039 $\chi^2$/NDF:1725614.7/25

All: 194.408+/-0.029 $\chi^2$/NDF: 2959285.7/47

# asym_bpm0i07WS_mean vs Slug, Sign Corrected




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 1406.365+/-99.862 $\chi^2$/NDF:242.3/6

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -3150.050+/-100.247 $\chi^2$/NDF:288.5/5

Left: -863.068+/-70.749 $\chi^2$/NDF: 1567.7/12

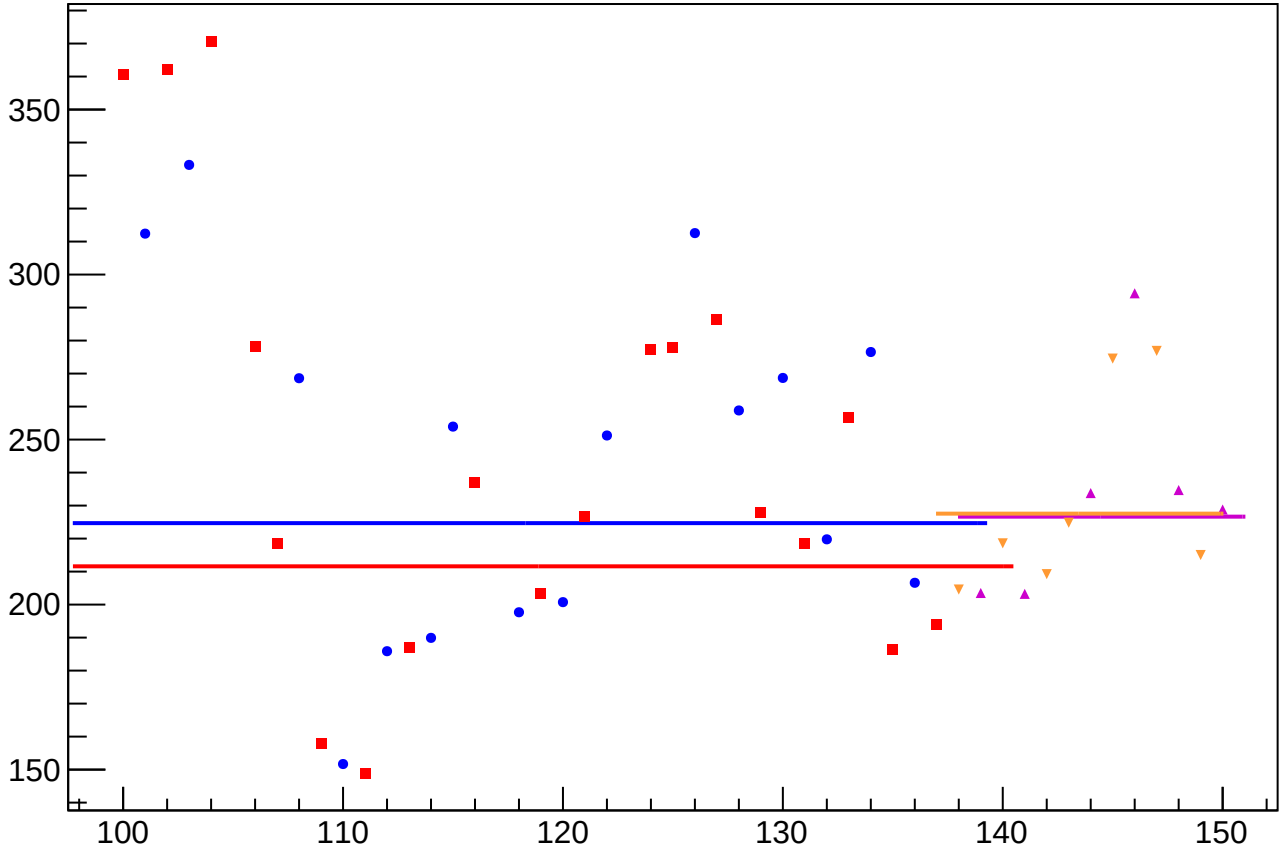
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -1621.923+/-65.570 $\chi^2$/NDF:1000.0/21

Out: -36.496+/-62.882 $\chi^2$/NDF:986.4/25

All: -796.045+/-45.385 $\chi^2$/NDF: 2290.9/47

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 227.560+/-0.071 $\chi^2$/NDF:133624.6/6

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 226.647+/-0.071 $\chi^2$/NDF:141440.4/5

Left: 227.105+/-0.050 $\chi^2$/NDF: 275148.2/12

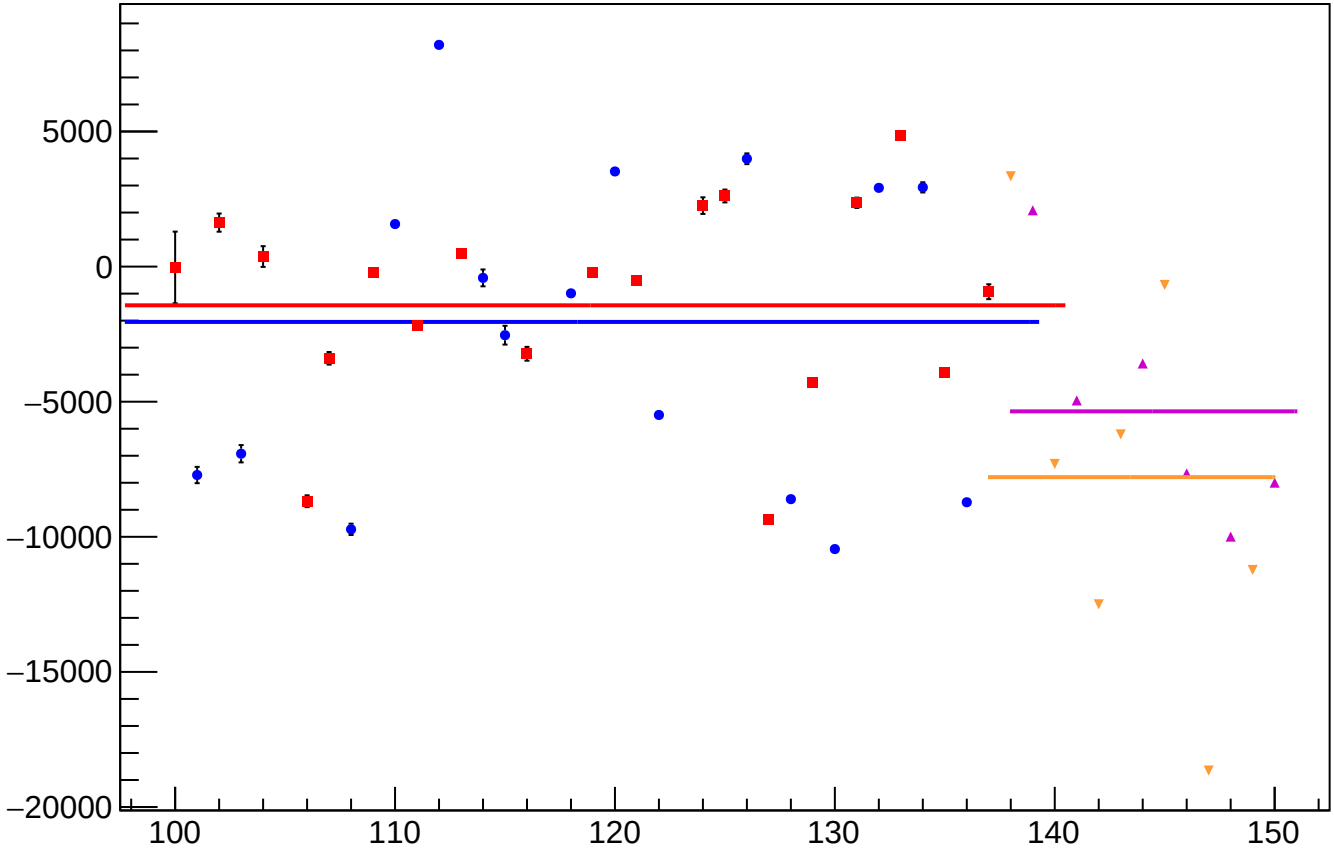
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 225.523+/-0.046 $\chi^2$/NDF:795073.2/21

Out: 217.925+/-0.044 $\chi^2$/NDF:1097374.8/25

All: 221.565+/-0.032 $\chi^2$/NDF: 1906437.0/47

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -7792.158+/-48.936 $\chi^2$/NDF:19956.2/6

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -5357.407+/-49.971 $\chi^2$/NDF:5925.2/5

Left: -6600.270+/-34.963 $\chi^2$/NDF: 27093.2/12

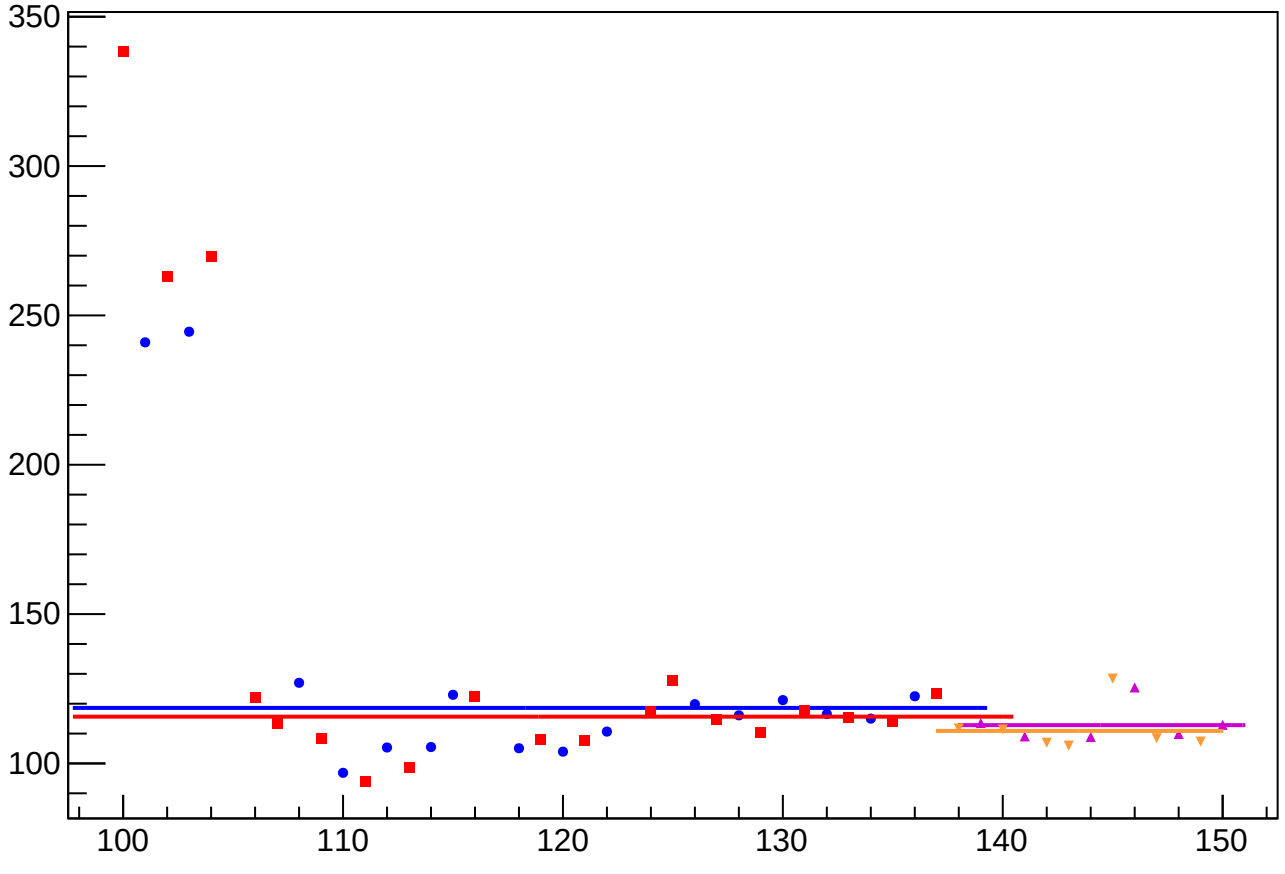
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -3591.220+/-34.128 $\chi^2$/NDF:24975.6/21

Out: -4327.490+/-33.015 $\chi^2$/NDF:35544.5/25

All: -3971.555+/-23.729 $\chi^2$/NDF: 60760.5/47

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 110.891+/-0.035 $\chi^2$/NDF:36512.9/6

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 112.822+/-0.035 $\chi^2$/NDF:23349.4/5

Left: 111.836+/-0.025 $\chi^2$/NDF: 61385.9/12

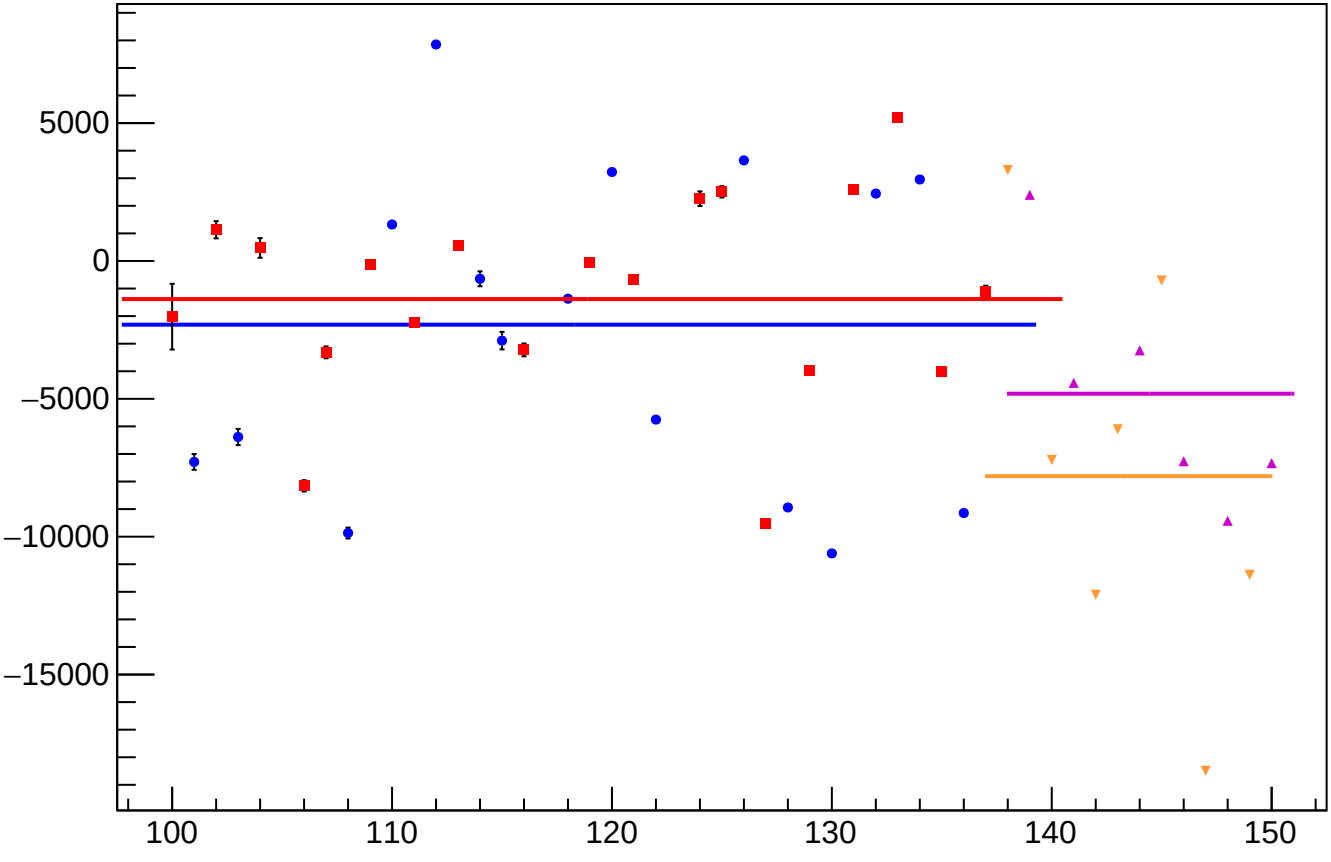
Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 115.903+/-0.024 $\chi^2$/NDF:771755.6/21

Out: 113.489+/-0.023 $\chi^2$/NDF:911064.7/25

All: 114.656+/-0.017 $\chi^2$/NDF: 1687986.9/47

# asym_bpm2i01WS_mean vs Slug, Sign Corrected




Right In: -2310.581+/-40.734 $\chi^2$/NDF: 21679.5/15

Left Out: -7806.247+/-45.001 $\chi^2$/NDF:23232.8/6

Right Out: -1382.178+/-39.342 $\chi^2$/NDF: 8578.9/18

Left In: -4814.536+/-45.790 $\chi^2$/NDF:6907.8/5

Left: -6336.401+/-32.096 $\chi^2$/NDF: 32312.0/12

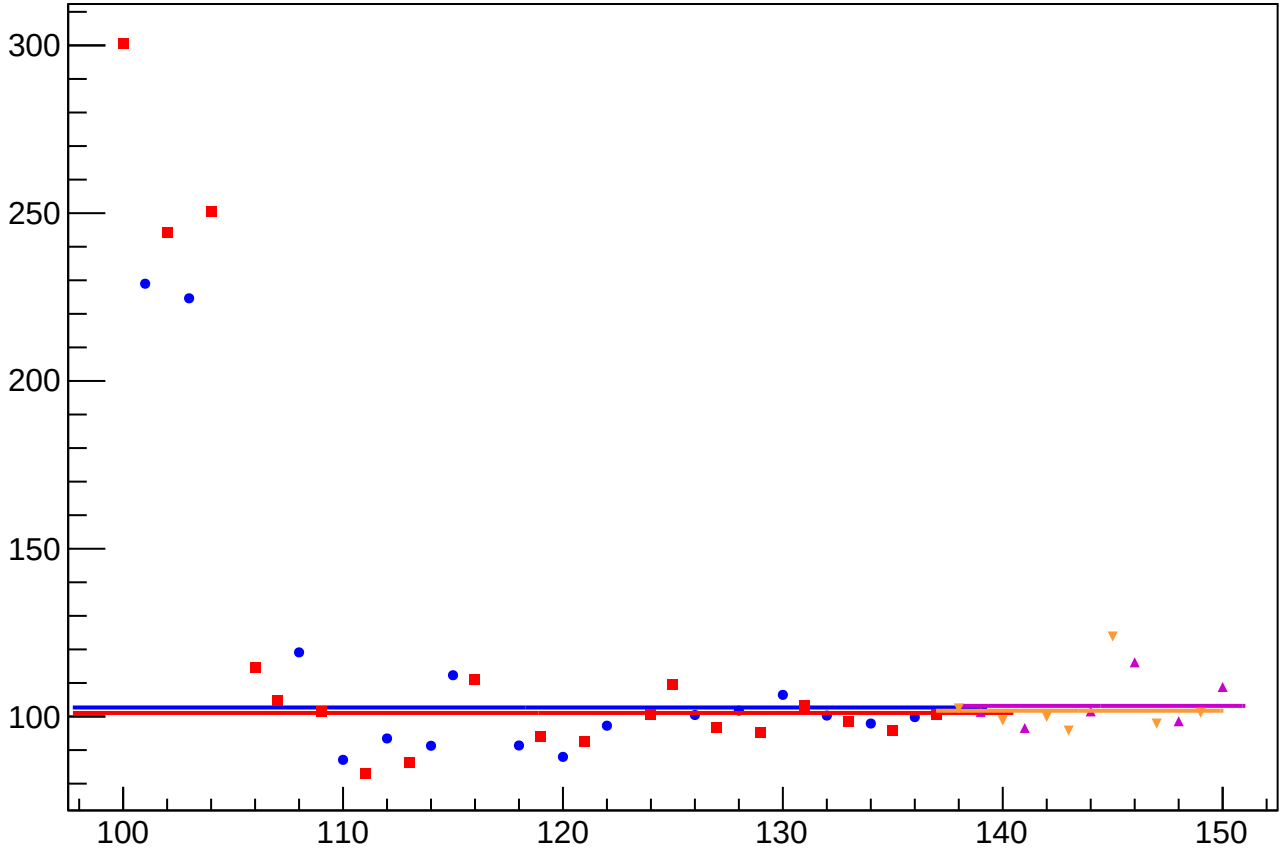
Right: -1830.238+/-28.298 $\chi^2$/NDF: 30527.1/34

In: -3416.746+/-30.435 $\chi^2$/NDF:30256.5/21

Out: -4165.117+/-29.619 $\chi^2$/NDF:43362.3/25

All: -3801.097+/-21.226 $\chi^2$/NDF: 73929.3/47

# asym_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 102.694+/-0.029 $\chi^2$/NDF: 825801.5/15

Left Out: 101.725+/-0.032 $\chi^2$/NDF:60267.1/6

Right Out: 101.063+/-0.028 $\chi^2$/NDF: 930458.1/18

Left In: 103.174+/-0.032 $\chi^2$/NDF:39102.7/5

Left: 102.437+/-0.023 $\chi^2$/NDF: 100389.0/12

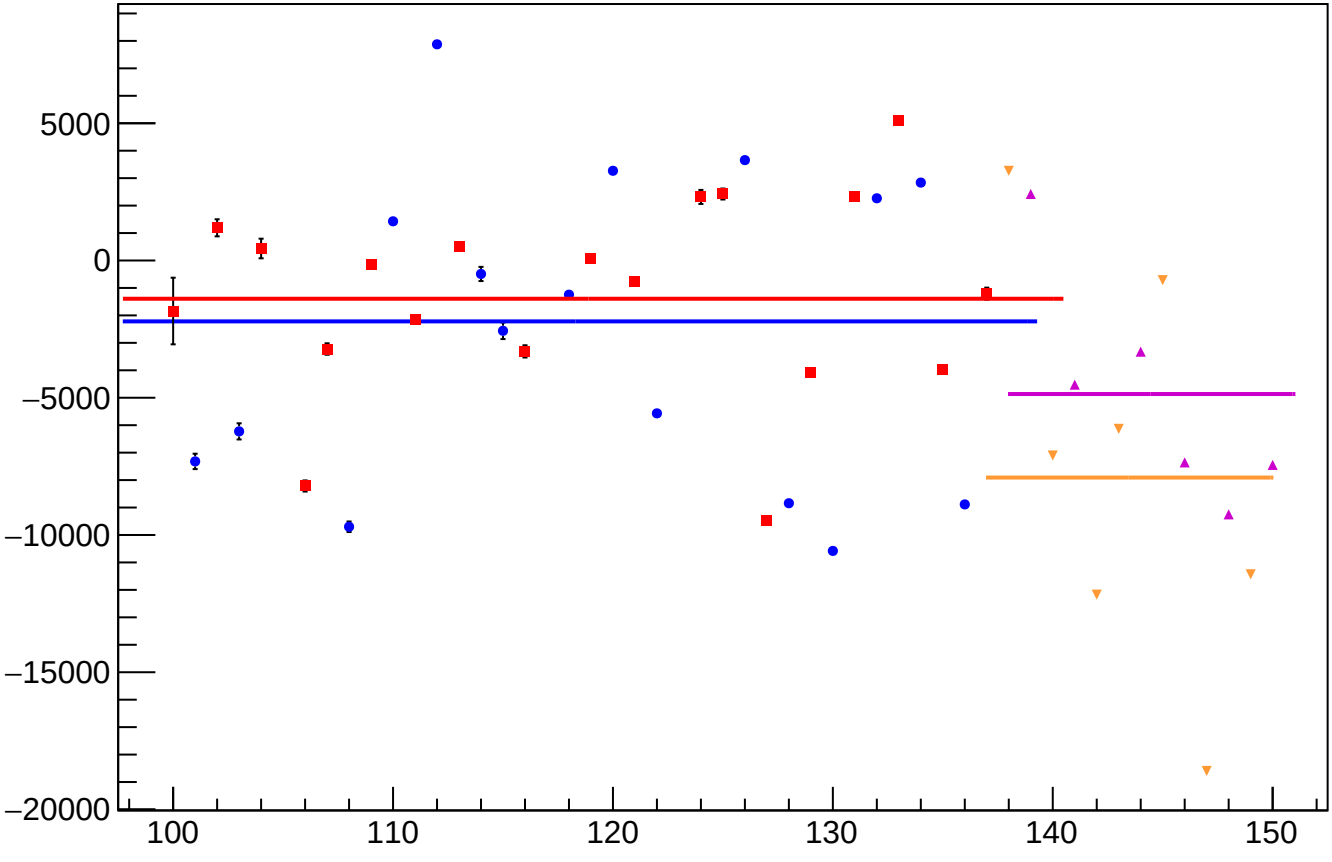
Right: 101.850+/-0.020 $\chi^2$/NDF: 1757917.4/34

In: 102.906+/-0.022 $\chi^2$/NDF:865027.1/21

Out: 101.350+/-0.021 $\chi^2$/NDF:990970.2/25

All: 102.107+/-0.015 $\chi^2$/NDF: 1858682.4/47

# asym_bpm2i02WS_mean vs Slug, Sign Corrected




Right In: -2218.049+/-39.039 $\chi^2$/NDF: 23040.7/15

Left Out: -7907.760+/-43.571 $\chi^2$/NDF:25380.4/6

Right Out: -1393.557+/-37.580 $\chi^2$/NDF: 9152.1/18

Left In: -4864.626+/-44.296 $\chi^2$/NDF:7319.4/5

Left: -6411.316+/-31.063 $\chi^2$/NDF: 35098.5/12

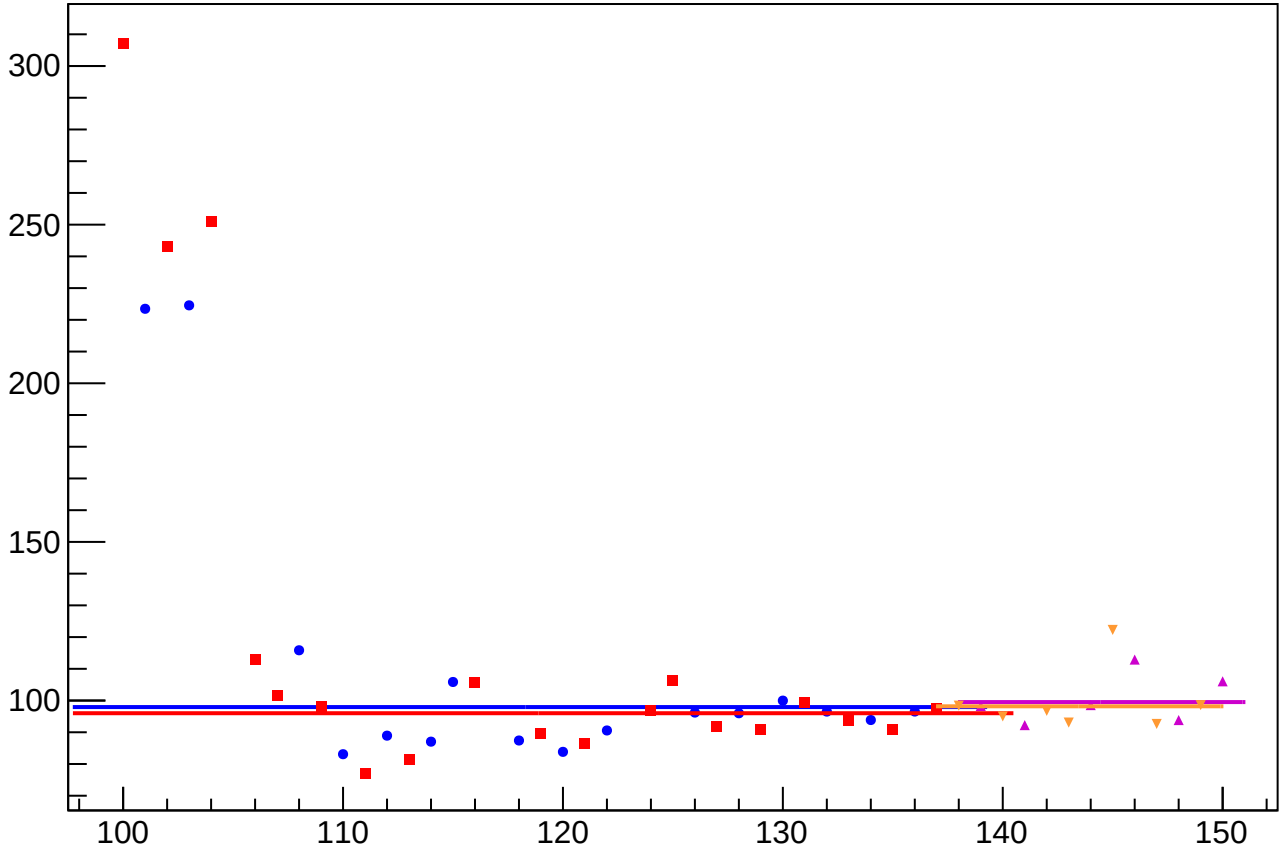
Right: -1790.108+/-27.074 $\chi^2$/NDF: 32424.3/34

In: -3375.024+/-29.288 $\chi^2$/NDF:32369.2/21

Out: -4172.326+/-28.457 $\chi^2$/NDF:47350.1/25

All: -3785.142+/-20.410 $\chi^2$/NDF: 80100.5/47

# asym_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 97.944+/-0.028 $\chi^2$/NDF: 868148.4/15

Left Out: 98.184+/-0.031 $\chi^2$/NDF:72984.5/6

Right Out: 96.005+/-0.027 $\chi^2$/NDF: 1012287.0/18

Left In: 99.517+/-0.031 $\chi^2$/NDF:48095.7/5

Left: 98.839+/-0.022 $\chi^2$/NDF: 122000.7/12

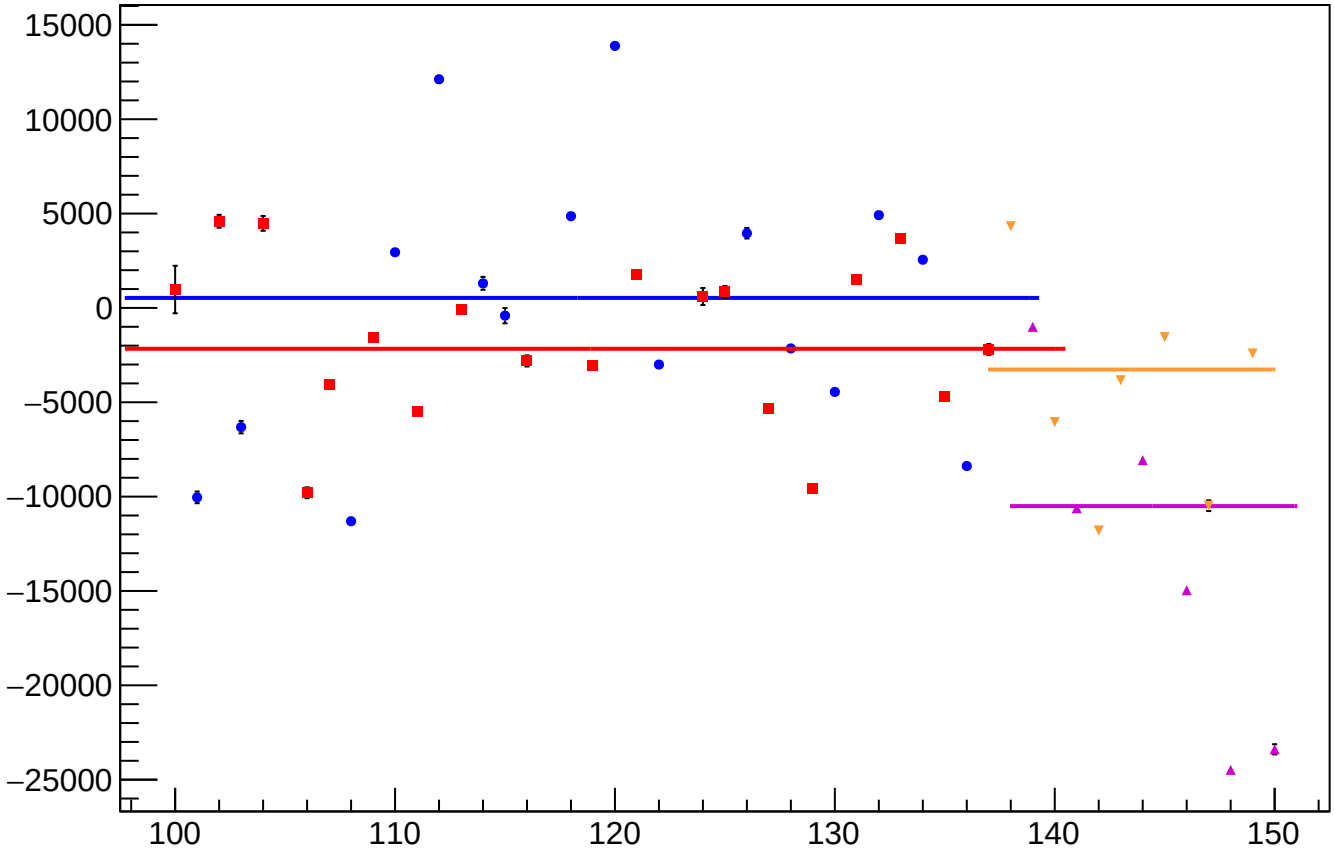
Right: 96.937+/-0.019 $\chi^2$/NDF: 1882996.0/34

In: 98.631+/-0.021 $\chi^2$/NDF:917664.2/21

Out: 96.934+/-0.020 $\chi^2$/NDF:1088140.6/25

All: 97.759+/-0.014 $\chi^2$/NDF: 2009258.9/47

# asym_bpm0i01WS_mean vs Slug, Sign Corrected




Right In: 530.568+/-54.855 $\chi^2$/NDF: 18587.6/15

Left Out: -3263.882+/-74.098 $\chi^2$/NDF:4744.0/6

Right Out: -2164.994+/-53.458 $\chi^2$/NDF: 4967.1/18

Left In: -10502.603+/-78.653 $\chi^2$/NDF:9319.8/5

Left: -6667.574+/-53.934 $\chi^2$/NDF: 18551.3/12

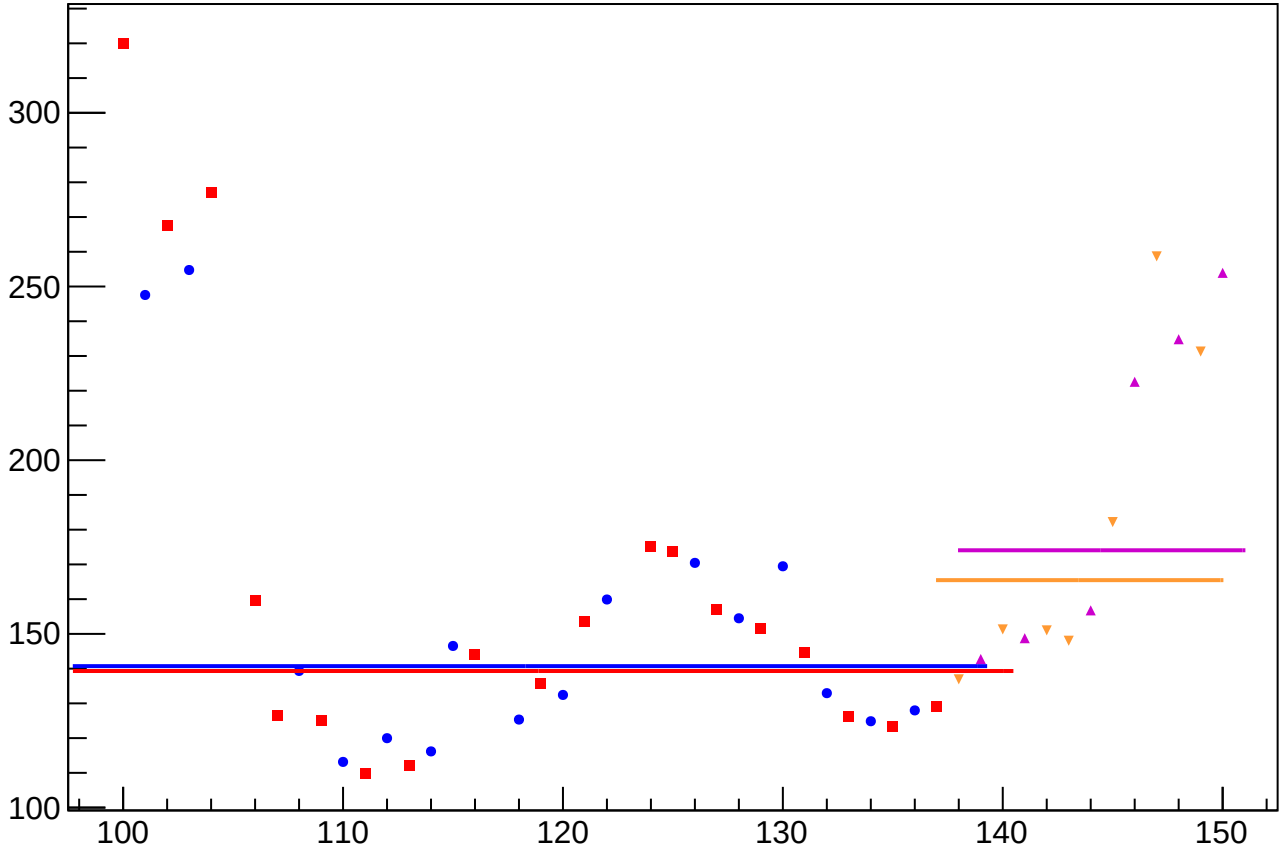
Right: -851.965+/-38.285 $\chi^2$/NDF: 24793.2/34

In: -3079.875+/-44.993 $\chi^2$/NDF:41145.7/21

Out: -2541.164+/-43.353 $\chi^2$/NDF:9855.8/25

All: -2800.524+/-31.219 $\chi^2$/NDF: 51075.9/47

# asym_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 140.715+/-0.039 $\chi^2$/NDF: 675618.7/15

Left Out: 165.471+/-0.052 $\chi^2$/NDF:471756.1/6

Right Out: 139.317+/-0.038 $\chi^2$/NDF: 802317.0/18

Left In: 174.070+/-0.056 $\chi^2$/NDF:519226.9/5

Left: 169.514+/-0.038 $\chi^2$/NDF: 1003646.9/12

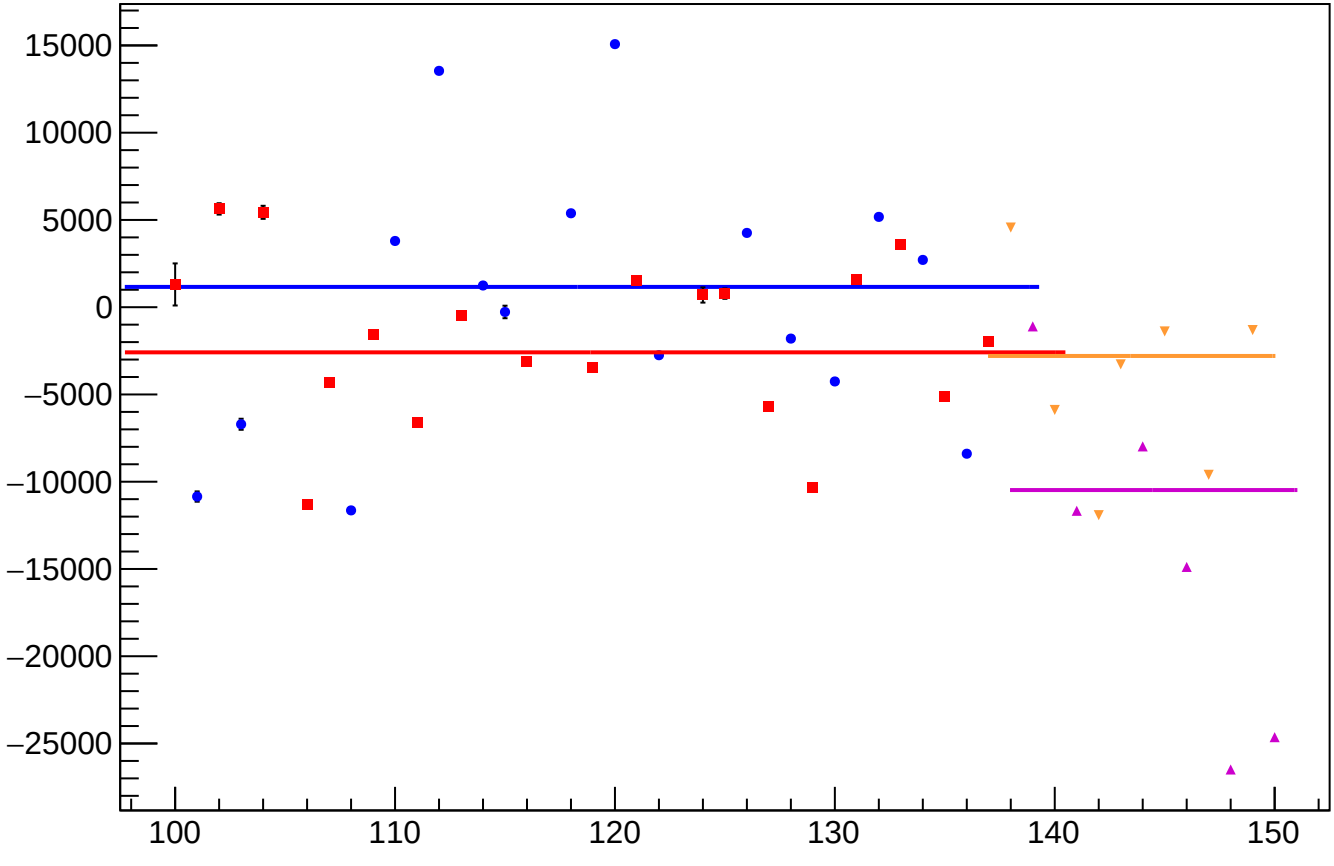
Right: 139.998+/-0.027 $\chi^2$/NDF: 1478602.2/34

In: 151.630+/-0.032 $\chi^2$/NDF:1436824.3/21

Out: 148.270+/-0.031 $\chi^2$/NDF:1437949.9/25

All: 149.888+/-0.022 $\chi^2$/NDF: 2880557.8/47

# asym_bpm0i01aWS_mean vs Slug, Sign Corrected




Right In: 1162.980+/-45.930 $\chi^2$/NDF: 30754.3/15

Left Out: -2793.783+/-66.531 $\chi^2$/NDF:6132.1/6

Right Out: -2586.755+/-44.256 $\chi^2$/NDF: 8099.7/18

Left In: -10477.473+/-70.730 $\chi^2$/NDF:12547.8/5

Left: -6400.790+/-48.461 $\chi^2$/NDF: 24941.3/12

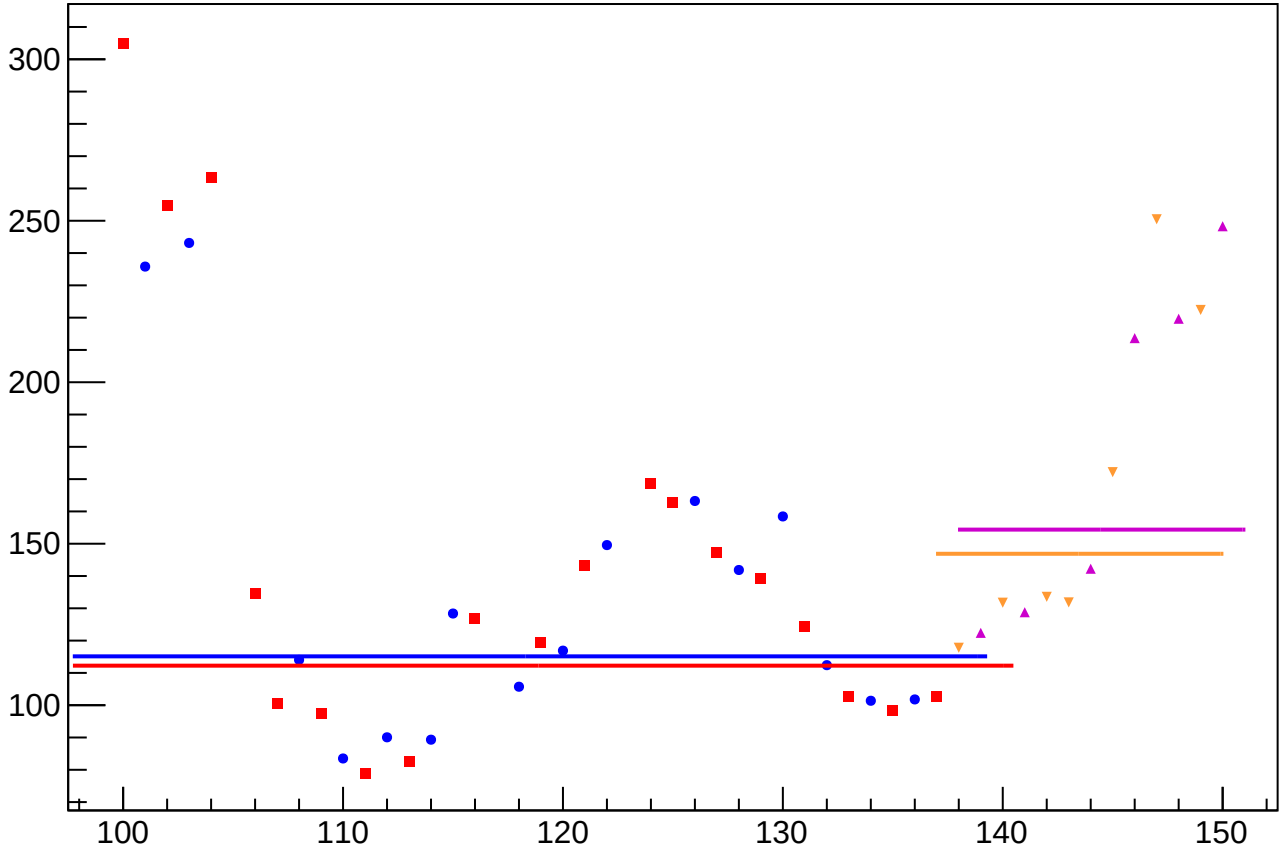
Right: -781.454+/-31.869 $\chi^2$/NDF: 42310.2/34

In: -2289.682+/-38.521 $\chi^2$/NDF:62353.7/21

Out: -2650.262+/-36.848 $\chi^2$/NDF:14238.5/25

All: -2477.969+/-26.627 $\chi^2$/NDF: 76637.9/47

# asym_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 115.125+/-0.032 $\chi^2$/NDF: 1112987.2/15

Left Out: 146.884+/-0.047 $\chi^2$/NDF:649059.6/6

Right Out: 112.241+/-0.031 $\chi^2$/NDF: 1328156.6/18

Left In: 154.369+/-0.050 $\chi^2$/NDF:723415.8/5

Left: 150.398+/-0.034 $\chi^2$/NDF: 1384358.1/12

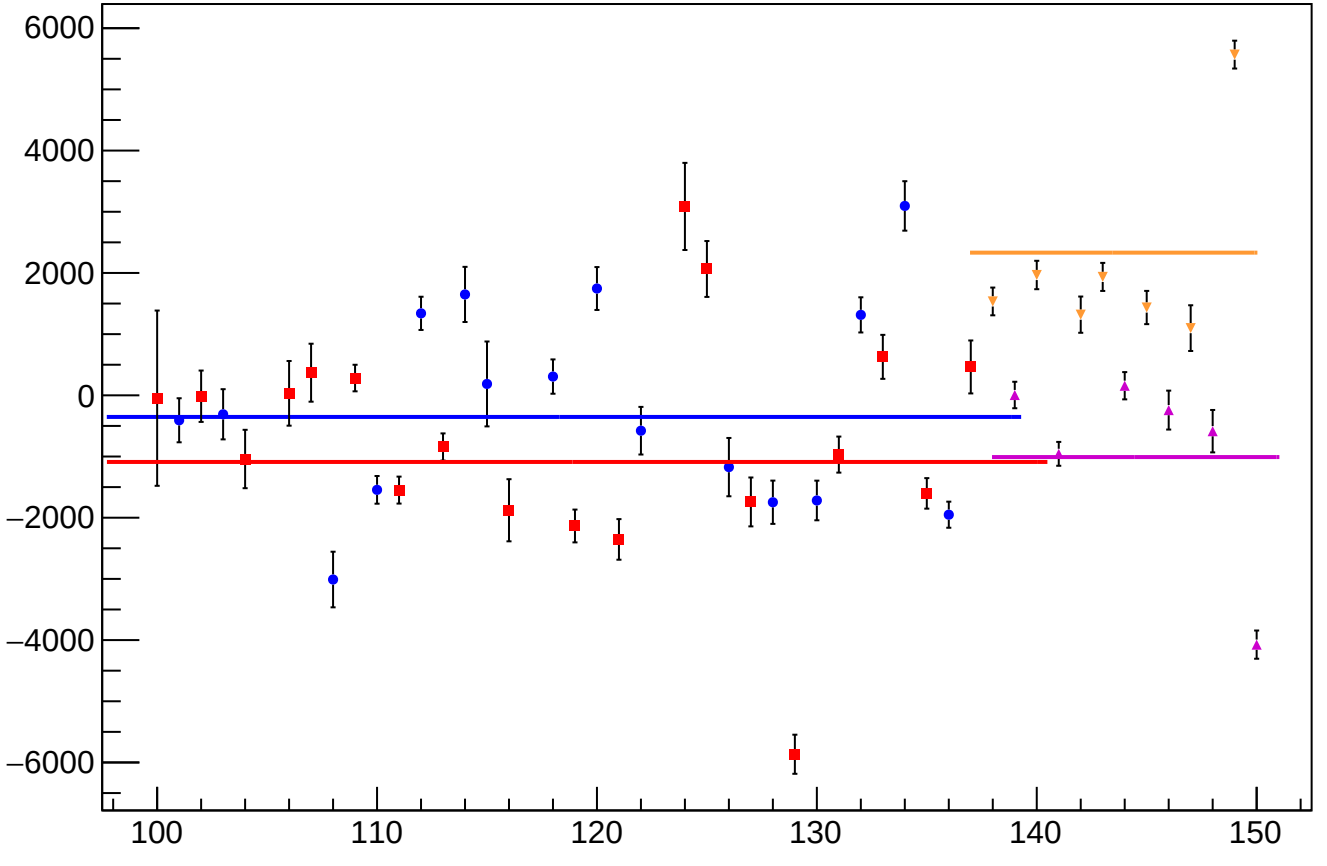
Right: 113.630+/-0.023 $\chi^2$/NDF: 2445233.6/34

In: 126.765+/-0.027 $\chi^2$/NDF:2269474.1/21

Out: 122.868+/-0.026 $\chi^2$/NDF:2353144.3/25

All: 124.730+/-0.019 $\chi^2$/NDF: 4633308.8/47

# asym_bpm0l01WS_mean vs Slug, Sign Corrected




Right In: -353.129+/-82.136 $\chi^2$/NDF: 361.8/15

Left Out: 2331.890+/-96.030 $\chi^2$/NDF:253.3/6

Right Out: -1088.752+/-76.444 $\chi^2$/NDF: 447.2/18

Left In: -1008.859+/-97.680 $\chi^2$/NDF:233.4/5

Left: 689.968+/-68.479 $\chi^2$/NDF: 1081.5/12

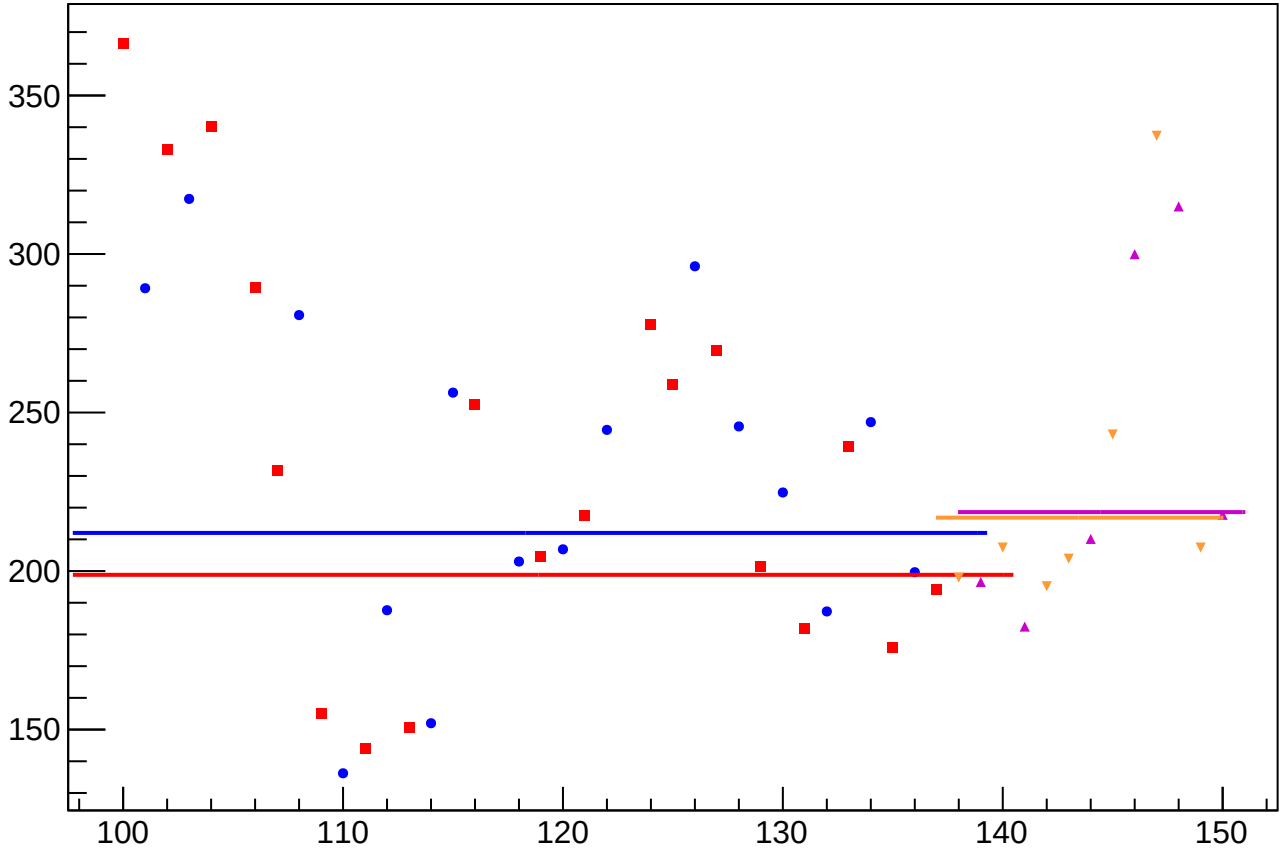
Right: -747.310+/-55.958 $\chi^2$/NDF: 852.0/34

In: -624.730+/-62.865 $\chi^2$/NDF:621.6/21

Out: 238.067+/-59.808 $\chi^2$/NDF:1477.1/25

All: -171.844+/-43.331 $\chi^2$/NDF: 2197.6/47

# asym_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 212.027+/-0.058 $\chi^2$/NDF: 690358.0/15

Left Out: 216.848+/-0.068 $\chi^2$/NDF:264286.4/6

Right Out: 198.809+/-0.054 $\chi^2$/NDF: 974928.4/18

Left In: 218.596+/-0.069 $\chi^2$/NDF:377794.1/5

Left: 217.707+/-0.048 $\chi^2$/NDF: 642406.2/12

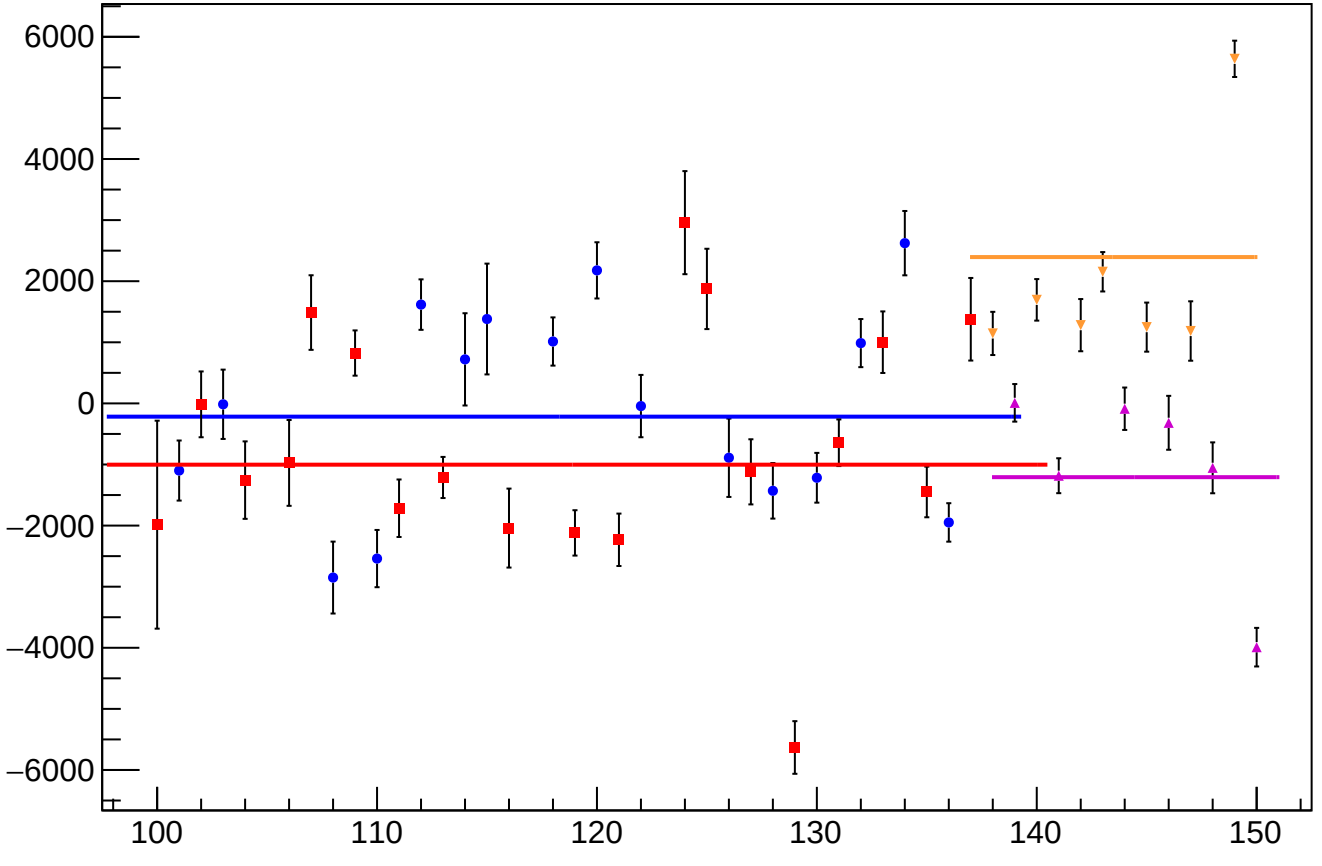
Right: 204.945+/-0.040 $\chi^2$/NDF: 1693041.6/34

In: 214.748+/-0.044 $\chi^2$/NDF:1073449.8/21

Out: 205.806+/-0.042 $\chi^2$/NDF:1282410.1/25

All: 210.054+/-0.031 $\chi^2$/NDF: 2377099.8/47

# asym_bpm0l02WS_mean vs Slug, Sign Corrected




Right In: -216.948+/-117.887 $\chi^2$/NDF: 192.2/15

Left Out: 2394.941+/-136.726 $\chi^2$/NDF:157.5/6

Right Out: -1003.049+/-113.111 $\chi^2$/NDF: 254.3/18

Left In: -1207.408+/-138.613 $\chi^2$/NDF:107.9/5

Left: 618.456+/-97.340 $\chi^2$/NDF: 607.8/12

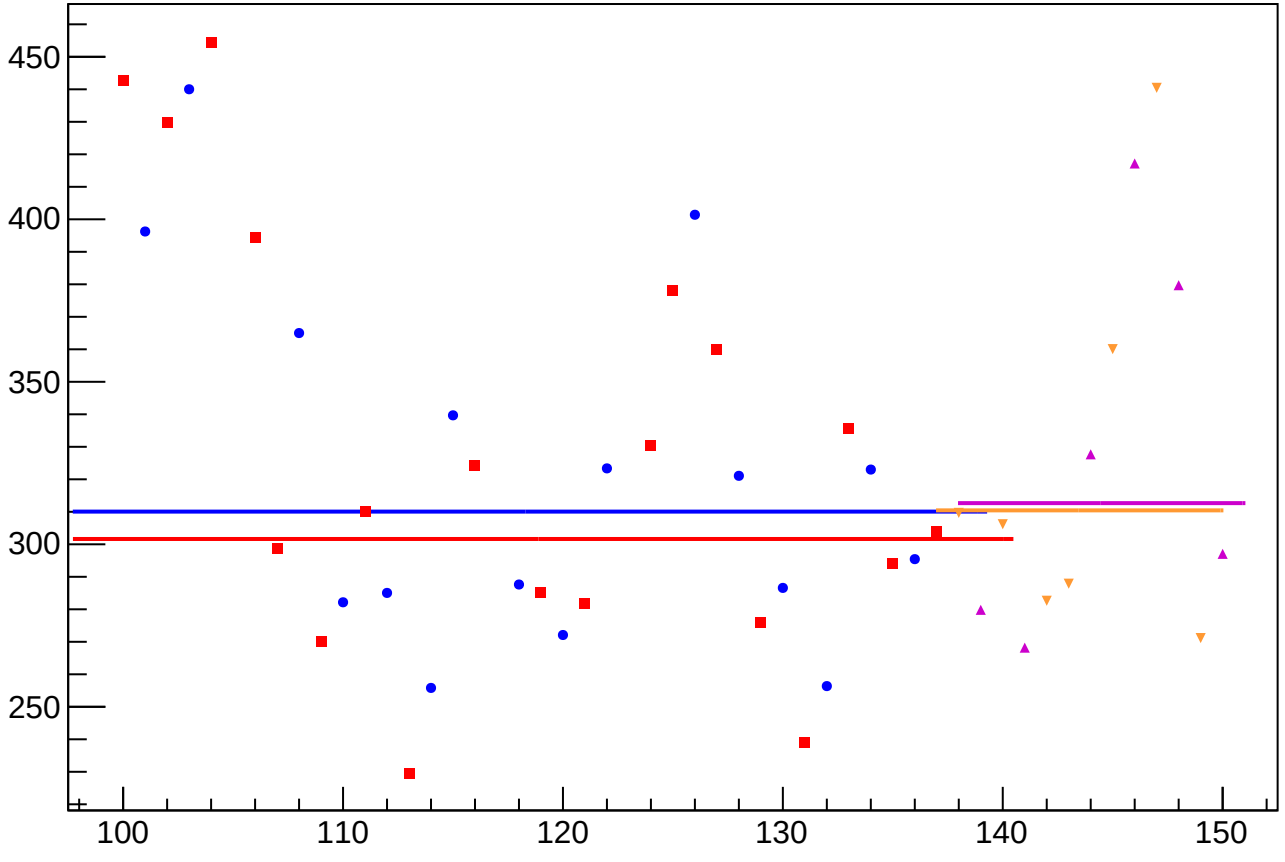
Right: -626.246+/-81.618 $\chi^2$/NDF: 469.7/34

In: -632.666+/-89.802 $\chi^2$/NDF:329.7/21

Out: 377.604+/-87.153 $\chi^2$/NDF:778.5/25

All: -112.411+/-62.542 $\chi^2$/NDF: 1173.4/47

# asym_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 310.062+/-0.083 $\chi^2$/NDF: 323283.5/15

Left Out: 310.441+/-0.097 $\chi^2$/NDF:226977.1/6

Right Out: 301.637+/-0.080 $\chi^2$/NDF: 519888.9/18

Left In: 312.670+/-0.098 $\chi^2$/NDF:243855.4/5

Left: 311.540+/-0.069 $\chi^2$/NDF: 471094.6/12

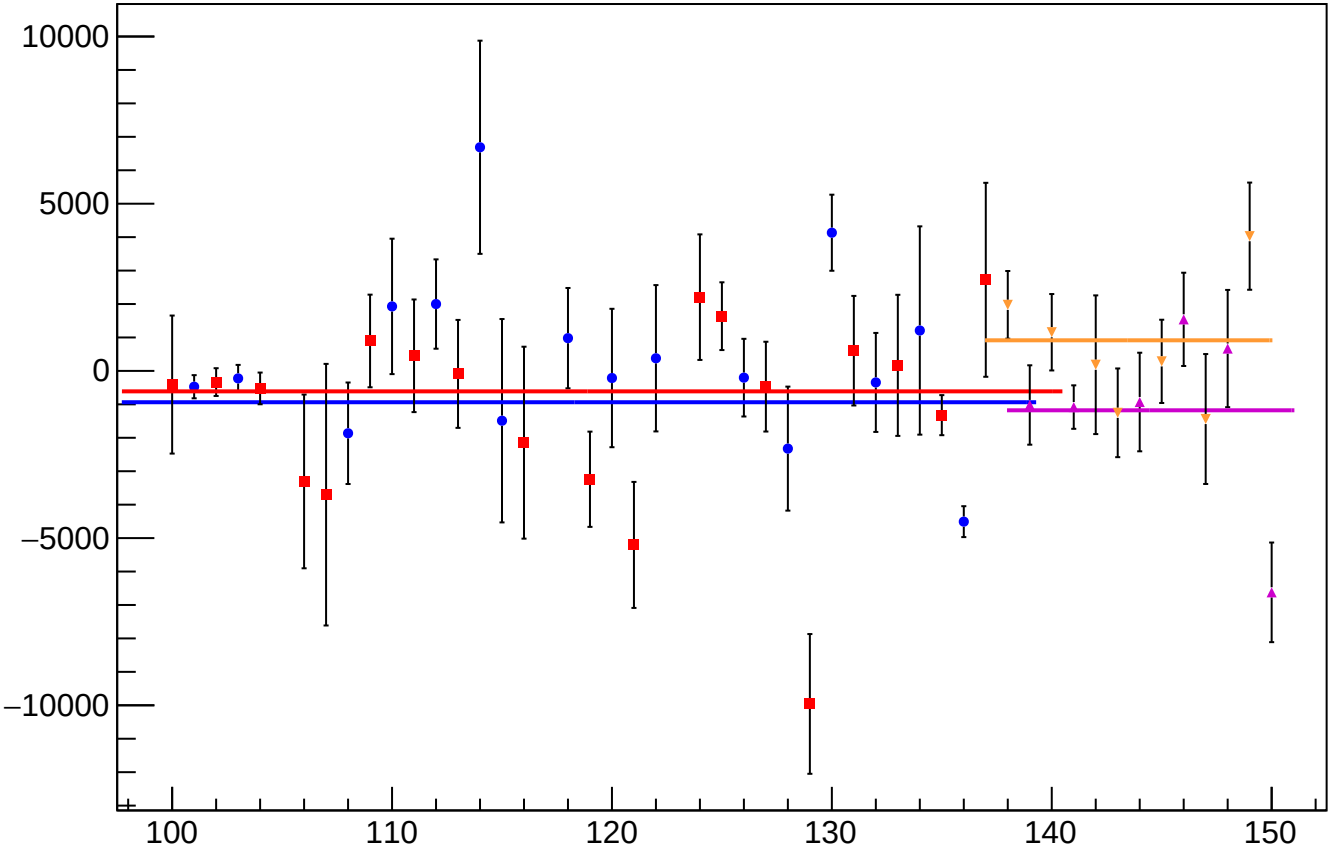
Right: 305.675+/-0.058 $\chi^2$/NDF: 848490.9/34

In: 311.157+/-0.063 $\chi^2$/NDF:567549.8/21

Out: 305.214+/-0.062 $\chi^2$/NDF:751789.5/25

All: 308.097+/-0.044 $\chi^2$/NDF: 1323849.1/47

# asym_bpm0l03WS_mean vs Slug, Sign Corrected




Right In: -936.949+/-204.717 $\chi^2$/NDF: 101.2/15

Left Out: 915.029+/-510.151 $\chi^2$/NDF:9.4/6

Right Out: -611.668+/-233.144 $\chi^2$/NDF: 44.1/18

Left In: -1178.056+/-455.176 $\chi^2$/NDF:18.3/5

Left: -250.330+/-339.637 $\chi^2$/NDF: 37.1/12

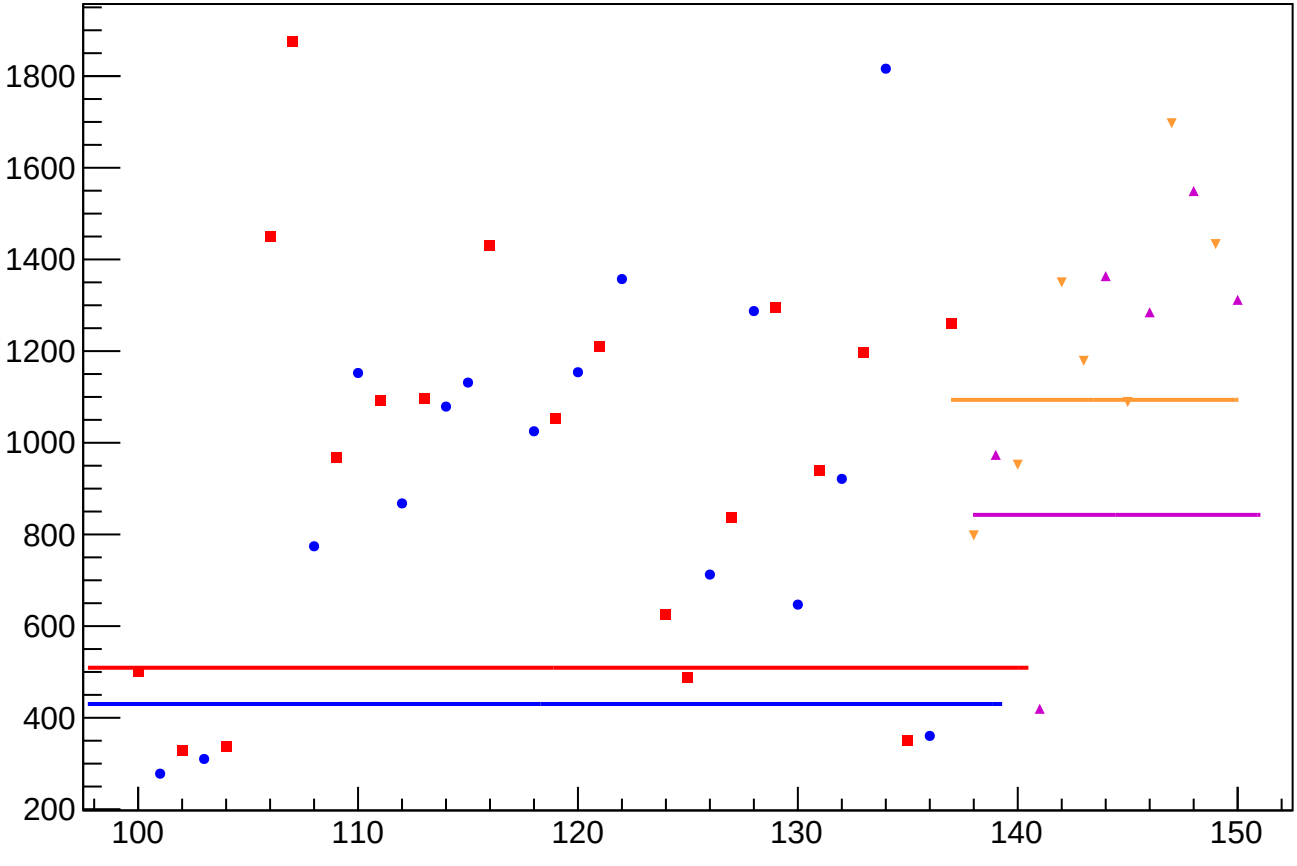
Right: -795.339+/-153.831 $\chi^2$/NDF: 146.4/34

In: -977.514+/-186.703 $\chi^2$/NDF:119.8/21

Out: -347.896+/-212.050 $\chi^2$/NDF:61.0/25

All: -702.566+/-140.128 $\chi^2$/NDF: 185.7/47

# asym_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 430.110+/-0.145 $\chi^2$/NDF: 3521861.8/15

Left Out: 1093.683+/-0.361 $\chi^2$/NDF:522887.6/6

Right Out: 509.236+/-0.165 $\chi^2$/NDF: 3673425.8/18

Left In: 842.736+/-0.322 $\chi^2$/NDF:1845160.8/5

Left: 953.964+/-0.240 $\chi^2$/NDF: 2637492.1/12

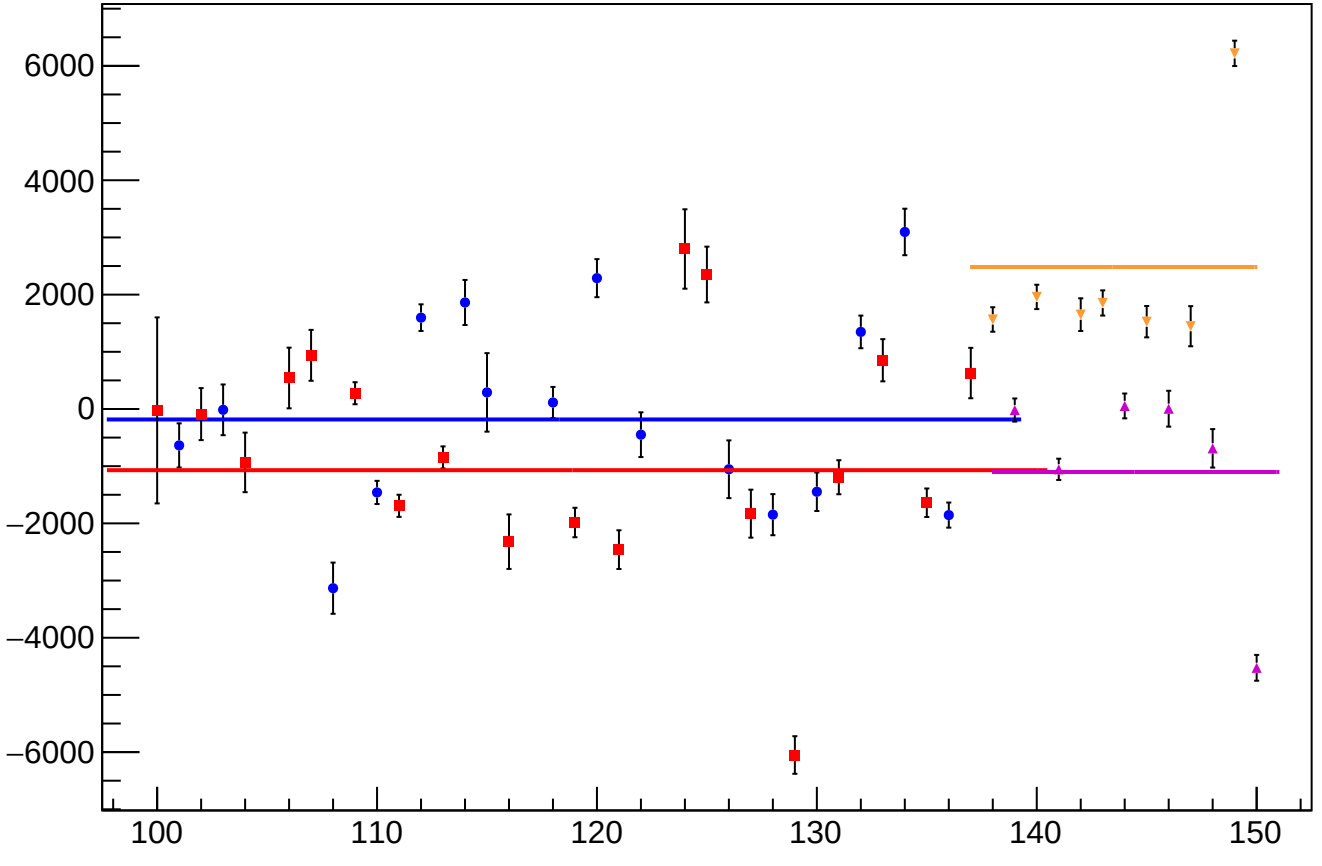
Right: 464.557+/-0.109 $\chi^2$/NDF: 7325362.7/34

In: 499.533+/-0.132 $\chi^2$/NDF:6734059.2/21

Out: 610.213+/-0.150 $\chi^2$/NDF:6367749.6/25

All: 547.866+/-0.099 $\chi^2$/NDF: 13408739.0/47

# asym_bpm0l04WS_mean vs Slug, Sign Corrected




Right In: -183.020+/-79.863 $\chi^2$/NDF: 417.7/15

Left Out: 2482.878+/-91.880 $\chi^2$/NDF:345.2/6

Right Out: -1069.729+/-73.060 $\chi^2$/NDF: 492.3/18

Left In: -1101.521+/-93.967 $\chi^2$/NDF:301.4/5

Left: 730.923+/-65.694 $\chi^2$/NDF: 1390.5/12

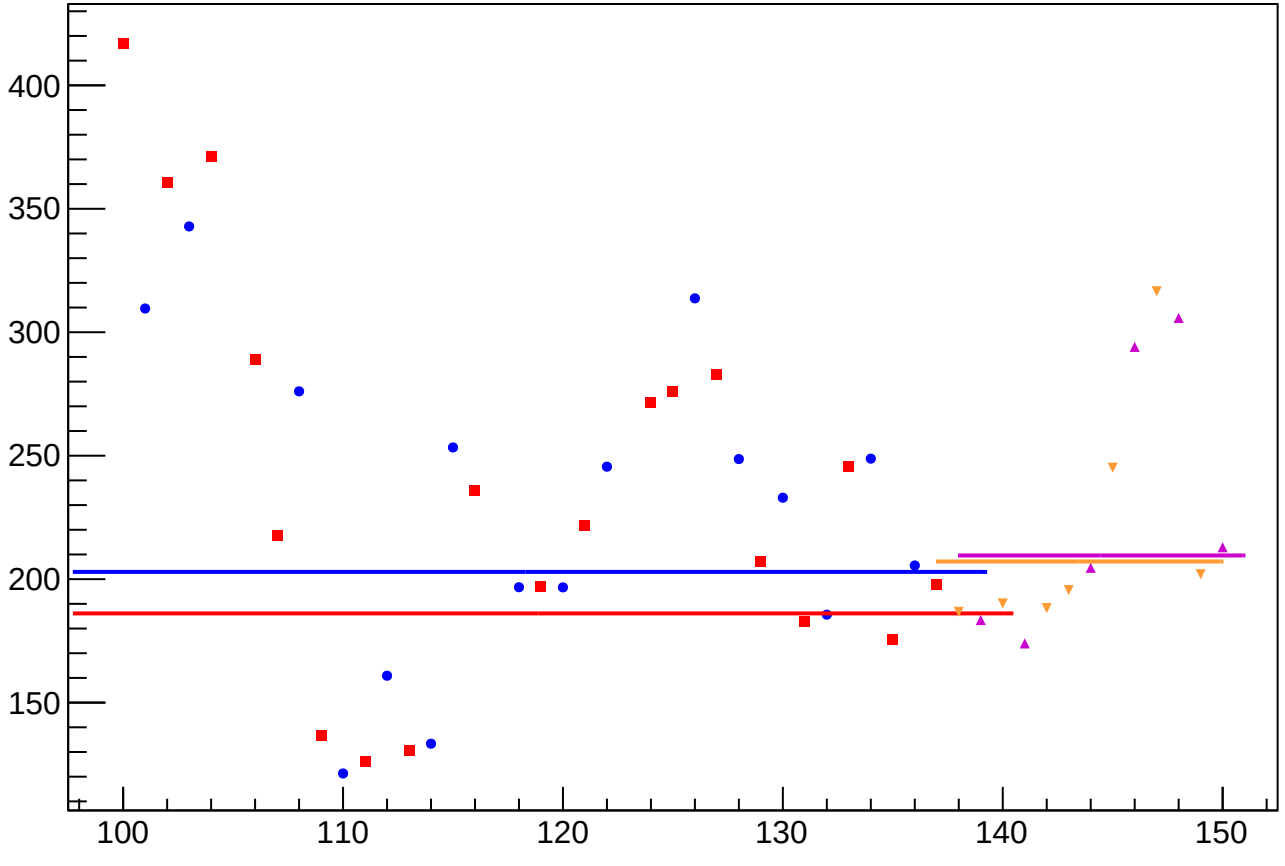
Right: -665.741+/-53.906 $\chi^2$/NDF: 977.1/34

In: -568.236+/-60.854 $\chi^2$/NDF:774.6/21

Out: 306.439+/-57.185 $\chi^2$/NDF:1753.4/25

All: -103.740+/-41.673 $\chi^2$/NDF: 2637.7/47

# asym_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 202.941+/-0.056 $\chi^2$/NDF: 1071859.2/15

Left Out: 207.152+/-0.065 $\chi^2$/NDF:279250.1/6

Right Out: 186.129+/-0.052 $\chi^2$/NDF: 1481664.4/18

Left In: 209.599+/-0.066 $\chi^2$/NDF:417200.8/5

Left: 208.348+/-0.046 $\chi^2$/NDF: 697144.6/12

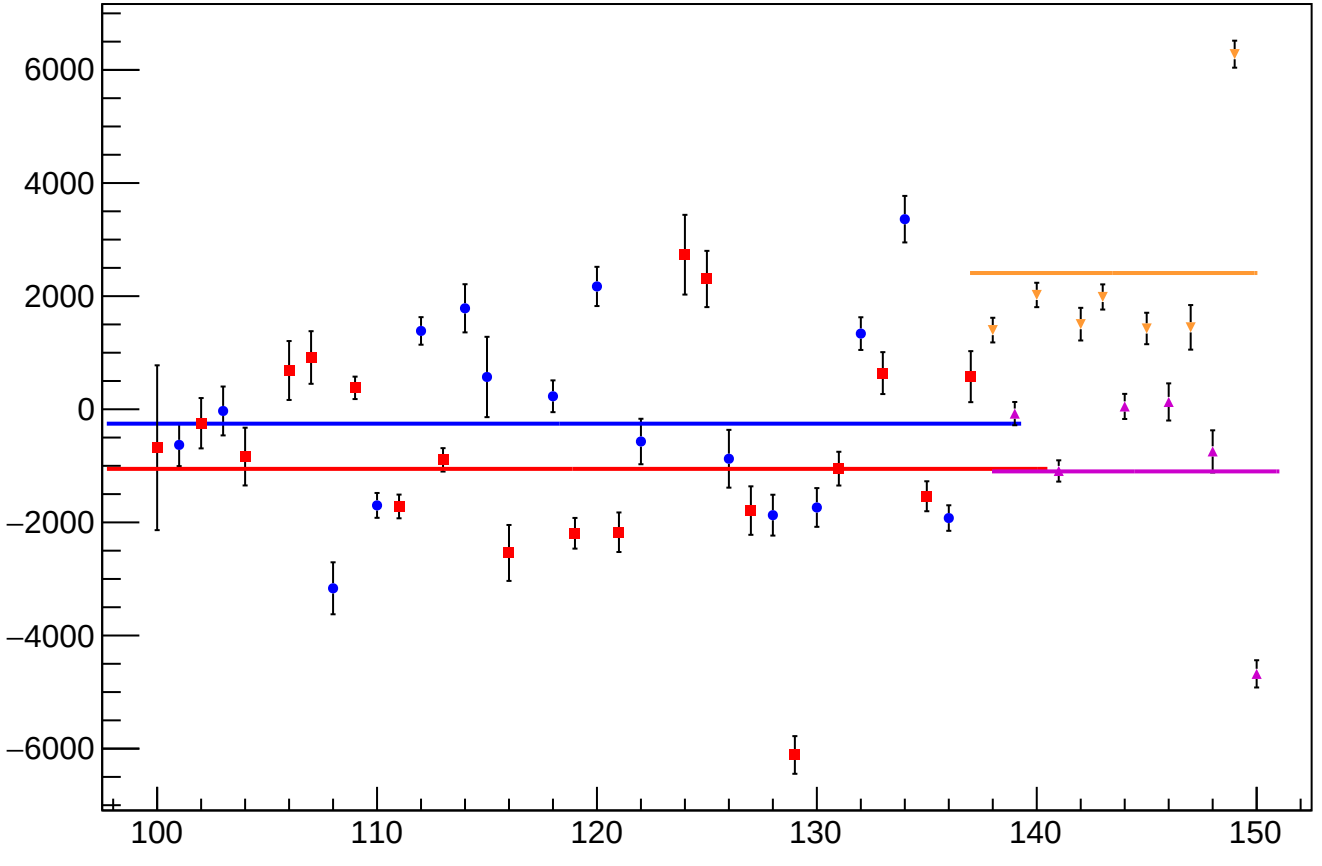
Right: 193.789+/-0.038 $\chi^2$/NDF: 2601774.8/34

In: 205.734+/-0.043 $\chi^2$/NDF:1494889.5/21

Out: 194.272+/-0.040 $\chi^2$/NDF:1825059.3/25

All: 199.647+/-0.029 $\chi^2$/NDF: 3357623.5/47

# asym_bpm0l05WS_mean vs Slug, Sign Corrected




Right In: -254.470+/-82.490 $\chi^2$/NDF: 409.3/15

Left Out: 2409.183+/-94.650 $\chi^2$/NDF:319.0/6

Right Out: -1053.731+/-75.969 $\chi^2$/NDF: 477.7/18

Left In: -1098.519+/-97.174 $\chi^2$/NDF:287.1/5

Left: 701.477+/-67.803 $\chi^2$/NDF: 1274.7/12

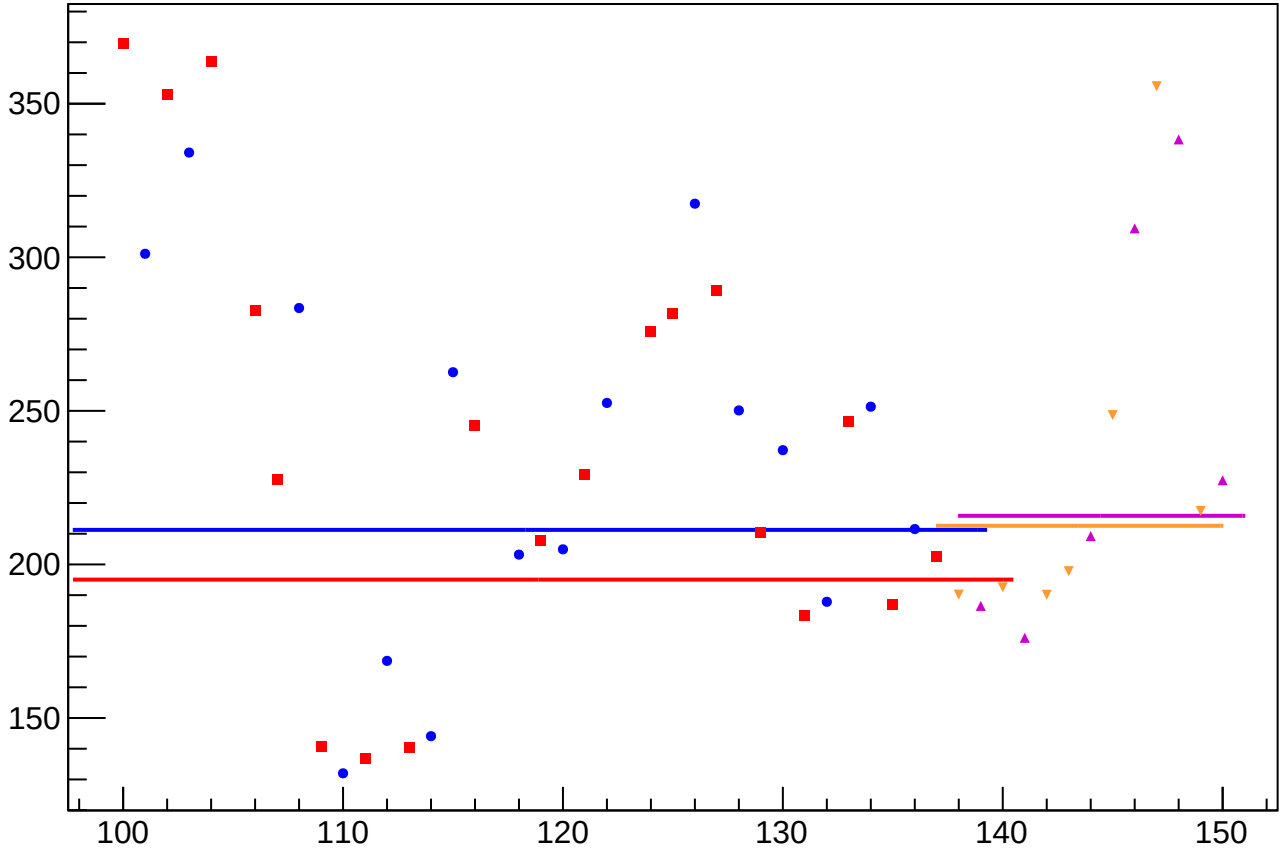
Right: -686.933+/-55.882 $\chi^2$/NDF: 937.7/34

In: -607.965+/-62.887 $\chi^2$/NDF:740.2/21

Out: 303.066+/-59.246 $\chi^2$/NDF:1610.7/25

All: -125.315+/-43.123 $\chi^2$/NDF: 2462.1/47

# asym_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 211.254+/-0.058 $\chi^2$/NDF: 884363.6/15

Left Out: 212.587+/-0.067 $\chi^2$/NDF:357296.3/6

Right Out: 195.061+/-0.054 $\chi^2$/NDF: 1284879.9/18

Left In: 215.838+/-0.069 $\chi^2$/NDF:514835.0/5

Left: 214.170+/-0.048 $\chi^2$/NDF: 873280.4/12

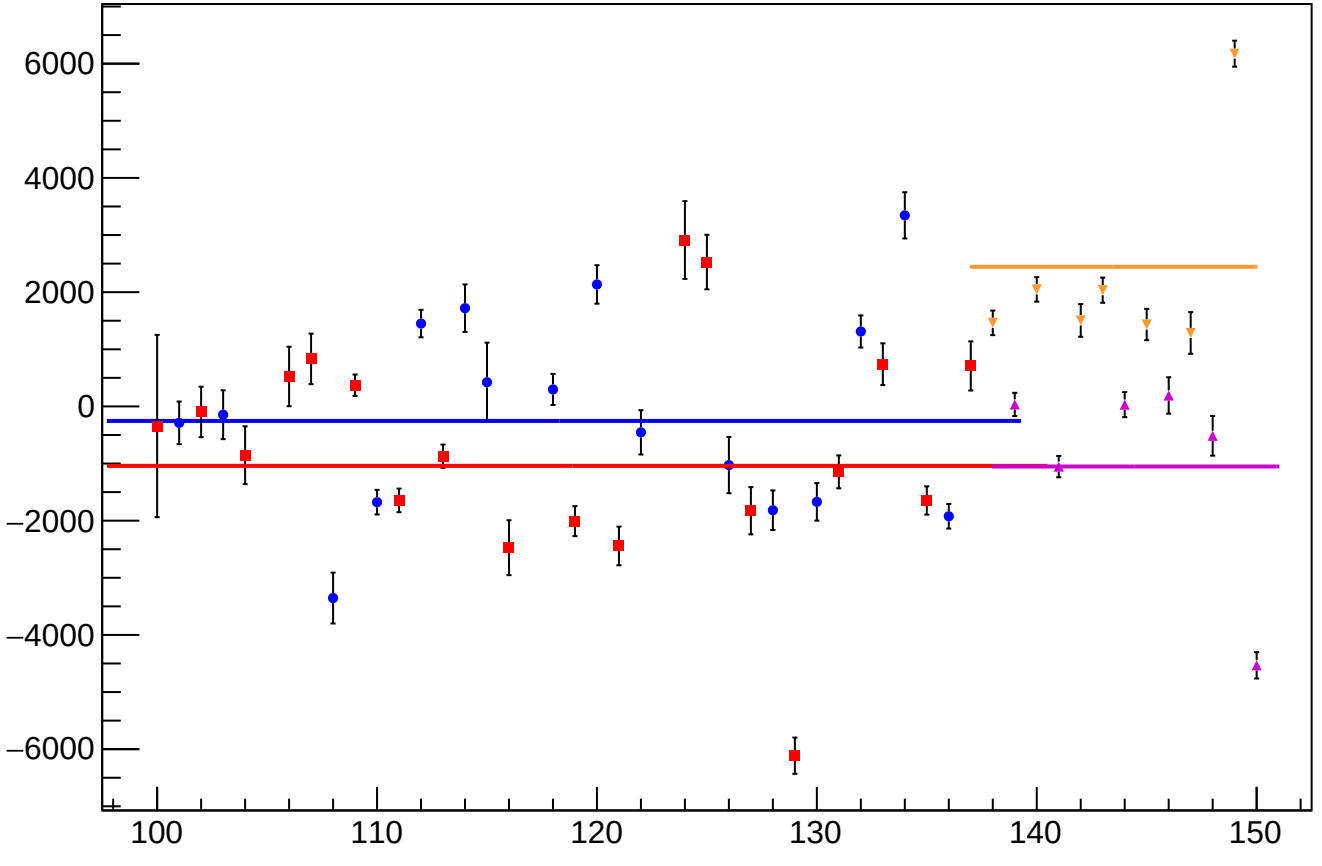
Right: 202.492+/-0.040 $\chi^2$/NDF: 2210941.3/34

In: 213.174+/-0.044 $\chi^2$/NDF:1401786.2/21

Out: 201.928+/-0.042 $\chi^2$/NDF:1683880.5/25

All: 207.216+/-0.030 $\chi^2$/NDF: 3119550.6/47

# asym_bpm0l06WS_mean vs Slug, Sign Corrected




Right In: -254.044+/-80.222 $\chi^2$/NDF: 432.1/15

Left Out: 2443.795+/-92.724 $\chi^2$/NDF:330.1/6

Right Out: -1040.361+/-73.363 $\chi^2$/NDF: 533.4/18

Left In: -1051.971+/-95.042 $\chi^2$/NDF:298.4/5

Left: 739.058+/-66.370 $\chi^2$/NDF: 1321.7/12

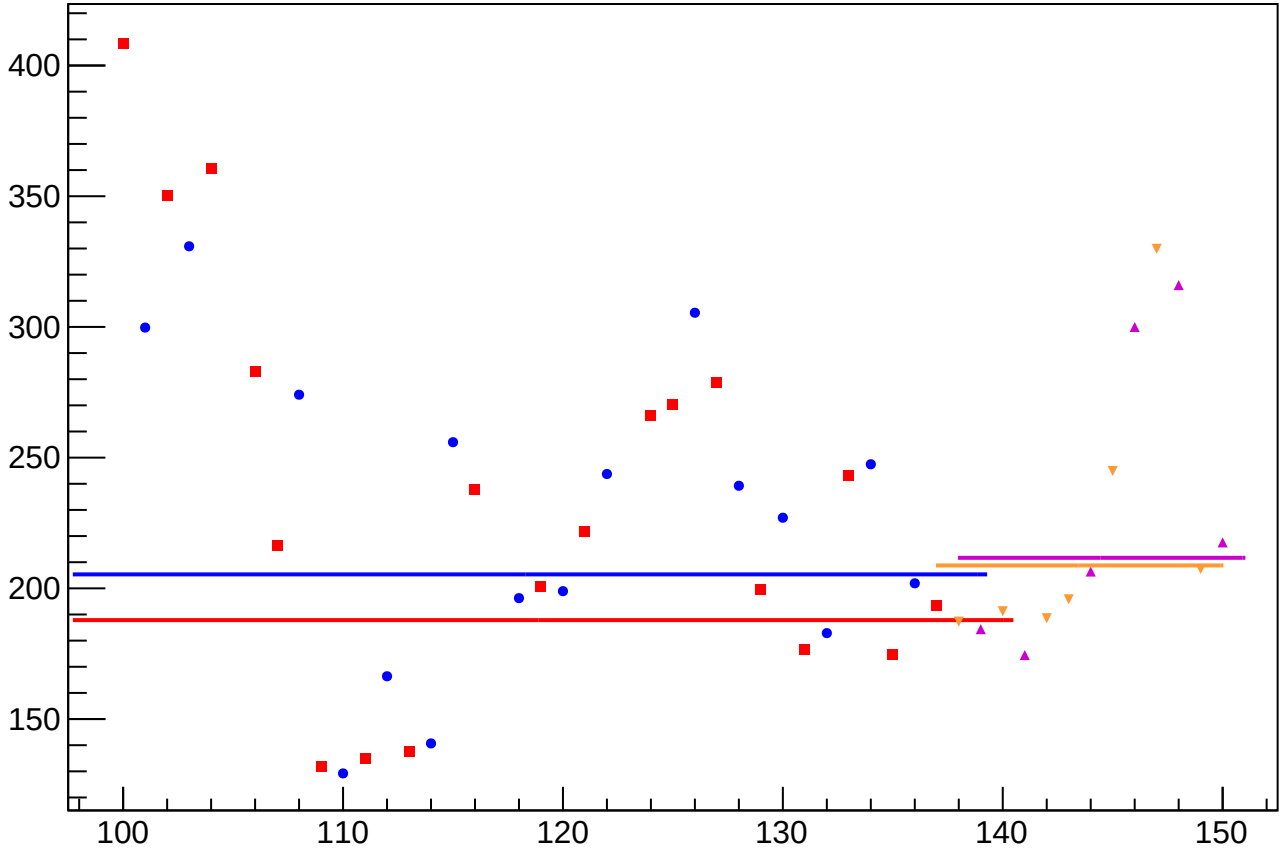
Right: -682.251+/-54.138 $\chi^2$/NDF: 1017.8/34

In: -586.019+/-61.303 $\chi^2$/NDF:771.7/21

Out: 301.013+/-57.533 $\chi^2$/NDF:1731.9/25

All: -114.388+/-41.952 $\chi^2$/NDF: 2614.8/47

# asym_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 205.341+/-0.057 $\chi^2$/NDF: 877398.6/15

Left Out: 208.762+/-0.066 $\chi^2$/NDF:304637.7/6

Right Out: 187.848+/-0.052 $\chi^2$/NDF: 1337049.4/18

Left In: 211.685+/-0.067 $\chi^2$/NDF:451114.8/5

Left: 210.188+/-0.047 $\chi^2$/NDF: 756721.8/12

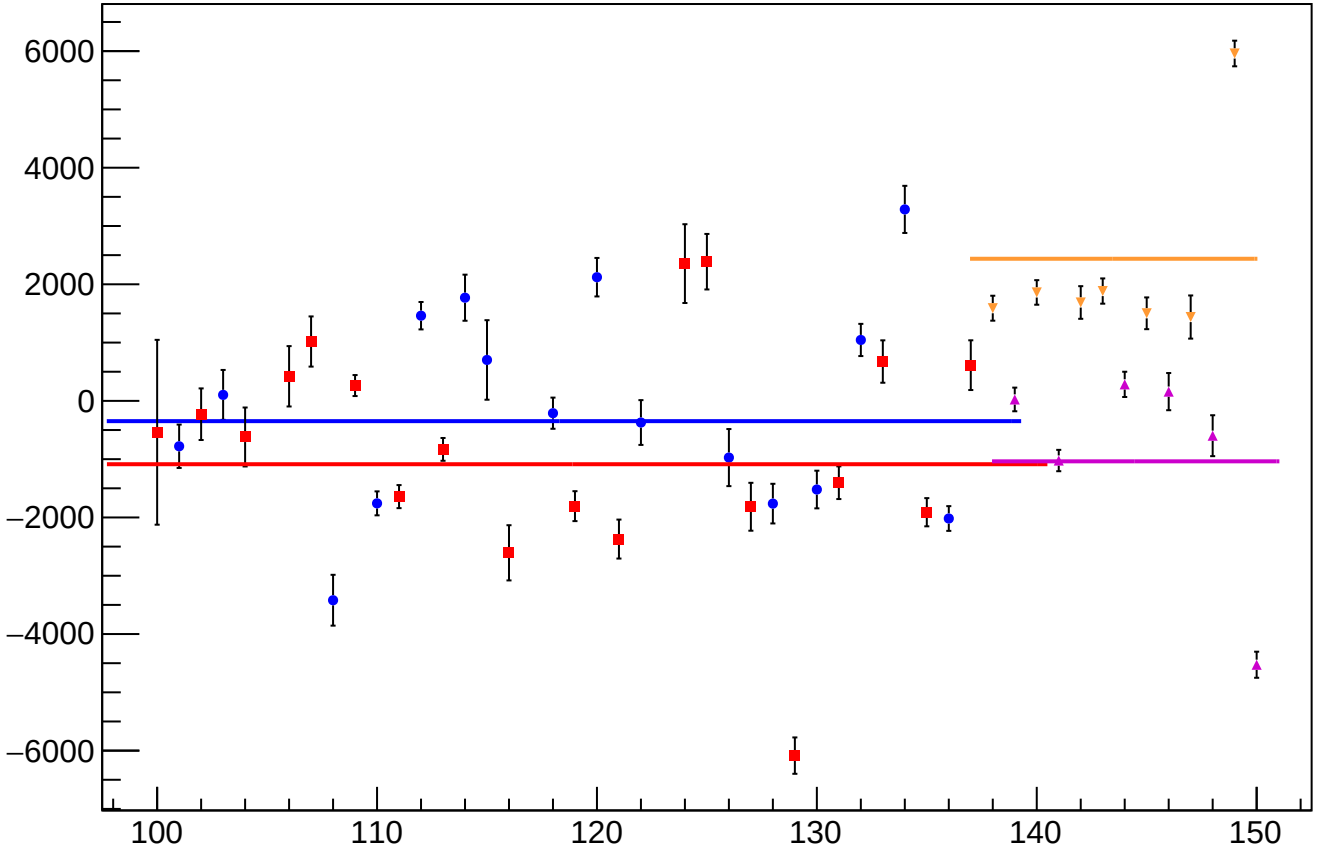
Right: 195.815+/-0.038 $\chi^2$/NDF: 2266235.0/34

In: 207.981+/-0.043 $\chi^2$/NDF:1333717.4/21

Out: 195.900+/-0.041 $\chi^2$/NDF:1704262.4/25

All: 201.557+/-0.030 $\chi^2$/NDF: 3079275.8/47

# asym_bpm0l07WS_mean vs Slug, Sign Corrected




Right In: -347.666+/-78.567 $\chi^2$/NDF: 445.8/15

Left Out: 2437.996+/-91.340 $\chi^2$/NDF:312.4/6

Right Out: -1086.638+/-71.539 $\chi^2$/NDF: 527.2/18

Left In: -1037.141+/-93.943 $\chi^2$/NDF:323.3/5

Left: 749.240+/-65.488 $\chi^2$/NDF: 1339.1/12

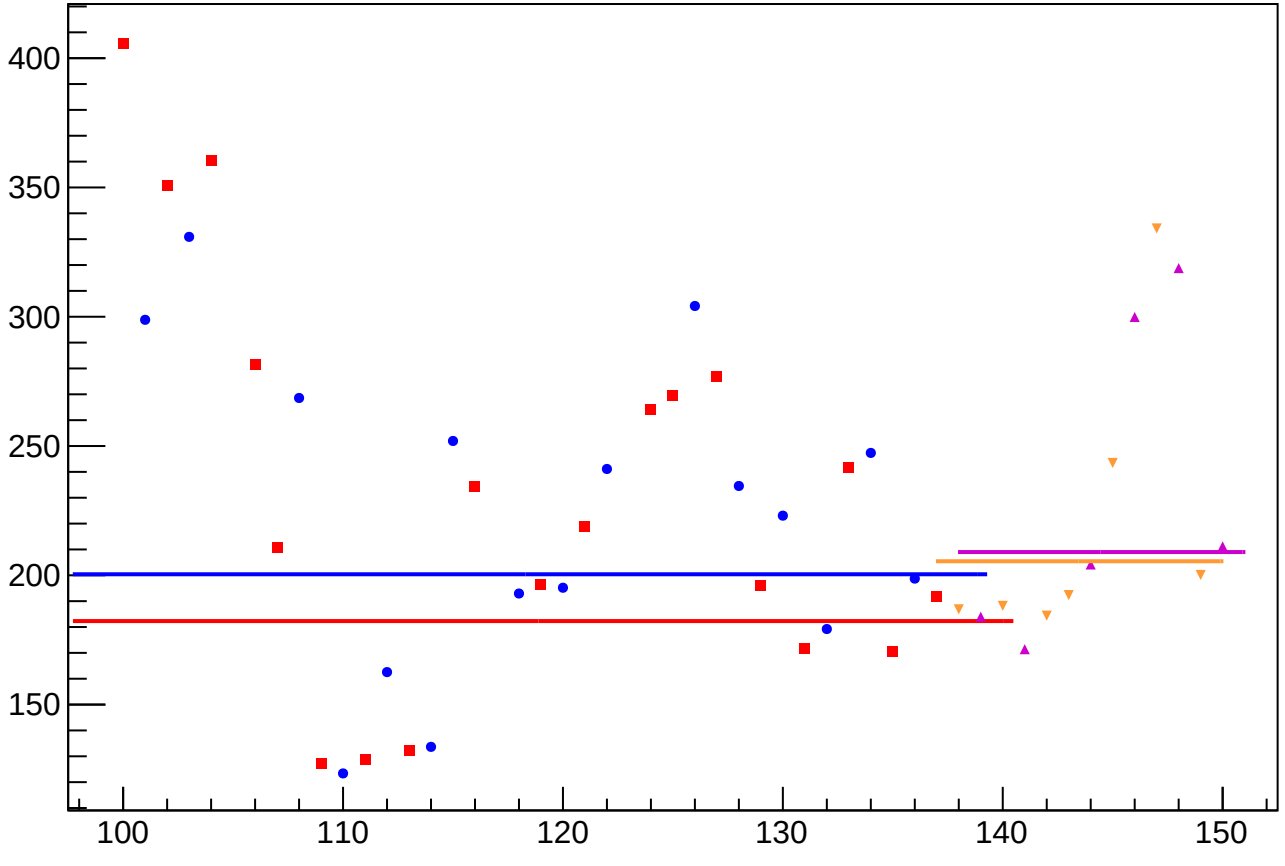
Right: -751.676+/-52.896 $\chi^2$/NDF: 1021.4/34

In: -631.436+/-60.268 $\chi^2$/NDF:800.8/21

Out: 253.440+/-56.321 $\chi^2$/NDF:1762.5/25

All: -159.072+/-41.149 $\chi^2$/NDF: 2678.4/47

# asym_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 200.399+/-0.056 $\chi^2$/NDF: 959000.8/15

Left Out: 205.436+/-0.065 $\chi^2$/NDF:328947.8/6

Right Out: 182.302+/-0.051 $\chi^2$/NDF: 1447197.0/18

Left In: 208.992+/-0.066 $\chi^2$/NDF:473891.8/5

Left: 207.164+/-0.046 $\chi^2$/NDF: 804312.5/12

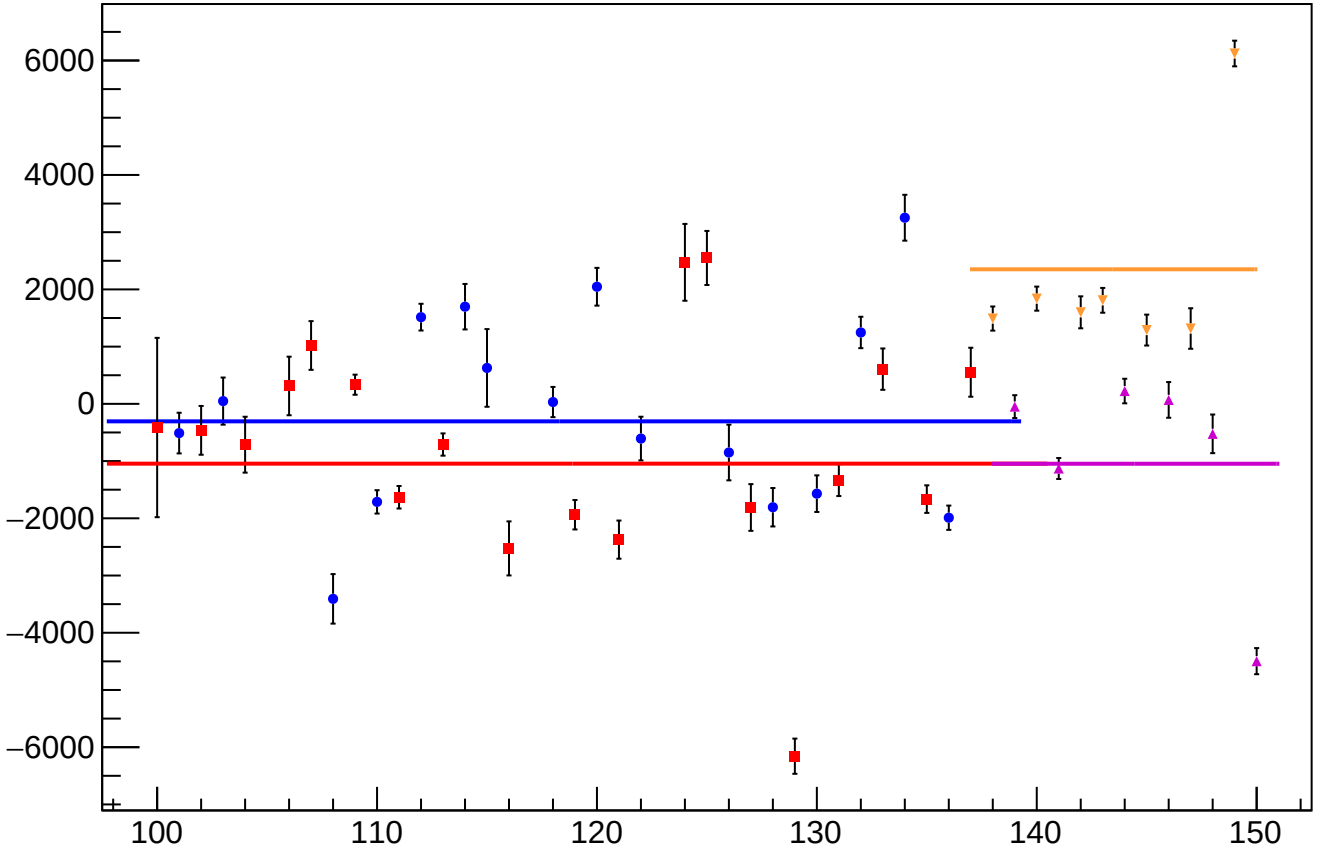
Right: 190.505+/-0.037 $\chi^2$/NDF: 2464212.0/34

In: 203.936+/-0.043 $\chi^2$/NDF:1442740.1/21

Out: 191.098+/-0.040 $\chi^2$/NDF:1855668.1/25

All: 197.082+/-0.029 $\chi^2$/NDF: 3346853.4/47

# asym_bpm0l08WS_mean vs Slug, Sign Corrected




Right In: -305.649+/-77.868 $\chi^2$/NDF: 451.8/15

Left Out: 2351.337+/-90.984 $\chi^2$/NDF:342.8/6

Right Out: -1045.144+/-70.824 $\chi^2$/NDF: 552.2/18

Left In: -1046.716+/-93.285 $\chi^2$/NDF:304.1/5

Left: 694.735+/-65.134 $\chi^2$/NDF: 1326.9/12

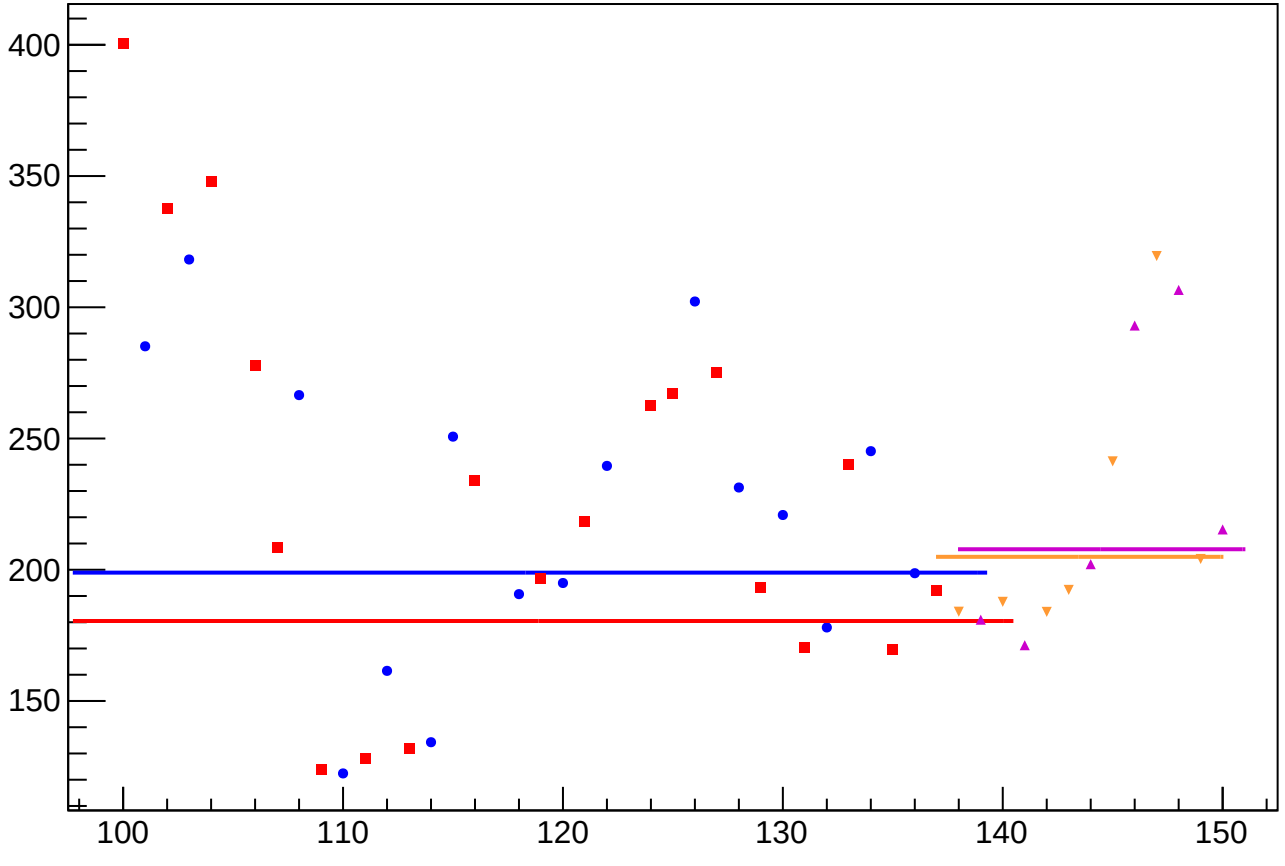
Right: -710.354+/-52.394 $\chi^2$/NDF: 1053.3/34

In: -609.967+/-59.779 $\chi^2$/NDF:793.1/21

Out: 236.377+/-55.887 $\chi^2$/NDF:1762.7/25

All: -158.353+/-40.825 $\chi^2$/NDF: 2662.8/47

# asym_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 198.903+/-0.055 $\chi^2$/NDF: 912765.0/15

Left Out: 204.923+/-0.064 $\chi^2$/NDF:296724.1/6

Right Out: 180.473+/-0.050 $\chi^2$/NDF: 1434435.8/18

Left In: 207.811+/-0.066 $\chi^2$/NDF:440082.5/5

Left: 206.331+/-0.046 $\chi^2$/NDF: 737788.8/12

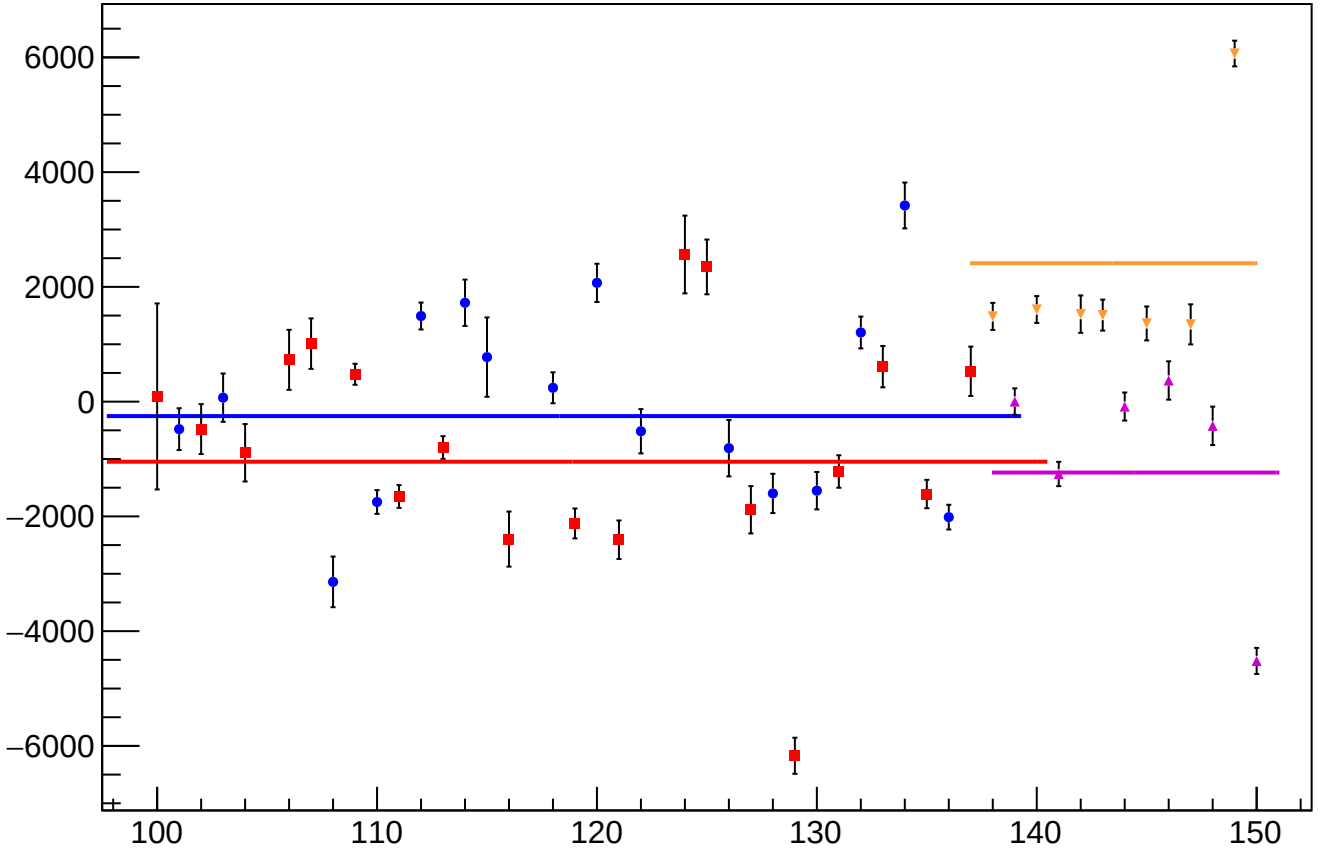
Right: 188.816+/-0.037 $\chi^2$/NDF: 2408514.3/34

In: 202.561+/-0.042 $\chi^2$/NDF:1363596.9/21

Out: 189.698+/-0.040 $\chi^2$/NDF:1821099.7/25

All: 195.697+/-0.029 $\chi^2$/NDF: 3234107.0/47

# asym_bpm0l09WS_mean vs Slug, Sign Corrected




Right In: -251.795+/-78.974 $\chi^2$/NDF: 441.2/15

Left Out: 2412.625+/-100.525 $\chi^2$/NDF:334.4/6

Right Out: -1047.132+/-72.190 $\chi^2$/NDF: 546.7/18

Left In: -1235.719+/-102.493 $\chi^2$/NDF:289.2/5

Left: 623.803+/-71.768 $\chi^2$/NDF: 1269.4/12

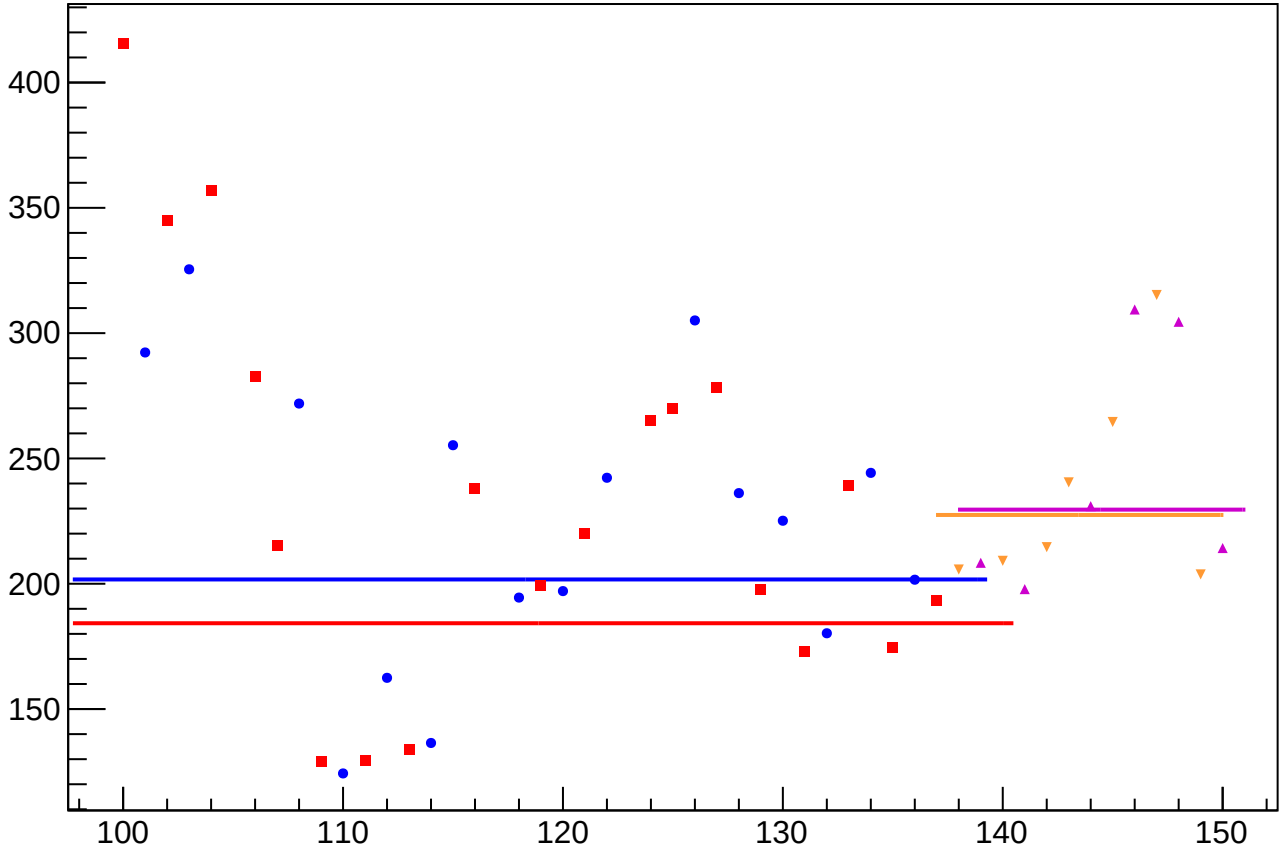
Right: -685.086+/-53.283 $\chi^2$/NDF: 1043.2/34

In: -618.345+/-62.557 $\chi^2$/NDF:788.2/21

Out: 130.023+/-58.637 $\chi^2$/NDF:1662.6/25

All: -219.976+/-42.781 $\chi^2$/NDF: 2527.0/47

# asym_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 201.714+/-0.056 $\chi^2$/NDF: 924210.1/15

Left Out: 227.450+/-0.071 $\chi^2$/NDF:217163.5/6

Right Out: 184.244+/-0.051 $\chi^2$/NDF: 1403761.8/18

Left In: 229.577+/-0.072 $\chi^2$/NDF:285530.0/5

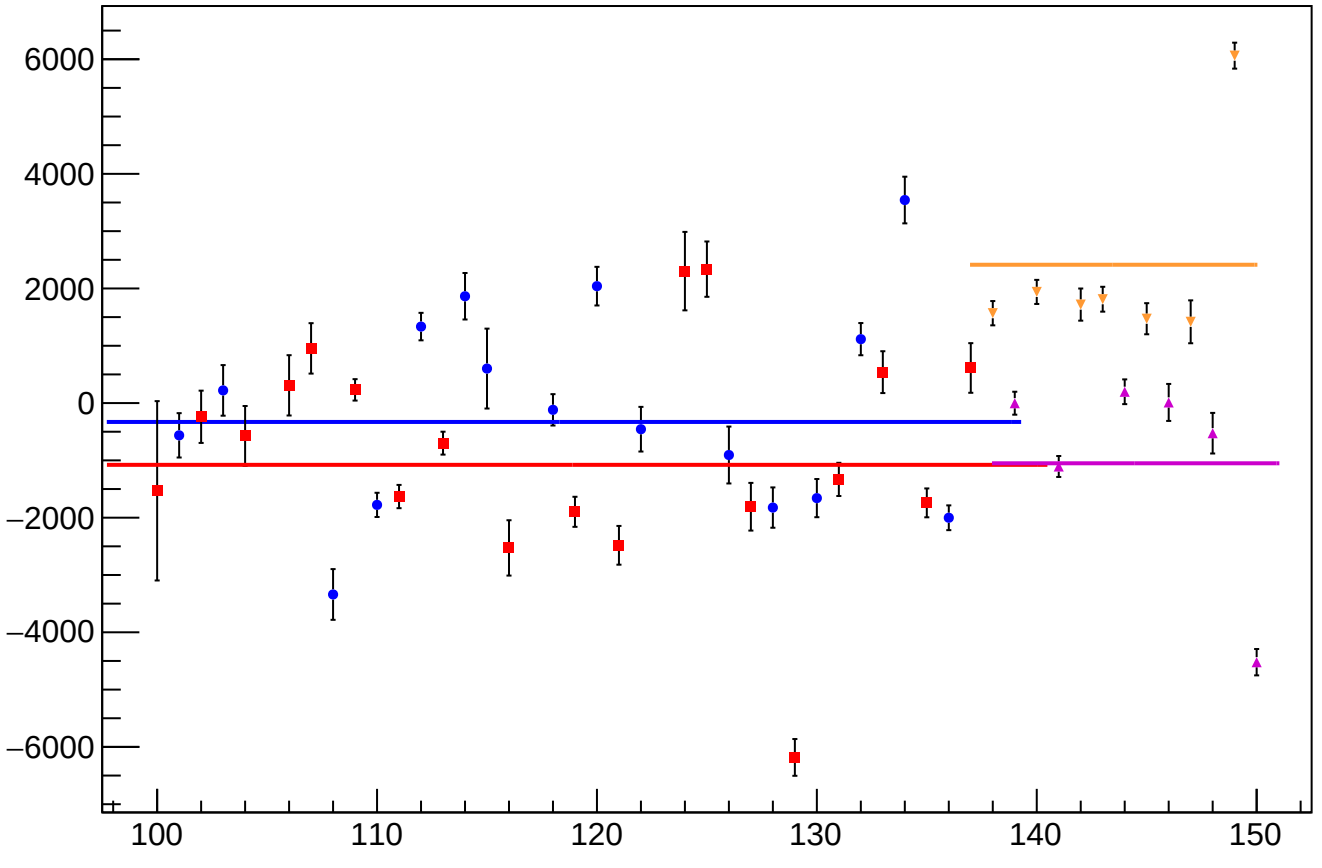
Left: 228.493+/-0.051 $\chi^2$/NDF: 503132.7/12

Right: 192.196+/-0.038 $\chi^2$/NDF: 2381288.1/34

In: 212.094+/-0.044 $\chi^2$/NDF:1302489.5/21

Out: 198.944+/-0.041 $\chi^2$/NDF:1864678.6/25

All: 205.094+/-0.030 $\chi^2$/NDF: 3214207.9/47




Right In: -329.377+/-80.367 $\chi^2$/NDF: 436.4/15

Left Out: 2413.843+/-91.664 $\chi^2$/NDF:313.2/6

Right Out: -1077.876+/-73.404 $\chi^2$/NDF: 502.0/18

Left In: -1050.687+/-94.176 $\chi^2$/NDF:301.6/5

Left: 728.392+/-65.686 $\chi^2$/NDF: 1309.8/12

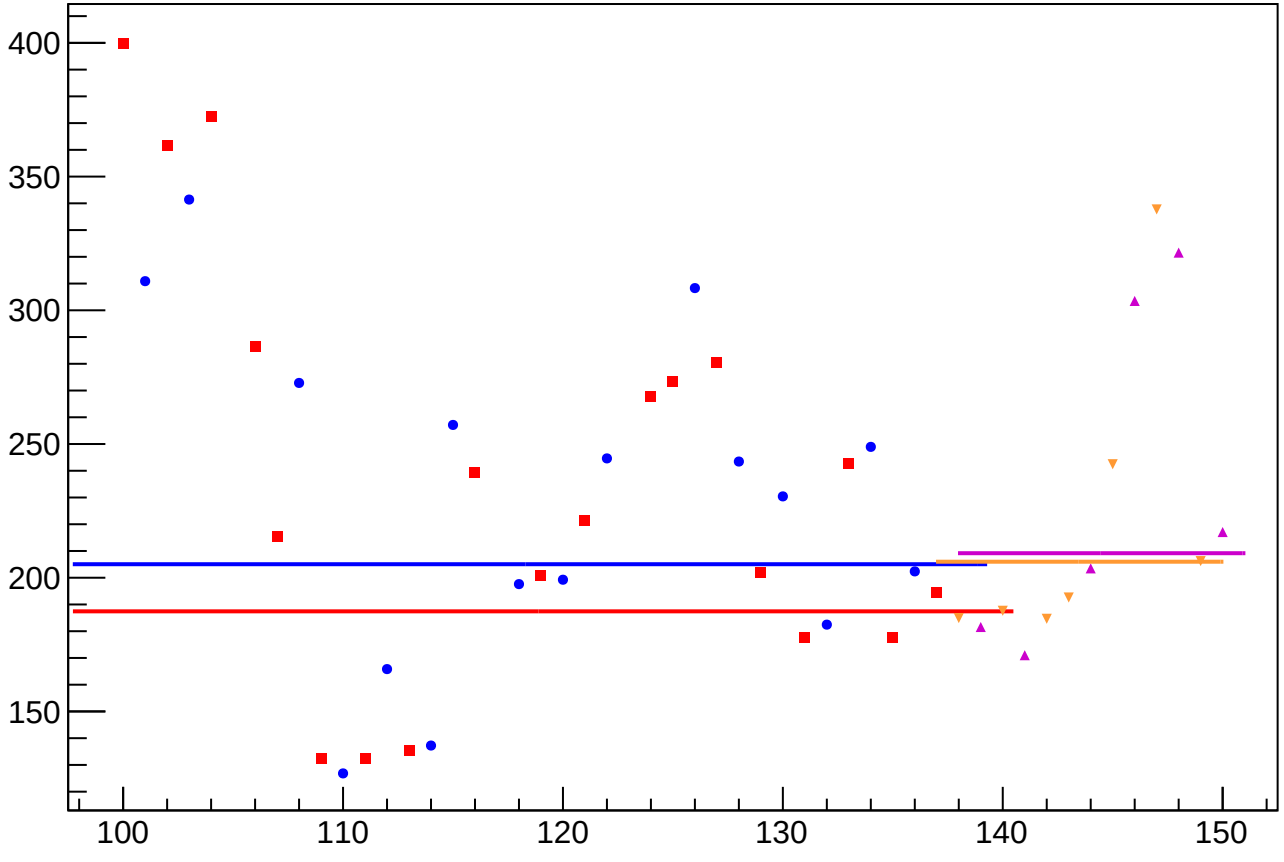
Right: -737.449+/-54.199 $\chi^2$/NDF: 985.7/34

In: -633.322+/-61.133 $\chi^2$/NDF:772.0/21

Out: 286.404+/-57.297 $\chi^2$/NDF:1699.3/25

All: -143.700+/-41.805 $\chi^2$/NDF: 2591.7/47

# asym_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 205.053+/-0.057 $\chi^2$/NDF: 963052.0/15

Left Out: 205.989+/-0.065 $\chi^2$/NDF:337988.7/6

Right Out: 187.431+/-0.052 $\chi^2$/NDF: 1410802.2/18

Left In: 209.170+/-0.067 $\chi^2$/NDF:500815.0/5

Left: 207.537+/-0.046 $\chi^2$/NDF: 839975.2/12

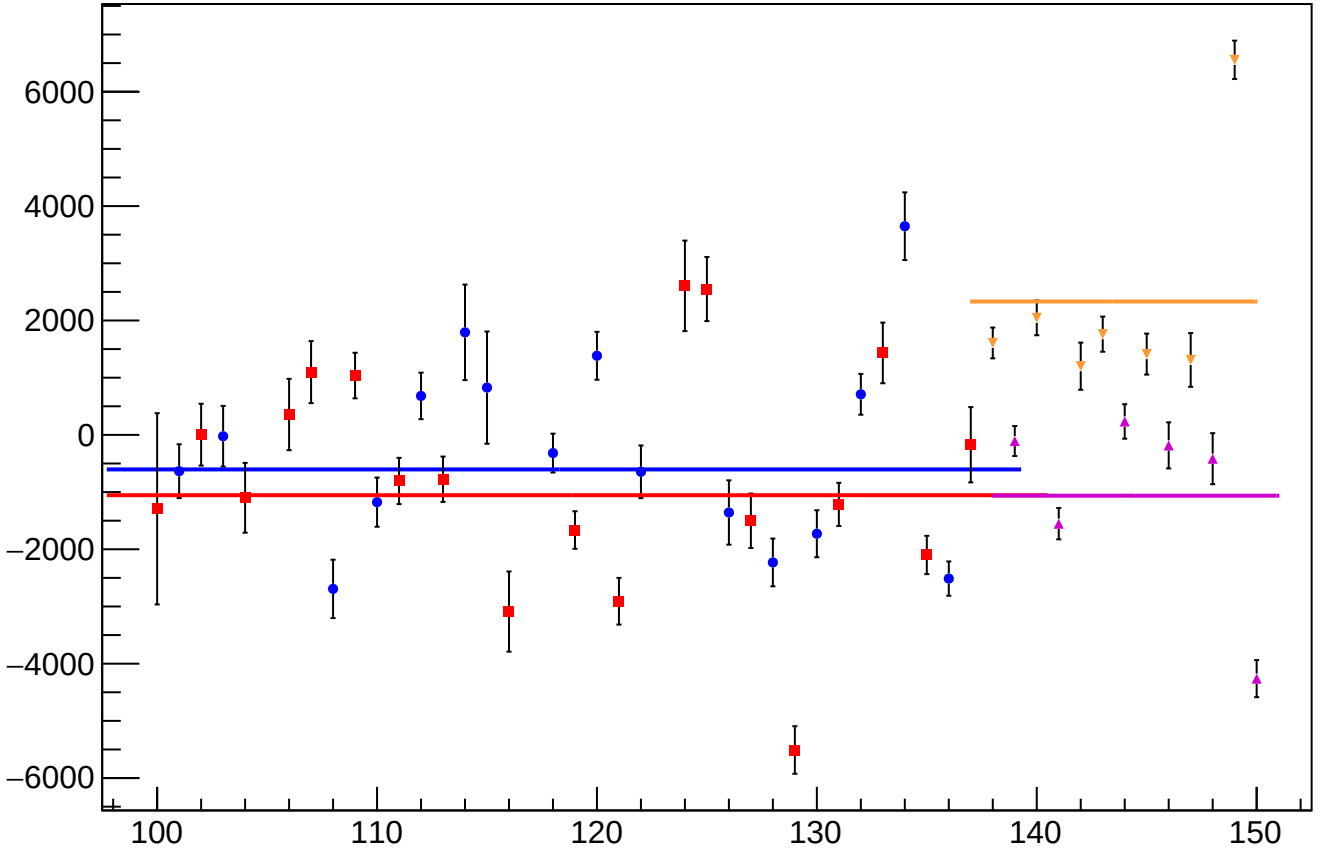
Right: 195.446+/-0.038 $\chi^2$/NDF: 2426275.9/34

In: 206.788+/-0.043 $\chi^2$/NDF:1466078.7/21

Out: 194.682+/-0.041 $\chi^2$/NDF:1798738.1/25

All: 200.343+/-0.030 $\chi^2$/NDF: 3306566.2/47

# asym_bpm0r03WS_mean vs Slug, Sign Corrected




Right In: -603.855+/-110.693 $\chi^2$/NDF: 193.5/15

Left Out: 2331.976+/-126.759 $\chi^2$/NDF:189.1/6

Right Out: -1054.556+/-108.264 $\chi^2$/NDF: 297.7/18

Left In: -1062.826+/-129.530 $\chi^2$/NDF:139.1/5

Left: 671.268+/-90.596 $\chi^2$/NDF: 679.0/12

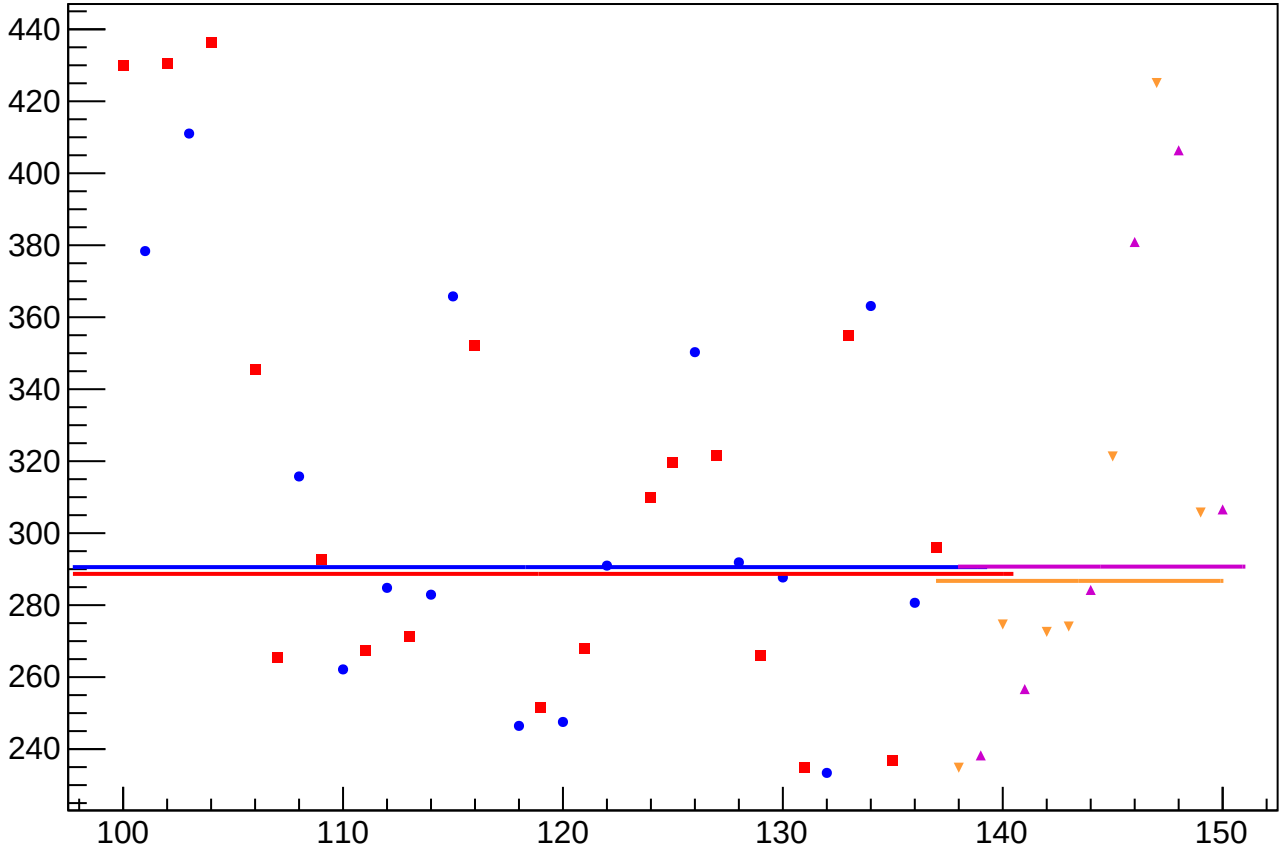
Right: -834.205+/-77.398 $\chi^2$/NDF: 499.7/34

In: -797.570+/-84.151 $\chi^2$/NDF:339.9/21

Out: 373.842+/-82.324 $\chi^2$/NDF:899.4/25

All: -199.011+/-58.847 $\chi^2$/NDF: 1338.3/47

# asym_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 290.566+/-0.078 $\chi^2$/NDF: 359807.1/15

Left Out: 286.740+/-0.090 $\chi^2$/NDF:281590.3/6

Right Out: 288.686+/-0.077 $\chi^2$/NDF: 489094.8/18

Left In: 290.707+/-0.092 $\chi^2$/NDF:351548.0/5

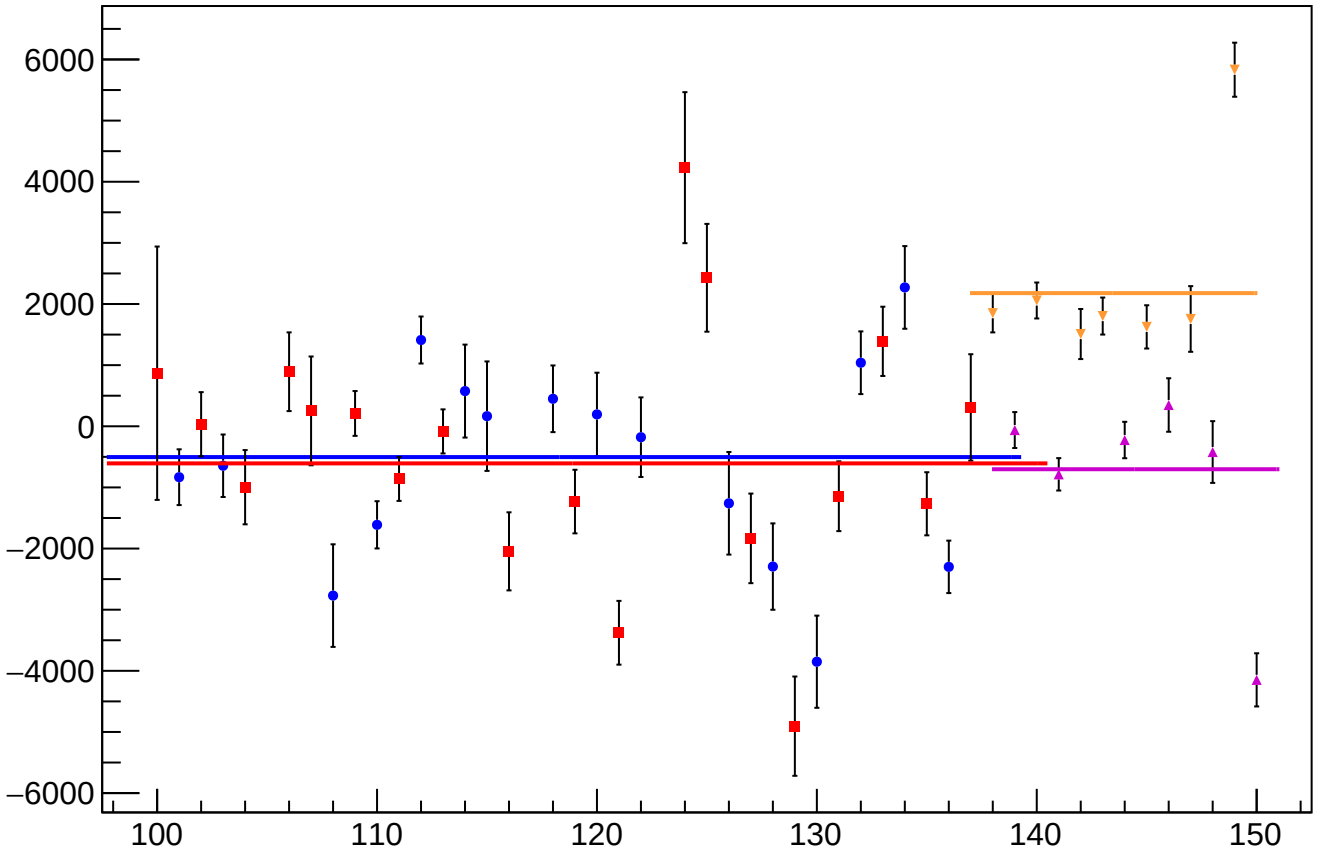
Left: 288.680+/-0.064 $\chi^2$/NDF: 634096.5/12

Right: 289.605+/-0.055 $\chi^2$/NDF: 849196.8/34

In: 290.625+/-0.060 $\chi^2$/NDF:711356.4/21

Out: 287.865+/-0.058 $\chi^2$/NDF:770957.7/25

All: 289.215+/-0.042 $\chi^2$/NDF: 1483413.9/47




Right In: -503.675+/-140.058 $\chi^2$/NDF: 118.2/15

Left Out: 2178.210+/-134.688 $\chi^2$/NDF:76.8/6

Right Out: -606.880+/-129.609 $\chi^2$/NDF: 125.1/18

Left In: -702.449+/-139.311 $\chi^2$/NDF:76.2/5

Left: 786.466+/-96.832 $\chi^2$/NDF: 374.0/12

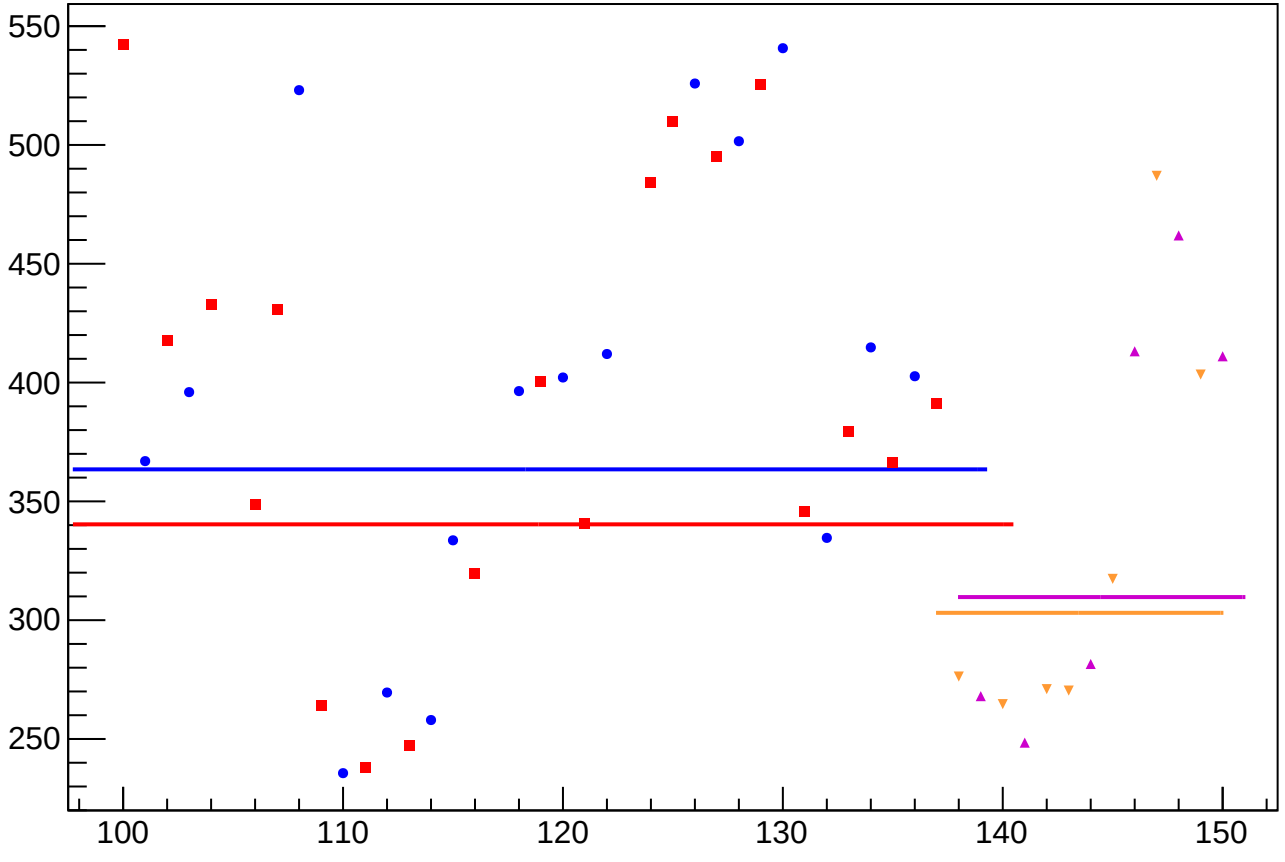
Right: -559.271+/-95.127 $\chi^2$/NDF: 243.7/34

In: -603.594+/-98.771 $\chi^2$/NDF:195.5/21

Out: 732.160+/-93.391 $\chi^2$/NDF:423.9/25

All: 101.647+/-67.860 $\chi^2$/NDF: 716.0/47

# asym_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 363.471+/-0.099 $\chi^2$/NDF: 780893.2/15

Left Out: 303.091+/-0.095 $\chi^2$/NDF:424916.3/6

Right Out: 340.332+/-0.092 $\chi^2$/NDF: 856230.3/18

Left In: 309.724+/-0.099 $\chi^2$/NDF:567019.0/5

Left: 306.296+/-0.068 $\chi^2$/NDF: 994278.2/12

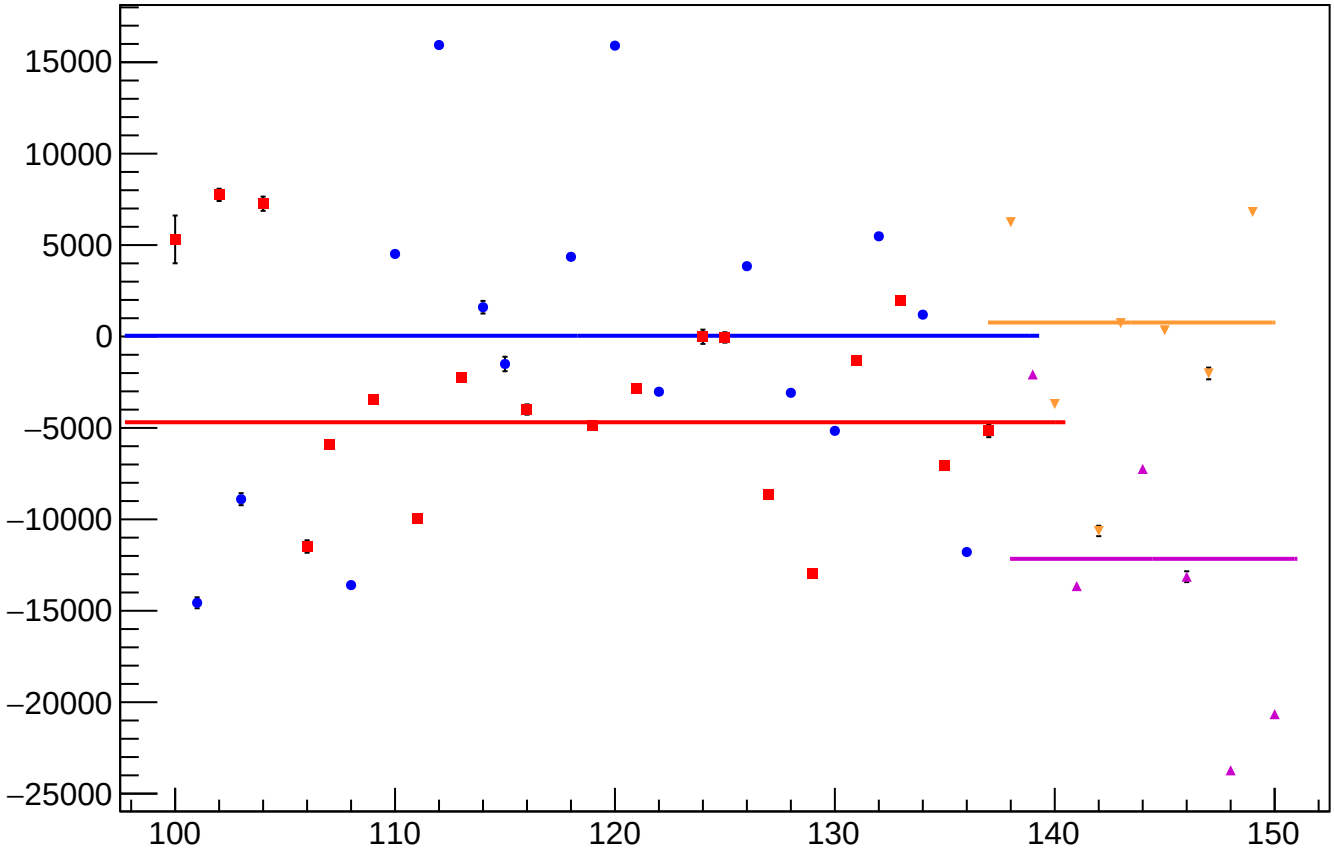
Right: 351.006+/-0.067 $\chi^2$/NDF: 1666529.8/34

In: 336.454+/-0.070 $\chi^2$/NDF:1495965.8/21

Out: 322.427+/-0.066 $\chi^2$/NDF:1360534.3/25

All: 329.048+/-0.048 $\chi^2$/NDF: 2877794.9/47

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: 764.615+/-89.854 $\chi^2$/NDF:3645.4/6

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -12158.886+/-91.352 $\chi^2$/NDF:6847.6/5

Left: -5590.295+/-64.059 $\chi^2$/NDF: 20665.2/12

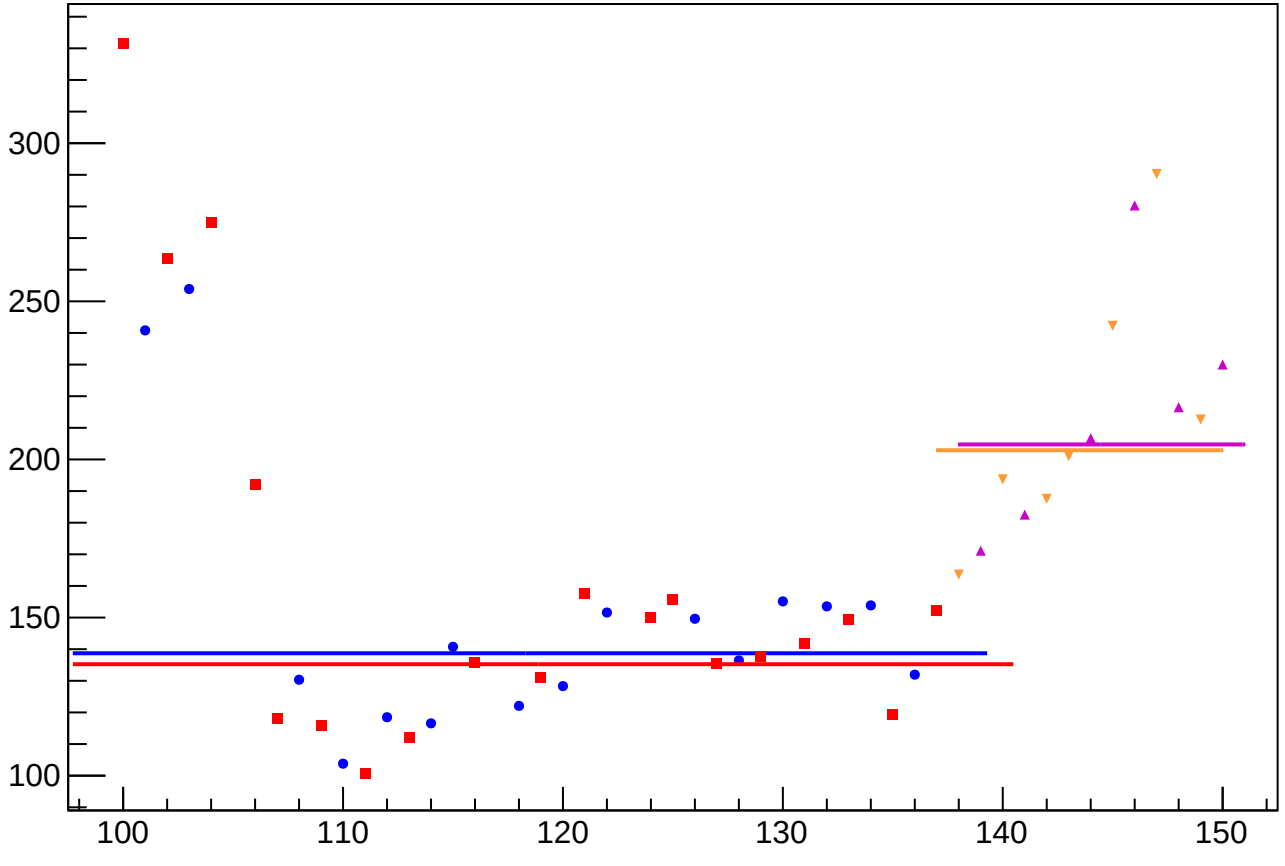
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -3135.369+/-46.612 $\chi^2$/NDF:50825.4/21

Out: -3317.532+/-45.068 $\chi^2$/NDF:14198.8/25

All: -3229.517+/-32.400 $\chi^2$/NDF: 65032.1/47

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 202.921+/-0.064 $\chi^2$/NDF:292889.2/6

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 204.744+/-0.065 $\chi^2$/NDF:245499.5/5

Left: 203.817+/-0.045 $\chi^2$/NDF: 538793.7/12

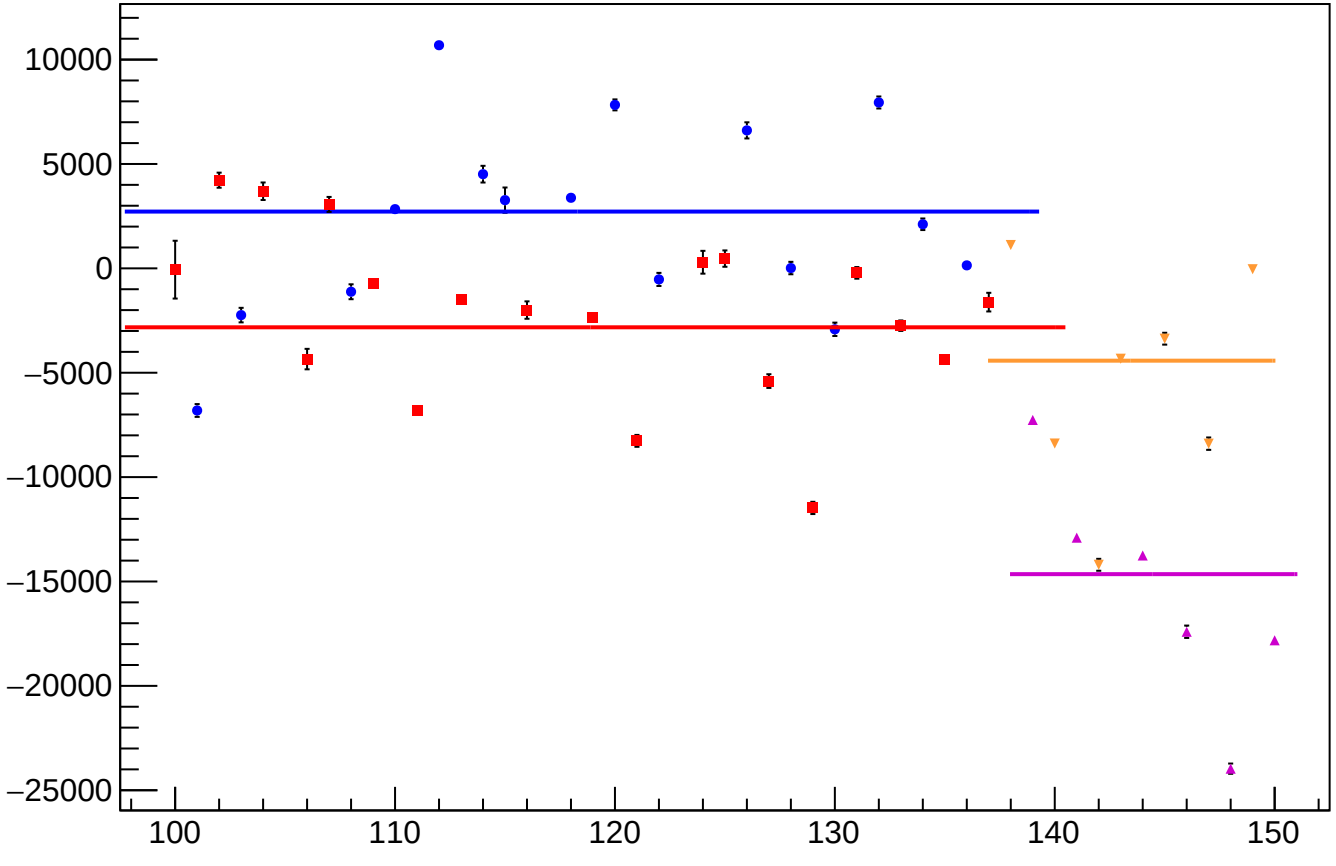
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 155.904+/-0.033 $\chi^2$/NDF:1676199.4/21

Out: 152.271+/-0.032 $\chi^2$/NDF:2032033.3/25

All: 154.026+/-0.023 $\chi^2$/NDF: 3714512.3/47

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -4422.078+/-90.045 $\chi^2$/NDF:2867.6/6

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -14648.323+/-90.769 $\chi^2$/NDF:3209.9/5

Left: -9494.225+/-63.926 $\chi^2$/NDF: 12474.8/12

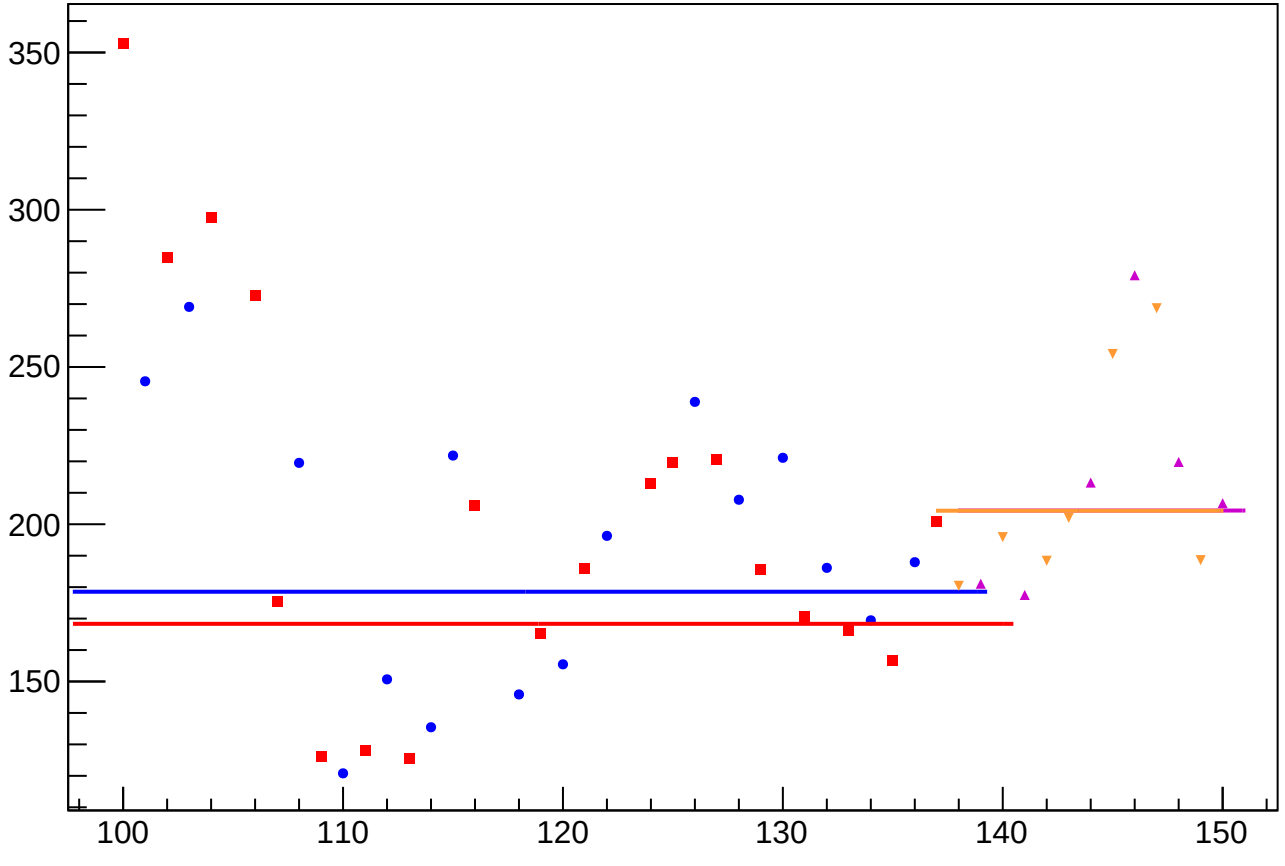
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -3669.695+/-55.055 $\chi^2$/NDF:30482.6/21

Out: -3369.591+/-52.623 $\chi^2$/NDF:6137.9/25

All: -3512.869+/-38.041 $\chi^2$/NDF: 36636.0/47

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 204.301+/-0.064 $\chi^2$/NDF:203307.6/6

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 204.357+/-0.064 $\chi^2$/NDF:206056.2/5

Left: 204.329+/-0.045 $\chi^2$/NDF: 409364.2/12

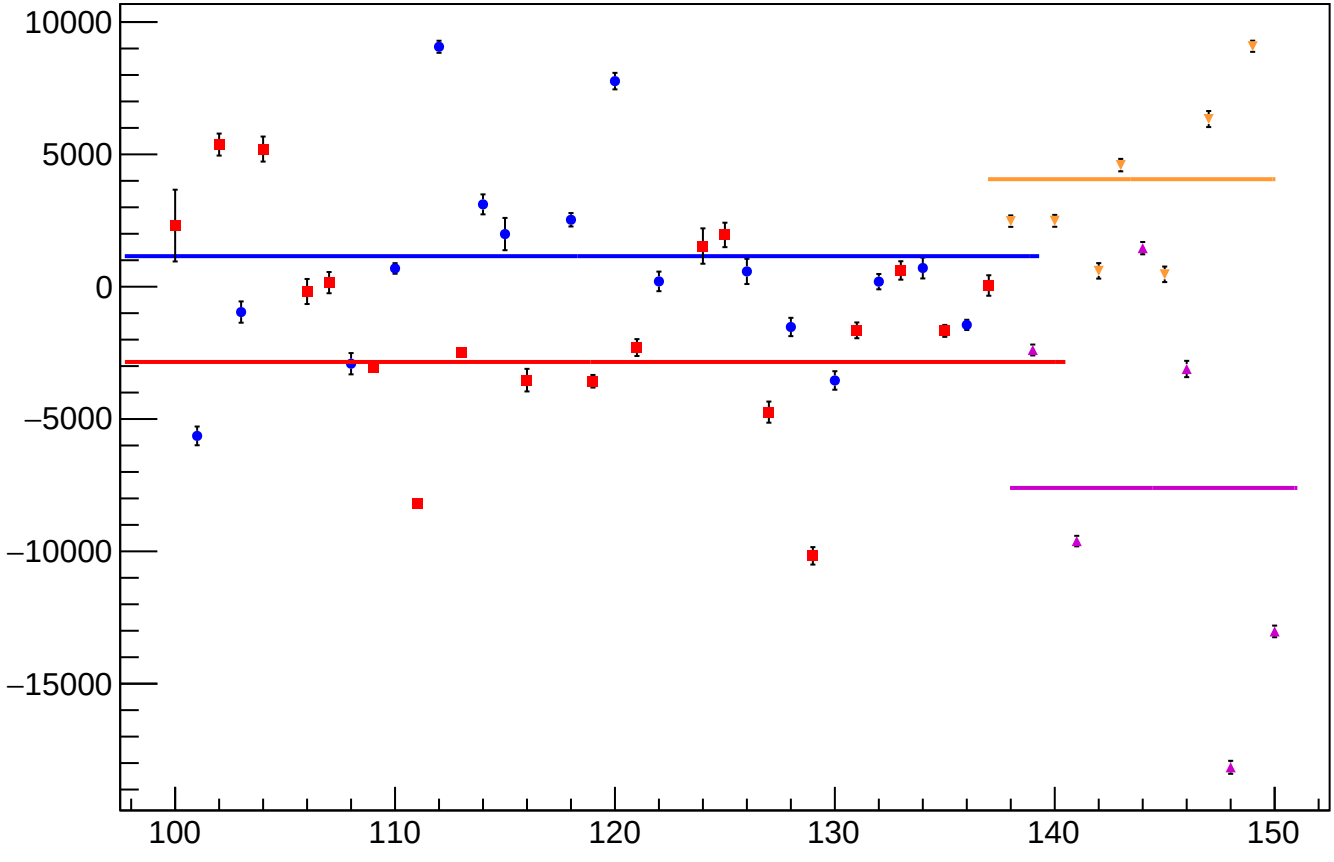
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 188.039+/-0.039 $\chi^2$/NDF:982890.6/21

Out: 180.619+/-0.037 $\chi^2$/NDF:1392904.3/25

All: 184.161+/-0.027 $\chi^2$/NDF: 2394779.0/47

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 4062.480+/-92.926 $\chi^2$/NDF:1020.2/6

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -7603.653+/-93.178 $\chi^2$/NDF:4927.1/5

Left: -1754.788+/-65.798 $\chi^2$/NDF: 13806.3/12

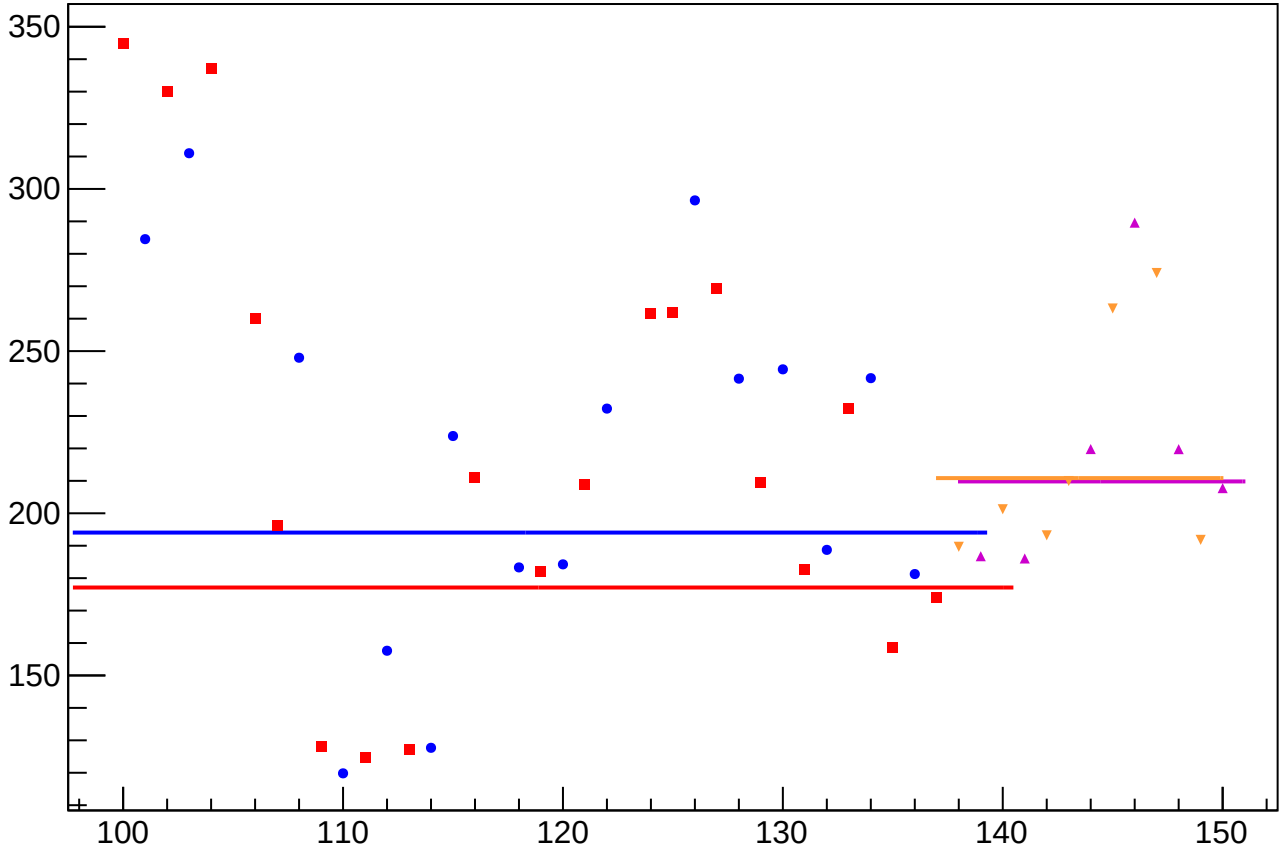
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -2342.367+/-58.874 $\chi^2$/NDF:12889.3/21

Out: -383.021+/-55.470 $\chi^2$/NDF:7028.7/25

All: -1304.418+/-40.373 $\chi^2$/NDF: 20504.8/47

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 210.847+/-0.066 $\chi^2$/NDF:196634.9/6

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 209.821+/-0.066 $\chi^2$/NDF:195042.9/5

Left: 210.335+/-0.047 $\chi^2$/NDF: 391799.5/12

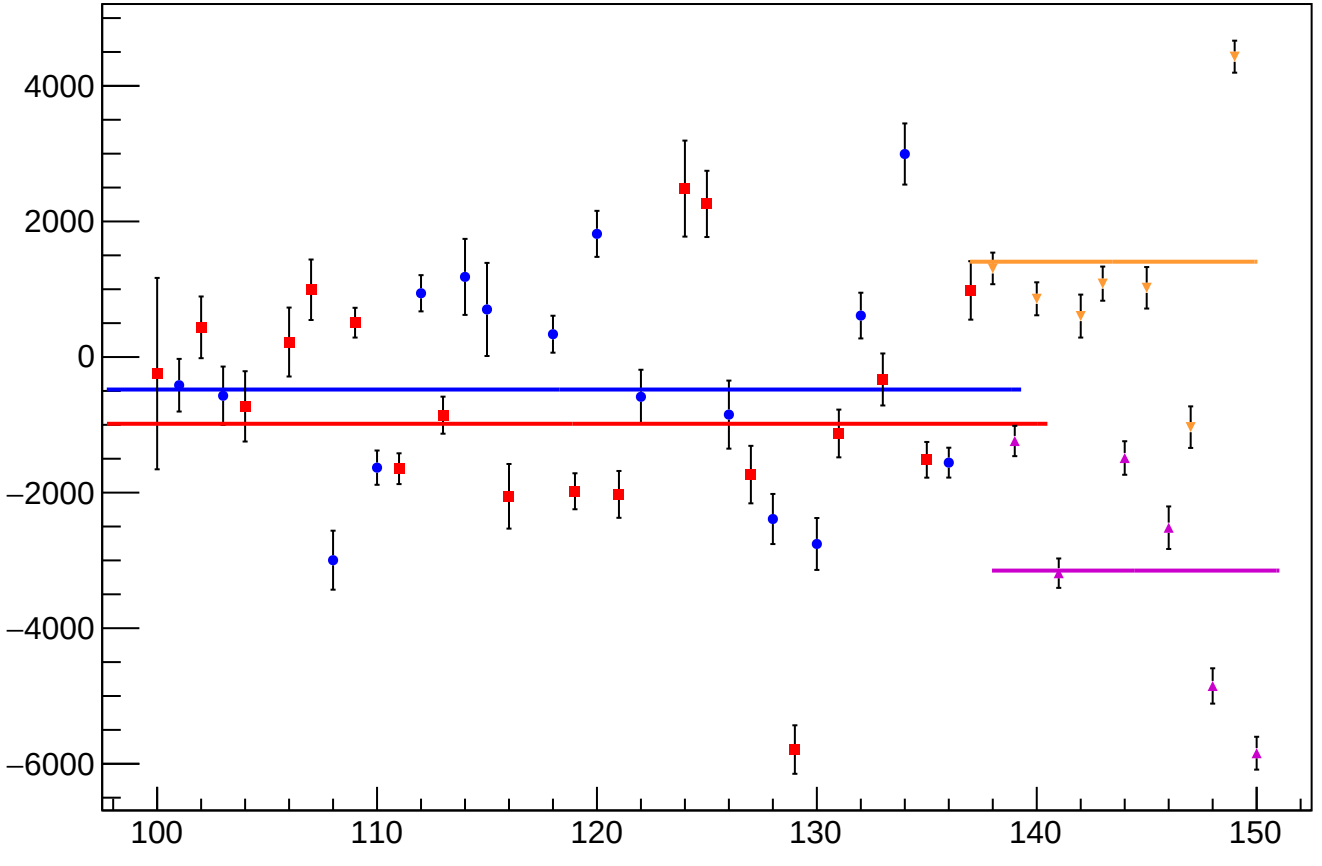
Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 200.348+/-0.042 $\chi^2$/NDF:1195236.8/21

Out: 189.134+/-0.039 $\chi^2$/NDF:1725614.7/25

All: 194.408+/-0.029 $\chi^2$/NDF: 2959285.7/47

# asym_bpm0i07WS_mean vs Slug, Sign Corrected




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 1406.365+/-99.862 $\chi^2$/NDF:242.3/6

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -3150.050+/-100.247 $\chi^2$/NDF:288.5/5

Left: -863.068+/-70.749 $\chi^2$/NDF: 1567.7/12

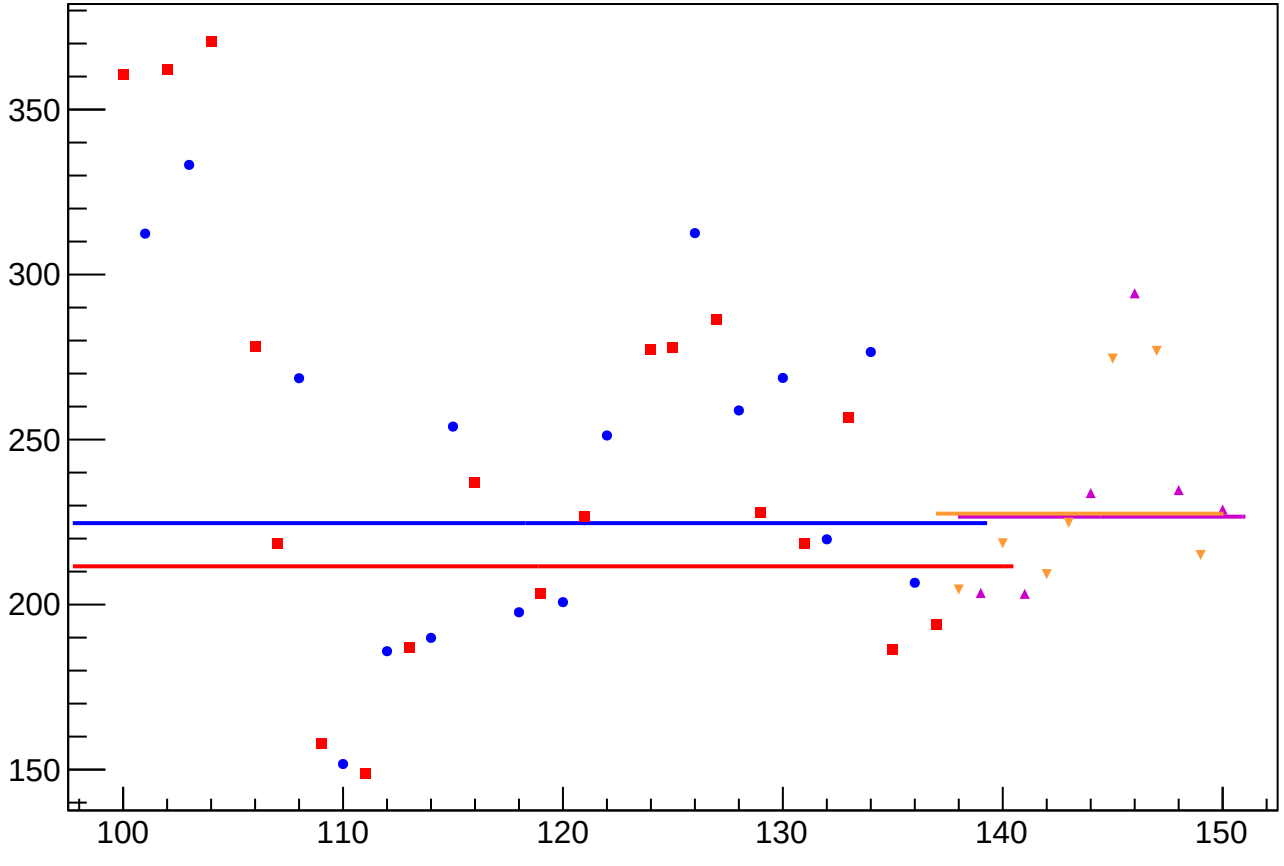
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -1621.923+/-65.570 $\chi^2$/NDF:1000.0/21

Out: -36.496+/-62.882 $\chi^2$/NDF:986.4/25

All: -796.045+/-45.385 $\chi^2$/NDF: 2290.9/47

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 227.560+/-0.071 $\chi^2$/NDF:133624.6/6

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 226.647+/-0.071 $\chi^2$/NDF:141440.4/5

Left: 227.105+/-0.050 $\chi^2$/NDF: 275148.2/12

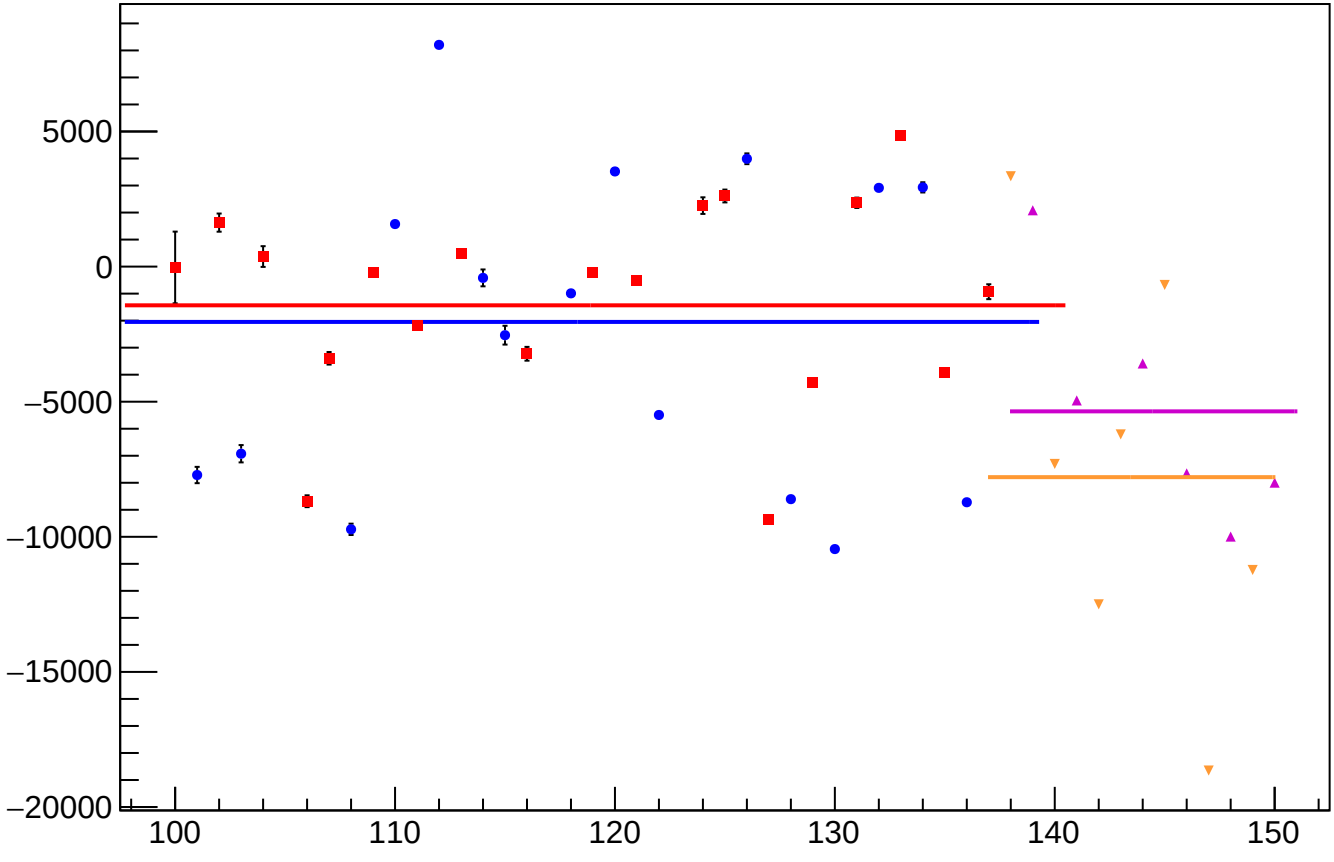
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 225.523+/-0.046 $\chi^2$/NDF:795073.2/21

Out: 217.925+/-0.044 $\chi^2$/NDF:1097374.8/25

All: 221.565+/-0.032 $\chi^2$/NDF: 1906437.0/47

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -7792.158+/-48.936 $\chi^2$/NDF:19956.2/6

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -5357.407+/-49.971 $\chi^2$/NDF:5925.2/5

Left: -6600.270+/-34.963 $\chi^2$/NDF: 27093.2/12

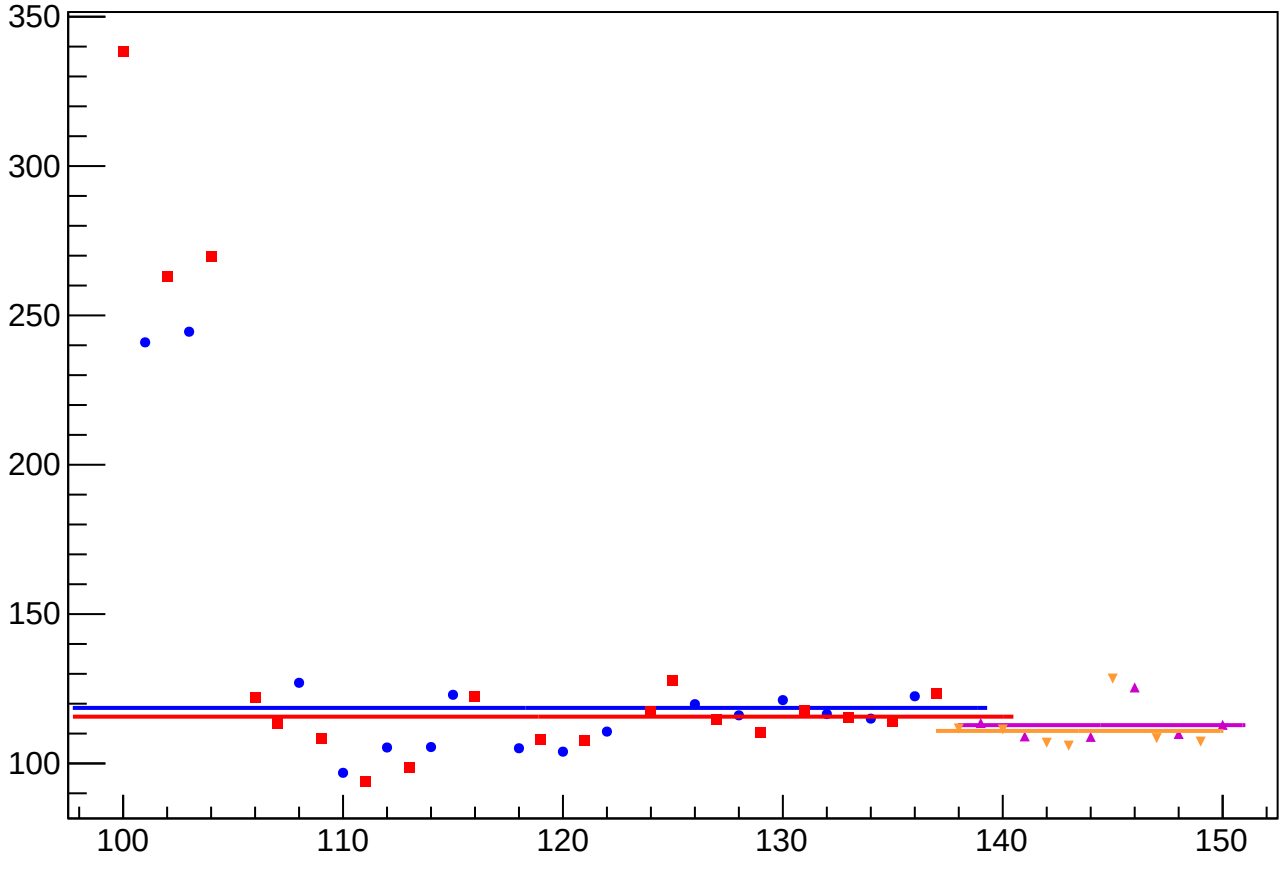
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -3591.220+/-34.128 $\chi^2$/NDF:24975.6/21

Out: -4327.490+/-33.015 $\chi^2$/NDF:35544.5/25

All: -3971.555+/-23.729 $\chi^2$/NDF: 60760.5/47

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 110.891+/-0.035 $\chi^2$/NDF:36512.9/6

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 112.822+/-0.035 $\chi^2$/NDF:23349.4/5

Left: 111.836+/-0.025 $\chi^2$/NDF: 61385.9/12

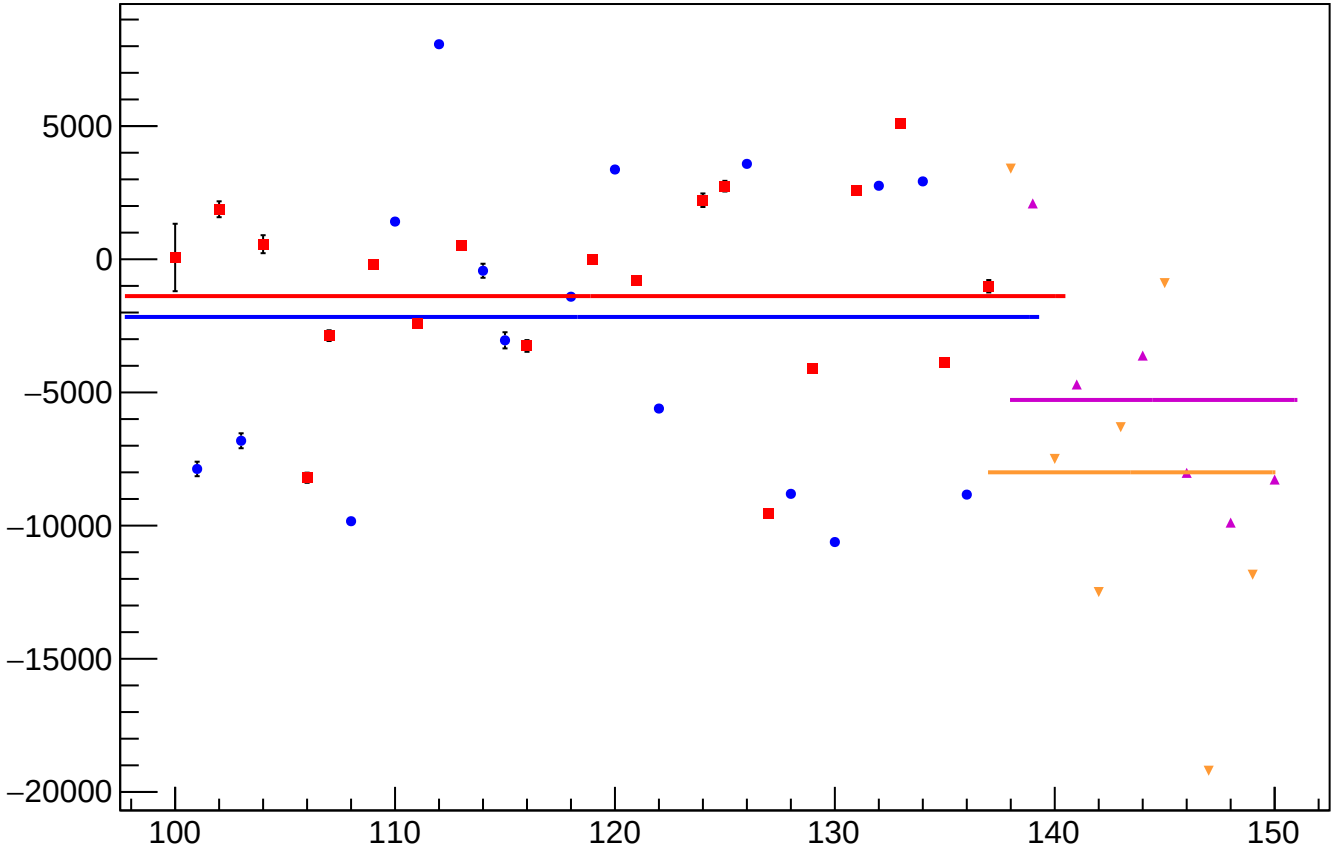
Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 115.903+/-0.024 $\chi^2$/NDF:771755.6/21

Out: 113.489+/-0.023 $\chi^2$/NDF:911064.7/25

All: 114.656+/-0.017 $\chi^2$/NDF: 1687986.9/47

# asym_bpm1i04WS_mean vs Slug, Sign Corrected




Right In: -2165.877+/-39.632 $\chi^2$/NDF: 22874.8/15

Left Out: -7999.042+/-45.368 $\chi^2$/NDF:23893.1/6

Right Out: -1383.103+/-37.976 $\chi^2$/NDF: 9148.6/18

Left In: -5281.825+/-47.055 $\chi^2$/NDF:6975.7/5

Left: -6690.009+/-32.660 $\chi^2$/NDF: 32596.9/12

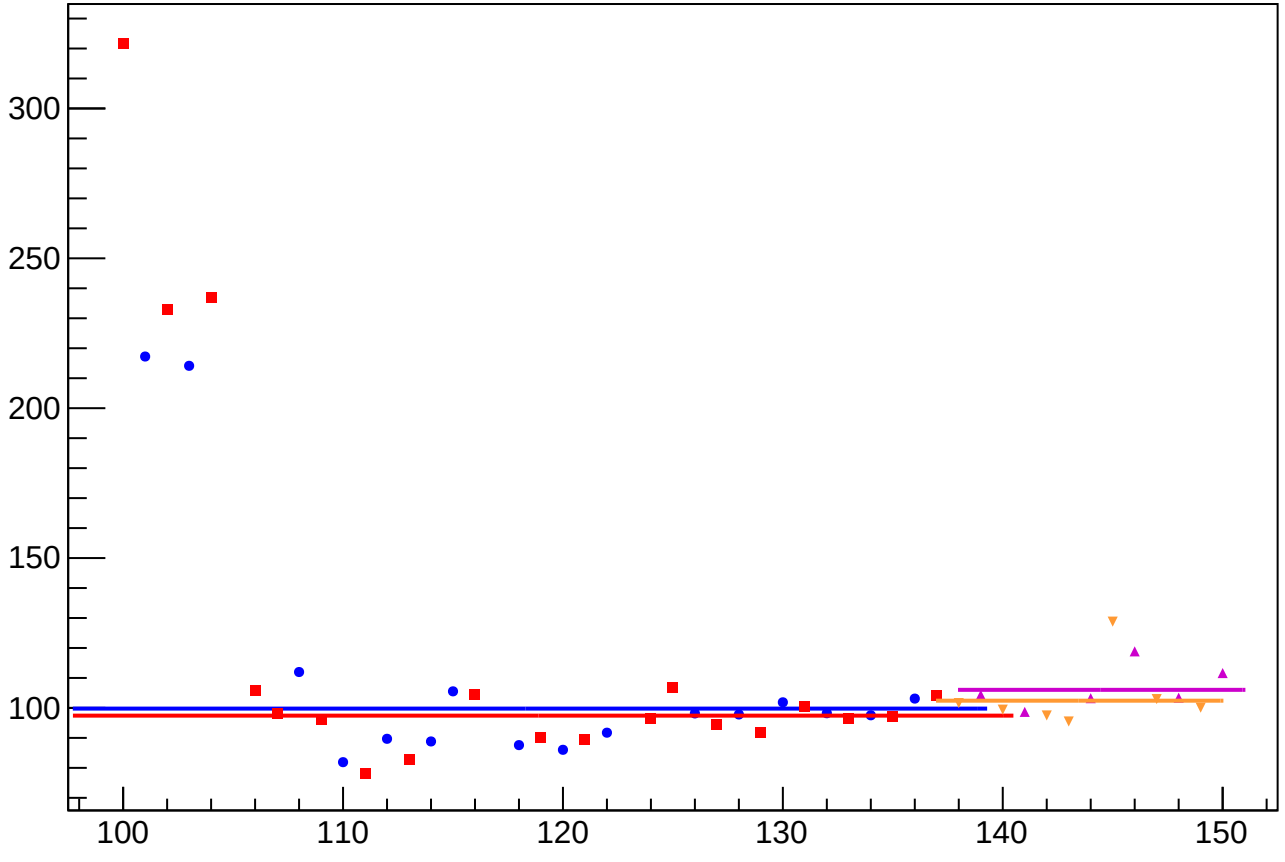
Right: -1757.793+/-27.420 $\chi^2$/NDF: 32226.8/34

In: -3458.961+/-30.313 $\chi^2$/NDF:32415.7/21

Out: -4108.811+/-29.120 $\chi^2$/NDF:45546.0/25

All: -3796.919+/-21.000 $\chi^2$/NDF: 78200.7/47

# asym_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 99.775+/-0.028 $\chi^2$/NDF: 809152.9/15

Left Out: 102.415+/-0.032 $\chi^2$/NDF:78670.1/6

Right Out: 97.428+/-0.027 $\chi^2$/NDF: 926047.7/18

Left In: 106.032+/-0.033 $\chi^2$/NDF:37173.7/5

Left: 104.158+/-0.023 $\chi^2$/NDF: 121968.2/12

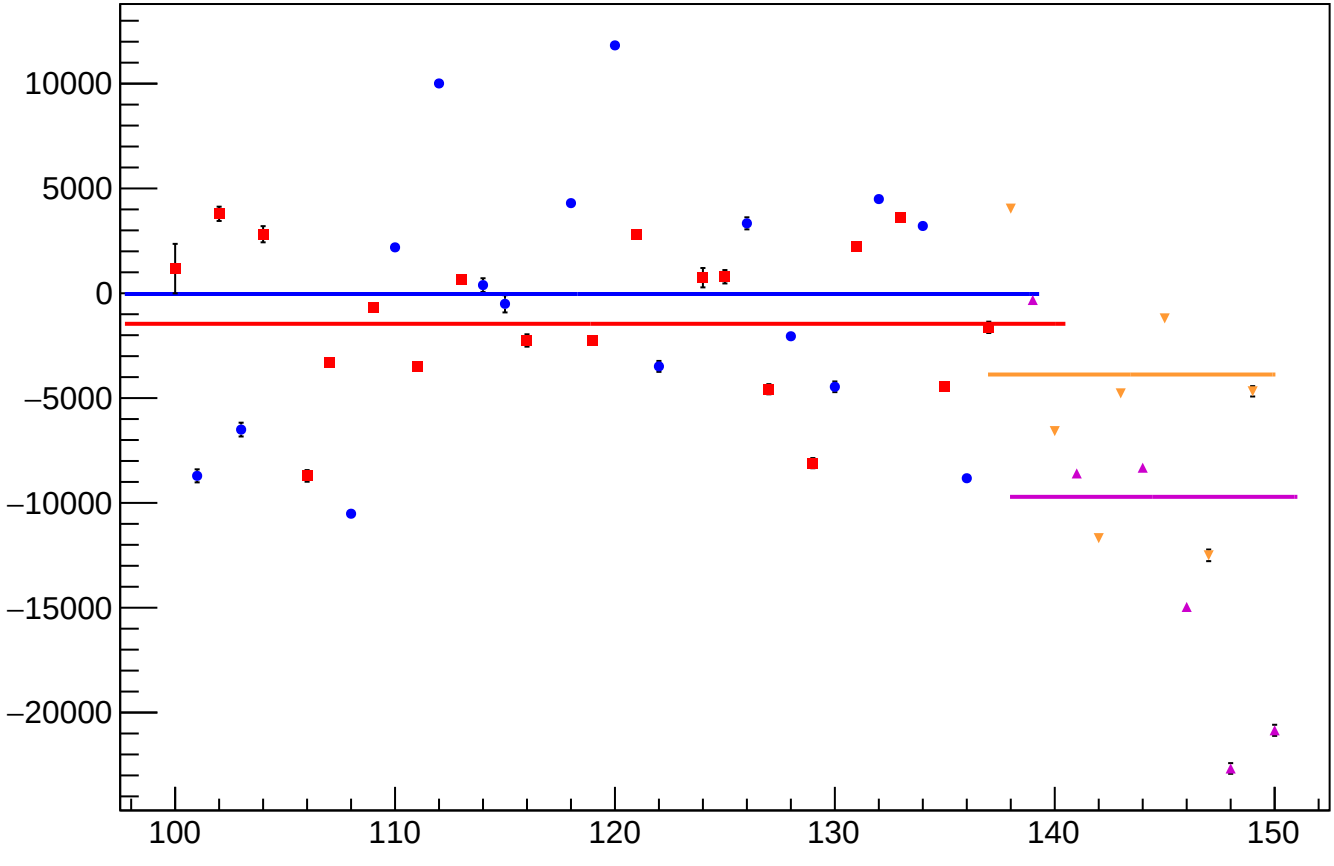
Right: 98.551+/-0.019 $\chi^2$/NDF: 1738857.3/34

In: 102.371+/-0.021 $\chi^2$/NDF:867019.6/21

Out: 99.482+/-0.021 $\chi^2$/NDF:1018931.8/25

All: 100.869+/-0.015 $\chi^2$/NDF: 1895399.4/47

# asym_bpm1i06WS_mean vs Slug, Sign Corrected




Right In: -34.667+/-53.465 $\chi^2$/NDF: 16802.8/15

Left Out: -3875.585+/-74.380 $\chi^2$/NDF:5139.2/6

Right Out: -1456.665+/-51.946 $\chi^2$/NDF: 4117.0/18

Left In: -9710.825+/-79.222 $\chi^2$/NDF:8491.5/5

Left: -6609.445+/-54.226 $\chi^2$/NDF: 16514.3/12

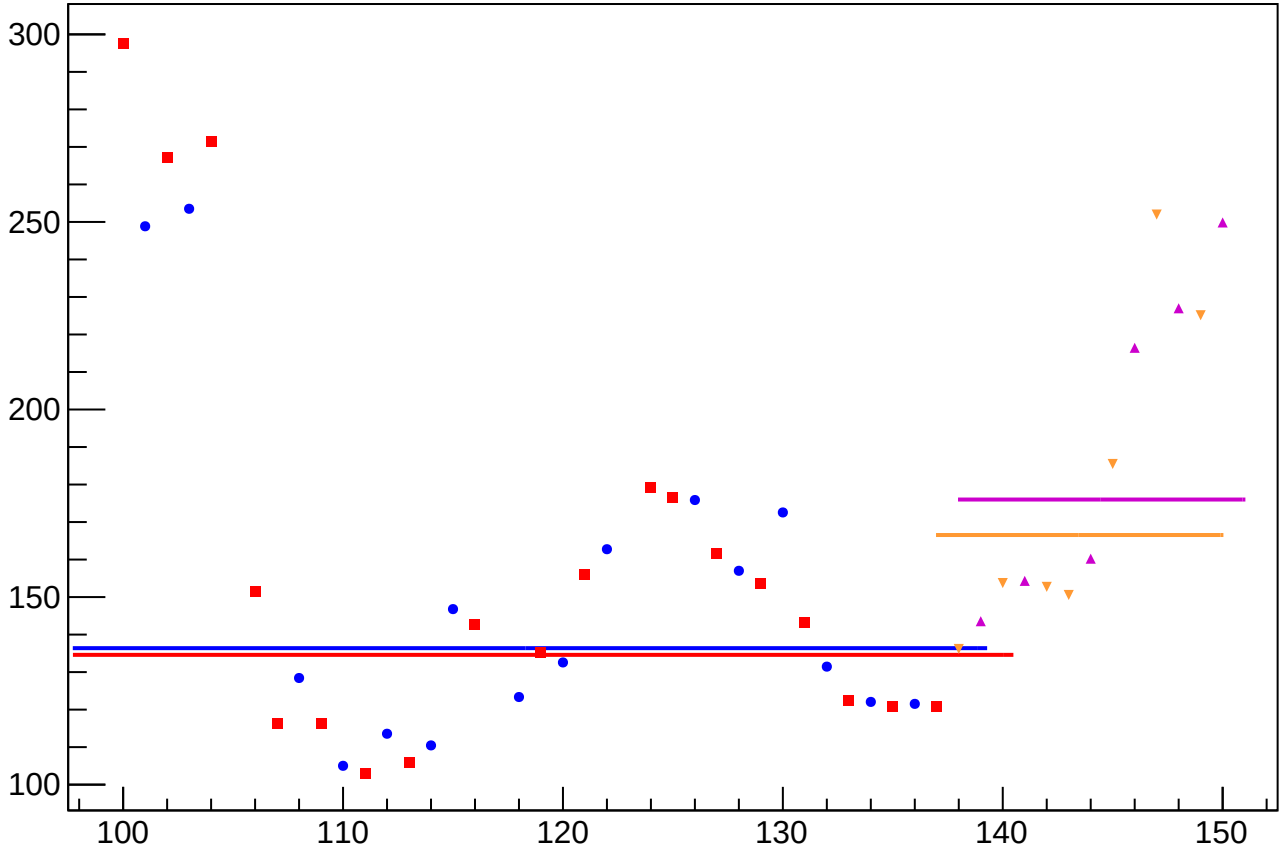
Right: -766.160+/-37.257 $\chi^2$/NDF: 21283.7/34

In: -3062.650+/-44.317 $\chi^2$/NDF:35544.1/21

Out: -2249.680+/-42.588 $\chi^2$/NDF:9967.1/25

All: -2639.996+/-30.707 $\chi^2$/NDF: 45686.2/47

# asym_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 136.383+/-0.038 $\chi^2$/NDF: 796855.7/15

Left Out: 166.544+/-0.053 $\chi^2$/NDF:430397.4/6

Right Out: 134.598+/-0.037 $\chi^2$/NDF: 919605.2/18

Left In: 176.003+/-0.056 $\chi^2$/NDF:433636.8/5

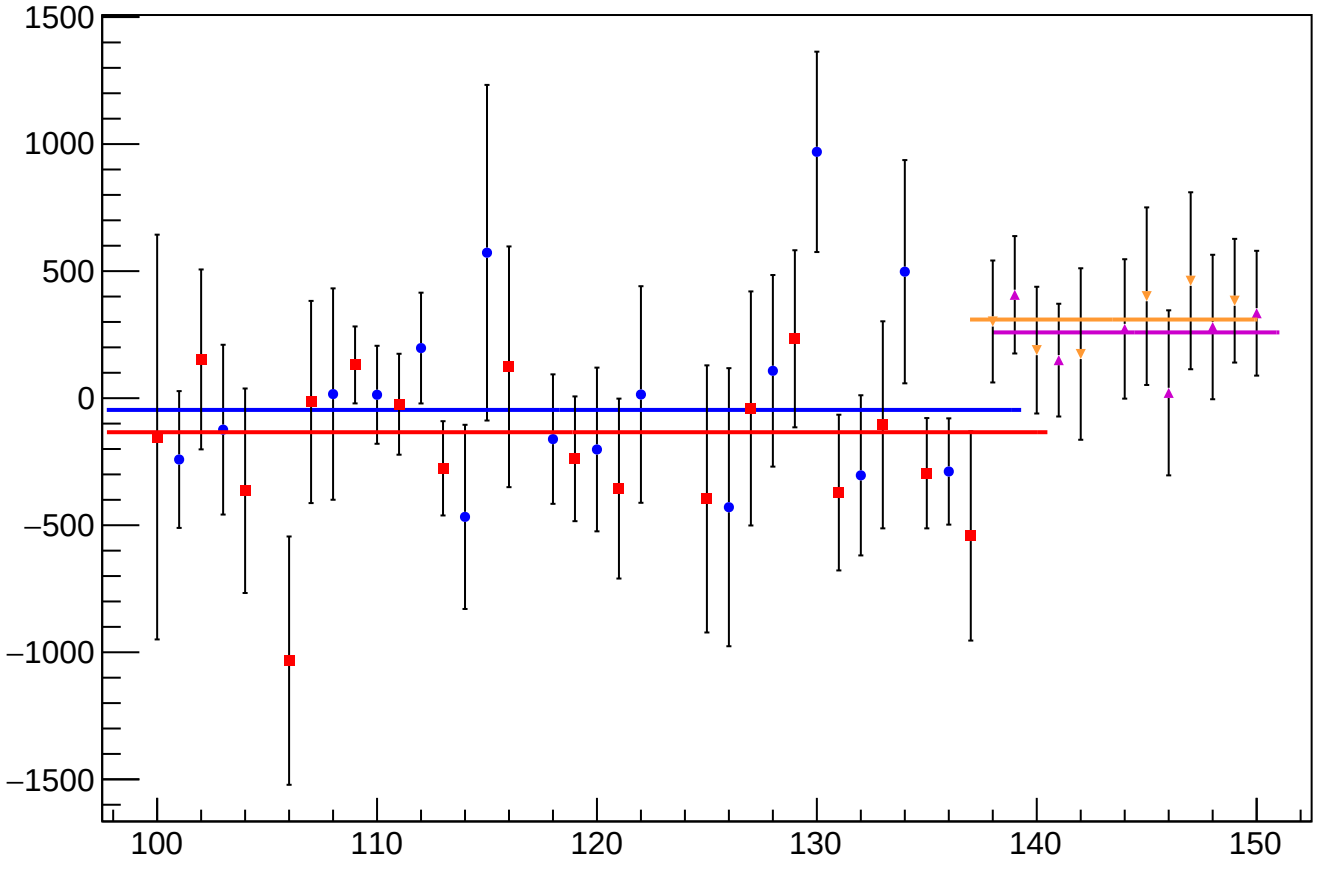
Left: 170.975+/-0.038 $\chi^2$/NDF: 879189.2/12

Right: 135.465+/-0.026 $\chi^2$/NDF: 1717607.6/34

In: 148.782+/-0.031 $\chi^2$/NDF:1574175.6/21

Out: 145.071+/-0.030 $\chi^2$/NDF:1597974.5/25

All: 146.853+/-0.022 $\chi^2$/NDF: 3179438.3/47




Right In: -46.199+/-76.283 $\chi^2$/NDF: 15.5/15

Left Out: 309.524+/-115.059 $\chi^2$/NDF:0.7/5

Right Out: -133.913+/-68.414 $\chi^2$/NDF: 12.8/17

Left In: 258.864+/-104.961 $\chi^2$/NDF:1.3/5

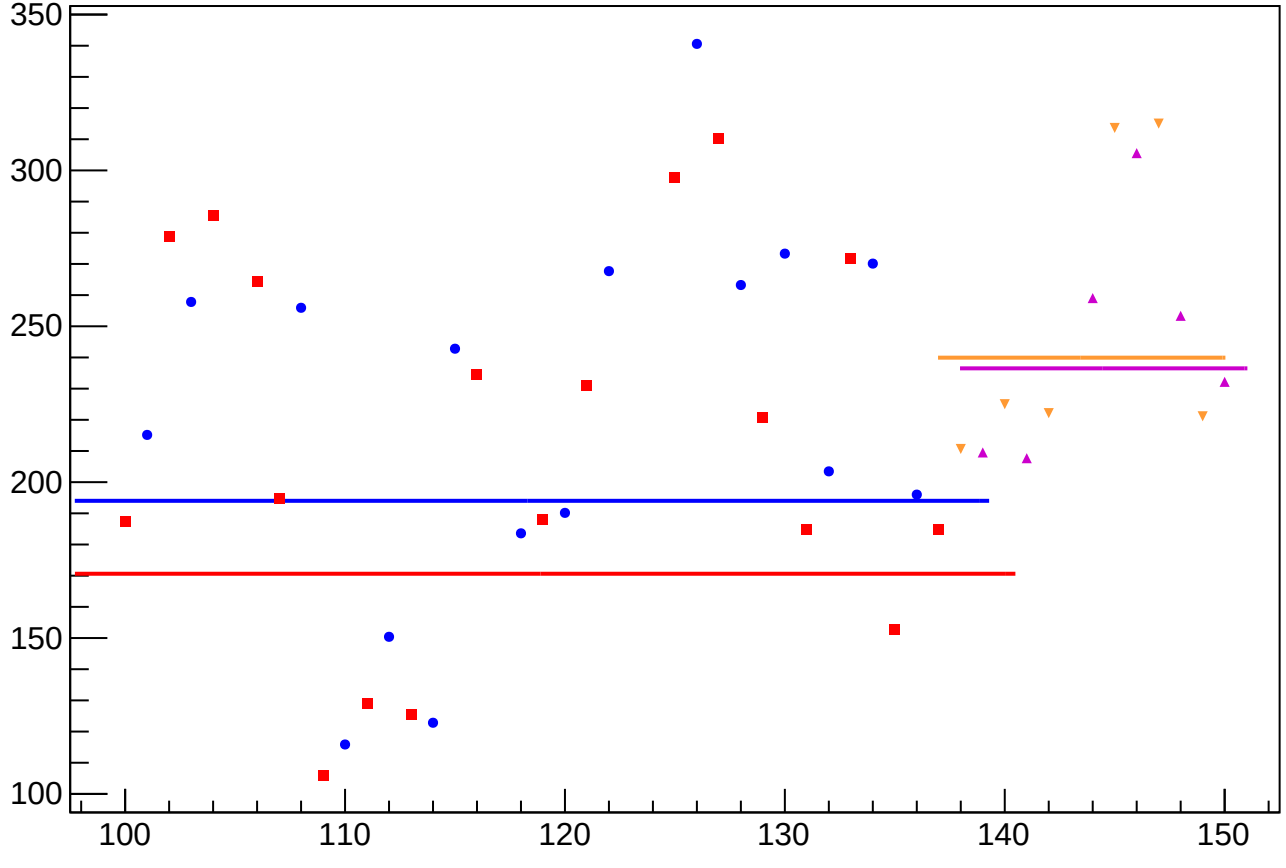
Left: 281.874+/-77.543 $\chi^2$/NDF: 2.1/11

Right: -94.812+/-50.931 $\chi^2$/NDF: 29.0/33

In: 59.242+/-61.707 $\chi^2$/NDF:22.3/21

Out: -18.088+/-58.804 $\chi^2$/NDF:24.6/23

All: 18.715+/-42.570 $\chi^2$/NDF: 47.7/45




Right In: 194.017+/-0.054 $\chi^2$/NDF: 1043588.7/15

Left Out: 239.938+/-0.081 $\chi^2$/NDF:236359.2/5

Right Out: 170.624+/-0.048 $\chi^2$/NDF: 1593735.4/17

Left In: 236.509+/-0.074 $\chi^2$/NDF:172518.1/5

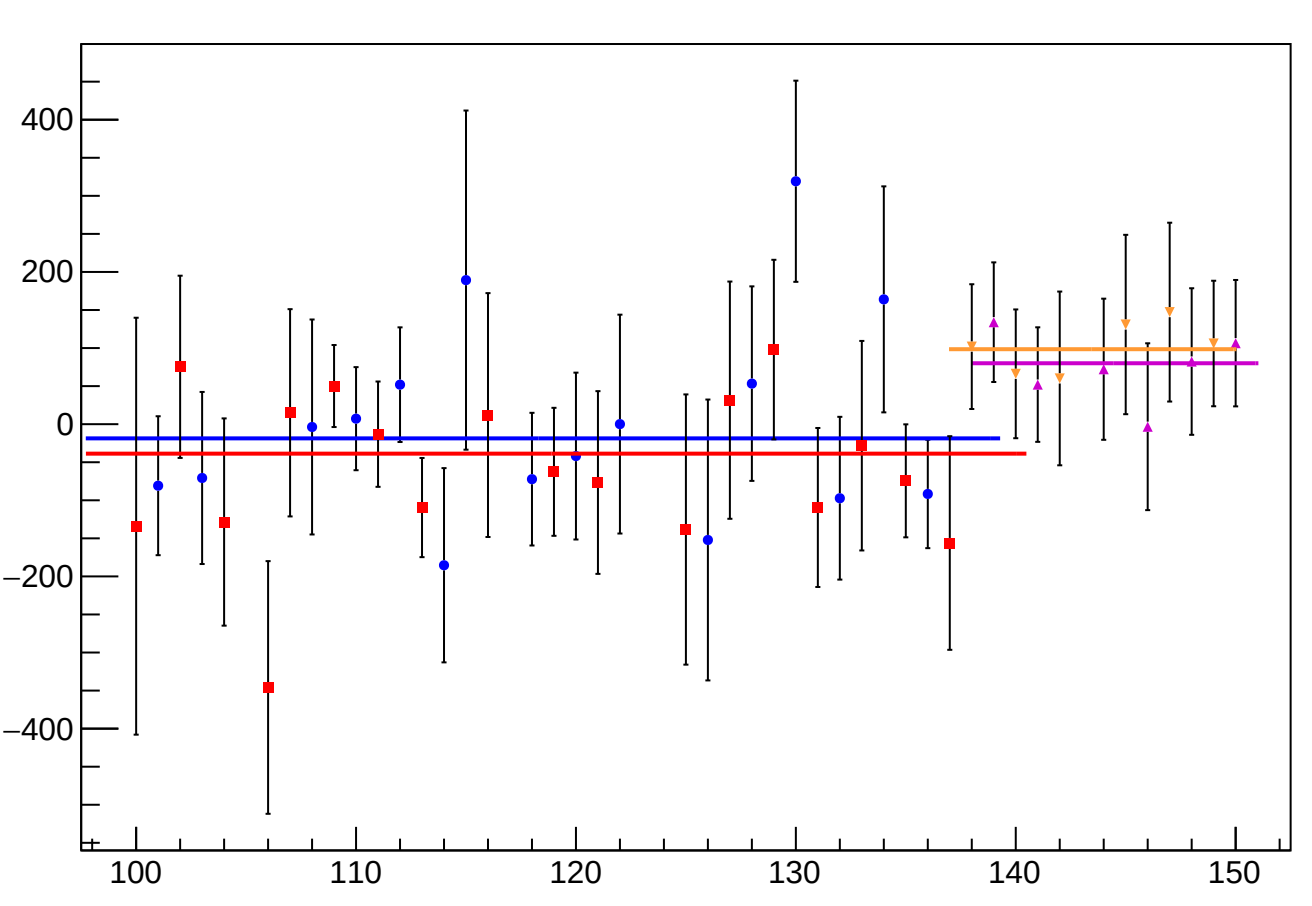
Left: 238.066+/-0.055 $\chi^2$/NDF: 409846.9/11

Right: 181.052+/-0.036 $\chi^2$/NDF: 2741566.5/33

In: 208.704+/-0.044 $\chi^2$/NDF:1430596.5/21

Out: 188.728+/-0.042 $\chi^2$/NDF:2366336.4/23

All: 198.235+/-0.030 $\chi^2$/NDF: 3906766.9/45




Right In: -18.645+/-26.122 $\chi^2$/NDF: 15.2/15

Left Out: 98.510+/-39.014 $\chi^2$/NDF:0.5/5

Right Out: -38.716+/-23.652 $\chi^2$/NDF: 12.6/17

Left In: 80.049+/-35.554 $\chi^2$/NDF:1.3/5

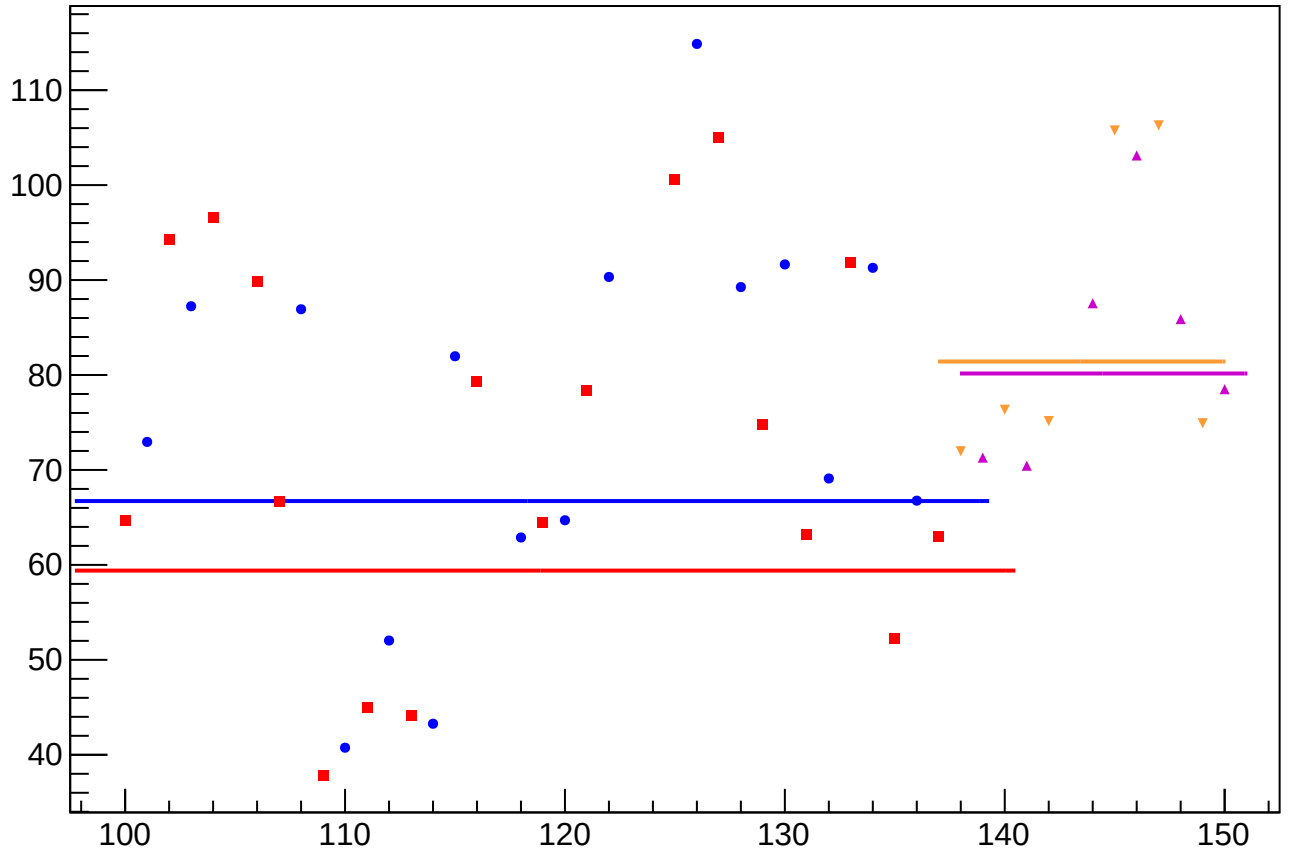
Left: 88.425+/-26.279 $\chi^2$/NDF: 1.9/11

Right: -29.674+/-17.533 $\chi^2$/NDF: 28.2/33

In: 15.955+/-21.051 $\chi^2$/NDF:21.5/21

Out: -1.837+/-20.225 $\chi^2$/NDF:22.2/23

All: 6.703+/-14.585 $\chi^2$/NDF: 44.1/45




Right In: 66.724+/-0.018 $\chi^2$/NDF: 947040.2/15

Left Out: 81.421+/-0.028 $\chi^2$/NDF:227219.9/5

Right Out: 59.400+/-0.017 $\chi^2$/NDF: 1445371.1/17

Left In: 80.158+/-0.025 $\chi^2$/NDF:167134.1/5

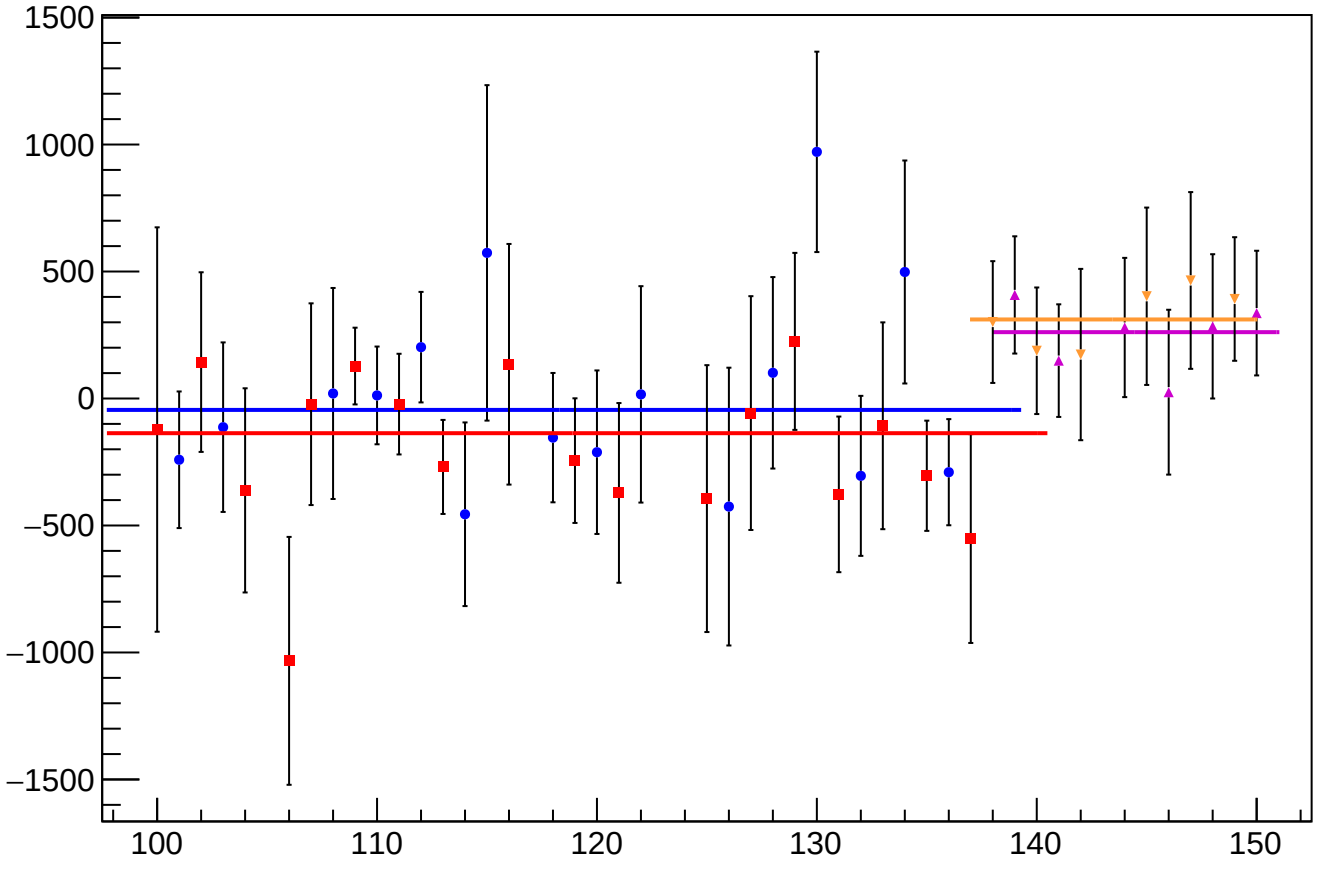
Left: 80.731+/-0.019 $\chi^2$/NDF: 395498.2/11

Right: 62.700+/-0.012 $\chi^2$/NDF: 2478799.5/33

In: 71.434+/-0.015 $\chi^2$/NDF:1299603.8/21

Out: 65.318+/-0.014 $\chi^2$/NDF:2138485.3/23

All: 68.254+/-0.010 $\chi^2$/NDF: 3525855.7/45




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 311.239+/-114.972 $\chi^2$/NDF:0.8/5

Right Out: -136.579+/-68.322 $\chi^2$/NDF: 12.9/17

Left In: 261.242+/-104.884 $\chi^2$/NDF:1.3/5

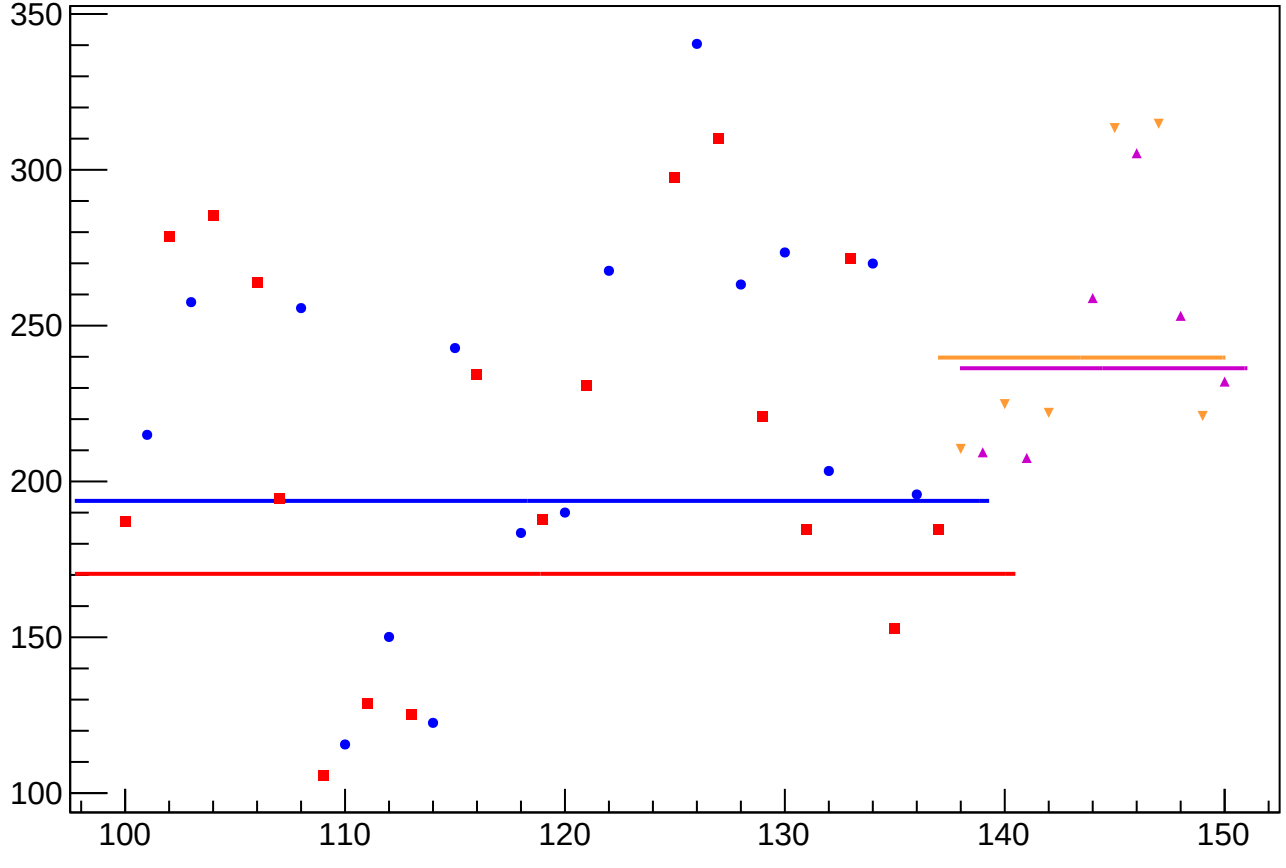
Left: 283.951+/-77.486 $\chi^2$/NDF: 2.2/11

Right: -95.728+/-50.868 $\chi^2$/NDF: 29.1/33

In: 60.850+/-61.647 $\chi^2$/NDF:22.3/21

Out: -19.710+/-58.734 $\chi^2$/NDF:24.9/23

All: 18.622+/-42.524 $\chi^2$/NDF: 48.1/45




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 239.756+/-0.081 $\chi^2$/NDF:236394.2/5

Right Out: 170.358+/-0.048 $\chi^2$/NDF: 1599025.1/17

Left In: 236.333+/-0.074 $\chi^2$/NDF:172534.4/5

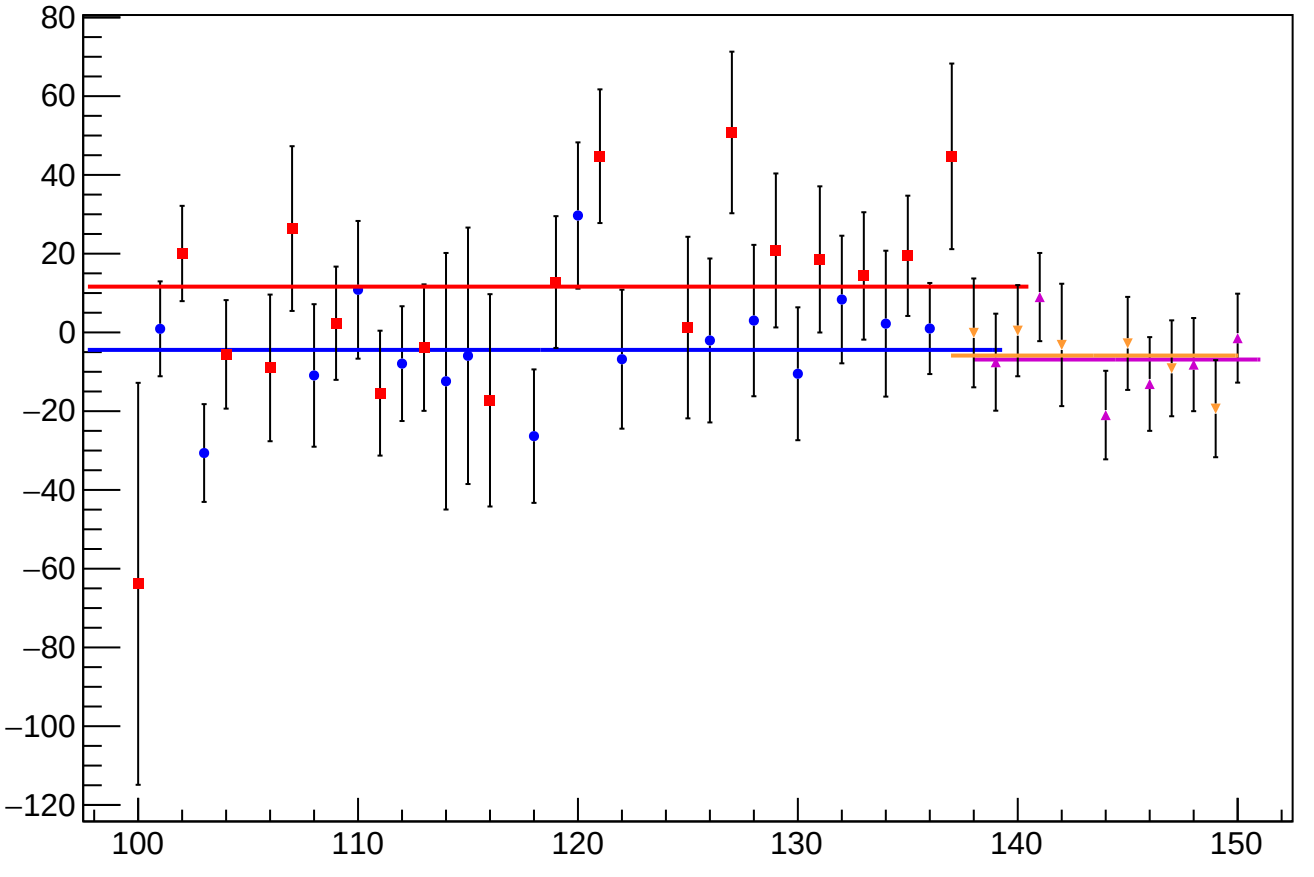
Left: 237.888+/-0.055 $\chi^2$/NDF: 409895.9/11

Right: 180.791+/-0.036 $\chi^2$/NDF: 2751765.9/33

In: 208.473+/-0.044 $\chi^2$/NDF:1436238.4/21

Out: 188.469+/-0.042 $\chi^2$/NDF:2373938.2/23

All: 197.987+/-0.030 $\chi^2$/NDF: 3920563.3/45




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: -5.876+/-5.176 $\chi^2$/NDF:1.8/5

Right Out: 11.627+/-4.137 $\chi^2$/NDF: 21.6/17

Left In: -6.885+/-4.739 $\chi^2$/NDF:4.1/5

Left: -6.425+/-3.495 $\chi^2$/NDF: 6.0/11

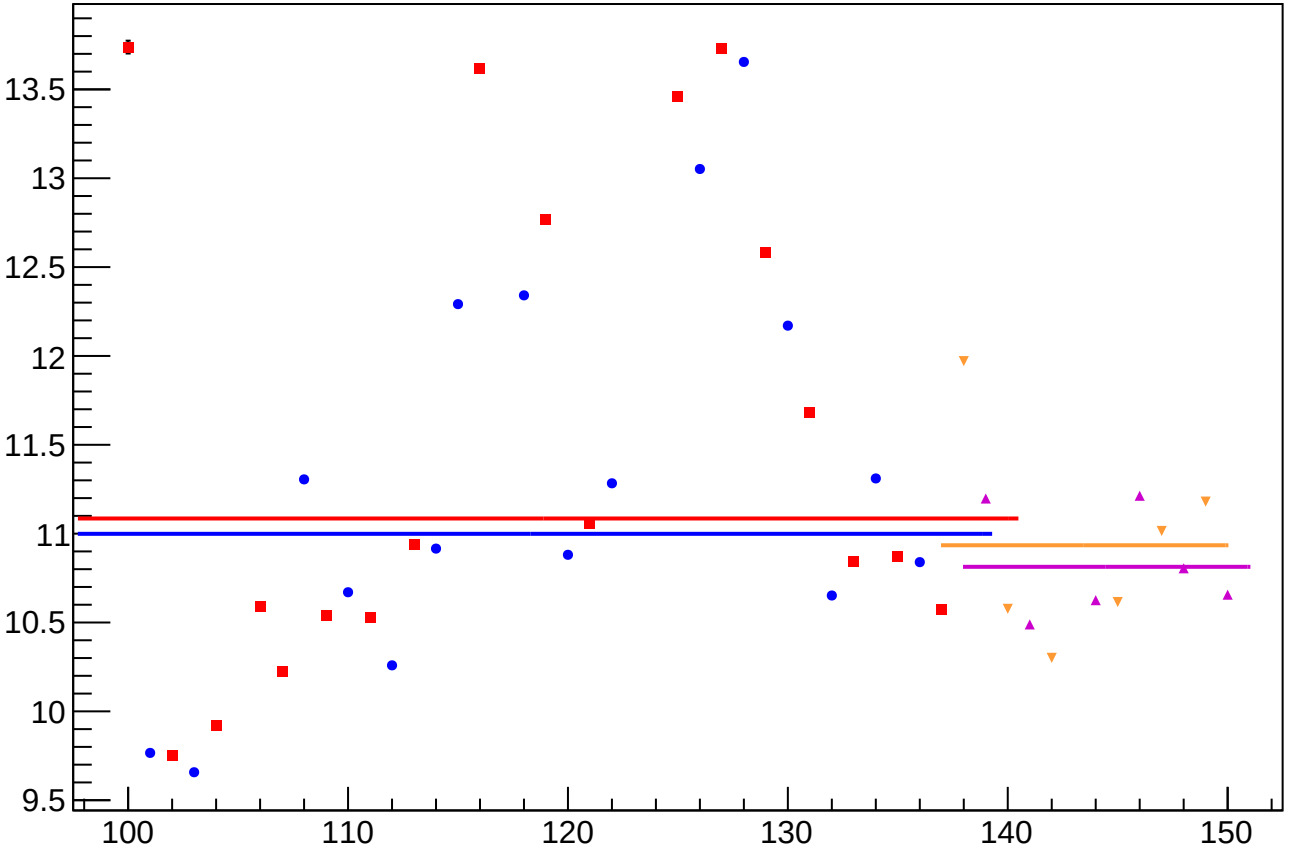
Right: 3.582+/-2.923 $\chi^2$/NDF: 41.2/33

In: -5.496+/-3.114 $\chi^2$/NDF:16.2/21

Out: 4.805+/-3.231 $\chi^2$/NDF:30.5/23

All: -0.536+/-2.242 $\chi^2$/NDF: 52.0/45

# asym_bcm_an_us_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 10.999+/-0.003 $\chi^2$/NDF: 136159.2/15

Left Out: 10.935+/-0.004 $\chi^2$/NDF:18817.8/5

Right Out: 11.085+/-0.003 $\chi^2$/NDF: 162204.2/17

Left In: 10.813+/-0.003 $\chi^2$/NDF:6825.3/5

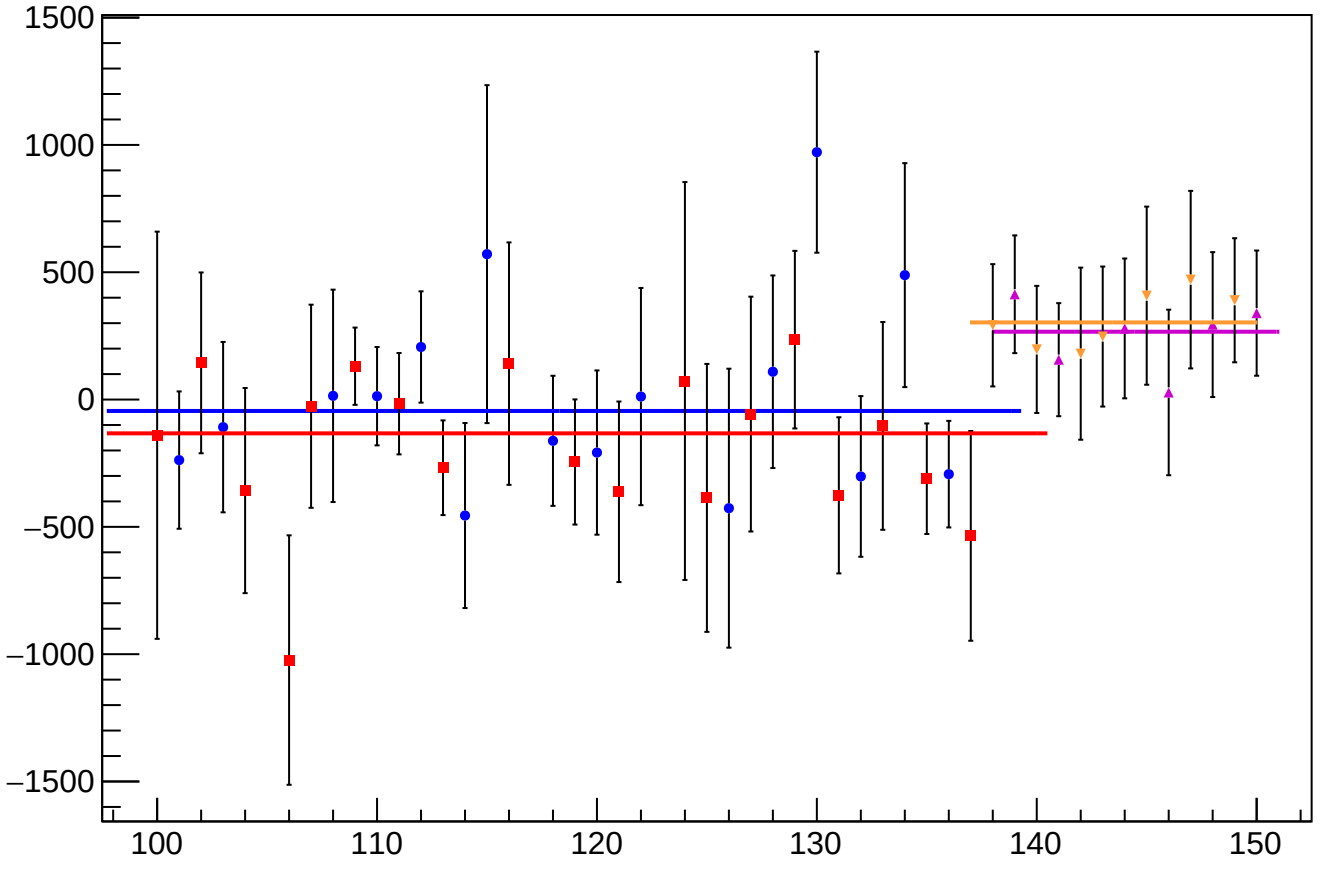
Left: 10.869+/-0.002 $\chi^2$/NDF: 26240.6/11

Right: 11.042+/-0.002 $\chi^2$/NDF: 298798.9/33

In: 10.919+/-0.002 $\chi^2$/NDF:144728.8/21

Out: 11.027+/-0.002 $\chi^2$/NDF:182055.6/23

All: 10.971+/-0.002 $\chi^2$/NDF: 327936.8/45




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 302.935+/-106.226 $\chi^2$/NDF:0.8/6

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 266.343+/-105.062 $\chi^2$/NDF:1.3/5

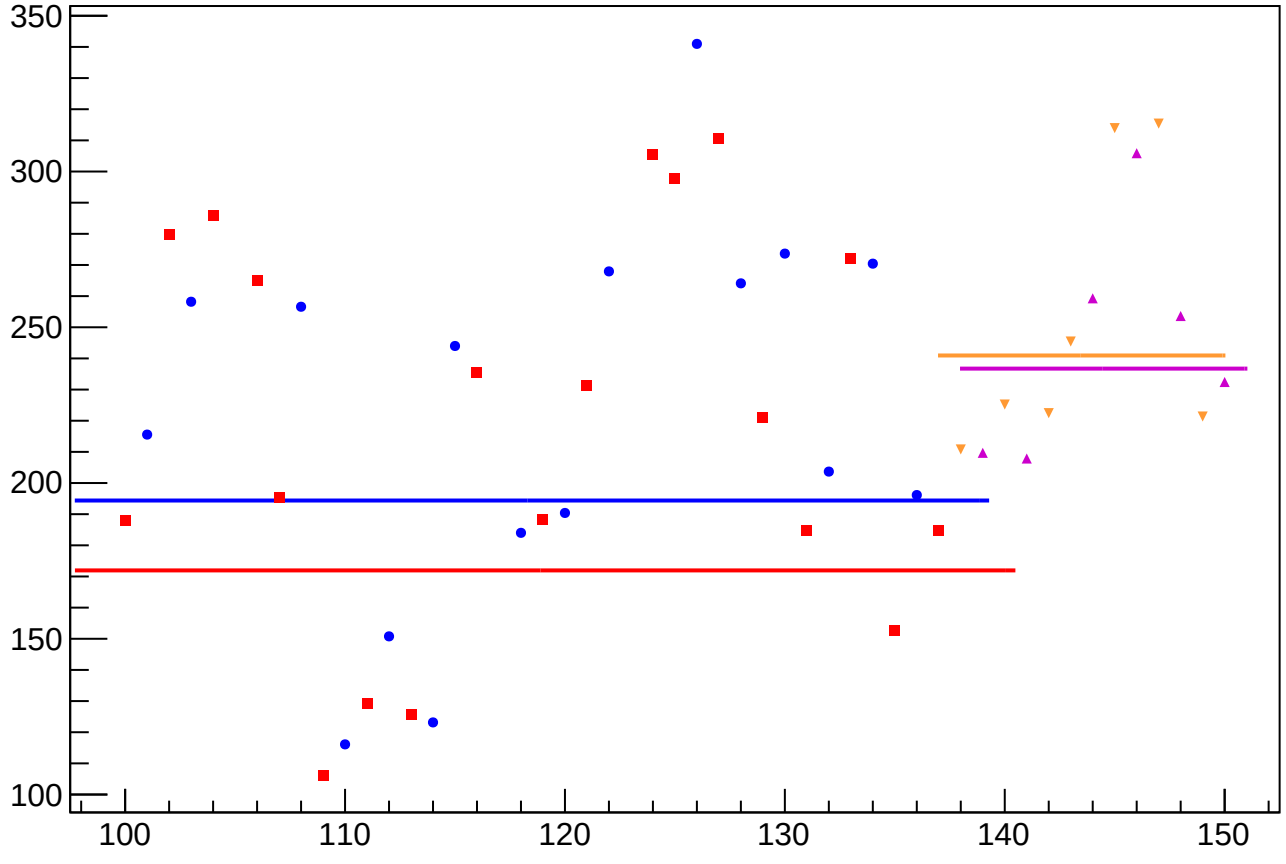
Left: 284.437+/-74.698 $\chi^2$/NDF: 2.2/12

Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 62.868+/-61.802 $\chi^2$/NDF:22.4/21

Out: -5.382+/-57.431 $\chi^2$/NDF:25.6/25

All: 26.245+/-42.071 $\chi^2$/NDF: 48.7/47




Right In: 194.385+/-0.054 $\chi^2$/NDF: 1042024.1/15

Left Out: 240.946+/-0.075 $\chi^2$/NDF:237241.1/6

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 236.730+/-0.074 $\chi^2$/NDF:172729.7/5

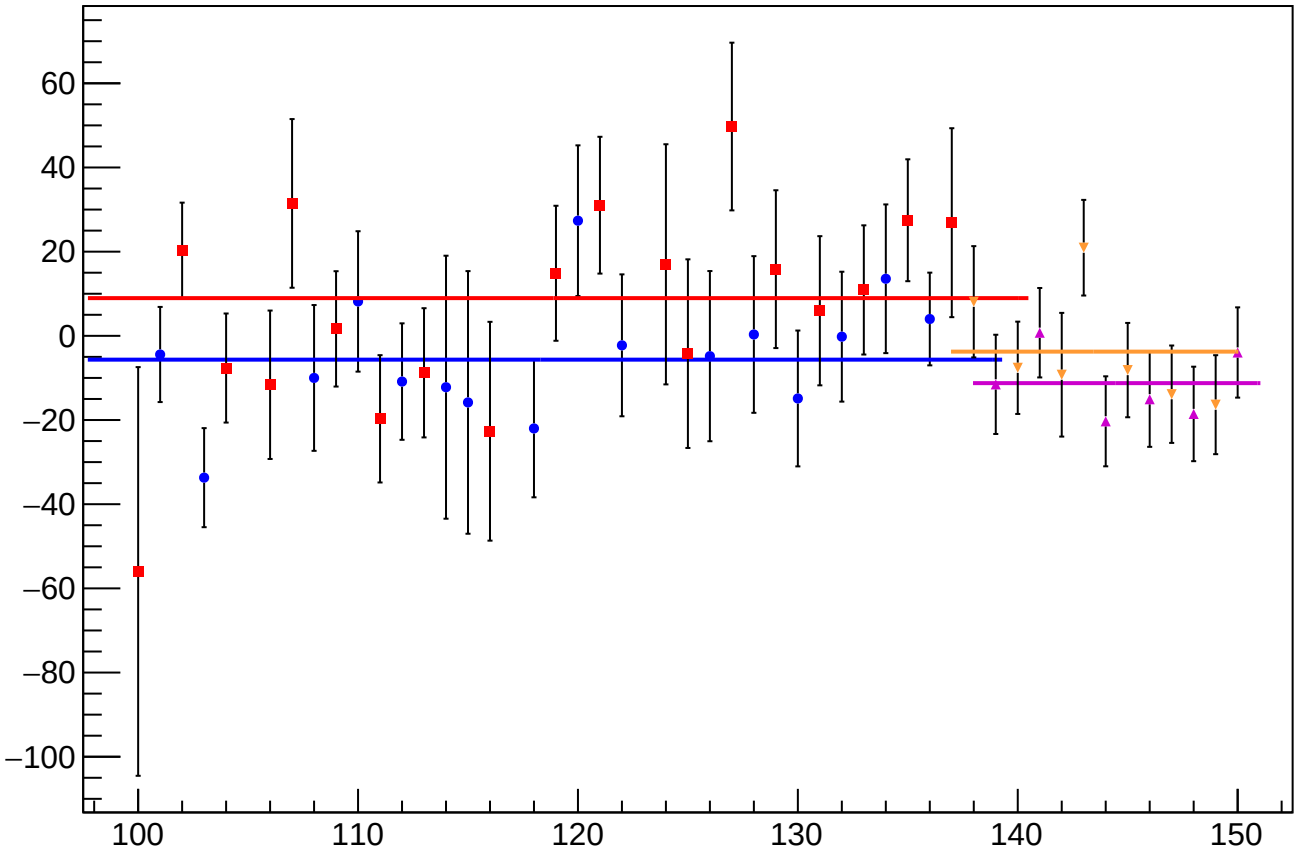
Left: 238.815+/-0.053 $\chi^2$/NDF: 411563.5/12

Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 209.038+/-0.044 $\chi^2$/NDF:1427223.5/21

Out: 192.117+/-0.041 $\chi^2$/NDF:2485729.0/25

All: 199.958+/-0.030 $\chi^2$/NDF: 3993400.1/47




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: -3.751+/-4.514 $\chi^2$/NDF:7.9/6

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -11.236+/-4.506 $\chi^2$/NDF:3.0/5

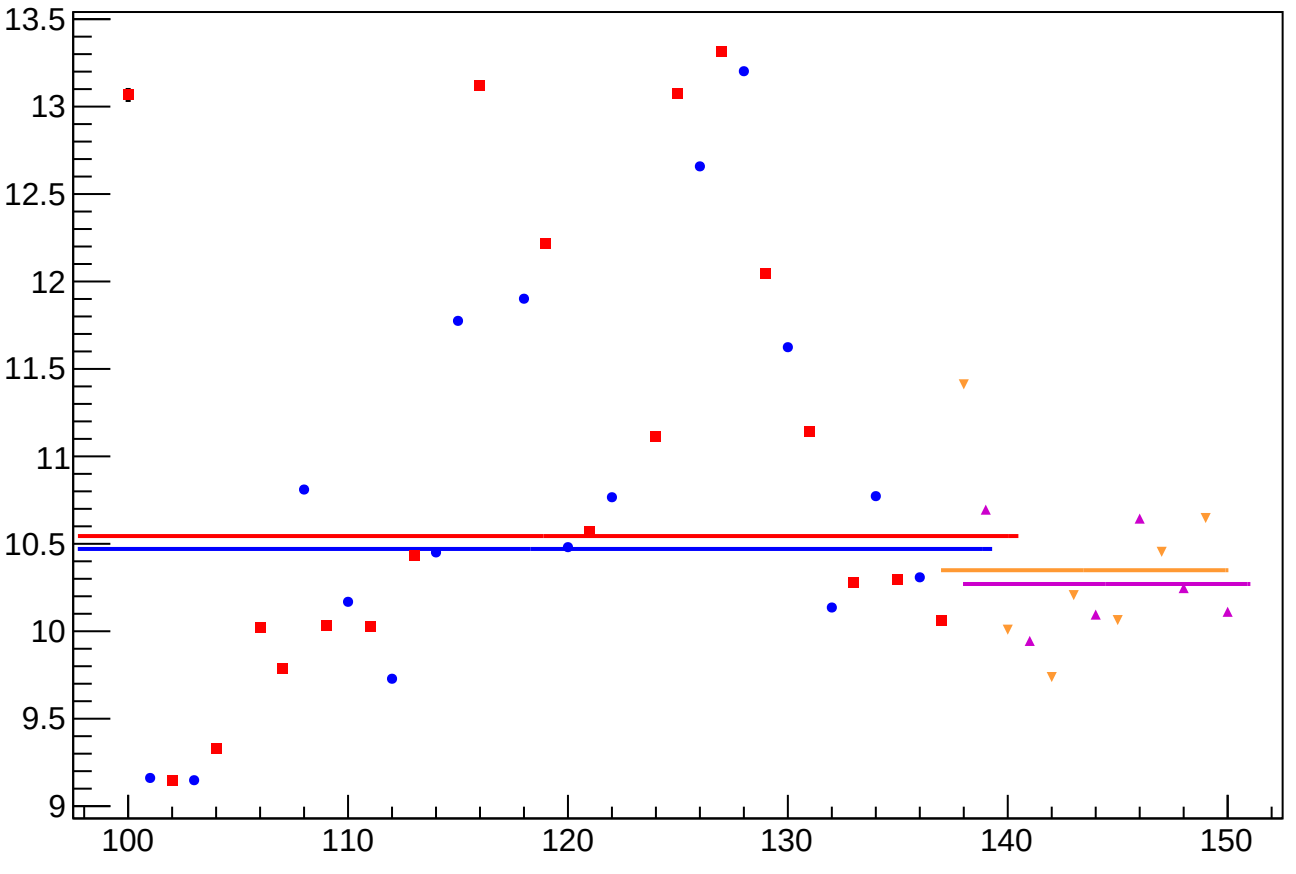
Left: -7.500+/-3.189 $\chi^2$/NDF: 12.2/12

Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -8.074+/-2.966 $\chi^2$/NDF:17.5/21

Out: 3.525+/-2.951 $\chi^2$/NDF:35.2/25

All: -2.246+/-2.092 $\chi^2$/NDF: 60.4/47




Right In: 10.471+/-0.003 $\chi^2$/NDF: 157365.8/15

Left Out: 10.349+/-0.003 $\chi^2$/NDF:21377.8/6

Right Out: 10.544+/-0.003 $\chi^2$/NDF: 186780.3/18

Left In: 10.270+/-0.003 $\chi^2$/NDF:7646.6/5

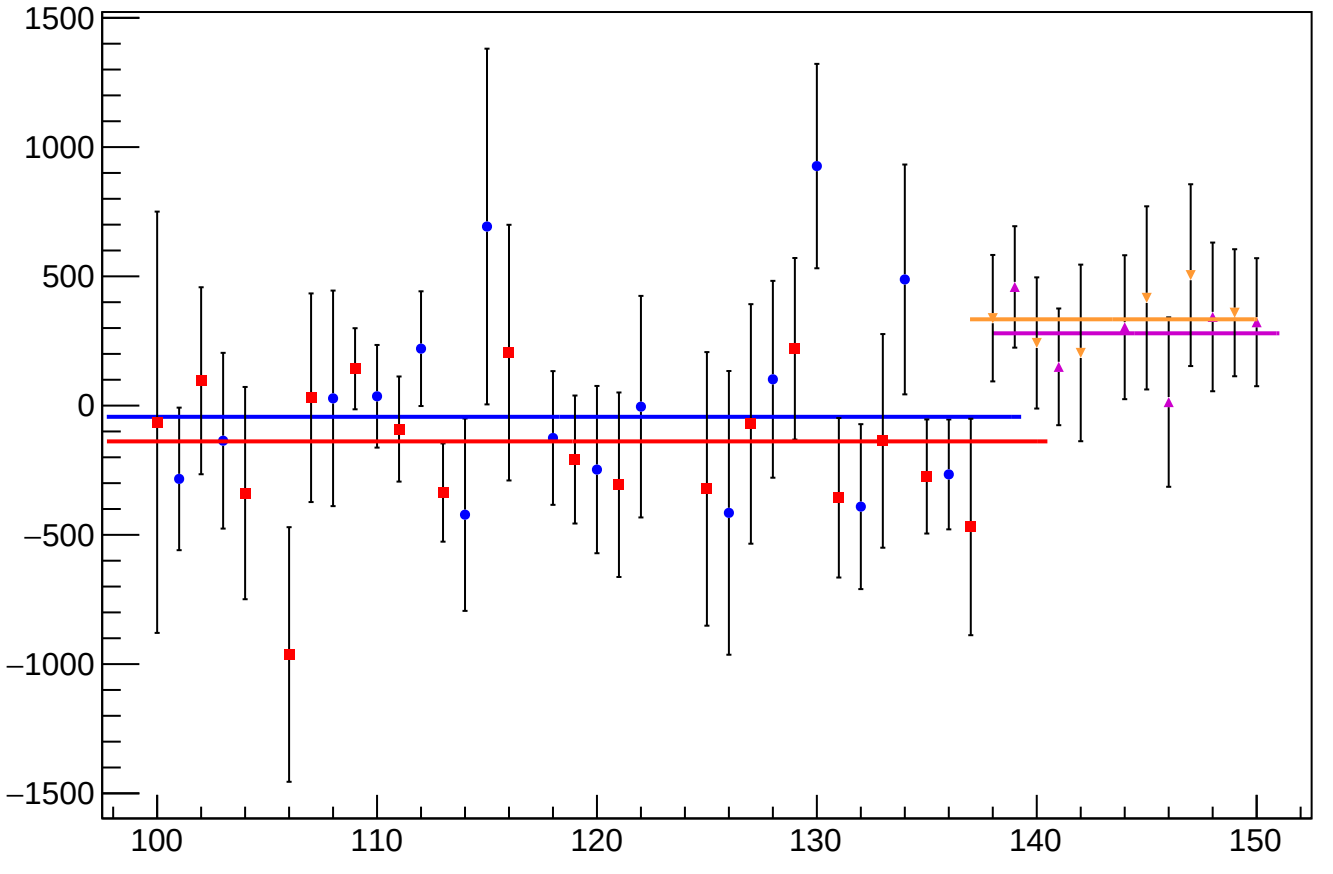
Left: 10.310+/-0.002 $\chi^2$/NDF: 29329.3/12

Right: 10.508+/-0.002 $\chi^2$/NDF: 344500.1/34

In: 10.384+/-0.002 $\chi^2$/NDF:167253.5/21

Out: 10.461+/-0.002 $\chi^2$/NDF:210303.0/25

All: 10.423+/-0.001 $\chi^2$/NDF: 378234.2/47




Right In: -43.384+/-77.584 $\chi^2$/NDF: 15.5/15

Left Out: 333.823+/-116.692 $\chi^2$/NDF:0.6/5

Right Out: -138.455+/-69.833 $\chi^2$/NDF: 11.5/17

Left In: 279.673+/-106.382 $\chi^2$/NDF:1.7/5

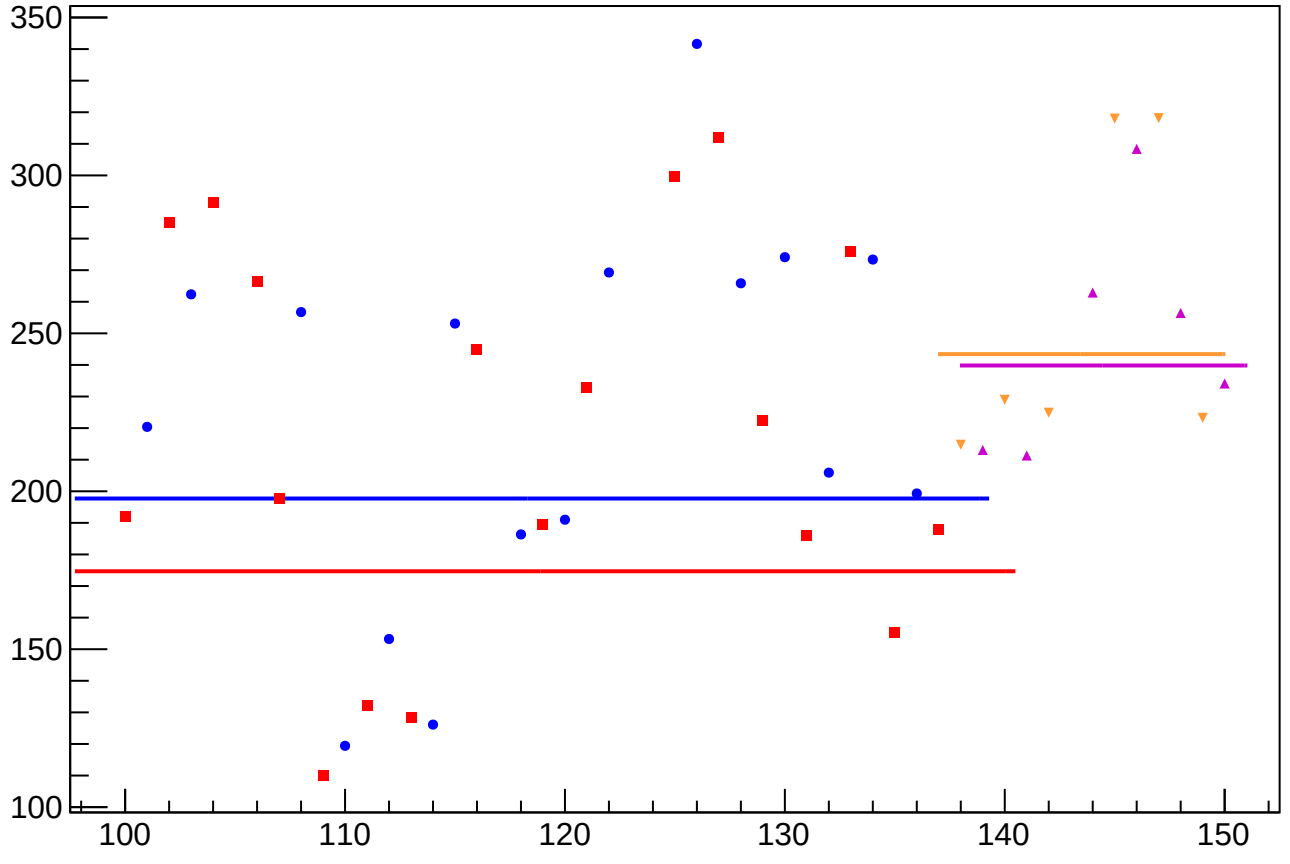
Left: 304.251+/-78.616 $\chi^2$/NDF: 2.4/11

Right: -95.904+/-51.904 $\chi^2$/NDF: 27.7/33

In: 68.783+/-62.685 $\chi^2$/NDF:23.1/21

Out: -13.918+/-59.923 $\chi^2$/NDF:24.1/23

All: 25.570+/-43.315 $\chi^2$/NDF: 48.1/45




Right In: 197.707+/-0.055 $\chi^2$/NDF: 1000324.6/15

Left Out: 243.427+/-0.083 $\chi^2$/NDF:232285.9/5

Right Out: 174.679+/-0.049 $\chi^2$/NDF: 1534751.1/17

Left In: 239.827+/-0.075 $\chi^2$/NDF:166854.1/5

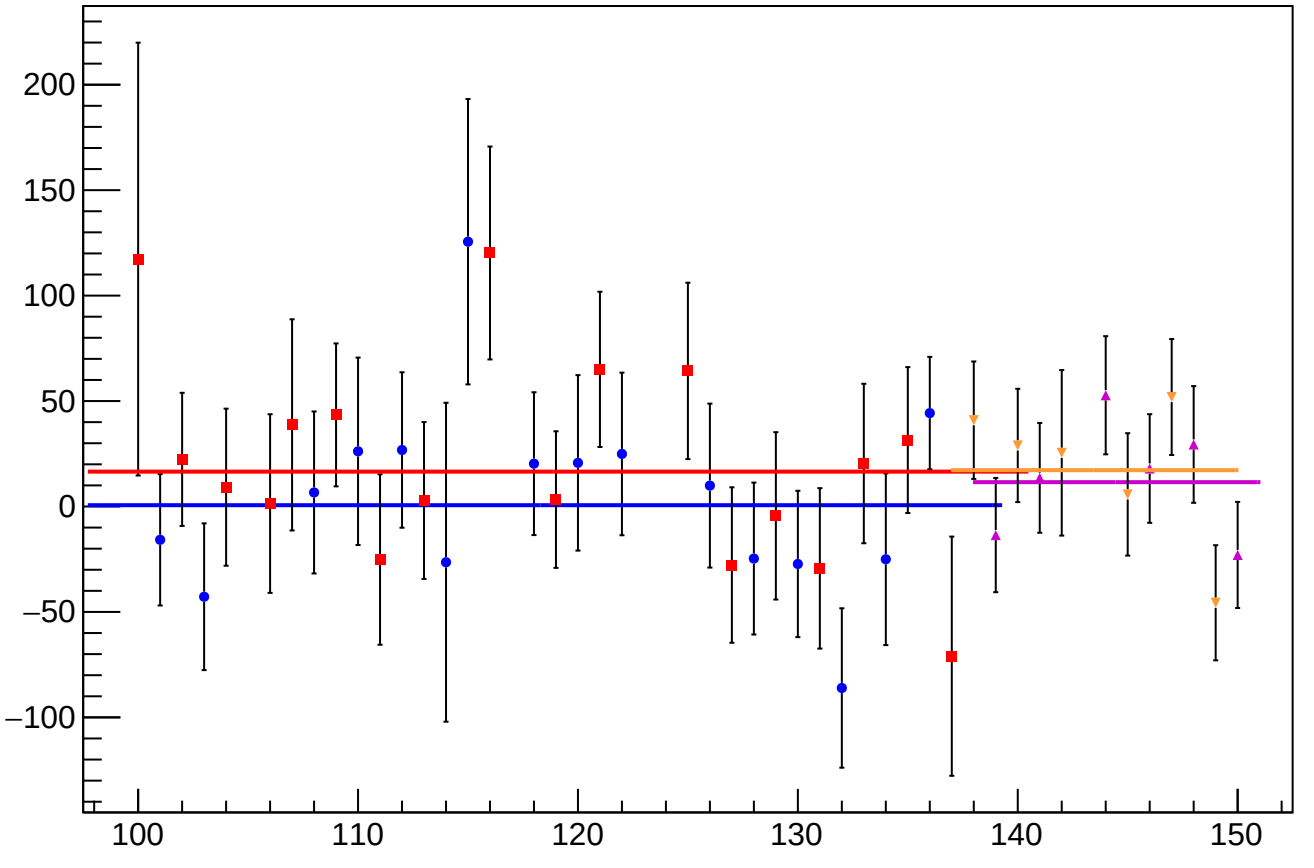
Left: 241.461+/-0.056 $\chi^2$/NDF: 400179.9/11

Right: 184.986+/-0.037 $\chi^2$/NDF: 2632415.9/33

In: 212.331+/-0.044 $\chi^2$/NDF:1371837.8/21

Out: 192.807+/-0.042 $\chi^2$/NDF:2278165.9/23

All: 202.130+/-0.031 $\chi^2$/NDF: 3751380.0/45




Right In: 0.619+/-9.421 $\chi^2$/NDF: 16.7/15

Left Out: 17.232+/-11.804 $\chi^2$/NDF:8.0/5

Right Out: 16.534+/-9.307 $\chi^2$/NDF: 16.4/17

Left In: 11.536+/-10.842 $\chi^2$/NDF:5.4/5

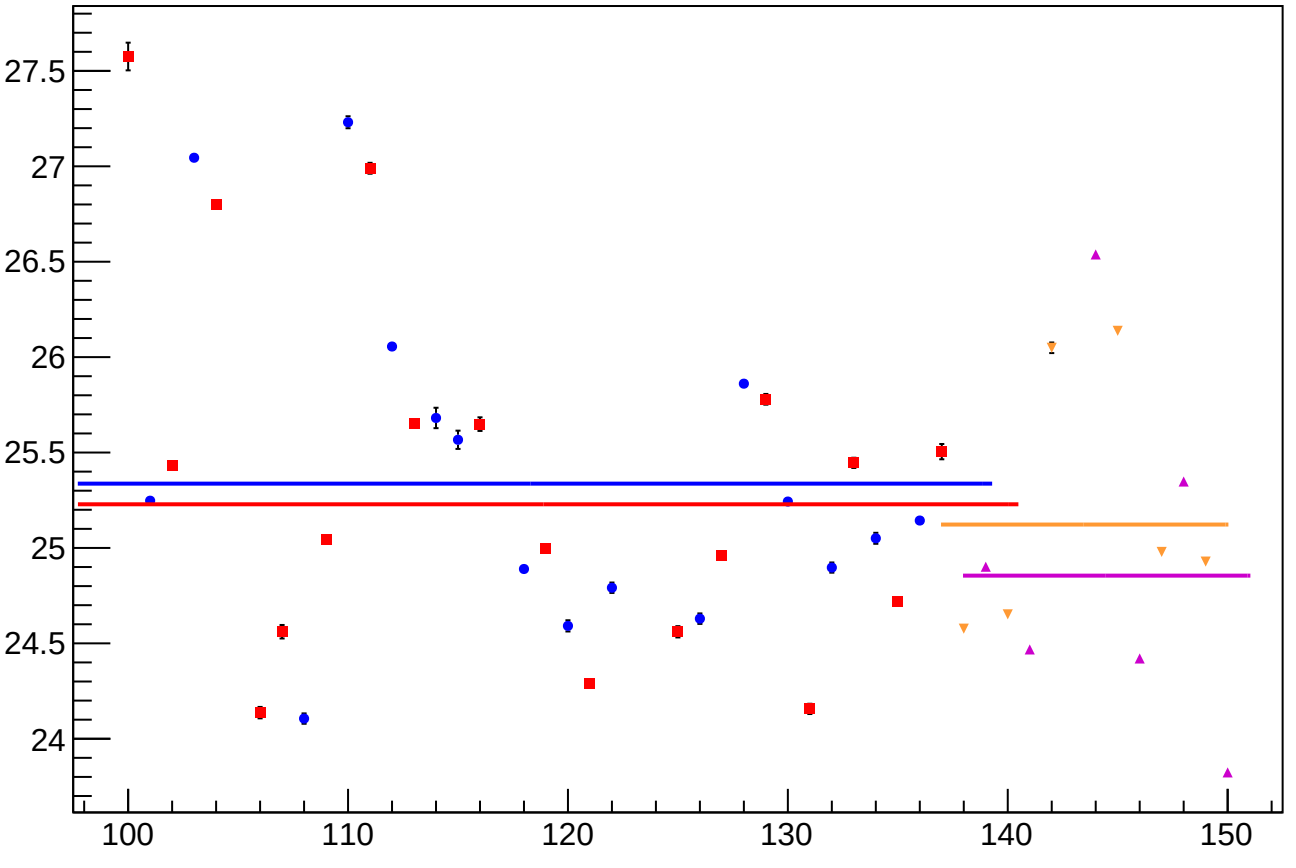
Left: 14.142+/-7.985 $\chi^2$/NDF: 13.5/11

Right: 8.674+/-6.621 $\chi^2$/NDF: 34.6/33

In: 5.316+/-7.112 $\chi^2$/NDF:22.7/21

Out: 16.802+/-7.308 $\chi^2$/NDF:24.4/23

All: 10.902+/-5.097 $\chi^2$/NDF: 48.4/45




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.123+/-0.008 $\chi^2$/NDF:5098.8/5

Right Out: 25.229+/-0.007 $\chi^2$/NDF: 15176.1/17

Left In: 24.855+/-0.008 $\chi^2$/NDF:12233.3/5

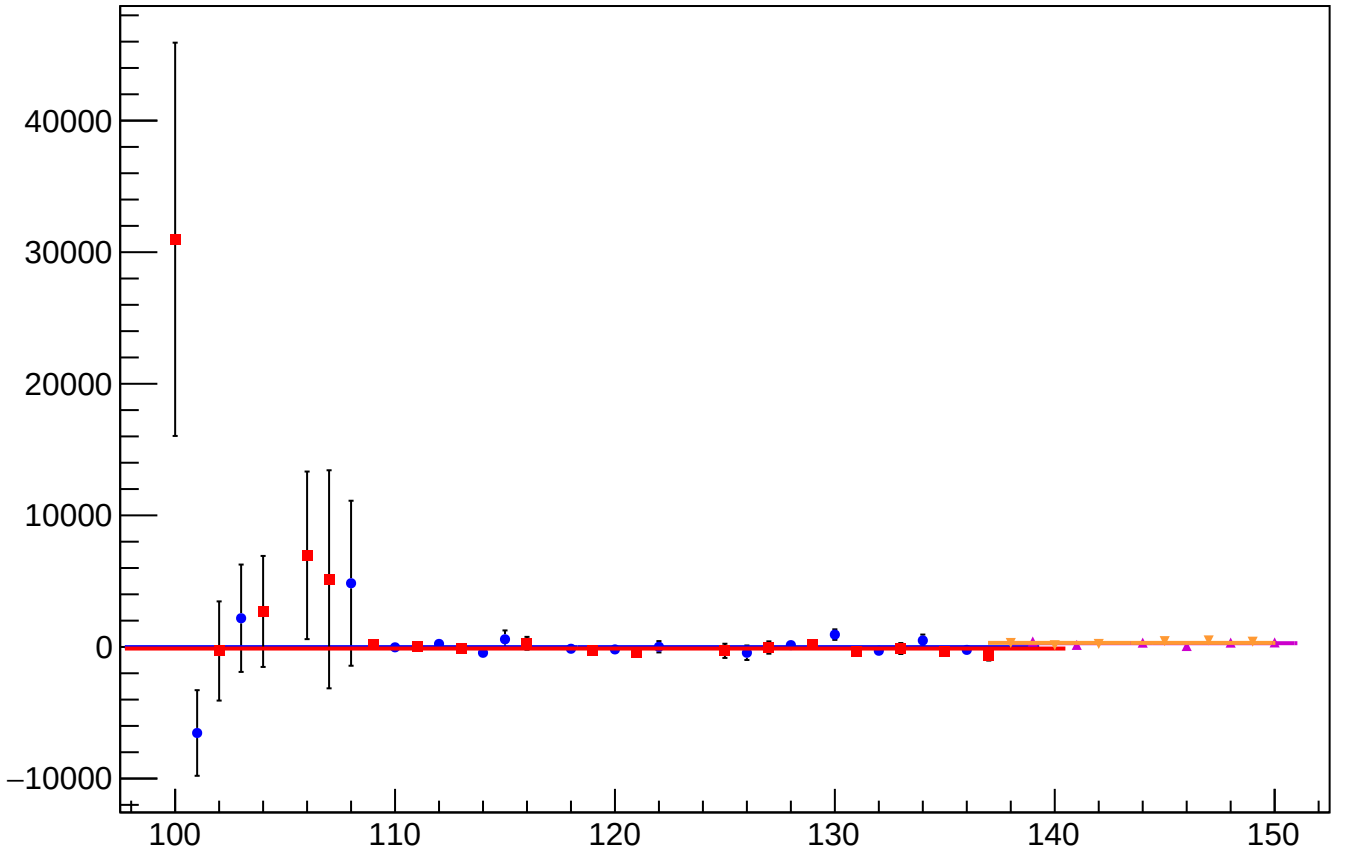
Left: 24.977+/-0.006 $\chi^2$/NDF: 17890.0/11

Right: 25.282+/-0.005 $\chi^2$/NDF: 29624.6/33

In: 25.130+/-0.005 $\chi^2$/NDF:28801.4/21

Out: 25.188+/-0.005 $\chi^2$/NDF:20374.6/23

All: 25.158+/-0.004 $\chi^2$/NDF: 49241.8/45




Right In: -13.160+/-84.454 $\chi^2$/NDF: 18.3/15

Left Out: 309.924+/-117.326 $\chi^2$/NDF:1.1/5

Right Out: -119.984+/-78.247 $\chi^2$/NDF: 14.4/17

Left In: 285.232+/-107.208 $\chi^2$/NDF:1.2/5

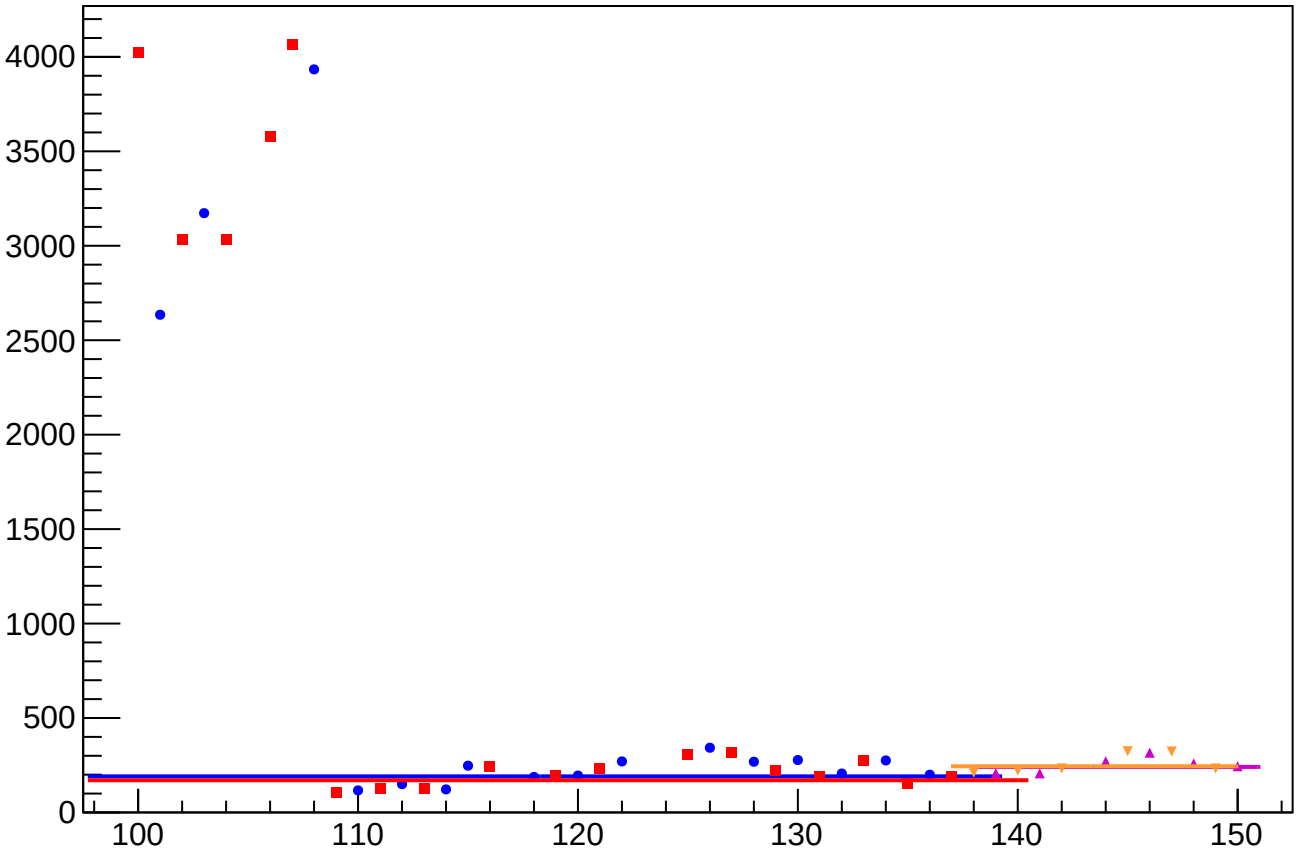
Left: 296.468+/-79.143 $\chi^2$/NDF: 2.3/11

Right: -70.641+/-57.398 $\chi^2$/NDF: 33.6/33

In: 101.103+/-66.342 $\chi^2$/NDF:24.3/21

Out: 12.365+/-65.098 $\chi^2$/NDF:24.8/23

All: 55.895+/-46.465 $\chi^2$/NDF: 50.0/45




Right In: 191.070+/-0.060 $\chi^2$/NDF: 3833952.4/15

Left Out: 244.366+/-0.083 $\chi^2$/NDF:257143.9/5

Right Out: 170.494+/-0.055 $\chi^2$/NDF: 4254820.8/17

Left In: 241.031+/-0.076 $\chi^2$/NDF:218013.3/5

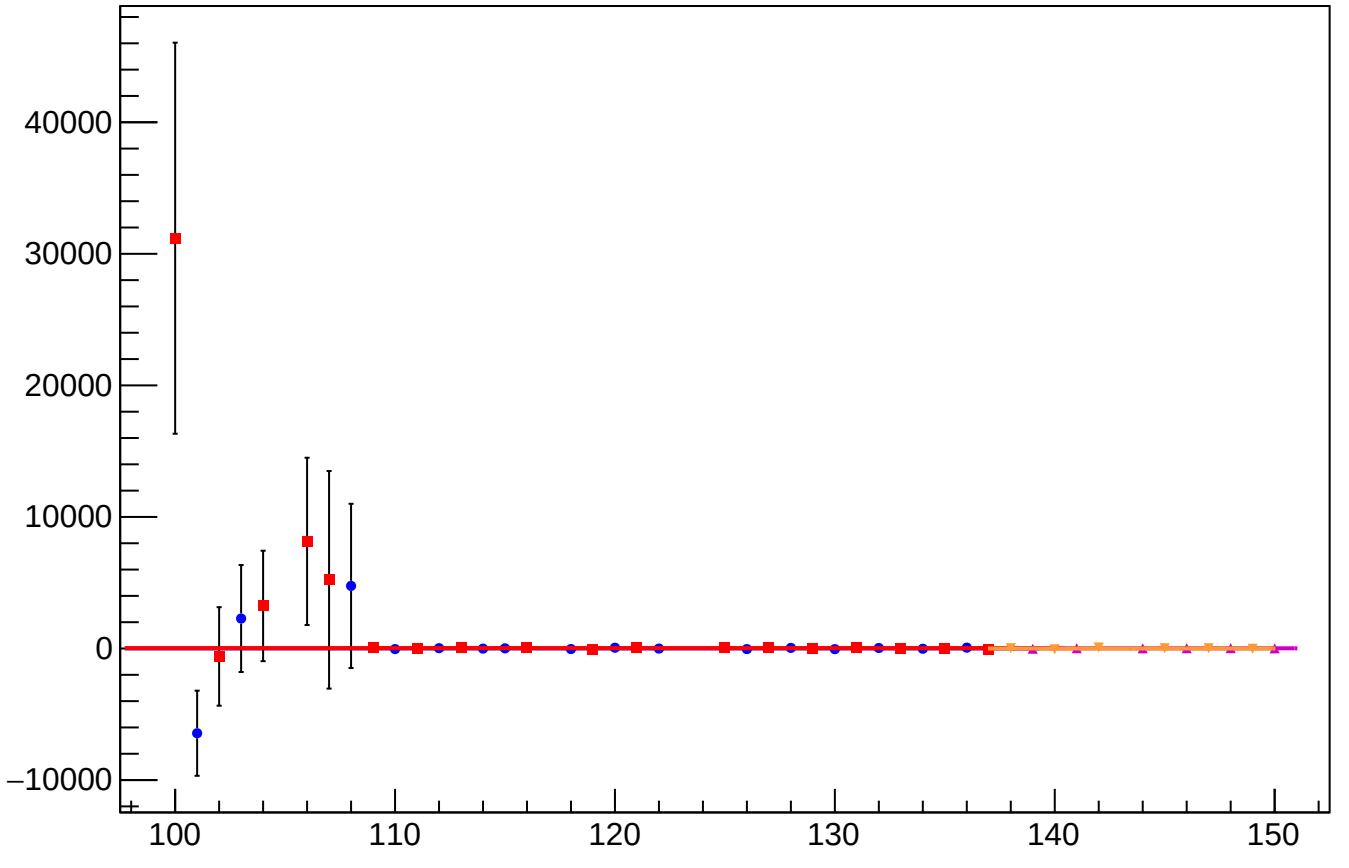
Left: 242.549+/-0.056 $\chi^2$/NDF: 476038.2/11

Right: 179.998+/-0.041 $\chi^2$/NDF: 8152654.9/33

In: 210.201+/-0.047 $\chi^2$/NDF:4319986.6/21

Out: 193.236+/-0.046 $\chi^2$/NDF:5060754.7/23

All: 201.558+/-0.033 $\chi^2$/NDF: 9447377.4/45




Right In: 6.490+/-11.764 $\chi^2$/NDF: 18.3/15

Left Out: 1.921+/-13.866 $\chi^2$/NDF:8.2/5

Right Out: 30.740+/-12.084 $\chi^2$/NDF: 19.9/17

Left In: 15.708+/-12.860 $\chi^2$/NDF:1.4/5

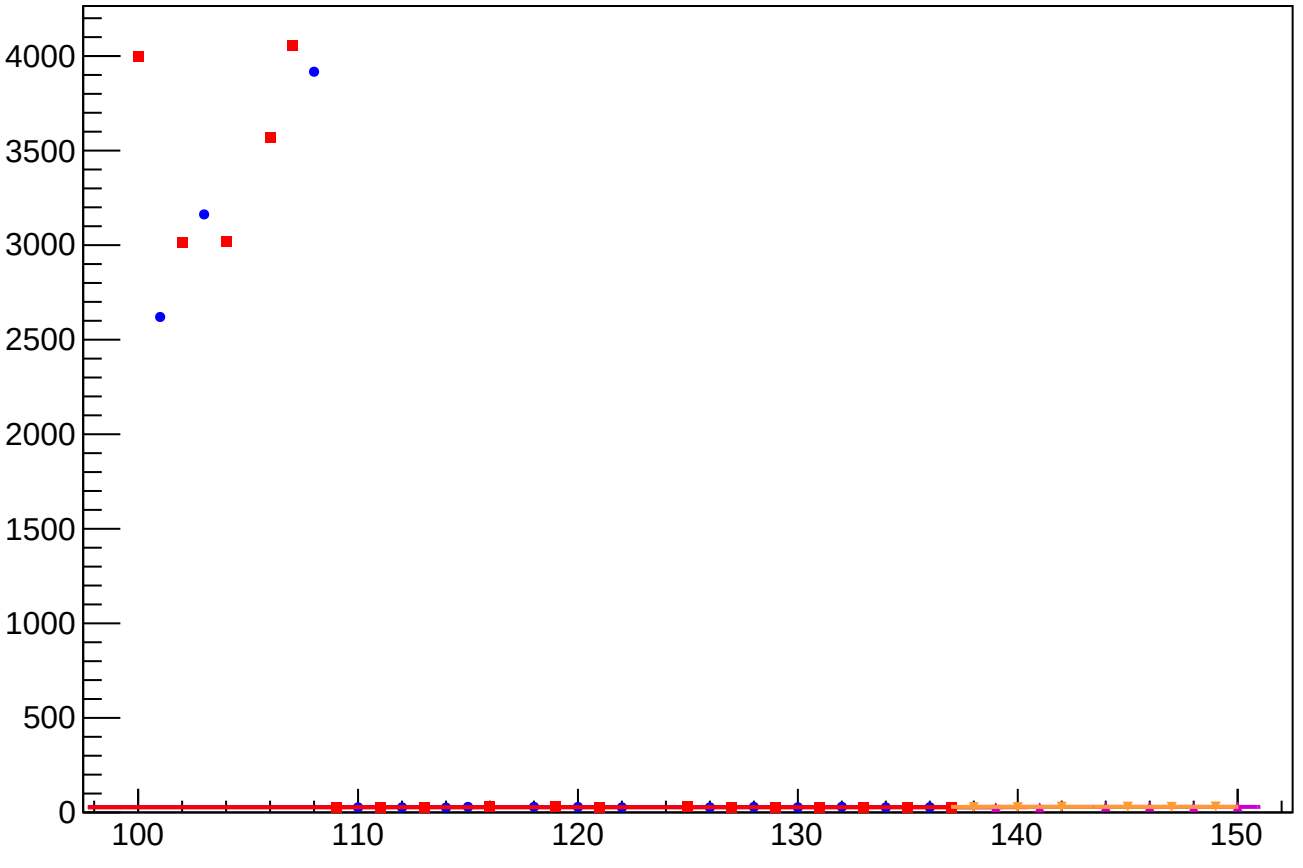
Left: 9.333+/-9.429 $\chi^2$/NDF: 10.1/11

Right: 18.290+/-8.429 $\chi^2$/NDF: 40.2/33

In: 10.690+/-8.680 $\chi^2$/NDF:20.0/21

Out: 18.300+/-9.110 $\chi^2$/NDF:30.5/23

All: 14.311+/-6.284 $\chi^2$/NDF: 50.9/45




Right In: 27.825+/-0.008 $\chi^2$/NDF: 3265895.3/15

Left Out: 29.434+/-0.010 $\chi^2$/NDF:13051.0/5

Right Out: 27.778+/-0.009 $\chi^2$/NDF: 3558398.6/17

Left In: 29.422+/-0.009 $\chi^2$/NDF:33748.4/5

Left: 29.427+/-0.007 $\chi^2$/NDF: 46800.1/11

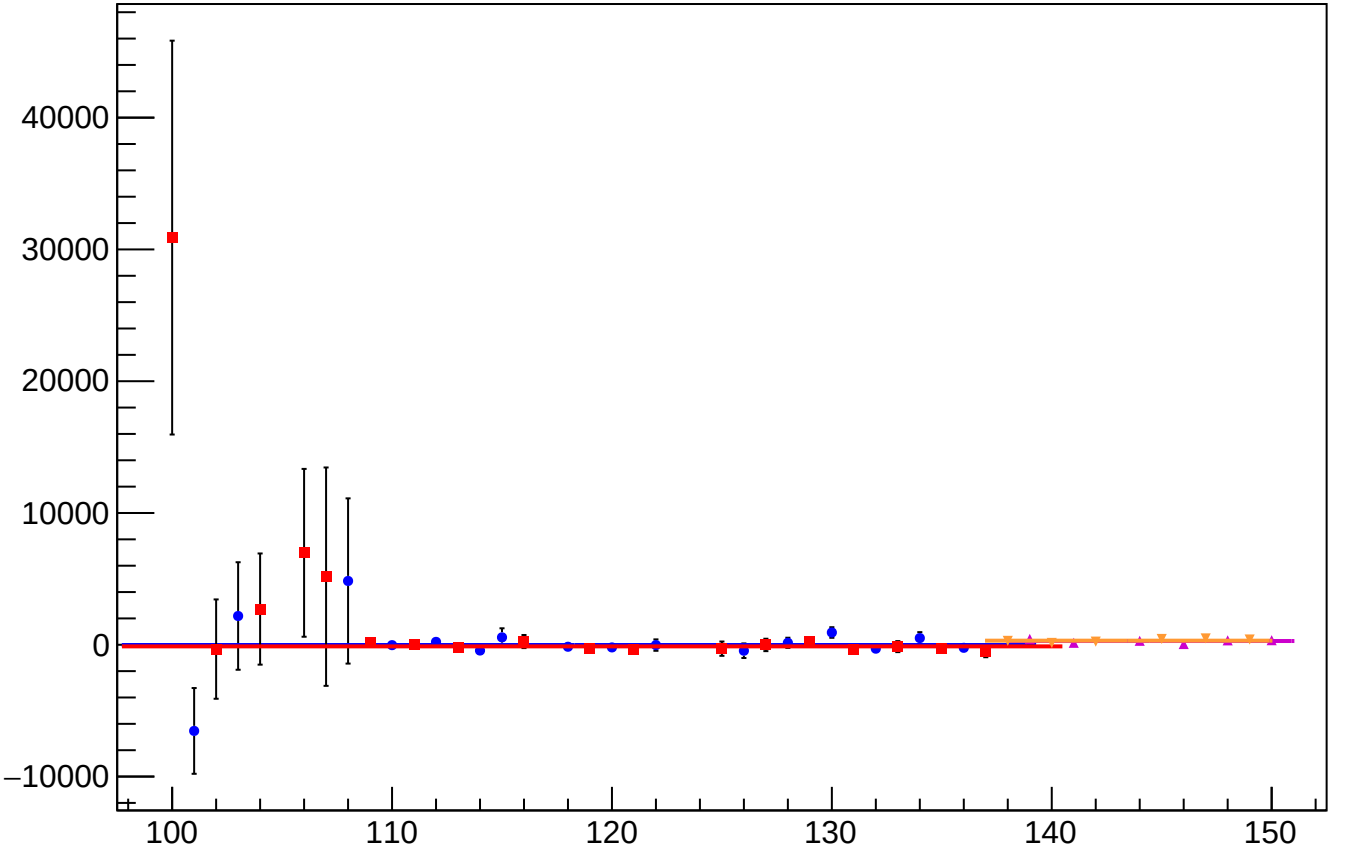
Right: 27.802+/-0.006 $\chi^2$/NDF: 6824309.2/33

In: 28.552+/-0.006 $\chi^2$/NDF:3316437.8/21

Out: 28.493+/-0.006 $\chi^2$/NDF:3587650.5/23

All: 28.524+/-0.004 $\chi^2$/NDF: 6904133.3/45

asym_bcm_cav4cQ_dg_ds_avg_mean vs Slug, Sign Corrected




Right In: -19.522+/-85.063 $\chi^2$/NDF: 18.2/15

Left Out: 311.663+/-117.825 $\chi^2$/NDF:1.0/5

Right Out: -121.544+/-78.844 $\chi^2$/NDF: 13.2/17

Left In: 285.496+/-107.757 $\chi^2$/NDF:1.4/5

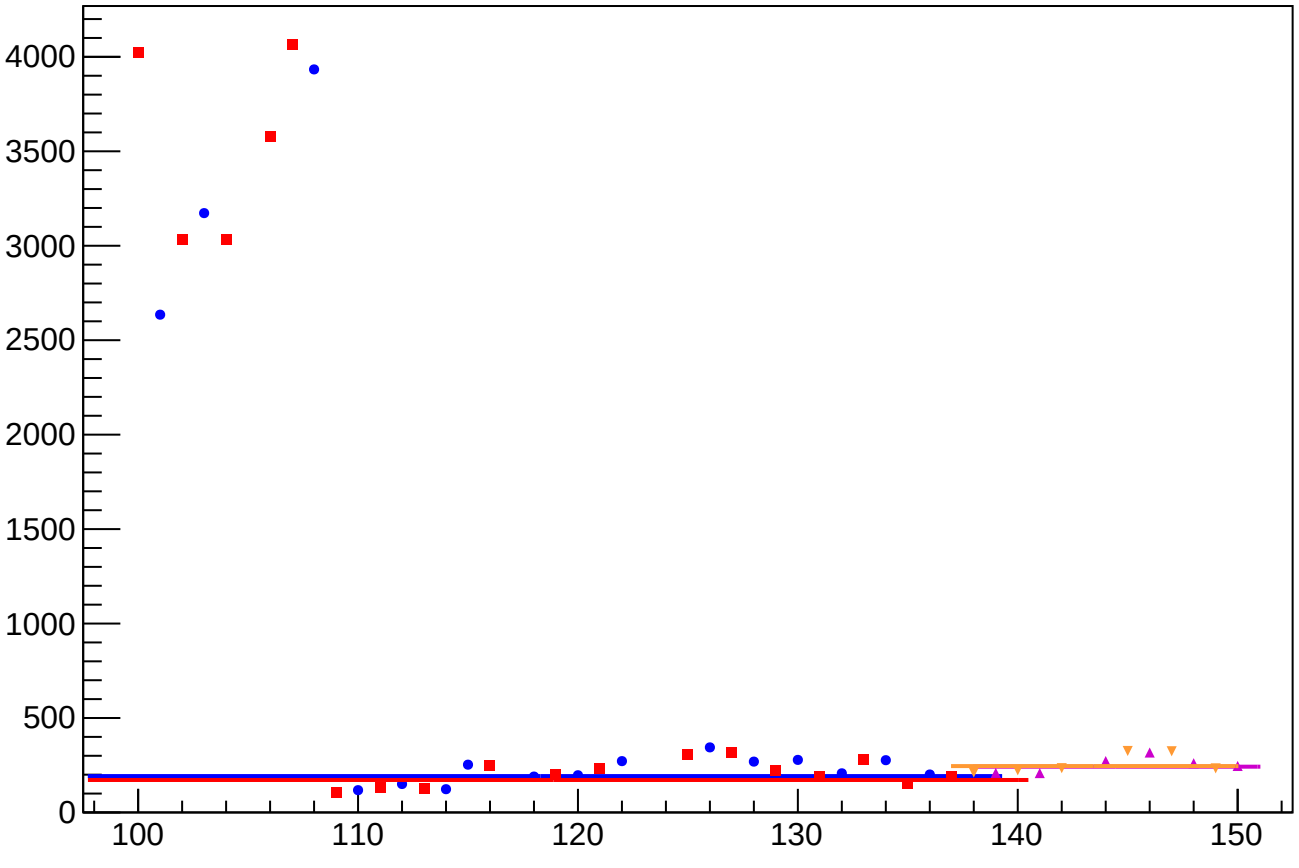
Left: 297.414+/-79.517 $\chi^2$/NDF: 2.4/11

Right: -74.398+/-57.825 $\chi^2$/NDF: 32.2/33

In: 97.579+/-66.767 $\chi^2$/NDF:24.5/21

Out: 12.440+/-65.527 $\chi^2$/NDF:23.6/23

All: 54.212+/-46.767 $\chi^2$/NDF: 48.9/45




Right In: 192.560+/-0.060 $\chi^2$/NDF: 3822789.1/15

Left Out: 245.421+/-0.083 $\chi^2$/NDF:256251.9/5

Right Out: 171.899+/-0.056 $\chi^2$/NDF: 4247800.5/17

Left In: 242.307+/-0.076 $\chi^2$/NDF:215156.2/5

Left: 243.725+/-0.056 $\chi^2$/NDF: 472168.8/11

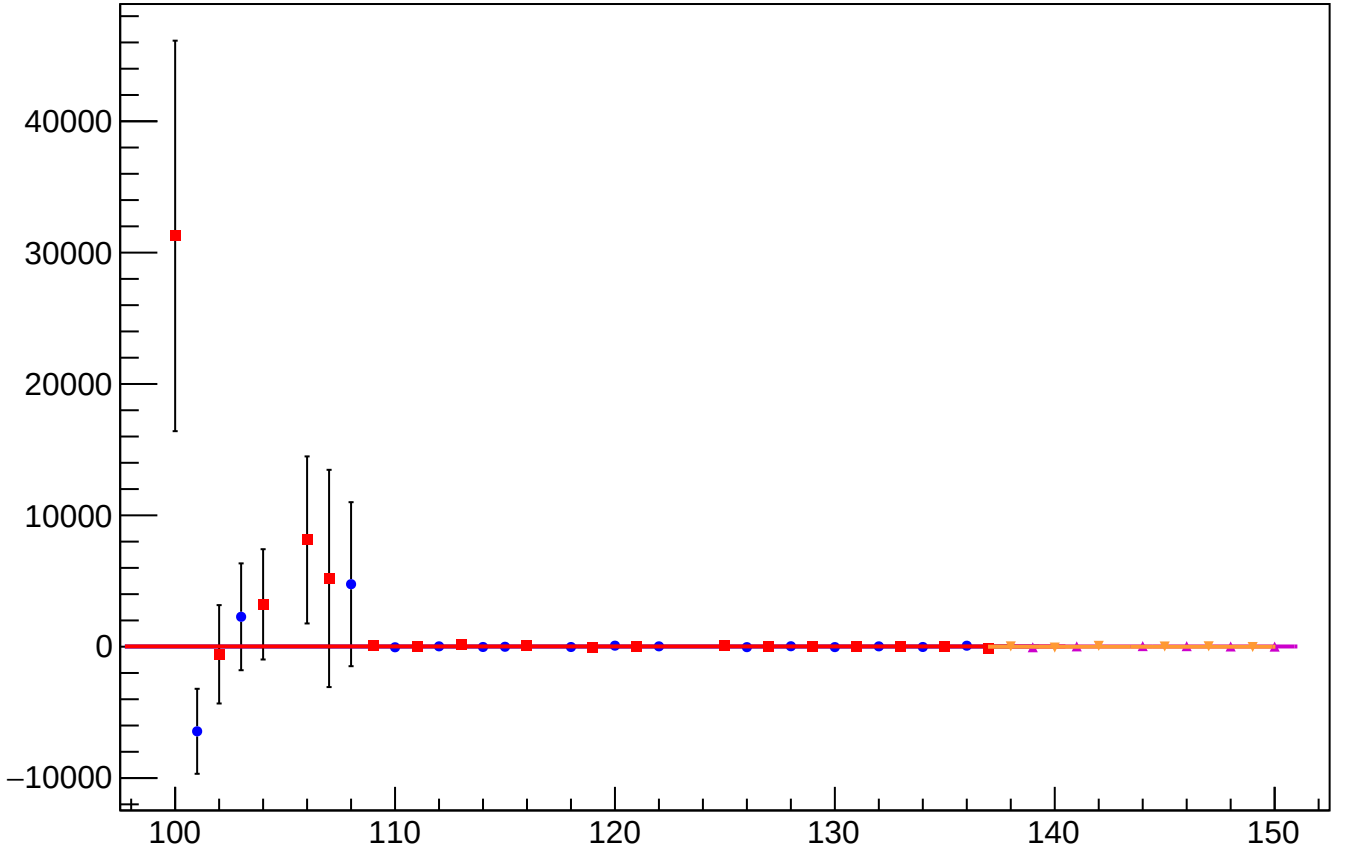
Right: 181.447+/-0.041 $\chi^2$/NDF: 8134058.4/33

In: 211.659+/-0.047 $\chi^2$/NDF:4300559.2/21

Out: 194.638+/-0.046 $\chi^2$/NDF:5041940.8/23

All: 202.989+/-0.033 $\chi^2$/NDF: 9408705.6/45

asym_bcm_cav4cQ_dg_ds_dd_mean vs Slug, Sign Corrected




Right In: 13.713+/-13.062 $\chi^2$/NDF: 15.5/15

Left Out: 0.342+/-15.074 $\chi^2$/NDF:7.3/5

Right Out: 21.906+/-13.382 $\chi^2$/NDF: 28.4/17

Left In: 17.032+/-13.920 $\chi^2$/NDF:4.4/5

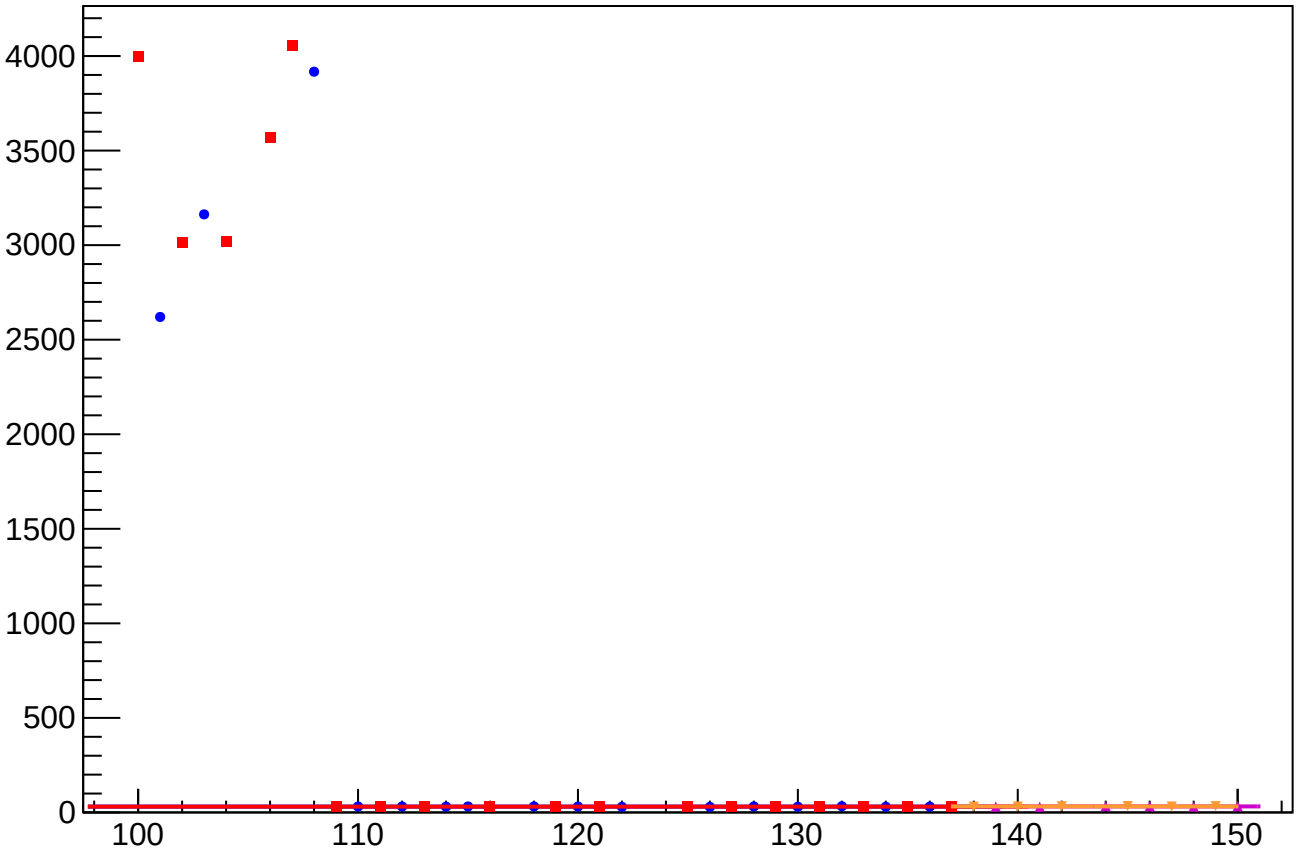
Left: 9.350+/-10.227 $\chi^2$/NDF: 12.3/11

Right: 17.710+/-9.347 $\chi^2$/NDF: 44.0/33

In: 15.267+/-9.525 $\chi^2$/NDF:19.9/21

Out: 12.401+/-10.008 $\chi^2$/NDF:36.8/23

All: 13.905+/-6.900 $\chi^2$/NDF: 56.7/45




Right In: 30.928+/-0.009 $\chi^2$/NDF: 3252607.8/15

Left Out: 32.017+/-0.011 $\chi^2$/NDF:12633.1/5

Right Out: 30.804+/-0.009 $\chi^2$/NDF: 3535959.8/17

Left In: 31.886+/-0.010 $\chi^2$/NDF:22049.5/5

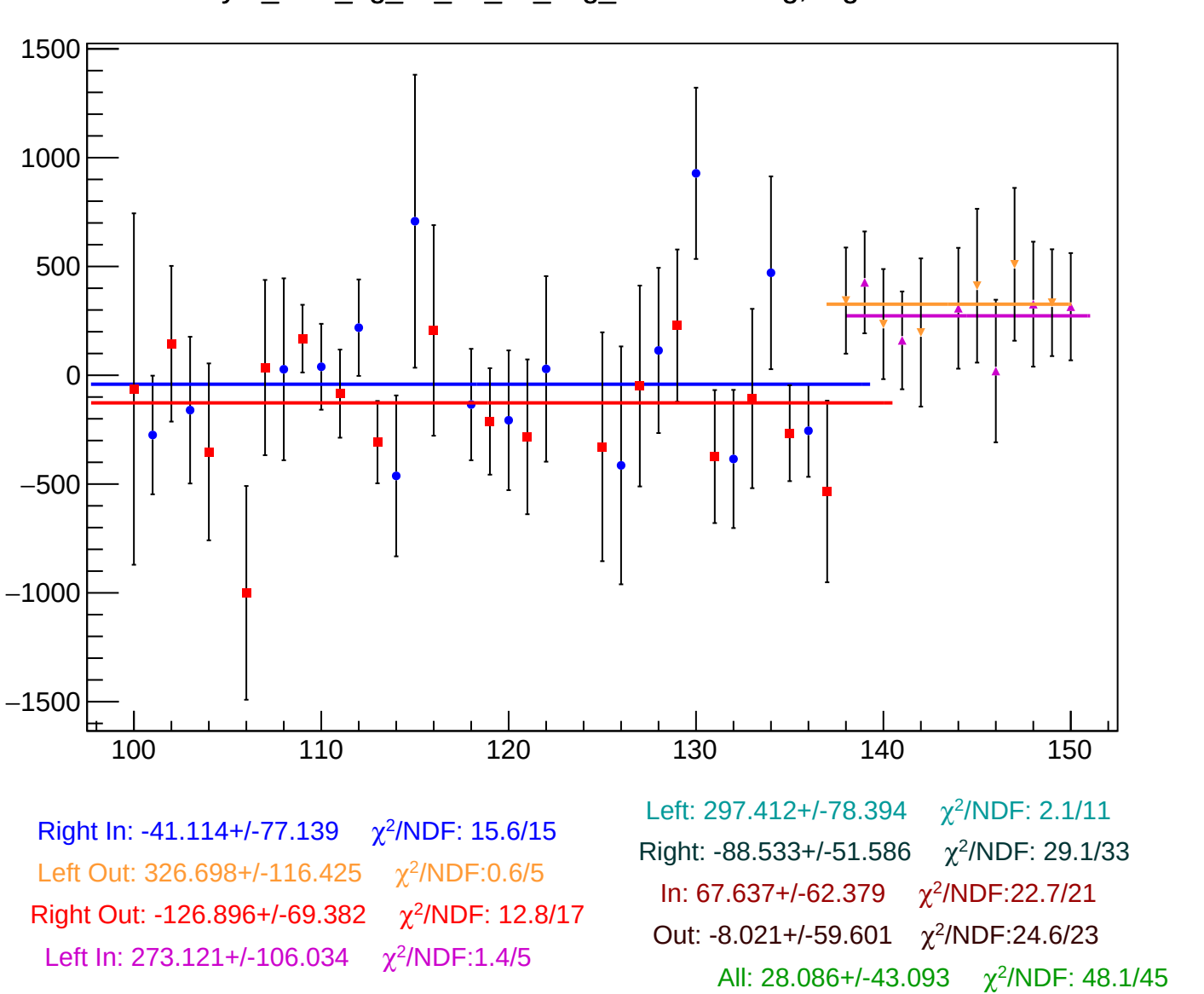
Left: 31.946+/-0.007 $\chi^2$/NDF: 34763.9/11

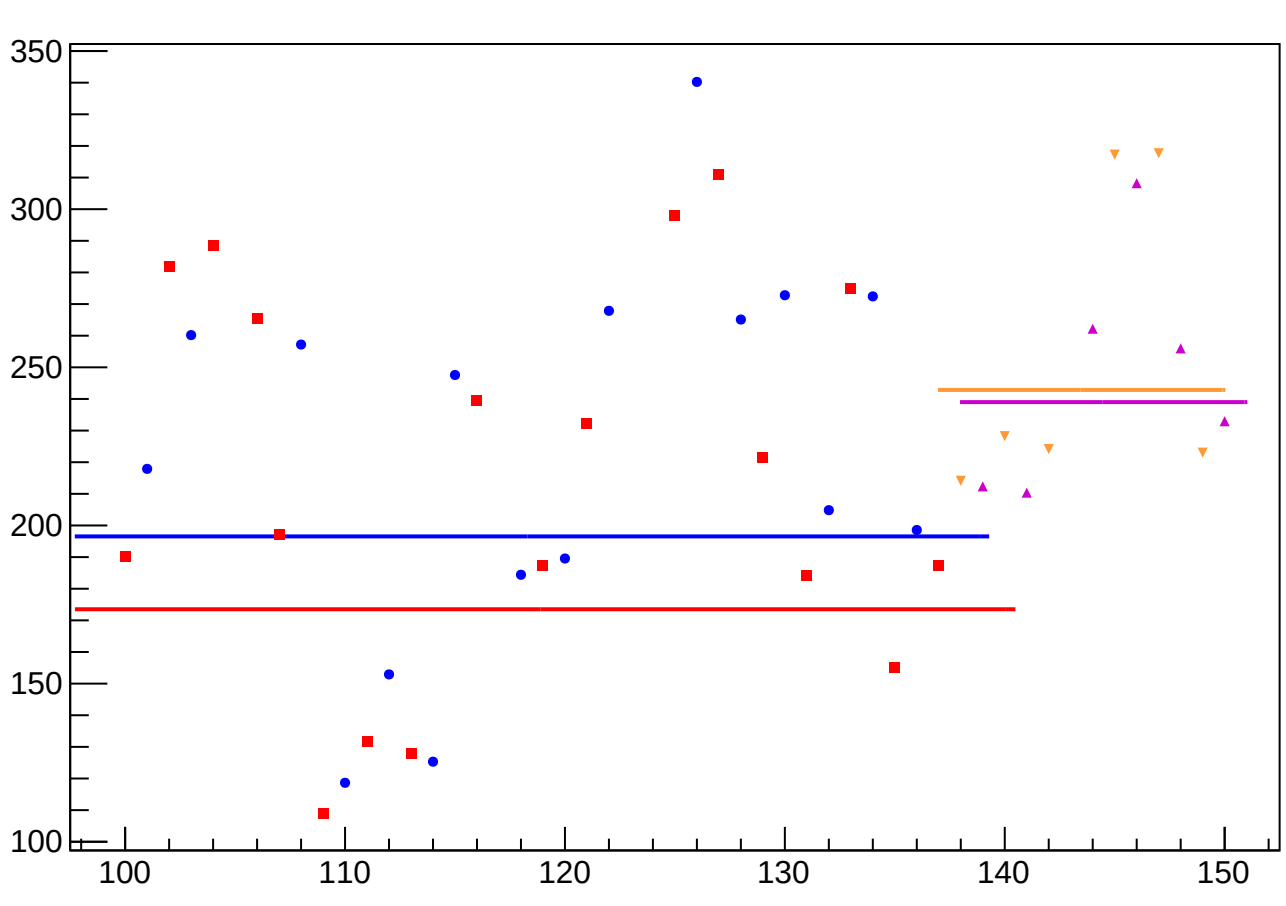
Right: 30.868+/-0.007 $\chi^2$/NDF: 6788655.9/33

In: 31.377+/-0.007 $\chi^2$/NDF:3279691.0/21

Out: 31.339+/-0.007 $\chi^2$/NDF:3555833.0/23

All: 31.359+/-0.005 $\chi^2$/NDF: 6835539.2/45


asym_bcm_dg_us_an_us_avg_mean vs Slug, Sign Corrected
1500
1000
500
0
−500
−1000
−1500
100
110
120
130
140
150
Right In: -41.114+/-77.139 χ²/NDF: 15.6/15
Left Out: 326.698+/-116.425 χ²/NDF:0.6/5
Right Out: -126.896+/-69.382 χ²/NDF: 12.8/17
Left In: 273.121+/-106.034 χ²/NDF:1.4/5
Left: 297.412+/-78.394 χ²/NDF: 2.1/11
Right: -88.533+/-51.586 χ²/NDF: 29.1/33
In: 67.637+/-62.379 χ²/NDF:22.7/21
Out: -8.021+/-59.601 χ²/NDF:24.6/23
All: 28.086+/-43.093 χ²/NDF: 48.1/45




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 242.858+/-0.082 $\chi^2$/NDF:232930.5/5

Right Out: 173.509+/-0.049 $\chi^2$/NDF: 1532720.5/17

Left In: 238.999+/-0.075 $\chi^2$/NDF:169817.1/5

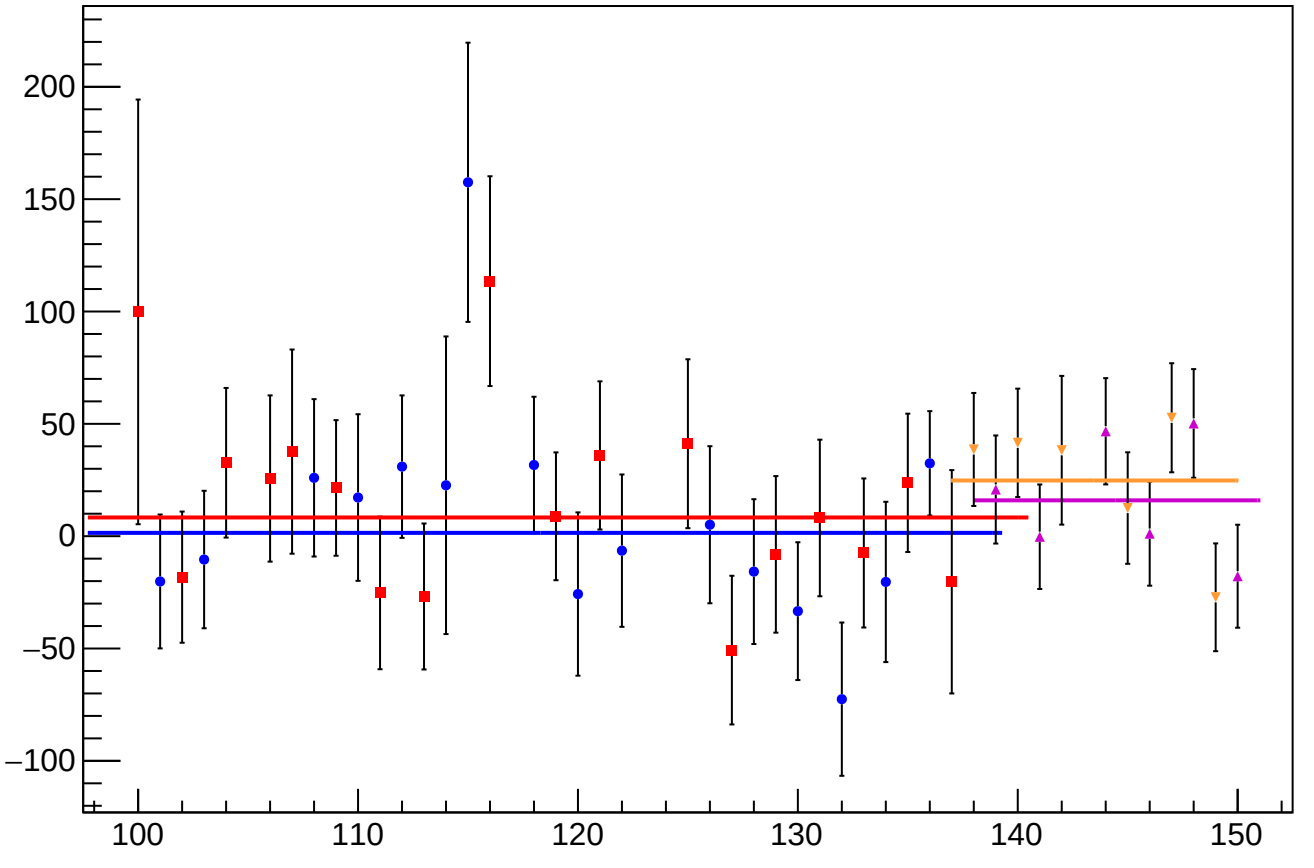
Left: 240.749+/-0.055 $\chi^2$/NDF: 403949.2/11

Right: 183.810+/-0.036 $\chi^2$/NDF: 2632060.1/33

In: 211.236+/-0.044 $\chi^2$/NDF:1380263.2/21

Out: 191.684+/-0.042 $\chi^2$/NDF:2289292.8/23

All: 201.015+/-0.030 $\chi^2$/NDF: 3772270.8/45




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 24.793+/-10.387 $\chi^2$/NDF:7.2/5

Right Out: 8.329+/-8.286 $\chi^2$/NDF: 16.0/17

Left In: 15.950+/-9.604 $\chi^2$/NDF:6.8/5

Left: 20.026+/-7.052 $\chi^2$/NDF: 14.4/11

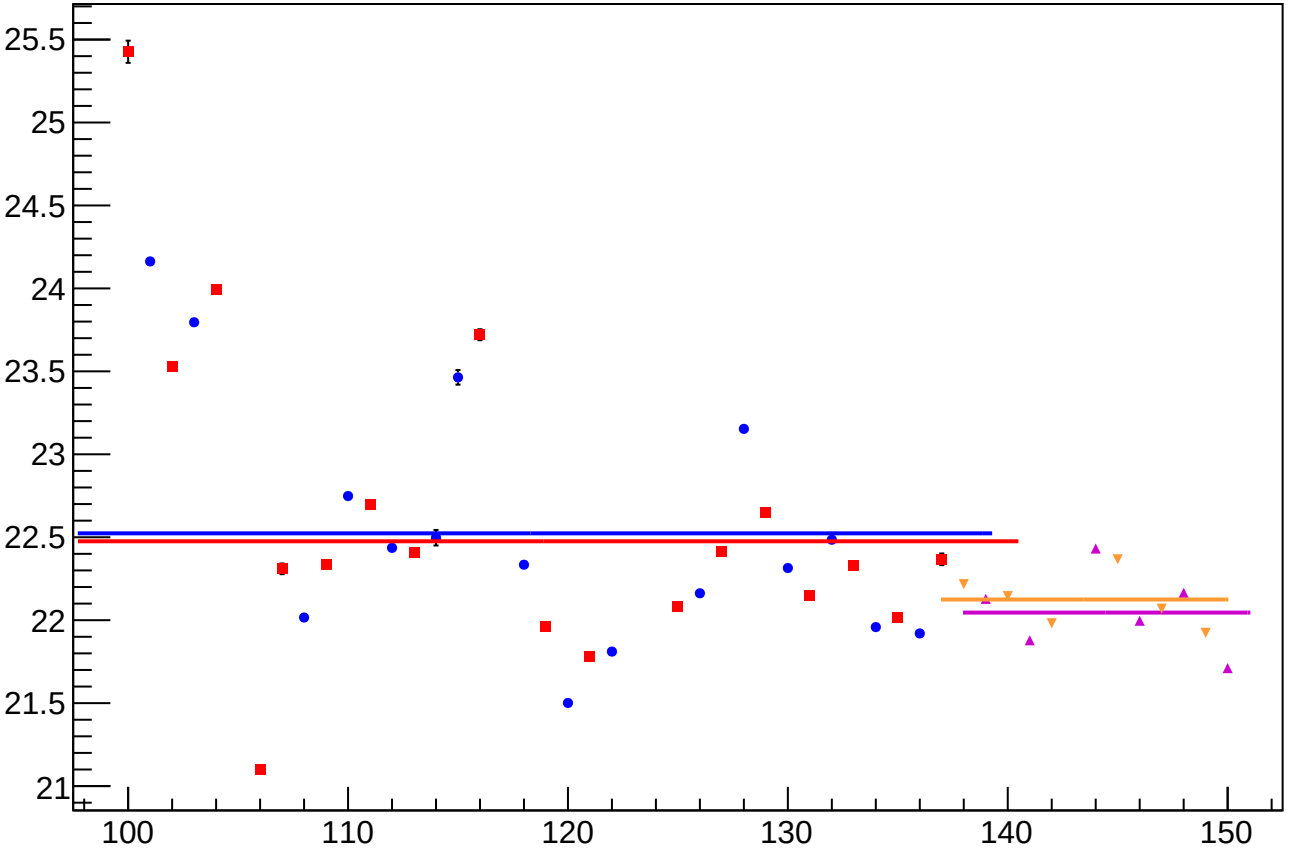
Right: 4.937+/-5.889 $\chi^2$/NDF: 35.0/33

In: 7.724+/-6.310 $\chi^2$/NDF:26.8/21

Out: 14.731+/-6.477 $\chi^2$/NDF:24.8/23

All: 11.136+/-4.520 $\chi^2$/NDF: 52.1/45

# asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected




Right In: 22.524+/-0.006 $\chi^2$/NDF: 15947.8/15

Left Out: 22.125+/-0.007 $\chi^2$/NDF:407.5/5

Right Out: 22.476+/-0.006 $\chi^2$/NDF: 15536.6/17

Left In: 22.046+/-0.007 $\chi^2$/NDF:1144.1/5

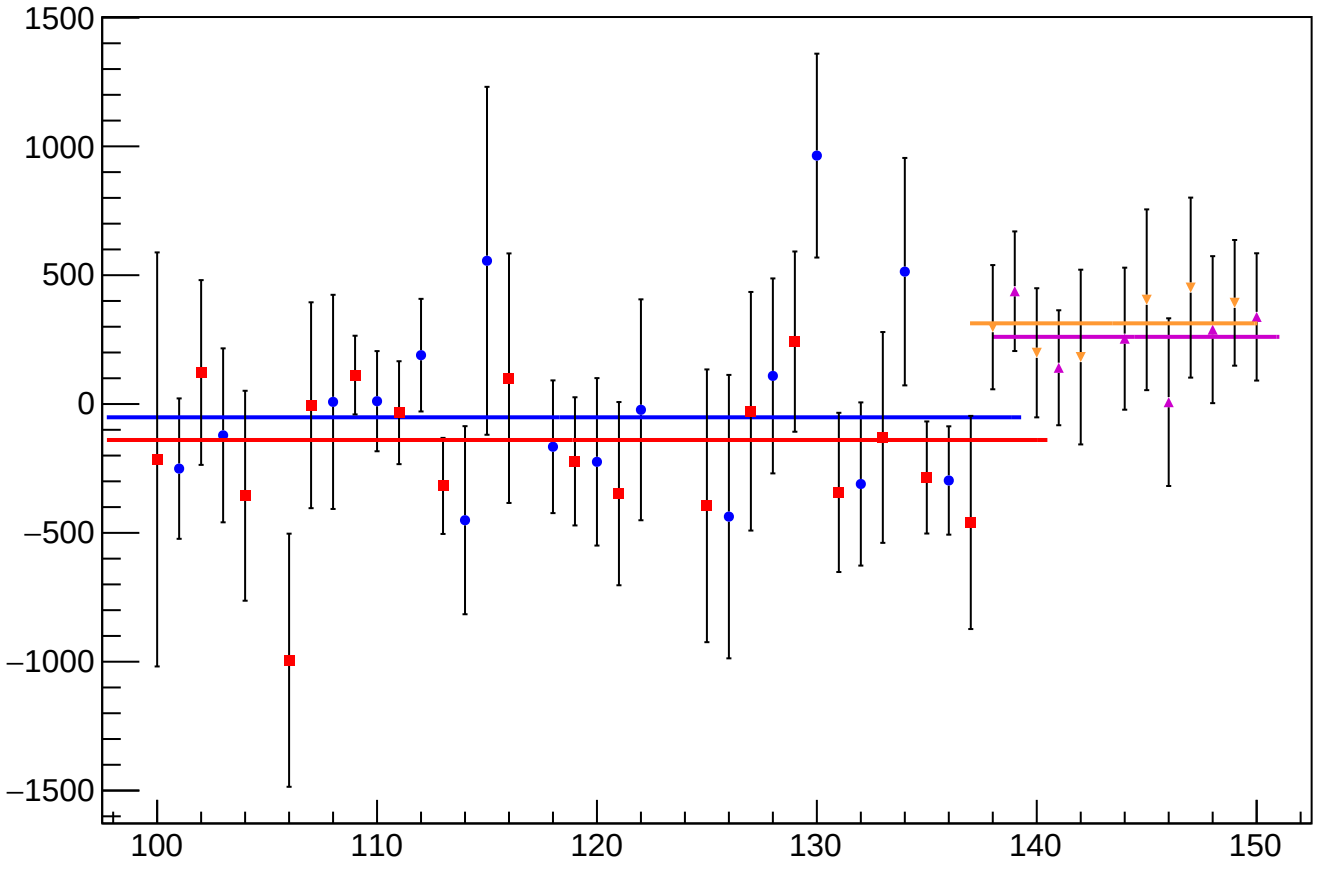
Left: 22.082+/-0.005 $\chi^2$/NDF: 1613.7/11

Right: 22.499+/-0.004 $\chi^2$/NDF: 31517.5/33

In: 22.317+/-0.004 $\chi^2$/NDF:19903.3/21

Out: 22.339+/-0.005 $\chi^2$/NDF:17338.9/23

All: 22.328+/-0.003 $\chi^2$/NDF: 37253.9/45




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 313.183+/-115.486 $\chi^2$/NDF:0.7/5

Right Out: -139.546+/-68.888 $\chi^2$/NDF: 11.6/17

Left In: 260.731+/-105.446 $\chi^2$/NDF:1.6/5

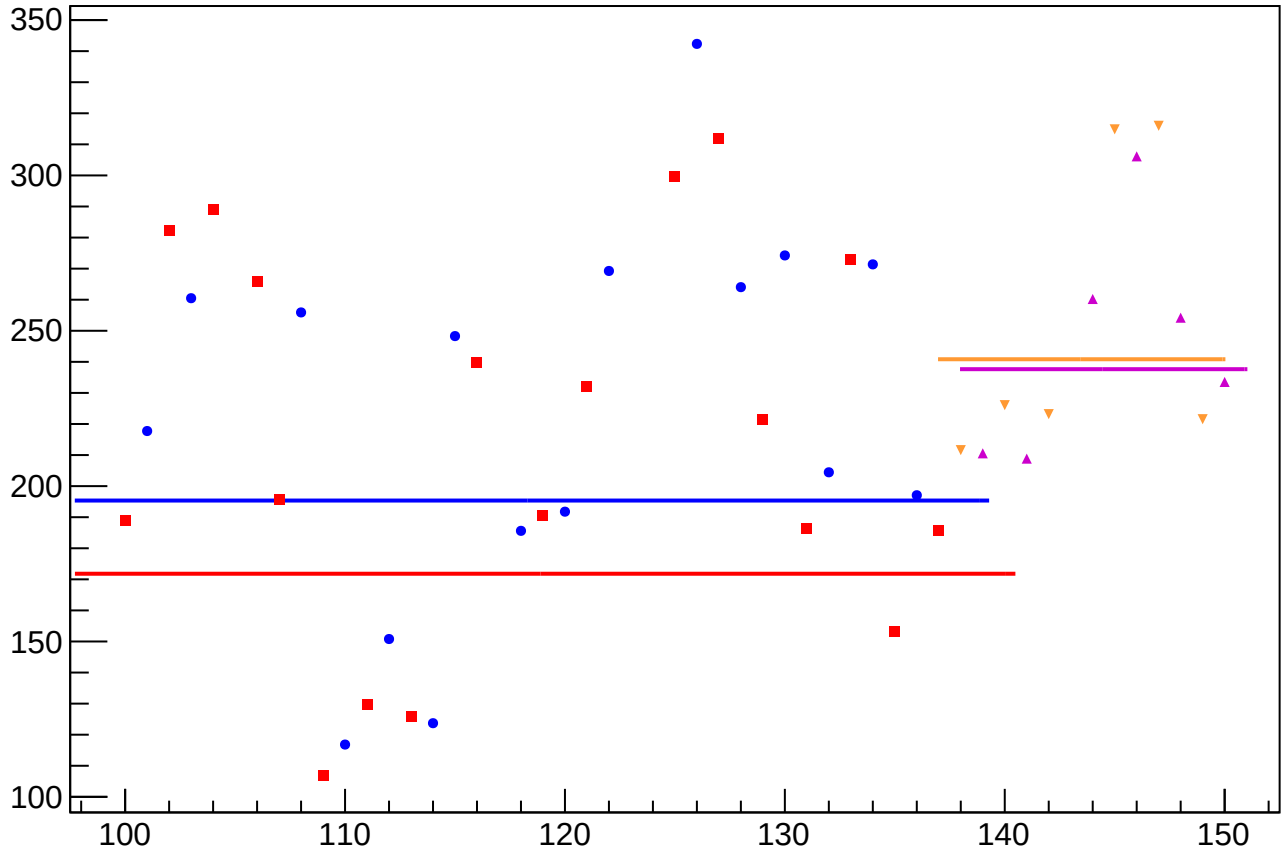
Left: 284.578+/-77.870 $\chi^2$/NDF: 2.4/11

Right: -100.285+/-51.280 $\chi^2$/NDF: 27.6/33

In: 56.723+/-62.078 $\chi^2$/NDF:22.7/21

Out: -20.732+/-59.162 $\chi^2$/NDF:23.6/23

All: 16.133+/-42.828 $\chi^2$/NDF: 47.0/45




Right In: 195.361+/-0.054 $\chi^2$/NDF: 1041432.1/15

Left Out: 240.837+/-0.082 $\chi^2$/NDF:235917.0/5

Right Out: 171.805+/-0.049 $\chi^2$/NDF: 1600663.6/17

Left In: 237.641+/-0.075 $\chi^2$/NDF:169884.4/5

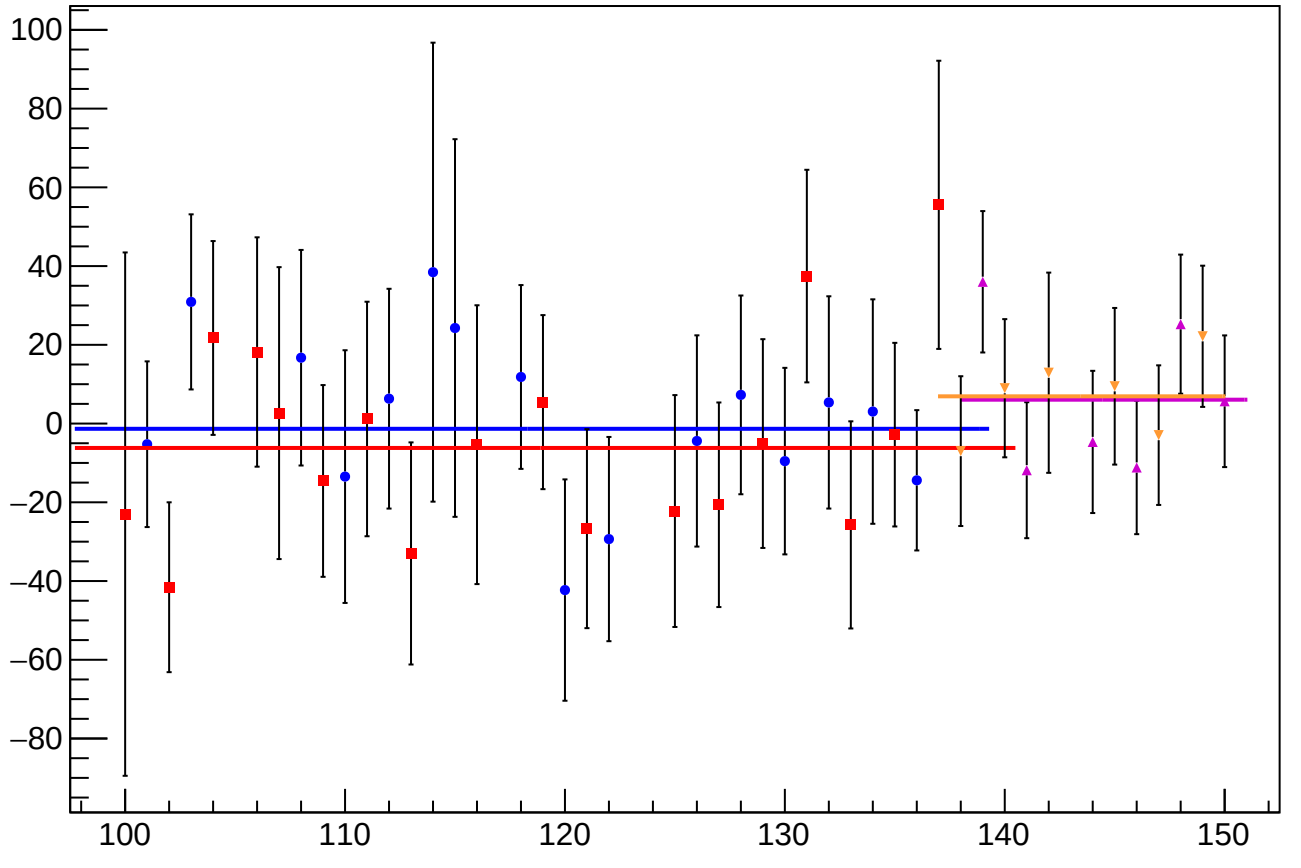
Left: 239.094+/-0.055 $\chi^2$/NDF: 406637.2/11

Right: 182.308+/-0.036 $\chi^2$/NDF: 2746362.8/33

In: 210.015+/-0.044 $\chi^2$/NDF:1421412.8/21

Out: 189.922+/-0.042 $\chi^2$/NDF:2363657.1/23

All: 199.485+/-0.030 $\chi^2$/NDF: 3894871.9/45




Right In: -1.331+/-6.499 $\chi^2$/NDF: 8.0/15

Left Out: 6.917+/-7.815 $\chi^2$/NDF:1.7/5

Right Out: -6.195+/-6.473 $\chi^2$/NDF: 13.5/17

Left In: 6.063+/-7.110 $\chi^2$/NDF:6.4/5

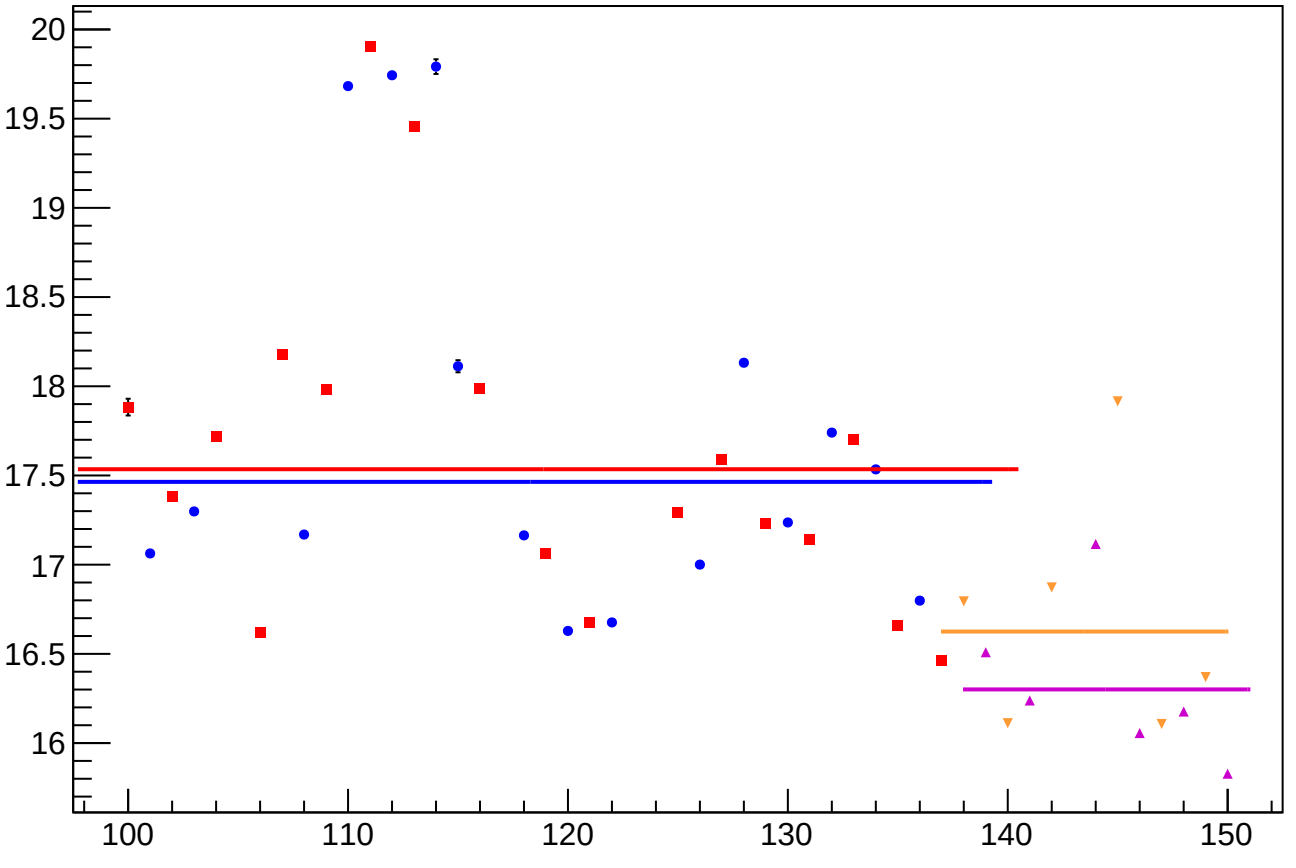
Left: 6.450+/-5.259 $\chi^2$/NDF: 8.1/11

Right: -3.773+/-4.586 $\chi^2$/NDF: 21.8/33

In: 2.034+/-4.797 $\chi^2$/NDF:15.0/21

Out: -0.860+/-4.985 $\chi^2$/NDF:16.8/23

All: 0.643+/-3.456 $\chi^2$/NDF: 32.0/45




Right In: 17.464+/-0.005 $\chi^2$/NDF: 36650.1/15

Left Out: 16.625+/-0.006 $\chi^2$/NDF:12587.8/5

Right Out: 17.535+/-0.005 $\chi^2$/NDF: 34475.1/17

Left In: 16.301+/-0.005 $\chi^2$/NDF:6480.4/5

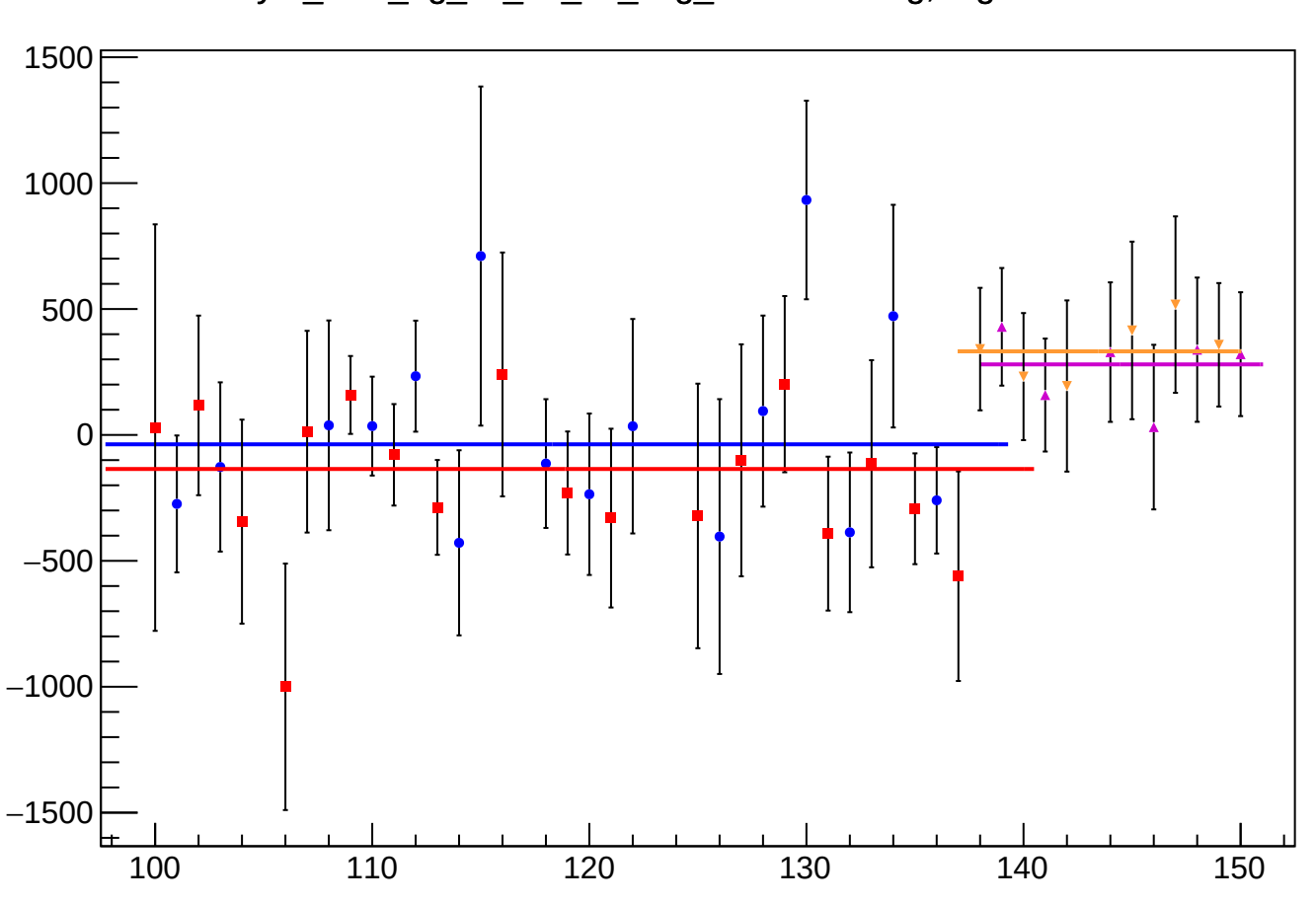
Left: 16.448+/-0.004 $\chi^2$/NDF: 20953.7/11

Right: 17.500+/-0.003 $\chi^2$/NDF: 71244.5/33

In: 16.935+/-0.003 $\chi^2$/NDF:72306.8/21

Out: 17.165+/-0.004 $\chi^2$/NDF:63141.2/23

All: 17.045+/-0.002 $\chi^2$/NDF: 137662.6/45




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 331.907+/-116.172 $\chi^2$/NDF:0.7/5

Right Out: -135.279+/-69.157 $\chi^2$/NDF: 12.8/17

Left In: 280.140+/-105.809 $\chi^2$/NDF:1.4/5

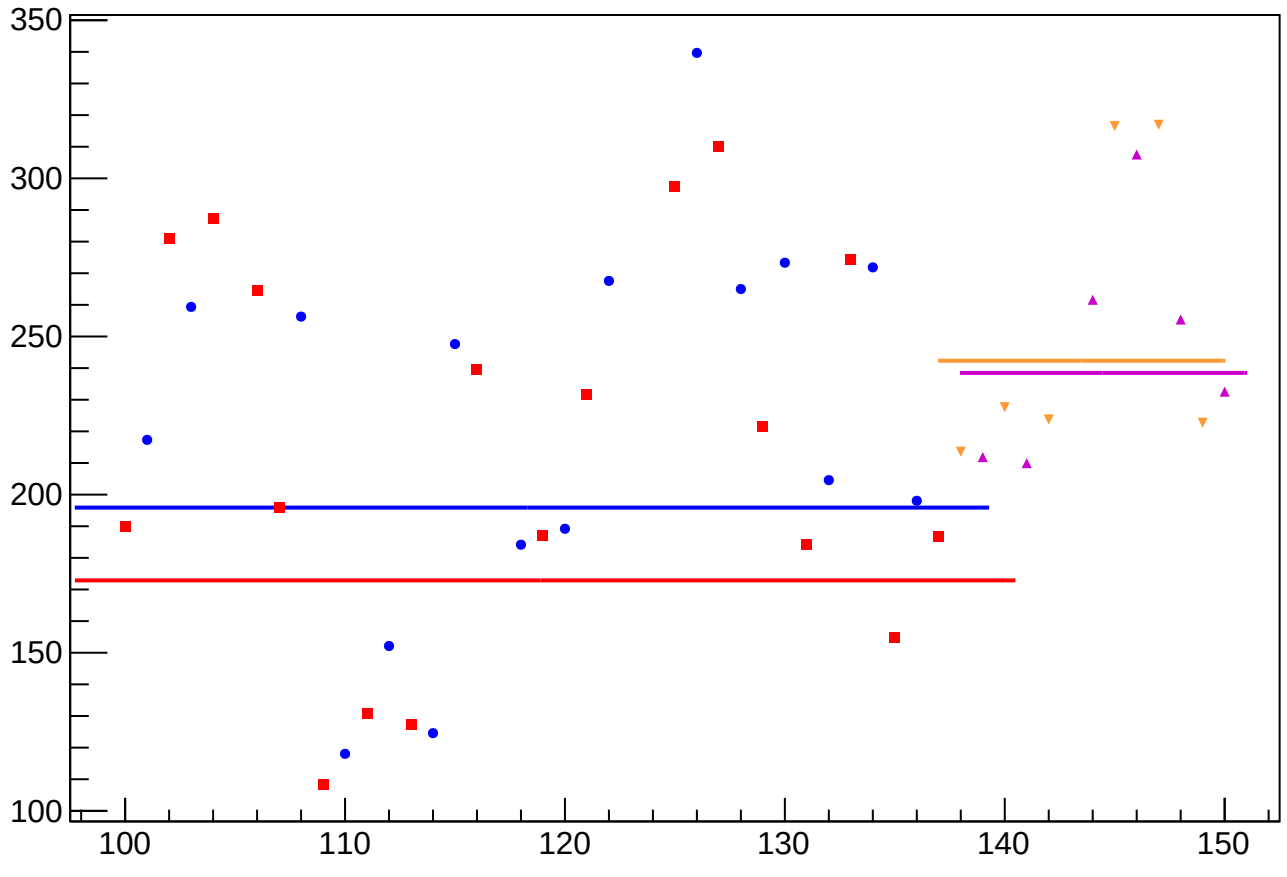
Left: 303.612+/-78.226 $\chi^2$/NDF: 2.2/11

Right: -91.452+/-51.426 $\chi^2$/NDF: 29.3/33

In: 72.486+/-62.214 $\chi^2$/NDF:22.9/21

Out: -13.037+/-59.425 $\chi^2$/NDF:25.4/23

All: 27.764+/-42.972 $\chi^2$/NDF: 49.3/45




Right In: 195.900+/-0.054 $\chi^2$/NDF: 1011012.3/15

Left Out: 242.334+/-0.082 $\chi^2$/NDF:232732.7/5

Right Out: 172.873+/-0.049 $\chi^2$/NDF: 1543258.3/17

Left In: 238.492+/-0.075 $\chi^2$/NDF:169648.3/5

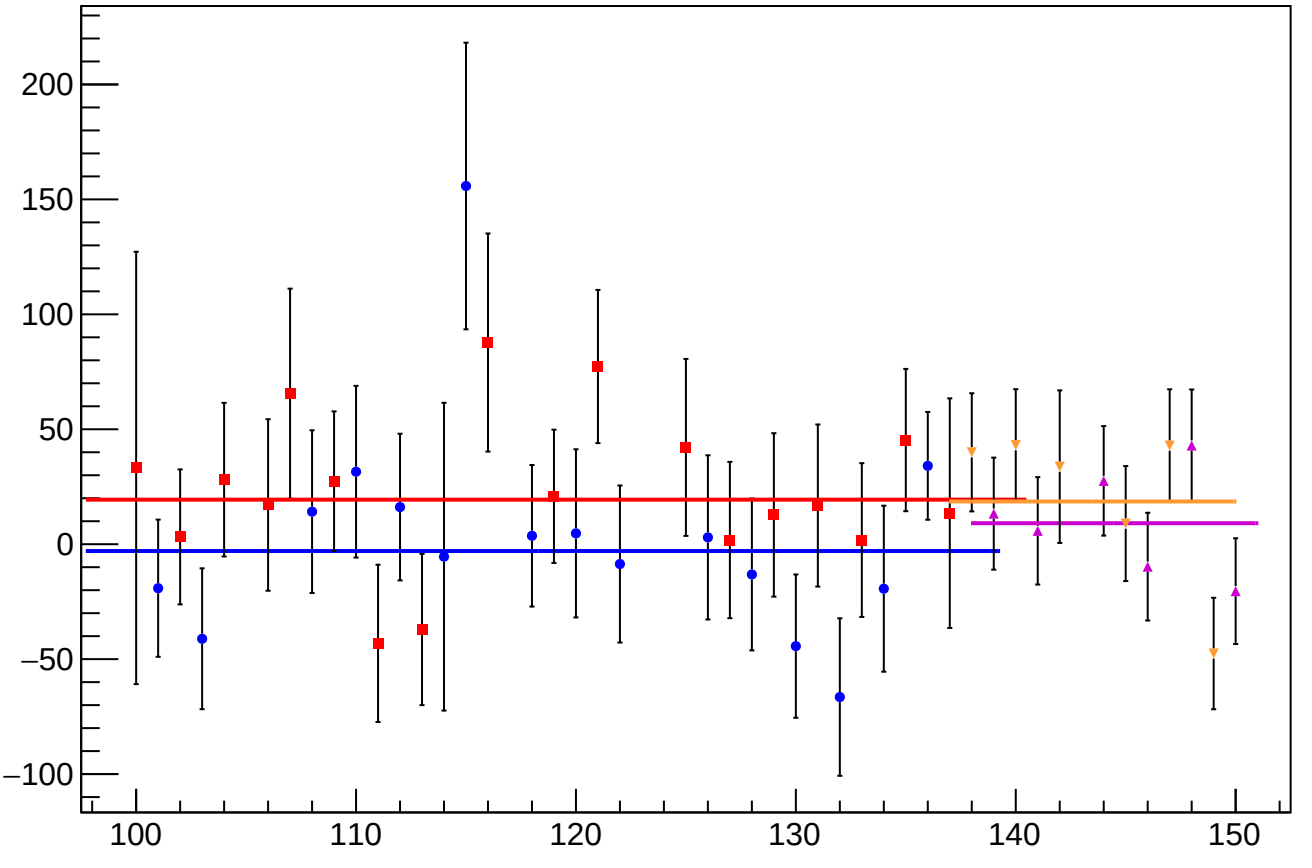
Left: 240.234+/-0.055 $\chi^2$/NDF: 403576.6/11

Right: 183.167+/-0.036 $\chi^2$/NDF: 2653391.3/33

In: 210.625+/-0.044 $\chi^2$/NDF:1392694.9/21

Out: 191.048+/-0.042 $\chi^2$/NDF:2303908.9/23

All: 200.388+/-0.030 $\chi^2$/NDF: 3800162.3/45




Right In: -2.967+/-8.454 $\chi^2$/NDF: 17.9/15

Left Out: 18.587+/-10.497 $\chi^2$/NDF:10.5/5

Right Out: 19.387+/-8.381 $\chi^2$/NDF: 14.5/17

Left In: 9.139+/-9.680 $\chi^2$/NDF:4.9/5

Left: 13.481+/-7.116 $\chi^2$/NDF: 15.8/11

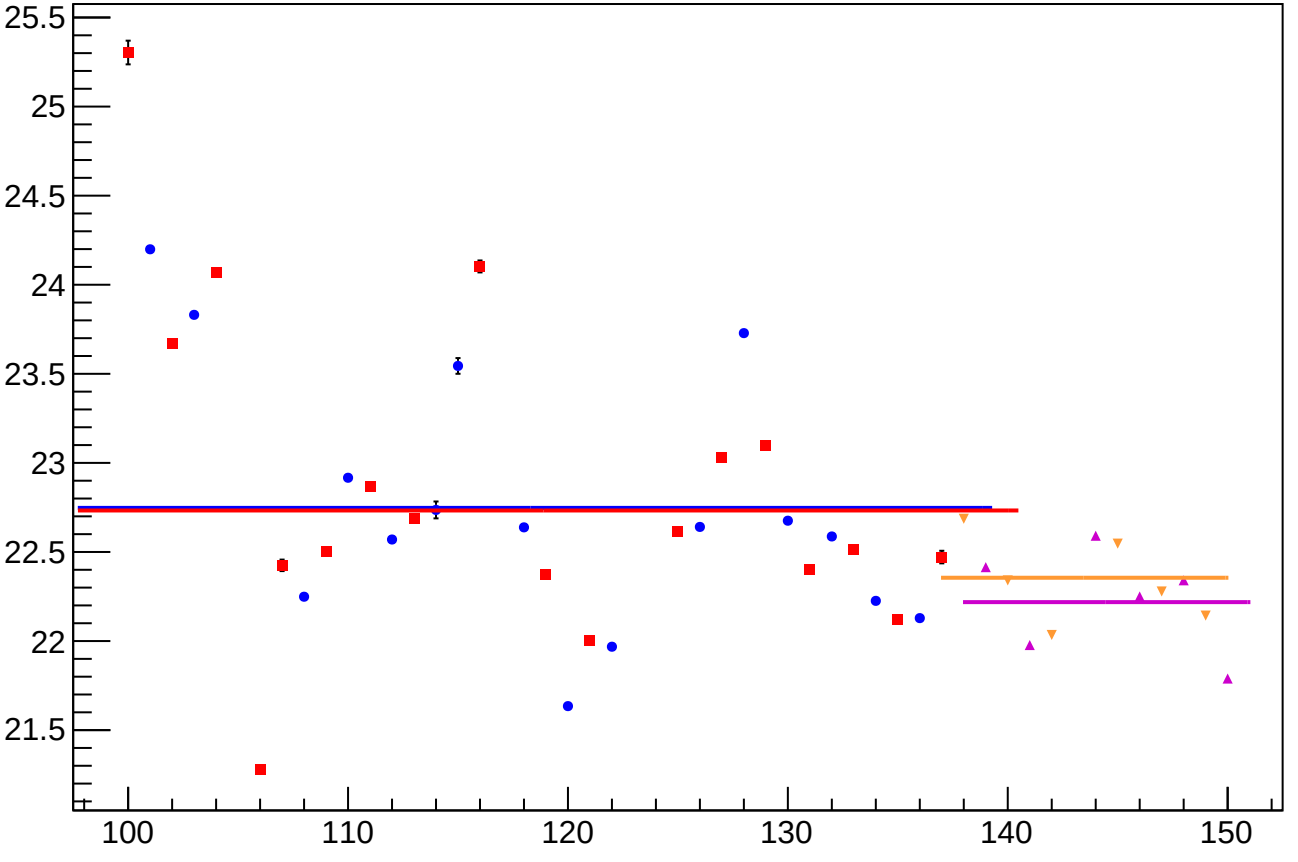
Right: 8.306+/-5.952 $\chi^2$/NDF: 36.0/33

In: 2.271+/-6.368 $\chi^2$/NDF:23.7/21

Out: 19.075+/-6.550 $\chi^2$/NDF:25.0/23

All: 10.436+/-4.566 $\chi^2$/NDF: 52.1/45

# asym_bcm_dg_us_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 22.747+/-0.006 $\chi^2$/NDF: 14622.8/15

Left Out: 22.355+/-0.007 $\chi^2$/NDF:810.8/5

Right Out: 22.733+/-0.006 $\chi^2$/NDF: 14389.6/17

Left In: 22.219+/-0.007 $\chi^2$/NDF:1581.3/5

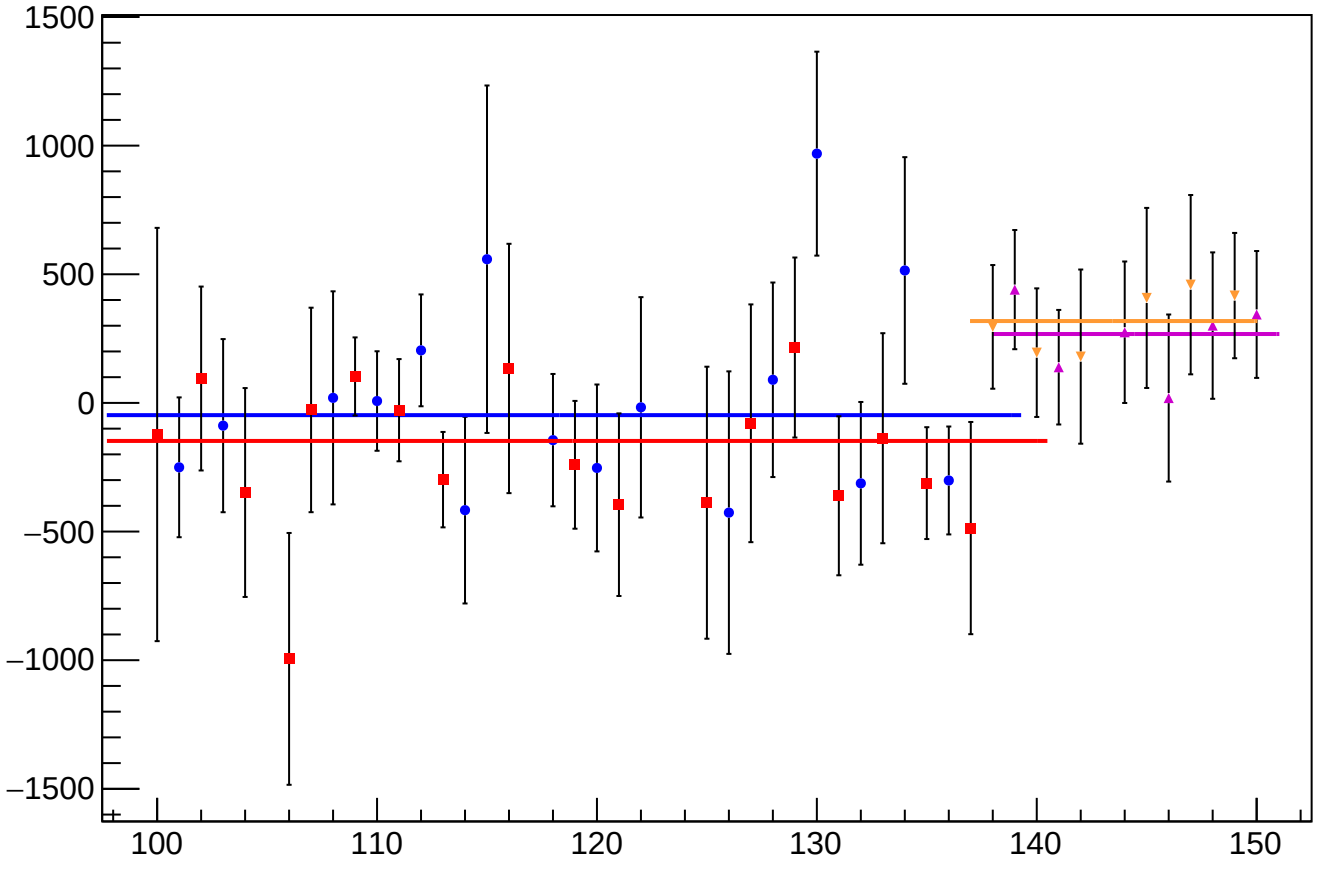
Left: 22.281+/-0.005 $\chi^2$/NDF: 2575.8/11

Right: 22.740+/-0.004 $\chi^2$/NDF: 29015.4/33

In: 22.519+/-0.005 $\chi^2$/NDF:19592.1/21

Out: 22.586+/-0.005 $\chi^2$/NDF:16780.7/23

All: 22.551+/-0.003 $\chi^2$/NDF: 36481.4/45




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 318.176+/-115.233 $\chi^2$/NDF:0.8/5

Right Out: -147.812+/-68.660 $\chi^2$/NDF: 11.5/17

Left In: 267.781+/-105.220 $\chi^2$/NDF:1.6/5

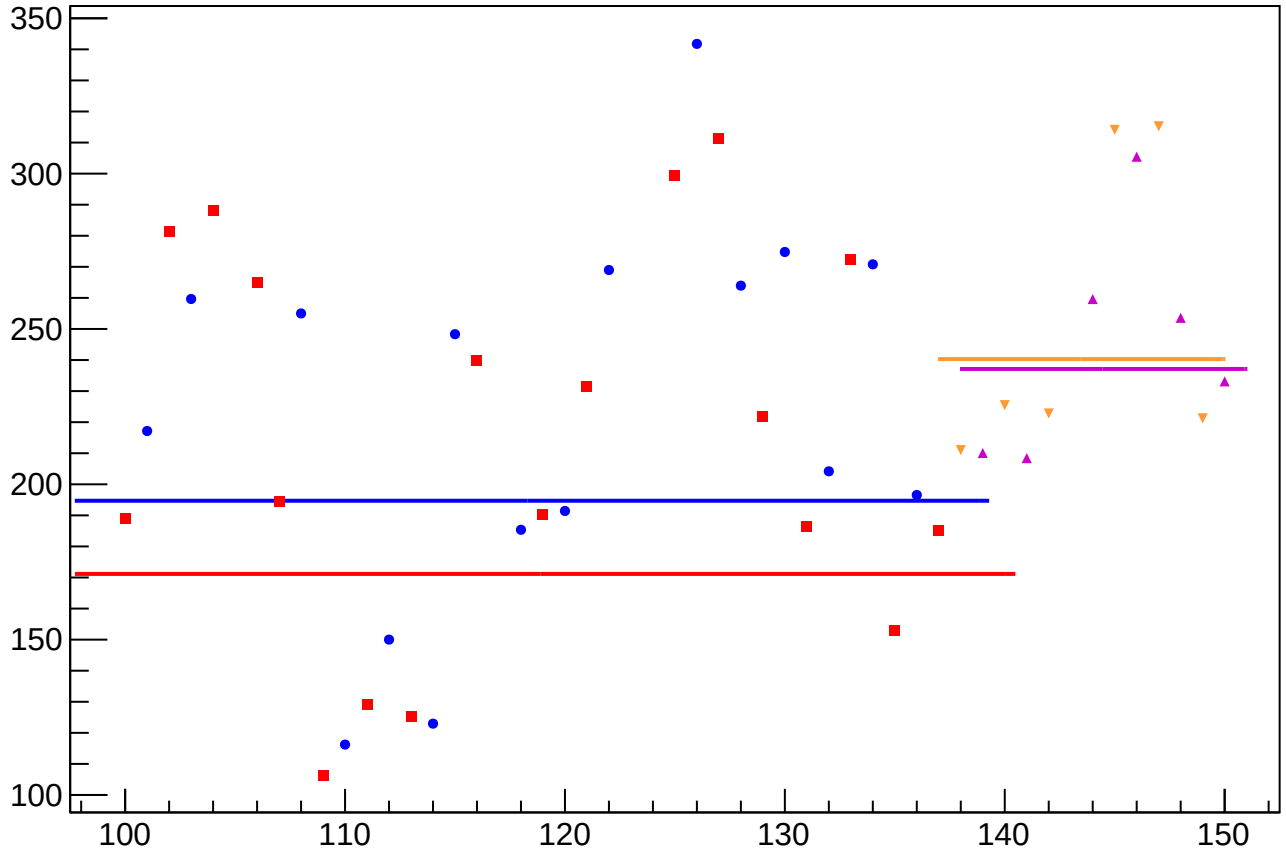
Left: 290.694+/-77.701 $\chi^2$/NDF: 2.5/11

Right: -103.114+/-51.119 $\chi^2$/NDF: 27.9/33

In: 61.644+/-61.912 $\chi^2$/NDF:22.9/21

Out: -25.723+/-58.983 $\chi^2$/NDF:24.4/23

All: 15.845+/-42.705 $\chi^2$/NDF: 48.3/45




Right In: 194.708+/-0.054 $\chi^2$/NDF: 1052288.9/15

Left Out: 240.312+/-0.081 $\chi^2$/NDF:235739.5/5

Right Out: 171.156+/-0.049 $\chi^2$/NDF: 1611935.6/17

Left In: 237.131+/-0.074 $\chi^2$/NDF:169740.2/5

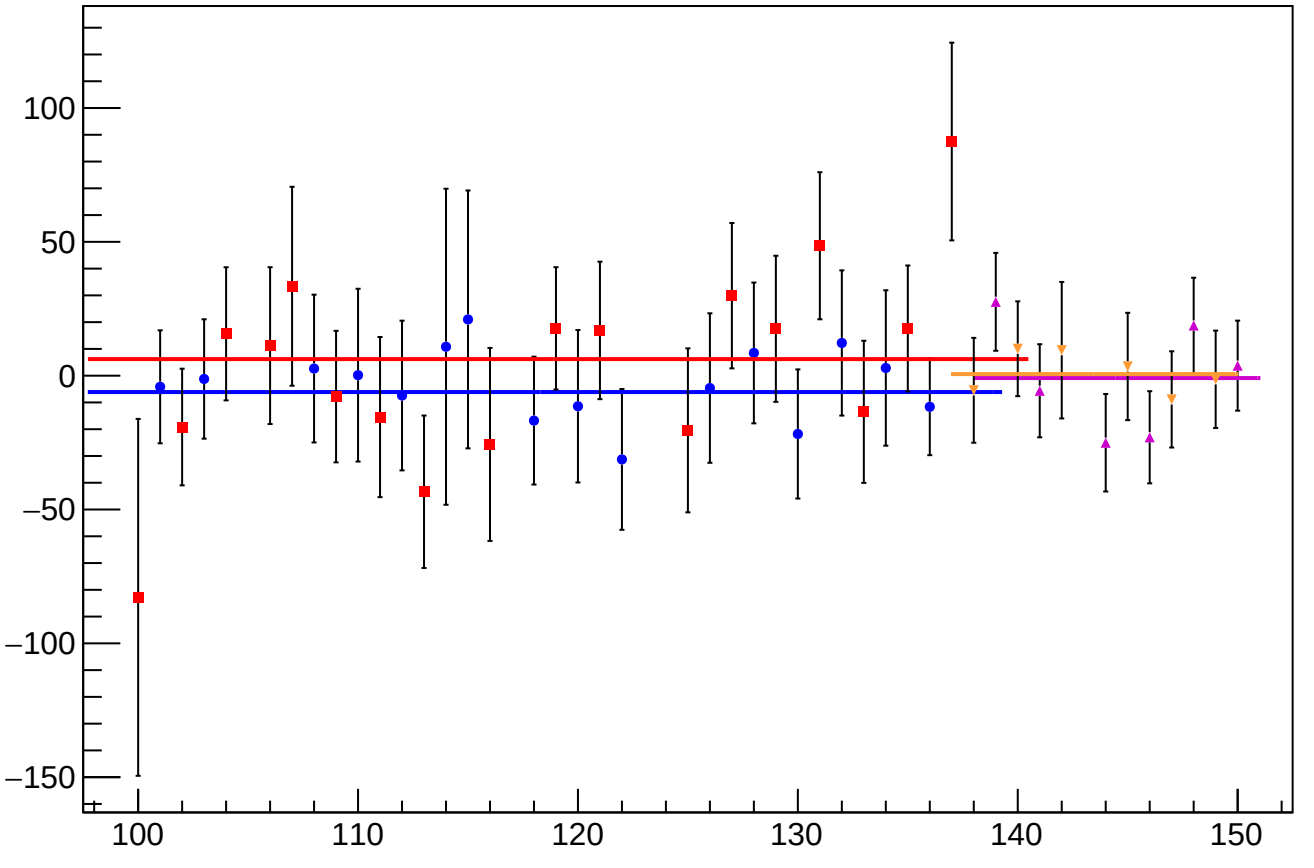
Left: 238.577+/-0.055 $\chi^2$/NDF: 406310.7/11

Right: 181.653+/-0.036 $\chi^2$/NDF: 2769105.7/33

In: 209.396+/-0.044 $\chi^2$/NDF:1434581.7/21

Out: 189.275+/-0.042 $\chi^2$/NDF:2379271.4/23

All: 198.848+/-0.030 $\chi^2$/NDF: 3924586.6/45




Right In: -6.119+/-6.592 $\chi^2$/NDF: 3.1/15

Left Out: 0.597+/-7.922 $\chi^2$/NDF:0.8/5

Right Out: 6.195+/-6.580 $\chi^2$/NDF: 18.6/17

Left In: -0.892+/-7.187 $\chi^2$/NDF:7.2/5

Left: -0.220+/-5.323 $\chi^2$/NDF: 8.0/11

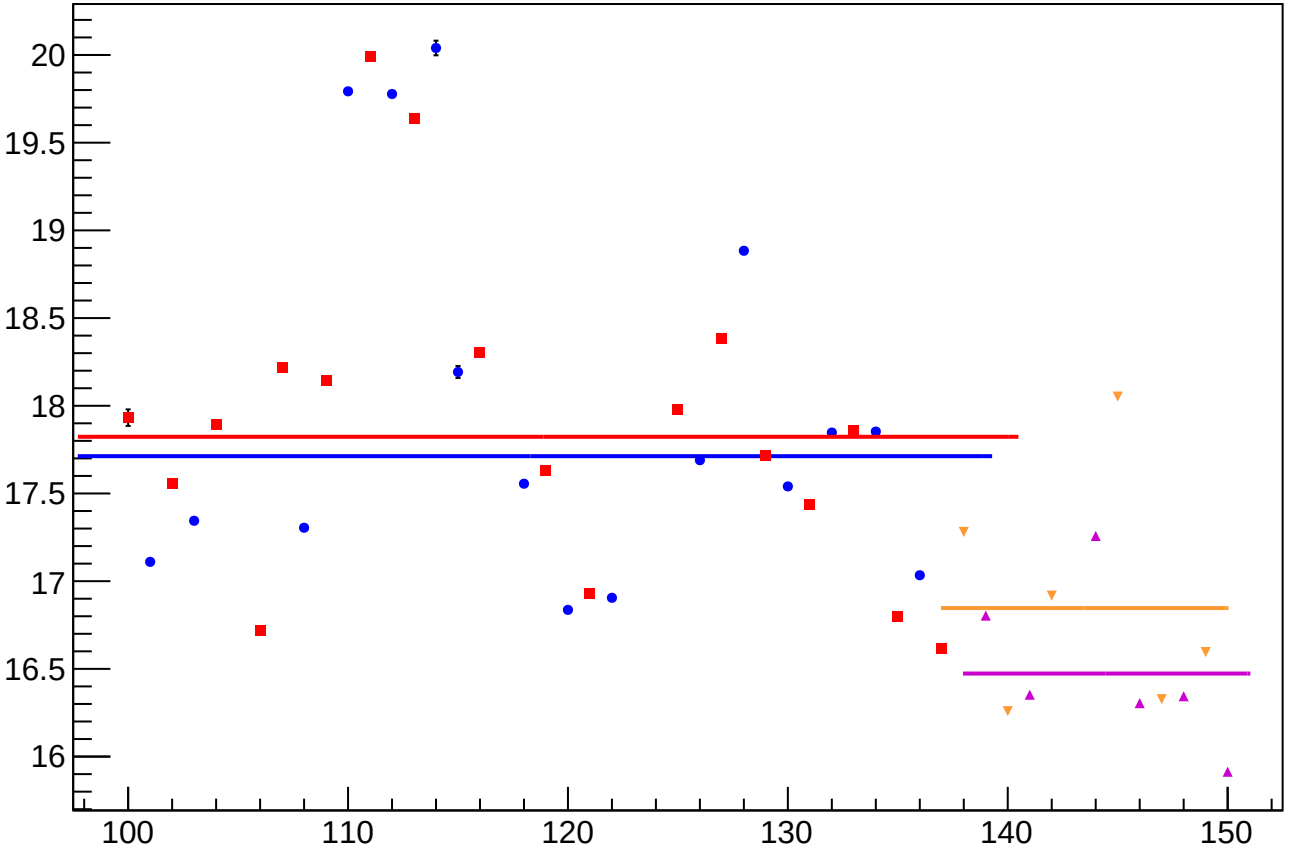
Right: 0.049+/-4.657 $\chi^2$/NDF: 23.5/33

In: -3.731+/-4.858 $\chi^2$/NDF:10.6/21

Out: 3.909+/-5.062 $\chi^2$/NDF:19.7/23

All: -0.068+/-3.505 $\chi^2$/NDF: 31.5/45

# asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 17.713+/-0.005 $\chi^2$/NDF: 35983.5/15

Left Out: 16.847+/-0.006 $\chi^2$/NDF:12481.5/5

Right Out: 17.823+/-0.005 $\chi^2$/NDF: 32502.9/17

Left In: 16.473+/-0.005 $\chi^2$/NDF:6971.4/5

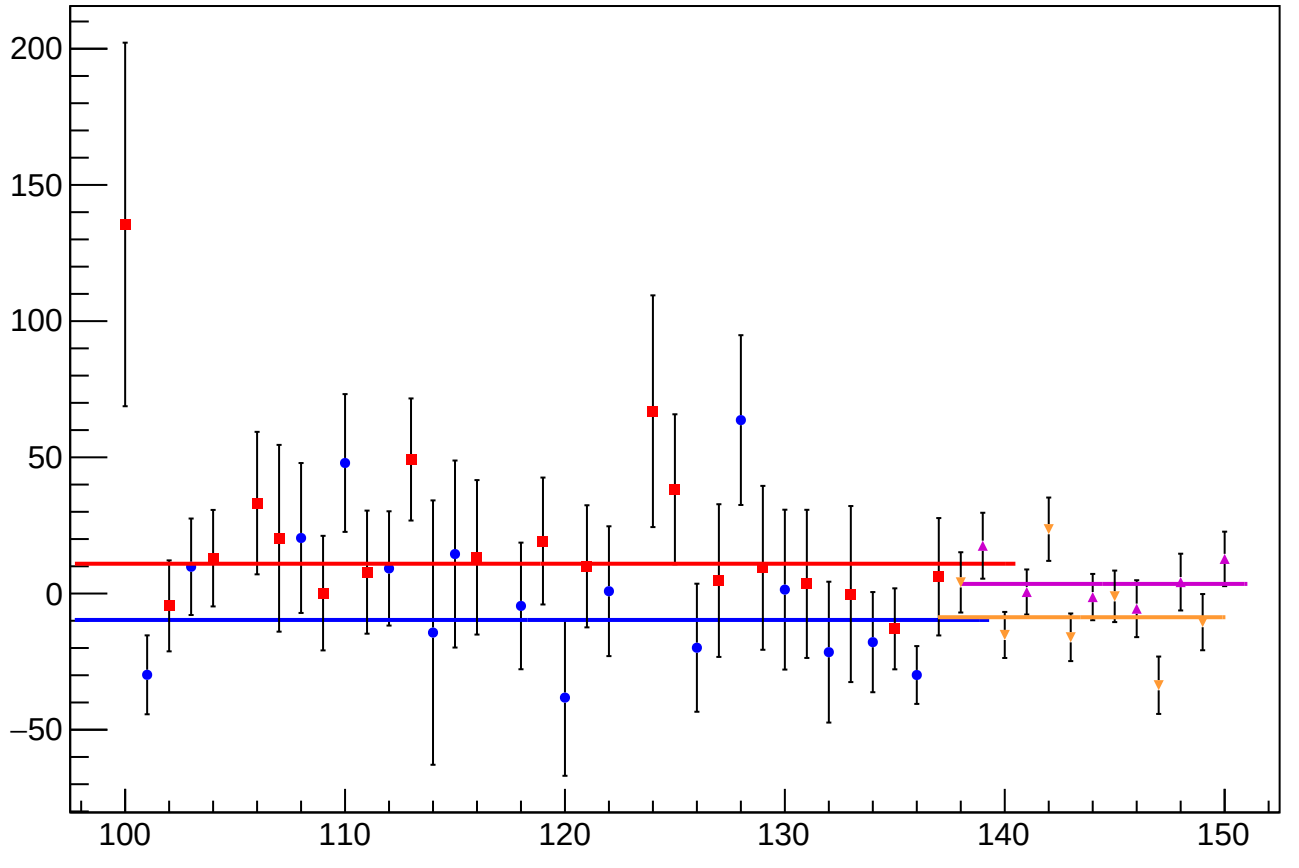
Left: 16.642+/-0.004 $\chi^2$/NDF: 21889.0/11

Right: 17.768+/-0.003 $\chi^2$/NDF: 68768.1/33

In: 17.146+/-0.003 $\chi^2$/NDF:75250.7/21

Out: 17.424+/-0.004 $\chi^2$/NDF:62968.3/23

All: 17.280+/-0.002 $\chi^2$/NDF: 141361.1/45




Right In: -9.702+/-5.231 $\chi^2$/NDF: 22.0/15

Left Out: -8.700+/-3.721 $\chi^2$/NDF:16.7/6

Right Out: 10.938+/-5.436 $\chi^2$/NDF: 14.1/18

Left In: 3.532+/-3.963 $\chi^2$/NDF:3.4/5

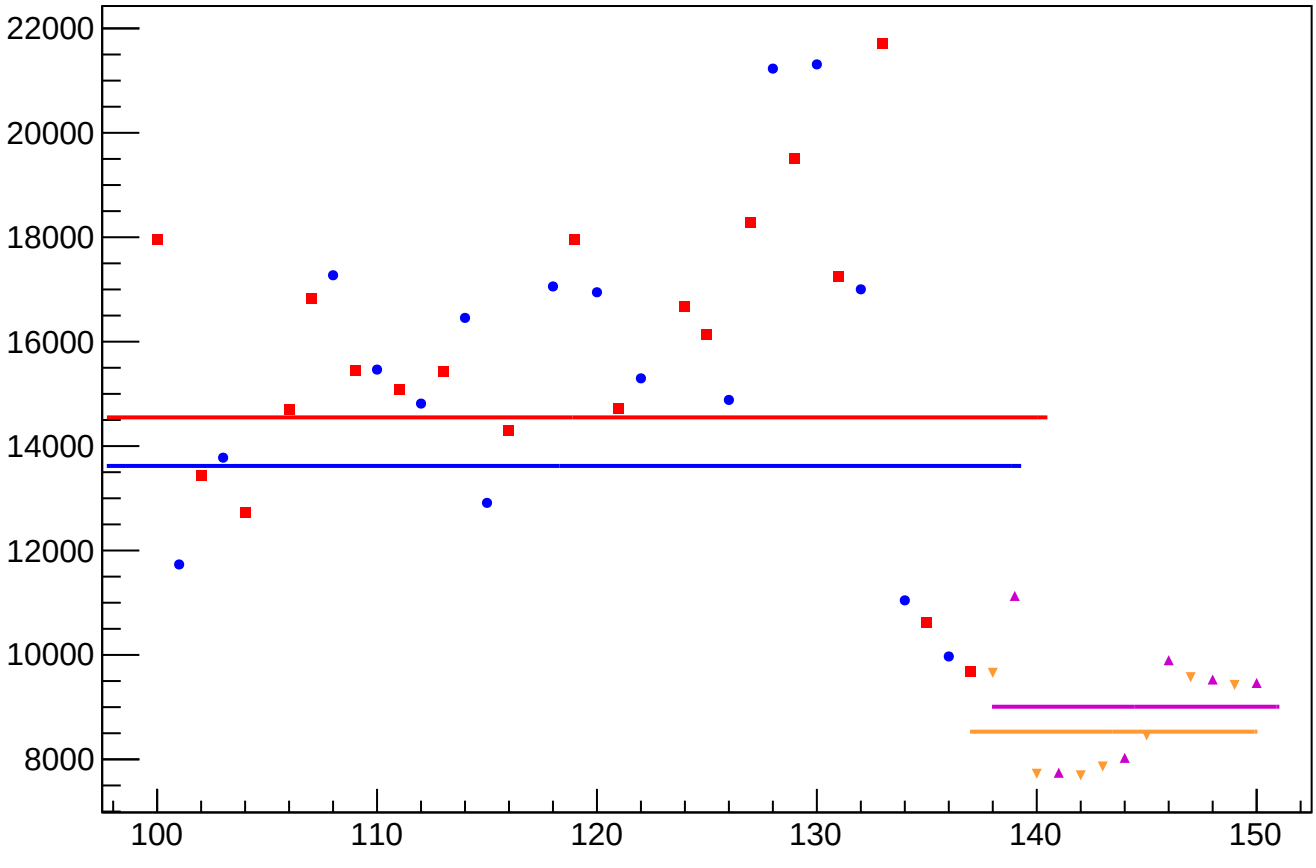
Left: -2.969+/-2.712 $\chi^2$/NDF: 25.1/12

Right: 0.222+/-3.769 $\chi^2$/NDF: 43.6/34

In: -1.293+/-3.159 $\chi^2$/NDF:29.5/21

Out: -2.435+/-3.070 $\chi^2$/NDF:39.6/25

All: -1.880+/-2.202 $\chi^2$/NDF: 69.2/47




Right In: 13619.845+/-3.699 $\chi^2$/NDF: 746985.9/15

Left Out: 8530.136+/-2.631 $\chi^2$/NDF:95719.4/6

Right Out: 14549.658+/-3.844 $\chi^2$/NDF: 555902.2/18

Left In: 9007.968+/-2.802 $\chi^2$/NDF:158479.3/5

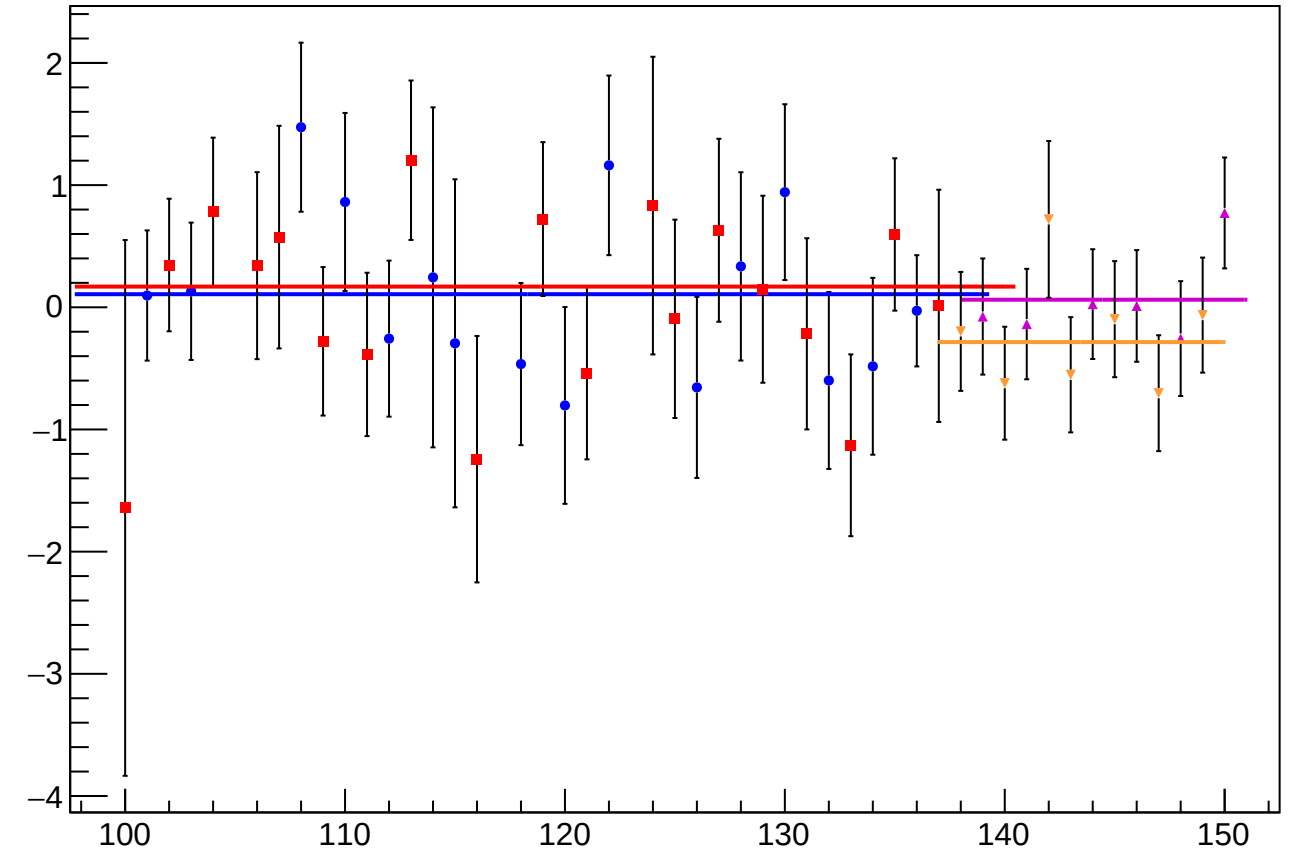
Left: 8754.018+/-1.918 $\chi^2$/NDF: 269653.6/12

Right: 14066.907+/-2.665 $\chi^2$/NDF: 1333265.9/34

In: 10689.420+/-2.234 $\chi^2$/NDF:1893115.3/21

Out: 10450.445+/-2.171 $\chi^2$/NDF:2321566.8/25

All: 10566.544+/-1.557 $\chi^2$/NDF: 4220568.0/4




Right In: 0.107+/-0.172 $\chi^2$/NDF: 13.7/15

Left Out: -0.285+/-0.185 $\chi^2$/NDF:4.5/6

Right Out: 0.169+/-0.169 $\chi^2$/NDF: 14.1/18

Left In: 0.062+/-0.187 $\chi^2$/NDF:3.2/5

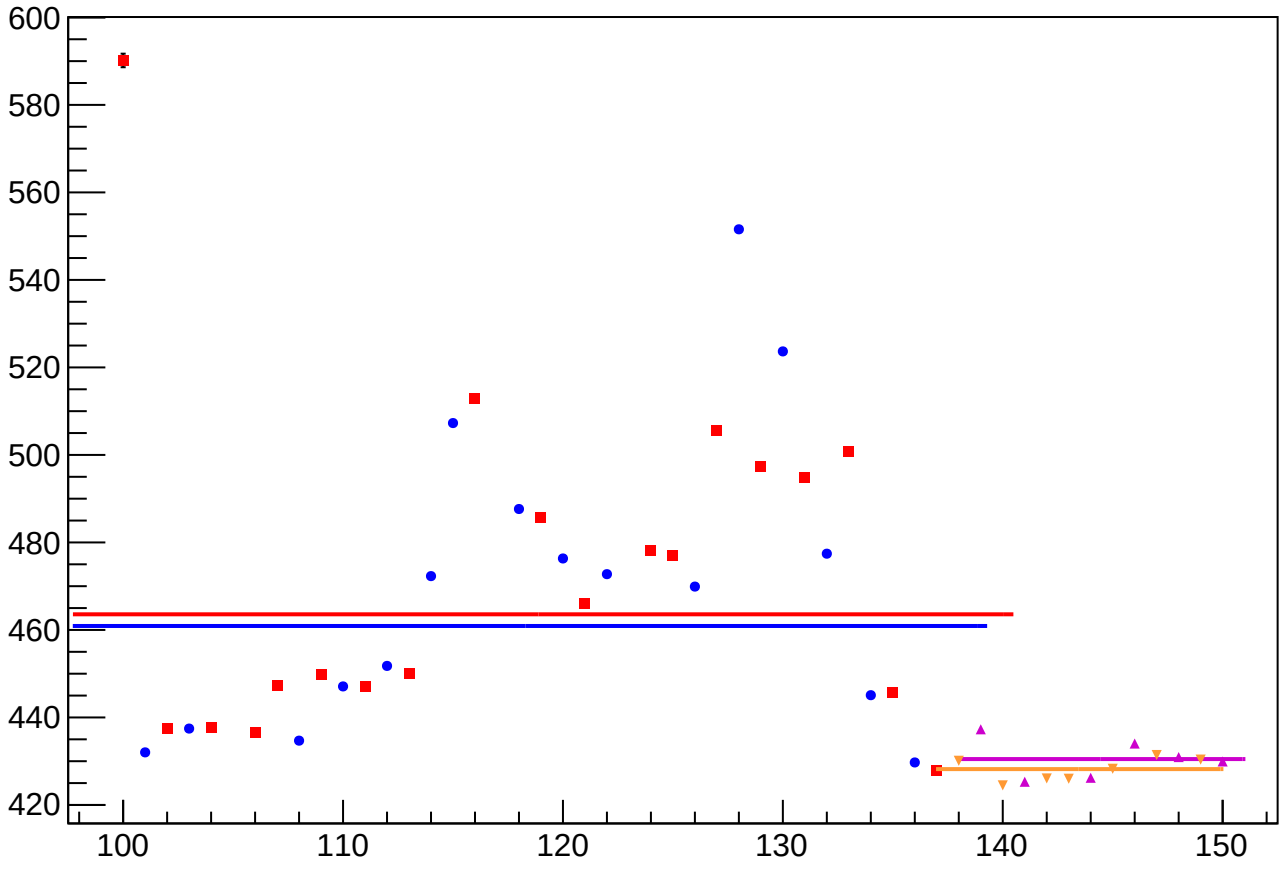
Left: -0.114+/-0.132 $\chi^2$/NDF: 9.4/12

Right: 0.139+/-0.121 $\chi^2$/NDF: 27.8/34

In: 0.087+/-0.127 $\chi^2$/NDF:16.9/21

Out: -0.038+/-0.125 $\chi^2$/NDF:21.9/25

All: 0.024+/-0.089 $\chi^2$/NDF: 39.3/47




Right In: 460.906+/-0.121 $\chi^2$/NDF: 74930.1/15

Left Out: 428.195+/-0.131 $\chi^2$/NDF:360.3/6

Right Out: 463.573+/-0.120 $\chi^2$/NDF: 52175.6/18

Left In: 430.490+/-0.133 $\chi^2$/NDF:979.4/5

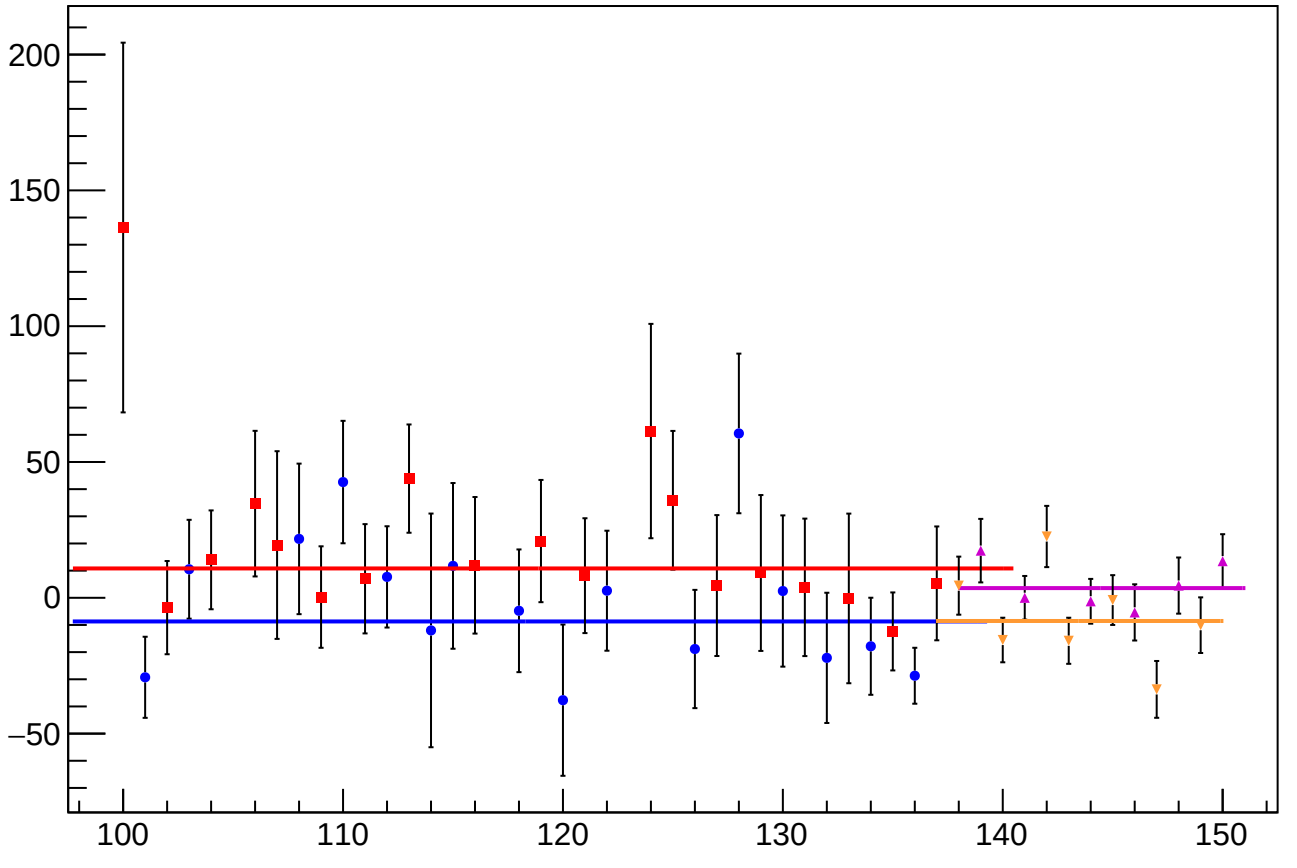
Left: 429.327+/-0.093 $\chi^2$/NDF: 1491.6/12

Right: 462.257+/-0.085 $\chi^2$/NDF: 127350.1/34

In: 447.032+/-0.090 $\chi^2$/NDF:104536.5/21

Out: 447.436+/-0.088 $\chi^2$/NDF:92308.1/25

All: 447.236+/-0.063 $\chi^2$/NDF: 196854.9/47




Right In: -8.707+/-5.036 $\chi^2$/NDF: 22.3/15

Left Out: -8.534+/-3.629 $\chi^2$/NDF:17.1/6

Right Out: 10.807+/-5.192 $\chi^2$/NDF: 13.9/18

Left In: 3.572+/-3.881 $\chi^2$/NDF:3.7/5

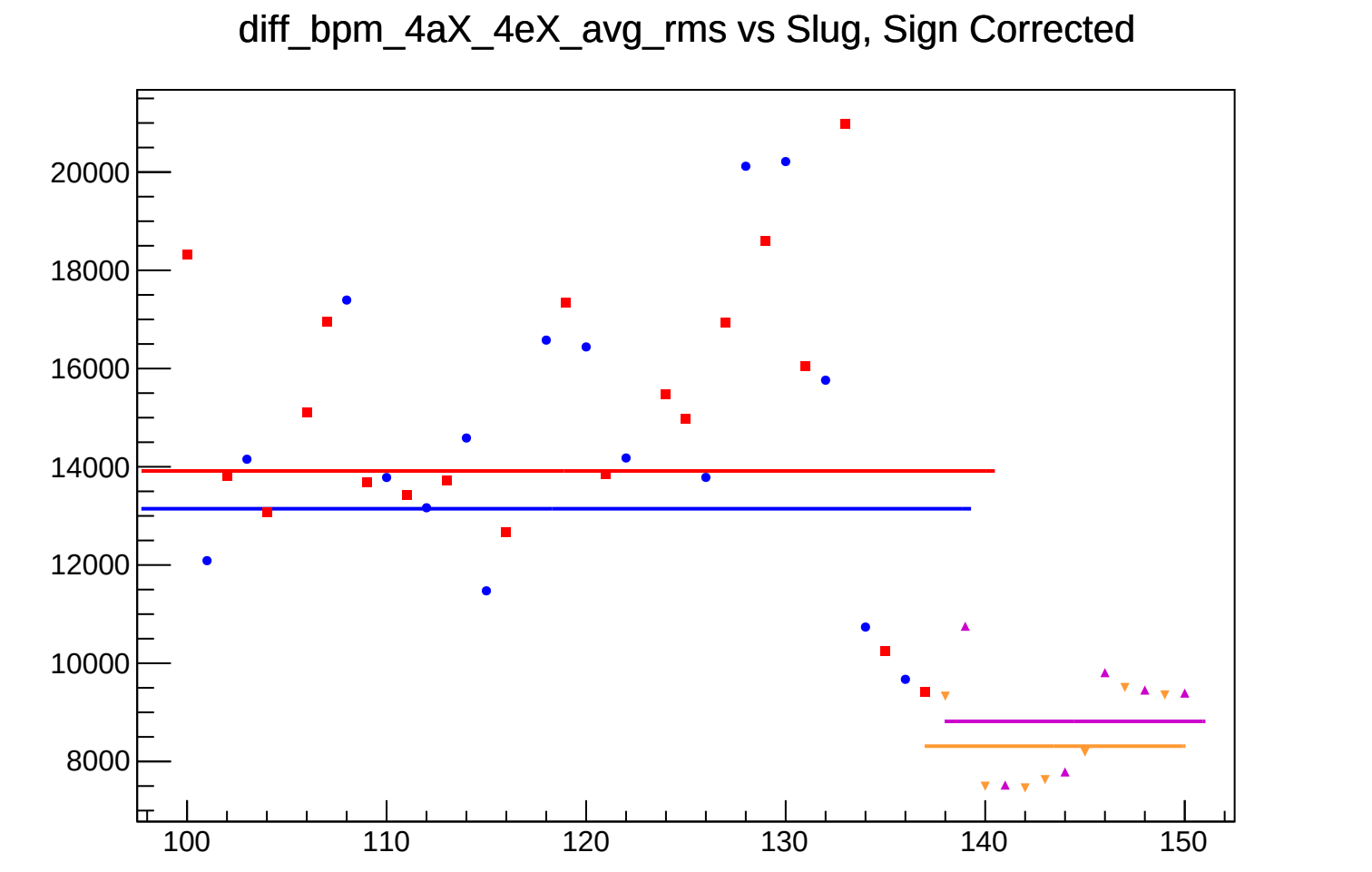
Left: -2.888+/-2.650 $\chi^2$/NDF: 26.0/12

Right: 0.753+/-3.615 $\chi^2$/NDF: 43.4/34

In: -1.003+/-3.074 $\chi^2$/NDF:29.7/21

Out: -2.187+/-2.974 $\chi^2$/NDF:40.3/25

All: -1.615+/-2.137 $\chi^2$/NDF: 70.1/47




Right In: 13145.853+/-3.561 $\chi^2$/NDF: 682620.1/15

Left Out: 8311.983+/-2.566 $\chi^2$/NDF:109399.7/6

Right Out: 13914.770+/-3.671 $\chi^2$/NDF: 511000.7/18

Left In: 8816.636+/-2.744 $\chi^2$/NDF:170955.6/5

Left: 8547.372+/-1.874 $\chi^2$/NDF: 298400.1/12

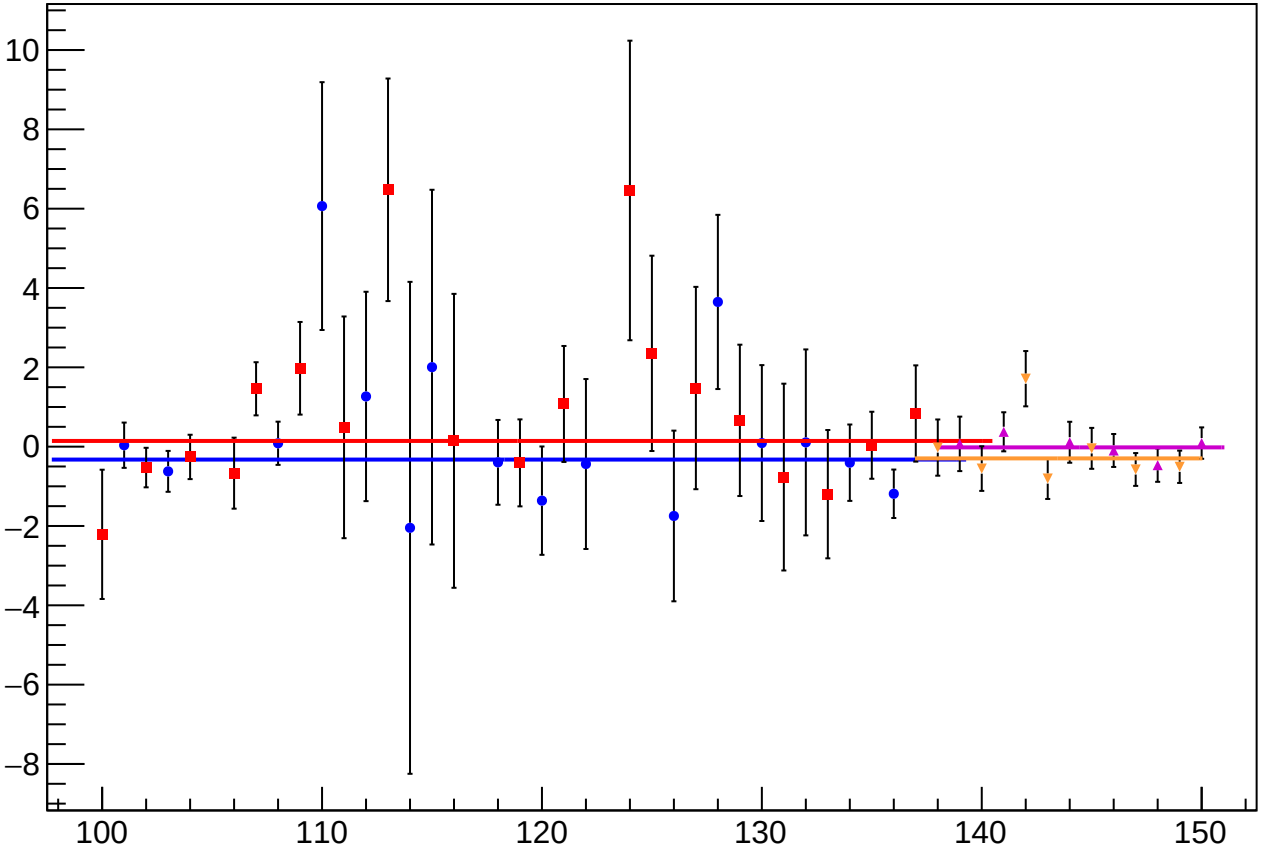
Right: 13518.600+/-2.556 $\chi^2$/NDF: 1216225.3/34

In: 10429.754+/-2.174 $\chi^2$/NDF:1780954.4/21

Out: 10150.711+/-2.103 $\chi^2$/NDF:2185334.1/25

All: 10285.628+/-1.511 $\chi^2$/NDF: 3974801.1/4

# diff_bpm_4aX_4eX_dd_mean vs Slug, Sign Corrected




Right In: -0.326+/-0.244 $\chi^2$/NDF: 12.6/15

Left Out: -0.296+/-0.194 $\chi^2$/NDF:10.6/6

Right Out: 0.144+/-0.244 $\chi^2$/NDF: 22.5/18

Left In: -0.018+/-0.190 $\chi^2$/NDF:2.0/5

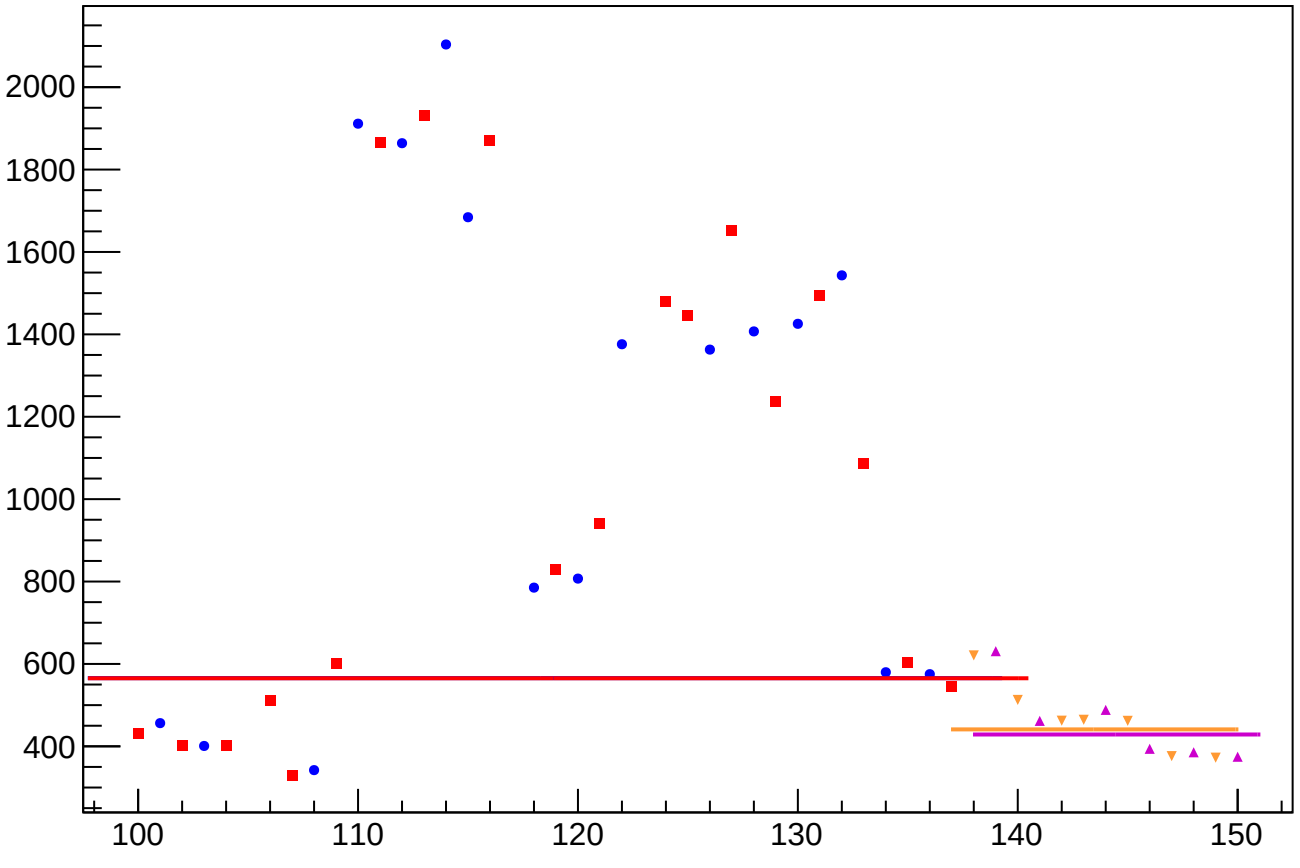
Left: -0.154+/-0.136 $\chi^2$/NDF: 13.6/12

Right: -0.091+/-0.173 $\chi^2$/NDF: 36.9/34

In: -0.134+/-0.150 $\chi^2$/NDF:15.5/21

Out: -0.126+/-0.152 $\chi^2$/NDF:35.0/25

All: -0.130+/-0.107 $\chi^2$/NDF: 50.6/47




Right In: 565.531+/-0.173 $\chi^2$/NDF: 3450533.8/15

Left Out: 441.120+/-0.137 $\chi^2$/NDF:276006.5/6

Right Out: 565.223+/-0.173 $\chi^2$/NDF: 3571620.7/18

Left In: 428.735+/-0.134 $\chi^2$/NDF:281474.9/5

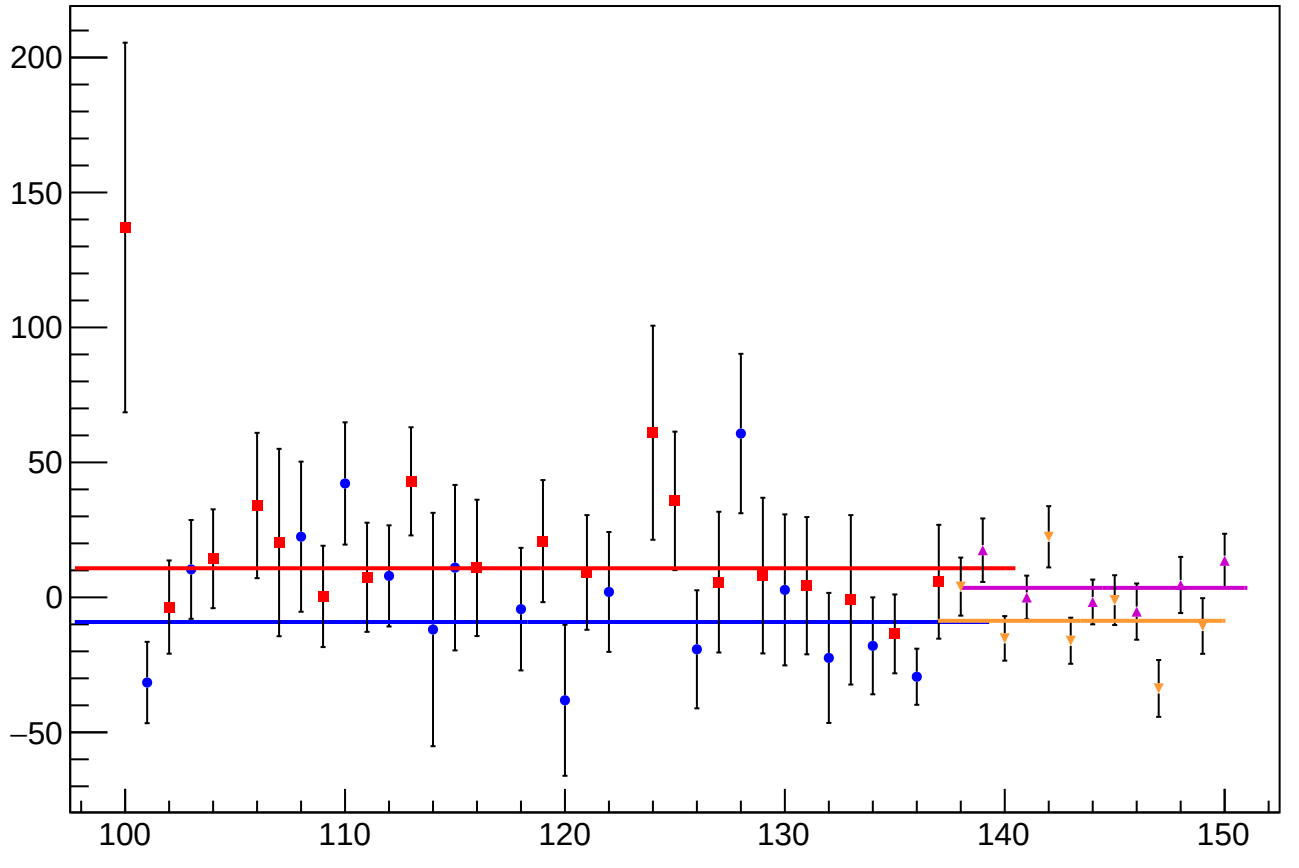
Left: 434.788+/-0.096 $\chi^2$/NDF: 561653.0/12

Right: 565.377+/-0.122 $\chi^2$/NDF: 7022156.1/34

In: 480.201+/-0.106 $\chi^2$/NDF:4123731.6/21

Out: 489.069+/-0.107 $\chi^2$/NDF:4164157.9/25

All: 484.572+/-0.075 $\chi^2$/NDF: 8291346.9/47




Right In: -9.130+/-5.069 $\chi^2$/NDF: 22.7/15

Left Out: -8.681+/-3.652 $\chi^2$/NDF:16.7/6

Right Out: 10.788+/-5.227 $\chi^2$/NDF: 13.7/18

Left In: 3.520+/-3.906 $\chi^2$/NDF:3.7/5

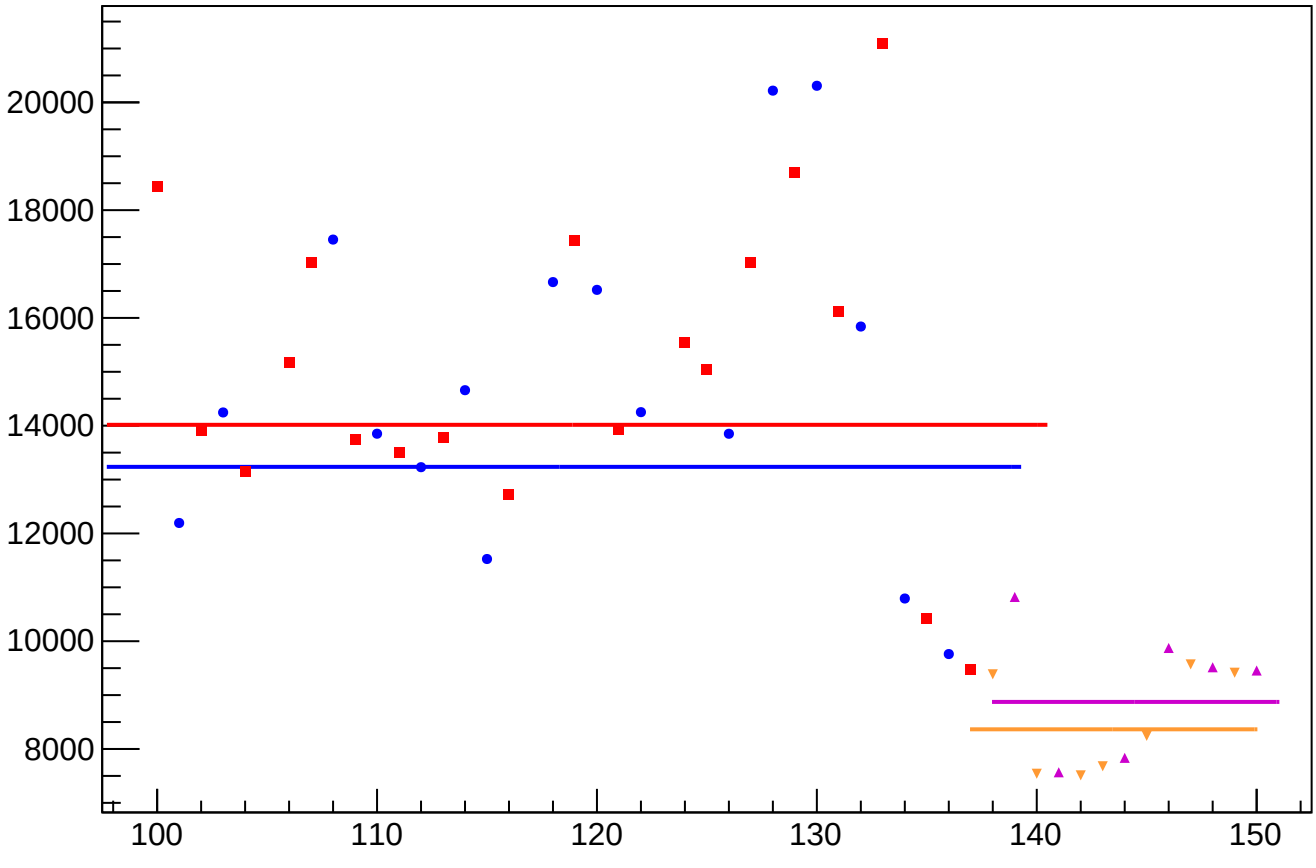
Left: -2.991+/-2.667 $\chi^2$/NDF: 25.6/12

Right: 0.523+/-3.639 $\chi^2$/NDF: 43.9/34

In: -1.193+/-3.094 $\chi^2$/NDF:30.4/21

Out: -2.297+/-2.994 $\chi^2$/NDF:39.7/25

All: -1.763+/-2.151 $\chi^2$/NDF: 70.1/47




Right In: 13235.828+/-3.585 $\chi^2$/NDF: 673887.0/15

Left Out: 8364.804+/-2.582 $\chi^2$/NDF:109538.6/6

Right Out: 14016.035+/-3.696 $\chi^2$/NDF: 498592.9/18

Left In: 8873.422+/-2.762 $\chi^2$/NDF:171274.1/5

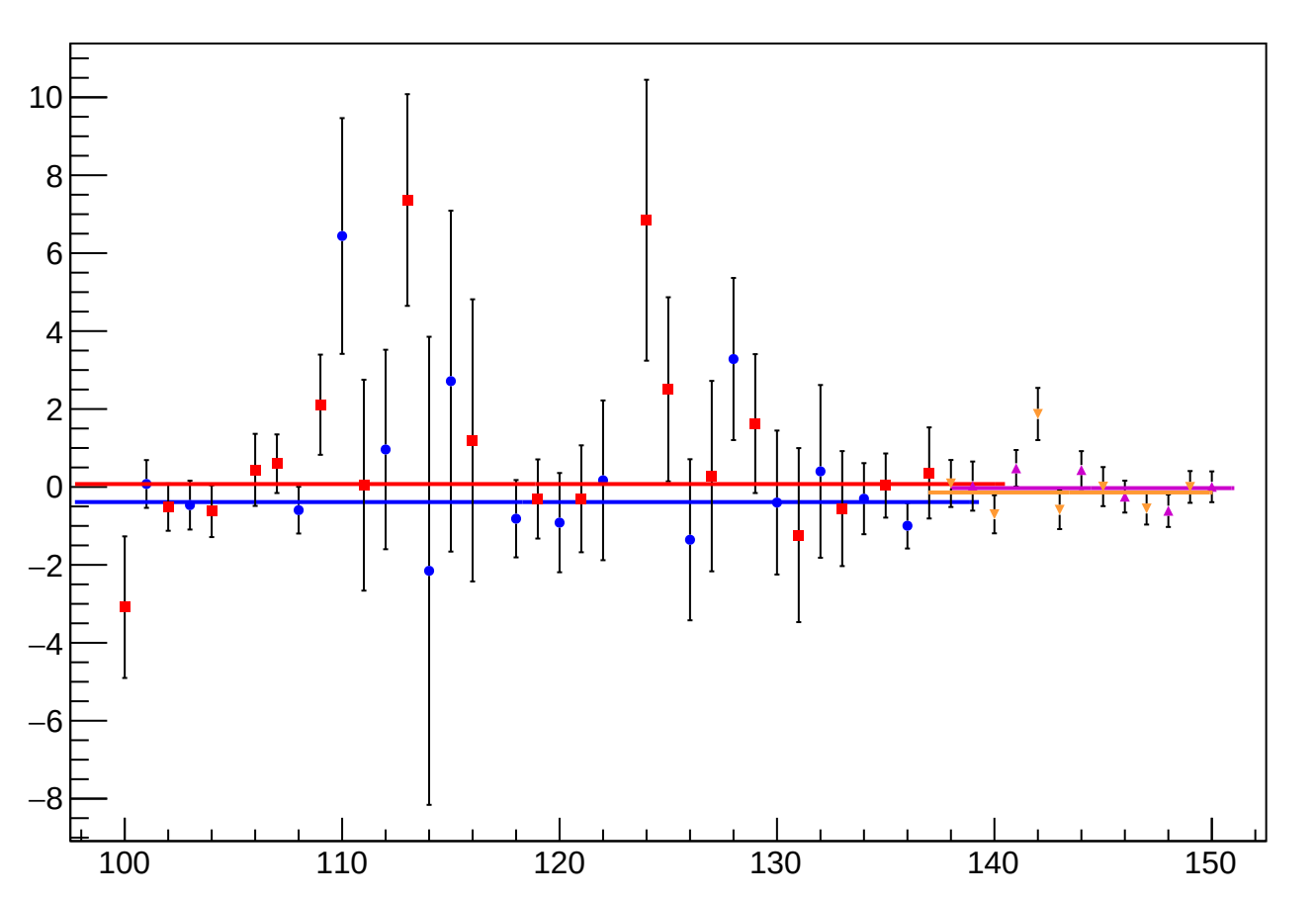
Left: 8602.020+/-1.886 $\chi^2$/NDF: 298909.3/12

Right: 13613.950+/-2.573 $\chi^2$/NDF: 1195440.4/34

In: 10498.505+/-2.188 $\chi^2$/NDF:1774542.1/21

Out: 10218.089+/-2.117 $\chi^2$/NDF:2179027.4/25

All: 10353.672+/-1.521 $\chi^2$/NDF: 3962054.7/4




Right In: -0.388+/-0.256 $\chi^2$/NDF: 11.7/15

Left Out: -0.141+/-0.185 $\chi^2$/NDF:12.5/6

Right Out: 0.075+/-0.265 $\chi^2$/NDF: 21.7/18

Left In: -0.030+/-0.184 $\chi^2$/NDF:4.3/5

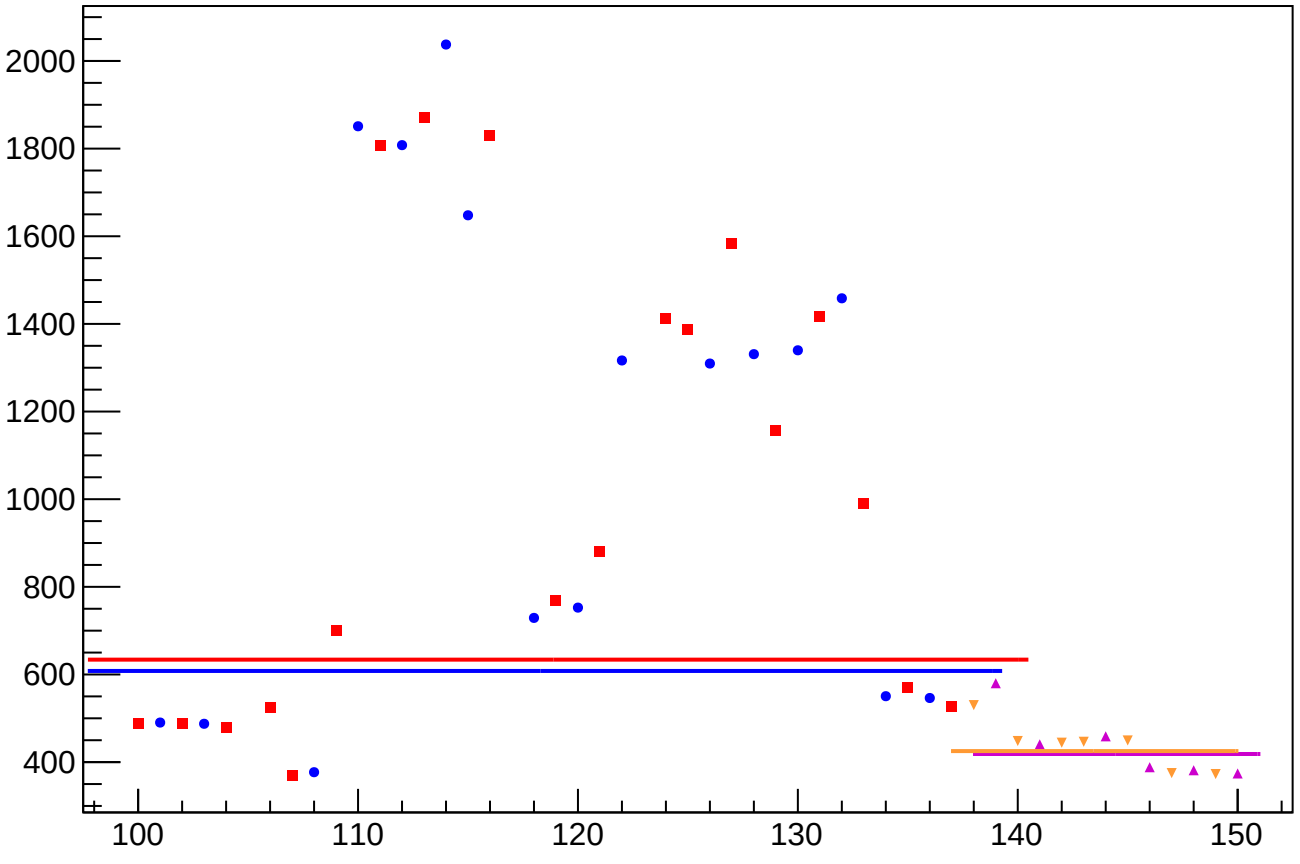
Left: -0.086+/-0.131 $\chi^2$/NDF: 17.0/12

Right: -0.164+/-0.184 $\chi^2$/NDF: 34.9/34

In: -0.152+/-0.149 $\chi^2$/NDF:17.3/21

Out: -0.070+/-0.152 $\chi^2$/NDF:34.6/25

All: -0.112+/-0.107 $\chi^2$/NDF: 52.1/47




Right In: 608.063+/-0.181 $\chi^2$/NDF: 2852722.1/15

Left Out: 425.195+/-0.131 $\chi^2$/NDF:137533.5/6

Right Out: 633.883+/-0.187 $\chi^2$/NDF: 2788449.1/18

Left In: 418.559+/-0.130 $\chi^2$/NDF:201439.7/5

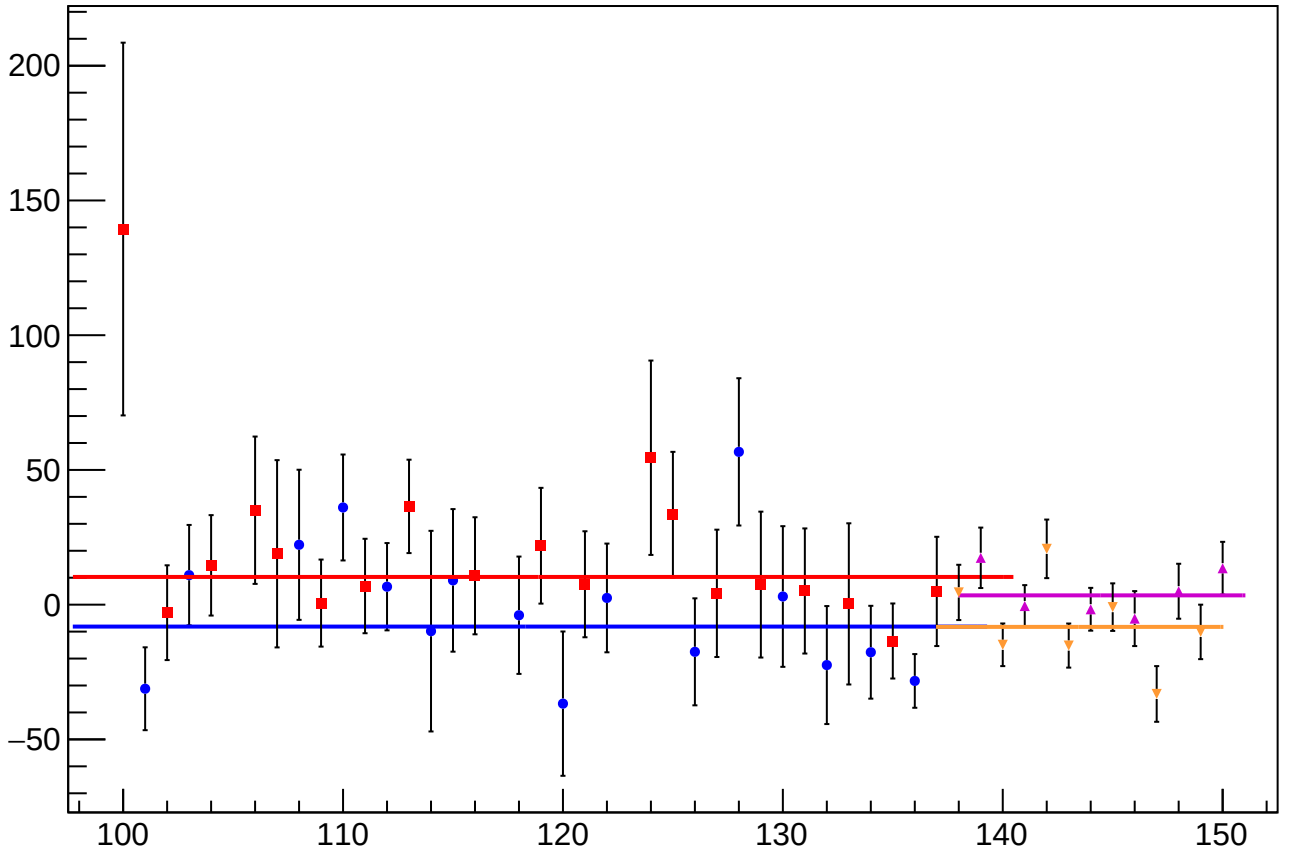
Left: 421.856+/-0.092 $\chi^2$/NDF: 340262.8/12

Right: 620.535+/-0.130 $\chi^2$/NDF: 5651022.3/34

In: 483.300+/-0.106 $\chi^2$/NDF:3777372.8/21

Out: 493.929+/-0.107 $\chi^2$/NDF:3760805.4/25

All: 488.531+/-0.075 $\chi^2$/NDF: 7543156.6/47




Right In: -8.132+/-4.779 $\chi^2$/NDF: 23.1/15

Left Out: -8.249+/-3.516 $\chi^2$/NDF:16.6/6

Right Out: 10.288+/-4.873 $\chi^2$/NDF: 13.7/18

Left In: 3.451+/-3.777 $\chi^2$/NDF:4.0/5

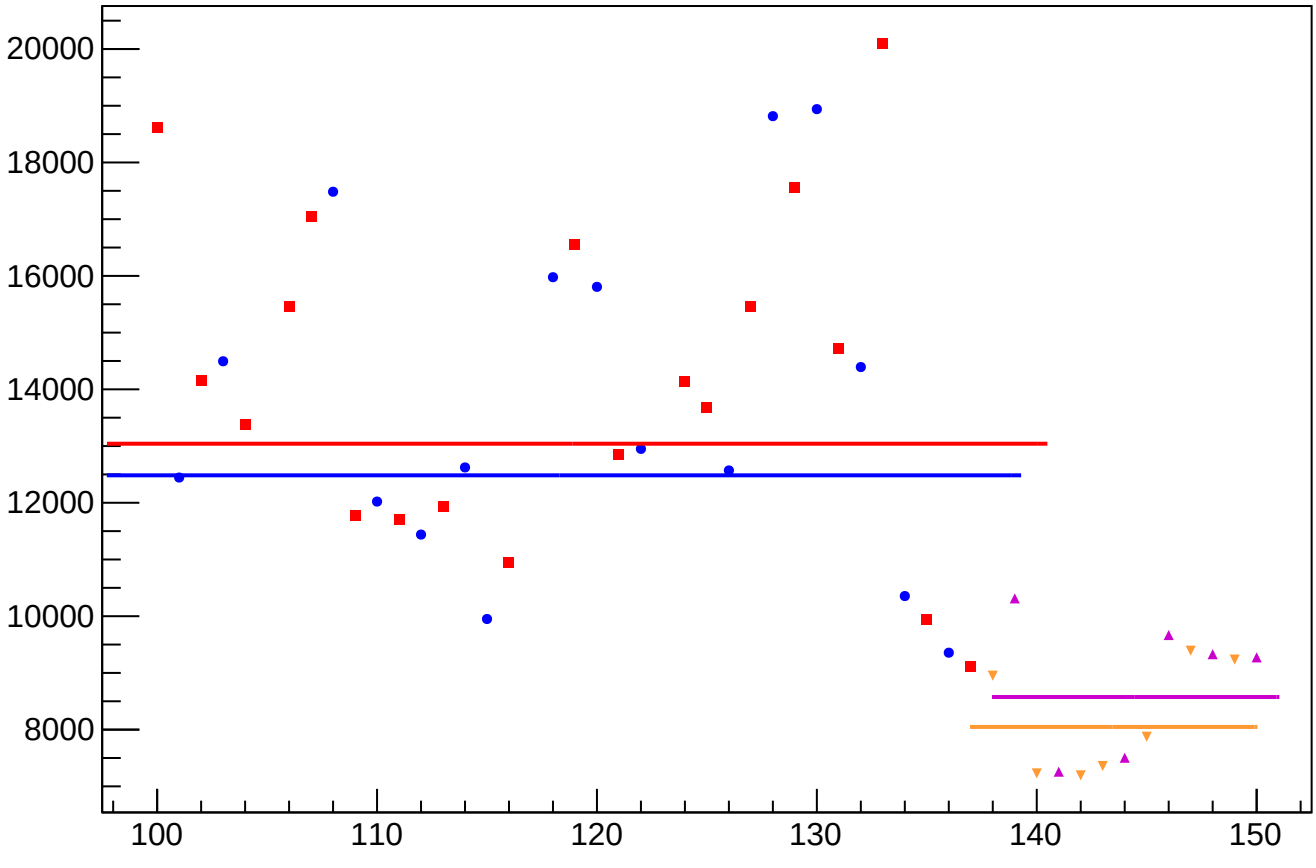
Left: -2.817+/-2.574 $\chi^2$/NDF: 25.8/12

Right: 0.898+/-3.412 $\chi^2$/NDF: 44.1/34

In: -1.003+/-2.963 $\chi^2$/NDF:30.8/21

Out: -1.903+/-2.852 $\chi^2$/NDF:39.8/25

All: -1.470+/-2.055 $\chi^2$/NDF: 70.6/47




Right In: 12483.955+/-3.379 $\chi^2$/NDF: 671560.0/15

Left Out: 8047.415+/-2.486 $\chi^2$/NDF:125673.1/6

Right Out: 13041.241+/-3.446 $\chi^2$/NDF: 544486.8/18

Left In: 8575.203+/-2.671 $\chi^2$/NDF:186213.0/5

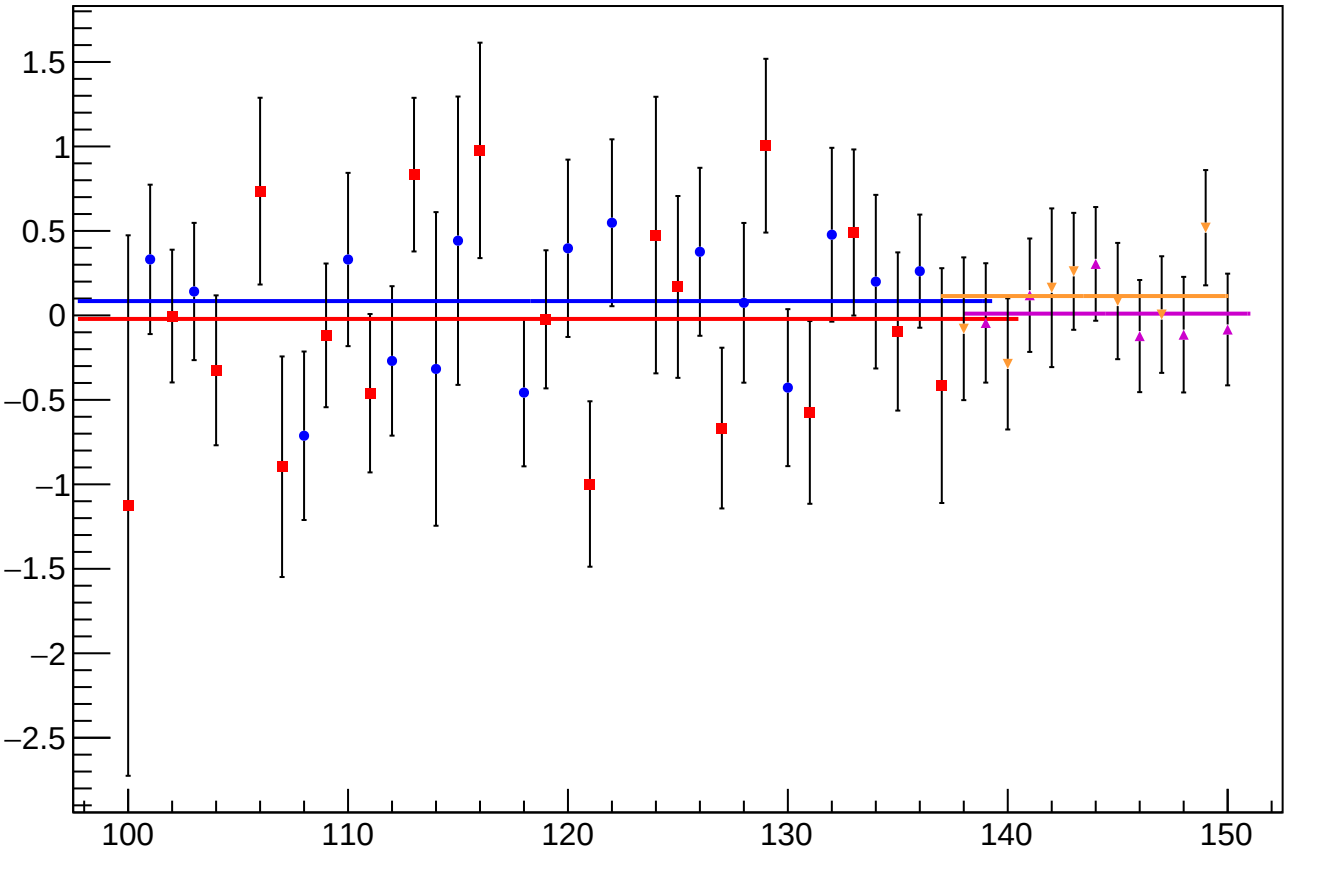
Left: 8292.450+/-1.820 $\chi^2$/NDF: 332805.6/12

Right: 12757.154+/-2.413 $\chi^2$/NDF: 1229378.8/34

In: 10078.095+/-2.095 $\chi^2$/NDF:1681244.0/21

Out: 9757.123+/-2.016 $\chi^2$/NDF:2051240.4/25

All: 9911.436+/-1.453 $\chi^2$/NDF: 3744667.3/47




Right In: 0.085+/-0.120 $\chi^2$/NDF: 9.4/15

Left Out: 0.115+/-0.141 $\chi^2$/NDF:3.0/6

Right Out: -0.021+/-0.117 $\chi^2$/NDF: 24.3/18

Left In: 0.010+/-0.138 $\chi^2$/NDF:1.3/5

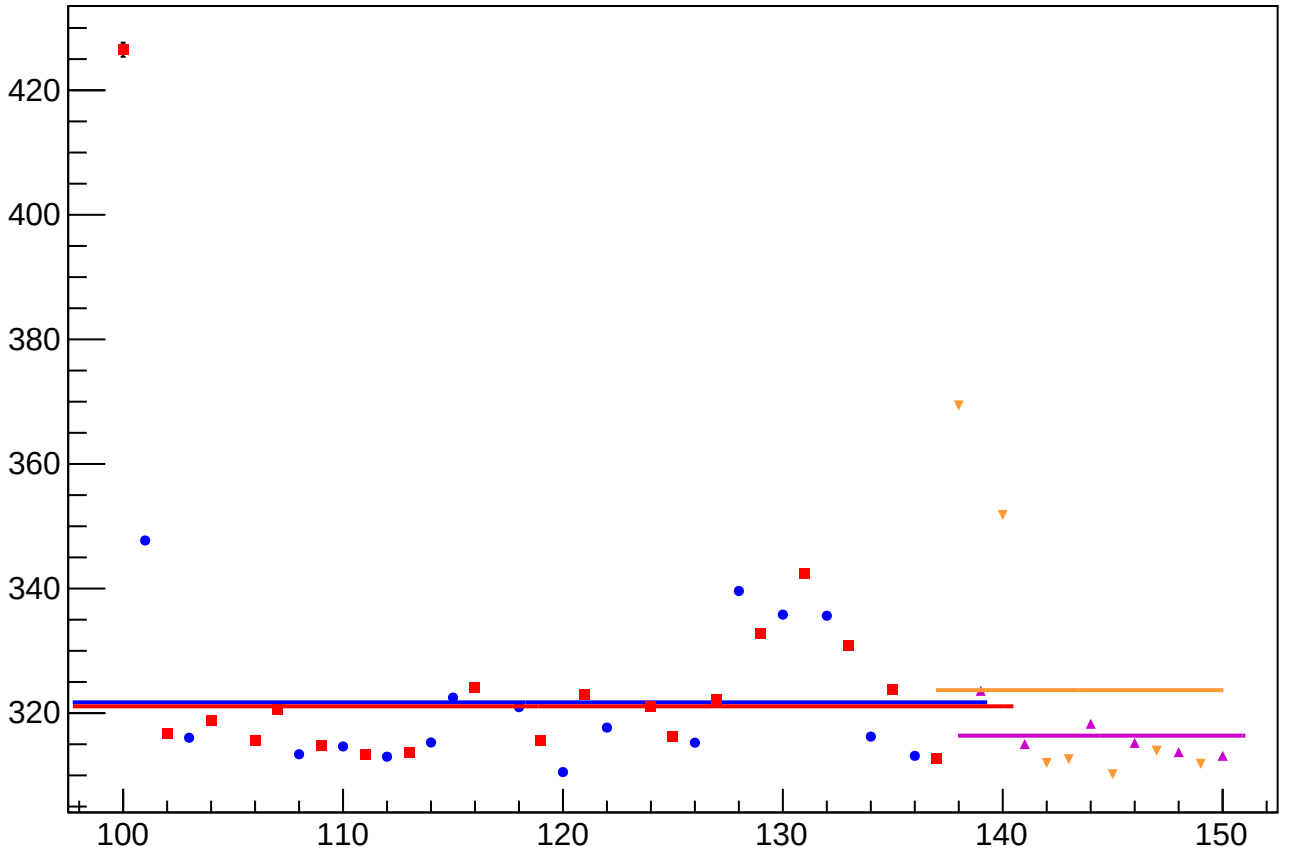
Left: 0.061+/-0.099 $\chi^2$/NDF: 4.5/12

Right: 0.031+/-0.084 $\chi^2$/NDF: 34.1/34

In: 0.053+/-0.091 $\chi^2$/NDF:10.8/21

Out: 0.035+/-0.090 $\chi^2$/NDF:27.8/25

All: 0.044+/-0.064 $\chi^2$/NDF: 38.7/47




Right In: 321.727+/-0.085 $\chi^2$/NDF: 18214.6/15

Left Out: 323.685+/-0.099 $\chi^2$/NDF:44265.3/6

Right Out: 321.093+/-0.083 $\chi^2$/NDF: 16579.3/18

Left In: 316.383+/-0.098 $\chi^2$/NDF:1261.7/5

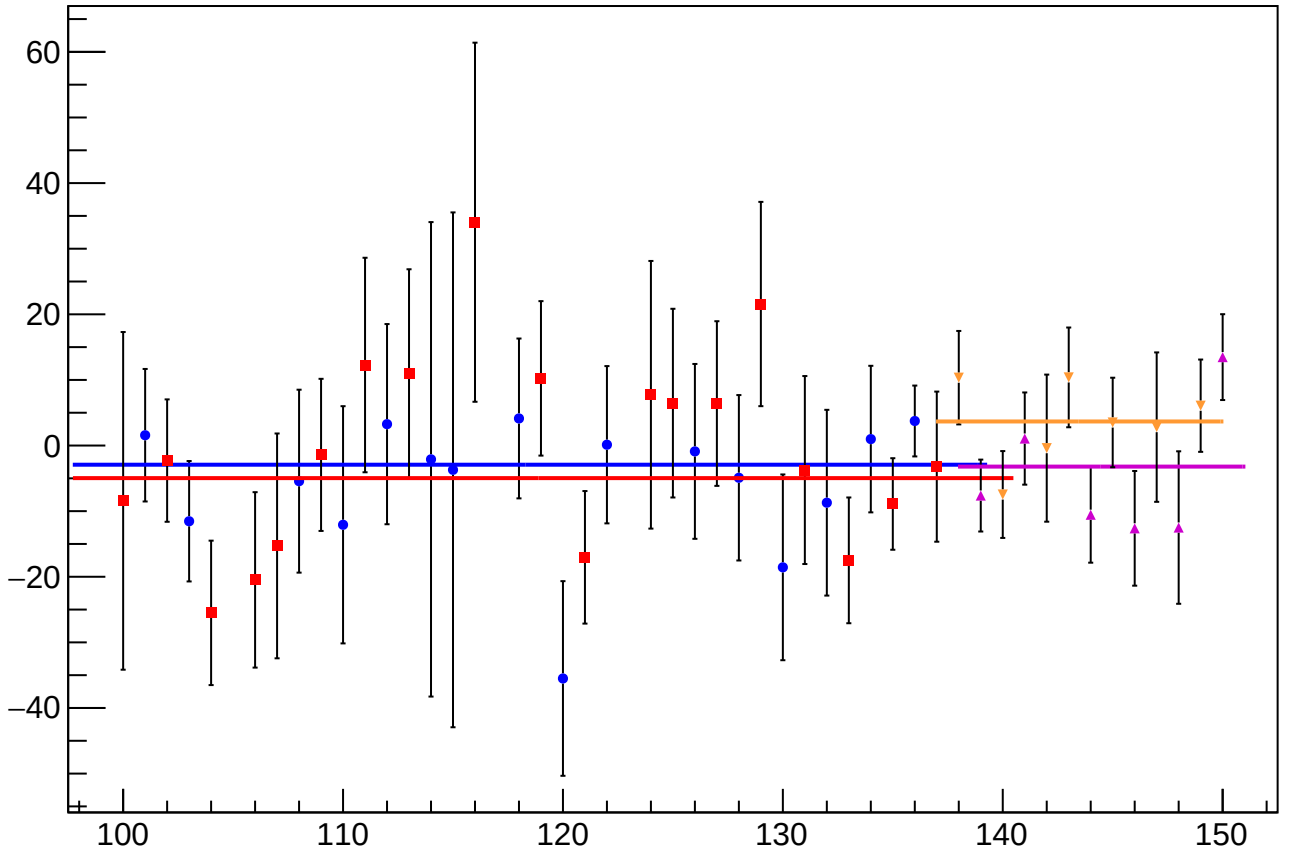
Left: 319.965+/-0.070 $\chi^2$/NDF: 48272.7/12

Right: 321.403+/-0.059 $\chi^2$/NDF: 34822.5/34

In: 319.423+/-0.064 $\chi^2$/NDF:21181.9/21

Out: 322.158+/-0.064 $\chi^2$/NDF:61244.7/25

All: 320.798+/-0.045 $\chi^2$/NDF: 83341.7/47




Right In: -2.922+/-2.910 $\chi^2$/NDF: 9.8/15

Left Out: 3.669+/-2.921 $\chi^2$/NDF:4.7/6

Right Out: -4.965+/-2.824 $\chi^2$/NDF: 19.4/18

Left In: -3.210+/-2.934 $\chi^2$/NDF:10.3/5

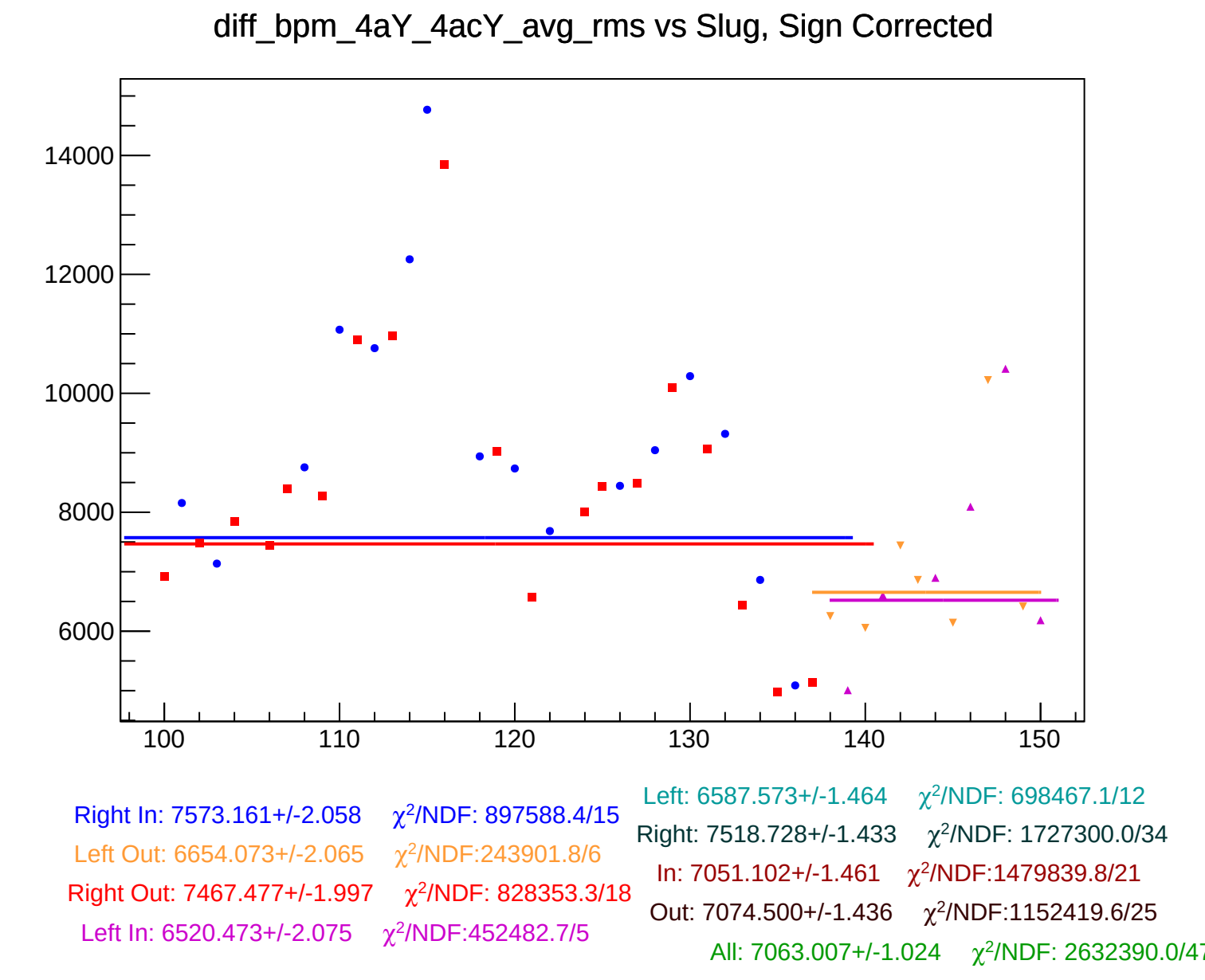
Left: 0.245+/-2.070 $\chi^2$/NDF: 17.8/12

Right: -3.974+/-2.027 $\chi^2$/NDF: 29.5/34

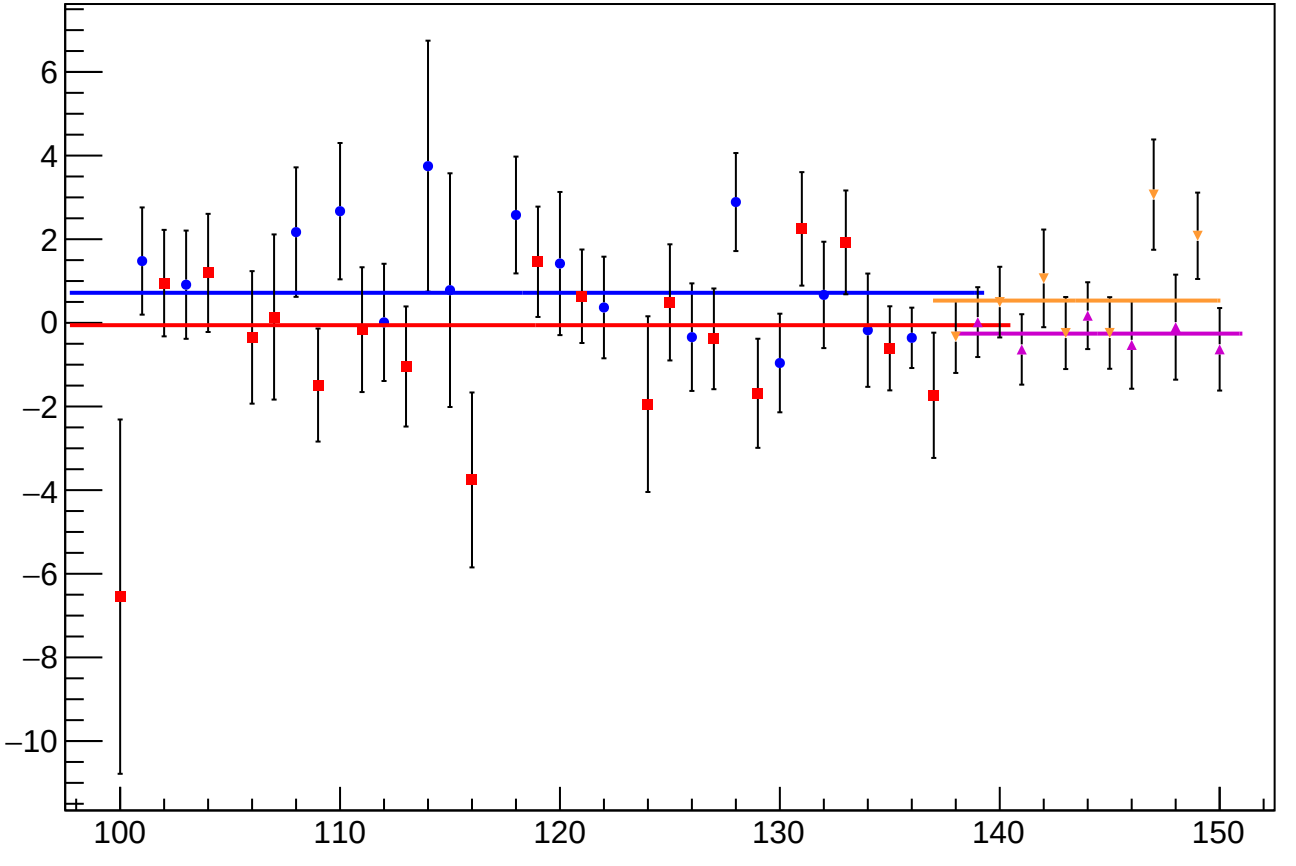
In: -3.065+/-2.066 $\chi^2$/NDF:20.2/21

Out: -0.794+/-2.030 $\chi^2$/NDF:28.7/25

All: -1.909+/-1.448 $\chi^2$/NDF: 49.5/47


diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
Right In: 7573.161+/-2.058 χ²/NDF: 897588.4/15
Left Out: 6654.073+/-2.065 χ²/NDF:243901.8/6
Right Out: 7467.477+/-1.997 χ²/NDF: 828353.3/18
Left In: 6520.473+/-2.075 χ²/NDF:452482.7/5
Left: 6587.573+/-1.464 χ²/NDF: 698467.1/12
Right: 7518.728+/-1.433 χ²/NDF: 1727300.0/34
In: 7051.102+/-1.461 χ²/NDF:1479839.8/21
Out: 7074.500+/-1.436 χ²/NDF:1152419.6/25
All: 7063.007+/-1.024 χ²/NDF: 2632390.0/47

# diff_bpm_4aY_4acY_dd_mean vs Slug, Sign Corrected




Right In: 0.719+/-0.326 $\chi^2$/NDF: 14.8/15

Left Out: 0.533+/-0.361 $\chi^2$/NDF:8.8/6

Right Out: -0.056+/-0.323 $\chi^2$/NDF: 19.8/18

Left In: -0.257+/-0.378 $\chi^2$/NDF:0.8/5

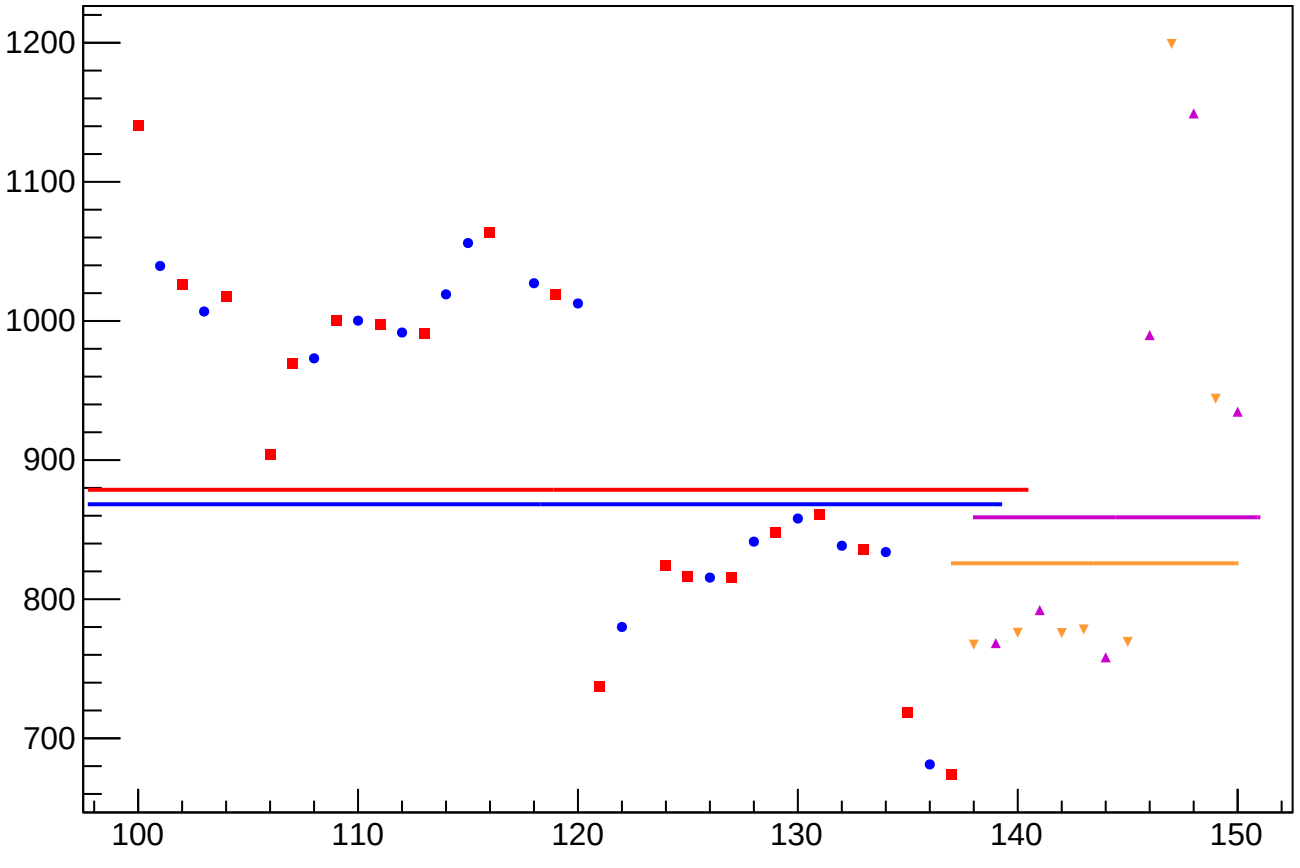
Left: 0.157+/-0.261 $\chi^2$/NDF: 11.9/12

Right: 0.329+/-0.230 $\chi^2$/NDF: 37.4/34

In: 0.303+/-0.247 $\chi^2$/NDF:19.4/21

Out: 0.207+/-0.241 $\chi^2$/NDF:30.0/25

All: 0.254+/-0.172 $\chi^2$/NDF: 49.6/47




Right In: 868.253+/-0.230 $\chi^2$/NDF: 302409.6/15

Left Out: 825.797+/-0.255 $\chi^2$/NDF:221072.2/6

Right Out: 878.658+/-0.229 $\chi^2$/NDF: 272530.7/18

Left In: 858.881+/-0.268 $\chi^2$/NDF:217735.8/5

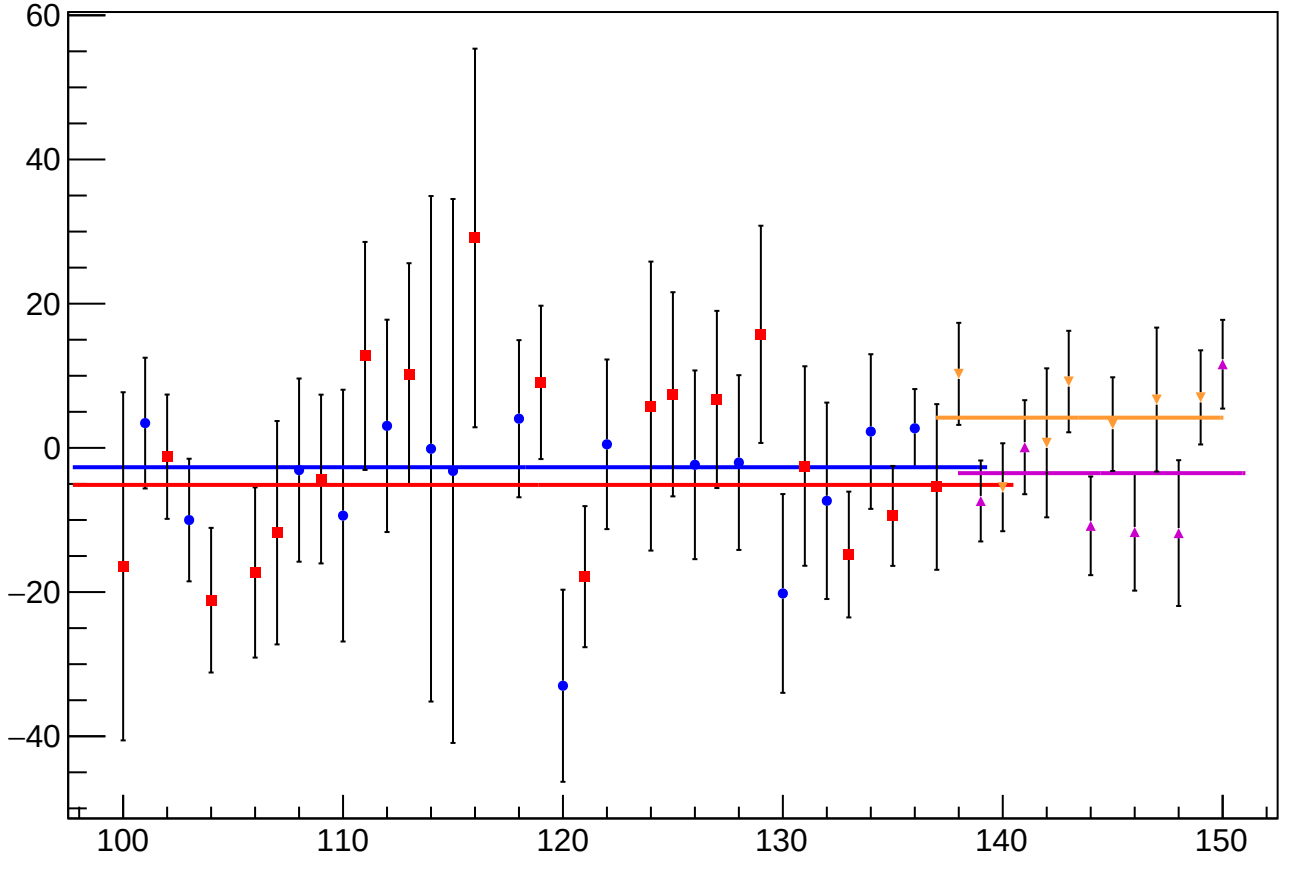
Left: 841.546+/-0.185 $\chi^2$/NDF: 446815.8/12

Right: 873.496+/-0.162 $\chi^2$/NDF: 575967.6/34

In: 864.262+/-0.175 $\chi^2$/NDF:520849.6/21

Out: 855.107+/-0.170 $\chi^2$/NDF:517414.7/25

All: 859.569+/-0.122 $\chi^2$/NDF: 1039673.1/47




Right In: -2.683+/-2.788 $\chi^2$/NDF: 10.1/15

Left Out: 4.190+/-2.736 $\chi^2$/NDF:4.1/6

Right Out: -5.136+/-2.692 $\chi^2$/NDF: 17.3/18

Left In: -3.505+/-2.796 $\chi^2$/NDF:9.6/5

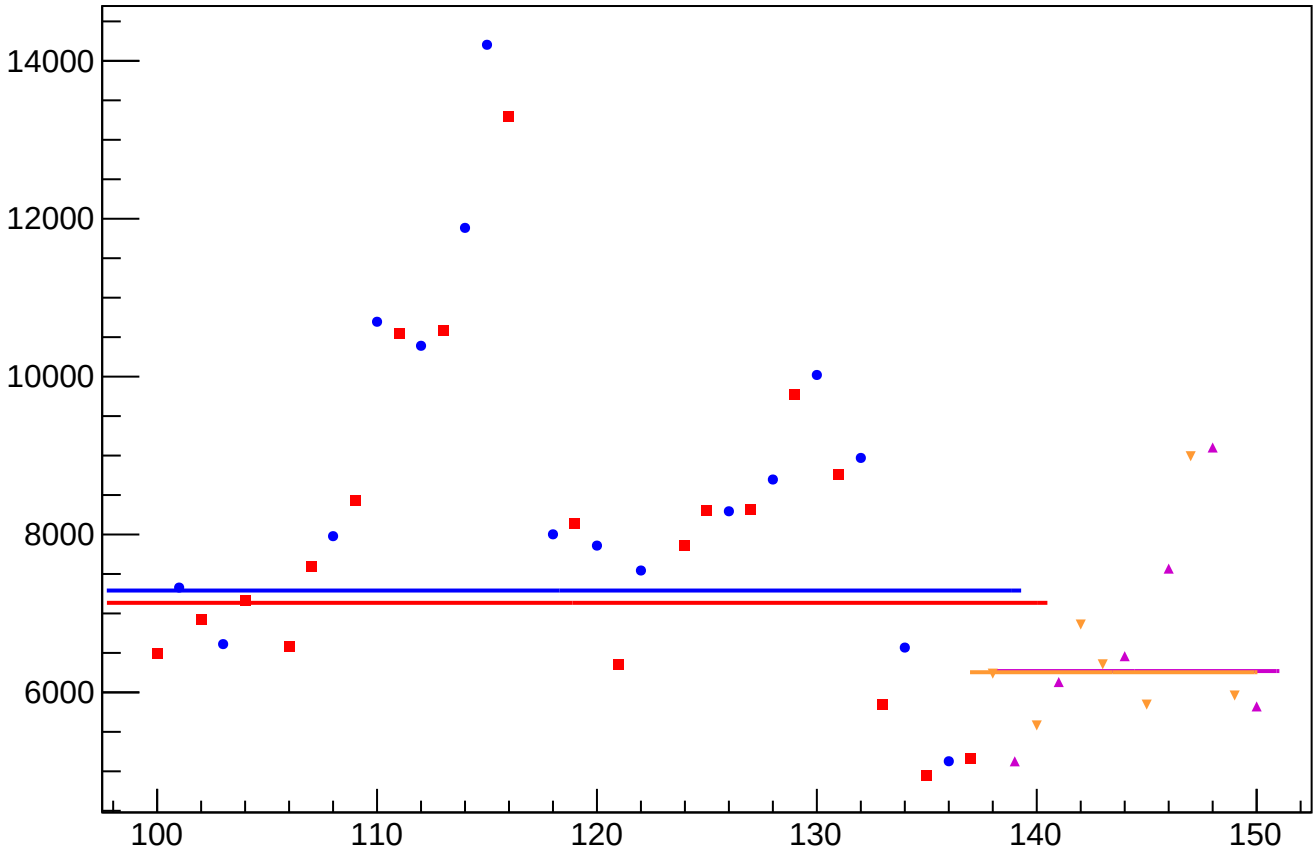
Left: 0.425+/-1.956 $\chi^2$/NDF: 17.6/12

Right: -3.953+/-1.937 $\chi^2$/NDF: 27.7/34

In: -3.093+/-1.974 $\chi^2$/NDF:19.7/21

Out: -0.549+/-1.919 $\chi^2$/NDF:27.3/25

All: -1.785+/-1.376 $\chi^2$/NDF: 47.9/47




Right In: 7290.246+/-1.972 $\chi^2$/NDF: 770518.2/15

Left Out: 6255.247+/-1.935 $\chi^2$/NDF:193843.9/6

Right Out: 7134.411+/-1.903 $\chi^2$/NDF: 792788.1/18

Left In: 6270.124+/-1.977 $\chi^2$/NDF:303840.8/5

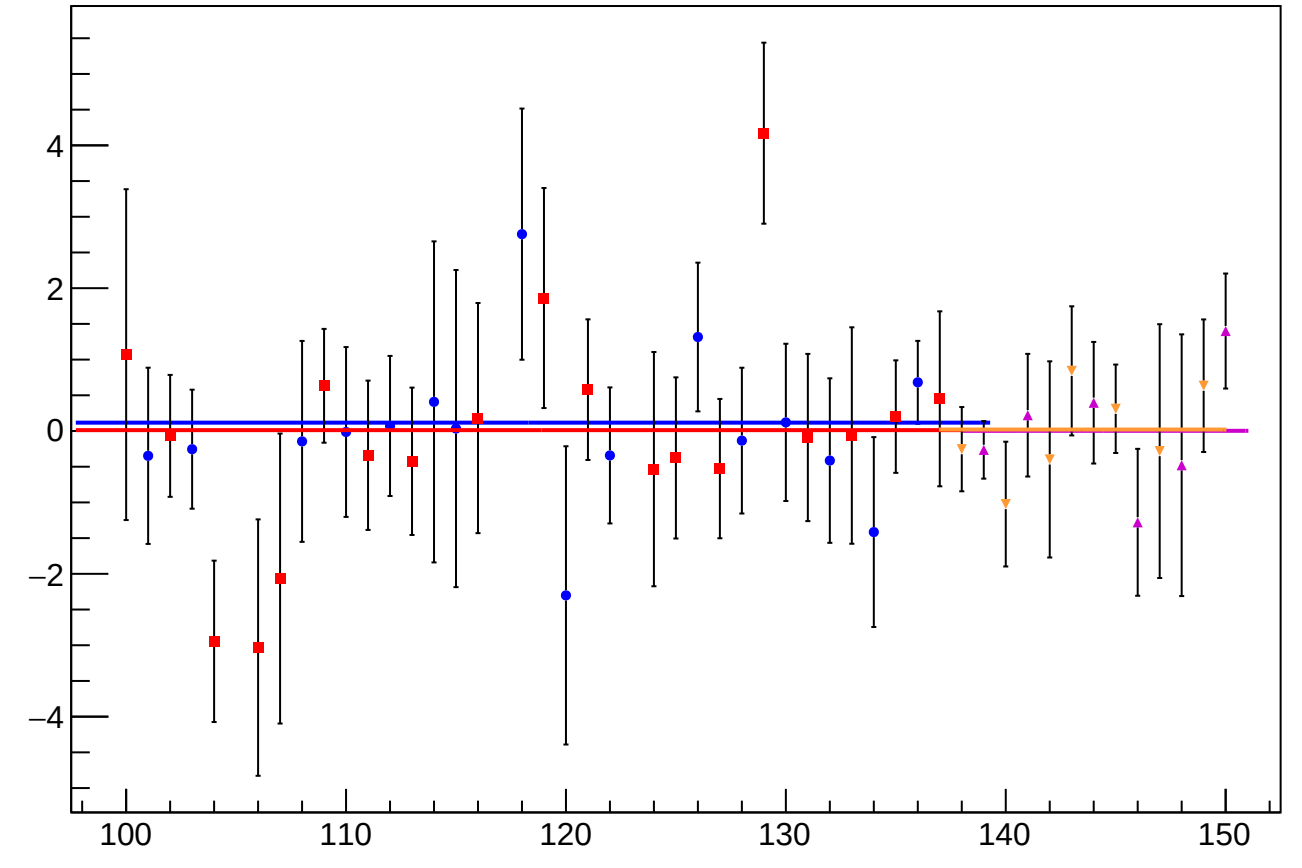
Left: 6262.525+/-1.383 $\chi^2$/NDF: 497713.6/12

Right: 7209.592+/-1.369 $\chi^2$/NDF: 1566539.8/34

In: 6781.595+/-1.396 $\chi^2$/NDF:1207852.1/21

Out: 6702.009+/-1.357 $\chi^2$/NDF:1091553.3/25

All: 6740.672+/-0.973 $\chi^2$/NDF: 2301076.5/47




Right In: 0.117+/-0.273 $\chi^2$/NDF: 8.1/15

Left Out: 0.021+/-0.316 $\chi^2$/NDF:3.3/6

Right Out: 0.012+/-0.263 $\chi^2$/NDF: 25.2/18

Left In: 0.003+/-0.293 $\chi^2$/NDF:5.3/5

Left: 0.011+/-0.215 $\chi^2$/NDF: 8.6/12

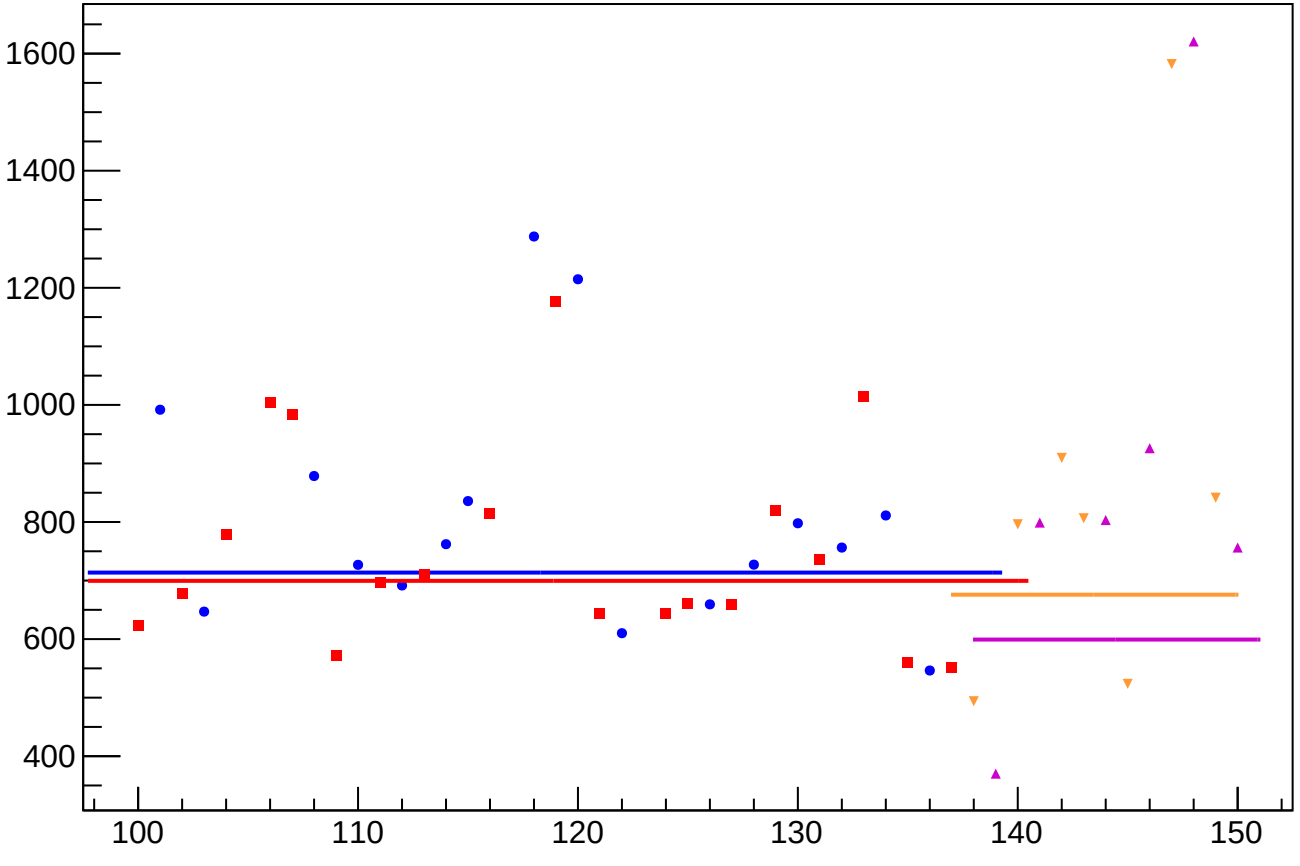
Right: 0.063+/-0.190 $\chi^2$/NDF: 33.4/34

In: 0.064+/-0.200 $\chi^2$/NDF:13.5/21

Out: 0.016+/-0.202 $\chi^2$/NDF:28.4/25

All: 0.040+/-0.142 $\chi^2$/NDF: 42.0/47

# diff_bpm_4aY_4eY_dd_rms vs Slug, Sign Corrected




Right In: 713.627+/-0.193 $\chi^2$/NDF: 699303.9/15

Left Out: 675.853+/-0.223 $\chi^2$/NDF:1032874.4/6

Right Out: 699.502+/-0.186 $\chi^2$/NDF: 575759.9/18

Left In: 599.216+/-0.207 $\chi^2$/NDF:1767891.4/5

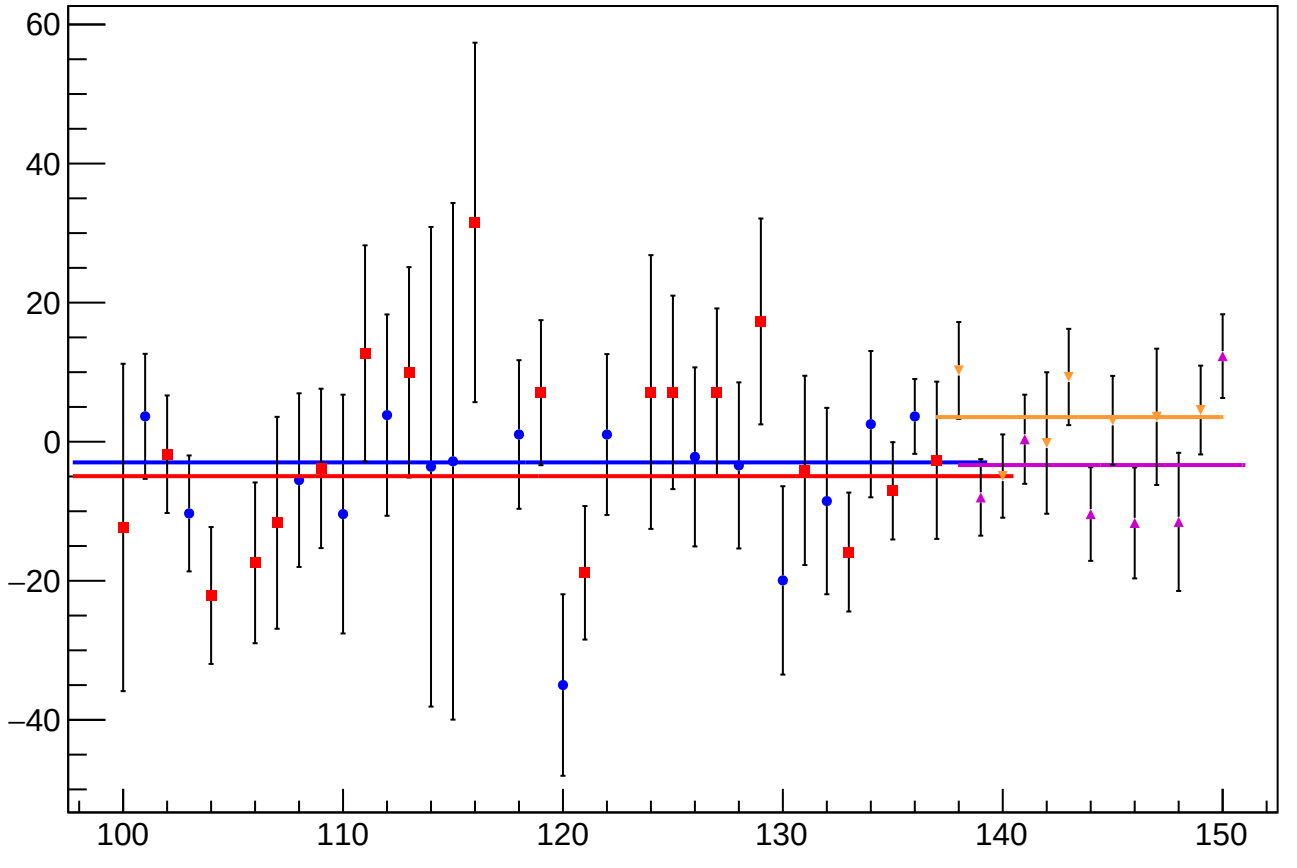
Left: 634.631+/-0.152 $\chi^2$/NDF: 2864109.2/12

Right: 706.303+/-0.134 $\chi^2$/NDF: 1277836.8/34

In: 660.374+/-0.141 $\chi^2$/NDF:2630500.9/21

Out: 689.809+/-0.143 $\chi^2$/NDF:1615252.2/25

All: 674.910+/-0.100 $\chi^2$/NDF: 4267207.0/47




Right In: -2.974+/-2.746 $\chi^2$/NDF: 11.6/15

Left Out: 3.541+/-2.688 $\chi^2$/NDF:3.8/6

Right Out: -4.955+/-2.653 $\chi^2$/NDF: 18.5/18

Left In: -3.356+/-2.743 $\chi^2$/NDF:10.7/5

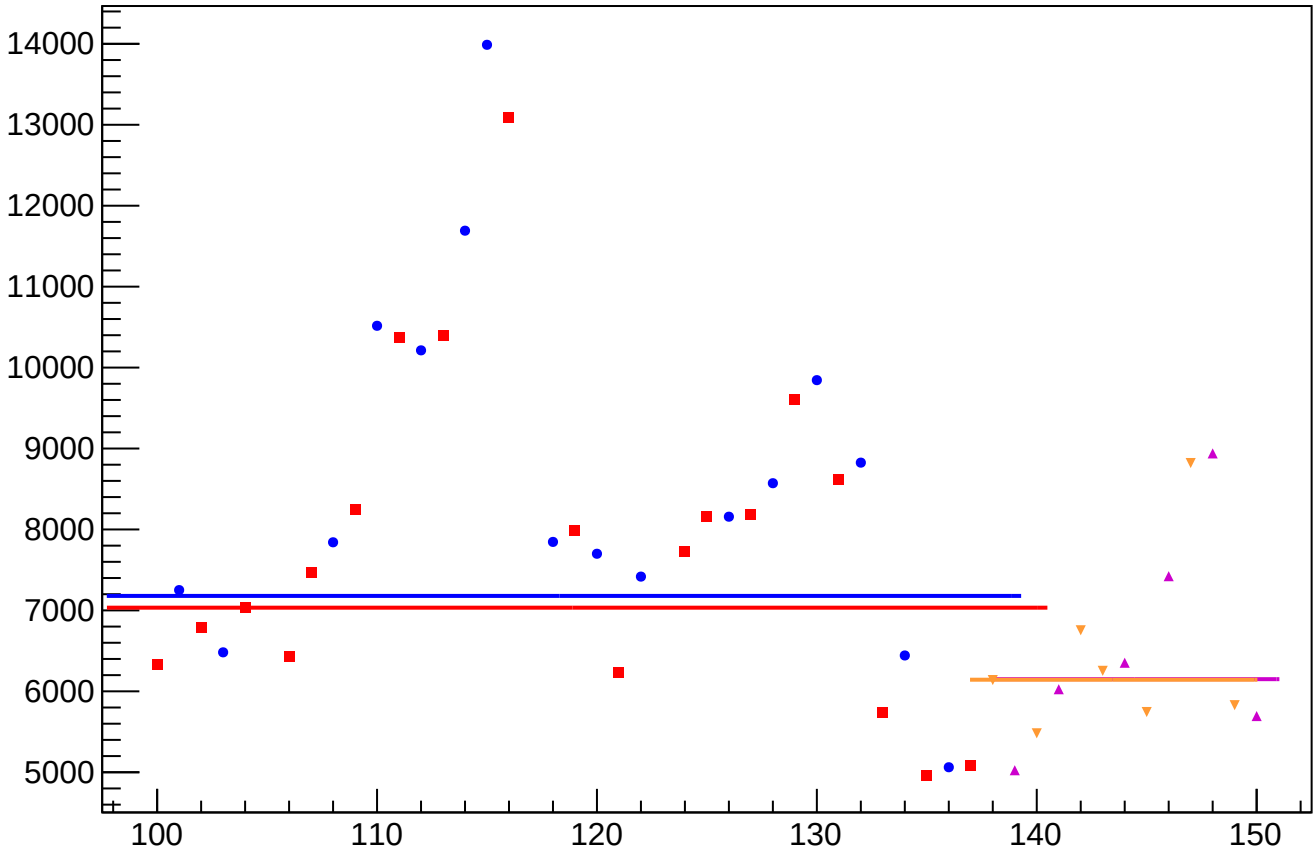
Left: 0.163+/-1.920 $\chi^2$/NDF: 17.7/12

Right: -3.999+/-1.908 $\chi^2$/NDF: 30.3/34

In: -3.165+/-1.941 $\chi^2$/NDF:22.3/21

Out: -0.762+/-1.888 $\chi^2$/NDF:27.3/25

All: -1.930+/-1.353 $\chi^2$/NDF: 50.4/47




Right In: 7178.925+/-1.942 $\chi^2$/NDF: 761936.2/15

Left Out: 6143.519+/-1.900 $\chi^2$/NDF:194072.6/6

Right Out: 7033.538+/-1.876 $\chi^2$/NDF: 766389.2/18

Left In: 6150.283+/-1.940 $\chi^2$/NDF:306151.9/5

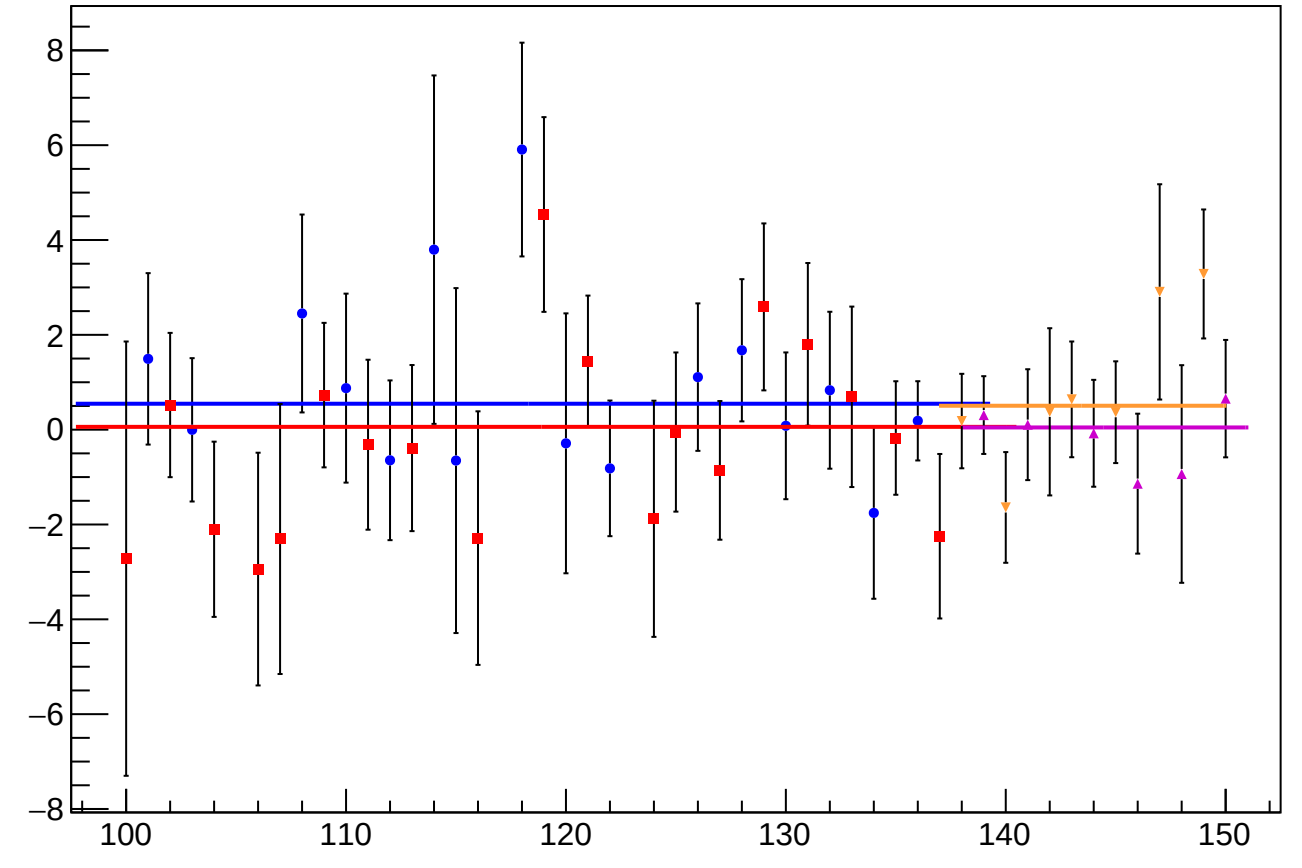
Left: 6146.831+/-1.358 $\chi^2$/NDF: 500230.7/12

Right: 7103.732+/-1.349 $\chi^2$/NDF: 1531224.9/34

In: 6664.103+/-1.372 $\chi^2$/NDF:1208542.4/21

Out: 6594.268+/-1.335 $\chi^2$/NDF:1071538.5/25

All: 6628.225+/-0.957 $\chi^2$/NDF: 2281411.3/47




Right In: 0.547+/-0.411 $\chi^2$/NDF: 11.9/15

Left Out: 0.505+/-0.480 $\chi^2$/NDF:8.8/6

Right Out: 0.059+/-0.409 $\chi^2$/NDF: 16.9/18

Left In: 0.047+/-0.482 $\chi^2$/NDF:1.2/5

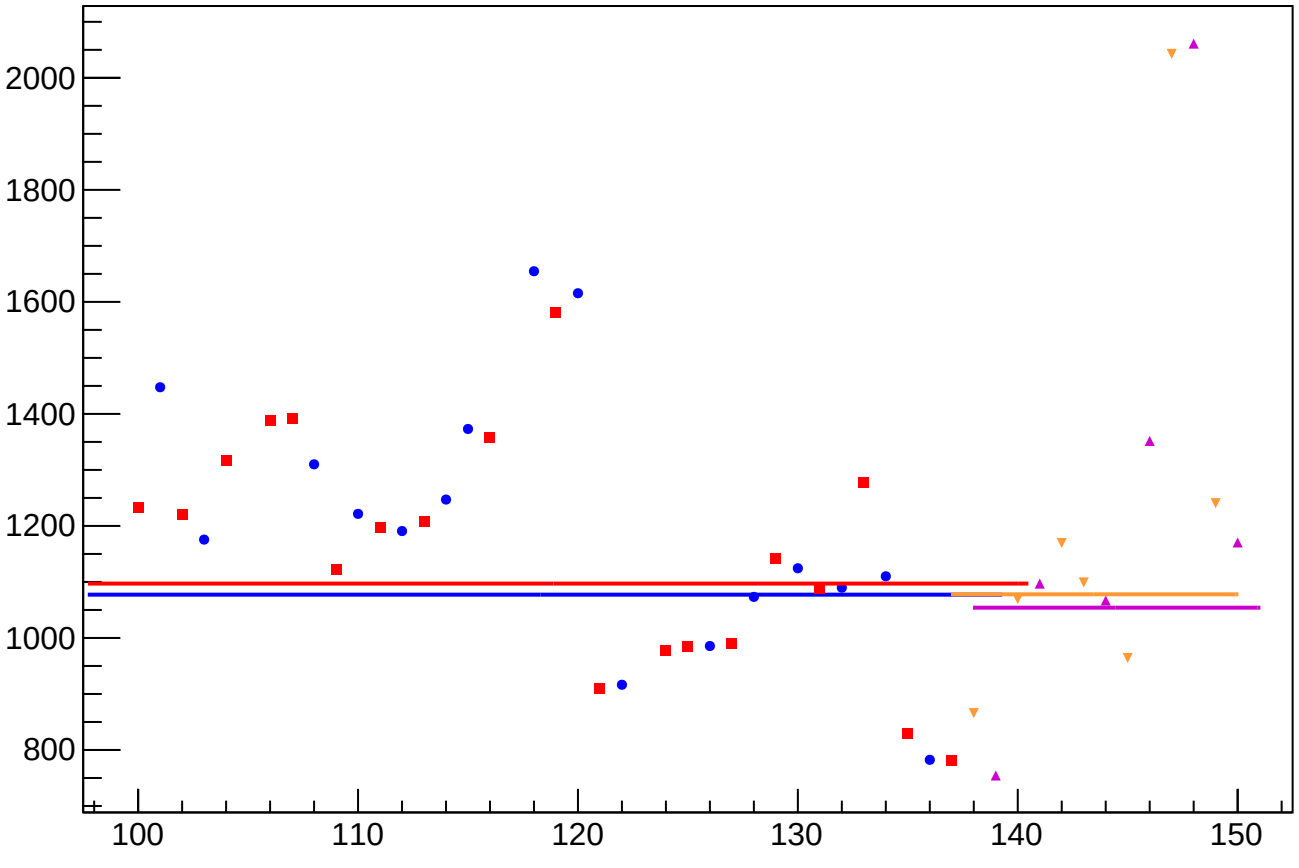
Left: 0.276+/-0.340 $\chi^2$/NDF: 10.4/12

Right: 0.302+/-0.290 $\chi^2$/NDF: 29.5/34

In: 0.336+/-0.313 $\chi^2$/NDF:13.7/21

Out: 0.246+/-0.311 $\chi^2$/NDF:26.2/25

All: 0.291+/-0.221 $\chi^2$/NDF: 40.0/47




Right In: 1077.306+/-0.291 $\chi^2$/NDF: 646521.7/15

Left Out: 1077.925+/-0.340 $\chi^2$/NDF:509058.3/6

Right Out: 1097.108+/-0.289 $\chi^2$/NDF: 484370.7/18

Left In: 1054.058+/-0.341 $\chi^2$/NDF:754095.5/5

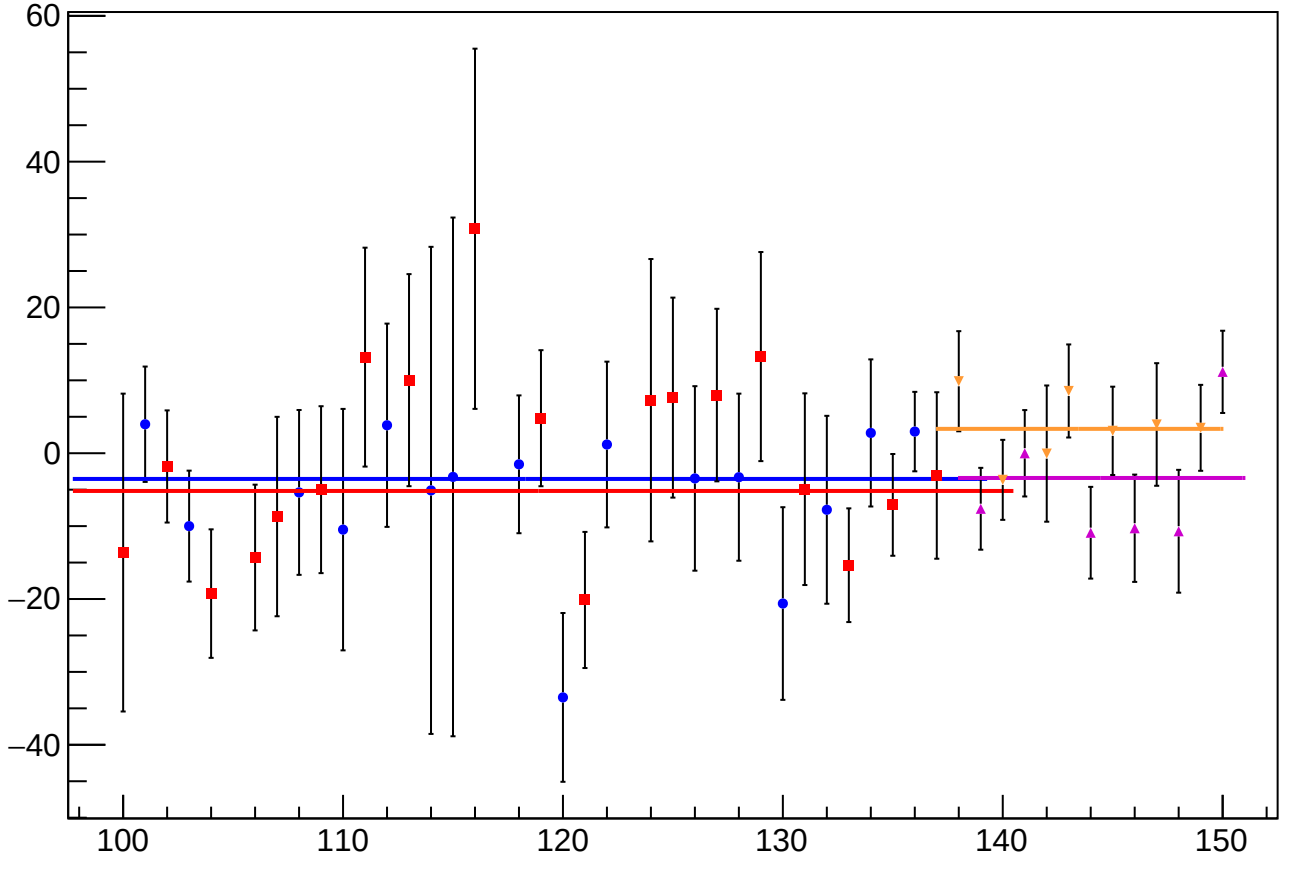
Left: 1066.033+/-0.241 $\chi^2$/NDF: 1265615.7/12

Right: 1087.256+/-0.205 $\chi^2$/NDF: 1133226.7/34

In: 1067.518+/-0.221 $\chi^2$/NDF:1403312.7/21

Out: 1089.045+/-0.220 $\chi^2$/NDF:995279.5/25

All: 1078.328+/-0.156 $\chi^2$/NDF: 2403353.7/47




Right In: -3.527+/-2.608 $\chi^2$/NDF: 12.6/15

Left Out: 3.343+/-2.496 $\chi^2$/NDF:3.3/6

Right Out: -5.176+/-2.508 $\chi^2$/NDF: 18.2/18

Left In: -3.395+/-2.587 $\chi^2$/NDF:10.6/5

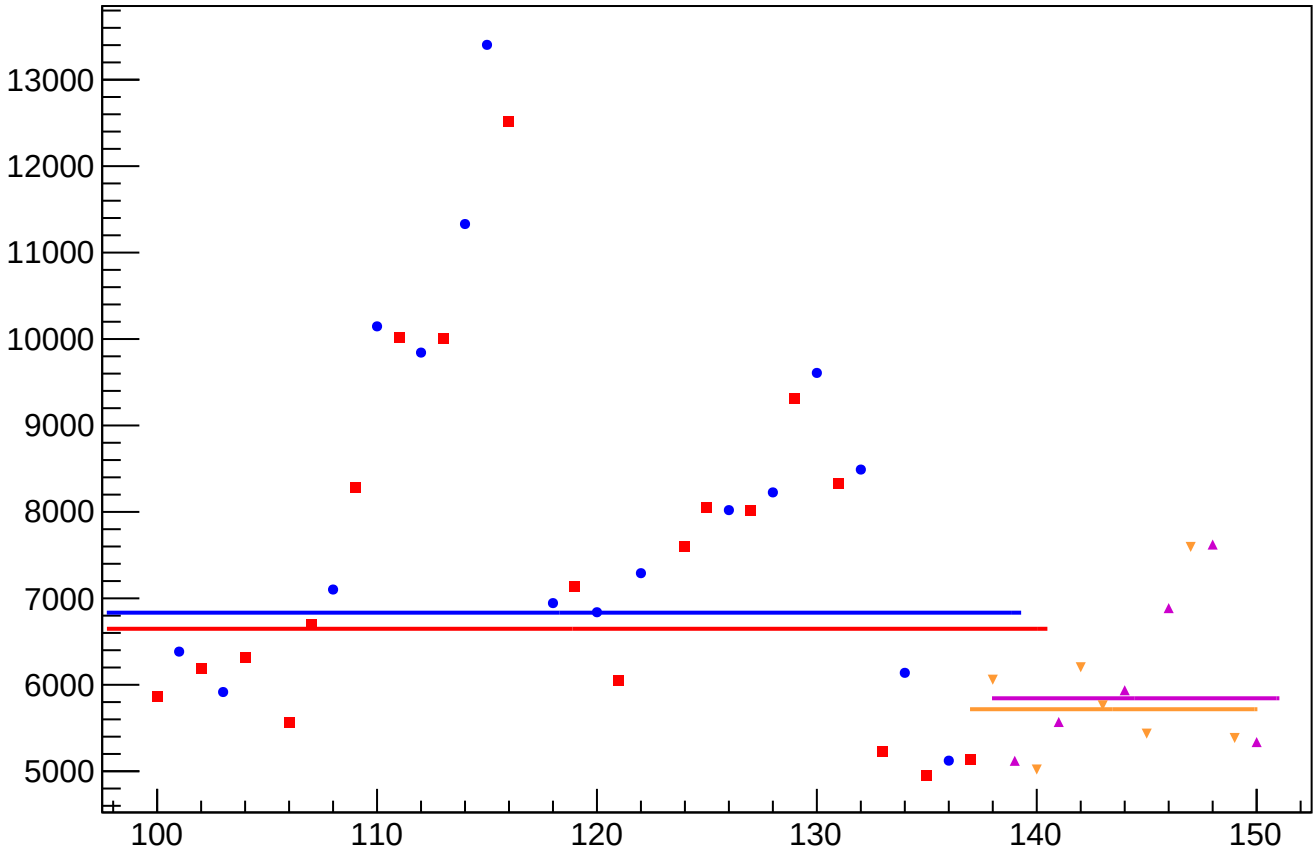
Left: 0.095+/-1.796 $\chi^2$/NDF: 17.5/12

Right: -4.384+/-1.808 $\chi^2$/NDF: 31.0/34

In: -3.461+/-1.837 $\chi^2$/NDF:23.2/21

Out: -0.896+/-1.769 $\chi^2$/NDF:27.3/25

All: -2.130+/-1.274 $\chi^2$/NDF: 51.6/47




Right In: 6834.346+/-1.844 $\chi^2$/NDF: 692722.6/15

Left Out: 5717.424+/-1.765 $\chi^2$/NDF:153135.6/6

Right Out: 6647.996+/-1.773 $\chi^2$/NDF: 785102.6/18

Left In: 5844.017+/-1.829 $\chi^2$/NDF:183297.3/5

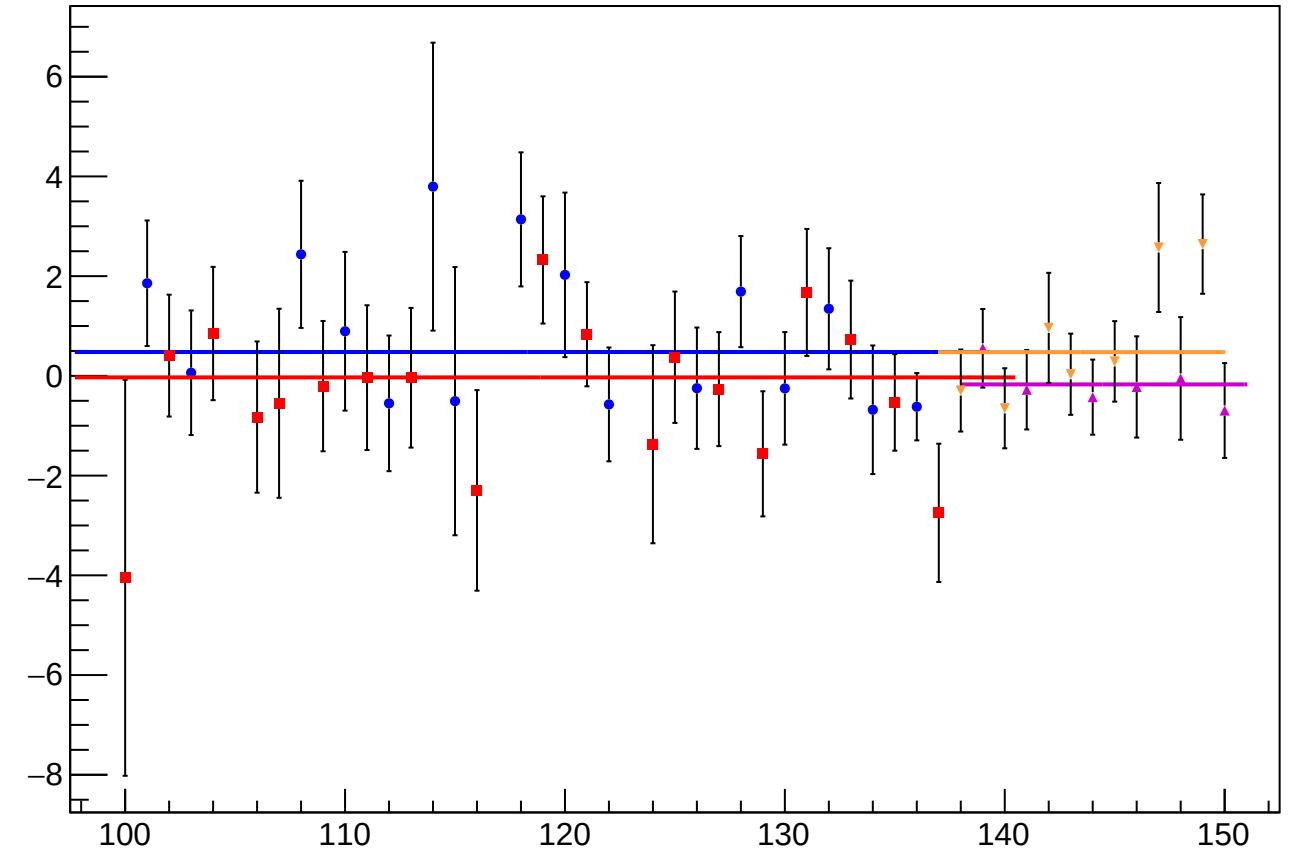
Left: 5778.446+/-1.270 $\chi^2$/NDF: 338913.6/12

Right: 6737.523+/-1.278 $\chi^2$/NDF: 1483130.1/34

In: 6335.144+/-1.299 $\chi^2$/NDF:1021371.5/21

Out: 6180.418+/-1.251 $\chi^2$/NDF:1076593.2/25

All: 6254.877+/-0.901 $\chi^2$/NDF: 2105327.6/47




Right In: 0.479+/-0.311 $\chi^2$/NDF: 16.7/15

Left Out: 0.476+/-0.343 $\chi^2$/NDF:10.7/6

Right Out: -0.030+/-0.309 $\chi^2$/NDF: 15.7/18

Left In: -0.171+/-0.361 $\chi^2$/NDF:1.3/5

Left: 0.169+/-0.249 $\chi^2$/NDF: 13.7/12

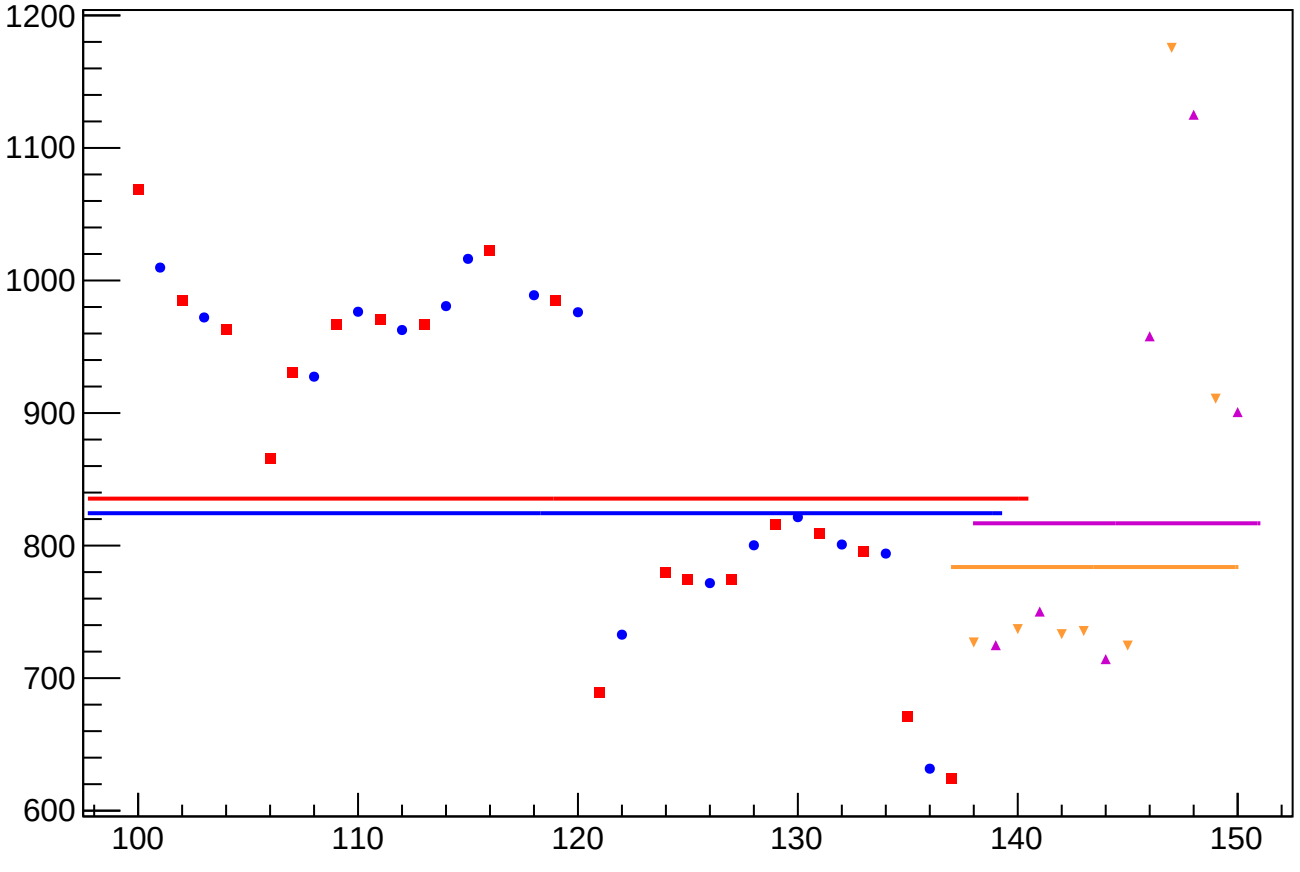
Right: 0.222+/-0.219 $\chi^2$/NDF: 33.8/34

In: 0.202+/-0.235 $\chi^2$/NDF:19.9/21

Out: 0.196+/-0.229 $\chi^2$/NDF:27.7/25

All: 0.199+/-0.164 $\chi^2$/NDF: 47.5/47

# diff_bpm_4eY_4ecY_dd_rms vs Slug, Sign Corrected




Right In: 824.431+/-0.220 $\chi^2$/NDF: 365461.7/15

Left Out: 783.820+/-0.243 $\chi^2$/NDF:254443.2/6

Right Out: 835.437+/-0.218 $\chi^2$/NDF: 319302.1/18

Left In: 816.819+/-0.255 $\chi^2$/NDF:258106.2/5

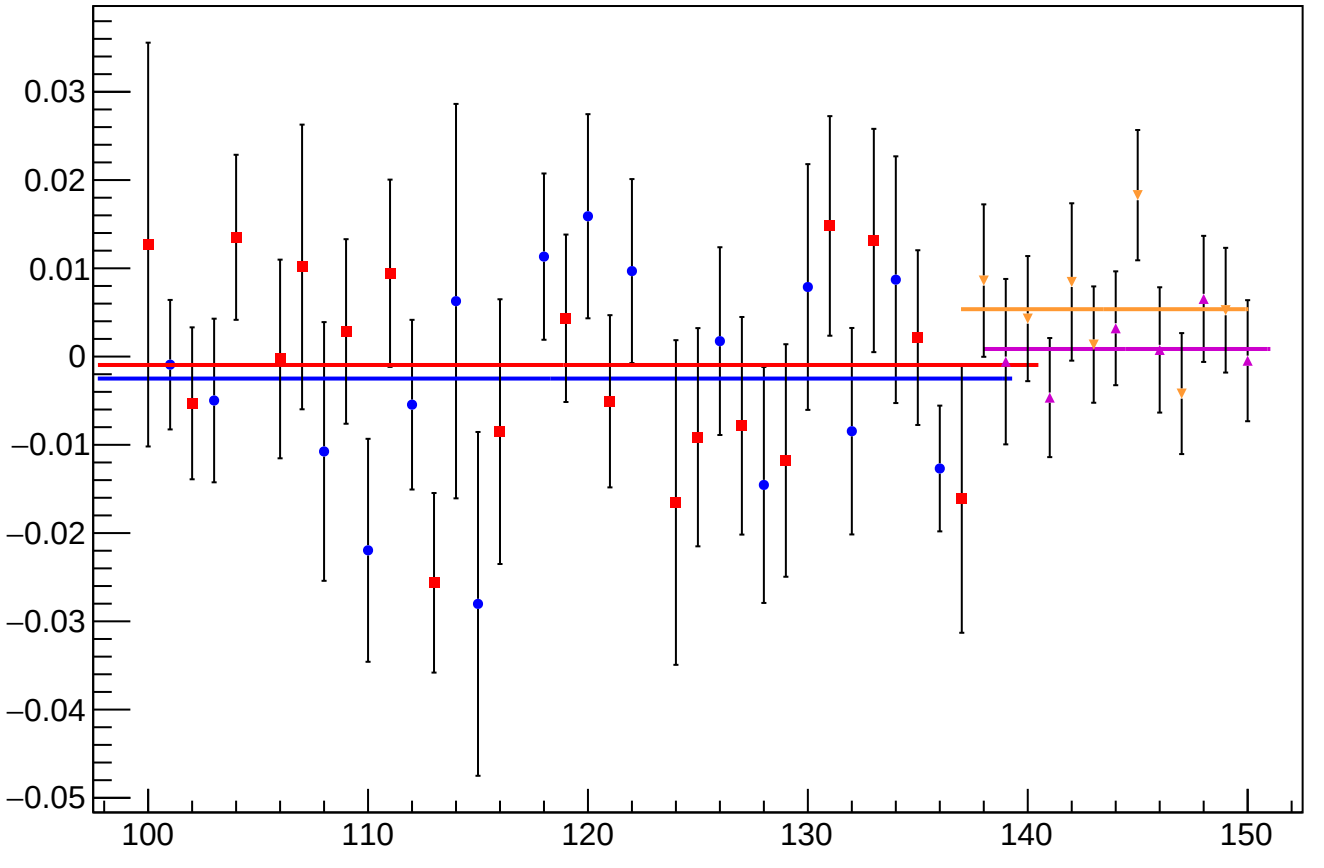
Left: 799.491+/-0.176 $\chi^2$/NDF: 521339.0/12

Right: 829.974+/-0.155 $\chi^2$/NDF: 686027.0/34

In: 821.188+/-0.166 $\chi^2$/NDF:624079.0/21

Out: 812.353+/-0.162 $\chi^2$/NDF:598777.8/25

All: 816.655+/-0.116 $\chi^2$/NDF: 1224301.6/47




Right In: -0.002+/-0.003 $\chi^2$/NDF: 15.3/15

Left Out: 0.005+/-0.003 $\chi^2$/NDF:5.7/6

Right Out: -0.001+/-0.003 $\chi^2$/NDF: 17.3/18

Left In: 0.001+/-0.003 $\chi^2$/NDF:1.5/5

Left: 0.003+/-0.002 $\chi^2$/NDF: 8.4/12

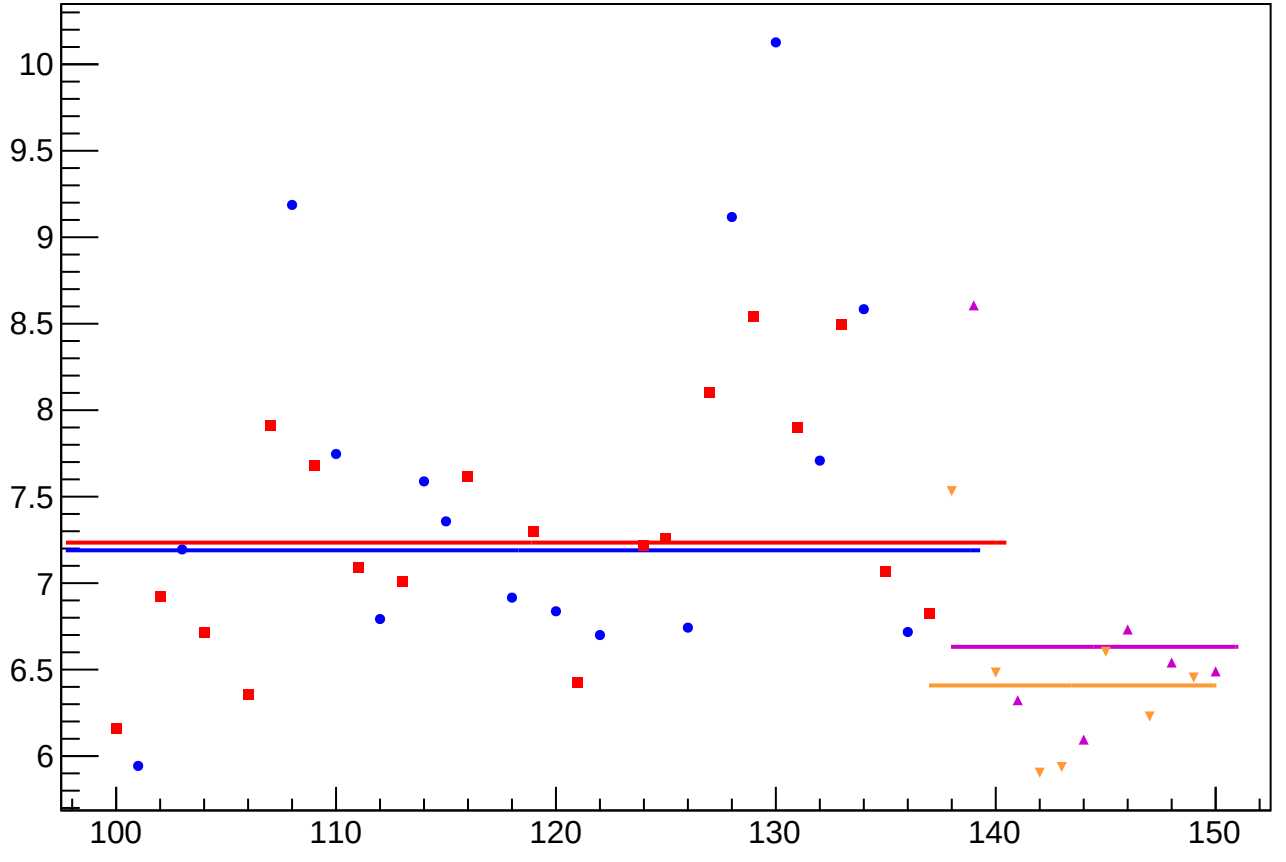
Right: -0.002+/-0.002 $\chi^2$/NDF: 32.8/34

In: -0.001+/-0.002 $\chi^2$/NDF:17.5/21

Out: 0.002+/-0.002 $\chi^2$/NDF:25.6/25

All: 0.001+/-0.001 $\chi^2$/NDF: 44.3/47

# diff_dispE_bpm12X_rms vs Slug, Sign Corrected




Right In: 7.190+/-0.002 $\chi^2$/NDF: 277639.9/15

Left Out: 6.408+/-0.002 $\chi^2$/NDF:53566.3/6

Right Out: 7.234+/-0.002 $\chi^2$/NDF: 106266.0/18

Left In: 6.632+/-0.002 $\chi^2$/NDF:108352.4/5

Left: 6.515+/-0.001 $\chi^2$/NDF: 168062.8/12

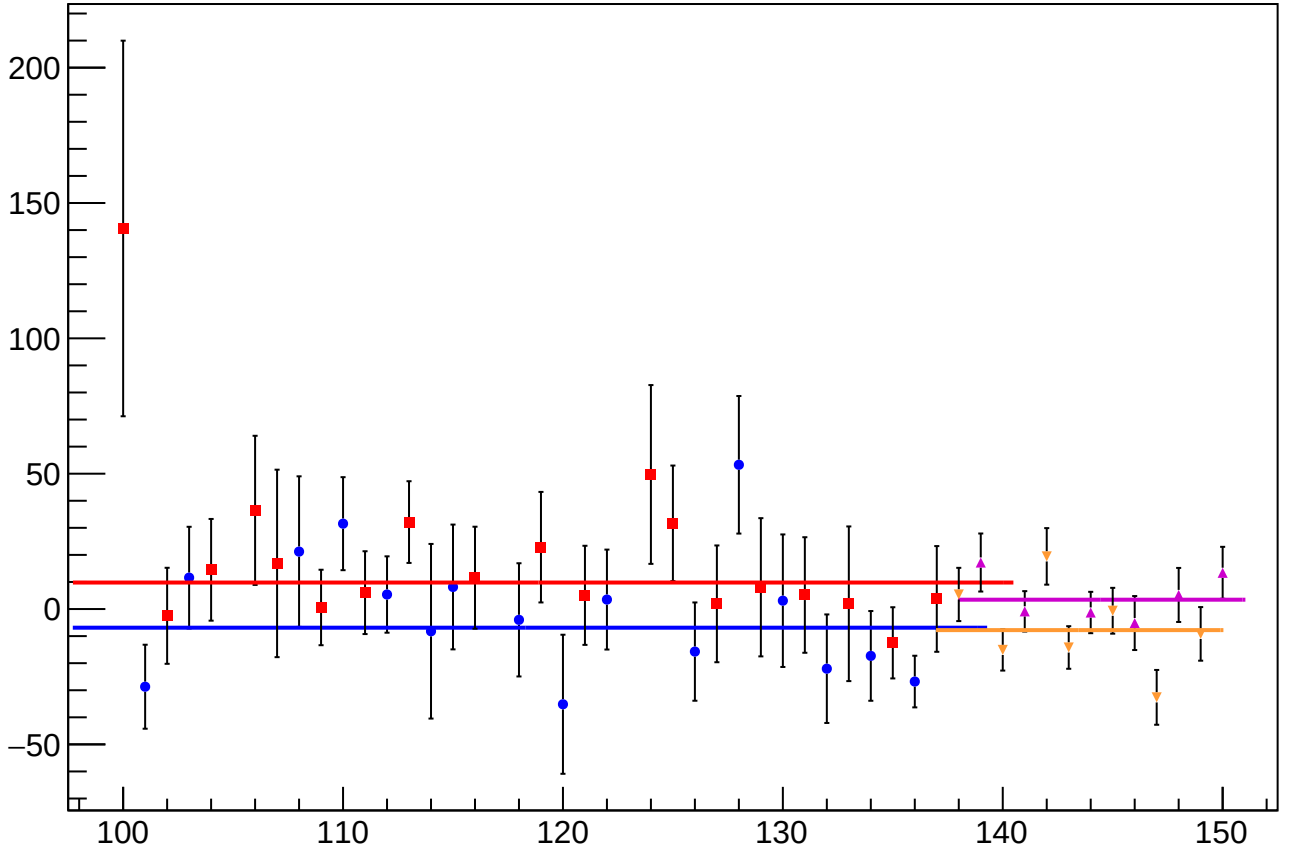
Right: 7.213+/-0.001 $\chi^2$/NDF: 384182.4/34

In: 6.931+/-0.001 $\chi^2$/NDF:425380.9/21

Out: 6.841+/-0.001 $\chi^2$/NDF:251738.5/25

All: 6.885+/-0.001 $\chi^2$/NDF: 679225.6/47

# diff_targ_positionX_mean vs Slug, Sign Corrected




Right In: -6.891+/-4.488 $\chi^2$/NDF: 23.0/15

Left Out: -7.787+/-3.396 $\chi^2$/NDF:16.9/6

Right Out: 9.790+/-4.517 $\chi^2$/NDF: 14.0/18

Left In: 3.450+/-3.657 $\chi^2$/NDF:4.2/5

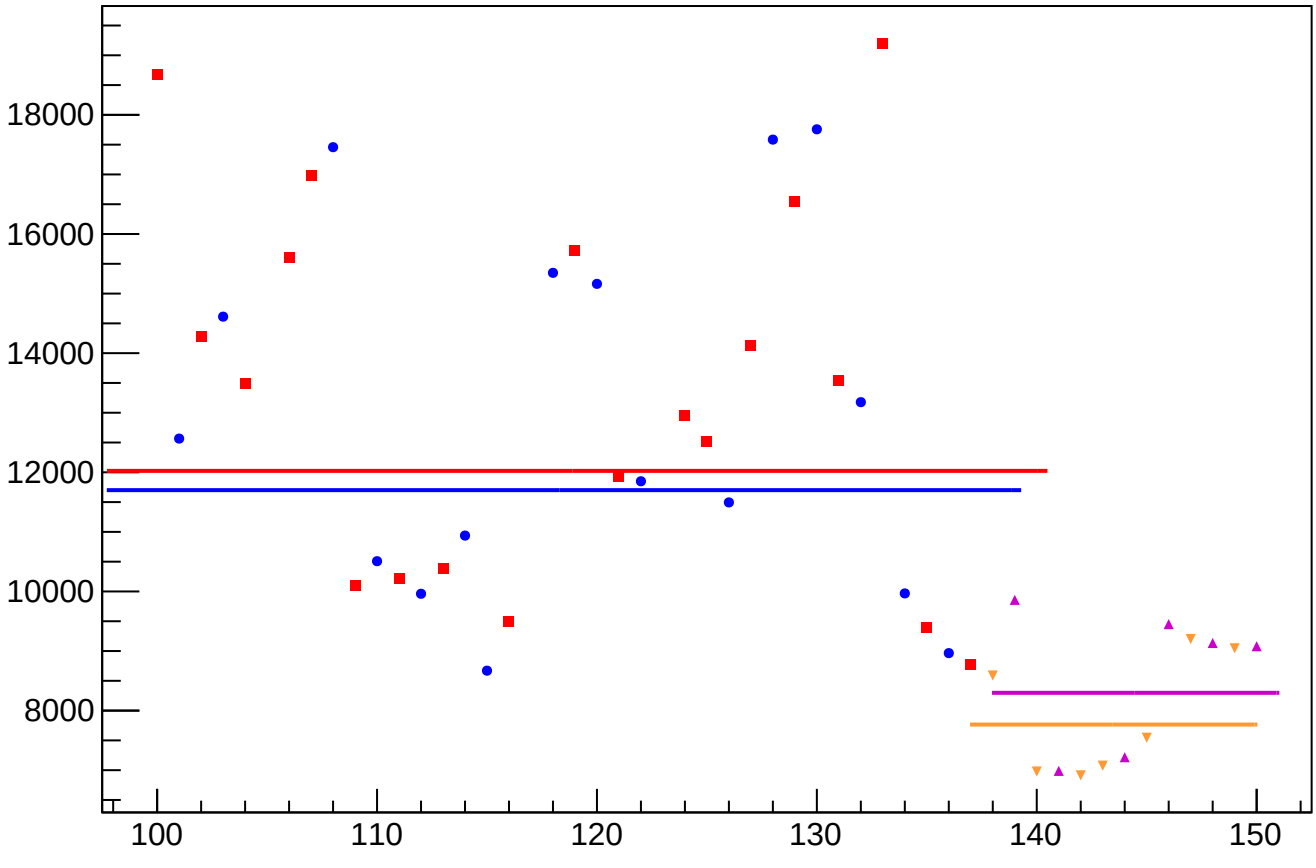
Left: -2.585+/-2.488 $\chi^2$/NDF: 26.2/12

Right: 1.396+/-3.184 $\chi^2$/NDF: 43.9/34

In: -0.676+/-2.835 $\chi^2$/NDF:30.4/21

Out: -1.441+/-2.714 $\chi^2$/NDF:40.6/25

All: -1.076+/-1.961 $\chi^2$/NDF: 71.1/47




Right In: 11700.622+/-3.174 $\chi^2$/NDF: 740185.3/15

Left Out: 7765.686+/-2.401 $\chi^2$/NDF:139057.5/6

Right Out: 12024.262+/-3.194 $\chi^2$/NDF: 684788.9/18

Left In: 8298.771+/-2.586 $\chi^2$/NDF:198185.9/5

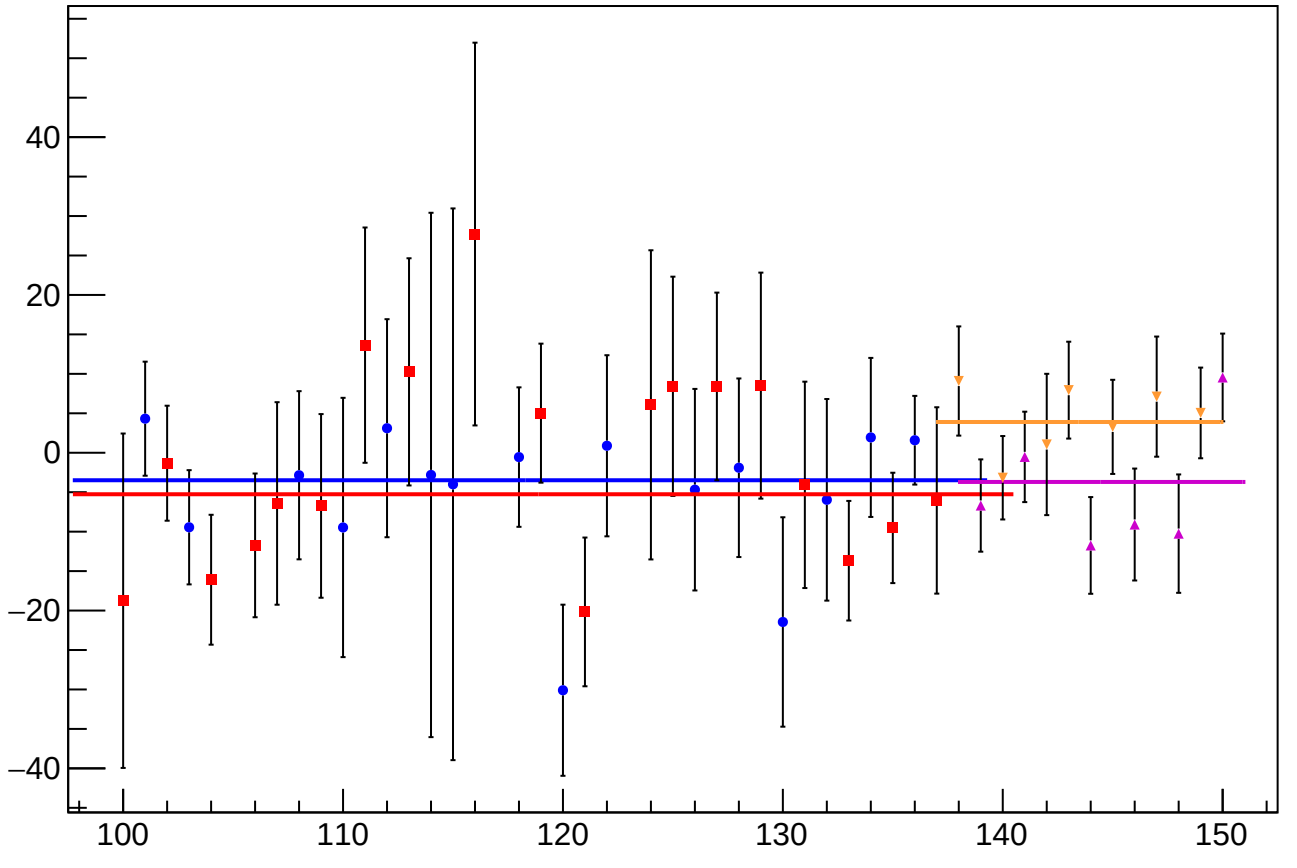
Left: 8012.464+/-1.760 $\chi^2$/NDF: 360062.9/12

Right: 11861.399+/-2.251 $\chi^2$/NDF: 1430140.0/34

In: 9656.260+/-2.005 $\chi^2$/NDF:1628819.4/21

Out: 9303.144+/-1.919 $\chi^2$/NDF:1959568.0/25

All: 9472.006+/-1.386 $\chi^2$/NDF: 3604574.6/47




Right In: -3.485+/-2.550 $\chi^2$/NDF: 11.5/15

Left Out: 3.898+/-2.416 $\chi^2$/NDF:3.1/6

Right Out: -5.259+/-2.446 $\chi^2$/NDF: 16.6/18

Left In: -3.701+/-2.529 $\chi^2$/NDF:9.3/5

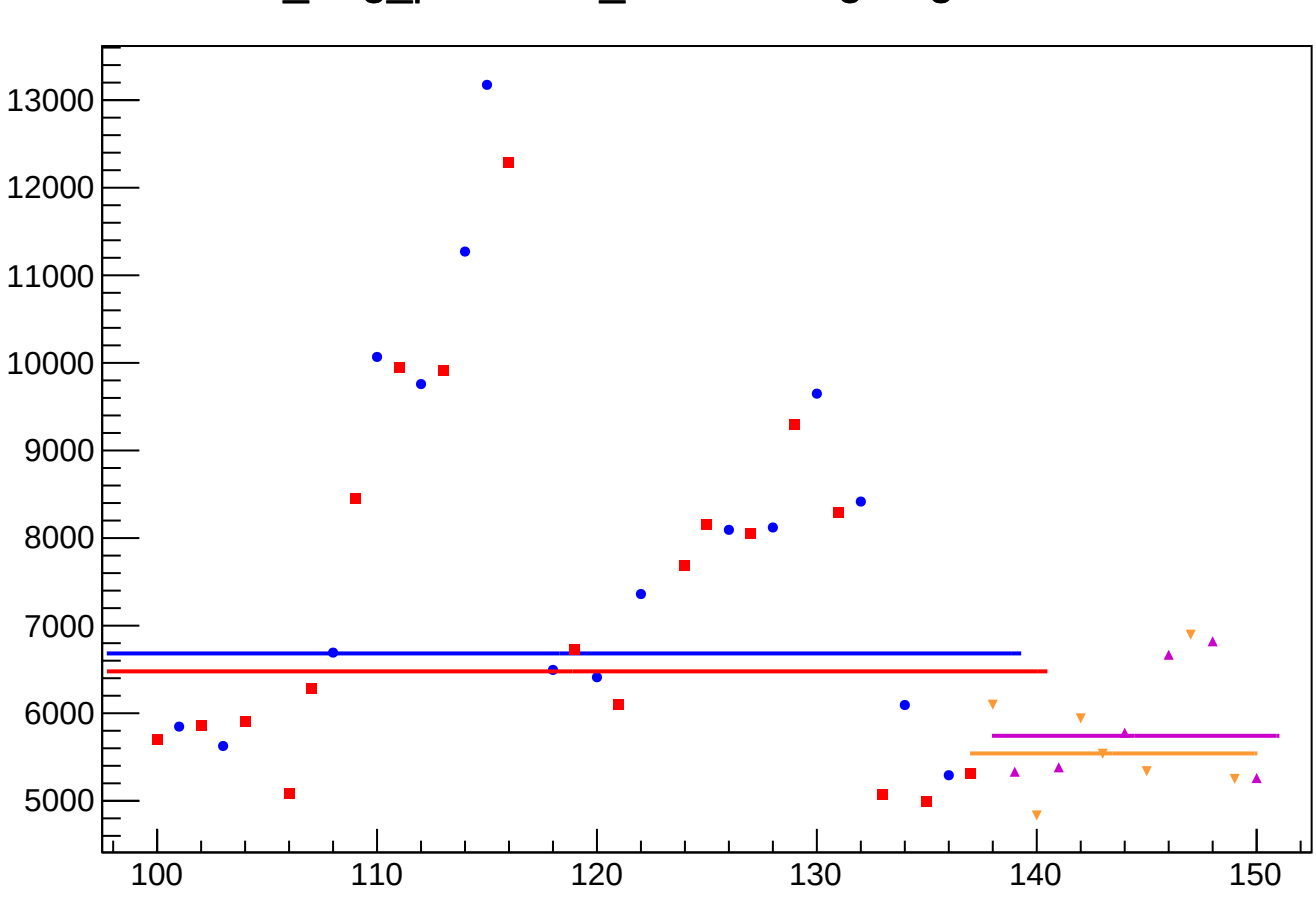
Left: 0.272+/-1.747 $\chi^2$/NDF: 17.1/12

Right: -4.409+/-1.765 $\chi^2$/NDF: 28.3/34

In: -3.594+/-1.796 $\chi^2$/NDF:20.8/21

Out: -0.624+/-1.719 $\chi^2$/NDF:26.8/25

All: -2.044+/-1.242 $\chi^2$/NDF: 49.0/47




Right In: 6682.988+/-1.803 $\chi^2$/NDF: 692200.2/15

Left Out: 5541.323+/-1.708 $\chi^2$/NDF:123653.2/6

Right Out: 6478.126+/-1.730 $\chi^2$/NDF: 839226.8/18

Left In: 5742.548+/-1.788 $\chi^2$/NDF:108268.9/5

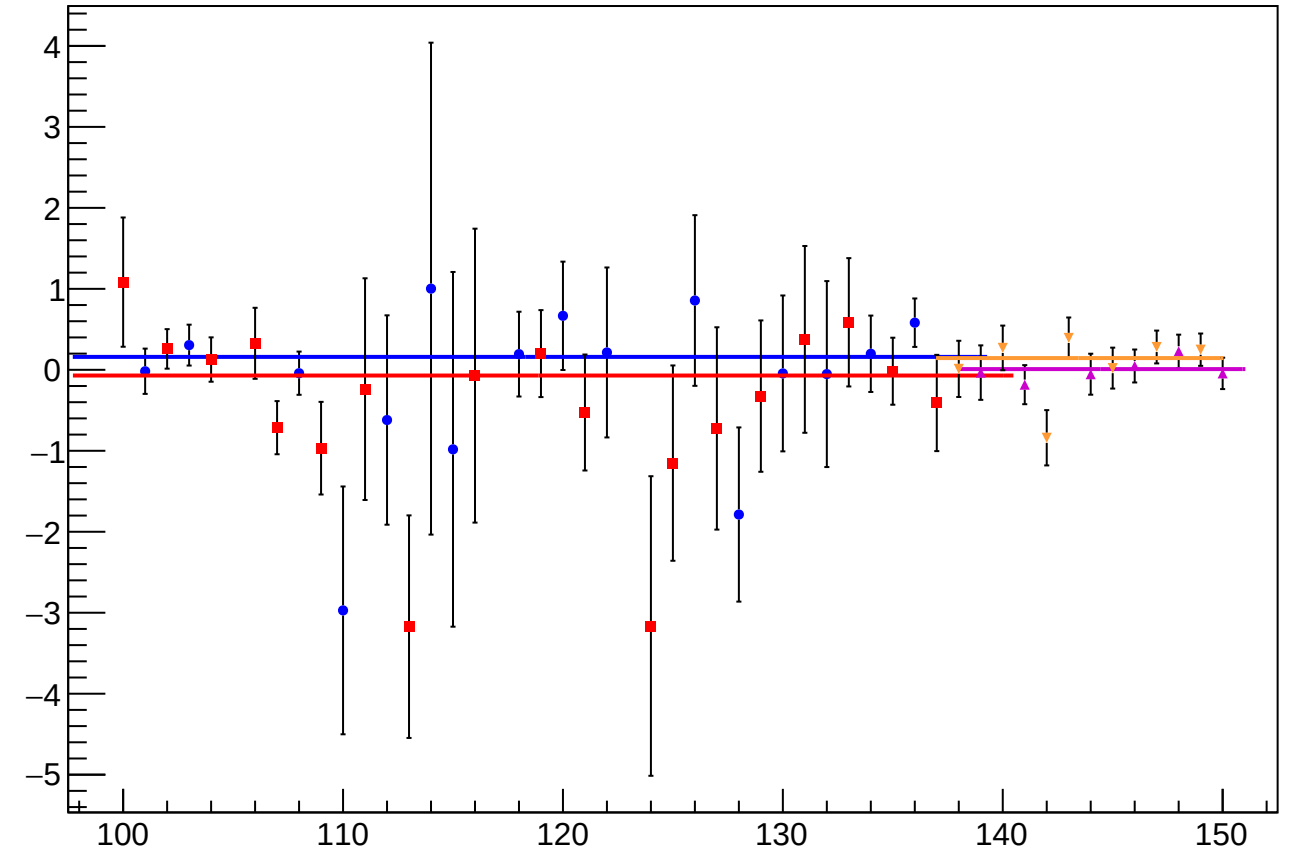
Left: 5637.338+/-1.235 $\chi^2$/NDF: 238541.5/12

Right: 6576.323+/-1.248 $\chi^2$/NDF: 1538150.0/34

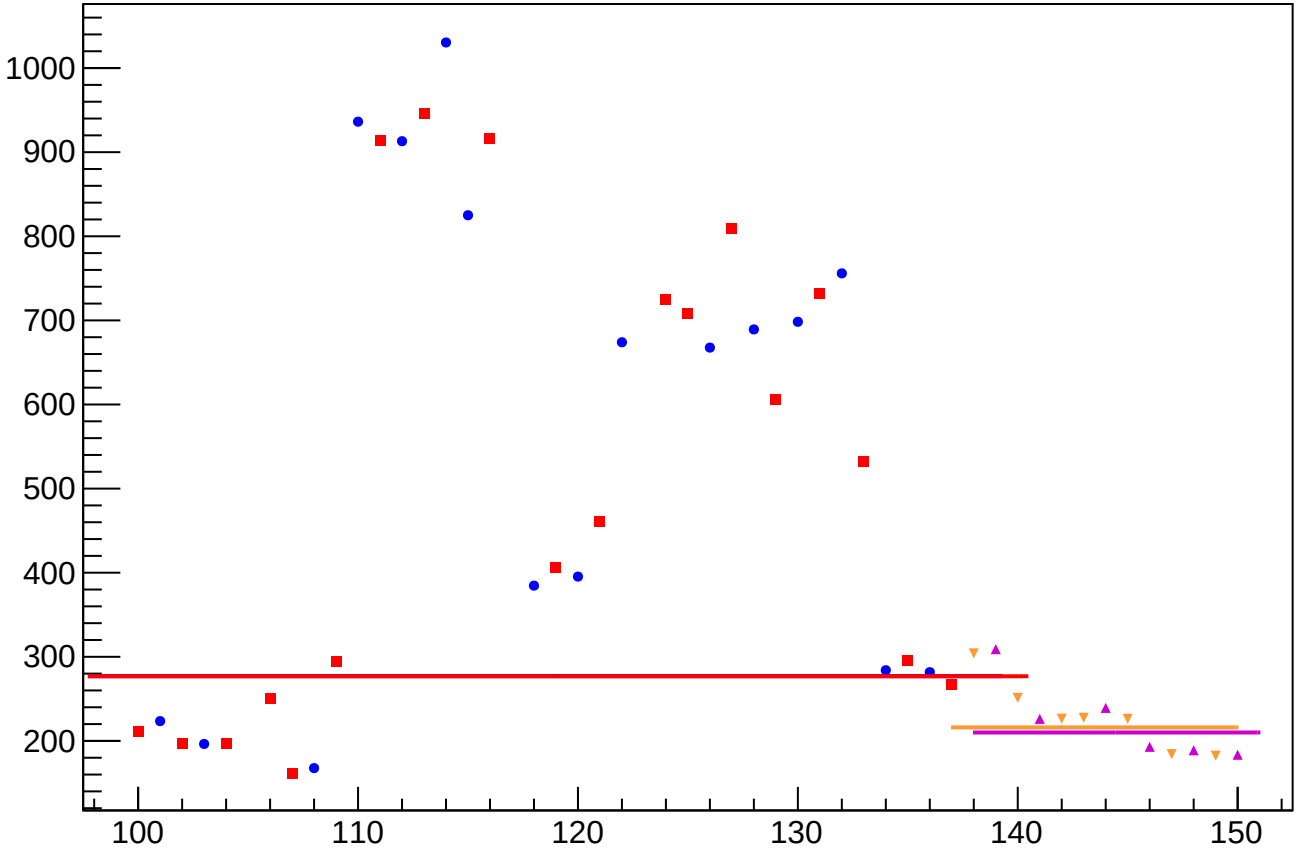
In: 6208.976+/-1.270 $\chi^2$/NDF:937618.4/21

Out: 6003.900+/-1.216 $\chi^2$/NDF:1111348.3/25

All: 6101.973+/-0.878 $\chi^2$/NDF: 2062578.9/47


diff_targ_thetaX_mean vs Slug, Sign Corrected
4
3
2
1
0
−1
−2
−3
−4
−5
100
110
120
130
140
150
Right In: 0.160+/-0.120 χ²/NDF: 12.6/15
Left Out: 0.145+/-0.095 χ²/NDF:10.6/6
Right Out: -0.070+/-0.120 χ²/NDF: 22.5/18
Left In: 0.009+/-0.093 χ²/NDF:2.0/5
Left: 0.075+/-0.066 χ²/NDF: 13.6/12
Right: 0.045+/-0.085 χ²/NDF: 36.9/34
In: 0.066+/-0.073 χ²/NDF:15.5/21
Out: 0.062+/-0.074 χ²/NDF:35.0/25
All: 0.064+/-0.052 χ²/NDF: 50.6/47

# diff_targ_thetaX_rms vs Slug, Sign Corrected




Right In: 277.017+/-0.085 $\chi^2$/NDF: 3450533.8/15

Left Out: 216.076+/-0.067 $\chi^2$/NDF:276006.5/6

Right Out: 276.866+/-0.085 $\chi^2$/NDF: 3571620.7/18

Left In: 210.010+/-0.066 $\chi^2$/NDF:281474.9/5

Left: 212.975+/-0.047 $\chi^2$/NDF: 561653.0/12

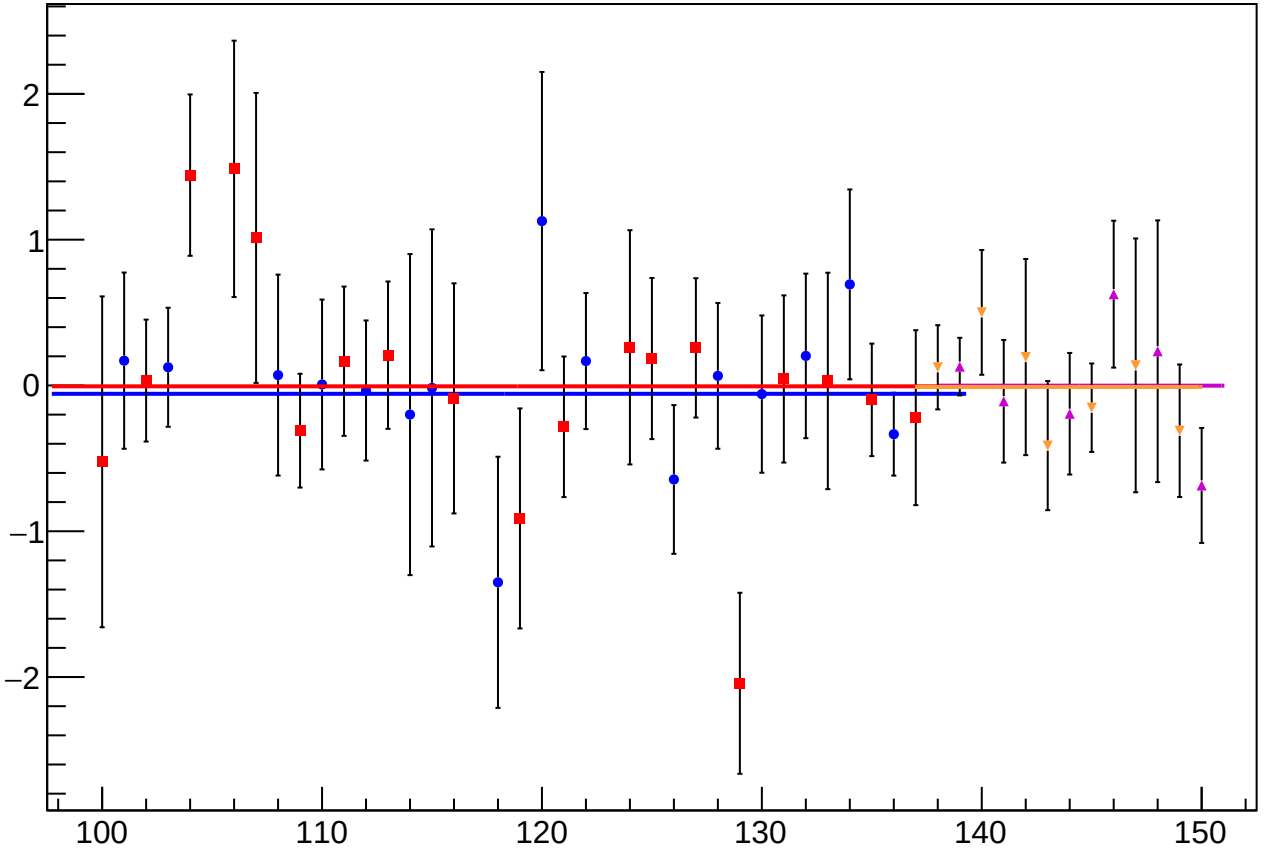
Right: 276.942+/-0.060 $\chi^2$/NDF: 7022156.1/34

In: 235.220+/-0.052 $\chi^2$/NDF:4123731.6/21

Out: 239.564+/-0.053 $\chi^2$/NDF:4164157.9/25

All: 237.361+/-0.037 $\chi^2$/NDF: 8291346.9/47

# diff_targ_thetaY_mean vs Slug, Sign Corrected




Right In: -0.057+/-0.134 $\chi^2$/NDF: 8.1/15

Left Out: -0.010+/-0.155 $\chi^2$/NDF:3.3/6

Right Out: -0.006+/-0.129 $\chi^2$/NDF: 25.2/18

Left In: -0.001+/-0.143 $\chi^2$/NDF:5.3/5

Left: -0.005+/-0.105 $\chi^2$/NDF: 8.6/12

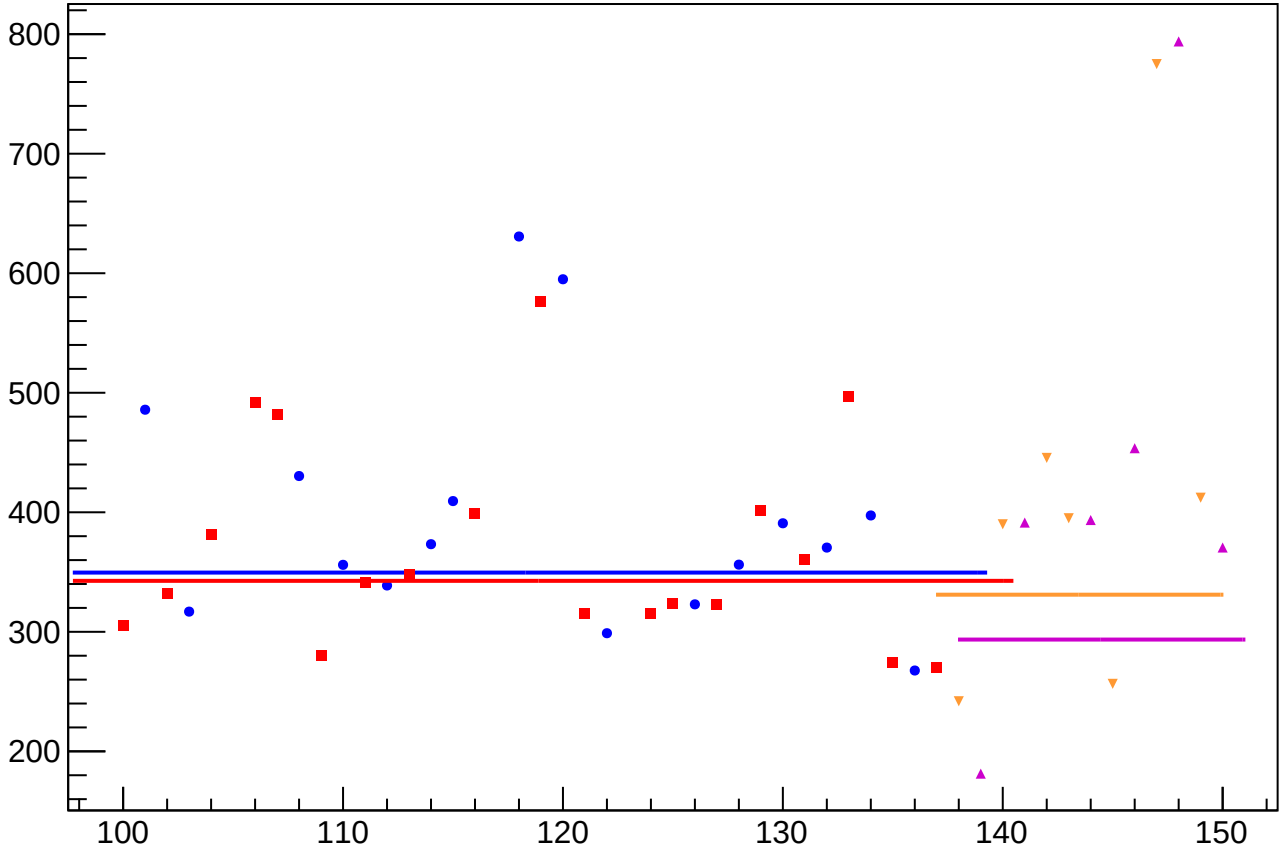
Right: -0.031+/-0.093 $\chi^2$/NDF: 33.4/34

In: -0.031+/-0.098 $\chi^2$/NDF:13.5/21

Out: -0.008+/-0.099 $\chi^2$/NDF:28.4/25

All: -0.020+/-0.070 $\chi^2$/NDF: 42.0/47

# diff_targ_thetaY_rms vs Slug, Sign Corrected




Right In: 349.560+/-0.095 $\chi^2$/NDF: 699303.9/15

Left Out: 331.057+/-0.109 $\chi^2$/NDF:1032874.4/6

Right Out: 342.641+/-0.091 $\chi^2$/NDF: 575759.9/18

Left In: 293.517+/-0.101 $\chi^2$/NDF:1767891.4/5

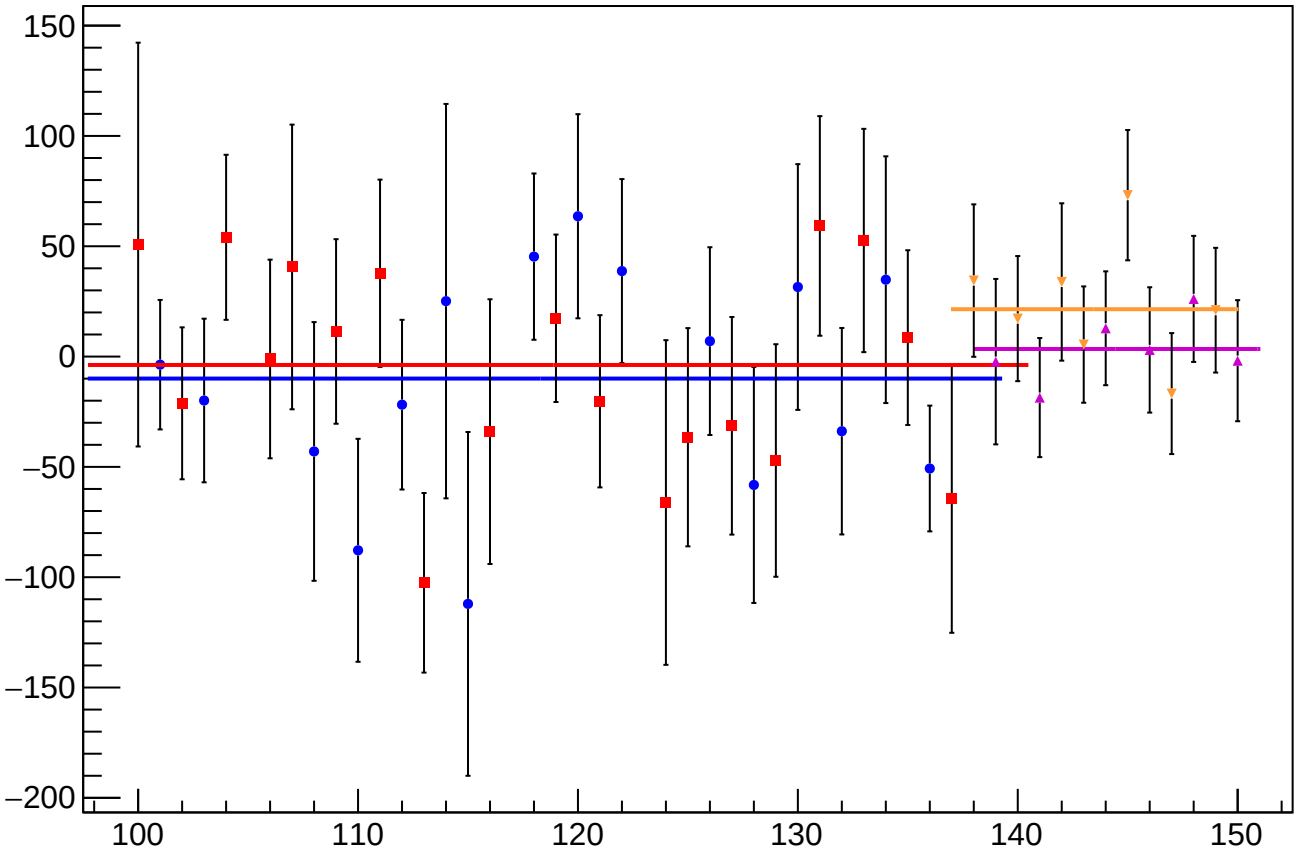
Left: 310.865+/-0.074 $\chi^2$/NDF: 2864109.2/12

Right: 345.972+/-0.066 $\chi^2$/NDF: 1277836.8/34

In: 323.475+/-0.069 $\chi^2$/NDF:2630500.9/21

Out: 337.893+/-0.070 $\chi^2$/NDF:1615252.2/25

All: 330.595+/-0.049 $\chi^2$/NDF: 4267207.0/47




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 21.473+/-11.156 $\chi^2$/NDF:5.7/6

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 3.436+/-11.641 $\chi^2$/NDF:1.5/5

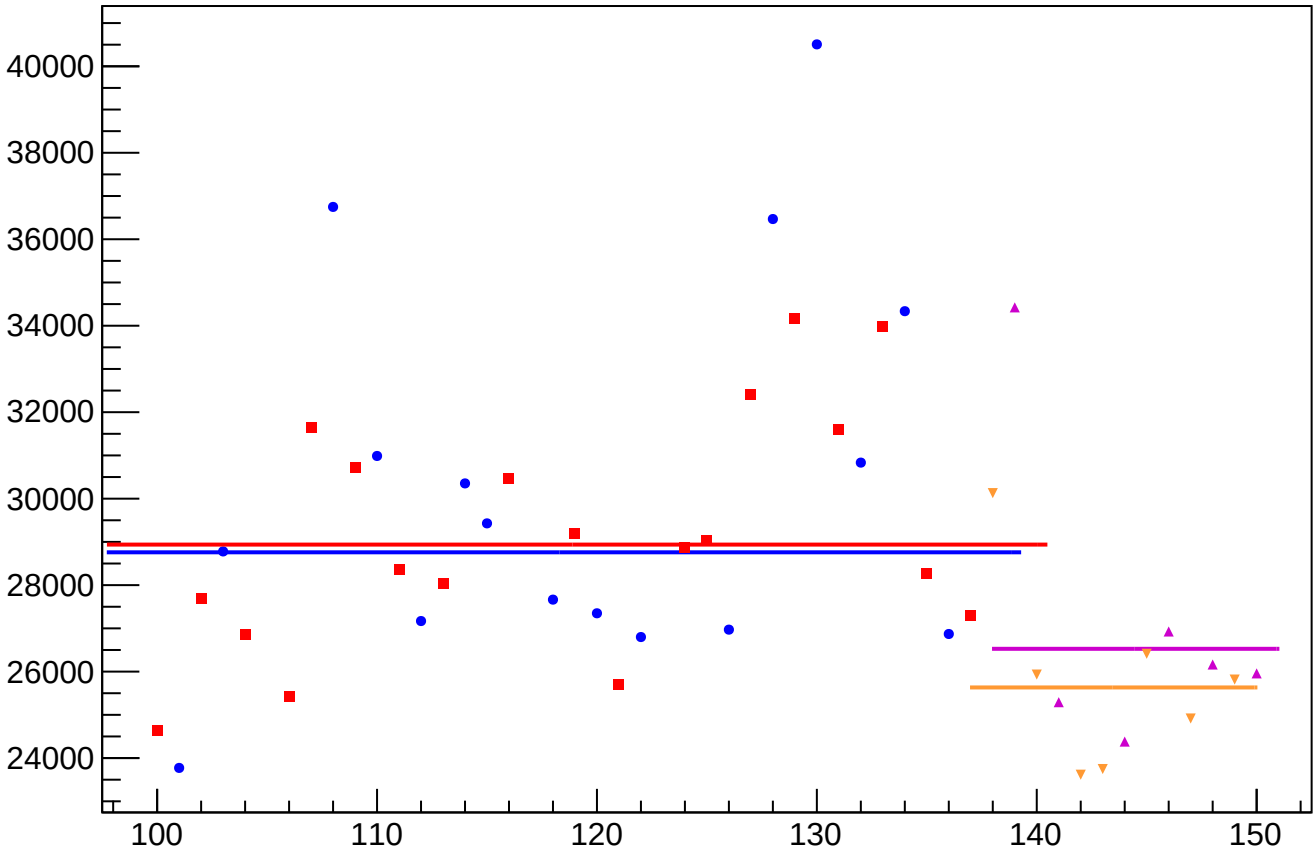
Left: 12.839+/-8.054 $\chi^2$/NDF: 8.4/12

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

In: -3.746+/-7.932 $\chi^2$/NDF:17.5/21

Out: 8.228+/-7.698 $\chi^2$/NDF:25.6/25

All: 2.420+/-5.524 $\chi^2$/NDF: 44.3/47




Right In: 28759.090+/-7.662 $\chi^2$/NDF: 277639.9/15

Left Out: 25633.497+/-7.888 $\chi^2$/NDF:53566.3/6

Right Out: 28937.633+/-7.521 $\chi^2$/NDF: 106266.0/18

Left In: 26527.155+/-8.232 $\chi^2$/NDF:108352.4/5

Left: 26061.295+/-5.695 $\chi^2$/NDF: 168062.8/12

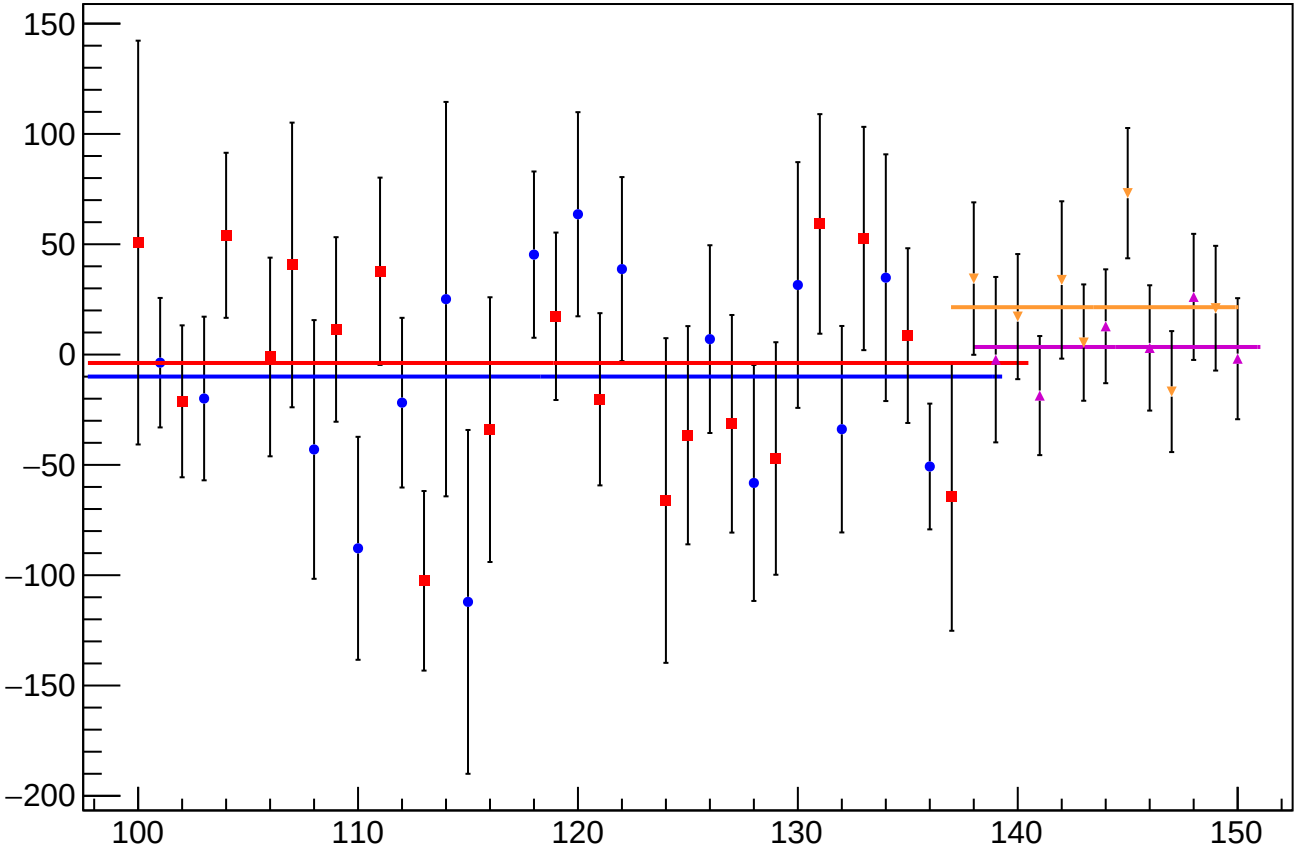
Right: 28850.024+/-5.367 $\chi^2$/NDF: 384182.4/34

In: 27722.948+/-5.609 $\chi^2$/NDF:425380.9/21

Out: 27364.259+/-5.443 $\chi^2$/NDF:251738.5/25

All: 27538.241+/-3.906 $\chi^2$/NDF: 679225.6/47

# diff_bpmEX_mean vs Slug, Sign Corrected




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 21.473+/-11.156 $\chi^2$/NDF:5.7/6

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 3.436+/-11.641 $\chi^2$/NDF:1.5/5

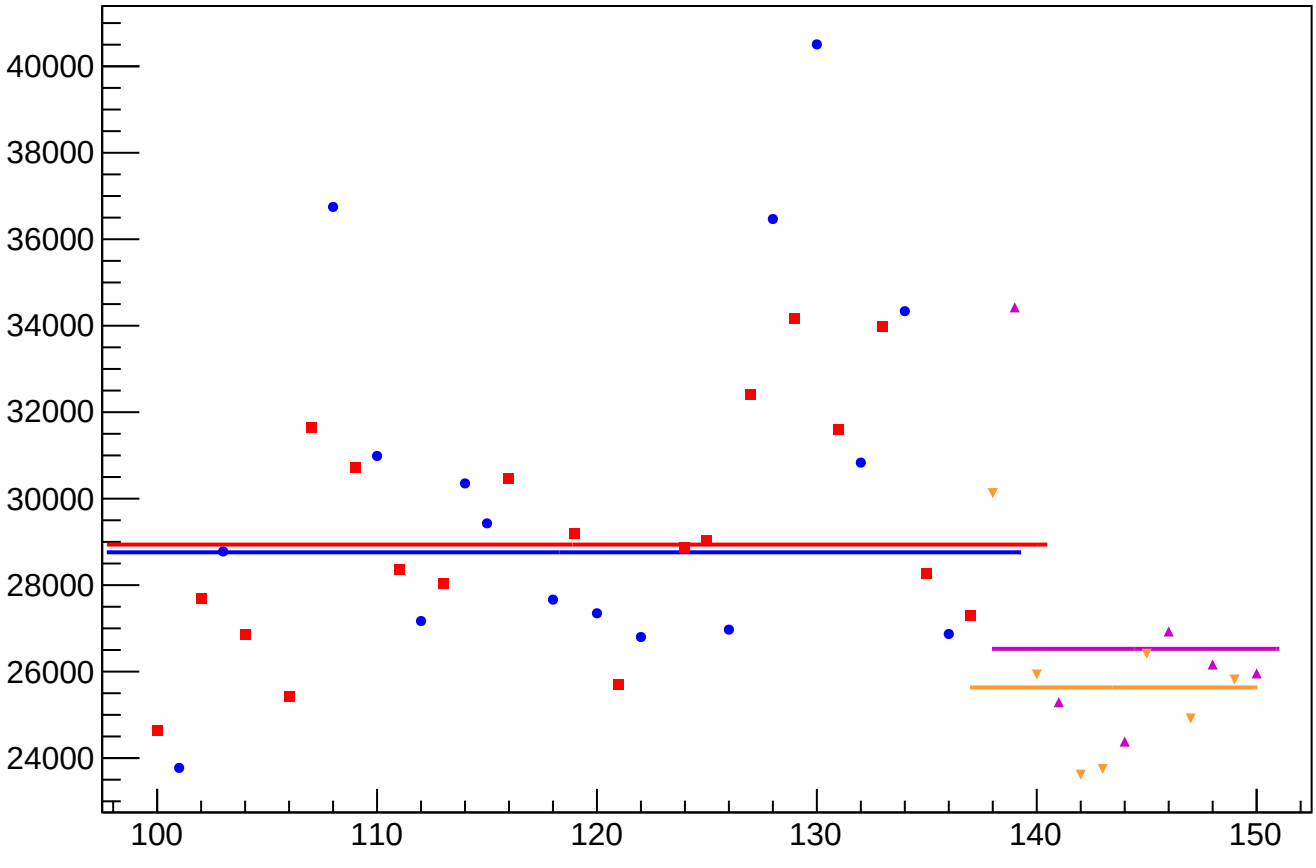
Left: 12.839+/-8.054 $\chi^2$/NDF: 8.4/12

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

In: -3.746+/-7.932 $\chi^2$/NDF:17.5/21

Out: 8.228+/-7.698 $\chi^2$/NDF:25.6/25

All: 2.420+/-5.524 $\chi^2$/NDF: 44.3/47




Right In: 28759.090+/-7.662 $\chi^2$/NDF: 277639.9/15

Left Out: 25633.497+/-7.888 $\chi^2$/NDF:53566.3/6

Right Out: 28937.633+/-7.521 $\chi^2$/NDF: 106266.0/18

Left In: 26527.155+/-8.232 $\chi^2$/NDF:108352.4/5

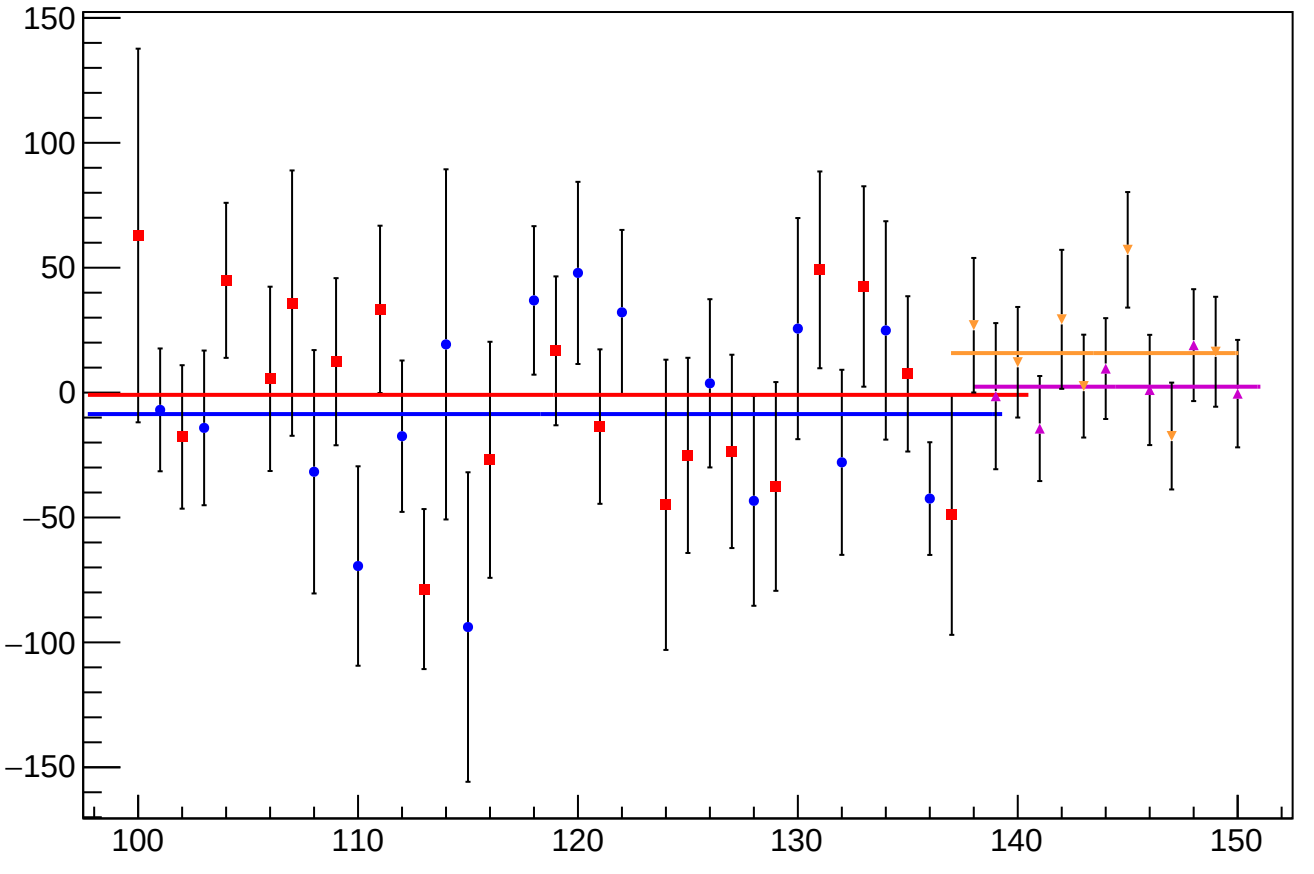
Left: 26061.295+/-5.695 $\chi^2$/NDF: 168062.8/12

Right: 28850.024+/-5.367 $\chi^2$/NDF: 384182.4/34

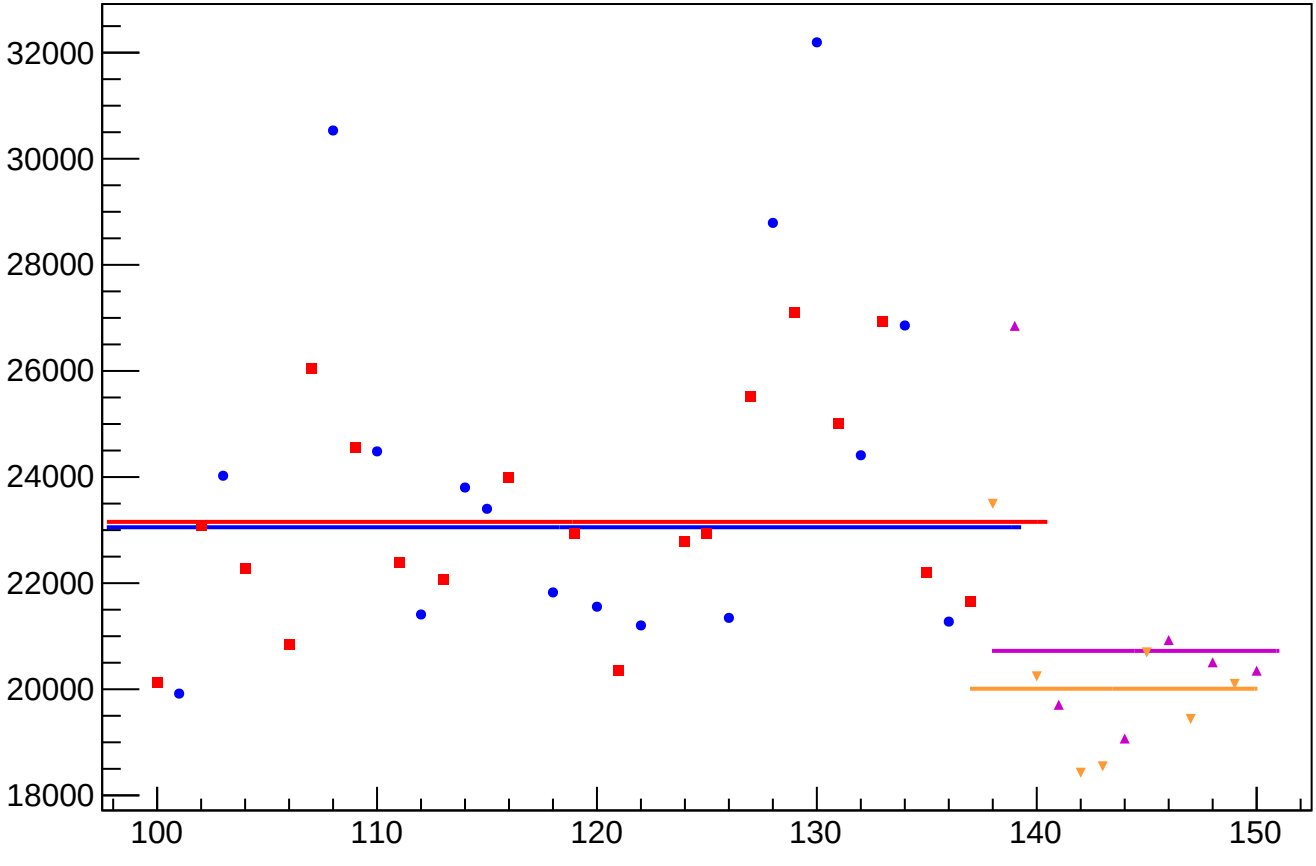
In: 27722.948+/-5.609 $\chi^2$/NDF:425380.9/21

Out: 27364.259+/-5.443 $\chi^2$/NDF:251738.5/25

All: 27538.241+/-3.906 $\chi^2$/NDF: 679225.6/47


diff_bpmE_11X12X_mean vs Slug, Sign Corrected
150
100
50
0
−50
−100
−150
100
110
120
130
140
150
Right In: -8.599+/-8.678 χ²/NDF: 15.5/15
Left Out: 15.813+/-8.707 χ²/NDF:6.5/6
Right Out: -0.904+/-8.506 χ²/NDF: 17.6/18
Left In: 2.360+/-9.094 χ²/NDF:1.4/5
Left: 9.379+/-6.289 χ²/NDF: 8.9/12
Right: -4.674+/-6.075 χ²/NDF: 33.5/34
In: -3.375+/-6.278 χ²/NDF:17.6/21
Out: 7.259+/-6.084 χ²/NDF:25.9/25
All: 2.108+/-4.369 χ²/NDF: 45.0/47

# diff_bpmE_11X12X_rms vs Slug, Sign Corrected




Right In: 23053.910+/-6.137 $\chi^2$/NDF: 261444.9/15

Left Out: 20010.334+/-6.157 $\chi^2$/NDF:53512.1/6

Right Out: 23155.251+/-6.015 $\chi^2$/NDF: 93894.1/18

Left In: 20723.213+/-6.430 $\chi^2$/NDF:106765.1/5

Left: 20351.304+/-4.447 $\chi^2$/NDF: 166689.4/12

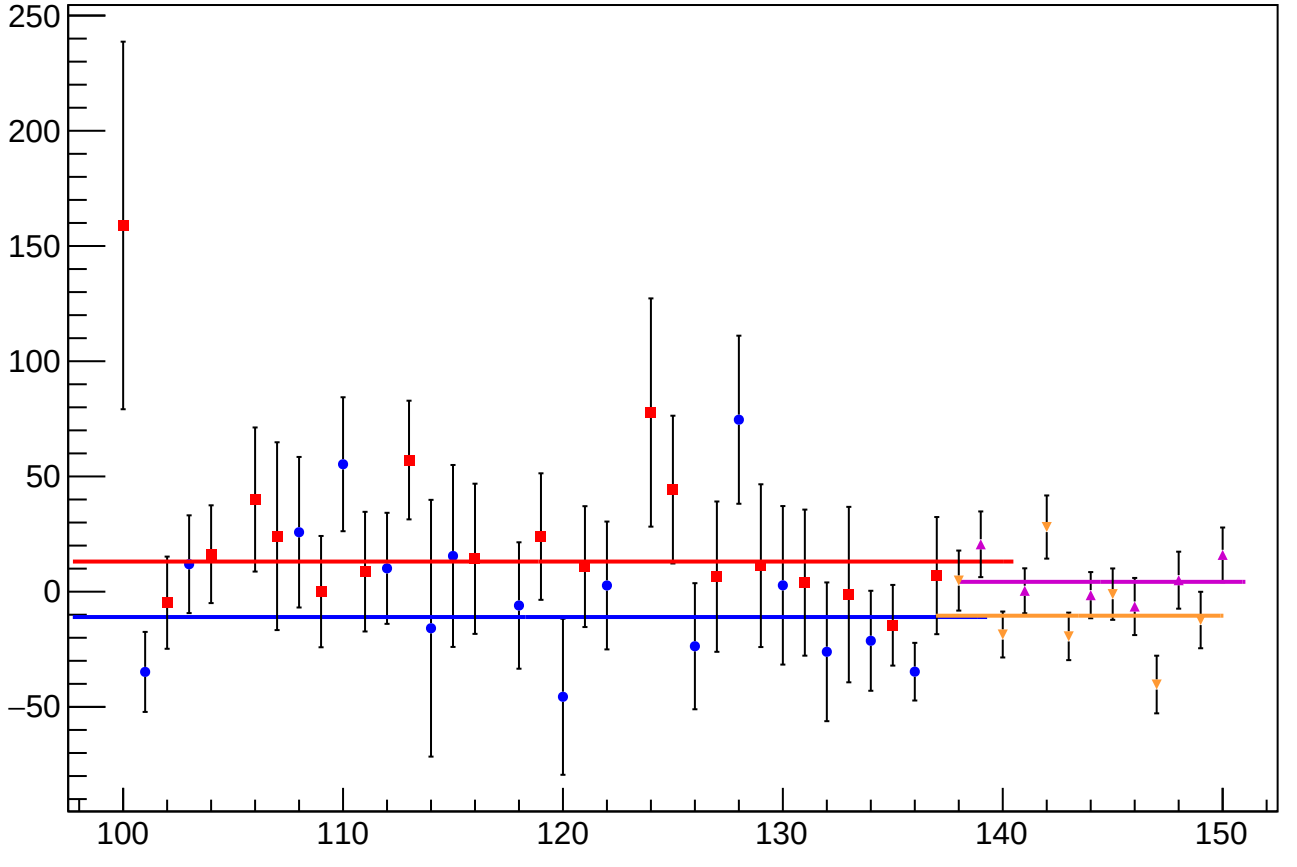
Right: 23105.598+/-4.295 $\chi^2$/NDF: 355478.0/34

In: 21942.989+/-4.439 $\chi^2$/NDF:436966.9/21

Out: 21619.577+/-4.302 $\chi^2$/NDF:280912.6/25

All: 21776.216+/-3.090 $\chi^2$/NDF: 720616.3/47

# diff_bpm4aesumX_mean vs Slug, Sign Corrected




Right In: -11.002+/-6.155 $\chi^2$/NDF: 22.0/15

Left Out: -10.426+/-4.394 $\chi^2$/NDF:17.1/6

Right Out: 13.071+/-6.382 $\chi^2$/NDF: 13.9/18

Left In: 4.267+/-4.686 $\chi^2$/NDF:3.5/5

Left: -3.552+/-3.205 $\chi^2$/NDF: 25.9/12

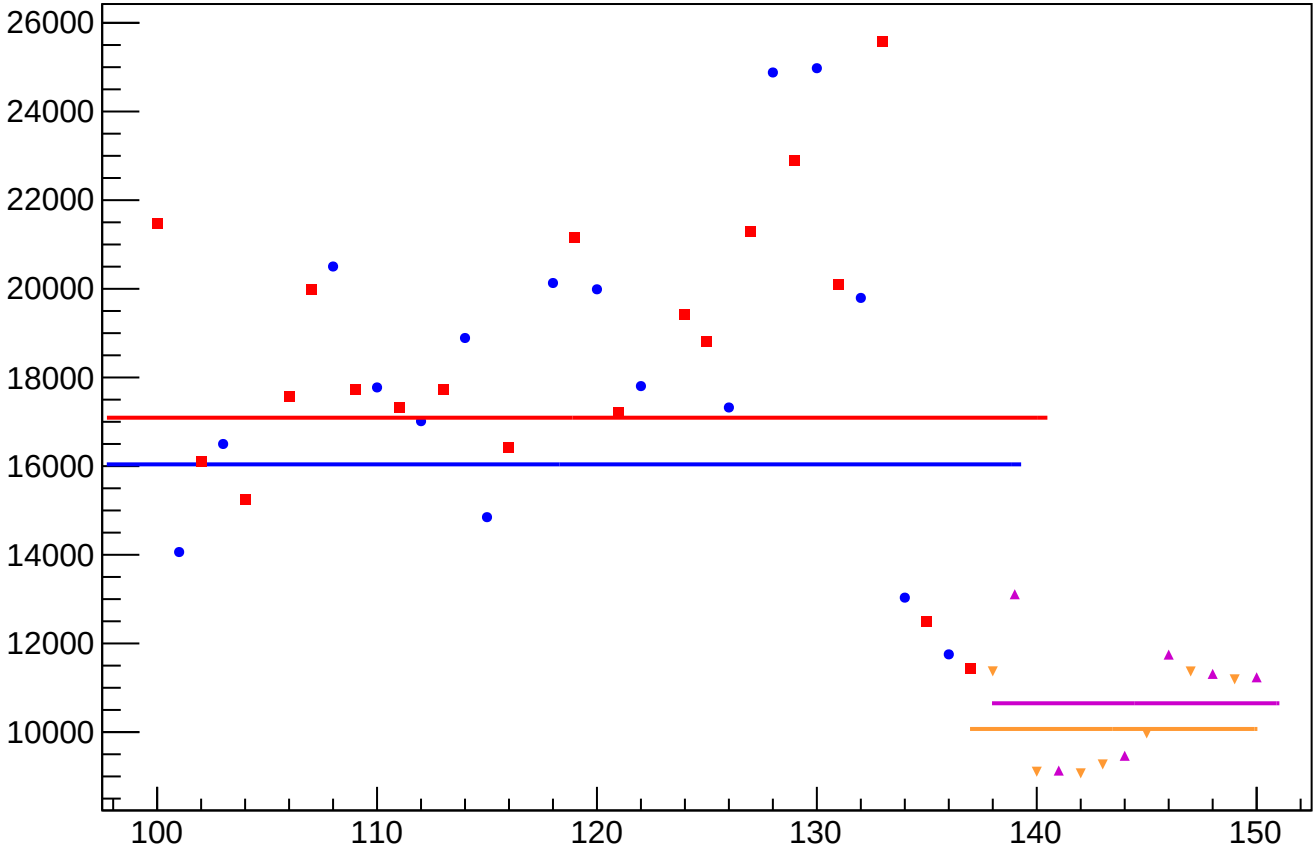
Right: 0.599+/-4.430 $\chi^2$/NDF: 43.3/34

In: -1.336+/-3.728 $\chi^2$/NDF:29.4/21

Out: -2.869+/-3.619 $\chi^2$/NDF:40.2/25

All: -2.126+/-2.597 $\chi^2$/NDF: 69.7/47

# diff_bpm4aesumX_rms vs Slug, Sign Corrected




Right In: 16040.060+/-4.352 $\chi^2$/NDF: 722678.9/15

Left Out: 10071.104+/-3.107 $\chi^2$/NDF:99717.0/6

Right Out: 17092.658+/-4.513 $\chi^2$/NDF: 535464.0/18

Left In: 10650.449+/-3.314 $\chi^2$/NDF:162256.7/5

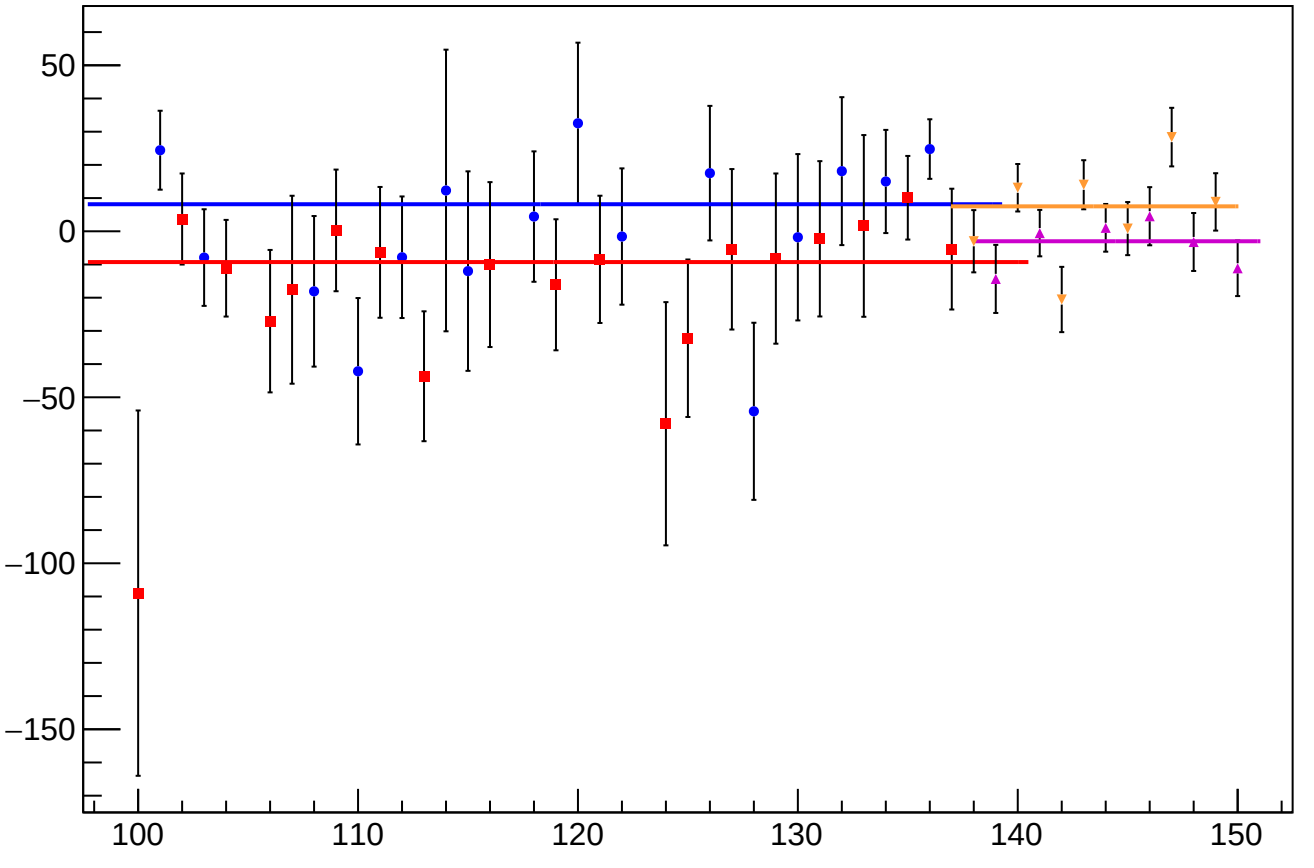
Left: 10342.155+/-2.267 $\chi^2$/NDF: 278240.5/12

Right: 16547.306+/-3.133 $\chi^2$/NDF: 1286331.2/34

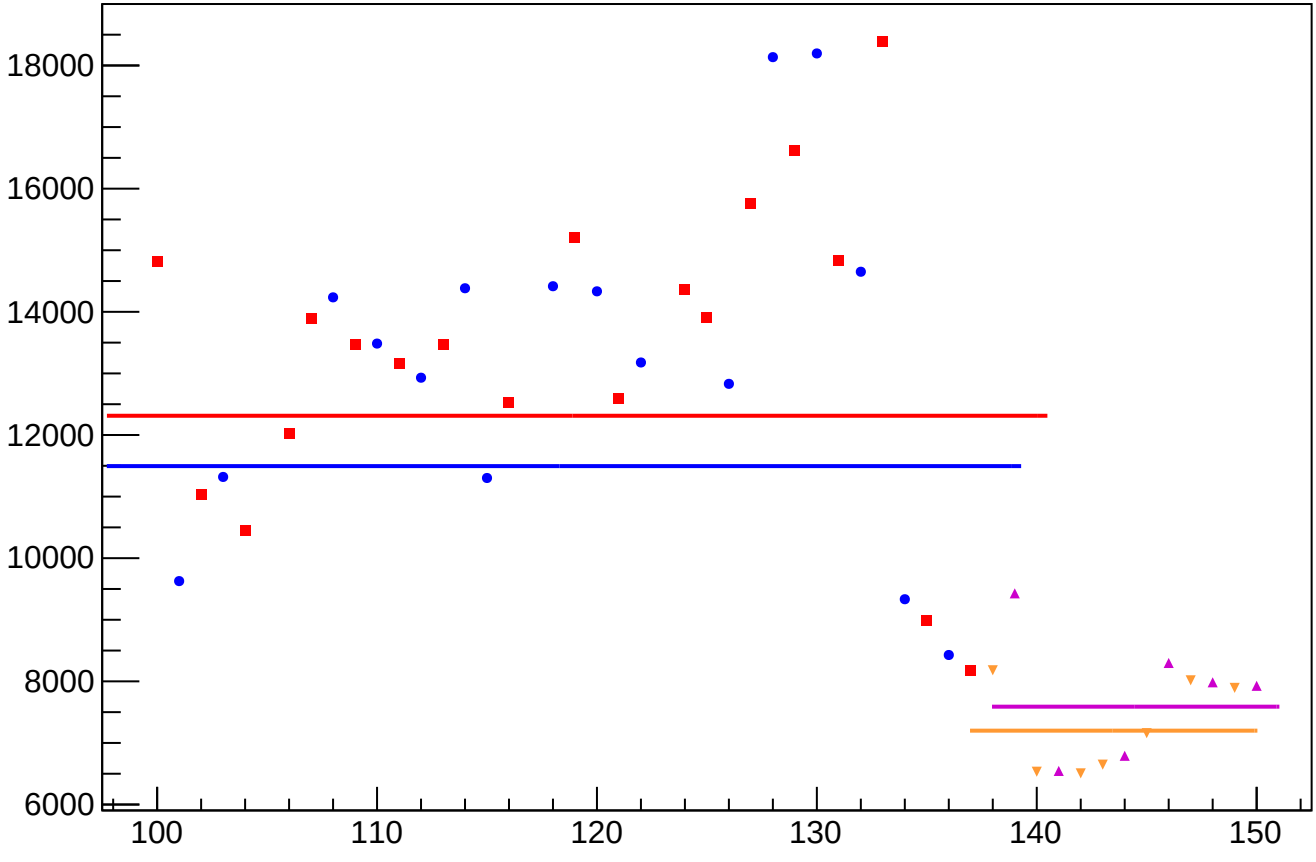
In: 12628.216+/-2.636 $\chi^2$/NDF:1855743.9/21

Out: 12329.186+/-2.559 $\chi^2$/NDF:2277609.9/25

All: 12474.252+/-1.836 $\chi^2$/NDF: 4139977.6/4


diff_bpm4aediffX_mean vs Slug, Sign Corrected
50
0
−50
−100
−150
100
110
120
130
140
150
Right In: 8.150+/-4.423 χ²/NDF: 21.8/15
Left Out: 7.513+/-3.139 χ²/NDF:17.1/6
Right Out: -9.270+/-4.607 χ²/NDF: 13.9/18
Left In: -3.001+/-3.338 χ²/NDF:3.4/5
Left: 2.577+/-2.287 χ²/NDF: 25.7/12
Right: -0.204+/-3.191 χ²/NDF: 43.1/34
In: 1.045+/-2.664 χ²/NDF:29.2/21
Out: 2.191+/-2.594 χ²/NDF:40.0/25
All: 1.633+/-1.859 χ²/NDF: 69.3/47

# diff_bpm4aediffX_rms vs Slug, Sign Corrected




Right In: 11494.969+/-3.127 $\chi^2$/NDF: 789990.1/15

Left Out: 7199.486+/-2.220 $\chi^2$/NDF:90508.9/6

Right Out: 12312.550+/-3.258 $\chi^2$/NDF: 598755.3/18

Left In: 7588.991+/-2.360 $\chi^2$/NDF:154104.3/5

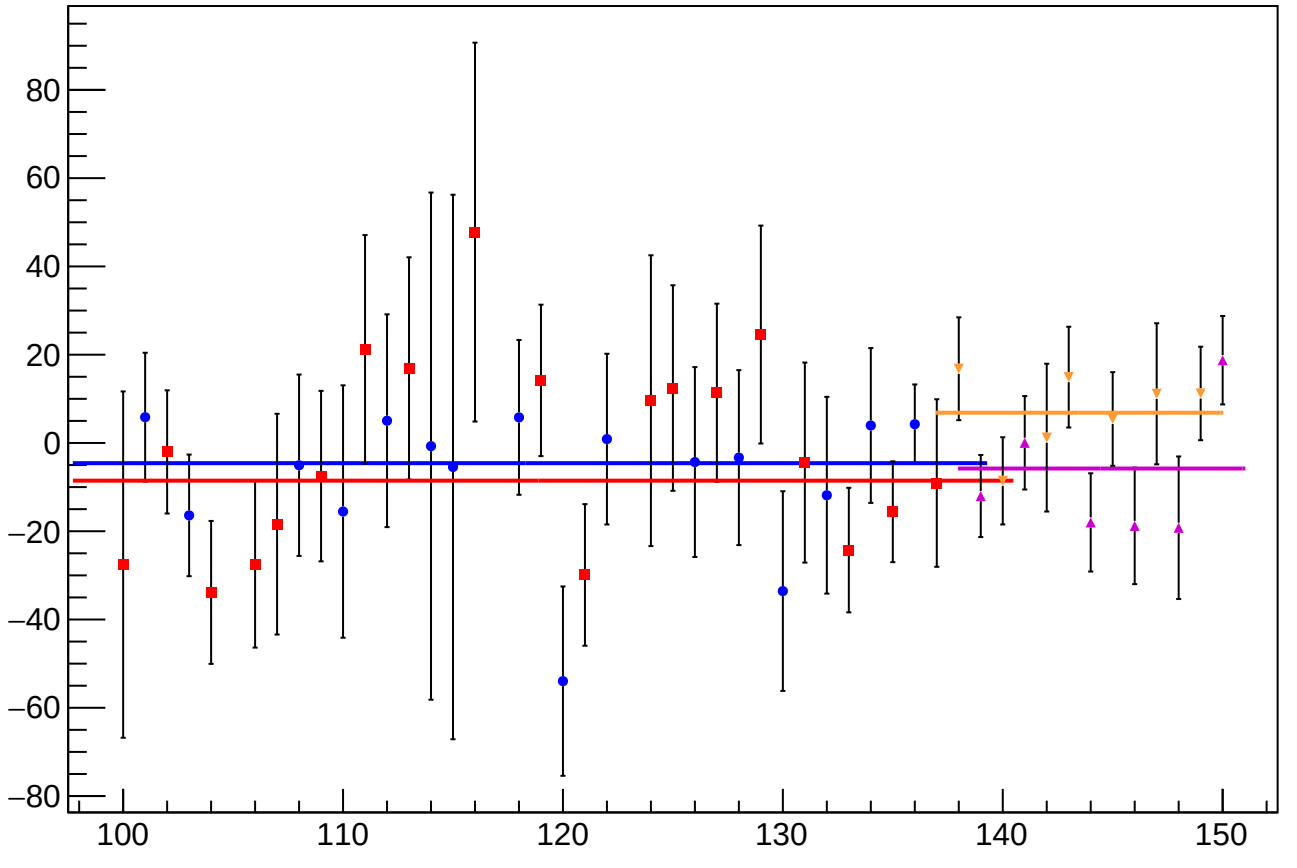
Left: 7382.316+/-1.617 $\chi^2$/NDF: 259064.2/12

Right: 11887.075+/-2.256 $\chi^2$/NDF: 1421522.1/34

In: 9006.369+/-1.884 $\chi^2$/NDF:1937930.1/21

Out: 8820.792+/-1.834 $\chi^2$/NDF:2371490.1/25

All: 8911.113+/-1.314 $\chi^2$/NDF: 4314400.9/47




Right In: -4.578+/-4.554 $\chi^2$/NDF: 10.2/15

Left Out: 6.856+/-4.447 $\chi^2$/NDF:4.0/6

Right Out: -8.537+/-4.392 $\chi^2$/NDF: 17.2/18

Left In: -5.793+/-4.559 $\chi^2$/NDF:9.6/5

Left: 0.689+/-3.183 $\chi^2$/NDF: 17.6/12

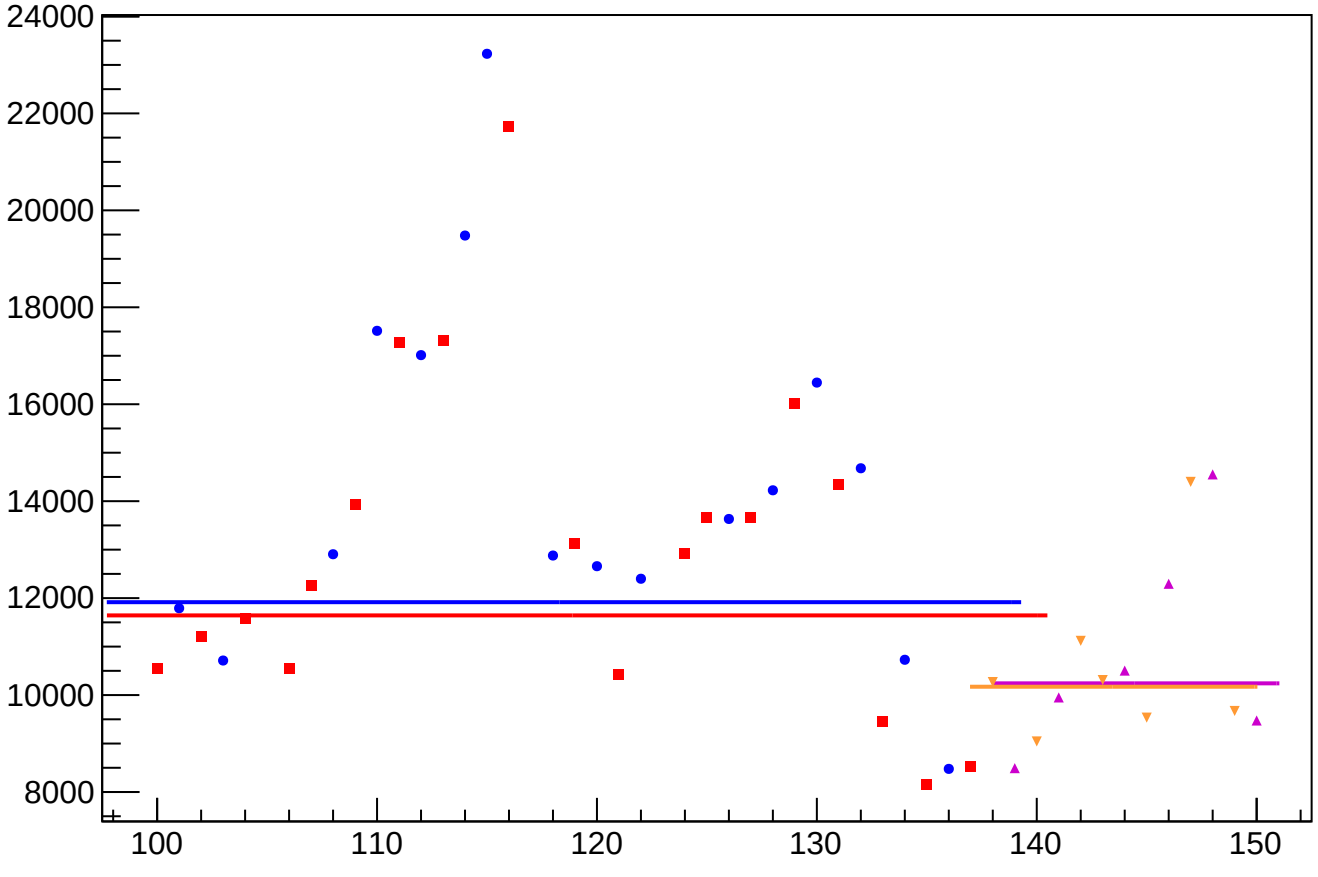
Right: -6.629+/-3.161 $\chi^2$/NDF: 27.8/34

In: -5.185+/-3.222 $\chi^2$/NDF:19.9/21

Out: -0.936+/-3.125 $\chi^2$/NDF:27.3/25

All: -2.996+/-2.243 $\chi^2$/NDF: 48.1/47

# diff_bpm4aesumY_rms vs Slug, Sign Corrected




Right In: 11916.355+/-3.220 $\chi^2$/NDF: 749775.2/15

Left Out: 10172.112+/-3.145 $\chi^2$/NDF:184458.3/6

Right Out: 11643.622+/-3.106 $\chi^2$/NDF: 790359.6/18

Left In: 10241.886+/-3.224 $\chi^2$/NDF:276071.8/5

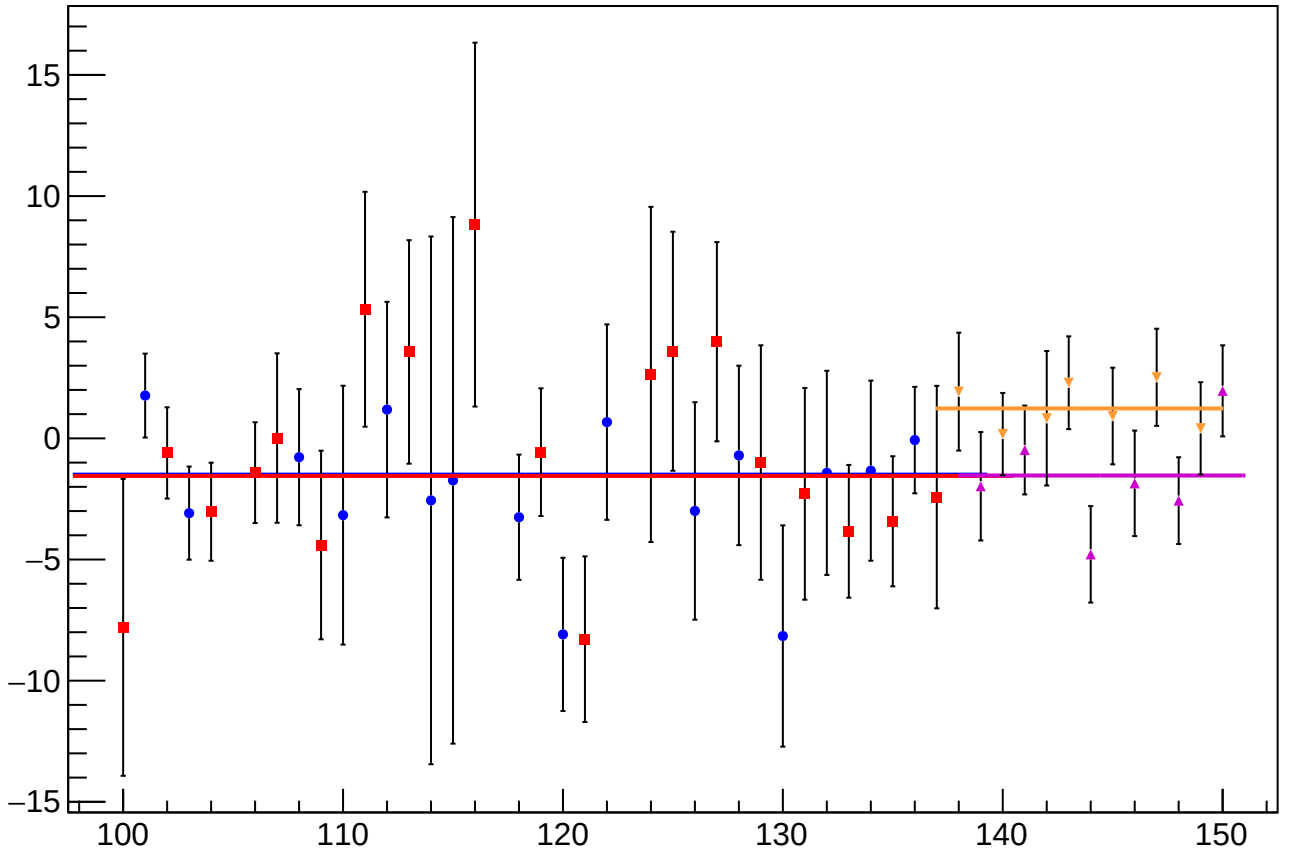
Left: 10206.131+/-2.251 $\chi^2$/NDF: 460770.1/12

Right: 11775.058+/-2.235 $\chi^2$/NDF: 1543851.0/34

In: 11080.059+/-2.278 $\chi^2$/NDF:1160889.6/21

Out: 10916.985+/-2.210 $\chi^2$/NDF:1085666.2/25

All: 10996.030+/-1.586 $\chi^2$/NDF: 2249195.7/4




Right In: -1.496+/-0.778 $\chi^2$/NDF: 12.6/15

Left Out: 1.236+/-0.768 $\chi^2$/NDF:1.4/6

Right Out: -1.551+/-0.745 $\chi^2$/NDF: 16.3/18

Left In: -1.532+/-0.802 $\chi^2$/NDF:6.9/5

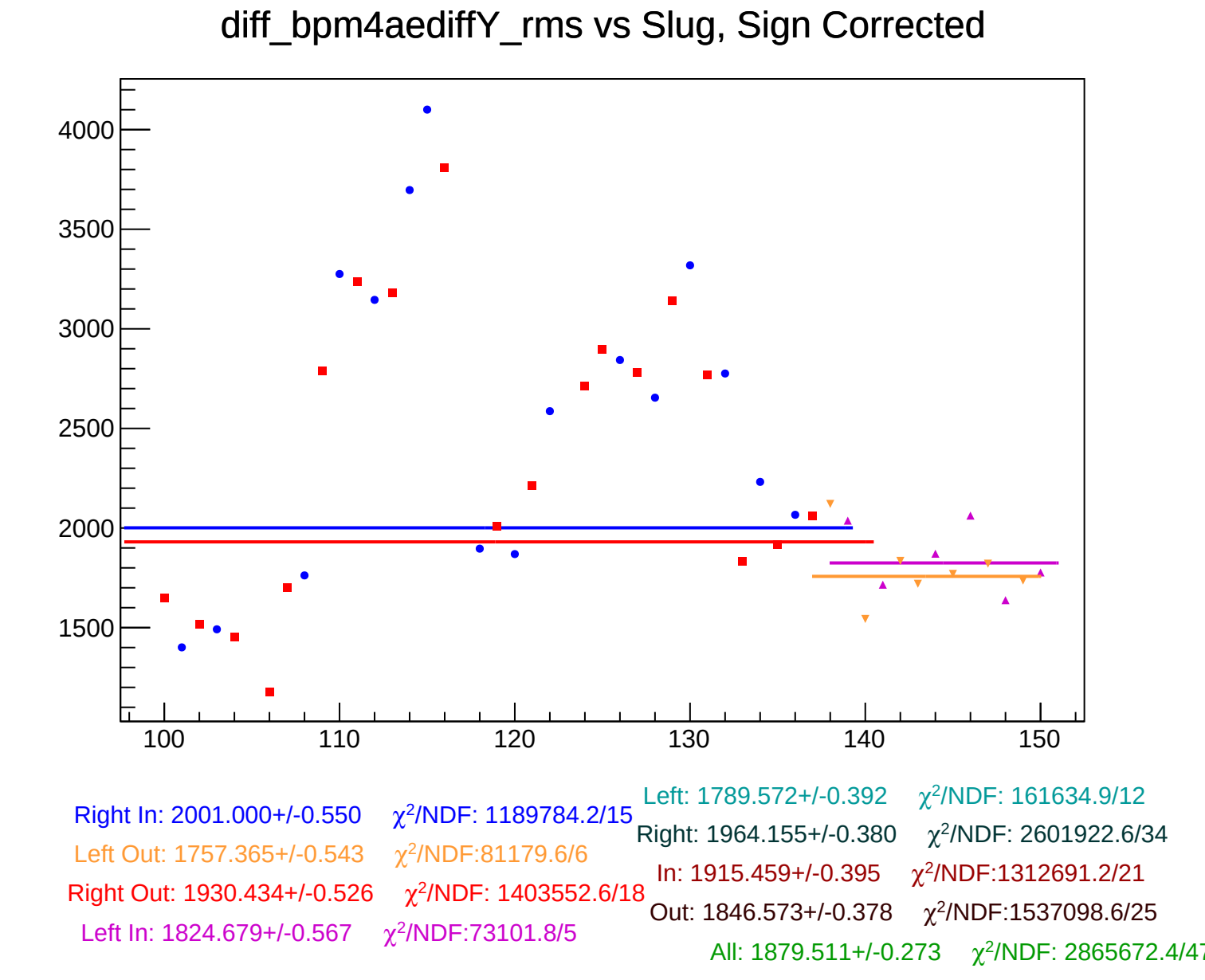
Left: -0.088+/-0.555 $\chi^2$/NDF: 14.5/12

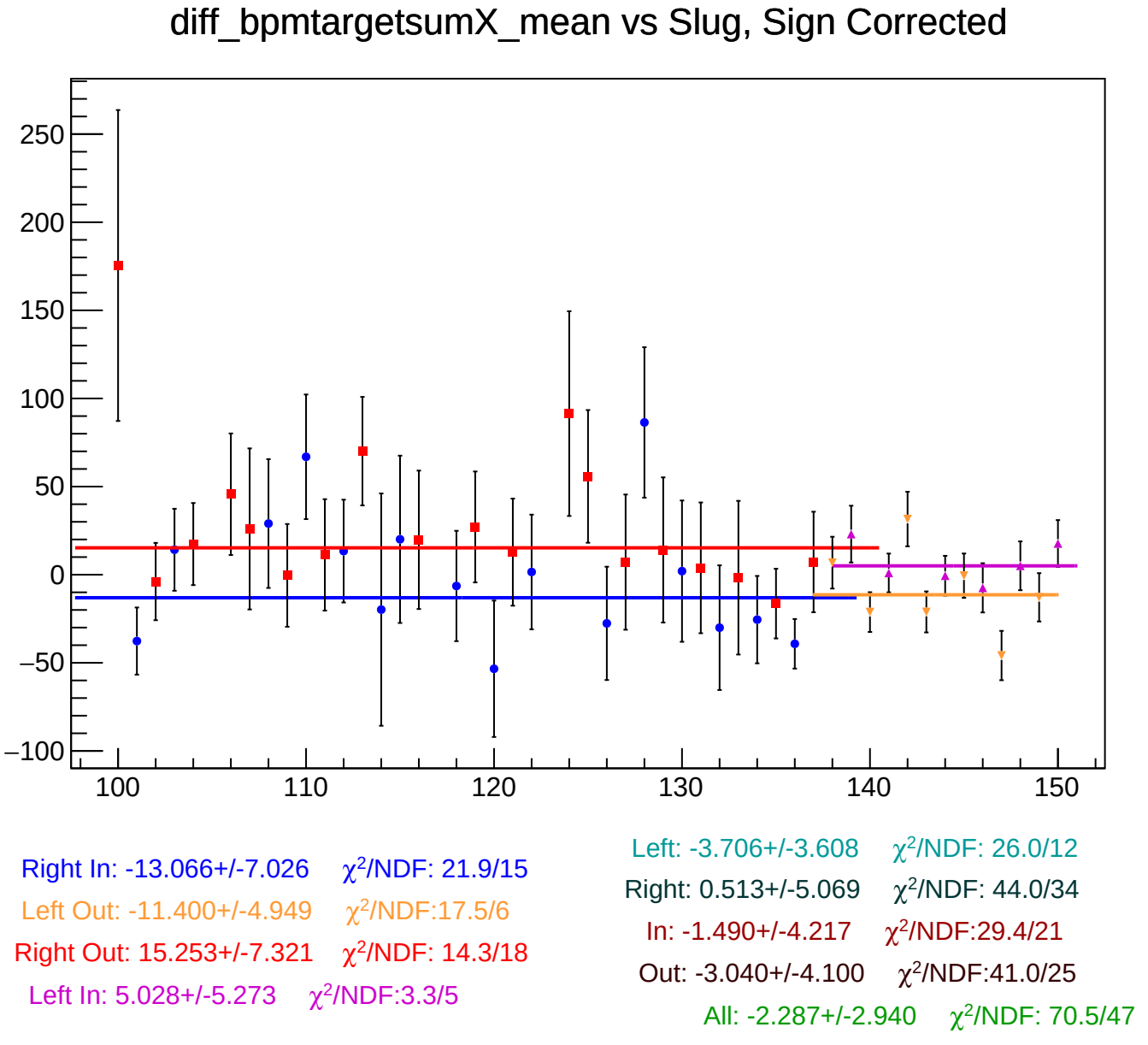
Right: -1.525+/-0.538 $\chi^2$/NDF: 28.9/34

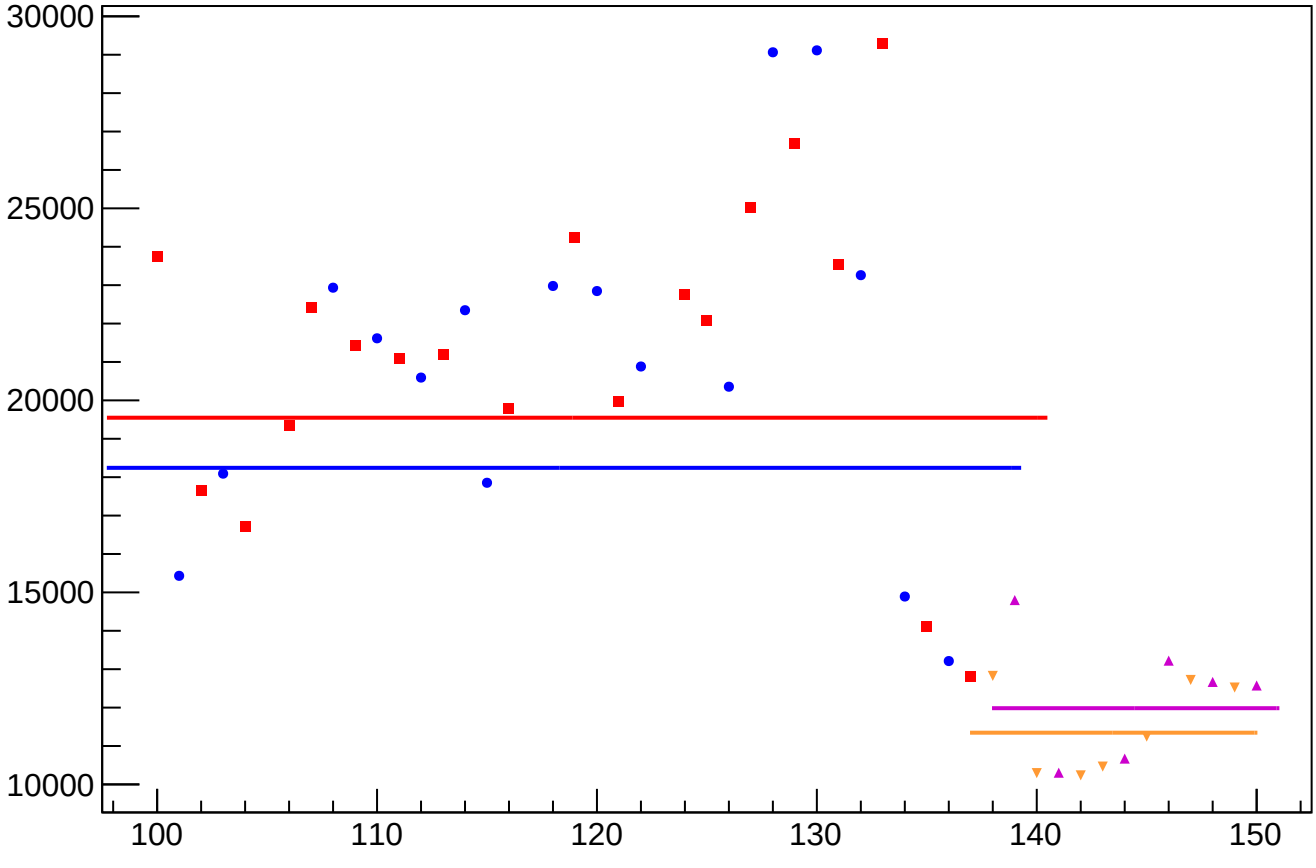
In: -1.514+/-0.558 $\chi^2$/NDF:19.4/21

Out: -0.200+/-0.535 $\chi^2$/NDF:24.5/25

All: -0.828+/-0.386 $\chi^2$/NDF: 46.8/47


diff_bpm4aediffY_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
1500
100
110
120
130
140
150
Right In: 2001.000+/-0.550 χ²/NDF: 1189784.2/15
Left Out: 1757.365+/-0.543 χ²/NDF:81179.6/6
Right Out: 1930.434+/-0.526 χ²/NDF: 1403552.6/18
Left In: 1824.679+/-0.567 χ²/NDF:73101.8/5
Left: 1789.572+/-0.392 χ²/NDF: 161634.9/12
Right: 1964.155+/-0.380 χ²/NDF: 2601922.6/34
In: 1915.459+/-0.395 χ²/NDF:1312691.2/21
Out: 1846.573+/-0.378 χ²/NDF:1537098.6/25
All: 1879.511+/-0.273 χ²/NDF: 2865672.4/47


diff_bpmtargetsumX_mean vs Slug, Sign Corrected
250
200
150
100
50
0
−50
−100
100
110
120
130
140
150
Right In: -13.066+/-7.026 χ²/NDF: 21.9/15
Left Out: -11.400+/-4.949 χ²/NDF:17.5/6
Right Out: 15.253+/-7.321 χ²/NDF: 14.3/18
Left In: 5.028+/-5.273 χ²/NDF:3.3/5
Left: -3.706+/-3.608 χ²/NDF: 26.0/12
Right: 0.513+/-5.069 χ²/NDF: 44.0/34
In: -1.490+/-4.217 χ²/NDF:29.4/21
Out: -3.040+/-4.100 χ²/NDF:41.0/25
All: -2.287+/-2.940 χ²/NDF: 70.5/47




Right In: 18243.342+/-4.968 $\chi^2$/NDF: 819828.6/15

Left Out: 11346.765+/-3.499 $\chi^2$/NDF:93658.5/6

Right Out: 19548.426+/-5.176 $\chi^2$/NDF: 621716.4/18

Left In: 11984.534+/-3.728 $\chi^2$/NDF:159377.1/5

Left: 11645.477+/-2.552 $\chi^2$/NDF: 268592.2/12

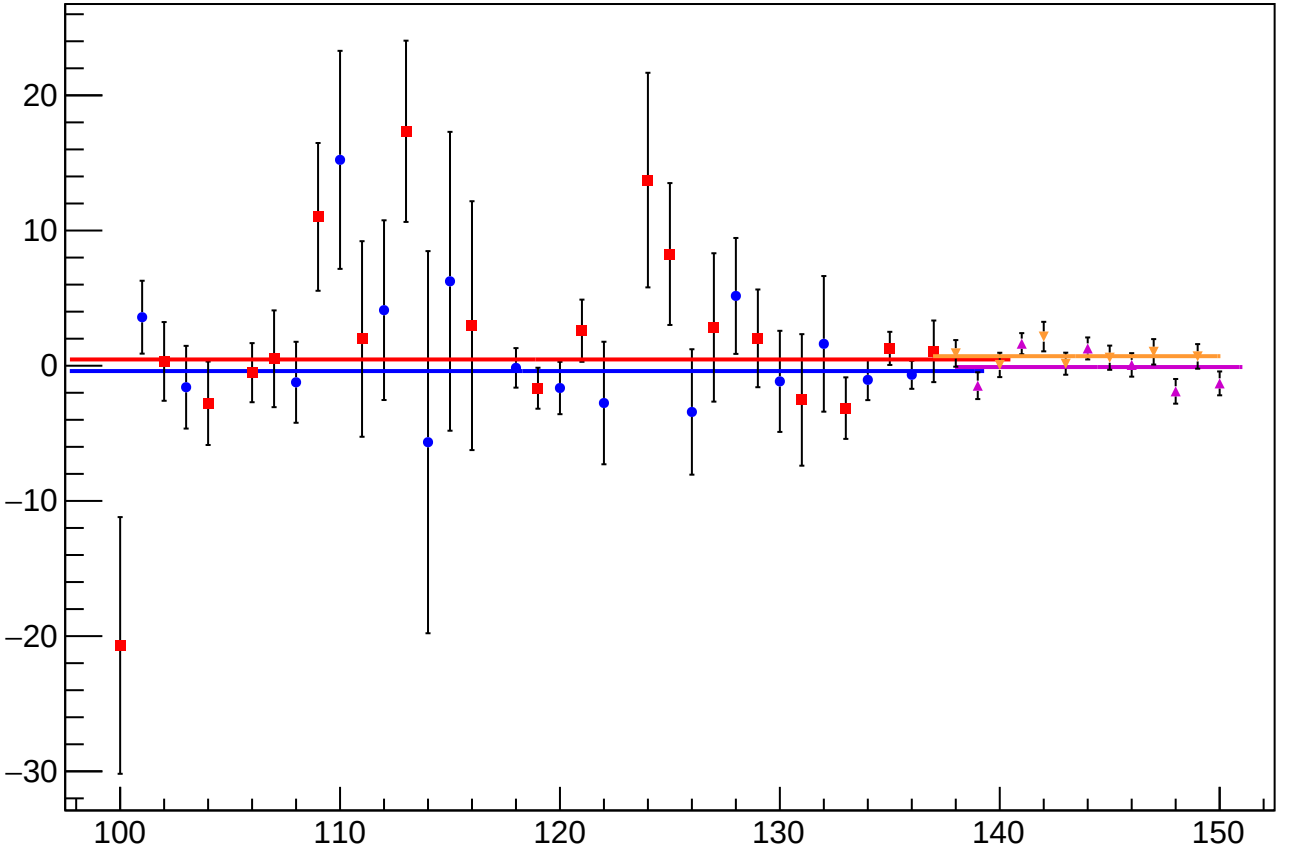
Right: 18869.124+/-3.585 $\chi^2$/NDF: 1474629.7/34

In: 14239.240+/-2.982 $\chi^2$/NDF:1994432.3/21

Out: 13919.320+/-2.899 $\chi^2$/NDF:2438309.3/25

All: 14074.770+/-2.079 $\chi^2$/NDF: 4438658.6/4

# diff_bpmtargetdiffX_mean vs Slug, Sign Corrected




Right In: -0.394+/-0.600 $\chi^2$/NDF: 10.4/15

Left Out: 0.706+/-0.349 $\chi^2$/NDF:2.9/6

Right Out: 0.464+/-0.634 $\chi^2$/NDF: 28.0/18

Left In: -0.097+/-0.354 $\chi^2$/NDF:15.5/5

Left: 0.310+/-0.249 $\chi^2$/NDF: 21.0/12

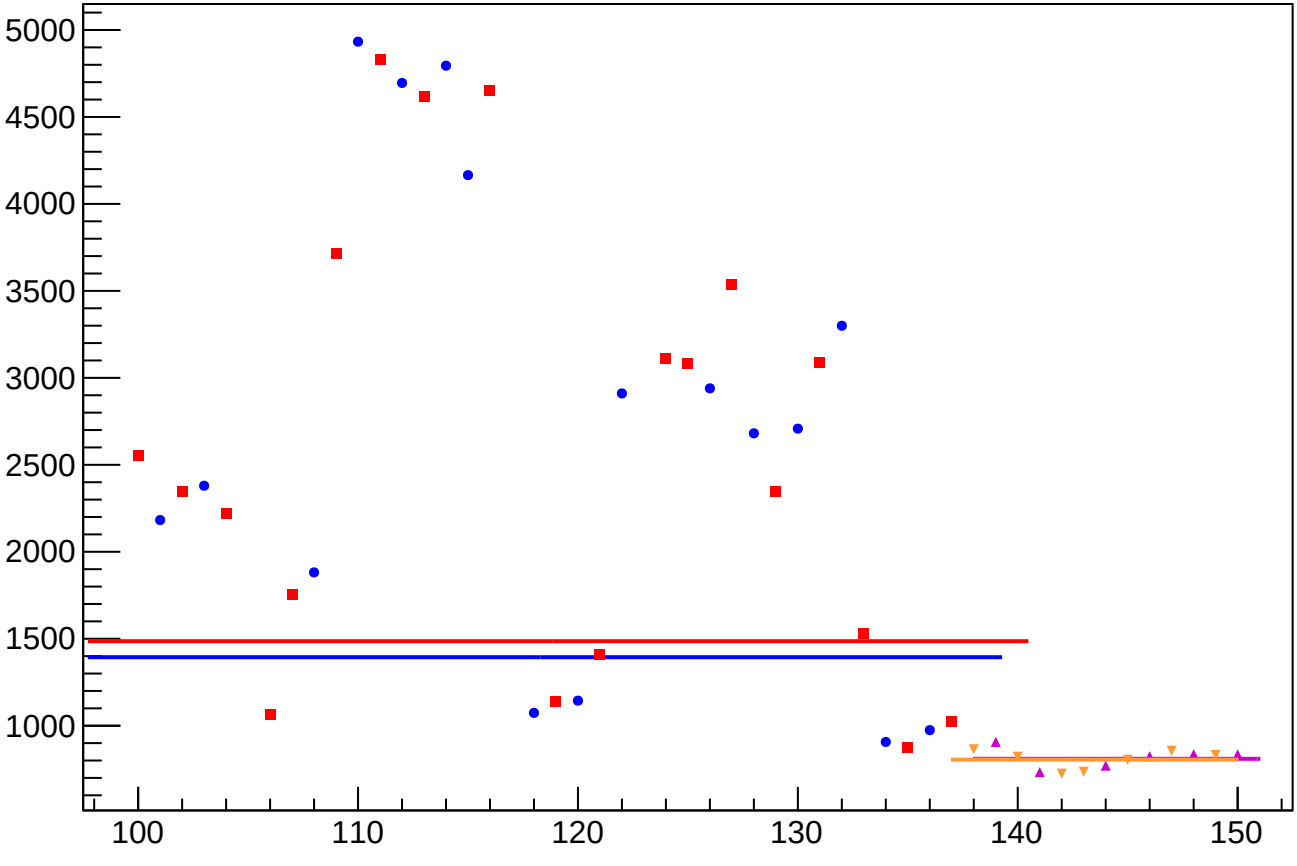
Right: 0.011+/-0.436 $\chi^2$/NDF: 39.4/34

In: -0.174+/-0.305 $\chi^2$/NDF:26.1/21

Out: 0.650+/-0.306 $\chi^2$/NDF:31.1/25

All: 0.237+/-0.216 $\chi^2$/NDF: 60.8/47

# diff_bpmtargetdiffX_rms vs Slug, Sign Corrected




Right In: 1393.912+/-0.424 $\chi^2$/NDF: 3381007.0/15

Left Out: 804.900+/-0.247 $\chi^2$/NDF:41098.7/6

Right Out: 1486.000+/-0.448 $\chi^2$/NDF: 3398817.4/18

Left In: 809.787+/-0.250 $\chi^2$/NDF:47192.0/5

Left: 807.311+/-0.176 $\chi^2$/NDF: 88483.7/12

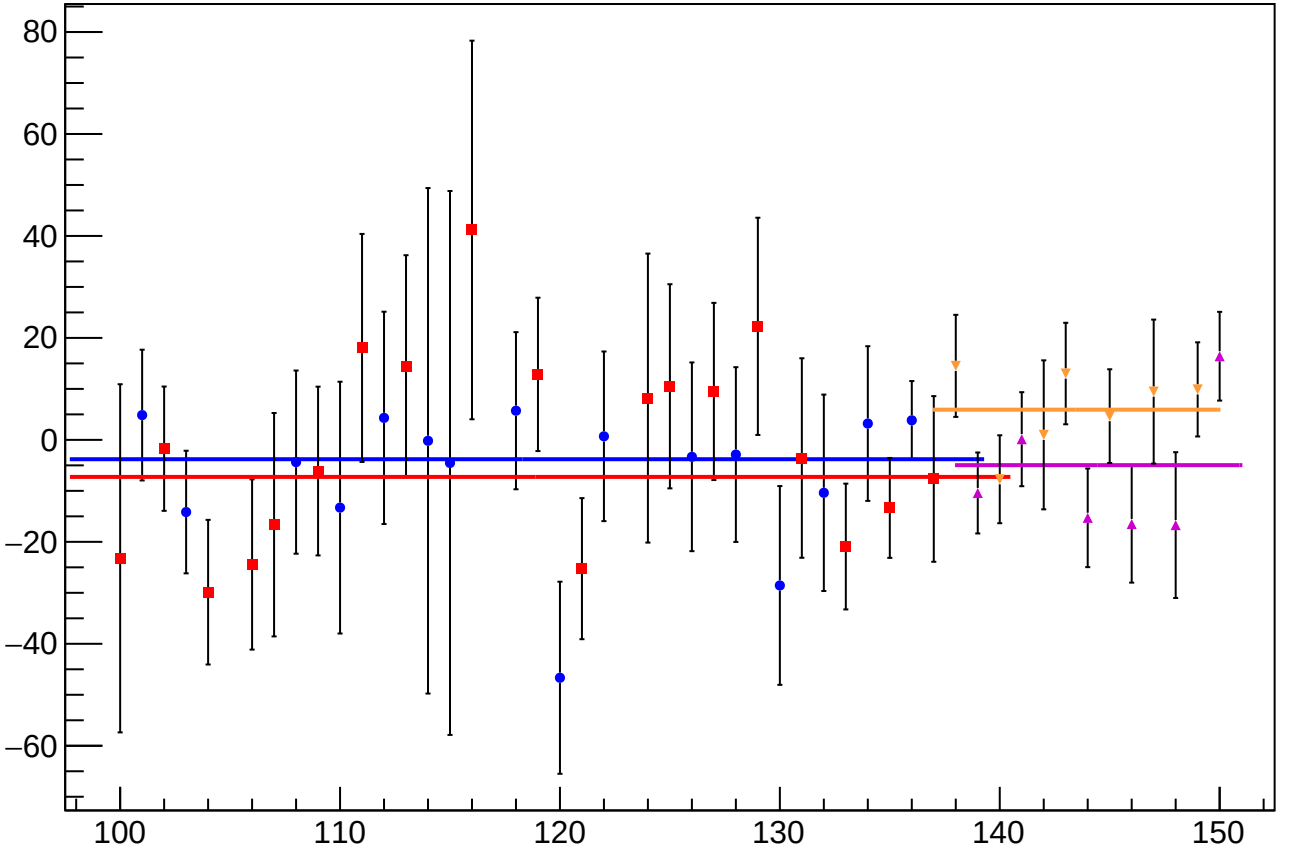
Right: 1437.438+/-0.308 $\chi^2$/NDF: 6802082.3/34

In: 960.624+/-0.216 $\chi^2$/NDF:4833655.0/21

Out: 963.656+/-0.216 $\chi^2$/NDF:5210633.3/25

All: 962.135+/-0.153 $\chi^2$/NDF: 10044386.8/47

# diff_bpmtargetsumY_mean vs Slug, Sign Corrected




Right In: -3.795+/-3.943 $\chi^2$/NDF: 10.1/15

Left Out: 5.925+/-3.870 $\chi^2$/NDF:4.1/6

Right Out: -7.264+/-3.807 $\chi^2$/NDF: 17.3/18

Left In: -4.957+/-3.954 $\chi^2$/NDF:9.6/5

Left: 0.602+/-2.766 $\chi^2$/NDF: 17.6/12

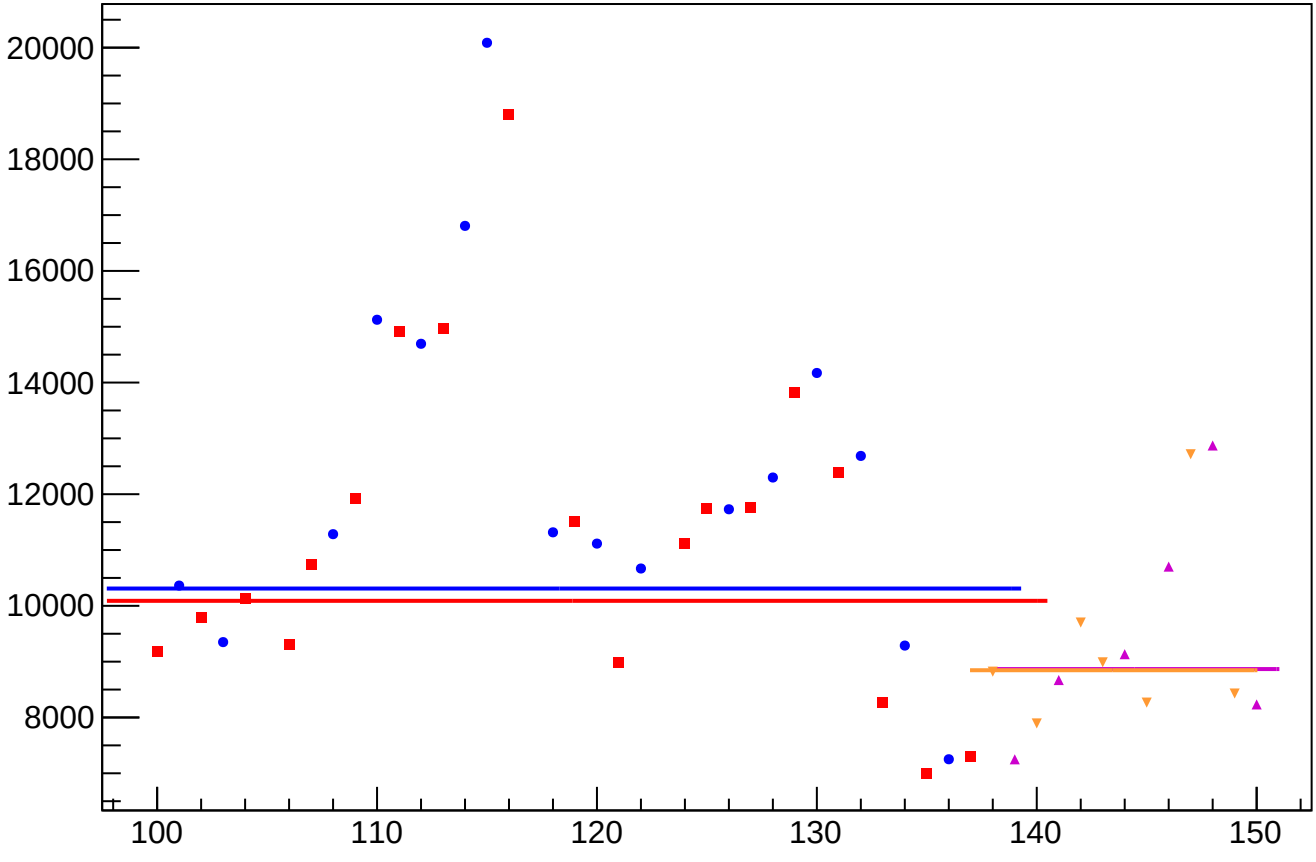
Right: -5.590+/-2.739 $\chi^2$/NDF: 27.7/34

In: -4.374+/-2.792 $\chi^2$/NDF:19.7/21

Out: -0.777+/-2.714 $\chi^2$/NDF:27.3/25

All: -2.524+/-1.946 $\chi^2$/NDF: 47.9/47

# diff_bpmtargetsumY_rms vs Slug, Sign Corrected




Right In: 10309.969+/-2.788 $\chi^2$/NDF: 770518.2/15

Left Out: 8846.257+/-2.736 $\chi^2$/NDF:193843.9/6

Right Out: 10089.584+/-2.692 $\chi^2$/NDF: 792788.1/18

Left In: 8867.297+/-2.796 $\chi^2$/NDF:303840.8/5

Left: 8856.550+/-1.956 $\chi^2$/NDF: 497713.6/12

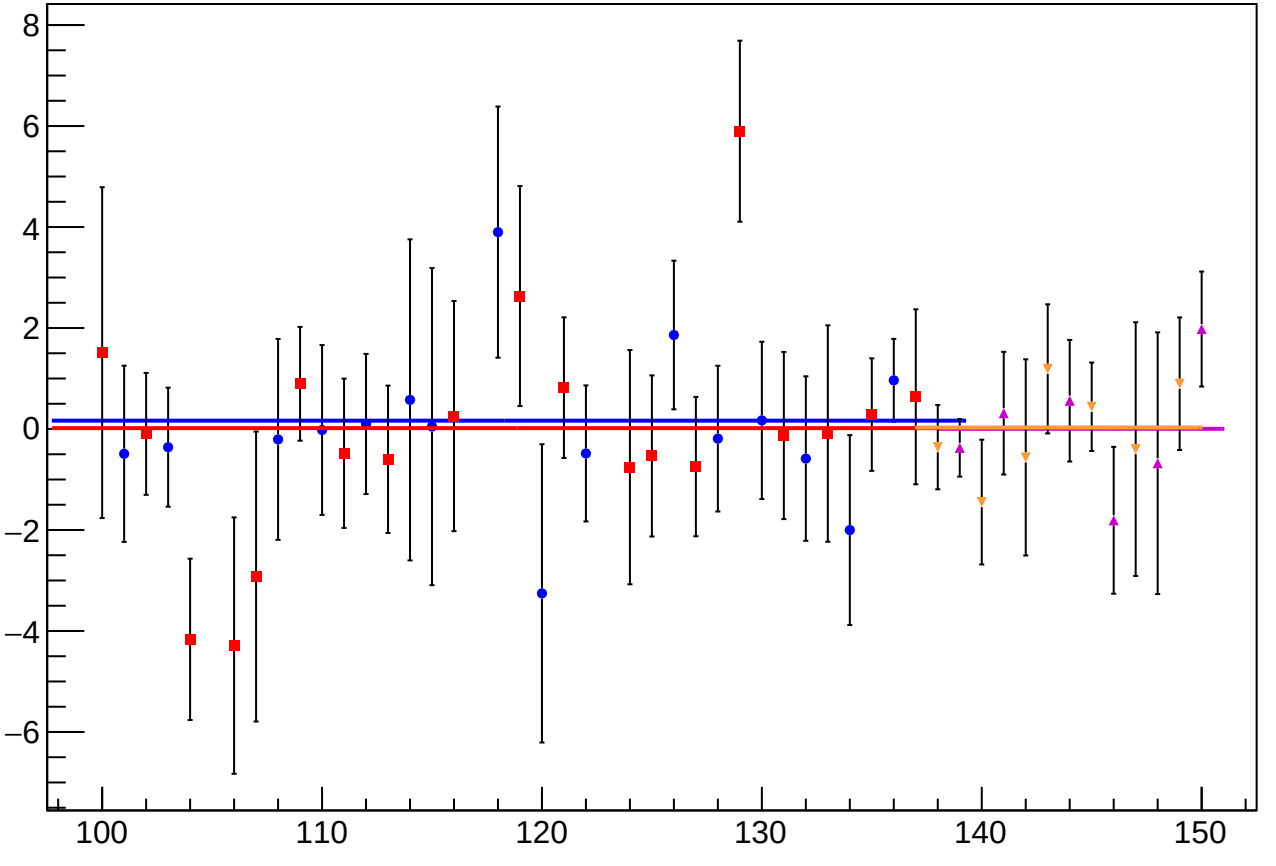
Right: 10195.906+/-1.937 $\chi^2$/NDF: 1566539.8/34

In: 9590.627+/-1.974 $\chi^2$/NDF:1207852.1/21

Out: 9478.076+/-1.919 $\chi^2$/NDF:1091553.3/25

All: 9532.753+/-1.376 $\chi^2$/NDF: 2301076.5/47

# diff_bpmtargetdiffY_mean vs Slug, Sign Corrected




Right In: 0.165+/-0.386 $\chi^2$/NDF: 8.1/15

Left Out: 0.029+/-0.447 $\chi^2$/NDF:3.3/6

Right Out: 0.017+/-0.372 $\chi^2$/NDF: 25.2/18

Left In: 0.004+/-0.414 $\chi^2$/NDF:5.3/5

Left: 0.016+/-0.304 $\chi^2$/NDF: 8.6/12

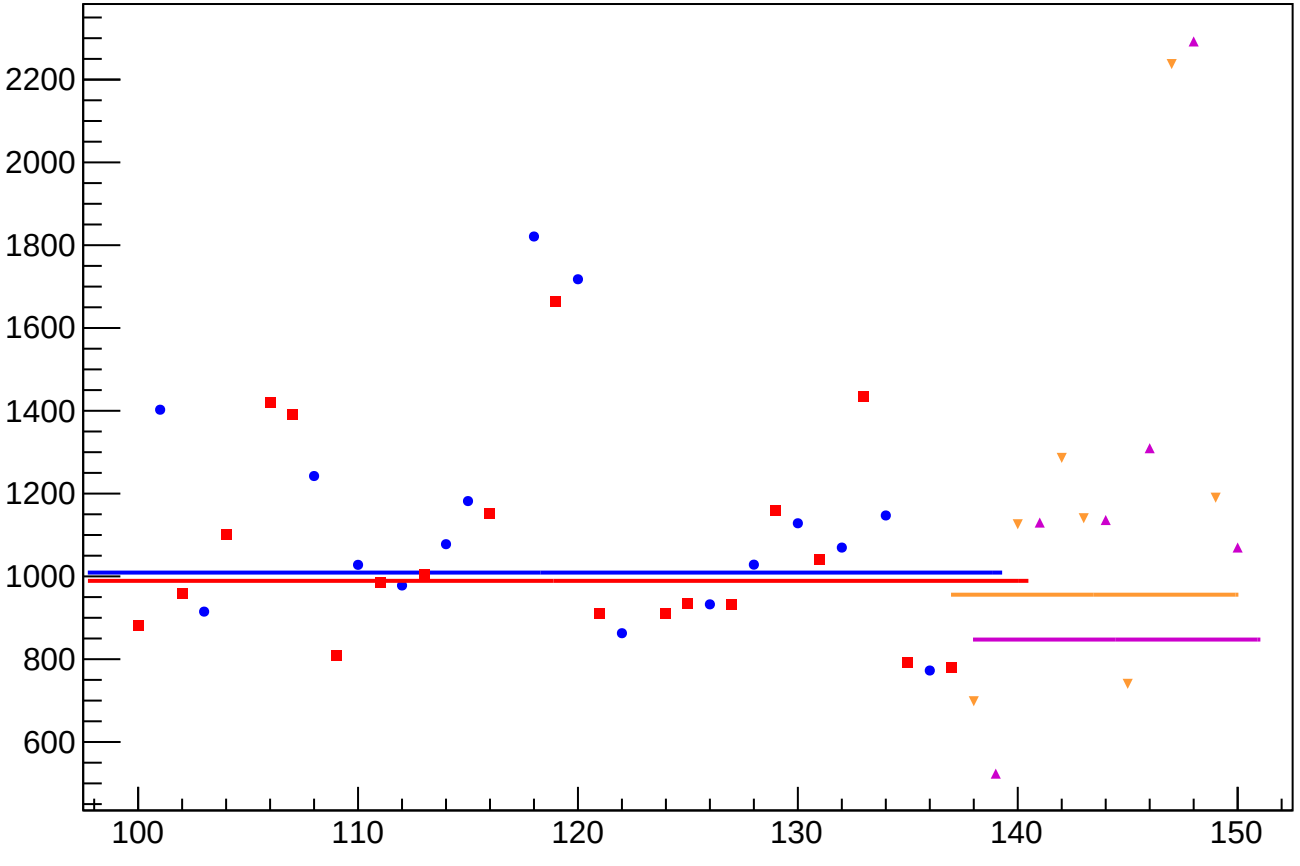
Right: 0.089+/-0.268 $\chi^2$/NDF: 33.4/34

In: 0.090+/-0.282 $\chi^2$/NDF:13.5/21

Out: 0.022+/-0.286 $\chi^2$/NDF:28.4/25

All: 0.057+/-0.201 $\chi^2$/NDF: 42.0/47

# diff_bpmtargetdiffY_rms vs Slug, Sign Corrected




Right In: 1009.222+/-0.273 $\chi^2$/NDF: 699303.9/15

Left Out: 955.801+/-0.316 $\chi^2$/NDF:1032874.4/6

Right Out: 989.246+/-0.263 $\chi^2$/NDF: 575759.9/18

Left In: 847.419+/-0.293 $\chi^2$/NDF:1767891.4/5

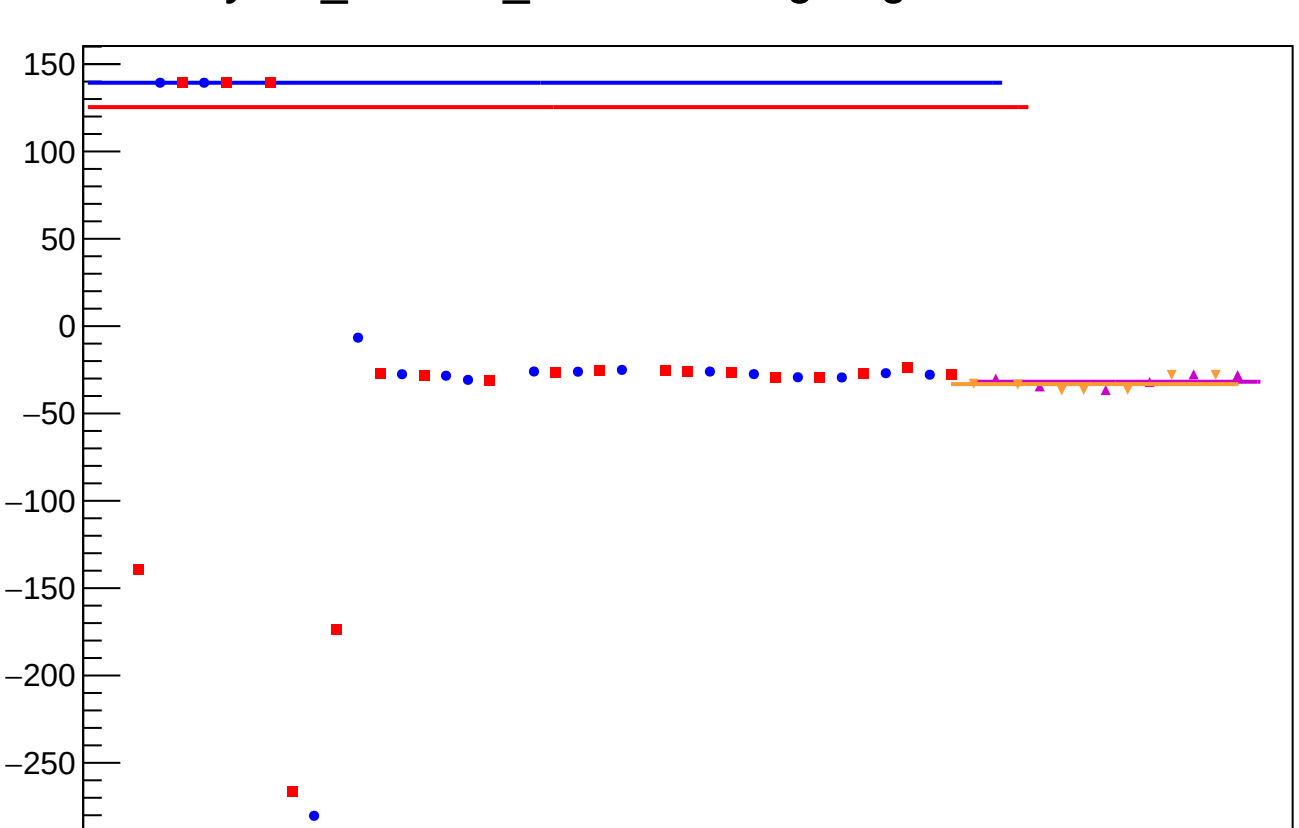
Left: 897.504+/-0.215 $\chi^2$/NDF: 2864109.2/12

Right: 998.863+/-0.190 $\chi^2$/NDF: 1277836.8/34

In: 933.911+/-0.200 $\chi^2$/NDF:2630500.9/21

Out: 975.538+/-0.202 $\chi^2$/NDF:1615252.2/25

All: 954.468+/-0.142 $\chi^2$/NDF: 4267207.0/47




Right In: 139.337+/-0.000 $\chi^2$/NDF: 47088045550.1/15

Left Out: -33.168+/-0.001 $\chi^2$/NDF:40944153.1/6

Right Out: 125.392+/-0.000 $\chi^2$/NDF: 774173119844052.5/18

Left In: -31.833+/-0.001 $\chi^2$/NDF:30649047.6/5

Left: -32.558+/-0.000 $\chi^2$/NDF: 73808635.6/12

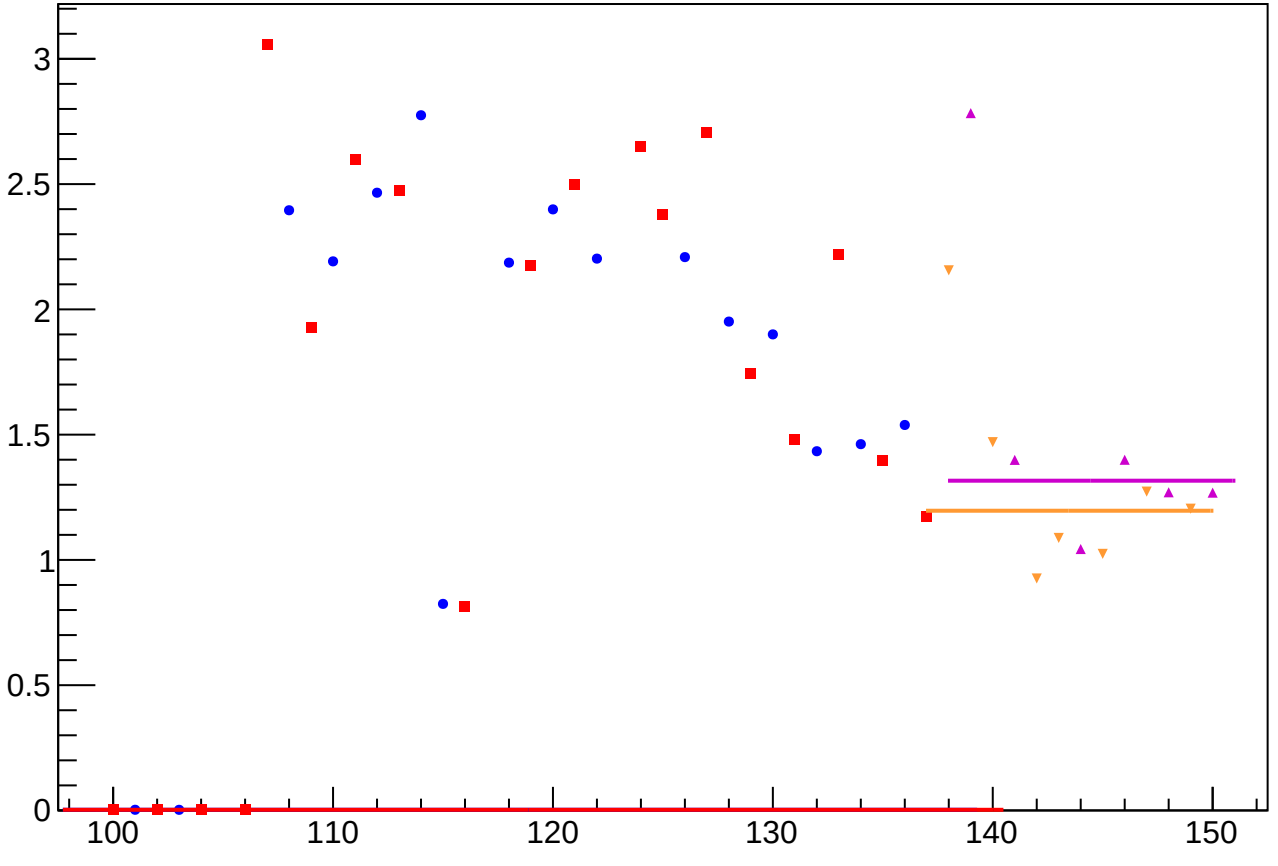
Right: 131.818+/-0.000 $\chi^2$/NDF: 793004999492497

In: 139.335+/-0.000 $\chi^2$/NDF:114210364541.7/21

Out: 125.390+/-0.000 $\chi^2$/NDF:774241462521640.

All: 131.816+/-0.000 $\chi^2$/NDF: 79314034871

# yield_cav4bX_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 9565657.6/15

Left Out: 1.196+/-0.000 $\chi^2$/NDF:399367.9/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 9733783.1/18

Left In: 1.316+/-0.000 $\chi^2$/NDF:561265.1/5

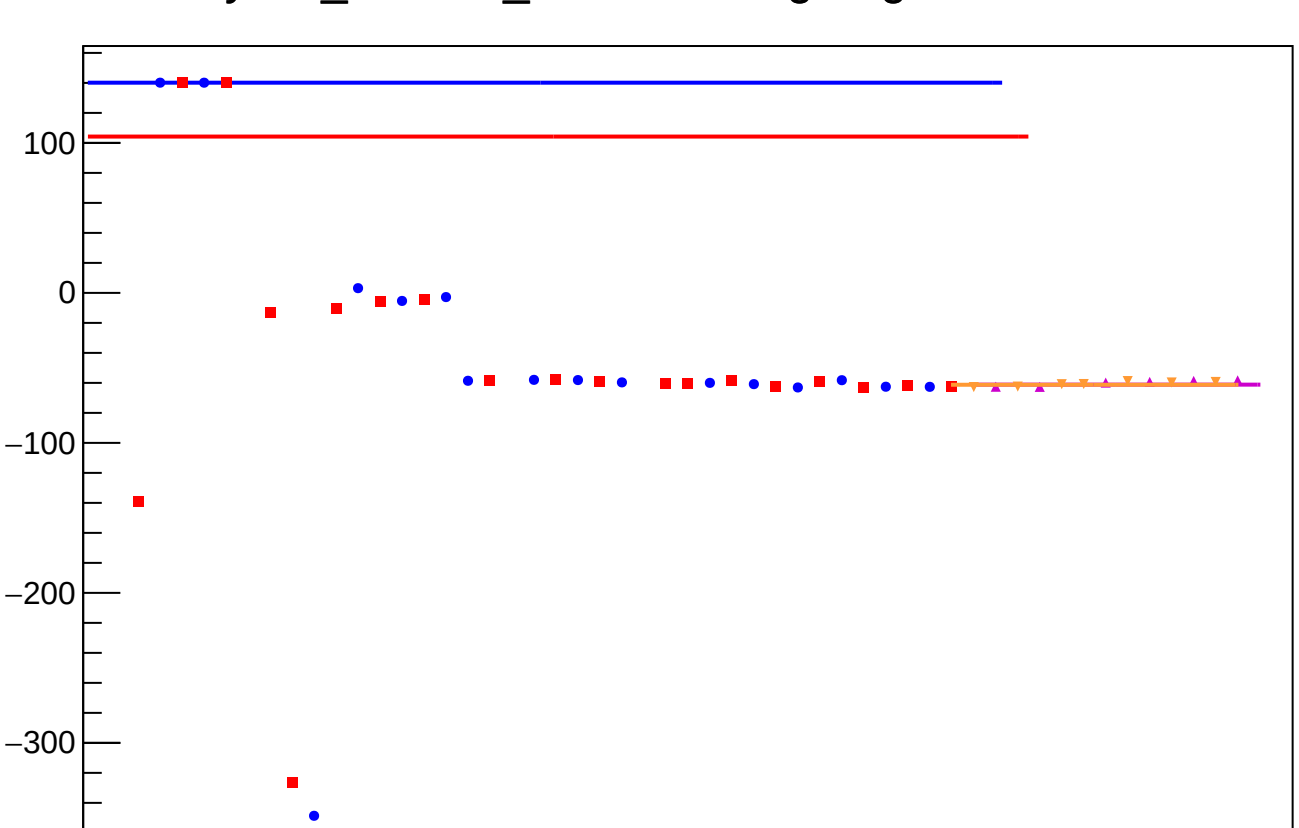
Left: 1.251+/-0.000 $\chi^2$/NDF: 996328.2/12

Right: 0.003+/-0.000 $\chi^2$/NDF: 19299624.2/34

In: 0.003+/-0.000 $\chi^2$/NDF:18028535.0/21

Out: 0.003+/-0.000 $\chi^2$/NDF:17875355.5/25

All: 0.003+/-0.000 $\chi^2$/NDF: 35904090.0/47




Right In: 140.143+/-0.000 $\chi^2$/NDF: 187461723281.9/15

Left Out: -61.249+/-0.000 $\chi^2$/NDF:18036337.1/6

Right Out: 104.224+/-0.000 $\chi^2$/NDF: 1257401882577977.0/18

Left In: -61.171+/-0.000 $\chi^2$/NDF:20604476.7/5

Left: -61.212+/-0.000 $\chi^2$/NDF: 38661428.1/12

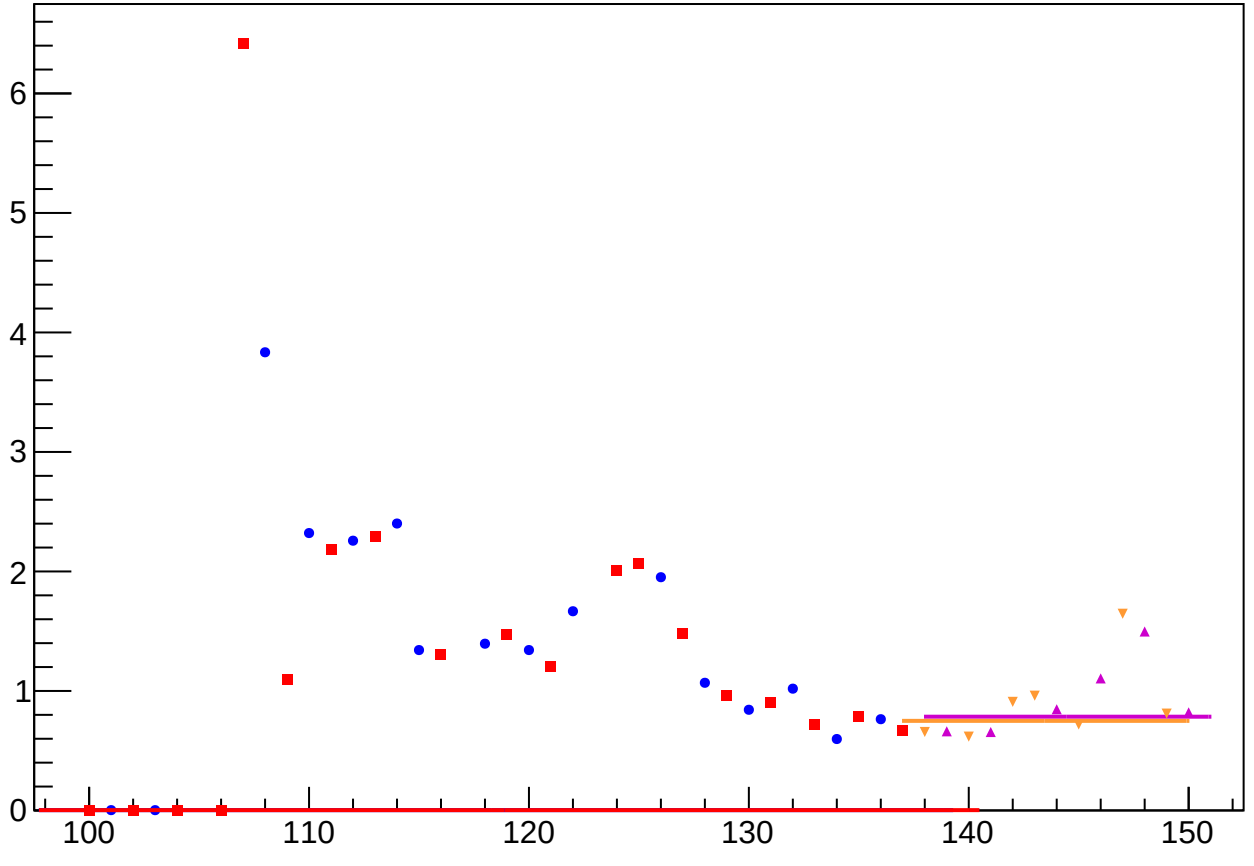
Right: 120.832+/-0.000 $\chi^2$/NDF: 138089570604348

In: 140.136+/-0.000 $\chi^2$/NDF:447408269089.8/21

Out: 104.219+/-0.000 $\chi^2$/NDF:125759512481027

All: 120.825+/-0.000 $\chi^2$/NDF: 13813421487

# yield_cav4bY_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 10578723.1/15

Left Out: 0.750+/-0.000 $\chi^2$/NDF:608792.2/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 10266772.6/18

Left In: 0.785+/-0.000 $\chi^2$/NDF:554176.5/5

Left: 0.766+/-0.000 $\chi^2$/NDF: 1171110.4/12

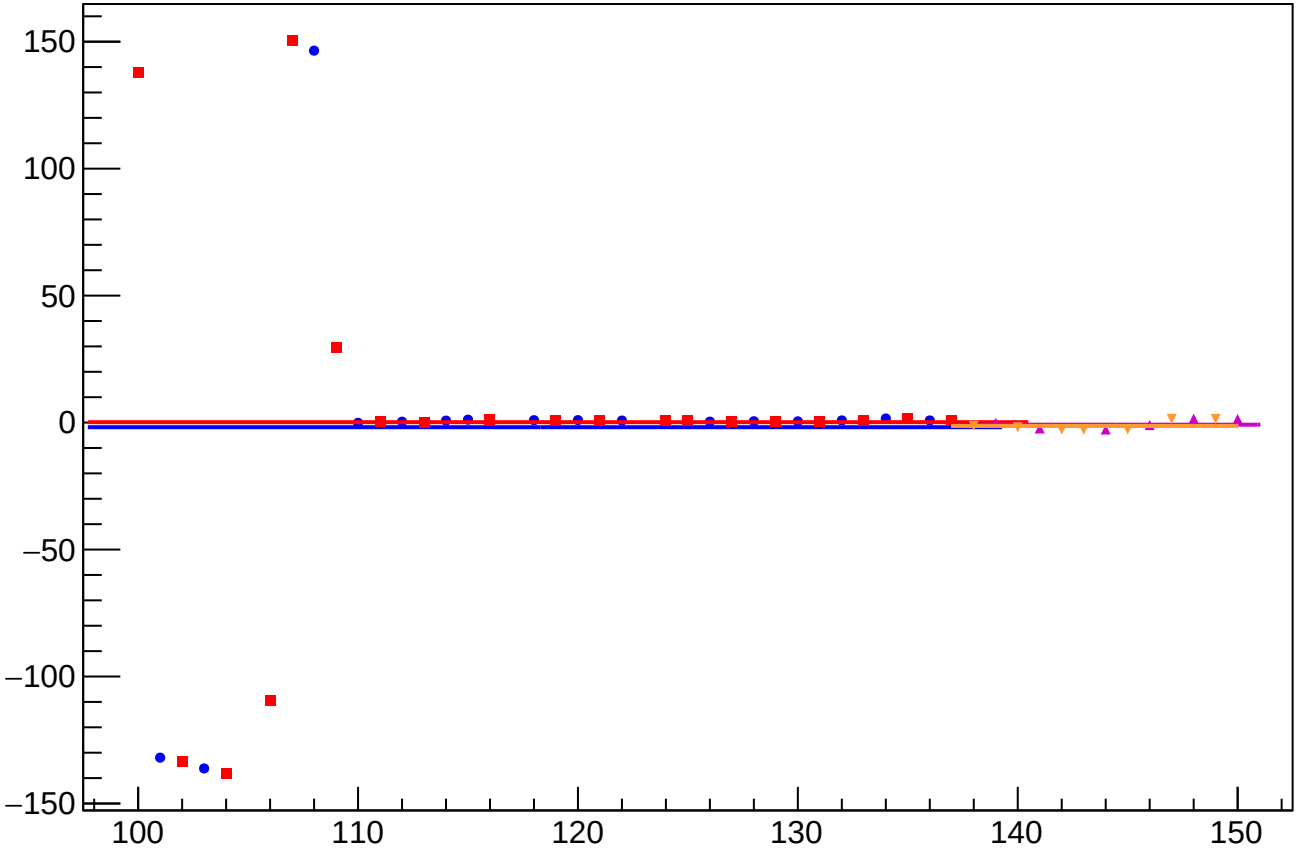
Right: 0.003+/-0.000 $\chi^2$/NDF: 20845702.5/34

In: 0.003+/-0.000 $\chi^2$/NDF:18973821.8/21

Out: 0.003+/-0.000 $\chi^2$/NDF:18752425.5/25

All: 0.003+/-0.000 $\chi^2$/NDF: 37726489.5/47

# yield_cav4cX_mean vs Slug, Sign Corrected




Right In: -1.818+/-0.000 $\chi^2$/NDF: 9887177310.2/15

Left Out: -1.322+/-0.000 $\chi^2$/NDF:49522520.9/6

Right Out: 0.165+/-0.000 $\chi^2$/NDF: 3611245020.0/18

Left In: -0.827+/-0.000 $\chi^2$/NDF:41108641.2/5

Left: -1.095+/-0.000 $\chi^2$/NDF: 92381395.1/12

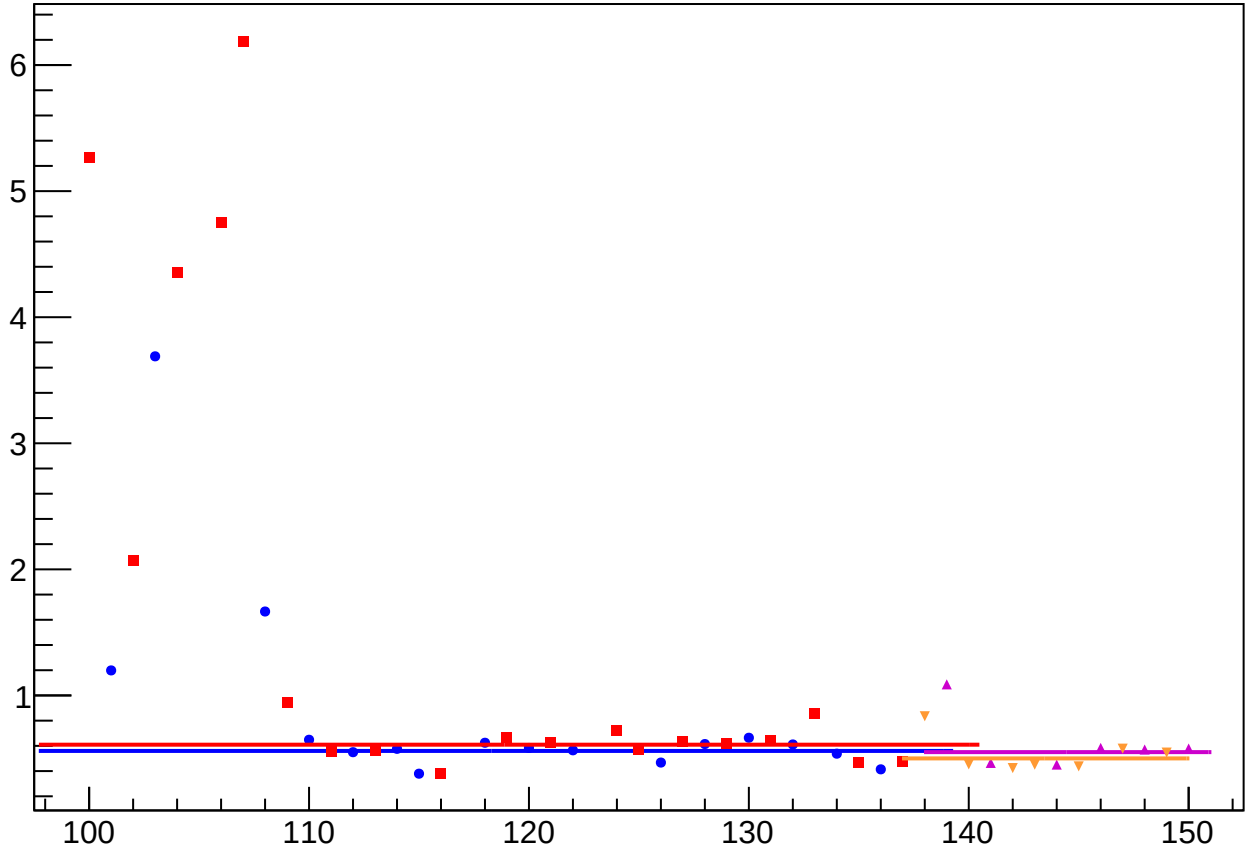
Right: -0.919+/-0.000 $\chi^2$/NDF: 13527173630.8/34

In: -1.372+/-0.000 $\chi^2$/NDF:9935404858.3/21

Out: -0.635+/-0.000 $\chi^2$/NDF:3676686324.2/25

All: -1.006+/-0.000 $\chi^2$/NDF: 13620009300.8/

# yield_cav4cX_rms vs Slug, Sign Corrected




Right In: 0.560+/-0.000 $\chi^2$/NDF: 1598439.5/15

Left Out: 0.500+/-0.000 $\chi^2$/NDF:317824.2/6

Right Out: 0.609+/-0.000 $\chi^2$/NDF: 2476010.3/18

Left In: 0.550+/-0.000 $\chi^2$/NDF:524808.2/5

Left: 0.523+/-0.000 $\chi^2$/NDF: 878222.0/12

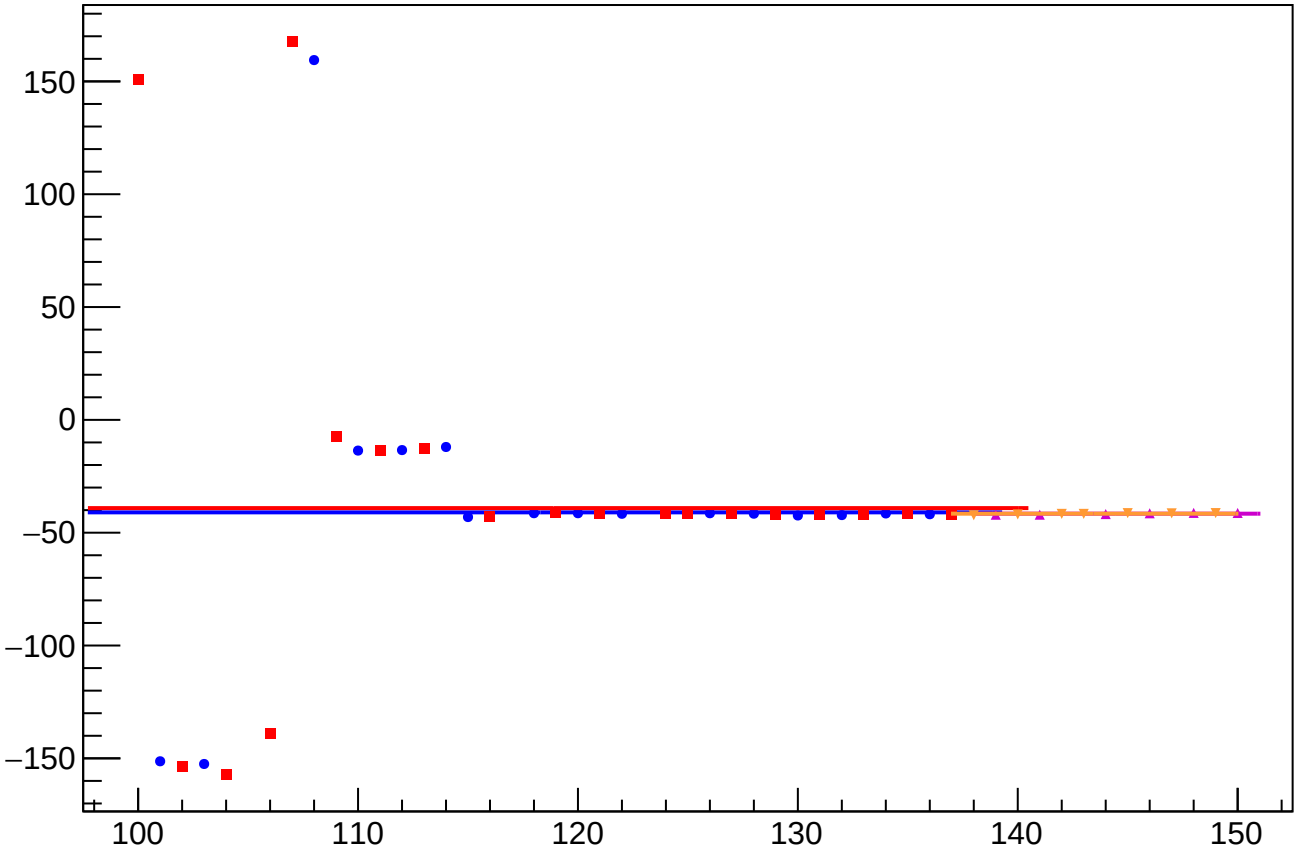
Right: 0.582+/-0.000 $\chi^2$/NDF: 4110324.4/34

In: 0.556+/-0.000 $\chi^2$/NDF:2124536.7/21

Out: 0.551+/-0.000 $\chi^2$/NDF:2964429.8/25

All: 0.553+/-0.000 $\chi^2$/NDF: 5089633.3/47

# yield_cav4cY_mean vs Slug, Sign Corrected




Right In: -40.987+/-0.000 $\chi^2$/NDF: 3449622021.8/15

Left Out: -41.570+/-0.000 $\chi^2$/NDF:2965863.6/6

Right Out: -39.101+/-0.000 $\chi^2$/NDF: 2480133442.0/18

Left In: -41.577+/-0.000 $\chi^2$/NDF:3080904.4/5

Left: -41.573+/-0.000 $\chi^2$/NDF: 6047572.7/12

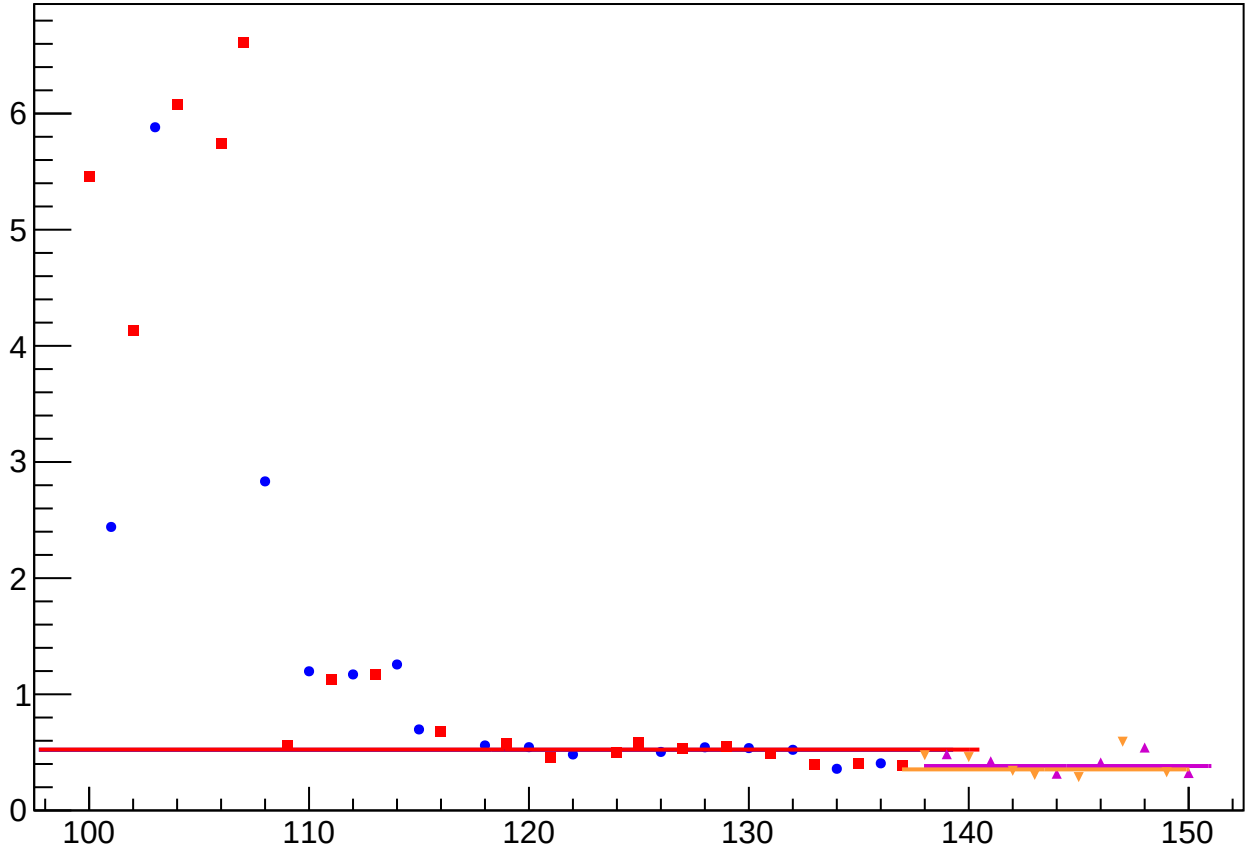
Right: -40.058+/-0.000 $\chi^2$/NDF: 5962079351.2/34

In: -41.361+/-0.000 $\chi^2$/NDF:3456775261.1/21

Out: -40.777+/-0.000 $\chi^2$/NDF:2557194531.6/25

All: -41.054+/-0.000 $\chi^2$/NDF: 6023000394.8/

# yield_cav4cY_rms vs Slug, Sign Corrected




Right In: 0.522+/-0.000 $\chi^2$/NDF: 2949327.6/15

Left Out: 0.354+/-0.000 $\chi^2$/NDF:558483.6/6

Right Out: 0.524+/-0.000 $\chi^2$/NDF: 3264460.0/18

Left In: 0.383+/-0.000 $\chi^2$/NDF:362353.3/5

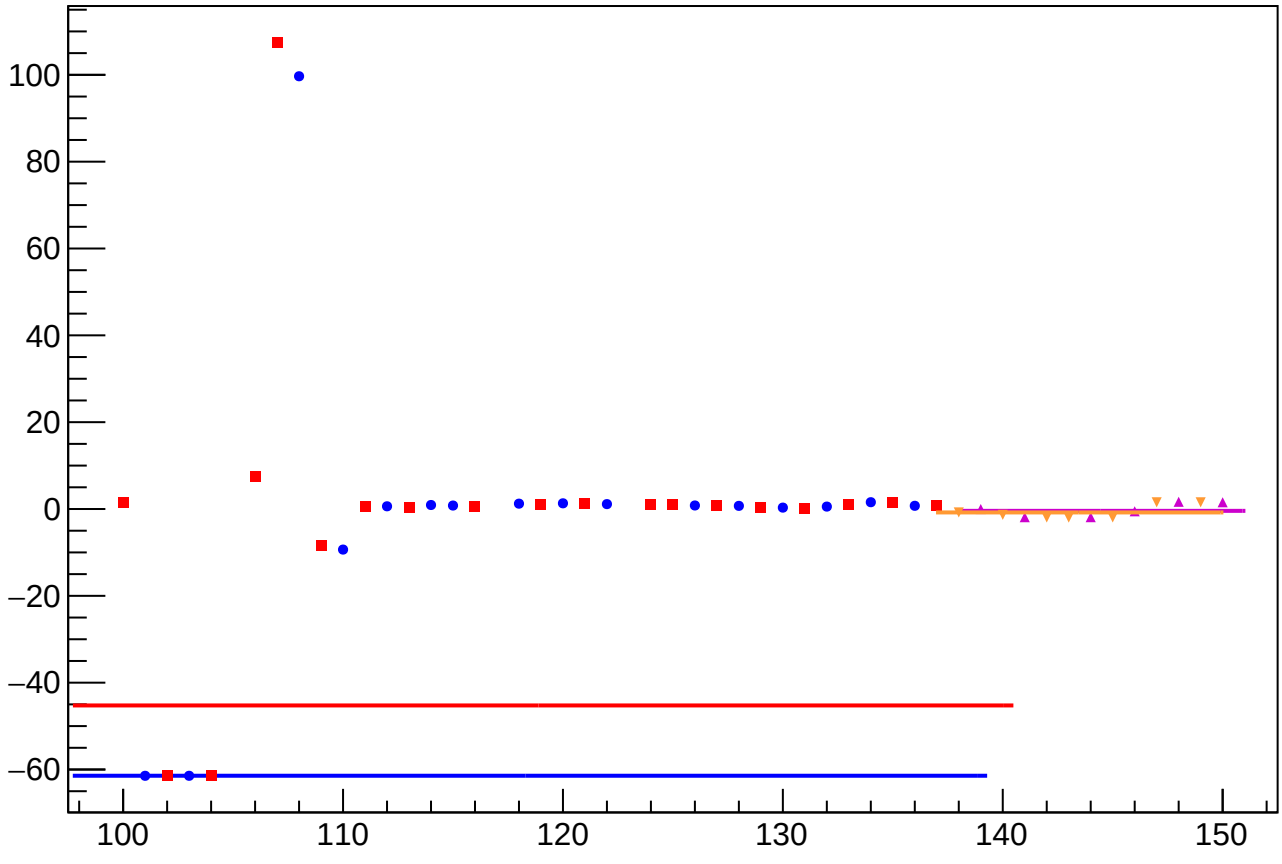
Left: 0.367+/-0.000 $\chi^2$/NDF: 949965.7/12

Right: 0.523+/-0.000 $\chi^2$/NDF: 6213857.4/34

In: 0.434+/-0.000 $\chi^2$/NDF:3766750.3/21

Out: 0.408+/-0.000 $\chi^2$/NDF:4528877.6/25

All: 0.420+/-0.000 $\chi^2$/NDF: 8329509.9/47




Right In: -61.436+/-0.000 $\chi^2$/NDF: 273496278670.9/15

Left Out: -0.789+/-0.000 $\chi^2$/NDF:49303447.8/6

Right Out: -45.245+/-0.000 $\chi^2$/NDF: 357870328061478.0/18

Left In: -0.425+/-0.000 $\chi^2$/NDF:43850802.3/5

Left: -0.621+/-0.000 $\chi^2$/NDF: 94493642.8/12

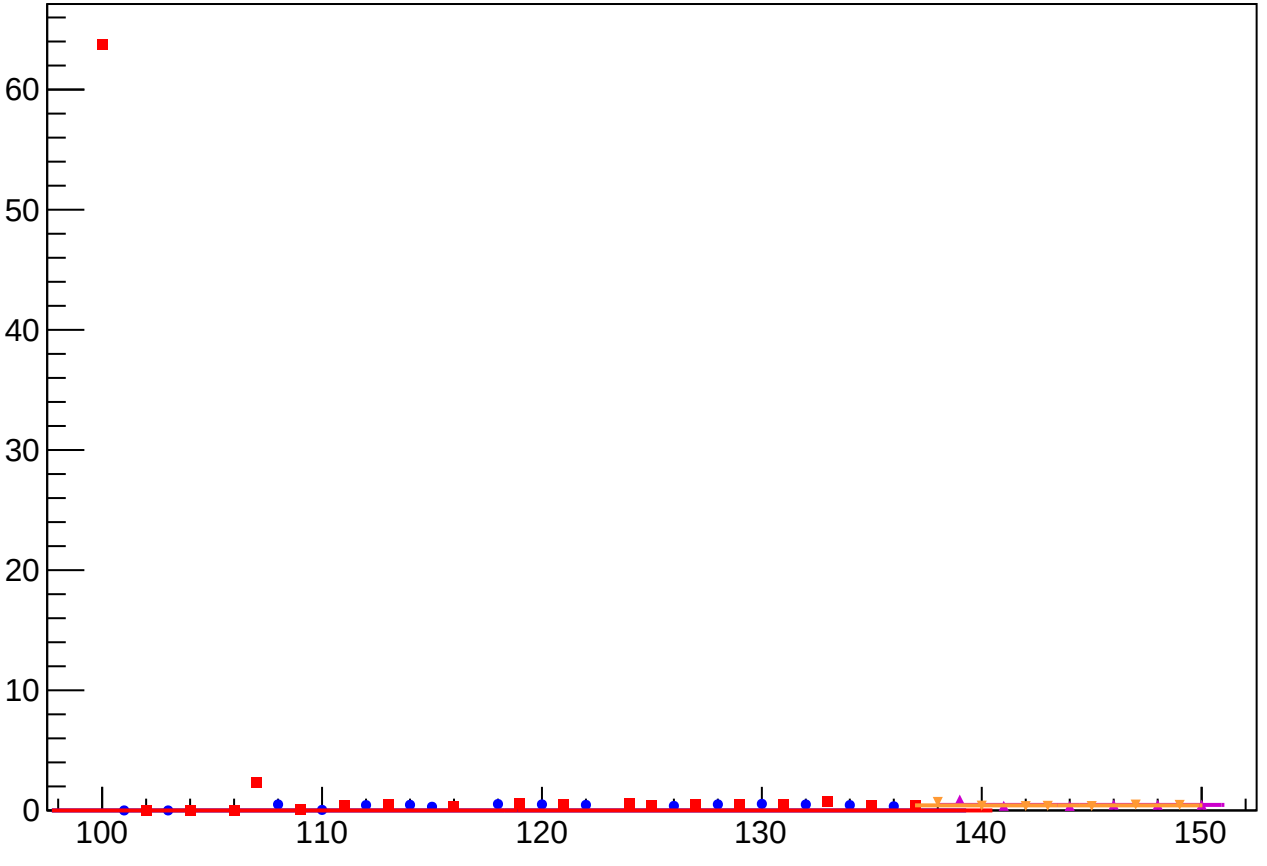
Right: -52.749+/-0.000 $\chi^2$/NDF: 409121918007227

In: -61.433+/-0.000 $\chi^2$/NDF:343333785473.7/21

Out: -45.243+/-0.000 $\chi^2$/NDF:357913519563215.1

All: -52.746+/-0.000 $\chi^2$/NDF: 409232280961

# yield_cav4dX_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 9156181.6/15

Left Out: 0.424+/-0.000 $\chi^2$/NDF:317589.7/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9345109.5/18

Left In: 0.462+/-0.000 $\chi^2$/NDF:518496.8/5

Left: 0.442+/-0.000 $\chi^2$/NDF: 864995.7/12

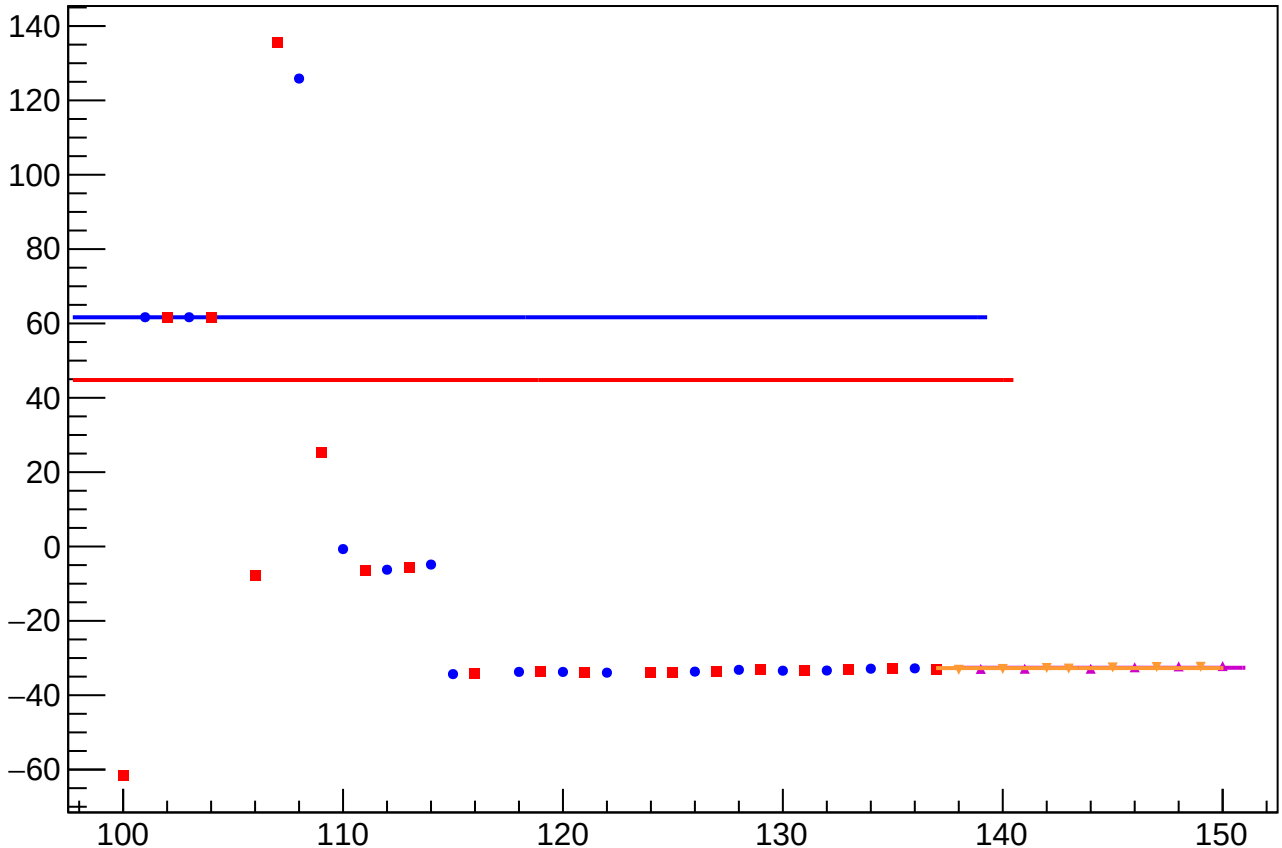
Right: 0.001+/-0.000 $\chi^2$/NDF: 18501293.3/34

In: 0.001+/-0.000 $\chi^2$/NDF:17629293.5/21

Out: 0.001+/-0.000 $\chi^2$/NDF:17464142.2/25

All: 0.001+/-0.000 $\chi^2$/NDF: 35093442.6/47

# yield_cav4dY_mean vs Slug, Sign Corrected




Right In: 61.662+/-0.000 $\chi^2$/NDF: 369463062074.0/15

Left Out: -32.705+/-0.000 $\chi^2$/NDF:3949590.4/6

Right Out: 44.786+/-0.000 $\chi^2$/NDF: 3660947782299 51.8/18

Left In: -32.614+/-0.000 $\chi^2$/NDF:5324967.9/5

Left: -32.662+/-0.000 $\chi^2$/NDF: 9498863.6/12

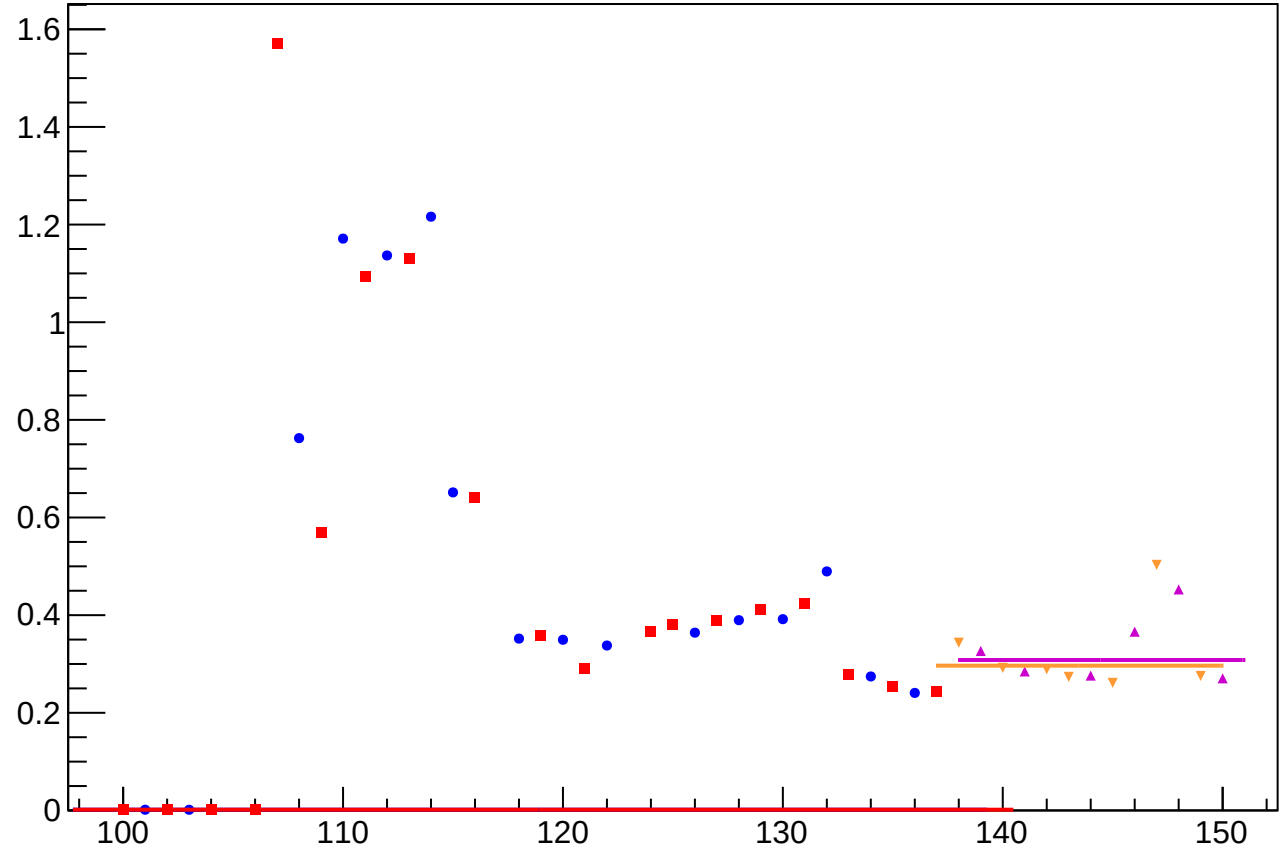
Right: 52.689+/-0.000 $\chi^2$/NDF: 417568081486015.

In: 61.648+/-0.000 $\chi^2$/NDF:825875488867.2/21

Out: 44.774+/-0.000 $\chi^2$/NDF:366433698951924.2

All: 52.676+/-0.000 $\chi^2$/NDF: 4183533207516

# yield_cav4dY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 11024564.1/15

Left Out: 0.297+/-0.000 $\chi^2$/NDF:347949.3/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 10559220.1/18

Left In: 0.308+/-0.000 $\chi^2$/NDF:275559.9/5

Left: 0.302+/-0.000 $\chi^2$/NDF: 630750.8/12

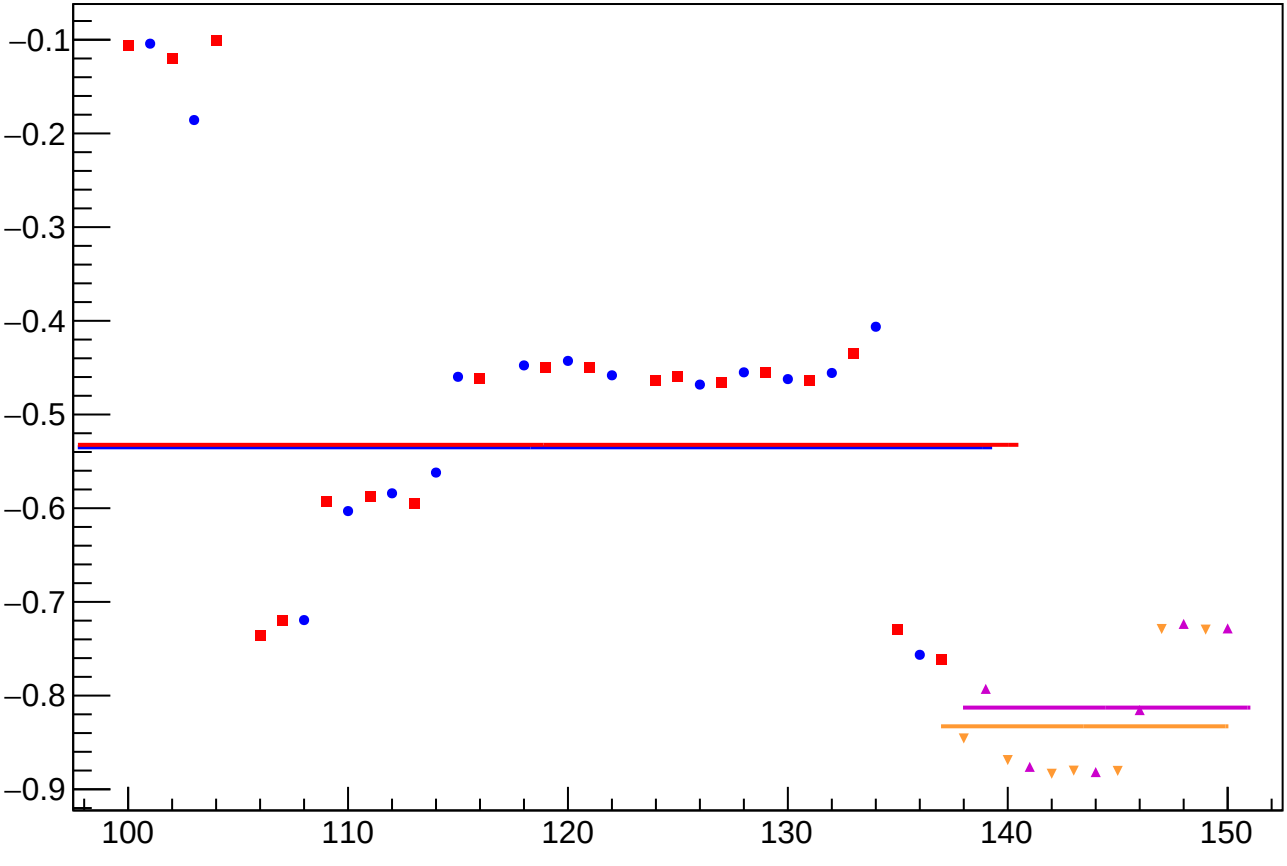
Right: 0.002+/-0.000 $\chi^2$/NDF: 21583912.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:20957836.2/21

Out: 0.002+/-0.000 $\chi^2$/NDF:20732676.2/25

All: 0.002+/-0.000 $\chi^2$/NDF: 41690600.8/47

# yield_bpm4aX_mean vs Slug, Sign Corrected




Right In: -0.535+/-0.000 $\chi^2$/NDF: 300846309.5/15

Left Out: -0.833+/-0.000 $\chi^2$/NDF:51816129.7/6

Right Out: -0.532+/-0.000 $\chi^2$/NDF: 214124648.5/18

Left In: -0.813+/-0.000 $\chi^2$/NDF:45308375.3/5

Left: -0.824+/-0.000 $\chi^2$/NDF: 99276594.5/12

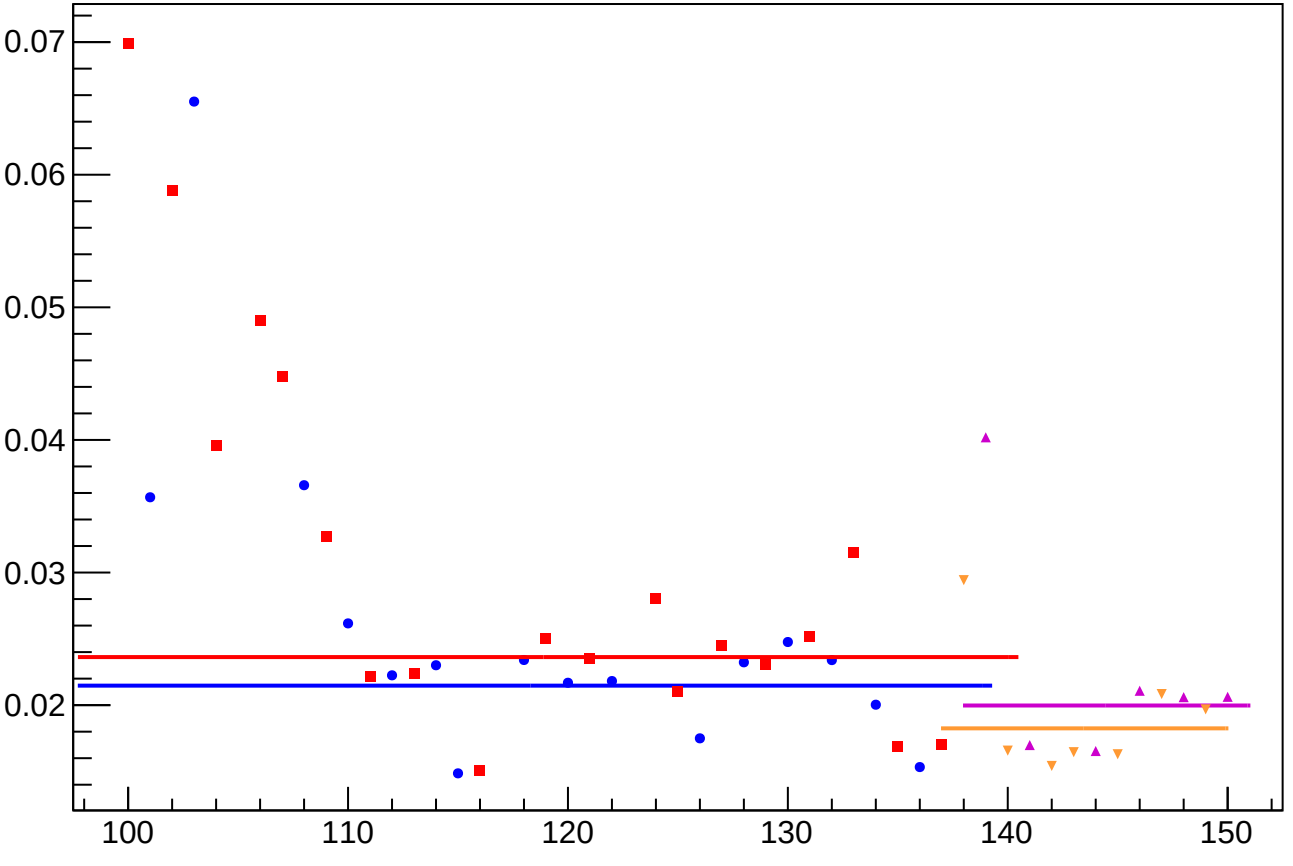
Right: -0.534+/-0.000 $\chi^2$/NDF: 515008587.7/34

In: -0.663+/-0.000 $\chi^2$/NDF:761033413.9/21

Out: -0.694+/-0.000 $\chi^2$/NDF:752586219.0/25

All: -0.679+/-0.000 $\chi^2$/NDF: 1524008948.1/4

# yield_bpm4aX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1153987.6/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:276956.3/6

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 1277268.6/18

Left In: 0.020+/-0.000 $\chi^2$/NDF:526521.5/5

Left: 0.019+/-0.000 $\chi^2$/NDF: 835503.1/12

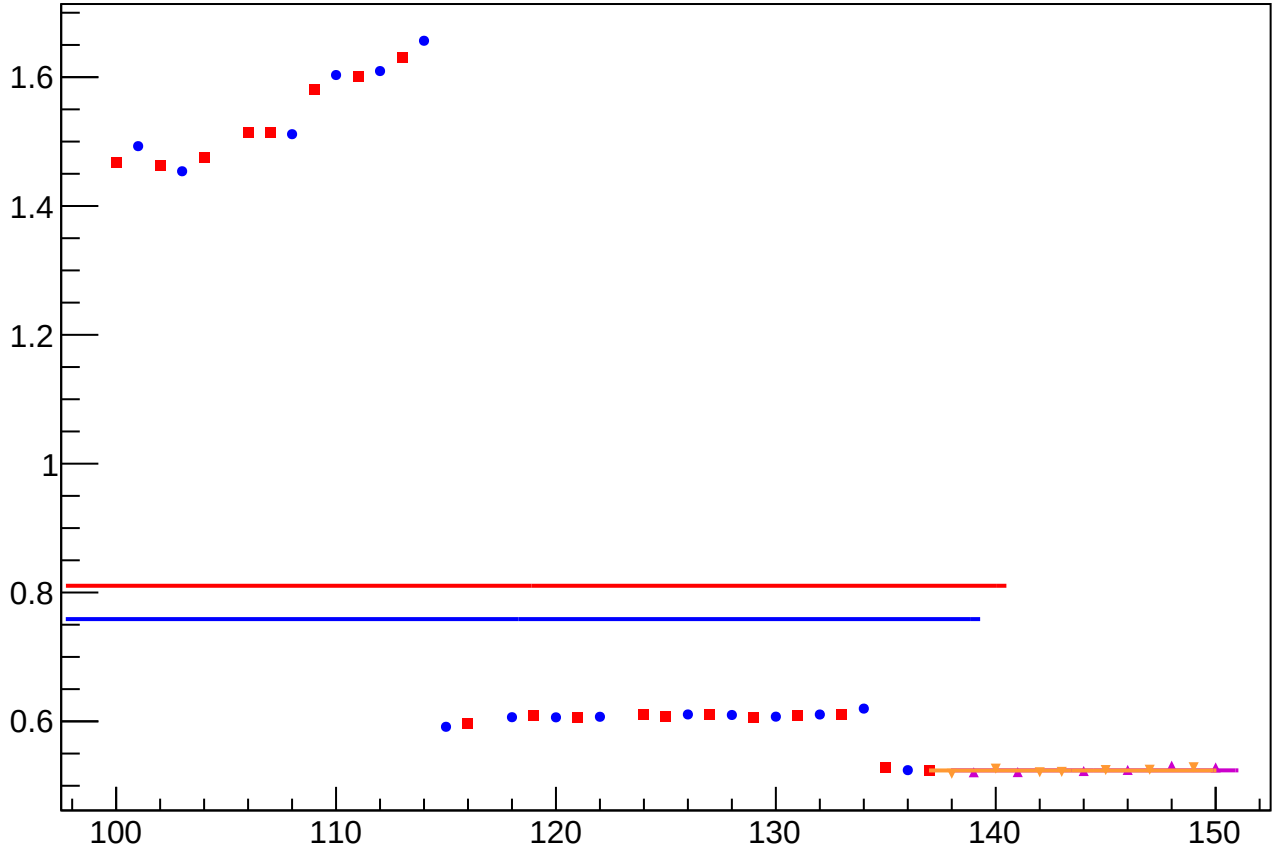
Right: 0.022+/-0.000 $\chi^2$/NDF: 2481109.4/34

In: 0.021+/-0.000 $\chi^2$/NDF:1704636.1/21

Out: 0.021+/-0.000 $\chi^2$/NDF:1865732.1/25

All: 0.021+/-0.000 $\chi^2$/NDF: 3570429.2/47

# yield_bpm4aY_mean vs Slug, Sign Corrected




Right In: 0.759+/-0.000 $\chi^2$/NDF: 4304169889.2/15

Left Out: 0.524+/-0.000 $\chi^2$/NDF:384205.4/6

Right Out: 0.810+/-0.000 $\chi^2$/NDF: 4769381416.8/18

Left In: 0.524+/-0.000 $\chi^2$/NDF:326084.2/5

Left: 0.524+/-0.000 $\chi^2$/NDF: 710691.5/12

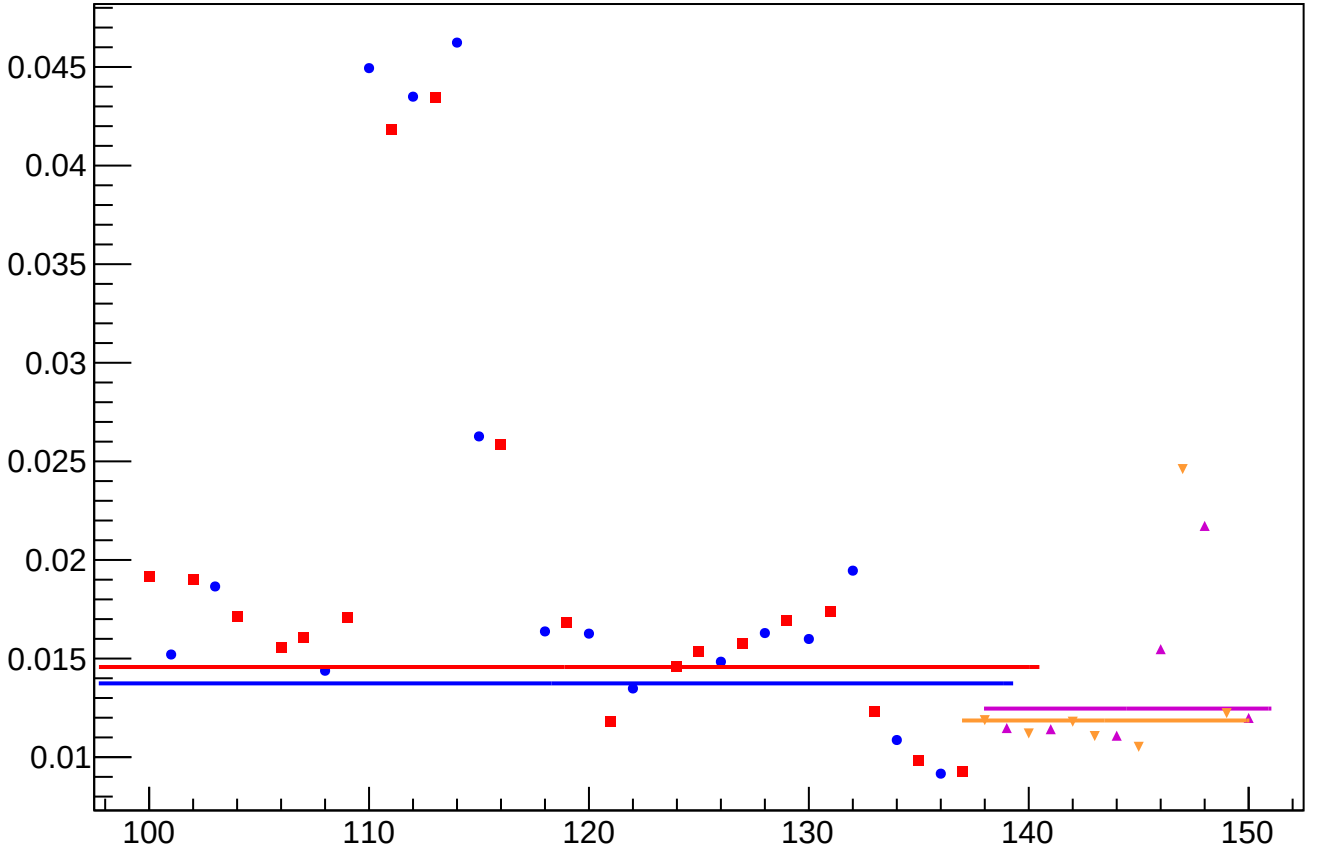
Right: 0.784+/-0.000 $\chi^2$/NDF: 9114268233.2/34

In: 0.642+/-0.000 $\chi^2$/NDF:5166260046.3/21

Out: 0.654+/-0.000 $\chi^2$/NDF:6084151831.3/25

All: 0.648+/-0.000 $\chi^2$/NDF: 11255061549.0/4

# yield_bpm4aY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1649769.2/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:468761.3/6

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1455054.4/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:402239.9/5

Left: 0.012+/-0.000 $\chi^2$/NDF: 883001.3/12

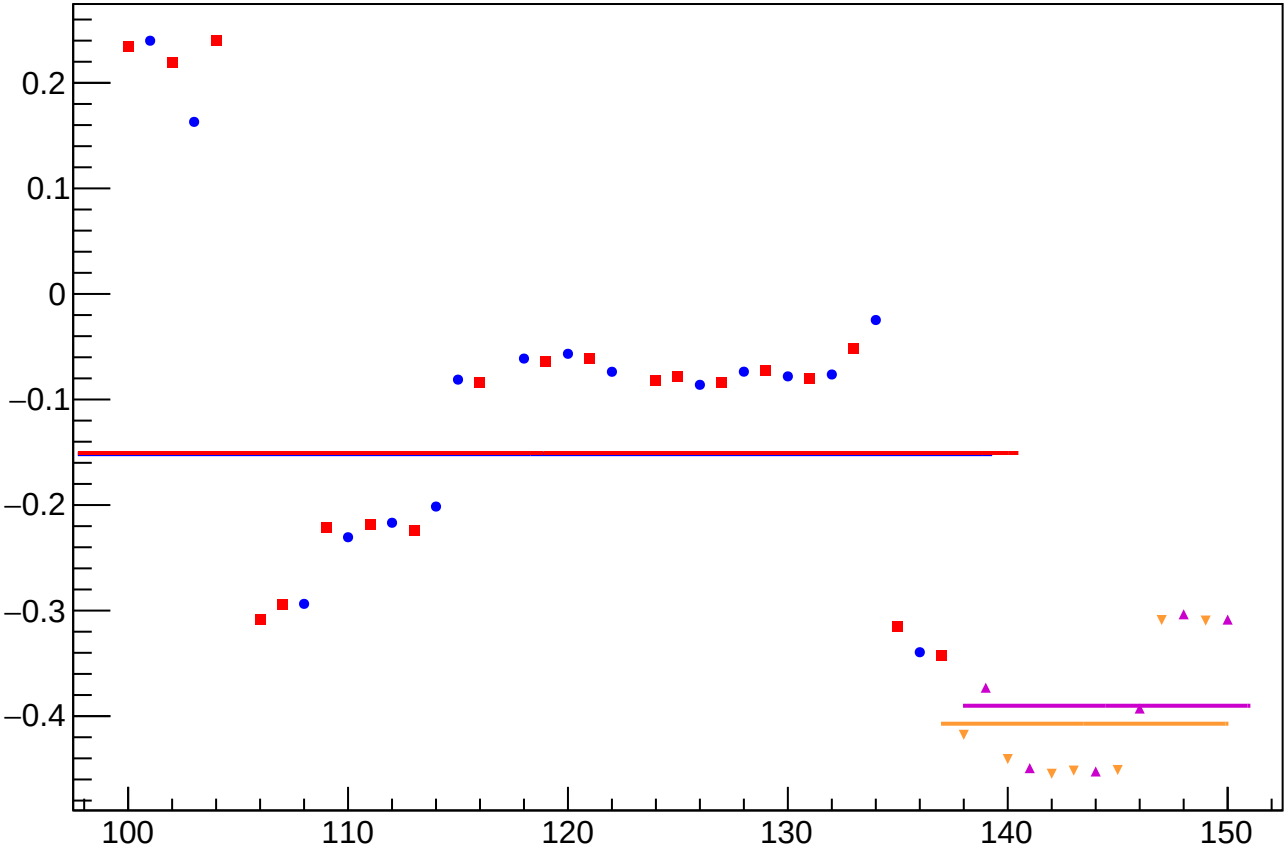
Right: 0.014+/-0.000 $\chi^2$/NDF: 3125814.5/34

In: 0.013+/-0.000 $\chi^2$/NDF:2103043.0/21

Out: 0.013+/-0.000 $\chi^2$/NDF:2159069.2/25

All: 0.013+/-0.000 $\chi^2$/NDF: 4262121.4/47

# yield_bpm4eX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 276791709.3/15

Left Out: -0.407+/-0.000 $\chi^2$/NDF:50724620.1/6

Right Out: -0.151+/-0.000 $\chi^2$/NDF: 199410234.4/18

Left In: -0.390+/-0.000 $\chi^2$/NDF:45334481.2/5

Left: -0.399+/-0.000 $\chi^2$/NDF: 97796879.9/12

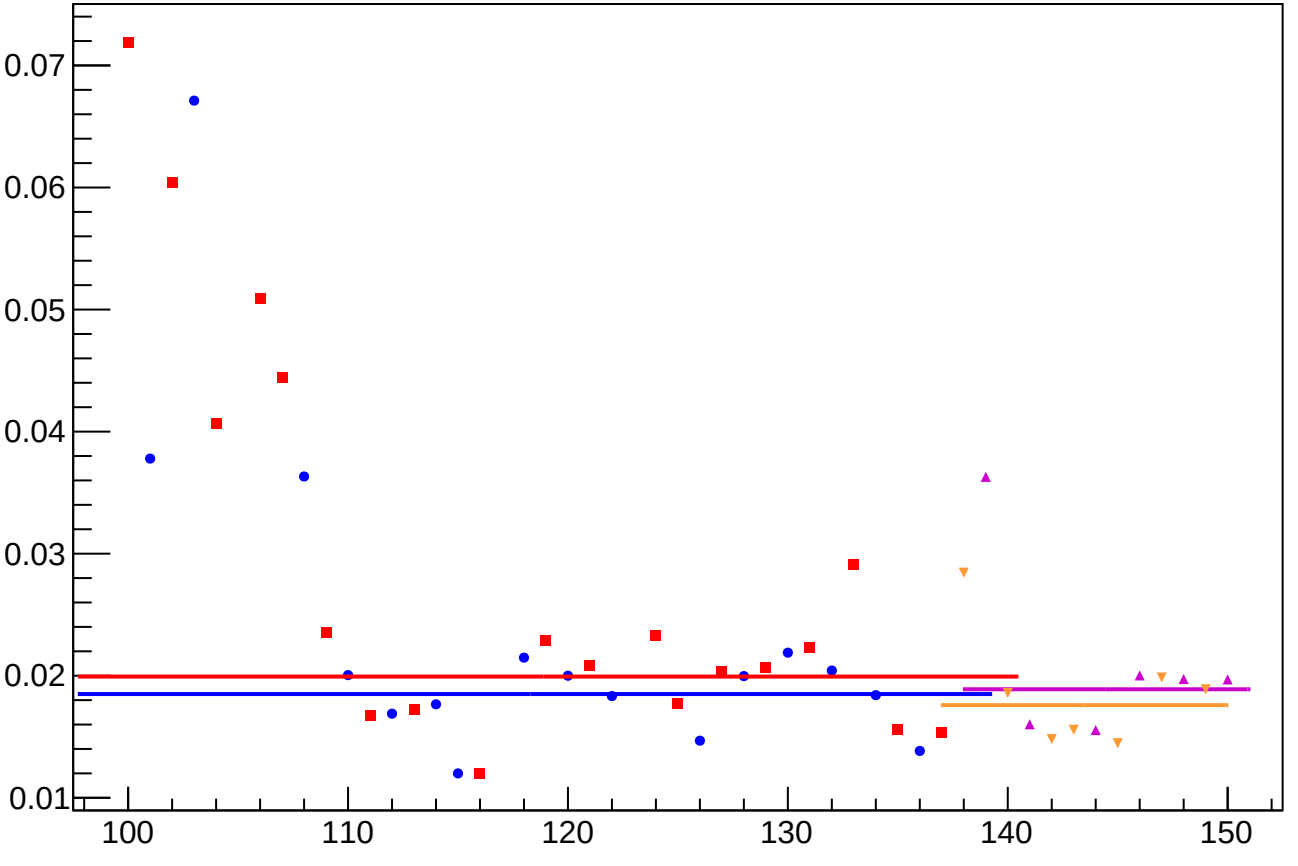
Right: -0.151+/-0.000 $\chi^2$/NDF: 476210345.8/34

In: -0.253+/-0.000 $\chi^2$/NDF:692496398.2/21

Out: -0.275+/-0.000 $\chi^2$/NDF:686422684.5/25

All: -0.264+/-0.000 $\chi^2$/NDF: 1385475317.1/4

# yield_bpm4eX_rms vs Slug, Sign Corrected




Right In: 0.018+/-0.000 $\chi^2$/NDF: 1372359.1/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:316912.1/6

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1547561.3/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:497501.8/5

Left: 0.018+/-0.000 $\chi^2$/NDF: 834692.3/12

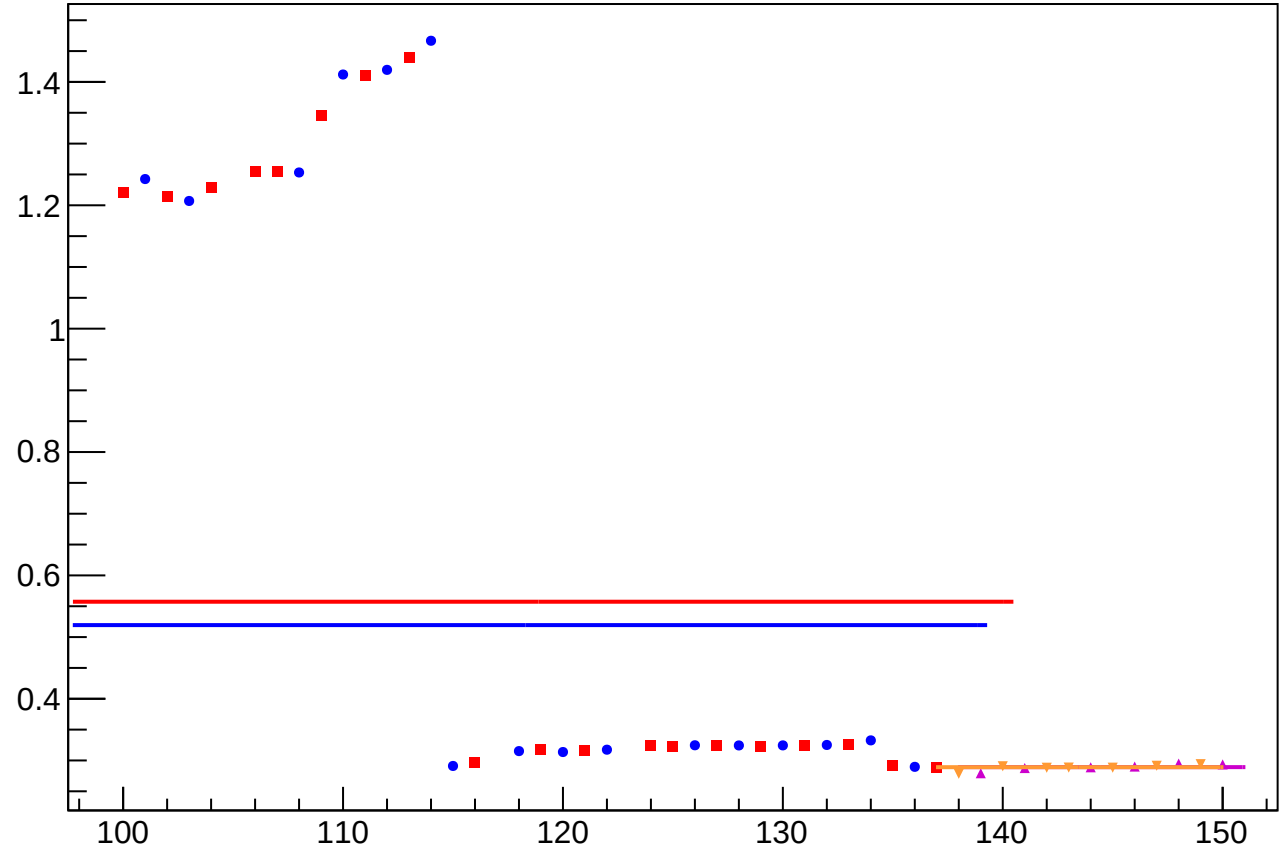
Right: 0.019+/-0.000 $\chi^2$/NDF: 2949710.8/34

In: 0.019+/-0.000 $\chi^2$/NDF:1871859.8/21

Out: 0.019+/-0.000 $\chi^2$/NDF:1937116.8/25

All: 0.019+/-0.000 $\chi^2$/NDF: 3809461.4/47

# yield_bpm4eY_mean vs Slug, Sign Corrected




Right In: 0.519+/-0.000 $\chi^2$/NDF: 6319132275.3/15

Left Out: 0.289+/-0.000 $\chi^2$/NDF:714501.2/6

Right Out: 0.557+/-0.000 $\chi^2$/NDF: 6746144835.5/18

Left In: 0.289+/-0.000 $\chi^2$/NDF:835374.2/5

Left: 0.289+/-0.000 $\chi^2$/NDF: 1550081.5/12

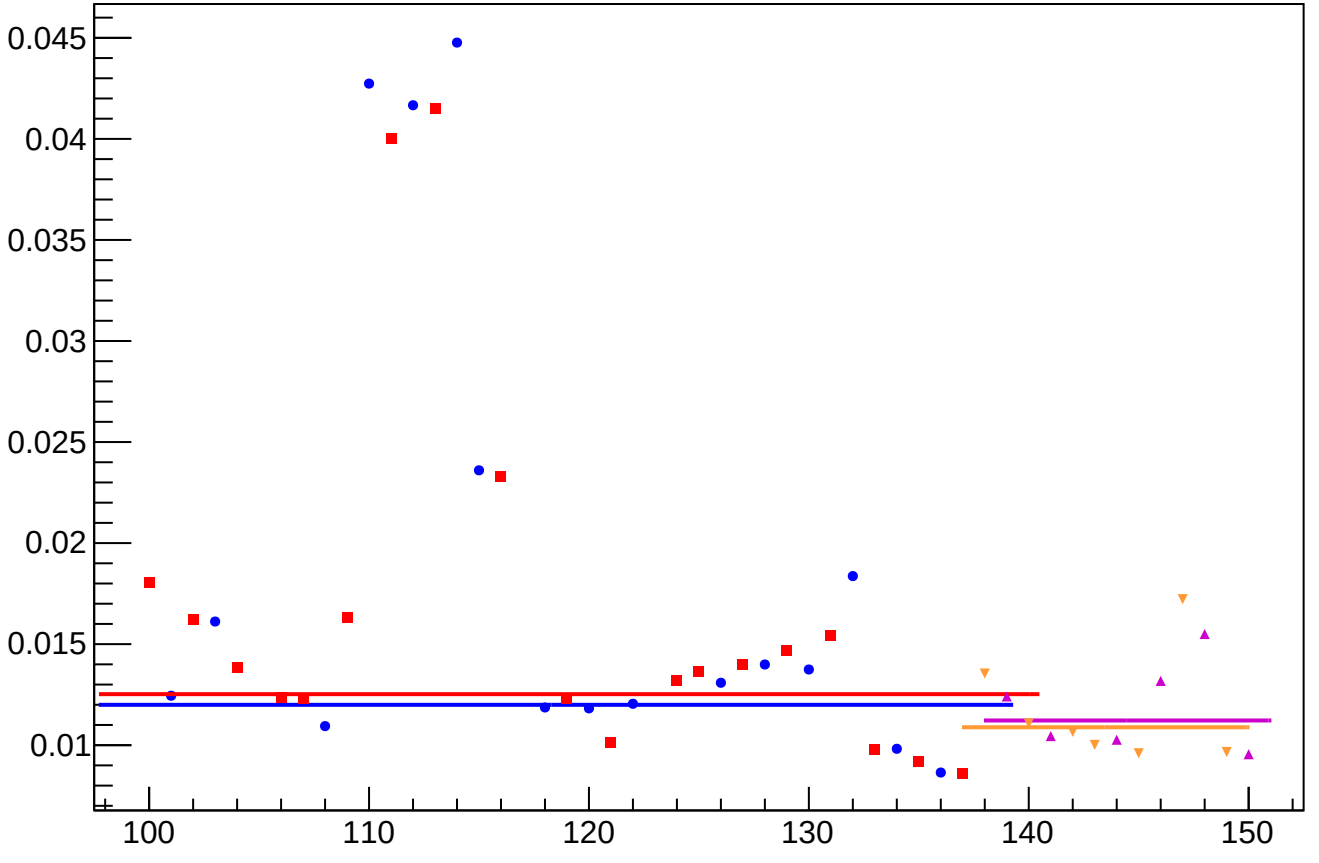
Right: 0.538+/-0.000 $\chi^2$/NDF: 13094140546.7/34

In: 0.408+/-0.000 $\chi^2$/NDF:7381970472.9/21

Out: 0.418+/-0.000 $\chi^2$/NDF:8200874648.0/25

All: 0.413+/-0.000 $\chi^2$/NDF: 15587210622.0/4

# yield_bpm4eY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1491608.2/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:341746.7/6

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1434210.5/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:250307.4/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 596598.1/12

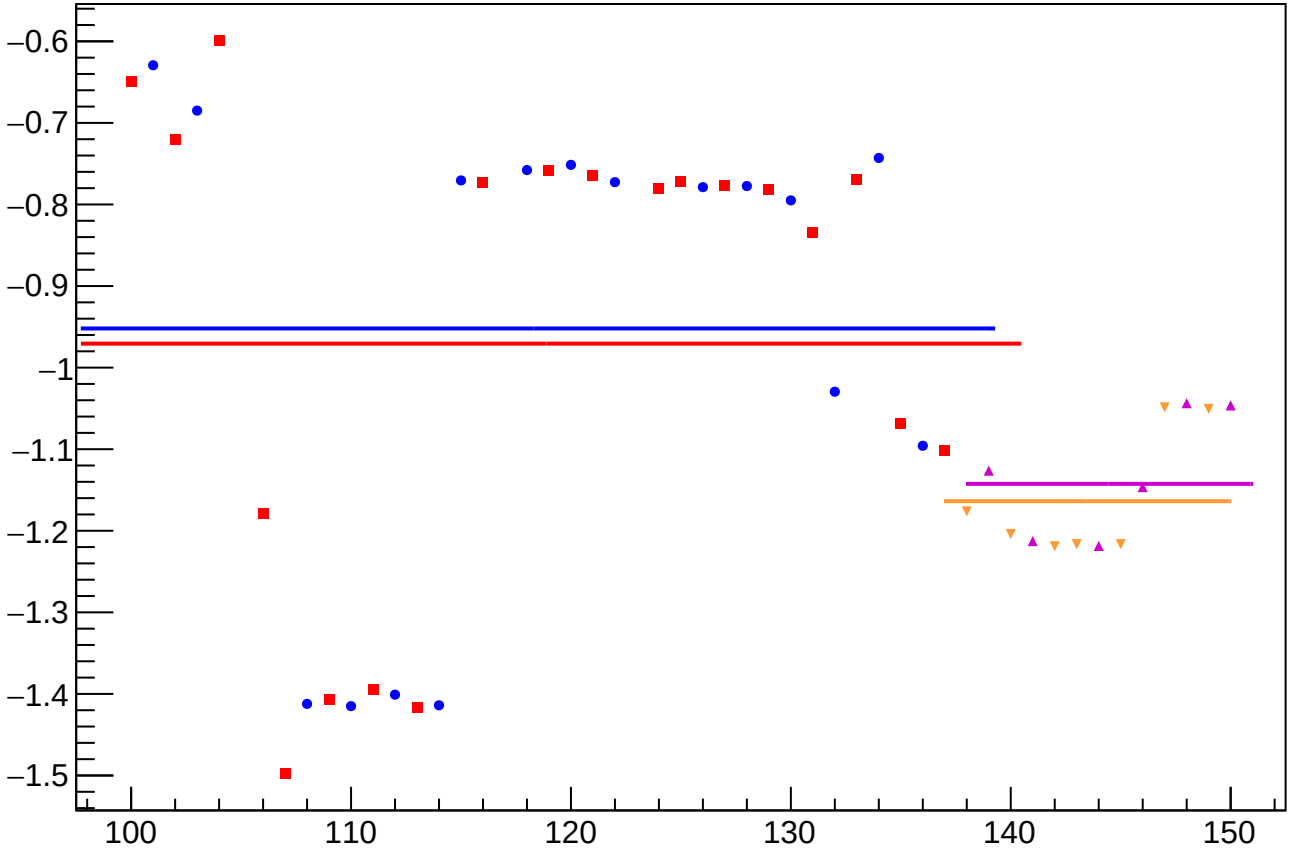
Right: 0.012+/-0.000 $\chi^2$/NDF: 2937026.7/34

In: 0.012+/-0.000 $\chi^2$/NDF:1765949.5/21

Out: 0.012+/-0.000 $\chi^2$/NDF:1884446.7/25

All: 0.012+/-0.000 $\chi^2$/NDF: 3650635.9/47

# yield_bpm4acX_mean vs Slug, Sign Corrected




Right In: -0.952+/-0.000 $\chi^2$/NDF: 699468857.6/15

Left Out: -1.164+/-0.000 $\chi^2$/NDF:66202087.5/6

Right Out: -0.971+/-0.000 $\chi^2$/NDF: 714505458.0/18

Left In: -1.142+/-0.000 $\chi^2$/NDF:59117119.4/5

Left: -1.154+/-0.000 $\chi^2$/NDF: 127868915.2/12

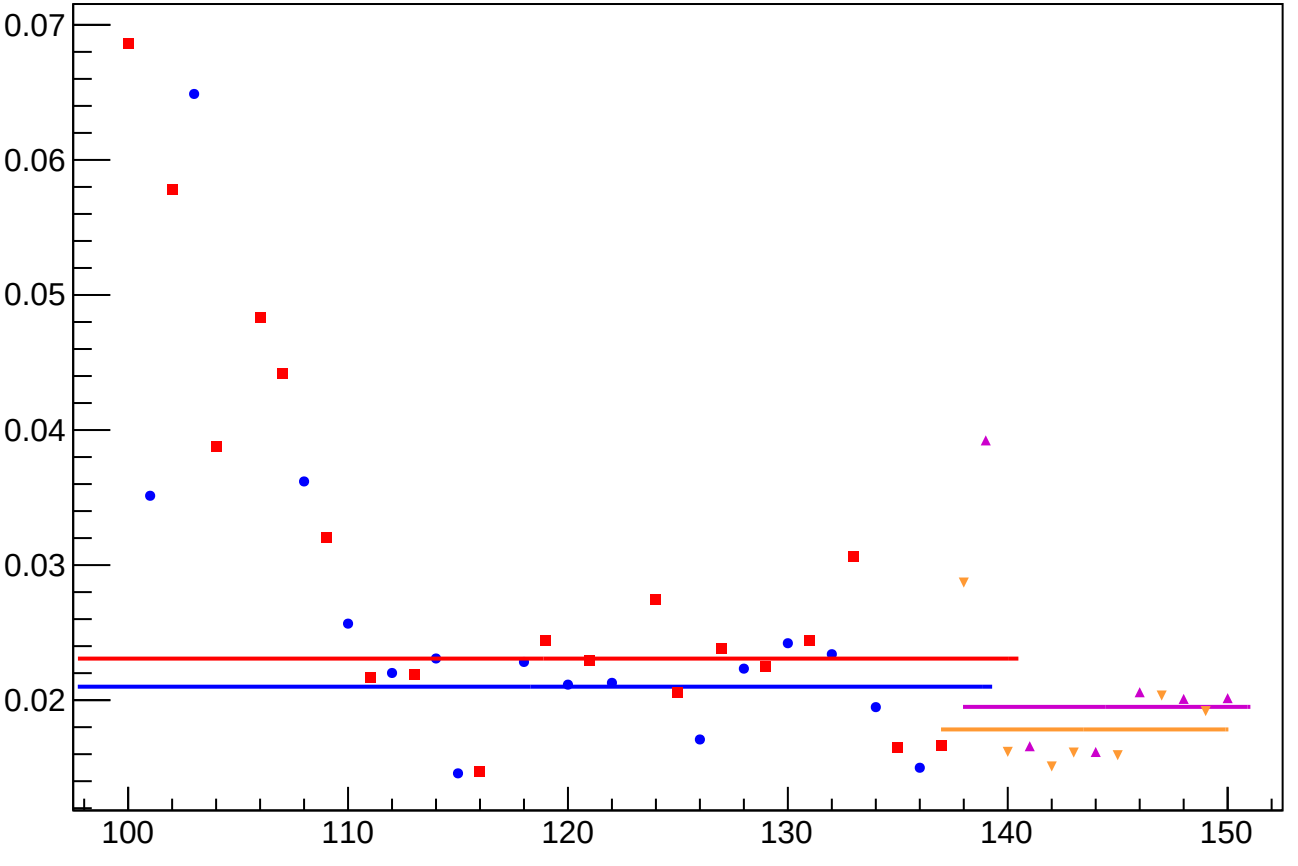
Right: -0.961+/-0.000 $\chi^2$/NDF: 1415910427.1/34

In: -1.040+/-0.000 $\chi^2$/NDF:962806077.9/21

Out: -1.075+/-0.000 $\chi^2$/NDF:991145492.5/25

All: -1.058+/-0.000 $\chi^2$/NDF: 1967561563.3/4

# yield_bpm4acX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1166992.9/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:274550.3/6

Right Out: 0.023+/-0.000 $\chi^2$/NDF: 1281311.4/18

Left In: 0.020+/-0.000 $\chi^2$/NDF:525669.1/5

Left: 0.019+/-0.000 $\chi^2$/NDF: 831817.8/12

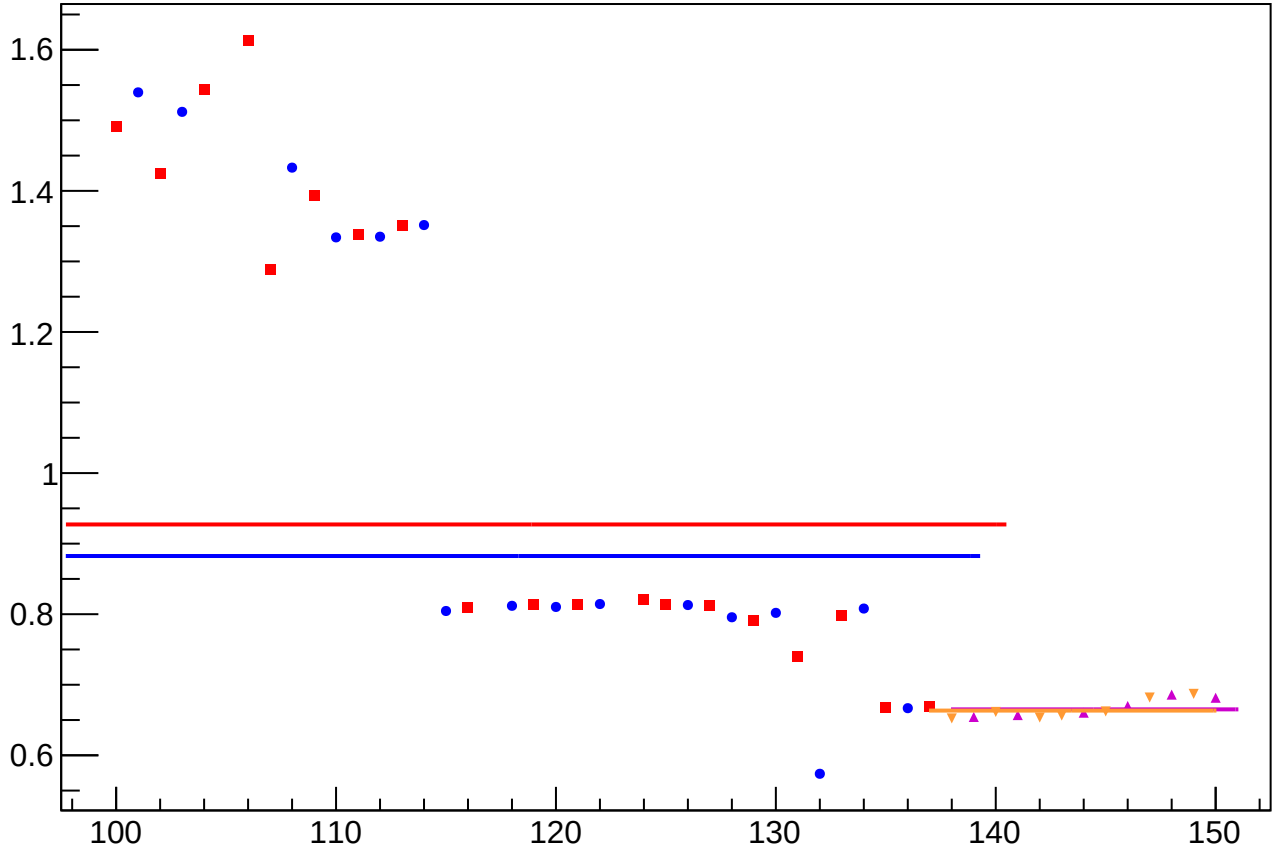
Right: 0.022+/-0.000 $\chi^2$/NDF: 2496865.9/34

In: 0.020+/-0.000 $\chi^2$/NDF:1717804.6/21

Out: 0.020+/-0.000 $\chi^2$/NDF:1866320.7/25

All: 0.020+/-0.000 $\chi^2$/NDF: 3584213.2/47

# yield_bpm4acY_mean vs Slug, Sign Corrected




Right In: 0.882+/-0.000 $\chi^2$/NDF: 2784156746.4/15

Left Out: 0.663+/-0.000 $\chi^2$/NDF:4827800.3/6

Right Out: 0.927+/-0.000 $\chi^2$/NDF: 2762998321.3/18

Left In: 0.665+/-0.000 $\chi^2$/NDF:3750860.7/5

Left: 0.664+/-0.000 $\chi^2$/NDF: 8626748.0/12

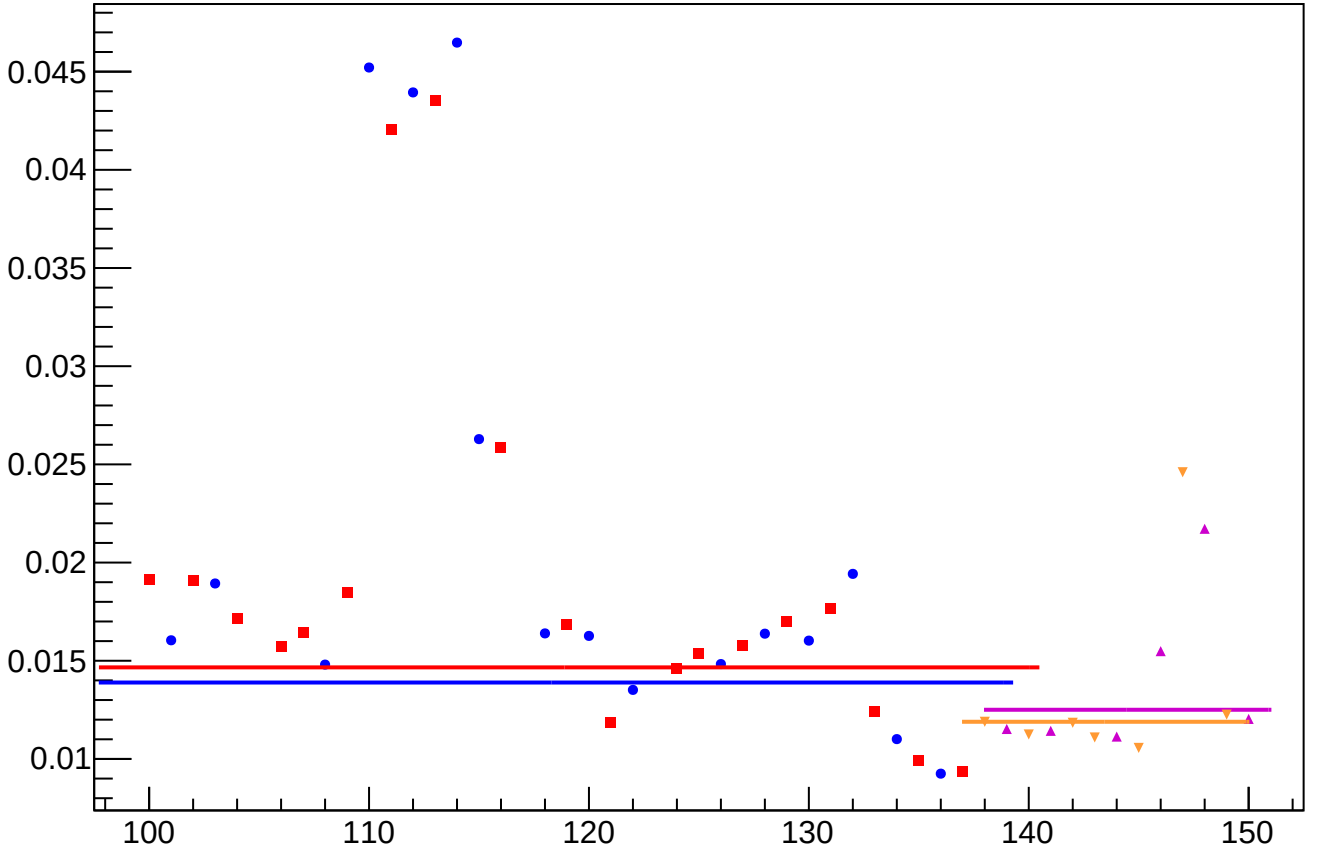
Right: 0.904+/-0.000 $\chi^2$/NDF: 5576917007.9/34

In: 0.774+/-0.000 $\chi^2$/NDF:3514550866.9/21

Out: 0.783+/-0.000 $\chi^2$/NDF:3867151269.9/25

All: 0.778+/-0.000 $\chi^2$/NDF: 7384340863.9/47

# yield_bpm4acY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1646691.8/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:465240.5/6

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1467025.6/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:397851.2/5

Left: 0.012+/-0.000 $\chi^2$/NDF: 875327.7/12

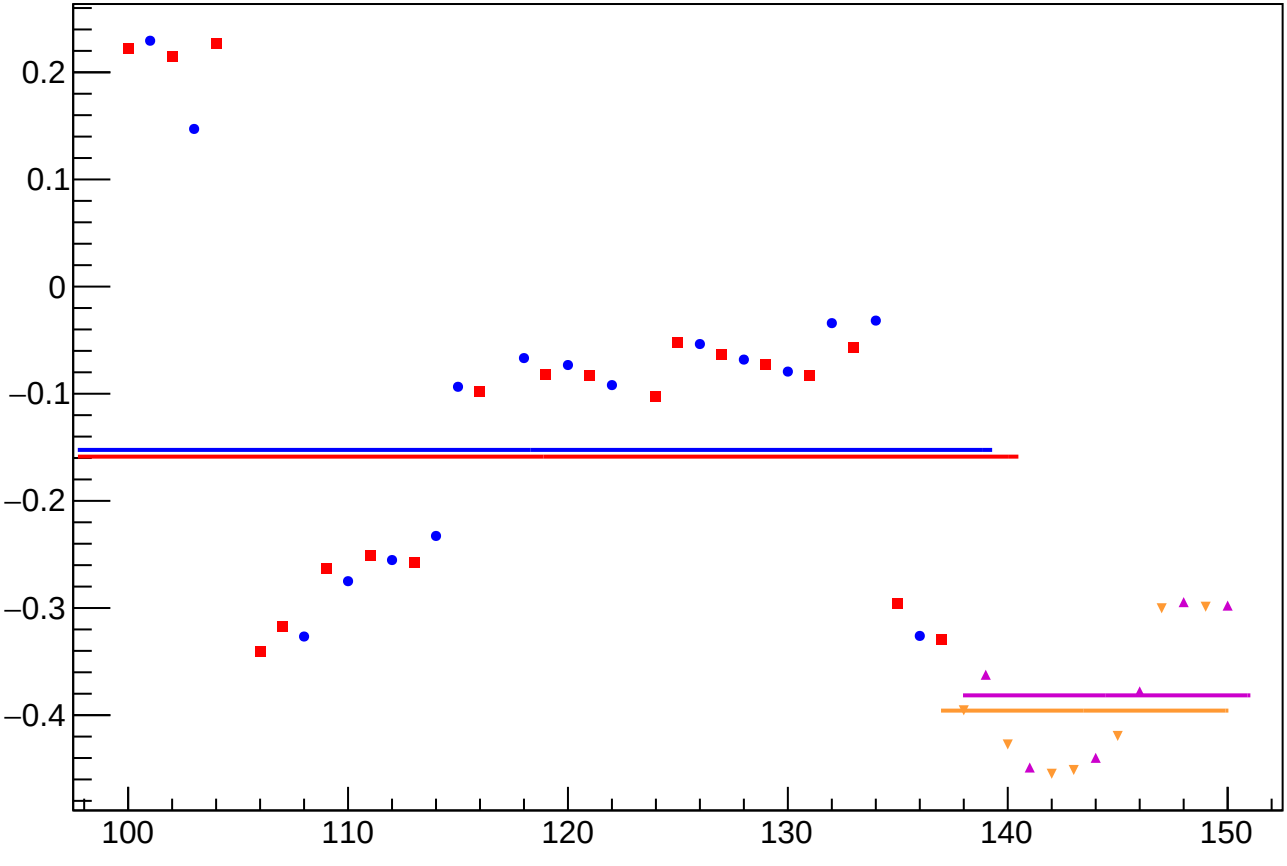
Right: 0.014+/-0.000 $\chi^2$/NDF: 3131409.7/34

In: 0.013+/-0.000 $\chi^2$/NDF:2103748.6/21

Out: 0.013+/-0.000 $\chi^2$/NDF:2174664.7/25

All: 0.013+/-0.000 $\chi^2$/NDF: 4278571.9/47

# yield_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 274261842.6/15

Left Out: -0.396+/-0.000 $\chi^2$/NDF:48997529.3/6

Right Out: -0.159+/-0.000 $\chi^2$/NDF: 195614120.0/18

Left In: -0.382+/-0.000 $\chi^2$/NDF:46571706.4/5

Left: -0.389+/-0.000 $\chi^2$/NDF: 96776780.4/12

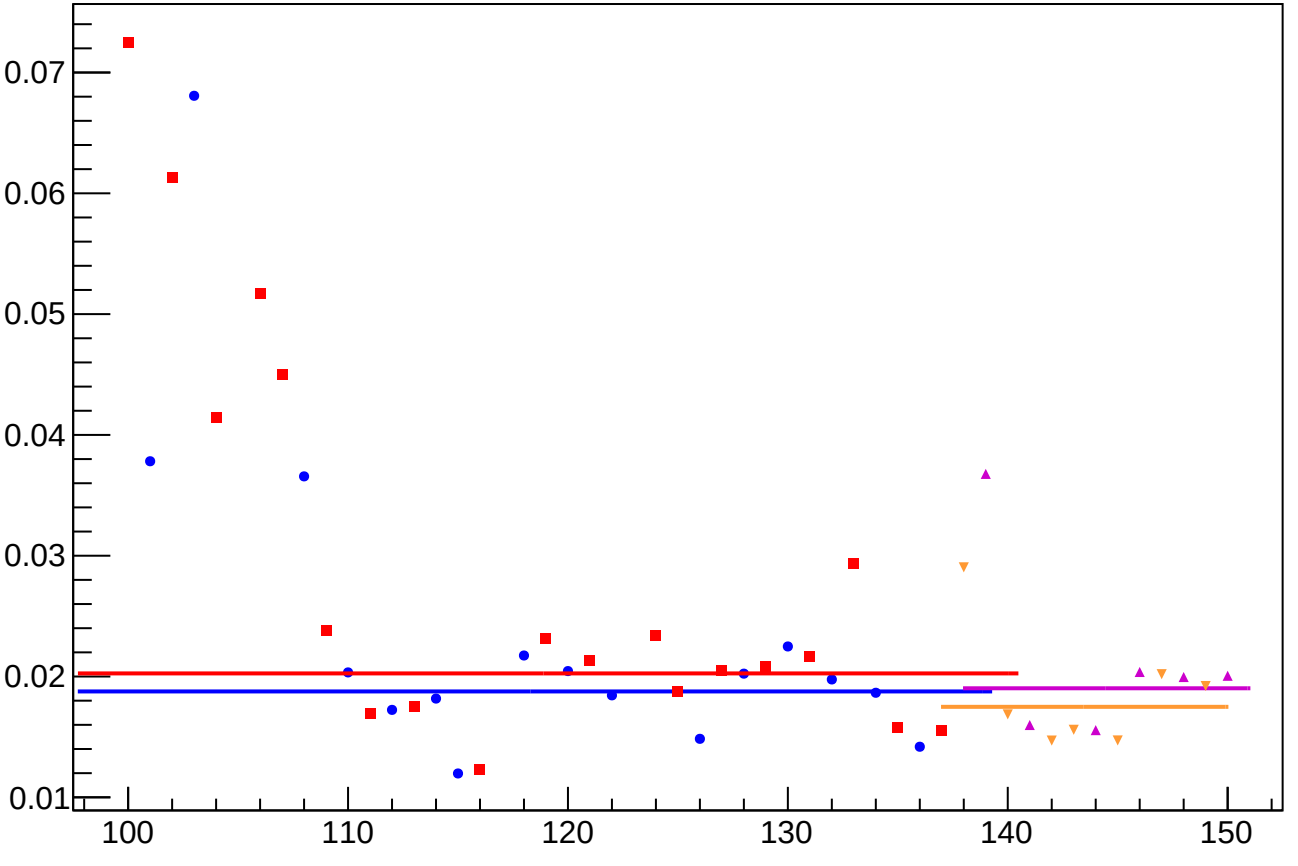
Right: -0.155+/-0.000 $\chi^2$/NDF: 470153865.7/34

In: -0.250+/-0.000 $\chi^2$/NDF:655659362.1/21

Out: -0.275+/-0.000 $\chi^2$/NDF:611722819.3/25

All: -0.263+/-0.000 $\chi^2$/NDF: 1275908554.4/4

# yield_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 0.019+/-0.000 $\chi^2$/NDF: 1349412.3/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:331354.5/6

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1529624.9/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:514923.4/5

Left: 0.018+/-0.000 $\chi^2$/NDF: 874384.9/12

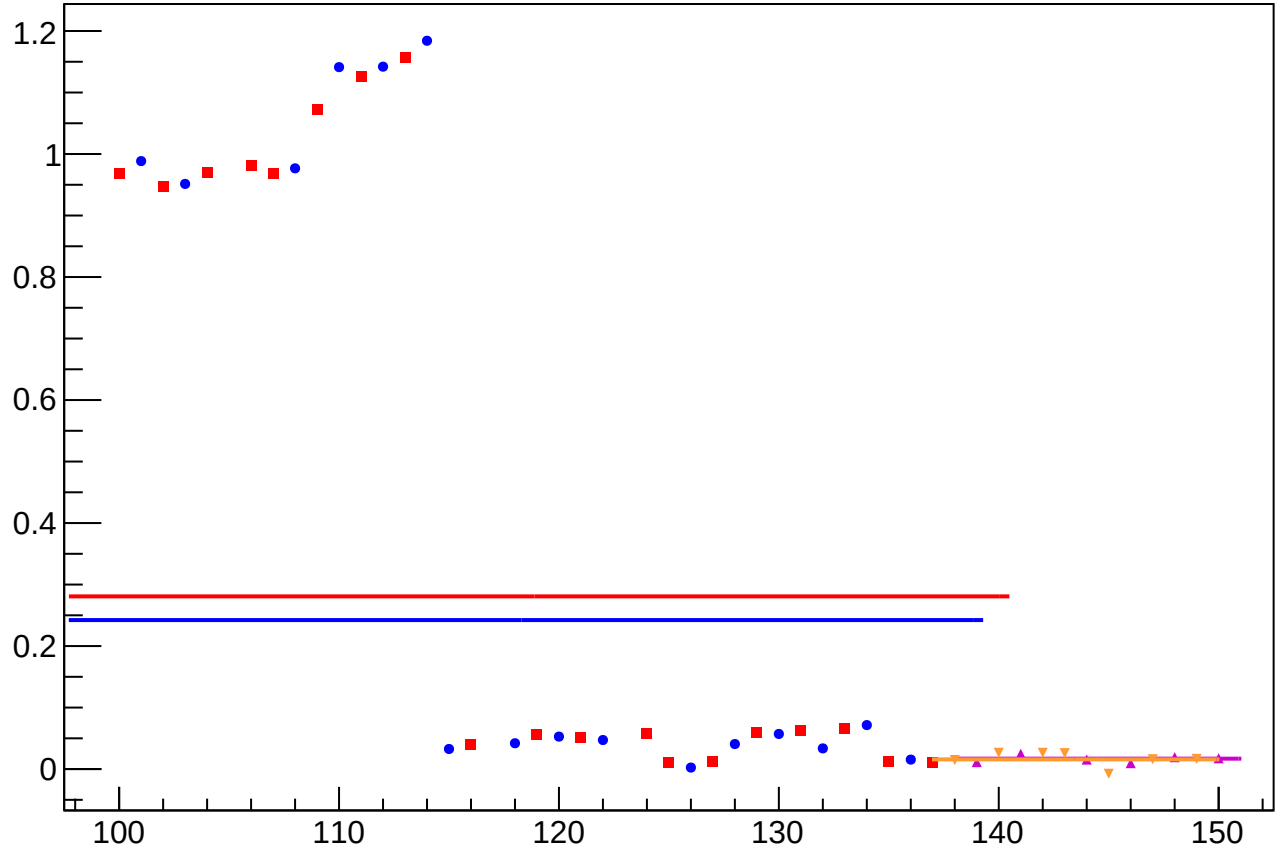
Right: 0.019+/-0.000 $\chi^2$/NDF: 2910384.5/34

In: 0.019+/-0.000 $\chi^2$/NDF:1865207.4/21

Out: 0.019+/-0.000 $\chi^2$/NDF:1960965.7/25

All: 0.019+/-0.000 $\chi^2$/NDF: 3826182.3/47

# yield_bpm4ecY_mean vs Slug, Sign Corrected




Right In: 0.242+/-0.000 $\chi^2$/NDF: 6507444426.7/15

Left Out: 0.016+/-0.000 $\chi^2$/NDF:6780480.4/6

Right Out: 0.281+/-0.000 $\chi^2$/NDF: 6757631639.3/18

Left In: 0.017+/-0.000 $\chi^2$/NDF:981582.2/5

Left: 0.016+/-0.000 $\chi^2$/NDF: 7791546.0/12

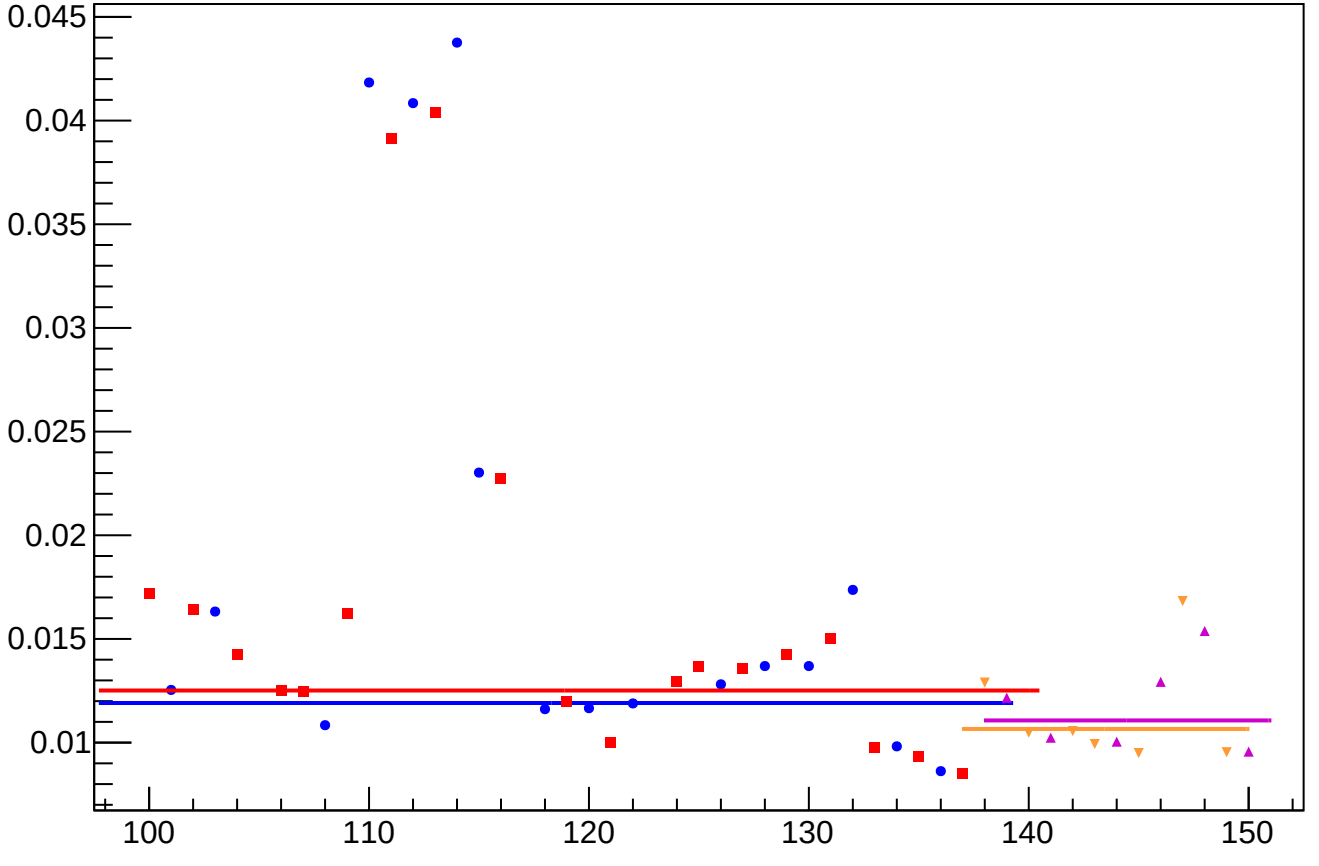
Right: 0.261+/-0.000 $\chi^2$/NDF: 13295182324.5/34

In: 0.133+/-0.000 $\chi^2$/NDF:7549061711.4/21

Out: 0.141+/-0.000 $\chi^2$/NDF:8216205574.1/25

All: 0.137+/-0.000 $\chi^2$/NDF: 15768157320.7/4

# yield_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1459428.8/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:315348.1/6

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1392455.1/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:245273.6/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 567668.5/12

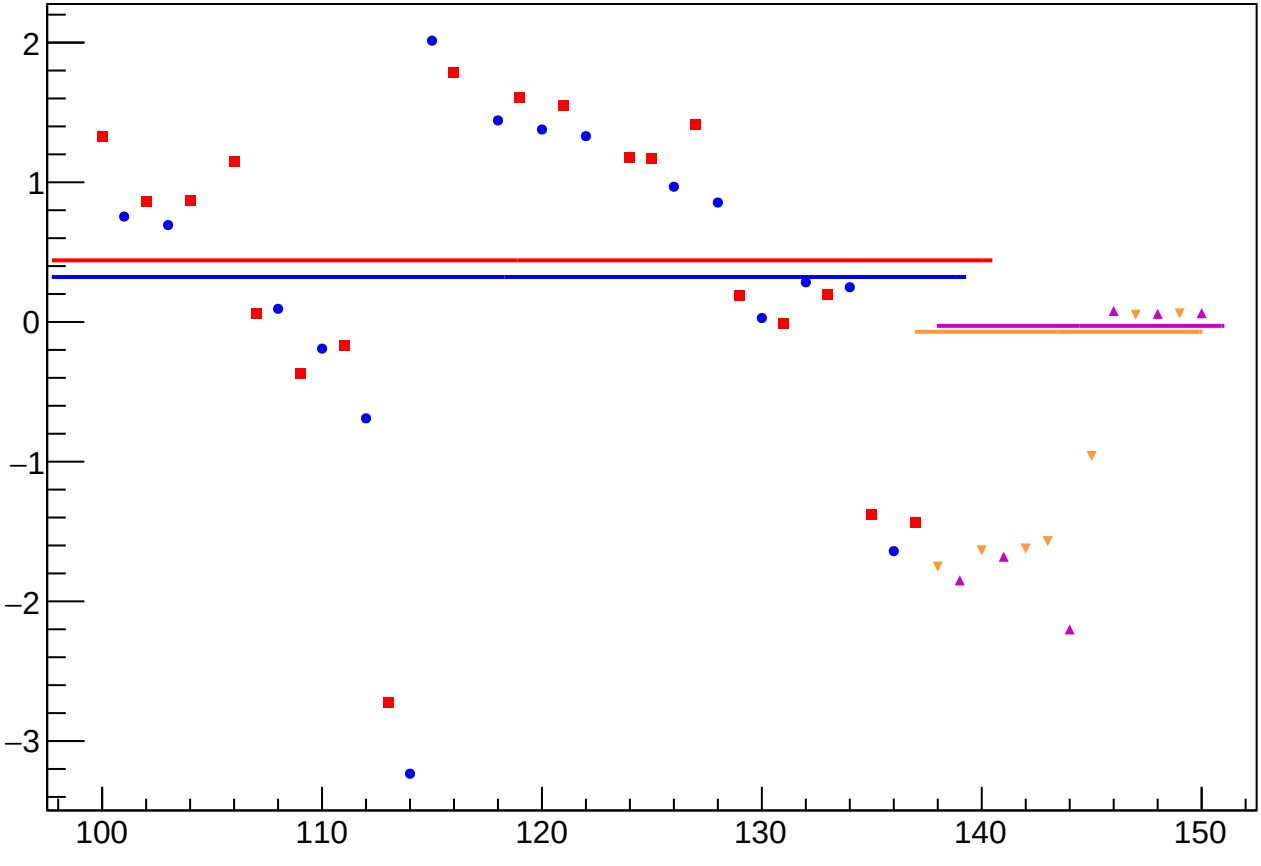
Right: 0.012+/-0.000 $\chi^2$/NDF: 2866610.3/34

In: 0.012+/-0.000 $\chi^2$/NDF:1733671.8/21

Out: 0.012+/-0.000 $\chi^2$/NDF:1849863.2/25

All: 0.012+/-0.000 $\chi^2$/NDF: 3583627.7/47

# yield_bpm1X_mean vs Slug, Sign Corrected




Right In: 0.322+/-0.000 $\chi^2$/NDF: 1664983742.5/15

Left Out: -0.070+/-0.000 $\chi^2$/NDF:1088852285.3/6

Right Out: 0.441+/-0.000 $\chi^2$/NDF: 1796703168.4/18

Left In: -0.028+/-0.000 $\chi^2$/NDF:1637716657.3/5

Left: -0.046+/-0.000 $\chi^2$/NDF: 2733203163.9/12

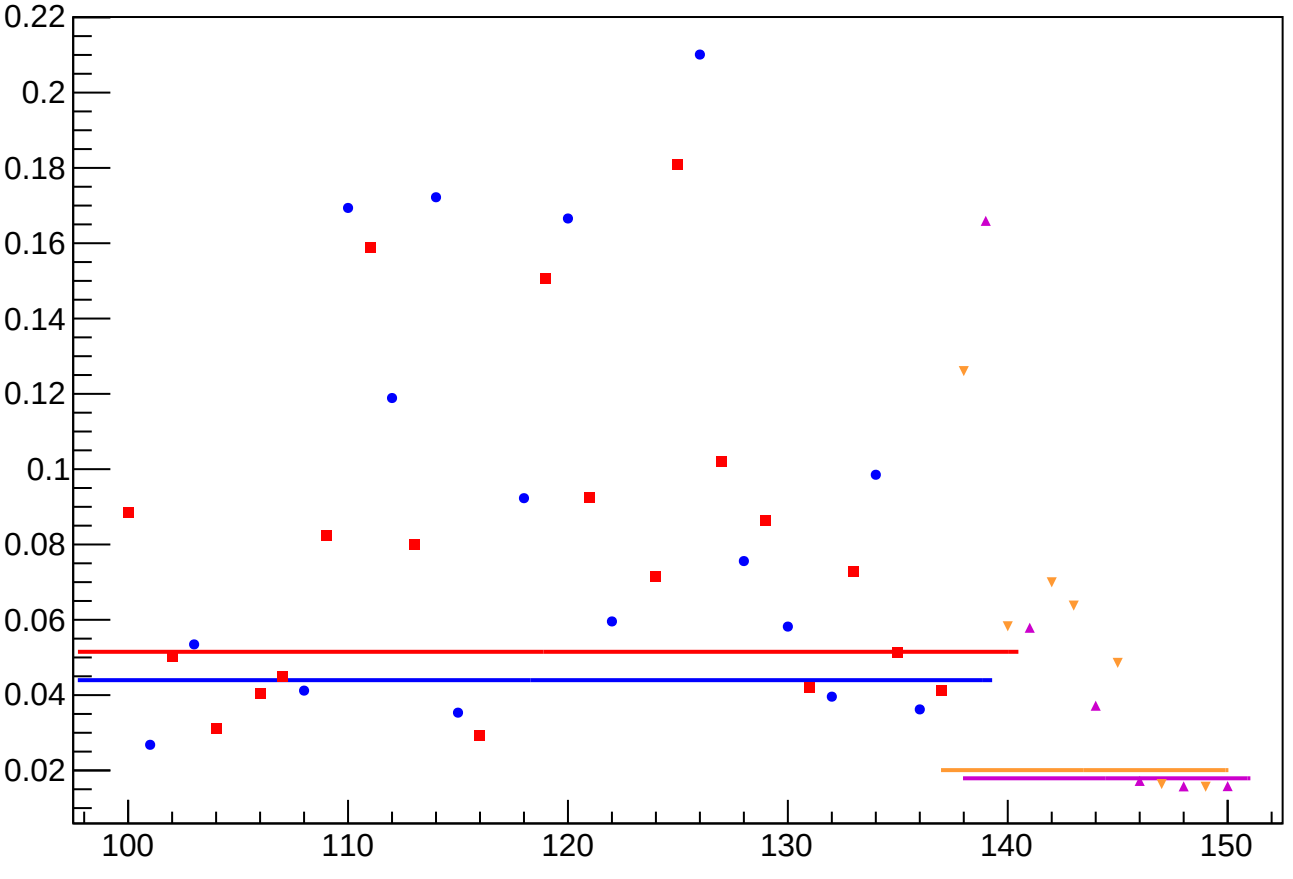
Right: 0.376+/-0.000 $\chi^2$/NDF: 3474475474.1/34

In: 0.037+/-0.000 $\chi^2$/NDF:3500421958.4/21

Out: 0.036+/-0.000 $\chi^2$/NDF:3226998804.1/25

All: 0.036+/-0.000 $\chi^2$/NDF: 6727429927.1/47

# yield_bpm1X_rms vs Slug, Sign Corrected




Right In: 0.044+/-0.000 $\chi^2$/NDF: 2787474.8/15

Left Out: 0.020+/-0.000 $\chi^2$/NDF:2563594.5/6

Right Out: 0.052+/-0.000 $\chi^2$/NDF: 2367478.8/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:1917348.9/5

Left: 0.019+/-0.000 $\chi^2$/NDF: 4515413.4/12

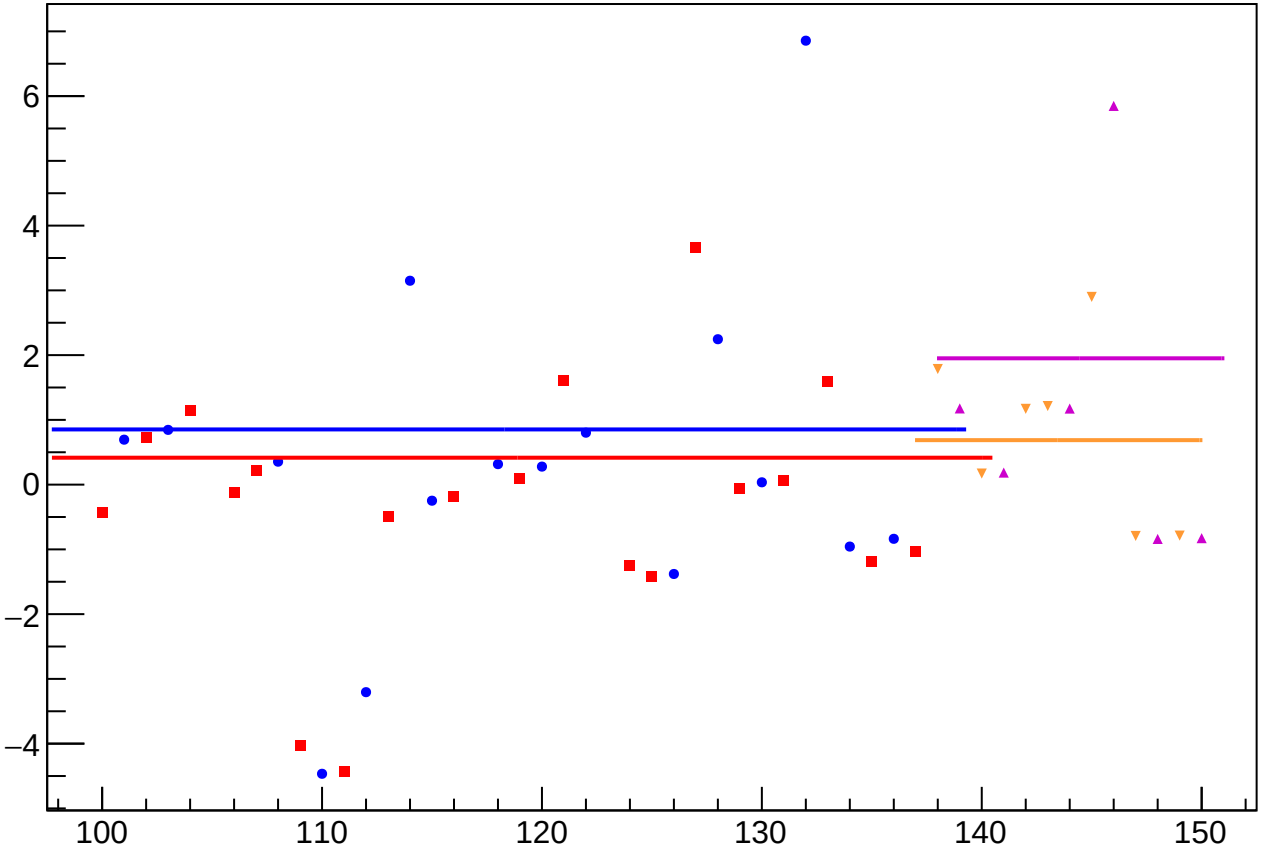
Right: 0.047+/-0.000 $\chi^2$/NDF: 5257025.7/34

In: 0.023+/-0.000 $\chi^2$/NDF:6900895.7/21

Out: 0.027+/-0.000 $\chi^2$/NDF:7507583.1/25

All: 0.024+/-0.000 $\chi^2$/NDF: 14543737.9/47

# yield_bpm1Y_mean vs Slug, Sign Corrected




Right In: 0.852+/-0.000 $\chi^2$/NDF: 11576037687.7/15

Left Out: 0.687+/-0.000 $\chi^2$/NDF:27763094834.4/6

Right Out: 0.416+/-0.000 $\chi^2$/NDF: 5121892038.7/18

Left In: 1.951+/-0.000 $\chi^2$/NDF:113071547959.5/5

Left: 1.376+/-0.000 $\chi^2$/NDF: 148682091632.8/12

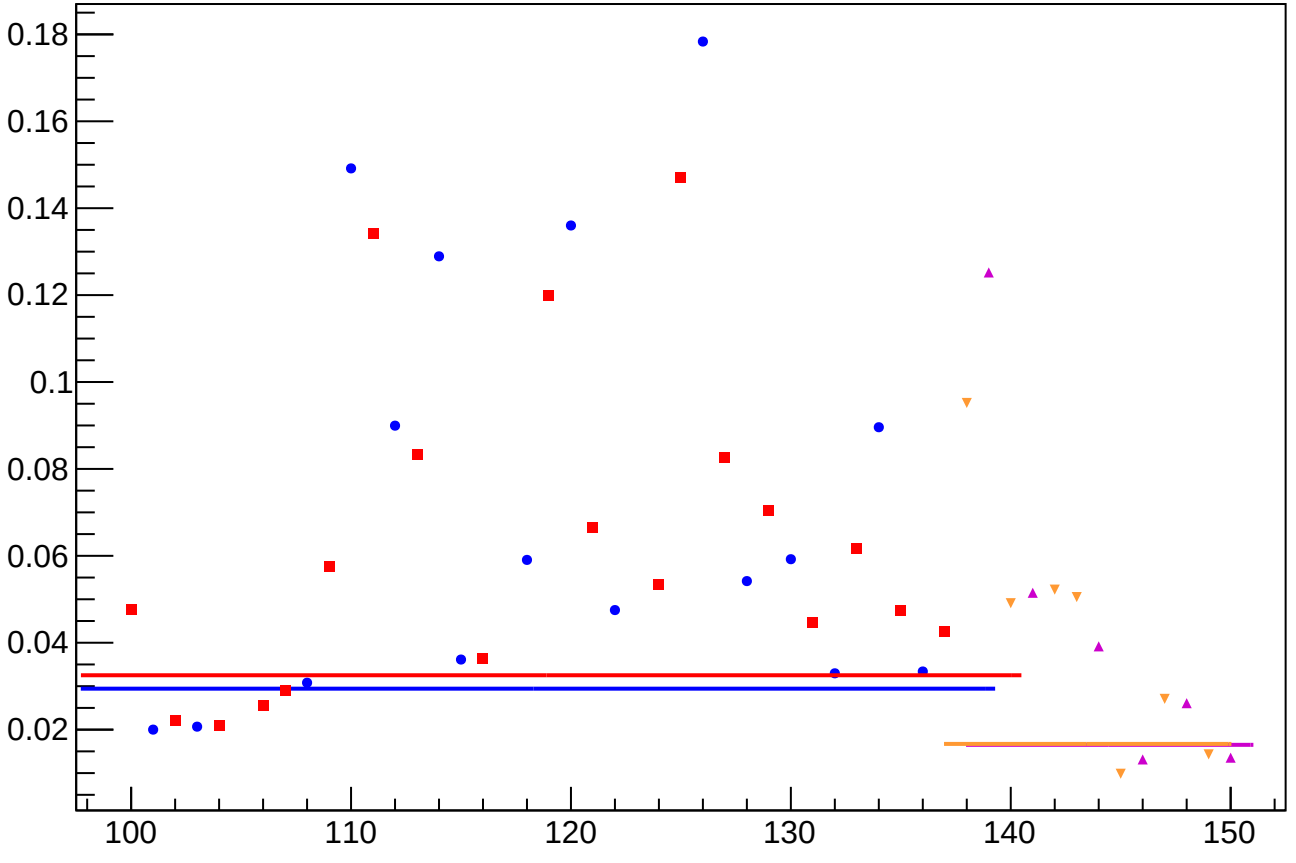
Right: 0.644+/-0.000 $\chi^2$/NDF: 17086077865.4/34

In: 1.640+/-0.000 $\chi^2$/NDF:128332571564.9/21

Out: 0.605+/-0.000 $\chi^2$/NDF:33085011135.4/25

All: 1.162+/-0.000 $\chi^2$/NDF: 168867818095.1

# yield_bpm1Y_rms vs Slug, Sign Corrected




Right In: 0.029+/-0.000 $\chi^2$/NDF: 3192424.8/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:2538860.5/6

Right Out: 0.033+/-0.000 $\chi^2$/NDF: 3315430.7/18

Left In: 0.017+/-0.000 $\chi^2$/NDF:2287174.6/5

Left: 0.017+/-0.000 $\chi^2$/NDF: 4826478.9/12

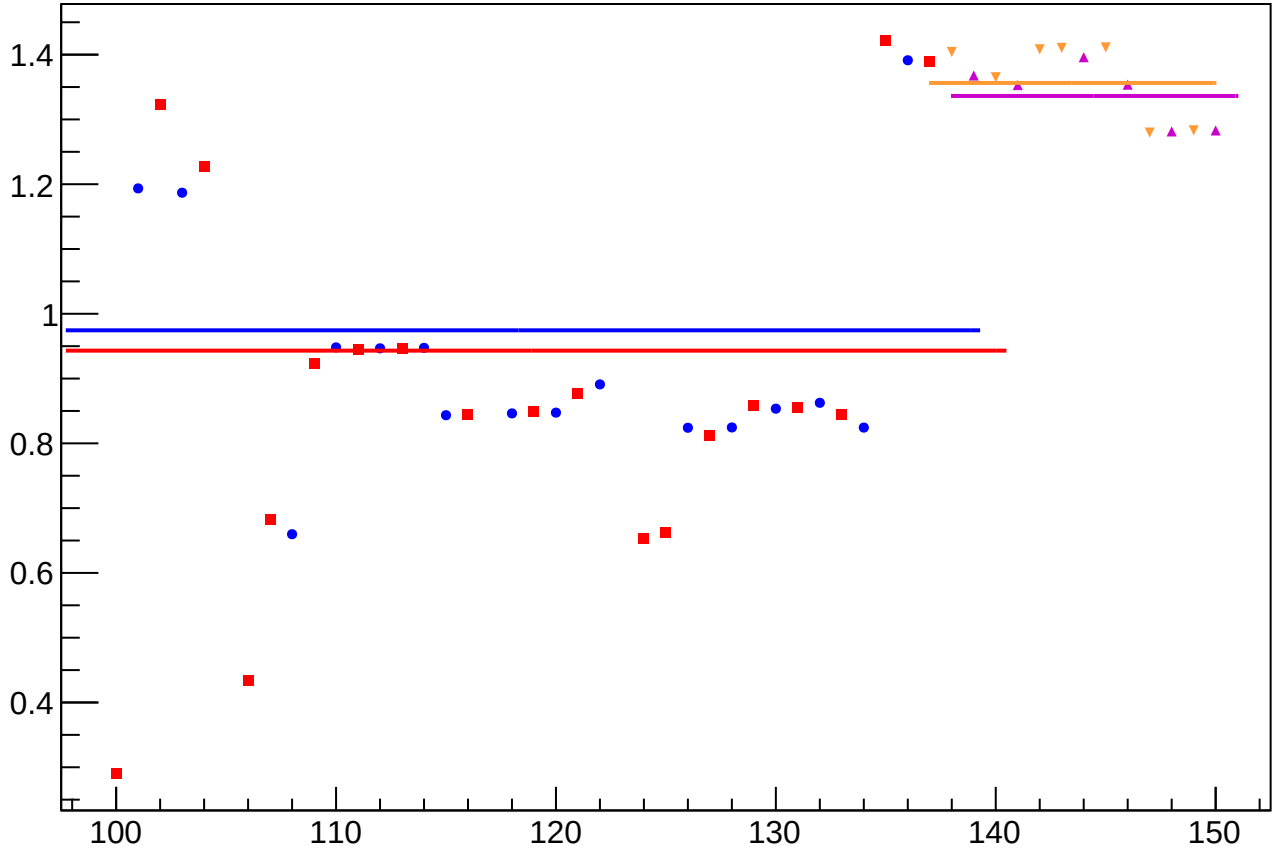
Right: 0.031+/-0.000 $\chi^2$/NDF: 6546669.2/34

In: 0.020+/-0.000 $\chi^2$/NDF:6500338.3/21

Out: 0.021+/-0.000 $\chi^2$/NDF:7213786.0/25

All: 0.021+/-0.000 $\chi^2$/NDF: 13738797.1/47

# yield_bpm11X_mean vs Slug, Sign Corrected




Right In: 0.974+/-0.000 $\chi^2$/NDF: 1458735246.5/15

Left Out: 1.356+/-0.000 $\chi^2$/NDF:102161495.1/6

Right Out: 0.943+/-0.000 $\chi^2$/NDF: 1670579900.3/18

Left In: 1.336+/-0.000 $\chi^2$/NDF:56805977.5/5

Left: 1.347+/-0.000 $\chi^2$/NDF: 164869577.4/12

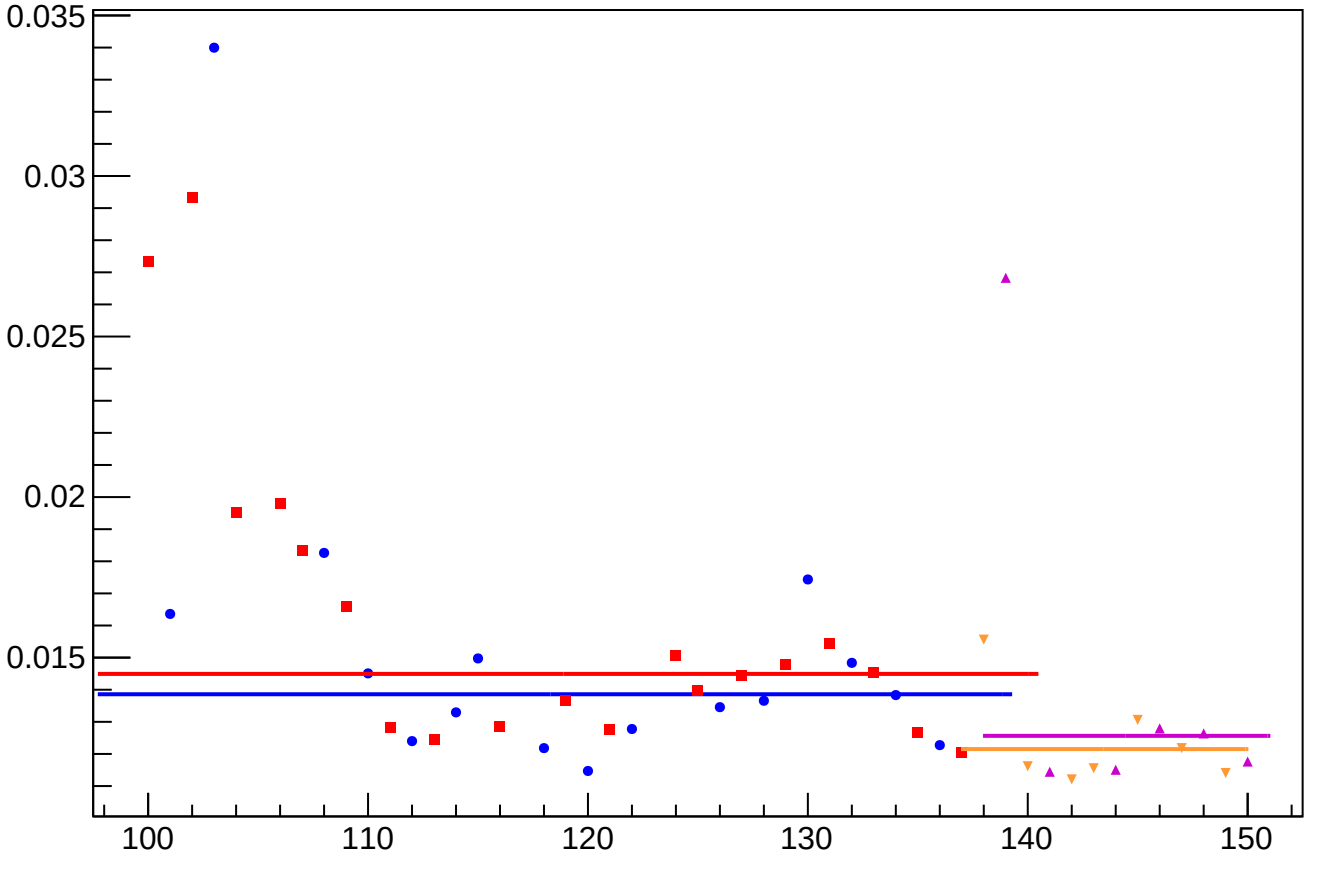
Right: 0.959+/-0.000 $\chi^2$/NDF: 3144762694.7/34

In: 1.143+/-0.000 $\chi^2$/NDF:3493277718.8/21

Out: 1.149+/-0.000 $\chi^2$/NDF:4369554950.9/25

All: 1.146+/-0.000 $\chi^2$/NDF: 7863789564.2/47

# yield_bpm11X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 599979.5/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:85600.4/6

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 544337.7/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:493319.4/5

Left: 0.012+/-0.000 $\chi^2$/NDF: 583907.2/12

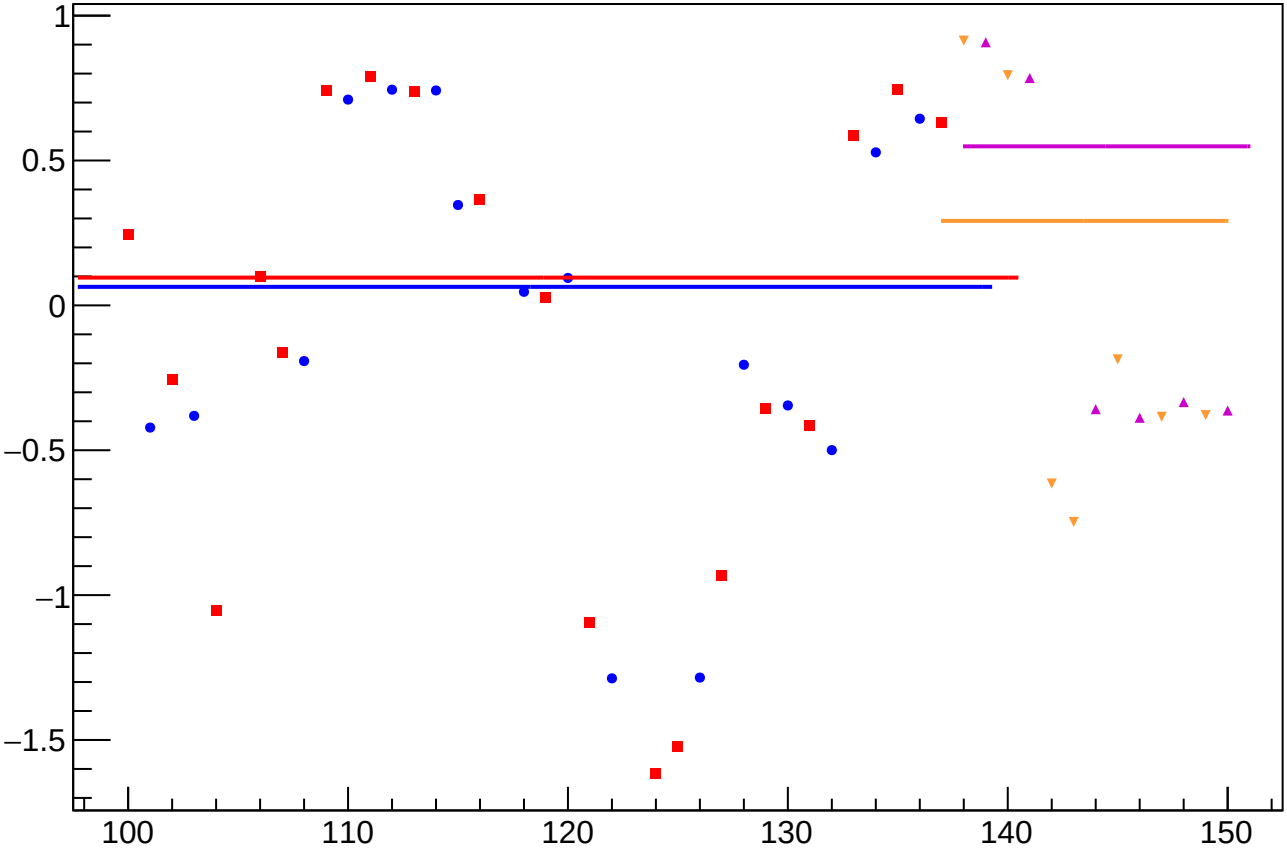
Right: 0.014+/-0.000 $\chi^2$/NDF: 1156942.1/34

In: 0.013+/-0.000 $\chi^2$/NDF:1144000.9/21

Out: 0.013+/-0.000 $\chi^2$/NDF:796746.6/25

All: 0.013+/-0.000 $\chi^2$/NDF: 1941061.4/47

# yield_bpm11Y_mean vs Slug, Sign Corrected




Right In: 0.064+/-0.000 $\chi^2$/NDF: 11035911379.4/15

Left Out: 0.292+/-0.000 $\chi^2$/NDF:19233609537.3/6

Right Out: 0.096+/-0.000 $\chi^2$/NDF: 17784850774.3/18

Left In: 0.549+/-0.000 $\chi^2$/NDF:14166290794.3/5

Left: 0.422+/-0.000 $\chi^2$/NDF: 34878052257.8/12

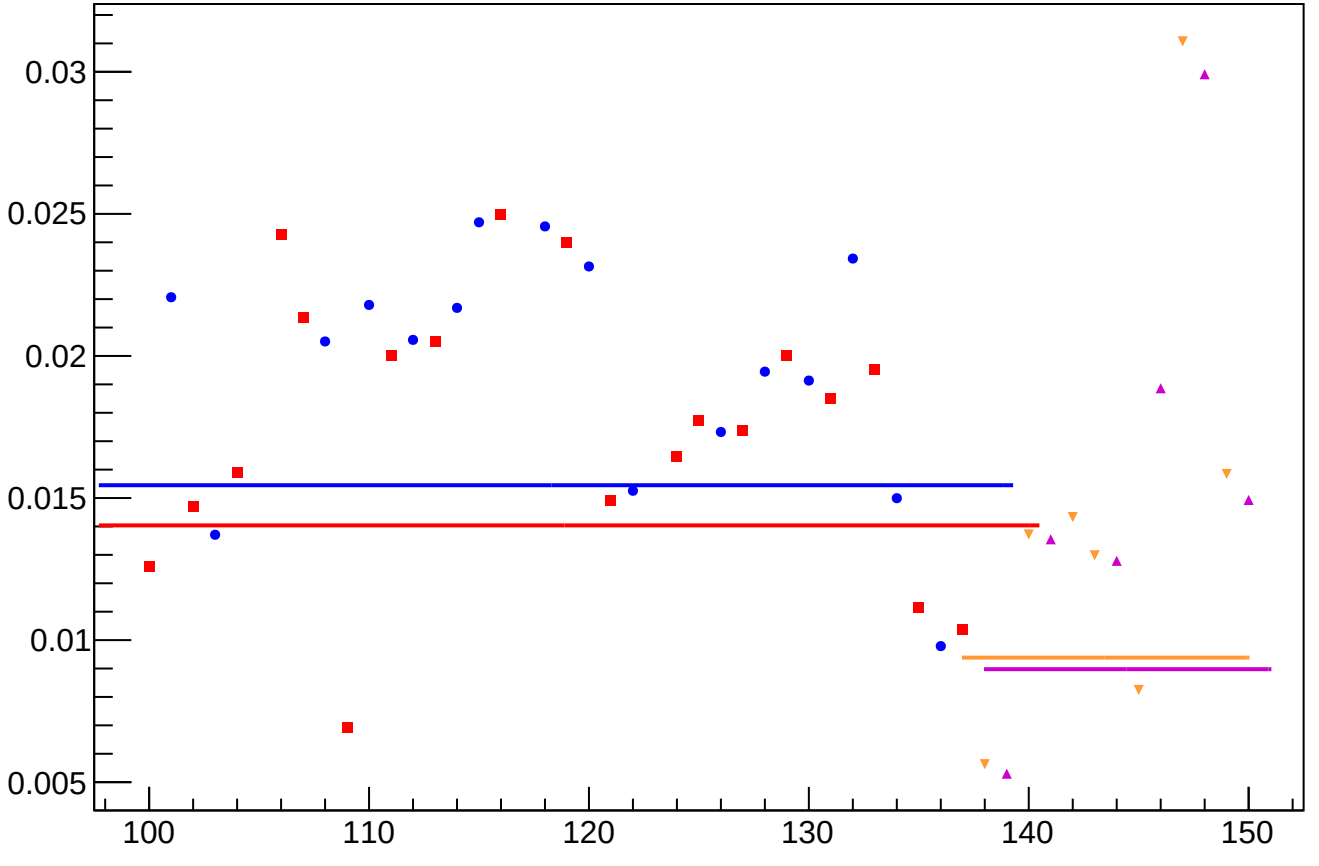
Right: 0.081+/-0.000 $\chi^2$/NDF: 28834701842.2/34

In: 0.375+/-0.000 $\chi^2$/NDF:29003222836.8/21

Out: 0.213+/-0.000 $\chi^2$/NDF:37700167378.6/25

All: 0.292+/-0.000 $\chi^2$/NDF: 67657830208.4/4

# yield_bpm11Y_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 1293711.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:1997131.6/6

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 1686554.4/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:2586843.8/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 4591356.3/12

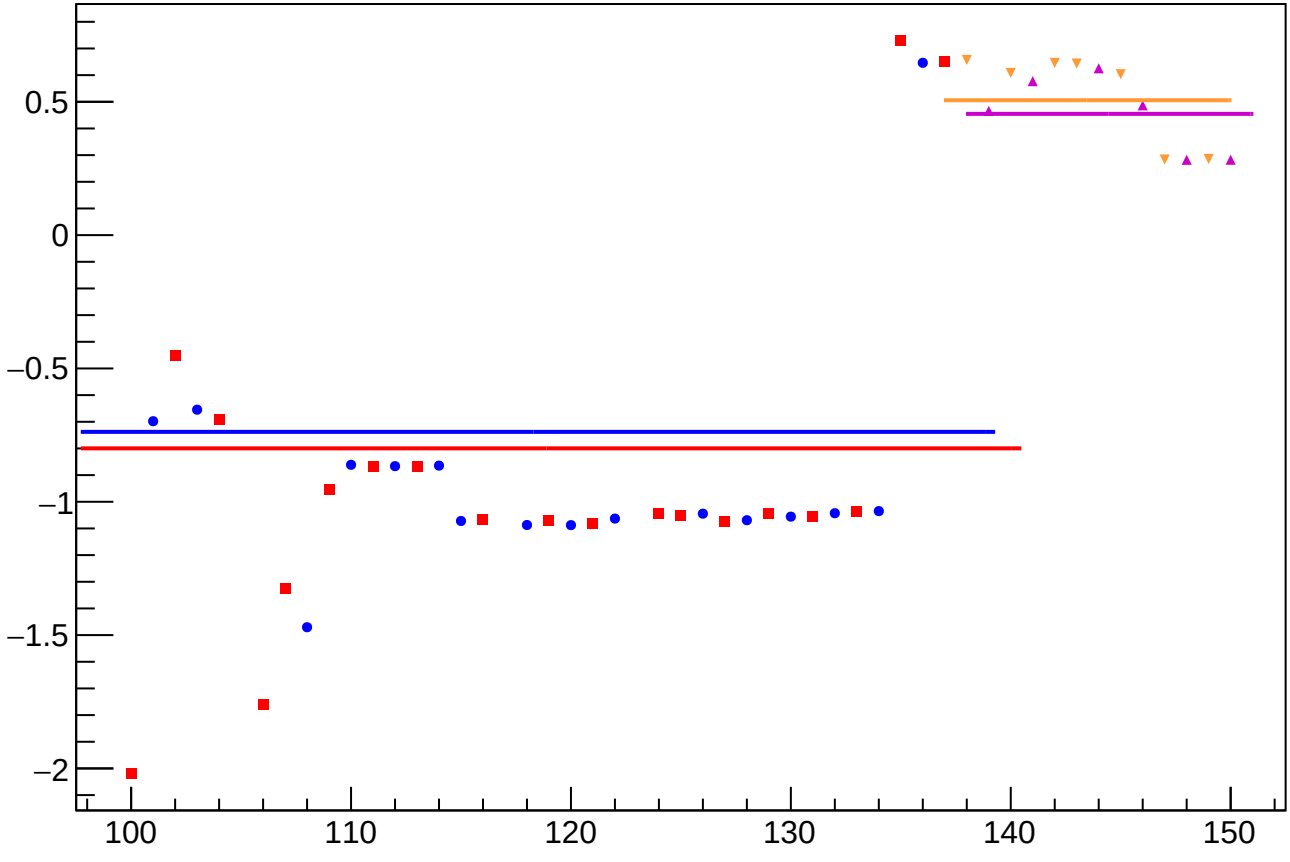
Right: 0.015+/-0.000 $\chi^2$/NDF: 3034802.2/34

In: 0.011+/-0.000 $\chi^2$/NDF:5235091.2/21

Out: 0.011+/-0.000 $\chi^2$/NDF:4454823.1/25

All: 0.011+/-0.000 $\chi^2$/NDF: 9689992.9/47

# yield_bpm12X_mean vs Slug, Sign Corrected




Right In: -0.738+/-0.000 $\chi^2$/NDF: 2072845802.4/15

Left Out: 0.506+/-0.000 $\chi^2$/NDF:127078285.0/6

Right Out: -0.800+/-0.000 $\chi^2$/NDF: 1883862445.0/18

Left In: 0.455+/-0.000 $\chi^2$/NDF:90136678.1/5

Left: 0.481+/-0.000 $\chi^2$/NDF: 223070702.1/12

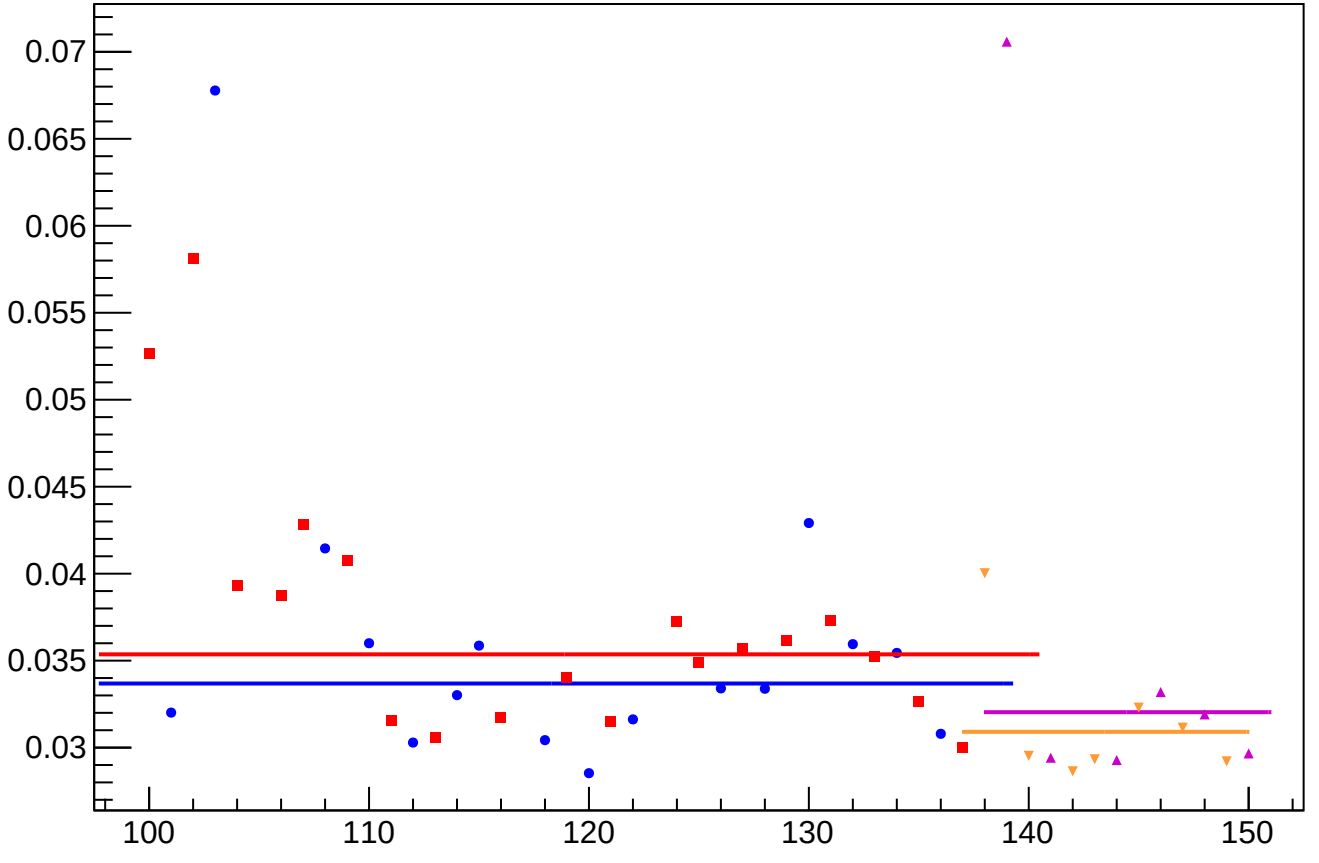
Right: -0.768+/-0.000 $\chi^2$/NDF: 3966960462.4/34

In: -0.215+/-0.000 $\chi^2$/NDF:5623779668.8/21

Out: -0.181+/-0.000 $\chi^2$/NDF:6184588694.6/25

All: -0.198+/-0.000 $\chi^2$/NDF: 11814019207.5/

# yield_bpm12X_rms vs Slug, Sign Corrected




Right In: 0.034+/-0.000 $\chi^2$/NDF: 420227.2/15

Left Out: 0.031+/-0.000 $\chi^2$/NDF:85612.3/6

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 296353.9/18

Left In: 0.032+/-0.000 $\chi^2$/NDF:519919.5/5

Left: 0.031+/-0.000 $\chi^2$/NDF: 611256.9/12

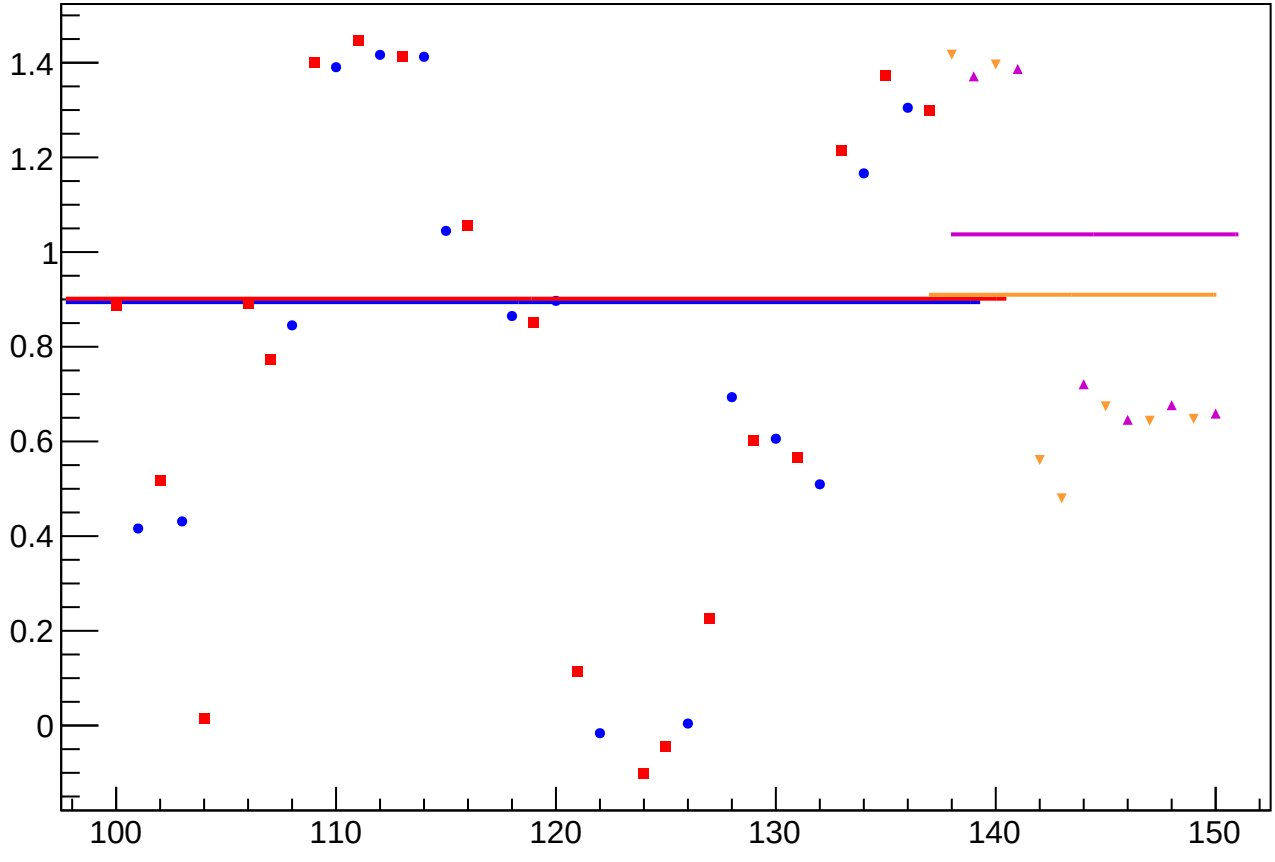
Right: 0.034+/-0.000 $\chi^2$/NDF: 731644.4/34

In: 0.033+/-0.000 $\chi^2$/NDF:953362.5/21

Out: 0.033+/-0.000 $\chi^2$/NDF:479152.6/25

All: 0.033+/-0.000 $\chi^2$/NDF: 1433341.3/47

# yield_bpm12Y_mean vs Slug, Sign Corrected




Right In: 0.894+/-0.000 $\chi^2$/NDF: 12749707787.6/15

Left Out: 0.910+/-0.000 $\chi^2$/NDF:9992446330.3/6

Right Out: 0.902+/-0.000 $\chi^2$/NDF: 17893051843.7/18

Left In: 1.037+/-0.000 $\chi^2$/NDF:6814475528.4/5

Left: 0.970+/-0.000 $\chi^2$/NDF: 17294355276.0/12

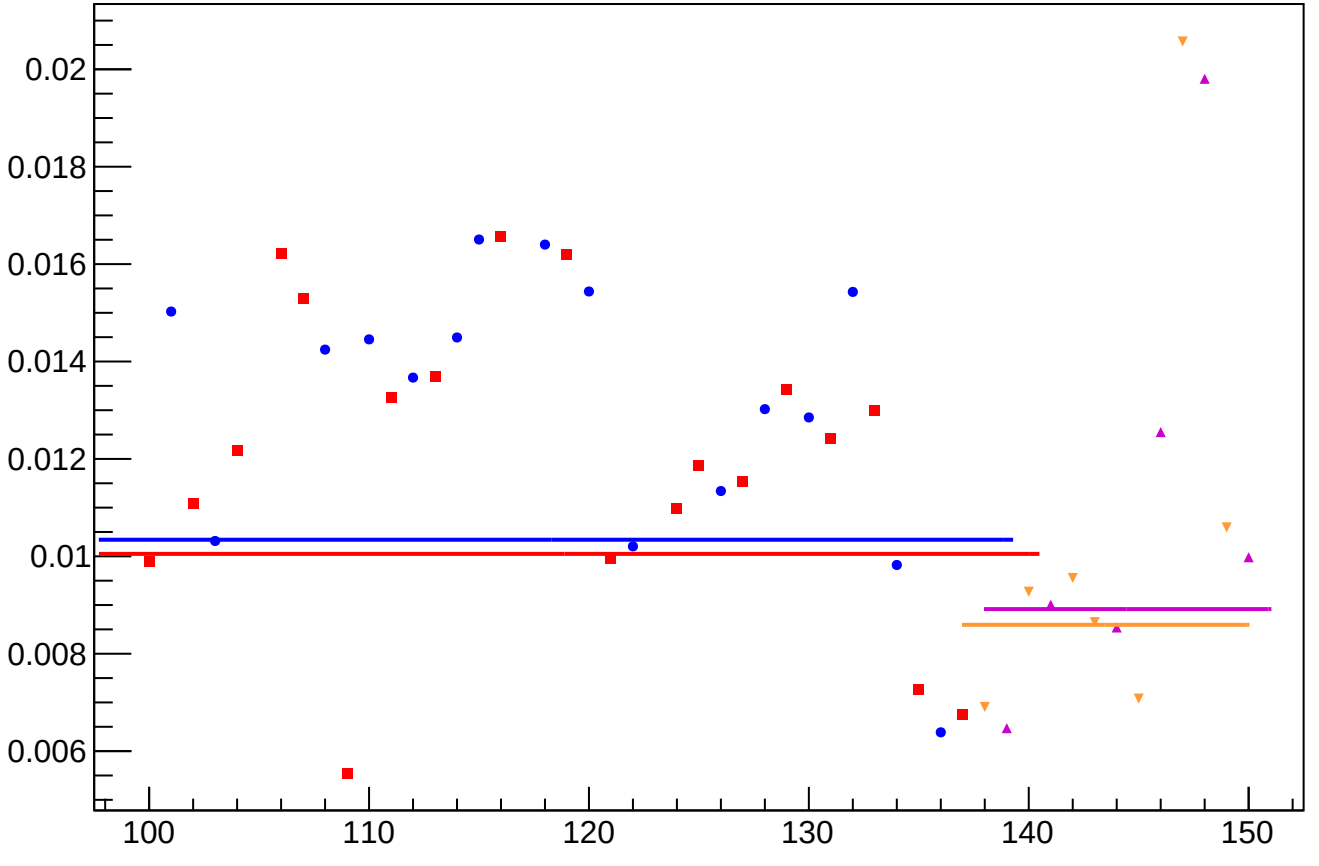
Right: 0.898+/-0.000 $\chi^2$/NDF: 30644277544.6/34

In: 0.966+/-0.000 $\chi^2$/NDF:20139857538.9/21

Out: 0.906+/-0.000 $\chi^2$/NDF:27887673322.2/25

All: 0.935+/-0.000 $\chi^2$/NDF: 48243803838.3/4

# yield_bpm12Y_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1350446.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:775068.3/6

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 1336866.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:853254.0/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 1634561.8/12

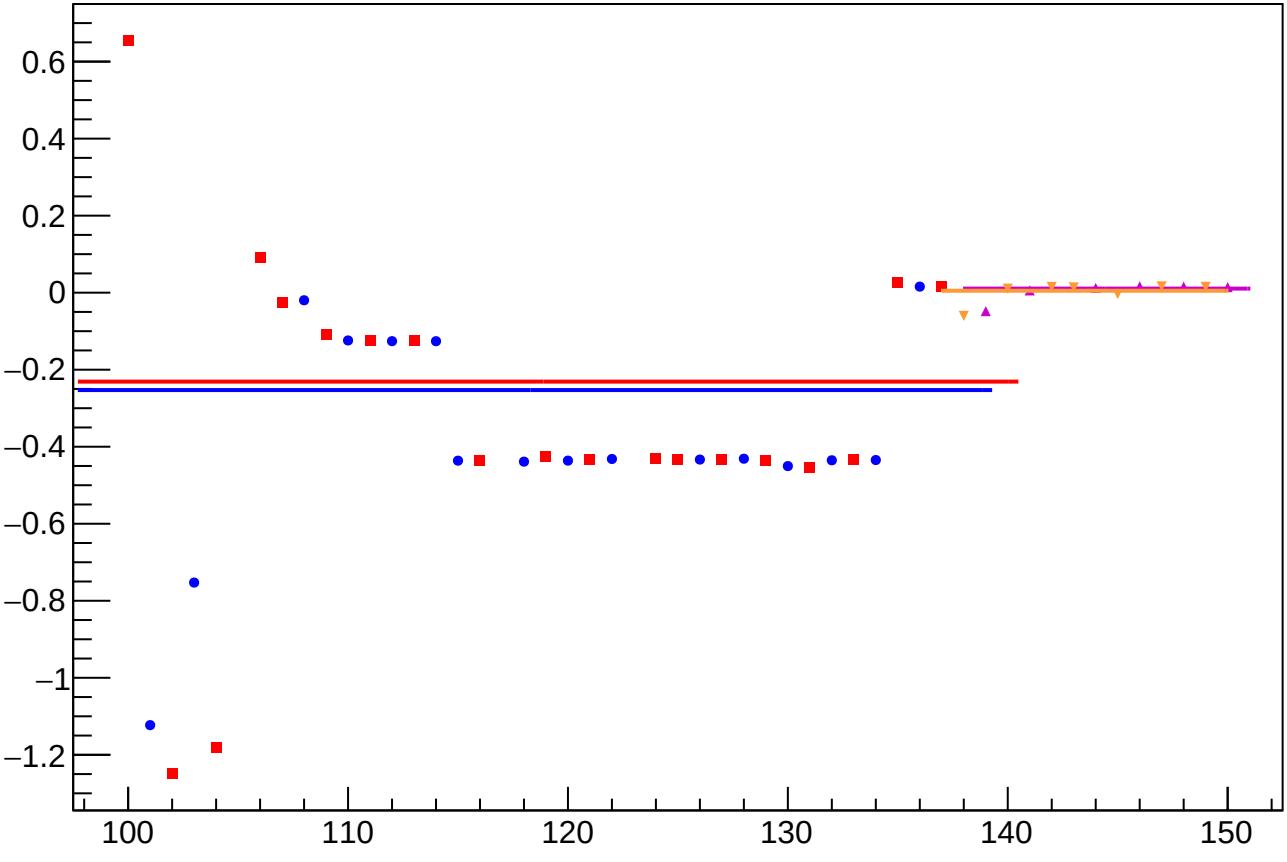
Right: 0.010+/-0.000 $\chi^2$/NDF: 2692207.1/34

In: 0.010+/-0.000 $\chi^2$/NDF:2317736.8/21

Out: 0.009+/-0.000 $\chi^2$/NDF:2243302.5/25

All: 0.009+/-0.000 $\chi^2$/NDF: 4573210.7/47

# yield_bpm16X_mean vs Slug, Sign Corrected




Right In: -0.253+/-0.000 $\chi^2$/NDF: 2025242410.1/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:19082269.2/6

Right Out: -0.231+/-0.000 $\chi^2$/NDF: 1808702536.0/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:4728699.1/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 24477323.8/12

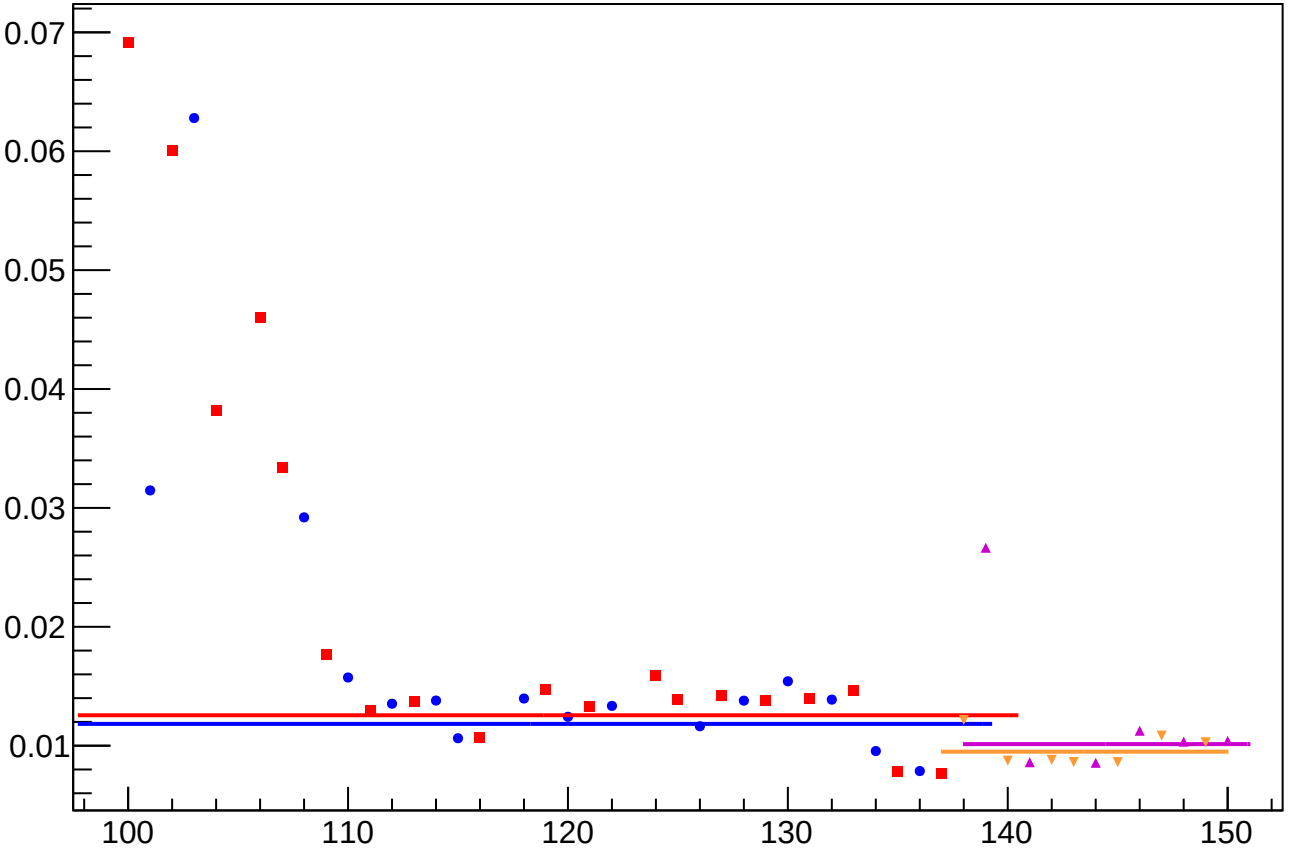
Right: -0.243+/-0.000 $\chi^2$/NDF: 3842049612.8/34

In: -0.115+/-0.000 $\chi^2$/NDF:3324637439.6/21

Out: -0.091+/-0.000 $\chi^2$/NDF:2872968230.5/25

All: -0.103+/-0.000 $\chi^2$/NDF: 6218060040.8/4

# yield_bpm16X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1942550.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:121805.5/6

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2217419.3/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:744889.0/5

Left: 0.010+/-0.000 $\chi^2$/NDF: 883916.8/12

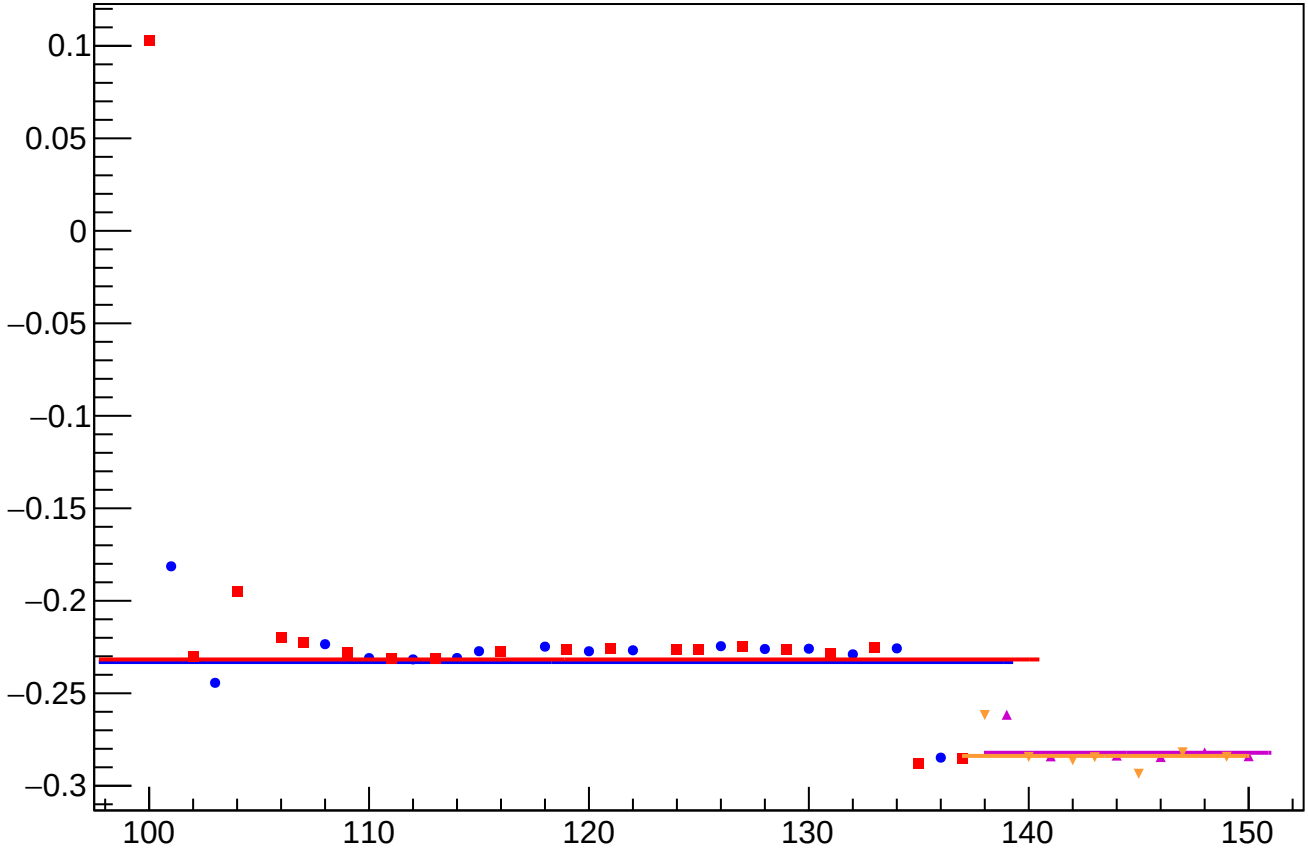
Right: 0.012+/-0.000 $\chi^2$/NDF: 4177625.3/34

In: 0.011+/-0.000 $\chi^2$/NDF:2795207.3/21

Out: 0.011+/-0.000 $\chi^2$/NDF:2691698.4/25

All: 0.011+/-0.000 $\chi^2$/NDF: 5489761.3/47

# yield_bpm16Y_mean vs Slug, Sign Corrected




Right In: -0.233+/-0.000 $\chi^2$/NDF: 199059878.3/15

Left Out: -0.284+/-0.000 $\chi^2$/NDF:14462855.5/6

Right Out: -0.232+/-0.000 $\chi^2$/NDF: 287244778.7/18

Left In: -0.282+/-0.000 $\chi^2$/NDF:6112844.6/5

Left: -0.283+/-0.000 $\chi^2$/NDF: 20859127.8/12

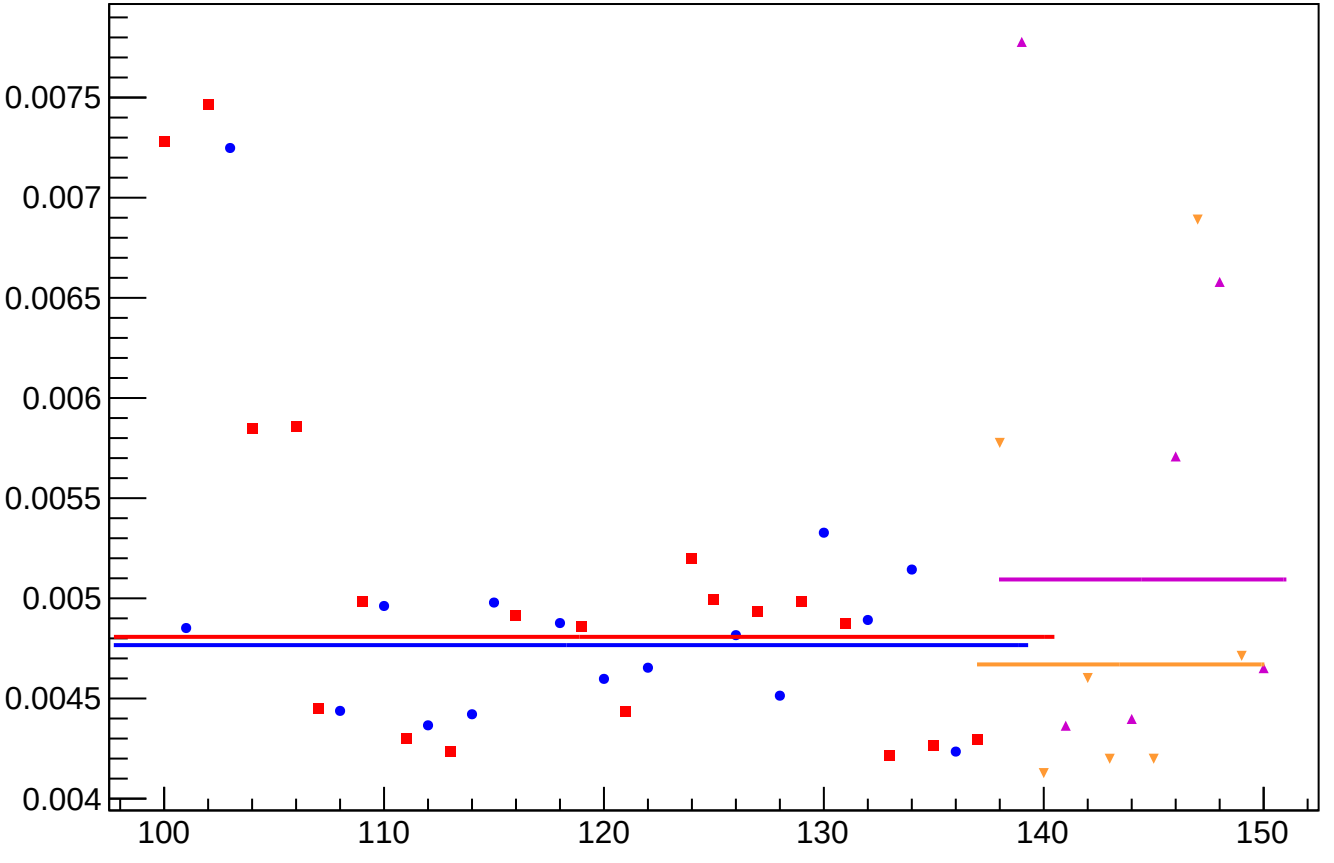
Right: -0.232+/-0.000 $\chi^2$/NDF: 486580881.0/34

In: -0.252+/-0.000 $\chi^2$/NDF:471149895.1/21

Out: -0.254+/-0.000 $\chi^2$/NDF:641514320.4/25

All: -0.253+/-0.000 $\chi^2$/NDF: 1113587625.4/4

# yield_bpm16Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 191759.7/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:283710.1/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 293738.0/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:392667.3/5

Left: 0.005+/-0.000 $\chi^2$/NDF: 712112.5/12

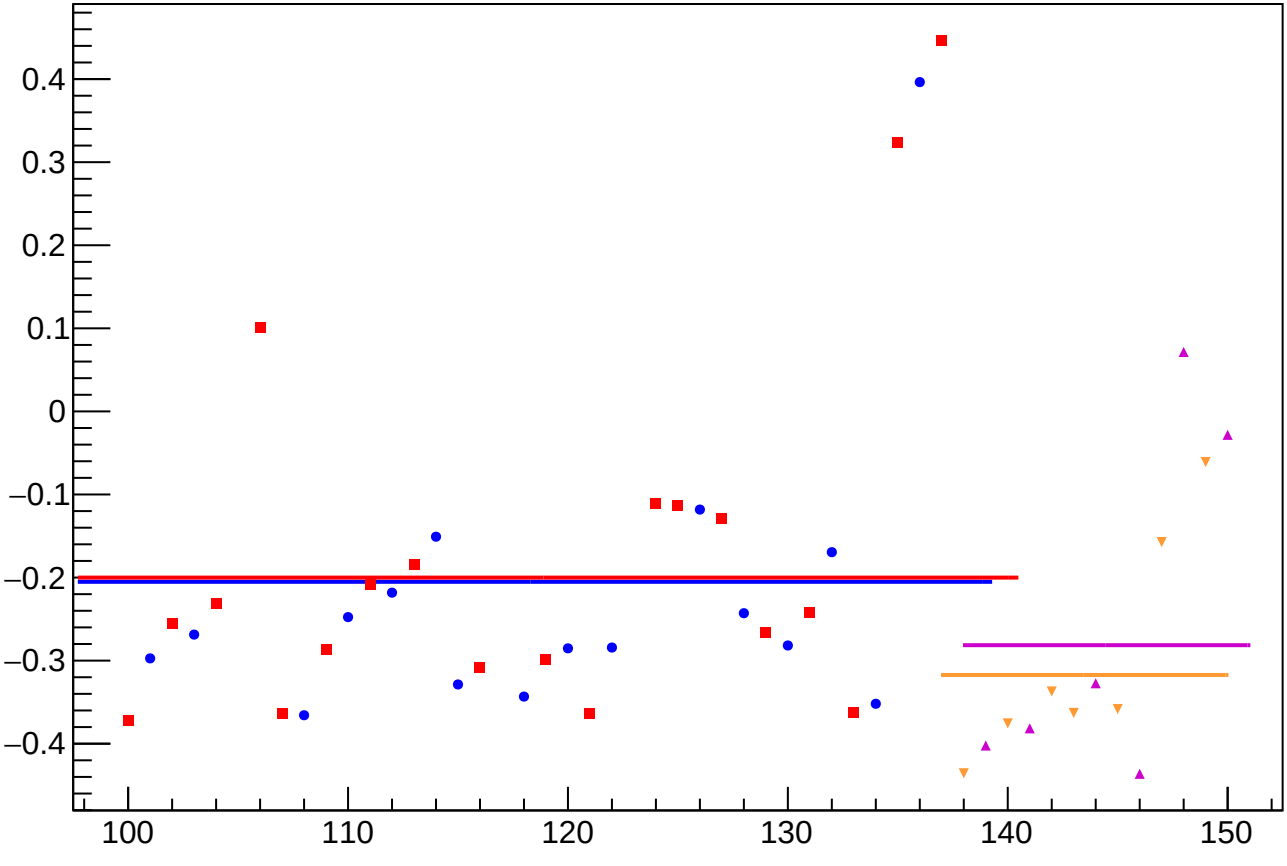
Right: 0.005+/-0.000 $\chi^2$/NDF: 485985.9/34

In: 0.005+/-0.000 $\chi^2$/NDF:608175.0/21

Out: 0.005+/-0.000 $\chi^2$/NDF:582184.7/25

All: 0.005+/-0.000 $\chi^2$/NDF: 1200713.6/47

# yield_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -0.205+/-0.000 $\chi^2$/NDF: 6189271855.3/15

Left Out: -0.317+/-0.000 $\chi^2$/NDF:2413328266.8/6

Right Out: -0.200+/-0.000 $\chi^2$/NDF: 5249978819.5/18

Left In: -0.281+/-0.000 $\chi^2$/NDF:4640753168.9/5

Left: -0.300+/-0.000 $\chi^2$/NDF: 7156800074.8/12

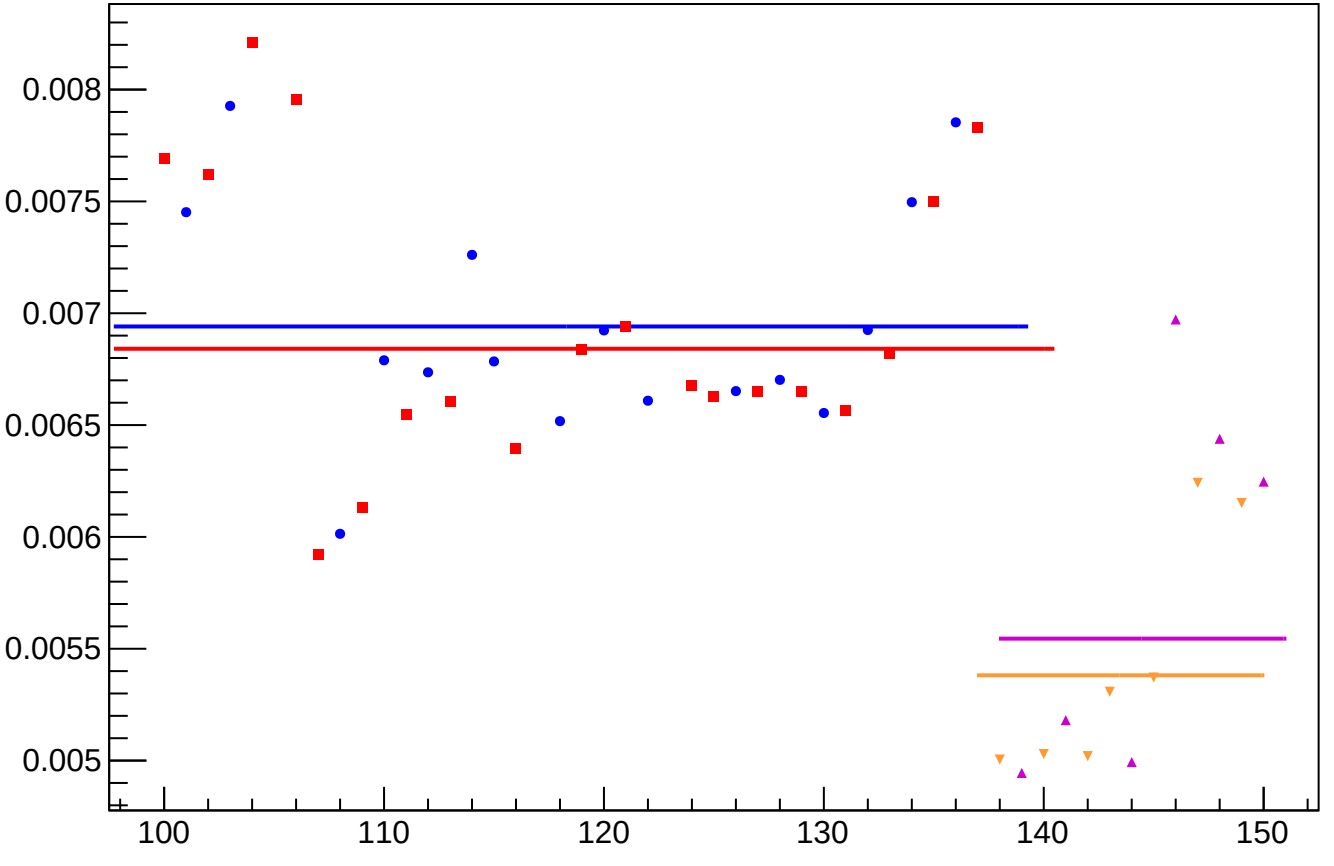
Right: -0.203+/-0.000 $\chi^2$/NDF: 11441176033.3/34

In: -0.244+/-0.000 $\chi^2$/NDF:11262859740.3/21

Out: -0.261+/-0.000 $\chi^2$/NDF:8771459215.9/25

All: -0.253+/-0.000 $\chi^2$/NDF: 20081298807.3/

# yield_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 85159.0/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:71687.7/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 99819.4/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:160903.4/5

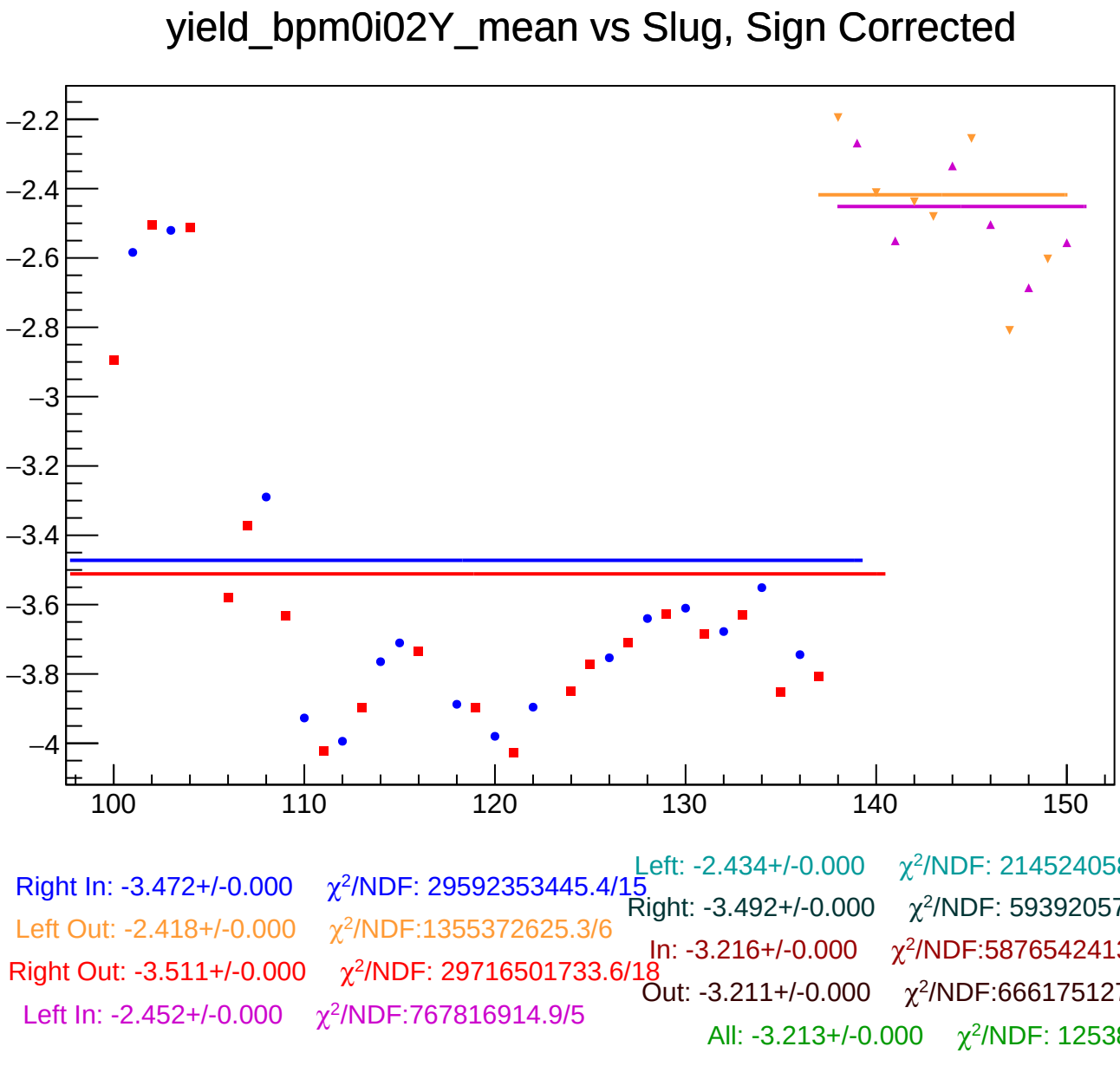
Left: 0.005+/-0.000 $\chi^2$/NDF: 236883.7/12

Right: 0.007+/-0.000 $\chi^2$/NDF: 186467.2/34

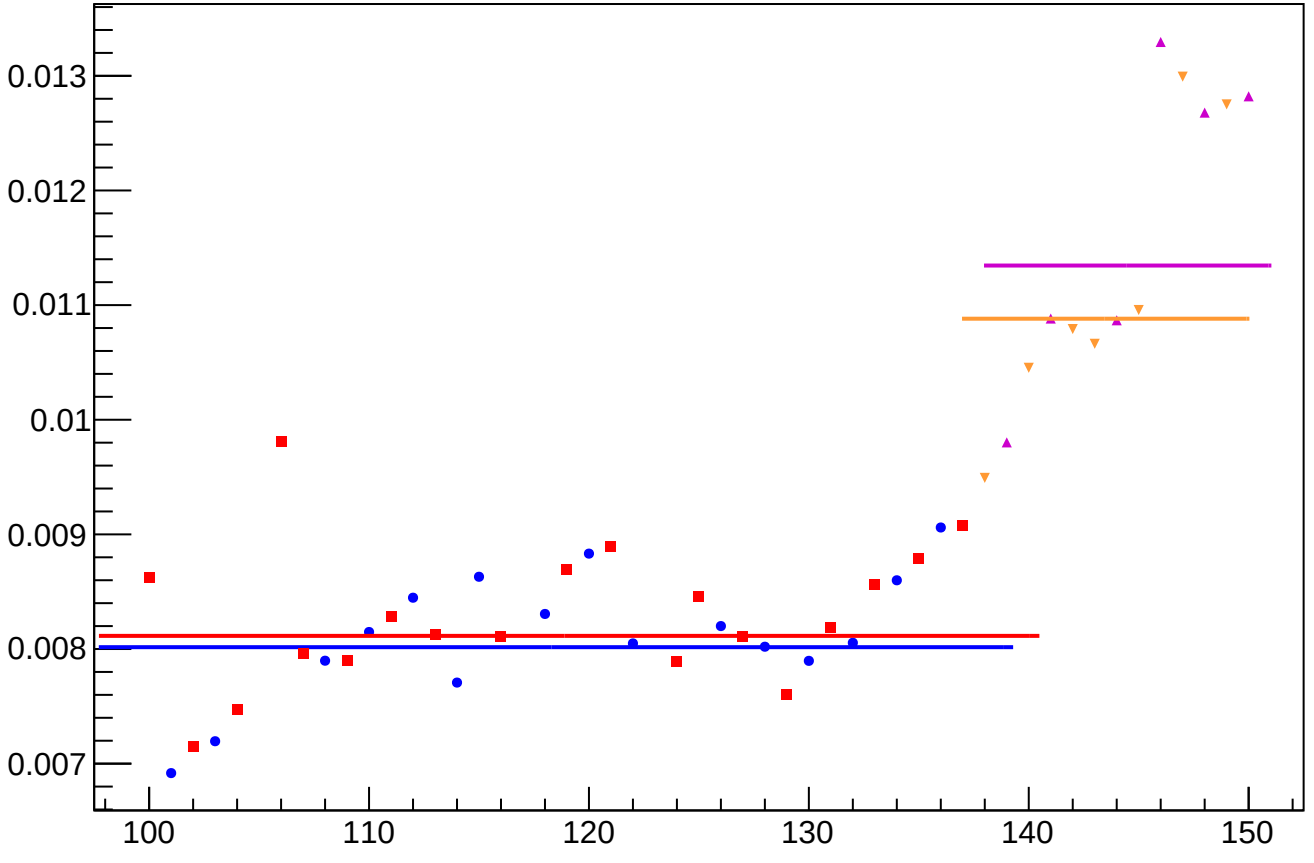
In: 0.006+/-0.000 $\chi^2$/NDF:535706.0/21

Out: 0.006+/-0.000 $\chi^2$/NDF:515289.3/25

All: 0.006+/-0.000 $\chi^2$/NDF: 1058234.7/47


yield_bpm0i02Y_mean vs Slug, Sign Corrected
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
−4
100
110
120
130
140
150
Right In: -3.472+/-0.000 χ²/NDF: 29592353445.4/15
Left Out: -2.418+/-0.000 χ²/NDF:1355372625.3/6
Right Out: -3.511+/-0.000 χ²/NDF: 29716501733.6/18
Left In: -2.452+/-0.000 χ²/NDF:767816914.9/5
Left: -2.434+/-0.000 χ²/NDF: 2145240588.1/12
Right: -3.492+/-0.000 χ²/NDF: 59392057159.0/34
In: -3.216+/-0.000 χ²/NDF:58765424132.9/21
Out: -3.211+/-0.000 χ²/NDF:66617512741.9/25
All: -3.213+/-0.000 χ²/NDF: 125385318809.1

# yield_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 86232.2/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:102427.4/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 71067.5/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:113647.8/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 224369.2/12

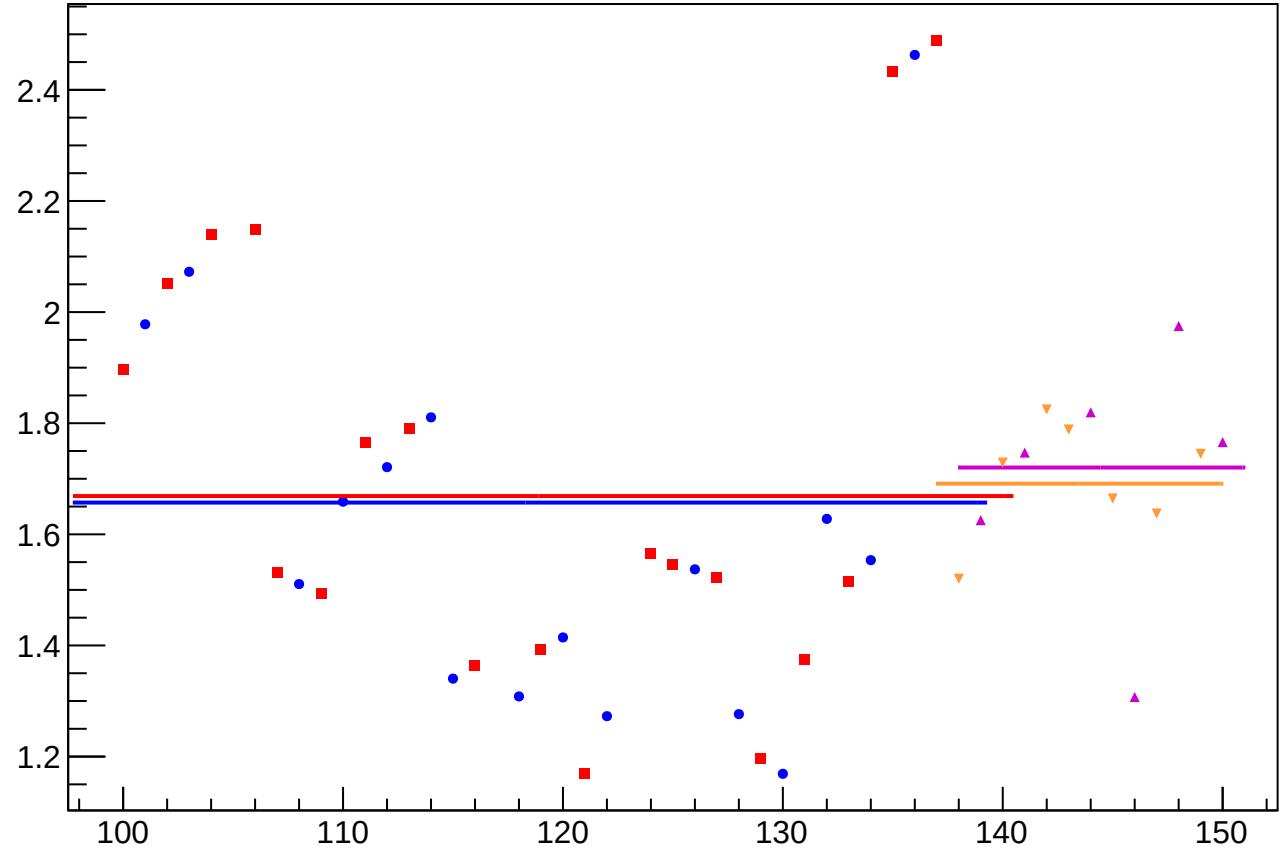
Right: 0.008+/-0.000 $\chi^2$/NDF: 158353.0/34

In: 0.009+/-0.000 $\chi^2$/NDF:804300.7/21

Out: 0.009+/-0.000 $\chi^2$/NDF:628485.1/25

All: 0.009+/-0.000 $\chi^2$/NDF: 1432876.0/47

# yield_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: 1.657+/-0.000 $\chi^2$/NDF: 6666154117.3/15

Left Out: 1.691+/-0.000 $\chi^2$/NDF:336846204.2/6

Right Out: 1.669+/-0.000 $\chi^2$/NDF: 6357589265.5/18

Left In: 1.720+/-0.000 $\chi^2$/NDF:1093452032.2/5

Left: 1.705+/-0.000 $\chi^2$/NDF: 1445270713.6/12

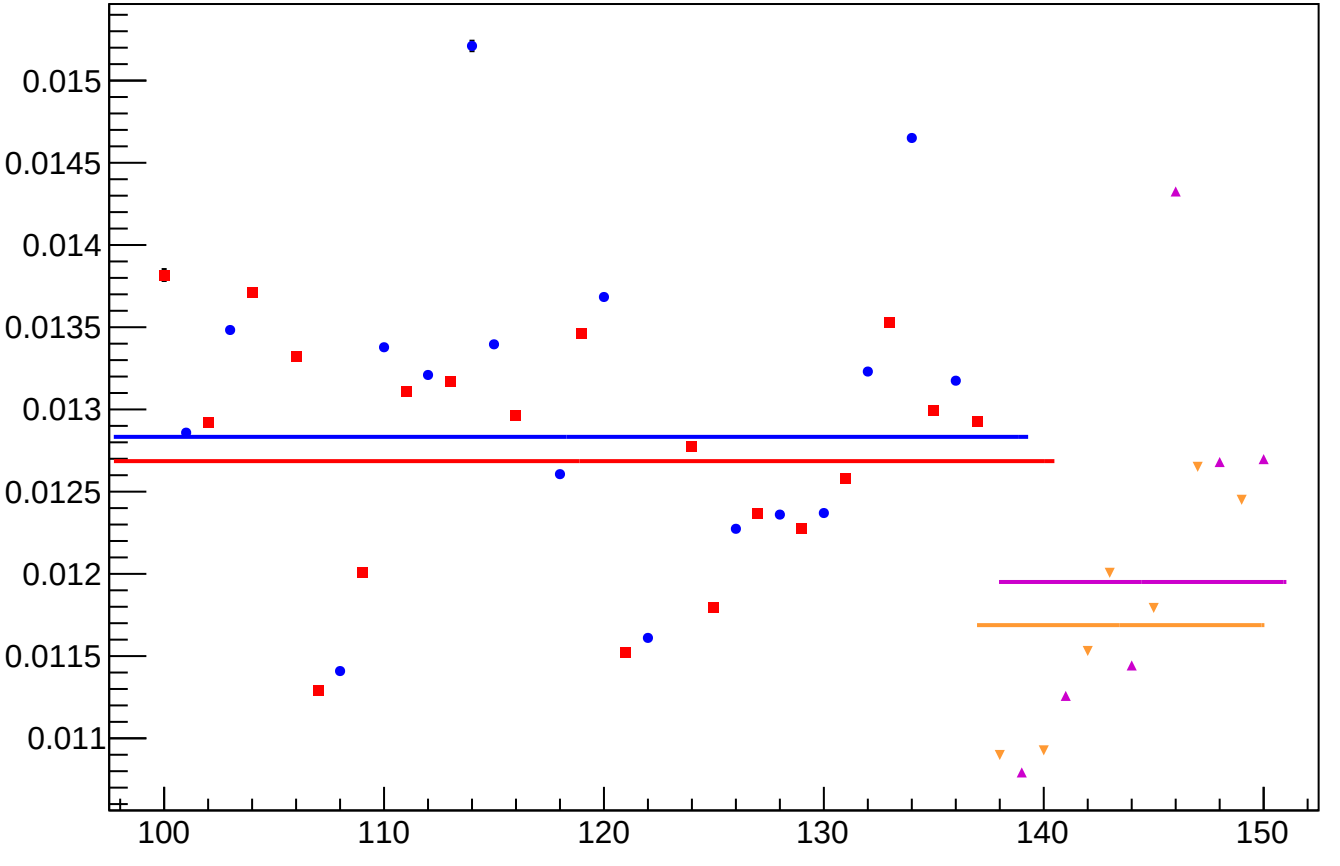
Right: 1.663+/-0.000 $\chi^2$/NDF: 13026763419.8/34

In: 1.685+/-0.000 $\chi^2$/NDF:7834960317.8/21

Out: 1.679+/-0.000 $\chi^2$/NDF:6704525638.8/25

All: 1.682+/-0.000 $\chi^2$/NDF: 14541001034.2/4

# yield_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 52516.5/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:31991.4/6

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 43279.9/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:82692.3/5

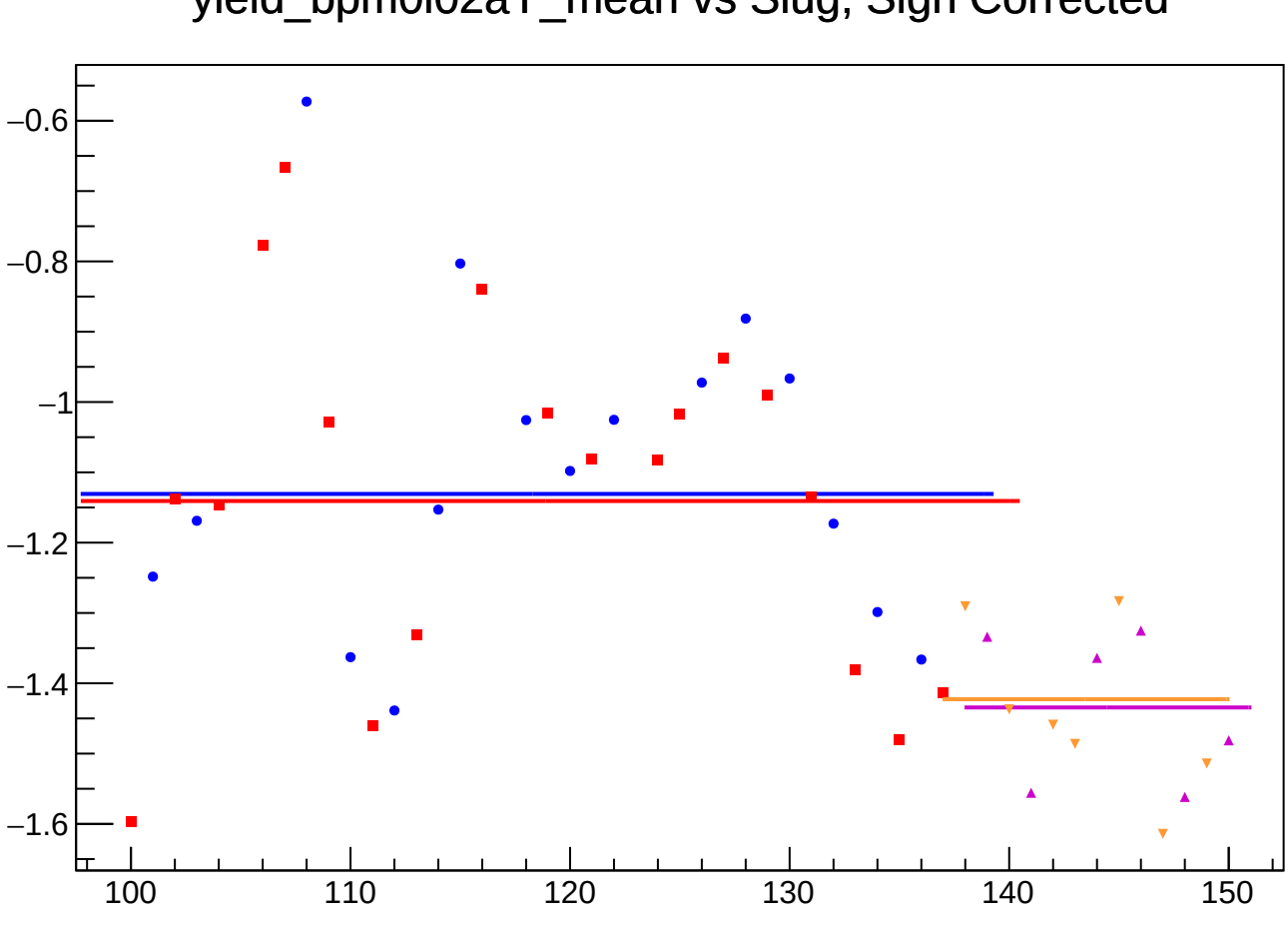
Left: 0.012+/-0.000 $\chi^2$/NDF: 117132.3/12

Right: 0.013+/-0.000 $\chi^2$/NDF: 96748.3/34

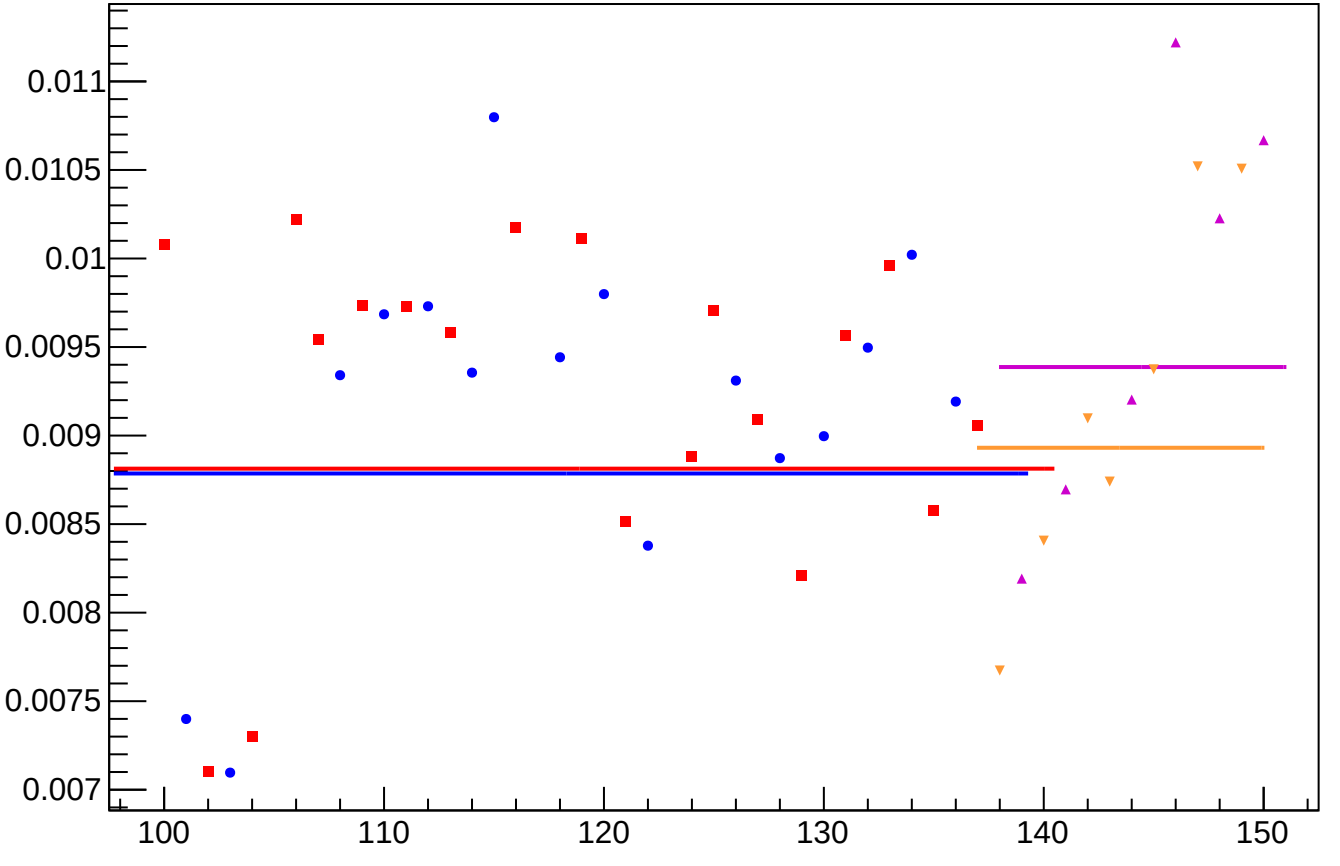
In: 0.012+/-0.000 $\chi^2$/NDF:164718.5/21

Out: 0.012+/-0.000 $\chi^2$/NDF:115675.1/25

All: 0.012+/-0.000 $\chi^2$/NDF: 283791.6/47


yield_bpm0i02aY_mean vs Slug, Sign Corrected
−0.6
−0.8
−1
−1.2
−1.4
−1.6
100
110
120
130
140
150
Right In: -1.131+/-0.000 χ²/NDF: 3790121991.7/15
Left Out: -1.423+/-0.000 χ²/NDF:699037556.4/6
Right Out: -1.141+/-0.000 χ²/NDF: 3544012262.4/18
Left In: -1.434+/-0.000 χ²/NDF:531763303.4/5
Left: -1.428+/-0.000 χ²/NDF: 1234666338.7/12
Right: -1.136+/-0.000 χ²/NDF: 7338628665.5/34
In: -1.244+/-0.000 χ²/NDF:7375208179.0/21
Out: -1.254+/-0.000 χ²/NDF:7103086806.3/25
All: -1.249+/-0.000 χ²/NDF: 14485964560.1/

# yield_bpm0i02aY_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 173477.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:113466.5/6

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 204443.3/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:115563.8/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 240732.5/12

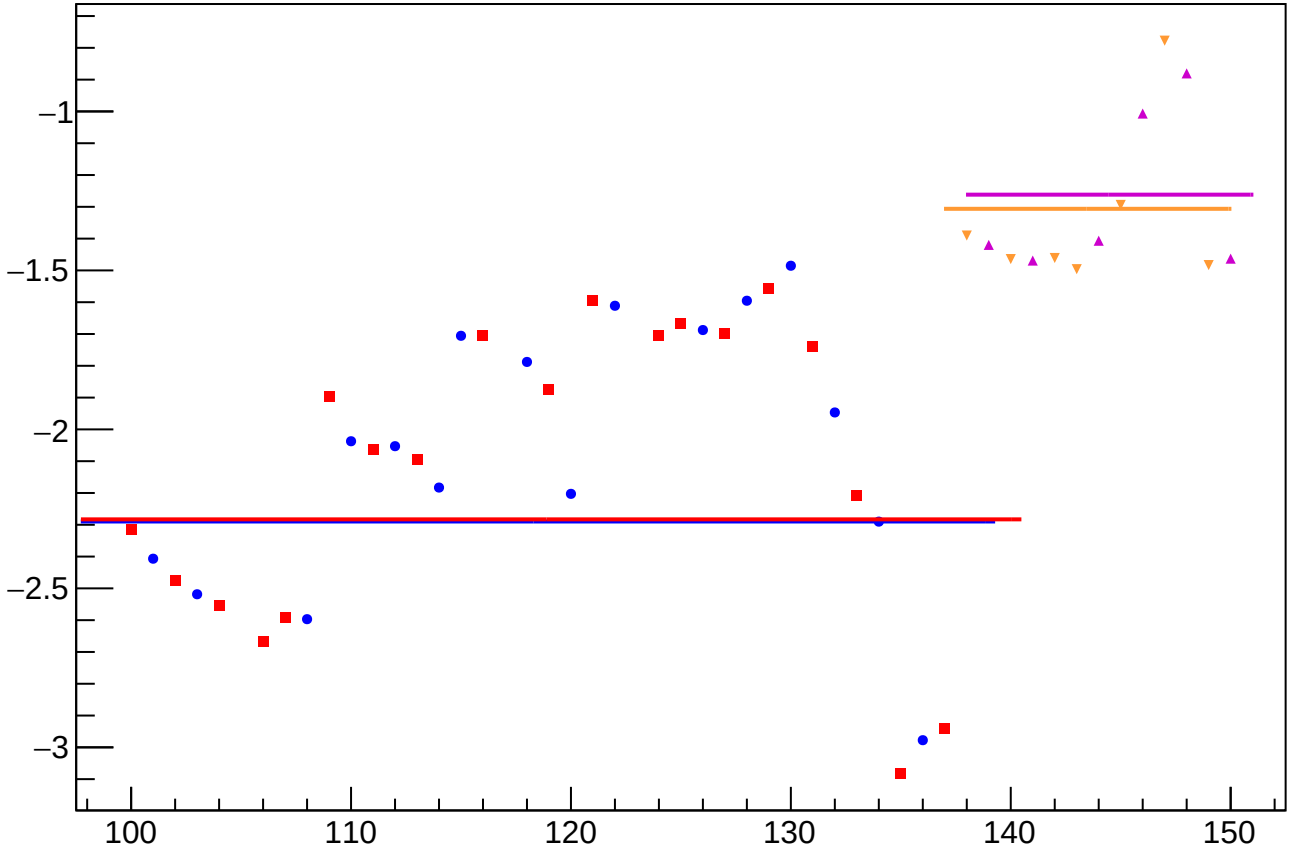
Right: 0.009+/-0.000 $\chi^2$/NDF: 377987.0/34

In: 0.009+/-0.000 $\chi^2$/NDF:312971.0/21

Out: 0.009+/-0.000 $\chi^2$/NDF:318911.6/25

All: 0.009+/-0.000 $\chi^2$/NDF: 635137.3/47

# yield_bpm0i05X_mean vs Slug, Sign Corrected




Right In: -2.290+/-0.000 $\chi^2$/NDF: 15222817978.4/15

Left Out: -1.306+/-0.000 $\chi^2$/NDF:4712173575.3/6

Right Out: -2.283+/-0.000 $\chi^2$/NDF: 17032219519.1/18

Left In: -1.262+/-0.000 $\chi^2$/NDF:3847798512.0/5

Left: -1.284+/-0.000 $\chi^2$/NDF: 8624514550.3/12

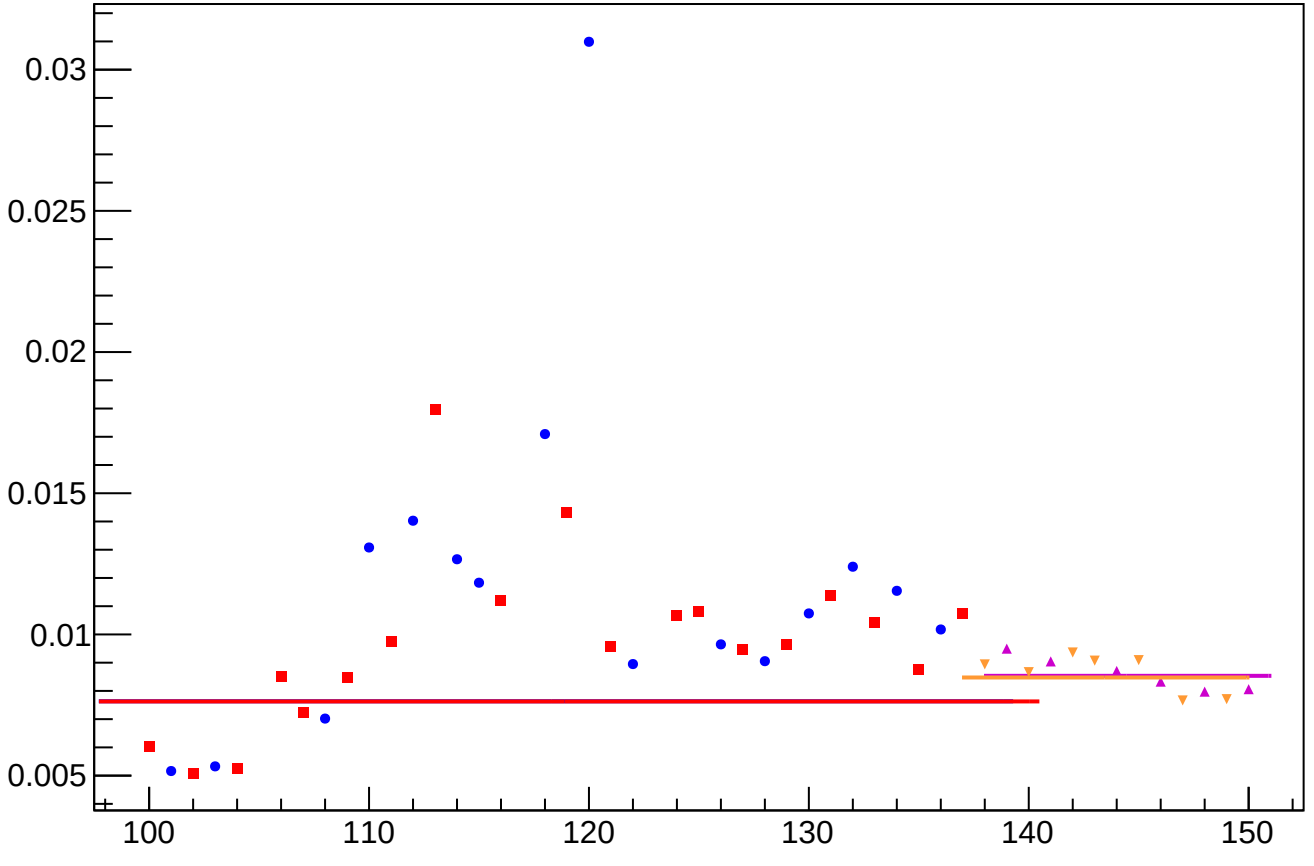
Right: -2.286+/-0.000 $\chi^2$/NDF: 32257076383.6/34

In: -1.851+/-0.000 $\chi^2$/NDF:58381749716.6/21

Out: -1.885+/-0.000 $\chi^2$/NDF:58774734359.9/25

All: -1.869+/-0.000 $\chi^2$/NDF: 117245040798.

# yield_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1710797.2/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:56029.7/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 1317740.1/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:35181.1/5

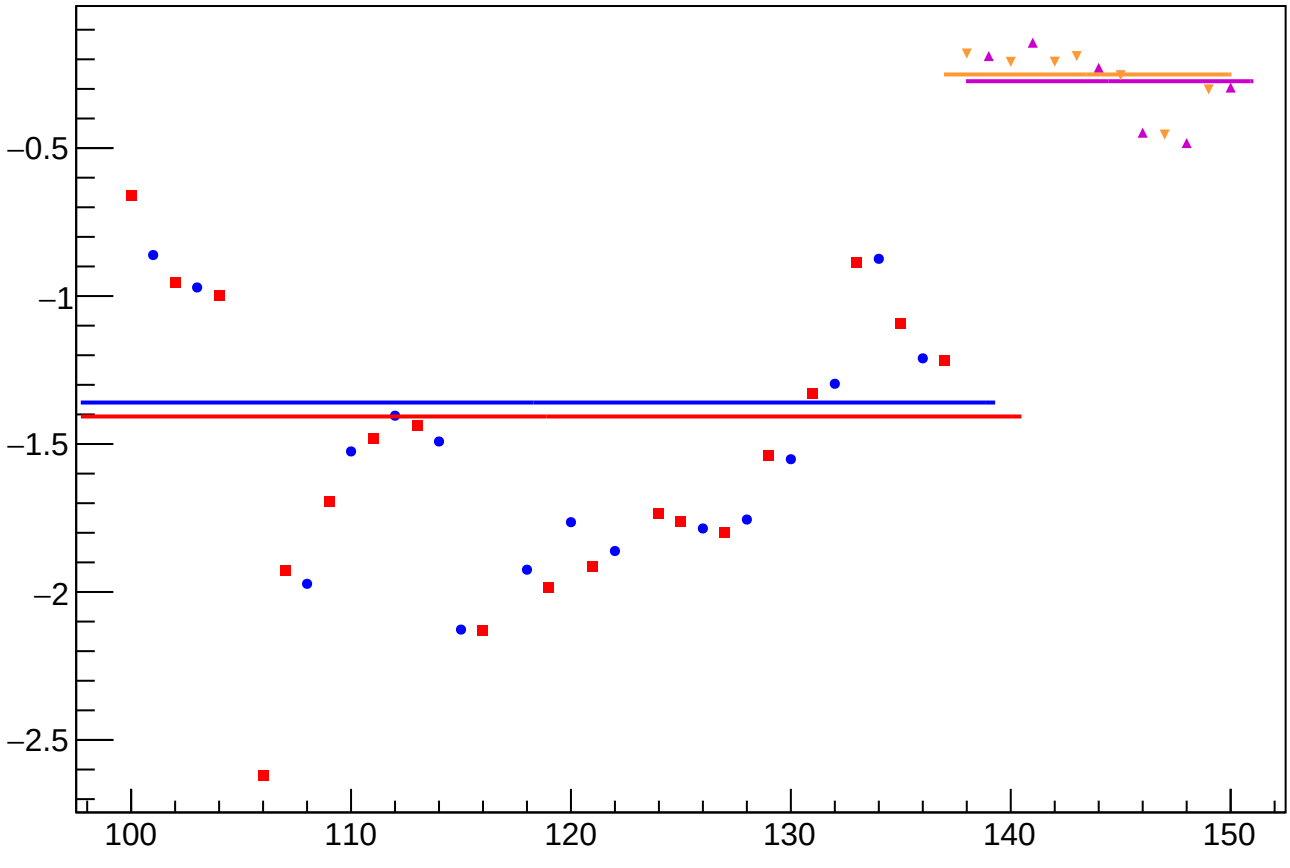
Left: 0.009+/-0.000 $\chi^2$/NDF: 91437.1/12

Right: 0.008+/-0.000 $\chi^2$/NDF: 3028539.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:1806438.8/21

Out: 0.008+/-0.000 $\chi^2$/NDF:1429562.2/25

All: 0.008+/-0.000 $\chi^2$/NDF: 3236306.7/47




Right In: -1.360+/-0.000 $\chi^2$/NDF: 21491965614.5/15

Left Out: -0.251+/-0.000 $\chi^2$/NDF:1702823795.6/6

Right Out: -1.407+/-0.000 $\chi^2$/NDF: 29835610413.0/18

Left In: -0.274+/-0.000 $\chi^2$/NDF:2921164582.7/5

Left: -0.262+/-0.000 $\chi^2$/NDF: 4687569431.7/12

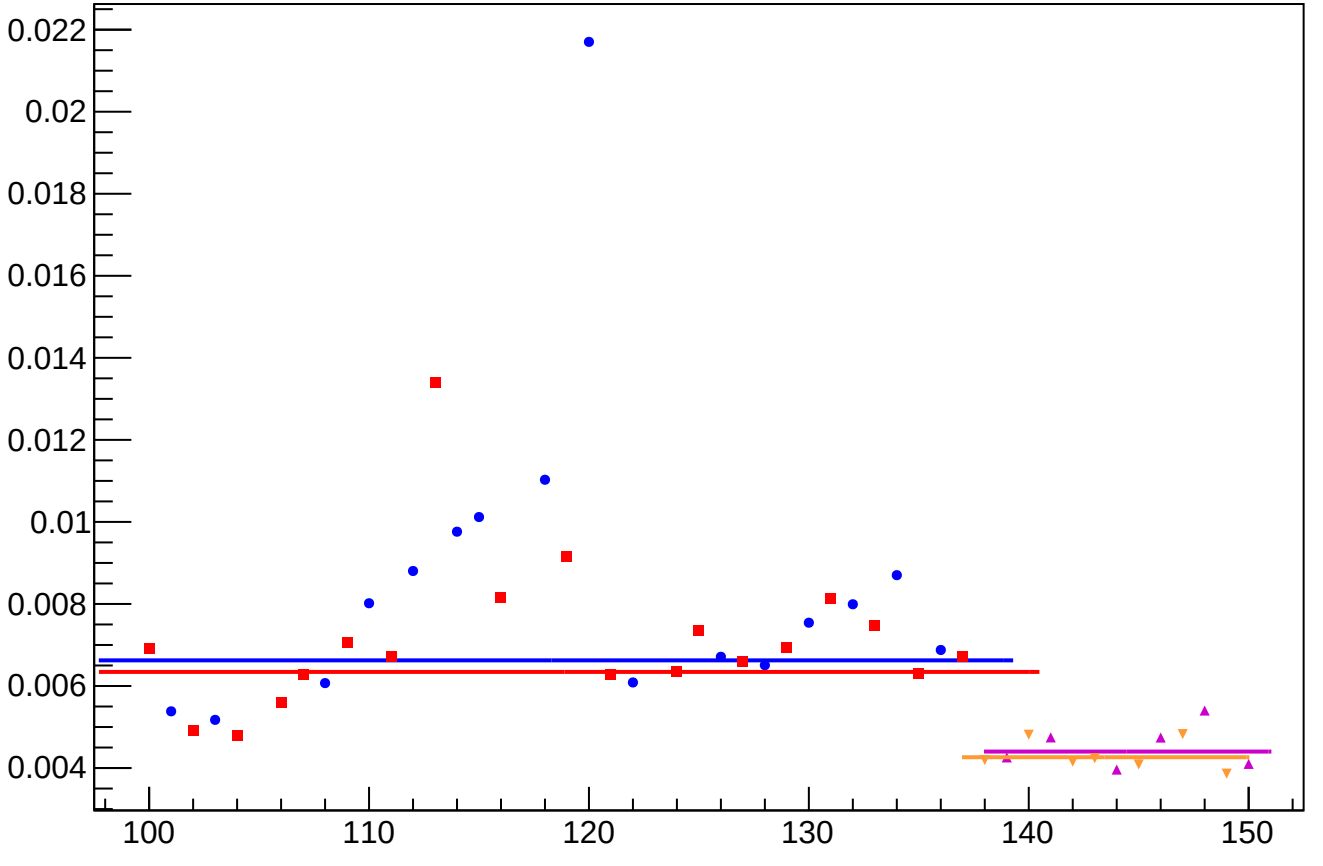
Right: -1.385+/-0.000 $\chi^2$/NDF: 51484688313.9/34

In: -0.666+/-0.000 $\chi^2$/NDF:123725055931.1/21

Out: -0.680+/-0.000 $\chi^2$/NDF:159386718301.8/25

All: -0.673+/-0.000 $\chi^2$/NDF: 283145300339.4

# yield_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 693783.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:56110.7/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 529170.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:88300.5/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 149085.4/12

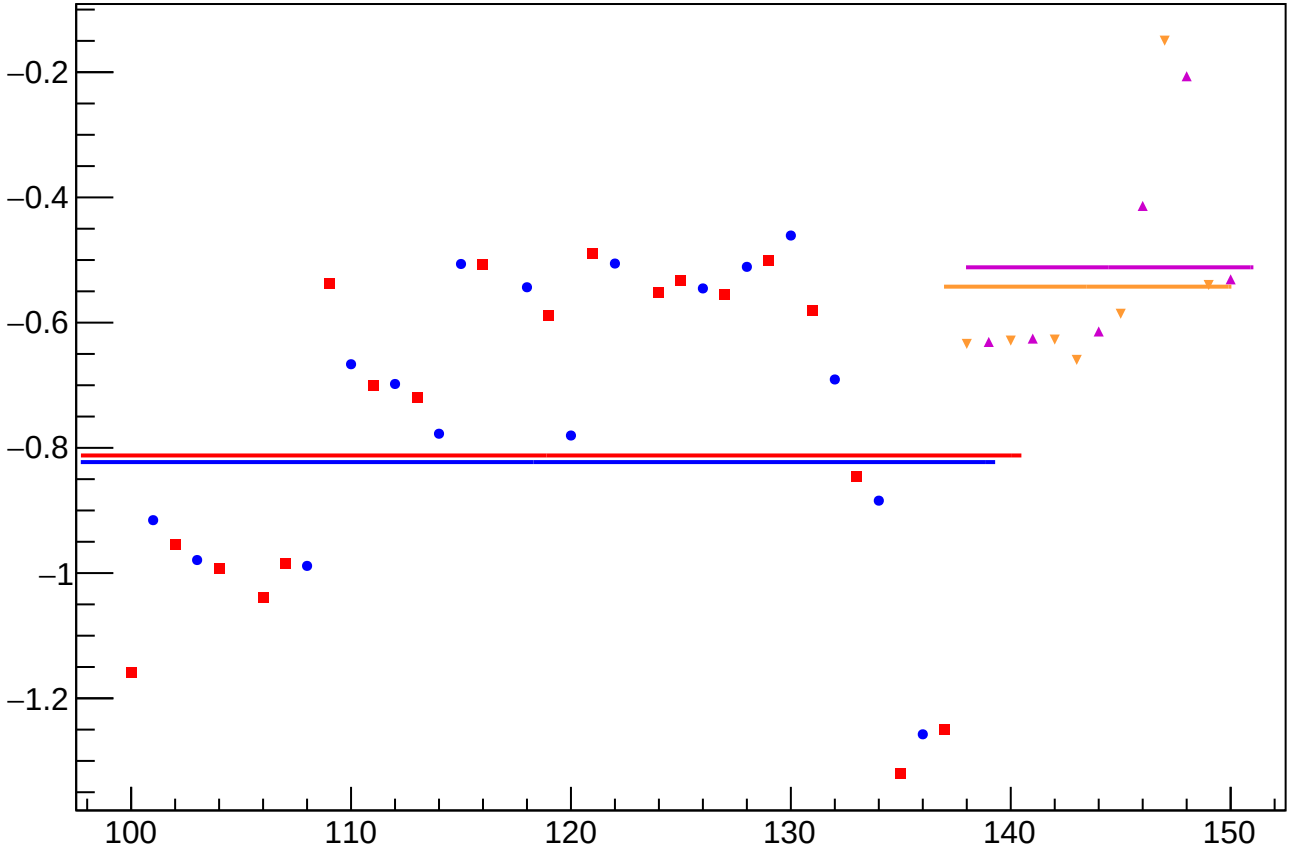
Right: 0.006+/-0.000 $\chi^2$/NDF: 1234142.9/34

In: 0.005+/-0.000 $\chi^2$/NDF:1614859.1/21

Out: 0.005+/-0.000 $\chi^2$/NDF:1413478.5/25

All: 0.005+/-0.000 $\chi^2$/NDF: 3039593.8/47

# yield_bpm0i07X_mean vs Slug, Sign Corrected




Right In: -0.823+/-0.000 $\chi^2$/NDF: 12226599844.5/15

Left Out: -0.543+/-0.000 $\chi^2$/NDF:3479788116.3/6

Right Out: -0.812+/-0.000 $\chi^2$/NDF: 14825441332.4/18

Left In: -0.512+/-0.000 $\chi^2$/NDF:2539421124.0/5

Left: -0.527+/-0.000 $\chi^2$/NDF: 6078901725.4/12

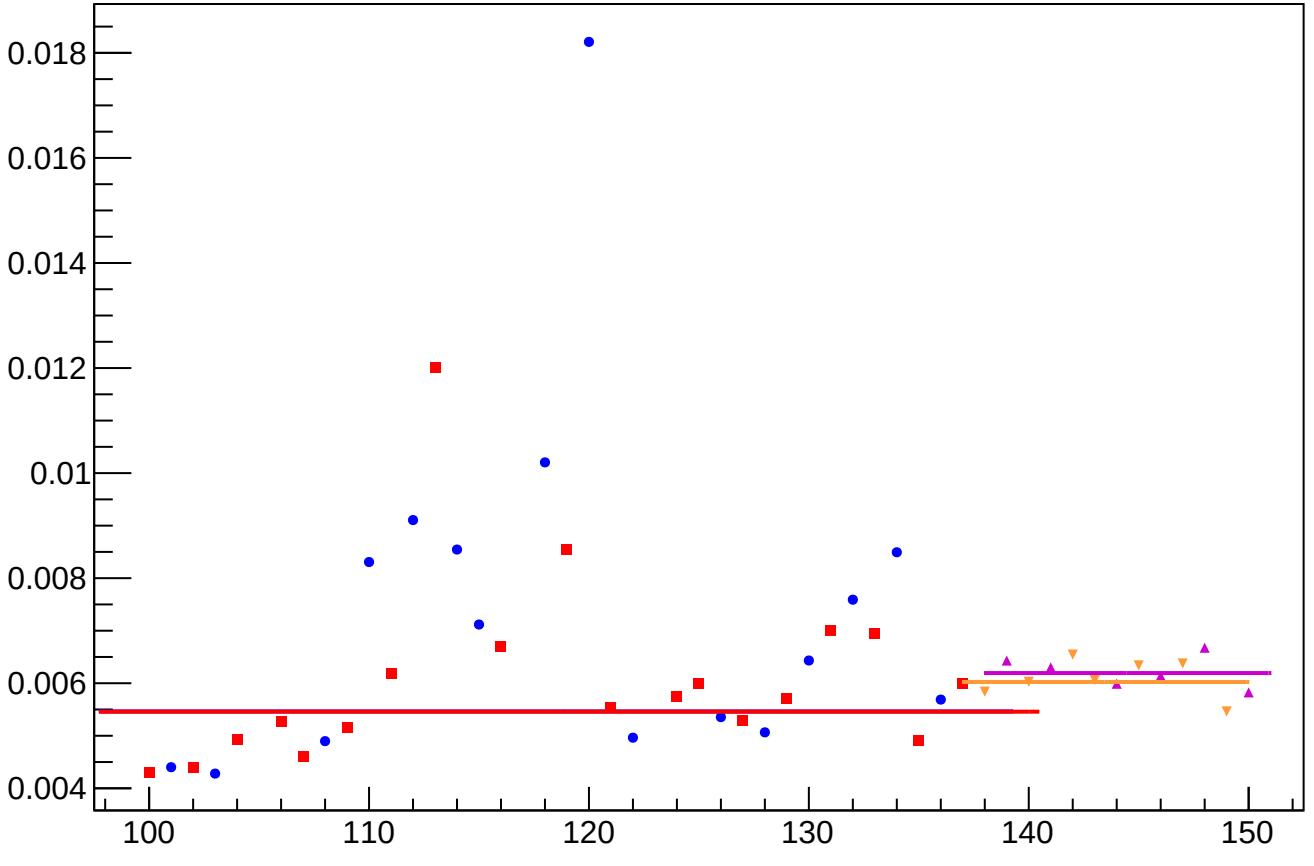
Right: -0.817+/-0.000 $\chi^2$/NDF: 27062819602.4/34

In: -0.699+/-0.000 $\chi^2$/NDF:21879531636.7/21

Out: -0.707+/-0.000 $\chi^2$/NDF:24003868772.6/25

All: -0.703+/-0.000 $\chi^2$/NDF: 45894781905.4/

# yield_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 961483.6/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:30268.2/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 507792.7/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:18913.3/5

Left: 0.006+/-0.000 $\chi^2$/NDF: 52785.2/12

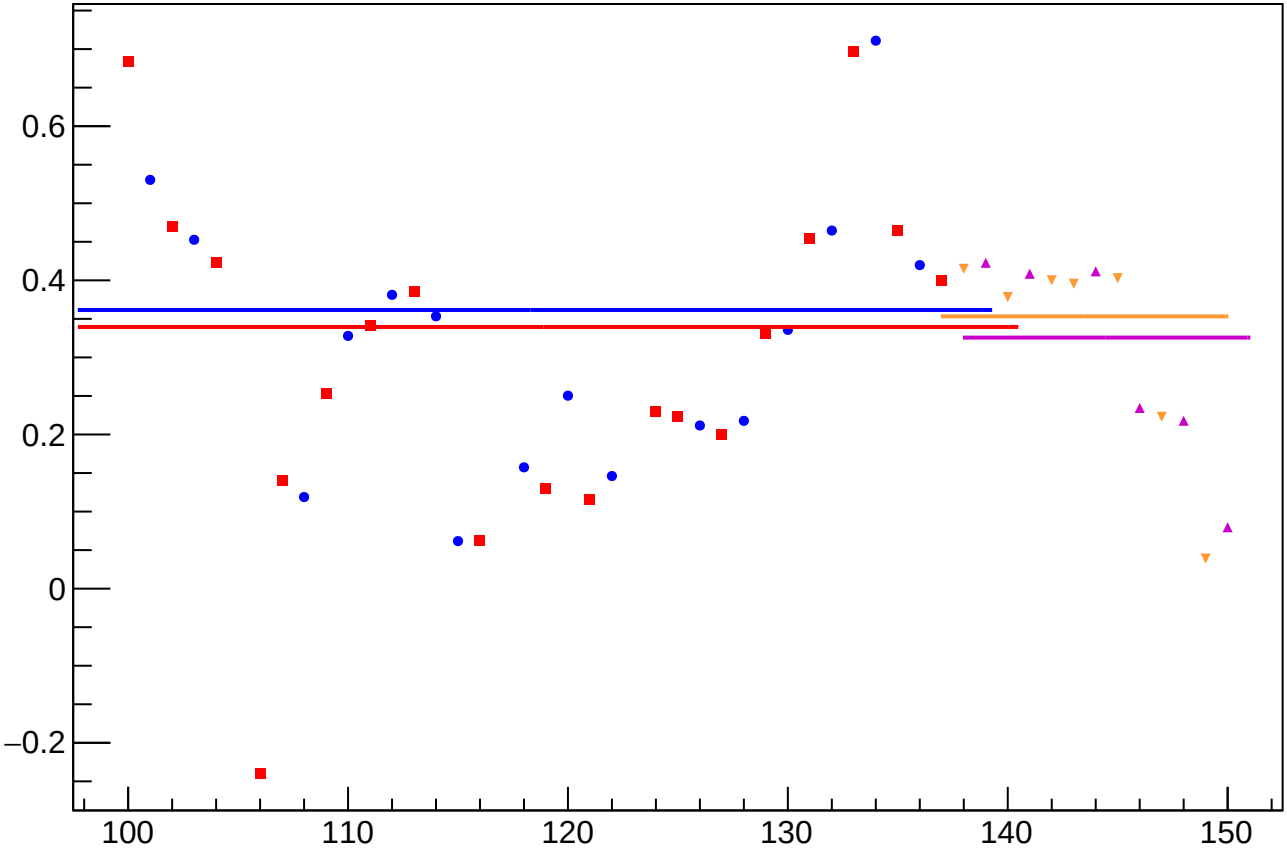
Right: 0.005+/-0.000 $\chi^2$/NDF: 1469281.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:1058868.8/21

Out: 0.006+/-0.000 $\chi^2$/NDF:588254.8/25

All: 0.006+/-0.000 $\chi^2$/NDF: 1648952.5/47

# yield_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 0.362+/-0.000 $\chi^2$/NDF: 8775952187.9/15

Left Out: 0.353+/-0.000 $\chi^2$/NDF:2467164760.2/6

Right Out: 0.339+/-0.000 $\chi^2$/NDF: 12071802789.9/18

Left In: 0.326+/-0.000 $\chi^2$/NDF:2673351380.7/5

Left: 0.340+/-0.000 $\chi^2$/NDF: 5224153263.1/12

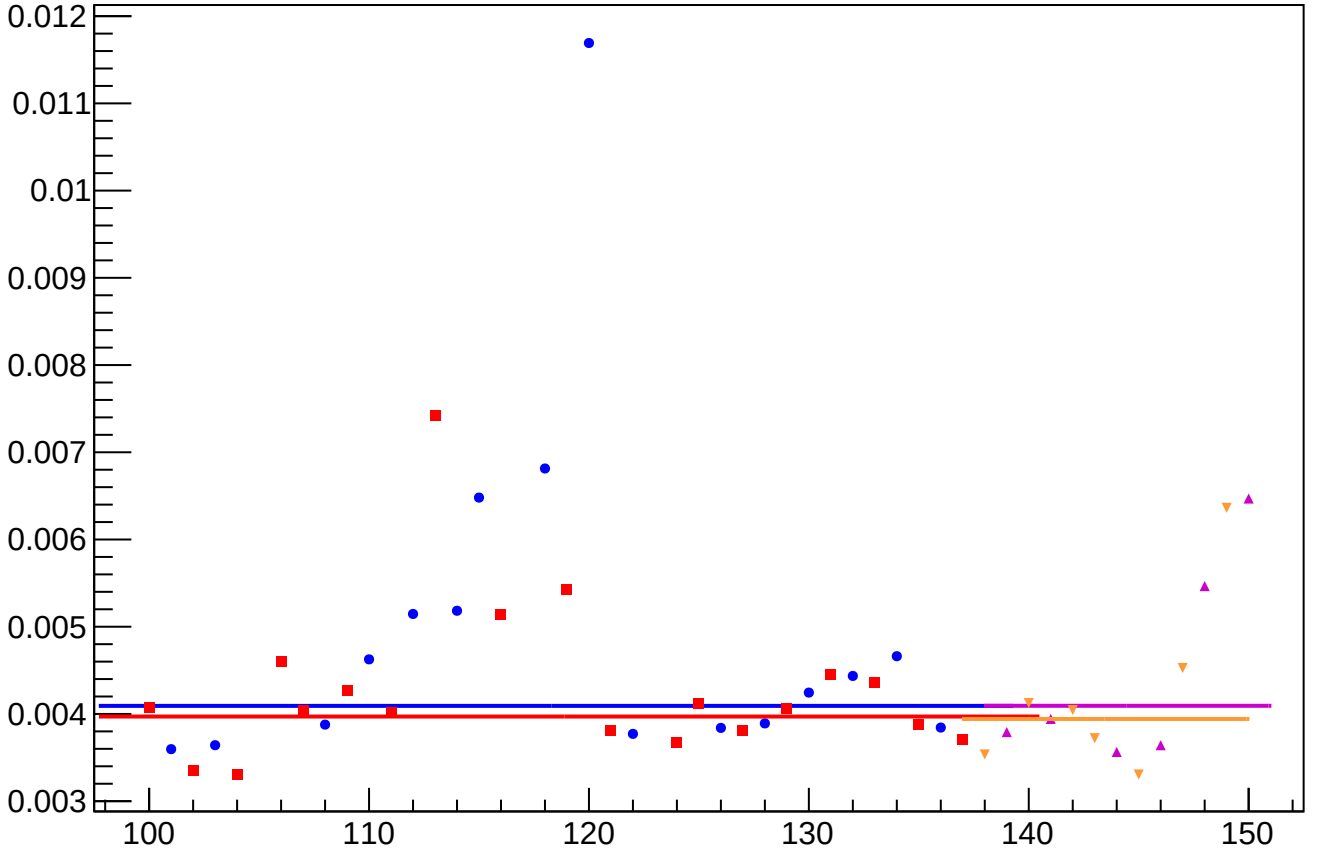
Right: 0.350+/-0.000 $\chi^2$/NDF: 20941665635.5/34

In: 0.348+/-0.000 $\chi^2$/NDF:11622522202.7/21

Out: 0.344+/-0.000 $\chi^2$/NDF:14566657788.3/25

All: 0.346+/-0.000 $\chi^2$/NDF: 26193833613.7/4

# yield_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 491748.3/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:271479.1/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 313701.1/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:325089.8/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 601620.6/12

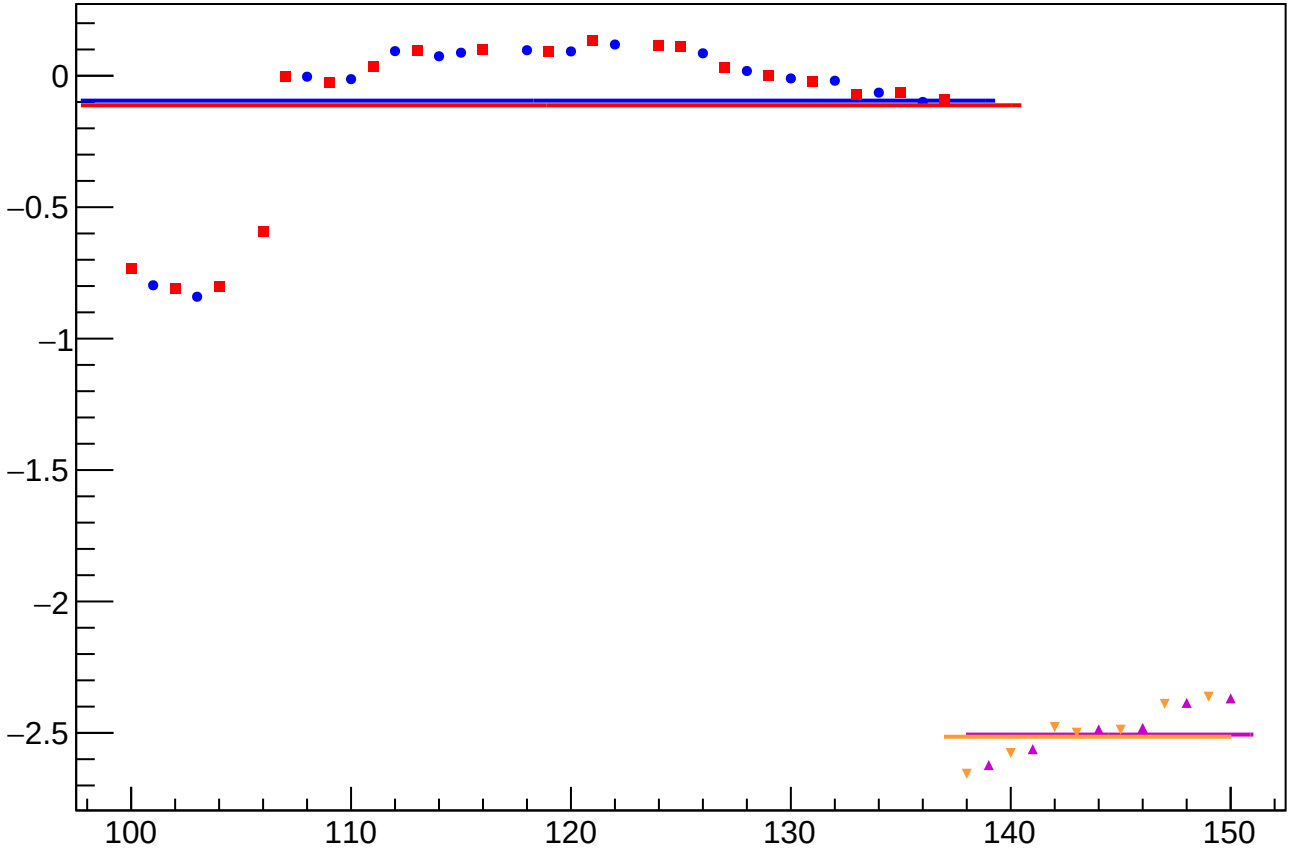
Right: 0.004+/-0.000 $\chi^2$/NDF: 811192.6/34

In: 0.004+/-0.000 $\chi^2$/NDF:816838.5/21

Out: 0.004+/-0.000 $\chi^2$/NDF:585408.5/25

All: 0.004+/-0.000 $\chi^2$/NDF: 1412906.2/47

# yield_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.000 $\chi^2$/NDF: 5489721985.1/15

Left Out: -2.514+/-0.000 $\chi^2$/NDF:202972500.2/6

Right Out: -0.112+/-0.000 $\chi^2$/NDF: 6190163375.6/18

Left In: -2.506+/-0.000 $\chi^2$/NDF:158902530.6/5

Left: -2.511+/-0.000 $\chi^2$/NDF: 362615690.2/12

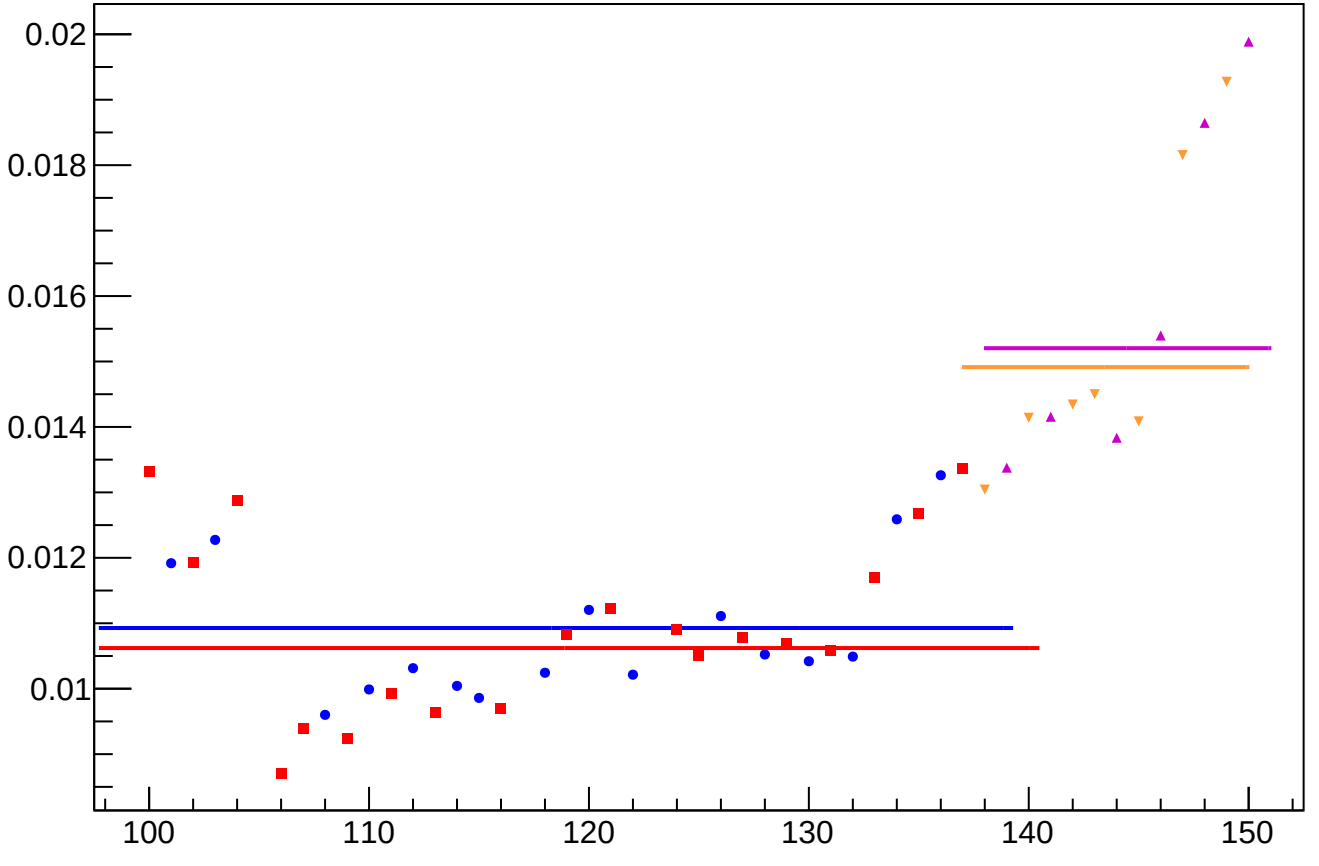
Right: -0.104+/-0.000 $\chi^2$/NDF: 11689577002.2/34

In: -0.748+/-0.000 $\chi^2$/NDF:99704668469.3/21

Out: -0.746+/-0.000 $\chi^2$/NDF:105929689854.9/25

All: -0.747+/-0.000 $\chi^2$/NDF: 205634541070.4

# yield_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 136478.1/15

Left Out: 0.015+/-0.000 $\chi^2$/NDF:182201.3/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 190526.1/18

Left In: 0.015+/-0.000 $\chi^2$/NDF:214835.3/5

Left: 0.015+/-0.000 $\chi^2$/NDF: 398944.7/12

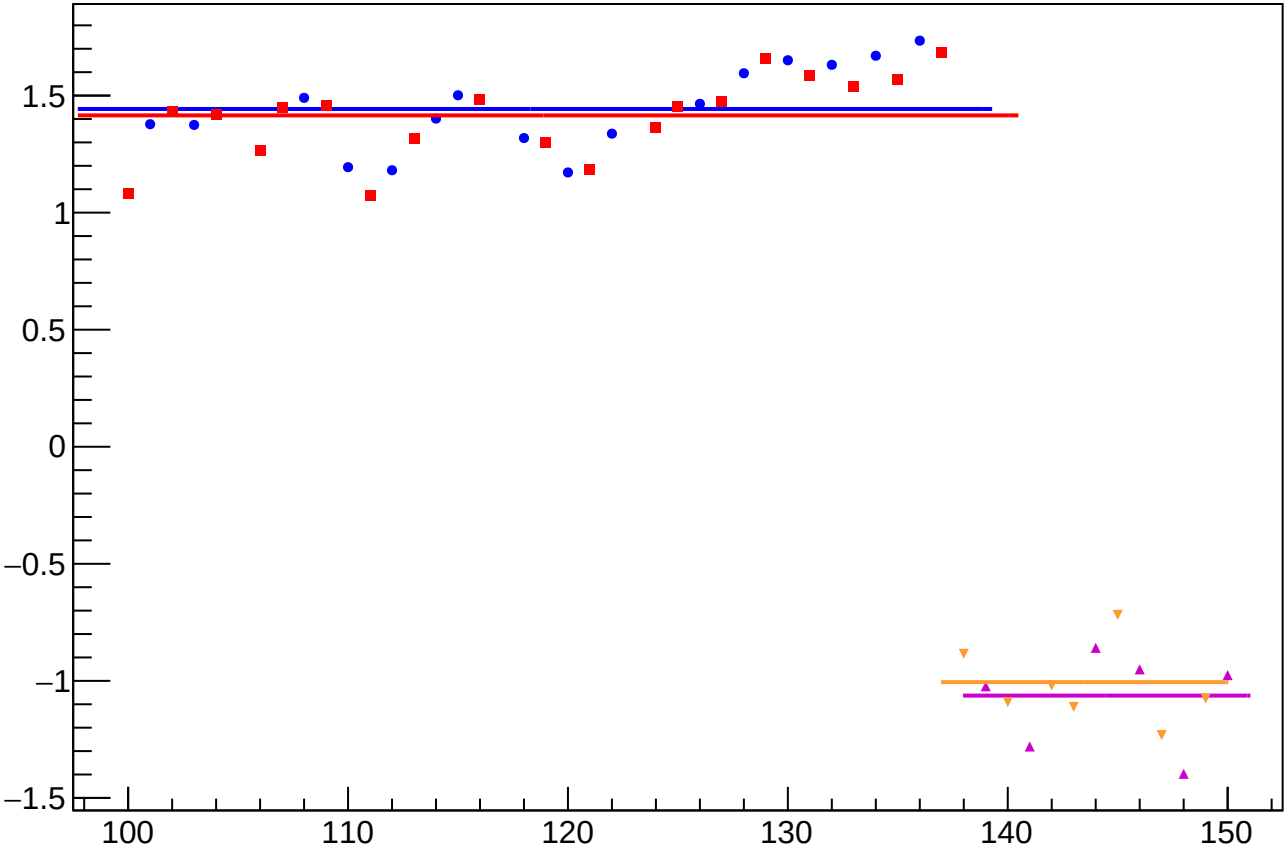
Right: 0.011+/-0.000 $\chi^2$/NDF: 332847.6/34

In: 0.012+/-0.000 $\chi^2$/NDF:942575.0/21

Out: 0.012+/-0.000 $\chi^2$/NDF:1008391.6/25

All: 0.012+/-0.000 $\chi^2$/NDF: 1960360.7/47

# yield_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: 1.443+/-0.000 $\chi^2$/NDF: 3739724691.1/15

Left Out: -1.006+/-0.000 $\chi^2$/NDF:1178071023.9/6

Right Out: 1.415+/-0.000 $\chi^2$/NDF: 2803466123.0/18

Left In: -1.063+/-0.000 $\chi^2$/NDF:1428201878.7/5

Left: -1.034+/-0.000 $\chi^2$/NDF: 2678523384.2/12

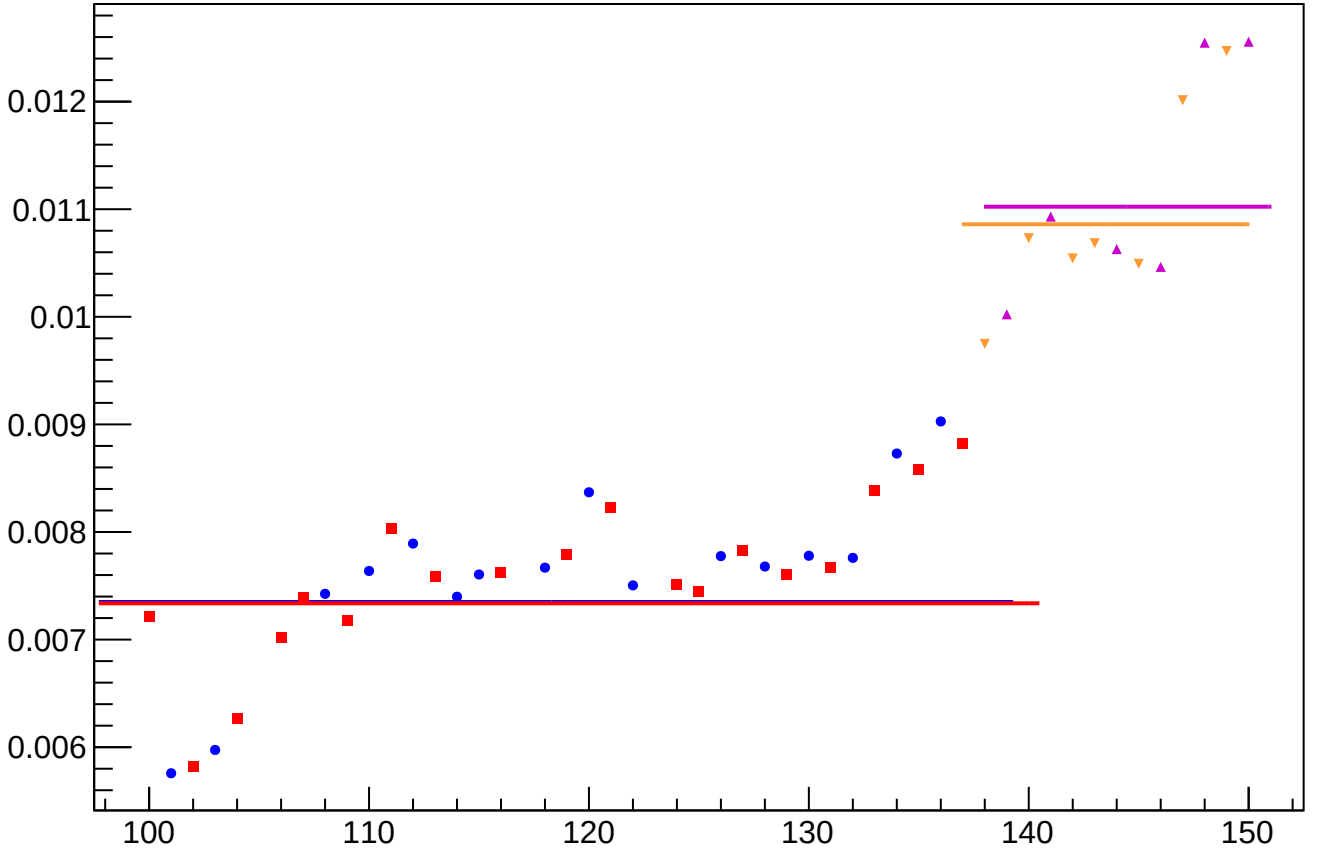
Right: 1.429+/-0.000 $\chi^2$/NDF: 6593016759.0/34

In: 0.825+/-0.000 $\chi^2$/NDF:207805958093.1/21

Out: 0.817+/-0.000 $\chi^2$/NDF:202326079718.9/25

All: 0.821+/-0.000 $\chi^2$/NDF: 410136946302.2

# yield_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 270864.2/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:66645.7/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 195372.6/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:75797.7/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 143616.2/12

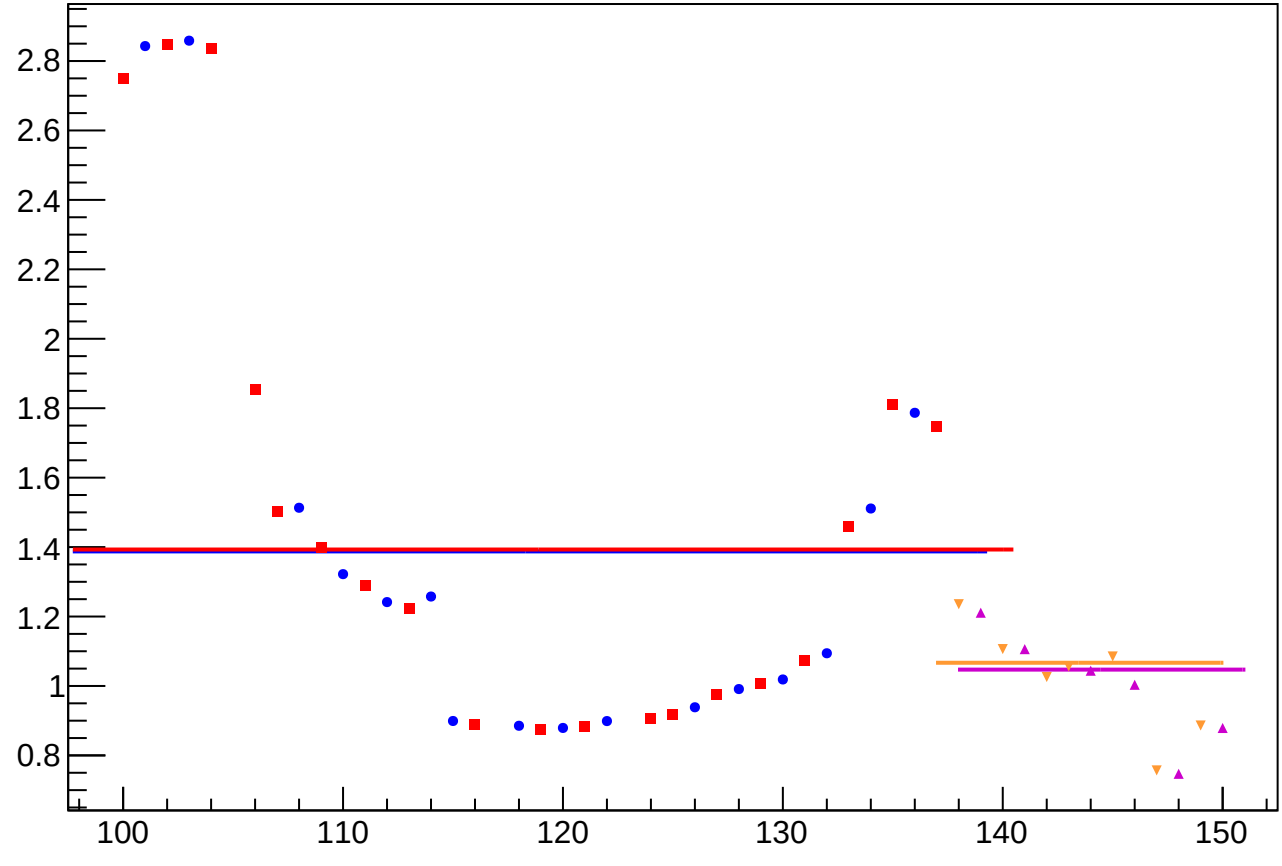
Right: 0.007+/-0.000 $\chi^2$/NDF: 466255.6/34

In: 0.008+/-0.000 $\chi^2$/NDF:1218004.2/21

Out: 0.008+/-0.000 $\chi^2$/NDF:1101744.7/25

All: 0.008+/-0.000 $\chi^2$/NDF: 2320154.1/47

# yield_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 1.388+/-0.000 $\chi^2$/NDF: 58612635453.0/15

Left Out: 1.067+/-0.000 $\chi^2$/NDF:1116678371.5/6

Right Out: 1.393+/-0.000 $\chi^2$/NDF: 55365724659.7/18

Left In: 1.047+/-0.000 $\chi^2$/NDF:1124506947.8/5

Left: 1.057+/-0.000 $\chi^2$/NDF: 2252776252.0/12

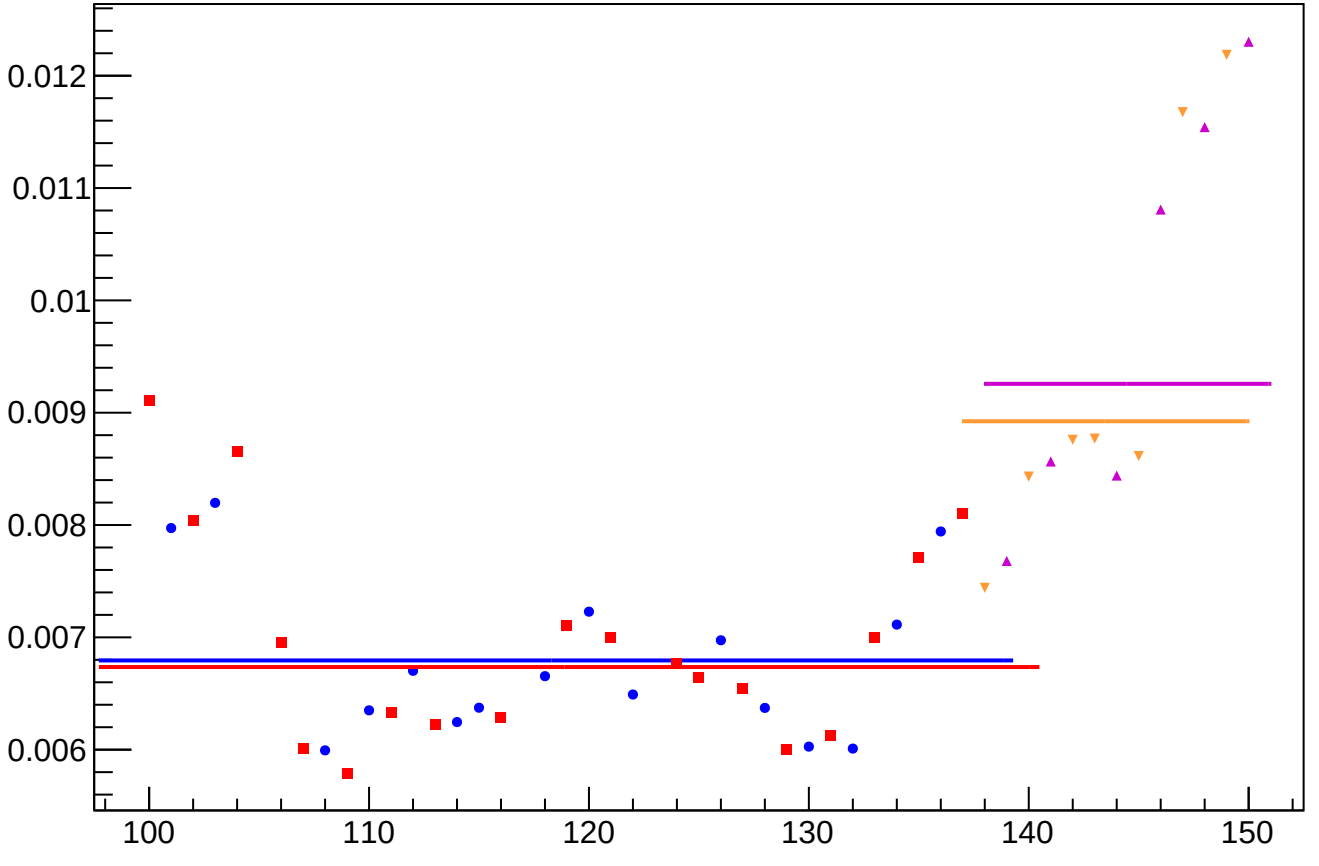
Right: 1.390+/-0.000 $\chi^2$/NDF: 113980694957.7/34

In: 1.296+/-0.000 $\chi^2$/NDF:64531815498.1/21

Out: 1.302+/-0.000 $\chi^2$/NDF:61270771401.8/25

All: 1.299+/-0.000 $\chi^2$/NDF: 125807061941.5

# yield_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 164456.7/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:261716.1/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 198492.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:294590.2/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 562889.3/12

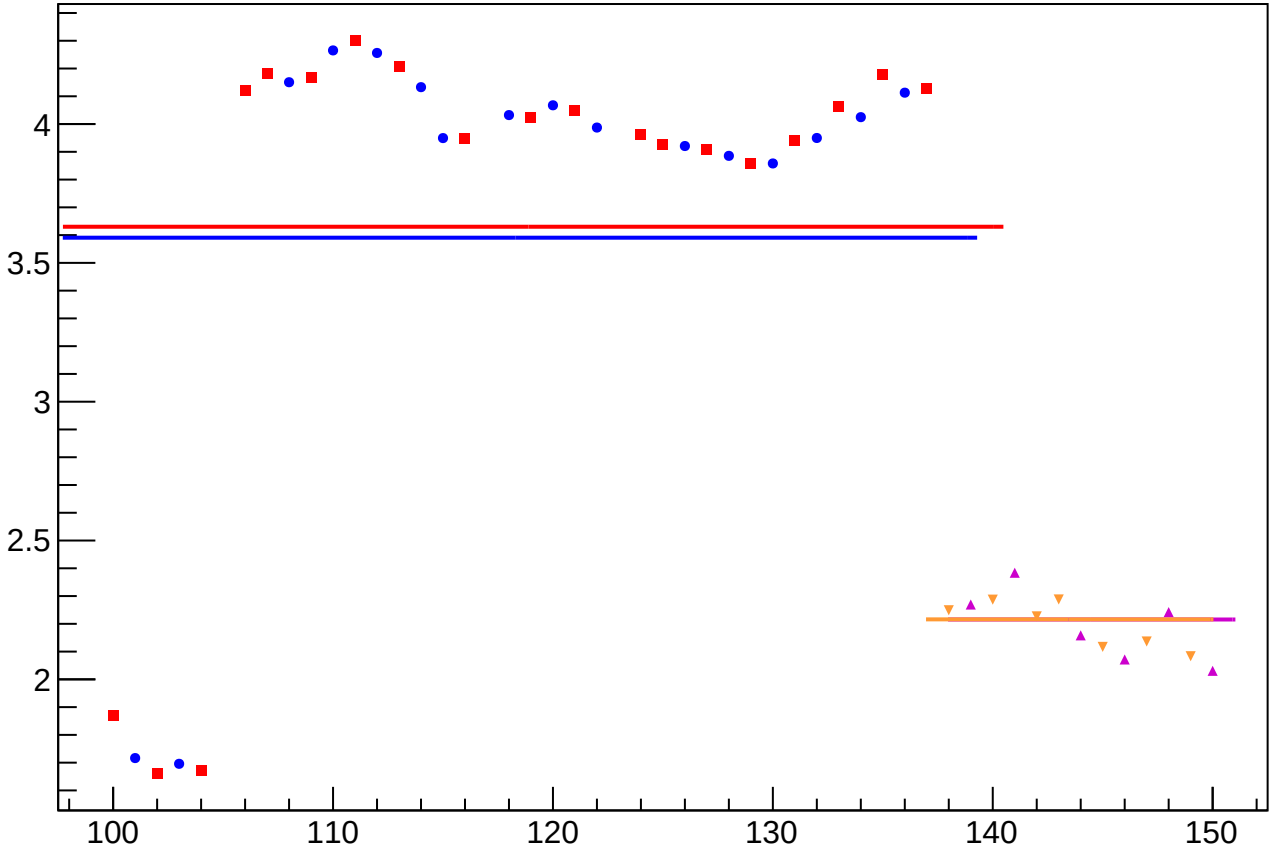
Right: 0.007+/-0.000 $\chi^2$/NDF: 363493.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:960636.7/21

Out: 0.007+/-0.000 $\chi^2$/NDF:891220.9/25

All: 0.007+/-0.000 $\chi^2$/NDF: 1854642.4/47

# yield_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 3.591+/-0.000 $\chi^2$/NDF: 202184644473.7/15

Left Out: 2.216+/-0.000 $\chi^2$/NDF:462908050.0/6

Right Out: 3.630+/-0.000 $\chi^2$/NDF: 212588390342.3/18

Left In: 2.216+/-0.000 $\chi^2$/NDF:988998103.0/5

Left: 2.216+/-0.000 $\chi^2$/NDF: 1451914992.3/12

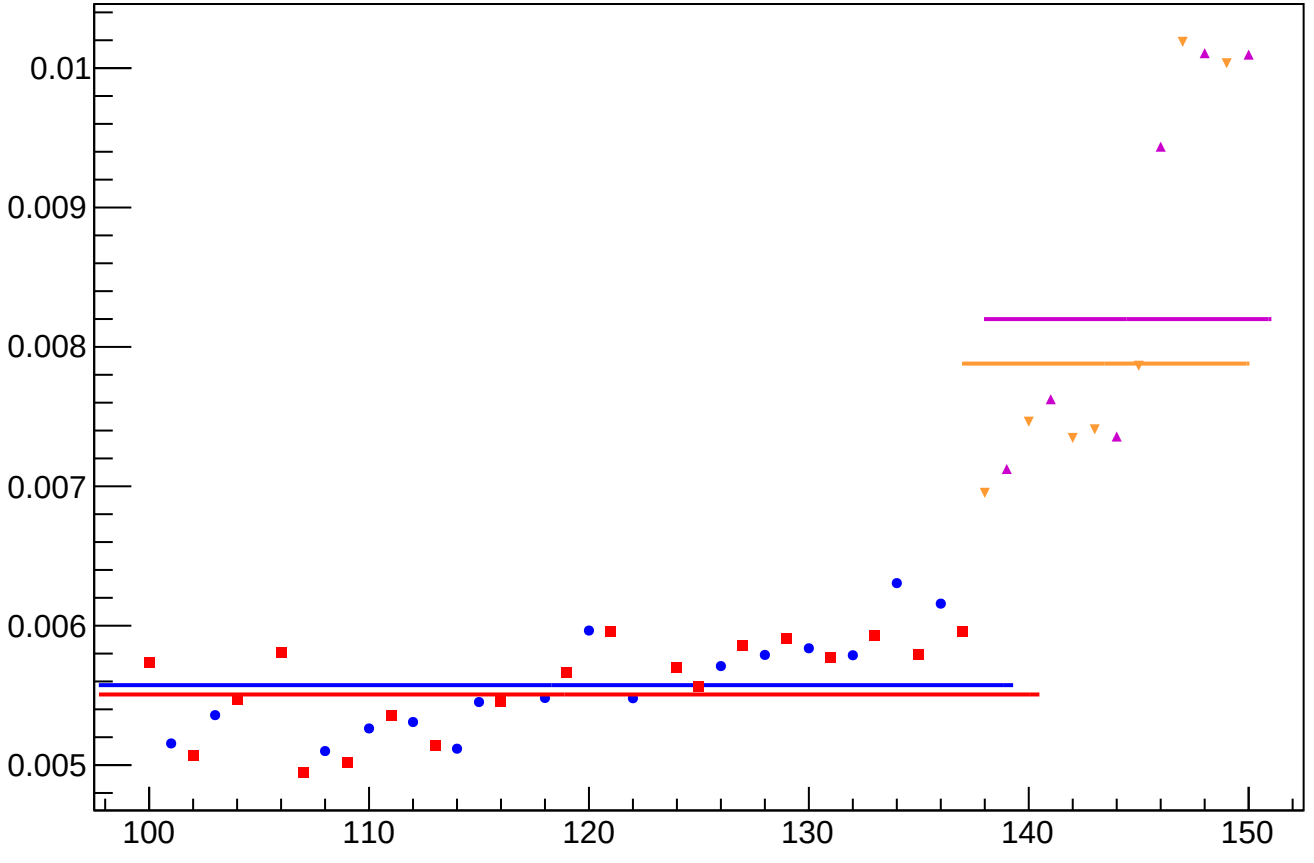
Right: 3.611+/-0.000 $\chi^2$/NDF: 414956393826.7/34

In: 3.264+/-0.000 $\chi^2$/NDF:306942385193.8/21

Out: 3.278+/-0.000 $\chi^2$/NDF:332981620717.7/25

All: 3.271+/-0.000 $\chi^2$/NDF: 639955930295.2

# yield_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 59130.1/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:187848.3/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 57427.9/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:209878.9/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 405439.6/12

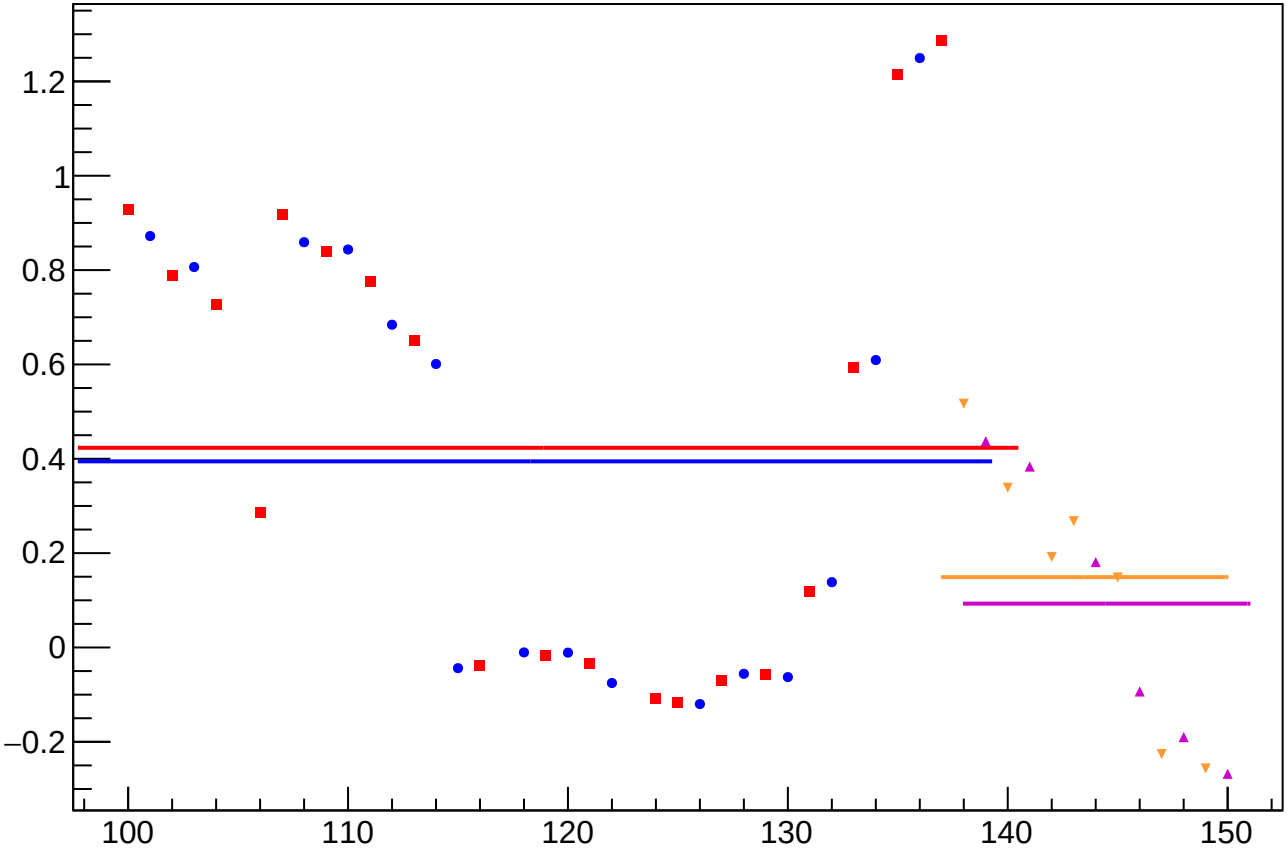
Right: 0.006+/-0.000 $\chi^2$/NDF: 117612.2/34

In: 0.006+/-0.000 $\chi^2$/NDF:1025820.5/21

Out: 0.006+/-0.000 $\chi^2$/NDF:921148.4/25

All: 0.006+/-0.000 $\chi^2$/NDF: 1950099.2/47

# yield_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 0.395+/-0.000 $\chi^2$/NDF: 7412548044.8/15

Left Out: 0.149+/-0.000 $\chi^2$/NDF:1387829301.6/6

Right Out: 0.423+/-0.000 $\chi^2$/NDF: 6904060515.1/18

Left In: 0.093+/-0.000 $\chi^2$/NDF:1360008429.7/5

Left: 0.121+/-0.000 $\chi^2$/NDF: 2778203030.7/12

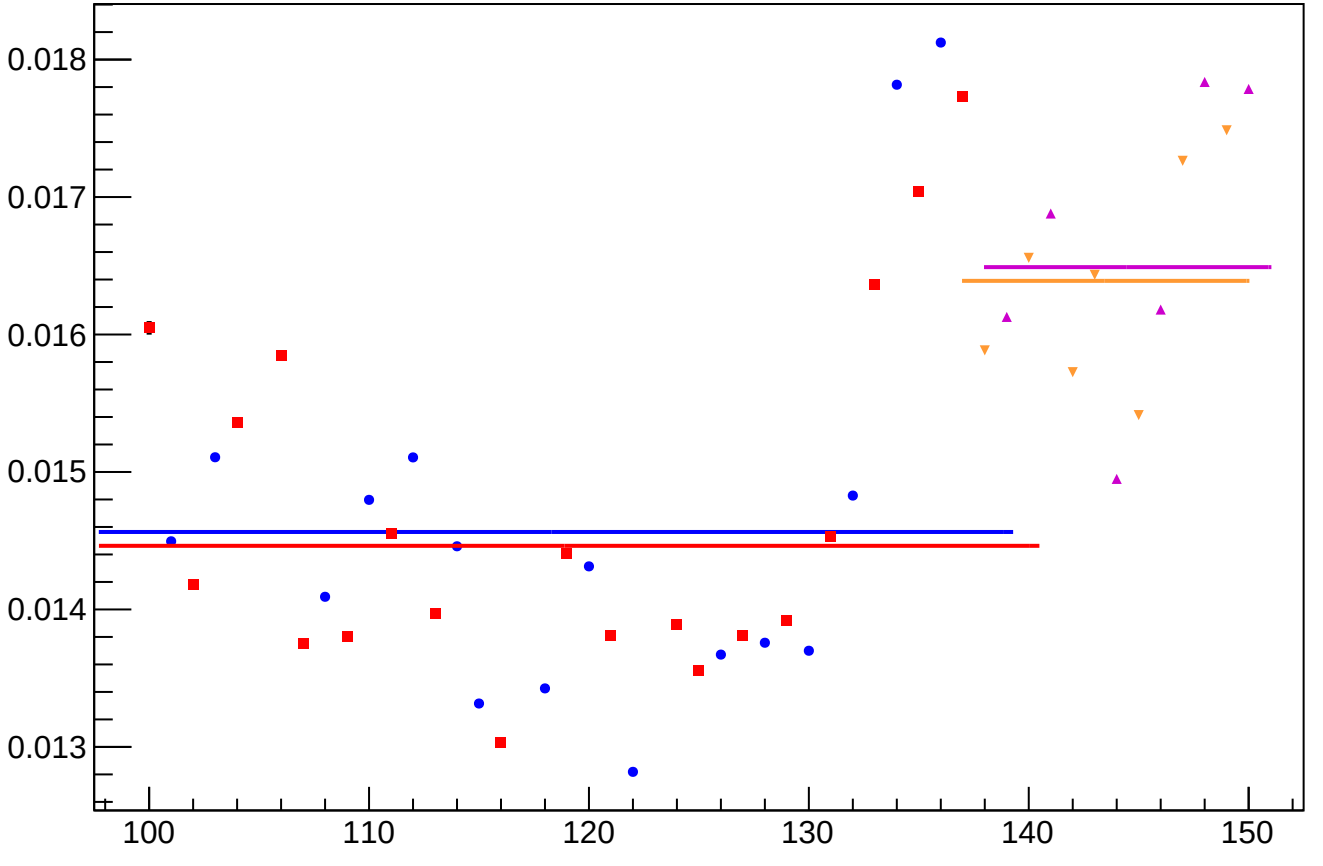
Right: 0.409+/-0.000 $\chi^2$/NDF: 14330729641.2/34

In: 0.285+/-0.000 $\chi^2$/NDF:9874706274.5/21

Out: 0.325+/-0.000 $\chi^2$/NDF:9234064972.2/25

All: 0.305+/-0.000 $\chi^2$/NDF: 19150112820.2/4

# yield_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 133134.7/15

Left Out: 0.016+/-0.000 $\chi^2$/NDF:20273.0/6

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 77396.3/18

Left In: 0.016+/-0.000 $\chi^2$/NDF:40097.9/5

Left: 0.016+/-0.000 $\chi^2$/NDF: 60563.2/12

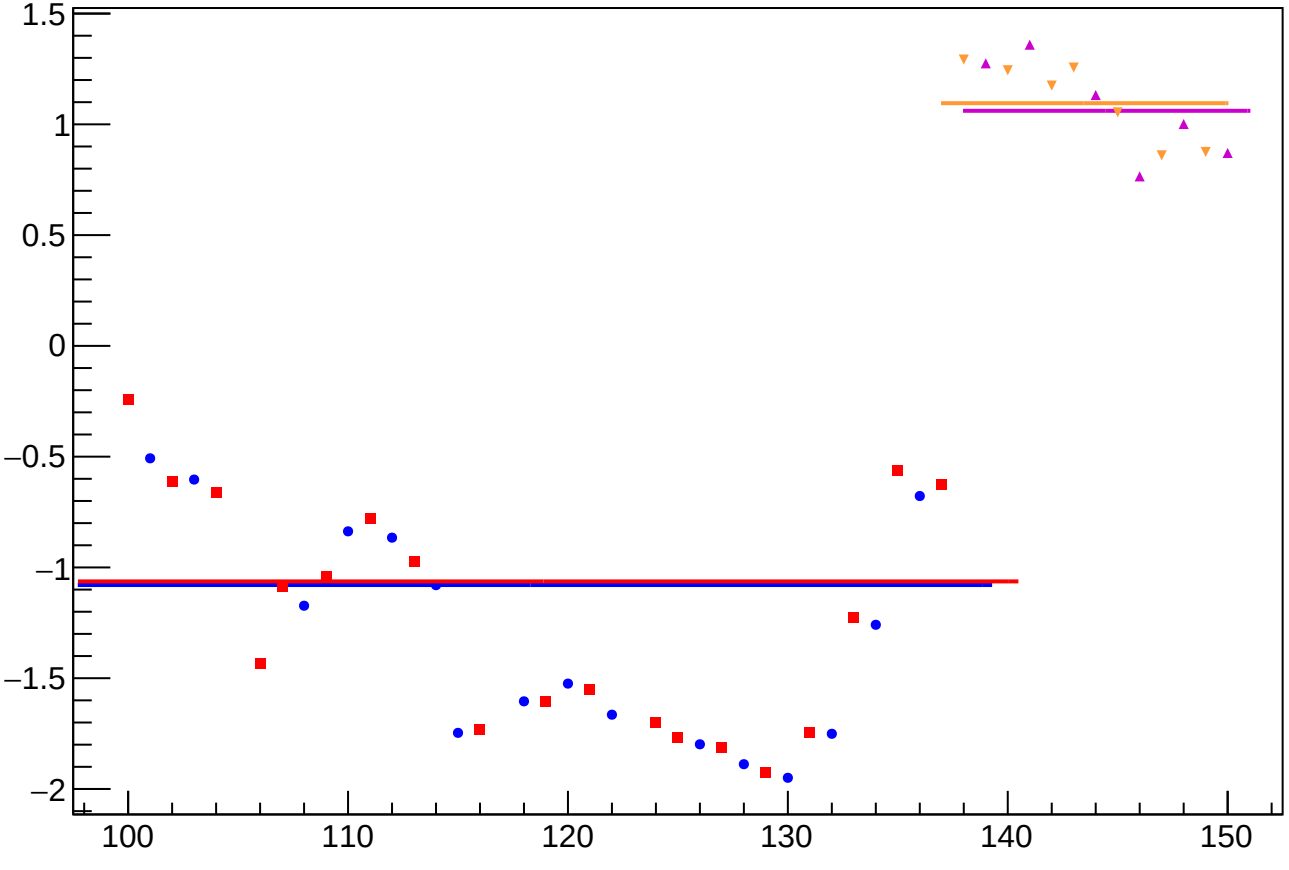
Right: 0.015+/-0.000 $\chi^2$/NDF: 210877.4/34

In: 0.015+/-0.000 $\chi^2$/NDF:263193.6/21

Out: 0.015+/-0.000 $\chi^2$/NDF:190766.3/25

All: 0.015+/-0.000 $\chi^2$/NDF: 454550.1/47

# yield_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: -1.079+/-0.000 $\chi^2$/NDF: 59756571764.5/15

Left Out: 1.095+/-0.000 $\chi^2$/NDF:10266262056.9/6

Right Out: -1.063+/-0.000 $\chi^2$/NDF: 49910403943.5/18

Left In: 1.061+/-0.000 $\chi^2$/NDF:12296206606.5/5

Left: 1.079+/-0.000 $\chi^2$/NDF: 22757541203.4/12

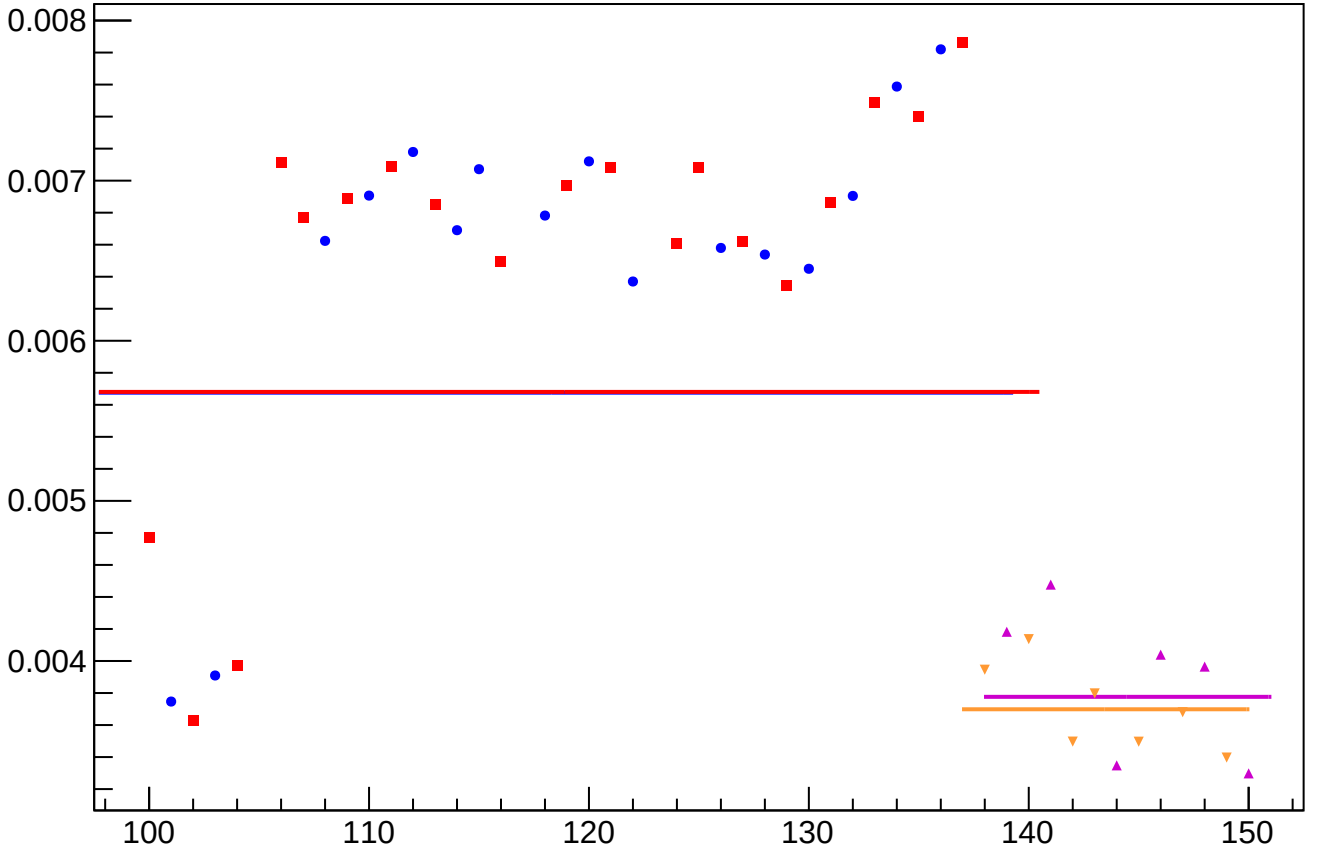
Right: -1.071+/-0.000 $\chi^2$/NDF: 109693375141.4/34

In: 0.237+/-0.000 $\chi^2$/NDF:628856152840.0/21

Out: 0.307+/-0.000 $\chi^2$/NDF:651150932154.3/25

All: 0.273+/-0.000 $\chi^2$/NDF: 1281310595564.

# yield_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 944822.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:43458.4/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 980583.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:124354.1/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 169808.0/12

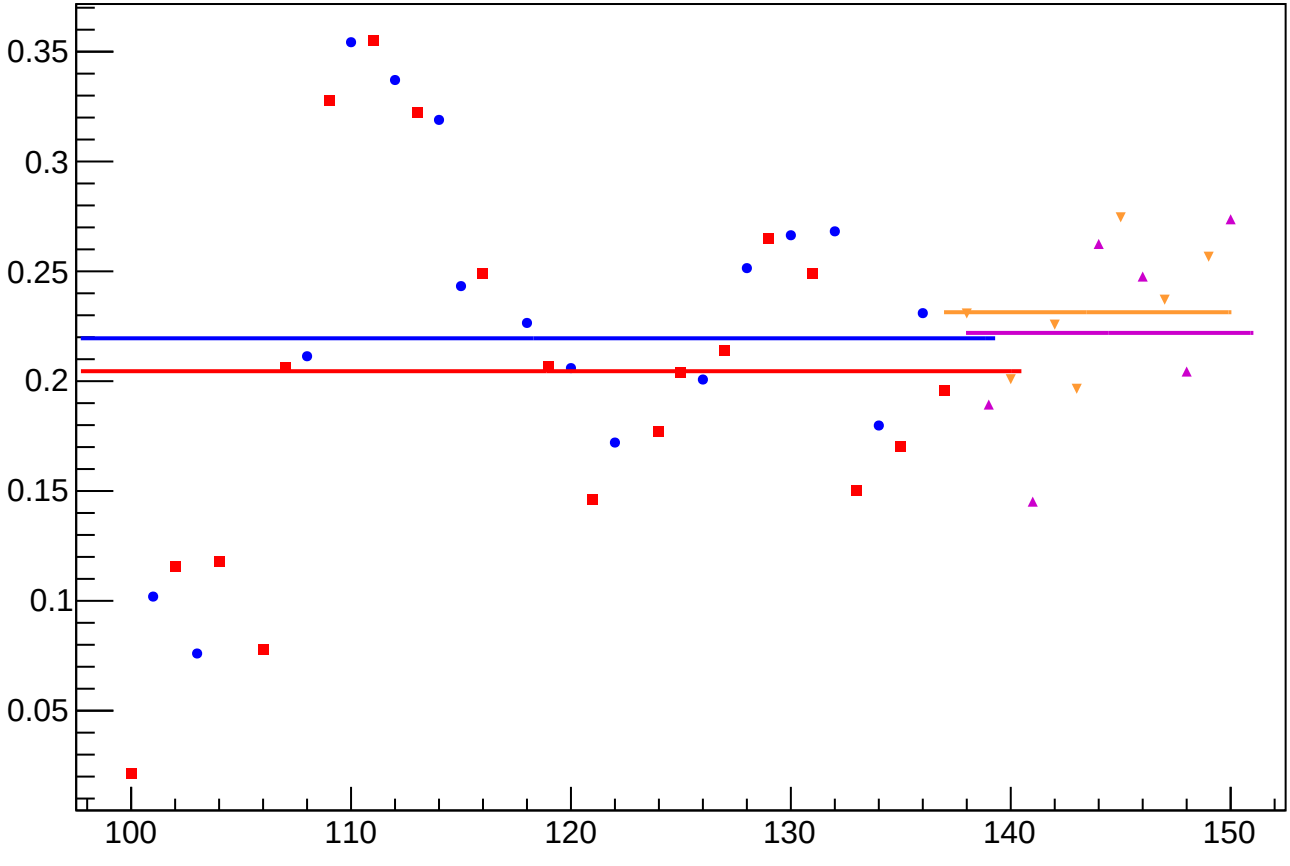
Right: 0.006+/-0.000 $\chi^2$/NDF: 1925411.0/34

In: 0.005+/-0.000 $\chi^2$/NDF:1946503.0/21

Out: 0.004+/-0.000 $\chi^2$/NDF:2020703.0/25

All: 0.004+/-0.000 $\chi^2$/NDF: 3971057.6/47

# yield_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 0.220+/-0.000 $\chi^2$/NDF: 16729743257.8/15

Left Out: 0.231+/-0.000 $\chi^2$/NDF:2002321653.3/6

Right Out: 0.205+/-0.000 $\chi^2$/NDF: 22312377506.1/18

Left In: 0.222+/-0.000 $\chi^2$/NDF:5406249404.9/5

Left: 0.227+/-0.000 $\chi^2$/NDF: 7523047960.7/12

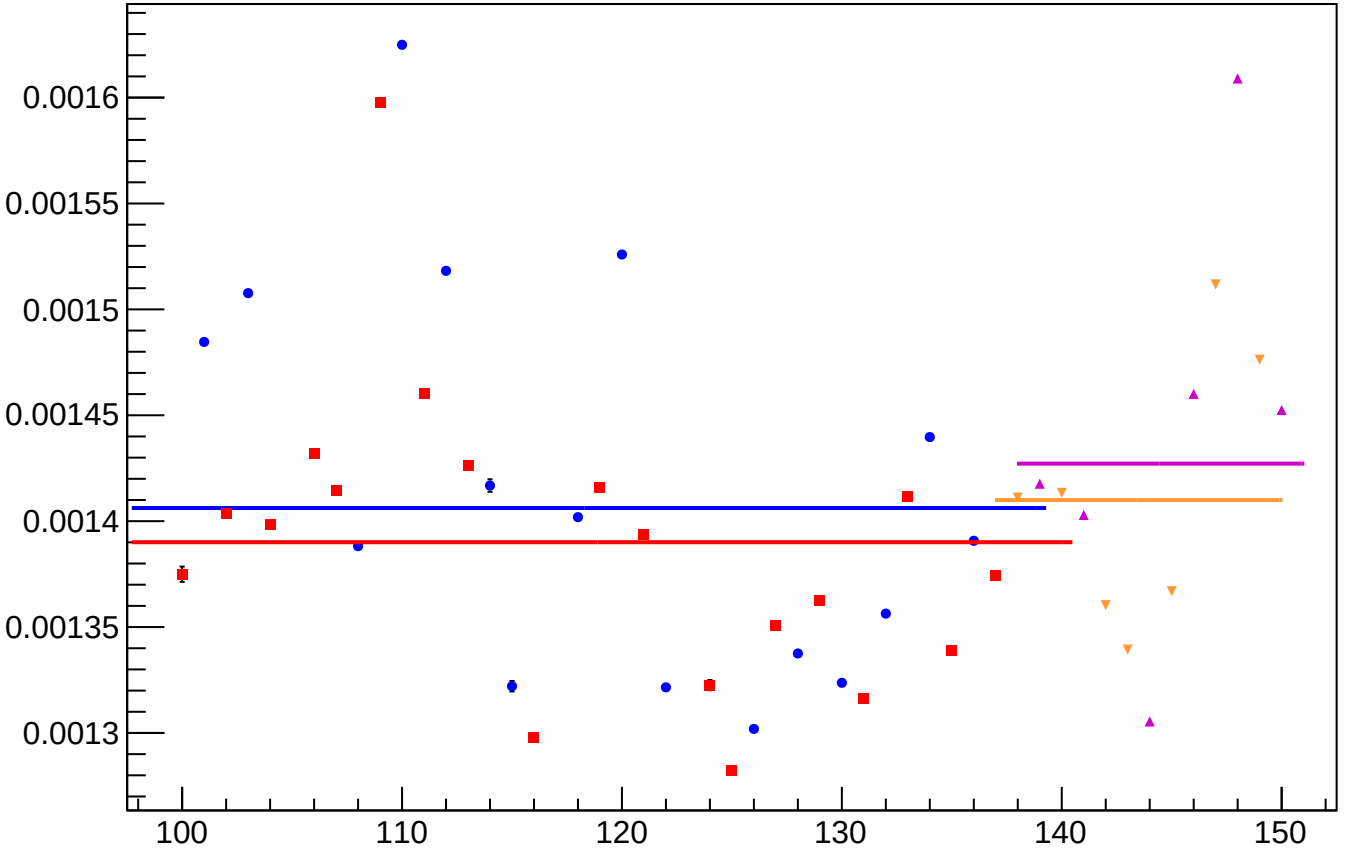
Right: 0.212+/-0.000 $\chi^2$/NDF: 39451425816.8/34

In: 0.221+/-0.000 $\chi^2$/NDF:22144817686.8/21

Out: 0.216+/-0.000 $\chi^2$/NDF:25439794758.6/25

All: 0.218+/-0.000 $\chi^2$/NDF: 47661422638.8/4

# yield_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 48200.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:17809.0/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 34786.9/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:37596.6/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 56170.9/12

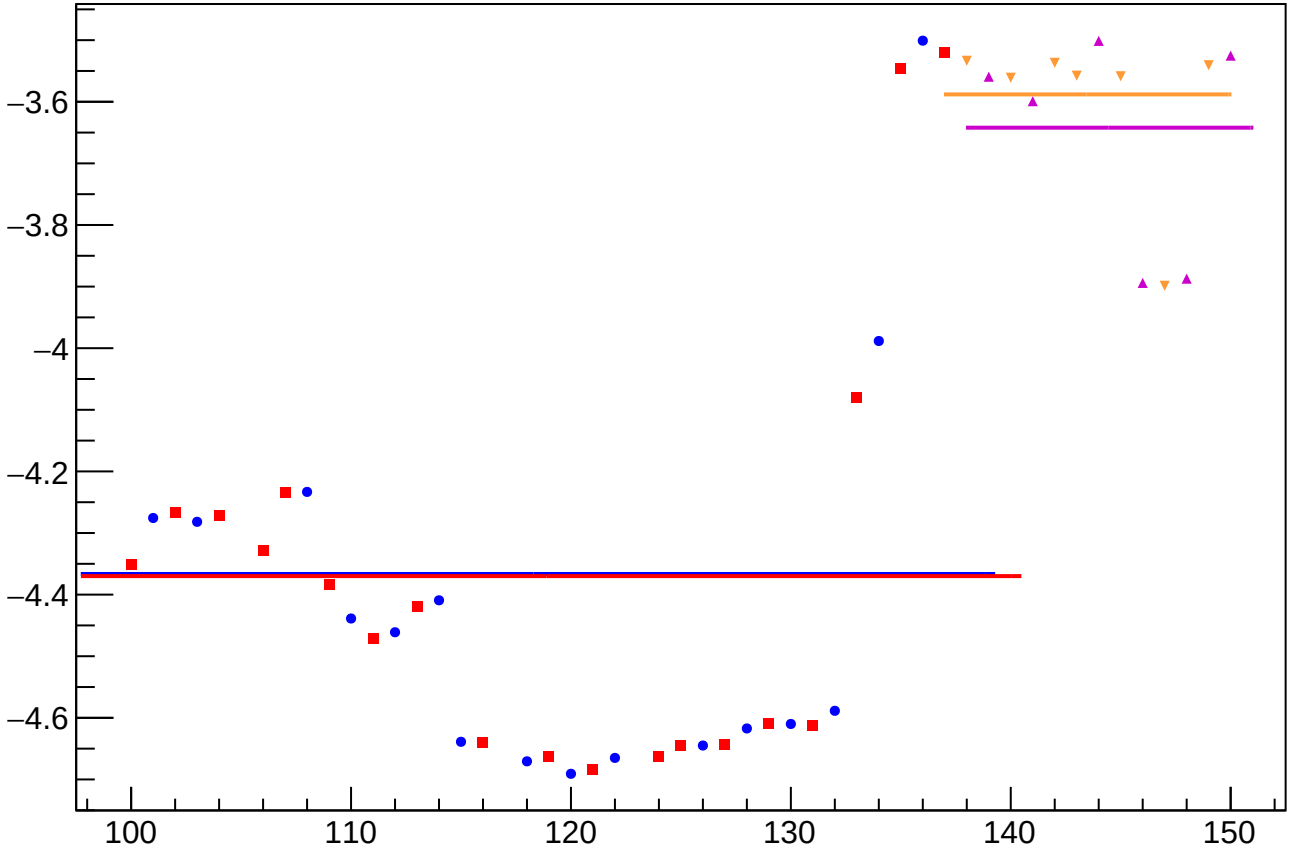
Right: 0.001+/-0.000 $\chi^2$/NDF: 83938.6/34

In: 0.001+/-0.000 $\chi^2$/NDF:87087.1/21

Out: 0.001+/-0.000 $\chi^2$/NDF:53832.9/25

All: 0.001+/-0.000 $\chi^2$/NDF: 142663.0/47

# yield_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: -4.367+/-0.000 $\chi^2$/NDF: 353013303743.6/15

Left Out: -3.588+/-0.000 $\chi^2$/NDF:17505232386.4/6

Right Out: -4.370+/-0.000 $\chi^2$/NDF: 296136368274.3/18

Left In: -3.642+/-0.000 $\chi^2$/NDF:32344239790.4/5

Left: -3.614+/-0.000 $\chi^2$/NDF: 51857843594.9/12

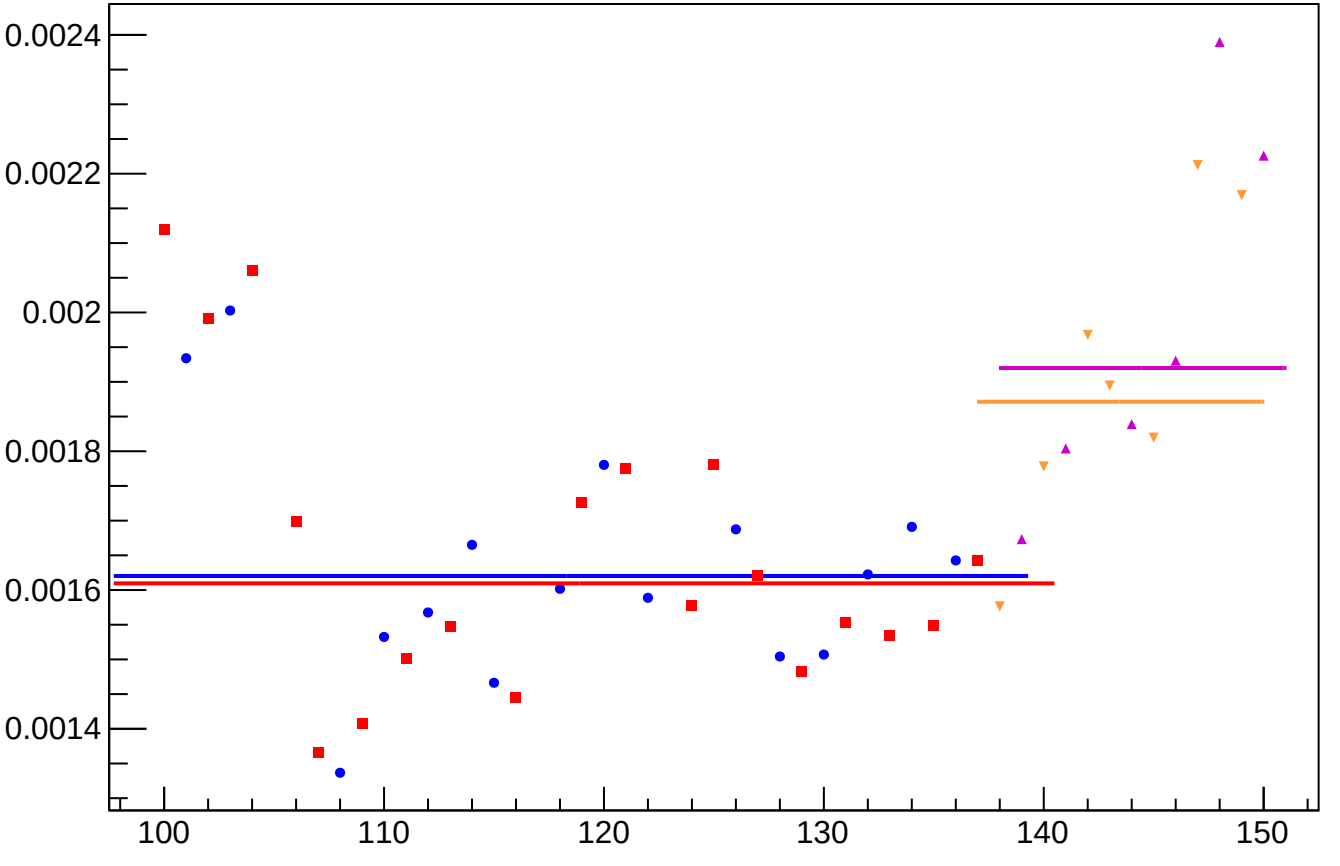
Right: -4.368+/-0.000 $\chi^2$/NDF: 649165512283.3/34

In: -4.122+/-0.000 $\chi^2$/NDF:849796500856.9/21

Out: -4.103+/-0.000 $\chi^2$/NDF:886440443604.2/25

All: -4.112+/-0.000 $\chi^2$/NDF: 1736920994819

# yield_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 140216.3/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:126163.4/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 184968.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:140217.6/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 269635.4/12

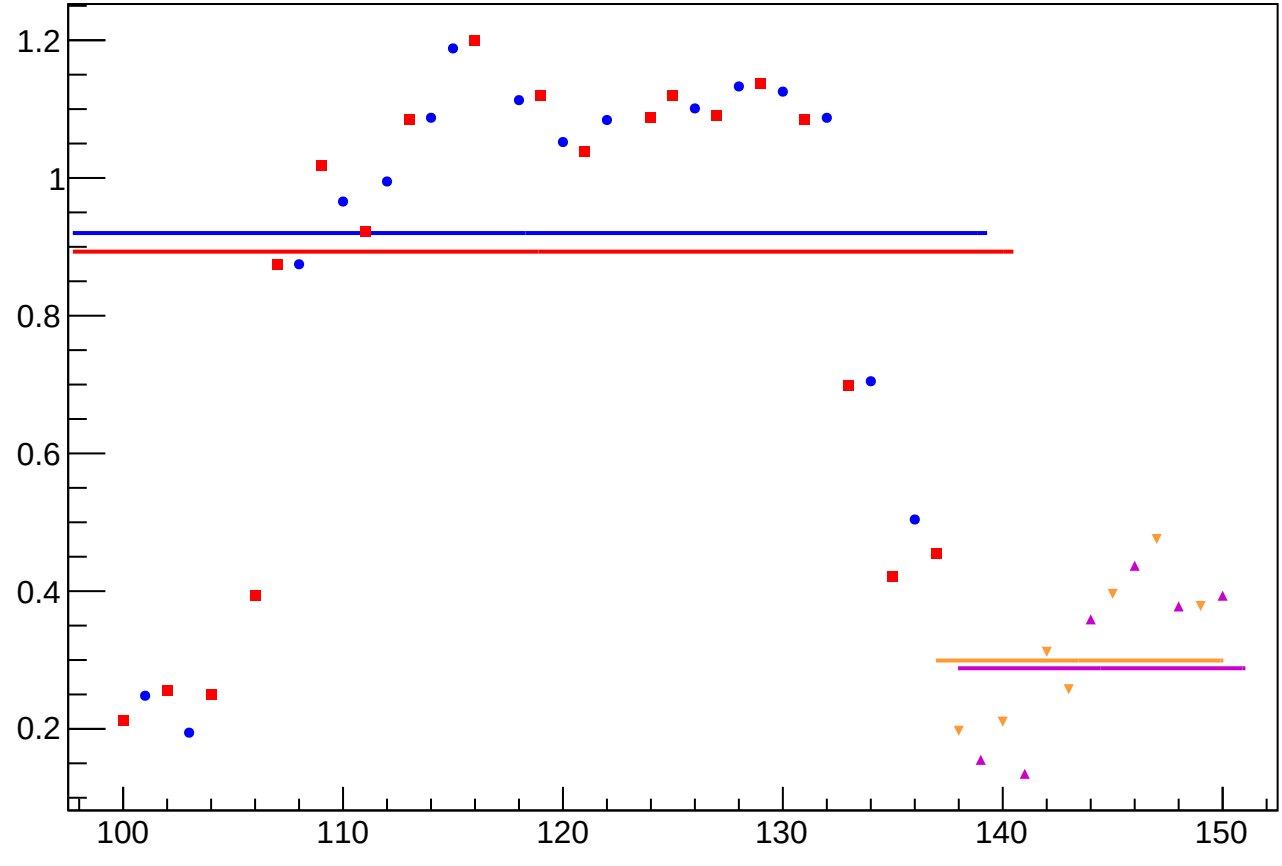
Right: 0.002+/-0.000 $\chi^2$/NDF: 325489.2/34

In: 0.002+/-0.000 $\chi^2$/NDF:439411.8/21

Out: 0.002+/-0.000 $\chi^2$/NDF:439543.3/25

All: 0.002+/-0.000 $\chi^2$/NDF: 881044.3/47

# yield_bpm2i02X_mean vs Slug, Sign Corrected




Right In: 0.920+/-0.000 $\chi^2$/NDF: 14566431727.4/15

Left Out: 0.299+/-0.000 $\chi^2$/NDF:554002553.4/6

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 17642154019.1/18

Left In: 0.288+/-0.000 $\chi^2$/NDF:863473597.6/5

Left: 0.294+/-0.000 $\chi^2$/NDF: 1421162304.3/12

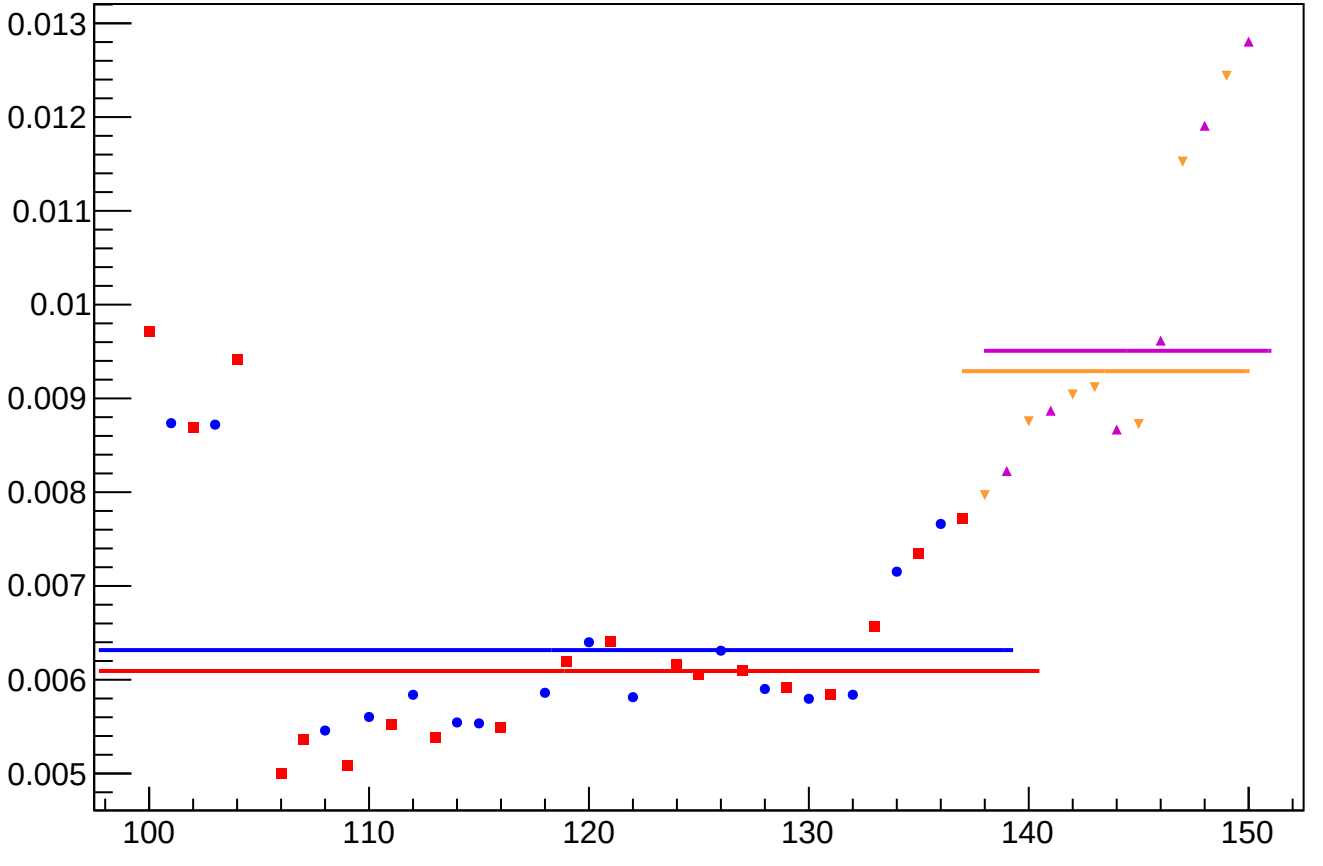
Right: 0.906+/-0.000 $\chi^2$/NDF: 32276058175.7/34

In: 0.766+/-0.000 $\chi^2$/NDF:32489777183.9/21

Out: 0.753+/-0.000 $\chi^2$/NDF:34400516409.8/25

All: 0.760+/-0.000 $\chi^2$/NDF: 66911199437.5/4

# yield_bpm2i02X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 335709.2/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:224496.6/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 435933.6/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:252863.8/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 480103.9/12

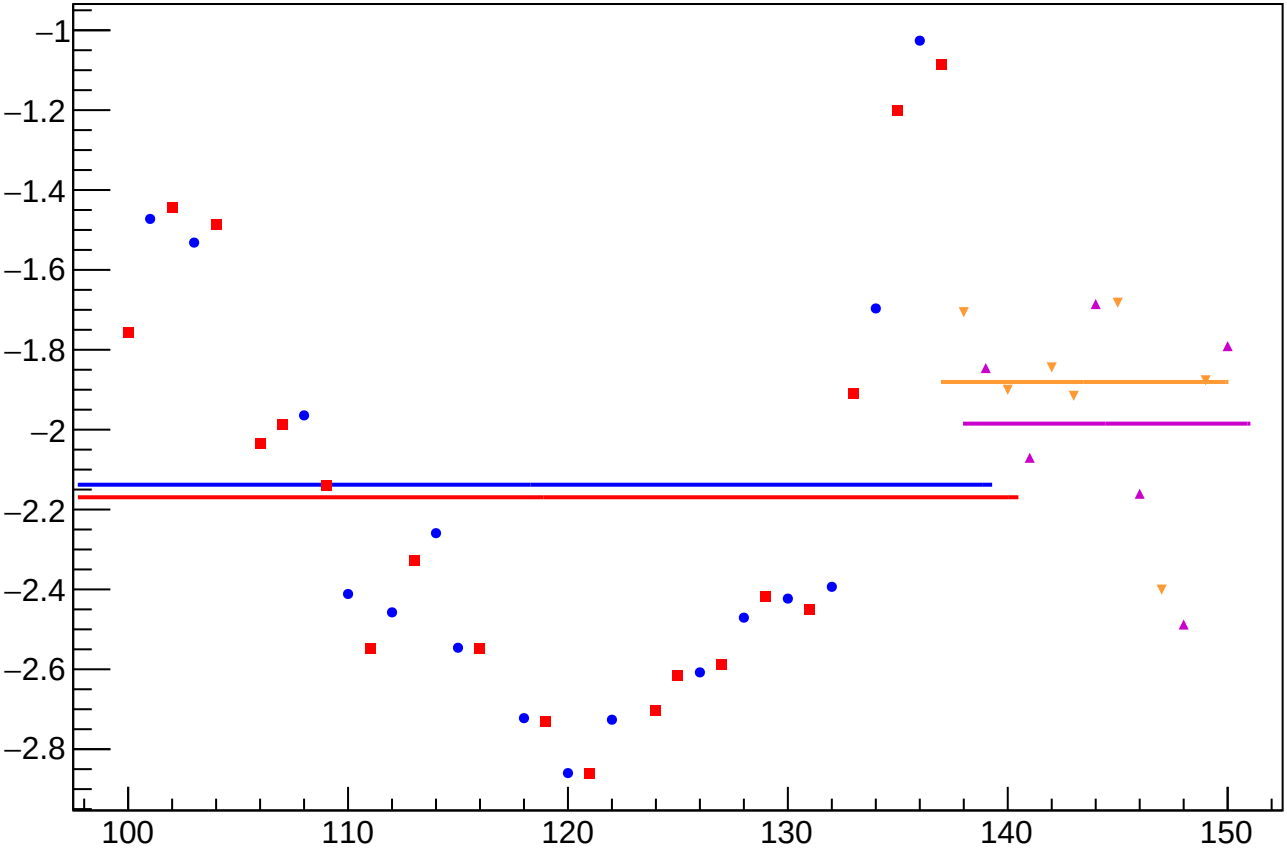
Right: 0.006+/-0.000 $\chi^2$/NDF: 780835.2/34

In: 0.007+/-0.000 $\chi^2$/NDF:1458825.3/21

Out: 0.007+/-0.000 $\chi^2$/NDF:1600390.8/25

All: 0.007+/-0.000 $\chi^2$/NDF: 3073966.3/47

# yield_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: -2.138+/-0.000 $\chi^2$/NDF: 65666622158.4/15

Left Out: -1.881+/-0.000 $\chi^2$/NDF:3810247538.8/6

Right Out: -2.169+/-0.000 $\chi^2$/NDF: 57409196879.6/18

Left In: -1.985+/-0.000 $\chi^2$/NDF:4893494264.8/5

Left: -1.931+/-0.000 $\chi^2$/NDF: 9145721014.3/12

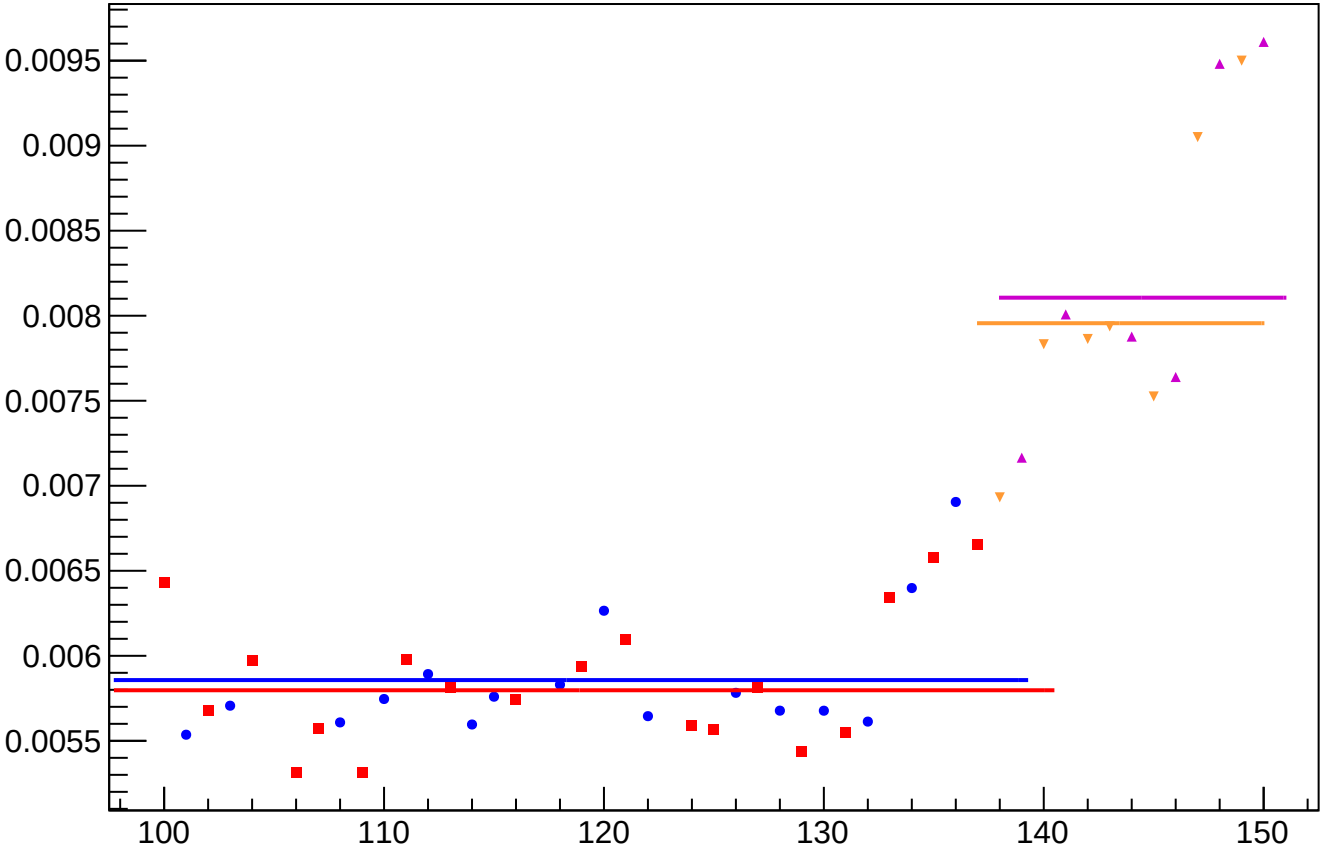
Right: -2.154+/-0.000 $\chi^2$/NDF: 123181980201.2/34

In: -2.096+/-0.000 $\chi^2$/NDF:71901697070.4/21

Out: -2.090+/-0.000 $\chi^2$/NDF:66274655761.0/25

All: -2.093+/-0.000 $\chi^2$/NDF: 138181172976.1

# yield_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 61946.9/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:107930.3/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 56374.2/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:116451.6/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 226211.2/12

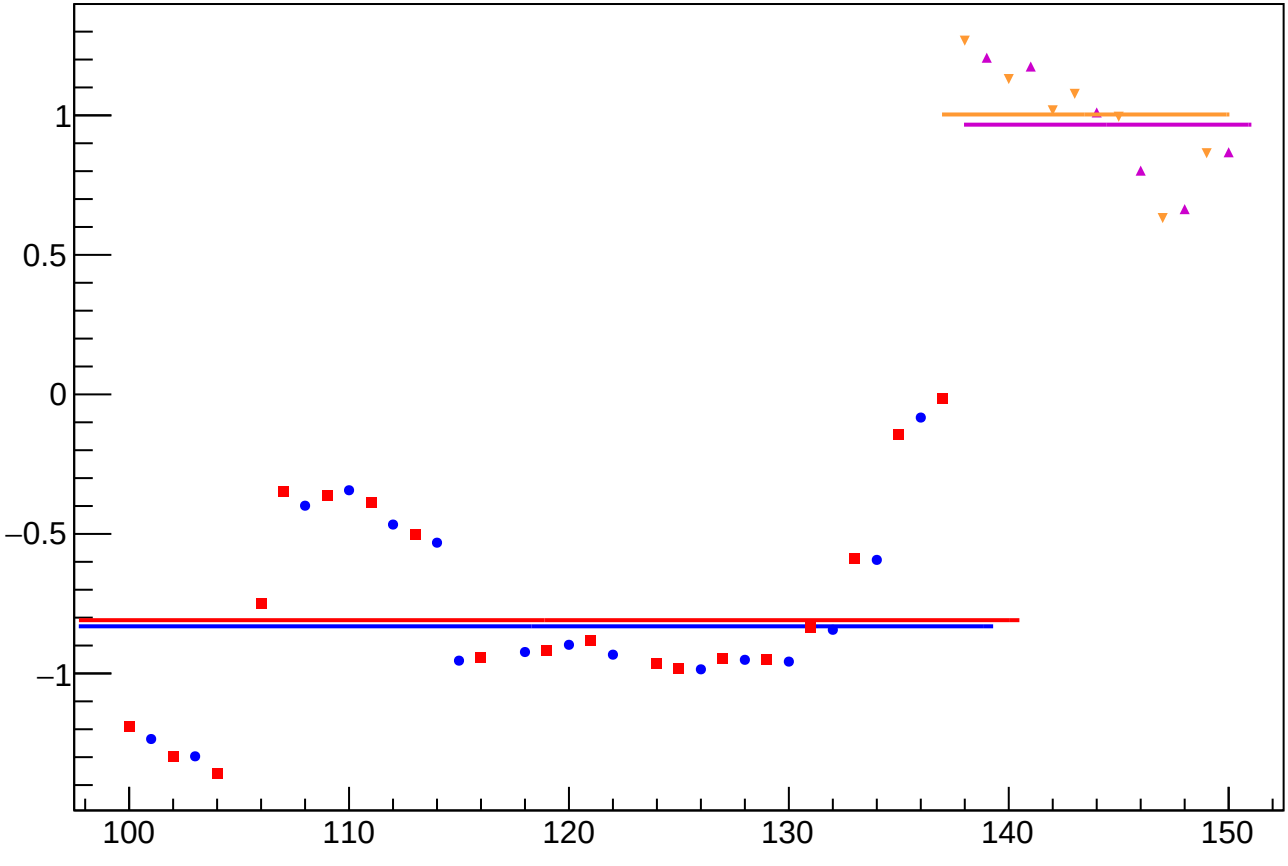
Right: 0.006+/-0.000 $\chi^2$/NDF: 119093.4/34

In: 0.006+/-0.000 $\chi^2$/NDF:758511.6/21

Out: 0.006+/-0.000 $\chi^2$/NDF:729546.3/25

All: 0.006+/-0.000 $\chi^2$/NDF: 1490201.9/47

# yield_bpm0i01X_mean vs Slug, Sign Corrected




Right In: -0.831+/-0.000 $\chi^2$/NDF: 7112259663.3/15

Left Out: 1.003+/-0.000 $\chi^2$/NDF:1156025890.8/6

Right Out: -0.809+/-0.000 $\chi^2$/NDF: 8146337898.7/18

Left In: 0.967+/-0.000 $\chi^2$/NDF:1107841146.7/5

Left: 0.985+/-0.000 $\chi^2$/NDF: 2284987828.5/12

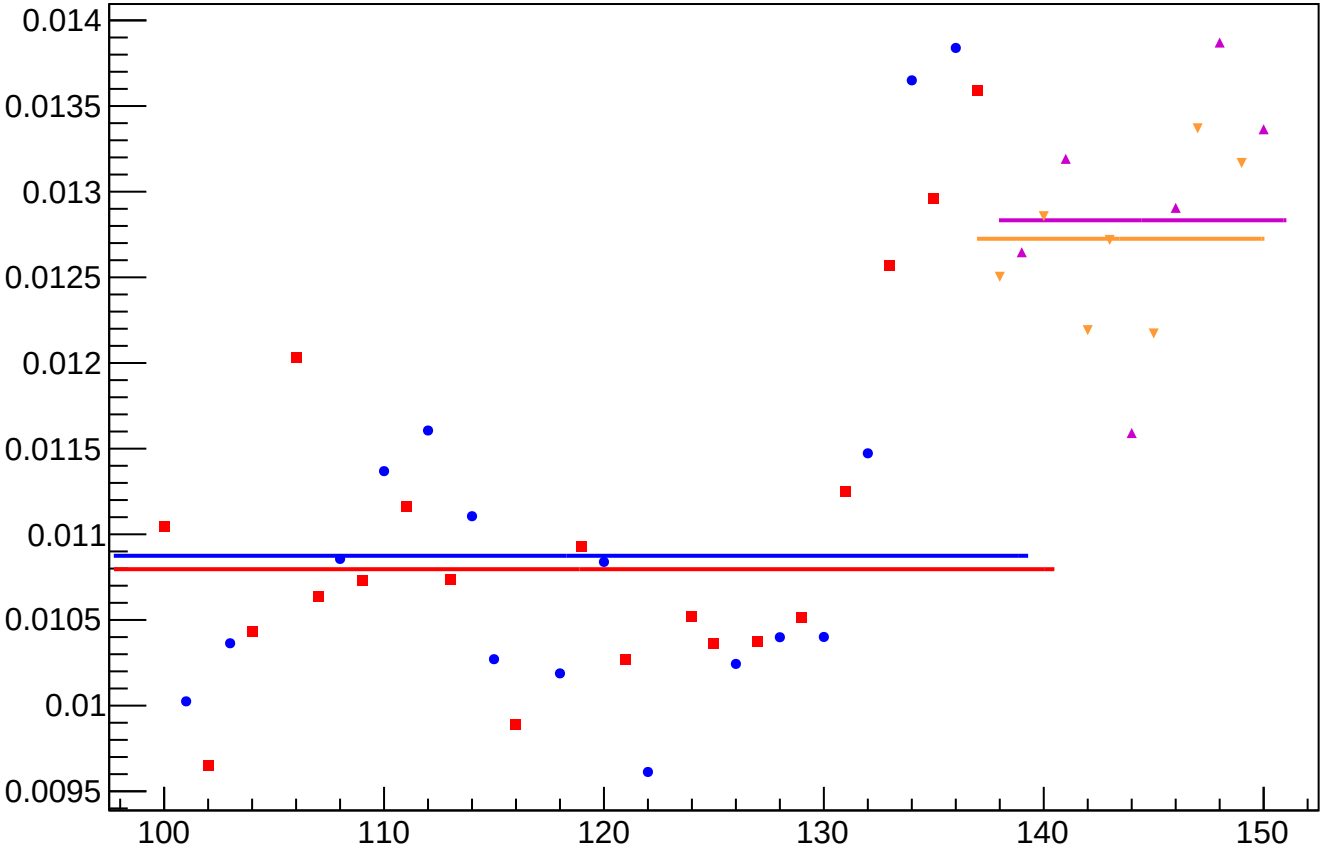
Right: -0.820+/-0.000 $\chi^2$/NDF: 15273298764.6/34

In: -0.214+/-0.000 $\chi^2$/NDF:74258951663.5/21

Out: -0.188+/-0.000 $\chi^2$/NDF:79059975272.4/25

All: -0.201+/-0.000 $\chi^2$/NDF: 153348644991.4

# yield_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 157612.7/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:11098.2/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 99122.1/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:33935.4/5

Left: 0.013+/-0.000 $\chi^2$/NDF: 45401.7/12

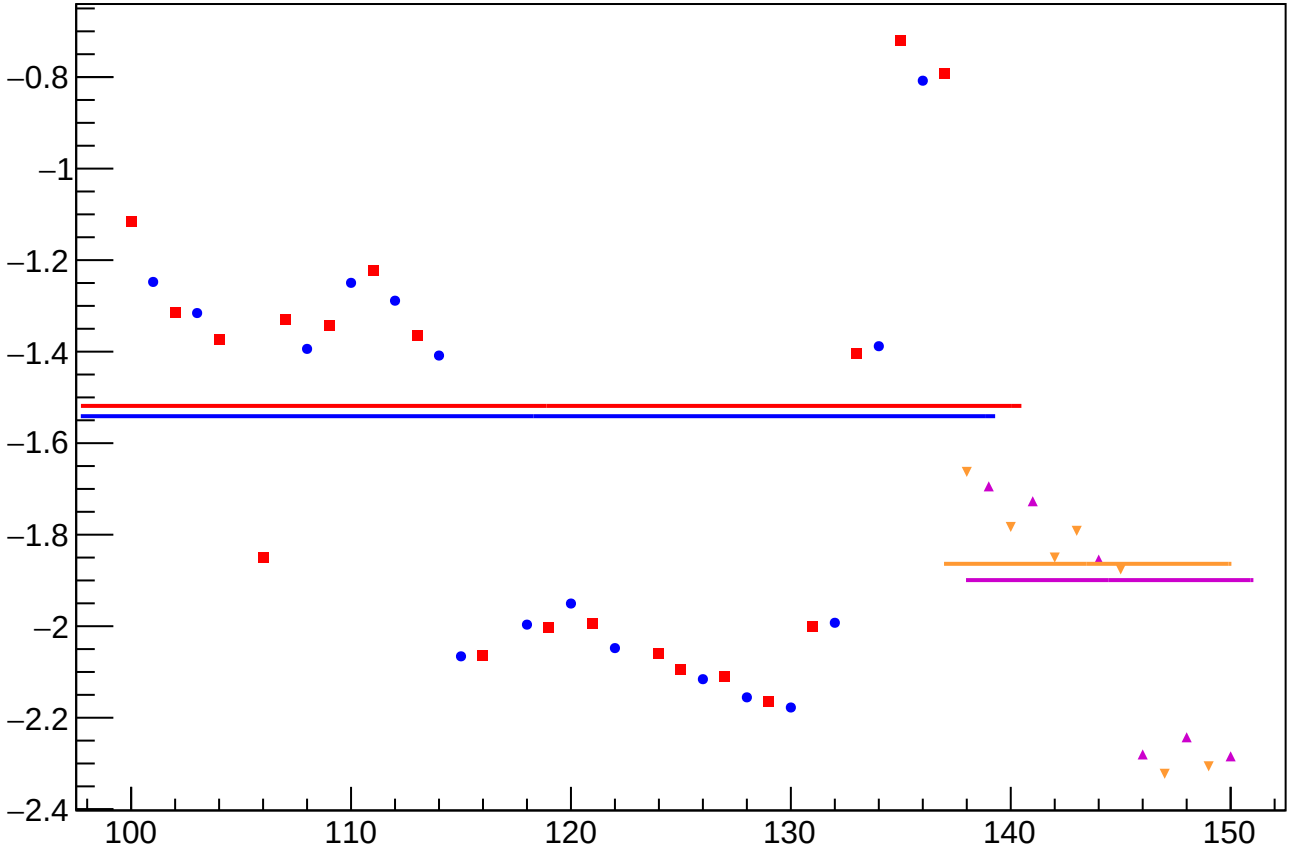
Right: 0.011+/-0.000 $\chi^2$/NDF: 257107.2/34

In: 0.012+/-0.000 $\chi^2$/NDF:348284.8/21

Out: 0.011+/-0.000 $\chi^2$/NDF:268283.8/25

All: 0.012+/-0.000 $\chi^2$/NDF: 617319.7/47

# yield_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: -1.541+/-0.000 $\chi^2$/NDF: 162409397922.2/15

Left Out: -1.864+/-0.000 $\chi^2$/NDF:20793517419.4/6

Right Out: -1.519+/-0.000 $\chi^2$/NDF: 145077318641.2/18

Left In: -1.899+/-0.000 $\chi^2$/NDF:21795328564.9/5

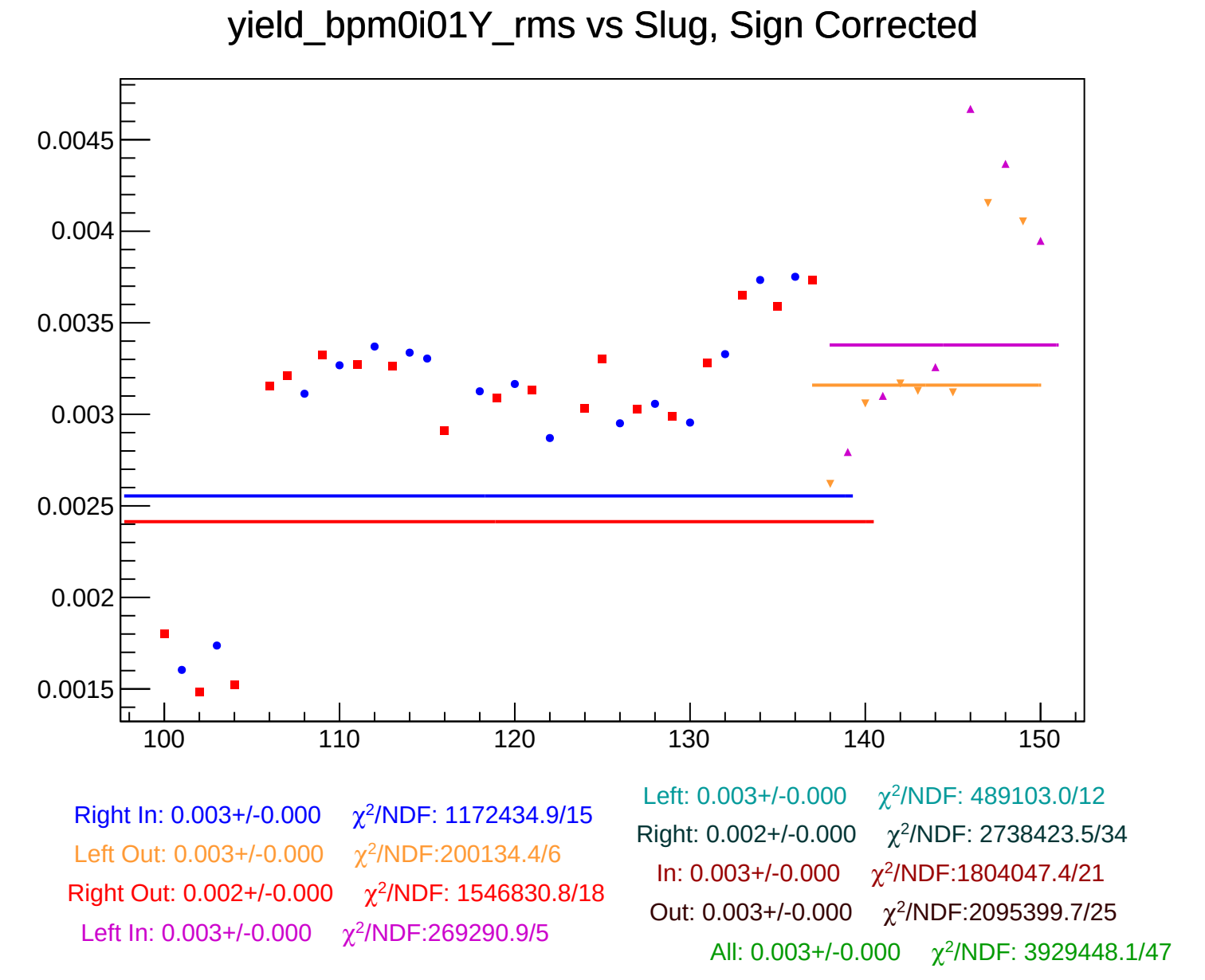
Left: -1.880+/-0.000 $\chi^2$/NDF: 42848231732.4/12

Right: -1.529+/-0.000 $\chi^2$/NDF: 307732116783.0/34

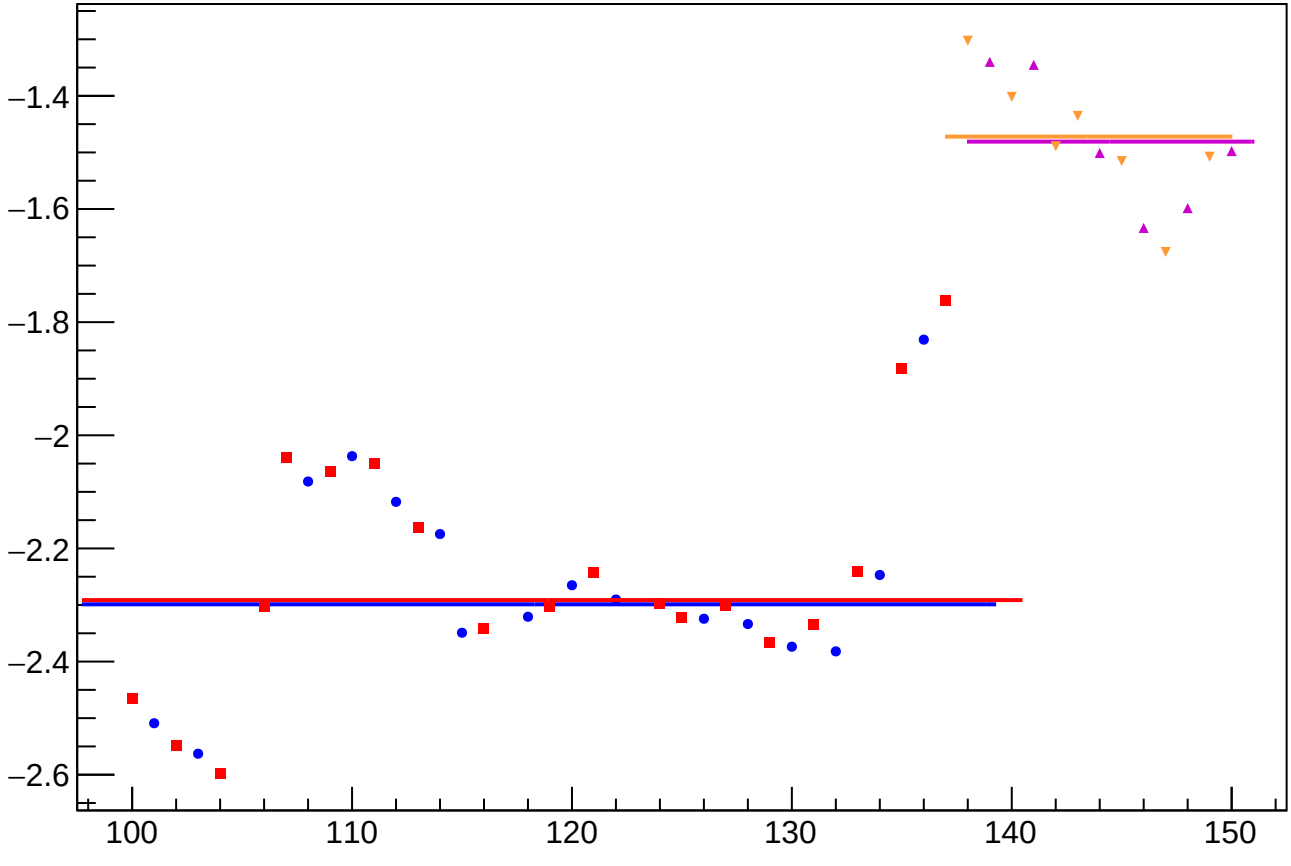
In: -1.644+/-0.000 $\chi^2$/NDF:218396371013.3/21

Out: -1.625+/-0.000 $\chi^2$/NDF:203174890362.1/25

All: -1.634+/-0.000 $\chi^2$/NDF: 421820260712.1


yield_bpm0i01Y_rms vs Slug, Sign Corrected
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
100
110
120
130
140
150
Right In: 0.003+/-0.000 χ²/NDF: 1172434.9/15
Left Out: 0.003+/-0.000 χ²/NDF:200134.4/6
Right Out: 0.002+/-0.000 χ²/NDF: 1546830.8/18
Left In: 0.003+/-0.000 χ²/NDF:269290.9/5
Left: 0.003+/-0.000 χ²/NDF: 489103.0/12
Right: 0.002+/-0.000 χ²/NDF: 2738423.5/34
In: 0.003+/-0.000 χ²/NDF:1804047.4/21
Out: 0.003+/-0.000 χ²/NDF:2095399.7/25
All: 0.003+/-0.000 χ²/NDF: 3929448.1/47

# yield_bpm0i01aX_mean vs Slug, Sign Corrected




Right In: -2.299+/-0.000 $\chi^2$/NDF: 6129071089.8/15

Left Out: -1.472+/-0.000 $\chi^2$/NDF:775087308.4/6

Right Out: -2.291+/-0.000 $\chi^2$/NDF: 6831007568.9/18

Left In: -1.481+/-0.000 $\chi^2$/NDF:754421023.9/5

Left: -1.476+/-0.000 $\chi^2$/NDF: 1532090440.3/12

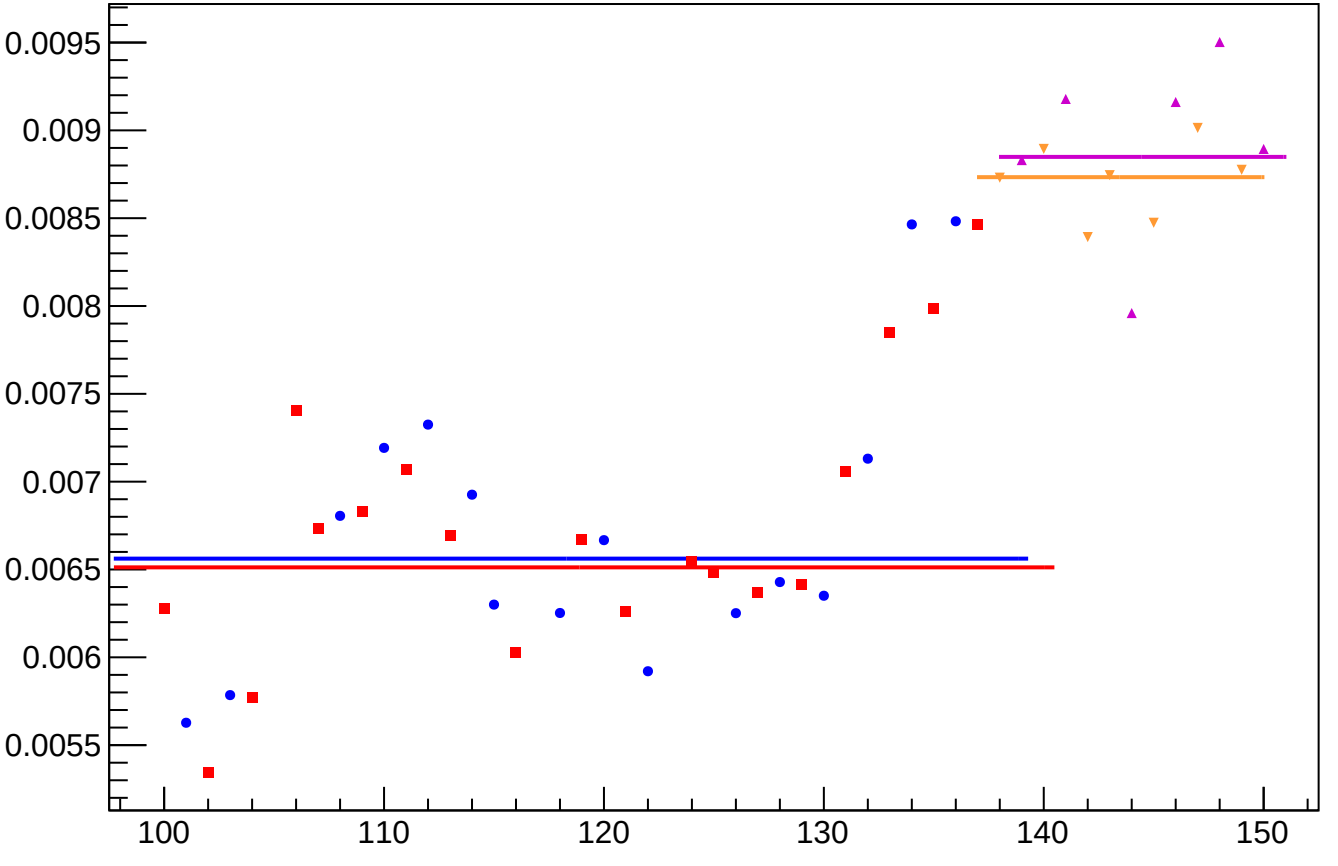
Right: -2.295+/-0.000 $\chi^2$/NDF: 12964639512.9/34

In: -2.066+/-0.000 $\chi^2$/NDF:37455264916.3/21

Out: -2.056+/-0.000 $\chi^2$/NDF:39845977923.9/25

All: -2.061+/-0.000 $\chi^2$/NDF: 77312608631.9/

# yield_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 221890.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:4890.8/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 184961.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:33454.8/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 39218.6/12

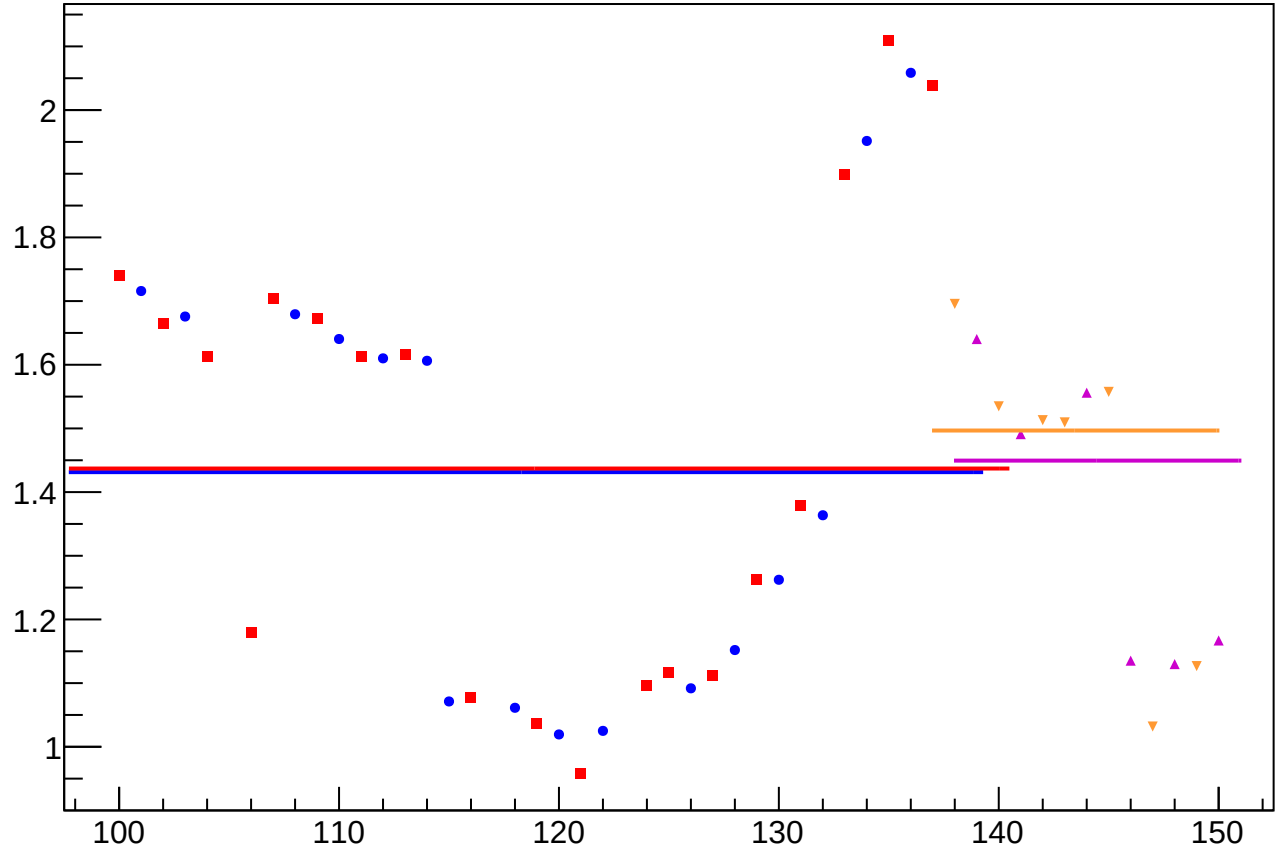
Right: 0.007+/-0.000 $\chi^2$/NDF: 407258.0/34

In: 0.007+/-0.000 $\chi^2$/NDF:733499.0/21

Out: 0.007+/-0.000 $\chi^2$/NDF:663921.9/25

All: 0.007+/-0.000 $\chi^2$/NDF: 1398324.8/47

# yield_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 1.431+/-0.000 $\chi^2$/NDF: 189180734956.1/15

Left Out: 1.497+/-0.000 $\chi^2$/NDF:6464006374.8/6

Right Out: 1.437+/-0.000 $\chi^2$/NDF: 182019221175.5/18

Left In: 1.449+/-0.000 $\chi^2$/NDF:5683145528.1/5

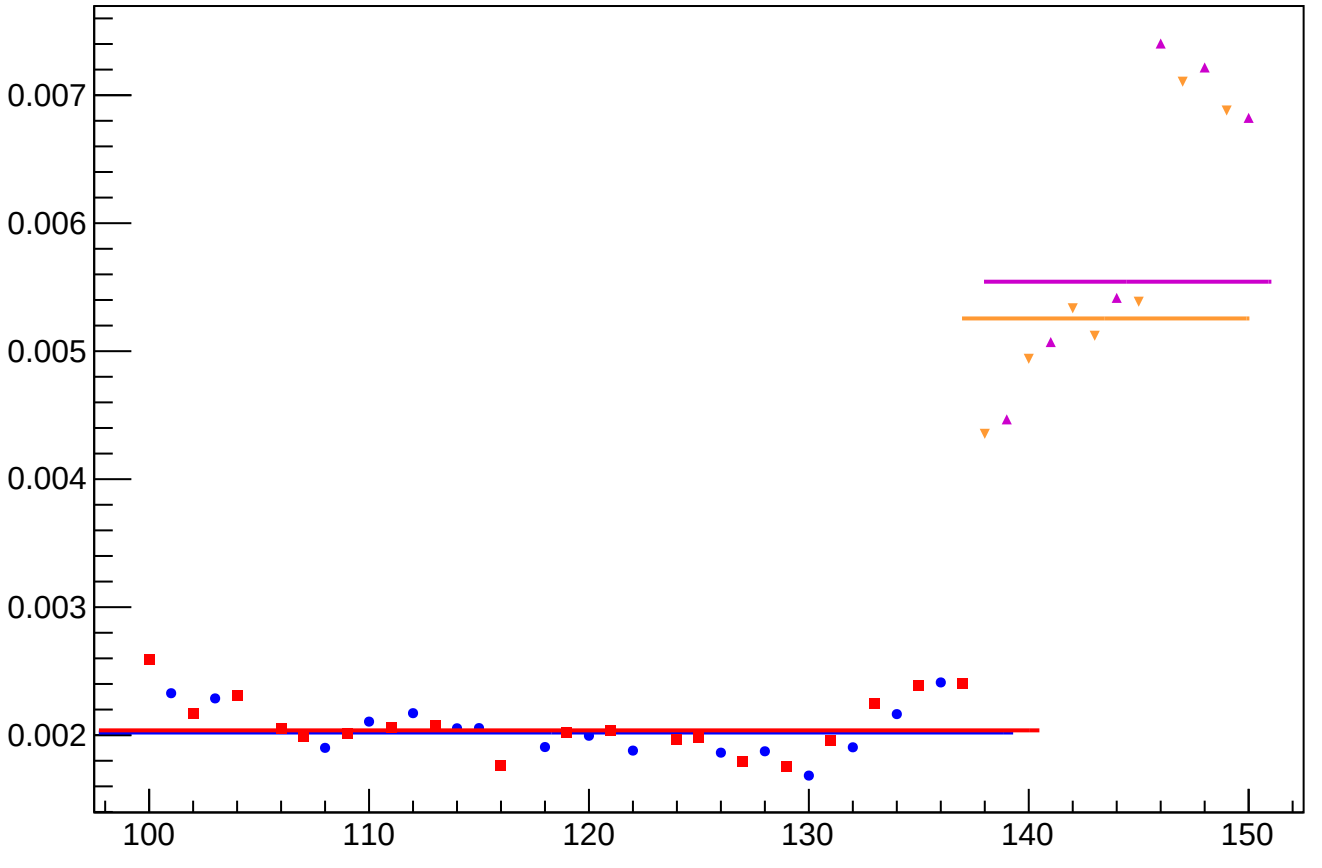
Left: 1.475+/-0.000 $\chi^2$/NDF: 12321866147.2/12

Right: 1.434+/-0.000 $\chi^2$/NDF: 371226177704.8/34

In: 1.433+/-0.000 $\chi^2$/NDF:194907598894.9/21

Out: 1.443+/-0.000 $\chi^2$/NDF:189030888557.6/25

All: 1.438+/-0.000 $\chi^2$/NDF: 384024486656.9




Right In: 0.002+/-0.000 $\chi^2$/NDF: 154923.3/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:238084.5/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 113640.4/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:319129.0/5

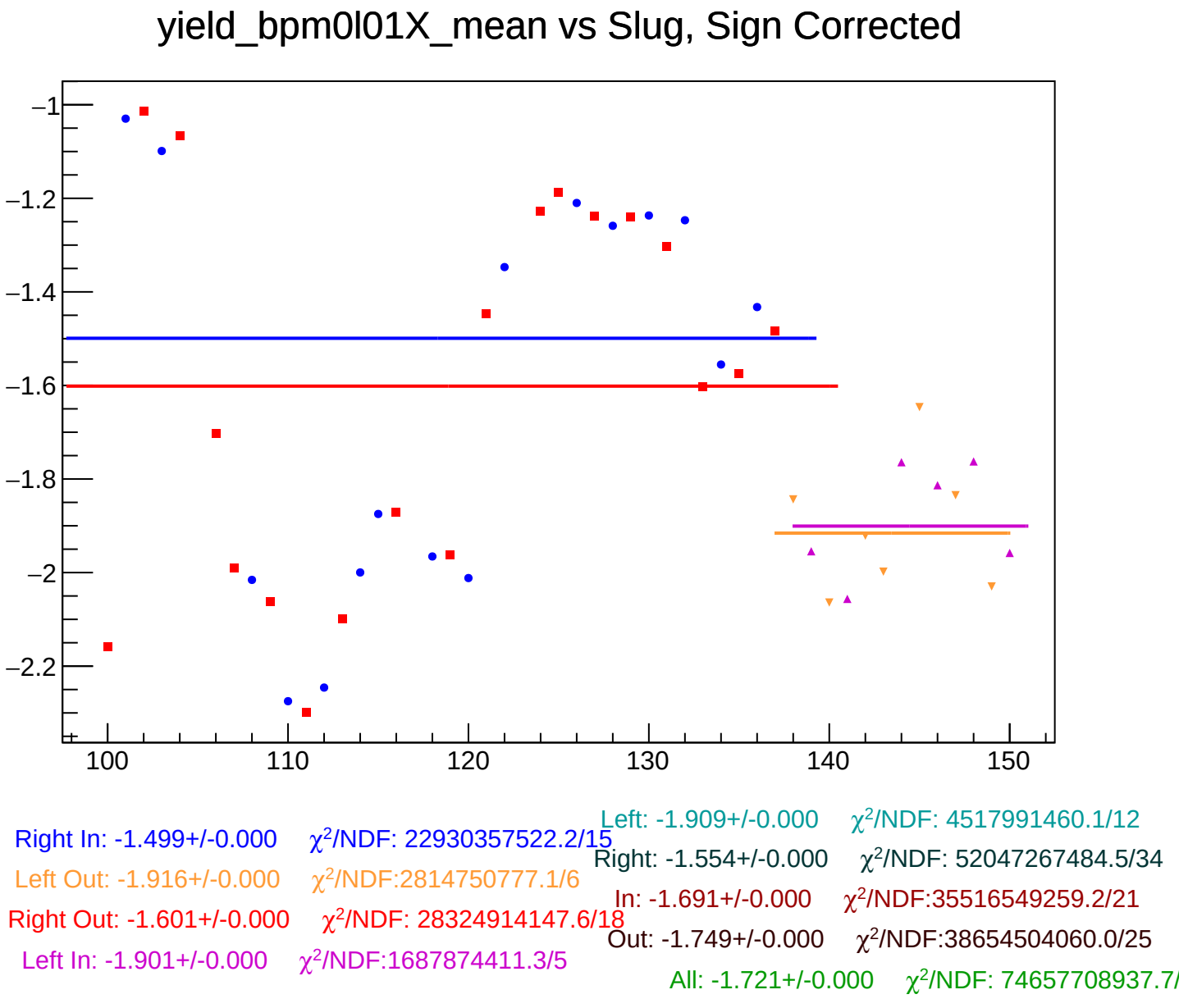
Left: 0.005+/-0.000 $\chi^2$/NDF: 570111.1/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 269026.9/34

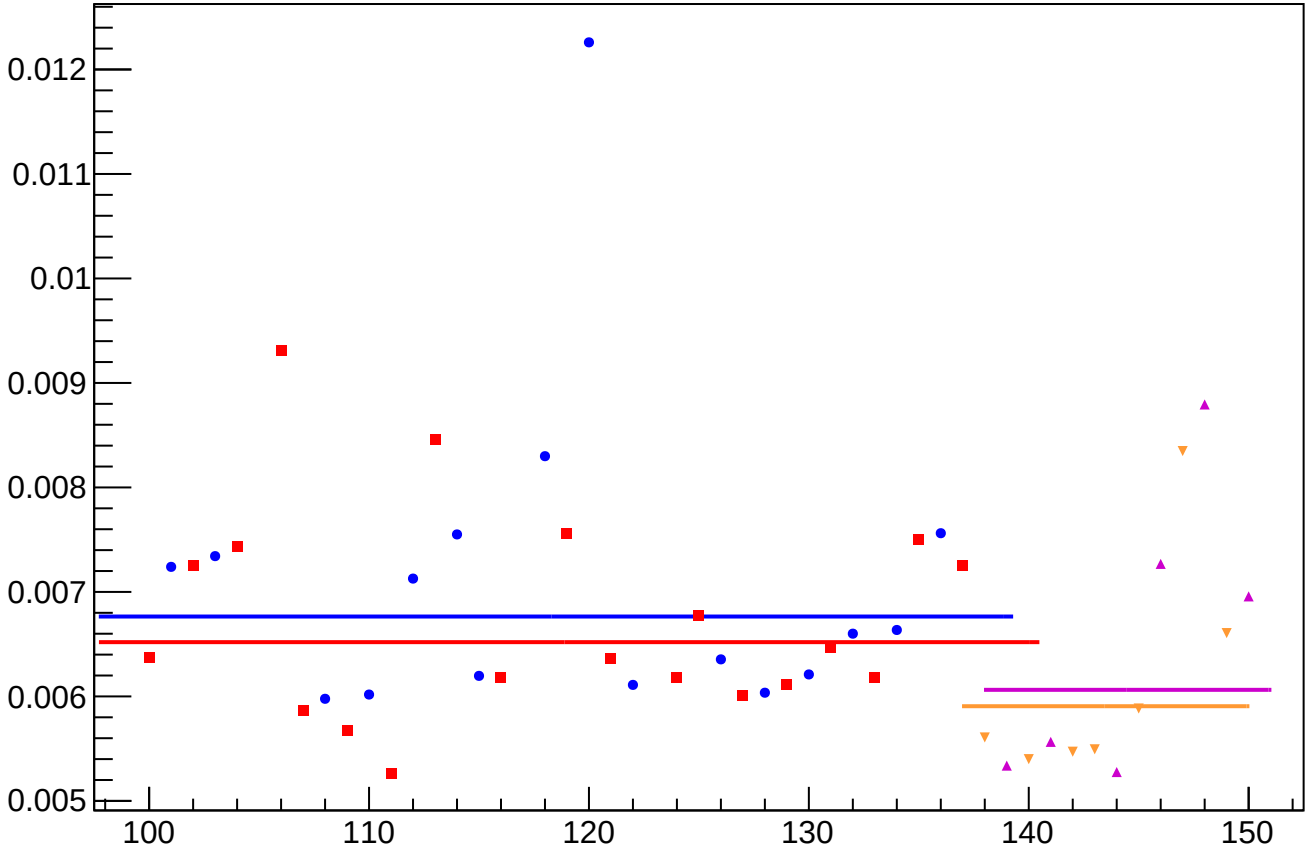
In: 0.002+/-0.000 $\chi^2$/NDF:3780960.9/21

Out: 0.002+/-0.000 $\chi^2$/NDF:3535543.3/25

All: 0.002+/-0.000 $\chi^2$/NDF: 7318257.5/47


yield_bpm0l01X_mean vs Slug, Sign Corrected
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
100
110
120
130
140
150
Right In: -1.499+/-0.000 χ²/NDF: 22930357522.2/15
Left Out: -1.916+/-0.000 χ²/NDF:2814750777.1/6
Right Out: -1.601+/-0.000 χ²/NDF: 28324914147.6/18
Left In: -1.901+/-0.000 χ²/NDF:1687874411.3/5
Left: -1.909+/-0.000 χ²/NDF: 4517991460.1/12
Right: -1.554+/-0.000 χ²/NDF: 52047267484.5/34
In: -1.691+/-0.000 χ²/NDF:35516549259.2/21
Out: -1.749+/-0.000 χ²/NDF:38654504060.0/25
All: -1.721+/-0.000 χ²/NDF: 74657708937.7/

# yield_bpm0l01X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 238566.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:178954.7/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 245428.1/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:295689.2/5

Left: 0.006+/-0.000 $\chi^2$/NDF: 477986.5/12

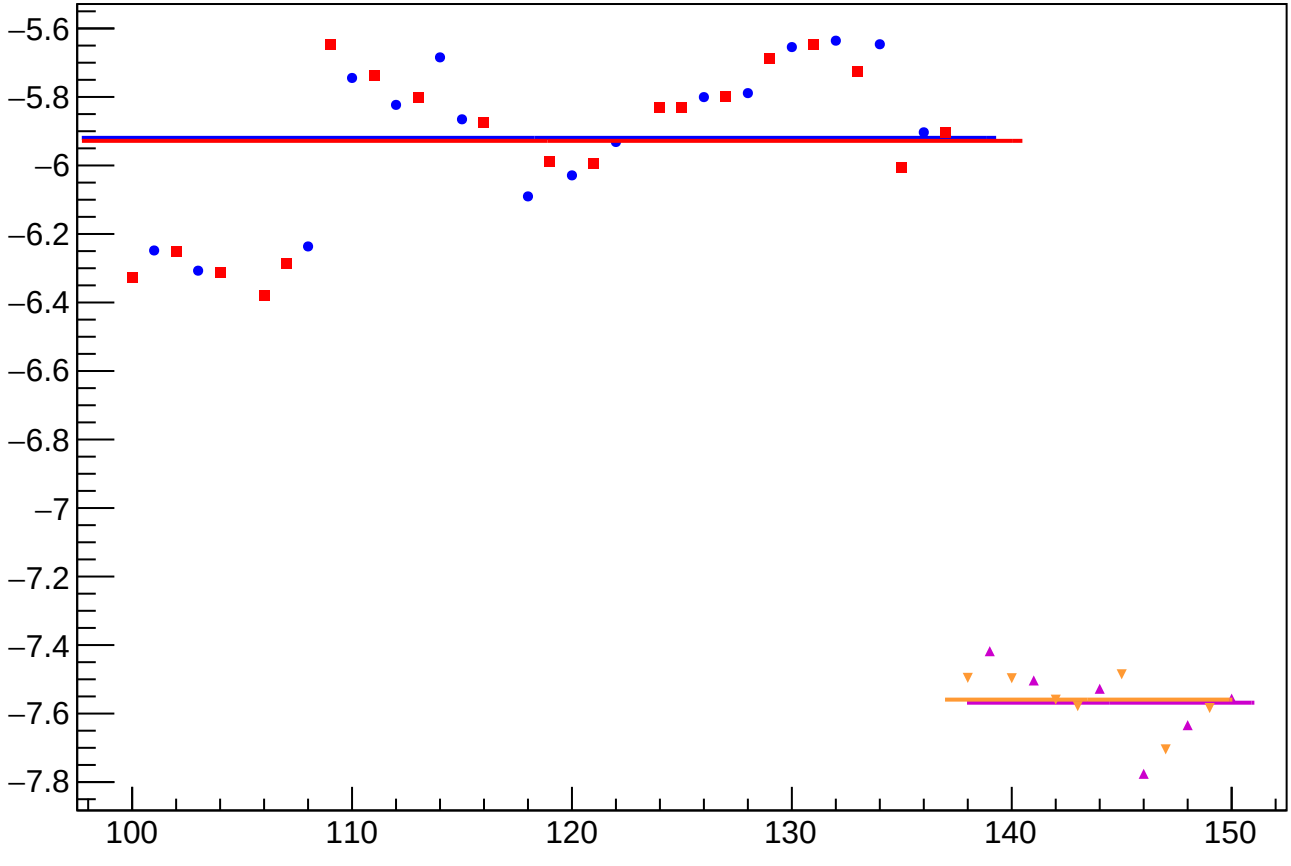
Right: 0.007+/-0.000 $\chi^2$/NDF: 493094.9/34

In: 0.006+/-0.000 $\chi^2$/NDF:600822.8/21

Out: 0.006+/-0.000 $\chi^2$/NDF:481624.1/25

All: 0.006+/-0.000 $\chi^2$/NDF: 1093734.7/47

# yield_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: -5.919+/-0.000 $\chi^2$/NDF: 11742457053.3/15

Left Out: -7.559+/-0.000 $\chi^2$/NDF:241061115.4/6

Right Out: -5.928+/-0.000 $\chi^2$/NDF: 12641528579.2/18

Left In: -7.568+/-0.000 $\chi^2$/NDF:526495091.2/5

Left: -7.564+/-0.000 $\chi^2$/NDF: 769169816.6/12

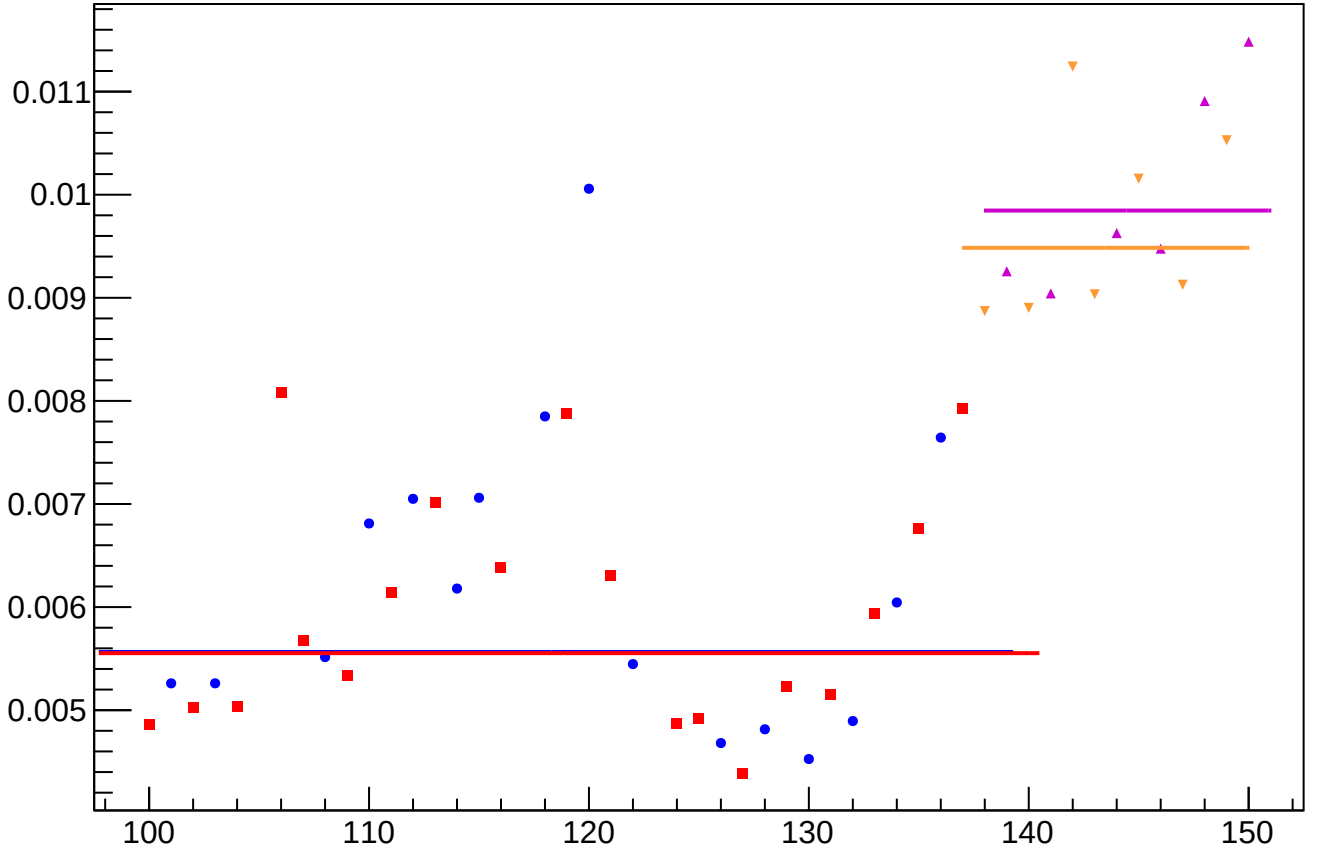
Right: -5.924+/-0.000 $\chi^2$/NDF: 24391751979.3/34

In: -6.190+/-0.000 $\chi^2$/NDF:100736237351.8/21

Out: -6.195+/-0.000 $\chi^2$/NDF:104589307038.0/25

All: -6.193+/-0.000 $\chi^2$/NDF: 205328393020.

# yield_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 495546.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:46740.8/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 364541.1/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:56352.1/5

Left: 0.010+/-0.000 $\chi^2$/NDF: 108325.4/12

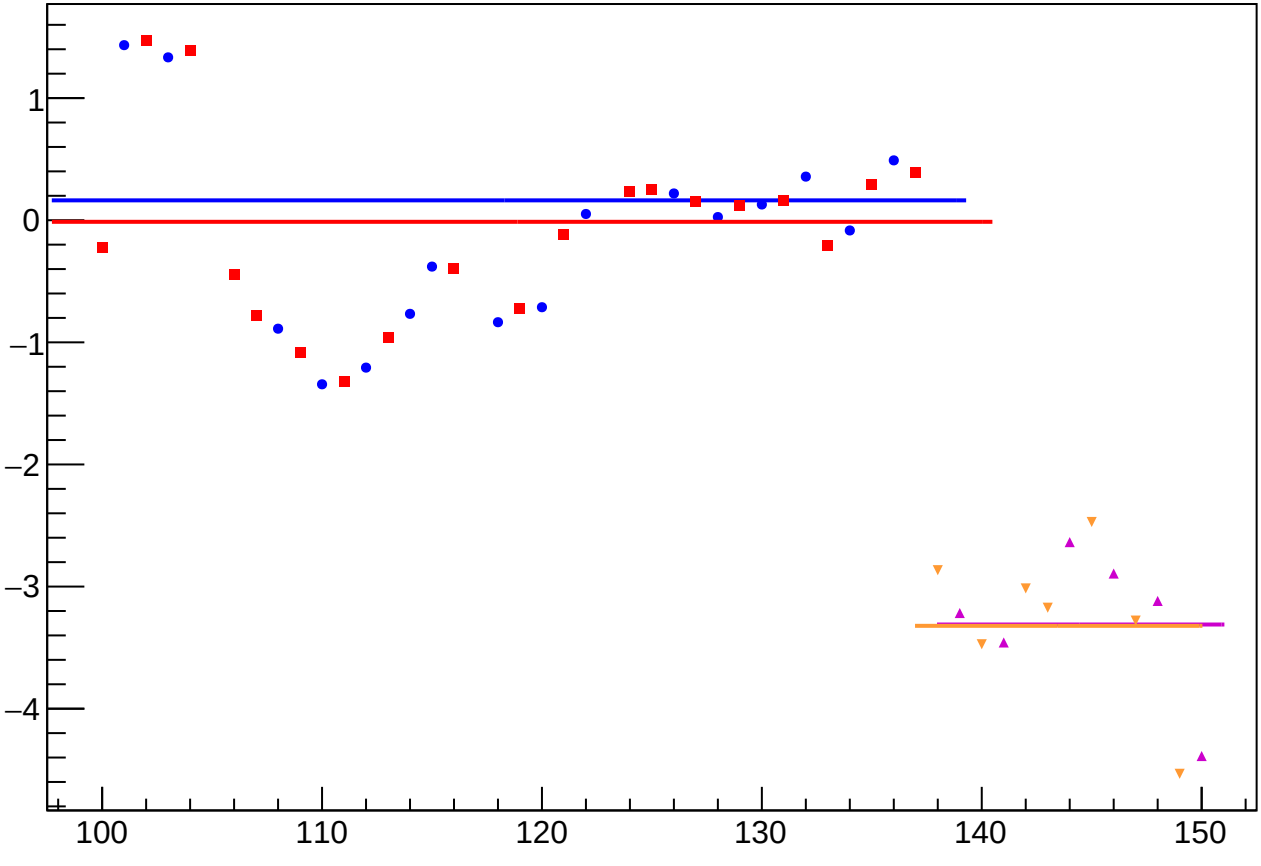
Right: 0.006+/-0.000 $\chi^2$/NDF: 860112.8/34

In: 0.006+/-0.000 $\chi^2$/NDF:1745230.7/21

Out: 0.006+/-0.000 $\chi^2$/NDF:1476915.0/25

All: 0.006+/-0.000 $\chi^2$/NDF: 3223378.5/47

# yield_bpm0l02X_mean vs Slug, Sign Corrected




Right In: 0.163+/-0.000 $\chi^2$/NDF: 17940034444.3/15

Left Out: -3.321+/-0.000 $\chi^2$/NDF:6167621816.2/6

Right Out: -0.013+/-0.000 $\chi^2$/NDF: 22484002798.8/18

Left In: -3.311+/-0.000 $\chi^2$/NDF:4518174156.1/5

Left: -3.316+/-0.000 $\chi^2$/NDF: 10686594322.9/12

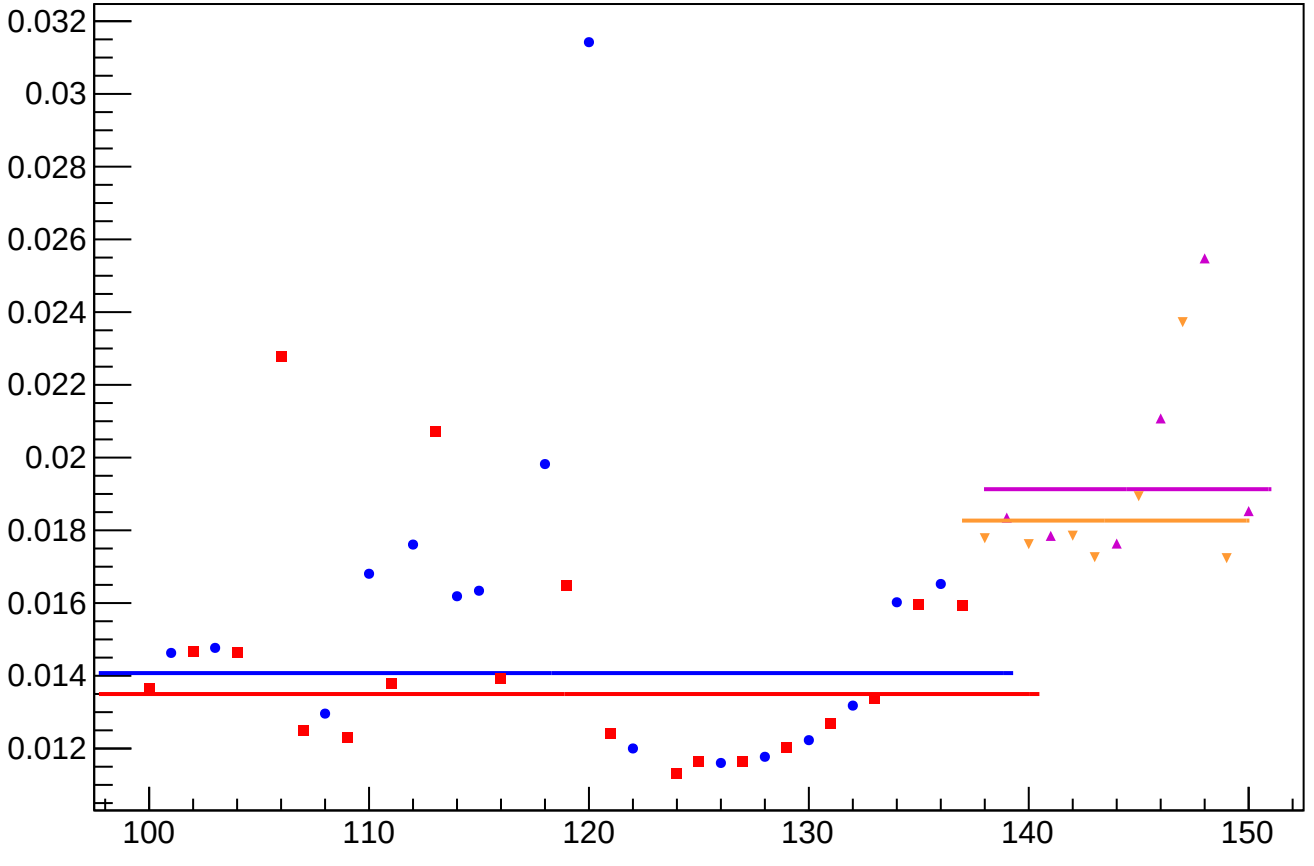
Right: 0.068+/-0.000 $\chi^2$/NDF: 40953433371.5/34

In: -0.852+/-0.000 $\chi^2$/NDF:134681066760.9/21

Out: -0.954+/-0.000 $\chi^2$/NDF:144355059847.4/25

All: -0.907+/-0.000 $\chi^2$/NDF: 279283685090.4

# yield_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 465421.6/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:95670.7/6

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 314810.3/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:132257.5/5

Left: 0.019+/-0.000 $\chi^2$/NDF: 238293.4/12

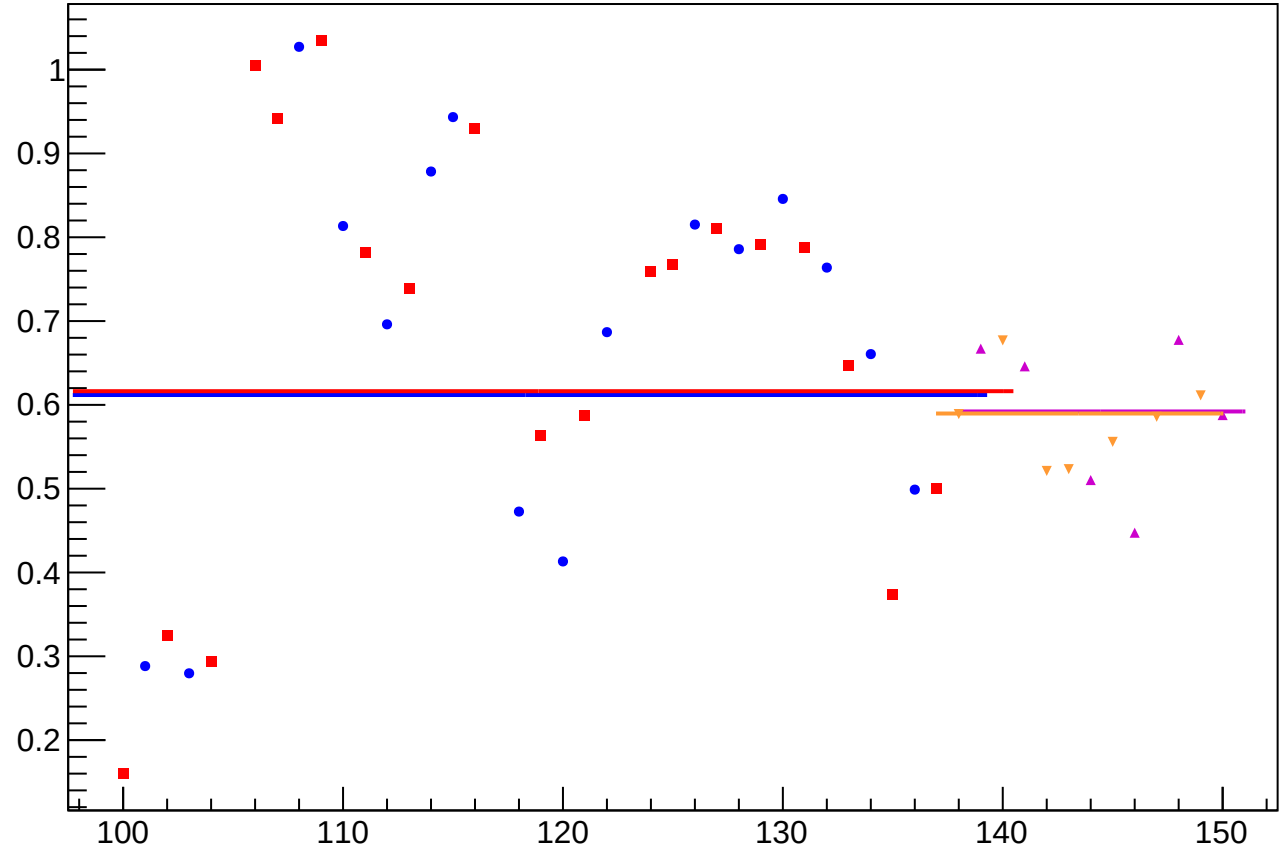
Right: 0.014+/-0.000 $\chi^2$/NDF: 791602.0/34

In: 0.016+/-0.000 $\chi^2$/NDF:1073418.6/21

Out: 0.015+/-0.000 $\chi^2$/NDF:891377.2/25

All: 0.015+/-0.000 $\chi^2$/NDF: 1988248.8/47

# yield_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: 0.612+/-0.000 $\chi^2$/NDF: 5639014502.0/15

Left Out: 0.590+/-0.000 $\chi^2$/NDF:167724616.7/6

Right Out: 0.616+/-0.000 $\chi^2$/NDF: 6419512040.7/18

Left In: 0.592+/-0.000 $\chi^2$/NDF:406846282.0/5

Left: 0.591+/-0.000 $\chi^2$/NDF: 574753984.3/12

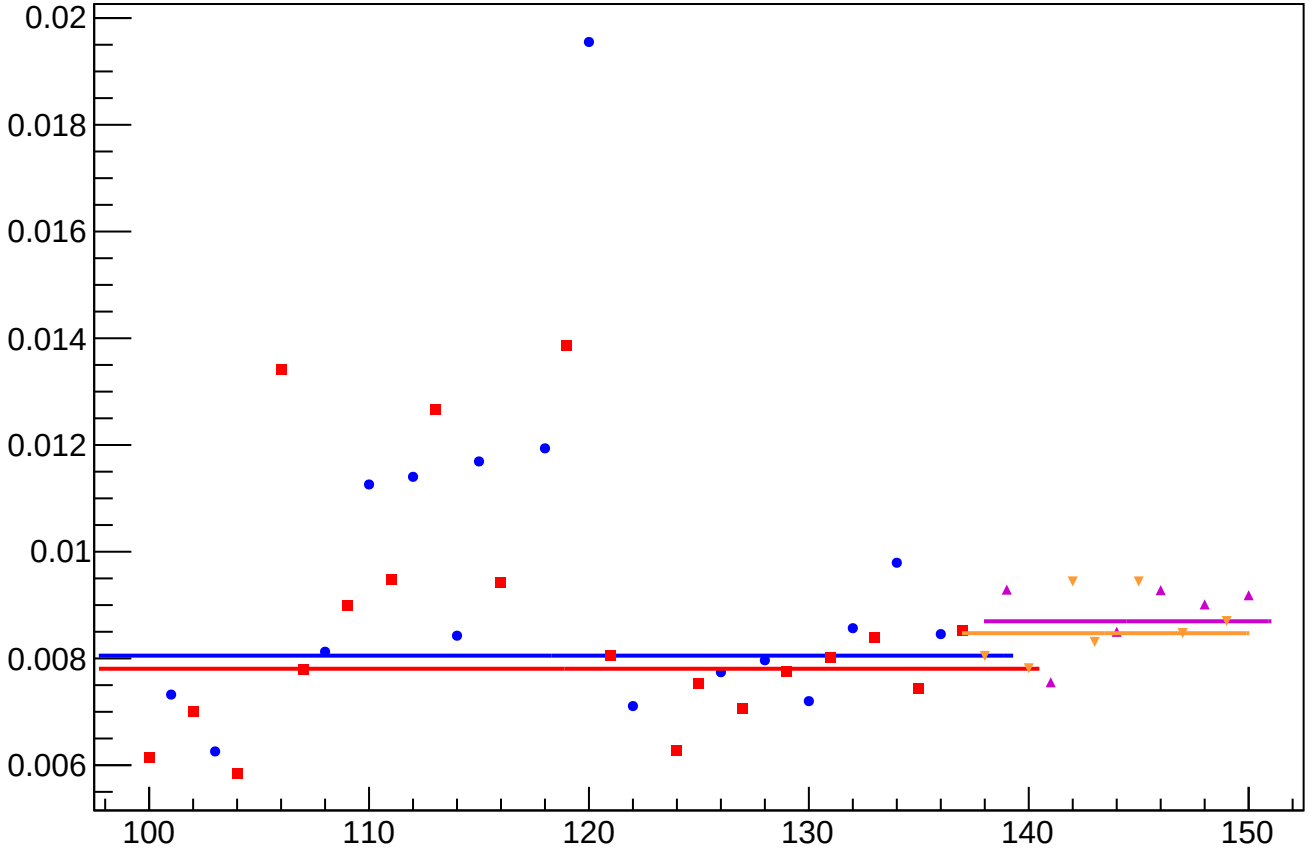
Right: 0.614+/-0.000 $\chi^2$/NDF: 12059563453.6/34

In: 0.604+/-0.000 $\chi^2$/NDF:6060044011.7/21

Out: 0.606+/-0.000 $\chi^2$/NDF:6615224076.0/25

All: 0.605+/-0.000 $\chi^2$/NDF: 12675666376.0/4

# yield_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 598309.5/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:37460.1/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 587157.2/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:54592.6/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 95111.3/12

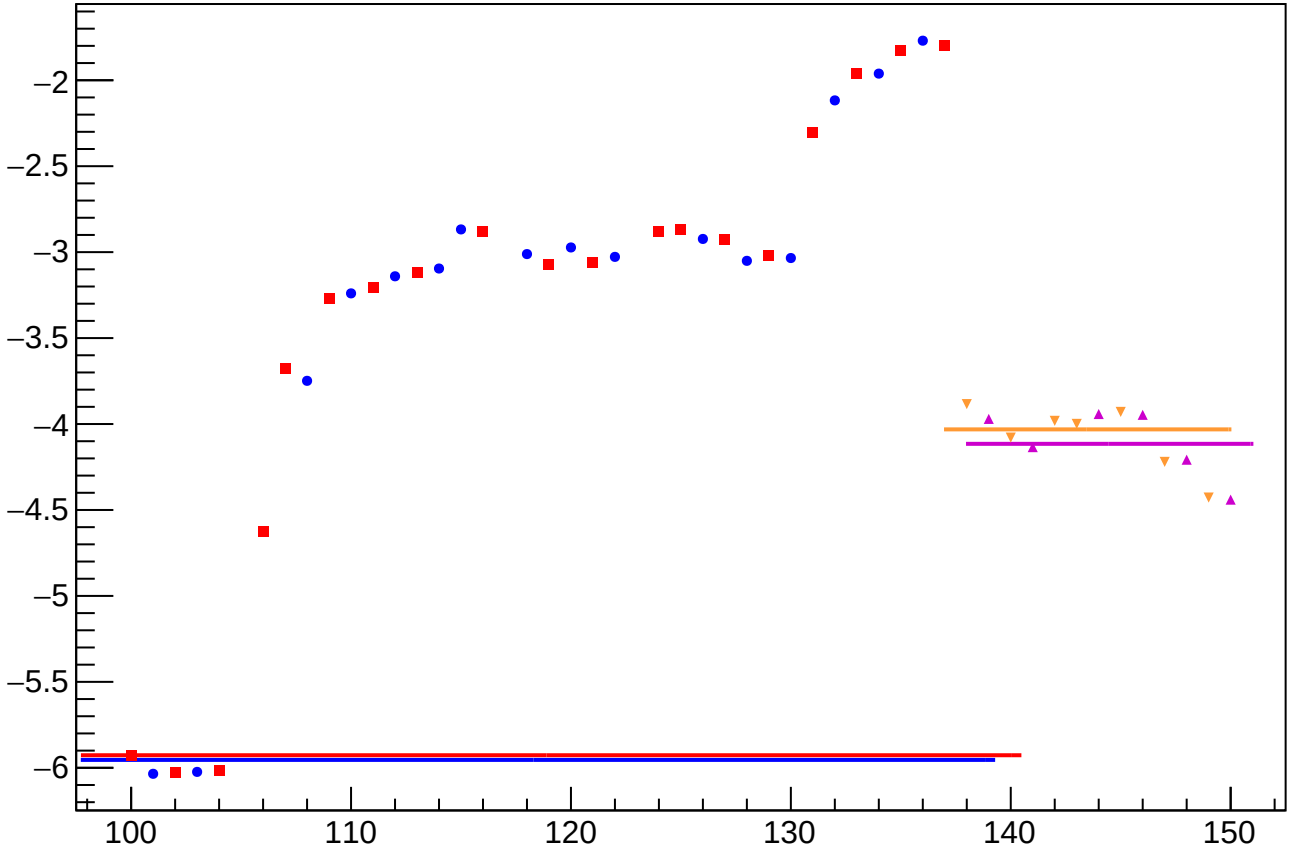
Right: 0.008+/-0.000 $\chi^2$/NDF: 1191469.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:683379.8/21

Out: 0.008+/-0.000 $\chi^2$/NDF:659647.0/25

All: 0.008+/-0.000 $\chi^2$/NDF: 1352807.0/47

# yield_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -5.954+/-0.000 $\chi^2$/NDF: 13099475661.5/15

Left Out: -4.031+/-0.000 $\chi^2$/NDF:15602107.3/6

Right Out: -5.927+/-0.000 $\chi^2$/NDF: 13922819741.5/18

Left In: -4.115+/-0.000 $\chi^2$/NDF:14584023.6/5

Left: -4.084+/-0.000 $\chi^2$/NDF: 32914404.8/12

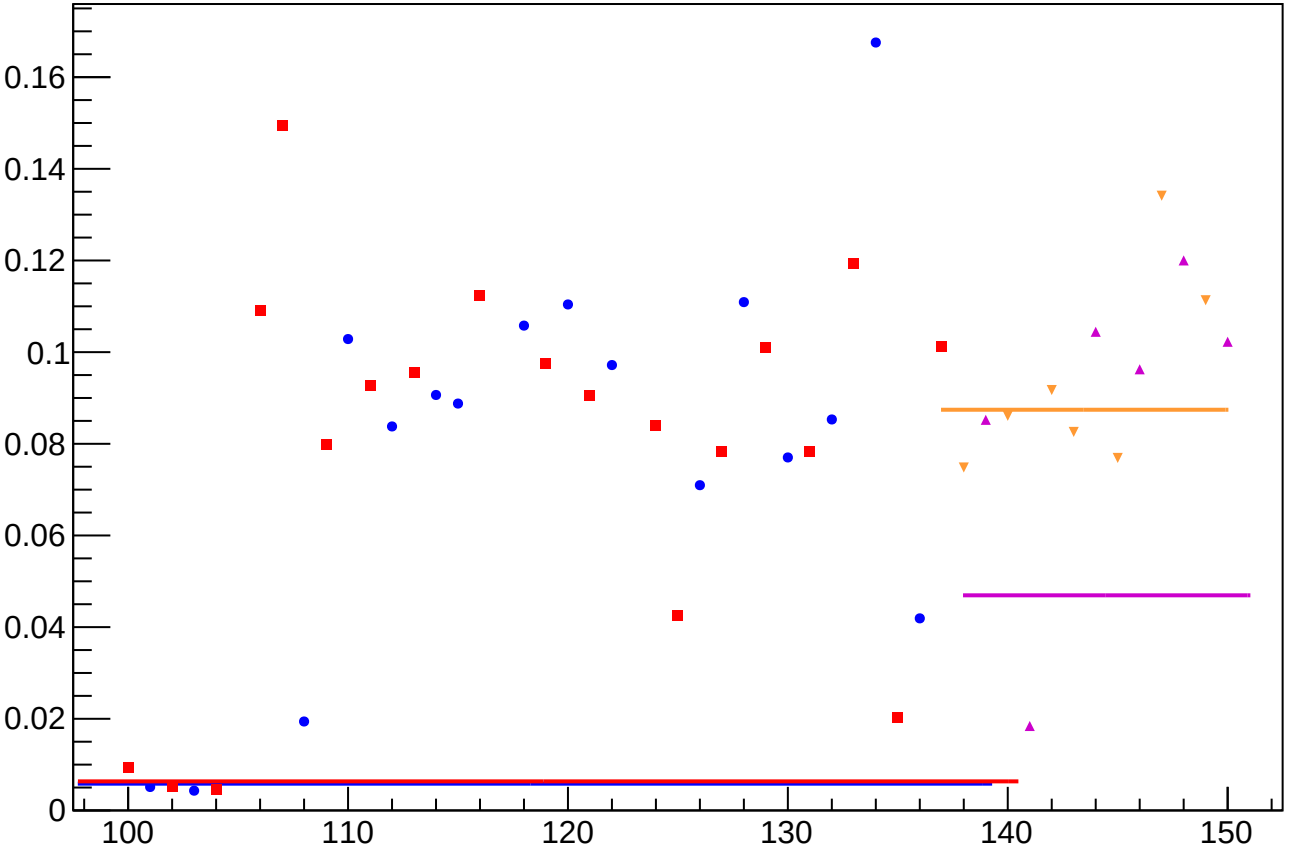
Right: -5.942+/-0.000 $\chi^2$/NDF: 27039435928.9/34

In: -5.917+/-0.000 $\chi^2$/NDF:16591679433.3/21

Out: -5.900+/-0.000 $\chi^2$/NDF:16099606881.7/25

All: -5.910+/-0.000 $\chi^2$/NDF: 32698469263.1/

# yield_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 8700553.3/15

Left Out: 0.087+/-0.000 $\chi^2$/NDF:315734.3/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 8751831.3/18

Left In: 0.047+/-0.000 $\chi^2$/NDF:3239883.2/5

Left: 0.062+/-0.000 $\chi^2$/NDF: 4820649.1/12

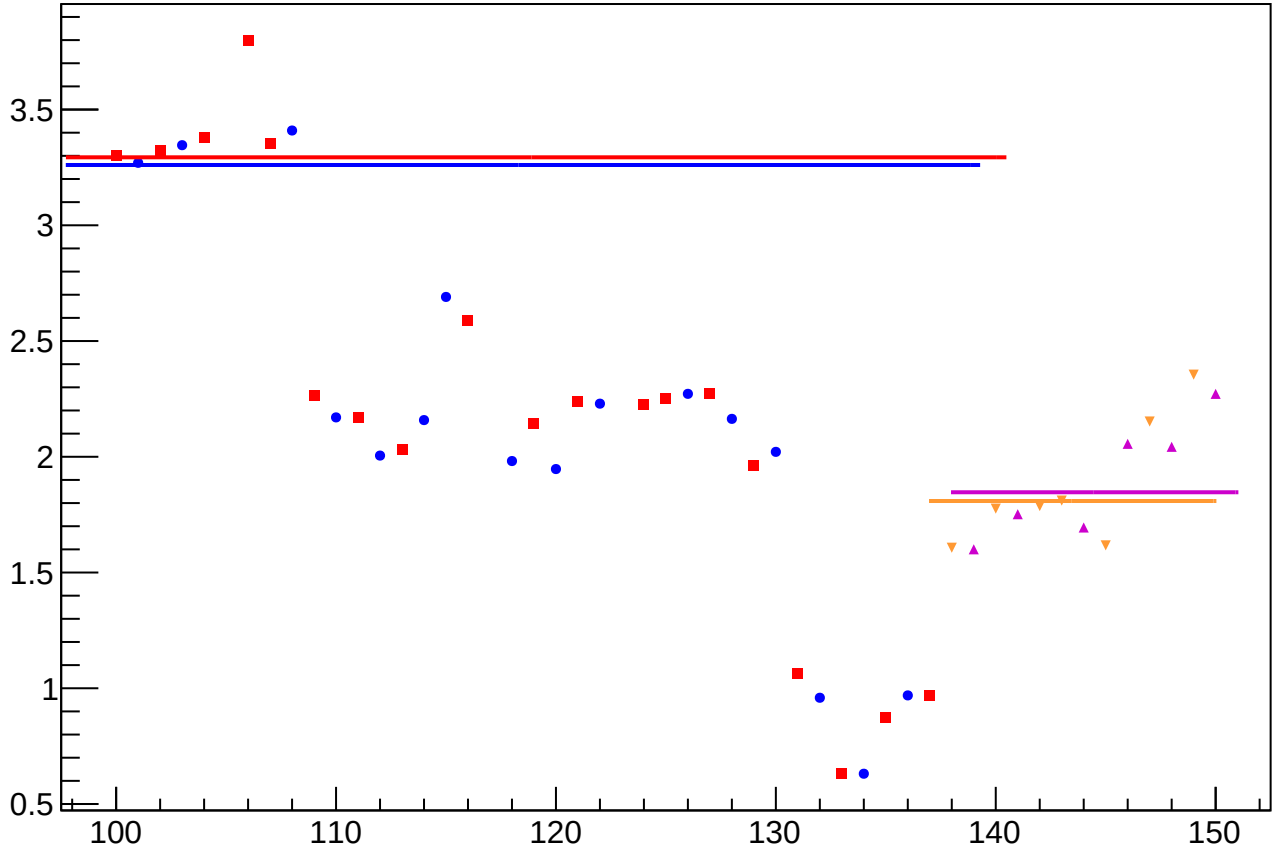
Right: 0.006+/-0.000 $\chi^2$/NDF: 17464019.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:15414482.2/21

Out: 0.007+/-0.000 $\chi^2$/NDF:16975592.4/25

All: 0.007+/-0.000 $\chi^2$/NDF: 32422889.1/47

# yield_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: 3.260+/-0.000 $\chi^2$/NDF: 3009624113.9/15

Left Out: 1.809+/-0.000 $\chi^2$/NDF:29477763.5/6

Right Out: 3.294+/-0.000 $\chi^2$/NDF: 3243748149.8/18

Left In: 1.847+/-0.000 $\chi^2$/NDF:24928120.7/5

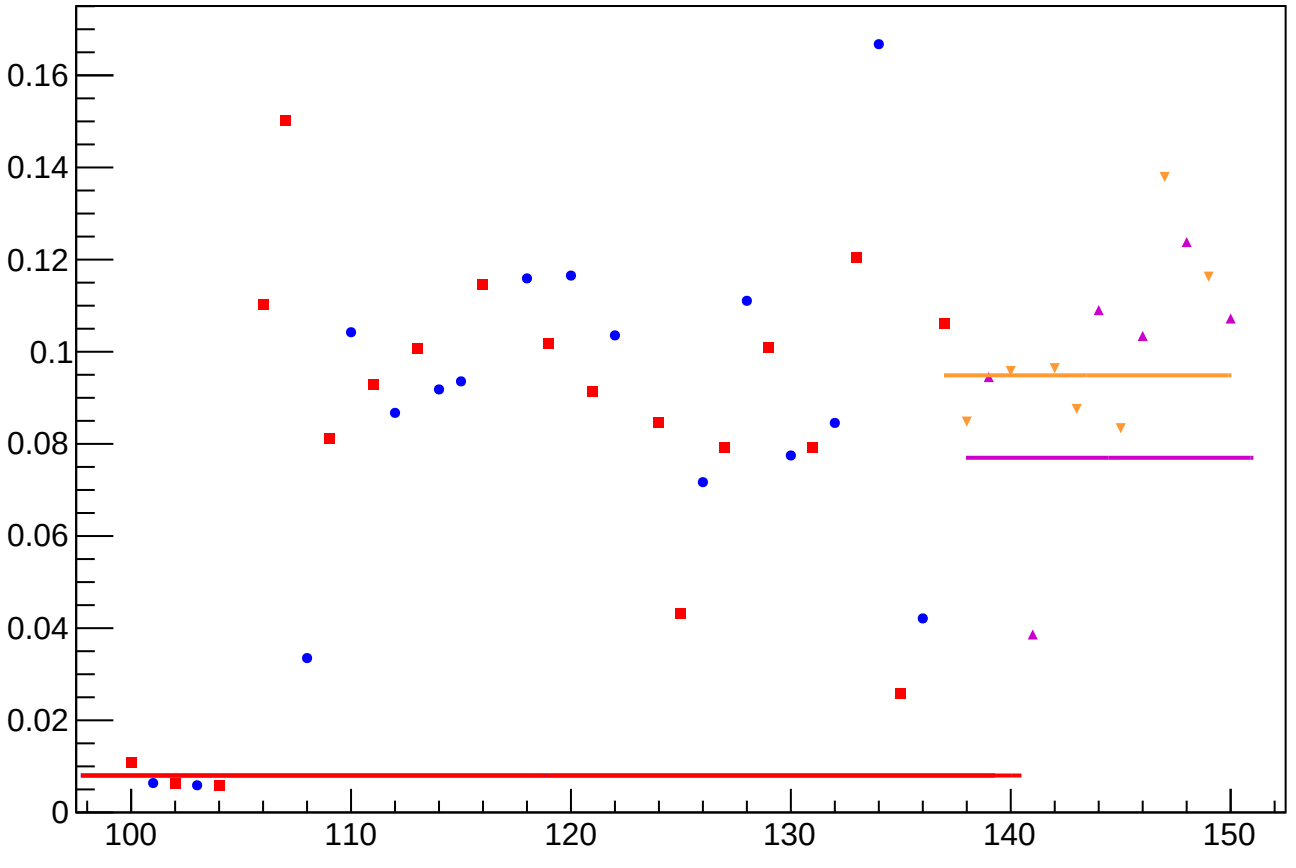
Left: 1.829+/-0.000 $\chi^2$/NDF: 54799372.8/12

Right: 3.277+/-0.000 $\chi^2$/NDF: 6269939296.1/34

In: 3.235+/-0.000 $\chi^2$/NDF:4171627704.4/21

Out: 3.267+/-0.000 $\chi^2$/NDF:4411863203.9/25

All: 3.251+/-0.000 $\chi^2$/NDF: 8600064459.5/47




Right In: 0.008+/-0.000 $\chi^2$/NDF: 8415681.1/15

Left Out: 0.095+/-0.000 $\chi^2$/NDF:248907.9/6

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 8542249.7/18

Left In: 0.077+/-0.000 $\chi^2$/NDF:1353010.9/5

Left: 0.086+/-0.000 $\chi^2$/NDF: 1778457.6/12

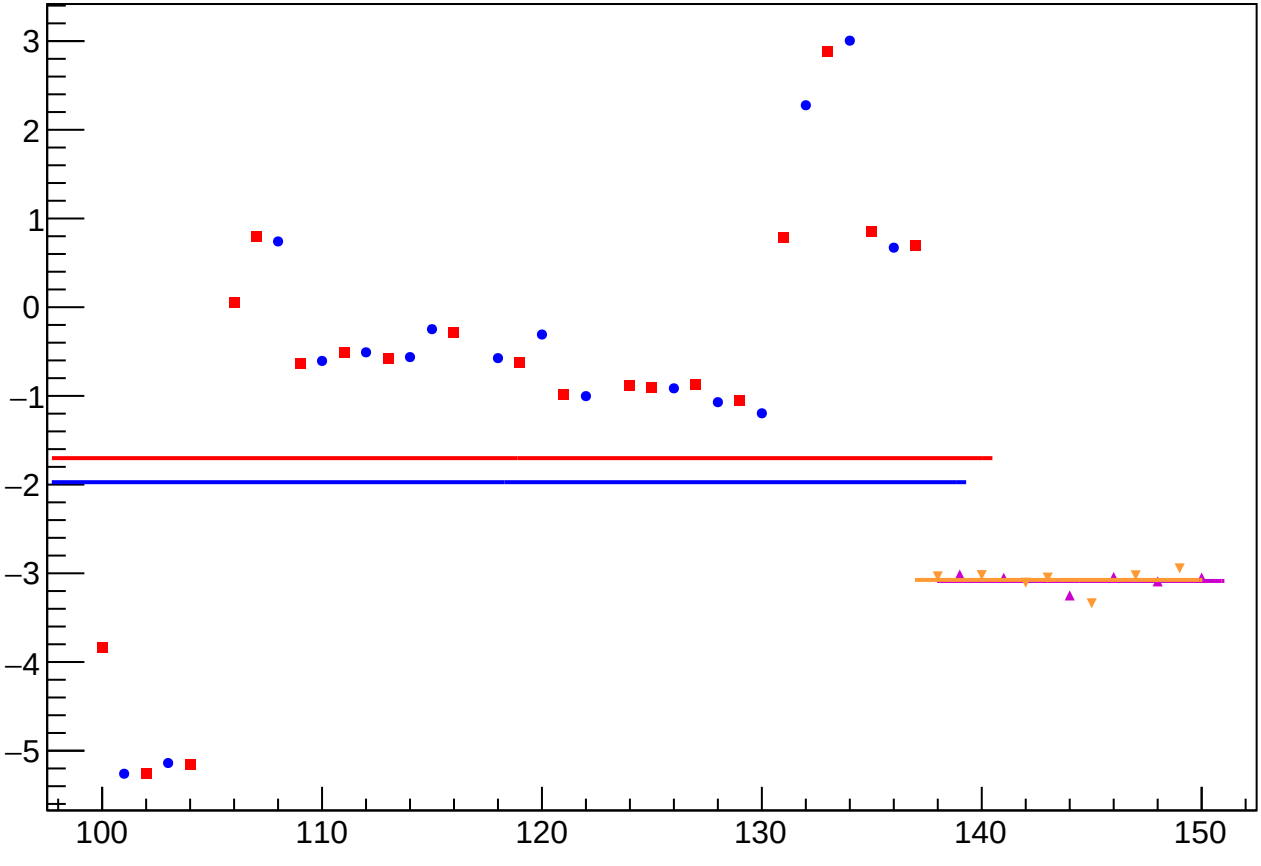
Right: 0.008+/-0.000 $\chi^2$/NDF: 16957931.3/34

In: 0.009+/-0.000 $\chi^2$/NDF:15180384.6/21

Out: 0.010+/-0.000 $\chi^2$/NDF:16585822.9/25

All: 0.009+/-0.000 $\chi^2$/NDF: 31768368.1/47

# yield_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -1.973+/-0.000 $\chi^2$/NDF: 161975701237.3/15

Left Out: -3.075+/-0.000 $\chi^2$/NDF:1168126449.5/6

Right Out: -1.702+/-0.000 $\chi^2$/NDF: 168156981746.0/18

Left In: -3.086+/-0.000 $\chi^2$/NDF:522469992.3/5

Left: -3.080+/-0.000 $\chi^2$/NDF: 1695918684.1/12

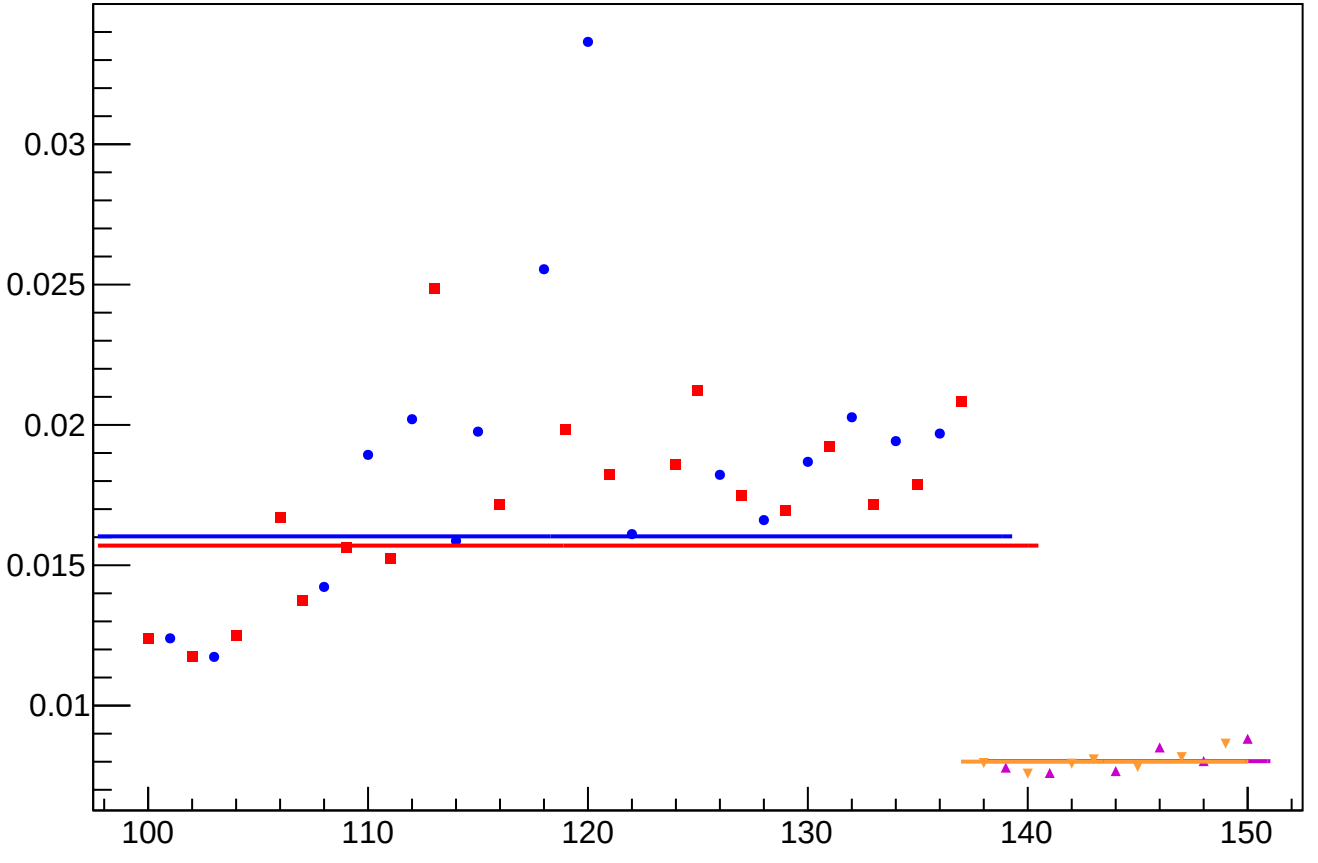
Right: -1.828+/-0.000 $\chi^2$/NDF: 331019535290.3/34

In: -2.836+/-0.000 $\chi^2$/NDF:184283077369.0/21

Out: -2.739+/-0.000 $\chi^2$/NDF:206123172519.3/25

All: -2.787+/-0.000 $\chi^2$/NDF: 390893916212.3

# yield_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 0.016+/-0.000 $\chi^2$/NDF: 735736.8/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:15747.5/6

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 504766.0/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:30123.8/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 45894.6/12

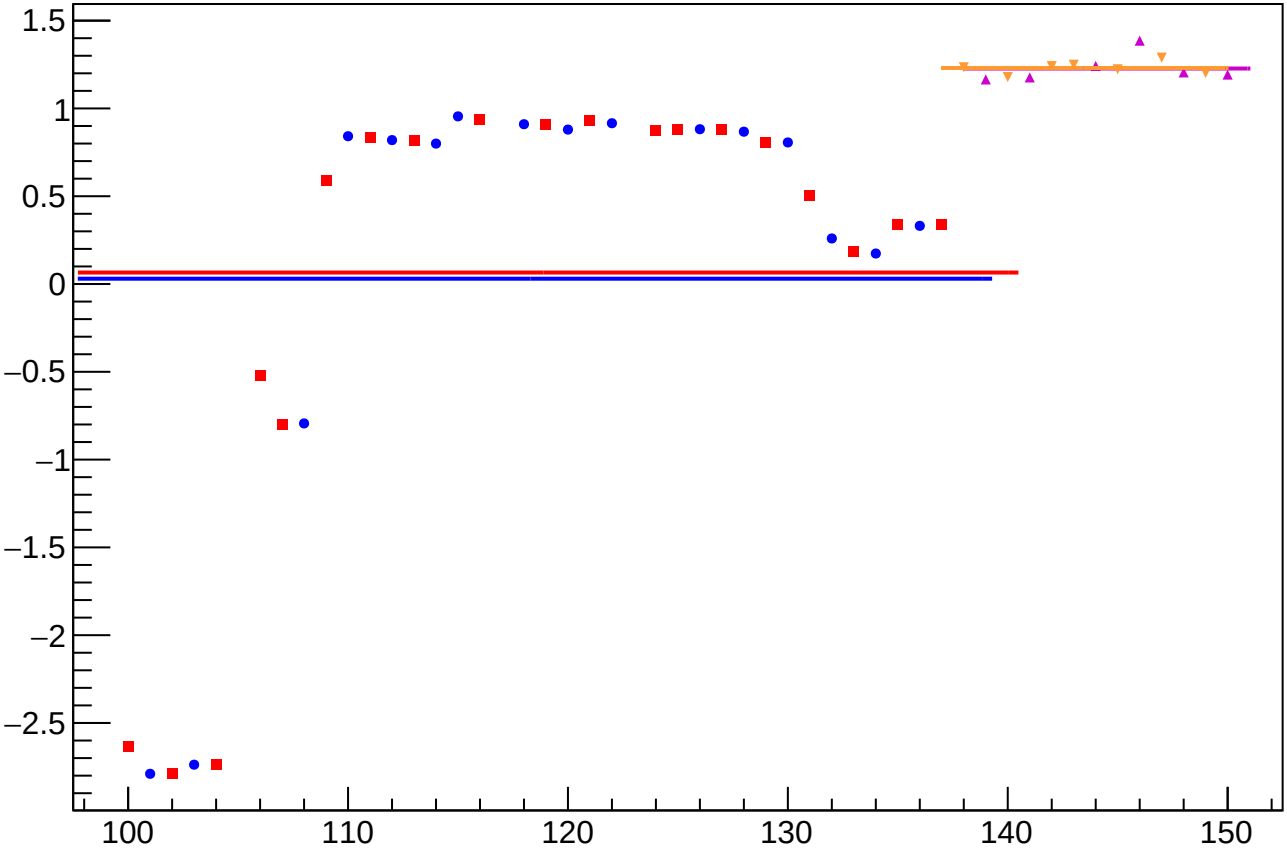
Right: 0.016+/-0.000 $\chi^2$/NDF: 1243118.0/34

In: 0.010+/-0.000 $\chi^2$/NDF:3019875.9/21

Out: 0.010+/-0.000 $\chi^2$/NDF:2833477.6/25

All: 0.010+/-0.000 $\chi^2$/NDF: 5853805.6/47

# yield_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 851677270962.0/15

Left Out: 1.230+/-0.000 $\chi^2$/NDF:82951647.9/6

Right Out: 0.065+/-0.000 $\chi^2$/NDF: 935478930138.7/18

Left In: 1.227+/-0.000 $\chi^2$/NDF:356249713.7/5

Left: 1.229+/-0.000 $\chi^2$/NDF: 439519789.5/12

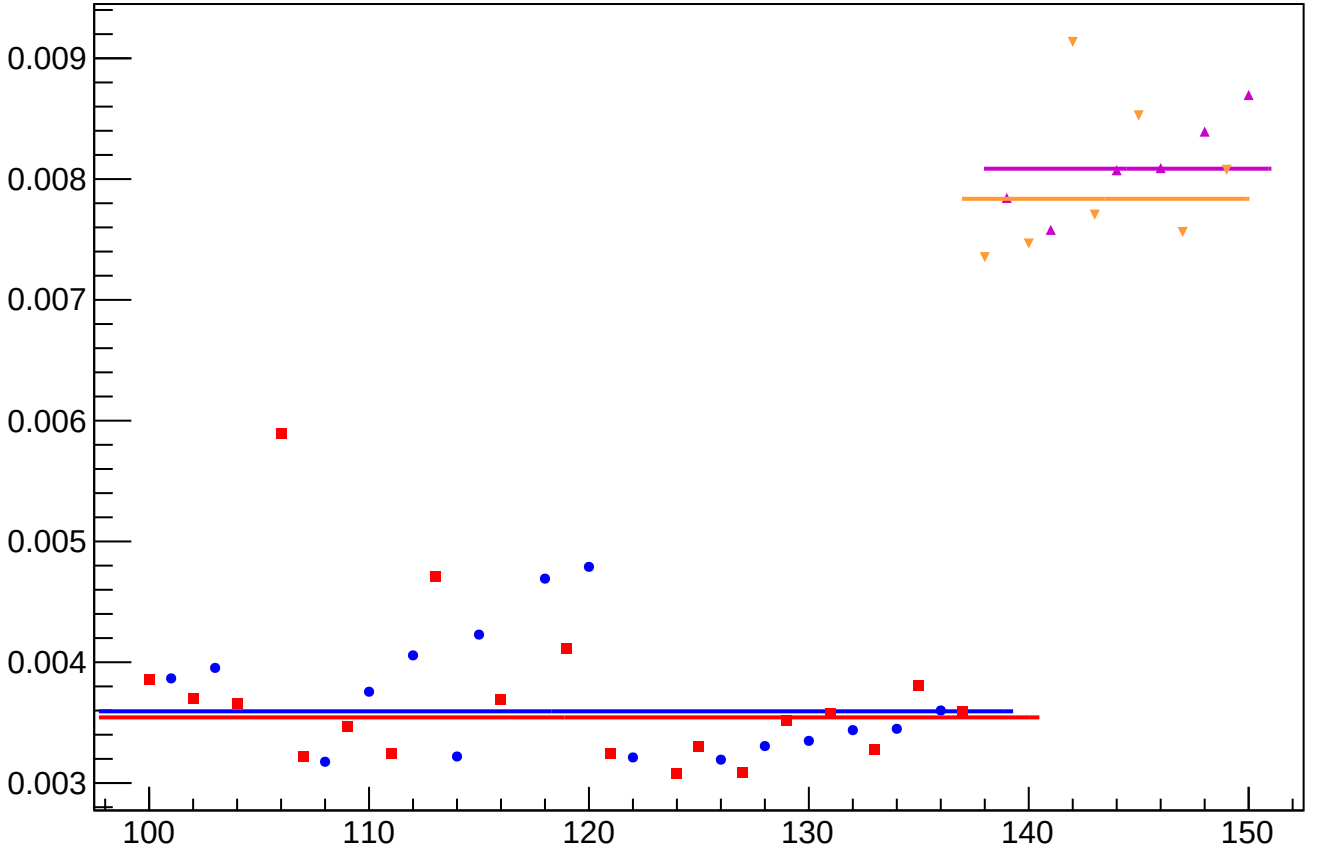
Right: 0.048+/-0.000 $\chi^2$/NDF: 1787488269945.7/34

In: 0.162+/-0.000 $\chi^2$/NDF:934089717906.0/21

Out: 0.191+/-0.000 $\chi^2$/NDF:1017427231796.5/25

All: 0.177+/-0.000 $\chi^2$/NDF: 1951772827681.

# yield_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 180415.0/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:34536.9/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 224729.1/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:16549.5/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 55188.1/12

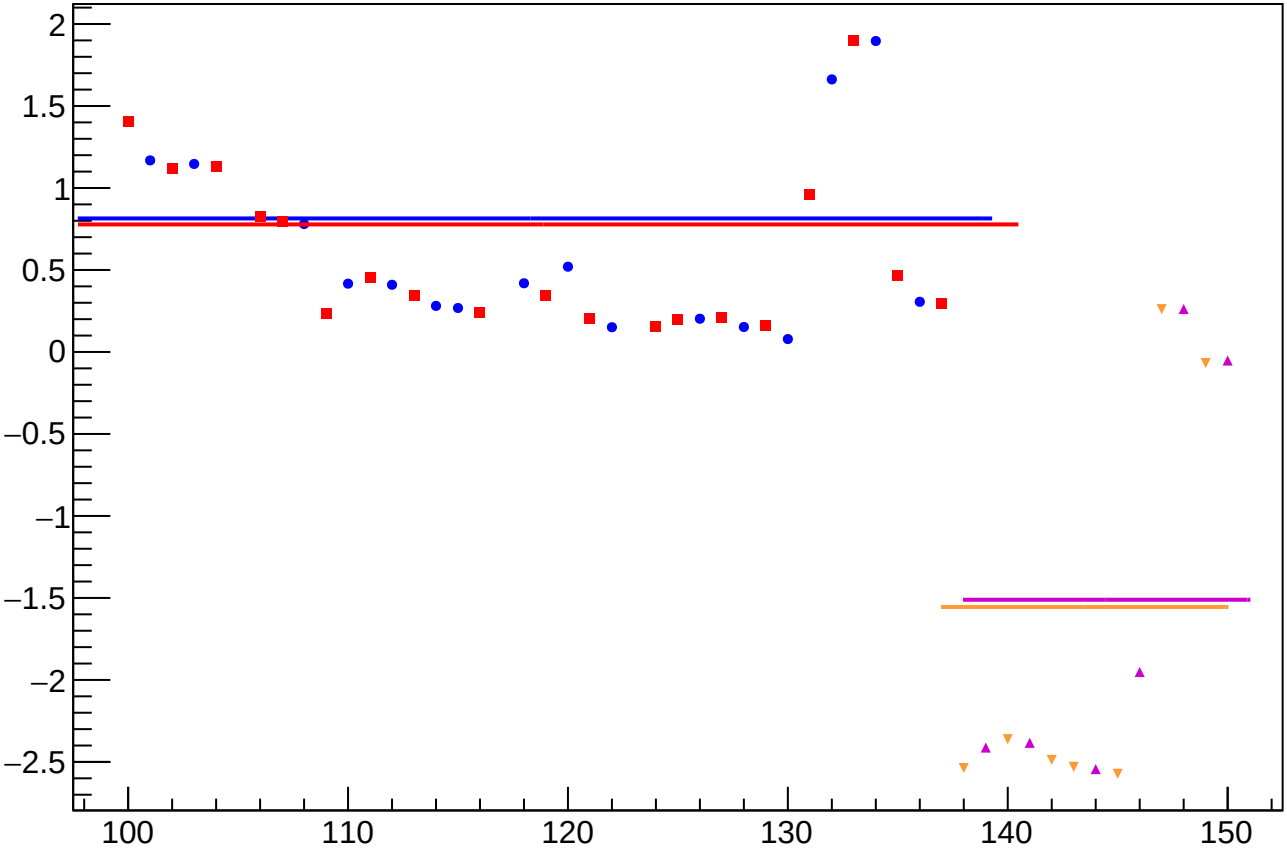
Right: 0.004+/-0.000 $\chi^2$/NDF: 406509.3/34

In: 0.004+/-0.000 $\chi^2$/NDF:2508231.5/21

Out: 0.004+/-0.000 $\chi^2$/NDF:2482467.1/25

All: 0.004+/-0.000 $\chi^2$/NDF: 4994709.9/47

# yield_bpm0l05X_mean vs Slug, Sign Corrected




Right In: 0.814+/-0.000 $\chi^2$/NDF: 35412149008.2/15

Left Out: -1.555+/-0.000 $\chi^2$/NDF:141057029503.6/6

Right Out: 0.778+/-0.000 $\chi^2$/NDF: 34603328062.2/18

Left In: -1.511+/-0.000 $\chi^2$/NDF:112566689601.5/5

Left: -1.534+/-0.000 $\chi^2$/NDF: 253711999080.5/12

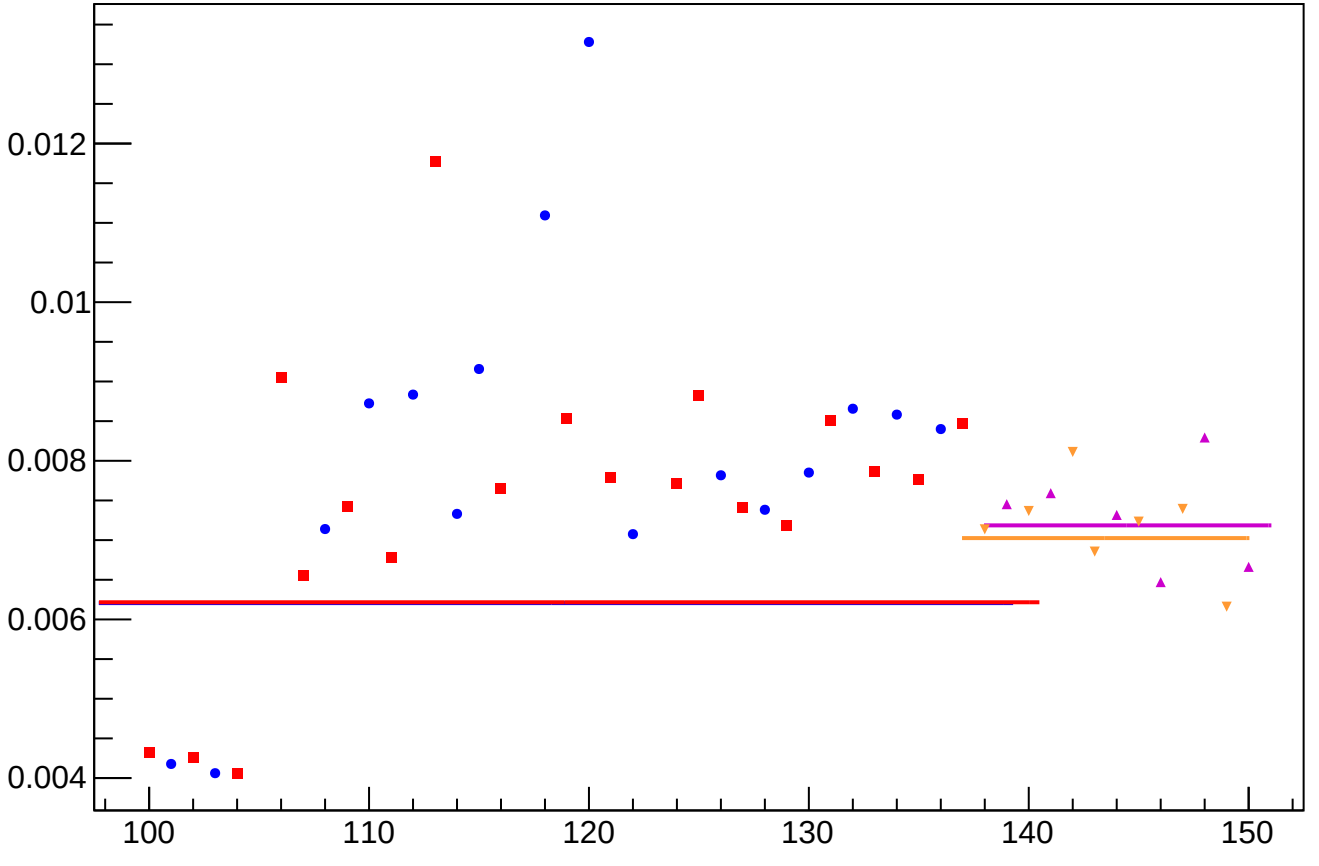
Right: 0.795+/-0.000 $\chi^2$/NDF: 70115223181.3/34

In: -0.067+/-0.000 $\chi^2$/NDF:443812377975.2/21

Out: -0.085+/-0.000 $\chi^2$/NDF:488622393191.3/25

All: -0.076+/-0.000 $\chi^2$/NDF: 932472405311.

# yield_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 1423886.1/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:51714.2/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1161117.9/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:63105.1/5

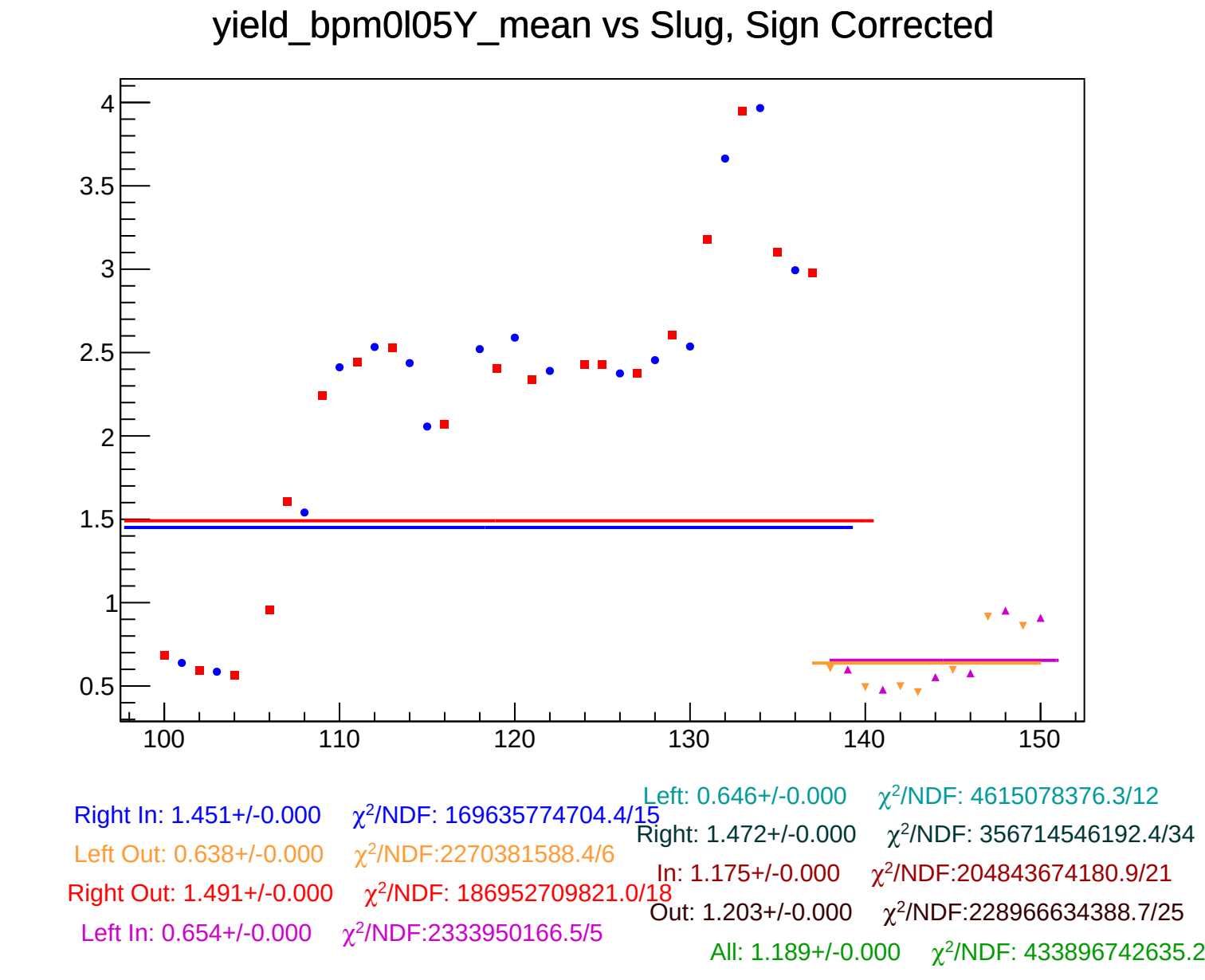
Left: 0.007+/-0.000 $\chi^2$/NDF: 117124.1/12

Right: 0.006+/-0.000 $\chi^2$/NDF: 2585020.0/34

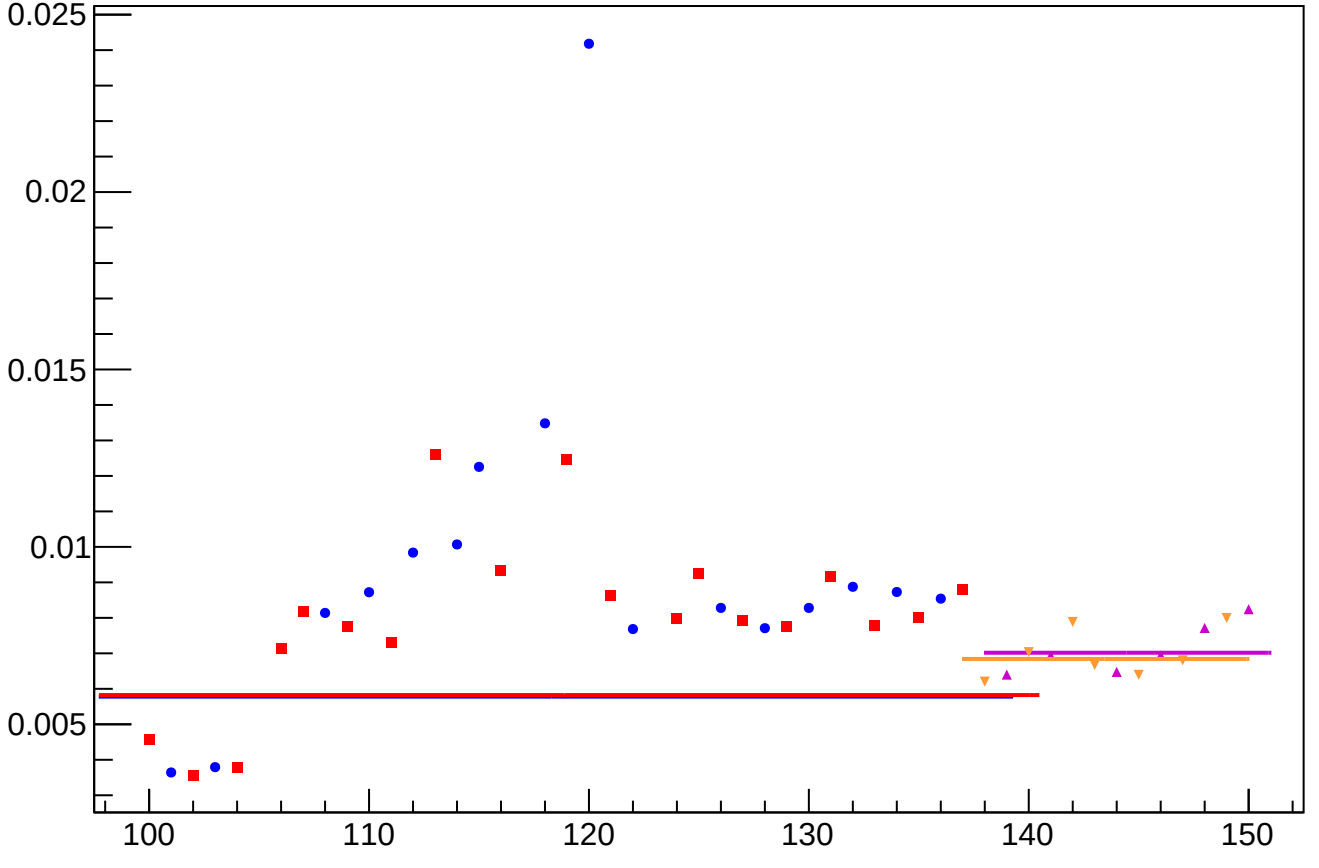
In: 0.007+/-0.000 $\chi^2$/NDF:1592043.5/21

Out: 0.007+/-0.000 $\chi^2$/NDF:1288110.7/25

All: 0.007+/-0.000 $\chi^2$/NDF: 2881071.8/47


yield_bpm0l05Y_mean vs Slug, Sign Corrected
4
3.5
3
2.5
2
1.5
1
0.5
100
110
120
130
140
150
Right In: 1.451+/-0.000 χ²/NDF: 169635774704.4/15
Left Out: 0.638+/-0.000 χ²/NDF:2270381588.4/6
Right Out: 1.491+/-0.000 χ²/NDF: 186952709821.0/18
Left In: 0.654+/-0.000 χ²/NDF:2333950166.5/5
Left: 0.646+/-0.000 χ²/NDF: 4615078376.3/12
Right: 1.472+/-0.000 χ²/NDF: 356714546192.4/34
In: 1.175+/-0.000 χ²/NDF:204843674180.9/21
Out: 1.203+/-0.000 χ²/NDF:228966634388.7/25
All: 1.189+/-0.000 χ²/NDF: 433896742635.2

# yield_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 2213885.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:56724.1/6

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1955751.4/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:61983.7/5

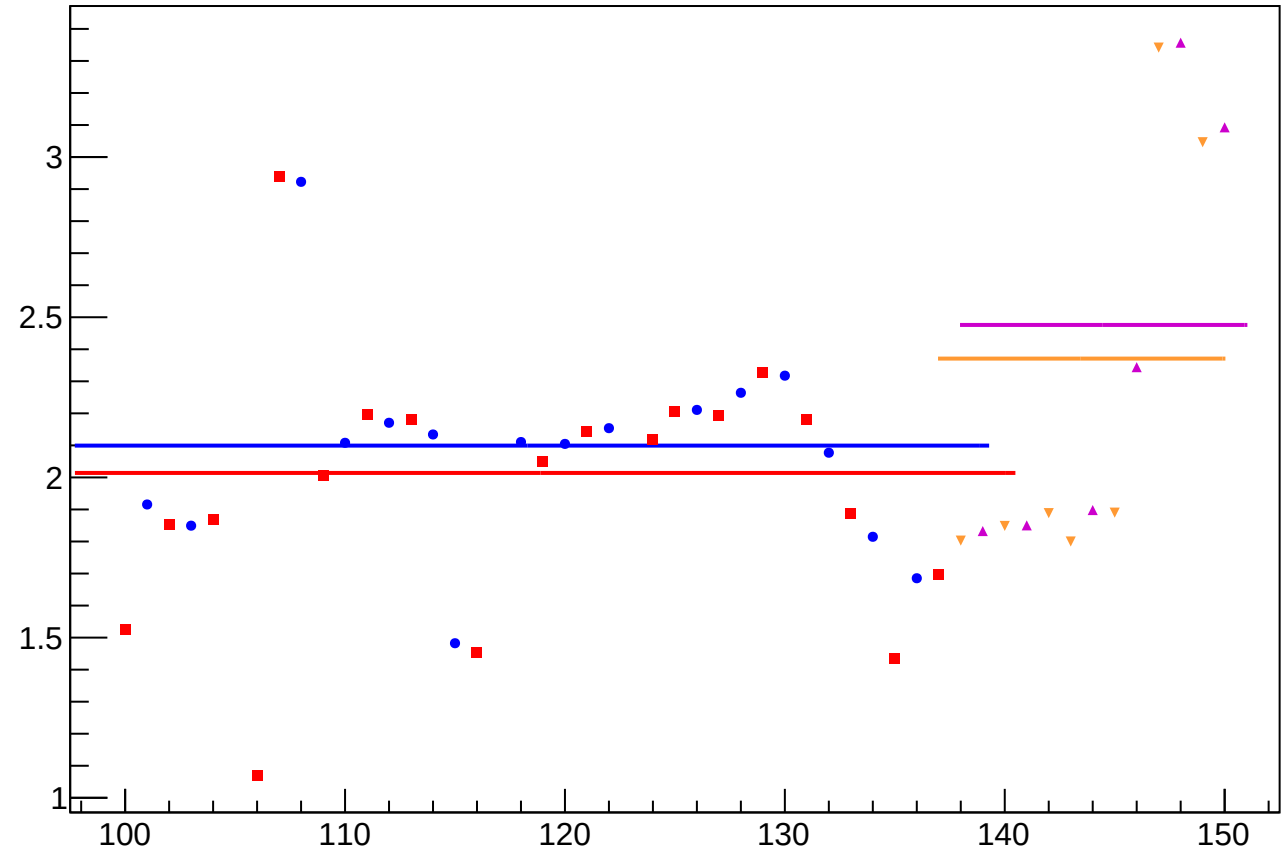
Left: 0.007+/-0.000 $\chi^2$/NDF: 121202.5/12

Right: 0.006+/-0.000 $\chi^2$/NDF: 4169928.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:2434323.5/21

Out: 0.006+/-0.000 $\chi^2$/NDF:2125563.8/25

All: 0.006+/-0.000 $\chi^2$/NDF: 4560264.6/47




Right In: 2.099+/-0.000 $\chi^2$/NDF: 13928556396.8/15

Left Out: 2.371+/-0.000 $\chi^2$/NDF:30513435905.7/6

Right Out: 2.014+/-0.000 $\chi^2$/NDF: 19615856596.5/18

Left In: 2.476+/-0.000 $\chi^2$/NDF:26975847513.0/5

Left: 2.424+/-0.000 $\chi^2$/NDF: 57869719271.7/12

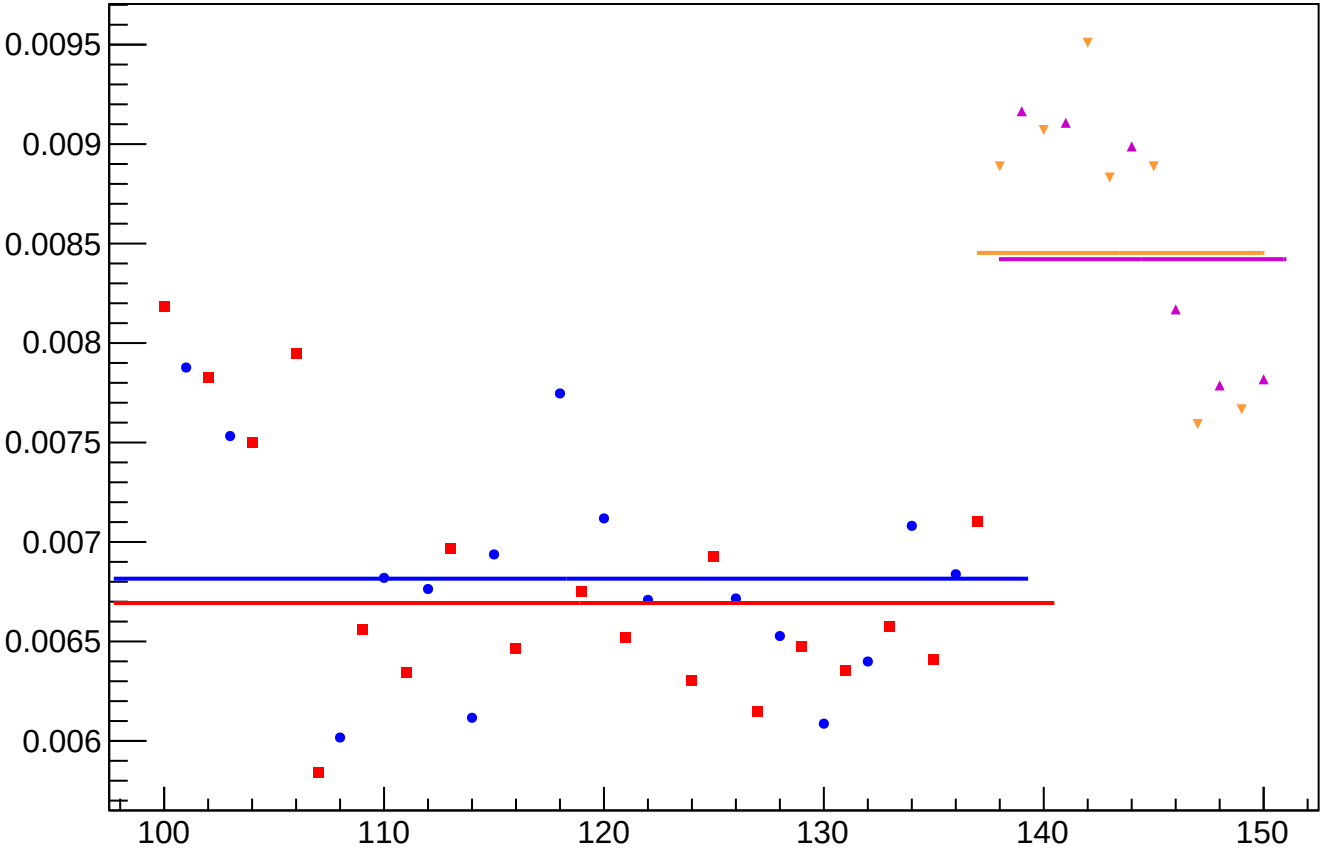
Right: 2.055+/-0.000 $\chi^2$/NDF: 34101176841.4/34

In: 2.220+/-0.000 $\chi^2$/NDF:47594133241.6/21

Out: 2.121+/-0.000 $\chi^2$/NDF:56232020788.6/25

All: 2.169+/-0.000 $\chi^2$/NDF: 104912117320.5

# yield_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 86781.0/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:63162.0/6

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 87876.9/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:48768.0/5

Left: 0.008+/-0.000 $\chi^2$/NDF: 111998.5/12

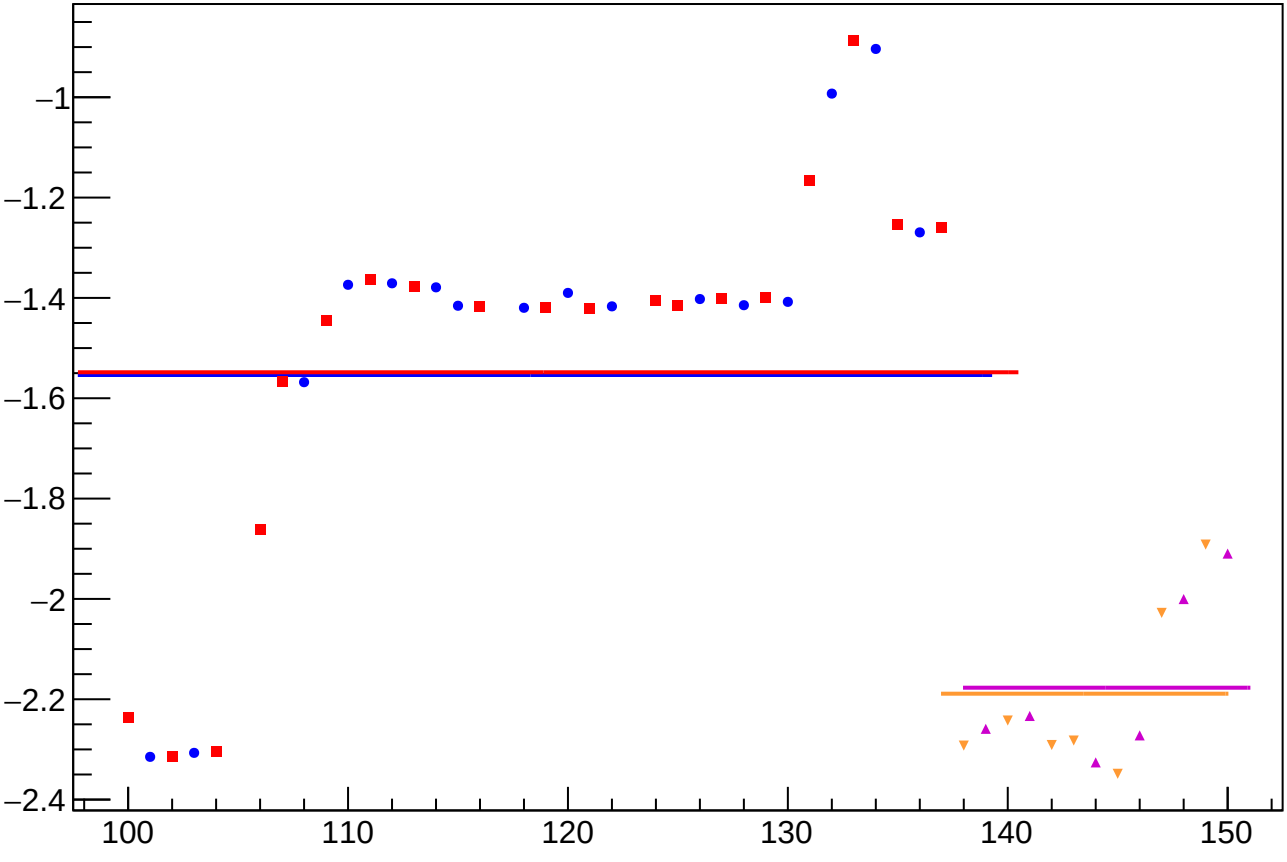
Right: 0.007+/-0.000 $\chi^2$/NDF: 176946.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:378816.7/21

Out: 0.007+/-0.000 $\chi^2$/NDF:447782.7/25

All: 0.007+/-0.000 $\chi^2$/NDF: 829225.5/47

# yield_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -1.554+/-0.000 $\chi^2$/NDF: 175176621986.0/15

Left Out: -2.189+/-0.000 $\chi^2$/NDF:11432767693.9/6

Right Out: -1.548+/-0.000 $\chi^2$/NDF: 174743666302.8/18

Left In: -2.177+/-0.000 $\chi^2$/NDF:10061350047.7/5

Left: -2.183+/-0.000 $\chi^2$/NDF: 21525799963.7/12

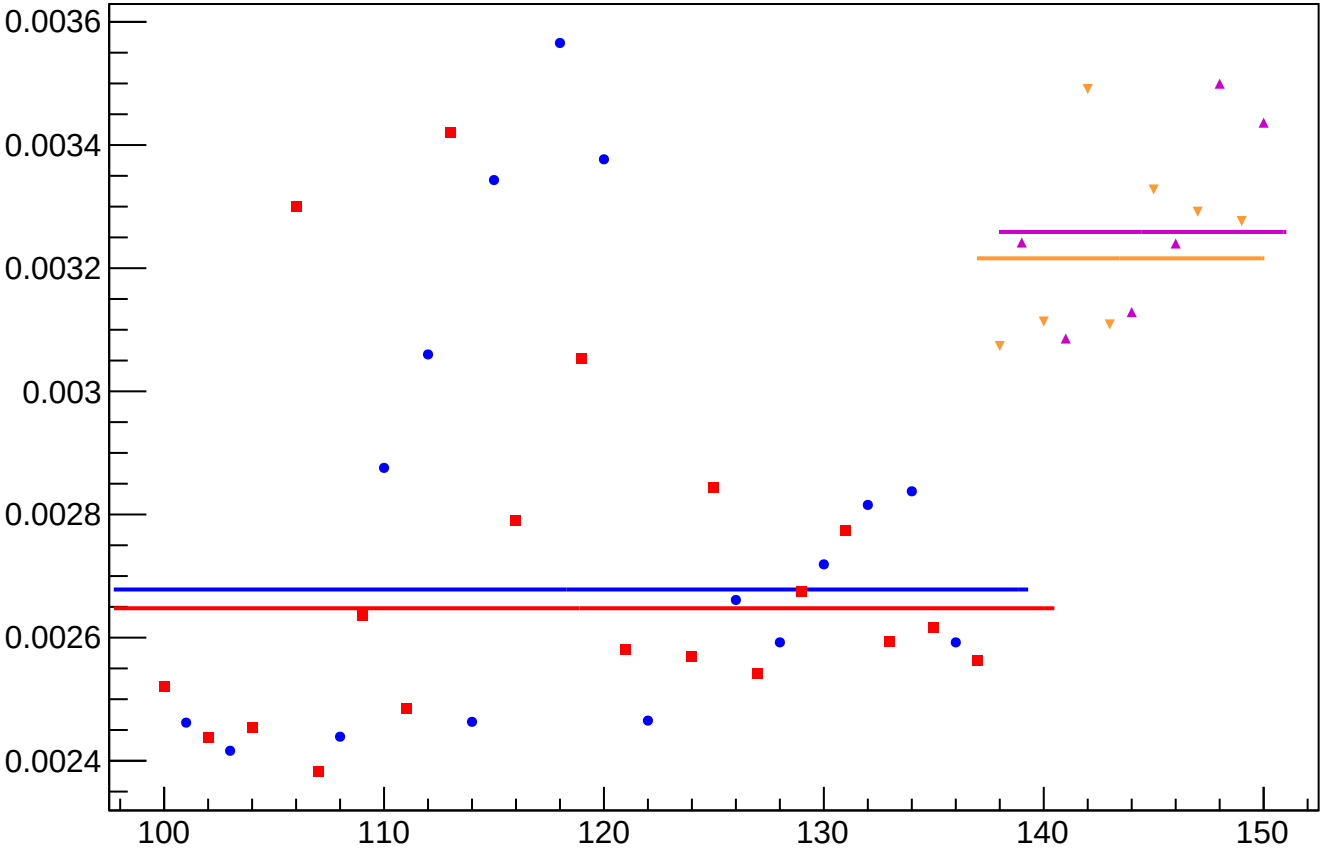
Right: -1.551+/-0.000 $\chi^2$/NDF: 349934542439.1/34

In: -1.753+/-0.000 $\chi^2$/NDF:301300521843.6/21

Out: -1.747+/-0.000 $\chi^2$/NDF:313598851603.3/25

All: -1.750+/-0.000 $\chi^2$/NDF: 614921795455.8

# yield_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 157881.5/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:13853.3/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 116150.5/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:19414.9/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 34083.0/12

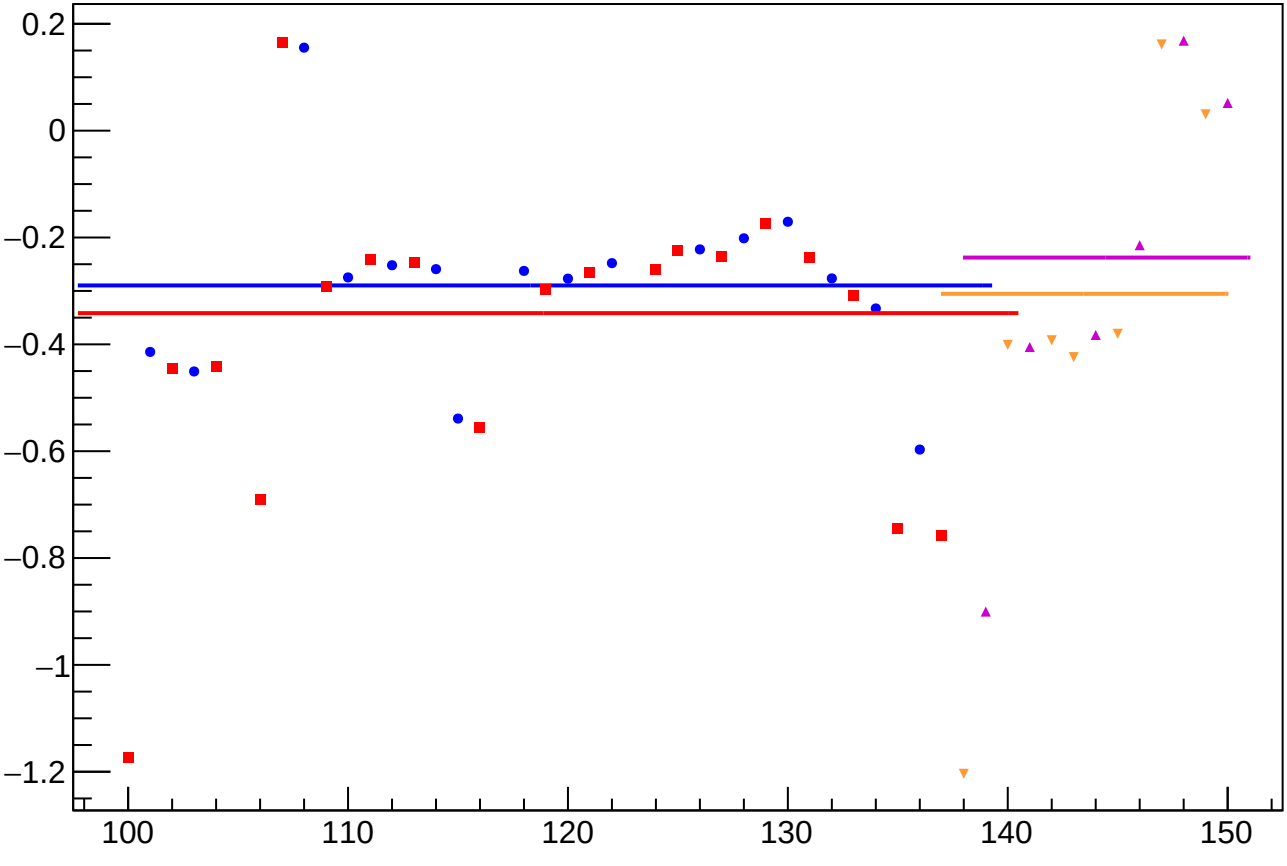
Right: 0.003+/-0.000 $\chi^2$/NDF: 274930.8/34

In: 0.003+/-0.000 $\chi^2$/NDF:378703.8/21

Out: 0.003+/-0.000 $\chi^2$/NDF:330487.4/25

All: 0.003+/-0.000 $\chi^2$/NDF: 711396.3/47

# yield_bpm0l07X_mean vs Slug, Sign Corrected




Right In: -0.290+/-0.000 $\chi^2$/NDF: 1645174238.4/15

Left Out: -0.305+/-0.000 $\chi^2$/NDF:4303999503.5/6

Right Out: -0.342+/-0.000 $\chi^2$/NDF: 2609243421.7/18

Left In: -0.238+/-0.000 $\chi^2$/NDF:2952167222.5/5

Left: -0.271+/-0.000 $\chi^2$/NDF: 7314458511.8/12

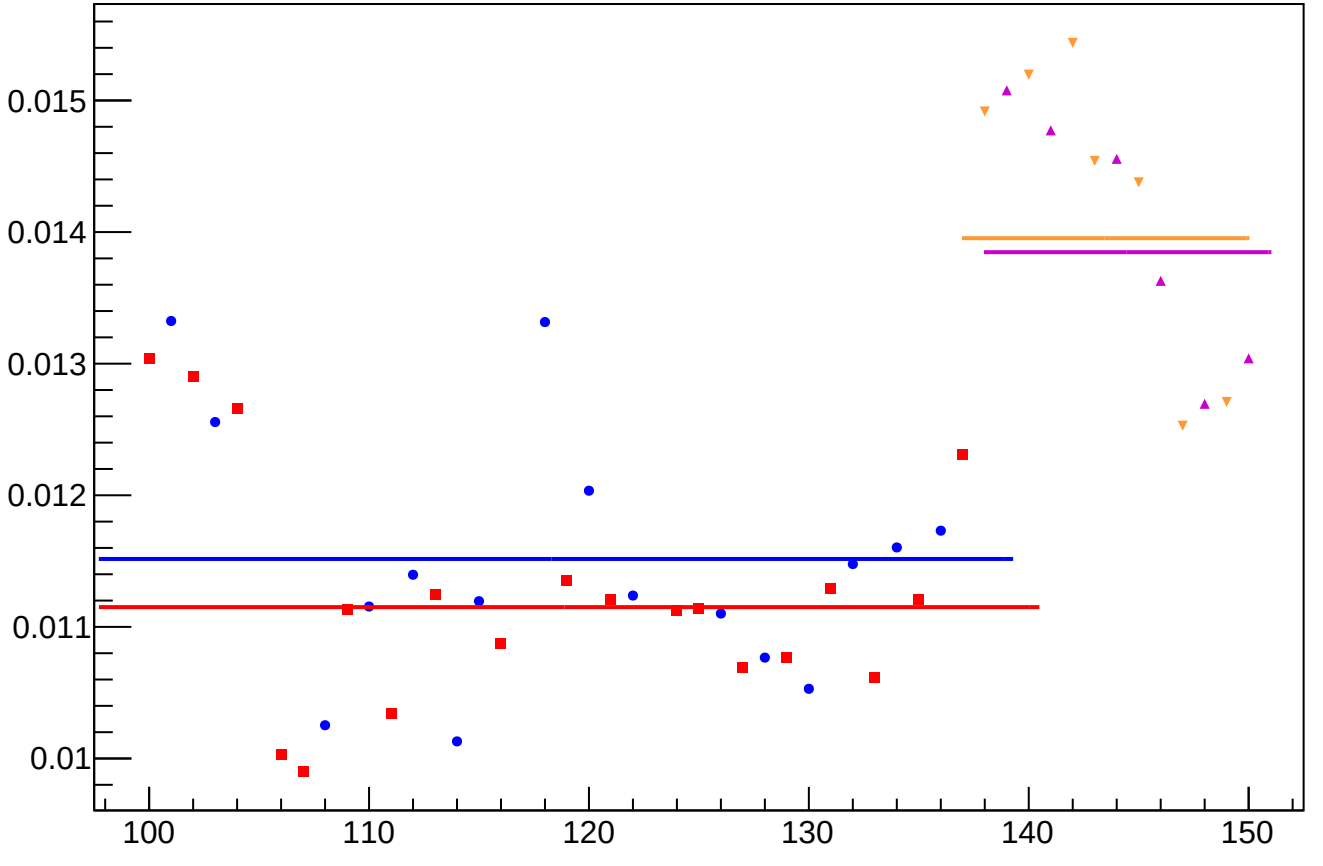
Right: -0.317+/-0.000 $\chi^2$/NDF: 4328413510.6/34

In: -0.273+/-0.000 $\chi^2$/NDF:4643860727.9/21

Out: -0.331+/-0.000 $\chi^2$/NDF:6936238043.9/25

All: -0.303+/-0.000 $\chi^2$/NDF: 11715724328.8/

# yield_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 84278.9/15

Left Out: 0.014+/-0.000 $\chi^2$/NDF:62735.8/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 70560.1/18

Left In: 0.014+/-0.000 $\chi^2$/NDF:40871.4/5

Left: 0.014+/-0.000 $\chi^2$/NDF: 103893.7/12

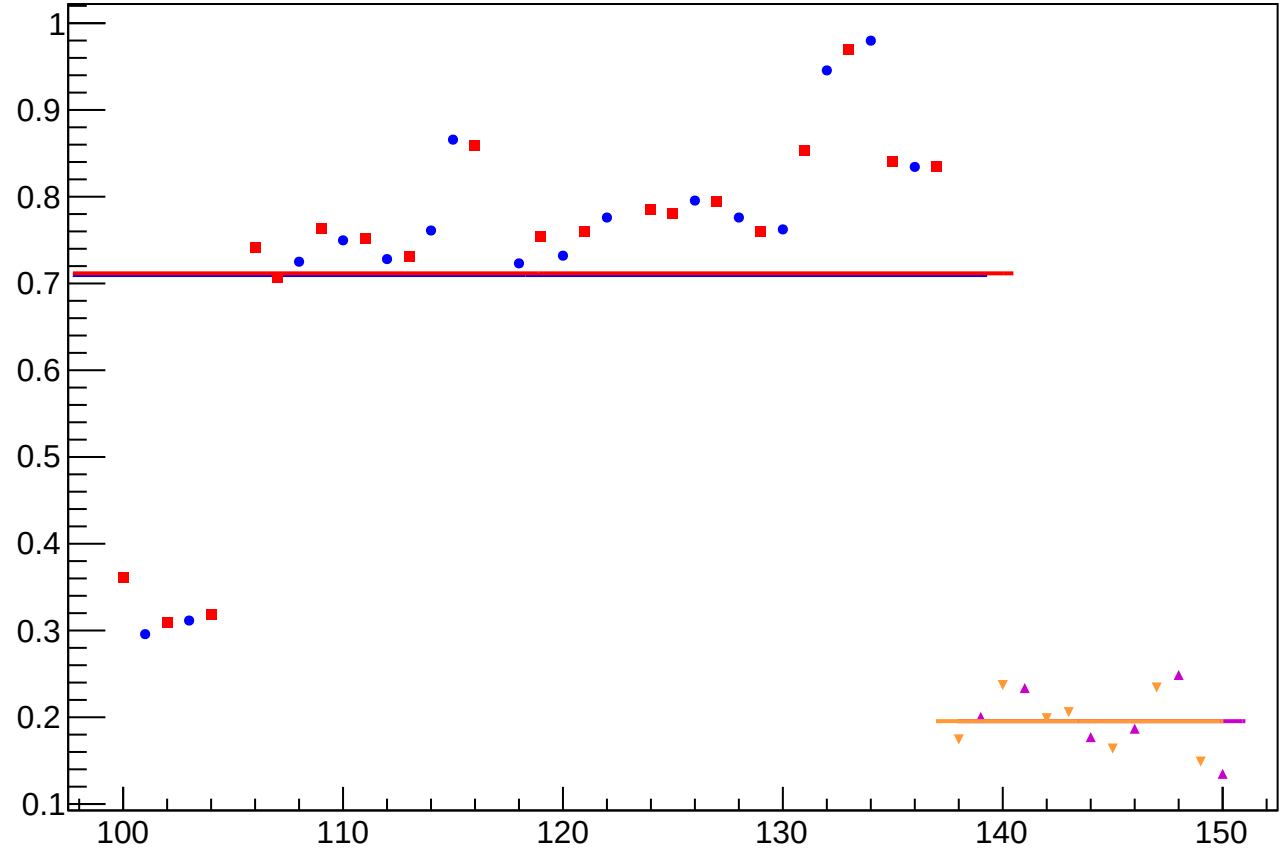
Right: 0.011+/-0.000 $\chi^2$/NDF: 162212.6/34

In: 0.012+/-0.000 $\chi^2$/NDF:311128.1/21

Out: 0.012+/-0.000 $\chi^2$/NDF:409860.0/25

All: 0.012+/-0.000 $\chi^2$/NDF: 727563.8/47

# yield_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: 0.710+/-0.000 $\chi^2$/NDF: 48924347494.6/15

Left Out: 0.196+/-0.000 $\chi^2$/NDF:1263955138.1/6

Right Out: 0.712+/-0.000 $\chi^2$/NDF: 44174681920.8/18

Left In: 0.196+/-0.000 $\chi^2$/NDF:1571479312.9/5

Left: 0.196+/-0.000 $\chi^2$/NDF: 2835434486.2/12

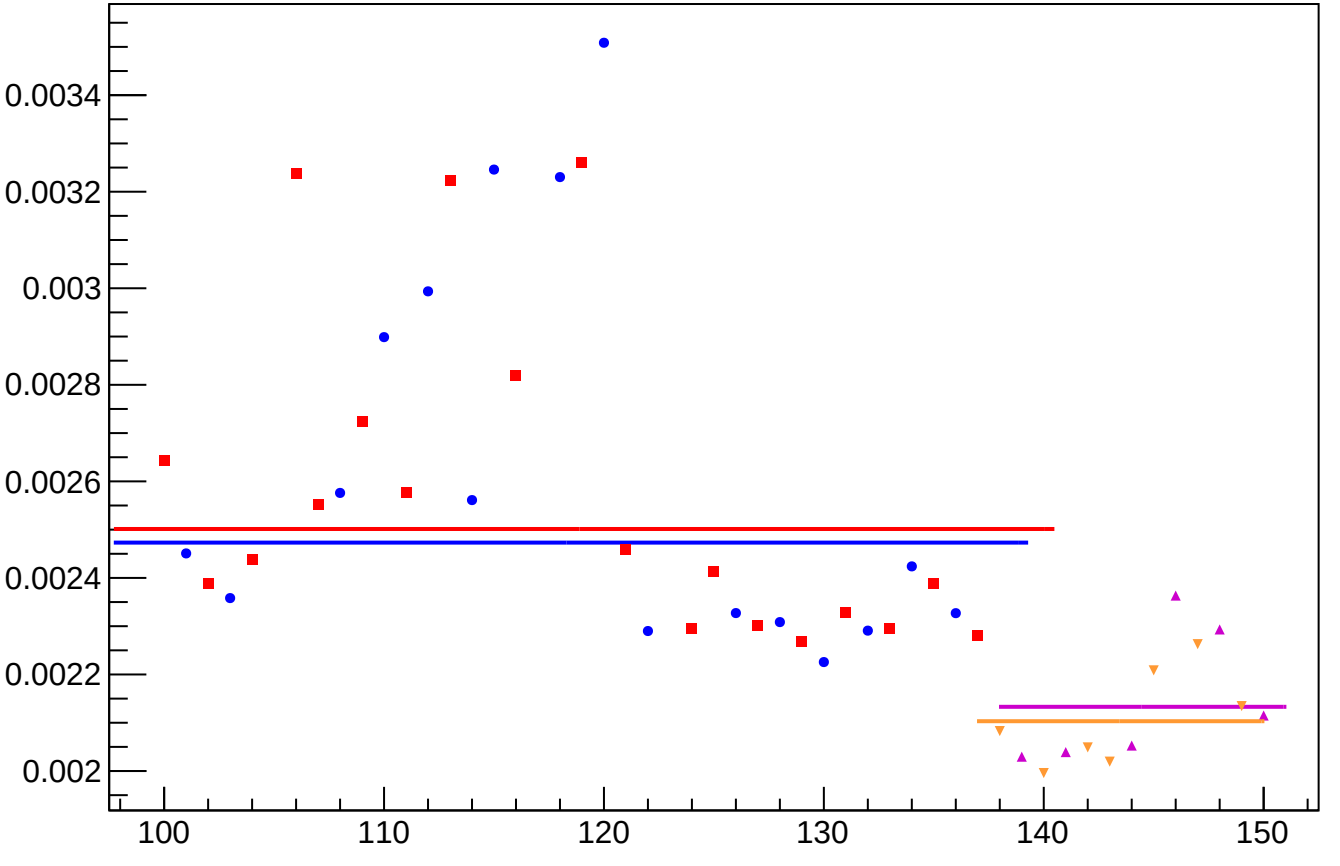
Right: 0.711+/-0.000 $\chi^2$/NDF: 93101138571.1/34

In: 0.450+/-0.000 $\chi^2$/NDF:199551847485.4/21

Out: 0.446+/-0.000 $\chi^2$/NDF:199805106231.0/25

All: 0.448+/-0.000 $\chi^2$/NDF: 399375662949.9

# yield_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 208046.5/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:20527.8/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 177427.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:35741.6/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 57308.2/12

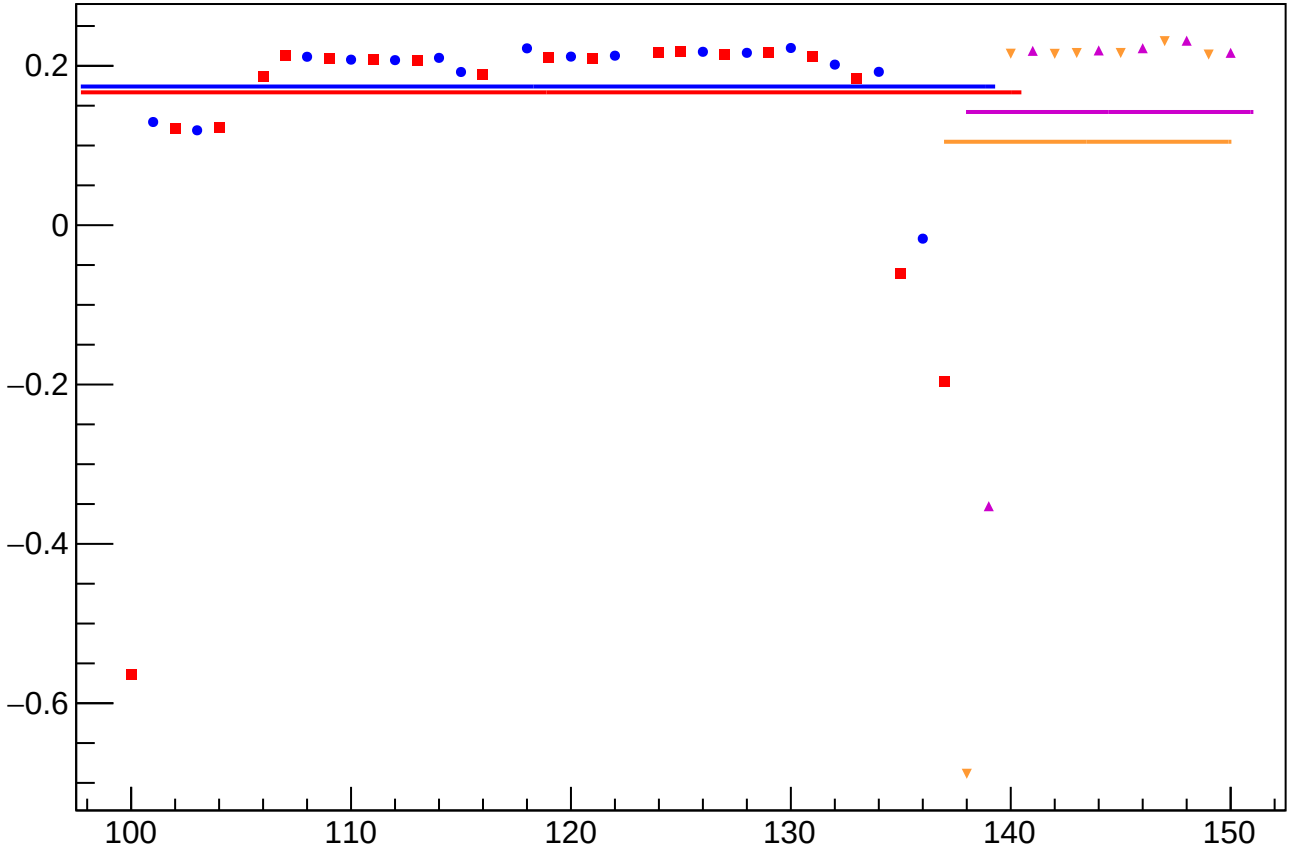
Right: 0.002+/-0.000 $\chi^2$/NDF: 386364.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:374222.4/21

Out: 0.002+/-0.000 $\chi^2$/NDF:381686.0/25

All: 0.002+/-0.000 $\chi^2$/NDF: 755965.6/47

# yield_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 0.174+/-0.000 $\chi^2$/NDF: 401946344.0/15

Left Out: 0.105+/-0.000 $\chi^2$/NDF:2802675194.6/6

Right Out: 0.167+/-0.000 $\chi^2$/NDF: 894131198.6/18

Left In: 0.142+/-0.000 $\chi^2$/NDF:1233226102.1/5

Left: 0.123+/-0.000 $\chi^2$/NDF: 4057593870.5/12

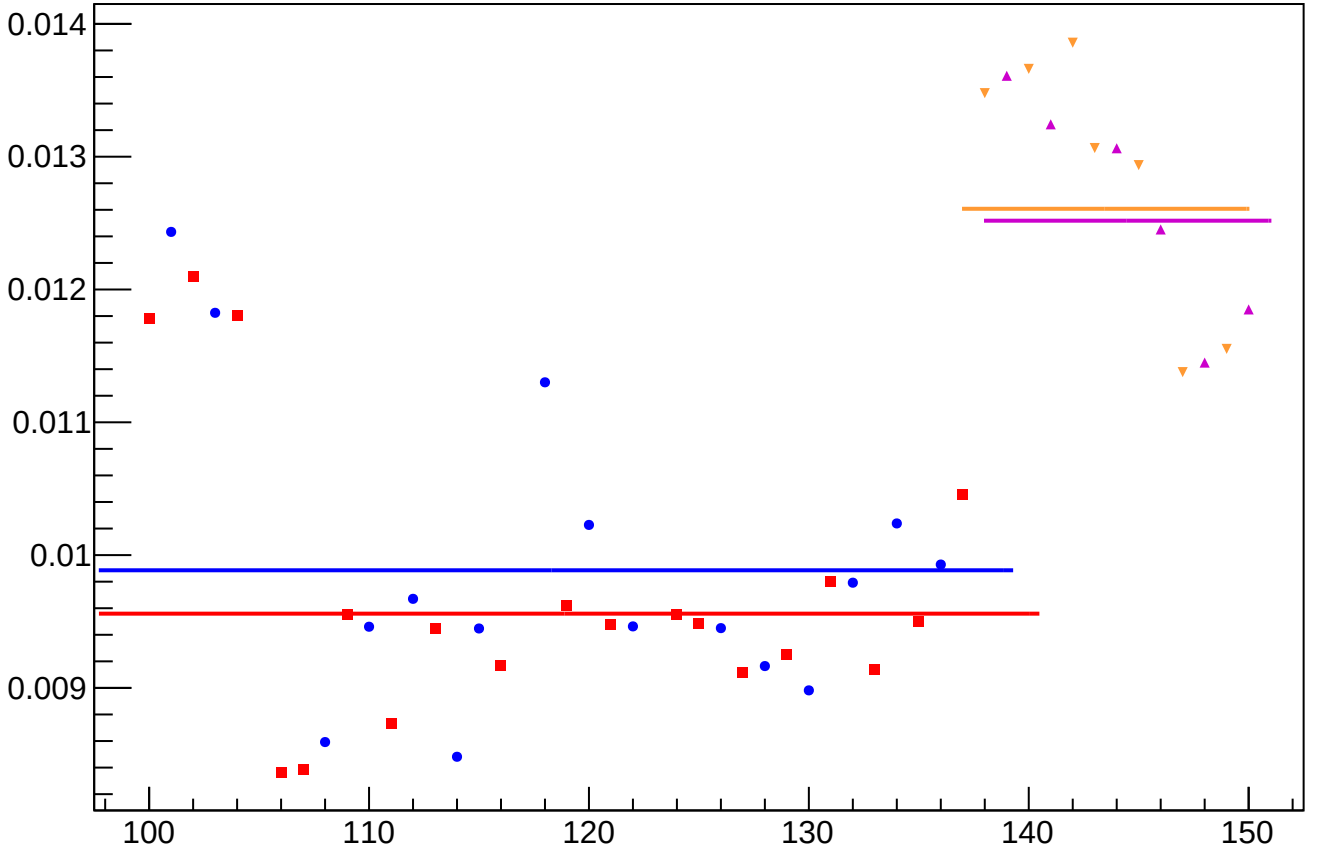
Right: 0.170+/-0.000 $\chi^2$/NDF: 1298066263.7/34

In: 0.164+/-0.000 $\chi^2$/NDF:1657272742.5/21

Out: 0.149+/-0.000 $\chi^2$/NDF:3782287439.3/25

All: 0.156+/-0.000 $\chi^2$/NDF: 5451362587.4/47

# yield_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 148562.0/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:55987.7/6

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 136197.0/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:37318.3/5

Left: 0.013+/-0.000 $\chi^2$/NDF: 93556.1/12

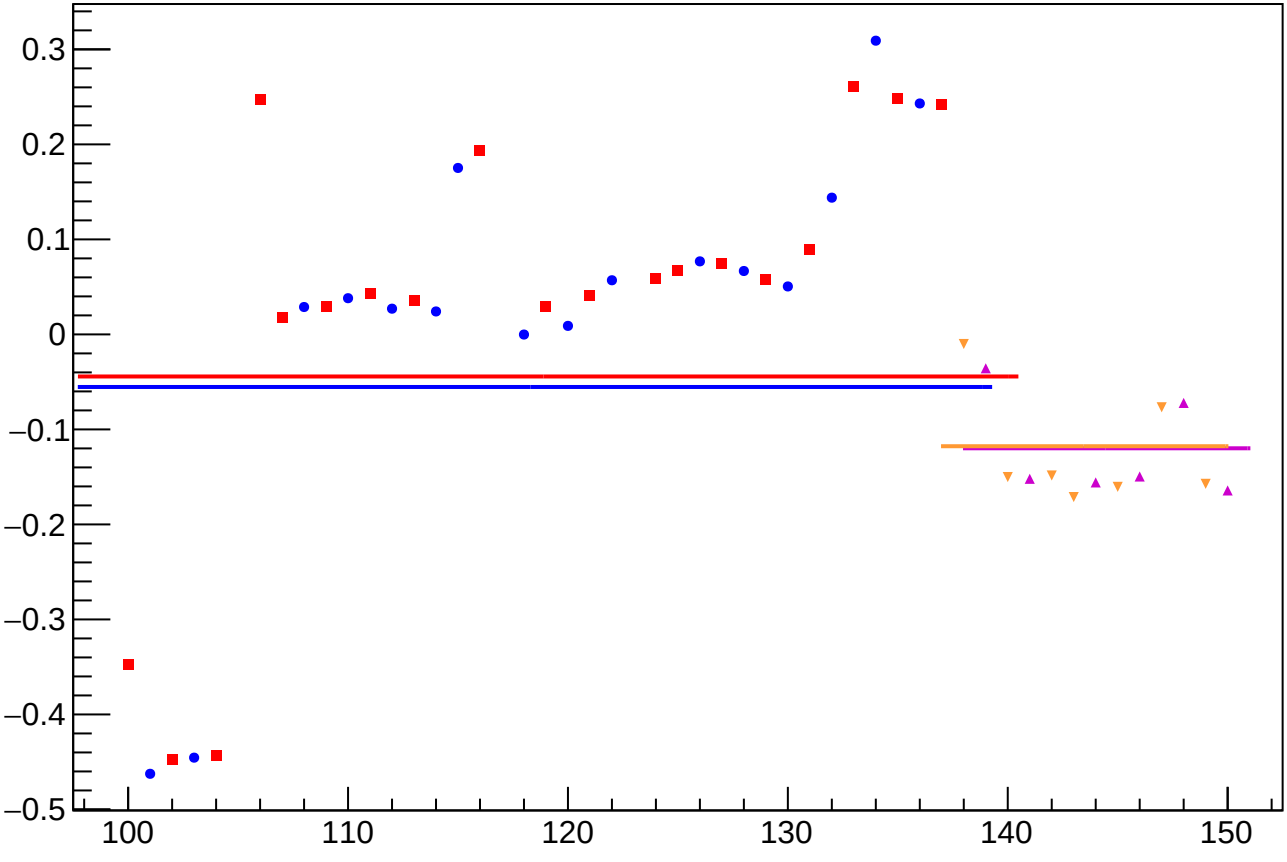
Right: 0.010+/-0.000 $\chi^2$/NDF: 292678.0/34

In: 0.011+/-0.000 $\chi^2$/NDF:485373.4/21

Out: 0.010+/-0.000 $\chi^2$/NDF:605336.8/25

All: 0.011+/-0.000 $\chi^2$/NDF: 1098814.5/47

# yield_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.000 $\chi^2$/NDF: 24081939190.6/15

Left Out: -0.118+/-0.000 $\chi^2$/NDF:1801183823.9/6

Right Out: -0.044+/-0.000 $\chi^2$/NDF: 22136167141.7/18

Left In: -0.120+/-0.000 $\chi^2$/NDF:1304634468.8/5

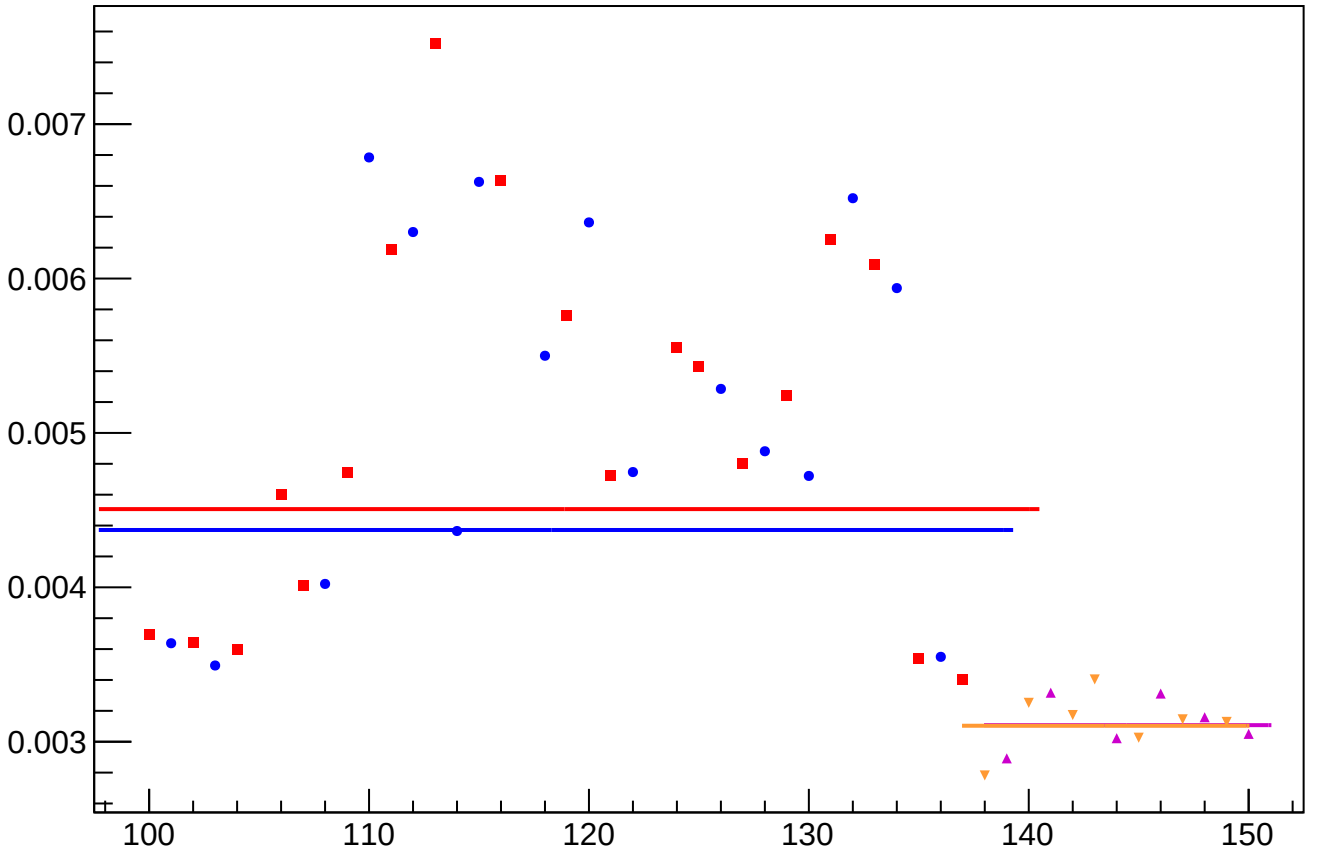
Left: -0.119+/-0.000 $\chi^2$/NDF: 3107016202.4/12

Right: -0.050+/-0.000 $\chi^2$/NDF: 46237436160.9/34

In: -0.095+/-0.000 $\chi^2$/NDF:26200703596.5/21

Out: -0.090+/-0.000 $\chi^2$/NDF:24986021916.5/25

All: -0.092+/-0.000 $\chi^2$/NDF: 51197677010.5/




Right In: 0.004+/-0.000 $\chi^2$/NDF: 660432.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:35665.7/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 704549.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:23721.0/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 59394.2/12

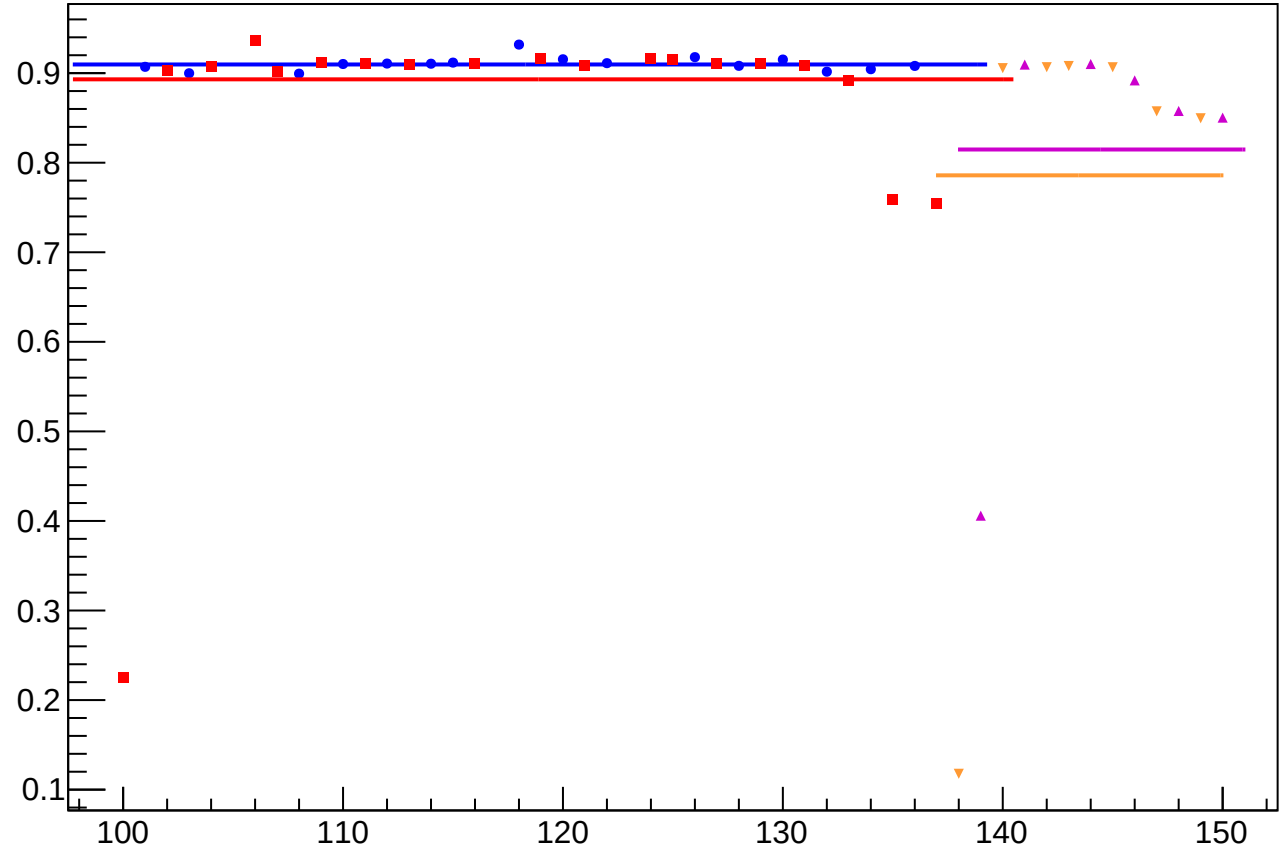
Right: 0.004+/-0.000 $\chi^2$/NDF: 1370782.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:1308765.5/21

Out: 0.004+/-0.000 $\chi^2$/NDF:1506487.2/25

All: 0.004+/-0.000 $\chi^2$/NDF: 2816661.4/47

# yield_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 0.910+/-0.000 $\chi^2$/NDF: 3133349.6/15

Left Out: 0.786+/-0.000 $\chi^2$/NDF:2185486762.6/6

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 327979021.4/18

Left In: 0.815+/-0.000 $\chi^2$/NDF:934311040.6/5

Left: 0.800+/-0.000 $\chi^2$/NDF: 3133687449.2/12

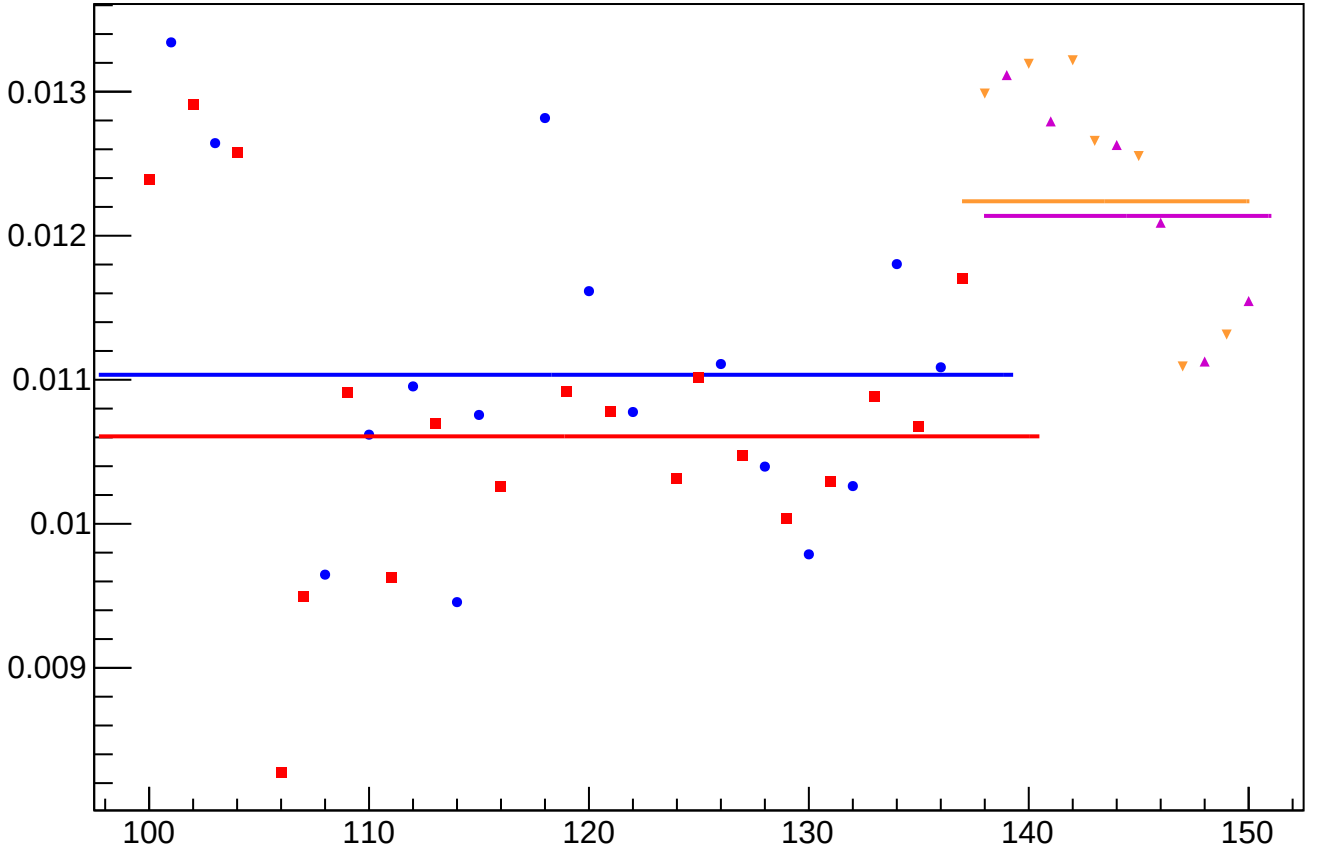
Right: 0.901+/-0.000 $\chi^2$/NDF: 339373965.5/34

In: 0.874+/-0.000 $\chi^2$/NDF:1126995982.7/21

Out: 0.856+/-0.000 $\chi^2$/NDF:2764730741.6/25

All: 0.865+/-0.000 $\chi^2$/NDF: 3906536195.2/47

# yield_bpm0l09X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 130353.1/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:47476.6/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 143947.4/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:33539.8/5

Left: 0.012+/-0.000 $\chi^2$/NDF: 81360.1/12

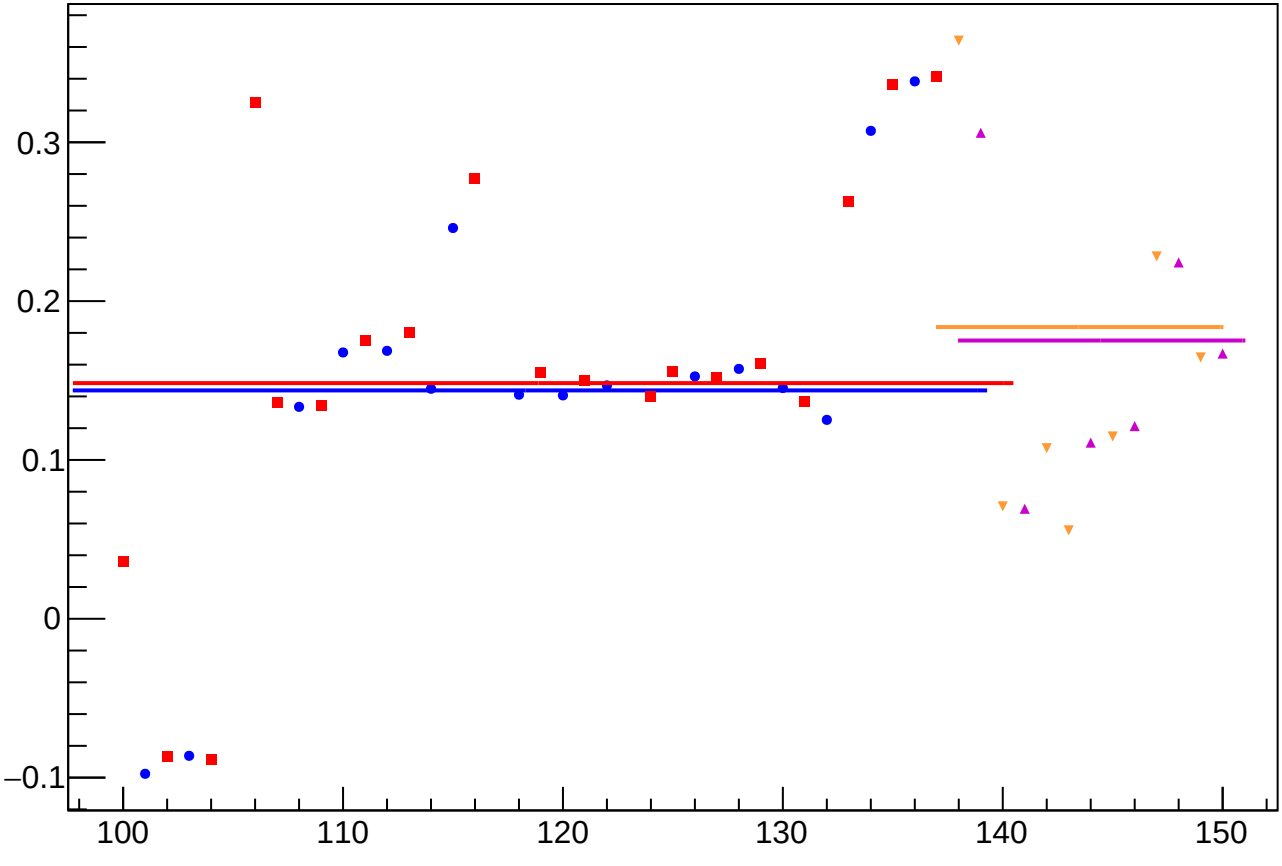
Right: 0.011+/-0.000 $\chi^2$/NDF: 285253.7/34

In: 0.011+/-0.000 $\chi^2$/NDF:215060.4/21

Out: 0.011+/-0.000 $\chi^2$/NDF:307887.4/25

All: 0.011+/-0.000 $\chi^2$/NDF: 530345.5/47

# yield_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: 0.144+/-0.000 $\chi^2$/NDF: 7867304536.4/15

Left Out: 0.184+/-0.000 $\chi^2$/NDF:4092339162.6/6

Right Out: 0.148+/-0.000 $\chi^2$/NDF: 7128567107.5/18

Left In: 0.175+/-0.000 $\chi^2$/NDF:2121297031.3/5

Left: 0.180+/-0.000 $\chi^2$/NDF: 6225516126.2/12

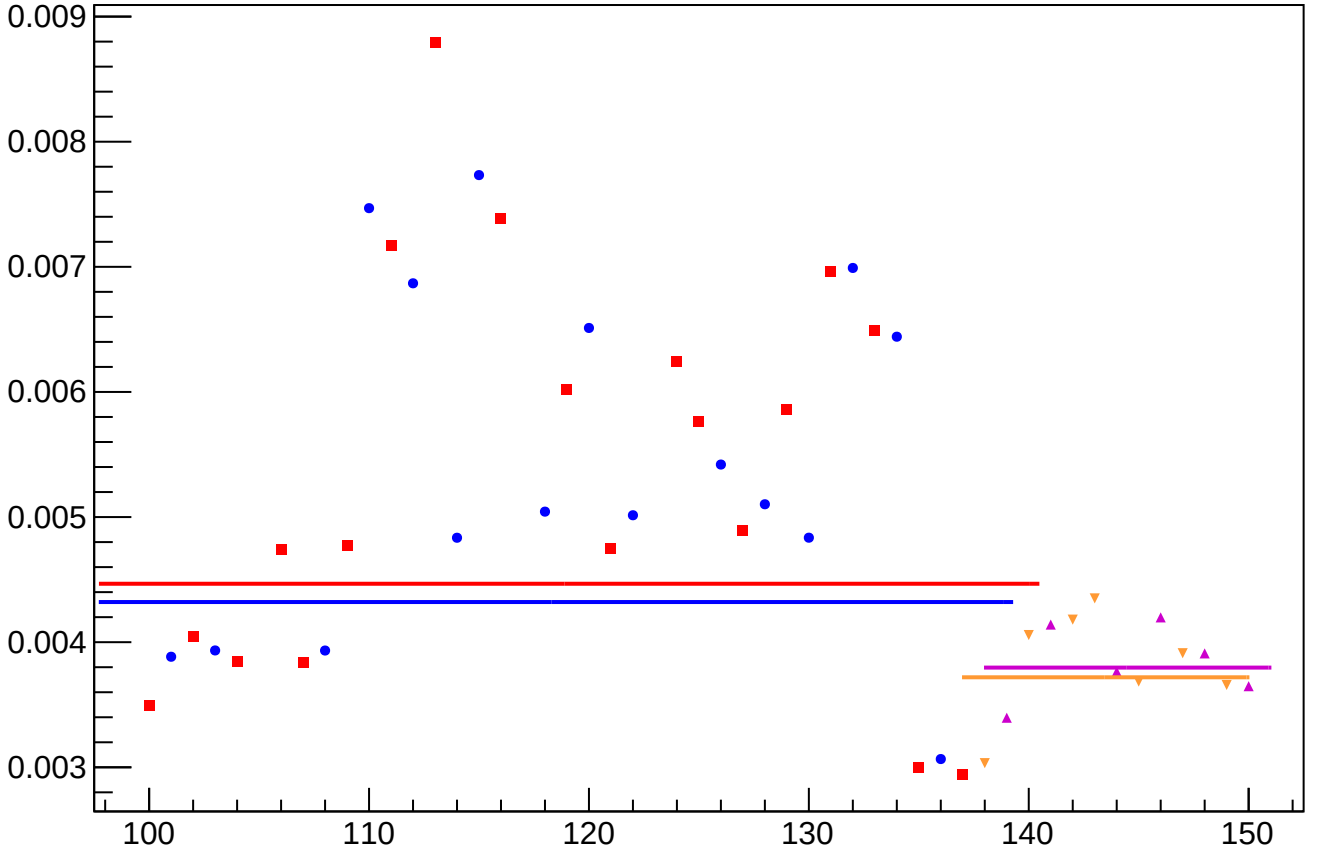
Right: 0.146+/-0.000 $\chi^2$/NDF: 14999065697.1/34

In: 0.160+/-0.000 $\chi^2$/NDF:10143748759.0/21

Out: 0.167+/-0.000 $\chi^2$/NDF:11417847039.9/25

All: 0.164+/-0.000 $\chi^2$/NDF: 21578204289.1/4

# yield_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 878343.4/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:123673.1/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1085759.3/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:49679.6/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 175334.9/12

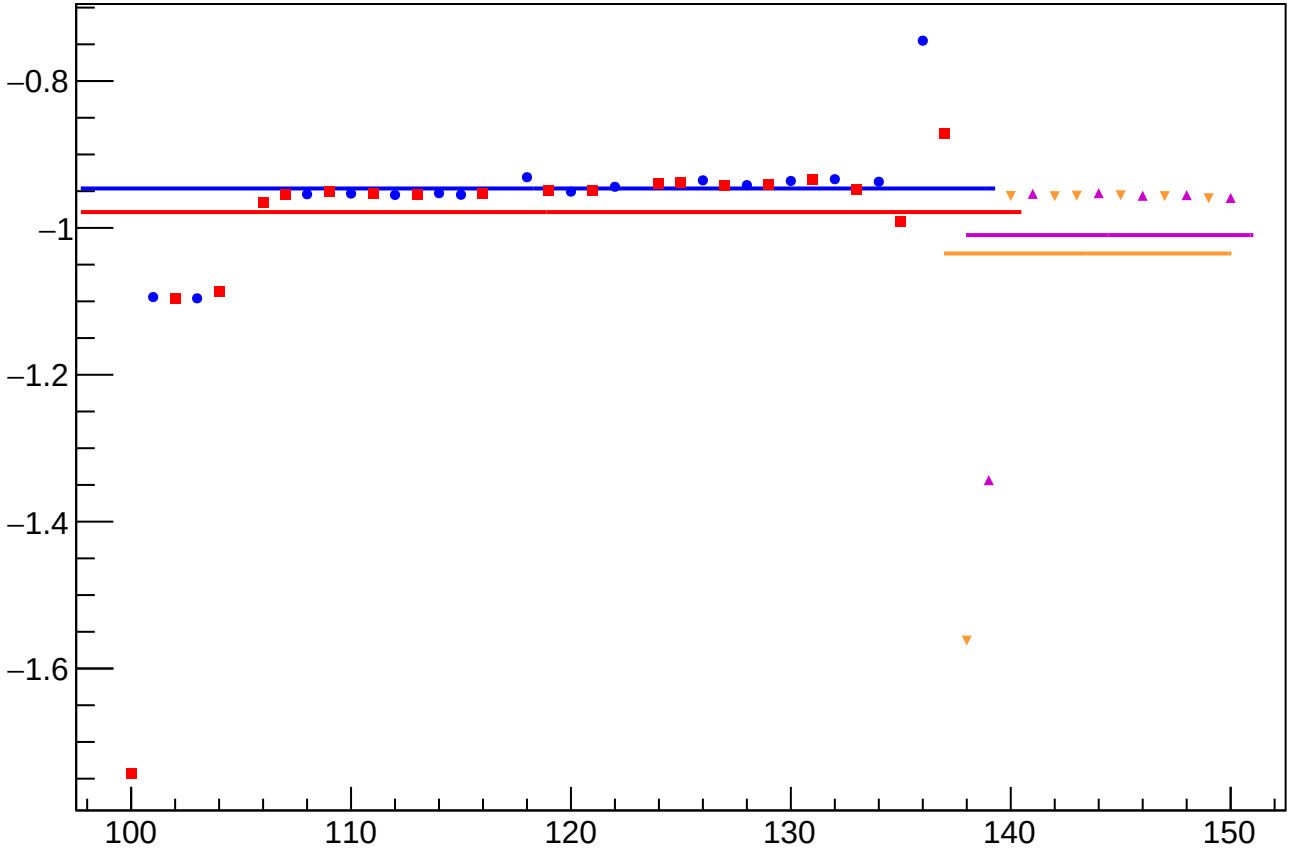
Right: 0.004+/-0.000 $\chi^2$/NDF: 1970552.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:1014371.5/21

Out: 0.004+/-0.000 $\chi^2$/NDF:1386128.0/25

All: 0.004+/-0.000 $\chi^2$/NDF: 2400694.1/47

# yield_bpm0l10X_mean vs Slug, Sign Corrected




Right In: -0.946+/-0.000 $\chi^2$/NDF: 404509465.5/15

Left Out: -1.035+/-0.000 $\chi^2$/NDF:1740039096.8/6

Right Out: -0.978+/-0.000 $\chi^2$/NDF: 461081476.3/18

Left In: -1.010+/-0.000 $\chi^2$/NDF:777284003.5/5

Left: -1.022+/-0.000 $\chi^2$/NDF: 2530778610.8/12

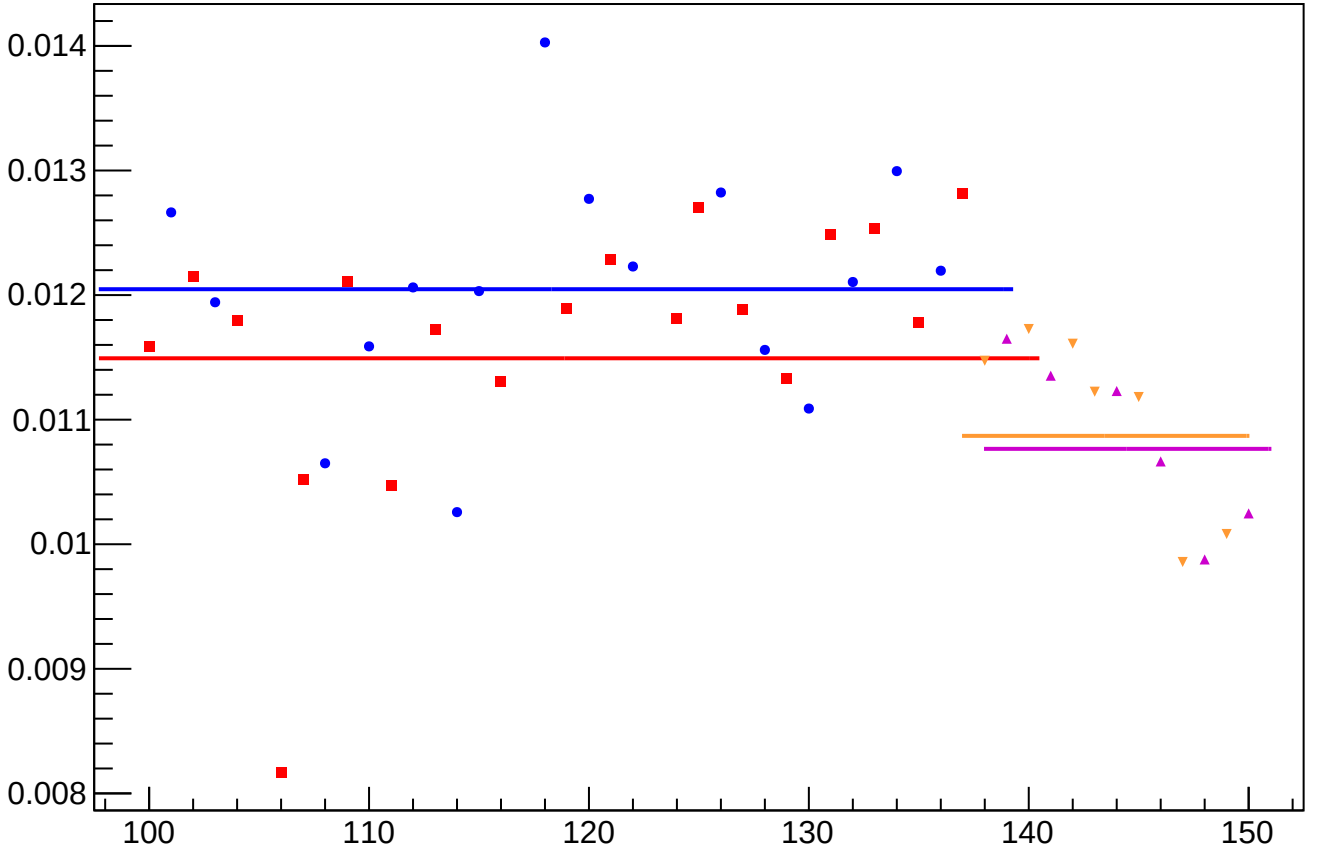
Right: -0.963+/-0.000 $\chi^2$/NDF: 891693396.9/34

In: -0.976+/-0.000 $\chi^2$/NDF:1272456817.0/21

Out: -1.003+/-0.000 $\chi^2$/NDF:2276859397.0/25

All: -0.990+/-0.000 $\chi^2$/NDF: 3582647789.1/4

# yield_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 62476.3/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:44882.2/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 151309.4/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:34281.2/5

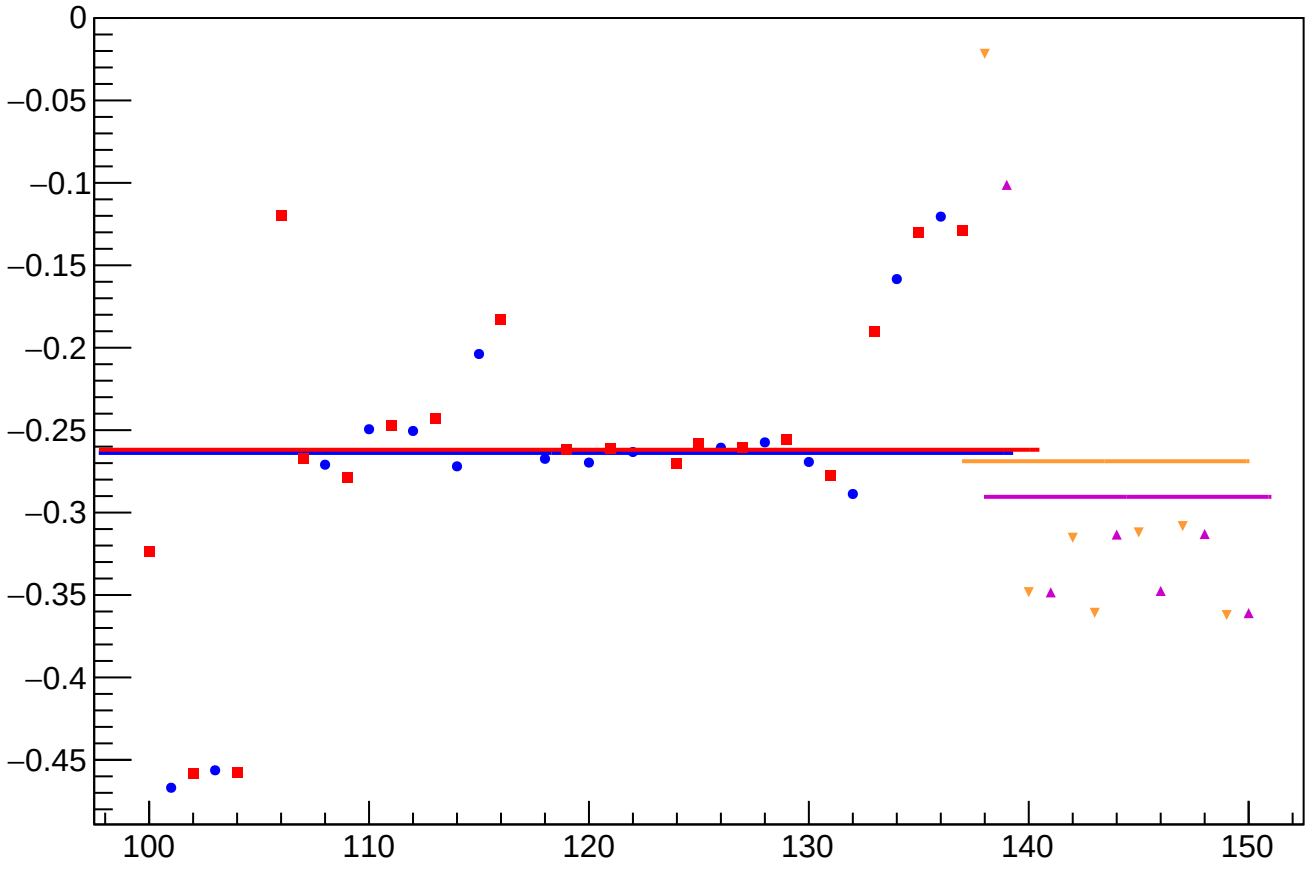
Left: 0.011+/-0.000 $\chi^2$/NDF: 79627.6/12

Right: 0.012+/-0.000 $\chi^2$/NDF: 229327.8/34

In: 0.011+/-0.000 $\chi^2$/NDF:170743.5/21

Out: 0.011+/-0.000 $\chi^2$/NDF:214653.4/25

All: 0.011+/-0.000 $\chi^2$/NDF: 389842.2/47




Right In: -0.264+/-0.000 $\chi^2$/NDF: 6106171444.3/15

Left Out: -0.269+/-0.000 $\chi^2$/NDF:4333525332.6/6

Right Out: -0.262+/-0.000 $\chi^2$/NDF: 5250043427.3/18

Left In: -0.290+/-0.000 $\chi^2$/NDF:2237453620.8/5

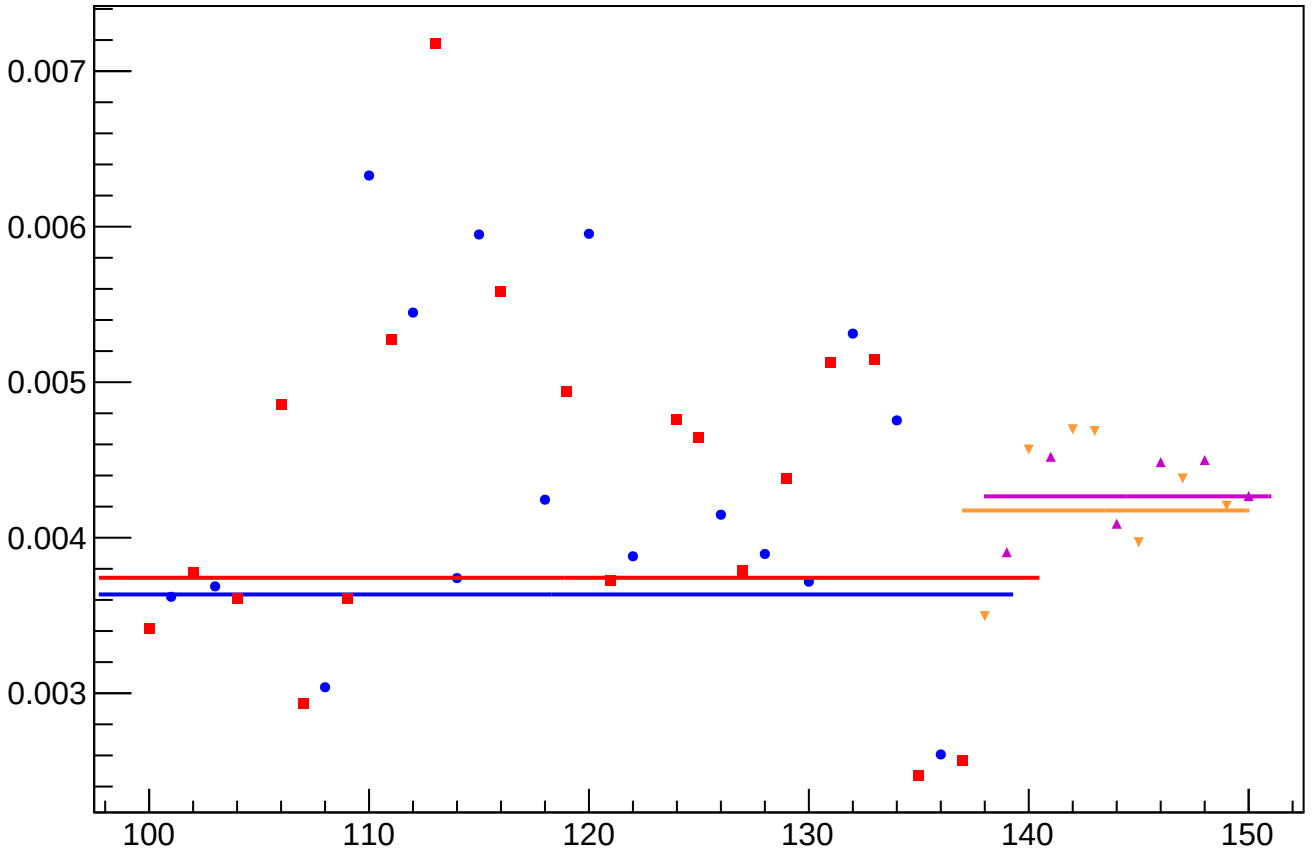
Left: -0.279+/-0.000 $\chi^2$/NDF: 6630448461.0/12

Right: -0.263+/-0.000 $\chi^2$/NDF: 11357011784.3/34

In: -0.273+/-0.000 $\chi^2$/NDF:8456170884.3/21

Out: -0.265+/-0.000 $\chi^2$/NDF:9591426814.9/25

All: -0.269+/-0.000 $\chi^2$/NDF: 18075269753.5/




Right In: 0.004+/-0.000 $\chi^2$/NDF: 728598.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:93069.5/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 894189.4/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:27626.3/5

Left: 0.004+/-0.000 $\chi^2$/NDF: 122806.4/12

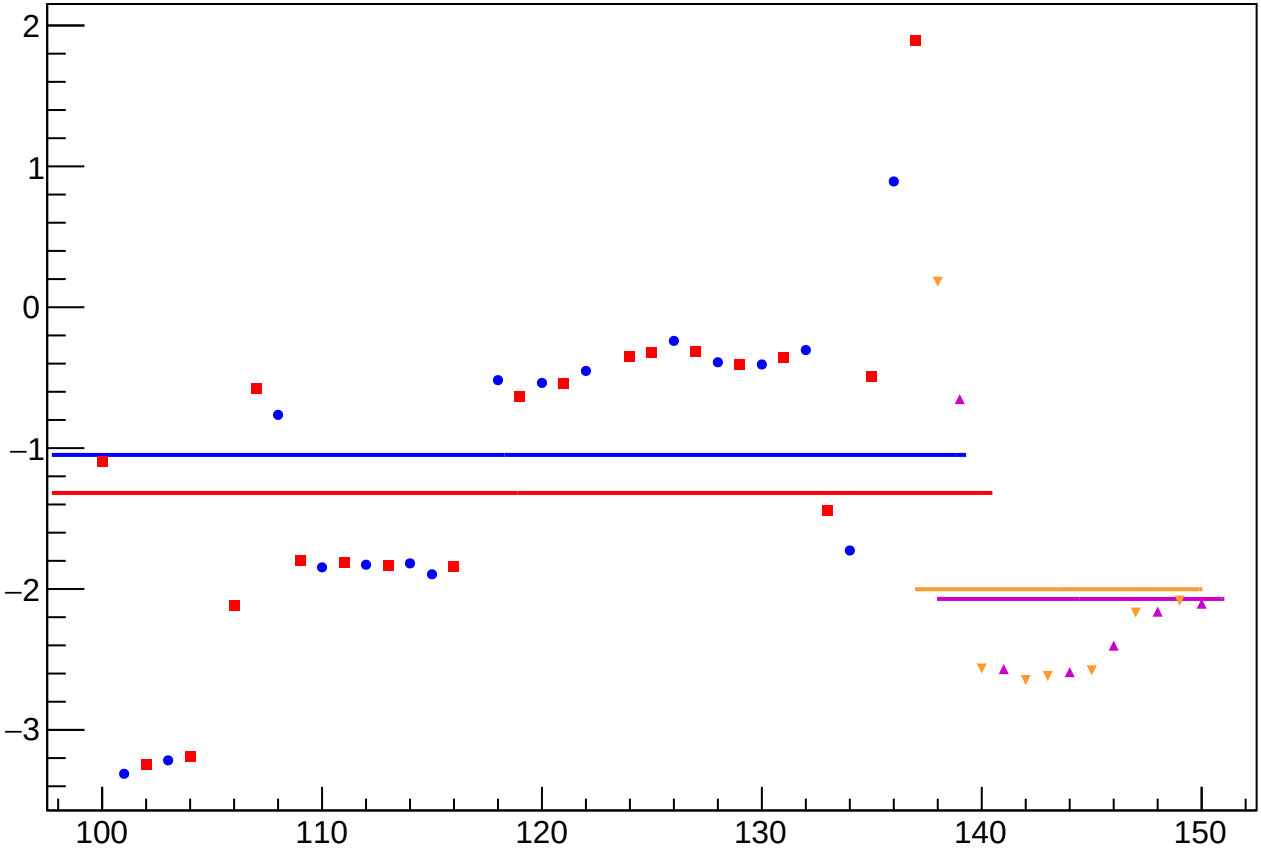
Right: 0.004+/-0.000 $\chi^2$/NDF: 1627770.5/34

In: 0.004+/-0.000 $\chi^2$/NDF:882405.6/21

Out: 0.004+/-0.000 $\chi^2$/NDF:1048009.7/25

All: 0.004+/-0.000 $\chi^2$/NDF: 1931601.3/47

# yield_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -1.048+/-0.000 $\chi^2$/NDF: 2347020985.5/15

Left Out: -2.001+/-0.000 $\chi^2$/NDF:895294197.7/6

Right Out: -1.318+/-0.000 $\chi^2$/NDF: 1847995615.1/18

Left In: -2.070+/-0.000 $\chi^2$/NDF:409582070.5/5

Left: -2.035+/-0.000 $\chi^2$/NDF: 1307099139.2/12

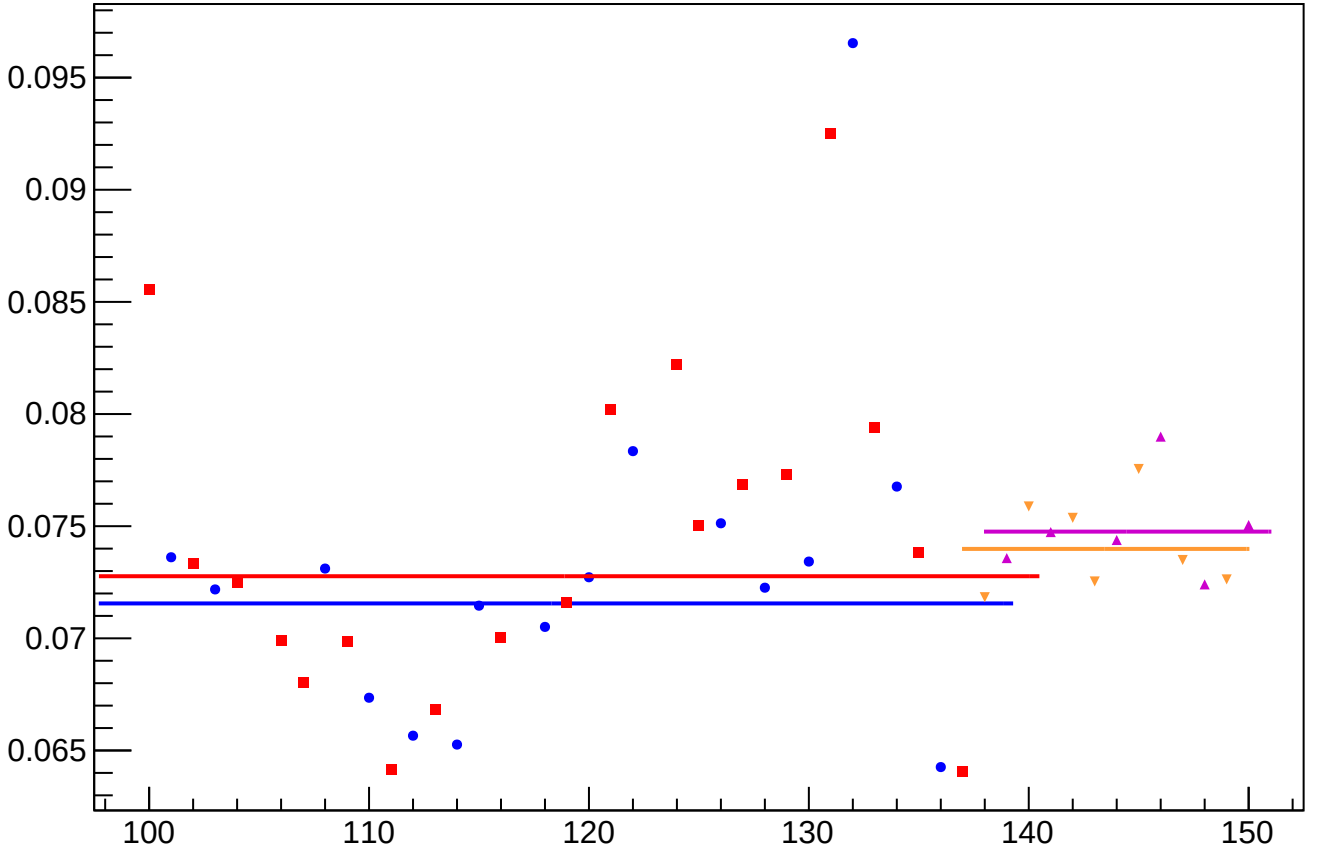
Right: -1.183+/-0.000 $\chi^2$/NDF: 4244956360.2/34

In: -1.456+/-0.000 $\chi^2$/NDF:3328157888.2/21

Out: -1.597+/-0.000 $\chi^2$/NDF:3004690923.7/25

All: -1.527+/-0.000 $\chi^2$/NDF: 6355576590.4/4

# yield_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 0.072+/-0.000 $\chi^2$/NDF: 101238.7/15

Left Out: 0.074+/-0.000 $\chi^2$/NDF:7234.3/6

Right Out: 0.073+/-0.000 $\chi^2$/NDF: 96874.2/18

Left In: 0.075+/-0.000 $\chi^2$/NDF:6994.2/5

Left: 0.074+/-0.000 $\chi^2$/NDF: 14779.8/12

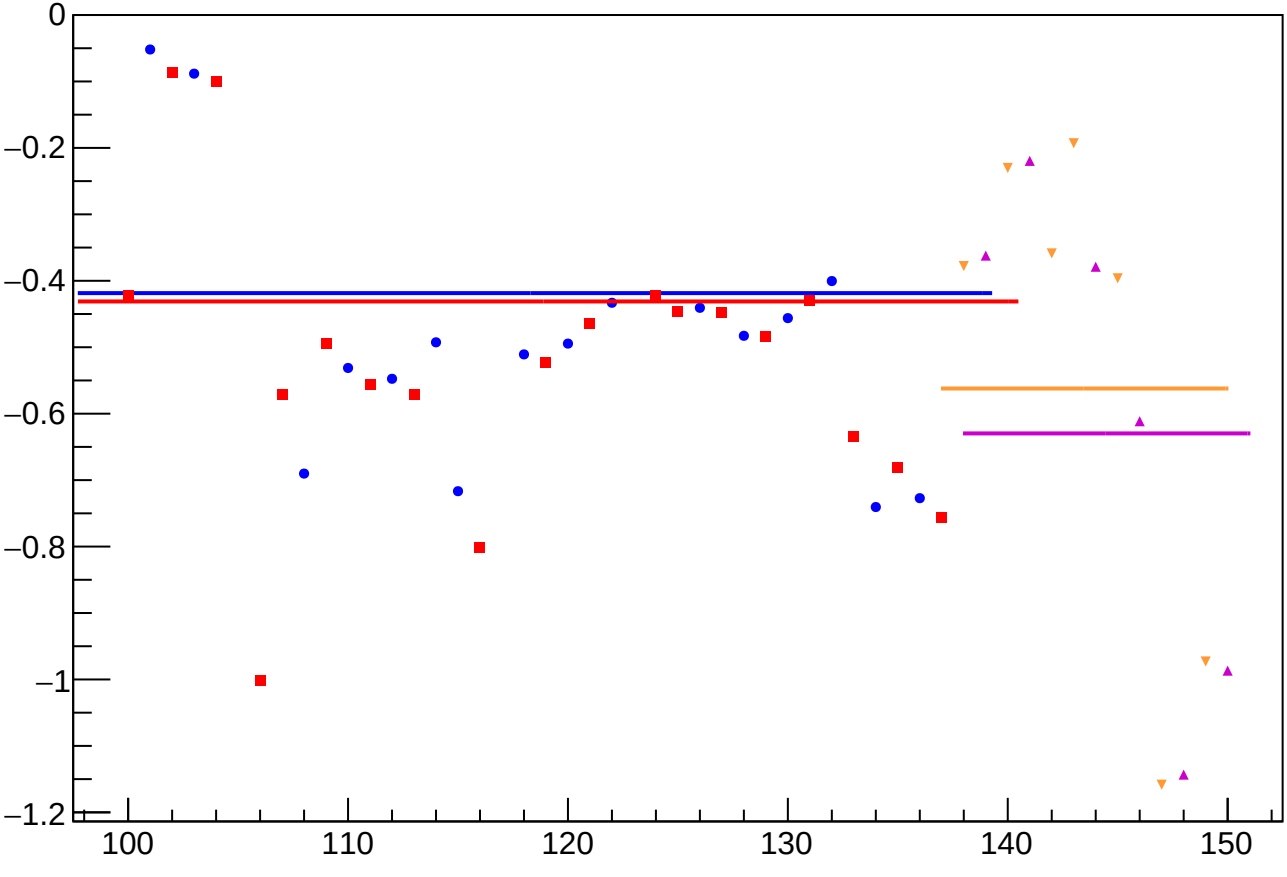
Right: 0.072+/-0.000 $\chi^2$/NDF: 200129.9/34

In: 0.073+/-0.000 $\chi^2$/NDF:119442.9/21

Out: 0.073+/-0.000 $\chi^2$/NDF:105769.3/25

All: 0.073+/-0.000 $\chi^2$/NDF: 225640.7/47

# yield_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: -0.419+/-0.000 $\chi^2$/NDF: 3072147227.9/15

Left Out: -0.562+/-0.000 $\chi^2$/NDF:8116068829.0/6

Right Out: -0.431+/-0.000 $\chi^2$/NDF: 3196655095.4/18

Left In: -0.630+/-0.000 $\chi^2$/NDF:7609077912.5/5

Left: -0.595+/-0.000 $\chi^2$/NDF: 15870798410.3/12

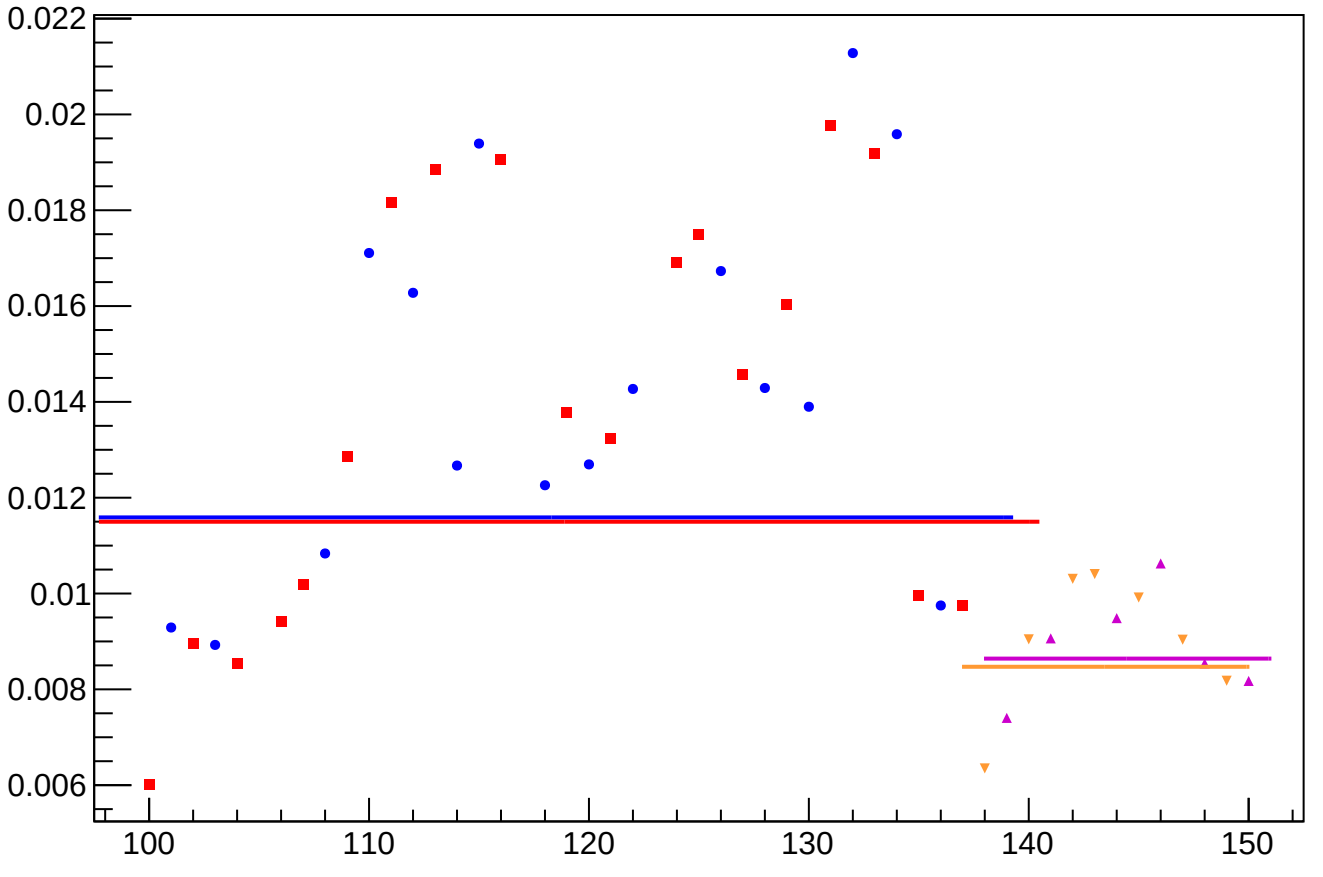
Right: -0.425+/-0.000 $\chi^2$/NDF: 6272338159.2/34

In: -0.542+/-0.000 $\chi^2$/NDF:11839663077.5/21

Out: -0.508+/-0.000 $\chi^2$/NDF:11771226405.4/25

All: -0.525+/-0.000 $\chi^2$/NDF: 23673754284.7/

# yield_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 786260.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:275319.2/6

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1164657.0/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:117030.8/5

Left: 0.009+/-0.000 $\chi^2$/NDF: 394201.4/12

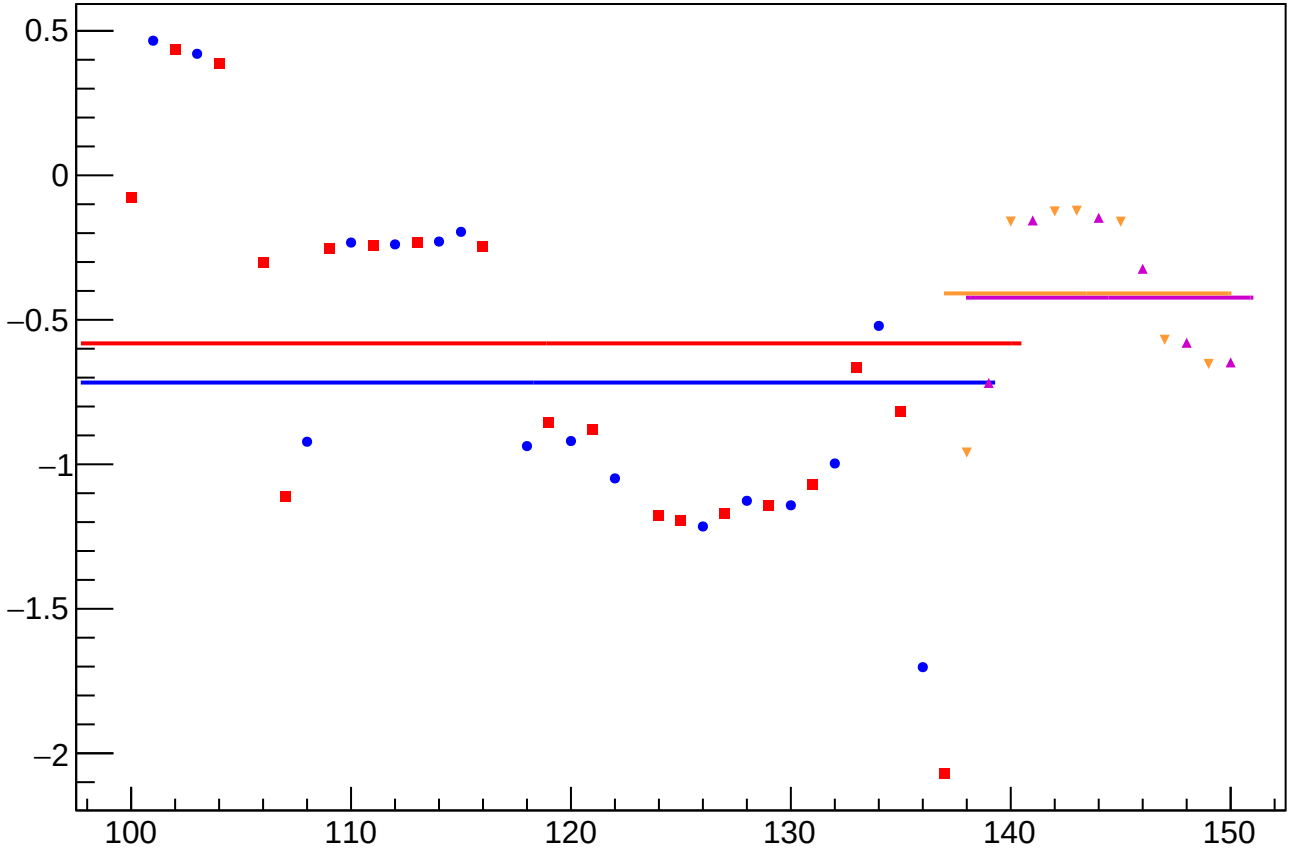
Right: 0.012+/-0.000 $\chi^2$/NDF: 1951282.6/34

In: 0.010+/-0.000 $\chi^2$/NDF:1354640.7/21

Out: 0.010+/-0.000 $\chi^2$/NDF:1929736.6/25

All: 0.010+/-0.000 $\chi^2$/NDF: 3286668.8/47

# yield_bpm0r05X_mean vs Slug, Sign Corrected




Right In: -0.717+/-0.000 $\chi^2$/NDF: 437423792.4/15

Left Out: -0.409+/-0.000 $\chi^2$/NDF:73711520.0/6

Right Out: -0.582+/-0.000 $\chi^2$/NDF: 342062039.8/18

Left In: -0.423+/-0.000 $\chi^2$/NDF:40016525.3/5

Left: -0.416+/-0.000 $\chi^2$/NDF: 113807193.5/12

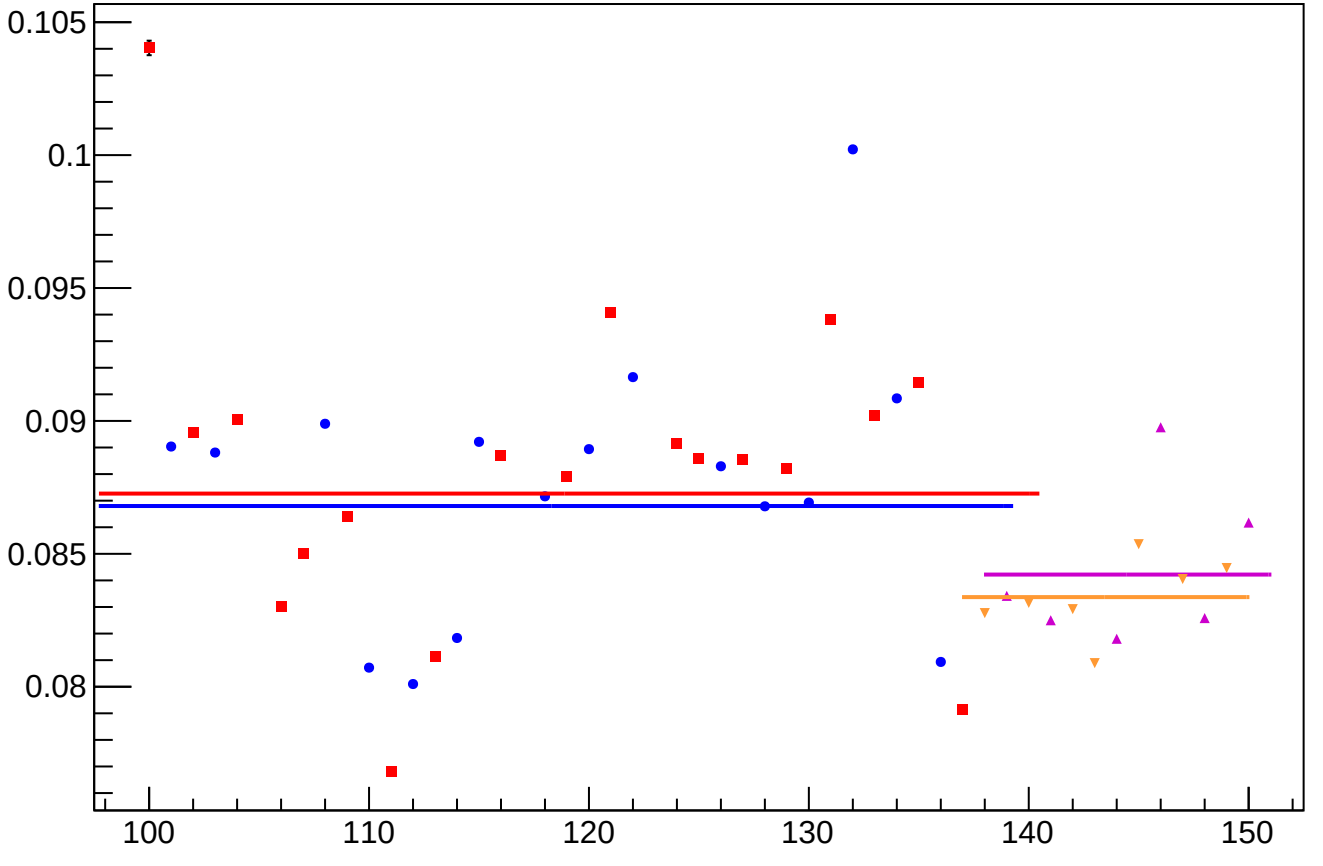
Right: -0.648+/-0.000 $\chi^2$/NDF: 788347373.4/34

In: -0.589+/-0.000 $\chi^2$/NDF:513248261.3/21

Out: -0.506+/-0.000 $\chi^2$/NDF:428586501.0/25

All: -0.547+/-0.000 $\chi^2$/NDF: 947789617.9/47

# yield_bpm0r05X_rms vs Slug, Sign Corrected




Right In: 0.087+/-0.000 $\chi^2$/NDF: 43575.8/15

Left Out: 0.083+/-0.000 $\chi^2$/NDF:2891.2/6

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 46163.9/18

Left In: 0.084+/-0.000 $\chi^2$/NDF:10728.7/5

Left: 0.084+/-0.000 $\chi^2$/NDF: 14157.6/12

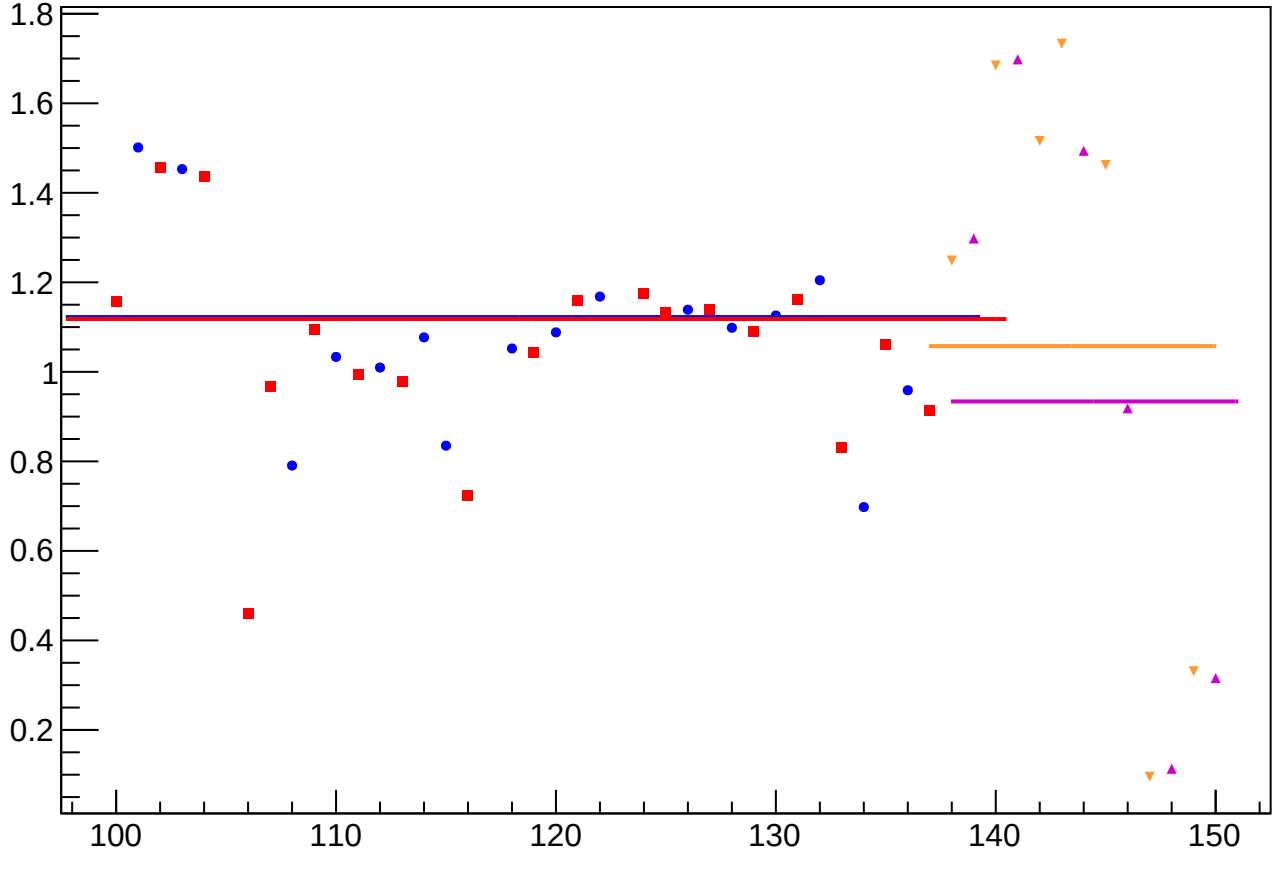
Right: 0.087+/-0.000 $\chi^2$/NDF: 89950.5/34

In: 0.086+/-0.000 $\chi^2$/NDF:59816.2/21

Out: 0.086+/-0.000 $\chi^2$/NDF:62047.9/25

All: 0.086+/-0.000 $\chi^2$/NDF: 121887.4/47

# yield_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 1.122+/-0.000 $\chi^2$/NDF: 1454303379.1/15

Left Out: 1.058+/-0.000 $\chi^2$/NDF:17035800579.0/6

Right Out: 1.118+/-0.000 $\chi^2$/NDF: 1570269350.9/18

Left In: 0.934+/-0.000 $\chi^2$/NDF:15707281639.5/5

Left: 0.997+/-0.000 $\chi^2$/NDF: 33092538924.0/12

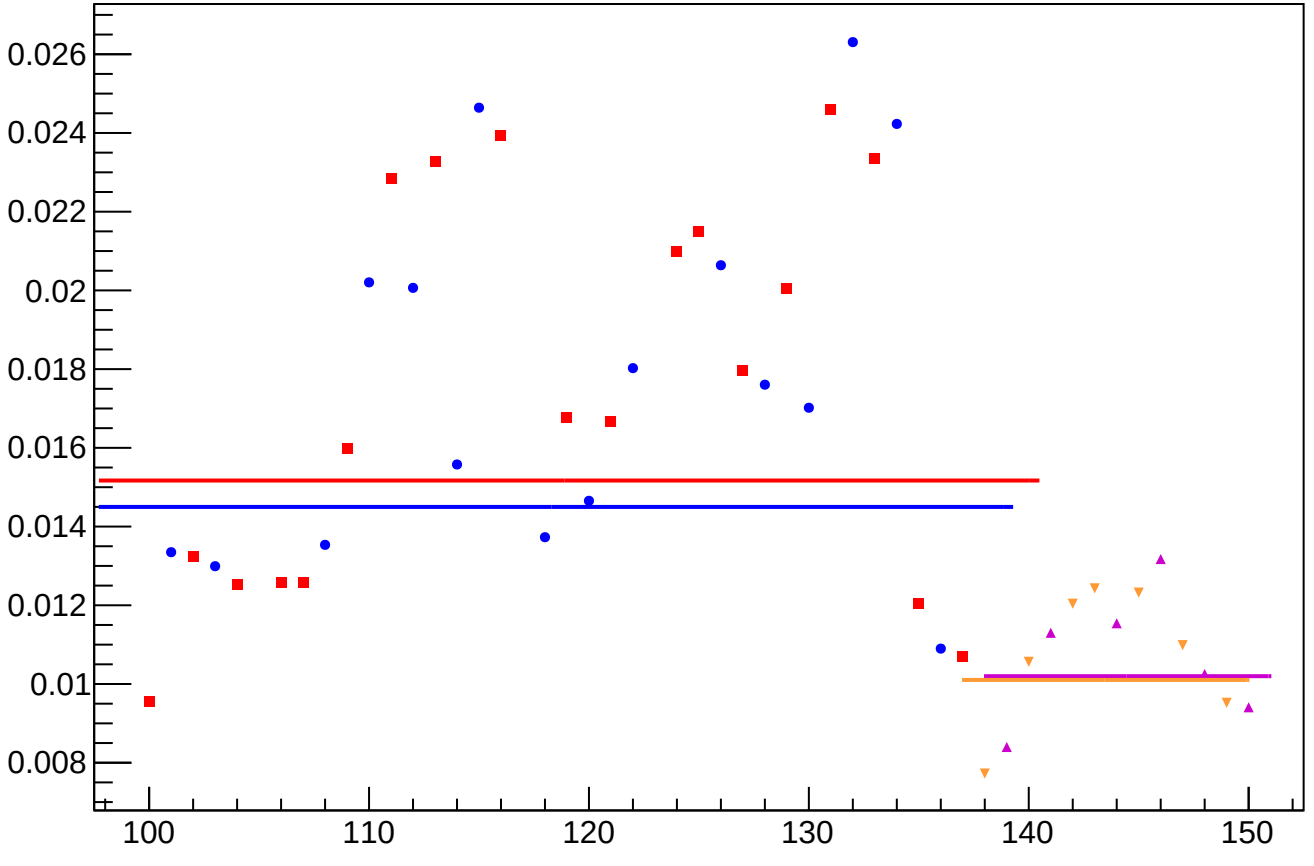
Right: 1.120+/-0.000 $\chi^2$/NDF: 3024831149.0/34

In: 1.007+/-0.000 $\chi^2$/NDF:17780464082.1/21

Out: 1.080+/-0.000 $\chi^2$/NDF:18667942101.3/25

All: 1.043+/-0.000 $\chi^2$/NDF: 36642864173.6/4

# yield_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 710345.3/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:278248.7/6

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 864637.6/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:198007.7/5

Left: 0.010+/-0.000 $\chi^2$/NDF: 476667.2/12

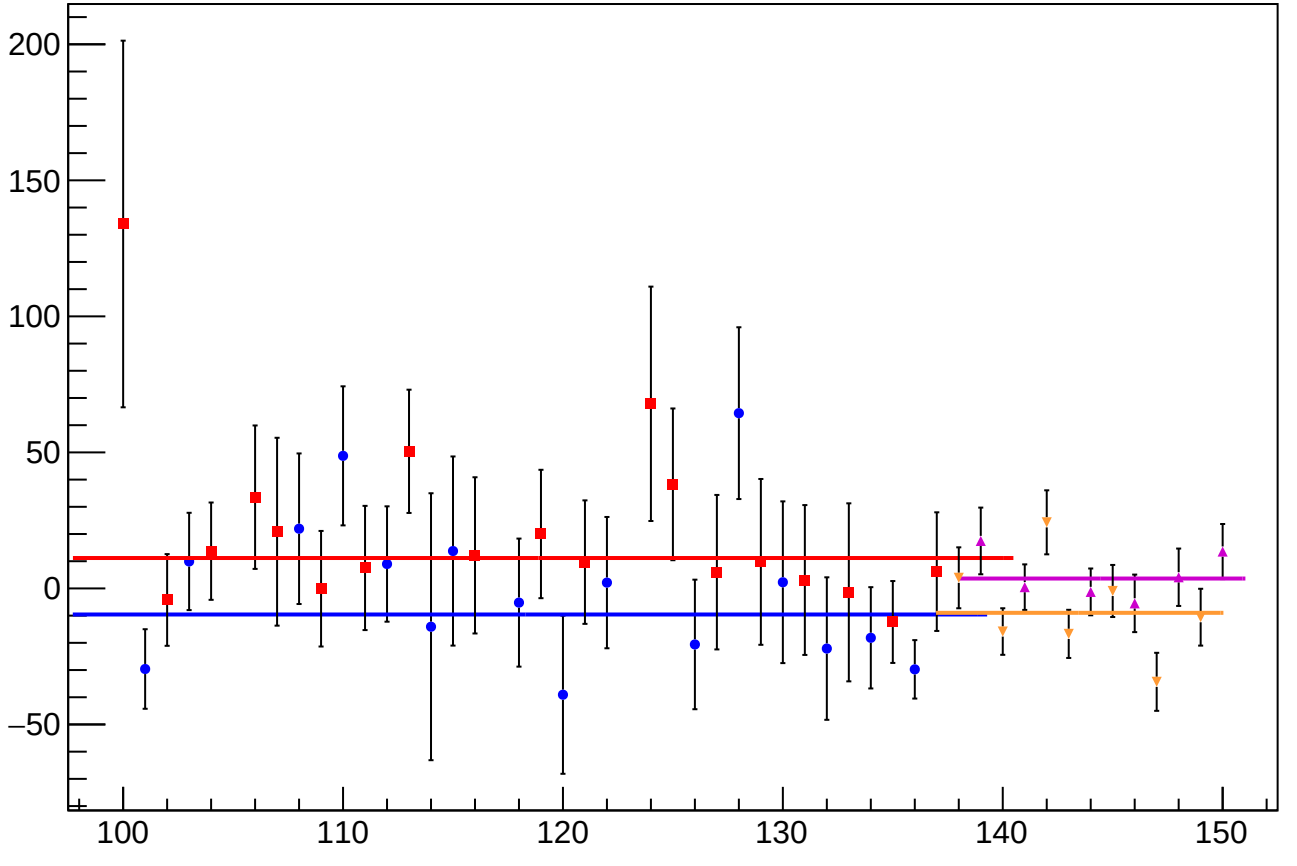
Right: 0.015+/-0.000 $\chi^2$/NDF: 1587355.3/34

In: 0.012+/-0.000 $\chi^2$/NDF:1552597.4/21

Out: 0.012+/-0.000 $\chi^2$/NDF:2011433.4/25

All: 0.012+/-0.000 $\chi^2$/NDF: 3564652.5/47

# diff_bpm4aX_mean vs Slug, Sign Corrected




Right In: -9.581+/-5.291 $\chi^2$/NDF: 21.9/15

Left Out: -8.969+/-3.766 $\chi^2$/NDF:17.1/6

Right Out: 11.177+/-5.497 $\chi^2$/NDF: 13.9/18

Left In: 3.634+/-4.012 $\chi^2$/NDF:3.4/5

Left: -3.064+/-2.746 $\chi^2$/NDF: 25.8/12

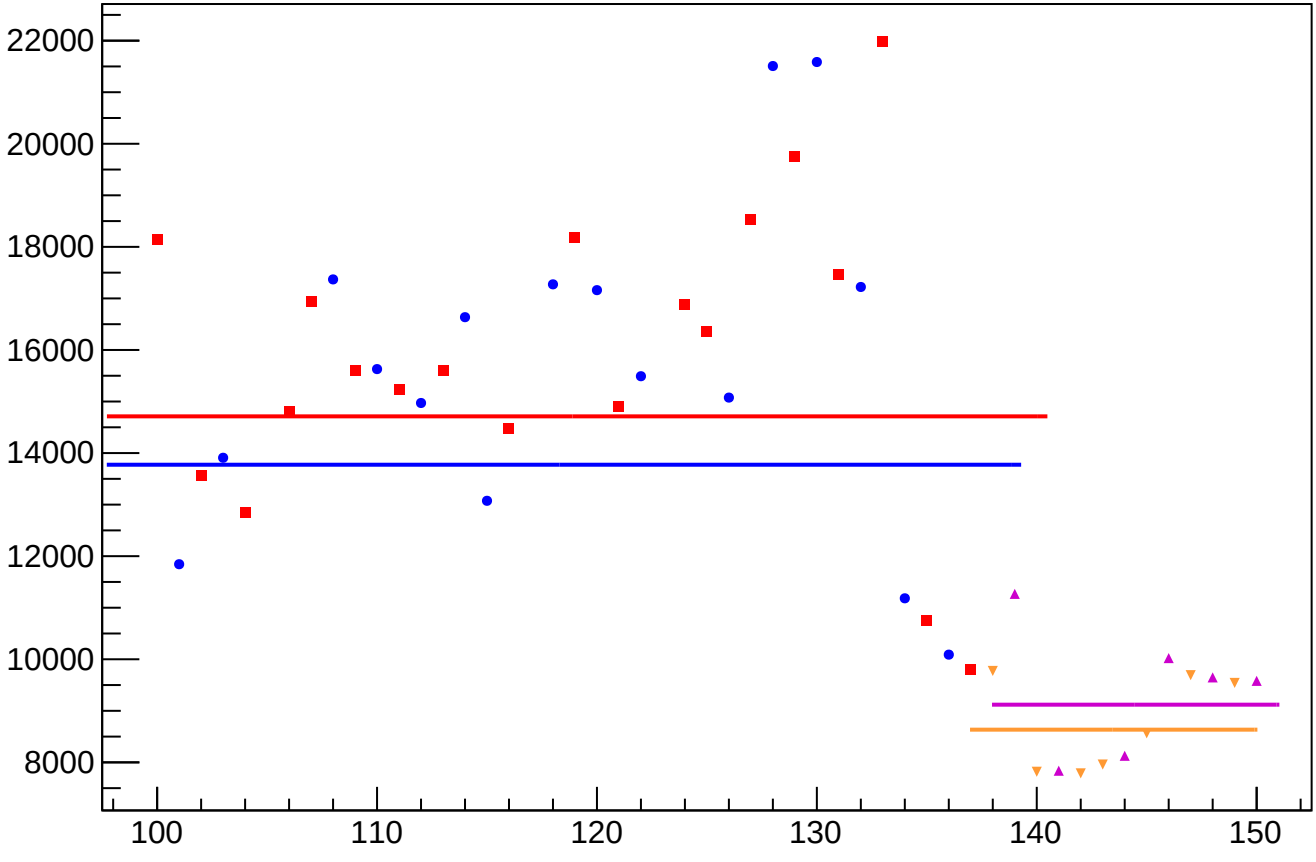
Right: 0.401+/-3.812 $\chi^2$/NDF: 43.2/34

In: -1.190+/-3.197 $\chi^2$/NDF:29.3/21

Out: -2.533+/-3.107 $\chi^2$/NDF:40.1/25

All: -1.881+/-2.228 $\chi^2$/NDF: 69.5/47

# diff_bpm4aX_rms vs Slug, Sign Corrected




Right In: 13773.886+/-3.741 $\chi^2$/NDF: 747586.2/15

Left Out: 8634.540+/-2.663 $\chi^2$/NDF:95794.9/6

Right Out: 14712.201+/-3.887 $\chi^2$/NDF: 557305.5/18

Left In: 9119.114+/-2.837 $\chi^2$/NDF:158768.6/5

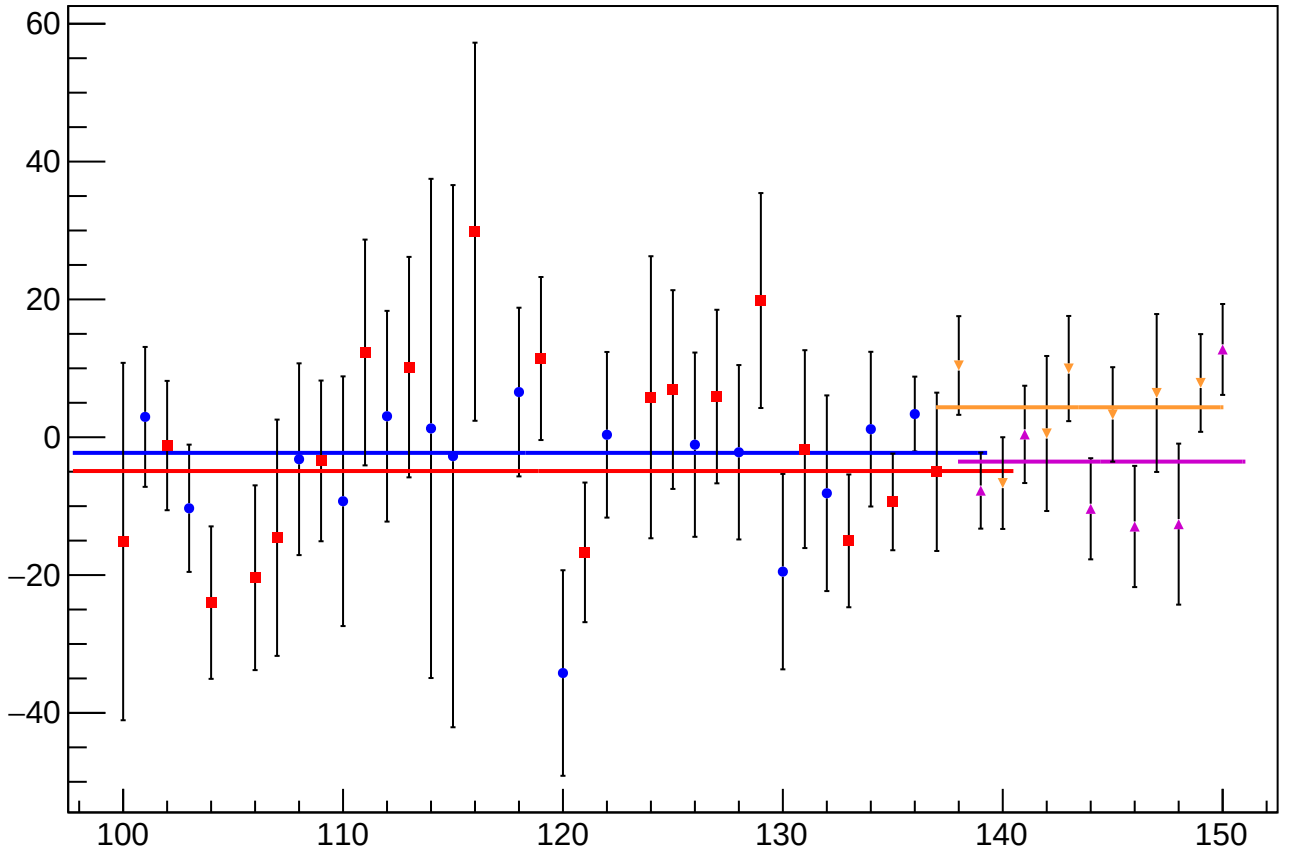
Left: 8861.556+/-1.942 $\chi^2$/NDF: 270073.4/12

Right: 14225.090+/-2.695 $\chi^2$/NDF: 1335141.9/34

In: 10818.391+/-2.260 $\chi^2$/NDF:1889312.4/21

Out: 10576.110+/-2.197 $\chi^2$/NDF:2316815.1/25

All: 10693.807+/-1.575 $\chi^2$/NDF: 4212035.3/4




Right In: -2.267+/-2.922 $\chi^2$/NDF: 9.3/15

Left Out: 4.349+/-2.937 $\chi^2$/NDF:4.4/6

Right Out: -4.904+/-2.836 $\chi^2$/NDF: 17.6/18

Left In: -3.536+/-2.953 $\chi^2$/NDF:9.6/5

Left: 0.427+/-2.082 $\chi^2$/NDF: 17.6/12

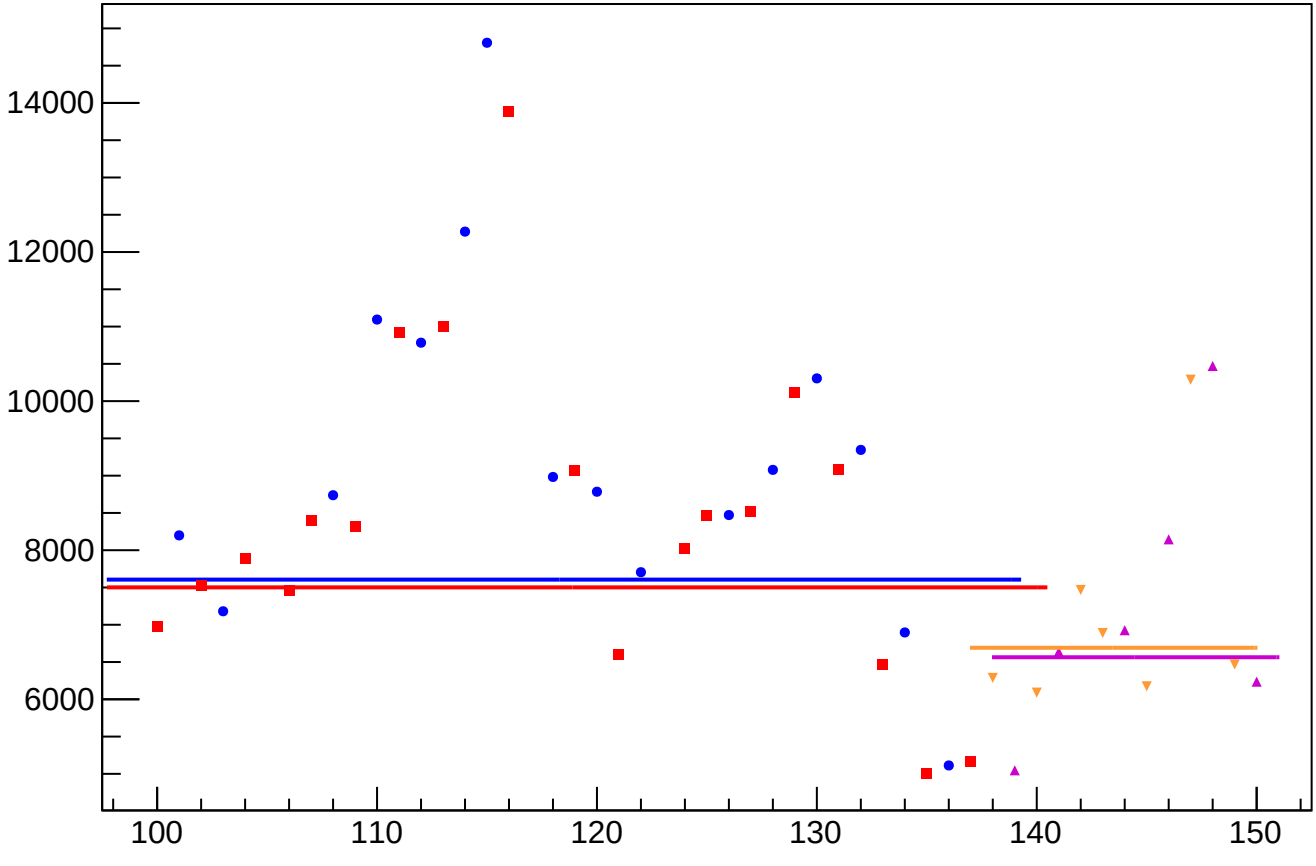
Right: -3.625+/-2.035 $\chi^2$/NDF: 27.3/34

In: -2.895+/-2.077 $\chi^2$/NDF:19.0/21

Out: -0.440+/-2.040 $\chi^2$/NDF:27.1/25

All: -1.645+/-1.455 $\chi^2$/NDF: 46.8/47

# diff_bpm4aY_rms vs Slug, Sign Corrected




Right In: 7605.700+/-2.066 $\chi^2$/NDF: 891494.3/15

Left Out: 6691.275+/-2.077 $\chi^2$/NDF:244026.3/6

Right Out: 7501.522+/-2.005 $\chi^2$/NDF: 823557.5/18

Left In: 6564.110+/-2.088 $\chi^2$/NDF:449390.8/5

Left: 6628.034+/-1.472 $\chi^2$/NDF: 695281.7/12

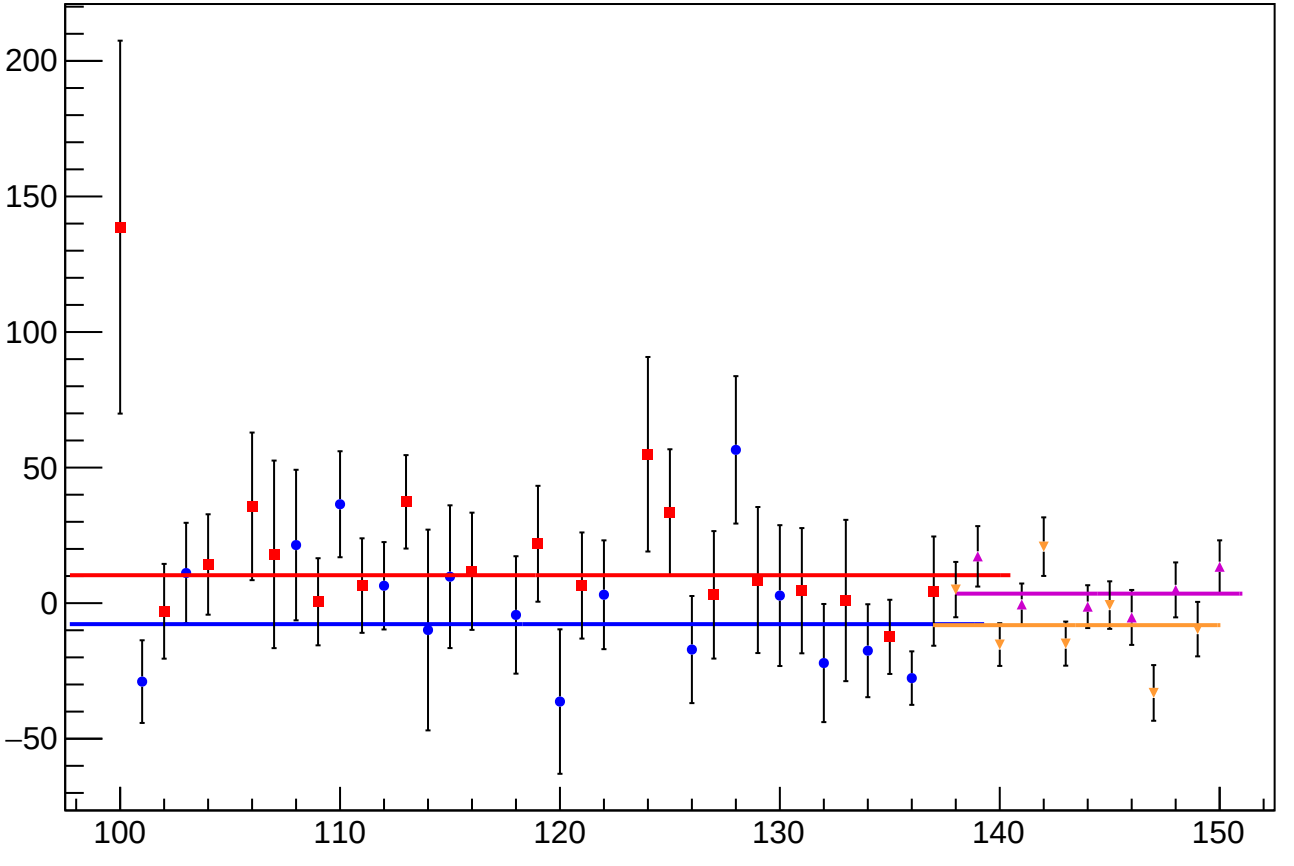
Right: 7552.053+/-1.439 $\chi^2$/NDF: 1716360.9/34

In: 7090.368+/-1.469 $\chi^2$/NDF:1466615.8/21

Out: 7110.587+/-1.443 $\chi^2$/NDF:1146353.7/25

All: 7100.659+/-1.029 $\chi^2$/NDF: 2613065.9/47

# diff_bpm4eX_mean vs Slug, Sign Corrected




Right In: -7.741+/-4.748 $\chi^2$/NDF: 22.7/15

Left Out: -8.113+/-3.497 $\chi^2$/NDF:17.0/6

Right Out: 10.307+/-4.840 $\chi^2$/NDF: 13.9/18

Left In: 3.506+/-3.755 $\chi^2$/NDF:4.0/5

Left: -2.717+/-2.559 $\chi^2$/NDF: 26.1/12

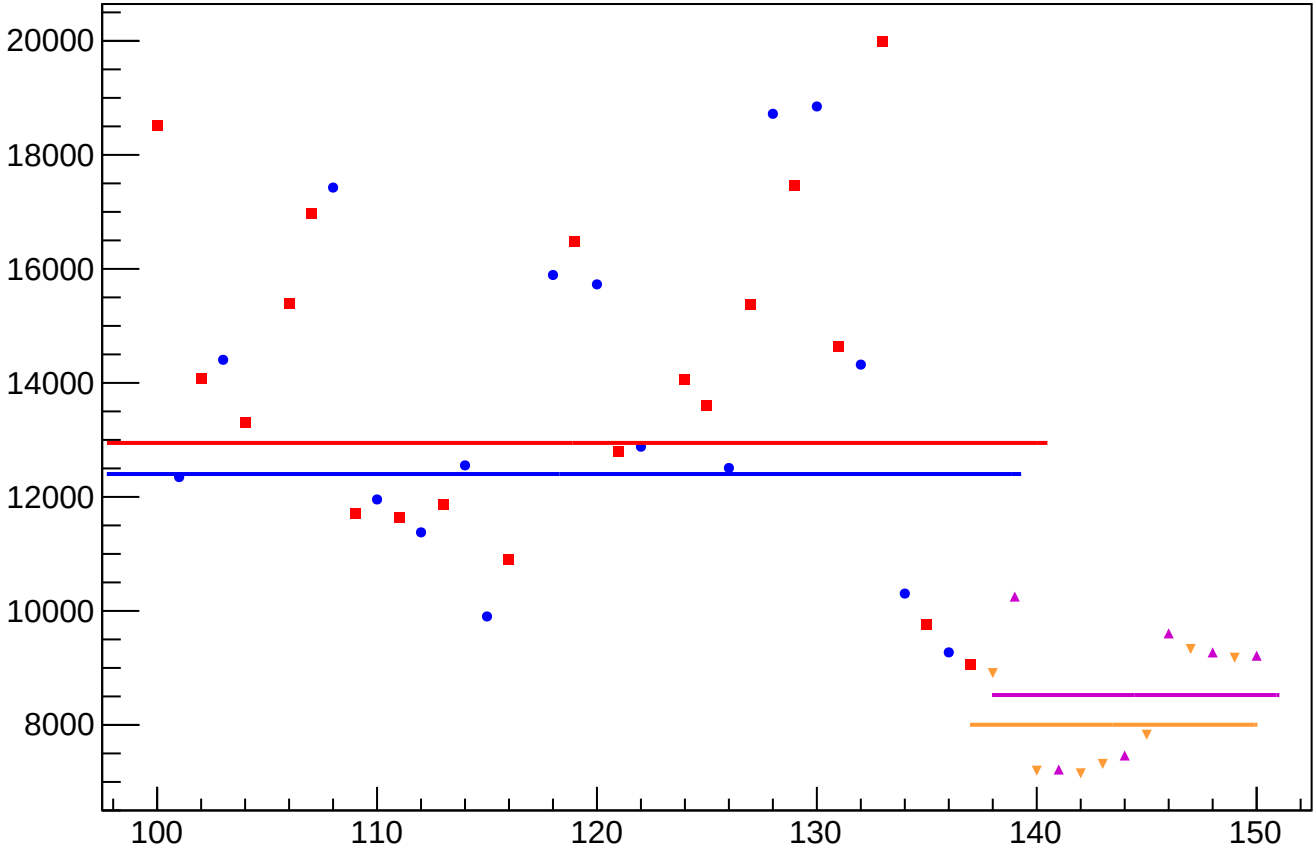
Right: 1.111+/-3.389 $\chi^2$/NDF: 43.7/34

In: -0.821+/-2.945 $\chi^2$/NDF:30.1/21

Out: -1.795+/-2.834 $\chi^2$/NDF:40.5/25

All: -1.327+/-2.042 $\chi^2$/NDF: 70.6/47

# diff_bpm4eX_rms vs Slug, Sign Corrected




Right In: 12401.769+/-3.357 $\chi^2$/NDF: 678310.8/15

Left Out: 8002.913+/-2.473 $\chi^2$/NDF:125081.4/6

Right Out: 12947.255+/-3.422 $\chi^2$/NDF: 555198.3/18

Left In: 8524.731+/-2.655 $\chi^2$/NDF:185262.3/5

Left: 8245.269+/-1.809 $\chi^2$/NDF: 331030.8/12

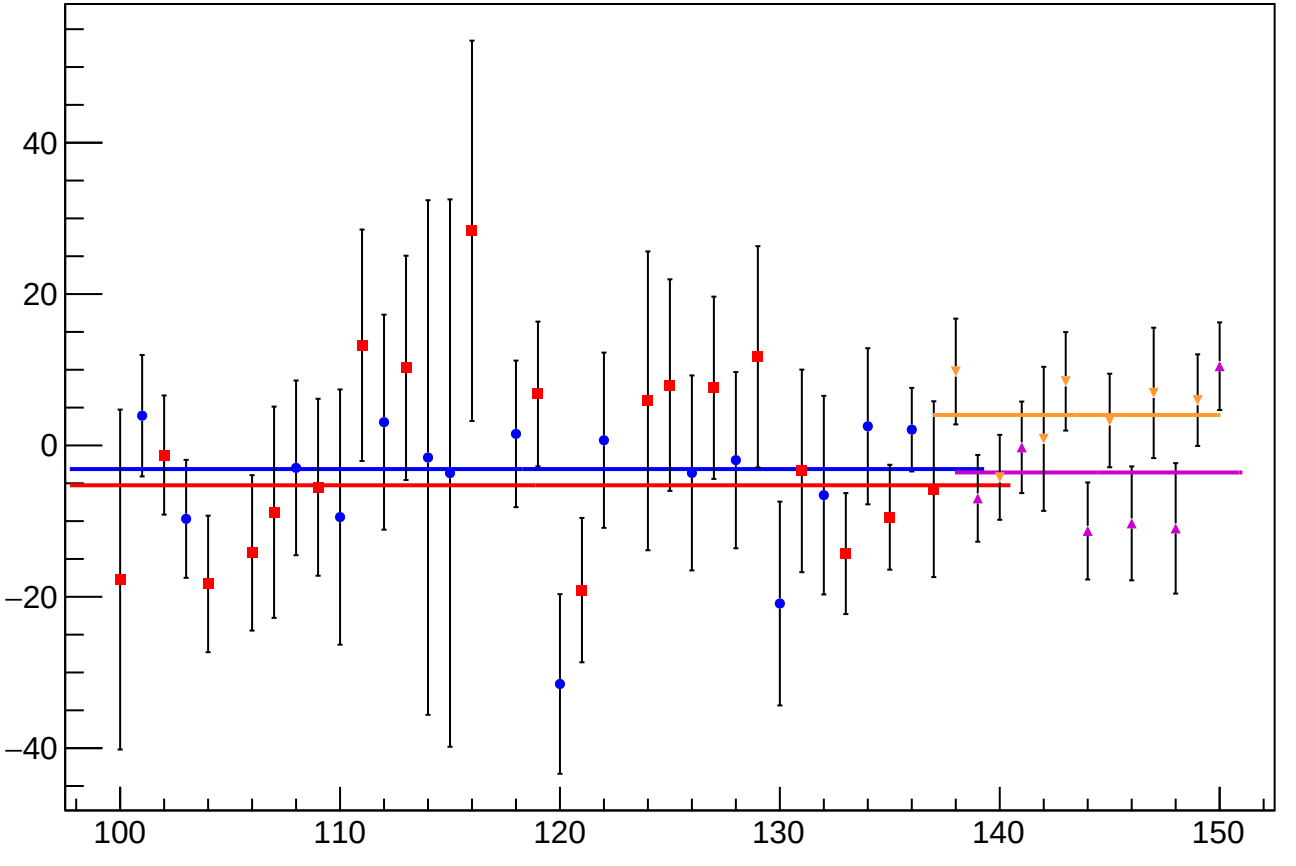
Right: 12669.304+/-2.397 $\chi^2$/NDF: 1246455.4/34

In: 10016.412+/-2.083 $\chi^2$/NDF:1683985.5/21

Out: 9698.656+/-2.004 $\chi^2$/NDF:2051778.3/25

All: 9851.439+/-1.444 $\chi^2$/NDF: 3747850.6/47

# diff_bpm4eY_mean vs Slug, Sign Corrected




Right In: -3.123+/-2.656 $\chi^2$/NDF: 10.9/15

Left Out: 4.024+/-2.550 $\chi^2$/NDF:3.6/6

Right Out: -5.265+/-2.553 $\chi^2$/NDF: 16.9/18

Left In: -3.572+/-2.644 $\chi^2$/NDF:9.5/5

Left: 0.364+/-1.835 $\chi^2$/NDF: 17.4/12

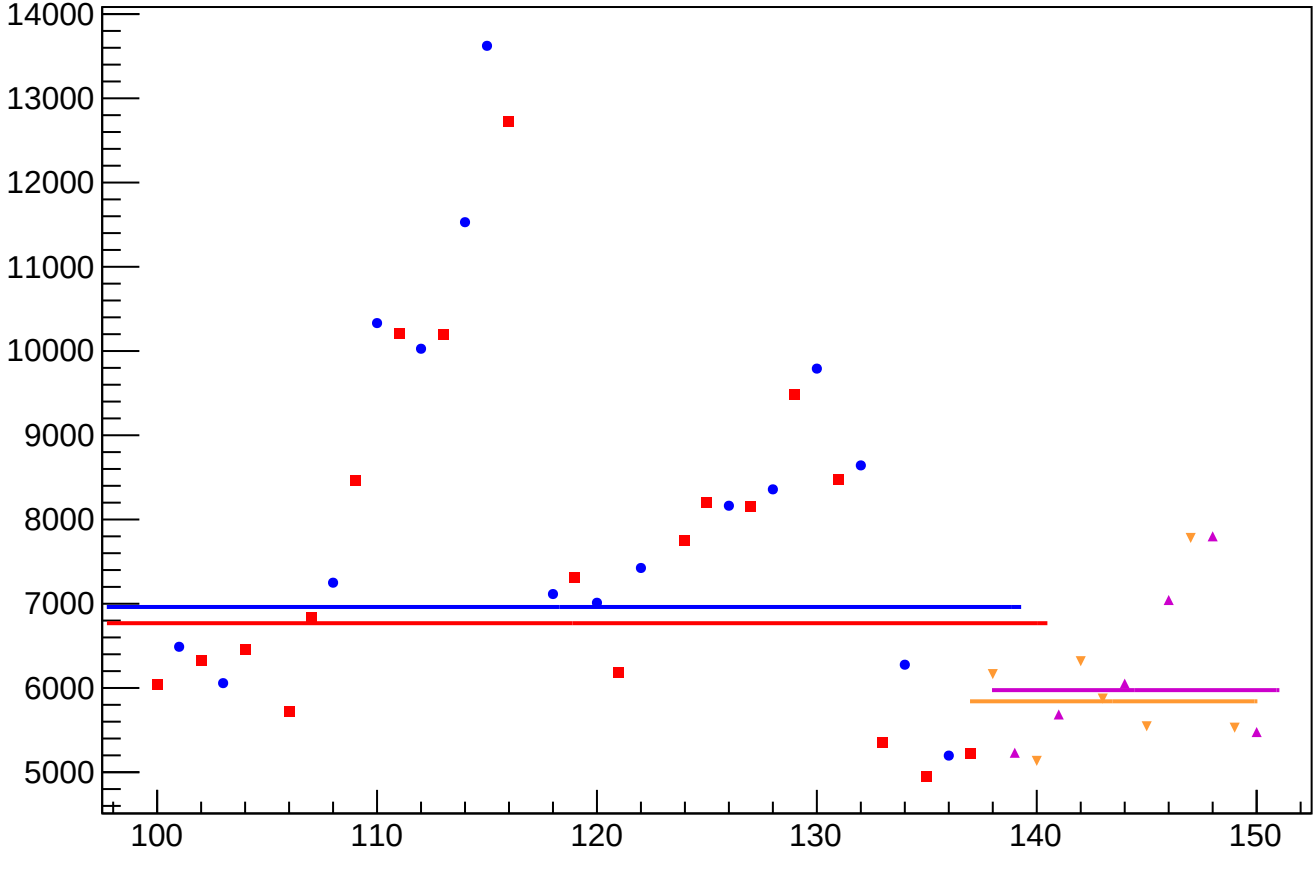
Right: -4.236+/-1.840 $\chi^2$/NDF: 28.1/34

In: -3.349+/-1.874 $\chi^2$/NDF:20.4/21

Out: -0.614+/-1.804 $\chi^2$/NDF:27.2/25

All: -1.930+/-1.300 $\chi^2$/NDF: 48.7/47

# diff_bpm4eY_rms vs Slug, Sign Corrected




Right In: 6961.606+/-1.878 $\chi^2$/NDF: 696410.4/15

Left Out: 5841.649+/-1.803 $\chi^2$/NDF:152418.9/6

Right Out: 6768.993+/-1.805 $\chi^2$/NDF: 798105.0/18

Left In: 5974.407+/-1.870 $\chi^2$/NDF:183407.9/5

Left: 5905.612+/-1.298 $\chi^2$/NDF: 338439.5/12

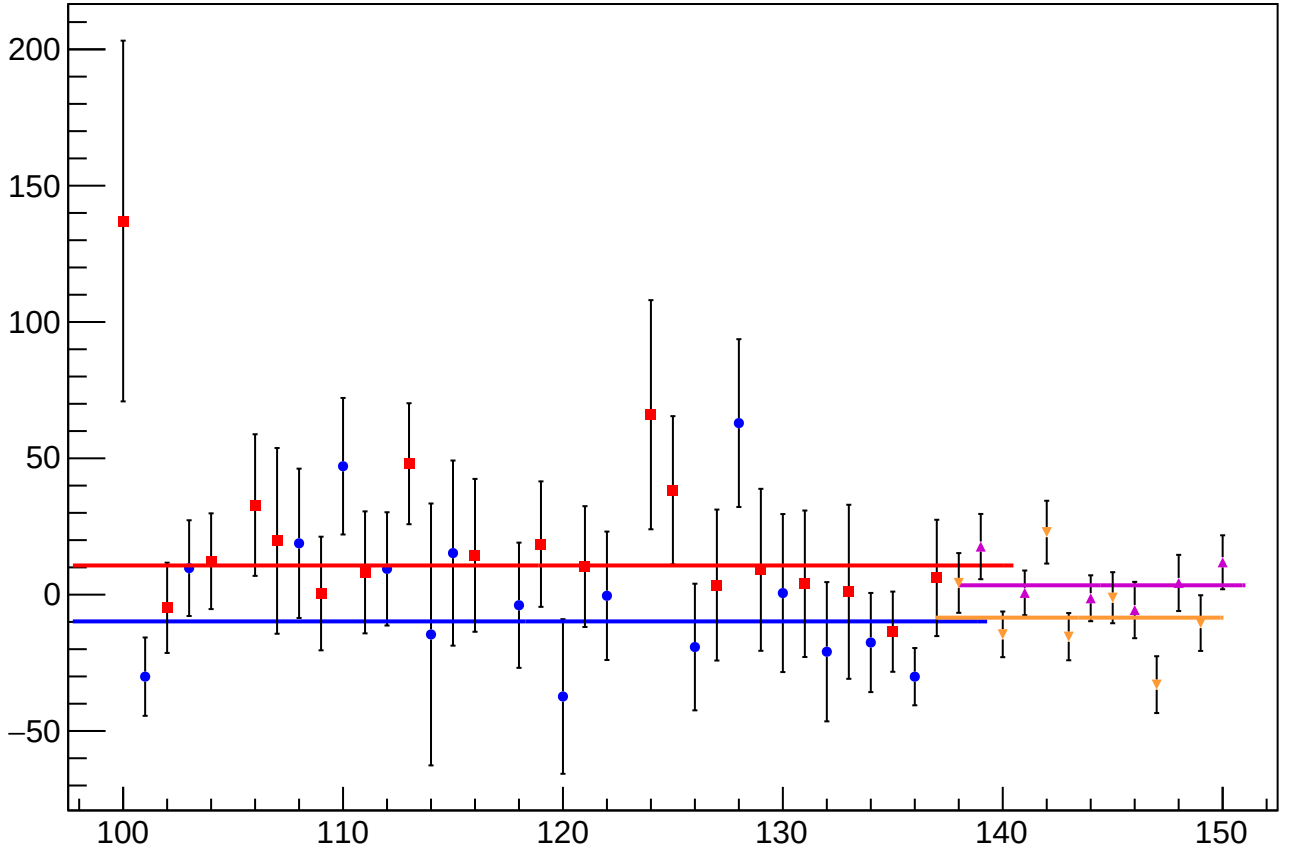
Right: 6861.506+/-1.301 $\chi^2$/NDF: 1499983.0/34

In: 6465.854+/-1.325 $\chi^2$/NDF:1018606.2/21

Out: 6304.686+/-1.276 $\chi^2$/NDF:1082640.2/25

All: 6382.217+/-0.919 $\chi^2$/NDF: 2108925.1/47

# diff_bpm4acX_mean vs Slug, Sign Corrected




Right In: -9.810+/-5.178 $\chi^2$/NDF: 22.0/15

Left Out: -8.433+/-3.685 $\chi^2$/NDF:16.1/6

Right Out: 10.703+/-5.381 $\chi^2$/NDF: 14.3/18

Left In: 3.432+/-3.923 $\chi^2$/NDF:3.3/5

Left: -2.871+/-2.686 $\chi^2$/NDF: 24.4/12

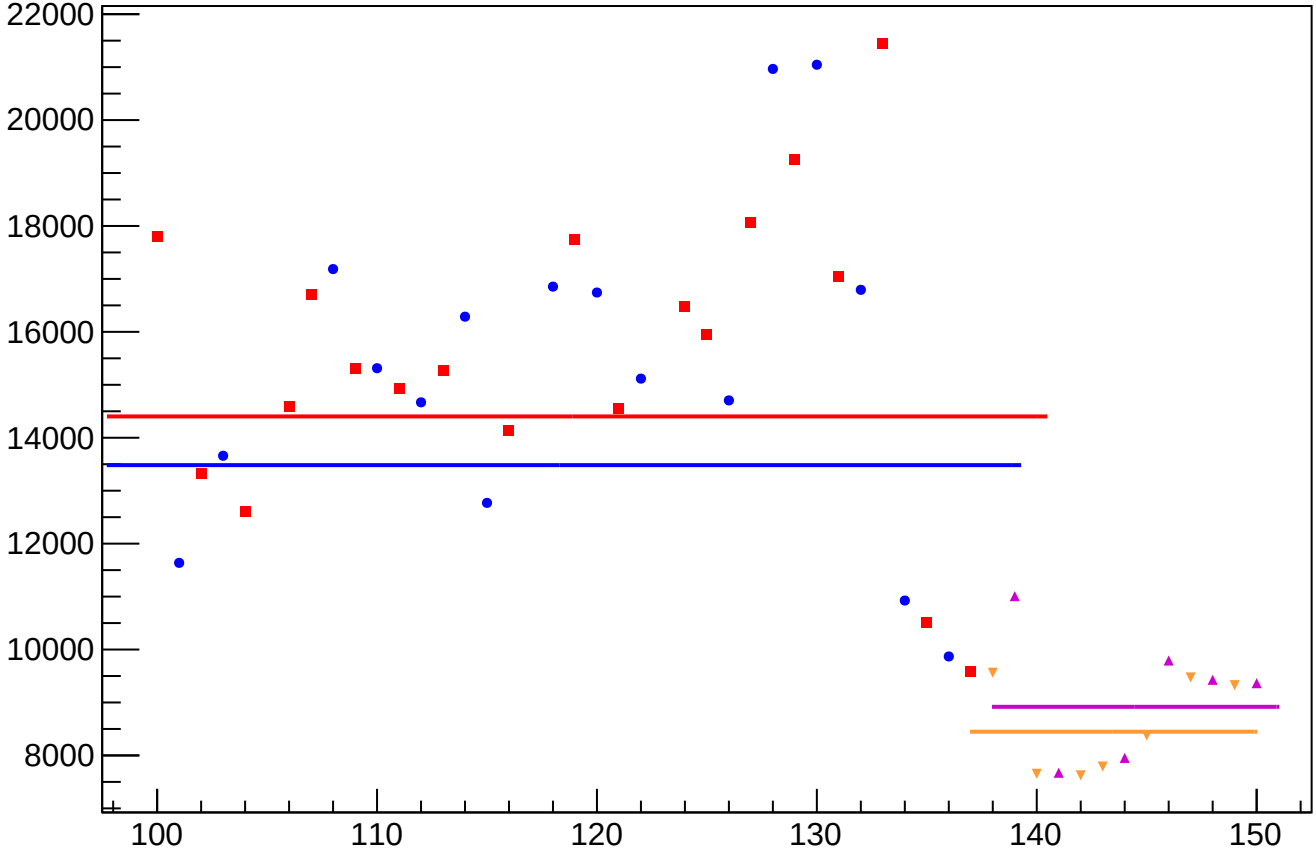
Right: 0.053+/-3.731 $\chi^2$/NDF: 43.9/34

In: -1.396+/-3.127 $\chi^2$/NDF:29.5/21

Out: -2.324+/-3.040 $\chi^2$/NDF:39.1/25

All: -1.873+/-2.180 $\chi^2$/NDF: 68.7/47

# diff_bpm4acX_rms vs Slug, Sign Corrected




Right In: 13482.879+/-3.661 $\chi^2$/NDF: 743704.4/15

Left Out: 8447.990+/-2.605 $\chi^2$/NDF:94714.7/6

Right Out: 14402.670+/-3.805 $\chi^2$/NDF: 552430.0/18

Left In: 8918.180+/-2.774 $\chi^2$/NDF:156728.7/5

Left: 8668.373+/-1.899 $\chi^2$/NDF: 266709.2/12

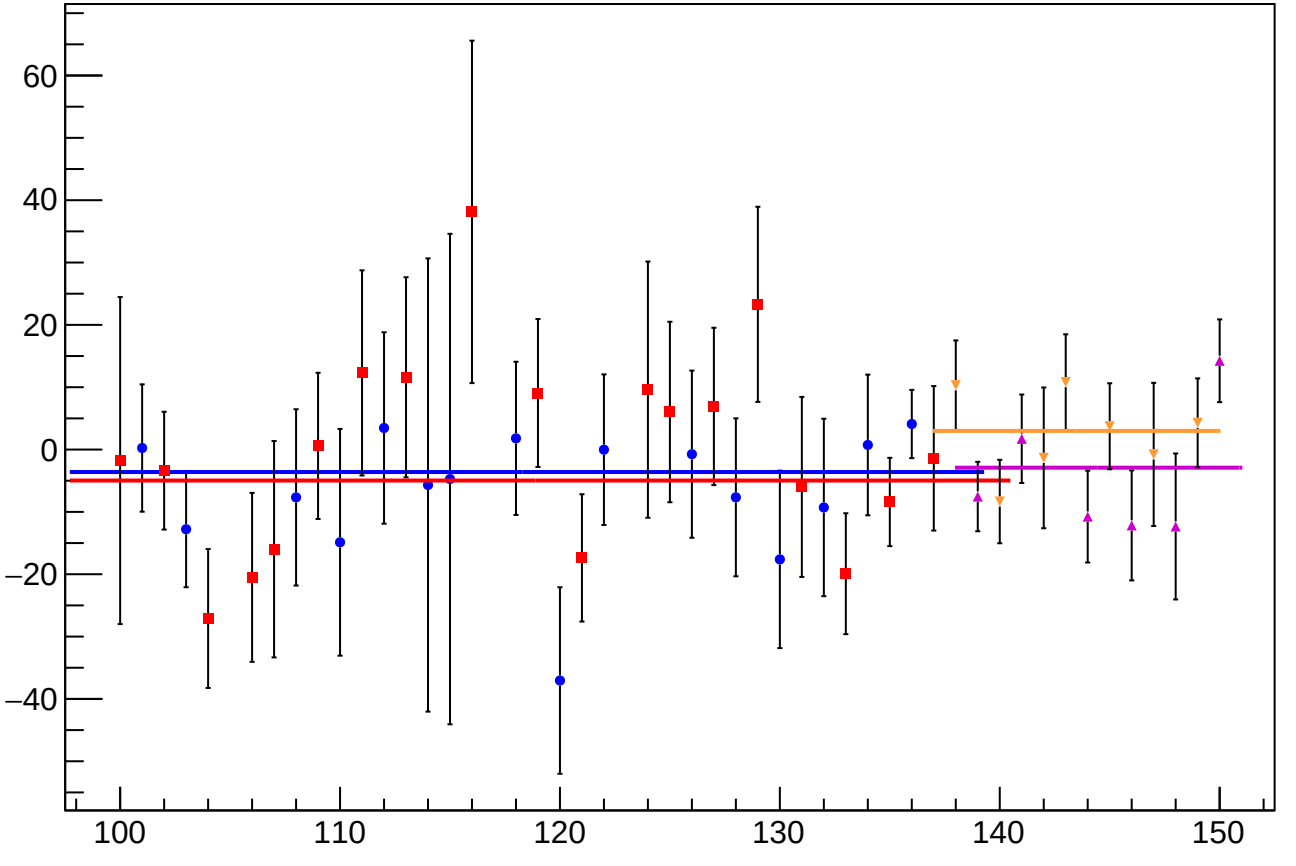
Right: 13925.139+/-2.638 $\chi^2$/NDF: 1326477.7/34

In: 10582.677+/-2.211 $\chi^2$/NDF:1887931.3/21

Out: 10348.903+/-2.150 $\chi^2$/NDF:2314730.9/25

All: 10462.502+/-1.541 $\chi^2$/NDF: 4208409.1/4

# diff_bpm4acY_mean vs Slug, Sign Corrected




Right In: -3.605+/-2.940 $\chi^2$/NDF: 10.5/15

Left Out: 2.994+/-2.952 $\chi^2$/NDF:5.2/6

Right Out: -4.965+/-2.855 $\chi^2$/NDF: 21.4/18

Left In: -2.907+/-2.970 $\chi^2$/NDF:10.7/5

Left: 0.061+/-2.094 $\chi^2$/NDF: 17.9/12

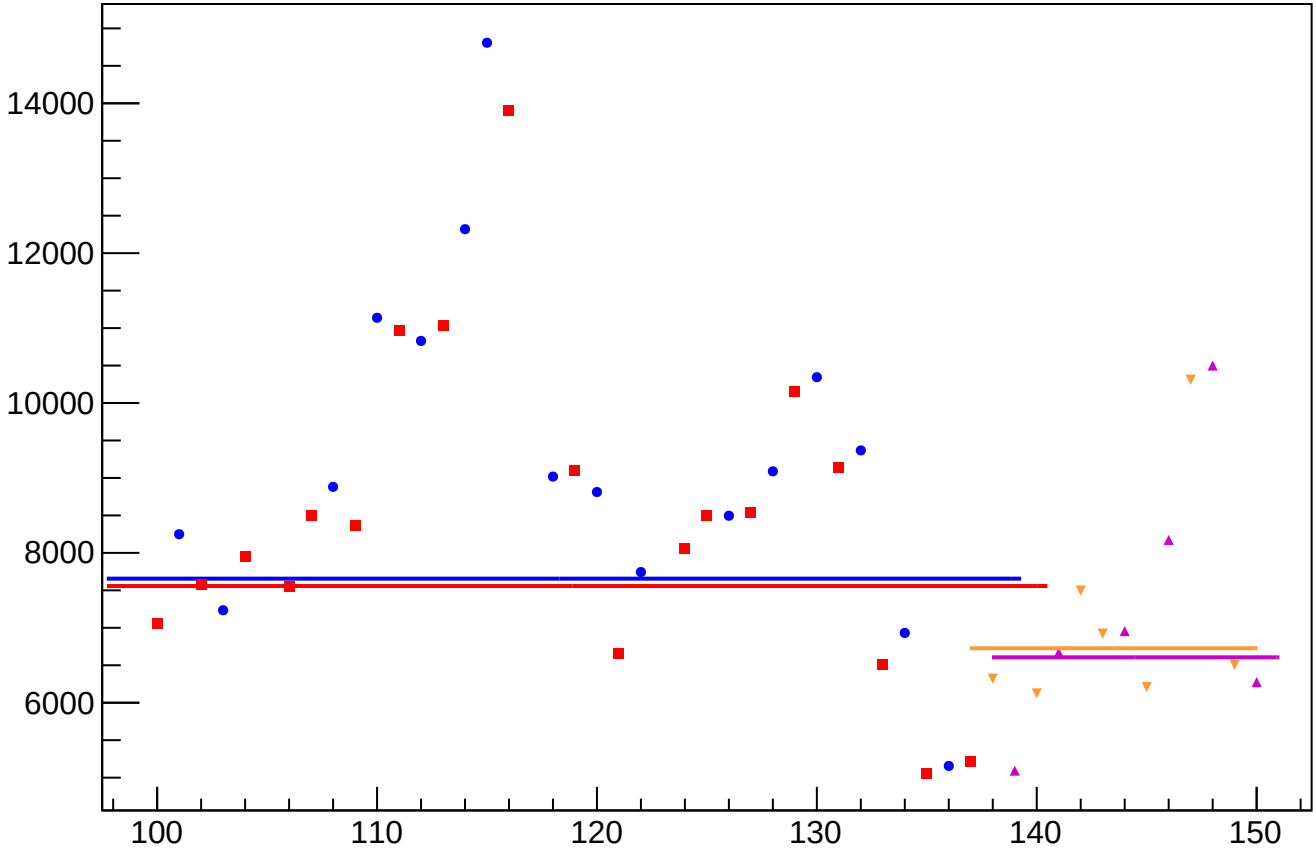
Right: -4.305+/-2.048 $\chi^2$/NDF: 32.0/34

In: -3.260+/-2.089 $\chi^2$/NDF:21.2/21

Out: -1.118+/-2.052 $\chi^2$/NDF:30.4/25

All: -2.170+/-1.464 $\chi^2$/NDF: 52.1/47

# diff_bpm4acY_rms vs Slug, Sign Corrected




Right In: 7655.851+/-2.079 $\chi^2$/NDF: 879769.7/15

Left Out: 6726.725+/-2.087 $\chi^2$/NDF:241274.3/6

Right Out: 7557.497+/-2.019 $\chi^2$/NDF: 809860.3/18

Left In: 6606.114+/-2.100 $\chi^2$/NDF:441326.9/5

Left: 6666.789+/-1.481 $\chi^2$/NDF: 684260.3/12

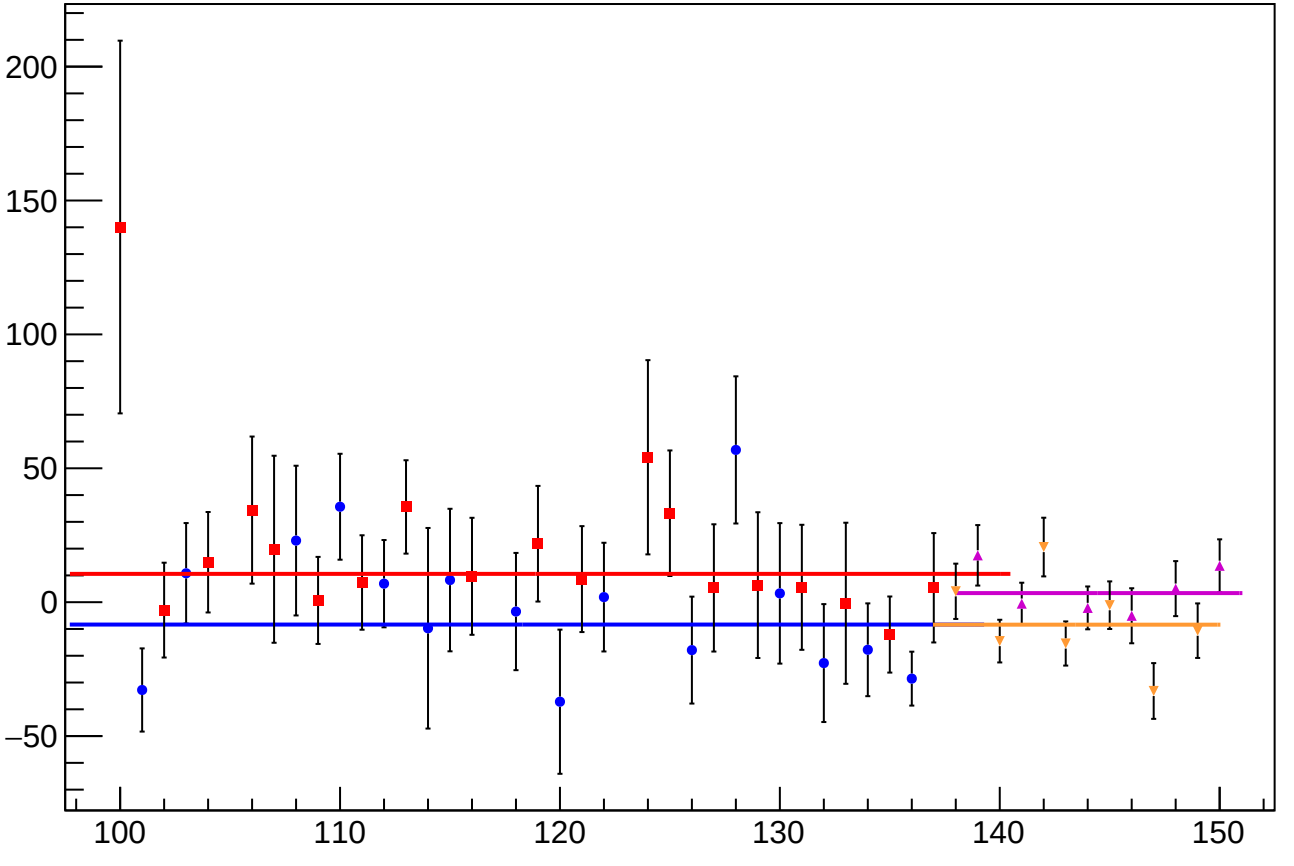
Right: 7605.240+/-1.448 $\chi^2$/NDF: 1690781.9/34

In: 7136.339+/-1.477 $\chi^2$/NDF:1447287.3/21

Out: 7155.922+/-1.451 $\chi^2$/NDF:1132969.0/25

All: 7146.306+/-1.035 $\chi^2$/NDF: 2580345.6/47

# diff_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -8.352+/-4.814 $\chi^2$/NDF: 23.2/15

Left Out: -8.395+/-3.542 $\chi^2$/NDF:16.2/6

Right Out: 10.573+/-4.911 $\chi^2$/NDF: 12.9/18

Left In: 3.397+/-3.805 $\chi^2$/NDF:4.1/5

Left: -2.920+/-2.593 $\chi^2$/NDF: 25.4/12

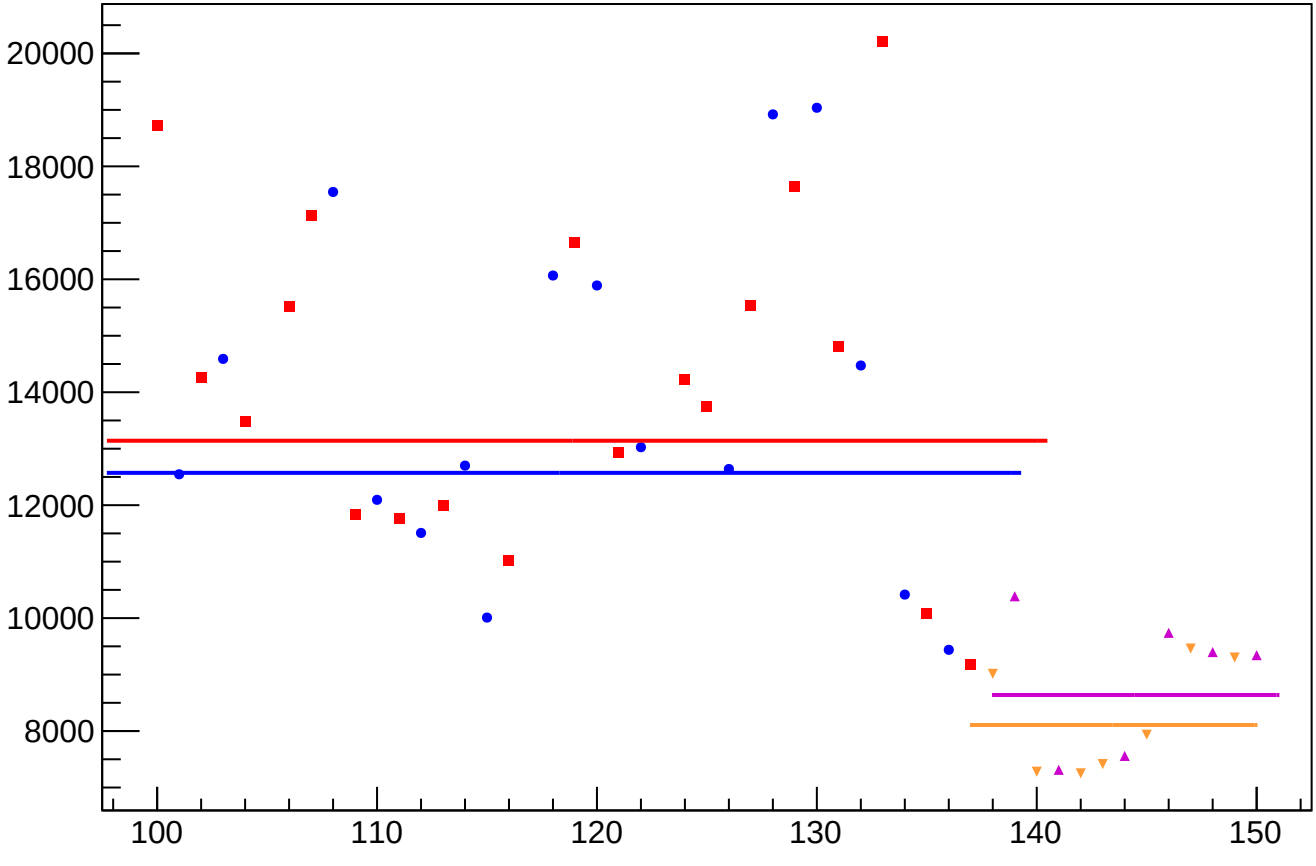
Right: 0.922+/-3.438 $\chi^2$/NDF: 43.7/34

In: -1.121+/-2.985 $\chi^2$/NDF:31.0/21

Out: -1.903+/-2.873 $\chi^2$/NDF:38.9/25

All: -1.527+/-2.070 $\chi^2$/NDF: 69.9/47

# diff_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 12572.586+/-3.404 $\chi^2$/NDF: 665026.8/15

Left Out: 8107.249+/-2.505 $\chi^2$/NDF:125337.4/6

Right Out: 13141.218+/-3.473 $\chi^2$/NDF: 534726.5/18

Left In: 8638.818+/-2.691 $\chi^2$/NDF:185951.6/5

Left: 8354.042+/-1.833 $\chi^2$/NDF: 332198.6/12

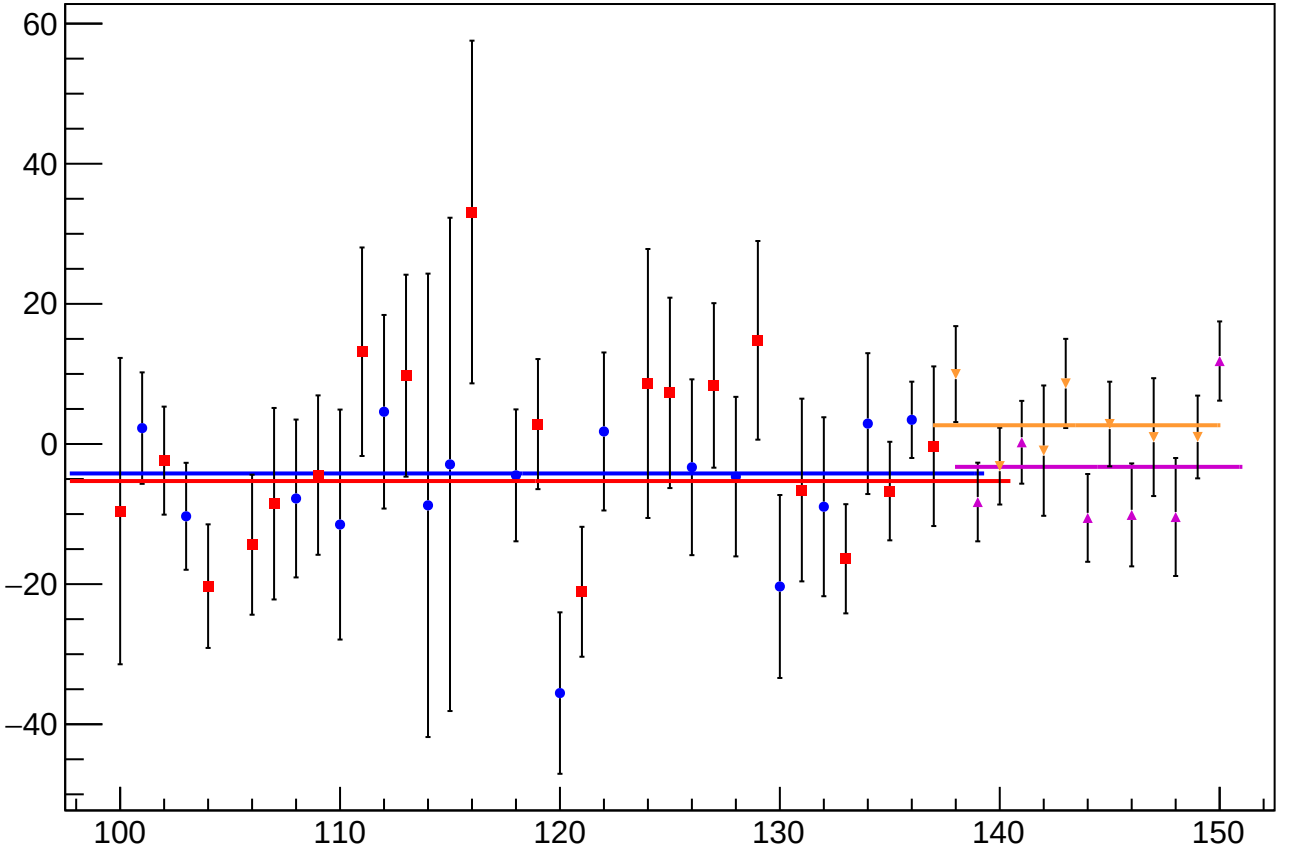
Right: 12851.222+/-2.431 $\chi^2$/NDF: 1213428.5/34

In: 10151.598+/-2.111 $\chi^2$/NDF:1672965.8/21

Out: 9830.060+/-2.031 $\chi^2$/NDF:2042358.2/25

All: 9984.671+/-1.464 $\chi^2$/NDF: 3727370.3/47

# diff_bpm4ecY_mean vs Slug, Sign Corrected




Right In: -4.204+/-2.600 $\chi^2$/NDF: 13.9/15

Left Out: 2.676+/-2.492 $\chi^2$/NDF:3.4/6

Right Out: -5.288+/-2.502 $\chi^2$/NDF: 19.7/18

Left In: -3.262+/-2.584 $\chi^2$/NDF:11.2/5

Left: -0.186+/-1.794 $\chi^2$/NDF: 17.4/12

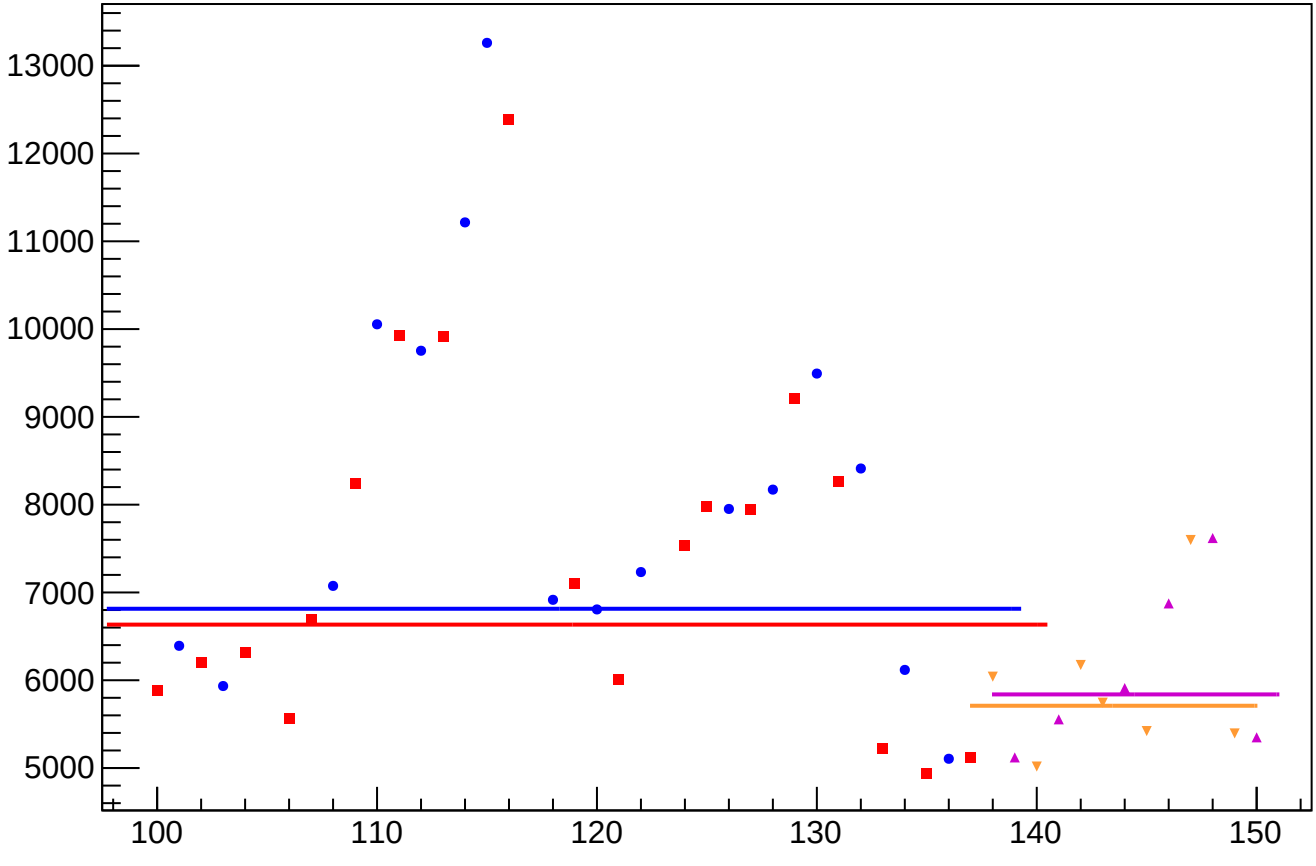
Right: -4.767+/-1.803 $\chi^2$/NDF: 33.7/34

In: -3.730+/-1.833 $\chi^2$/NDF:25.2/21

Out: -1.290+/-1.766 $\chi^2$/NDF:28.2/25

All: -2.464+/-1.272 $\chi^2$/NDF: 54.3/47

# diff_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 6814.282+/-1.839 $\chi^2$/NDF: 674093.4/15

Left Out: 5709.485+/-1.762 $\chi^2$/NDF:152678.7/6

Right Out: 6633.695+/-1.769 $\chi^2$/NDF: 763347.6/18

Left In: 5838.663+/-1.827 $\chi^2$/NDF:181854.4/5

Left: 5771.733+/-1.268 $\chi^2$/NDF: 337123.0/12

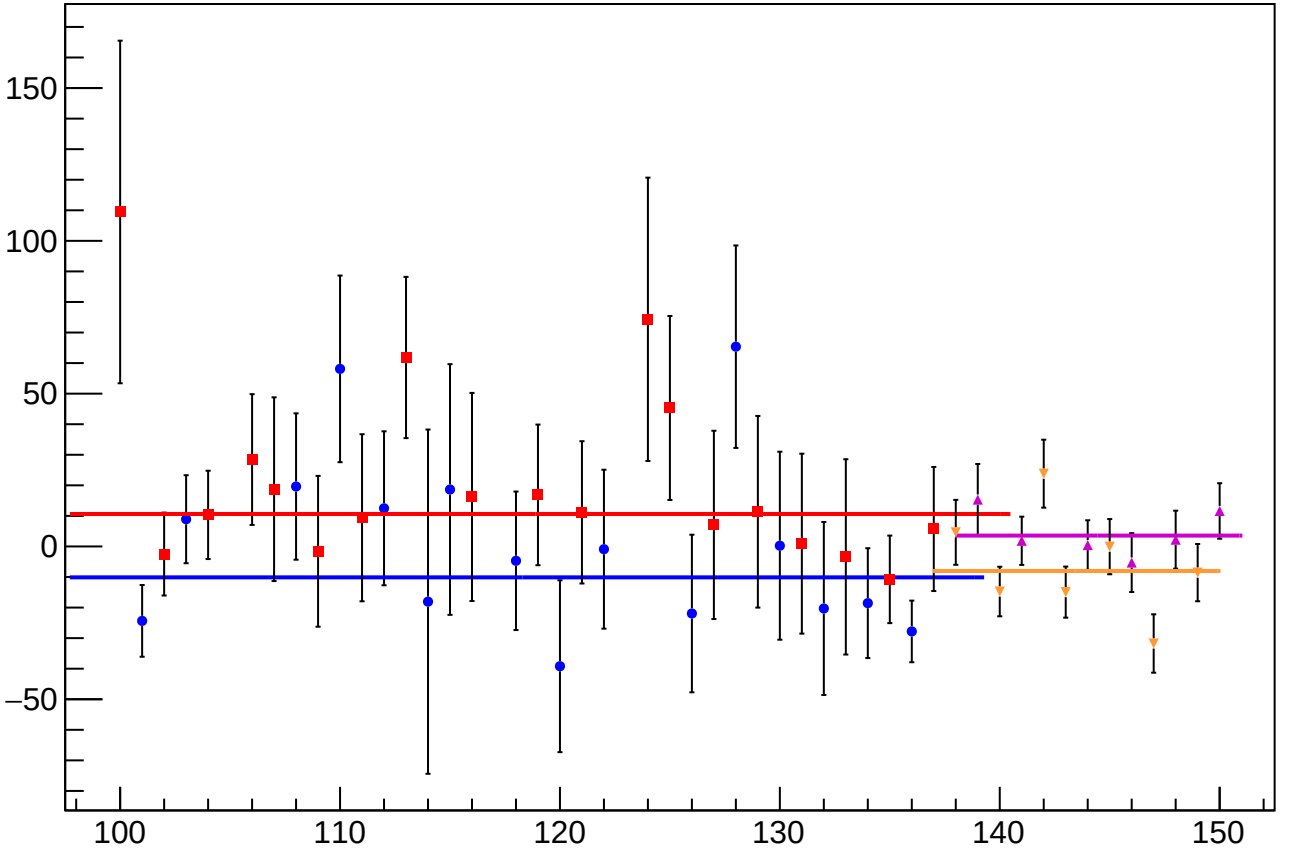
Right: 6720.509+/-1.275 $\chi^2$/NDF: 1442449.8/34

In: 6323.378+/-1.296 $\chi^2$/NDF:997606.4/21

Out: 6169.713+/-1.248 $\chi^2$/NDF:1053027.3/25

All: 6243.672+/-0.899 $\chi^2$/NDF: 2057925.3/47

# diff_bpm1X_mean vs Slug, Sign Corrected




Right In: -10.113+/-5.017 $\chi^2$/NDF: 21.3/15

Left Out: -8.029+/-3.513 $\chi^2$/NDF:17.9/6

Right Out: 10.624+/-5.277 $\chi^2$/NDF: 14.7/18

Left In: 3.554+/-3.711 $\chi^2$/NDF:2.9/5

Left: -2.555+/-2.551 $\chi^2$/NDF: 25.9/12

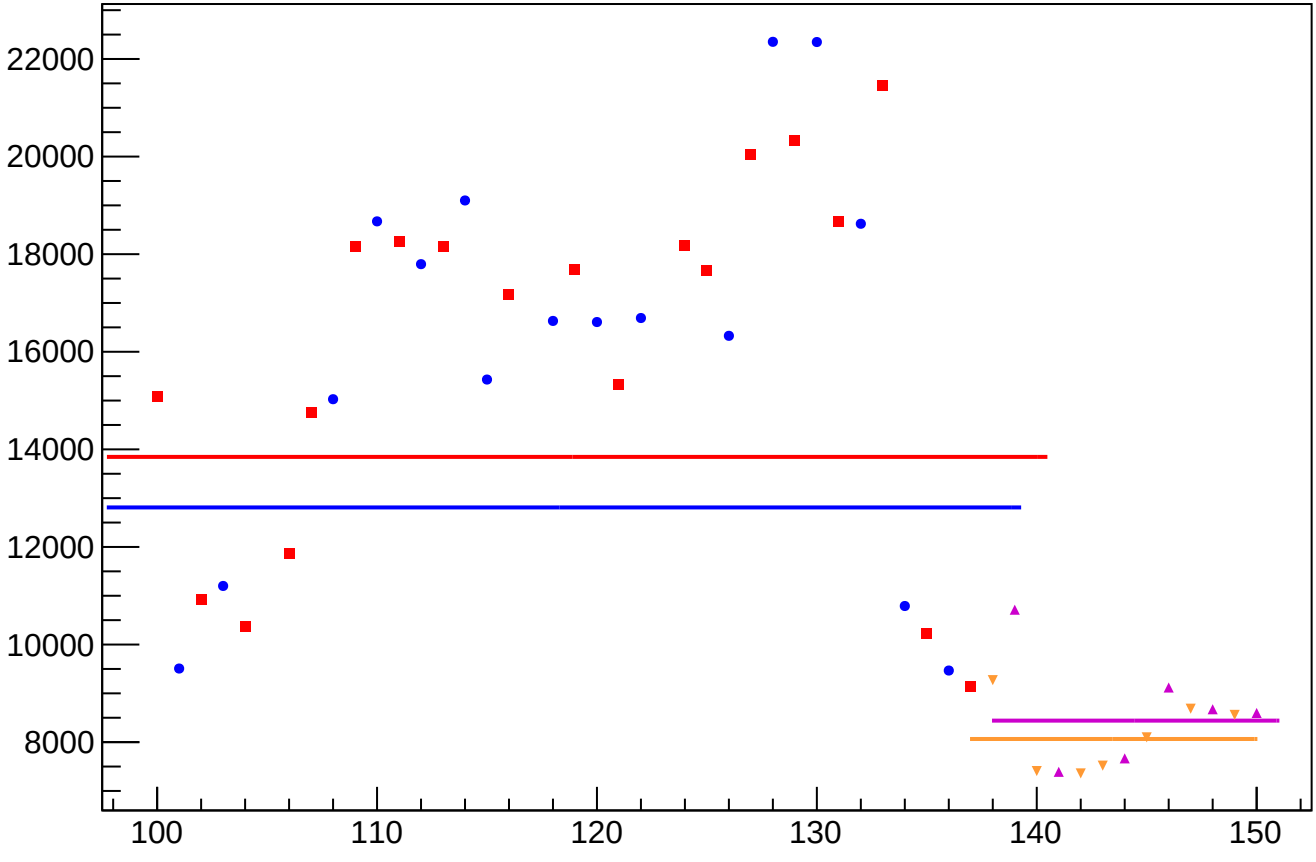
Right: -0.267+/-3.636 $\chi^2$/NDF: 44.1/34

In: -1.278+/-2.983 $\chi^2$/NDF:28.9/21

Out: -2.302+/-2.924 $\chi^2$/NDF:41.3/25

All: -1.800+/-2.088 $\chi^2$/NDF: 70.3/47

# diff_bpm1X_rms vs Slug, Sign Corrected




Right In: 12809.964+/-3.548 $\chi^2$/NDF: 1248252.1/15

Left Out: 8064.705+/-2.484 $\chi^2$/NDF:69522.6/6

Right Out: 13845.622+/-3.731 $\chi^2$/NDF: 1096555.2/18

Left In: 8441.003+/-2.624 $\chi^2$/NDF:141386.6/5

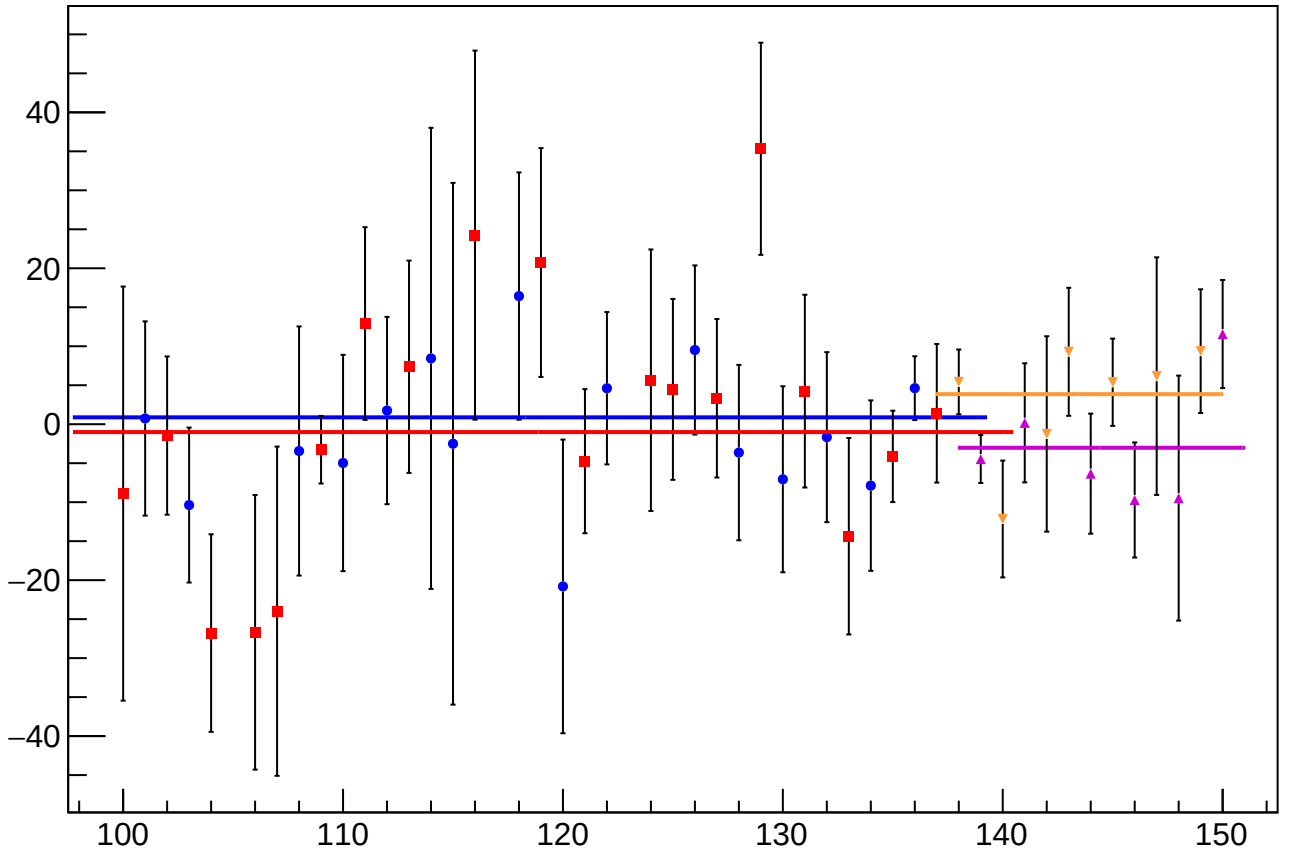
Left: 8242.535+/-1.804 $\chi^2$/NDF: 221756.6/12

Right: 13301.707+/-2.571 $\chi^2$/NDF: 2385270.2/34

In: 9985.836+/-2.110 $\chi^2$/NDF:2369951.9/21

Out: 9839.772+/-2.068 $\chi^2$/NDF:2829492.9/25

All: 9911.333+/-1.477 $\chi^2$/NDF: 5201890.0/47




Right In: 0.882+/-2.566 $\chi^2$/NDF: 6.8/15

Left Out: 3.857+/-2.590 $\chi^2$/NDF:5.9/6

Right Out: -1.006+/-2.314 $\chi^2$/NDF: 22.3/18

Left In: -3.020+/-2.337 $\chi^2$/NDF:6.0/5

Left: 0.066+/-1.735 $\chi^2$/NDF: 15.8/12

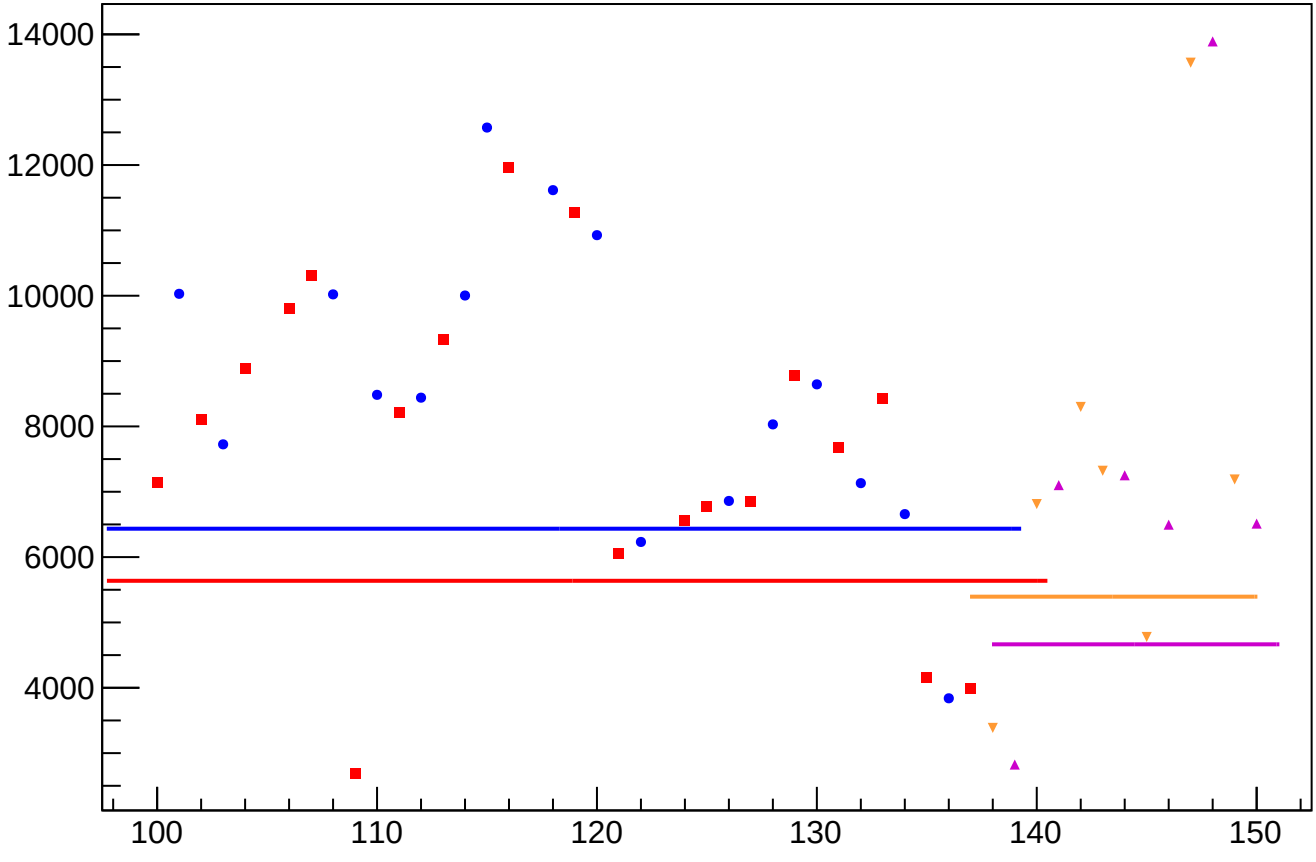
Right: -0.159+/-1.718 $\chi^2$/NDF: 29.4/34

In: -1.252+/-1.728 $\chi^2$/NDF:14.1/21

Out: 1.153+/-1.726 $\chi^2$/NDF:30.2/25

All: -0.048+/-1.221 $\chi^2$/NDF: 45.2/47

# diff_bpm1Y_rms vs Slug, Sign Corrected




Right In: 6434.559+/-1.814 $\chi^2$/NDF: 1750609.4/15

Left Out: 5394.510+/-1.831 $\chi^2$/NDF:1458379.7/6

Right Out: 5637.344+/-1.636 $\chi^2$/NDF: 2580013.6/18

Left In: 4665.155+/-1.652 $\chi^2$/NDF:2101608.1/5

Left: 4992.423+/-1.227 $\chi^2$/NDF: 3647432.9/12

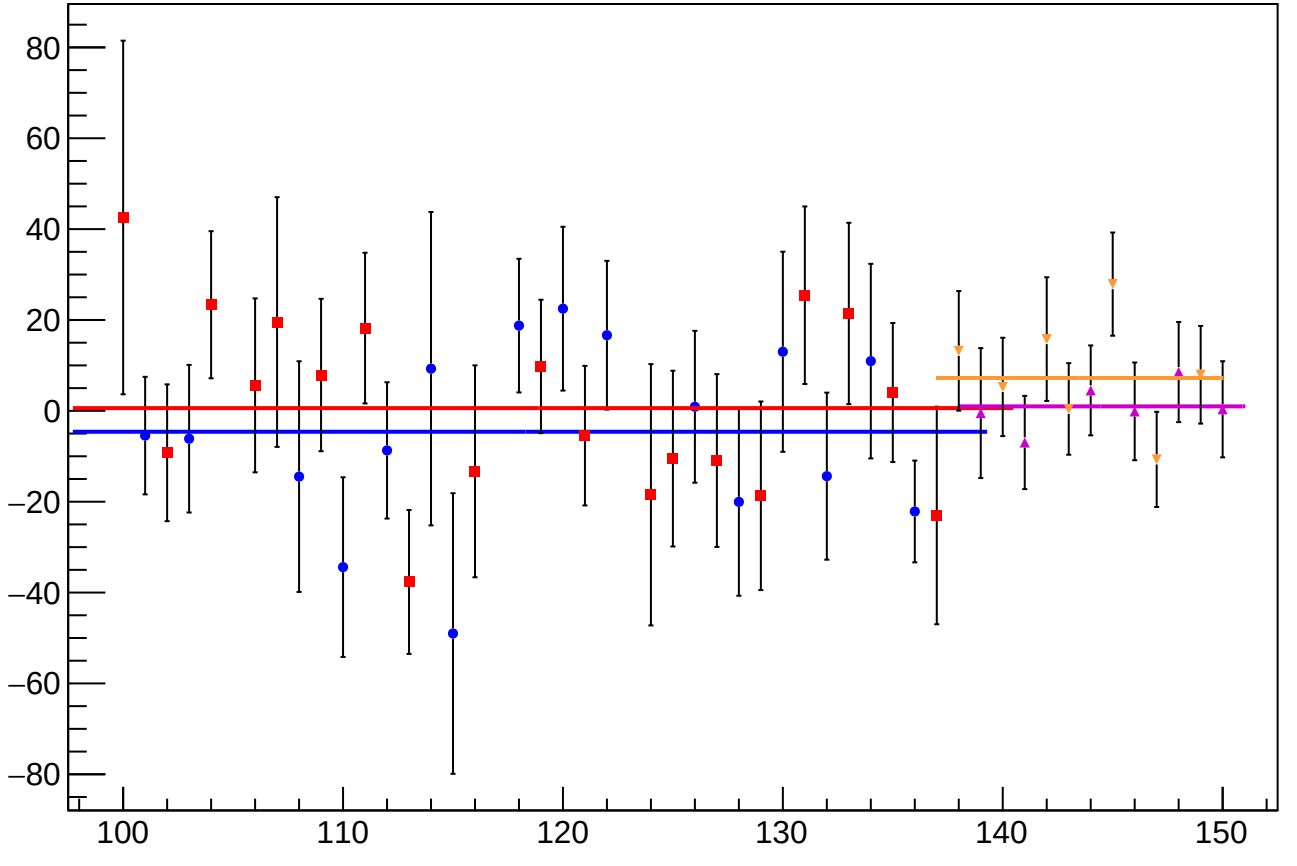
Right: 5994.862+/-1.215 $\chi^2$/NDF: 4437091.5/34

In: 5467.187+/-1.222 $\chi^2$/NDF:4372108.7/21

Out: 5529.550+/-1.220 $\chi^2$/NDF:4048171.2/25

All: 5498.407+/-0.863 $\chi^2$/NDF: 8421584.6/47

# diff_bpm11X_mean vs Slug, Sign Corrected




Right In: -4.602+/-4.355 $\chi^2$/NDF: 15.8/15

Left Out: 7.232+/-4.261 $\chi^2$/NDF:7.3/6

Right Out: 0.600+/-4.266 $\chi^2$/NDF: 17.9/18

Left In: 0.986+/-4.454 $\chi^2$/NDF:1.2/5

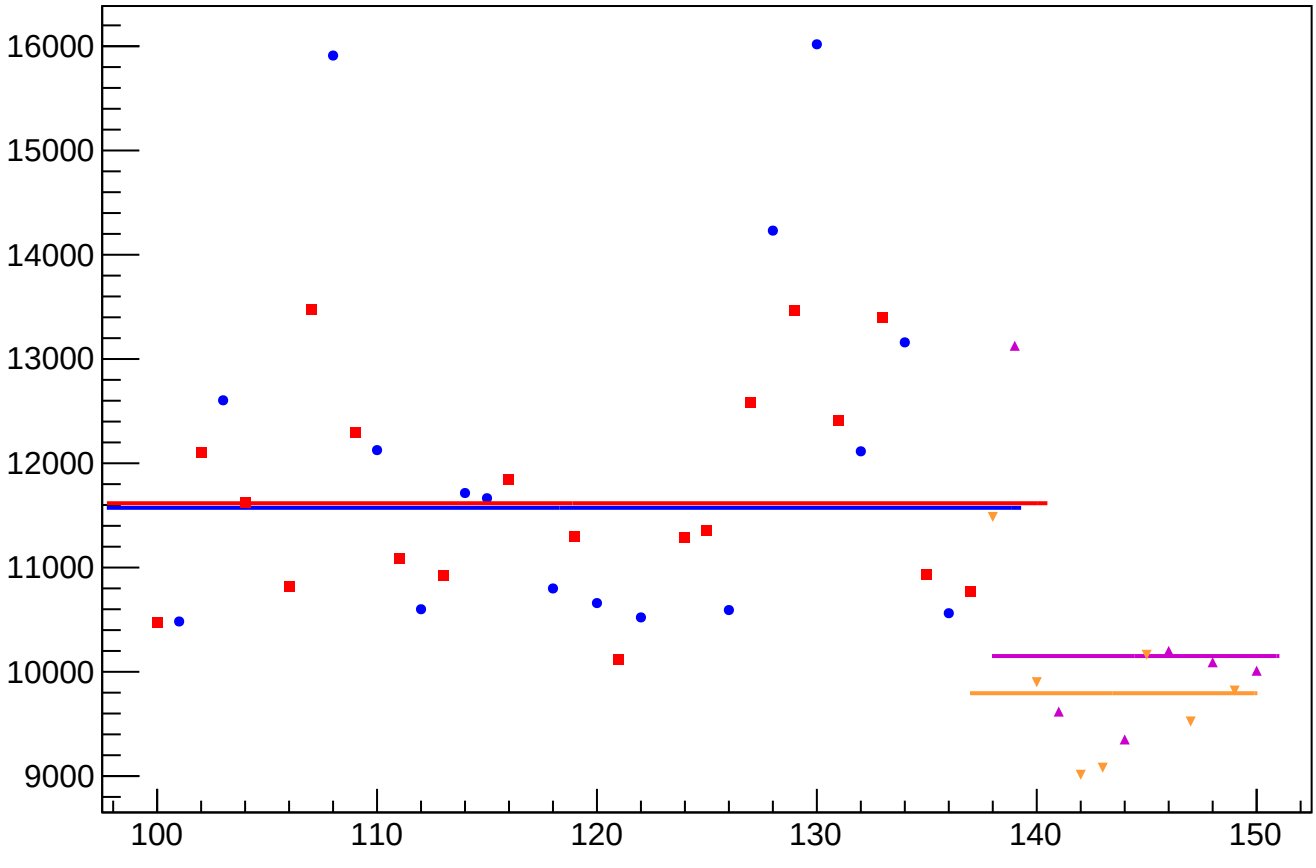
Left: 4.247+/-3.079 $\chi^2$/NDF: 9.6/12

Right: -1.948+/-3.048 $\chi^2$/NDF: 34.4/34

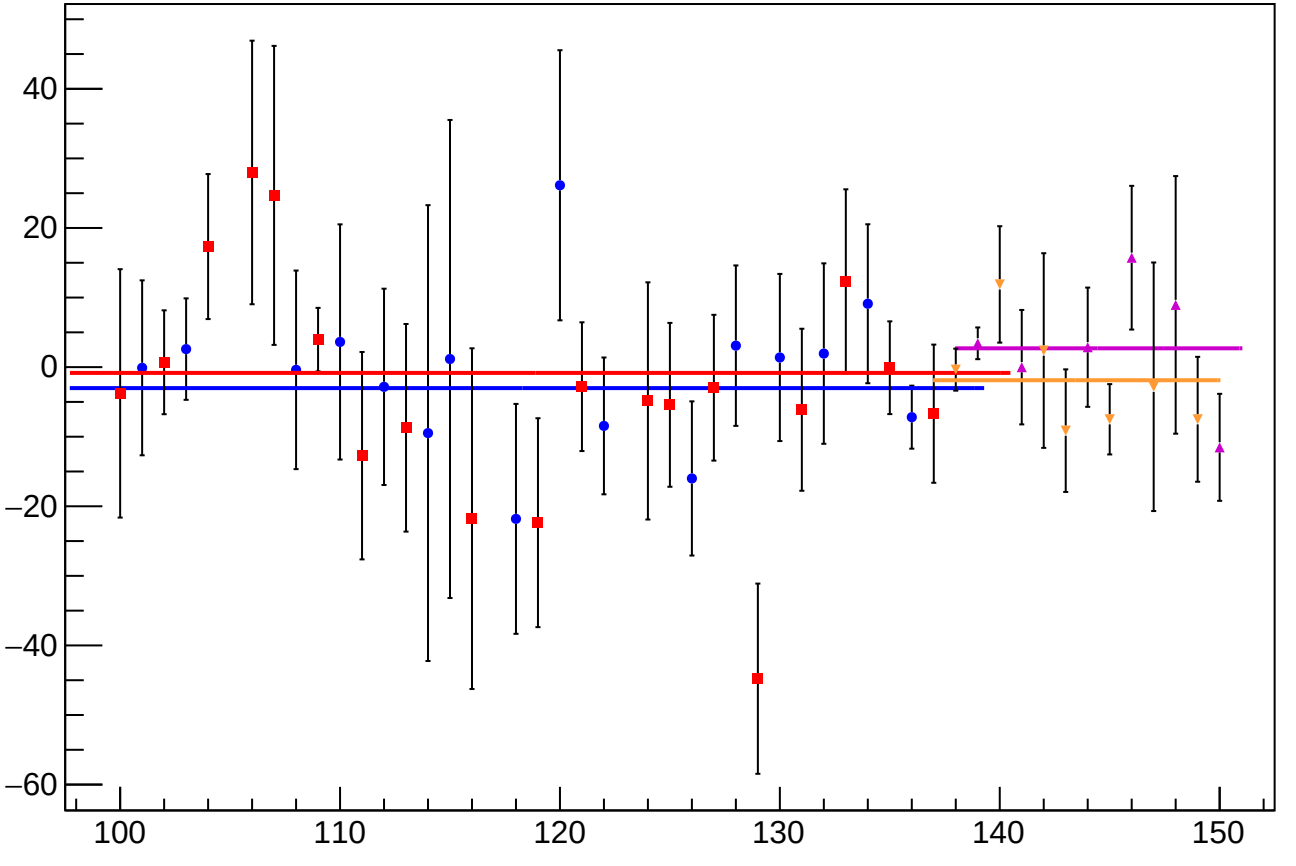
In: -1.871+/-3.114 $\chi^2$/NDF:17.8/21

Out: 3.920+/-3.015 $\chi^2$/NDF:26.4/25

All: 1.118+/-2.166 $\chi^2$/NDF: 46.0/47


diff_bpm11X_rms vs Slug, Sign Corrected
16000
15000
14000
13000
12000
11000
10000
9000
100
110
120
130
140
150
Right In: 11573.073+/-3.079 χ²/NDF: 260067.0/15
Left Out: 9794.707+/-3.013 χ²/NDF:53314.8/6
Right Out: 11616.773+/-3.017 χ²/NDF: 93165.6/18
Left In: 10151.248+/-3.150 χ²/NDF:105436.2/5
Left: 9965.089+/-2.177 χ²/NDF: 165441.4/12
Right: 11595.370+/-2.155 χ²/NDF: 353335.4/34
In: 10878.240+/-2.202 χ²/NDF:469696.2/21
Out: 10704.656+/-2.132 χ²/NDF:329080.9/25
All: 10788.650+/-1.532 χ²/NDF: 801984.8/47

# diff_bpm11Y_mean vs Slug, Sign Corrected




Right In: -3.014+/-2.654 $\chi^2$/NDF: 8.7/15

Left Out: -1.884+/-2.254 $\chi^2$/NDF:5.4/6

Right Out: -0.831+/-2.352 $\chi^2$/NDF: 23.8/18

Left In: 2.704+/-2.000 $\chi^2$/NDF:5.3/5

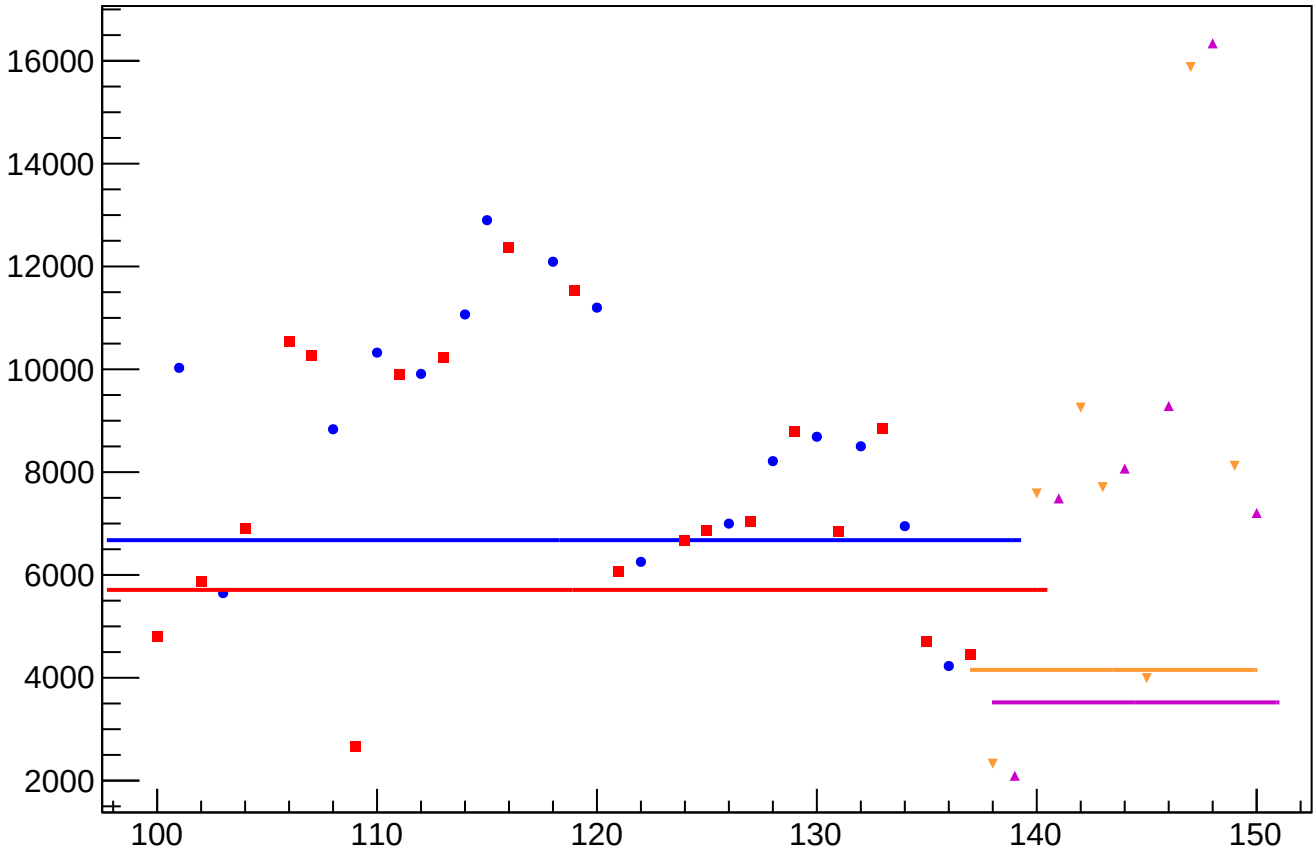
Left: 0.683+/-1.496 $\chi^2$/NDF: 13.0/12

Right: -1.791+/-1.760 $\chi^2$/NDF: 32.9/34

In: 0.633+/-1.597 $\chi^2$/NDF:17.0/21

Out: -1.380+/-1.627 $\chi^2$/NDF:29.3/25

All: -0.355+/-1.140 $\chi^2$/NDF: 47.0/47




Right In: 6676.920+/-1.877 $\chi^2$/NDF: 1572864.3/15

Left Out: 4153.808+/-1.594 $\chi^2$/NDF:2914956.4/6

Right Out: 5709.821+/-1.663 $\chi^2$/NDF: 2301039.5/18

Left In: 3521.605+/-1.414 $\chi^2$/NDF:3852679.5/5

Left: 3800.105+/-1.058 $\chi^2$/NDF: 6855656.1/12

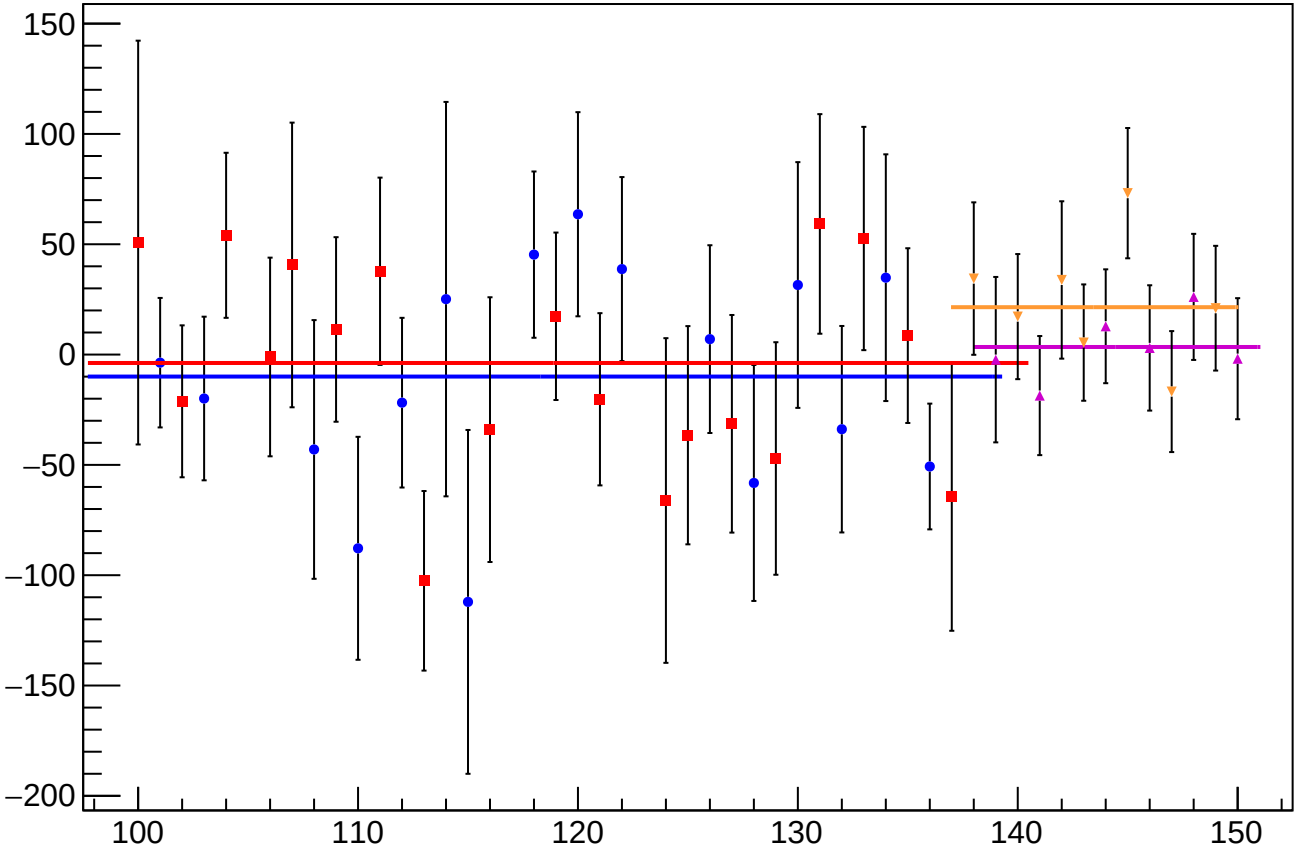
Right: 6135.167+/-1.245 $\chi^2$/NDF: 4022672.5/34

In: 4664.587+/-1.129 $\chi^2$/NDF:7228485.8/21

Out: 4898.883+/-1.151 $\chi^2$/NDF:5672348.1/25

All: 4779.560+/-0.806 $\chi^2$/NDF: 12921949.5/4

# diff_bpm12X_mean vs Slug, Sign Corrected




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 21.473+/-11.156 $\chi^2$/NDF:5.7/6

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 3.436+/-11.641 $\chi^2$/NDF:1.5/5

Left: 12.839+/-8.054 $\chi^2$/NDF: 8.4/12

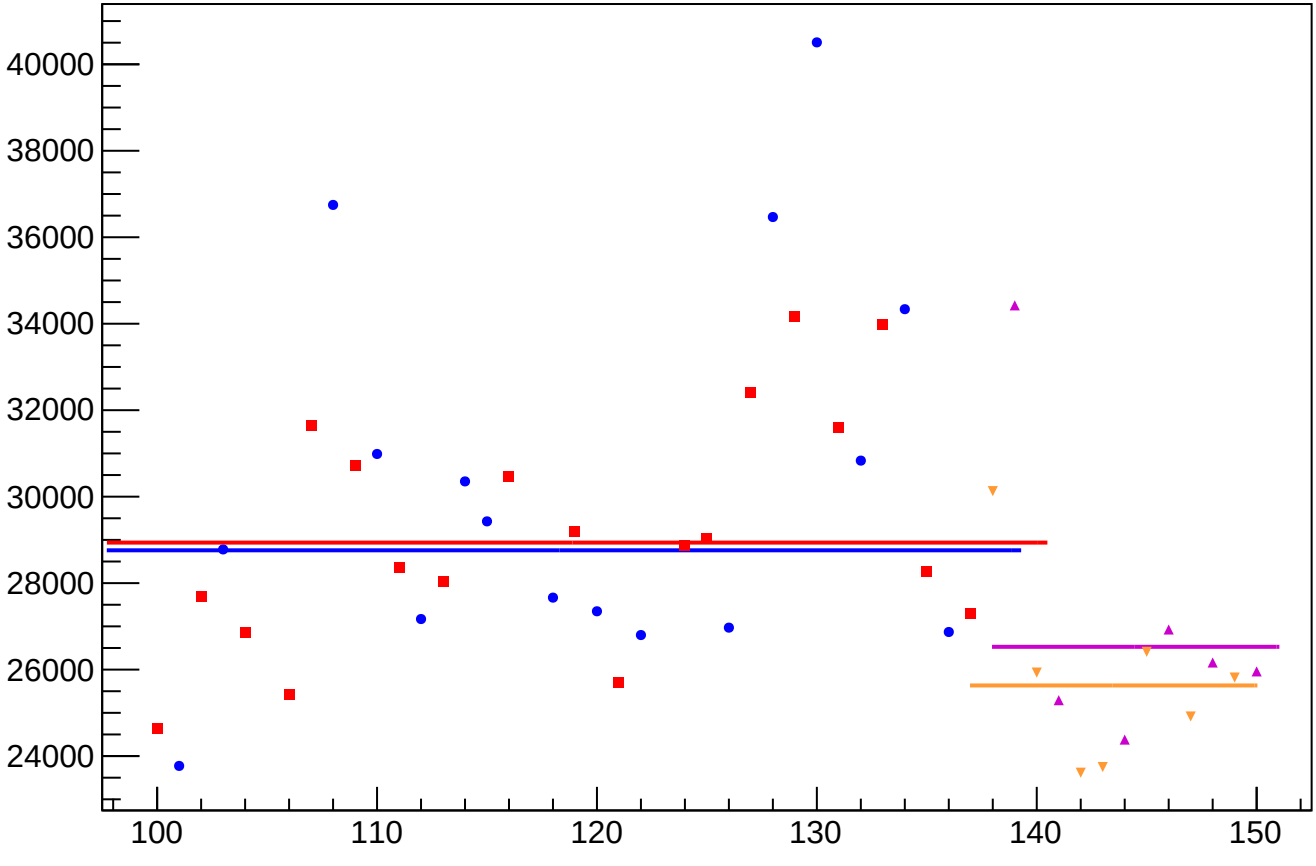
Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

In: -3.746+/-7.932 $\chi^2$/NDF:17.5/21

Out: 8.228+/-7.698 $\chi^2$/NDF:25.6/25

All: 2.420+/-5.524 $\chi^2$/NDF: 44.3/47

# diff_bpm12X_rms vs Slug, Sign Corrected




Right In: 28759.090+/-7.662 $\chi^2$/NDF: 277639.9/15

Left Out: 25633.497+/-7.888 $\chi^2$/NDF:53566.3/6

Right Out: 28937.633+/-7.521 $\chi^2$/NDF: 106266.0/18

Left In: 26527.155+/-8.232 $\chi^2$/NDF:108352.4/5

Left: 26061.295+/-5.695 $\chi^2$/NDF: 168062.8/12

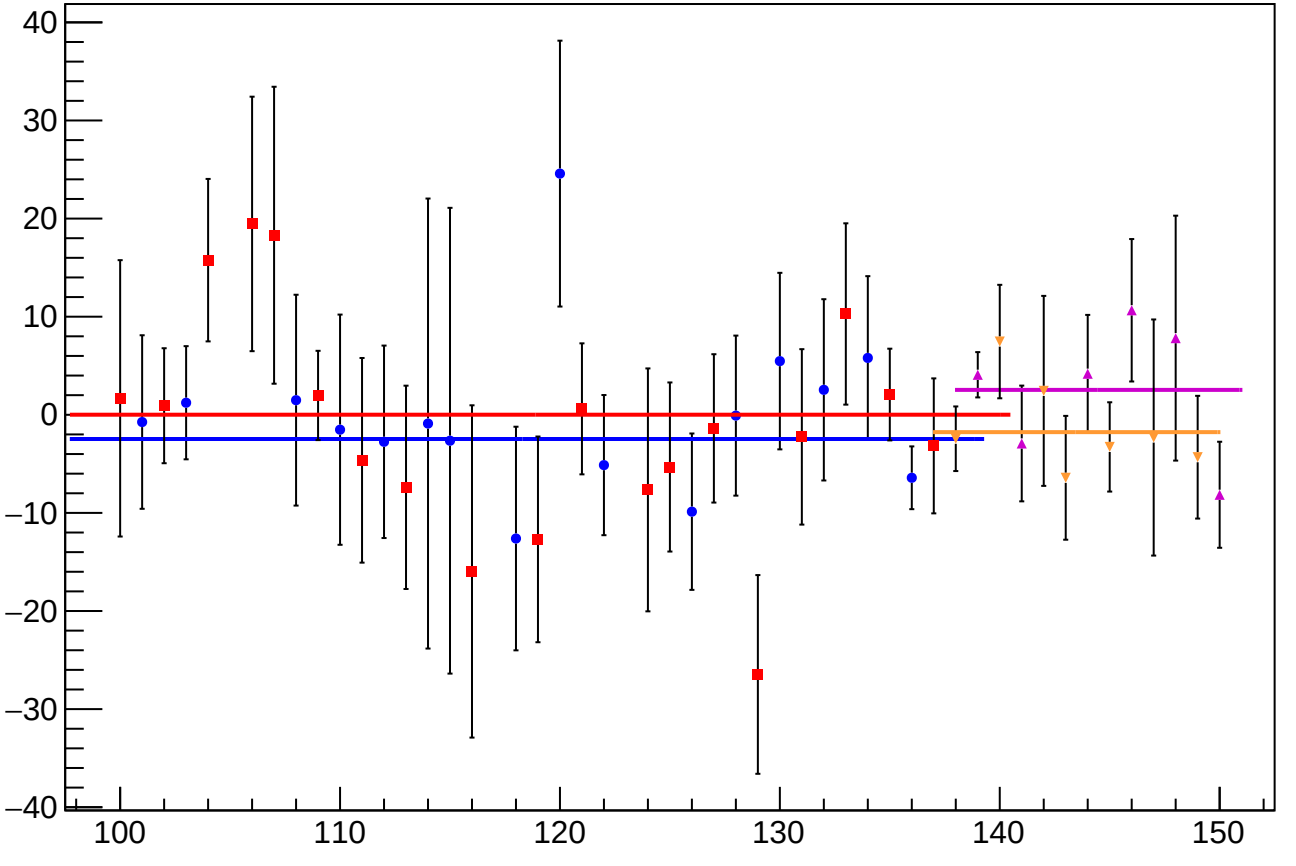
Right: 28850.024+/-5.367 $\chi^2$/NDF: 384182.4/34

In: 27722.948+/-5.609 $\chi^2$/NDF:425380.9/21

Out: 27364.259+/-5.443 $\chi^2$/NDF:251738.5/25

All: 27538.241+/-3.906 $\chi^2$/NDF: 679225.6/47

# diff_bpm12Y_mean vs Slug, Sign Corrected




Right In: -2.467+/-1.916 $\chi^2$/NDF: 10.0/15

Left Out: -1.767+/-2.047 $\chi^2$/NDF:3.6/6

Right Out: 0.009+/-1.828 $\chi^2$/NDF: 20.0/18

Left In: 2.539+/-1.814 $\chi^2$/NDF:6.7/5

Left: 0.644+/-1.358 $\chi^2$/NDF: 12.8/12

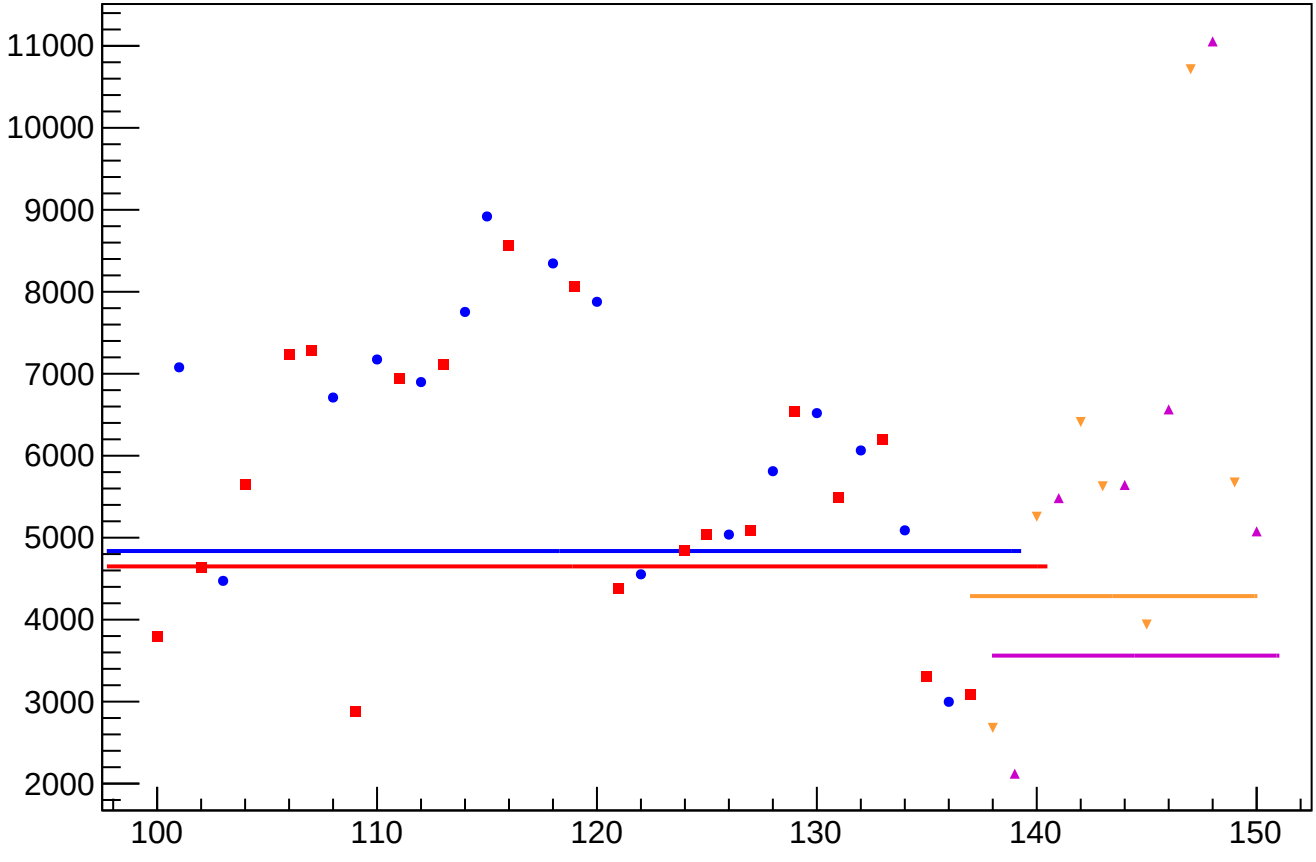
Right: -1.171+/-1.323 $\chi^2$/NDF: 30.9/34

In: 0.172+/-1.317 $\chi^2$/NDF:20.4/21

Out: -0.779+/-1.364 $\chi^2$/NDF:24.0/25

All: -0.287+/-0.947 $\chi^2$/NDF: 44.6/47

# diff_bpm12Y_rms vs Slug, Sign Corrected




Right In: 4837.176+/-1.355 $\chi^2$/NDF: 1547766.9/15

Left Out: 4287.248+/-1.447 $\chi^2$/NDF:1399499.6/6

Right Out: 4649.613+/-1.293 $\chi^2$/NDF: 1434548.7/18

Left In: 3561.252+/-1.283 $\chi^2$/NDF:2452254.5/5

Left: 3880.674+/-0.960 $\chi^2$/NDF: 3992651.0/12

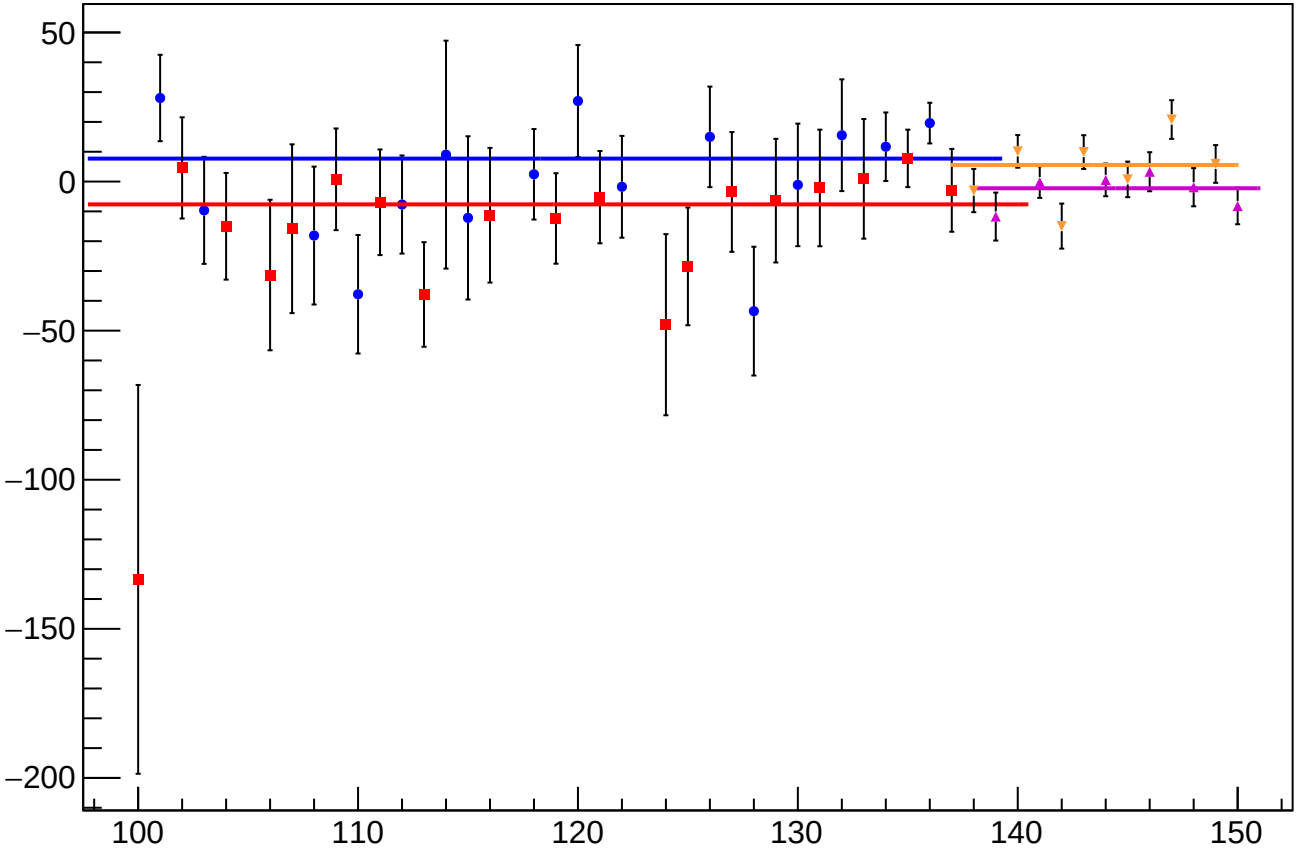
Right: 4739.013+/-0.935 $\chi^2$/NDF: 2992350.1/34

In: 4164.582+/-0.931 $\chi^2$/NDF:4467736.6/21

Out: 4488.825+/-0.964 $\chi^2$/NDF:2868915.2/25

All: 4321.114+/-0.670 $\chi^2$/NDF: 7395150.9/47

# diff_bpm16X_mean vs Slug, Sign Corrected




Right In: 7.699+/-3.820 $\chi^2$/NDF: 21.6/15

Left Out: 5.563+/-2.369 $\chi^2$/NDF:16.2/6

Right Out: -7.650+/-4.099 $\chi^2$/NDF: 14.6/18

Left In: -2.251+/-2.512 $\chi^2$/NDF:3.5/5

Left: 1.885+/-1.724 $\chi^2$/NDF: 24.8/12

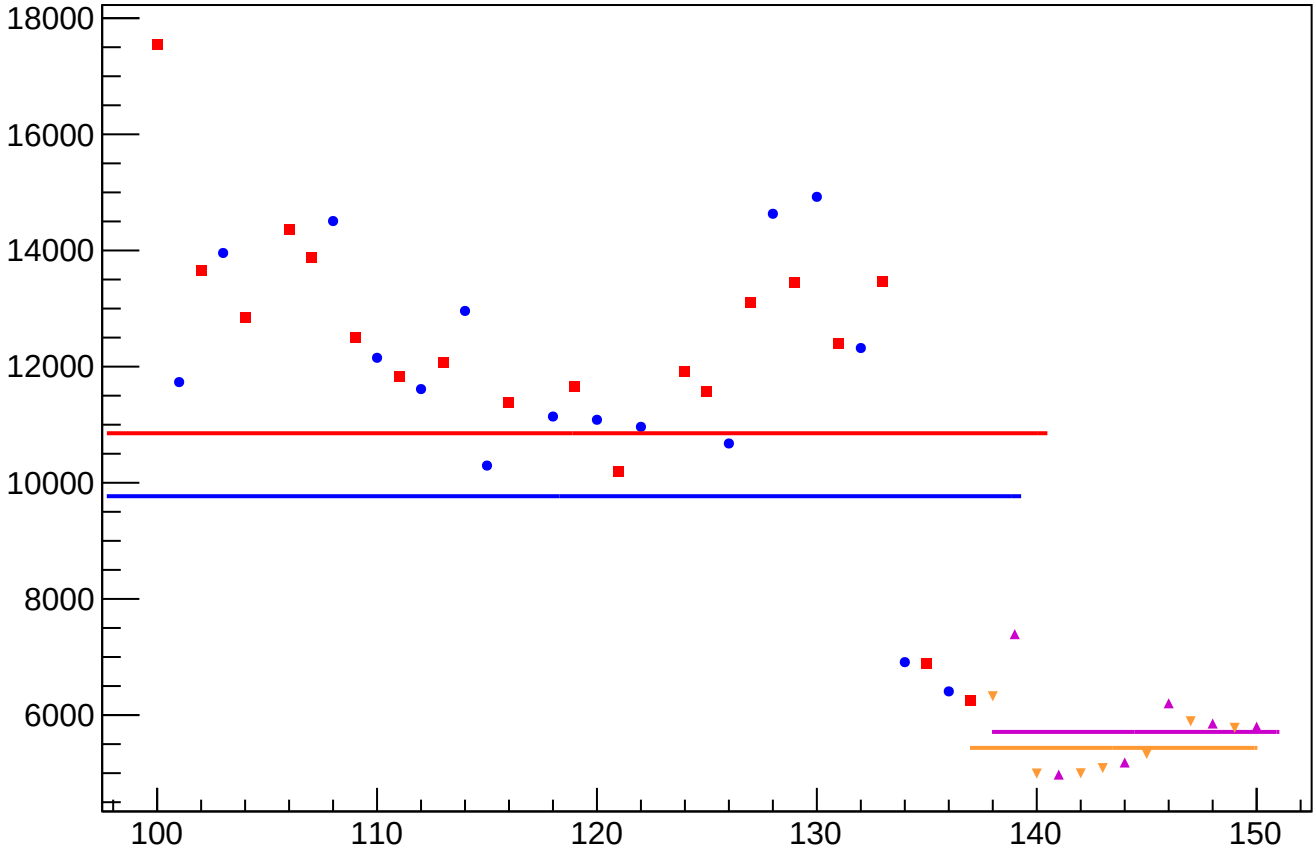
Right: 0.565+/-2.795 $\chi^2$/NDF: 43.7/34

In: 0.753+/-2.099 $\chi^2$/NDF:29.8/21

Out: 2.255+/-2.051 $\chi^2$/NDF:38.6/25

All: 1.521+/-1.467 $\chi^2$/NDF: 68.7/47

# diff_bpm16X_rms vs Slug, Sign Corrected




Right In: 9768.772+/-2.701 $\chi^2$/NDF: 1213694.6/15

Left Out: 5435.365+/-1.675 $\chi^2$/NDF:73967.3/6

Right Out: 10852.989+/-2.899 $\chi^2$/NDF: 874500.2/18

Left In: 5710.112+/-1.776 $\chi^2$/NDF:157137.6/5

Left: 5564.692+/-1.219 $\chi^2$/NDF: 243767.4/12

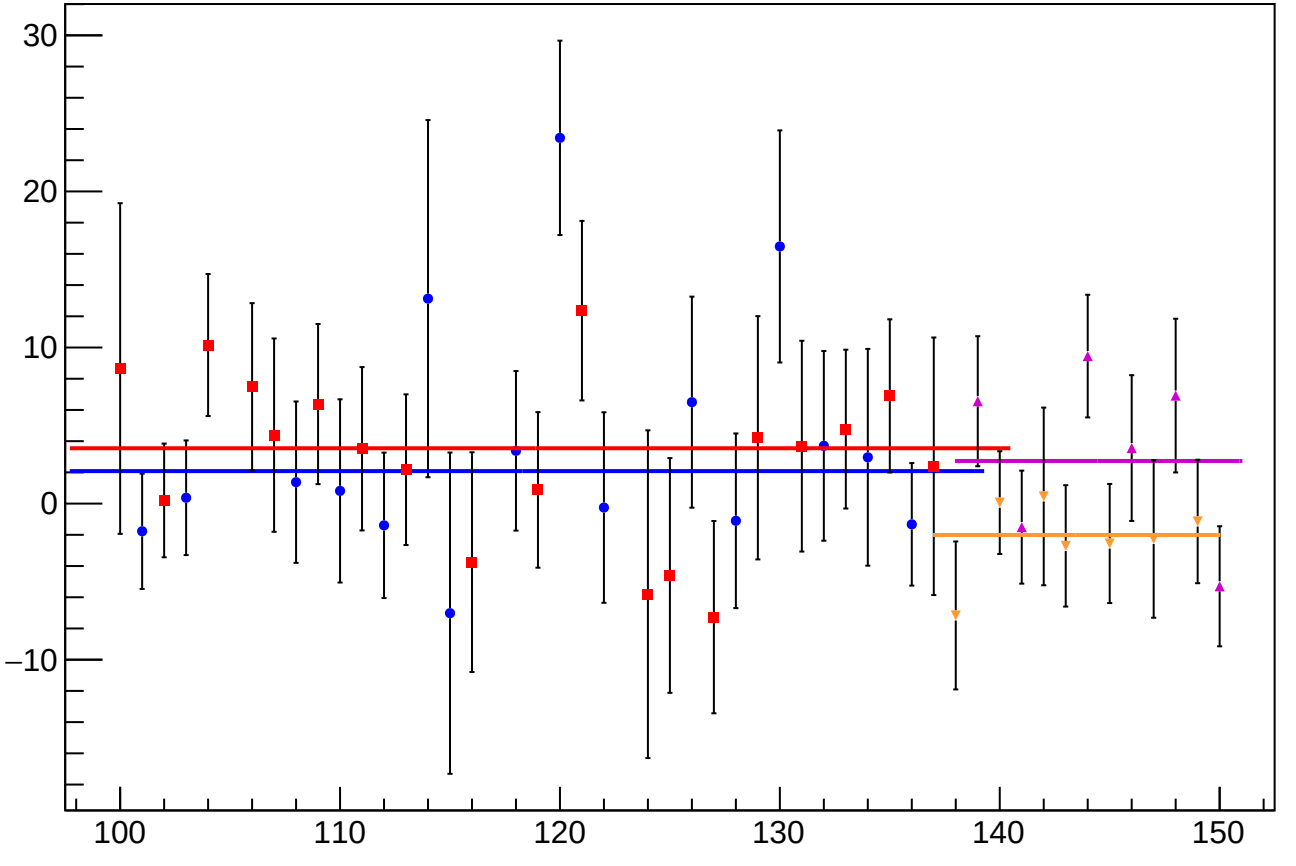
Right: 10272.667+/-1.976 $\chi^2$/NDF: 2163082.8/34

In: 6935.515+/-1.484 $\chi^2$/NDF:2947078.8/21

Out: 6791.768+/-1.450 $\chi^2$/NDF:3567209.4/25

All: 6861.988+/-1.037 $\chi^2$/NDF: 6519086.8/47

# diff_bpm16Y_mean vs Slug, Sign Corrected




Right In: 2.082+/-1.345 $\chi^2$/NDF: 21.0/15

Left Out: -2.010+/-1.570 $\chi^2$/NDF:1.9/6

Right Out: 3.546+/-1.304 $\chi^2$/NDF: 13.4/18

Left In: 2.732+/-1.682 $\chi^2$/NDF:10.2/5

Left: 0.197+/-1.148 $\chi^2$/NDF: 16.4/12

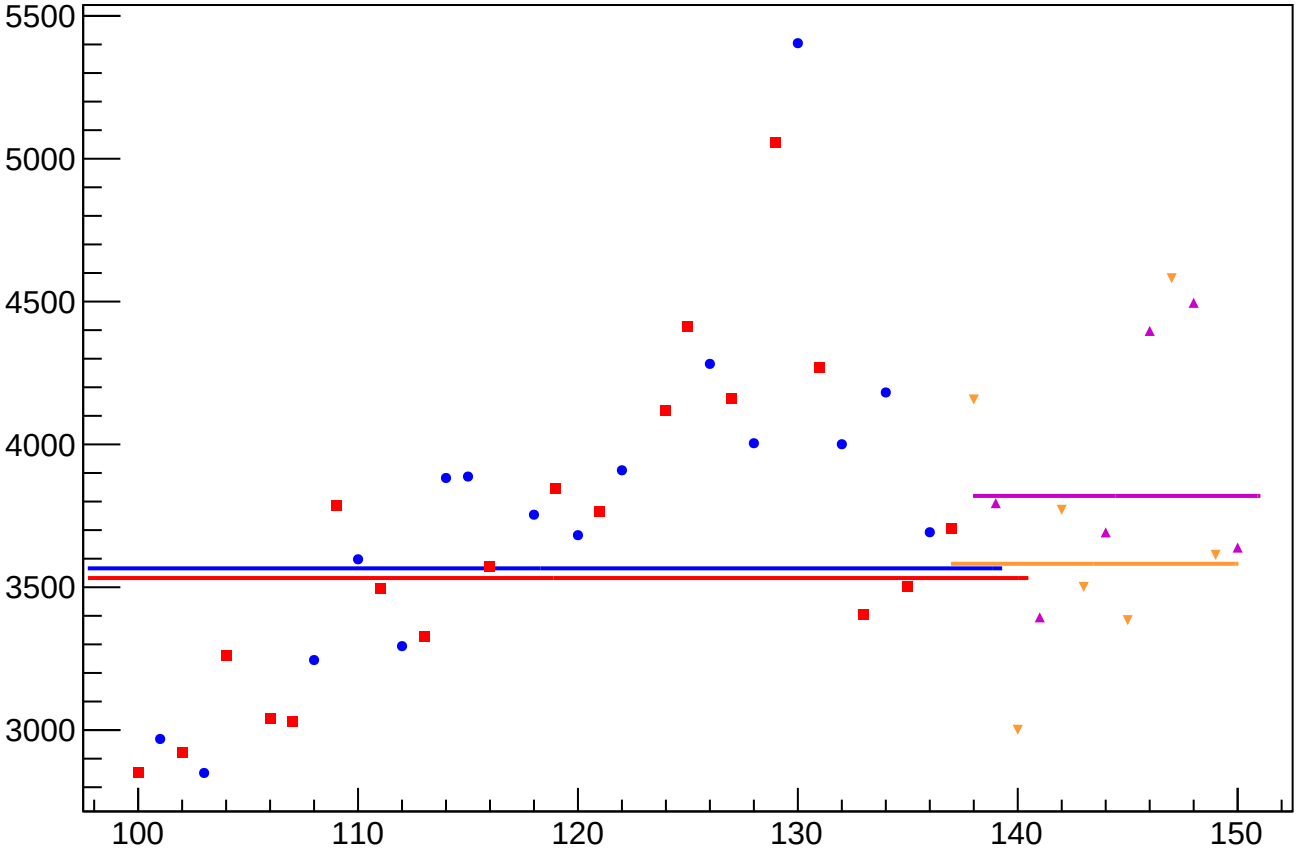
Right: 2.837+/-0.936 $\chi^2$/NDF: 35.0/34

In: 2.335+/-1.051 $\chi^2$/NDF:31.3/21

Out: 1.278+/-1.003 $\chi^2$/NDF:22.7/25

All: 1.782+/-0.726 $\chi^2$/NDF: 54.6/47

# diff_bpm16Y_rms vs Slug, Sign Corrected




Right In: 3566.150+/-0.951 $\chi^2$/NDF: 341105.5/15

Left Out: 3582.191+/-1.110 $\chi^2$/NDF:178747.7/6

Right Out: 3532.189+/-0.922 $\chi^2$/NDF: 278693.0/18

Left In: 3819.656+/-1.190 $\chi^2$/NDF:102453.0/5

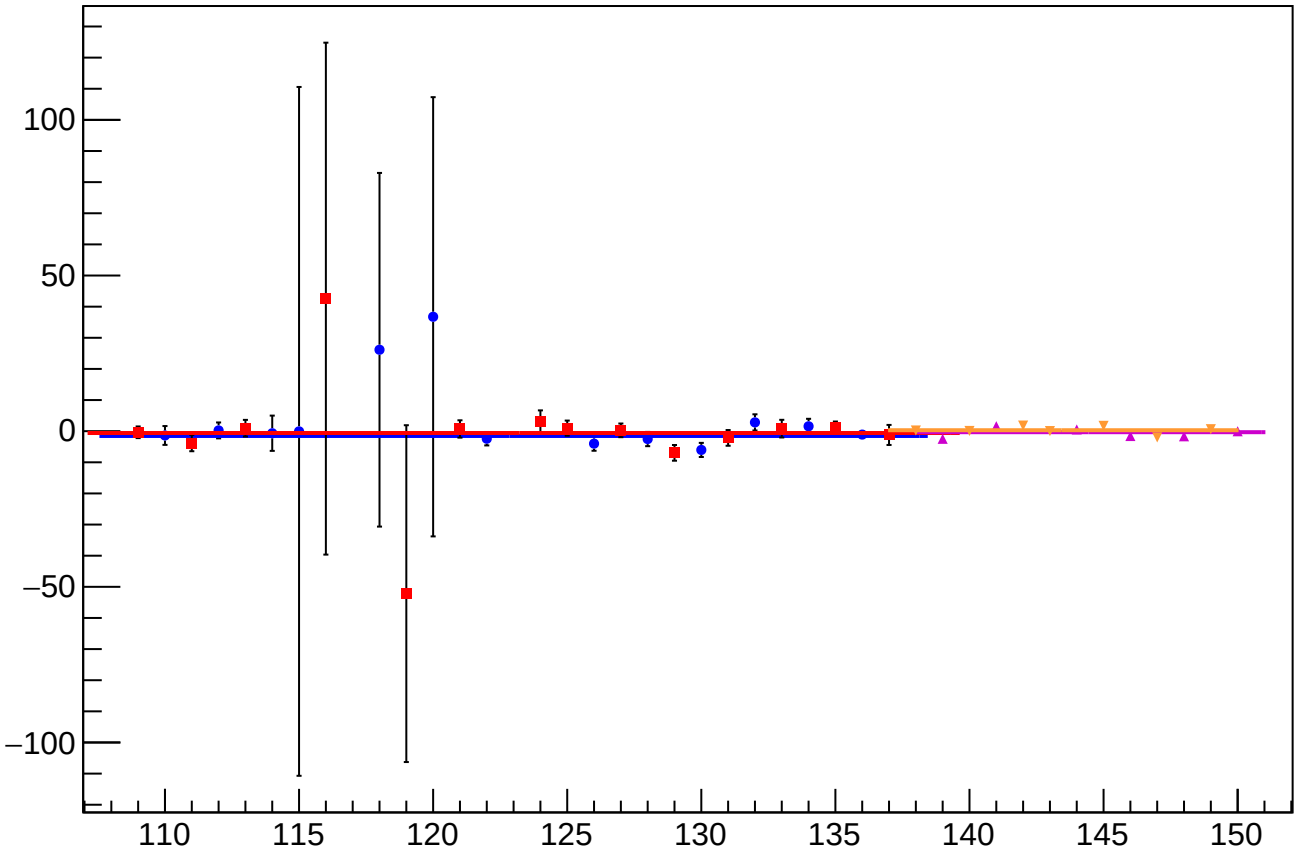
Left: 3692.737+/-0.812 $\chi^2$/NDF: 302499.5/12

Right: 3548.642+/-0.662 $\chi^2$/NDF: 620455.5/34

In: 3665.033+/-0.743 $\chi^2$/NDF:471259.3/21

Out: 3552.604+/-0.709 $\chi^2$/NDF:458640.9/25

All: 3606.222+/-0.513 $\chi^2$/NDF: 941879.5/47




Right In: -1.536+/-0.733 $\chi^2$/NDF: 11.1/12

Left Out: 0.304+/-0.438 $\chi^2$/NDF:6.9/6

Right Out: -0.588+/-0.717 $\chi^2$/NDF: 12.7/13

Left In: -0.325+/-0.447 $\chi^2$/NDF:10.0/5

Left: -0.003+/-0.313 $\chi^2$/NDF: 17.8/12

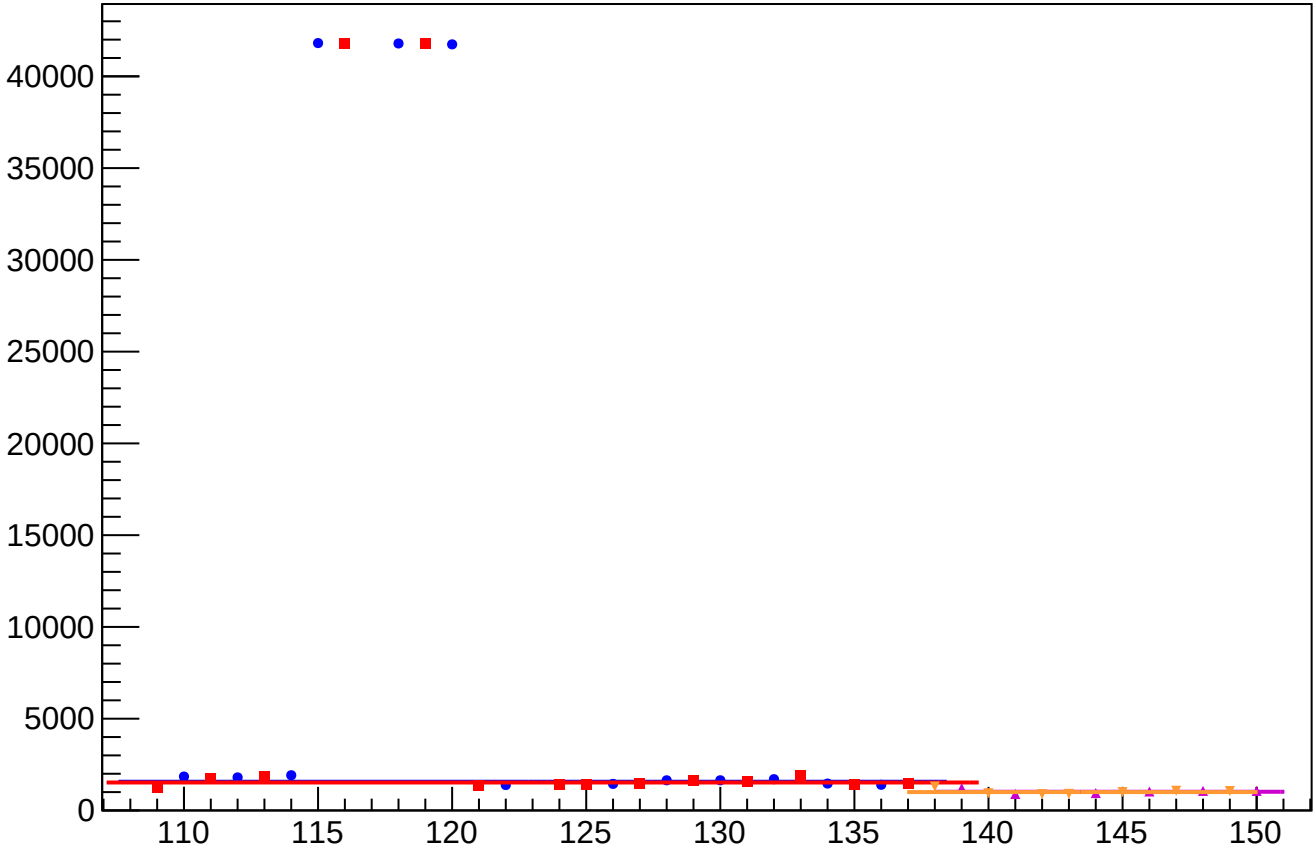
Right: -1.051+/-0.512 $\chi^2$/NDF: 24.6/26

In: -0.654+/-0.382 $\chi^2$/NDF:23.0/18

Out: 0.062+/-0.373 $\chi^2$/NDF:20.7/20

All: -0.288+/-0.267 $\chi^2$/NDF: 45.5/39

# diff_bpm1p02bX_rms vs Slug, Sign Corrected




Right In: 1564.307+/-0.518 $\chi^2$/NDF: 2016990.6/12

Left Out: 1002.156+/-0.309 $\chi^2$/NDF:133841.6/6

Right Out: 1523.678+/-0.507 $\chi^2$/NDF: 1739658.0/13

Left In: 1018.565+/-0.316 $\chi^2$/NDF:93153.2/5

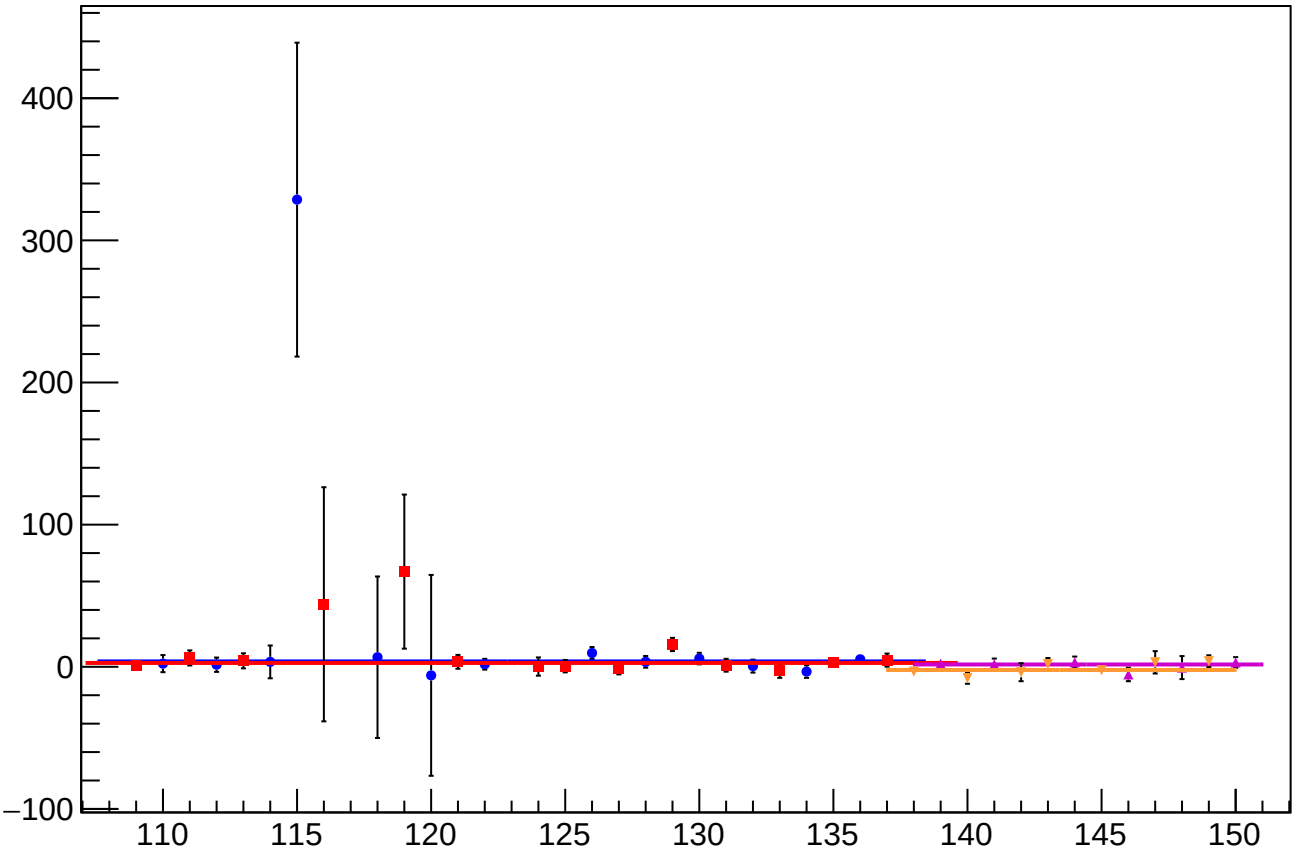
Left: 1010.178+/-0.221 $\chi^2$/NDF: 228370.2/12

Right: 1543.555+/-0.362 $\chi^2$/NDF: 3759789.5/26

In: 1166.762+/-0.270 $\chi^2$/NDF:2918373.3/18

Out: 1143.626+/-0.264 $\chi^2$/NDF:2644386.3/20

All: 1154.939+/-0.189 $\chi^2$/NDF: 5566512.3/39




Right In: 3.777+/-1.248 $\chi^2$/NDF: 15.2/12

Left Out: -2.241+/-1.373 $\chi^2$/NDF:6.1/6

Right Out: 2.709+/-1.211 $\chi^2$/NDF: 13.6/13

Left In: 1.630+/-1.446 $\chi^2$/NDF:2.6/5

Left: -0.406+/-0.996 $\chi^2$/NDF: 12.4/12

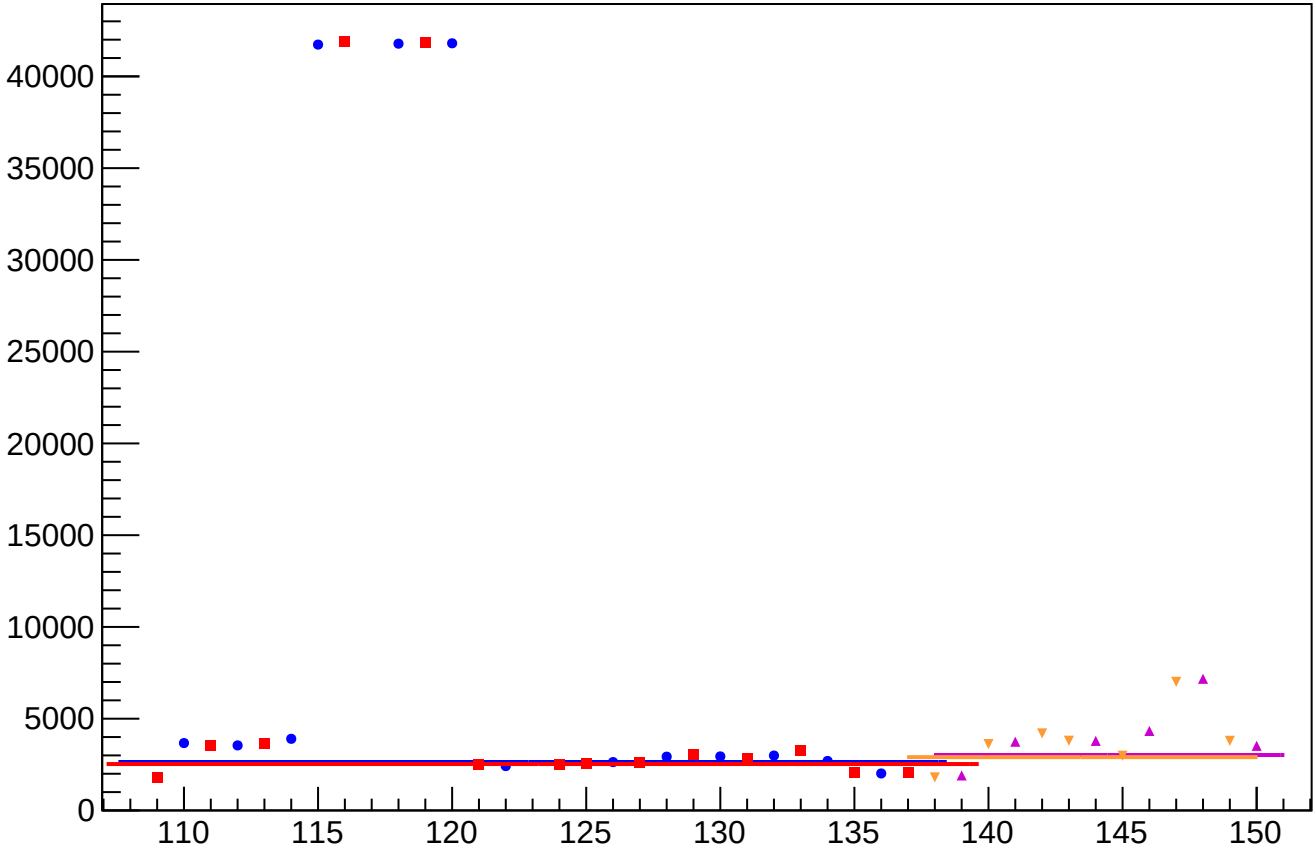
Right: 3.227+/-0.869 $\chi^2$/NDF: 29.2/26

In: 2.860+/-0.945 $\chi^2$/NDF:19.0/18

Out: 0.543+/-0.908 $\chi^2$/NDF:27.0/20

All: 1.655+/-0.655 $\chi^2$/NDF: 49.1/39

# diff_bpm1p02bY_rms vs Slug, Sign Corrected




Right In: 2639.943+/-0.883 $\chi^2$/NDF: 2173395.1/12

Left Out: 2905.137+/-0.971 $\chi^2$/NDF:1429234.7/6

Right Out: 2529.018+/-0.856 $\chi^2$/NDF: 1949928.1/13

Left In: 3021.015+/-1.023 $\chi^2$/NDF:1405514.0/5

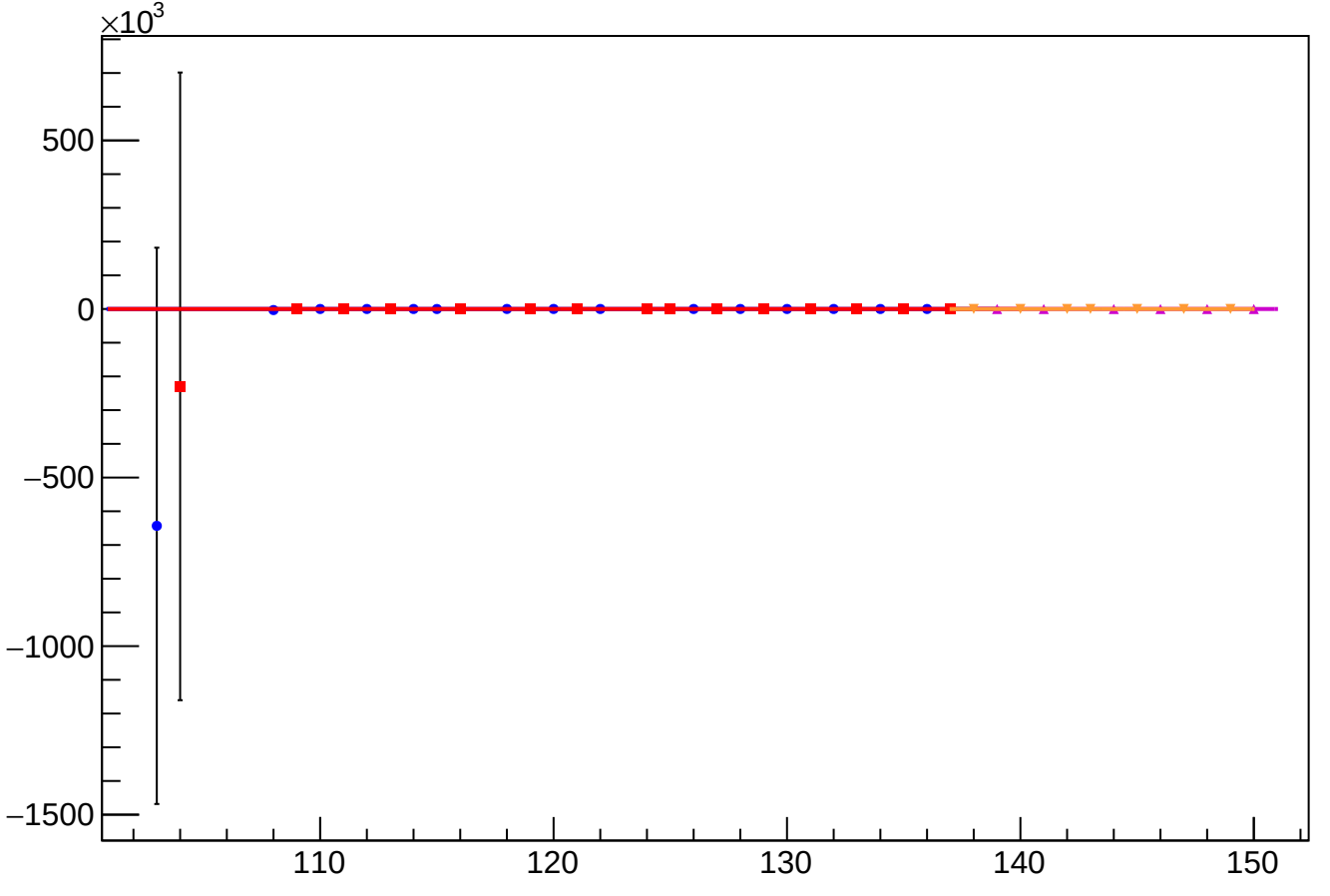
Left: 2960.049+/-0.704 $\chi^2$/NDF: 2841502.2/12

Right: 2582.794+/-0.615 $\chi^2$/NDF: 4131459.2/26

In: 2802.616+/-0.668 $\chi^2$/NDF:3658468.8/18

Out: 2693.614+/-0.642 $\chi^2$/NDF:3463601.0/20

All: 2745.943+/-0.463 $\chi^2$/NDF: 7135903.5/39




Right In: -1.215+/-1.125 $\chi^2$/NDF: 18.8/14

Left Out: -1.156+/-0.655 $\chi^2$/NDF:15.3/6

Right Out: 2.670+/-1.211 $\chi^2$/NDF: 14.4/14

Left In: 0.836+/-0.690 $\chi^2$/NDF:1.2/5

Left: -0.211+/-0.475 $\chi^2$/NDF: 20.9/12

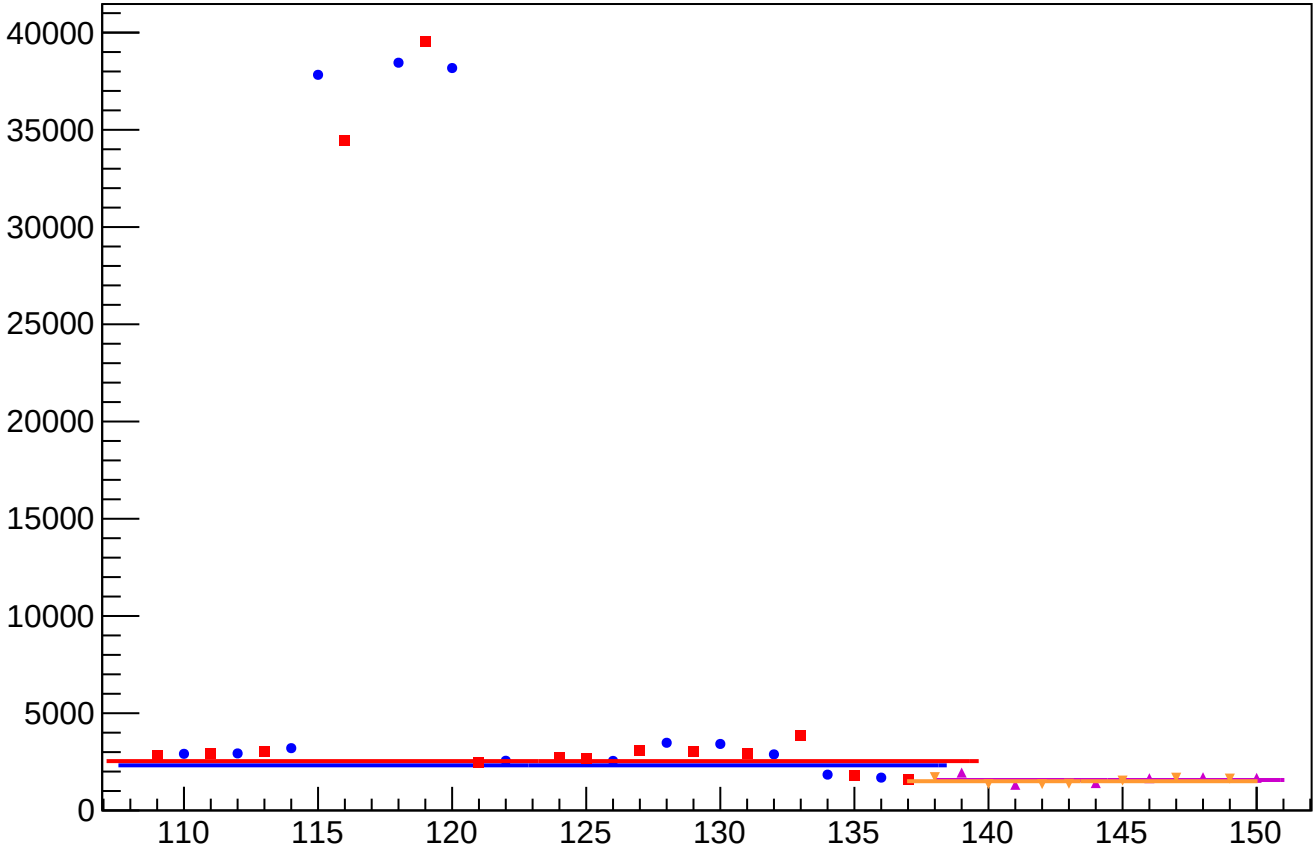
Right: 0.585+/-0.824 $\chi^2$/NDF: 38.7/29

In: 0.276+/-0.588 $\chi^2$/NDF:22.3/20

Out: -0.290+/-0.576 $\chi^2$/NDF:37.5/21

All: -0.013+/-0.412 $\chi^2$/NDF: 60.3/42

# diff_bpm1p03aX_rms vs Slug, Sign Corrected




Right In: 2320.446+/-0.796 $\chi^2$/NDF: 2461445.1/12

Left Out: 1503.819+/-0.463 $\chi^2$/NDF:96693.1/6

Right Out: 2537.615+/-0.856 $\chi^2$/NDF: 2038153.2/13

Left In: 1566.154+/-0.488 $\chi^2$/NDF:172569.6/5

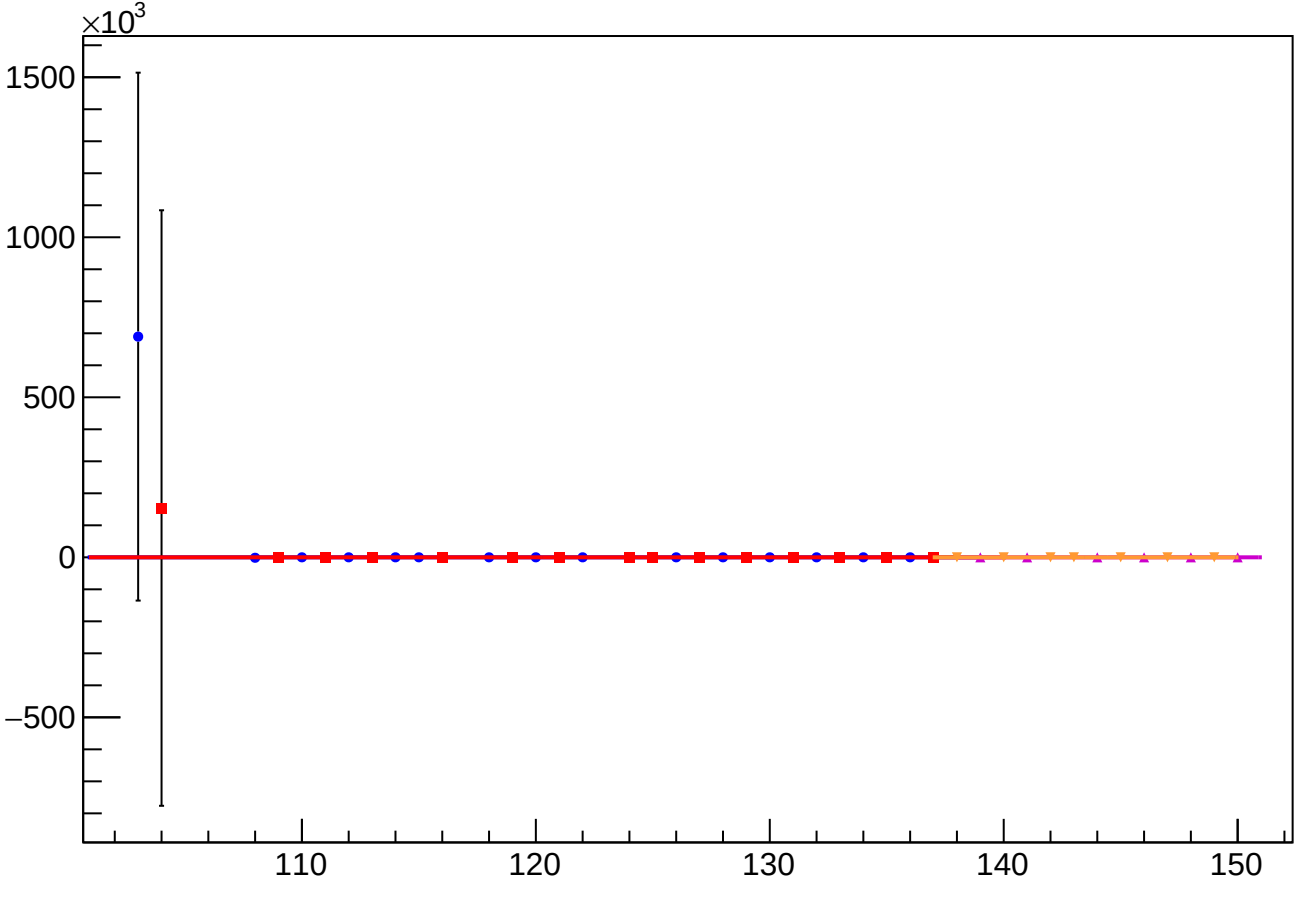
Left: 1533.369+/-0.336 $\chi^2$/NDF: 277842.9/12

Right: 2421.061+/-0.583 $\chi^2$/NDF: 4534110.8/26

In: 1772.350+/-0.416 $\chi^2$/NDF:3287009.9/18

Out: 1737.904+/-0.408 $\chi^2$/NDF:3262085.5/20

All: 1754.772+/-0.291 $\chi^2$/NDF: 6552594.0/39




Right In: 1.708+/-1.076 $\chi^2$/NDF: 5.0/14

Left Out: -0.889+/-0.927 $\chi^2$/NDF:9.0/6

Right Out: 1.893+/-1.052 $\chi^2$/NDF: 15.3/14

Left In: -0.223+/-0.881 $\chi^2$/NDF:2.6/5

Left: -0.540+/-0.639 $\chi^2$/NDF: 11.9/12

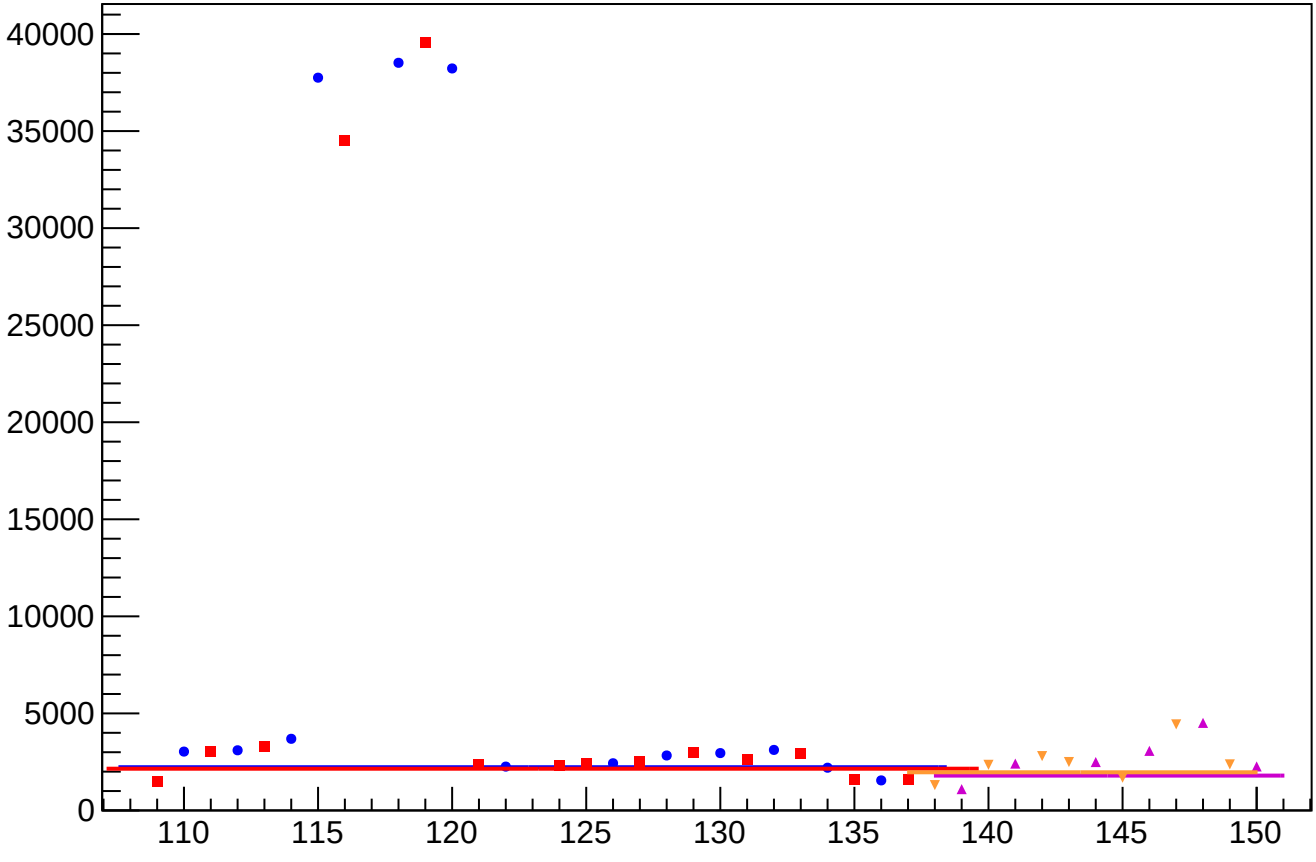
Right: 1.803+/-0.752 $\chi^2$/NDF: 20.3/29

In: 0.552+/-0.682 $\chi^2$/NDF:9.5/20

Out: 0.327+/-0.695 $\chi^2$/NDF:28.3/21

All: 0.441+/-0.487 $\chi^2$/NDF: 37.8/42

# diff_bpm1p03aY_rms vs Slug, Sign Corrected




Right In: 2226.944+/-0.761 $\chi^2$/NDF: 2522286.5/12

Left Out: 1966.593+/-0.655 $\chi^2$/NDF:1117857.1/6

Right Out: 2150.841+/-0.744 $\chi^2$/NDF: 2231322.0/13

Left In: 1795.725+/-0.623 $\chi^2$/NDF:1865388.5/5

Left: 1876.865+/-0.452 $\chi^2$/NDF: 3018946.0/12

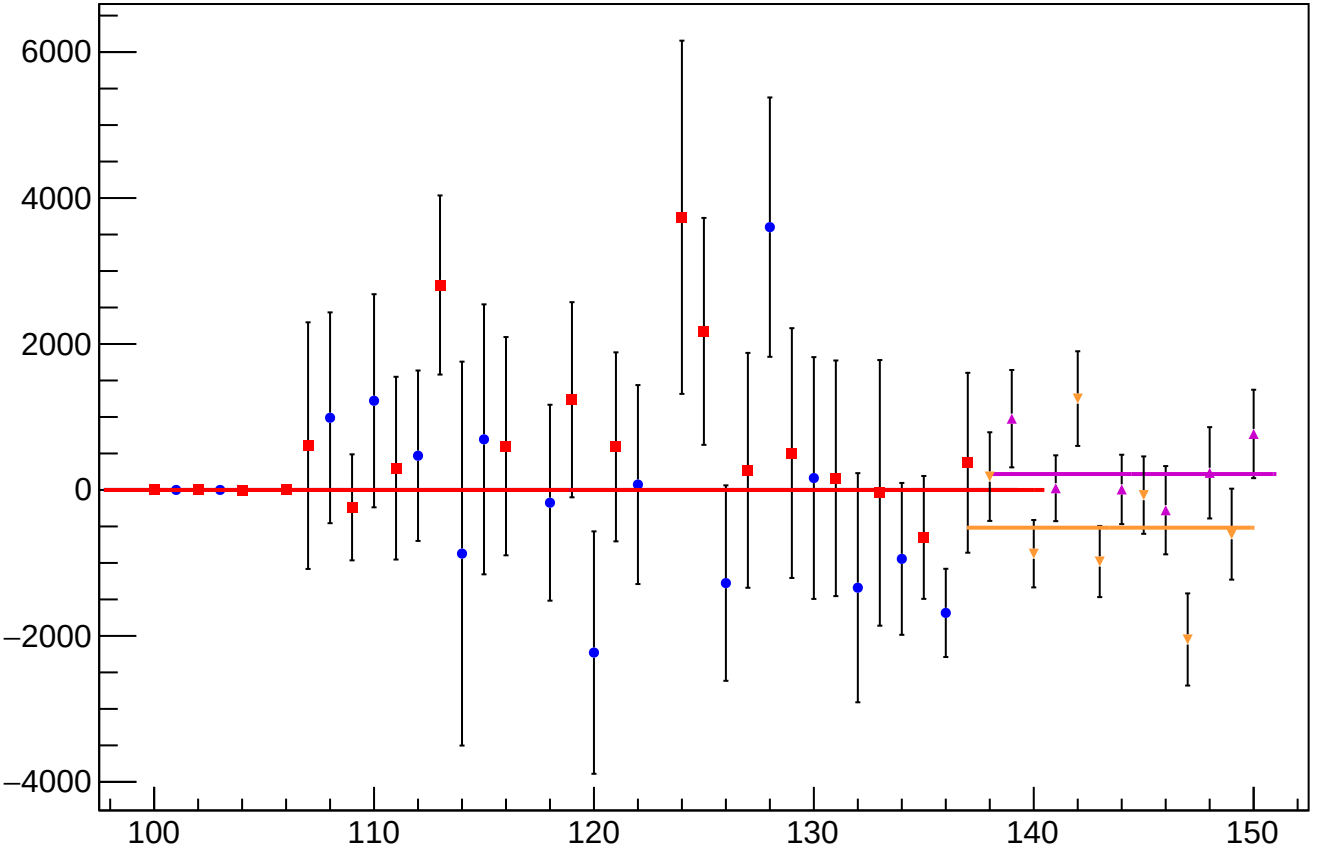
Right: 2188.011+/-0.532 $\chi^2$/NDF: 4758723.2/26

In: 1968.787+/-0.482 $\chi^2$/NDF:4579841.5/18

Out: 2047.127+/-0.492 $\chi^2$/NDF:3383730.1/20

All: 2007.193+/-0.344 $\chi^2$/NDF: 7976512.8/39

# diff_cav4bX_mean vs Slug, Sign Corrected




Right In: 0.255+/-0.356 $\chi^2$/NDF: 17.7/15

Left Out: -517.036+/-210.243 $\chi^2$/NDF:16.9/6

Right Out: -0.096+/-0.328 $\chi^2$/NDF: 15.4/18

Left In: 218.126+/-225.895 $\chi^2$/NDF:3.2/5

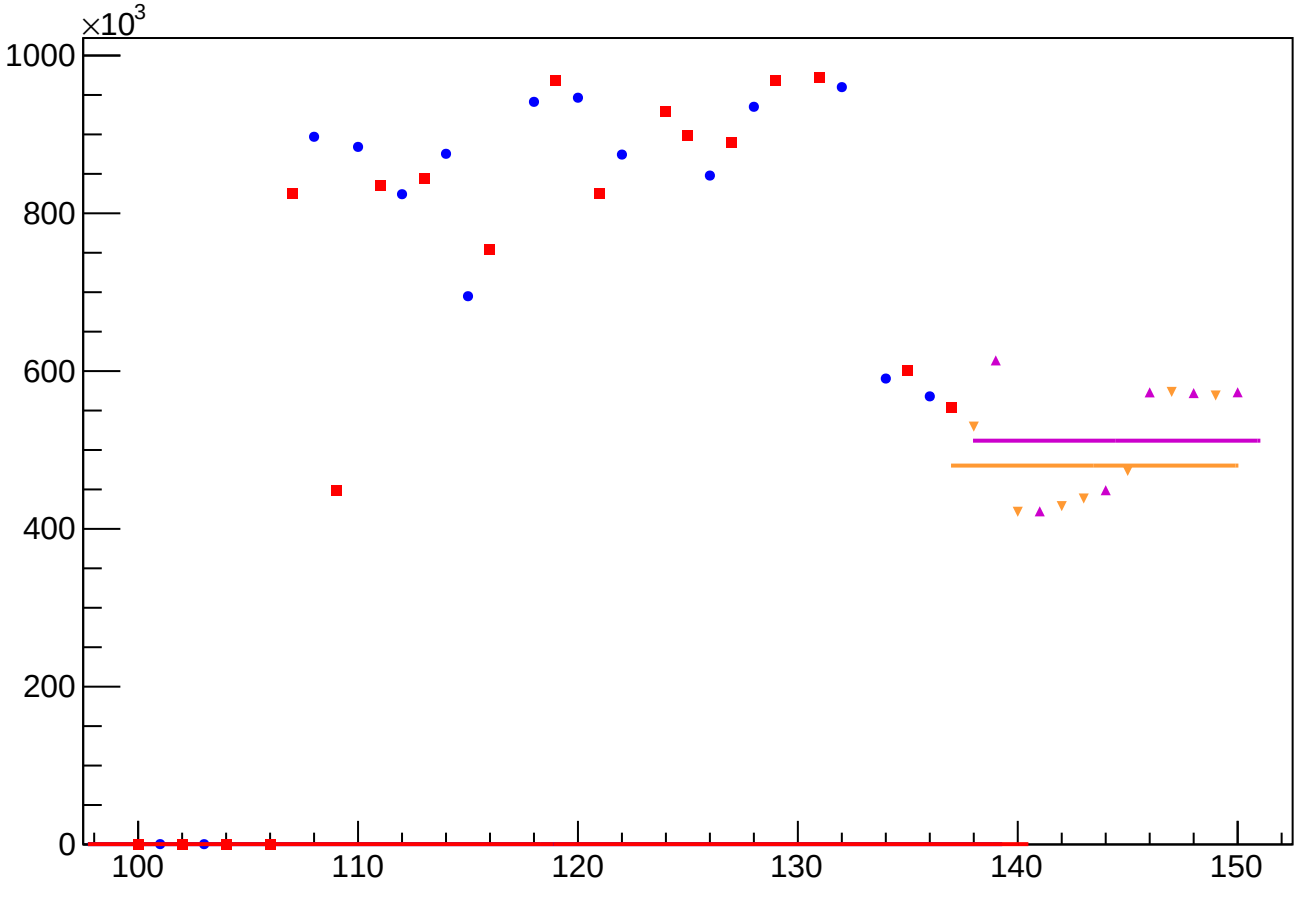
Left: -175.805+/-153.901 $\chi^2$/NDF: 25.7/12

Right: 0.065+/-0.241 $\chi^2$/NDF: 33.7/34

In: 0.256+/-0.356 $\chi^2$/NDF:21.8/21

Out: -0.097+/-0.328 $\chi^2$/NDF:38.3/25

All: 0.065+/-0.241 $\chi^2$/NDF: 60.7/47




Right In: 398.881+/-0.251 $\chi^2$/NDF: 8491830.9/14

Left Out: 480233.369+/-148.664 $\chi^2$/NDF:157318.3/6

Right Out: 393.240+/-0.232 $\chi^2$/NDF: 7648578.2/17

Left In: 511804.017+/-159.732 $\chi^2$/NDF:219816.8/5

Left: 494887.116+/-108.824 $\chi^2$/NDF: 398067.5/12

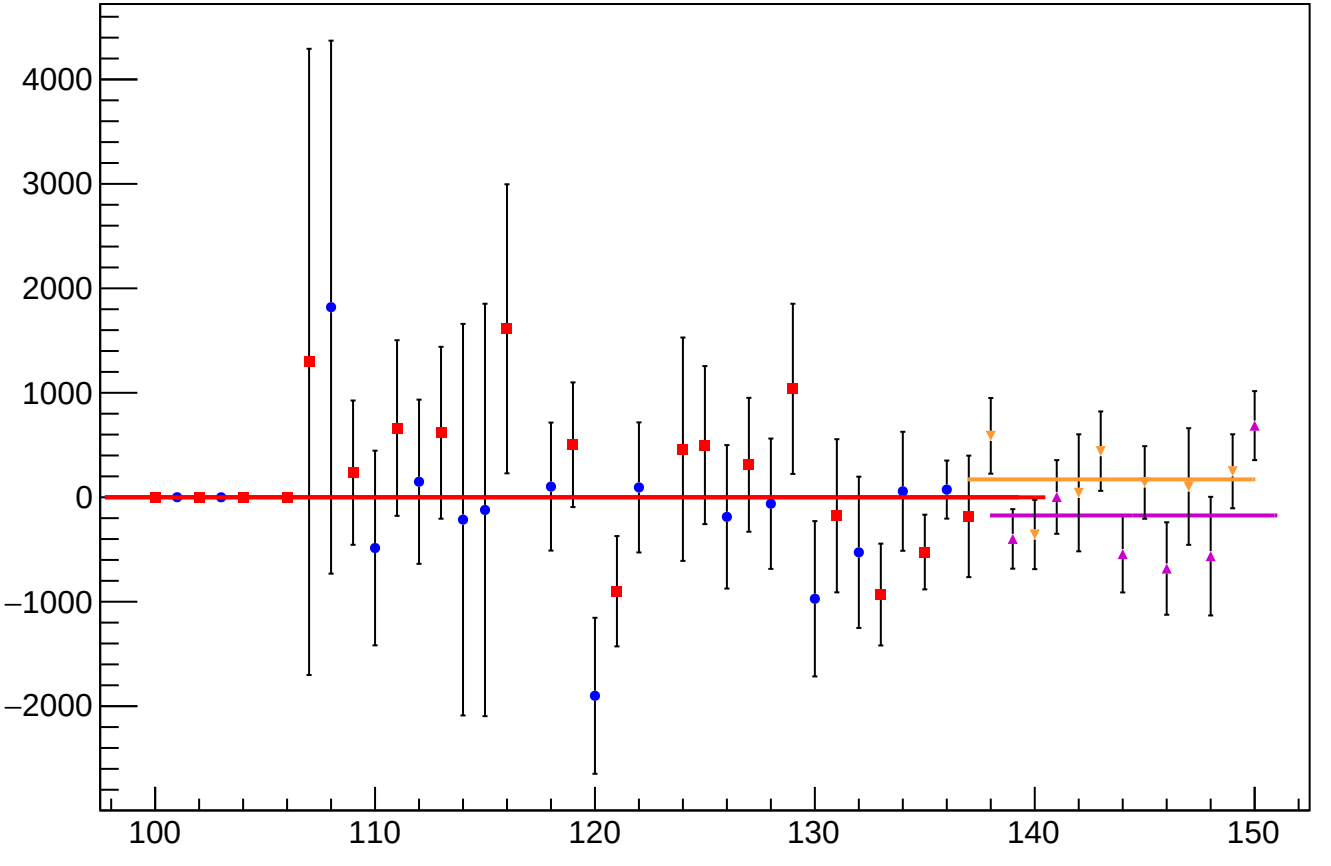
Right: 395.831+/-0.170 $\chi^2$/NDF: 16140681.1/32

In: 400.149+/-0.251 $\chi^2$/NDF:18962123.9/20

Out: 394.406+/-0.232 $\chi^2$/NDF:18223771.3/24

All: 397.044+/-0.170 $\chi^2$/NDF: 37186177.2/45

# diff_cav4bY_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.347 $\chi^2$/NDF: 10.5/15

Left Out: 171.032+/-146.999 $\chi^2$/NDF:4.5/6

Right Out: -0.599+/-0.324 $\chi^2$/NDF: 15.0/18

Left In: -174.195+/-148.887 $\chi^2$/NDF:10.4/5

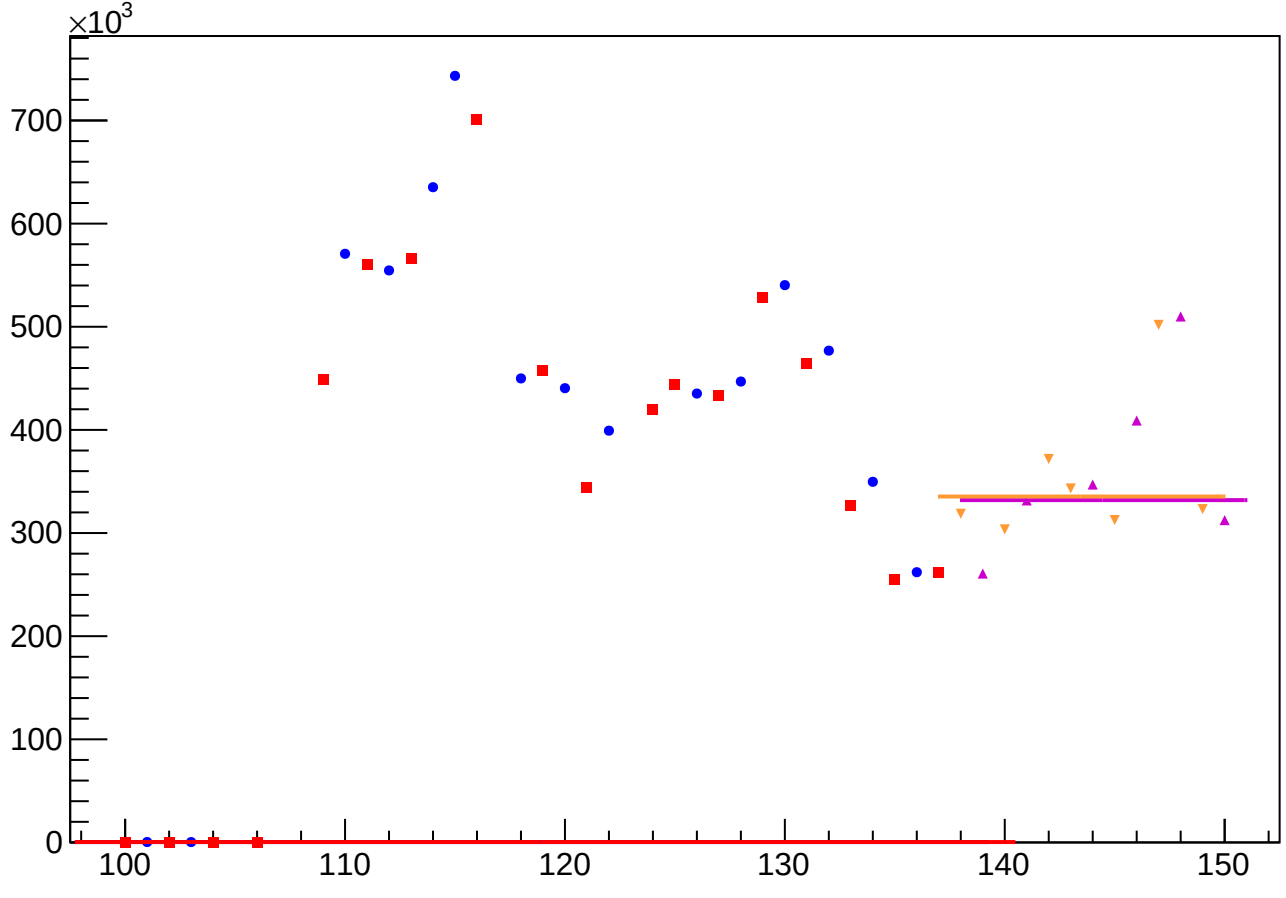
Left: 0.621+/-104.605 $\chi^2$/NDF: 17.6/12

Right: -0.330+/-0.237 $\chi^2$/NDF: 27.0/34

In: -0.021+/-0.347 $\chi^2$/NDF:22.3/21

Out: -0.598+/-0.324 $\chi^2$/NDF:20.8/25

All: -0.330+/-0.237 $\chi^2$/NDF: 44.6/47




Right In: 390.276+/-0.245 $\chi^2$/NDF: 11132240.7/14

Left Out: 335419.400+/-103.944 $\chi^2$/NDF:220761.9/6

Right Out: 387.984+/-0.229 $\chi^2$/NDF: 11074302.3/17

Left In: 331920.015+/-105.297 $\chi^2$/NDF:392292.6/5

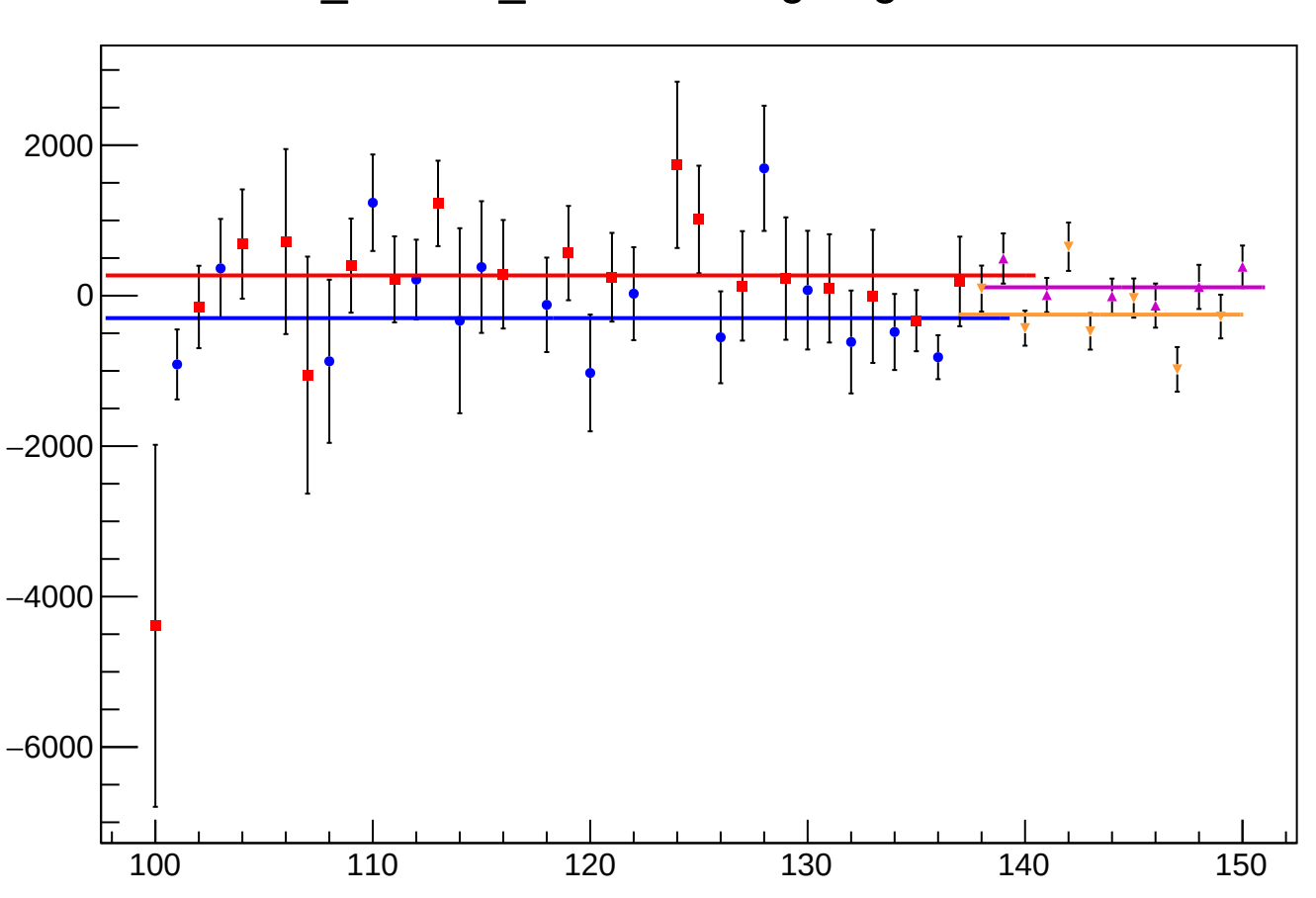
Left: 333692.331+/-73.973 $\chi^2$/NDF: 613613.8/12

Right: 389.050+/-0.167 $\chi^2$/NDF: 22206589.6/32

In: 392.077+/-0.245 $\chi^2$/NDF:21437725.4/20

Out: 389.610+/-0.229 $\chi^2$/NDF:21684015.0/24

All: 390.758+/-0.167 $\chi^2$/NDF: 43121794.4/45




Right In: -298.263+/-147.367 $\chi^2$/NDF: 21.2/15

Left Out: -251.874+/-103.175 $\chi^2$/NDF:17.4/6

Right Out: 268.892+/-156.582 $\chi^2$/NDF: 13.9/18

Left In: 111.015+/-110.275 $\chi^2$/NDF:3.4/5

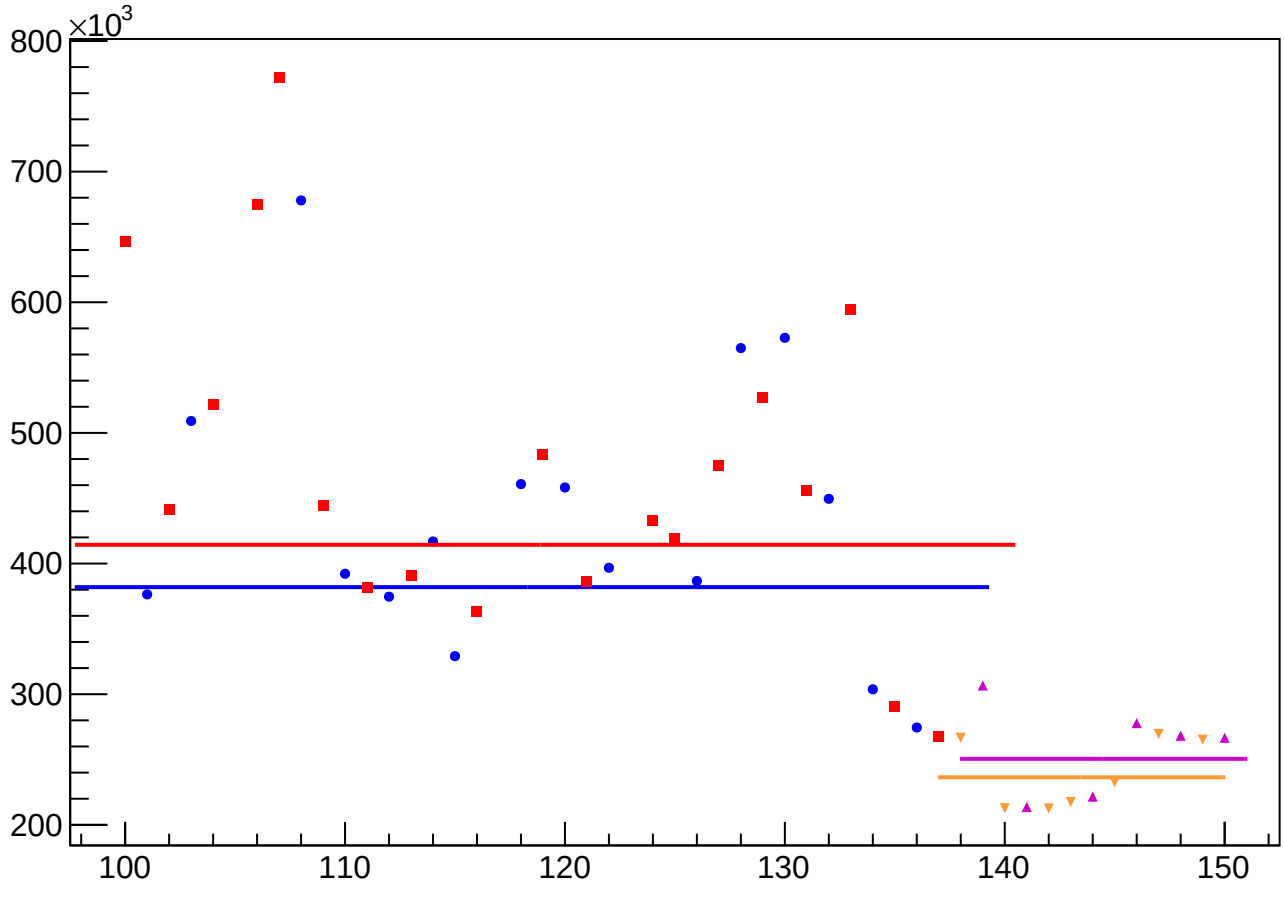
Left: -82.486+/-75.341 $\chi^2$/NDF: 26.6/12

Right: -31.865+/-107.314 $\chi^2$/NDF: 42.0/34

In: -35.898+/-88.292 $\chi^2$/NDF:29.5/21

Out: -94.219+/-86.154 $\chi^2$/NDF:39.0/25

All: -65.773+/-61.662 $\chi^2$/NDF: 68.7/47




Right In: 381960.471+/-104.223 $\chi^2$/NDF: 836441.6/15

Left Out: 236400.753+/-72.956 $\chi^2$/NDF:108693.0/6

Right Out: 414378.043+/-110.748 $\chi^2$/NDF: 760082.5/18

Left In: 250535.892+/-77.976 $\chi^2$/NDF:170321.0/5

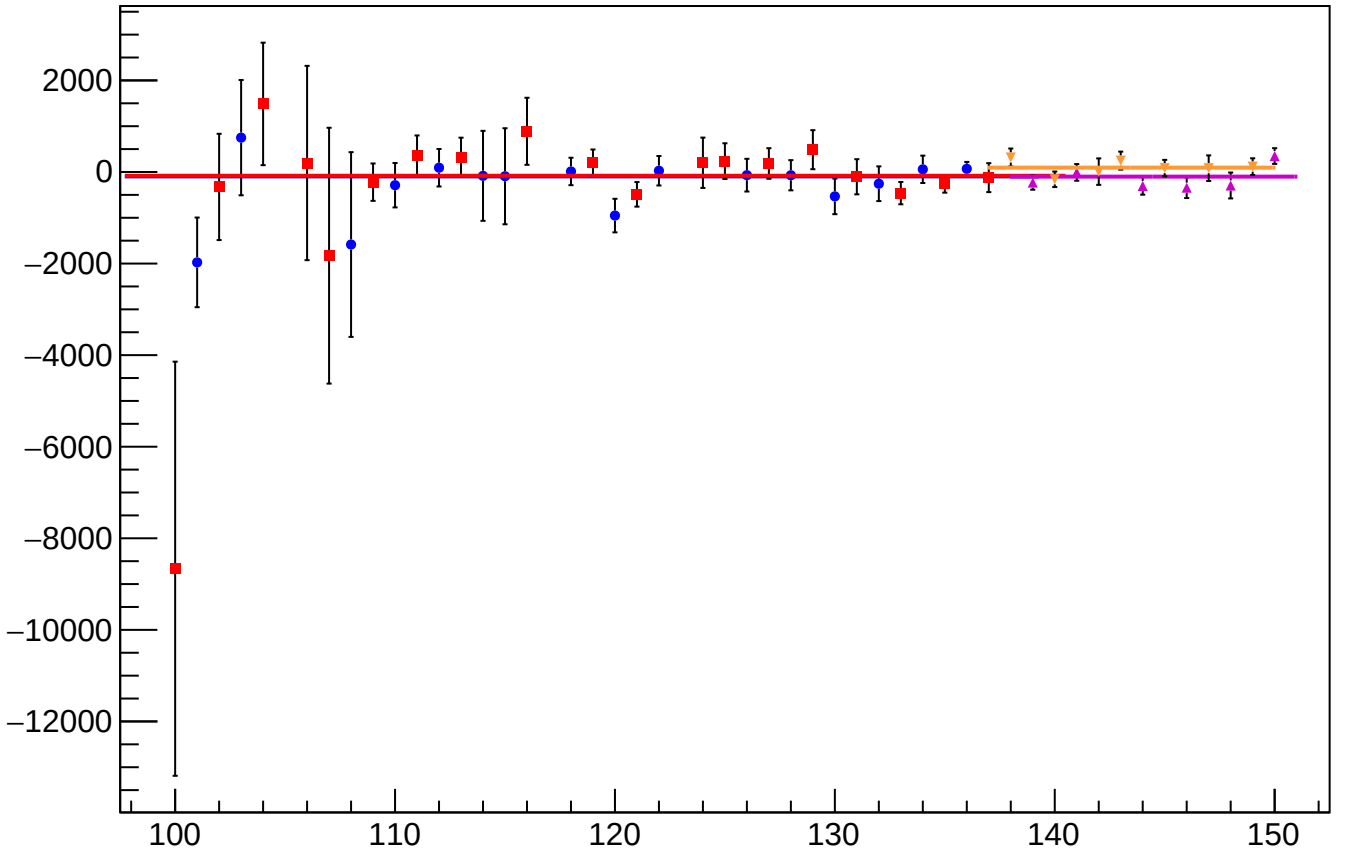
Left: 242998.692+/-53.274 $\chi^2$/NDF: 296536.0/12

Right: 397186.164+/-75.899 $\chi^2$/NDF: 1641963.2/34

In: 297700.620+/-62.436 $\chi^2$/NDF:2026220.2/21

Out: 290262.017+/-60.925 $\chi^2$/NDF:2669793.5/25

All: 293890.205+/-43.605 $\chi^2$/NDF: 4703284.




Right In: -95.850+/-88.267 $\chi^2$/NDF: 13.7/15

Left Out: 95.023+/-76.173 $\chi^2$/NDF:4.2/6

Right Out: -82.750+/-87.316 $\chi^2$/NDF: 19.1/18

Left In: -101.347+/-77.913 $\chi^2$/NDF:10.5/5

Left: -0.944+/-54.467 $\chi^2$/NDF: 18.0/12

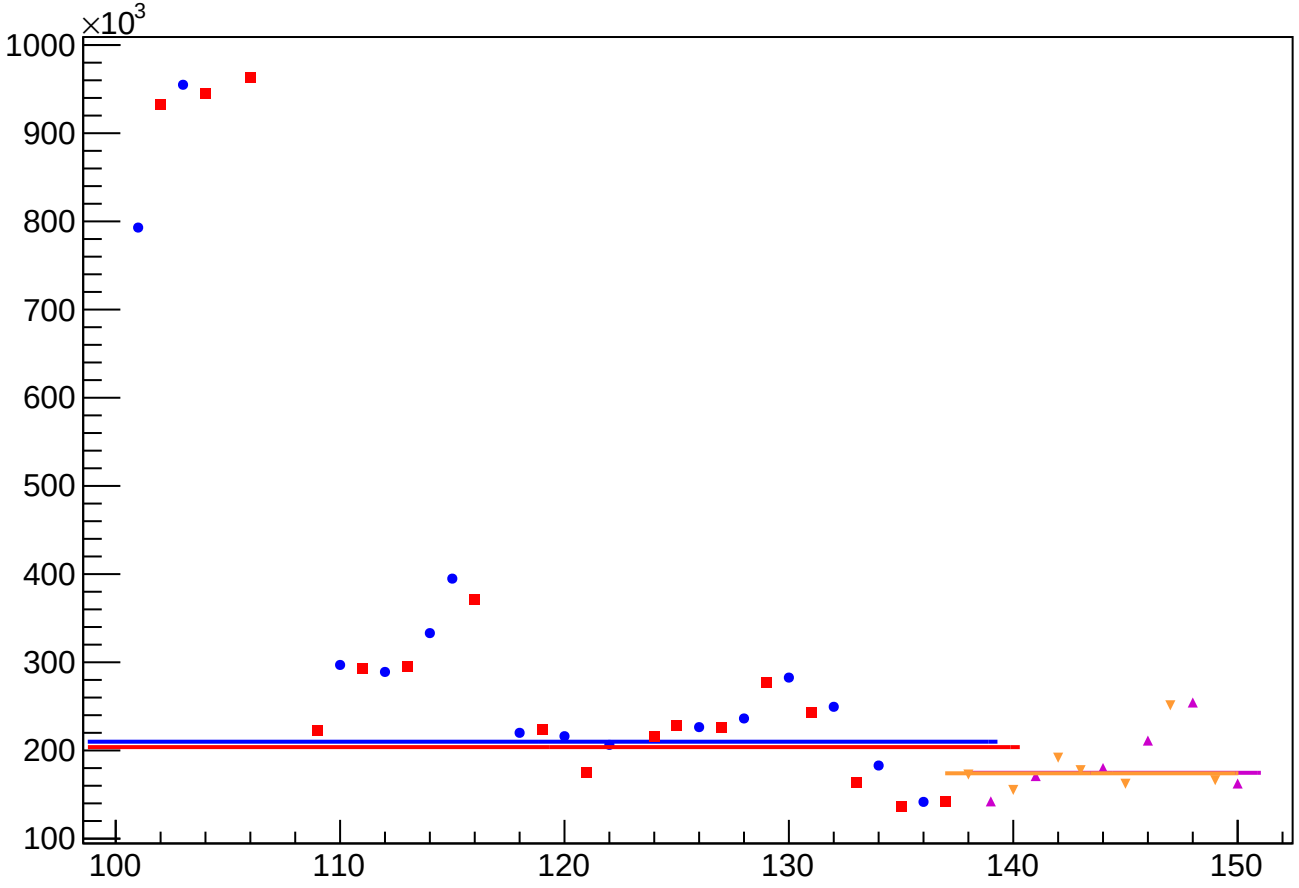
Right: -89.229+/-62.075 $\chi^2$/NDF: 32.8/34

In: -98.940+/-58.412 $\chi^2$/NDF:24.2/21

Out: 18.197+/-57.400 $\chi^2$/NDF:25.7/25

All: -39.348+/-40.941 $\chi^2$/NDF: 52.0/47

# diff_cav4cY_rms vs Slug, Sign Corrected




Right In: 209929.195+/-62.523 $\chi^2$/NDF: 1959897.2/14

Left Out: 174106.337+/-53.863 $\chi^2$/NDF:198024.3/6

Right Out: 203793.382+/-61.895 $\chi^2$/NDF: 2070478.1/16

Left In: 174672.446+/-55.093 $\chi^2$/NDF:309907.4/5

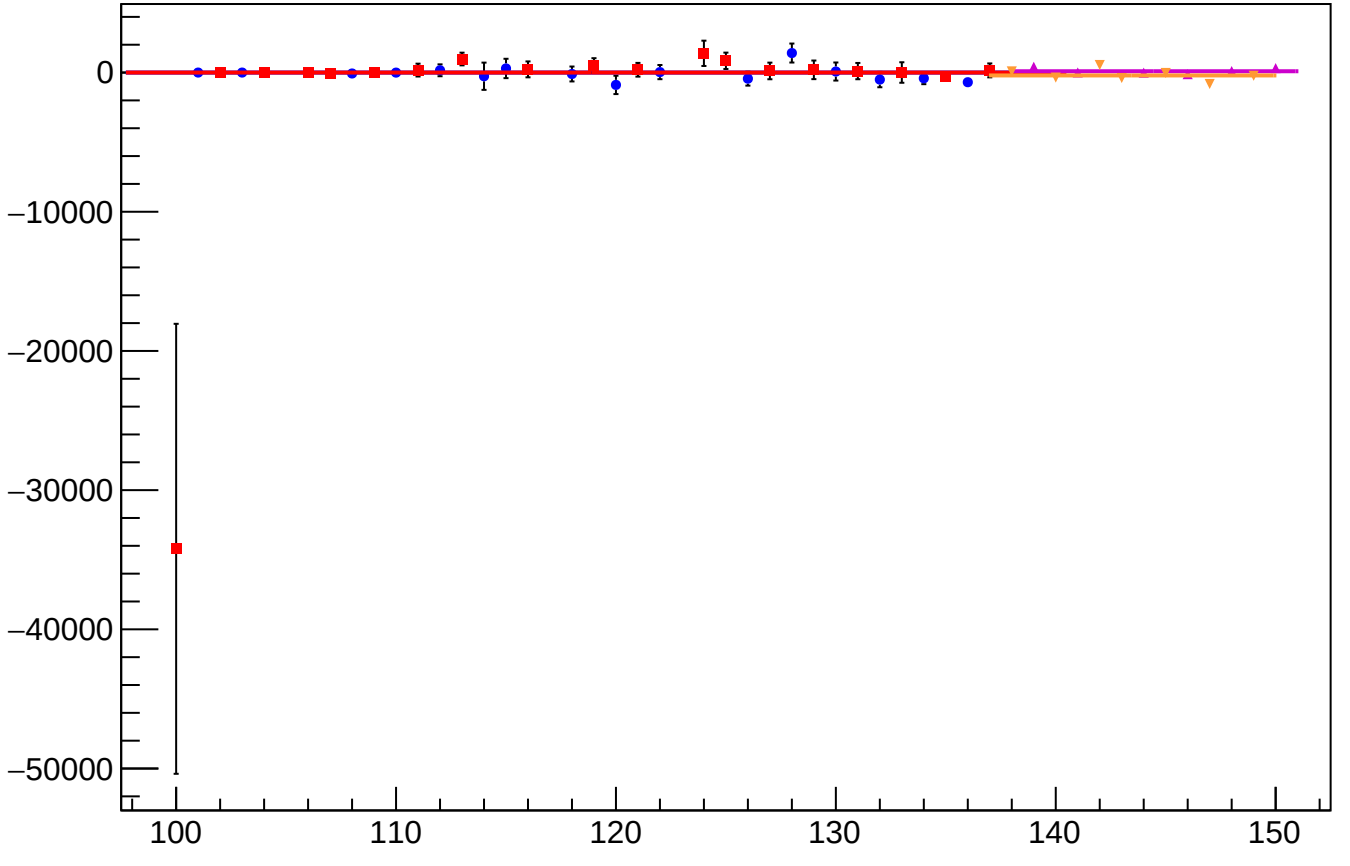
Left: 174382.999+/-38.514 $\chi^2$/NDF: 507985.7/12

Right: 206830.314+/-43.987 $\chi^2$/NDF: 4035239.4/31

In: 190082.546+/-41.335 $\chi^2$/NDF:2448804.8/20

Out: 186899.820+/-40.632 $\chi^2$/NDF:2399415.2/23

All: 188463.867+/-28.976 $\chi^2$/NDF: 4851235.




Right In: -0.035+/-0.172 $\chi^2$/NDF: 18.1/15

Left Out: -207.063+/-86.088 $\chi^2$/NDF:17.4/6

Right Out: 0.355+/-0.160 $\chi^2$/NDF: 16.5/18

Left In: 94.541+/-92.185 $\chi^2$/NDF:3.5/5

Left: -66.564+/-62.919 $\chi^2$/NDF: 26.6/12

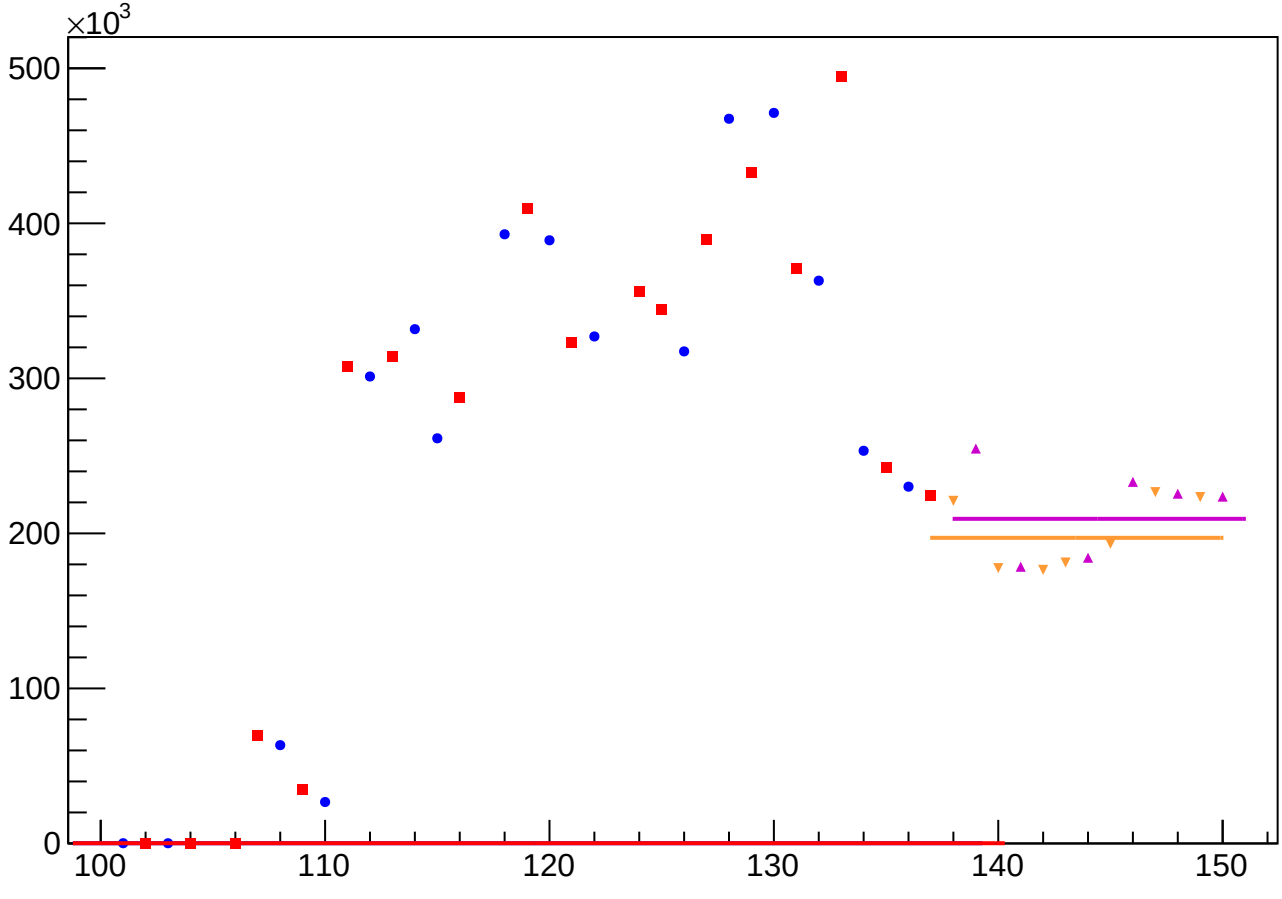
Right: 0.174+/-0.117 $\chi^2$/NDF: 37.4/34

In: -0.035+/-0.172 $\chi^2$/NDF:22.7/21

Out: 0.354+/-0.160 $\chi^2$/NDF:39.7/25

All: 0.174+/-0.117 $\chi^2$/NDF: 65.1/47

# diff_cav4dX_rms vs Slug, Sign Corrected




Right In: 149.092+/-0.122 $\chi^2$/NDF: 11301940.9/15

Left Out: 197150.439+/-60.873 $\chi^2$/NDF:114178.7/6

Right Out: 149.379+/-0.113 $\chi^2$/NDF: 11288711.4/17

Left In: 209399.514+/-65.185 $\chi^2$/NDF:173939.5/5

Left: 202856.519+/-44.490 $\chi^2$/NDF: 306980.2/12

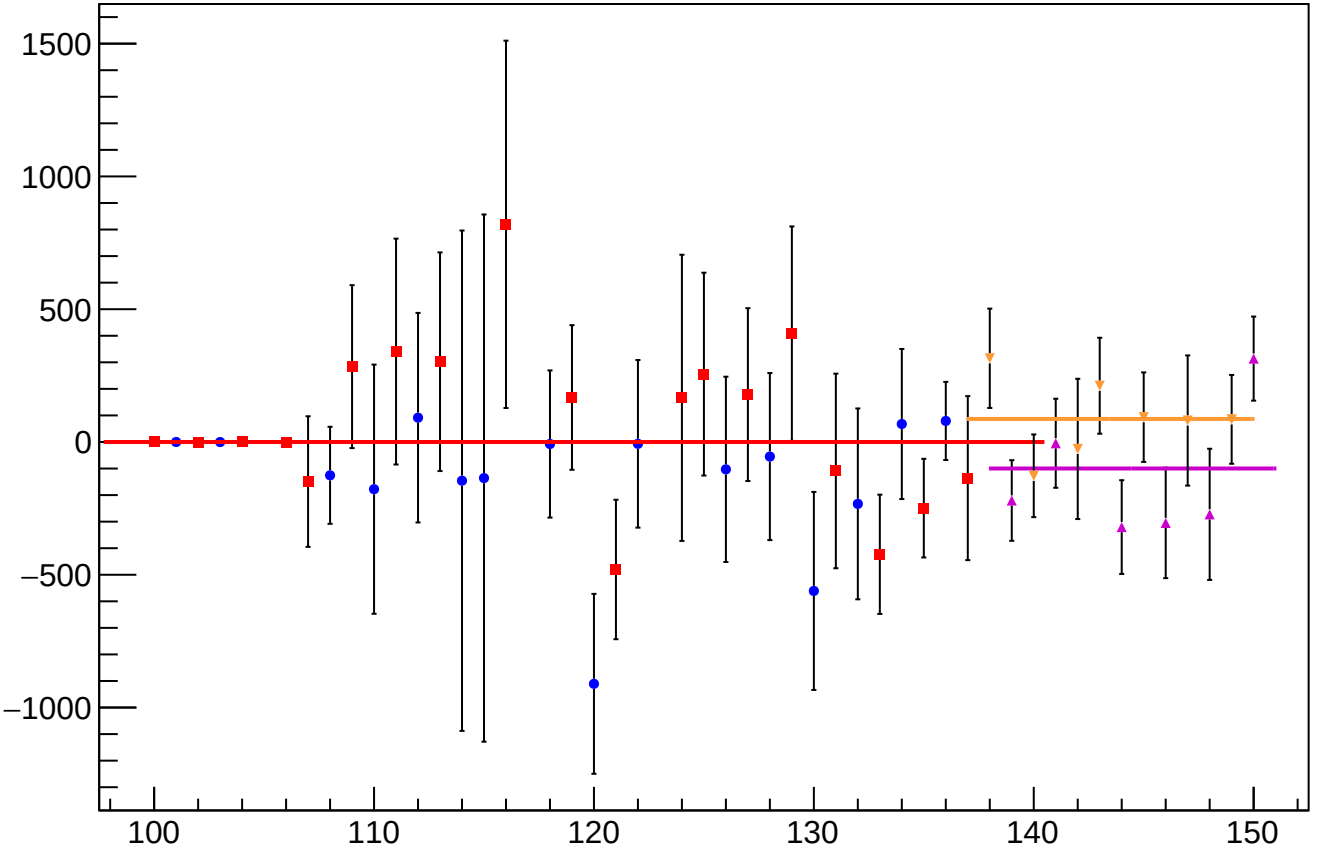
Right: 149.246+/-0.083 $\chi^2$/NDF: 22590655.3/33

In: 149.823+/-0.122 $\chi^2$/NDF:21780640.5/21

Out: 150.060+/-0.113 $\chi^2$/NDF:21876131.6/24

All: 149.950+/-0.083 $\chi^2$/NDF: 43656774.1/46

# diff_cav4dY_mean vs Slug, Sign Corrected




Right In: -0.068+/-0.177 $\chi^2$/NDF: 11.2/15

Left Out: 86.743+/-70.278 $\chi^2$/NDF:4.0/6

Right Out: -0.126+/-0.166 $\chi^2$/NDF: 15.2/18

Left In: -99.802+/-72.450 $\chi^2$/NDF:10.8/5

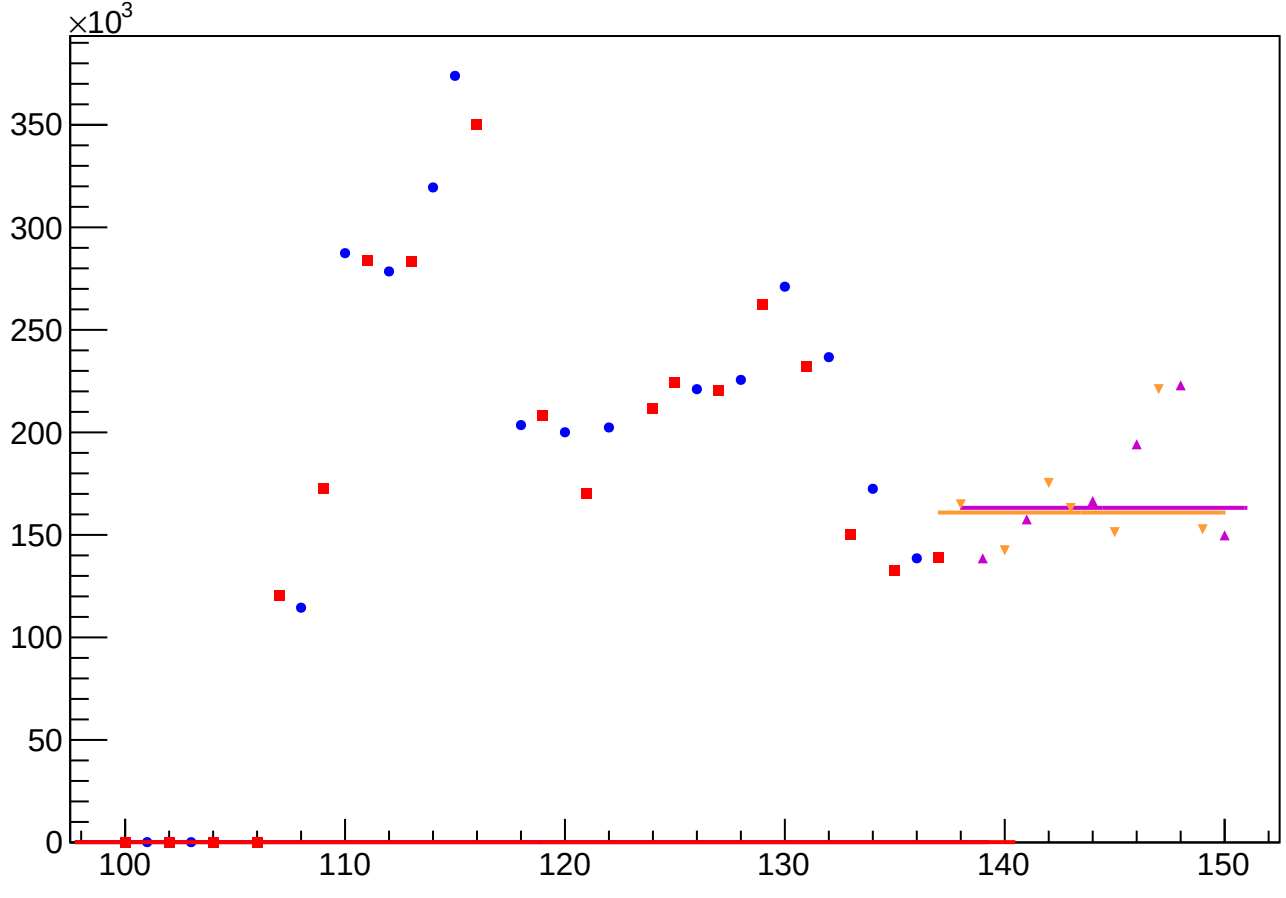
Left: -3.692+/-50.445 $\chi^2$/NDF: 18.3/12

Right: -0.099+/-0.121 $\chi^2$/NDF: 26.5/34

In: -0.069+/-0.177 $\chi^2$/NDF:23.9/21

Out: -0.126+/-0.166 $\chi^2$/NDF:20.8/25

All: -0.099+/-0.121 $\chi^2$/NDF: 44.8/47




Right In: 153.460+/-0.125 $\chi^2$/NDF: 11904914.7/15

Left Out: 160902.285+/-49.694 $\chi^2$/NDF:166953.3/6

Right Out: 156.158+/-0.118 $\chi^2$/NDF: 11330885.6/18

Left In: 163204.670+/-51.230 $\chi^2$/NDF:231397.9/5

Left: 162018.459+/-35.670 $\chi^2$/NDF: 399391.9/12

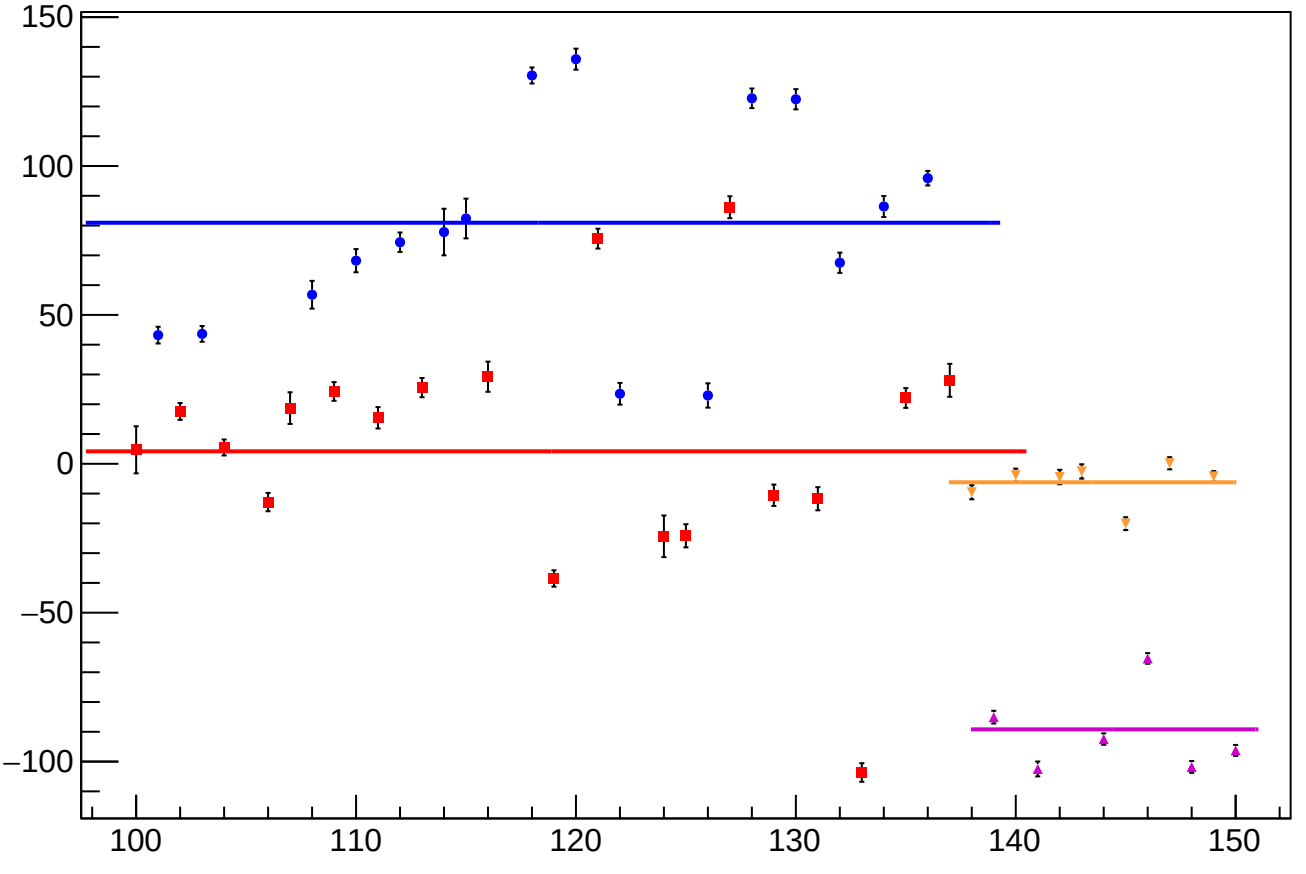
Right: 154.893+/-0.086 $\chi^2$/NDF: 23236046.4/34

In: 154.436+/-0.125 $\chi^2$/NDF:22266108.4/21

Out: 157.060+/-0.118 $\chi^2$/NDF:21961018.0/25

All: 155.830+/-0.086 $\chi^2$/NDF: 44227359.2/47

# diff_bpm0i01X_mean vs Slug, Sign Corrected




Right In: 80.955+/-0.851 $\chi^2$/NDF: 1813.9/15

Left Out: -6.203+/-0.820 $\chi^2$/NDF:57.8/6

Right Out: 4.183+/-0.820 $\chi^2$/NDF: 2719.7/18

Left In: -89.179+/-0.812 $\chi^2$/NDF:267.0/5

Left: -48.068+/-0.577 $\chi^2$/NDF: 5493.6/12

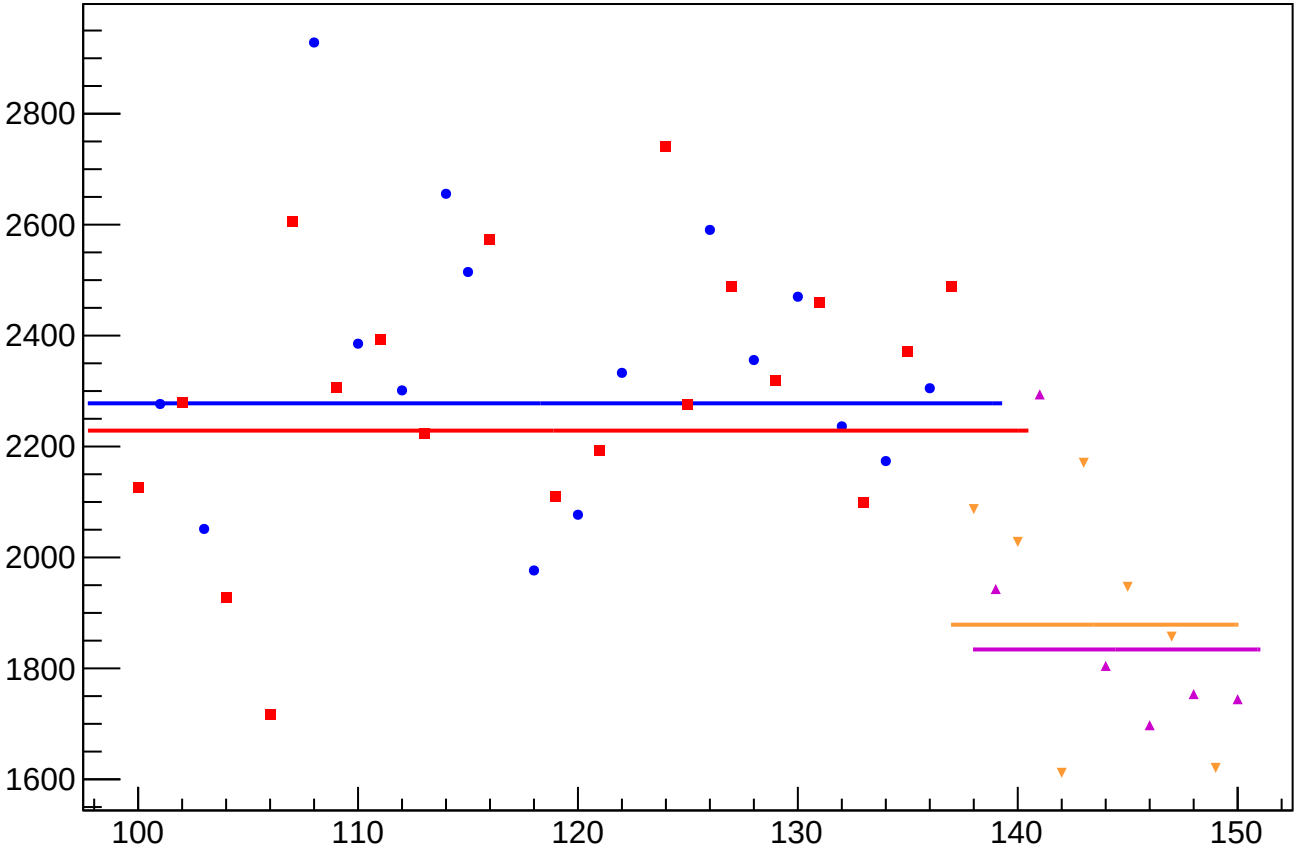
Right: 41.130+/-0.591 $\chi^2$/NDF: 8751.0/34

In: -8.104+/-0.588 $\chi^2$/NDF:22981.1/21

Out: -1.012+/-0.580 $\chi^2$/NDF:2857.8/25

All: -4.509+/-0.413 $\chi^2$/NDF: 25912.6/47

# diff_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 2277.867+/-0.602 $\chi^2$/NDF: 115771.4/15

Left Out: 1878.770+/-0.580 $\chi^2$/NDF:122352.9/6

Right Out: 2228.689+/-0.580 $\chi^2$/NDF: 151135.6/18

Left In: 1834.094+/-0.574 $\chi^2$/NDF:93019.8/5

Left: 1856.229+/-0.408 $\chi^2$/NDF: 218369.4/12

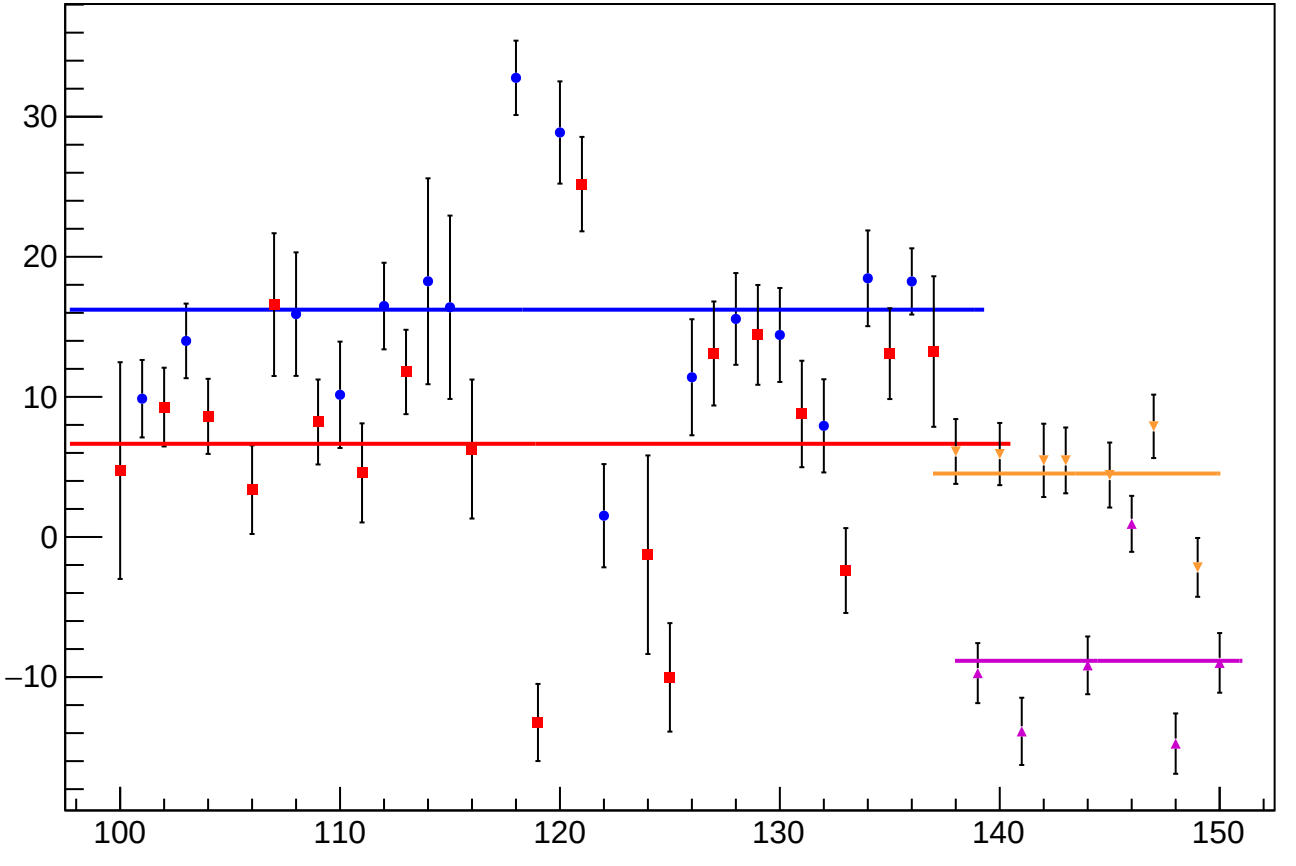
Right: 2252.356+/-0.418 $\chi^2$/NDF: 270367.9/34

In: 2045.569+/-0.416 $\chi^2$/NDF:493182.7/21

Out: 2053.666+/-0.410 $\chi^2$/NDF:455607.5/25

All: 2049.673+/-0.292 $\chi^2$/NDF: 948982.5/47

# diff_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: 16.226+/-0.838 $\chi^2$/NDF: 84.5/15

Left Out: 4.530+/-0.869 $\chi^2$/NDF:13.5/6

Right Out: 6.652+/-0.809 $\chi^2$/NDF: 134.6/18

Left In: -8.840+/-0.873 $\chi^2$/NDF:36.1/5

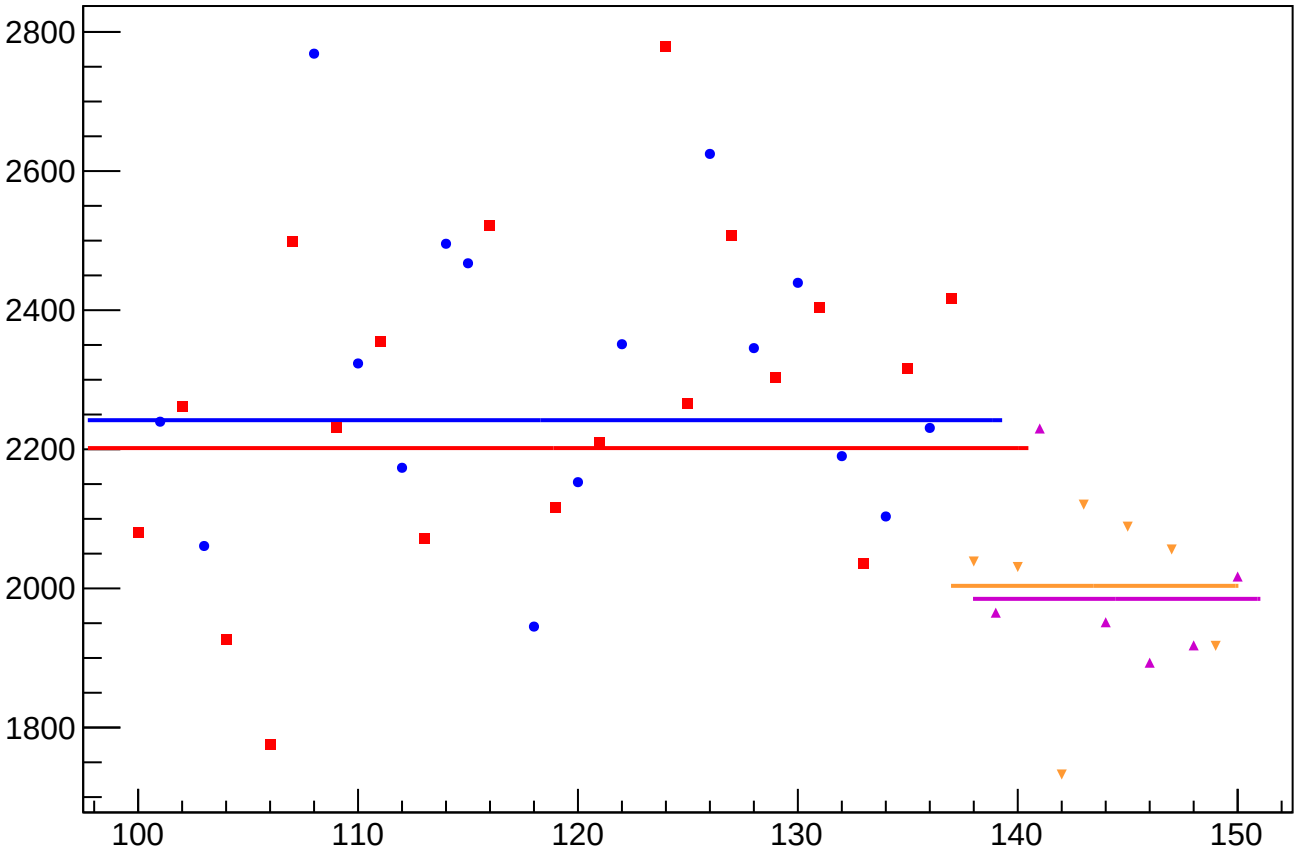
Left: -2.126+/-0.616 $\chi^2$/NDF: 167.5/12

Right: 11.274+/-0.582 $\chi^2$/NDF: 286.7/34

In: 4.207+/-0.604 $\chi^2$/NDF:550.0/21

Out: 5.666+/-0.592 $\chi^2$/NDF:151.3/25

All: 4.951+/-0.423 $\chi^2$/NDF: 704.3/47




Right In: 2241.853+/-0.592 $\chi^2$/NDF: 102260.7/15

Left Out: 2003.700+/-0.614 $\chi^2$/NDF:34316.2/6

Right Out: 2201.739+/-0.572 $\chi^2$/NDF: 129882.5/18

Left In: 1984.993+/-0.617 $\chi^2$/NDF:28133.9/5

Left: 1994.387+/-0.435 $\chi^2$/NDF: 62911.6/12

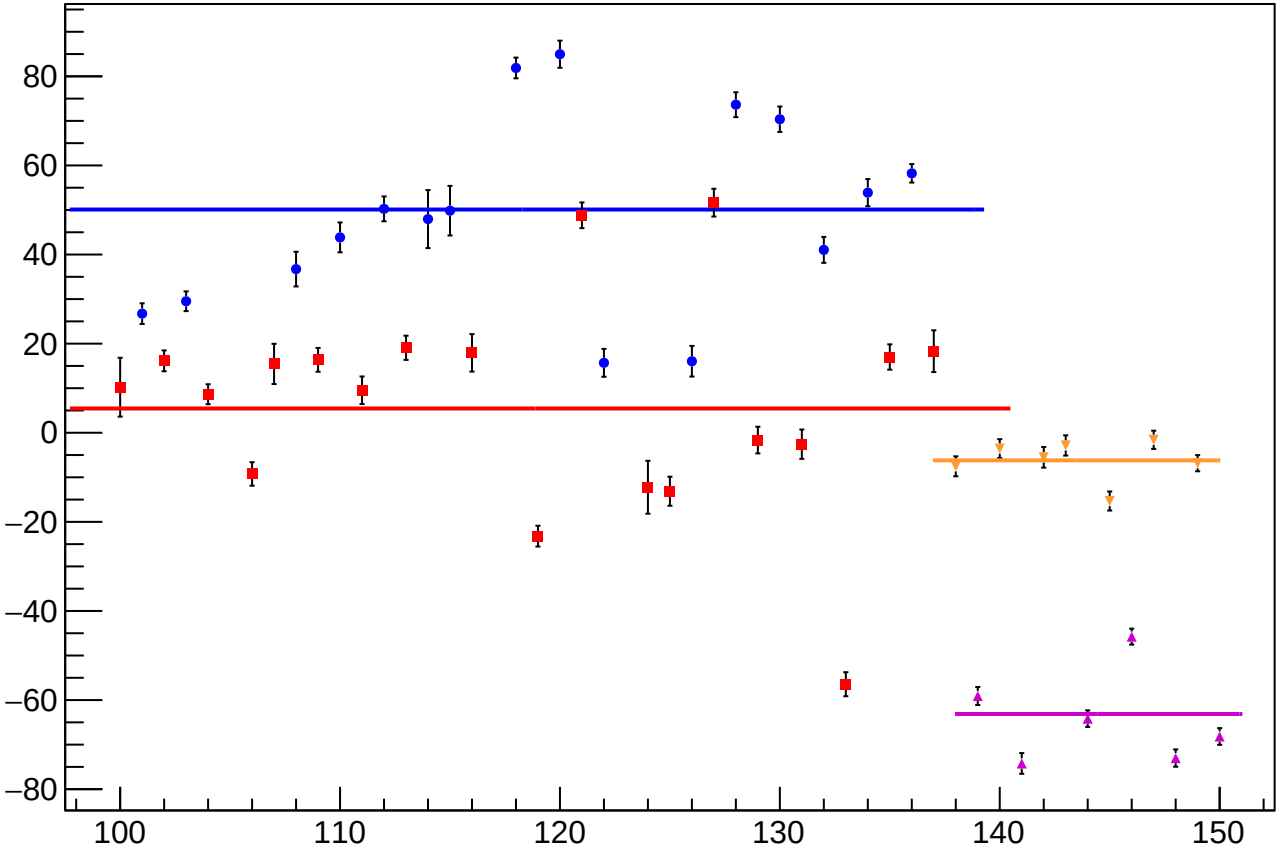
Right: 2221.106+/-0.412 $\chi^2$/NDF: 234515.6/34

In: 2118.688+/-0.427 $\chi^2$/NDF:220580.3/21

Out: 2109.743+/-0.419 $\chi^2$/NDF:219831.7/25

All: 2114.125+/-0.299 $\chi^2$/NDF: 440635.6/47

# diff_bpm0i01aX_mean vs Slug, Sign Corrected




Right In: 50.102+/-0.722 $\chi^2$/NDF: 888.5/15

Left Out: -6.195+/-0.799 $\chi^2$/NDF:27.7/6

Right Out: 5.444+/-0.694 $\chi^2$/NDF: 1311.6/18

Left In: -63.122+/-0.795 $\chi^2$/NDF:154.6/5

Left: -34.813+/-0.564 $\chi^2$/NDF: 2733.3/12

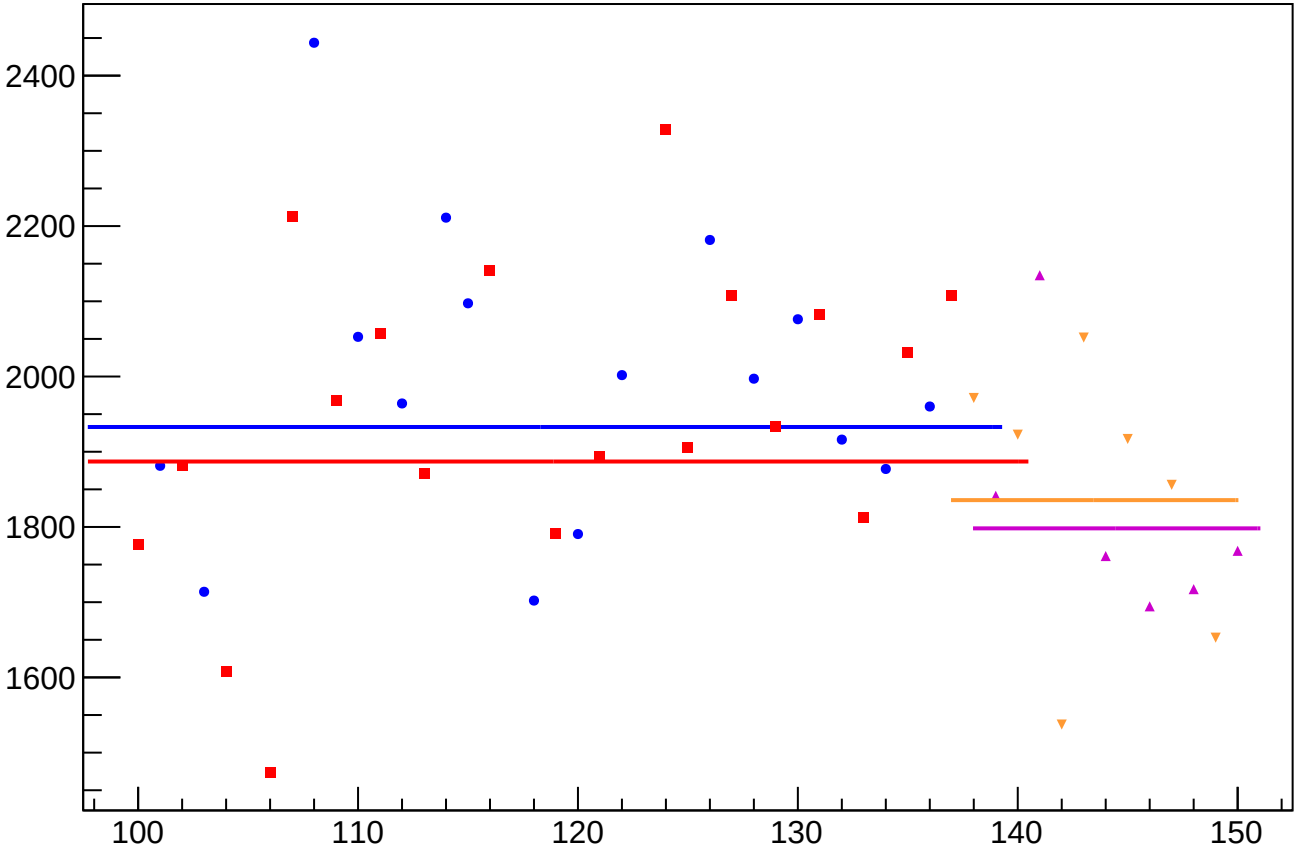
Right: 26.895+/-0.500 $\chi^2$/NDF: 4187.6/34

In: -1.096+/-0.534 $\chi^2$/NDF:12159.6/21

Out: 0.438+/-0.524 $\chi^2$/NDF:1460.1/25

All: -0.314+/-0.374 $\chi^2$/NDF: 13623.9/47

# diff_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 1932.904+/-0.511 $\chi^2$/NDF: 105967.6/15

Left Out: 1835.684+/-0.565 $\chi^2$/NDF:85366.6/6

Right Out: 1887.006+/-0.491 $\chi^2$/NDF: 149746.6/18

Left In: 1798.143+/-0.562 $\chi^2$/NDF:54281.9/5

Left: 1816.812+/-0.398 $\chi^2$/NDF: 141867.3/12

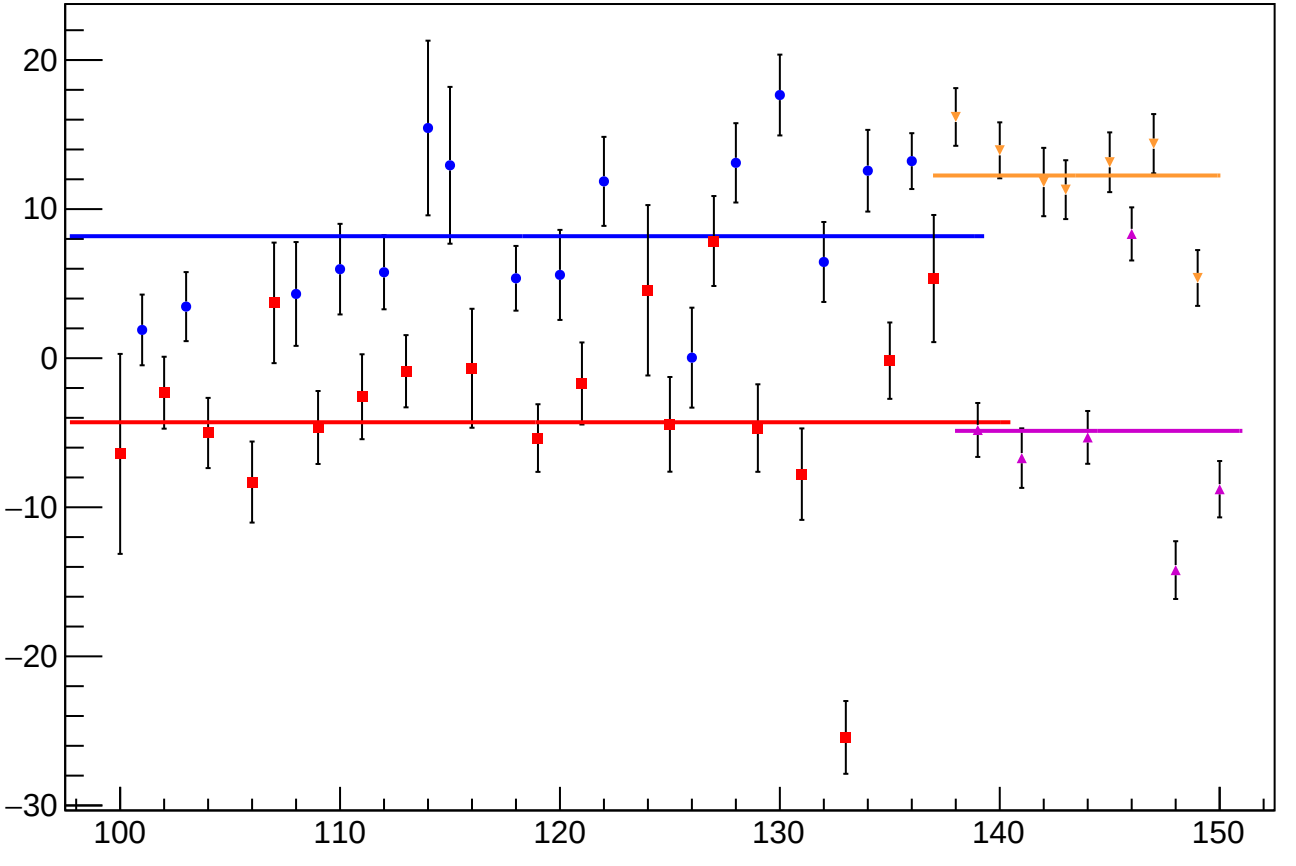
Right: 1909.052+/-0.354 $\chi^2$/NDF: 259912.9/34

In: 1871.967+/-0.378 $\chi^2$/NDF:191744.8/21

Out: 1864.931+/-0.371 $\chi^2$/NDF:239814.0/25

All: 1868.380+/-0.265 $\chi^2$/NDF: 431735.5/47

# diff_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 8.183+/-0.684 $\chi^2$/NDF: 52.0/15

Left Out: 12.255+/-0.748 $\chi^2$/NDF:20.0/6

Right Out: -4.297+/-0.665 $\chi^2$/NDF: 114.0/18

Left In: -4.875+/-0.759 $\chi^2$/NDF:83.4/5

Left: 3.810+/-0.533 $\chi^2$/NDF: 361.7/12

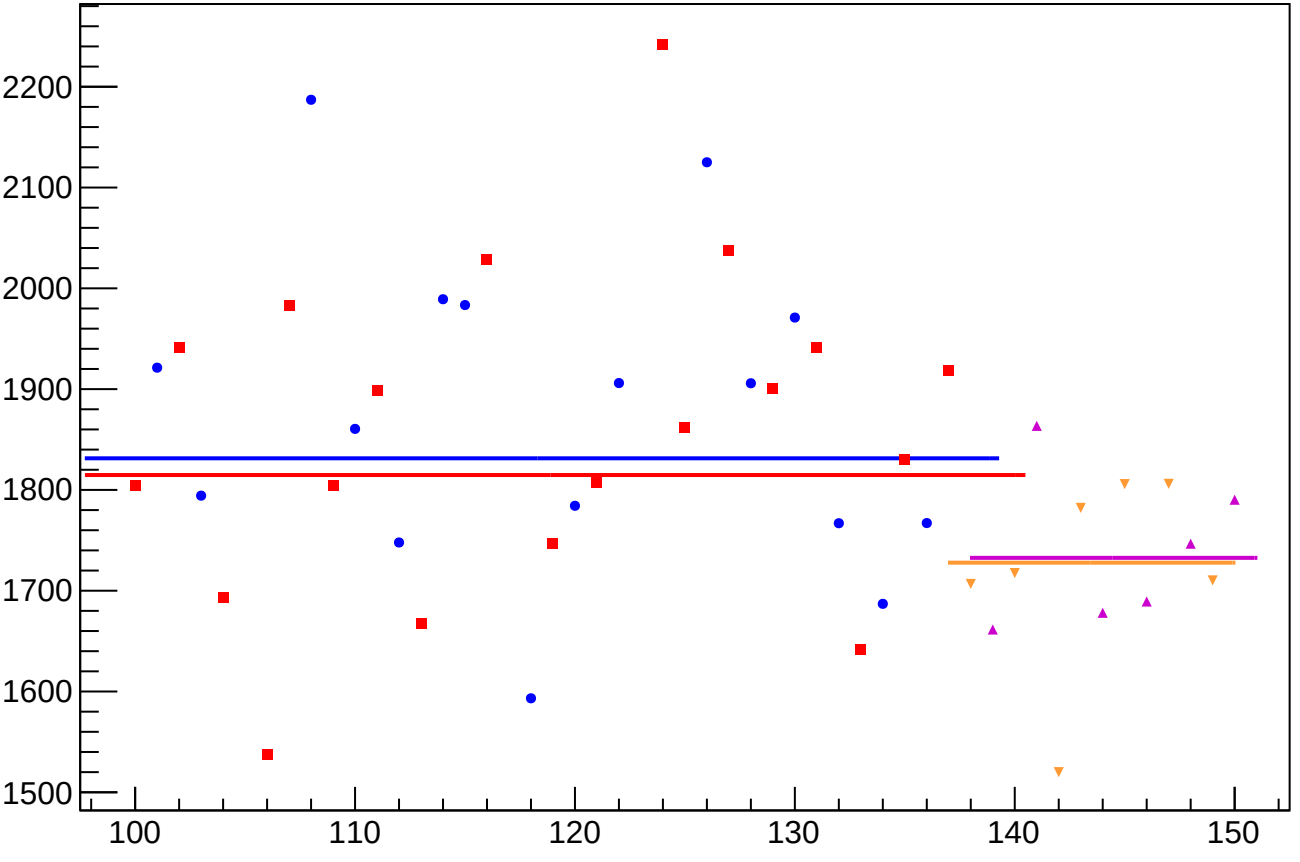
Right: 1.776+/-0.477 $\chi^2$/NDF: 337.0/34

In: 2.334+/-0.508 $\chi^2$/NDF:298.8/21

Out: 3.012+/-0.497 $\chi^2$/NDF:407.1/25

All: 2.680+/-0.355 $\chi^2$/NDF: 706.9/47

# diff_bpm0i01aY_rms vs Slug, Sign Corrected




Right In: 1831.359+/-0.483 $\chi^2$/NDF: 86919.2/15

Left Out: 1727.815+/-0.529 $\chi^2$/NDF:24564.1/6

Right Out: 1814.774+/-0.471 $\chi^2$/NDF: 90738.7/18

Left In: 1732.609+/-0.537 $\chi^2$/NDF:16730.1/5

Left: 1730.179+/-0.377 $\chi^2$/NDF: 41334.6/12

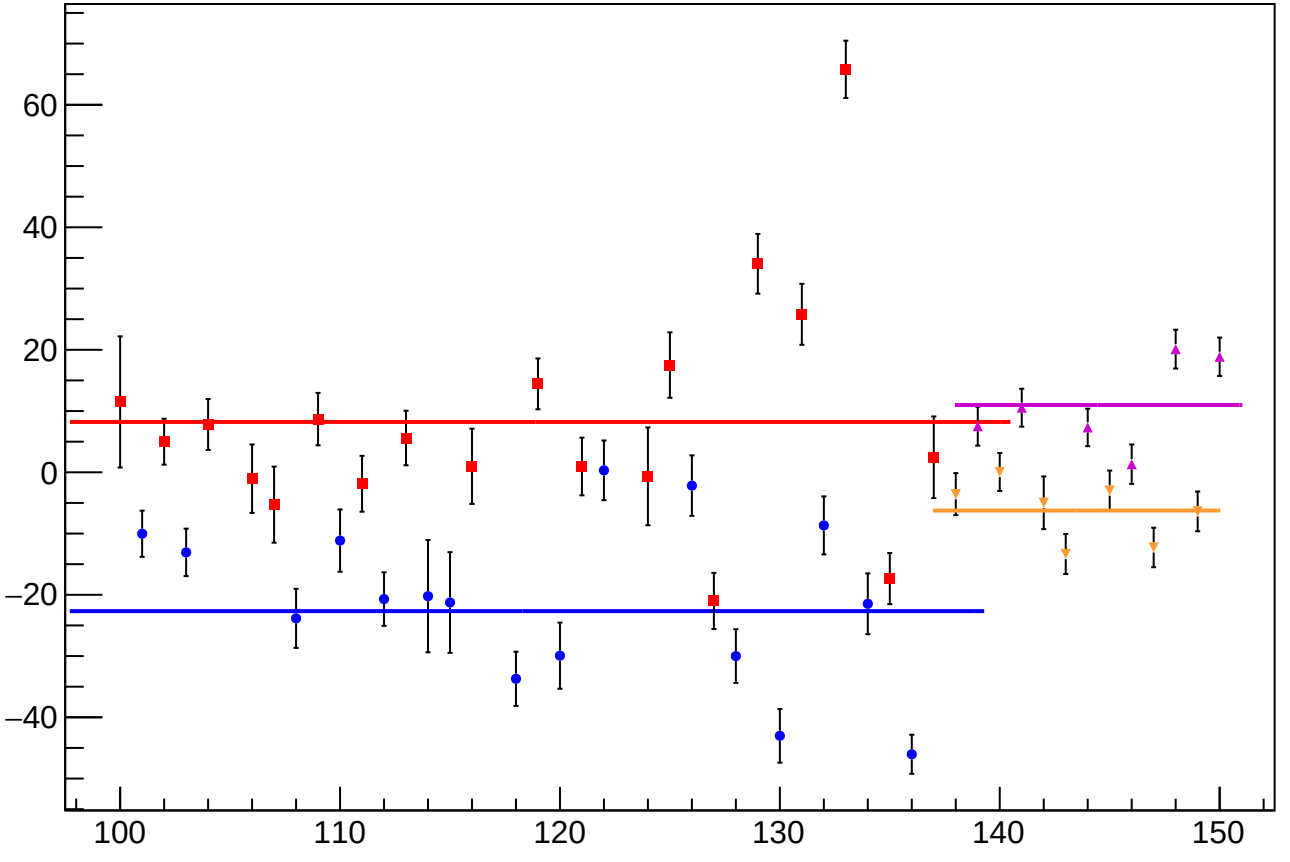
Right: 1822.844+/-0.337 $\chi^2$/NDF: 178262.4/34

In: 1787.129+/-0.359 $\chi^2$/NDF:122344.5/21

Out: 1776.375+/-0.352 $\chi^2$/NDF:130383.2/25

All: 1781.638+/-0.251 $\chi^2$/NDF: 253185.4/47

# diff_bpm0l01X_mean vs Slug, Sign Corrected




Right In: -22.663+/-1.152 $\chi^2$/NDF: 157.2/15

Left Out: -6.244+/-1.270 $\chi^2$/NDF:14.0/6

Right Out: 8.224+/-1.129 $\chi^2$/NDF: 294.8/18

Left In: 10.982+/-1.282 $\chi^2$/NDF:26.2/5

Left: 2.284+/-0.902 $\chi^2$/NDF: 131.3/12

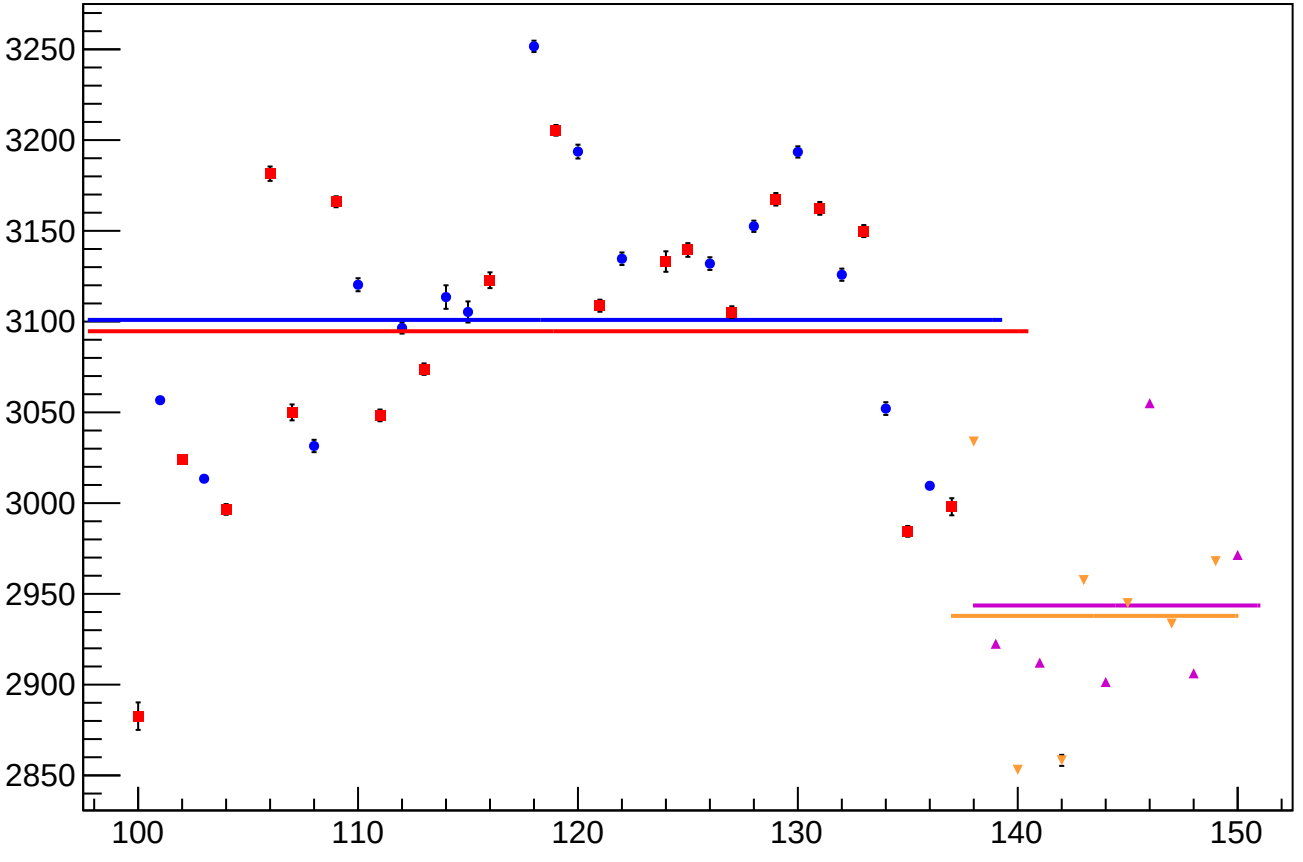
Right: -6.906+/-0.806 $\chi^2$/NDF: 818.8/34

In: -7.638+/-0.857 $\chi^2$/NDF:564.4/21

Out: 1.837+/-0.844 $\chi^2$/NDF:381.3/25

All: -2.826+/-0.601 $\chi^2$/NDF: 1007.8/47

# diff_bpm0l01X_rms vs Slug, Sign Corrected




Right In: 3100.940+/-0.815 $\chi^2$/NDF: 7893.7/15

Left Out: 2937.880+/-0.898 $\chi^2$/NDF:3994.7/6

Right Out: 3094.688+/-0.798 $\chi^2$/NDF: 8584.4/18

Left In: 2943.605+/-0.907 $\chi^2$/NDF:3510.3/5

Left: 2940.714+/-0.638 $\chi^2$/NDF: 7525.1/12

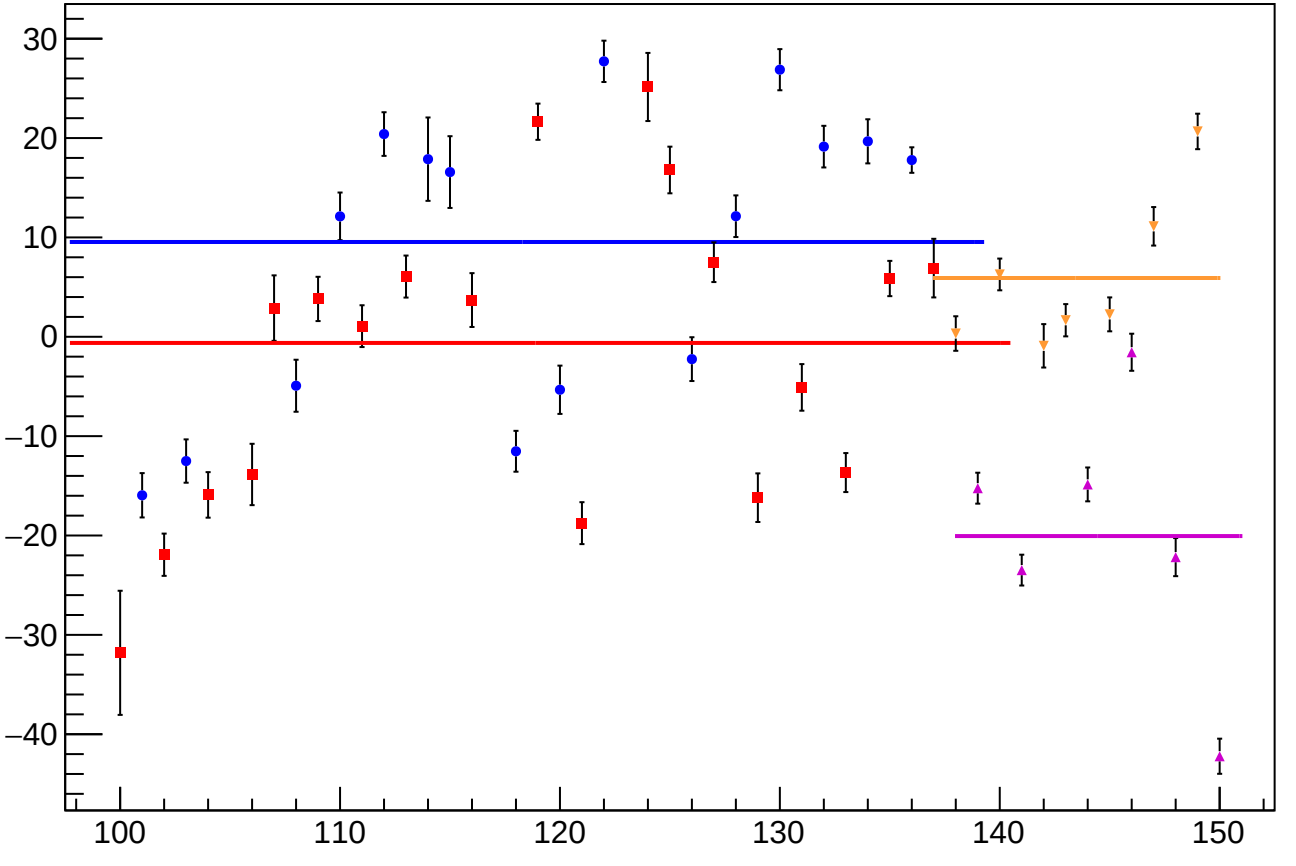
Right: 3097.751+/-0.570 $\chi^2$/NDF: 16508.2/34

In: 3030.676+/-0.606 $\chi^2$/NDF:28066.2/21

Out: 3025.469+/-0.597 $\chi^2$/NDF:29616.0/25

All: 3028.032+/-0.425 $\chi^2$/NDF: 57719.7/47

# diff_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: 9.540+/-0.541 $\chi^2$/NDF: 698.7/15

Left Out: 5.916+/-0.669 $\chi^2$/NDF:107.0/6

Right Out: -0.620+/-0.534 $\chi^2$/NDF: 665.8/18

Left In: -20.056+/-0.698 $\chi^2$/NDF:280.5/5

Left: -6.517+/-0.483 $\chi^2$/NDF: 1109.2/12

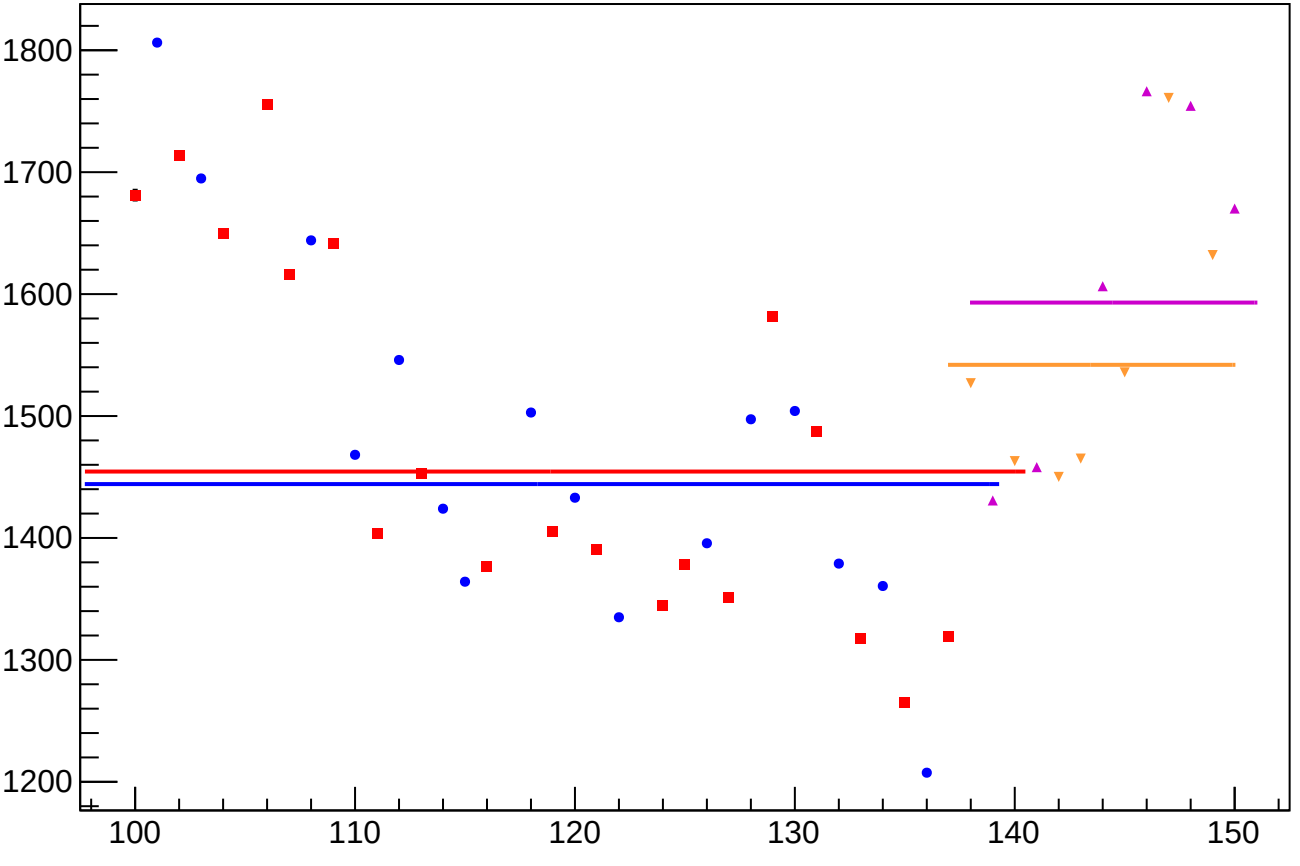
Right: 4.392+/-0.380 $\chi^2$/NDF: 1543.1/34

In: -1.574+/-0.428 $\chi^2$/NDF:2101.8/21

Out: 1.925+/-0.417 $\chi^2$/NDF:831.1/25

All: 0.218+/-0.299 $\chi^2$/NDF: 2967.3/47

# diff_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 1444.188+/-0.383 $\chi^2$/NDF: 180147.9/15

Left Out: 1541.994+/-0.473 $\chi^2$/NDF:43687.9/6

Right Out: 1454.470+/-0.378 $\chi^2$/NDF: 142772.9/18

Left In: 1593.052+/-0.494 $\chi^2$/NDF:72249.0/5

Left: 1566.436+/-0.342 $\chi^2$/NDF: 121515.0/12

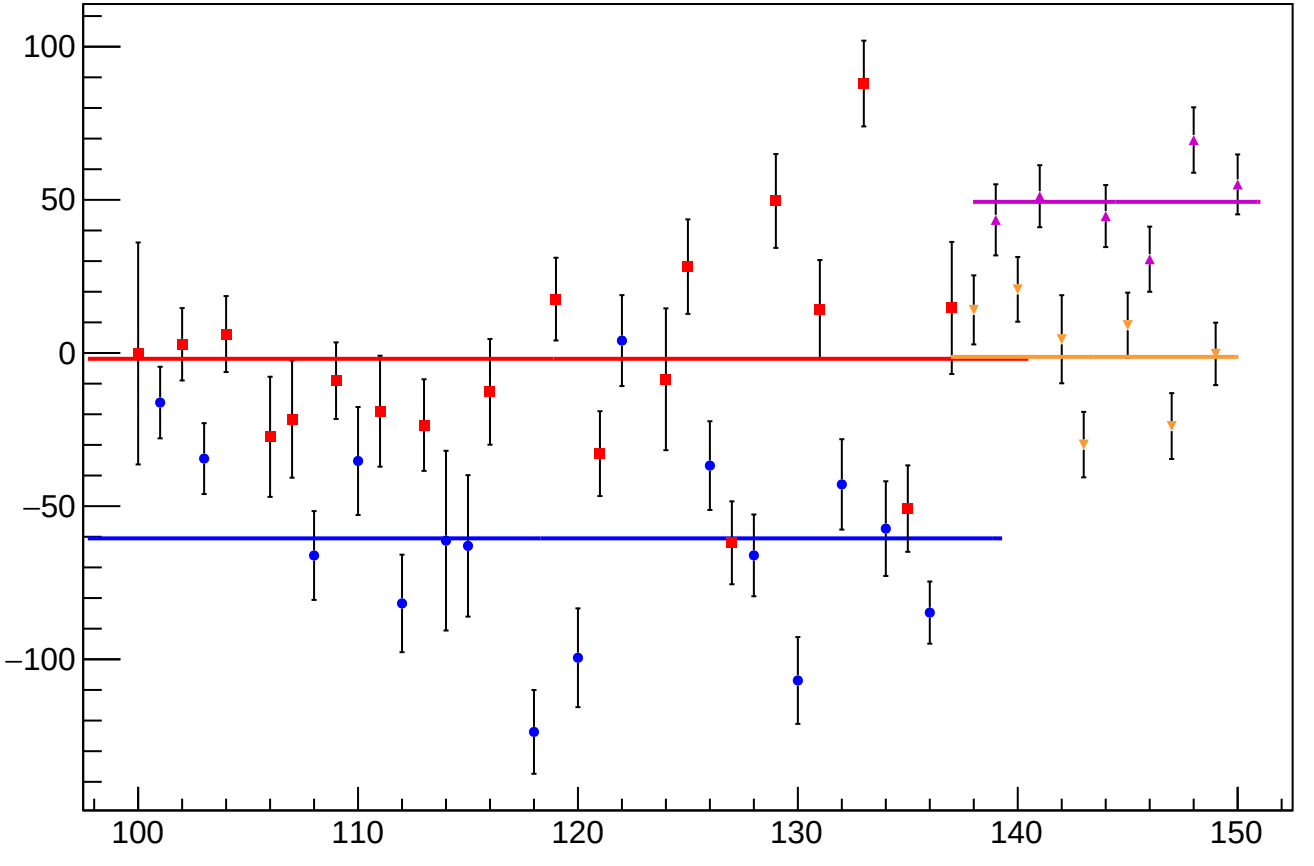
Right: 1449.398+/-0.269 $\chi^2$/NDF: 323286.5/34

In: 1500.090+/-0.302 $\chi^2$/NDF:309199.6/21

Out: 1488.547+/-0.295 $\chi^2$/NDF:207371.0/25

All: 1494.177+/-0.211 $\chi^2$/NDF: 517316.6/47

# diff_bpm0l02X_mean vs Slug, Sign Corrected




Right In: -60.516+/-3.596 $\chi^2$/NDF: 90.3/15

Left Out: -1.256+/-4.169 $\chi^2$/NDF:18.9/6

Right Out: -1.894+/-3.543 $\chi^2$/NDF: 103.8/18

Left In: 49.349+/-4.264 $\chi^2$/NDF:7.5/5

Left: 23.475+/-2.981 $\chi^2$/NDF: 98.4/12

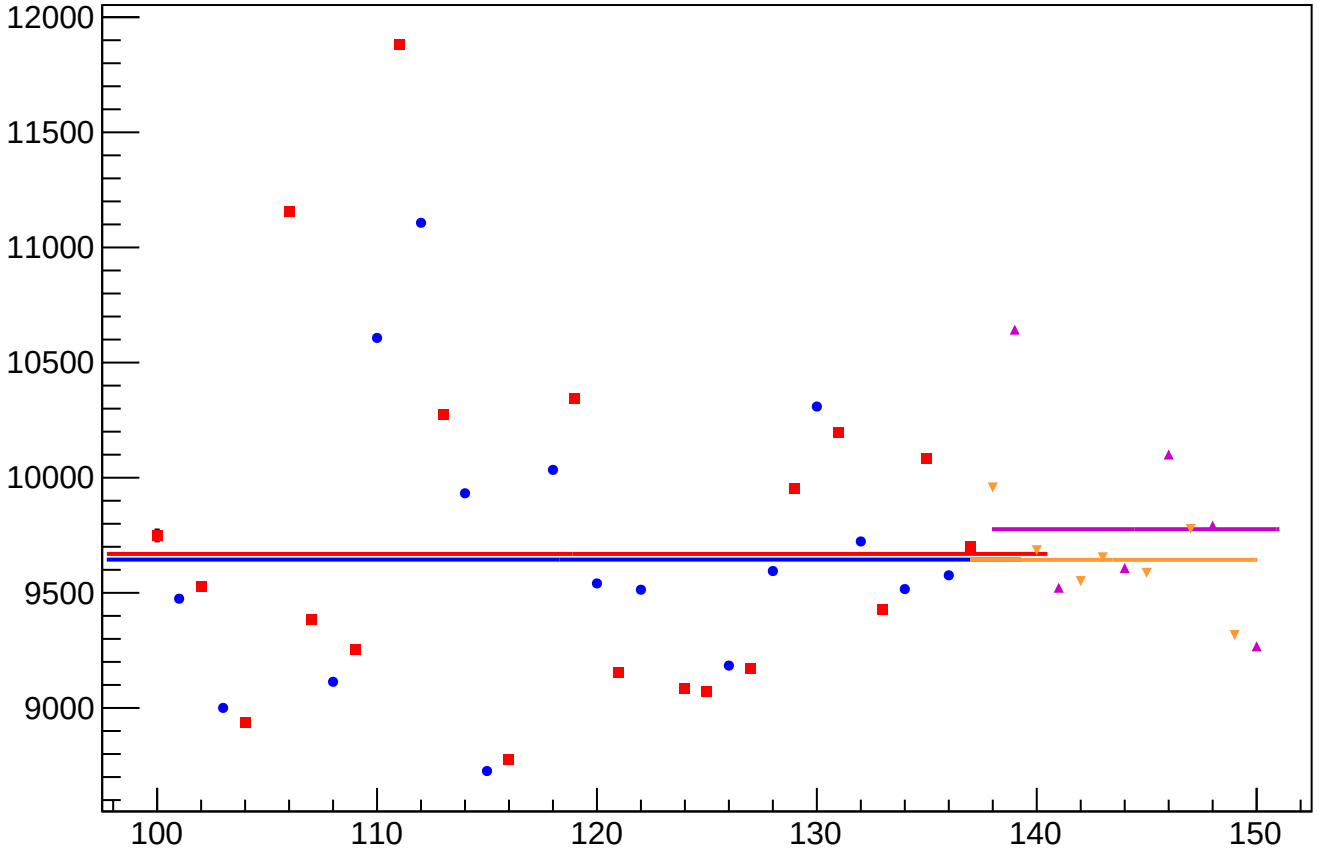
Right: -30.766+/-2.524 $\chi^2$/NDF: 329.0/34

In: -14.854+/-2.749 $\chi^2$/NDF:485.7/21

Out: -1.626+/-2.700 $\chi^2$/NDF:122.8/25

All: -8.120+/-1.926 $\chi^2$/NDF: 620.3/47

# diff_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 9644.396+/-2.543 $\chi^2$/NDF: 44101.6/15

Left Out: 9643.417+/-2.948 $\chi^2$/NDF:4093.0/6

Right Out: 9669.136+/-2.505 $\chi^2$/NDF: 79878.1/18

Left In: 9776.421+/-3.015 $\chi^2$/NDF:20230.5/5

Left: 9708.417+/-2.108 $\chi^2$/NDF: 25318.3/12

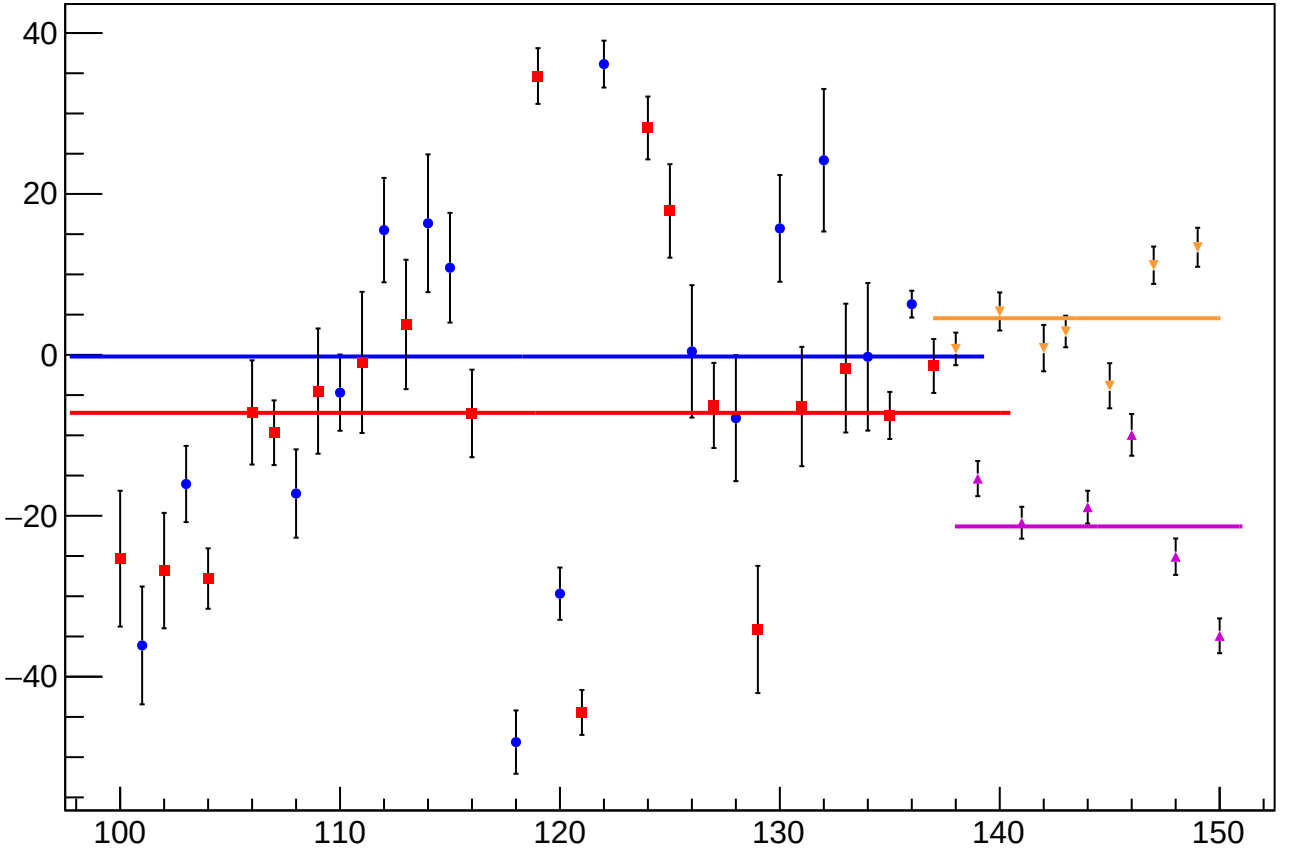
Right: 9656.951+/-1.785 $\chi^2$/NDF: 124027.7/34

In: 9699.268+/-1.944 $\chi^2$/NDF:65452.4/21

Out: 9658.351+/-1.909 $\chi^2$/NDF:84015.3/25

All: 9678.438+/-1.362 $\chi^2$/NDF: 149693.2/47

# diff_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: -0.206+/-1.045 $\chi^2$/NDF: 473.7/15

Left Out: 4.551+/-0.882 $\chi^2$/NDF:36.3/6

Right Out: -7.206+/-1.074 $\chi^2$/NDF: 485.6/18

Left In: -21.325+/-0.890 $\chi^2$/NDF:70.3/5

Left: -8.265+/-0.627 $\chi^2$/NDF: 532.9/12

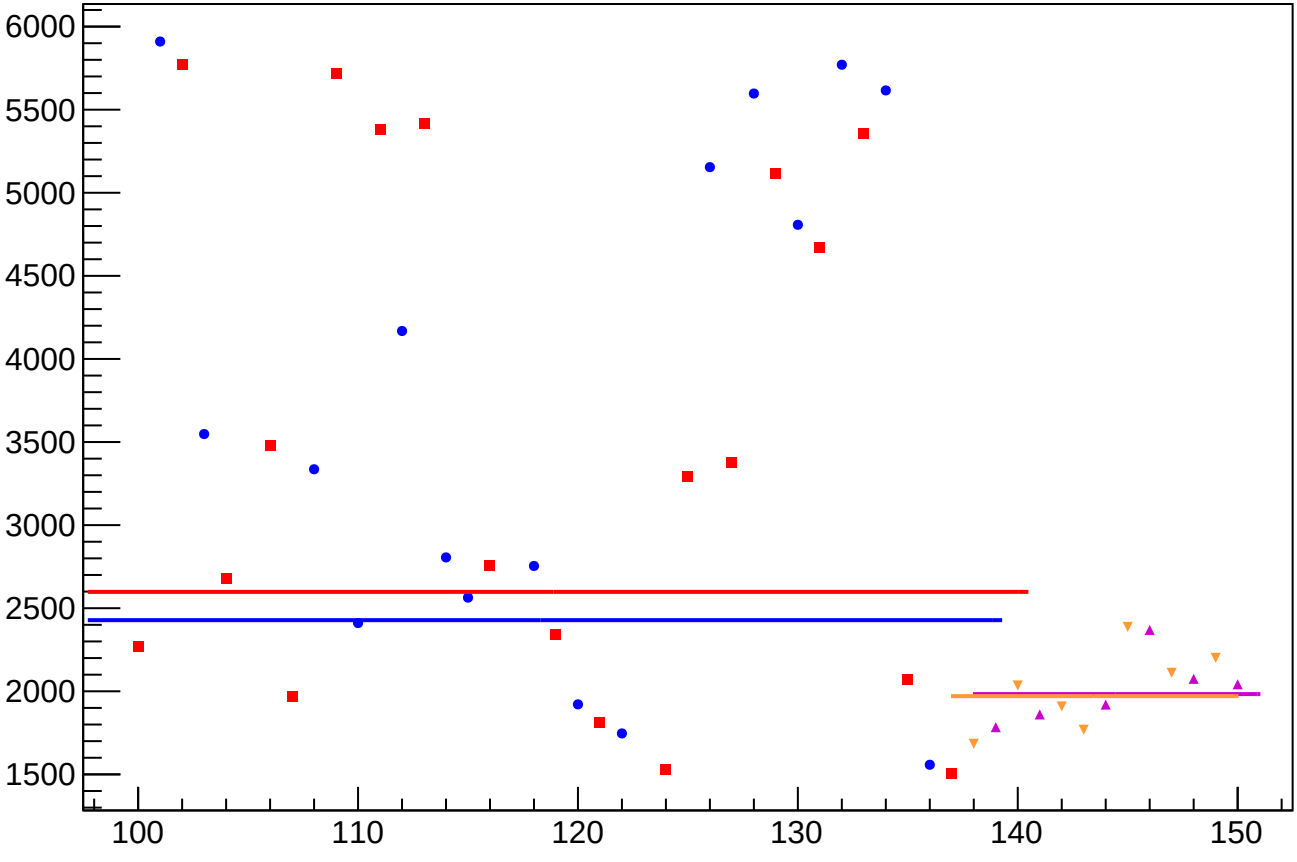
Right: -3.613+/-0.749 $\chi^2$/NDF: 981.2/34

In: -12.446+/-0.678 $\chi^2$/NDF:780.6/21

Out: -0.186+/-0.682 $\chi^2$/NDF:593.5/25

All: -6.350+/-0.481 $\chi^2$/NDF: 1536.8/47

# diff_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 2428.080+/-0.739 $\chi^2$/NDF: 2815335.2/15

Left Out: 1970.731+/-0.624 $\chi^2$/NDF:133332.3/6

Right Out: 2598.321+/-0.759 $\chi^2$/NDF: 2514932.7/18

Left In: 1983.235+/-0.630 $\chi^2$/NDF:75299.0/5

Left: 1976.924+/-0.443 $\chi^2$/NDF: 208830.4/12

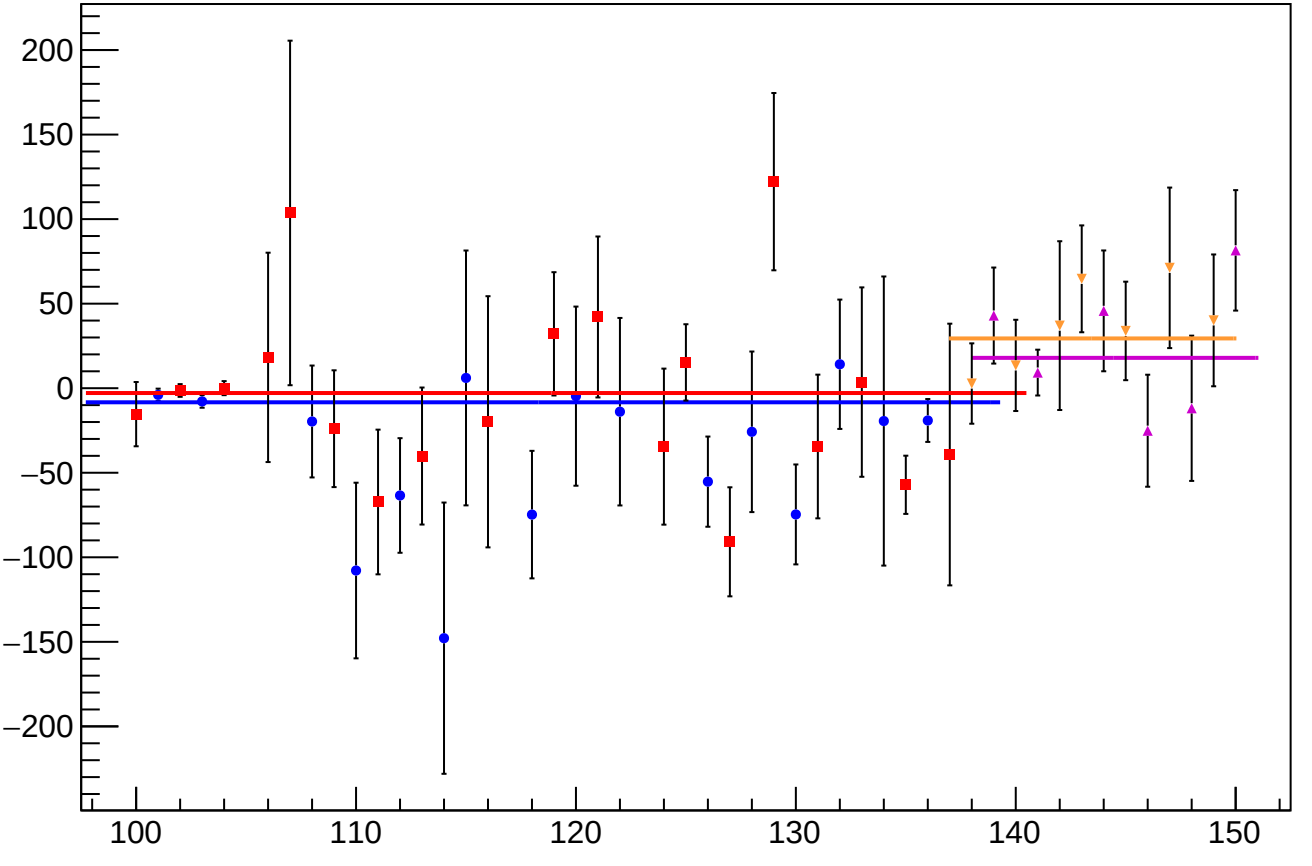
Right: 2510.930+/-0.530 $\chi^2$/NDF: 5356082.2/34

In: 2170.253+/-0.479 $\chi^2$/NDF:3100548.1/21

Out: 2223.612+/-0.482 $\chi^2$/NDF:3056297.9/25

All: 2196.787+/-0.340 $\chi^2$/NDF: 6163009.5/47

# diff_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -8.332+/-2.499 $\chi^2$/NDF: 23.4/15

Left Out: 29.435+/-12.102 $\chi^2$/NDF:3.7/6

Right Out: -2.848+/-2.640 $\chi^2$/NDF: 32.6/18

Left In: 17.948+/-10.148 $\chi^2$/NDF:7.2/5

Left: 22.690+/-7.776 $\chi^2$/NDF: 11.4/12

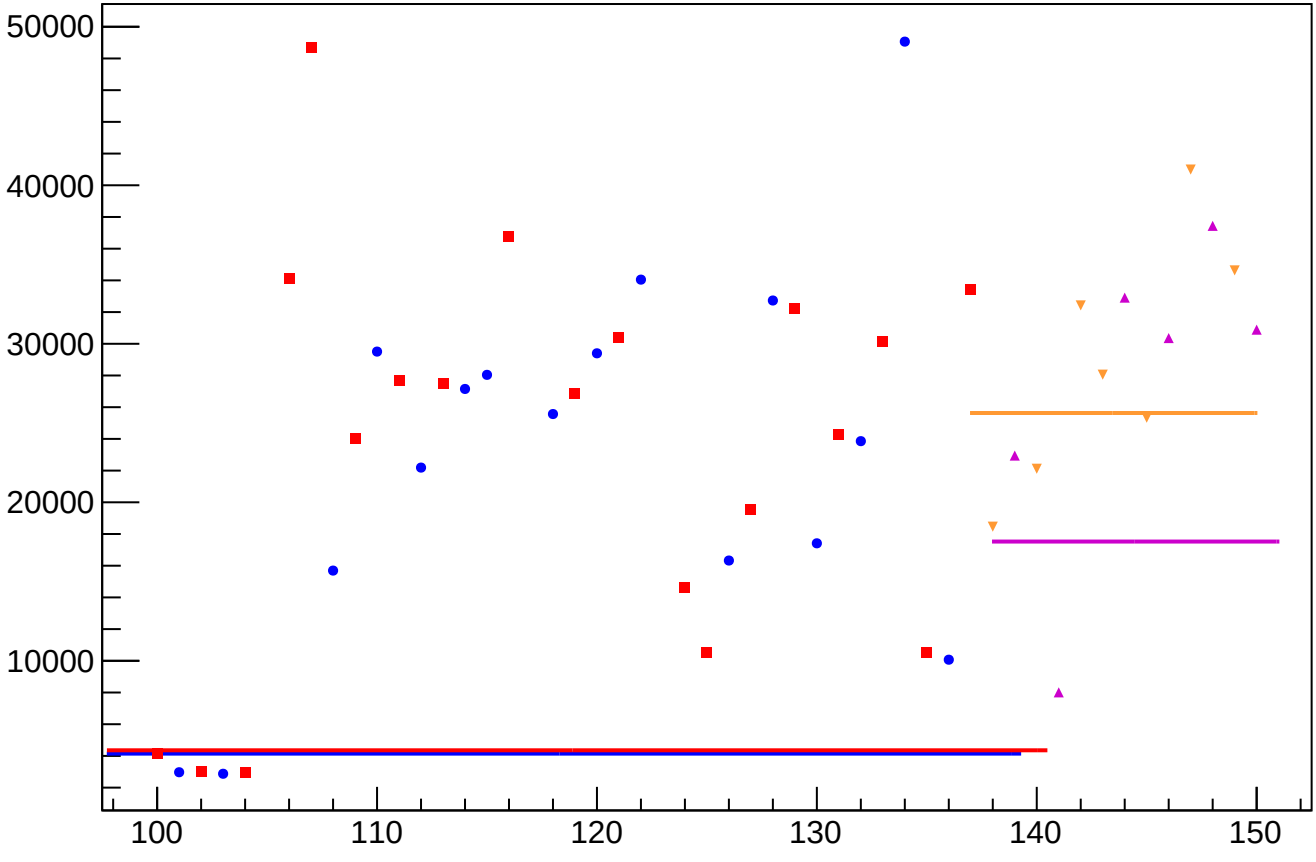
Right: -5.740+/-1.815 $\chi^2$/NDF: 58.3/34

In: -6.829+/-2.427 $\chi^2$/NDF:36.9/21

Out: -1.382+/-2.579 $\chi^2$/NDF:43.2/25

All: -4.271+/-1.767 $\chi^2$/NDF: 82.4/47

# diff_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 4145.795+/-1.767 $\chi^2$/NDF: 6836950.5/15

Left Out: 25633.938+/-8.557 $\chi^2$/NDF:580946.0/6

Right Out: 4354.437+/-1.866 $\chi^2$/NDF: 7624762.5/18

Left In: 17523.557+/-7.175 $\chi^2$/NDF:2442035.4/5

Left: 20871.833+/-5.498 $\chi^2$/NDF: 3550420.8/12

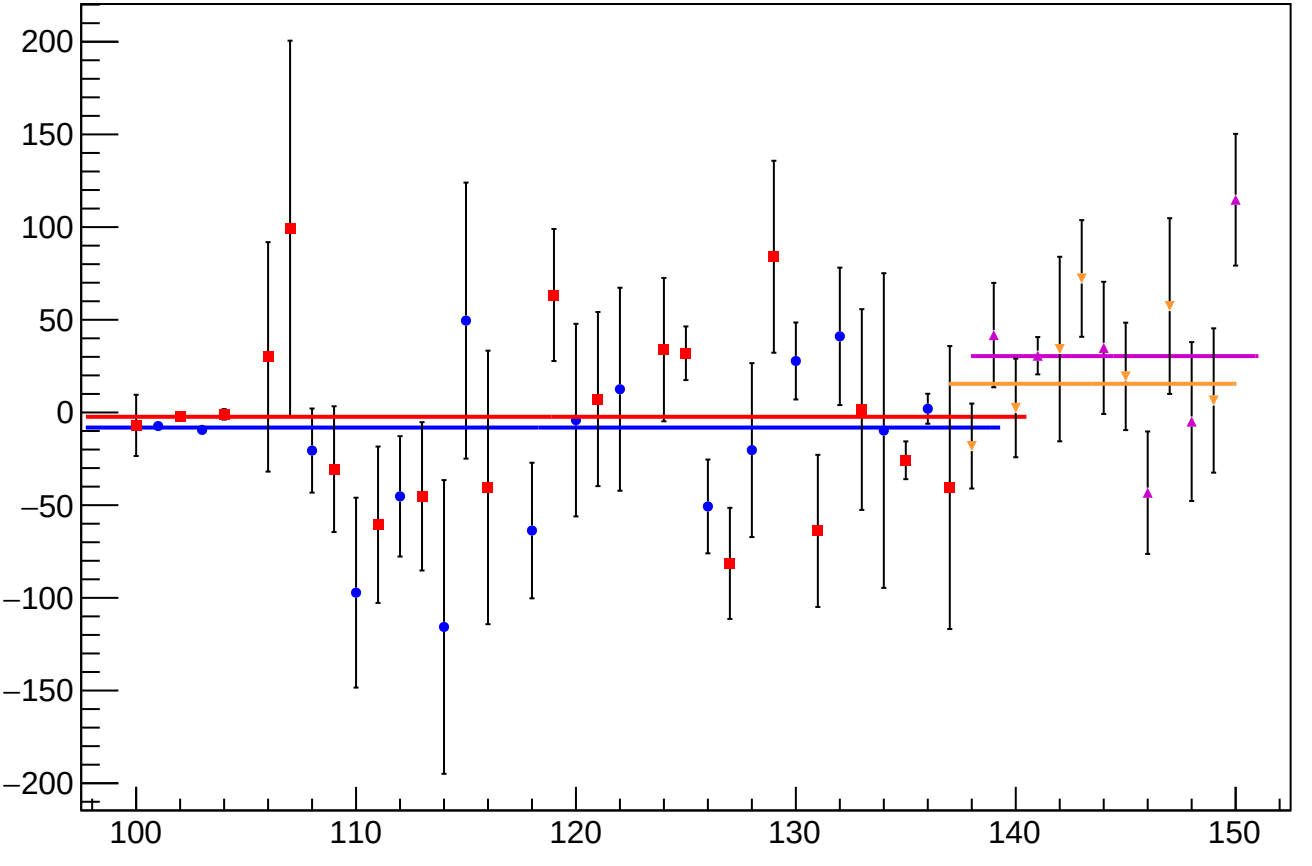
Right: 4244.429+/-1.283 $\chi^2$/NDF: 14468301.6/34

In: 4910.946+/-1.716 $\chi^2$/NDF:12556153.0/21

Out: 5320.807+/-1.824 $\chi^2$/NDF:14108680.4/25

All: 5103.436+/-1.250 $\chi^2$/NDF: 26691624.5/4

# diff_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: -8.132+/-1.720 $\chi^2$/NDF: 19.1/15

Left Out: 15.478+/-11.929 $\chi^2$/NDF:6.6/6

Right Out: -2.325+/-1.822 $\chi^2$/NDF: 33.1/18

Left In: 30.409+/-8.399 $\chi^2$/NDF:11.5/5

Left: 25.460+/-6.868 $\chi^2$/NDF: 19.2/12

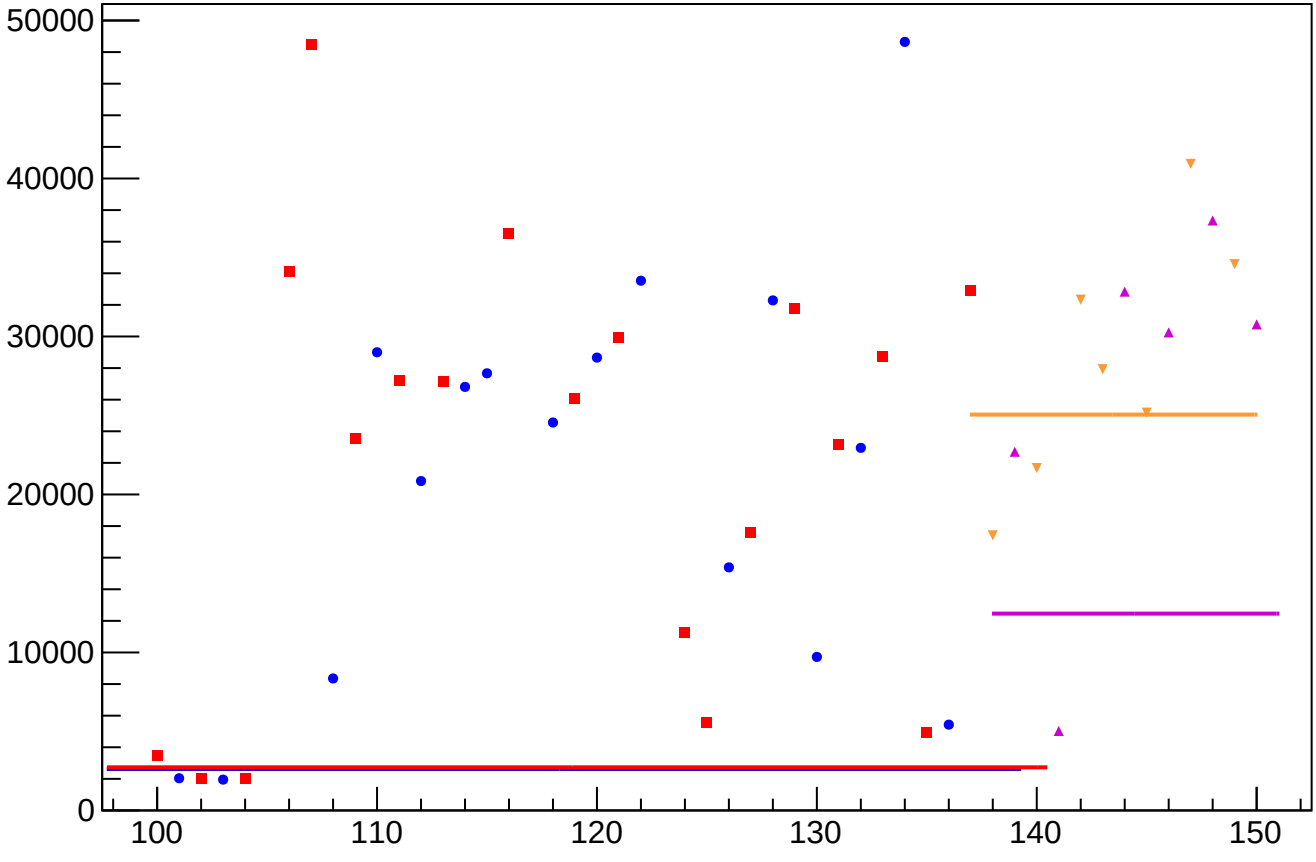
Right: -5.394+/-1.251 $\chi^2$/NDF: 57.5/34

In: -6.581+/-1.685 $\chi^2$/NDF:50.8/21

Out: -1.919+/-1.801 $\chi^2$/NDF:41.9/25

All: -4.404+/-1.231 $\chi^2$/NDF: 96.2/47

# diff_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 2626.430+/-1.216 $\chi^2$/NDF: 6780884.6/15

Left Out: 25055.174+/-8.435 $\chi^2$/NDF:658149.6/6

Right Out: 2730.235+/-1.288 $\chi^2$/NDF: 7985984.4/18

Left In: 12458.652+/-5.939 $\chi^2$/NDF:3794092.8/5

Left: 16633.810+/-4.856 $\chi^2$/NDF: 5943214.0/12

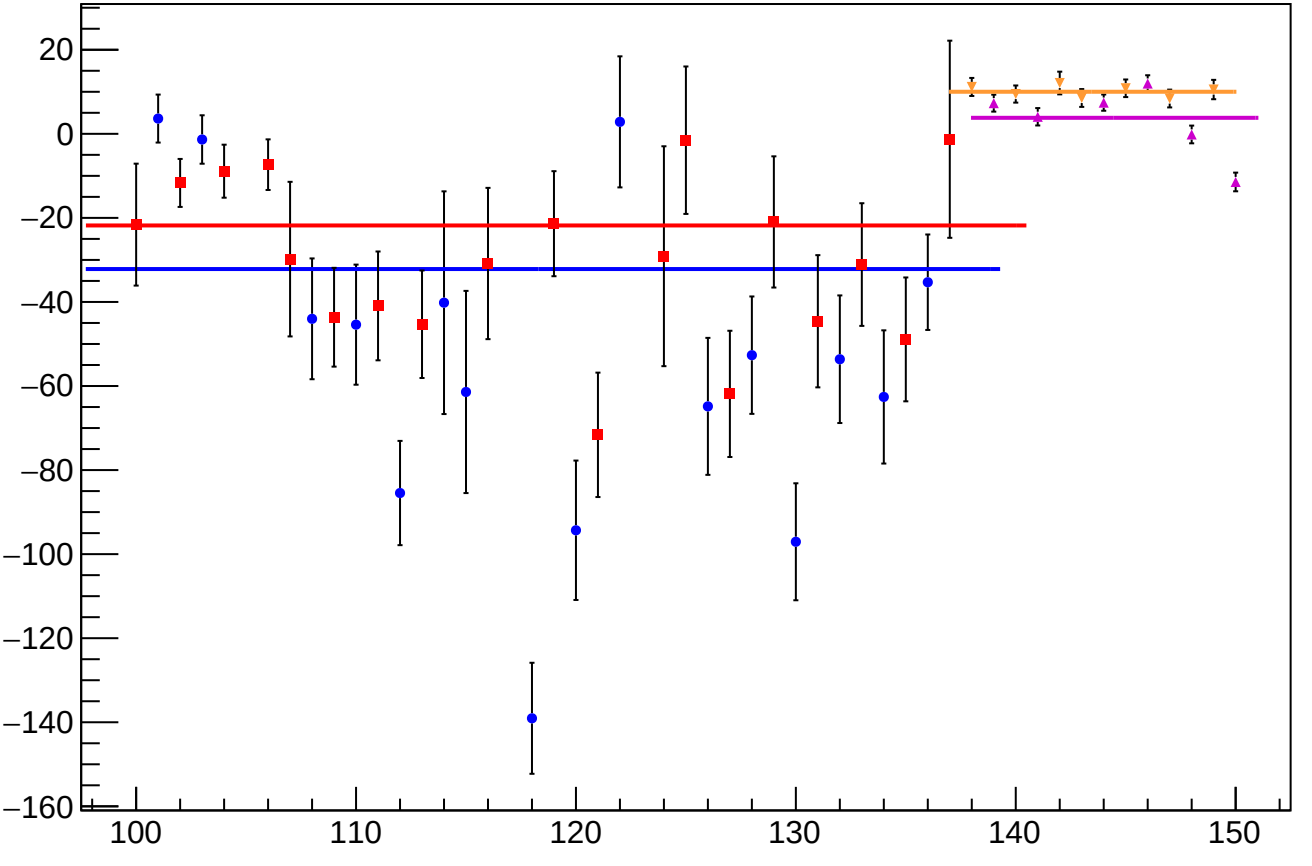
Right: 2675.367+/-0.884 $\chi^2$/NDF: 14770301.6/34

In: 3022.319+/-1.192 $\chi^2$/NDF:13205249.3/21

Out: 3239.002+/-1.273 $\chi^2$/NDF:15489632.1/25

All: 3123.497+/-0.870 $\chi^2$/NDF: 28710317.4/4

# diff_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -32.171+/-2.842 $\chi^2$/NDF: 207.8/15

Left Out: 10.010+/-0.828 $\chi^2$/NDF:2.2/6

Right Out: -21.801+/-2.557 $\chi^2$/NDF: 49.1/18

Left In: 3.811+/-0.836 $\chi^2$/NDF:74.4/5

Left: 6.937+/-0.588 $\chi^2$/NDF: 104.3/12

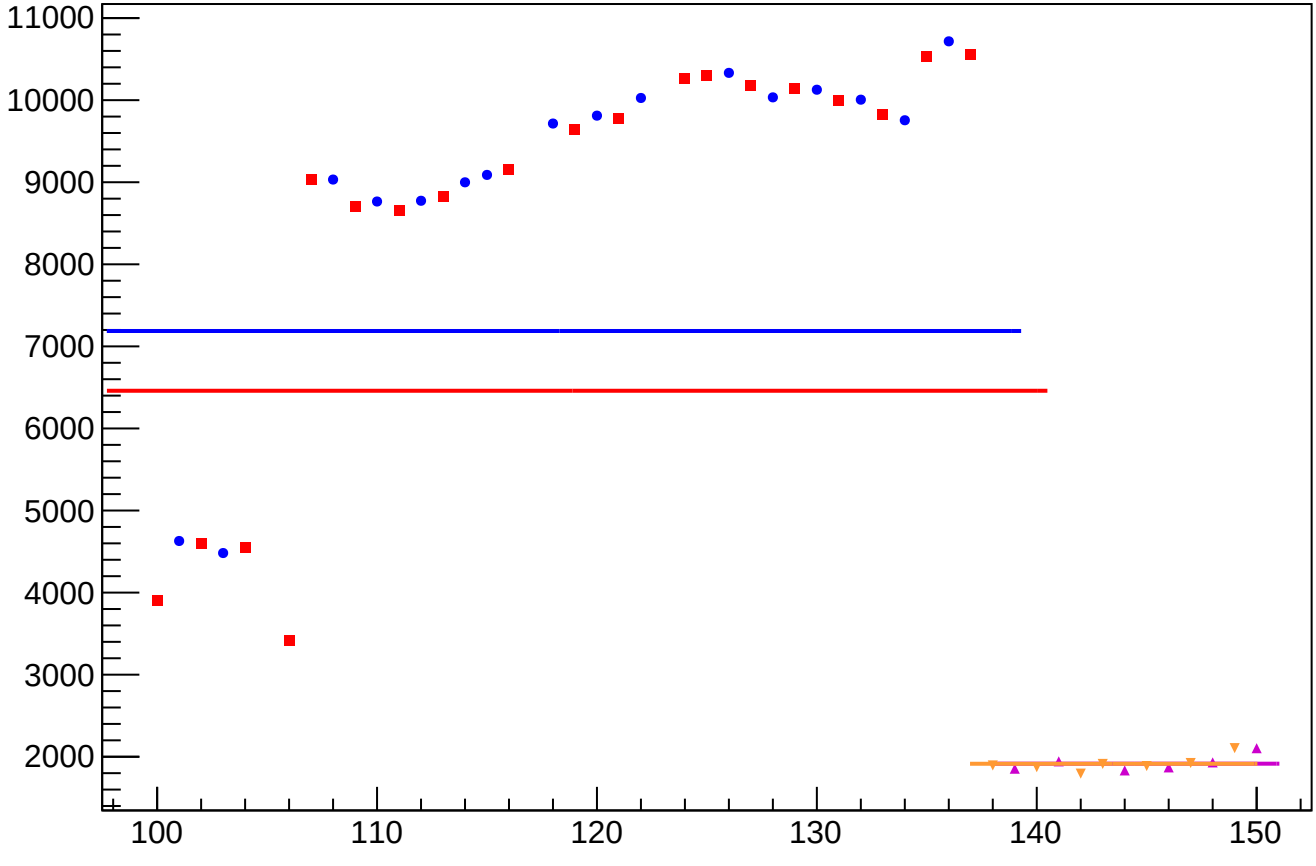
Right: -26.441+/-1.901 $\chi^2$/NDF: 264.2/34

In: 0.947+/-0.802 $\chi^2$/NDF:429.7/21

Out: 6.989+/-0.788 $\chi^2$/NDF:191.3/25

All: 4.020+/-0.562 $\chi^2$/NDF: 649.9/47

# diff_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 7187.494+/-2.009 $\chi^2$/NDF: 1705887.0/15

Left Out: 1914.532+/-0.586 $\chi^2$/NDF:19065.6/6

Right Out: 6459.323+/-1.808 $\chi^2$/NDF: 2276337.9/18

Left In: 1915.412+/-0.591 $\chi^2$/NDF:21386.0/5

Left: 1914.968+/-0.416 $\chi^2$/NDF: 40452.7/12

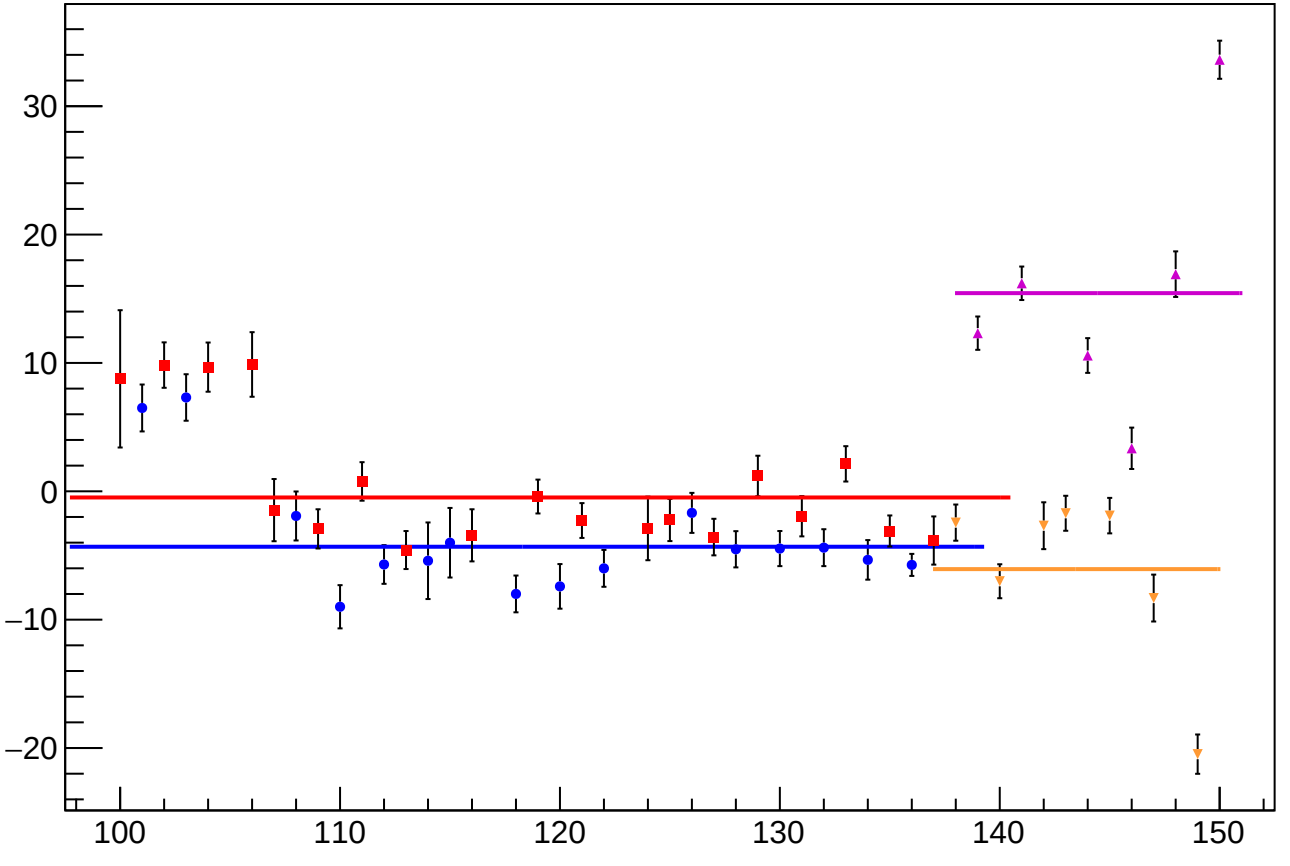
Right: 6785.150+/-1.344 $\chi^2$/NDF: 4054781.5/34

In: 2334.939+/-0.567 $\chi^2$/NDF:8063026.3/21

Out: 2346.192+/-0.557 $\chi^2$/NDF:8012082.7/25

All: 2340.661+/-0.397 $\chi^2$/NDF: 16075309.4/4

# diff_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: -4.319+/-0.380 $\chi^2$/NDF: 103.7/15

Left Out: -6.062+/-0.562 $\chi^2$/NDF:120.0/6

Right Out: -0.481+/-0.379 $\chi^2$/NDF: 117.2/18

Left In: 15.437+/-0.589 $\chi^2$/NDF:225.8/5

Left: 4.190+/-0.407 $\chi^2$/NDF: 1043.0/12

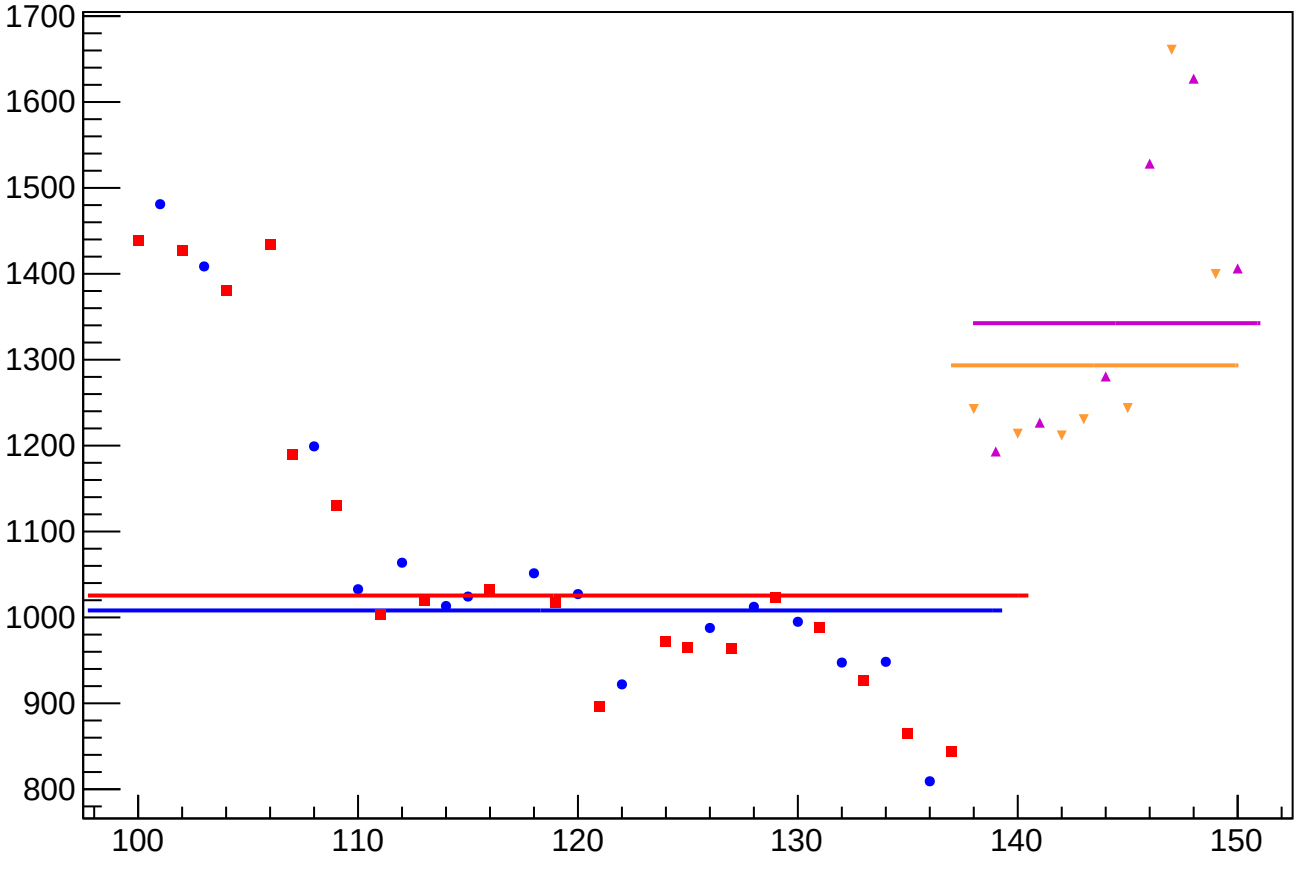
Right: -2.394+/-0.268 $\chi^2$/NDF: 272.1/34

In: 1.483+/-0.319 $\chi^2$/NDF:1124.3/21

Out: -2.222+/-0.314 $\chi^2$/NDF:305.0/25

All: -0.400+/-0.224 $\chi^2$/NDF: 1497.8/47

# diff_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 1008.116+/-0.269 $\chi^2$/NDF: 378836.2/15

Left Out: 1293.417+/-0.398 $\chi^2$/NDF:111203.5/6

Right Out: 1025.486+/-0.268 $\chi^2$/NDF: 345991.2/18

Left In: 1342.557+/-0.416 $\chi^2$/NDF:128081.8/5

Left: 1316.849+/-0.288 $\chi^2$/NDF: 246569.5/12

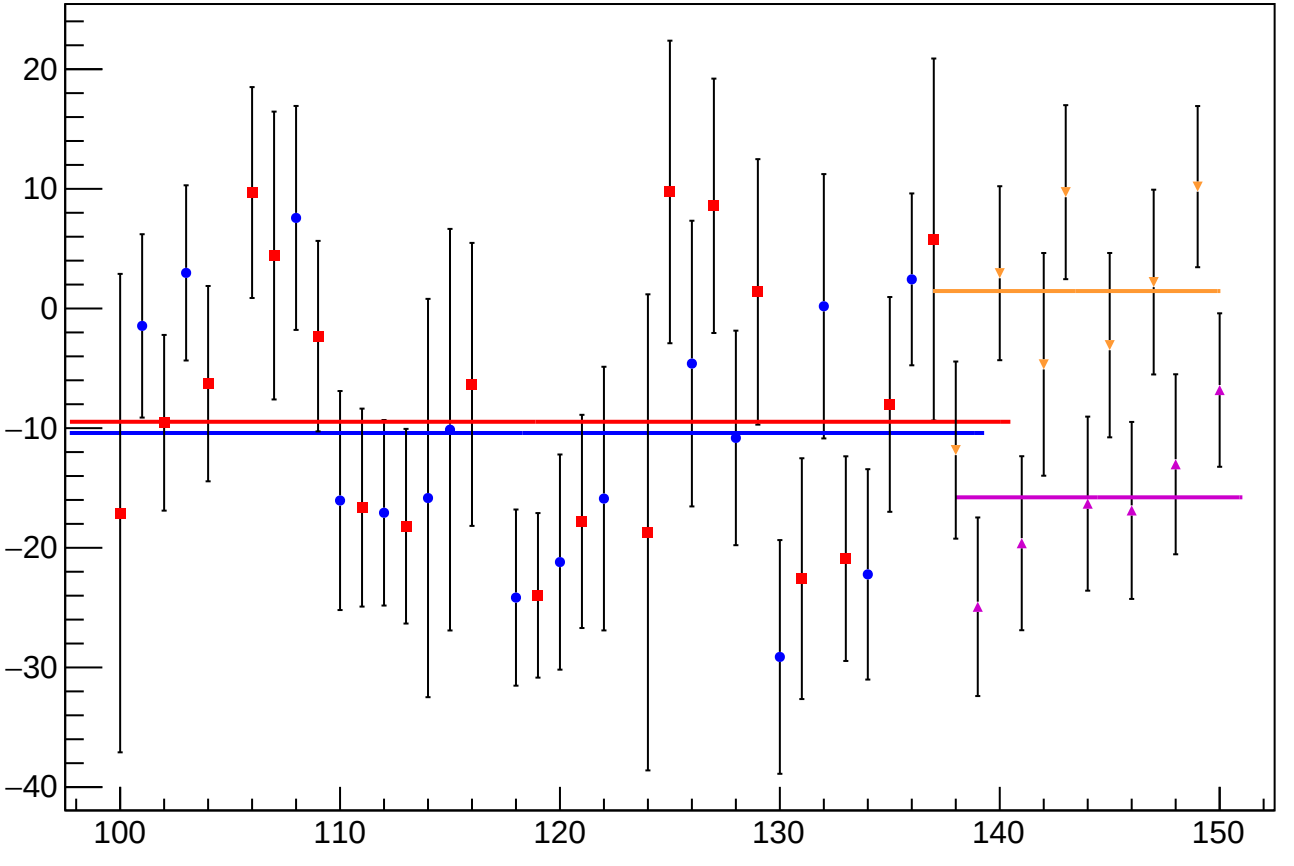
Right: 1016.826+/-0.190 $\chi^2$/NDF: 726925.8/34

In: 1106.329+/-0.226 $\chi^2$/NDF:962474.1/21

Out: 1109.085+/-0.222 $\chi^2$/NDF:769631.2/25

All: 1107.729+/-0.158 $\chi^2$/NDF: 1732181.1/47

# diff_bpm0l05X_mean vs Slug, Sign Corrected




Right In: -10.404+/-2.280 $\chi^2$/NDF: 24.6/15

Left Out: 1.458+/-2.848 $\chi^2$/NDF:7.0/6

Right Out: -9.467+/-2.191 $\chi^2$/NDF: 25.4/18

Left In: -15.781+/-2.936 $\chi^2$/NDF:3.9/5

Left: -6.900+/-2.044 $\chi^2$/NDF: 28.7/12

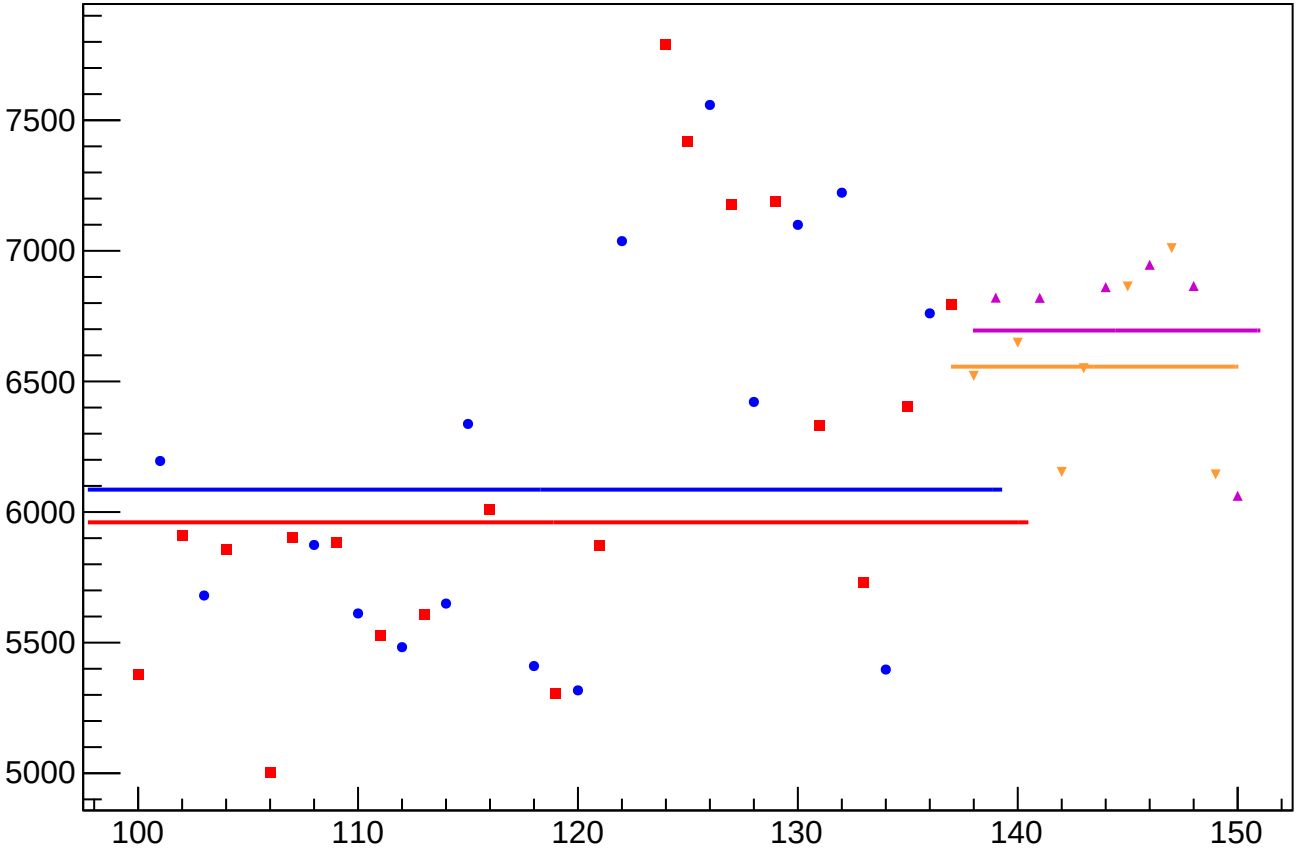
Right: -9.917+/-1.580 $\chi^2$/NDF: 50.1/34

In: -12.427+/-1.801 $\chi^2$/NDF:30.6/21

Out: -5.405+/-1.736 $\chi^2$/NDF:41.6/25

All: -8.788+/-1.250 $\chi^2$/NDF: 80.1/47

# diff_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 6085.873+/-1.612 $\chi^2$/NDF: 179118.8/15

Left Out: 6556.634+/-2.014 $\chi^2$/NDF:21703.9/6

Right Out: 5960.613+/-1.549 $\chi^2$/NDF: 162772.6/18

Left In: 6695.008+/-2.076 $\chi^2$/NDF:25015.5/5

Left: 6623.717+/-1.445 $\chi^2$/NDF: 49008.5/12

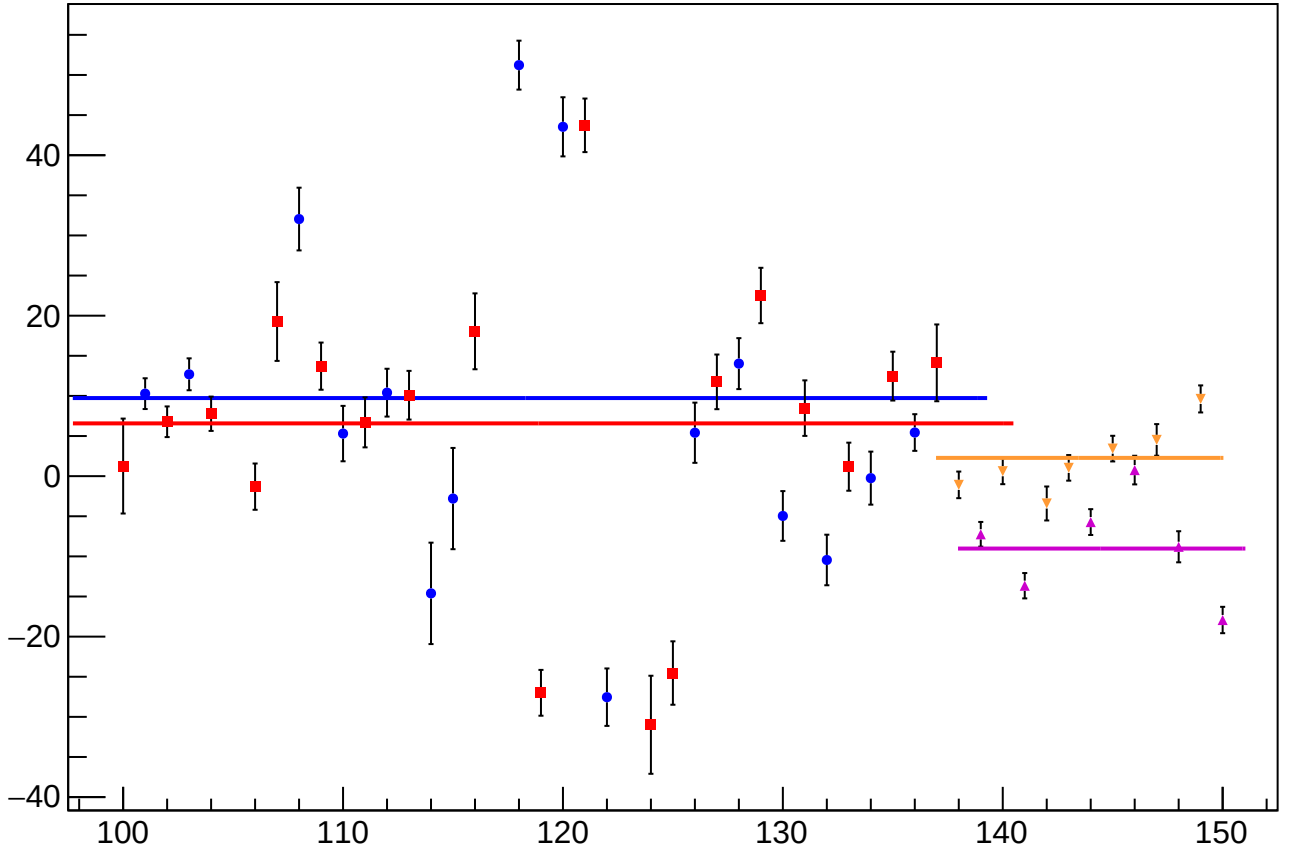
Right: 6020.747+/-1.117 $\chi^2$/NDF: 345029.9/34

In: 6315.049+/-1.273 $\chi^2$/NDF:257842.1/21

Out: 6182.216+/-1.228 $\chi^2$/NDF:239509.3/25

All: 6246.221+/-0.884 $\chi^2$/NDF: 502990.5/47

# diff_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 9.733+/-0.755 $\chi^2$/NDF: 512.4/15

Left Out: 2.276+/-0.650 $\chi^2$/NDF:33.8/6

Right Out: 6.576+/-0.730 $\chi^2$/NDF: 423.8/18

Left In: -9.024+/-0.680 $\chi^2$/NDF:73.6/5

Left: -3.119+/-0.470 $\chi^2$/NDF: 251.5/12

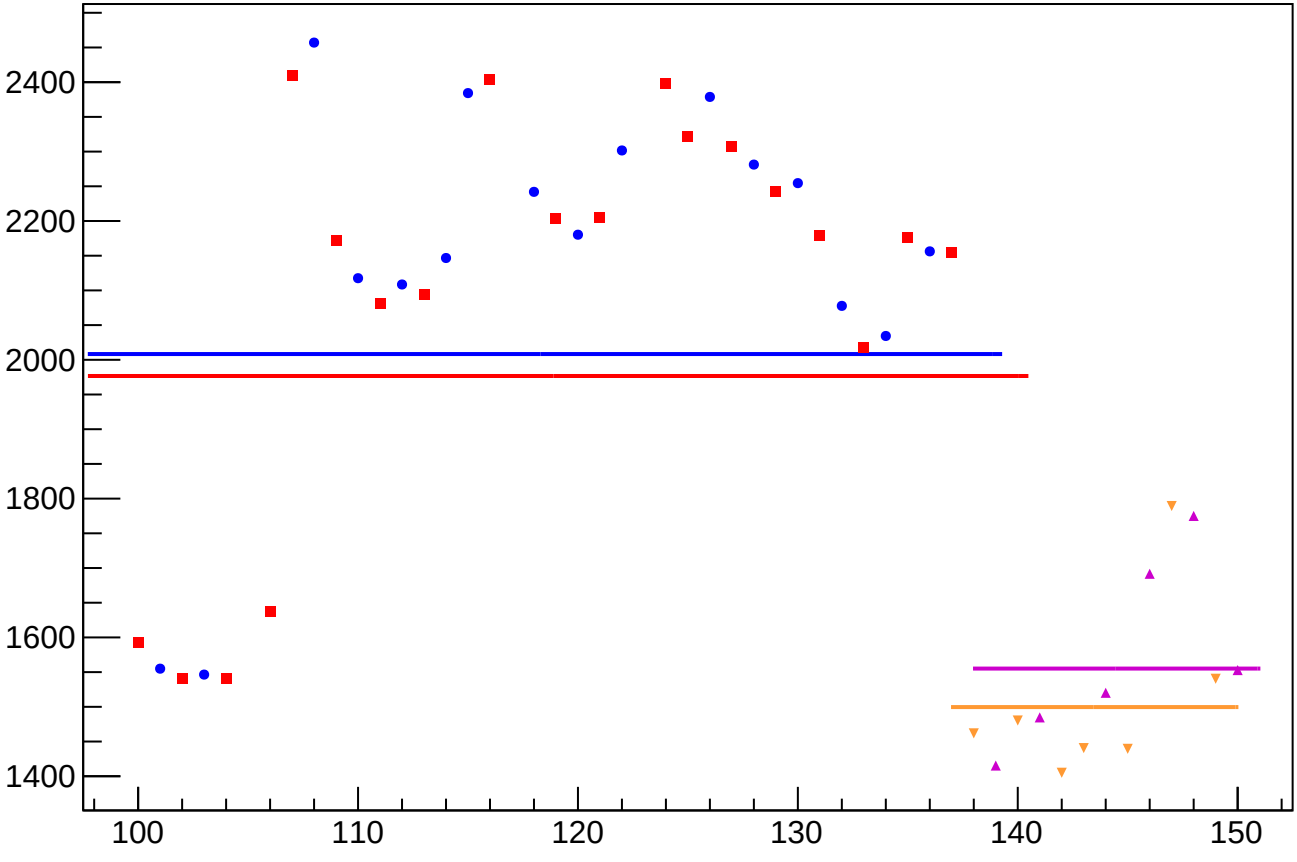
Right: 8.102+/-0.525 $\chi^2$/NDF: 945.2/34

In: -0.617+/-0.505 $\chi^2$/NDF:926.6/21

Out: 4.178+/-0.486 $\chi^2$/NDF:476.9/25

All: 1.876+/-0.350 $\chi^2$/NDF: 1450.2/47

# diff_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 2008.296+/-0.534 $\chi^2$/NDF: 344387.2/15

Left Out: 1499.637+/-0.460 $\chi^2$/NDF:55363.8/6

Right Out: 1976.677+/-0.516 $\chi^2$/NDF: 365375.1/18

Left In: 1555.118+/-0.481 $\chi^2$/NDF:58867.7/5

Left: 1526.125+/-0.332 $\chi^2$/NDF: 121180.7/12

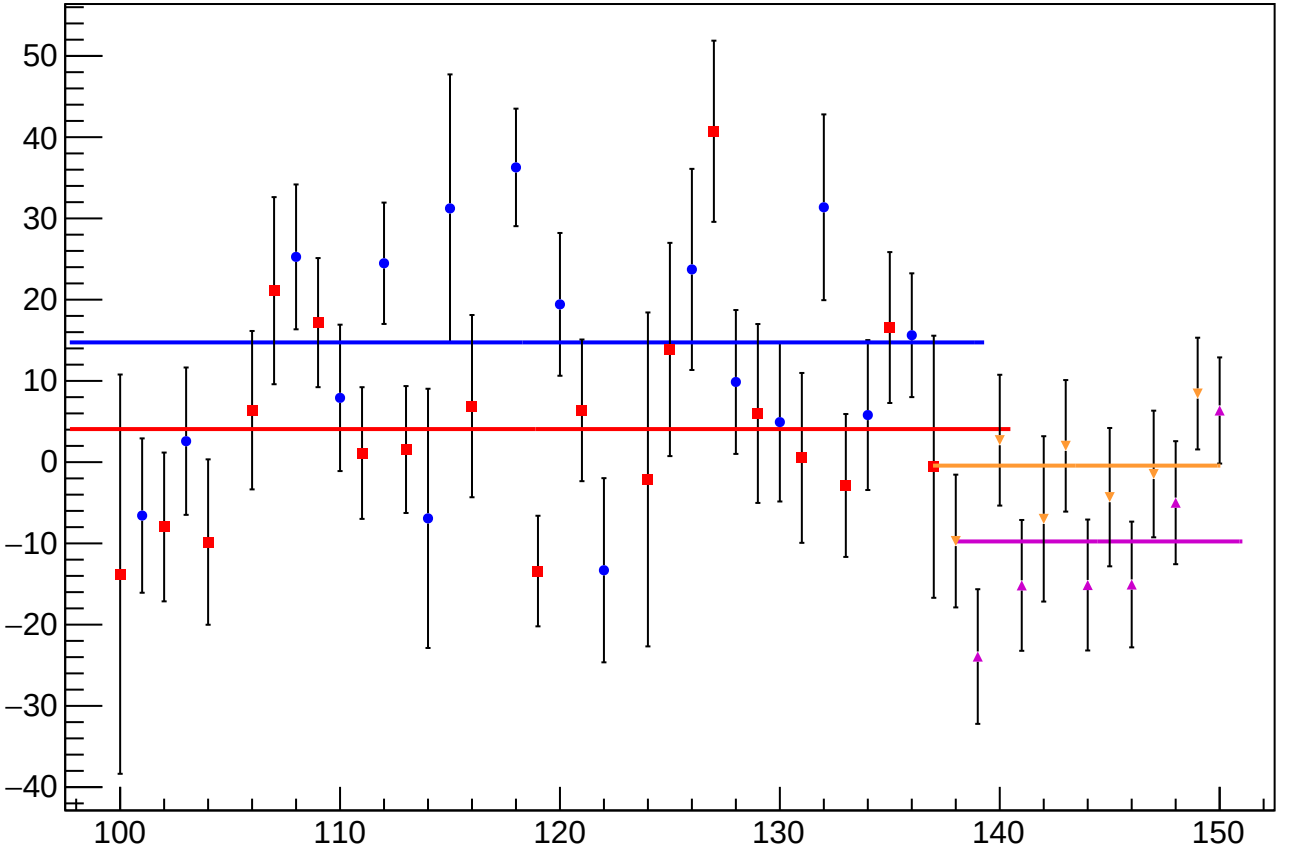
Right: 1991.963+/-0.371 $\chi^2$/NDF: 711574.8/34

In: 1758.241+/-0.357 $\chi^2$/NDF:800928.2/21

Out: 1710.615+/-0.343 $\chi^2$/NDF:896654.5/25

All: 1733.481+/-0.248 $\chi^2$/NDF: 1706815.8/47

# diff_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 14.739+/-2.358 $\chi^2$/NDF: 33.5/15

Left Out: -0.426+/-3.061 $\chi^2$/NDF:3.8/6

Right Out: 4.072+/-2.274 $\chi^2$/NDF: 30.2/18

Left In: -9.760+/-3.117 $\chi^2$/NDF:10.8/5

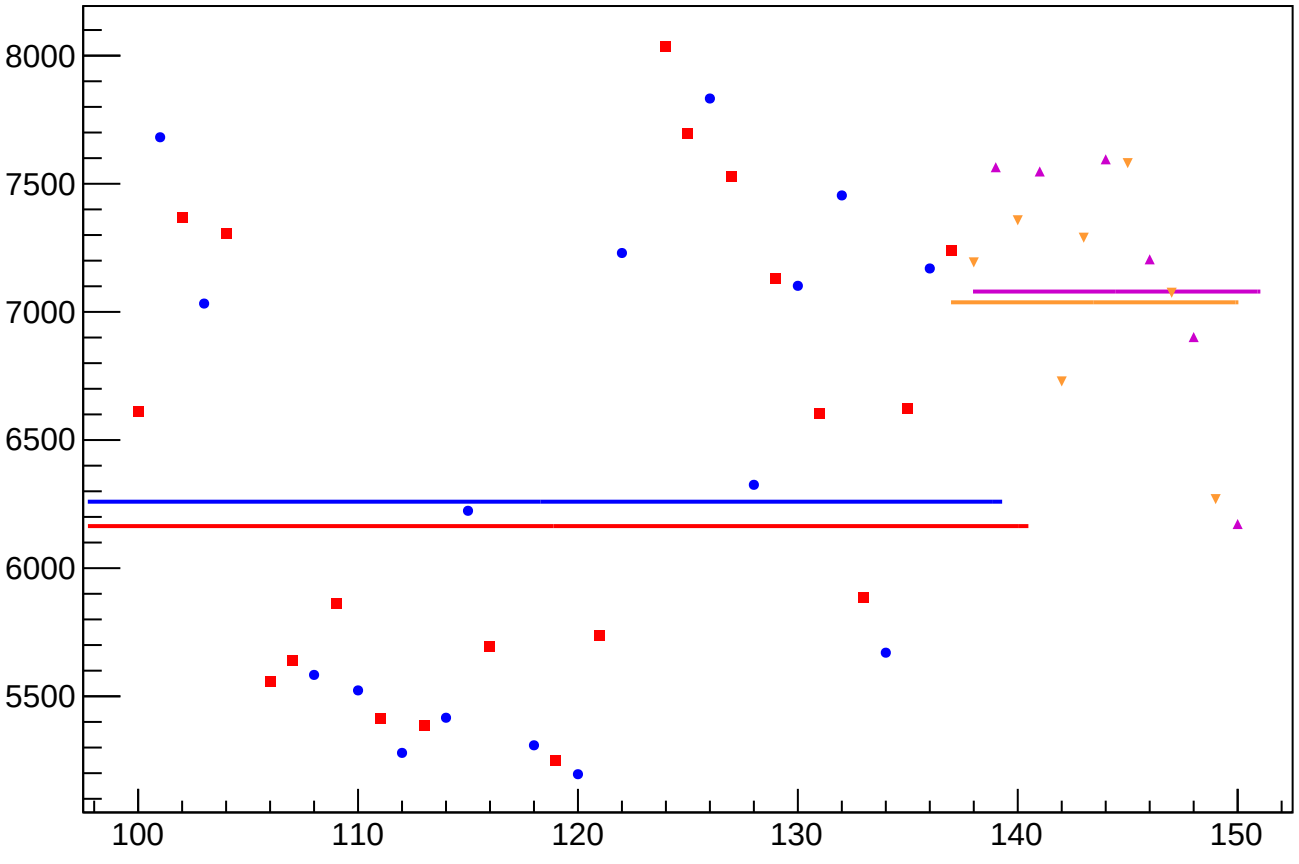
Left: -5.009+/-2.184 $\chi^2$/NDF: 19.2/12

Right: 9.212+/-1.637 $\chi^2$/NDF: 74.3/34

In: 5.822+/-1.880 $\chi^2$/NDF:83.6/21

Out: 2.473+/-1.825 $\chi^2$/NDF:35.4/25

All: 4.098+/-1.310 $\chi^2$/NDF: 120.6/47




Right In: 6259.416+/-1.667 $\chi^2$/NDF: 308606.8/15

Left Out: 7037.419+/-2.165 $\chi^2$/NDF:40799.9/6

Right Out: 6164.140+/-1.608 $\chi^2$/NDF: 265058.6/18

Left In: 7079.412+/-2.204 $\chi^2$/NDF:62009.3/5

Left: 7058.038+/-1.544 $\chi^2$/NDF: 102994.1/12

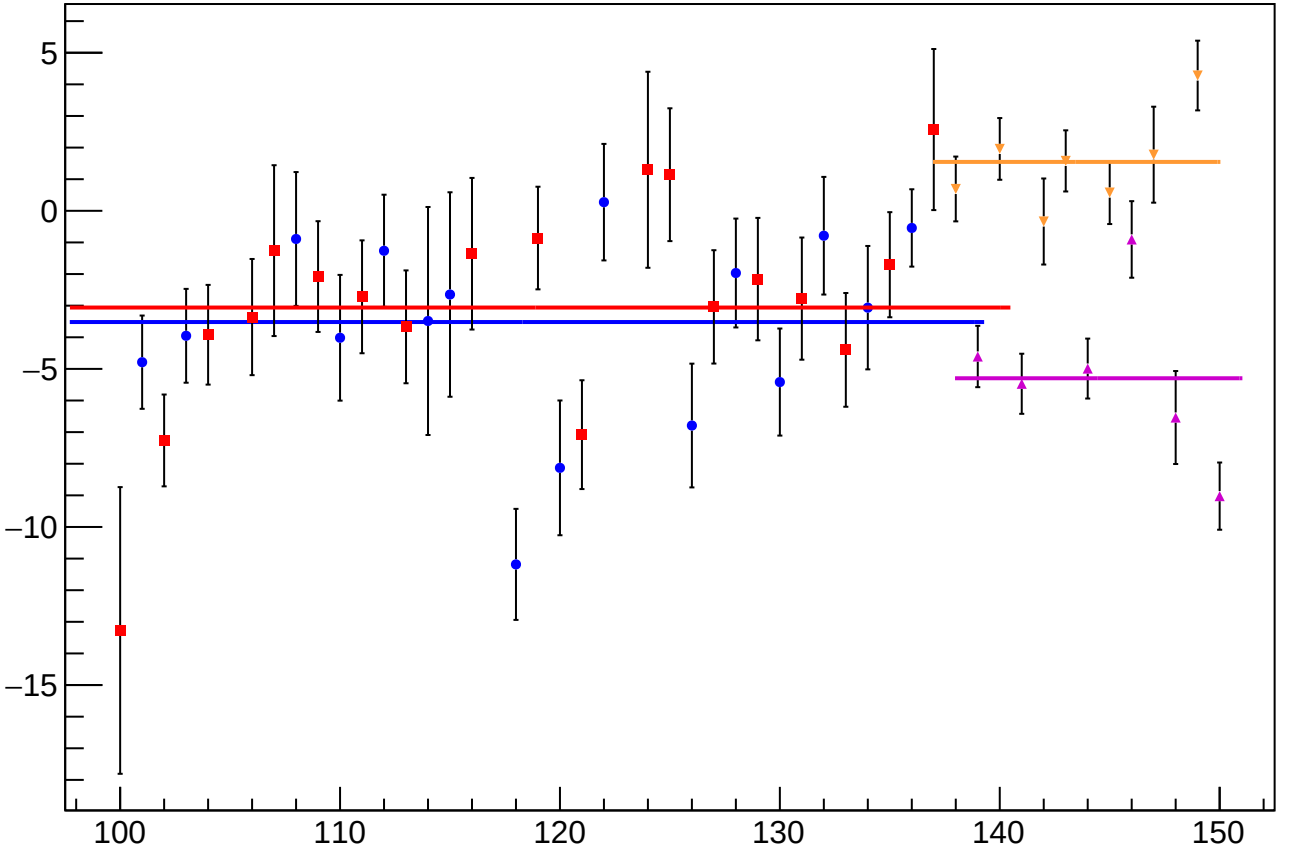
Right: 6210.053+/-1.157 $\chi^2$/NDF: 575357.6/34

In: 6557.870+/-1.330 $\chi^2$/NDF:458674.0/21

Out: 6474.644+/-1.291 $\chi^2$/NDF:410755.6/25

All: 6515.023+/-0.926 $\chi^2$/NDF: 871447.0/47

# diff_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -3.518+/-0.452 $\chi^2$/NDF: 45.1/15

Left Out: 1.547+/-0.413 $\chi^2$/NDF:9.9/6

Right Out: -3.059+/-0.438 $\chi^2$/NDF: 34.8/18

Left In: -5.296+/-0.434 $\chi^2$/NDF:26.8/5

Left: -1.702+/-0.299 $\chi^2$/NDF: 167.4/12

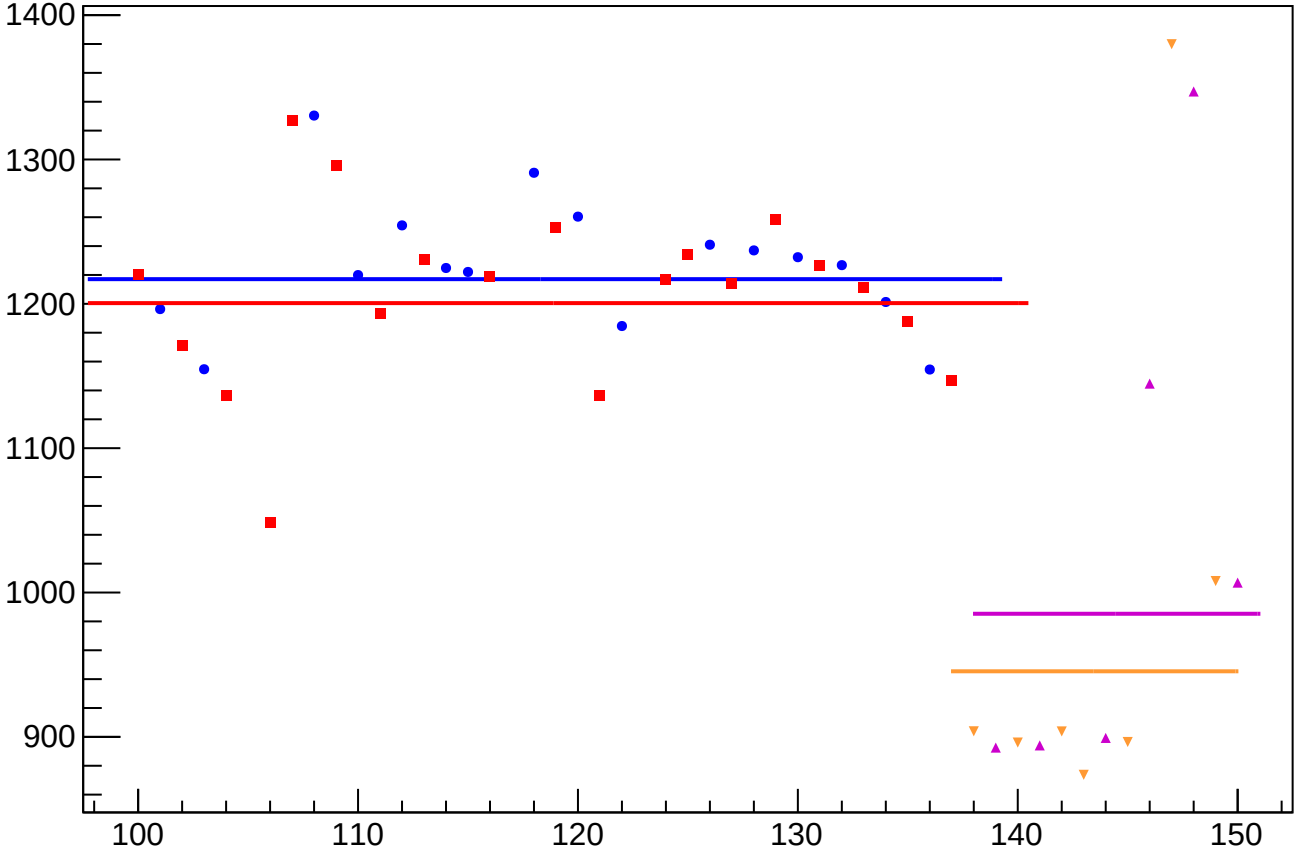
Right: -3.281+/-0.315 $\chi^2$/NDF: 80.4/34

In: -4.444+/-0.313 $\chi^2$/NDF:79.9/21

Out: -0.616+/-0.300 $\chi^2$/NDF:103.3/25

All: -2.451+/-0.217 $\chi^2$/NDF: 261.0/47

# diff_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 1217.094+/-0.320 $\chi^2$/NDF: 21686.7/15

Left Out: 945.433+/-0.292 $\chi^2$/NDF:196359.0/6

Right Out: 1200.497+/-0.310 $\chi^2$/NDF: 37654.3/18

Left In: 985.290+/-0.307 $\chi^2$/NDF:209710.2/5

Left: 964.355+/-0.211 $\chi^2$/NDF: 414933.1/12

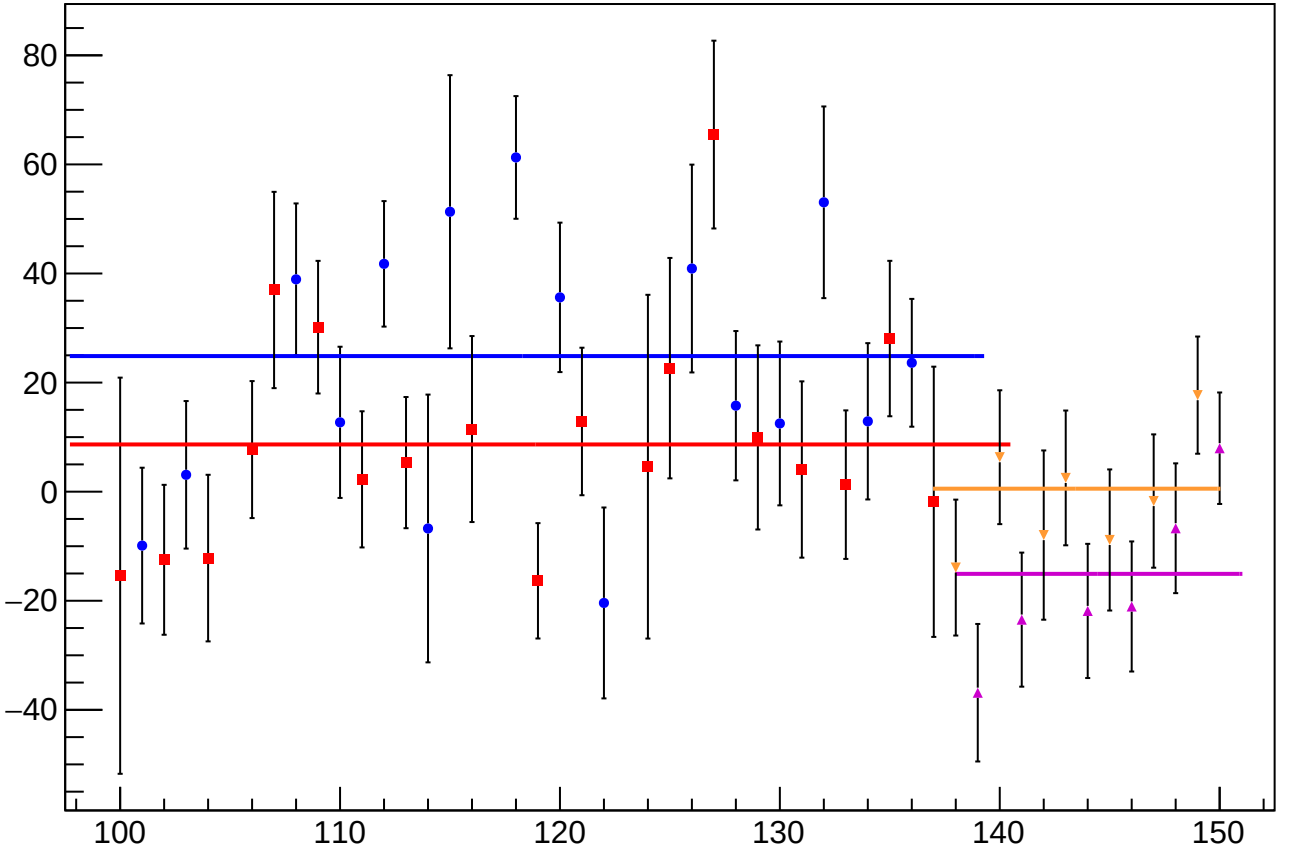
Right: 1208.533+/-0.223 $\chi^2$/NDF: 60729.4/34

In: 1096.351+/-0.221 $\chi^2$/NDF:504890.9/21

Out: 1065.230+/-0.212 $\chi^2$/NDF:593137.1/25

All: 1080.144+/-0.153 $\chi^2$/NDF: 1108314.9/47

# diff_bpm0l07X_mean vs Slug, Sign Corrected




Right In: 24.860+/-3.628 $\chi^2$/NDF: 38.1/15

Left Out: 0.548+/-4.707 $\chi^2$/NDF:5.0/6

Right Out: 8.658+/-3.454 $\chi^2$/NDF: 30.1/18

Left In: -15.069+/-4.812 $\chi^2$/NDF:9.6/5

Left: -7.090+/-3.365 $\chi^2$/NDF: 20.0/12

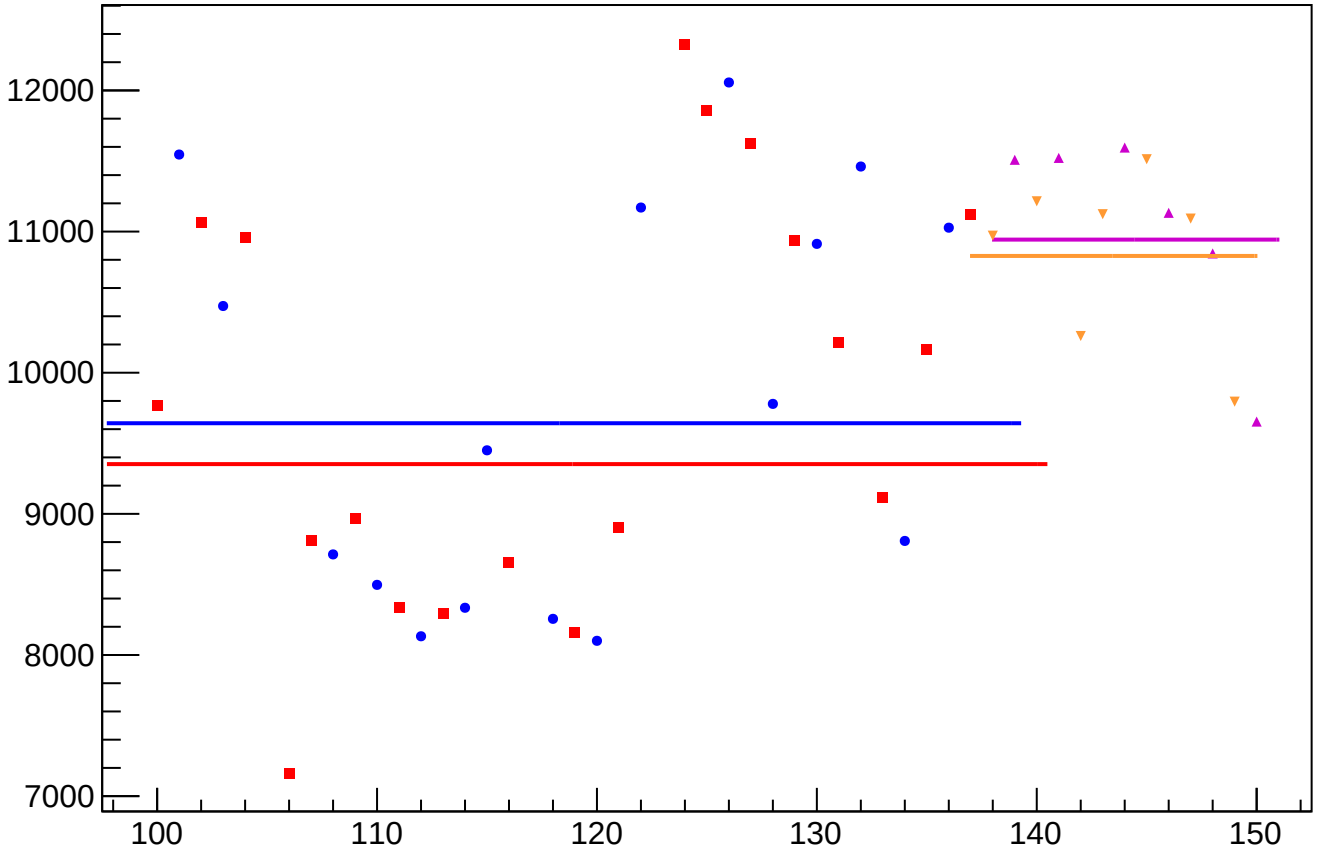
Right: 16.361+/-2.501 $\chi^2$/NDF: 78.7/34

In: 10.388+/-2.897 $\chi^2$/NDF:91.6/21

Out: 5.820+/-2.785 $\chi^2$/NDF:37.1/25

All: 8.014+/-2.008 $\chi^2$/NDF: 130.0/47

# diff_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 9642.075+/-2.565 $\chi^2$/NDF: 279657.4/15

Left Out: 10827.326+/-3.329 $\chi^2$/NDF:31099.8/6

Right Out: 9352.503+/-2.442 $\chi^2$/NDF: 301779.3/18

Left In: 10943.080+/-3.402 $\chi^2$/NDF:46560.5/5

Left: 10883.936+/-2.379 $\chi^2$/NDF: 78251.7/12

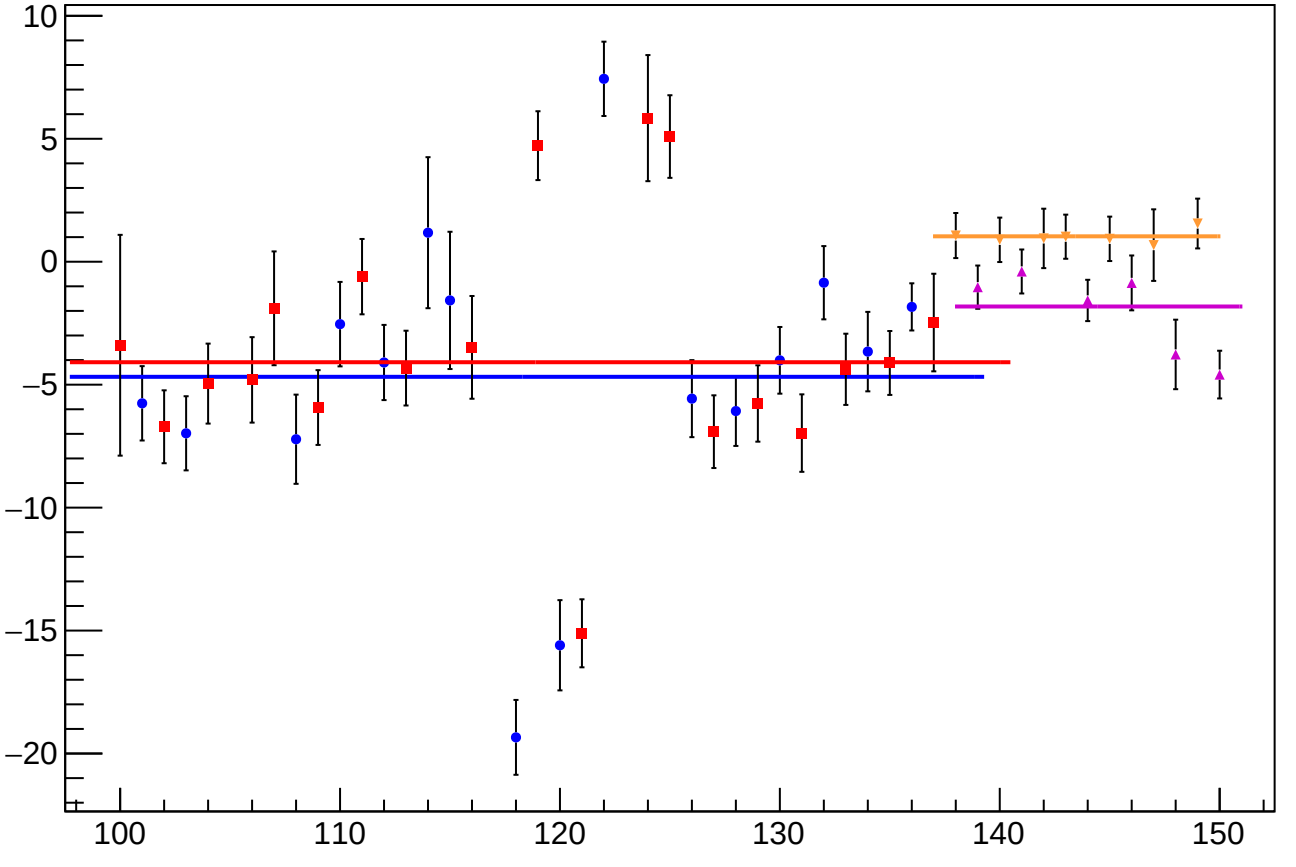
Right: 9490.167+/-1.769 $\chi^2$/NDF: 588120.8/34

In: 10113.623+/-2.048 $\chi^2$/NDF:419438.2/21

Out: 9868.569+/-1.969 $\chi^2$/NDF:460495.6/25

All: 9986.260+/-1.420 $\chi^2$/NDF: 887372.5/47

# diff_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: -4.681+/-0.386 $\chi^2$/NDF: 221.2/15

Left Out: 1.033+/-0.378 $\chi^2$/NDF:0.4/6

Right Out: -4.087+/-0.376 $\chi^2$/NDF: 168.1/18

Left In: -1.821+/-0.398 $\chi^2$/NDF:14.2/5

Left: -0.320+/-0.274 $\chi^2$/NDF: 41.7/12

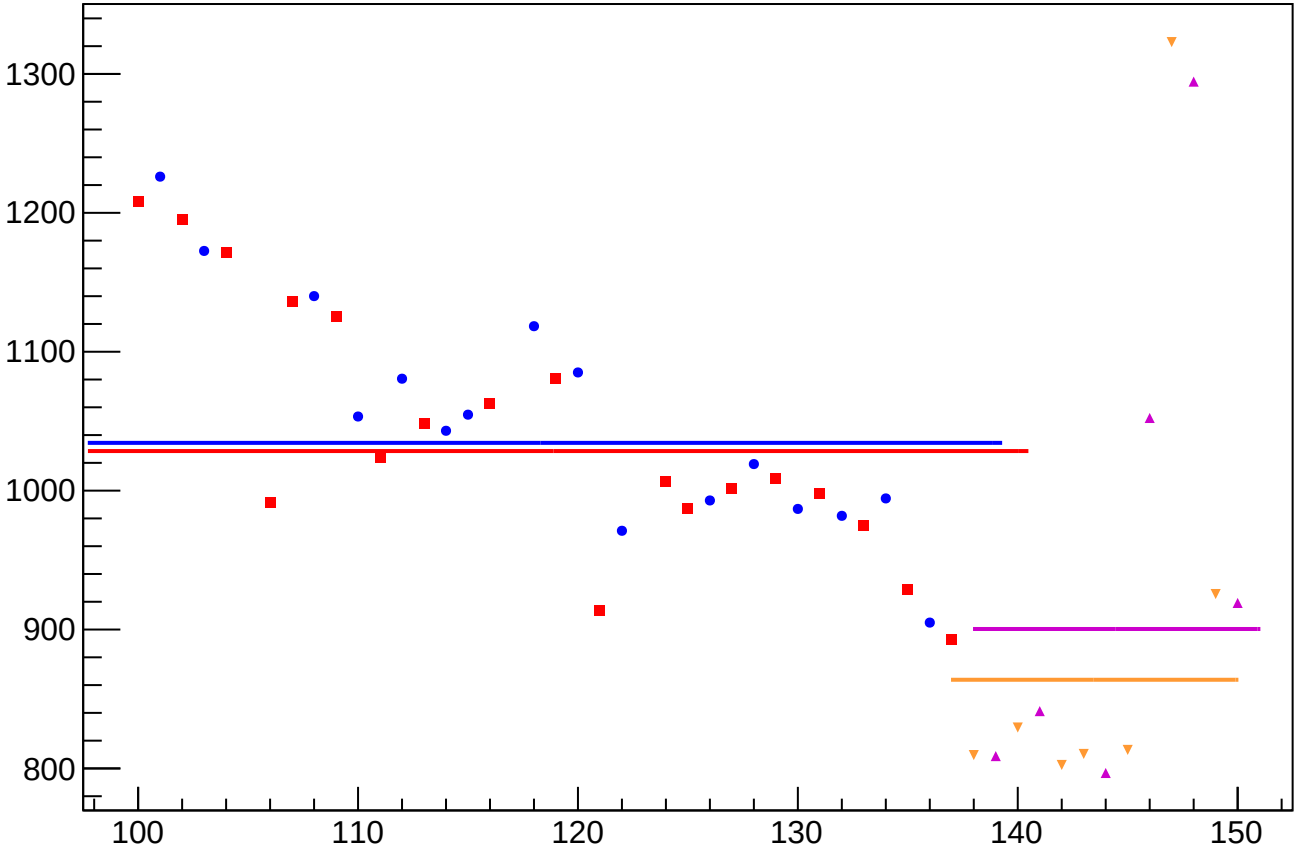
Right: -4.376+/-0.269 $\chi^2$/NDF: 390.5/34

In: -3.294+/-0.277 $\chi^2$/NDF:262.0/21

Out: -1.535+/-0.267 $\chi^2$/NDF:260.7/25

All: -2.381+/-0.192 $\chi^2$/NDF: 543.7/47

# diff_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 1034.402+/-0.273 $\chi^2$/NDF: 113278.6/15

Left Out: 863.842+/-0.267 $\chi^2$/NDF:234848.3/6

Right Out: 1028.501+/-0.266 $\chi^2$/NDF: 101624.8/18

Left In: 900.396+/-0.281 $\chi^2$/NDF:254228.6/5

Left: 881.175+/-0.194 $\chi^2$/NDF: 497968.4/12

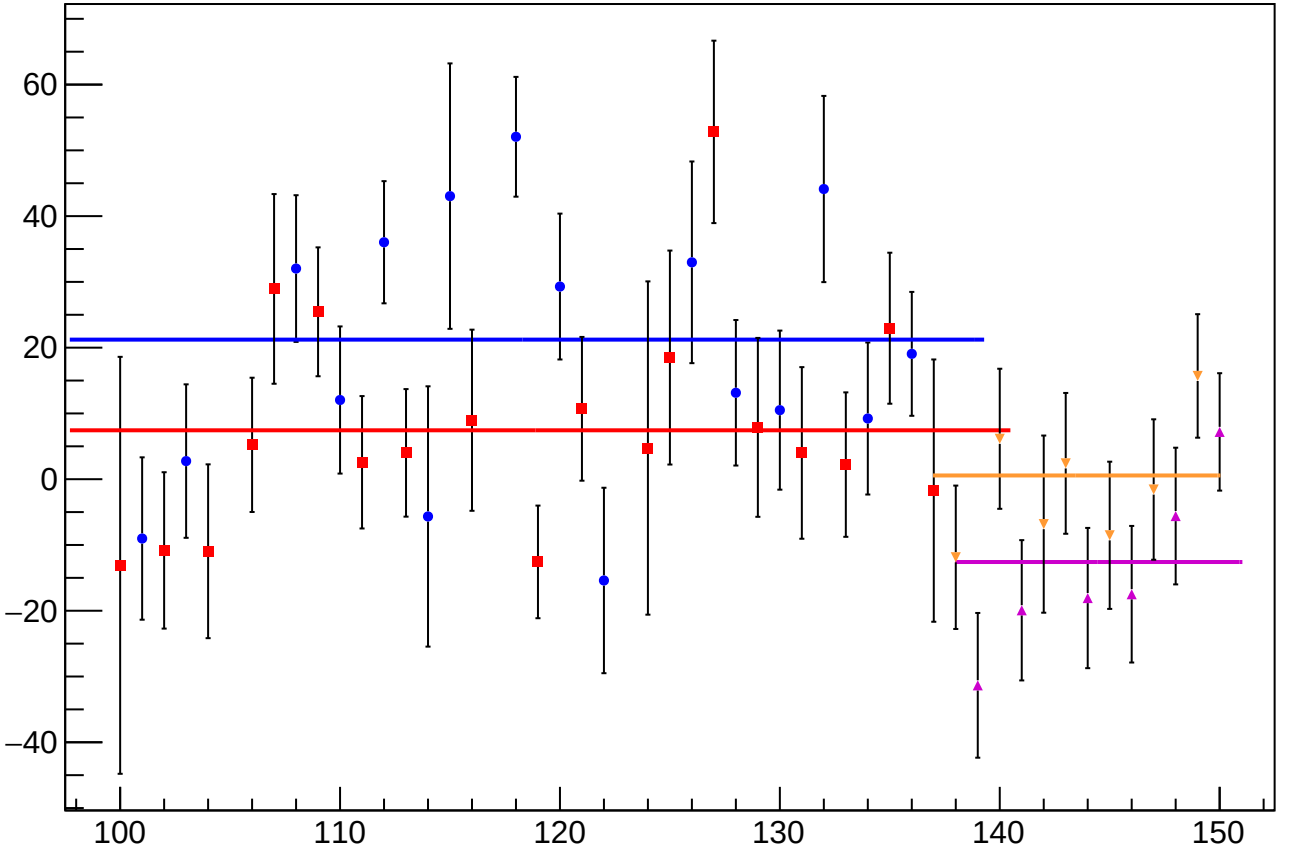
Right: 1031.379+/-0.190 $\chi^2$/NDF: 215143.2/34

In: 969.409+/-0.196 $\chi^2$/NDF:484549.3/21

Out: 946.417+/-0.188 $\chi^2$/NDF:527283.6/25

All: 957.477+/-0.136 $\chi^2$/NDF: 1018991.7/47

# diff_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 21.222+/-2.952 $\chi^2$/NDF: 40.1/15

Left Out: 0.568+/-4.097 $\chi^2$/NDF:5.2/6

Right Out: 7.435+/-2.810 $\chi^2$/NDF: 29.8/18

Left In: -12.591+/-4.191 $\chi^2$/NDF:9.2/5

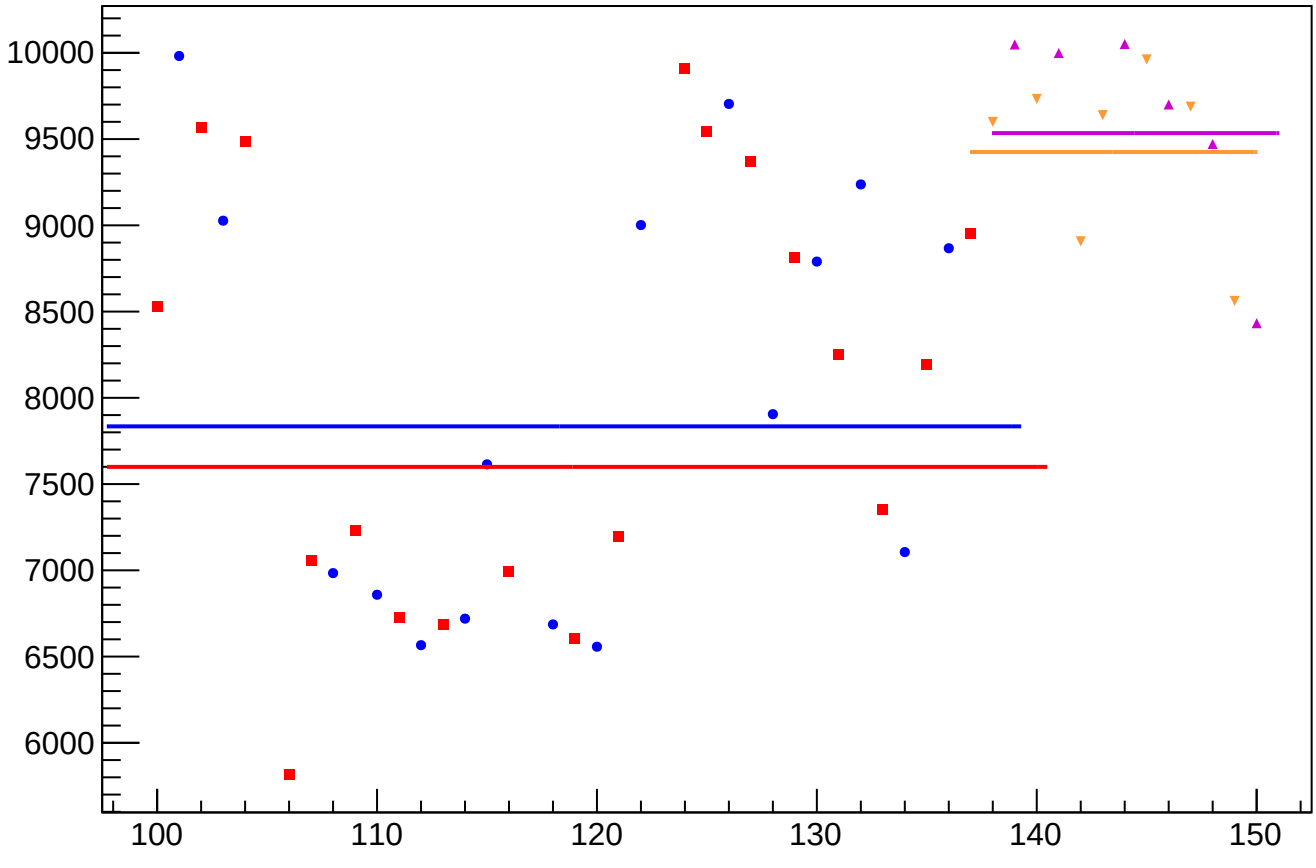
Left: -5.862+/-2.930 $\chi^2$/NDF: 19.5/12

Right: 13.990+/-2.035 $\chi^2$/NDF: 81.3/34

In: 10.011+/-2.413 $\chi^2$/NDF:92.8/21

Out: 5.238+/-2.318 $\chi^2$/NDF:36.9/25

All: 7.528+/-1.672 $\chi^2$/NDF: 131.8/47




Right In: 7834.618+/-2.087 $\chi^2$/NDF: 318089.6/15

Left Out: 9425.045+/-2.897 $\chi^2$/NDF:28644.4/6

Right Out: 7599.749+/-1.987 $\chi^2$/NDF: 344296.8/18

Left In: 9534.681+/-2.964 $\chi^2$/NDF:43922.3/5

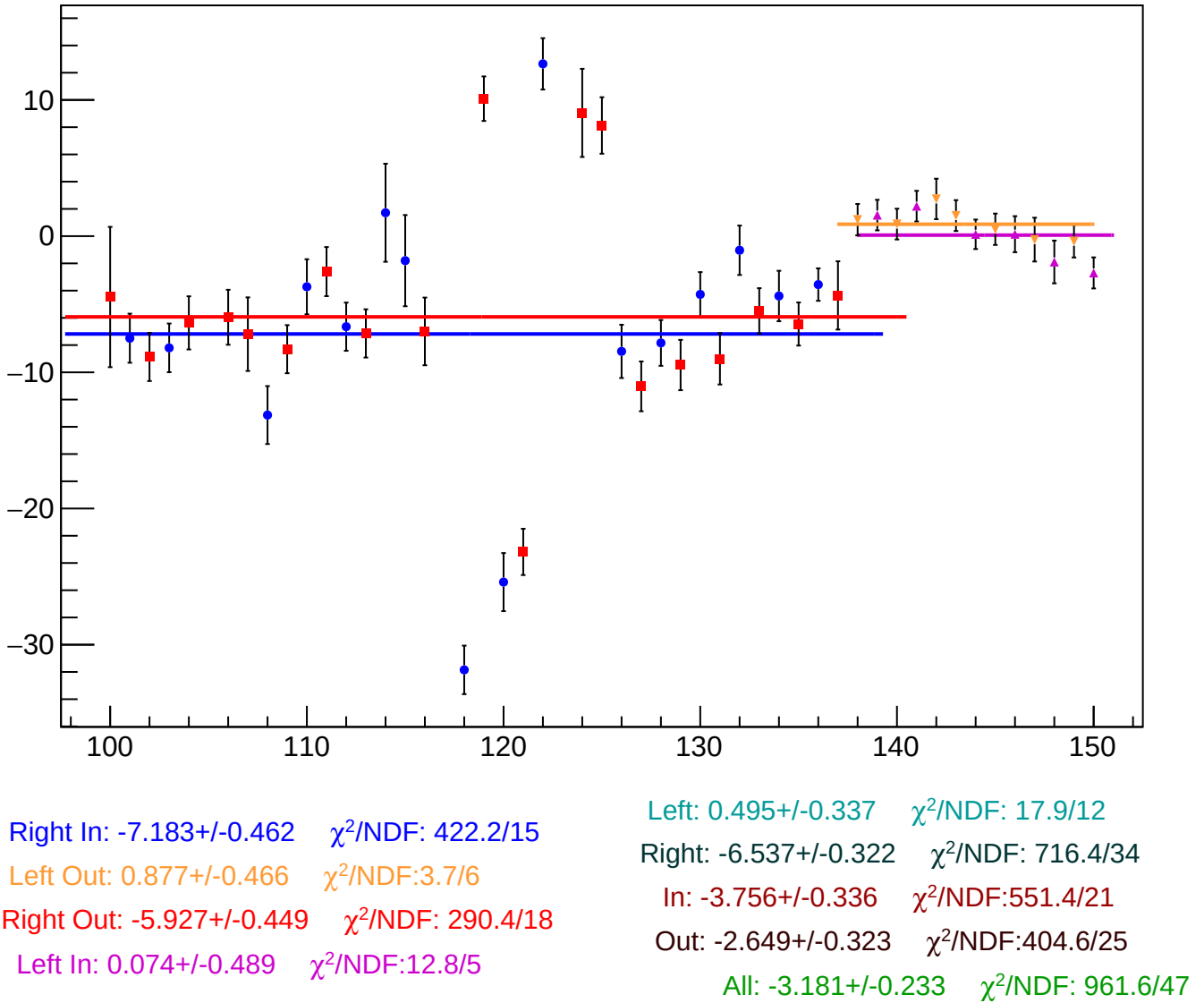
Left: 9478.621+/-2.072 $\chi^2$/NDF: 73266.6/12

Right: 7711.419+/-1.439 $\chi^2$/NDF: 669028.2/34

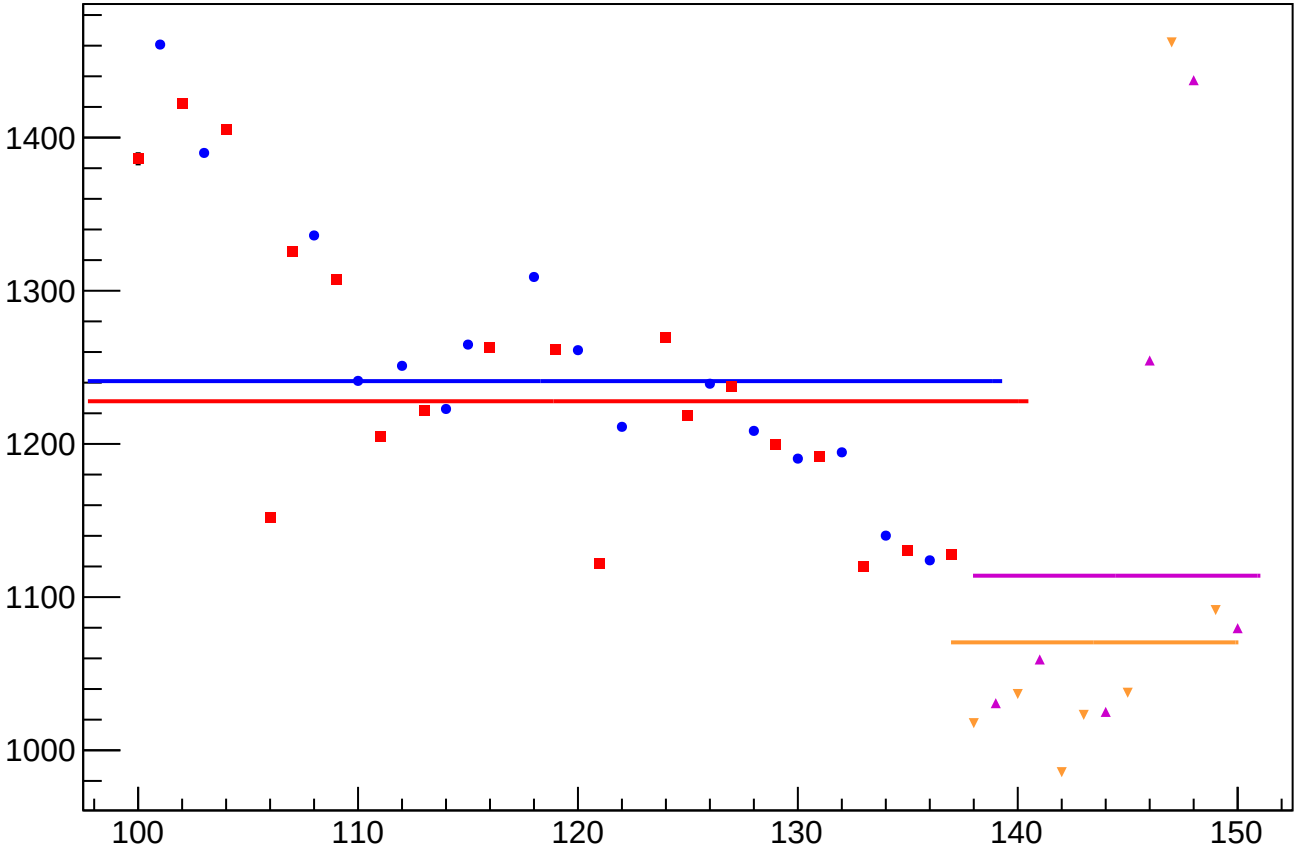
In: 8398.318+/-1.706 $\chi^2$/NDF:581985.1/21

Out: 8183.753+/-1.639 $\chi^2$/NDF:642885.0/25

All: 8286.693+/-1.182 $\chi^2$/NDF: 1233094.9/47


diff_bpm0l08Y_mean vs Slug, Sign Corrected
10
0
−10
−20
−30
100
110
120
130
140
150
Right In: -7.183+/-0.462 χ²/NDF: 422.2/15
Left Out: 0.877+/-0.466 χ²/NDF:3.7/6
Right Out: -5.927+/-0.449 χ²/NDF: 290.4/18
Left In: 0.074+/-0.489 χ²/NDF:12.8/5
Left: 0.495+/-0.337 χ²/NDF: 17.9/12
Right: -6.537+/-0.322 χ²/NDF: 716.4/34
In: -3.756+/-0.336 χ²/NDF:551.4/21
Out: -2.649+/-0.323 χ²/NDF:404.6/25
All: -3.181+/-0.233 χ²/NDF: 961.6/47

# diff_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 1241.007+/-0.327 $\chi^2$/NDF: 80653.5/15

Left Out: 1070.454+/-0.329 $\chi^2$/NDF:136879.9/6

Right Out: 1227.864+/-0.318 $\chi^2$/NDF: 82339.2/18

Left In: 1113.977+/-0.346 $\chi^2$/NDF:138607.2/5

Left: 1091.160+/-0.238 $\chi^2$/NDF: 283797.0/12

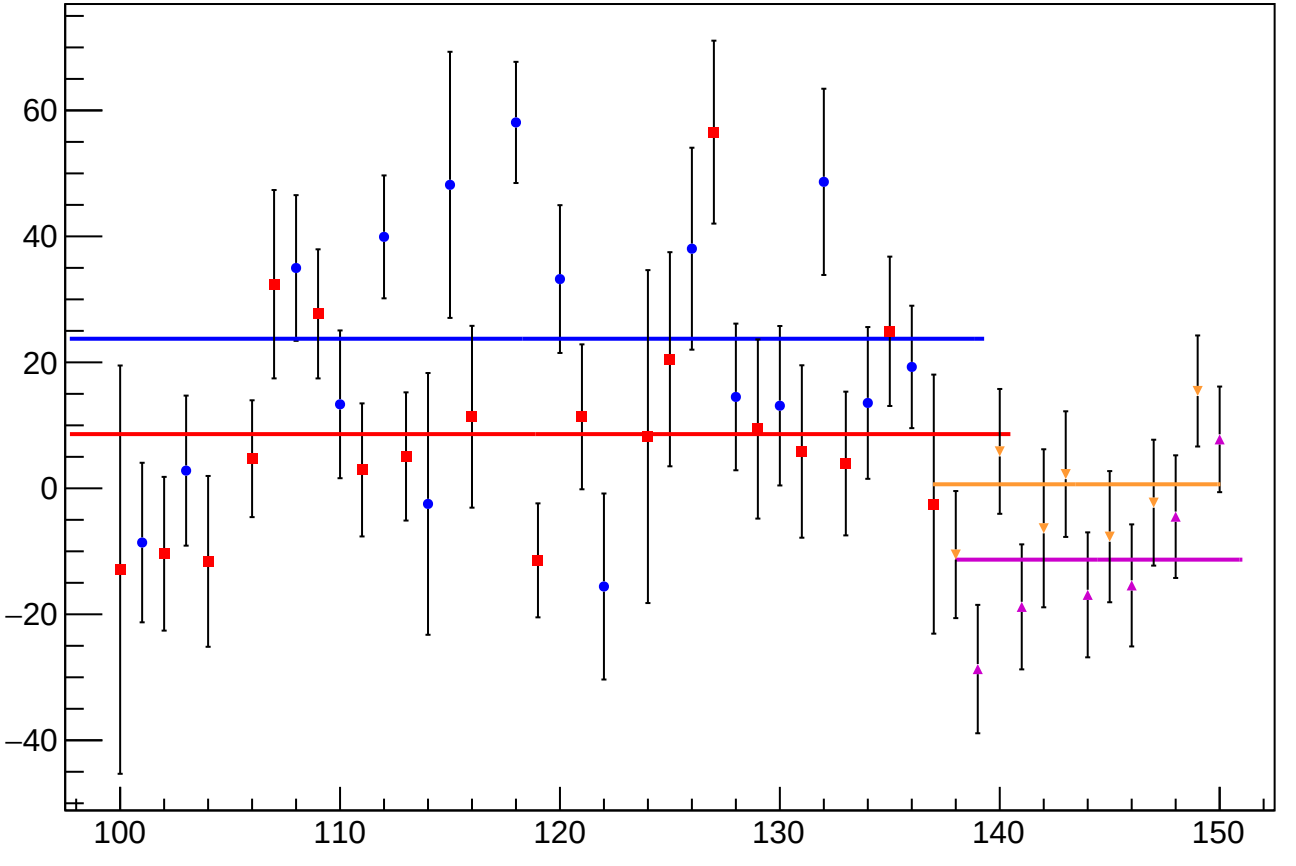
Right: 1234.245+/-0.228 $\chi^2$/NDF: 163824.2/34

In: 1181.034+/-0.238 $\chi^2$/NDF:290543.8/21

Out: 1152.008+/-0.229 $\chi^2$/NDF:337591.9/25

All: 1165.966+/-0.165 $\chi^2$/NDF: 635887.9/47

# diff_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 23.750+/-3.081 $\chi^2$/NDF: 43.4/15

Left Out: 0.643+/-3.820 $\chi^2$/NDF:5.4/6

Right Out: 8.609+/-2.899 $\chi^2$/NDF: 30.5/18

Left In: -11.321+/-3.911 $\chi^2$/NDF:9.7/5

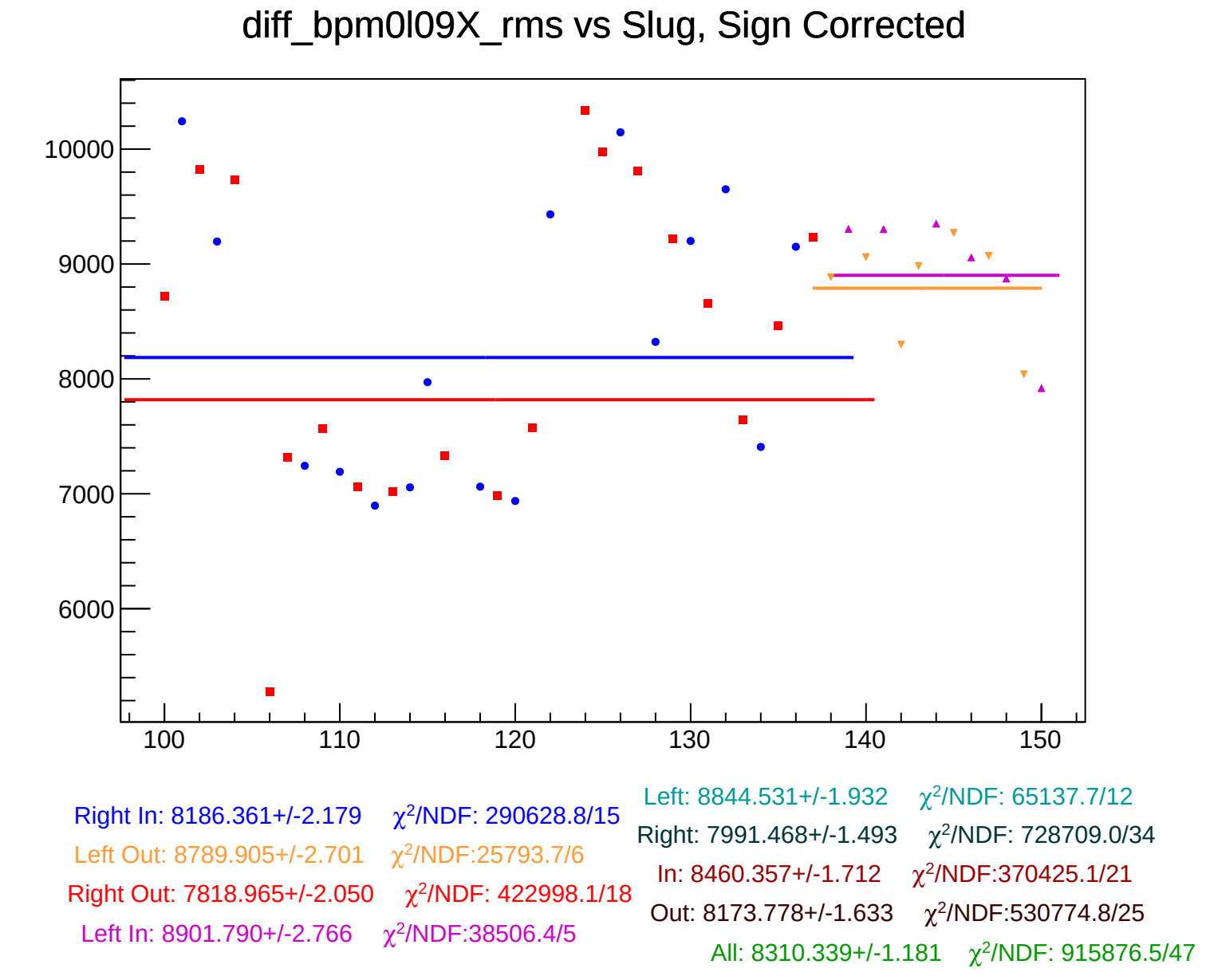
Left: -5.199+/-2.733 $\chi^2$/NDF: 19.8/12

Right: 15.718+/-2.111 $\chi^2$/NDF: 86.7/34

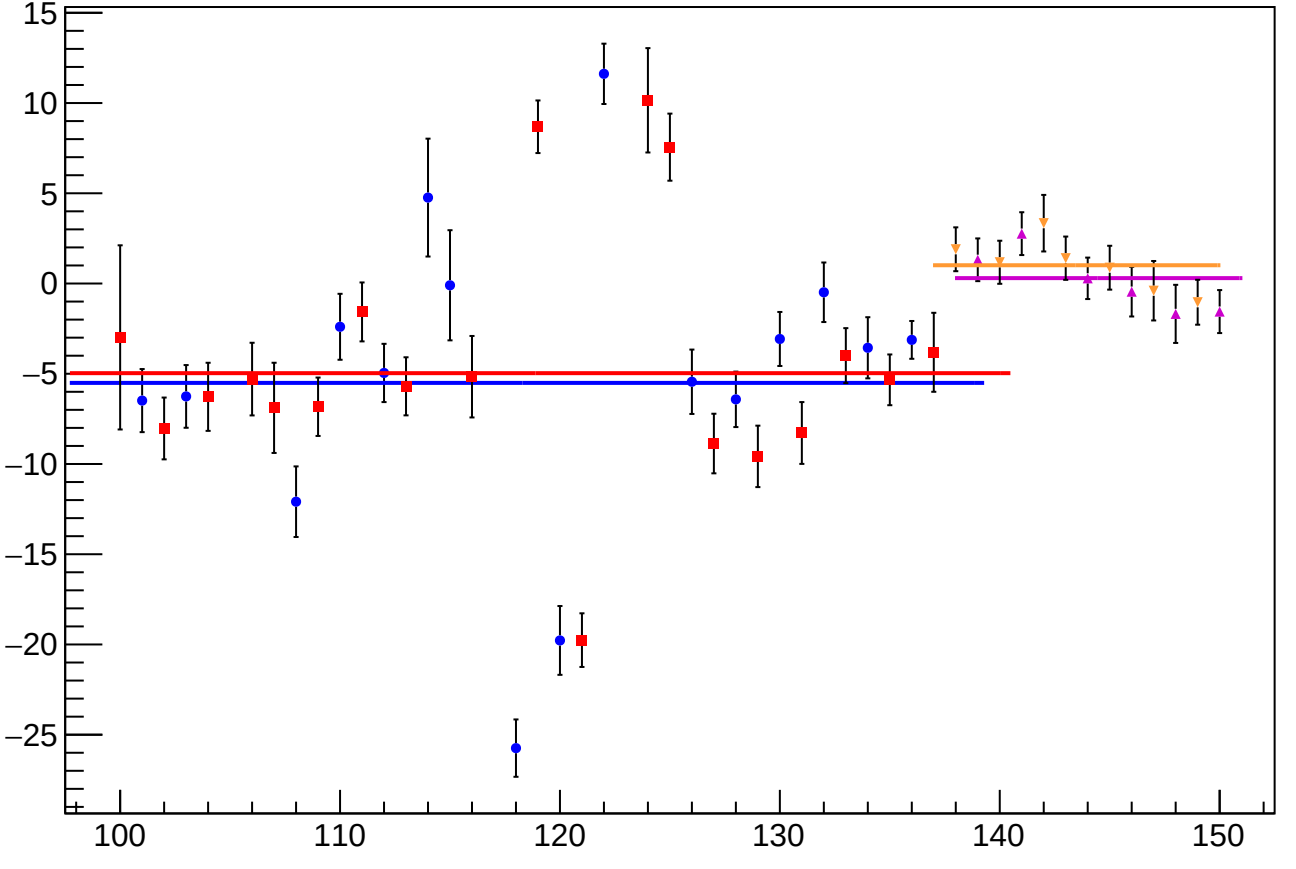
In: 10.318+/-2.420 $\chi^2$/NDF:102.7/21

Out: 5.698+/-2.309 $\chi^2$/NDF:38.6/25

All: 7.899+/-1.671 $\chi^2$/NDF: 143.2/47


diff_bpm0l09X_rms vs Slug, Sign Corrected
10000
9000
8000
7000
6000
100
110
120
130
140
150
Right In: 8186.361+/-2.179 χ²/NDF: 290628.8/15
Left Out: 8789.905+/-2.701 χ²/NDF:25793.7/6
Right Out: 7818.965+/-2.050 χ²/NDF: 422998.1/18
Left In: 8901.790+/-2.766 χ²/NDF:38506.4/5
Left: 8844.531+/-1.932 χ²/NDF: 65137.7/12
Right: 7991.468+/-1.493 χ²/NDF: 728709.0/34
In: 8460.357+/-1.712 χ²/NDF:370425.1/21
Out: 8173.778+/-1.633 χ²/NDF:530774.8/25
All: 8310.339+/-1.181 χ²/NDF: 915876.5/47

# diff_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: -5.506+/-0.421 $\chi^2$/NDF: 369.8/15

Left Out: 1.012+/-0.489 $\chi^2$/NDF:6.3/6

Right Out: -4.967+/-0.410 $\chi^2$/NDF: 287.3/18

Left In: 0.299+/-0.513 $\chi^2$/NDF:9.3/5

Left: 0.672+/-0.354 $\chi^2$/NDF: 16.6/12

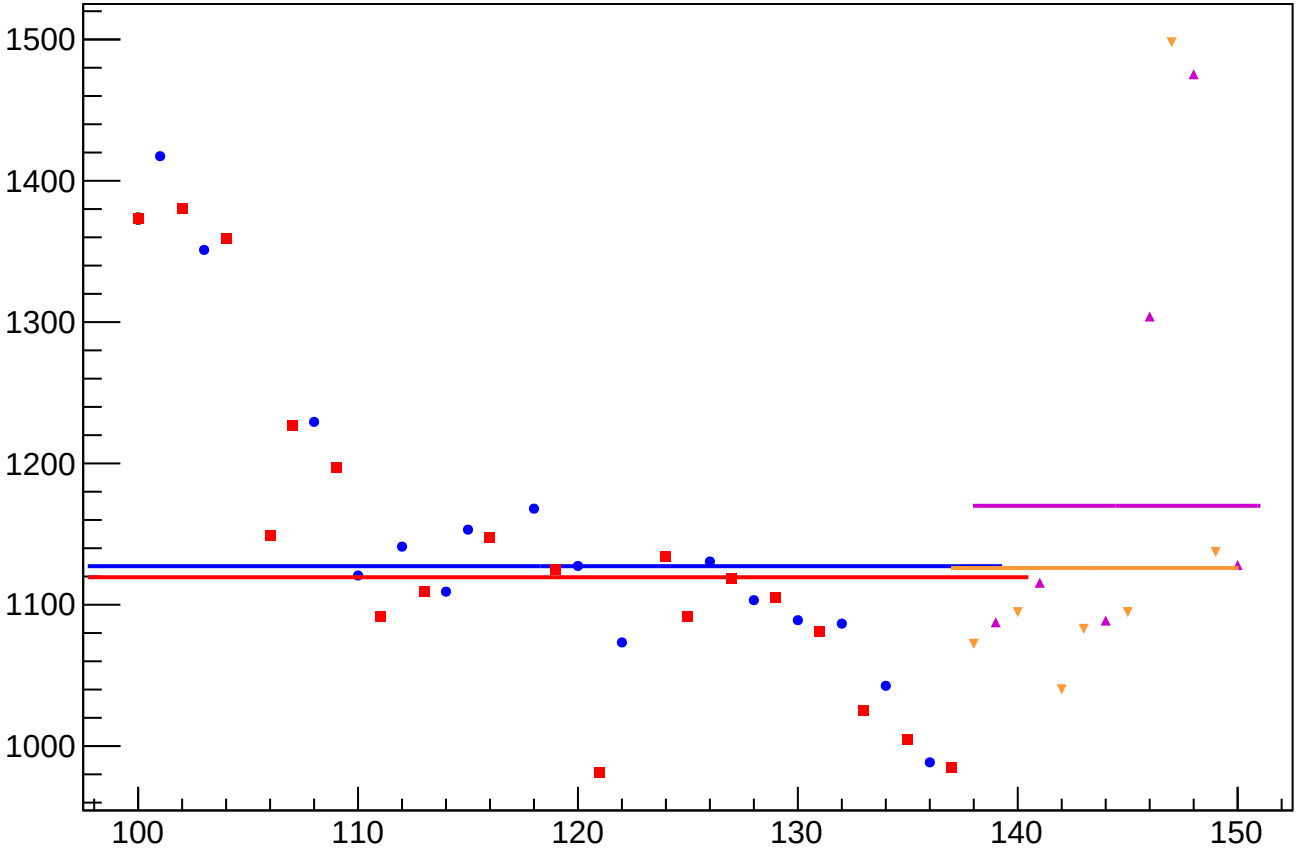
Right: -5.230+/-0.294 $\chi^2$/NDF: 657.9/34

In: -3.170+/-0.325 $\chi^2$/NDF:455.6/21

Out: -2.499+/-0.314 $\chi^2$/NDF:381.3/25

All: -2.823+/-0.226 $\chi^2$/NDF: 839.1/47

# diff_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 1127.290+/-0.298 $\chi^2$/NDF: 140615.8/15

Left Out: 1125.997+/-0.346 $\chi^2$/NDF:117311.8/6

Right Out: 1119.473+/-0.290 $\chi^2$/NDF: 140736.0/18

Left In: 1170.036+/-0.363 $\chi^2$/NDF:117309.1/5

Left: 1146.987+/-0.250 $\chi^2$/NDF: 242338.6/12

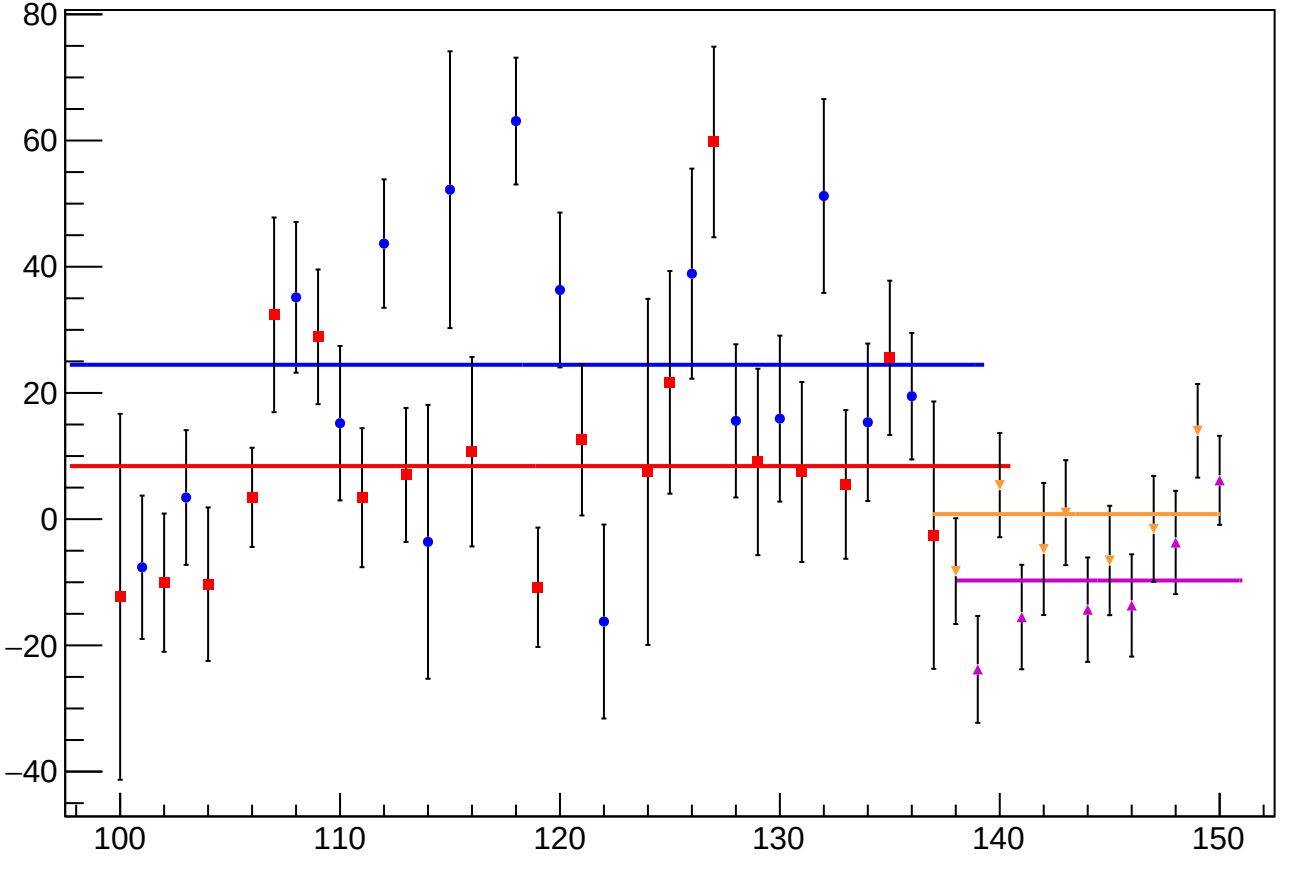
Right: 1123.282+/-0.208 $\chi^2$/NDF: 281705.5/34

In: 1144.491+/-0.230 $\chi^2$/NDF:266227.2/21

Out: 1122.166+/-0.222 $\chi^2$/NDF:258256.6/25

All: 1132.948+/-0.160 $\chi^2$/NDF: 529352.7/47

# diff_bpm0l10X_mean vs Slug, Sign Corrected




Right In: 24.463+/-3.136 $\chi^2$/NDF: 48.3/15

Left Out: 0.803+/-3.192 $\chi^2$/NDF:5.7/6

Right Out: 8.413+/-2.891 $\chi^2$/NDF: 31.1/18

Left In: -9.720+/-3.273 $\chi^2$/NDF:9.4/5

Left: -4.328+/-2.285 $\chi^2$/NDF: 20.4/12

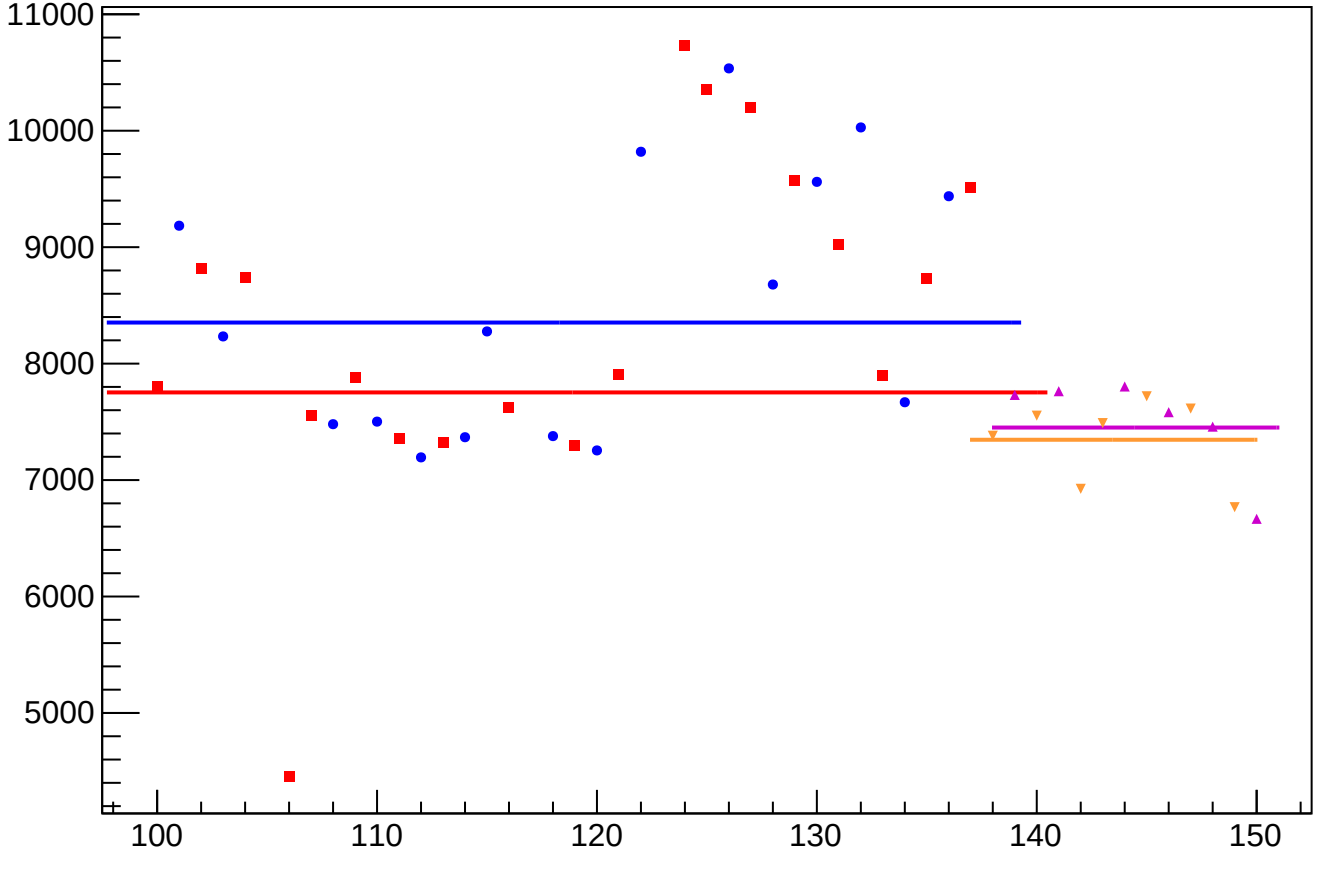
Right: 15.786+/-2.126 $\chi^2$/NDF: 93.6/34

In: 8.098+/-2.264 $\chi^2$/NDF:114.6/21

Out: 4.984+/-2.143 $\chi^2$/NDF:40.0/25

All: 6.455+/-1.556 $\chi^2$/NDF: 155.6/47

# diff_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 8352.758+/-2.218 $\chi^2$/NDF: 220412.5/15

Left Out: 7346.176+/-2.257 $\chi^2$/NDF:23046.2/6

Right Out: 7752.674+/-2.044 $\chi^2$/NDF: 588072.1/18

Left In: 7451.040+/-2.314 $\chi^2$/NDF:33862.6/5

Left: 7397.303+/-1.616 $\chi^2$/NDF: 57961.2/12

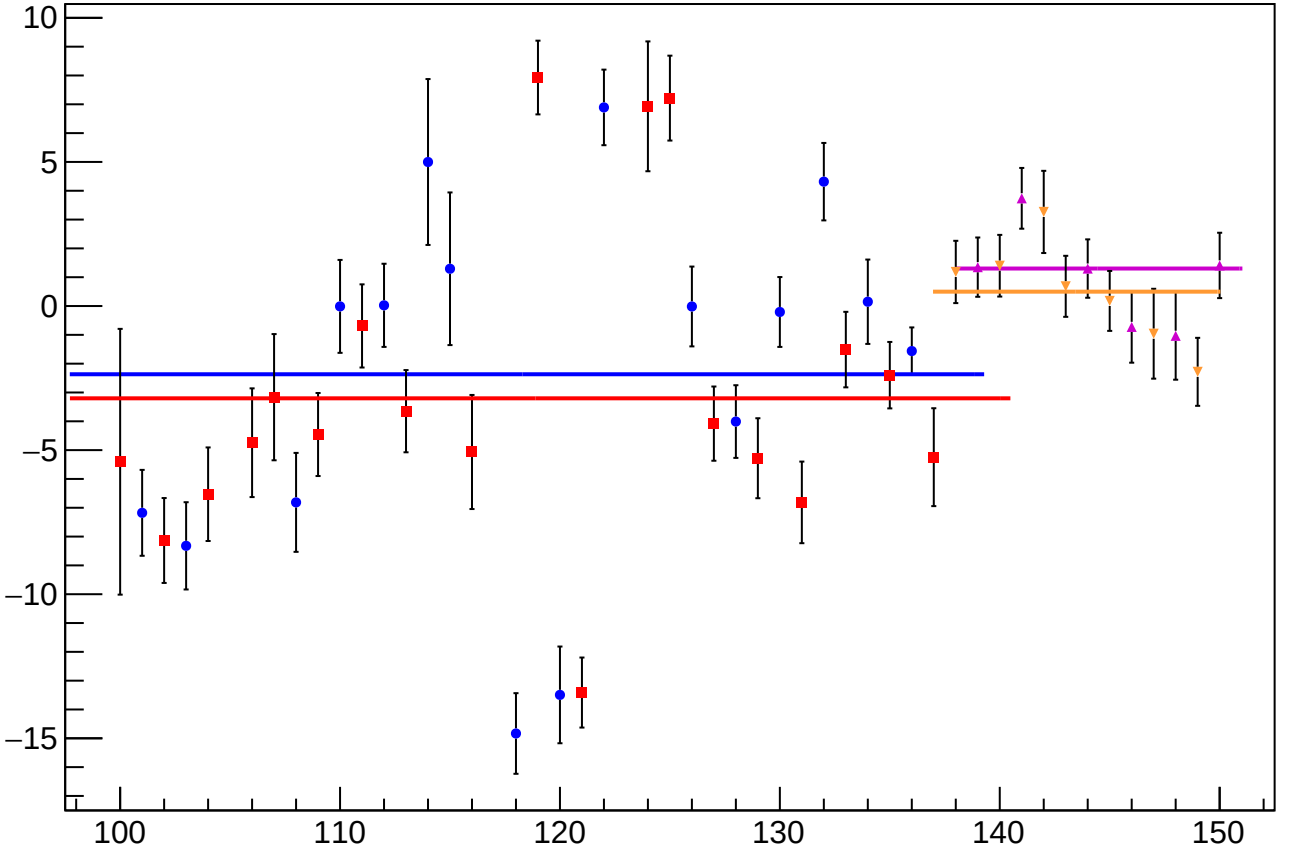
Right: 8028.343+/-1.503 $\chi^2$/NDF: 848071.5/34

In: 7921.077+/-1.601 $\chi^2$/NDF:333428.9/21

Out: 7569.497+/-1.515 $\chi^2$/NDF:628937.1/25

All: 7735.602+/-1.101 $\chi^2$/NDF: 987804.2/47

# diff_bpm0l10Y_mean vs Slug, Sign Corrected




Right In: -2.368+/-0.350 $\chi^2$/NDF: 255.6/15

Left Out: 0.499+/-0.440 $\chi^2$/NDF:11.4/6

Right Out: -3.203+/-0.346 $\chi^2$/NDF: 250.5/18

Left In: 1.301+/-0.462 $\chi^2$/NDF:10.4/5

Left: 0.880+/-0.319 $\chi^2$/NDF: 23.4/12

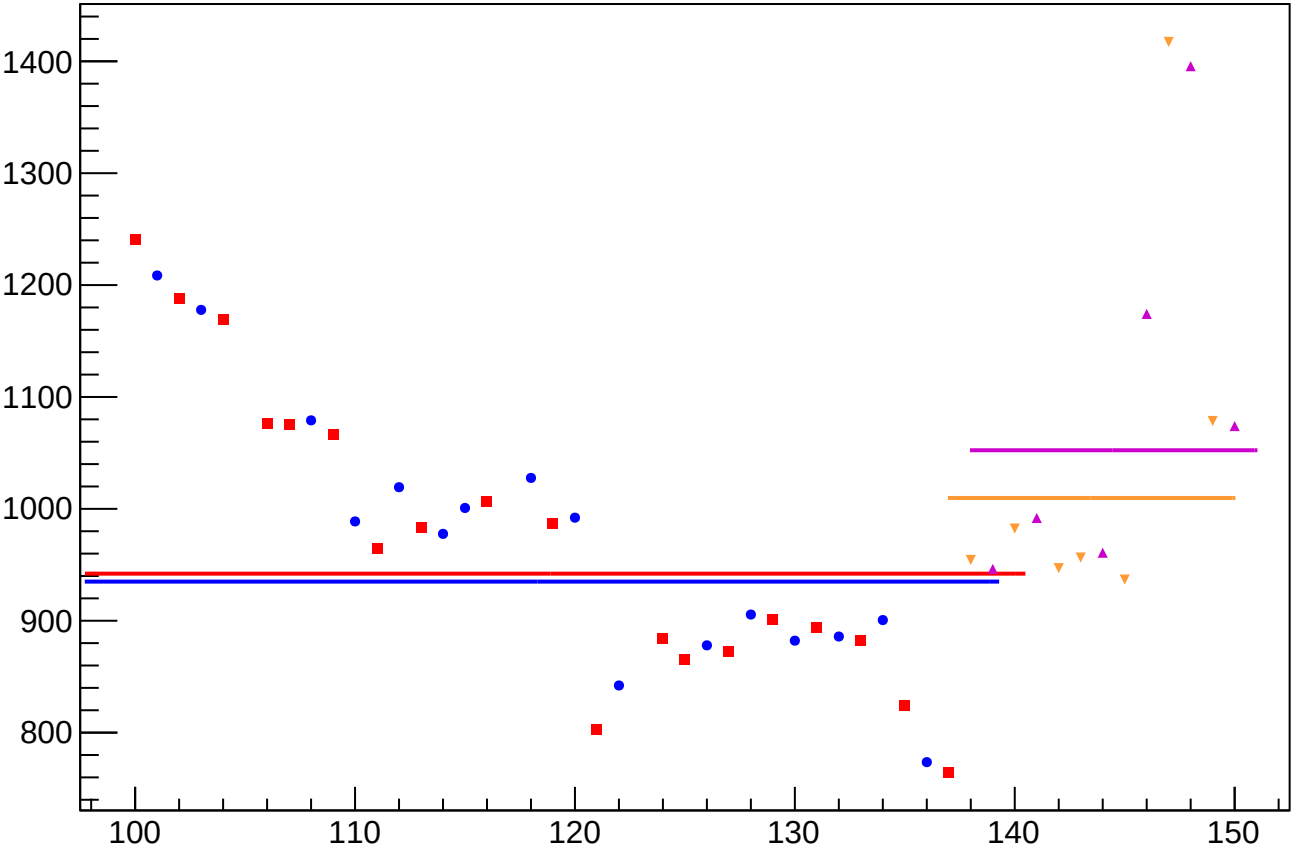
Right: -2.790+/-0.246 $\chi^2$/NDF: 509.0/34

In: -1.029+/-0.279 $\chi^2$/NDF:305.9/21

Out: -1.786+/-0.272 $\chi^2$/NDF:305.7/25

All: -1.418+/-0.195 $\chi^2$/NDF: 615.3/47

# diff_bpm0l10Y_rms vs Slug, Sign Corrected




Right In: 934.975+/-0.248 $\chi^2$/NDF: 254363.7/15

Left Out: 1009.731+/-0.311 $\chi^2$/NDF:168809.9/6

Right Out: 942.096+/-0.245 $\chi^2$/NDF: 232453.5/18

Left In: 1052.370+/-0.327 $\chi^2$/NDF:165715.7/5

Left: 1029.984+/-0.225 $\chi^2$/NDF: 343451.0/12

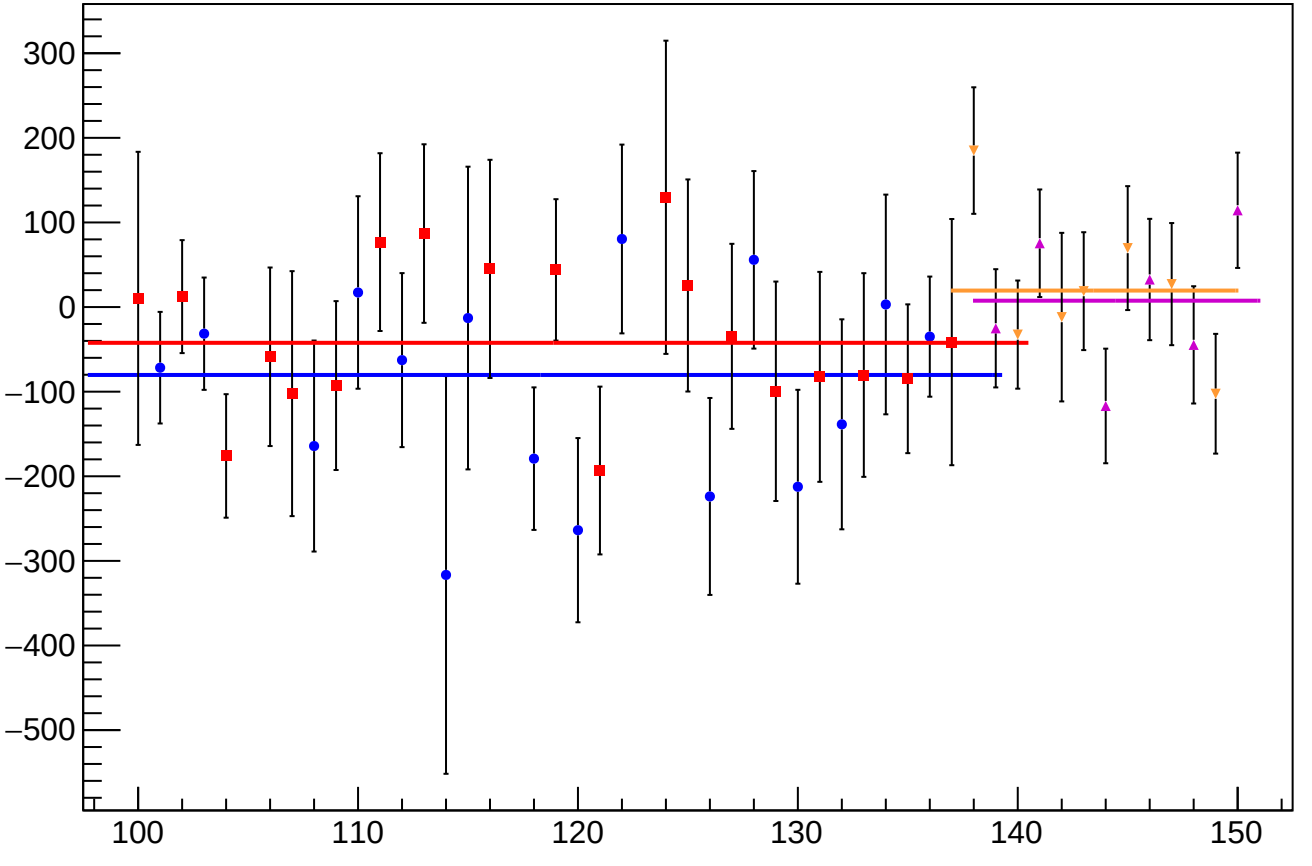
Right: 938.577+/-0.174 $\chi^2$/NDF: 487235.0/34

In: 977.796+/-0.198 $\chi^2$/NDF:501942.6/21

Out: 967.980+/-0.192 $\chi^2$/NDF:430449.5/25

All: 972.761+/-0.138 $\chi^2$/NDF: 933659.3/47

# diff_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -80.250+/-24.909 $\chi^2$/NDF: 14.8/15

Left Out: 19.500+/-27.642 $\chi^2$/NDF:9.1/6

Right Out: -42.263+/-24.144 $\chi^2$/NDF: 13.0/18

Left In: 7.524+/-27.859 $\chi^2$/NDF:7.9/5

Left: 13.559+/-19.622 $\chi^2$/NDF: 17.1/12

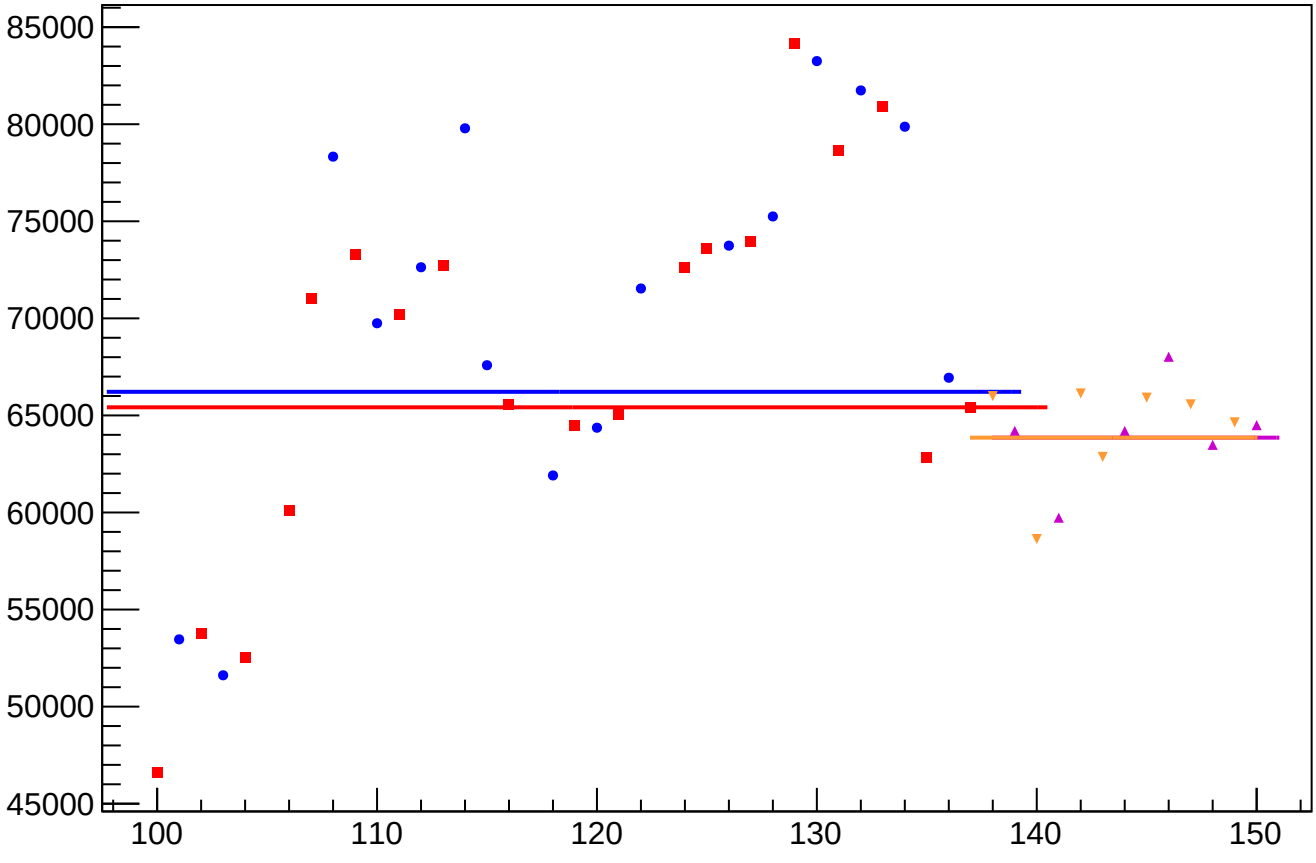
Right: -60.665+/-17.337 $\chi^2$/NDF: 29.0/34

In: -41.255+/-18.569 $\chi^2$/NDF:28.2/21

Out: -15.534+/-18.184 $\chi^2$/NDF:24.9/25

All: -28.125+/-12.992 $\chi^2$/NDF: 54.1/47

# diff_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 66216.115+/-17.613 $\chi^2$/NDF: 338377.6/15

Left Out: 63854.555+/-19.546 $\chi^2$/NDF:19407.7/6

Right Out: 65418.529+/-17.073 $\chi^2$/NDF: 304555.9/18

Left In: 63854.427+/-19.699 $\chi^2$/NDF:15501.1/5

Left: 63854.492+/-13.875 $\chi^2$/NDF: 34908.8/12

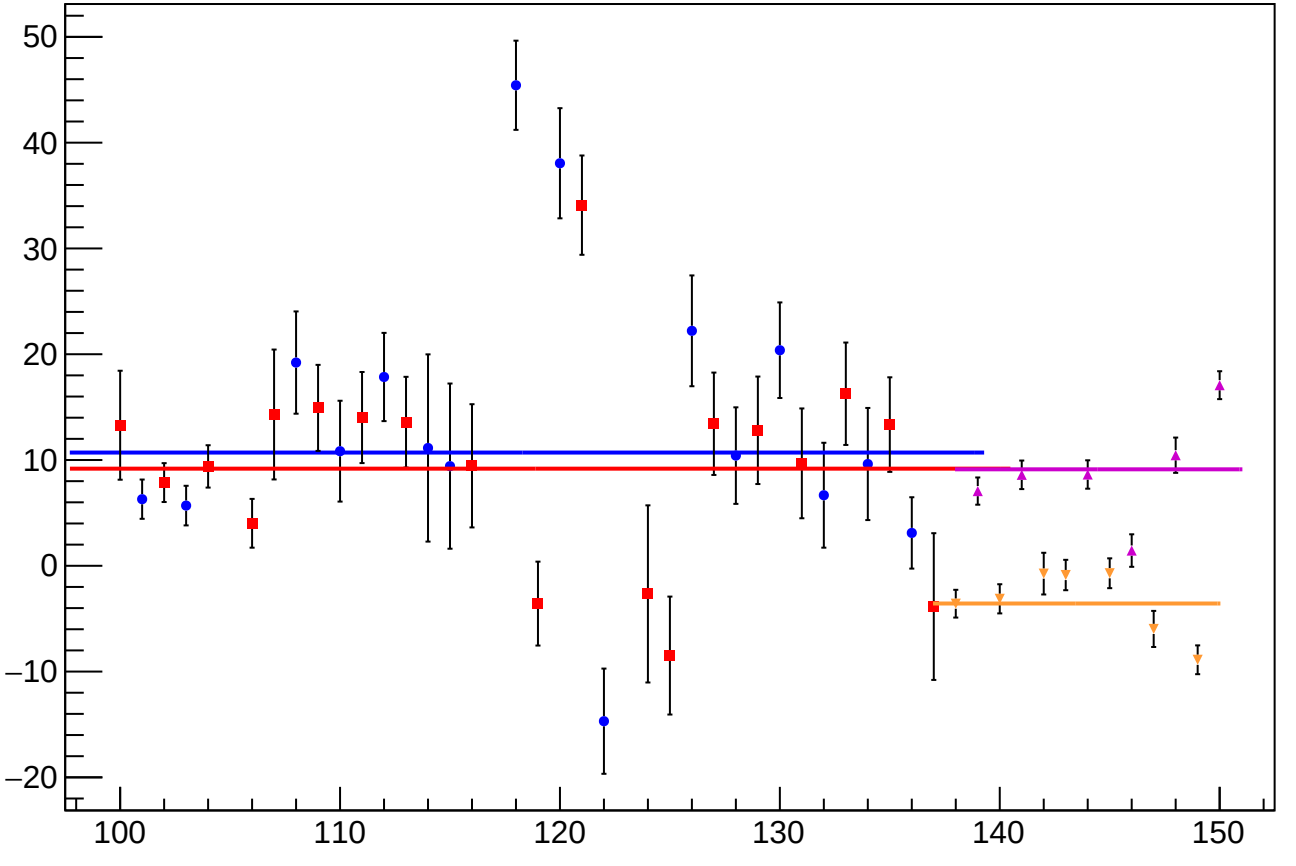
Right: 65804.895+/-12.259 $\chi^2$/NDF: 643990.8/34

In: 65166.893+/-13.130 $\chi^2$/NDF:361866.1/21

Out: 64741.691+/-12.858 $\chi^2$/NDF:327595.3/25

All: 64949.843+/-9.187 $\chi^2$/NDF: 689996.8/47

# diff_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: 10.705+/-0.921 $\chi^2$/NDF: 155.6/15

Left Out: -3.566+/-0.556 $\chi^2$/NDF:27.0/6

Right Out: 9.182+/-0.850 $\chi^2$/NDF: 69.6/18

Left In: 9.120+/-0.571 $\chi^2$/NDF:64.8/5

Left: 2.606+/-0.398 $\chi^2$/NDF: 345.1/12

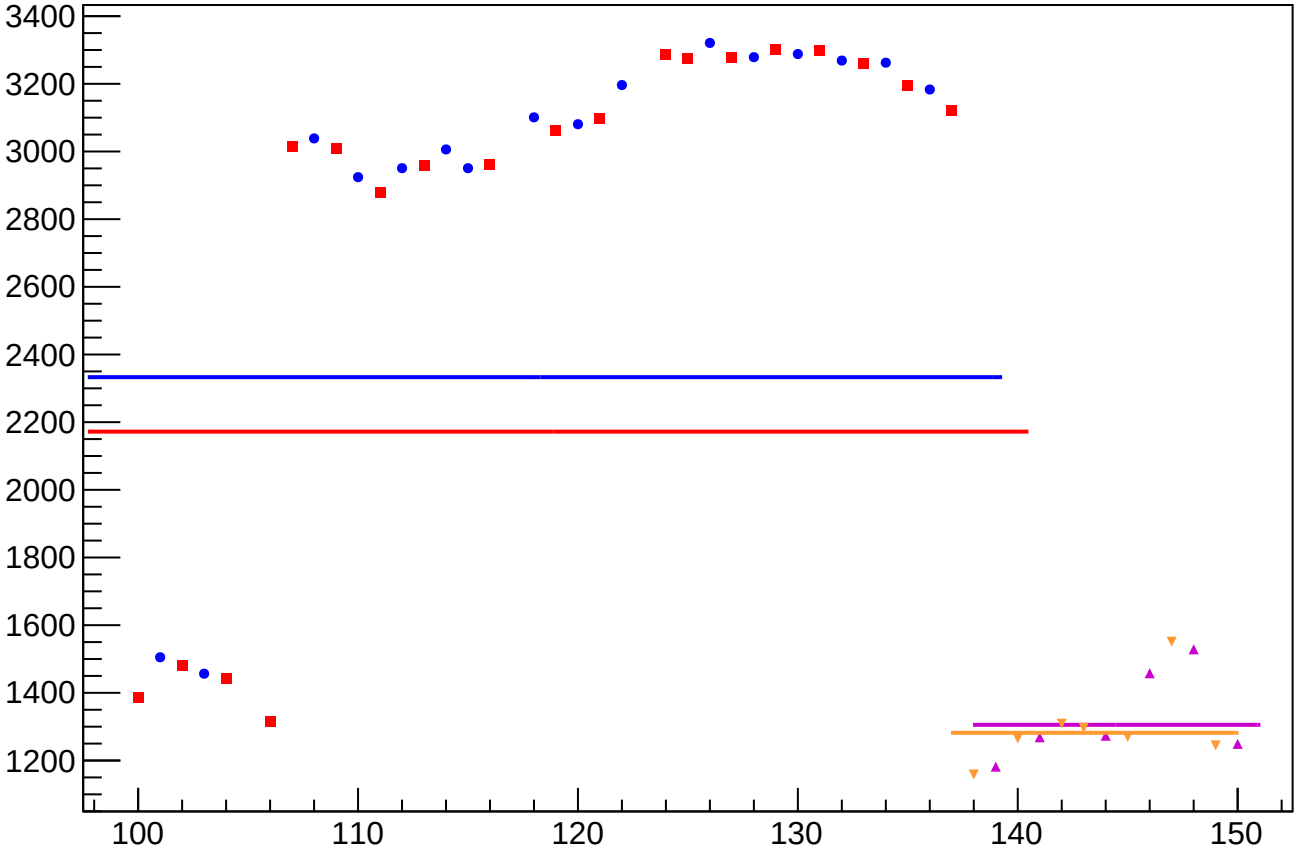
Right: 9.883+/-0.625 $\chi^2$/NDF: 226.6/34

In: 9.560+/-0.485 $\chi^2$/NDF:222.5/21

Out: 0.253+/-0.465 $\chi^2$/NDF:254.1/25

All: 4.711+/-0.336 $\chi^2$/NDF: 668.2/47

# diff_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 2333.021+/-0.651 $\chi^2$/NDF: 1651407.8/15

Left Out: 1281.881+/-0.393 $\chi^2$/NDF:69932.7/6

Right Out: 2172.041+/-0.601 $\chi^2$/NDF: 1984197.6/18

Left In: 1305.465+/-0.404 $\chi^2$/NDF:80182.4/5

Left: 1293.355+/-0.282 $\chi^2$/NDF: 151865.9/12

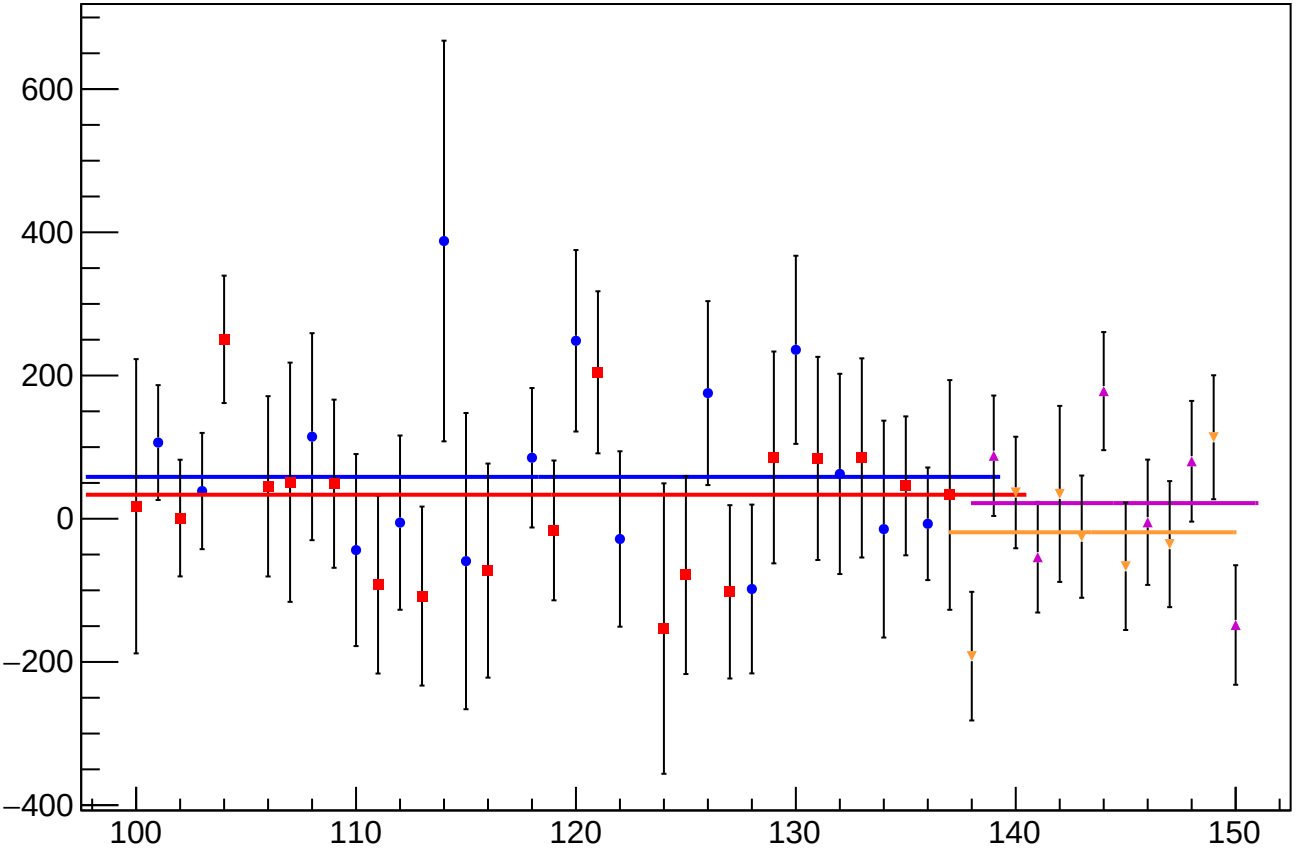
Right: 2246.139+/-0.442 $\chi^2$/NDF: 3668614.7/34

In: 1591.094+/-0.343 $\chi^2$/NDF:3530884.3/21

Out: 1548.552+/-0.329 $\chi^2$/NDF:3589990.7/25

All: 1568.927+/-0.238 $\chi^2$/NDF: 7128881.6/47

# diff_bpm0r05X_mean vs Slug, Sign Corrected




Right In: 58.446+/-28.918 $\chi^2$/NDF: 11.3/15

Left Out: -18.923+/-33.688 $\chi^2$/NDF:7.1/6

Right Out: 33.520+/-28.106 $\chi^2$/NDF: 14.7/18

Left In: 21.827+/-33.886 $\chi^2$/NDF:9.9/5

Left: 1.333+/-23.891 $\chi^2$/NDF: 17.7/12

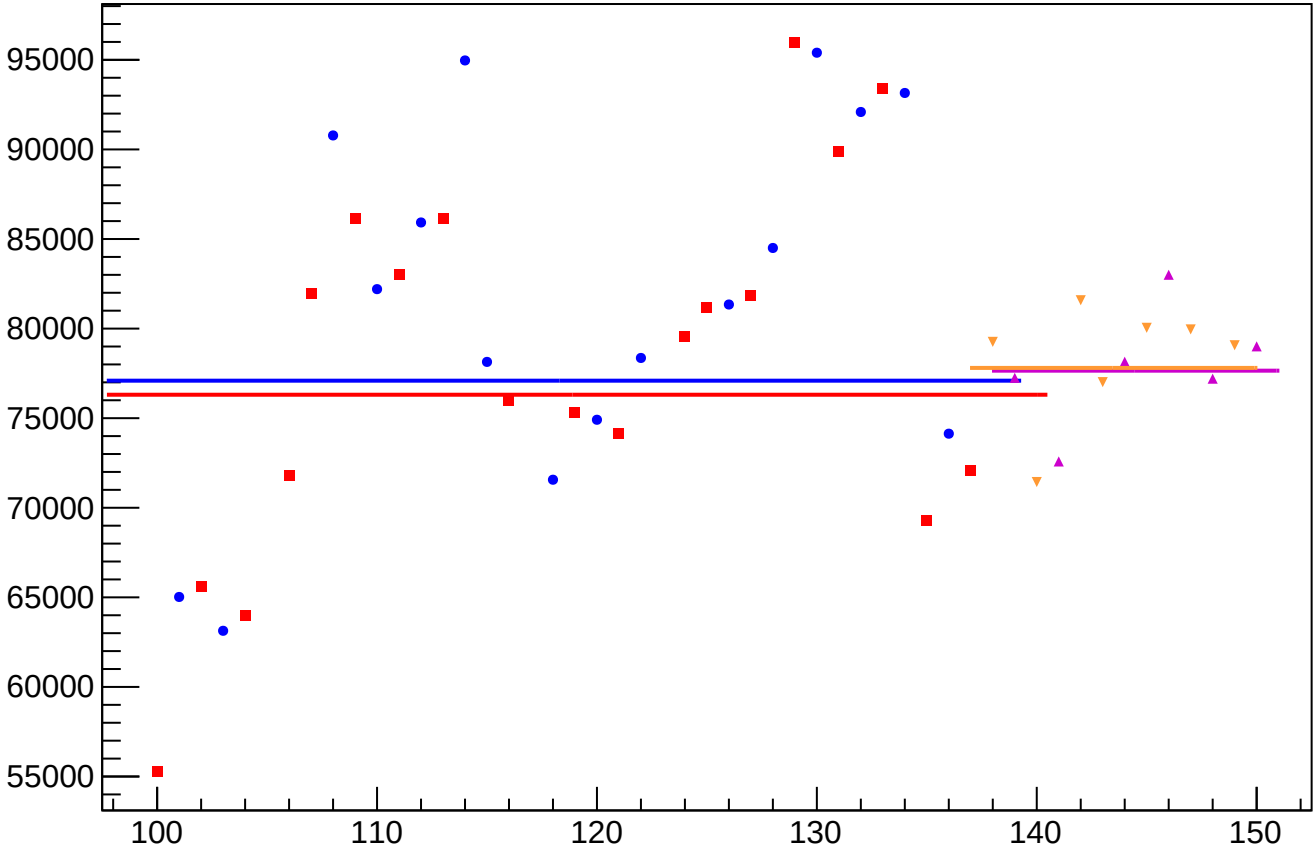
Right: 45.628+/-20.155 $\chi^2$/NDF: 26.4/34

In: 43.015+/-21.997 $\chi^2$/NDF:21.9/21

Out: 11.998+/-21.581 $\chi^2$/NDF:23.2/25

All: 27.211+/-15.405 $\chi^2$/NDF: 46.1/47

# diff_bpm0r05X_rms vs Slug, Sign Corrected




Right In: 77093.125+/-20.448 $\chi^2$/NDF: 248542.7/15

Left Out: 77805.618+/-23.821 $\chi^2$/NDF:18848.9/6

Right Out: 76308.708+/-19.874 $\chi^2$/NDF: 234433.2/18

Left In: 77651.684+/-23.961 $\chi^2$/NDF:16791.9/5

Left: 77729.101+/-16.893 $\chi^2$/NDF: 35661.5/12

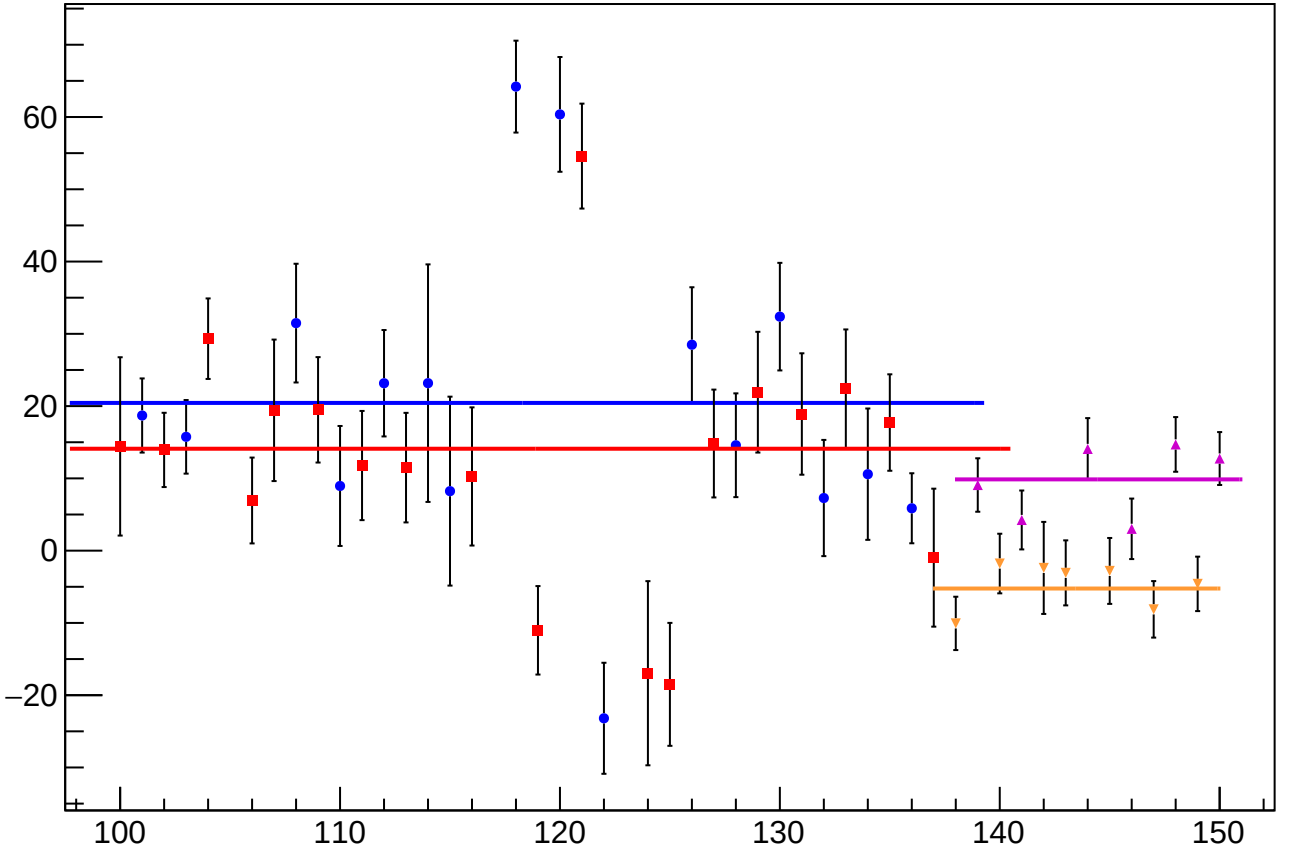
Right: 76689.749+/-14.251 $\chi^2$/NDF: 483732.7/34

In: 77328.494+/-15.554 $\chi^2$/NDF:265649.1/21

Out: 76923.027+/-15.260 $\chi^2$/NDF:255610.3/25

All: 77121.895+/-10.893 $\chi^2$/NDF: 521605.7/4

# diff_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 20.441+/-1.782 $\chi^2$/NDF: 127.8/15

Left Out: -5.240+/-1.601 $\chi^2$/NDF:3.7/6

Right Out: 14.102+/-1.714 $\chi^2$/NDF: 83.8/18

Left In: 9.861+/-1.601 $\chi^2$/NDF:7.8/5

Left: 2.307+/-1.132 $\chi^2$/NDF: 56.0/12

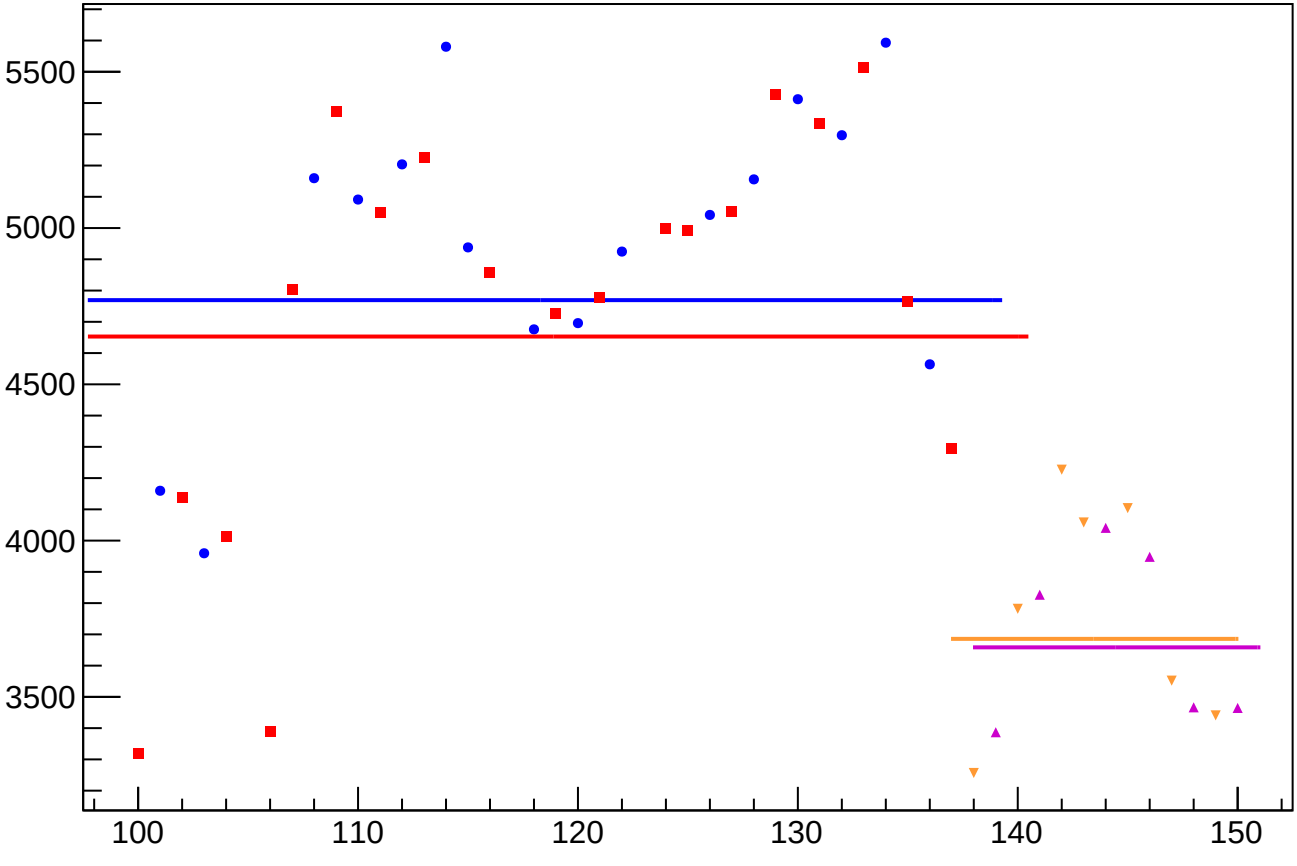
Right: 17.148+/-1.235 $\chi^2$/NDF: 218.2/34

In: 14.588+/-1.191 $\chi^2$/NDF:155.2/21

Out: 3.772+/-1.170 $\chi^2$/NDF:155.5/25

All: 9.082+/-0.835 $\chi^2$/NDF: 352.7/47

# diff_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 4769.375+/-1.260 $\chi^2$/NDF: 151678.3/15

Left Out: 3685.627+/-1.132 $\chi^2$/NDF:83904.1/6

Right Out: 4652.924+/-1.212 $\chi^2$/NDF: 265116.1/18

Left In: 3658.469+/-1.132 $\chi^2$/NDF:50622.3/5

Left: 3672.054+/-0.800 $\chi^2$/NDF: 134814.3/12

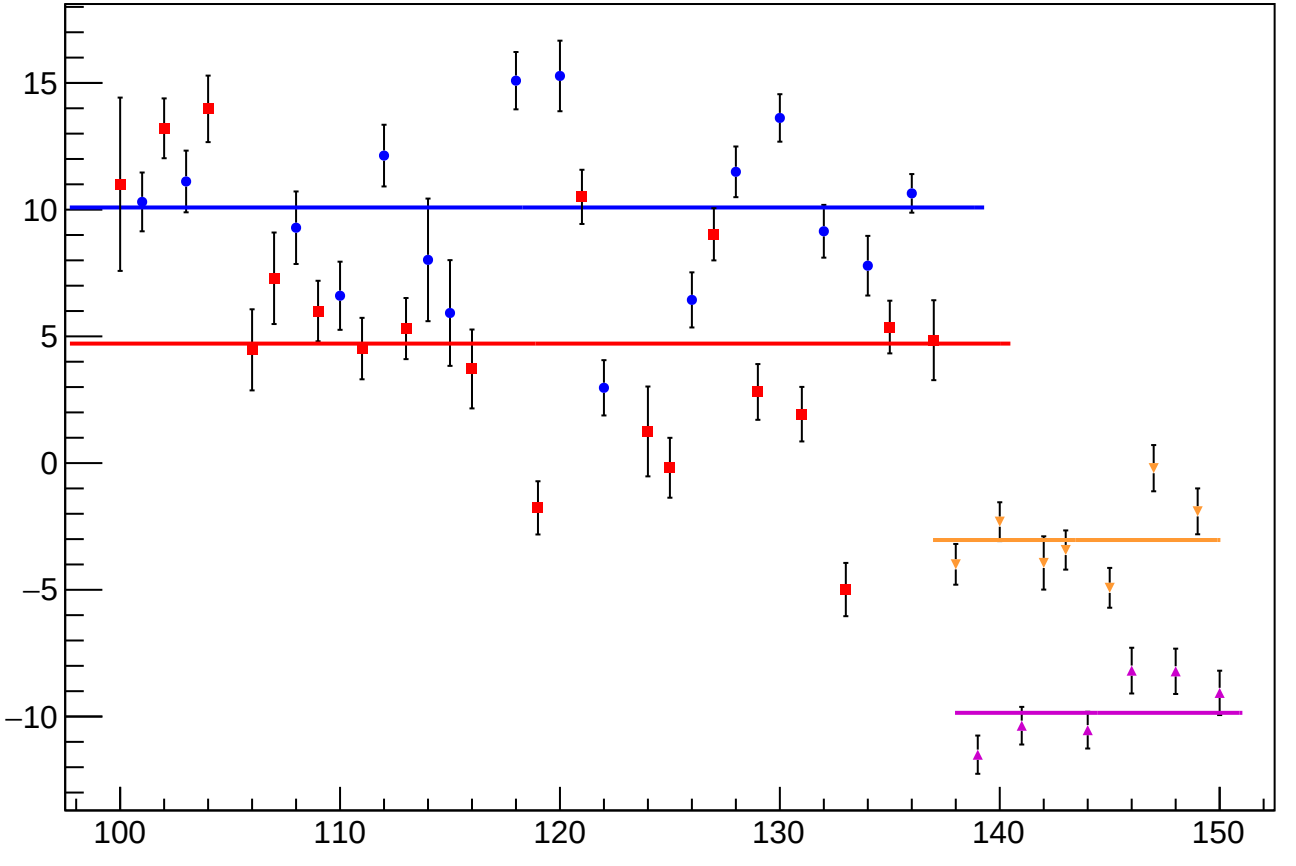
Right: 4708.872+/-0.873 $\chi^2$/NDF: 421232.0/34

In: 4154.781+/-0.842 $\chi^2$/NDF:632331.3/21

Out: 4136.332+/-0.827 $\chi^2$/NDF:689373.6/25

All: 4145.389+/-0.590 $\chi^2$/NDF: 1321949.2/47

# diff_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 10.086+/-0.288 $\chi^2$/NDF: 123.9/15

Left Out: -3.035+/-0.318 $\chi^2$/NDF:20.3/6

Right Out: 4.715+/-0.286 $\chi^2$/NDF: 310.2/18

Left In: -9.854+/-0.329 $\chi^2$/NDF:13.7/5

Left: -6.335+/-0.229 $\chi^2$/NDF: 256.1/12

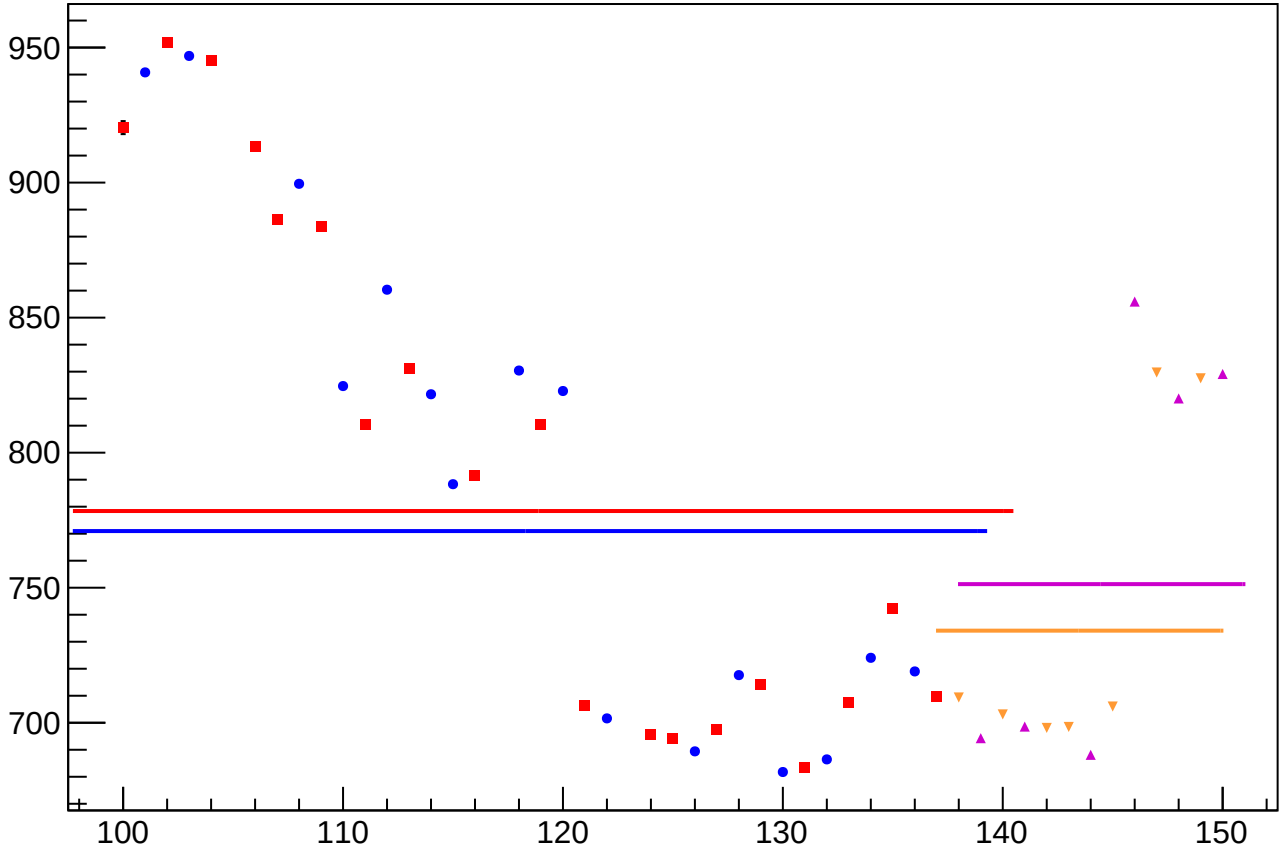
Right: 7.376+/-0.203 $\chi^2$/NDF: 609.2/34

In: 1.414+/-0.217 $\chi^2$/NDF:2217.2/21

Out: 1.256+/-0.213 $\chi^2$/NDF:658.8/25

All: 1.333+/-0.152 $\chi^2$/NDF: 2876.2/47

# diff_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 770.973+/-0.204 $\chi^2$/NDF: 192911.9/15

Left Out: 734.102+/-0.225 $\chi^2$/NDF:57596.0/6

Right Out: 778.394+/-0.202 $\chi^2$/NDF: 196544.2/18

Left In: 751.328+/-0.232 $\chi^2$/NDF:91213.9/5

Left: 742.437+/-0.162 $\chi^2$/NDF: 151644.7/12

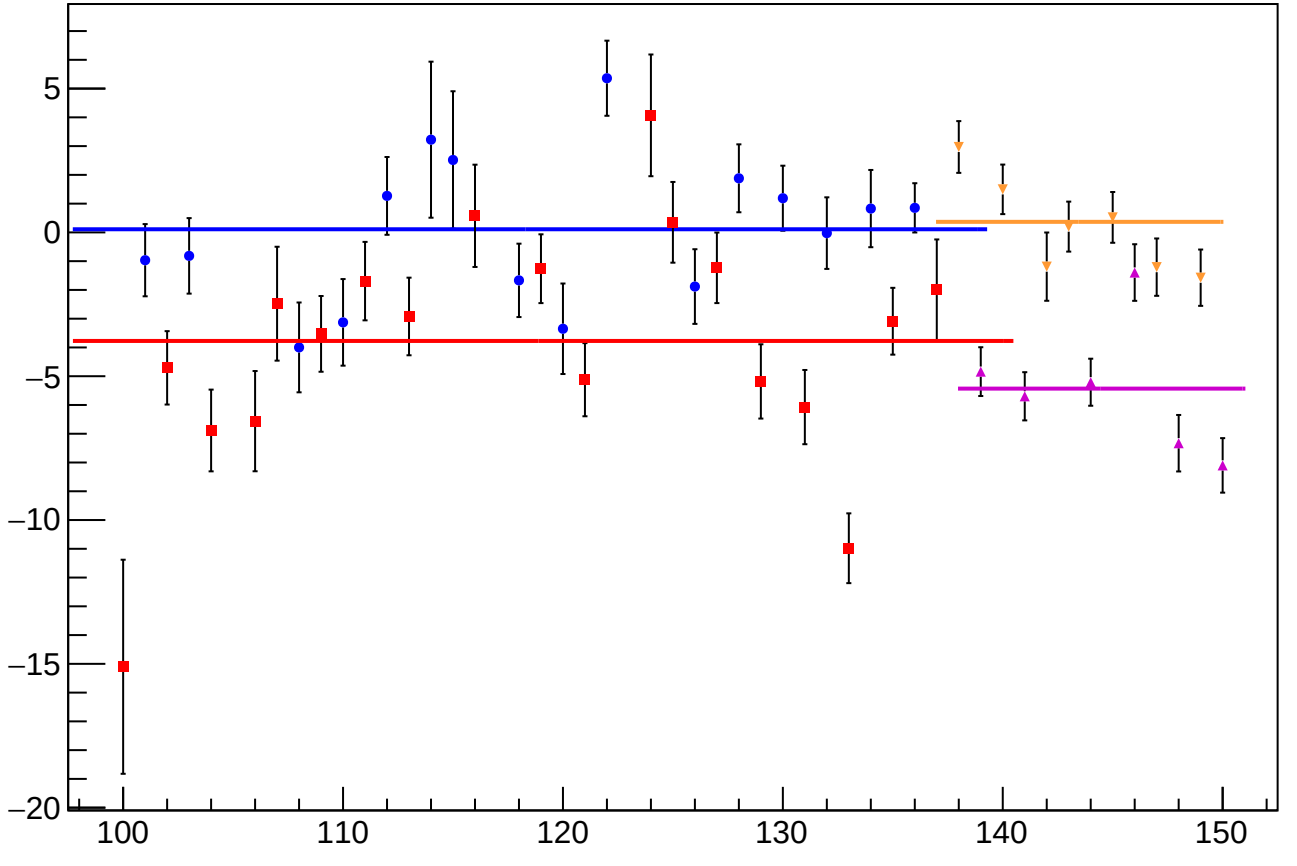
Right: 774.717+/-0.144 $\chi^2$/NDF: 390124.3/34

In: 762.429+/-0.153 $\chi^2$/NDF:288162.7/21

Out: 758.625+/-0.150 $\chi^2$/NDF:275585.2/25

All: 760.491+/-0.107 $\chi^2$/NDF: 564061.7/47

# diff_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: 0.109+/-0.330 $\chi^2$/NDF: 45.4/15

Left Out: 0.367+/-0.355 $\chi^2$/NDF:18.3/6

Right Out: -3.774+/-0.326 $\chi^2$/NDF: 99.6/18

Left In: -5.431+/-0.365 $\chi^2$/NDF:29.2/5

Left: -2.446+/-0.254 $\chi^2$/NDF: 177.1/12

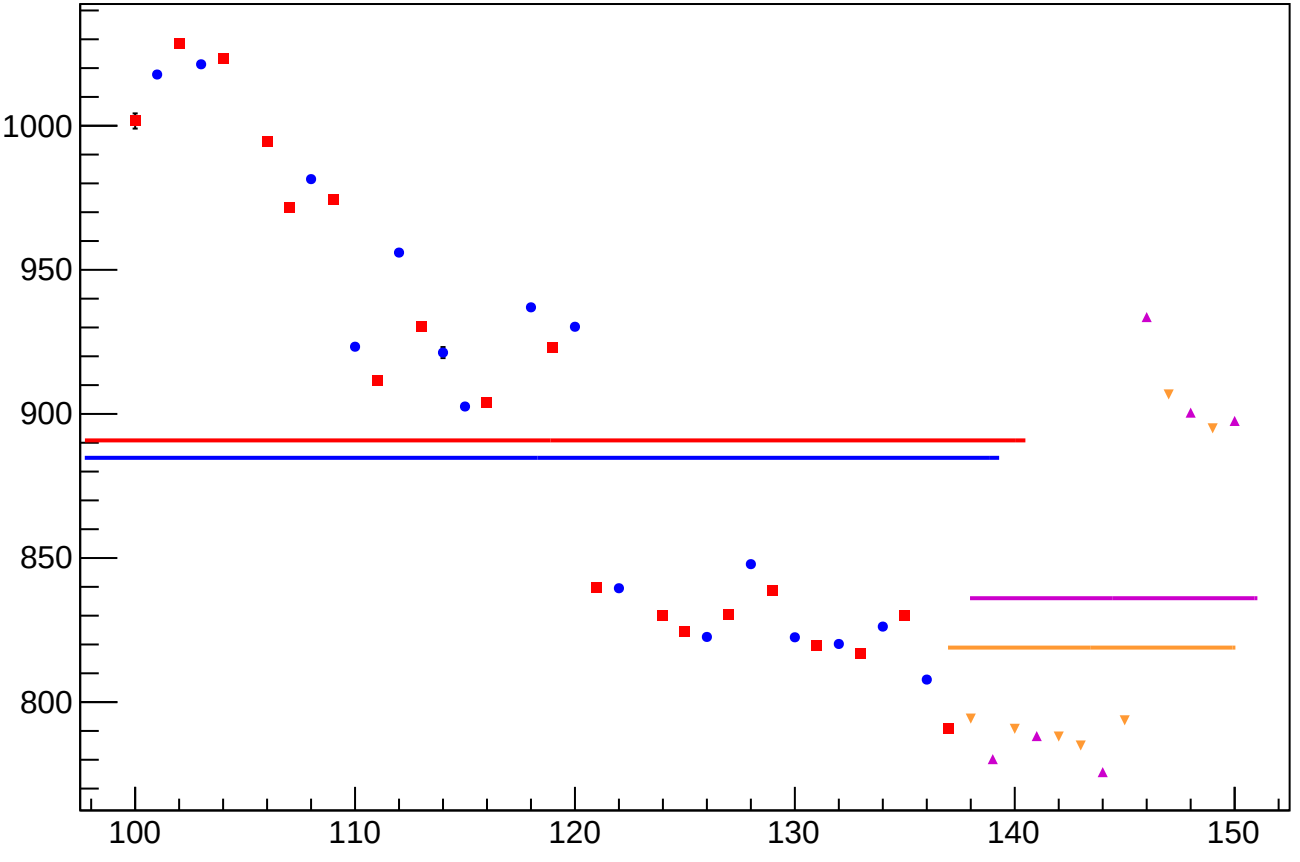
Right: -1.855+/-0.232 $\chi^2$/NDF: 215.0/34

In: -2.380+/-0.245 $\chi^2$/NDF:201.2/21

Out: -1.877+/-0.240 $\chi^2$/NDF:191.8/25

All: -2.123+/-0.171 $\chi^2$/NDF: 395.1/47

# diff_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 884.773+/-0.233 $\chi^2$/NDF: 104494.1/15

Left Out: 818.921+/-0.251 $\chi^2$/NDF:37290.3/6

Right Out: 890.815+/-0.231 $\chi^2$/NDF: 107763.6/18

Left In: 836.057+/-0.258 $\chi^2$/NDF:62777.1/5

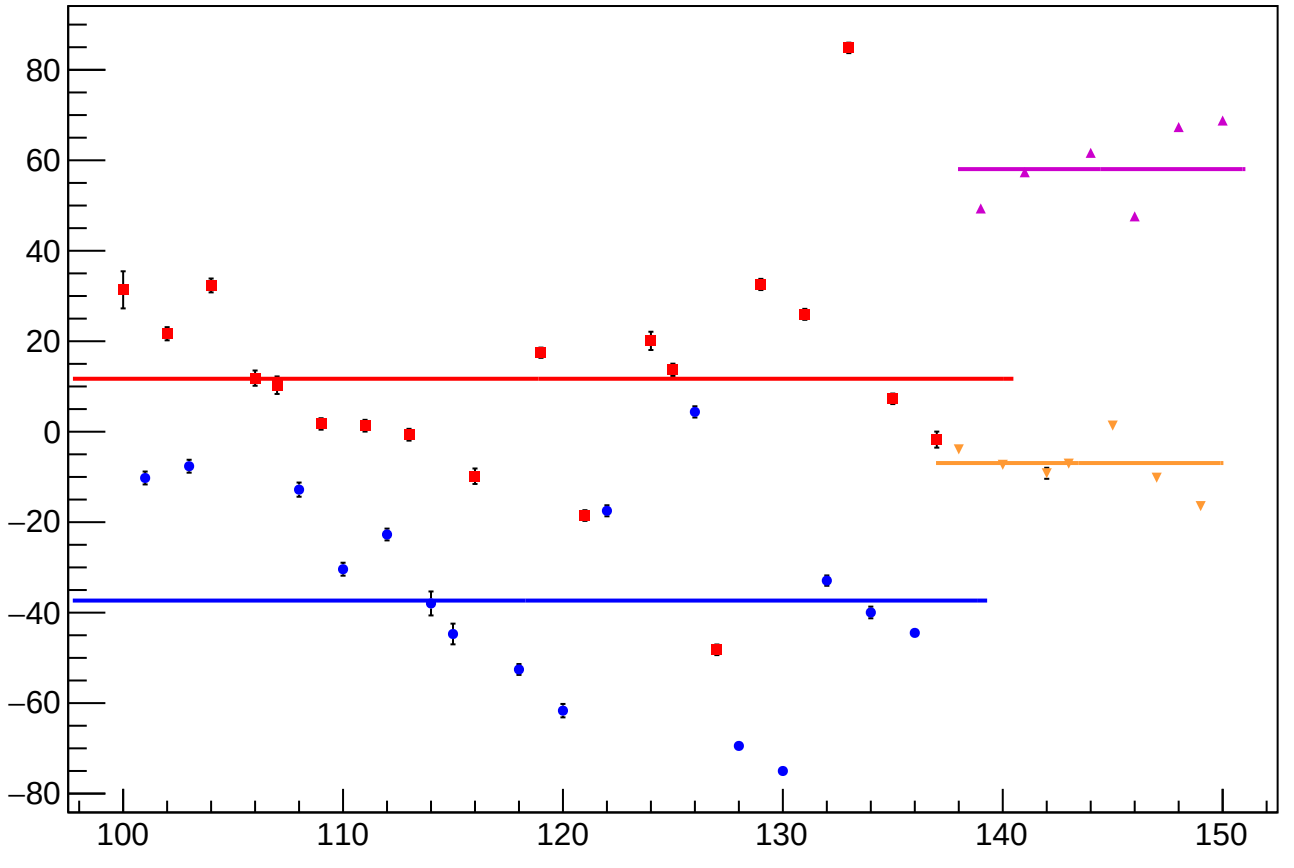
Left: 827.236+/-0.180 $\chi^2$/NDF: 102332.9/12

Right: 887.830+/-0.164 $\chi^2$/NDF: 212597.1/34

In: 862.888+/-0.173 $\chi^2$/NDF:186863.1/21

Out: 857.883+/-0.170 $\chi^2$/NDF:189593.4/25

All: 860.336+/-0.121 $\chi^2$/NDF: 376882.7/47




Right In: -37.330+/-0.322 $\chi^2$/NDF: 5184.7/15

Left Out: -6.927+/-0.365 $\chi^2$/NDF:190.0/6

Right Out: 11.706+/-0.318 $\chi^2$/NDF: 8463.6/18

Left In: 58.052+/-0.378 $\chi^2$/NDF:425.0/5

Left: 24.421+/-0.263 $\chi^2$/NDF: 15889.7/12

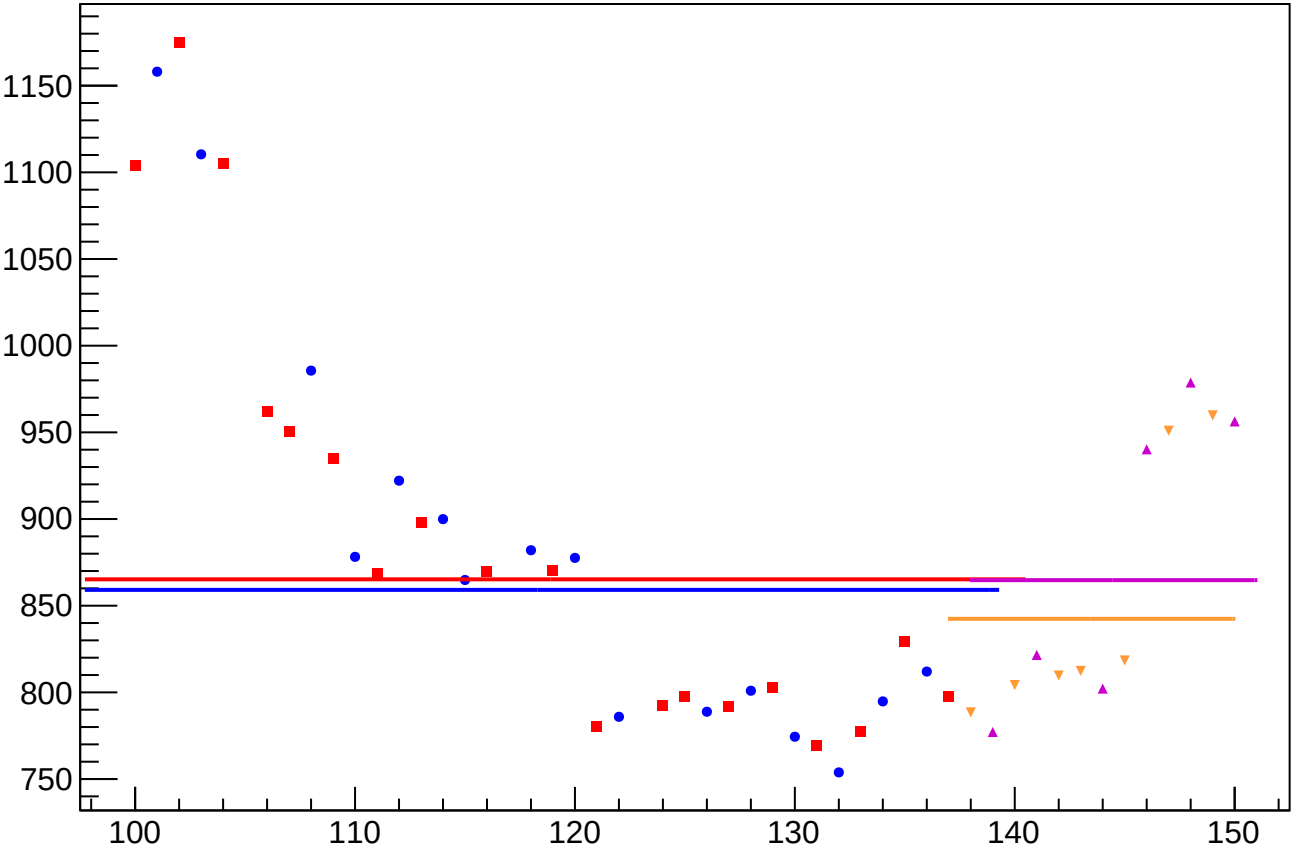
Right: -12.519+/-0.226 $\chi^2$/NDF: 25401.8/34

In: 2.711+/-0.245 $\chi^2$/NDF:42505.6/21

Out: 3.673+/-0.240 $\chi^2$/NDF:10134.7/25

All: 3.202+/-0.171 $\chi^2$/NDF: 52648.1/47

# diff_bpm2i02X_rms vs Slug, Sign Corrected




Right In: 859.126+/-0.228 $\chi^2$/NDF: 228710.0/15

Left Out: 842.432+/-0.258 $\chi^2$/NDF:62717.8/6

Right Out: 865.213+/-0.225 $\chi^2$/NDF: 223669.1/18

Left In: 864.735+/-0.267 $\chi^2$/NDF:88216.6/5

Left: 853.192+/-0.186 $\chi^2$/NDF: 154533.5/12

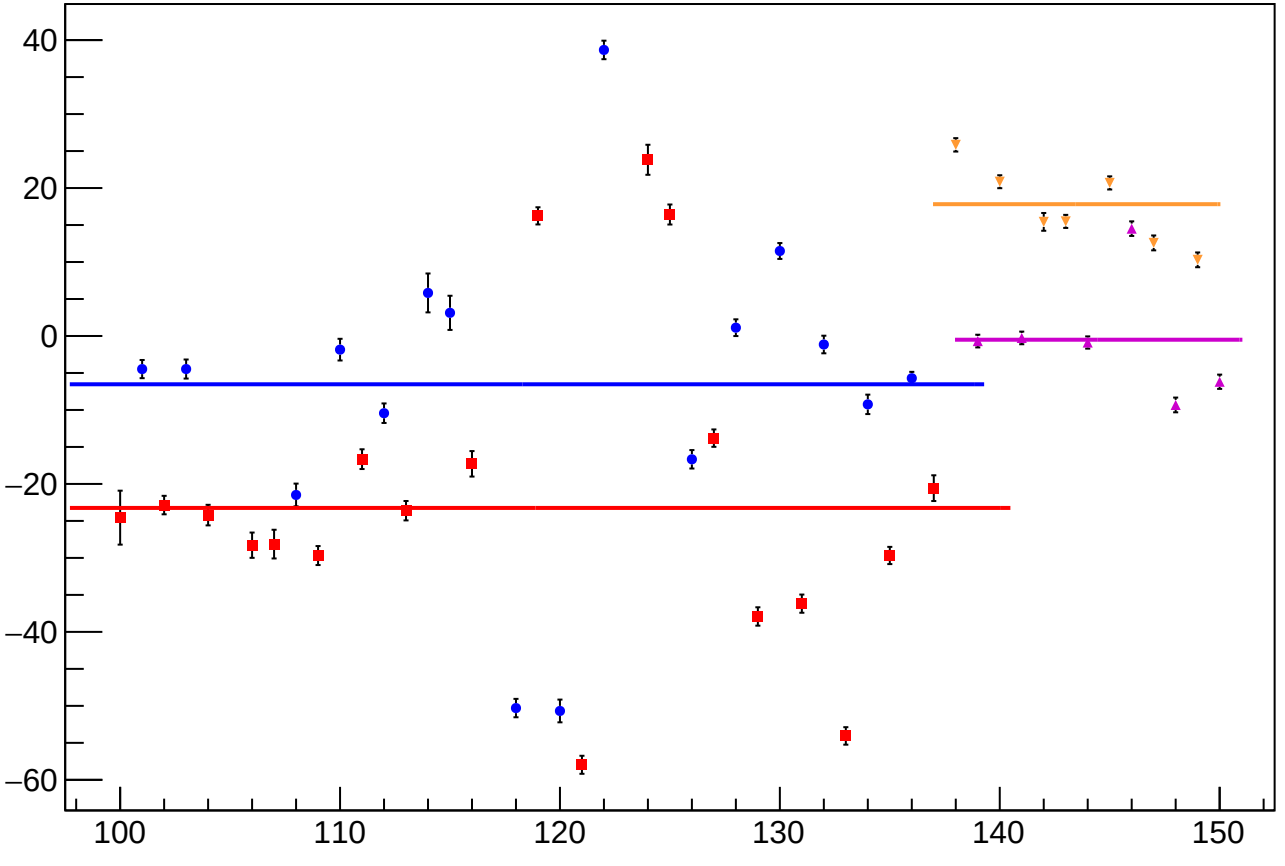
Right: 862.206+/-0.160 $\chi^2$/NDF: 452741.3/34

In: 861.481+/-0.173 $\chi^2$/NDF:317181.8/21

Out: 855.391+/-0.170 $\chi^2$/NDF:290814.6/25

All: 858.370+/-0.121 $\chi^2$/NDF: 608627.3/47

# diff_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: -6.529+/-0.321 $\chi^2$/NDF: 3946.1/15

Left Out: 17.818+/-0.359 $\chi^2$/NDF:195.3/6

Right Out: -23.244+/-0.317 $\chi^2$/NDF: 4470.0/18

Left In: -0.505+/-0.370 $\chi^2$/NDF:344.9/5

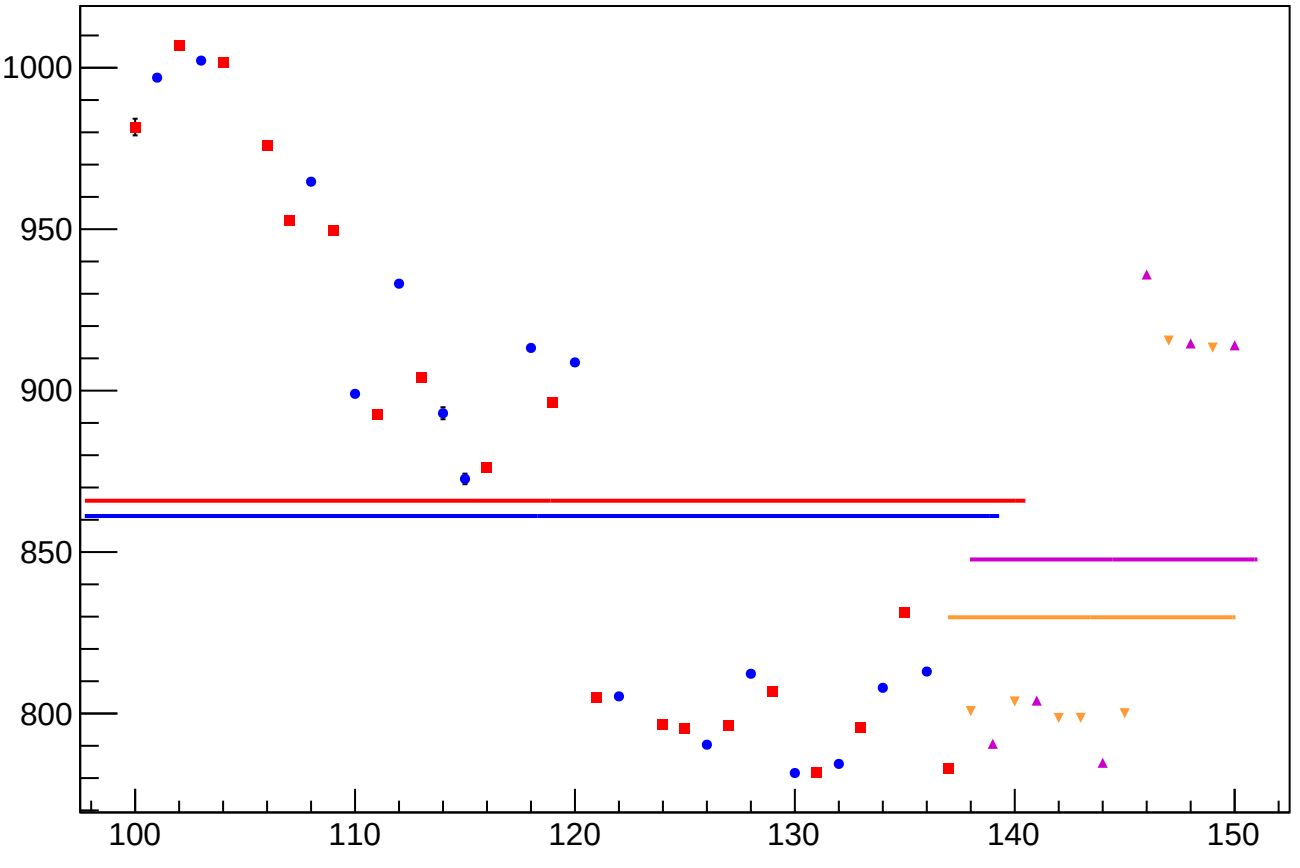
Left: 8.932+/-0.258 $\chi^2$/NDF: 1801.2/12

Right: -14.995+/-0.226 $\chi^2$/NDF: 9787.9/34

In: -3.942+/-0.243 $\chi^2$/NDF:4442.0/21

Out: -5.272+/-0.238 $\chi^2$/NDF:12007.8/25

All: -4.621+/-0.170 $\chi^2$/NDF: 16465.1/47




Right In: 861.169+/-0.227 $\chi^2$/NDF: 113529.7/15

Left Out: 829.798+/-0.254 $\chi^2$/NDF:38365.3/6

Right Out: 865.907+/-0.224 $\chi^2$/NDF: 118418.0/18

Left In: 847.711+/-0.262 $\chi^2$/NDF:60116.6/5

Left: 838.485+/-0.182 $\chi^2$/NDF: 100892.2/12

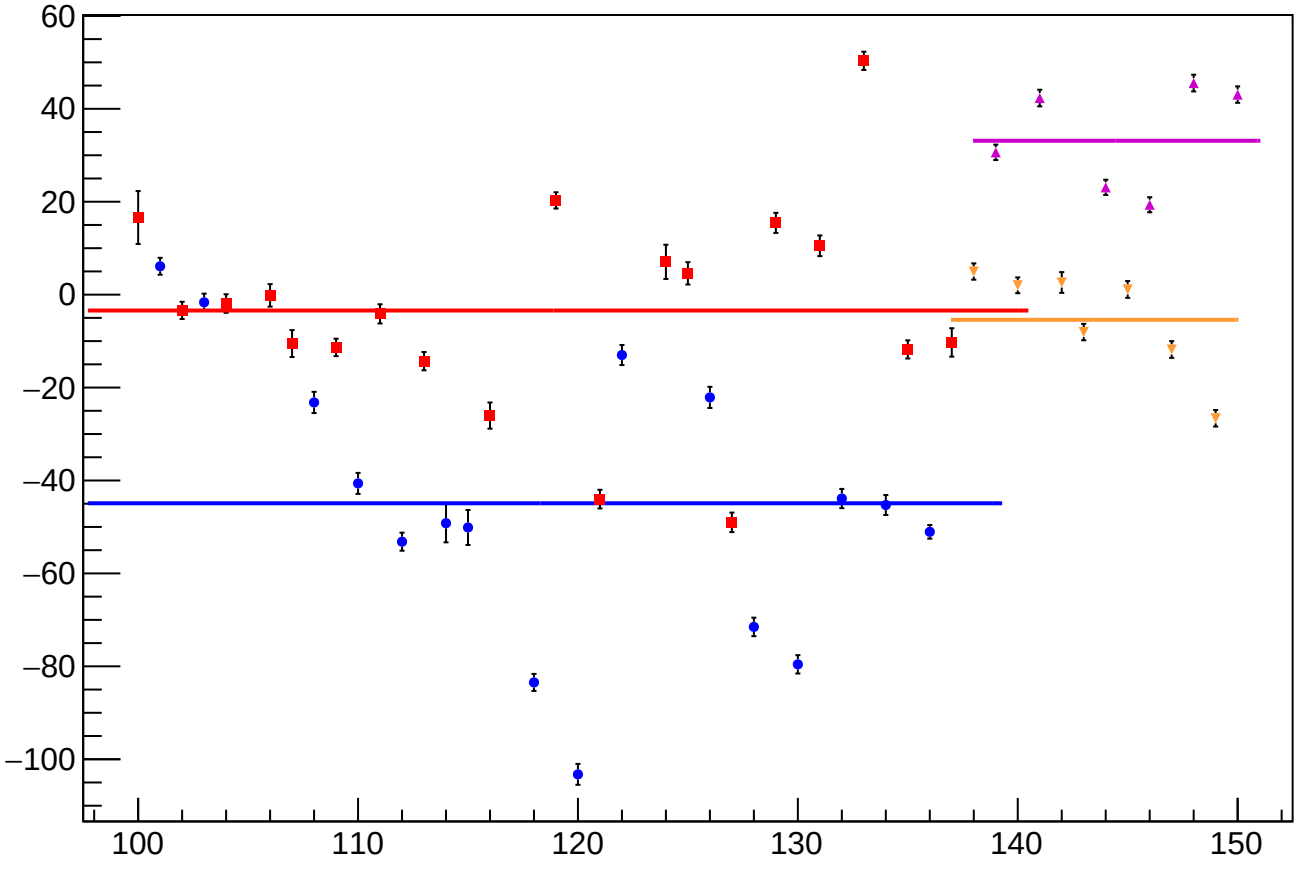
Right: 863.569+/-0.160 $\chi^2$/NDF: 232168.2/34

In: 855.391+/-0.172 $\chi^2$/NDF:175154.0/21

Out: 850.103+/-0.168 $\chi^2$/NDF:168139.6/25

All: 852.693+/-0.120 $\chi^2$/NDF: 343778.3/47

# diff_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -44.905+/-0.520 $\chi^2$/NDF: 3377.6/15

Left Out: -5.411+/-0.687 $\chi^2$/NDF:237.1/6

Right Out: -3.416+/-0.509 $\chi^2$/NDF: 2102.1/18

Left In: 33.122+/-0.697 $\chi^2$/NDF:217.7/5

Left: 13.565+/-0.489 $\chi^2$/NDF: 2006.1/12

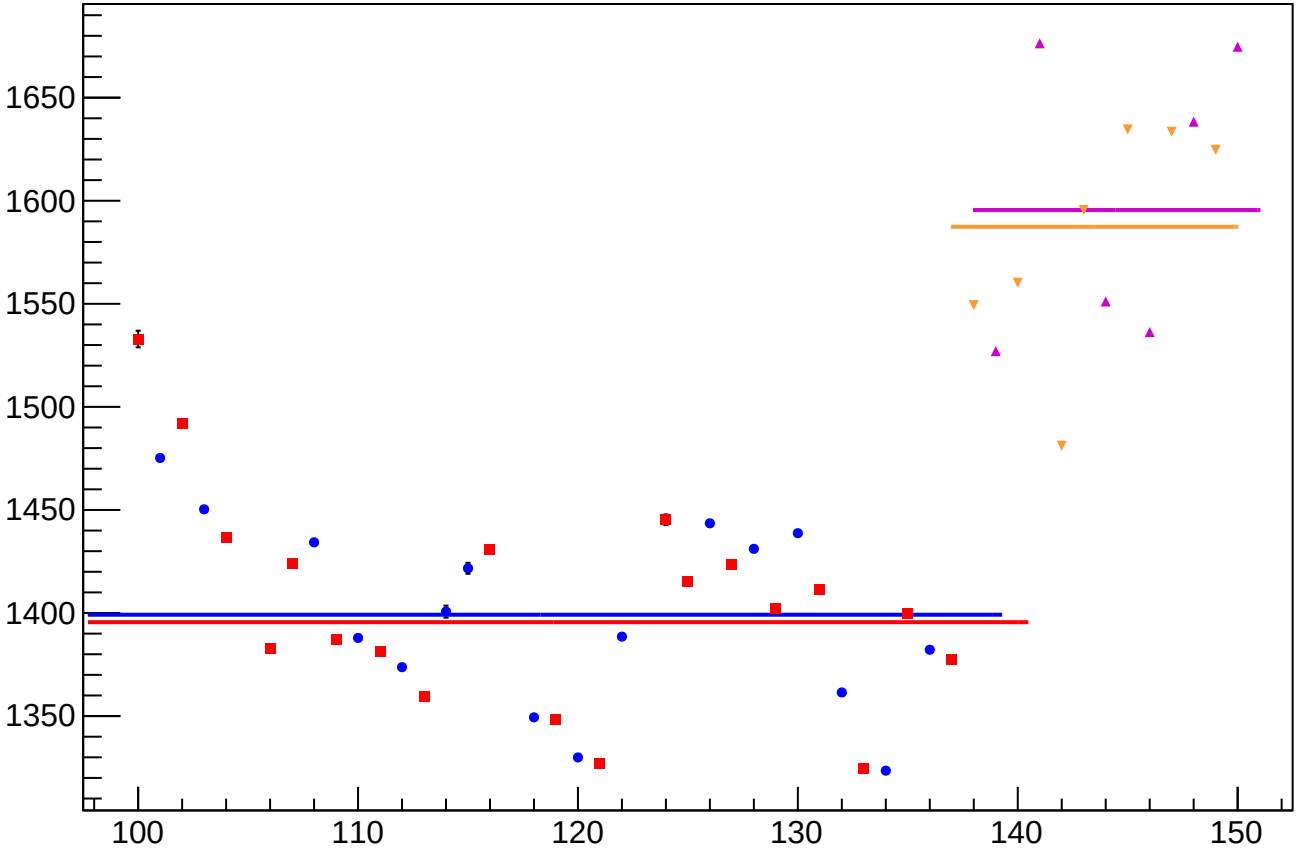
Right: -23.727+/-0.364 $\chi^2$/NDF: 8730.3/34

In: -17.010+/-0.417 $\chi^2$/NDF:11647.8/21

Out: -4.124+/-0.409 $\chi^2$/NDF:2344.6/25

All: -10.446+/-0.292 $\chi^2$/NDF: 14479.5/47

# diff_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 1399.172+/-0.368 $\chi^2$/NDF: 14844.1/15

Left Out: 1587.358+/-0.485 $\chi^2$/NDF:9583.8/6

Right Out: 1395.546+/-0.360 $\chi^2$/NDF: 16240.9/18

Left In: 1595.489+/-0.493 $\chi^2$/NDF:16785.5/5

Left: 1591.362+/-0.346 $\chi^2$/NDF: 26507.5/12

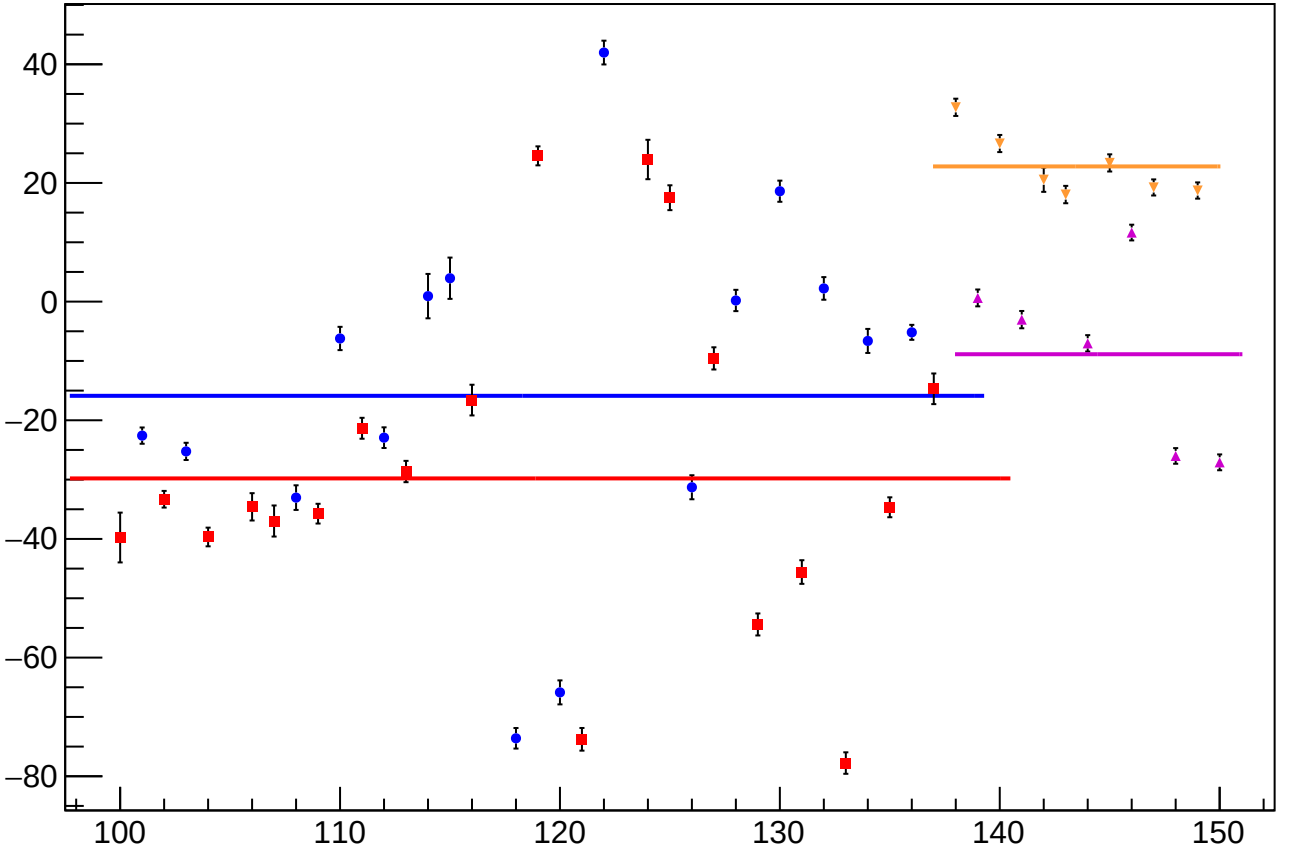
Right: 1397.321+/-0.257 $\chi^2$/NDF: 31134.7/34

In: 1469.357+/-0.295 $\chi^2$/NDF:133581.9/21

Out: 1463.607+/-0.289 $\chi^2$/NDF:126541.9/25

All: 1466.428+/-0.206 $\chi^2$/NDF: 260317.7/47

# diff_bpm0i02Y_mean vs Slug, Sign Corrected




Right In: -15.878+/-0.455 $\chi^2$/NDF: 3477.8/15

Left Out: 22.785+/-0.558 $\chi^2$/NDF:81.5/6

Right Out: -29.801+/-0.444 $\chi^2$/NDF: 3681.2/18

Left In: -8.869+/-0.559 $\chi^2$/NDF:657.4/5

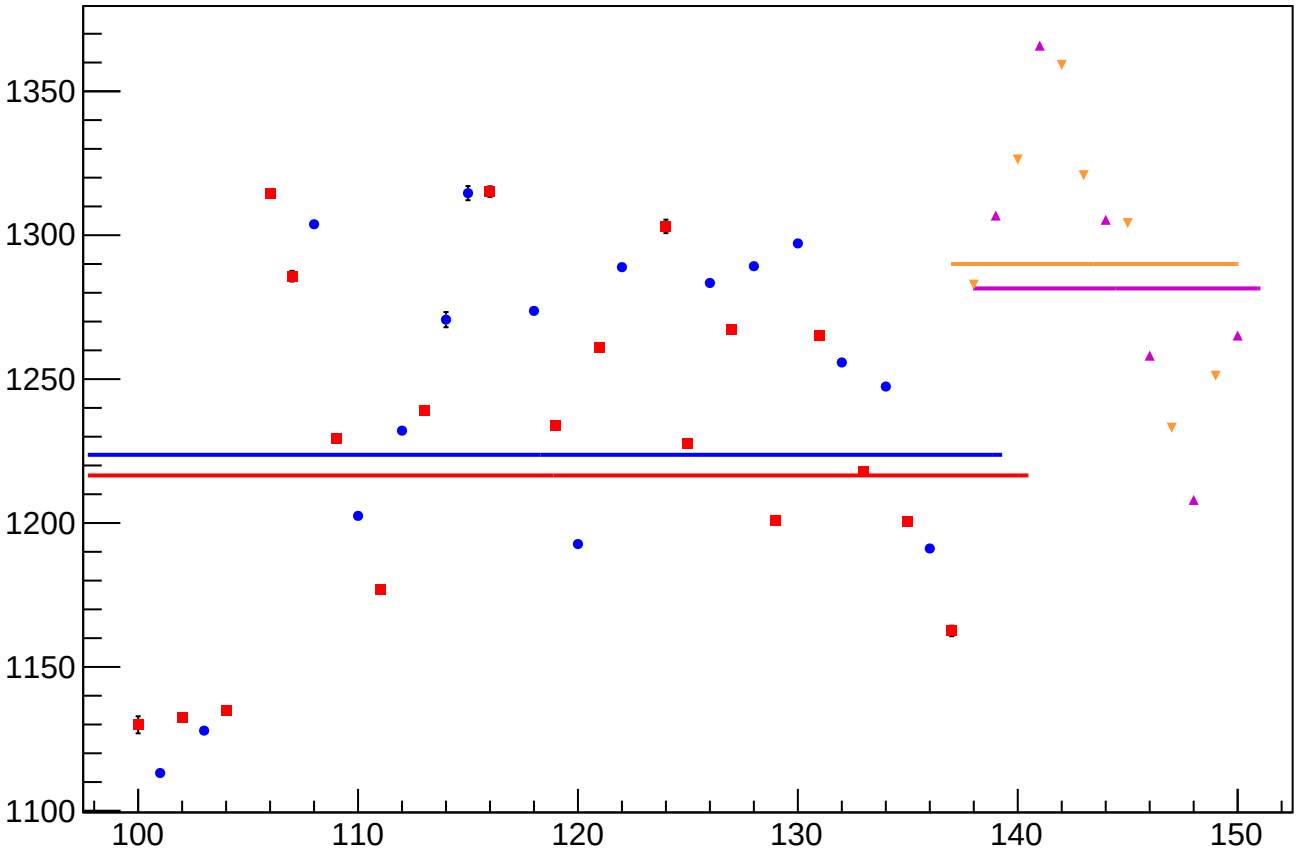
Left: 6.991+/-0.395 $\chi^2$/NDF: 2344.6/12

Right: -23.008+/-0.318 $\chi^2$/NDF: 7638.0/34

In: -13.084+/-0.353 $\chi^2$/NDF:4229.7/21

Out: -9.393+/-0.348 $\chi^2$/NDF:9197.5/25

All: -11.210+/-0.248 $\chi^2$/NDF: 13482.6/47




Right In: 1223.702+/-0.322 $\chi^2$/NDF: 40883.8/15

Left Out: 1290.001+/-0.395 $\chi^2$/NDF:9804.3/6

Right Out: 1216.533+/-0.314 $\chi^2$/NDF: 29381.0/18

Left In: 1281.506+/-0.395 $\chi^2$/NDF:15069.0/5

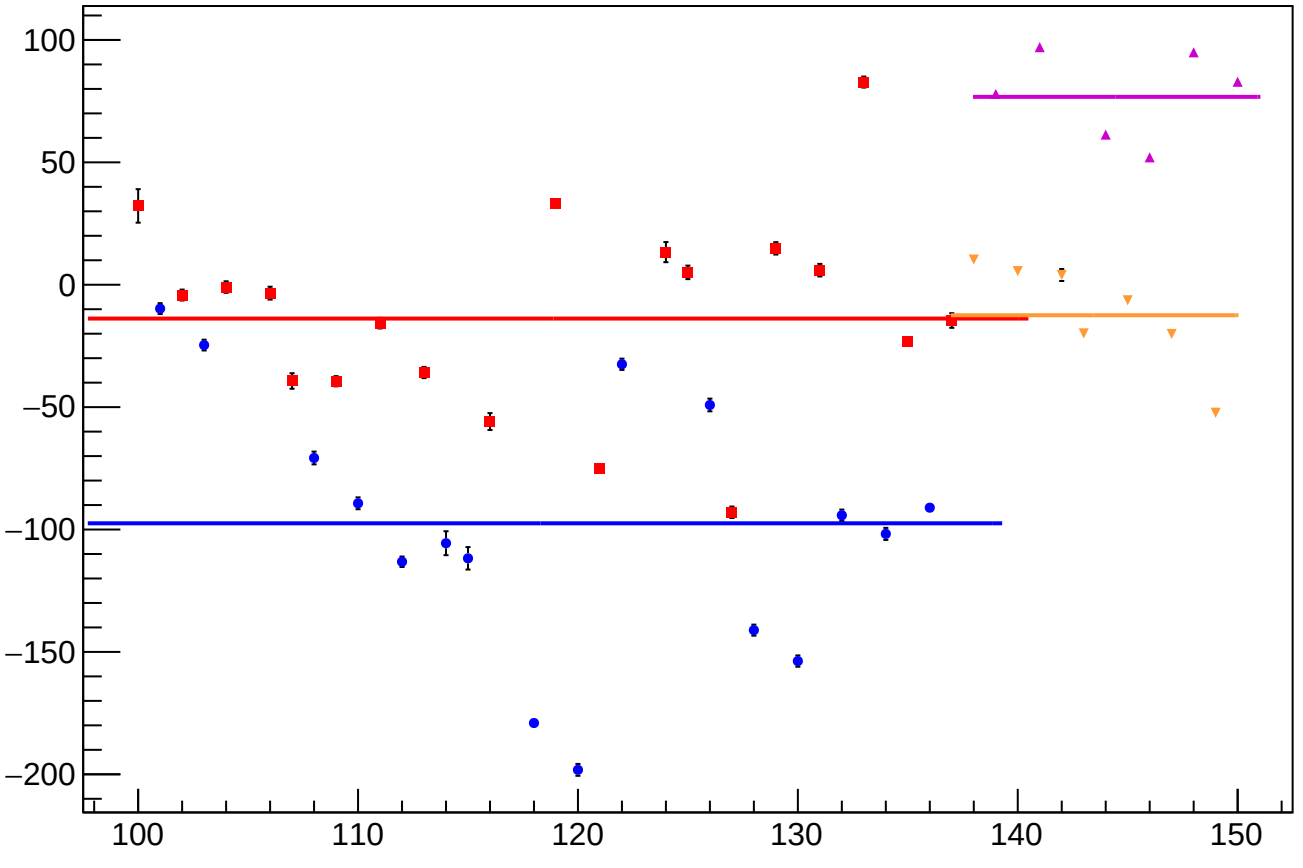
Left: 1285.762+/-0.279 $\chi^2$/NDF: 25104.5/12

Right: 1220.031+/-0.225 $\chi^2$/NDF: 70518.8/34

In: 1246.744+/-0.250 $\chi^2$/NDF:68806.7/21

Out: 1245.044+/-0.246 $\chi^2$/NDF:60401.5/25

All: 1245.881+/-0.175 $\chi^2$/NDF: 129231.8/47




Right In: -97.455+/-0.579 $\chi^2$/NDF: 8300.2/15

Left Out: -12.459+/-0.703 $\chi^2$/NDF:846.2/6

Right Out: -13.816+/-0.566 $\chi^2$/NDF: 5352.2/18

Left In: 76.758+/-0.708 $\chi^2$/NDF:549.1/5

Left: 31.821+/-0.499 $\chi^2$/NDF: 9397.6/12

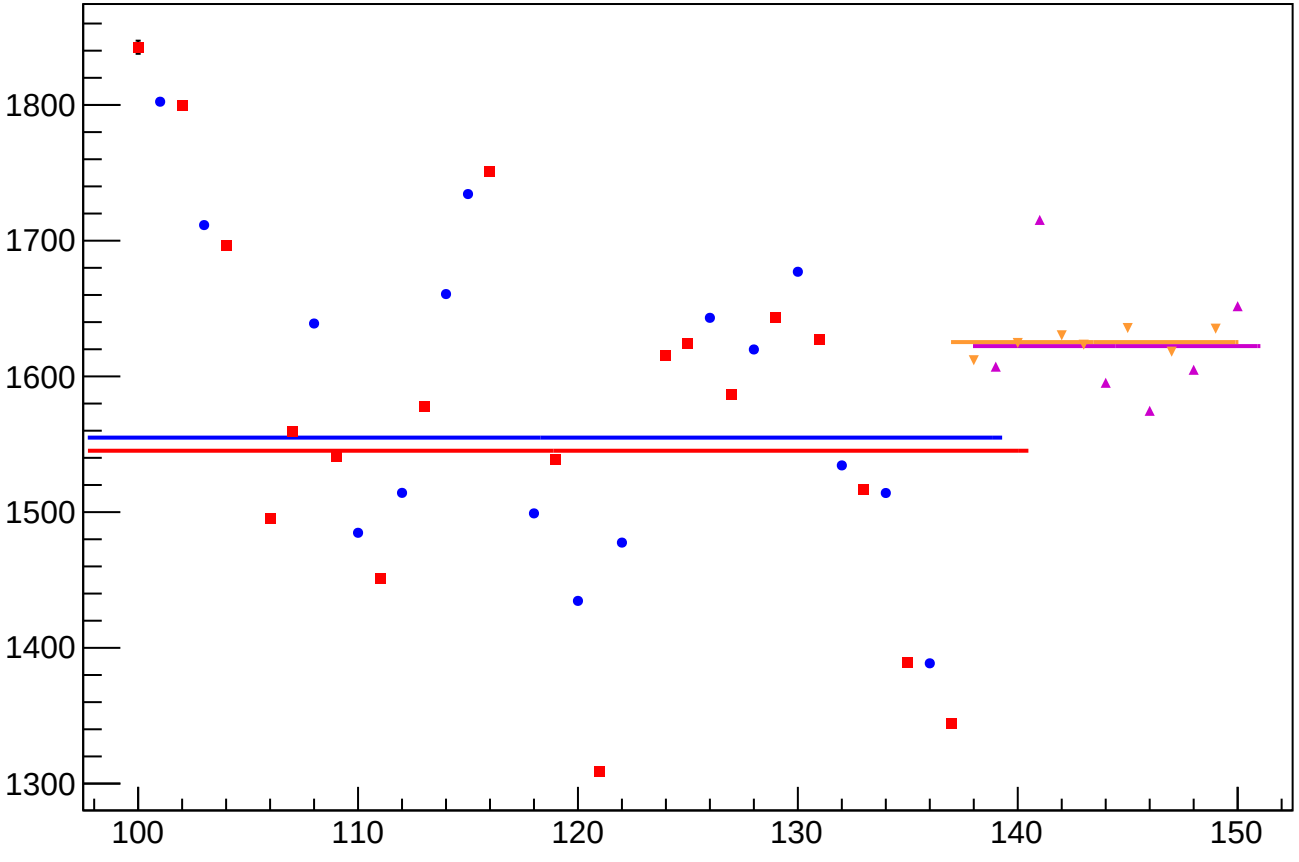
Right: -54.632+/-0.405 $\chi^2$/NDF: 24320.8/34

In: -27.553+/-0.448 $\chi^2$/NDF:45122.1/21

Out: -13.282+/-0.441 $\chi^2$/NDF:6200.6/25

All: -20.294+/-0.314 $\chi^2$/NDF: 51838.1/47

# diff_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 1554.908+/-0.410 $\chi^2$/NDF: 87920.1/15

Left Out: 1625.291+/-0.497 $\chi^2$/NDF:275.9/6

Right Out: 1545.239+/-0.400 $\chi^2$/NDF: 108789.4/18

Left In: 1622.336+/-0.500 $\chi^2$/NDF:8248.3/5

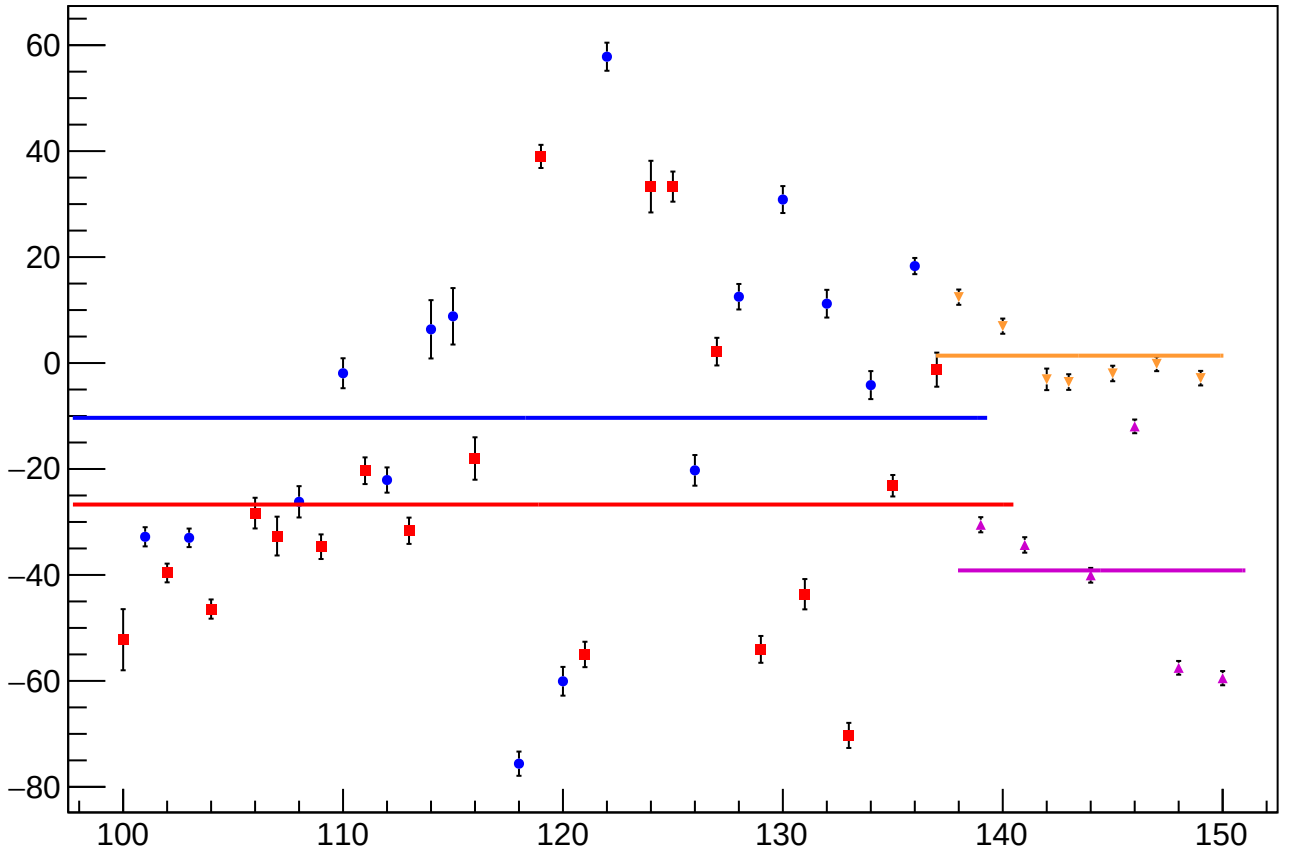
Left: 1623.824+/-0.353 $\chi^2$/NDF: 8541.7/12

Right: 1549.957+/-0.286 $\chi^2$/NDF: 196994.7/34

In: 1581.963+/-0.317 $\chi^2$/NDF:107035.8/21

Out: 1576.721+/-0.312 $\chi^2$/NDF:124817.4/25

All: 1579.297+/-0.222 $\chi^2$/NDF: 231992.4/47




Right In: -10.345+/-0.603 $\chi^2$/NDF: 3007.0/15

Left Out: 1.395+/-0.560 $\chi^2$/NDF:105.9/6

Right Out: -26.709+/-0.586 $\chi^2$/NDF: 2540.7/18

Left In: -39.145+/-0.557 $\chi^2$/NDF:919.3/5

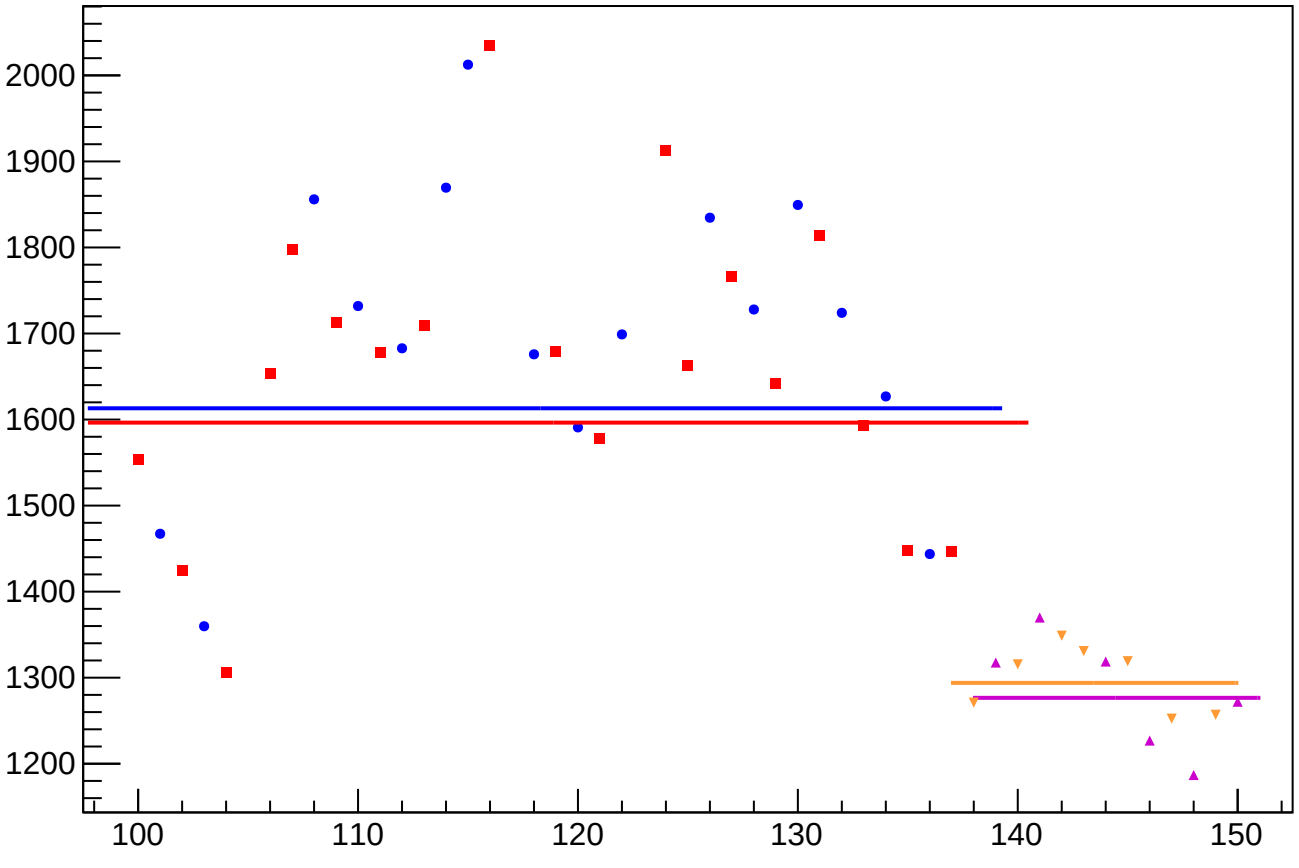
Left: -18.959+/-0.395 $\chi^2$/NDF: 3658.3/12

Right: -18.758+/-0.420 $\chi^2$/NDF: 5926.2/34

In: -25.876+/-0.409 $\chi^2$/NDF:5155.9/21

Out: -12.006+/-0.405 $\chi^2$/NDF:3848.5/25

All: -18.865+/-0.288 $\chi^2$/NDF: 9584.6/47




Right In: 1613.094+/-0.426 $\chi^2$/NDF: 154710.6/15

Left Out: 1293.941+/-0.396 $\chi^2$/NDF:7532.7/6

Right Out: 1596.442+/-0.415 $\chi^2$/NDF: 160714.8/18

Left In: 1276.565+/-0.394 $\chi^2$/NDF:24173.0/5

Left: 1285.217+/-0.279 $\chi^2$/NDF: 32673.1/12

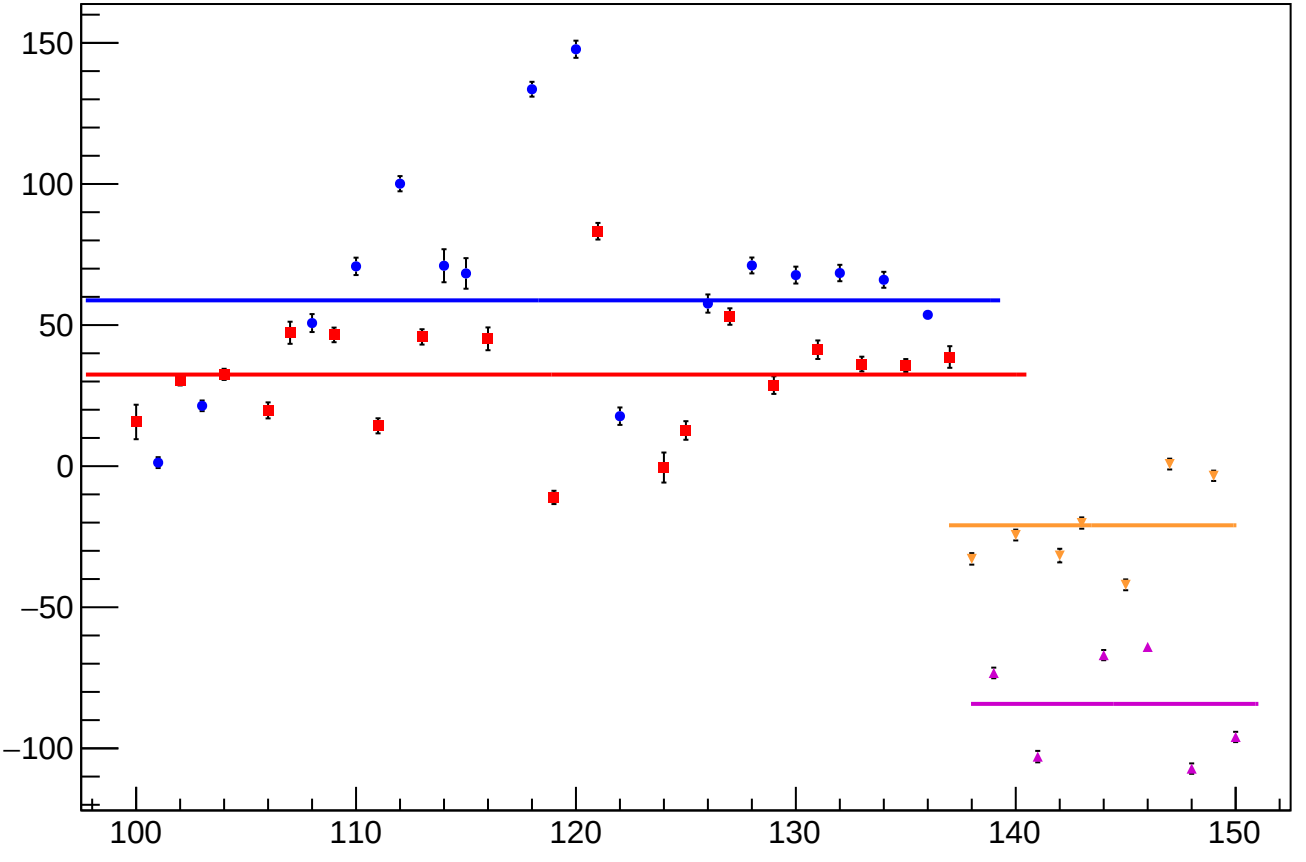
Right: 1604.533+/-0.297 $\chi^2$/NDF: 316209.2/34

In: 1431.613+/-0.289 $\chi^2$/NDF:514663.3/21

Out: 1438.187+/-0.286 $\chi^2$/NDF:446723.4/25

All: 1434.936+/-0.204 $\chi^2$/NDF: 961647.5/47

# diff_bpm0i05X_mean vs Slug, Sign Corrected




Right In: 58.761+/-0.672 $\chi^2$/NDF: 3443.3/15

Left Out: -20.955+/-0.750 $\chi^2$/NDF:398.1/6

Right Out: 32.467+/-0.648 $\chi^2$/NDF: 930.8/18

Left In: -84.240+/-0.757 $\chi^2$/NDF:536.5/5

Left: -52.327+/-0.533 $\chi^2$/NDF: 4461.0/12

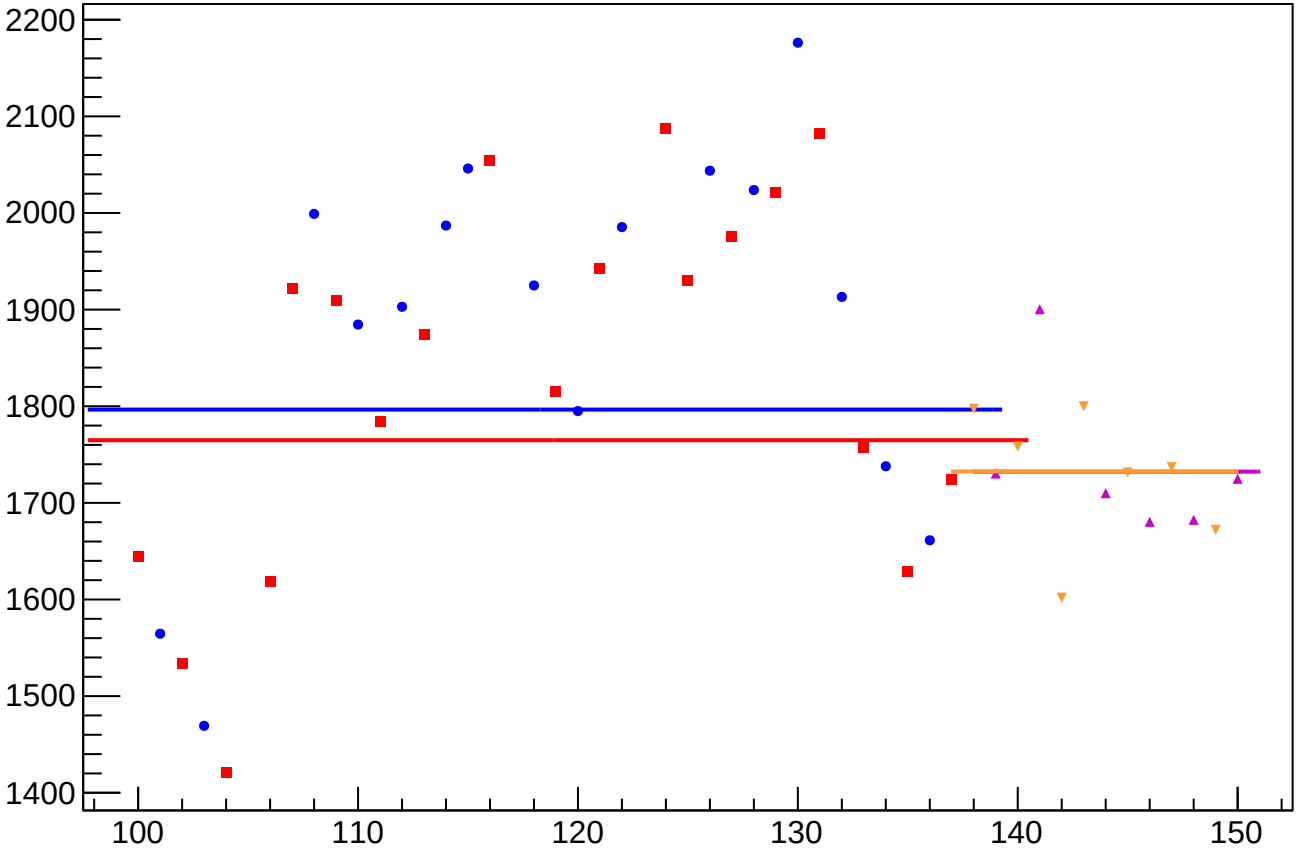
Right: 45.136+/-0.467 $\chi^2$/NDF: 5166.5/34

In: -4.331+/-0.503 $\chi^2$/NDF:23932.2/21

Out: 9.627+/-0.491 $\chi^2$/NDF:4230.7/25

All: 2.817+/-0.351 $\chi^2$/NDF: 28557.8/47

# diff_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 1796.555+/-0.475 $\chi^2$/NDF: 193171.9/15

Left Out: 1732.505+/-0.531 $\chi^2$/NDF:12714.8/6

Right Out: 1764.860+/-0.459 $\chi^2$/NDF: 189987.9/18

Left In: 1732.311+/-0.535 $\chi^2$/NDF:17238.3/5

Left: 1732.409+/-0.377 $\chi^2$/NDF: 29953.2/12

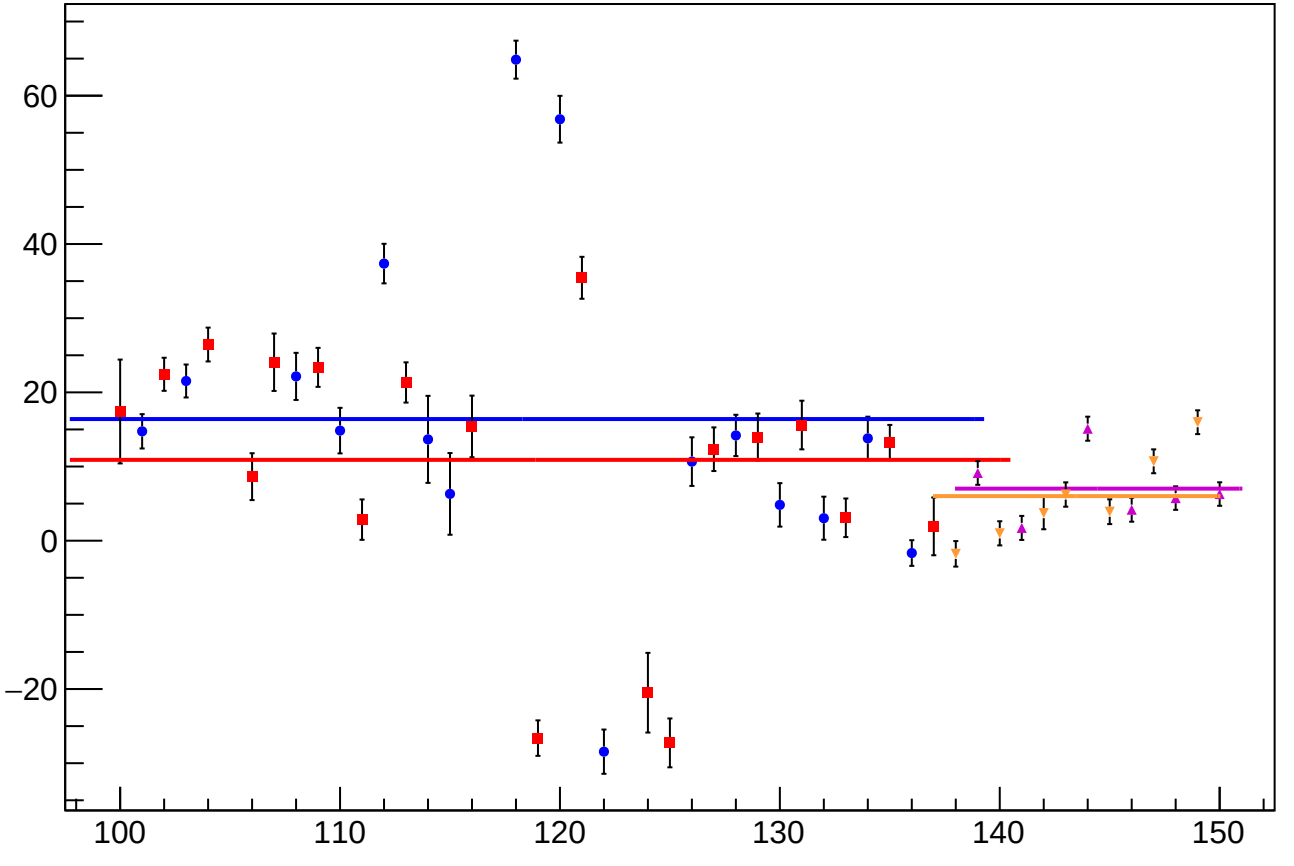
Right: 1780.131+/-0.330 $\chi^2$/NDF: 385462.0/34

In: 1768.210+/-0.355 $\chi^2$/NDF:218464.1/21

Out: 1751.027+/-0.347 $\chi^2$/NDF:204831.7/25

All: 1759.410+/-0.248 $\chi^2$/NDF: 424492.7/47

# diff_bpm0i05Y_mean vs Slug, Sign Corrected




Right In: 16.400+/-0.695 $\chi^2$/NDF: 973.0/15

Left Out: 6.010+/-0.642 $\chi^2$/NDF:79.7/6

Right Out: 10.899+/-0.676 $\chi^2$/NDF: 641.7/18

Left In: 7.019+/-0.655 $\chi^2$/NDF:41.3/5

Left: 6.504+/-0.458 $\chi^2$/NDF: 122.2/12

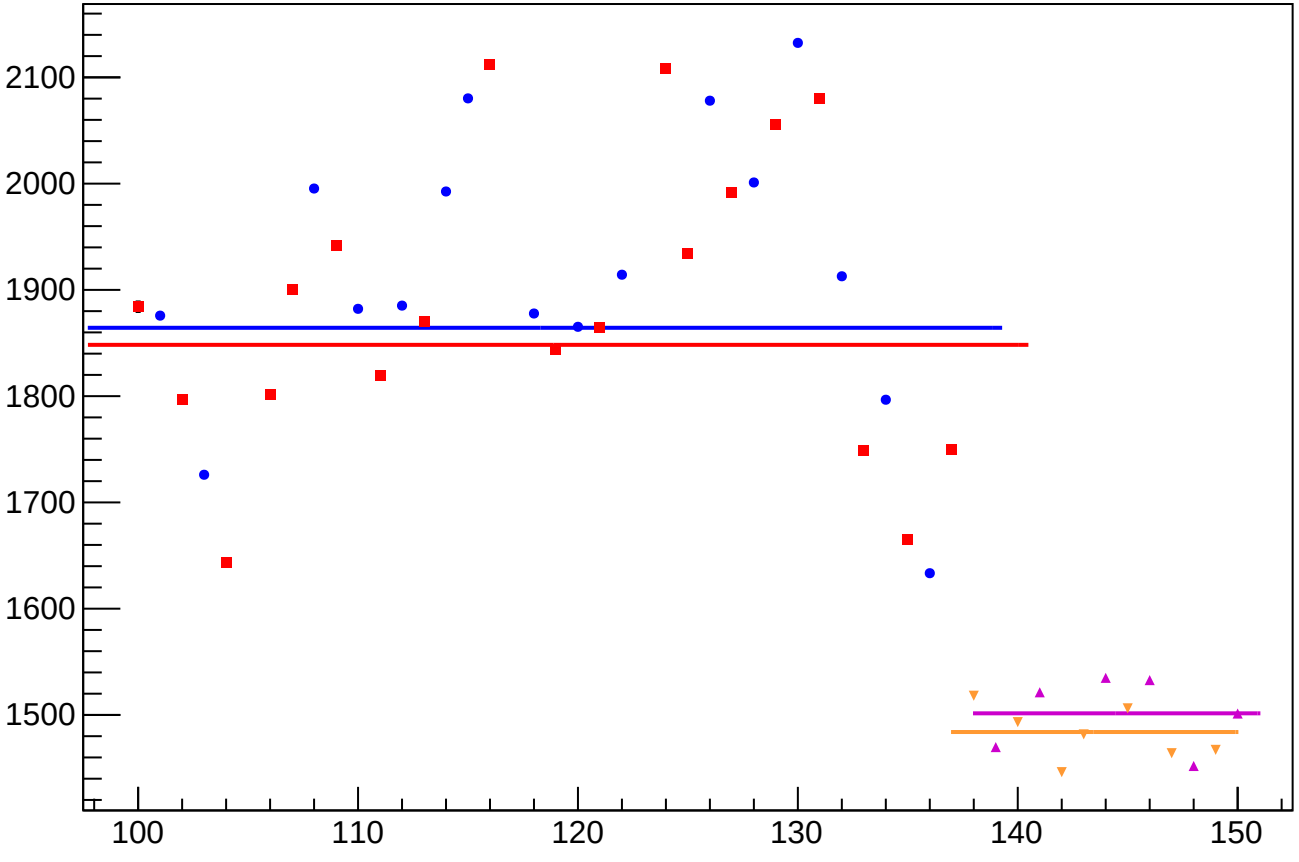
Right: 13.575+/-0.485 $\chi^2$/NDF: 1646.8/34

In: 11.431+/-0.477 $\chi^2$/NDF:1110.7/21

Out: 8.326+/-0.465 $\chi^2$/NDF:748.9/25

All: 9.842+/-0.333 $\chi^2$/NDF: 1881.4/47

# diff_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 1864.335+/-0.491 $\chi^2$/NDF: 83311.5/15

Left Out: 1483.935+/-0.454 $\chi^2$/NDF:2339.8/6

Right Out: 1848.284+/-0.478 $\chi^2$/NDF: 74956.9/18

Left In: 1501.515+/-0.463 $\chi^2$/NDF:4642.2/5

Left: 1492.545+/-0.324 $\chi^2$/NDF: 7717.4/12

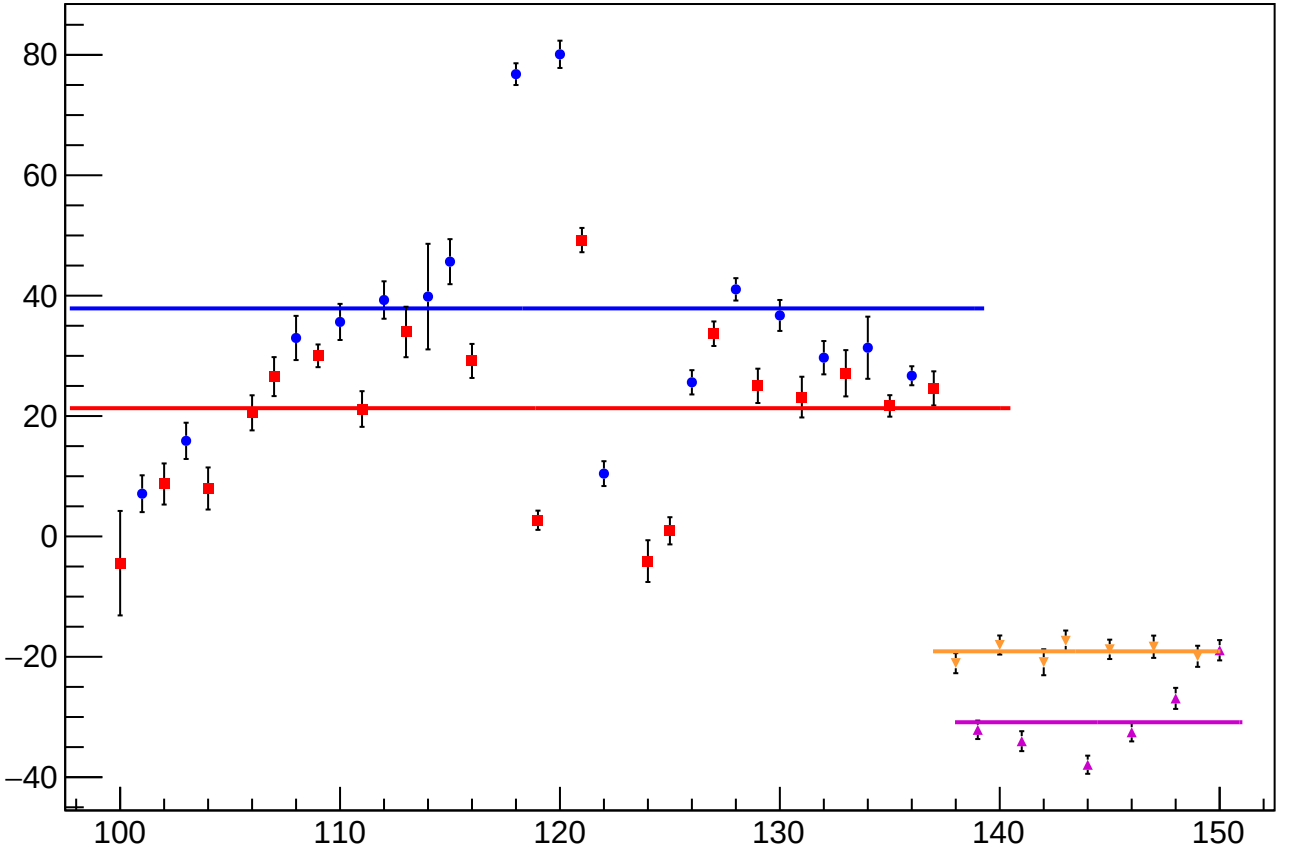
Right: 1856.091+/-0.343 $\chi^2$/NDF: 158816.4/34

In: 1672.149+/-0.337 $\chi^2$/NDF:376694.3/21

Out: 1656.523+/-0.329 $\chi^2$/NDF:382847.9/25

All: 1664.151+/-0.235 $\chi^2$/NDF: 760642.6/47

# diff_bpm0i07X_mean vs Slug, Sign Corrected




Right In: 37.880+/-0.622 $\chi^2$/NDF: 1249.8/15

Left Out: -19.092+/-0.657 $\chi^2$/NDF:4.0/6

Right Out: 21.306+/-0.593 $\chi^2$/NDF: 582.6/18

Left In: -30.870+/-0.654 $\chi^2$/NDF:82.8/5

Left: -25.008+/-0.463 $\chi^2$/NDF: 248.4/12

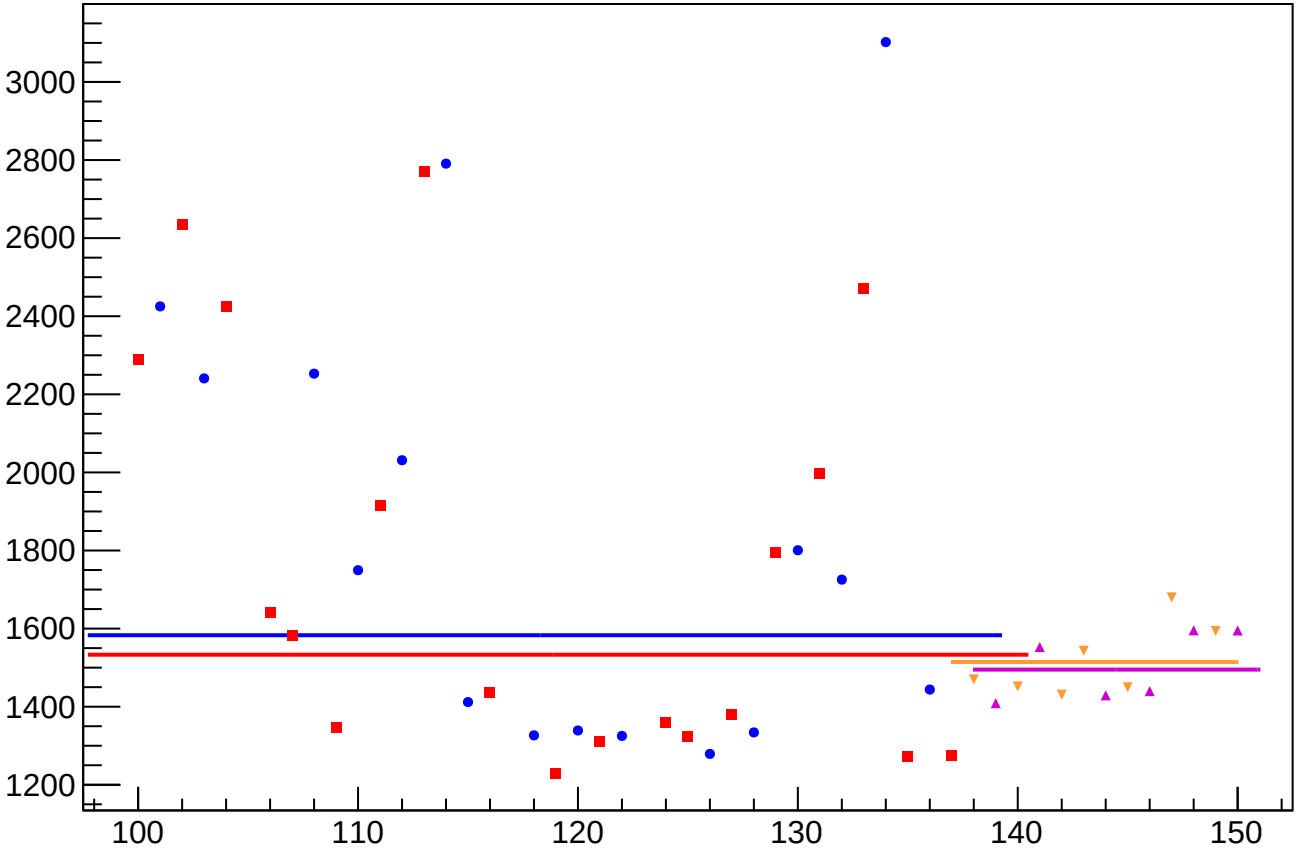
Right: 29.192+/-0.429 $\chi^2$/NDF: 2204.2/34

In: 5.190+/-0.451 $\chi^2$/NDF:7135.0/21

Out: 3.162+/-0.440 $\chi^2$/NDF:2671.5/25

All: 4.152+/-0.315 $\chi^2$/NDF: 9816.9/47

# diff_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 1583.050+/-0.440 $\chi^2$/NDF: 787672.4/15

Left Out: 1514.404+/-0.464 $\chi^2$/NDF:31438.3/6

Right Out: 1533.190+/-0.419 $\chi^2$/NDF: 950777.4/18

Left In: 1494.996+/-0.462 $\chi^2$/NDF:28849.4/5

Left: 1504.655+/-0.328 $\chi^2$/NDF: 61165.3/12

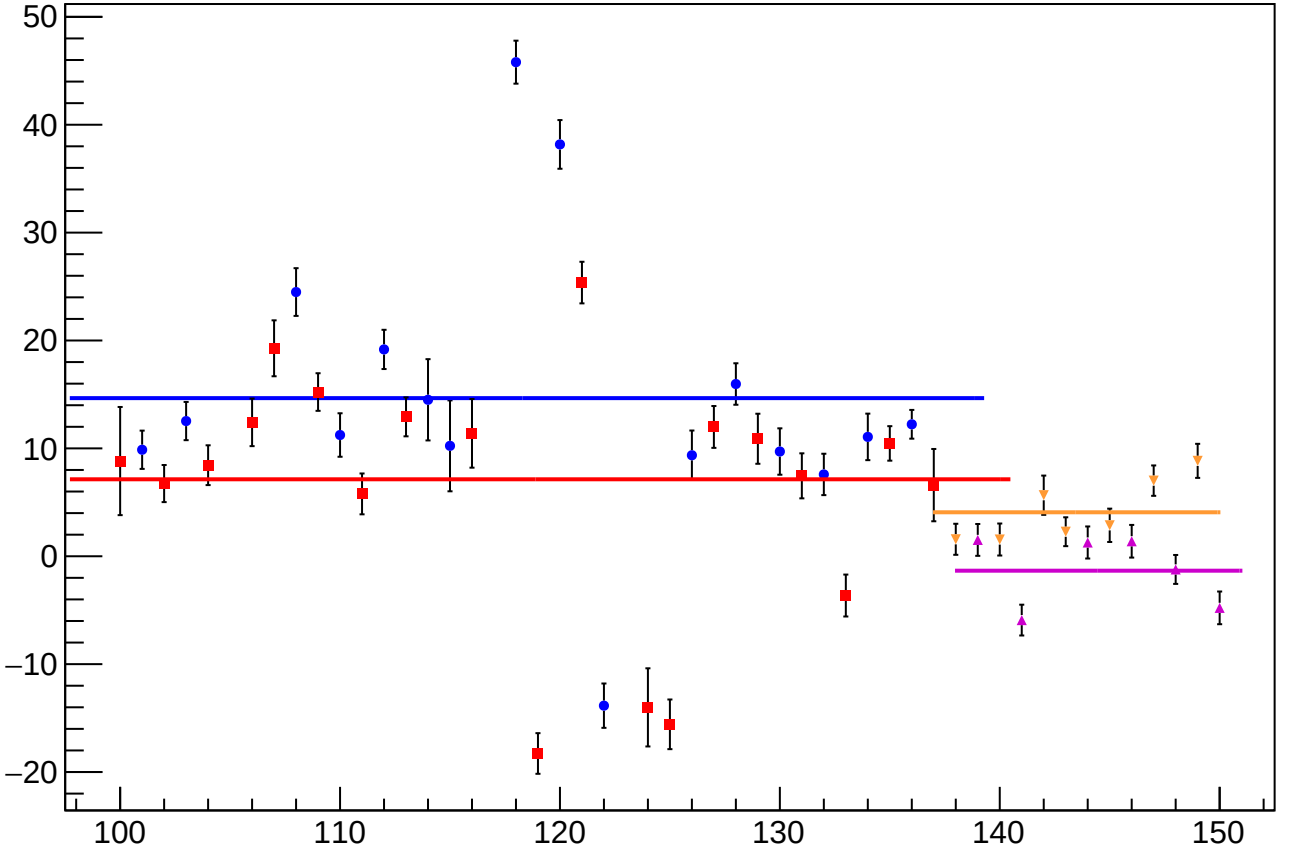
Right: 1556.913+/-0.304 $\chi^2$/NDF: 1745178.6/34

In: 1541.181+/-0.319 $\chi^2$/NDF:835557.9/21

Out: 1524.753+/-0.311 $\chi^2$/NDF:983117.3/25

All: 1532.770+/-0.223 $\chi^2$/NDF: 1820035.5/47

# diff_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 14.658+/-0.504 $\chi^2$/NDF: 614.8/15

Left Out: 4.076+/-0.566 $\chi^2$/NDF:22.6/6

Right Out: 7.135+/-0.483 $\chi^2$/NDF: 509.4/18

Left In: -1.337+/-0.594 $\chi^2$/NDF:25.5/5

Left: 1.502+/-0.410 $\chi^2$/NDF: 91.6/12

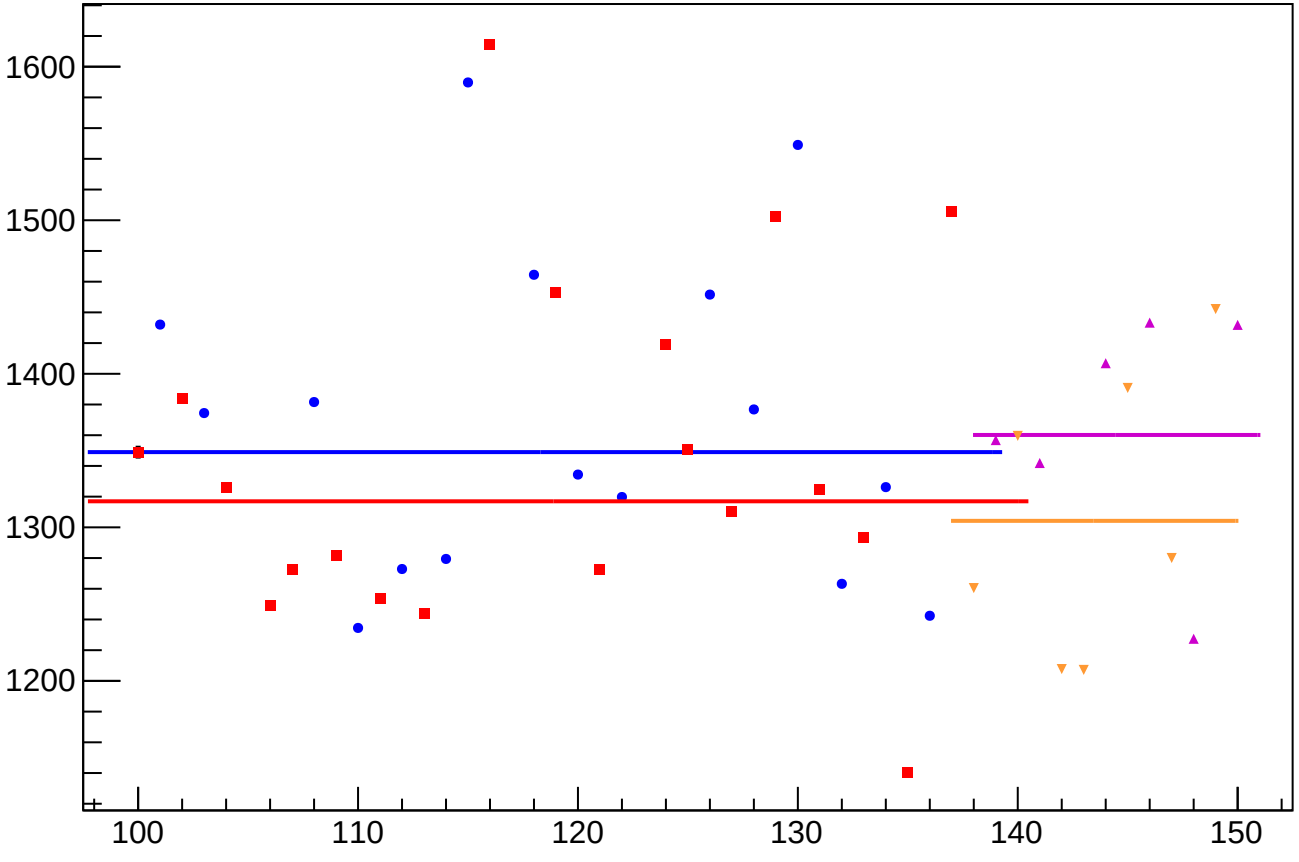
Right: 10.734+/-0.349 $\chi^2$/NDF: 1240.2/34

In: 7.960+/-0.385 $\chi^2$/NDF:1061.3/21

Out: 5.845+/-0.367 $\chi^2$/NDF:548.9/25

All: 6.854+/-0.266 $\chi^2$/NDF: 1626.0/47

# diff_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 1349.000+/-0.357 $\chi^2$/NDF: 68383.7/15

Left Out: 1304.231+/-0.400 $\chi^2$/NDF:42941.4/6

Right Out: 1316.961+/-0.342 $\chi^2$/NDF: 86873.7/18

Left In: 1360.166+/-0.420 $\chi^2$/NDF:31066.7/5

Left: 1330.824+/-0.290 $\chi^2$/NDF: 83299.6/12

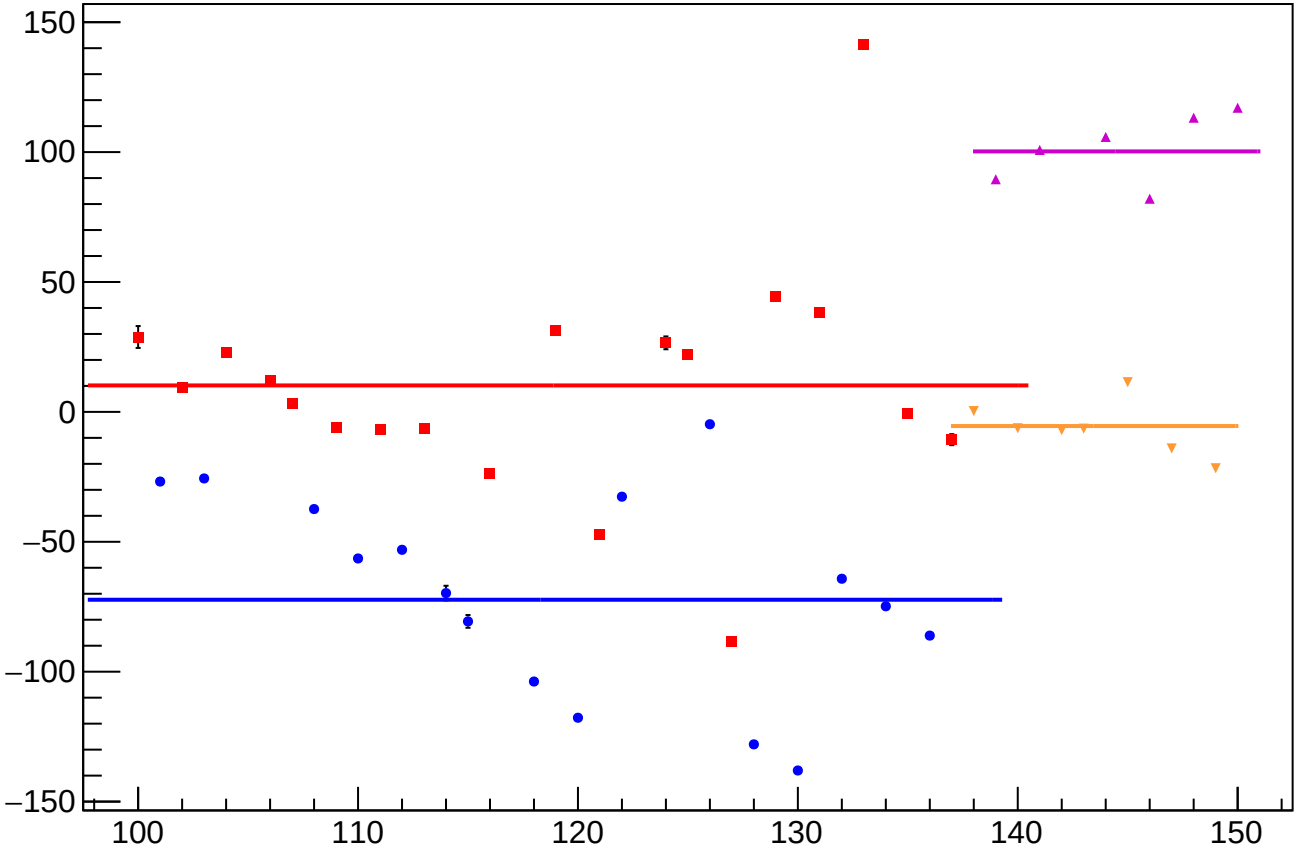
Right: 1332.289+/-0.247 $\chi^2$/NDF: 159464.7/34

In: 1353.676+/-0.272 $\chi^2$/NDF:99860.6/21

Out: 1311.593+/-0.260 $\chi^2$/NDF:130400.4/25

All: 1331.674+/-0.188 $\chi^2$/NDF: 242779.1/47

# diff_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -72.304+/-0.349 $\chi^2$/NDF: 12153.8/15

Left Out: -5.446+/-0.416 $\chi^2$/NDF:554.5/6

Right Out: 10.188+/-0.345 $\chi^2$/NDF: 19045.9/18

Left In: 100.264+/-0.424 $\chi^2$/NDF:825.8/5

Left: 46.482+/-0.297 $\chi^2$/NDF: 33042.3/12

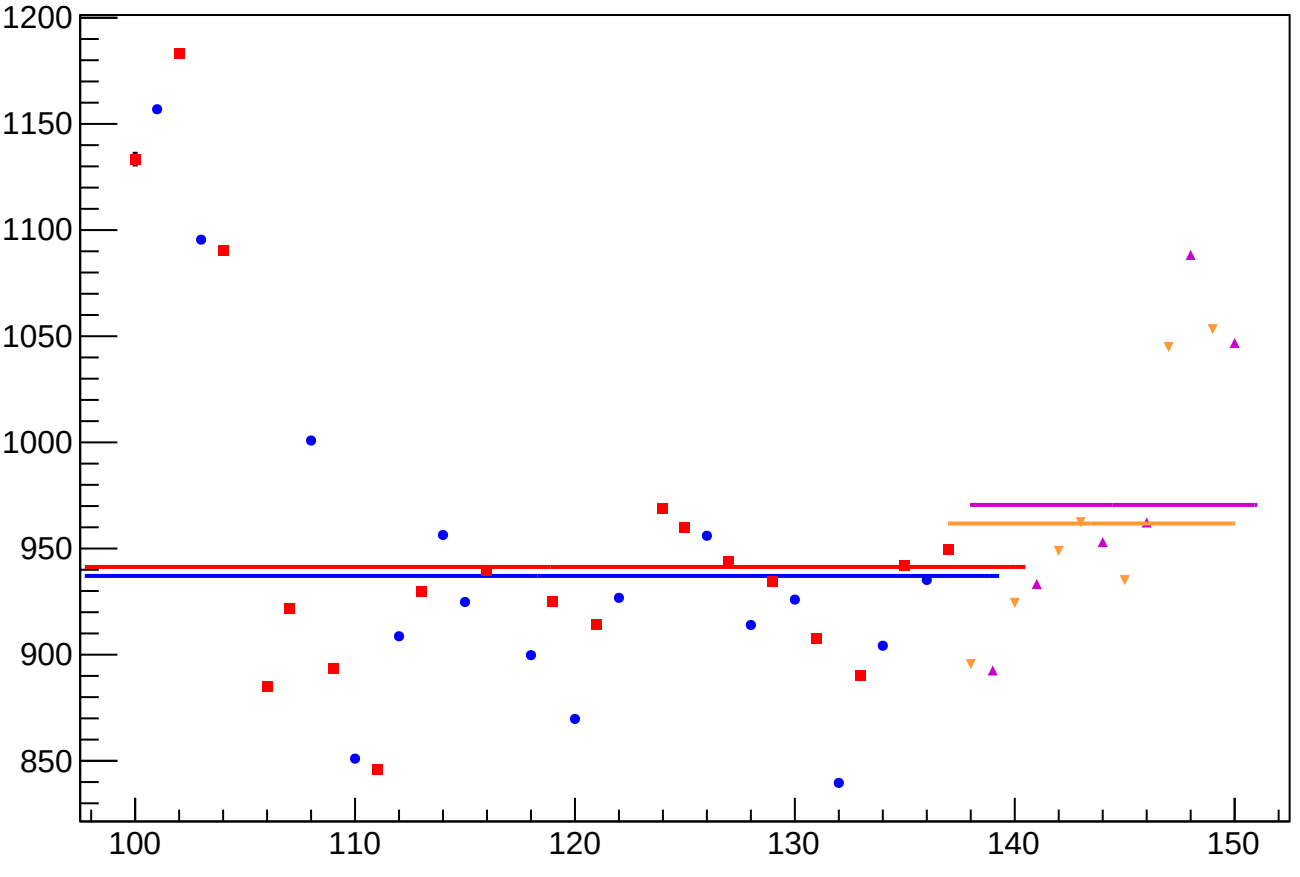
Right: -30.473+/-0.245 $\chi^2$/NDF: 59456.9/34

In: -2.450+/-0.270 $\chi^2$/NDF:111692.0/21

Out: 3.834+/-0.265 $\chi^2$/NDF:20437.3/25

All: 0.741+/-0.189 $\chi^2$/NDF: 132405.2/47

# diff_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 937.097+/-0.247 $\chi^2$/NDF: 104660.4/15

Left Out: 961.779+/-0.294 $\chi^2$/NDF:35859.5/6

Right Out: 941.323+/-0.244 $\chi^2$/NDF: 101031.2/18

Left In: 970.530+/-0.300 $\chi^2$/NDF:45663.4/5

Left: 966.078+/-0.210 $\chi^2$/NDF: 81956.9/12

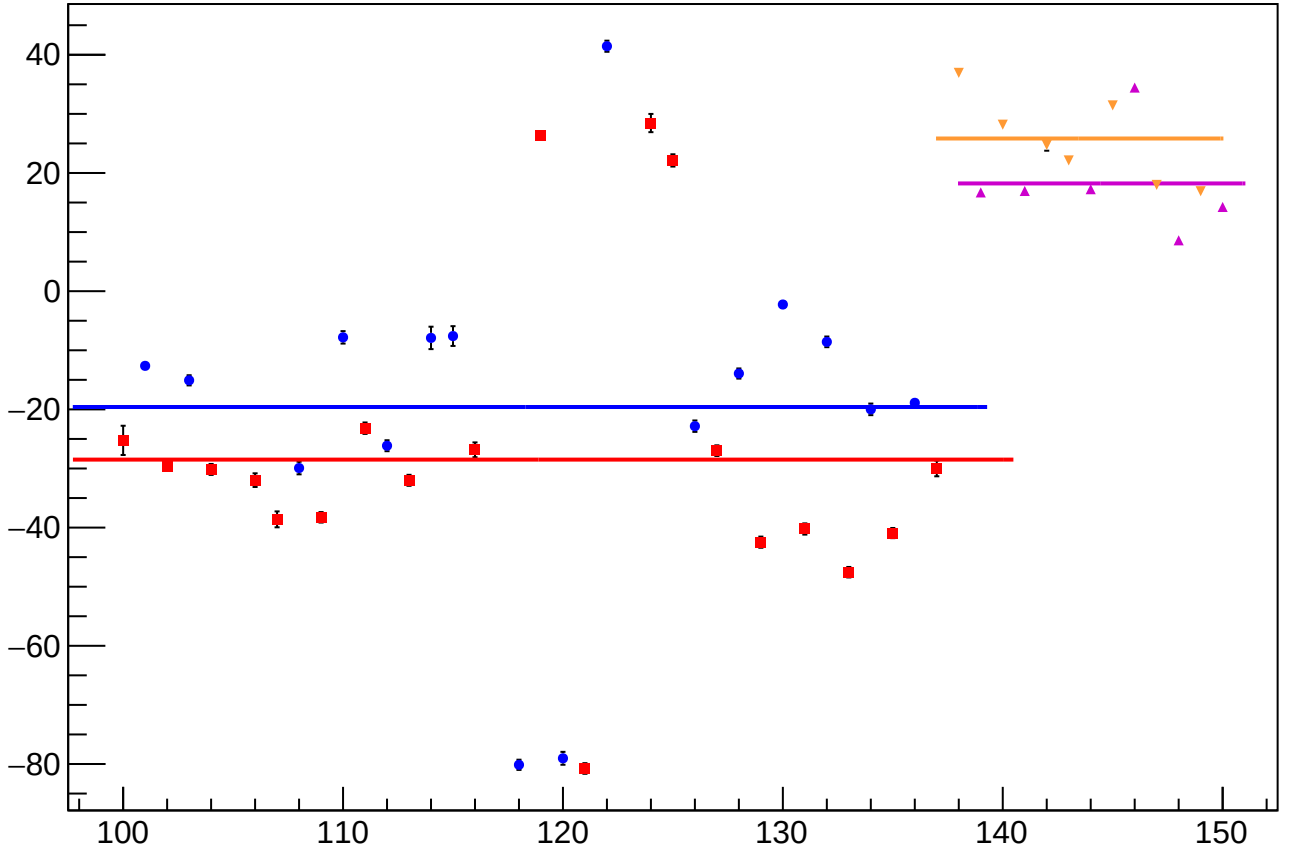
Right: 939.240+/-0.173 $\chi^2$/NDF: 205839.9/34

In: 950.631+/-0.191 $\chi^2$/NDF:157733.9/21

Out: 949.637+/-0.188 $\chi^2$/NDF:139756.1/25

All: 950.126+/-0.134 $\chi^2$/NDF: 297503.8/47

# diff_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: -19.597+/-0.234 $\chi^2$/NDF: 13170.1/15

Left Out: 25.834+/-0.284 $\chi^2$/NDF:581.0/6

Right Out: -28.496+/-0.230 $\chi^2$/NDF: 12971.2/18

Left In: 18.231+/-0.293 $\chi^2$/NDF:692.7/5

Left: 22.152+/-0.204 $\chi^2$/NDF: 1620.1/12

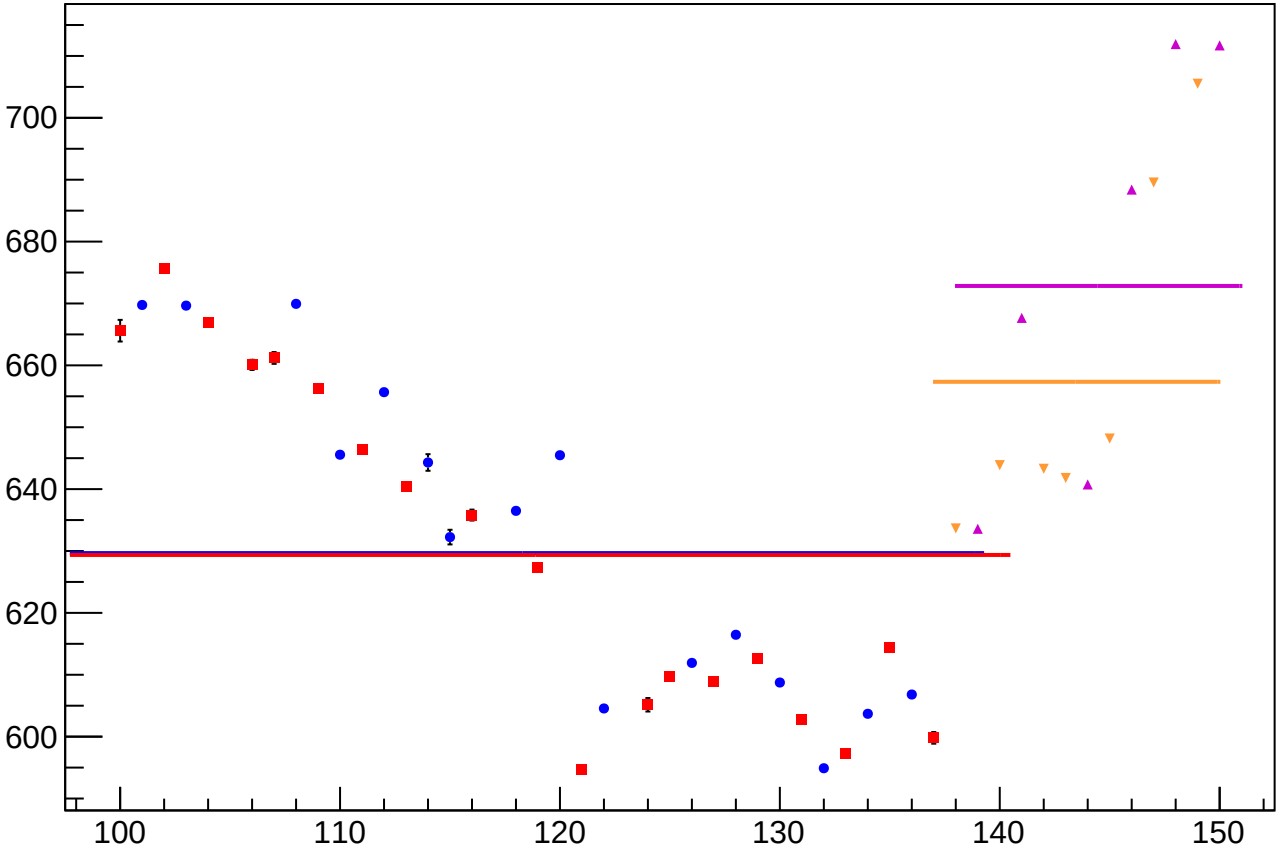
Right: -24.130+/-0.164 $\chi^2$/NDF: 26877.8/34

In: -4.883+/-0.183 $\chi^2$/NDF:24023.1/21

Out: -7.037+/-0.179 $\chi^2$/NDF:35654.0/25

All: -5.985+/-0.128 $\chi^2$/NDF: 59748.1/47

# diff_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 629.660+/-0.166 $\chi^2$/NDF: 25315.5/15

Left Out: 657.341+/-0.201 $\chi^2$/NDF:16024.1/6

Right Out: 629.361+/-0.162 $\chi^2$/NDF: 26791.2/18

Left In: 672.833+/-0.207 $\chi^2$/NDF:22461.1/5

Left: 664.843+/-0.144 $\chi^2$/NDF: 41362.0/12

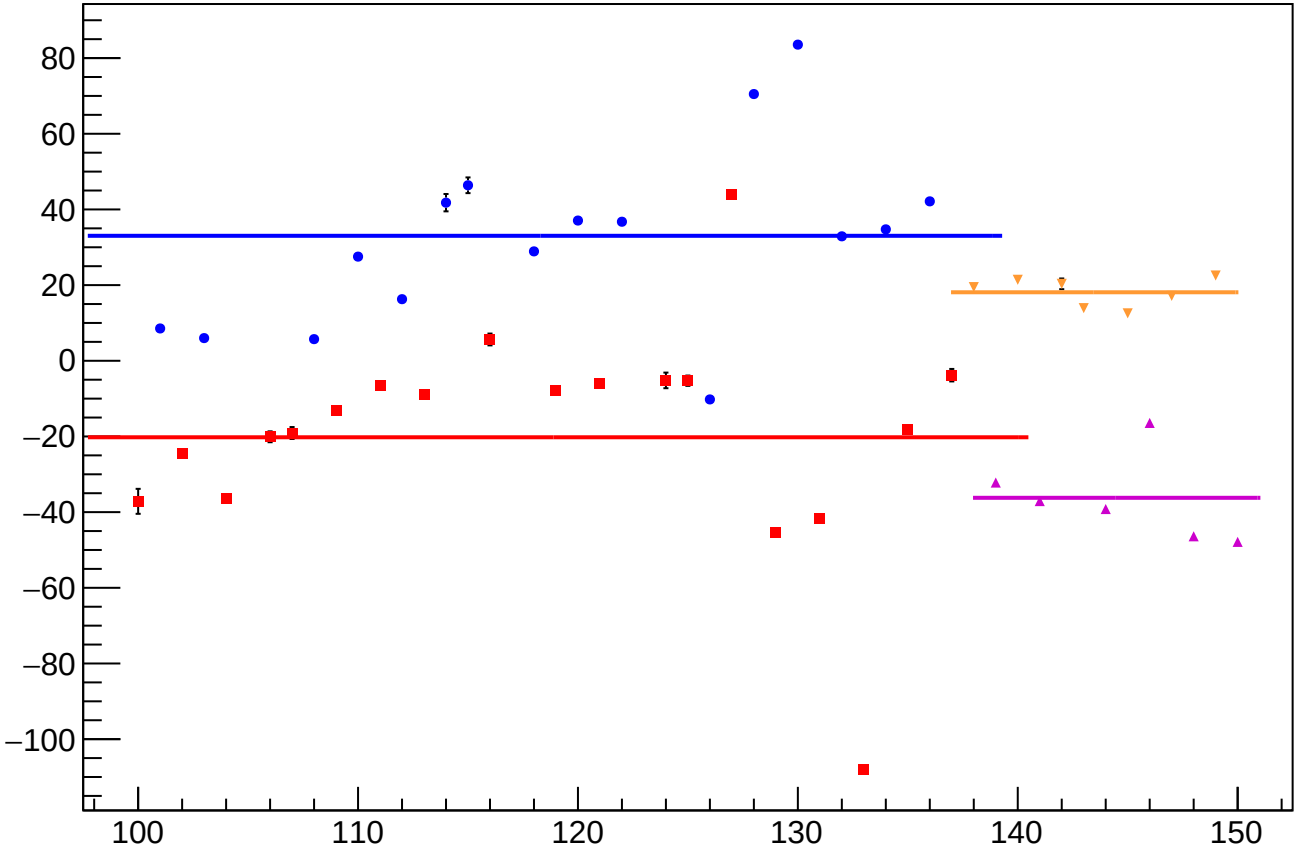
Right: 629.508+/-0.116 $\chi^2$/NDF: 52108.4/34

In: 646.453+/-0.129 $\chi^2$/NDF:74246.2/21

Out: 640.413+/-0.126 $\chi^2$/NDF:54539.4/25

All: 643.361+/-0.090 $\chi^2$/NDF: 129901.7/47

# diff_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 33.033+/-0.289 $\chi^2$/NDF: 6700.1/15

Left Out: 18.107+/-0.432 $\chi^2$/NDF:68.1/6

Right Out: -20.215+/-0.286 $\chi^2$/NDF: 11869.7/18

Left In: -36.212+/-0.437 $\chi^2$/NDF:552.8/5

Left: -8.730+/-0.307 $\chi^2$/NDF: 8424.9/12

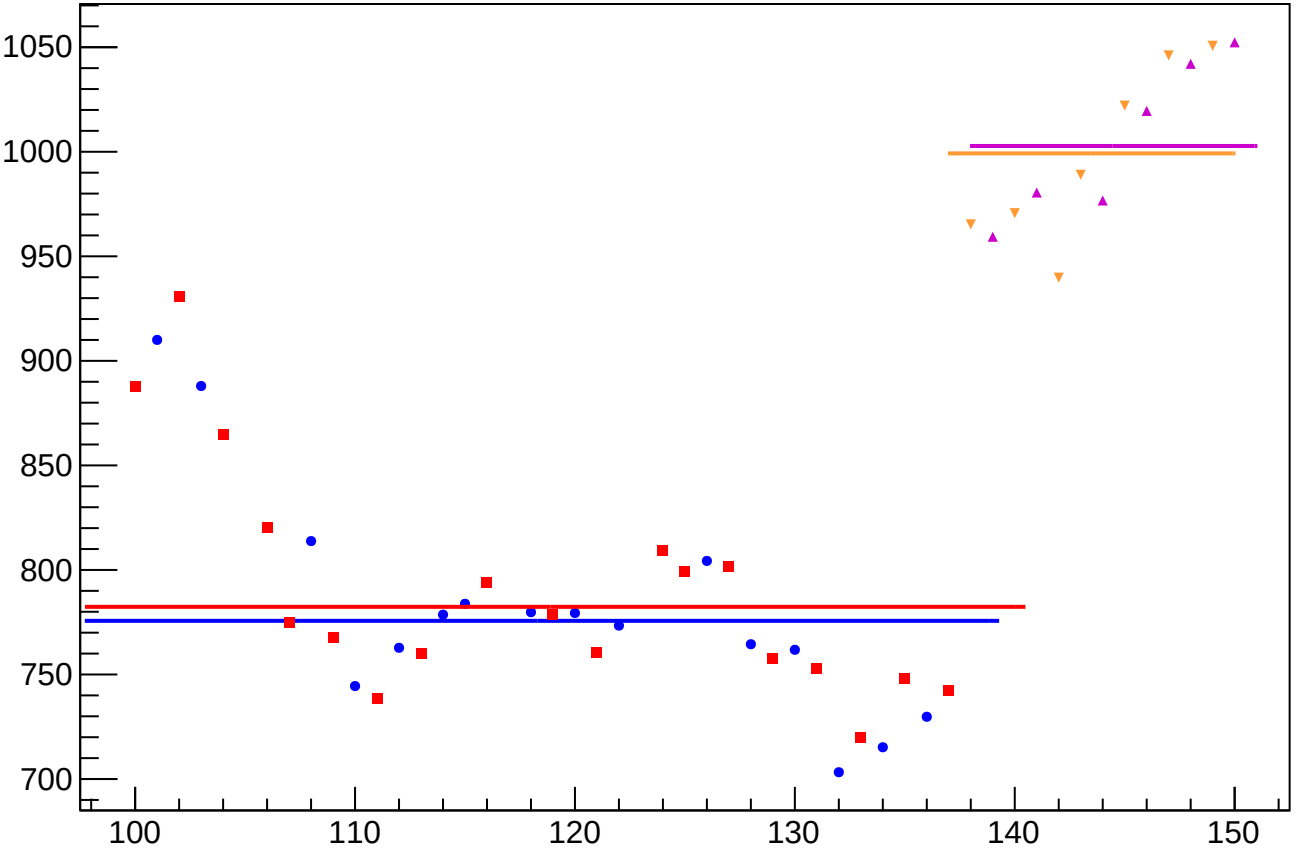
Right: 6.136+/-0.203 $\chi^2$/NDF: 35729.1/34

In: 11.997+/-0.241 $\chi^2$/NDF:24704.3/21

Out: -8.547+/-0.238 $\chi^2$/NDF:17406.1/25

All: 1.615+/-0.170 $\chi^2$/NDF: 45781.0/47

# diff_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 775.664+/-0.204 $\chi^2$/NDF: 74660.0/15

Left Out: 999.224+/-0.306 $\chi^2$/NDF:15231.9/6

Right Out: 782.358+/-0.202 $\chi^2$/NDF: 64566.3/18

Left In: 1002.776+/-0.309 $\chi^2$/NDF:12504.2/5

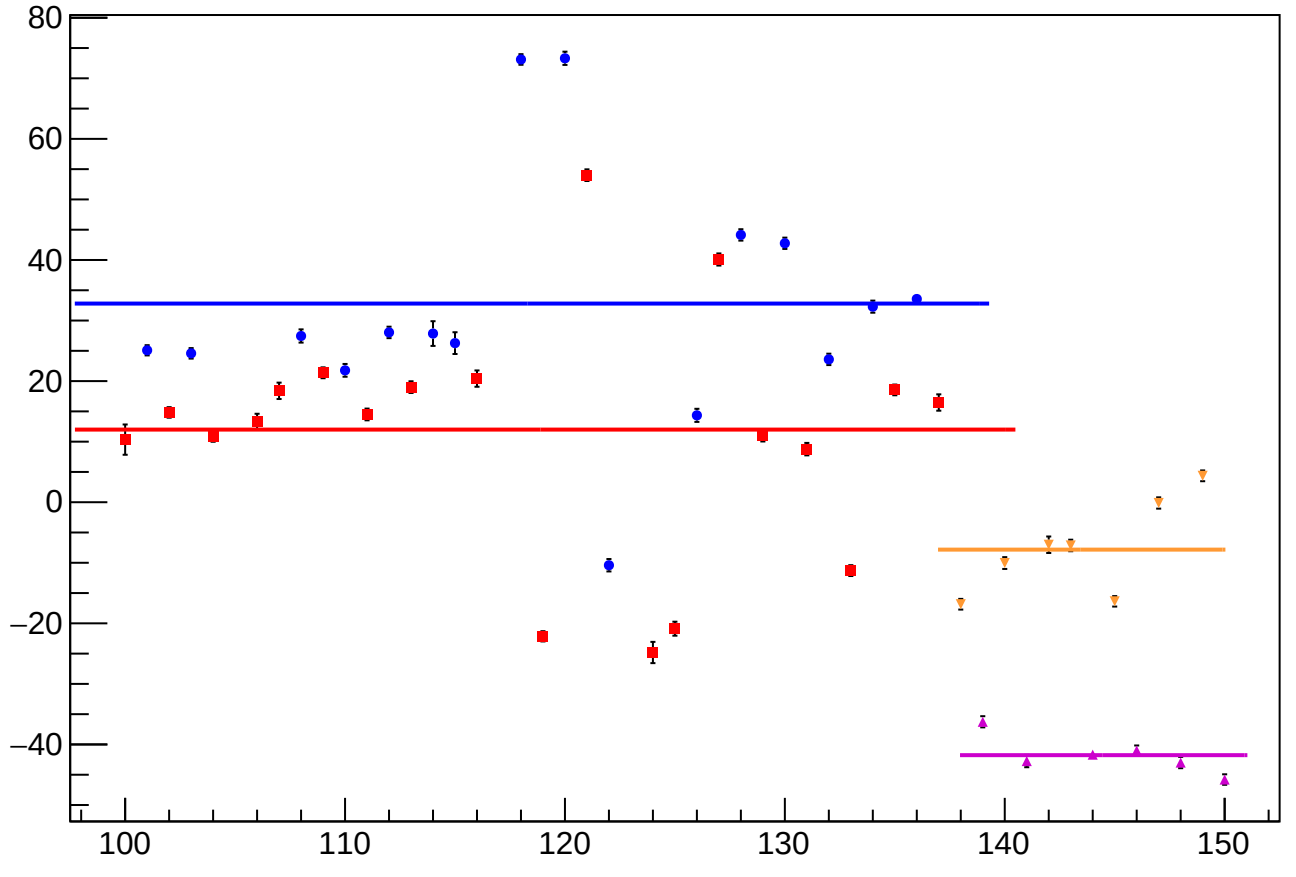
Left: 1000.979+/-0.217 $\chi^2$/NDF: 27802.8/12

Right: 779.045+/-0.144 $\chi^2$/NDF: 139768.7/34

In: 844.658+/-0.170 $\chi^2$/NDF:462622.9/21

Out: 848.388+/-0.169 $\chi^2$/NDF:430032.0/25

All: 846.543+/-0.120 $\chi^2$/NDF: 892896.9/47




Right In: 32.804+/-0.244 $\chi^2$/NDF: 6259.3/15

Left Out: -7.828+/-0.360 $\chi^2$/NDF:462.9/6

Right Out: 11.994+/-0.241 $\chi^2$/NDF: 6559.7/18

Left In: -41.768+/-0.363 $\chi^2$/NDF:60.8/5

Left: -24.643+/-0.256 $\chi^2$/NDF: 4929.4/12

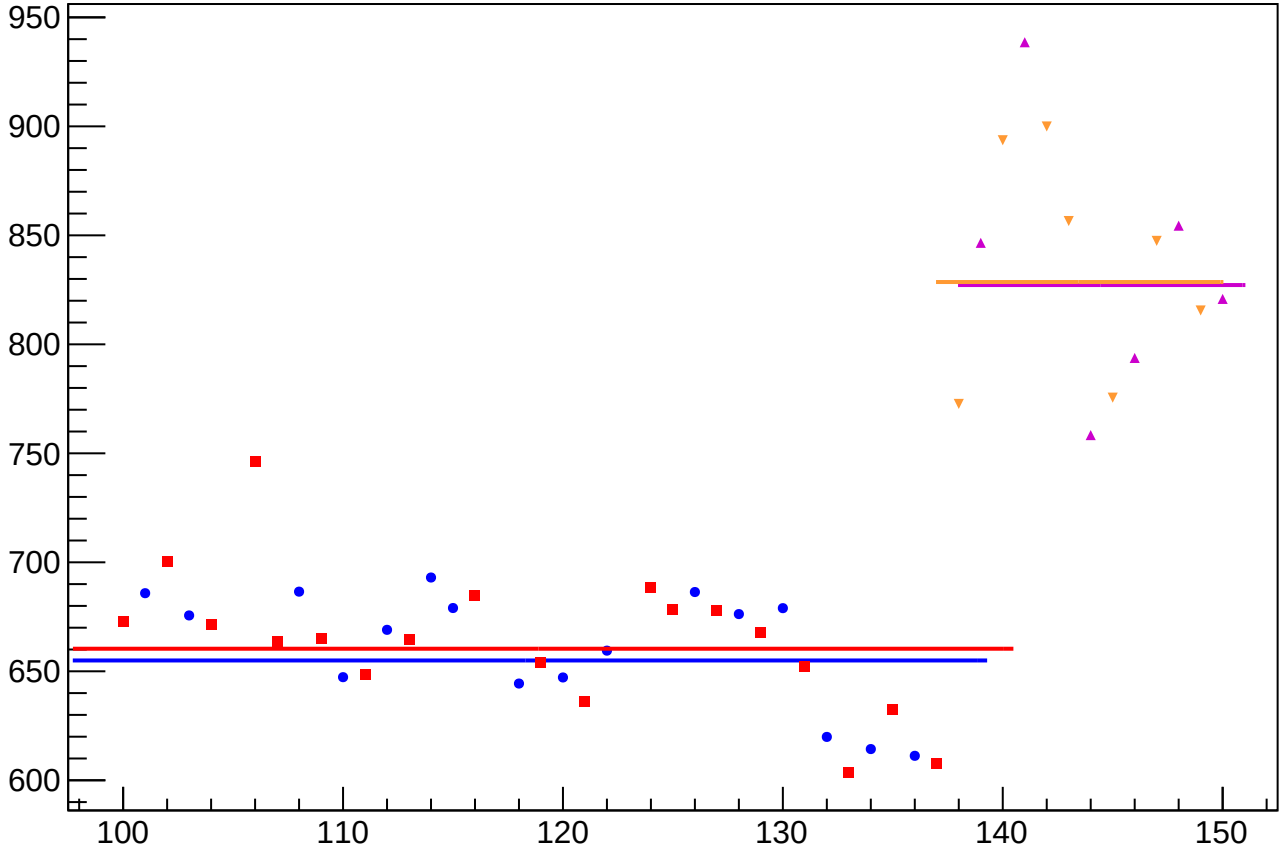
Right: 22.296+/-0.171 $\chi^2$/NDF: 16506.5/34

In: 9.678+/-0.202 $\chi^2$/NDF:35400.8/21

Out: 5.853+/-0.200 $\chi^2$/NDF:9115.9/25

All: 7.747+/-0.142 $\chi^2$/NDF: 44697.1/47

# diff_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 654.970+/-0.172 $\chi^2$/NDF: 26744.4/15

Left Out: 828.586+/-0.255 $\chi^2$/NDF:32927.6/6

Right Out: 660.355+/-0.171 $\chi^2$/NDF: 30417.5/18

Left In: 827.199+/-0.257 $\chi^2$/NDF:44303.7/5

Left: 827.899+/-0.181 $\chi^2$/NDF: 77246.0/12

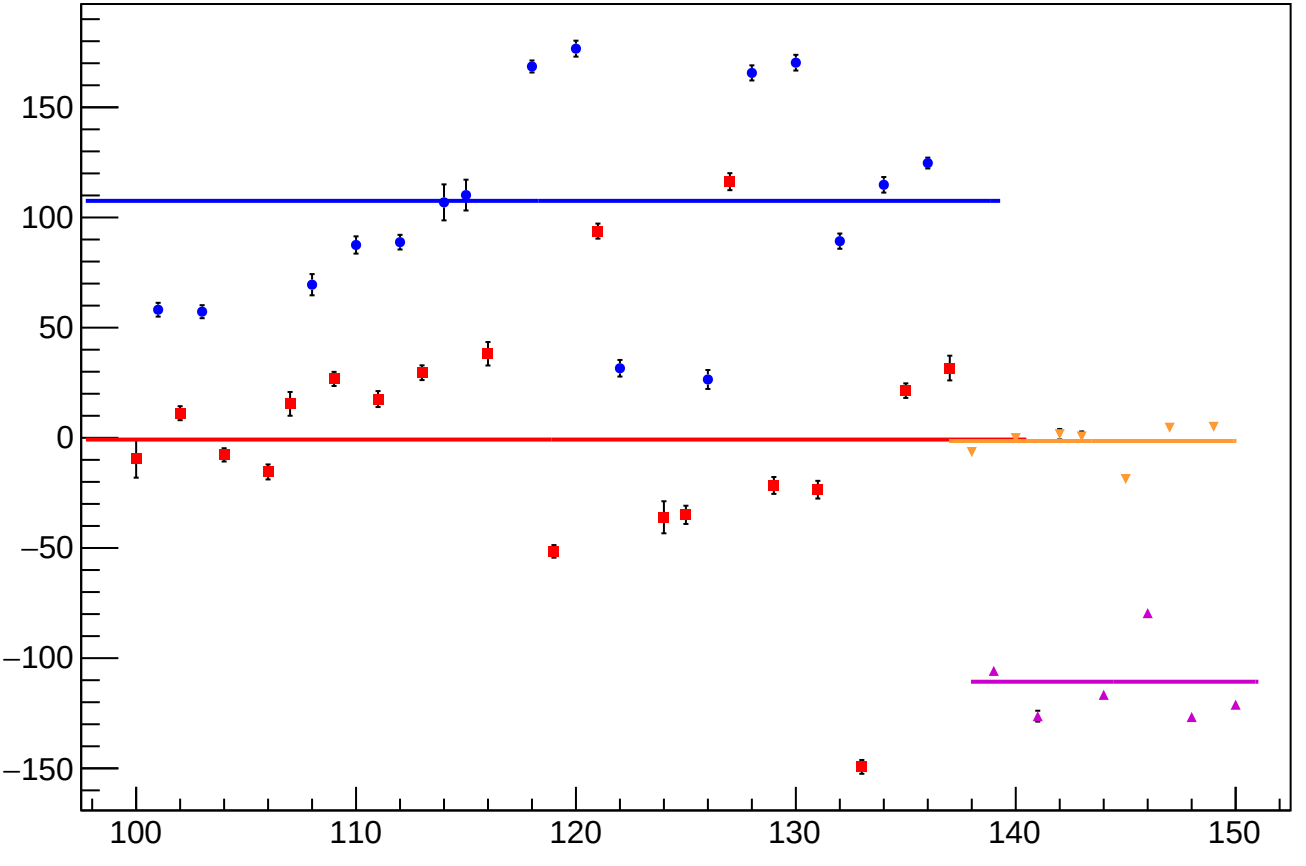
Right: 657.689+/-0.121 $\chi^2$/NDF: 57655.9/34

In: 708.380+/-0.143 $\chi^2$/NDF:381290.4/21

Out: 712.469+/-0.142 $\chi^2$/NDF:364929.6/25

All: 710.445+/-0.101 $\chi^2$/NDF: 746632.7/47

# diff_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 107.548+/-0.885 $\chi^2$/NDF: 2955.8/15

Left Out: -1.444+/-0.763 $\chi^2$/NDF:112.0/6

Right Out: -0.788+/-0.861 $\chi^2$/NDF: 4763.9/18

Left In: -110.693+/-0.755 $\chi^2$/NDF:537.8/5

Left: -56.644+/-0.537 $\chi^2$/NDF: 11014.8/12

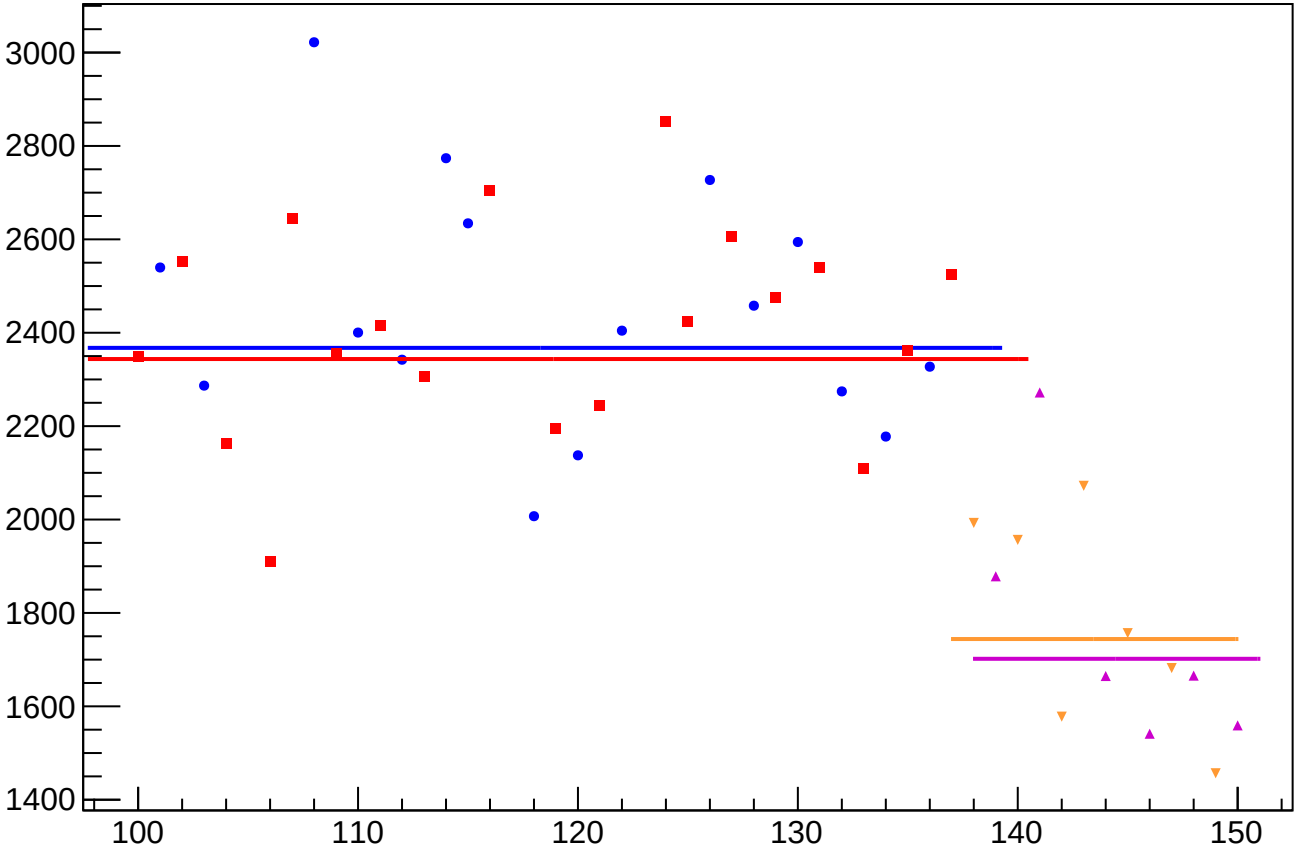
Right: 51.859+/-0.617 $\chi^2$/NDF: 15416.7/34

In: -18.836+/-0.574 $\chi^2$/NDF:38682.8/21

Out: -1.155+/-0.571 $\chi^2$/NDF:4876.2/25

All: -9.942+/-0.405 $\chi^2$/NDF: 44035.7/47

# diff_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 2367.633+/-0.626 $\chi^2$/NDF: 126764.1/15

Left Out: 1744.117+/-0.539 $\chi^2$/NDF:161090.7/6

Right Out: 2343.704+/-0.609 $\chi^2$/NDF: 112274.4/18

Left In: 1701.793+/-0.534 $\chi^2$/NDF:157689.0/5

Left: 1722.732+/-0.379 $\chi^2$/NDF: 321891.0/12

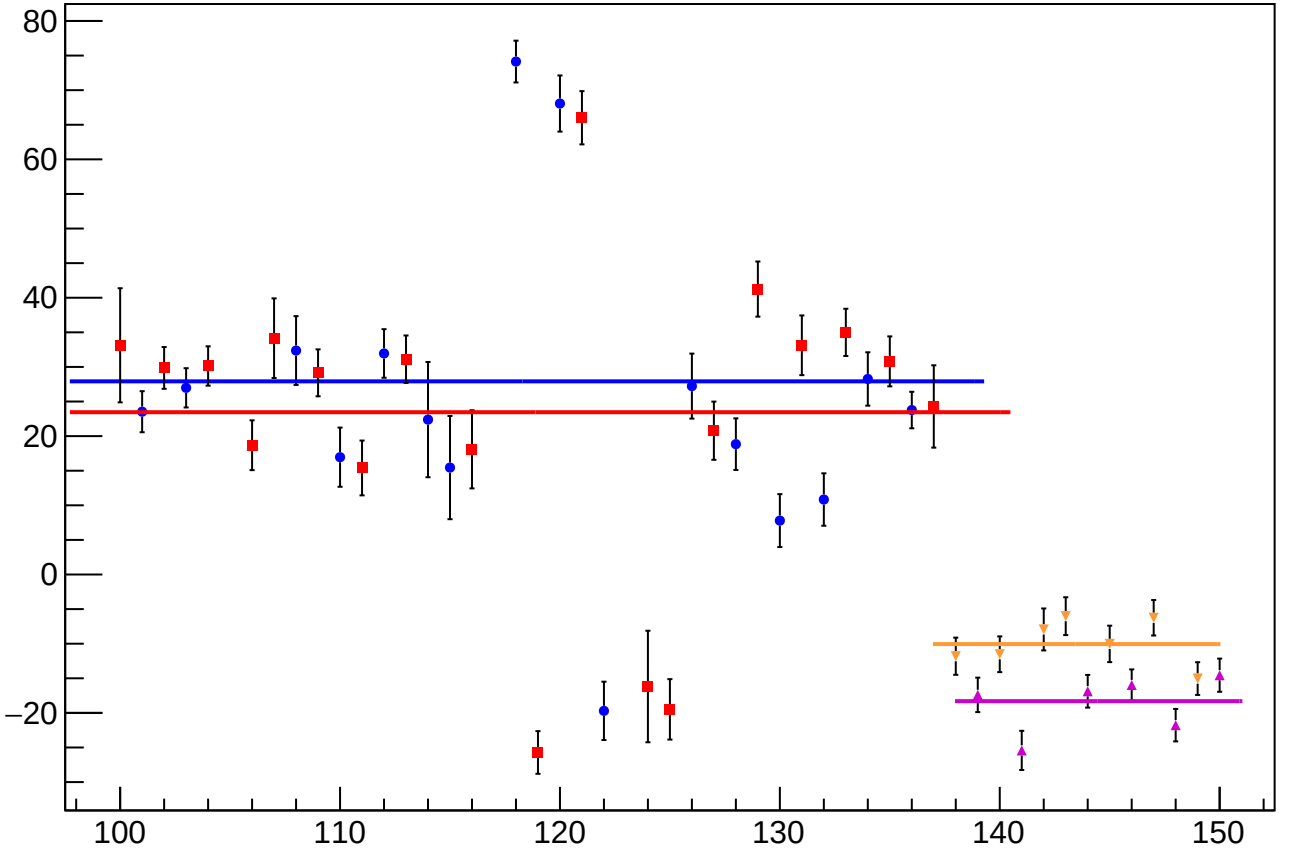
Right: 2355.333+/-0.436 $\chi^2$/NDF: 239789.5/34

In: 1982.044+/-0.406 $\chi^2$/NDF:939552.4/21

Out: 2007.834+/-0.404 $\chi^2$/NDF:816901.0/25

All: 1995.017+/-0.286 $\chi^2$/NDF: 1758481.8/47

# diff_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: 27.916+/-0.937 $\chi^2$/NDF: 530.7/15

Left Out: -10.057+/-0.997 $\chi^2$/NDF:10.1/6

Right Out: 23.457+/-0.903 $\chi^2$/NDF: 567.9/18

Left In: -18.304+/-0.991 $\chi^2$/NDF:12.6/5

Left: -14.205+/-0.703 $\chi^2$/NDF: 57.1/12

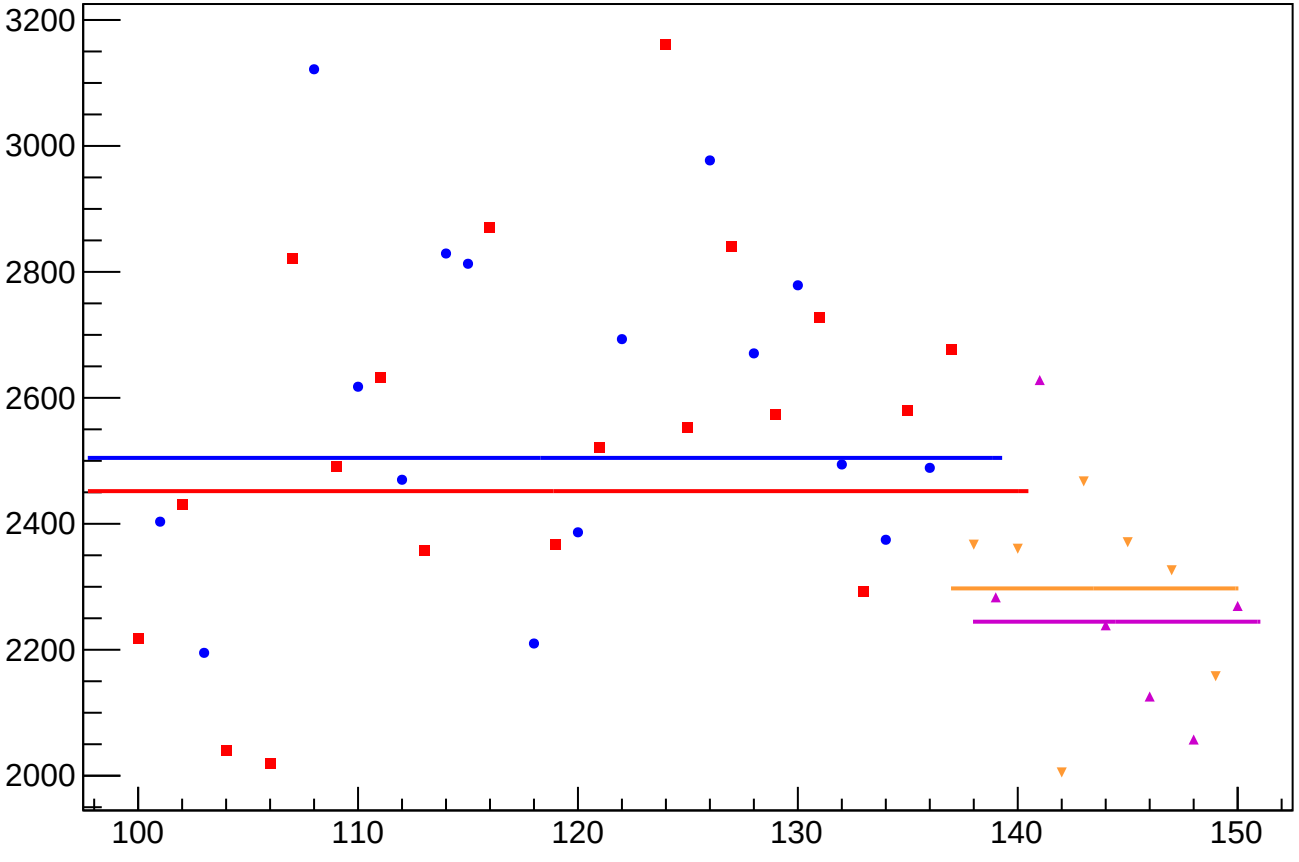
Right: 25.604+/-0.650 $\chi^2$/NDF: 1110.3/34

In: 6.098+/-0.681 $\chi^2$/NDF:1692.4/21

Out: 8.355+/-0.669 $\chi^2$/NDF:1199.2/25

All: 7.246+/-0.477 $\chi^2$/NDF: 2897.2/47

# diff_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 2504.654+/-0.662 $\chi^2$/NDF: 126599.1/15

Left Out: 2297.417+/-0.705 $\chi^2$/NDF:37605.3/6

Right Out: 2451.880+/-0.638 $\chi^2$/NDF: 153237.1/18

Left In: 2244.568+/-0.701 $\chi^2$/NDF:55812.7/5

Left: 2270.833+/-0.497 $\chi^2$/NDF: 96246.7/12

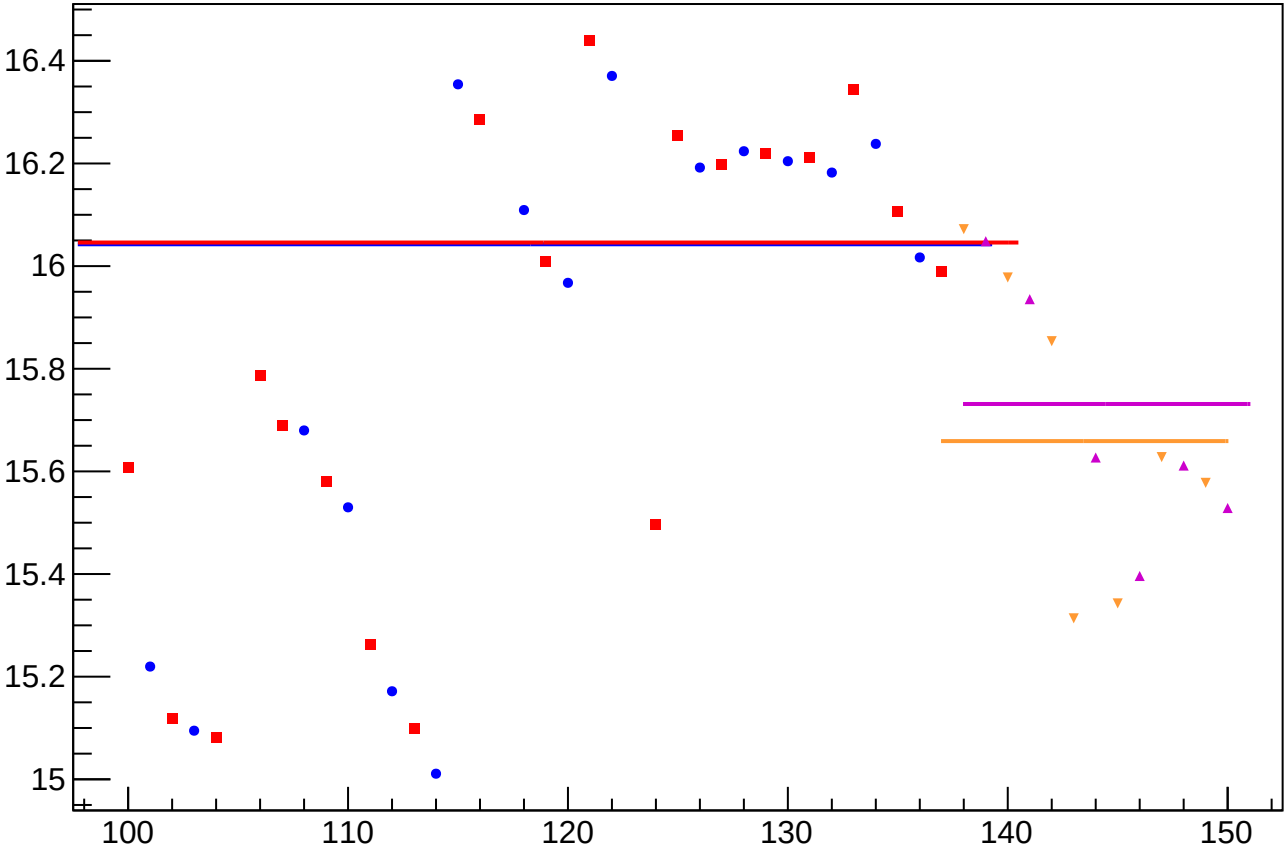
Right: 2477.287+/-0.460 $\chi^2$/NDF: 283127.8/34

In: 2381.881+/-0.481 $\chi^2$/NDF:255188.6/21

Out: 2382.278+/-0.473 $\chi^2$/NDF:217234.0/25

All: 2382.082+/-0.337 $\chi^2$/NDF: 472422.9/47

# yield_sam1_mean vs Slug, Sign Corrected




Right In: 16.043+/-0.000 $\chi^2$/NDF: 2840540588.4/15

Left Out: 15.659+/-0.000 $\chi^2$/NDF:4293052911.3/6

Right Out: 16.046+/-0.000 $\chi^2$/NDF: 3552158387.5/18

Left In: 15.731+/-0.000 $\chi^2$/NDF:1910424604.3/5

Left: 15.691+/-0.000 $\chi^2$/NDF: 6312760376.9/12

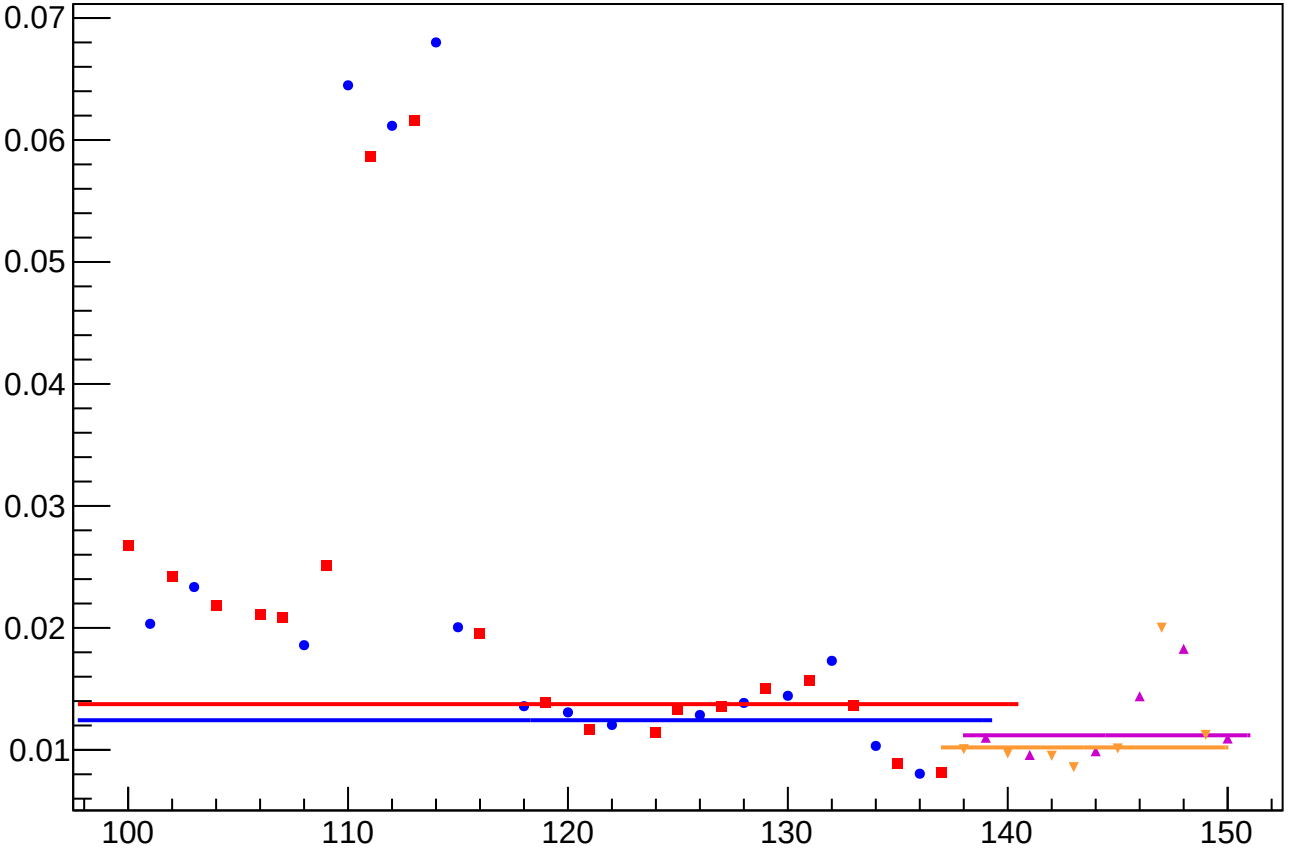
Right: 16.044+/-0.000 $\chi^2$/NDF: 6392885915.7/34

In: 15.882+/-0.000 $\chi^2$/NDF:6530214517.9/21

Out: 15.811+/-0.000 $\chi^2$/NDF:10582181586.2/25

All: 15.846+/-0.000 $\chi^2$/NDF: 17302791231.8

# yield_sam1_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2316842.7/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:461351.7/6

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2230614.9/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:395274.1/5

Left: 0.011+/-0.000 $\chi^2$/NDF: 897917.6/12

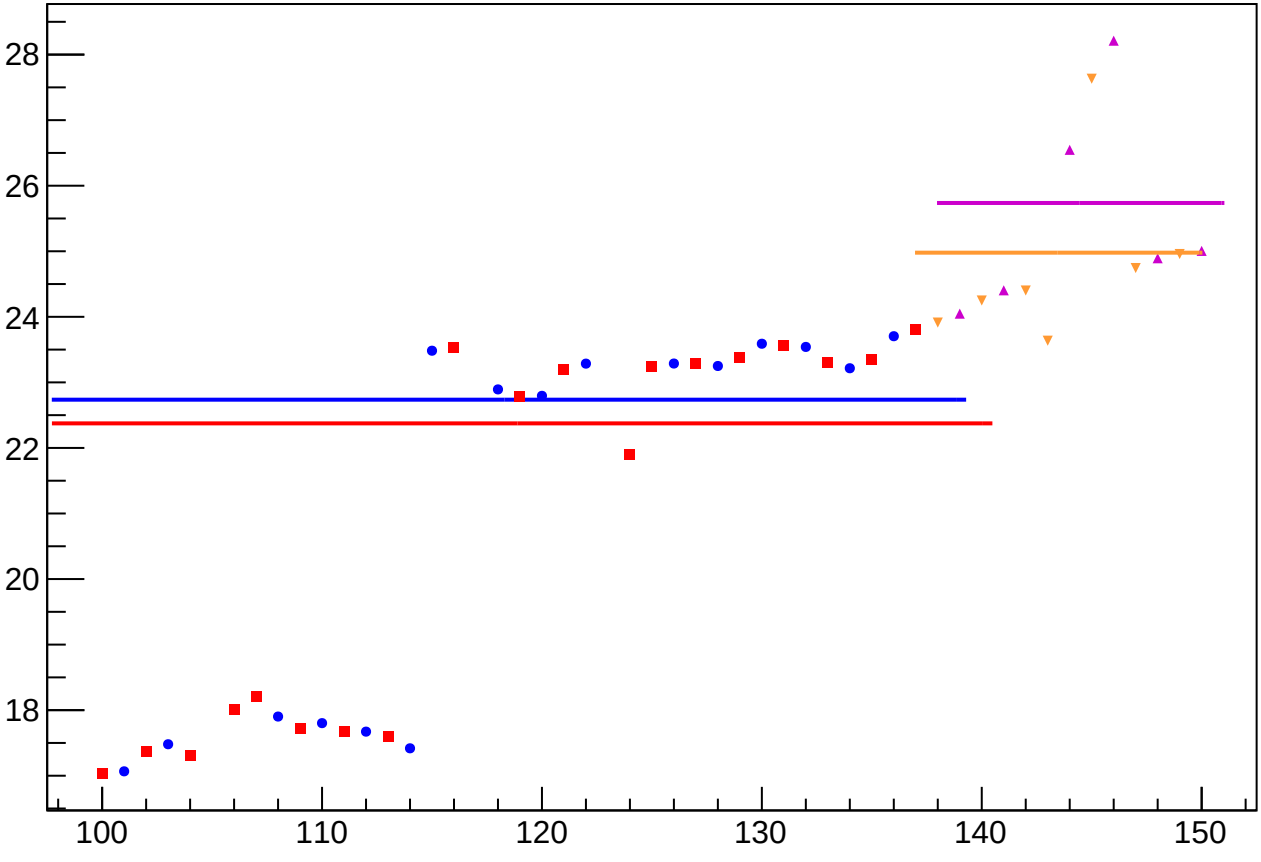
Right: 0.013+/-0.000 $\chi^2$/NDF: 4604105.9/34

In: 0.012+/-0.000 $\chi^2$/NDF:2768246.5/21

Out: 0.012+/-0.000 $\chi^2$/NDF:3152157.3/25

All: 0.012+/-0.000 $\chi^2$/NDF: 5923419.6/47

# yield_sam2_mean vs Slug, Sign Corrected




Right In: 22.736+/-0.000 $\chi^2$/NDF: 1220713728.0/15

Left Out: 24.979+/-0.000 $\chi^2$/NDF:760085102.9/6

Right Out: 22.375+/-0.000 $\chi^2$/NDF: 1215661430.7/18

Left In: 25.737+/-0.000 $\chi^2$/NDF:600506978.0/5

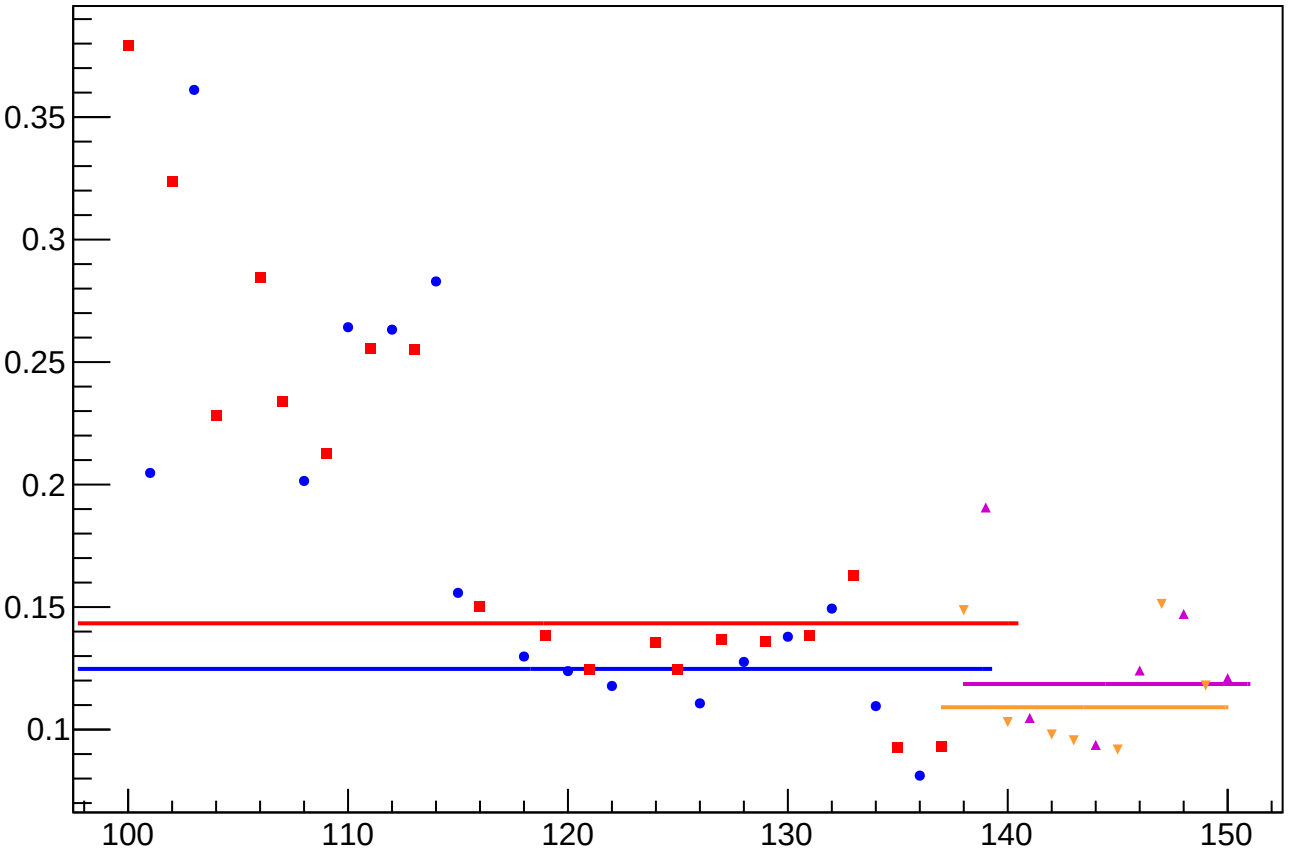
Left: 25.328+/-0.000 $\chi^2$/NDF: 1457555248.2/12

Right: 22.574+/-0.000 $\chi^2$/NDF: 2456494994.8/34

In: 24.167+/-0.000 $\chi^2$/NDF:3296260985.3/21

Out: 23.851+/-0.000 $\chi^2$/NDF:3050369063.1/25

All: 24.010+/-0.000 $\chi^2$/NDF: 6379096185.9/4




Right In: 0.125+/-0.000 $\chi^2$/NDF: 1749818.7/15

Left Out: 0.109+/-0.000 $\chi^2$/NDF:310407.6/6

Right Out: 0.143+/-0.000 $\chi^2$/NDF: 1570103.9/18

Left In: 0.119+/-0.000 $\chi^2$/NDF:430712.6/5

Left: 0.113+/-0.000 $\chi^2$/NDF: 771652.9/12

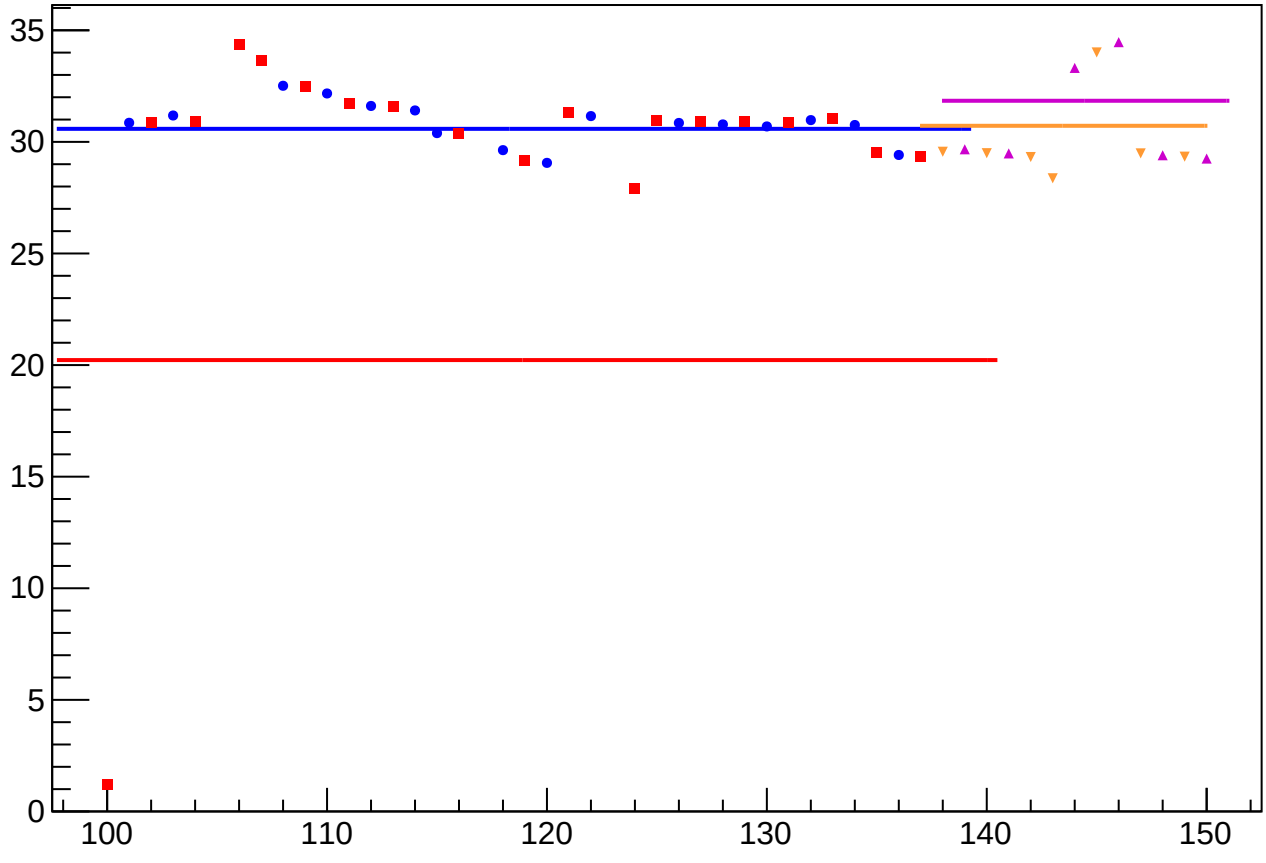
Right: 0.133+/-0.000 $\chi^2$/NDF: 3426627.7/34

In: 0.122+/-0.000 $\chi^2$/NDF:2192947.5/21

Out: 0.124+/-0.000 $\chi^2$/NDF:2252830.0/25

All: 0.123+/-0.000 $\chi^2$/NDF: 4448673.2/47

# yield_sam3_mean vs Slug, Sign Corrected




Right In: 30.585+/-0.000 $\chi^2$/NDF: 652266844.4/15

Left Out: 30.721+/-0.000 $\chi^2$/NDF:4537566439.7/6

Right Out: 20.224+/-0.000 $\chi^2$/NDF: 221262816636.2/18

Left In: 31.842+/-0.000 $\chi^2$/NDF:4834593178.8/5

Left: 31.300+/-0.000 $\chi^2$/NDF: 9949201816.9/12

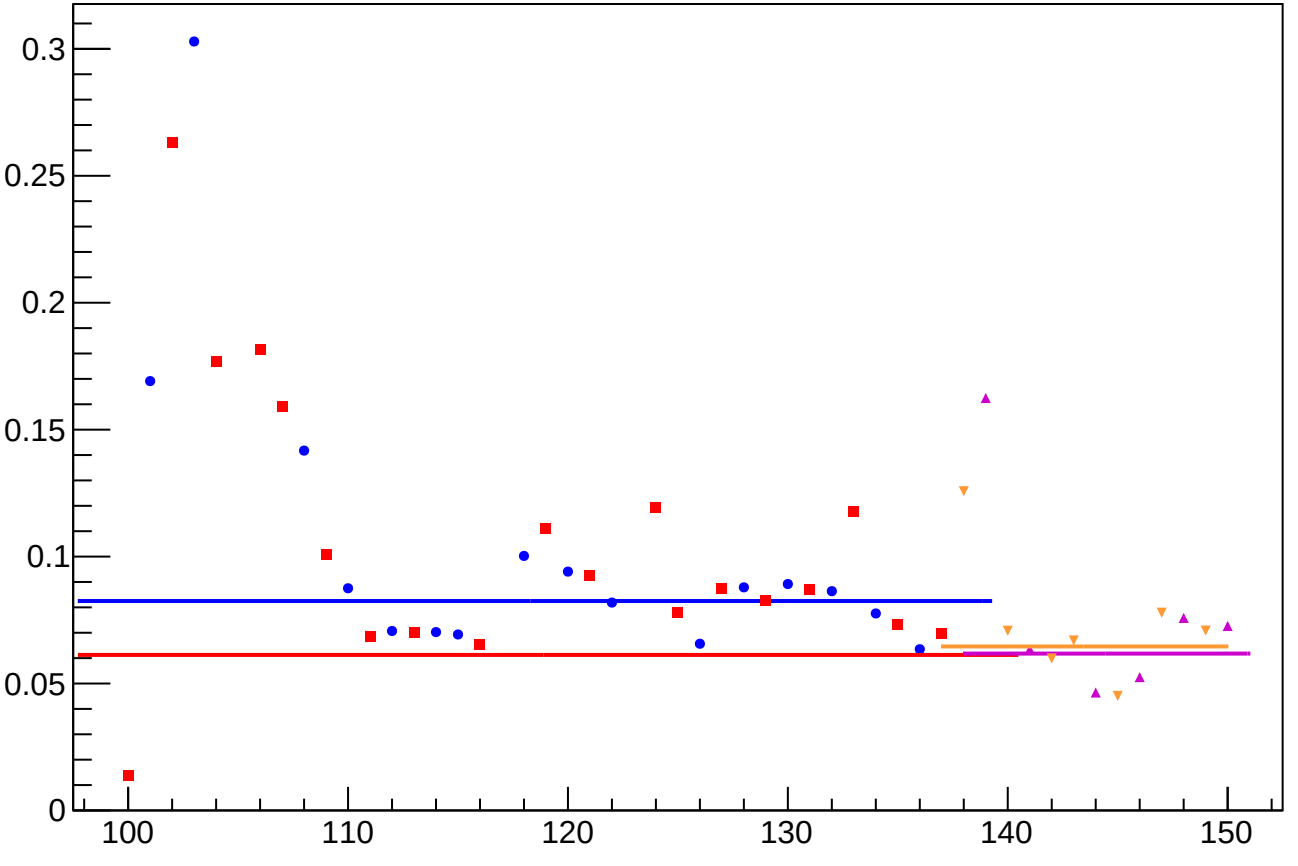
Right: 24.530+/-0.000 $\chi^2$/NDF: 270460315915.7/34

In: 31.278+/-0.000 $\chi^2$/NDF:6161381114.4/21

Out: 24.942+/-0.000 $\chi^2$/NDF:279691528299.2/25

All: 27.893+/-0.000 $\chi^2$/NDF: 322810622809.

# yield_sam3_rms vs Slug, Sign Corrected




Right In: 0.082+/-0.000 $\chi^2$/NDF: 1261492.7/15

Left Out: 0.065+/-0.000 $\chi^2$/NDF:584366.8/6

Right Out: 0.061+/-0.000 $\chi^2$/NDF: 4014305.3/18

Left In: 0.062+/-0.000 $\chi^2$/NDF:889589.8/5

Left: 0.063+/-0.000 $\chi^2$/NDF: 1481169.5/12

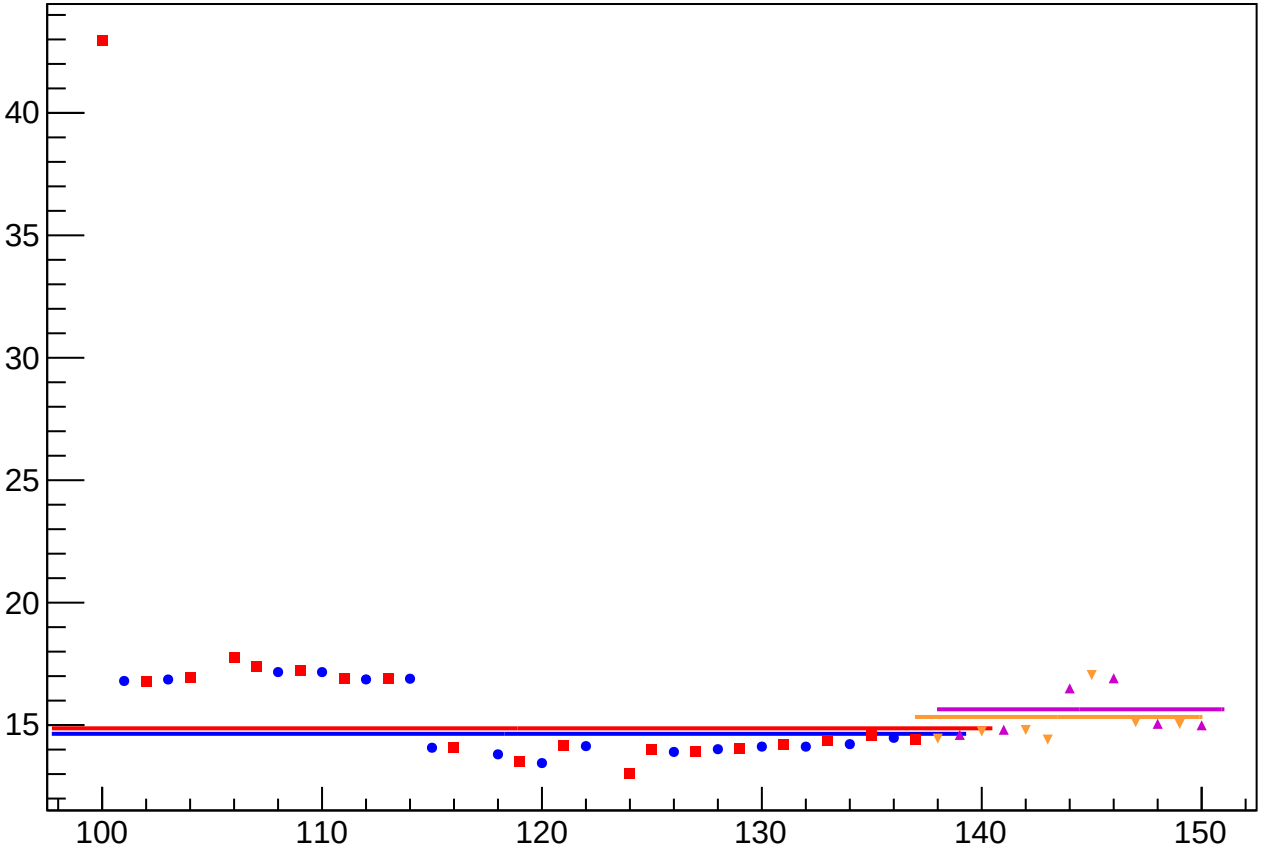
Right: 0.070+/-0.000 $\chi^2$/NDF: 5683622.8/34

In: 0.071+/-0.000 $\chi^2$/NDF:2516697.3/21

Out: 0.063+/-0.000 $\chi^2$/NDF:4609536.9/25

All: 0.067+/-0.000 $\chi^2$/NDF: 7253923.6/47

# yield_sam4_mean vs Slug, Sign Corrected




Right In: 14.644+/-0.000 $\chi^2$/NDF: 1193913109.5/15

Left Out: 15.332+/-0.000 $\chi^2$/NDF:917158739.6/6

Right Out: 14.868+/-0.000 $\chi^2$/NDF: 1730040006.8/18

Left In: 15.645+/-0.000 $\chi^2$/NDF:663724810.8/5

Left: 15.481+/-0.000 $\chi^2$/NDF: 1623948755.3/12

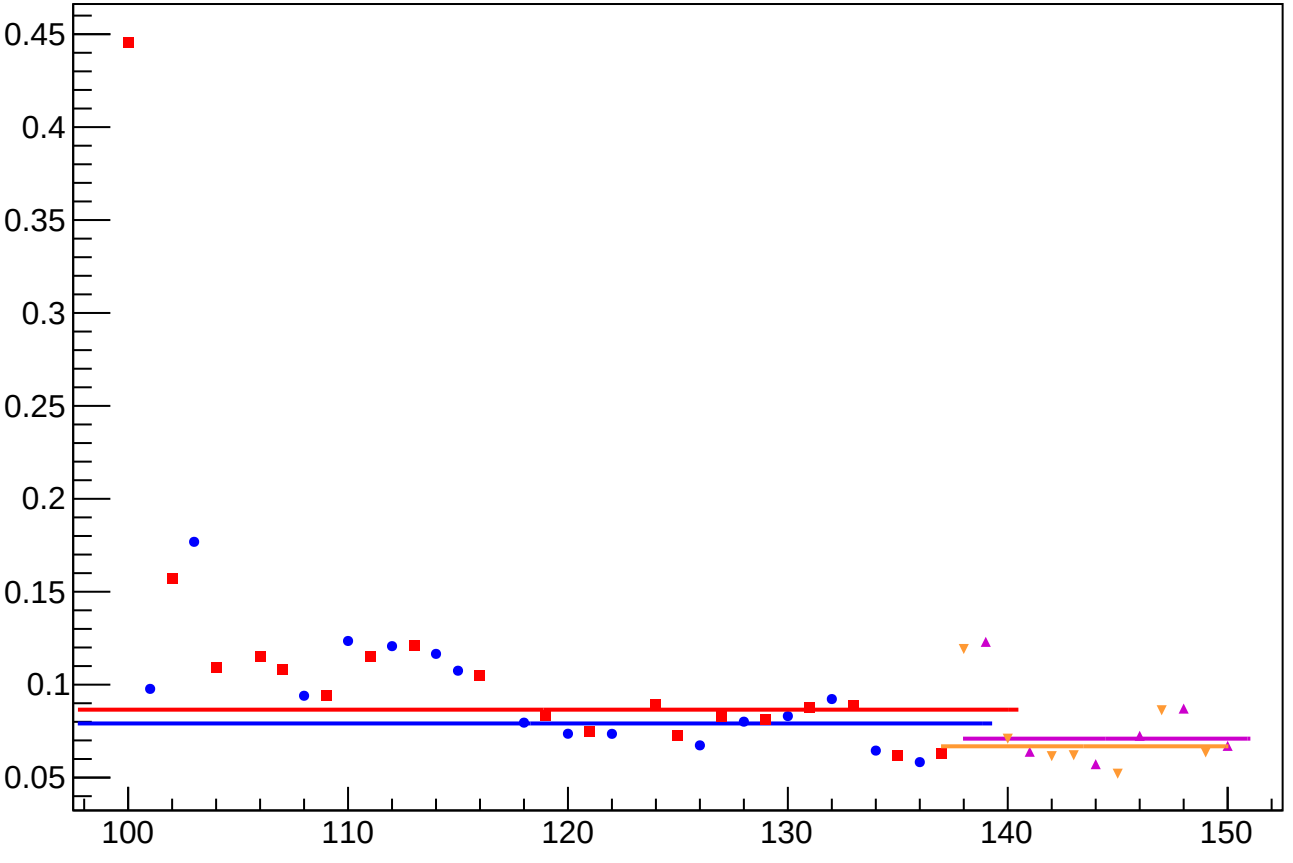
Right: 14.749+/-0.000 $\chi^2$/NDF: 2945878863.1/34

In: 15.117+/-0.000 $\chi^2$/NDF:2301734052.8/21

Out: 15.114+/-0.000 $\chi^2$/NDF:2740737504.0/25

All: 15.116+/-0.000 $\chi^2$/NDF: 5042482098.4/4

# yield_sam4_rms vs Slug, Sign Corrected




Right In: 0.079+/-0.000 $\chi^2$/NDF: 918198.7/15

Left Out: 0.067+/-0.000 $\chi^2$/NDF:470491.9/6

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 793345.8/18

Left In: 0.071+/-0.000 $\chi^2$/NDF:446474.3/5

Left: 0.069+/-0.000 $\chi^2$/NDF: 931885.6/12

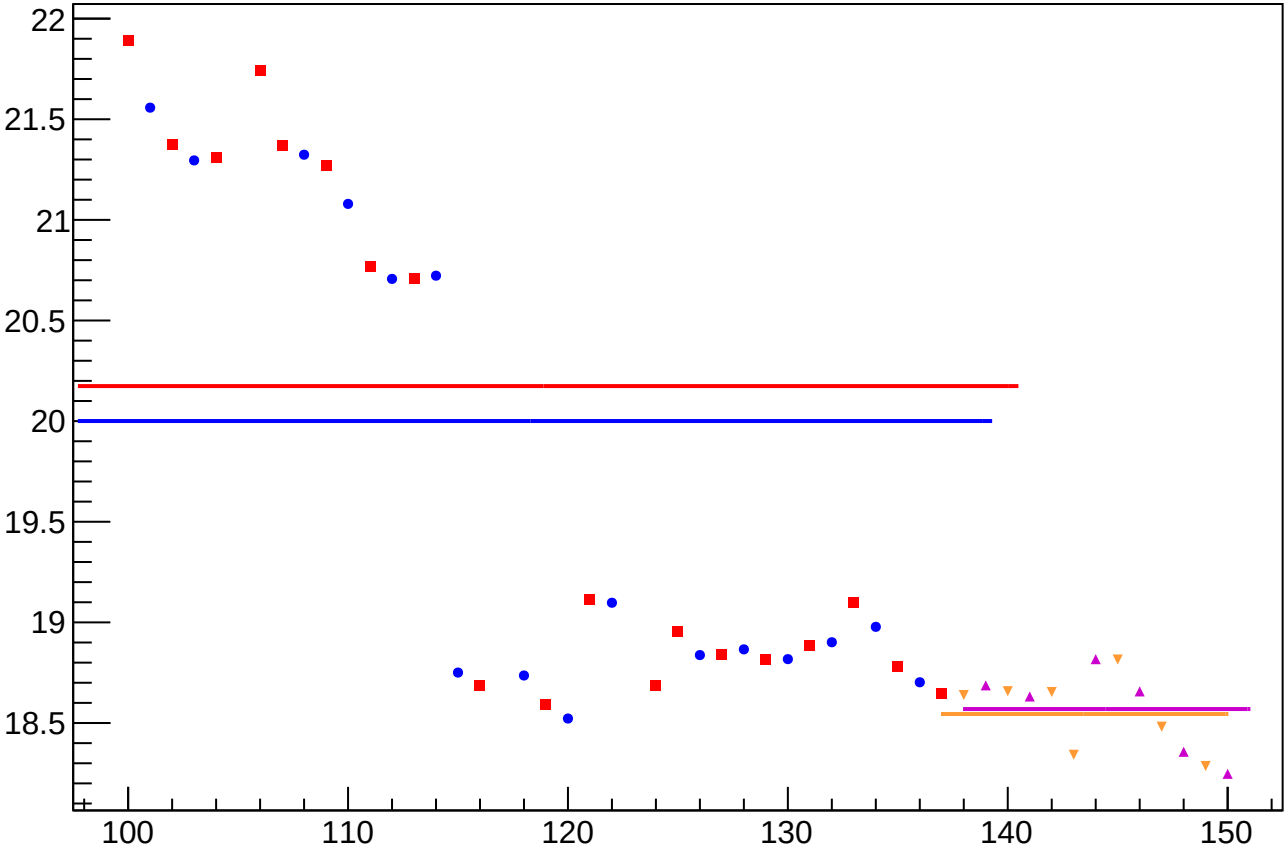
Right: 0.083+/-0.000 $\chi^2$/NDF: 1759748.9/34

In: 0.075+/-0.000 $\chi^2$/NDF:1424020.4/21

Out: 0.076+/-0.000 $\chi^2$/NDF:1601604.0/25

All: 0.076+/-0.000 $\chi^2$/NDF: 3026882.8/47

# yield_sam5_mean vs Slug, Sign Corrected




Right In: 20.001+/-0.000 $\chi^2$/NDF: 10878846617.7/15

Left Out: 18.545+/-0.000 $\chi^2$/NDF:187615328.0/6

Right Out: 20.174+/-0.000 $\chi^2$/NDF: 10426322430.8/18

Left In: 18.569+/-0.000 $\chi^2$/NDF:191956946.1/5

Left: 18.556+/-0.000 $\chi^2$/NDF: 380927428.5/12

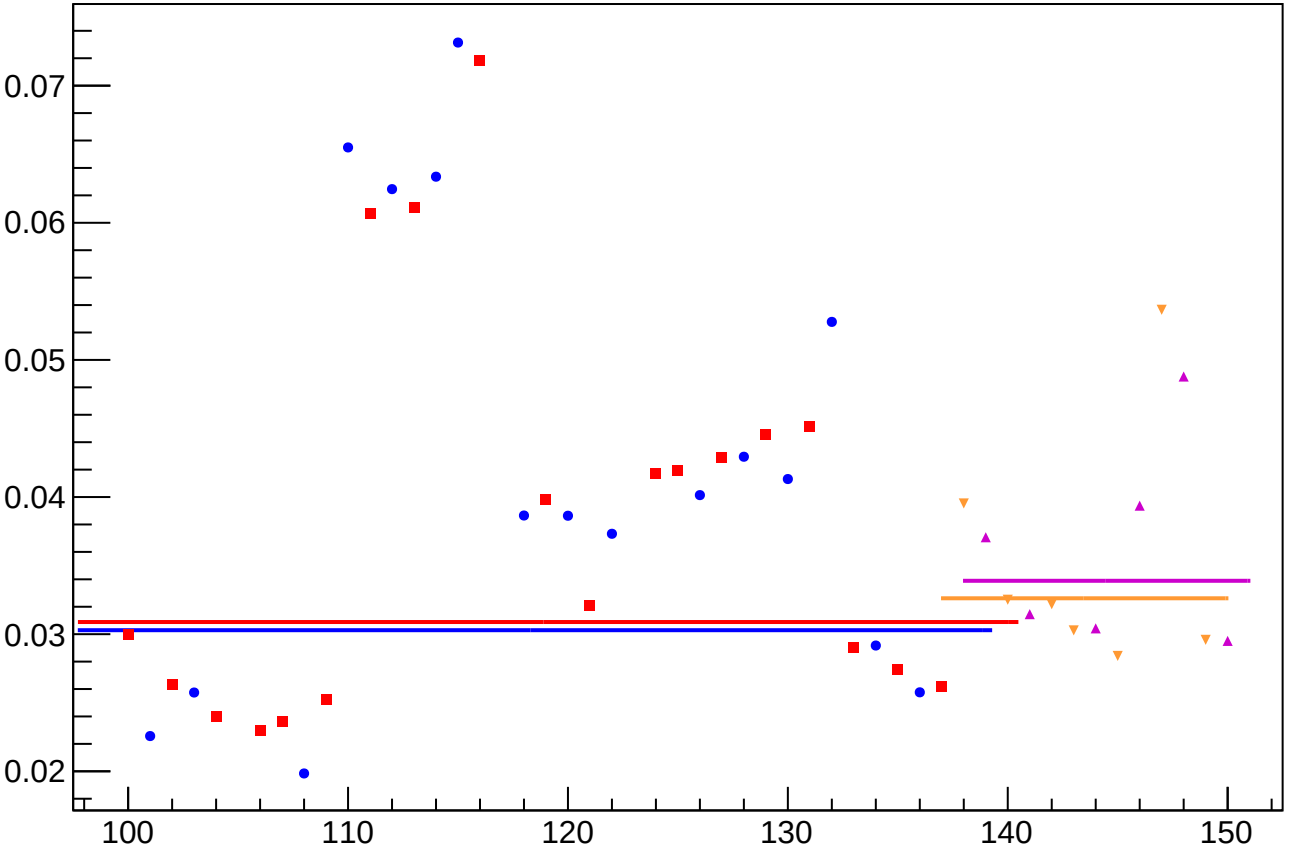
Right: 20.087+/-0.000 $\chi^2$/NDF: 21403297693.7/34

In: 19.436+/-0.000 $\chi^2$/NDF:16317516812.8/21

Out: 19.496+/-0.000 $\chi^2$/NDF:17819438162.3/25

All: 19.467+/-0.000 $\chi^2$/NDF: 34156305965.8

# yield_sam5_rms vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 1447374.9/15

Left Out: 0.033+/-0.000 $\chi^2$/NDF:352623.9/6

Right Out: 0.031+/-0.000 $\chi^2$/NDF: 1204729.6/18

Left In: 0.034+/-0.000 $\chi^2$/NDF:261581.4/5

Left: 0.033+/-0.000 $\chi^2$/NDF: 621413.4/12

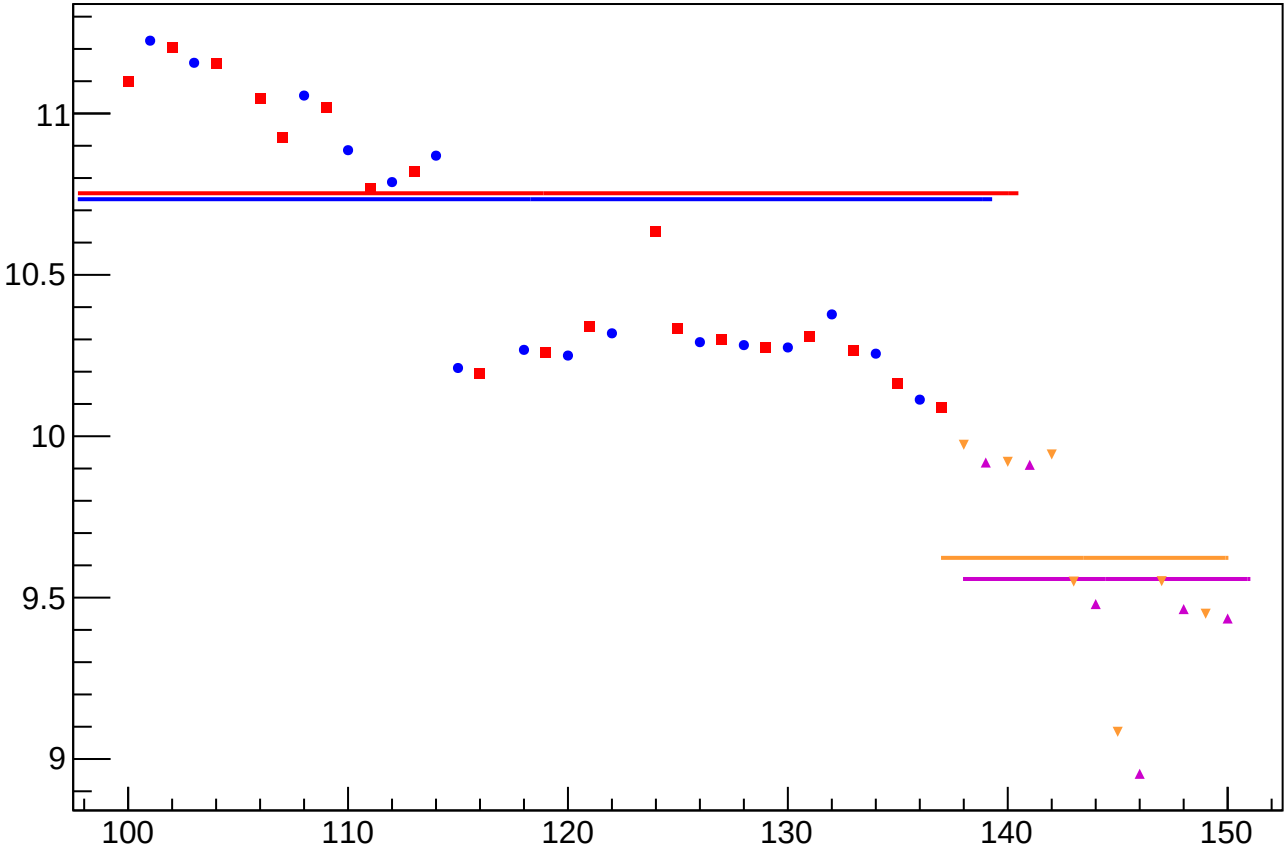
Right: 0.031+/-0.000 $\chi^2$/NDF: 2654419.8/34

In: 0.032+/-0.000 $\chi^2$/NDF:1775461.1/21

Out: 0.032+/-0.000 $\chi^2$/NDF:1573609.1/25

All: 0.032+/-0.000 $\chi^2$/NDF: 3349187.1/47

# yield_sam6_mean vs Slug, Sign Corrected




Right In: 10.734+/-0.000 $\chi^2$/NDF: 5879444478.4/15

Left Out: 9.623+/-0.000 $\chi^2$/NDF:1136690741.5/6

Right Out: 10.753+/-0.000 $\chi^2$/NDF: 4344265704.2/18

Left In: 9.558+/-0.000 $\chi^2$/NDF:948531738.4/5

Left: 9.594+/-0.000 $\chi^2$/NDF: 2109790056.0/12

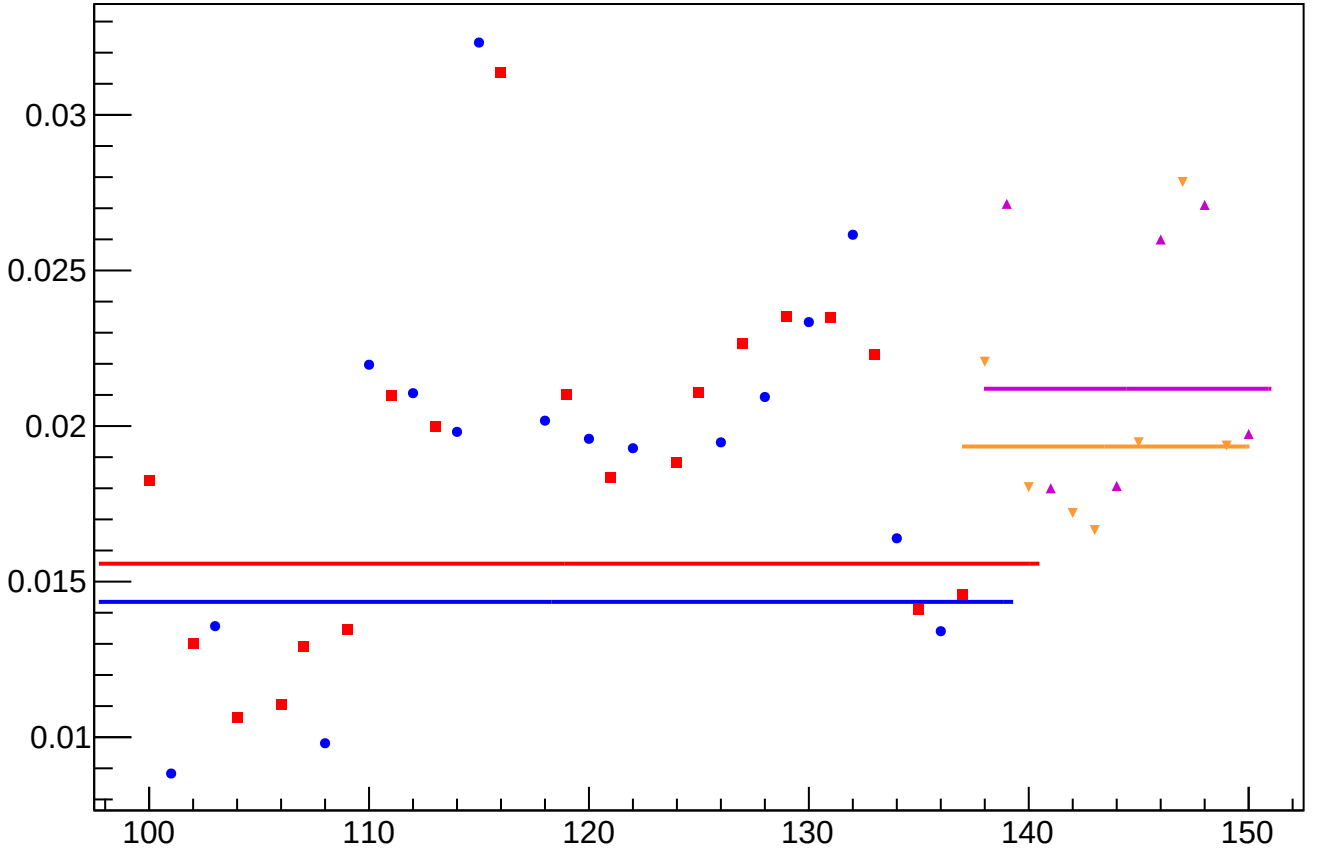
Right: 10.743+/-0.000 $\chi^2$/NDF: 10228218714.9/34

In: 10.411+/-0.000 $\chi^2$/NDF:17340286333.1/21

Out: 10.378+/-0.000 $\chi^2$/NDF:16267432431.7/25

All: 10.395+/-0.000 $\chi^2$/NDF: 33627693723.3

# yield_sam6_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1481790.8/15

Left Out: 0.019+/-0.000 $\chi^2$/NDF:227323.4/6

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 1071979.1/18

Left In: 0.021+/-0.000 $\chi^2$/NDF:317283.8/5

Left: 0.020+/-0.000 $\chi^2$/NDF: 584051.2/12

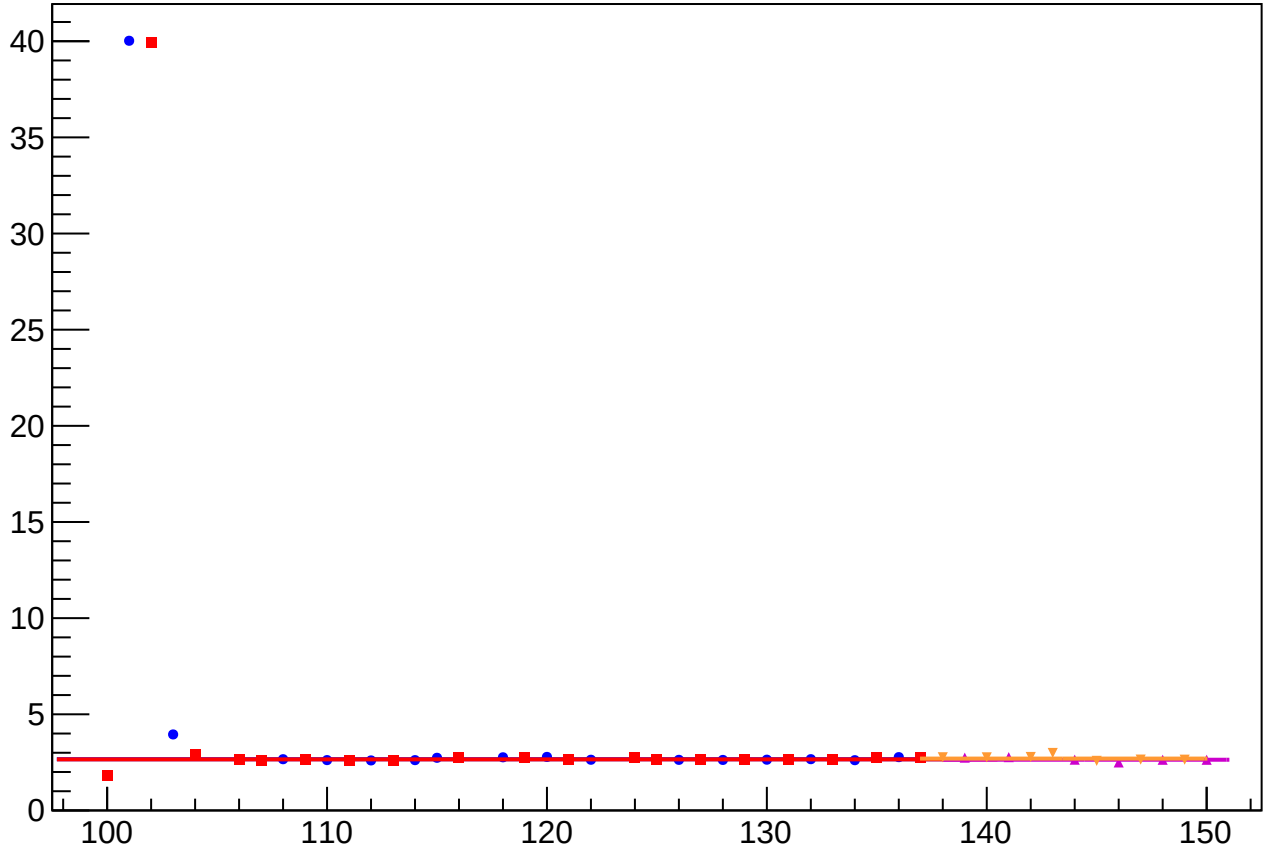
Right: 0.015+/-0.000 $\chi^2$/NDF: 2593711.2/34

In: 0.016+/-0.000 $\chi^2$/NDF:2511456.0/21

Out: 0.017+/-0.000 $\chi^2$/NDF:1539139.3/25

All: 0.017+/-0.000 $\chi^2$/NDF: 4063962.0/47

# yield_sam7_mean vs Slug, Sign Corrected




Right In: 2.664+/-0.000 $\chi^2$/NDF: 67839888284.3/15

Left Out: 2.697+/-0.000 $\chi^2$/NDF:14649497926.5/6

Right Out: 2.656+/-0.000 $\chi^2$/NDF: 65056887880.1/18

Left In: 2.637+/-0.000 $\chi^2$/NDF:7319081884.5/5

Left: 2.666+/-0.000 $\chi^2$/NDF: 23545596873.9/12

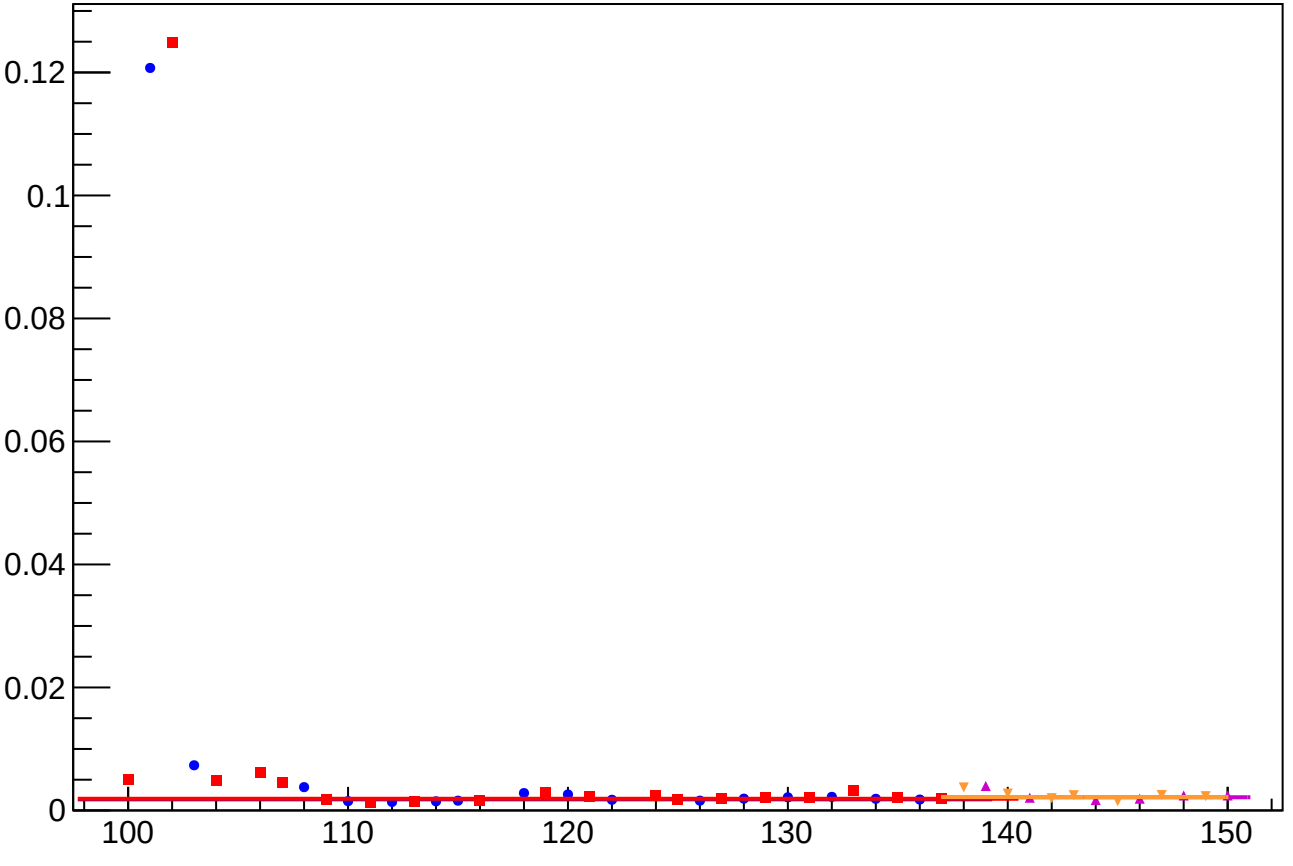
Right: 2.660+/-0.000 $\chi^2$/NDF: 132934575870.3/34

In: 2.654+/-0.000 $\chi^2$/NDF:75551106163.4/21

Out: 2.672+/-0.000 $\chi^2$/NDF:80589429175.4/25

All: 2.663+/-0.000 $\chi^2$/NDF: 156523283414.2

# yield_sam7_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1822680.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:618315.2/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2525514.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:498232.5/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 1117839.4/12

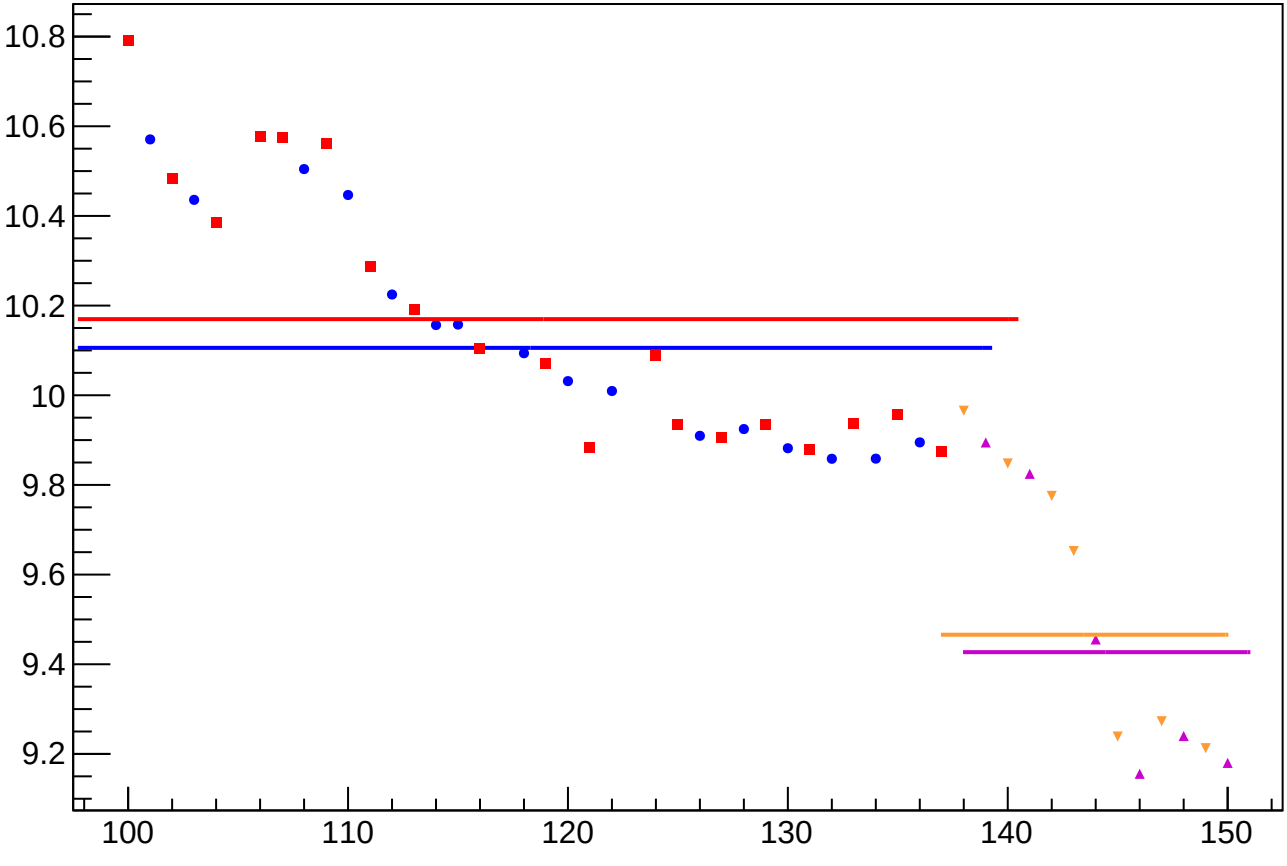
Right: 0.002+/-0.000 $\chi^2$/NDF: 4358433.6/34

In: 0.002+/-0.000 $\chi^2$/NDF:2442484.2/21

Out: 0.002+/-0.000 $\chi^2$/NDF:3230377.1/25

All: 0.002+/-0.000 $\chi^2$/NDF: 5682810.9/47

# yield_sam8_mean vs Slug, Sign Corrected




Right In: 10.106+/-0.000 $\chi^2$/NDF: 9126550621.3/15

Left Out: 9.466+/-0.000 $\chi^2$/NDF:7391626597.6/6

Right Out: 10.170+/-0.000 $\chi^2$/NDF: 9135610954.1/18

Left In: 9.427+/-0.000 $\chi^2$/NDF:6987237089.7/5

Left: 9.448+/-0.000 $\chi^2$/NDF: 14455261492.2/12

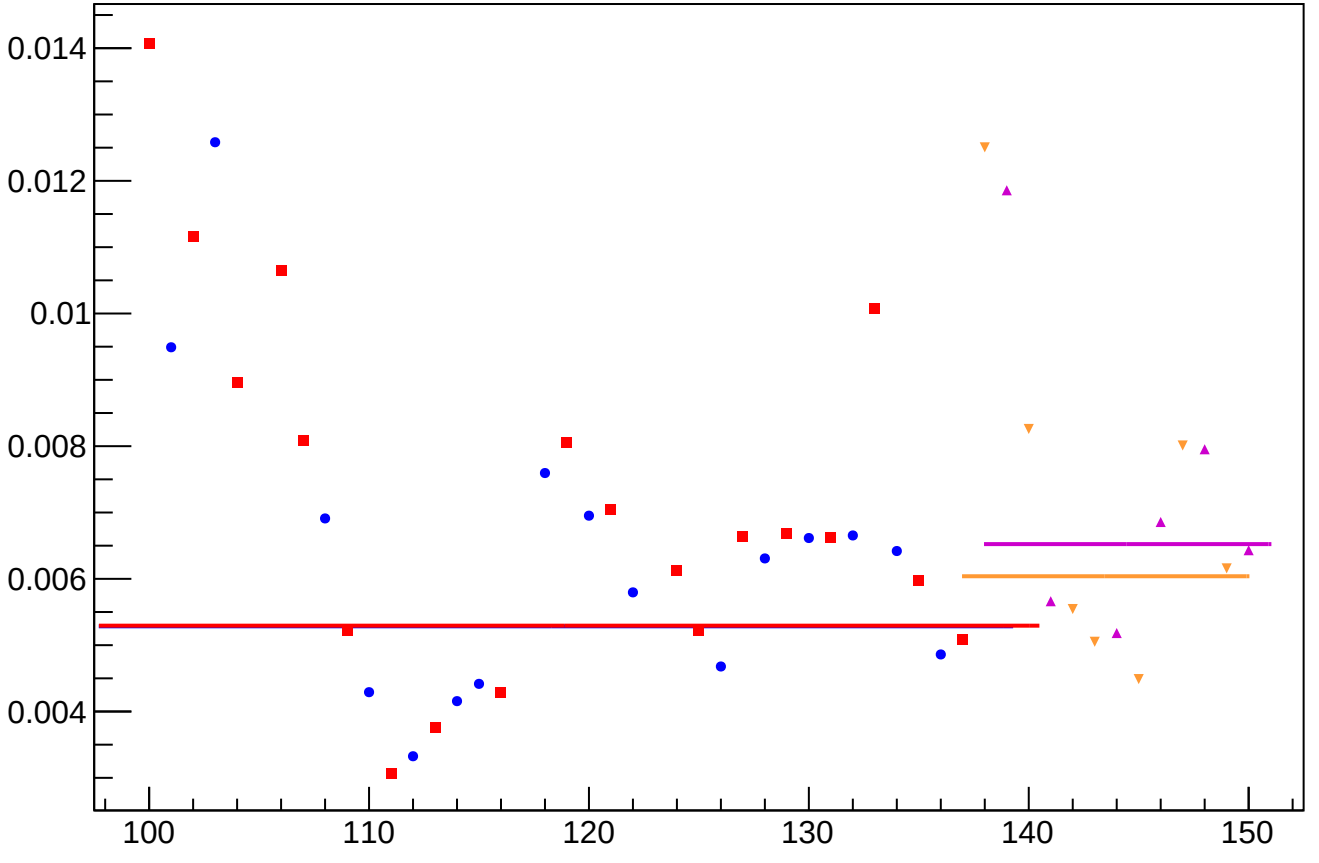
Right: 10.138+/-0.000 $\chi^2$/NDF: 18662438112.6/34

In: 9.882+/-0.000 $\chi^2$/NDF:45535162189.1/21

Out: 9.922+/-0.000 $\chi^2$/NDF:50906585586.4/25

All: 9.902+/-0.000 $\chi^2$/NDF: 96679190951.6/4

# yield_sam8_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1274133.0/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:741308.1/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 1792250.8/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:485884.6/5

Left: 0.006+/-0.000 $\chi^2$/NDF: 1250897.6/12

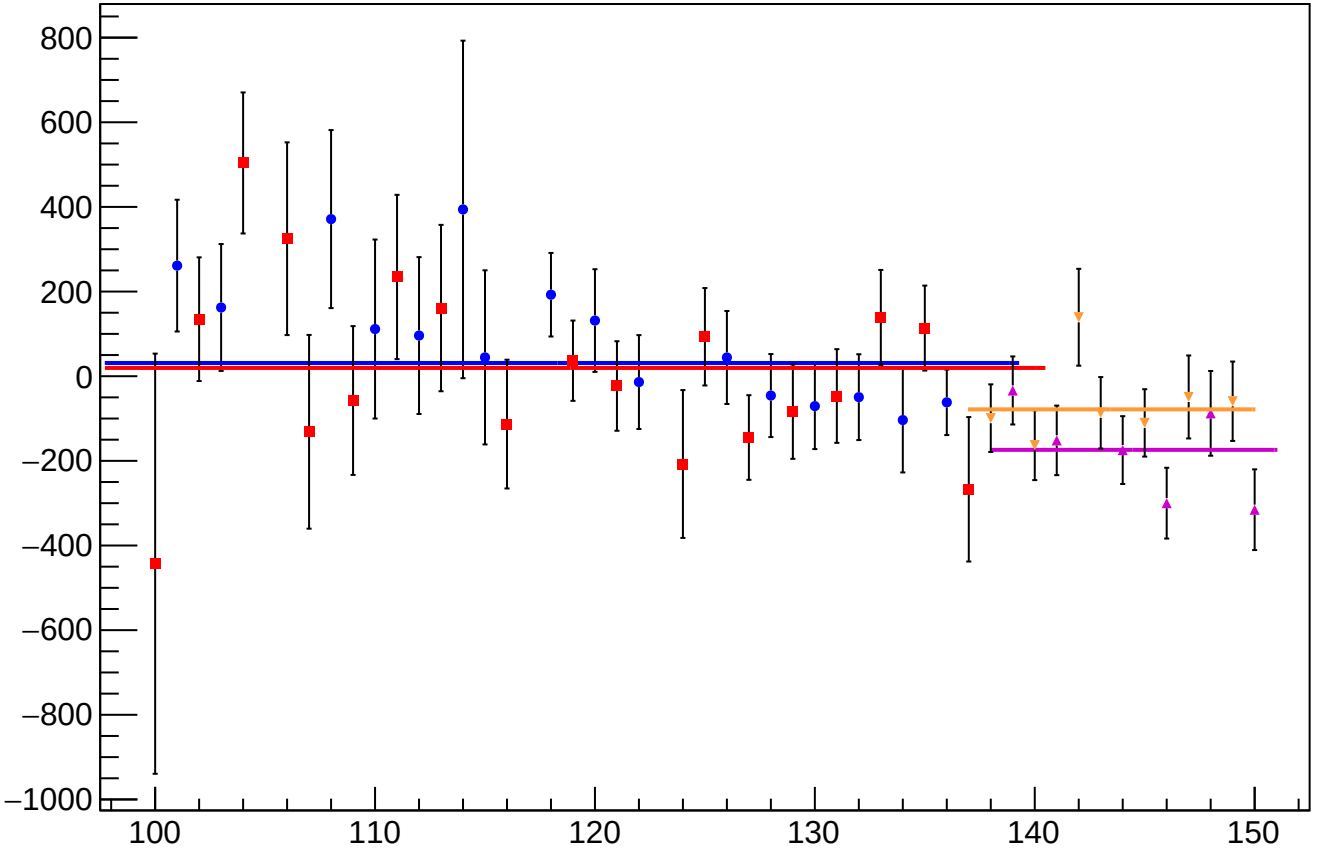
Right: 0.005+/-0.000 $\chi^2$/NDF: 3066401.4/34

In: 0.006+/-0.000 $\chi^2$/NDF:1956147.0/21

Out: 0.006+/-0.000 $\chi^2$/NDF:2610581.3/25

All: 0.006+/-0.000 $\chi^2$/NDF: 4572289.8/47

# reg_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.249+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -78.336+/-33.410 $\chi^2$/NDF:5.0/6

Right Out: 19.573+/-31.059 $\chi^2$/NDF: 25.9/18

Left In: -174.023+/-35.110 $\chi^2$/NDF:8.3/5

Left: -123.808+/-24.203 $\chi^2$/NDF: 17.3/12

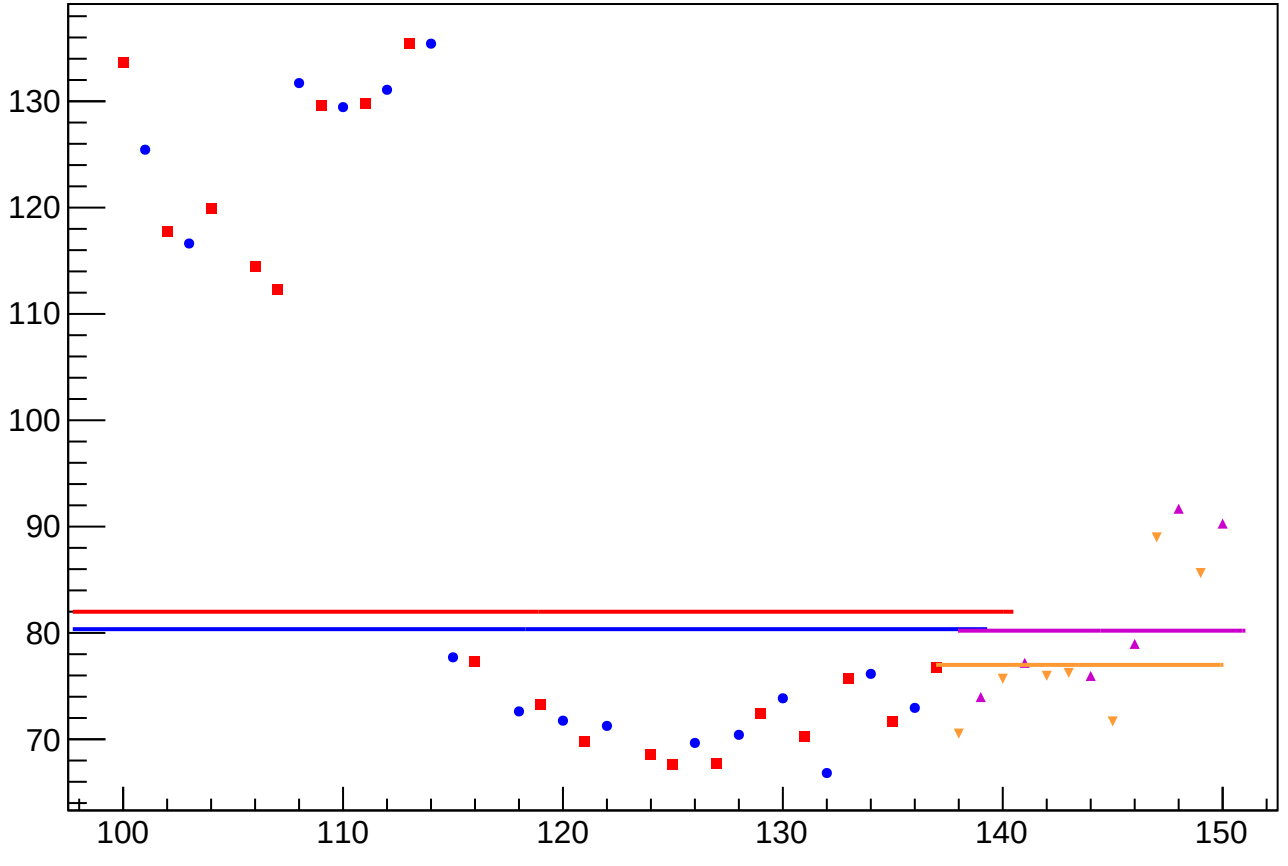
Right: 25.463+/-21.865 $\chi^2$/NDF: 41.1/34

In: -57.977+/-23.148 $\chi^2$/NDF:42.7/21

Out: -25.815+/-22.748 $\chi^2$/NDF:35.5/25

All: -41.616+/-16.225 $\chi^2$/NDF: 79.3/47

# reg_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.5/15

Left Out: 76.997+/-0.024 $\chi^2$/NDF:69757.3/6

Right Out: 81.993+/-0.022 $\chi^2$/NDF: 932337.7/18

Left In: 80.213+/-0.025 $\chi^2$/NDF:69425.8/5

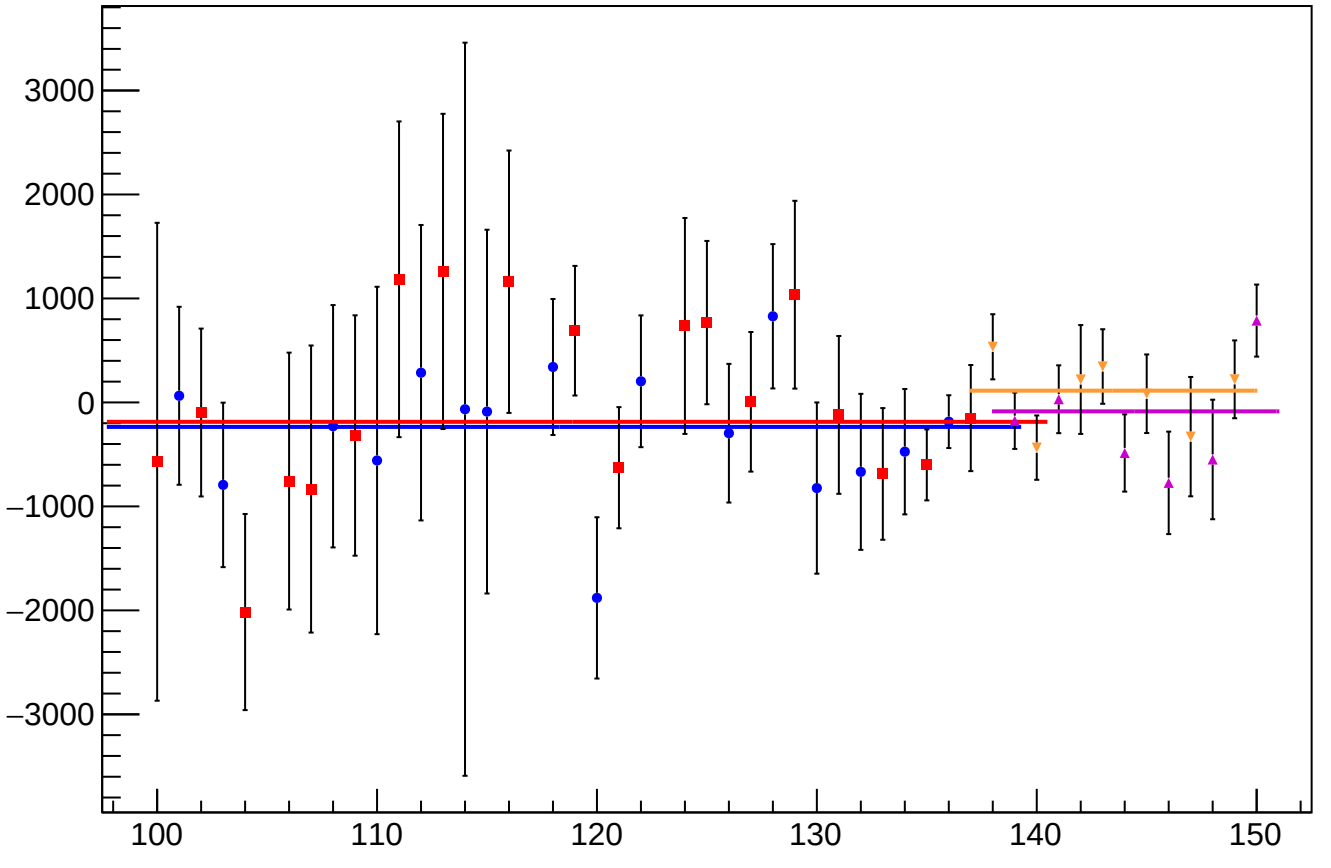
Left: 78.525+/-0.017 $\chi^2$/NDF: 147988.4/12

Right: 81.166+/-0.015 $\chi^2$/NDF: 1775186.5/34

In: 80.293+/-0.016 $\chi^2$/NDF:909483.6/21

Out: 79.677+/-0.016 $\chi^2$/NDF:1026085.2/25

All: 79.979+/-0.011 $\chi^2$/NDF: 1936288.5/47




Right In: -235.521+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 113.236+/-142.504 $\chi^2$/NDF:6.1/6

Right Out: -186.618+/-170.394 $\chi^2$/NDF: 16.0/18

Left In: -85.898+/-147.857 $\chi^2$/NDF:10.3/5

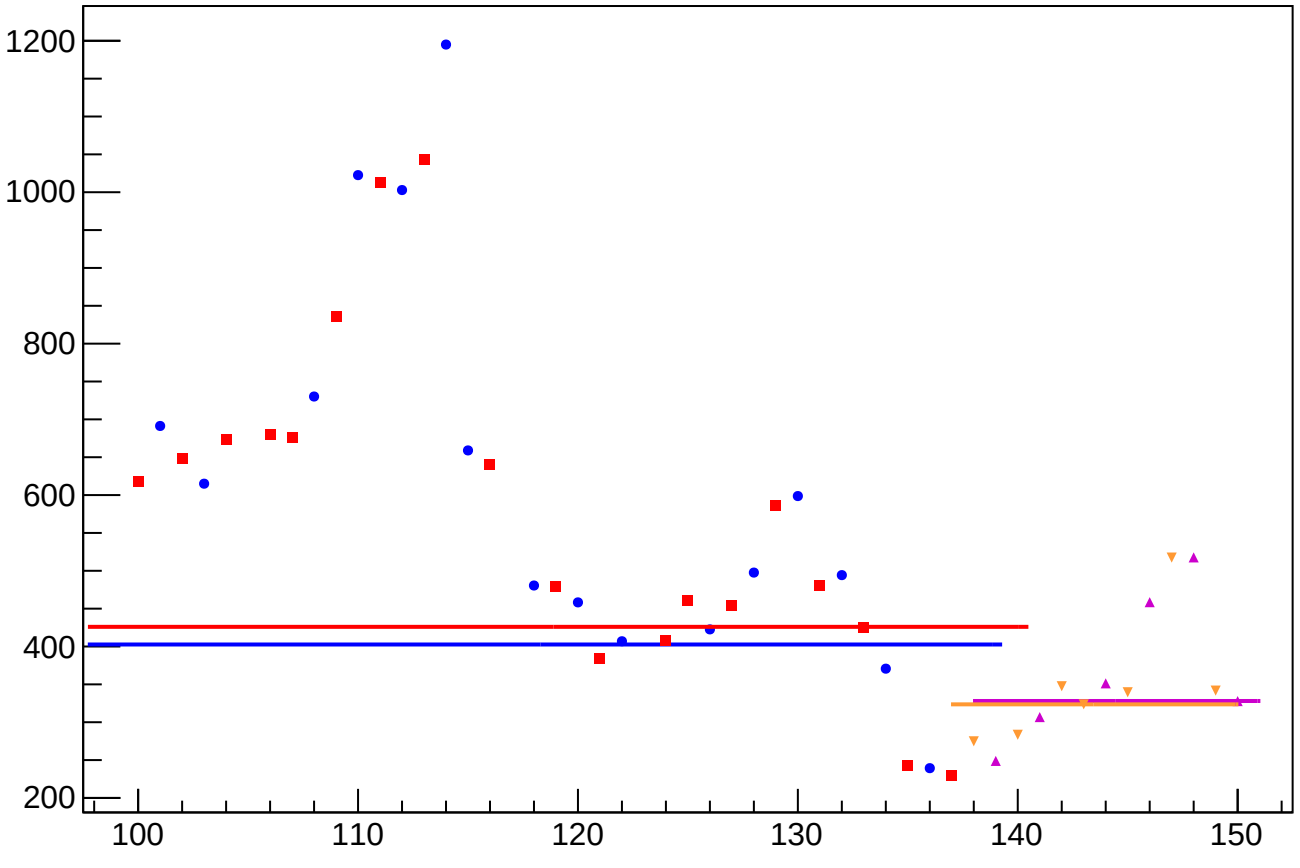
Left: 17.339+/-102.606 $\chi^2$/NDF: 17.4/12

Right: -212.039+/-118.073 $\chi^2$/NDF: 25.9/34

In: -153.091+/-109.745 $\chi^2$/NDF:20.7/21

Out: -10.174+/-109.314 $\chi^2$/NDF:23.9/25

All: -81.352+/-77.449 $\chi^2$/NDF: 45.5/47




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360092.2/15

Left Out: 323.606+/-0.101 $\chi^2$/NDF:322868.8/6

Right Out: 425.980+/-0.120 $\chi^2$/NDF: 2368792.4/18

Left In: 328.038+/-0.105 $\chi^2$/NDF:545092.4/5

Left: 325.741+/-0.073 $\chi^2$/NDF: 868892.7/12

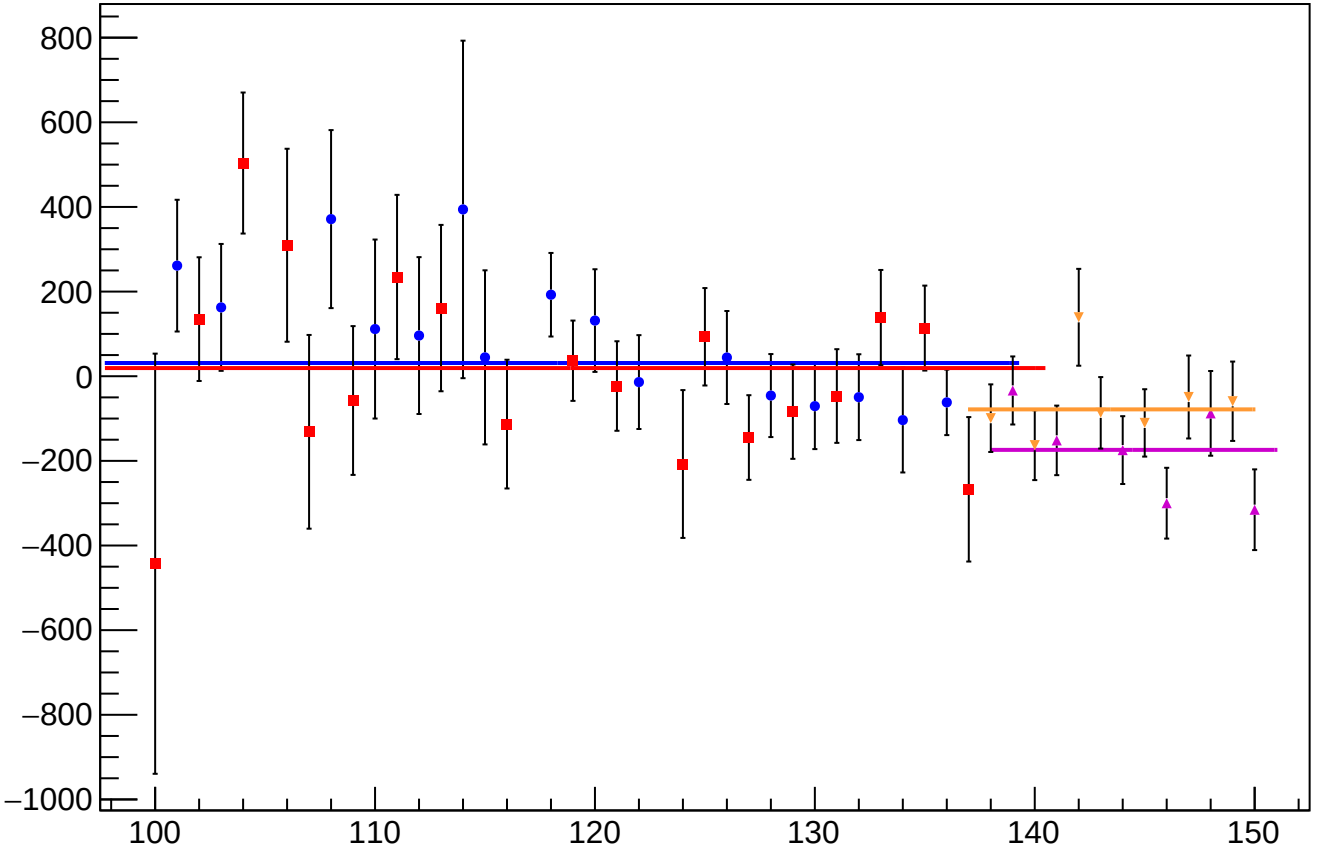
Right: 413.856+/-0.083 $\chi^2$/NDF: 4748361.6/34

In: 361.549+/-0.078 $\chi^2$/NDF:3133943.8/21

Out: 365.740+/-0.077 $\chi^2$/NDF:3116467.3/25

All: 363.653+/-0.055 $\chi^2$/NDF: 6251875.5/47

# cor_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -78.337+/-33.410 $\chi^2$/NDF:5.0/6

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -174.024+/-35.110 $\chi^2$/NDF:8.3/5

Left: -123.808+/-24.203 $\chi^2$/NDF: 17.3/12

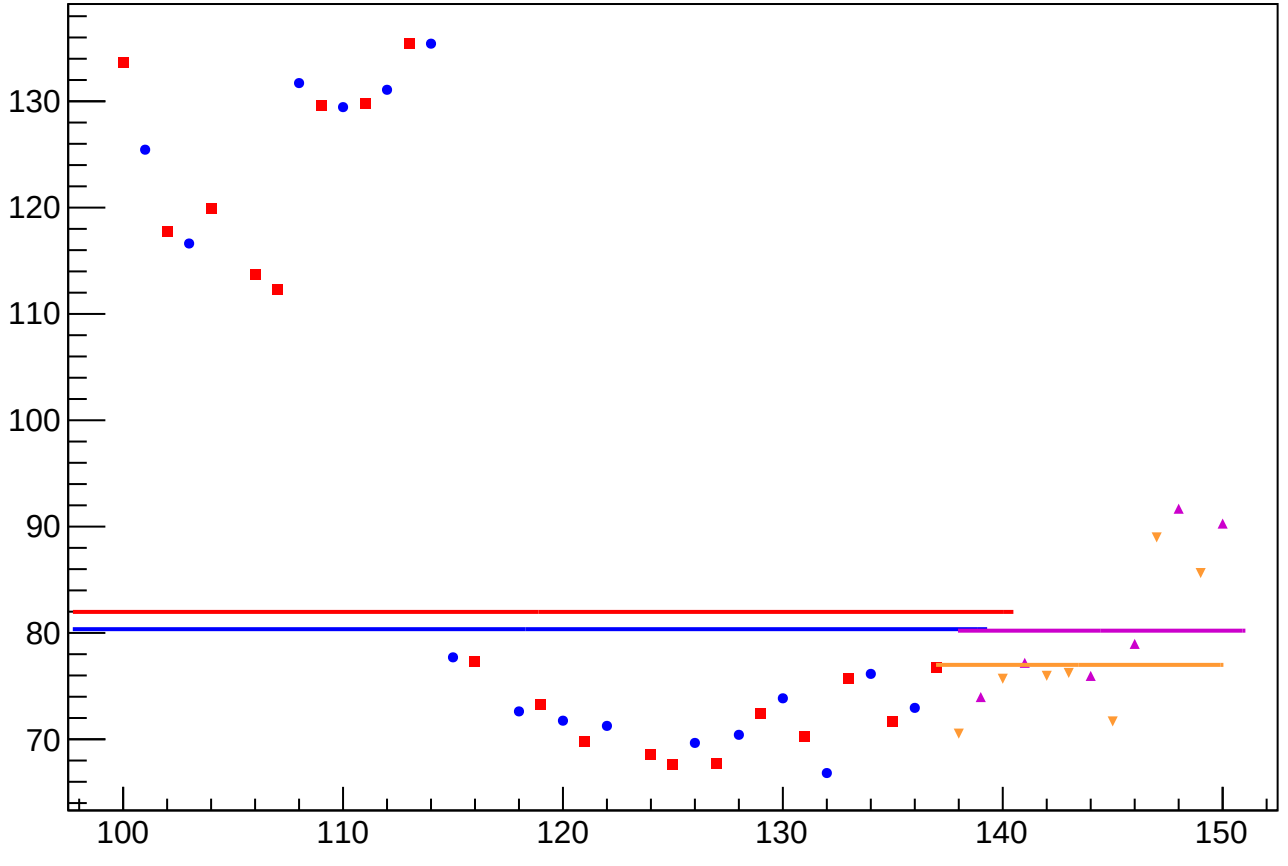
Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -57.972+/-23.148 $\chi^2$/NDF:42.7/21

Out: -25.973+/-22.748 $\chi^2$/NDF:35.3/25

All: -41.694+/-16.225 $\chi^2$/NDF: 79.0/47

# cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 76.997+/-0.024 $\chi^2$/NDF:69757.3/6

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 80.213+/-0.025 $\chi^2$/NDF:69425.8/5

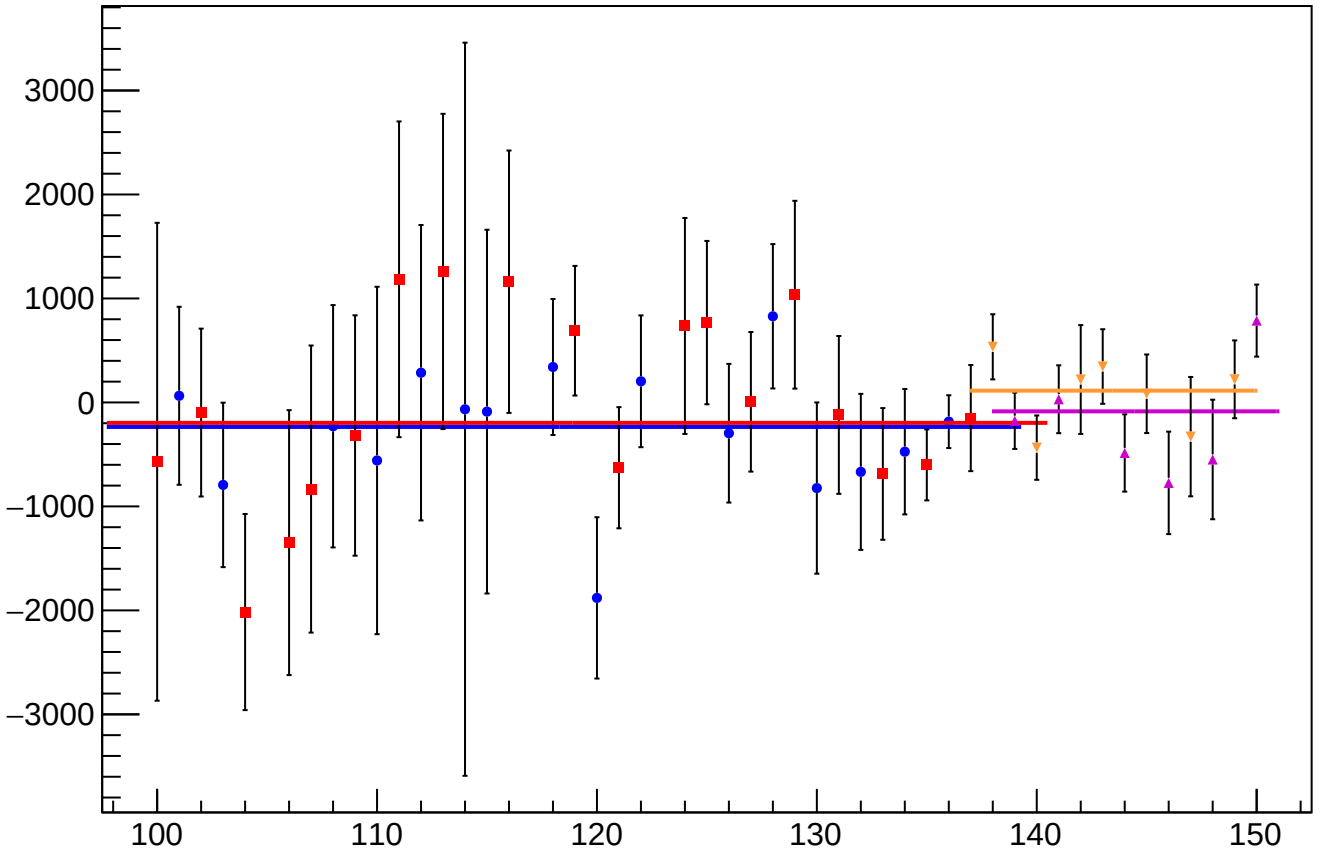
Left: 78.525+/-0.017 $\chi^2$/NDF: 147988.4/12

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 80.293+/-0.016 $\chi^2$/NDF:909483.8/21

Out: 79.669+/-0.016 $\chi^2$/NDF:1024069.1/25

All: 79.975+/-0.011 $\chi^2$/NDF: 1934291.8/47




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 113.235+/-142.504 $\chi^2$/NDF:6.1/6

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: -85.900+/-147.857 $\chi^2$/NDF:10.3/5

Left: 17.337+/-102.606 $\chi^2$/NDF: 17.4/12

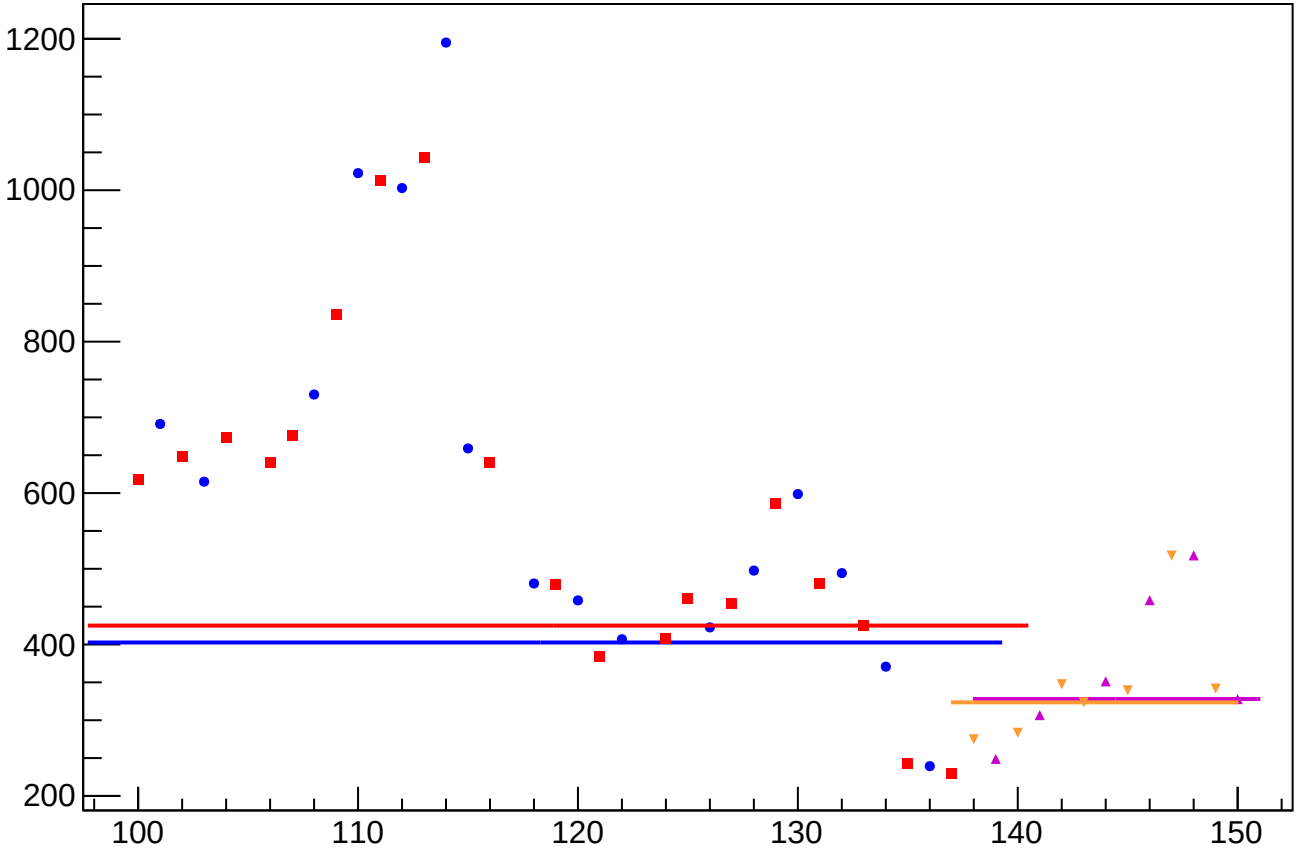
Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -153.092+/-109.745 $\chi^2$/NDF:20.7/21

Out: -14.189+/-109.340 $\chi^2$/NDF:24.6/25

All: -83.383+/-77.458 $\chi^2$/NDF: 46.2/47

# asym_sam1_cor_correction_rms vs Slug, Sign Corrected




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 323.606+/-0.101 $\chi^2$/NDF:322872.7/6

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 328.038+/-0.105 $\chi^2$/NDF:545092.9/5

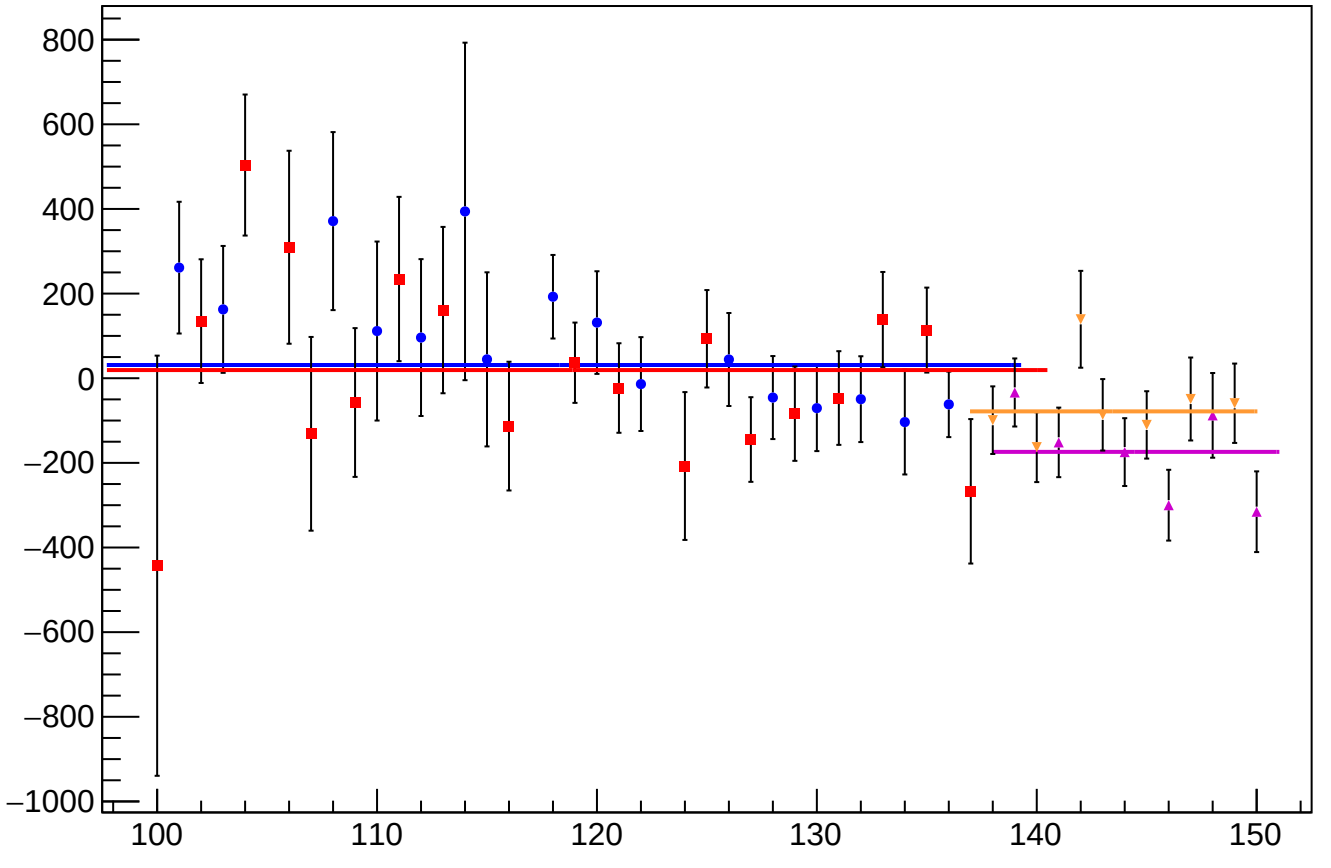
Left: 325.741+/-0.073 $\chi^2$/NDF: 868897.2/12

Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 361.549+/-0.078 $\chi^2$/NDF:3133940.2/21

Out: 365.303+/-0.077 $\chi^2$/NDF:3080233.4/25

All: 363.433+/-0.055 $\chi^2$/NDF: 6215348.5/47




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -78.337+/-33.410 $\chi^2$/NDF:5.0/6

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -174.024+/-35.110 $\chi^2$/NDF:8.3/5

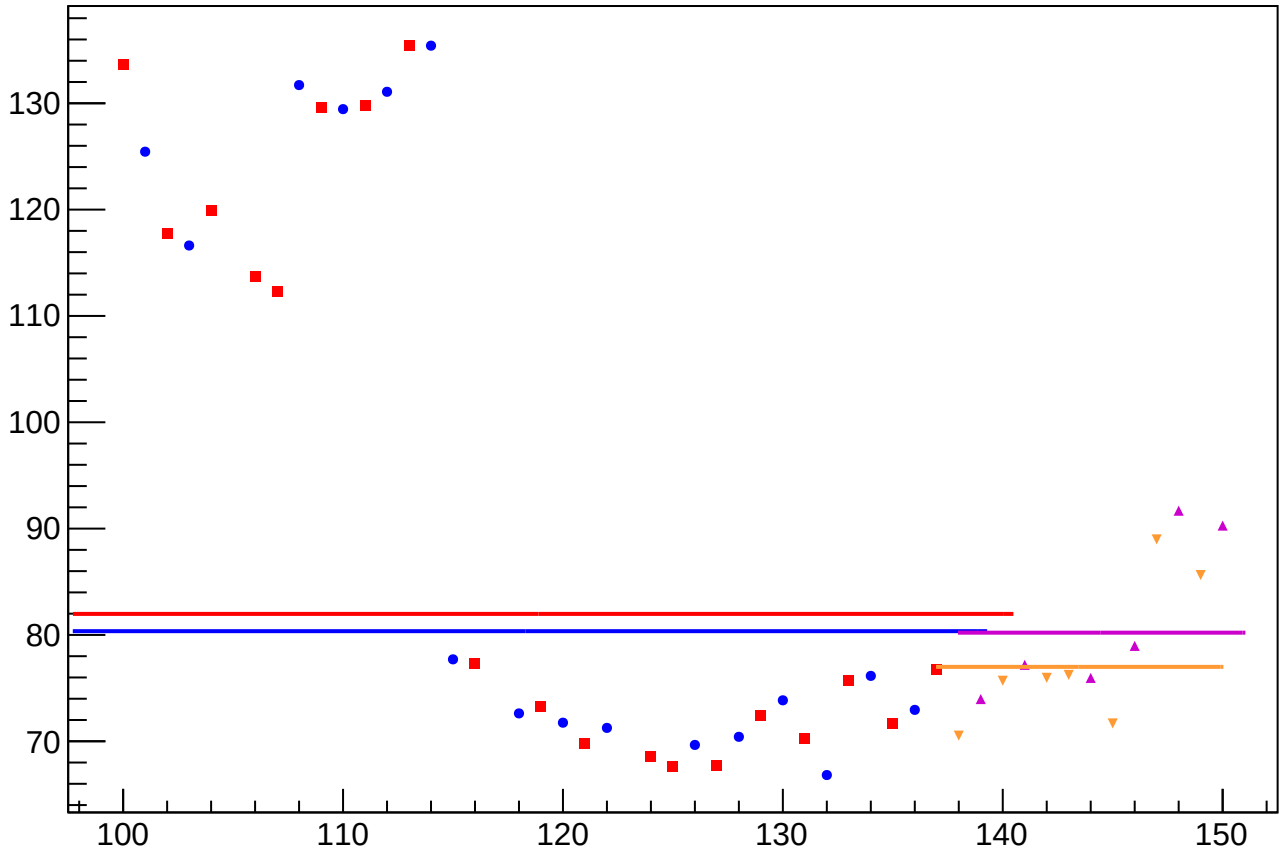
Left: -123.808+/-24.203 $\chi^2$/NDF: 17.3/12

Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -57.972+/-23.148 $\chi^2$/NDF:42.7/21

Out: -25.973+/-22.748 $\chi^2$/NDF:35.3/25

All: -41.694+/-16.225 $\chi^2$/NDF: 79.0/47




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 76.997+/-0.024 $\chi^2$/NDF:69757.3/6

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 80.213+/-0.025 $\chi^2$/NDF:69425.8/5

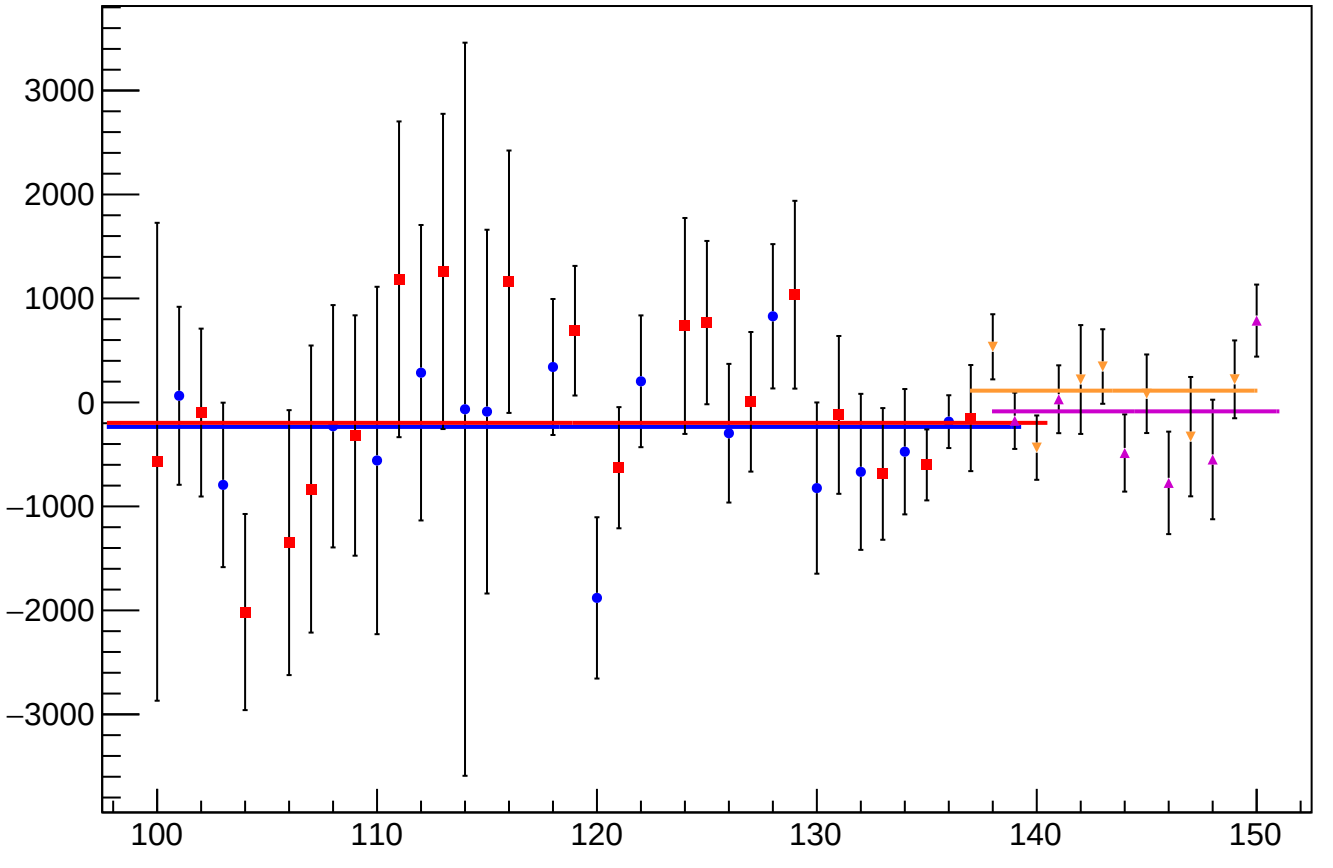
Left: 78.525+/-0.017 $\chi^2$/NDF: 147988.4/12

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 80.293+/-0.016 $\chi^2$/NDF:909483.8/21

Out: 79.669+/-0.016 $\chi^2$/NDF:1024069.1/25

All: 79.975+/-0.011 $\chi^2$/NDF: 1934291.8/47




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 113.235+/-142.504 $\chi^2$/NDF:6.1/6

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: -85.900+/-147.857 $\chi^2$/NDF:10.3/5

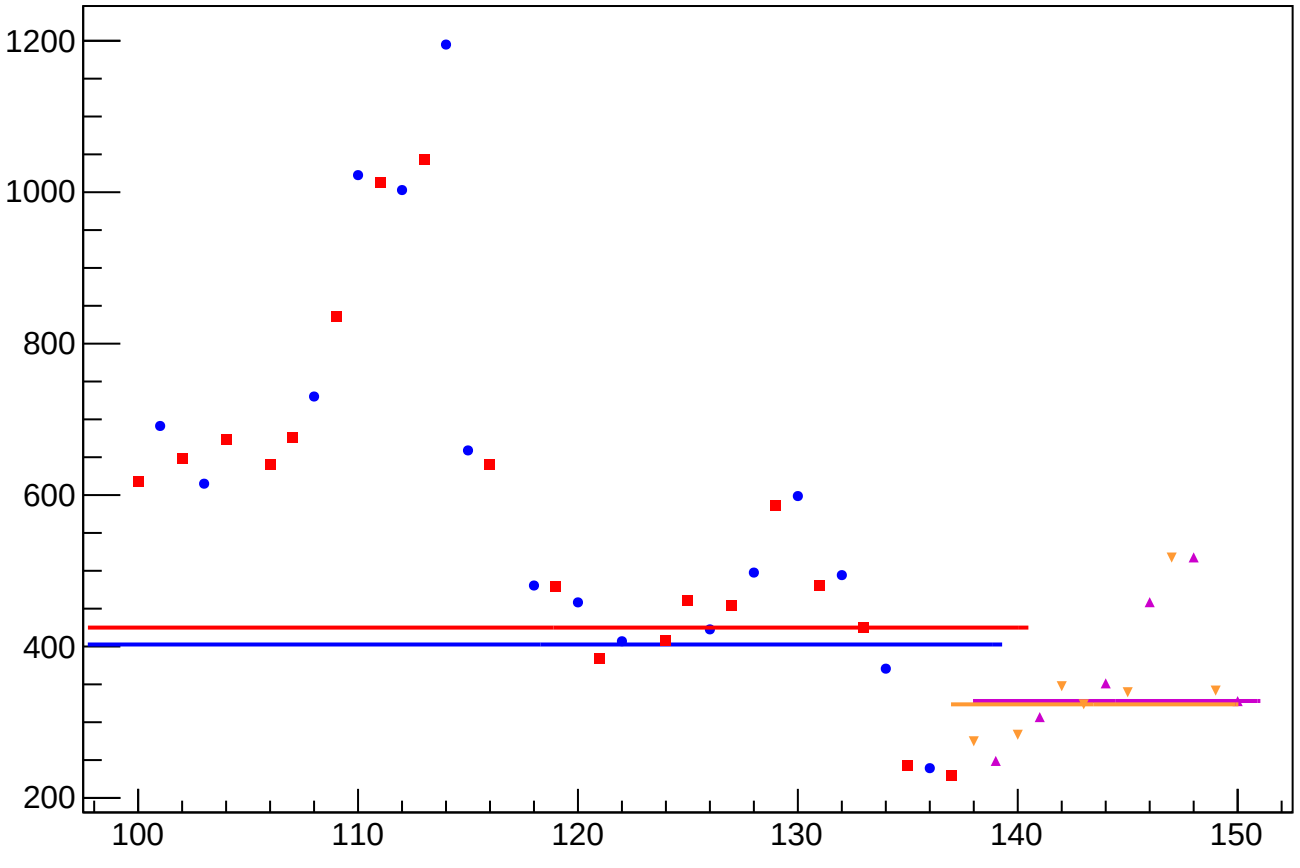
Left: 17.337+/-102.606 $\chi^2$/NDF: 17.4/12

Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -153.092+/-109.745 $\chi^2$/NDF:20.7/21

Out: -14.189+/-109.340 $\chi^2$/NDF:24.6/25

All: -83.383+/-77.458 $\chi^2$/NDF: 46.2/47




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 323.606+/-0.101 $\chi^2$/NDF:322872.7/6

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 328.038+/-0.105 $\chi^2$/NDF:545092.9/5

Left: 325.741+/-0.073 $\chi^2$/NDF: 868897.2/12

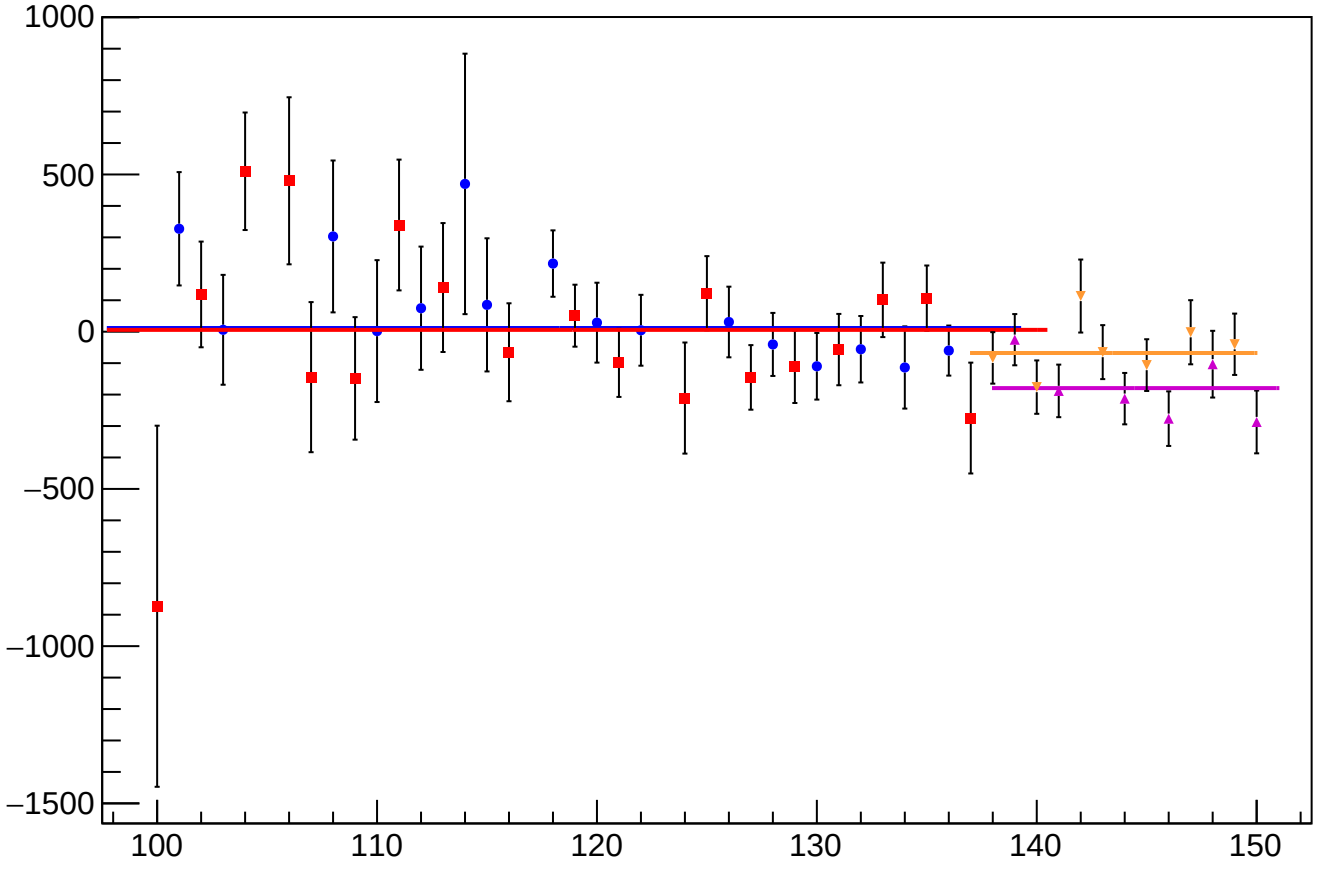
Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 361.549+/-0.078 $\chi^2$/NDF:3133940.2/21

Out: 365.303+/-0.077 $\chi^2$/NDF:3080233.4/25

All: 363.433+/-0.055 $\chi^2$/NDF: 6215348.5/47

# dit_asym_sam1_mean vs Slug, Sign Corrected




Right In: 11.651+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -67.726+/-34.360 $\chi^2$/NDF:4.8/6

Right Out: 5.817+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -179.389+/-36.141 $\chi^2$/NDF:6.7/5

Left: -120.738+/-24.902 $\chi^2$/NDF: 16.5/12

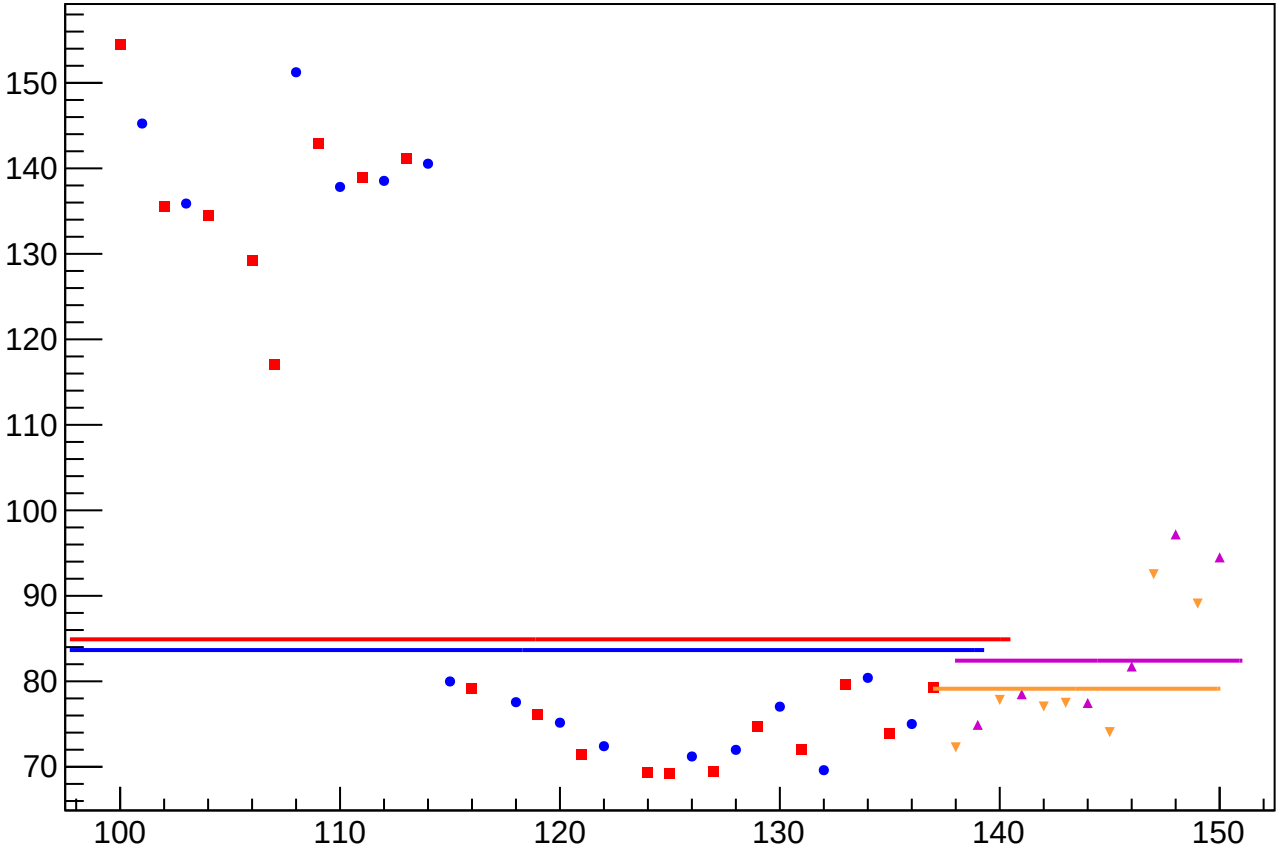
Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -73.172+/-24.082 $\chi^2$/NDF:35.7/21

Out: -28.846+/-23.590 $\chi^2$/NDF:36.0/25

All: -50.551+/-16.852 $\chi^2$/NDF: 73.5/47

# dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.6/15

Left Out: 79.135+/-0.024 $\chi^2$/NDF:78910.1/6

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121669.5/18

Left In: 82.417+/-0.026 $\chi^2$/NDF:96911.6/5

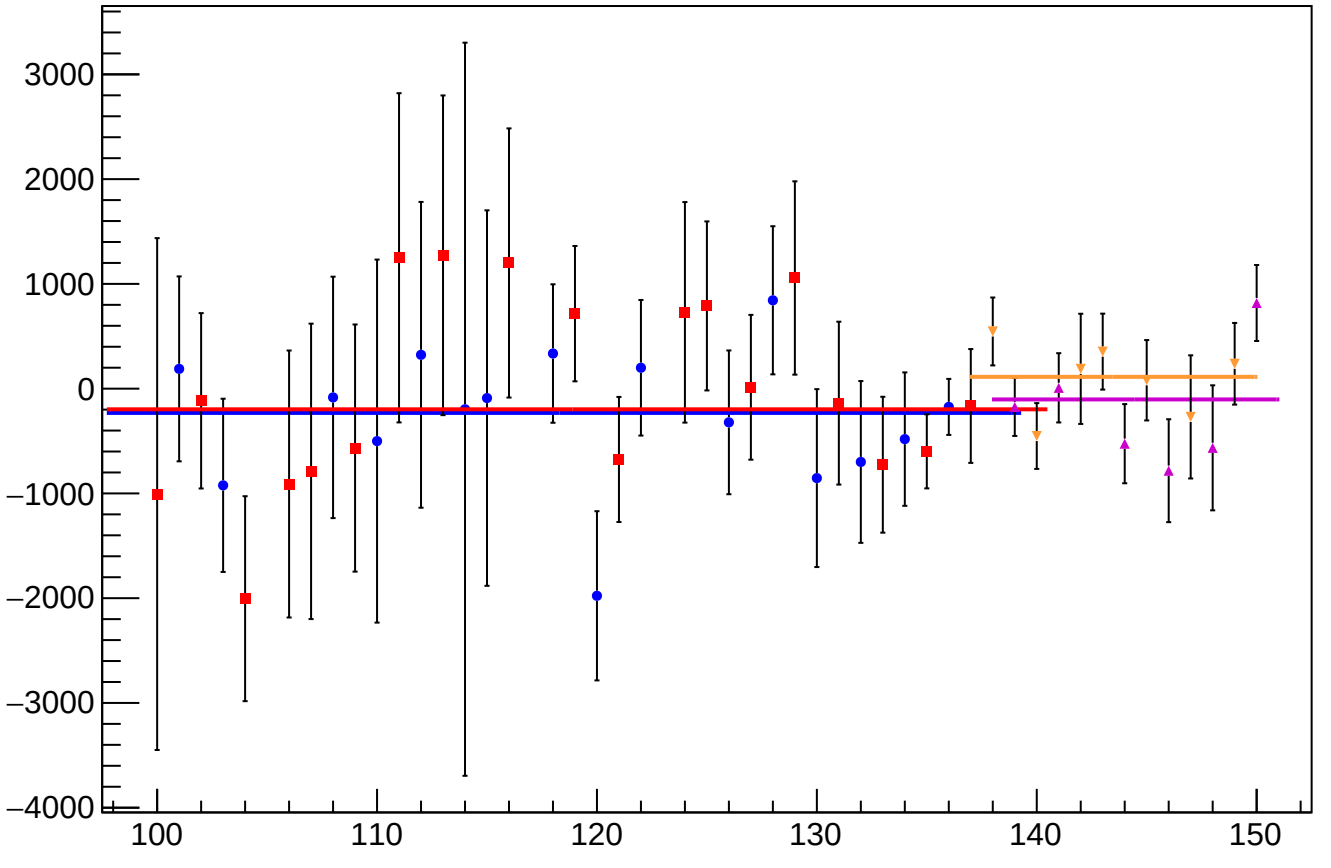
Left: 80.693+/-0.018 $\chi^2$/NDF: 184483.8/12

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157969.4/34

In: 83.107+/-0.017 $\chi^2$/NDF:1133014.9/21

Out: 82.190+/-0.017 $\chi^2$/NDF:1230474.6/25

All: 82.639+/-0.012 $\chi^2$/NDF: 2364968.7/47




Right In: -231.407+/-170.133 $\chi^2$/NDF: 10.4/15

Left Out: 112.714+/-145.609 $\chi^2$/NDF:6.0/6

Right Out: -197.206+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: -102.950+/-151.144 $\chi^2$/NDF:10.4/5

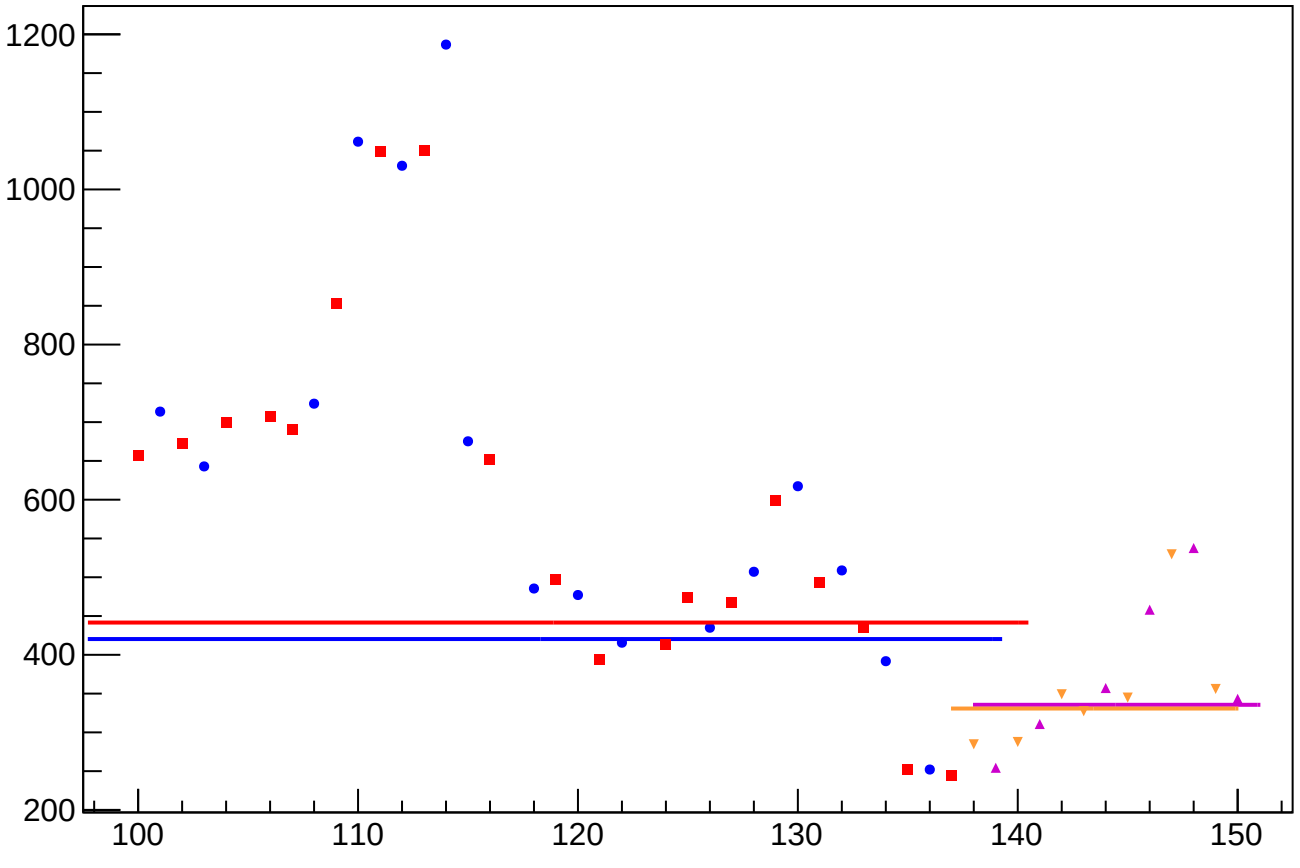
Left: 8.903+/-104.863 $\chi^2$/NDF: 17.5/12

Right: -214.895+/-122.354 $\chi^2$/NDF: 26.3/34

In: -159.613+/-112.995 $\chi^2$/NDF:21.1/21

Out: -13.142+/-112.214 $\chi^2$/NDF:23.8/25

All: -85.870+/-79.622 $\chi^2$/NDF: 45.7/47




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254610.0/15

Left Out: 330.745+/-0.103 $\chi^2$/NDF:320831.5/6

Right Out: 441.598+/-0.125 $\chi^2$/NDF: 2307588.5/18

Left In: 335.548+/-0.107 $\chi^2$/NDF:544925.5/5

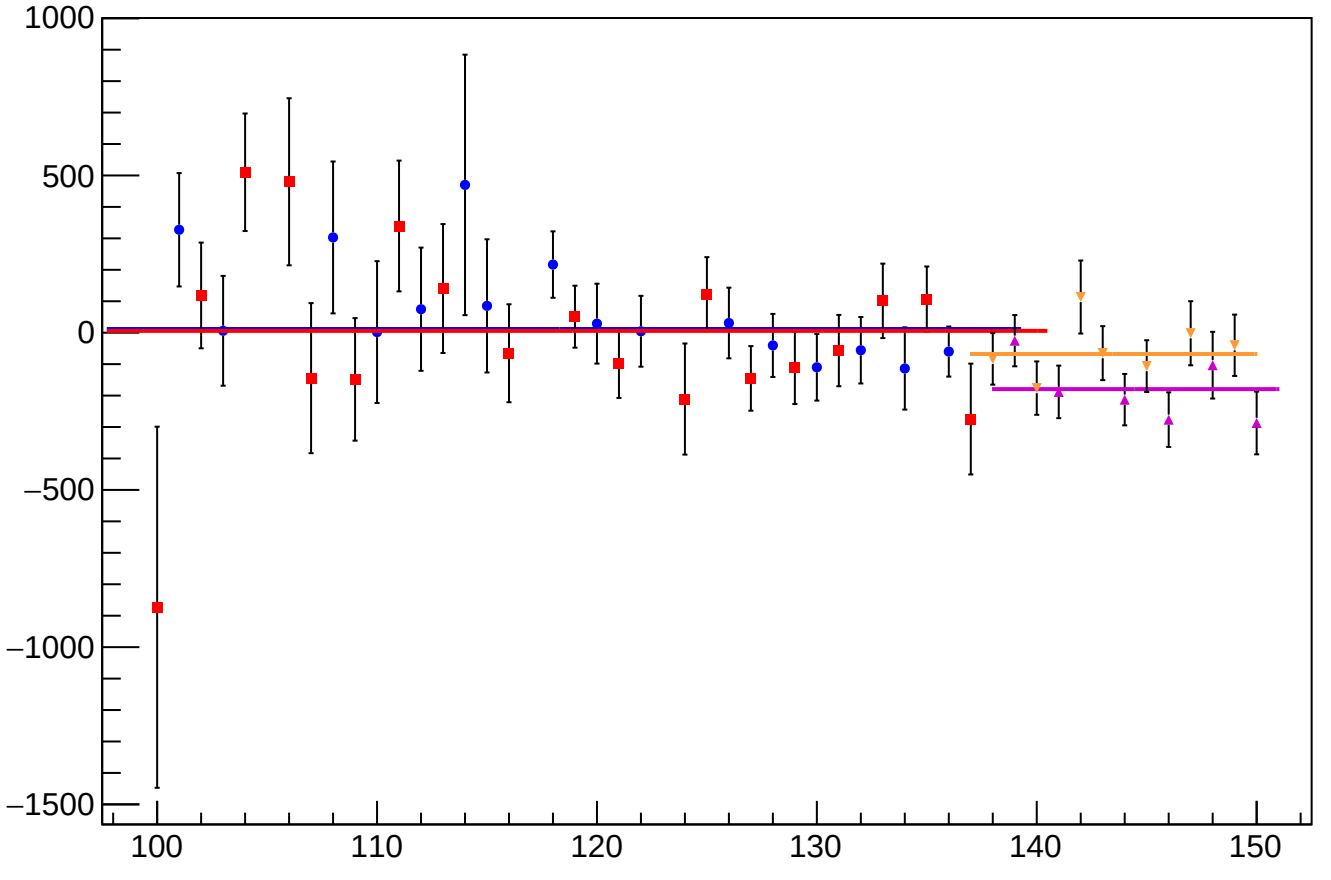
Left: 333.057+/-0.074 $\chi^2$/NDF: 866804.3/12

Right: 430.598+/-0.087 $\chi^2$/NDF: 4577288.4/34

In: 372.945+/-0.080 $\chi^2$/NDF:3077116.9/21

Out: 375.761+/-0.079 $\chi^2$/NDF:3099144.8/25

All: 374.363+/-0.056 $\chi^2$/NDF: 6176887.2/47




Right In: 11.652+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -67.727+/-34.360 $\chi^2$/NDF:4.8/6

Right Out: 5.816+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -179.389+/-36.141 $\chi^2$/NDF:6.7/5

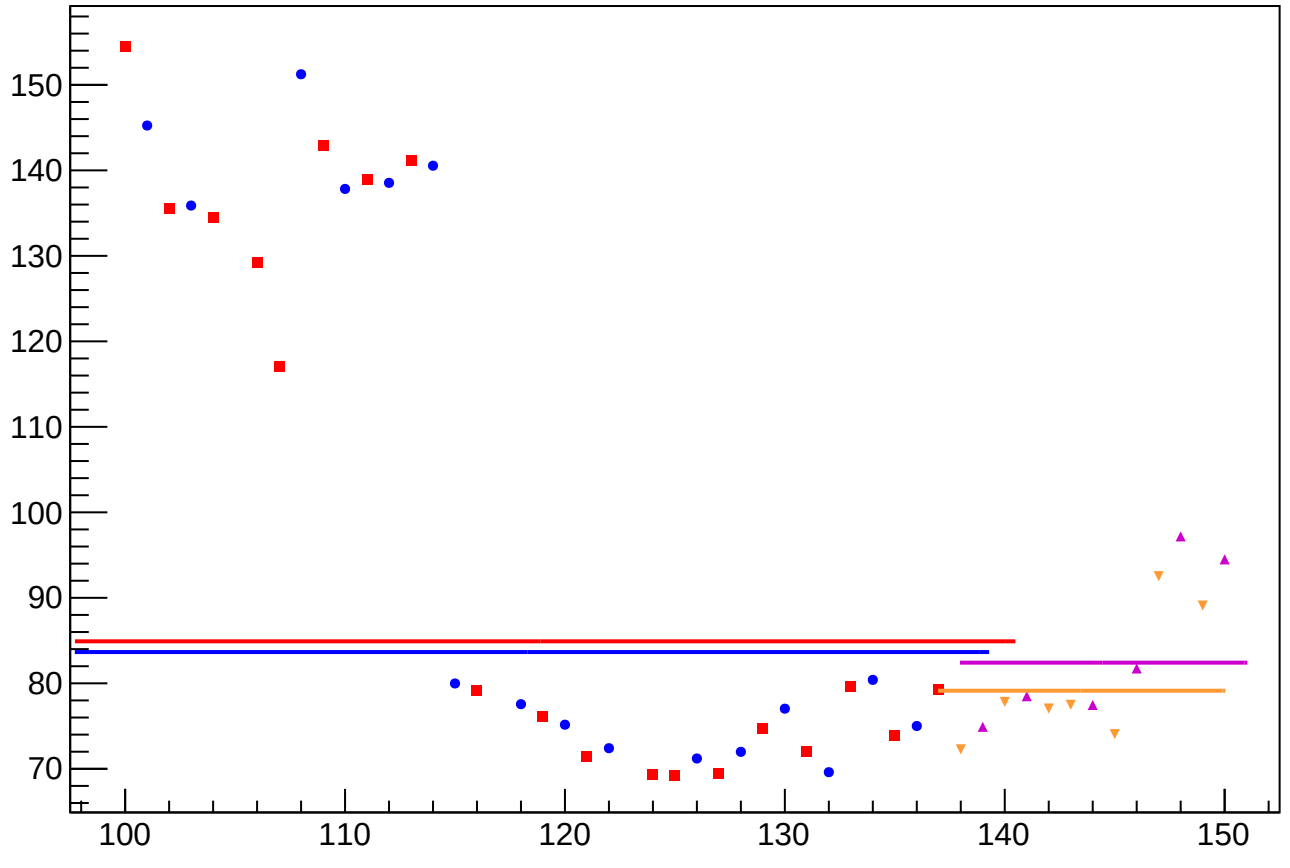
Left: -120.739+/-24.902 $\chi^2$/NDF: 16.5/12

Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -73.171+/-24.082 $\chi^2$/NDF:35.7/21

Out: -28.847+/-23.590 $\chi^2$/NDF:36.0/25

All: -50.551+/-16.852 $\chi^2$/NDF: 73.5/47




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.1/15

Left Out: 79.135+/-0.024 $\chi^2$/NDF:78909.7/6

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121668.5/18

Left In: 82.417+/-0.026 $\chi^2$/NDF:96910.9/5

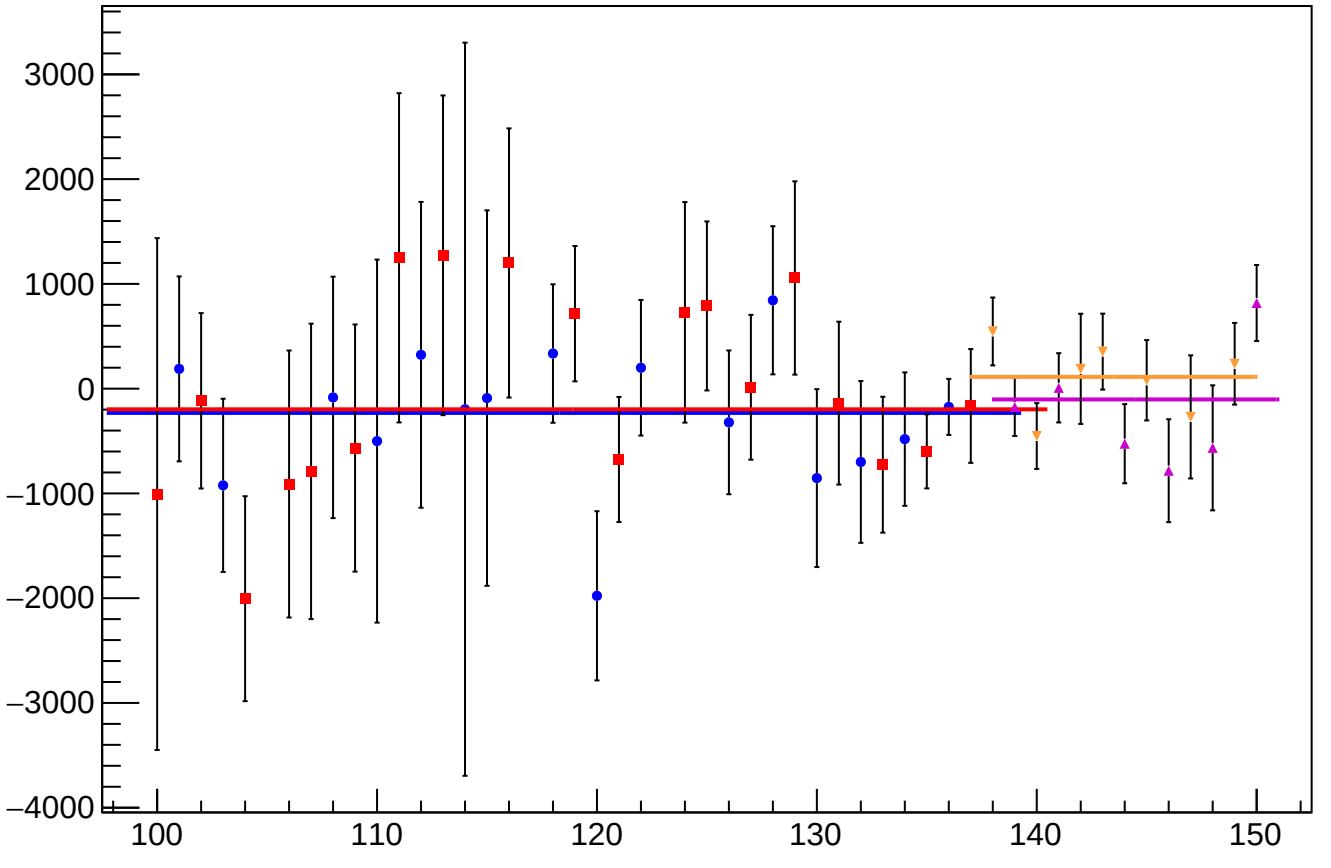
Left: 80.693+/-0.018 $\chi^2$/NDF: 184482.5/12

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157967.8/34

In: 83.106+/-0.017 $\chi^2$/NDF:1133013.5/21

Out: 82.190+/-0.017 $\chi^2$/NDF:1230472.6/25

All: 82.639+/-0.012 $\chi^2$/NDF: 2364965.2/47




Right In: -231.405+/-170.132 $\chi^2$/NDF: 10.4/15

Left Out: 112.713+/-145.609 $\chi^2$/NDF:6.0/6

Right Out: -197.207+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: -102.950+/-151.144 $\chi^2$/NDF:10.4/5

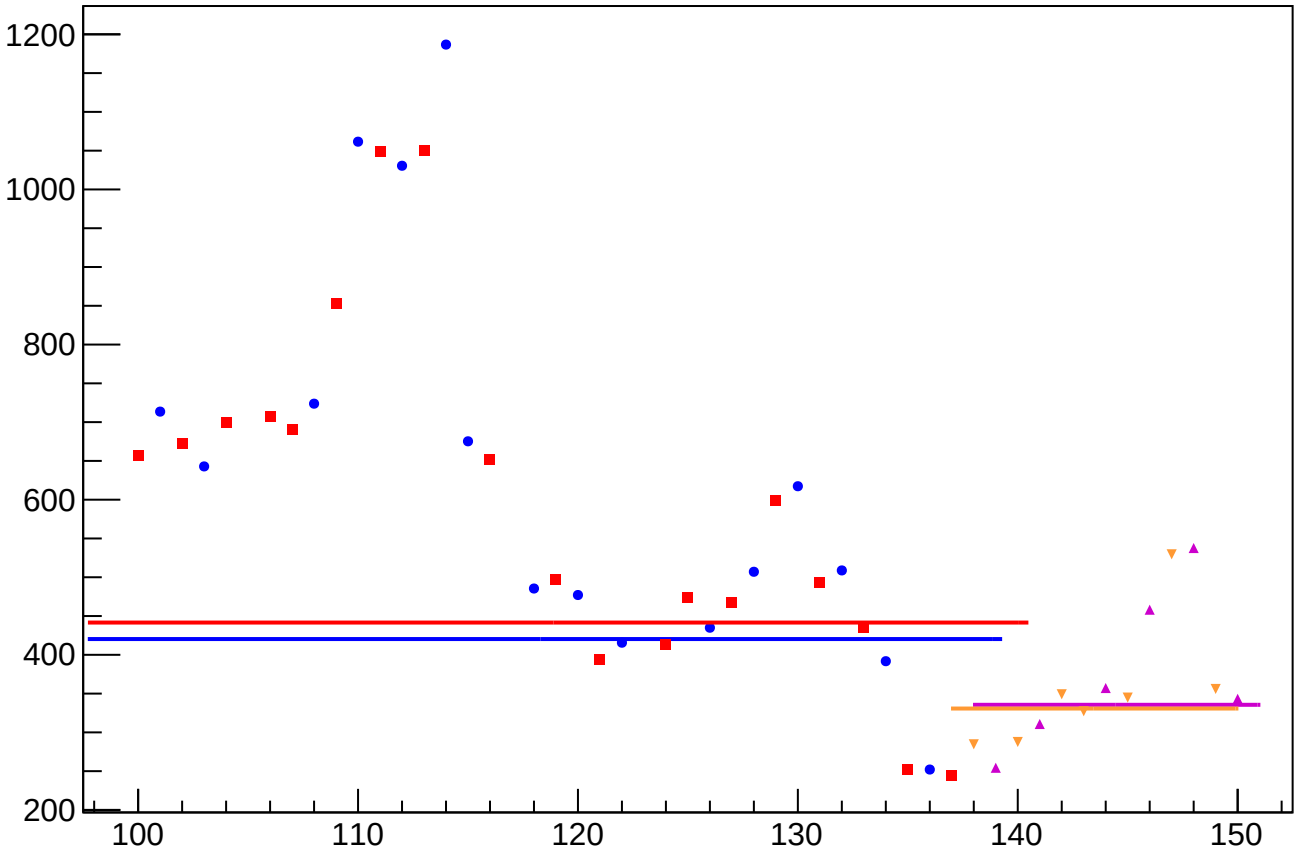
Left: 8.903+/-104.863 $\chi^2$/NDF: 17.5/12

Right: -214.894+/-122.354 $\chi^2$/NDF: 26.3/34

In: -159.612+/-112.994 $\chi^2$/NDF:21.1/21

Out: -13.142+/-112.214 $\chi^2$/NDF:23.8/25

All: -85.870+/-79.622 $\chi^2$/NDF: 45.7/47




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254614.9/15

Left Out: 330.745+/-0.103 $\chi^2$/NDF:320831.3/6

Right Out: 441.597+/-0.125 $\chi^2$/NDF: 2307595.1/18

Left In: 335.547+/-0.107 $\chi^2$/NDF:544926.1/5

Left: 333.056+/-0.074 $\chi^2$/NDF: 866804.6/12

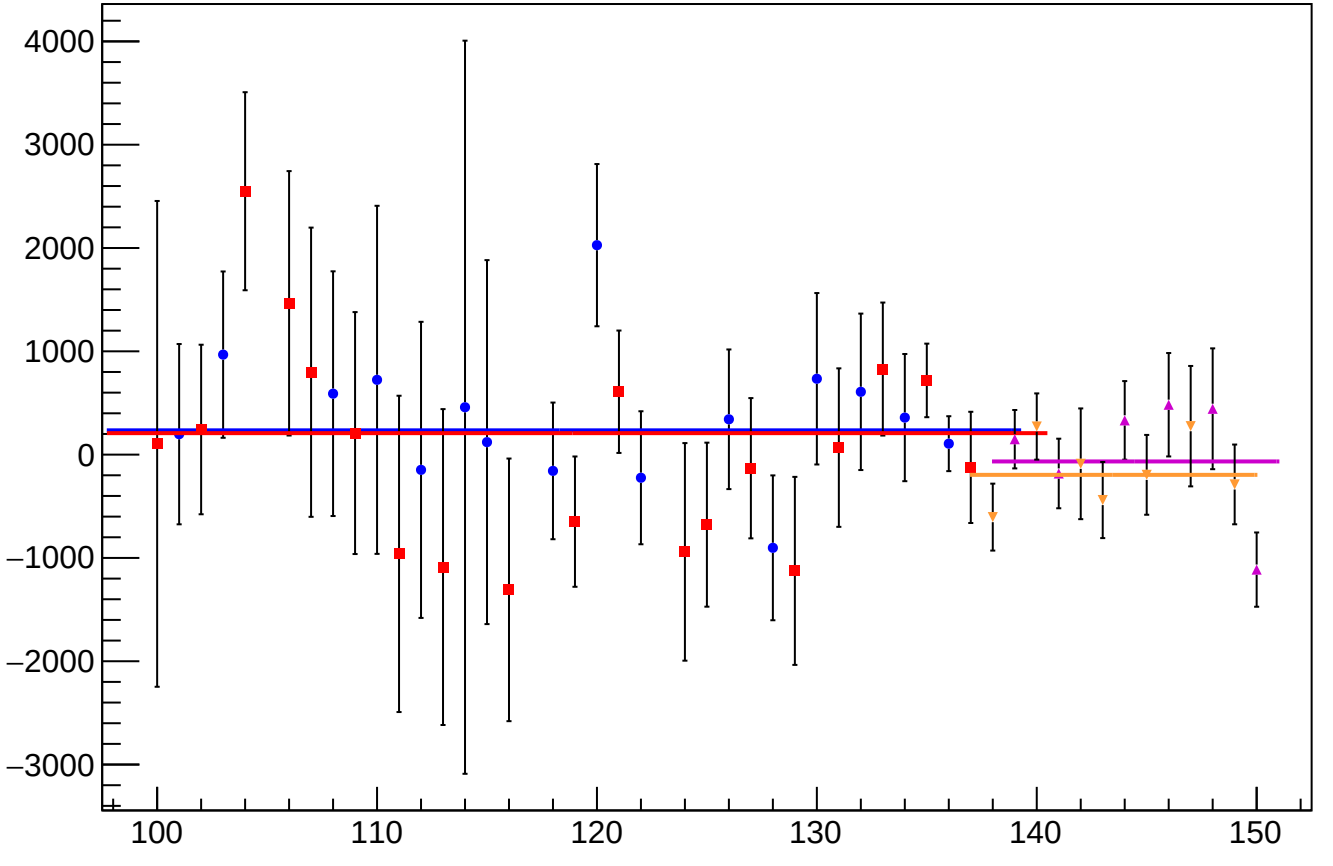
Right: 430.597+/-0.087 $\chi^2$/NDF: 4577299.7/34

In: 372.945+/-0.080 $\chi^2$/NDF:3077120.6/21

Out: 375.761+/-0.079 $\chi^2$/NDF:3099148.1/25

All: 374.362+/-0.056 $\chi^2$/NDF: 6176894.1/47

# asym_sam1_mean vs Slug, Sign Corrected




Right In: 235.054+/-168.199 $\chi^2$/NDF: 10.7/15

Left Out: -195.820+/-146.704 $\chi^2$/NDF:4.9/6

Right Out: 207.936+/-174.716 $\chi^2$/NDF: 20.4/18

Left In: -66.064+/-152.662 $\chi^2$/NDF:12.2/5

Left: -133.523+/-105.779 $\chi^2$/NDF: 17.5/12

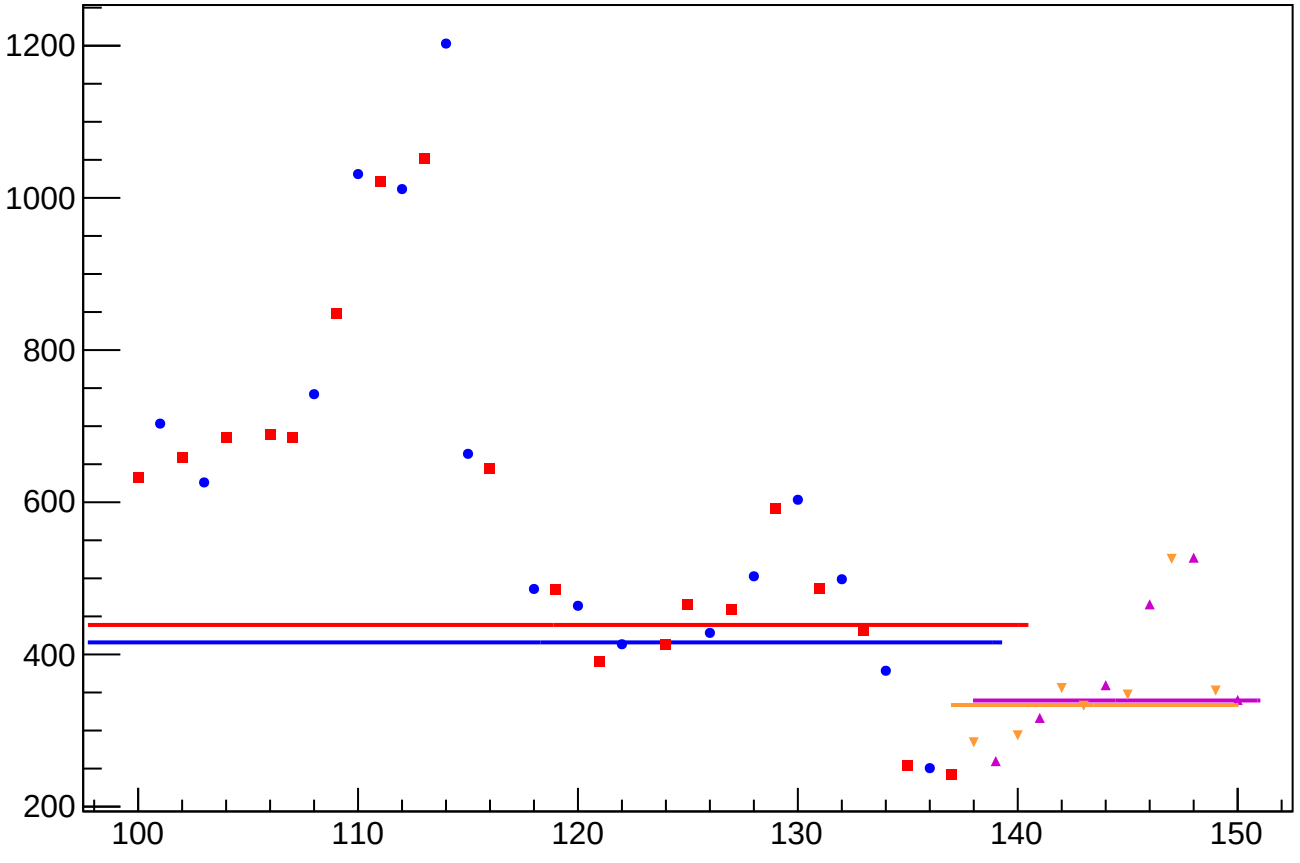
Right: 222.010+/-121.173 $\chi^2$/NDF: 31.1/34

In: 69.948+/-113.043 $\chi^2$/NDF:24.7/21

Out: -28.864+/-112.350 $\chi^2$/NDF:28.4/25

All: 20.238+/-79.687 $\chi^2$/NDF: 53.5/47

# asym_sam1_rms vs Slug, Sign Corrected




Right In: 415.840+/-0.119 $\chi^2$/NDF: 2223949.6/15

Left Out: 333.540+/-0.104 $\chi^2$/NDF:304809.5/6

Right Out: 438.773+/-0.124 $\chi^2$/NDF: 2234776.6/18

Left In: 339.472+/-0.108 $\chi^2$/NDF:507512.6/5

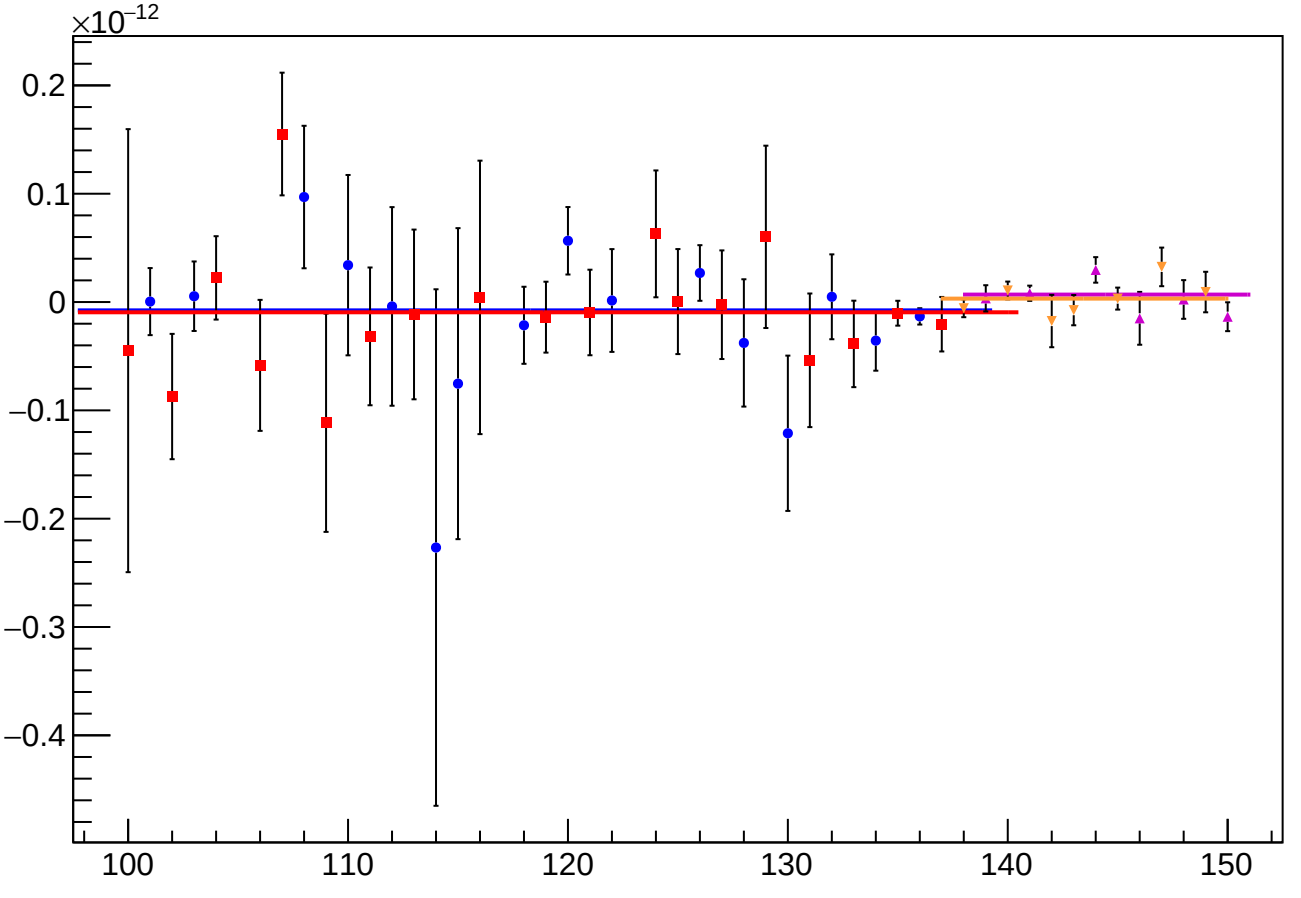
Left: 336.388+/-0.075 $\chi^2$/NDF: 813892.1/12

Right: 426.871+/-0.086 $\chi^2$/NDF: 4476610.3/34

In: 373.967+/-0.080 $\chi^2$/NDF:2957523.1/21

Out: 377.055+/-0.079 $\chi^2$/NDF:2965117.8/25

All: 375.520+/-0.056 $\chi^2$/NDF: 5923391.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.1/5

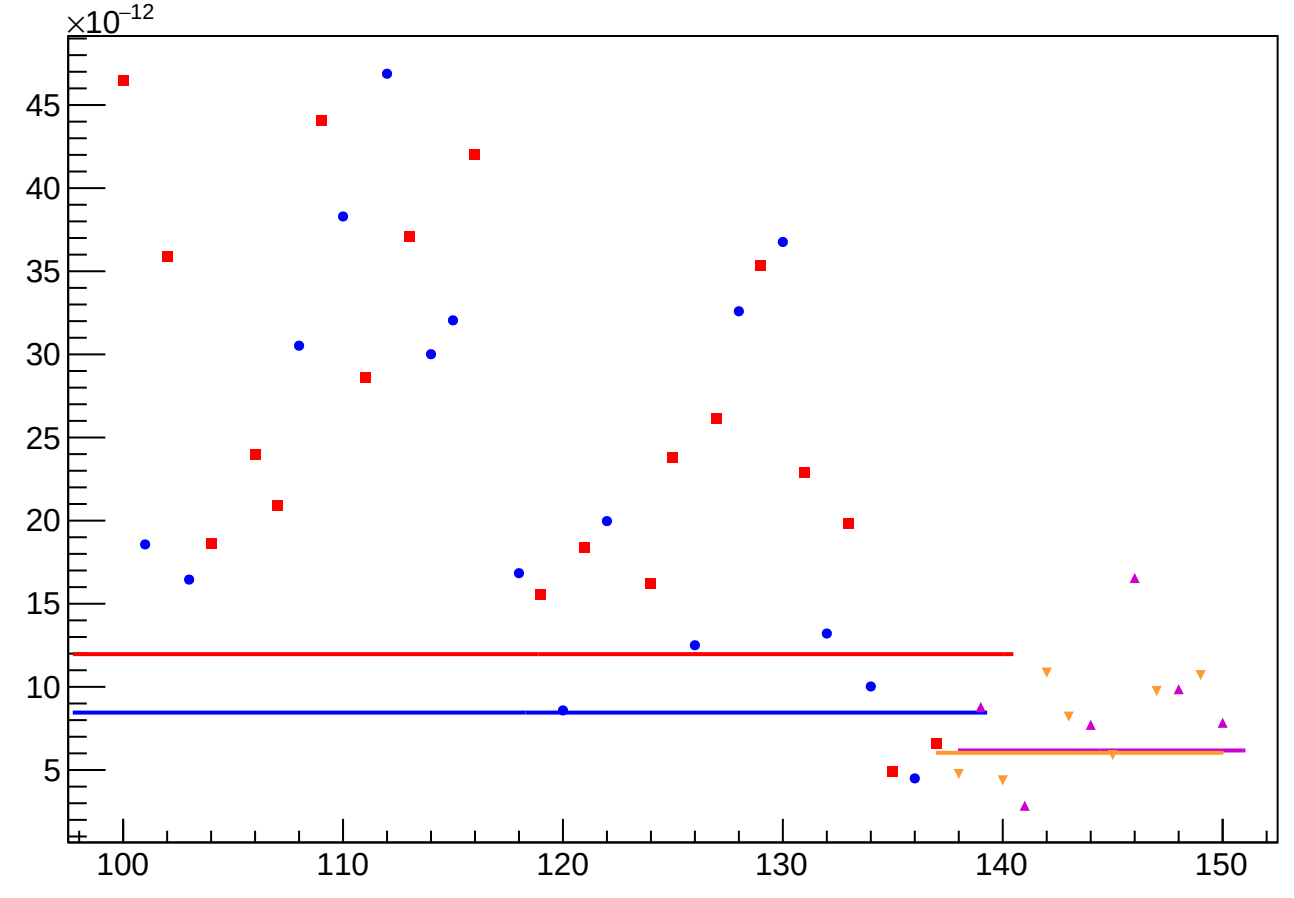
Left: 0.000+/-0.000 $\chi^2$/NDF: 13.5/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:24.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 49.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2756090.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:469060.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2760154.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1053784.2/5

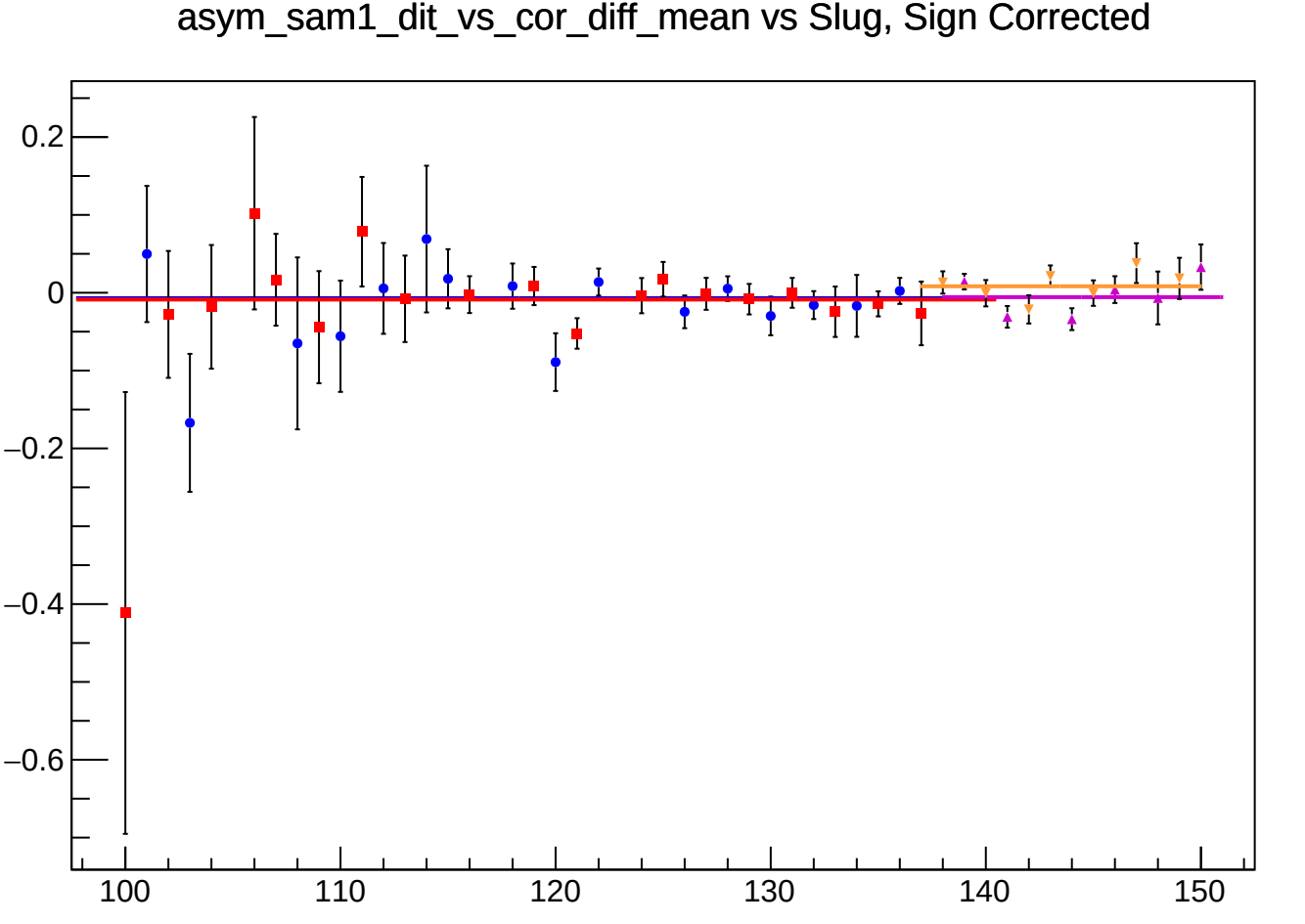
Left: 0.000+/-0.000 $\chi^2$/NDF: 1523808.2/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5753139.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3982162.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4052043.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8042472.1/47




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.008+/-0.007 $\chi^2$/NDF:5.8/6

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.006+/-0.006 $\chi^2$/NDF:13.4/5

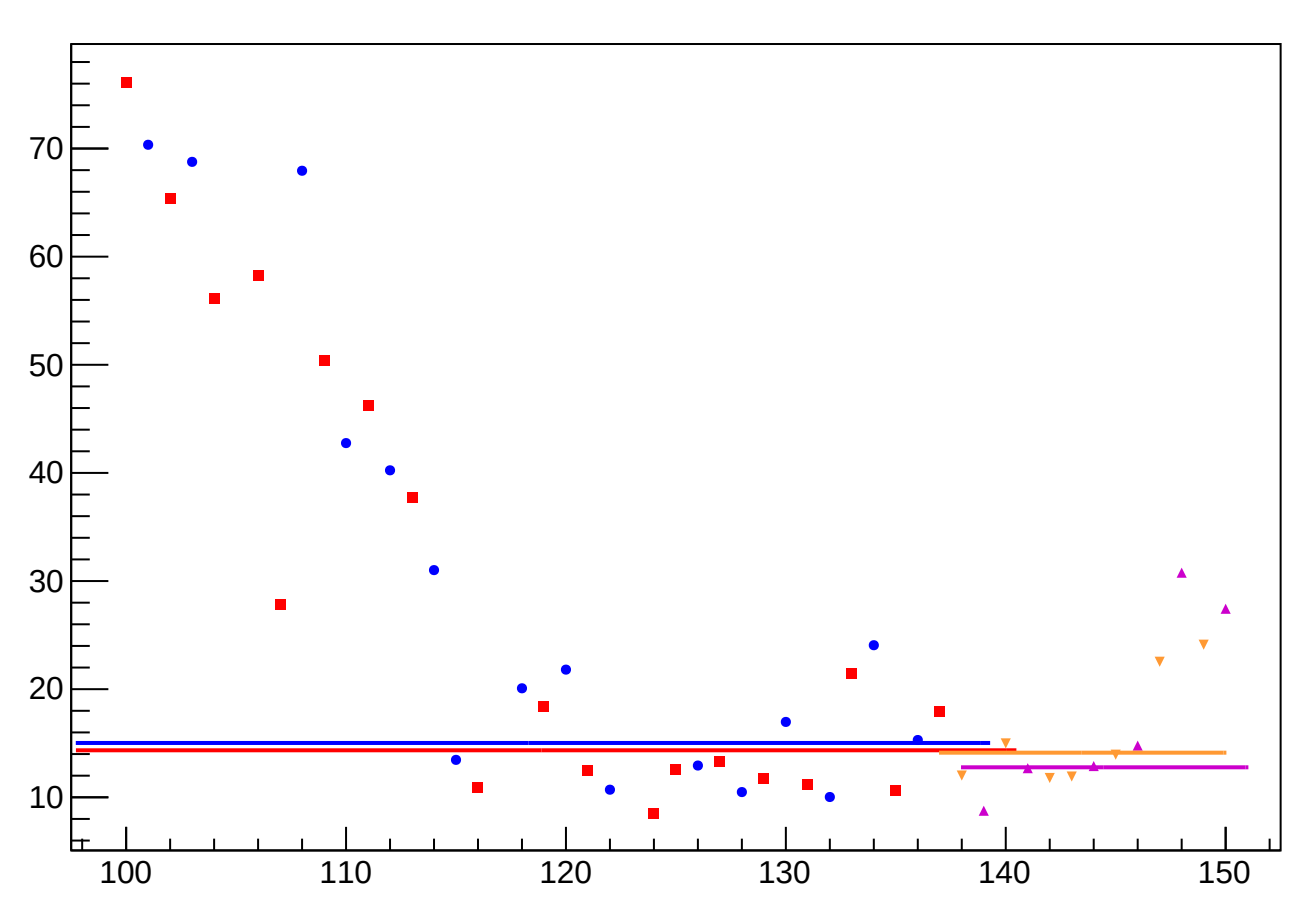
Left: 0.001+/-0.005 $\chi^2$/NDF: 21.6/12

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.006+/-0.005 $\chi^2$/NDF:28.3/21

Out: -0.000+/-0.005 $\chi^2$/NDF:21.9/25

All: -0.003+/-0.003 $\chi^2$/NDF: 51.1/47




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 14.128+/-0.005 $\chi^2$/NDF:635445.0/6

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 12.774+/-0.004 $\chi^2$/NDF:1416962.4/5

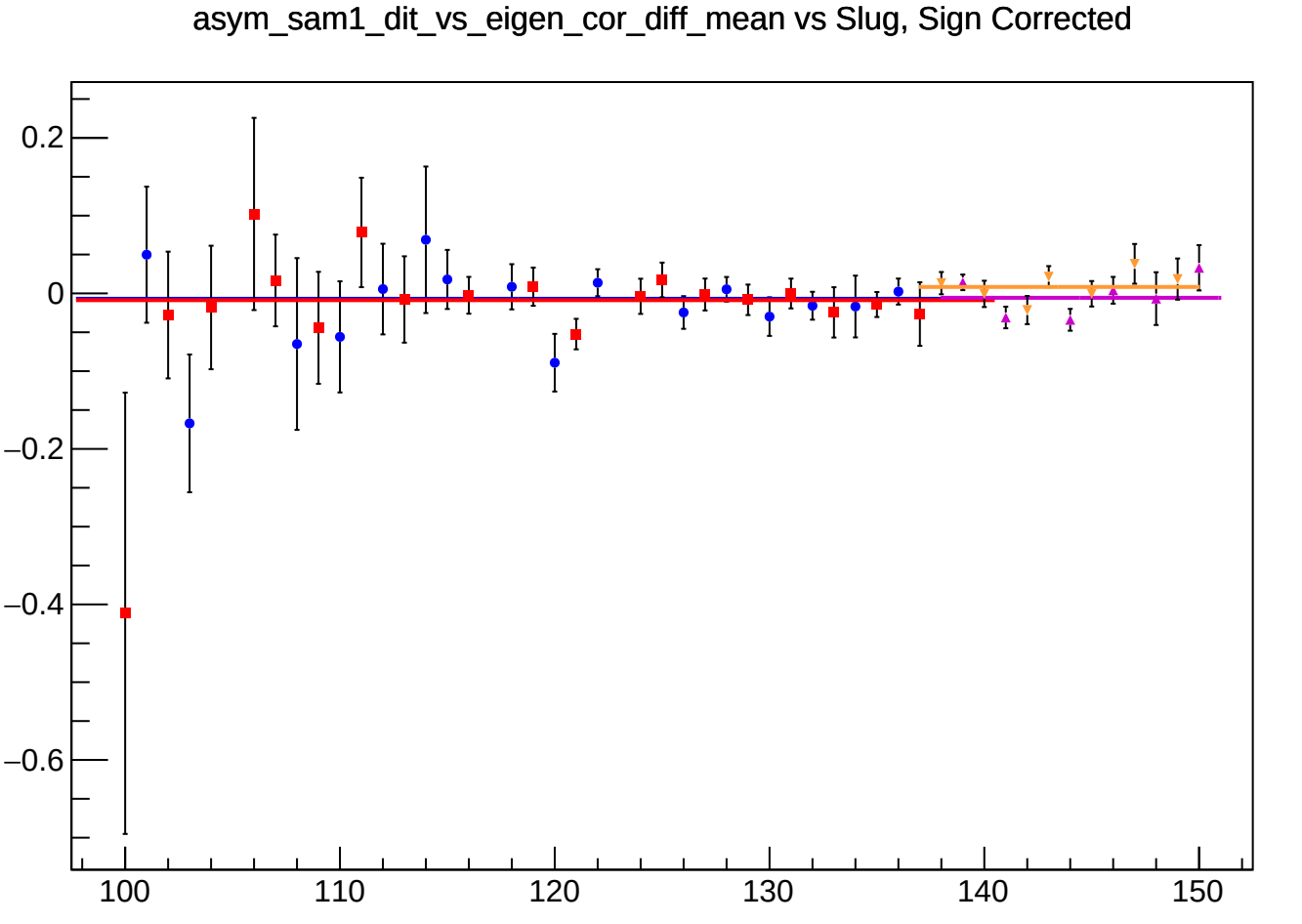
Left: 13.422+/-0.003 $\chi^2$/NDF: 2097290.4/12

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 13.817+/-0.003 $\chi^2$/NDF:4975313.4/21

Out: 14.240+/-0.003 $\chi^2$/NDF:4265627.6/25

All: 14.029+/-0.002 $\chi^2$/NDF: 9249522.7/47




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.008+/-0.007 $\chi^2$/NDF:5.8/6

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.006+/-0.006 $\chi^2$/NDF:13.4/5

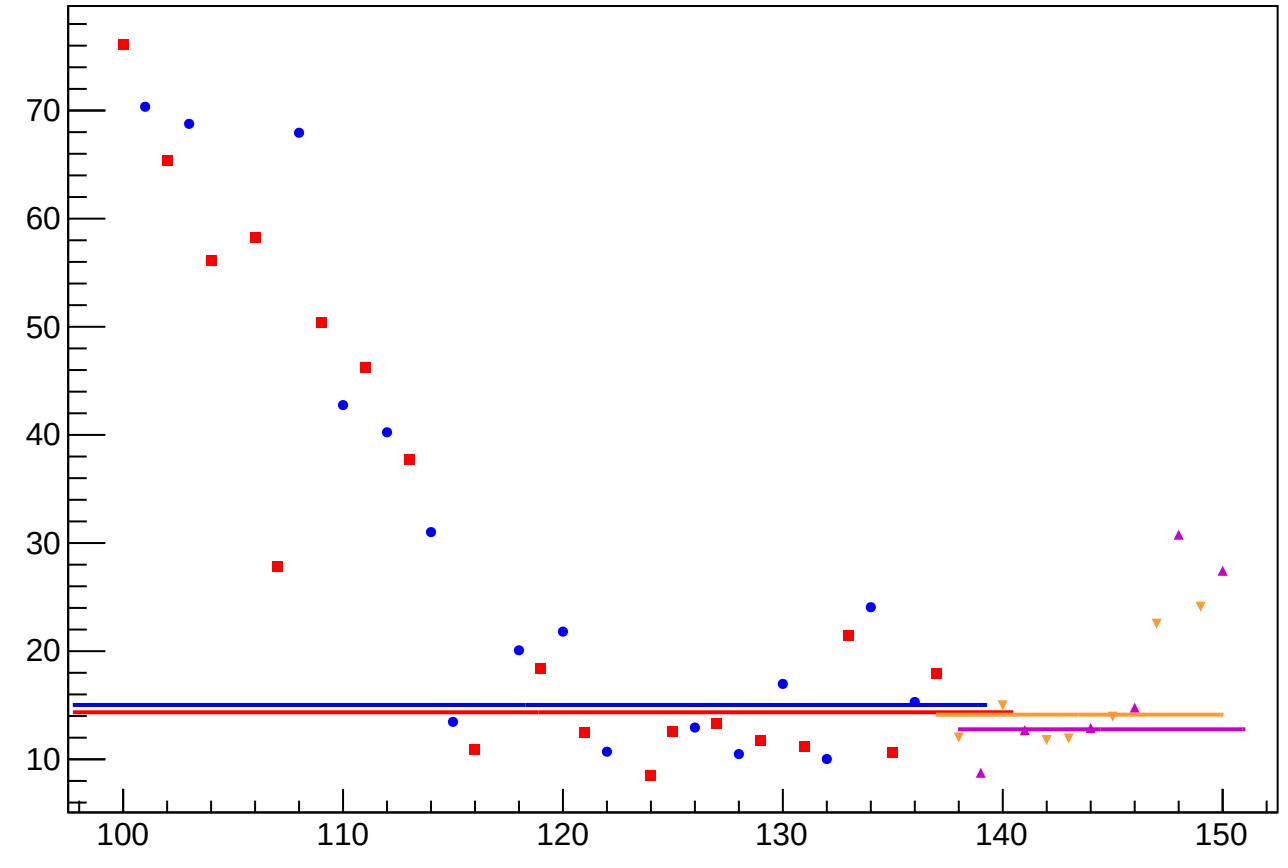
Left: 0.001+/-0.005 $\chi^2$/NDF: 21.6/12

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.006+/-0.005 $\chi^2$/NDF:28.3/21

Out: -0.000+/-0.005 $\chi^2$/NDF:21.9/25

All: -0.003+/-0.003 $\chi^2$/NDF: 51.1/47




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 14.128+/-0.005 $\chi^2$/NDF:635445.0/6

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 12.774+/-0.004 $\chi^2$/NDF:1416962.4/5

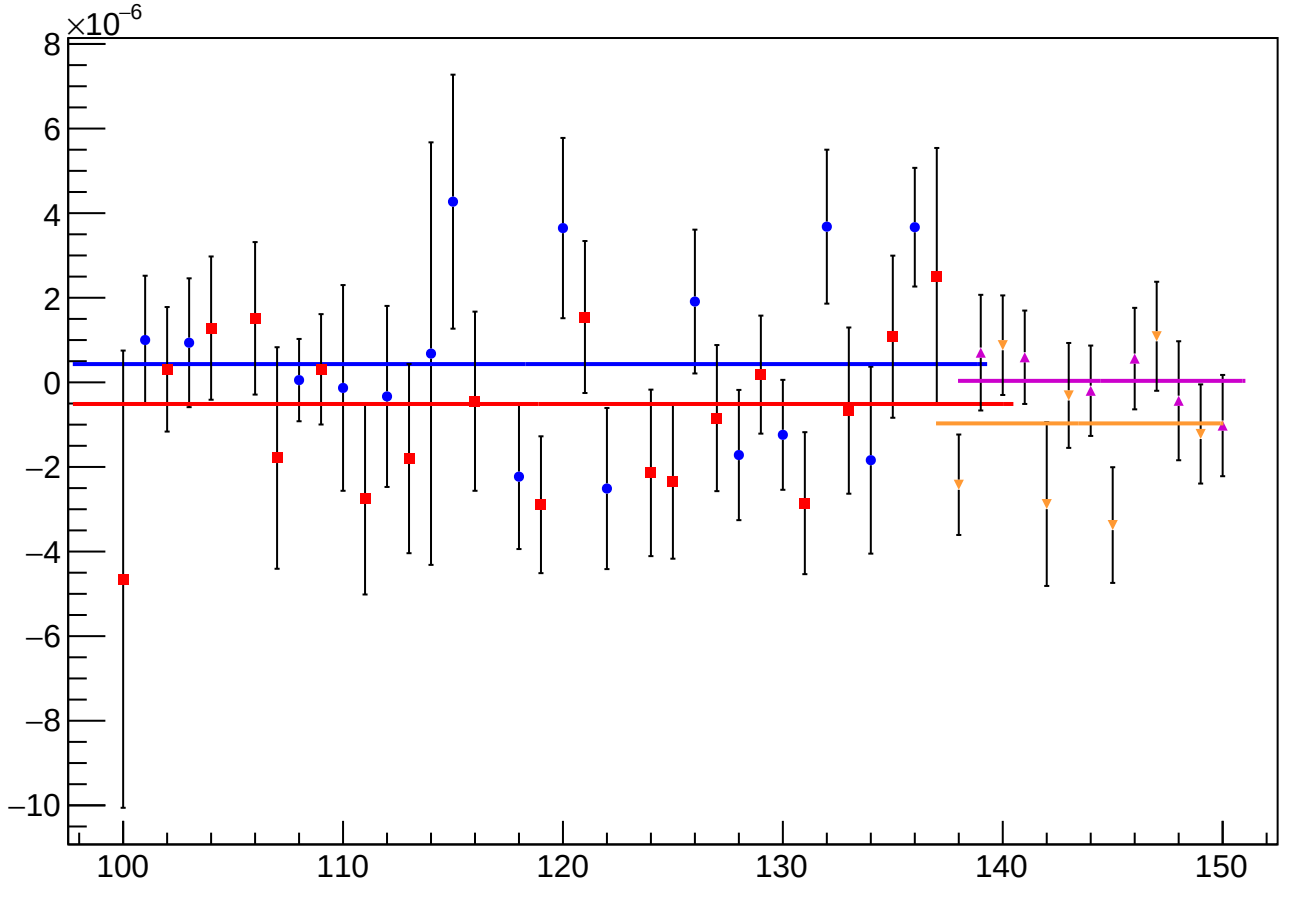
Left: 13.422+/-0.003 $\chi^2$/NDF: 2097290.4/12

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 13.817+/-0.003 $\chi^2$/NDF:4975313.4/21

Out: 14.240+/-0.003 $\chi^2$/NDF:4265627.6/25

All: 14.029+/-0.002 $\chi^2$/NDF: 9249522.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.6/5

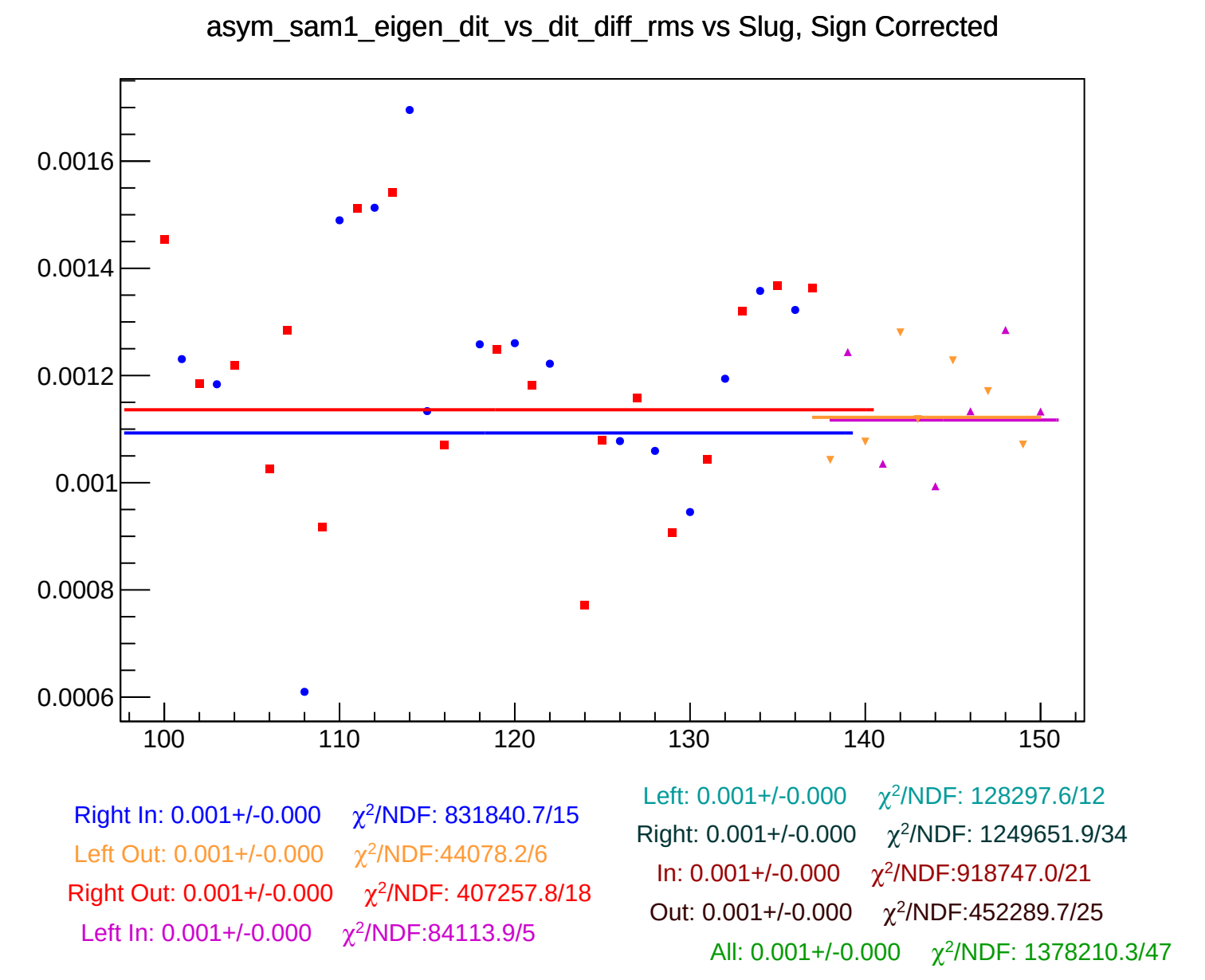
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.6/12

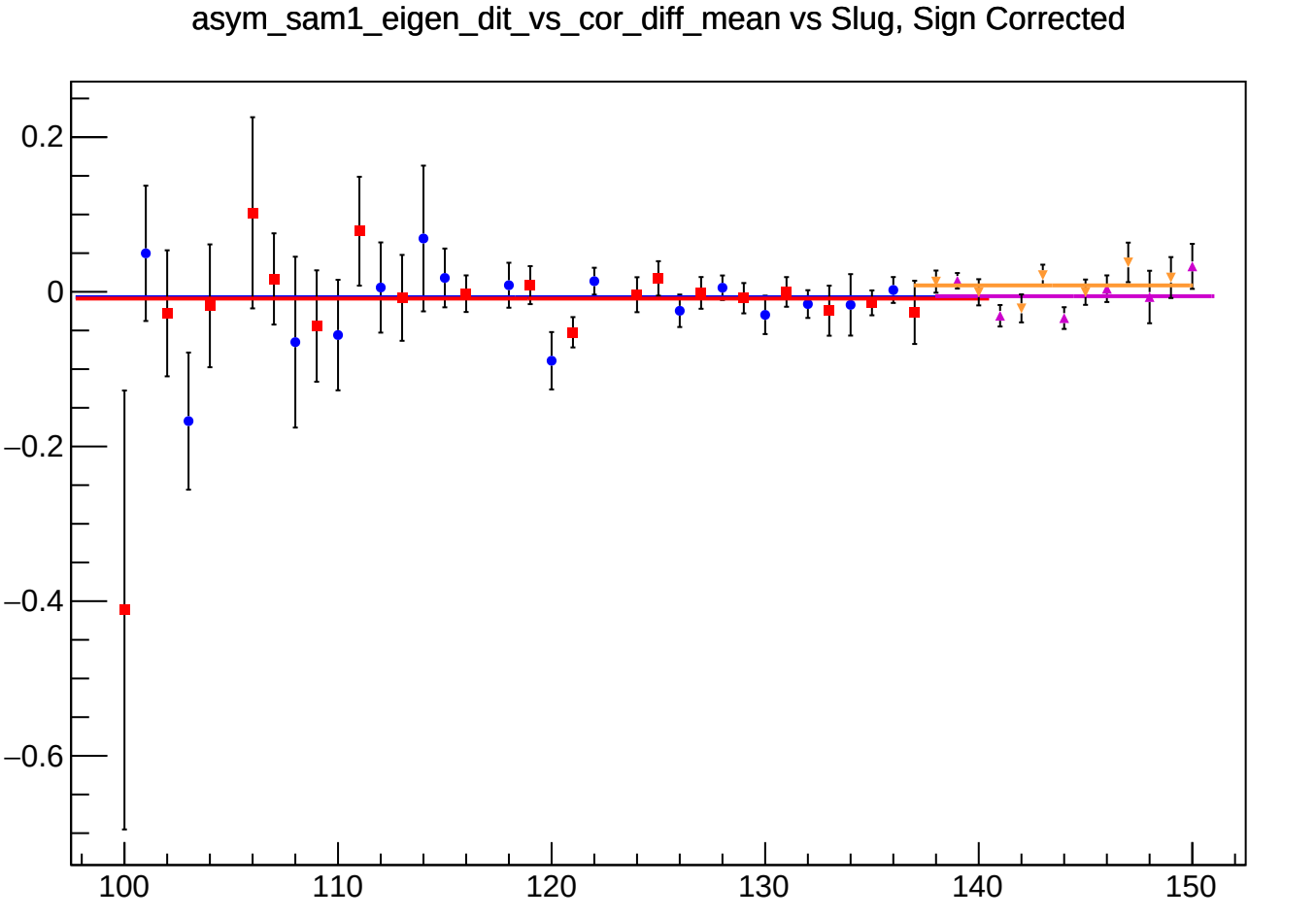
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:25.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 55.6/47


asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
100
110
120
130
140
150
Right In: 0.001+/-0.000 χ²/NDF: 831840.7/15
Left Out: 0.001+/-0.000 χ²/NDF:44078.2/6
Right Out: 0.001+/-0.000 χ²/NDF: 407257.8/18
Left In: 0.001+/-0.000 χ²/NDF:84113.9/5
Left: 0.001+/-0.000 χ²/NDF: 128297.6/12
Right: 0.001+/-0.000 χ²/NDF: 1249651.9/34
In: 0.001+/-0.000 χ²/NDF:918747.0/21
Out: 0.001+/-0.000 χ²/NDF:452289.7/25
All: 0.001+/-0.000 χ²/NDF: 1378210.3/47




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.008+/-0.007 $\chi^2$/NDF:5.8/6

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.006+/-0.006 $\chi^2$/NDF:13.4/5

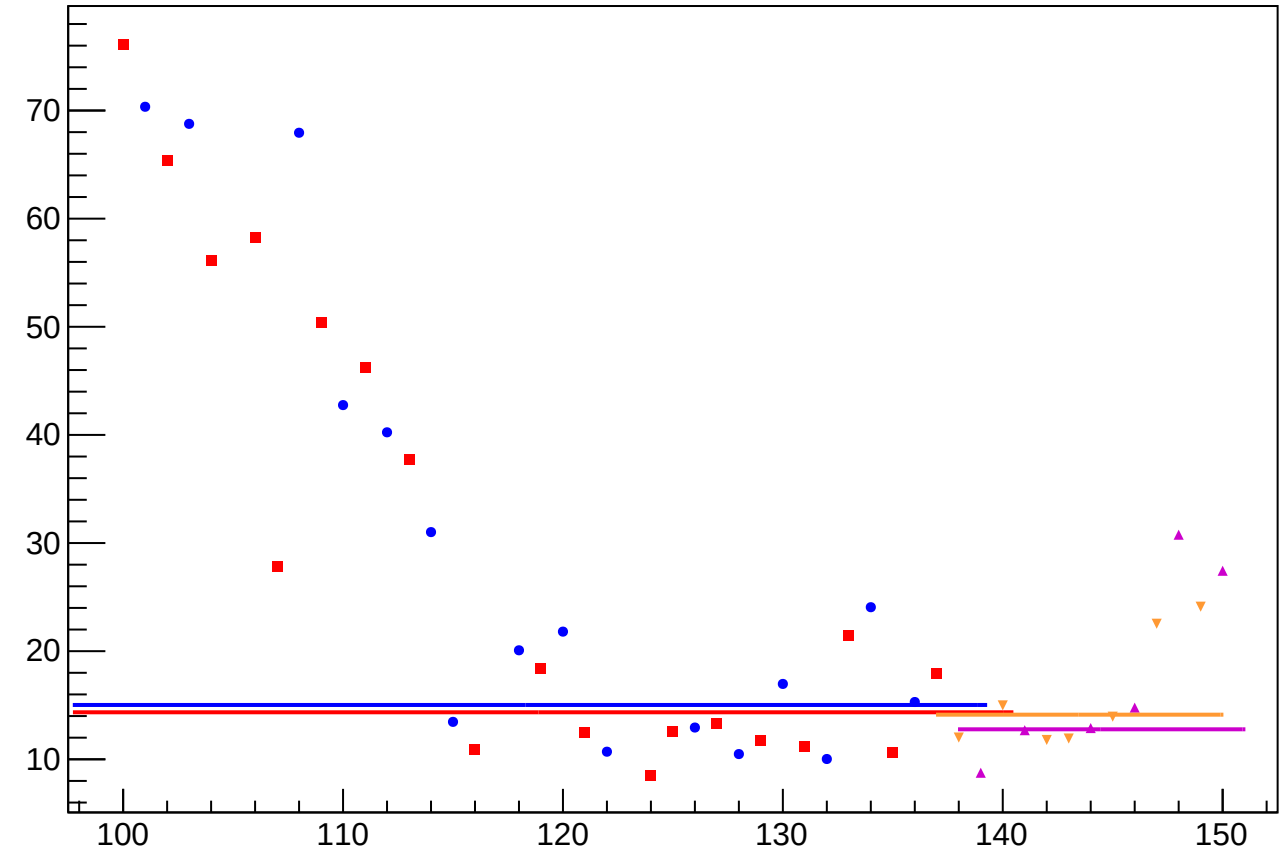
Left: 0.001+/-0.005 $\chi^2$/NDF: 21.6/12

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.006+/-0.005 $\chi^2$/NDF:28.3/21

Out: -0.000+/-0.005 $\chi^2$/NDF:21.9/25

All: -0.003+/-0.003 $\chi^2$/NDF: 51.1/47




Right In: 15.025+/-0.005 $\chi^2$/NDF: 3438279.3/15

Left Out: 14.128+/-0.005 $\chi^2$/NDF:635435.6/6

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629004.9/18

Left In: 12.774+/-0.004 $\chi^2$/NDF:1416974.7/5

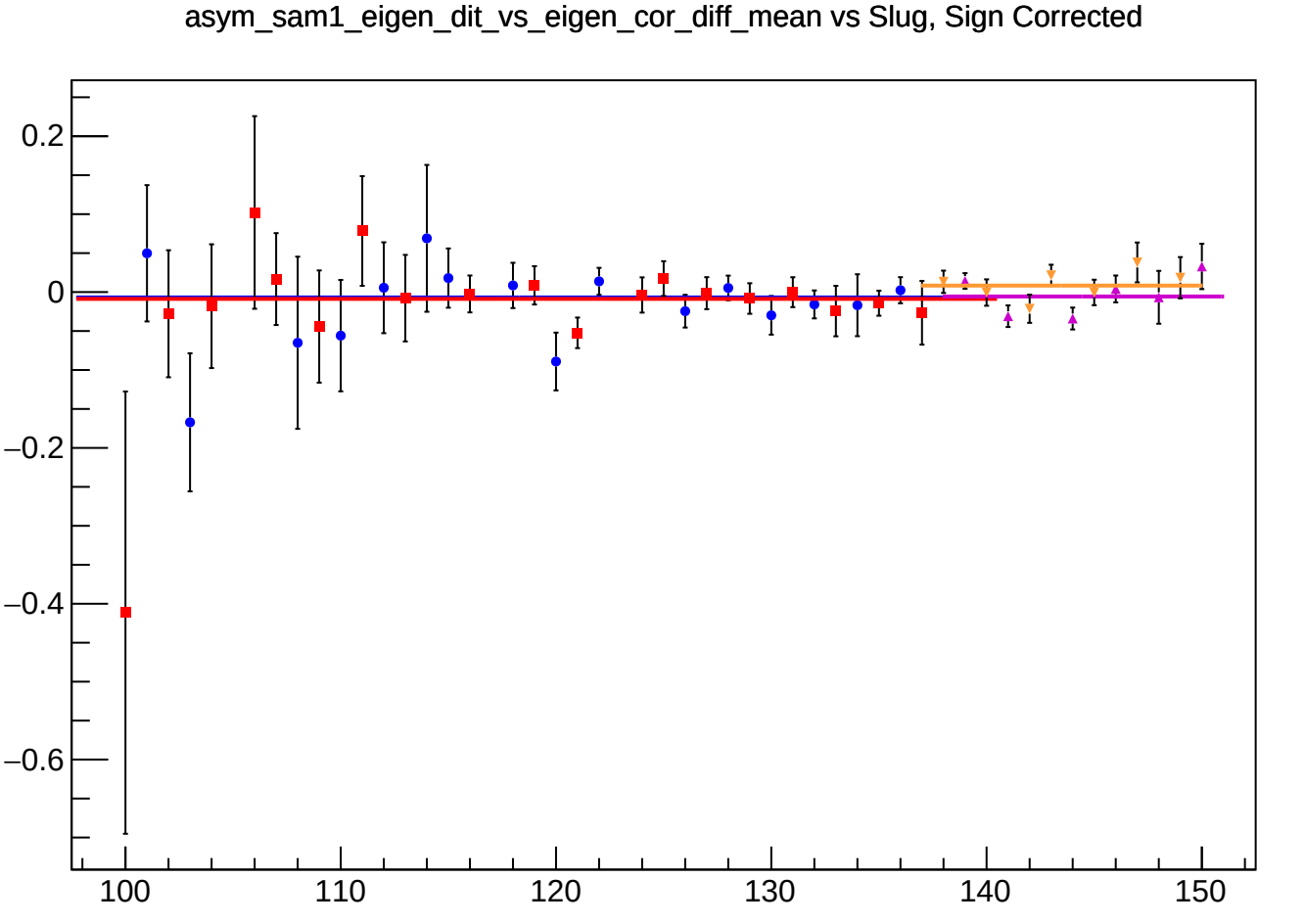
Left: 13.422+/-0.003 $\chi^2$/NDF: 2097298.2/12

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077938.8/34

In: 13.817+/-0.003 $\chi^2$/NDF:4975328.7/21

Out: 14.240+/-0.003 $\chi^2$/NDF:4265606.7/25

All: 14.029+/-0.002 $\chi^2$/NDF: 9249519.9/47




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.008+/-0.007 $\chi^2$/NDF:5.8/6

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.006+/-0.006 $\chi^2$/NDF:13.4/5

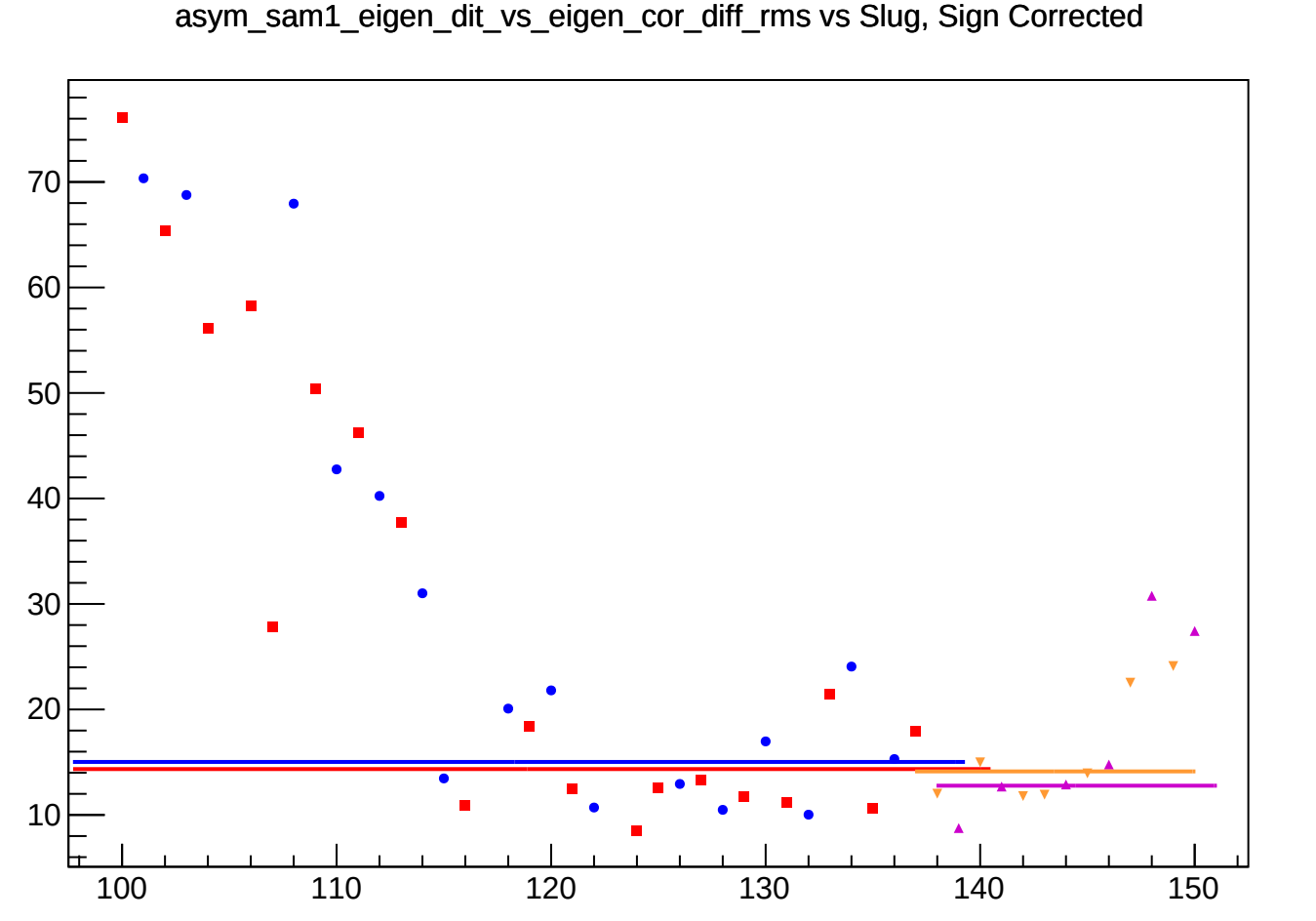
Left: 0.001+/-0.005 $\chi^2$/NDF: 21.6/12

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.006+/-0.005 $\chi^2$/NDF:28.3/21

Out: -0.000+/-0.005 $\chi^2$/NDF:21.9/25

All: -0.003+/-0.003 $\chi^2$/NDF: 51.1/47




Right In: 15.025+/-0.005 $\chi^2$/NDF: 3438279.3/15

Left Out: 14.128+/-0.005 $\chi^2$/NDF:635435.6/6

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629004.9/18

Left In: 12.774+/-0.004 $\chi^2$/NDF:1416974.7/5

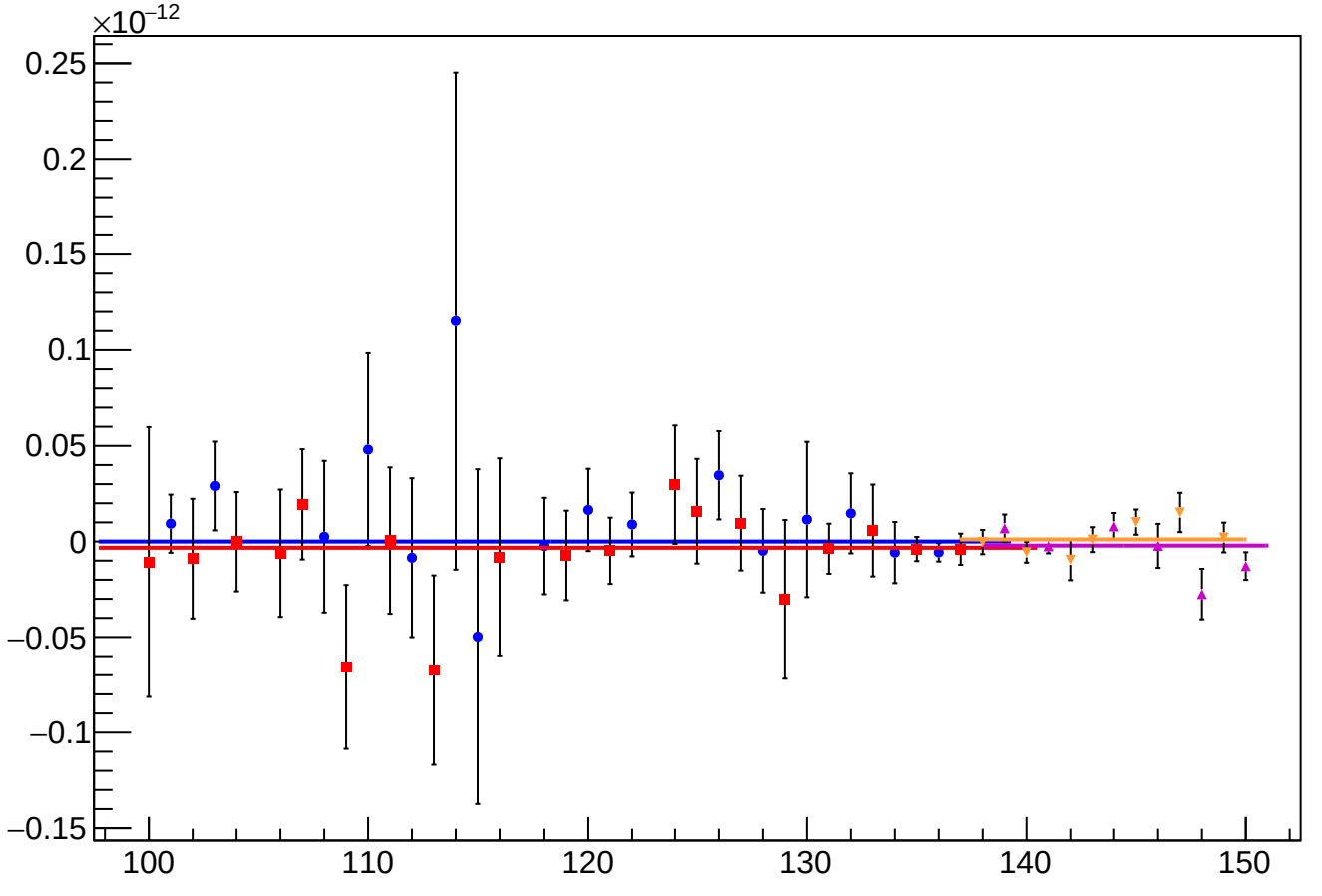
Left: 13.422+/-0.003 $\chi^2$/NDF: 2097298.2/12

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077938.8/34

In: 13.817+/-0.003 $\chi^2$/NDF:4975328.7/21

Out: 14.240+/-0.003 $\chi^2$/NDF:4265606.7/25

All: 14.029+/-0.002 $\chi^2$/NDF: 9249519.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 7.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:9.5/5

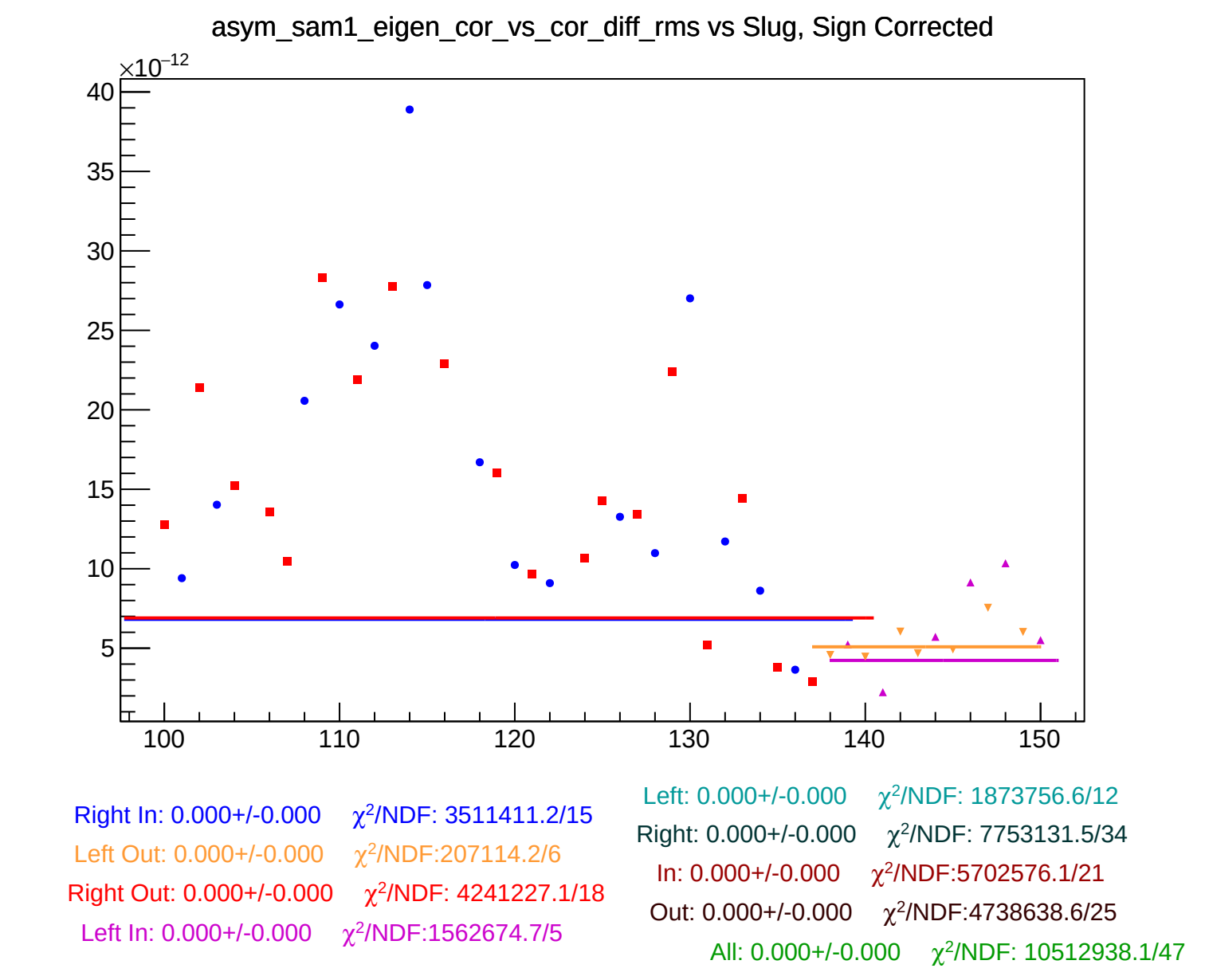
Left: -0.000+/-0.000 $\chi^2$/NDF: 16.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 16.7/34

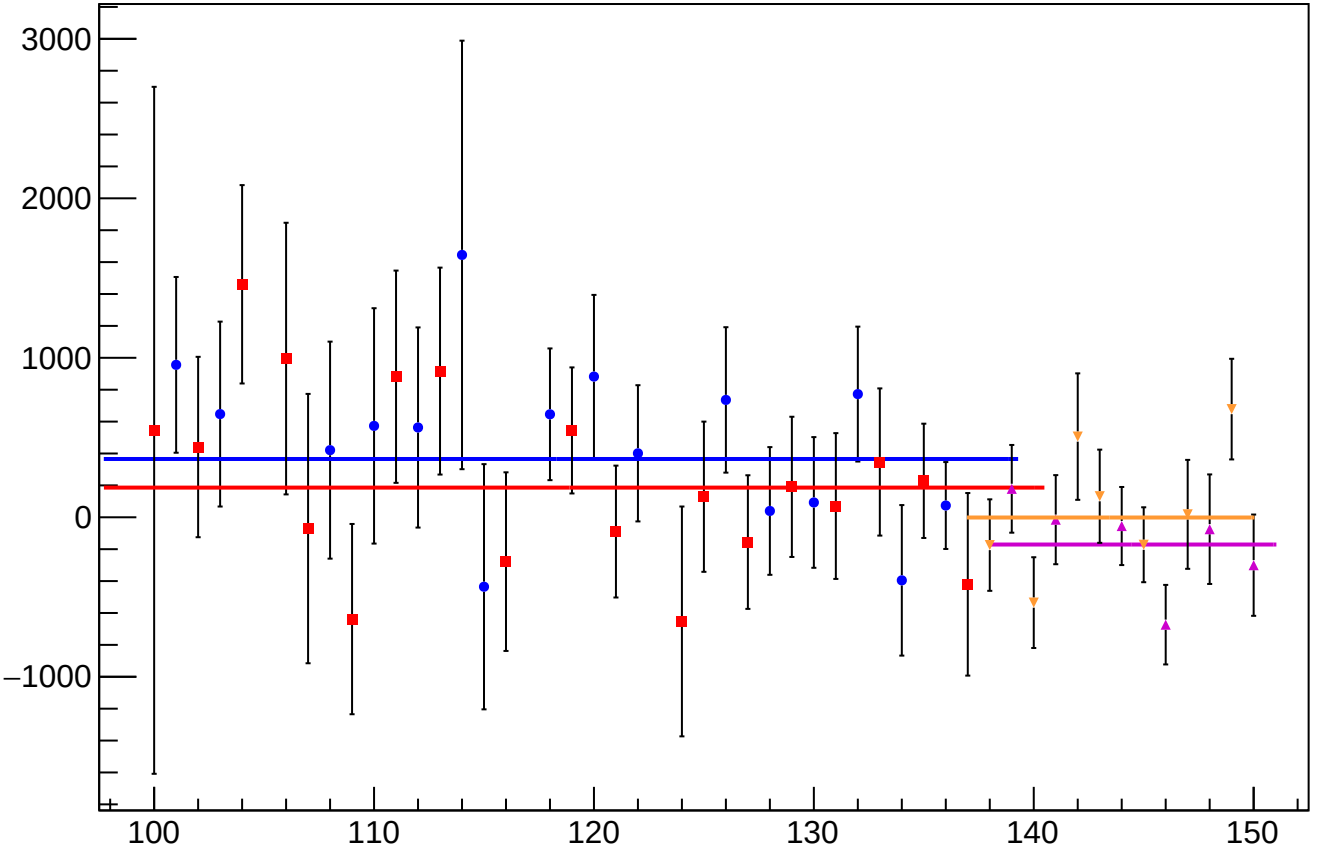
In: -0.000+/-0.000 $\chi^2$/NDF:19.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:14.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 33.4/47


asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
40
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3511411.2/15
Left Out: 0.000+/-0.000 χ²/NDF:207114.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 4241227.1/18
Left In: 0.000+/-0.000 χ²/NDF:1562674.7/5
Left: 0.000+/-0.000 χ²/NDF: 1873756.6/12
Right: 0.000+/-0.000 χ²/NDF: 7753131.5/34
In: 0.000+/-0.000 χ²/NDF:5702576.1/21
Out: 0.000+/-0.000 χ²/NDF:4738638.6/25
All: 0.000+/-0.000 χ²/NDF: 10512938.1/47

# reg_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.540+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -1.376+/-112.281 $\chi^2$/NDF:10.9/6

Right Out: 186.141+/-120.188 $\chi^2$/NDF: 15.0/18

Left In: -170.789+/-113.818 $\chi^2$/NDF:6.5/5

Left: -84.931+/-79.933 $\chi^2$/NDF: 18.5/12

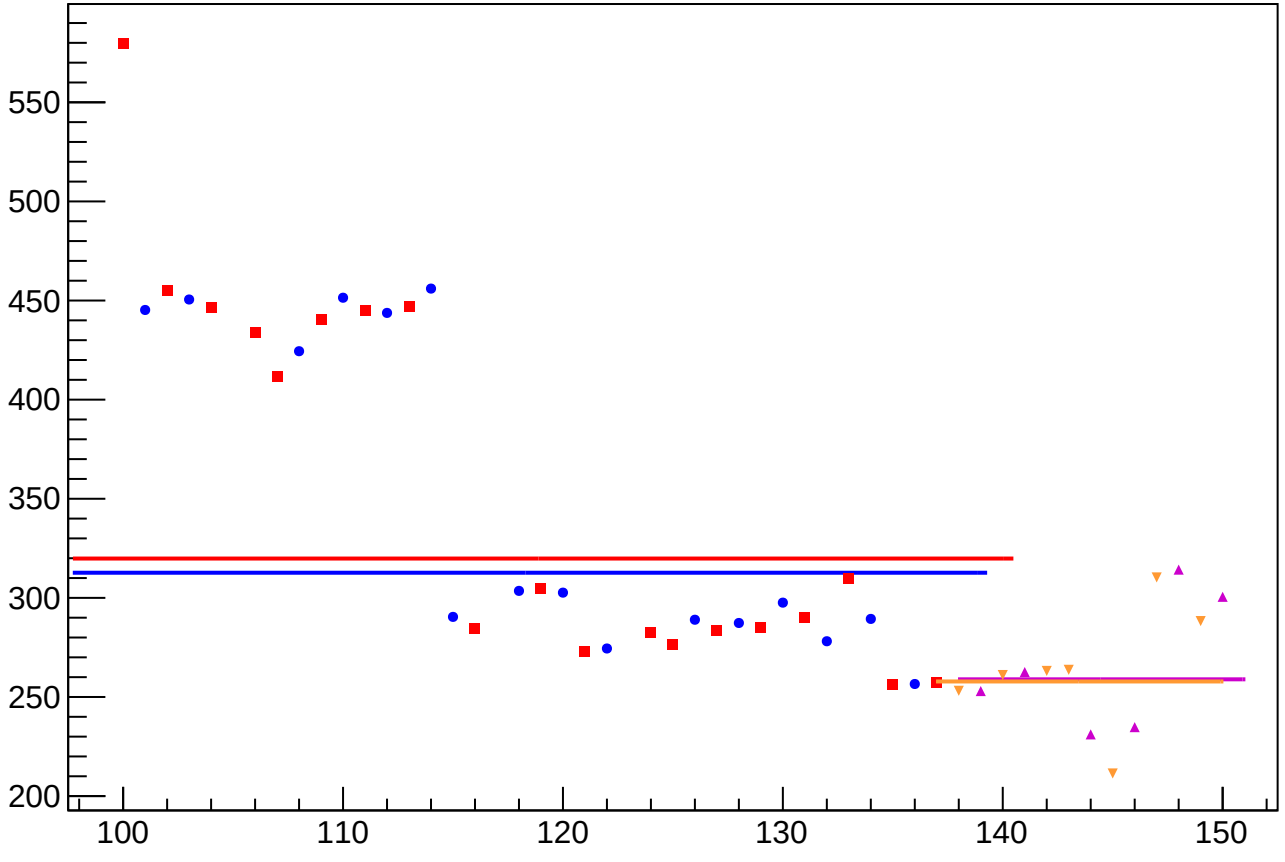
Right: 276.827+/-84.517 $\chi^2$/NDF: 27.6/34

In: 85.730+/-82.210 $\chi^2$/NDF:28.6/21

Out: 86.012+/-82.048 $\chi^2$/NDF:27.2/25

All: 85.872+/-58.074 $\chi^2$/NDF: 55.8/47

# reg_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602207.7/15

Left Out: 257.830+/-0.079 $\chi^2$/NDF:145918.5/6

Right Out: 319.841+/-0.085 $\chi^2$/NDF: 697878.1/18

Left In: 258.908+/-0.080 $\chi^2$/NDF:132027.1/5

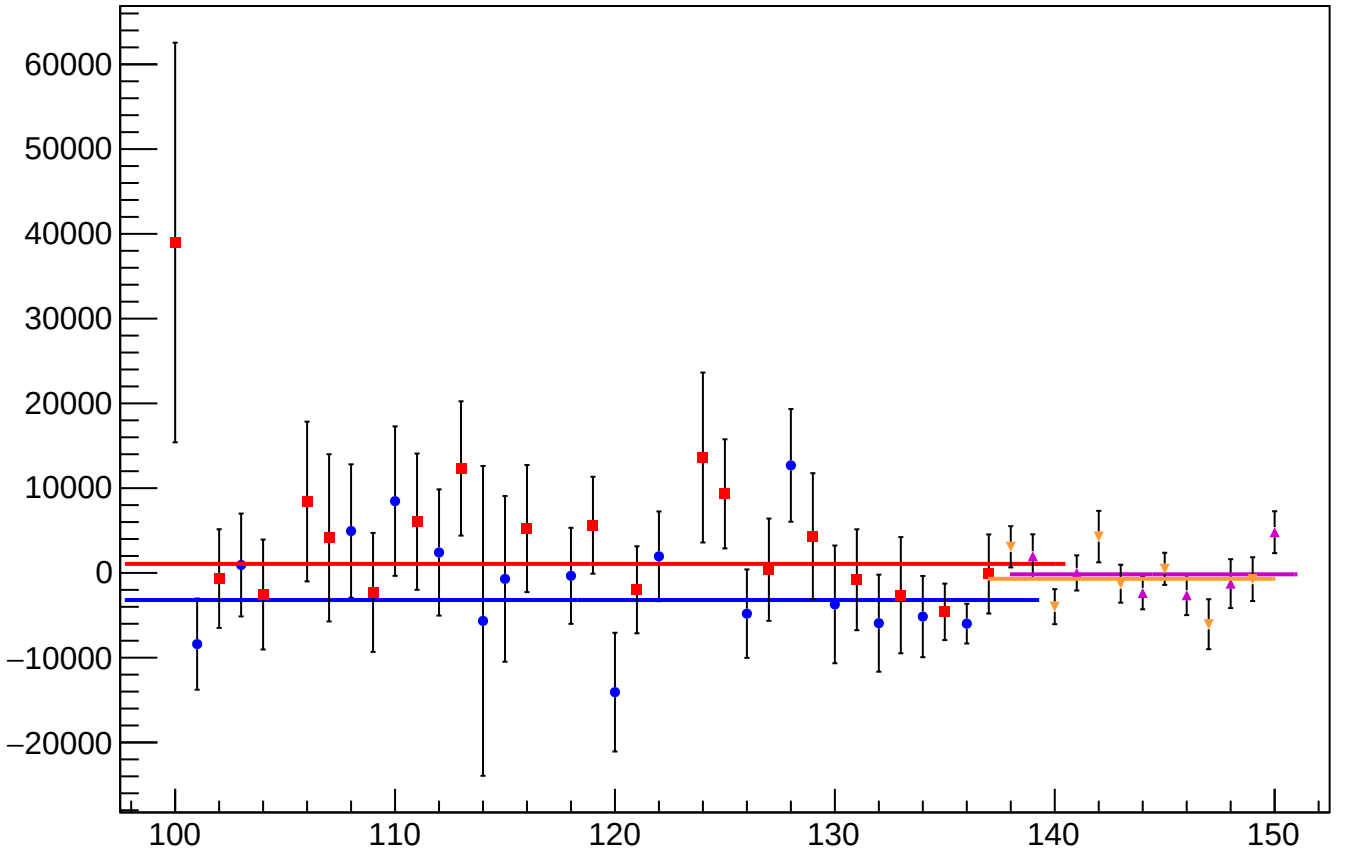
Left: 258.362+/-0.057 $\chi^2$/NDF: 278036.4/12

Right: 316.222+/-0.060 $\chi^2$/NDF: 1303671.7/34

In: 284.628+/-0.058 $\chi^2$/NDF:947762.3/21

Out: 286.729+/-0.058 $\chi^2$/NDF:1128083.1/25

All: 285.680+/-0.041 $\chi^2$/NDF: 2076499.9/47




Right In: -3198.742+/-1353.814 $\chi^2$/NDF: 16.1/15

Left Out: -694.105+/-892.566 $\chi^2$/NDF:11.4/6

Right Out: 1065.939+/-1443.326 $\chi^2$/NDF: 14.4/18

Left In: -164.119+/-946.602 $\chi^2$/NDF:7.3/5

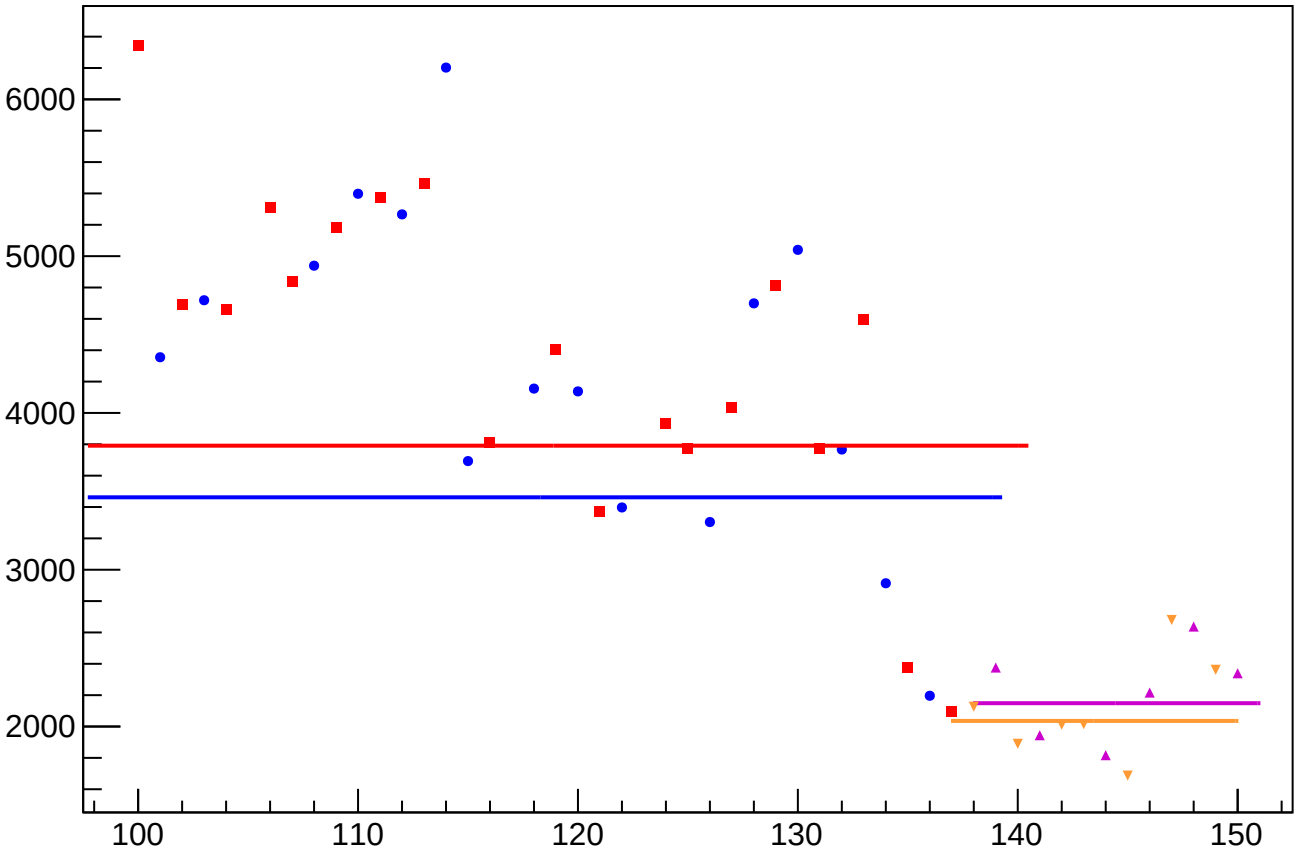
Left: -444.670+/-649.403 $\chi^2$/NDF: 18.8/12

Right: -1202.738+/-987.420 $\chi^2$/NDF: 35.1/34

In: -1160.573+/-775.774 $\chi^2$/NDF:26.7/21

Out: -207.213+/-759.135 $\chi^2$/NDF:26.9/25

All: -673.560+/-542.576 $\chi^2$/NDF: 54.4/47




Right In: 3461.927+/-0.957 $\chi^2$/NDF: 1309580.1/15

Left Out: 2035.790+/-0.631 $\chi^2$/NDF:208132.1/6

Right Out: 3791.207+/-1.021 $\chi^2$/NDF: 1155755.9/18

Left In: 2148.779+/-0.669 $\chi^2$/NDF:164998.5/5

Left: 2088.968+/-0.459 $\chi^2$/NDF: 388214.8/12

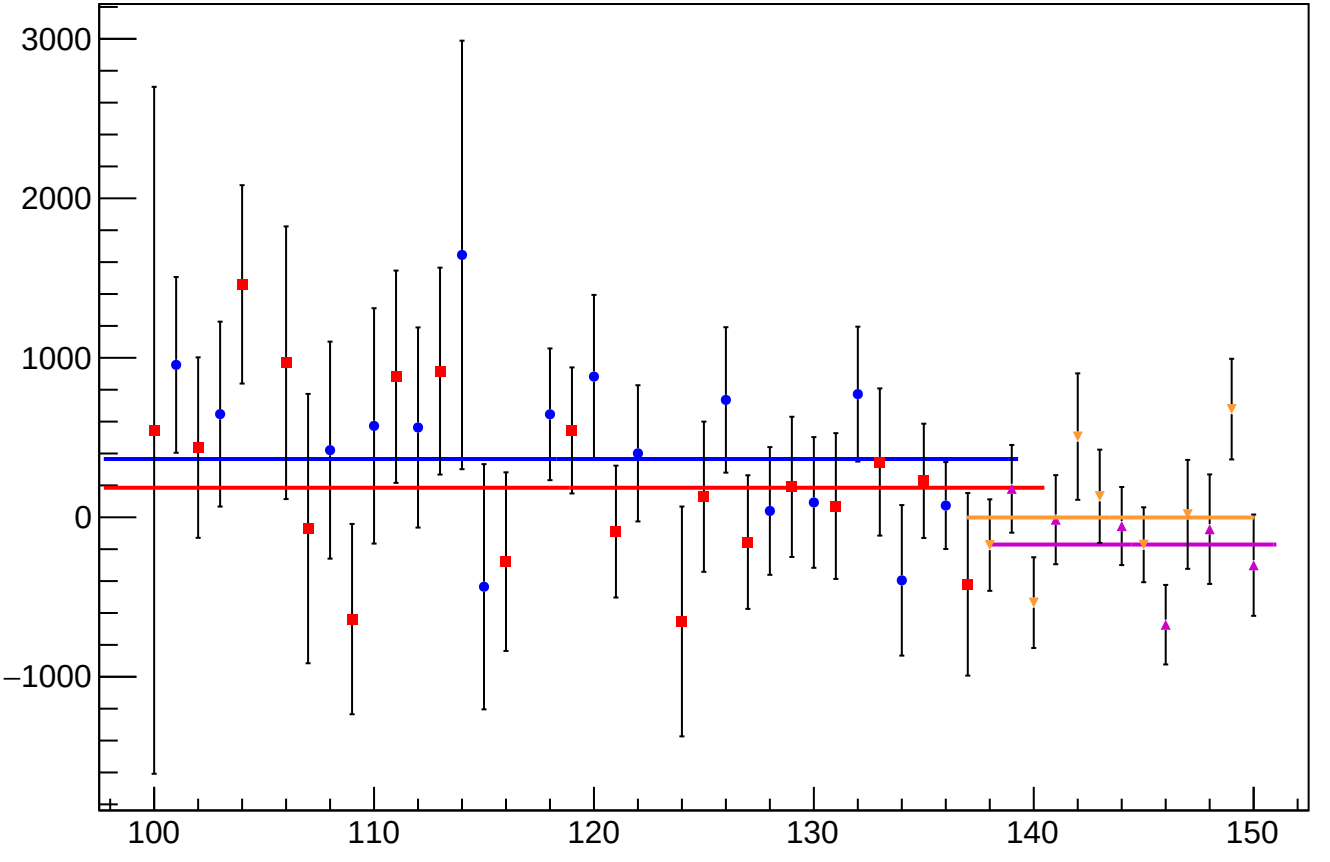
Right: 3616.041+/-0.698 $\chi^2$/NDF: 2520711.5/34

In: 2579.967+/-0.549 $\chi^2$/NDF:2738368.9/21

Out: 2521.402+/-0.537 $\chi^2$/NDF:3503913.1/25

All: 2550.049+/-0.384 $\chi^2$/NDF: 6248104.7/47

# cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -1.374+/-112.281 $\chi^2$/NDF:10.9/6

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: -170.786+/-113.818 $\chi^2$/NDF:6.5/5

Left: -84.928+/-79.933 $\chi^2$/NDF: 18.5/12

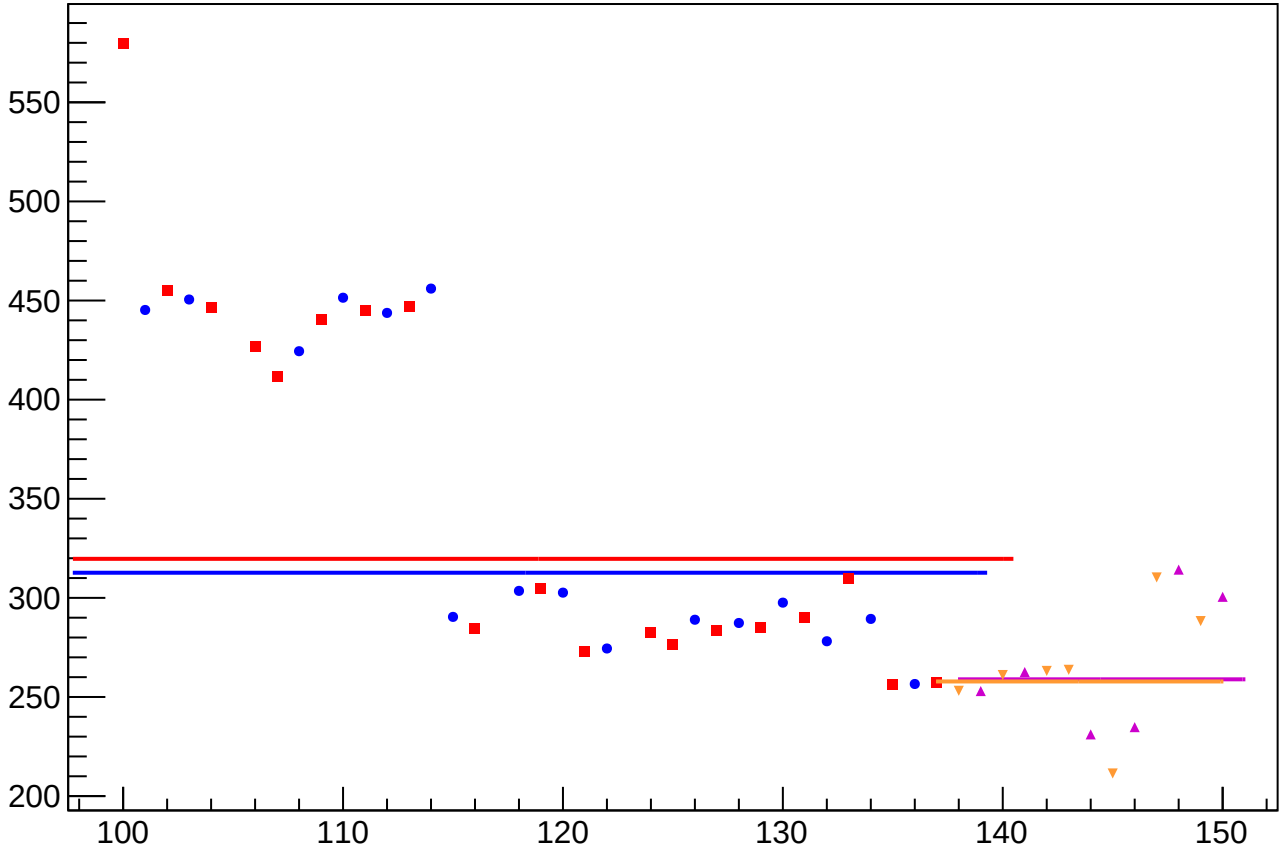
Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: 85.724+/-82.211 $\chi^2$/NDF:28.6/21

Out: 85.627+/-82.051 $\chi^2$/NDF:27.1/25

All: 85.676+/-58.075 $\chi^2$/NDF: 55.7/47

# cor_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 257.830+/-0.079 $\chi^2$/NDF:145918.5/6

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 258.908+/-0.080 $\chi^2$/NDF:132027.1/5

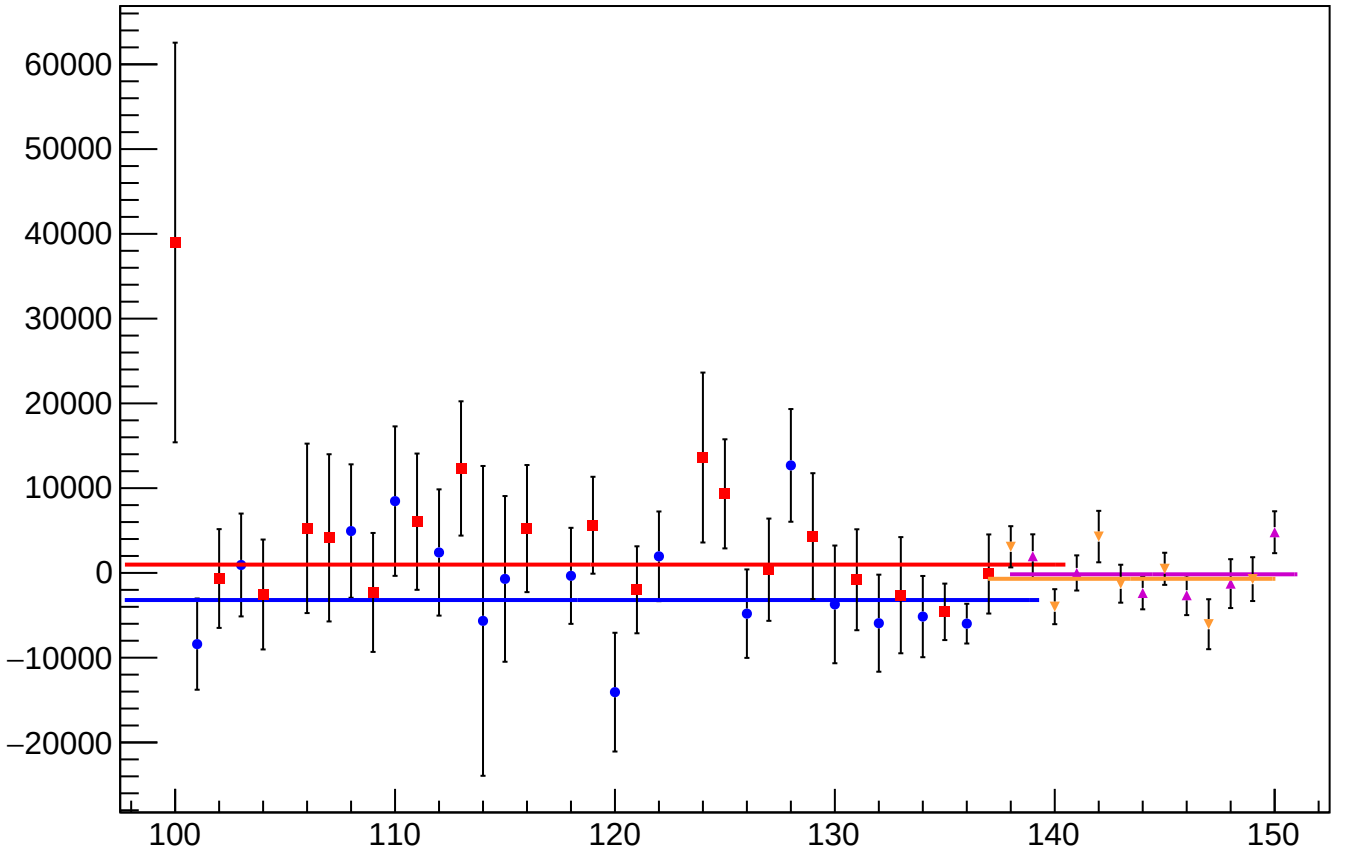
Left: 258.362+/-0.057 $\chi^2$/NDF: 278036.4/12

Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 284.628+/-0.058 $\chi^2$/NDF:947763.9/21

Out: 286.657+/-0.058 $\chi^2$/NDF:1122534.5/25

All: 285.644+/-0.041 $\chi^2$/NDF: 2070908.9/47




Right In: -3198.673+/-1353.816 $\chi^2$/NDF: 16.1/15

Left Out: -694.099+/-892.566 $\chi^2$/NDF:11.4/6

Right Out: 980.937+/-1445.265 $\chi^2$/NDF: 14.0/18

Left In: -164.103+/-946.602 $\chi^2$/NDF:7.3/5

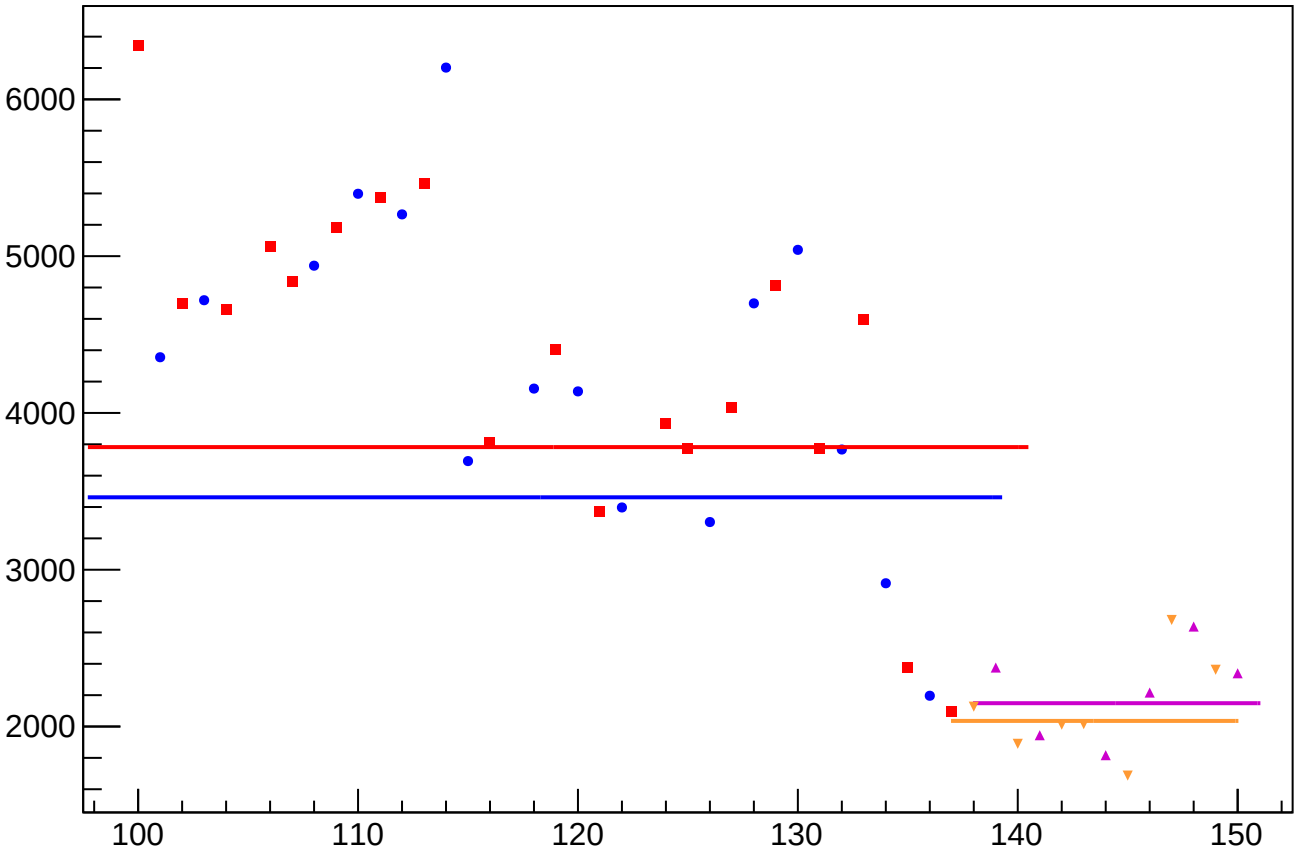
Left: -444.659+/-649.403 $\chi^2$/NDF: 18.8/12

Right: -1245.274+/-988.041 $\chi^2$/NDF: 34.5/34

In: -1160.537+/-775.774 $\chi^2$/NDF:26.7/21

Out: -231.623+/-759.416 $\chi^2$/NDF:26.3/25

All: -686.183+/-542.679 $\chi^2$/NDF: 53.8/47




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 2035.789+/-0.631 $\chi^2$/NDF:208132.8/6

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 2148.780+/-0.669 $\chi^2$/NDF:164999.0/5

Left: 2088.968+/-0.459 $\chi^2$/NDF: 388216.4/12

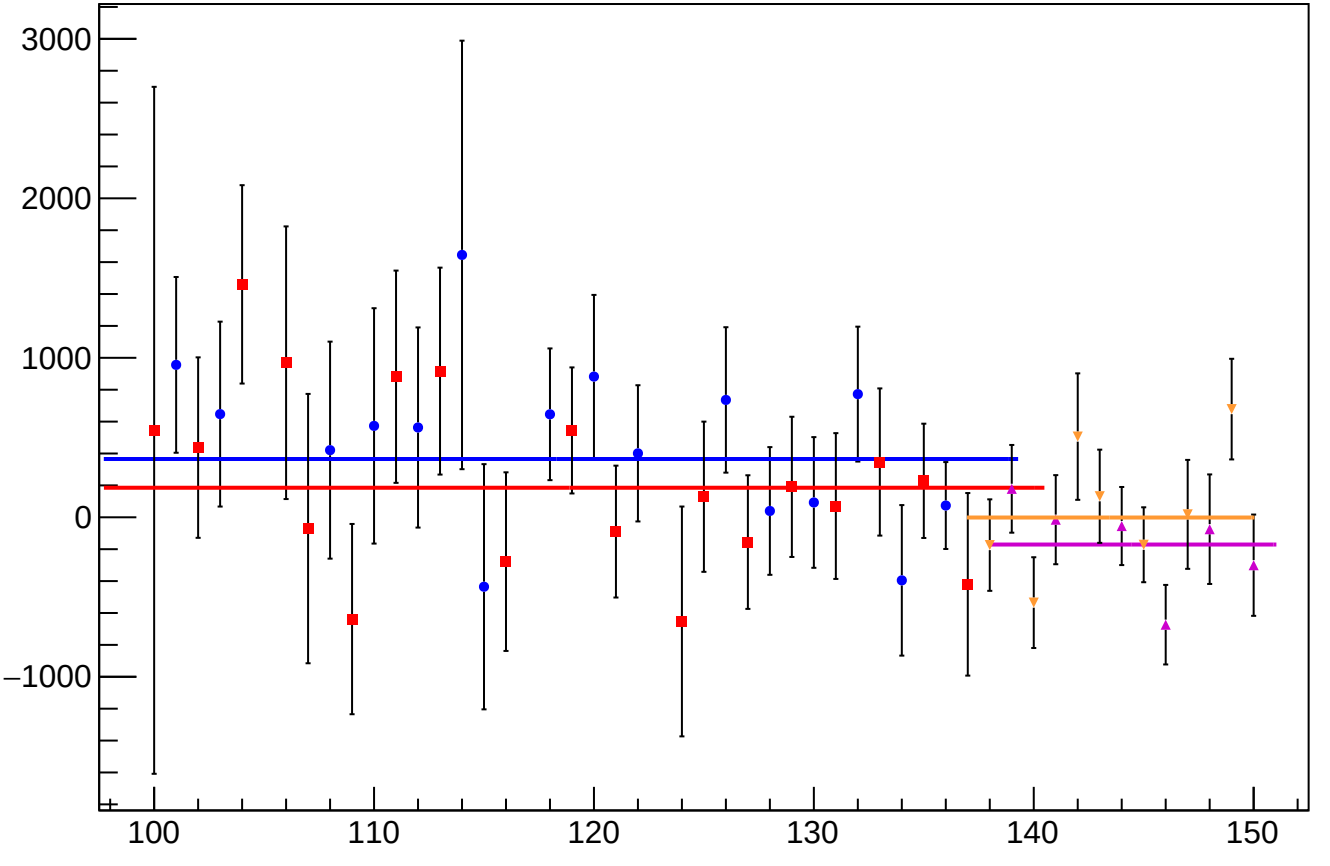
Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2579.968+/-0.549 $\chi^2$/NDF:2738388.9/21

Out: 2517.965+/-0.537 $\chi^2$/NDF:3458429.1/25

All: 2548.306+/-0.384 $\chi^2$/NDF: 6203342.0/47

# eigen_cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -1.374+/-112.281 $\chi^2$/NDF:10.9/6

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: -170.786+/-113.818 $\chi^2$/NDF:6.5/5

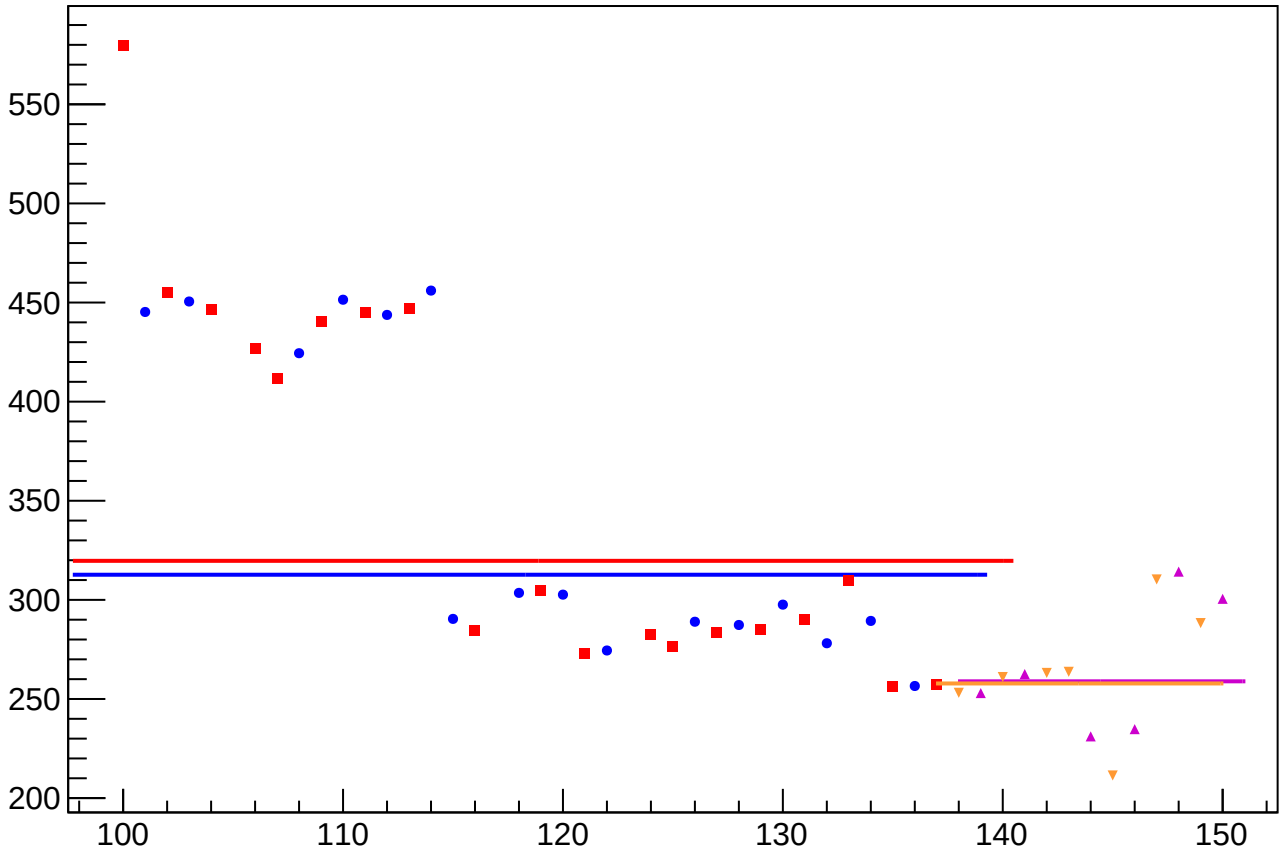
Left: -84.928+/-79.933 $\chi^2$/NDF: 18.5/12

Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: 85.724+/-82.211 $\chi^2$/NDF:28.6/21

Out: 85.627+/-82.051 $\chi^2$/NDF:27.1/25

All: 85.676+/-58.075 $\chi^2$/NDF: 55.7/47




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 257.830+/-0.079 $\chi^2$/NDF:145918.5/6

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 258.908+/-0.080 $\chi^2$/NDF:132027.1/5

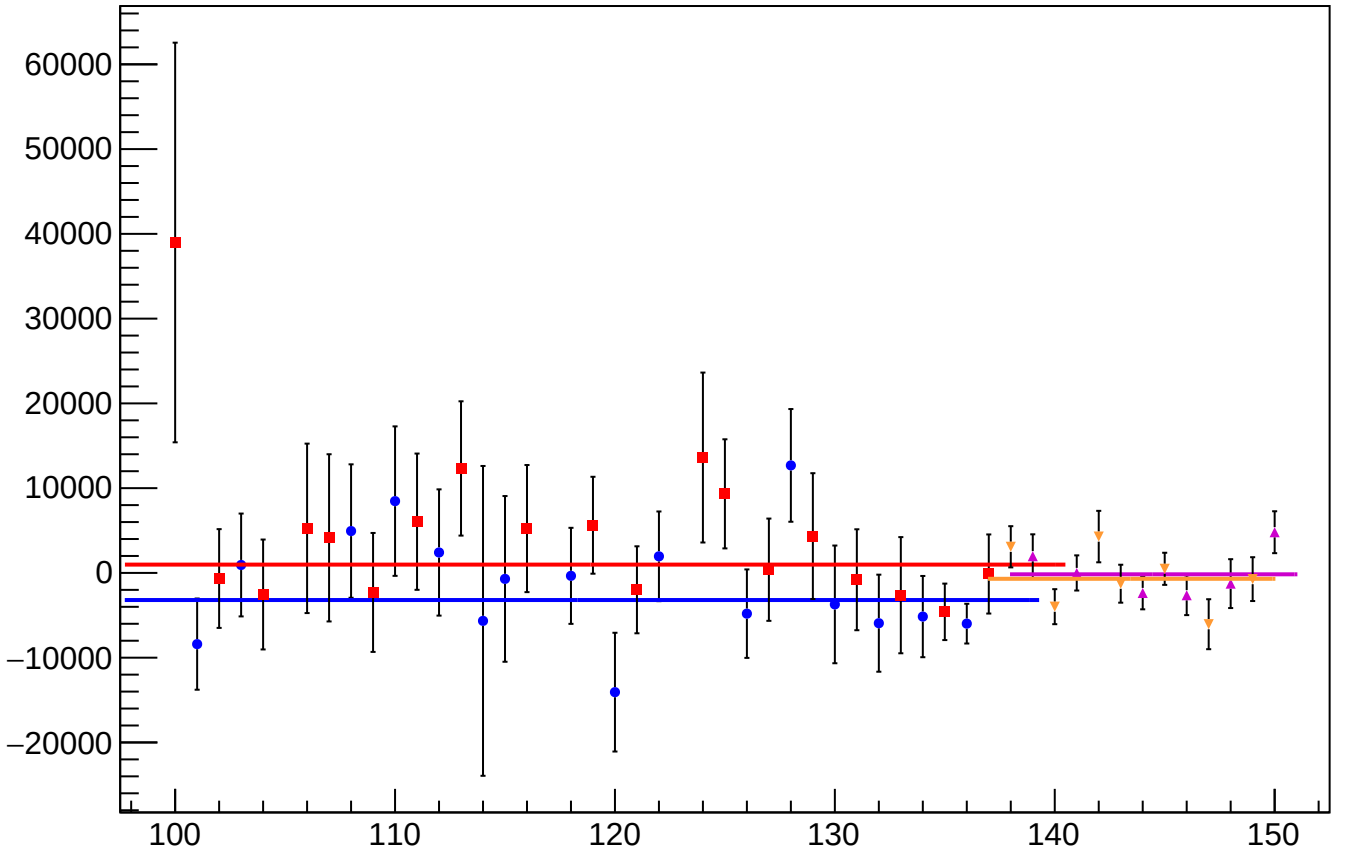
Left: 258.362+/-0.057 $\chi^2$/NDF: 278036.4/12

Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 284.628+/-0.058 $\chi^2$/NDF:947763.9/21

Out: 286.657+/-0.058 $\chi^2$/NDF:1122534.5/25

All: 285.644+/-0.041 $\chi^2$/NDF: 2070908.9/47




Right In: -3198.673+/-1353.816 $\chi^2$/NDF: 16.1/15

Left Out: -694.099+/-892.566 $\chi^2$/NDF:11.4/6

Right Out: 980.937+/-1445.265 $\chi^2$/NDF: 14.0/18

Left In: -164.103+/-946.602 $\chi^2$/NDF:7.3/5

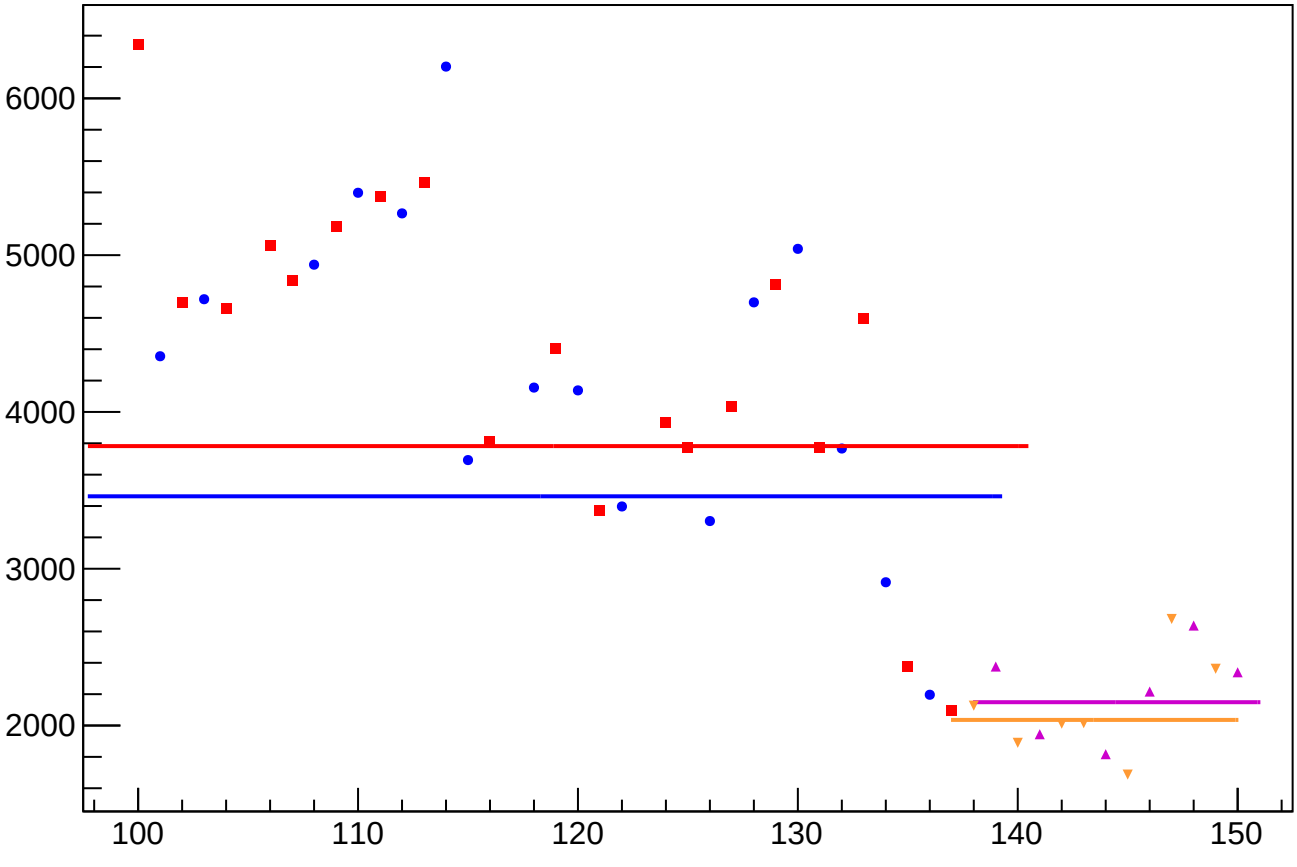
Left: -444.659+/-649.403 $\chi^2$/NDF: 18.8/12

Right: -1245.274+/-988.041 $\chi^2$/NDF: 34.5/34

In: -1160.537+/-775.774 $\chi^2$/NDF:26.7/21

Out: -231.623+/-759.416 $\chi^2$/NDF:26.3/25

All: -686.183+/-542.679 $\chi^2$/NDF: 53.8/47




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 2035.789+/-0.631 $\chi^2$/NDF:208132.8/6

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 2148.780+/-0.669 $\chi^2$/NDF:164999.0/5

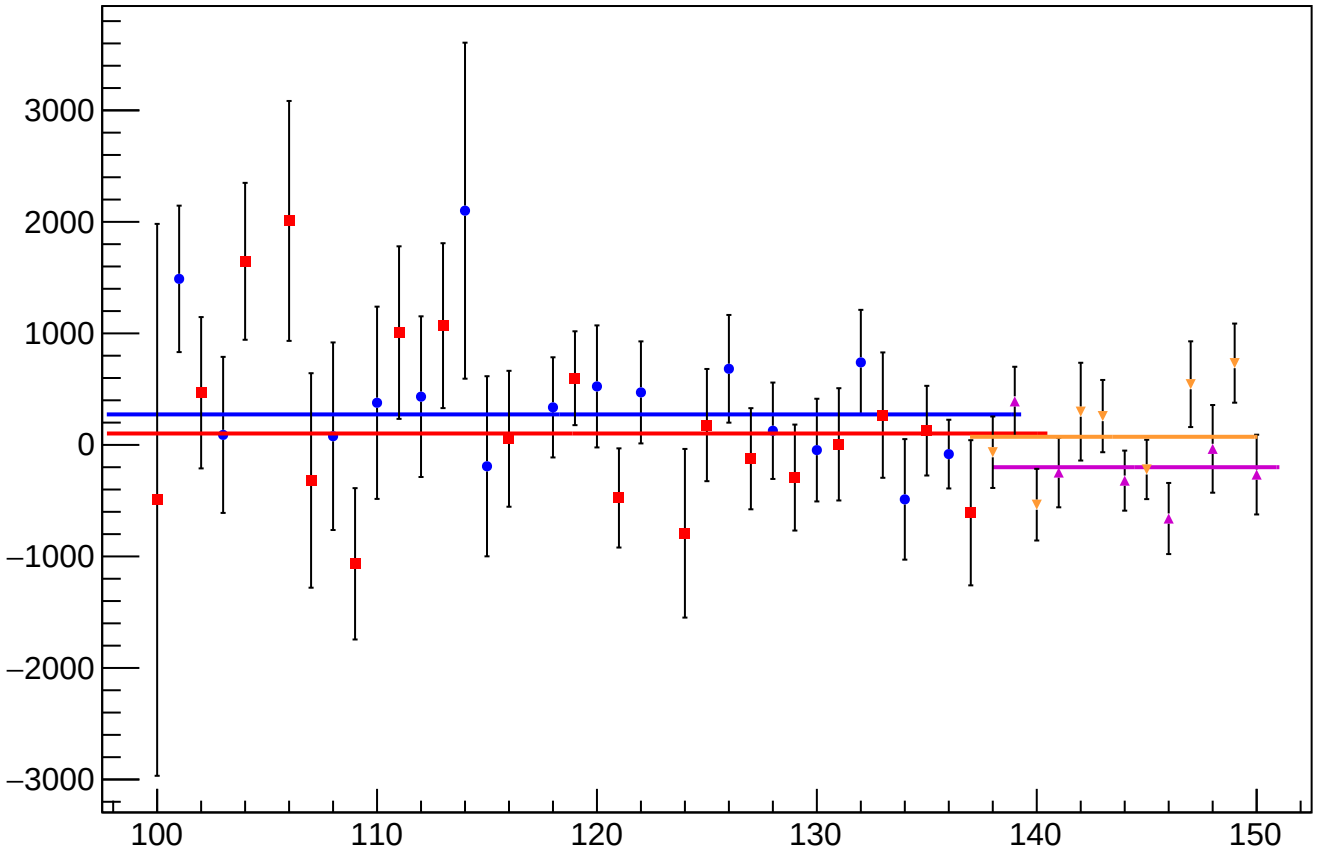
Left: 2088.968+/-0.459 $\chi^2$/NDF: 388216.4/12

Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2579.968+/-0.549 $\chi^2$/NDF:2738388.9/21

Out: 2517.965+/-0.537 $\chi^2$/NDF:3458429.1/25

All: 2548.306+/-0.384 $\chi^2$/NDF: 6203342.0/47




Right In: 273.578+/-132.537 $\chi^2$/NDF: 11.4/15

Left Out: 72.835+/-126.003 $\chi^2$/NDF:10.6/6

Right Out: 102.369+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -199.841+/-130.652 $\chi^2$/NDF:6.1/5

Left: -58.566+/-90.697 $\chi^2$/NDF: 18.9/12

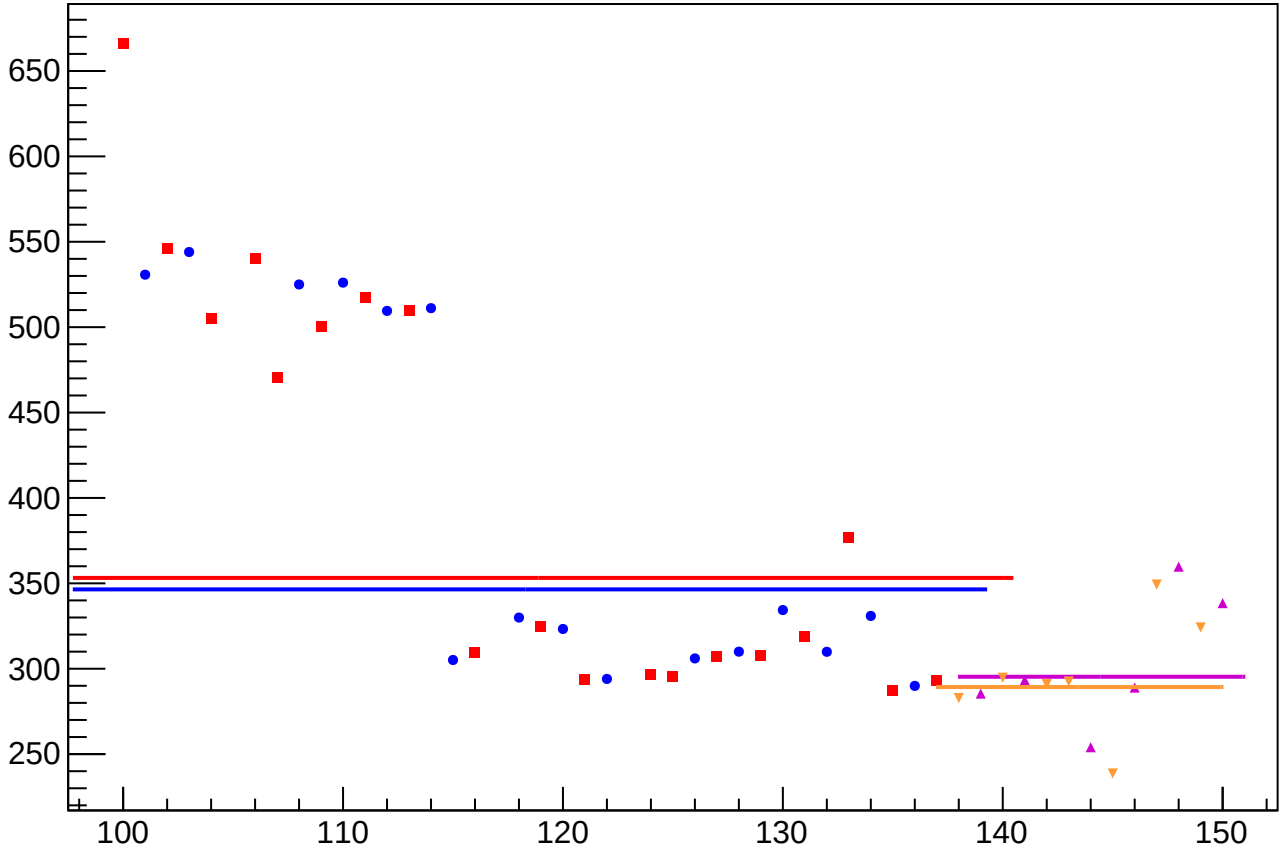
Right: 188.661+/-94.094 $\chi^2$/NDF: 33.6/34

In: 33.478+/-93.044 $\chi^2$/NDF:24.1/21

Out: 86.738+/-91.668 $\chi^2$/NDF:31.9/25

All: 60.505+/-65.300 $\chi^2$/NDF: 56.1/47

# dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.455+/-0.094 $\chi^2$/NDF: 768763.1/15

Left Out: 289.266+/-0.089 $\chi^2$/NDF:142037.3/6

Right Out: 353.178+/-0.094 $\chi^2$/NDF: 866364.3/18

Left In: 295.295+/-0.092 $\chi^2$/NDF:132699.7/5

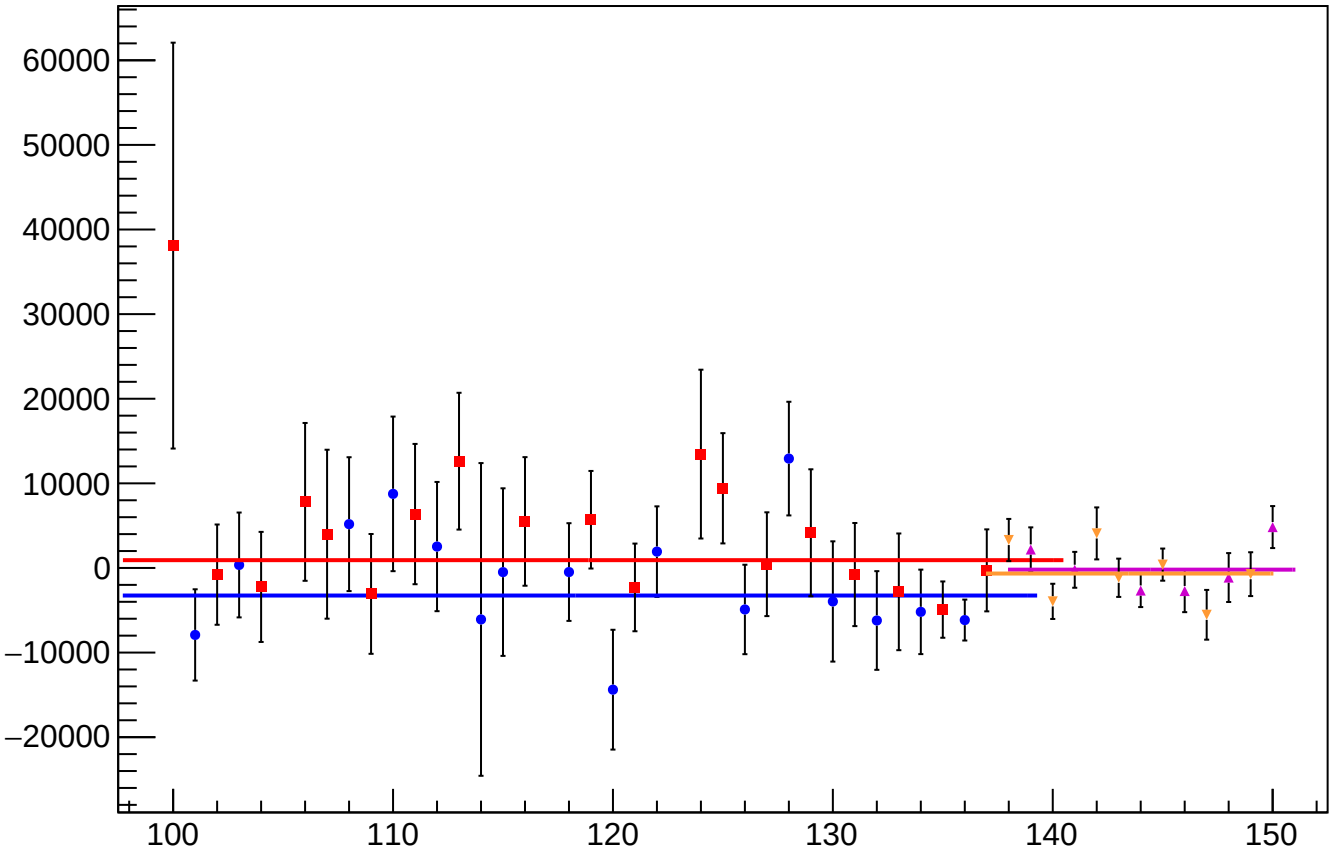
Left: 292.171+/-0.064 $\chi^2$/NDF: 276943.2/12

Right: 349.789+/-0.067 $\chi^2$/NDF: 1637679.7/34

In: 320.508+/-0.066 $\chi^2$/NDF:1052598.2/21

Out: 319.352+/-0.065 $\chi^2$/NDF:1250619.9/25

All: 319.921+/-0.046 $\chi^2$/NDF: 2303374.9/47




Right In: -3258.837+/-1384.139 $\chi^2$/NDF: 16.0/15

Left Out: -660.520+/-899.690 $\chi^2$/NDF:10.5/6

Right Out: 921.196+/-1460.727 $\chi^2$/NDF: 14.6/18

Left In: -200.060+/-965.597 $\chi^2$/NDF:7.7/5

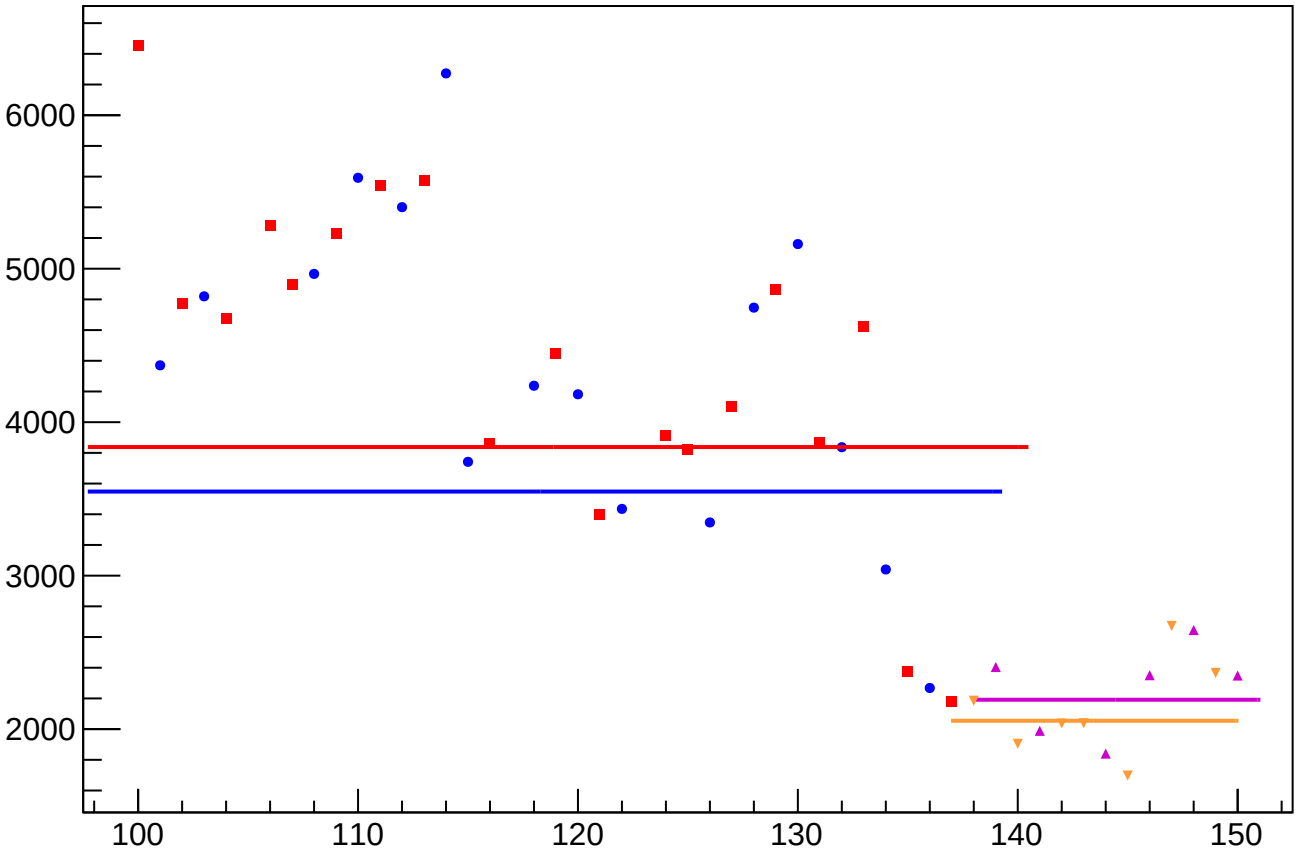
Left: -446.540+/-658.244 $\chi^2$/NDF: 18.3/12

Right: -1281.271+/-1004.719 $\chi^2$/NDF: 35.0/34

In: -1201.365+/-791.934 $\chi^2$/NDF:27.0/21

Out: -225.510+/-766.045 $\chi^2$/NDF:26.0/25

All: -697.226+/-550.601 $\chi^2$/NDF: 53.8/47




Right In: 3547.969+/-0.979 $\chi^2$/NDF: 1258486.8/15

Left Out: 2054.597+/-0.636 $\chi^2$/NDF:204152.8/6

Right Out: 3837.970+/-1.033 $\chi^2$/NDF: 1155831.8/18

Left In: 2191.502+/-0.683 $\chi^2$/NDF:161609.4/5

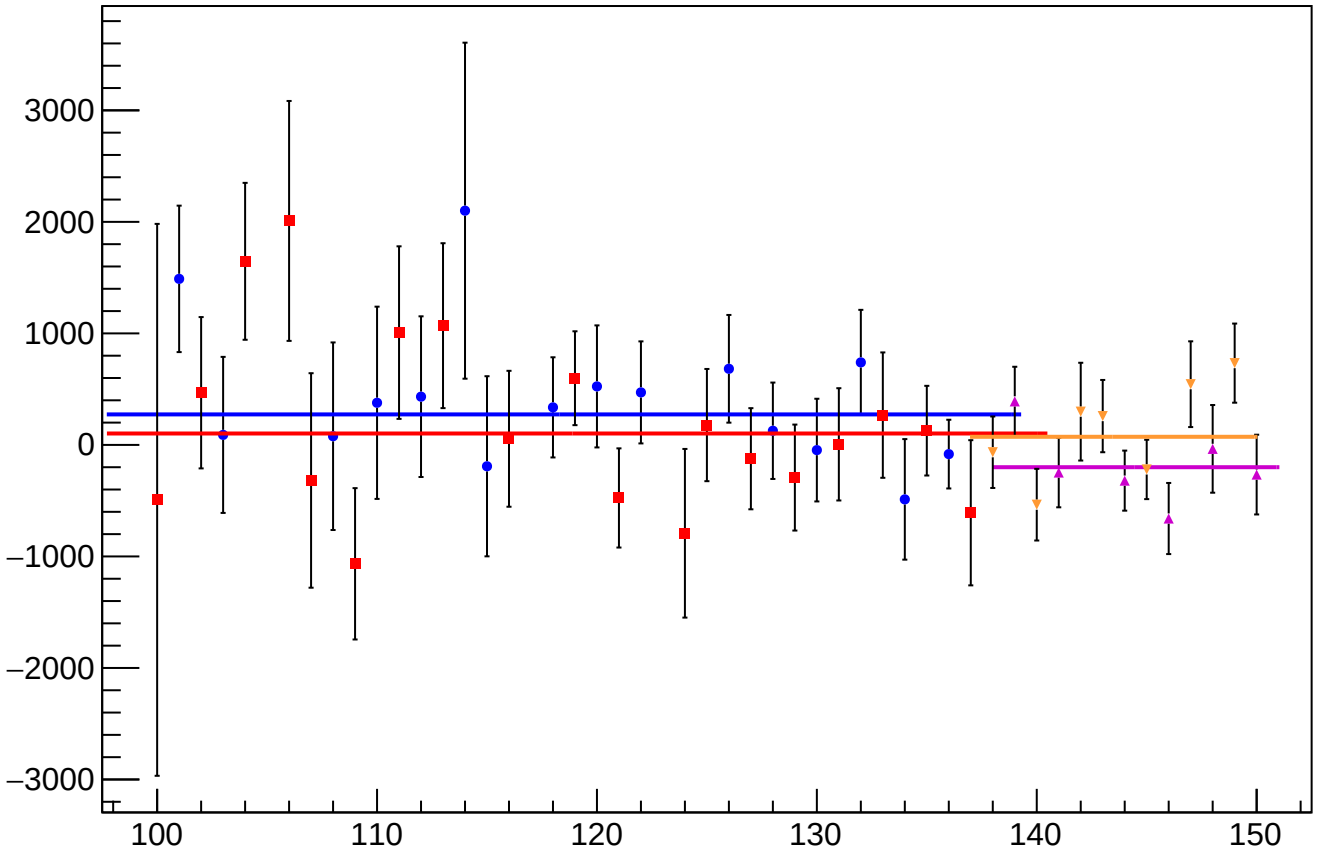
Left: 2118.218+/-0.465 $\chi^2$/NDF: 387283.2/12

Right: 3685.168+/-0.710 $\chi^2$/NDF: 2455854.0/34

In: 2635.548+/-0.560 $\chi^2$/NDF:2712133.3/21

Out: 2545.068+/-0.542 $\chi^2$/NDF:3521206.0/25

All: 2588.805+/-0.389 $\chi^2$/NDF: 6246826.6/47




Right In: 273.582+/-132.536 $\chi^2$/NDF: 11.4/15

Left Out: 72.828+/-126.003 $\chi^2$/NDF:10.6/6

Right Out: 102.368+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -199.843+/-130.652 $\chi^2$/NDF:6.1/5

Left: -58.570+/-90.697 $\chi^2$/NDF: 18.9/12

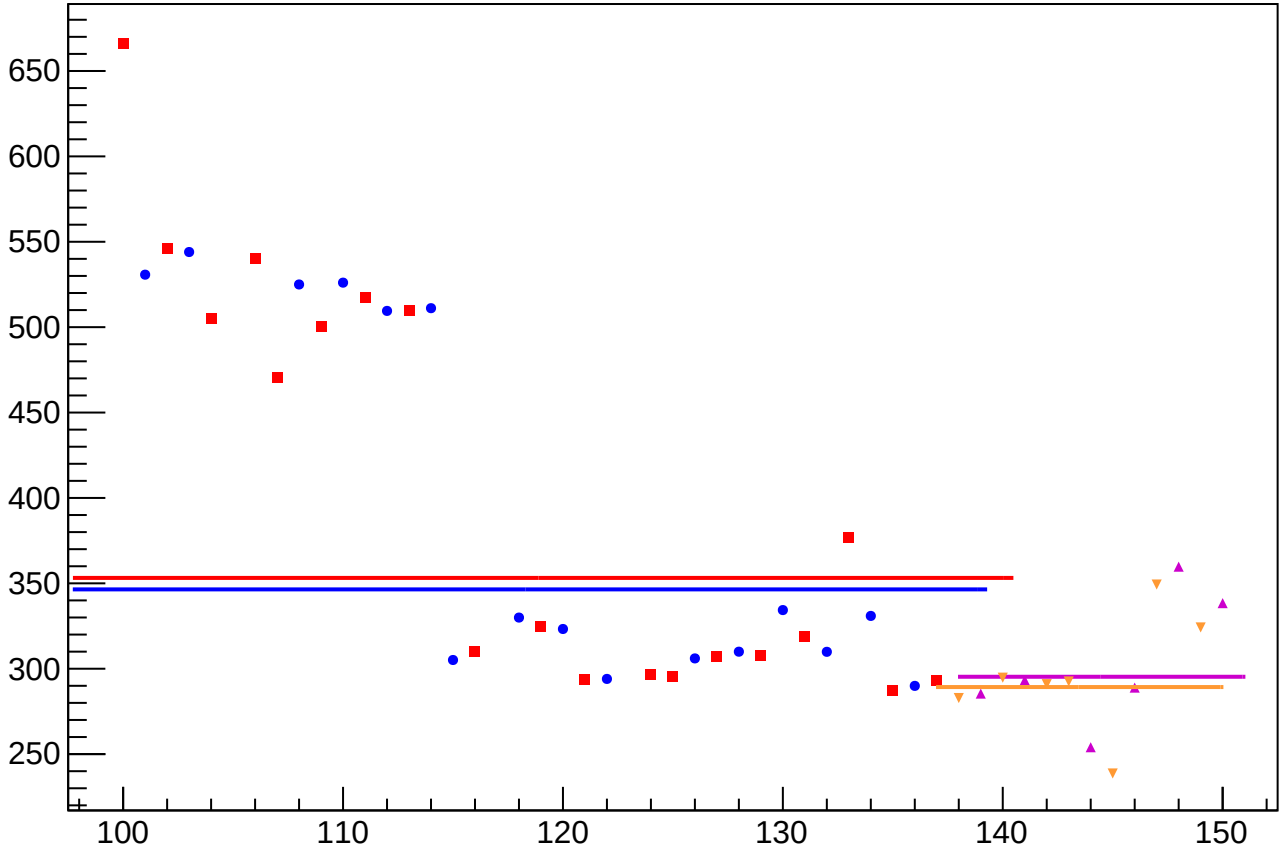
Right: 188.663+/-94.093 $\chi^2$/NDF: 33.6/34

In: 33.480+/-93.044 $\chi^2$/NDF:24.1/21

Out: 86.734+/-91.668 $\chi^2$/NDF:31.9/25

All: 60.504+/-65.300 $\chi^2$/NDF: 56.1/47

# eigen_dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.453+/-0.094 $\chi^2$/NDF: 768754.7/15

Left Out: 289.266+/-0.089 $\chi^2$/NDF:142039.4/6

Right Out: 353.176+/-0.094 $\chi^2$/NDF: 866353.6/18

Left In: 295.295+/-0.092 $\chi^2$/NDF:132700.9/5

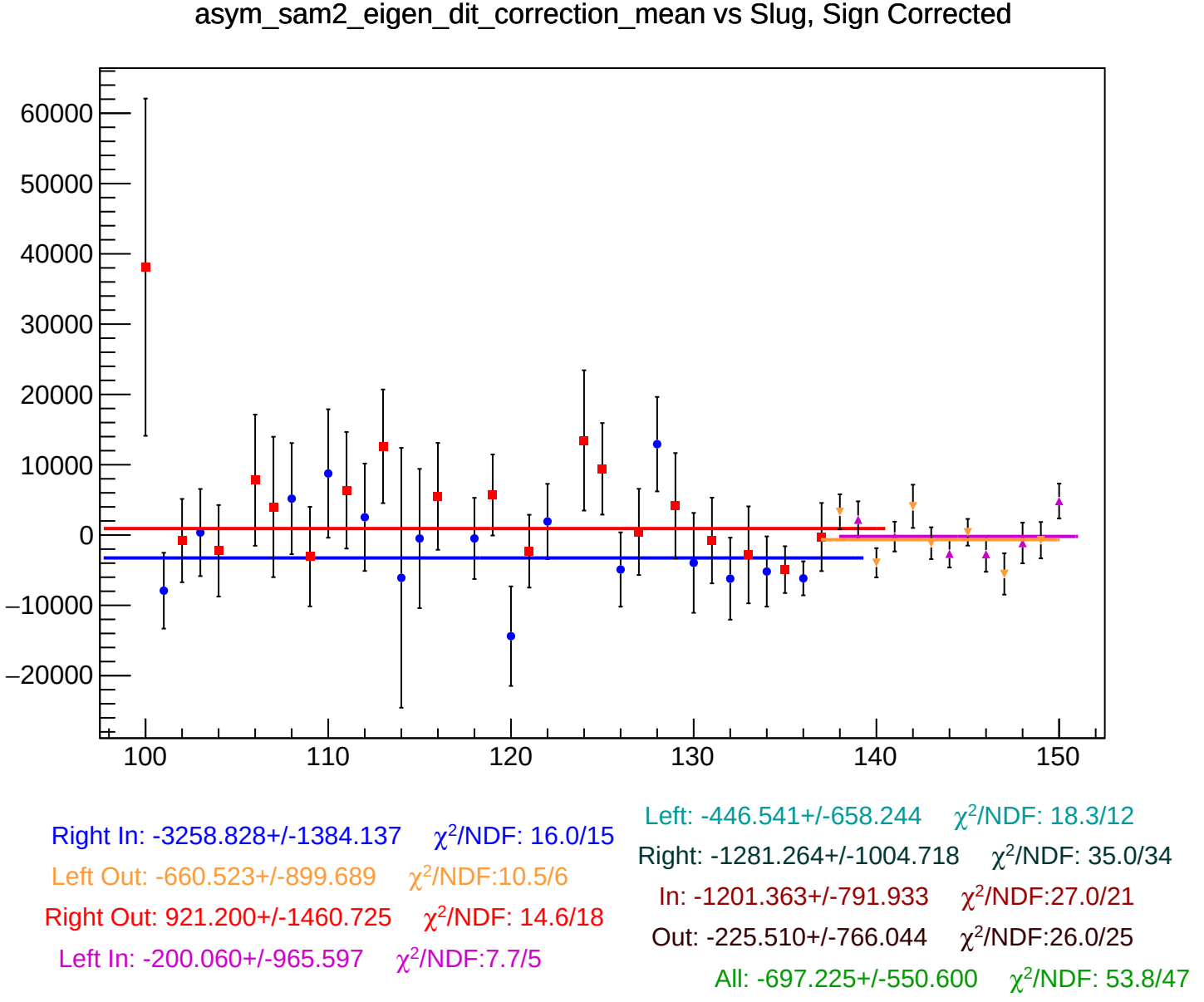
Left: 292.171+/-0.064 $\chi^2$/NDF: 276946.5/12

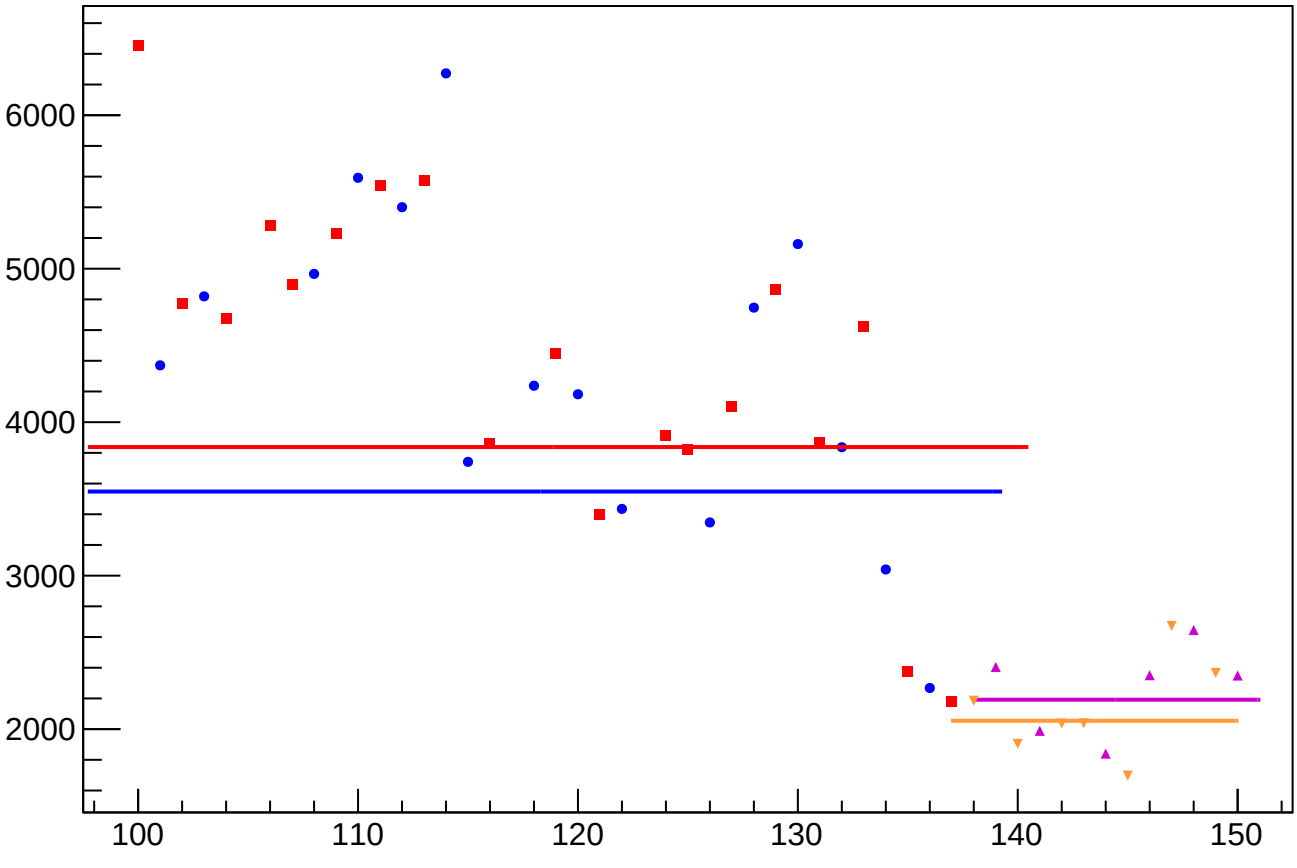
Right: 349.788+/-0.067 $\chi^2$/NDF: 1637661.2/34

In: 320.507+/-0.066 $\chi^2$/NDF:1052580.2/21

Out: 319.351+/-0.065 $\chi^2$/NDF:1250603.0/25

All: 319.921+/-0.046 $\chi^2$/NDF: 2303339.8/47


asym_sam2_eigen_dit_correction_mean vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
Right In: -3258.828+/-1384.137 χ²/NDF: 16.0/15
Left Out: -660.523+/-899.689 χ²/NDF:10.5/6
Right Out: 921.200+/-1460.725 χ²/NDF: 14.6/18
Left In: -200.060+/-965.597 χ²/NDF:7.7/5
Left: -446.541+/-658.244 χ²/NDF: 18.3/12
Right: -1281.264+/-1004.718 χ²/NDF: 35.0/34
In: -1201.363+/-791.933 χ²/NDF:27.0/21
Out: -225.510+/-766.044 χ²/NDF:26.0/25
All: -697.225+/-550.600 χ²/NDF: 53.8/47




Right In: 3547.966+/-0.979 $\chi^2$/NDF: 1258472.8/15

Left Out: 2054.595+/-0.636 $\chi^2$/NDF:204155.5/6

Right Out: 3837.965+/-1.033 $\chi^2$/NDF: 1155821.5/18

Left In: 2191.500+/-0.683 $\chi^2$/NDF:161608.4/5

Left: 2118.216+/-0.465 $\chi^2$/NDF: 387285.3/12

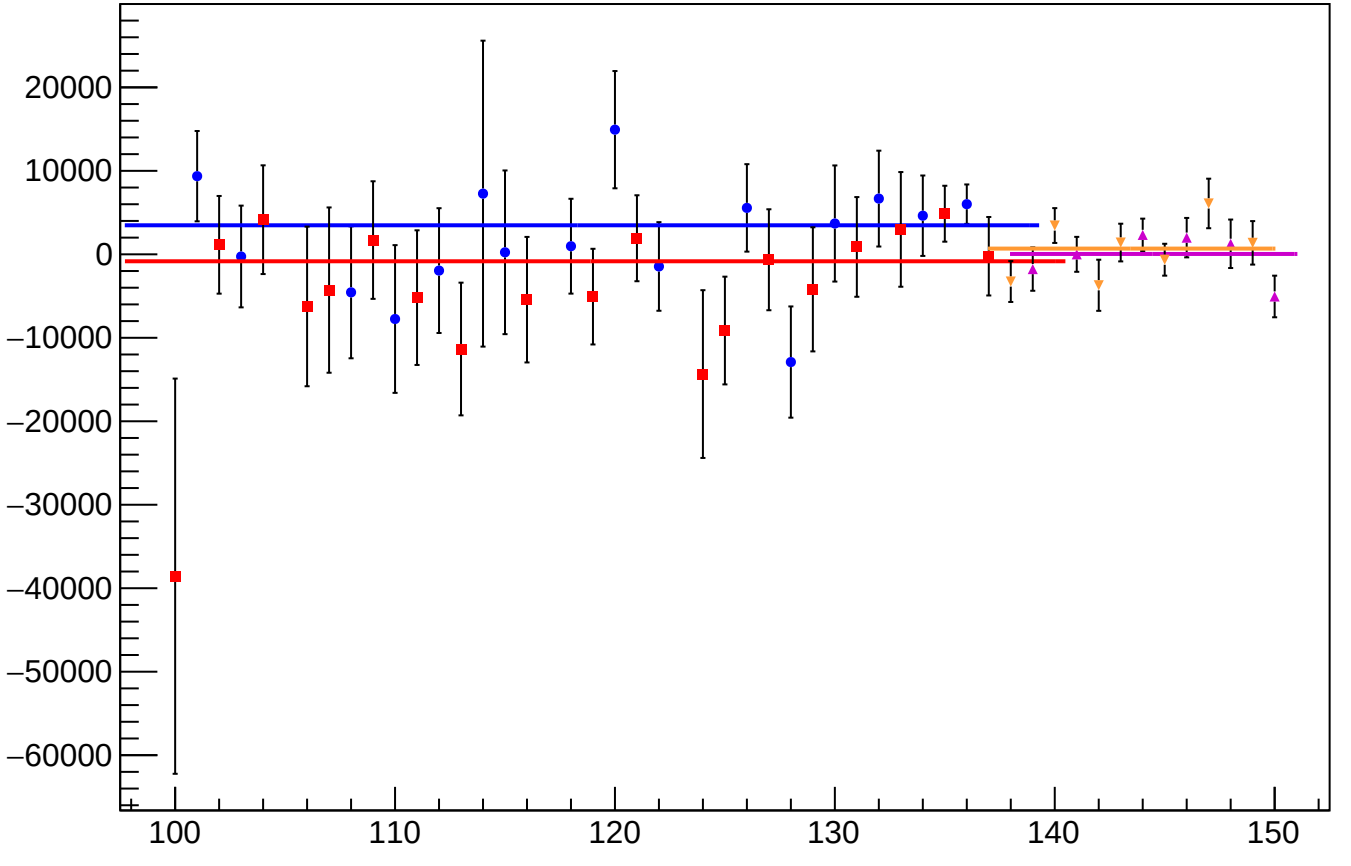
Right: 3685.164+/-0.710 $\chi^2$/NDF: 2455829.5/34

In: 2635.546+/-0.560 $\chi^2$/NDF:2712118.6/21

Out: 2545.065+/-0.542 $\chi^2$/NDF:3521200.3/25

All: 2588.802+/-0.389 $\chi^2$/NDF: 6246806.5/47

# asym_sam2_mean vs Slug, Sign Corrected




Right In: 3478.372+/-1360.356 $\chi^2$/NDF: 16.3/15

Left Out: 686.534+/-899.858 $\chi^2$/NDF:10.4/6

Right Out: -832.583+/-1449.649 $\chi^2$/NDF: 14.0/18

Left In: 43.351+/-953.783 $\chi^2$/NDF:6.9/5

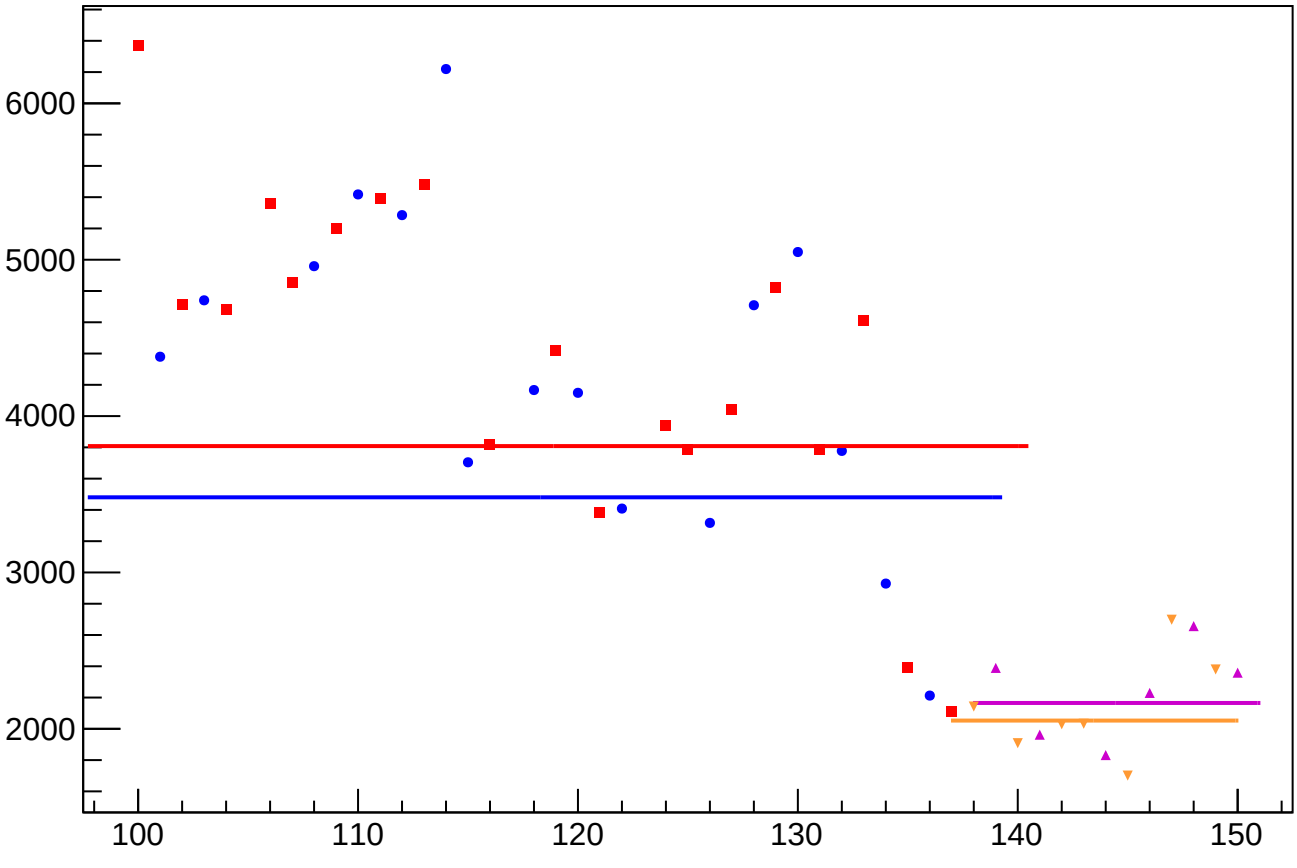
Left: 383.637+/-654.530 $\chi^2$/NDF: 17.5/12

Right: 1459.744+/-991.983 $\chi^2$/NDF: 35.1/34

In: 1175.430+/-780.955 $\chi^2$/NDF:27.5/21

Out: 263.998+/-764.538 $\chi^2$/NDF:25.2/25

All: 710.033+/-546.322 $\chi^2$/NDF: 53.4/47




Right In: 3480.559+/-0.962 $\chi^2$/NDF: 1296641.6/15

Left Out: 2052.784+/-0.636 $\chi^2$/NDF:206492.7/6

Right Out: 3808.151+/-1.025 $\chi^2$/NDF: 1147564.2/18

Left In: 2165.363+/-0.674 $\chi^2$/NDF:163198.4/5

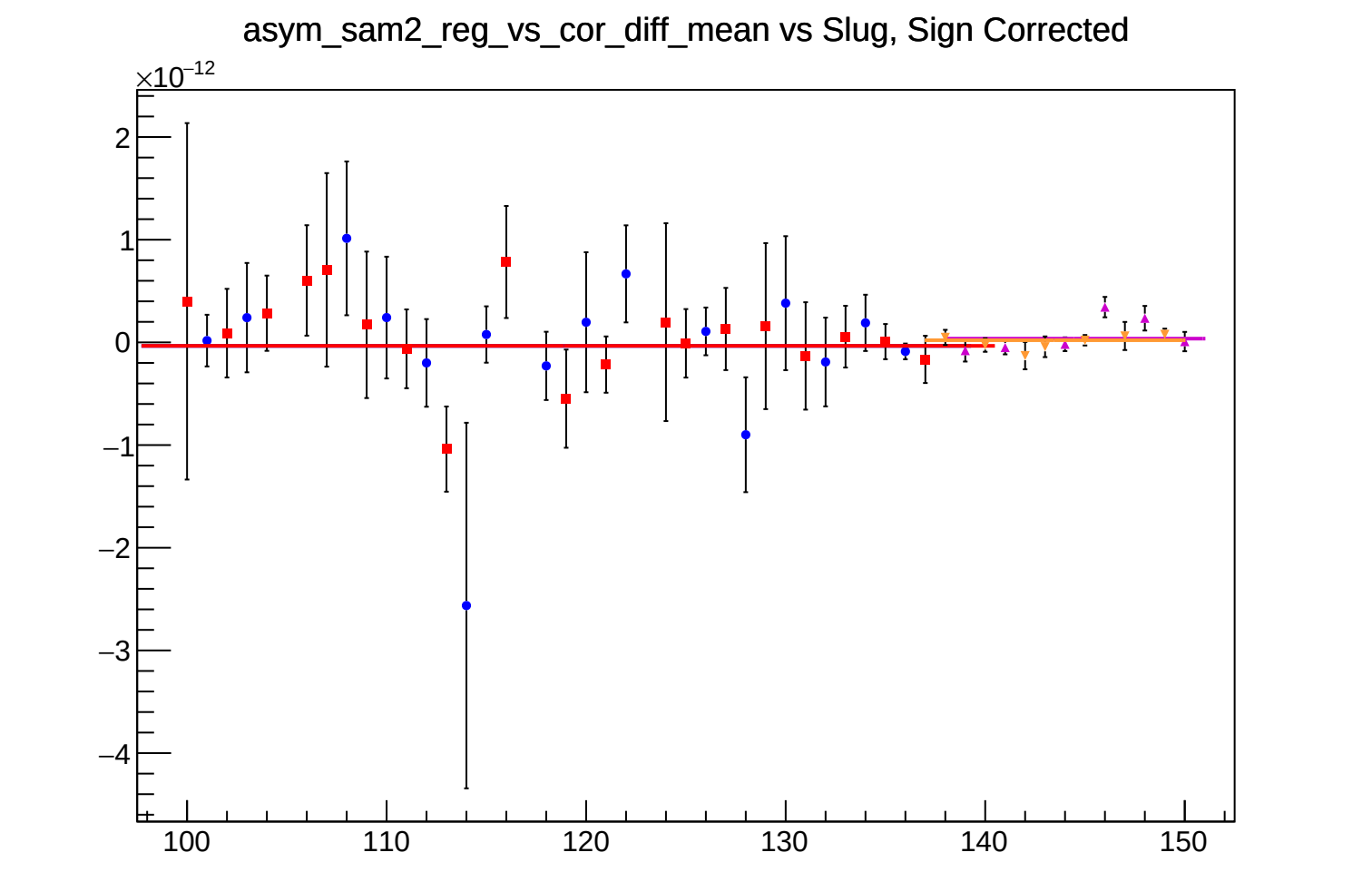
Left: 2105.801+/-0.463 $\chi^2$/NDF: 384433.0/12

Right: 3633.956+/-0.701 $\chi^2$/NDF: 2498515.1/34

In: 2598.812+/-0.552 $\chi^2$/NDF:2713153.9/21

Out: 2541.032+/-0.541 $\chi^2$/NDF:3470906.2/25

All: 2569.308+/-0.386 $\chi^2$/NDF: 6189650.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.9/5

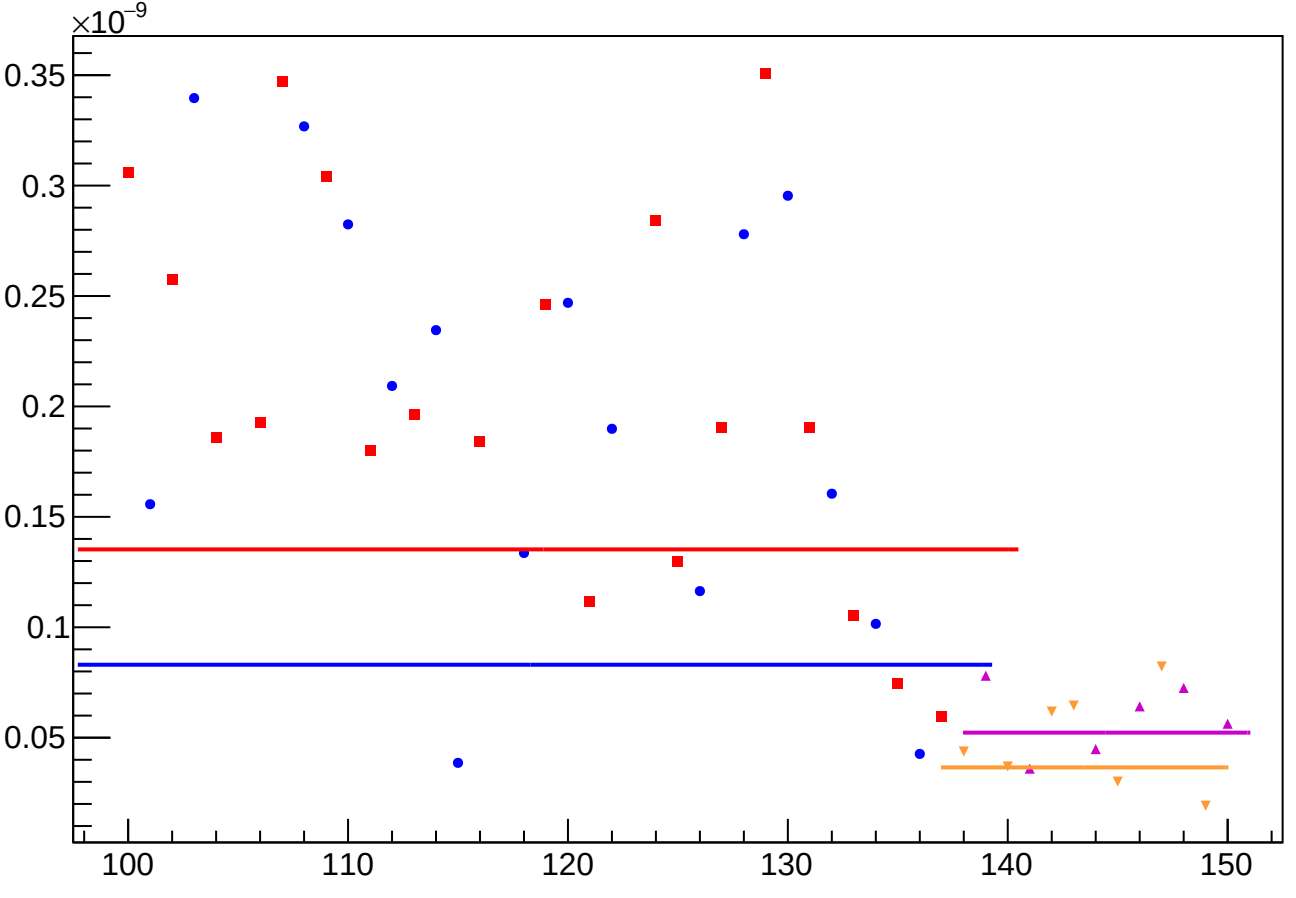
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.5/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 25.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:28.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:17.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 46.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2702339.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:694407.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1401659.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:350076.6/5

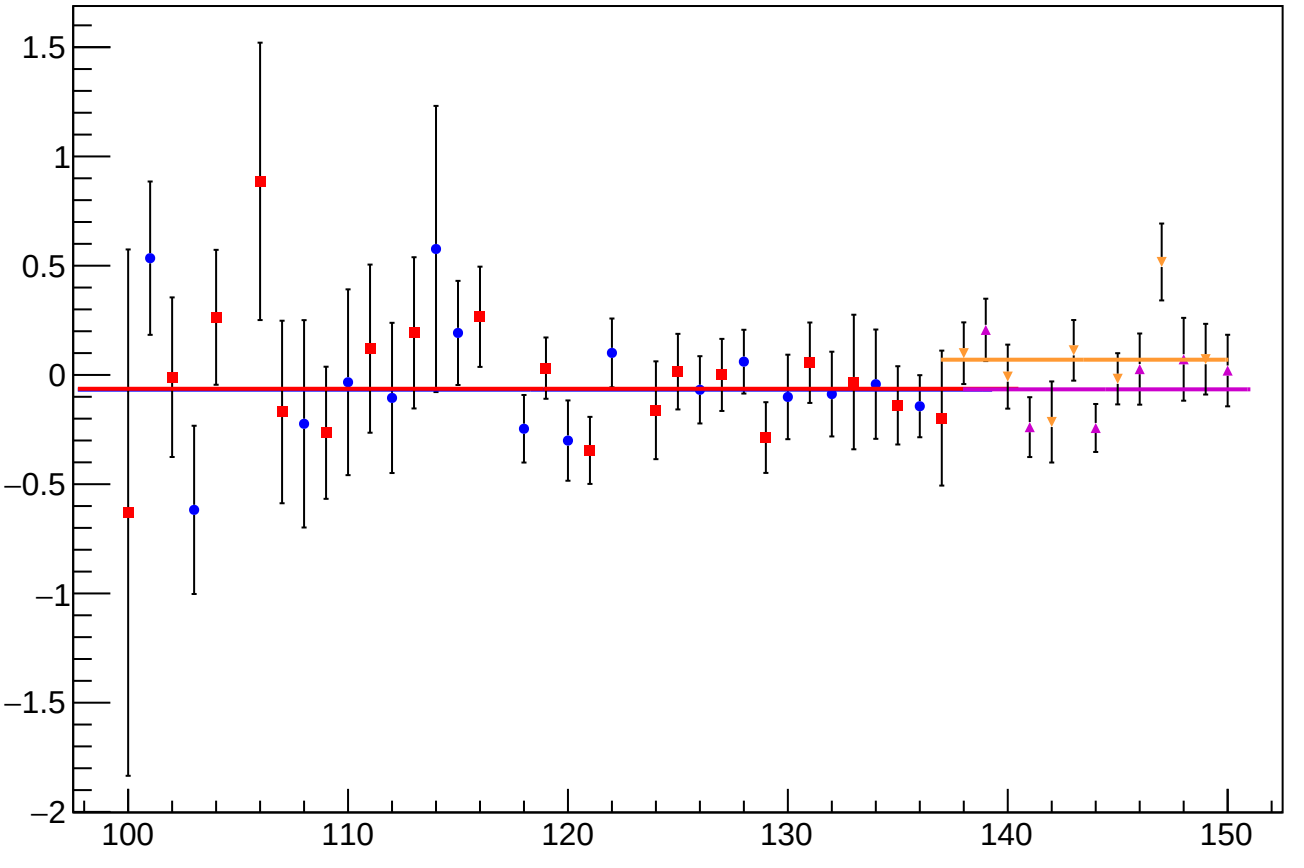
Left: 0.000+/-0.000 $\chi^2$/NDF: 1295514.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 4605860.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3438626.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4546967.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8232841.5/47




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.070+/-0.056 $\chi^2$/NDF:9.8/6

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.066+/-0.059 $\chi^2$/NDF:8.9/5

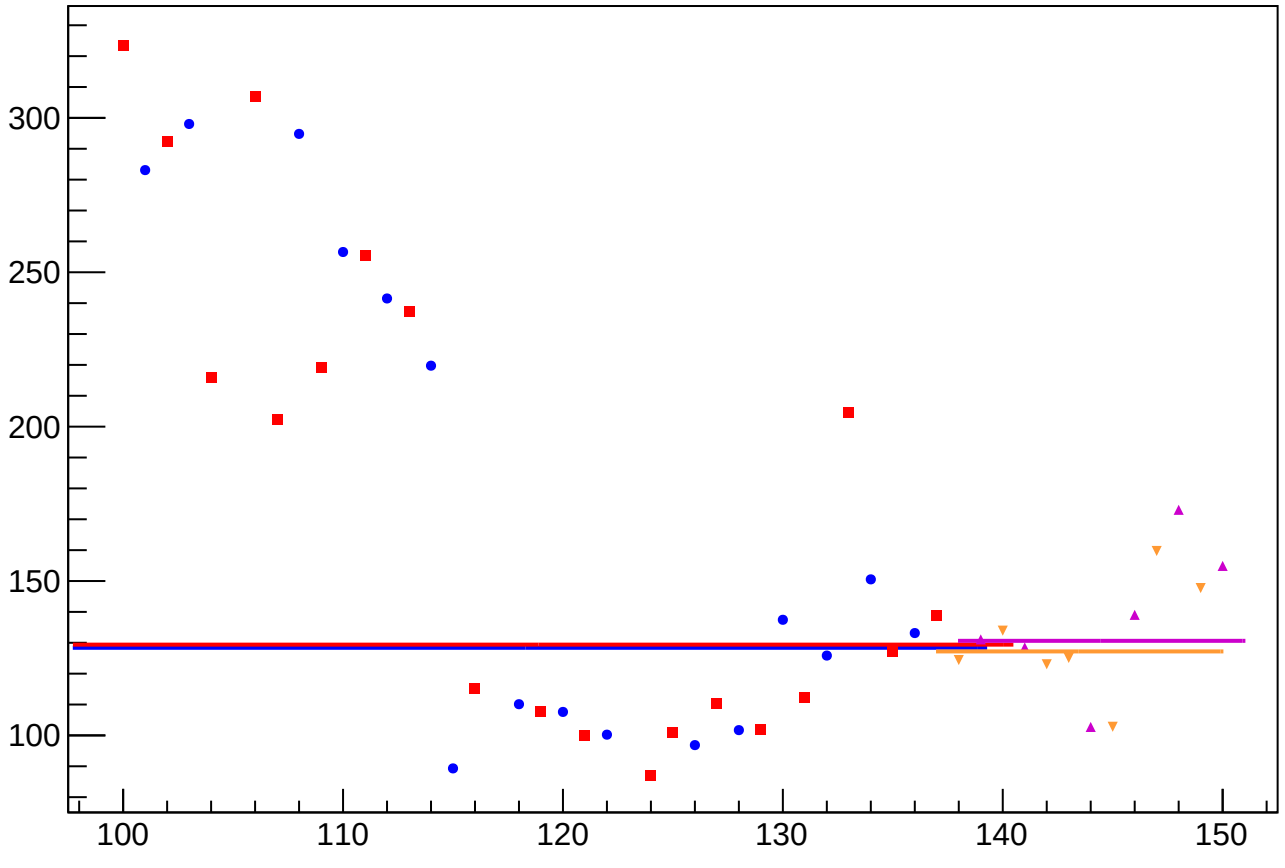
Left: 0.006+/-0.041 $\chi^2$/NDF: 21.5/12

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.067+/-0.039 $\chi^2$/NDF:21.4/21

Out: -0.002+/-0.038 $\chi^2$/NDF:26.9/25

All: -0.033+/-0.027 $\chi^2$/NDF: 49.7/47




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 127.201+/-0.039 $\chi^2$/NDF:193805.5/6

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 130.631+/-0.042 $\chi^2$/NDF:279021.0/5

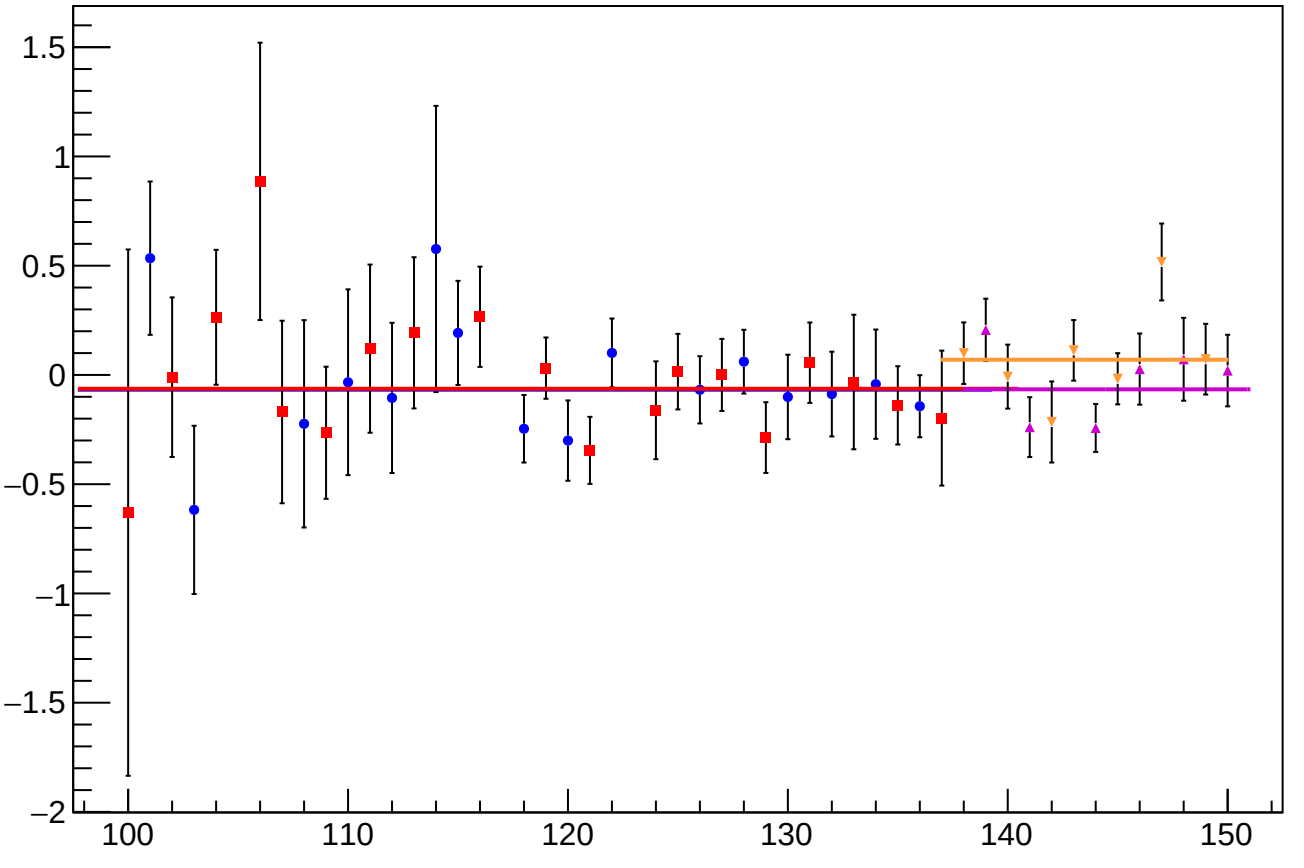
Left: 128.823+/-0.029 $\chi^2$/NDF: 476400.7/12

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 129.361+/-0.027 $\chi^2$/NDF:2085747.9/21

Out: 128.385+/-0.027 $\chi^2$/NDF:2083749.1/25

All: 128.860+/-0.019 $\chi^2$/NDF: 4170142.6/47




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.070+/-0.056 $\chi^2$/NDF:9.8/6

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.066+/-0.059 $\chi^2$/NDF:8.9/5

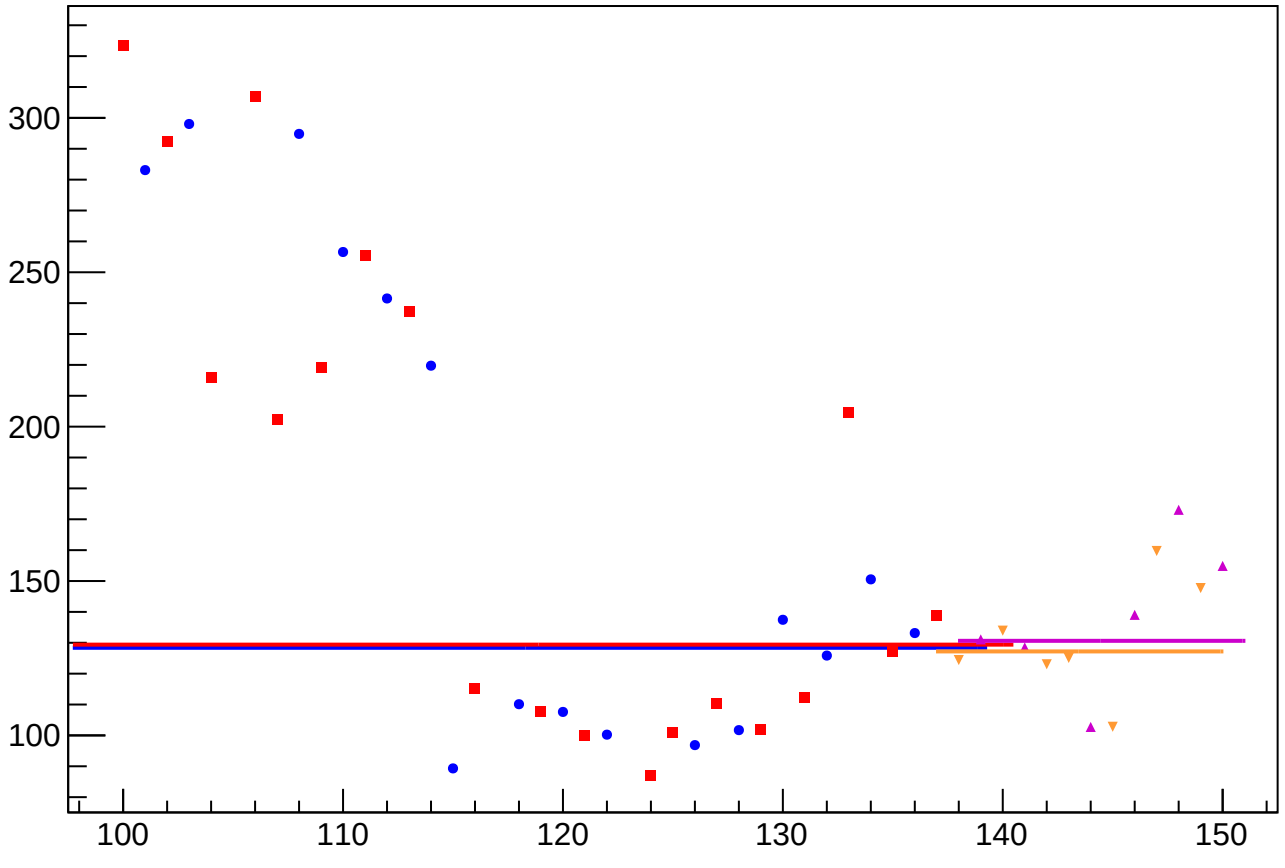
Left: 0.006+/-0.041 $\chi^2$/NDF: 21.5/12

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.067+/-0.039 $\chi^2$/NDF:21.4/21

Out: -0.002+/-0.038 $\chi^2$/NDF:26.9/25

All: -0.033+/-0.027 $\chi^2$/NDF: 49.7/47




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 127.201+/-0.039 $\chi^2$/NDF:193805.5/6

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 130.631+/-0.042 $\chi^2$/NDF:279021.0/5

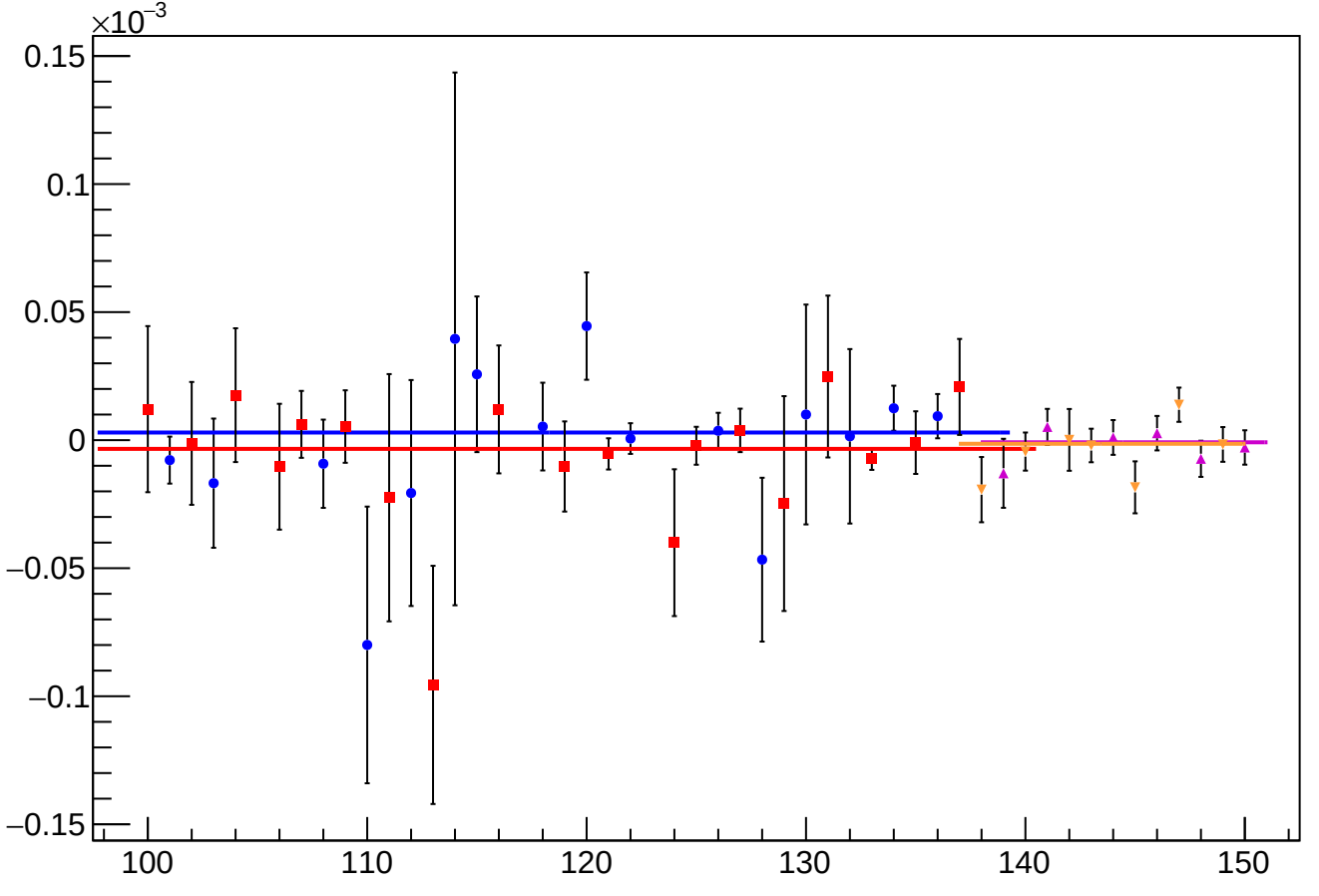
Left: 128.823+/-0.029 $\chi^2$/NDF: 476400.7/12

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 129.361+/-0.027 $\chi^2$/NDF:2085747.9/21

Out: 128.385+/-0.027 $\chi^2$/NDF:2083749.1/25

All: 128.860+/-0.019 $\chi^2$/NDF: 4170142.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 13.0/12

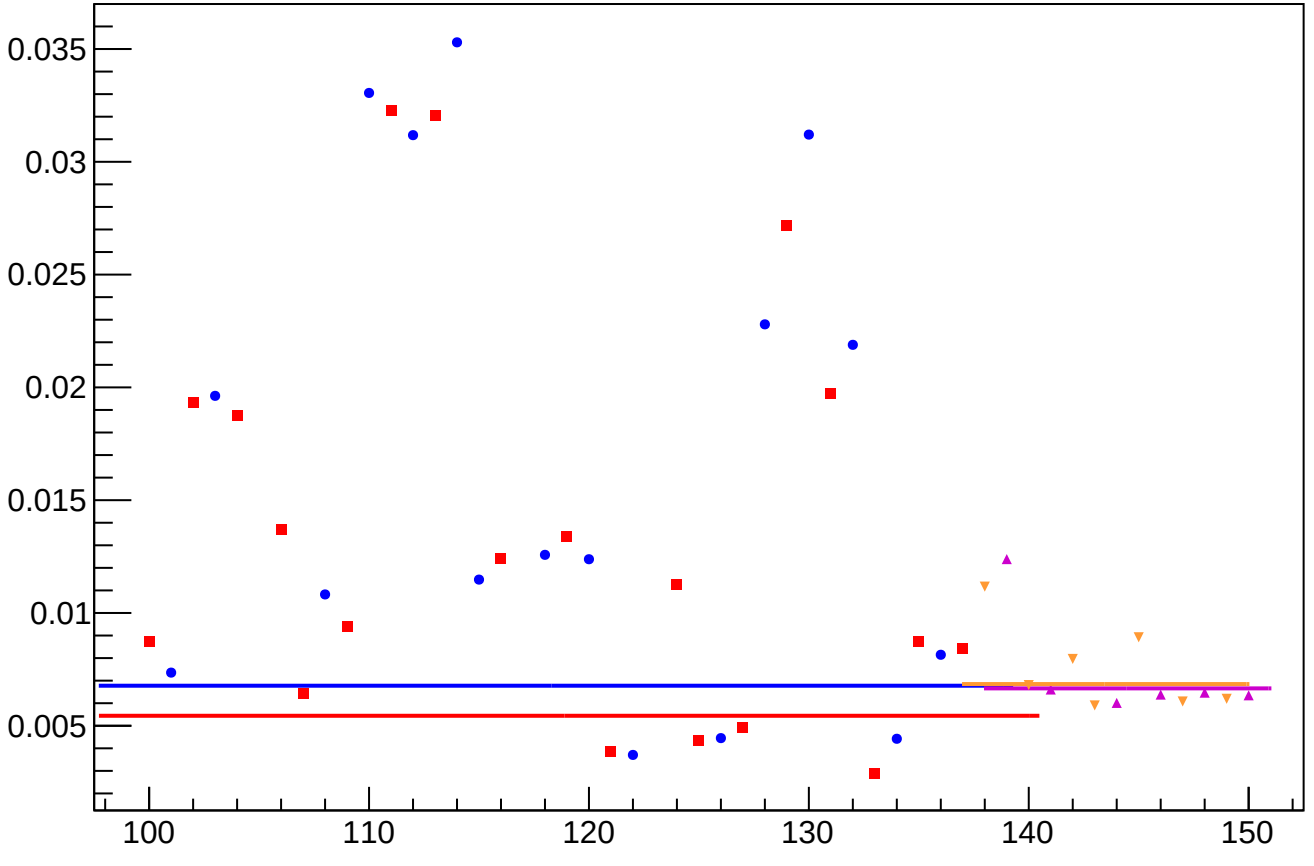
Right: -0.000+/-0.000 $\chi^2$/NDF: 29.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 42.2/47

asym_sam2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 4772275.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:417649.5/6

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5572364.1/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:388810.2/5

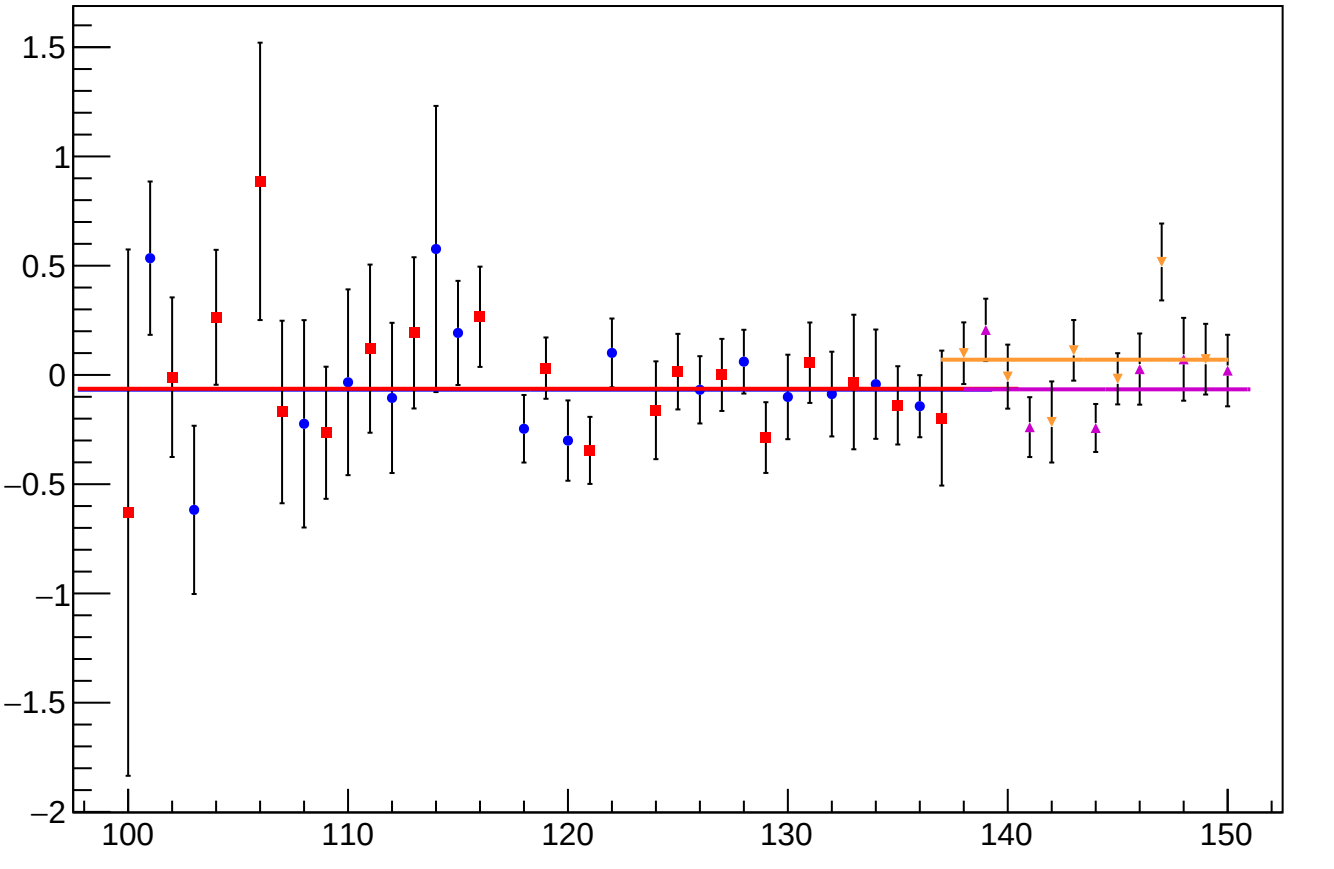
Left: 0.007+/-0.000 $\chi^2$/NDF: 810516.0/12

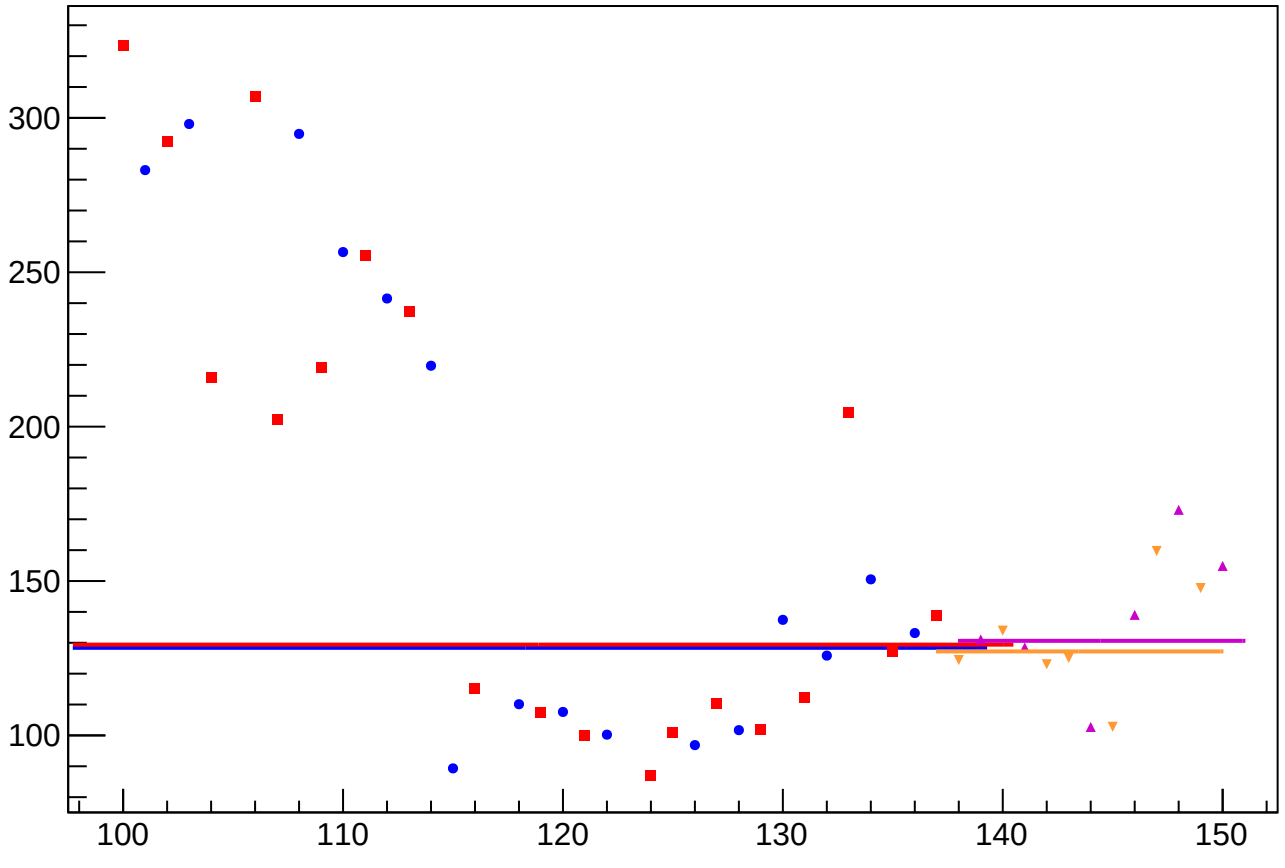
Right: 0.006+/-0.000 $\chi^2$/NDF: 10558524.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:5162578.0/21

Out: 0.006+/-0.000 $\chi^2$/NDF:6237586.0/25

All: 0.006+/-0.000 $\chi^2$/NDF: 11507068.1/47


asym_sam2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
1.5
1
0.5
0
−0.5
−1
−1.5
−2
100
110
120
130
140
150
Right In: -0.067+/-0.052 χ²/NDF: 12.5/15
Left Out: 0.070+/-0.056 χ²/NDF:9.8/6
Right Out: -0.063+/-0.052 χ²/NDF: 14.0/18
Left In: -0.066+/-0.059 χ²/NDF:8.9/5
Left: 0.006+/-0.041 χ²/NDF: 21.5/12
Right: -0.065+/-0.037 χ²/NDF: 26.5/34
In: -0.067+/-0.039 χ²/NDF:21.4/21
Out: -0.002+/-0.038 χ²/NDF:26.9/25
All: -0.033+/-0.027 χ²/NDF: 49.7/47




Right In: 128.377+/-0.037 $\chi^2$/NDF: 1805026.7/15

Left Out: 127.201+/-0.039 $\chi^2$/NDF:193816.6/6

Right Out: 129.396+/-0.036 $\chi^2$/NDF: 1888272.8/18

Left In: 130.631+/-0.042 $\chi^2$/NDF:279021.3/5

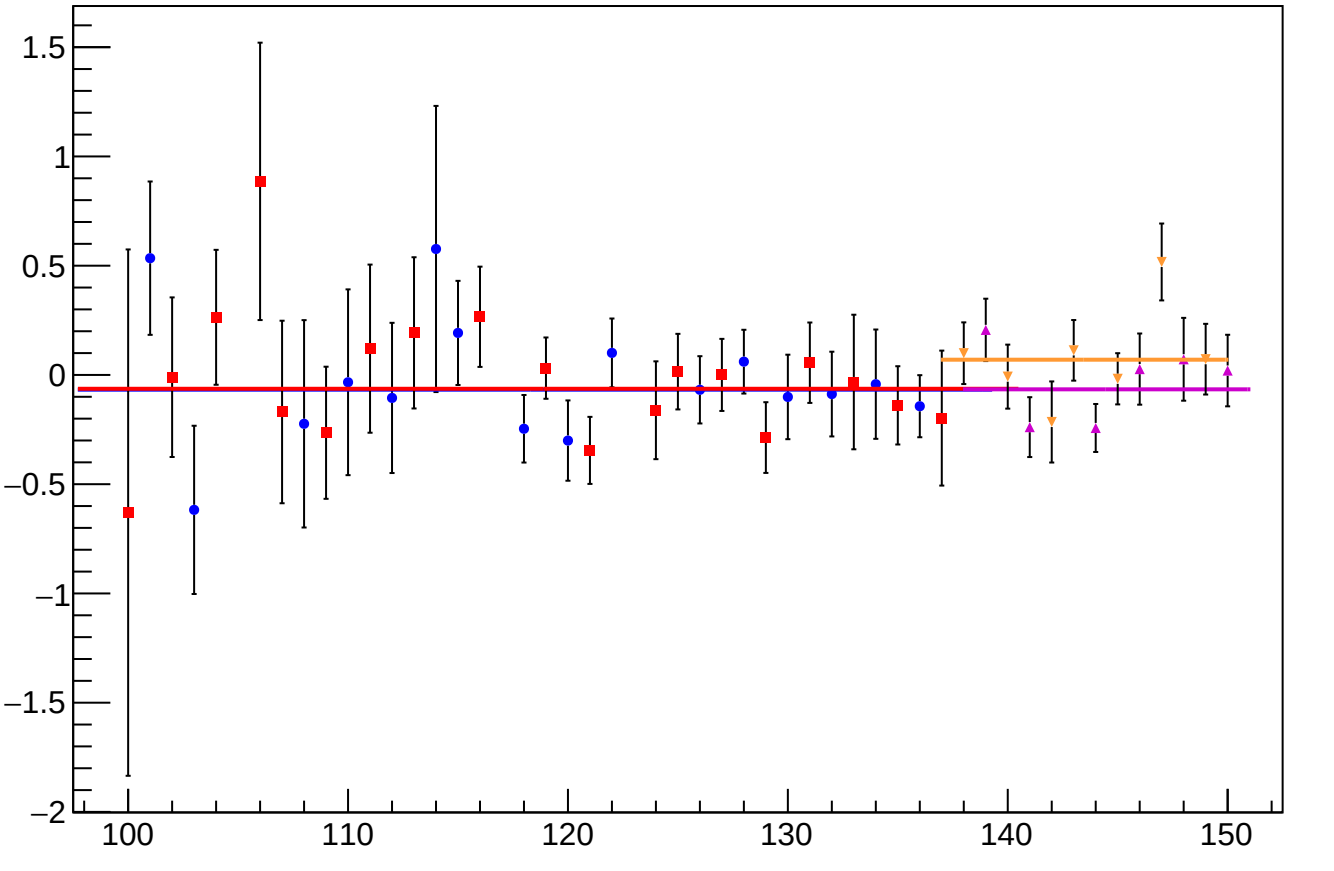
Left: 128.823+/-0.029 $\chi^2$/NDF: 476412.4/12

Right: 128.888+/-0.026 $\chi^2$/NDF: 3693688.1/34

In: 129.359+/-0.027 $\chi^2$/NDF:2085700.8/21

Out: 128.384+/-0.027 $\chi^2$/NDF:2083756.8/25

All: 128.859+/-0.019 $\chi^2$/NDF: 4170103.3/47




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.070+/-0.056 $\chi^2$/NDF:9.8/6

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.066+/-0.059 $\chi^2$/NDF:8.9/5

Left: 0.006+/-0.041 $\chi^2$/NDF: 21.5/12

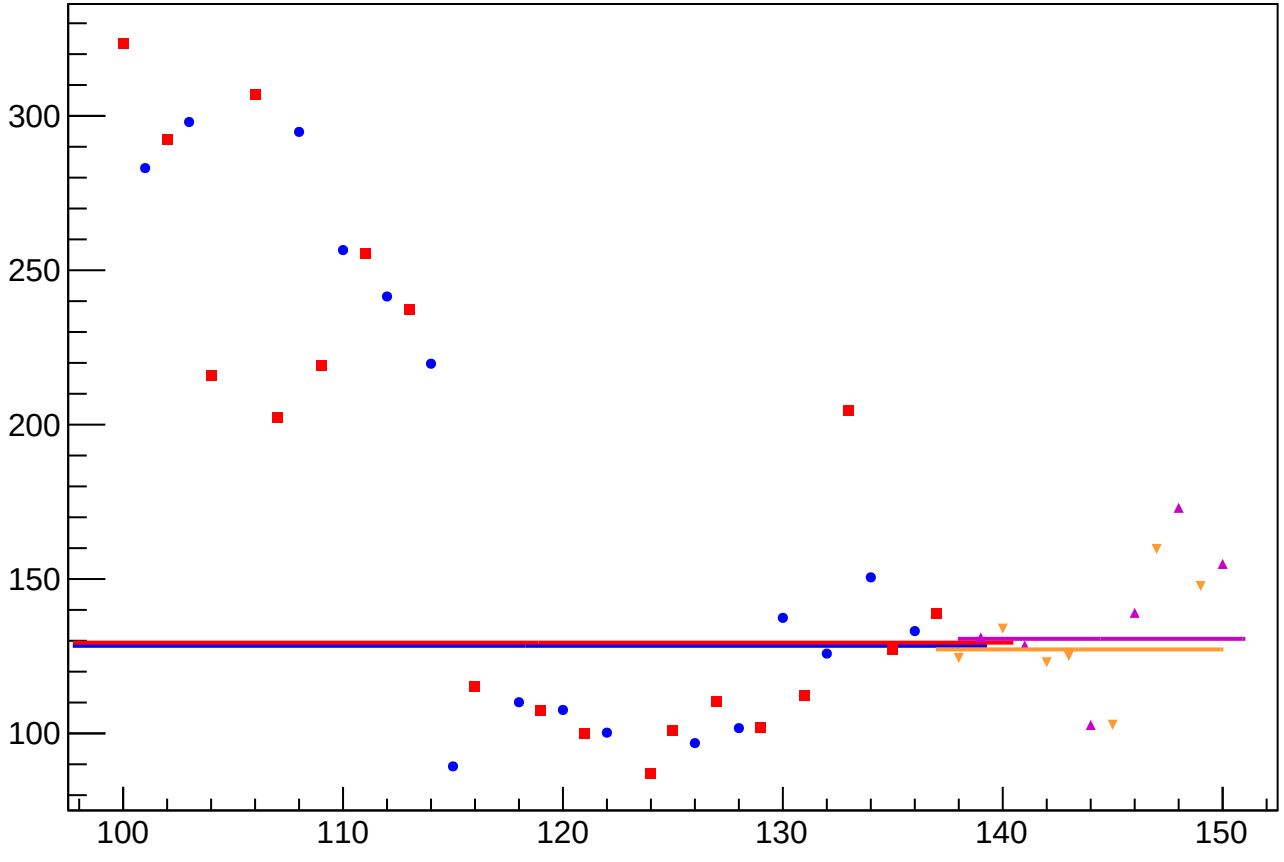
Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.067+/-0.039 $\chi^2$/NDF:21.4/21

Out: -0.002+/-0.038 $\chi^2$/NDF:26.9/25

All: -0.033+/-0.027 $\chi^2$/NDF: 49.7/47

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 128.377+/-0.037 $\chi^2$/NDF: 1805026.7/15

Left Out: 127.201+/-0.039 $\chi^2$/NDF:193816.6/6

Right Out: 129.396+/-0.036 $\chi^2$/NDF: 1888272.8/18

Left In: 130.631+/-0.042 $\chi^2$/NDF:279021.3/5

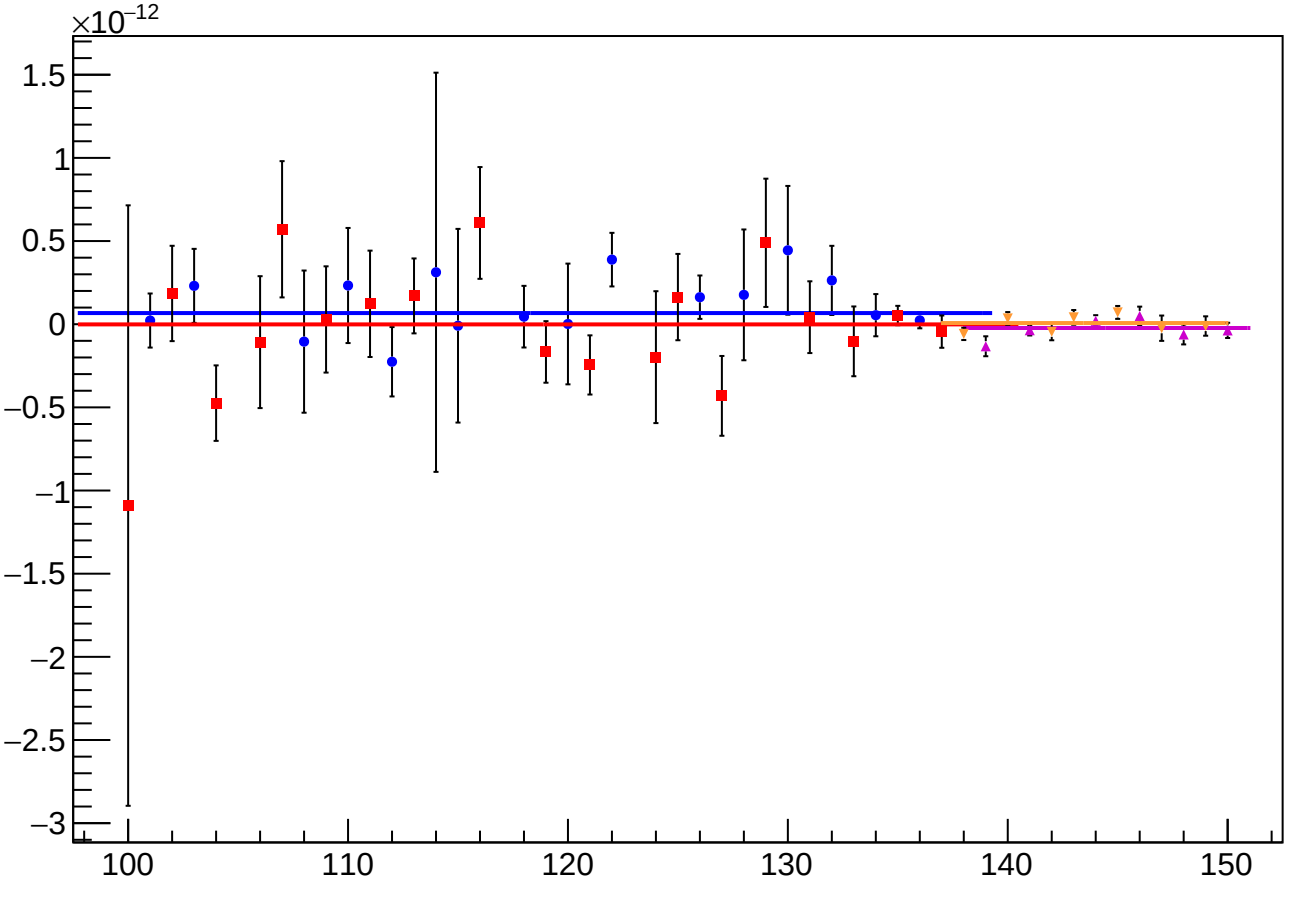
Left: 128.823+/-0.029 $\chi^2$/NDF: 476412.4/12

Right: 128.888+/-0.026 $\chi^2$/NDF: 3693688.1/34

In: 129.359+/-0.027 $\chi^2$/NDF:2085700.8/21

Out: 128.384+/-0.027 $\chi^2$/NDF:2083756.8/25

All: 128.859+/-0.019 $\chi^2$/NDF: 4170103.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.4/5

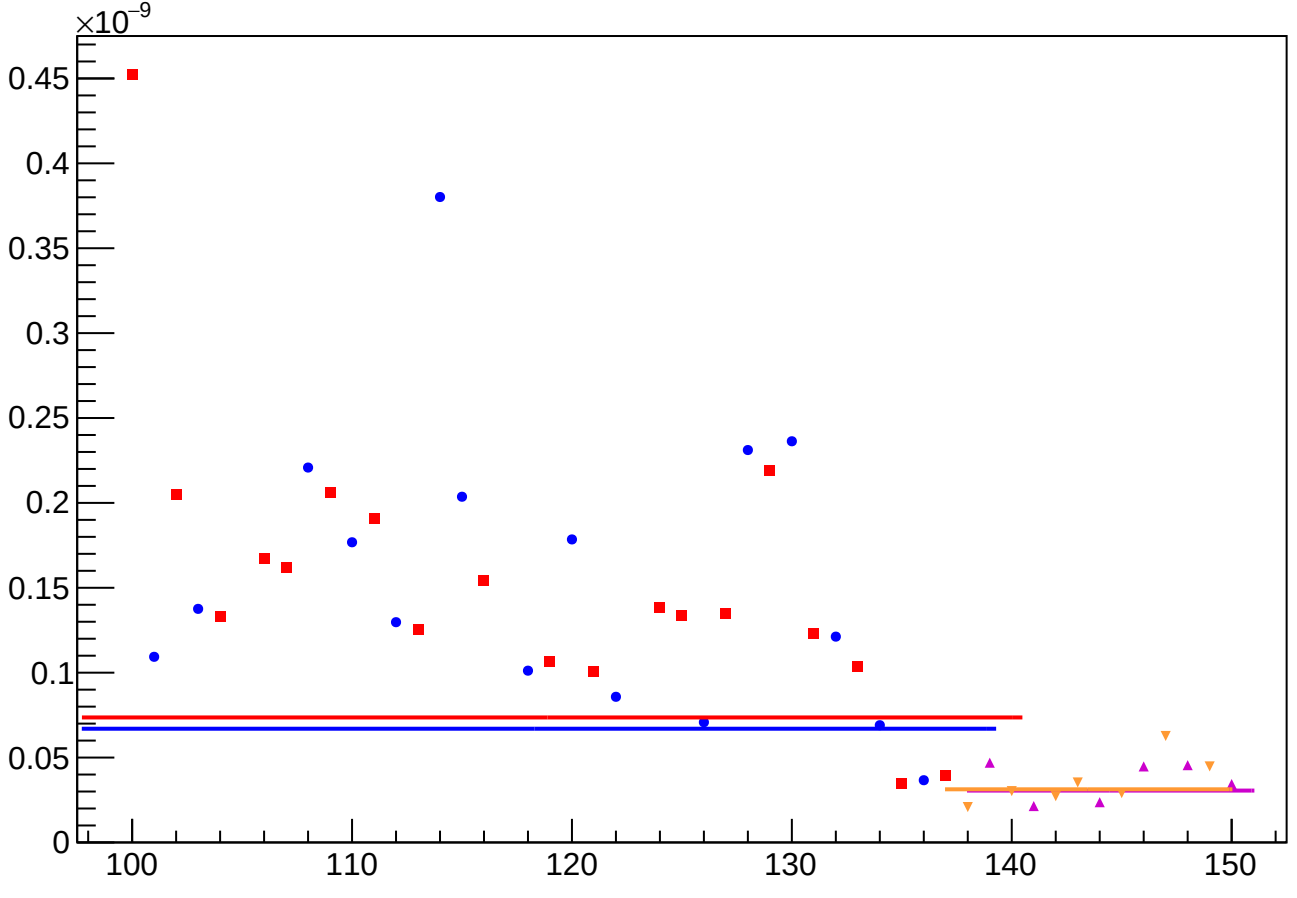
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 32.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 52.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3180725.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:645427.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3653663.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:668426.4/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1315707.9/12

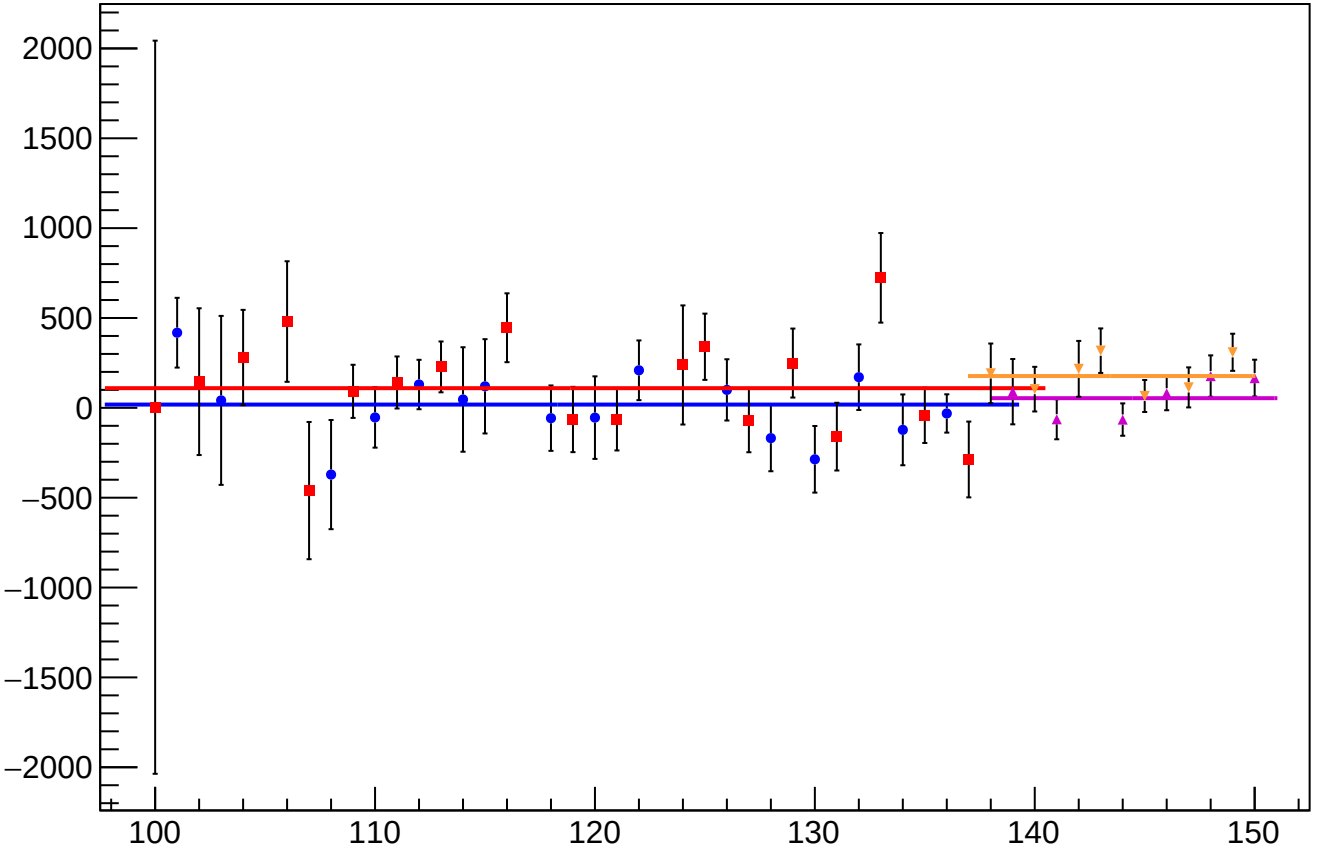
Right: 0.000+/-0.000 $\chi^2$/NDF: 6865290.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:5495046.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6244459.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11740338.0/47

# reg_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.204+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 176.941+/-44.350 $\chi^2$/NDF:5.2/6

Right Out: 109.432+/-45.825 $\chi^2$/NDF: 25.5/18

Left In: 53.721+/-43.964 $\chi^2$/NDF:5.3/5

Left: 114.792+/-31.223 $\chi^2$/NDF: 14.4/12

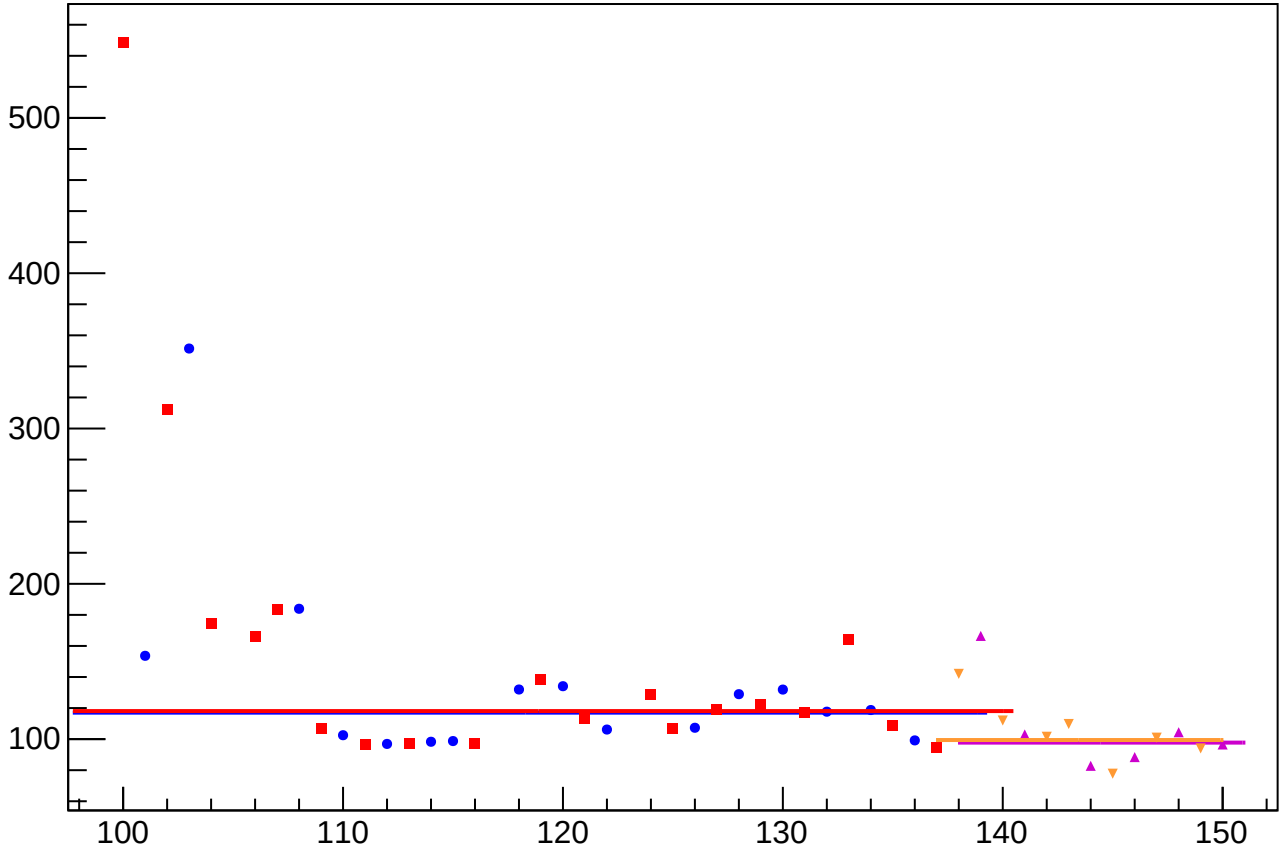
Right: 63.698+/-32.360 $\chi^2$/NDF: 41.3/34

In: 36.651+/-31.685 $\chi^2$/NDF:19.5/21

Out: 144.290+/-31.869 $\chi^2$/NDF:31.8/25

All: 90.159+/-22.469 $\chi^2$/NDF: 57.0/47

# reg_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858400.8/15

Left Out: 99.416+/-0.031 $\chi^2$/NDF:290910.9/6

Right Out: 118.057+/-0.032 $\chi^2$/NDF: 990748.0/18

Left In: 97.760+/-0.031 $\chi^2$/NDF:371853.0/5

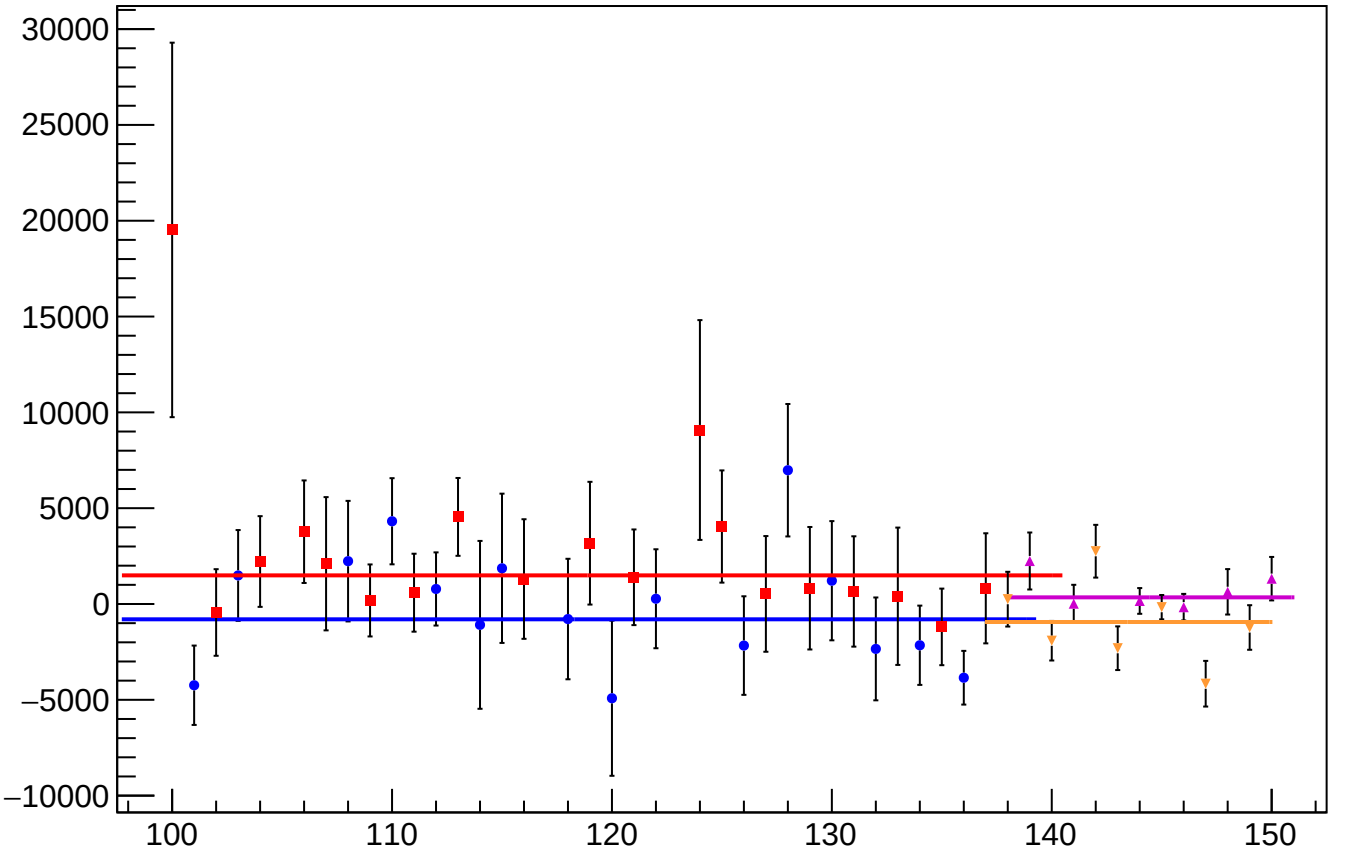
Left: 98.581+/-0.022 $\chi^2$/NDF: 664169.9/12

Right: 117.559+/-0.023 $\chi^2$/NDF: 1849621.4/34

In: 107.037+/-0.022 $\chi^2$/NDF:1415532.8/21

Out: 108.432+/-0.023 $\chi^2$/NDF:1452551.4/25

All: 107.731+/-0.016 $\chi^2$/NDF: 2870011.5/47




Right In: -799.133+/-616.009 $\chi^2$/NDF: 23.4/15

Left Out: -939.192+/-387.819 $\chi^2$/NDF:19.1/6

Right Out: 1493.897+/-613.097 $\chi^2$/NDF: 12.9/18

Left In: 346.614+/-370.793 $\chi^2$/NDF:3.2/5

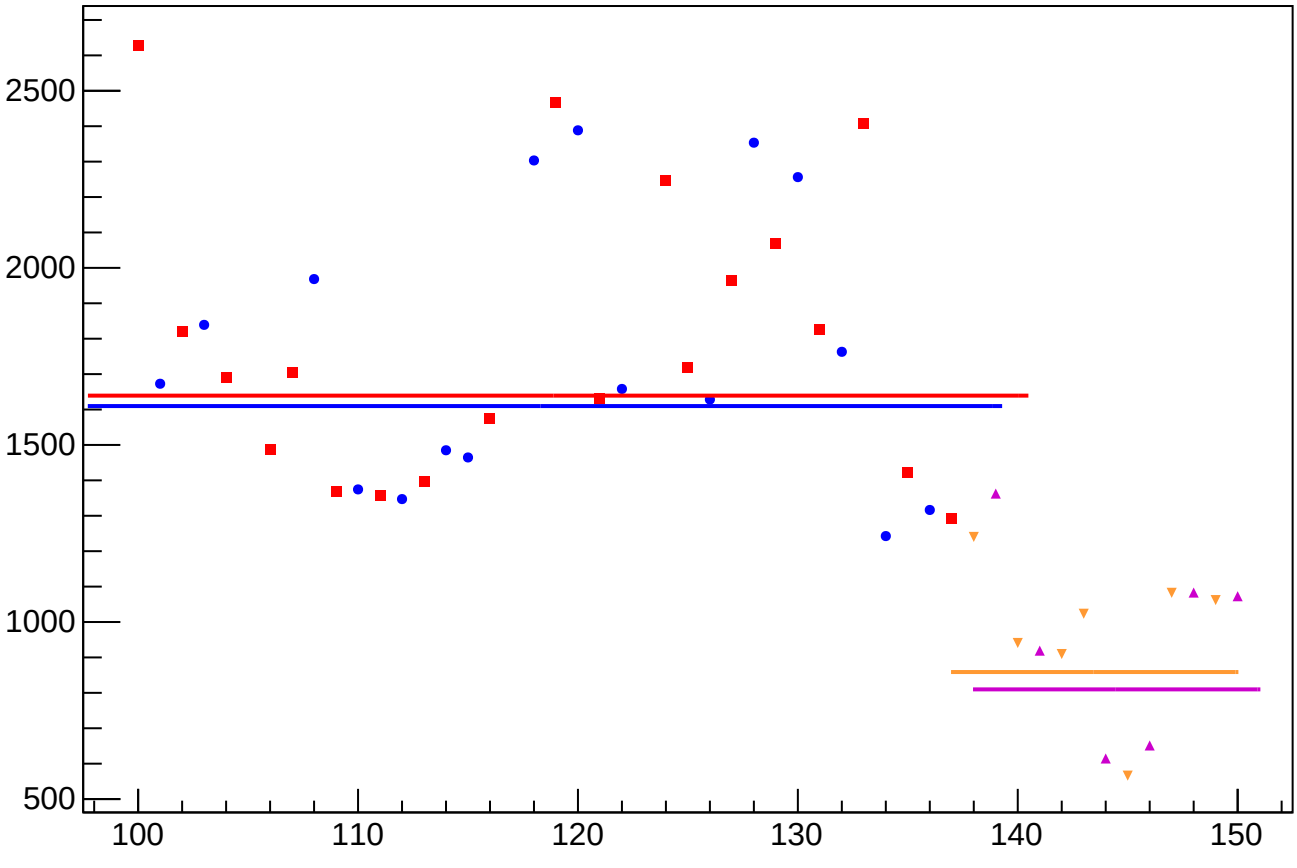
Left: -267.446+/-268.007 $\chi^2$/NDF: 28.0/12

Right: 352.815+/-434.551 $\chi^2$/NDF: 43.3/34

In: 41.895+/-317.682 $\chi^2$/NDF:29.1/21

Out: -243.864+/-327.752 $\chi^2$/NDF:43.2/25

All: -96.528+/-228.112 $\chi^2$/NDF: 72.8/47




Right In: 1609.782+/-0.436 $\chi^2$/NDF: 619129.2/15

Left Out: 858.770+/-0.274 $\chi^2$/NDF:755516.3/6

Right Out: 1639.241+/-0.434 $\chi^2$/NDF: 520182.2/18

Left In: 809.753+/-0.262 $\chi^2$/NDF:788368.4/5

Left: 833.162+/-0.190 $\chi^2$/NDF: 1560576.7/12

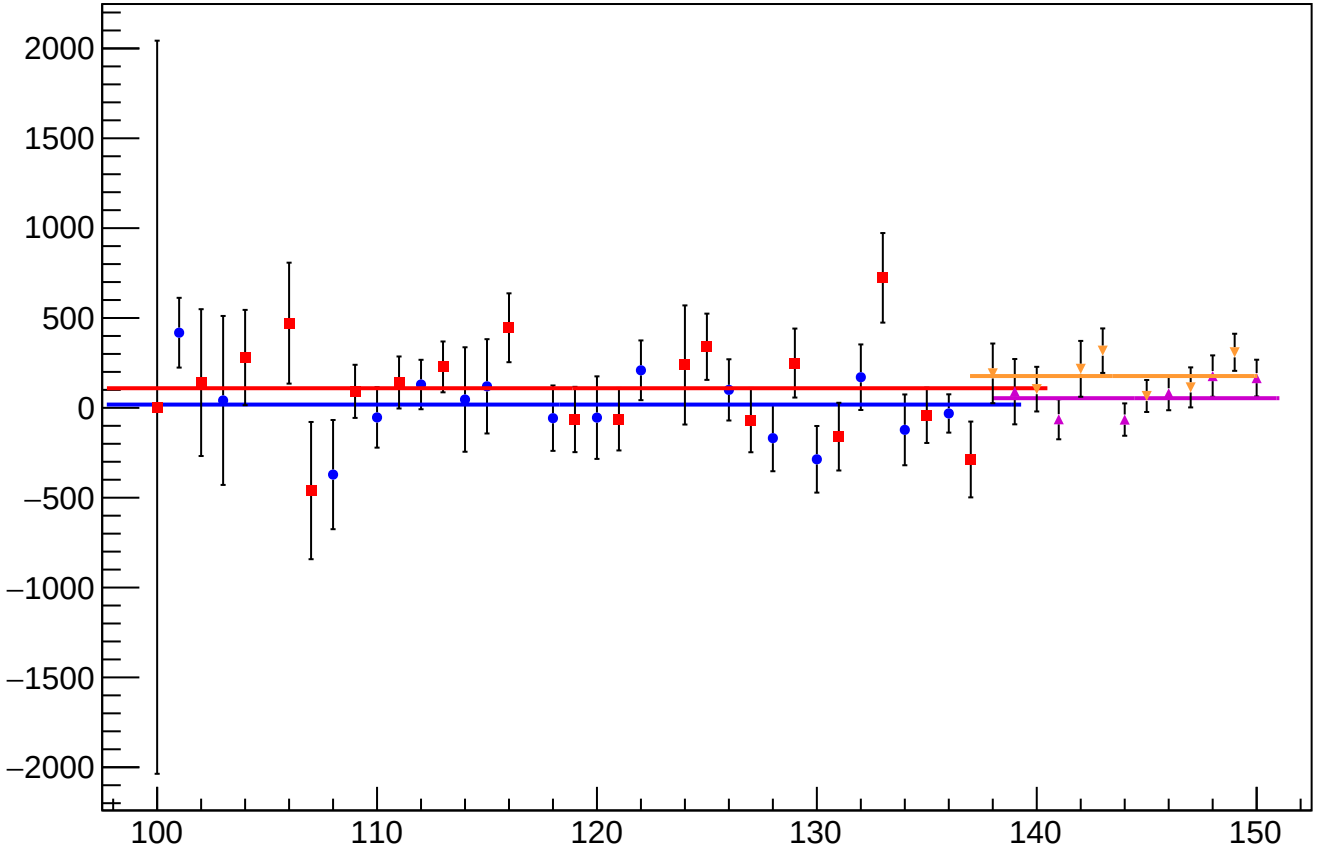
Right: 1624.581+/-0.307 $\chi^2$/NDF: 1141609.2/34

In: 1022.526+/-0.225 $\chi^2$/NDF:3883714.8/21

Out: 1081.813+/-0.232 $\chi^2$/NDF:3590517.0/25

All: 1051.245+/-0.161 $\chi^2$/NDF: 7507974.0/47

# cor_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 176.950+/-44.350 $\chi^2$/NDF:5.2/6

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: 53.722+/-43.964 $\chi^2$/NDF:5.3/5

Left: 114.797+/-31.223 $\chi^2$/NDF: 14.4/12

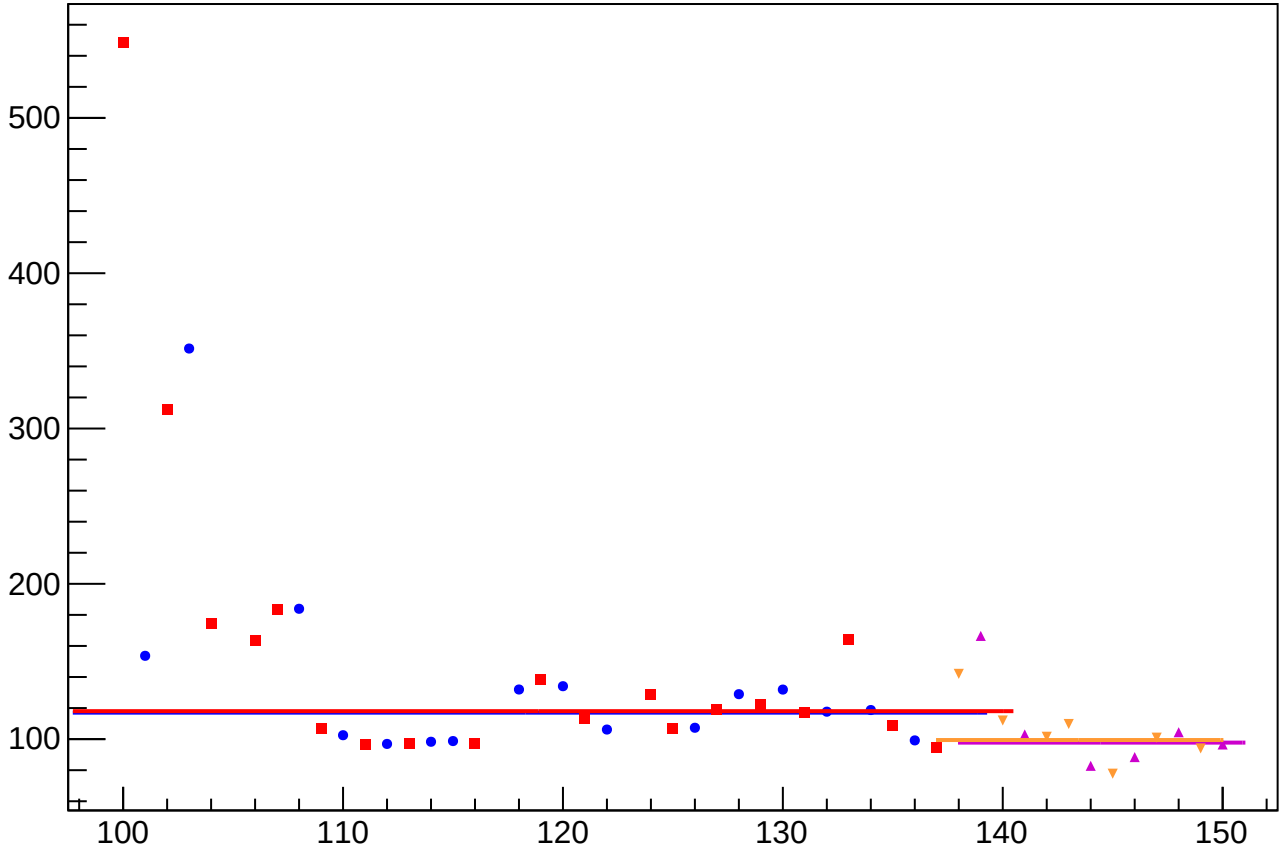
Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: 36.646+/-31.685 $\chi^2$/NDF:19.5/21

Out: 144.161+/-31.870 $\chi^2$/NDF:31.8/25

All: 90.090+/-22.470 $\chi^2$/NDF: 57.0/47

# cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 99.416+/-0.031 $\chi^2$/NDF:290910.9/6

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 97.760+/-0.031 $\chi^2$/NDF:371853.0/5

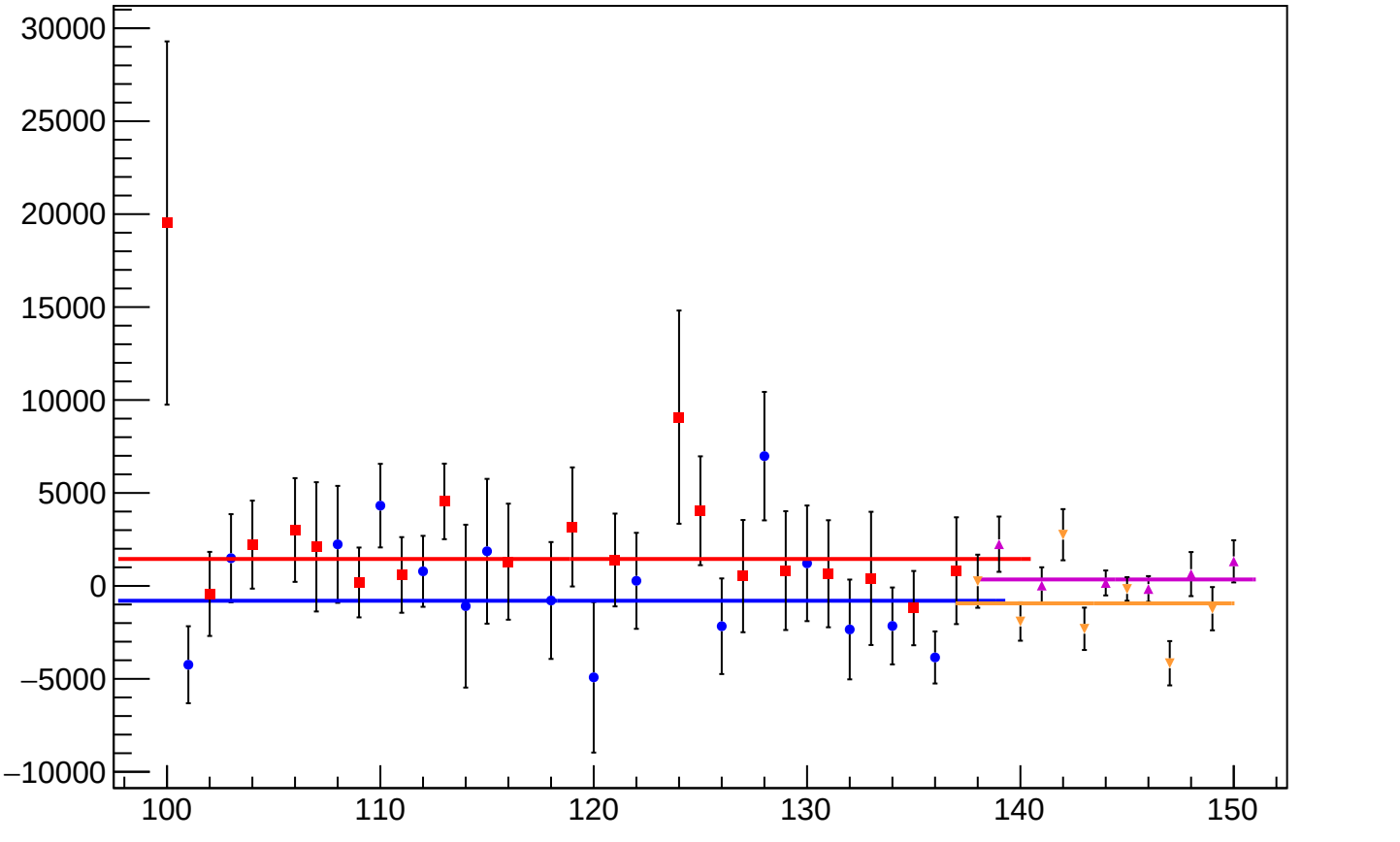
Left: 98.581+/-0.022 $\chi^2$/NDF: 664169.9/12

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 107.037+/-0.022 $\chi^2$/NDF:1415534.7/21

Out: 108.406+/-0.023 $\chi^2$/NDF:1447397.5/25

All: 107.718+/-0.016 $\chi^2$/NDF: 2864789.2/47




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -939.184+/-387.818 $\chi^2$/NDF:19.1/6

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 346.623+/-370.793 $\chi^2$/NDF:3.2/5

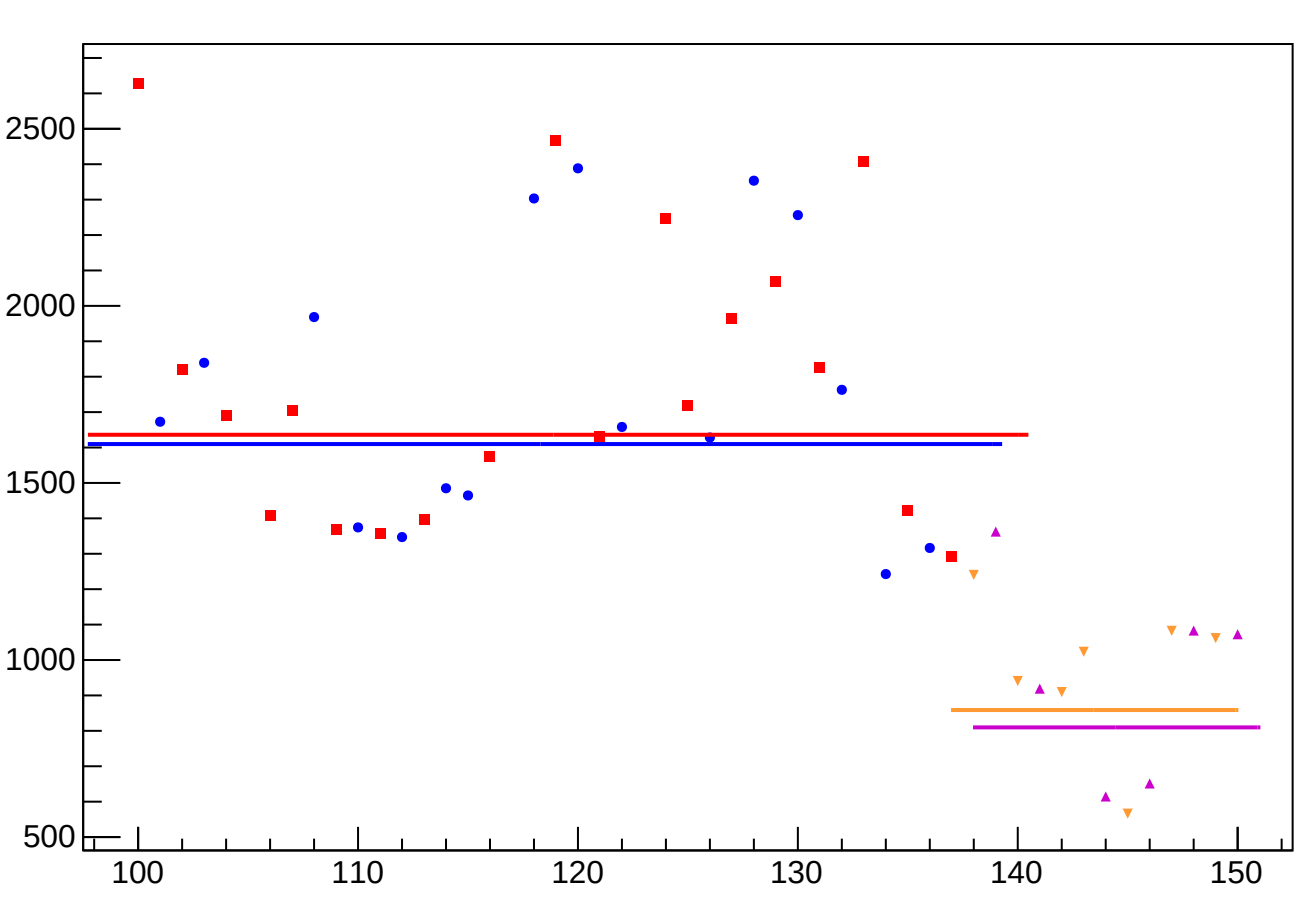
Left: -267.438+/-268.007 $\chi^2$/NDF: 28.0/12

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: 41.909+/-317.683 $\chi^2$/NDF:29.1/21

Out: -258.987+/-327.957 $\chi^2$/NDF:42.3/25

All: -103.752+/-228.181 $\chi^2$/NDF: 71.9/47




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 858.770+/-0.274 $\chi^2$/NDF:755516.3/6

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 809.752+/-0.262 $\chi^2$/NDF:788371.1/5

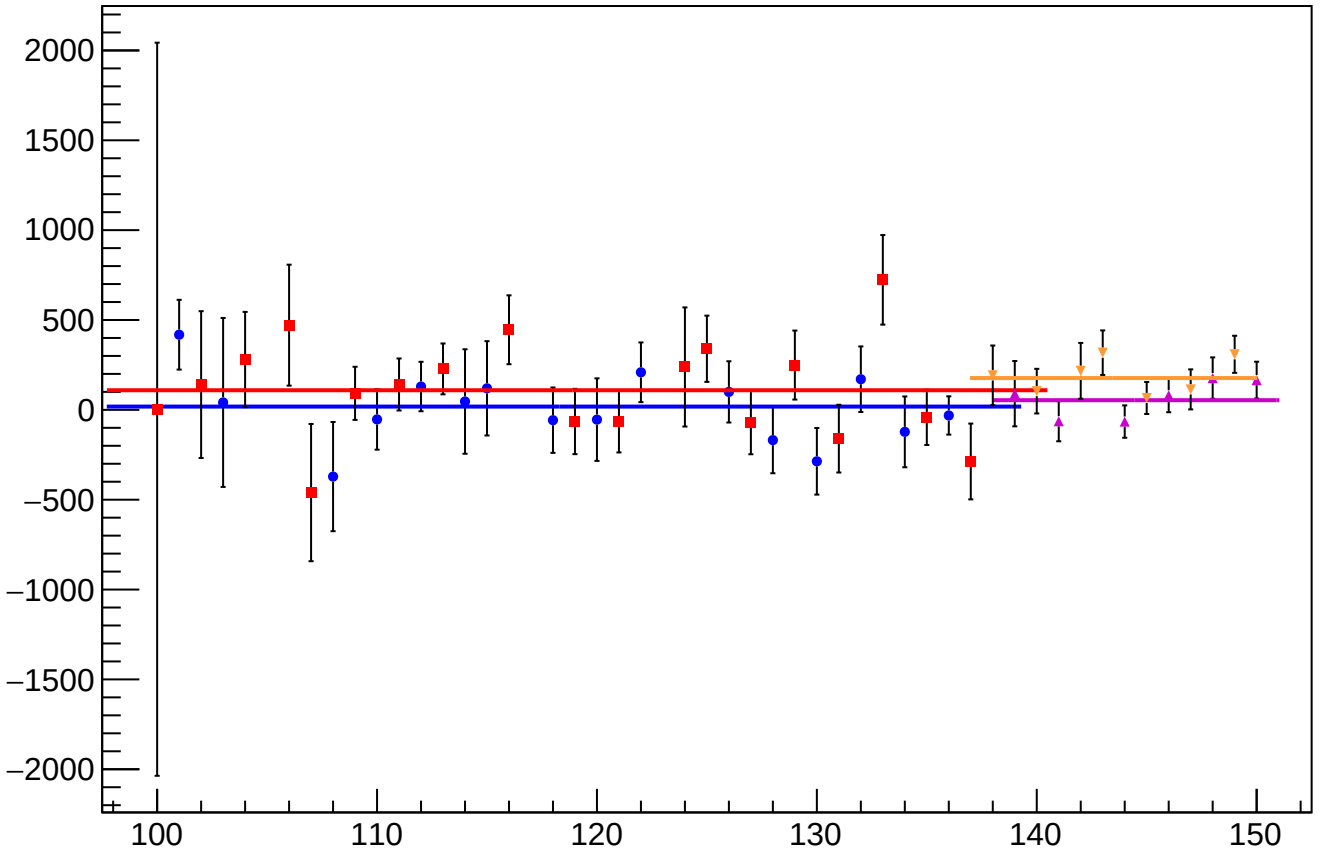
Left: 833.162+/-0.190 $\chi^2$/NDF: 1560579.4/12

Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 1022.526+/-0.225 $\chi^2$/NDF:3883779.4/21

Out: 1080.204+/-0.232 $\chi^2$/NDF:3572048.1/25

All: 1050.447+/-0.161 $\chi^2$/NDF: 7487742.8/47




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 176.950+/-44.350 $\chi^2$/NDF:5.2/6

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: 53.722+/-43.964 $\chi^2$/NDF:5.3/5

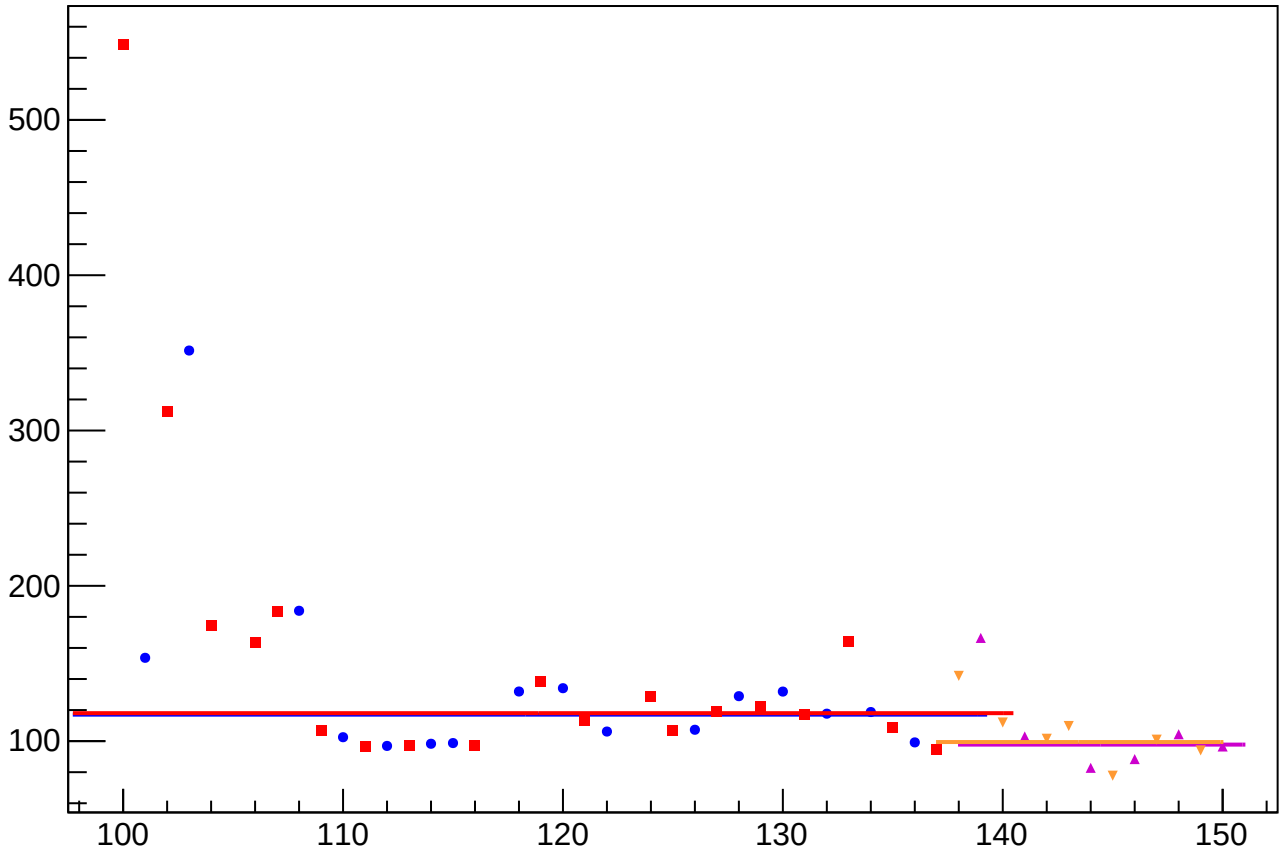
Left: 114.797+/-31.223 $\chi^2$/NDF: 14.4/12

Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: 36.646+/-31.685 $\chi^2$/NDF:19.5/21

Out: 144.161+/-31.870 $\chi^2$/NDF:31.8/25

All: 90.090+/-22.470 $\chi^2$/NDF: 57.0/47




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 99.416+/-0.031 $\chi^2$/NDF:290910.9/6

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 97.760+/-0.031 $\chi^2$/NDF:371853.0/5

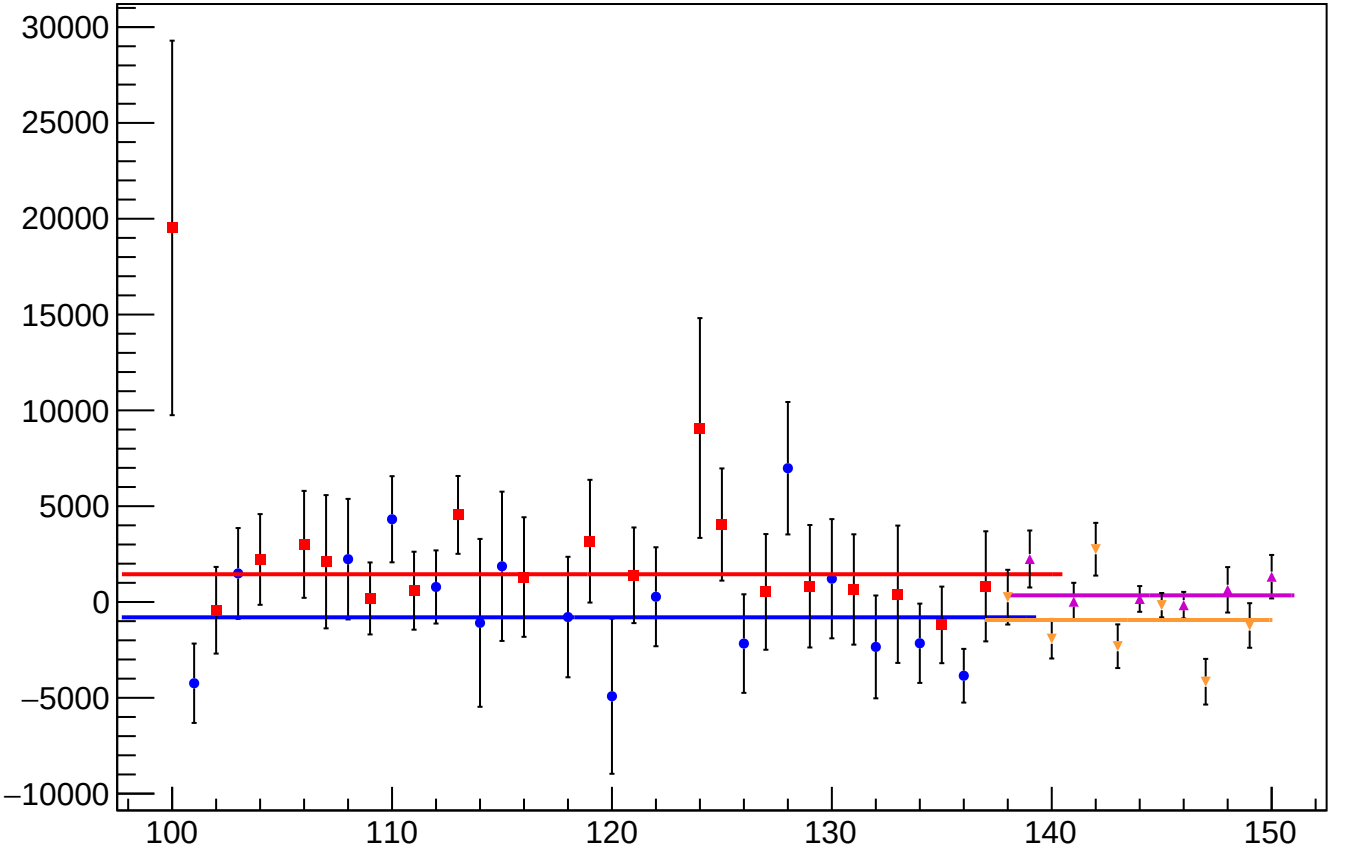
Left: 98.581+/-0.022 $\chi^2$/NDF: 664169.9/12

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 107.037+/-0.022 $\chi^2$/NDF:1415534.7/21

Out: 108.406+/-0.023 $\chi^2$/NDF:1447397.5/25

All: 107.718+/-0.016 $\chi^2$/NDF: 2864789.2/47




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -939.184+/-387.818 $\chi^2$/NDF:19.1/6

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 346.623+/-370.793 $\chi^2$/NDF:3.2/5

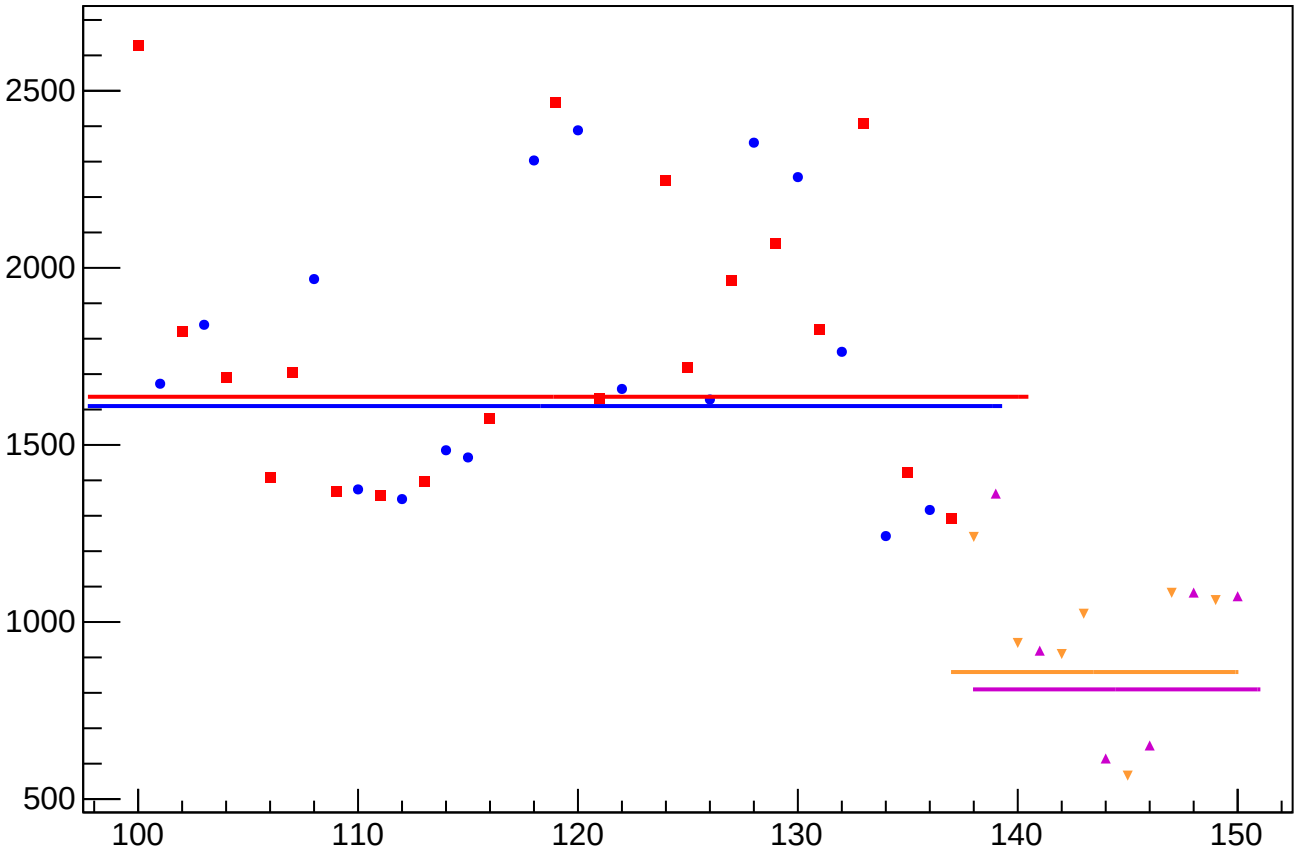
Left: -267.438+/-268.007 $\chi^2$/NDF: 28.0/12

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: 41.909+/-317.683 $\chi^2$/NDF:29.1/21

Out: -258.987+/-327.957 $\chi^2$/NDF:42.3/25

All: -103.752+/-228.181 $\chi^2$/NDF: 71.9/47




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 858.770+/-0.274 $\chi^2$/NDF:755516.3/6

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 809.752+/-0.262 $\chi^2$/NDF:788371.1/5

Left: 833.162+/-0.190 $\chi^2$/NDF: 1560579.4/12

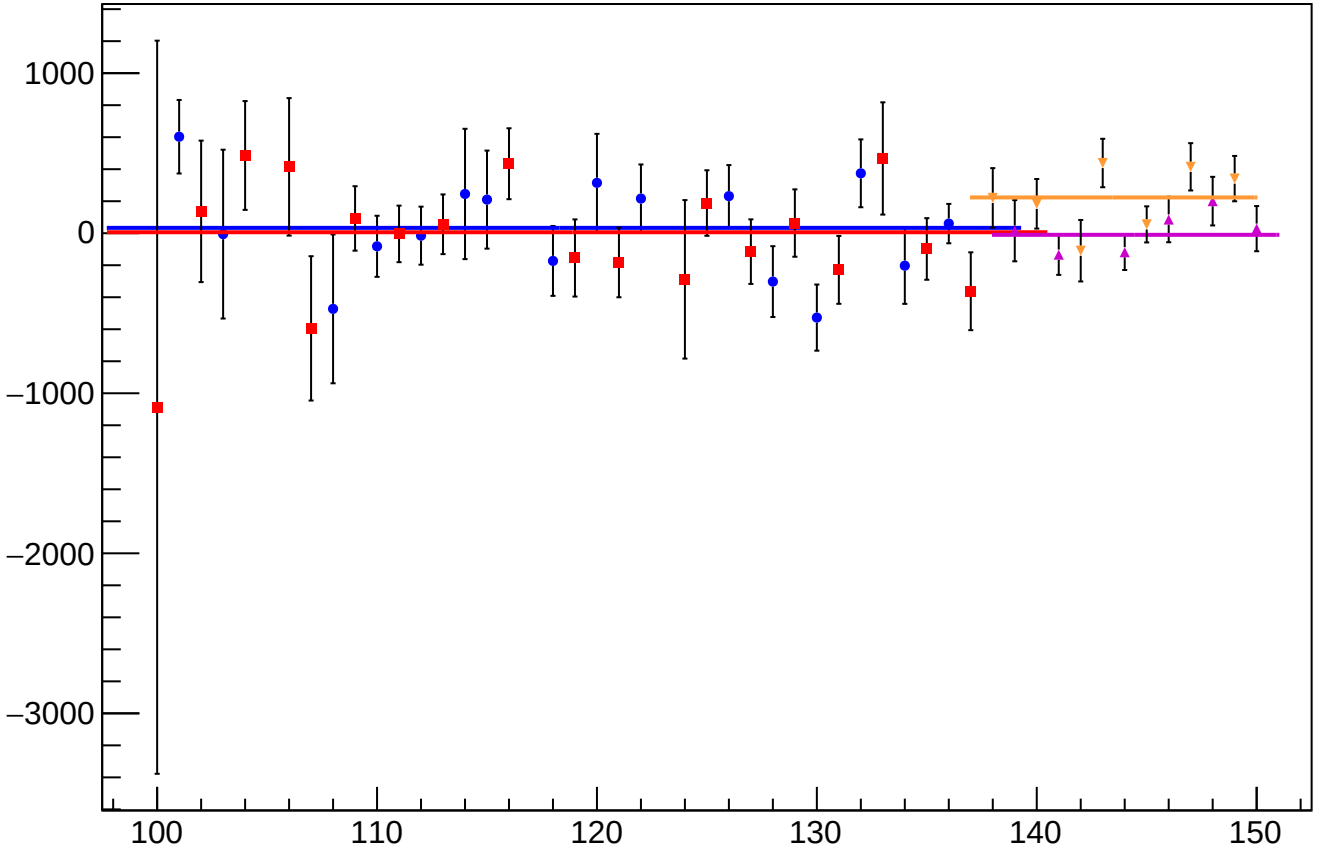
Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 1022.526+/-0.225 $\chi^2$/NDF:3883779.4/21

Out: 1080.204+/-0.232 $\chi^2$/NDF:3572048.1/25

All: 1050.447+/-0.161 $\chi^2$/NDF: 7487742.8/47

# dit_asym_sam3_mean vs Slug, Sign Corrected




Right In: 33.471+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 223.584+/-56.291 $\chi^2$/NDF:9.7/6

Right Out: 6.107+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: -10.057+/-56.442 $\chi^2$/NDF:4.4/5

Left: 107.076+/-39.857 $\chi^2$/NDF: 22.7/12

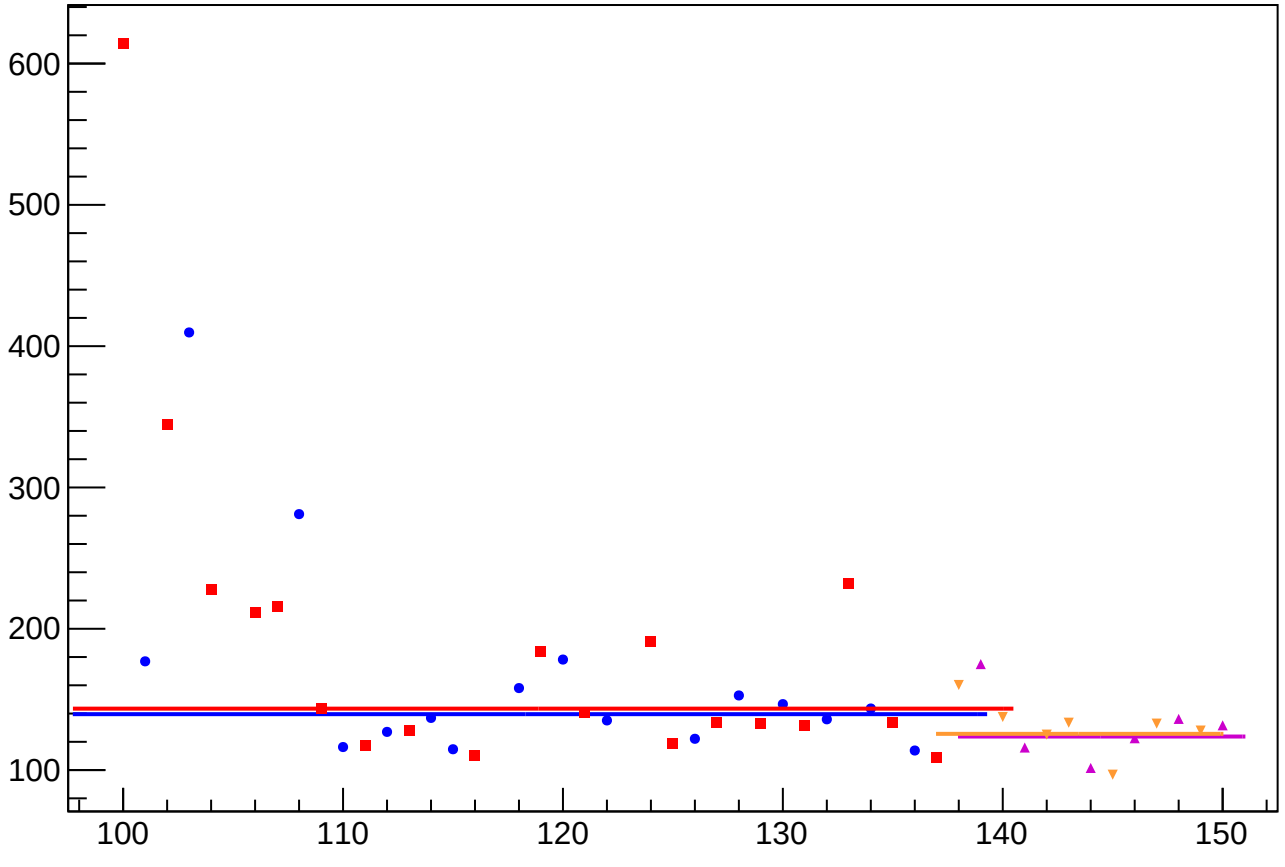
Right: 20.080+/-39.237 $\chi^2$/NDF: 42.6/34

In: 12.307+/-39.357 $\chi^2$/NDF:29.9/21

Out: 114.456+/-39.733 $\chi^2$/NDF:34.5/25

All: 62.896+/-27.961 $\chi^2$/NDF: 67.7/47

# dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.566+/-0.039 $\chi^2$/NDF: 976734.6/15

Left Out: 125.639+/-0.040 $\chi^2$/NDF:223116.8/6

Right Out: 143.479+/-0.040 $\chi^2$/NDF: 1116671.9/18

Left In: 123.744+/-0.040 $\chi^2$/NDF:251247.5/5

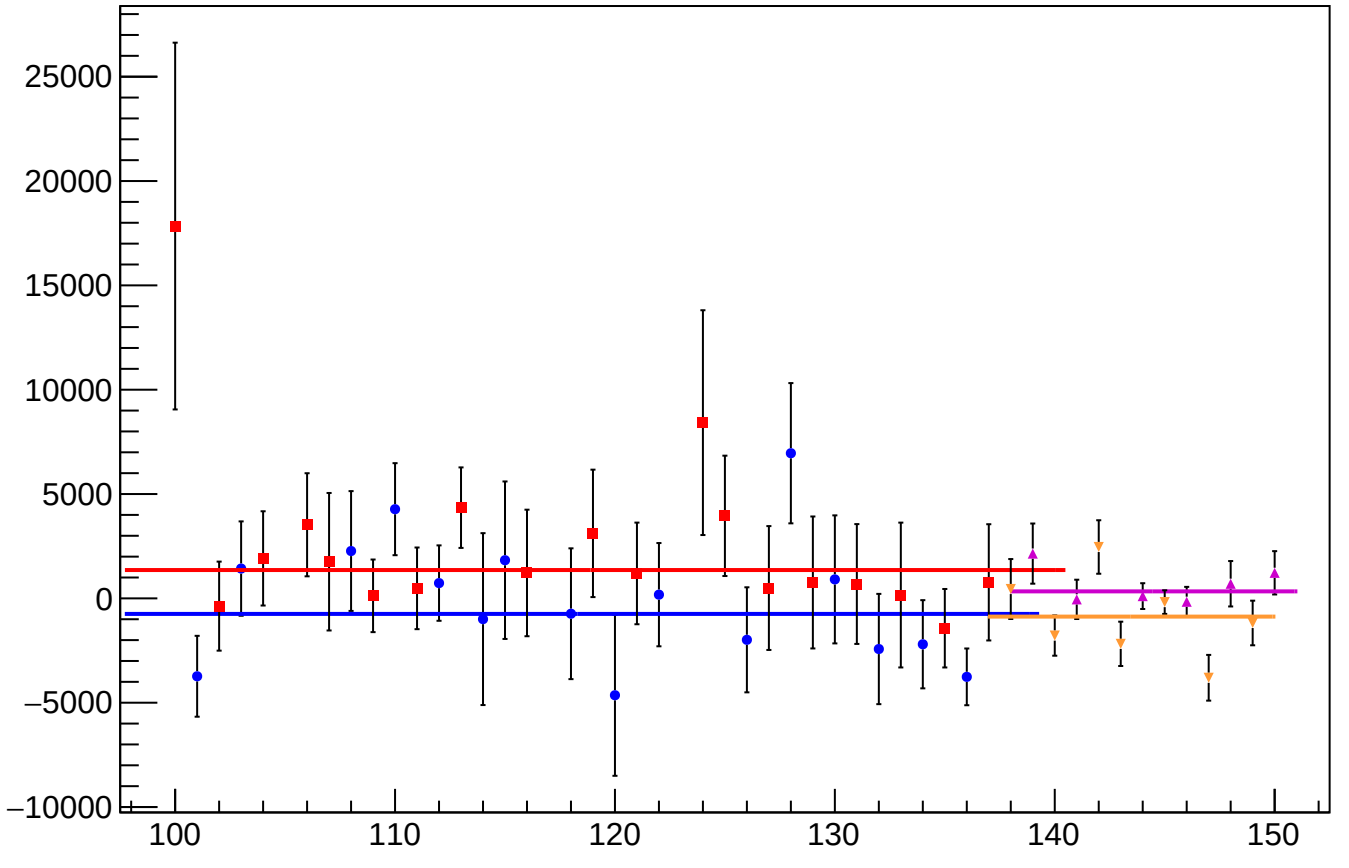
Left: 124.694+/-0.028 $\chi^2$/NDF: 475493.9/12

Right: 141.481+/-0.028 $\chi^2$/NDF: 2098376.6/34

In: 131.873+/-0.028 $\chi^2$/NDF:1308731.5/21

Out: 134.591+/-0.028 $\chi^2$/NDF:1440596.7/25

All: 133.219+/-0.020 $\chi^2$/NDF: 2754050.8/47




Right In: -744.681+/-595.810 $\chi^2$/NDF: 23.5/15

Left Out: -873.502+/-356.170 $\chi^2$/NDF:18.8/6

Right Out: 1357.874+/-585.808 $\chi^2$/NDF: 13.5/18

Left In: 335.445+/-354.194 $\chi^2$/NDF:3.2/5

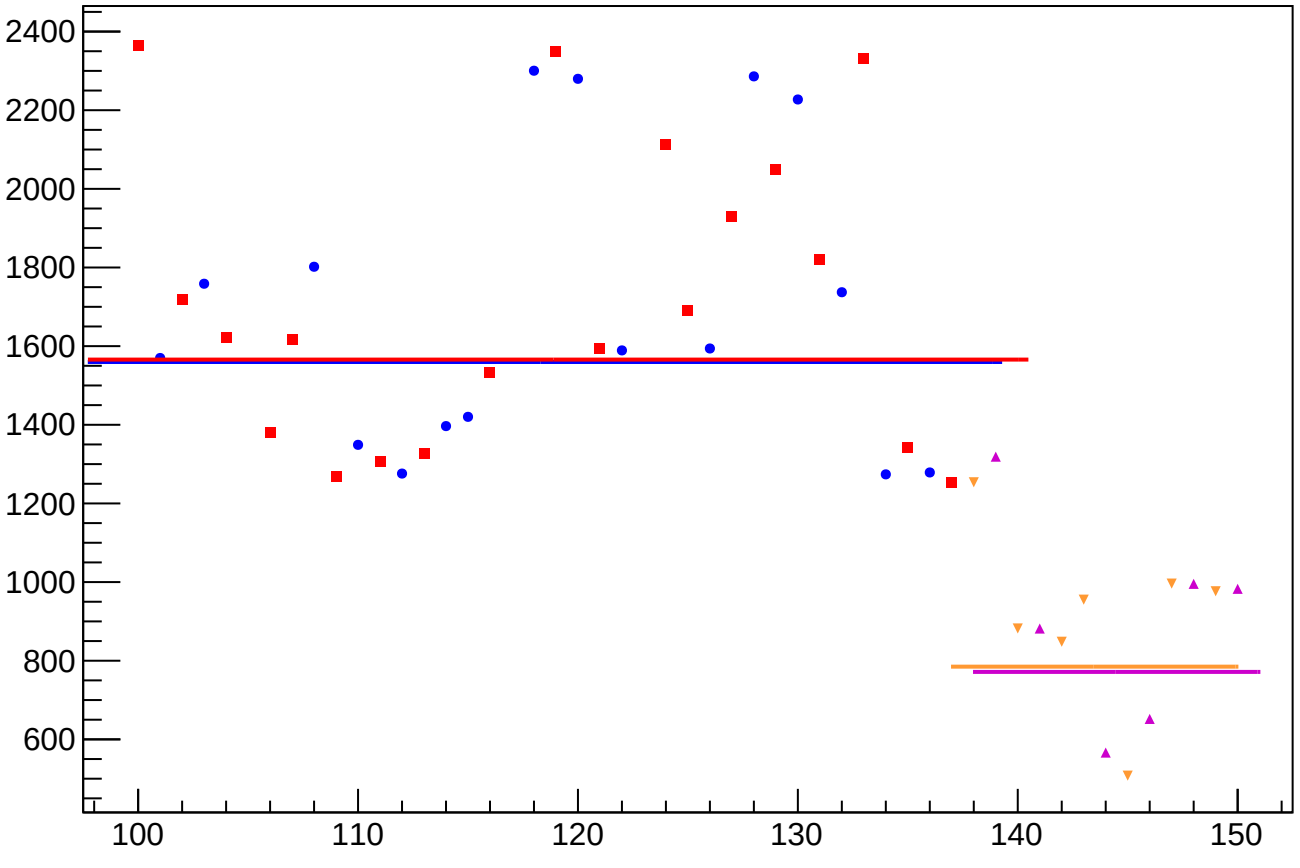
Left: -265.664+/-251.149 $\chi^2$/NDF: 27.8/12

Right: 324.392+/-417.720 $\chi^2$/NDF: 43.3/34

In: 53.402+/-304.458 $\chi^2$/NDF:29.1/21

Out: -271.269+/-304.335 $\chi^2$/NDF:42.9/25

All: -108.999+/-215.241 $\chi^2$/NDF: 72.6/47




Right In: 1559.735+/-0.421 $\chi^2$/NDF: 604209.5/15

Left Out: 784.936+/-0.252 $\chi^2$/NDF:908204.3/6

Right Out: 1565.808+/-0.414 $\chi^2$/NDF: 563847.8/18

Left In: 771.567+/-0.250 $\chi^2$/NDF:760057.7/5

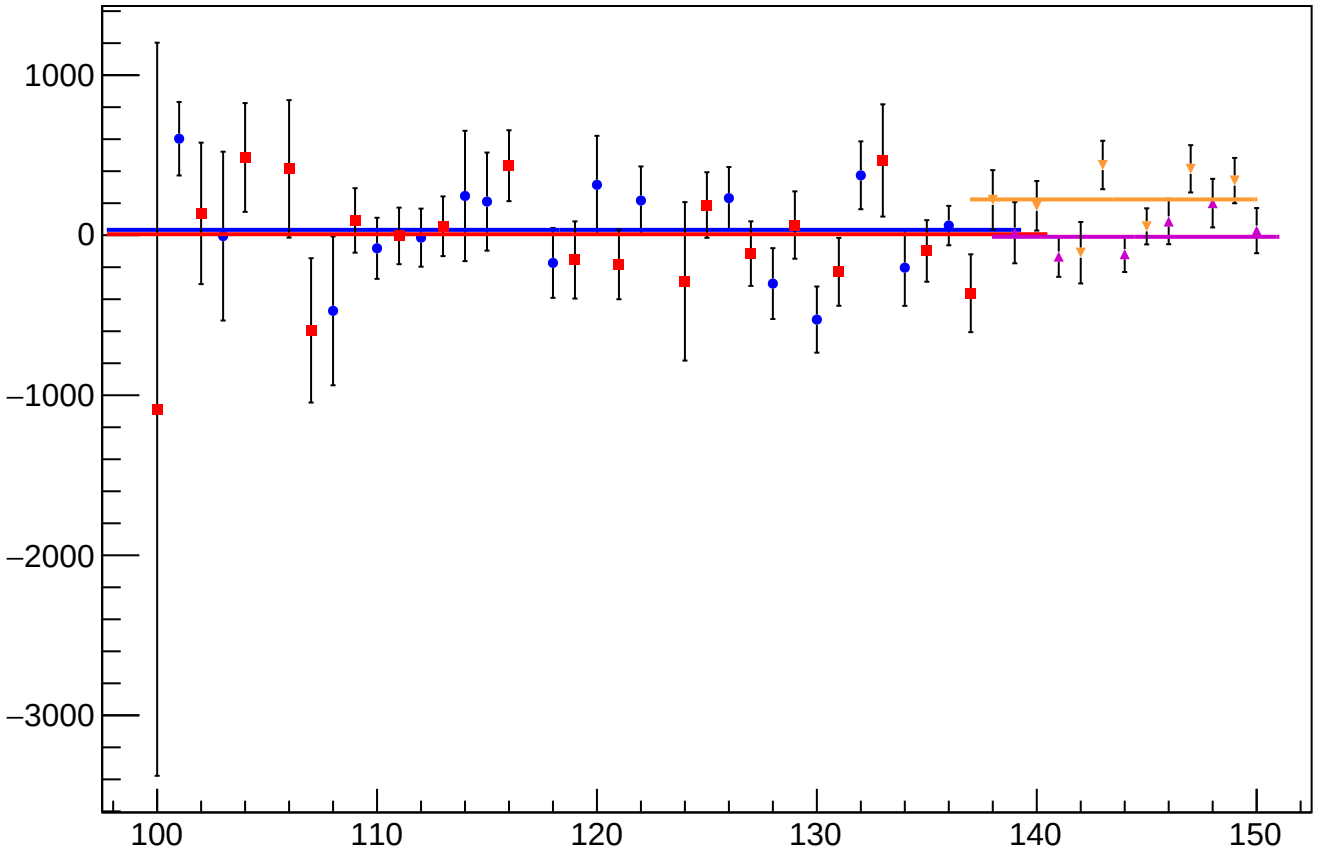
Left: 778.214+/-0.178 $\chi^2$/NDF: 1669678.8/12

Right: 1562.823+/-0.295 $\chi^2$/NDF: 1168163.0/34

In: 977.373+/-0.215 $\chi^2$/NDF:3950258.2/21

Out: 995.688+/-0.215 $\chi^2$/NDF:4066625.6/25

All: 986.534+/-0.152 $\chi^2$/NDF: 8020503.7/47




Right In: 33.469+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 223.583+/-56.291 $\chi^2$/NDF:9.7/6

Right Out: 6.103+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: -10.057+/-56.442 $\chi^2$/NDF:4.4/5

Left: 107.075+/-39.857 $\chi^2$/NDF: 22.7/12

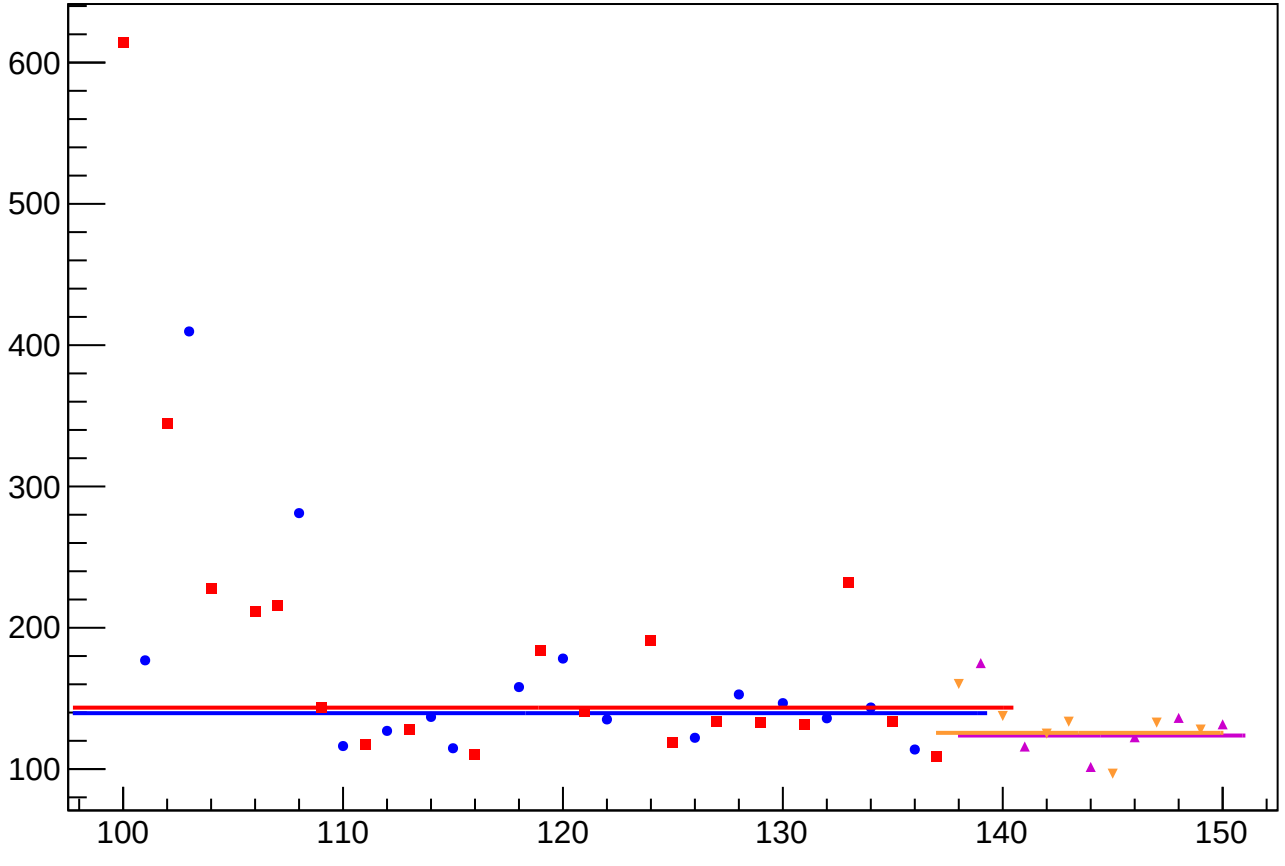
Right: 20.078+/-39.237 $\chi^2$/NDF: 42.6/34

In: 12.306+/-39.357 $\chi^2$/NDF:29.9/21

Out: 114.453+/-39.733 $\chi^2$/NDF:34.5/25

All: 62.894+/-27.962 $\chi^2$/NDF: 67.7/47

# eigen_dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.567+/-0.039 $\chi^2$/NDF: 976737.0/15

Left Out: 125.639+/-0.040 $\chi^2$/NDF:223120.3/6

Right Out: 143.480+/-0.040 $\chi^2$/NDF: 1116678.4/18

Left In: 123.745+/-0.040 $\chi^2$/NDF:251246.8/5

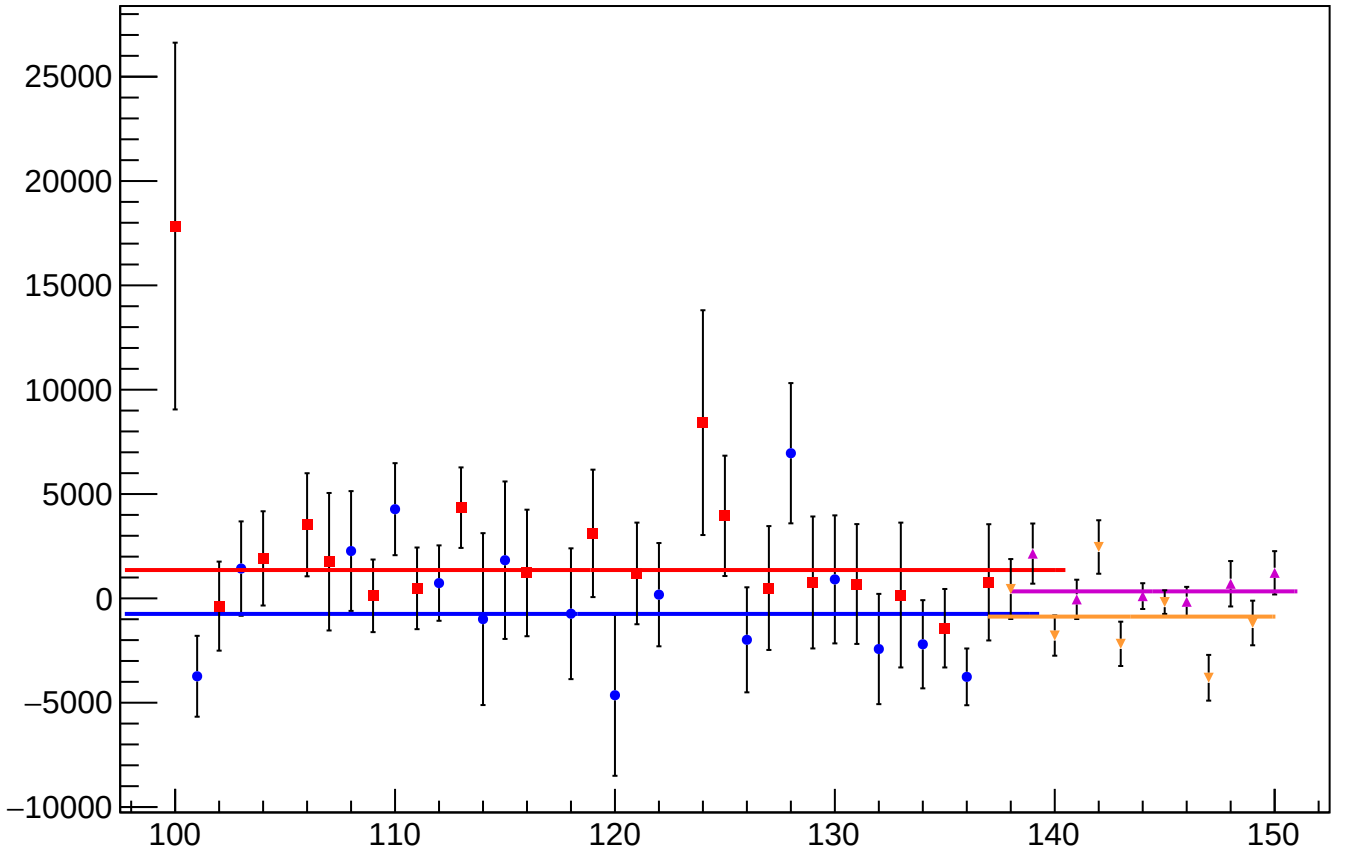
Left: 124.694+/-0.028 $\chi^2$/NDF: 475496.9/12

Right: 141.482+/-0.028 $\chi^2$/NDF: 2098386.0/34

In: 131.874+/-0.028 $\chi^2$/NDF:1308732.1/21

Out: 134.591+/-0.028 $\chi^2$/NDF:1440605.8/25

All: 133.220+/-0.020 $\chi^2$/NDF: 2754061.0/47




Right In: -744.678+/-595.809 $\chi^2$/NDF: 23.5/15

Left Out: -873.505+/-356.170 $\chi^2$/NDF:18.8/6

Right Out: 1357.874+/-585.807 $\chi^2$/NDF: 13.5/18

Left In: 335.444+/-354.193 $\chi^2$/NDF:3.2/5

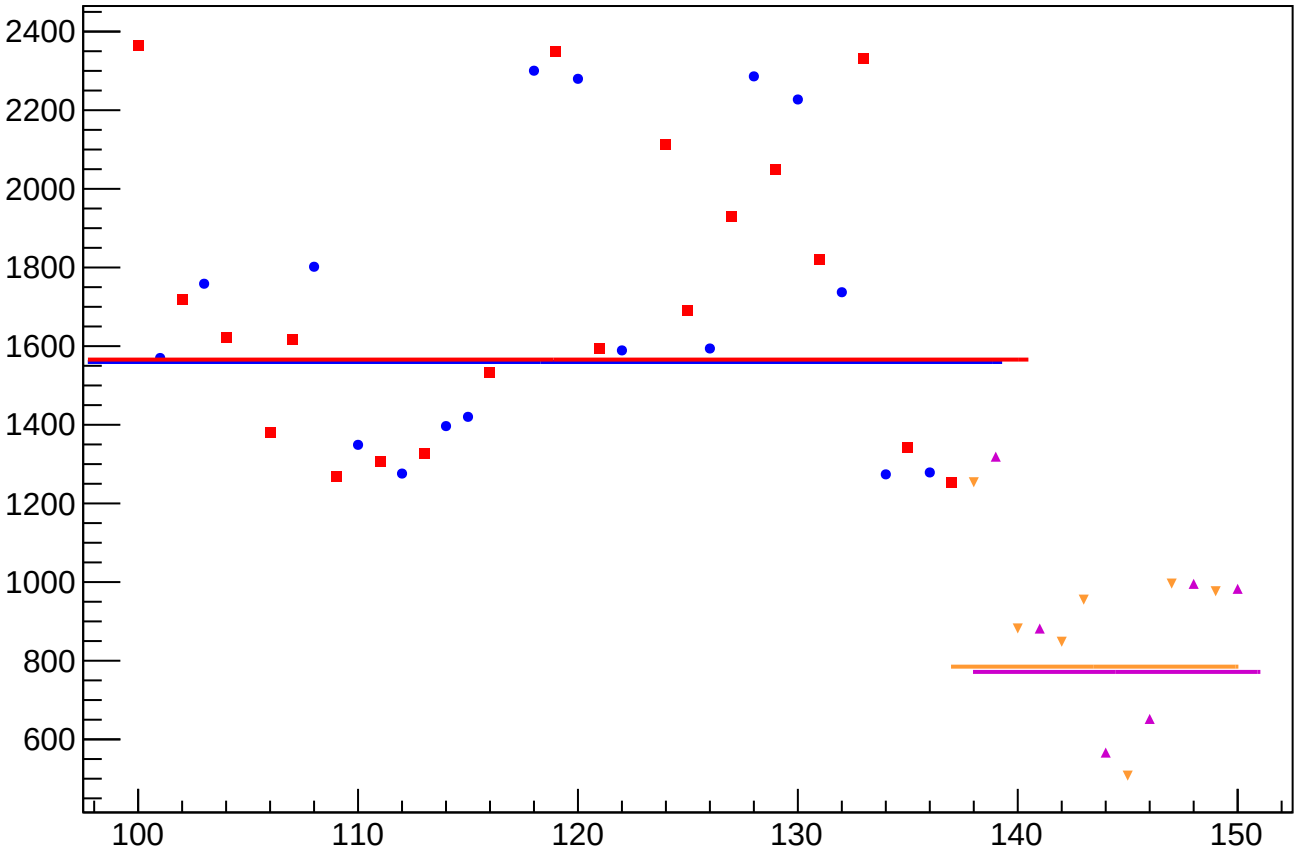
Left: -265.666+/-251.149 $\chi^2$/NDF: 27.8/12

Right: 324.394+/-417.720 $\chi^2$/NDF: 43.3/34

In: 53.402+/-304.458 $\chi^2$/NDF:29.1/21

Out: -271.271+/-304.334 $\chi^2$/NDF:42.9/25

All: -109.000+/-215.241 $\chi^2$/NDF: 72.6/47




Right In: 1559.734+/-0.421 $\chi^2$/NDF: 604209.8/15

Left Out: 784.935+/-0.252 $\chi^2$/NDF:908205.0/6

Right Out: 1565.806+/-0.414 $\chi^2$/NDF: 563845.7/18

Left In: 771.566+/-0.250 $\chi^2$/NDF:760058.7/5

Left: 778.213+/-0.178 $\chi^2$/NDF: 1669680.4/12

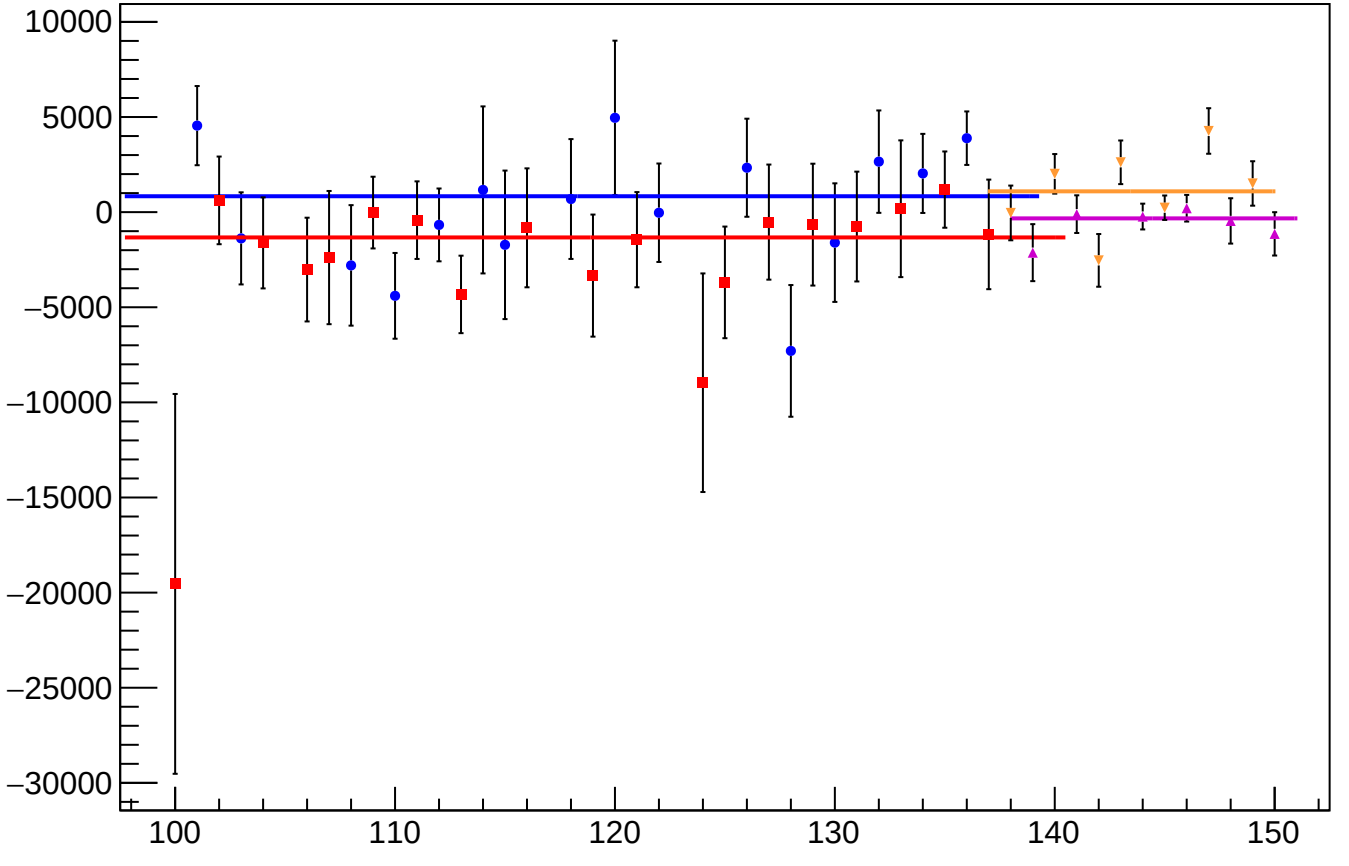
Right: 1562.821+/-0.295 $\chi^2$/NDF: 1168161.1/34

In: 977.372+/-0.215 $\chi^2$/NDF:3950258.7/21

Out: 995.687+/-0.215 $\chi^2$/NDF:4066621.5/25

All: 986.533+/-0.152 $\chi^2$/NDF: 8020500.1/47

# asym_sam3_mean vs Slug, Sign Corrected




Right In: 835.496+/-618.780 $\chi^2$/NDF: 24.9/15

Left Out: 1093.366+/-390.778 $\chi^2$/NDF:19.0/6

Right Out: -1329.538+/-616.428 $\chi^2$/NDF: 12.1/18

Left In: -328.180+/-373.822 $\chi^2$/NDF:2.6/5

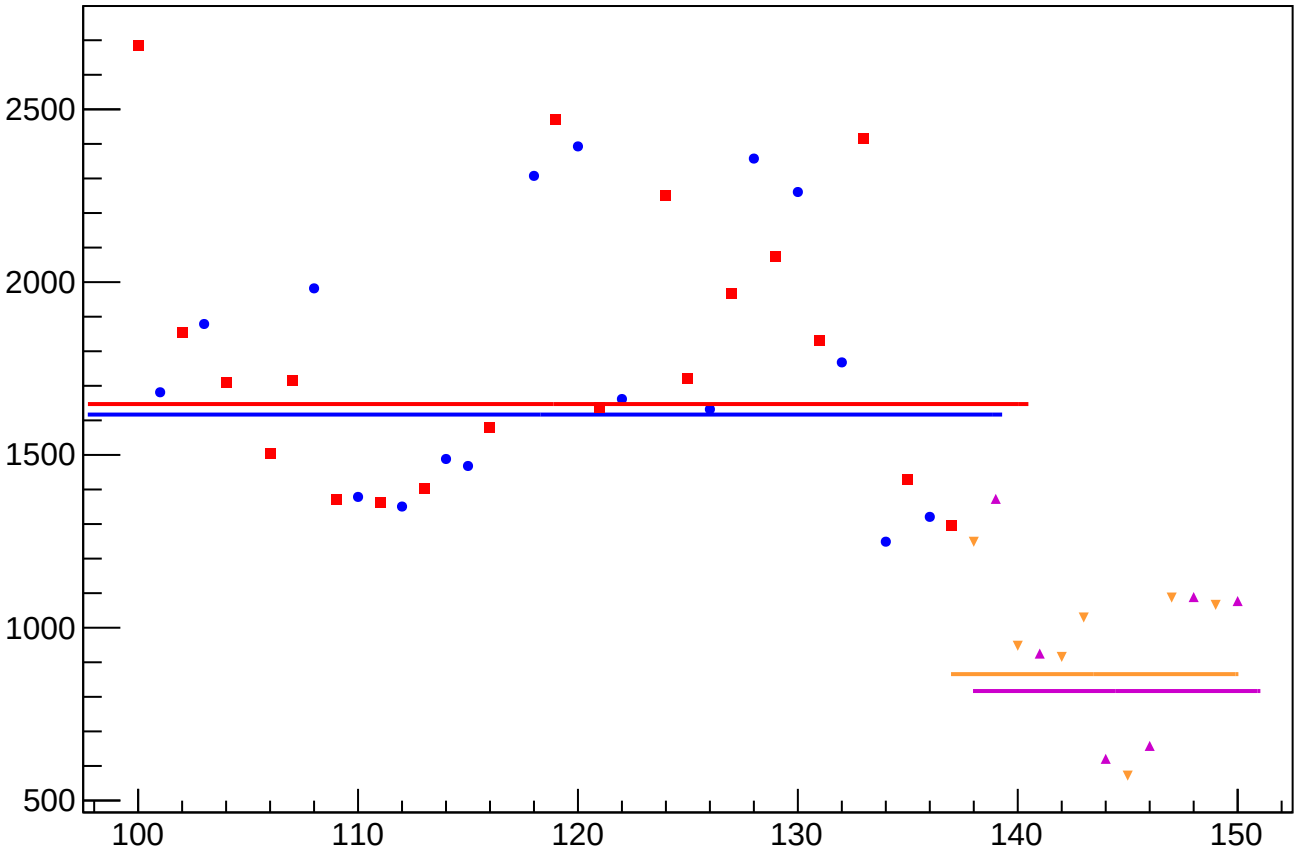
Left: 351.082+/-270.128 $\chi^2$/NDF: 28.5/12

Right: -251.145+/-436.710 $\chi^2$/NDF: 43.2/34

In: -17.033+/-319.965 $\chi^2$/NDF:30.1/21

Out: 398.786+/-330.046 $\chi^2$/NDF:42.1/25

All: 184.429+/-229.731 $\chi^2$/NDF: 73.1/47




Right In: 1616.804+/-0.438 $\chi^2$/NDF: 622271.0/15

Left Out: 865.729+/-0.276 $\chi^2$/NDF:743927.5/6

Right Out: 1647.227+/-0.436 $\chi^2$/NDF: 523860.9/18

Left In: 816.806+/-0.264 $\chi^2$/NDF:778440.4/5

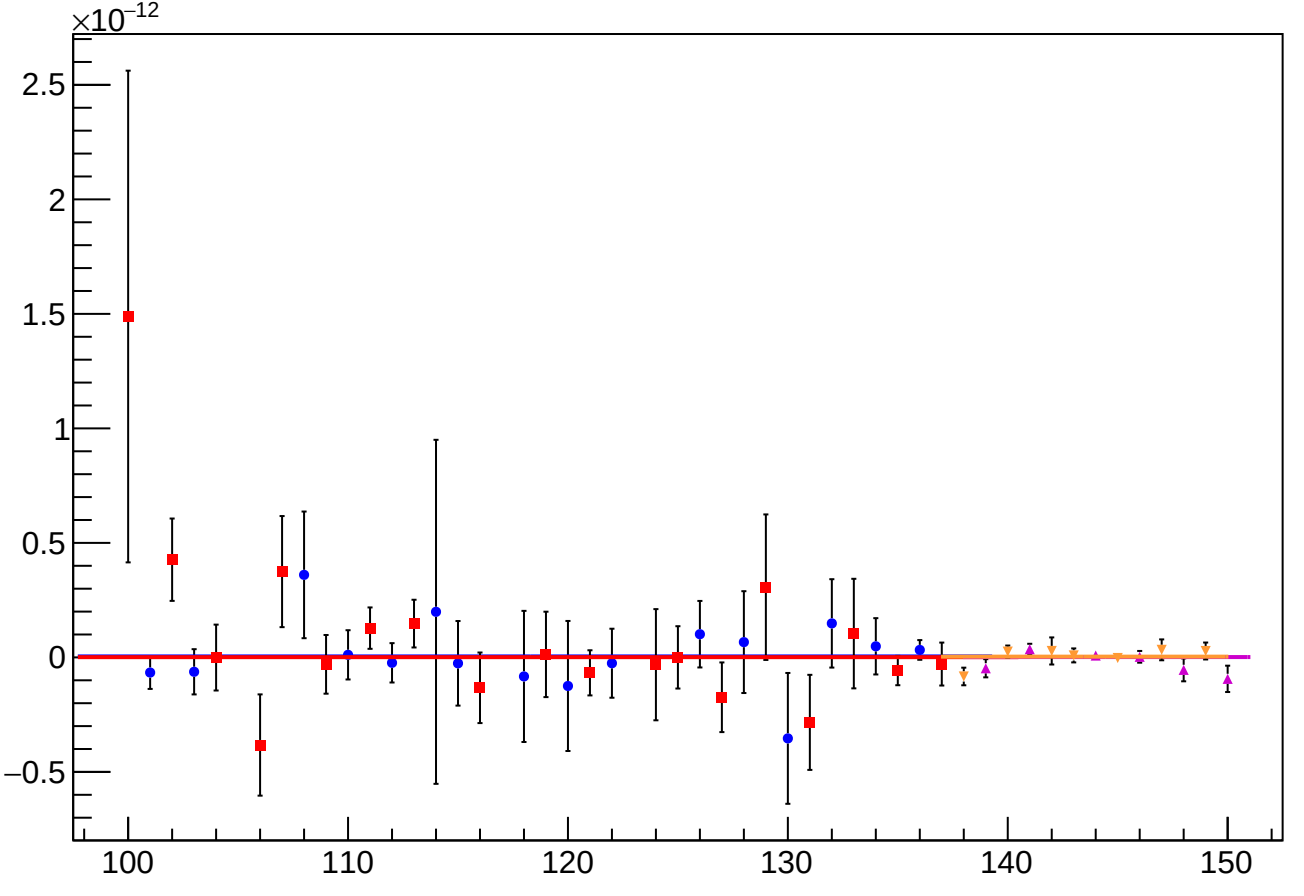
Left: 840.183+/-0.191 $\chi^2$/NDF: 1538736.2/12

Right: 1632.074+/-0.309 $\chi^2$/NDF: 1148558.3/34

In: 1030.711+/-0.226 $\chi^2$/NDF:3849845.4/21

Out: 1089.763+/-0.233 $\chi^2$/NDF:3560824.8/25

All: 1059.321+/-0.162 $\chi^2$/NDF: 7443674.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.7/5

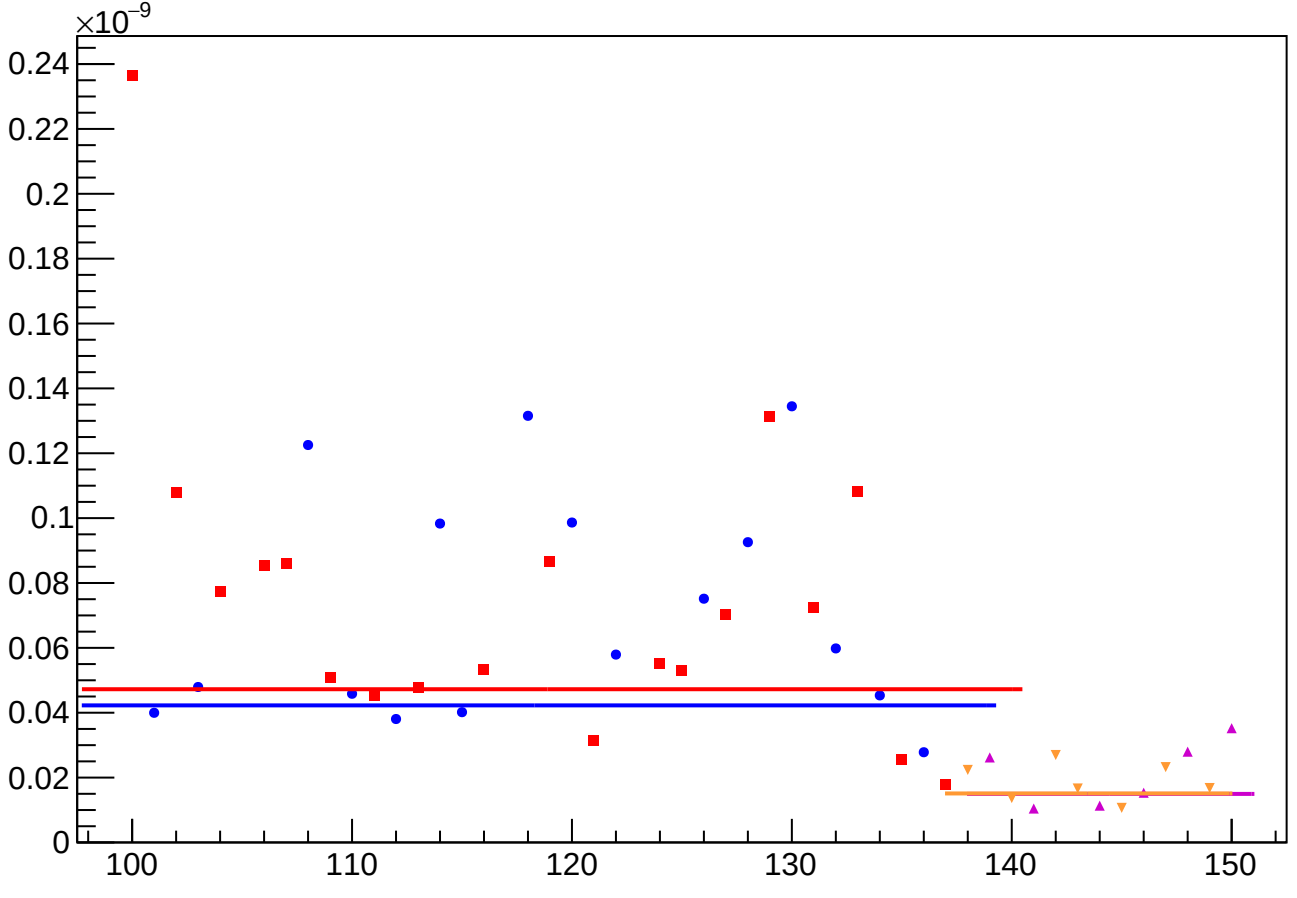
Left: 0.000+/-0.000 $\chi^2$/NDF: 14.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:14.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1147920.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:345943.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1410595.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:697145.0/5

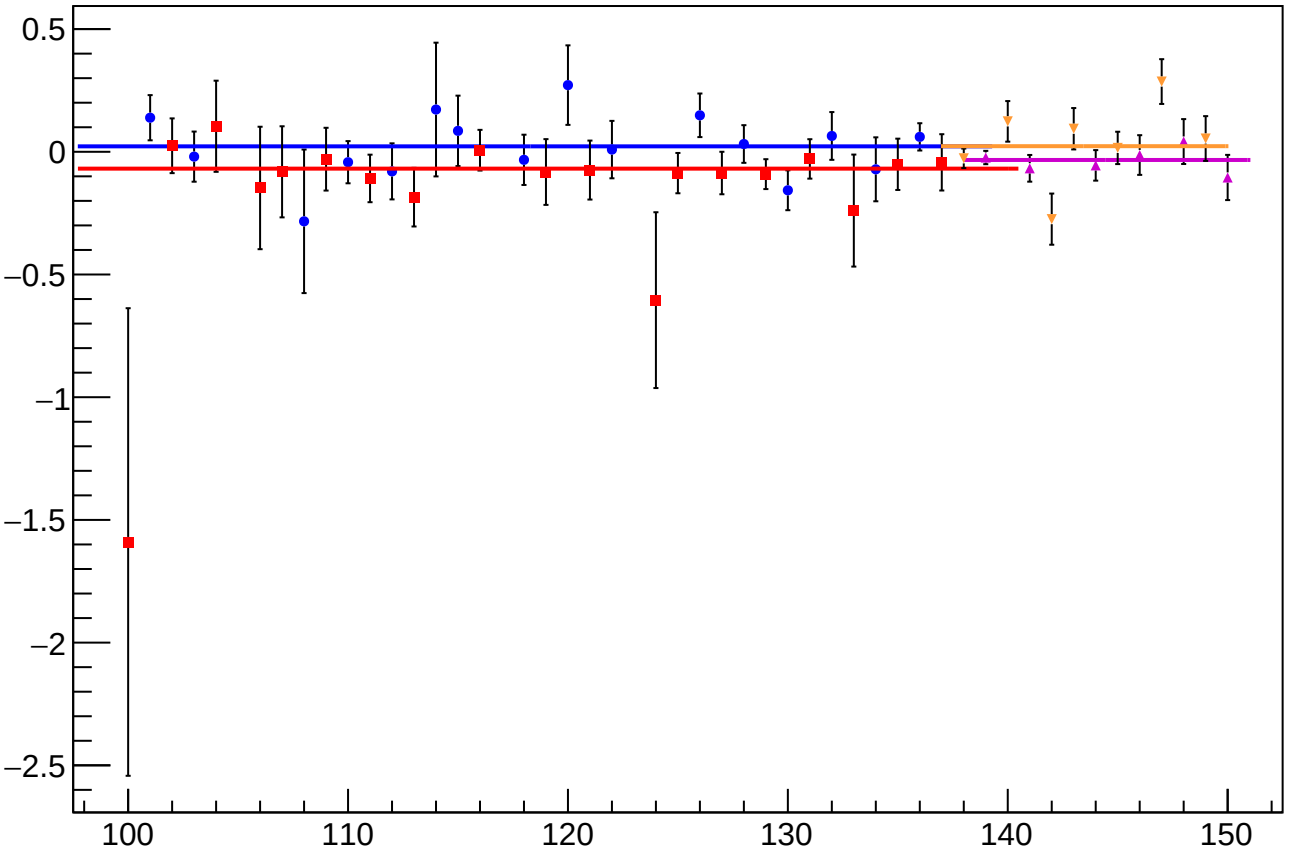
Left: 0.000+/-0.000 $\chi^2$/NDF: 1043239.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 2588419.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3553632.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3724720.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7278438.9/47




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.023+/-0.026 $\chi^2$/NDF:20.3/6

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.033+/-0.021 $\chi^2$/NDF:2.0/5

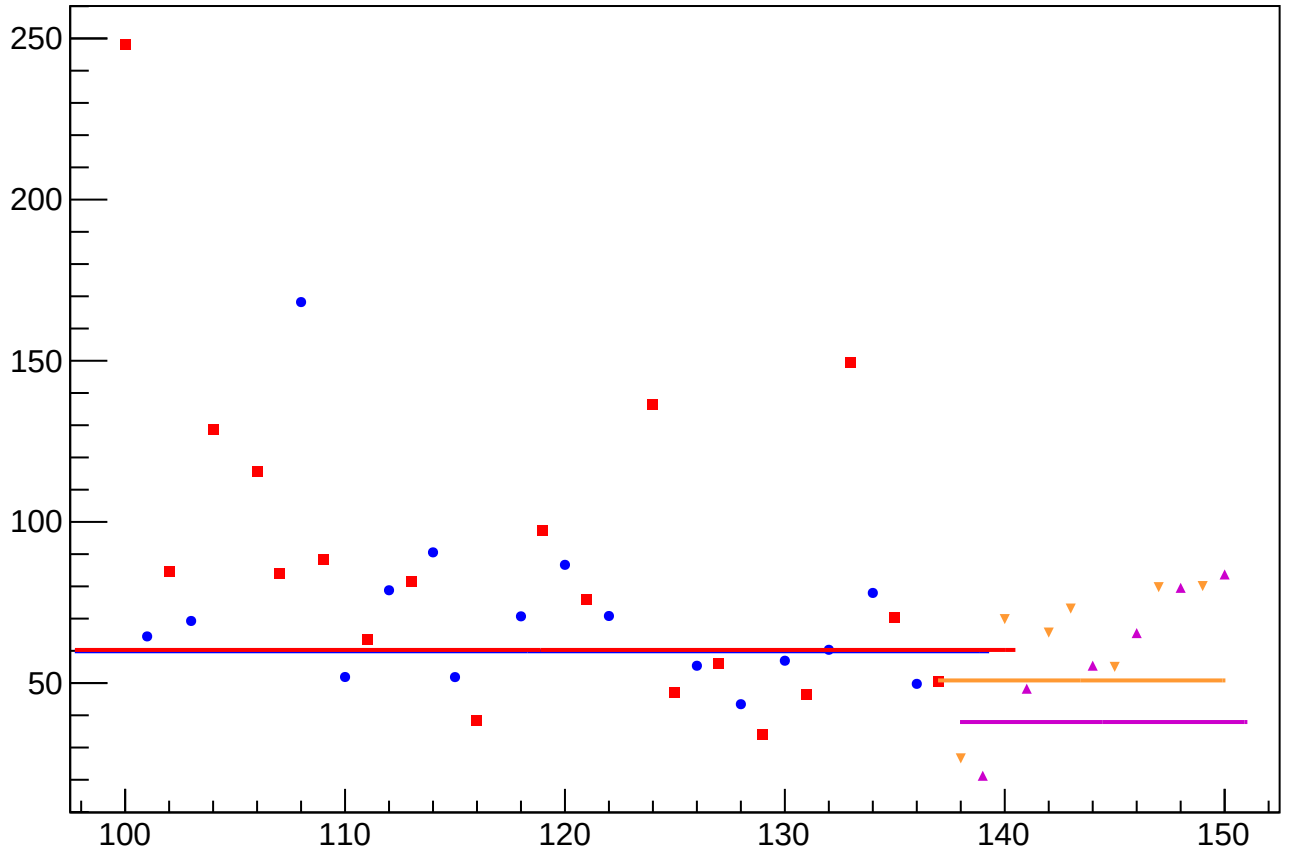
Left: -0.012+/-0.016 $\chi^2$/NDF: 25.2/12

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.010+/-0.016 $\chi^2$/NDF:20.5/21

Out: -0.024+/-0.018 $\chi^2$/NDF:36.3/25

All: -0.016+/-0.012 $\chi^2$/NDF: 57.1/47




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 50.819+/-0.018 $\chi^2$/NDF:1438611.6/6

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 37.913+/-0.015 $\chi^2$/NDF:2125325.4/5

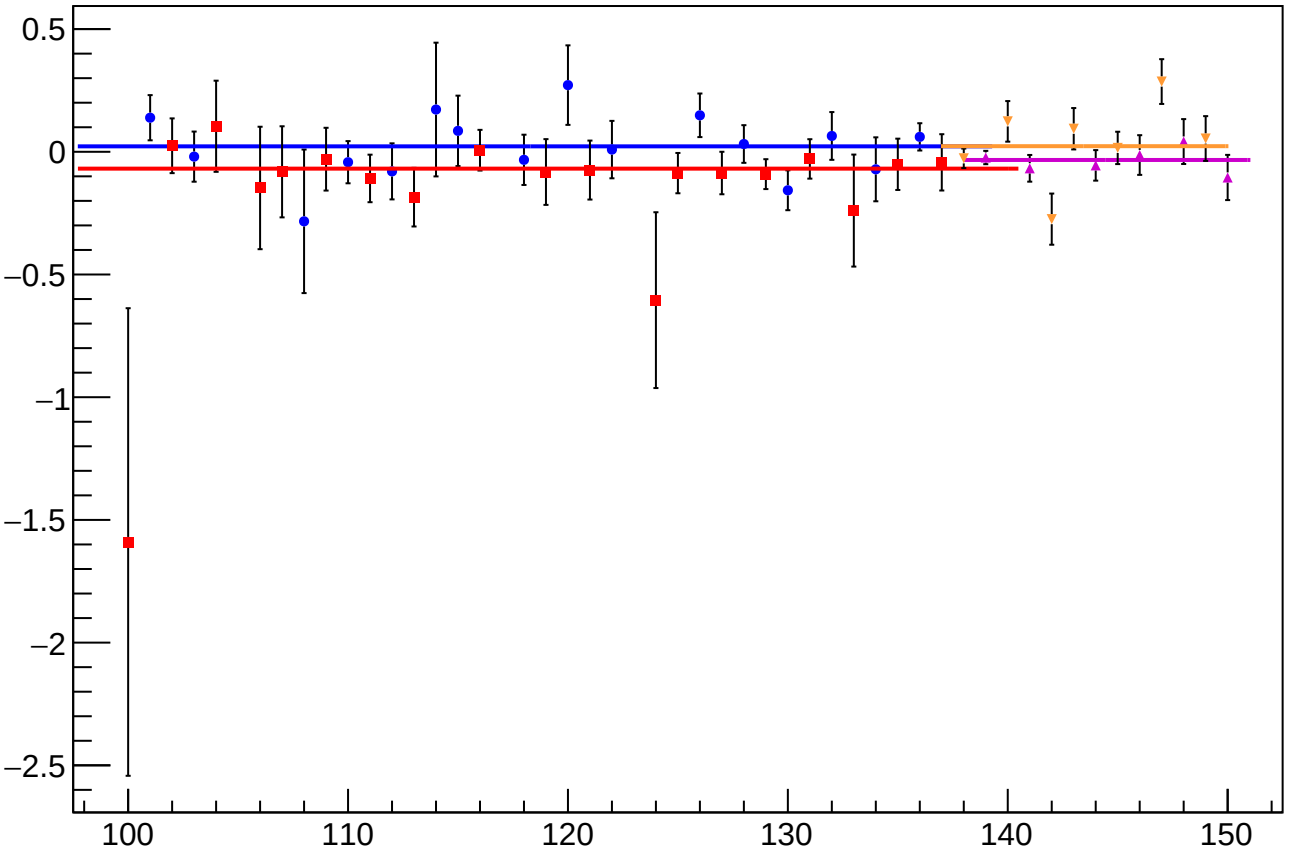
Left: 42.908+/-0.011 $\chi^2$/NDF: 3866086.8/12

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 46.960+/-0.011 $\chi^2$/NDF:3755159.7/21

Out: 55.681+/-0.013 $\chi^2$/NDF:3551927.9/25

All: 50.737+/-0.008 $\chi^2$/NDF: 7569666.8/47




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.023+/-0.026 $\chi^2$/NDF:20.3/6

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.033+/-0.021 $\chi^2$/NDF:2.0/5

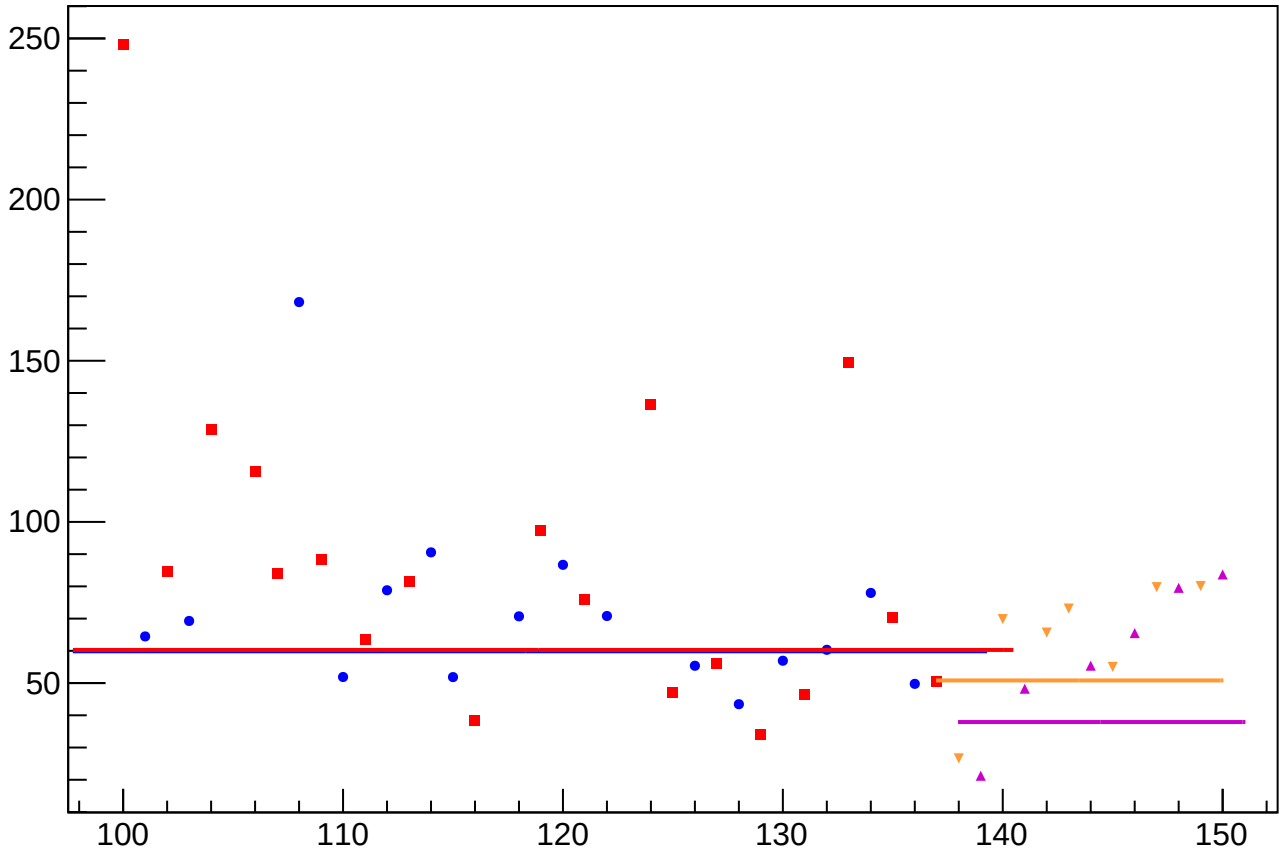
Left: -0.012+/-0.016 $\chi^2$/NDF: 25.2/12

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.010+/-0.016 $\chi^2$/NDF:20.5/21

Out: -0.024+/-0.018 $\chi^2$/NDF:36.3/25

All: -0.016+/-0.012 $\chi^2$/NDF: 57.1/47




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 50.819+/-0.018 $\chi^2$/NDF:1438611.6/6

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 37.913+/-0.015 $\chi^2$/NDF:2125325.4/5

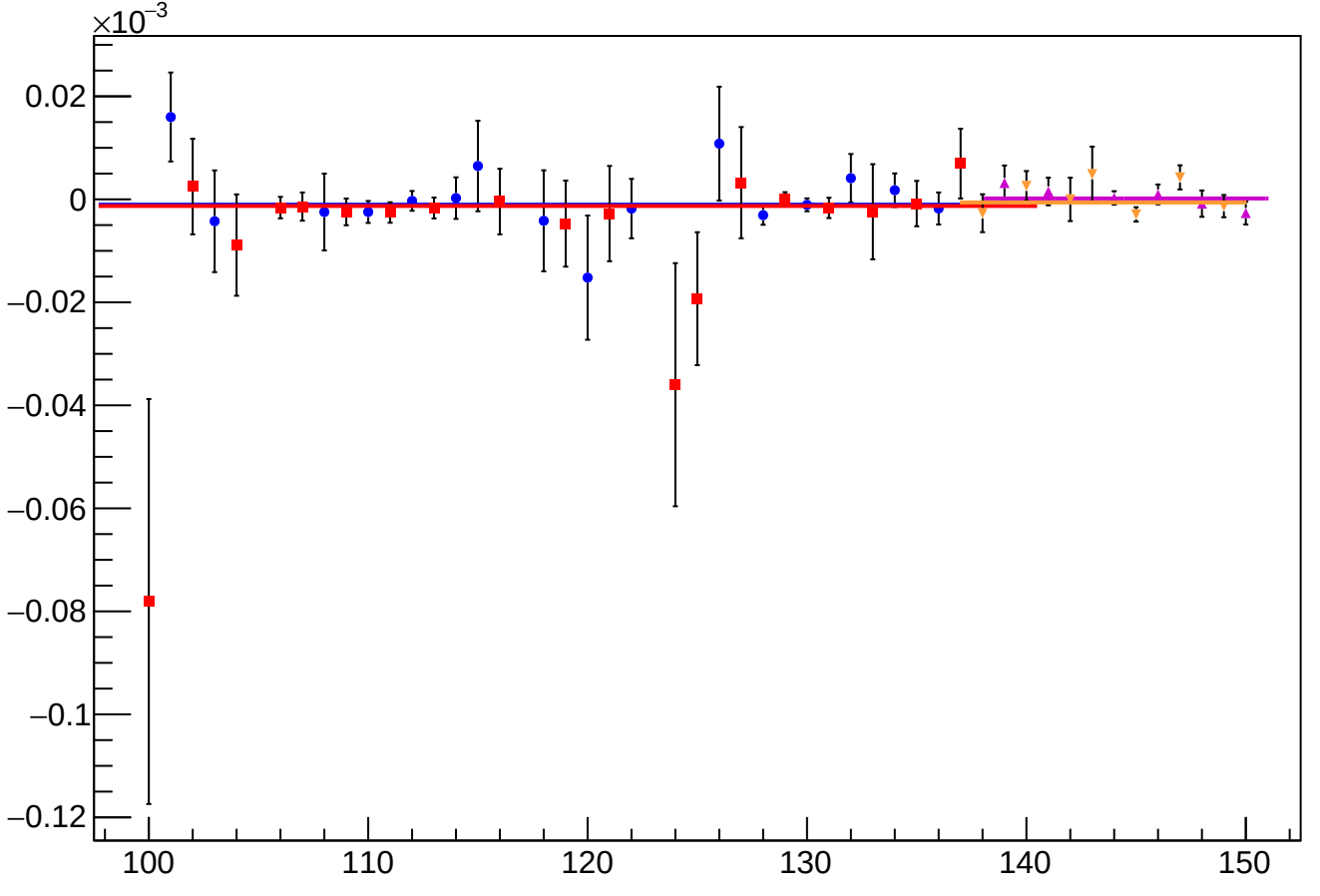
Left: 42.908+/-0.011 $\chi^2$/NDF: 3866086.8/12

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 46.960+/-0.011 $\chi^2$/NDF:3755159.7/21

Out: 55.681+/-0.013 $\chi^2$/NDF:3551927.9/25

All: 50.737+/-0.008 $\chi^2$/NDF: 7569666.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.0/5

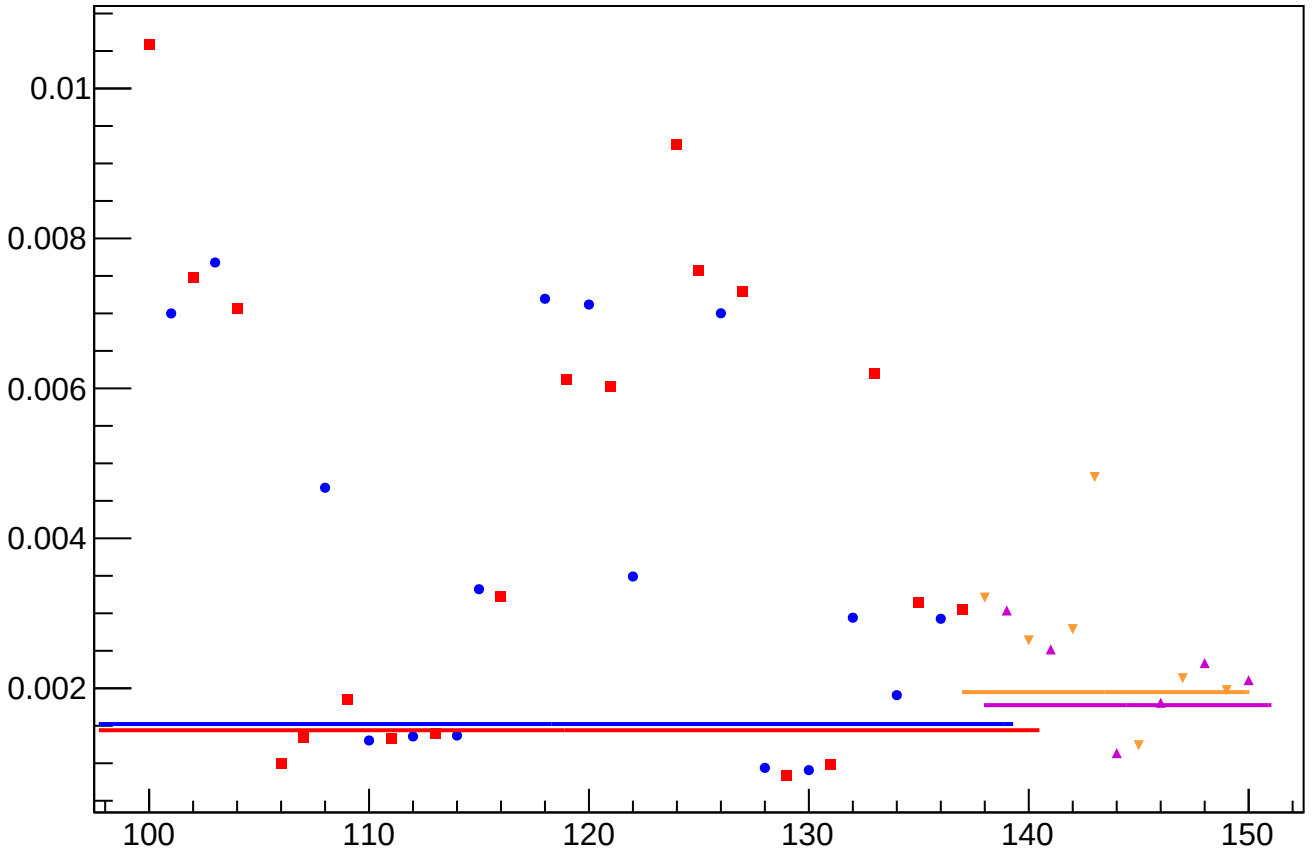
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:22.6/25

All: -0.000+/-0.000 $\chi^2$/NDF: 38.5/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5182869.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1531448.6/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5789411.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1052212.8/5

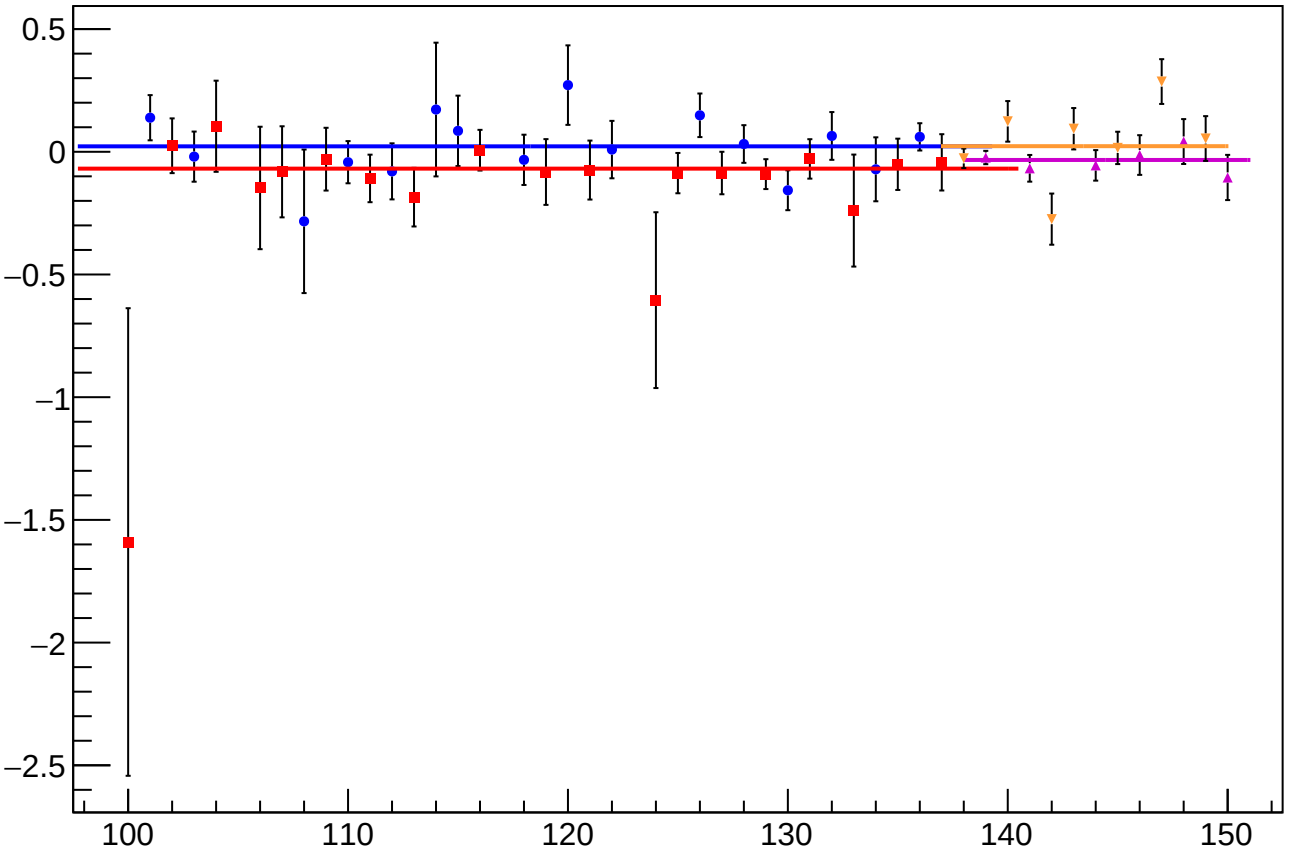
Left: 0.002+/-0.000 $\chi^2$/NDF: 2622949.4/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 10985380.1/34

In: 0.002+/-0.000 $\chi^2$/NDF:6337505.0/21

Out: 0.002+/-0.000 $\chi^2$/NDF:7710157.7/25

All: 0.002+/-0.000 $\chi^2$/NDF: 14047776.5/47




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.023+/-0.026 $\chi^2$/NDF:20.3/6

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.033+/-0.021 $\chi^2$/NDF:2.0/5

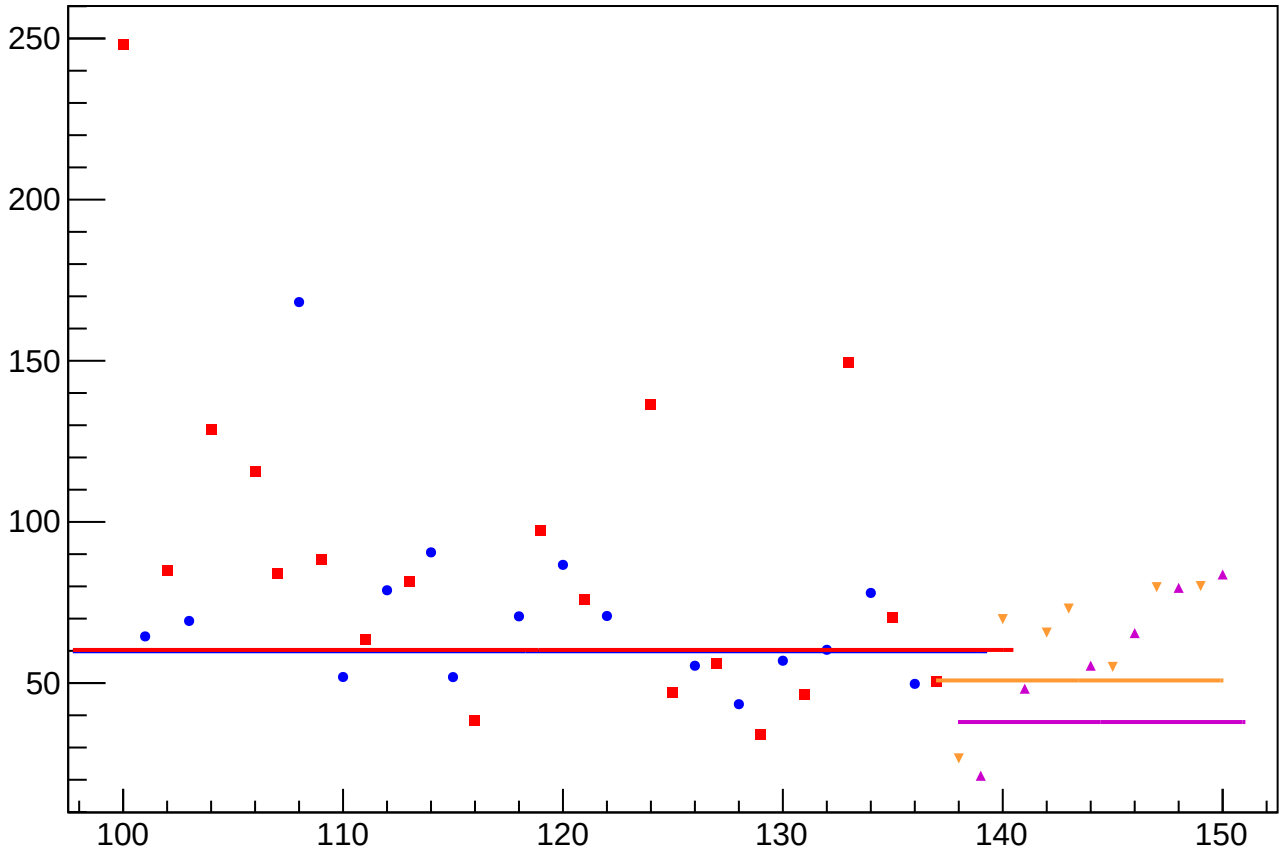
Left: -0.012+/-0.016 $\chi^2$/NDF: 25.2/12

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.010+/-0.016 $\chi^2$/NDF:20.5/21

Out: -0.024+/-0.018 $\chi^2$/NDF:36.3/25

All: -0.016+/-0.012 $\chi^2$/NDF: 57.1/47




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 50.818+/-0.018 $\chi^2$/NDF:1438876.2/6

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 37.912+/-0.015 $\chi^2$/NDF:2125552.0/5

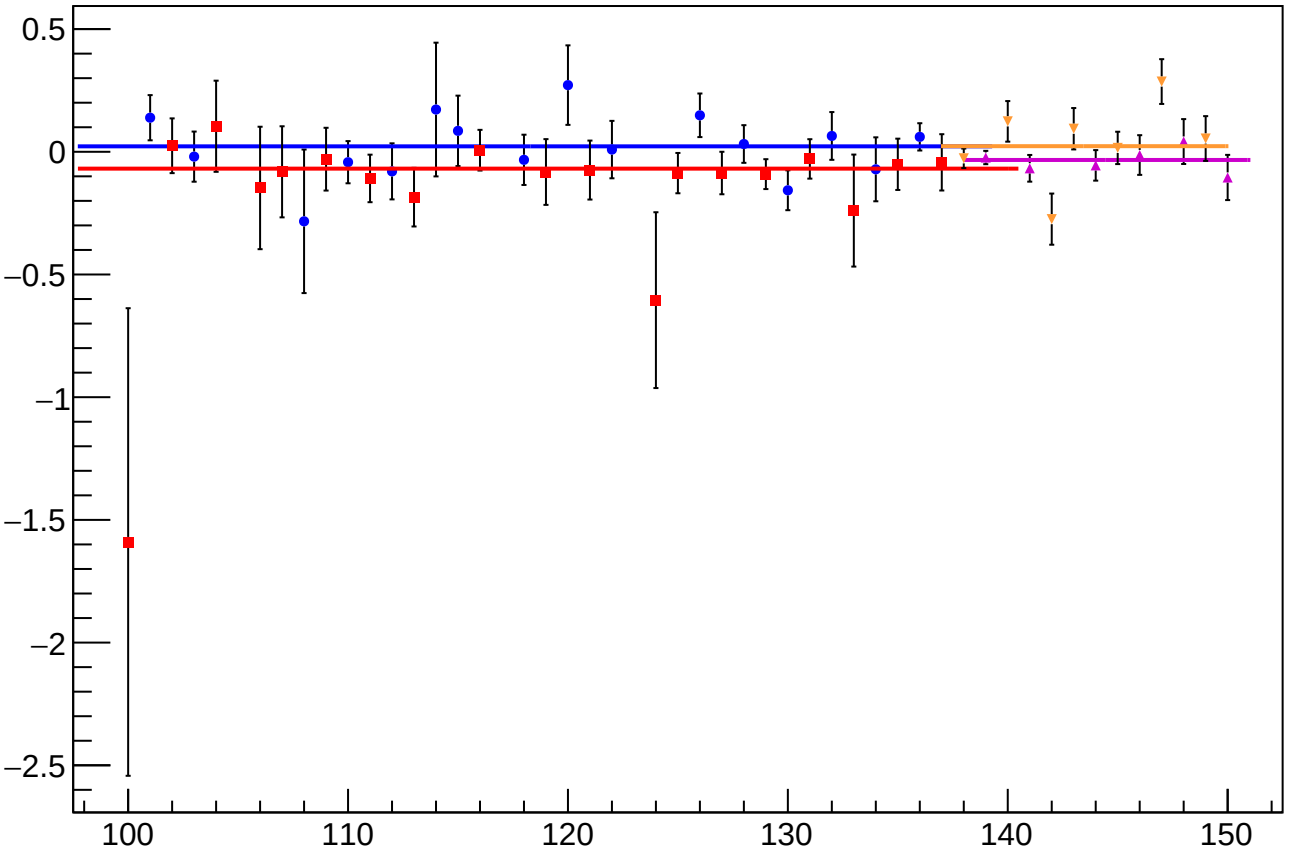
Left: 42.907+/-0.011 $\chi^2$/NDF: 3866580.9/12

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 46.959+/-0.011 $\chi^2$/NDF:3755632.8/21

Out: 55.680+/-0.013 $\chi^2$/NDF:3552328.9/25

All: 50.736+/-0.008 $\chi^2$/NDF: 7570560.4/47




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.023+/-0.026 $\chi^2$/NDF:20.3/6

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.033+/-0.021 $\chi^2$/NDF:2.0/5

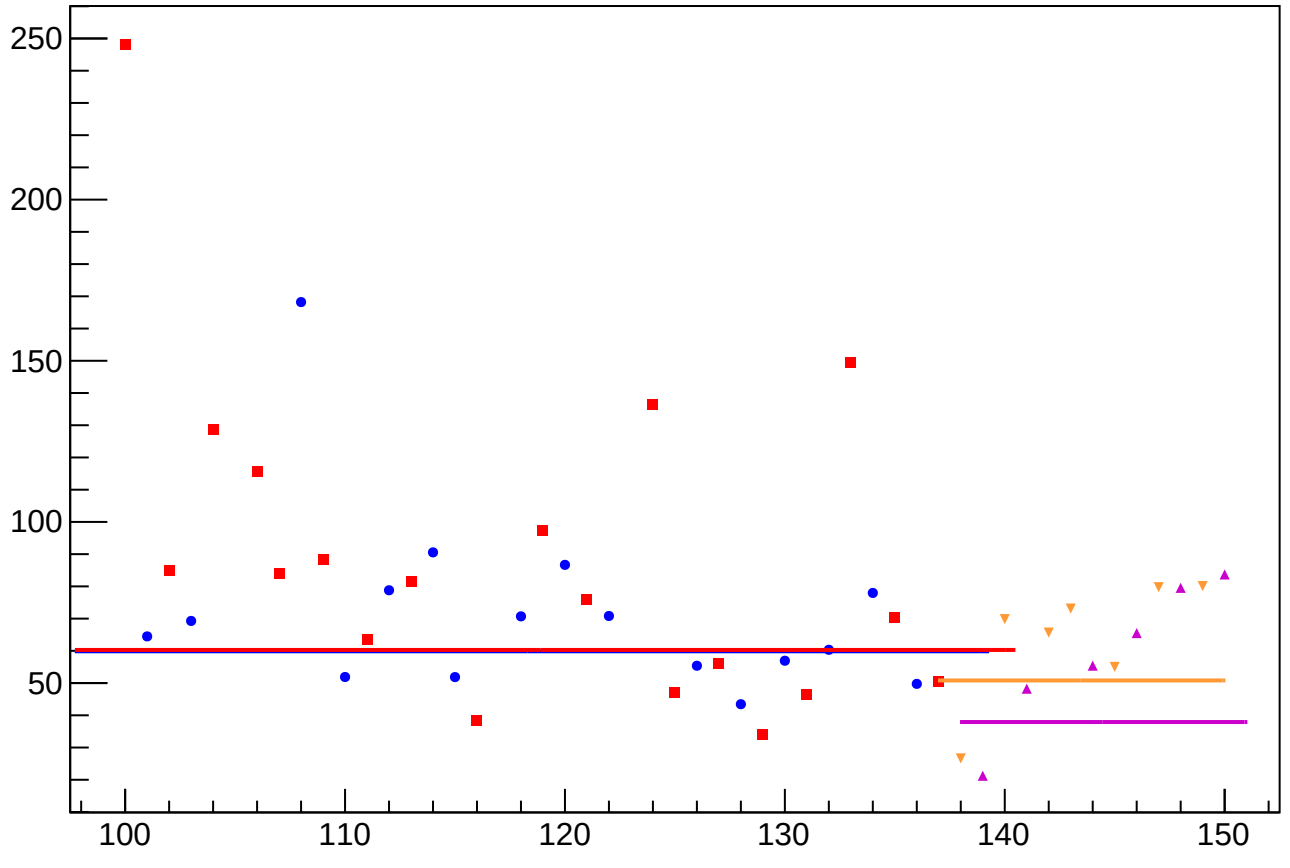
Left: -0.012+/-0.016 $\chi^2$/NDF: 25.2/12

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.010+/-0.016 $\chi^2$/NDF:20.5/21

Out: -0.024+/-0.018 $\chi^2$/NDF:36.3/25

All: -0.016+/-0.012 $\chi^2$/NDF: 57.1/47




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 50.818+/-0.018 $\chi^2$/NDF:1438876.2/6

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 37.912+/-0.015 $\chi^2$/NDF:2125552.0/5

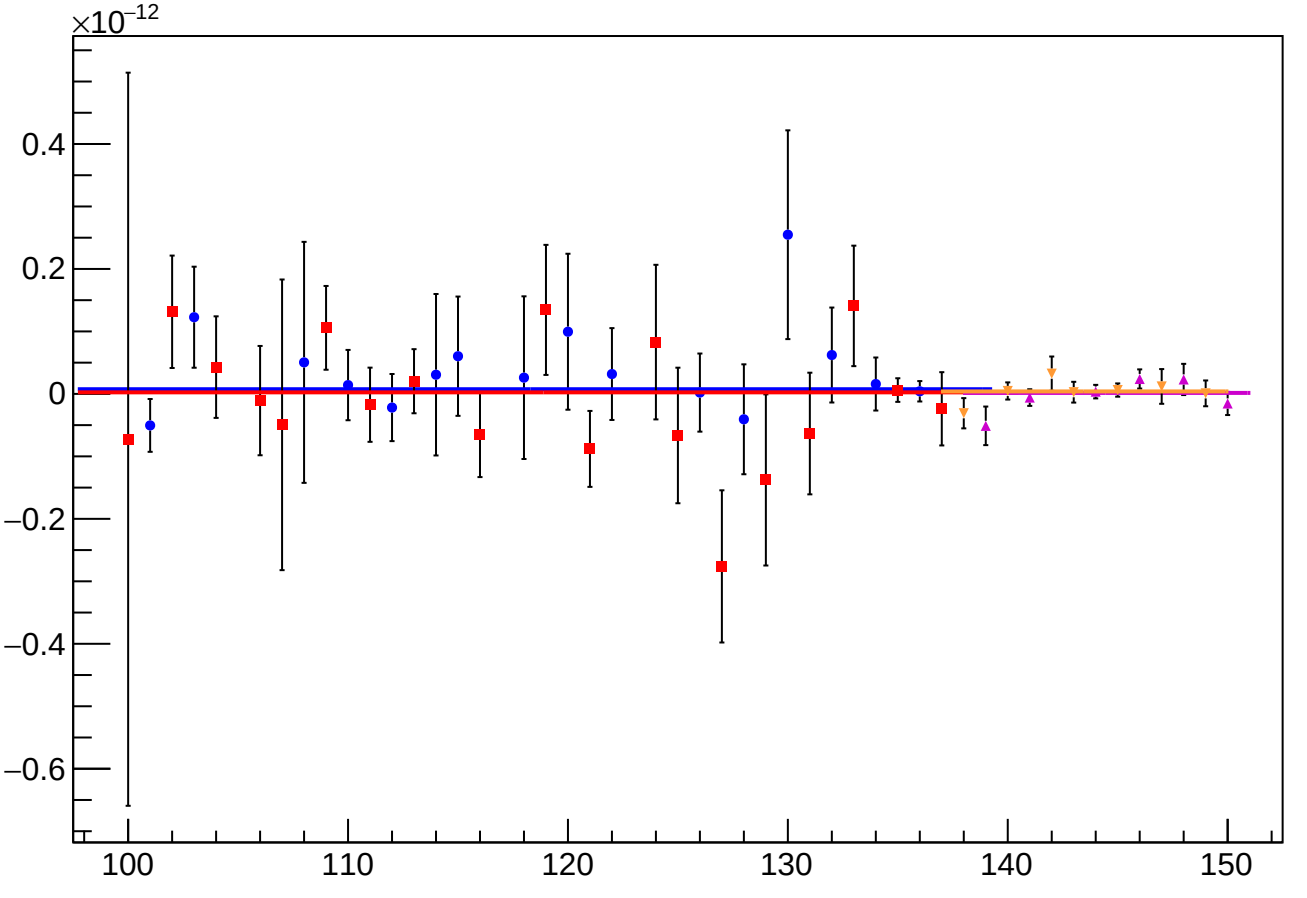
Left: 42.907+/-0.011 $\chi^2$/NDF: 3866580.9/12

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 46.959+/-0.011 $\chi^2$/NDF:3755632.8/21

Out: 55.680+/-0.013 $\chi^2$/NDF:3552328.9/25

All: 50.736+/-0.008 $\chi^2$/NDF: 7570560.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.0/5

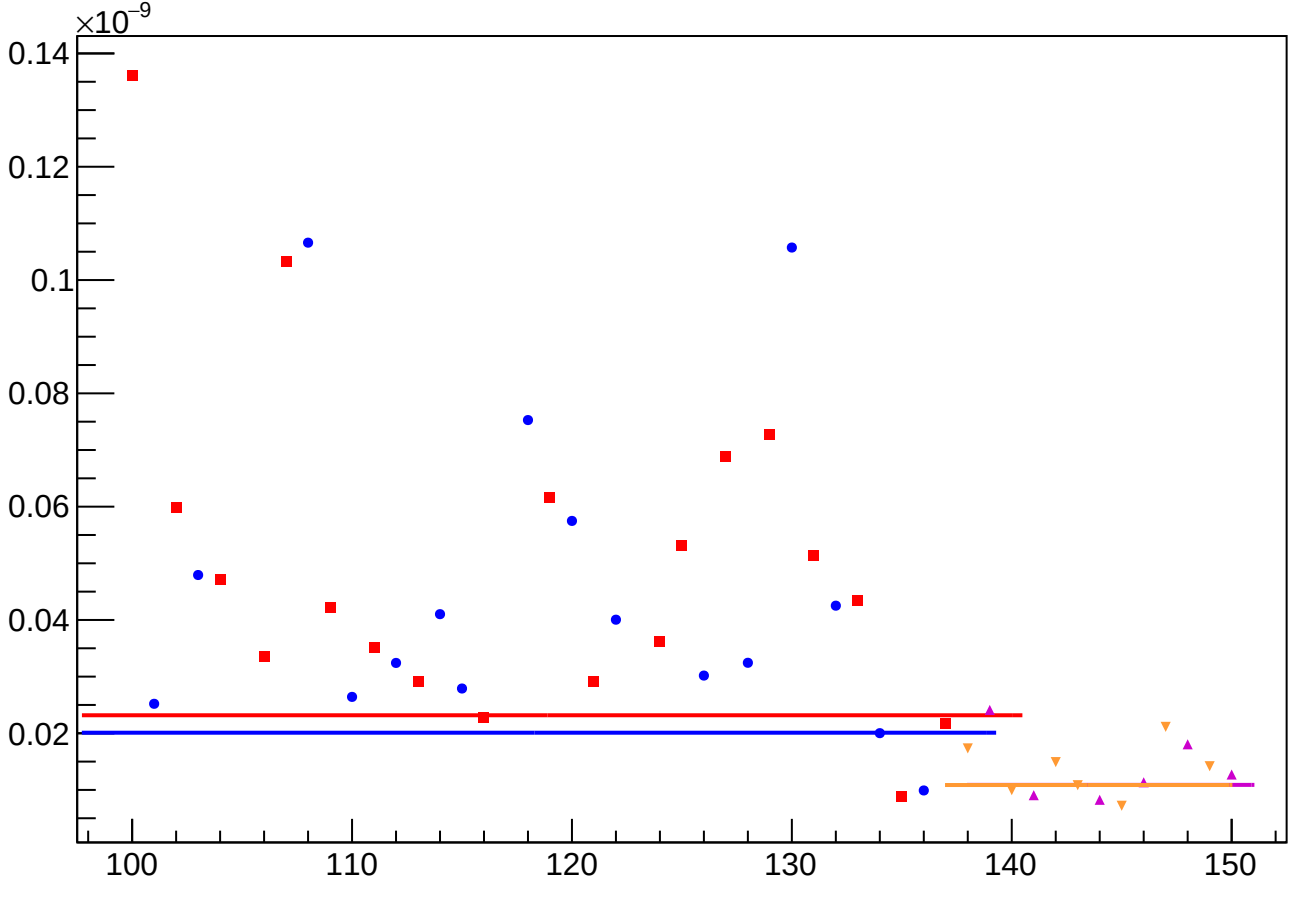
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 38.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3121422.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:756987.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3530677.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:708480.8/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1465481.7/12

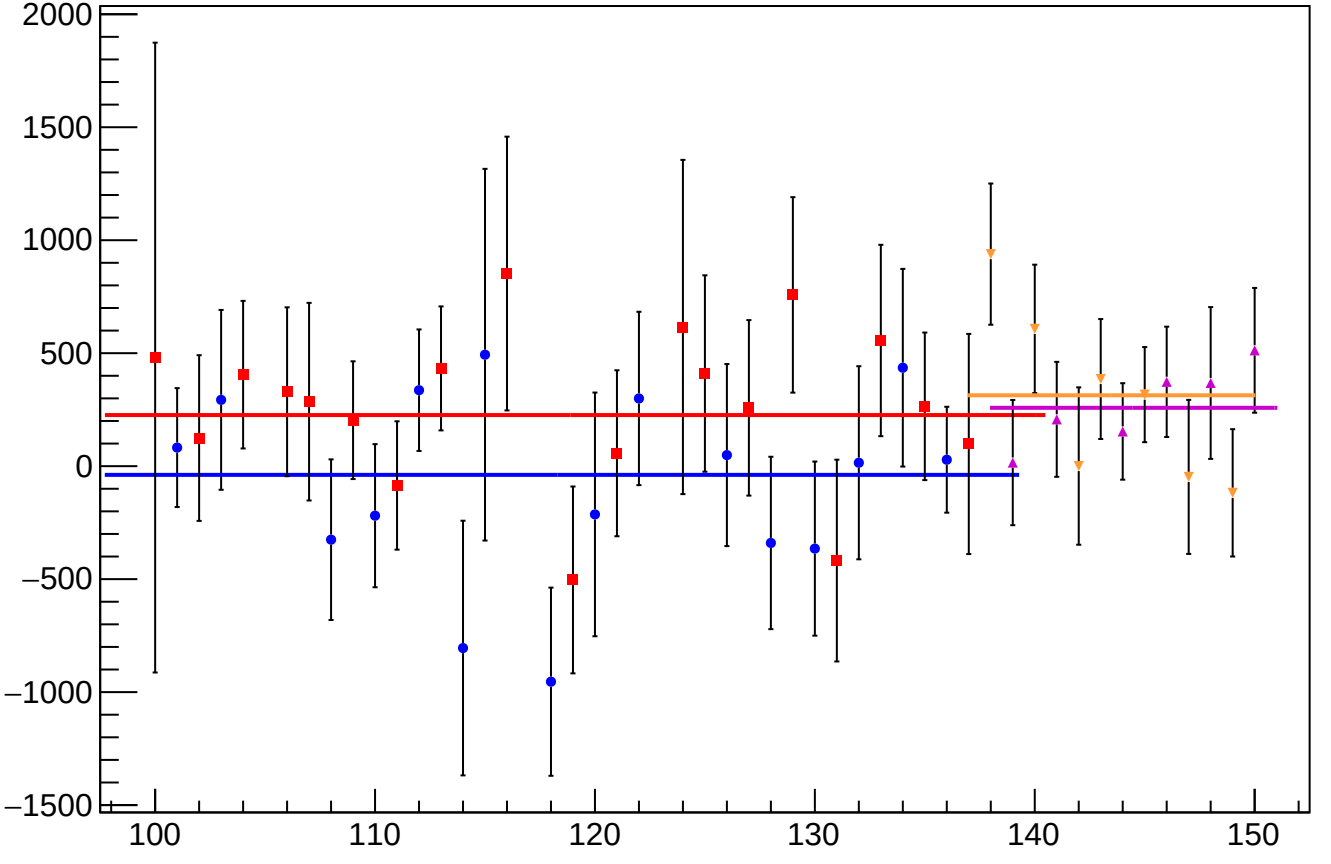
Right: 0.000+/-0.000 $\chi^2$/NDF: 6709527.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:4726481.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5642682.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 10370326.1/47

# reg_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.498+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 313.629+/-106.094 $\chi^2$/NDF:9.4/6

Right Out: 226.168+/-87.908 $\chi^2$/NDF: 11.4/18

Left In: 258.229+/-105.903 $\chi^2$/NDF:2.2/5

Left: 285.879+/-74.952 $\chi^2$/NDF: 11.8/12

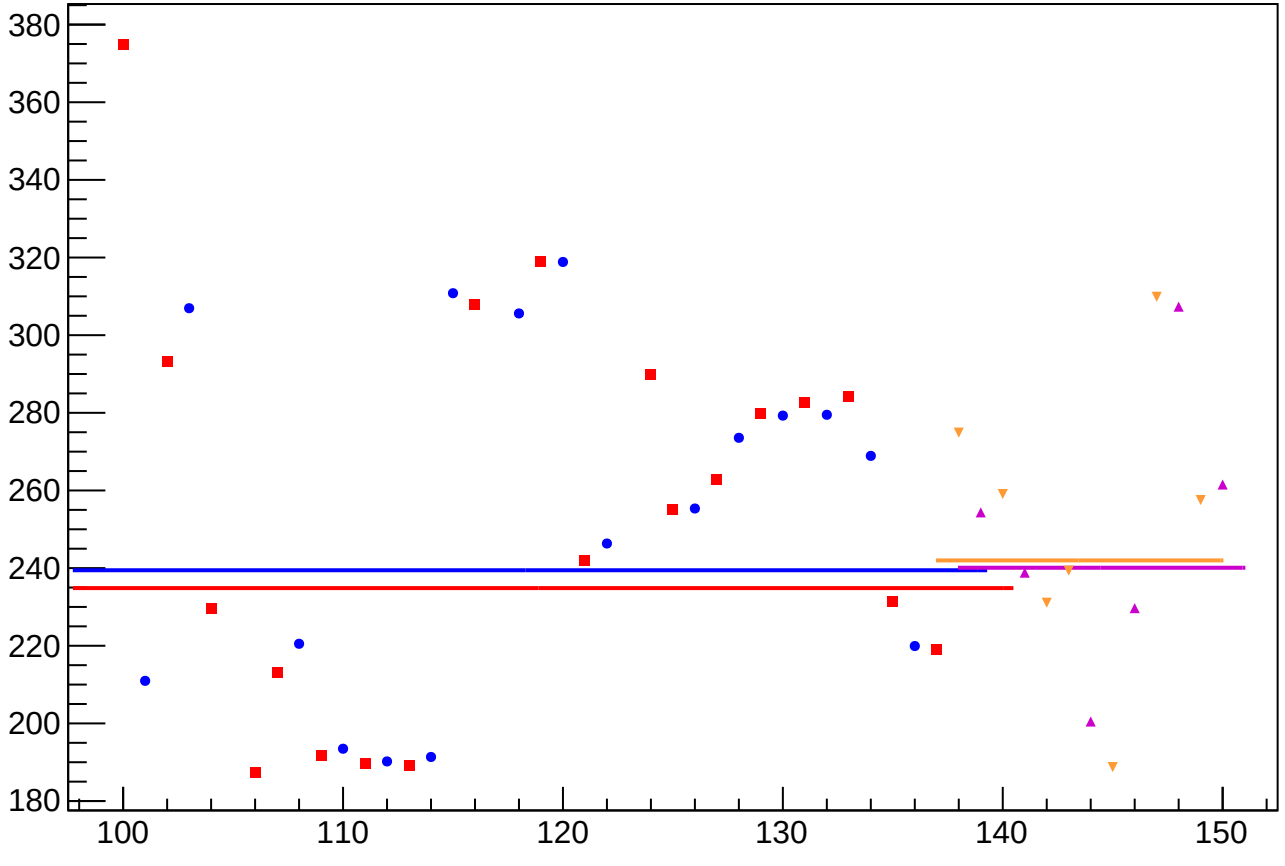
Right: 97.852+/-63.097 $\chi^2$/NDF: 30.3/34

In: 86.927+/-68.853 $\chi^2$/NDF:21.2/21

Out: 261.771+/-67.690 $\chi^2$/NDF:21.2/25

All: 175.837+/-48.270 $\chi^2$/NDF: 45.7/47

# reg_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400955.7/15

Left Out: 241.983+/-0.075 $\chi^2$/NDF:244945.9/6

Right Out: 234.855+/-0.062 $\chi^2$/NDF: 481715.3/18

Left In: 240.095+/-0.075 $\chi^2$/NDF:170038.2/5

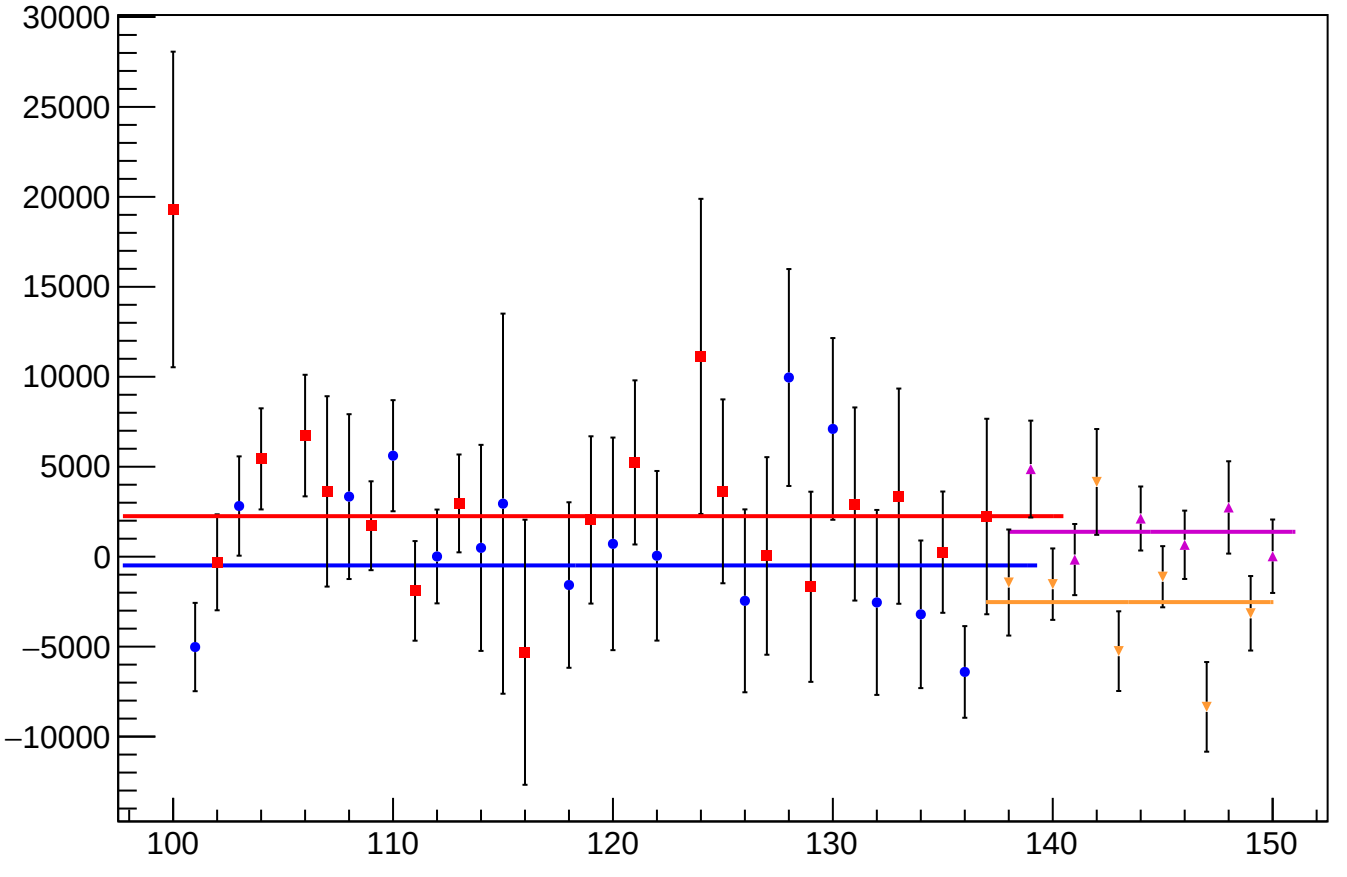
Left: 241.037+/-0.053 $\chi^2$/NDF: 415301.3/12

Right: 237.082+/-0.045 $\chi^2$/NDF: 885319.7/34

In: 239.722+/-0.049 $\chi^2$/NDF:571037.0/21

Out: 237.756+/-0.048 $\chi^2$/NDF:732014.9/25

All: 238.723+/-0.034 $\chi^2$/NDF: 1303880.9/47




Right In: -485.932+/-947.459 $\chi^2$/NDF: 21.1/15

Left Out: -2524.528+/-836.653 $\chi^2$/NDF:13.3/6

Right Out: 2251.898+/-894.171 $\chi^2$/NDF: 13.9/18

Left In: 1382.529+/-851.604 $\chi^2$/NDF:3.3/5

Left: -605.597+/-596.819 $\chi^2$/NDF: 27.3/12

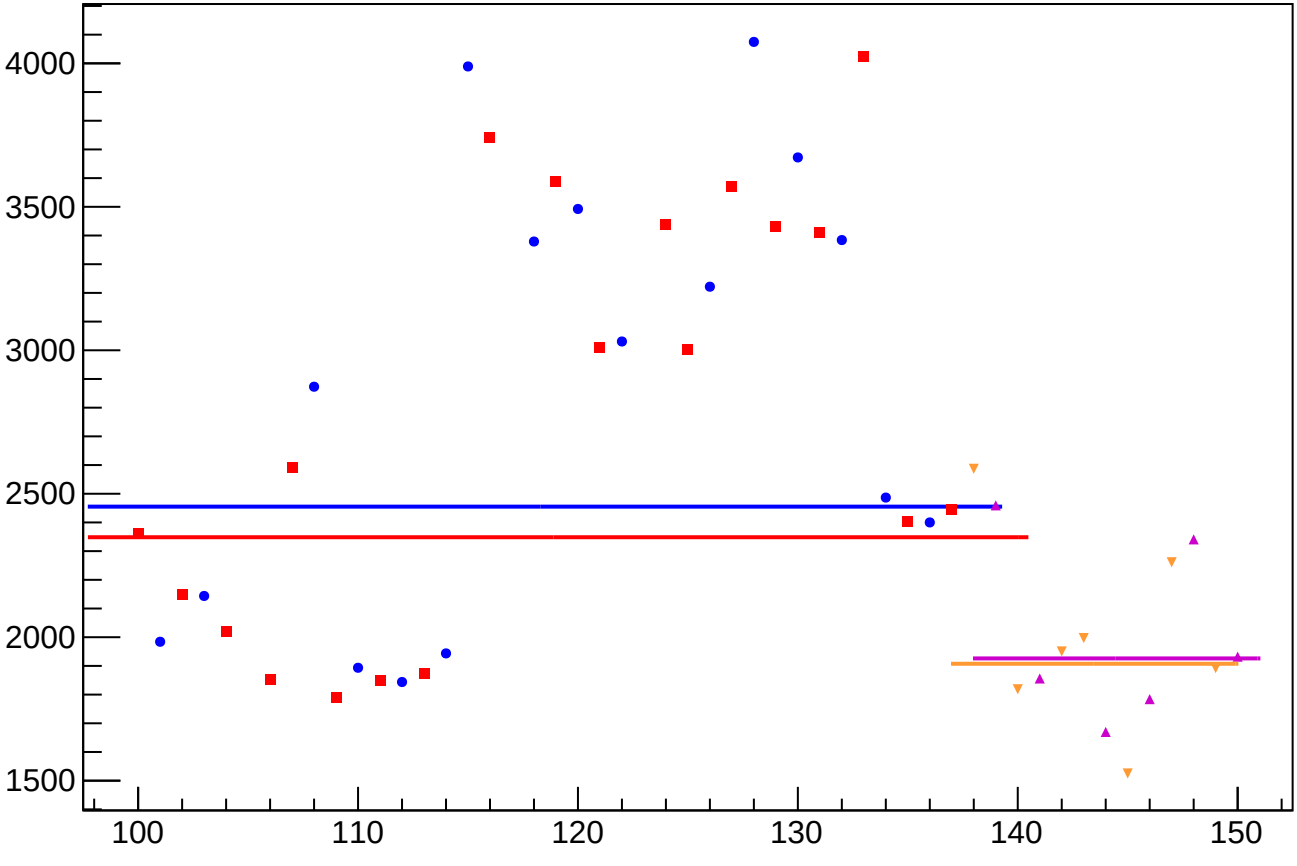
Right: 962.136+/-650.297 $\chi^2$/NDF: 39.4/34

In: 547.569+/-633.361 $\chi^2$/NDF:26.6/21

Out: -294.869+/-610.926 $\chi^2$/NDF:42.4/25

All: 111.166+/-439.707 $\chi^2$/NDF: 69.9/47

# asym_sam4_reg_correction_rms vs Slug, Sign Corrected




Right In: 2455.103+/-0.670 $\chi^2$/NDF: 894389.6/15

Left Out: 1907.463+/-0.592 $\chi^2$/NDF:255572.1/6

Right Out: 2348.446+/-0.632 $\chi^2$/NDF: 1052421.6/18

Left In: 1926.091+/-0.602 $\chi^2$/NDF:186021.5/5

Left: 1916.612+/-0.422 $\chi^2$/NDF: 442080.6/12

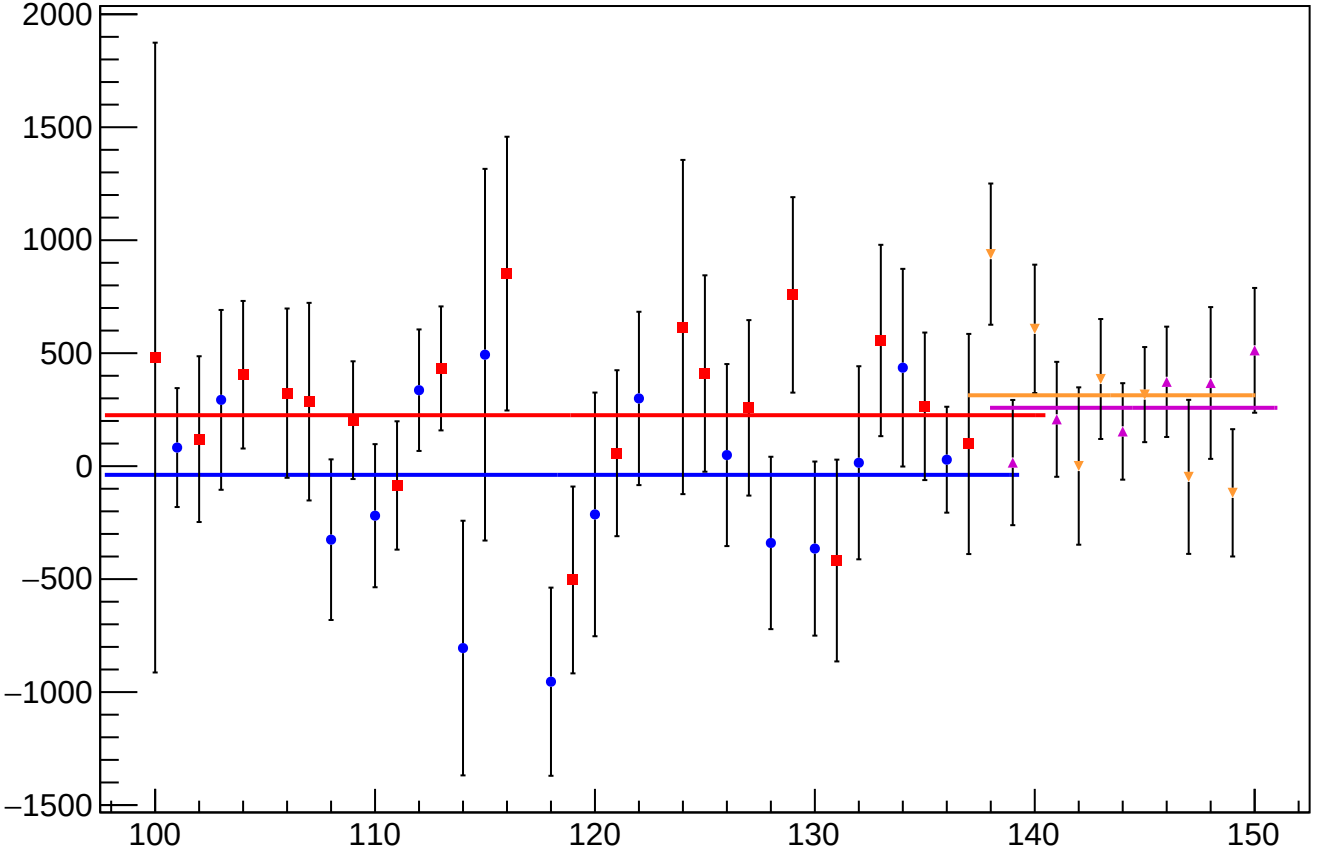
Right: 2398.691+/-0.460 $\chi^2$/NDF: 1960216.3/34

In: 2162.491+/-0.448 $\chi^2$/NDF:1425290.3/21

Out: 2113.316+/-0.432 $\chi^2$/NDF:1567363.0/25

All: 2137.017+/-0.311 $\chi^2$/NDF: 2998898.7/47

# cor_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 313.658+/-106.094 $\chi^2$/NDF:9.4/6

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 258.240+/-105.903 $\chi^2$/NDF:2.2/5

Left: 285.899+/-74.952 $\chi^2$/NDF: 11.8/12

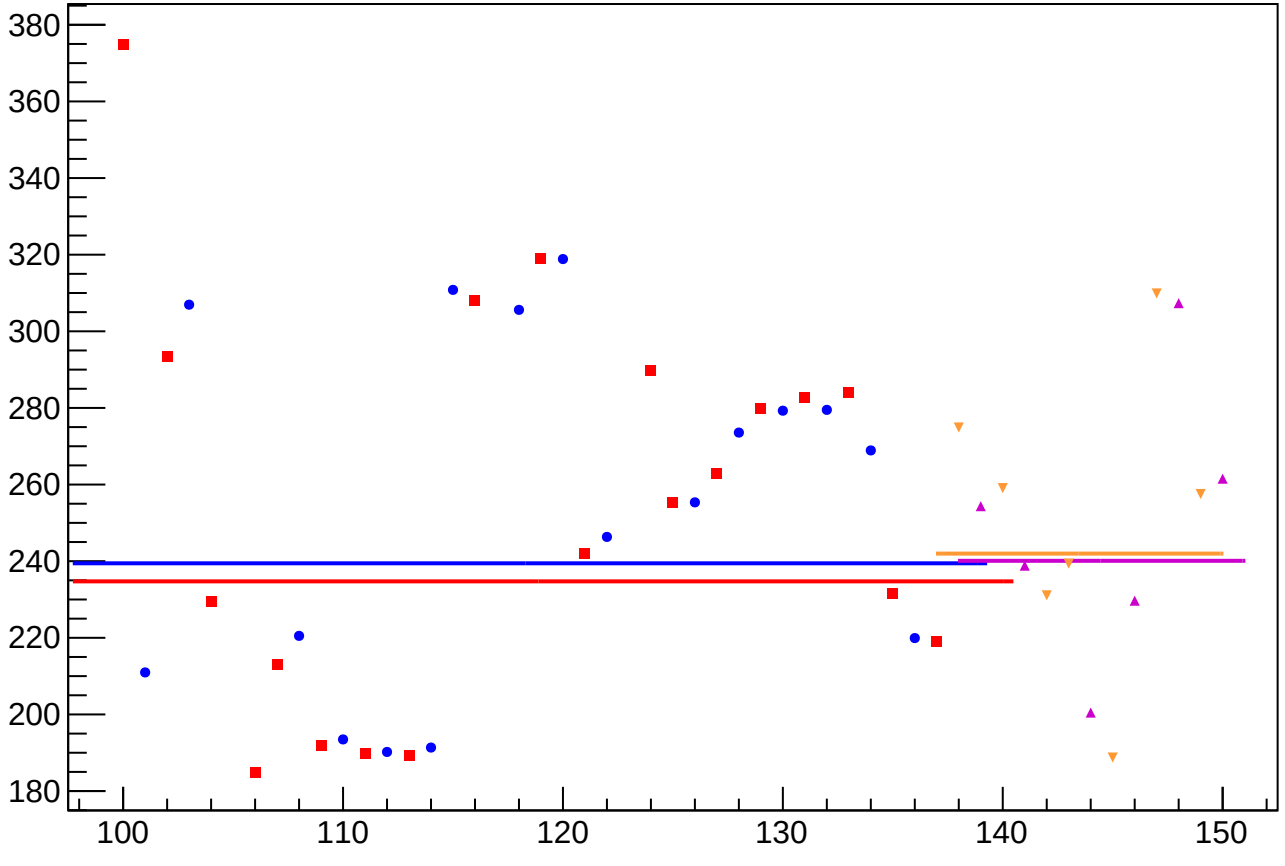
Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 86.919+/-68.853 $\chi^2$/NDF:21.2/21

Out: 261.402+/-67.697 $\chi^2$/NDF:21.2/25

All: 175.638+/-48.272 $\chi^2$/NDF: 45.7/47

# cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 241.983+/-0.075 $\chi^2$/NDF:244945.9/6

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 240.095+/-0.075 $\chi^2$/NDF:170038.2/5

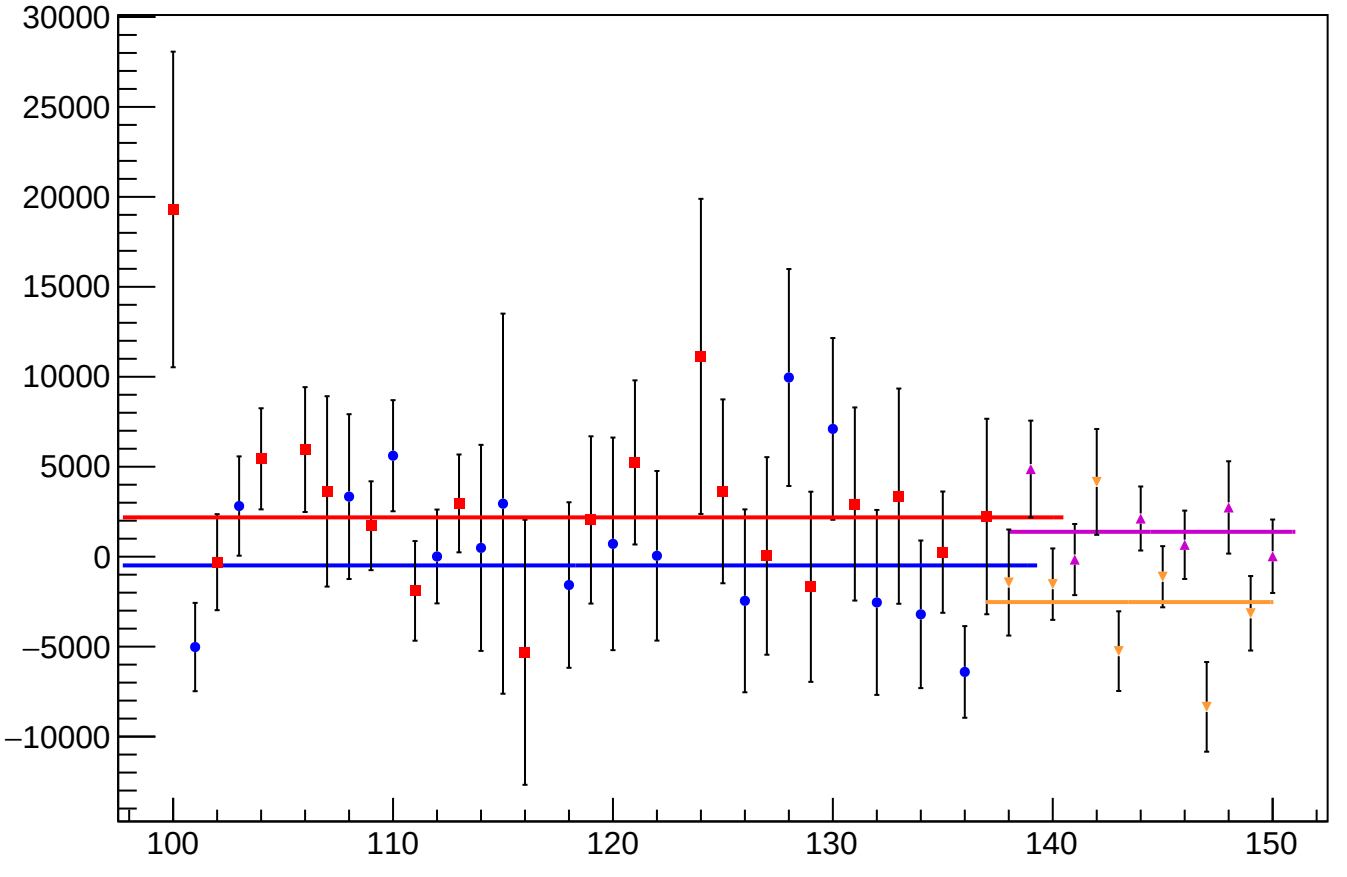
Left: 241.037+/-0.053 $\chi^2$/NDF: 415301.3/12

Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 239.722+/-0.049 $\chi^2$/NDF:571039.4/21

Out: 237.685+/-0.048 $\chi^2$/NDF:735721.6/25

All: 238.686+/-0.034 $\chi^2$/NDF: 1307651.5/47




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -2524.502+/-836.653 $\chi^2$/NDF:13.3/6

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 1382.554+/-851.604 $\chi^2$/NDF:3.3/5

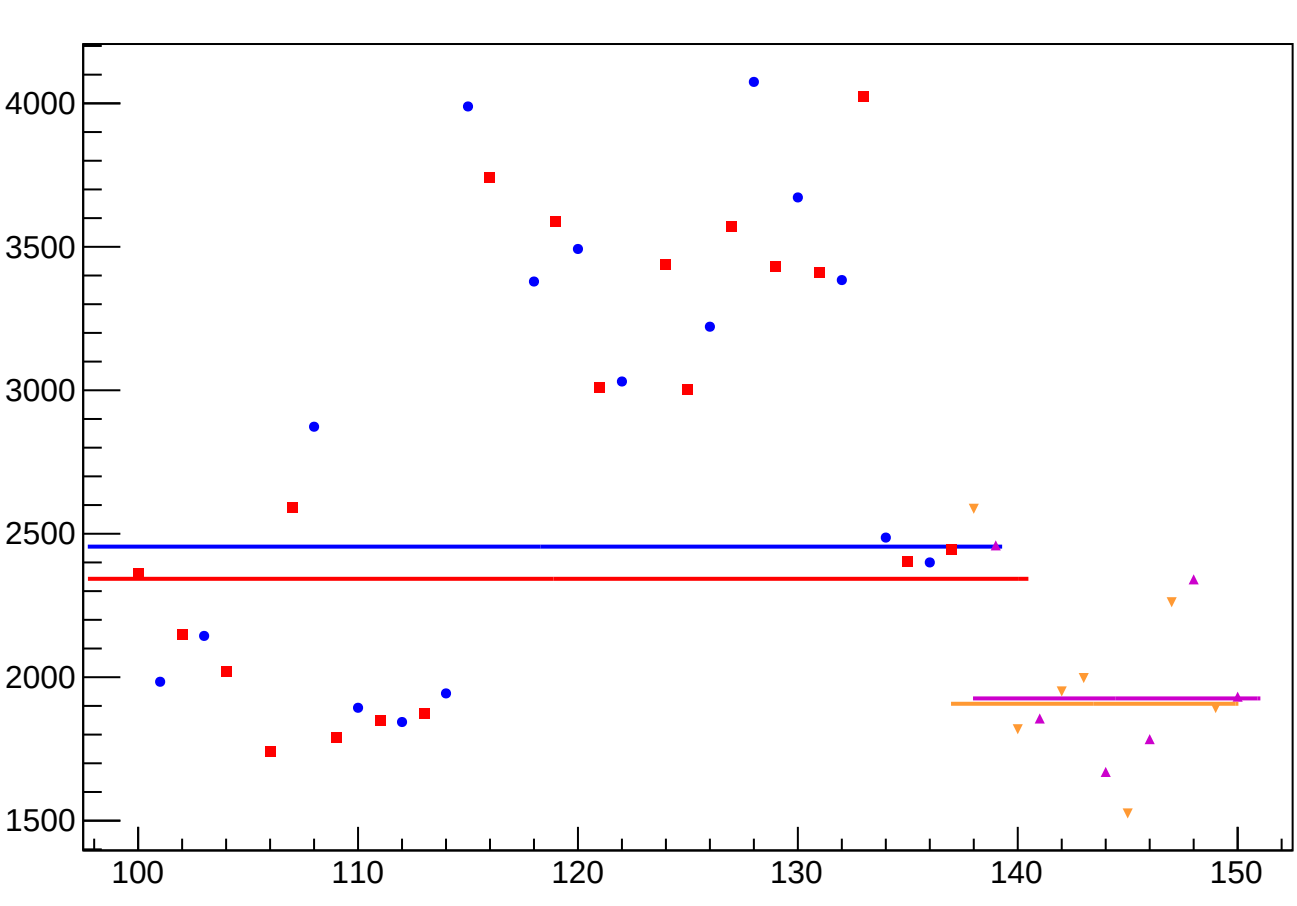
Left: -605.573+/-596.819 $\chi^2$/NDF: 27.3/12

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 547.514+/-633.363 $\chi^2$/NDF:26.6/21

Out: -330.591+/-611.464 $\chi^2$/NDF:41.3/25

All: 93.019+/-439.909 $\chi^2$/NDF: 68.9/47




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 1907.463+/-0.592 $\chi^2$/NDF:255573.7/6

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1926.092+/-0.602 $\chi^2$/NDF:186019.7/5

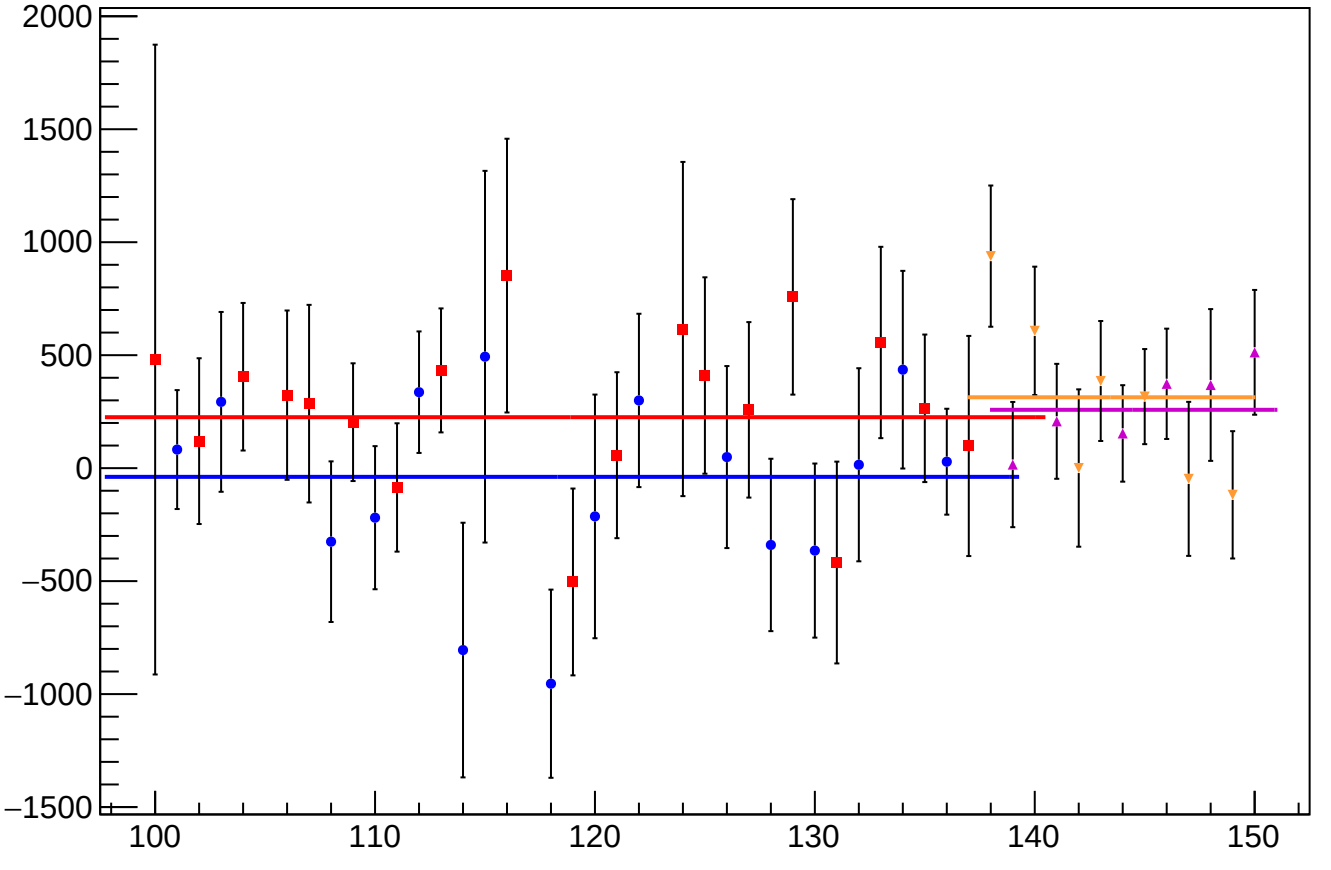
Left: 1916.612+/-0.422 $\chi^2$/NDF: 442080.4/12

Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2162.500+/-0.448 $\chi^2$/NDF:1425284.3/21

Out: 2110.343+/-0.432 $\chi^2$/NDF:1578403.0/25

All: 2135.504+/-0.311 $\chi^2$/NDF: 3010707.3/47




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 313.658+/-106.094 $\chi^2$/NDF:9.4/6

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 258.240+/-105.903 $\chi^2$/NDF:2.2/5

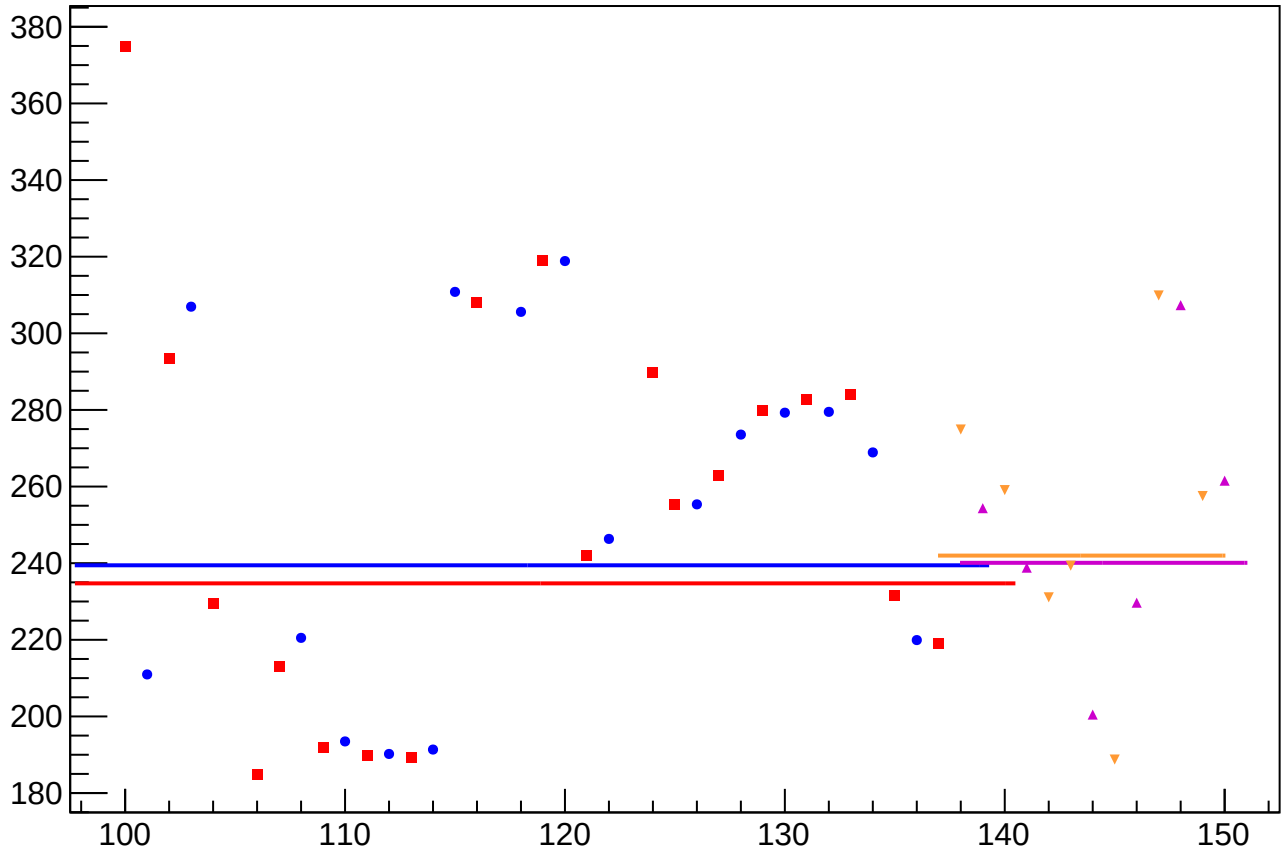
Left: 285.899+/-74.952 $\chi^2$/NDF: 11.8/12

Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 86.919+/-68.853 $\chi^2$/NDF:21.2/21

Out: 261.402+/-67.697 $\chi^2$/NDF:21.2/25

All: 175.638+/-48.272 $\chi^2$/NDF: 45.7/47




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 241.983+/-0.075 $\chi^2$/NDF:244945.9/6

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 240.095+/-0.075 $\chi^2$/NDF:170038.2/5

Left: 241.037+/-0.053 $\chi^2$/NDF: 415301.3/12

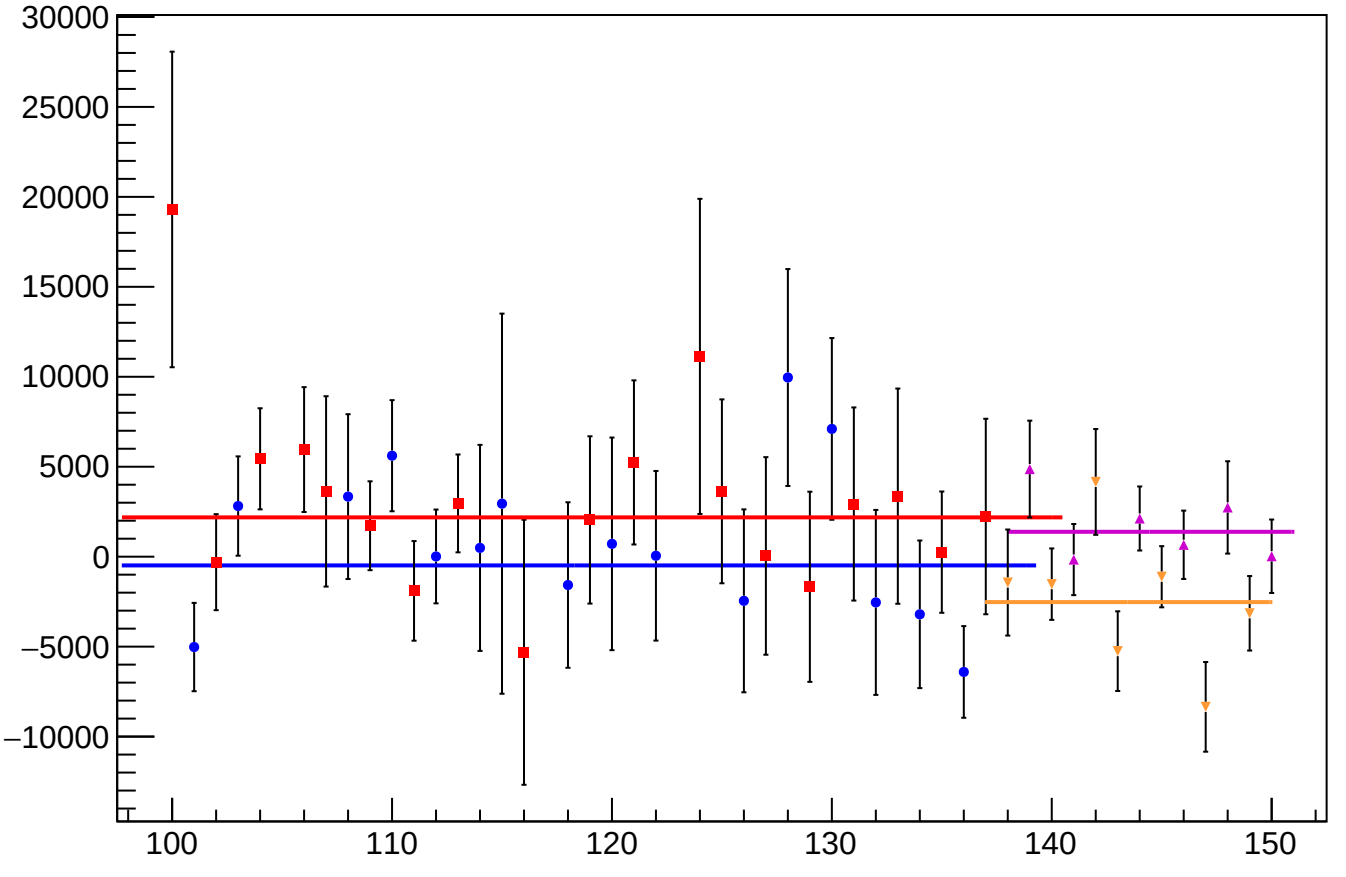
Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 239.722+/-0.049 $\chi^2$/NDF:571039.4/21

Out: 237.685+/-0.048 $\chi^2$/NDF:735721.6/25

All: 238.686+/-0.034 $\chi^2$/NDF: 1307651.5/47

asym_sam4_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -2524.502+/-836.653 $\chi^2$/NDF:13.3/6

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 1382.554+/-851.604 $\chi^2$/NDF:3.3/5

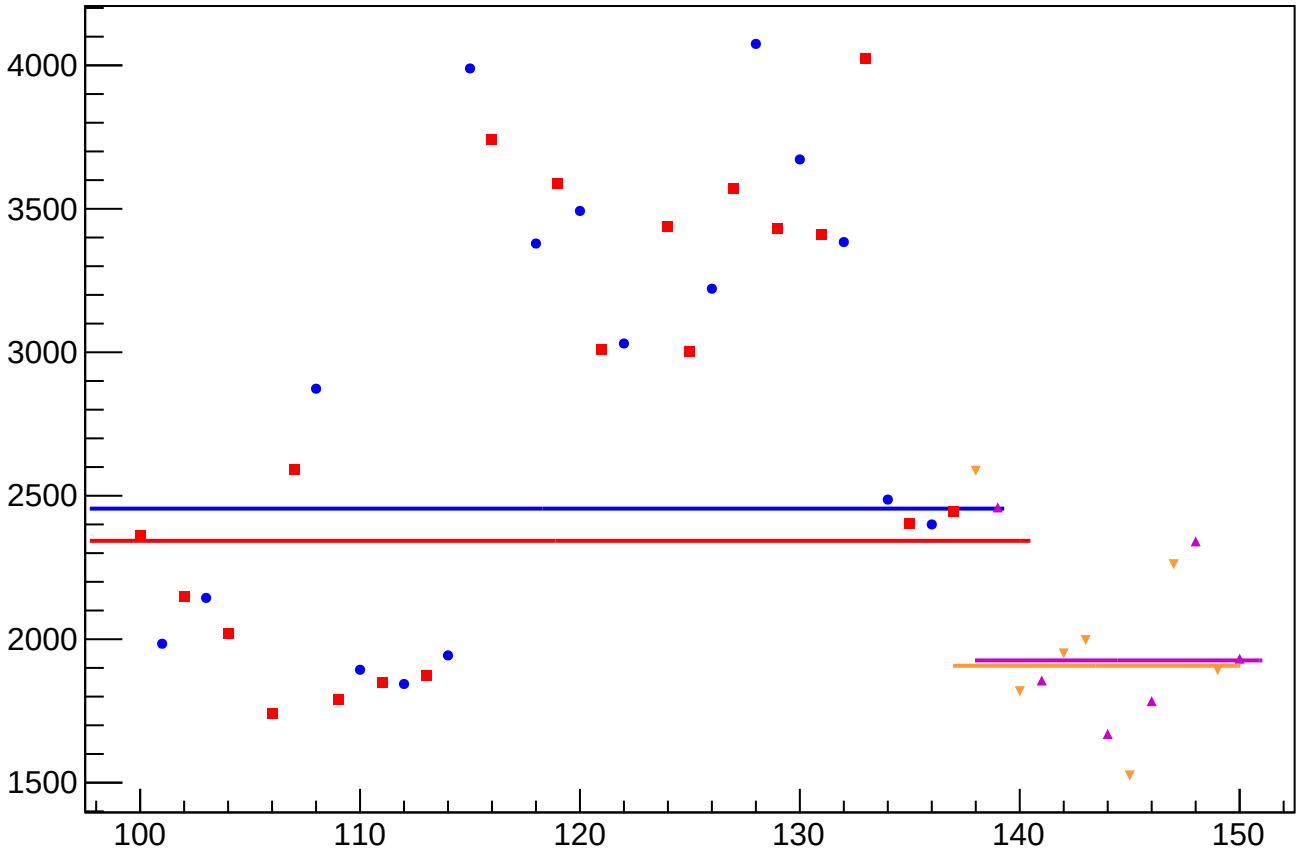
Left: -605.573+/-596.819 $\chi^2$/NDF: 27.3/12

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 547.514+/-633.363 $\chi^2$/NDF:26.6/21

Out: -330.591+/-611.464 $\chi^2$/NDF:41.3/25

All: 93.019+/-439.909 $\chi^2$/NDF: 68.9/47




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 1907.463+/-0.592 $\chi^2$/NDF:255573.7/6

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1926.092+/-0.602 $\chi^2$/NDF:186019.7/5

Left: 1916.612+/-0.422 $\chi^2$/NDF: 442080.4/12

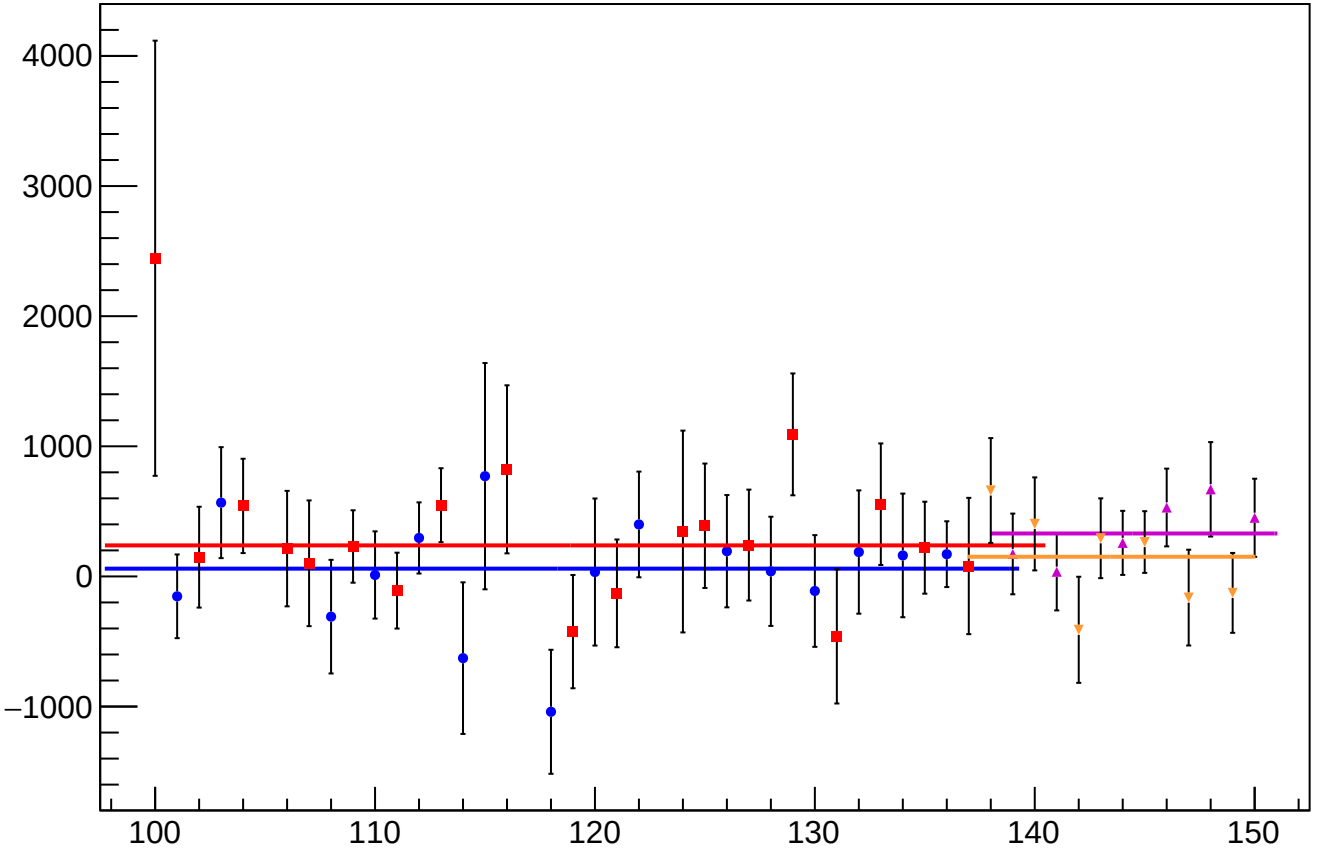
Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2162.500+/-0.448 $\chi^2$/NDF:1425284.3/21

Out: 2110.343+/-0.432 $\chi^2$/NDF:1578403.0/25

All: 2135.504+/-0.311 $\chi^2$/NDF: 3010707.3/47

# dit_asym_sam4_mean vs Slug, Sign Corrected




Right In: 59.728+/-99.230 $\chi^2$/NDF: 12.0/15

Left Out: 151.196+/-122.676 $\chi^2$/NDF:6.0/6

Right Out: 238.516+/-95.062 $\chi^2$/NDF: 14.9/18

Left In: 330.090+/-121.152 $\chi^2$/NDF:2.8/5

Left: 241.762+/-86.201 $\chi^2$/NDF: 9.9/12

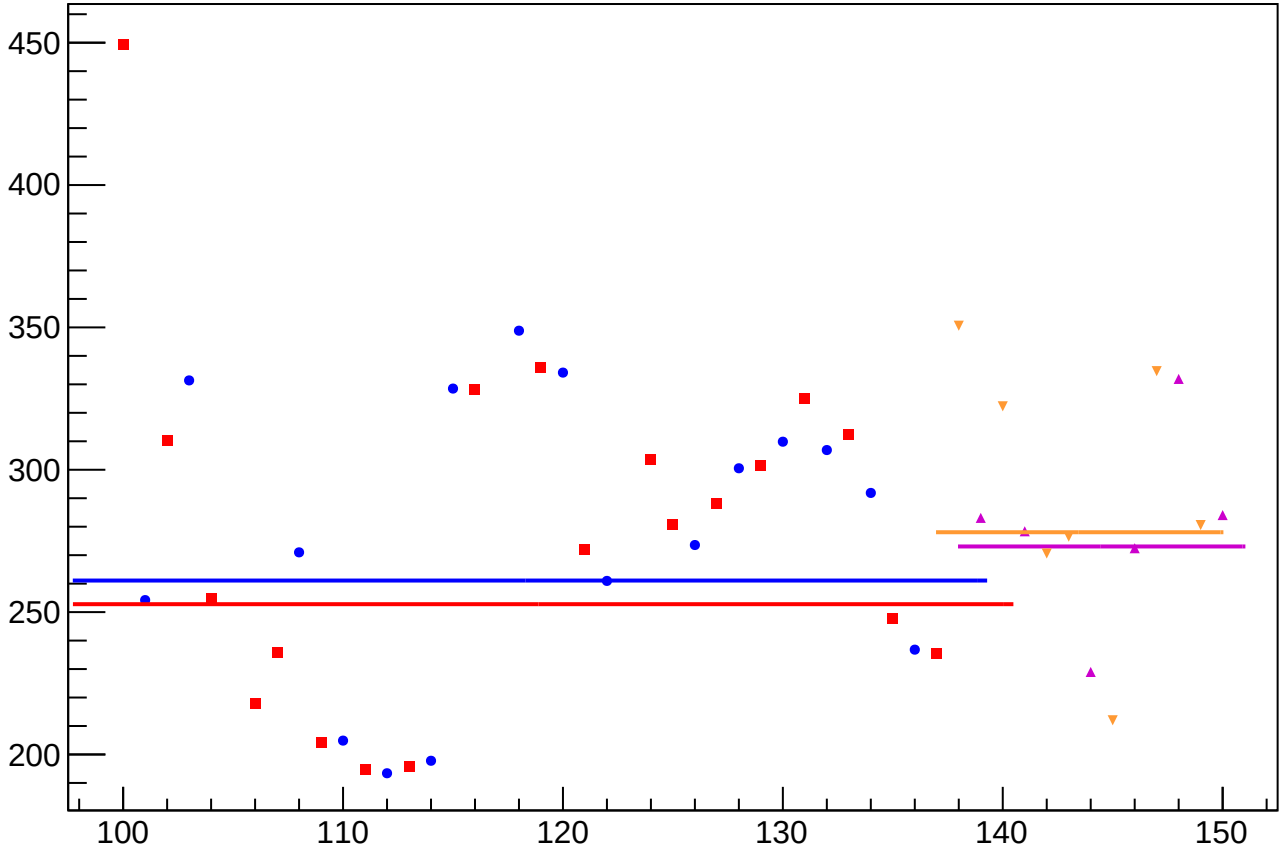
Right: 152.955+/-68.645 $\chi^2$/NDF: 28.6/34

In: 168.278+/-76.767 $\chi^2$/NDF:17.8/21

Out: 205.755+/-75.142 $\chi^2$/NDF:21.2/25

All: 187.417+/-53.699 $\chi^2$/NDF: 39.1/47

# dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462662.2/15

Left Out: 278.056+/-0.087 $\chi^2$/NDF:298998.2/6

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537290.6/18

Left In: 273.058+/-0.086 $\chi^2$/NDF:122208.7/5

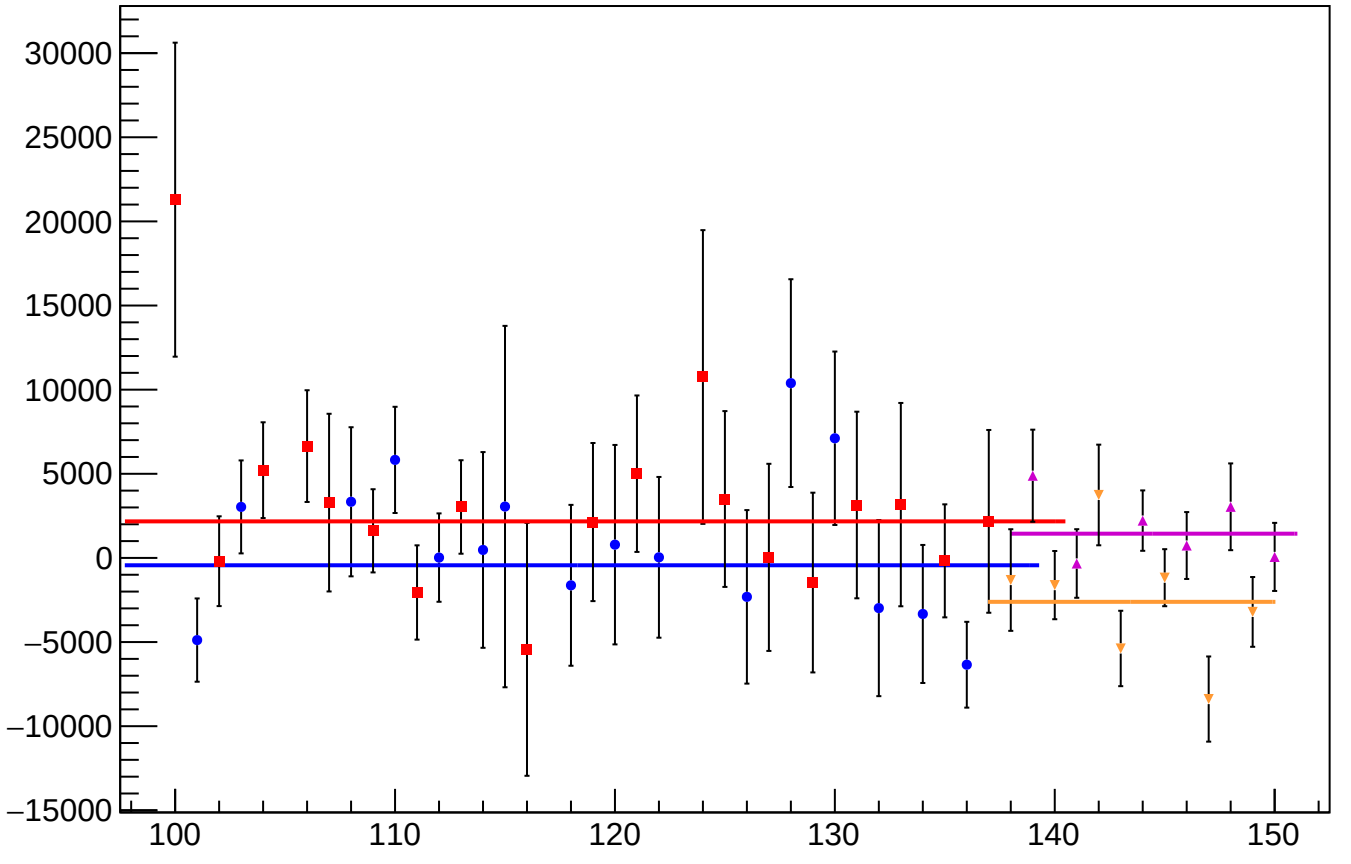
Left: 275.526+/-0.061 $\chi^2$/NDF: 422887.7/12

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007252.4/34

In: 265.894+/-0.054 $\chi^2$/NDF:596553.3/21

Out: 262.268+/-0.053 $\chi^2$/NDF:889307.9/25

All: 264.042+/-0.038 $\chi^2$/NDF: 1488140.9/47




Right In: -436.732+/-955.134 $\chi^2$/NDF: 21.2/15

Left Out: -2609.787+/-844.905 $\chi^2$/NDF:12.5/6

Right Out: 2172.091+/-901.102 $\chi^2$/NDF: 14.0/18

Left In: 1440.624+/-866.303 $\chi^2$/NDF:3.5/5

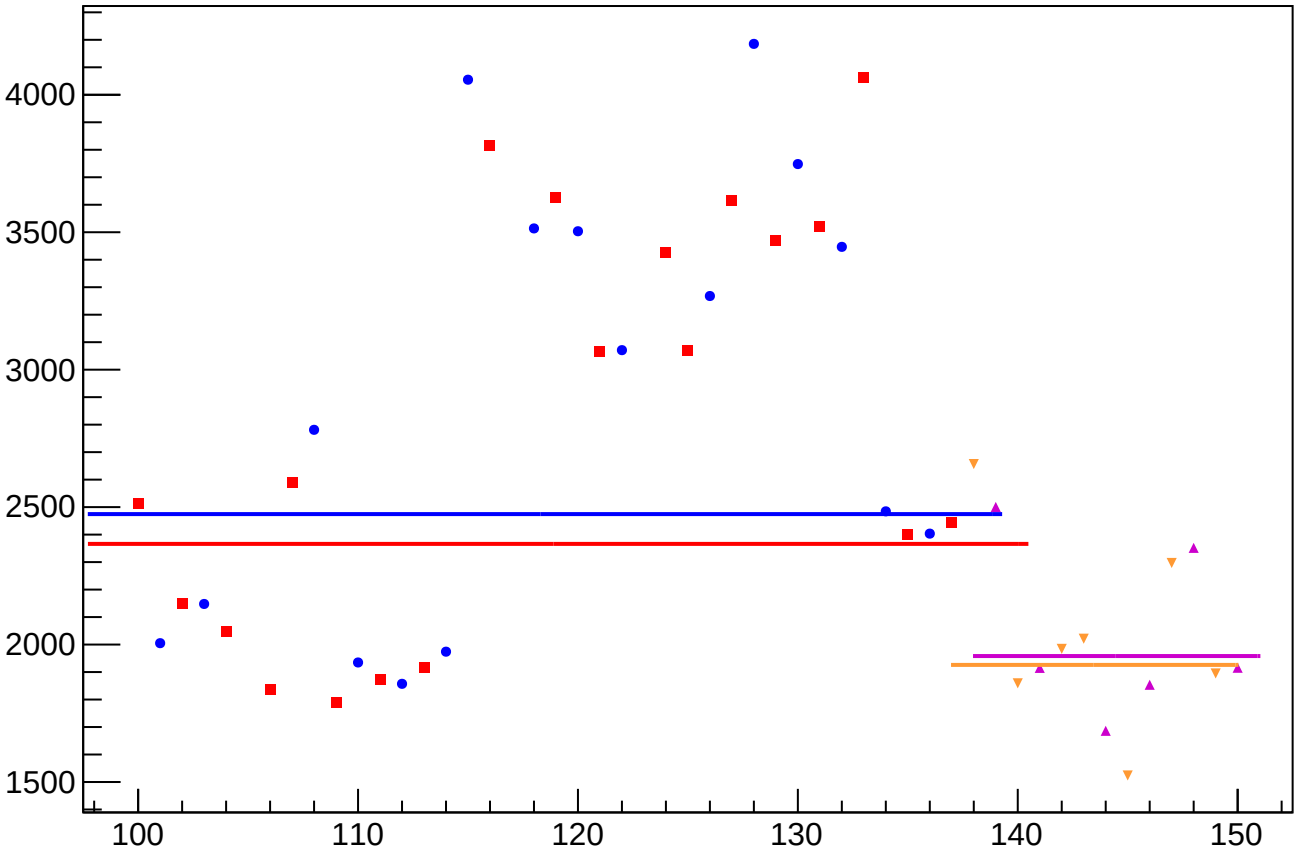
Left: -635.223+/-604.861 $\chi^2$/NDF: 27.2/12

Right: 943.553+/-655.445 $\chi^2$/NDF: 39.1/34

In: 593.287+/-641.681 $\chi^2$/NDF:26.8/21

Out: -372.600+/-616.348 $\chi^2$/NDF:41.5/25

All: 90.901+/-444.510 $\chi^2$/NDF: 69.5/47




Right In: 2474.622+/-0.675 $\chi^2$/NDF: 916250.9/15

Left Out: 1926.009+/-0.597 $\chi^2$/NDF:279680.2/6

Right Out: 2366.221+/-0.637 $\chi^2$/NDF: 1077175.3/18

Left In: 1958.232+/-0.613 $\chi^2$/NDF:178418.4/5

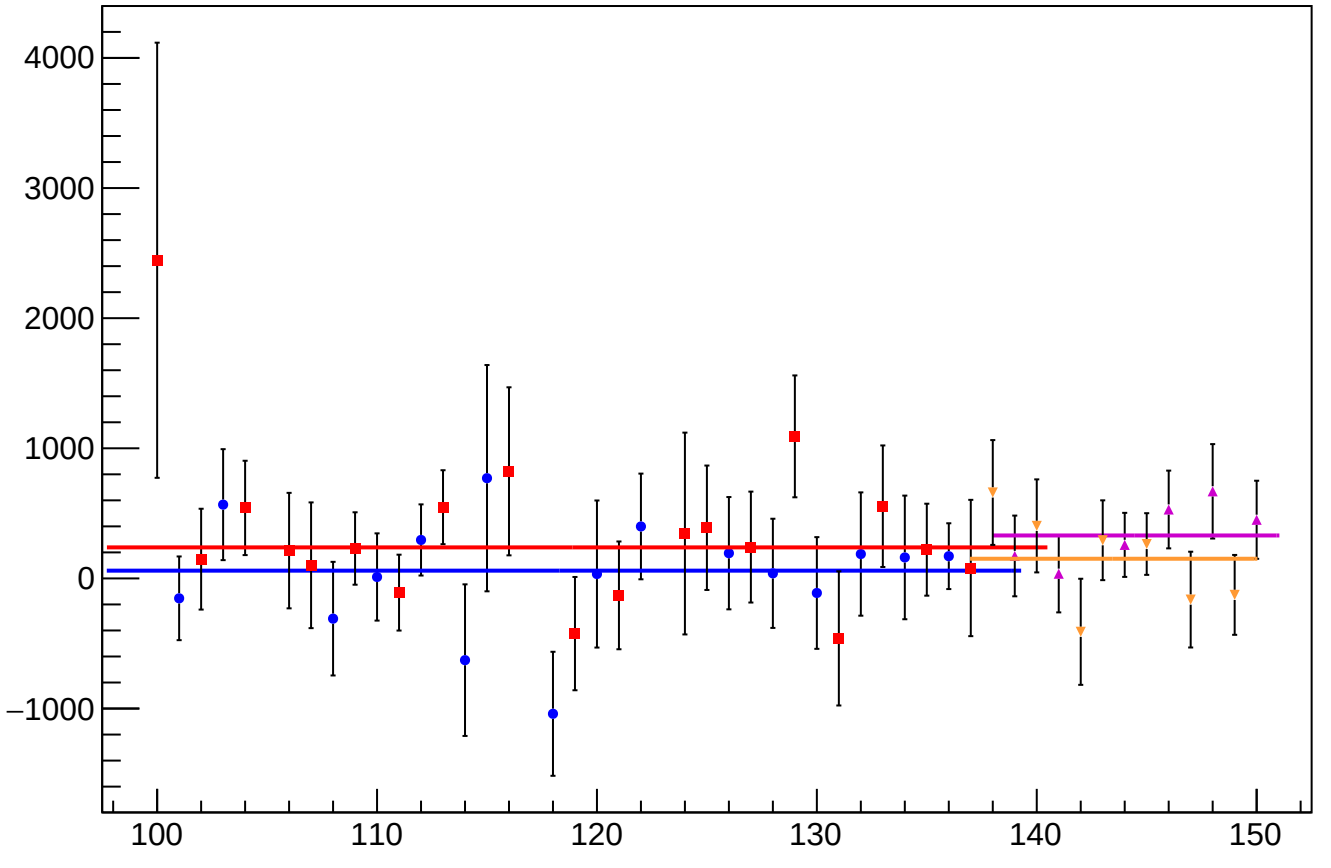
Left: 1941.718+/-0.428 $\chi^2$/NDF: 459516.7/12

Right: 2417.269+/-0.463 $\chi^2$/NDF: 2007056.0/34

In: 2191.303+/-0.454 $\chi^2$/NDF:1415411.1/21

Out: 2131.961+/-0.436 $\chi^2$/NDF:1610860.3/25

All: 2160.437+/-0.314 $\chi^2$/NDF: 3035167.9/47




Right In: 59.734+/-99.230 $\chi^2$/NDF: 12.0/15

Left Out: 151.196+/-122.676 $\chi^2$/NDF:6.0/6

Right Out: 238.515+/-95.062 $\chi^2$/NDF: 14.9/18

Left In: 330.092+/-121.152 $\chi^2$/NDF:2.8/5

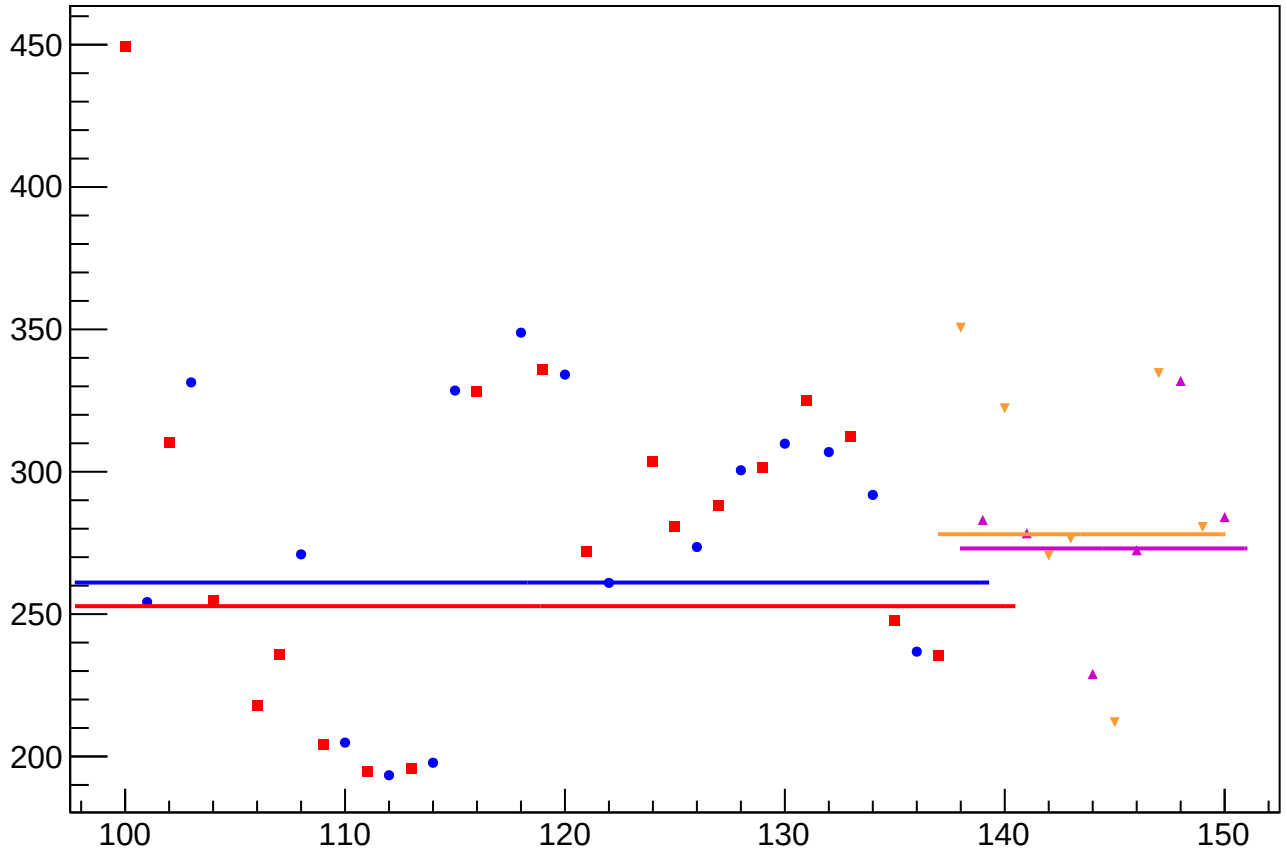
Left: 241.762+/-86.201 $\chi^2$/NDF: 9.9/12

Right: 152.957+/-68.645 $\chi^2$/NDF: 28.6/34

In: 168.282+/-76.767 $\chi^2$/NDF:17.8/21

Out: 205.754+/-75.142 $\chi^2$/NDF:21.2/25

All: 187.419+/-53.699 $\chi^2$/NDF: 39.1/47




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462665.3/15

Left Out: 278.056+/-0.087 $\chi^2$/NDF:298993.5/6

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537293.8/18

Left In: 273.058+/-0.086 $\chi^2$/NDF:122206.6/5

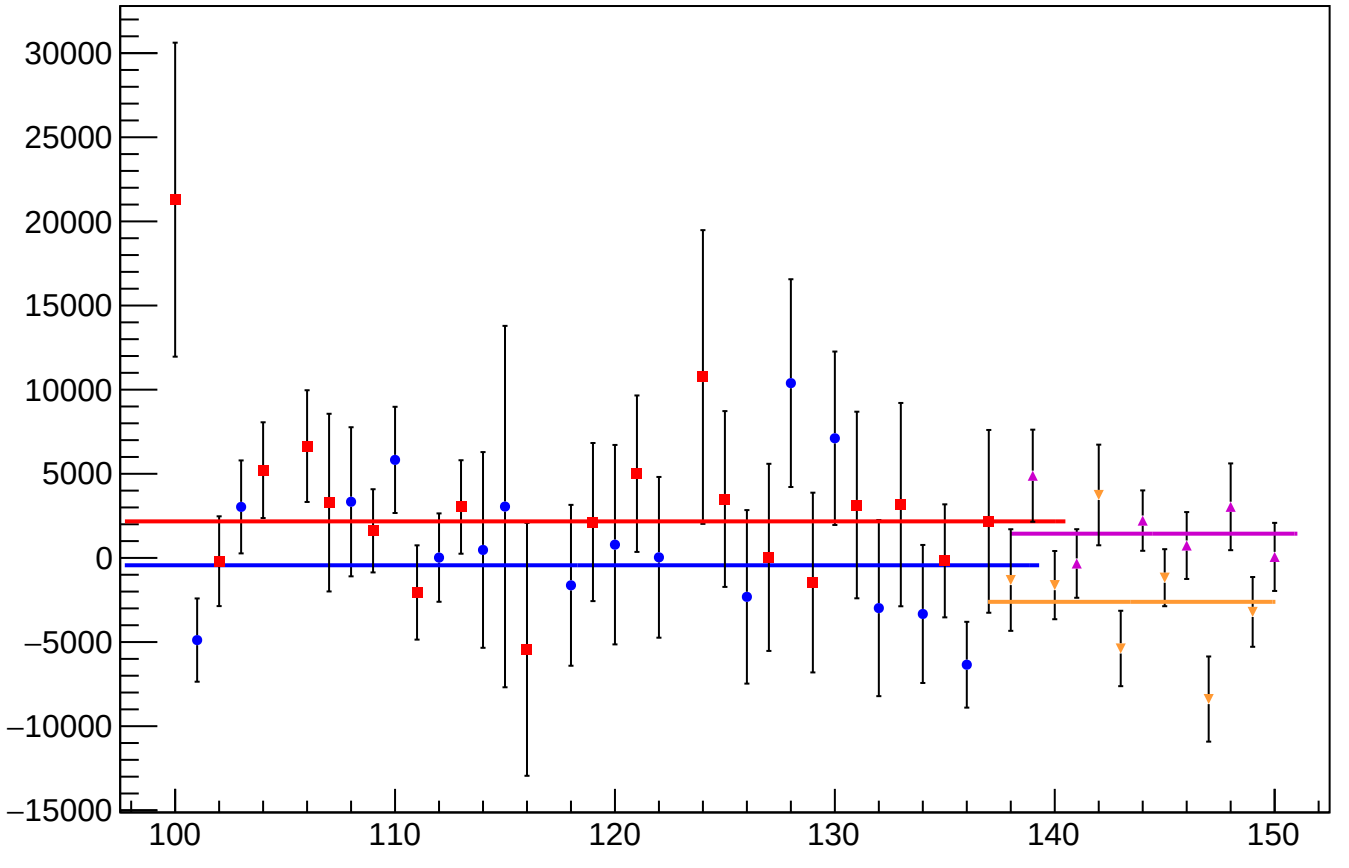
Left: 275.526+/-0.061 $\chi^2$/NDF: 422880.9/12

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007258.7/34

In: 265.895+/-0.054 $\chi^2$/NDF:596554.9/21

Out: 262.268+/-0.053 $\chi^2$/NDF:889308.4/25

All: 264.042+/-0.038 $\chi^2$/NDF: 1488143.0/47




Right In: -436.731+/-955.133 $\chi^2$/NDF: 21.2/15

Left Out: -2609.785+/-844.904 $\chi^2$/NDF:12.5/6

Right Out: 2172.089+/-901.101 $\chi^2$/NDF: 14.0/18

Left In: 1440.625+/-866.303 $\chi^2$/NDF:3.5/5

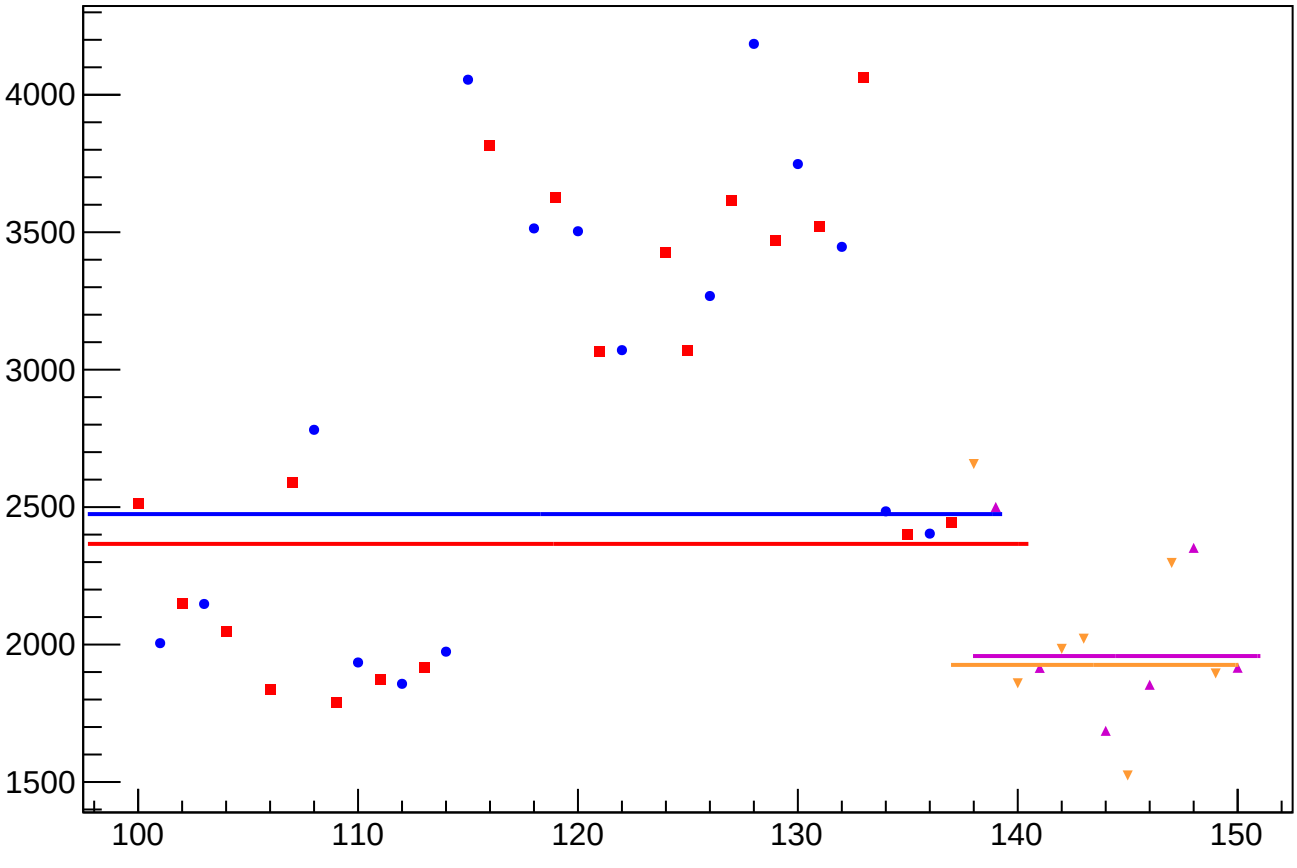
Left: -635.223+/-604.861 $\chi^2$/NDF: 27.2/12

Right: 943.553+/-655.444 $\chi^2$/NDF: 39.1/34

In: 593.287+/-641.681 $\chi^2$/NDF:26.8/21

Out: -372.600+/-616.347 $\chi^2$/NDF:41.5/25

All: 90.901+/-444.510 $\chi^2$/NDF: 69.5/47




Right In: 2474.620+/-0.675 $\chi^2$/NDF: 916254.1/15

Left Out: 1926.007+/-0.597 $\chi^2$/NDF:279682.9/6

Right Out: 2366.219+/-0.637 $\chi^2$/NDF: 1077177.7/18

Left In: 1958.232+/-0.613 $\chi^2$/NDF:178418.8/5

Left: 1941.717+/-0.428 $\chi^2$/NDF: 459519.9/12

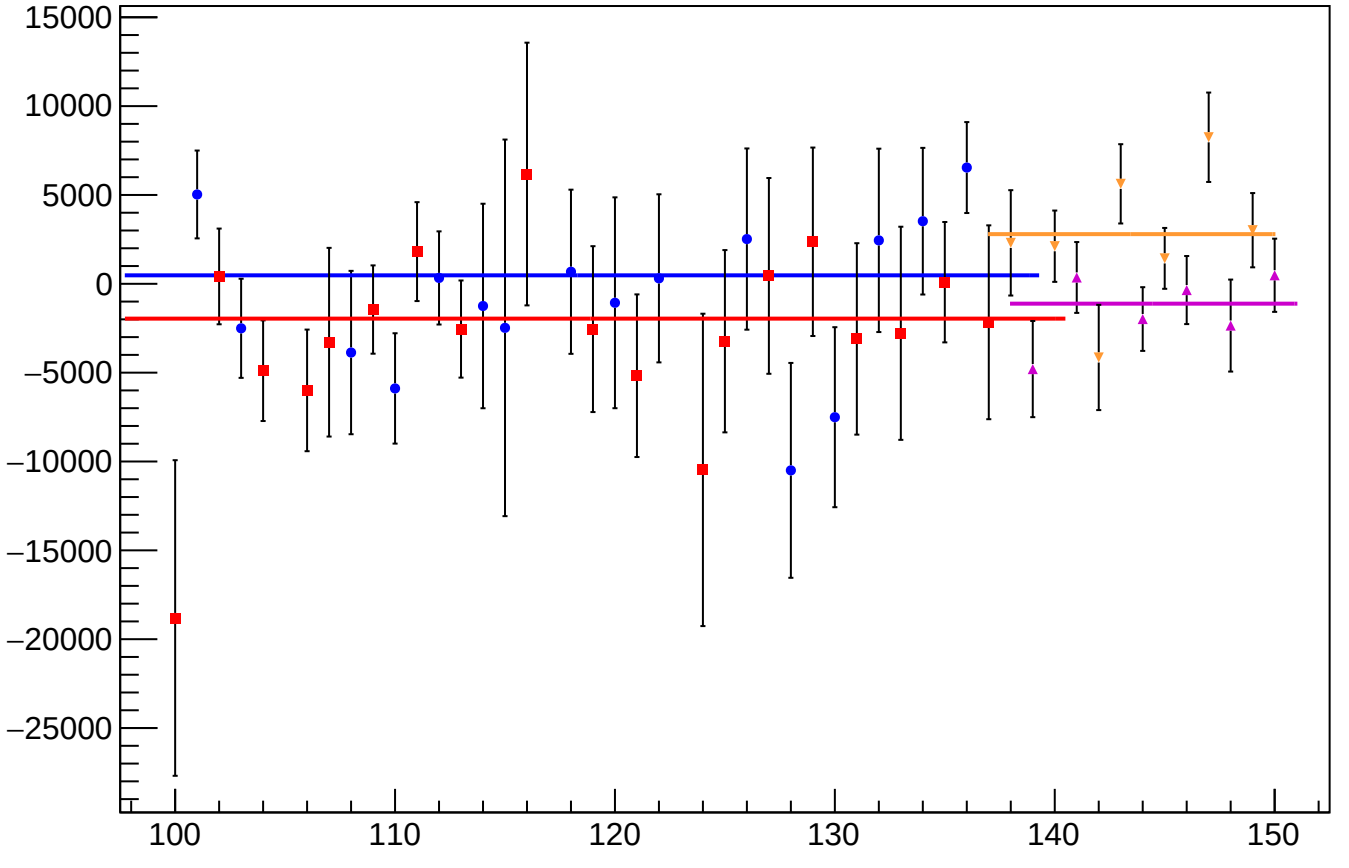
Right: 2417.267+/-0.463 $\chi^2$/NDF: 2007061.7/34

In: 2191.302+/-0.454 $\chi^2$/NDF:1415413.3/21

Out: 2131.959+/-0.436 $\chi^2$/NDF:1610866.4/25

All: 2160.436+/-0.314 $\chi^2$/NDF: 3035176.6/47

# asym_sam4_mean vs Slug, Sign Corrected




Right In: 477.284+/-952.752 $\chi^2$/NDF: 22.1/15

Left Out: 2795.526+/-843.653 $\chi^2$/NDF:12.6/6

Right Out: -1959.491+/-899.702 $\chi^2$/NDF: 12.8/18

Left In: -1117.322+/-858.462 $\chi^2$/NDF:3.6/5

Left: 873.142+/-601.720 $\chi^2$/NDF: 26.8/12

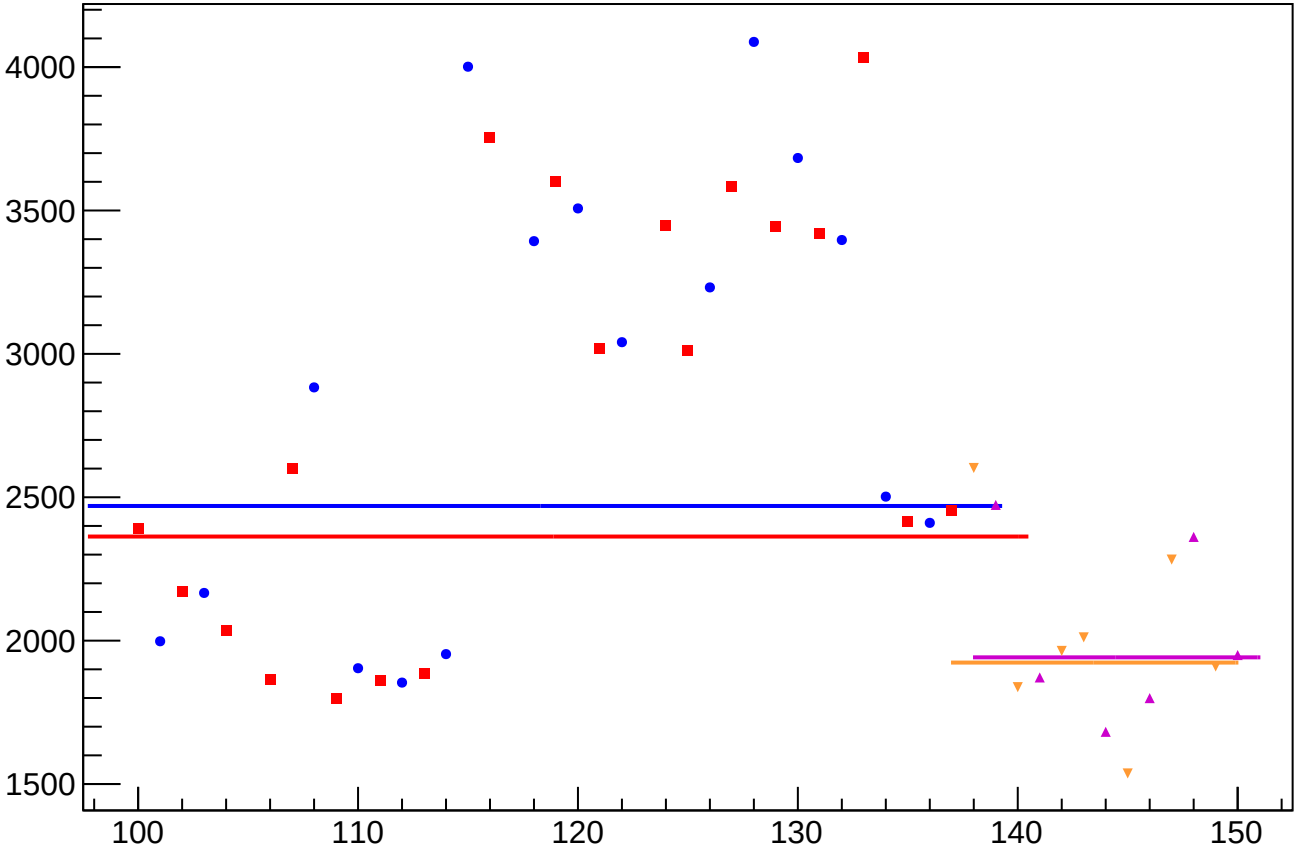
Right: -810.830+/-654.136 $\chi^2$/NDF: 38.4/34

In: -402.808+/-637.762 $\chi^2$/NDF:27.3/21

Out: 570.734+/-615.414 $\chi^2$/NDF:40.3/25

All: 101.318+/-442.853 $\chi^2$/NDF: 68.8/47

# asym_sam4_rms vs Slug, Sign Corrected




Right In: 2469.639+/-0.674 $\chi^2$/NDF: 886179.0/15

Left Out: 1923.551+/-0.597 $\chi^2$/NDF:254667.7/6

Right Out: 2363.052+/-0.636 $\chi^2$/NDF: 1043344.3/18

Left In: 1941.785+/-0.607 $\chi^2$/NDF:185307.7/5

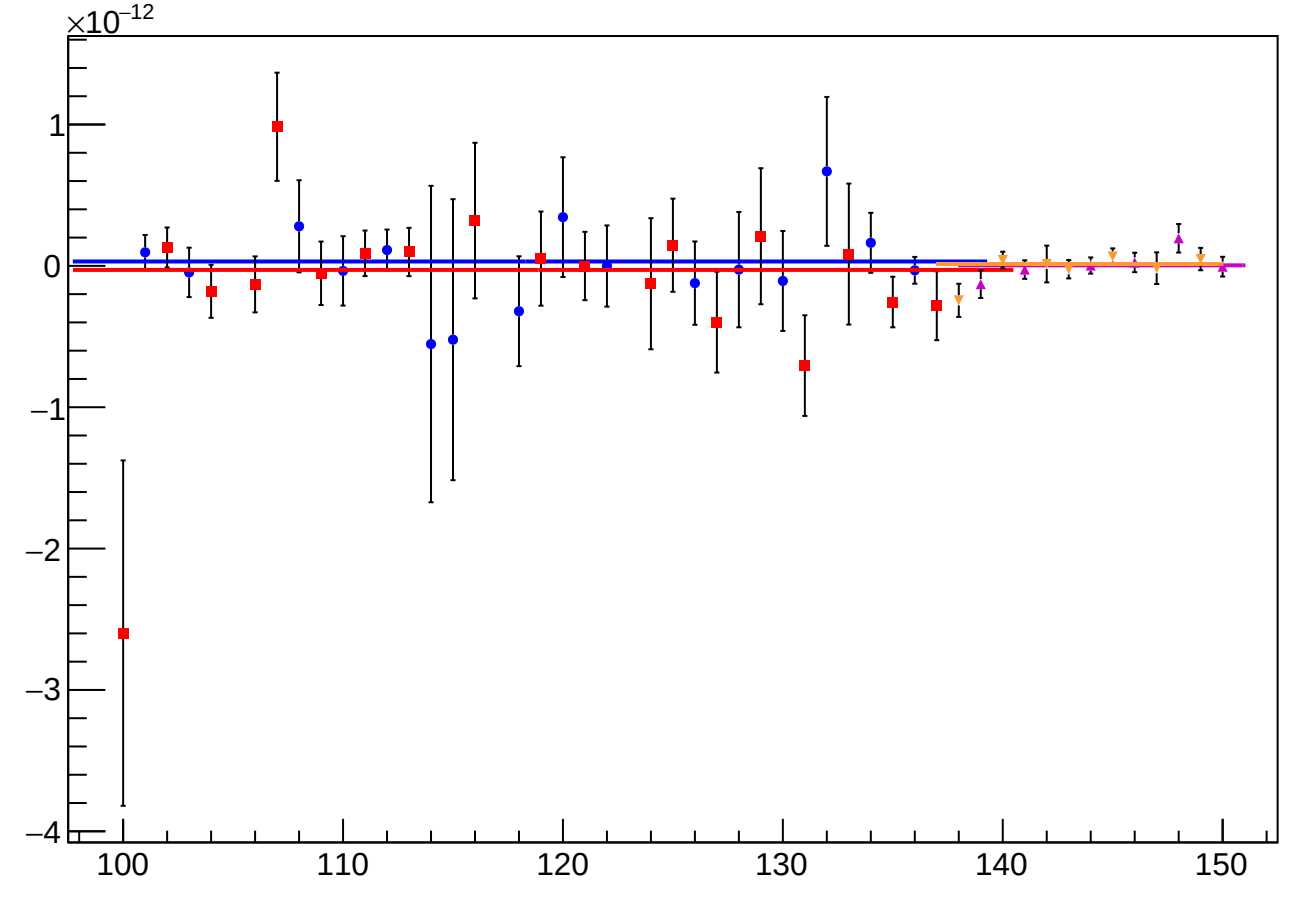
Left: 1932.509+/-0.425 $\chi^2$/NDF: 440434.4/12

Right: 2413.296+/-0.463 $\chi^2$/NDF: 1942755.0/34

In: 2178.306+/-0.451 $\chi^2$/NDF:1410310.1/21

Out: 2129.186+/-0.435 $\chi^2$/NDF:1551969.3/25

All: 2152.871+/-0.313 $\chi^2$/NDF: 2968422.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.7/5

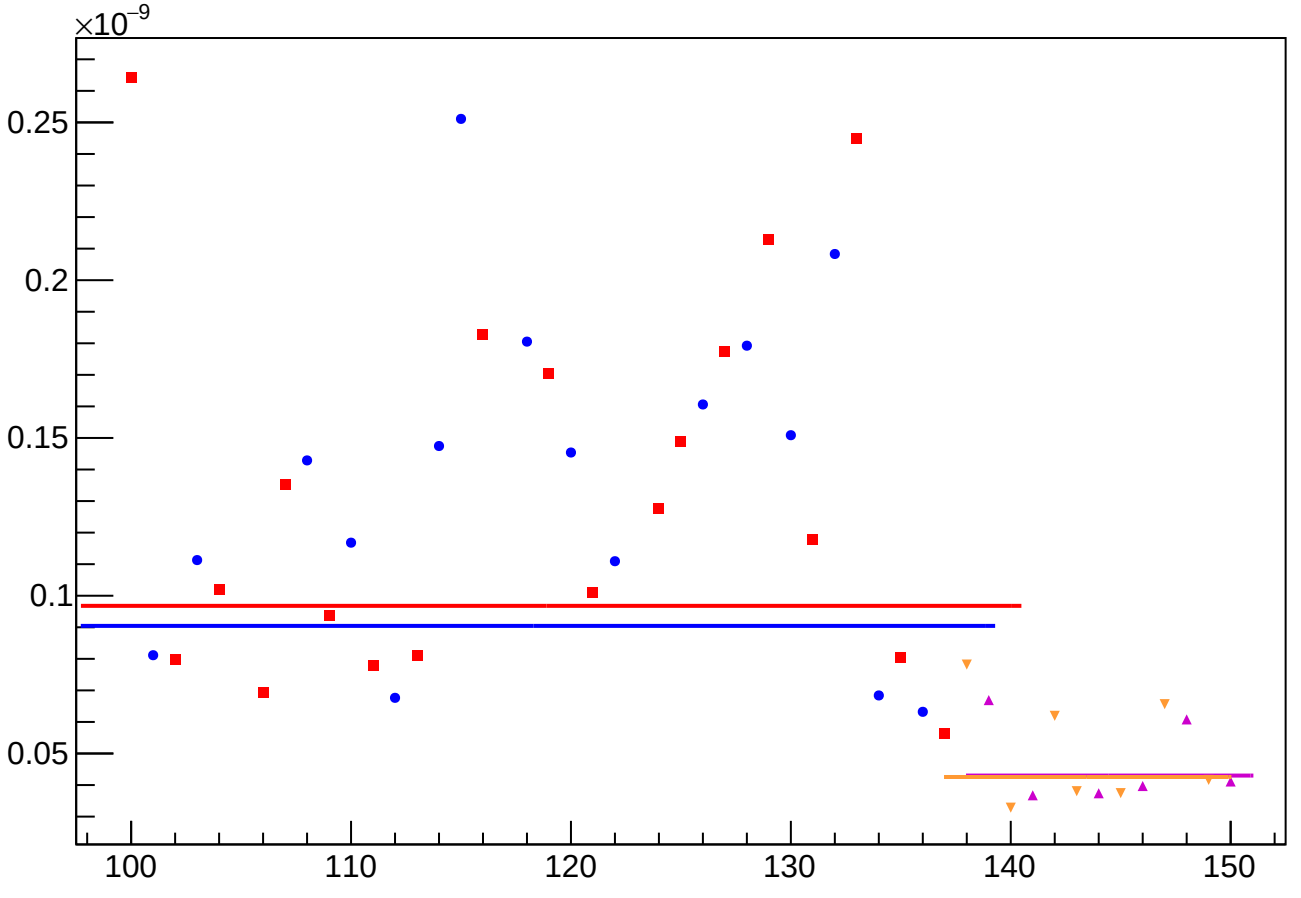
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:12.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 42.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 926723.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:394394.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 851500.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:224433.8/5

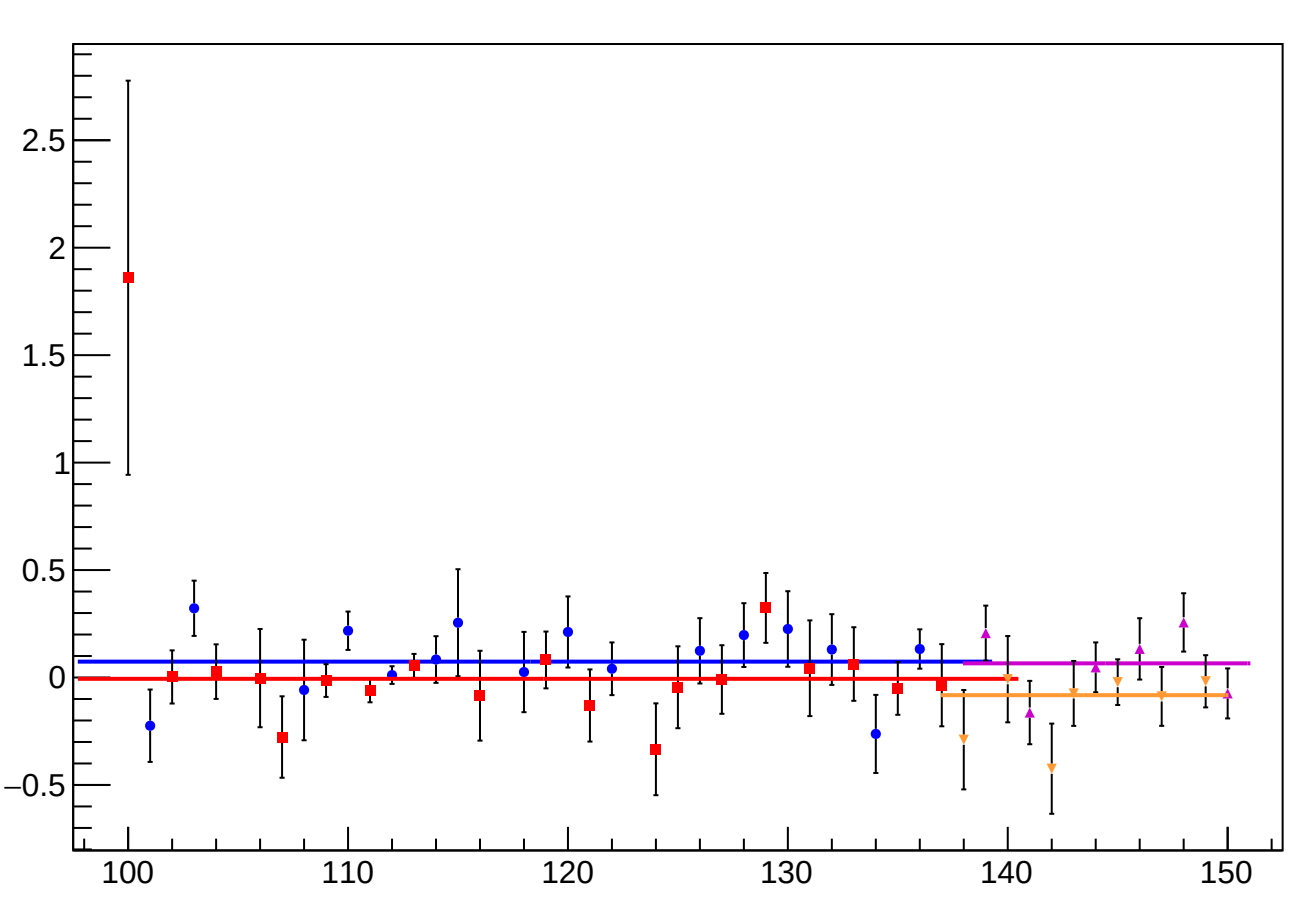
Left: 0.000+/-0.000 $\chi^2$/NDF: 619070.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 1791911.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:2391091.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2731512.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5122822.7/47




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.082+/-0.056 $\chi^2$/NDF:4.2/6

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.066+/-0.053 $\chi^2$/NDF:7.3/5

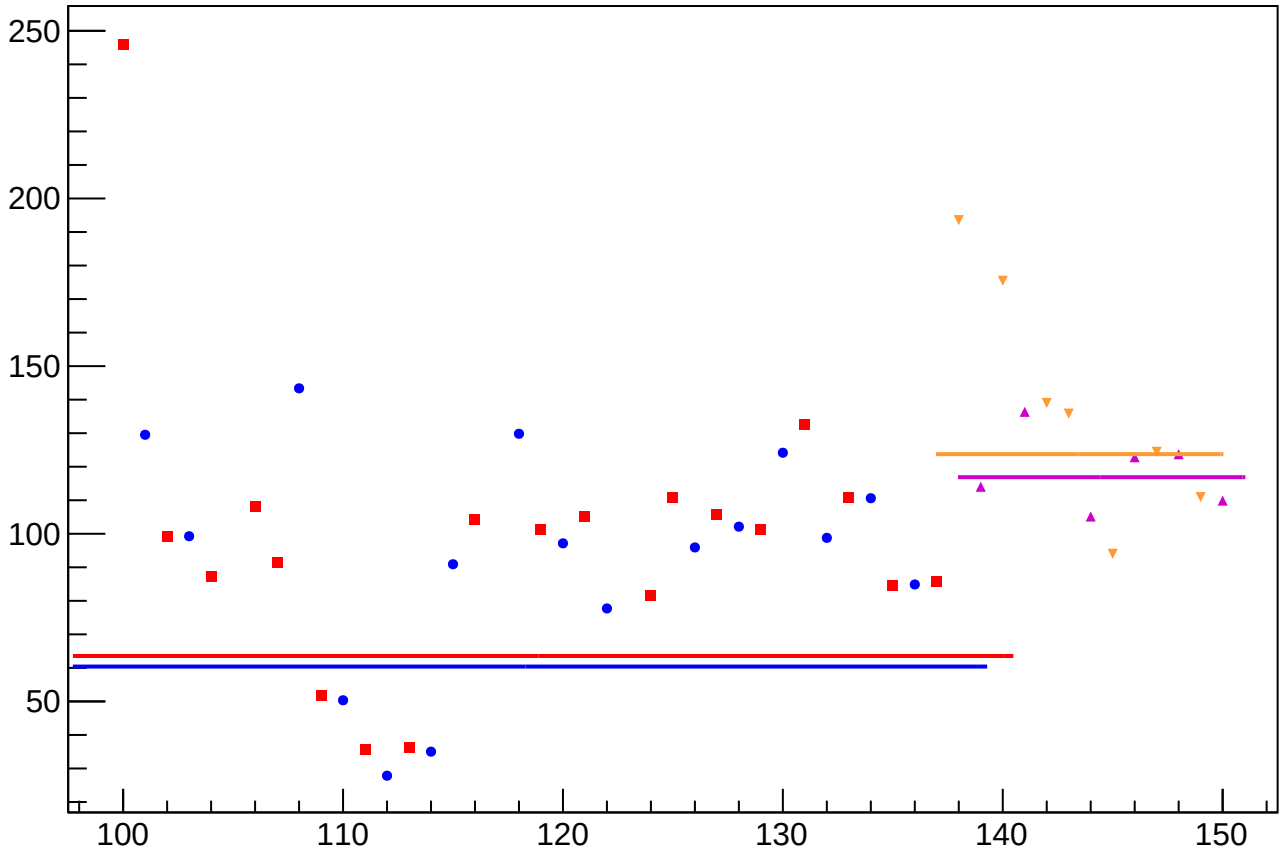
Left: -0.004+/-0.038 $\chi^2$/NDF: 15.2/12

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.072+/-0.024 $\chi^2$/NDF:26.3/21

Out: -0.020+/-0.024 $\chi^2$/NDF:22.1/25

All: 0.026+/-0.017 $\chi^2$/NDF: 55.8/47




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 123.751+/-0.040 $\chi^2$/NDF:516989.8/6

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 116.880+/-0.037 $\chi^2$/NDF:72220.4/5

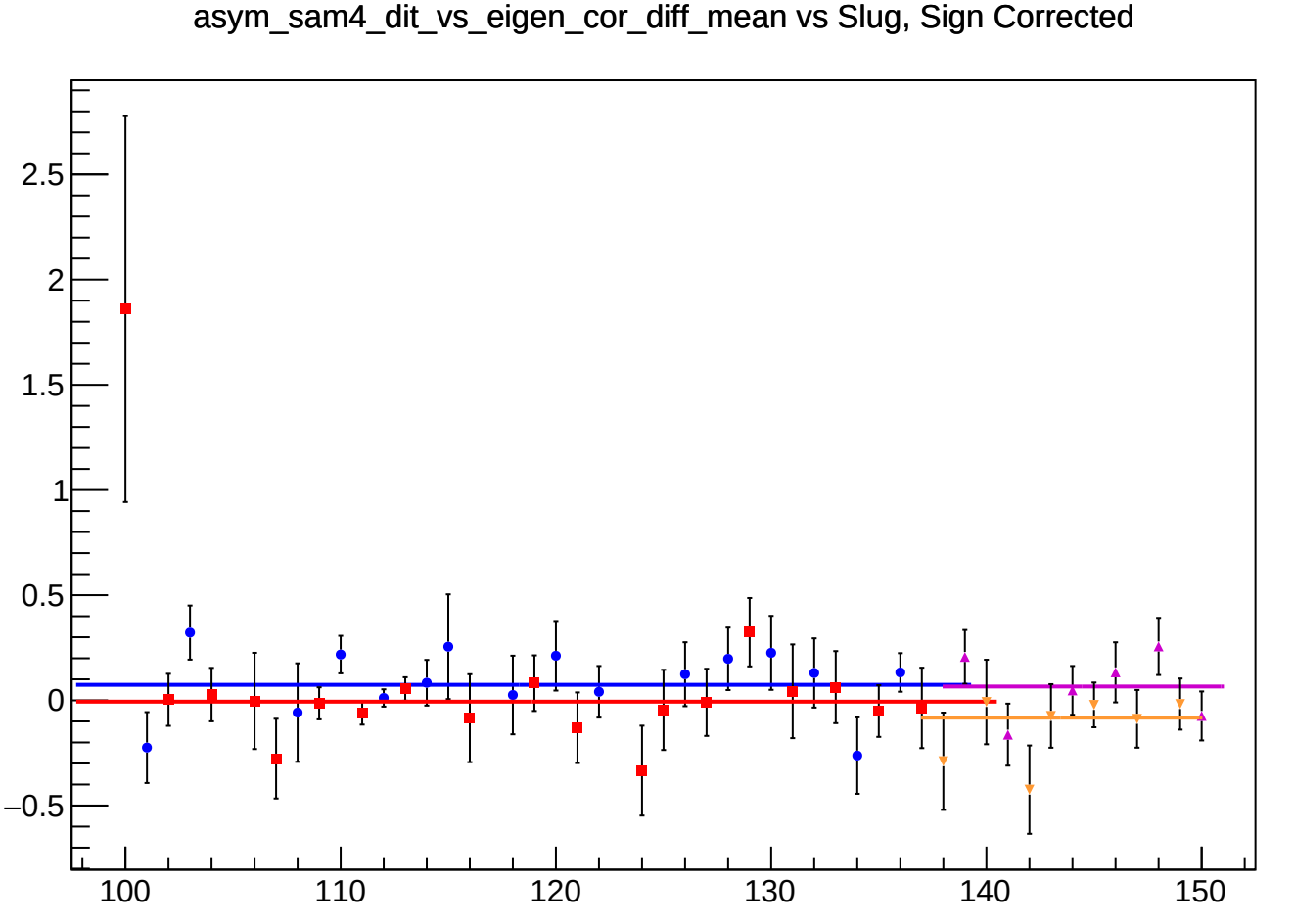
Left: 120.117+/-0.027 $\chi^2$/NDF: 605161.4/12

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 72.115+/-0.017 $\chi^2$/NDF:5423834.0/21

Out: 74.810+/-0.017 $\chi^2$/NDF:5054210.4/25

All: 73.455+/-0.012 $\chi^2$/NDF: 10490526.9/47




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.082+/-0.056 $\chi^2$/NDF:4.2/6

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.066+/-0.053 $\chi^2$/NDF:7.3/5

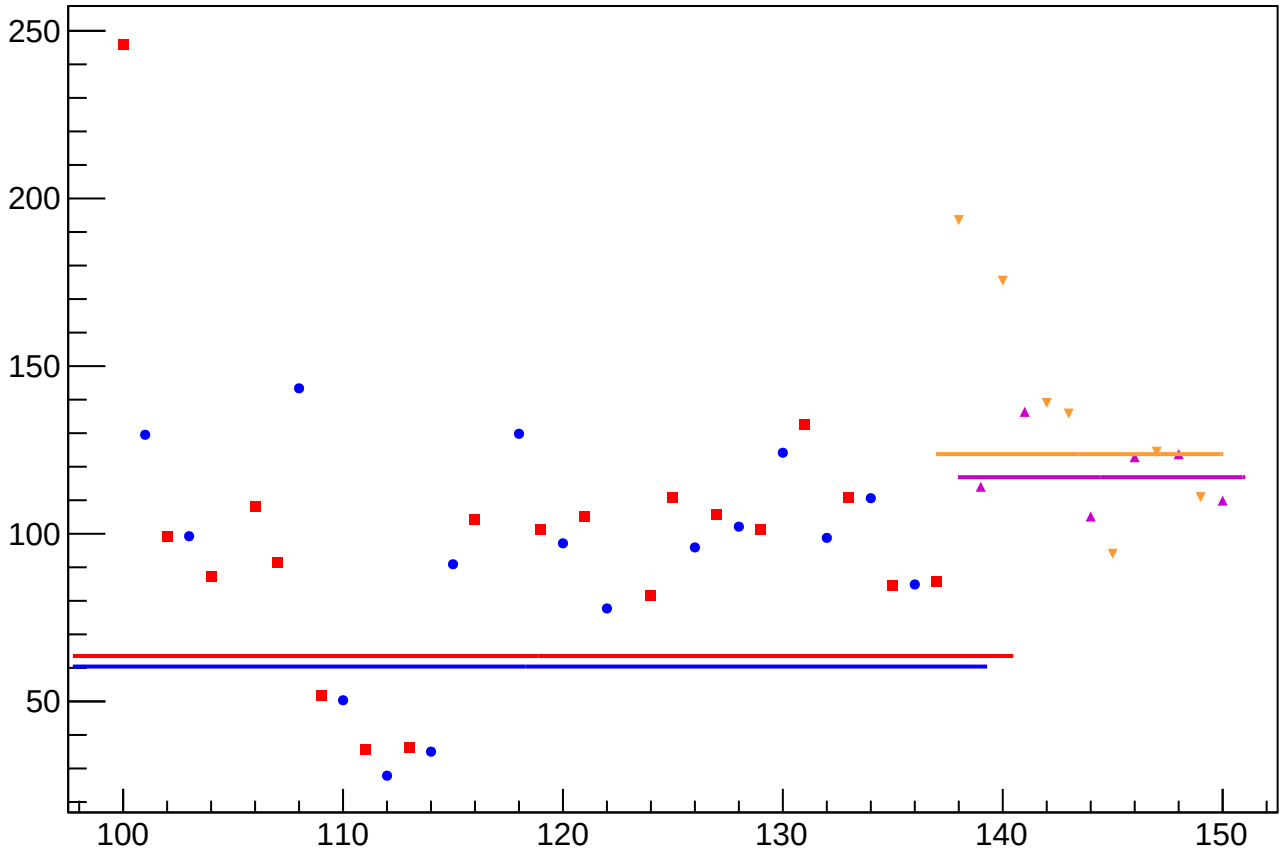
Left: -0.004+/-0.038 $\chi^2$/NDF: 15.2/12

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.072+/-0.024 $\chi^2$/NDF:26.3/21

Out: -0.020+/-0.024 $\chi^2$/NDF:22.1/25

All: 0.026+/-0.017 $\chi^2$/NDF: 55.8/47




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 123.751+/-0.040 $\chi^2$/NDF:516989.8/6

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 116.880+/-0.037 $\chi^2$/NDF:72220.4/5

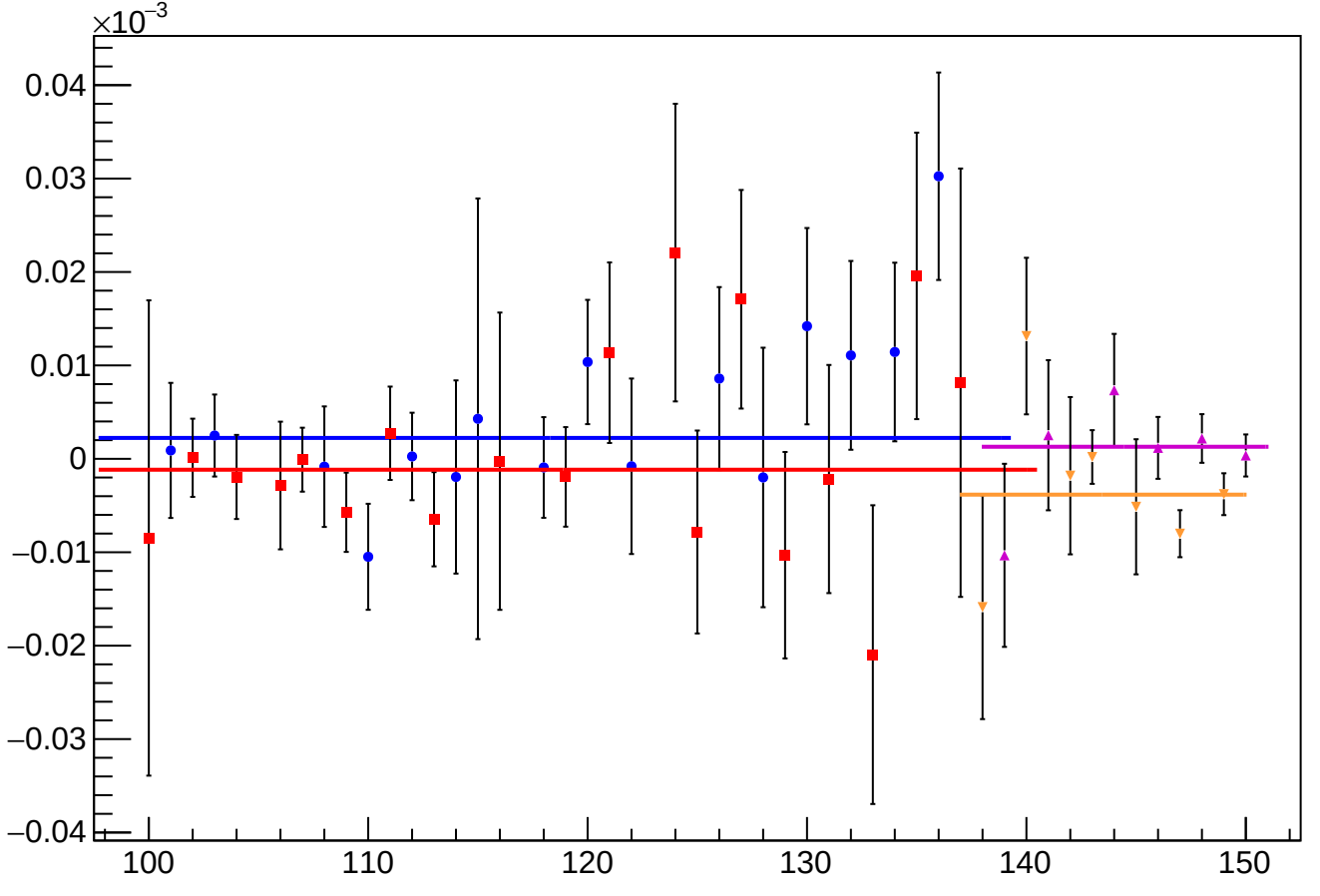
Left: 120.117+/-0.027 $\chi^2$/NDF: 605161.4/12

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 72.115+/-0.017 $\chi^2$/NDF:5423834.0/21

Out: 74.810+/-0.017 $\chi^2$/NDF:5054210.4/25

All: 73.455+/-0.012 $\chi^2$/NDF: 10490526.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.7/5

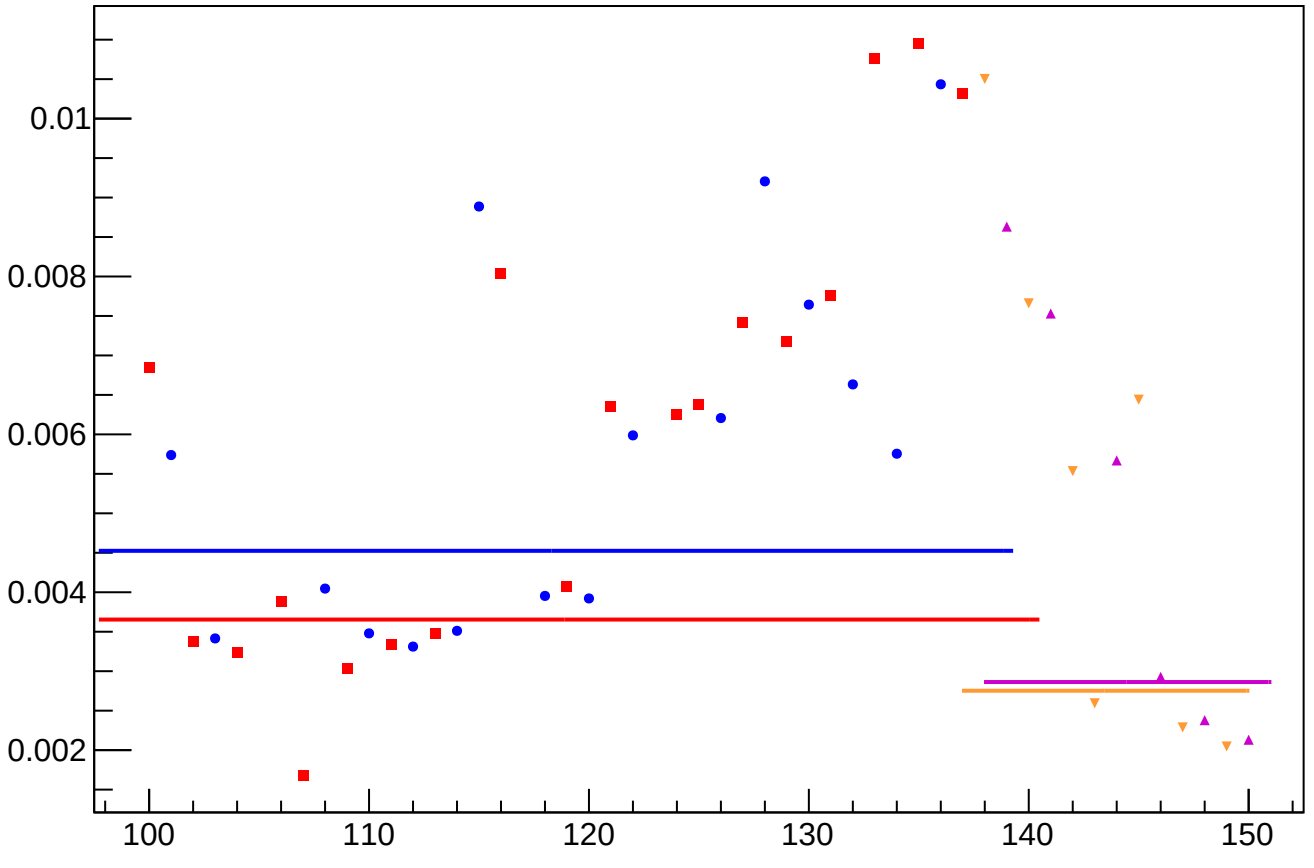
Left: -0.000+/-0.000 $\chi^2$/NDF: 19.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:25.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 54.1/47




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1721333.3/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:2534112.0/6

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2933246.9/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:2081554.5/5

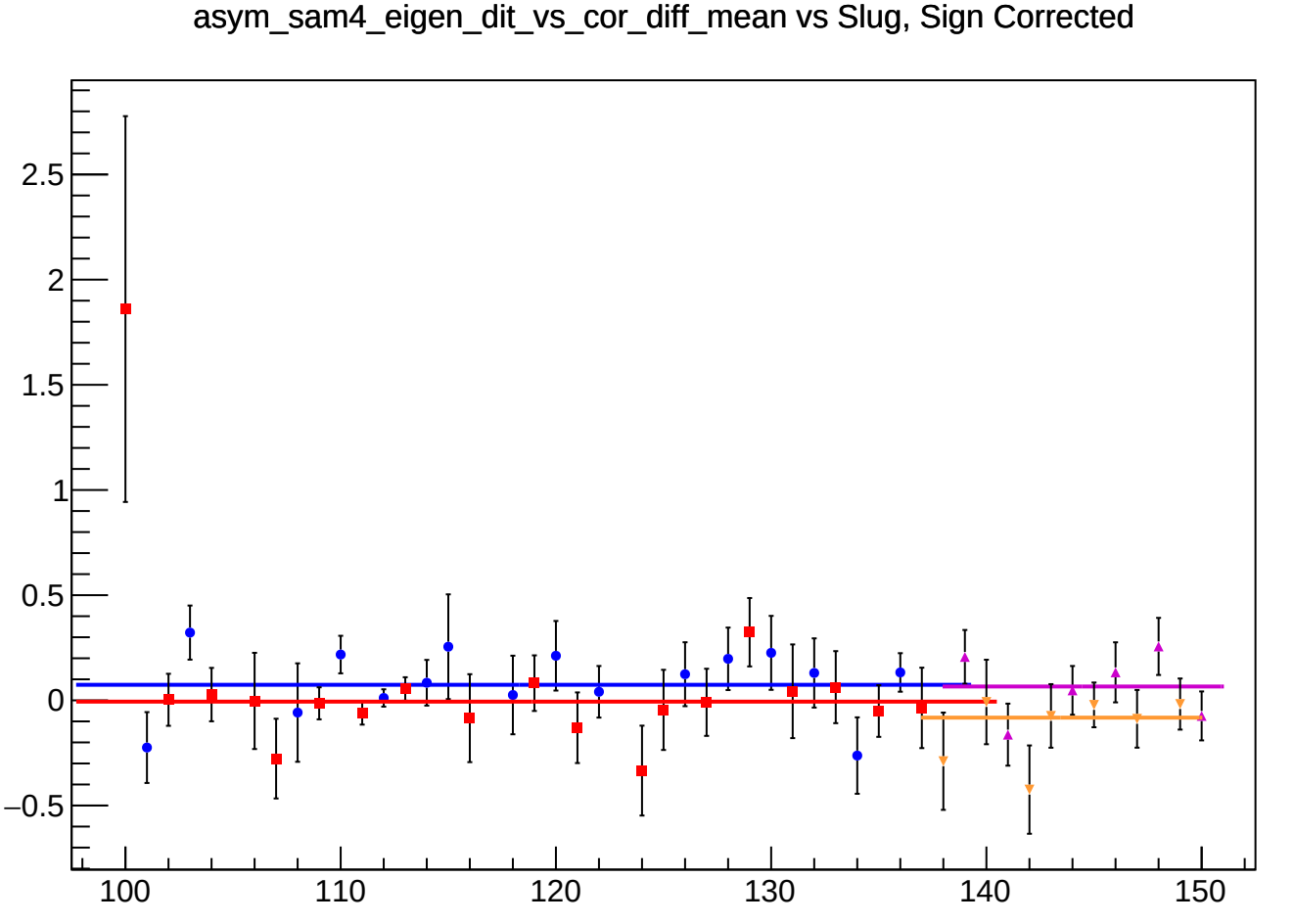
Left: 0.003+/-0.000 $\chi^2$/NDF: 4621868.3/12

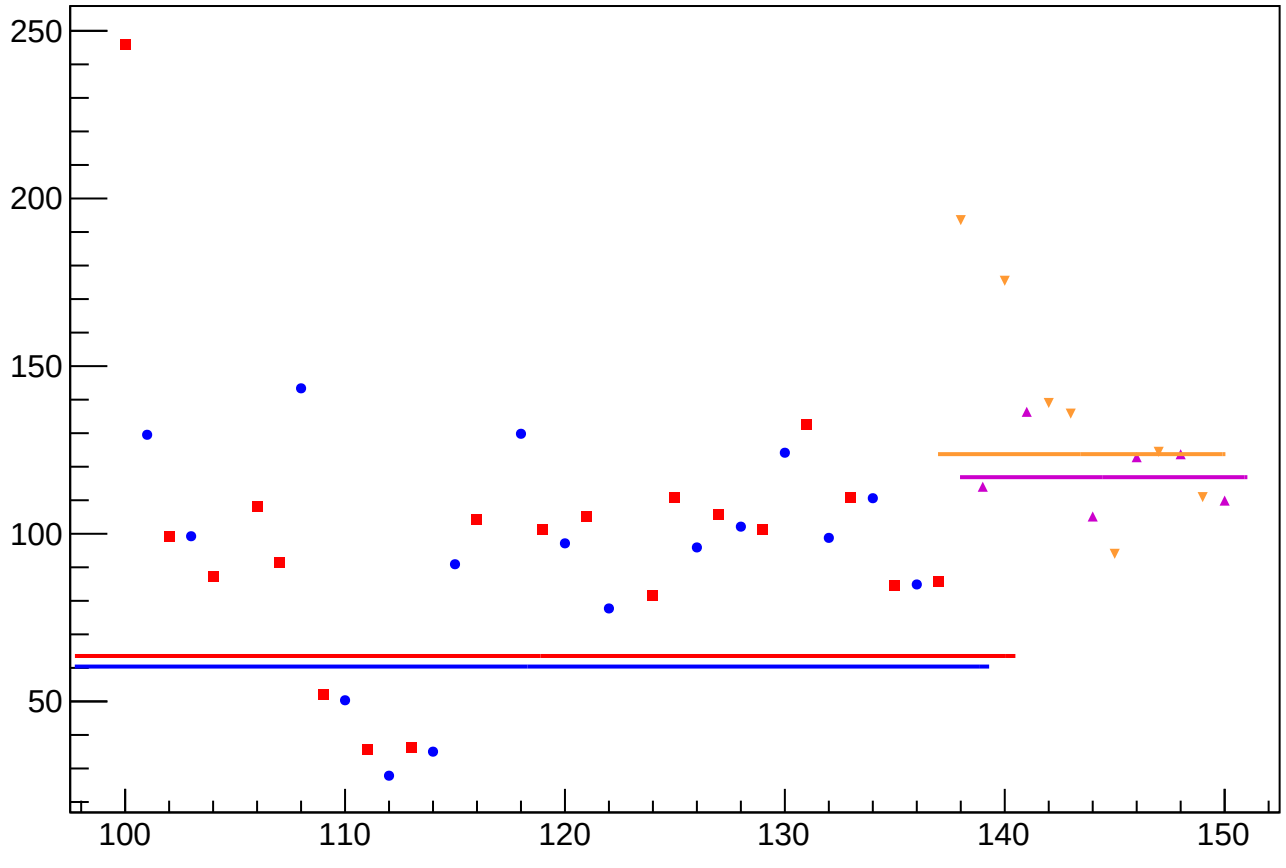
Right: 0.004+/-0.000 $\chi^2$/NDF: 4928784.4/34

In: 0.004+/-0.000 $\chi^2$/NDF:4840512.2/21

Out: 0.003+/-0.000 $\chi^2$/NDF:5861220.0/25

All: 0.003+/-0.000 $\chi^2$/NDF: 10802068.9/47


asym_sam4_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2.5
2
1.5
1
0.5
0
−0.5
100
110
120
130
140
150
Right In: 0.074+/-0.027 χ²/NDF: 19.0/15
Left Out: -0.082+/-0.056 χ²/NDF:4.2/6
Right Out: -0.006+/-0.027 χ²/NDF: 16.4/18
Left In: 0.066+/-0.053 χ²/NDF:7.3/5
Left: -0.004+/-0.038 χ²/NDF: 15.2/12
Right: 0.034+/-0.019 χ²/NDF: 39.8/34
In: 0.072+/-0.024 χ²/NDF:26.3/21
Out: -0.020+/-0.024 χ²/NDF:22.1/25
All: 0.026+/-0.017 χ²/NDF: 55.8/47




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 123.752+/-0.040 $\chi^2$/NDF:516964.2/6

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 116.881+/-0.037 $\chi^2$/NDF:72222.9/5

Left: 120.118+/-0.027 $\chi^2$/NDF: 605140.2/12

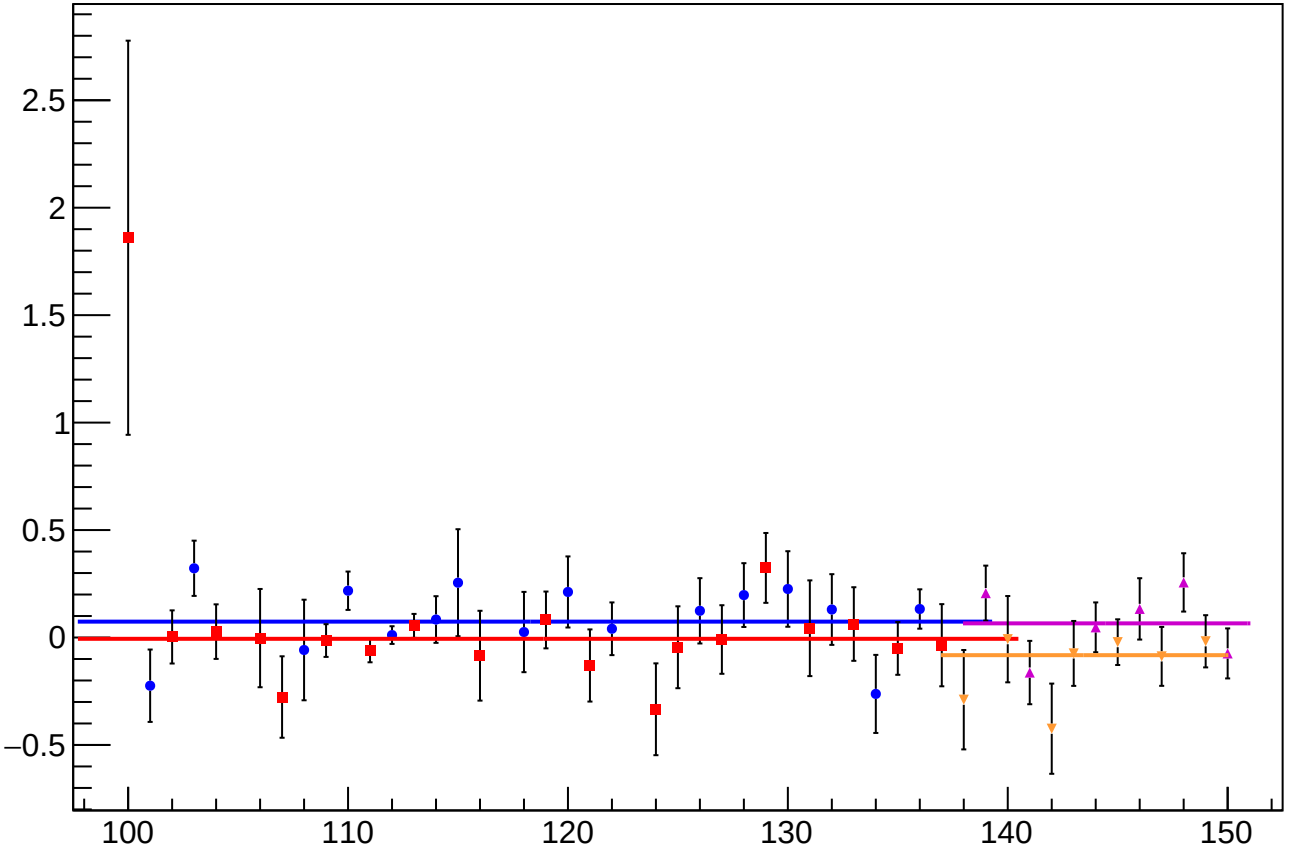
Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 72.113+/-0.017 $\chi^2$/NDF:5424276.5/21

Out: 74.808+/-0.017 $\chi^2$/NDF:5054630.0/25

All: 73.453+/-0.012 $\chi^2$/NDF: 10491392.2/47

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.082+/-0.056 $\chi^2$/NDF:4.2/6

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.066+/-0.053 $\chi^2$/NDF:7.3/5

Left: -0.004+/-0.038 $\chi^2$/NDF: 15.2/12

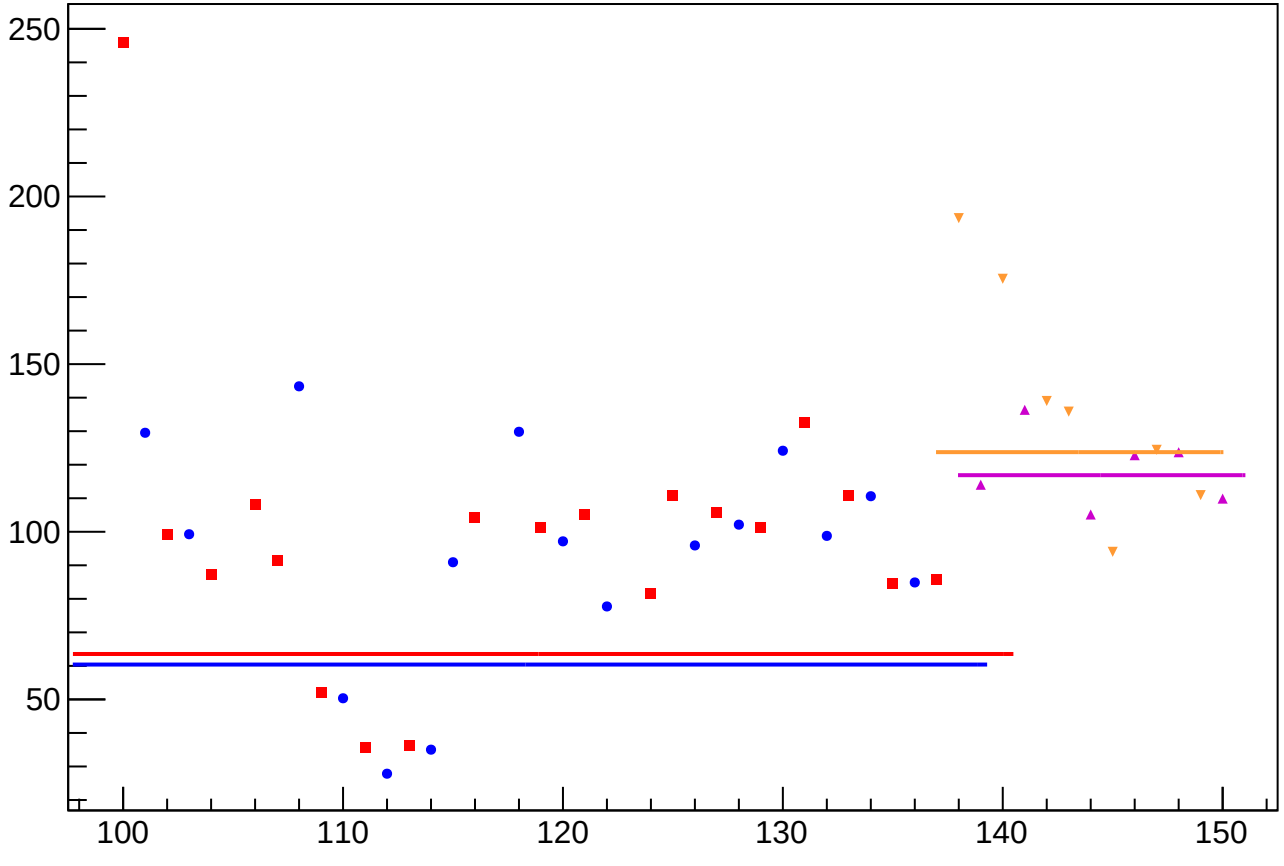
Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.072+/-0.024 $\chi^2$/NDF:26.3/21

Out: -0.020+/-0.024 $\chi^2$/NDF:22.1/25

All: 0.026+/-0.017 $\chi^2$/NDF: 55.8/47

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 123.752+/-0.040 $\chi^2$/NDF:516964.2/6

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 116.881+/-0.037 $\chi^2$/NDF:72222.9/5

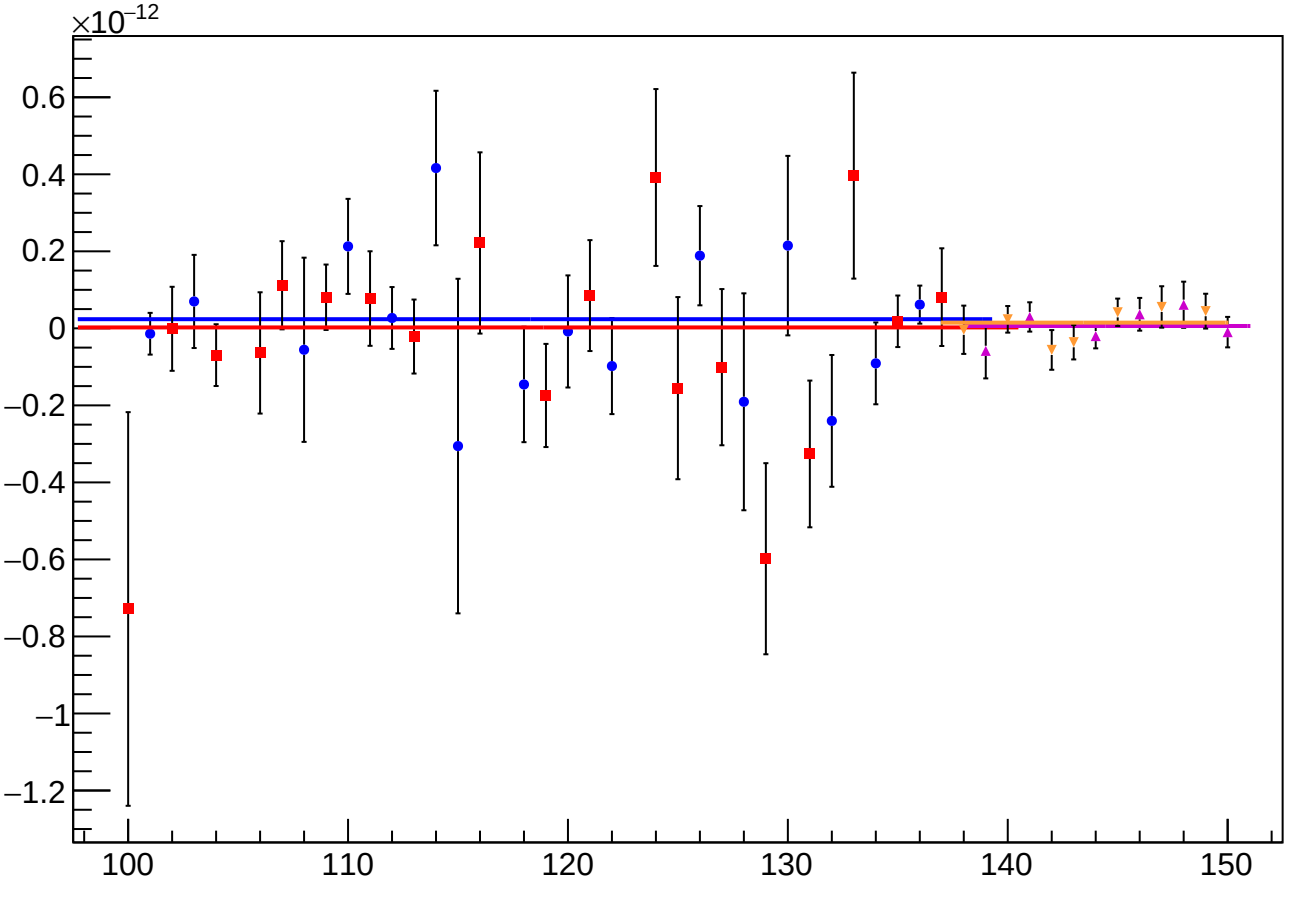
Left: 120.118+/-0.027 $\chi^2$/NDF: 605140.2/12

Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 72.113+/-0.017 $\chi^2$/NDF:5424276.5/21

Out: 74.808+/-0.017 $\chi^2$/NDF:5054630.0/25

All: 73.453+/-0.012 $\chi^2$/NDF: 10491392.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.4/5

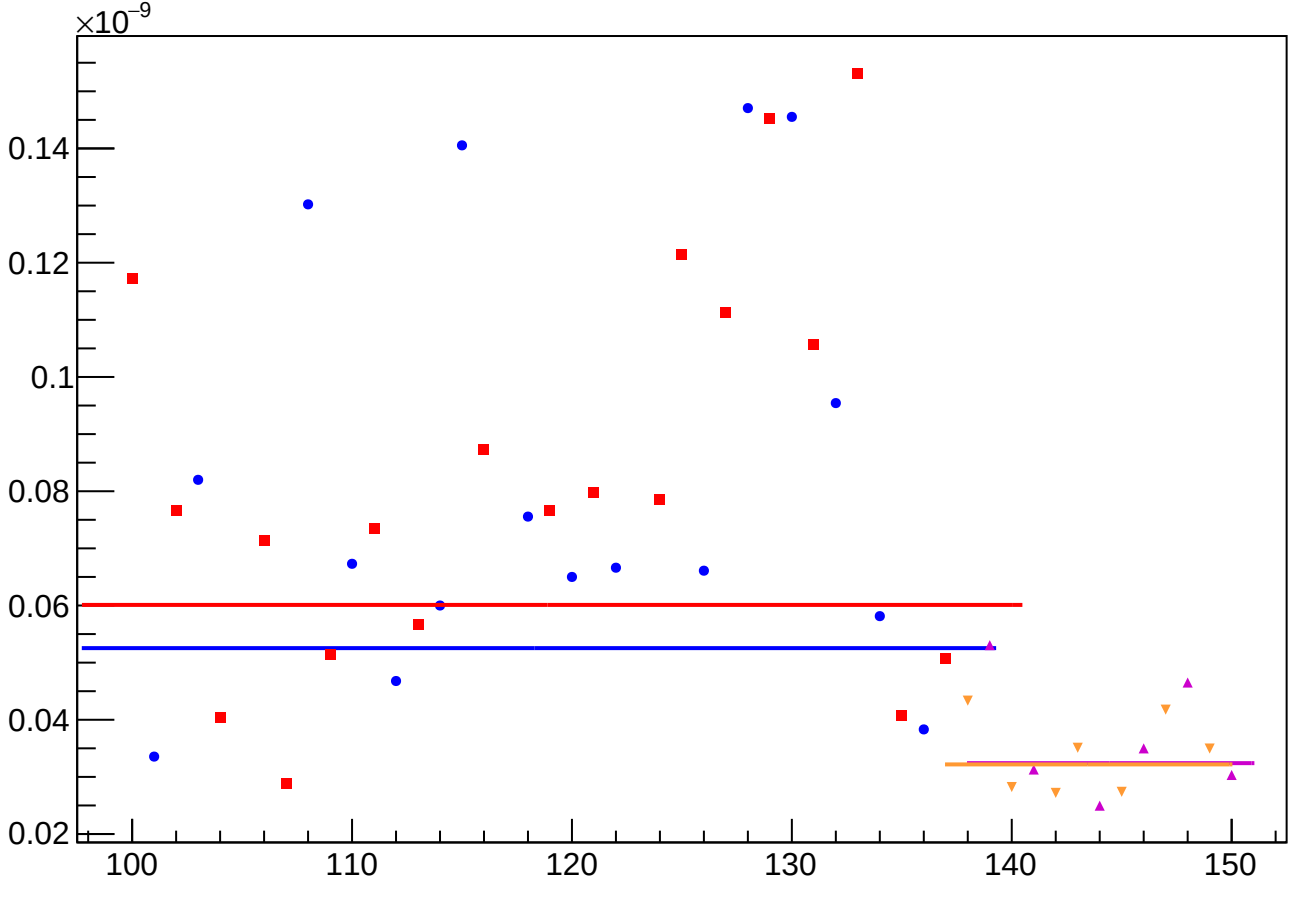
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:28.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 48.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1649207.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:224211.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1539049.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:400760.6/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 625141.5/12

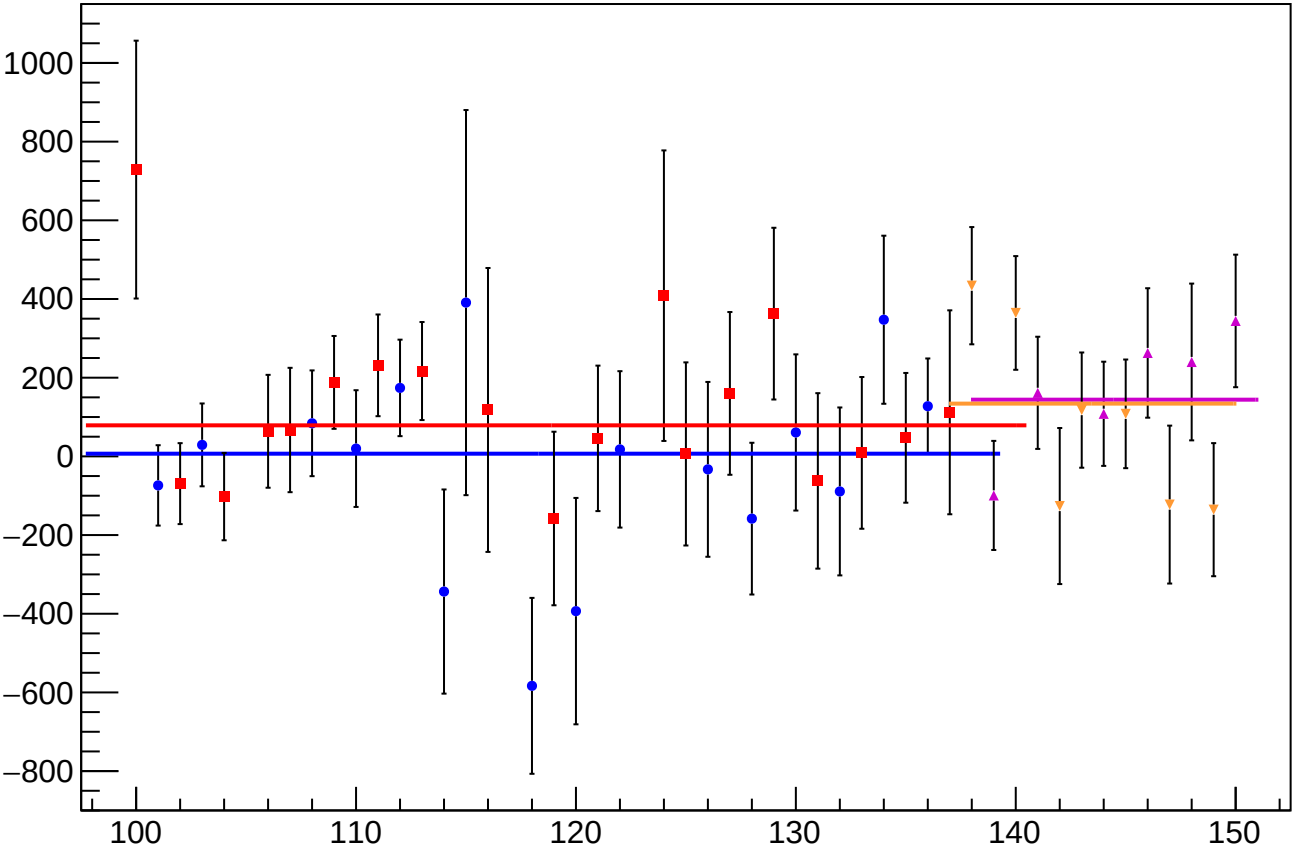
Right: 0.000+/-0.000 $\chi^2$/NDF: 3263531.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2872275.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3165331.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6039628.3/47

# reg_asym_sam5_mean vs Slug, Sign Corrected




Right In: 6.811+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 134.073+/-60.060 $\chi^2$/NDF:12.5/6

Right Out: 78.883+/-37.906 $\chi^2$/NDF: 16.7/18

Left In: 144.105+/-62.544 $\chi^2$/NDF:5.3/5

Left: 138.886+/-43.321 $\chi^2$/NDF: 17.9/12

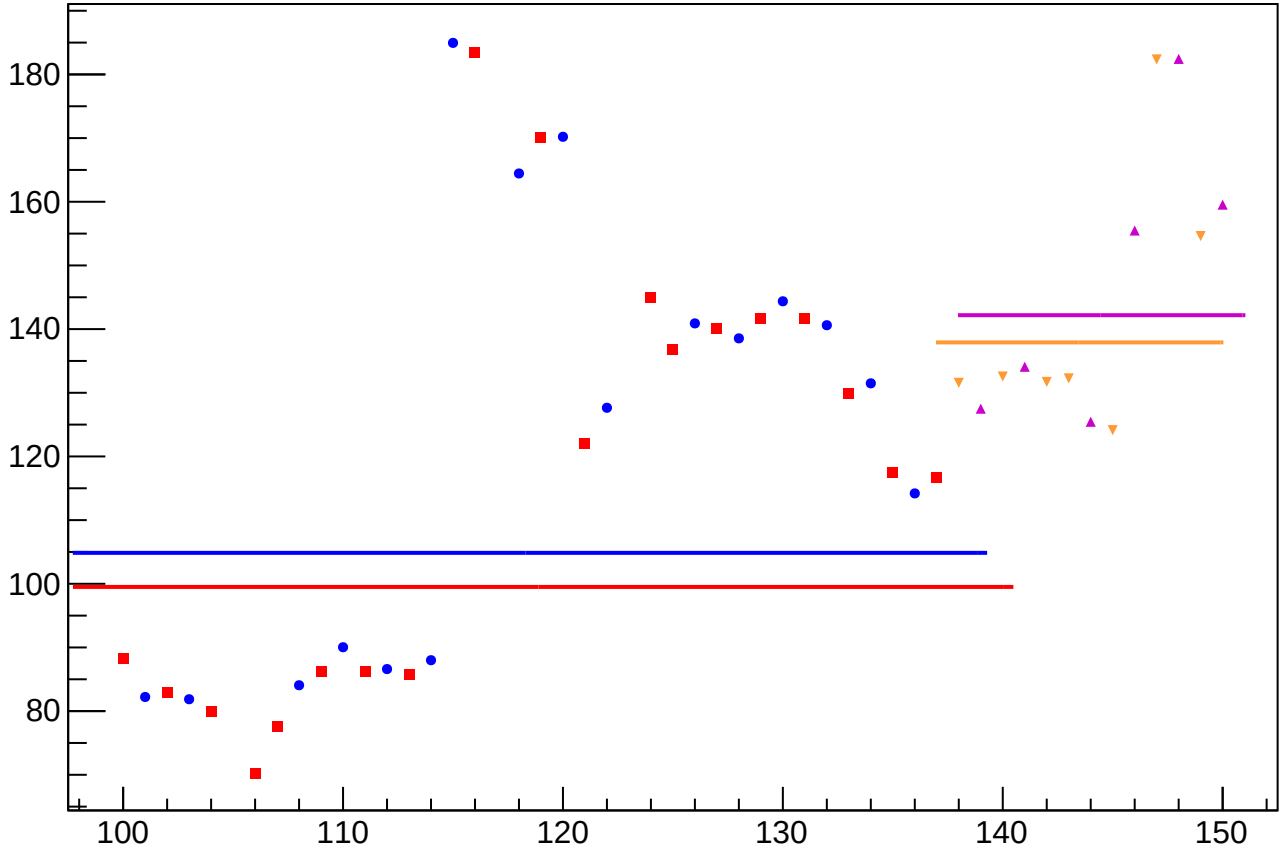
Right: 45.098+/-27.628 $\chi^2$/NDF: 37.2/34

In: 47.164+/-33.908 $\chi^2$/NDF:27.5/21

Out: 94.604+/-32.055 $\chi^2$/NDF:29.8/25

All: 72.216+/-23.294 $\chi^2$/NDF: 58.4/47

# reg_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931228.4/15

Left Out: 137.912+/-0.042 $\chi^2$/NDF:148840.1/6

Right Out: 99.508+/-0.027 $\chi^2$/NDF: 1039037.0/18

Left In: 142.187+/-0.044 $\chi^2$/NDF:176810.5/5

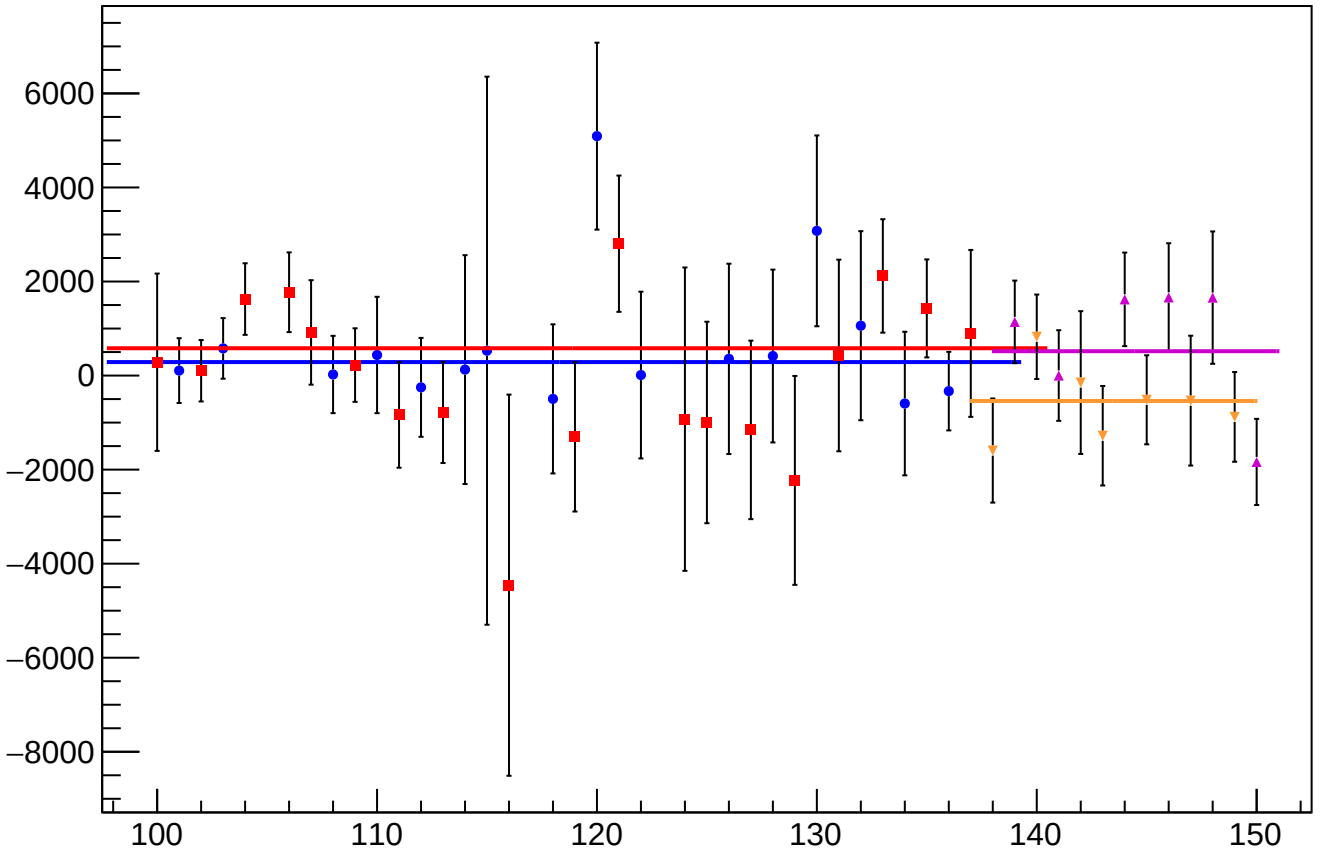
Left: 139.963+/-0.031 $\chi^2$/NDF: 330512.5/12

Right: 102.017+/-0.020 $\chi^2$/NDF: 1988955.2/34

In: 115.831+/-0.024 $\chi^2$/NDF:1611028.5/21

Out: 110.447+/-0.023 $\chi^2$/NDF:1772667.2/25

All: 112.988+/-0.016 $\chi^2$/NDF: 3410317.8/47




Right In: 286.915+/-293.474 $\chi^2$/NDF: 9.7/15

Left Out: -540.439+/-404.125 $\chi^2$/NDF:3.9/6

Right Out: 581.217+/-269.775 $\chi^2$/NDF: 18.8/18

Left In: 518.160+/-413.954 $\chi^2$/NDF:10.3/5

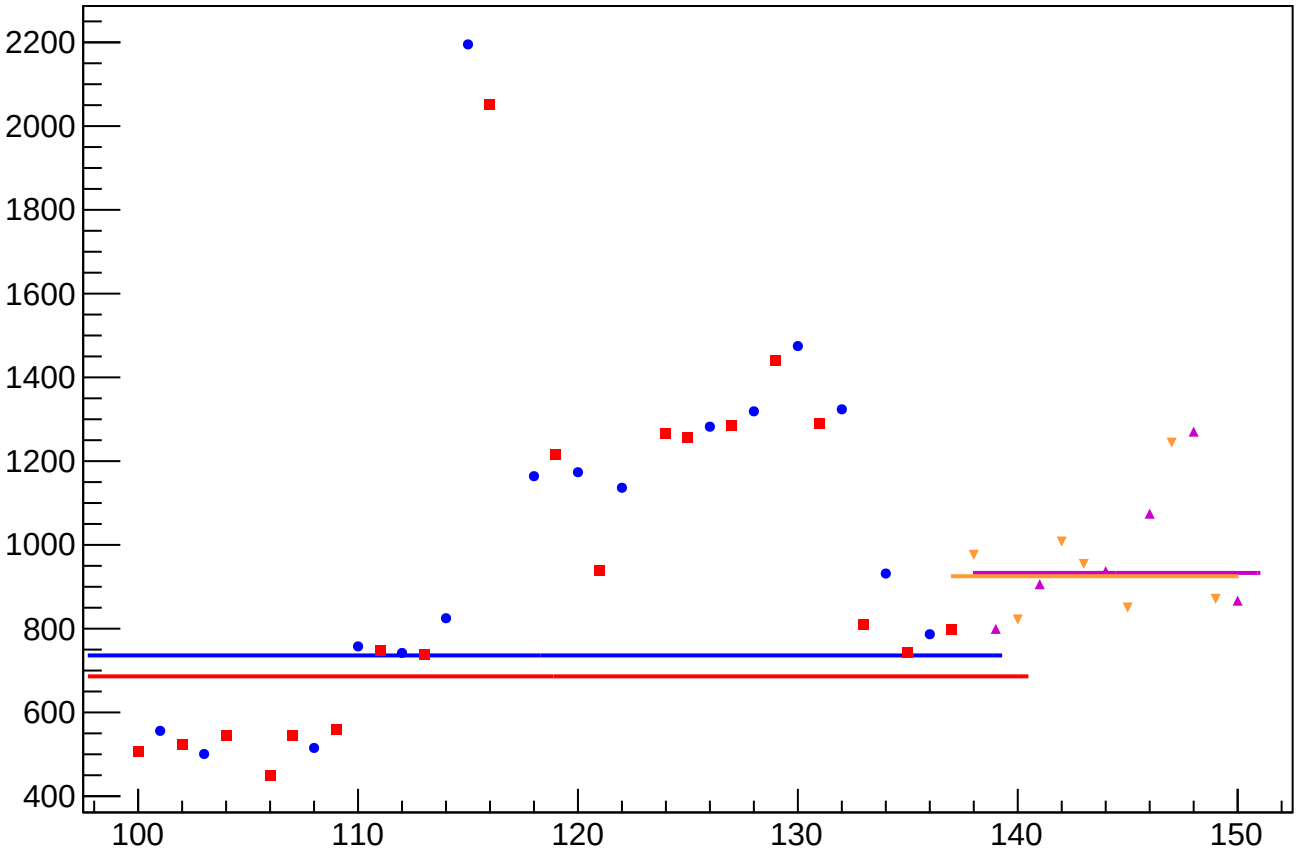
Left: -23.857+/-289.172 $\chi^2$/NDF: 17.5/12

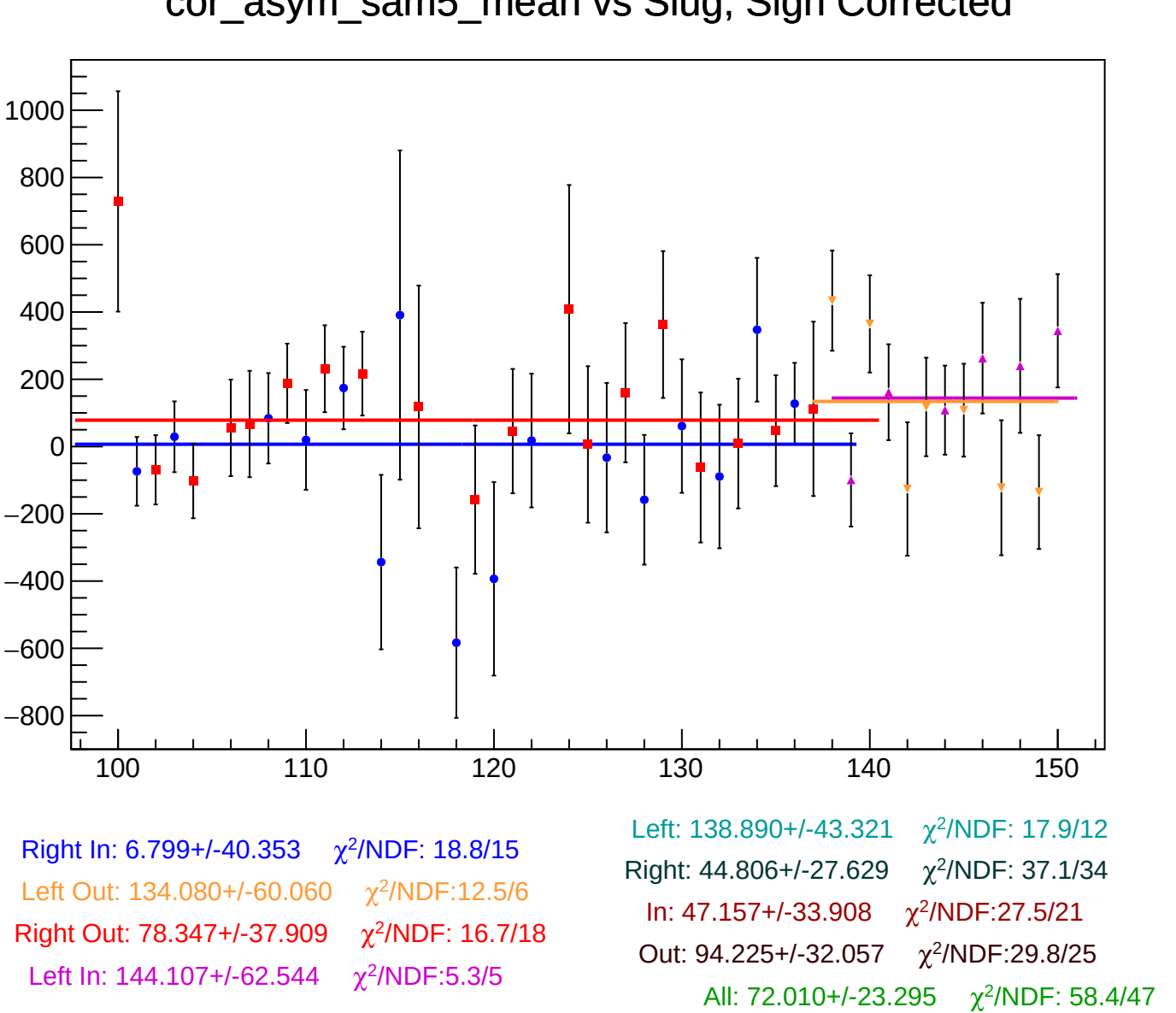
Right: 446.427+/-198.610 $\chi^2$/NDF: 29.0/34

In: 364.265+/-239.412 $\chi^2$/NDF:20.2/21

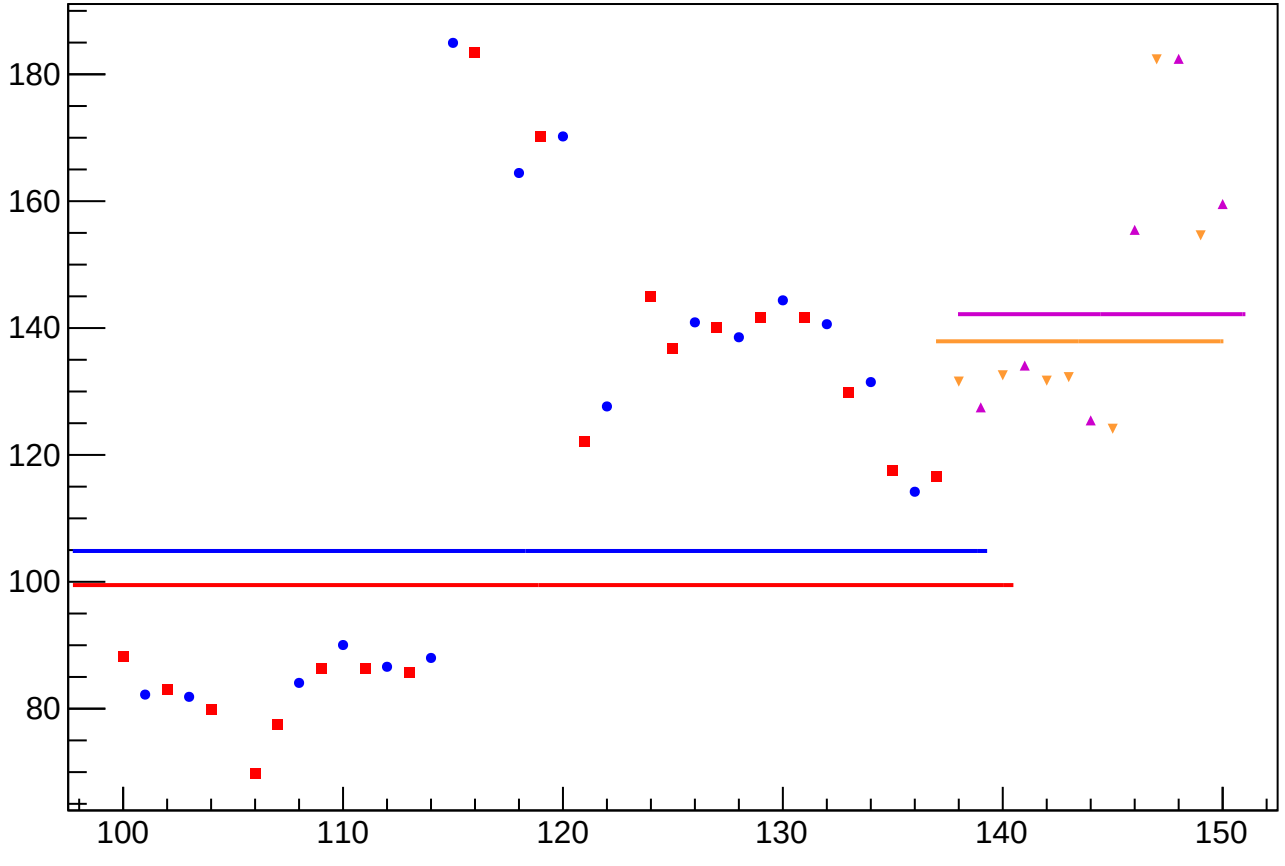
Out: 235.456+/-224.374 $\chi^2$/NDF:28.0/25

All: 295.688+/-163.715 $\chi^2$/NDF: 48.3/47


asym_sam5_reg_correction_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
600
400
100
110
120
130
140
150
Right In: 736.084+/-0.208 χ²/NDF: 1844496.2/15
Left Out: 925.206+/-0.286 χ²/NDF:163811.6/6
Right Out: 686.108+/-0.191 χ²/NDF: 1819176.0/18
Left In: 933.123+/-0.293 χ²/NDF:203520.1/5
Left: 929.070+/-0.204 χ²/NDF: 367706.3/12
Right: 708.997+/-0.140 χ²/NDF: 3695106.9/34
In: 801.992+/-0.169 χ²/NDF:2349584.2/21
Out: 759.812+/-0.159 χ²/NDF:2467263.7/25
All: 779.536+/-0.116 χ²/NDF: 4849898.5/47


cor_asym_sam5_mean vs Slug, Sign Corrected
1000
800
600
400
200
0
−200
−400
−600
−800
100
110
120
130
140
150
Right In: 6.799+/-40.353 χ²/NDF: 18.8/15
Left Out: 134.080+/-60.060 χ²/NDF:12.5/6
Right Out: 78.347+/-37.909 χ²/NDF: 16.7/18
Left In: 144.107+/-62.544 χ²/NDF:5.3/5
Left: 138.890+/-43.321 χ²/NDF: 17.9/12
Right: 44.806+/-27.629 χ²/NDF: 37.1/34
In: 47.157+/-33.908 χ²/NDF:27.5/21
Out: 94.225+/-32.057 χ²/NDF:29.8/25
All: 72.010+/-23.295 χ²/NDF: 58.4/47

# cor_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 137.912+/-0.042 $\chi^2$/NDF:148840.1/6

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 142.187+/-0.044 $\chi^2$/NDF:176810.5/5

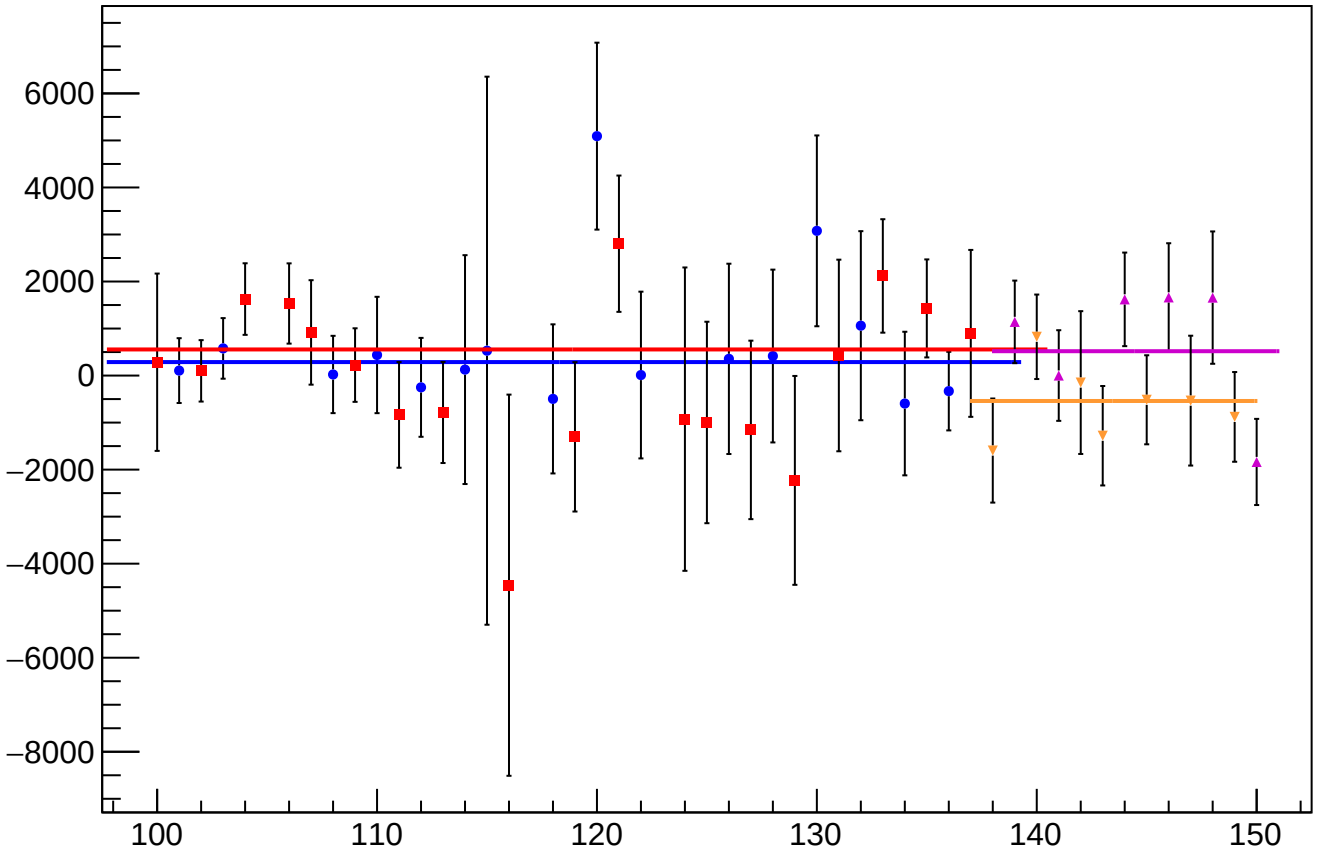
Left: 139.963+/-0.031 $\chi^2$/NDF: 330512.5/12

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 115.831+/-0.024 $\chi^2$/NDF:1611027.4/21

Out: 110.431+/-0.023 $\chi^2$/NDF:1775558.2/25

All: 112.980+/-0.016 $\chi^2$/NDF: 3413364.7/47




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -540.433+/-404.125 $\chi^2$/NDF:3.9/6

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 518.153+/-413.954 $\chi^2$/NDF:10.3/5

Left: -23.857+/-289.172 $\chi^2$/NDF: 17.5/12

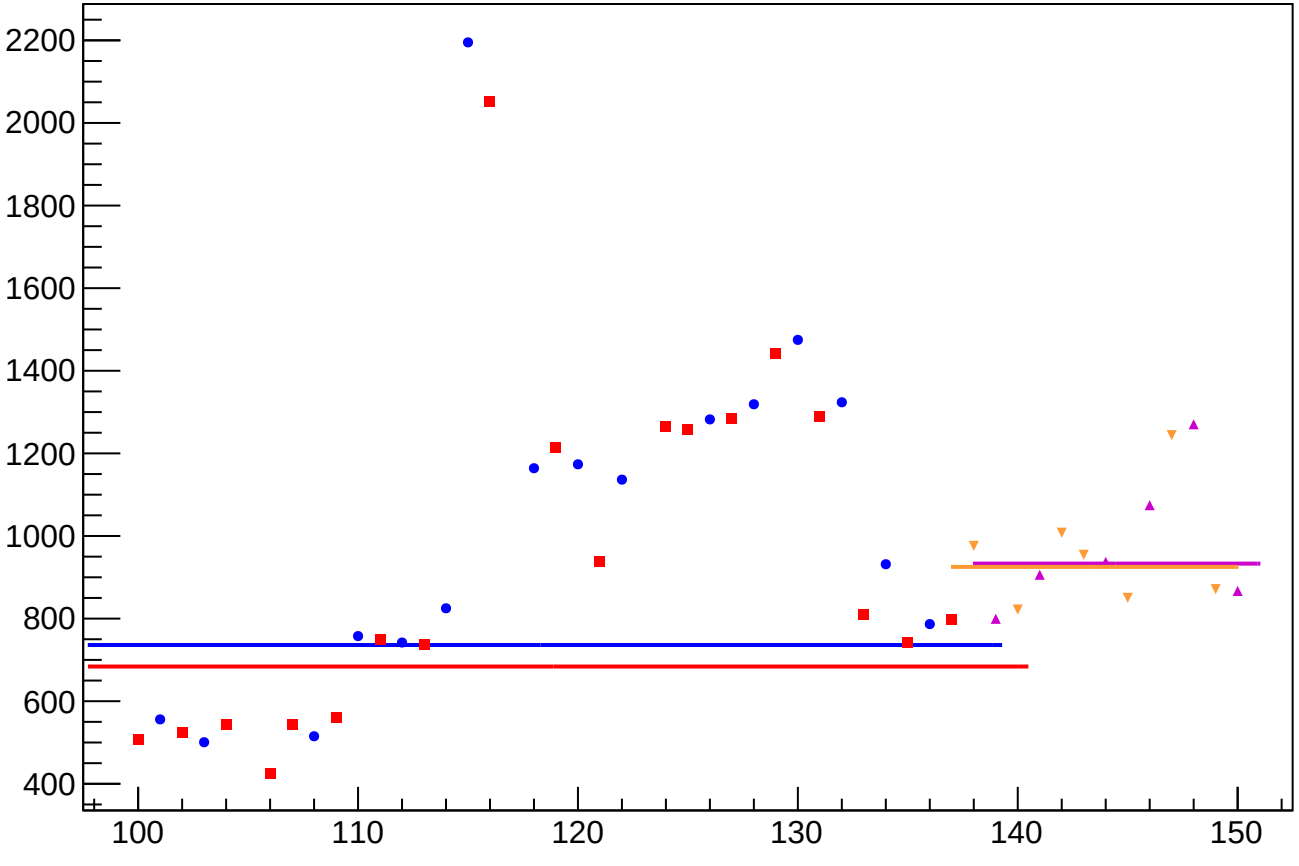
Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 364.264+/-239.412 $\chi^2$/NDF:20.2/21

Out: 217.316+/-224.477 $\chi^2$/NDF:27.0/25

All: 286.064+/-163.755 $\chi^2$/NDF: 47.4/47

# asym_sam5_cor_correction_rms vs Slug, Sign Corrected




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 925.206+/-0.286 $\chi^2$/NDF:163811.2/6

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 933.124+/-0.293 $\chi^2$/NDF:203520.1/5

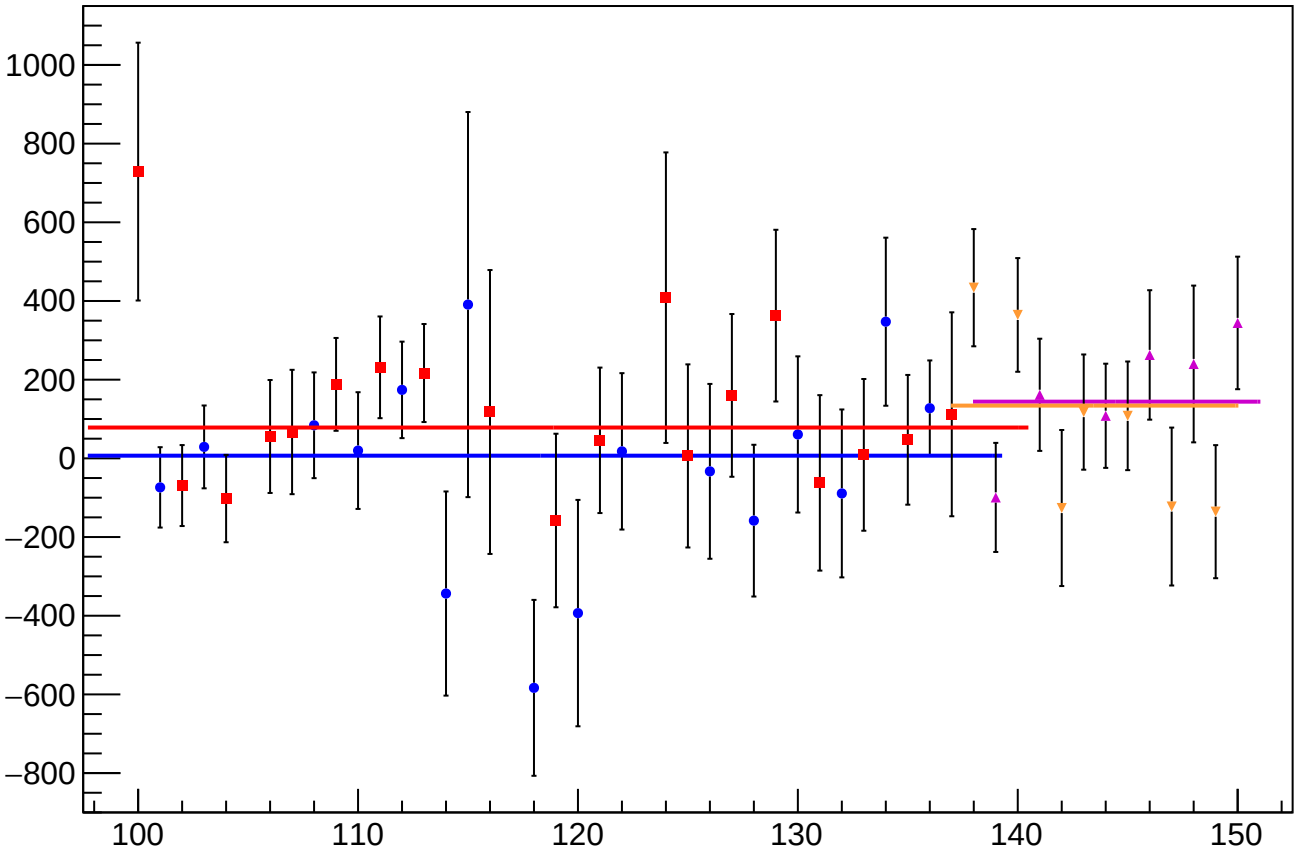
Left: 929.070+/-0.204 $\chi^2$/NDF: 367705.9/12

Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 801.992+/-0.169 $\chi^2$/NDF:2349588.4/21

Out: 758.409+/-0.159 $\chi^2$/NDF:2506946.4/25

All: 778.798+/-0.116 $\chi^2$/NDF: 4891806.1/47




Right In: 6.799+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 134.080+/-60.060 $\chi^2$/NDF:12.5/6

Right Out: 78.347+/-37.909 $\chi^2$/NDF: 16.7/18

Left In: 144.107+/-62.544 $\chi^2$/NDF:5.3/5

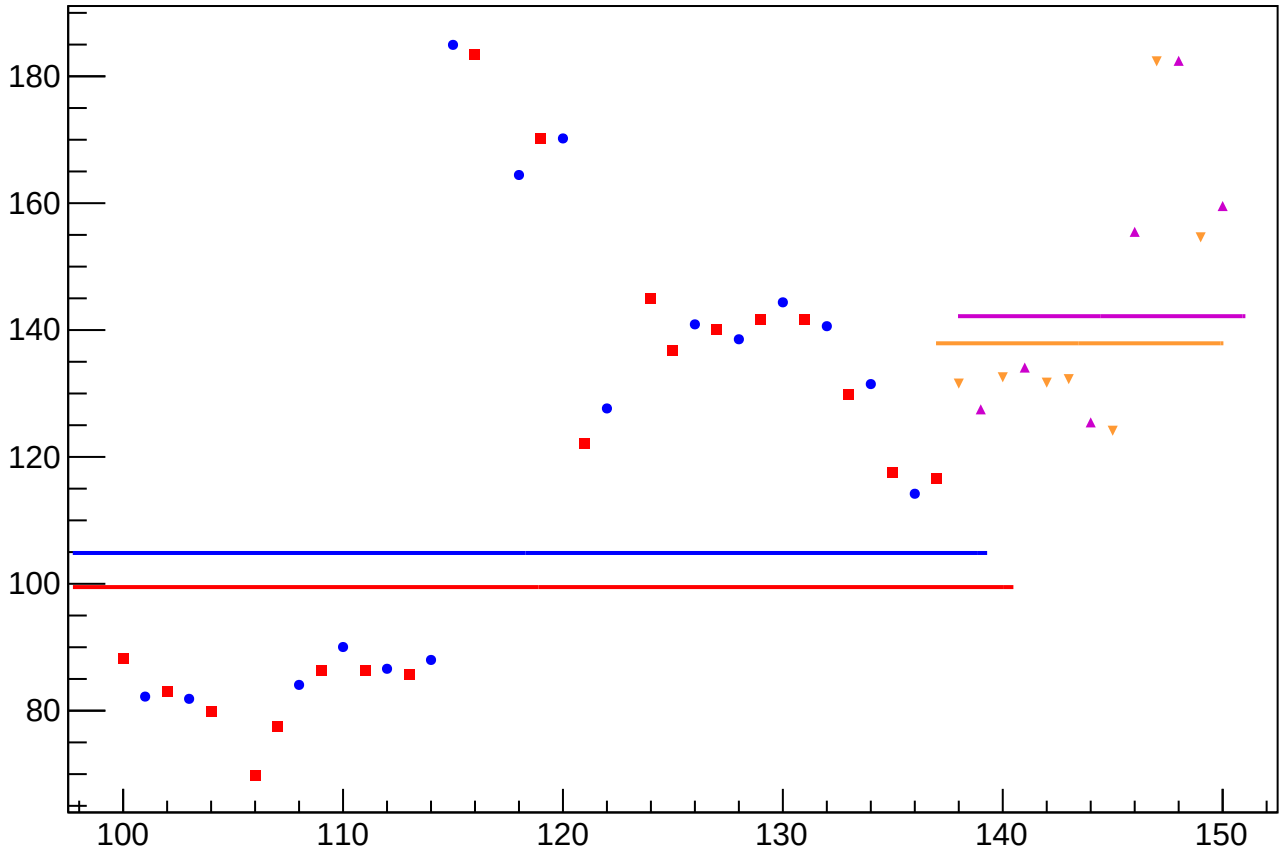
Left: 138.890+/-43.321 $\chi^2$/NDF: 17.9/12

Right: 44.806+/-27.629 $\chi^2$/NDF: 37.1/34

In: 47.157+/-33.908 $\chi^2$/NDF:27.5/21

Out: 94.225+/-32.057 $\chi^2$/NDF:29.8/25

All: 72.010+/-23.295 $\chi^2$/NDF: 58.4/47




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 137.912+/-0.042 $\chi^2$/NDF:148840.1/6

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 142.187+/-0.044 $\chi^2$/NDF:176810.5/5

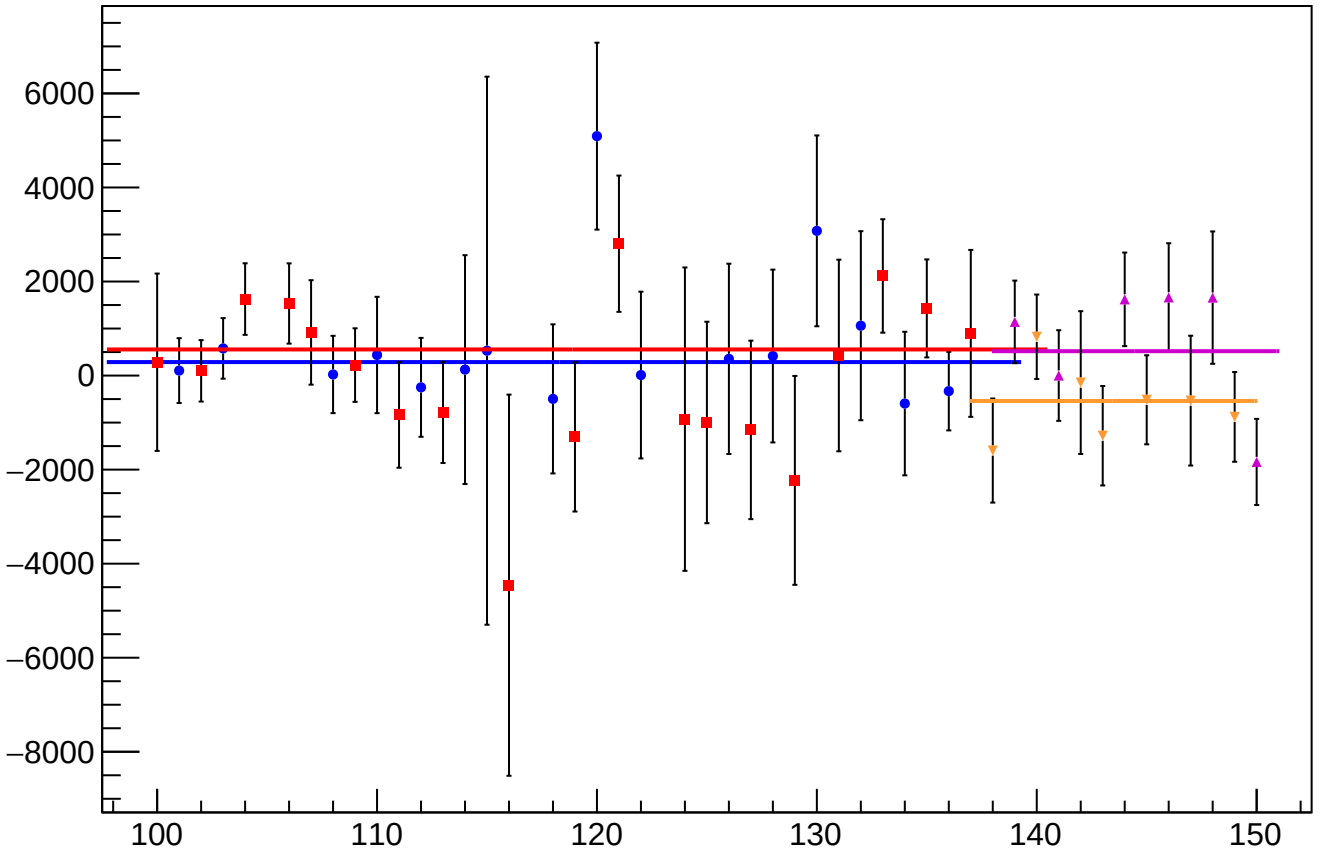
Left: 139.963+/-0.031 $\chi^2$/NDF: 330512.5/12

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 115.831+/-0.024 $\chi^2$/NDF:1611027.4/21

Out: 110.431+/-0.023 $\chi^2$/NDF:1775558.2/25

All: 112.980+/-0.016 $\chi^2$/NDF: 3413364.7/47




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -540.433+/-404.125 $\chi^2$/NDF:3.9/6

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 518.153+/-413.954 $\chi^2$/NDF:10.3/5

Left: -23.857+/-289.172 $\chi^2$/NDF: 17.5/12

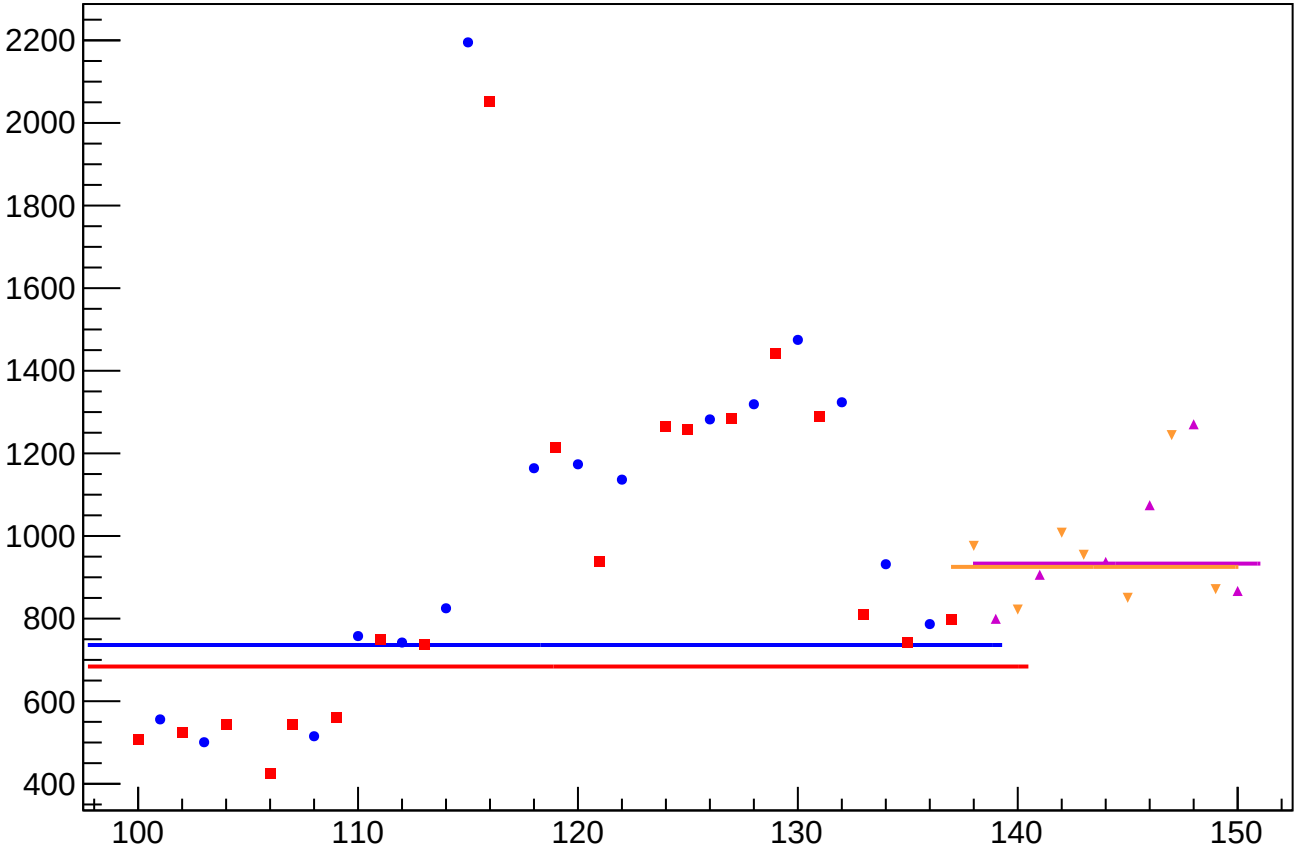
Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 364.264+/-239.412 $\chi^2$/NDF:20.2/21

Out: 217.316+/-224.477 $\chi^2$/NDF:27.0/25

All: 286.064+/-163.755 $\chi^2$/NDF: 47.4/47

asym_sam5_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 925.206+/-0.286 $\chi^2$/NDF:163811.2/6

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 933.124+/-0.293 $\chi^2$/NDF:203520.1/5

Left: 929.070+/-0.204 $\chi^2$/NDF: 367705.9/12

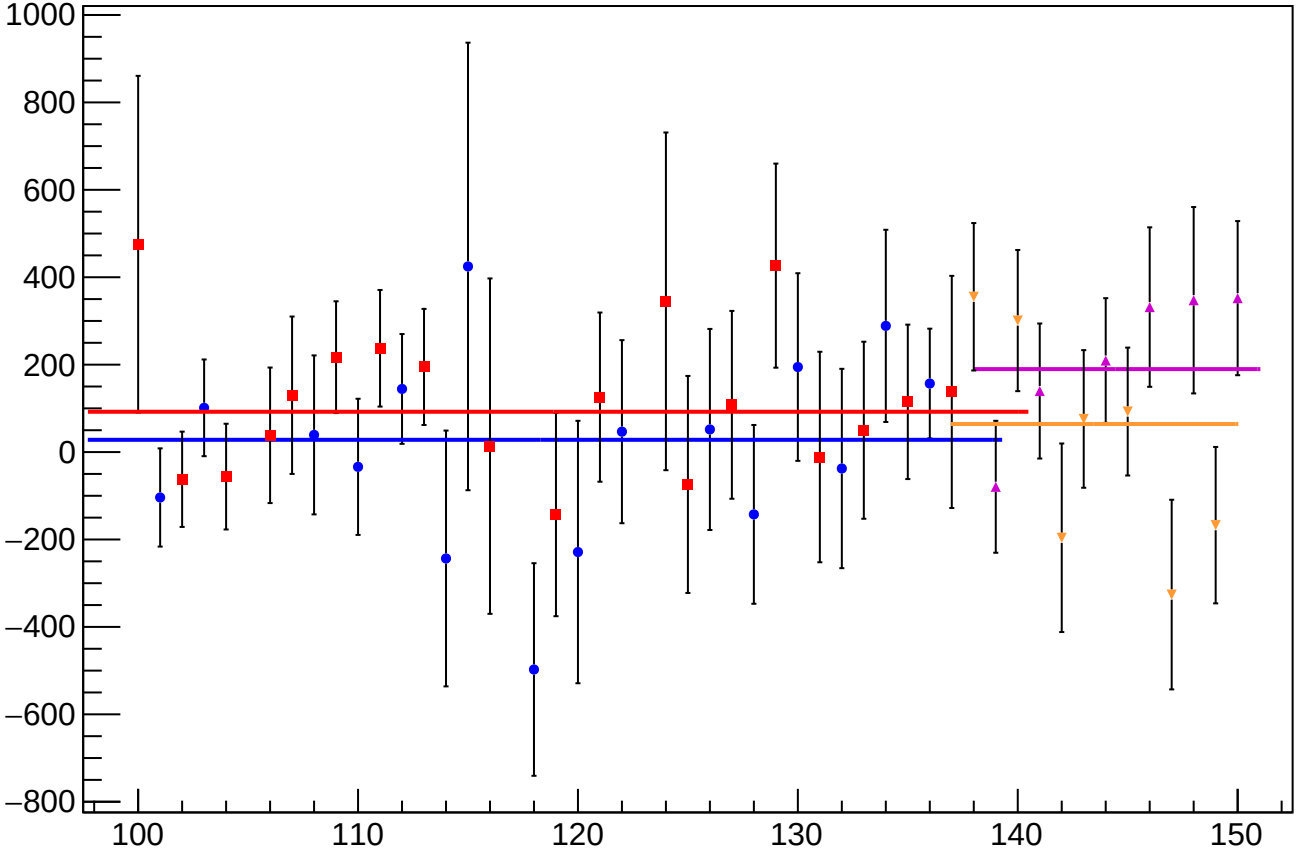
Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 801.992+/-0.169 $\chi^2$/NDF:2349588.4/21

Out: 758.409+/-0.159 $\chi^2$/NDF:2506946.4/25

All: 778.798+/-0.116 $\chi^2$/NDF: 4891806.1/47

# dit_asym_sam5_mean vs Slug, Sign Corrected




Right In: 28.094+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 64.182+/-65.296 $\chi^2$/NDF:11.5/6

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 189.830+/-67.547 $\chi^2$/NDF:5.3/5

Left: 124.877+/-46.947 $\chi^2$/NDF: 18.6/12

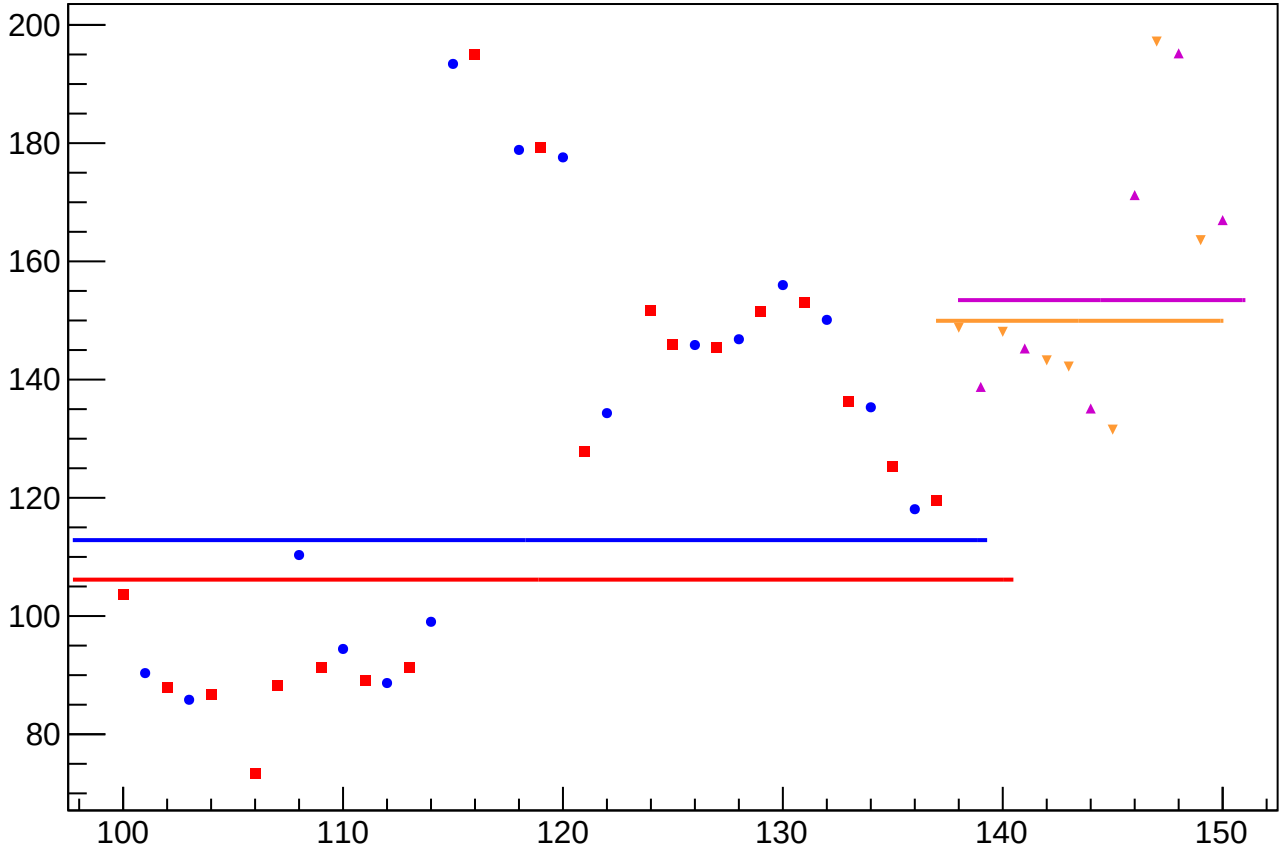
Right: 62.383+/-29.638 $\chi^2$/NDF: 26.4/34

In: 75.412+/-36.536 $\chi^2$/NDF:22.9/21

Out: 84.439+/-34.441 $\chi^2$/NDF:23.4/25

All: 80.192+/-25.061 $\chi^2$/NDF: 46.3/47

# dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 112.843+/-0.031 $\chi^2$/NDF: 872225.9/15

Left Out: 149.948+/-0.046 $\chi^2$/NDF:145265.3/6

Right Out: 106.159+/-0.029 $\chi^2$/NDF: 1002148.0/18

Left In: 153.445+/-0.048 $\chi^2$/NDF:165018.7/5

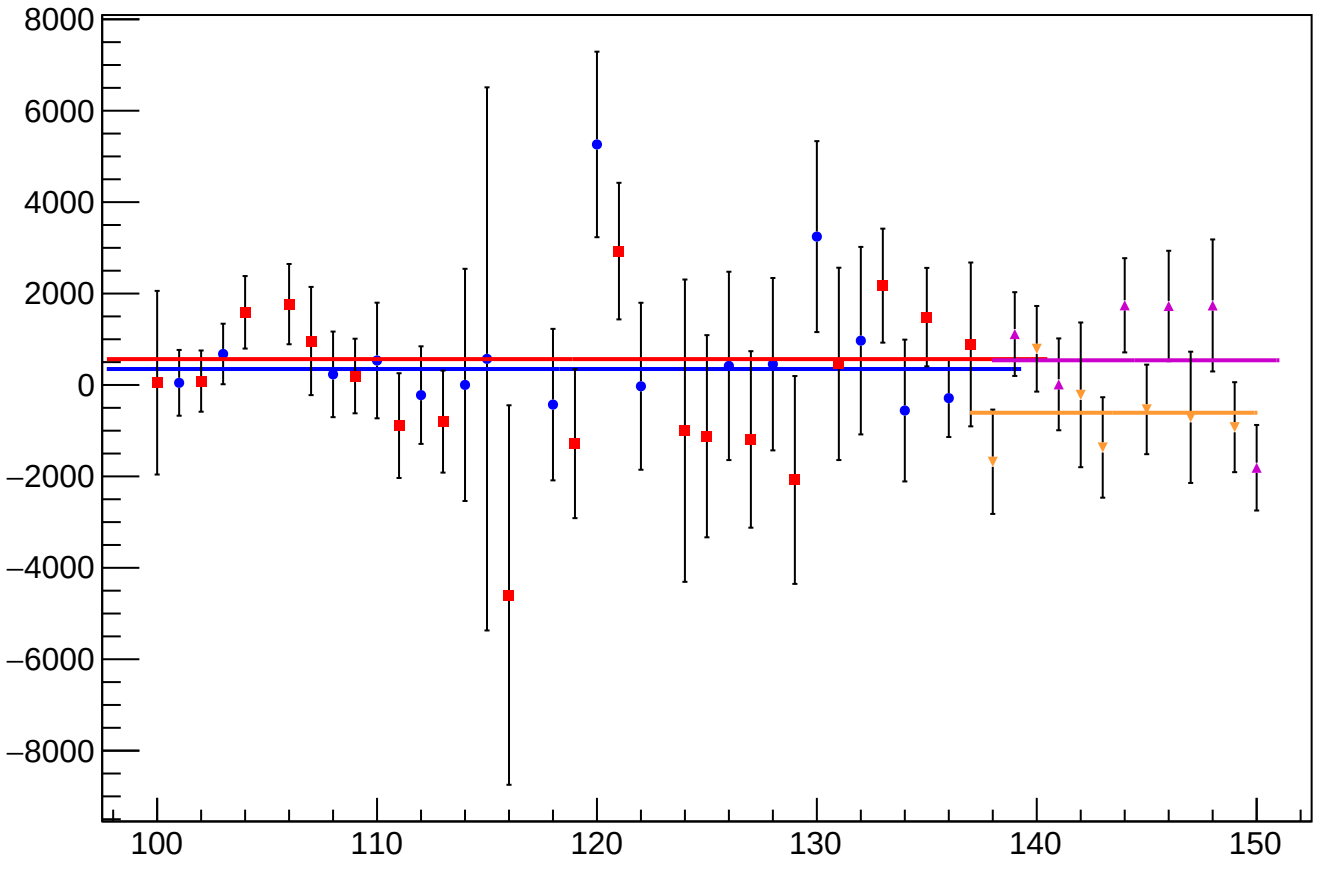
Left: 151.637+/-0.033 $\chi^2$/NDF: 313055.1/12

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899683.8/34

In: 124.721+/-0.026 $\chi^2$/NDF:1548450.2/21

Out: 118.341+/-0.024 $\chi^2$/NDF:1796643.3/25

All: 121.343+/-0.018 $\chi^2$/NDF: 3377385.8/47




Right In: 349.112+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -607.555+/-419.076 $\chi^2$/NDF:3.8/6

Right Out: 566.026+/-279.219 $\chi^2$/NDF: 18.3/18

Left In: 540.227+/-429.159 $\chi^2$/NDF:10.0/5

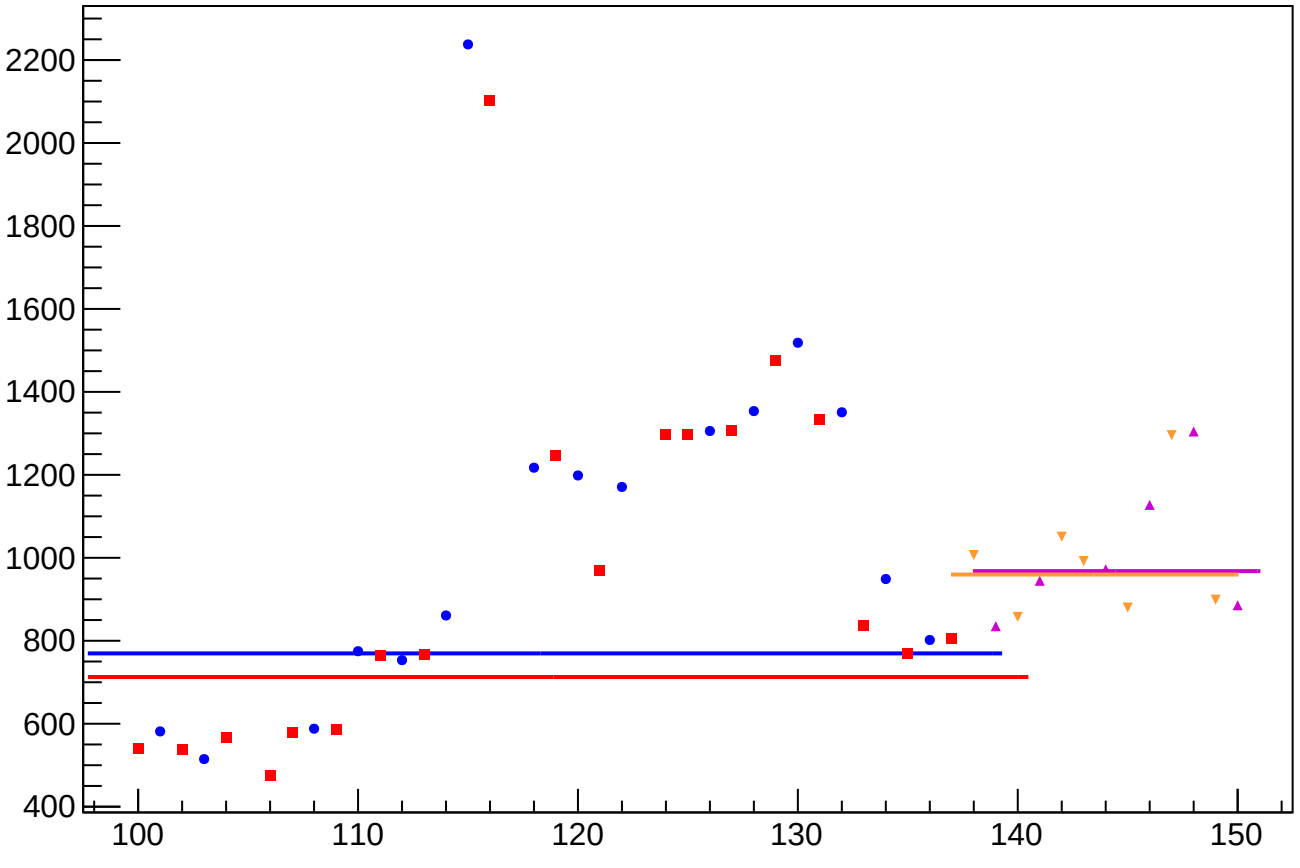
Left: -47.306+/-299.833 $\chi^2$/NDF: 17.4/12

Right: 467.239+/-206.051 $\chi^2$/NDF: 28.4/34

In: 413.339+/-248.788 $\chi^2$/NDF:19.9/21

Out: 205.220+/-232.366 $\chi^2$/NDF:27.5/25

All: 302.185+/-169.817 $\chi^2$/NDF: 47.8/47




Right In: 769.557+/-0.216 $\chi^2$/NDF: 1739937.3/15

Left Out: 959.701+/-0.296 $\chi^2$/NDF:165898.0/6

Right Out: 712.628+/-0.197 $\chi^2$/NDF: 1767226.6/18

Left In: 967.948+/-0.303 $\chi^2$/NDF:202193.7/5

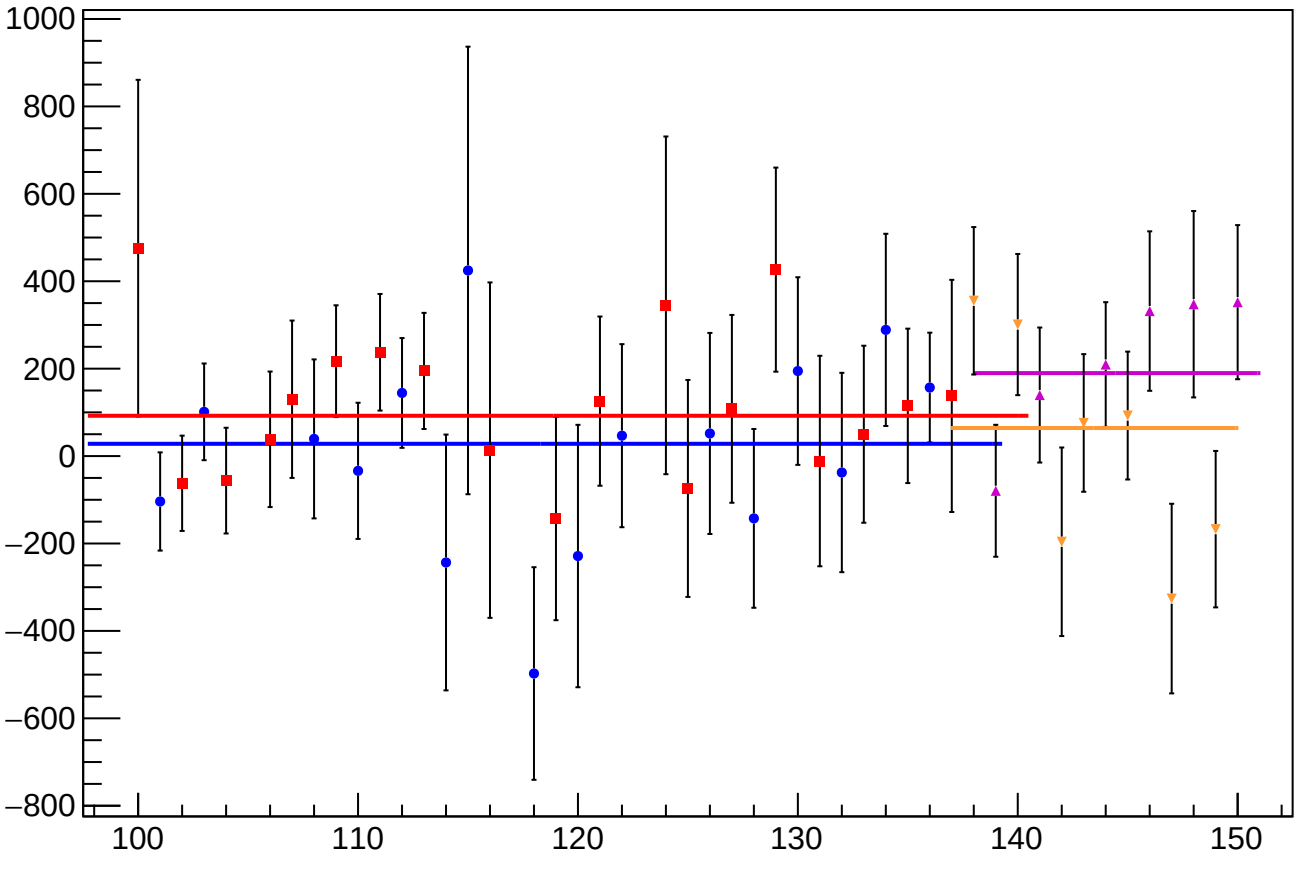
Left: 963.726+/-0.212 $\chi^2$/NDF: 368469.8/12

Right: 738.555+/-0.146 $\chi^2$/NDF: 3545027.5/34

In: 836.229+/-0.176 $\chi^2$/NDF:2225898.2/21

Out: 788.588+/-0.164 $\chi^2$/NDF:2414573.0/25

All: 810.785+/-0.120 $\chi^2$/NDF: 4679640.8/47




Right In: 28.093+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 64.182+/-65.296 $\chi^2$/NDF:11.5/6

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 189.832+/-67.548 $\chi^2$/NDF:5.3/5

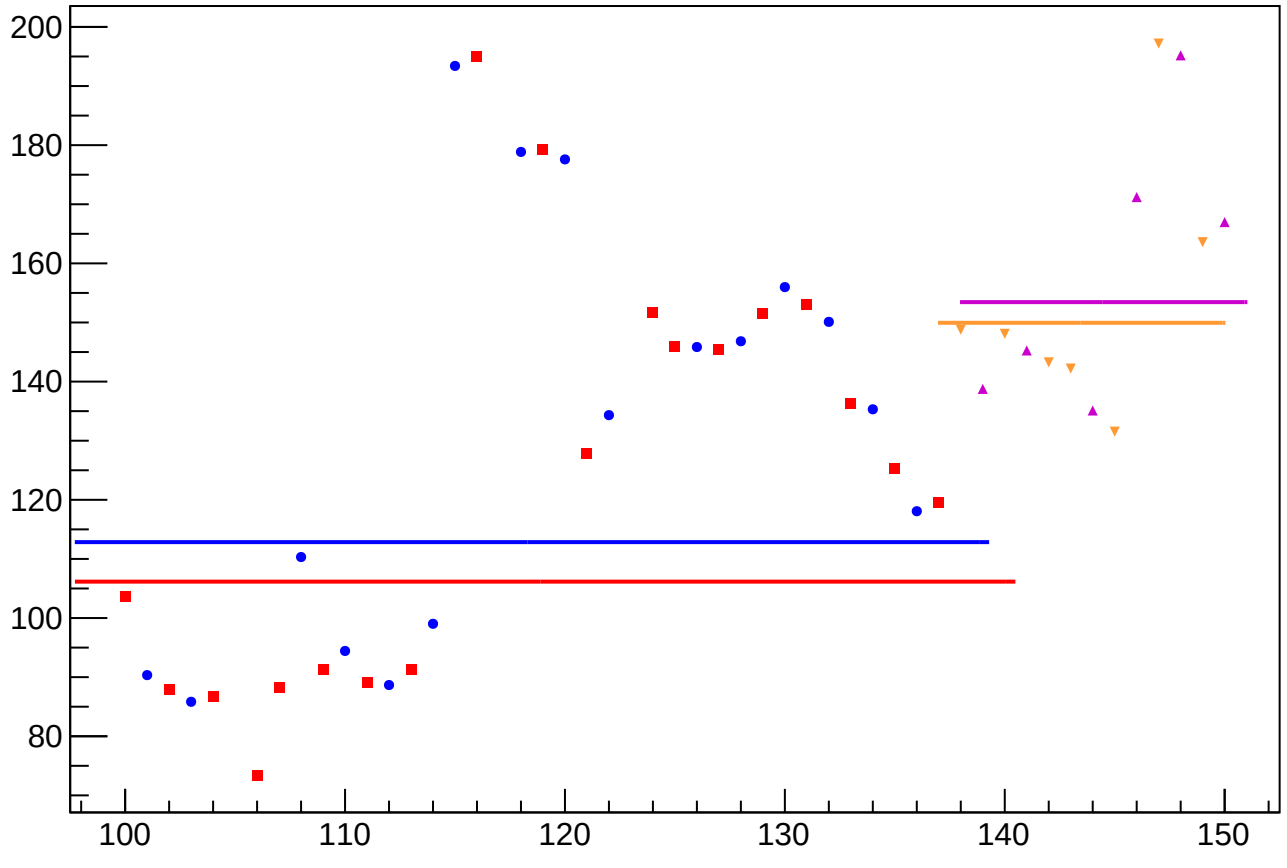
Left: 124.878+/-46.947 $\chi^2$/NDF: 18.6/12

Right: 62.383+/-29.637 $\chi^2$/NDF: 26.4/34

In: 75.412+/-36.536 $\chi^2$/NDF:22.9/21

Out: 84.439+/-34.441 $\chi^2$/NDF:23.4/25

All: 80.192+/-25.061 $\chi^2$/NDF: 46.3/47




Right In: 112.842+/-0.031 $\chi^2$/NDF: 872219.7/15

Left Out: 149.948+/-0.046 $\chi^2$/NDF:145268.4/6

Right Out: 106.158+/-0.029 $\chi^2$/NDF: 1002136.6/18

Left In: 153.445+/-0.048 $\chi^2$/NDF:165018.7/5

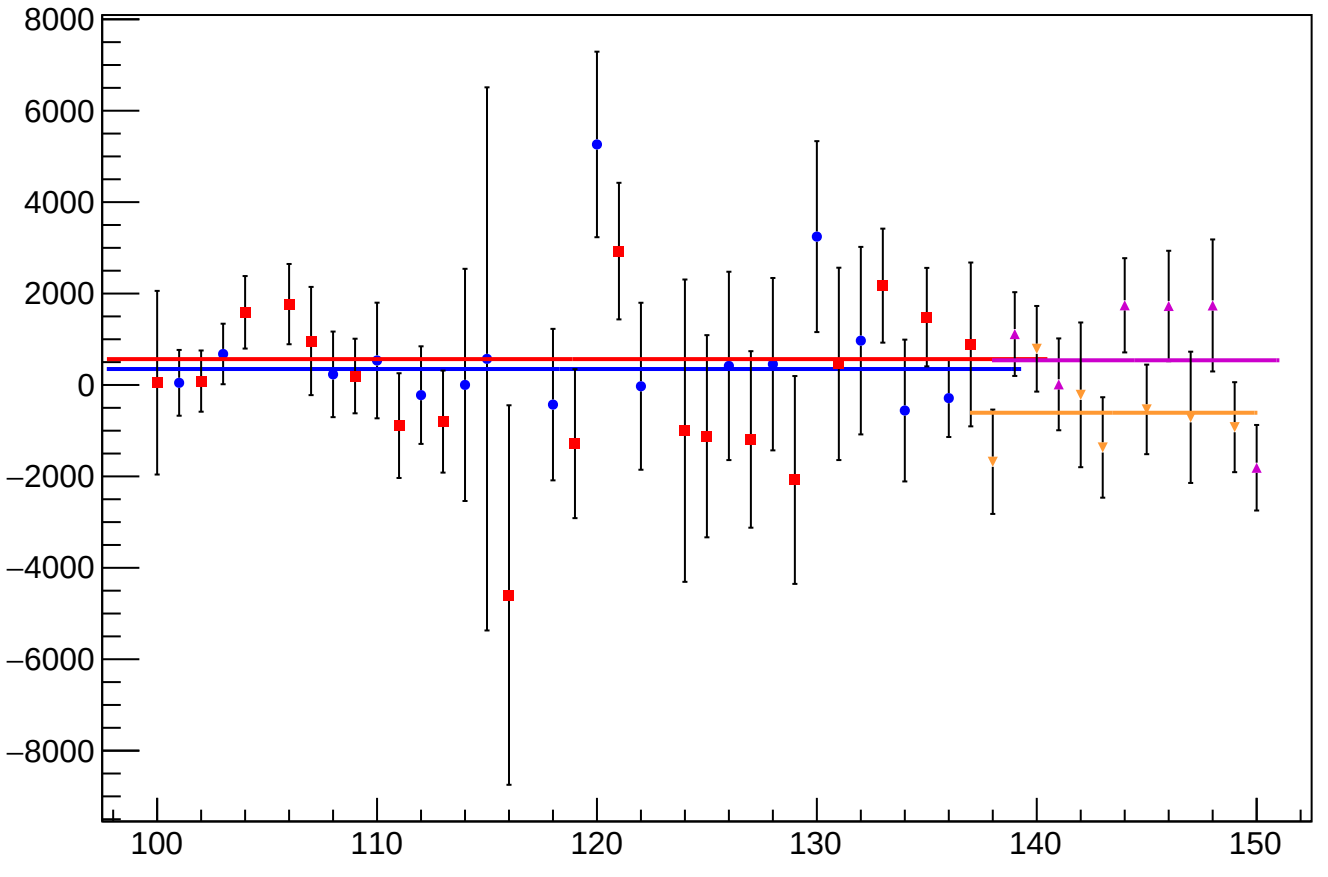
Left: 151.637+/-0.033 $\chi^2$/NDF: 313058.6/12

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899665.6/34

In: 124.721+/-0.026 $\chi^2$/NDF:1548463.8/21

Out: 118.341+/-0.024 $\chi^2$/NDF:1796649.7/25

All: 121.343+/-0.018 $\chi^2$/NDF: 3377405.6/47




Right In: 349.111+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -607.555+/-419.077 $\chi^2$/NDF:3.8/6

Right Out: 566.026+/-279.218 $\chi^2$/NDF: 18.3/18

Left In: 540.229+/-429.160 $\chi^2$/NDF:10.0/5

Left: -47.305+/-299.833 $\chi^2$/NDF: 17.4/12

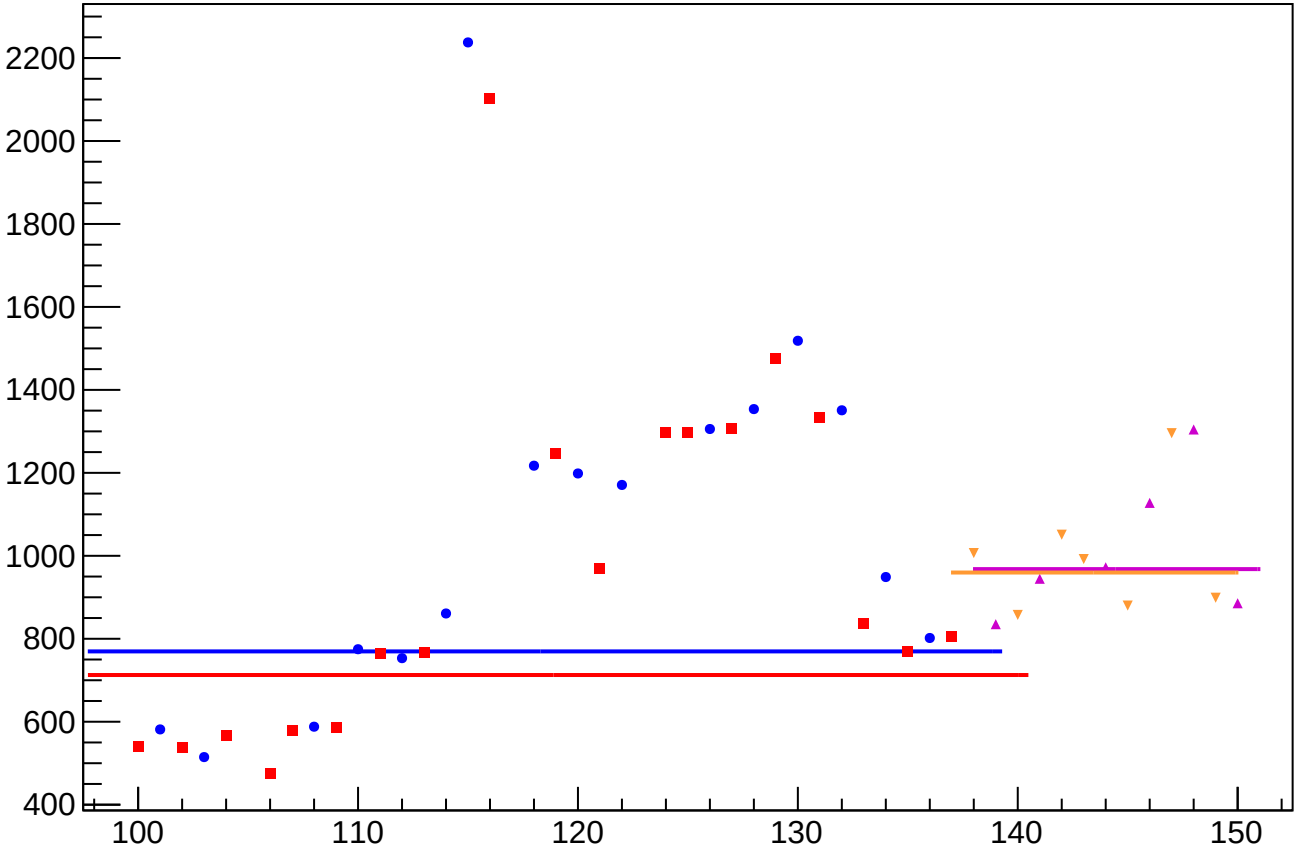
Right: 467.238+/-206.050 $\chi^2$/NDF: 28.4/34

In: 413.339+/-248.788 $\chi^2$/NDF:19.9/21

Out: 205.222+/-232.366 $\chi^2$/NDF:27.5/25

All: 302.185+/-169.817 $\chi^2$/NDF: 47.8/47

# asym_sam5_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 769.556+/-0.216 $\chi^2$/NDF: 1739933.9/15

Left Out: 959.702+/-0.296 $\chi^2$/NDF:165897.8/6

Right Out: 712.627+/-0.197 $\chi^2$/NDF: 1767219.7/18

Left In: 967.950+/-0.303 $\chi^2$/NDF:202193.6/5

Left: 963.728+/-0.212 $\chi^2$/NDF: 368469.5/12

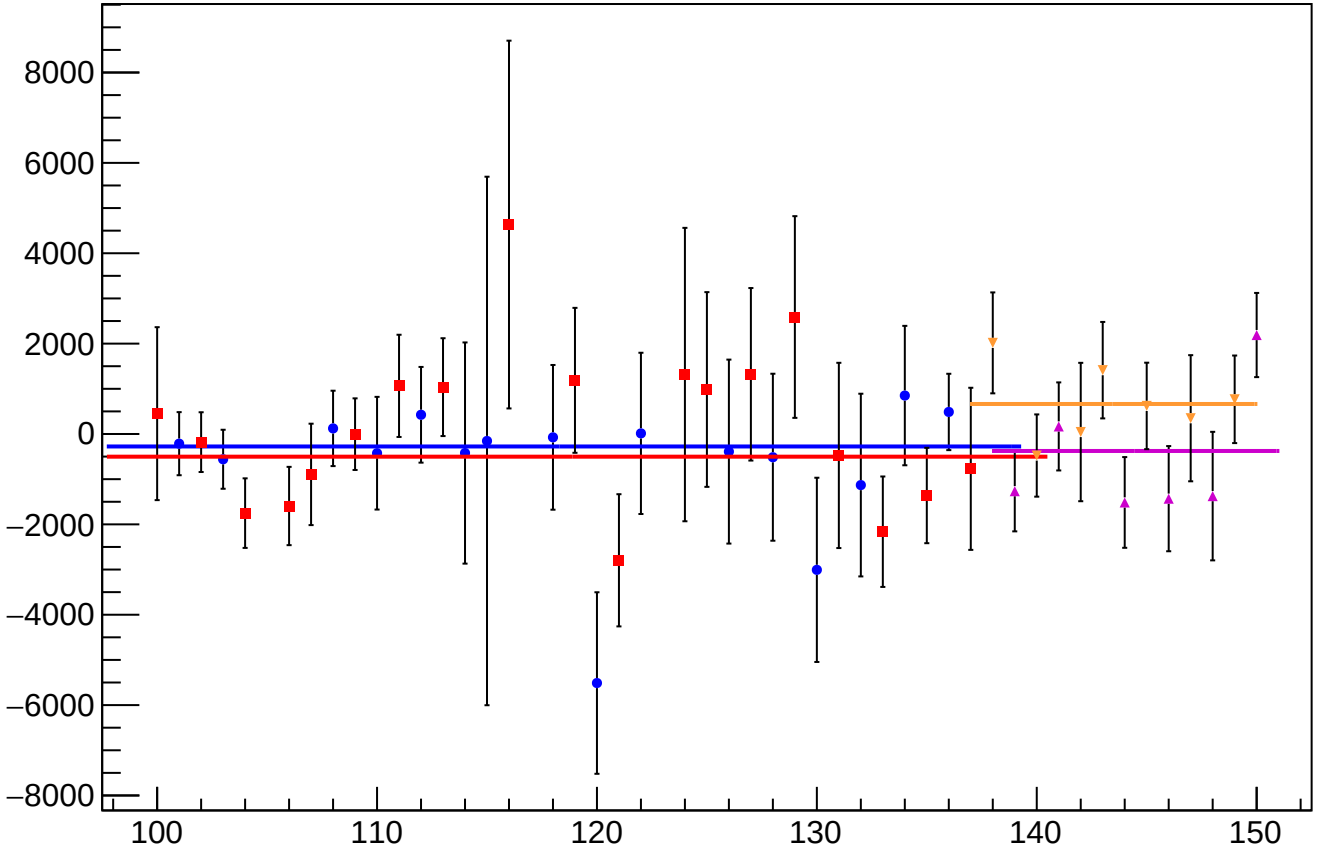
Right: 738.554+/-0.146 $\chi^2$/NDF: 3545017.2/34

In: 836.229+/-0.176 $\chi^2$/NDF:2225904.0/21

Out: 788.588+/-0.164 $\chi^2$/NDF:2414576.4/25

All: 810.784+/-0.120 $\chi^2$/NDF: 4679650.4/47

# asym_sam5_mean vs Slug, Sign Corrected




Right In: -276.199+/-296.708 $\chi^2$/NDF: 11.1/15

Left Out: 664.159+/-408.811 $\chi^2$/NDF:3.8/6

Right Out: -501.985+/-272.991 $\chi^2$/NDF: 20.5/18

Left In: -375.870+/-419.044 $\chi^2$/NDF:11.5/5

Left: 156.999+/-292.624 $\chi^2$/NDF: 18.4/12

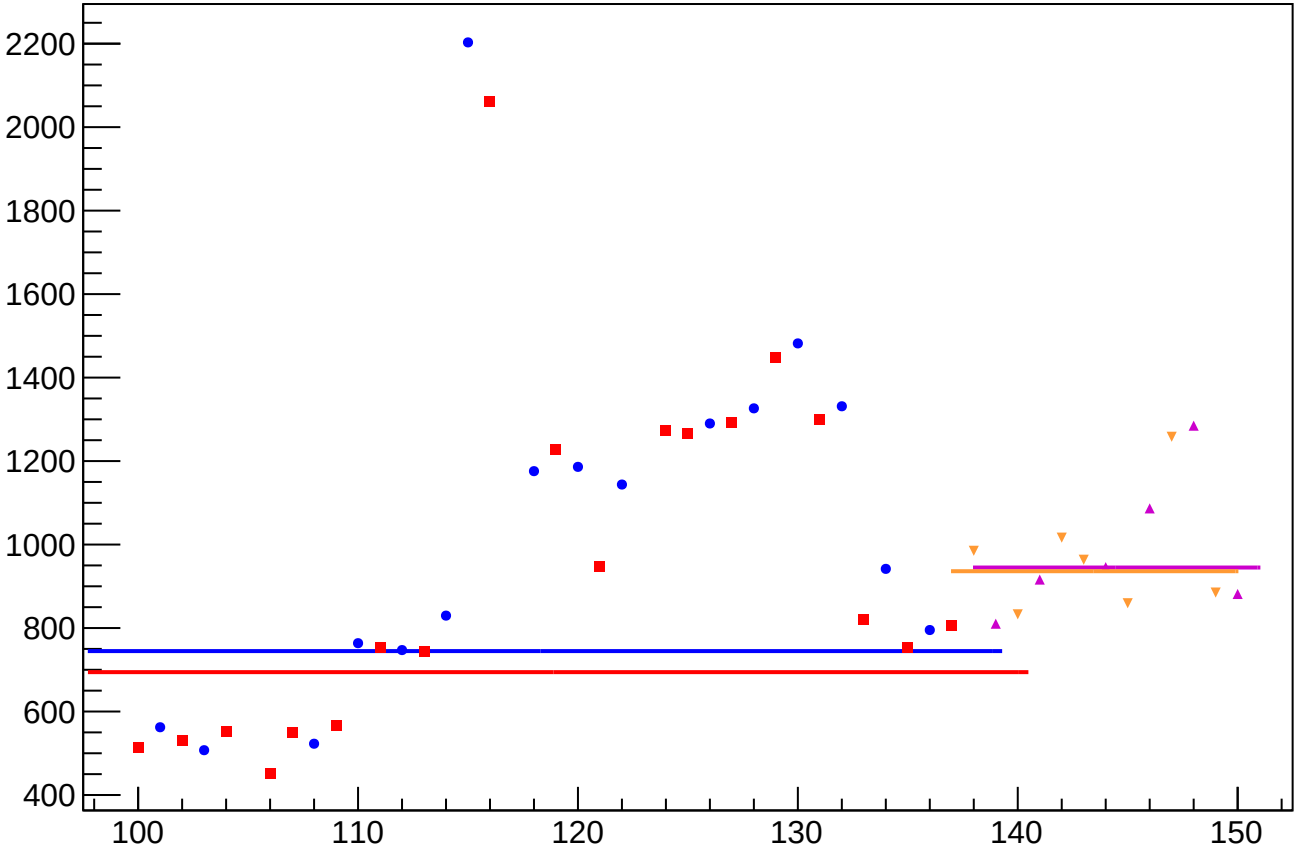
Right: -398.475+/-200.896 $\chi^2$/NDF: 31.9/34

In: -309.482+/-242.153 $\chi^2$/NDF:22.6/21

Out: -142.351+/-227.027 $\chi^2$/NDF:29.9/25

All: -220.534+/-165.621 $\chi^2$/NDF: 52.7/47

# asym_sam5_rms vs Slug, Sign Corrected




Right In: 744.783+/-0.210 $\chi^2$/NDF: 1822553.5/15

Left Out: 936.134+/-0.289 $\chi^2$/NDF:161384.8/6

Right Out: 694.348+/-0.193 $\chi^2$/NDF: 1803741.9/18

Left In: 944.970+/-0.296 $\chi^2$/NDF:200612.5/5

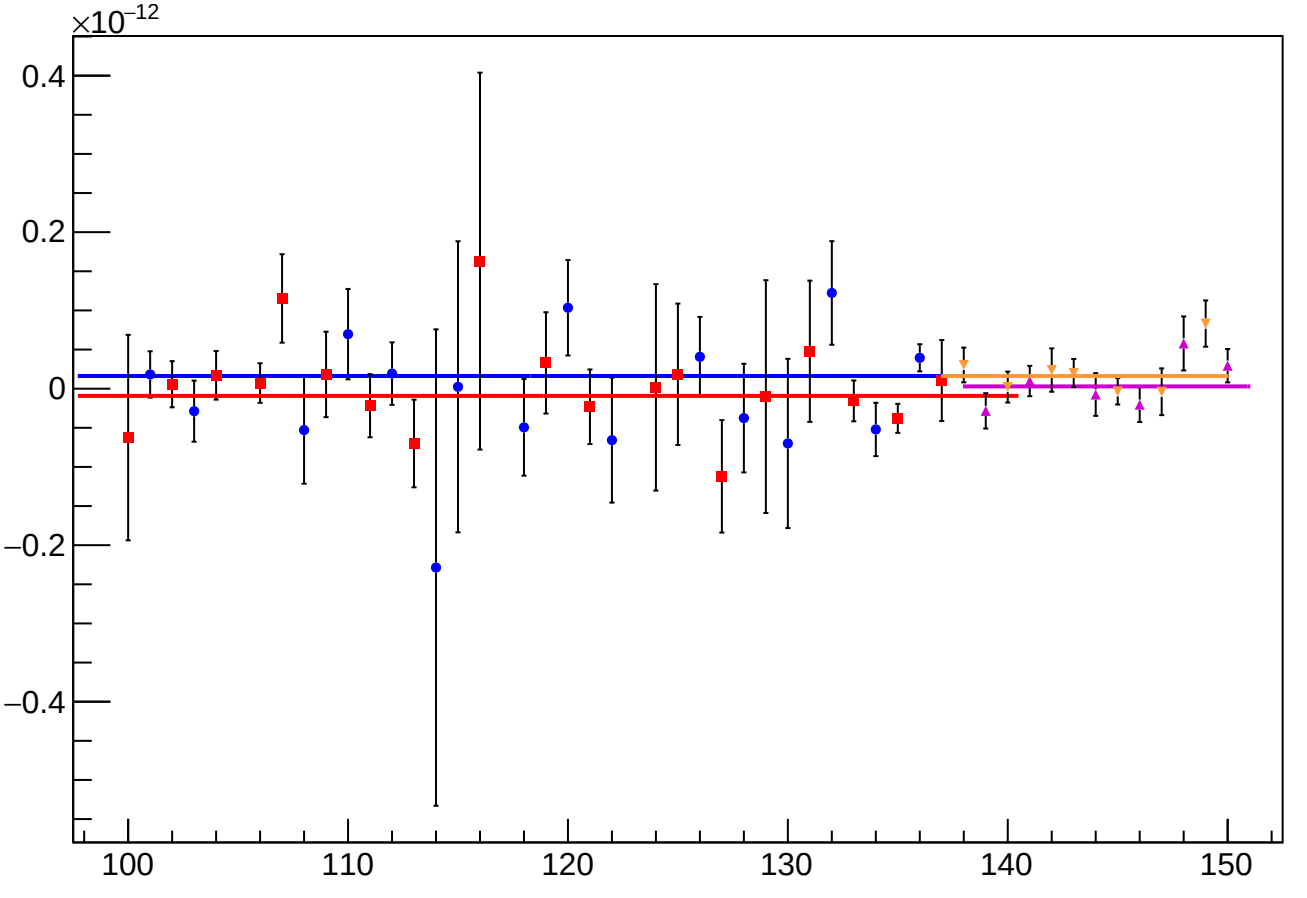
Left: 940.443+/-0.207 $\chi^2$/NDF: 362453.0/12

Right: 717.469+/-0.142 $\chi^2$/NDF: 3657590.2/34

In: 811.632+/-0.171 $\chi^2$/NDF:2327185.9/21

Out: 768.914+/-0.161 $\chi^2$/NDF:2448970.6/25

All: 788.897+/-0.117 $\chi^2$/NDF: 4809280.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.4/5

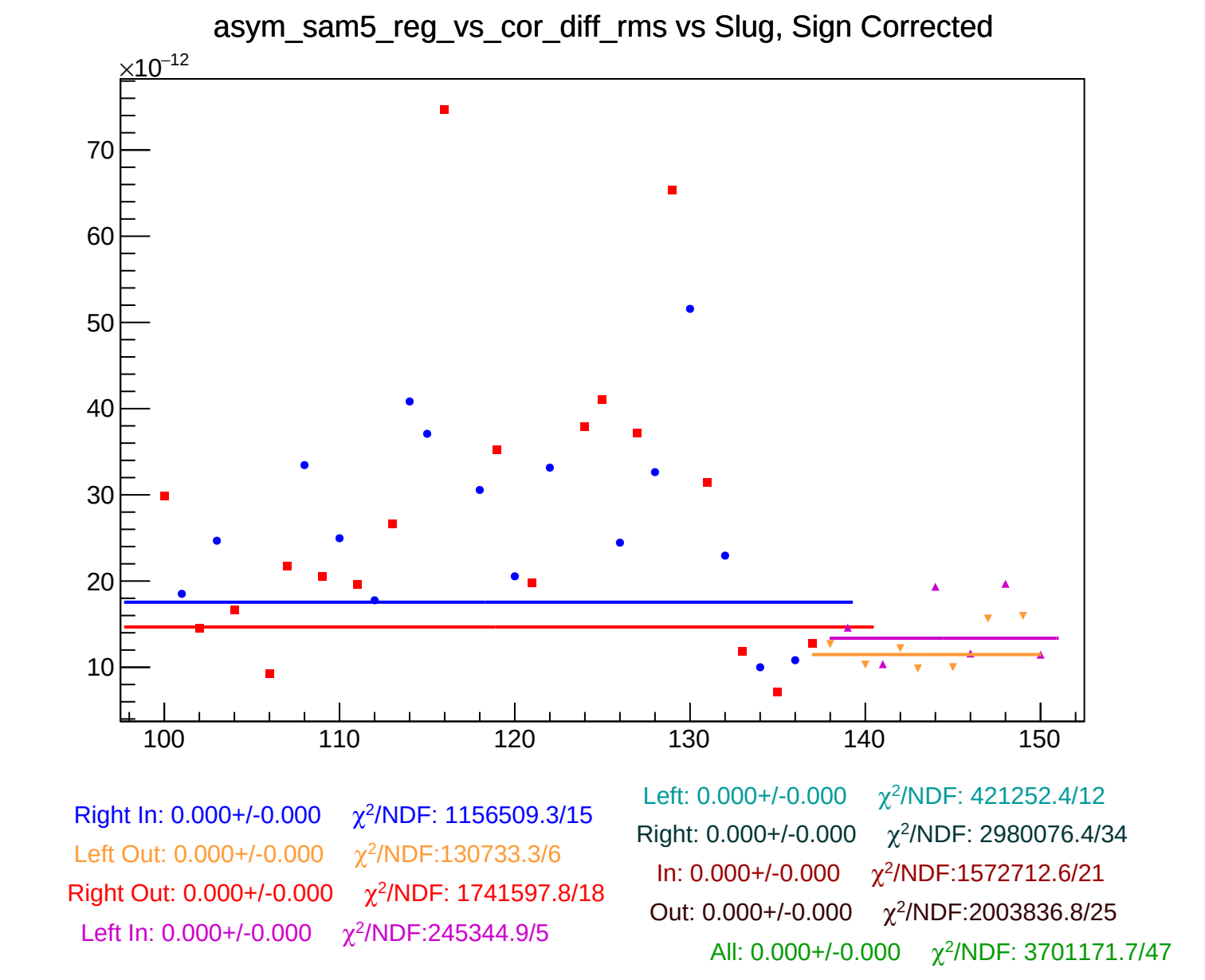
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.4/12

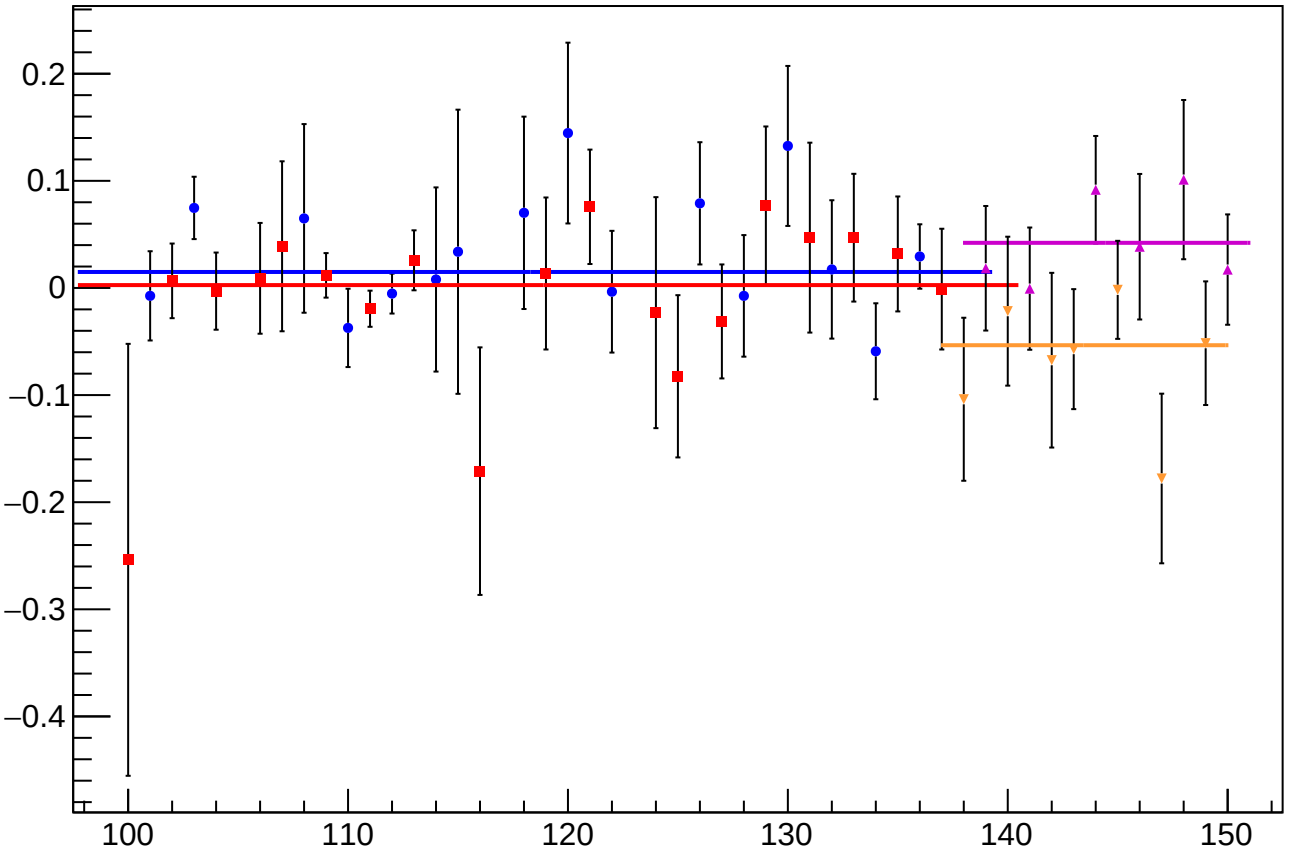
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:26.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 52.5/47


asym_sam5_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1156509.3/15
Left Out: 0.000+/-0.000 χ²/NDF:130733.3/6
Right Out: 0.000+/-0.000 χ²/NDF: 1741597.8/18
Left In: 0.000+/-0.000 χ²/NDF:245344.9/5
Left: 0.000+/-0.000 χ²/NDF: 421252.4/12
Right: 0.000+/-0.000 χ²/NDF: 2980076.4/34
In: 0.000+/-0.000 χ²/NDF:1572712.6/21
Out: 0.000+/-0.000 χ²/NDF:2003836.8/25
All: 0.000+/-0.000 χ²/NDF: 3701171.7/47




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.053+/-0.024 $\chi^2$/NDF:4.4/6

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.024 $\chi^2$/NDF:2.6/5

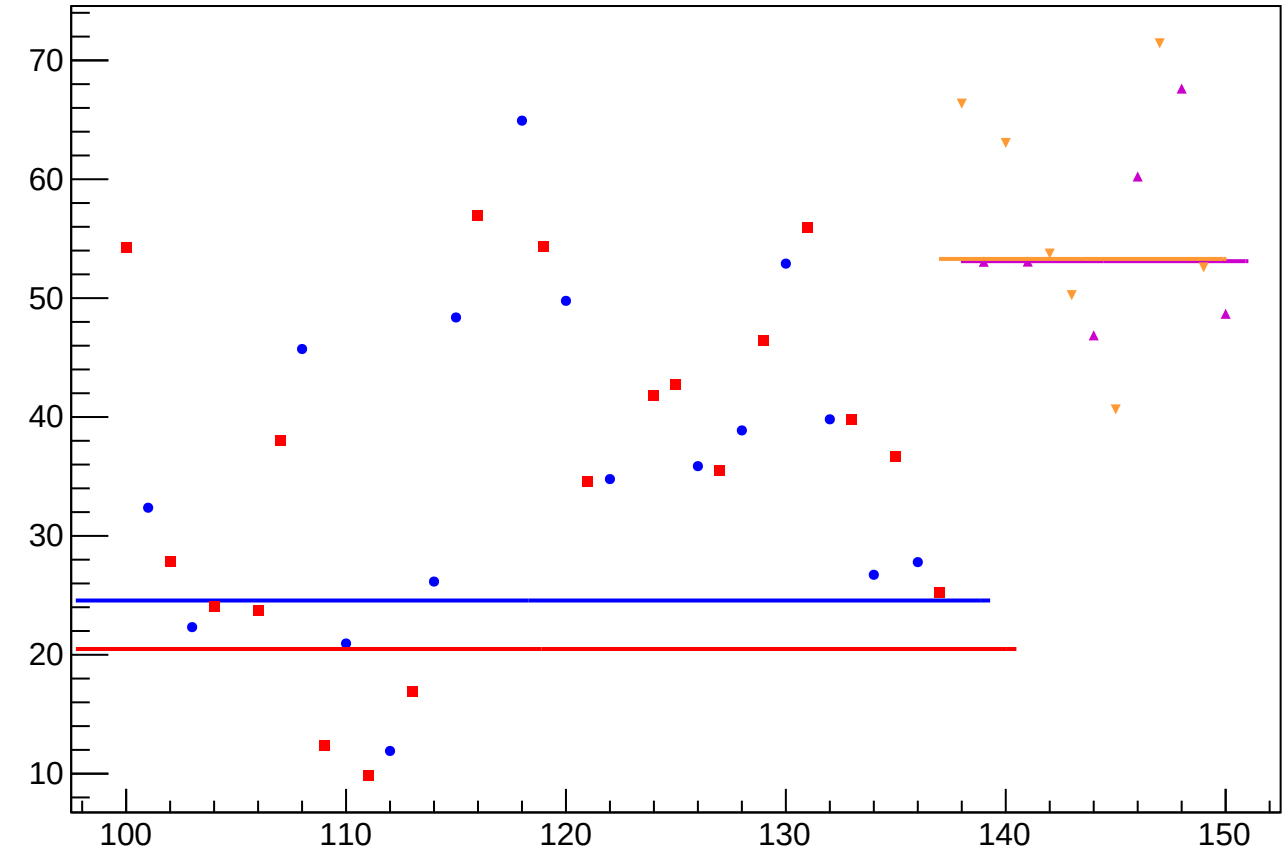
Left: -0.006+/-0.017 $\chi^2$/NDF: 15.1/12

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.019+/-0.010 $\chi^2$/NDF:21.4/21

Out: -0.005+/-0.009 $\chi^2$/NDF:21.8/25

All: 0.006+/-0.006 $\chi^2$/NDF: 46.7/47




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 53.299+/-0.017 $\chi^2$/NDF:362508.0/6

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 53.110+/-0.017 $\chi^2$/NDF:143937.0/5

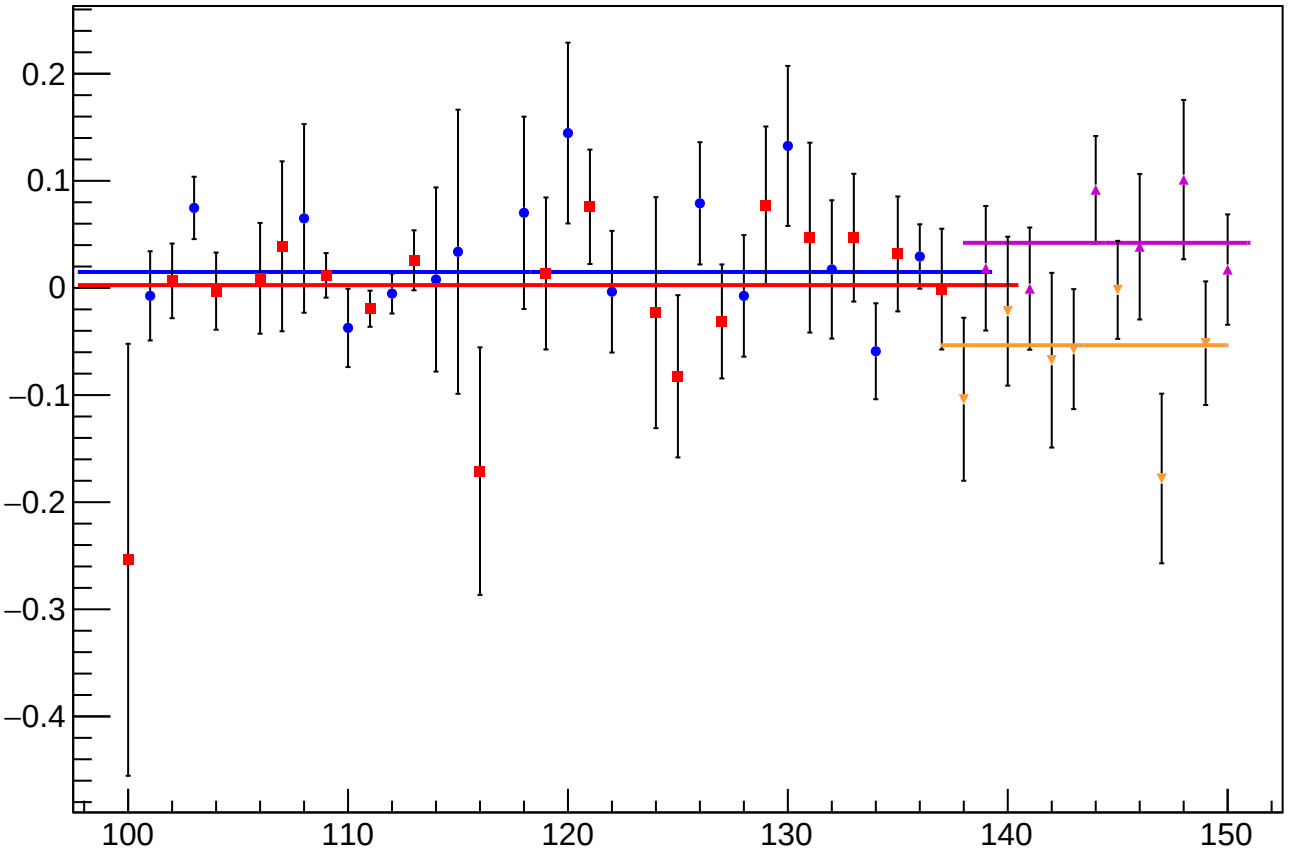
Left: 53.205+/-0.012 $\chi^2$/NDF: 506508.4/12

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 29.302+/-0.007 $\chi^2$/NDF:5040344.6/21

Out: 24.817+/-0.006 $\chi^2$/NDF:7284314.3/25

All: 26.797+/-0.005 $\chi^2$/NDF: 12564928.9/47




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.053+/-0.024 $\chi^2$/NDF:4.4/6

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.024 $\chi^2$/NDF:2.6/5

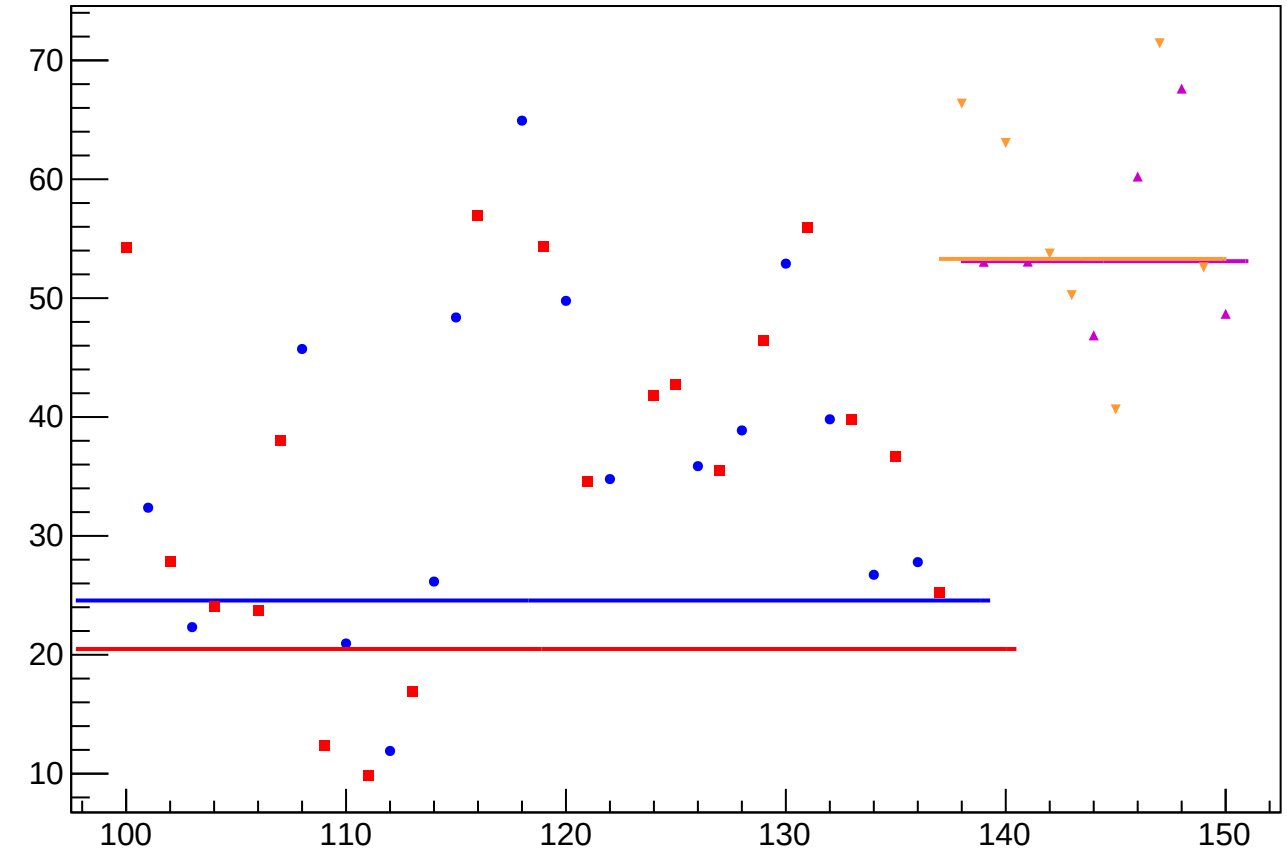
Left: -0.006+/-0.017 $\chi^2$/NDF: 15.1/12

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.019+/-0.010 $\chi^2$/NDF:21.4/21

Out: -0.005+/-0.009 $\chi^2$/NDF:21.8/25

All: 0.006+/-0.006 $\chi^2$/NDF: 46.7/47




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 53.299+/-0.017 $\chi^2$/NDF:362508.0/6

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 53.110+/-0.017 $\chi^2$/NDF:143937.0/5

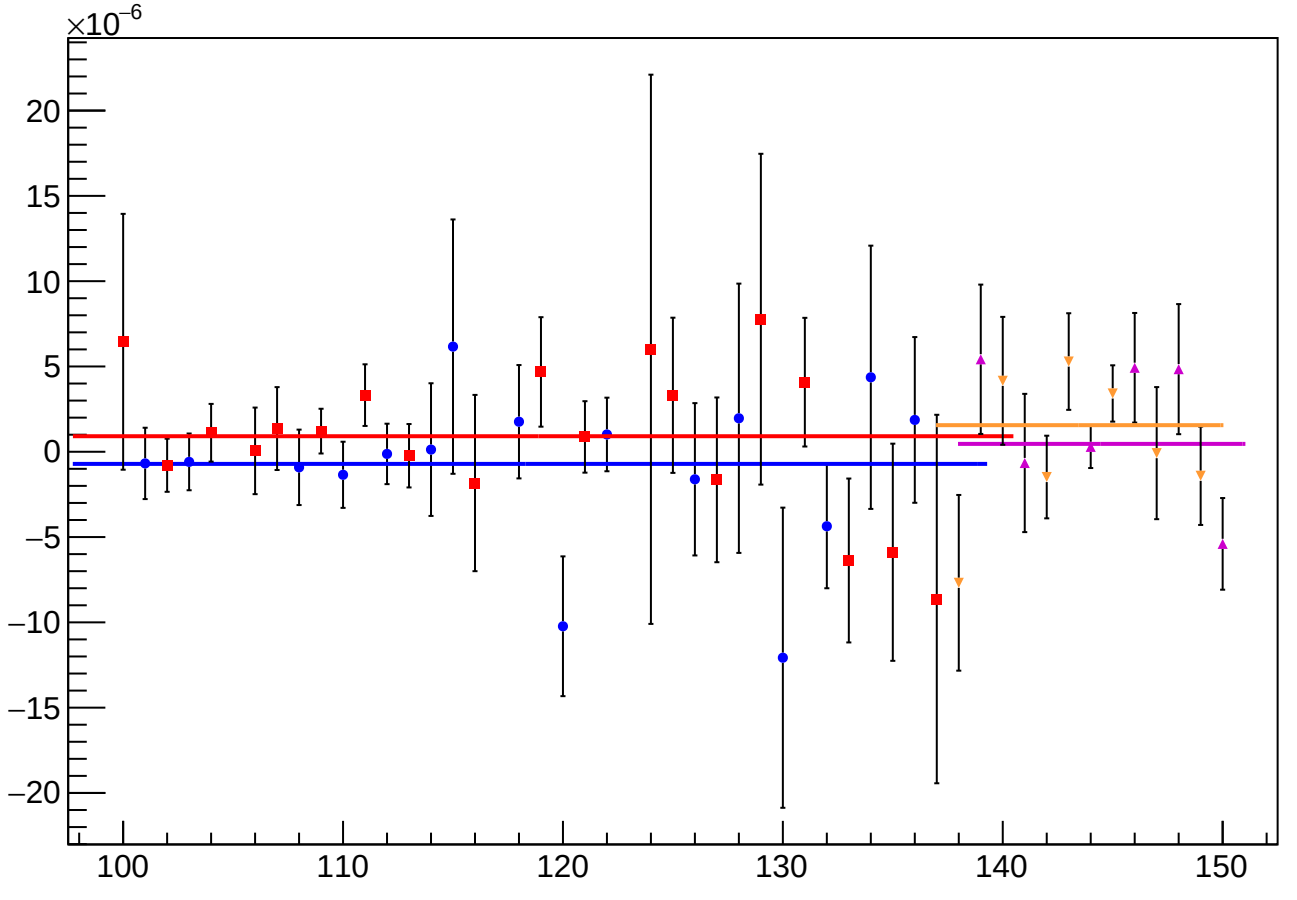
Left: 53.205+/-0.012 $\chi^2$/NDF: 506508.4/12

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 29.302+/-0.007 $\chi^2$/NDF:5040344.6/21

Out: 24.817+/-0.006 $\chi^2$/NDF:7284314.3/25

All: 26.797+/-0.005 $\chi^2$/NDF: 12564928.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:9.4/5

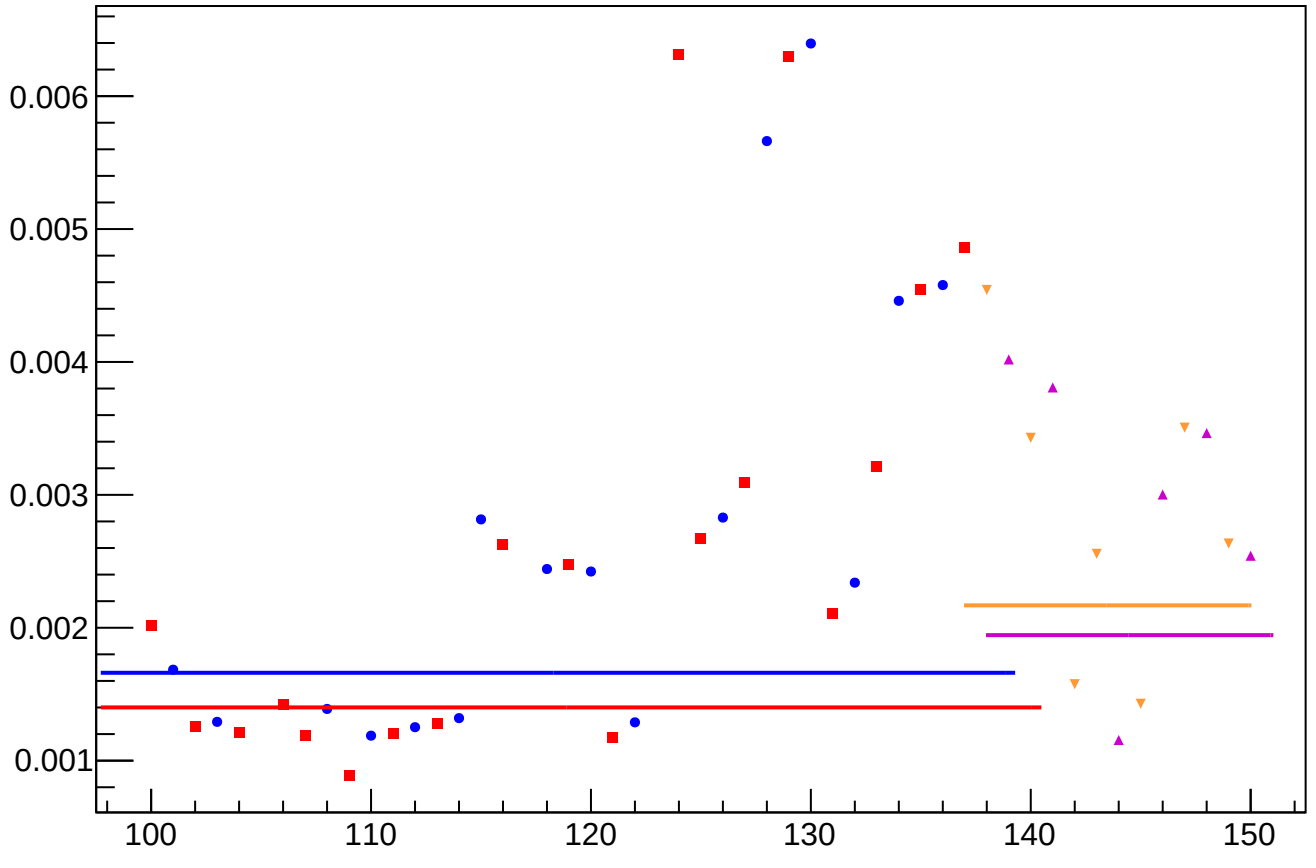
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:21.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 46.6/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2942035.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1501602.0/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2915624.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:2313648.1/5

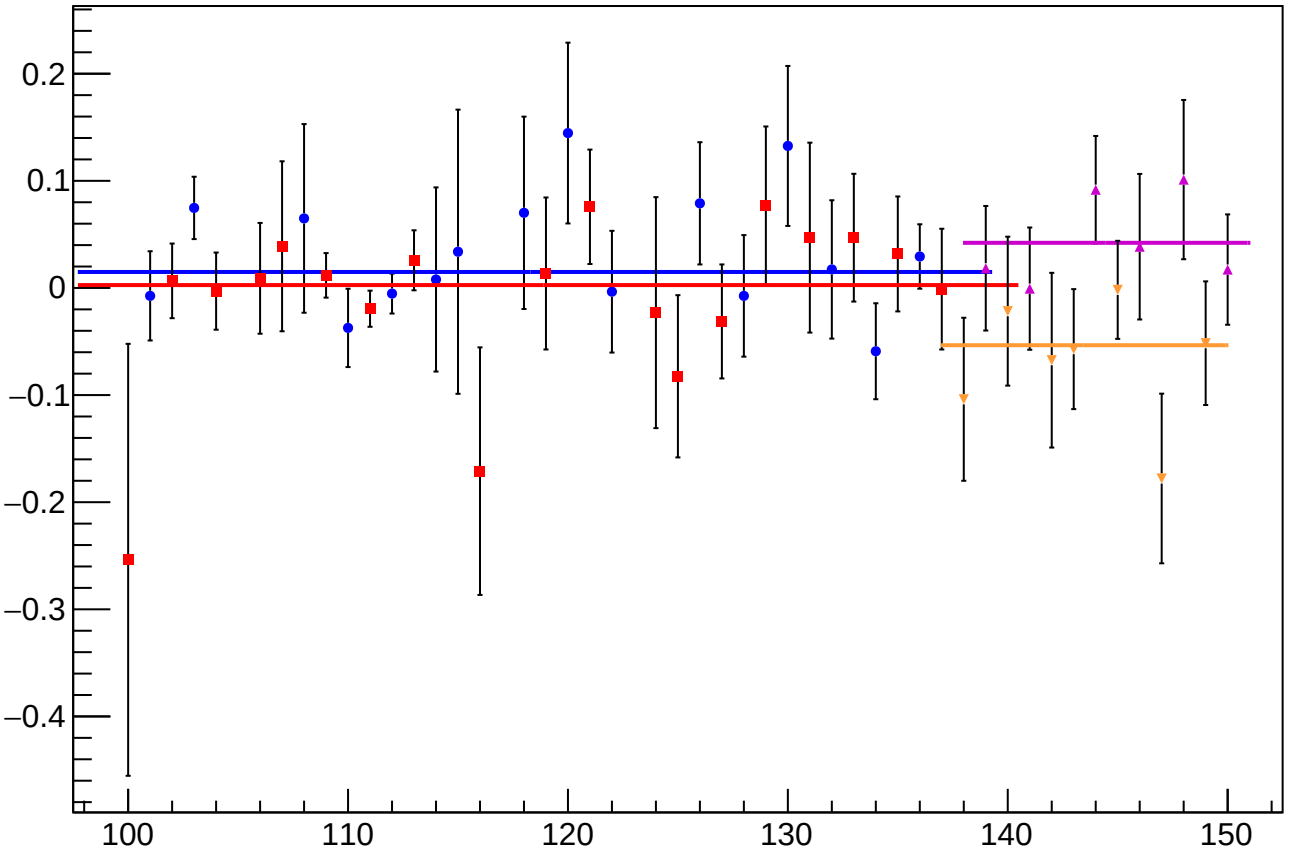
Left: 0.002+/-0.000 $\chi^2$/NDF: 3865904.8/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 6020323.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:5368089.4/21

Out: 0.002+/-0.000 $\chi^2$/NDF:5266273.8/25

All: 0.002+/-0.000 $\chi^2$/NDF: 10730207.7/47




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.053+/-0.024 $\chi^2$/NDF:4.4/6

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.024 $\chi^2$/NDF:2.6/5

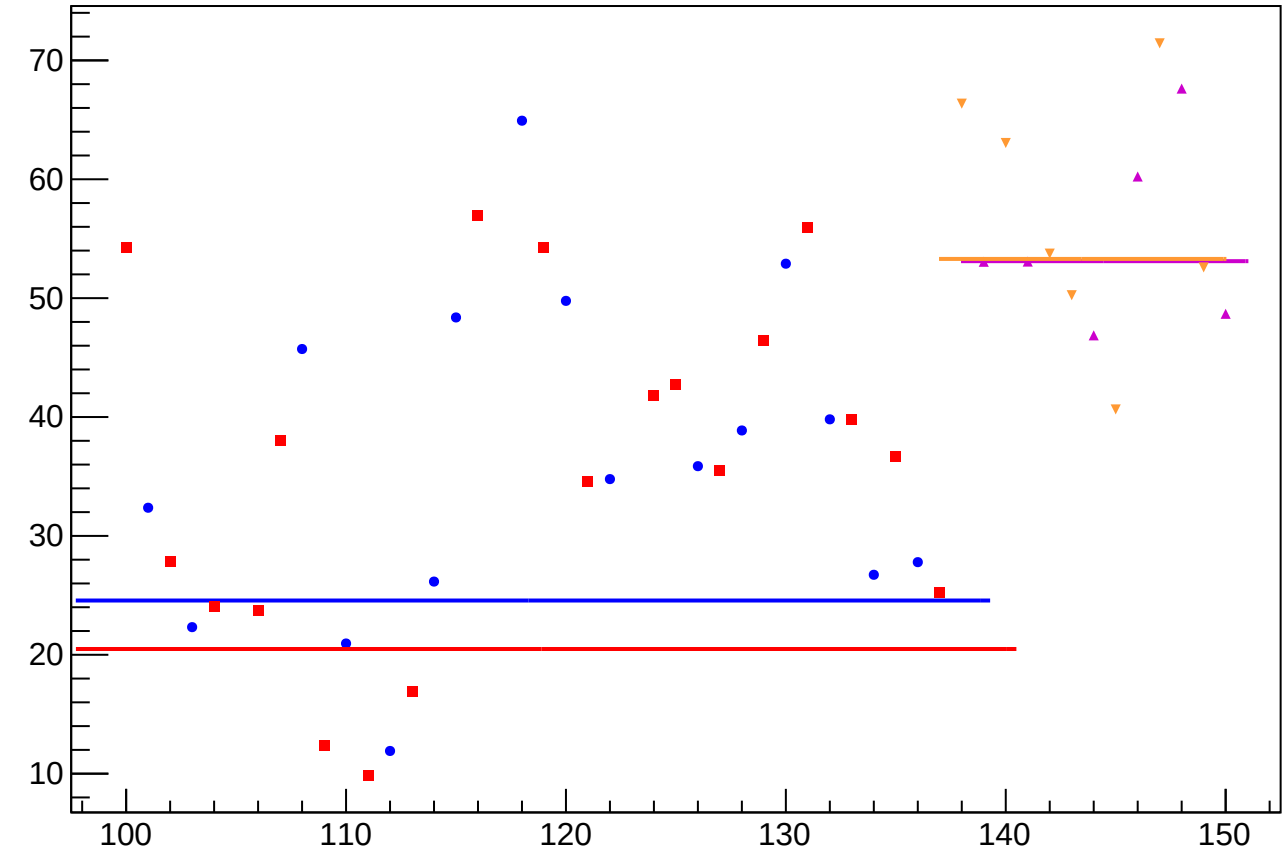
Left: -0.006+/-0.017 $\chi^2$/NDF: 15.1/12

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.019+/-0.010 $\chi^2$/NDF:21.4/21

Out: -0.005+/-0.009 $\chi^2$/NDF:21.8/25

All: 0.006+/-0.006 $\chi^2$/NDF: 46.7/47




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484434.5/15

Left Out: 53.299+/-0.017 $\chi^2$/NDF:362562.3/6

Right Out: 20.487+/-0.007 $\chi^2$/NDF: 3583888.1/18

Left In: 53.111+/-0.017 $\chi^2$/NDF:143953.6/5

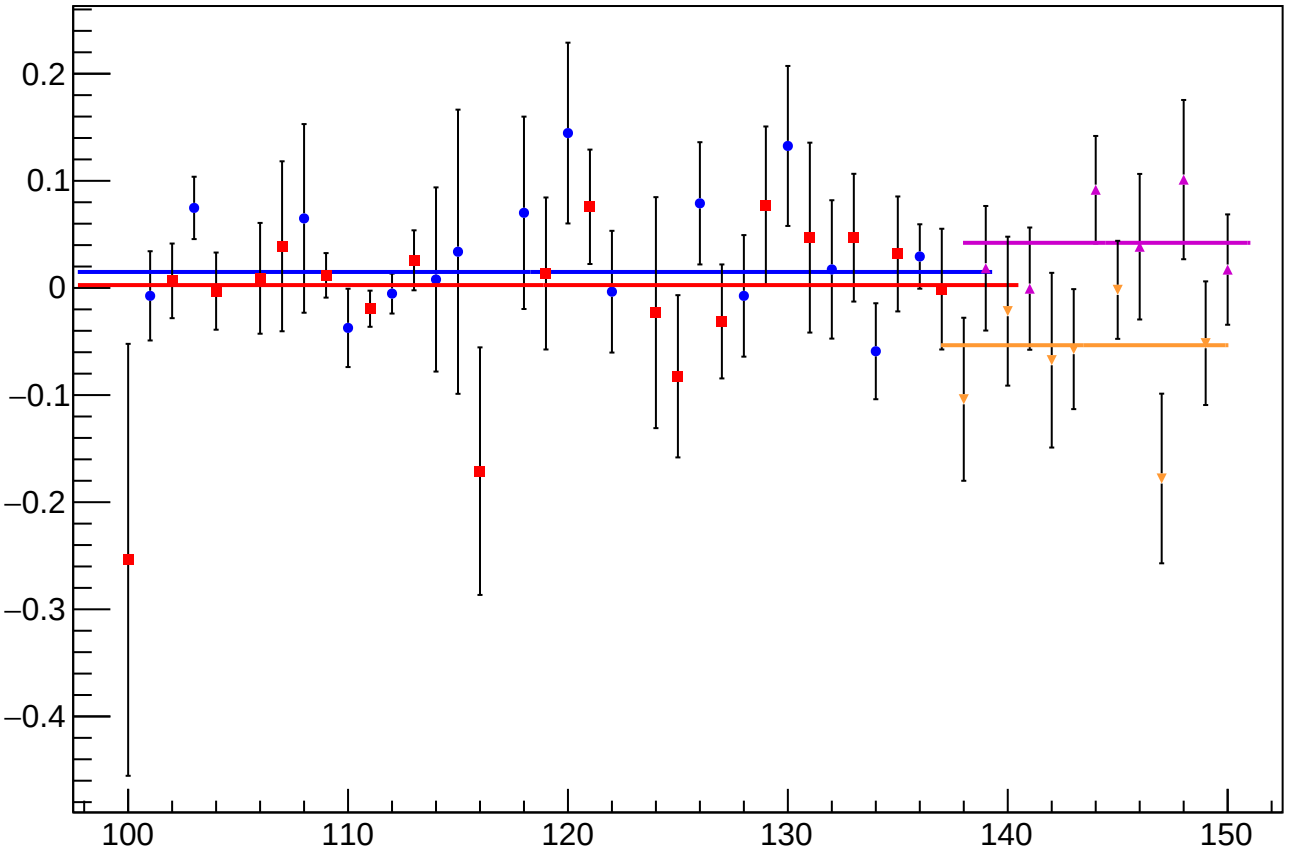
Left: 53.206+/-0.012 $\chi^2$/NDF: 506578.8/12

Right: 22.247+/-0.005 $\chi^2$/NDF: 6237010.7/34

In: 29.301+/-0.007 $\chi^2$/NDF:5040493.7/21

Out: 24.817+/-0.006 $\chi^2$/NDF:7284478.1/25

All: 26.796+/-0.005 $\chi^2$/NDF: 12565257.9/47




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.053+/-0.024 $\chi^2$/NDF:4.4/6

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.024 $\chi^2$/NDF:2.6/5

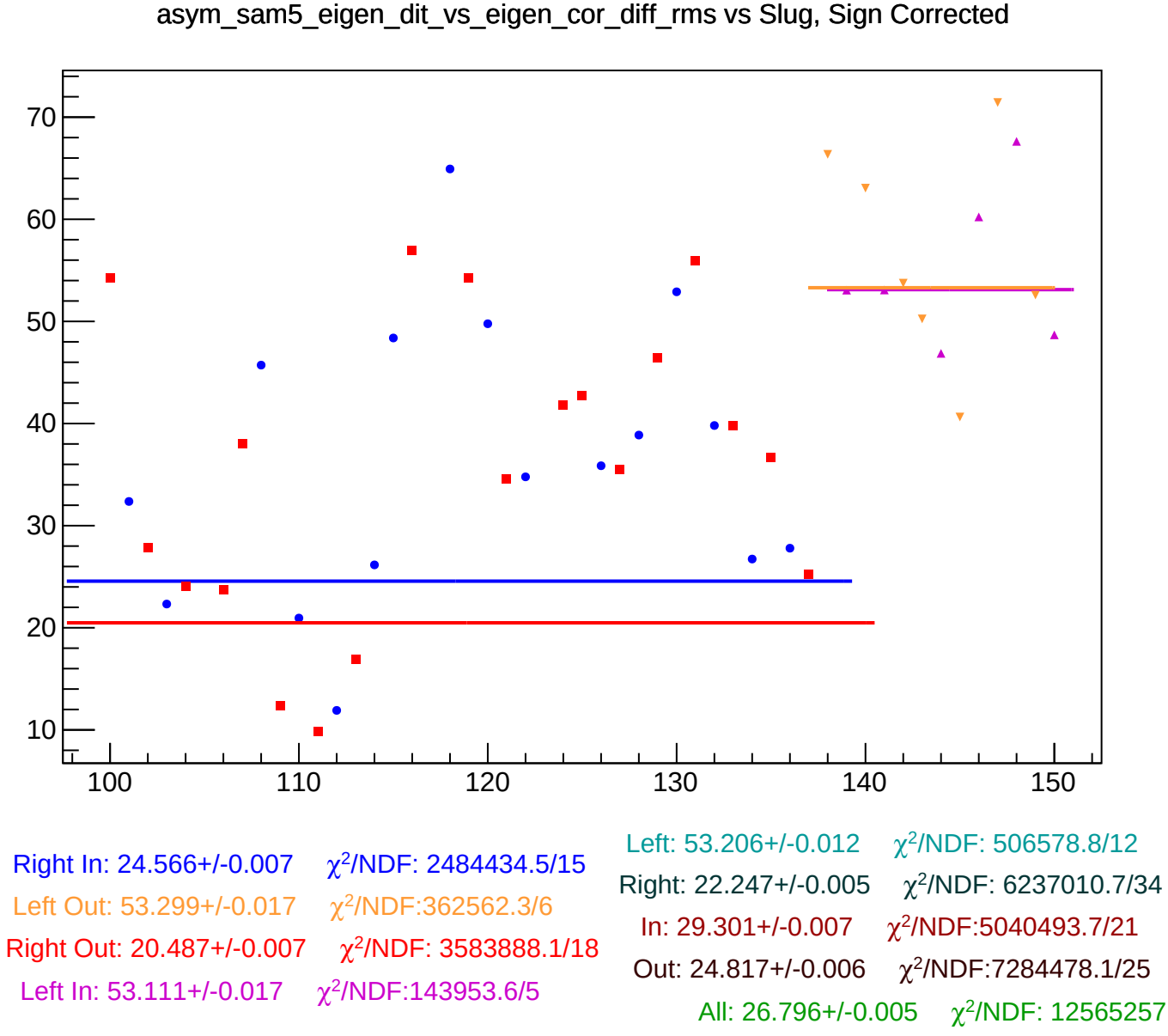
Left: -0.006+/-0.017 $\chi^2$/NDF: 15.1/12

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.019+/-0.010 $\chi^2$/NDF:21.4/21

Out: -0.005+/-0.009 $\chi^2$/NDF:21.8/25

All: 0.006+/-0.006 $\chi^2$/NDF: 46.7/47


asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
70
60
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20
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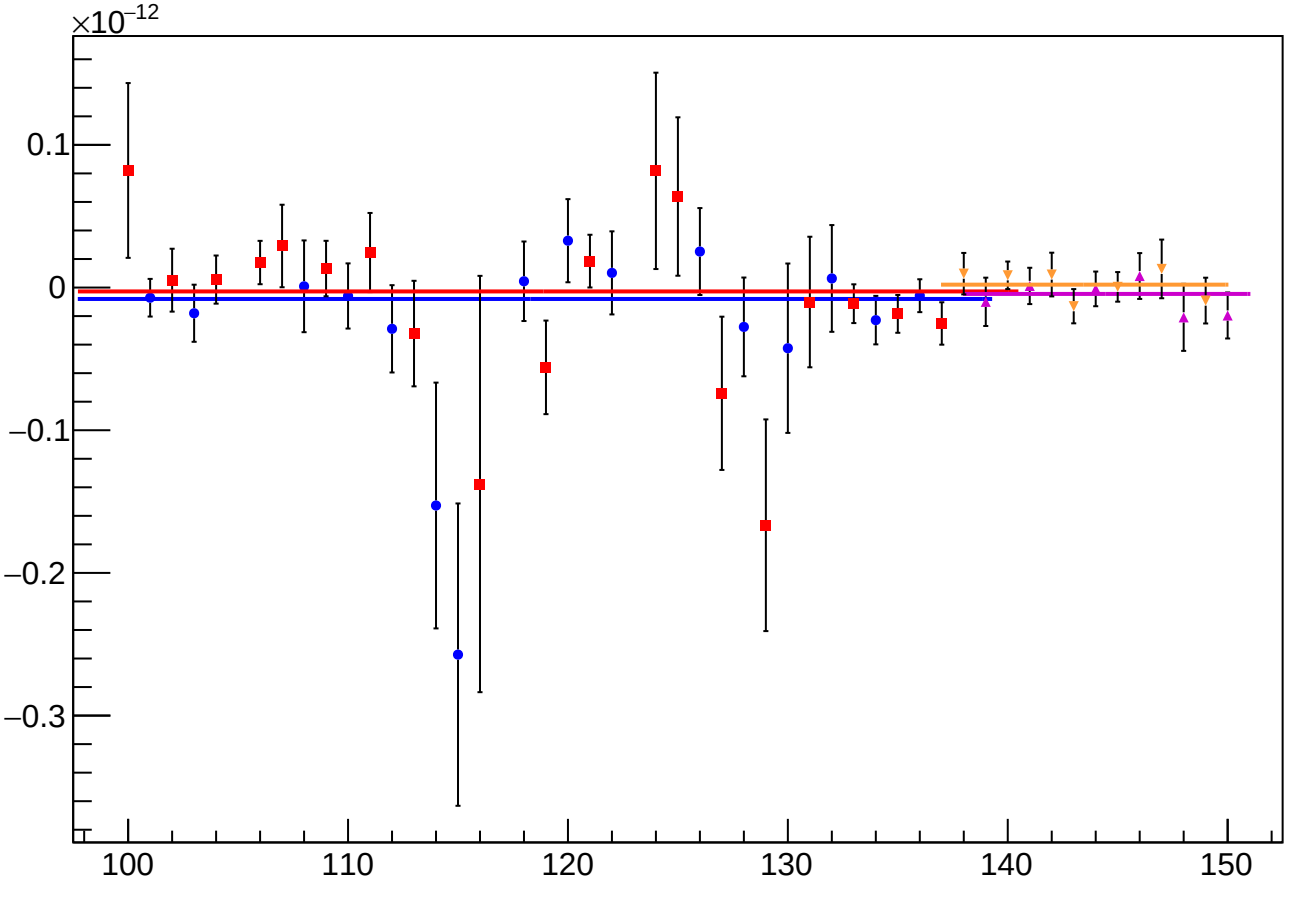
100
110
120
130
140
150
Right In: 24.566+/-0.007 χ²/NDF: 2484434.5/15
Left Out: 53.299+/-0.017 χ²/NDF:362562.3/6
Right Out: 20.487+/-0.007 χ²/NDF: 3583888.1/18
Left In: 53.111+/-0.017 χ²/NDF:143953.6/5
Left: 53.206+/-0.012 χ²/NDF: 506578.8/12
Right: 22.247+/-0.005 χ²/NDF: 6237010.7/34
In: 29.301+/-0.007 χ²/NDF:5040493.7/21
Out: 24.817+/-0.006 χ²/NDF:7284478.1/25
All: 26.796+/-0.005 χ²/NDF: 12565257.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.4/5

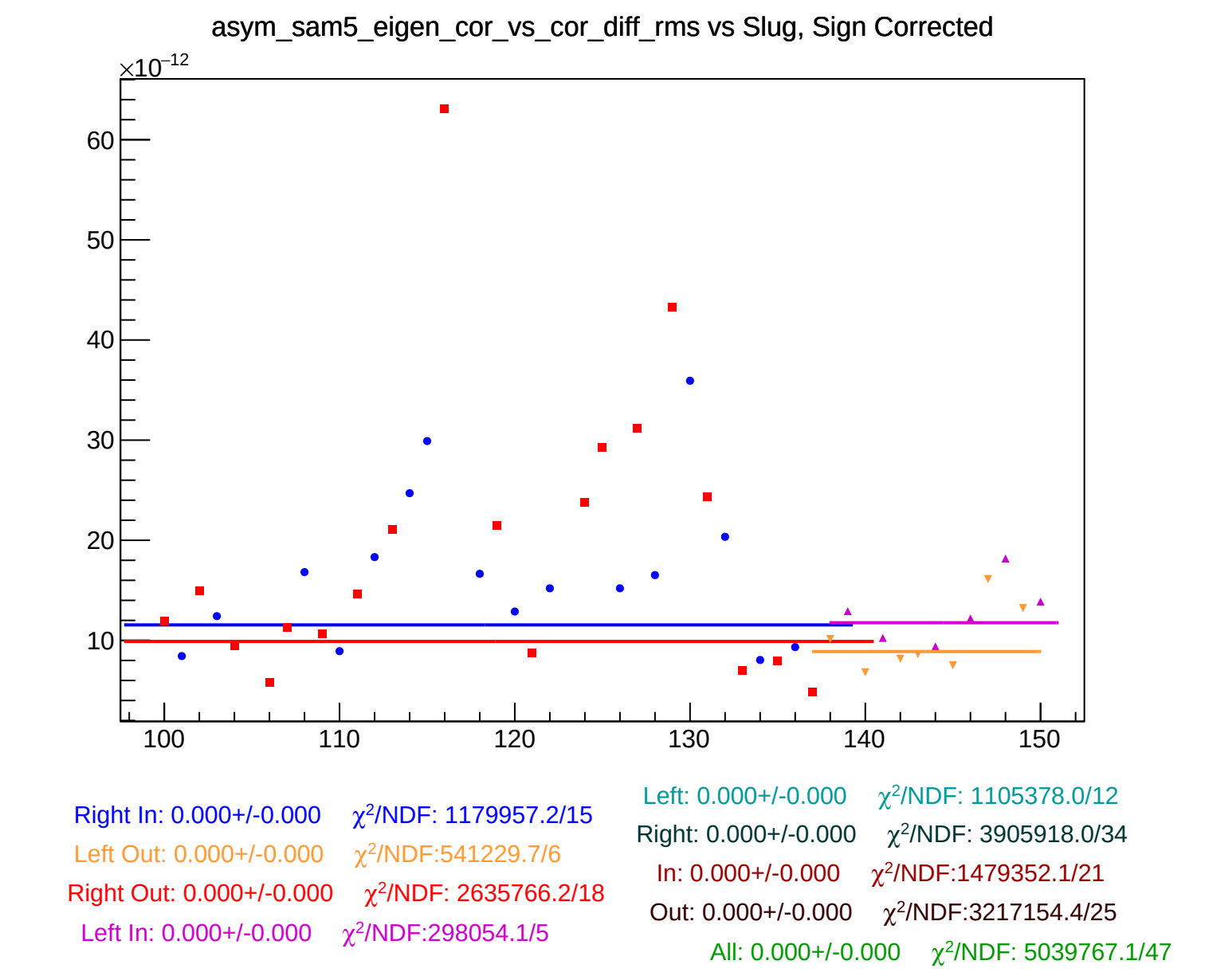
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.2/47


asym_sam5_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
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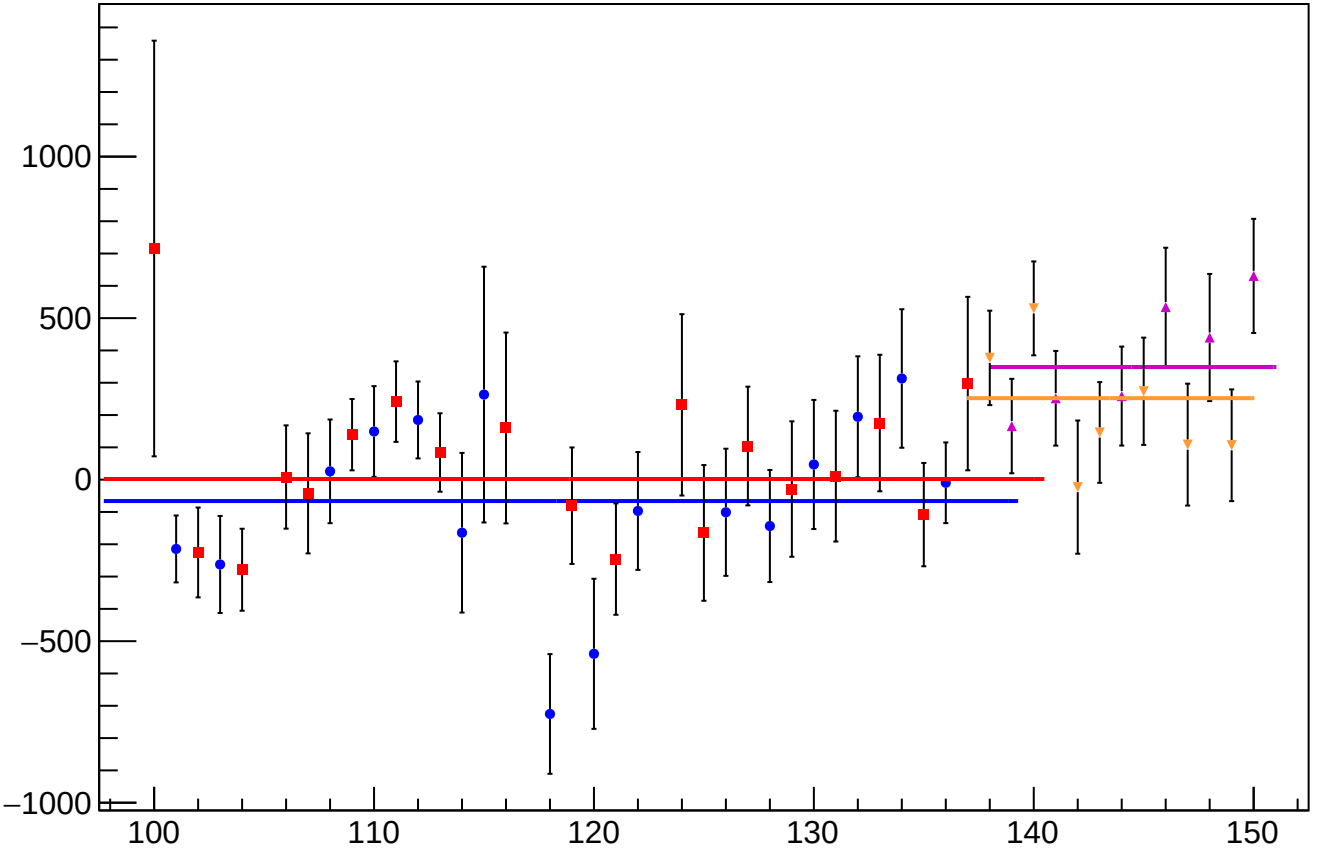
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1179957.2/15
Left Out: 0.000+/-0.000 χ²/NDF:541229.7/6
Right Out: 0.000+/-0.000 χ²/NDF: 2635766.2/18
Left In: 0.000+/-0.000 χ²/NDF:298054.1/5
Left: 0.000+/-0.000 χ²/NDF: 1105378.0/12
Right: 0.000+/-0.000 χ²/NDF: 3905918.0/34
In: 0.000+/-0.000 χ²/NDF:1479352.1/21
Out: 0.000+/-0.000 χ²/NDF:3217154.4/25
All: 0.000+/-0.000 χ²/NDF: 5039767.1/47

# reg_asym_sam6_mean vs Slug, Sign Corrected




Right In: -66.230+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 252.292+/-62.423 $\chi^2$/NDF:7.9/6

Right Out: 2.017+/-38.866 $\chi^2$/NDF: 21.1/18

Left In: 348.714+/-66.889 $\chi^2$/NDF:6.1/5

Left: 297.177+/-45.637 $\chi^2$/NDF: 15.2/12

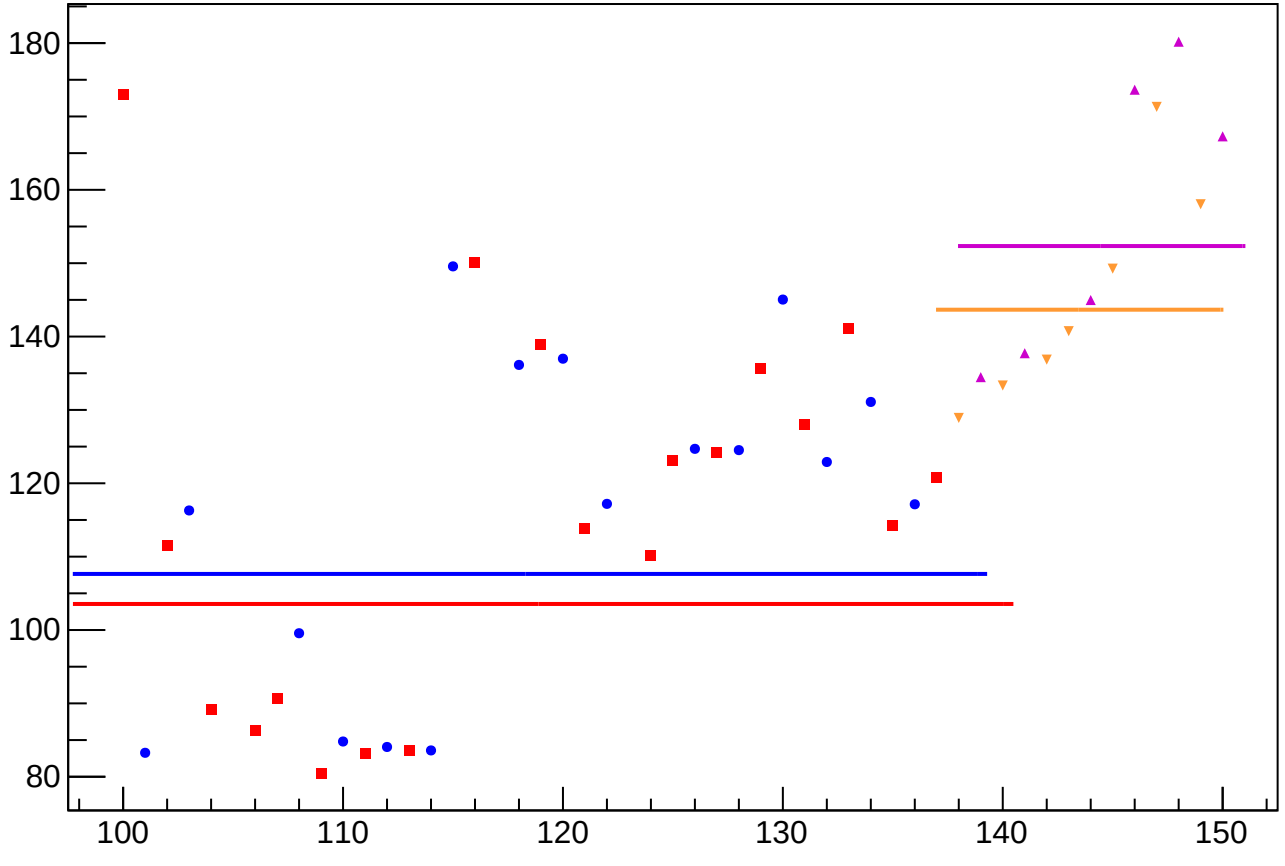
Right: -30.337+/-28.186 $\chi^2$/NDF: 57.0/34

In: 46.841+/-34.917 $\chi^2$/NDF:68.5/21

Out: 71.936+/-32.994 $\chi^2$/NDF:40.6/25

All: 60.098+/-23.981 $\chi^2$/NDF: 109.4/47

# reg_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532821.7/15

Left Out: 143.661+/-0.044 $\chi^2$/NDF:92403.1/6

Right Out: 103.550+/-0.027 $\chi^2$/NDF: 617345.0/18

Left In: 152.337+/-0.047 $\chi^2$/NDF:135696.4/5

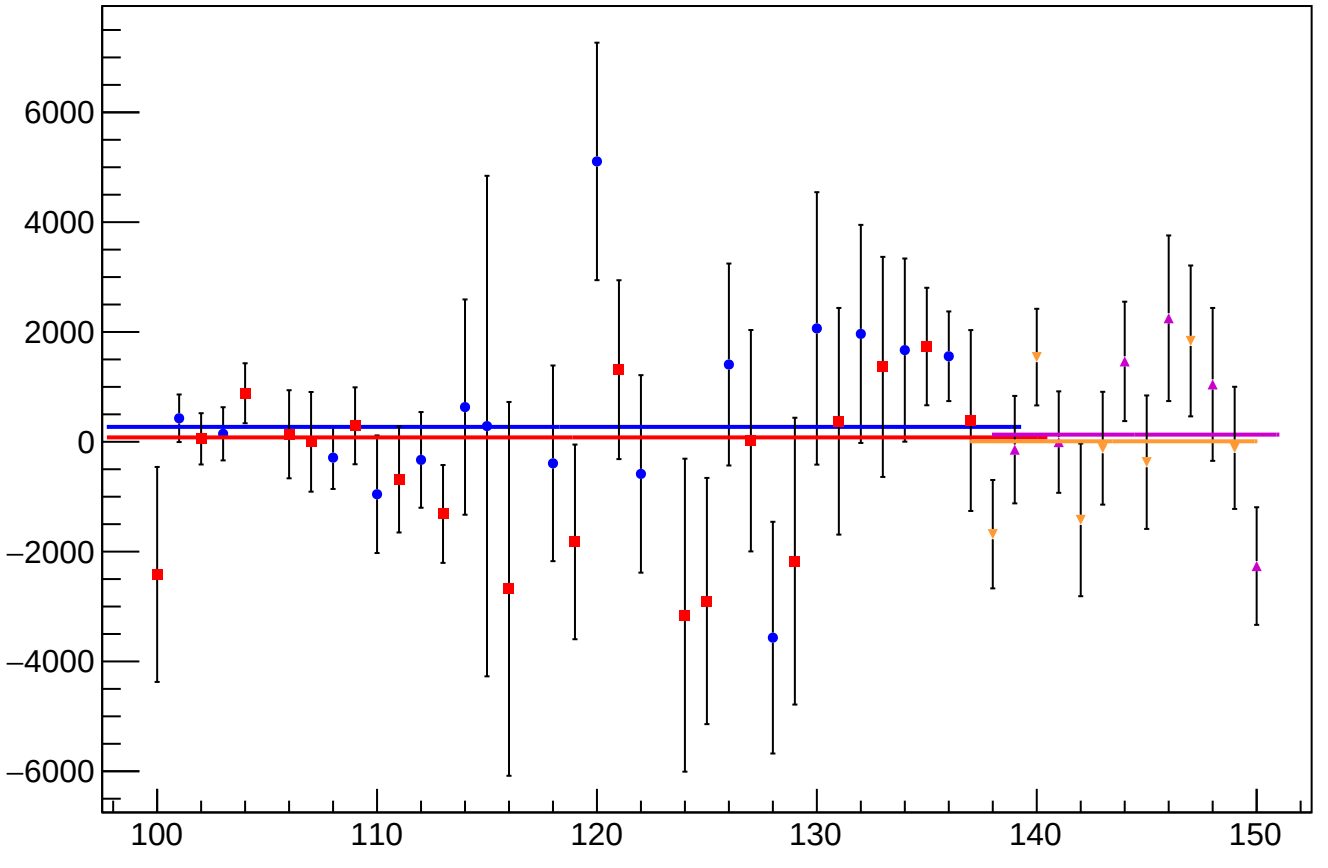
Left: 147.700+/-0.032 $\chi^2$/NDF: 246085.8/12

Right: 105.491+/-0.020 $\chi^2$/NDF: 1160688.9/34

In: 119.823+/-0.025 $\chi^2$/NDF:1318112.2/21

Out: 114.755+/-0.023 $\chi^2$/NDF:1304847.0/25

All: 117.146+/-0.017 $\chi^2$/NDF: 2645213.3/47




Right In: 271.505+/-230.663 $\chi^2$/NDF: 16.5/15

Left Out: 8.948+/-415.299 $\chi^2$/NDF:8.9/6

Right Out: 80.094+/-232.154 $\chi^2$/NDF: 16.0/18

Left In: 130.730+/-452.252 $\chi^2$/NDF:9.0/5

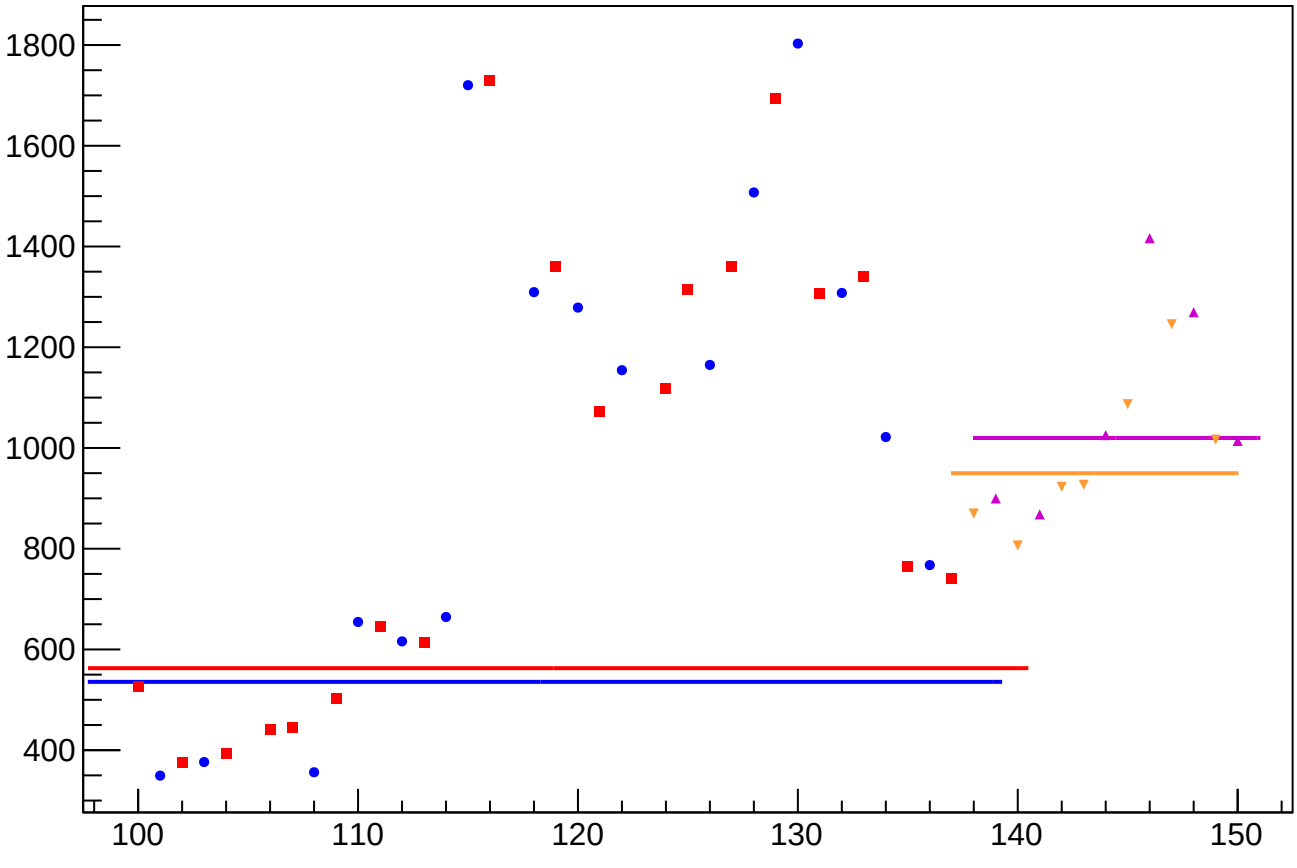
Left: 64.661+/-305.892 $\chi^2$/NDF: 18.0/12

Right: 176.417+/-163.628 $\chi^2$/NDF: 32.8/34

In: 242.444+/-205.480 $\chi^2$/NDF:25.6/21

Out: 63.155+/-202.642 $\chi^2$/NDF:25.0/25

All: 151.553+/-144.282 $\chi^2$/NDF: 50.9/47




Right In: 535.683+/-0.163 $\chi^2$/NDF: 3632390.5/15

Left Out: 949.914+/-0.294 $\chi^2$/NDF:193290.5/6

Right Out: 562.845+/-0.164 $\chi^2$/NDF: 3111031.5/18

Left In: 1019.820+/-0.320 $\chi^2$/NDF:286805.5/5

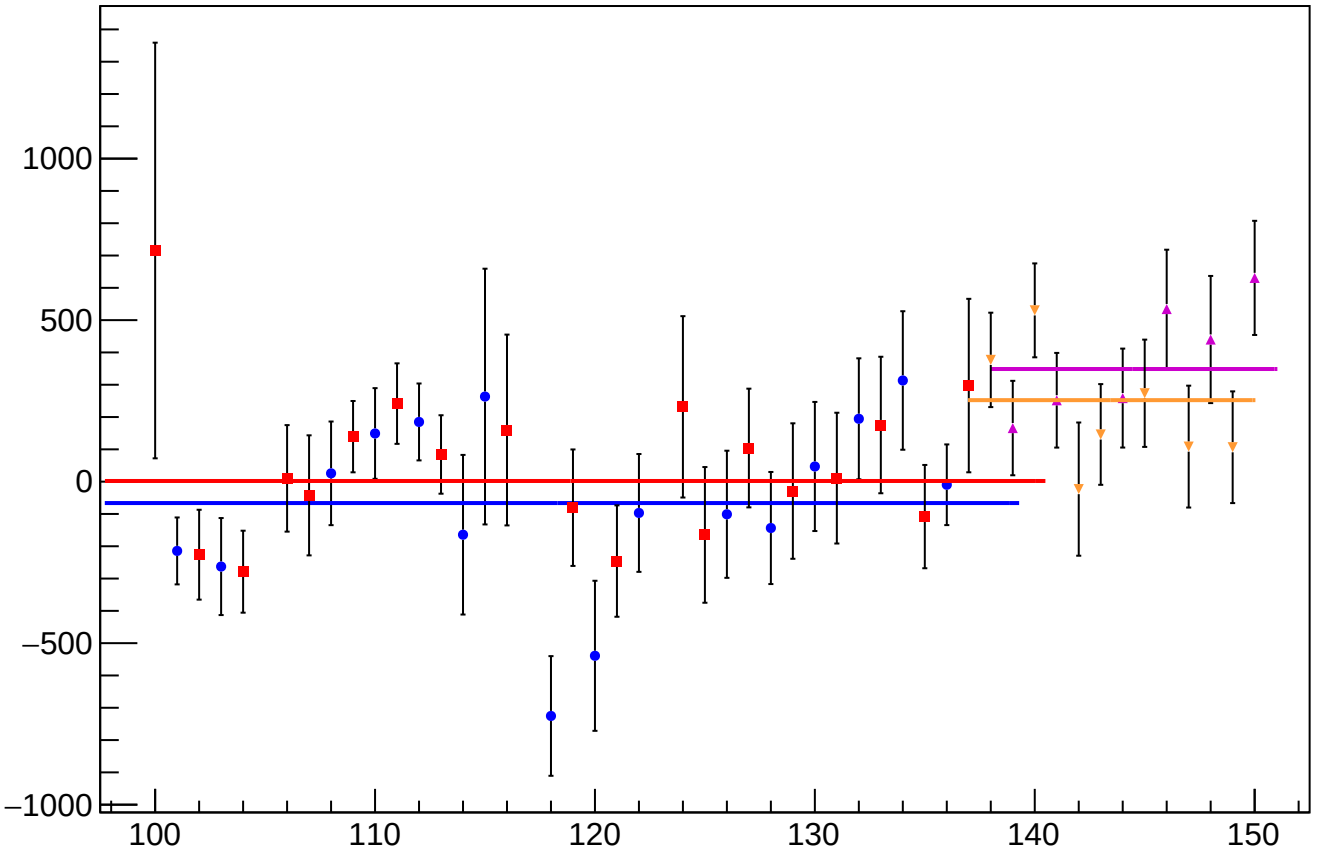
Left: 981.895+/-0.216 $\chi^2$/NDF: 506020.3/12

Right: 549.176+/-0.116 $\chi^2$/NDF: 6757198.8/34

In: 635.625+/-0.145 $\chi^2$/NDF:5738015.6/21

Out: 655.001+/-0.143 $\chi^2$/NDF:4628029.0/25

All: 645.448+/-0.102 $\chi^2$/NDF: 10375060.8/47




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 252.301+/-62.423 $\chi^2$/NDF:7.9/6

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 348.712+/-66.889 $\chi^2$/NDF:6.1/5

Left: 297.181+/-45.637 $\chi^2$/NDF: 15.2/12

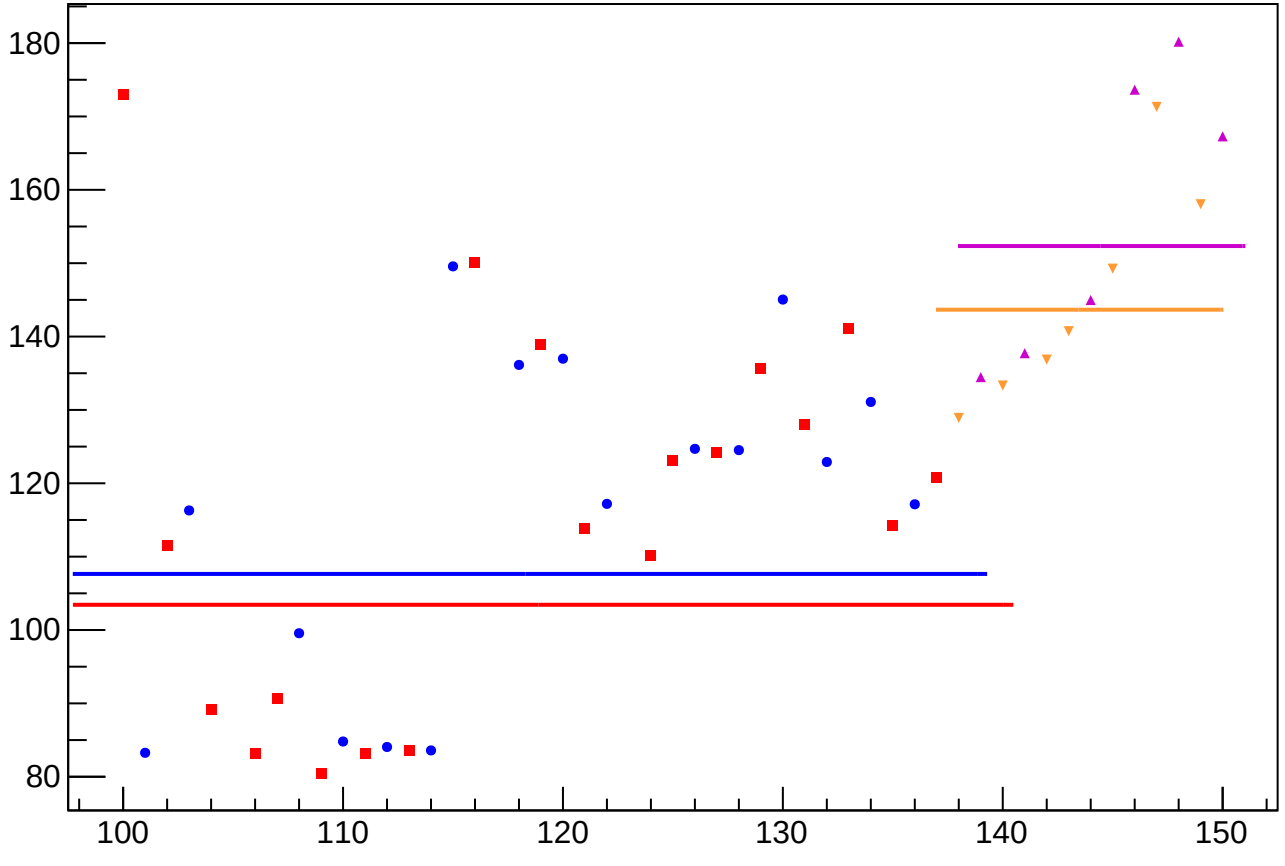
Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: 46.822+/-34.917 $\chi^2$/NDF:68.5/21

Out: 72.152+/-33.037 $\chi^2$/NDF:40.6/25

All: 60.188+/-23.998 $\chi^2$/NDF: 109.5/47

# cor_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 143.661+/-0.044 $\chi^2$/NDF:92403.1/6

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 152.337+/-0.047 $\chi^2$/NDF:135696.4/5

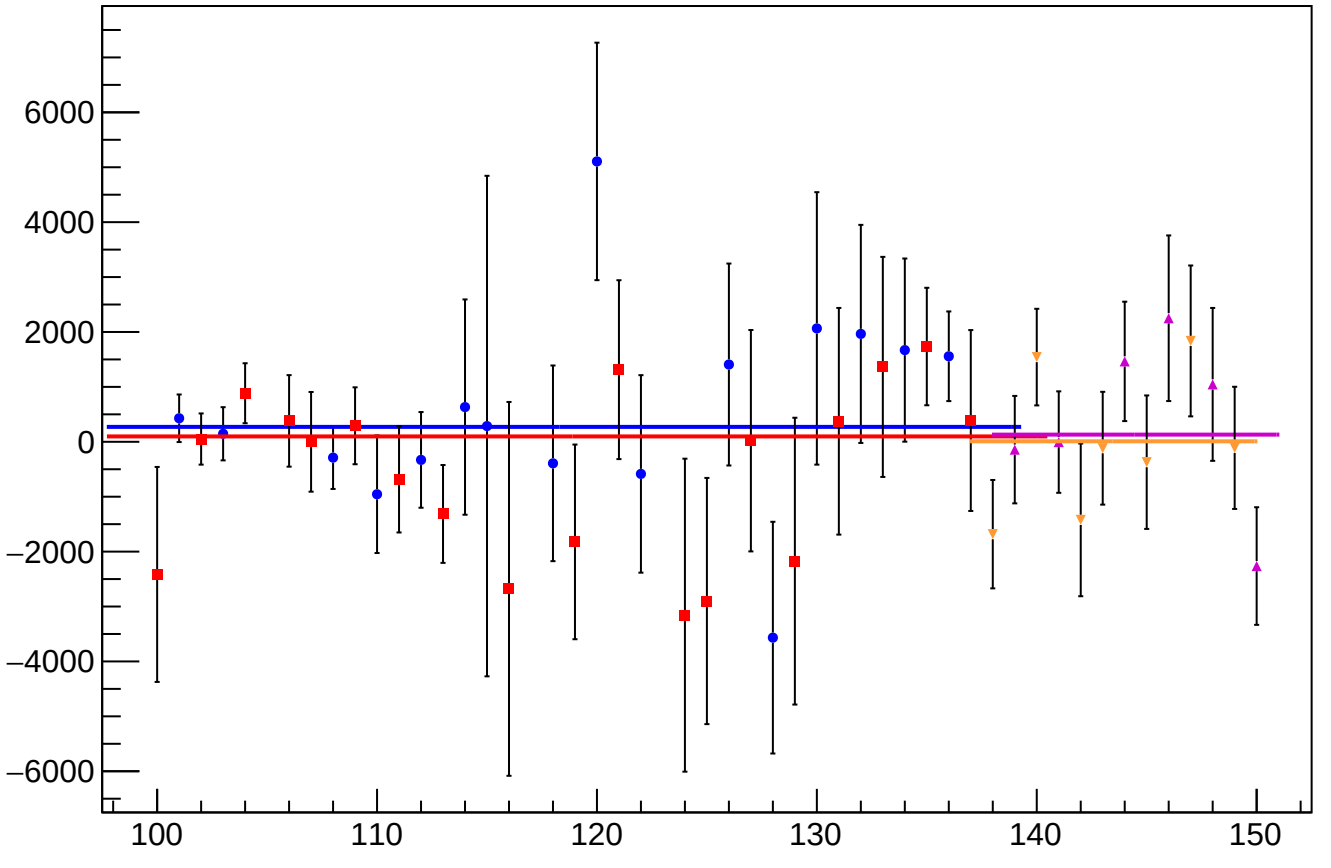
Left: 147.700+/-0.032 $\chi^2$/NDF: 246085.8/12

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 119.823+/-0.025 $\chi^2$/NDF:1318111.8/21

Out: 114.704+/-0.023 $\chi^2$/NDF:1314978.3/25

All: 117.122+/-0.017 $\chi^2$/NDF: 2655771.4/47




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: 8.960+/-415.299 $\chi^2$/NDF:8.9/6

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: 130.716+/-452.252 $\chi^2$/NDF:9.0/5

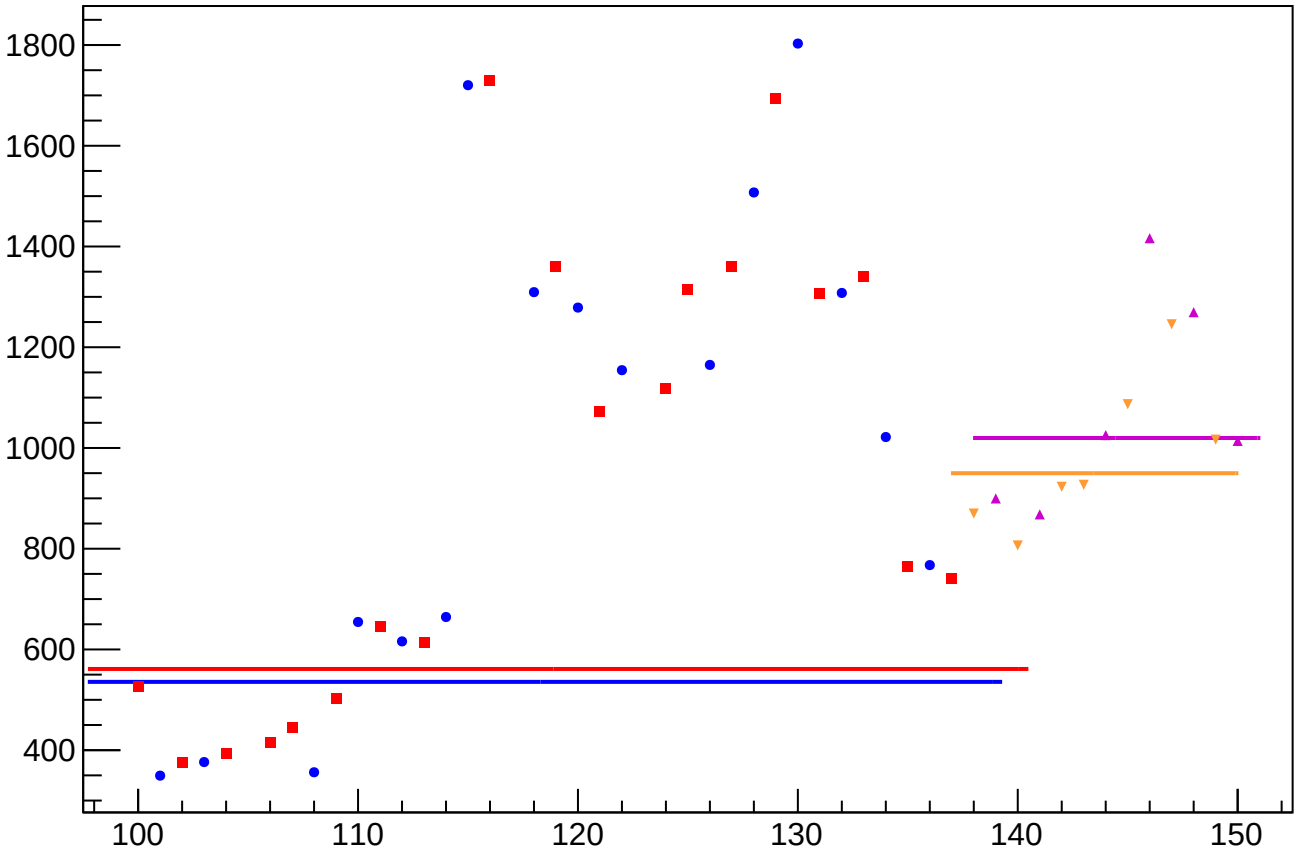
Left: 64.661+/-305.892 $\chi^2$/NDF: 18.0/12

Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 242.554+/-205.475 $\chi^2$/NDF:25.6/21

Out: 76.597+/-203.058 $\chi^2$/NDF:25.1/25

All: 158.594+/-144.431 $\chi^2$/NDF: 51.0/47




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 949.914+/-0.294 $\chi^2$/NDF:193290.7/6

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 1019.820+/-0.320 $\chi^2$/NDF:286805.8/5

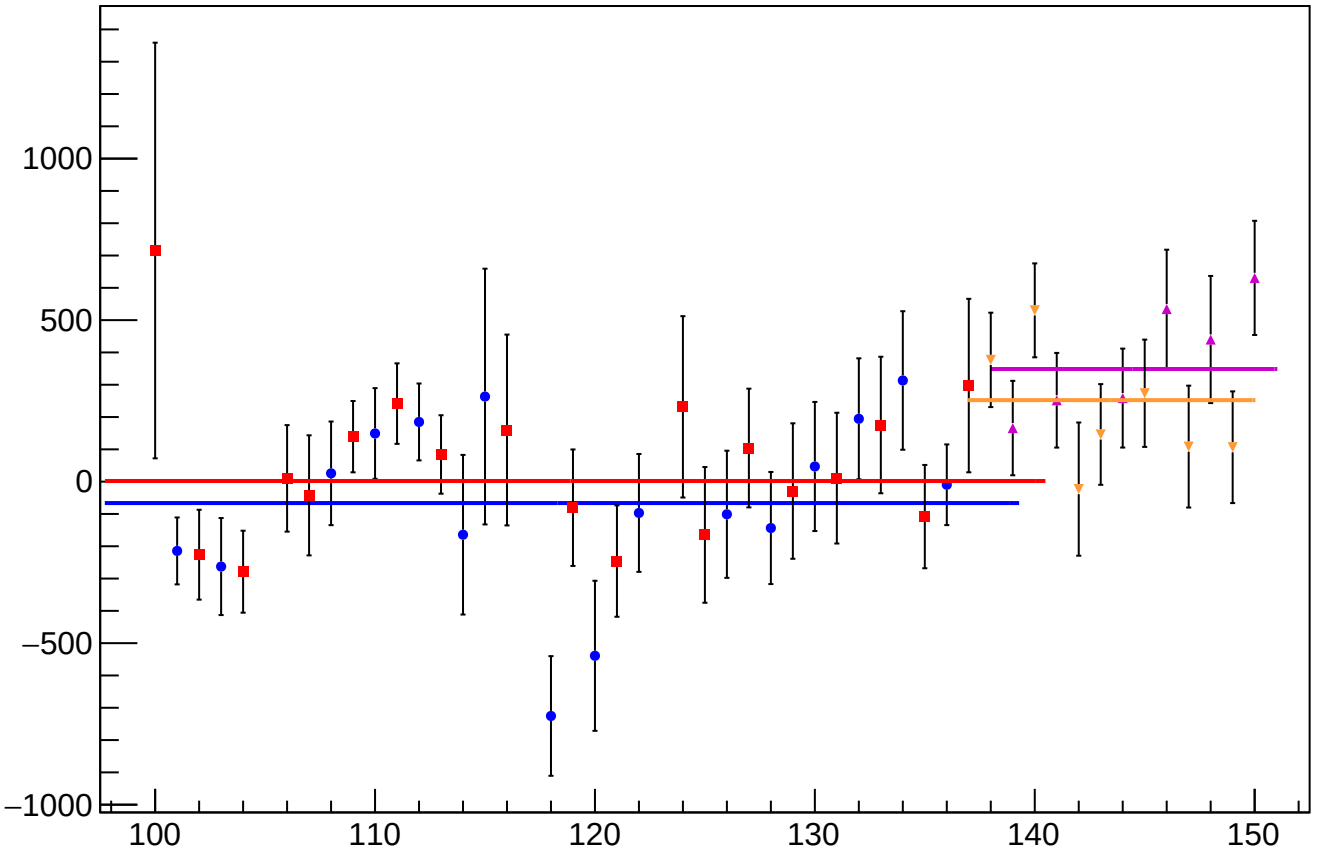
Left: 981.895+/-0.216 $\chi^2$/NDF: 506021.0/12

Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 635.603+/-0.145 $\chi^2$/NDF:5738403.1/21

Out: 654.182+/-0.144 $\chi^2$/NDF:4656838.8/25

All: 645.002+/-0.102 $\chi^2$/NDF: 10403514.7/47




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 252.301+/-62.423 $\chi^2$/NDF:7.9/6

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 348.712+/-66.889 $\chi^2$/NDF:6.1/5

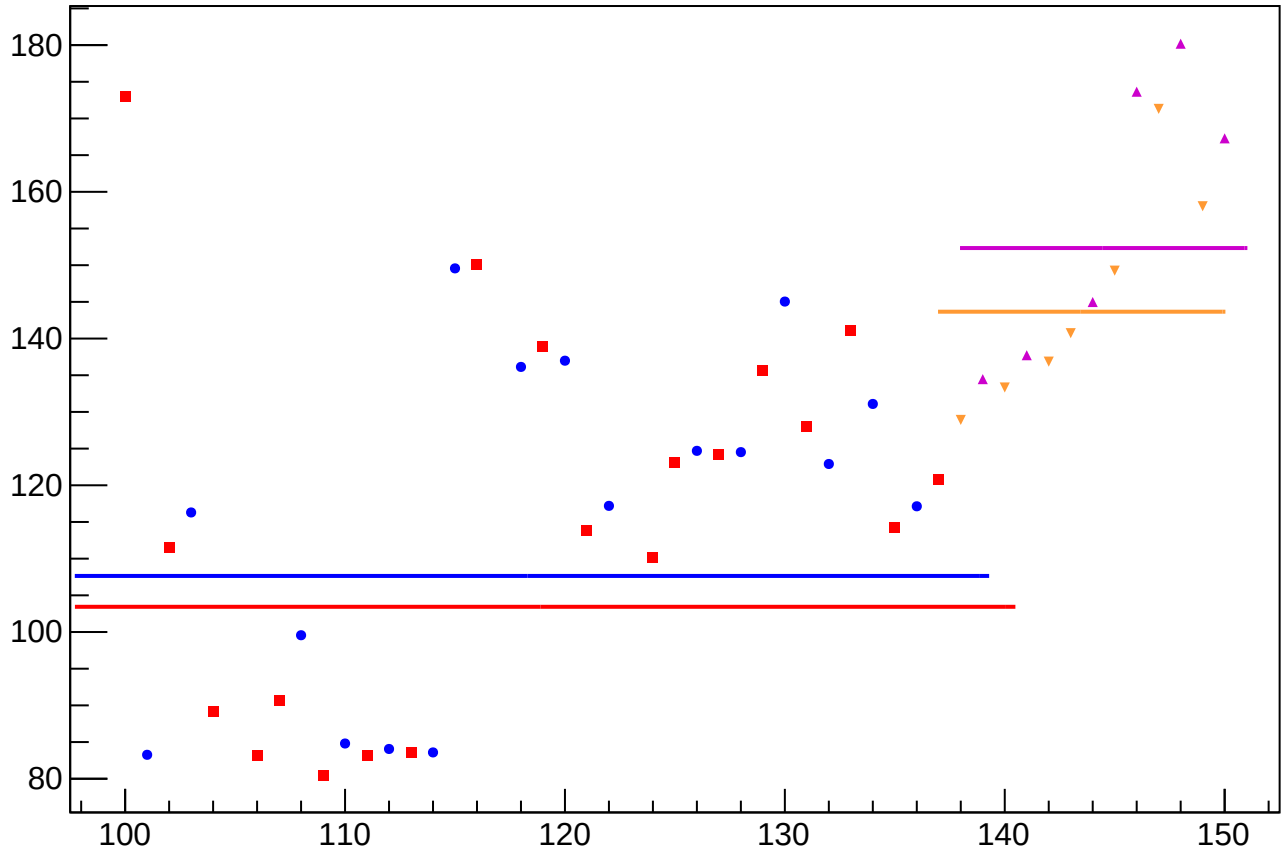
Left: 297.181+/-45.637 $\chi^2$/NDF: 15.2/12

Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: 46.822+/-34.917 $\chi^2$/NDF:68.5/21

Out: 72.152+/-33.037 $\chi^2$/NDF:40.6/25

All: 60.188+/-23.998 $\chi^2$/NDF: 109.5/47




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 143.661+/-0.044 $\chi^2$/NDF:92403.1/6

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 152.337+/-0.047 $\chi^2$/NDF:135696.4/5

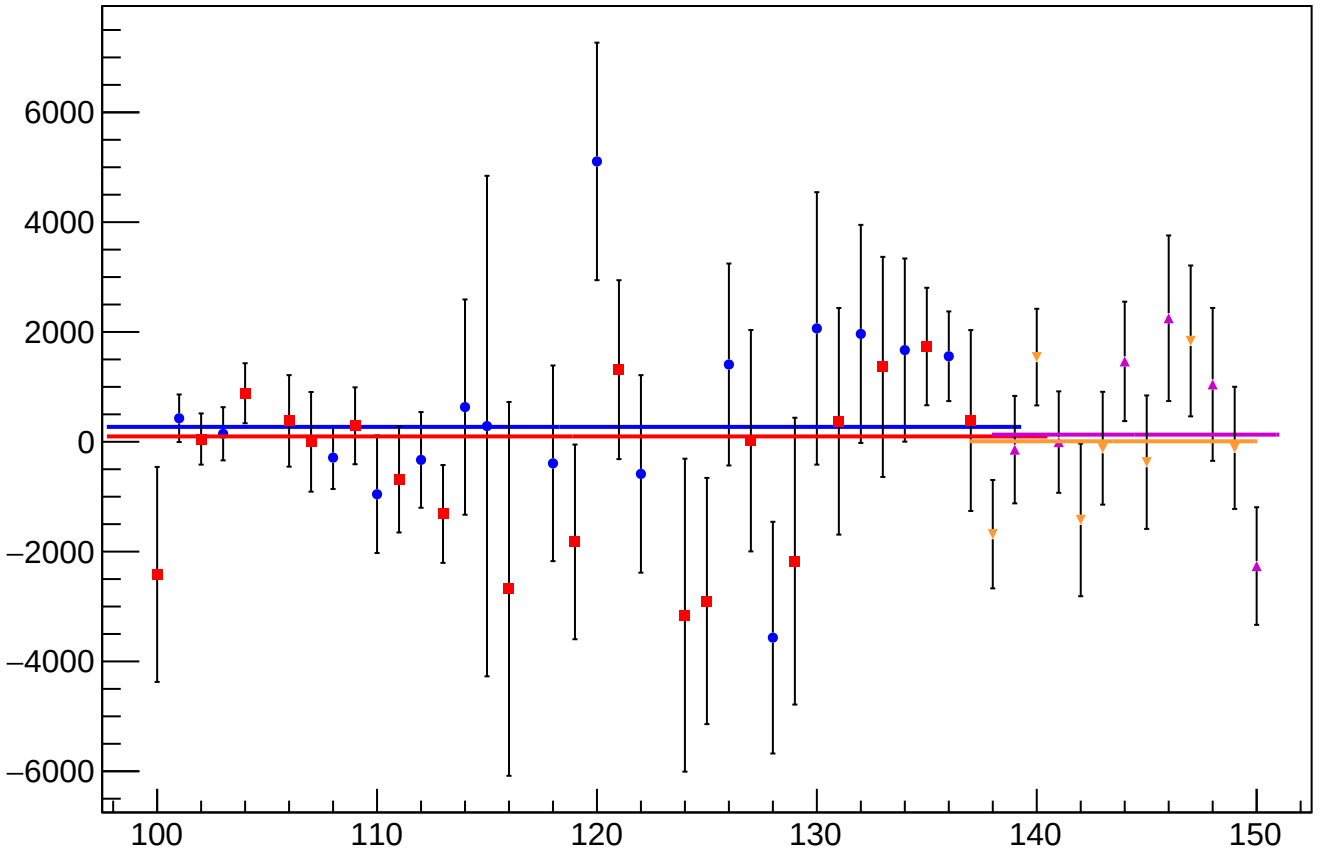
Left: 147.700+/-0.032 $\chi^2$/NDF: 246085.8/12

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 119.823+/-0.025 $\chi^2$/NDF:1318111.8/21

Out: 114.704+/-0.023 $\chi^2$/NDF:1314978.3/25

All: 117.122+/-0.017 $\chi^2$/NDF: 2655771.4/47




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: 8.960+/-415.299 $\chi^2$/NDF:8.9/6

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: 130.716+/-452.252 $\chi^2$/NDF:9.0/5

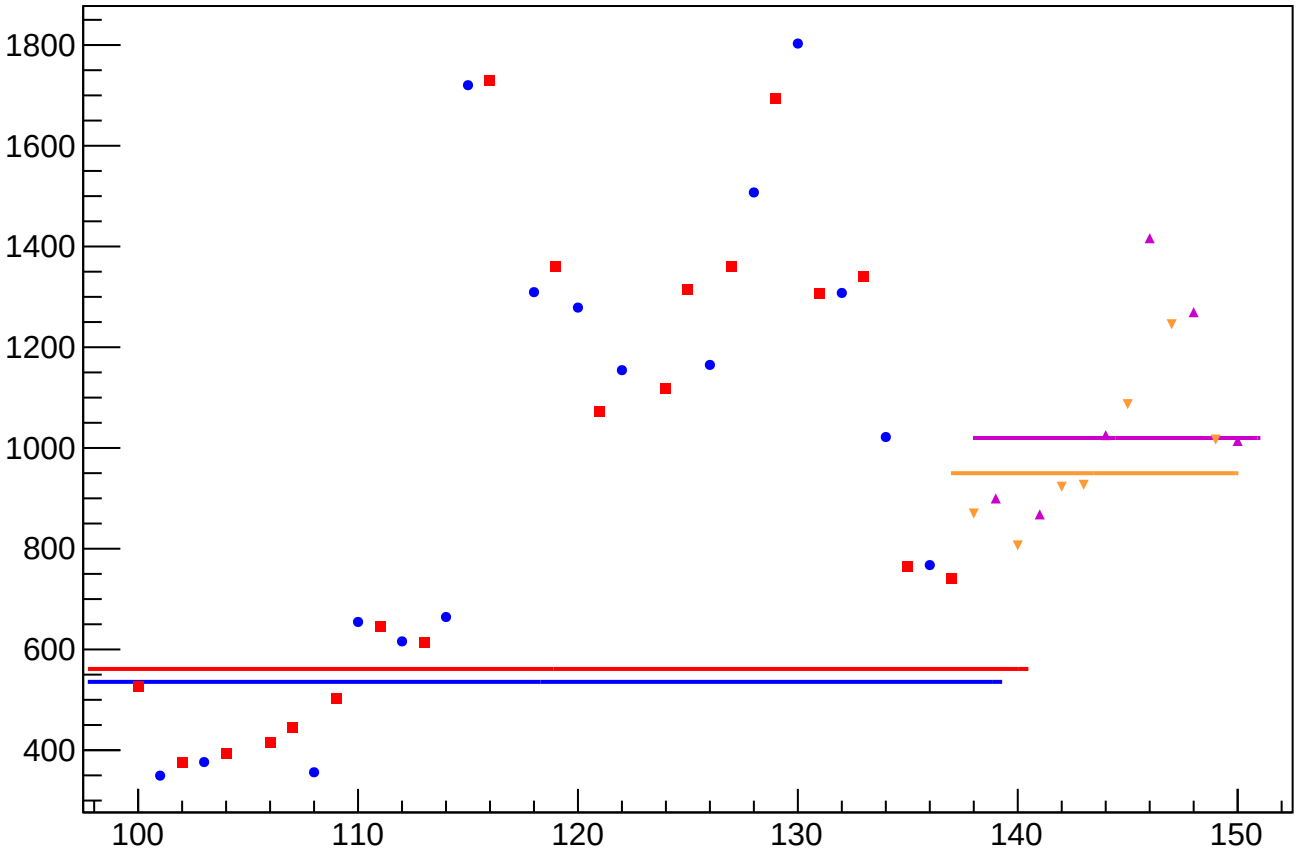
Left: 64.661+/-305.892 $\chi^2$/NDF: 18.0/12

Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 242.554+/-205.475 $\chi^2$/NDF:25.6/21

Out: 76.597+/-203.058 $\chi^2$/NDF:25.1/25

All: 158.594+/-144.431 $\chi^2$/NDF: 51.0/47




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 949.914+/-0.294 $\chi^2$/NDF:193290.7/6

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 1019.820+/-0.320 $\chi^2$/NDF:286805.8/5

Left: 981.895+/-0.216 $\chi^2$/NDF: 506021.0/12

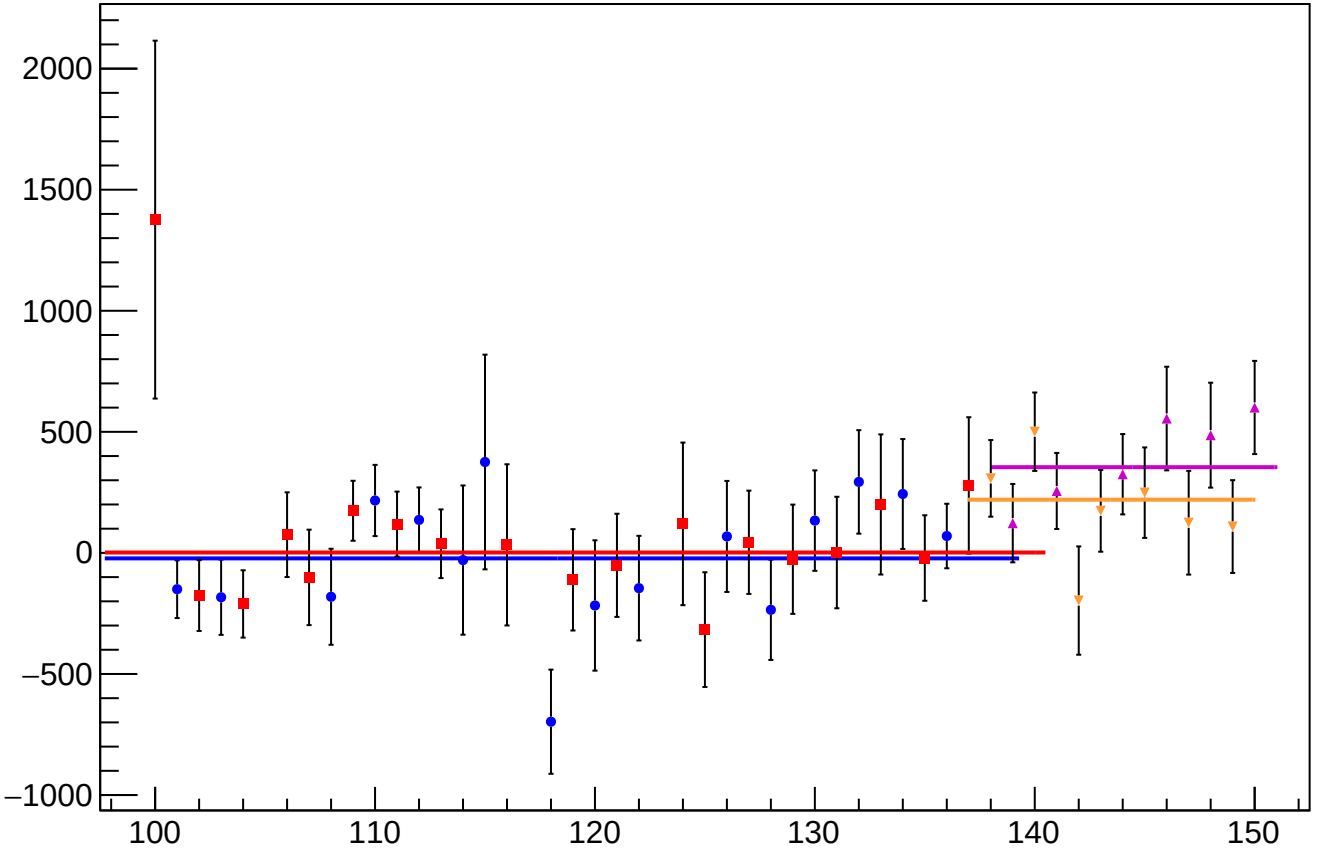
Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 635.603+/-0.145 $\chi^2$/NDF:5738403.1/21

Out: 654.182+/-0.144 $\chi^2$/NDF:4656838.8/25

All: 645.002+/-0.102 $\chi^2$/NDF: 10403514.7/47

# dit_asym_sam6_mean vs Slug, Sign Corrected




Right In: -22.678+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 219.830+/-68.860 $\chi^2$/NDF:7.4/6

Right Out: 1.600+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 354.018+/-73.489 $\chi^2$/NDF:5.4/5

Left: 282.565+/-50.248 $\chi^2$/NDF: 14.5/12

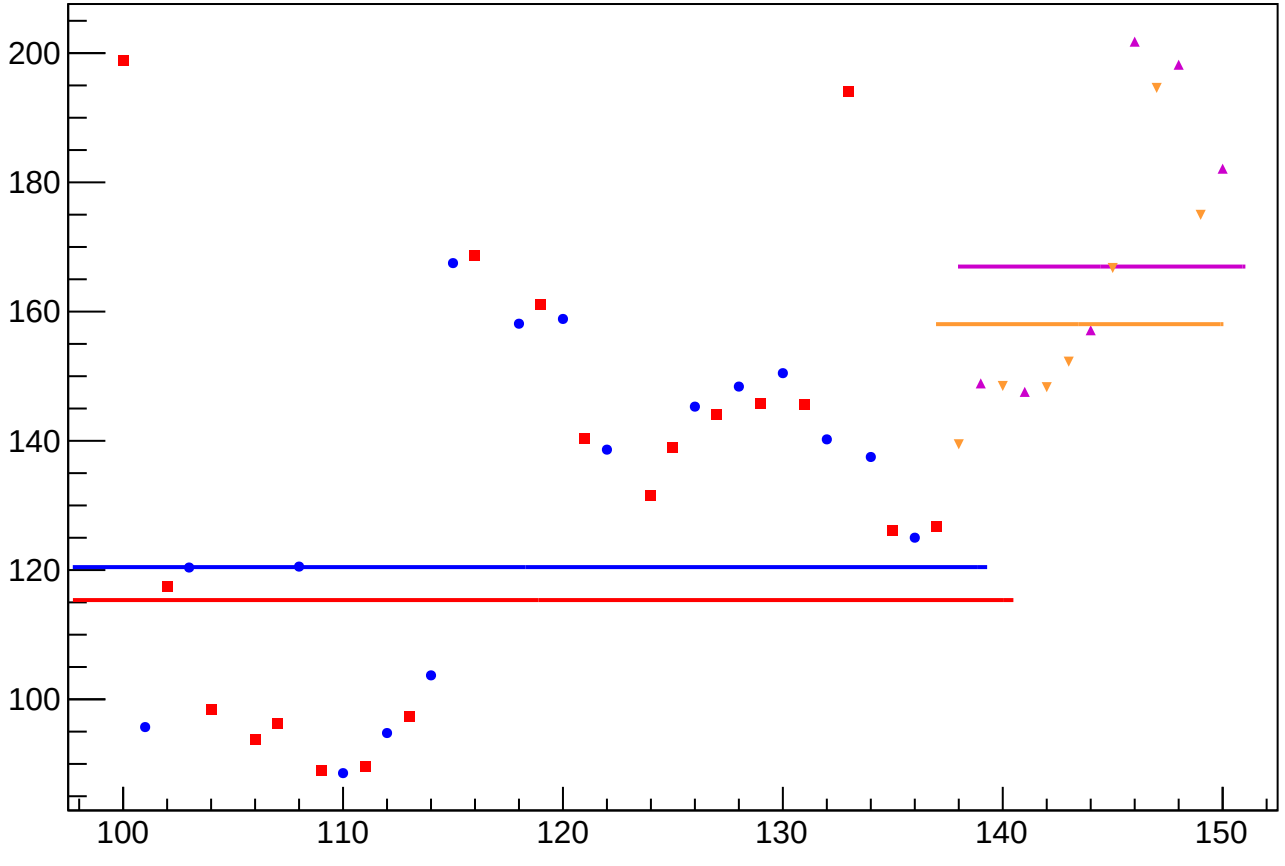
Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 83.062+/-38.935 $\chi^2$/NDF:48.4/21

Out: 63.976+/-36.815 $\chi^2$/NDF:28.9/25

All: 72.985+/-26.750 $\chi^2$/NDF: 77.4/47

# dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530331.6/15

Left Out: 158.056+/-0.049 $\chi^2$/NDF:118931.6/6

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767236.0/18

Left In: 166.970+/-0.052 $\chi^2$/NDF:169339.4/5

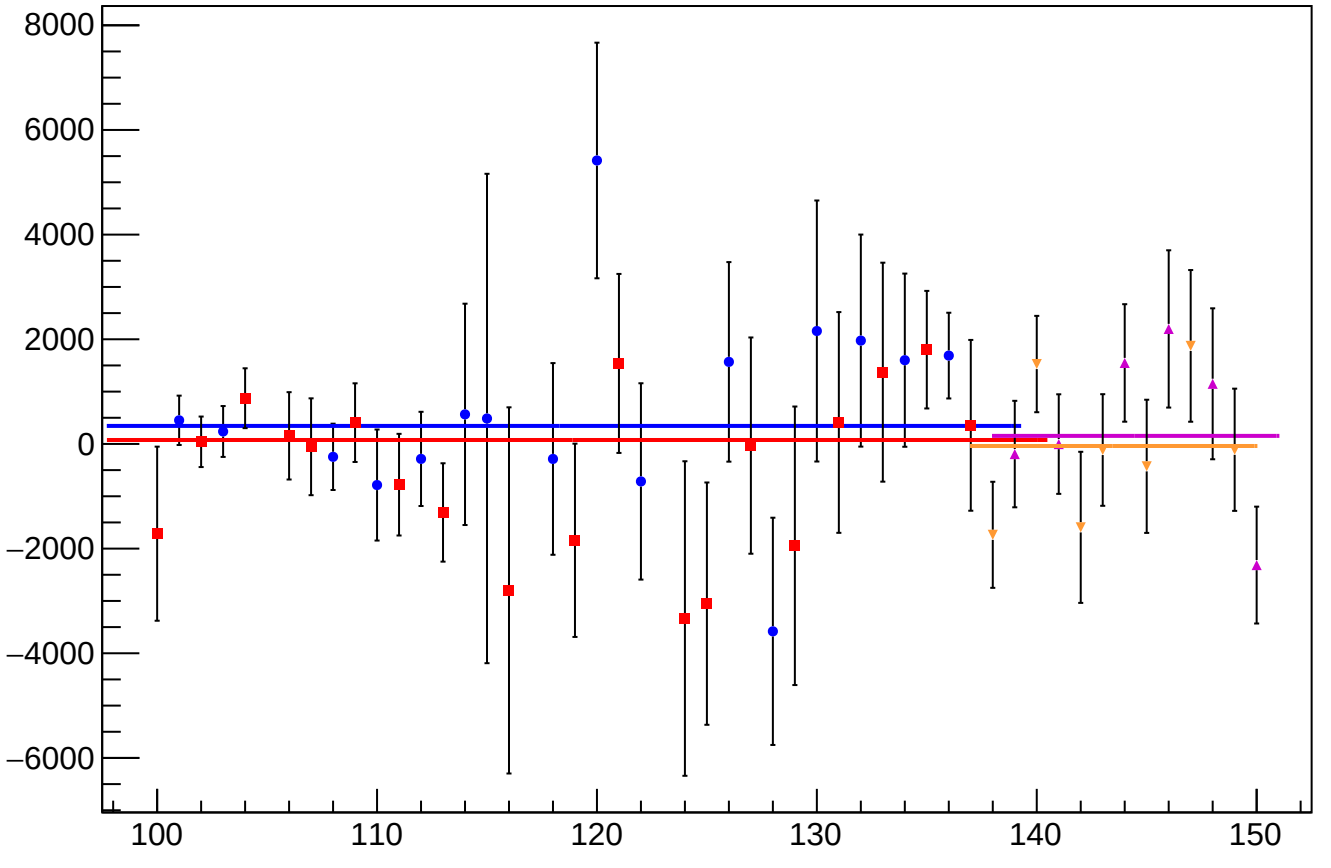
Left: 162.224+/-0.036 $\chi^2$/NDF: 303942.0/12

Right: 117.774+/-0.022 $\chi^2$/NDF: 1310562.3/34

In: 133.514+/-0.028 $\chi^2$/NDF:1275943.8/21

Out: 127.561+/-0.026 $\chi^2$/NDF:1435367.2/25

All: 130.371+/-0.019 $\chi^2$/NDF: 2735995.5/47




Right In: 344.437+/-241.532 $\chi^2$/NDF: 16.2/15

Left Out: -39.181+/-432.750 $\chi^2$/NDF:8.7/6

Right Out: 75.434+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: 154.084+/-466.755 $\chi^2$/NDF:8.9/5

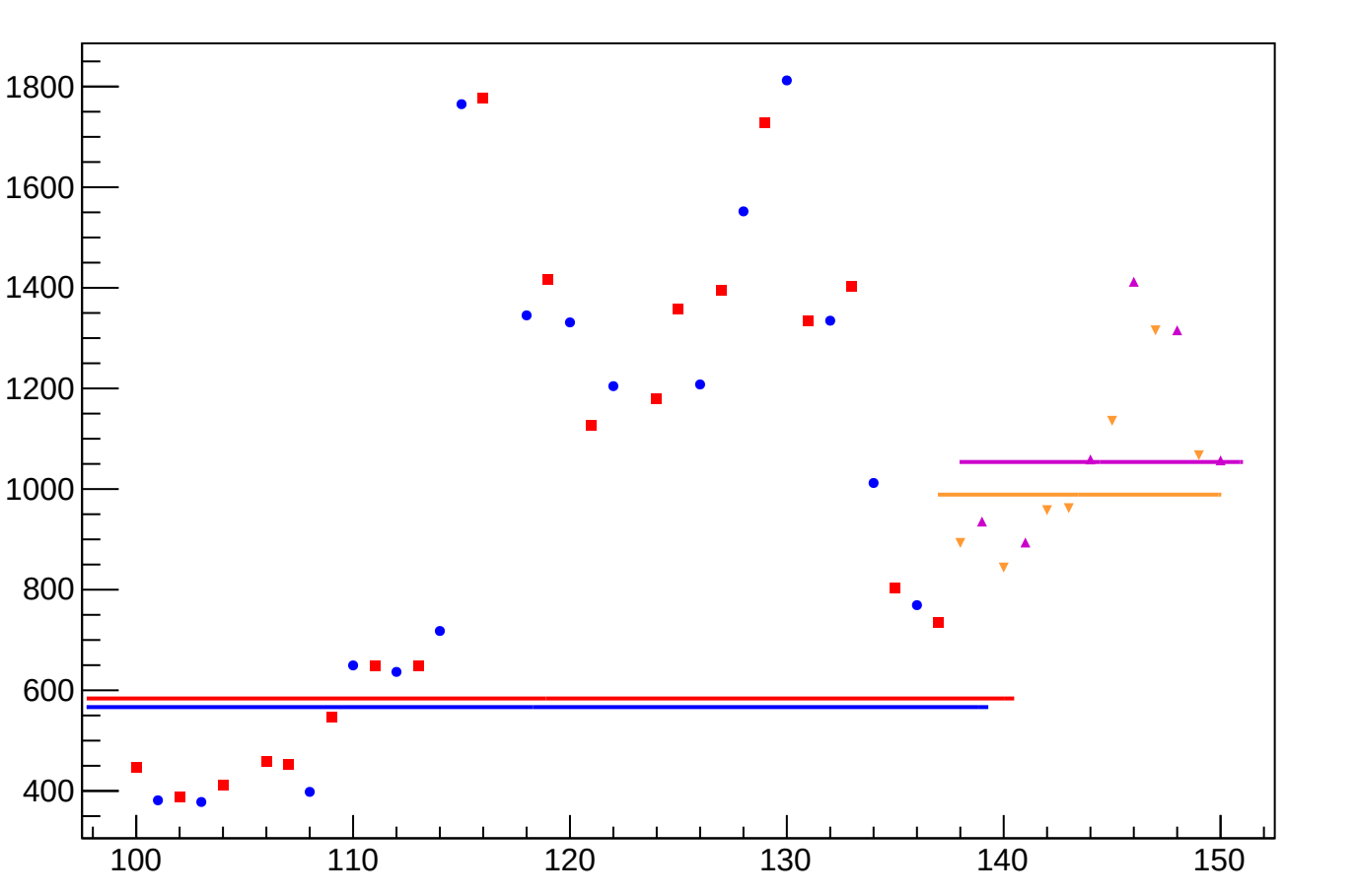
Left: 50.156+/-317.342 $\chi^2$/NDF: 17.7/12

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 304.231+/-214.513 $\chi^2$/NDF:25.3/21

Out: 48.392+/-210.204 $\chi^2$/NDF:24.0/25

All: 173.716+/-150.137 $\chi^2$/NDF: 50.0/47




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432440.2/15

Left Out: 988.970+/-0.306 $\chi^2$/NDF:206810.3/6

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.6/18

Left In: 1053.828+/-0.330 $\chi^2$/NDF:263258.9/5

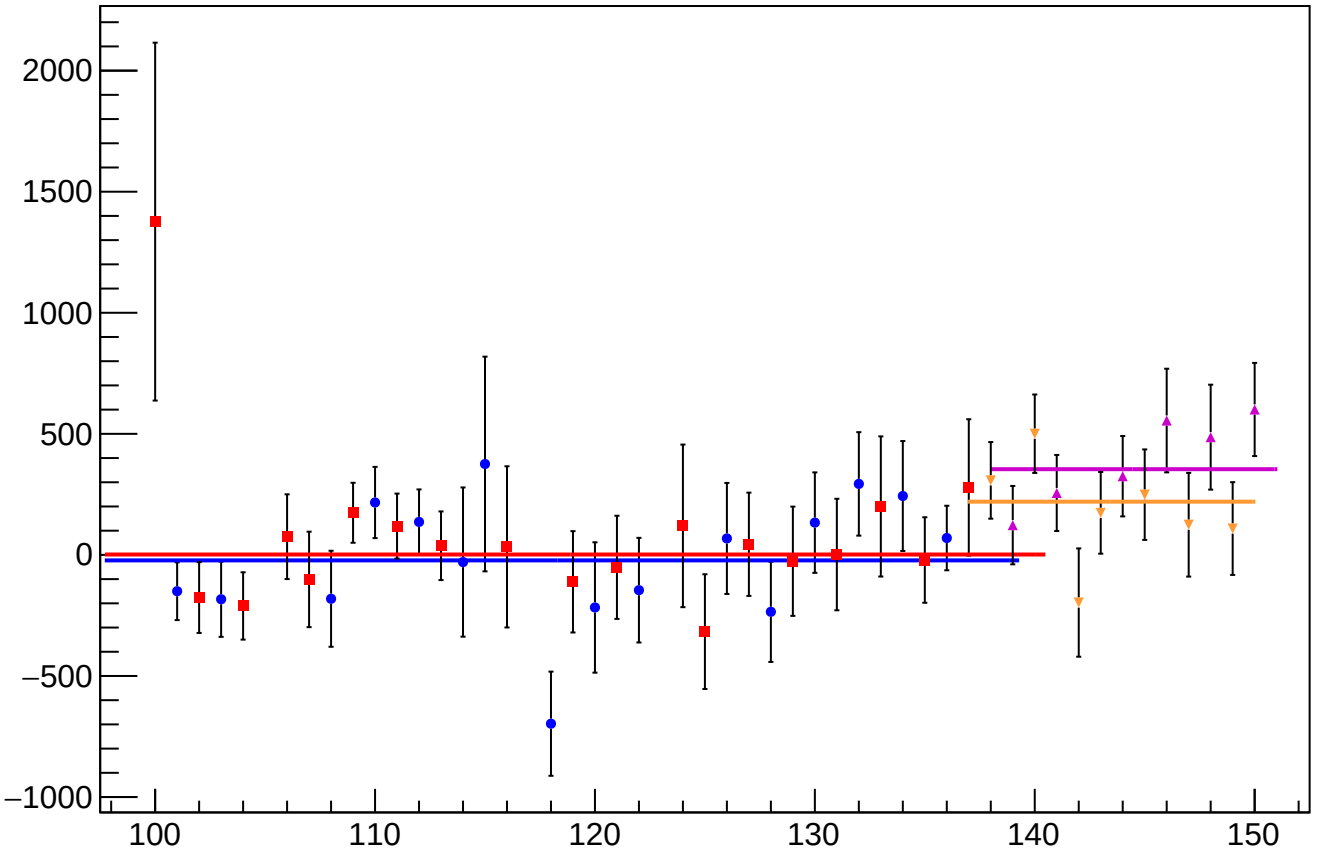
Left: 1018.951+/-0.224 $\chi^2$/NDF: 490835.7/12

Right: 575.236+/-0.121 $\chi^2$/NDF: 6545041.6/34

In: 669.513+/-0.152 $\chi^2$/NDF:5414670.3/21

Out: 679.392+/-0.149 $\chi^2$/NDF:4653903.2/25

All: 674.553+/-0.106 $\chi^2$/NDF: 10070737.4/47




Right In: -22.680+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 219.834+/-68.860 $\chi^2$/NDF:7.4/6

Right Out: 1.601+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 354.017+/-73.489 $\chi^2$/NDF:5.4/5

Left: 282.567+/-50.248 $\chi^2$/NDF: 14.5/12

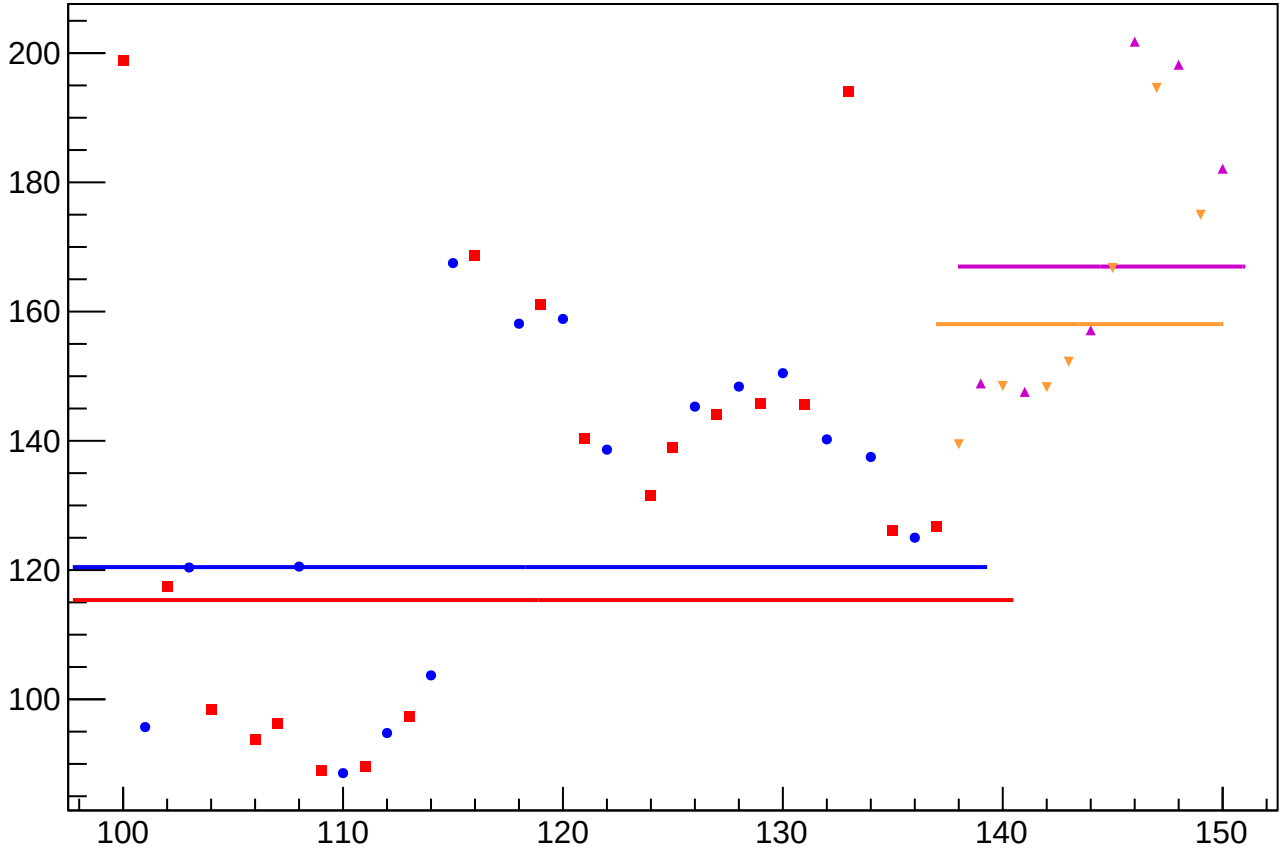
Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 83.060+/-38.935 $\chi^2$/NDF:48.4/21

Out: 63.978+/-36.815 $\chi^2$/NDF:28.9/25

All: 72.985+/-26.750 $\chi^2$/NDF: 77.4/47

# eigen_dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530335.0/15

Left Out: 158.056+/-0.049 $\chi^2$/NDF:118930.4/6

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767234.8/18

Left In: 166.970+/-0.052 $\chi^2$/NDF:169339.6/5

Left: 162.223+/-0.036 $\chi^2$/NDF: 303941.2/12

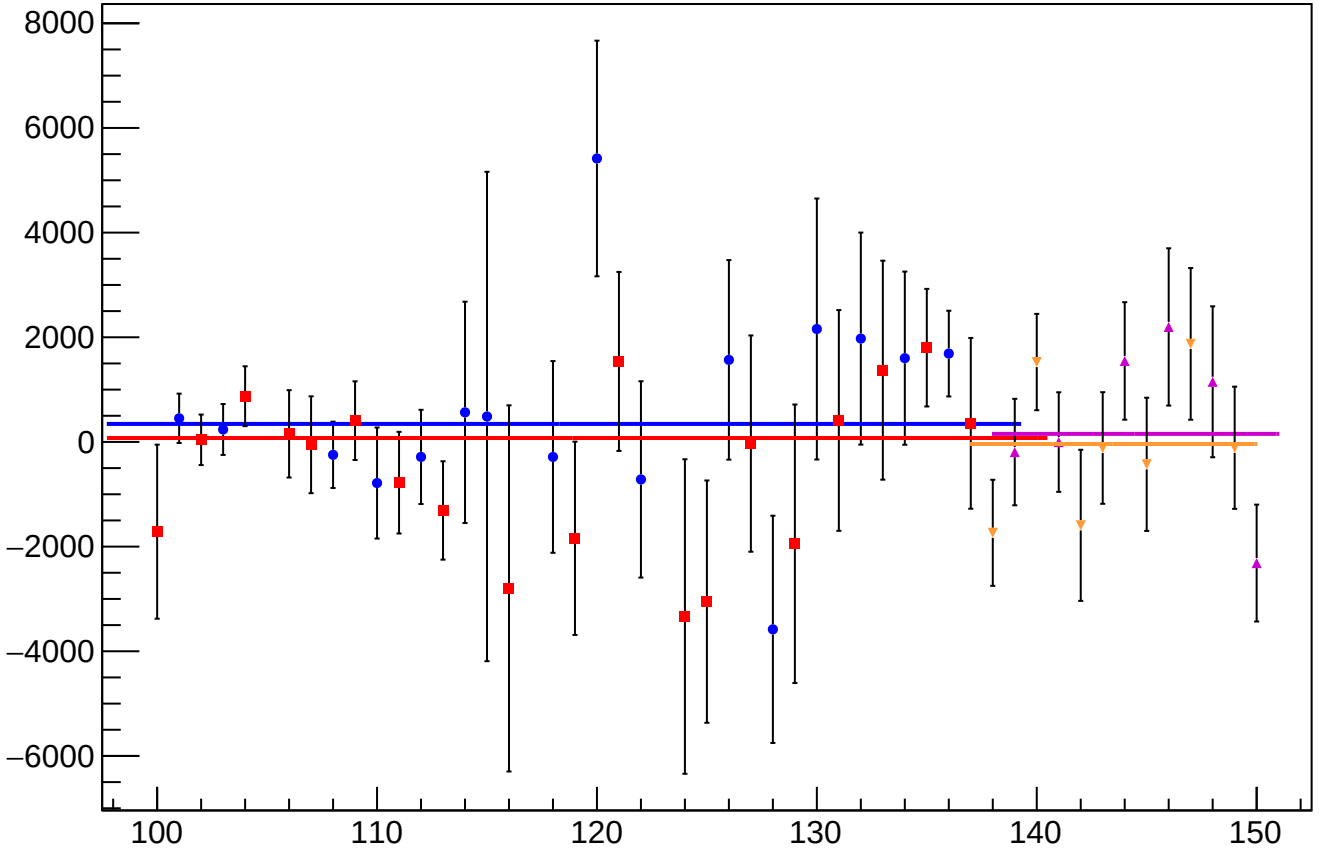
Right: 117.774+/-0.022 $\chi^2$/NDF: 1310564.2/34

In: 133.514+/-0.028 $\chi^2$/NDF:1275950.3/21

Out: 127.561+/-0.026 $\chi^2$/NDF:1435365.2/25

All: 130.371+/-0.019 $\chi^2$/NDF: 2735999.5/47

asym_sam6_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 344.436+/-241.531 $\chi^2$/NDF: 16.2/15

Left Out: -39.176+/-432.750 $\chi^2$/NDF:8.7/6

Right Out: 75.435+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: 154.083+/-466.755 $\chi^2$/NDF:8.9/5

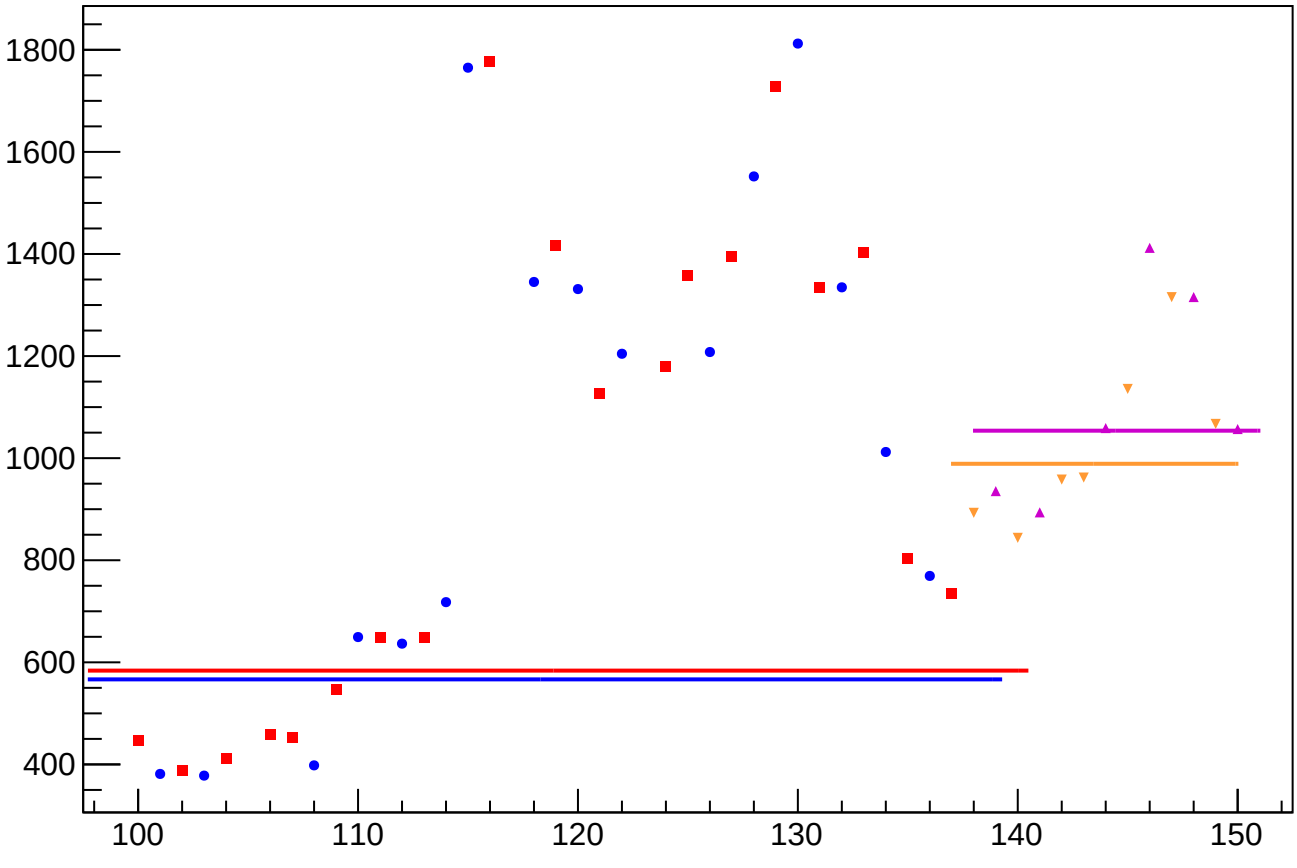
Left: 50.158+/-317.342 $\chi^2$/NDF: 17.7/12

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 304.230+/-214.512 $\chi^2$/NDF:25.3/21

Out: 48.394+/-210.204 $\chi^2$/NDF:24.0/25

All: 173.717+/-150.137 $\chi^2$/NDF: 50.0/47




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432444.7/15

Left Out: 988.969+/-0.306 $\chi^2$/NDF:206810.4/6

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.8/18

Left In: 1053.827+/-0.330 $\chi^2$/NDF:263259.4/5

Left: 1018.950+/-0.224 $\chi^2$/NDF: 490836.6/12

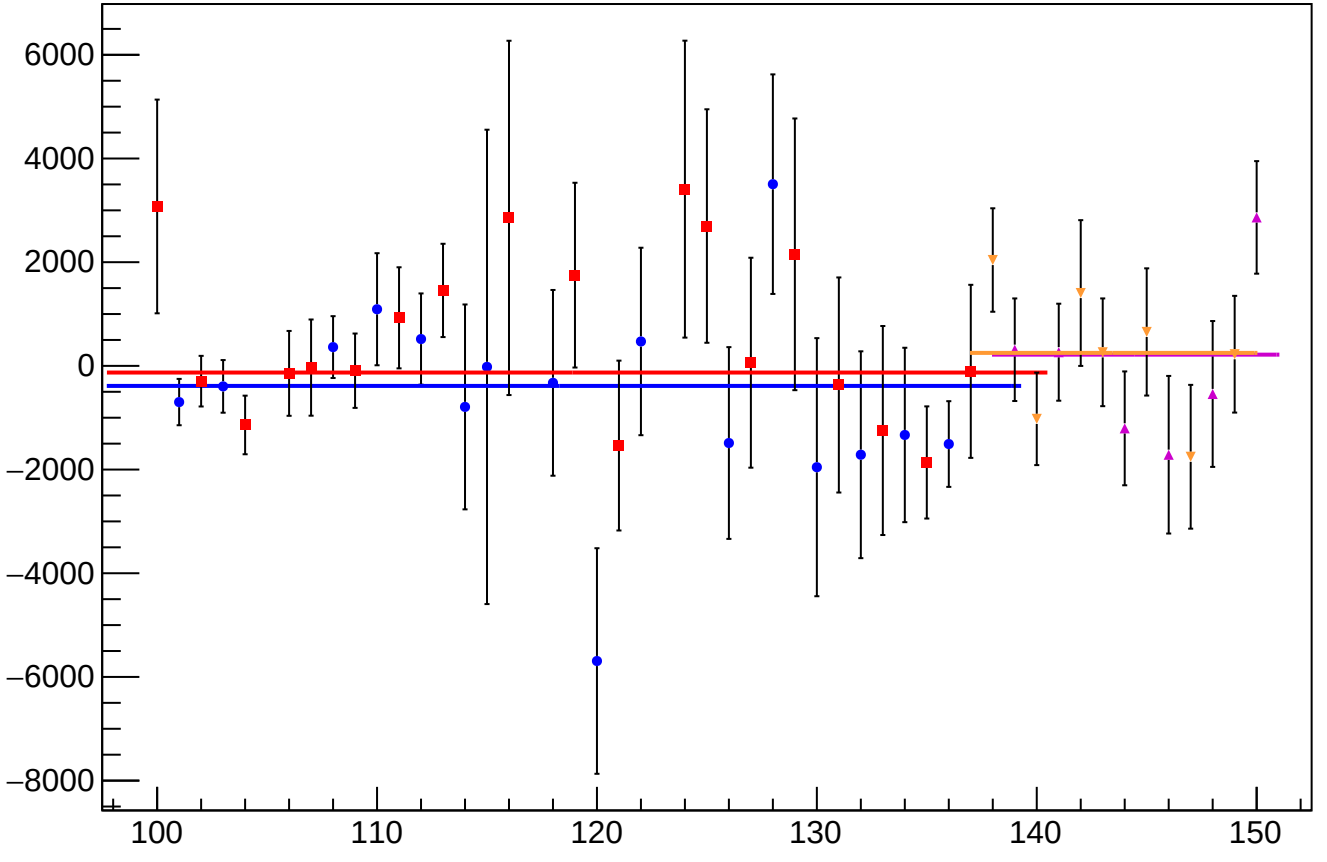
Right: 575.236+/-0.121 $\chi^2$/NDF: 6545046.5/34

In: 669.512+/-0.152 $\chi^2$/NDF:5414677.3/21

Out: 679.392+/-0.149 $\chi^2$/NDF:4653902.1/25

All: 674.552+/-0.106 $\chi^2$/NDF: 10070743.5/47

# asym_sam6_mean vs Slug, Sign Corrected




Right In: -386.522+/-237.525 $\chi^2$/NDF: 17.9/15

Left Out: 250.527+/-420.086 $\chi^2$/NDF:8.1/6

Right Out: -128.583+/-238.241 $\chi^2$/NDF: 19.4/18

Left In: 216.546+/-457.400 $\chi^2$/NDF:9.5/5

Left: 234.979+/-309.397 $\chi^2$/NDF: 17.7/12

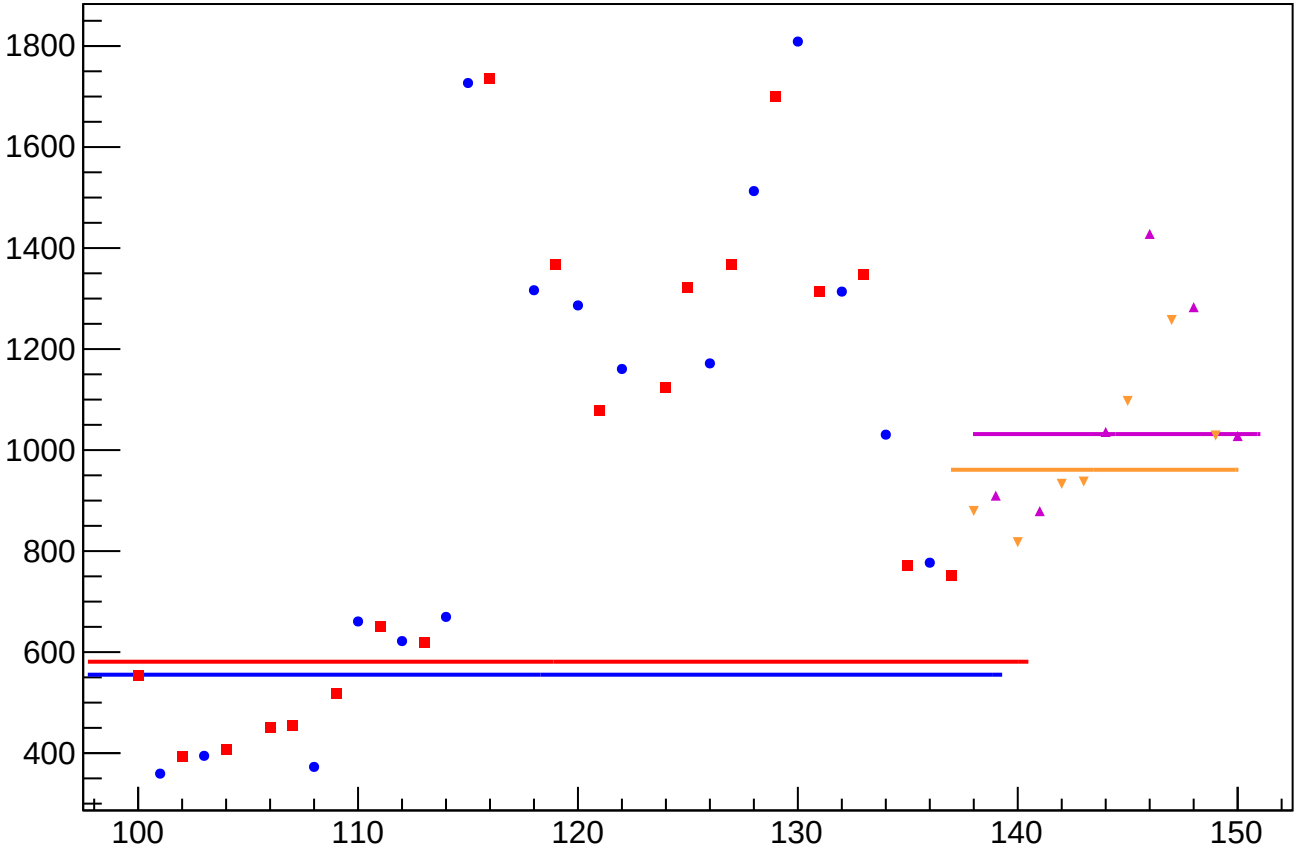
Right: -257.941+/-168.208 $\chi^2$/NDF: 37.9/34

In: -258.436+/-210.797 $\chi^2$/NDF:28.9/21

Out: -36.324+/-207.234 $\chi^2$/NDF:28.1/25

All: -145.487+/-147.780 $\chi^2$/NDF: 57.5/47

# asym_sam6_rms vs Slug, Sign Corrected




Right In: 555.292+/-0.168 $\chi^2$/NDF: 3482531.0/15

Left Out: 961.056+/-0.297 $\chi^2$/NDF:190275.4/6

Right Out: 580.996+/-0.168 $\chi^2$/NDF: 2983560.8/18

Left In: 1031.712+/-0.323 $\chi^2$/NDF:283363.5/5

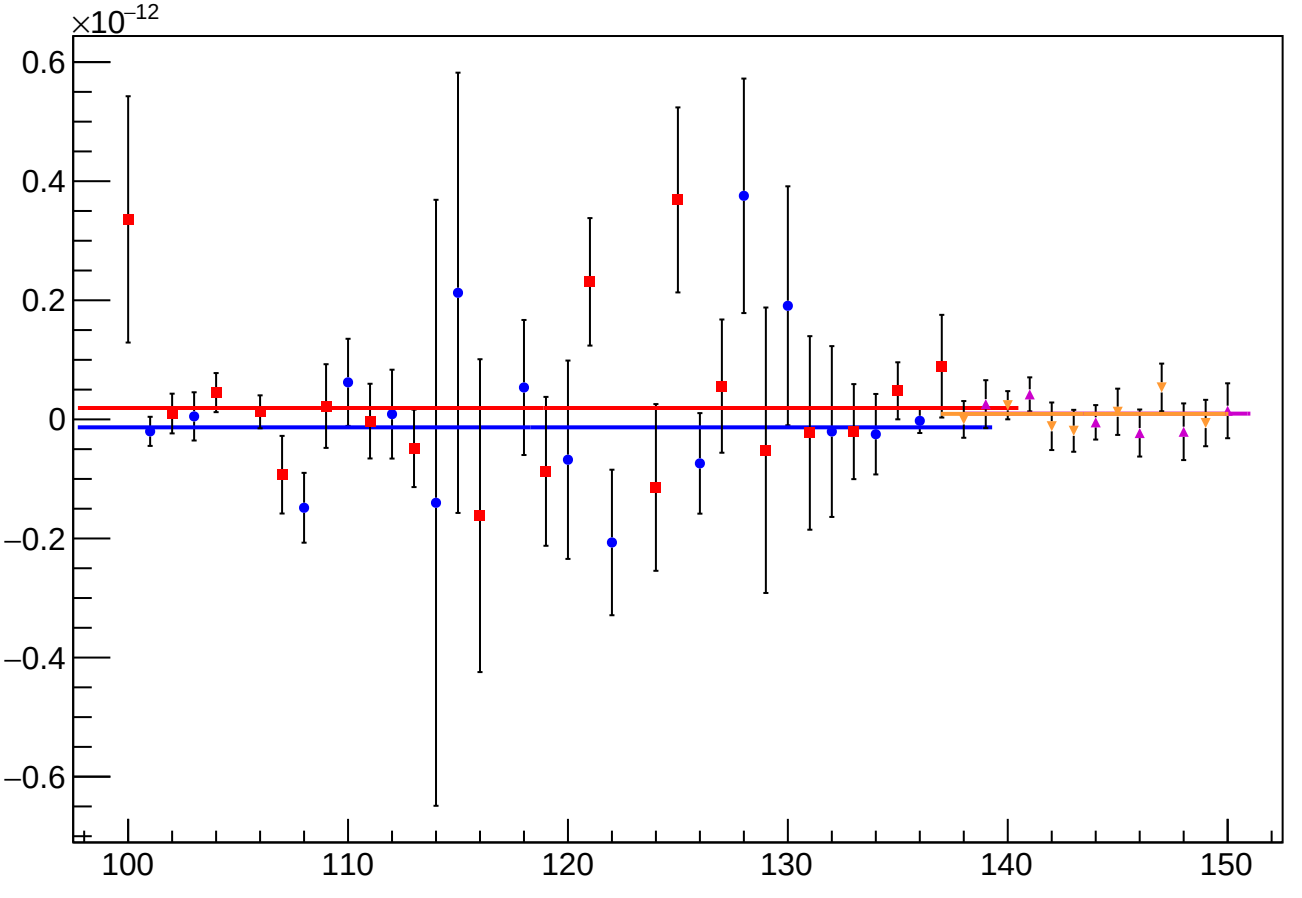
Left: 993.385+/-0.219 $\chi^2$/NDF: 499526.4/12

Right: 568.105+/-0.119 $\chi^2$/NDF: 6477767.0/34

In: 656.479+/-0.149 $\chi^2$/NDF:5474839.4/21

Out: 673.486+/-0.147 $\chi^2$/NDF:4412484.4/25

All: 665.128+/-0.104 $\chi^2$/NDF: 9893944.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.8/5

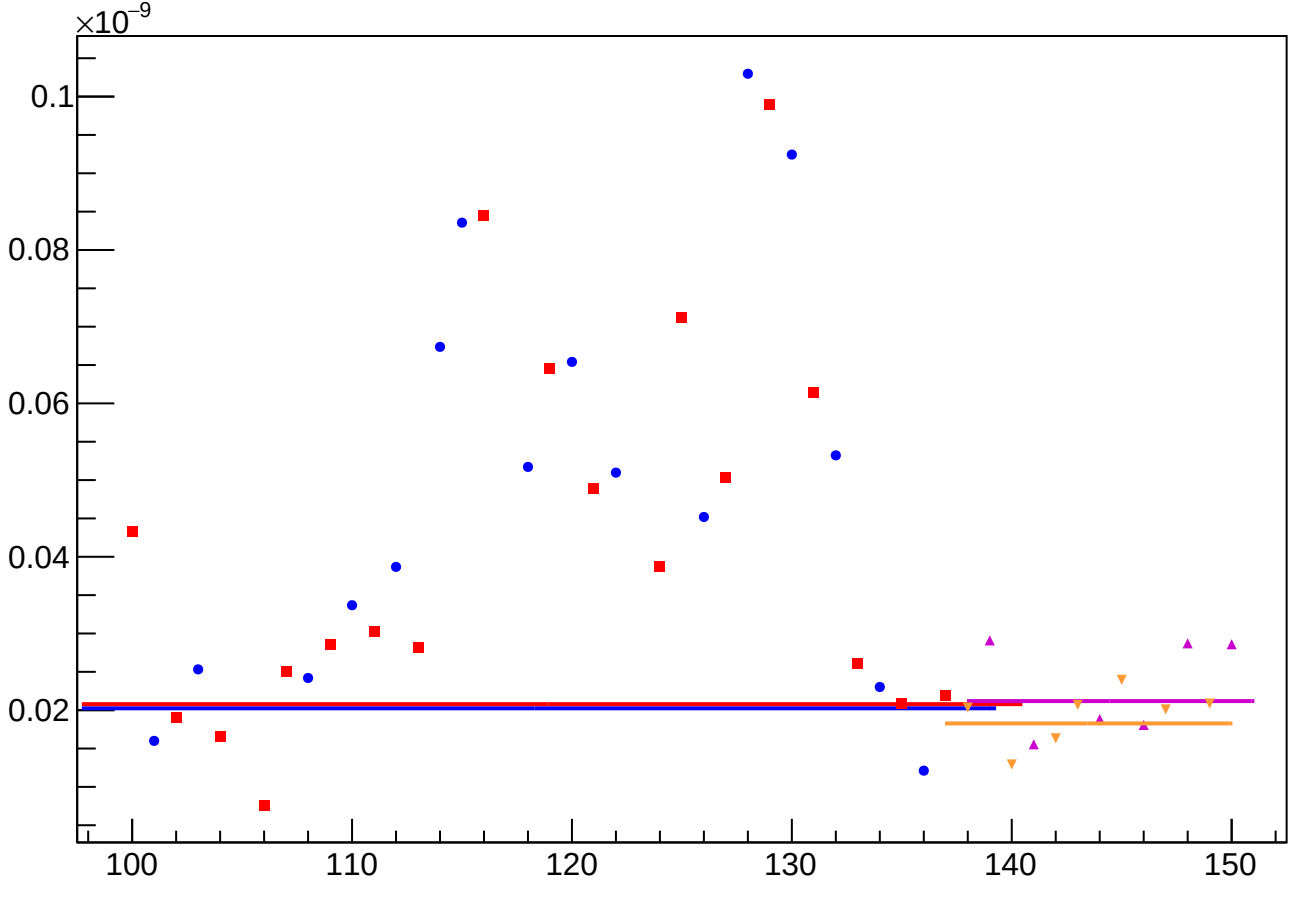
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2004678.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:181042.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1855885.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:282479.6/5

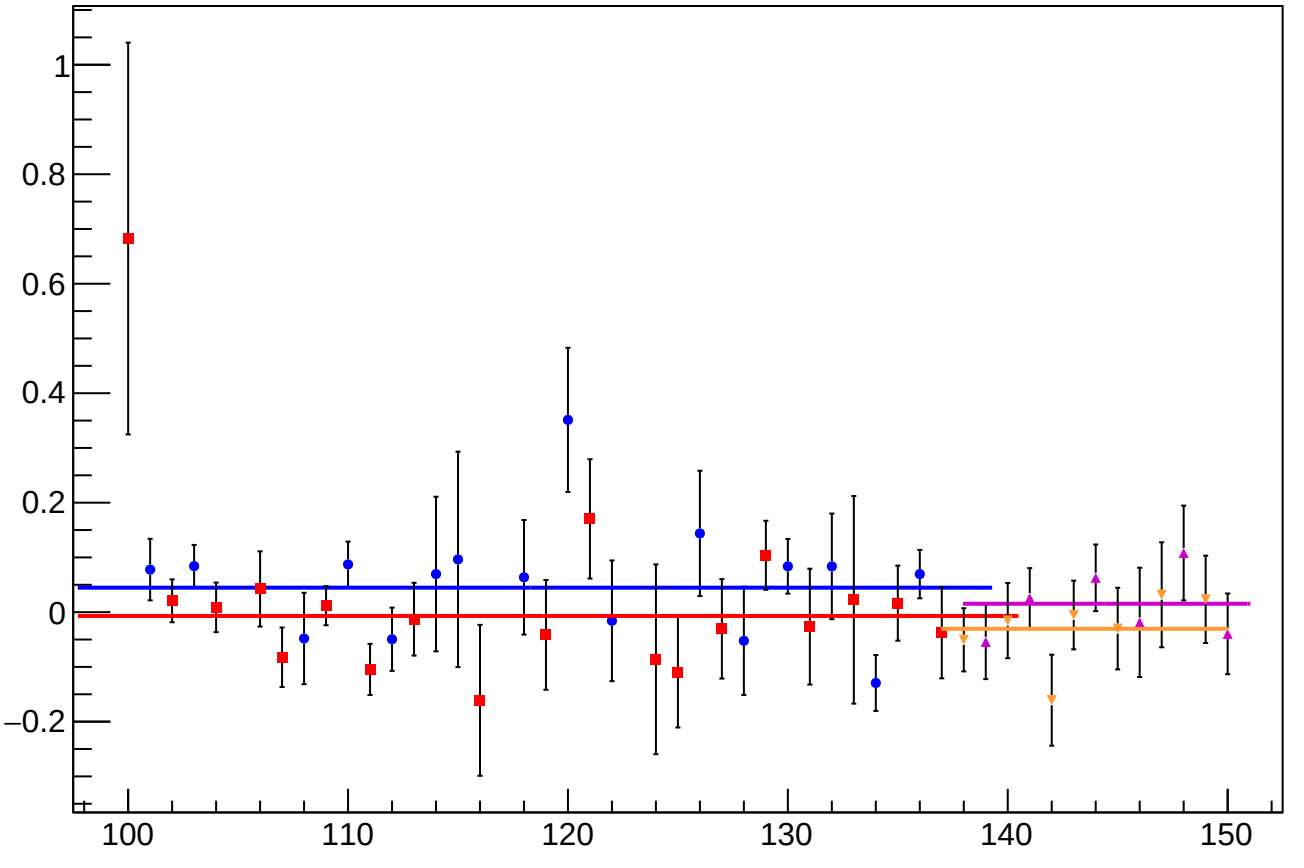
Left: 0.000+/-0.000 $\chi^2$/NDF: 508414.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3862189.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2291770.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2072729.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4381291.5/47




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.030+/-0.027 $\chi^2$/NDF:3.7/6

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.015+/-0.028 $\chi^2$/NDF:3.5/5

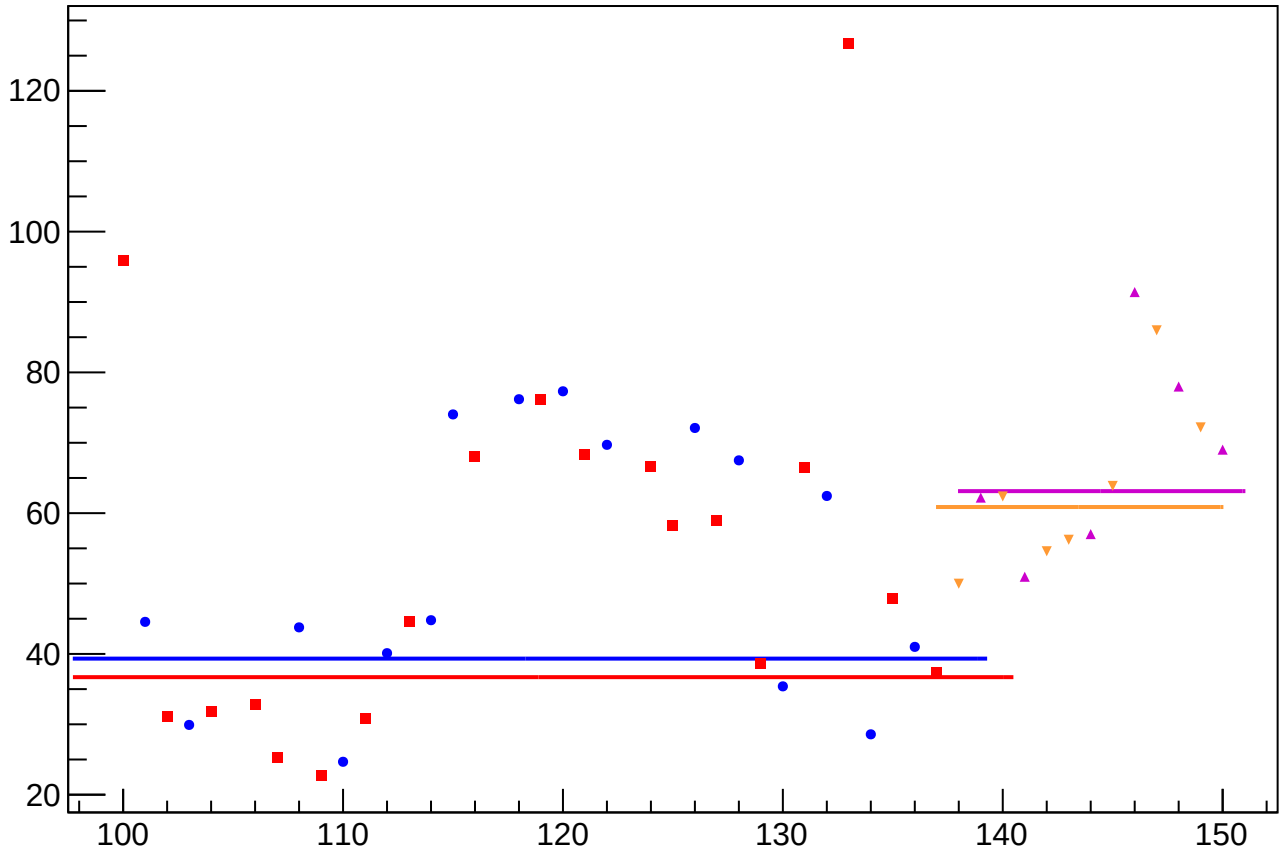
Left: -0.009+/-0.020 $\chi^2$/NDF: 8.5/12

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.038+/-0.014 $\chi^2$/NDF:30.9/21

Out: -0.012+/-0.013 $\chi^2$/NDF:24.4/25

All: 0.011+/-0.010 $\chi^2$/NDF: 62.2/47




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 60.872+/-0.019 $\chi^2$/NDF:275232.4/6

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 63.130+/-0.020 $\chi^2$/NDF:351403.4/5

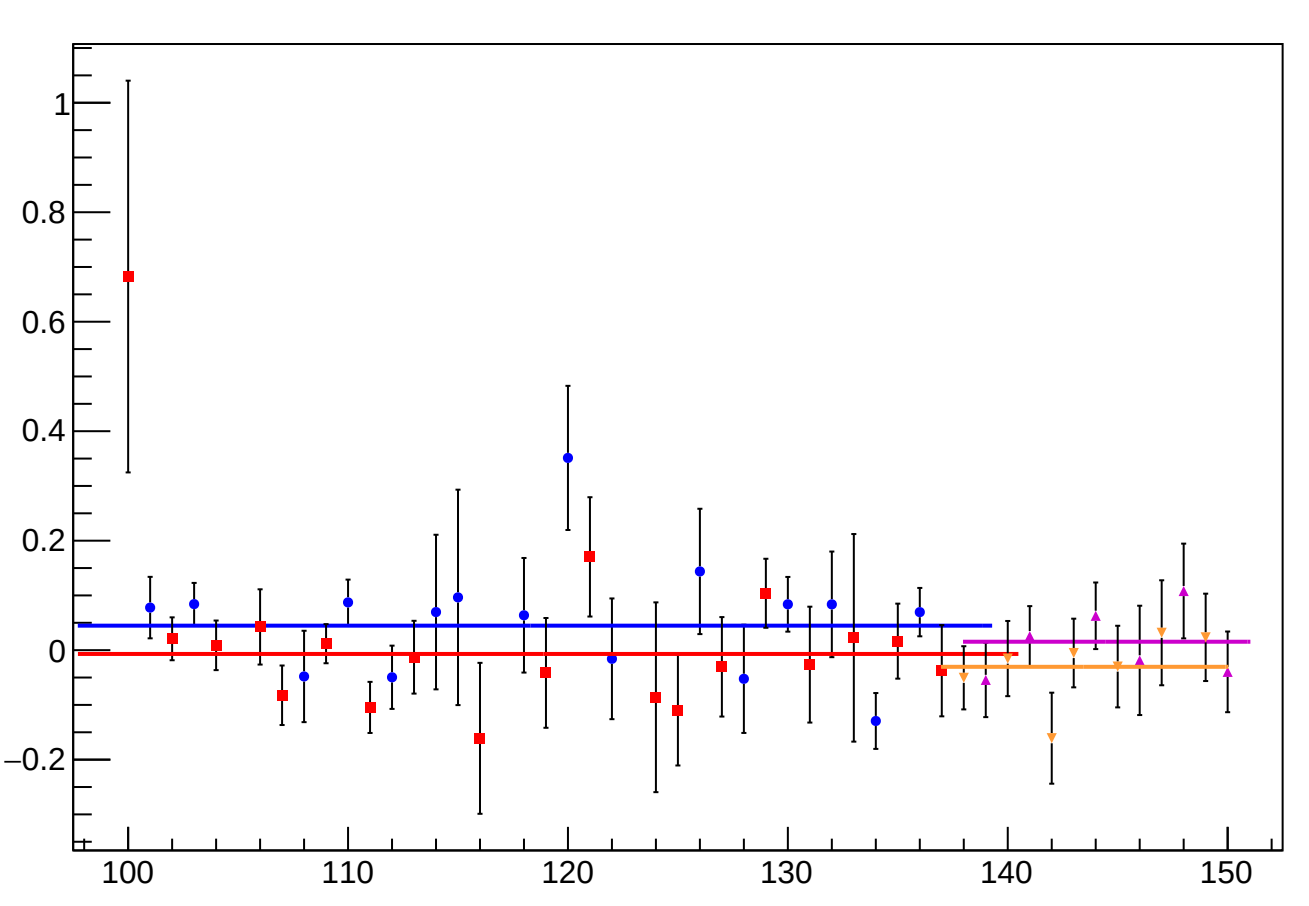
Left: 61.949+/-0.014 $\chi^2$/NDF: 633235.9/12

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 45.073+/-0.010 $\chi^2$/NDF:2981749.5/21

Out: 42.417+/-0.009 $\chi^2$/NDF:3582540.7/25

All: 43.671+/-0.007 $\chi^2$/NDF: 6602493.8/47




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.030+/-0.027 $\chi^2$/NDF:3.7/6

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.015+/-0.028 $\chi^2$/NDF:3.5/5

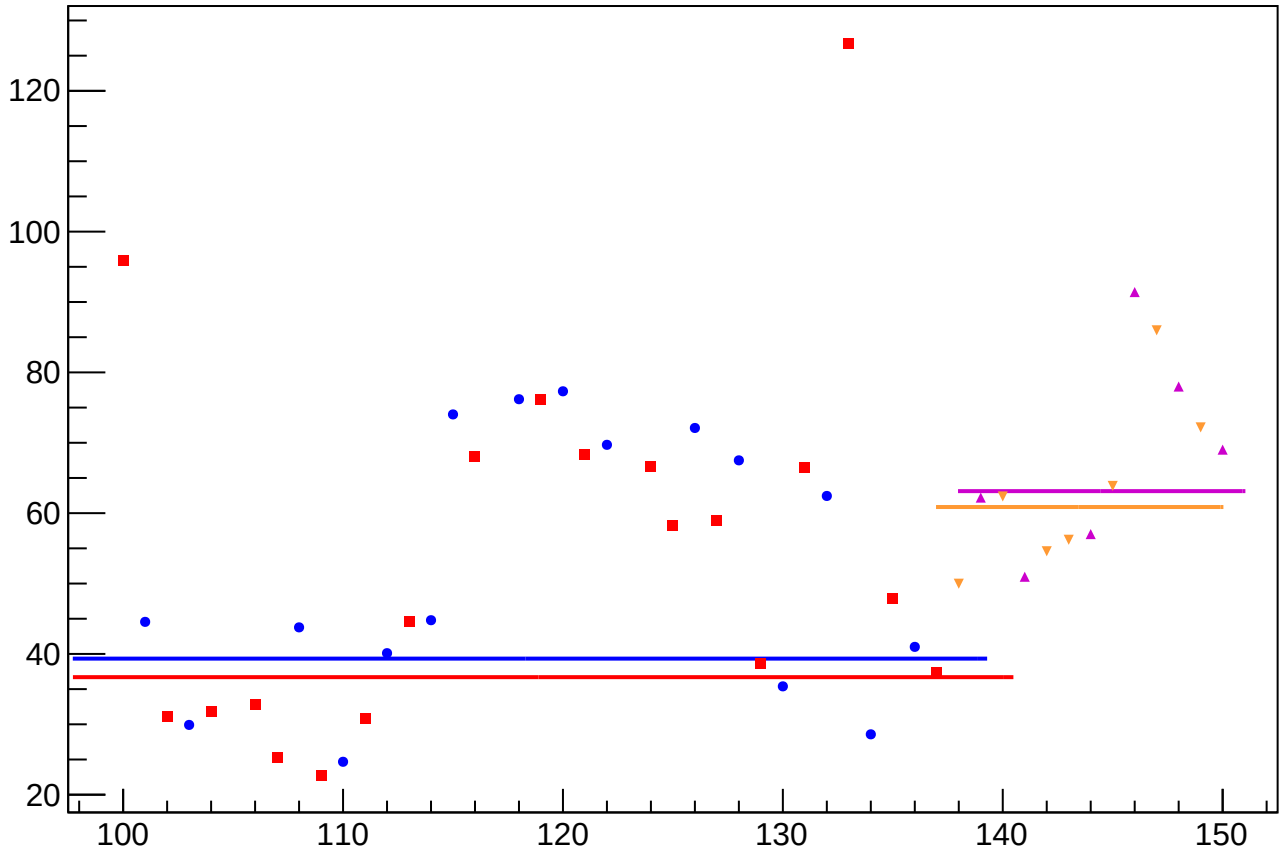
Left: -0.009+/-0.020 $\chi^2$/NDF: 8.5/12

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.038+/-0.014 $\chi^2$/NDF:30.9/21

Out: -0.012+/-0.013 $\chi^2$/NDF:24.4/25

All: 0.011+/-0.010 $\chi^2$/NDF: 62.2/47




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 60.872+/-0.019 $\chi^2$/NDF:275232.4/6

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 63.130+/-0.020 $\chi^2$/NDF:351403.4/5

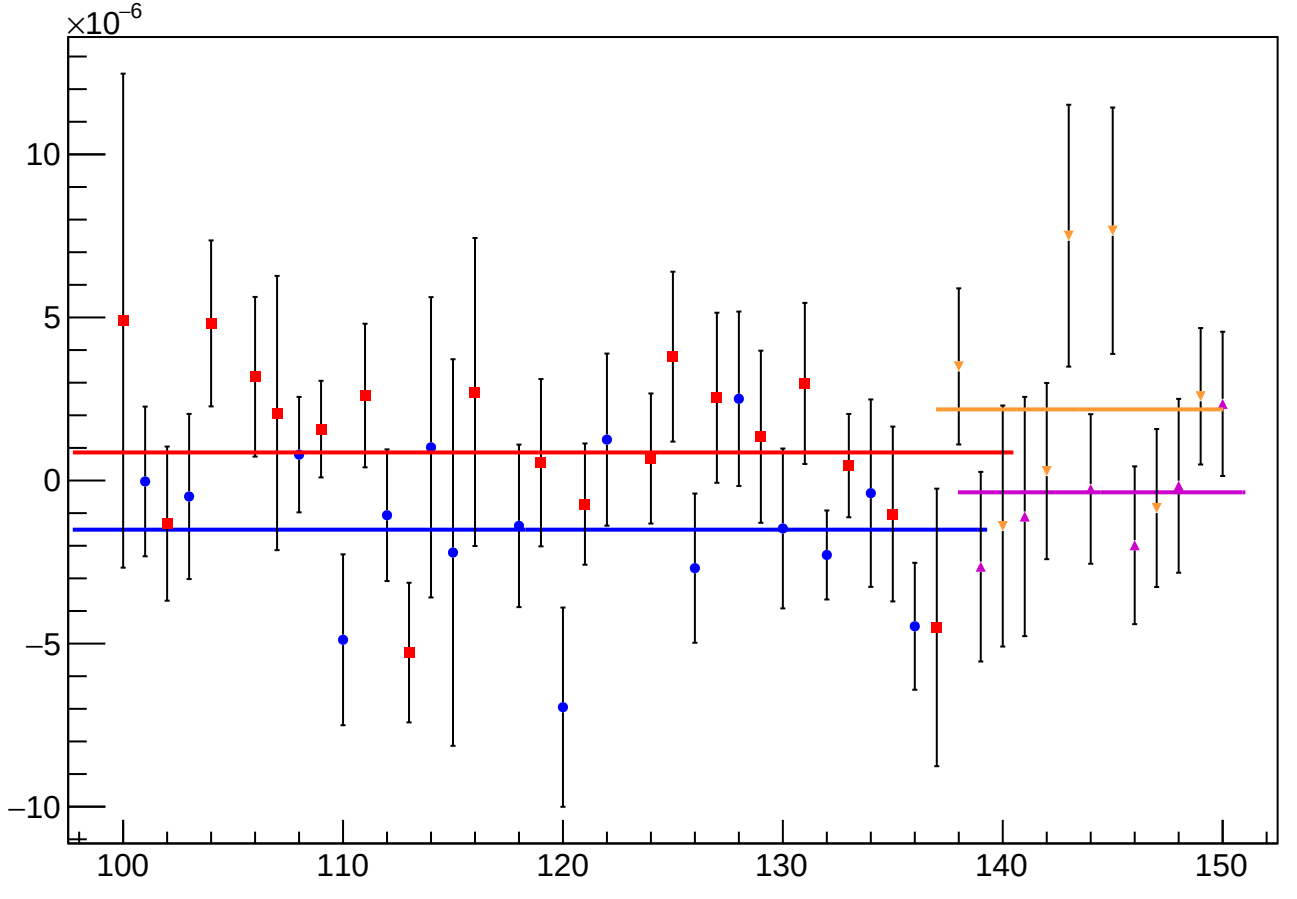
Left: 61.949+/-0.014 $\chi^2$/NDF: 633235.9/12

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 45.073+/-0.010 $\chi^2$/NDF:2981749.5/21

Out: 42.417+/-0.009 $\chi^2$/NDF:3582540.7/25

All: 43.671+/-0.007 $\chi^2$/NDF: 6602493.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.6/5

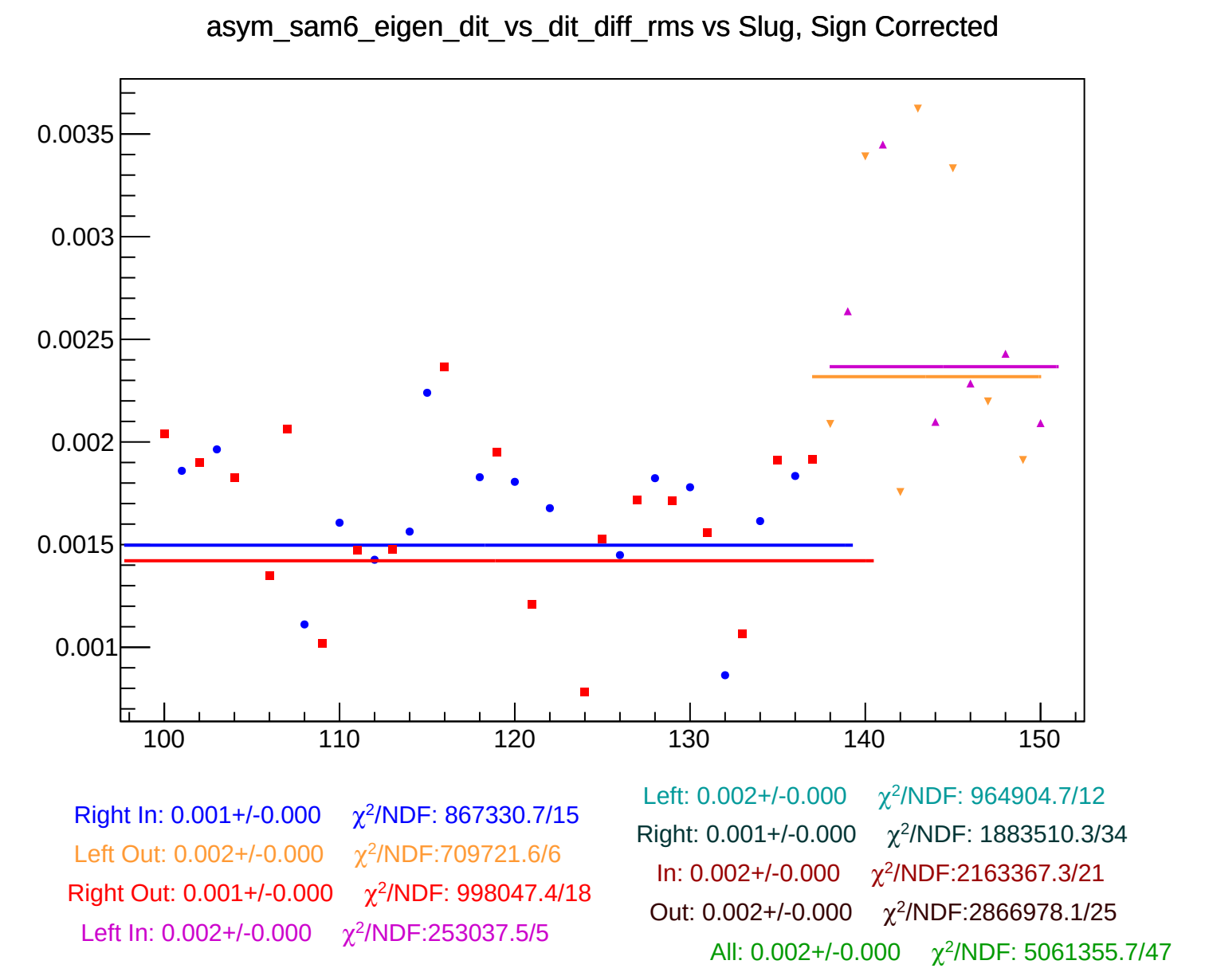
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.7/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.9/34

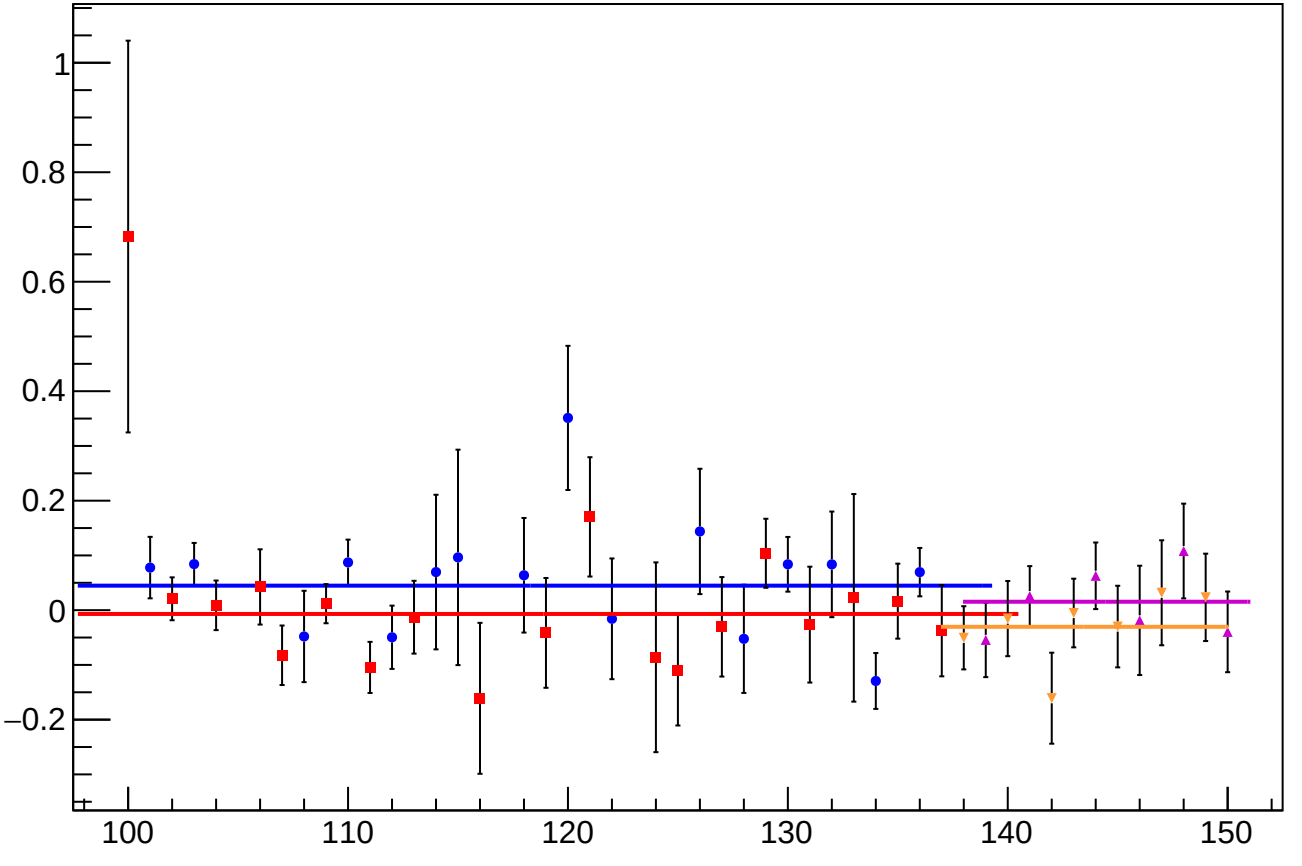
In: -0.000+/-0.000 $\chi^2$/NDF:17.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 56.5/47


asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0035
0.003
0.0025
0.002
0.0015
0.001
100
110
120
130
140
150
Right In: 0.001+/-0.000 χ²/NDF: 867330.7/15
Left Out: 0.002+/-0.000 χ²/NDF:709721.6/6
Right Out: 0.001+/-0.000 χ²/NDF: 998047.4/18
Left In: 0.002+/-0.000 χ²/NDF:253037.5/5
Left: 0.002+/-0.000 χ²/NDF: 964904.7/12
Right: 0.001+/-0.000 χ²/NDF: 1883510.3/34
In: 0.002+/-0.000 χ²/NDF:2163367.3/21
Out: 0.002+/-0.000 χ²/NDF:2866978.1/25
All: 0.002+/-0.000 χ²/NDF: 5061355.7/47

asym_sam6_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.030+/-0.027 $\chi^2$/NDF:3.7/6

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.015+/-0.028 $\chi^2$/NDF:3.5/5

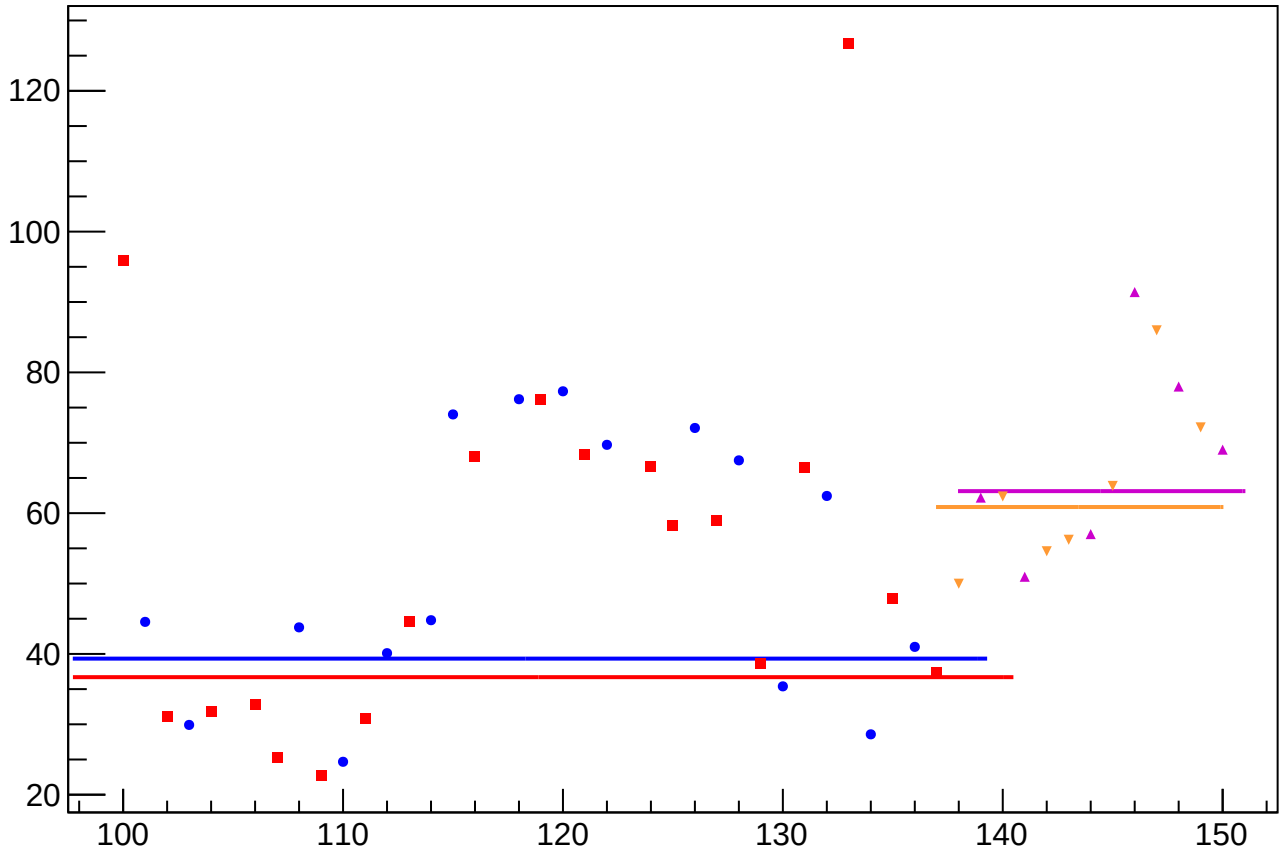
Left: -0.009+/-0.020 $\chi^2$/NDF: 8.5/12

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.038+/-0.014 $\chi^2$/NDF:30.9/21

Out: -0.012+/-0.013 $\chi^2$/NDF:24.4/25

All: 0.011+/-0.010 $\chi^2$/NDF: 62.2/47




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 60.871+/-0.019 $\chi^2$/NDF:275222.7/6

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 63.129+/-0.020 $\chi^2$/NDF:351413.6/5

Left: 61.948+/-0.014 $\chi^2$/NDF: 633236.3/12

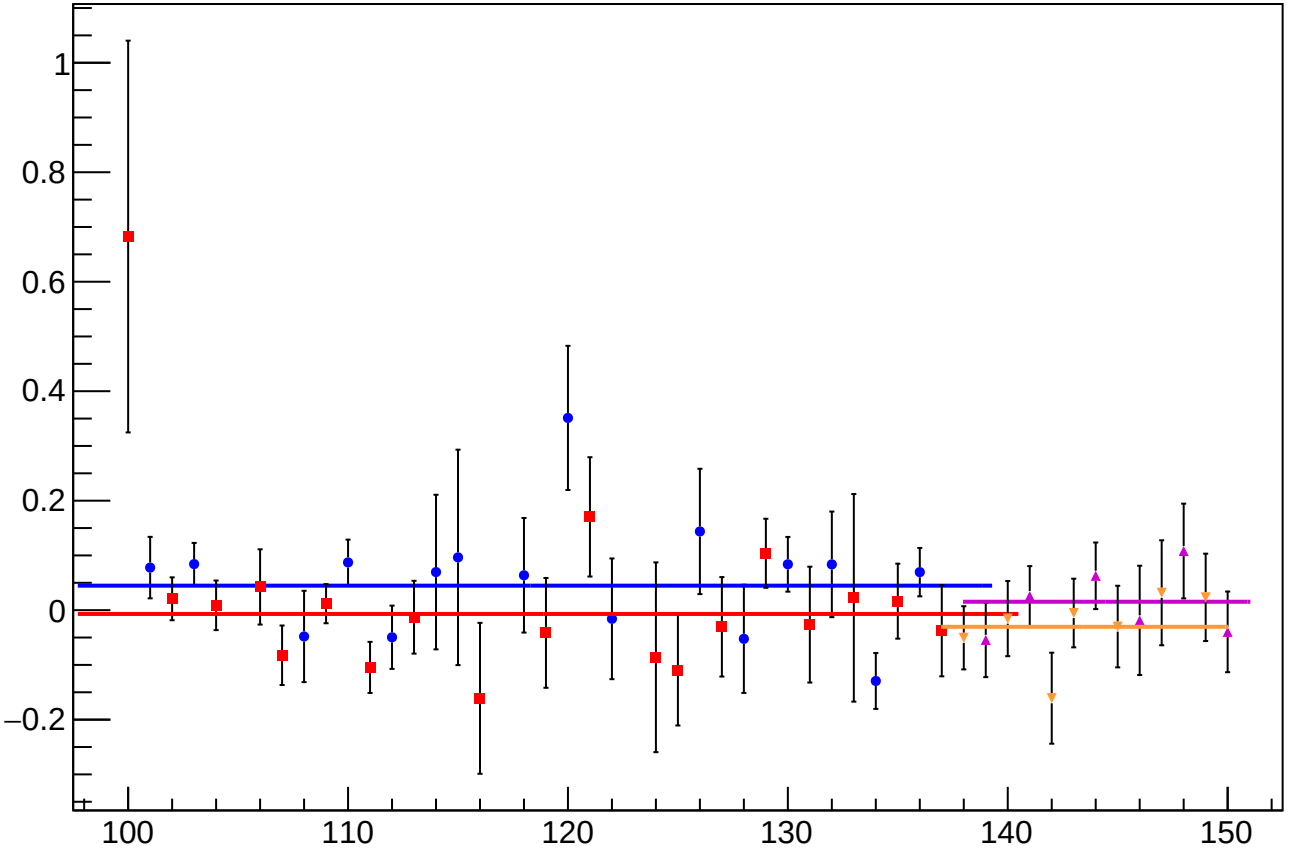
Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 45.072+/-0.010 $\chi^2$/NDF:2981788.6/21

Out: 42.417+/-0.009 $\chi^2$/NDF:3582508.5/25

All: 43.671+/-0.007 $\chi^2$/NDF: 6602493.7/47

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.030+/-0.027 $\chi^2$/NDF:3.7/6

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.015+/-0.028 $\chi^2$/NDF:3.5/5

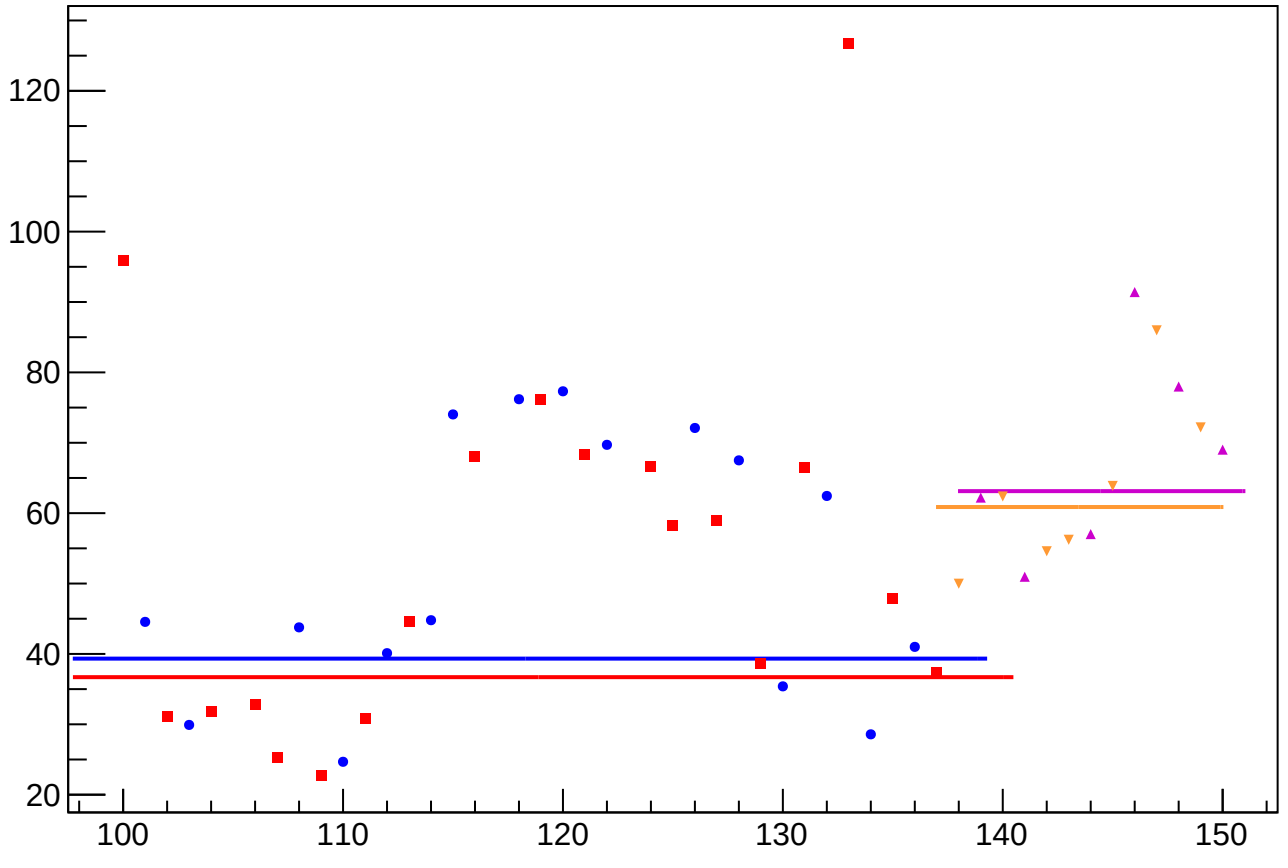
Left: -0.009+/-0.020 $\chi^2$/NDF: 8.5/12

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.038+/-0.014 $\chi^2$/NDF:30.9/21

Out: -0.012+/-0.013 $\chi^2$/NDF:24.4/25

All: 0.011+/-0.010 $\chi^2$/NDF: 62.2/47




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 60.871+/-0.019 $\chi^2$/NDF:275222.7/6

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 63.129+/-0.020 $\chi^2$/NDF:351413.6/5

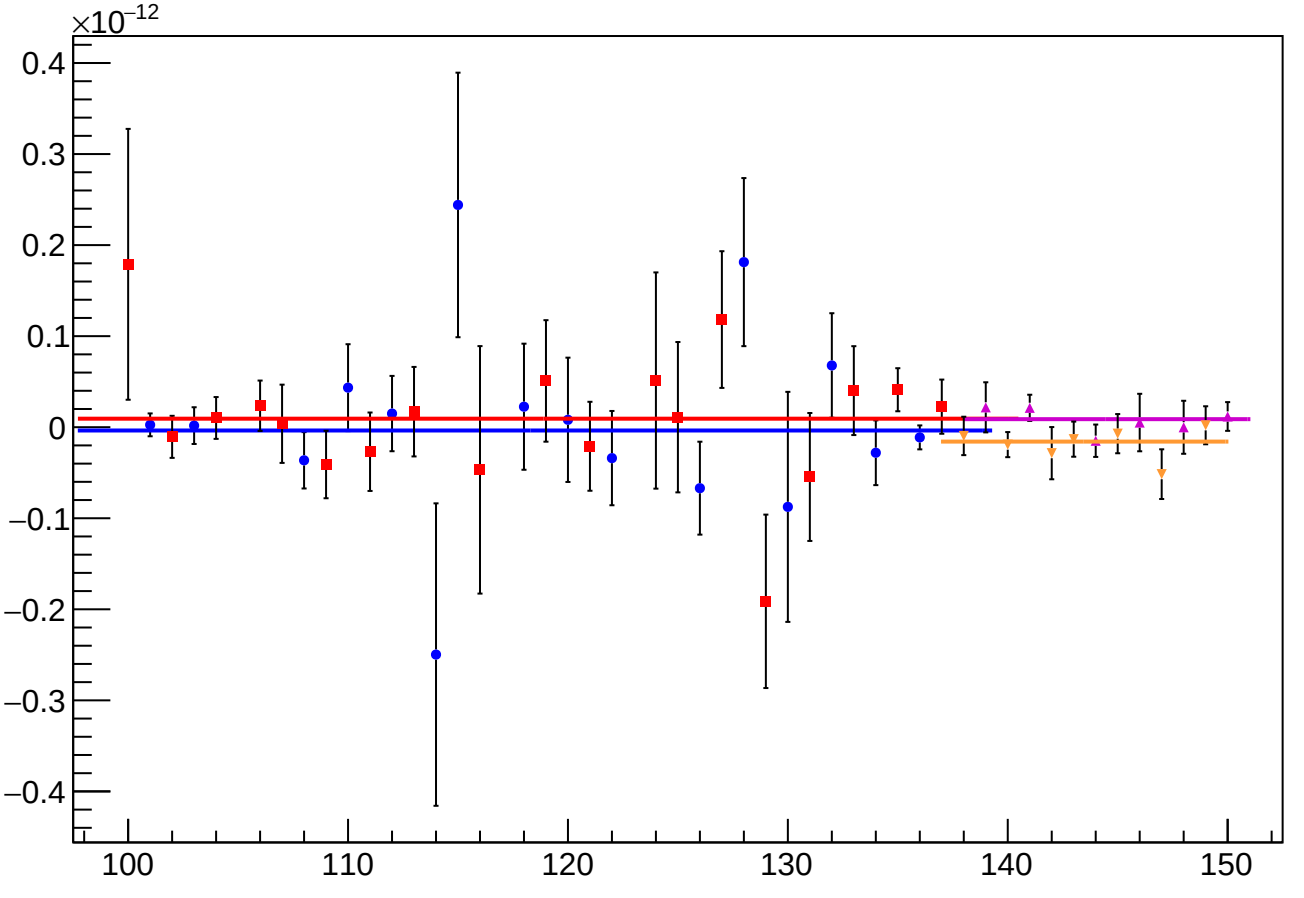
Left: 61.948+/-0.014 $\chi^2$/NDF: 633236.3/12

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 45.072+/-0.010 $\chi^2$/NDF:2981788.6/21

Out: 42.417+/-0.009 $\chi^2$/NDF:3582508.5/25

All: 43.671+/-0.007 $\chi^2$/NDF: 6602493.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/5

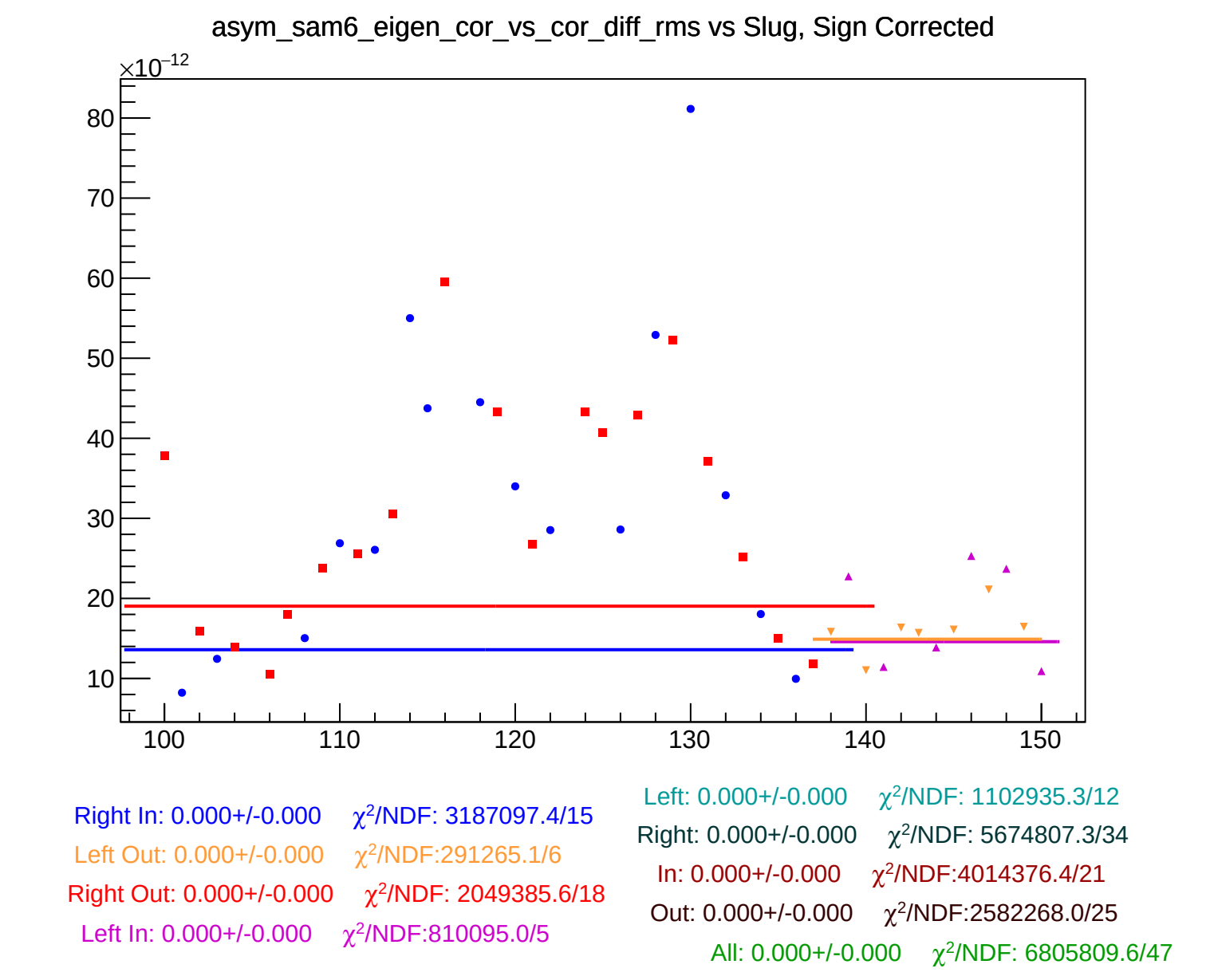
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.8/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

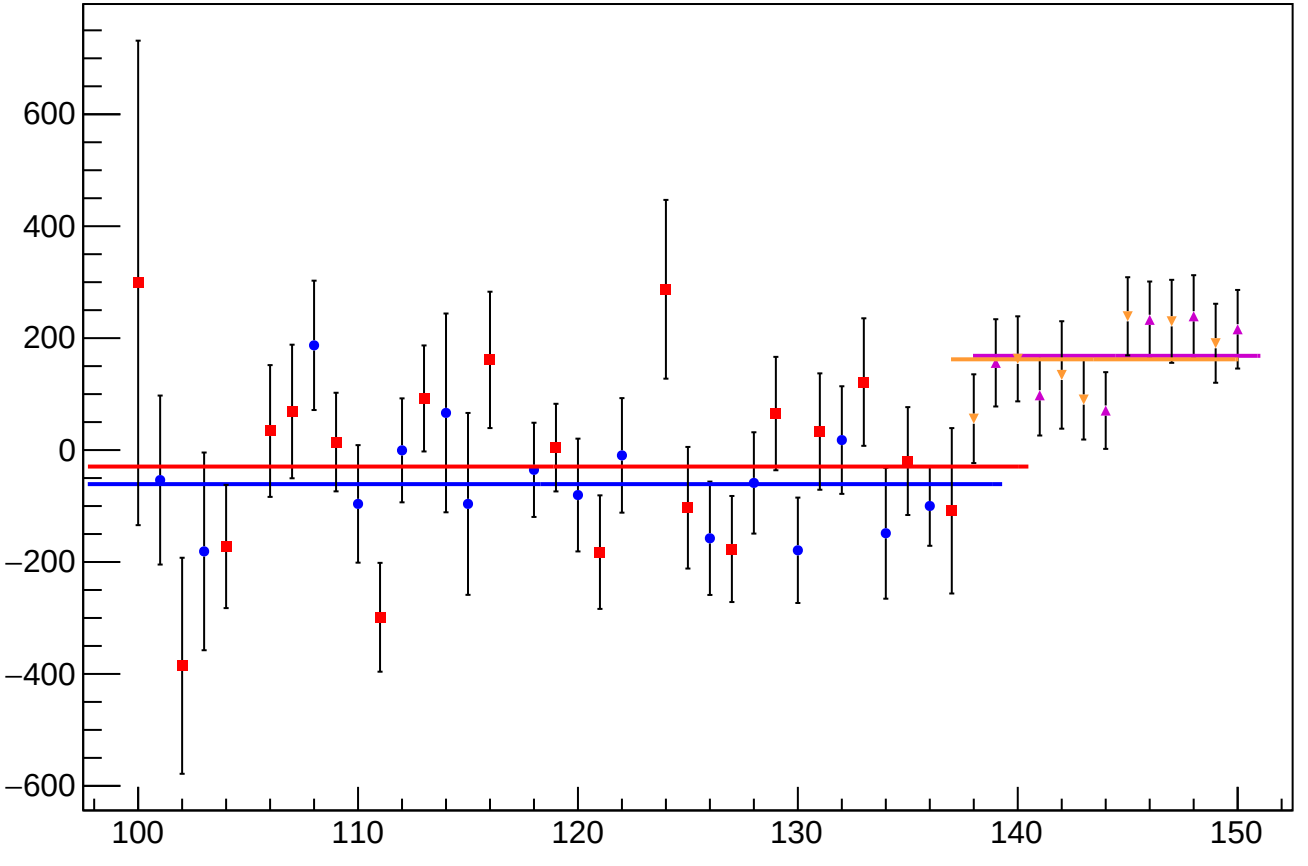
In: 0.000+/-0.000 $\chi^2$/NDF:20.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 44.9/47


asym_sam6_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3187097.4/15
Left Out: 0.000+/-0.000 χ²/NDF:291265.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 2049385.6/18
Left In: 0.000+/-0.000 χ²/NDF:810095.0/5
Left: 0.000+/-0.000 χ²/NDF: 1102935.3/12
Right: 0.000+/-0.000 χ²/NDF: 5674807.3/34
In: 0.000+/-0.000 χ²/NDF:4014376.4/21
Out: 0.000+/-0.000 χ²/NDF:2582268.0/25
All: 0.000+/-0.000 χ²/NDF: 6805809.6/47

# reg_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.846+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 162.147+/-28.577 $\chi^2$/NDF:5.1/6

Right Out: -29.453+/-25.105 $\chi^2$/NDF: 31.2/18

Left In: 168.408+/-29.203 $\chi^2$/NDF:5.3/5

Left: 165.210+/-20.425 $\chi^2$/NDF: 10.4/12

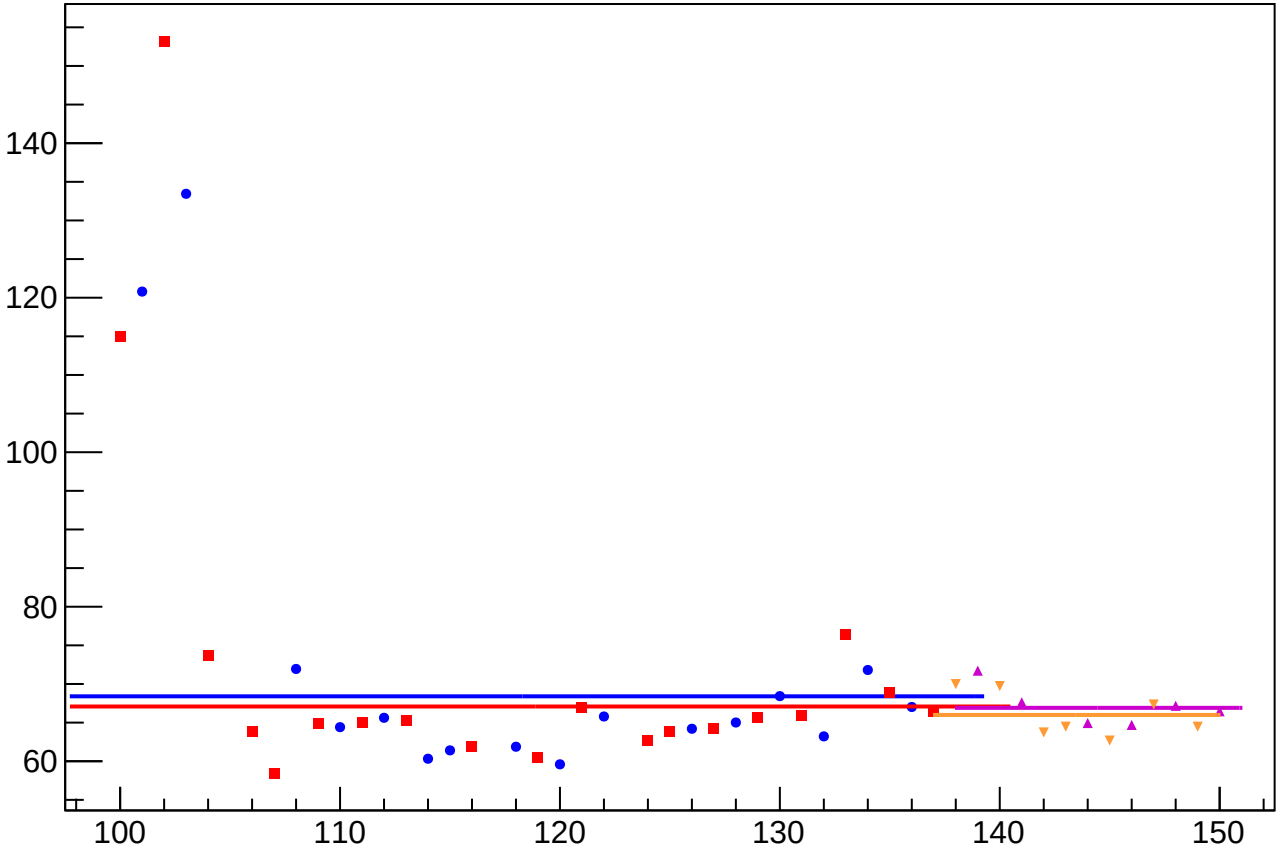
Right: -44.568+/-18.078 $\chi^2$/NDF: 42.5/34

In: 40.758+/-19.441 $\chi^2$/NDF:50.2/21

Out: 54.008+/-18.861 $\chi^2$/NDF:61.7/25

All: 47.583+/-13.537 $\chi^2$/NDF: 112.1/47

# reg_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.5/15

Left Out: 65.991+/-0.020 $\chi^2$/NDF:18031.1/6

Right Out: 67.086+/-0.018 $\chi^2$/NDF: 481815.1/18

Left In: 66.912+/-0.021 $\chi^2$/NDF:11653.7/5

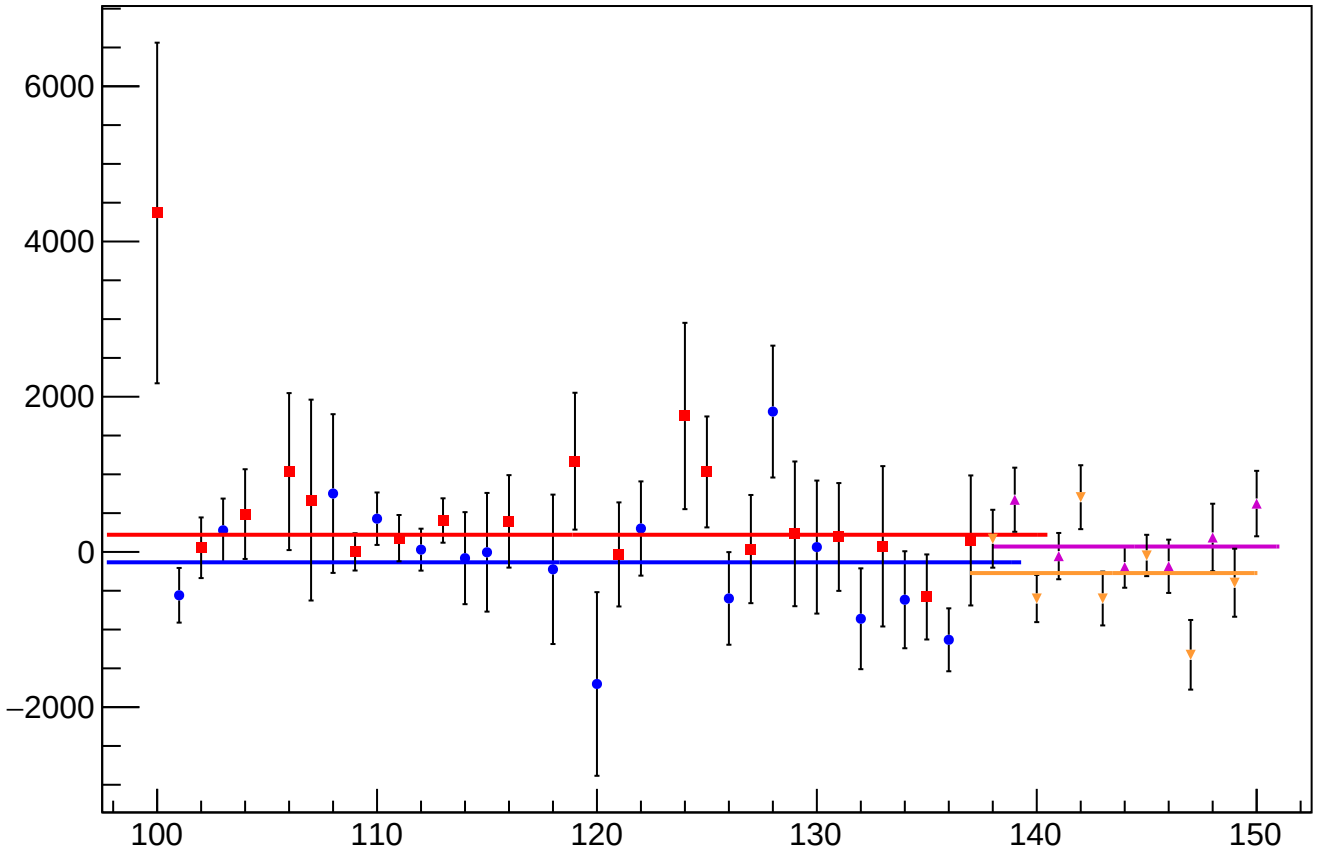
Left: 66.442+/-0.014 $\chi^2$/NDF: 30699.3/12

Right: 67.720+/-0.013 $\chi^2$/NDF: 1054024.8/34

In: 67.742+/-0.014 $\chi^2$/NDF:584116.8/21

Out: 66.609+/-0.013 $\chi^2$/NDF:501501.7/25

All: 67.158+/-0.010 $\chi^2$/NDF: 1089118.8/47




Right In: -133.590+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -272.301+/-133.061 $\chi^2$/NDF:15.4/6

Right Out: 221.324+/-117.783 $\chi^2$/NDF: 12.5/18

Left In: 69.620+/-140.634 $\chi^2$/NDF:5.6/5

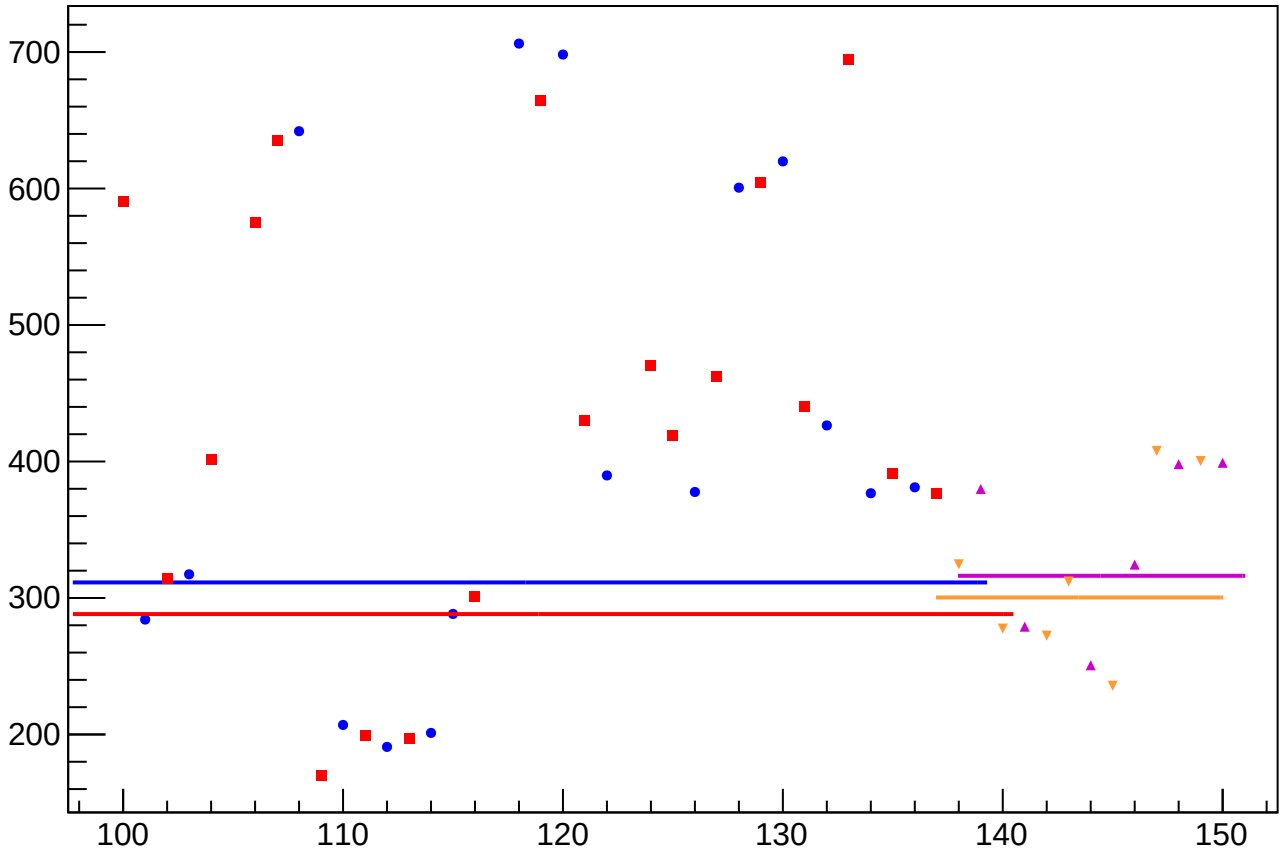
Left: -110.795+/-96.655 $\chi^2$/NDF: 24.2/12

Right: 55.682+/-86.013 $\chi^2$/NDF: 39.2/34

In: -43.182+/-93.804 $\chi^2$/NDF:29.3/21

Out: 4.465+/-88.194 $\chi^2$/NDF:35.7/25

All: -17.891+/-64.254 $\chi^2$/NDF: 65.1/47




Right In: 311.386+/-0.089 $\chi^2$/NDF: 2123797.6/15

Left Out: 300.374+/-0.094 $\chi^2$/NDF:367801.9/6

Right Out: 288.205+/-0.083 $\chi^2$/NDF: 2715380.6/18

Left In: 316.253+/-0.099 $\chi^2$/NDF:348525.0/5

Left: 307.874+/-0.068 $\chi^2$/NDF: 729780.1/12

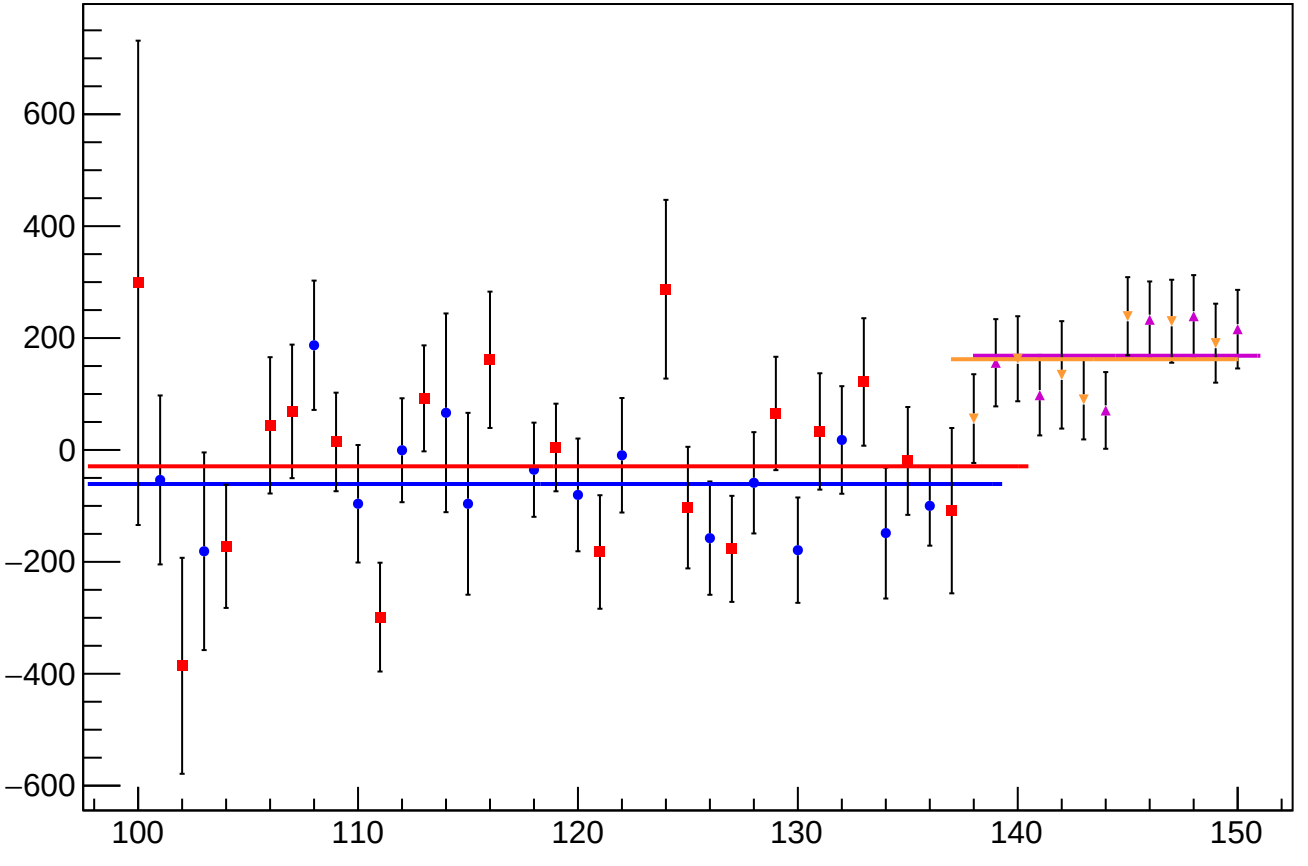
Right: 299.024+/-0.061 $\chi^2$/NDF: 4875335.3/34

In: 313.551+/-0.066 $\chi^2$/NDF:2473652.0/21

Out: 293.551+/-0.062 $\chi^2$/NDF:3092561.6/25

All: 302.935+/-0.045 $\chi^2$/NDF: 5614473.5/47

# cor_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 162.150+/-28.577 $\chi^2$/NDF:5.1/6

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 168.406+/-29.203 $\chi^2$/NDF:5.3/5

Left: 165.211+/-20.425 $\chi^2$/NDF: 10.4/12

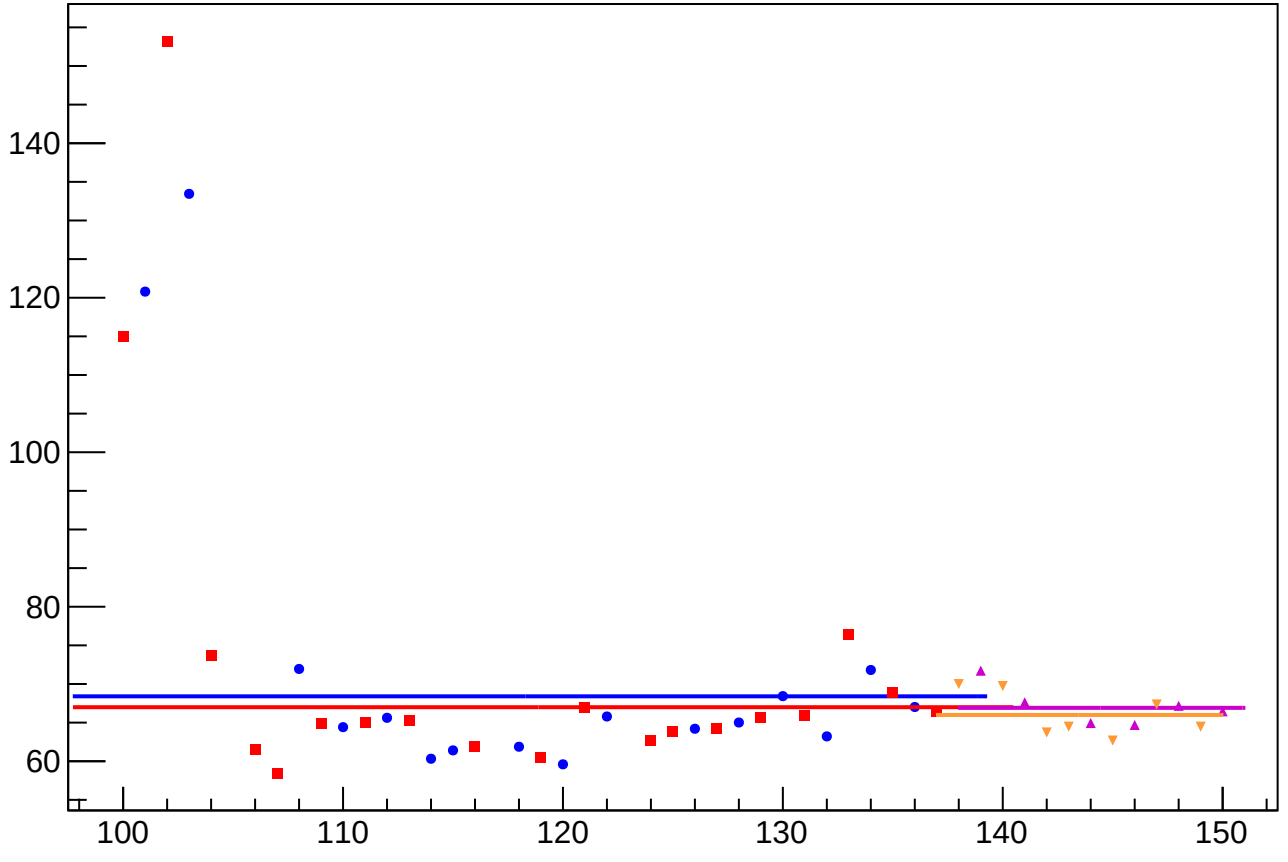
Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: 40.756+/-19.441 $\chi^2$/NDF:50.2/21

Out: 54.281+/-18.877 $\chi^2$/NDF:61.7/25

All: 47.718+/-13.543 $\chi^2$/NDF: 112.1/47

# cor_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 65.991+/-0.020 $\chi^2$/NDF:18031.1/6

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 66.912+/-0.021 $\chi^2$/NDF:11653.7/5

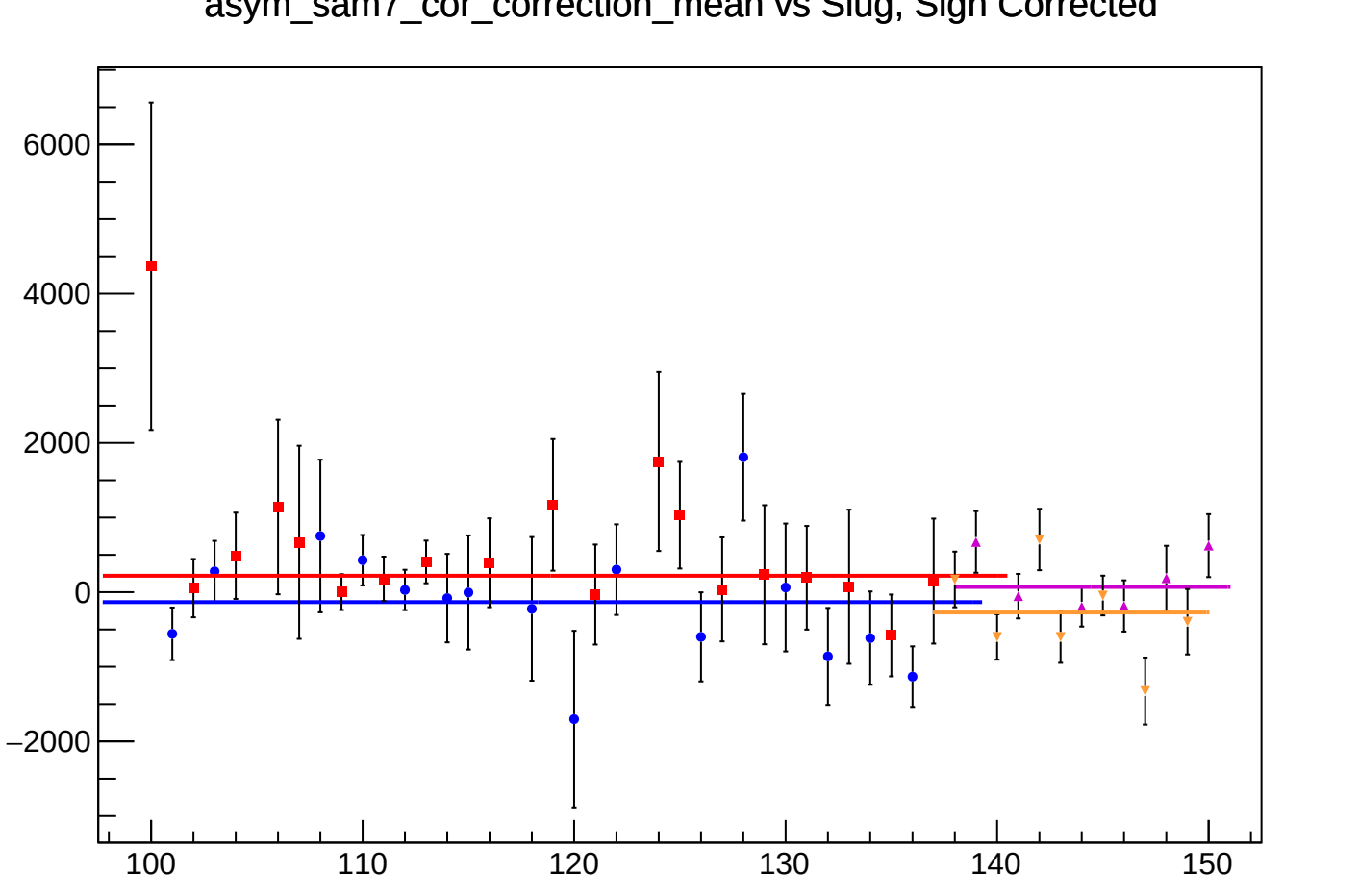
Left: 66.442+/-0.014 $\chi^2$/NDF: 30699.3/12

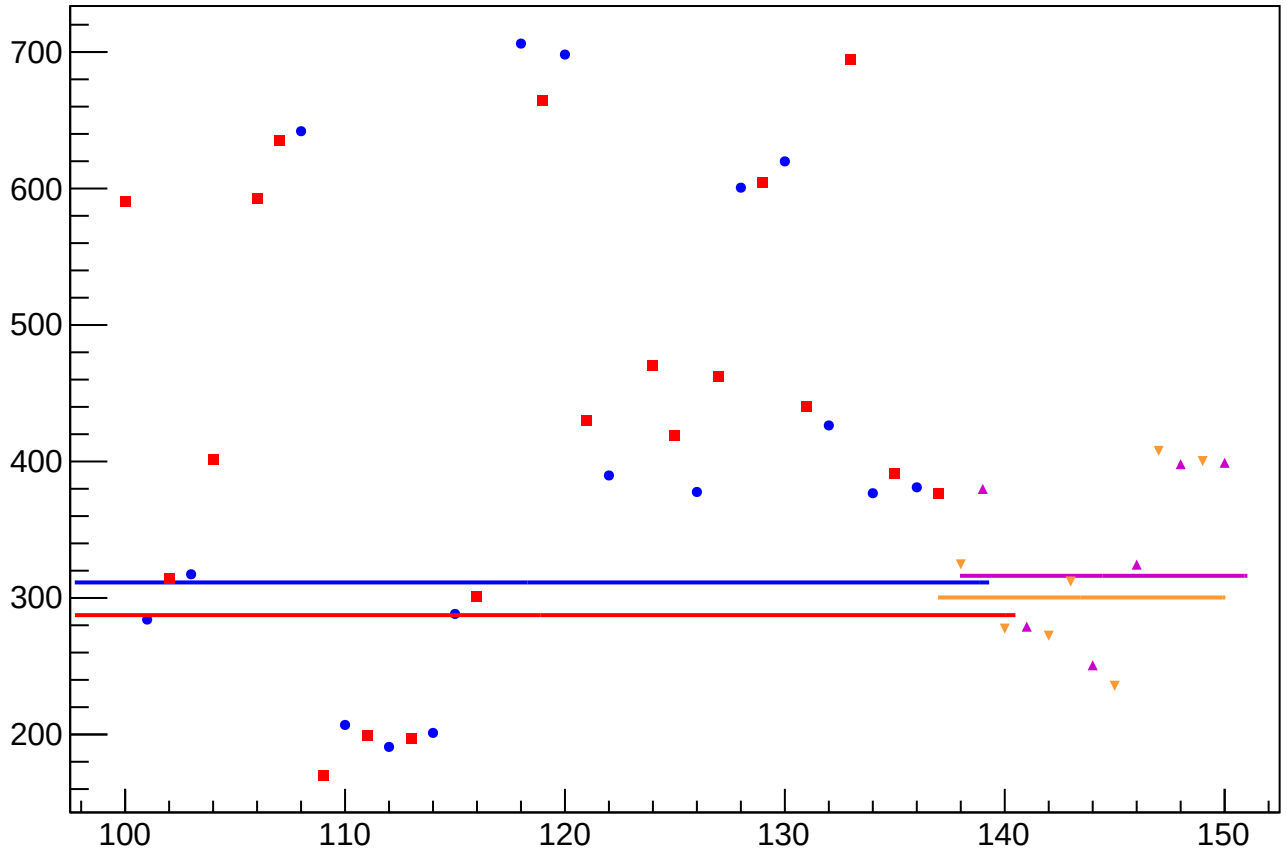
Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 67.742+/-0.014 $\chi^2$/NDF:584117.1/21

Out: 66.557+/-0.013 $\chi^2$/NDF:503908.3/25

All: 67.132+/-0.010 $\chi^2$/NDF: 1091852.3/47


asym_sam7_cor_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
100
110
120
130
140
150
Right In: -133.587+/-125.904 χ²/NDF: 22.5/15
Left Out: -272.298+/-133.060 χ²/NDF:15.4/6
Right Out: 219.615+/-117.989 χ²/NDF: 12.5/18
Left In: 69.616+/-140.635 χ²/NDF:5.6/5
Left: -110.796+/-96.655 χ²/NDF: 24.2/12
Right: 54.464+/-86.093 χ²/NDF: 39.2/34
In: -43.181+/-93.805 χ²/NDF:29.3/21
Out: 3.083+/-88.281 χ²/NDF:35.6/25
All: -18.647+/-64.288 χ²/NDF: 65.0/47




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 300.374+/-0.094 $\chi^2$/NDF:367802.0/6

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 316.253+/-0.099 $\chi^2$/NDF:348524.0/5

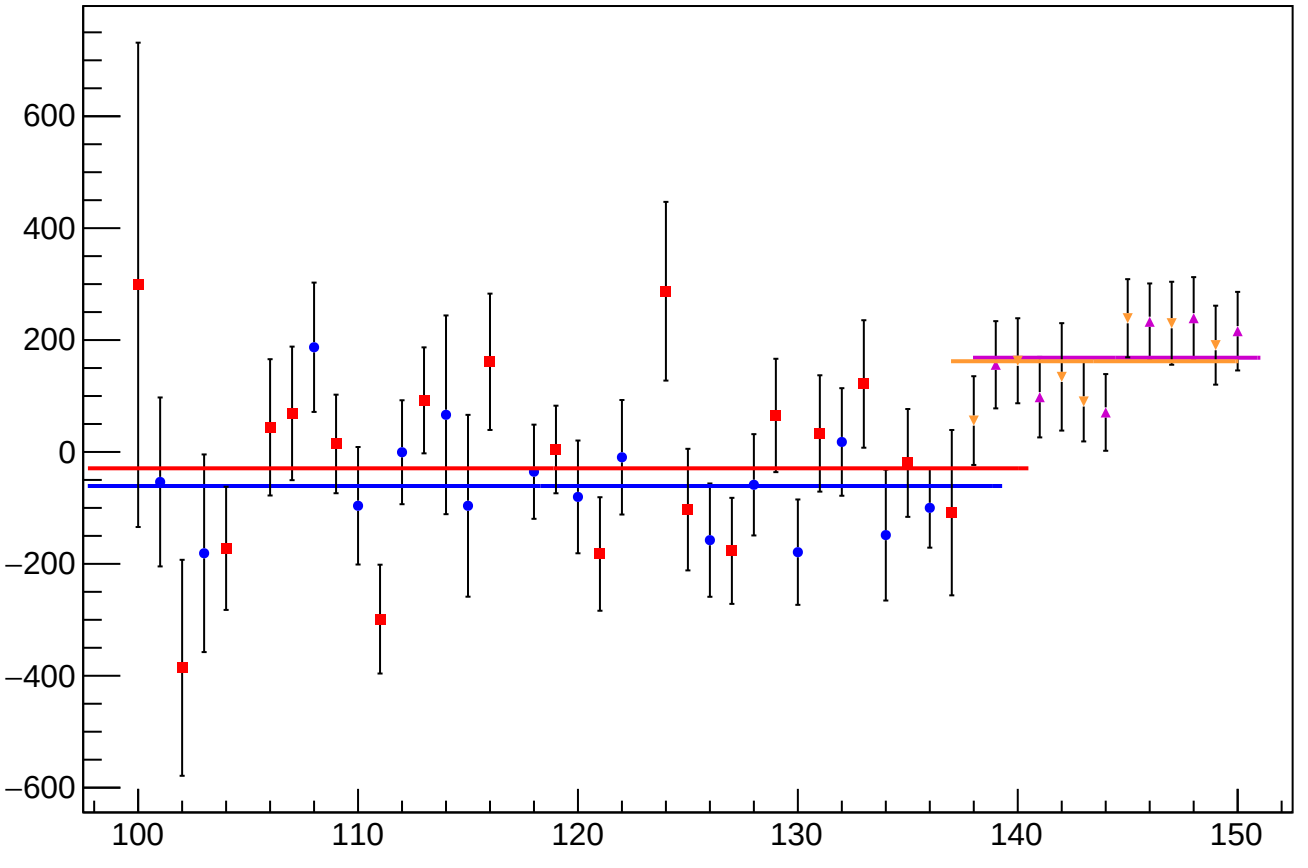
Left: 307.874+/-0.068 $\chi^2$/NDF: 729780.1/12

Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 313.552+/-0.066 $\chi^2$/NDF:2473651.4/21

Out: 293.118+/-0.062 $\chi^2$/NDF:3068682.4/25

All: 302.716+/-0.045 $\chi^2$/NDF: 5592664.4/47




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 162.150+/-28.577 $\chi^2$/NDF:5.1/6

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 168.406+/-29.203 $\chi^2$/NDF:5.3/5

Left: 165.211+/-20.425 $\chi^2$/NDF: 10.4/12

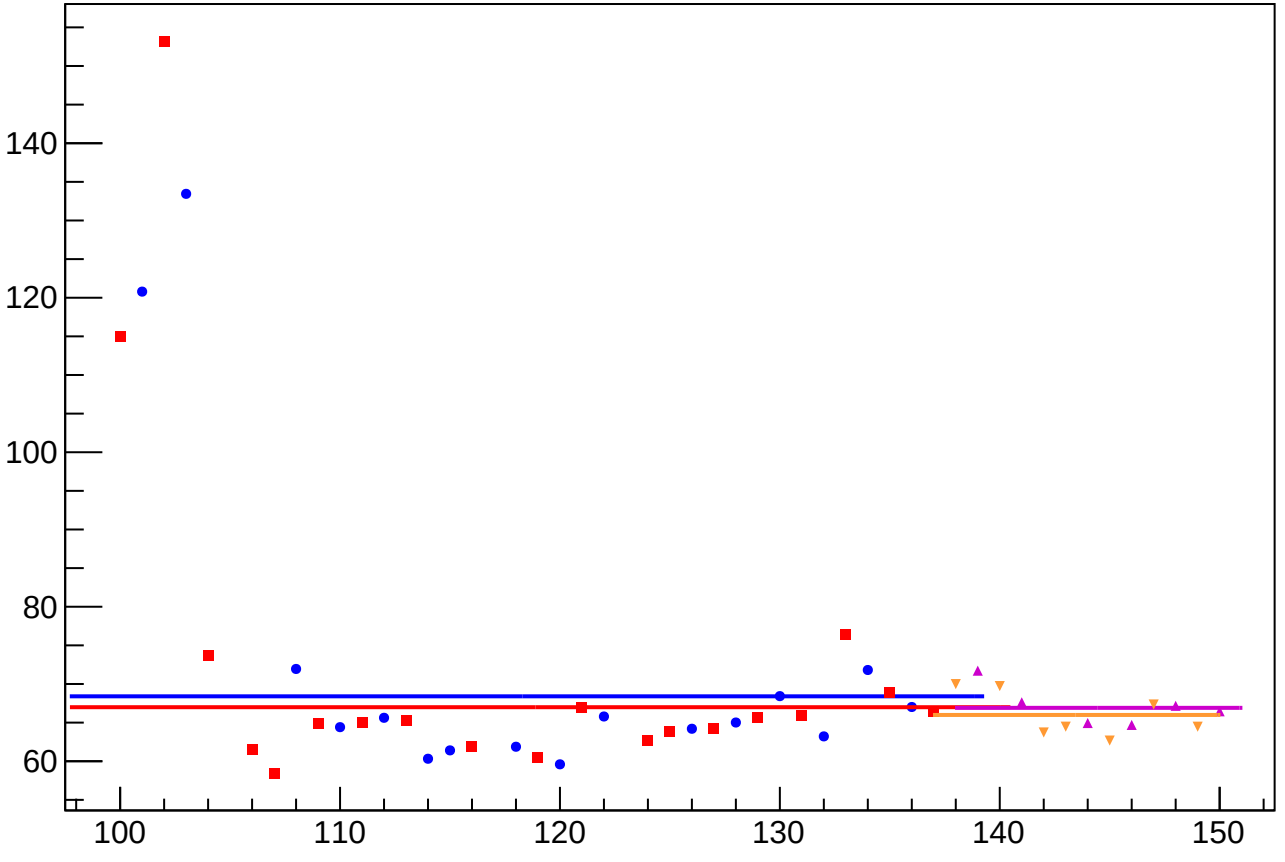
Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: 40.756+/-19.441 $\chi^2$/NDF:50.2/21

Out: 54.281+/-18.877 $\chi^2$/NDF:61.7/25

All: 47.718+/-13.543 $\chi^2$/NDF: 112.1/47

# eigen_cor_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 65.991+/-0.020 $\chi^2$/NDF:18031.1/6

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 66.912+/-0.021 $\chi^2$/NDF:11653.7/5

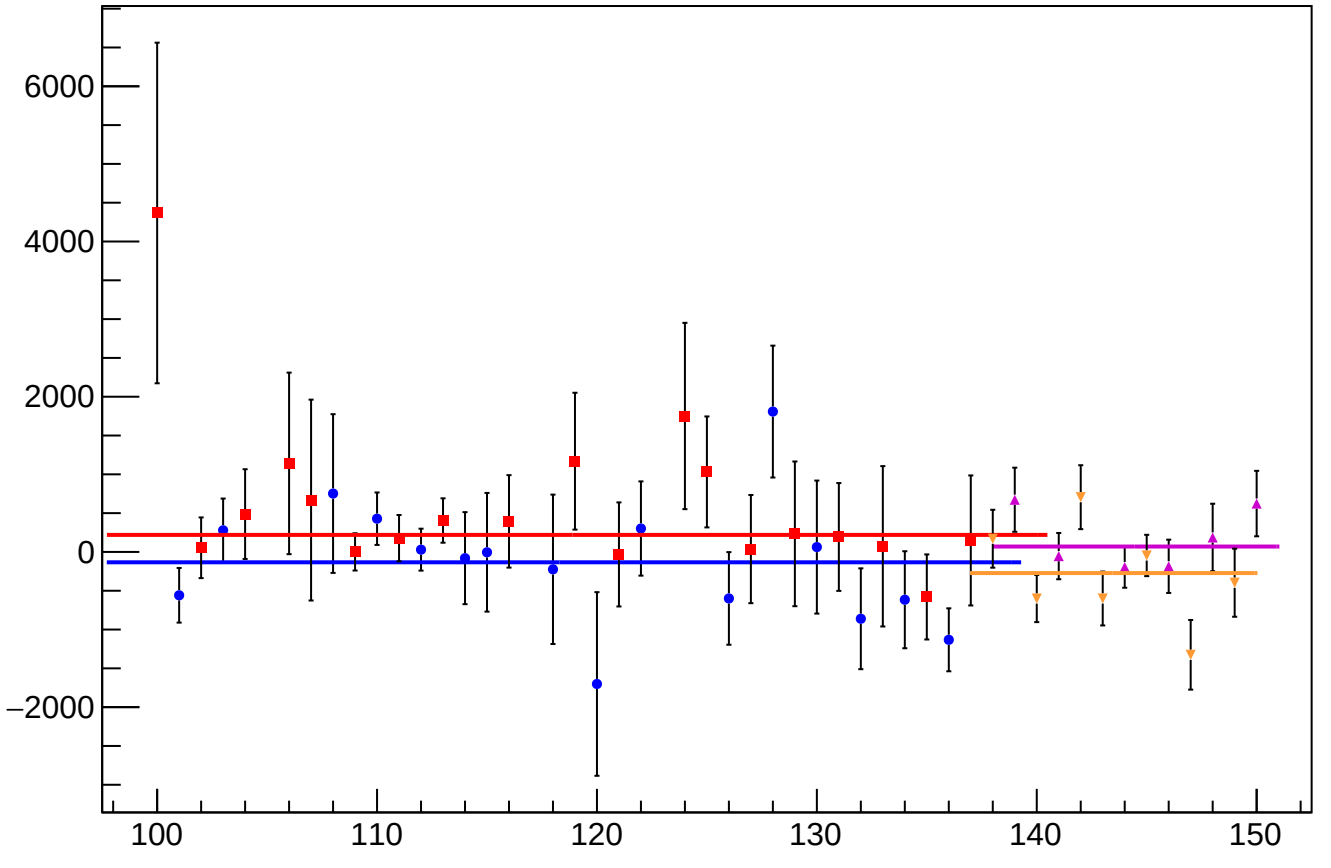
Left: 66.442+/-0.014 $\chi^2$/NDF: 30699.3/12

Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 67.742+/-0.014 $\chi^2$/NDF:584117.1/21

Out: 66.557+/-0.013 $\chi^2$/NDF:503908.3/25

All: 67.132+/-0.010 $\chi^2$/NDF: 1091852.3/47




Right In: -133.587+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -272.298+/-133.060 $\chi^2$/NDF:15.4/6

Right Out: 219.615+/-117.989 $\chi^2$/NDF: 12.5/18

Left In: 69.616+/-140.635 $\chi^2$/NDF:5.6/5

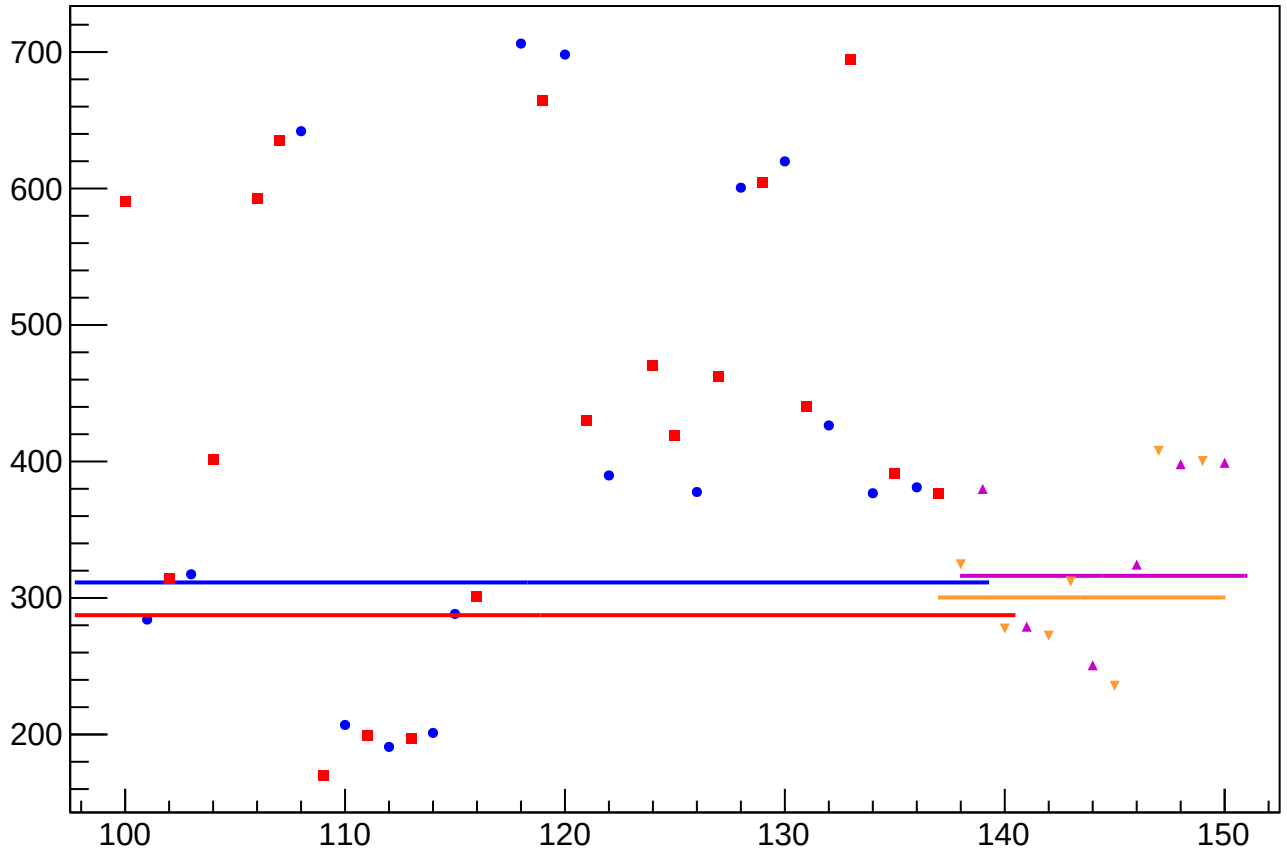
Left: -110.796+/-96.655 $\chi^2$/NDF: 24.2/12

Right: 54.464+/-86.093 $\chi^2$/NDF: 39.2/34

In: -43.181+/-93.805 $\chi^2$/NDF:29.3/21

Out: 3.083+/-88.281 $\chi^2$/NDF:35.6/25

All: -18.647+/-64.288 $\chi^2$/NDF: 65.0/47




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 300.374+/-0.094 $\chi^2$/NDF:367802.0/6

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 316.253+/-0.099 $\chi^2$/NDF:348524.0/5

Left: 307.874+/-0.068 $\chi^2$/NDF: 729780.1/12

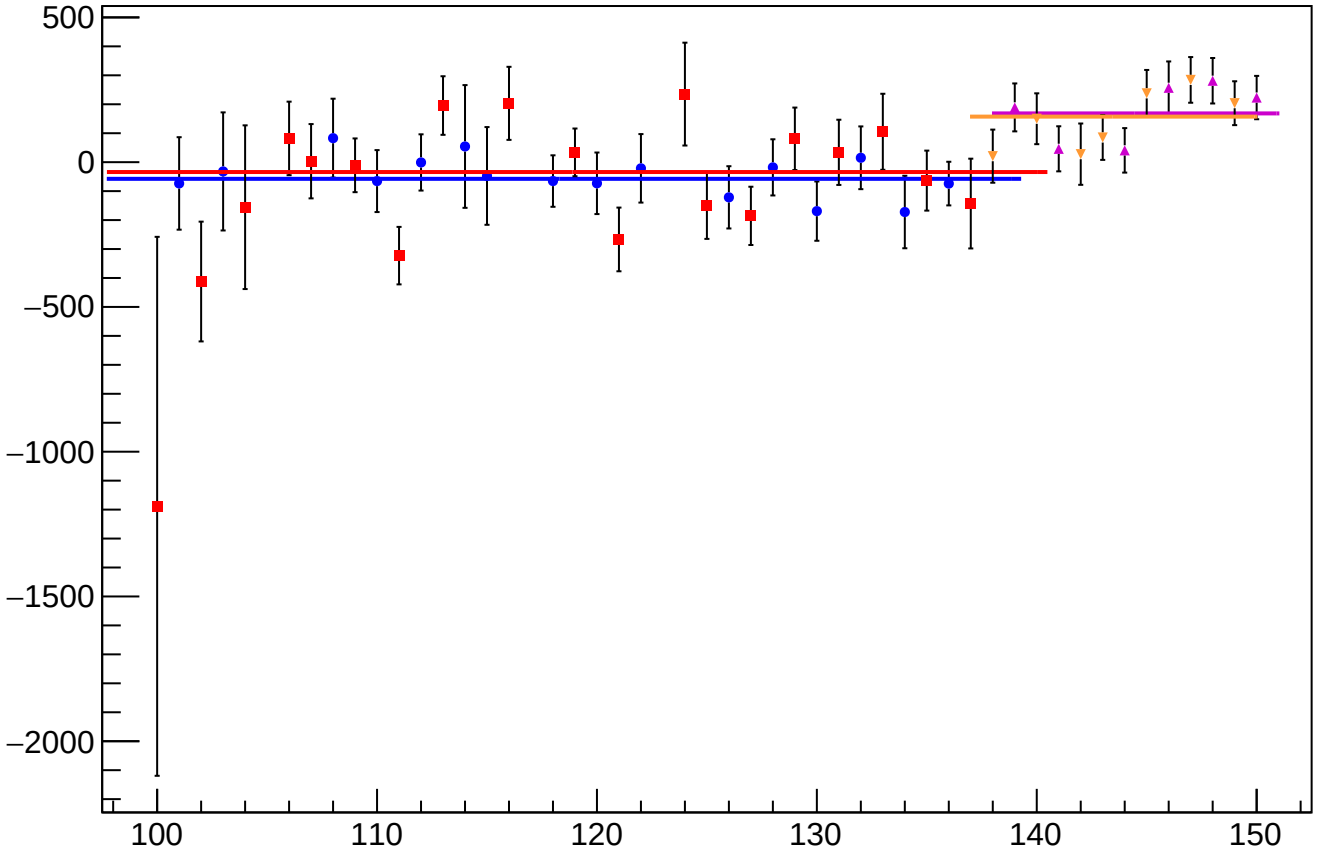
Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 313.552+/-0.066 $\chi^2$/NDF:2473651.4/21

Out: 293.118+/-0.062 $\chi^2$/NDF:3068682.4/25

All: 302.716+/-0.045 $\chi^2$/NDF: 5592664.4/47

# dit_asym_sam7_mean vs Slug, Sign Corrected




Right In: -57.533+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 157.354+/-31.733 $\chi^2$/NDF:8.5/6

Right Out: -34.033+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 168.417+/-32.587 $\chi^2$/NDF:8.8/5

Left: 162.739+/-22.734 $\chi^2$/NDF: 17.4/12

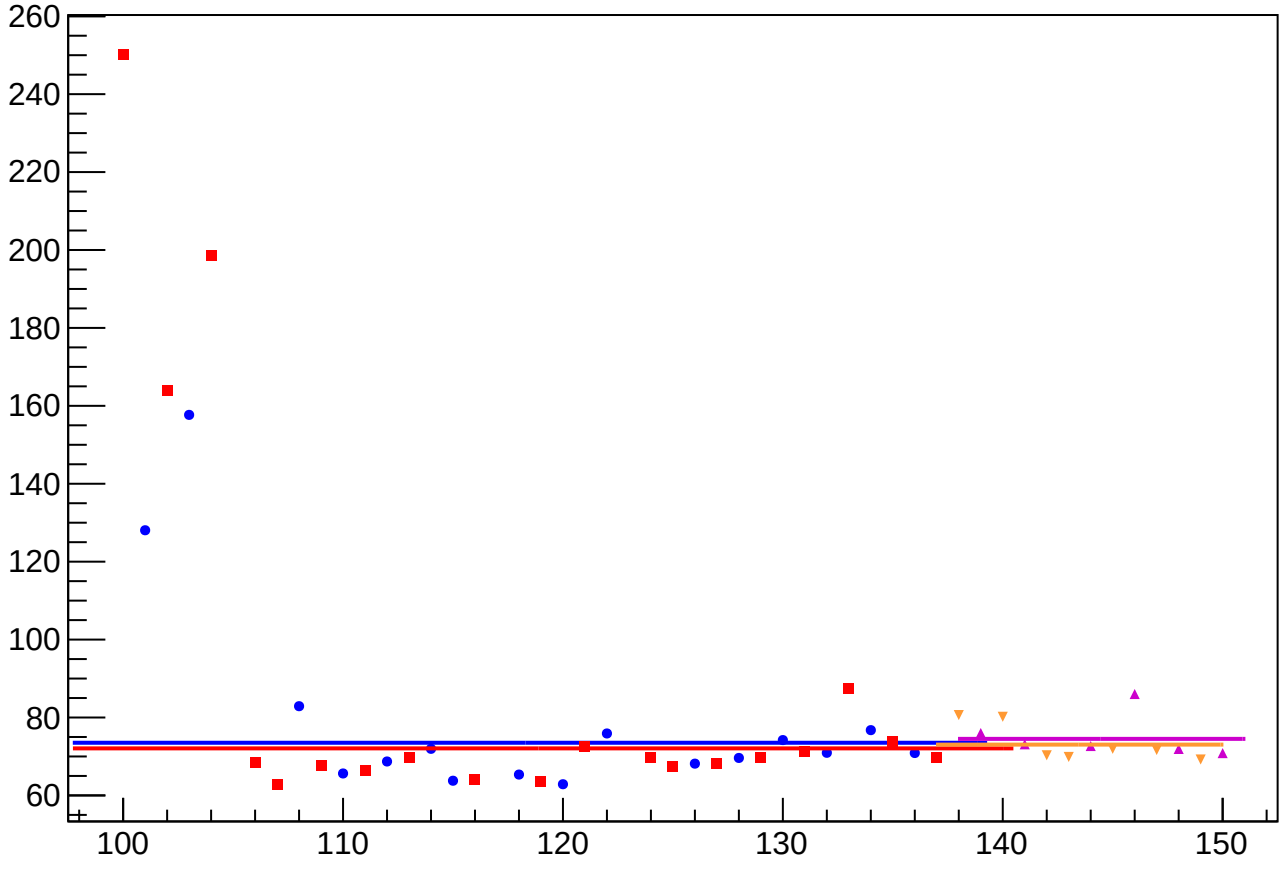
Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: 38.777+/-21.275 $\chi^2$/NDF:41.3/21

Out: 47.704+/-20.738 $\chi^2$/NDF:66.5/25

All: 43.355+/-14.850 $\chi^2$/NDF: 107.9/47

# dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656847.5/15

Left Out: 73.043+/-0.022 $\chi^2$/NDF:37648.1/6

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958495.0/18

Left In: 74.517+/-0.023 $\chi^2$/NDF:41417.3/5

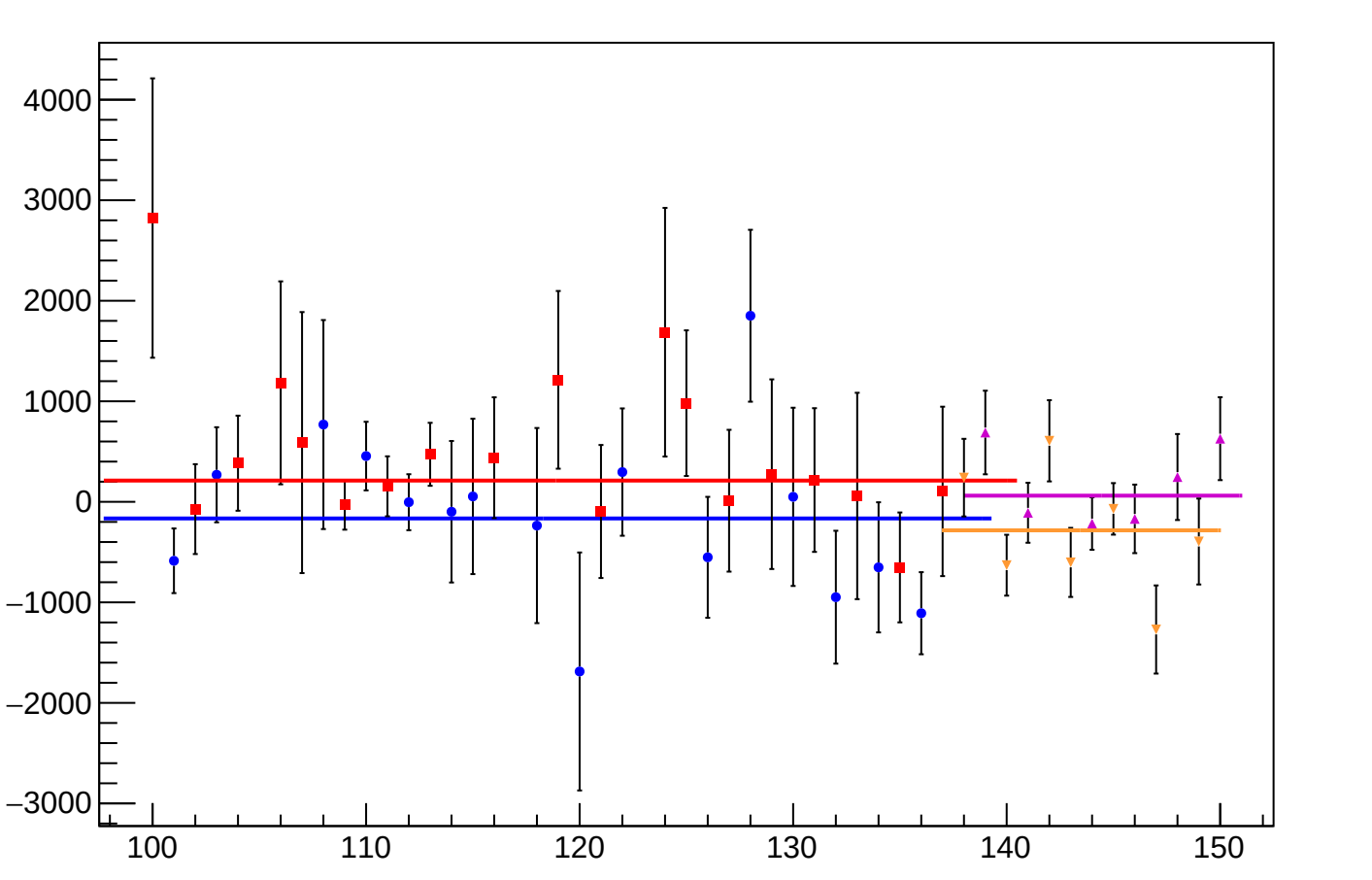
Left: 73.760+/-0.016 $\chi^2$/NDF: 81165.0/12

Right: 72.779+/-0.014 $\chi^2$/NDF: 1618055.3/34

In: 73.944+/-0.015 $\chi^2$/NDF:699340.5/21

Out: 72.488+/-0.015 $\chi^2$/NDF:997211.5/25

All: 73.197+/-0.011 $\chi^2$/NDF: 1701358.7/47




Right In: -165.500+/-128.438 $\chi^2$/NDF: 22.6/15

Left Out: -283.743+/-131.161 $\chi^2$/NDF:14.7/6

Right Out: 211.347+/-120.122 $\chi^2$/NDF: 13.6/18

Left In: 61.245+/-139.089 $\chi^2$/NDF:6.3/5

Left: -121.361+/-95.425 $\chi^2$/NDF: 24.2/12

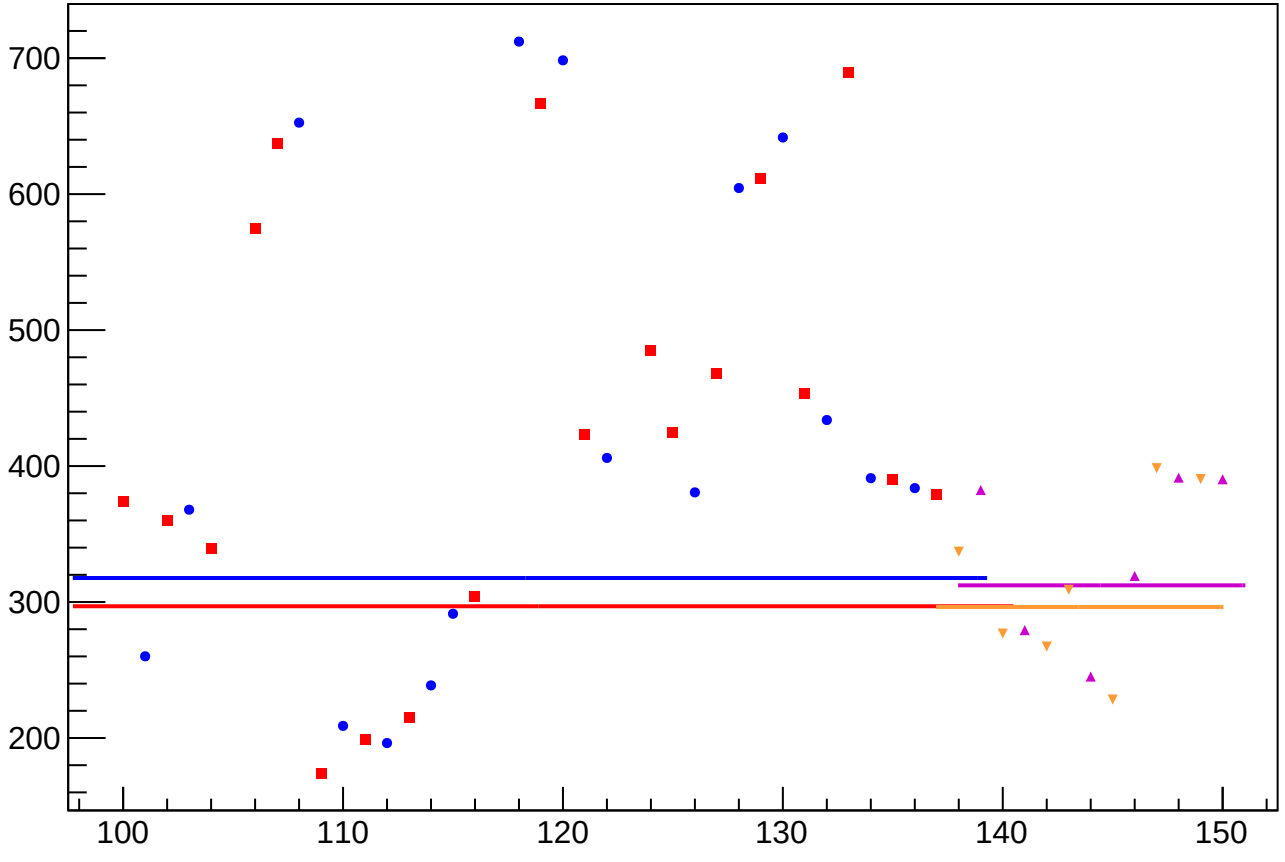
Right: 35.518+/-87.732 $\chi^2$/NDF: 40.8/34

In: -61.141+/-94.360 $\chi^2$/NDF:30.3/21

Out: -14.489+/-88.585 $\chi^2$/NDF:36.1/25

All: -36.344+/-64.584 $\chi^2$/NDF: 66.5/47

# asym_sam7_dit_correction_rms vs Slug, Sign Corrected




Right In: 317.664+/-0.091 $\chi^2$/NDF: 2136192.8/15

Left Out: 296.315+/-0.093 $\chi^2$/NDF:390177.6/6

Right Out: 296.888+/-0.085 $\chi^2$/NDF: 2541040.3/18

Left In: 312.277+/-0.098 $\chi^2$/NDF:354697.0/5

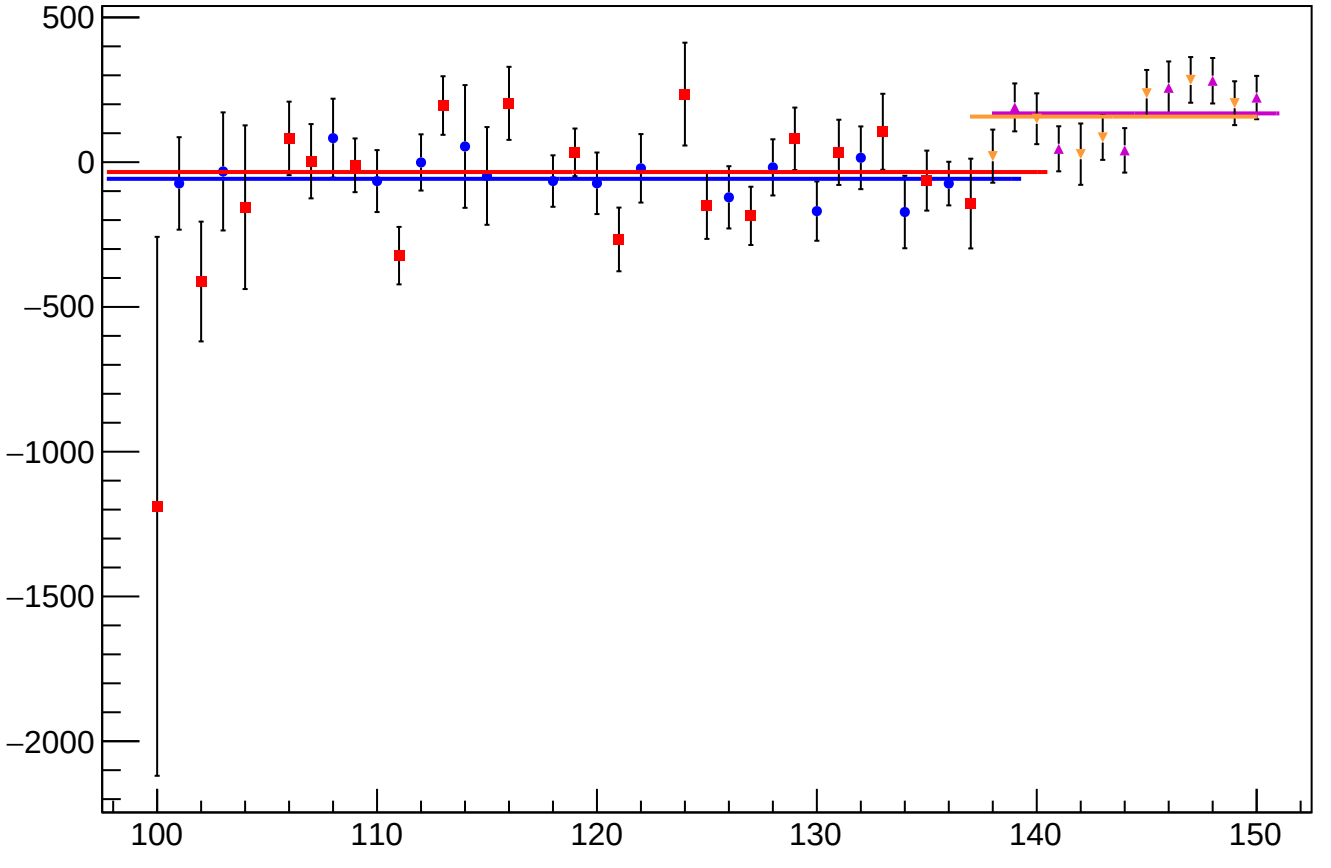
Left: 303.828+/-0.067 $\chi^2$/NDF: 758815.8/12

Right: 306.582+/-0.062 $\chi^2$/NDF: 4705147.7/34

In: 315.185+/-0.067 $\chi^2$/NDF:2492509.2/21

Out: 296.627+/-0.063 $\chi^2$/NDF:2931238.5/25

All: 305.320+/-0.046 $\chi^2$/NDF: 5464865.8/47




Right In: -57.532+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 157.352+/-31.733 $\chi^2$/NDF:8.5/6

Right Out: -34.034+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 168.417+/-32.587 $\chi^2$/NDF:8.8/5

Left: 162.738+/-22.734 $\chi^2$/NDF: 17.4/12

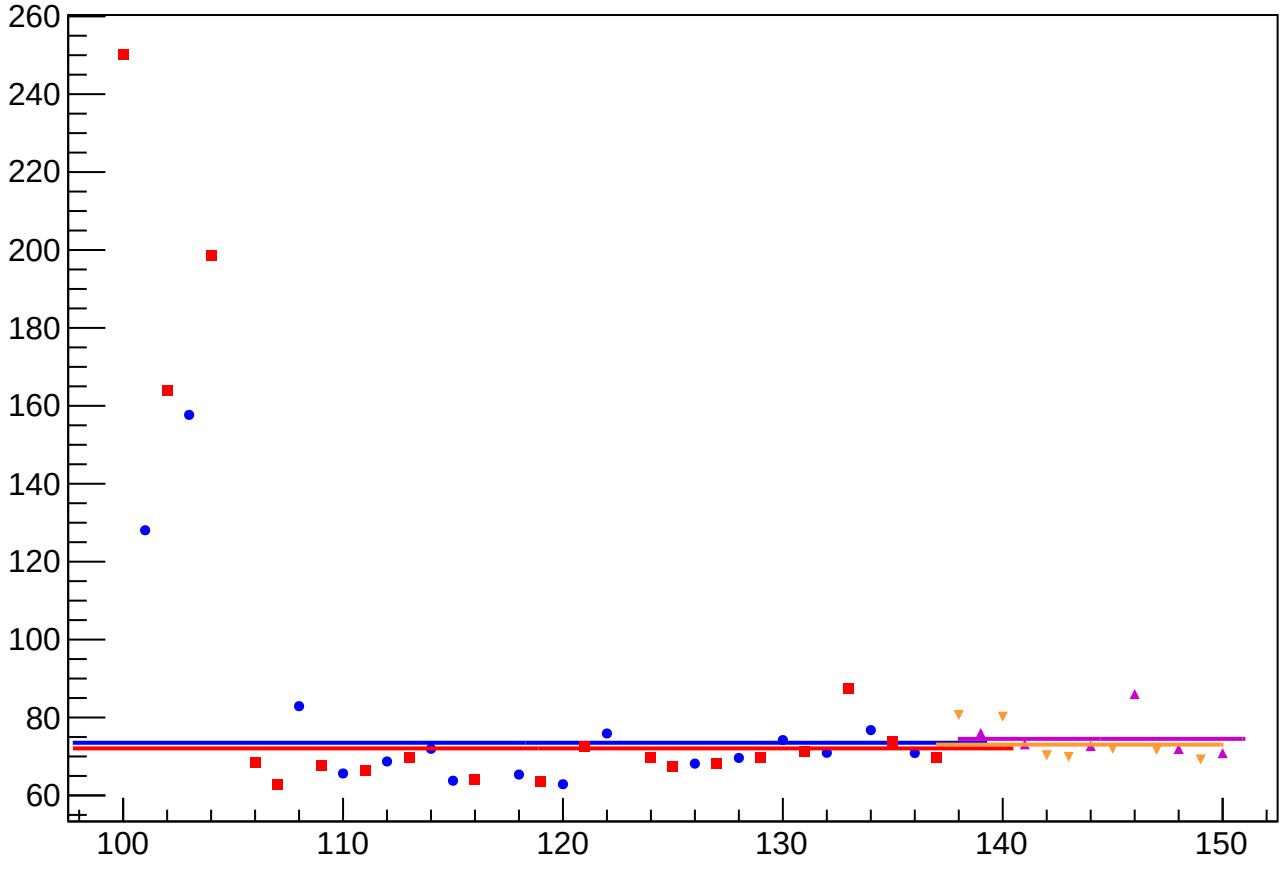
Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: 38.777+/-21.275 $\chi^2$/NDF:41.3/21

Out: 47.703+/-20.738 $\chi^2$/NDF:66.5/25

All: 43.354+/-14.850 $\chi^2$/NDF: 107.9/47

# eigen_dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656849.2/15

Left Out: 73.043+/-0.022 $\chi^2$/NDF:37647.8/6

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958496.3/18

Left In: 74.517+/-0.023 $\chi^2$/NDF:41418.0/5

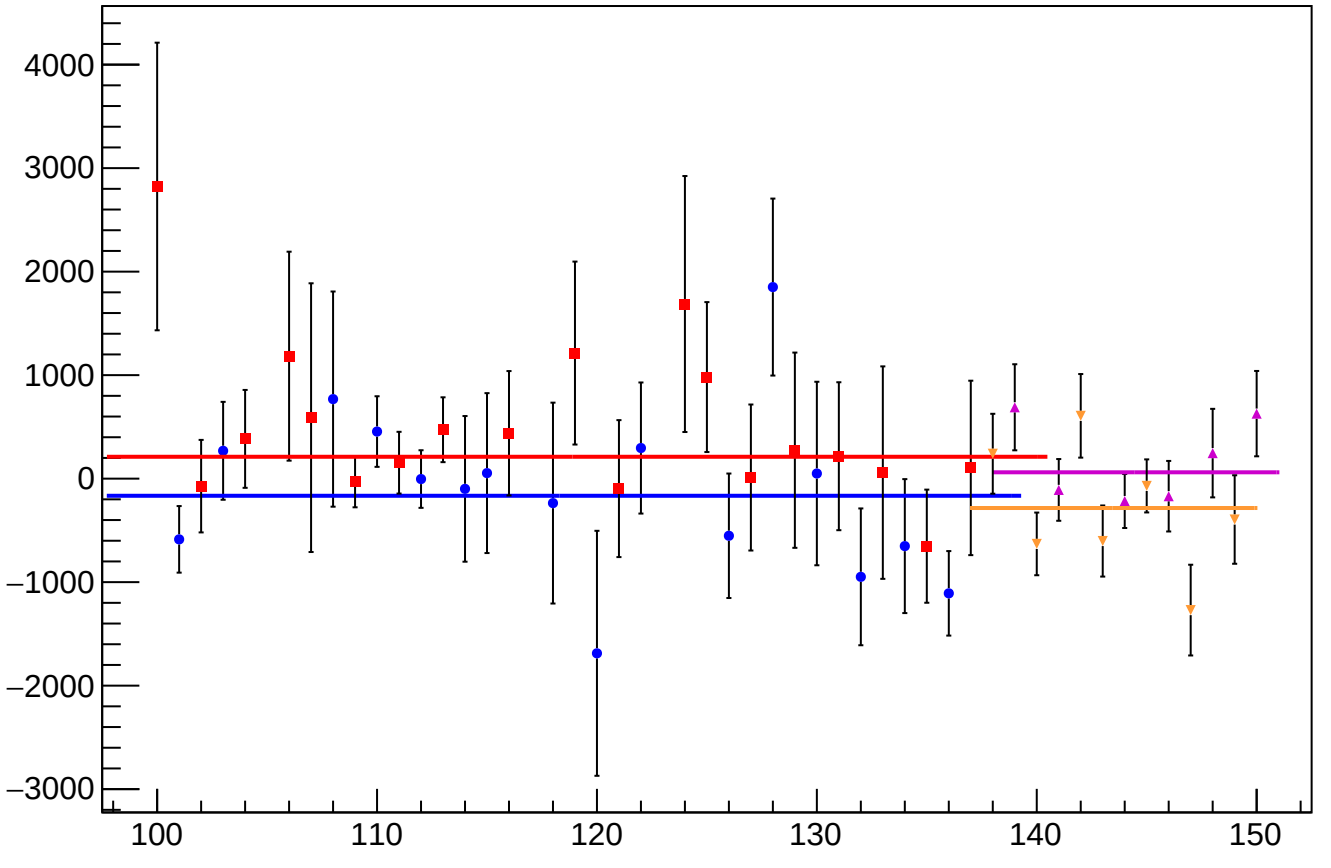
Left: 73.760+/-0.016 $\chi^2$/NDF: 81165.4/12

Right: 72.778+/-0.014 $\chi^2$/NDF: 1618058.1/34

In: 73.944+/-0.015 $\chi^2$/NDF:699343.2/21

Out: 72.488+/-0.015 $\chi^2$/NDF:997212.8/25

All: 73.197+/-0.011 $\chi^2$/NDF: 1701362.4/47




Right In: -165.498+/-128.437 $\chi^2$/NDF: 22.6/15

Left Out: -283.744+/-131.161 $\chi^2$/NDF:14.7/6

Right Out: 211.347+/-120.121 $\chi^2$/NDF: 13.6/18

Left In: 61.244+/-139.089 $\chi^2$/NDF:6.3/5

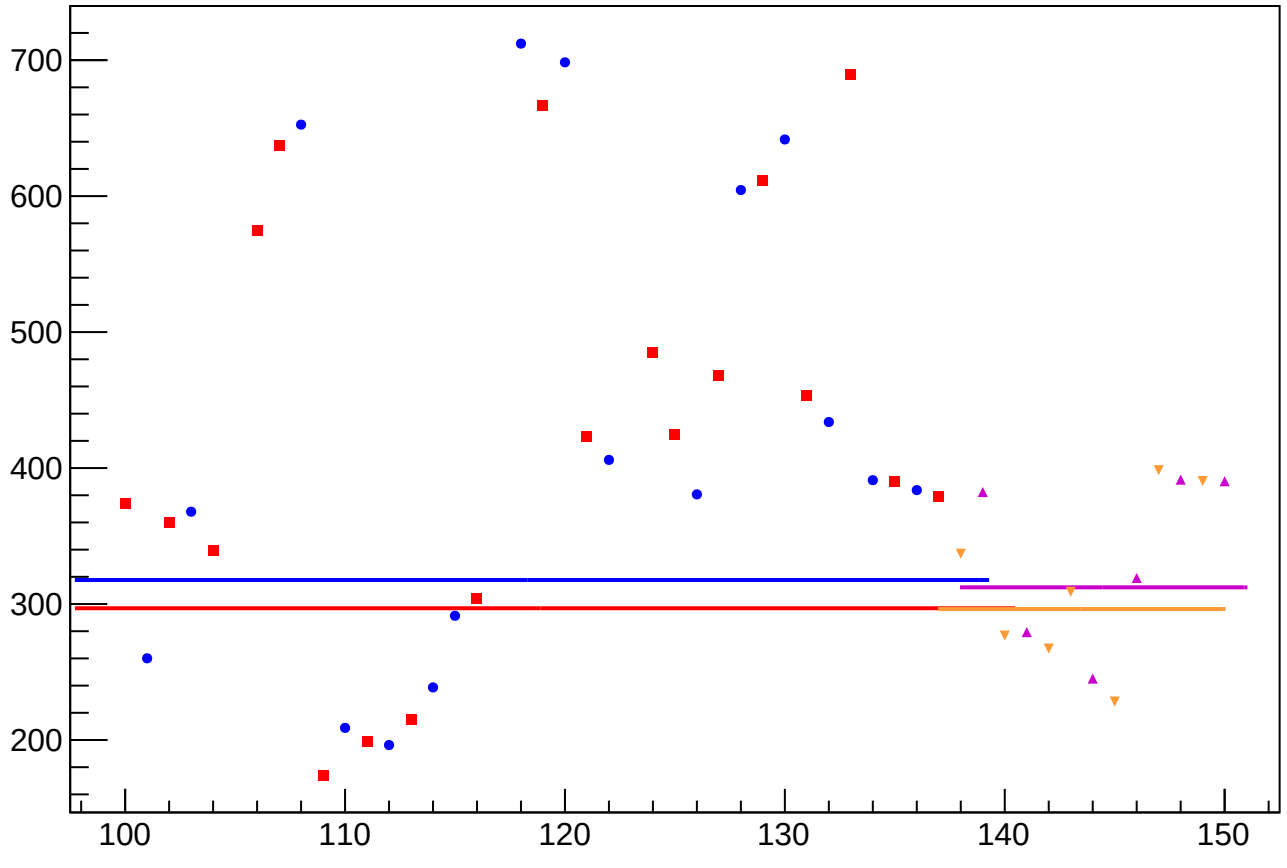
Left: -121.362+/-95.425 $\chi^2$/NDF: 24.2/12

Right: 35.517+/-87.731 $\chi^2$/NDF: 40.8/34

In: -61.141+/-94.360 $\chi^2$/NDF:30.3/21

Out: -14.489+/-88.585 $\chi^2$/NDF:36.1/25

All: -36.344+/-64.584 $\chi^2$/NDF: 66.5/47




Right In: 317.661+/-0.091 $\chi^2$/NDF: 2136224.4/15

Left Out: 296.315+/-0.093 $\chi^2$/NDF:390184.2/6

Right Out: 296.887+/-0.085 $\chi^2$/NDF: 2541051.2/18

Left In: 312.277+/-0.098 $\chi^2$/NDF:354702.2/5

Left: 303.828+/-0.067 $\chi^2$/NDF: 758828.2/12

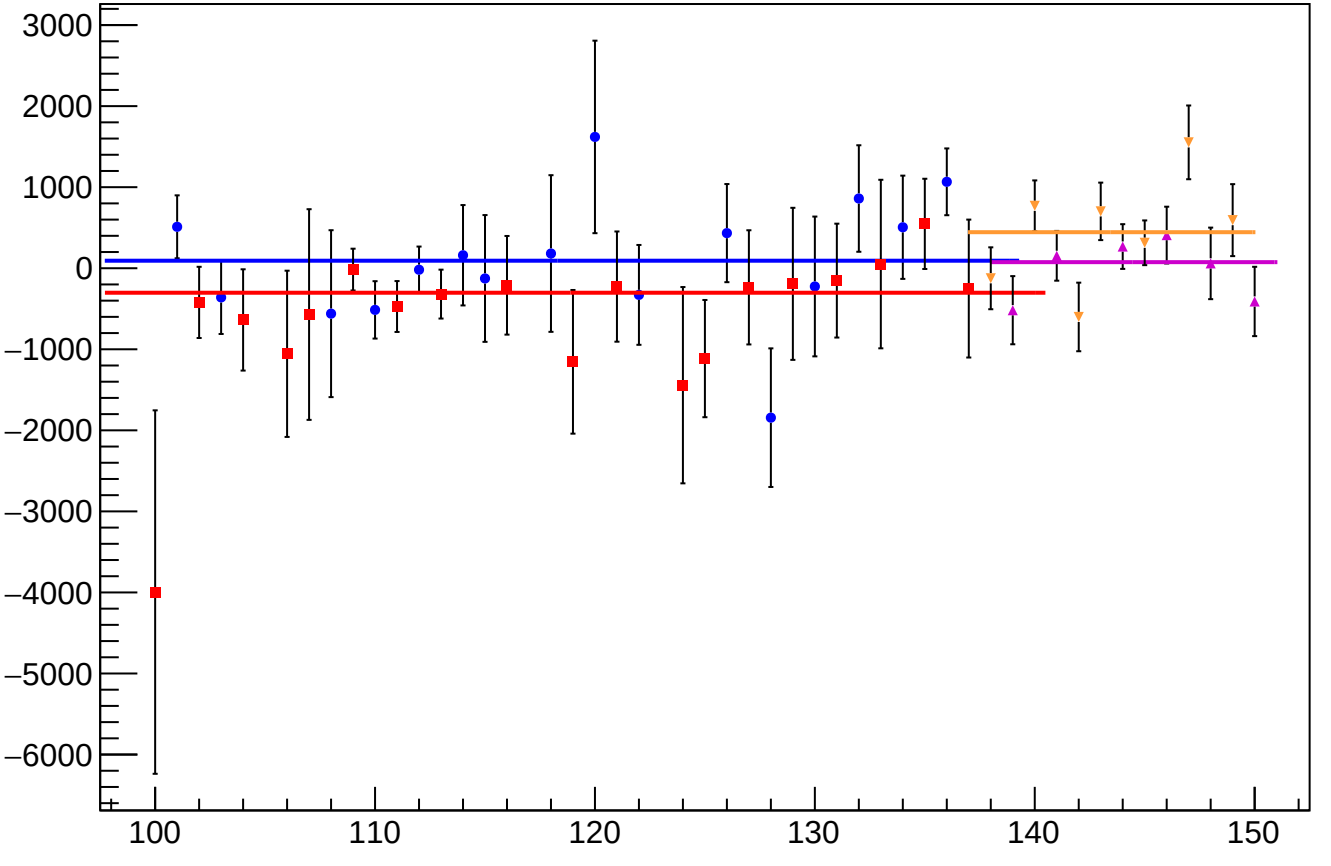
Right: 306.580+/-0.062 $\chi^2$/NDF: 4705187.9/34

In: 315.183+/-0.067 $\chi^2$/NDF:2492544.6/21

Out: 296.626+/-0.063 $\chi^2$/NDF:2931256.0/25

All: 305.319+/-0.046 $\chi^2$/NDF: 5464917.5/47

# asym_sam7_mean vs Slug, Sign Corrected




Right In: 92.803+/-131.927 $\chi^2$/NDF: 20.8/15

Left Out: 444.692+/-136.585 $\chi^2$/NDF:16.2/6

Right Out: -302.273+/-123.916 $\chi^2$/NDF: 10.8/18

Left In: 75.015+/-144.098 $\chi^2$/NDF:4.7/5

Left: 269.741+/-99.130 $\chi^2$/NDF: 24.4/12

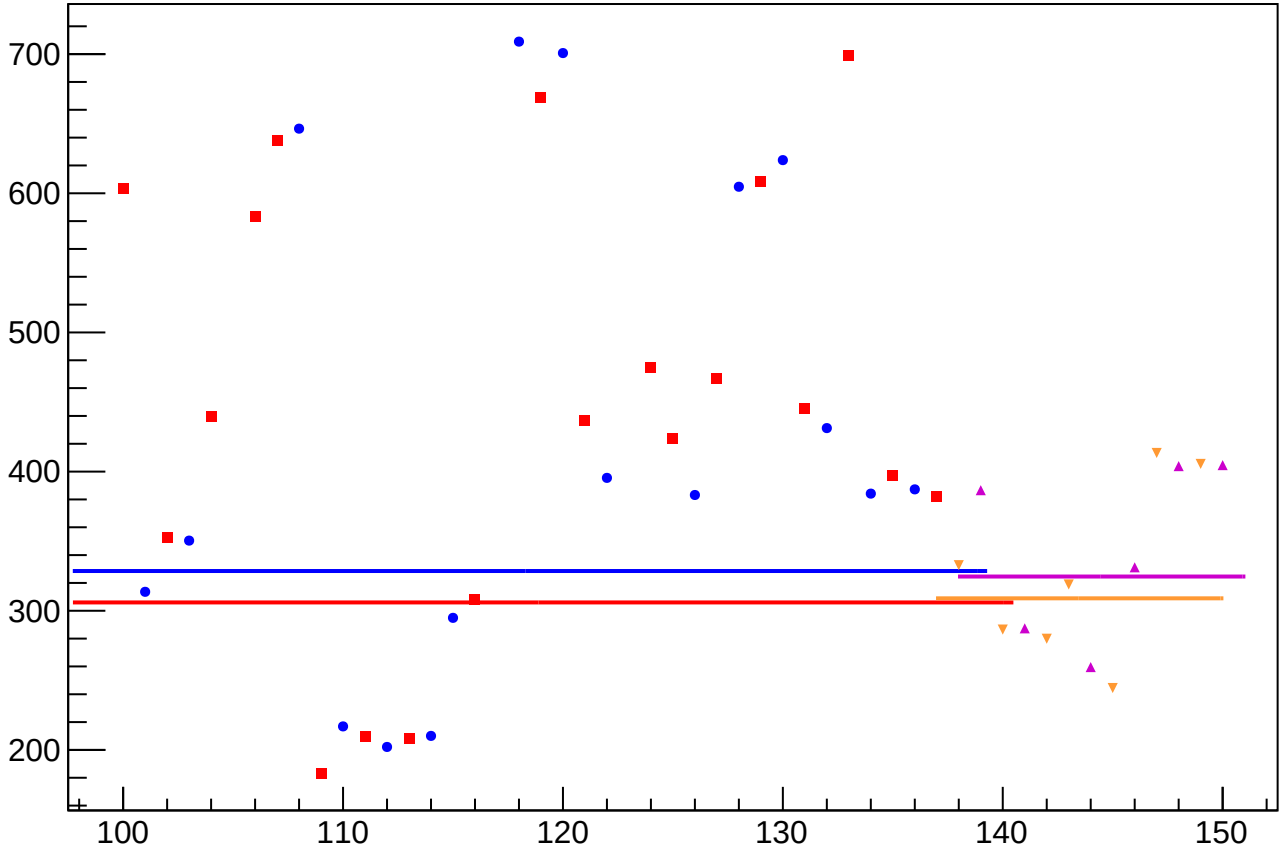
Right: -117.093+/-90.322 $\chi^2$/NDF: 36.4/34

In: 84.692+/-97.305 $\chi^2$/NDF:25.6/21

Out: 34.970+/-91.775 $\chi^2$/NDF:43.4/25

All: 58.378+/-66.764 $\chi^2$/NDF: 69.1/47

# asym_sam7_rms vs Slug, Sign Corrected




Right In: 328.567+/-0.093 $\chi^2$/NDF: 1958873.4/15

Left Out: 308.939+/-0.097 $\chi^2$/NDF:338276.6/6

Right Out: 305.988+/-0.088 $\chi^2$/NDF: 2527463.5/18

Left In: 324.602+/-0.102 $\chi^2$/NDF:319703.9/5

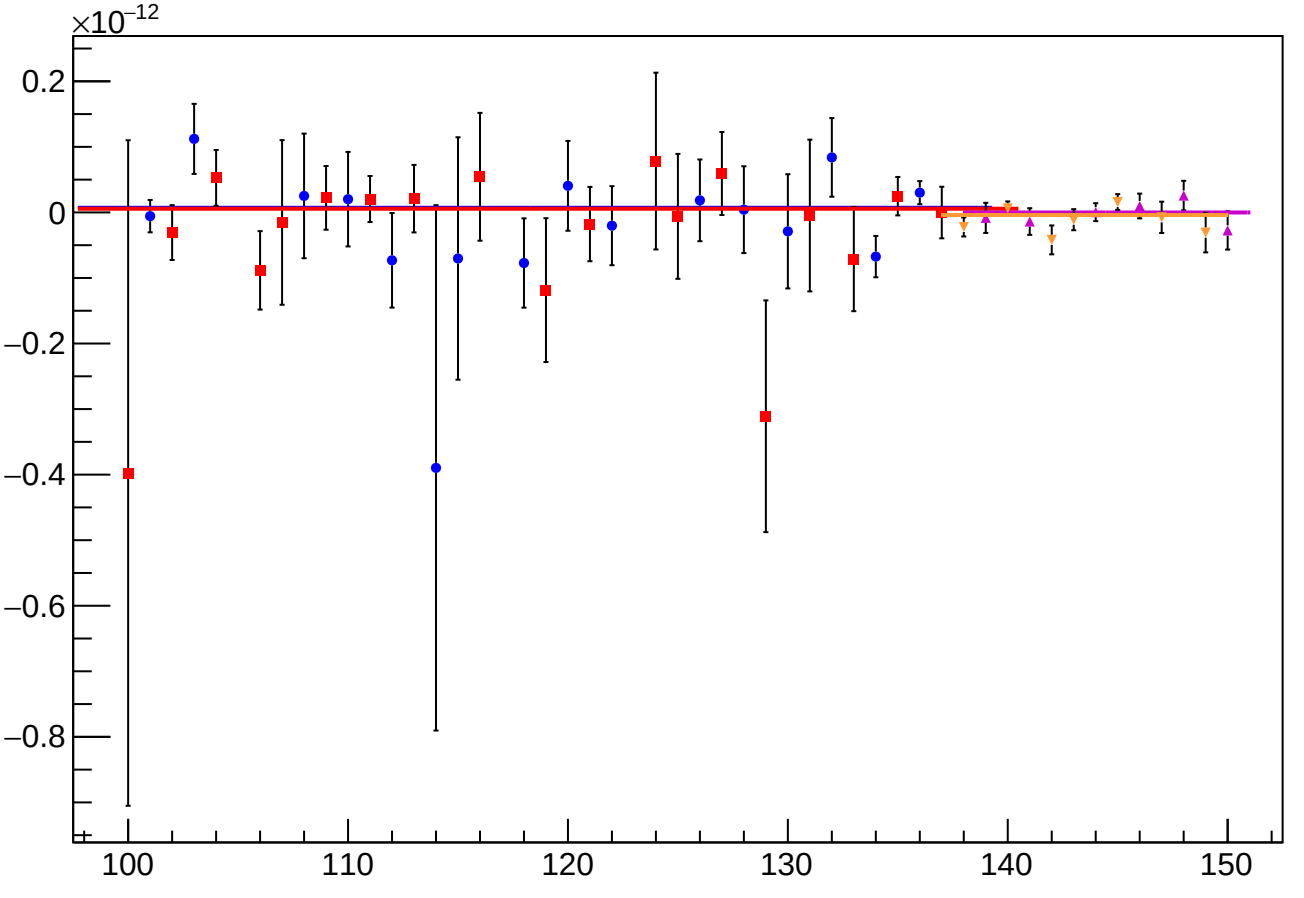
Left: 316.352+/-0.070 $\chi^2$/NDF: 670427.1/12

Right: 316.571+/-0.064 $\chi^2$/NDF: 4517458.9/34

In: 326.759+/-0.069 $\chi^2$/NDF:2279400.9/21

Out: 307.321+/-0.065 $\chi^2$/NDF:2866252.2/25

All: 316.472+/-0.047 $\chi^2$/NDF: 5187891.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.0/5

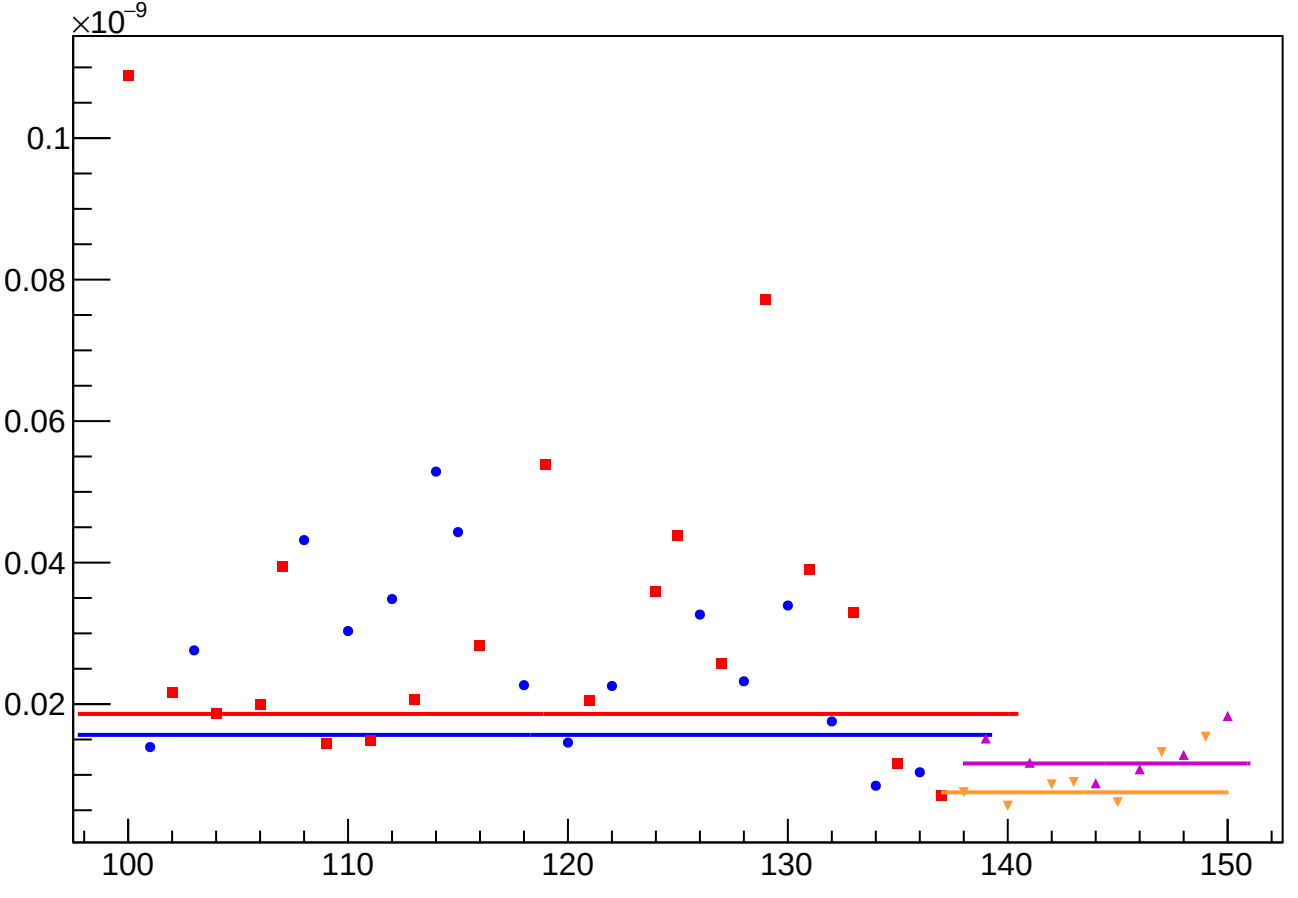
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:22.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 43.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1164380.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:361696.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228542.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:245227.5/5

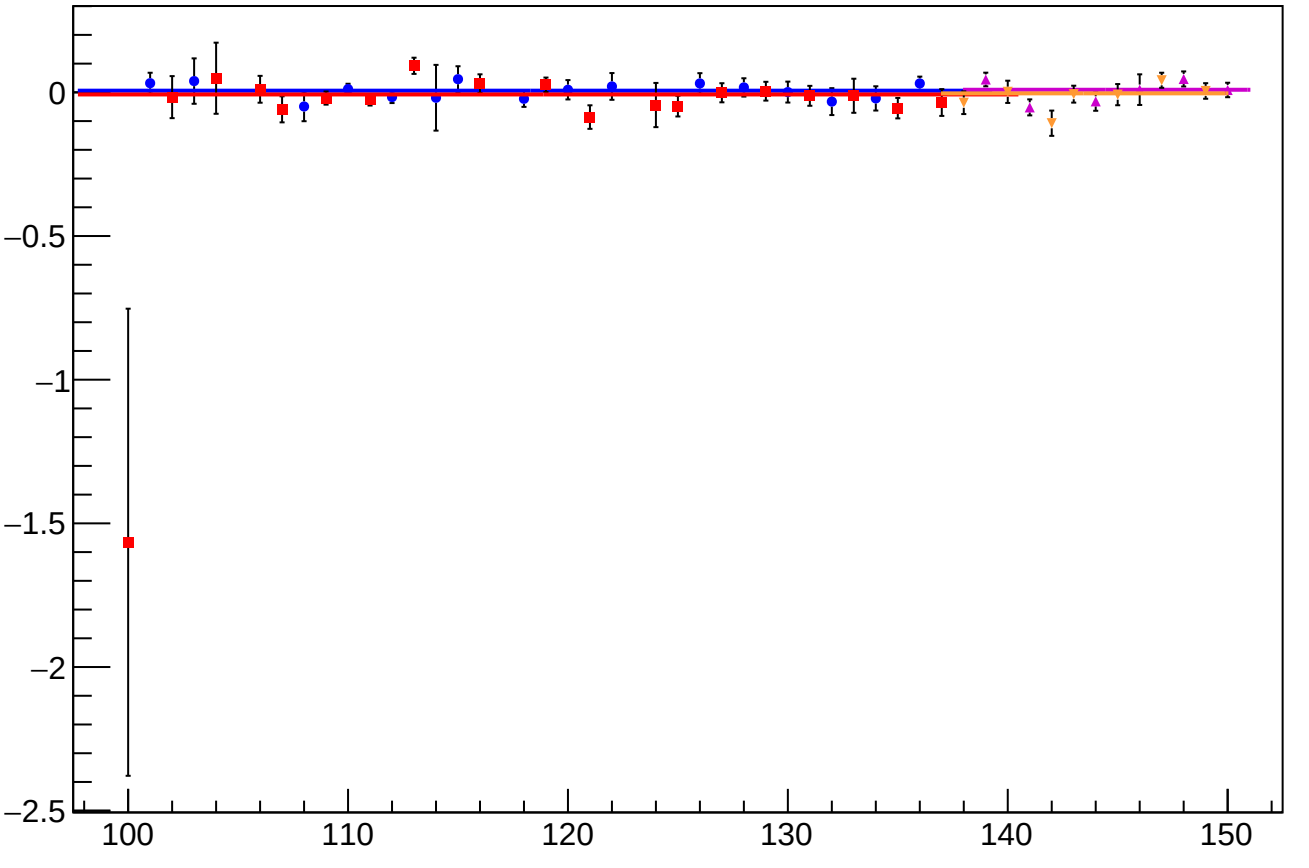
Left: 0.000+/-0.000 $\chi^2$/NDF: 946303.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 2454460.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1587229.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2826234.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4782373.7/47




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.004+/-0.012 $\chi^2$/NDF:9.4/6

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.009+/-0.012 $\chi^2$/NDF:10.6/5

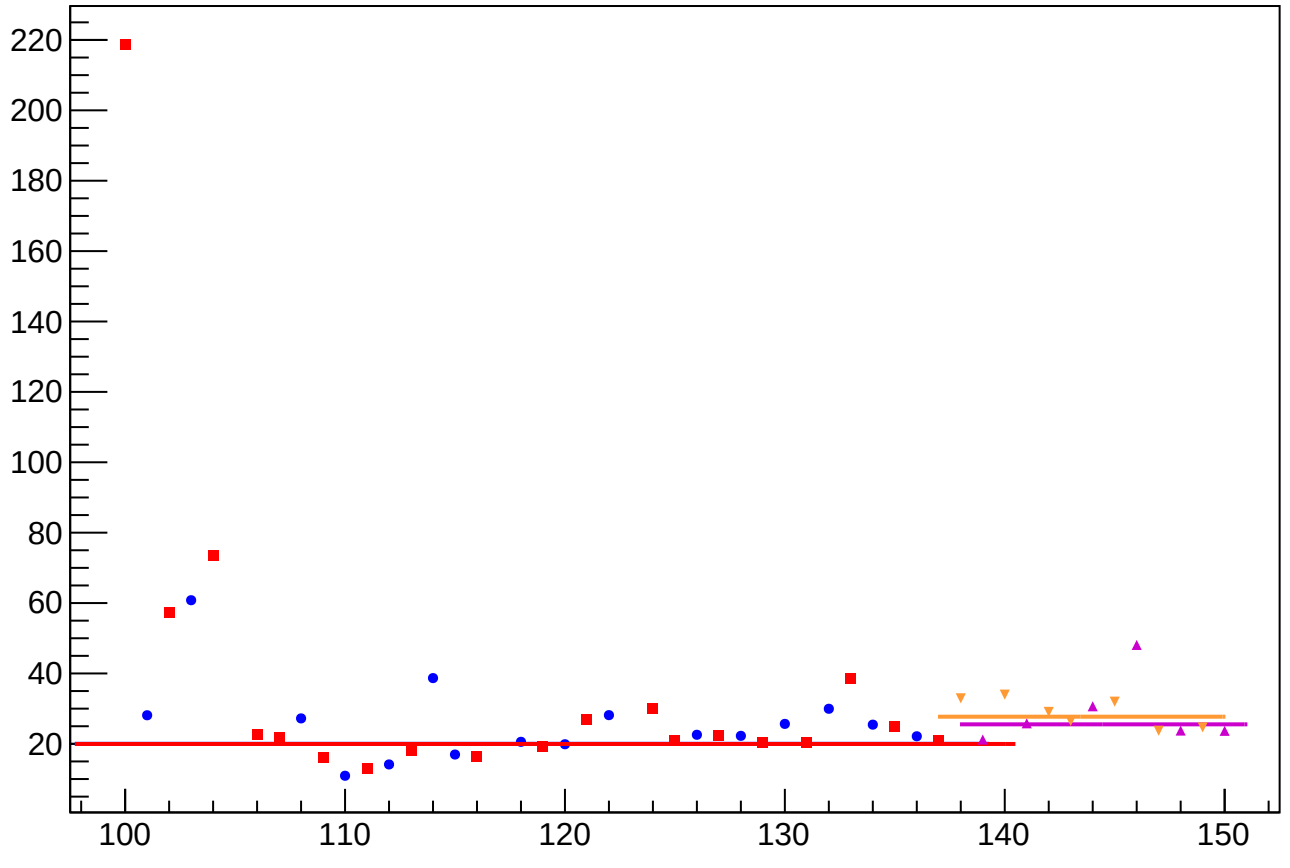
Left: 0.003+/-0.008 $\chi^2$/NDF: 20.6/12

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.007+/-0.007 $\chi^2$/NDF:18.6/21

Out: -0.006+/-0.007 $\chi^2$/NDF:39.3/25

All: 0.000+/-0.005 $\chi^2$/NDF: 59.8/47




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 27.711+/-0.009 $\chi^2$/NDF:191087.2/6

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 25.541+/-0.008 $\chi^2$/NDF:493081.4/5

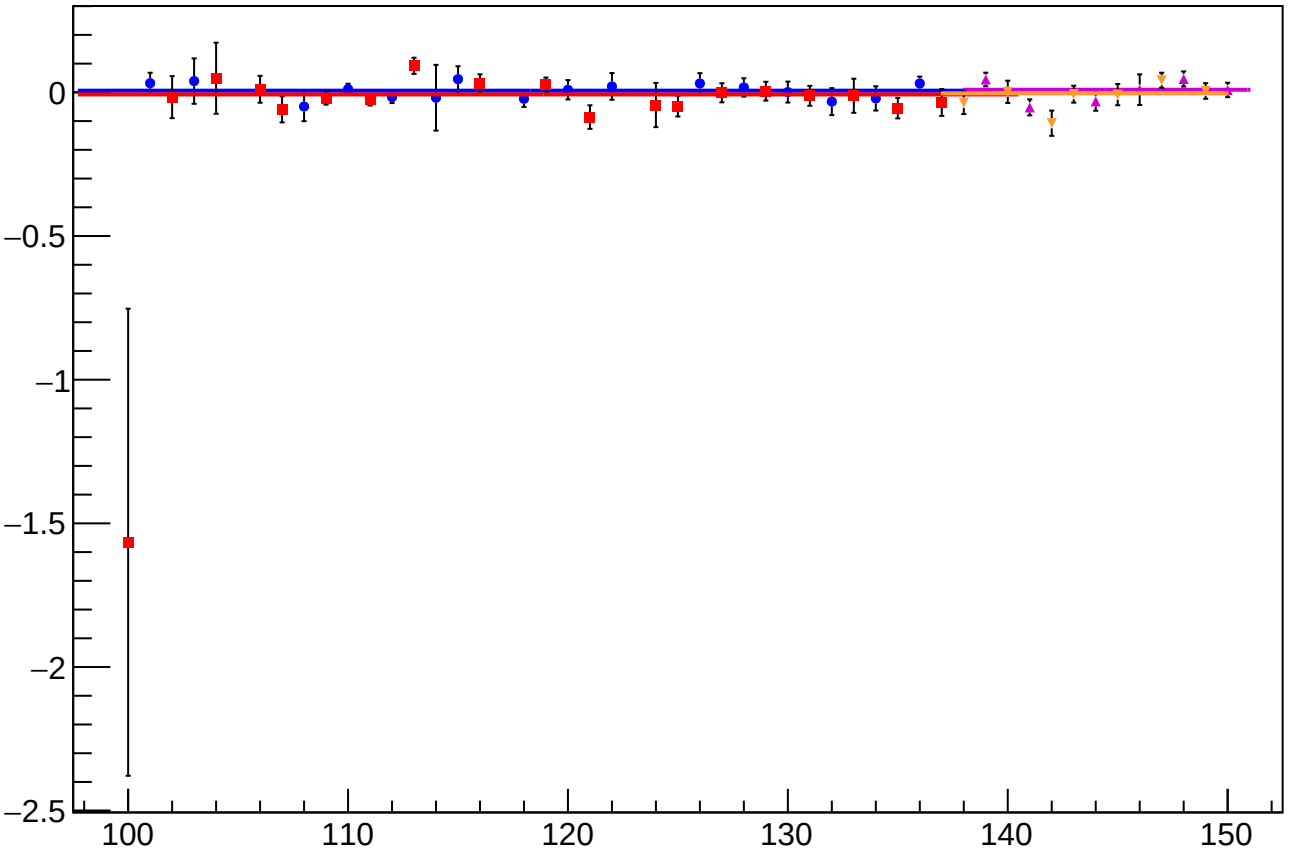
Left: 26.562+/-0.006 $\chi^2$/NDF: 716761.7/12

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 21.824+/-0.005 $\chi^2$/NDF:2437551.3/21

Out: 22.286+/-0.005 $\chi^2$/NDF:2457471.1/25

All: 22.053+/-0.003 $\chi^2$/NDF: 4899727.2/47




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.004+/-0.012 $\chi^2$/NDF:9.4/6

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.009+/-0.012 $\chi^2$/NDF:10.6/5

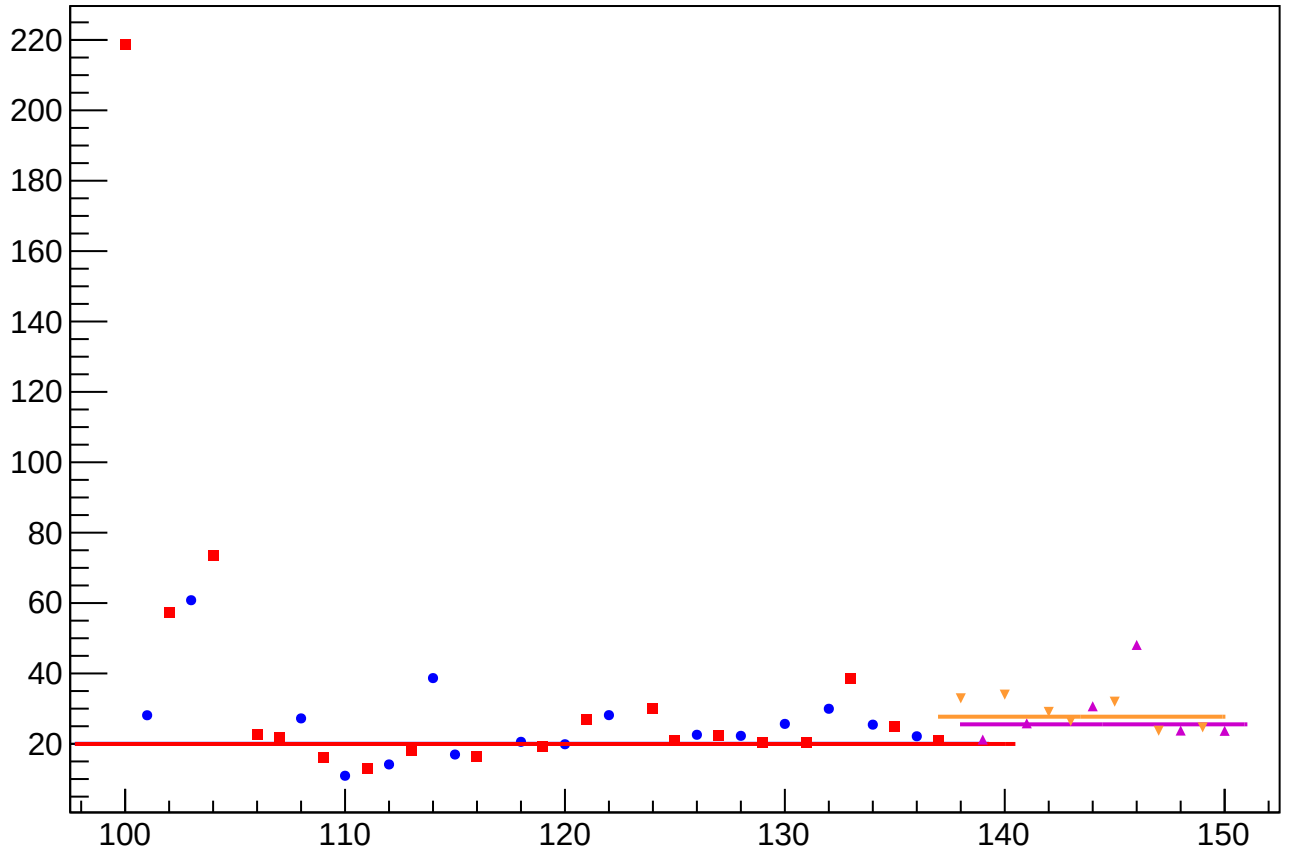
Left: 0.003+/-0.008 $\chi^2$/NDF: 20.6/12

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.007+/-0.007 $\chi^2$/NDF:18.6/21

Out: -0.006+/-0.007 $\chi^2$/NDF:39.3/25

All: 0.000+/-0.005 $\chi^2$/NDF: 59.8/47




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 27.711+/-0.009 $\chi^2$/NDF:191087.2/6

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 25.541+/-0.008 $\chi^2$/NDF:493081.4/5

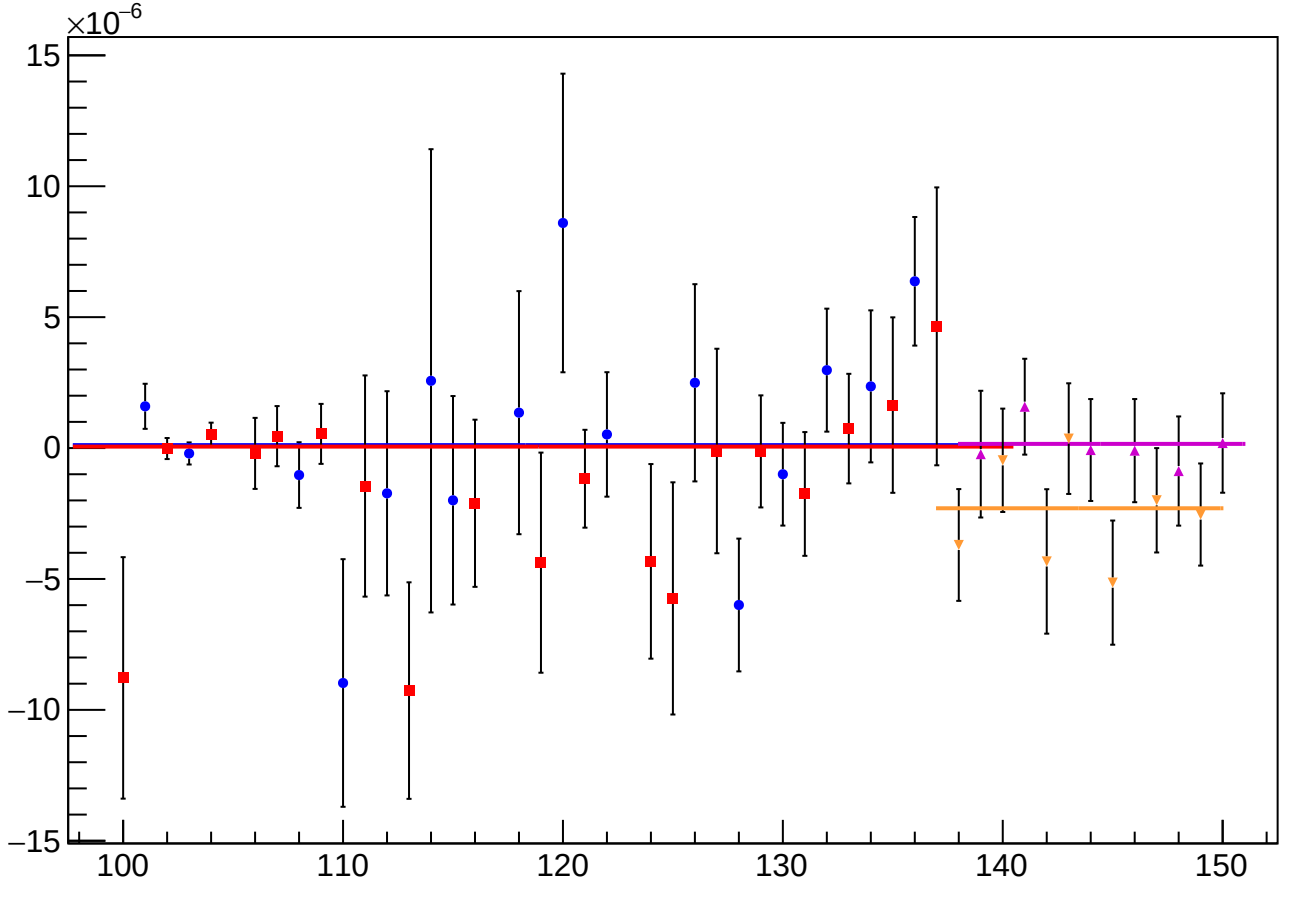
Left: 26.562+/-0.006 $\chi^2$/NDF: 716761.7/12

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 21.824+/-0.005 $\chi^2$/NDF:2437551.3/21

Out: 22.286+/-0.005 $\chi^2$/NDF:2457471.1/25

All: 22.053+/-0.003 $\chi^2$/NDF: 4899727.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/5

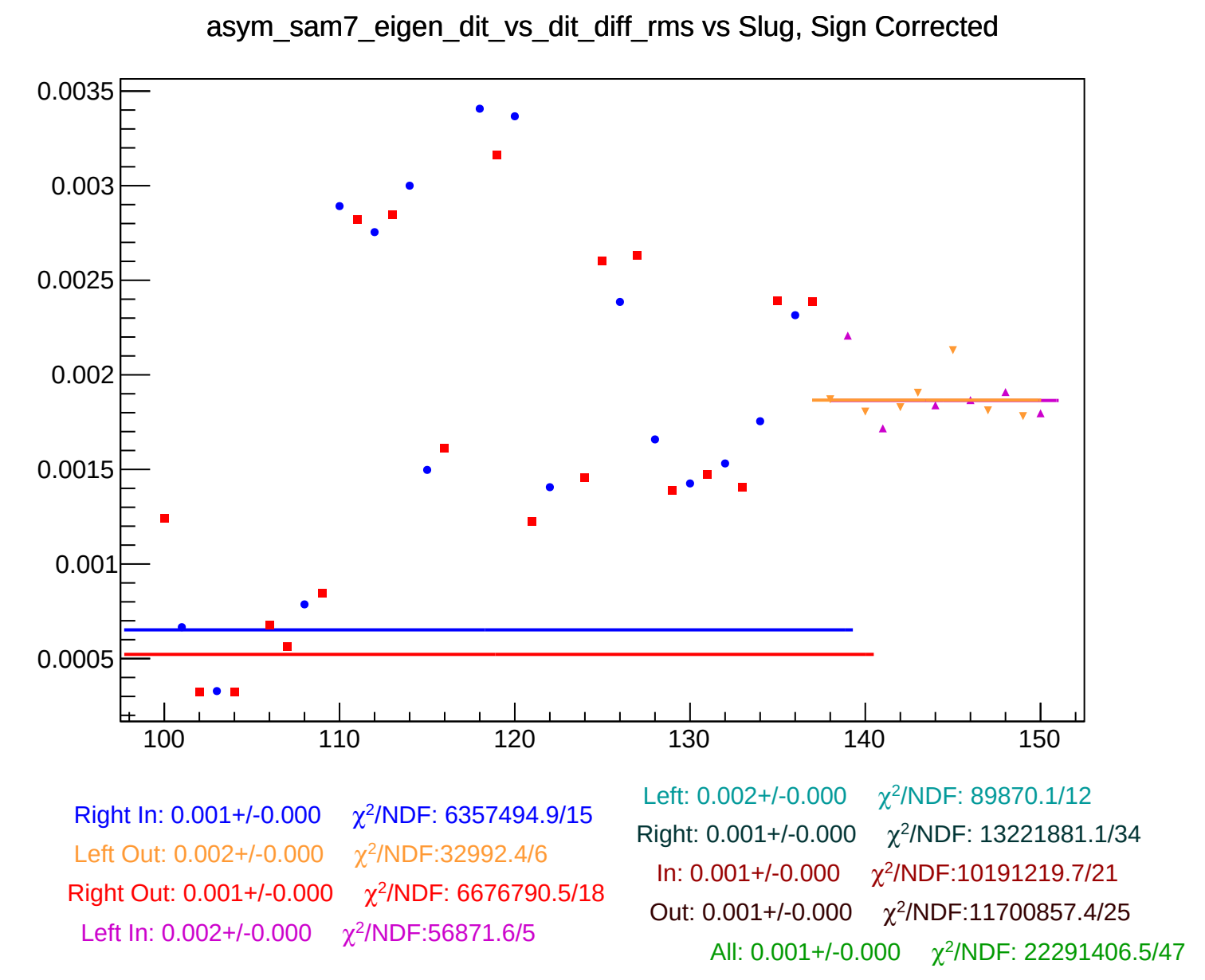
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.4/12

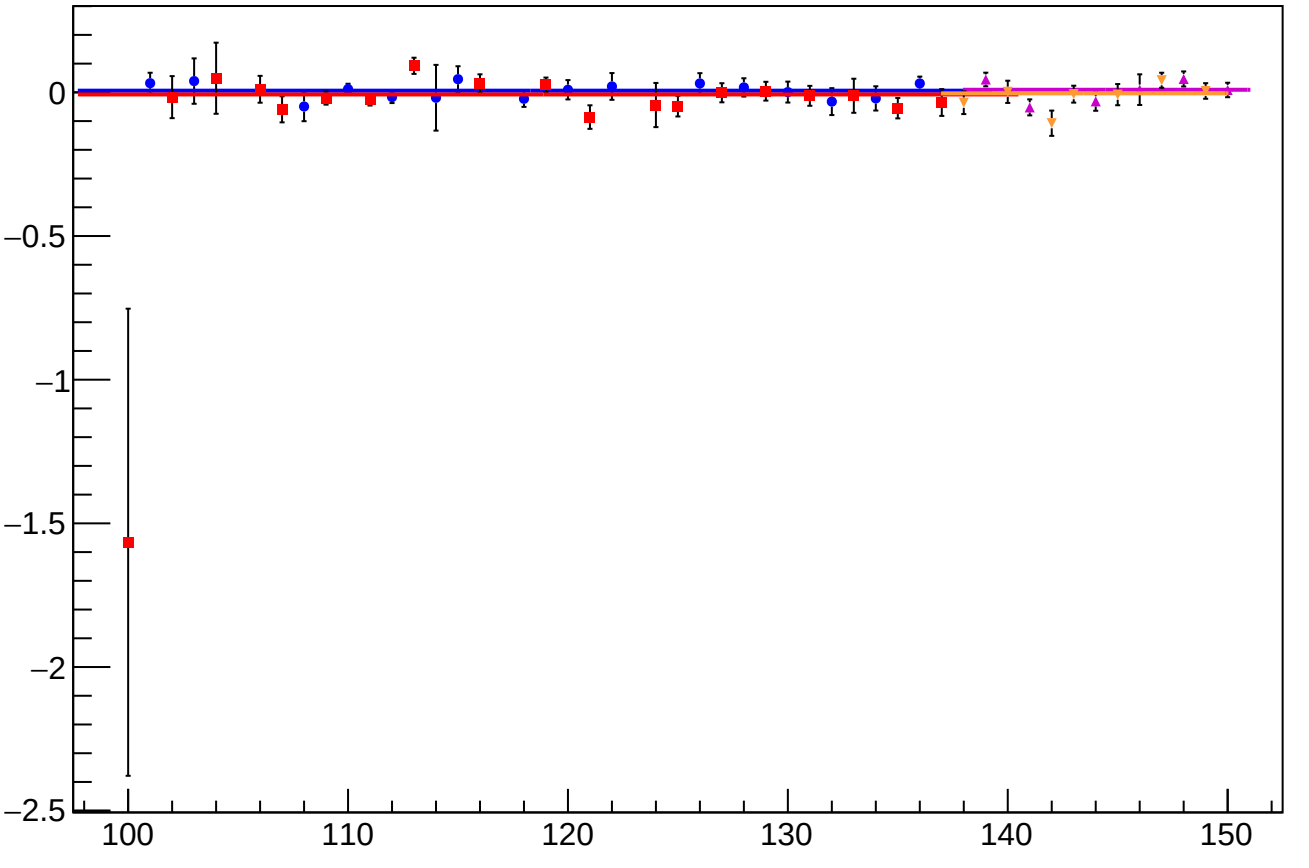
Right: 0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:27.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.1/47


asym_sam7_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
110
120
130
140
150
Right In: 0.001+/-0.000 χ²/NDF: 6357494.9/15
Left Out: 0.002+/-0.000 χ²/NDF:32992.4/6
Right Out: 0.001+/-0.000 χ²/NDF: 6676790.5/18
Left In: 0.002+/-0.000 χ²/NDF:56871.6/5
Left: 0.002+/-0.000 χ²/NDF: 89870.1/12
Right: 0.001+/-0.000 χ²/NDF: 13221881.1/34
In: 0.001+/-0.000 χ²/NDF:10191219.7/21
Out: 0.001+/-0.000 χ²/NDF:11700857.4/25
All: 0.001+/-0.000 χ²/NDF: 22291406.5/47




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.004+/-0.012 $\chi^2$/NDF:9.4/6

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.009+/-0.012 $\chi^2$/NDF:10.6/5

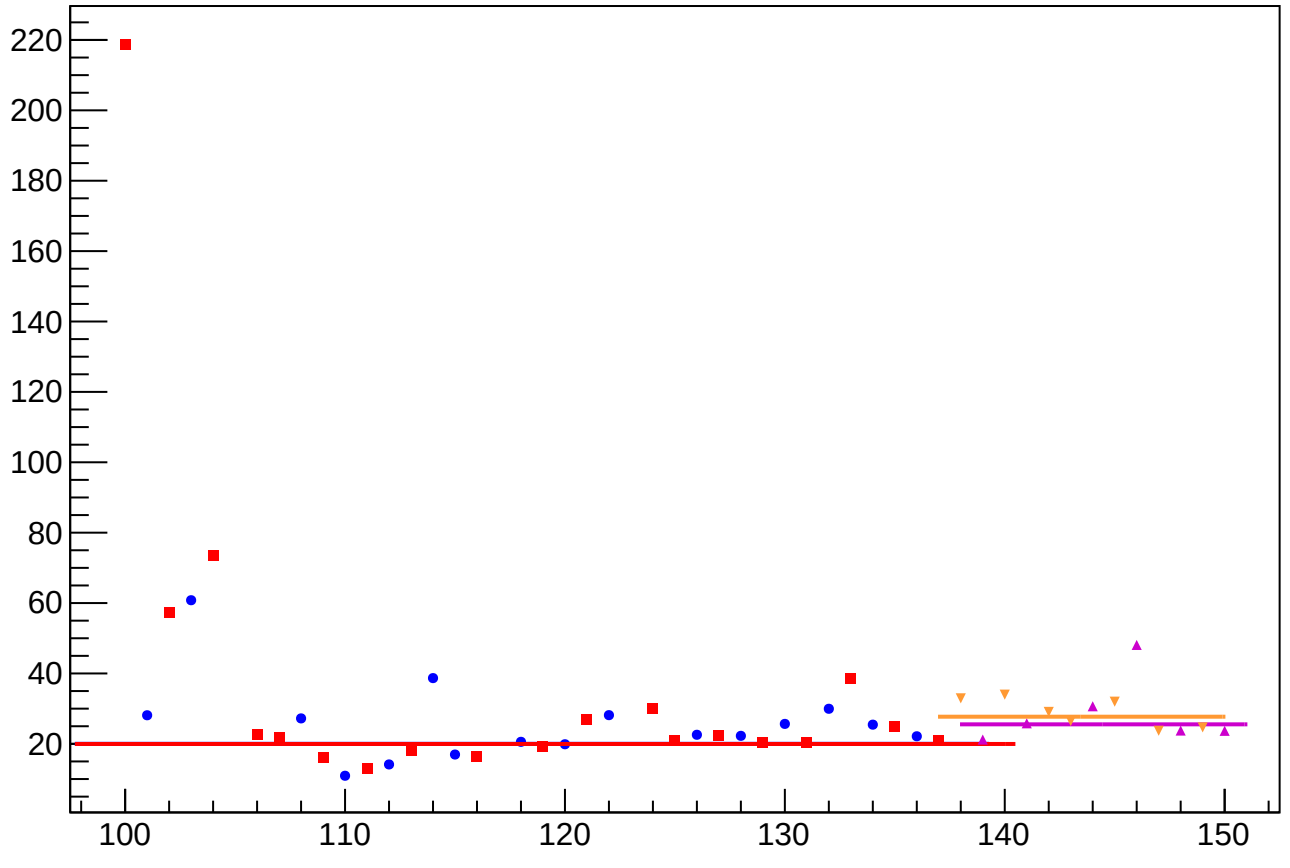
Left: 0.003+/-0.008 $\chi^2$/NDF: 20.6/12

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.007+/-0.007 $\chi^2$/NDF:18.6/21

Out: -0.006+/-0.007 $\chi^2$/NDF:39.3/25

All: 0.000+/-0.005 $\chi^2$/NDF: 59.8/47




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 27.711+/-0.009 $\chi^2$/NDF:191108.1/6

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 25.541+/-0.008 $\chi^2$/NDF:493092.4/5

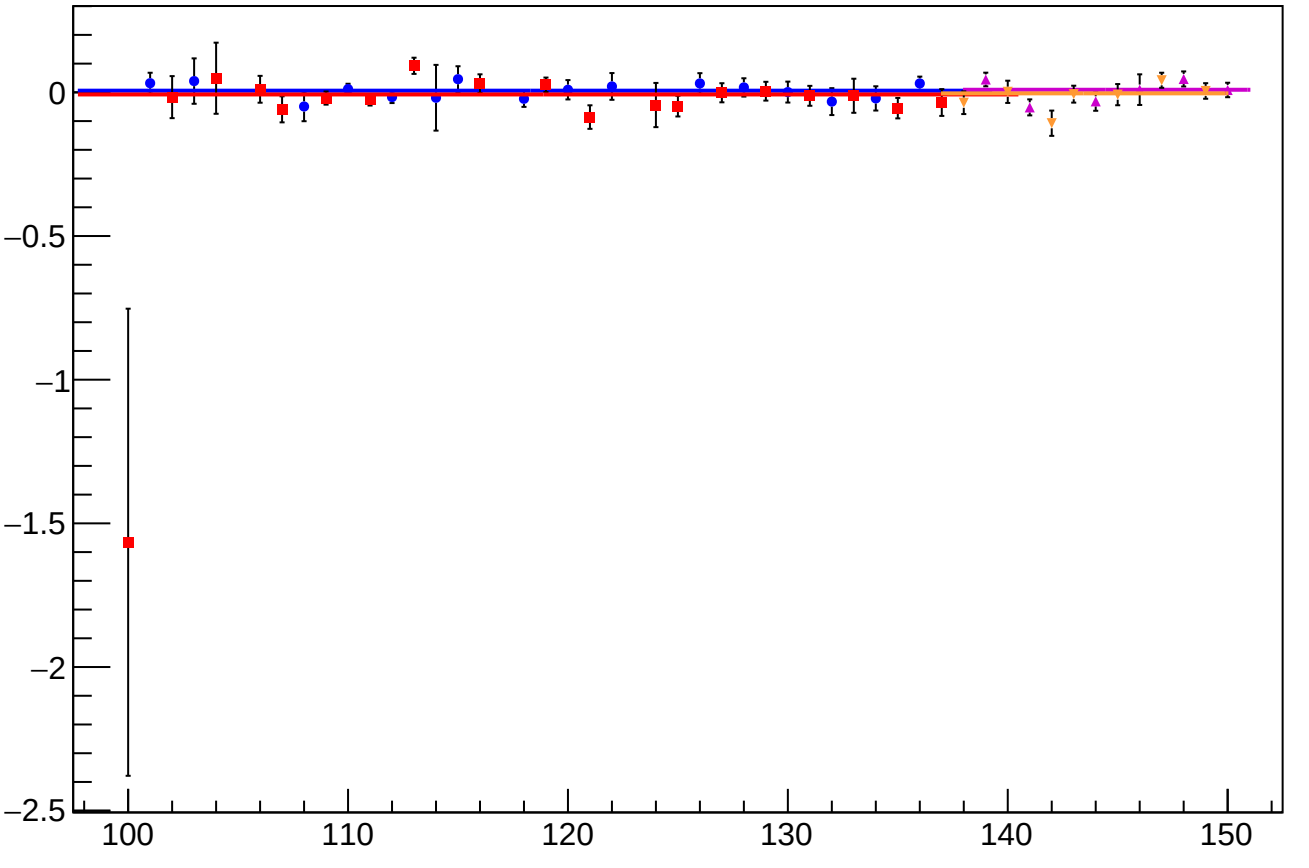
Left: 26.562+/-0.006 $\chi^2$/NDF: 716795.3/12

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 21.825+/-0.005 $\chi^2$/NDF:2437326.5/21

Out: 22.286+/-0.005 $\chi^2$/NDF:2457406.1/25

All: 22.053+/-0.003 $\chi^2$/NDF: 4899432.5/47




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.004+/-0.012 $\chi^2$/NDF:9.4/6

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.009+/-0.012 $\chi^2$/NDF:10.6/5

Left: 0.003+/-0.008 $\chi^2$/NDF: 20.6/12

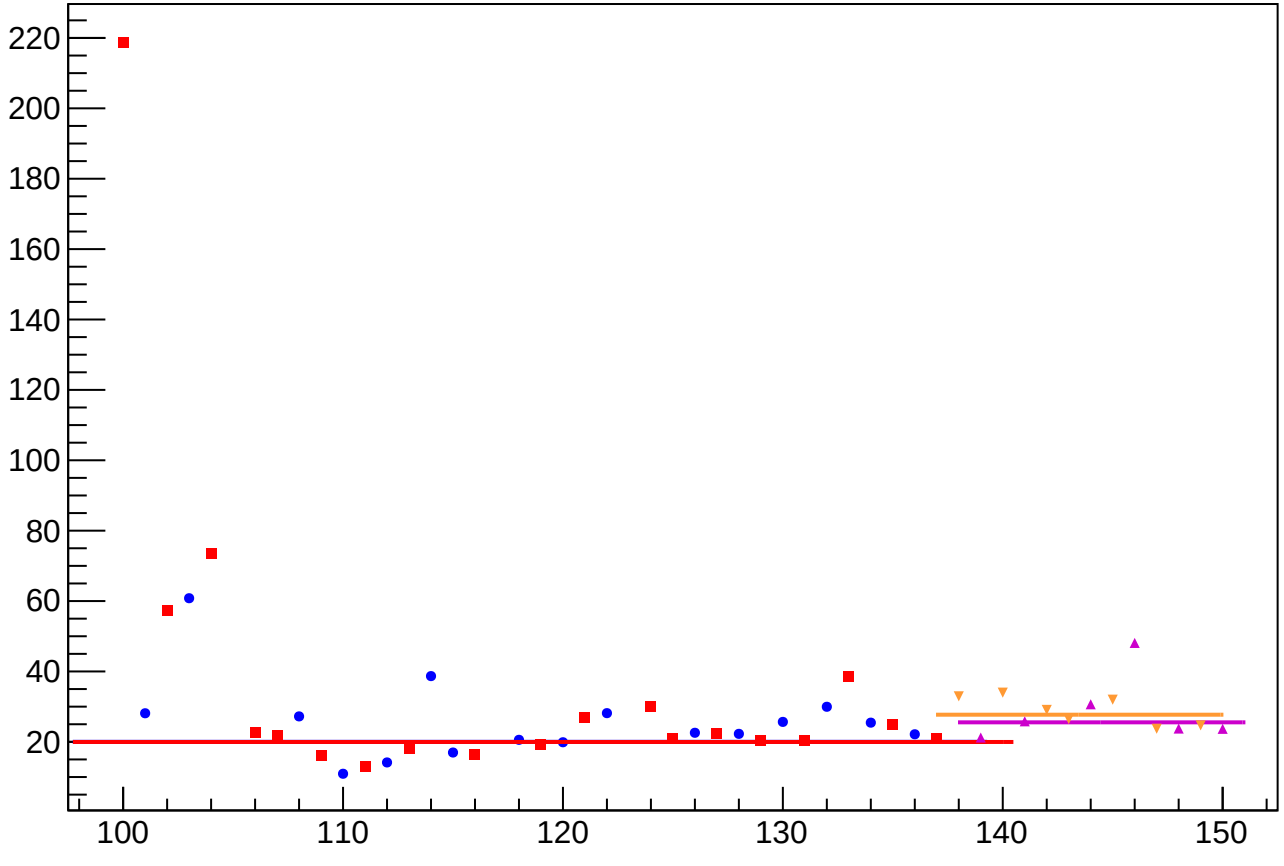
Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.007+/-0.007 $\chi^2$/NDF:18.6/21

Out: -0.006+/-0.007 $\chi^2$/NDF:39.3/25

All: 0.000+/-0.005 $\chi^2$/NDF: 59.8/47

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 27.711+/-0.009 $\chi^2$/NDF:191108.1/6

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 25.541+/-0.008 $\chi^2$/NDF:493092.4/5

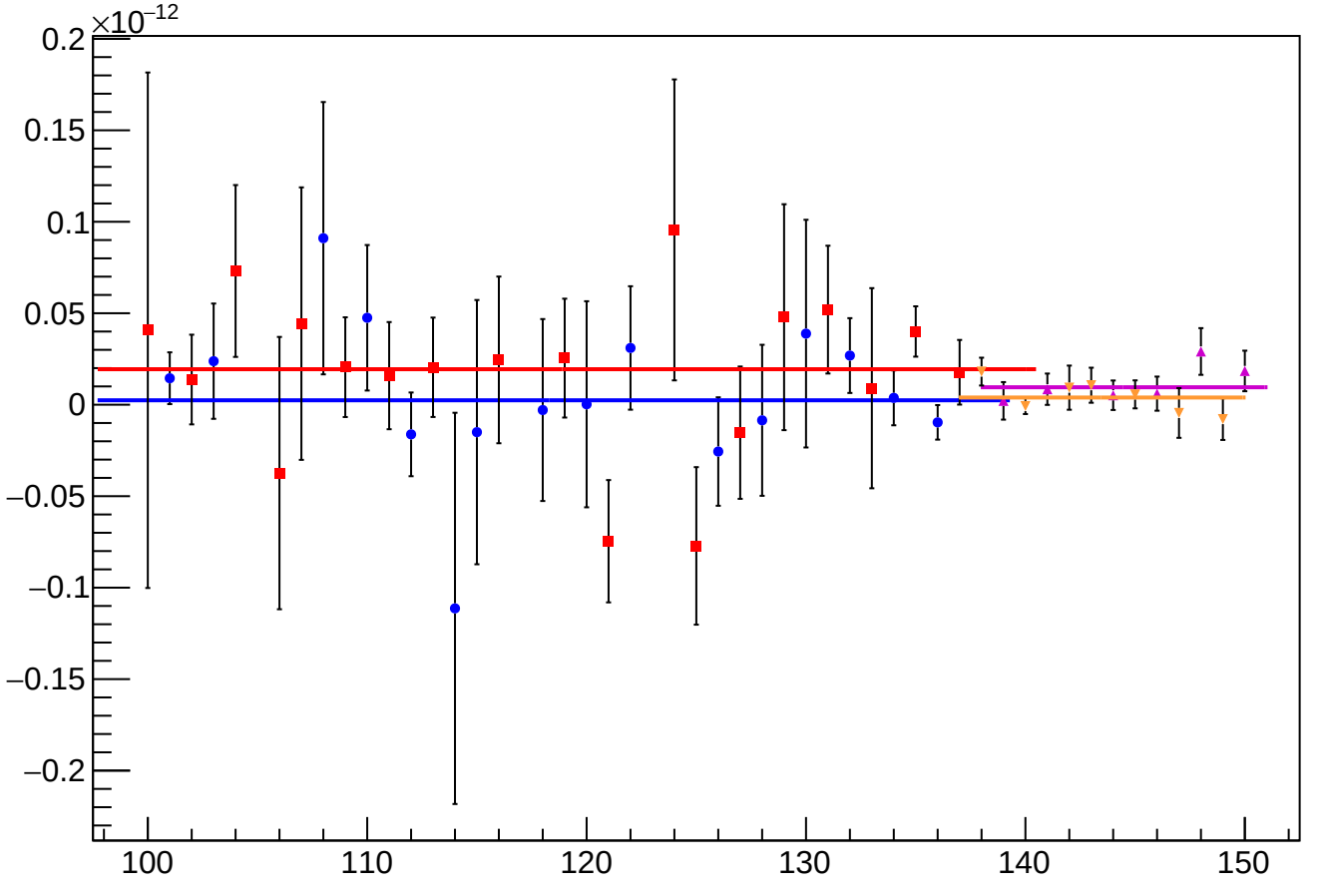
Left: 26.562+/-0.006 $\chi^2$/NDF: 716795.3/12

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 21.825+/-0.005 $\chi^2$/NDF:2437326.5/21

Out: 22.286+/-0.005 $\chi^2$/NDF:2457406.1/25

All: 22.053+/-0.003 $\chi^2$/NDF: 4899432.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.0/5

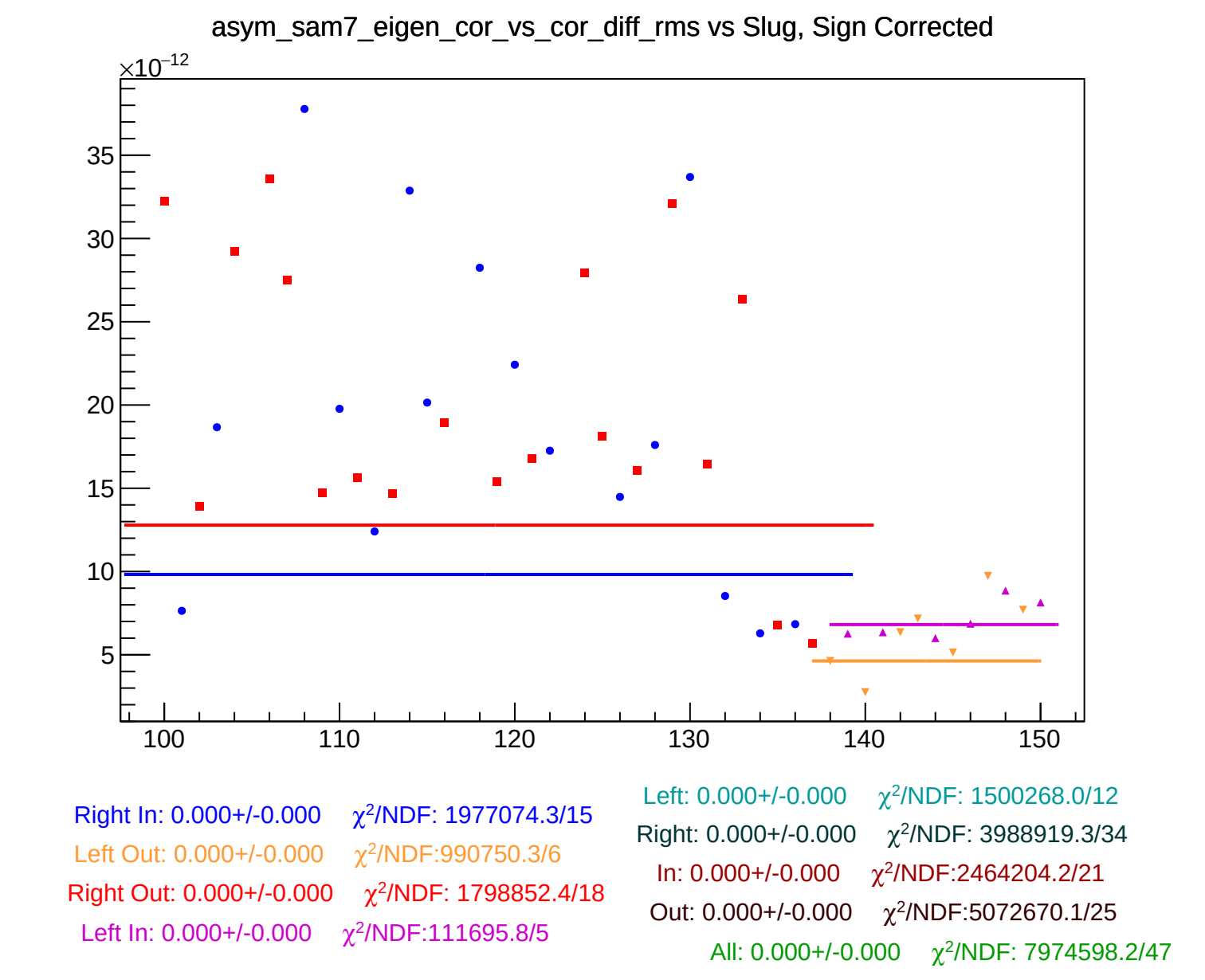
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.6/34

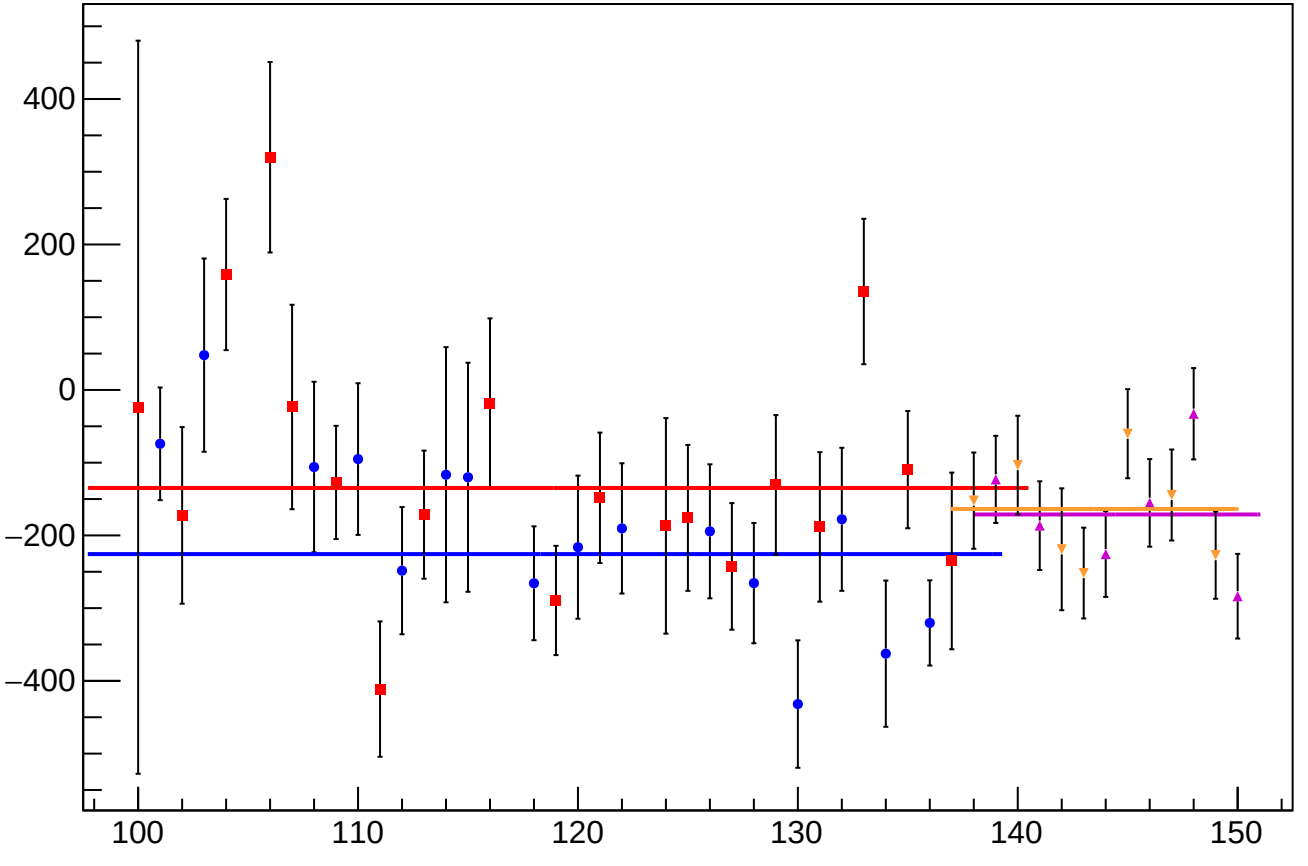
In: 0.000+/-0.000 $\chi^2$/NDF:15.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:31.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 47.1/47


asym_sam7_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1977074.3/15
Left Out: 0.000+/-0.000 χ²/NDF:990750.3/6
Right Out: 0.000+/-0.000 χ²/NDF: 1798852.4/18
Left In: 0.000+/-0.000 χ²/NDF:111695.8/5
Left: 0.000+/-0.000 χ²/NDF: 1500268.0/12
Right: 0.000+/-0.000 χ²/NDF: 3988919.3/34
In: 0.000+/-0.000 χ²/NDF:2464204.2/21
Out: 0.000+/-0.000 χ²/NDF:5072670.1/25
All: 0.000+/-0.000 χ²/NDF: 7974598.2/47

# reg_asym_sam8_mean vs Slug, Sign Corrected




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -163.584+/-24.656 $\chi^2$/NDF:7.3/6

Right Out: -134.762+/-23.192 $\chi^2$/NDF: 45.3/18

Left In: -171.213+/-24.543 $\chi^2$/NDF:10.2/5

Left: -167.416+/-17.395 $\chi^2$/NDF: 17.6/12

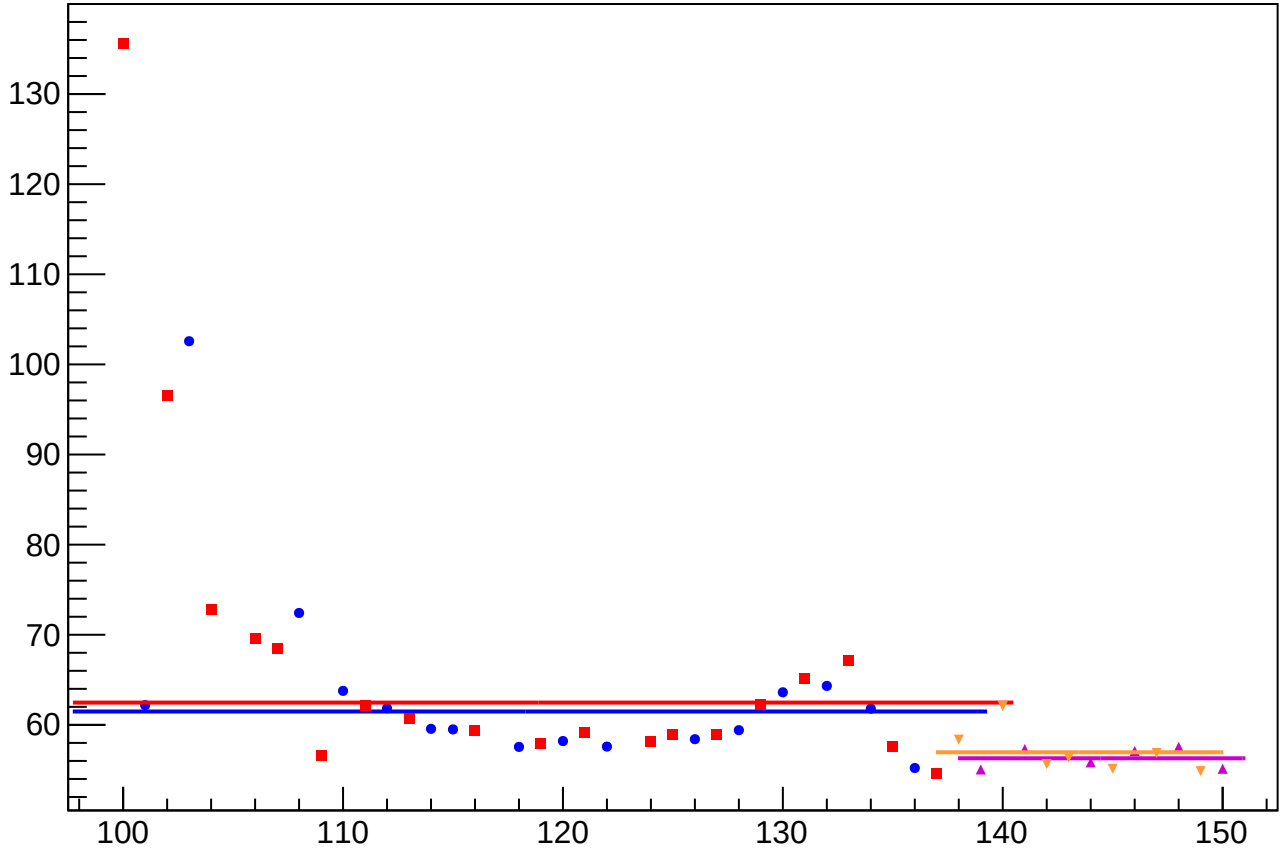
Right: -180.371+/-16.373 $\chi^2$/NDF: 75.6/34

In: -200.079+/-16.828 $\chi^2$/NDF:35.4/21

Out: -148.292+/-16.893 $\chi^2$/NDF:53.3/25

All: -174.285+/-11.922 $\chi^2$/NDF: 93.5/47

# reg_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250669.2/15

Left Out: 56.962+/-0.017 $\chi^2$/NDF:17219.0/6

Right Out: 62.476+/-0.016 $\chi^2$/NDF: 281148.3/18

Left In: 56.294+/-0.017 $\chi^2$/NDF:3508.6/5

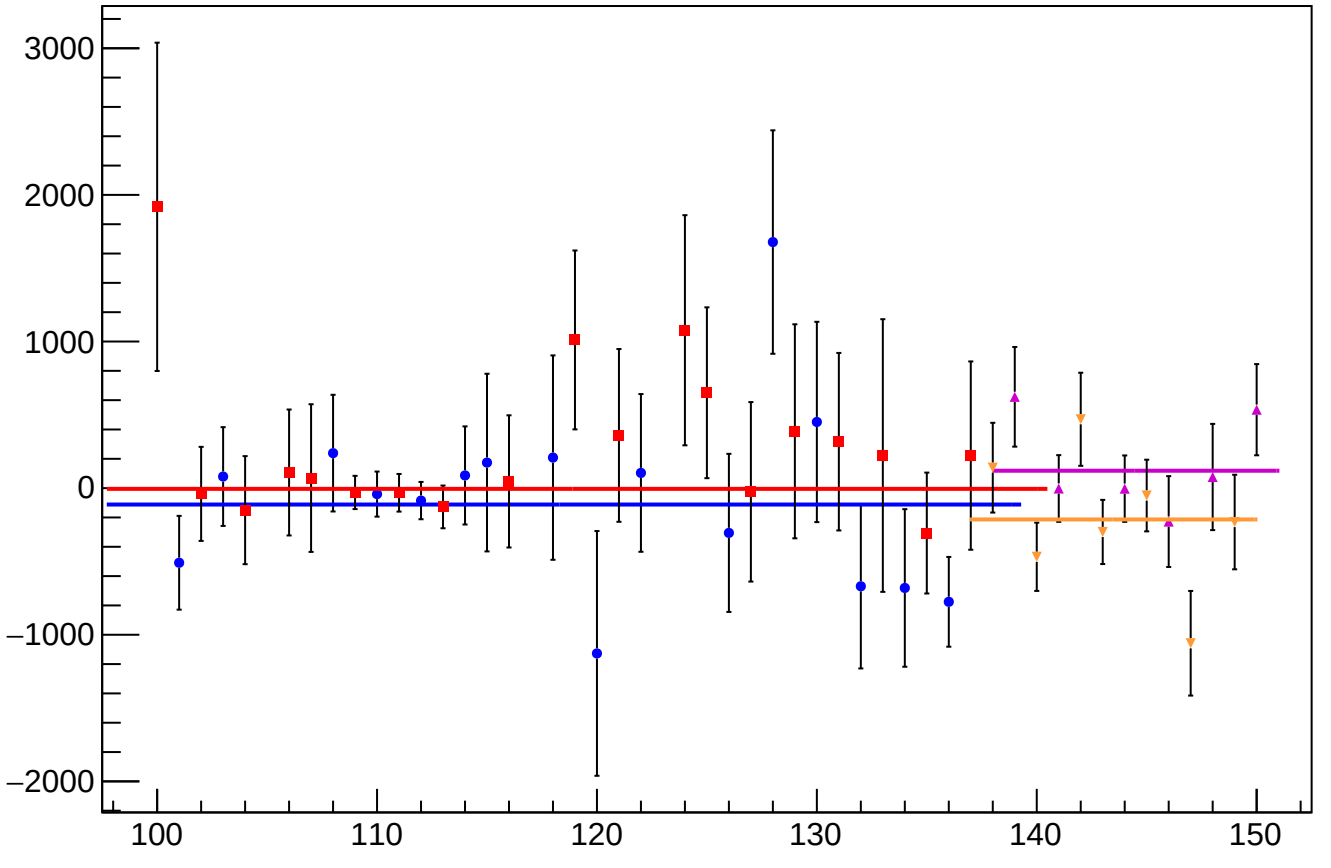
Left: 56.627+/-0.012 $\chi^2$/NDF: 21463.1/12

Right: 61.979+/-0.012 $\chi^2$/NDF: 533645.0/34

In: 59.045+/-0.012 $\chi^2$/NDF:301590.9/21

Out: 59.887+/-0.012 $\chi^2$/NDF:351440.2/25

All: 59.465+/-0.008 $\chi^2$/NDF: 655525.5/47




Right In: -111.885+/-76.212 $\chi^2$/NDF: 18.5/15

Left Out: -213.580+/-103.057 $\chi^2$/NDF:13.4/6

Right Out: -4.893+/-63.933 $\chi^2$/NDF: 11.6/18

Left In: 118.763+/-114.796 $\chi^2$/NDF:5.8/5

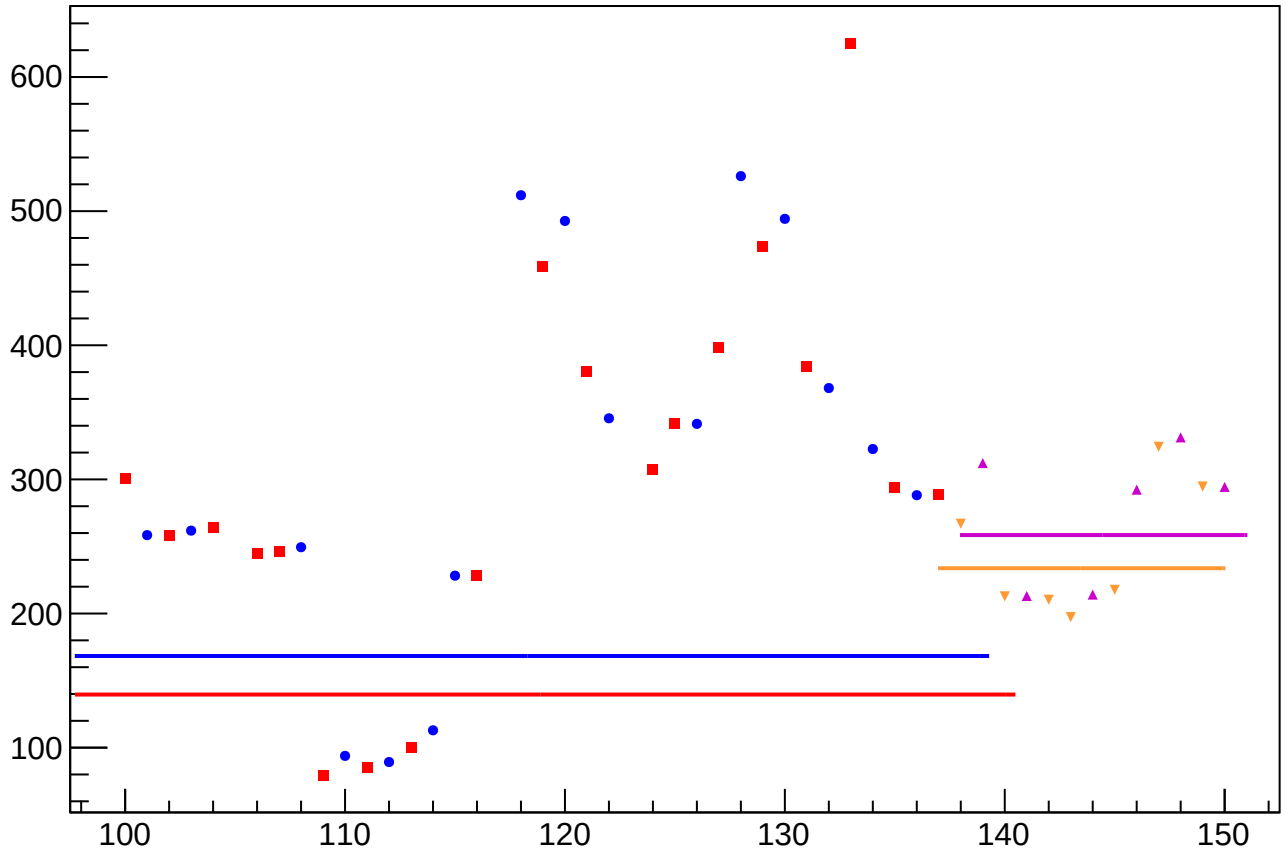
Left: -65.266+/-76.688 $\chi^2$/NDF: 23.8/12

Right: -49.085+/-48.981 $\chi^2$/NDF: 31.3/34

In: -41.325+/-63.494 $\chi^2$/NDF:27.1/21

Out: -62.887+/-54.328 $\chi^2$/NDF:28.0/25

All: -53.773+/-41.279 $\chi^2$/NDF: 55.1/47




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544046.8/15

Left Out: 233.775+/-0.073 $\chi^2$/NDF:315025.6/6

Right Out: 139.594+/-0.045 $\chi^2$/NDF: 5154153.5/18

Left In: 258.504+/-0.081 $\chi^2$/NDF:337851.5/5

Left: 244.811+/-0.054 $\chi^2$/NDF: 704266.5/12

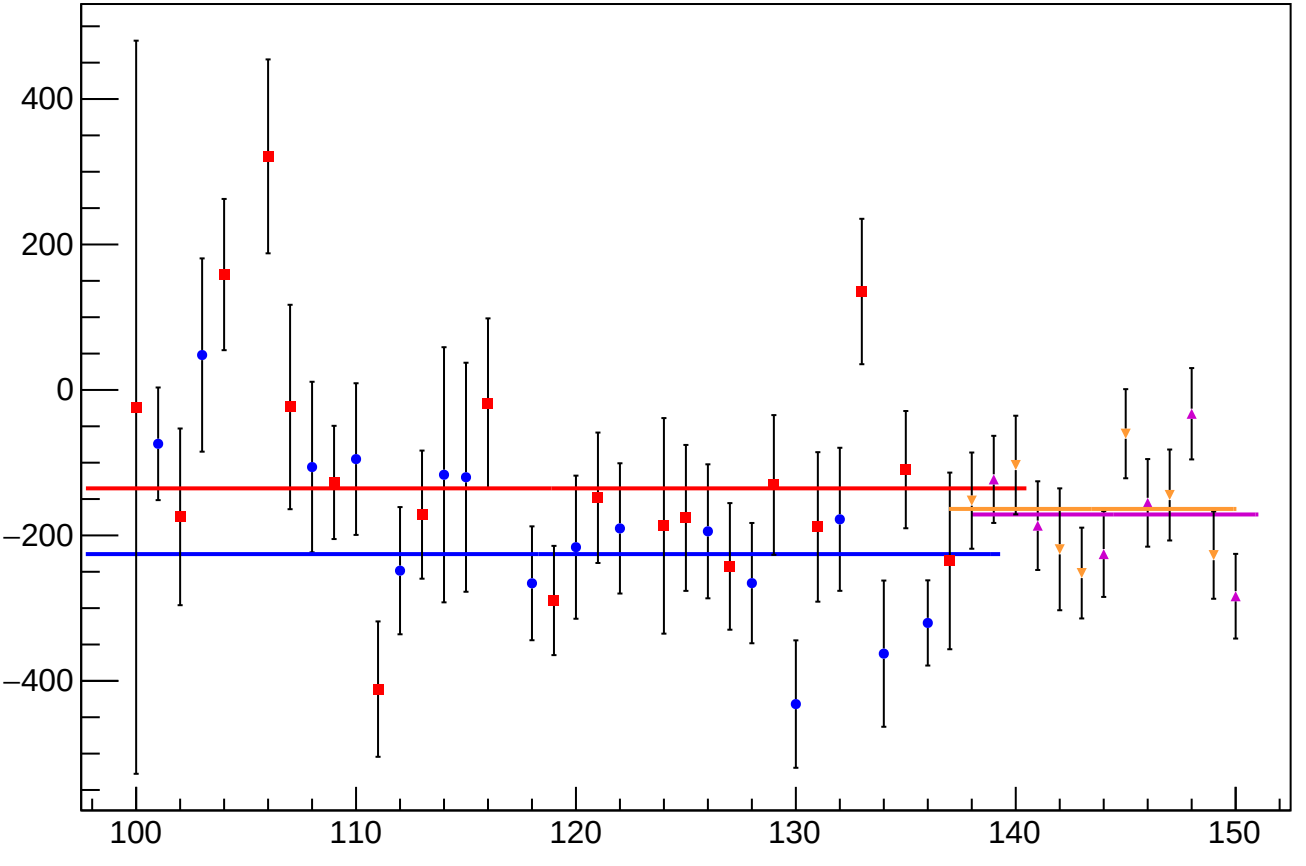
Right: 151.463+/-0.035 $\chi^2$/NDF: 9865092.4/34

In: 195.915+/-0.045 $\chi^2$/NDF:5738437.2/21

Out: 165.767+/-0.038 $\chi^2$/NDF:6675339.7/25

All: 178.510+/-0.029 $\chi^2$/NDF: 12674112.6/47

# cor_asym_sam8_mean vs Slug, Sign Corrected




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -163.580+/-24.656 $\chi^2$/NDF:7.3/6

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -171.210+/-24.543 $\chi^2$/NDF:10.2/5

Left: -167.413+/-17.395 $\chi^2$/NDF: 17.6/12

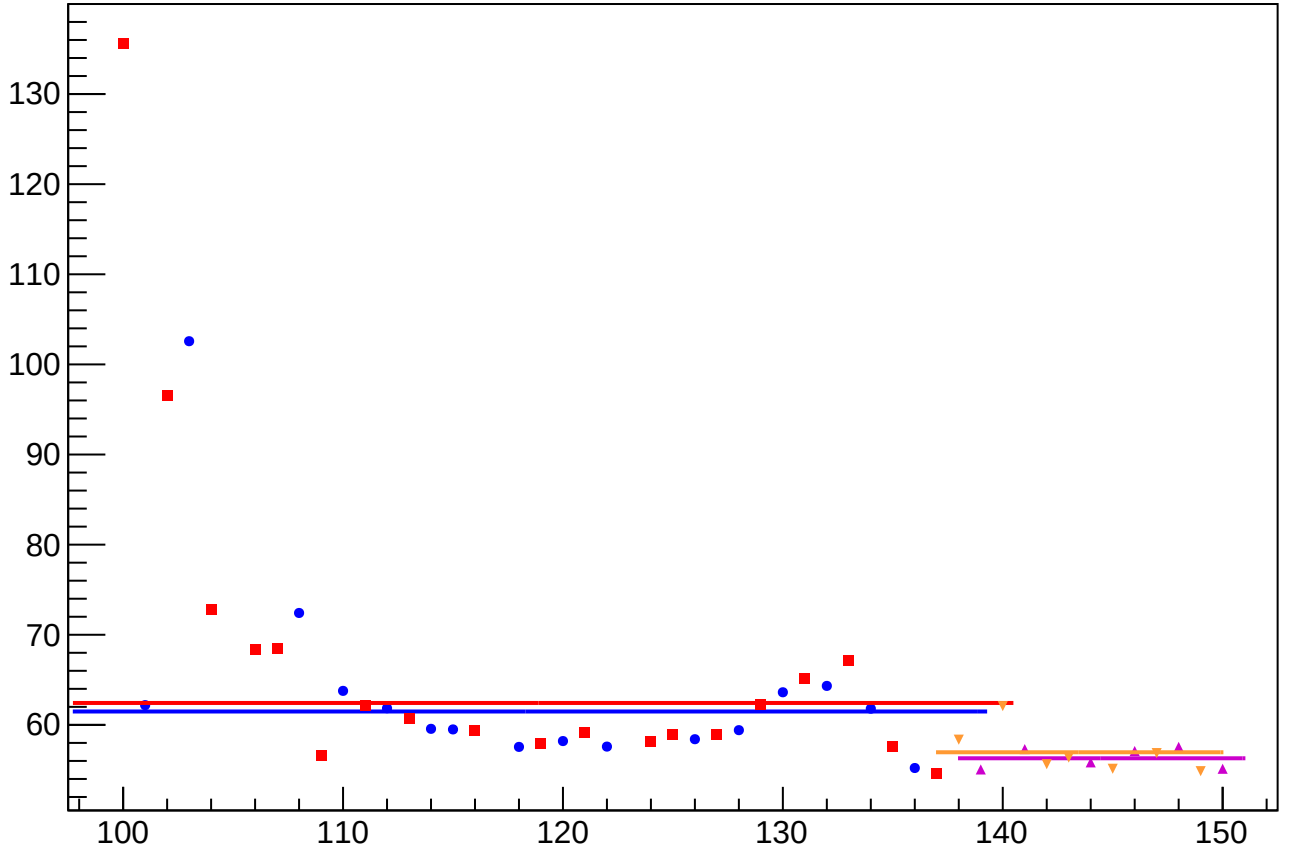
Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -200.078+/-16.828 $\chi^2$/NDF:35.5/21

Out: -148.589+/-16.898 $\chi^2$/NDF:52.9/25

All: -174.440+/-11.924 $\chi^2$/NDF: 93.0/47

# cor_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 56.962+/-0.017 $\chi^2$/NDF:17219.0/6

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 56.294+/-0.017 $\chi^2$/NDF:3508.6/5

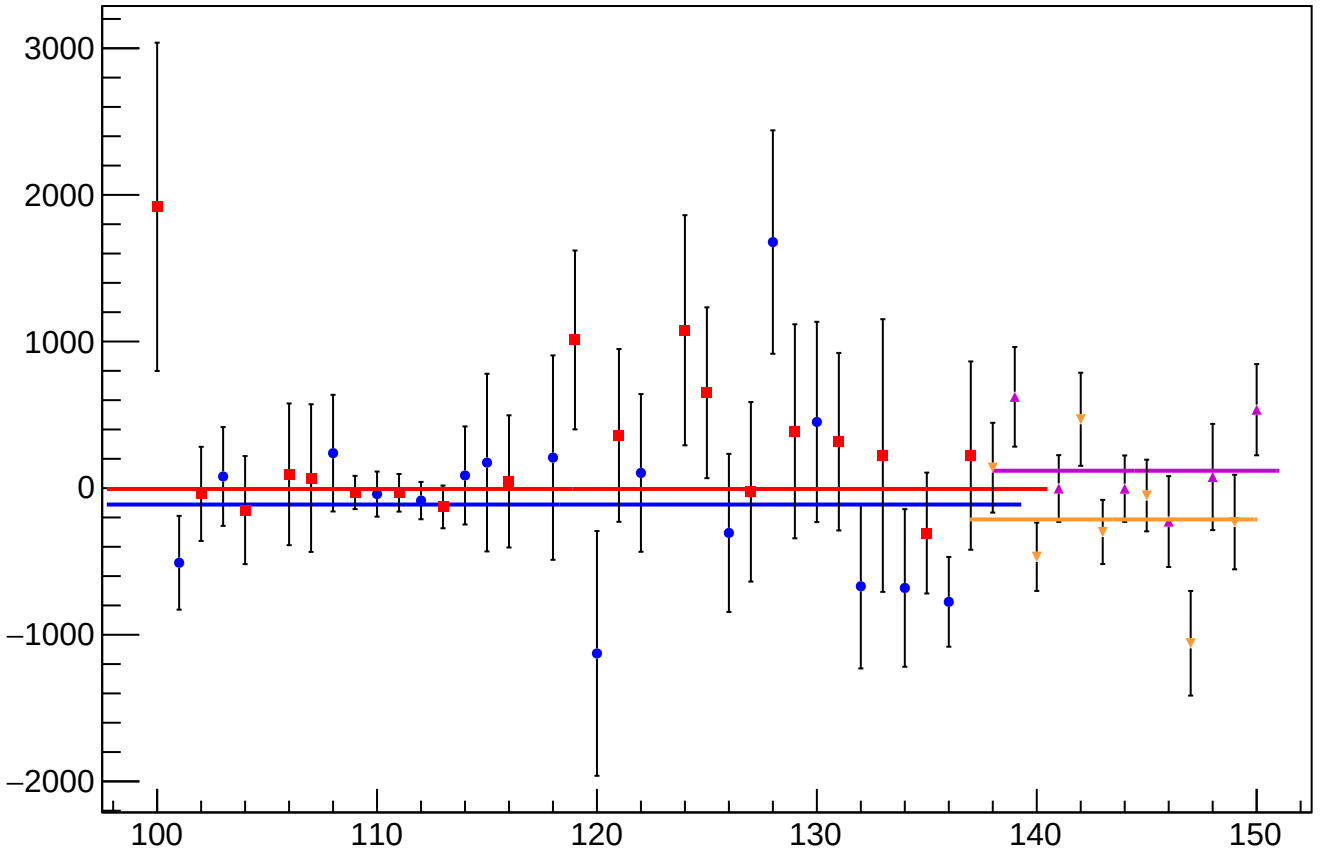
Left: 56.627+/-0.012 $\chi^2$/NDF: 21463.1/12

Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.045+/-0.012 $\chi^2$/NDF:301593.5/21

Out: 59.863+/-0.012 $\chi^2$/NDF:348846.3/25

All: 59.452+/-0.008 $\chi^2$/NDF: 652790.8/47




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -213.577+/-103.057 $\chi^2$/NDF:13.4/6

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 118.762+/-114.796 $\chi^2$/NDF:5.8/5

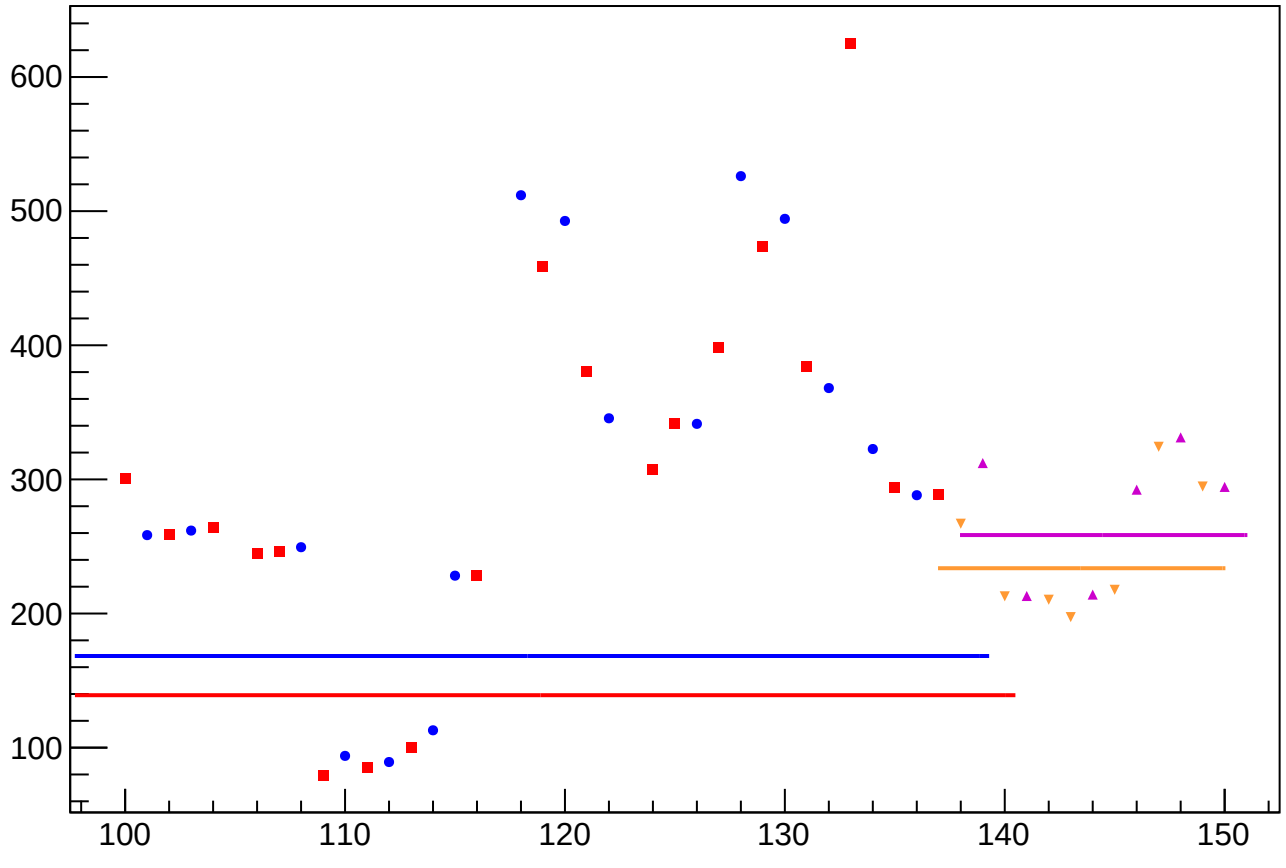
Left: -65.265+/-76.688 $\chi^2$/NDF: 23.8/12

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -41.312+/-63.494 $\chi^2$/NDF:27.1/21

Out: -63.607+/-54.421 $\chi^2$/NDF:27.9/25

All: -54.165+/-41.320 $\chi^2$/NDF: 55.1/47




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 233.775+/-0.073 $\chi^2$/NDF:315025.9/6

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 258.504+/-0.081 $\chi^2$/NDF:337851.3/5

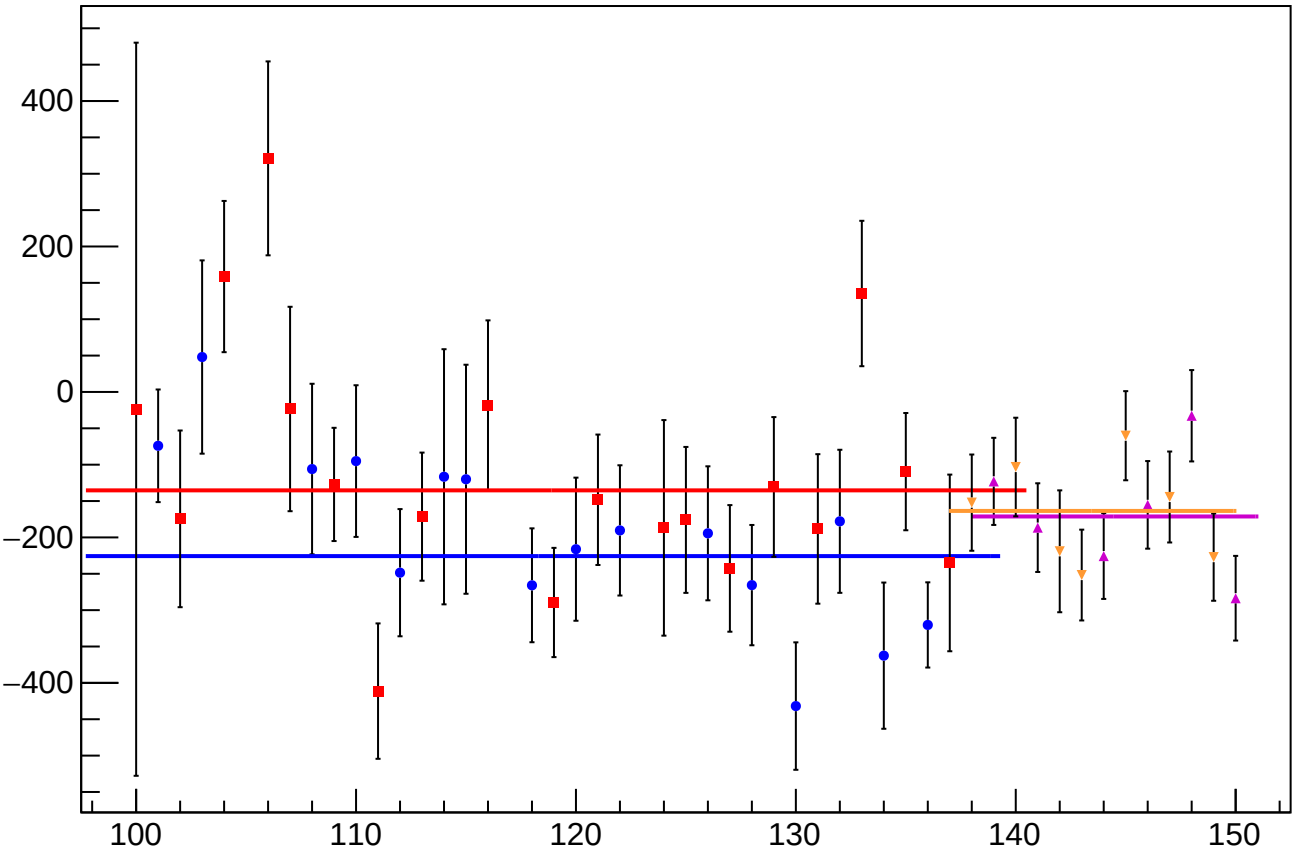
Left: 244.810+/-0.054 $\chi^2$/NDF: 704268.0/12

Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 195.916+/-0.045 $\chi^2$/NDF:5738484.8/21

Out: 165.504+/-0.038 $\chi^2$/NDF:6662134.8/25

All: 178.384+/-0.029 $\chi^2$/NDF: 12665131.6/47




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -163.580+/-24.656 $\chi^2$/NDF:7.3/6

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -171.210+/-24.543 $\chi^2$/NDF:10.2/5

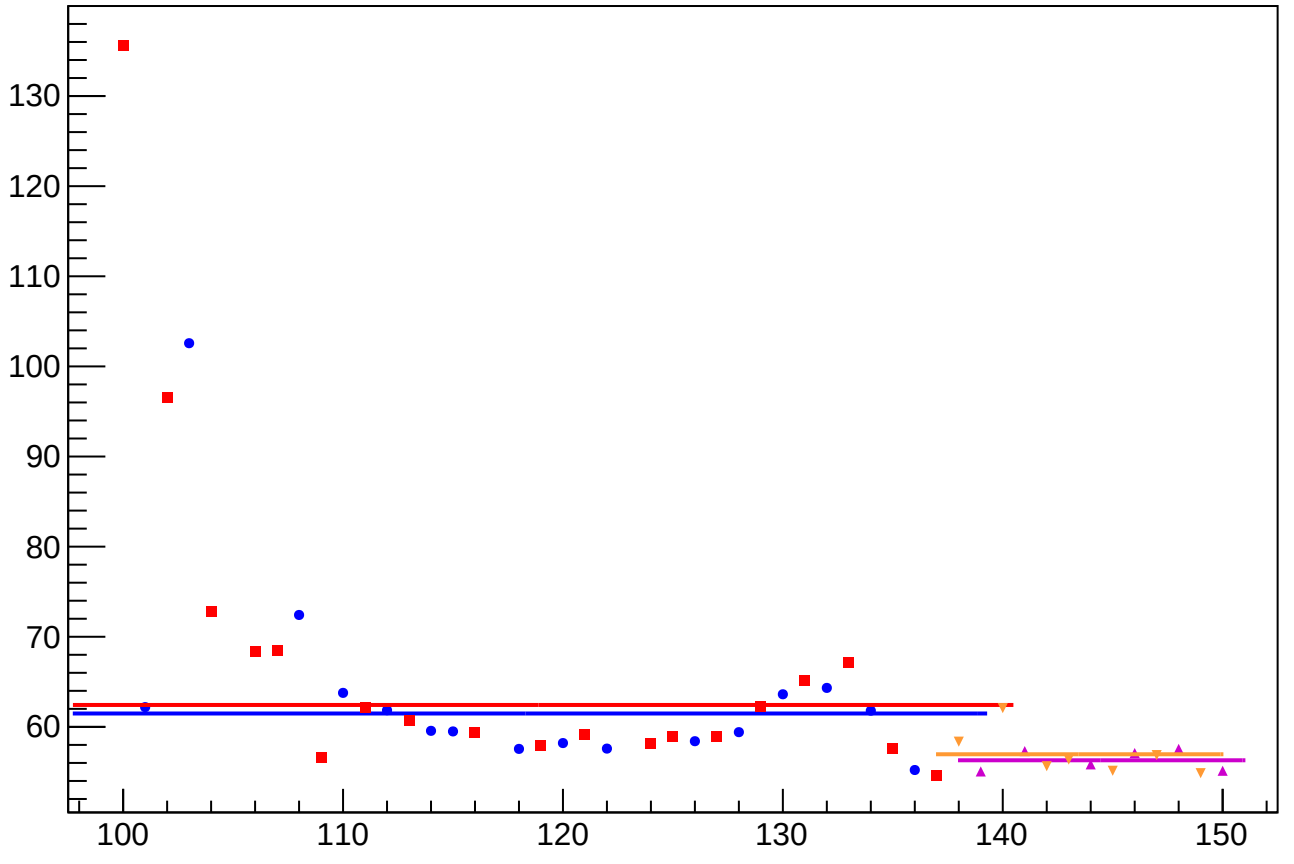
Left: -167.413+/-17.395 $\chi^2$/NDF: 17.6/12

Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -200.078+/-16.828 $\chi^2$/NDF:35.5/21

Out: -148.589+/-16.898 $\chi^2$/NDF:52.9/25

All: -174.440+/-11.924 $\chi^2$/NDF: 93.0/47




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 56.962+/-0.017 $\chi^2$/NDF:17219.0/6

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 56.294+/-0.017 $\chi^2$/NDF:3508.6/5

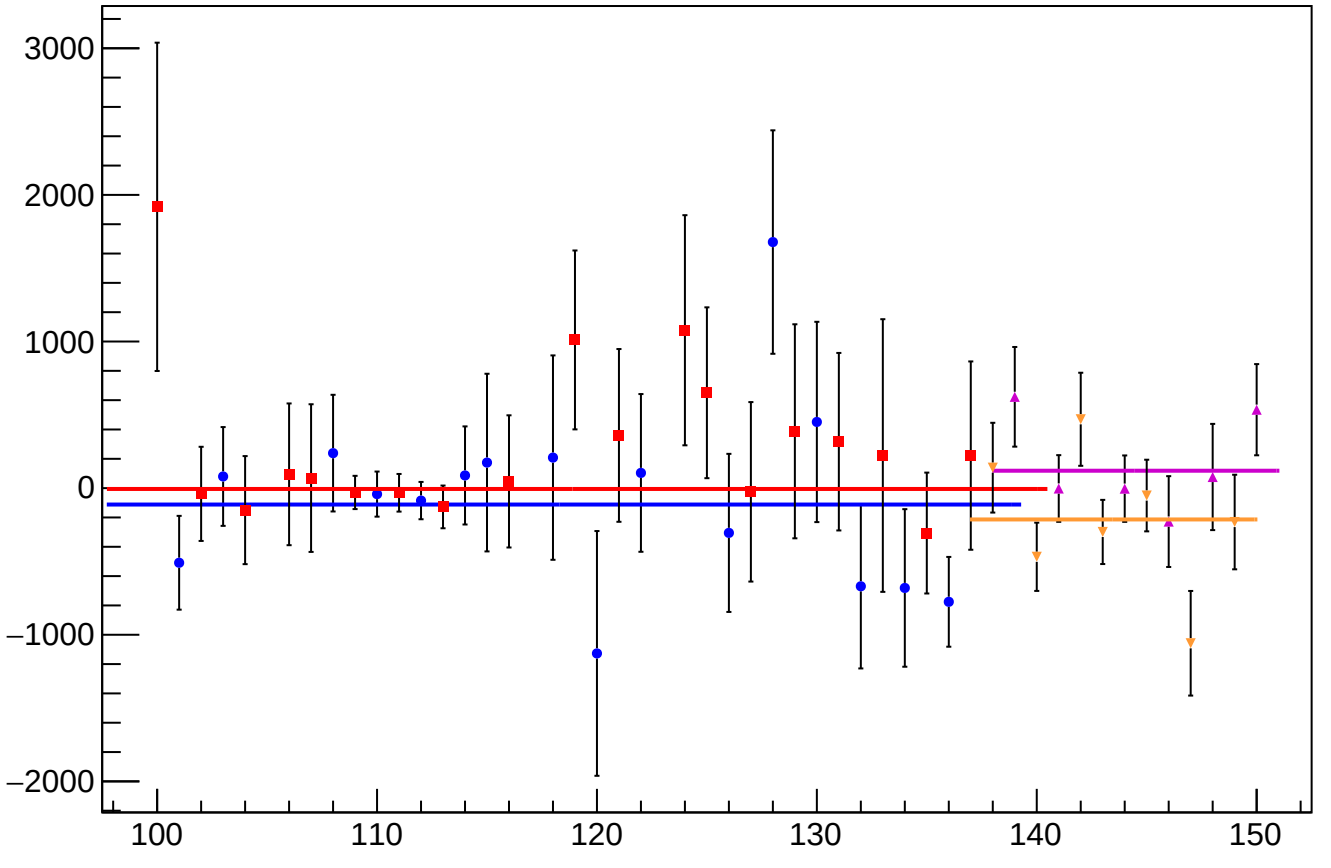
Left: 56.627+/-0.012 $\chi^2$/NDF: 21463.1/12

Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.045+/-0.012 $\chi^2$/NDF:301593.5/21

Out: 59.863+/-0.012 $\chi^2$/NDF:348846.3/25

All: 59.452+/-0.008 $\chi^2$/NDF: 652790.8/47




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -213.577+/-103.057 $\chi^2$/NDF:13.4/6

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 118.762+/-114.796 $\chi^2$/NDF:5.8/5

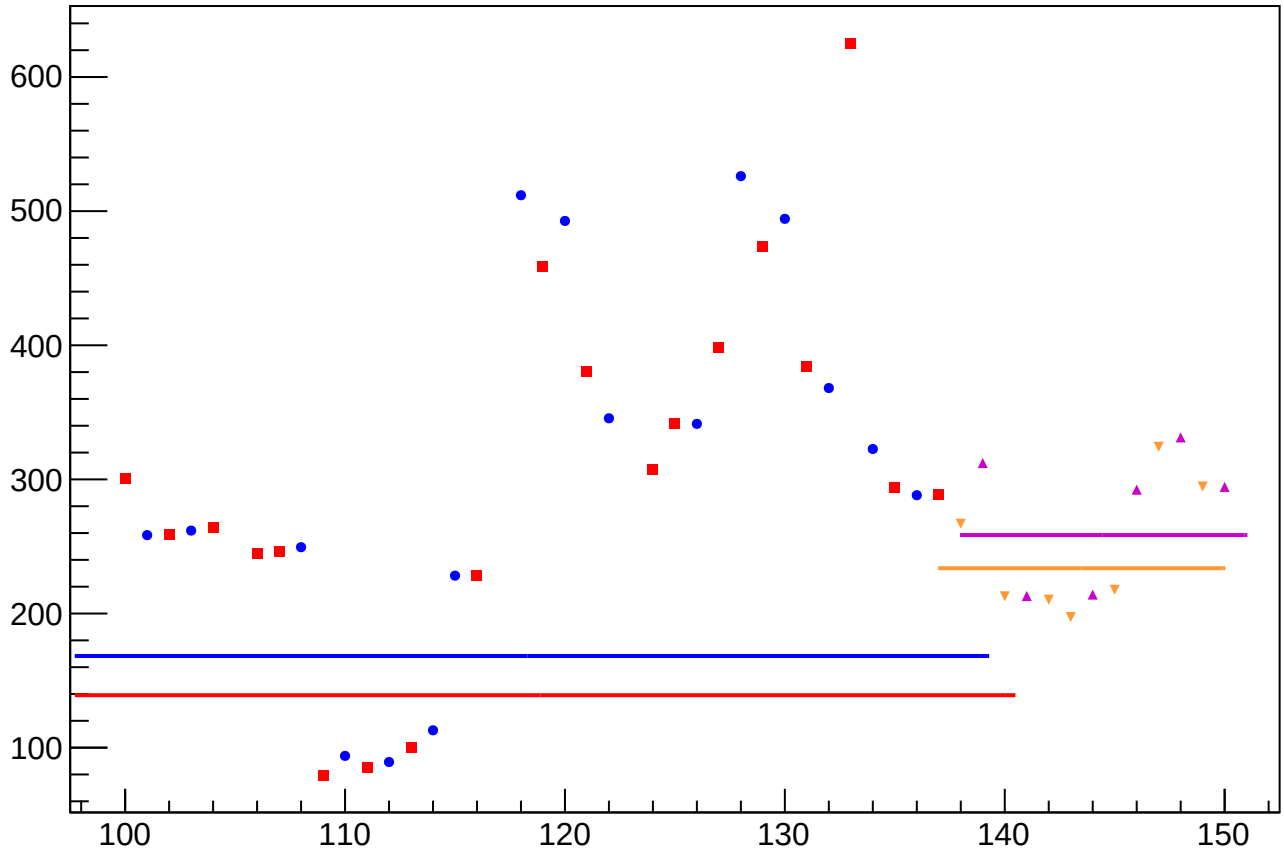
Left: -65.265+/-76.688 $\chi^2$/NDF: 23.8/12

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -41.312+/-63.494 $\chi^2$/NDF:27.1/21

Out: -63.607+/-54.421 $\chi^2$/NDF:27.9/25

All: -54.165+/-41.320 $\chi^2$/NDF: 55.1/47




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 233.775+/-0.073 $\chi^2$/NDF:315025.9/6

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 258.504+/-0.081 $\chi^2$/NDF:337851.3/5

Left: 244.810+/-0.054 $\chi^2$/NDF: 704268.0/12

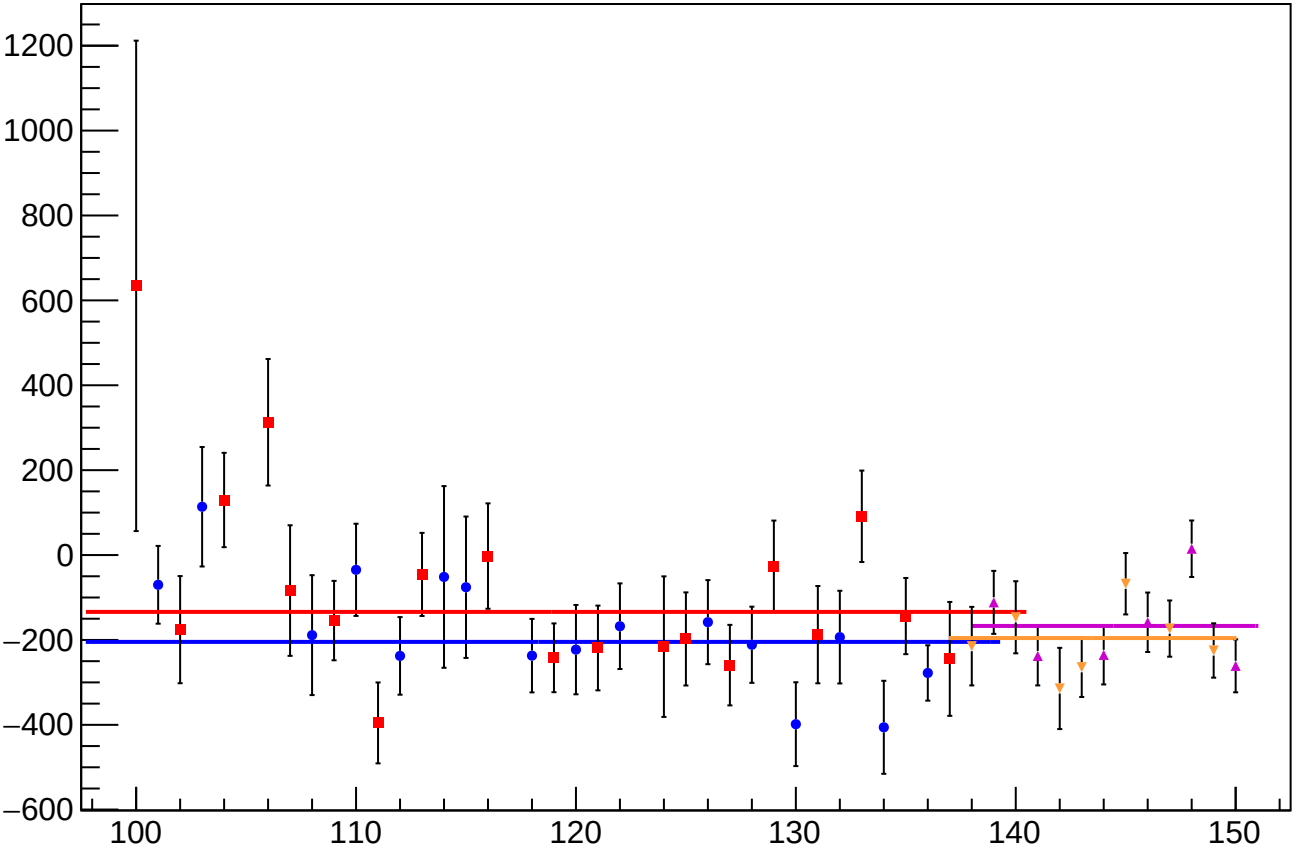
Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 195.916+/-0.045 $\chi^2$/NDF:5738484.8/21

Out: 165.504+/-0.038 $\chi^2$/NDF:6662134.8/25

All: 178.384+/-0.029 $\chi^2$/NDF: 12665131.6/47

# dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -195.544+/-28.493 $\chi^2$/NDF:6.3/6

Right Out: -133.924+/-25.484 $\chi^2$/NDF: 37.2/18

Left In: -167.001+/-27.918 $\chi^2$/NDF:12.3/5

Left: -180.982+/-19.941 $\chi^2$/NDF: 19.2/12

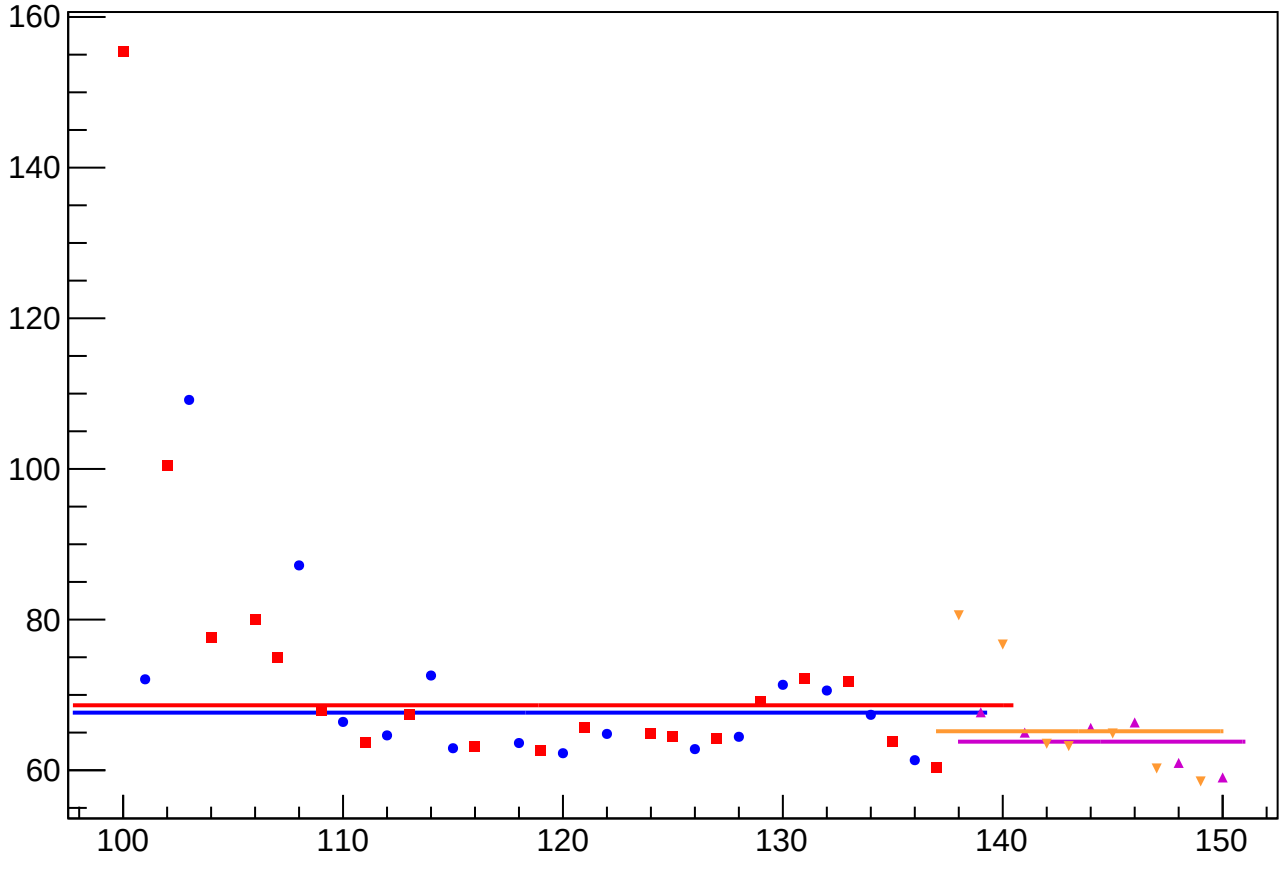
Right: -169.195+/-18.034 $\chi^2$/NDF: 61.1/34

In: -187.469+/-18.838 $\chi^2$/NDF:33.3/21

Out: -161.309+/-18.995 $\chi^2$/NDF:46.2/25

All: -174.498+/-13.375 $\chi^2$/NDF: 80.4/47

# dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263669.9/15

Left Out: 65.176+/-0.020 $\chi^2$/NDF:127147.2/6

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248164.6/18

Left In: 63.794+/-0.020 $\chi^2$/NDF:25371.6/5

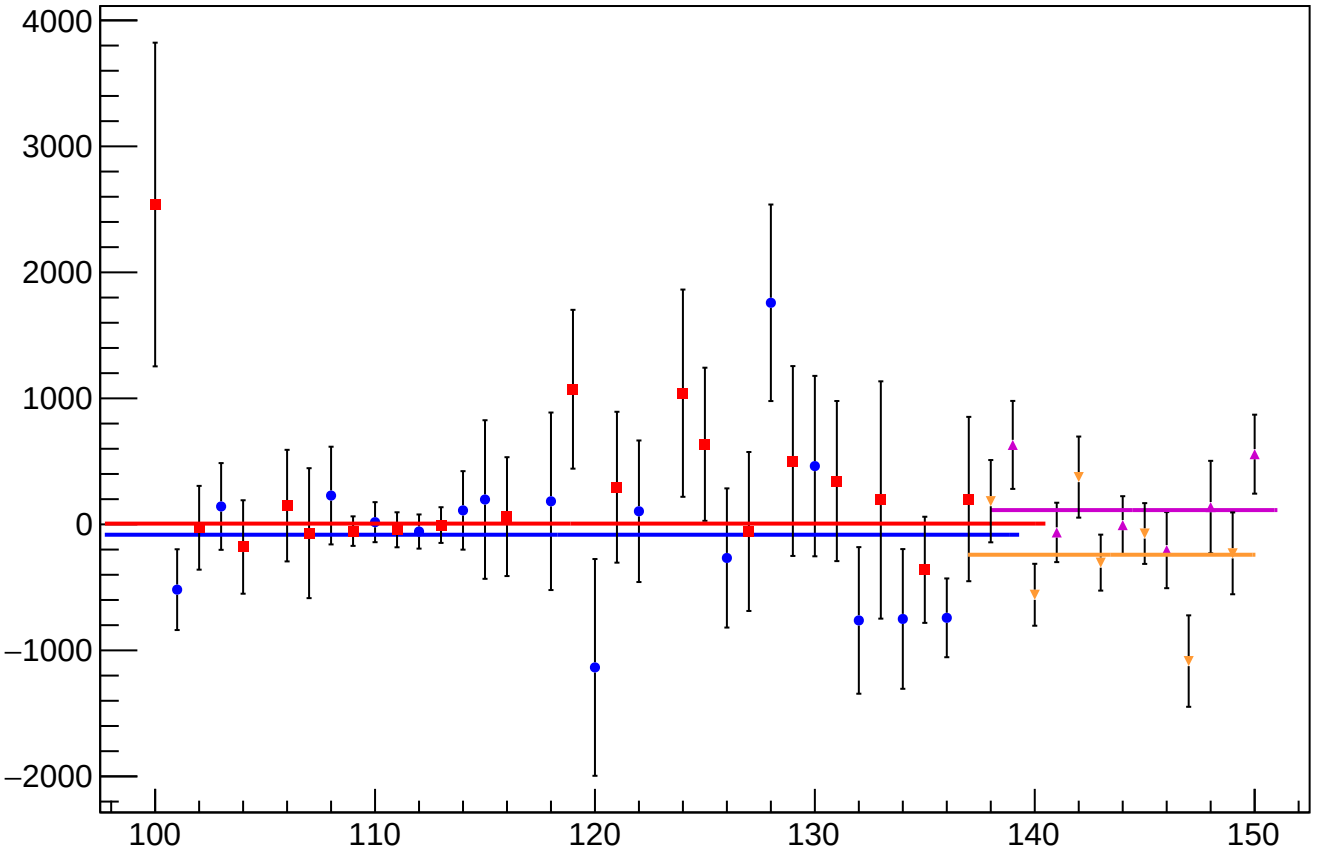
Left: 64.471+/-0.014 $\chi^2$/NDF: 154919.3/12

Right: 68.136+/-0.013 $\chi^2$/NDF: 513300.5/34

In: 65.893+/-0.013 $\chi^2$/NDF:309796.4/21

Out: 67.092+/-0.013 $\chi^2$/NDF:391582.5/25

All: 66.487+/-0.009 $\chi^2$/NDF: 705393.7/47




Right In: -82.228+/-78.676 $\chi^2$/NDF: 19.2/15

Left Out: -240.985+/-105.329 $\chi^2$/NDF:13.0/6

Right Out: 6.063+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 113.352+/-116.428 $\chi^2$/NDF:6.1/5

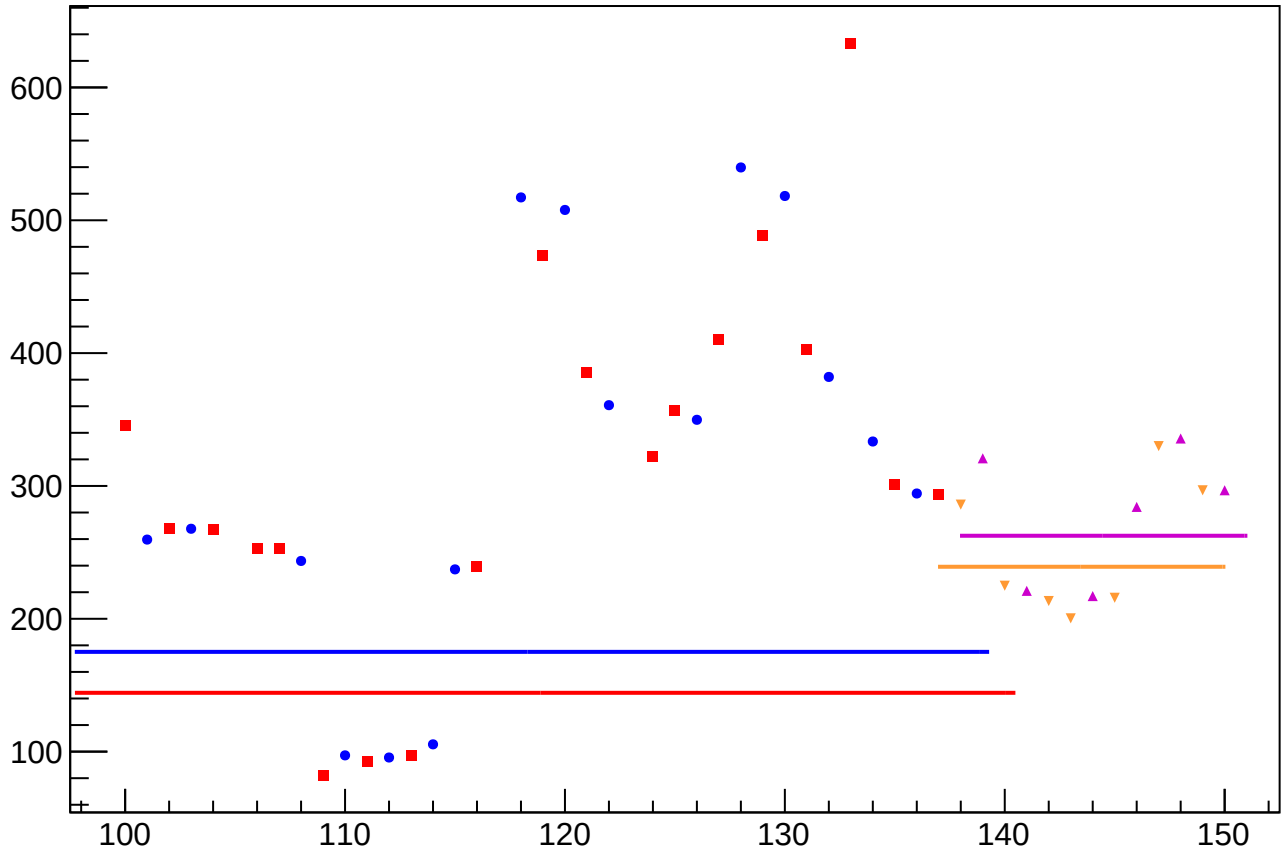
Left: -81.505+/-78.109 $\chi^2$/NDF: 24.2/12

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: -20.916+/-65.188 $\chi^2$/NDF:27.3/21

Out: -63.452+/-55.873 $\chi^2$/NDF:29.0/25

All: -45.438+/-42.423 $\chi^2$/NDF: 56.5/47




Right In: 175.099+/-0.056 $\chi^2$/NDF: 4429076.5/15

Left Out: 239.167+/-0.074 $\chi^2$/NDF:328622.2/6

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132432.2/18

Left In: 262.509+/-0.082 $\chi^2$/NDF:309814.1/5

Left: 249.673+/-0.055 $\chi^2$/NDF: 682645.9/12

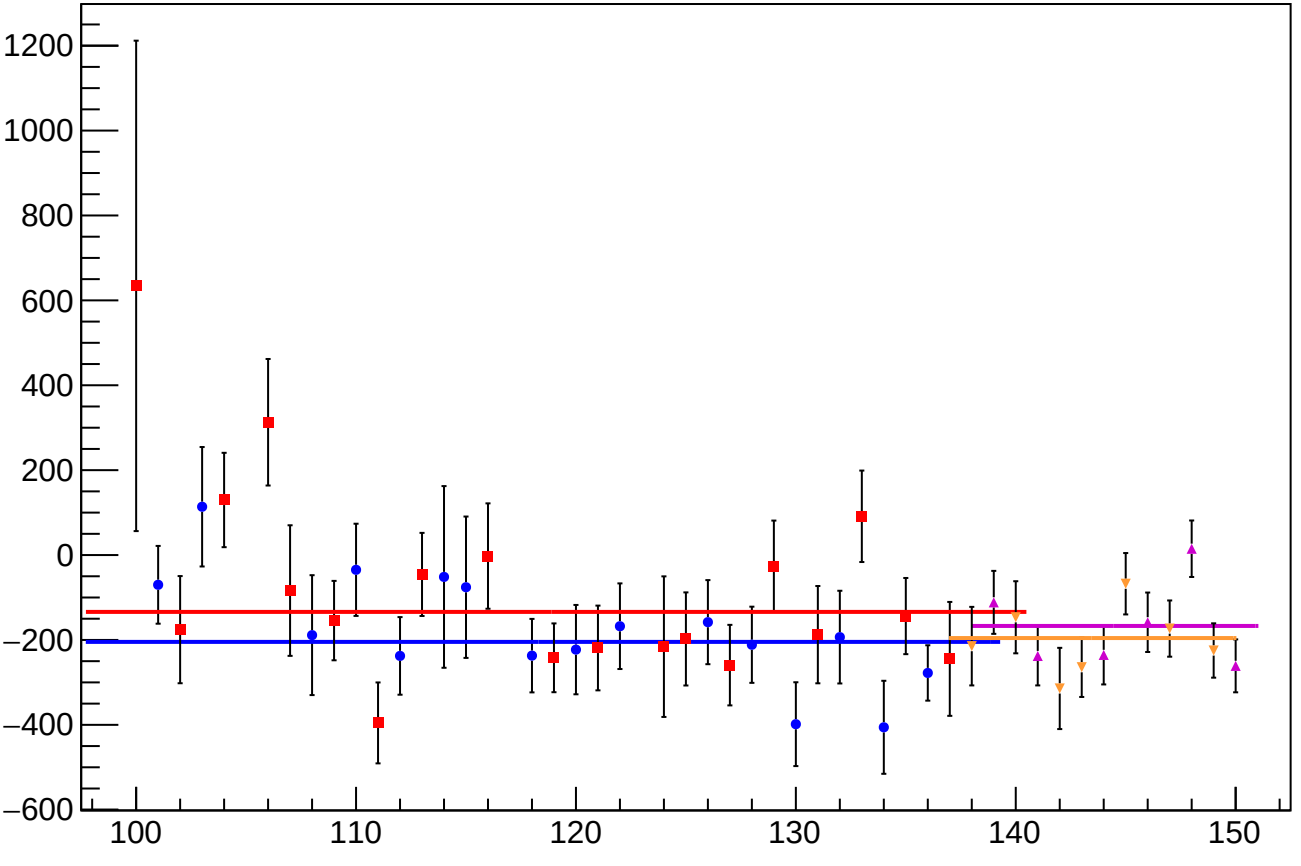
Right: 156.987+/-0.036 $\chi^2$/NDF: 9741889.9/34

In: 202.501+/-0.046 $\chi^2$/NDF:5512797.1/21

Out: 170.977+/-0.040 $\chi^2$/NDF:6627523.4/25

All: 184.328+/-0.030 $\chi^2$/NDF: 12409958.6/47

# eigen_dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -195.545+/-28.493 $\chi^2$/NDF:6.3/6

Right Out: -133.926+/-25.483 $\chi^2$/NDF: 37.2/18

Left In: -167.001+/-27.918 $\chi^2$/NDF:12.3/5

Left: -180.982+/-19.941 $\chi^2$/NDF: 19.2/12

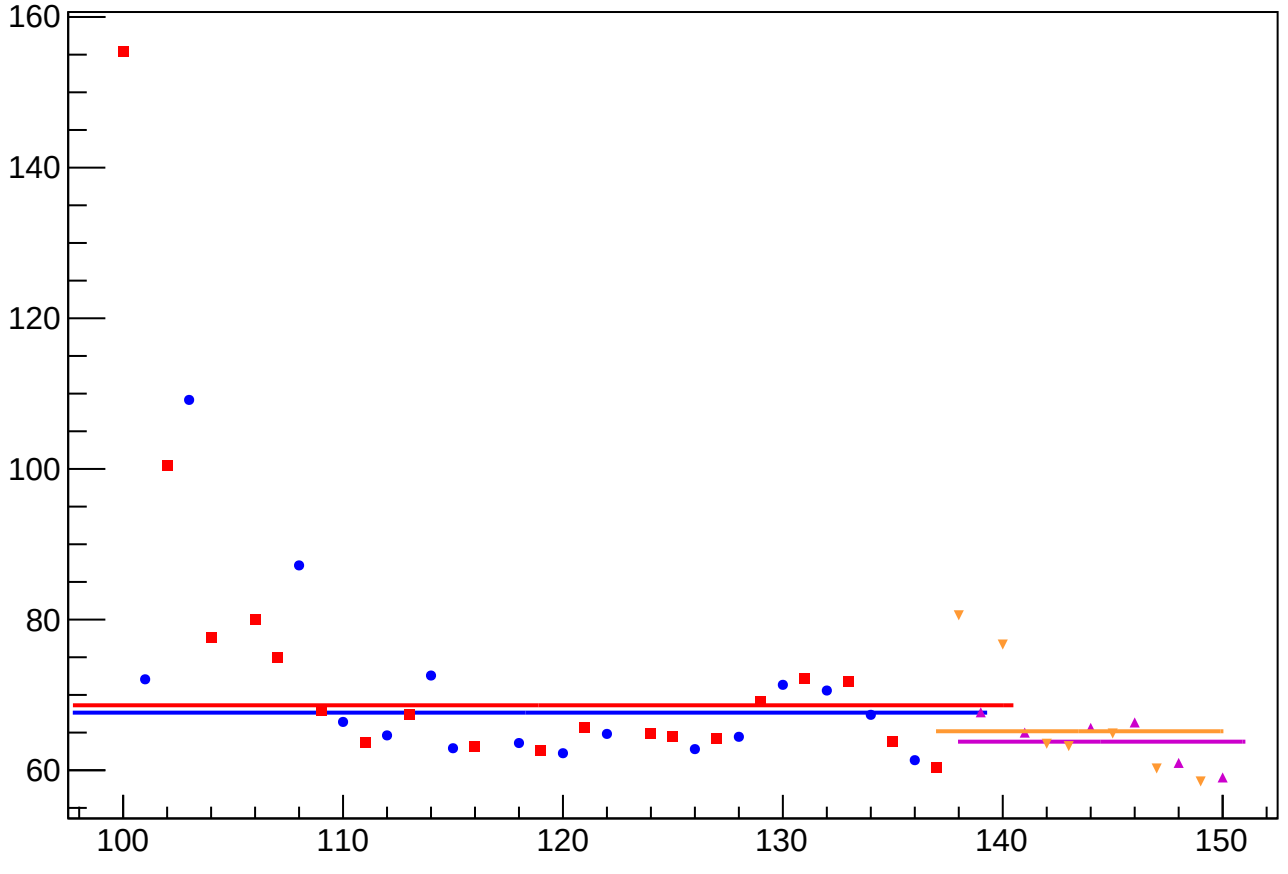
Right: -169.196+/-18.034 $\chi^2$/NDF: 61.1/34

In: -187.469+/-18.838 $\chi^2$/NDF:33.3/21

Out: -161.310+/-18.995 $\chi^2$/NDF:46.2/25

All: -174.499+/-13.375 $\chi^2$/NDF: 80.4/47

# eigen_dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263668.9/15

Left Out: 65.176+/-0.020 $\chi^2$/NDF:127145.5/6

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248166.1/18

Left In: 63.794+/-0.020 $\chi^2$/NDF:25371.9/5

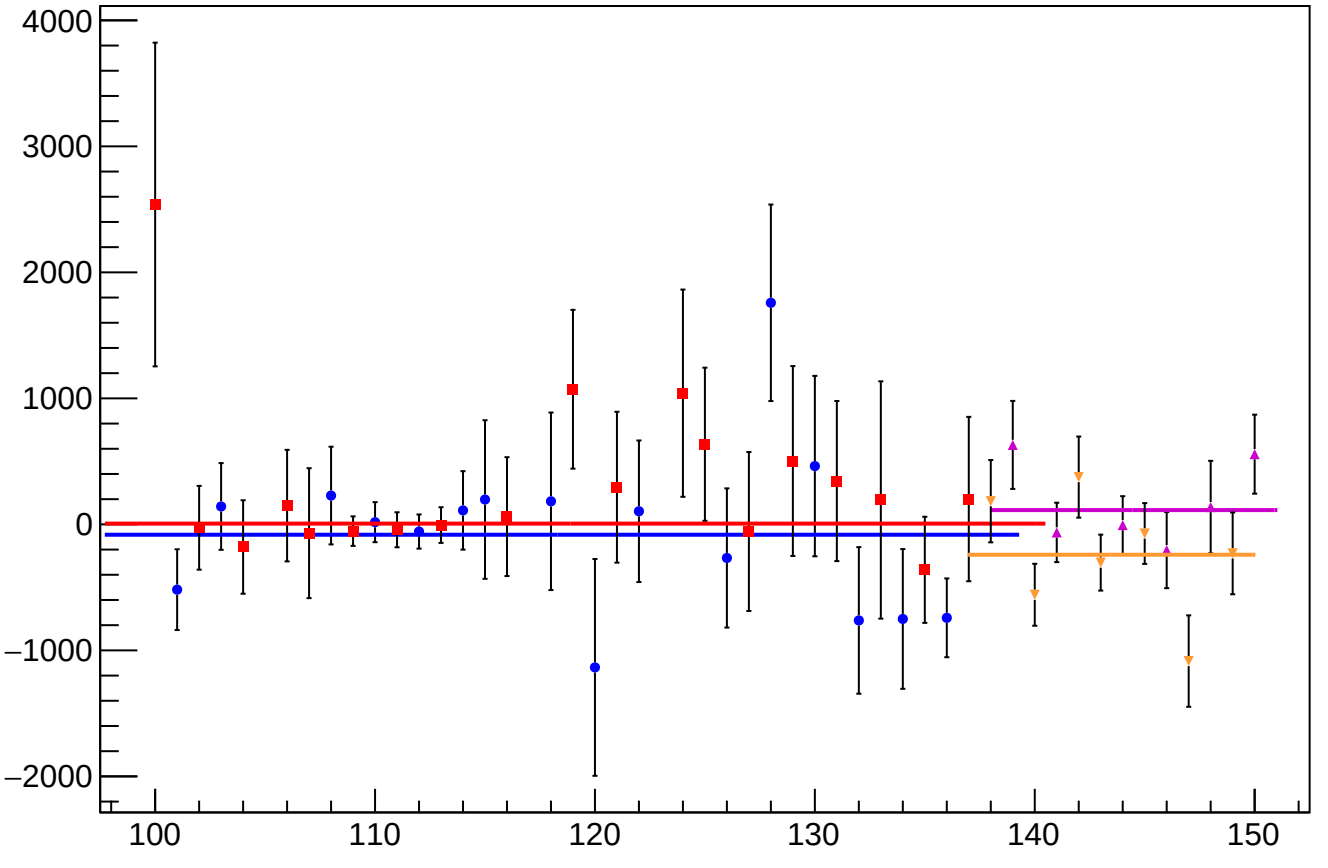
Left: 64.471+/-0.014 $\chi^2$/NDF: 154918.0/12

Right: 68.136+/-0.013 $\chi^2$/NDF: 513301.0/34

In: 65.893+/-0.013 $\chi^2$/NDF:309792.9/21

Out: 67.092+/-0.013 $\chi^2$/NDF:391579.4/25

All: 66.487+/-0.009 $\chi^2$/NDF: 705387.0/47




Right In: -82.226+/-78.675 $\chi^2$/NDF: 19.2/15

Left Out: -240.986+/-105.329 $\chi^2$/NDF:13.0/6

Right Out: 6.062+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 113.352+/-116.427 $\chi^2$/NDF:6.1/5

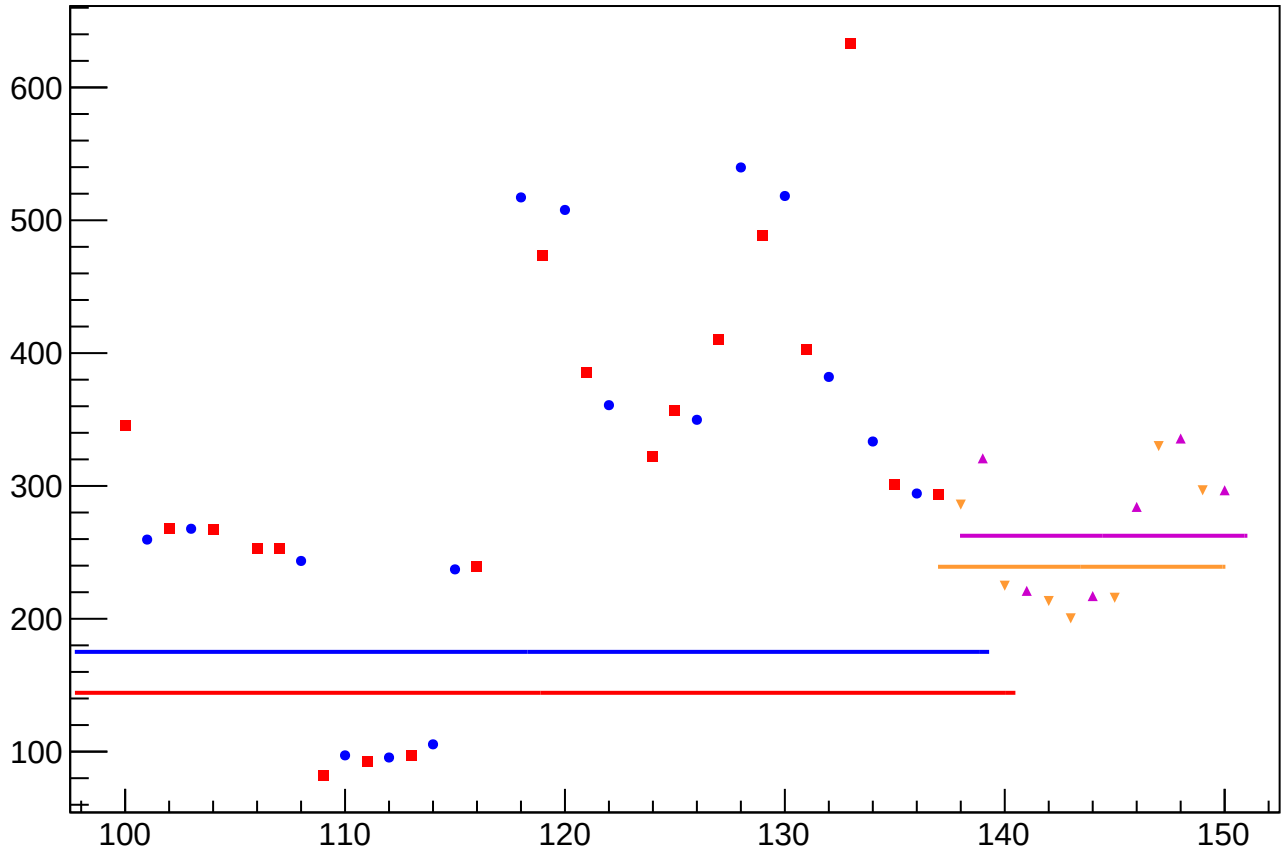
Left: -81.506+/-78.109 $\chi^2$/NDF: 24.2/12

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: -20.915+/-65.187 $\chi^2$/NDF:27.3/21

Out: -63.454+/-55.873 $\chi^2$/NDF:29.0/25

All: -45.438+/-42.422 $\chi^2$/NDF: 56.5/47




Right In: 175.098+/-0.056 $\chi^2$/NDF: 4429098.4/15

Left Out: 239.166+/-0.074 $\chi^2$/NDF:328623.7/6

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132412.3/18

Left In: 262.508+/-0.082 $\chi^2$/NDF:309812.0/5

Left: 249.672+/-0.055 $\chi^2$/NDF: 682646.1/12

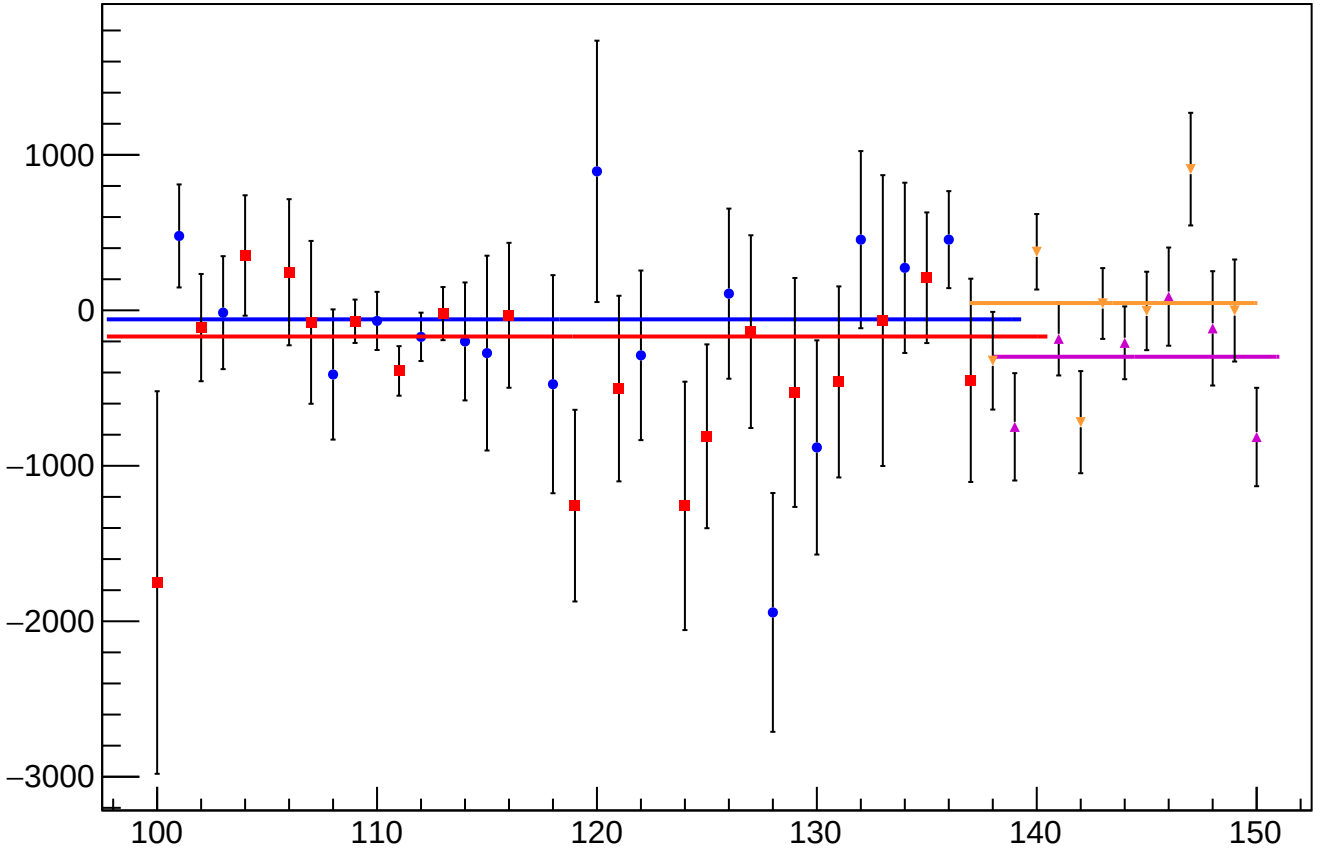
Right: 156.987+/-0.036 $\chi^2$/NDF: 9741880.9/34

In: 202.500+/-0.046 $\chi^2$/NDF:5512830.8/21

Out: 170.977+/-0.040 $\chi^2$/NDF:6627493.7/25

All: 184.327+/-0.030 $\chi^2$/NDF: 12409949.7/47

# asym_sam8_mean vs Slug, Sign Corrected




Right In: -57.970+/-86.890 $\chi^2$/NDF: 17.4/15

Left Out: 46.825+/-106.423 $\chi^2$/NDF:14.4/6

Right Out: -168.322+/-74.598 $\chi^2$/NDF: 15.5/18

Left In: -298.556+/-117.808 $\chi^2$/NDF:6.5/5

Left: -108.374+/-78.971 $\chi^2$/NDF: 25.6/12

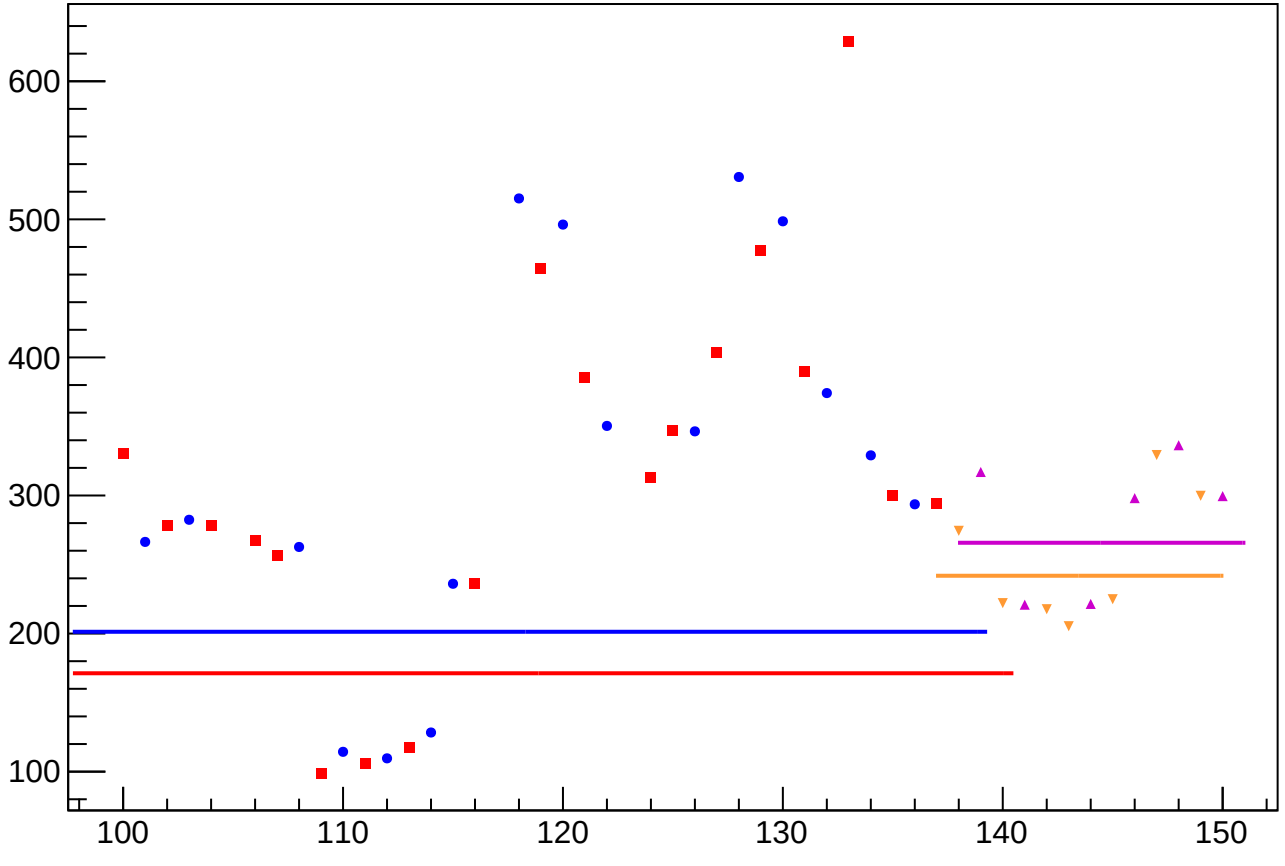
Right: -121.498+/-56.600 $\chi^2$/NDF: 33.8/34

In: -142.736+/-69.928 $\chi^2$/NDF:26.6/21

Out: -97.439+/-61.085 $\chi^2$/NDF:32.6/25

All: -117.044+/-46.004 $\chi^2$/NDF: 59.5/47

# asym_sam8_rms vs Slug, Sign Corrected




Right In: 201.301+/-0.061 $\chi^2$/NDF: 3572199.4/15

Left Out: 241.876+/-0.075 $\chi^2$/NDF:285133.2/6

Right Out: 171.252+/-0.053 $\chi^2$/NDF: 4192554.2/18

Left In: 265.764+/-0.083 $\chi^2$/NDF:305641.1/5

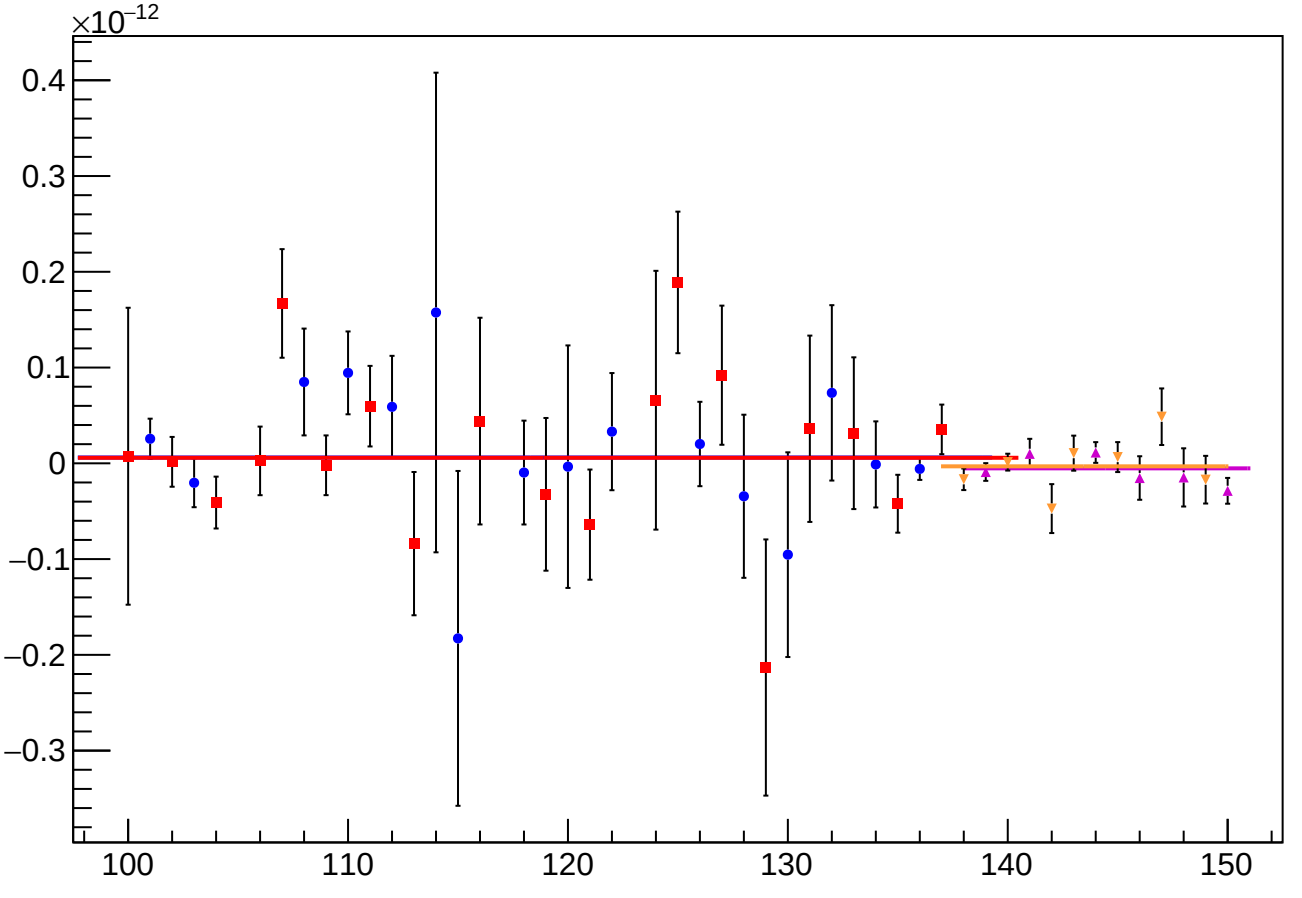
Left: 252.610+/-0.056 $\chi^2$/NDF: 636055.0/12

Right: 184.002+/-0.040 $\chi^2$/NDF: 7902458.5/34

In: 224.013+/-0.049 $\chi^2$/NDF:4265679.4/21

Out: 194.520+/-0.043 $\chi^2$/NDF:5068288.9/25

All: 207.285+/-0.033 $\chi^2$/NDF: 9535764.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.8/5

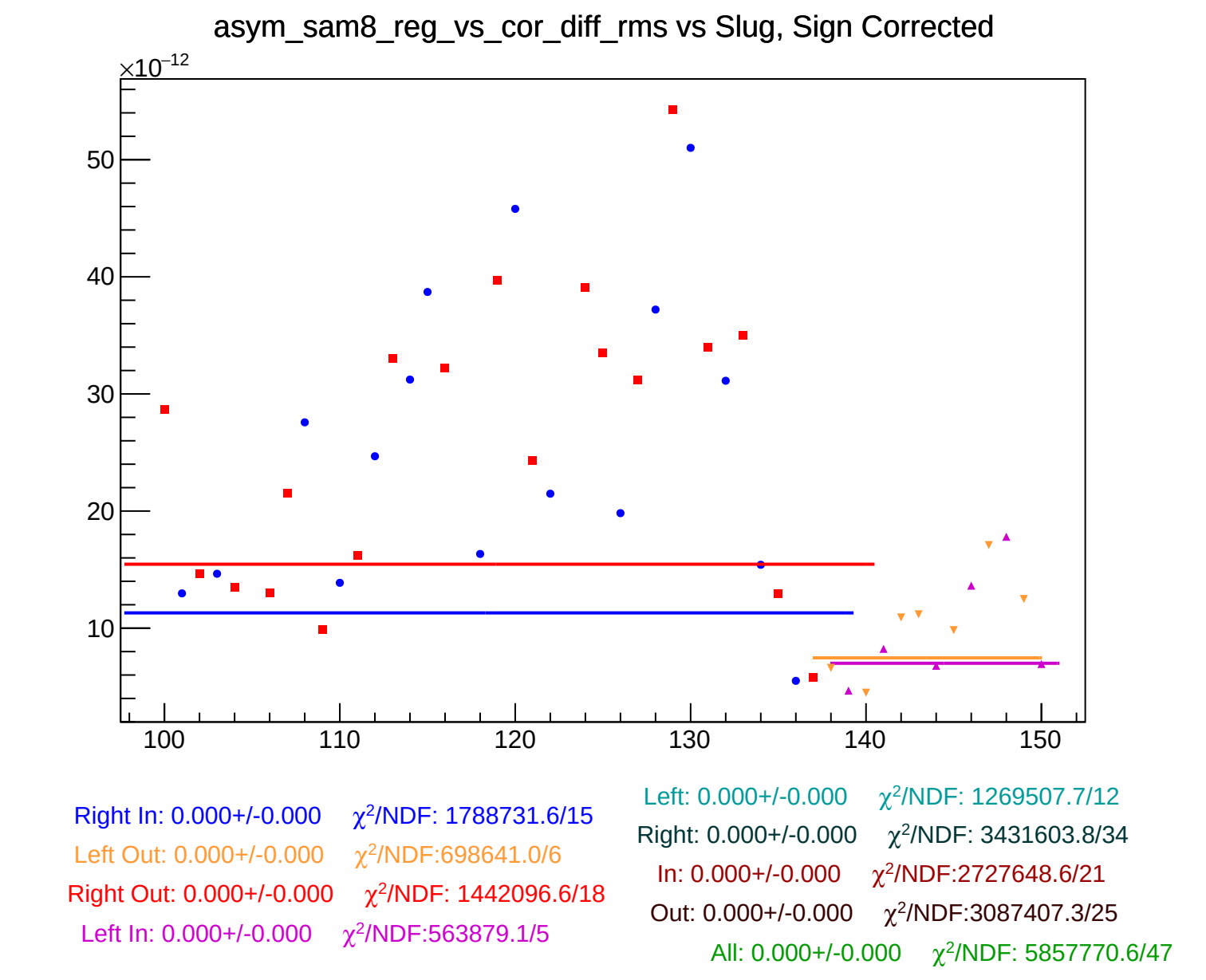
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.9/12

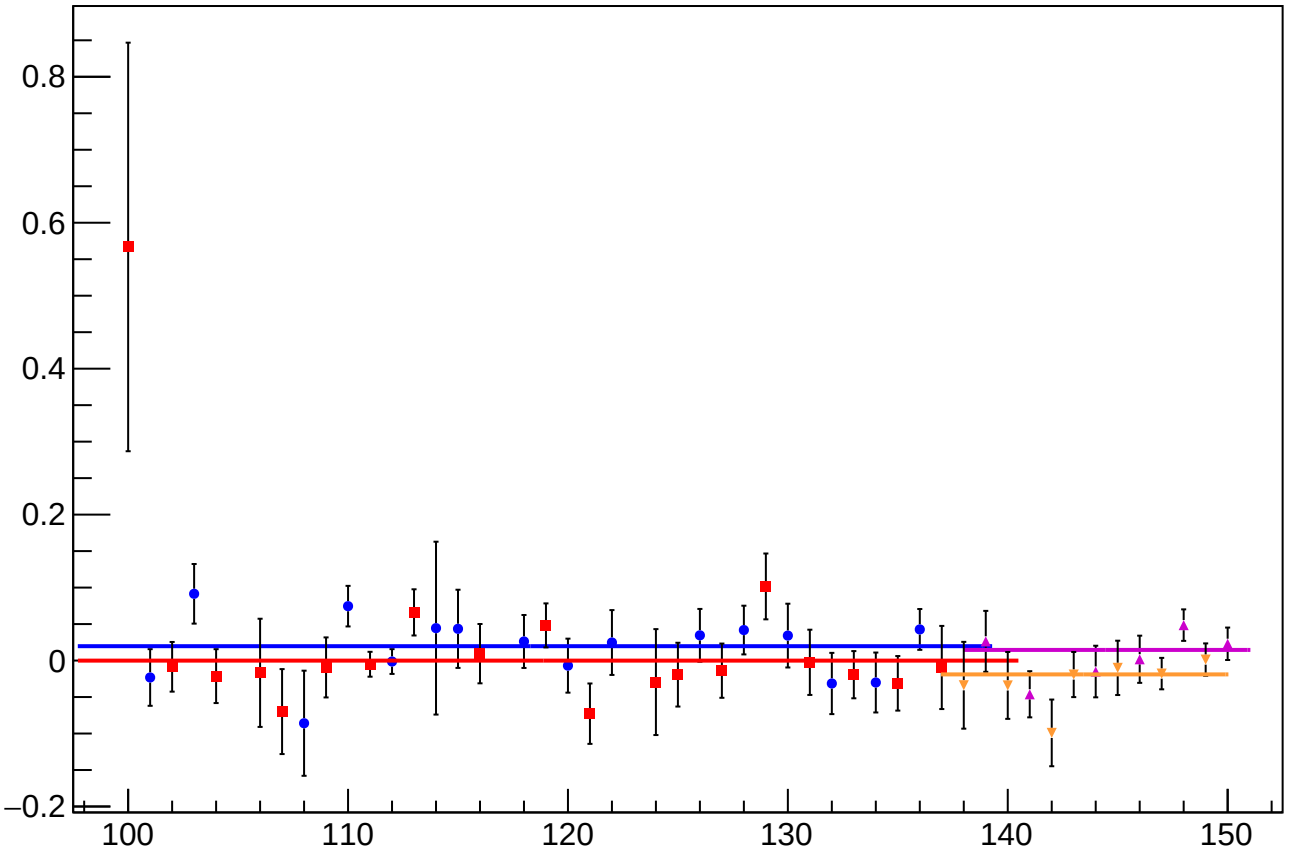
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.9/21

Out: -0.000+/-0.000 $\chi^2$/NDF:40.1/25

All: -0.000+/-0.000 $\chi^2$/NDF: 62.0/47


asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1788731.6/15
Left Out: 0.000+/-0.000 χ²/NDF:698641.0/6
Right Out: 0.000+/-0.000 χ²/NDF: 1442096.6/18
Left In: 0.000+/-0.000 χ²/NDF:563879.1/5
Left: 0.000+/-0.000 χ²/NDF: 1269507.7/12
Right: 0.000+/-0.000 χ²/NDF: 3431603.8/34
In: 0.000+/-0.000 χ²/NDF:2727648.6/21
Out: 0.000+/-0.000 χ²/NDF:3087407.3/25
All: 0.000+/-0.000 χ²/NDF: 5857770.6/47




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.019+/-0.012 $\chi^2$/NDF:4.1/6

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.015+/-0.012 $\chi^2$/NDF:7.3/5

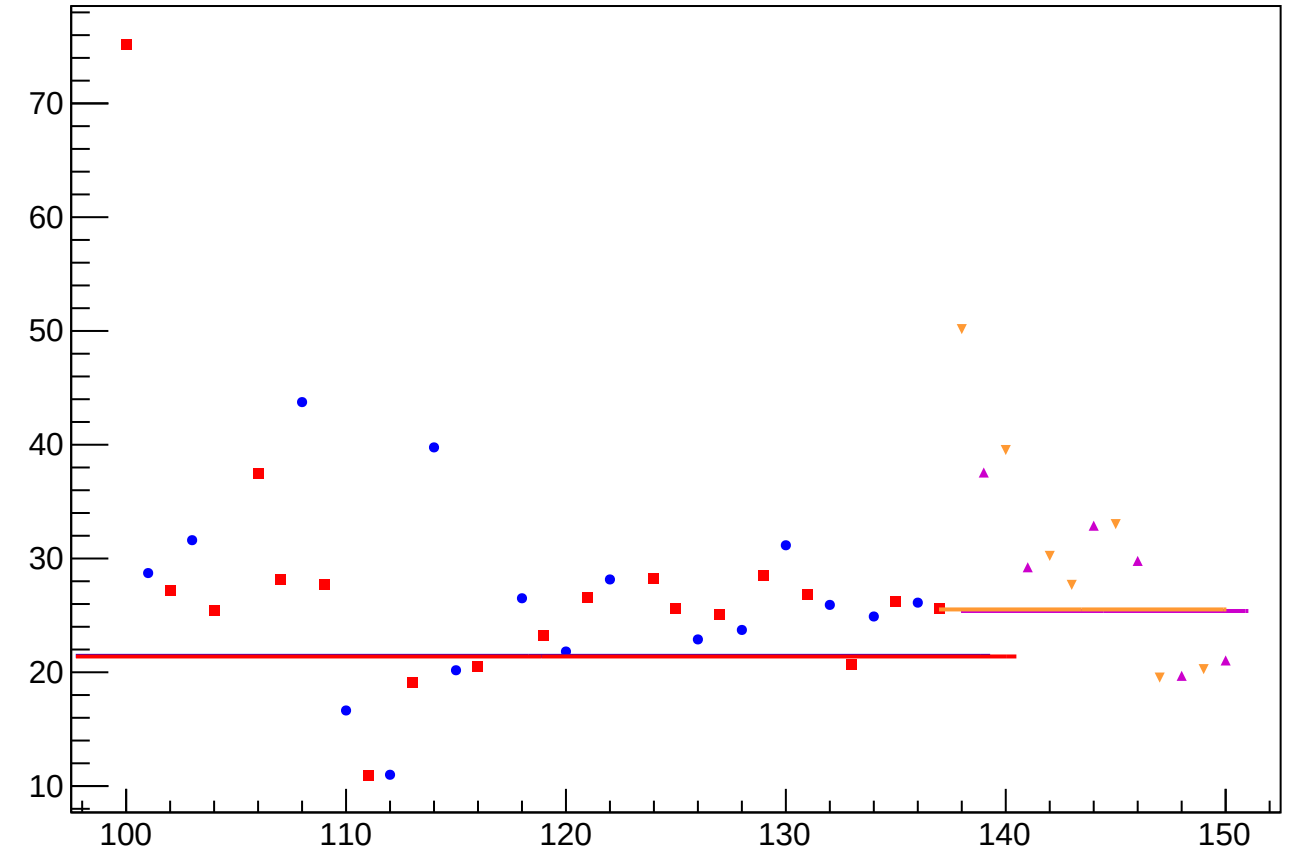
Left: -0.002+/-0.008 $\chi^2$/NDF: 15.5/12

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.018+/-0.007 $\chi^2$/NDF:24.4/21

Out: -0.007+/-0.007 $\chi^2$/NDF:28.7/25

All: 0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 21.444+/-0.006 $\chi^2$/NDF: 1540713.8/15

Left Out: 25.523+/-0.008 $\chi^2$/NDF:908701.8/6

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1311934.3/18

Left In: 25.387+/-0.008 $\chi^2$/NDF:542324.1/5

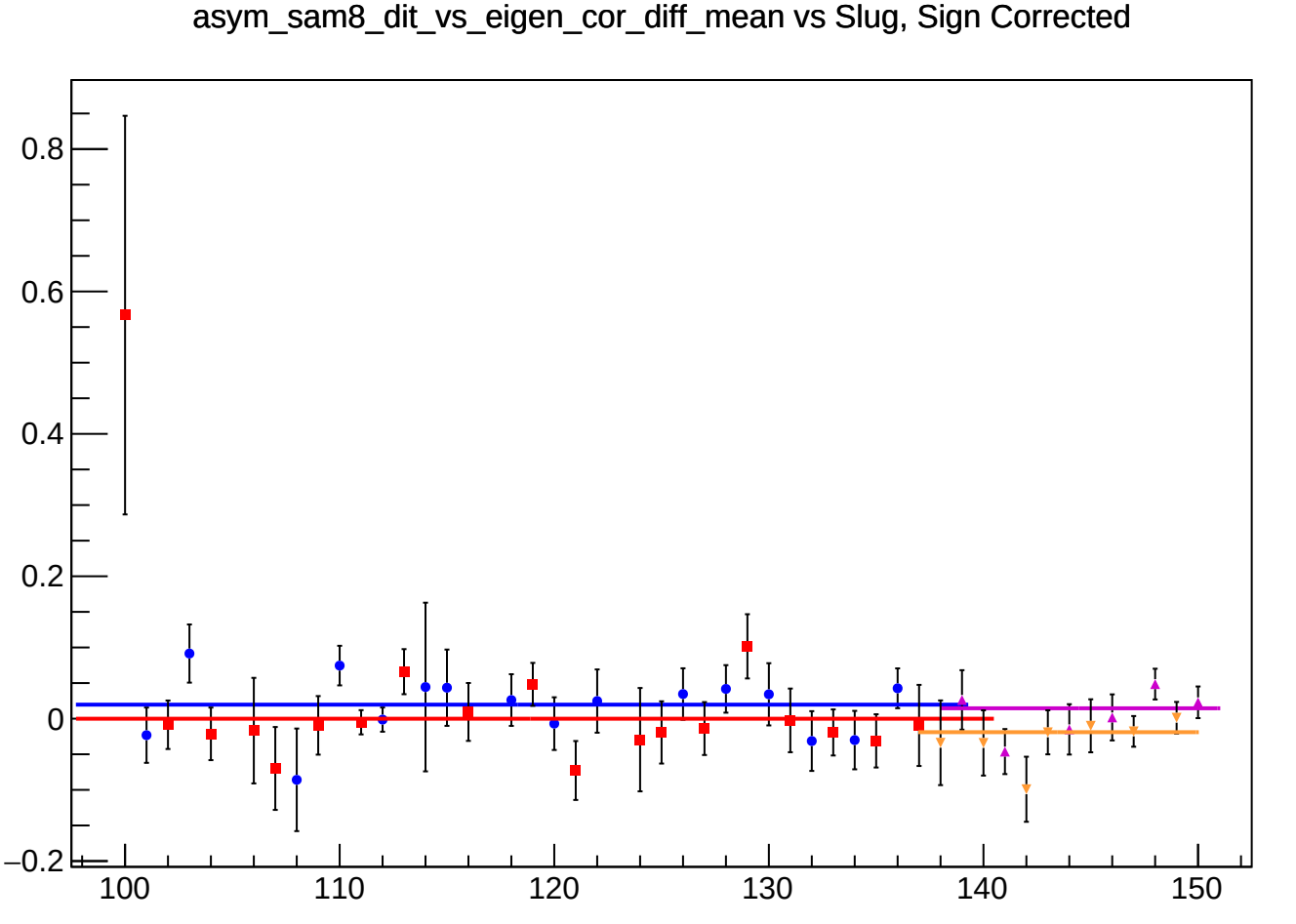
Left: 25.454+/-0.006 $\chi^2$/NDF: 1451163.2/12

Right: 21.416+/-0.004 $\chi^2$/NDF: 2852687.6/34

In: 22.868+/-0.005 $\chi^2$/NDF:2231995.7/21

Out: 22.804+/-0.005 $\chi^2$/NDF:2382286.8/25

All: 22.836+/-0.003 $\chi^2$/NDF: 4614368.7/47




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.019+/-0.012 $\chi^2$/NDF:4.1/6

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.015+/-0.012 $\chi^2$/NDF:7.3/5

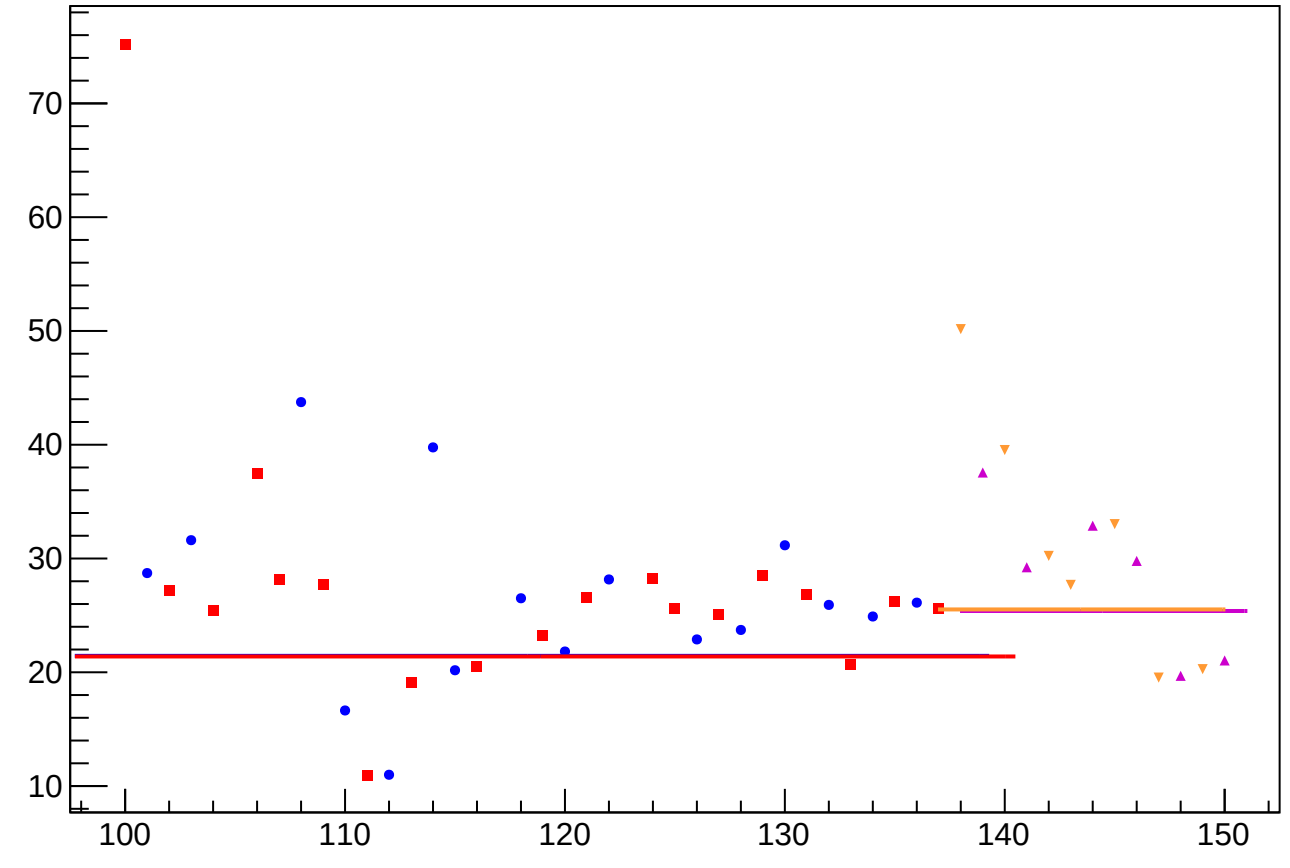
Left: -0.002+/-0.008 $\chi^2$/NDF: 15.5/12

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.018+/-0.007 $\chi^2$/NDF:24.4/21

Out: -0.007+/-0.007 $\chi^2$/NDF:28.7/25

All: 0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 21.444+/-0.006 $\chi^2$/NDF: 1540713.8/15

Left Out: 25.523+/-0.008 $\chi^2$/NDF:908701.8/6

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1311934.3/18

Left In: 25.387+/-0.008 $\chi^2$/NDF:542324.1/5

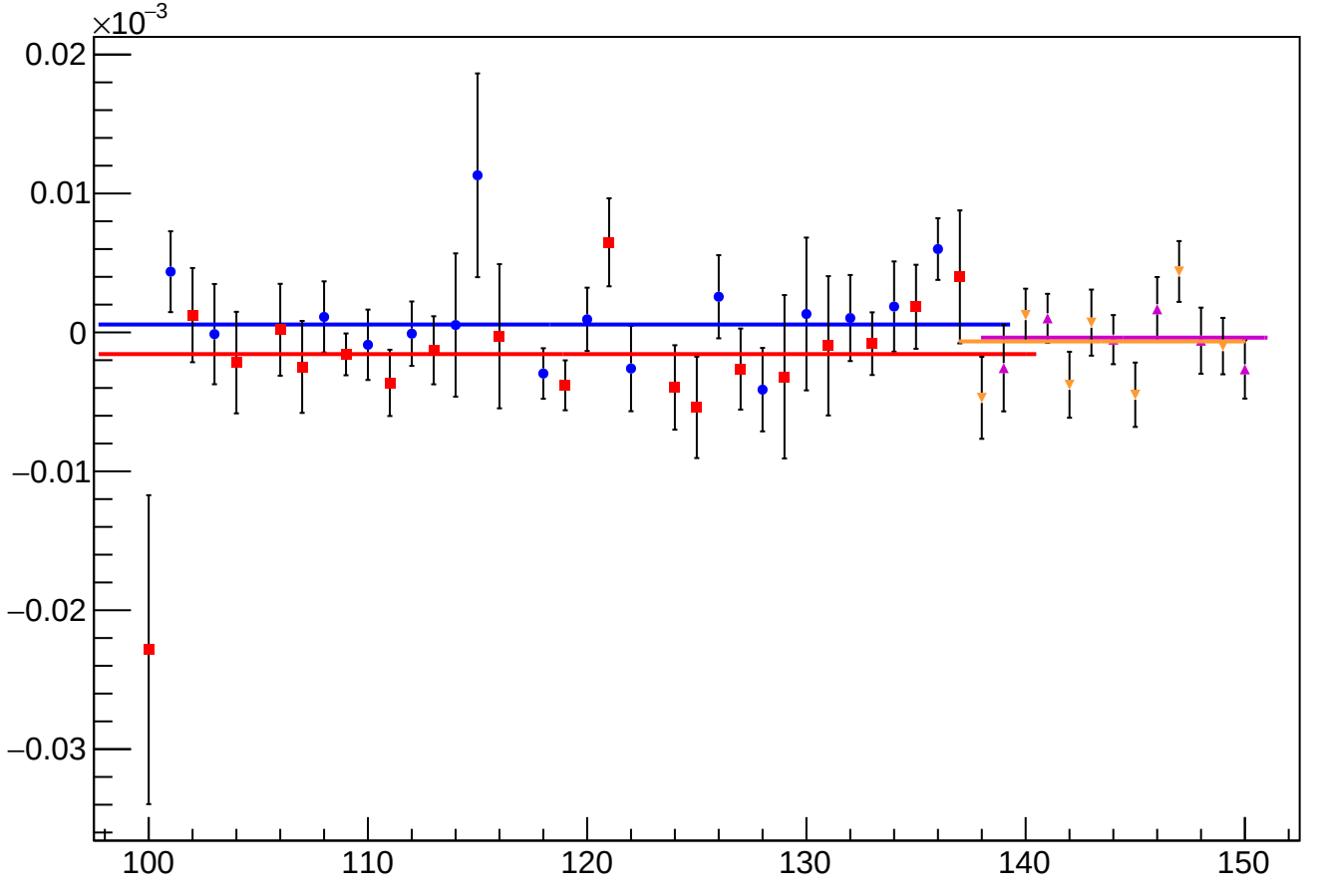
Left: 25.454+/-0.006 $\chi^2$/NDF: 1451163.2/12

Right: 21.416+/-0.004 $\chi^2$/NDF: 2852687.6/34

In: 22.868+/-0.005 $\chi^2$/NDF:2231995.7/21

Out: 22.804+/-0.005 $\chi^2$/NDF:2382286.8/25

All: 22.836+/-0.003 $\chi^2$/NDF: 4614368.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.1/5

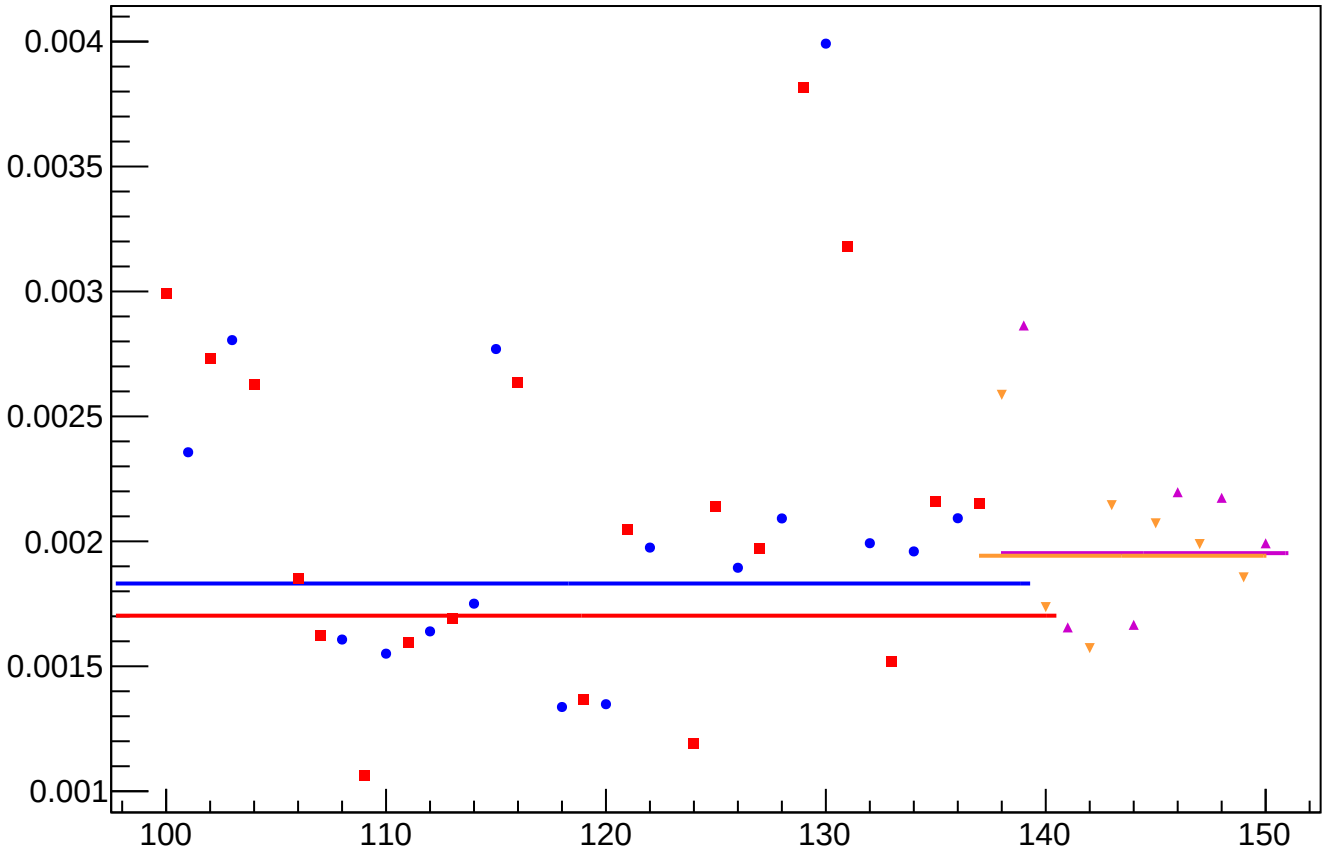
Left: -0.000+/-0.000 $\chi^2$/NDF: 16.1/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:22.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:32.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.6/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 900406.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:192566.6/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1478057.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:320672.1/5

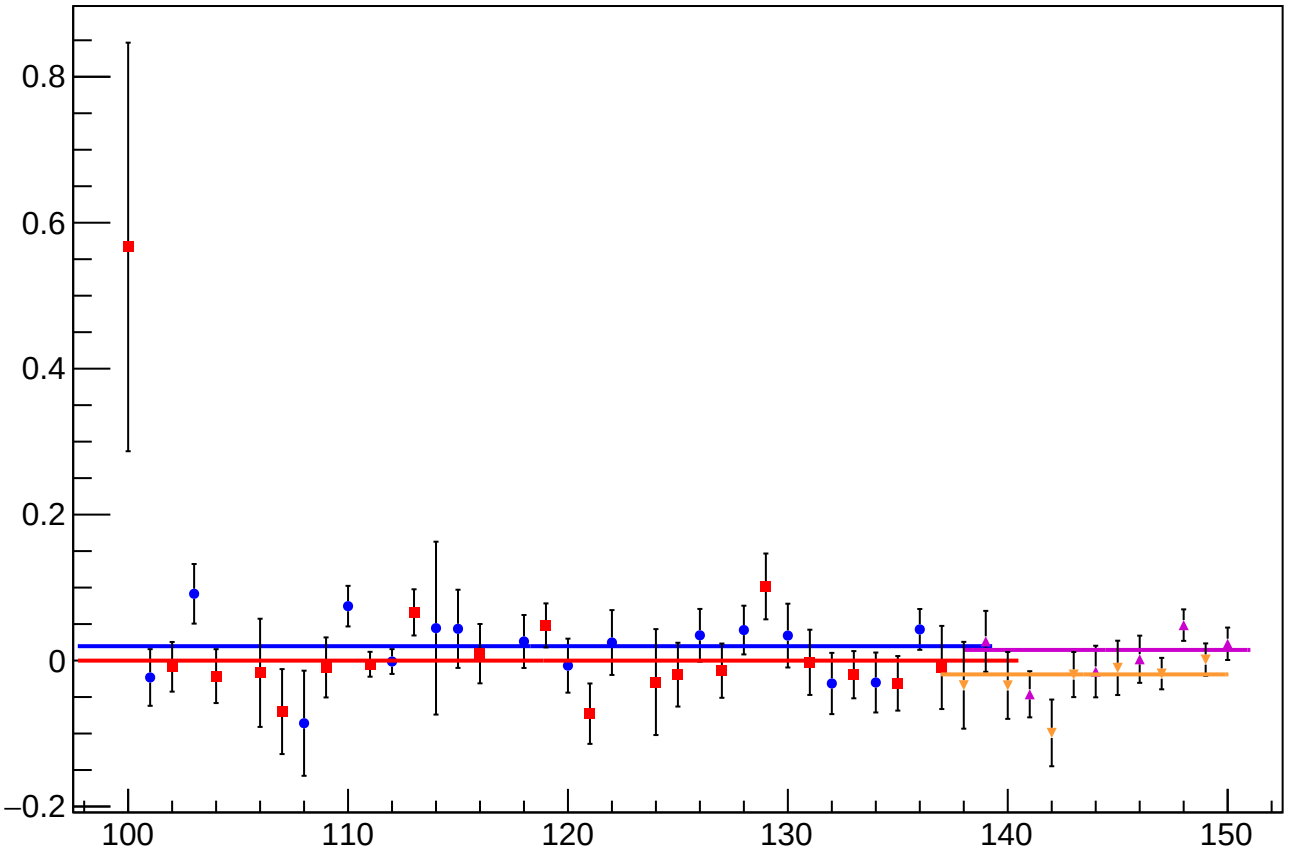
Left: 0.002+/-0.000 $\chi^2$/NDF: 513384.3/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 2413966.0/34

In: 0.002+/-0.000 $\chi^2$/NDF:1244709.1/21

Out: 0.002+/-0.000 $\chi^2$/NDF:1770125.9/25

All: 0.002+/-0.000 $\chi^2$/NDF: 3041451.2/47




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.019+/-0.012 $\chi^2$/NDF:4.1/6

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.015+/-0.012 $\chi^2$/NDF:7.3/5

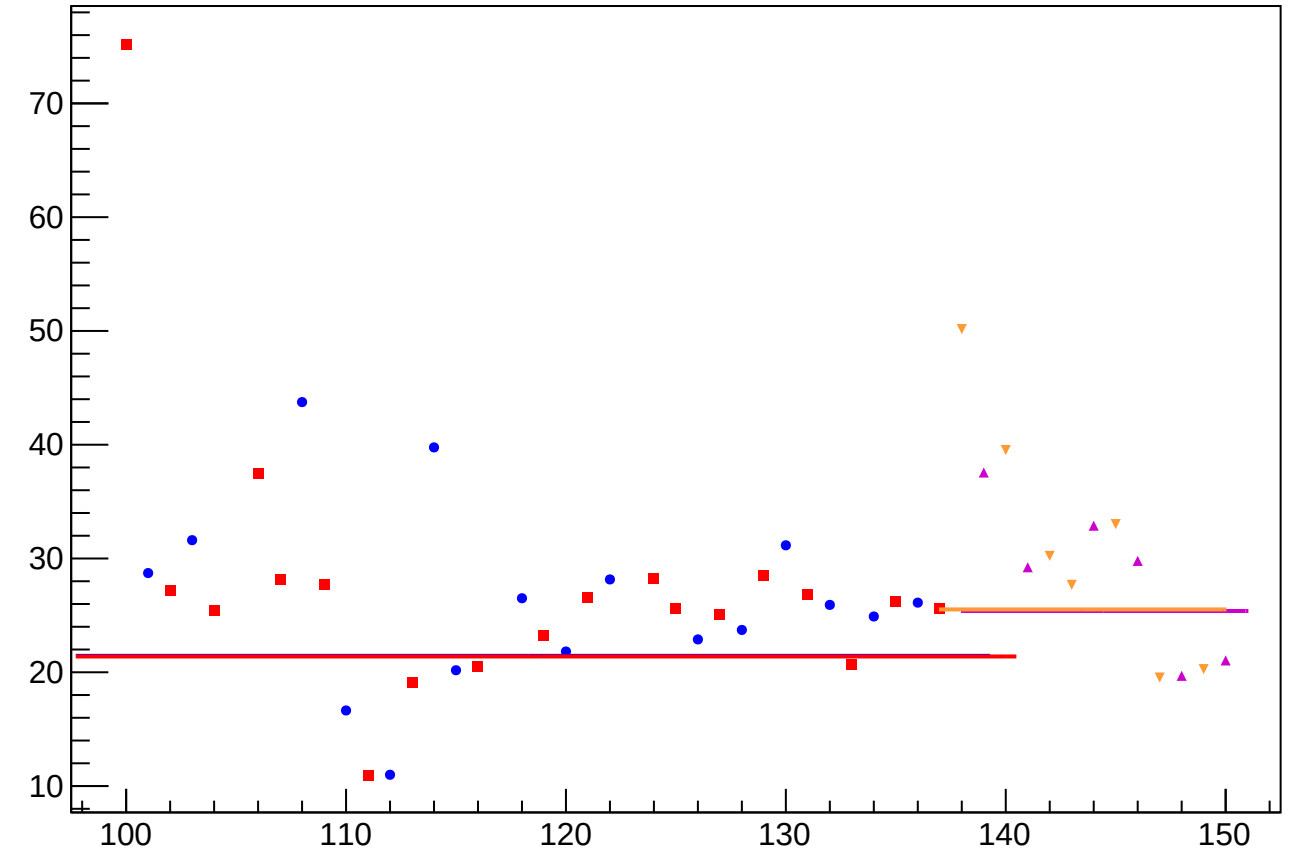
Left: -0.002+/-0.008 $\chi^2$/NDF: 15.5/12

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.018+/-0.007 $\chi^2$/NDF:24.4/21

Out: -0.007+/-0.007 $\chi^2$/NDF:28.7/25

All: 0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 21.443+/-0.006 $\chi^2$/NDF: 1540859.8/15

Left Out: 25.524+/-0.008 $\chi^2$/NDF:908692.6/6

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1312055.7/18

Left In: 25.387+/-0.008 $\chi^2$/NDF:542318.3/5

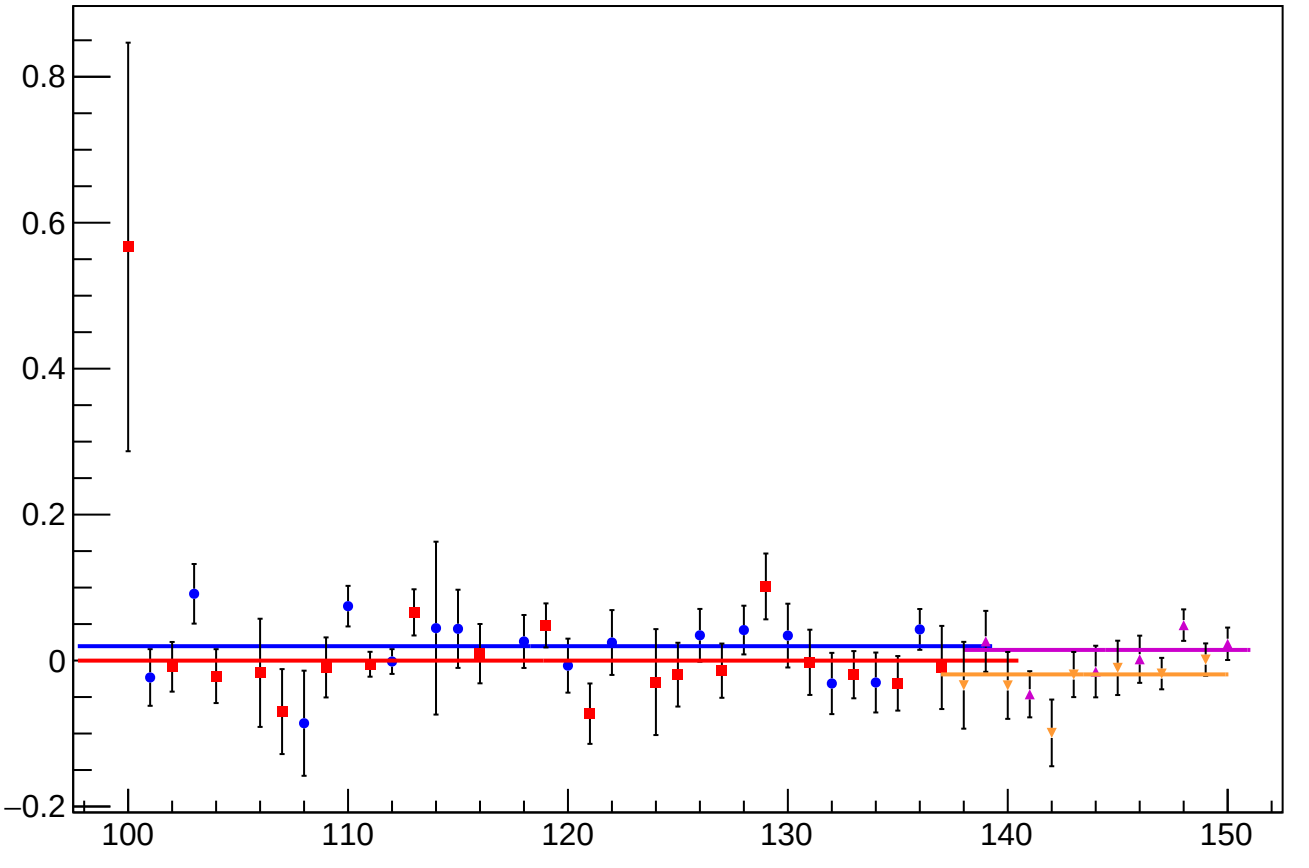
Left: 25.454+/-0.006 $\chi^2$/NDF: 1451148.3/12

Right: 21.415+/-0.004 $\chi^2$/NDF: 2852955.1/34

In: 22.868+/-0.005 $\chi^2$/NDF:2232205.6/21

Out: 22.804+/-0.005 $\chi^2$/NDF:2382472.3/25

All: 22.836+/-0.003 $\chi^2$/NDF: 4614764.0/47




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.019+/-0.012 $\chi^2$/NDF:4.1/6

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.015+/-0.012 $\chi^2$/NDF:7.3/5

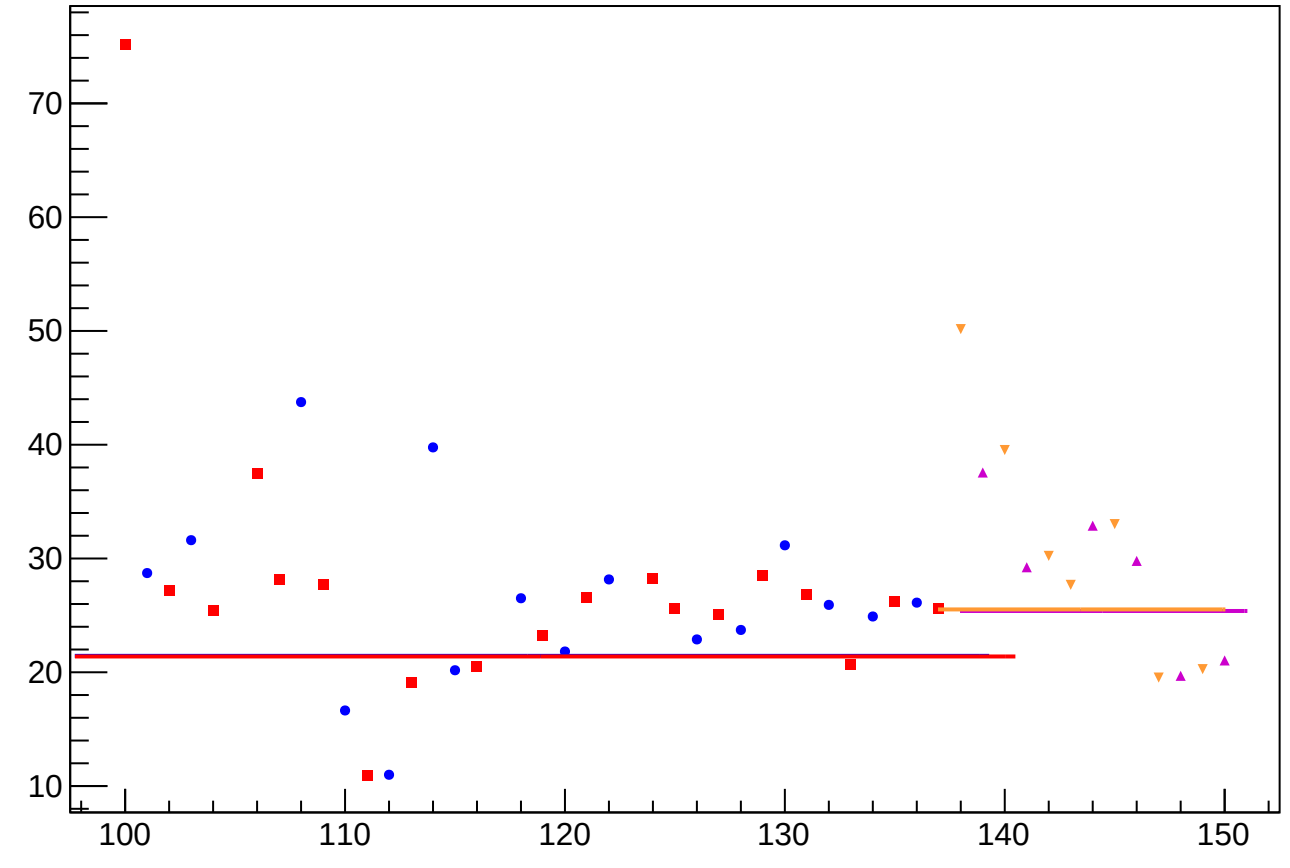
Left: -0.002+/-0.008 $\chi^2$/NDF: 15.5/12

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.018+/-0.007 $\chi^2$/NDF:24.4/21

Out: -0.007+/-0.007 $\chi^2$/NDF:28.7/25

All: 0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 21.443+/-0.006 $\chi^2$/NDF: 1540859.8/15

Left Out: 25.524+/-0.008 $\chi^2$/NDF:908692.6/6

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1312055.7/18

Left In: 25.387+/-0.008 $\chi^2$/NDF:542318.3/5

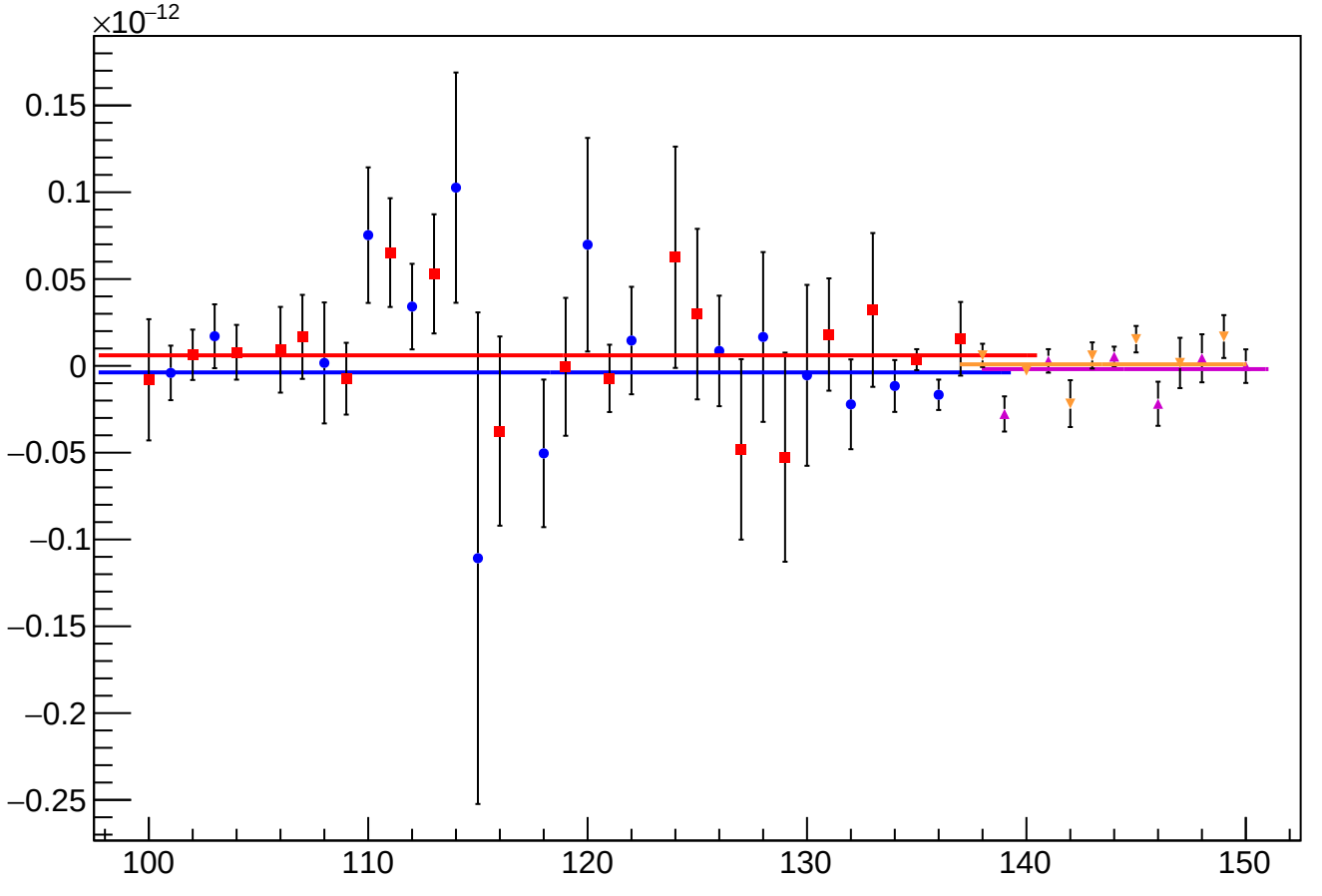
Left: 25.454+/-0.006 $\chi^2$/NDF: 1451148.3/12

Right: 21.415+/-0.004 $\chi^2$/NDF: 2852955.1/34

In: 22.868+/-0.005 $\chi^2$/NDF:2232205.6/21

Out: 22.804+/-0.005 $\chi^2$/NDF:2382472.3/25

All: 22.836+/-0.003 $\chi^2$/NDF: 4614764.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.3/5

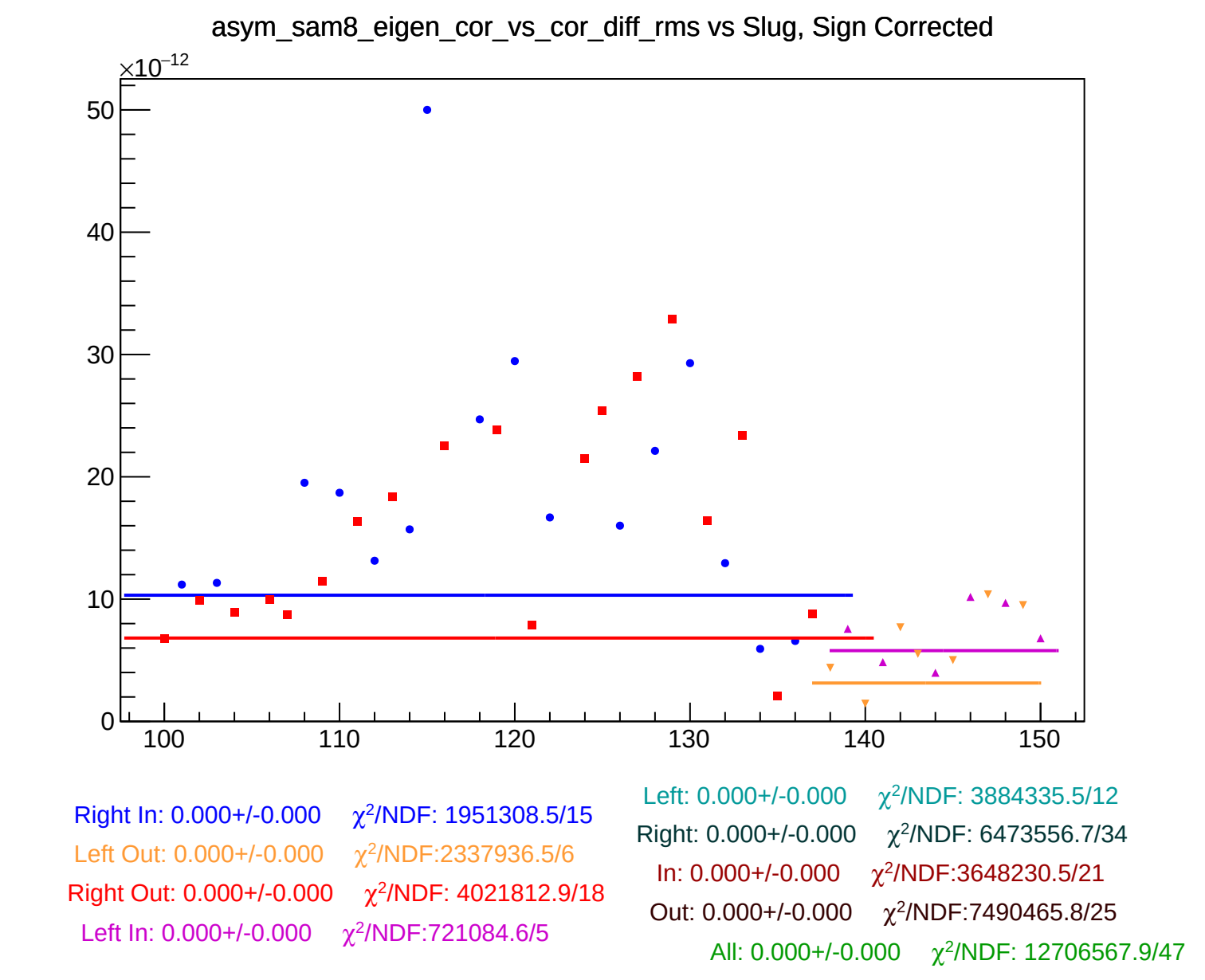
Left: 0.000+/-0.000 $\chi^2$/NDF: 22.5/12

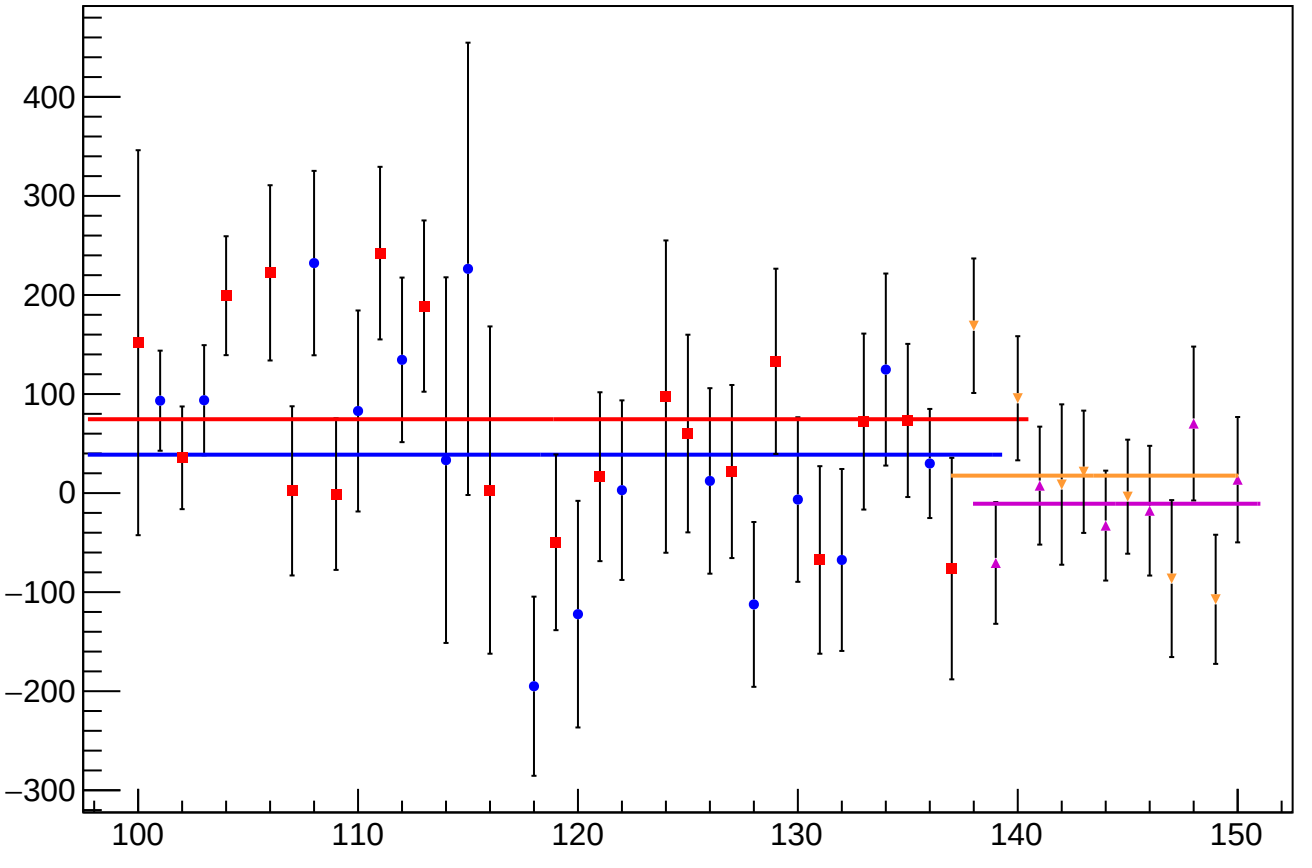
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:23.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.3/47


asym_sam8_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1951308.5/15
Left Out: 0.000+/-0.000 χ²/NDF:2337936.5/6
Right Out: 0.000+/-0.000 χ²/NDF: 4021812.9/18
Left In: 0.000+/-0.000 χ²/NDF:721084.6/5
Left: 0.000+/-0.000 χ²/NDF: 3884335.5/12
Right: 0.000+/-0.000 χ²/NDF: 6473556.7/34
In: 0.000+/-0.000 χ²/NDF:3648230.5/21
Out: 0.000+/-0.000 χ²/NDF:7490465.8/25
All: 0.000+/-0.000 χ²/NDF: 12706567.9/47




Right In: 38.782+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 17.633+/-25.134 $\chi^2$/NDF:12.1/6

Right Out: 74.578+/-19.802 $\chi^2$/NDF: 22.5/18

Left In: -10.743+/-25.648 $\chi^2$/NDF:2.4/5

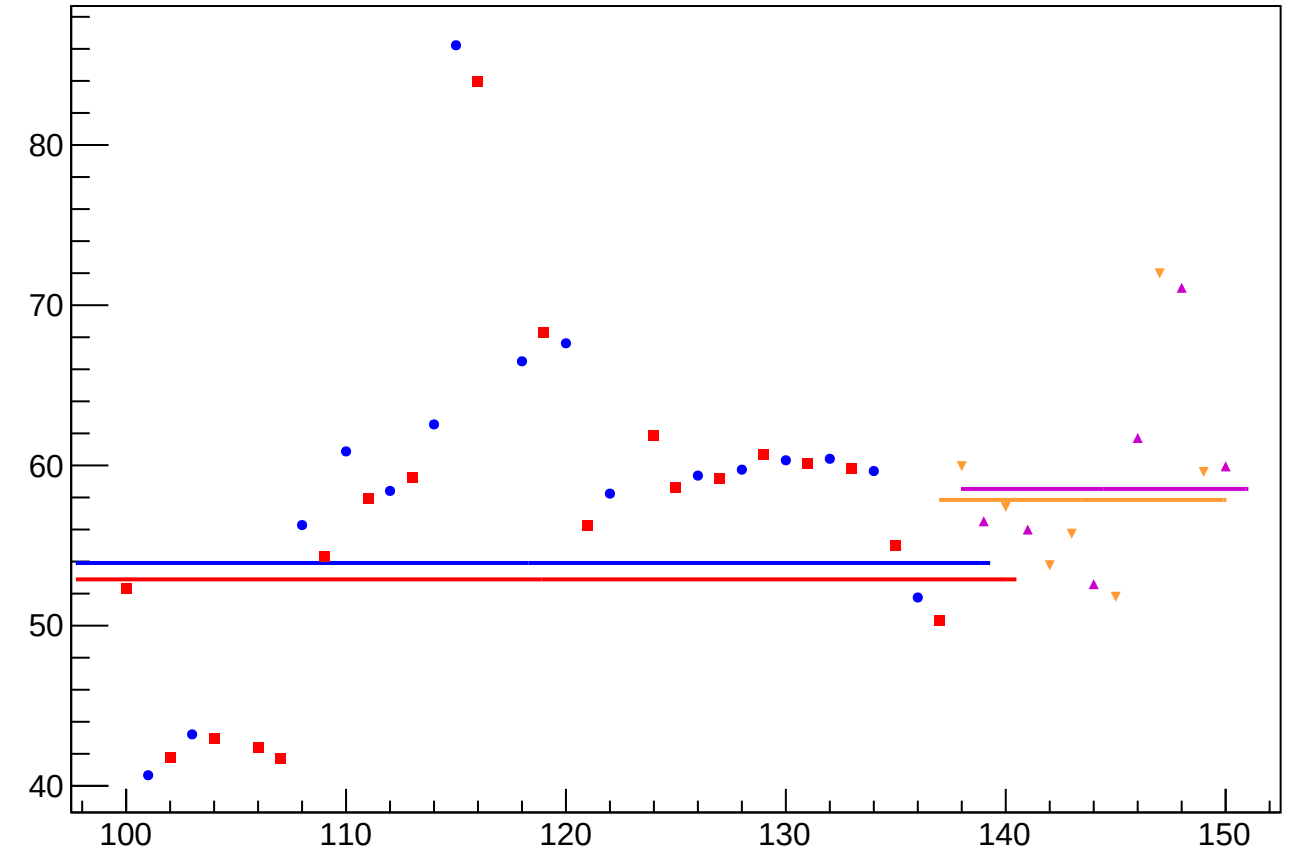
Left: 3.732+/-17.952 $\chi^2$/NDF: 15.1/12

Right: 57.224+/-14.213 $\chi^2$/NDF: 47.3/34

In: 19.577+/-15.972 $\chi^2$/NDF:28.0/21

Out: 52.769+/-15.554 $\chi^2$/NDF:37.7/25

All: 36.613+/-11.143 $\chi^2$/NDF: 67.9/47




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393261.4/15

Left Out: 57.850+/-0.018 $\chi^2$/NDF:96680.2/6

Right Out: 52.889+/-0.014 $\chi^2$/NDF: 425226.7/18

Left In: 58.532+/-0.018 $\chi^2$/NDF:86677.6/5

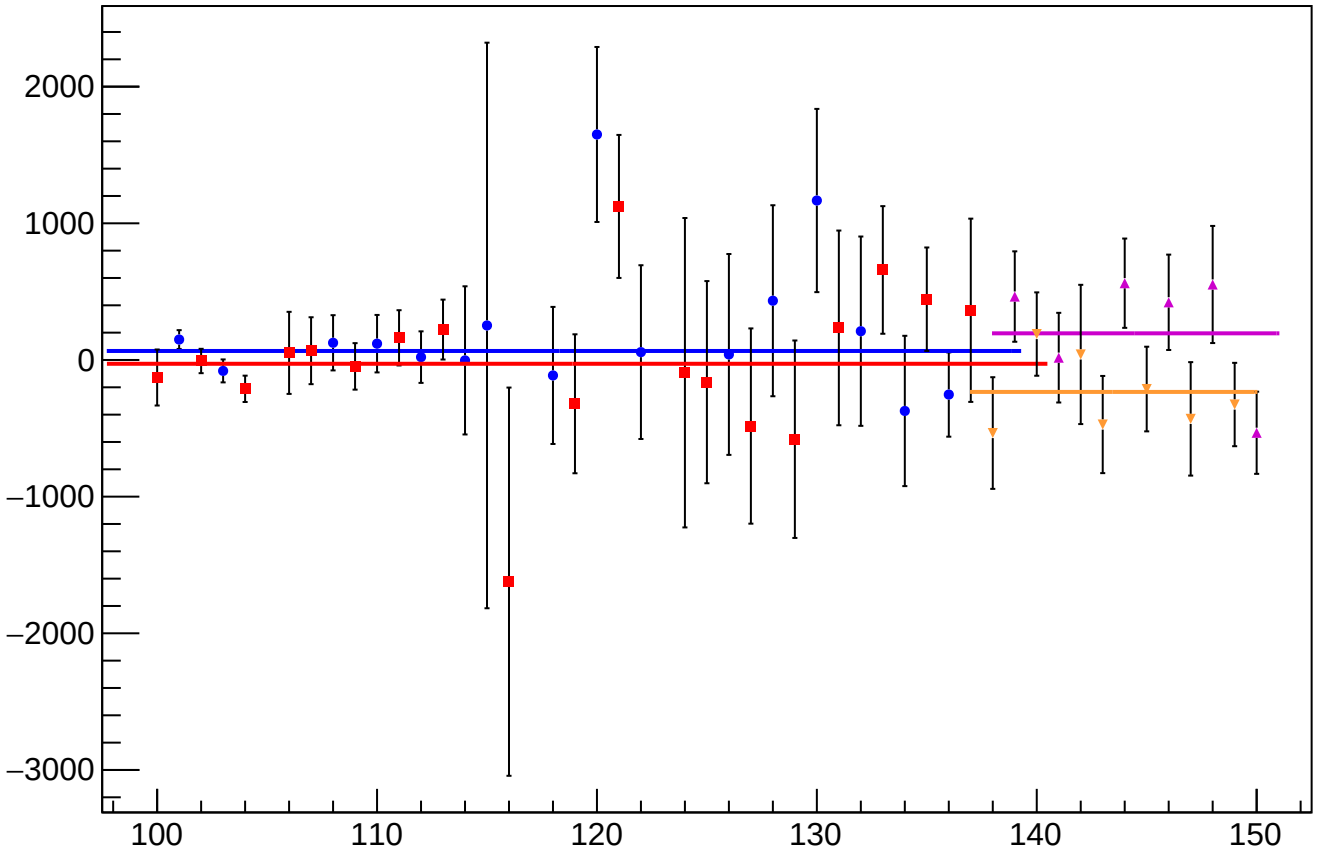
Left: 58.184+/-0.013 $\chi^2$/NDF: 184078.2/12

Right: 53.385+/-0.010 $\chi^2$/NDF: 821077.5/34

In: 55.704+/-0.011 $\chi^2$/NDF:519660.4/21

Out: 54.789+/-0.011 $\chi^2$/NDF:569991.5/25

All: 55.234+/-0.008 $\chi^2$/NDF: 1093018.1/47




Right In: 65.853+/-46.478 $\chi^2$/NDF: 15.7/15

Left Out: -233.735+/-134.260 $\chi^2$/NDF:3.5/6

Right Out: -27.850+/-50.291 $\chi^2$/NDF: 18.0/18

Left In: 194.975+/-137.985 $\chi^2$/NDF:9.2/5

Left: -25.245+/-96.226 $\chi^2$/NDF: 17.7/12

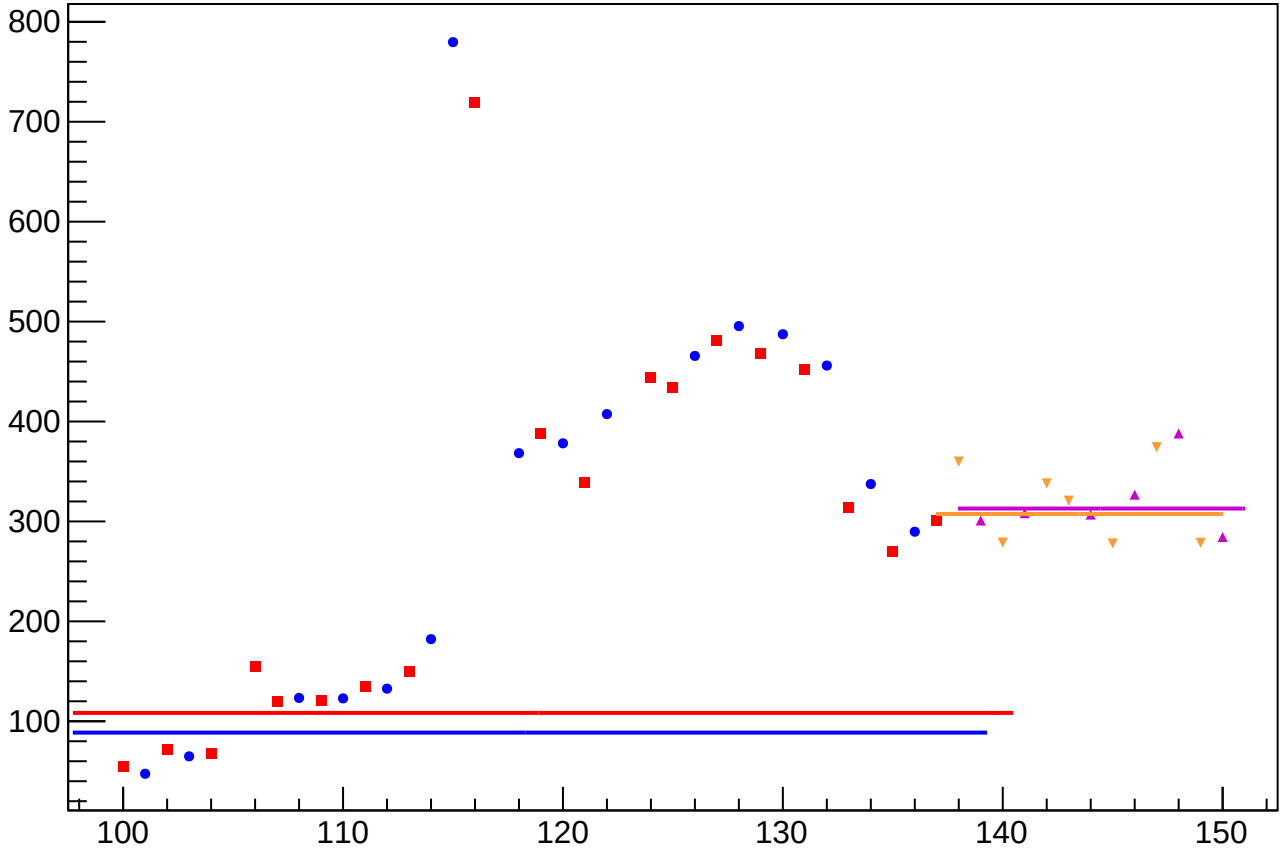
Right: 22.688+/-34.134 $\chi^2$/NDF: 35.6/34

In: 79.010+/-44.047 $\chi^2$/NDF:25.7/21

Out: -53.183+/-47.096 $\chi^2$/NDF:23.6/25

All: 17.331+/-32.170 $\chi^2$/NDF: 53.5/47

asym_sam_15_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 88.658+/-0.033 $\chi^2$/NDF: 6648055.6/15

Left Out: 307.436+/-0.095 $\chi^2$/NDF:148369.9/6

Right Out: 108.385+/-0.036 $\chi^2$/NDF: 5362841.6/18

Left In: 312.894+/-0.098 $\chi^2$/NDF:86364.6/5

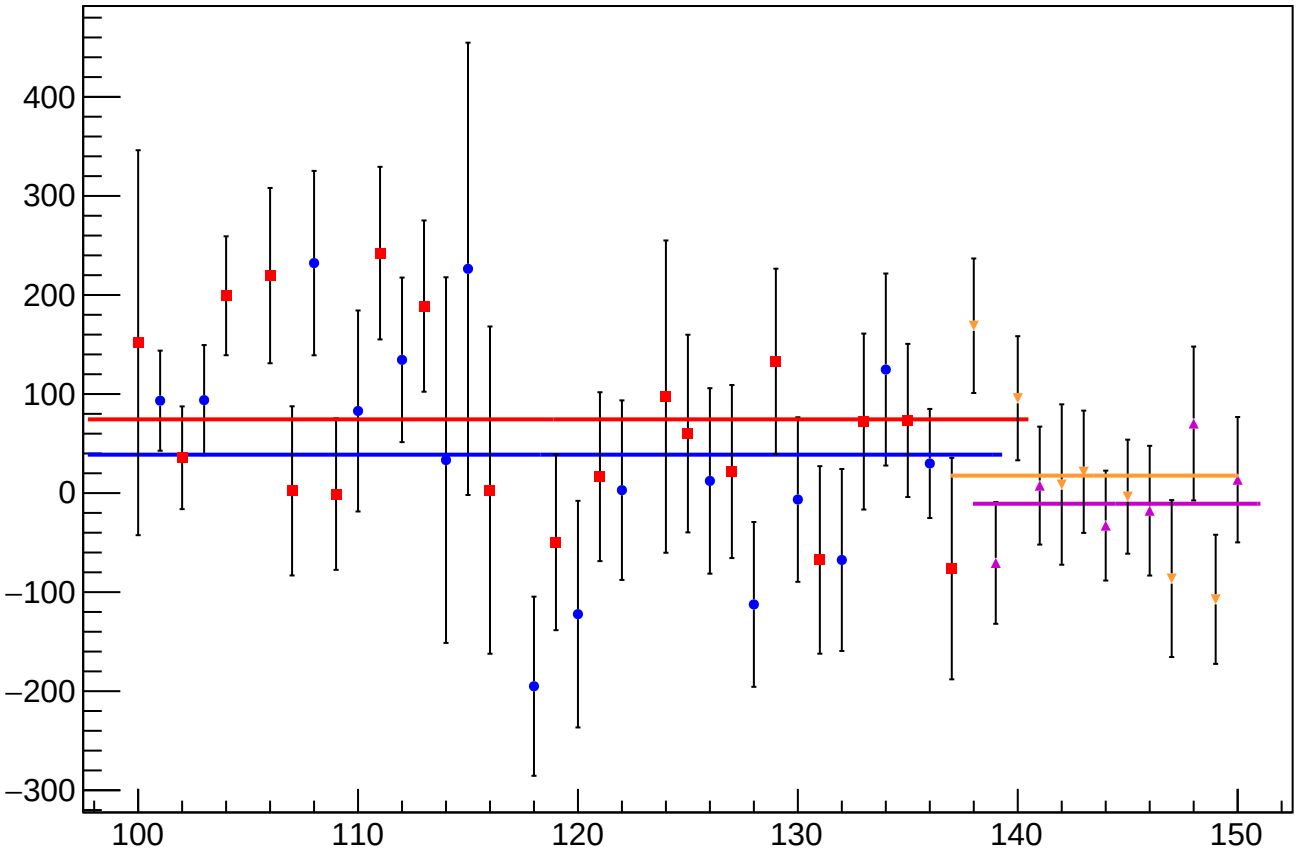
Left: 310.090+/-0.068 $\chi^2$/NDF: 236341.5/12

Right: 97.745+/-0.024 $\chi^2$/NDF: 12176874.0/34

In: 111.507+/-0.031 $\chi^2$/NDF:11477966.8/21

Out: 132.878+/-0.033 $\chi^2$/NDF:9366390.1/25

All: 121.478+/-0.023 $\chi^2$/NDF: 21064029.4/47




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 17.637+/-25.134 $\chi^2$/NDF:12.1/6

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: -10.743+/-25.648 $\chi^2$/NDF:2.4/5

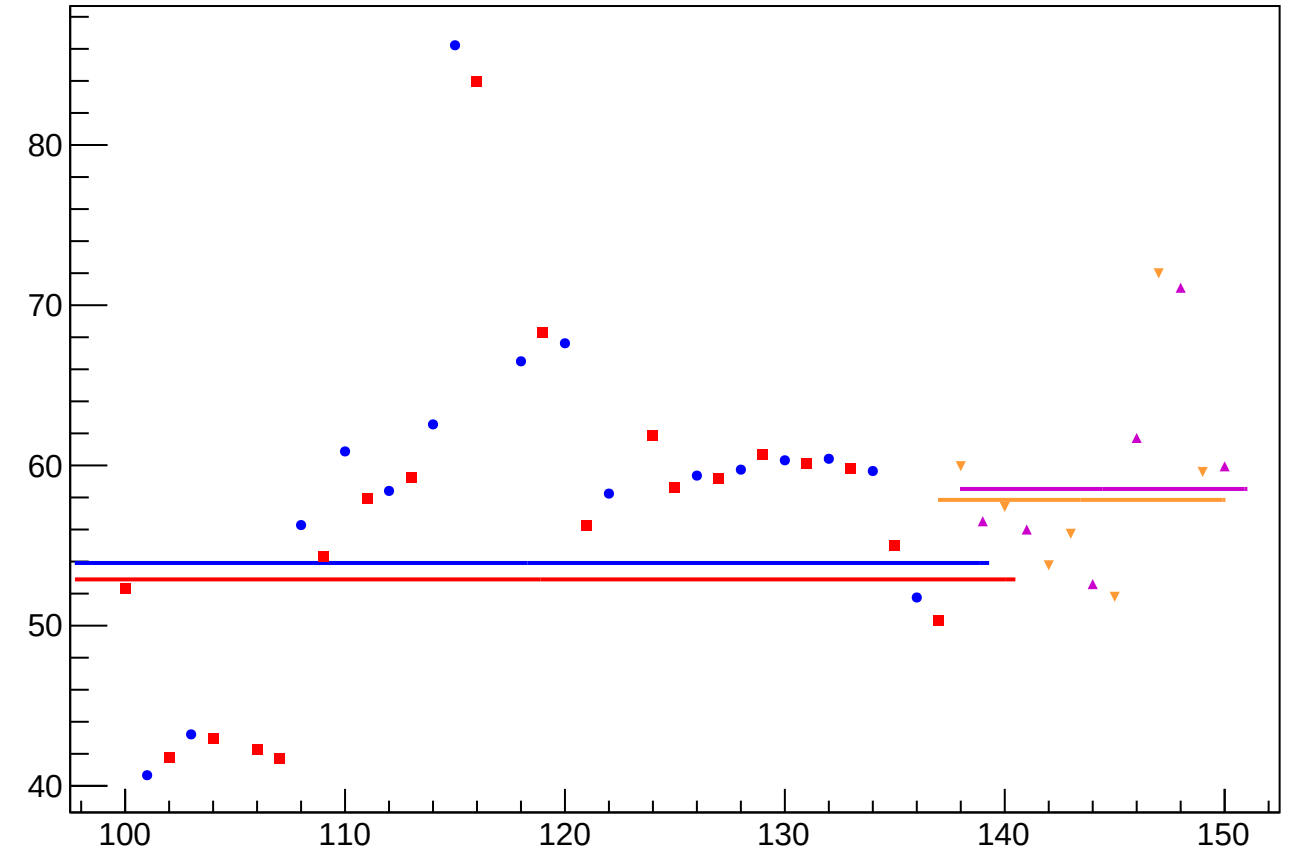
Left: 3.734+/-17.952 $\chi^2$/NDF: 15.1/12

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

In: 19.584+/-15.972 $\chi^2$/NDF:28.0/21

Out: 52.685+/-15.555 $\chi^2$/NDF:37.6/25

All: 36.572+/-11.144 $\chi^2$/NDF: 67.8/47




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393260.8/15

Left Out: 57.850+/-0.018 $\chi^2$/NDF:96680.2/6

Right Out: 52.887+/-0.014 $\chi^2$/NDF: 425534.3/18

Left In: 58.532+/-0.018 $\chi^2$/NDF:86677.6/5

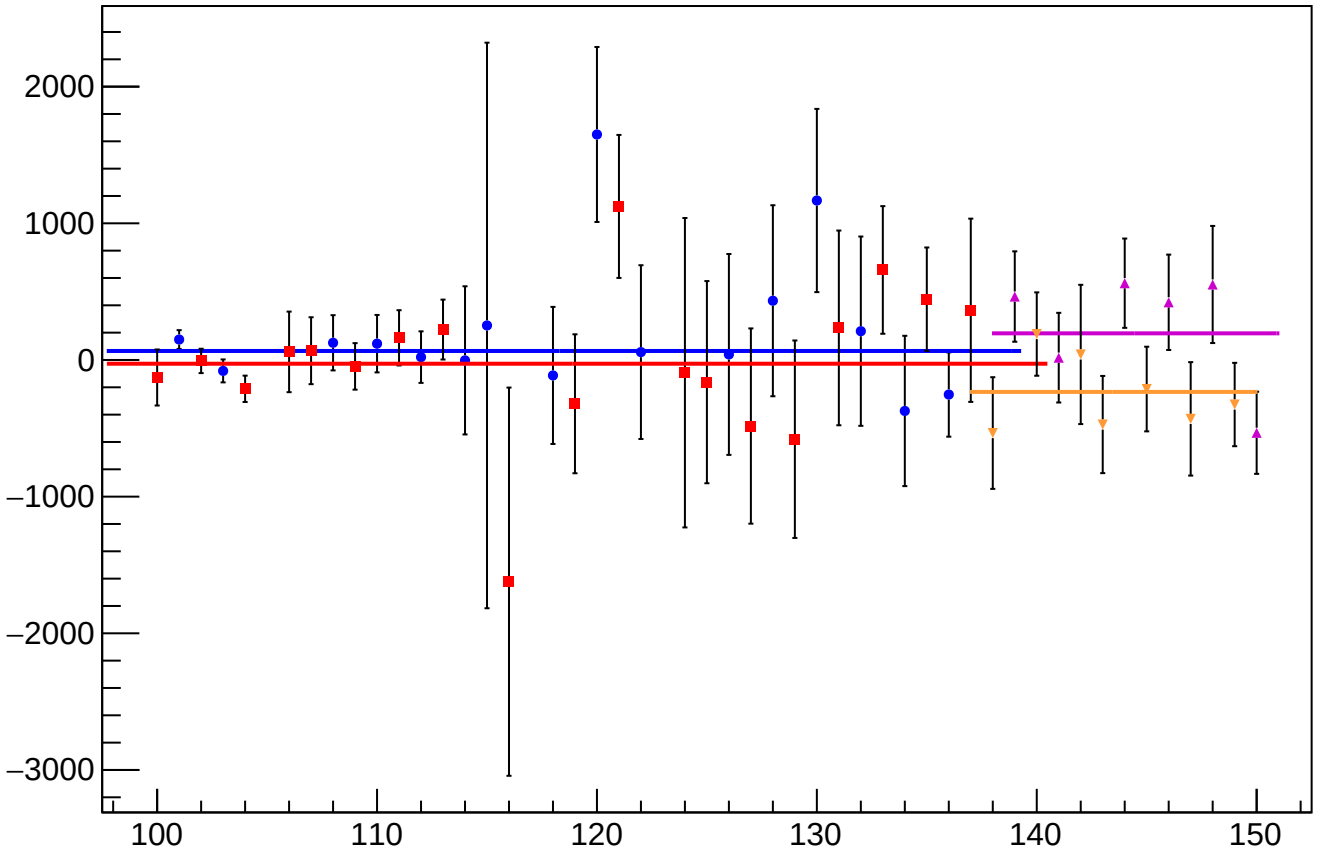
Left: 58.184+/-0.013 $\chi^2$/NDF: 184078.2/12

Right: 53.384+/-0.010 $\chi^2$/NDF: 821395.7/34

In: 55.704+/-0.011 $\chi^2$/NDF:519659.7/21

Out: 54.788+/-0.011 $\chi^2$/NDF:570340.0/25

All: 55.234+/-0.008 $\chi^2$/NDF: 1093374.6/47




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -233.733+/-134.260 $\chi^2$/NDF:3.5/6

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 194.972+/-137.985 $\chi^2$/NDF:9.2/5

Left: -25.246+/-96.226 $\chi^2$/NDF: 17.7/12

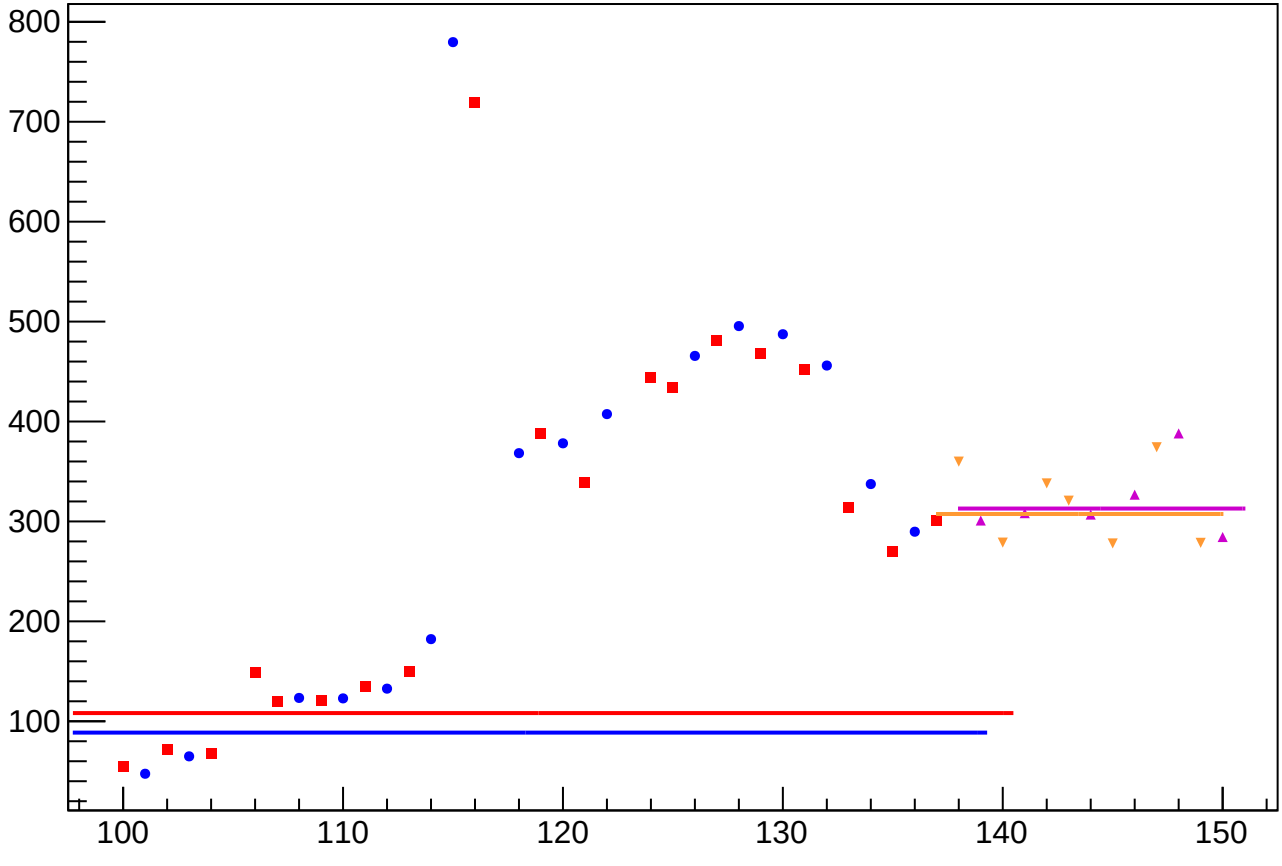
Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 79.013+/-44.046 $\chi^2$/NDF:25.7/21

Out: -52.756+/-47.061 $\chi^2$/NDF:23.6/25

All: 17.484+/-32.158 $\chi^2$/NDF: 53.5/47

asym_sam_15_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 88.655+/-0.033 $\chi^2$/NDF: 6648135.5/15

Left Out: 307.436+/-0.095 $\chi^2$/NDF:148369.5/6

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 312.894+/-0.098 $\chi^2$/NDF:86366.2/5

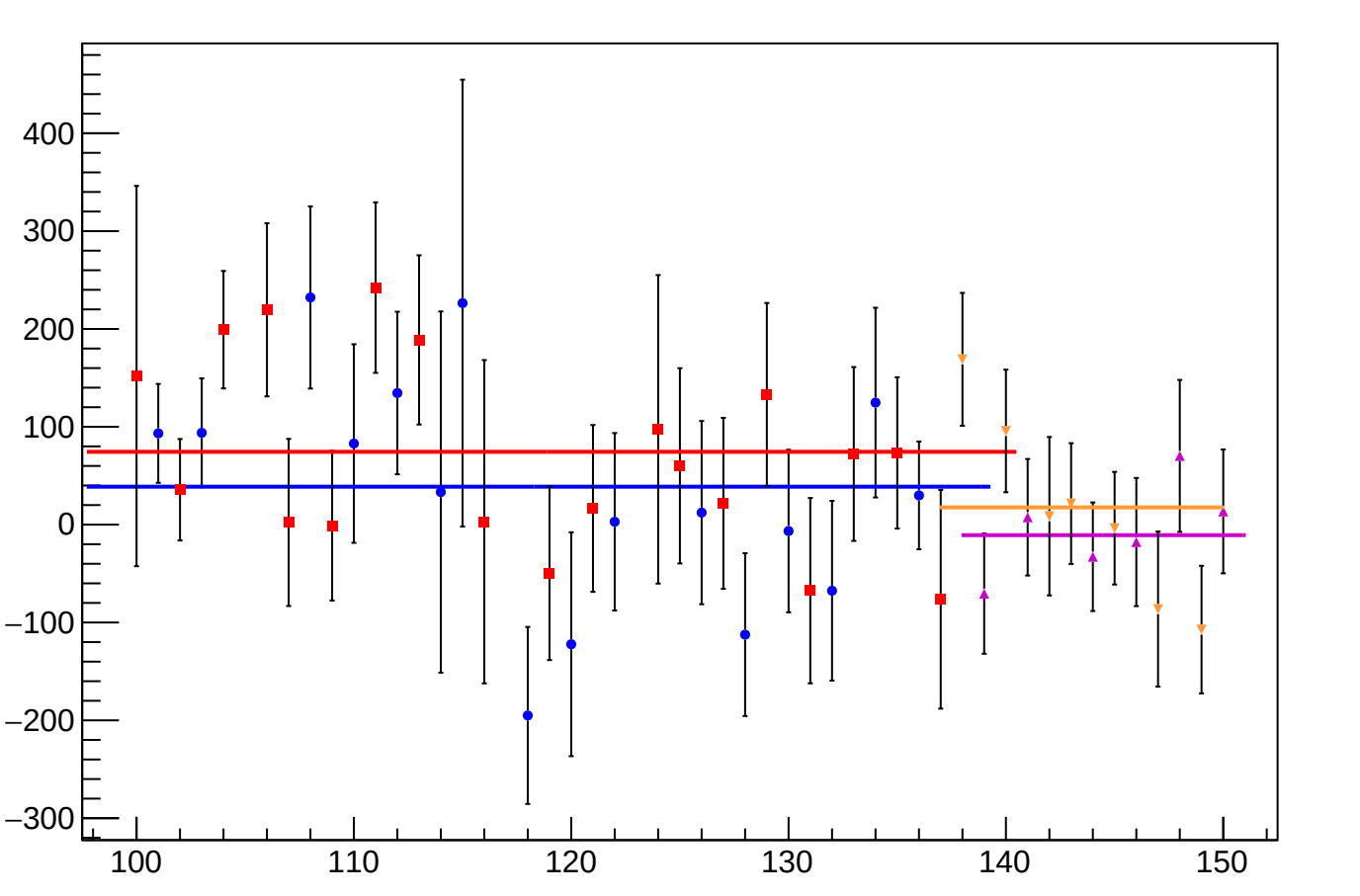
Left: 310.090+/-0.068 $\chi^2$/NDF: 236342.6/12

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 111.504+/-0.031 $\chi^2$/NDF:11478171.8/21

Out: 132.685+/-0.033 $\chi^2$/NDF:9366141.5/25

All: 121.394+/-0.023 $\chi^2$/NDF: 21060273.4/47




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 17.637+/-25.134 $\chi^2$/NDF:12.1/6

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: -10.743+/-25.648 $\chi^2$/NDF:2.4/5

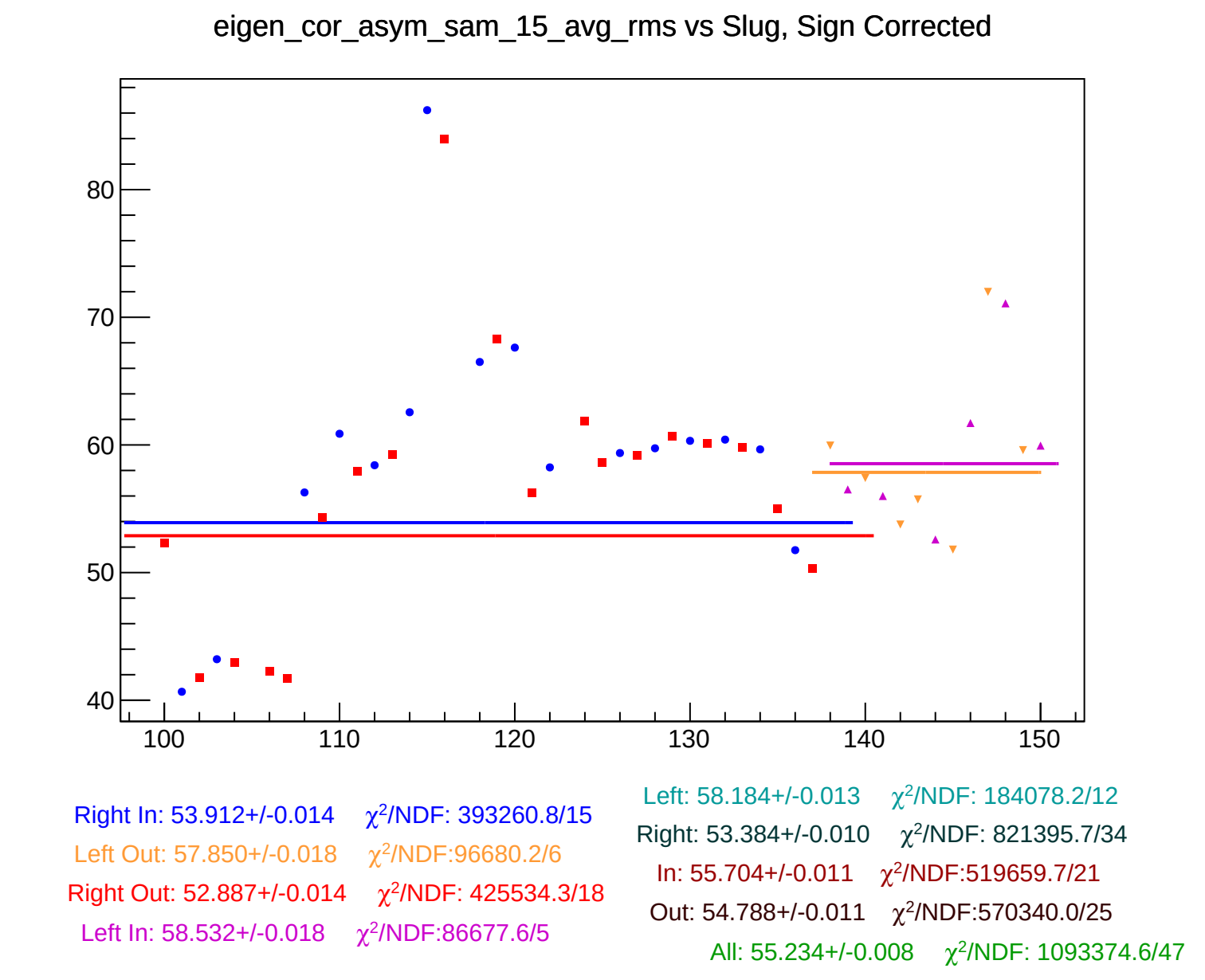
Left: 3.734+/-17.952 $\chi^2$/NDF: 15.1/12

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

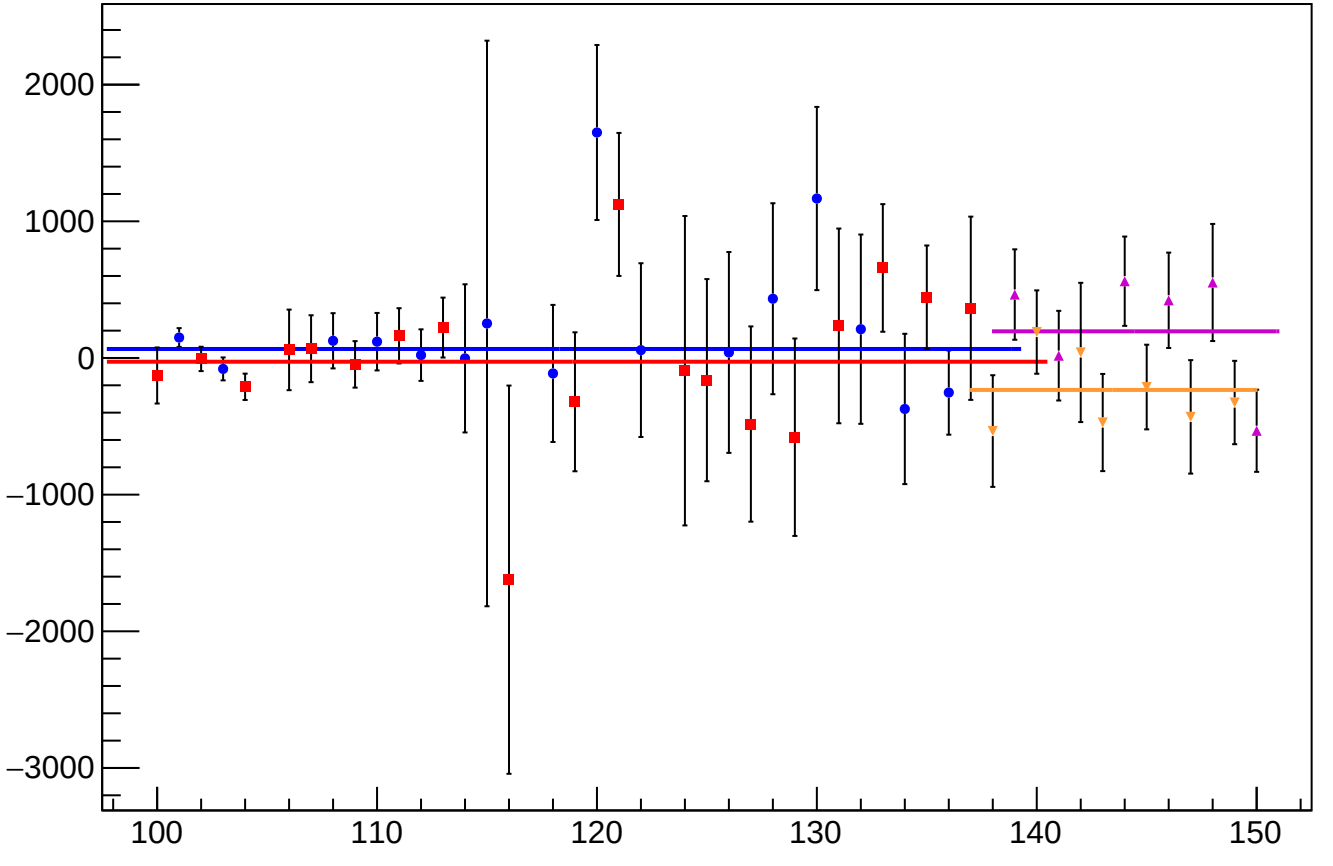
In: 19.584+/-15.972 $\chi^2$/NDF:28.0/21

Out: 52.685+/-15.555 $\chi^2$/NDF:37.6/25

All: 36.572+/-11.144 $\chi^2$/NDF: 67.8/47


eigen_cor_asym_sam_15_avg_rms vs Slug, Sign Corrected
80
70
60
50
40
100
110
120
130
140
150
Right In: 53.912+/-0.014 χ²/NDF: 393260.8/15
Left Out: 57.850+/-0.018 χ²/NDF:96680.2/6
Right Out: 52.887+/-0.014 χ²/NDF: 425534.3/18
Left In: 58.532+/-0.018 χ²/NDF:86677.6/5
Left: 58.184+/-0.013 χ²/NDF: 184078.2/12
Right: 53.384+/-0.010 χ²/NDF: 821395.7/34
In: 55.704+/-0.011 χ²/NDF:519659.7/21
Out: 54.788+/-0.011 χ²/NDF:570340.0/25
All: 55.234+/-0.008 χ²/NDF: 1093374.6/47

asym_sam_15_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -233.733+/-134.260 $\chi^2$/NDF:3.5/6

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 194.972+/-137.985 $\chi^2$/NDF:9.2/5

Left: -25.246+/-96.226 $\chi^2$/NDF: 17.7/12

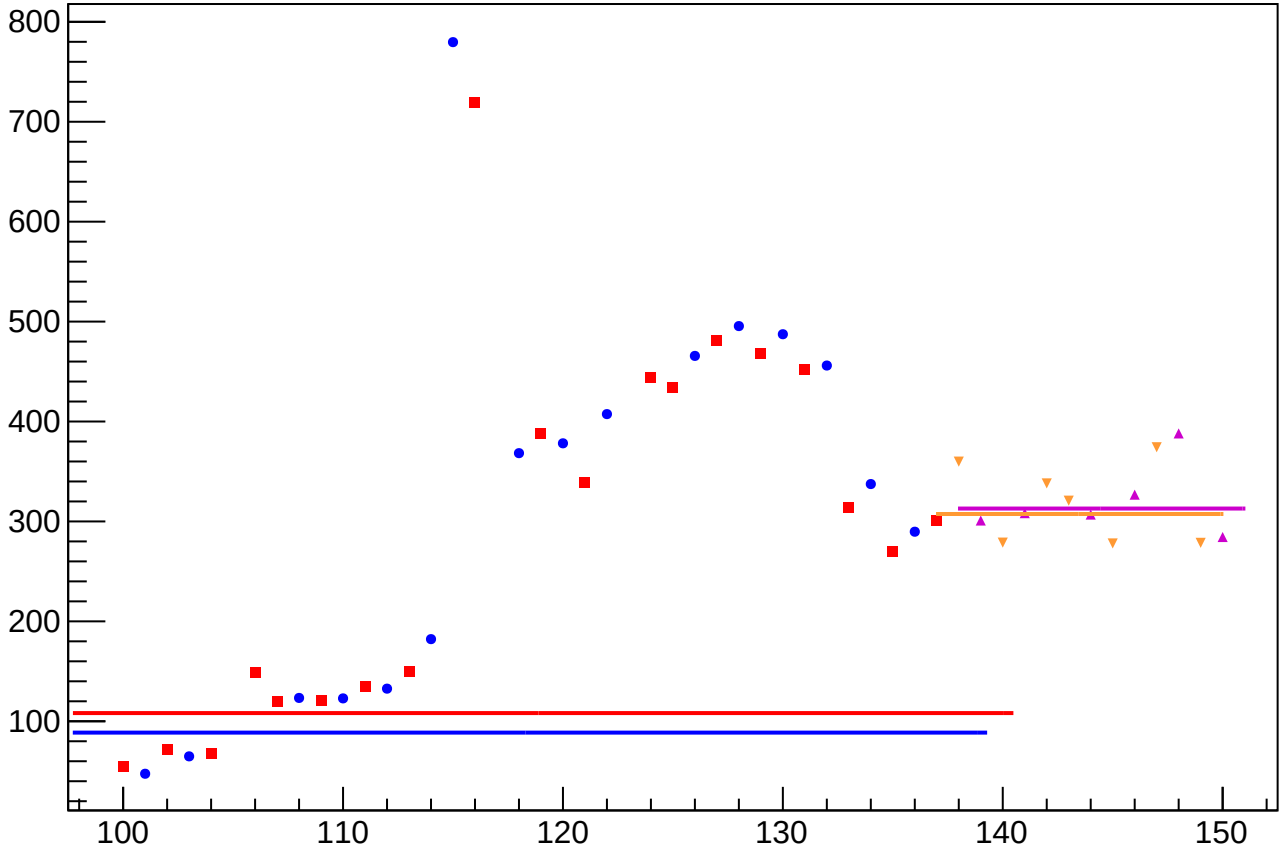
Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 79.013+/-44.046 $\chi^2$/NDF:25.7/21

Out: -52.756+/-47.061 $\chi^2$/NDF:23.6/25

All: 17.484+/-32.158 $\chi^2$/NDF: 53.5/47

asym_sam_15_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 88.655+/-0.033 $\chi^2$/NDF: 6648135.5/15

Left Out: 307.436+/-0.095 $\chi^2$/NDF:148369.5/6

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 312.894+/-0.098 $\chi^2$/NDF:86366.2/5

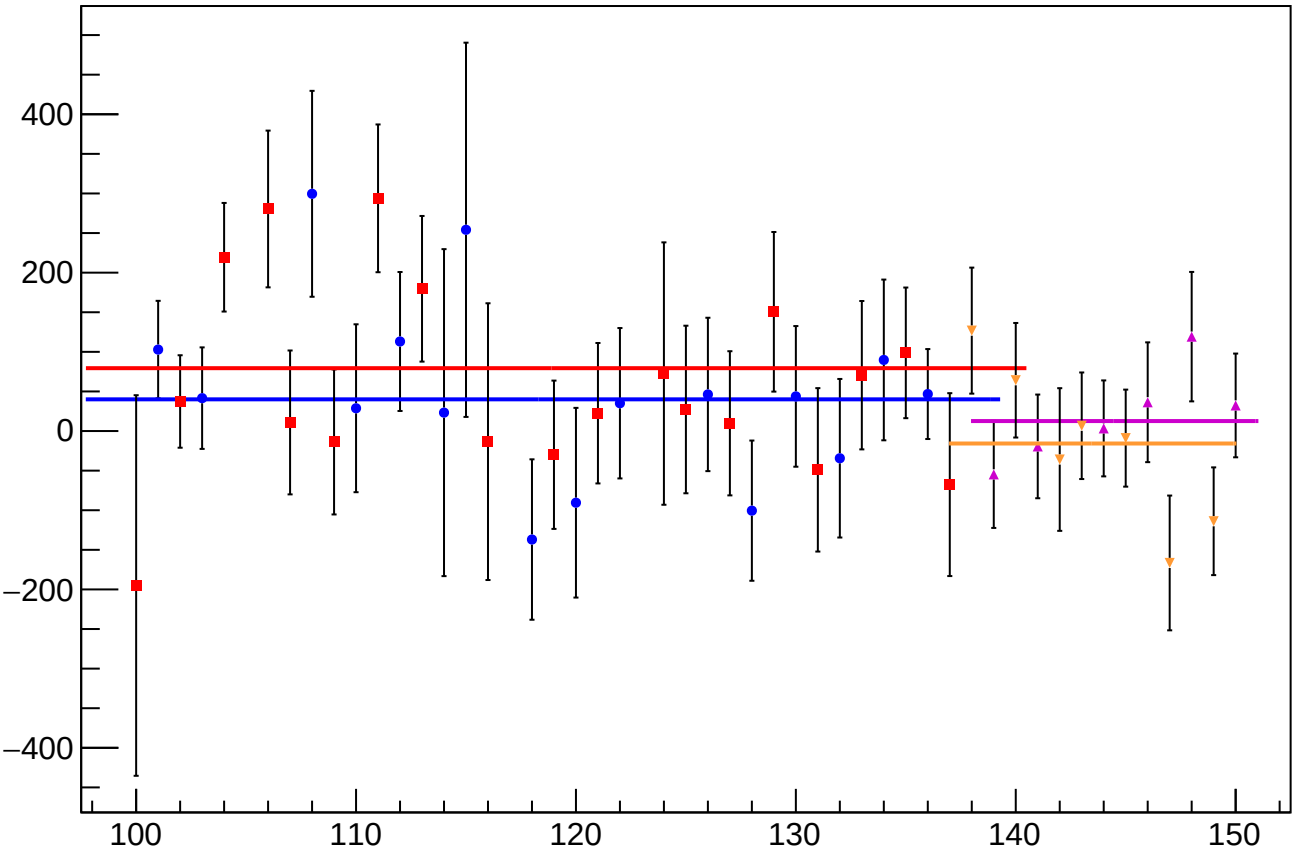
Left: 310.090+/-0.068 $\chi^2$/NDF: 236342.6/12

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 111.504+/-0.031 $\chi^2$/NDF:11478171.8/21

Out: 132.685+/-0.033 $\chi^2$/NDF:9366141.5/25

All: 121.394+/-0.023 $\chi^2$/NDF: 21060273.4/47




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: -15.744+/-27.588 $\chi^2$/NDF:9.8/6

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: 12.603+/-27.929 $\chi^2$/NDF:3.1/5

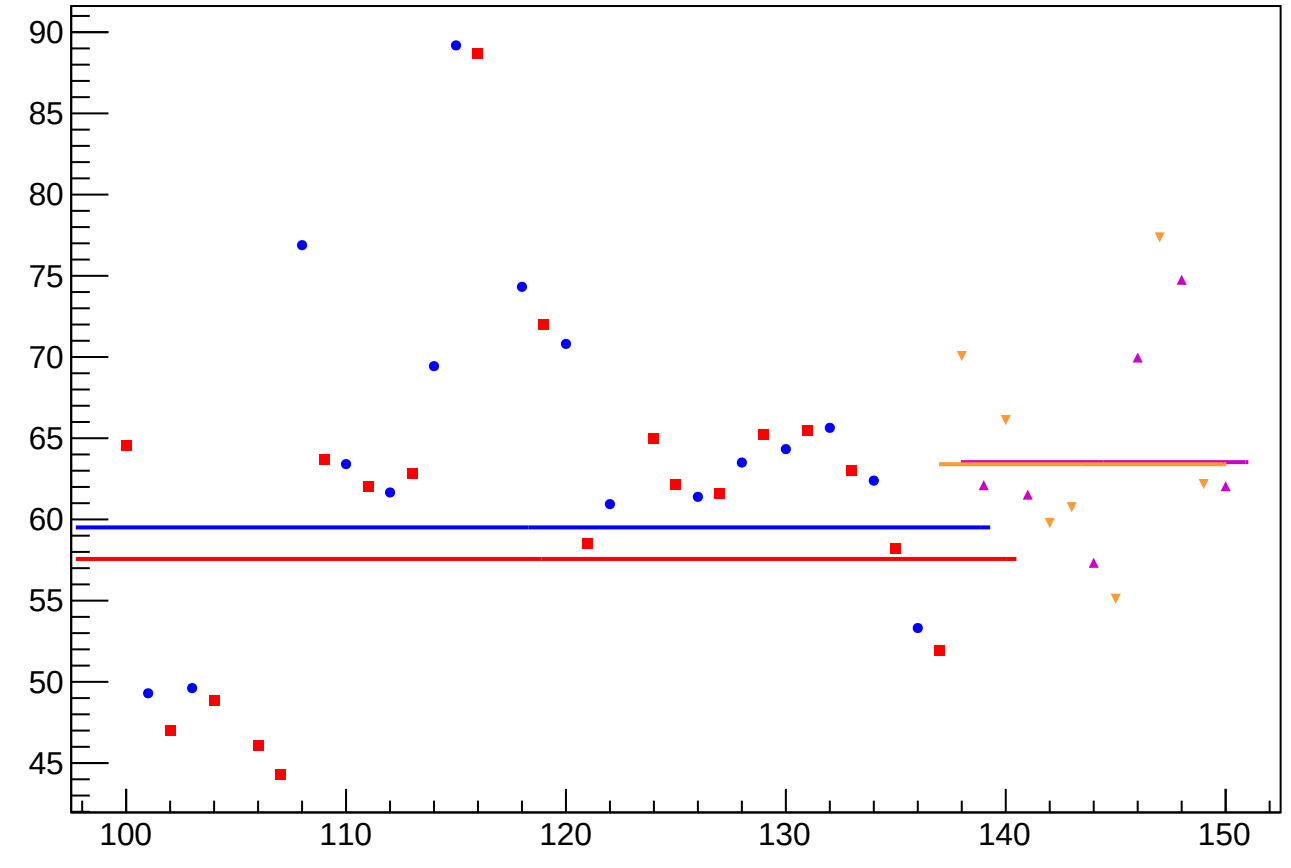
Left: -1.745+/-19.627 $\chi^2$/NDF: 13.5/12

Right: 60.541+/-15.578 $\chi^2$/NDF: 40.5/34

In: 29.227+/-17.528 $\chi^2$/NDF:17.9/21

Out: 43.276+/-16.996 $\chi^2$/NDF:42.0/25

All: 36.468+/-12.202 $\chi^2$/NDF: 60.2/47




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283192.7/15

Left Out: 63.399+/-0.020 $\chi^2$/NDF:114201.9/6

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347377.8/18

Left In: 63.527+/-0.020 $\chi^2$/NDF:76941.9/5

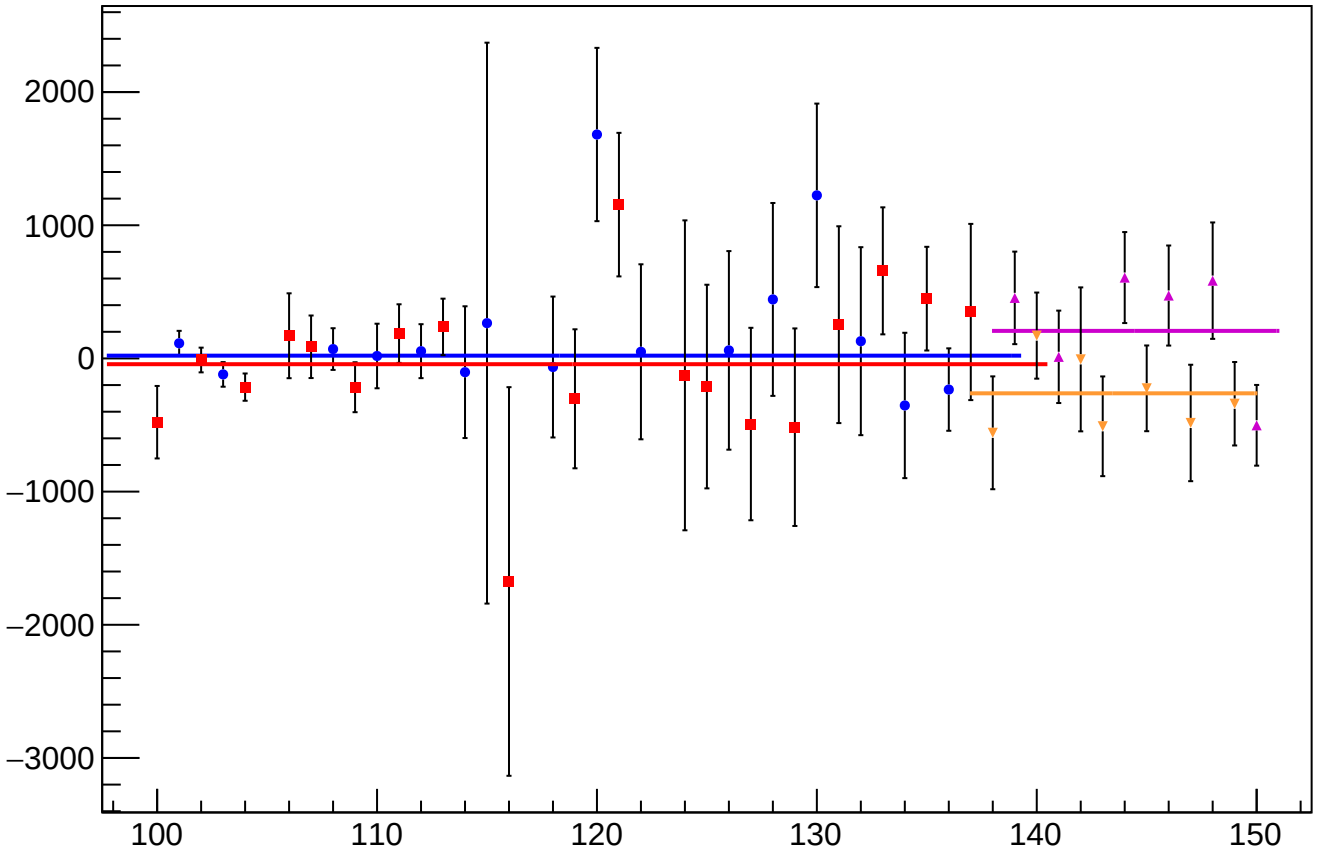
Left: 63.462+/-0.014 $\chi^2$/NDF: 191165.1/12

Right: 58.497+/-0.011 $\chi^2$/NDF: 638326.1/34

In: 61.091+/-0.012 $\chi^2$/NDF:385225.0/21

Out: 59.780+/-0.012 $\chi^2$/NDF:517030.7/25

All: 60.416+/-0.009 $\chi^2$/NDF: 908023.8/47




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -261.954+/-140.348 $\chi^2$/NDF:3.3/6

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 206.871+/-143.792 $\chi^2$/NDF:8.9/5

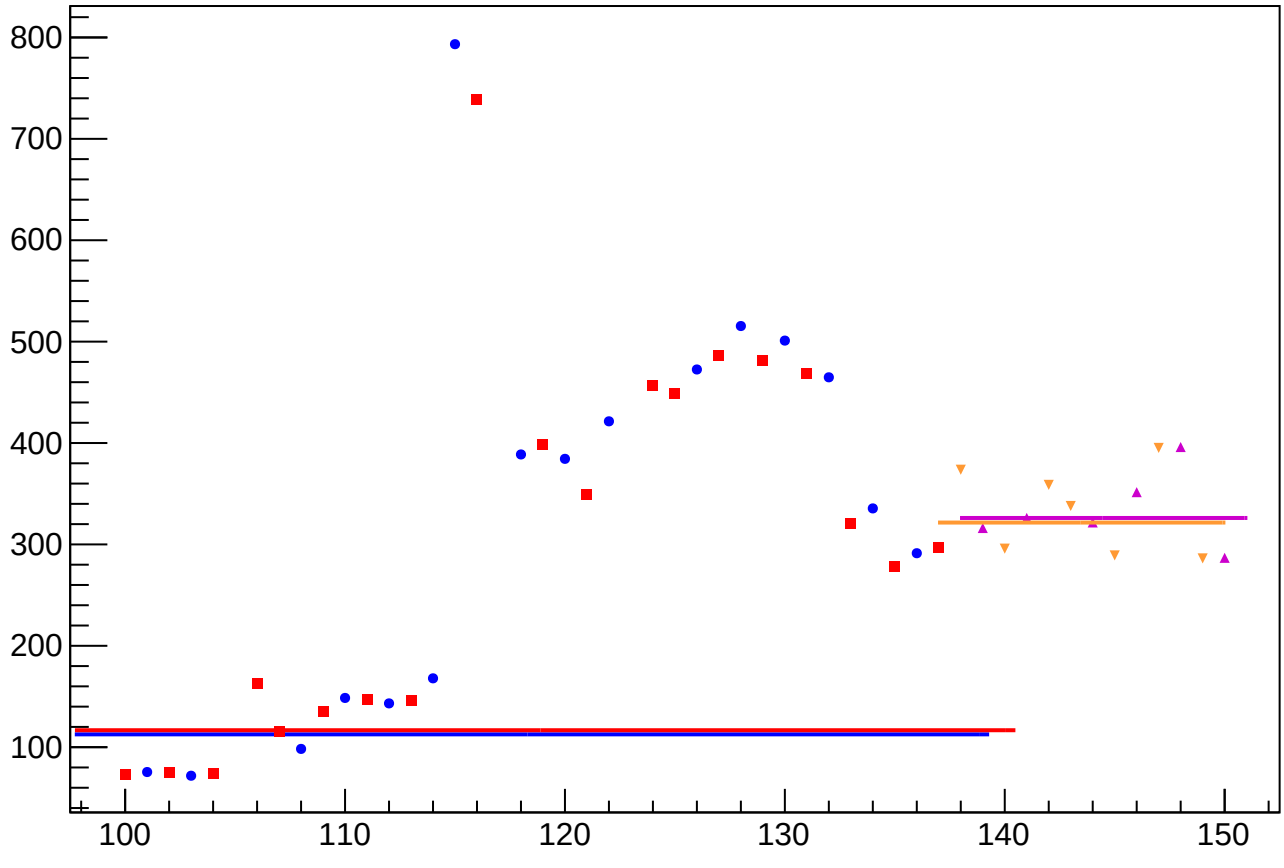
Left: -33.223+/-100.436 $\chi^2$/NDF: 17.6/12

Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 43.525+/-50.212 $\chi^2$/NDF:25.0/21

Out: -70.746+/-49.754 $\chi^2$/NDF:26.9/25

All: -14.134+/-35.342 $\chi^2$/NDF: 54.5/47




Right In: 112.668+/-0.038 $\chi^2$/NDF: 5599655.1/15

Left Out: 321.558+/-0.099 $\chi^2$/NDF:158643.8/6

Right Out: 116.733+/-0.038 $\chi^2$/NDF: 5141387.7/18

Left In: 326.077+/-0.102 $\chi^2$/NDF:96007.9/5

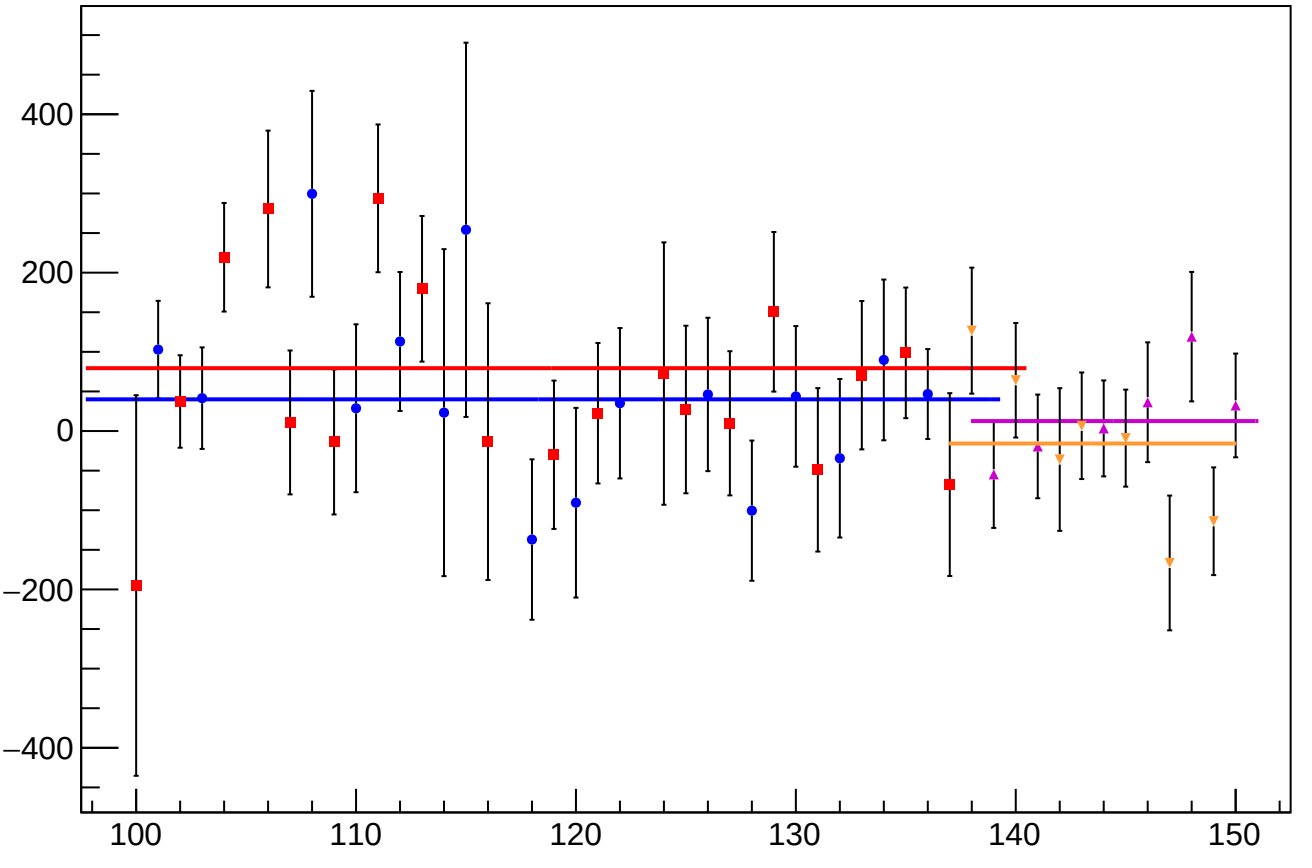
Left: 323.763+/-0.071 $\chi^2$/NDF: 255663.2/12

Right: 114.715+/-0.027 $\chi^2$/NDF: 10746836.7/34

In: 138.691+/-0.036 $\chi^2$/NDF:9563882.7/21

Out: 142.474+/-0.035 $\chi^2$/NDF:9024459.8/25

All: 140.600+/-0.025 $\chi^2$/NDF: 18594071.2/47




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: -15.744+/-27.588 $\chi^2$/NDF:9.8/6

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: 12.603+/-27.929 $\chi^2$/NDF:3.1/5

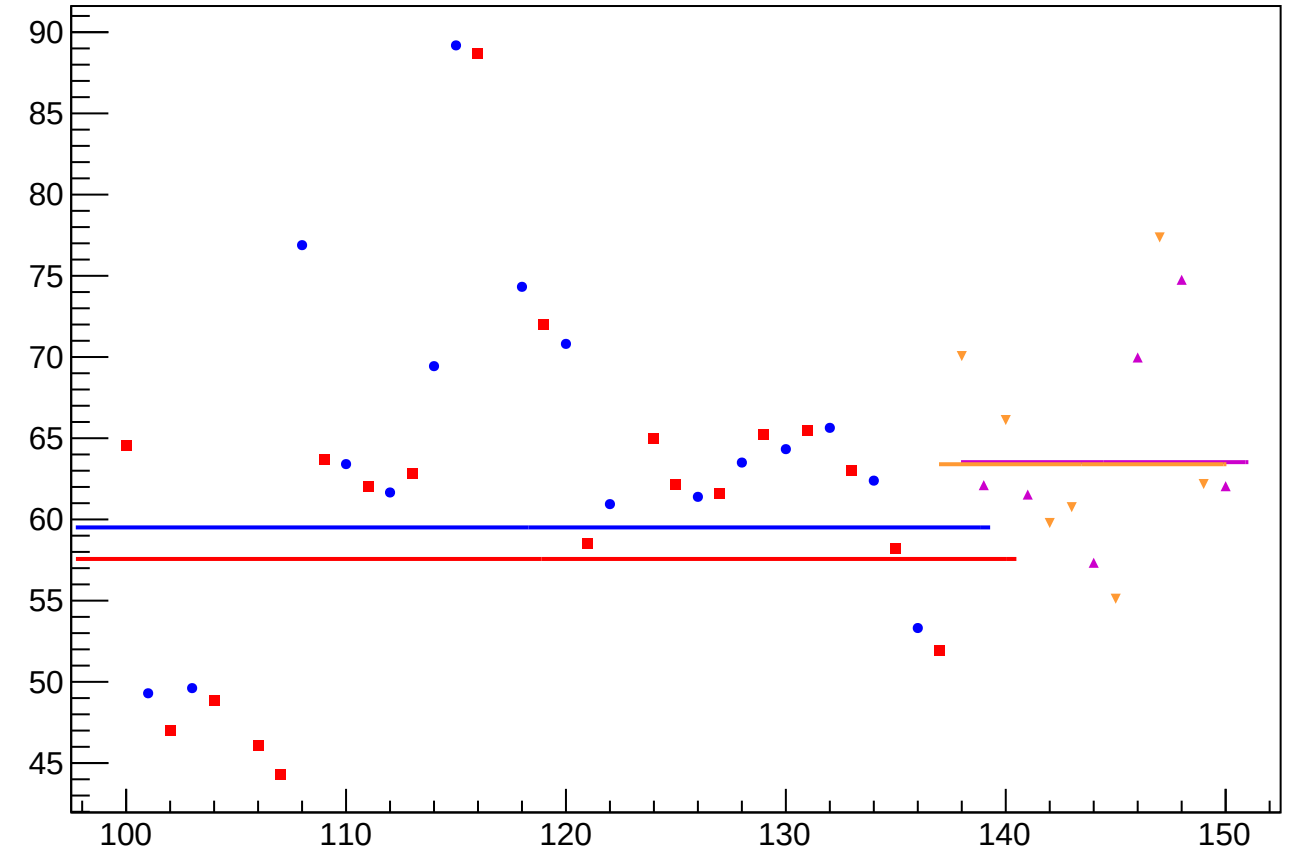
Left: -1.745+/-19.627 $\chi^2$/NDF: 13.5/12

Right: 60.540+/-15.578 $\chi^2$/NDF: 40.5/34

In: 29.227+/-17.528 $\chi^2$/NDF:17.9/21

Out: 43.275+/-16.996 $\chi^2$/NDF:42.0/25

All: 36.468+/-12.202 $\chi^2$/NDF: 60.2/47




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283190.4/15

Left Out: 63.399+/-0.020 $\chi^2$/NDF:114205.9/6

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347374.2/18

Left In: 63.527+/-0.020 $\chi^2$/NDF:76942.2/5

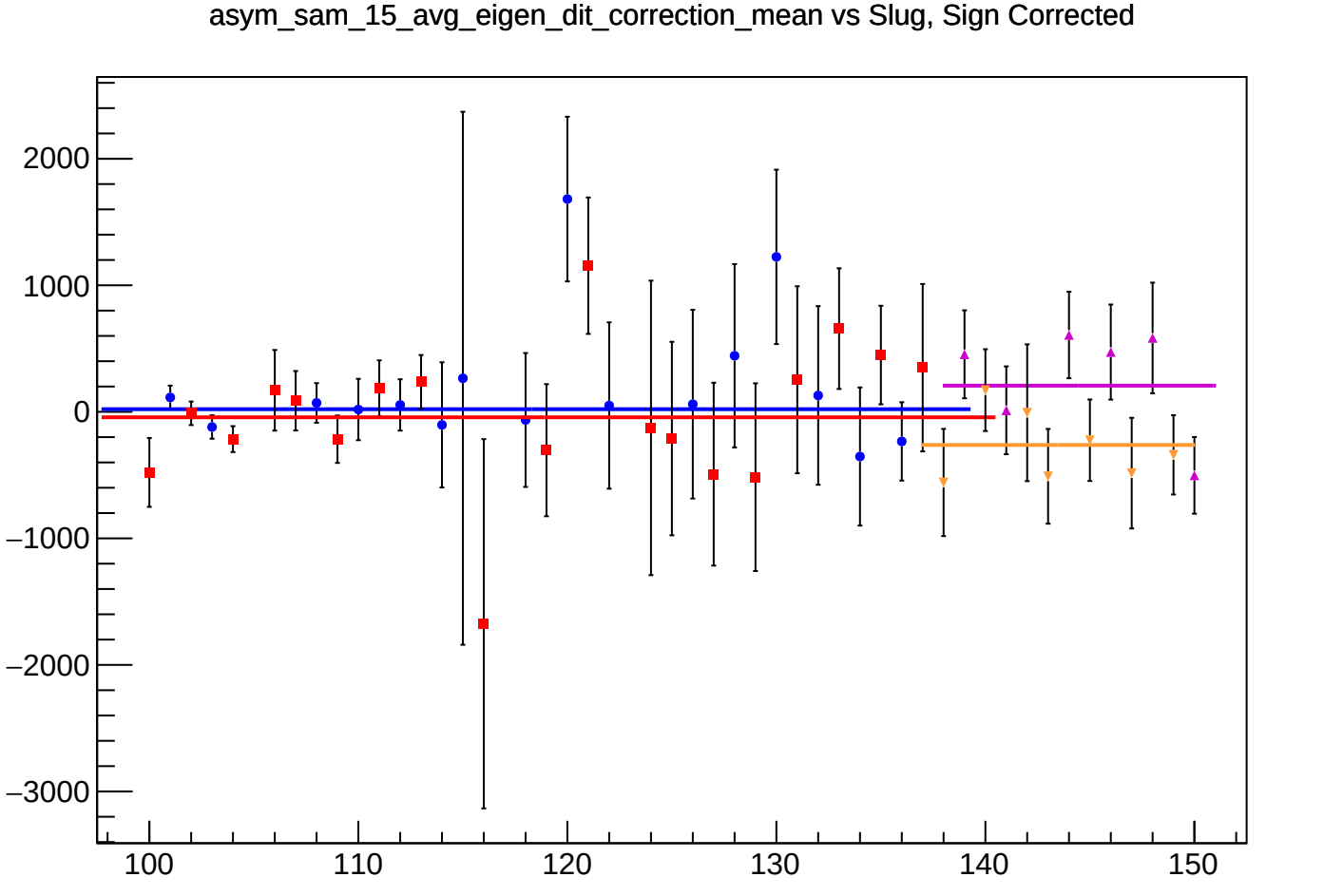
Left: 63.462+/-0.014 $\chi^2$/NDF: 191169.4/12

Right: 58.496+/-0.011 $\chi^2$/NDF: 638320.1/34

In: 61.091+/-0.012 $\chi^2$/NDF:385227.4/21

Out: 59.780+/-0.012 $\chi^2$/NDF:517036.0/25

All: 60.416+/-0.009 $\chi^2$/NDF: 908031.6/47




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -261.955+/-140.348 $\chi^2$/NDF:3.3/6

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 206.871+/-143.792 $\chi^2$/NDF:8.9/5

Left: -33.223+/-100.437 $\chi^2$/NDF: 17.6/12

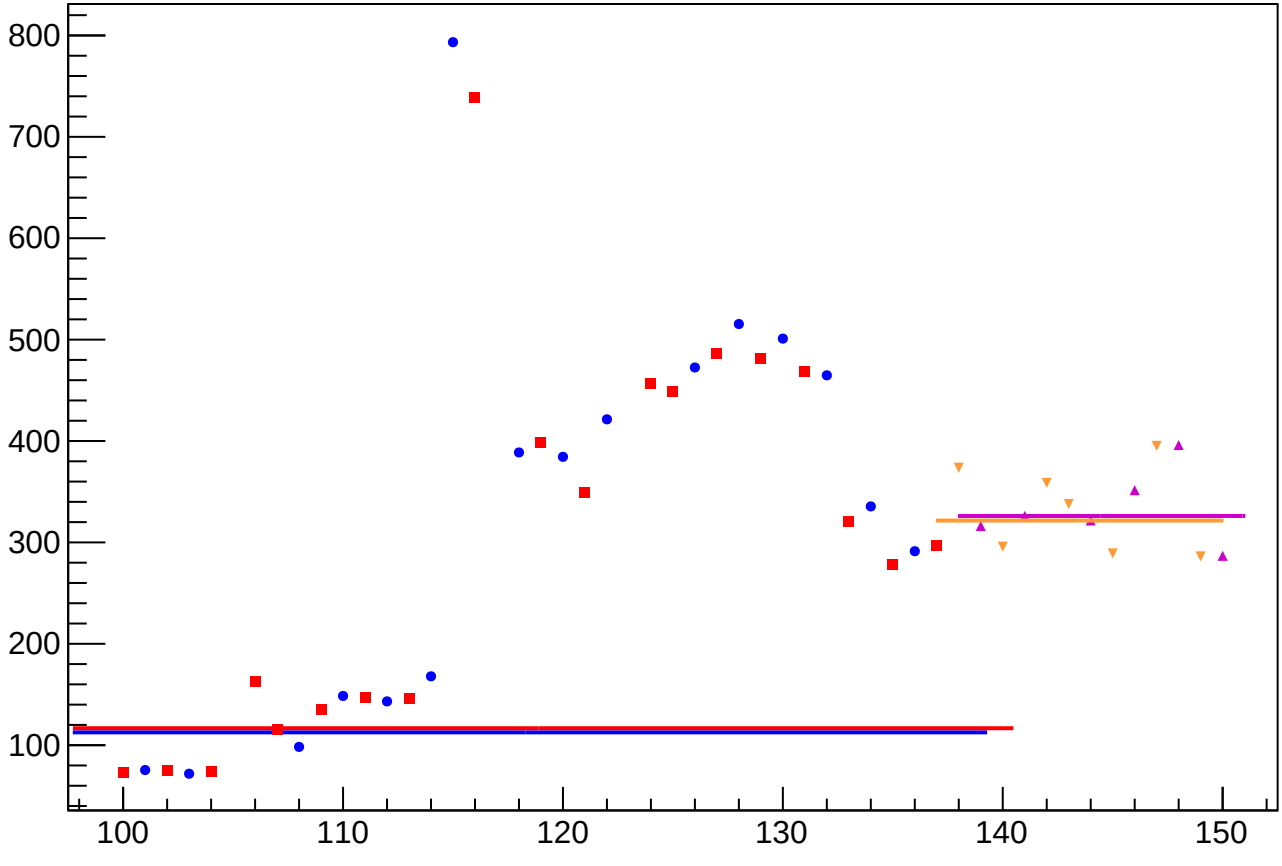
Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 43.524+/-50.212 $\chi^2$/NDF:25.0/21

Out: -70.746+/-49.754 $\chi^2$/NDF:26.9/25

All: -14.134+/-35.342 $\chi^2$/NDF: 54.5/47

asym_sam_15_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 112.668+/-0.038 $\chi^2$/NDF: 5599653.6/15

Left Out: 321.559+/-0.099 $\chi^2$/NDF:158644.3/6

Right Out: 116.732+/-0.038 $\chi^2$/NDF: 5141390.3/18

Left In: 326.078+/-0.102 $\chi^2$/NDF:96008.1/5

Left: 323.764+/-0.071 $\chi^2$/NDF: 255663.9/12

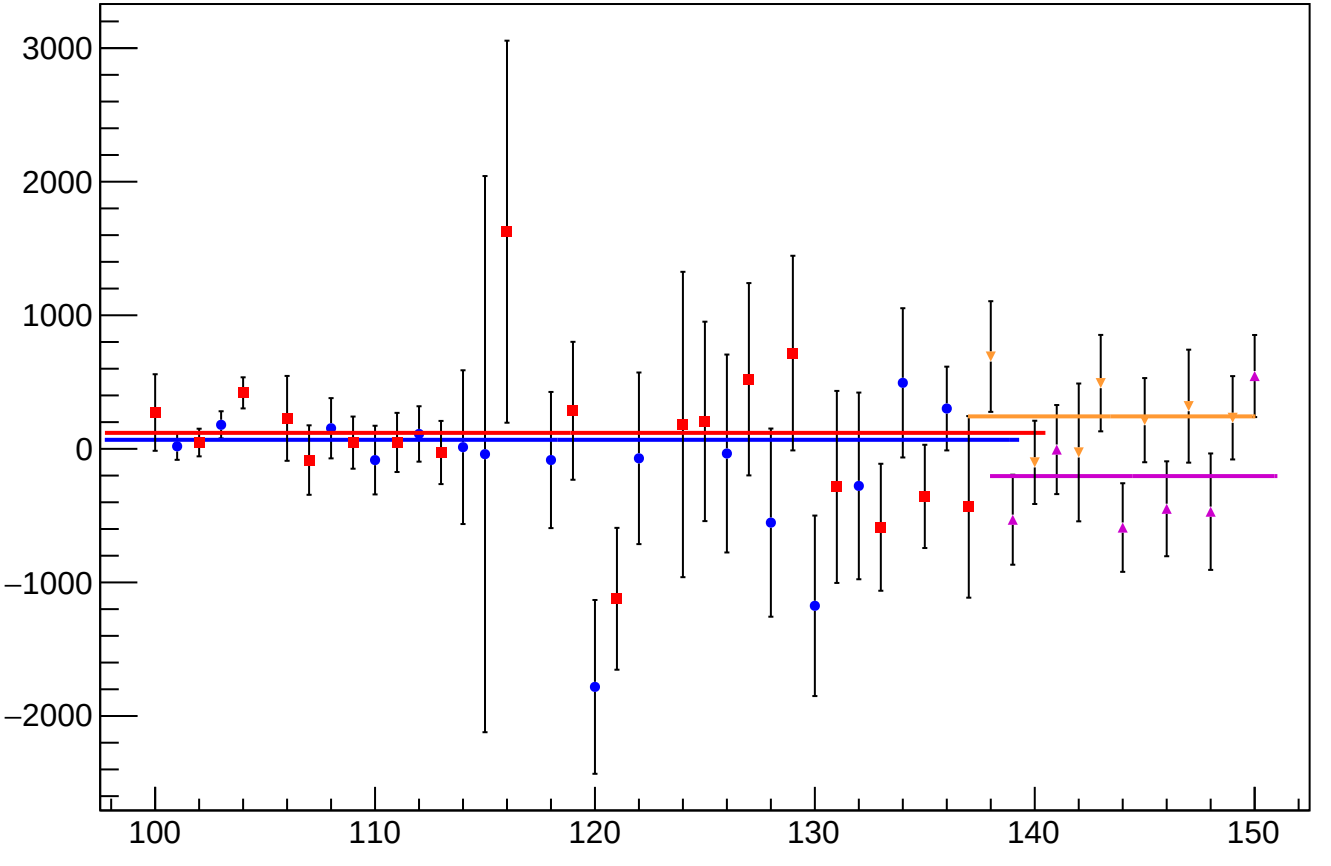
Right: 114.714+/-0.027 $\chi^2$/NDF: 10746837.6/34

In: 138.691+/-0.036 $\chi^2$/NDF:9563908.5/21

Out: 142.474+/-0.035 $\chi^2$/NDF:9024492.9/25

All: 140.600+/-0.025 $\chi^2$/NDF: 18594129.7/47

# asym_sam_15_avg_mean vs Slug, Sign Corrected




Right In: 67.621+/-59.169 $\chi^2$/NDF: 15.8/15

Left Out: 243.054+/-136.724 $\chi^2$/NDF:3.2/6

Right Out: 119.635+/-57.941 $\chi^2$/NDF: 21.1/18

Left In: -203.881+/-140.486 $\chi^2$/NDF:9.4/5

Left: 25.650+/-97.981 $\chi^2$/NDF: 17.8/12

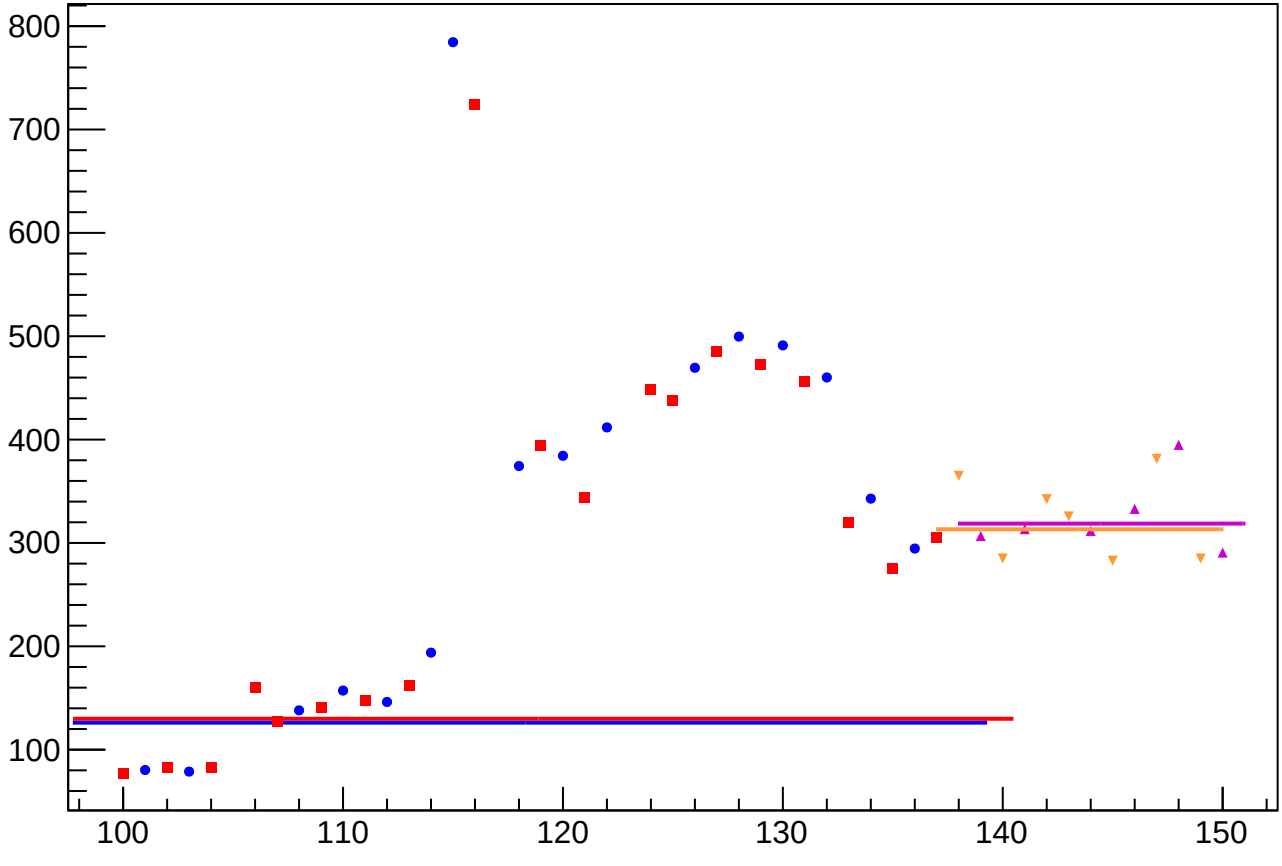
Right: 94.173+/-41.398 $\chi^2$/NDF: 37.3/34

In: 26.716+/-54.530 $\chi^2$/NDF:28.4/21

Out: 138.425+/-53.348 $\chi^2$/NDF:25.0/25

All: 83.794+/-38.134 $\chi^2$/NDF: 55.5/47

# asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 126.154+/-0.042 $\chi^2$/NDF: 5220128.2/15

Left Out: 313.209+/-0.097 $\chi^2$/NDF:143410.1/6

Right Out: 129.914+/-0.041 $\chi^2$/NDF: 4647677.8/18

Left In: 318.708+/-0.099 $\chi^2$/NDF:84878.9/5

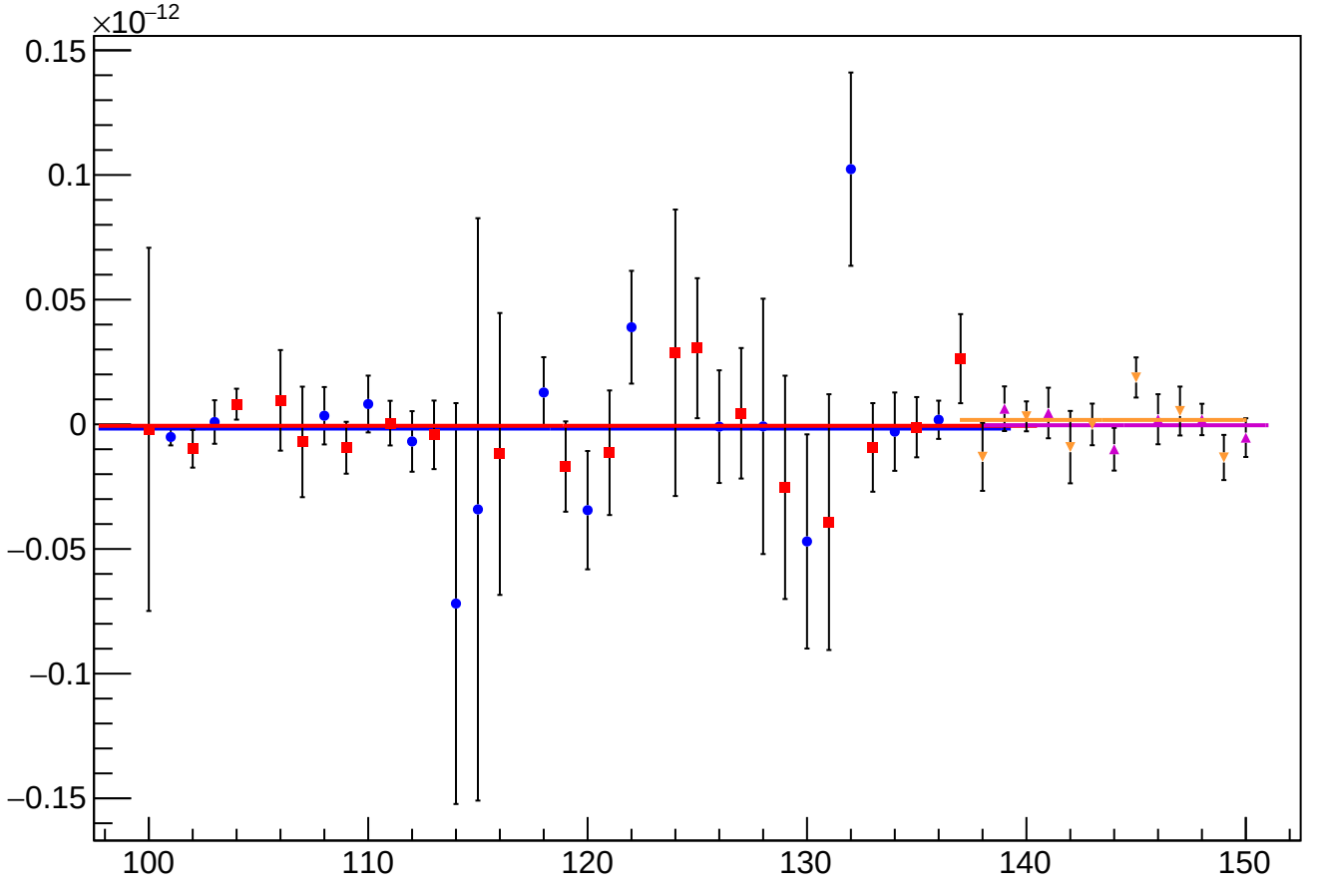
Left: 315.884+/-0.069 $\chi^2$/NDF: 229862.5/12

Right: 128.074+/-0.029 $\chi^2$/NDF: 9871930.1/34

In: 155.164+/-0.039 $\chi^2$/NDF:8496185.6/21

Out: 157.821+/-0.038 $\chi^2$/NDF:7838335.6/25

All: 156.522+/-0.027 $\chi^2$/NDF: 16336946.1/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 10.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.6/5

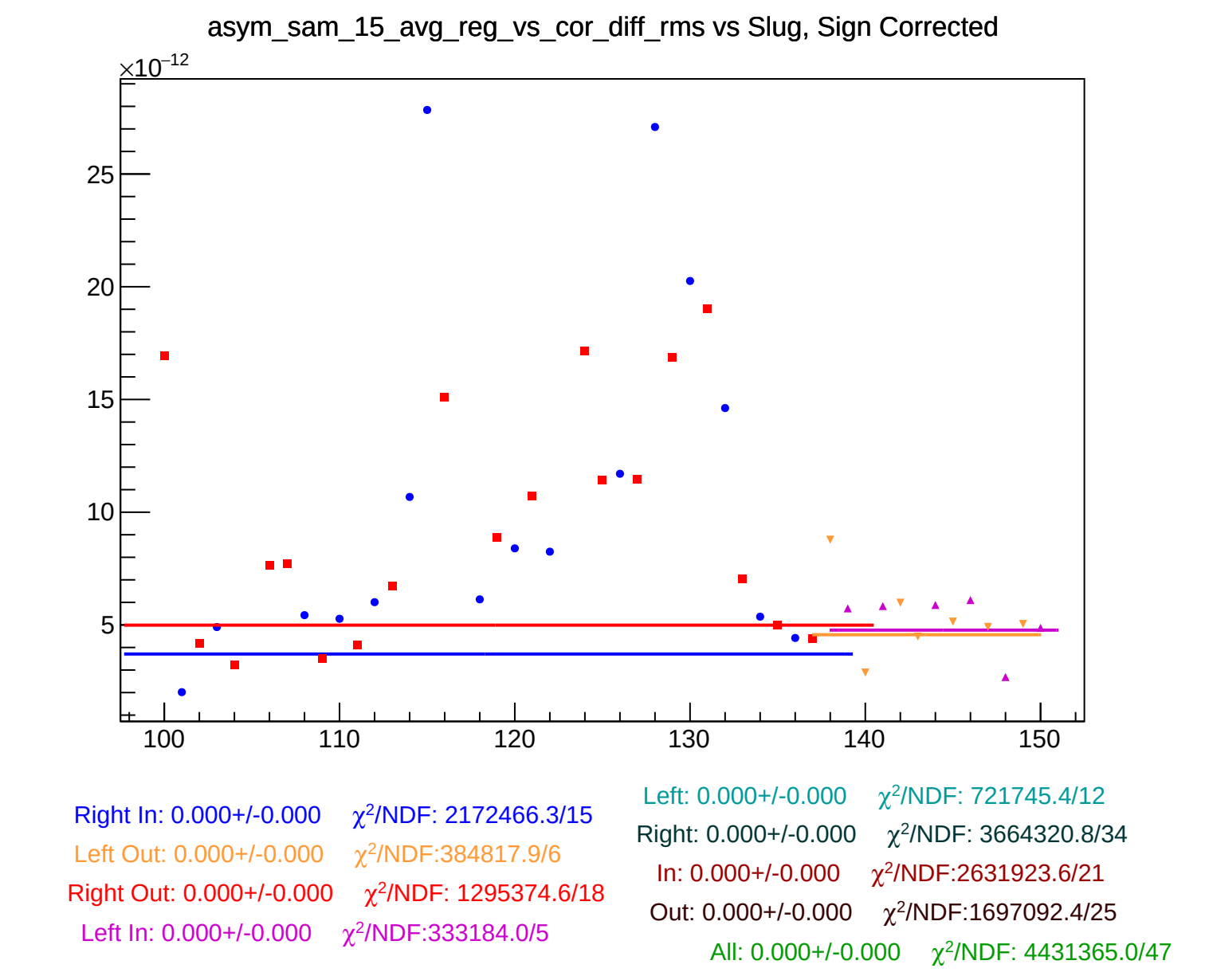
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.1/12

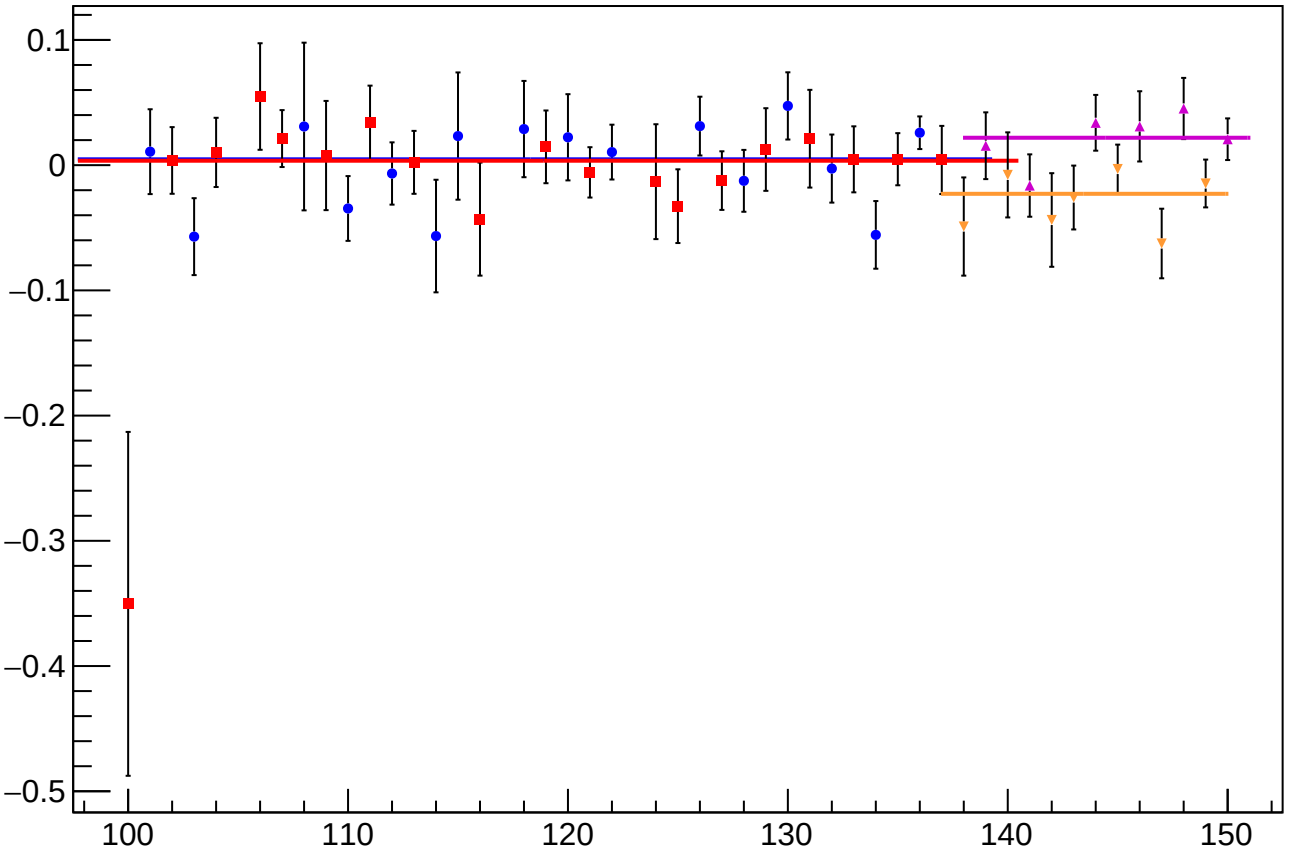
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:20.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 40.8/47


asym_sam_15_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2172466.3/15
Left Out: 0.000+/-0.000 χ²/NDF:384817.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 1295374.6/18
Left In: 0.000+/-0.000 χ²/NDF:333184.0/5
Left: 0.000+/-0.000 χ²/NDF: 721745.4/12
Right: 0.000+/-0.000 χ²/NDF: 3664320.8/34
In: 0.000+/-0.000 χ²/NDF:2631923.6/21
Out: 0.000+/-0.000 χ²/NDF:1697092.4/25
All: 0.000+/-0.000 χ²/NDF: 4431365.0/47




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.023+/-0.010 $\chi^2$/NDF:4.2/6

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.022+/-0.009 $\chi^2$/NDF:3.7/5

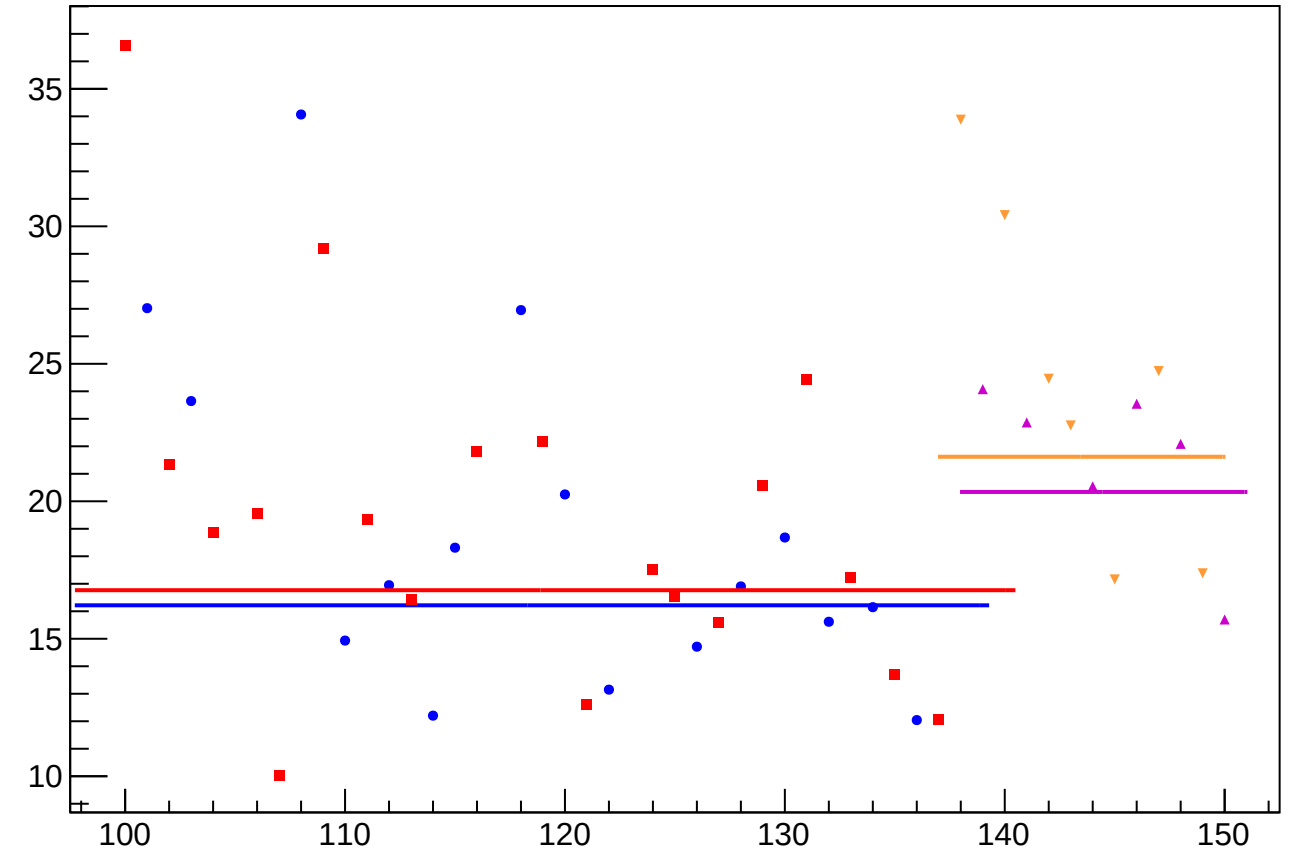
Left: 0.001+/-0.007 $\chi^2$/NDF: 19.0/12

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.010+/-0.005 $\chi^2$/NDF:27.5/21

Out: -0.005+/-0.005 $\chi^2$/NDF:22.8/25

All: 0.003+/-0.004 $\chi^2$/NDF: 54.2/47




Right In: 16.217+/-0.005 $\chi^2$/NDF: 943864.9/15

Left Out: 21.620+/-0.007 $\chi^2$/NDF:573497.8/6

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866715.7/18

Left In: 20.340+/-0.007 $\chi^2$/NDF:251993.6/5

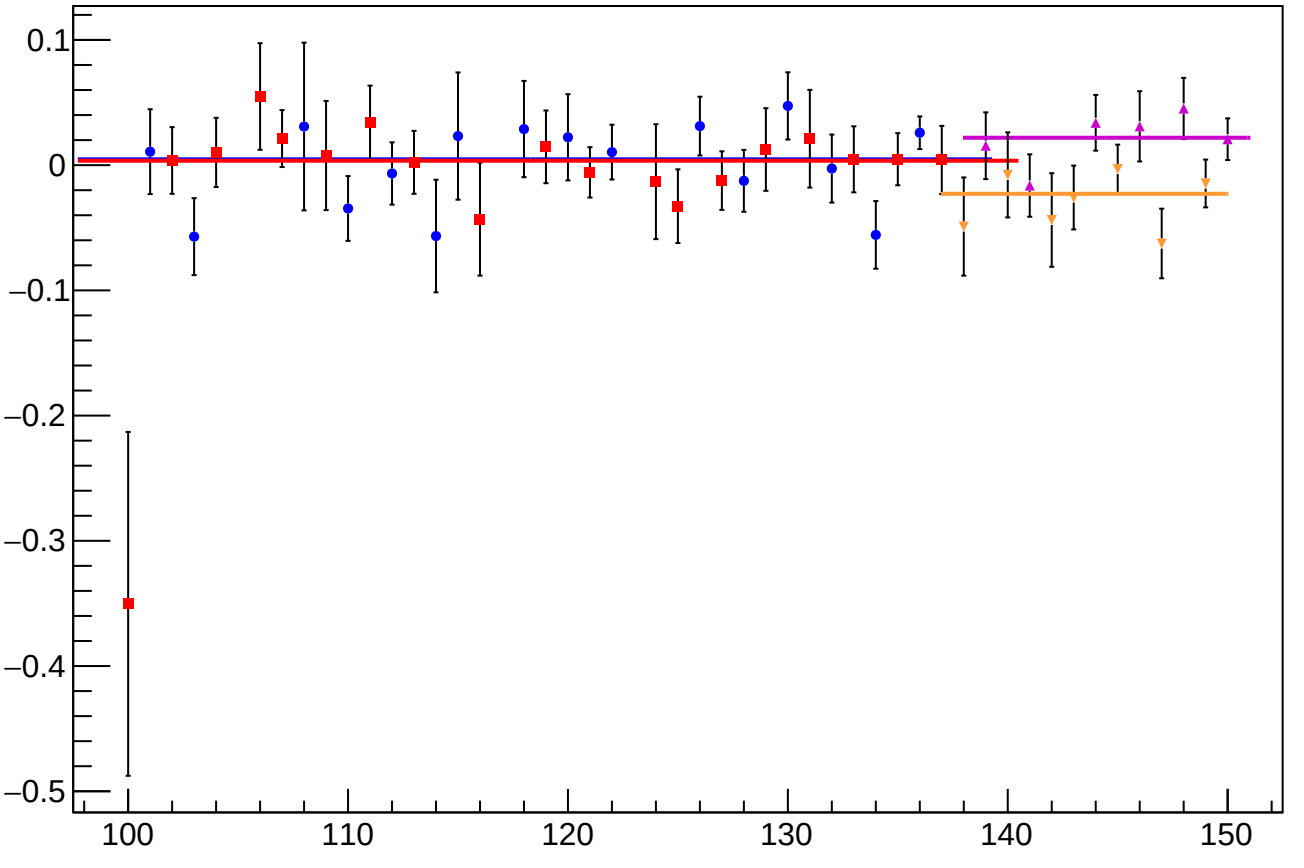
Left: 20.946+/-0.005 $\chi^2$/NDF: 843508.1/12

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817524.0/34

In: 17.590+/-0.004 $\chi^2$/NDF:1458694.5/21

Out: 18.292+/-0.004 $\chi^2$/NDF:1777644.6/25

All: 17.933+/-0.003 $\chi^2$/NDF: 3253094.5/47




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.023+/-0.010 $\chi^2$/NDF:4.2/6

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.022+/-0.009 $\chi^2$/NDF:3.7/5

Left: 0.001+/-0.007 $\chi^2$/NDF: 19.0/12

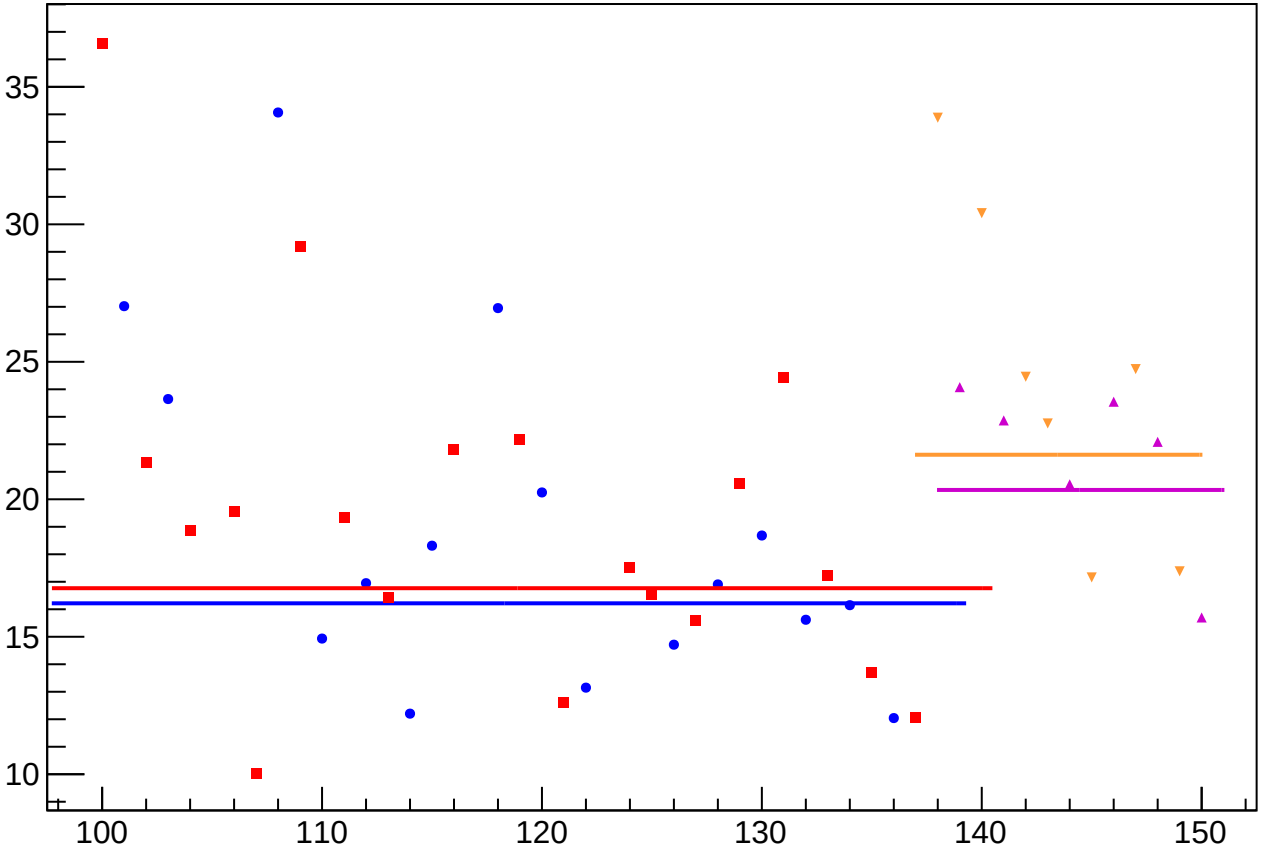
Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.010+/-0.005 $\chi^2$/NDF:27.5/21

Out: -0.005+/-0.005 $\chi^2$/NDF:22.8/25

All: 0.003+/-0.004 $\chi^2$/NDF: 54.2/47

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 16.217+/-0.005 $\chi^2$/NDF: 943864.9/15

Left Out: 21.620+/-0.007 $\chi^2$/NDF:573497.8/6

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866715.7/18

Left In: 20.340+/-0.007 $\chi^2$/NDF:251993.6/5

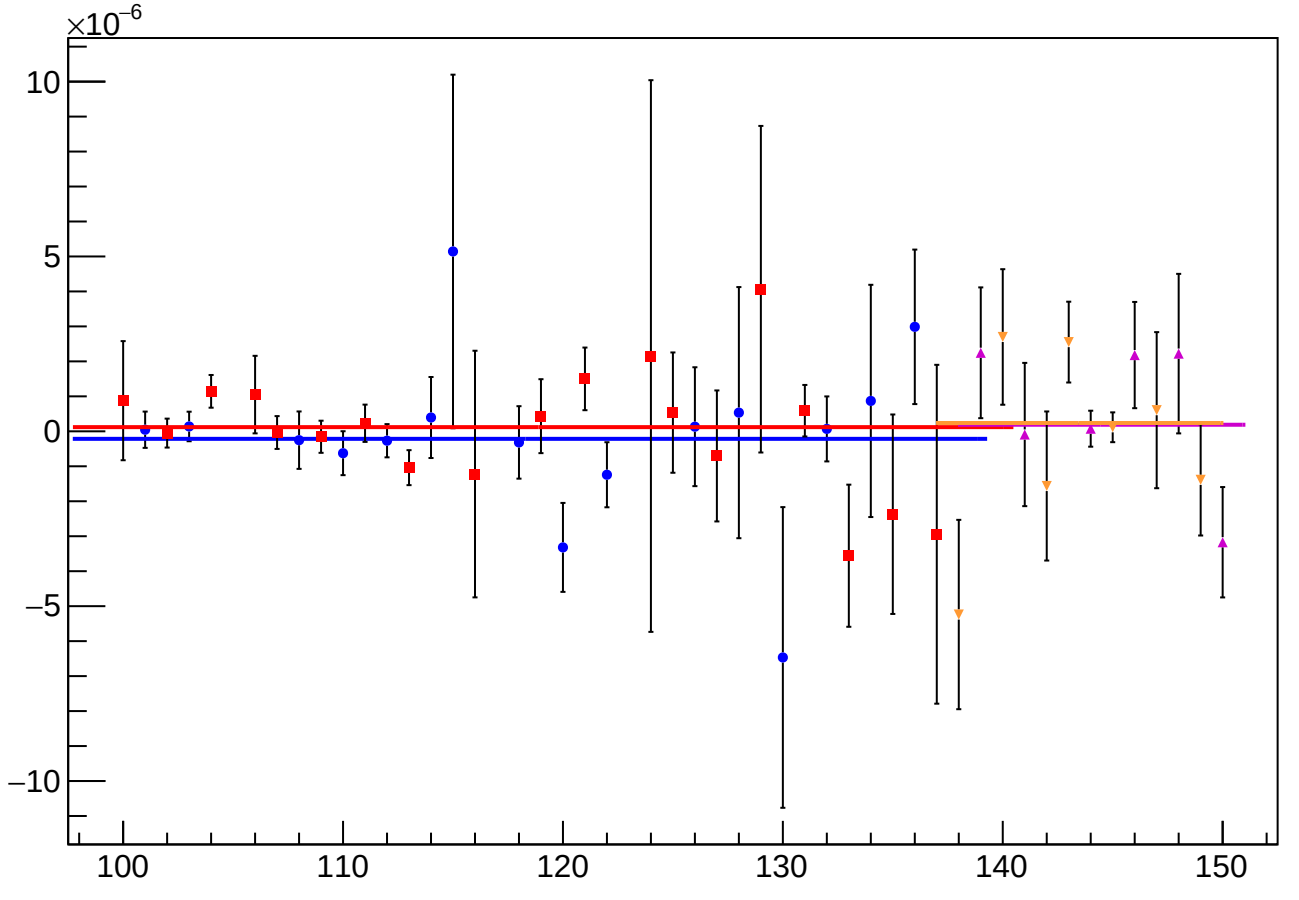
Left: 20.946+/-0.005 $\chi^2$/NDF: 843508.1/12

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817524.0/34

In: 17.590+/-0.004 $\chi^2$/NDF:1458694.5/21

Out: 18.292+/-0.004 $\chi^2$/NDF:1777644.6/25

All: 17.933+/-0.003 $\chi^2$/NDF: 3253094.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:8.3/5

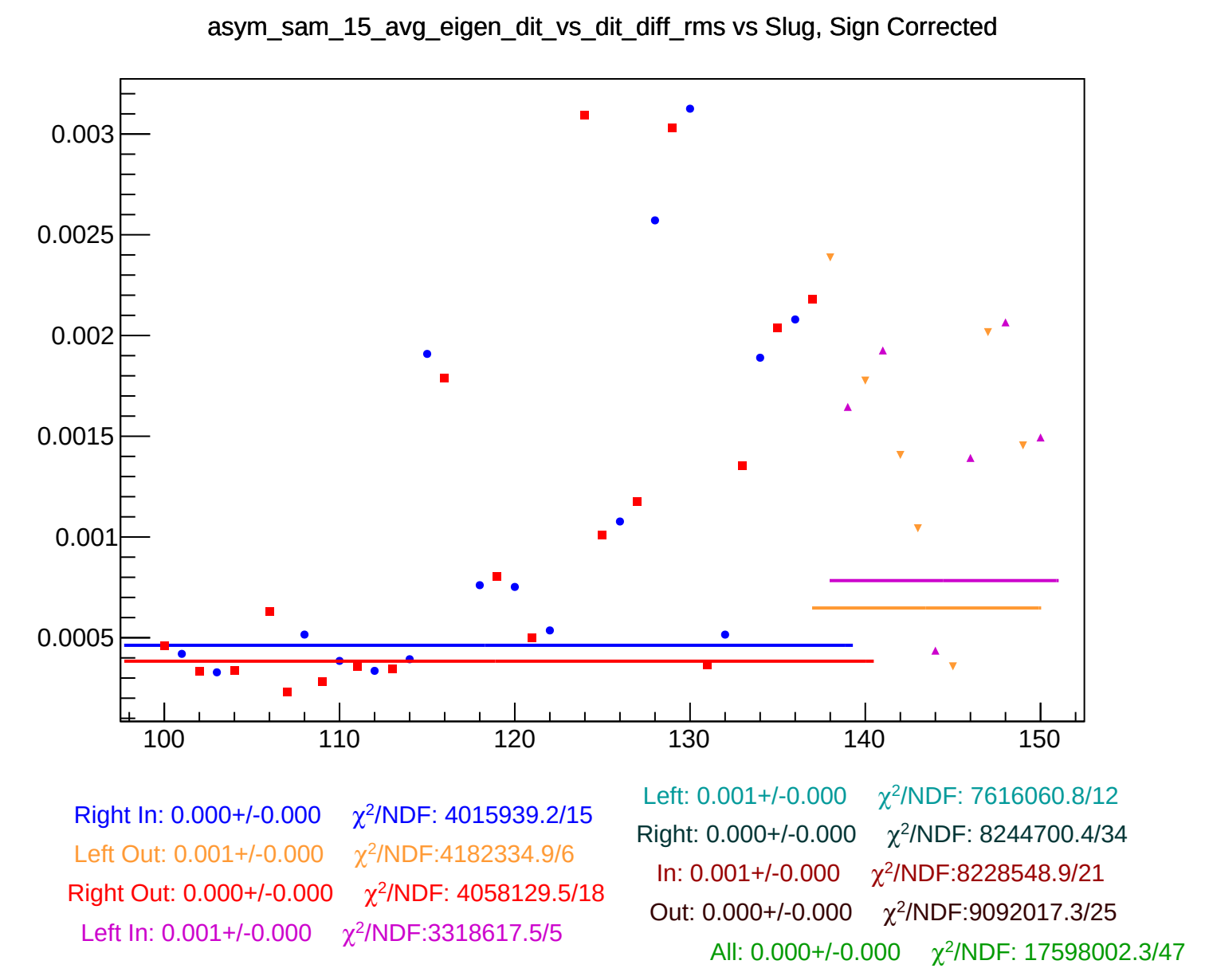
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.9/12

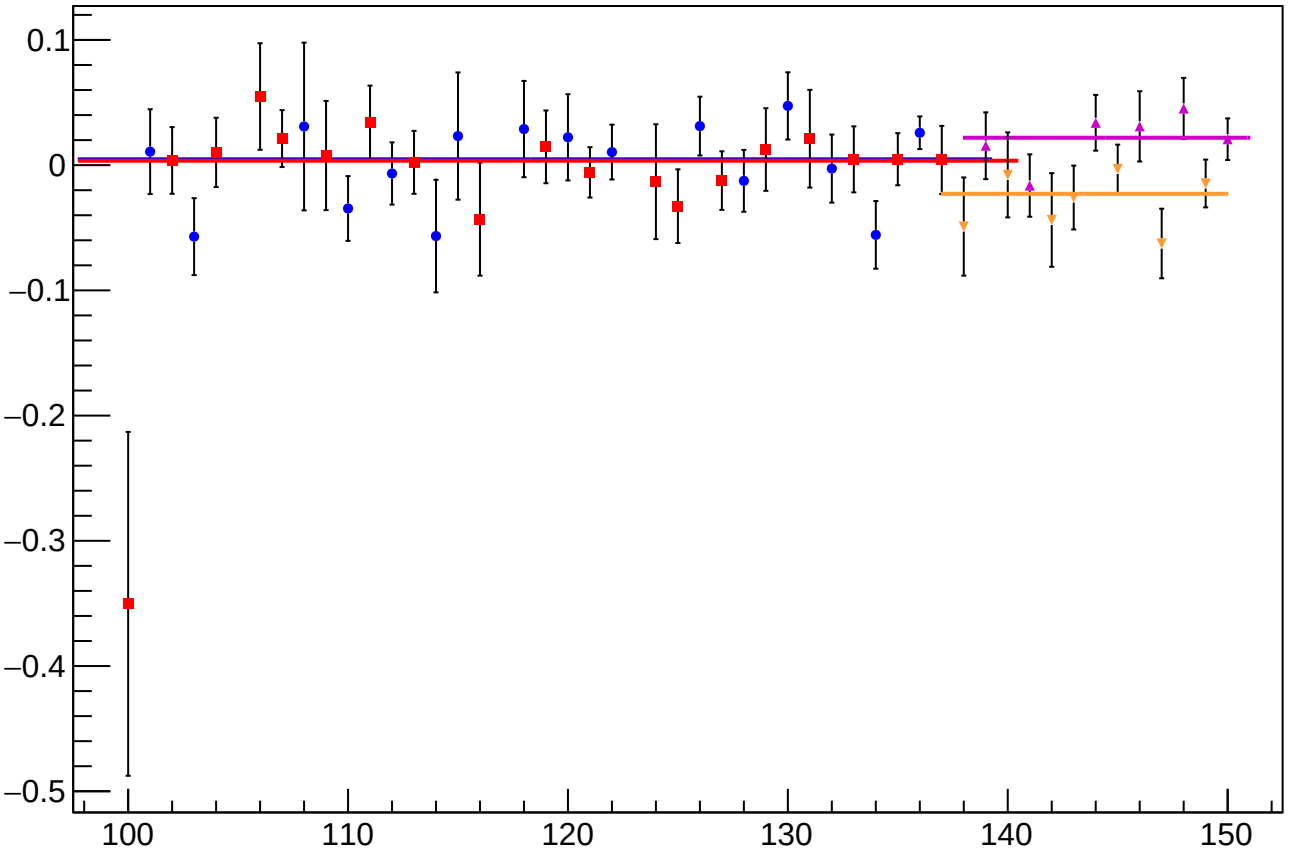
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:31.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 56.7/47


asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 4015939.2/15
Left Out: 0.001+/-0.000 χ²/NDF:4182334.9/6
Right Out: 0.000+/-0.000 χ²/NDF: 4058129.5/18
Left In: 0.001+/-0.000 χ²/NDF:3318617.5/5
Left: 0.001+/-0.000 χ²/NDF: 7616060.8/12
Right: 0.000+/-0.000 χ²/NDF: 8244700.4/34
In: 0.001+/-0.000 χ²/NDF:8228548.9/21
Out: 0.000+/-0.000 χ²/NDF:9092017.3/25
All: 0.000+/-0.000 χ²/NDF: 17598002.3/47




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.023+/-0.010 $\chi^2$/NDF:4.2/6

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.022+/-0.009 $\chi^2$/NDF:3.7/5

Left: 0.001+/-0.007 $\chi^2$/NDF: 19.0/12

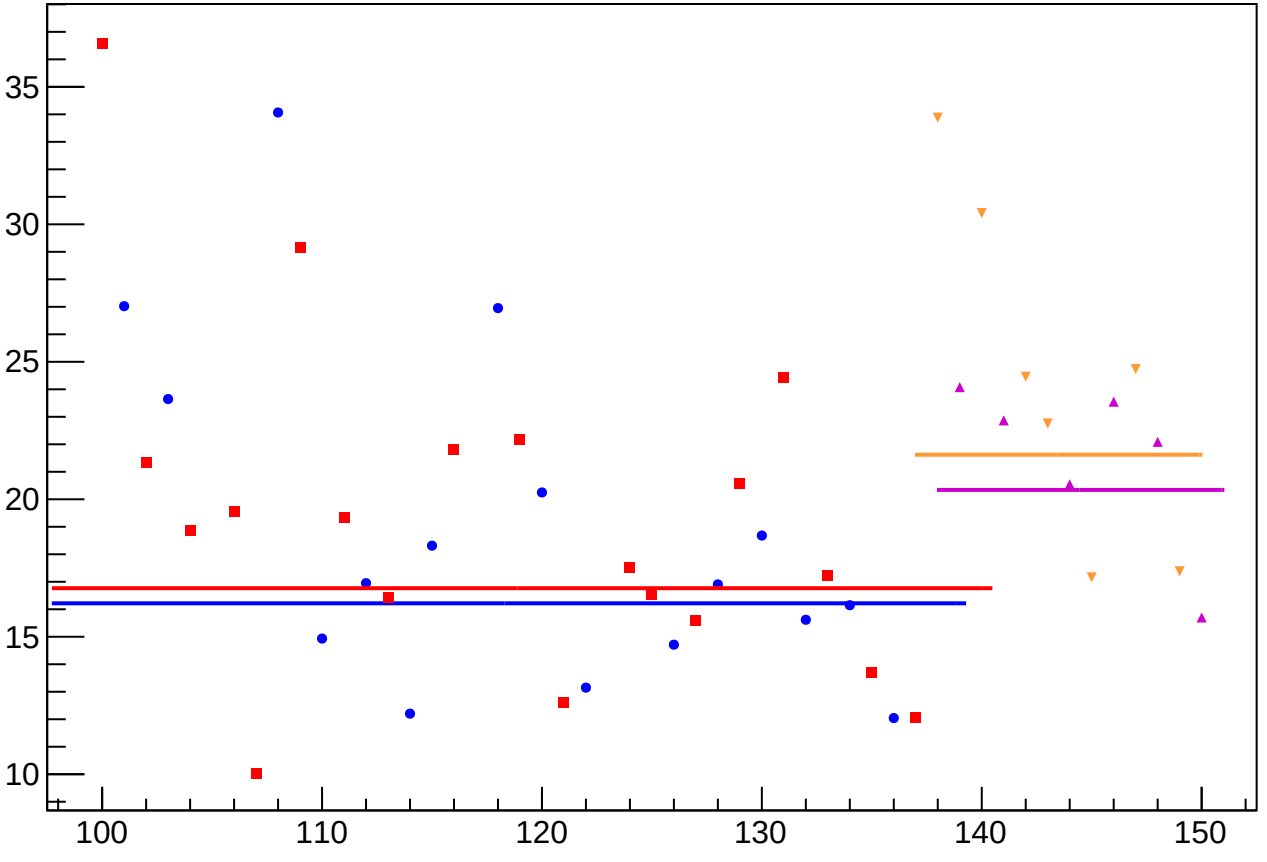
Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.010+/-0.005 $\chi^2$/NDF:27.5/21

Out: -0.005+/-0.005 $\chi^2$/NDF:22.8/25

All: 0.003+/-0.004 $\chi^2$/NDF: 54.2/47

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 21.620+/-0.007 $\chi^2$/NDF:573534.1/6

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 20.340+/-0.007 $\chi^2$/NDF:252058.6/5

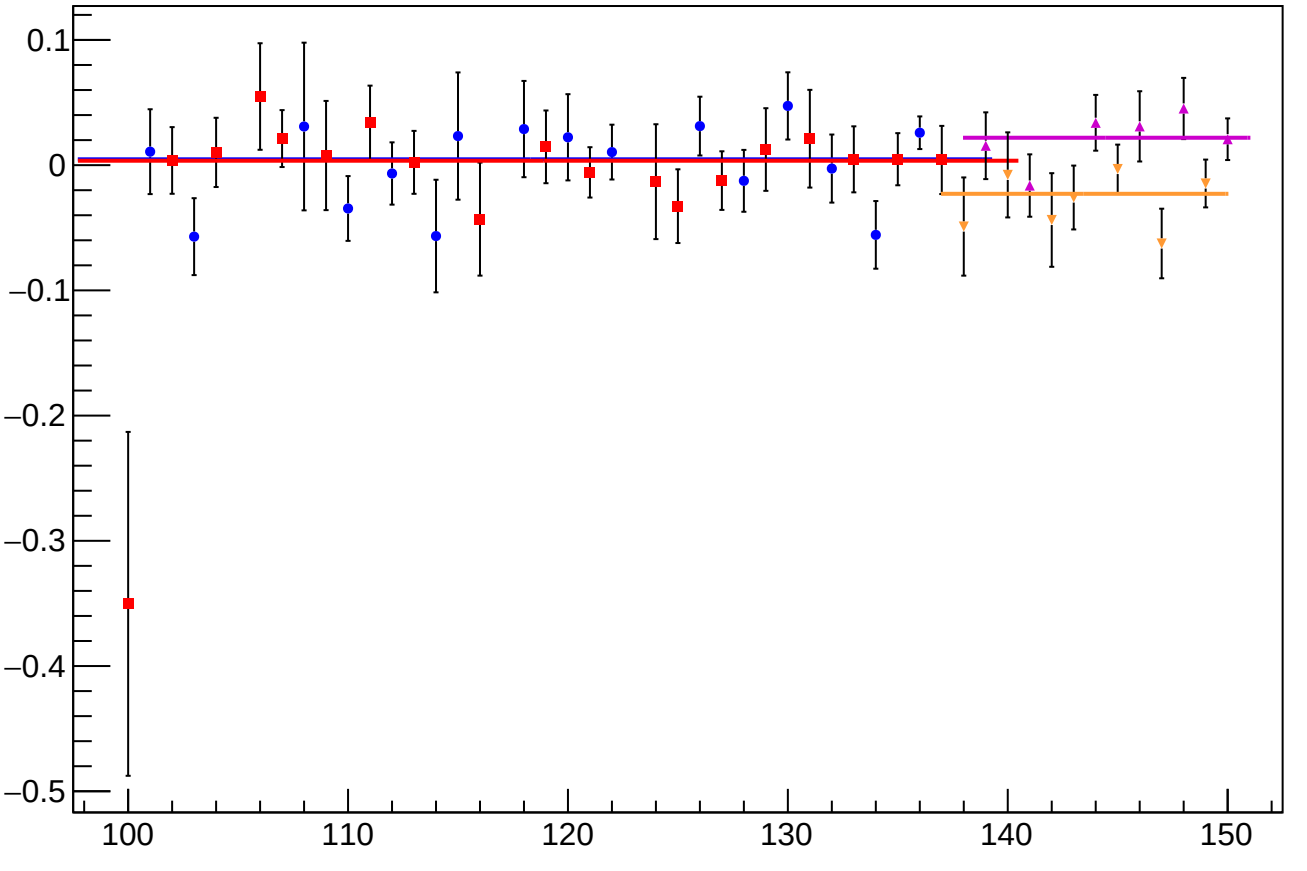
Left: 20.947+/-0.005 $\chi^2$/NDF: 843609.3/12

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 17.590+/-0.004 $\chi^2$/NDF:1458775.7/21

Out: 18.292+/-0.004 $\chi^2$/NDF:1777733.3/25

All: 17.933+/-0.003 $\chi^2$/NDF: 3253263.2/47




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.023+/-0.010 $\chi^2$/NDF:4.2/6

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.022+/-0.009 $\chi^2$/NDF:3.7/5

Left: 0.001+/-0.007 $\chi^2$/NDF: 19.0/12

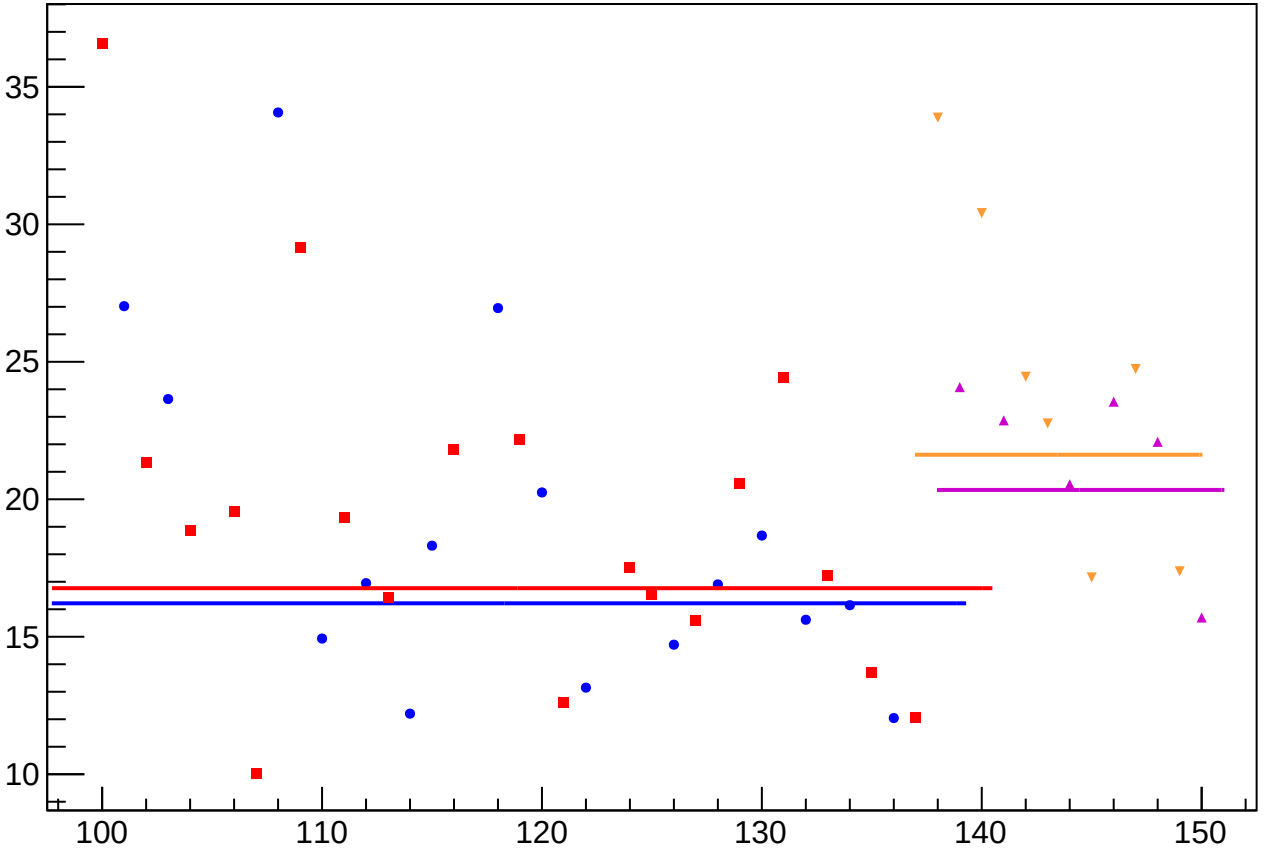
Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.010+/-0.005 $\chi^2$/NDF:27.5/21

Out: -0.005+/-0.005 $\chi^2$/NDF:22.8/25

All: 0.003+/-0.004 $\chi^2$/NDF: 54.2/47

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 21.620+/-0.007 $\chi^2$/NDF:573534.1/6

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 20.340+/-0.007 $\chi^2$/NDF:252058.6/5

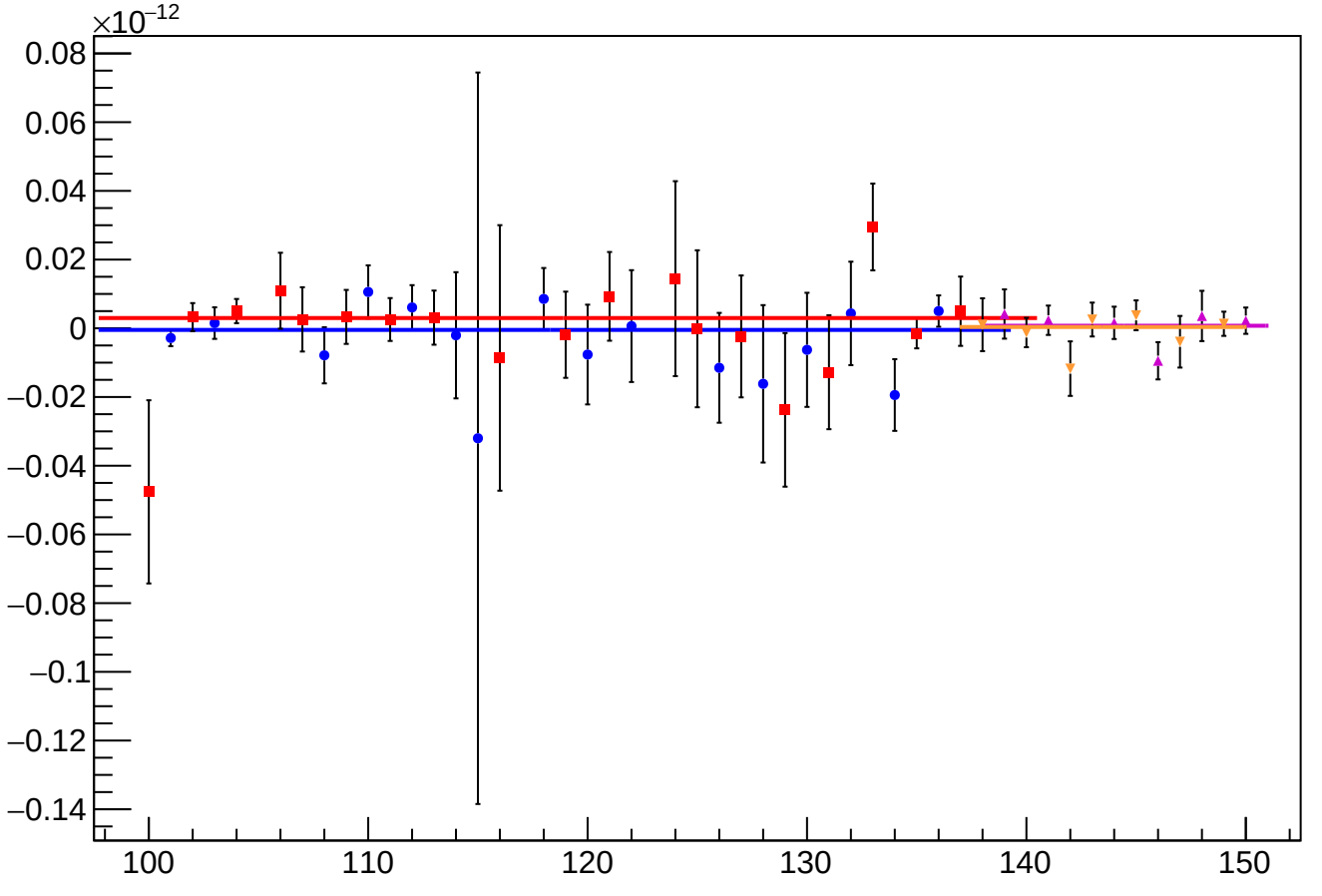
Left: 20.947+/-0.005 $\chi^2$/NDF: 843609.3/12

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 17.590+/-0.004 $\chi^2$/NDF:1458775.7/21

Out: 18.292+/-0.004 $\chi^2$/NDF:1777733.3/25

All: 17.933+/-0.003 $\chi^2$/NDF: 3253263.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.2/5

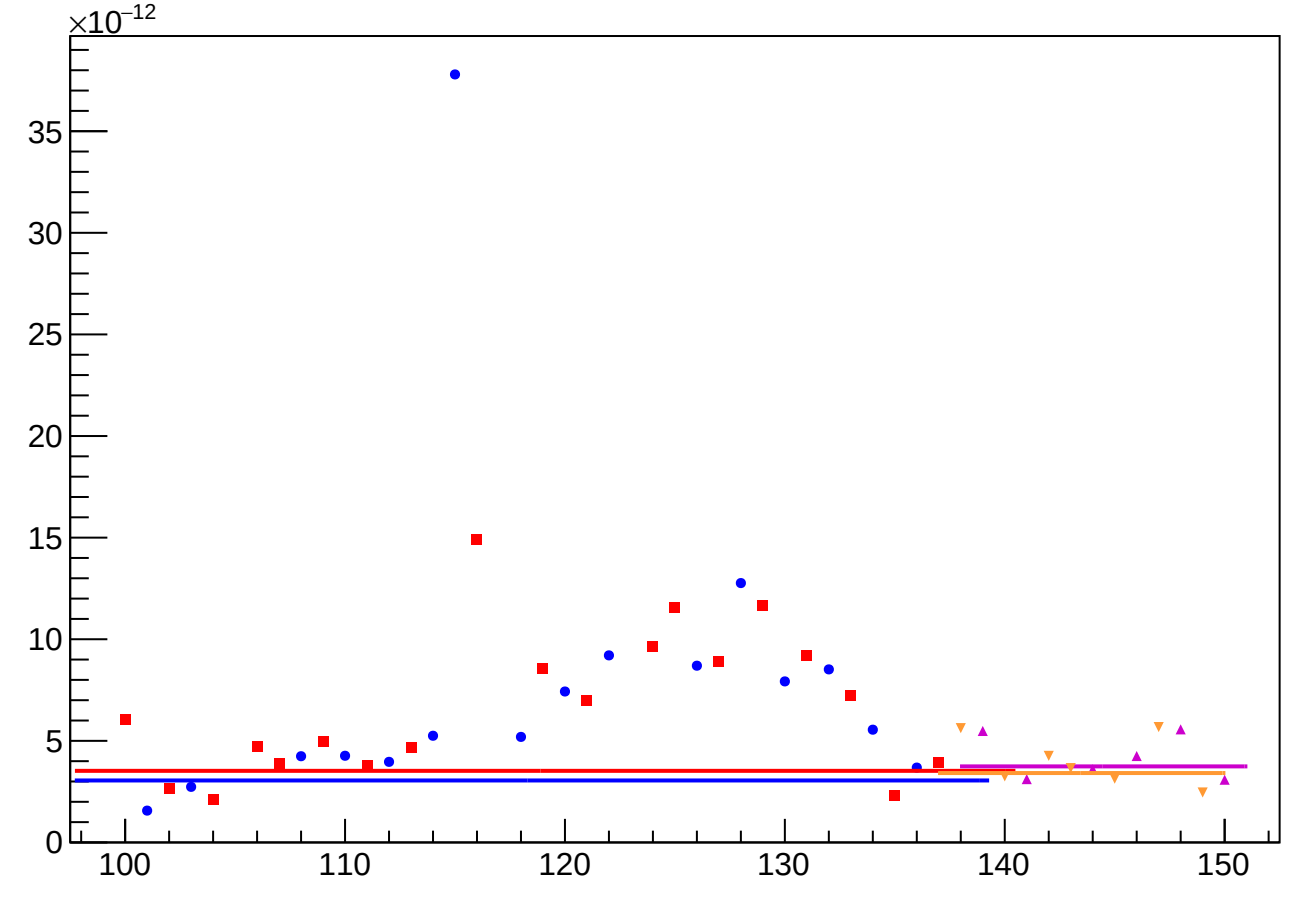
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:17.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 35.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2937232.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:532617.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2559080.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:363385.4/5

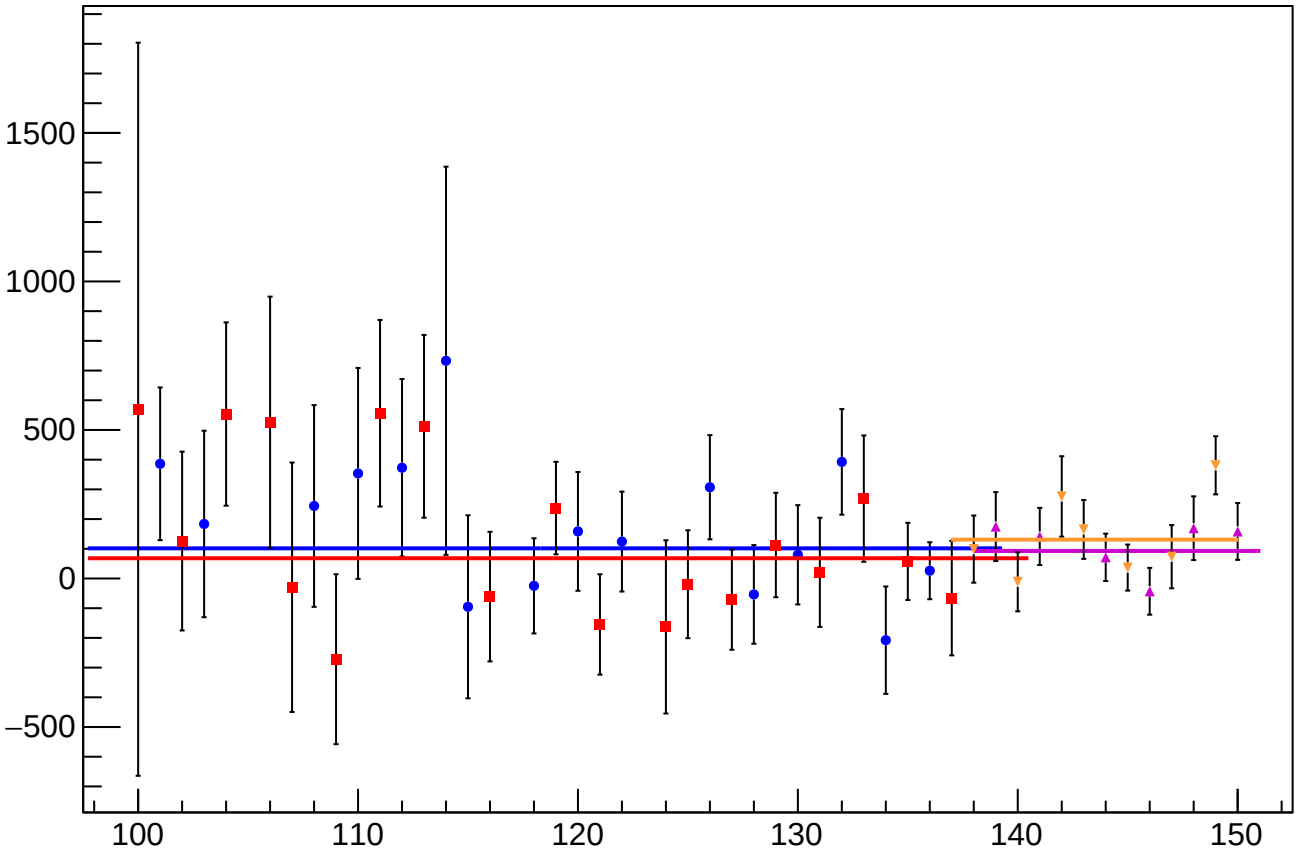
Left: 0.000+/-0.000 $\chi^2$/NDF: 923717.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5572682.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3440926.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3095164.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6549907.6/47




Right In: 101.460+/-47.631 $\chi^2$/NDF: 13.4/15

Left Out: 130.749+/-37.924 $\chi^2$/NDF:11.7/6

Right Out: 68.108+/-49.327 $\chi^2$/NDF: 16.1/18

Left In: 92.659+/-37.877 $\chi^2$/NDF:4.8/5

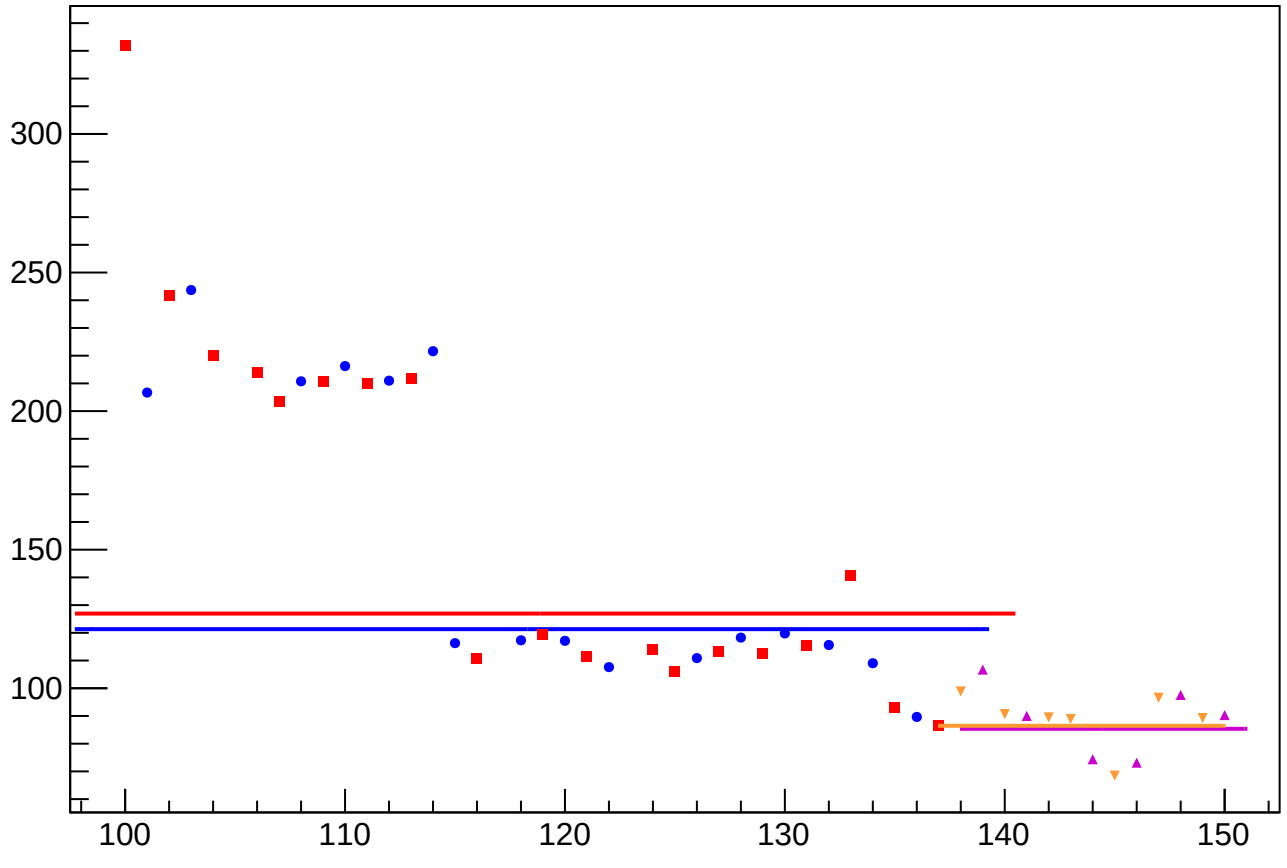
Left: 111.681+/-26.800 $\chi^2$/NDF: 17.0/12

Right: 85.367+/-34.264 $\chi^2$/NDF: 29.7/34

In: 96.069+/-29.646 $\chi^2$/NDF:18.2/21

Out: 107.478+/-30.065 $\chi^2$/NDF:28.9/25

All: 101.693+/-21.110 $\chi^2$/NDF: 47.1/47




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286651.5/15

Left Out: 86.459+/-0.027 $\chi^2$/NDF:157230.3/6

Right Out: 126.945+/-0.035 $\chi^2$/NDF: 1471592.1/18

Left In: 85.364+/-0.027 $\chi^2$/NDF:189789.8/5

Left: 85.911+/-0.019 $\chi^2$/NDF: 347854.9/12

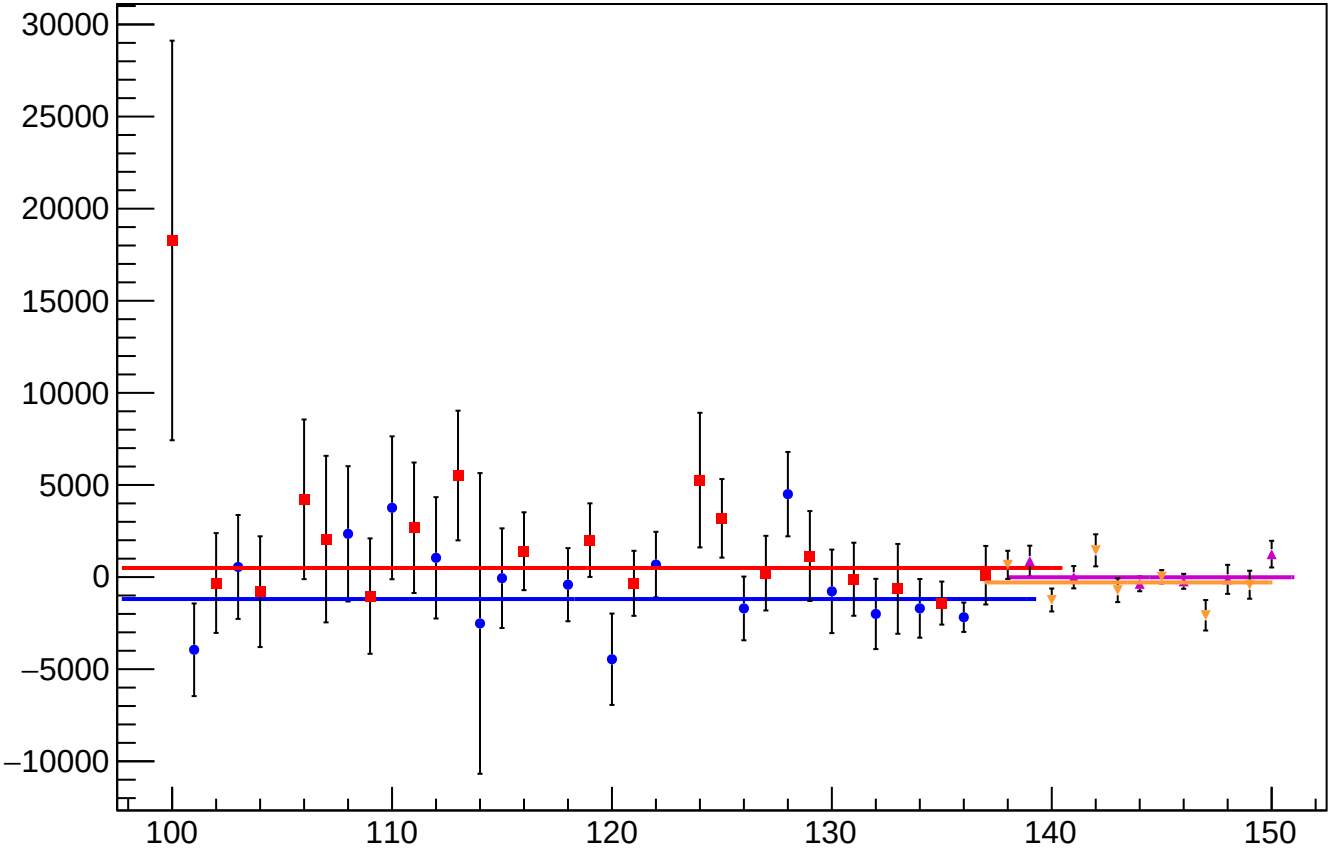
Right: 124.037+/-0.024 $\chi^2$/NDF: 2771675.2/34

In: 99.296+/-0.021 $\chi^2$/NDF:2174830.9/21

Out: 101.500+/-0.021 $\chi^2$/NDF:2475573.7/25

All: 100.382+/-0.015 $\chi^2$/NDF: 4655853.5/47

asym_sam_26_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1192.168+/-478.908 $\chi^2$/NDF: 15.9/15

Left Out: -291.359+/-230.463 $\chi^2$/NDF:13.7/6

Right Out: 494.627+/-521.756 $\chi^2$/NDF: 13.9/18

Left In: -10.246+/-224.503 $\chi^2$/NDF:5.2/5

Left: -147.121+/-160.813 $\chi^2$/NDF: 19.7/12

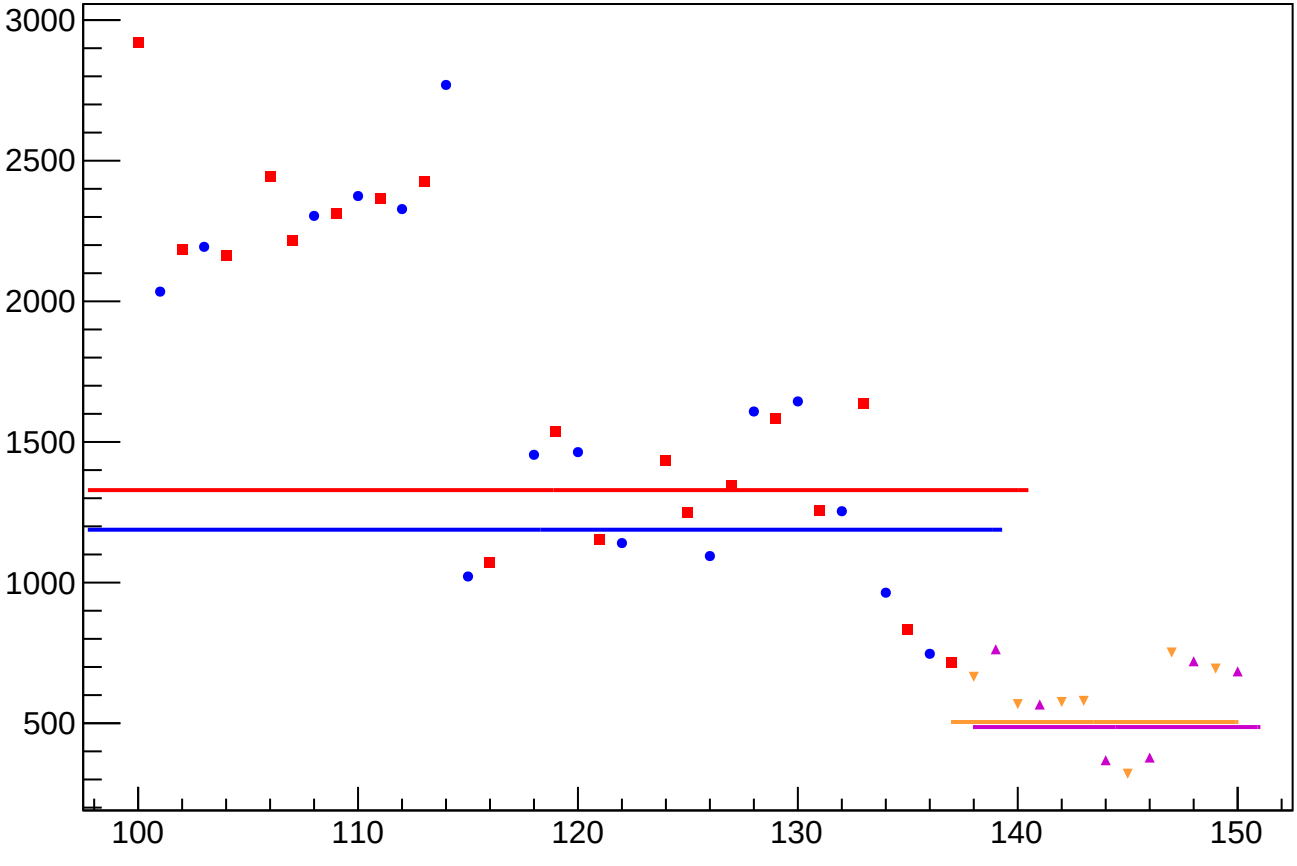
Right: -420.866+/-352.816 $\chi^2$/NDF: 35.5/34

In: -223.185+/-203.276 $\chi^2$/NDF:26.1/21

Out: -163.044+/-210.813 $\chi^2$/NDF:29.5/25

All: -194.209+/-146.330 $\chi^2$/NDF: 55.7/47

asym_sam_26_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044635.7/15

Left Out: 504.375+/-0.163 $\chi^2$/NDF:968111.8/6

Right Out: 1328.816+/-0.369 $\chi^2$/NDF: 1957758.3/18

Left In: 486.419+/-0.159 $\chi^2$/NDF:894579.2/5

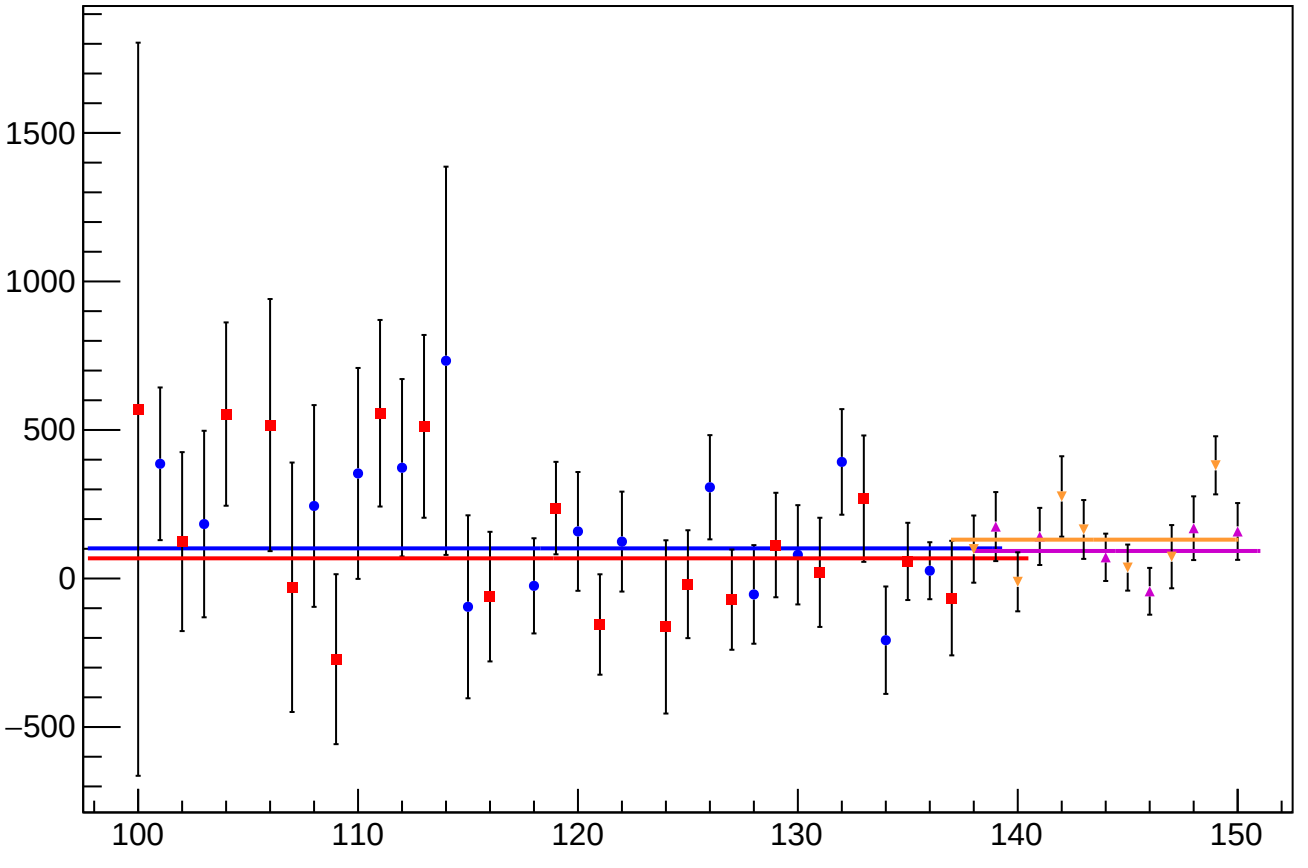
Left: 495.162+/-0.114 $\chi^2$/NDF: 1868920.0/12

Right: 1252.427+/-0.249 $\chi^2$/NDF: 4081382.8/34

In: 612.831+/-0.144 $\chi^2$/NDF:6458823.9/21

Out: 638.967+/-0.149 $\chi^2$/NDF:7104266.3/25

All: 625.424+/-0.103 $\chi^2$/NDF: 13579020.5/47




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: 130.756+/-37.924 $\chi^2$/NDF:11.7/6

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 92.658+/-37.877 $\chi^2$/NDF:4.8/5

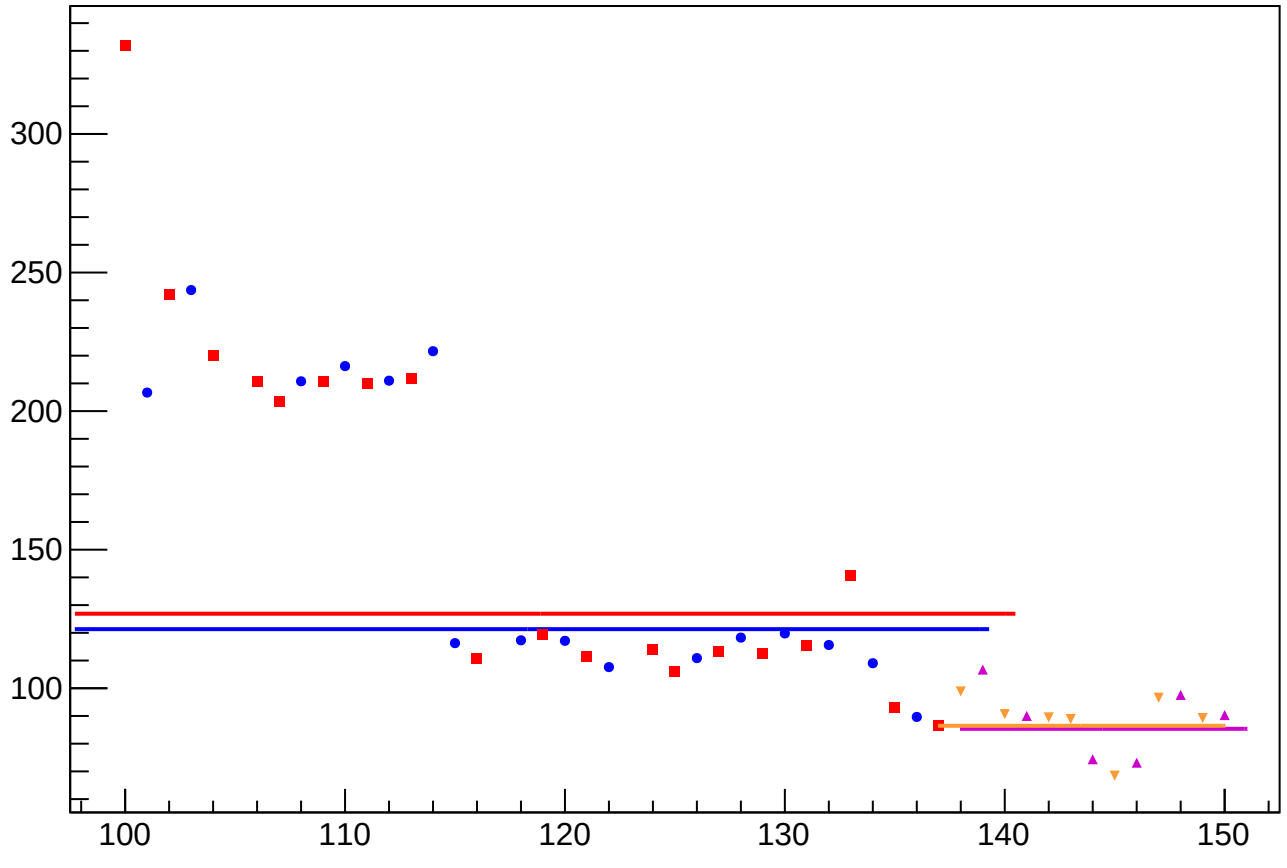
Left: 111.684+/-26.800 $\chi^2$/NDF: 17.0/12

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 96.063+/-29.646 $\chi^2$/NDF:18.2/21

Out: 107.400+/-30.066 $\chi^2$/NDF:28.8/25

All: 101.652+/-21.110 $\chi^2$/NDF: 47.0/47




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 86.459+/-0.027 $\chi^2$/NDF:157230.3/6

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 85.364+/-0.027 $\chi^2$/NDF:189789.8/5

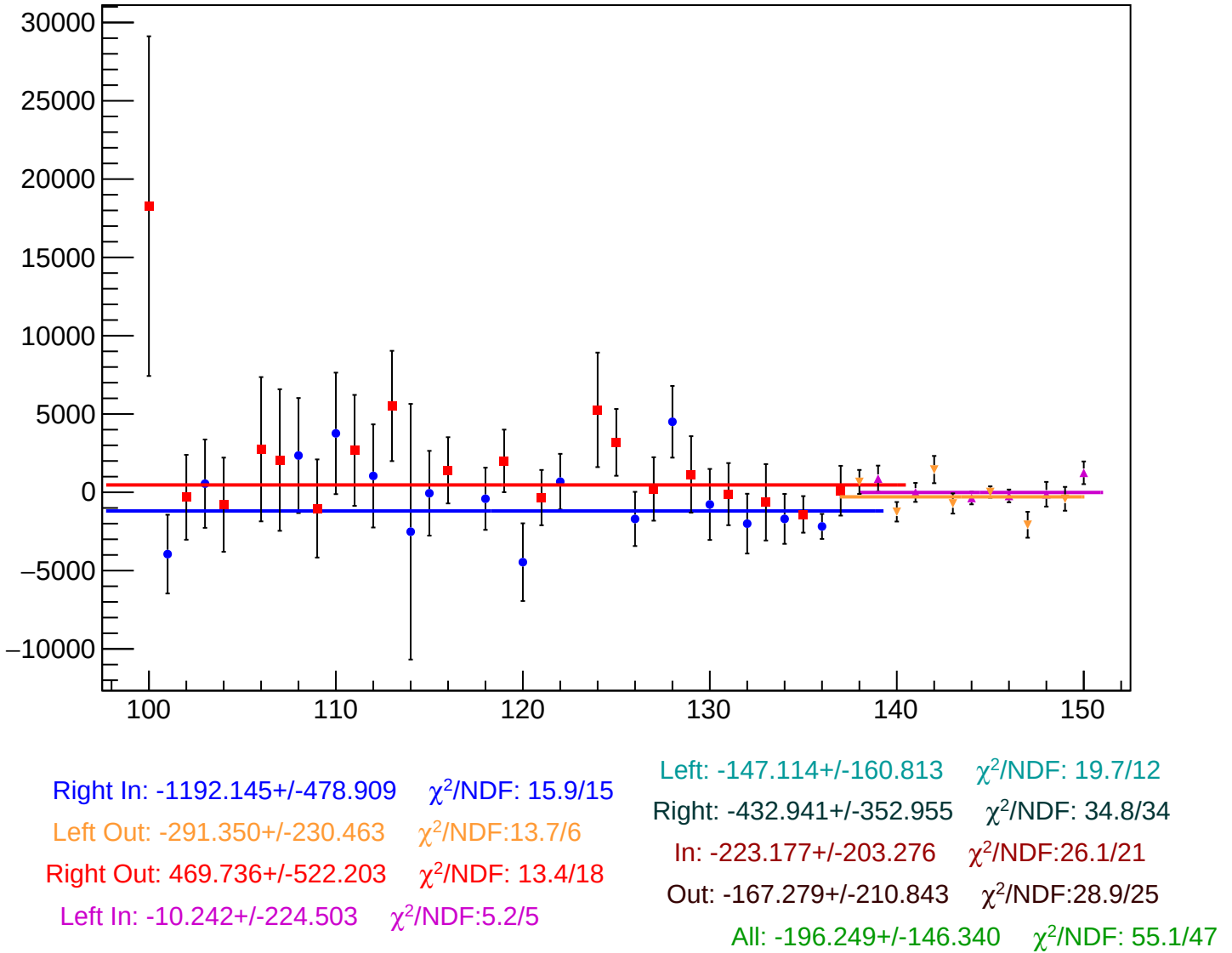
Left: 85.911+/-0.019 $\chi^2$/NDF: 347854.9/12

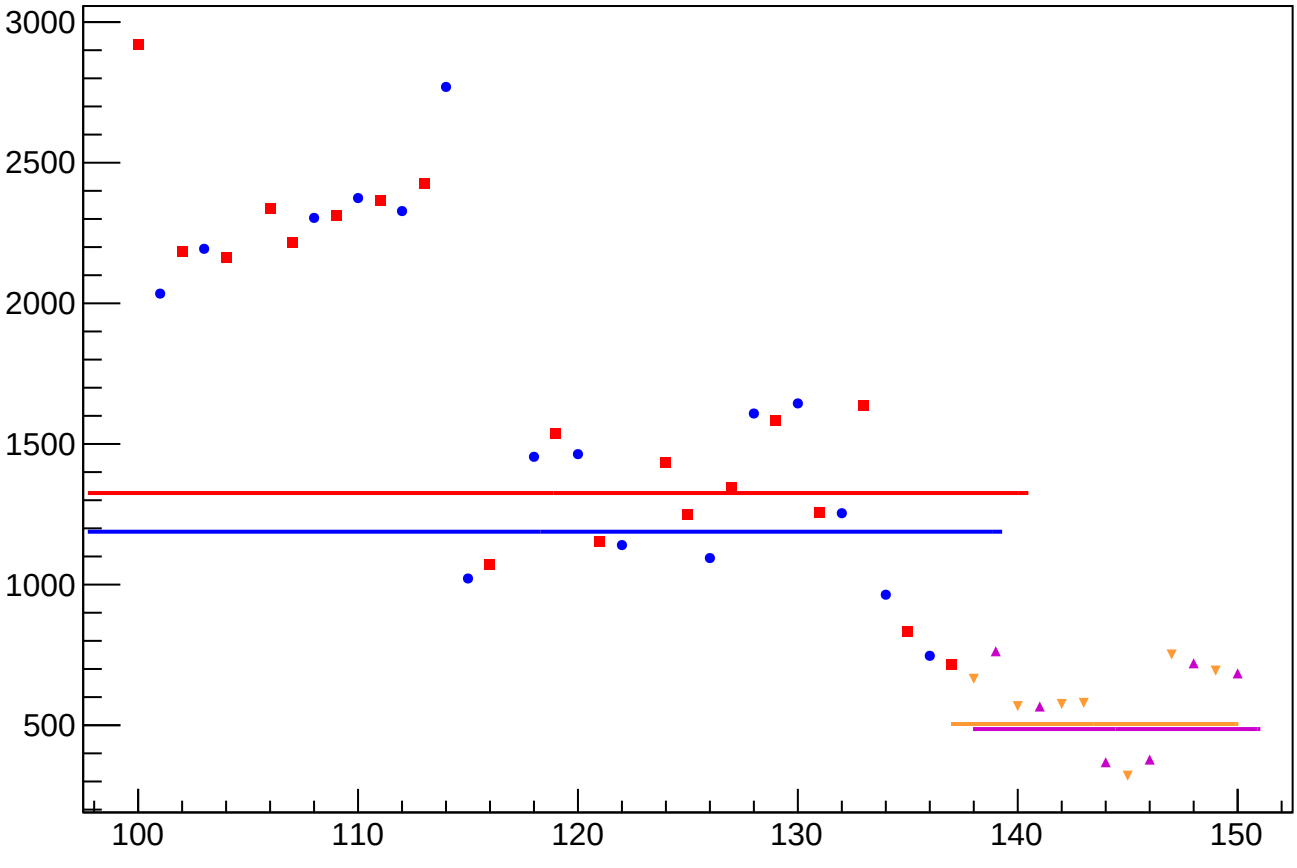
Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 99.296+/-0.021 $\chi^2$/NDF:2174833.3/21

Out: 101.480+/-0.021 $\chi^2$/NDF:2467303.2/25

All: 100.372+/-0.015 $\chi^2$/NDF: 4647487.9/47


asym_sam_26_avg_cor_correction_mean vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -1192.145+/-478.909 χ²/NDF: 15.9/15
Left Out: -291.350+/-230.463 χ²/NDF:13.7/6
Right Out: 469.736+/-522.203 χ²/NDF: 13.4/18
Left In: -10.242+/-224.503 χ²/NDF:5.2/5
Left: -147.114+/-160.813 χ²/NDF: 19.7/12
Right: -432.941+/-352.955 χ²/NDF: 34.8/34
In: -223.177+/-203.276 χ²/NDF:26.1/21
Out: -167.279+/-210.843 χ²/NDF:28.9/25
All: -196.249+/-146.340 χ²/NDF: 55.1/47




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044666.3/15

Left Out: 504.374+/-0.163 $\chi^2$/NDF:968117.2/6

Right Out: 1325.564+/-0.369 $\chi^2$/NDF: 1920986.7/18

Left In: 486.419+/-0.159 $\chi^2$/NDF:894580.9/5

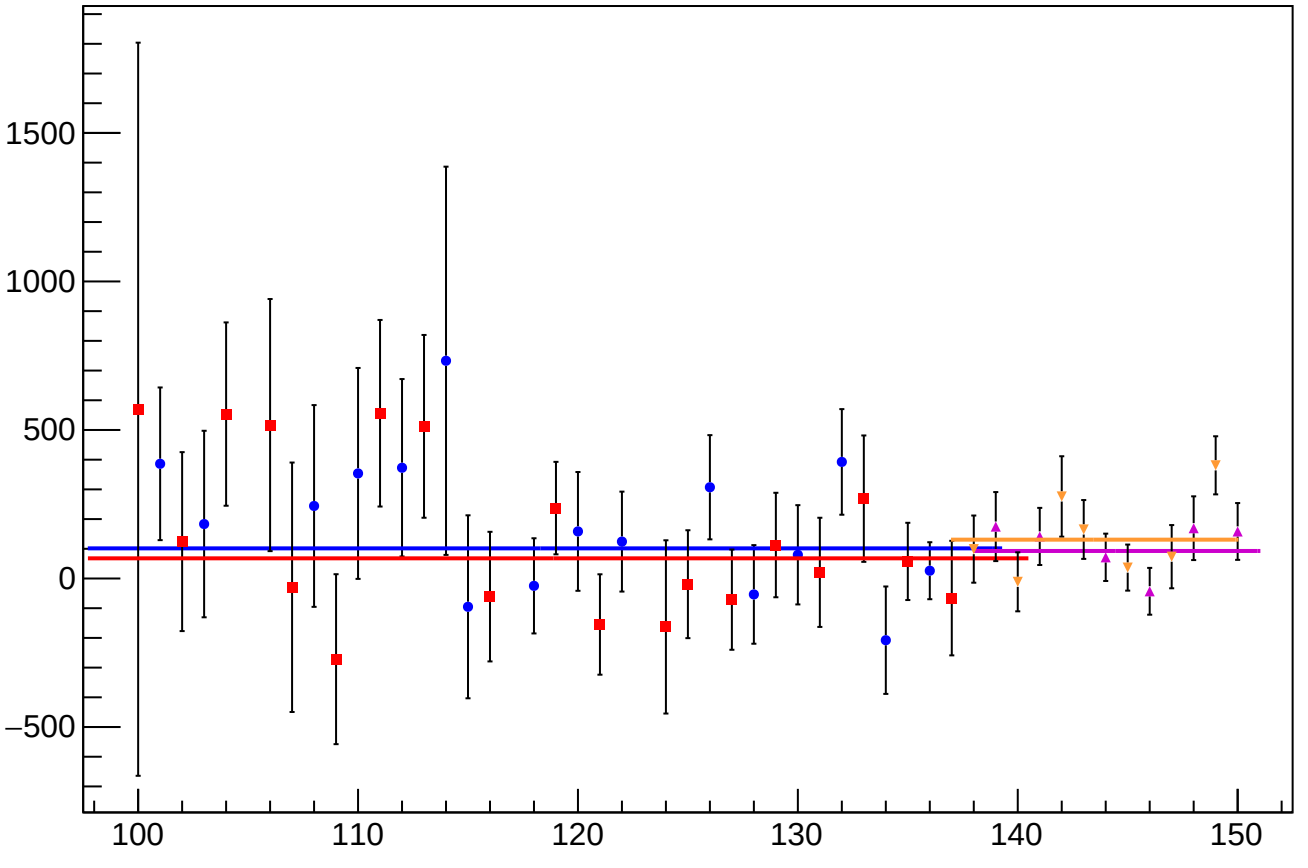
Left: 495.161+/-0.114 $\chi^2$/NDF: 1868926.7/12

Right: 1250.882+/-0.250 $\chi^2$/NDF: 4040963.9/34

In: 612.831+/-0.144 $\chi^2$/NDF:6458847.2/21

Out: 638.243+/-0.149 $\chi^2$/NDF:7028664.1/25

All: 625.073+/-0.103 $\chi^2$/NDF: 13502569.3/47




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: 130.756+/-37.924 $\chi^2$/NDF:11.7/6

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 92.658+/-37.877 $\chi^2$/NDF:4.8/5

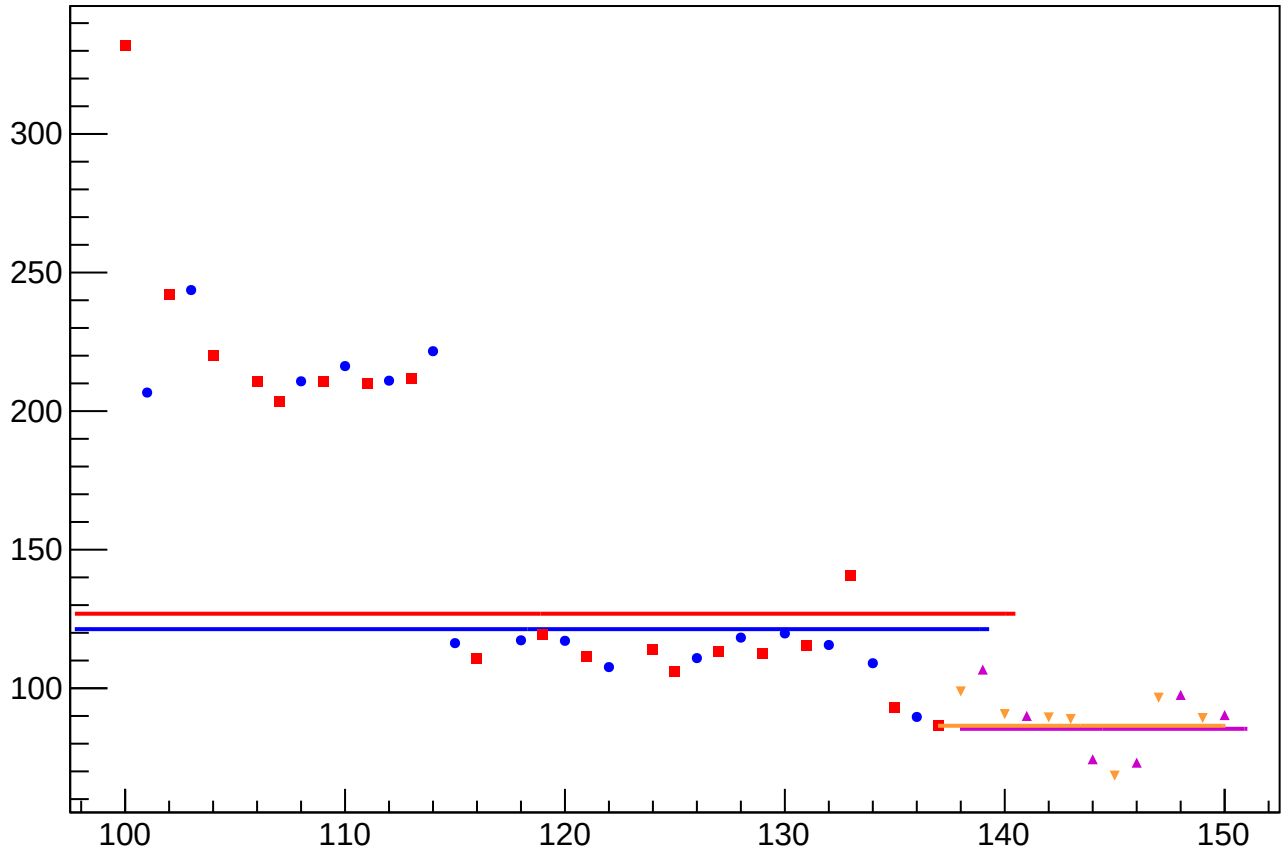
Left: 111.684+/-26.800 $\chi^2$/NDF: 17.0/12

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 96.063+/-29.646 $\chi^2$/NDF:18.2/21

Out: 107.400+/-30.066 $\chi^2$/NDF:28.8/25

All: 101.652+/-21.110 $\chi^2$/NDF: 47.0/47




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 86.459+/-0.027 $\chi^2$/NDF:157230.3/6

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 85.364+/-0.027 $\chi^2$/NDF:189789.8/5

Left: 85.911+/-0.019 $\chi^2$/NDF: 347854.9/12

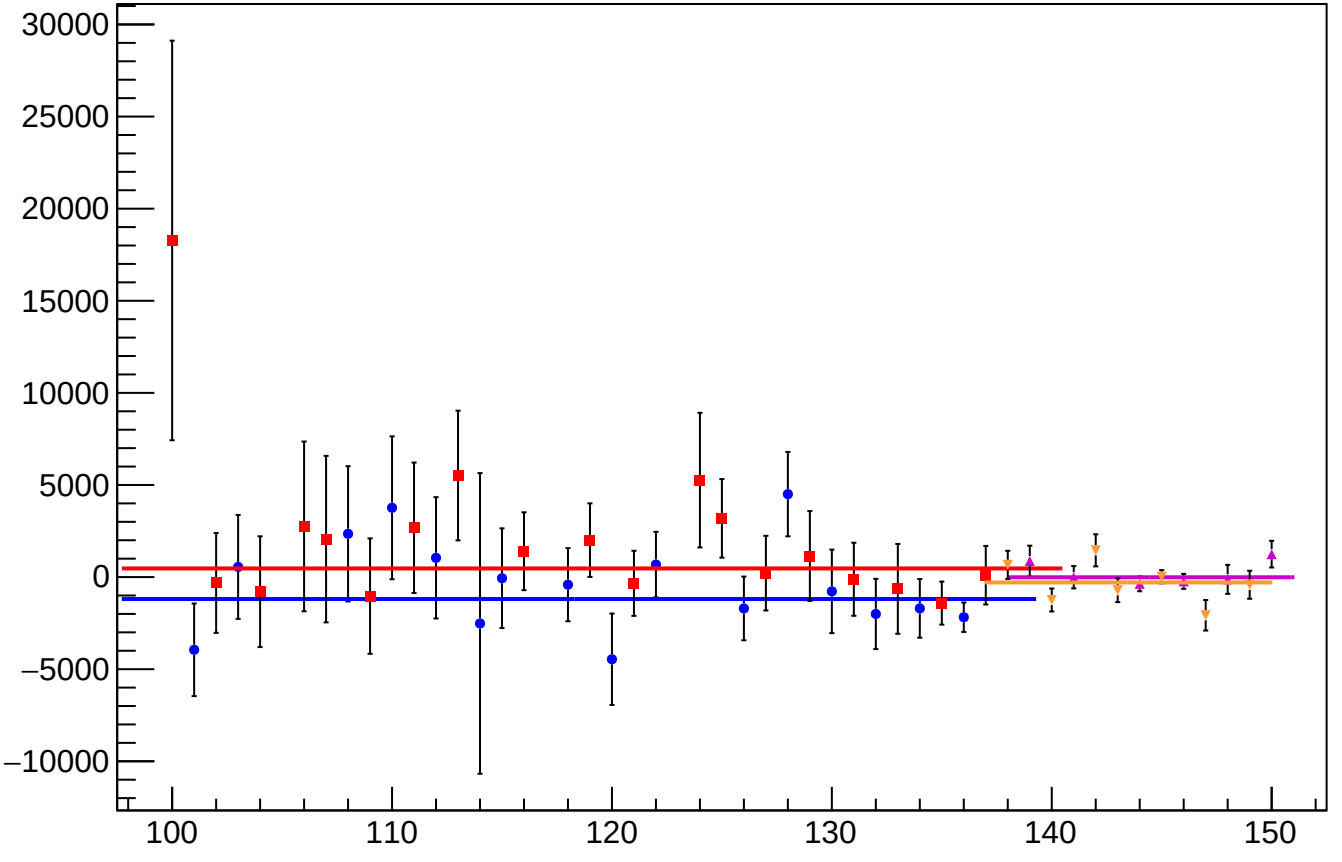
Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 99.296+/-0.021 $\chi^2$/NDF:2174833.3/21

Out: 101.480+/-0.021 $\chi^2$/NDF:2467303.2/25

All: 100.372+/-0.015 $\chi^2$/NDF: 4647487.9/47

asym_sam_26_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1192.145+/-478.909 $\chi^2$/NDF: 15.9/15

Left Out: -291.350+/-230.463 $\chi^2$/NDF:13.7/6

Right Out: 469.736+/-522.203 $\chi^2$/NDF: 13.4/18

Left In: -10.242+/-224.503 $\chi^2$/NDF:5.2/5

Left: -147.114+/-160.813 $\chi^2$/NDF: 19.7/12

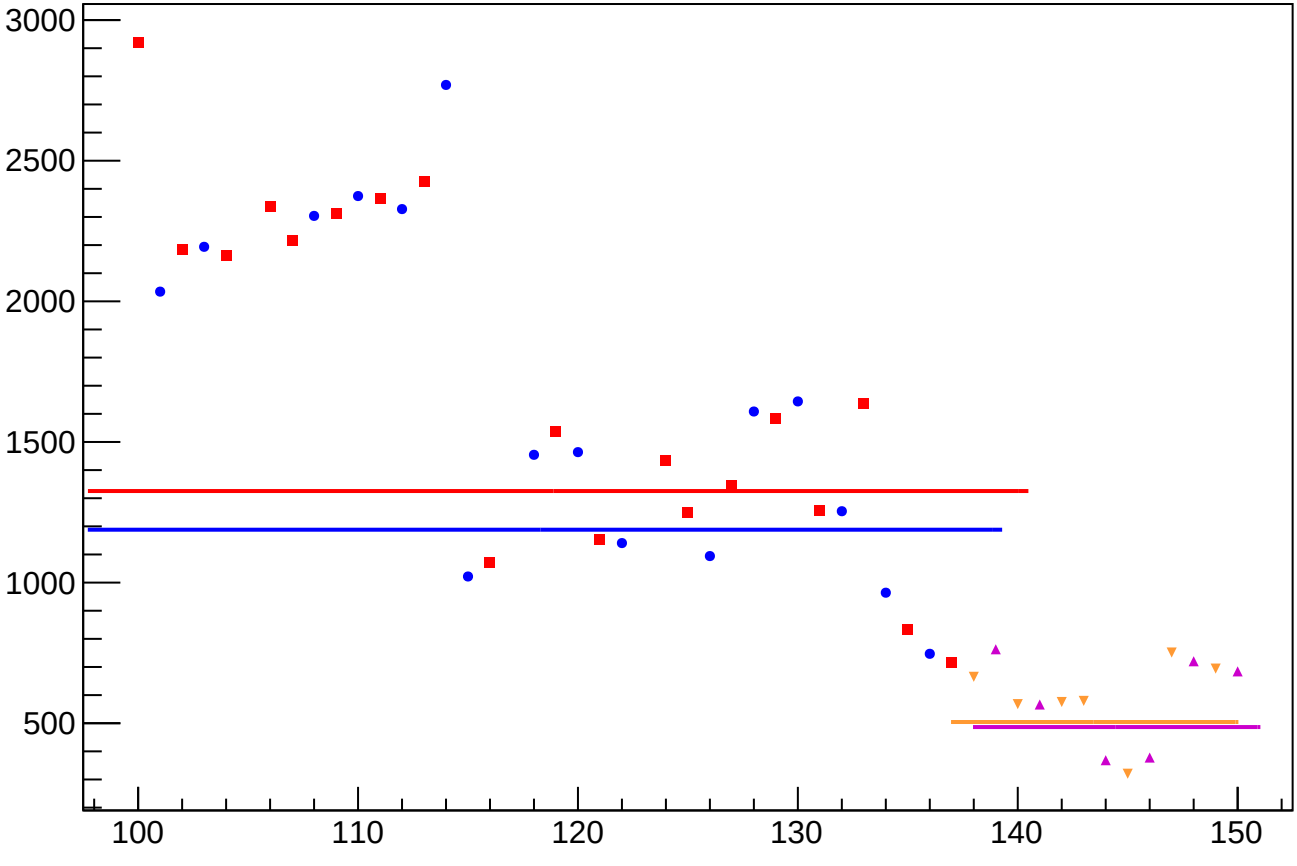
Right: -432.941+/-352.955 $\chi^2$/NDF: 34.8/34

In: -223.177+/-203.276 $\chi^2$/NDF:26.1/21

Out: -167.279+/-210.843 $\chi^2$/NDF:28.9/25

All: -196.249+/-146.340 $\chi^2$/NDF: 55.1/47

asym_sam_26_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044666.3/15

Left Out: 504.374+/-0.163 $\chi^2$/NDF:968117.2/6

Right Out: 1325.564+/-0.369 $\chi^2$/NDF: 1920986.7/18

Left In: 486.419+/-0.159 $\chi^2$/NDF:894580.9/5

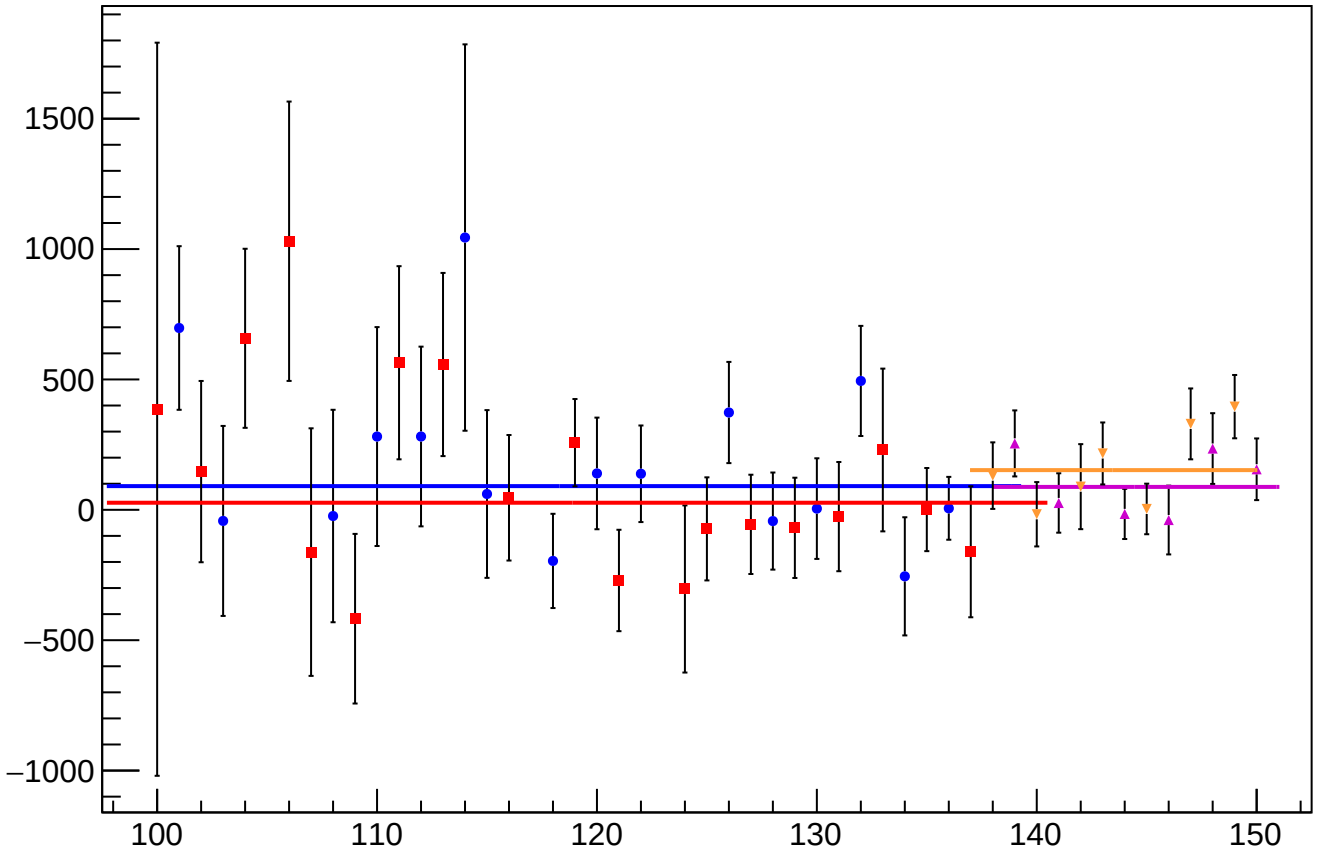
Left: 495.161+/-0.114 $\chi^2$/NDF: 1868926.7/12

Right: 1250.882+/-0.250 $\chi^2$/NDF: 4040963.9/34

In: 612.831+/-0.144 $\chi^2$/NDF:6458847.2/21

Out: 638.243+/-0.149 $\chi^2$/NDF:7028664.1/25

All: 625.073+/-0.103 $\chi^2$/NDF: 13502569.3/47




Right In: 90.908+/-55.565 $\chi^2$/NDF: 18.1/15

Left Out: 152.246+/-46.433 $\chi^2$/NDF:10.4/6

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 87.858+/-48.181 $\chi^2$/NDF:5.6/5

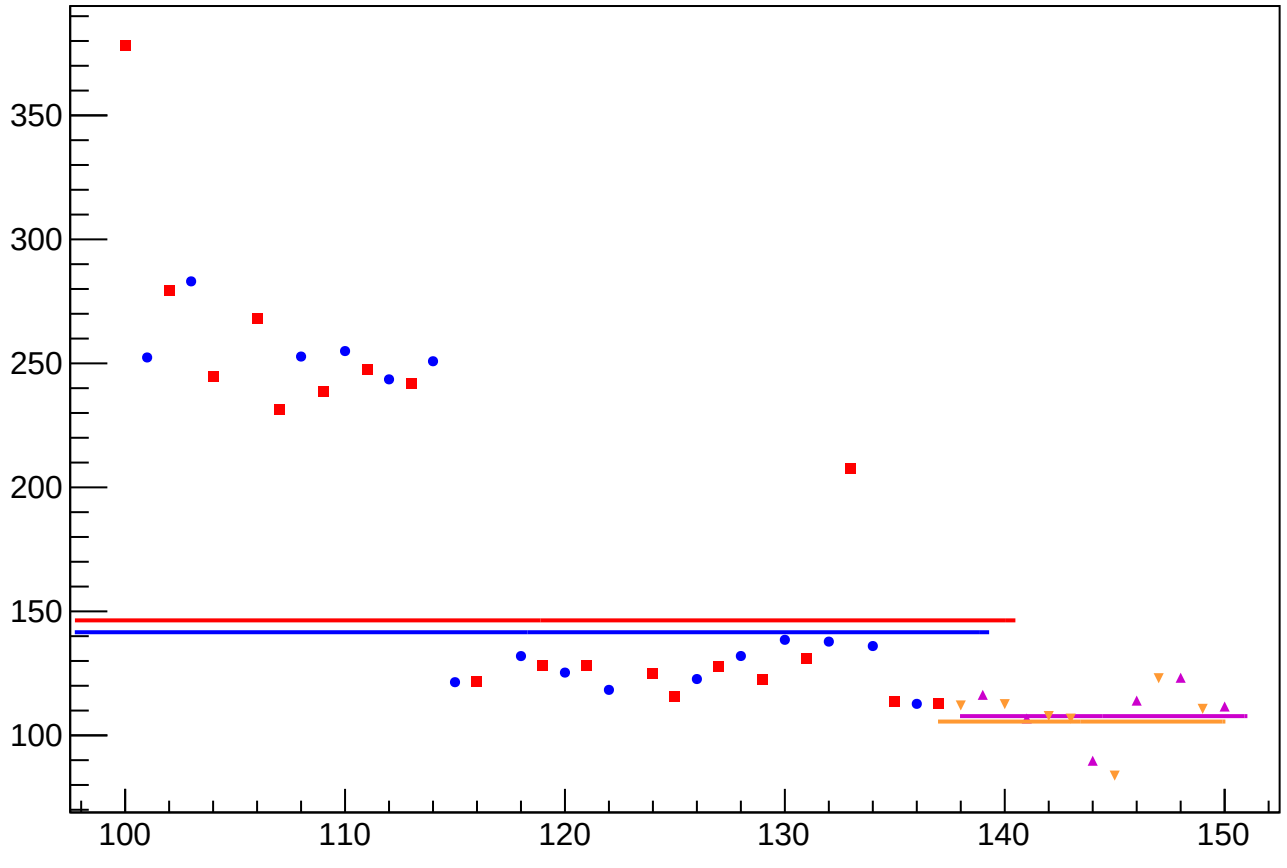
Left: 121.241+/-33.434 $\chi^2$/NDF: 17.0/12

Right: 59.860+/-39.793 $\chi^2$/NDF: 39.3/34

In: 89.167+/-36.402 $\chi^2$/NDF:23.7/21

Out: 102.370+/-36.004 $\chi^2$/NDF:33.9/25

All: 95.841+/-25.598 $\chi^2$/NDF: 57.6/47




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262366.8/15

Left Out: 105.569+/-0.033 $\chi^2$/NDF:149898.7/6

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513656.0/18

Left In: 107.757+/-0.034 $\chi^2$/NDF:111894.6/5

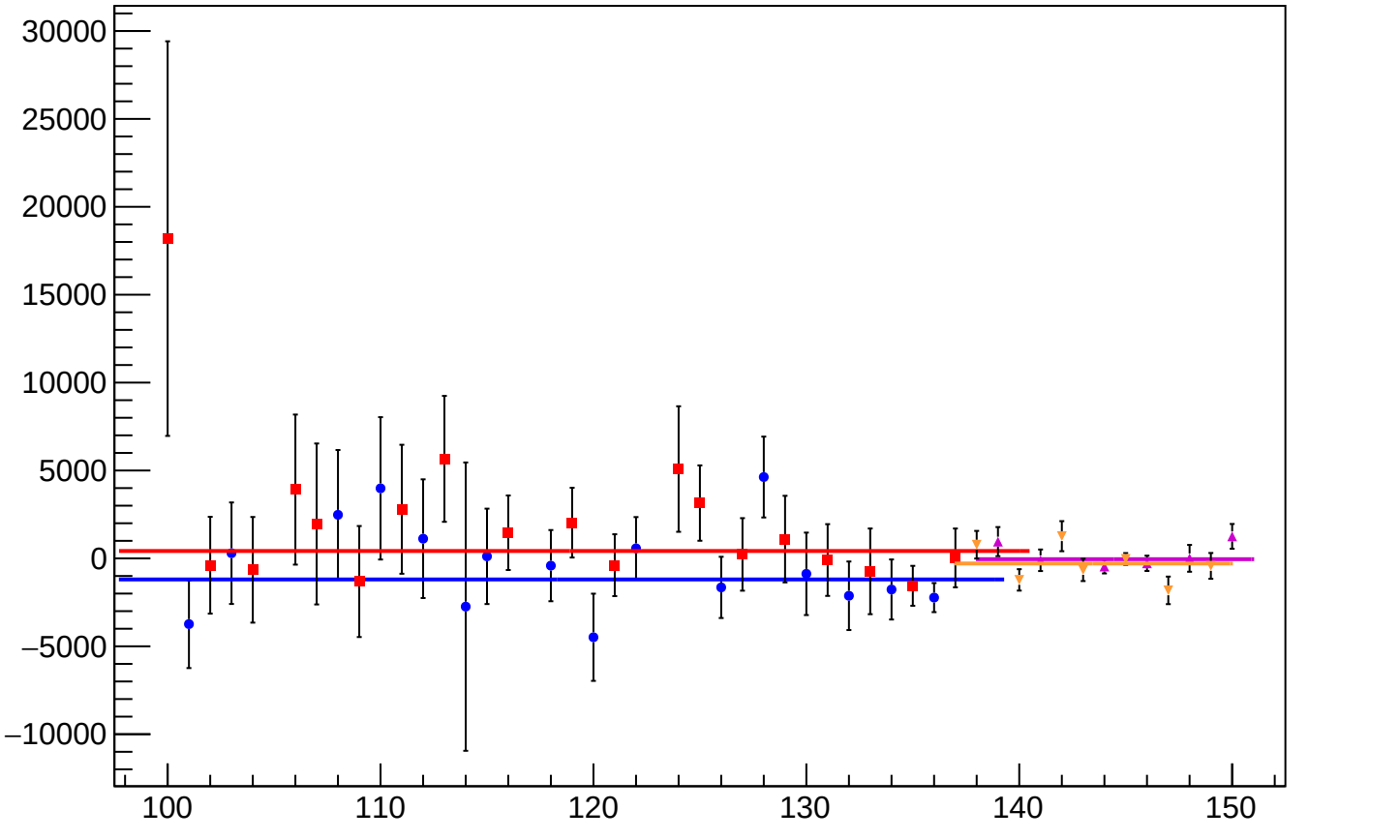
Left: 106.623+/-0.024 $\chi^2$/NDF: 263932.0/12

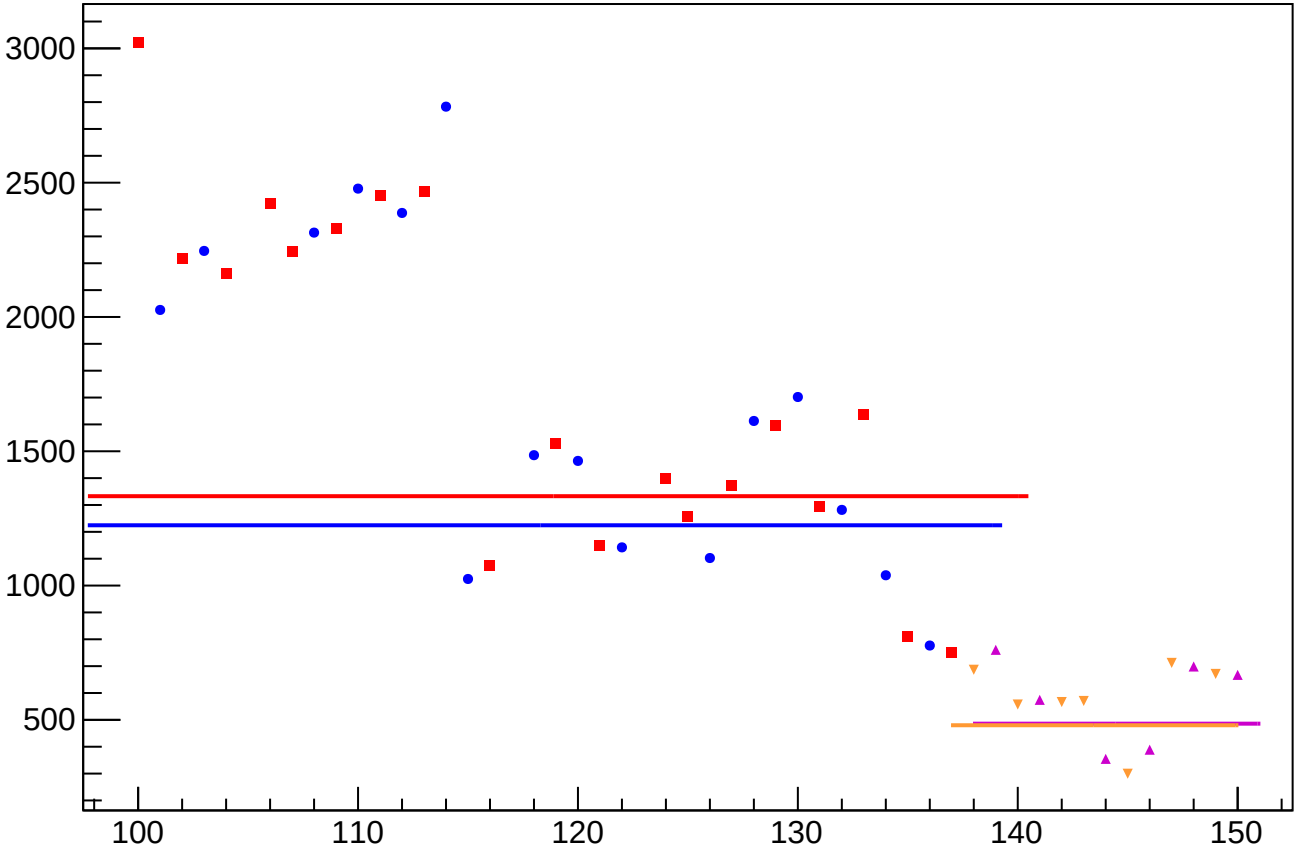
Right: 143.916+/-0.028 $\chi^2$/NDF: 2783239.3/34

In: 122.276+/-0.026 $\chi^2$/NDF:1797423.9/21

Out: 121.839+/-0.025 $\chi^2$/NDF:2279296.9/25

All: 122.055+/-0.018 $\chi^2$/NDF: 4076867.0/47


asym_sam_26_avg_dit_correction_mean vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
Right In: -1196.663+/-491.384 χ²/NDF: 16.0/15
Left Out: -289.147+/-220.233 χ²/NDF:12.3/6
Right Out: 422.161+/-523.834 χ²/NDF: 14.3/18
Left In: -44.030+/-225.479 χ²/NDF:6.3/5
Left: -169.474+/-157.550 χ²/NDF: 19.2/12
Right: -438.942+/-358.384 χ²/NDF: 35.3/34
In: -244.513+/-204.934 χ²/NDF:26.8/21
Out: -182.304+/-203.020 χ²/NDF:28.1/25
All: -213.117+/-144.229 χ²/NDF: 55.0/47




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959362.3/15

Left Out: 479.954+/-0.156 $\chi^2$/NDF:1126594.5/6

Right Out: 1332.785+/-0.370 $\chi^2$/NDF: 1994811.5/18

Left In: 485.841+/-0.159 $\chi^2$/NDF:874694.1/5

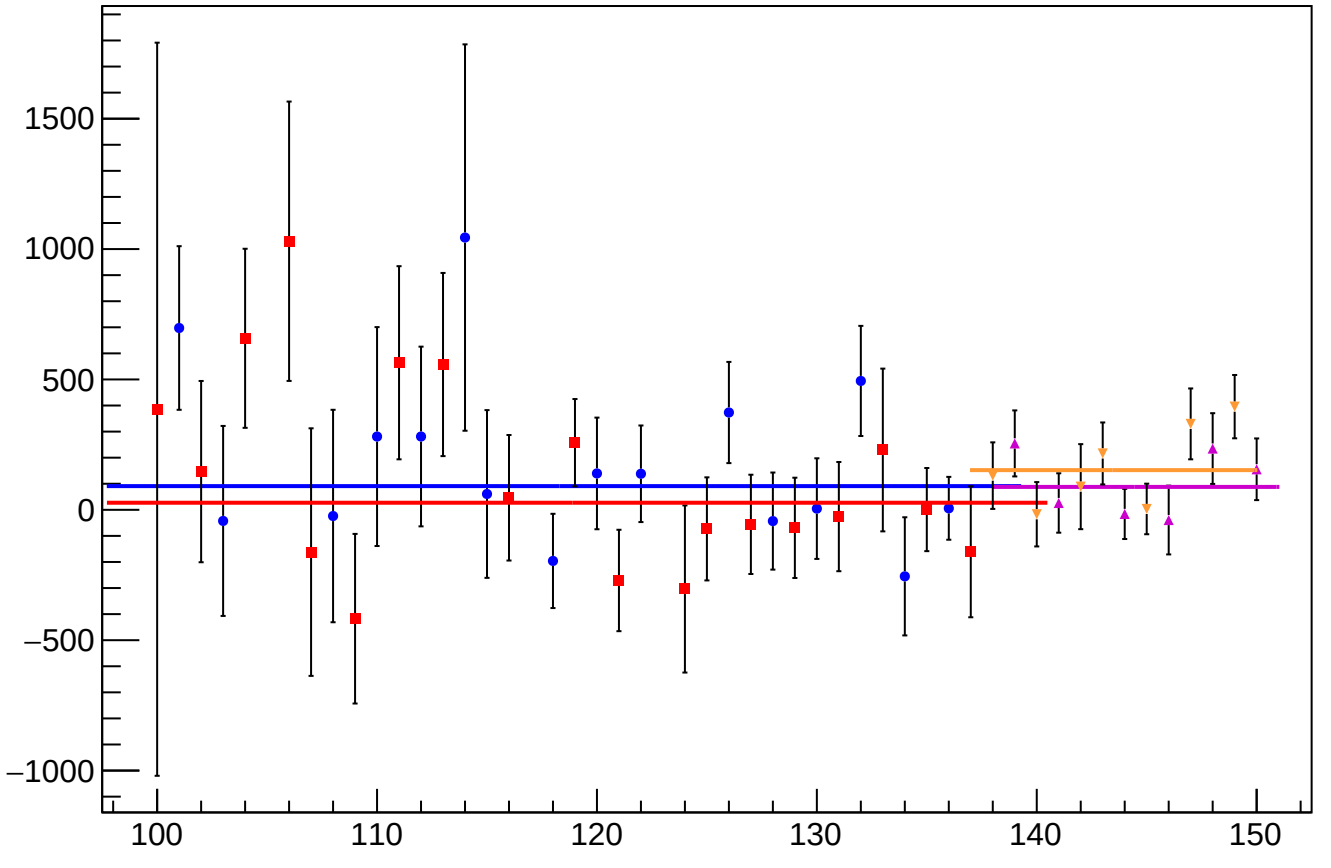
Left: 482.828+/-0.111 $\chi^2$/NDF: 2001986.2/12

Right: 1275.169+/-0.253 $\chi^2$/NDF: 3999659.2/34

In: 614.314+/-0.145 $\chi^2$/NDF:6567039.0/21

Out: 608.055+/-0.144 $\chi^2$/NDF:7626268.2/25

All: 611.155+/-0.102 $\chi^2$/NDF: 14194248.6/47




Right In: 90.910+/-55.564 $\chi^2$/NDF: 18.1/15

Left Out: 152.245+/-46.434 $\chi^2$/NDF:10.4/6

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 87.857+/-48.181 $\chi^2$/NDF:5.6/5

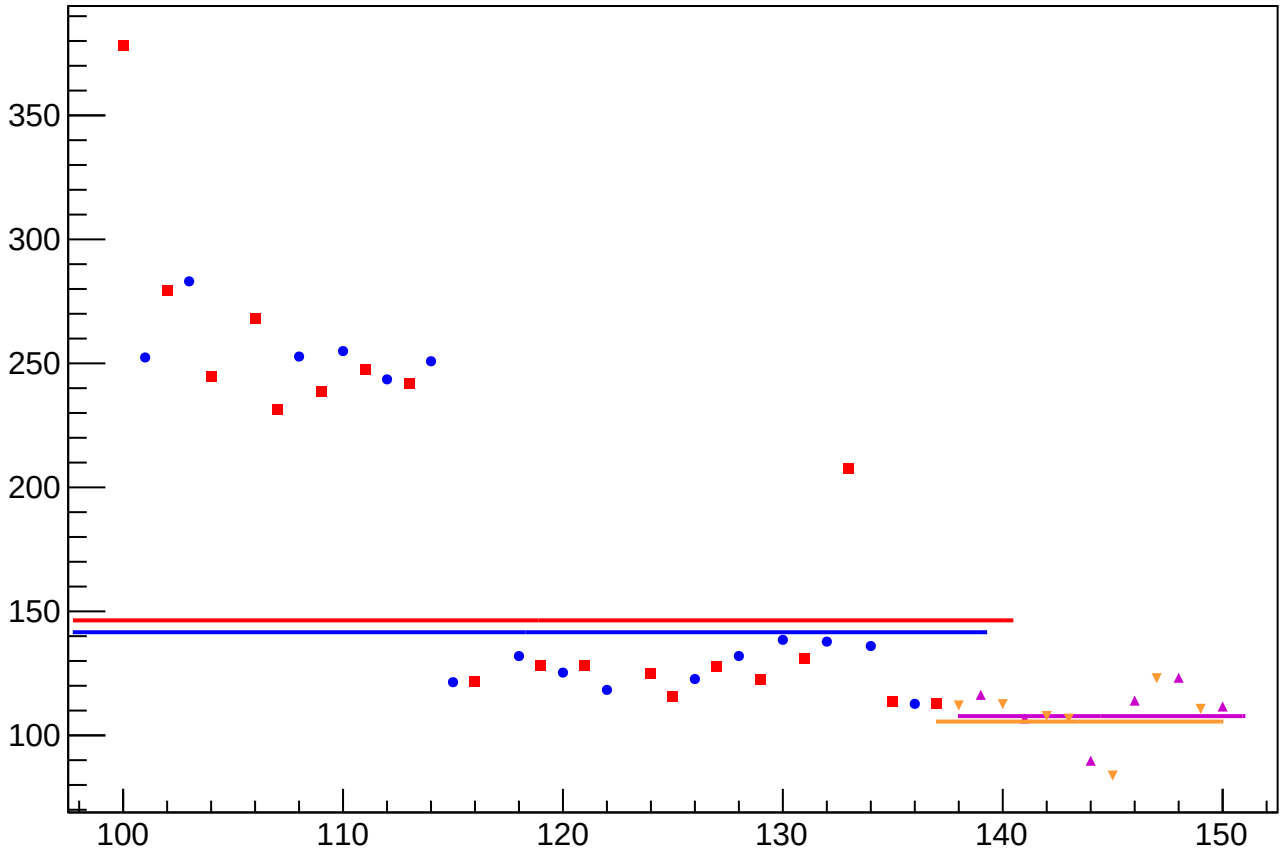
Left: 121.240+/-33.434 $\chi^2$/NDF: 17.0/12

Right: 59.862+/-39.793 $\chi^2$/NDF: 39.3/34

In: 89.168+/-36.402 $\chi^2$/NDF:23.7/21

Out: 102.369+/-36.004 $\chi^2$/NDF:33.9/25

All: 95.841+/-25.598 $\chi^2$/NDF: 57.6/47




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262350.2/15

Left Out: 105.569+/-0.033 $\chi^2$/NDF:149889.4/6

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513641.5/18

Left In: 107.758+/-0.034 $\chi^2$/NDF:111891.6/5

Left: 106.623+/-0.024 $\chi^2$/NDF: 263919.7/12

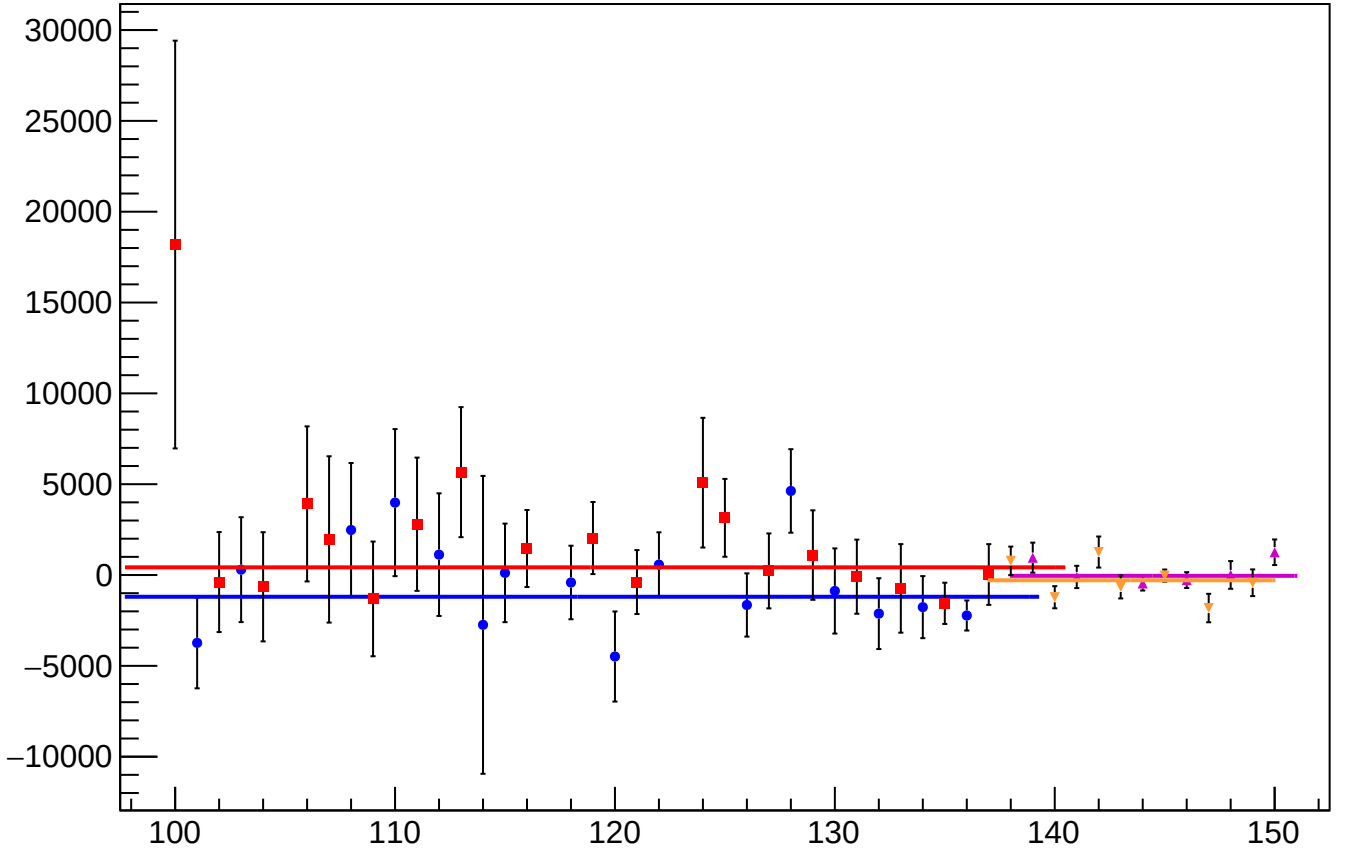
Right: 143.915+/-0.028 $\chi^2$/NDF: 2783209.2/34

In: 122.276+/-0.026 $\chi^2$/NDF:1797374.9/21

Out: 121.839+/-0.025 $\chi^2$/NDF:2279246.3/25

All: 122.055+/-0.018 $\chi^2$/NDF: 4076767.4/47

asym_sam_26_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1196.659+/-491.383 $\chi^2$/NDF: 16.0/15

Left Out: -289.147+/-220.232 $\chi^2$/NDF:12.3/6

Right Out: 422.163+/-523.833 $\chi^2$/NDF: 14.3/18

Left In: -44.031+/-225.479 $\chi^2$/NDF:6.3/5

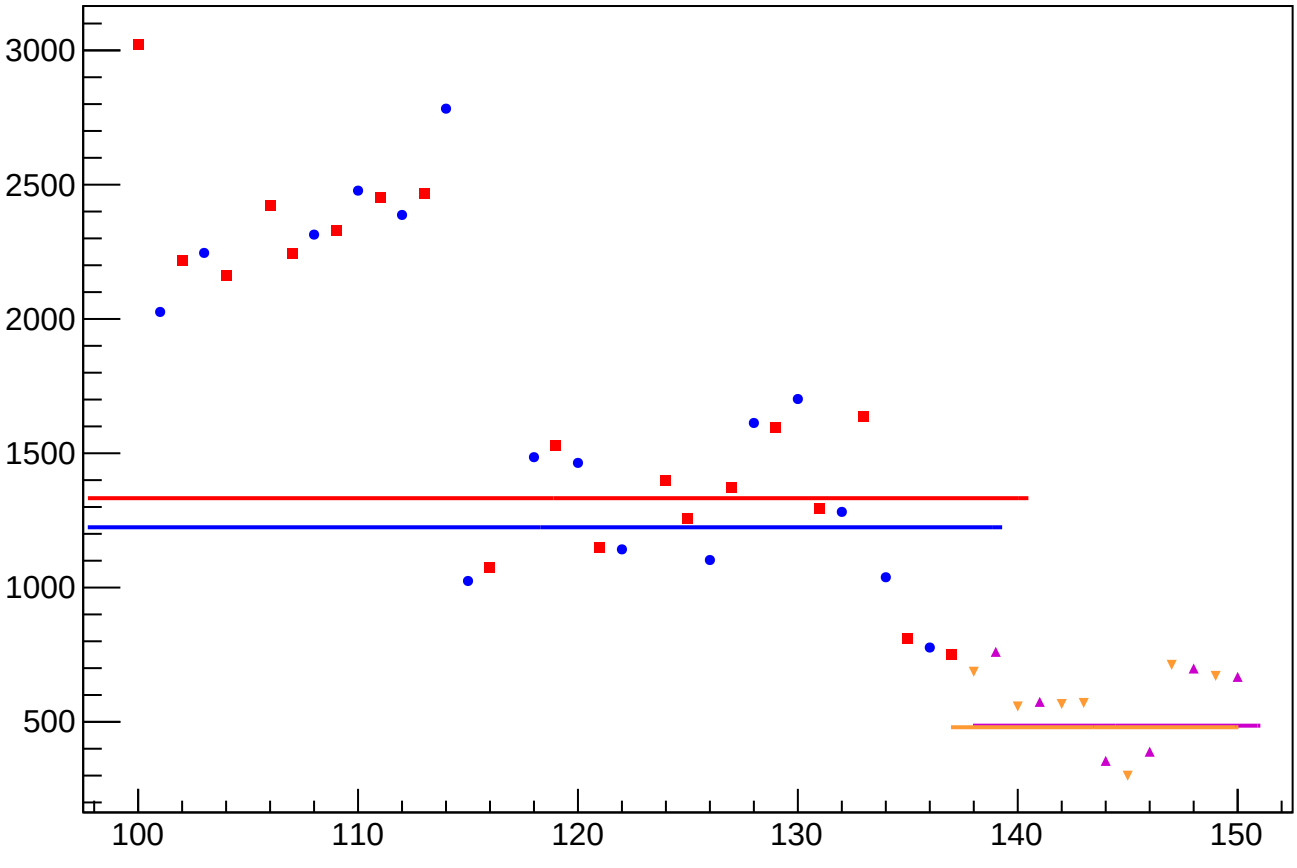
Left: -169.474+/-157.550 $\chi^2$/NDF: 19.2/12

Right: -438.939+/-358.384 $\chi^2$/NDF: 35.3/34

In: -244.512+/-204.933 $\chi^2$/NDF:26.8/21

Out: -182.304+/-203.019 $\chi^2$/NDF:28.1/25

All: -213.116+/-144.228 $\chi^2$/NDF: 55.0/47




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959341.1/15

Left Out: 479.951+/-0.156 $\chi^2$/NDF:1126621.5/6

Right Out: 1332.784+/-0.370 $\chi^2$/NDF: 1994794.3/18

Left In: 485.839+/-0.159 $\chi^2$/NDF:874700.5/5

Left: 482.826+/-0.111 $\chi^2$/NDF: 2002020.0/12

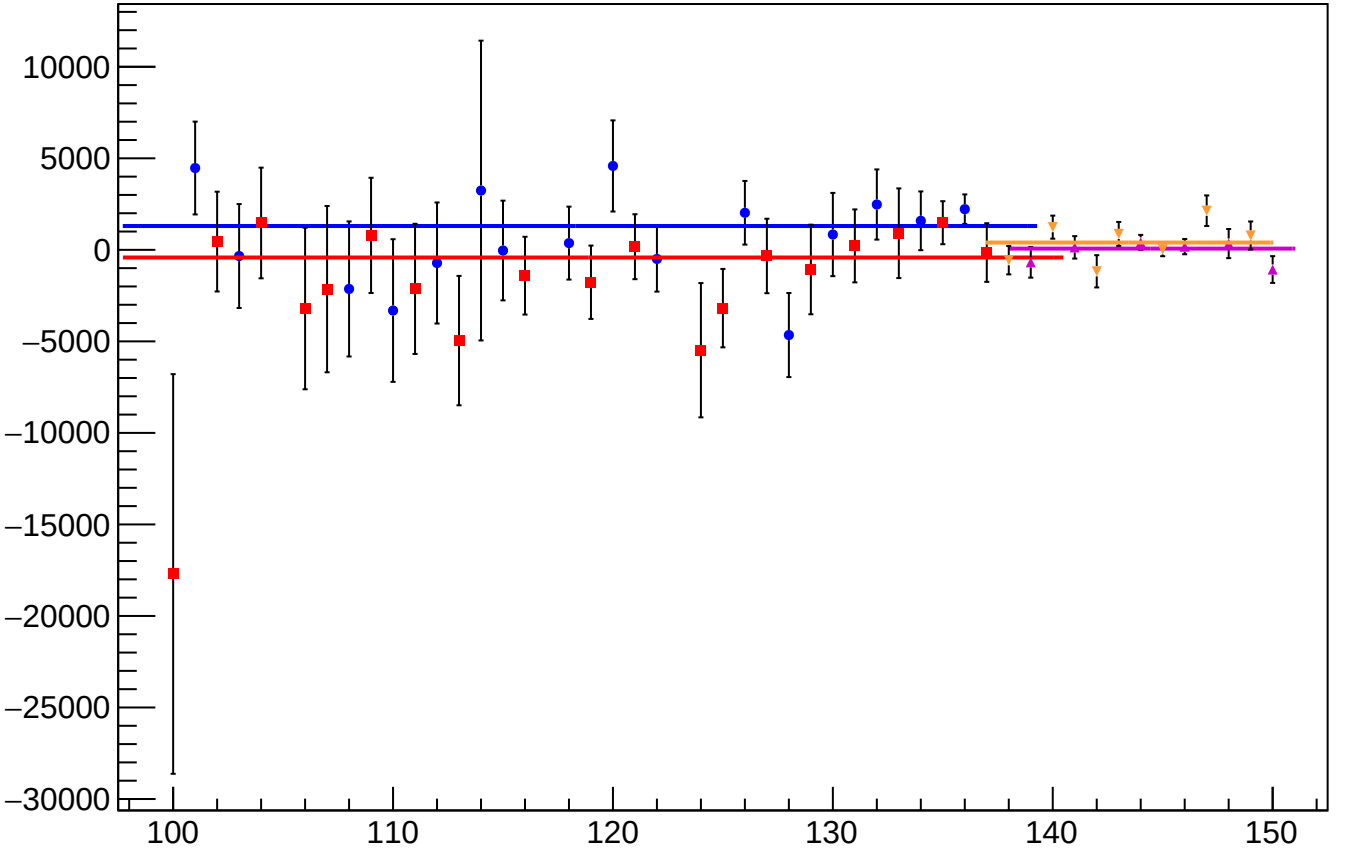
Right: 1275.168+/-0.253 $\chi^2$/NDF: 3999620.7/34

In: 614.312+/-0.145 $\chi^2$/NDF:6567044.1/21

Out: 608.052+/-0.144 $\chi^2$/NDF:7626312.4/25

All: 611.153+/-0.102 $\chi^2$/NDF: 14194298.2/47

# asym_sam_26_avg_mean vs Slug, Sign Corrected




Right In: 1301.623+/-481.959 $\chi^2$/NDF: 16.5/15

Left Out: 399.244+/-234.231 $\chi^2$/NDF:12.7/6

Right Out: -418.283+/-524.515 $\chi^2$/NDF: 13.0/18

Left In: 67.451+/-228.408 $\chi^2$/NDF:4.1/5

Left: 229.172+/-163.529 $\chi^2$/NDF: 17.8/12

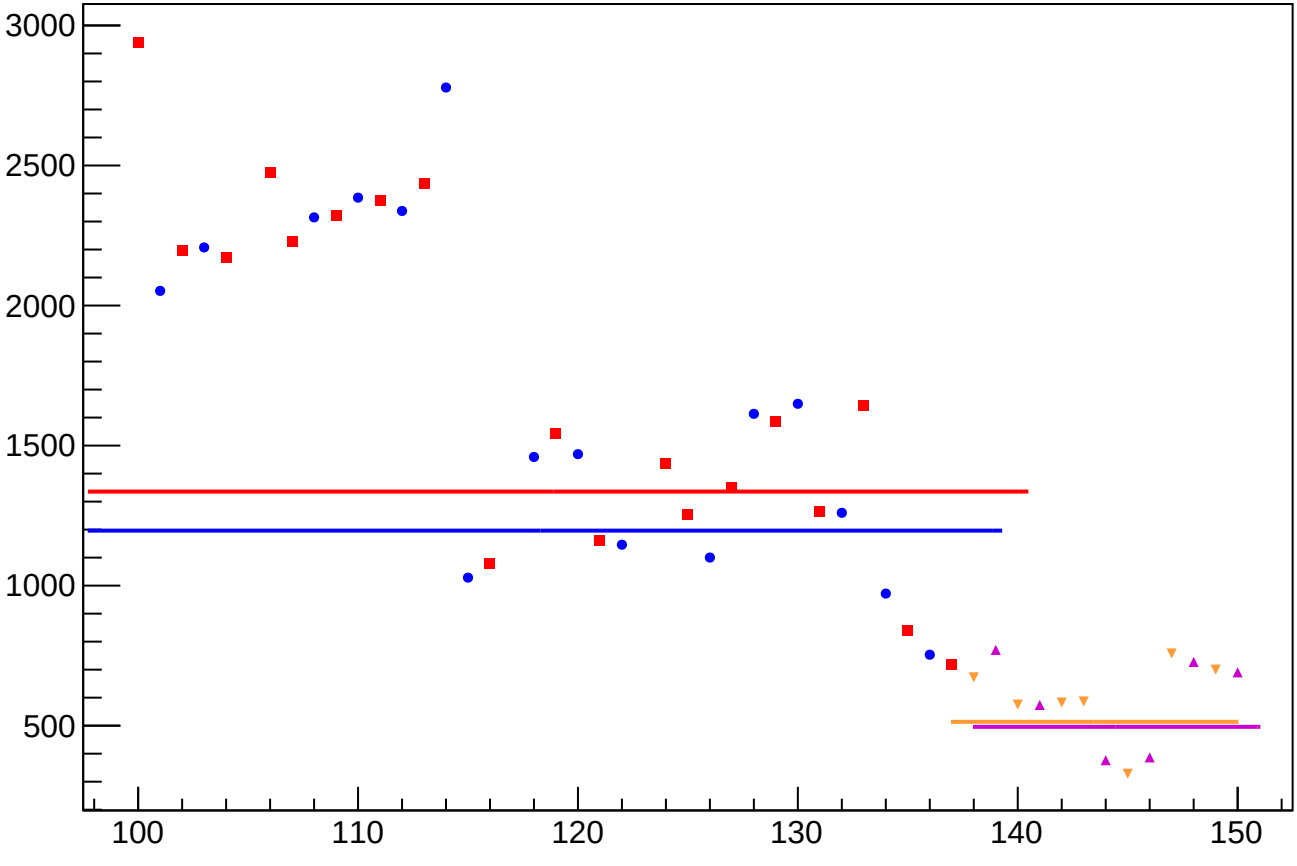
Right: 514.263+/-354.889 $\chi^2$/NDF: 35.3/34

In: 293.803+/-206.402 $\chi^2$/NDF:25.9/21

Out: 263.318+/-213.874 $\chi^2$/NDF:27.7/25

All: 279.102+/-148.520 $\chi^2$/NDF: 53.7/47

# asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 1196.353+/-0.341 $\chi^2$/NDF: 2031710.2/15

Left Out: 513.729+/-0.166 $\chi^2$/NDF:928249.7/6

Right Out: 1335.809+/-0.371 $\chi^2$/NDF: 1951472.1/18

Left In: 495.823+/-0.162 $\chi^2$/NDF:862820.8/5

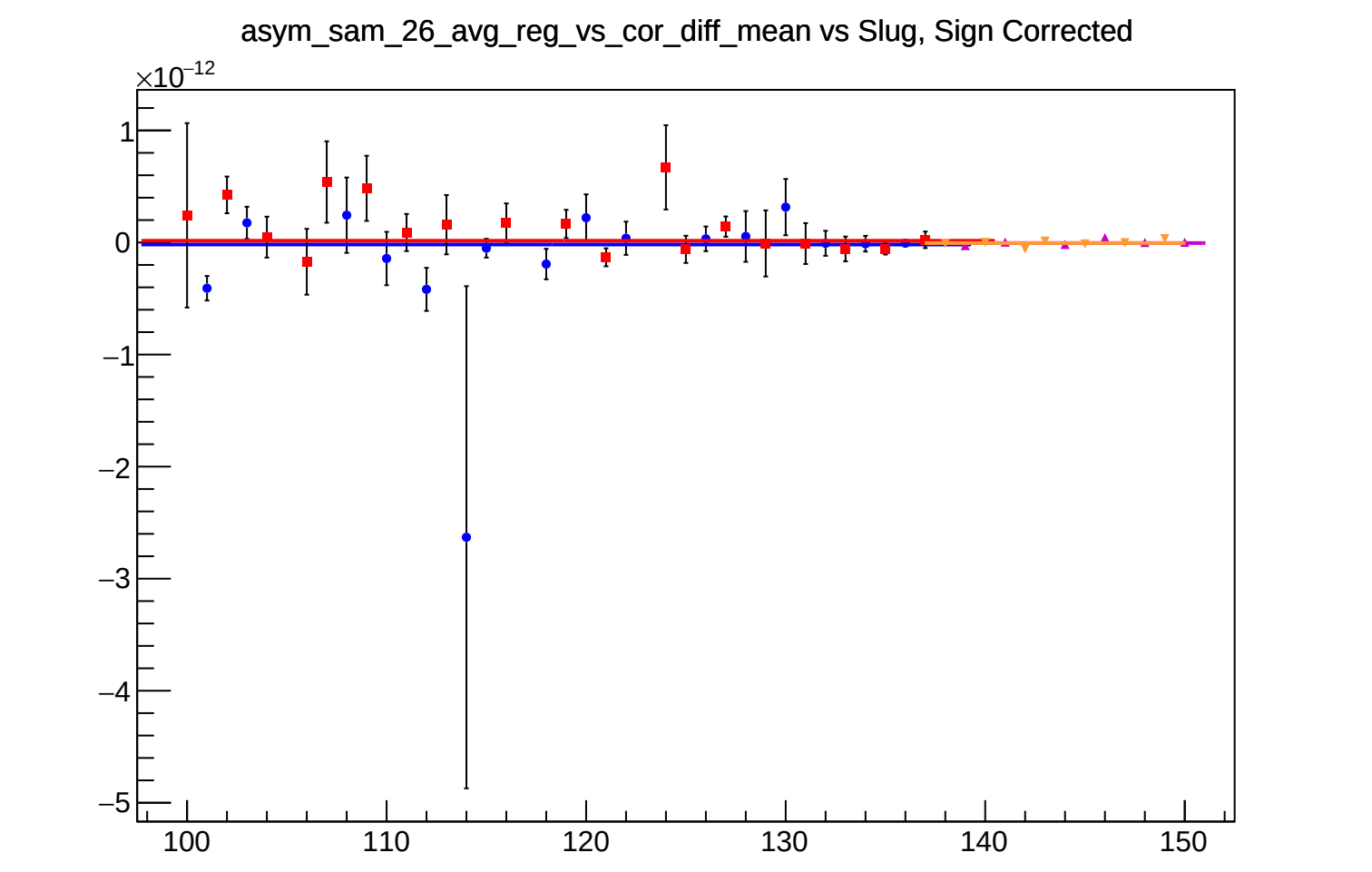
Left: 504.551+/-0.116 $\chi^2$/NDF: 1797061.9/12

Right: 1260.195+/-0.251 $\chi^2$/NDF: 4059839.9/34

In: 624.303+/-0.146 $\chi^2$/NDF:6344942.7/21

Out: 650.413+/-0.151 $\chi^2$/NDF:6975811.8/25

All: 636.894+/-0.105 $\chi^2$/NDF: 13336187.4/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:9.7/5

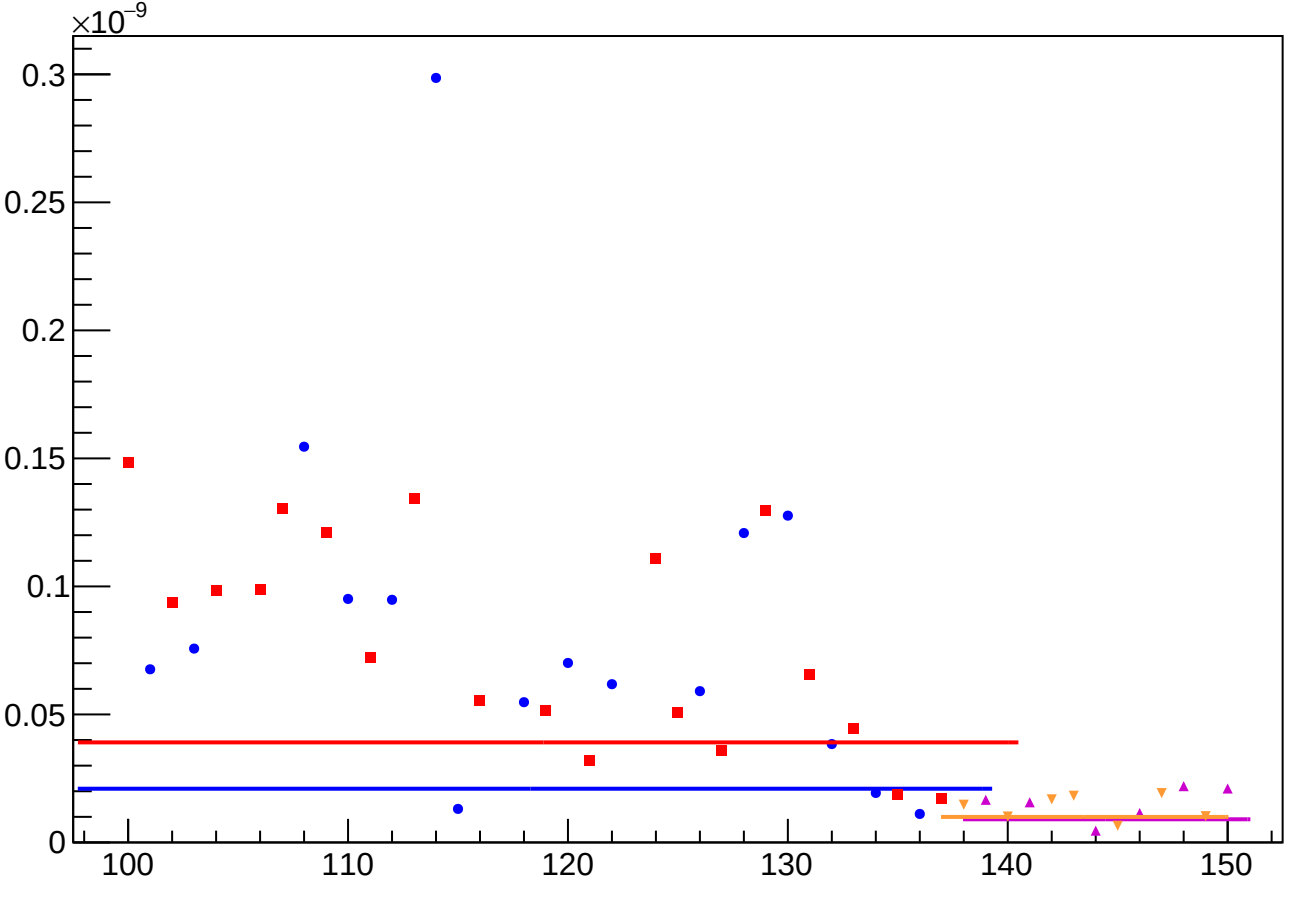
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.7/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:32.1/25

All: -0.000+/-0.000 $\chi^2$/NDF: 69.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3380958.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:649386.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2073862.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1279592.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1944527.3/12

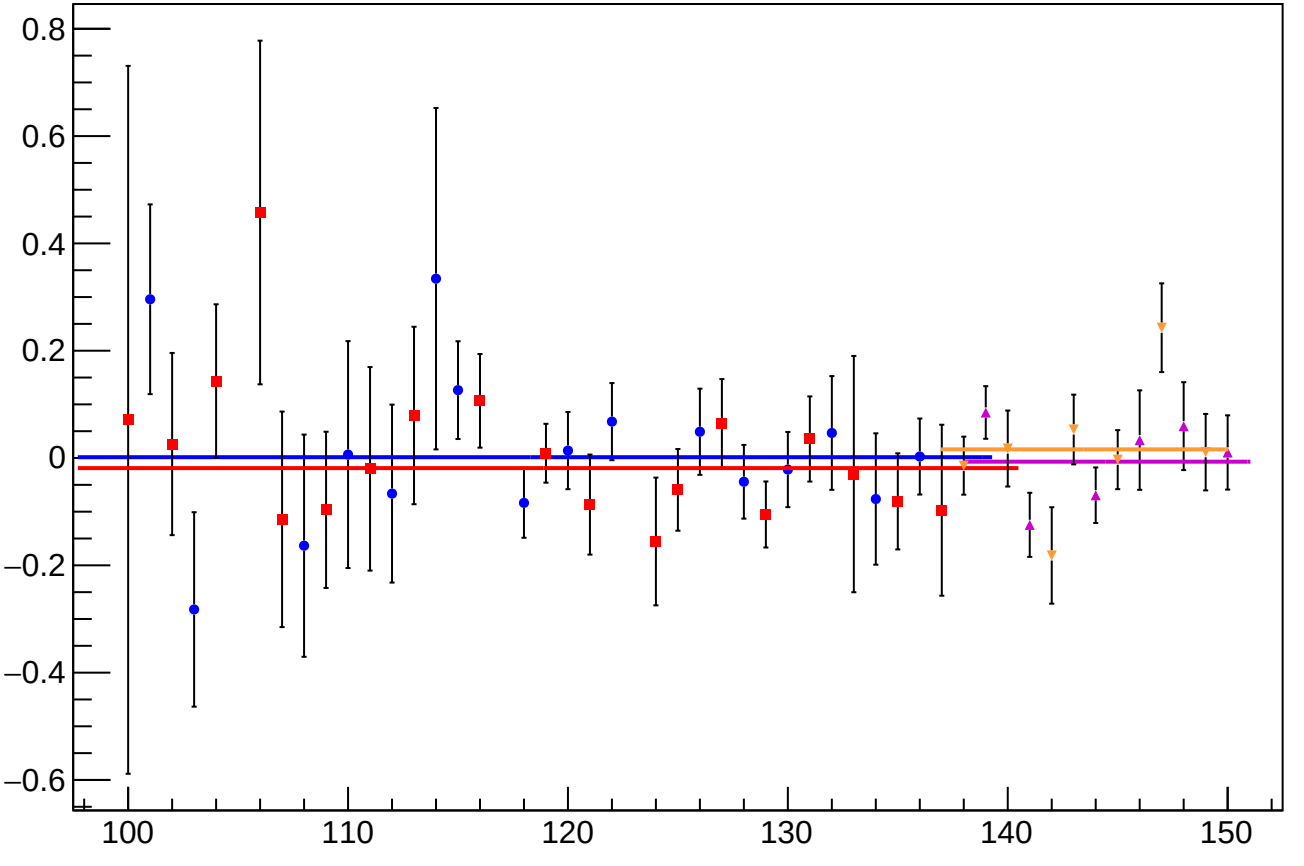
Right: 0.000+/-0.000 $\chi^2$/NDF: 6062420.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5428769.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4800827.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 10256797.1/47

asym_sam_26_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.016+/-0.025 $\chi^2$/NDF:13.1/6

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.007+/-0.025 $\chi^2$/NDF:9.7/5

Left: 0.005+/-0.018 $\chi^2$/NDF: 23.3/12

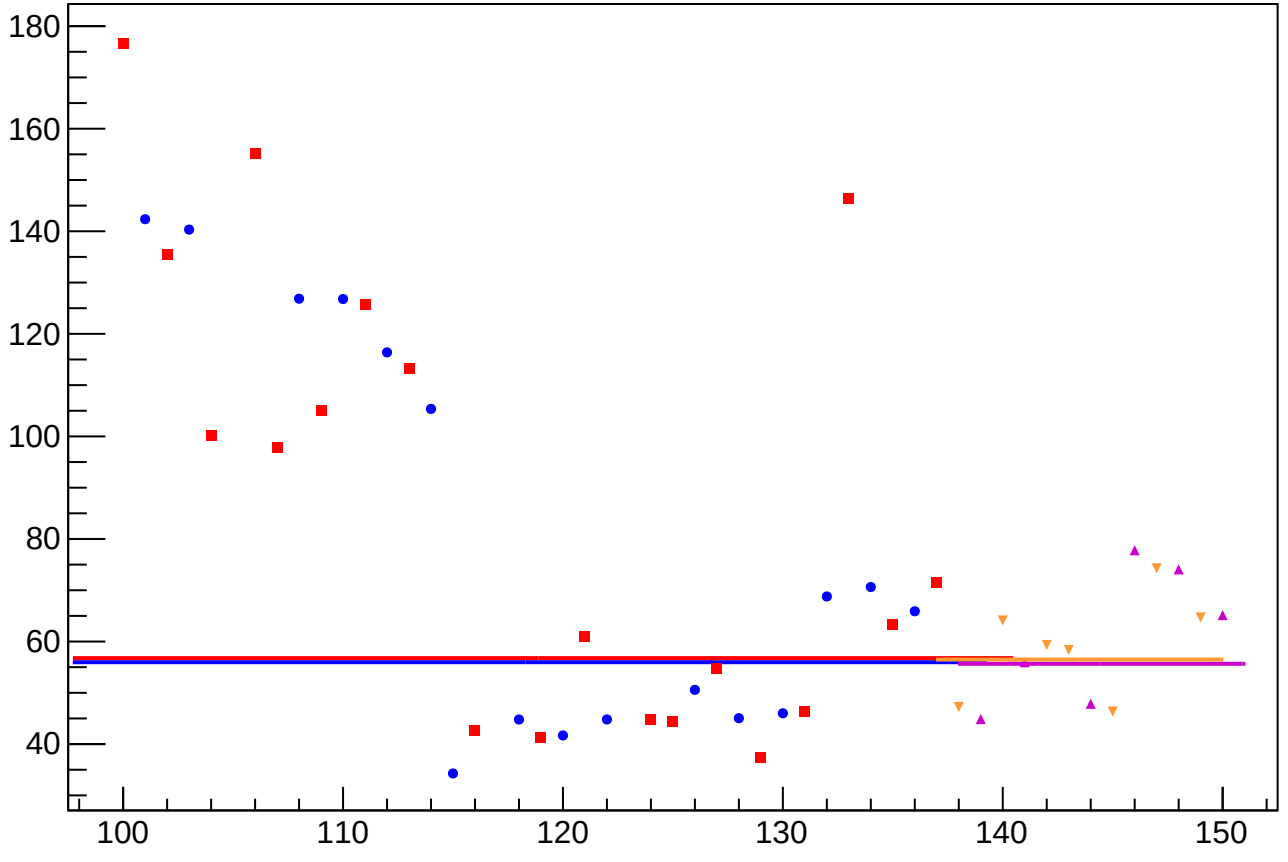
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.002+/-0.017 $\chi^2$/NDF:22.9/21

Out: -0.003+/-0.017 $\chi^2$/NDF:27.2/25

All: -0.002+/-0.012 $\chi^2$/NDF: 50.1/47

asym_sam_26_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 56.494+/-0.018 $\chi^2$/NDF:272505.0/6

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 55.662+/-0.018 $\chi^2$/NDF:394667.8/5

Left: 56.082+/-0.013 $\chi^2$/NDF: 668251.2/12

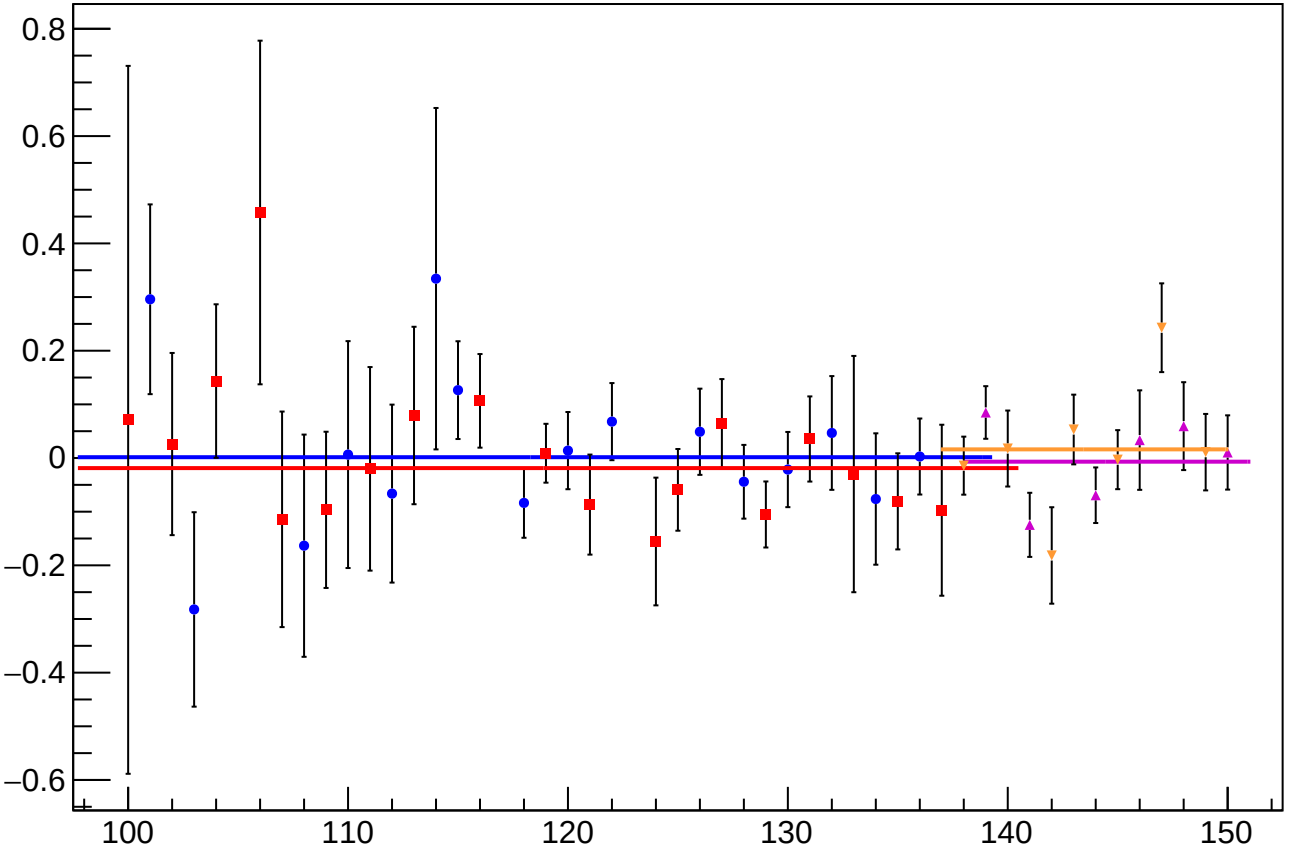
Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 55.828+/-0.012 $\chi^2$/NDF:2574654.0/21

Out: 56.641+/-0.012 $\chi^2$/NDF:2825857.4/25

All: 56.236+/-0.009 $\chi^2$/NDF: 5402745.7/47

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.016+/-0.025 $\chi^2$/NDF:13.1/6

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.007+/-0.025 $\chi^2$/NDF:9.7/5

Left: 0.005+/-0.018 $\chi^2$/NDF: 23.3/12

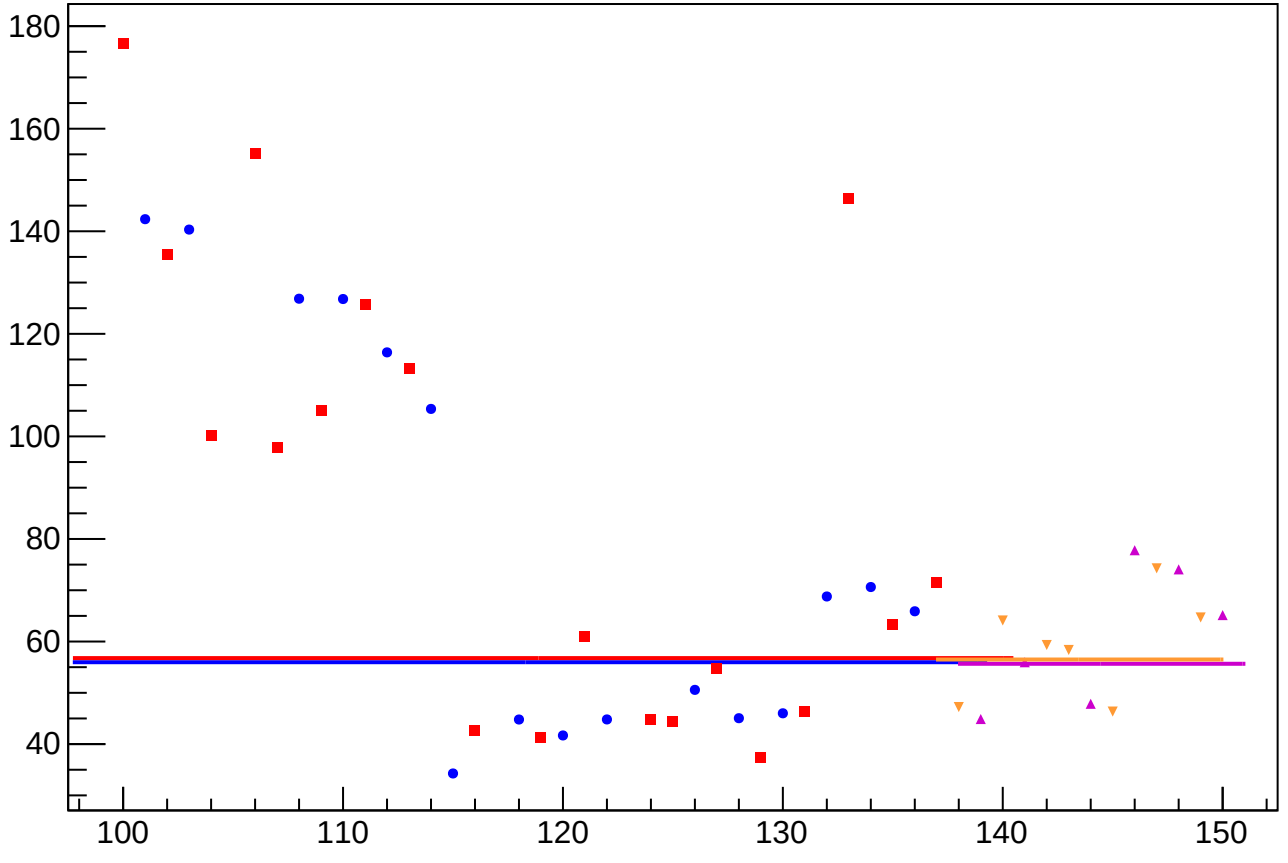
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.002+/-0.017 $\chi^2$/NDF:22.9/21

Out: -0.003+/-0.017 $\chi^2$/NDF:27.2/25

All: -0.002+/-0.012 $\chi^2$/NDF: 50.1/47

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 56.494+/-0.018 $\chi^2$/NDF:272505.0/6

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 55.662+/-0.018 $\chi^2$/NDF:394667.8/5

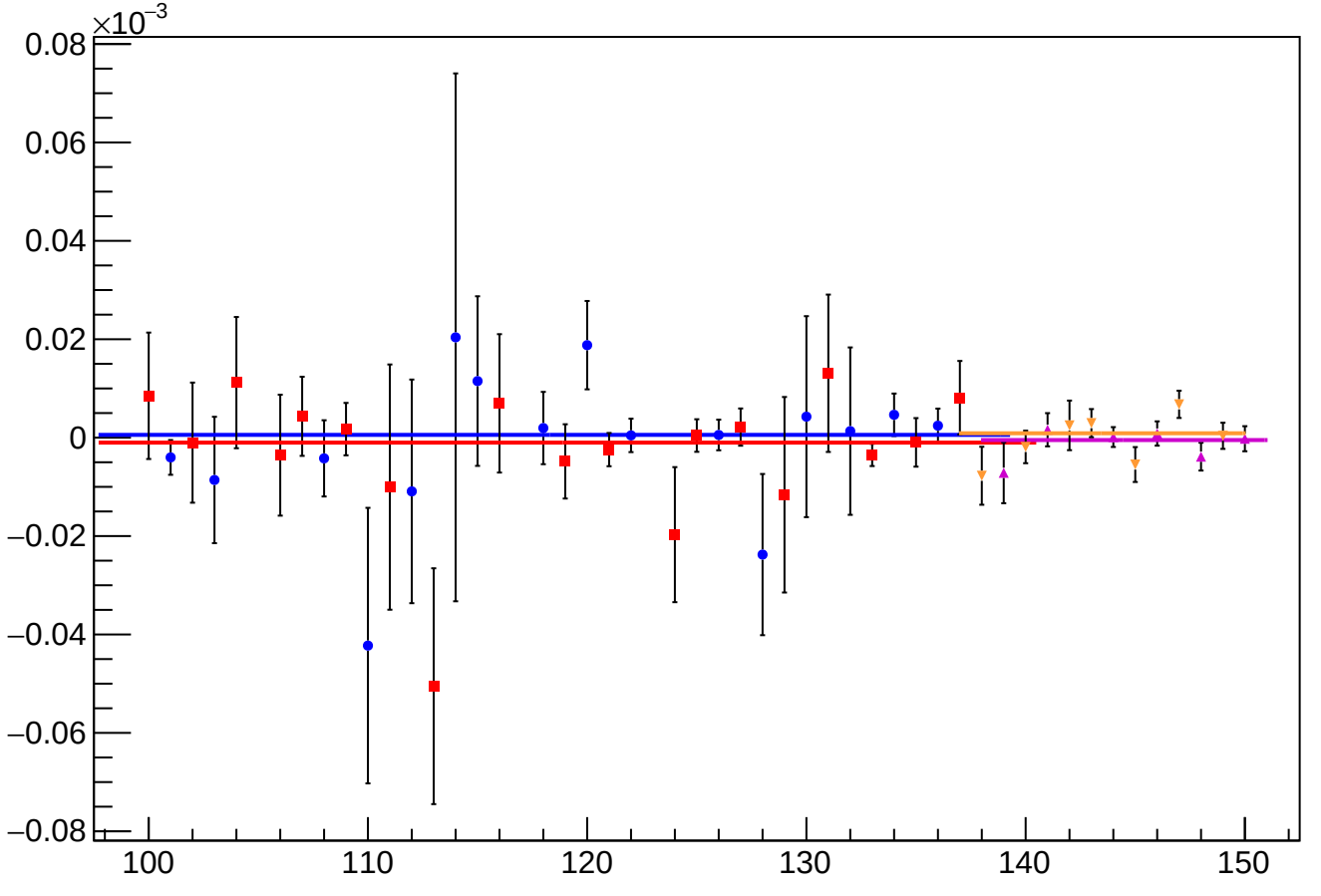
Left: 56.082+/-0.013 $\chi^2$/NDF: 668251.2/12

Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 55.828+/-0.012 $\chi^2$/NDF:2574654.0/21

Out: 56.641+/-0.012 $\chi^2$/NDF:2825857.4/25

All: 56.236+/-0.009 $\chi^2$/NDF: 5402745.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.4/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 15.3/12

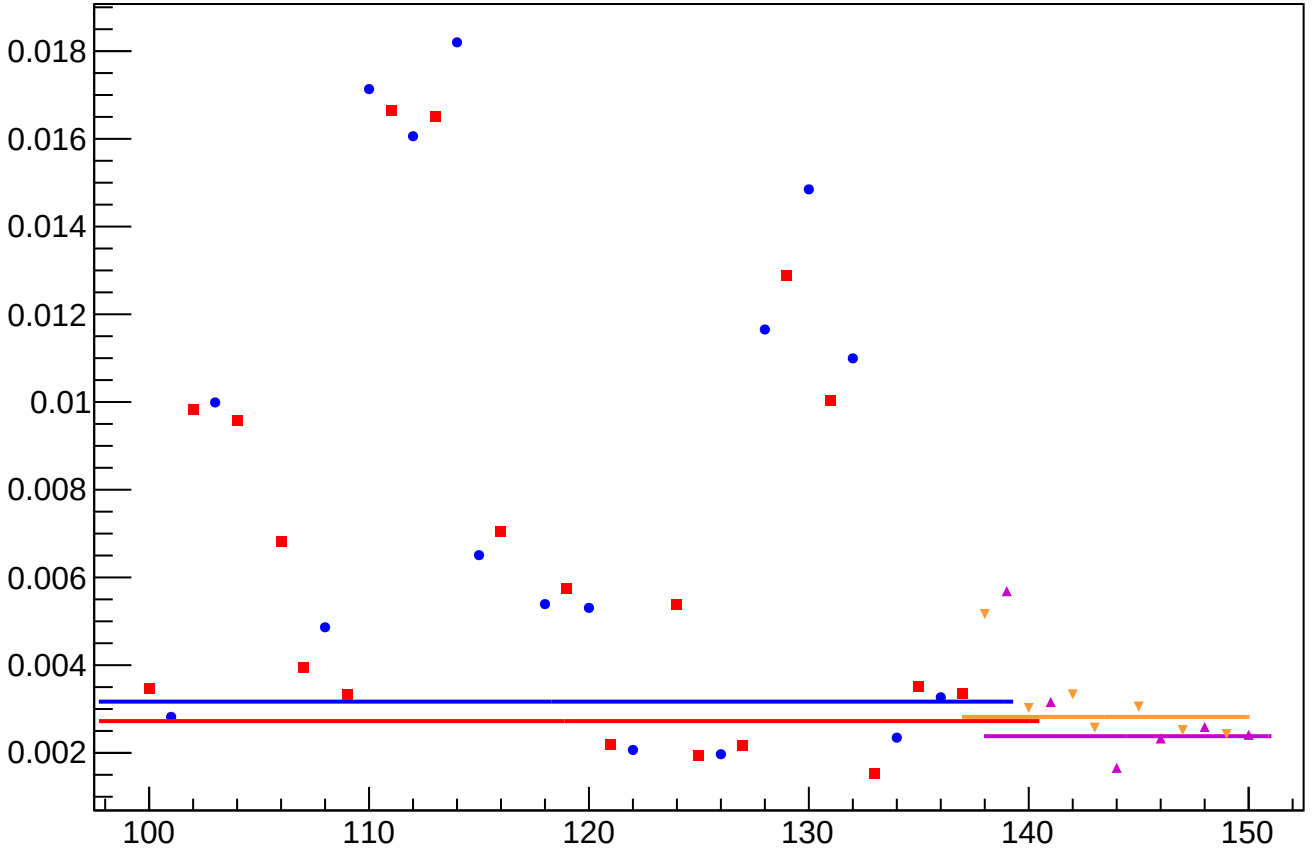
Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 43.2/47

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4545616.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:435519.2/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5153213.6/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:947507.2/5

Left: 0.003+/-0.000 $\chi^2$/NDF: 1520059.8/12

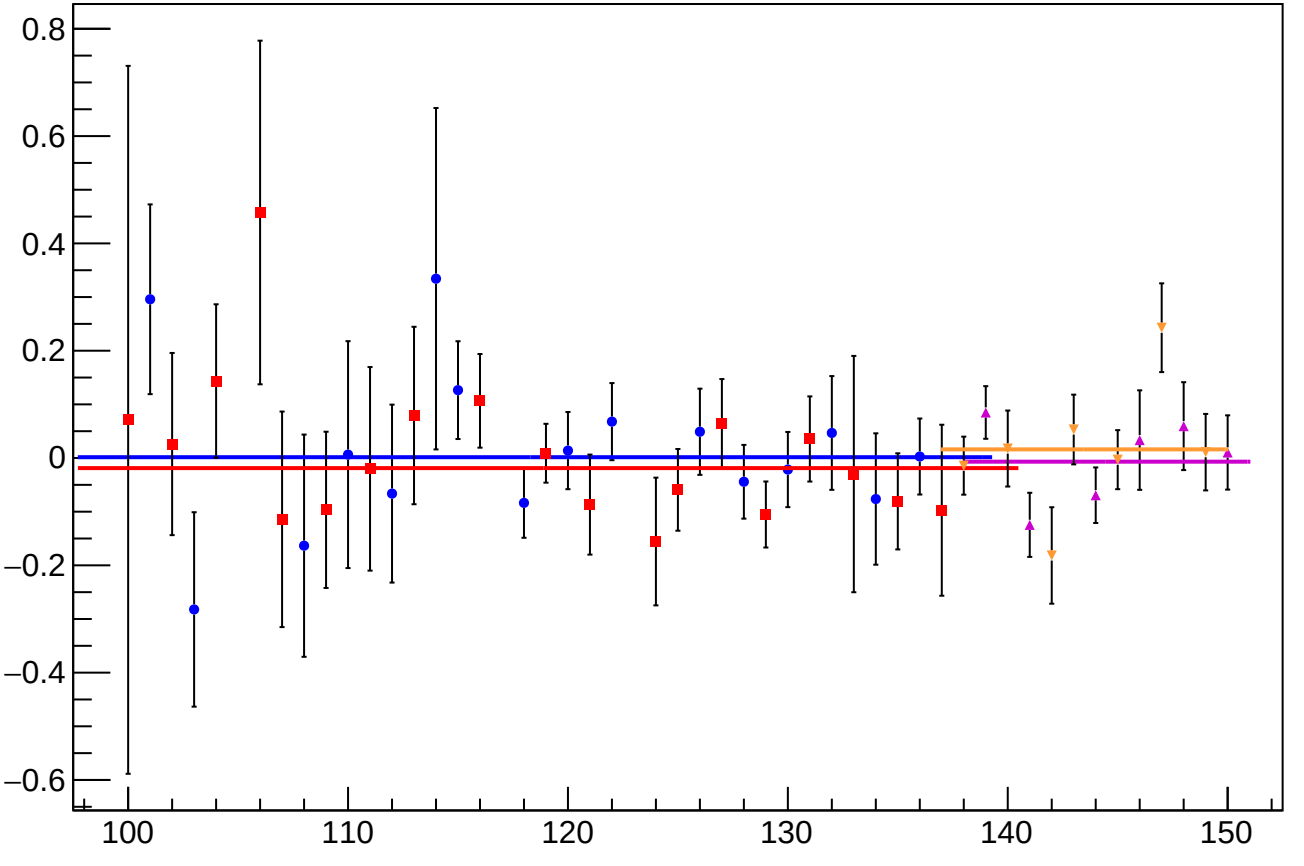
Right: 0.003+/-0.000 $\chi^2$/NDF: 9804761.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:5864453.3/21

Out: 0.003+/-0.000 $\chi^2$/NDF:5594508.7/25

All: 0.003+/-0.000 $\chi^2$/NDF: 11471308.2/47

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.016+/-0.025 $\chi^2$/NDF:13.1/6

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.007+/-0.025 $\chi^2$/NDF:9.7/5

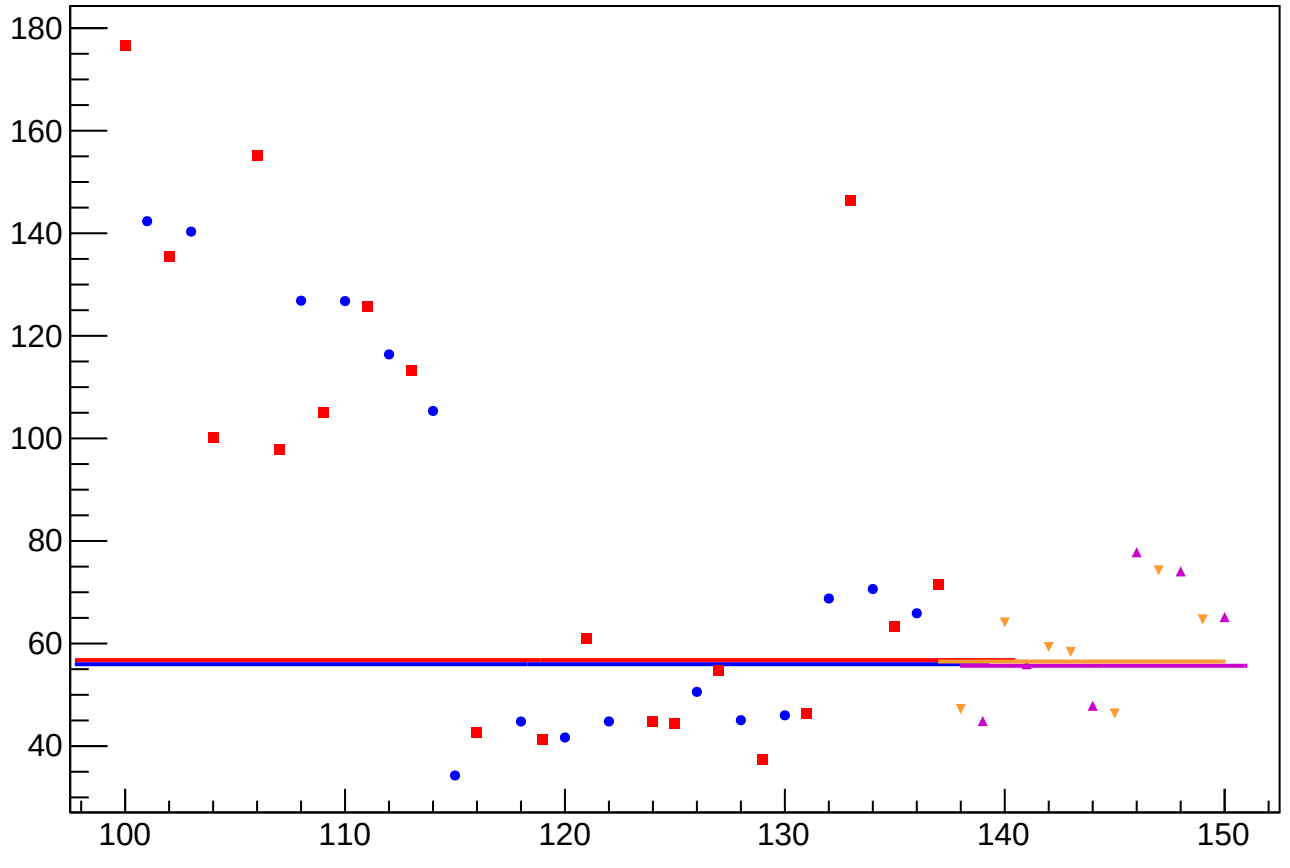
Left: 0.005+/-0.018 $\chi^2$/NDF: 23.3/12

Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.002+/-0.017 $\chi^2$/NDF:22.9/21

Out: -0.003+/-0.017 $\chi^2$/NDF:27.2/25

All: -0.002+/-0.012 $\chi^2$/NDF: 50.1/47




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179757.6/15

Left Out: 56.494+/-0.018 $\chi^2$/NDF:272498.9/6

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 55.663+/-0.018 $\chi^2$/NDF:394665.2/5

Left: 56.083+/-0.013 $\chi^2$/NDF: 668242.3/12

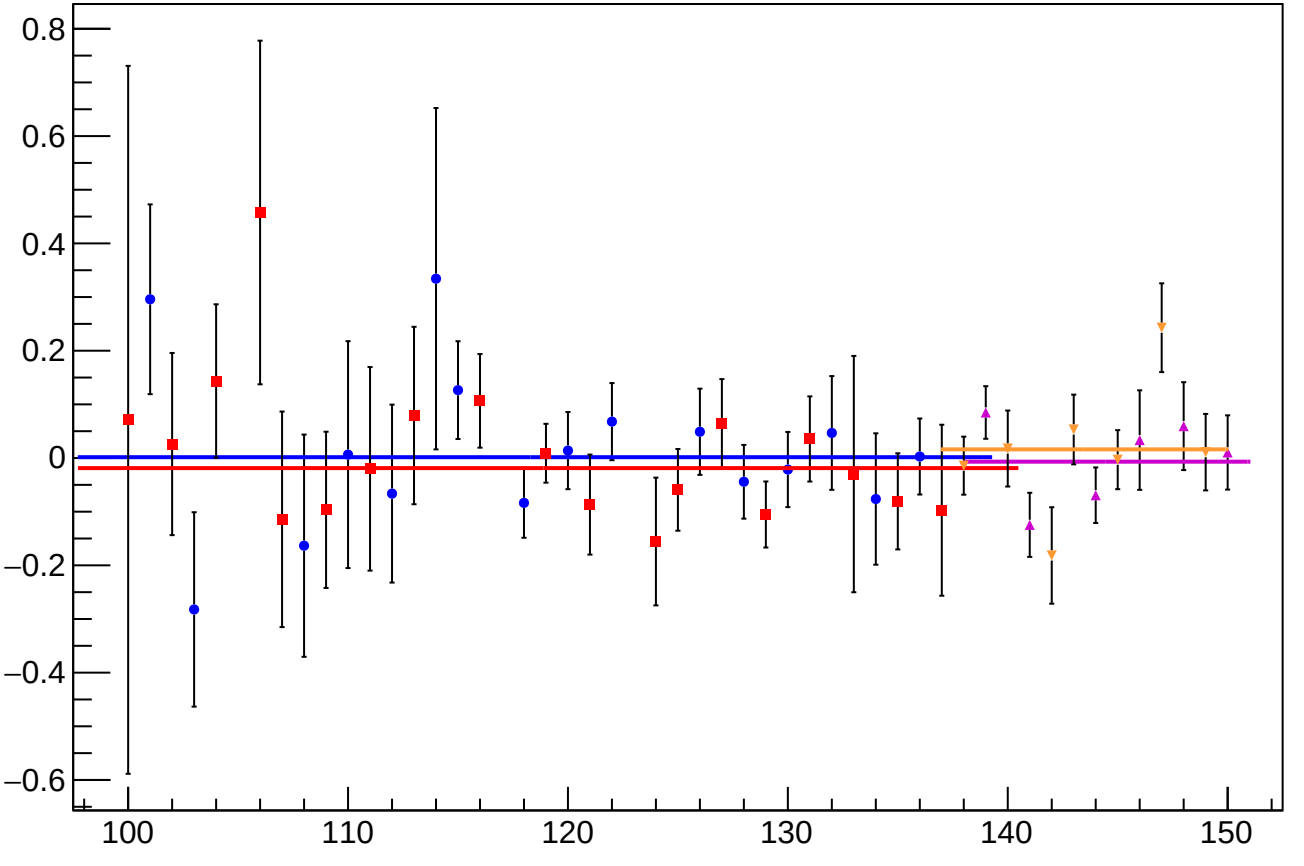
Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 55.828+/-0.012 $\chi^2$/NDF:2574578.5/21

Out: 56.642+/-0.012 $\chi^2$/NDF:2825795.0/25

All: 56.236+/-0.009 $\chi^2$/NDF: 5402607.1/47

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.016+/-0.025 $\chi^2$/NDF:13.1/6

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.007+/-0.025 $\chi^2$/NDF:9.7/5

Left: 0.005+/-0.018 $\chi^2$/NDF: 23.3/12

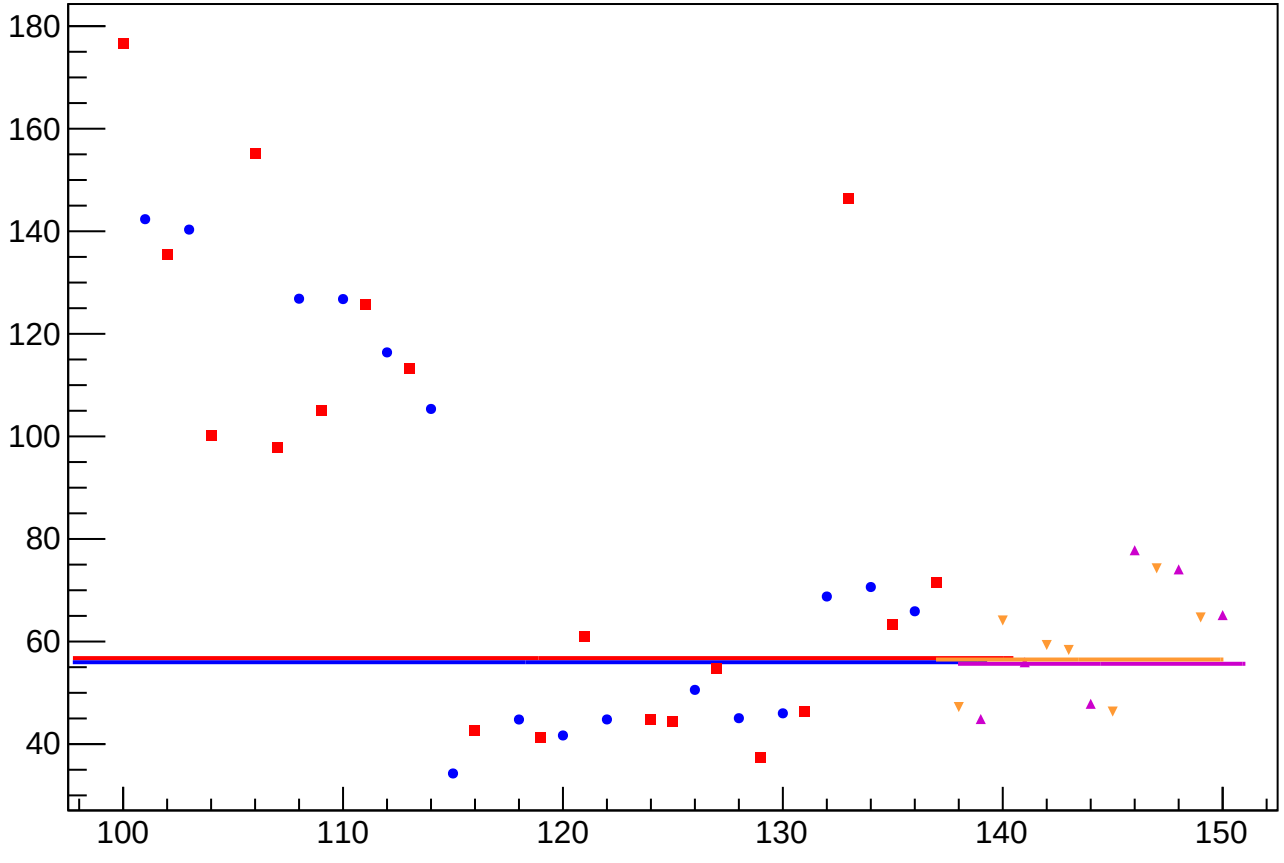
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.002+/-0.017 $\chi^2$/NDF:22.9/21

Out: -0.003+/-0.017 $\chi^2$/NDF:27.2/25

All: -0.002+/-0.012 $\chi^2$/NDF: 50.1/47

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179757.6/15

Left Out: 56.494+/-0.018 $\chi^2$/NDF:272498.9/6

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 55.663+/-0.018 $\chi^2$/NDF:394665.2/5

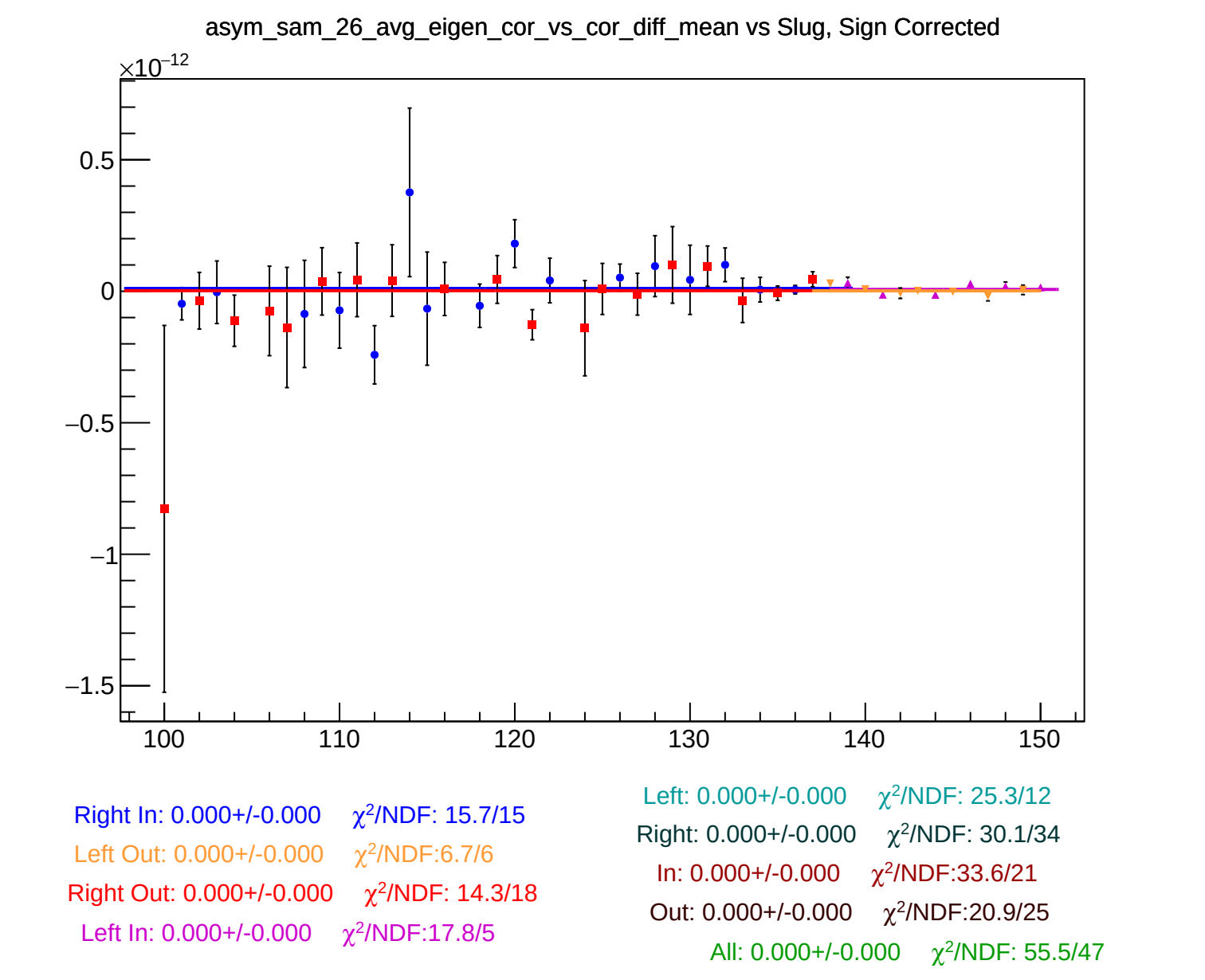
Left: 56.083+/-0.013 $\chi^2$/NDF: 668242.3/12

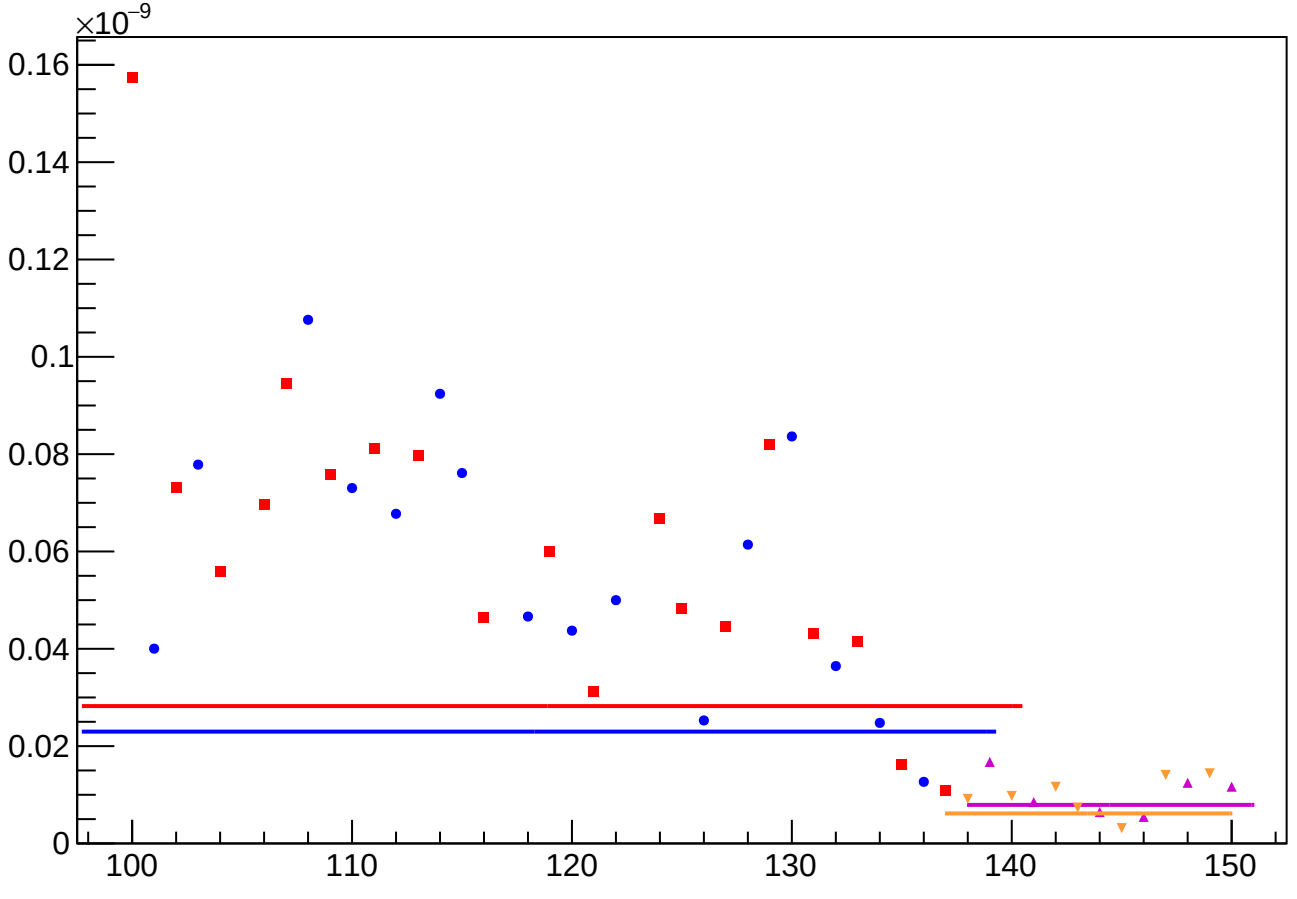
Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 55.828+/-0.012 $\chi^2$/NDF:2574578.5/21

Out: 56.642+/-0.012 $\chi^2$/NDF:2825795.0/25

All: 56.236+/-0.009 $\chi^2$/NDF: 5402607.1/47


asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.5
0
−0.5
−1
−1.5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 15.7/15
Left Out: 0.000+/-0.000 χ²/NDF:6.7/6
Right Out: 0.000+/-0.000 χ²/NDF: 14.3/18
Left In: 0.000+/-0.000 χ²/NDF:17.8/5
Left: 0.000+/-0.000 χ²/NDF: 25.3/12
Right: 0.000+/-0.000 χ²/NDF: 30.1/34
In: 0.000+/-0.000 χ²/NDF:33.6/21
Out: 0.000+/-0.000 χ²/NDF:20.9/25
All: 0.000+/-0.000 χ²/NDF: 55.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3731982.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1960438.6/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3820523.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:843915.8/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 2976248.4/12

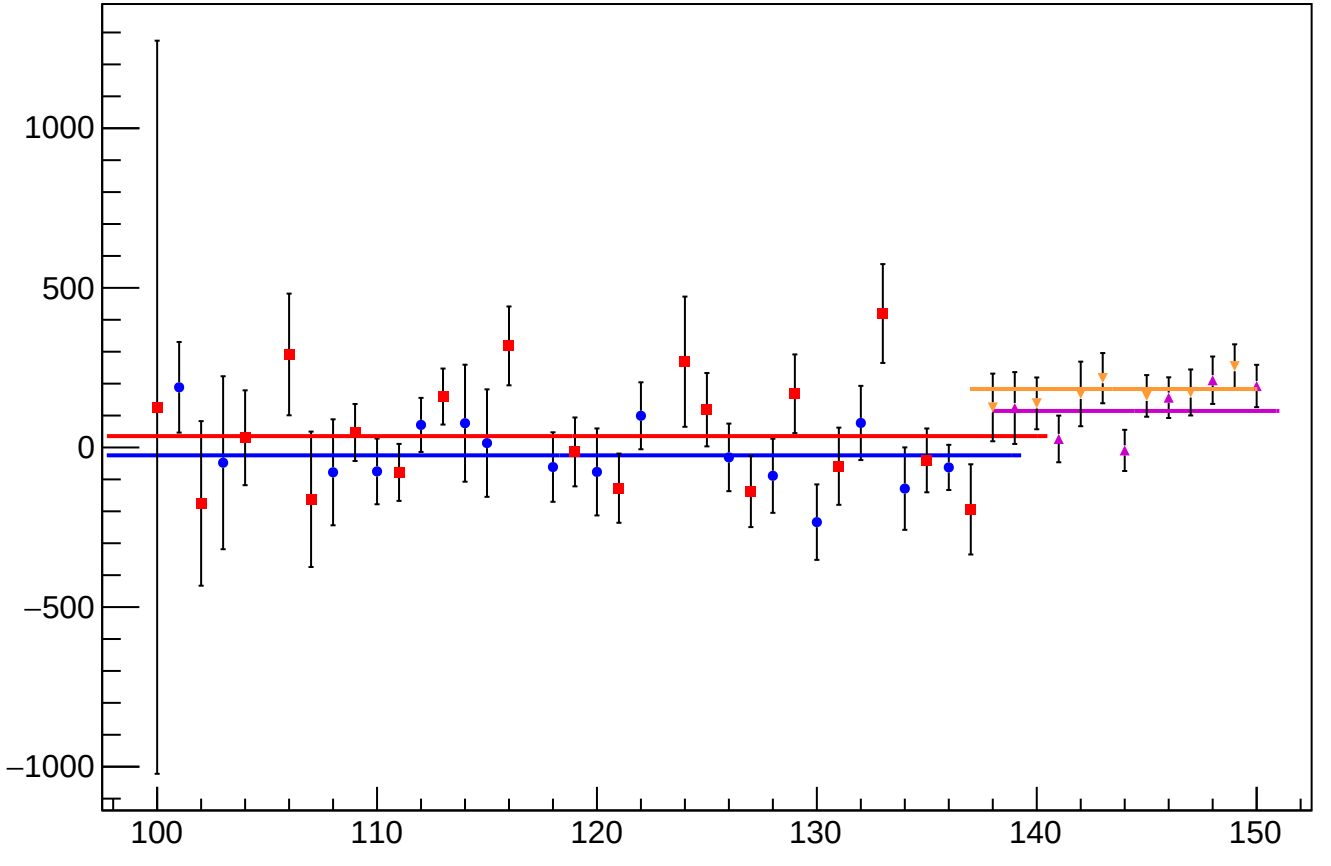
Right: 0.000+/-0.000 $\chi^2$/NDF: 7687404.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:6969937.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:9600641.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 16867272.6/47

# reg_asym_sam_37_avg_mean vs Slug, Sign Corrected




Right In: -24.632+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 183.161+/-29.606 $\chi^2$/NDF:2.0/6

Right Out: 35.582+/-28.454 $\chi^2$/NDF: 30.1/18

Left In: 114.431+/-29.345 $\chi^2$/NDF:8.6/5

Left: 148.491+/-20.842 $\chi^2$/NDF: 13.4/12

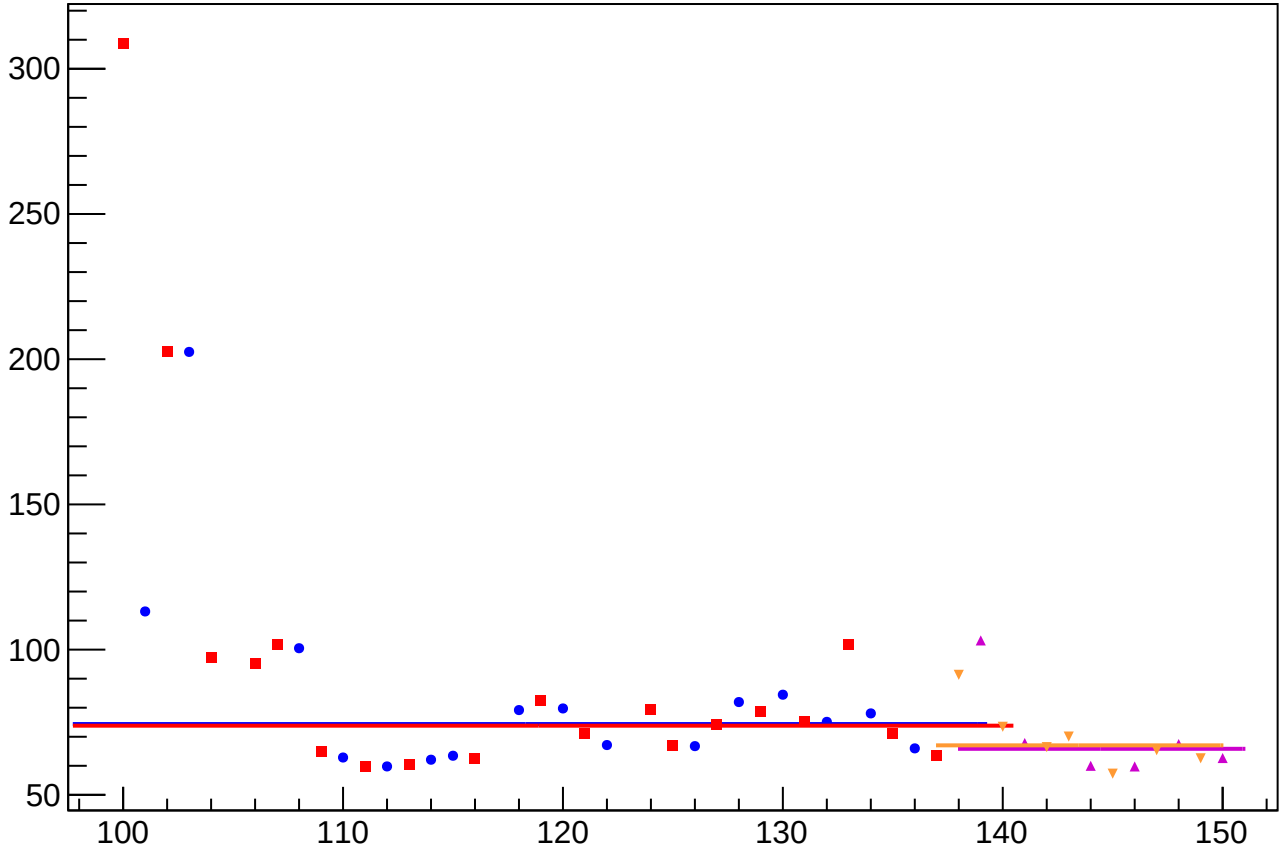
Right: 5.956+/-20.280 $\chi^2$/NDF: 43.3/34

In: 43.868+/-20.595 $\chi^2$/NDF:31.0/21

Out: 106.444+/-20.515 $\chi^2$/NDF:45.0/25

All: 75.278+/-14.535 $\chi^2$/NDF: 80.7/47

# reg_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827583.1/15

Left Out: 67.040+/-0.021 $\chi^2$/NDF:174747.1/6

Right Out: 73.815+/-0.020 $\chi^2$/NDF: 931949.0/18

Left In: 65.847+/-0.021 $\chi^2$/NDF:261672.2/5

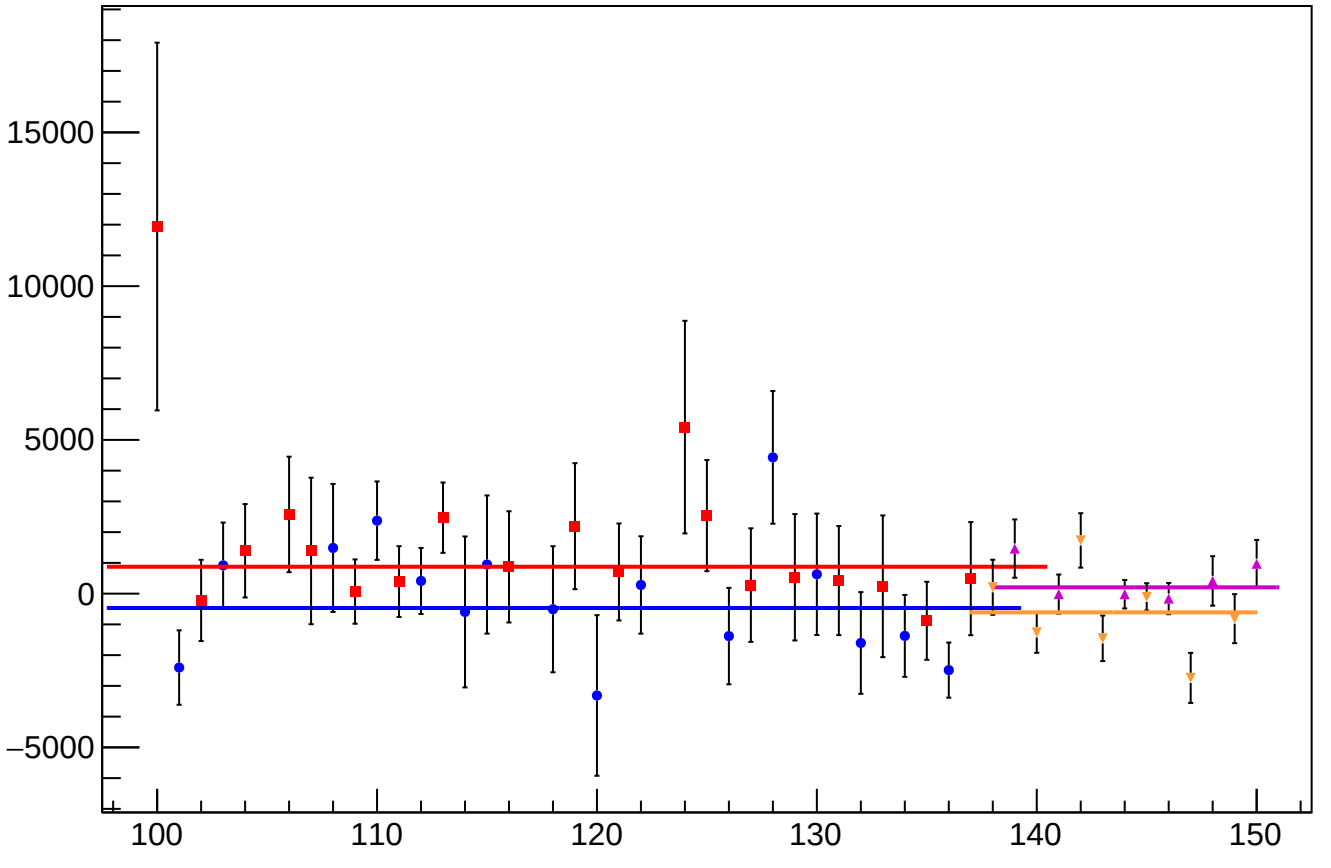
Left: 66.438+/-0.015 $\chi^2$/NDF: 438056.0/12

Right: 74.088+/-0.014 $\chi^2$/NDF: 1759905.2/34

In: 70.171+/-0.015 $\chi^2$/NDF:1174842.3/21

Out: 70.562+/-0.015 $\chi^2$/NDF:1161145.1/25

All: 70.367+/-0.010 $\chi^2$/NDF: 2336348.1/47




Right In: -466.524+/-375.030 $\chi^2$/NDF: 23.7/15

Left Out: -608.971+/-260.110 $\chi^2$/NDF:18.3/6

Right Out: 875.351+/-372.239 $\chi^2$/NDF: 13.1/18

Left In: 205.237+/-255.316 $\chi^2$/NDF:3.7/5

Left: -194.295+/-182.207 $\chi^2$/NDF: 27.0/12

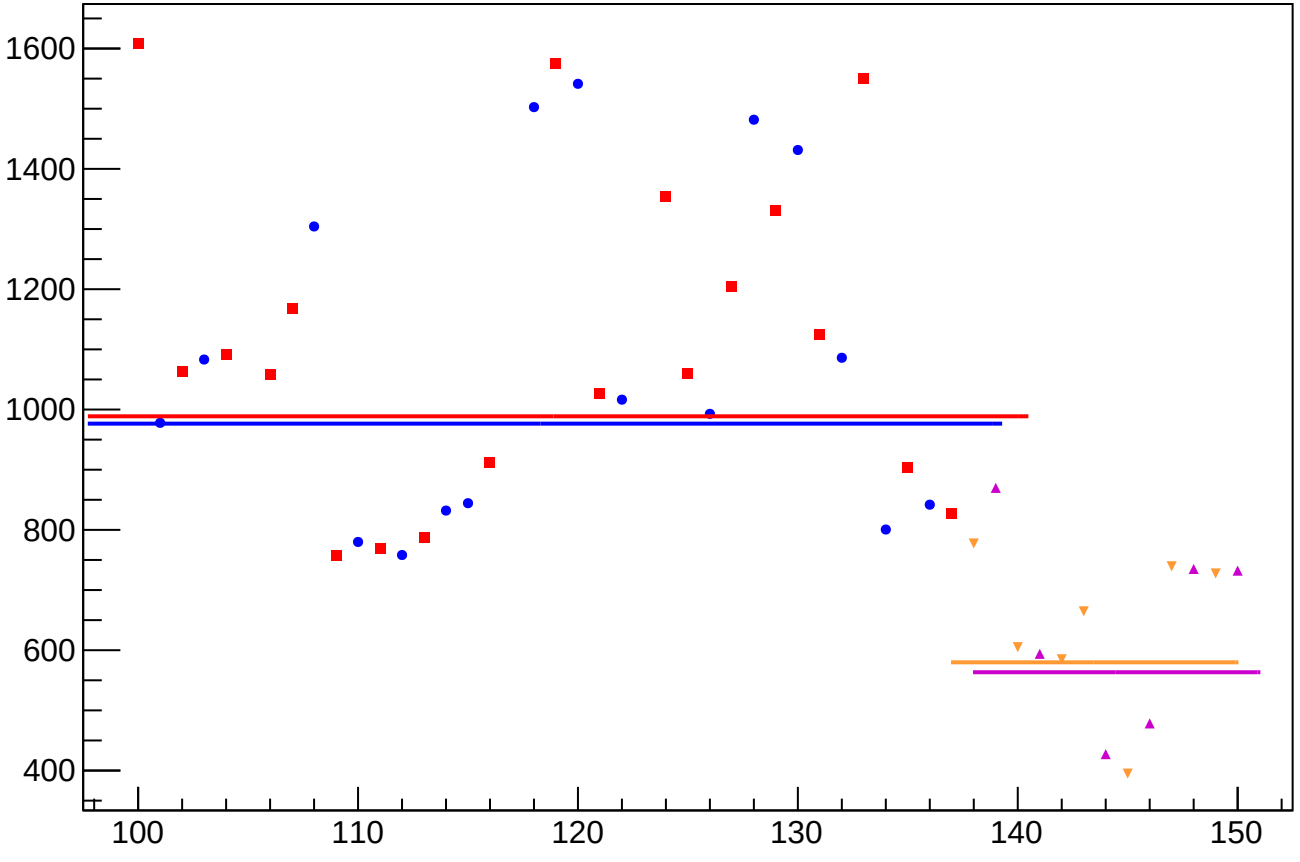
Right: 209.426+/-264.194 $\chi^2$/NDF: 43.2/34

In: -7.505+/-211.050 $\chi^2$/NDF:29.6/21

Out: -121.989+/-213.213 $\chi^2$/NDF:42.0/25

All: -64.163+/-149.994 $\chi^2$/NDF: 71.8/47

asym_sam_37_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 976.583+/-0.265 $\chi^2$/NDF: 736605.1/15

Left Out: 579.865+/-0.184 $\chi^2$/NDF:619321.1/6

Right Out: 988.763+/-0.263 $\chi^2$/NDF: 715703.4/18

Left In: 563.395+/-0.181 $\chi^2$/NDF:628837.0/5

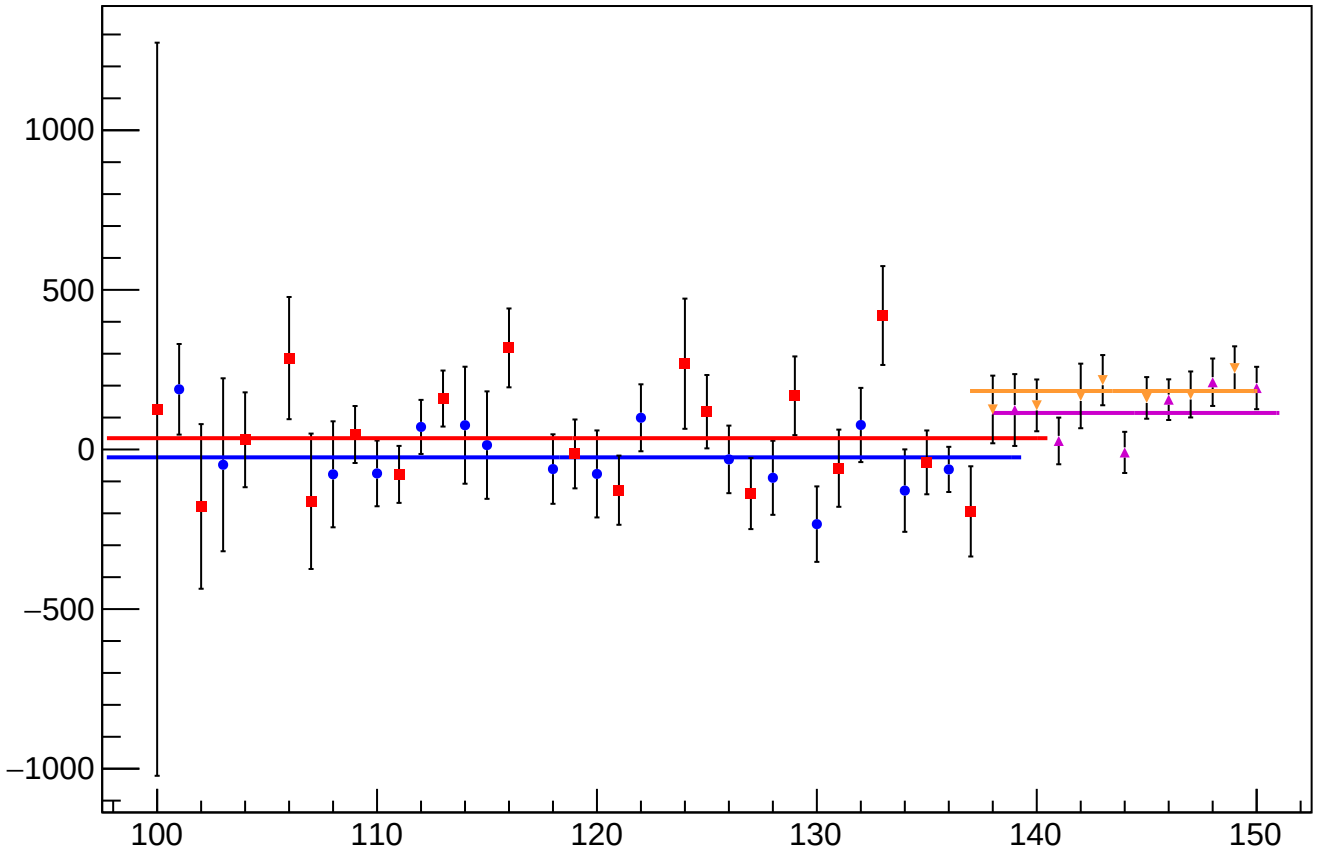
Left: 571.477+/-0.129 $\chi^2$/NDF: 1252242.0/12

Right: 982.718+/-0.187 $\chi^2$/NDF: 1453371.3/34

In: 694.249+/-0.149 $\chi^2$/NDF:3024294.0/21

Out: 714.018+/-0.151 $\chi^2$/NDF:2956580.6/25

All: 704.033+/-0.106 $\chi^2$/NDF: 5989559.2/47




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 183.167+/-29.606 $\chi^2$/NDF:2.0/6

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 114.430+/-29.345 $\chi^2$/NDF:8.6/5

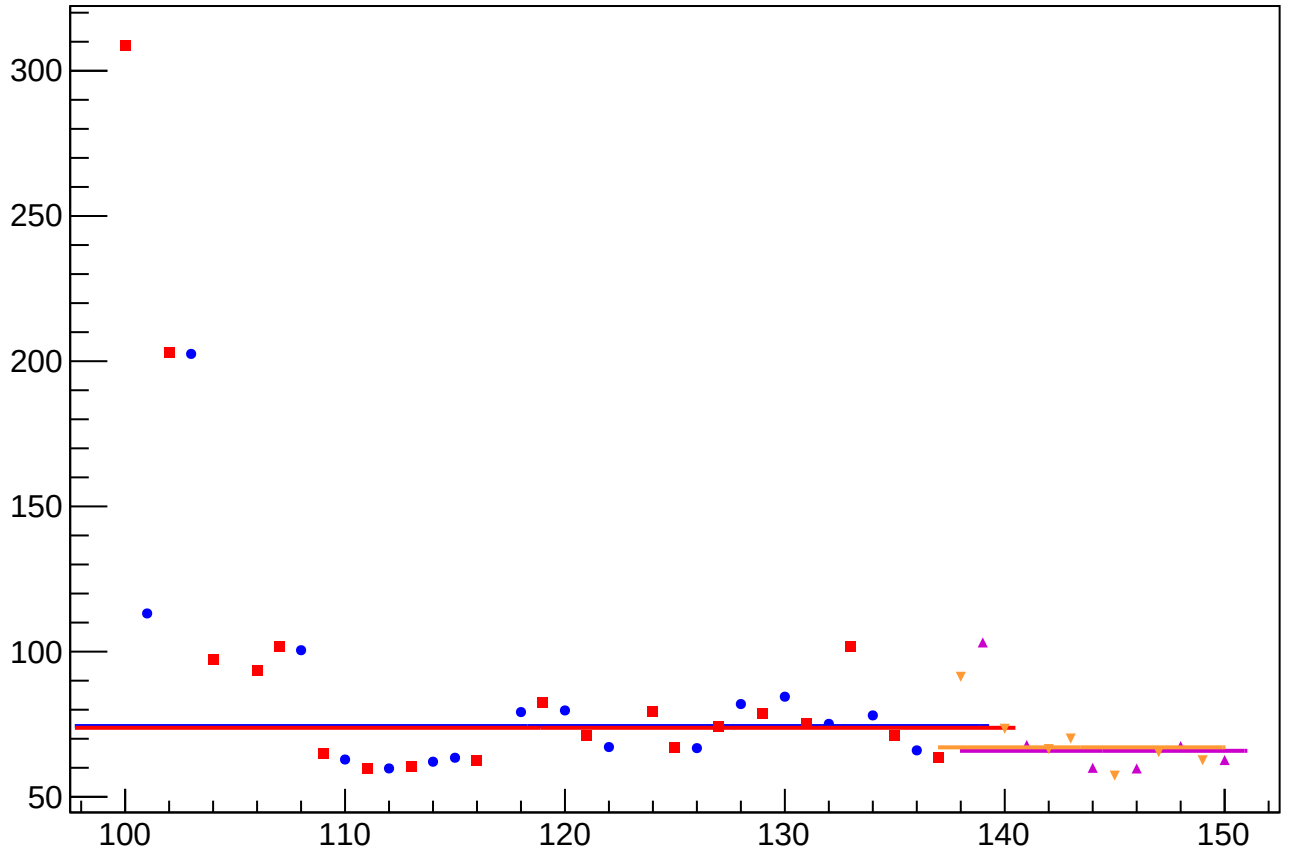
Left: 148.494+/-20.842 $\chi^2$/NDF: 13.4/12

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: 43.864+/-20.595 $\chi^2$/NDF:31.0/21

Out: 106.351+/-20.517 $\chi^2$/NDF:45.0/25

All: 75.227+/-14.535 $\chi^2$/NDF: 80.6/47




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 67.040+/-0.021 $\chi^2$/NDF:174747.1/6

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 65.847+/-0.021 $\chi^2$/NDF:261672.2/5

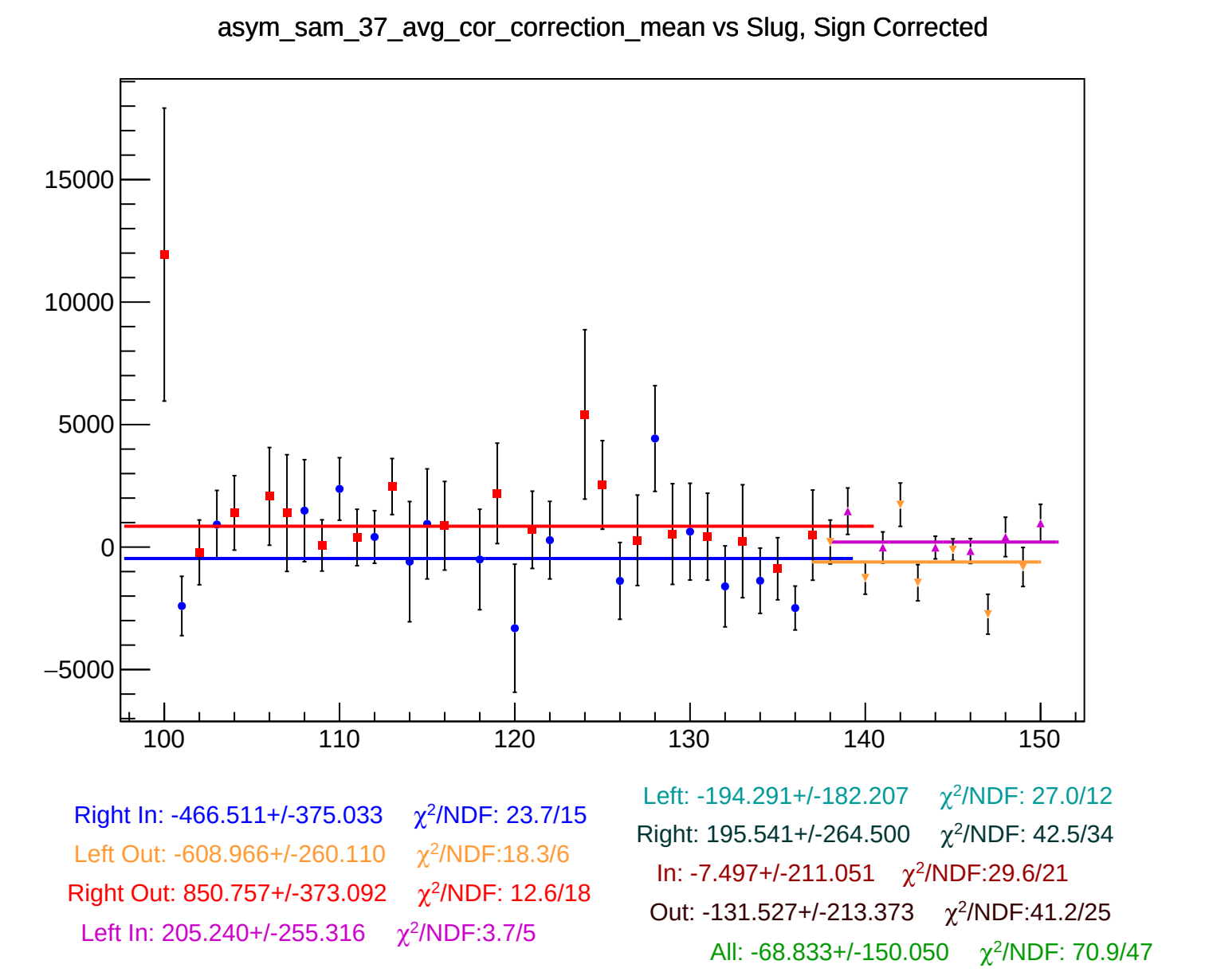
Left: 66.438+/-0.015 $\chi^2$/NDF: 438056.0/12

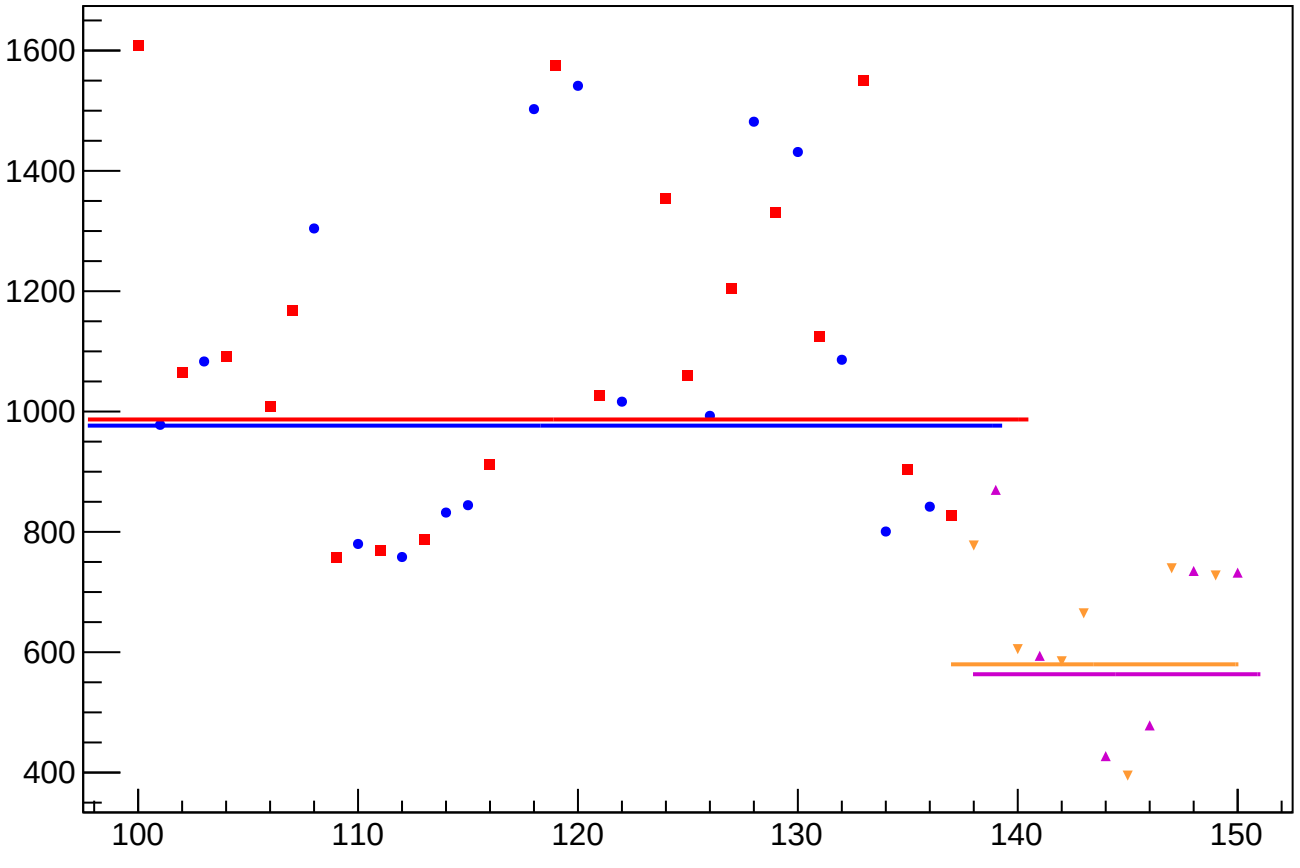
Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 70.171+/-0.015 $\chi^2$/NDF:1174844.3/21

Out: 70.540+/-0.015 $\chi^2$/NDF:1156684.0/25

All: 70.356+/-0.010 $\chi^2$/NDF: 2331849.3/47


asym_sam_37_avg_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
100
110
120
130
140
150
Right In: -466.511+/-375.033 χ²/NDF: 23.7/15
Left Out: -608.966+/-260.110 χ²/NDF:18.3/6
Right Out: 850.757+/-373.092 χ²/NDF: 12.6/18
Left In: 205.240+/-255.316 χ²/NDF:3.7/5
Left: -194.291+/-182.207 χ²/NDF: 27.0/12
Right: 195.541+/-264.500 χ²/NDF: 42.5/34
In: -7.497+/-211.051 χ²/NDF:29.6/21
Out: -131.527+/-213.373 χ²/NDF:41.2/25
All: -68.833+/-150.050 χ²/NDF: 70.9/47




Right In: 976.589+/-0.265 $\chi^2$/NDF: 736628.5/15

Left Out: 579.865+/-0.184 $\chi^2$/NDF:619320.0/6

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 563.395+/-0.181 $\chi^2$/NDF:628838.7/5

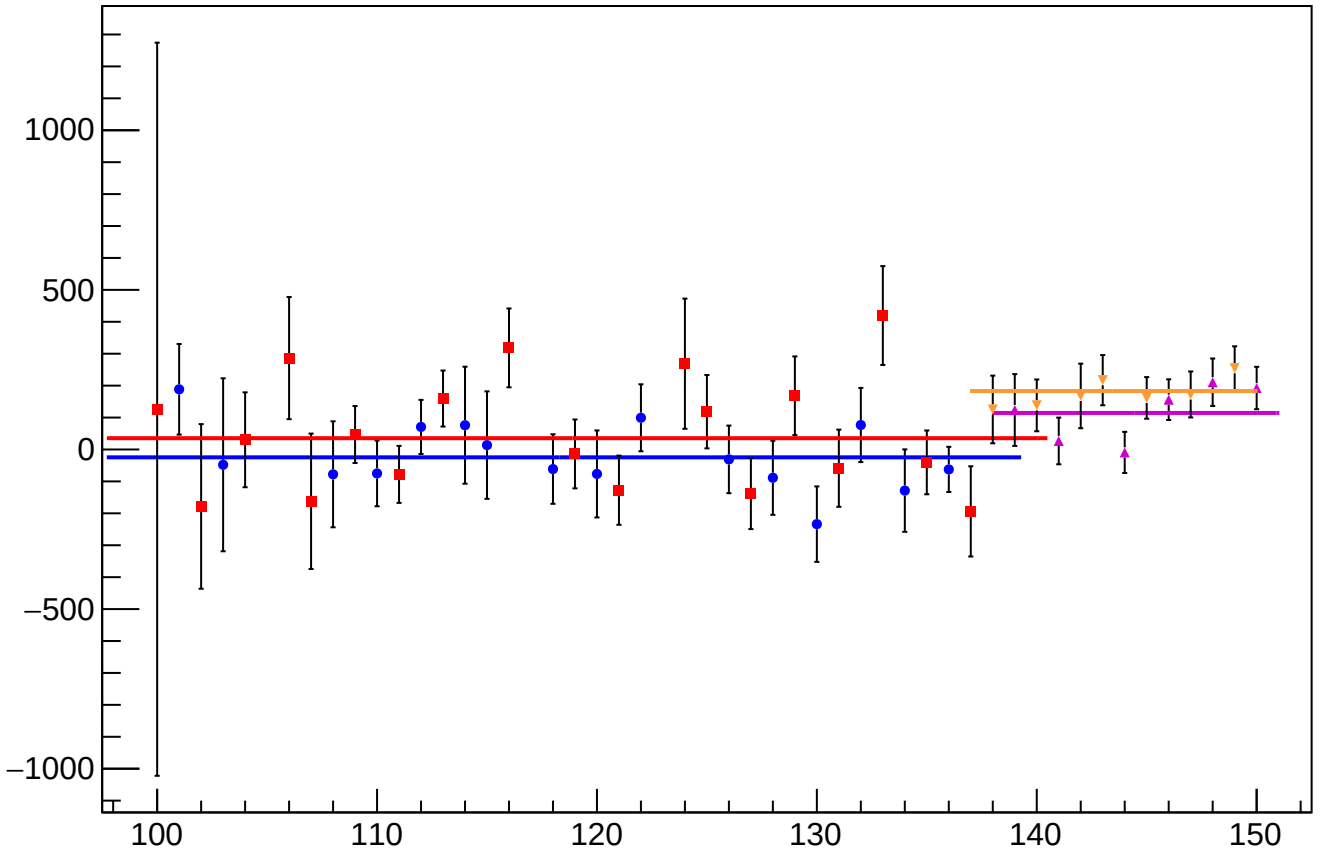
Left: 571.477+/-0.129 $\chi^2$/NDF: 1252242.6/12

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

In: 694.249+/-0.149 $\chi^2$/NDF:3024350.6/21

Out: 712.971+/-0.151 $\chi^2$/NDF:2933906.6/25

All: 703.508+/-0.106 $\chi^2$/NDF: 5966039.7/47




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 183.167+/-29.606 $\chi^2$/NDF:2.0/6

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 114.430+/-29.345 $\chi^2$/NDF:8.6/5

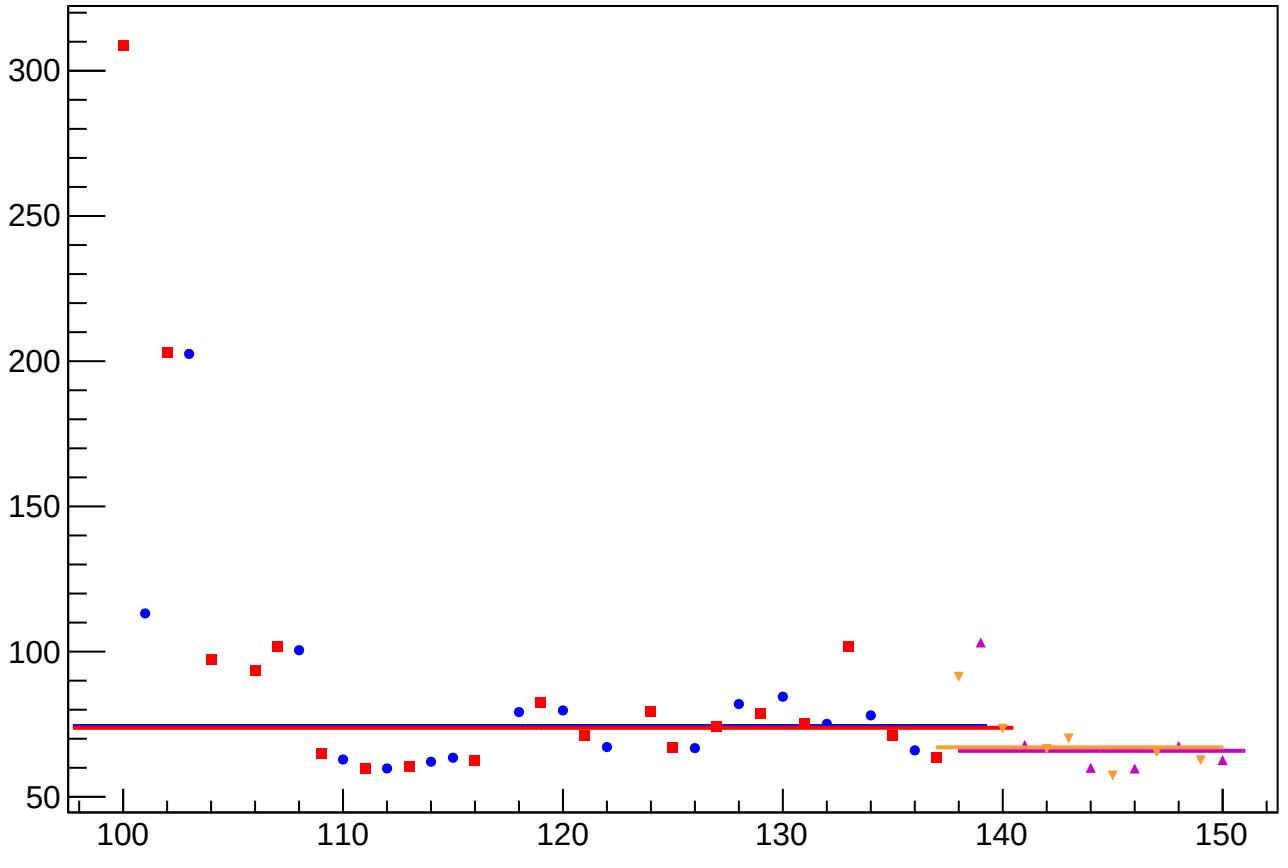
Left: 148.494+/-20.842 $\chi^2$/NDF: 13.4/12

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: 43.864+/-20.595 $\chi^2$/NDF:31.0/21

Out: 106.351+/-20.517 $\chi^2$/NDF:45.0/25

All: 75.227+/-14.535 $\chi^2$/NDF: 80.6/47




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 67.040+/-0.021 $\chi^2$/NDF:174747.1/6

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 65.847+/-0.021 $\chi^2$/NDF:261672.2/5

Left: 66.438+/-0.015 $\chi^2$/NDF: 438056.0/12

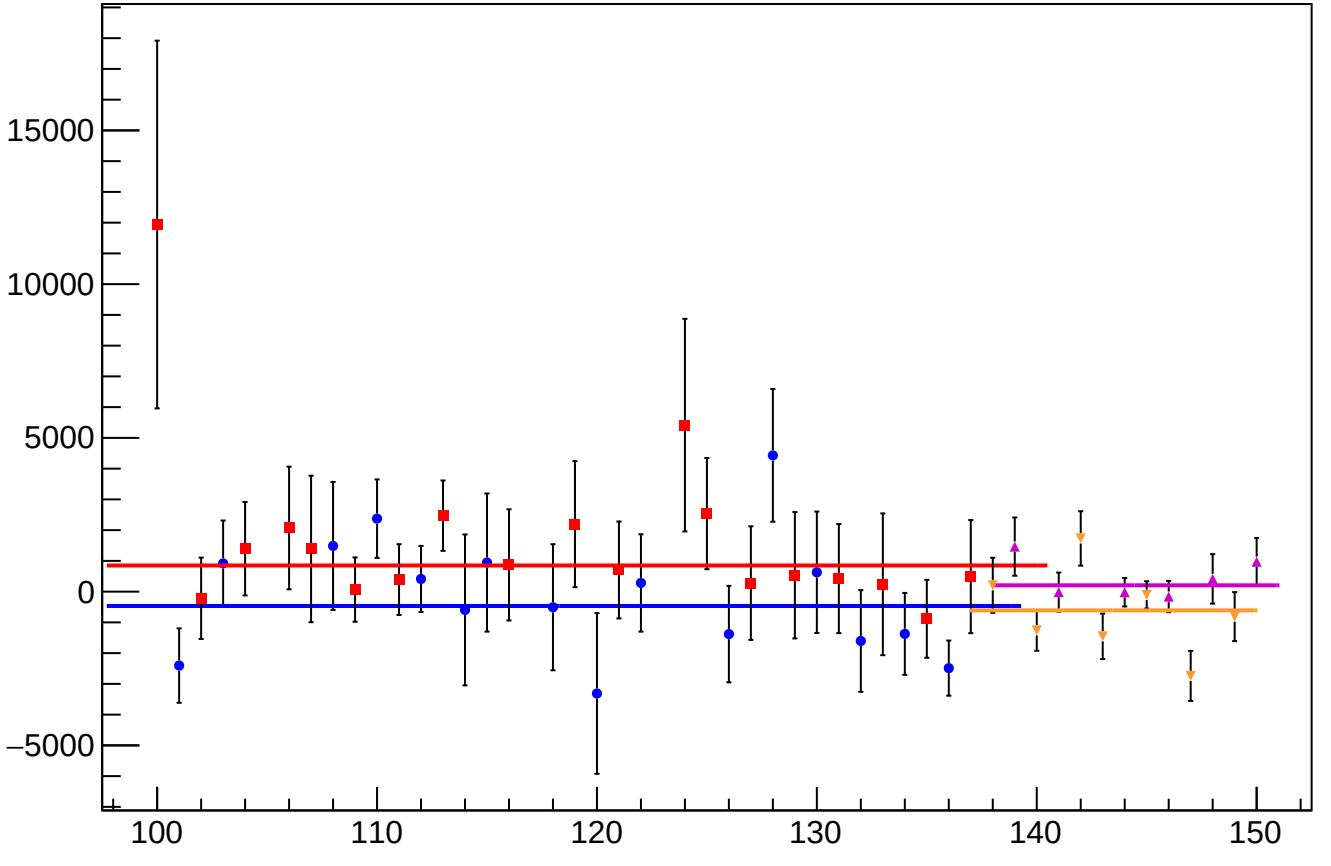
Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 70.171+/-0.015 $\chi^2$/NDF:1174844.3/21

Out: 70.540+/-0.015 $\chi^2$/NDF:1156684.0/25

All: 70.356+/-0.010 $\chi^2$/NDF: 2331849.3/47

asym_sam_37_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -466.511+/-375.033 $\chi^2$/NDF: 23.7/15

Left Out: -608.966+/-260.110 $\chi^2$/NDF:18.3/6

Right Out: 850.757+/-373.092 $\chi^2$/NDF: 12.6/18

Left In: 205.240+/-255.316 $\chi^2$/NDF:3.7/5

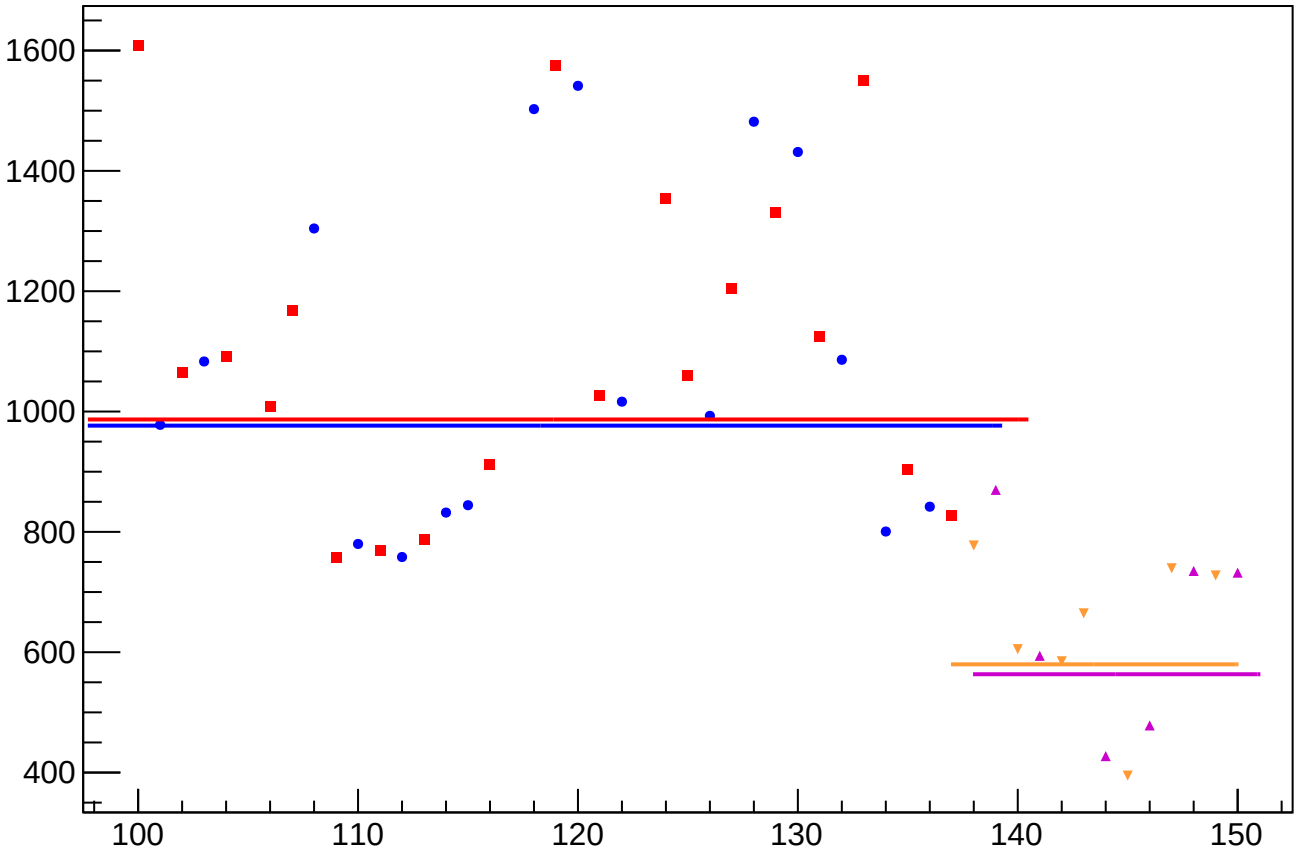
Left: -194.291+/-182.207 $\chi^2$/NDF: 27.0/12

Right: 195.541+/-264.500 $\chi^2$/NDF: 42.5/34

In: -7.497+/-211.051 $\chi^2$/NDF:29.6/21

Out: -131.527+/-213.373 $\chi^2$/NDF:41.2/25

All: -68.833+/-150.050 $\chi^2$/NDF: 70.9/47




Right In: 976.589+/-0.265 $\chi^2$/NDF: 736628.5/15

Left Out: 579.865+/-0.184 $\chi^2$/NDF:619320.0/6

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 563.395+/-0.181 $\chi^2$/NDF:628838.7/5

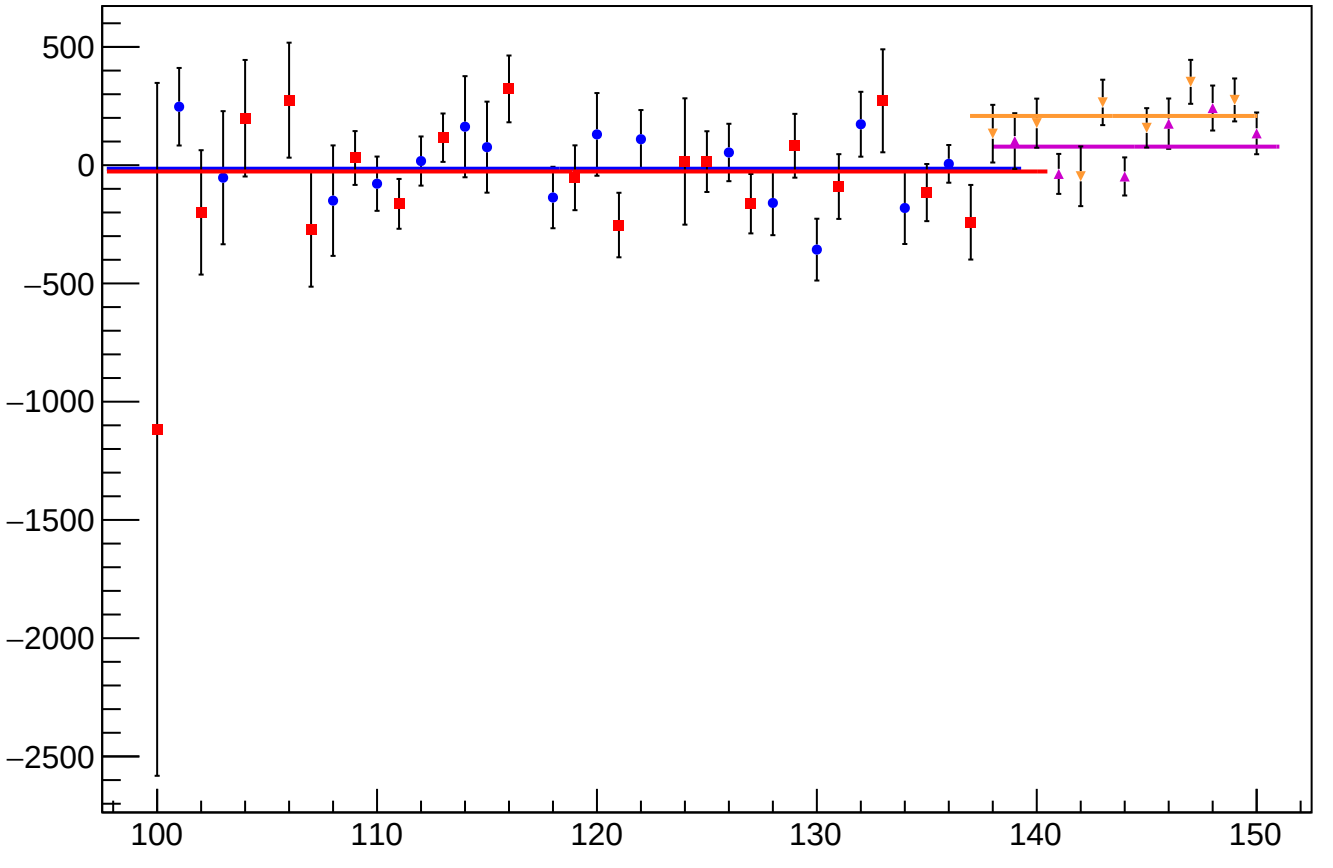
Left: 571.477+/-0.129 $\chi^2$/NDF: 1252242.6/12

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

In: 694.249+/-0.149 $\chi^2$/NDF:3024350.6/21

Out: 712.971+/-0.151 $\chi^2$/NDF:2933906.6/25

All: 703.508+/-0.106 $\chi^2$/NDF: 5966039.7/47




Right In: -14.953+/-33.761 $\chi^2$/NDF: 18.3/15

Left Out: 208.164+/-37.451 $\chi^2$/NDF:8.2/6

Right Out: -26.654+/-34.073 $\chi^2$/NDF: 23.6/18

Left In: 78.380+/-37.983 $\chi^2$/NDF:8.5/5

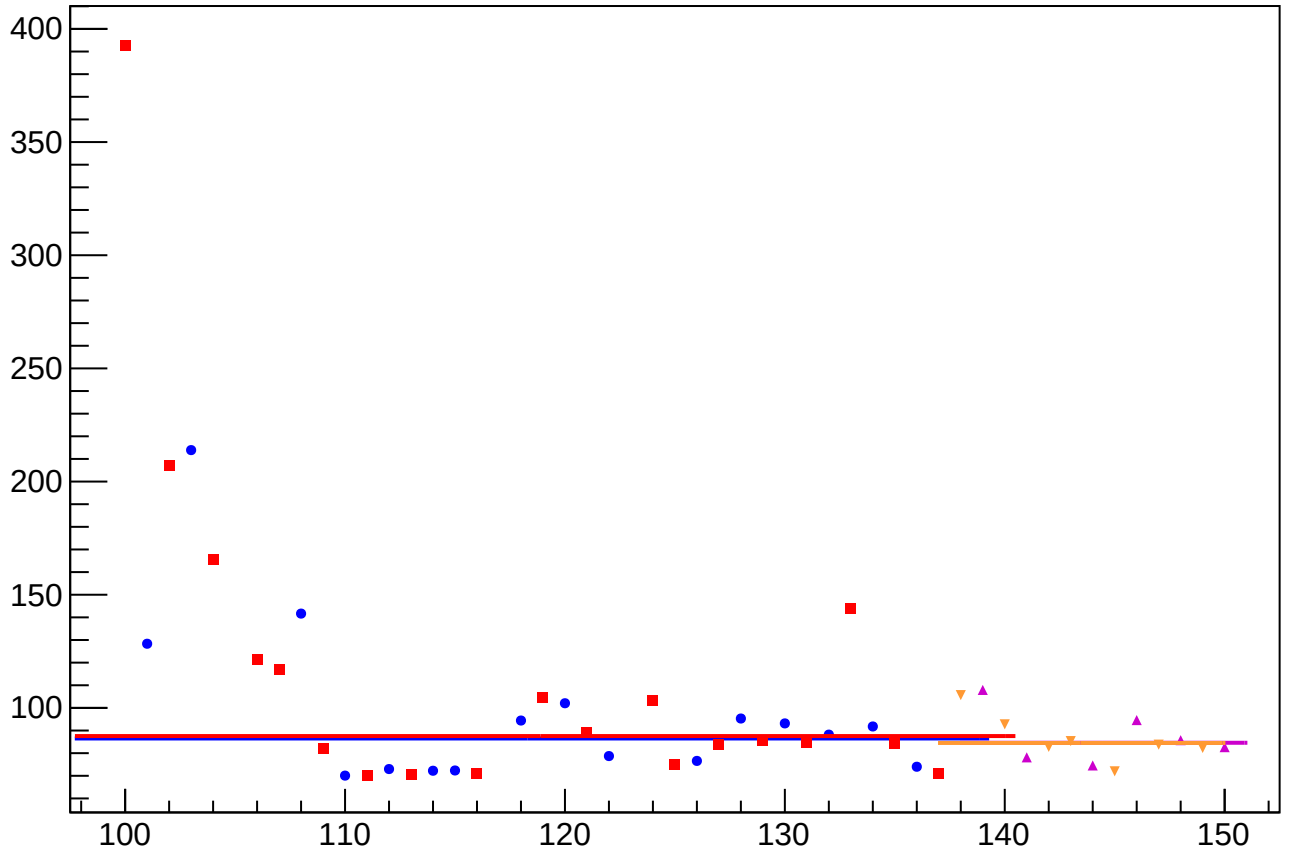
Left: 144.187+/-26.668 $\chi^2$/NDF: 22.7/12

Right: -20.750+/-23.982 $\chi^2$/NDF: 41.9/34

In: 26.240+/-25.234 $\chi^2$/NDF:30.2/21

Out: 79.689+/-25.203 $\chi^2$/NDF:53.4/25

All: 52.997+/-17.832 $\chi^2$/NDF: 85.8/47




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856257.9/15

Left Out: 84.510+/-0.026 $\chi^2$/NDF:119886.5/6

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129794.0/18

Left In: 84.593+/-0.027 $\chi^2$/NDF:140049.9/5

Left: 84.551+/-0.019 $\chi^2$/NDF: 259941.1/12

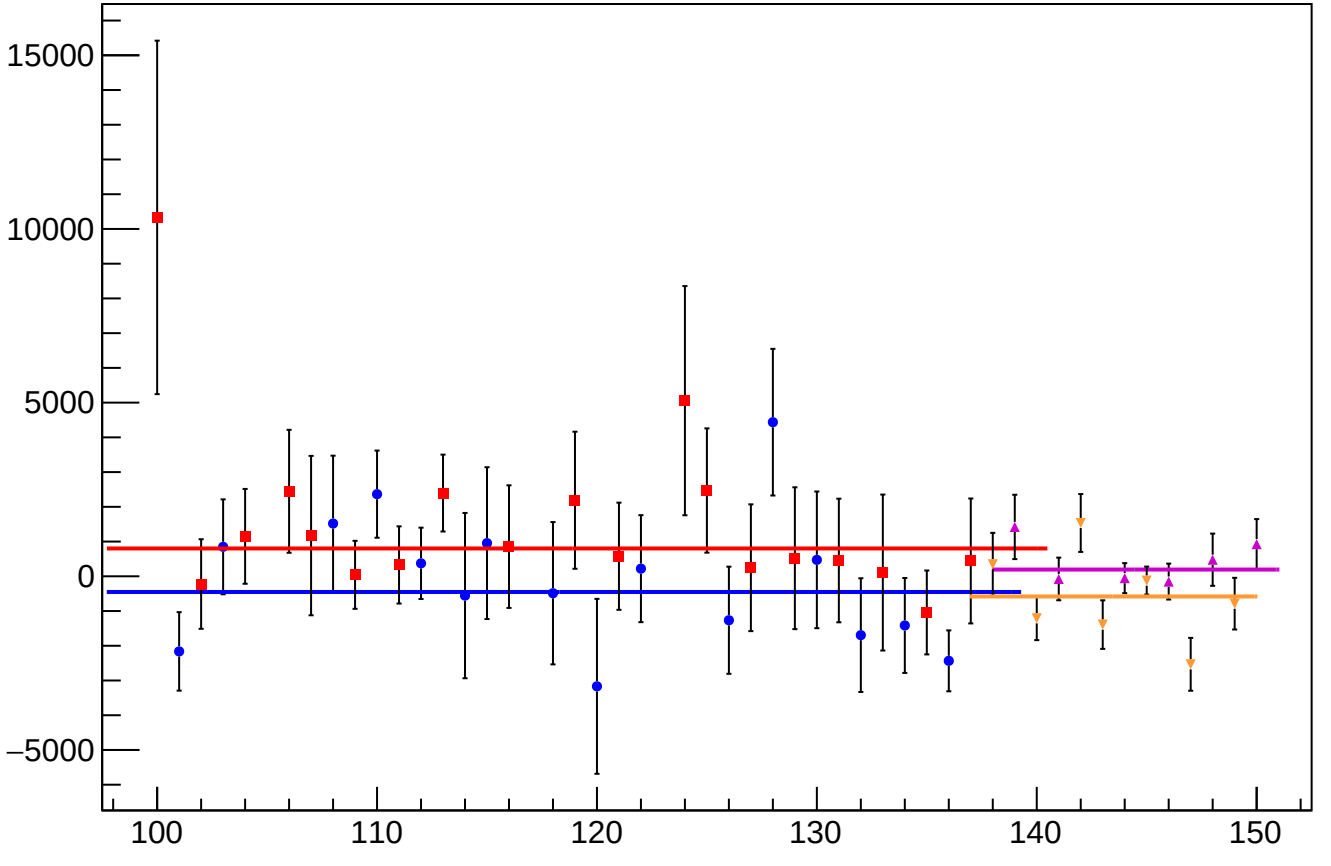
Right: 87.017+/-0.017 $\chi^2$/NDF: 1987038.9/34

In: 85.652+/-0.018 $\chi^2$/NDF:999092.5/21

Out: 86.176+/-0.018 $\chi^2$/NDF:1256910.5/25

All: 85.914+/-0.013 $\chi^2$/NDF: 2256434.6/47

asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -451.380+/-365.605 $\chi^2$/NDF: 23.7/15

Left Out: -580.800+/-243.044 $\chi^2$/NDF:17.8/6

Right Out: 801.206+/-357.866 $\chi^2$/NDF: 13.6/18

Left In: 194.318+/-245.484 $\chi^2$/NDF:3.9/5

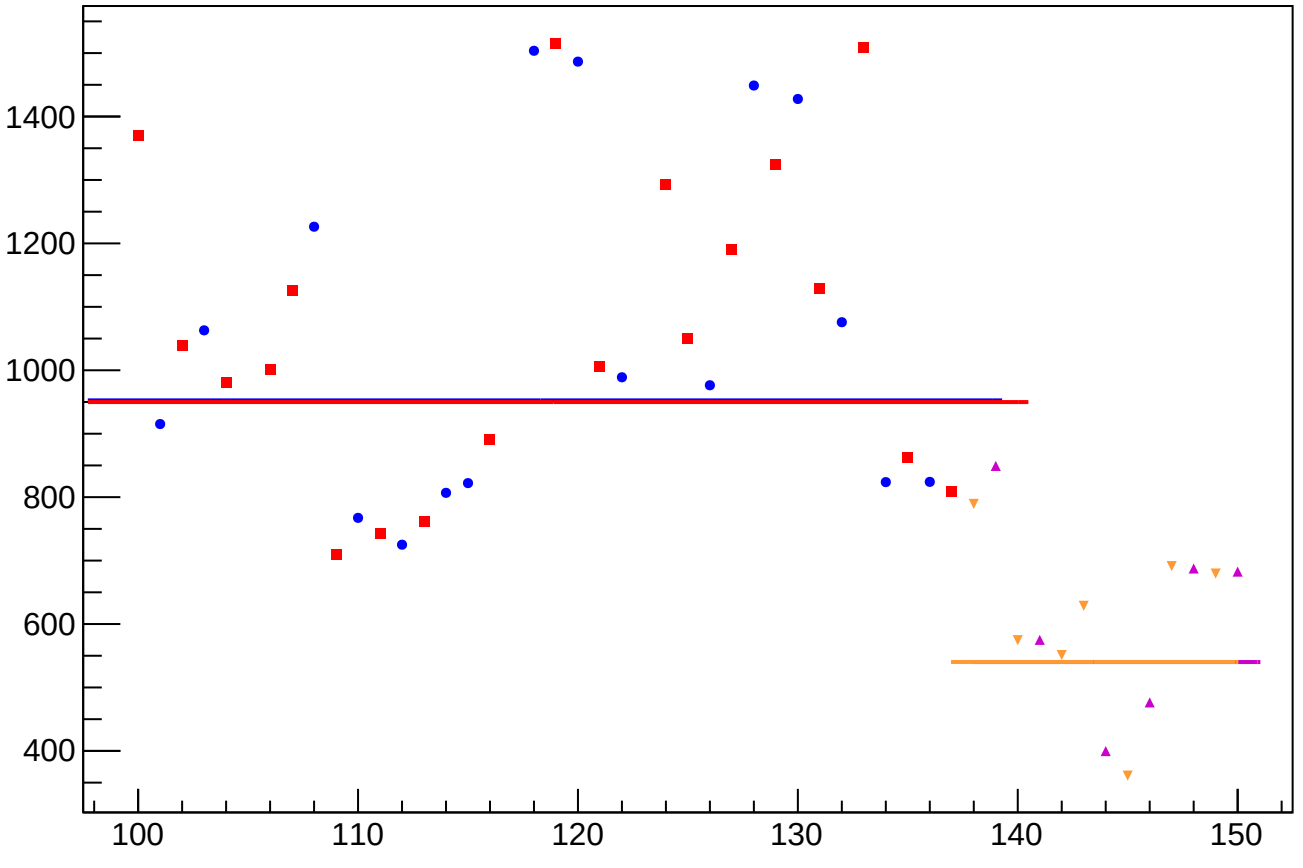
Left: -197.112+/-172.714 $\chi^2$/NDF: 26.7/12

Right: 188.311+/-255.742 $\chi^2$/NDF: 43.3/34

In: -6.328+/-203.804 $\chi^2$/NDF:29.8/21

Out: -144.569+/-201.059 $\chi^2$/NDF:41.6/25

All: -76.386+/-143.131 $\chi^2$/NDF: 71.6/47




Right In: 952.551+/-0.259 $\chi^2$/NDF: 746346.9/15

Left Out: 540.197+/-0.172 $\chi^2$/NDF:734391.9/6

Right Out: 949.891+/-0.253 $\chi^2$/NDF: 751675.2/18

Left In: 540.098+/-0.174 $\chi^2$/NDF:625215.1/5

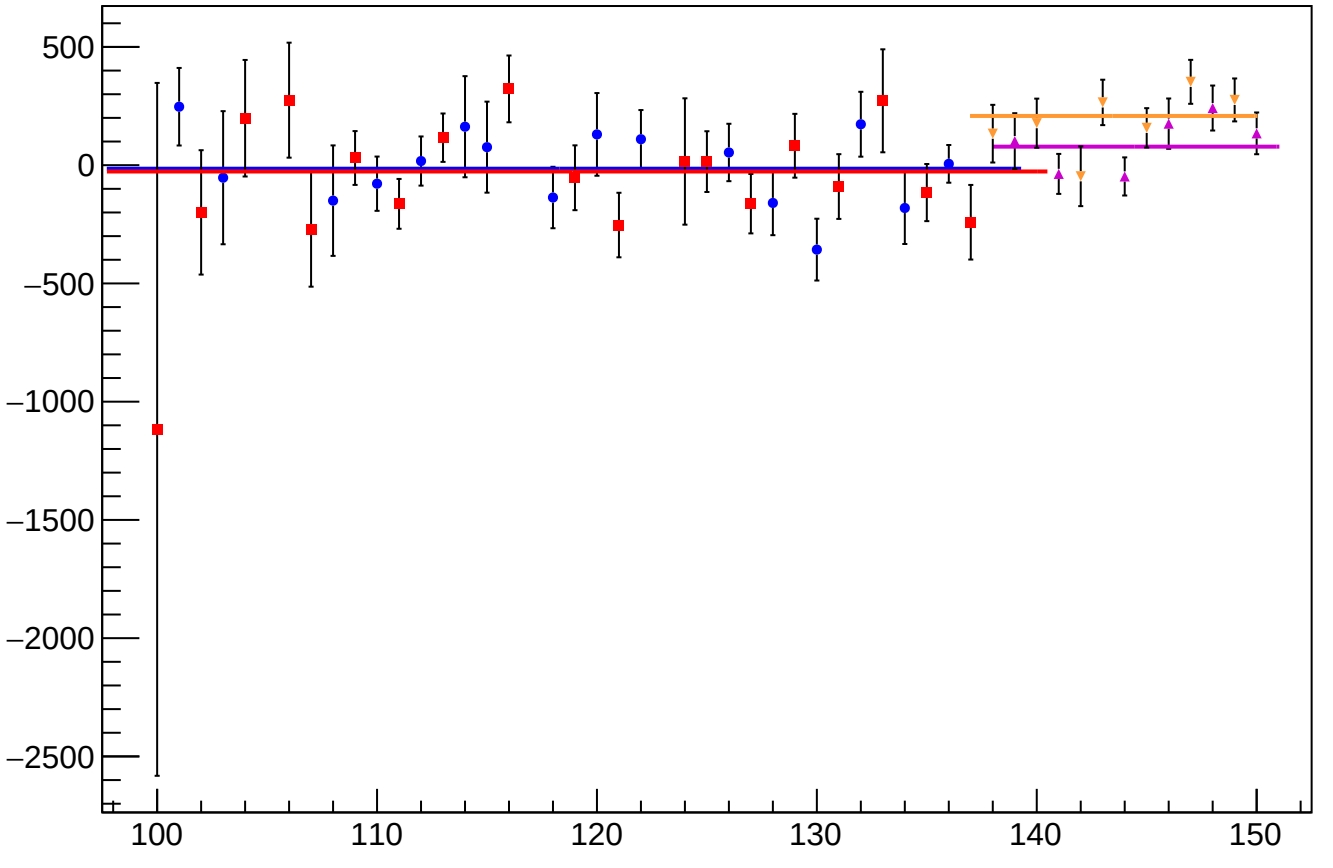
Left: 540.148+/-0.122 $\chi^2$/NDF: 1359607.1/12

Right: 951.193+/-0.181 $\chi^2$/NDF: 1498076.1/34

In: 668.265+/-0.144 $\chi^2$/NDF:3125982.2/21

Out: 669.517+/-0.142 $\chi^2$/NDF:3279921.6/25

All: 668.900+/-0.101 $\chi^2$/NDF: 6405942.1/47




Right In: -14.954+/-33.761 $\chi^2$/NDF: 18.3/15

Left Out: 208.163+/-37.451 $\chi^2$/NDF:8.2/6

Right Out: -26.658+/-34.073 $\chi^2$/NDF: 23.6/18

Left In: 78.380+/-37.983 $\chi^2$/NDF:8.5/5

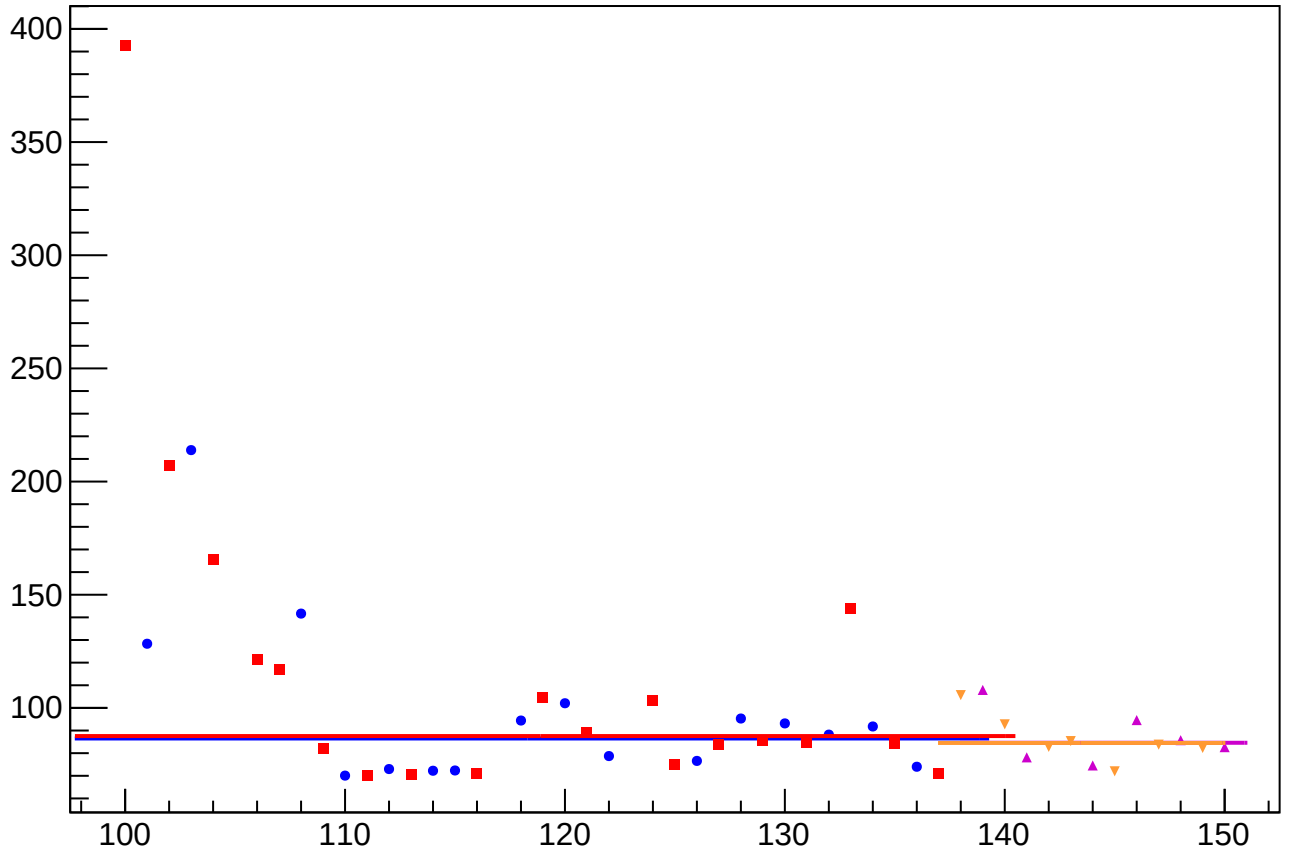
Left: 144.186+/-26.668 $\chi^2$/NDF: 22.7/12

Right: -20.752+/-23.982 $\chi^2$/NDF: 41.9/34

In: 26.240+/-25.234 $\chi^2$/NDF:30.2/21

Out: 79.687+/-25.203 $\chi^2$/NDF:53.4/25

All: 52.996+/-17.832 $\chi^2$/NDF: 85.8/47




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856249.6/15

Left Out: 84.511+/-0.026 $\chi^2$/NDF:119884.9/6

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129791.7/18

Left In: 84.593+/-0.027 $\chi^2$/NDF:140048.0/5

Left: 84.551+/-0.019 $\chi^2$/NDF: 259937.6/12

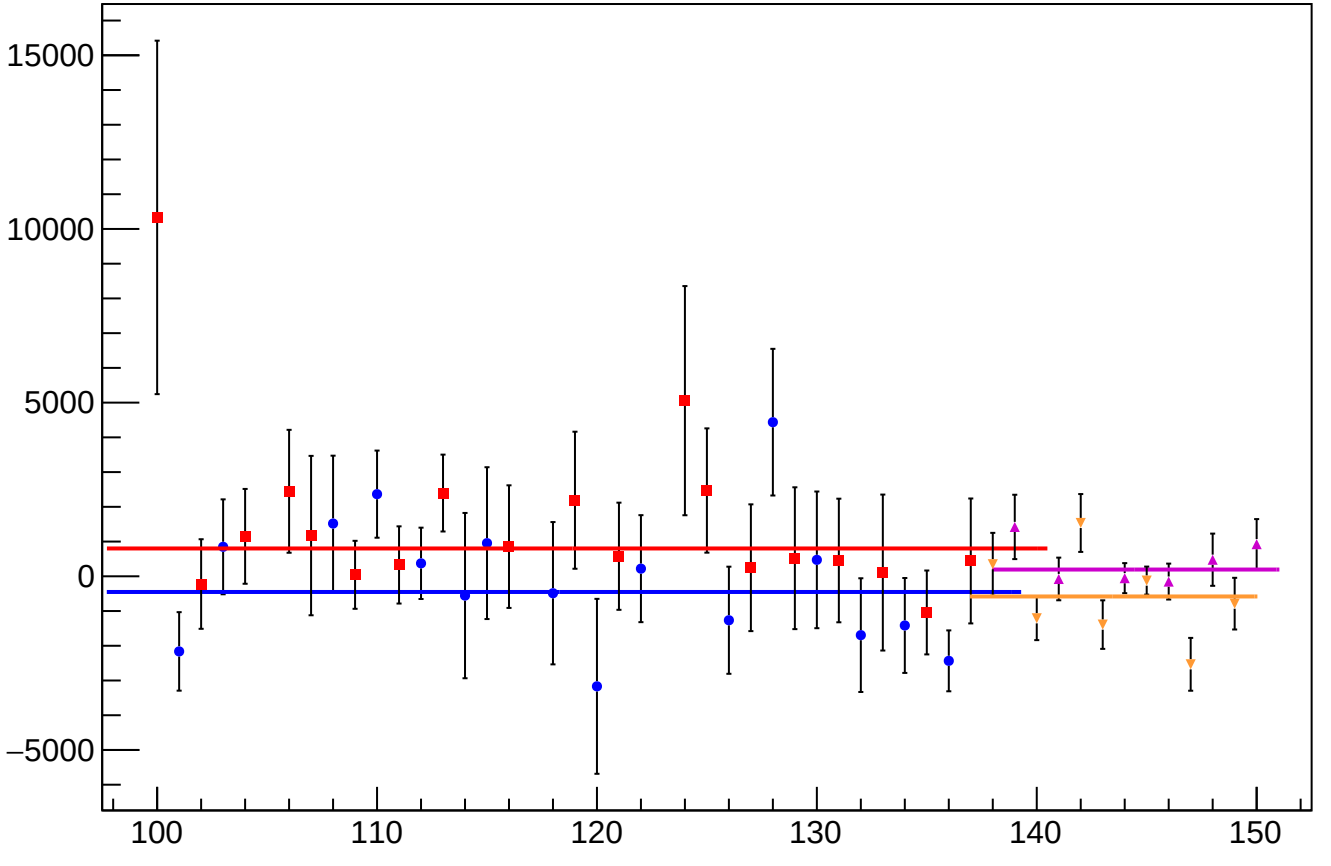
Right: 87.017+/-0.017 $\chi^2$/NDF: 1987028.5/34

In: 85.652+/-0.018 $\chi^2$/NDF:999082.7/21

Out: 86.176+/-0.018 $\chi^2$/NDF:1256907.1/25

All: 85.915+/-0.013 $\chi^2$/NDF: 2256421.5/47

asym_sam_37_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -451.378+/-365.605 $\chi^2$/NDF: 23.7/15

Left Out: -580.803+/-243.044 $\chi^2$/NDF:17.8/6

Right Out: 801.205+/-357.865 $\chi^2$/NDF: 13.6/18

Left In: 194.318+/-245.484 $\chi^2$/NDF:3.9/5

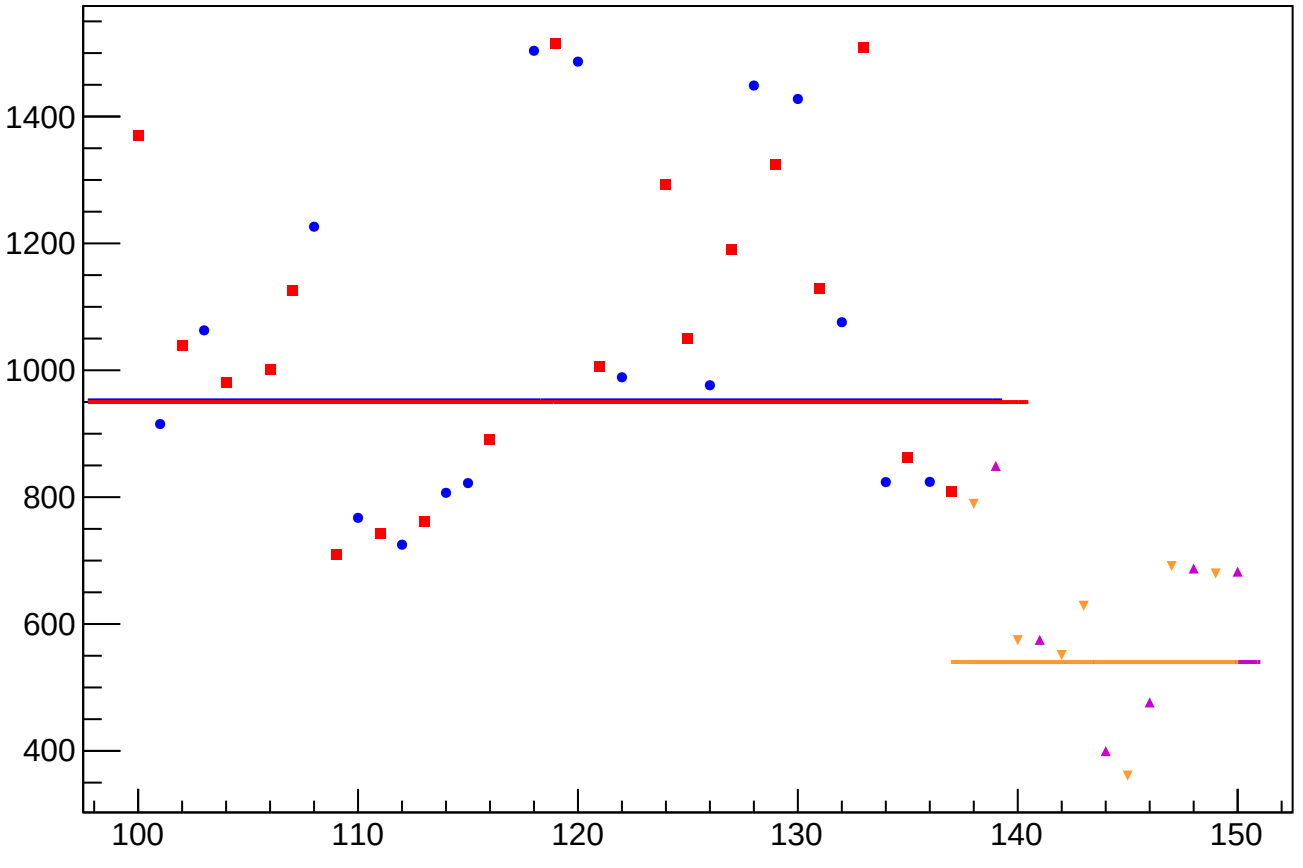
Left: -197.114+/-172.714 $\chi^2$/NDF: 26.7/12

Right: 188.312+/-255.741 $\chi^2$/NDF: 43.3/34

In: -6.328+/-203.804 $\chi^2$/NDF:29.8/21

Out: -144.570+/-201.059 $\chi^2$/NDF:41.6/25

All: -76.387+/-143.131 $\chi^2$/NDF: 71.6/47




Right In: 952.549+/-0.259 $\chi^2$/NDF: 746349.8/15

Left Out: 540.197+/-0.172 $\chi^2$/NDF:734394.7/6

Right Out: 949.890+/-0.253 $\chi^2$/NDF: 751674.5/18

Left In: 540.098+/-0.174 $\chi^2$/NDF:625217.4/5

Left: 540.148+/-0.122 $\chi^2$/NDF: 1359612.3/12

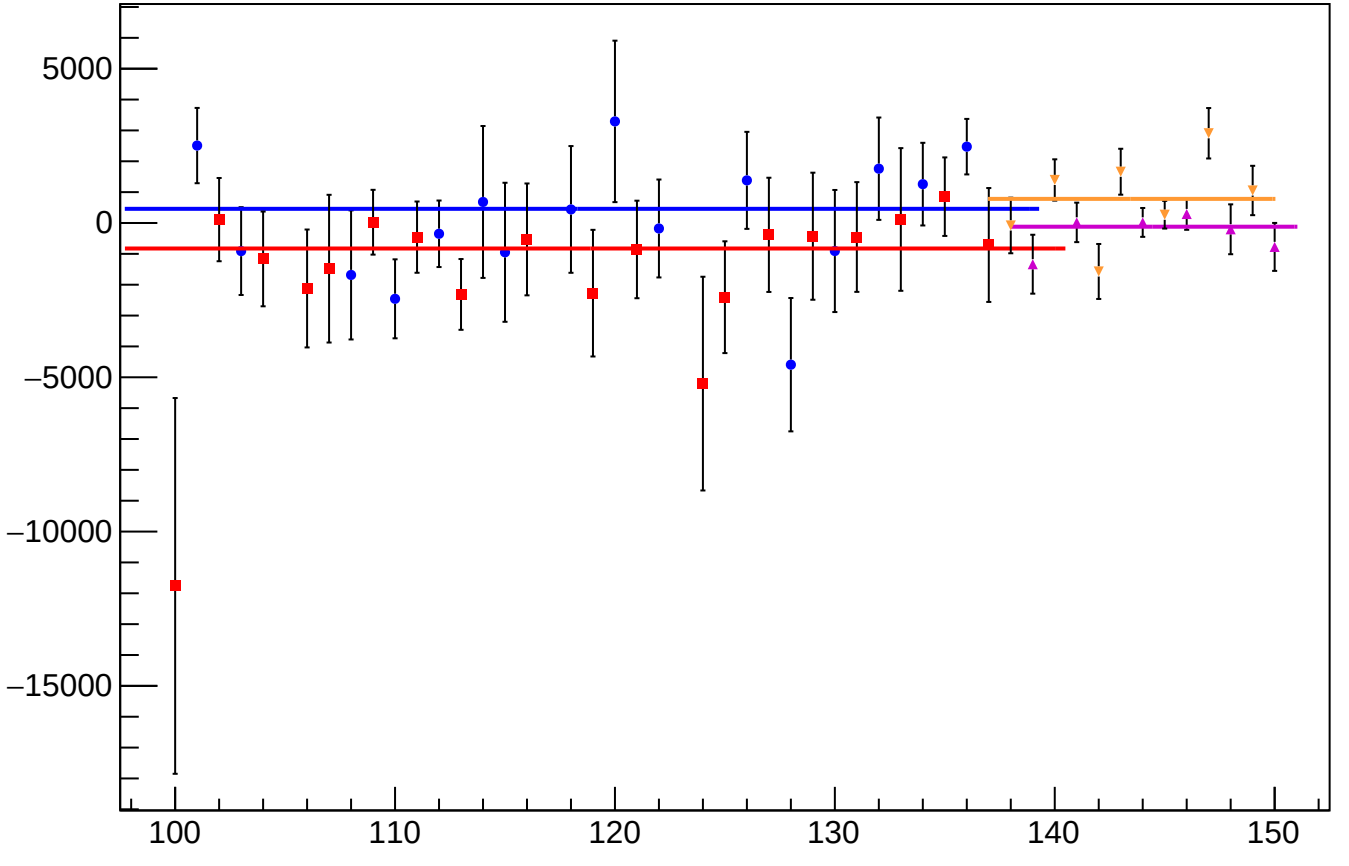
Right: 951.191+/-0.181 $\chi^2$/NDF: 1498078.4/34

In: 668.265+/-0.144 $\chi^2$/NDF:3125980.5/21

Out: 669.517+/-0.142 $\chi^2$/NDF:3279919.3/25

All: 668.899+/-0.101 $\chi^2$/NDF: 6405938.0/47

# asym_sam_37_avg_mean vs Slug, Sign Corrected




Right In: 459.137+/-376.873 $\chi^2$/NDF: 24.6/15

Left Out: 781.471+/-262.122 $\chi^2$/NDF:18.3/6

Right Out: -826.531+/-374.244 $\chi^2$/NDF: 11.7/18

Left In: -120.228+/-257.315 $\chi^2$/NDF:3.1/5

Left: 322.278+/-183.625 $\chi^2$/NDF: 27.5/12

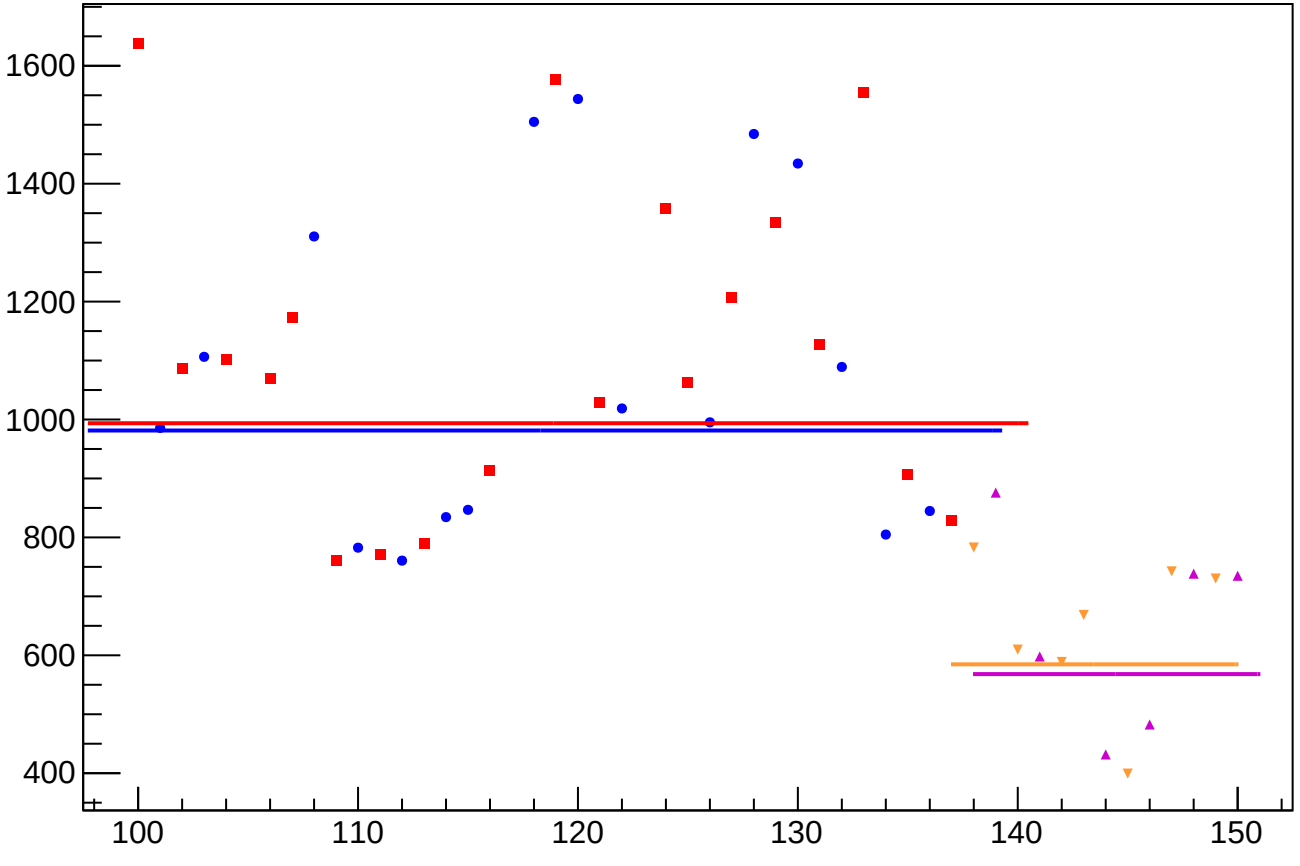
Right: -188.198+/-265.555 $\chi^2$/NDF: 42.1/34

In: 63.980+/-212.507 $\chi^2$/NDF:29.3/21

Out: 252.255+/-214.698 $\chi^2$/NDF:42.4/25

All: 157.152+/-151.034 $\chi^2$/NDF: 72.1/47

# asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 981.349+/-0.266 $\chi^2$/NDF: 737627.4/15

Left Out: 584.687+/-0.185 $\chi^2$/NDF:606537.3/6

Right Out: 993.684+/-0.265 $\chi^2$/NDF: 719799.0/18

Left In: 568.117+/-0.182 $\chi^2$/NDF:619015.8/5

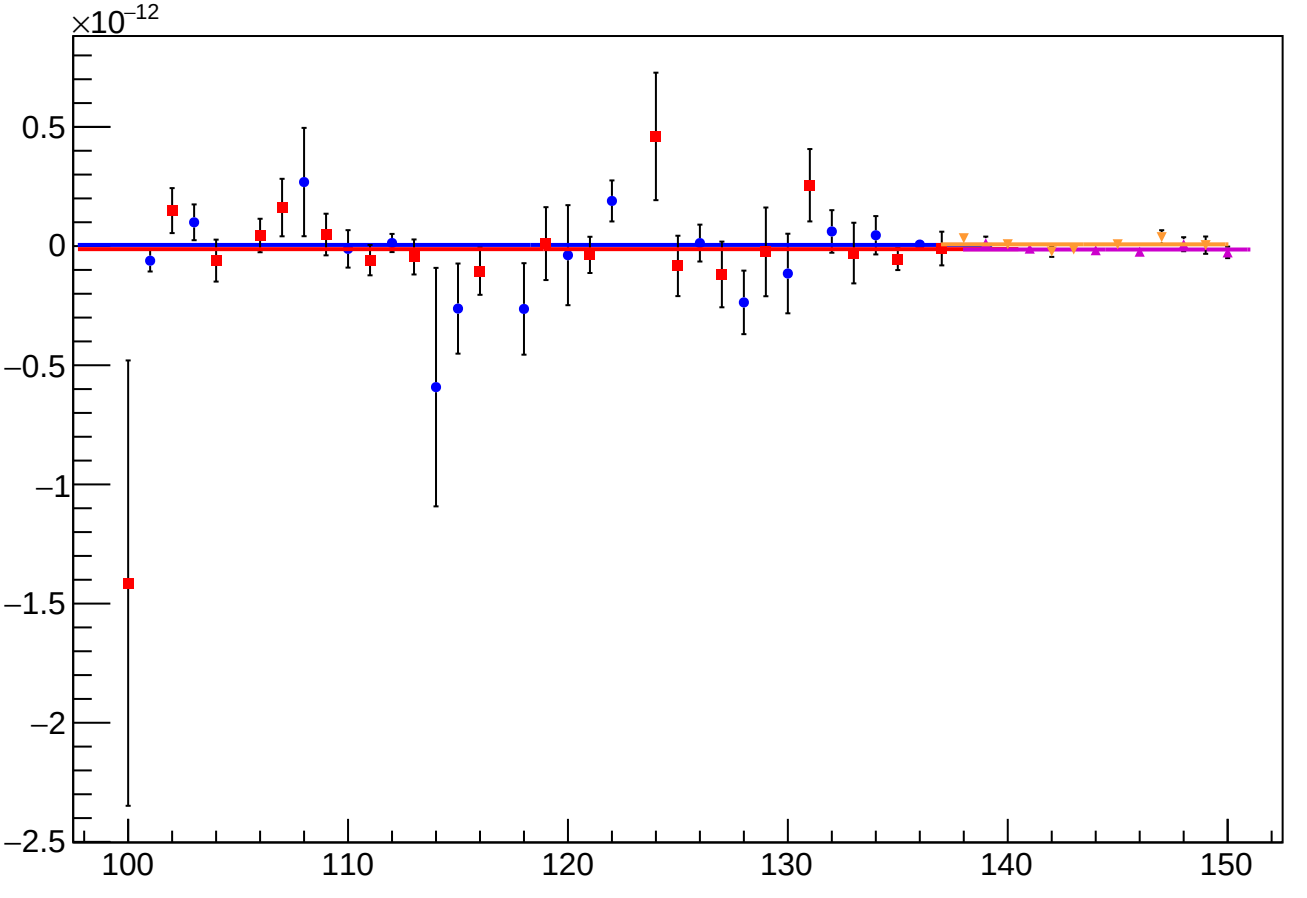
Left: 576.249+/-0.130 $\chi^2$/NDF: 1229623.2/12

Right: 987.560+/-0.188 $\chi^2$/NDF: 1458505.1/34

In: 699.503+/-0.150 $\chi^2$/NDF:2996646.7/21

Out: 719.294+/-0.152 $\chi^2$/NDF:2928882.5/25

All: 709.297+/-0.107 $\chi^2$/NDF: 5934113.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.2/5

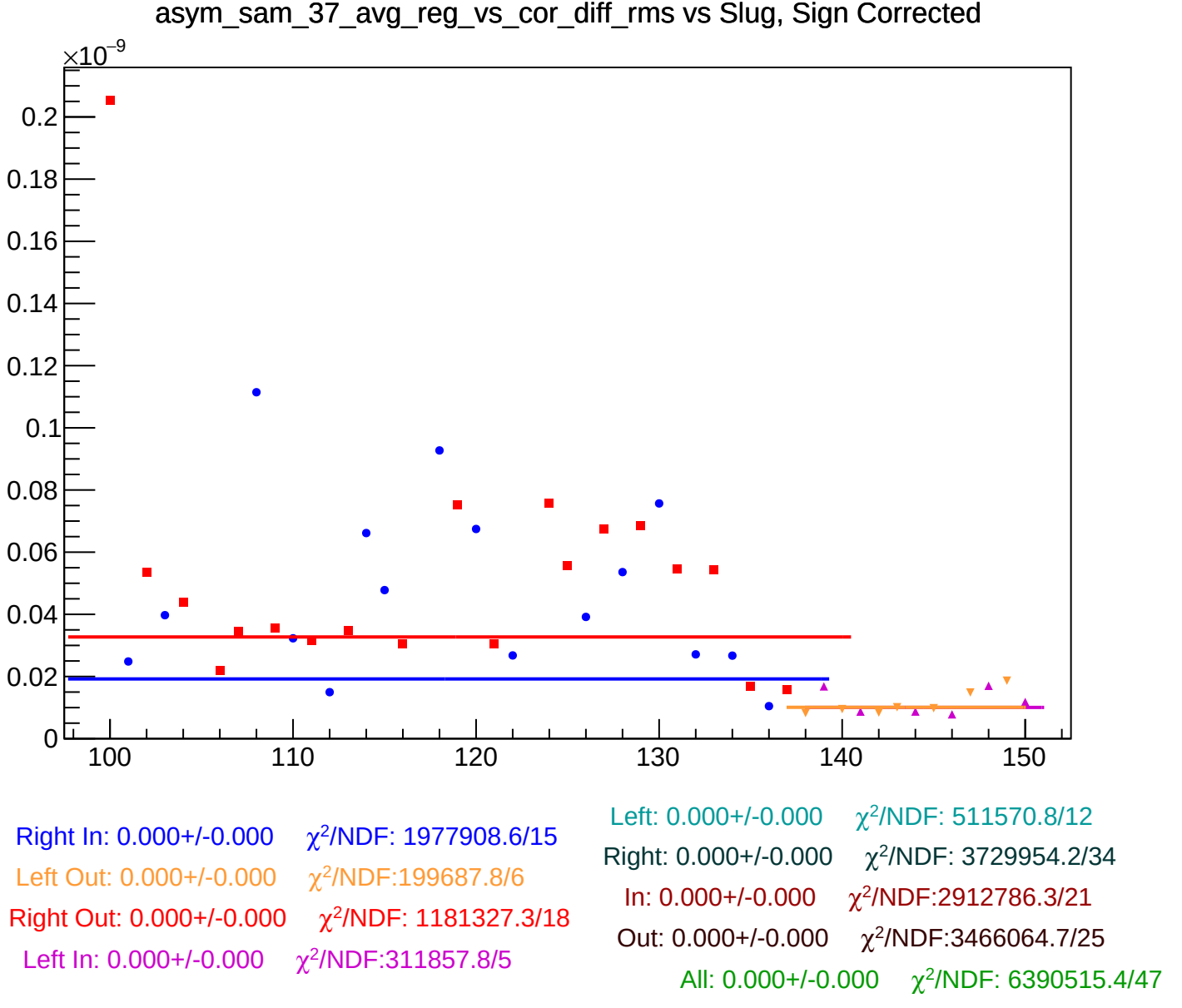
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.2/12

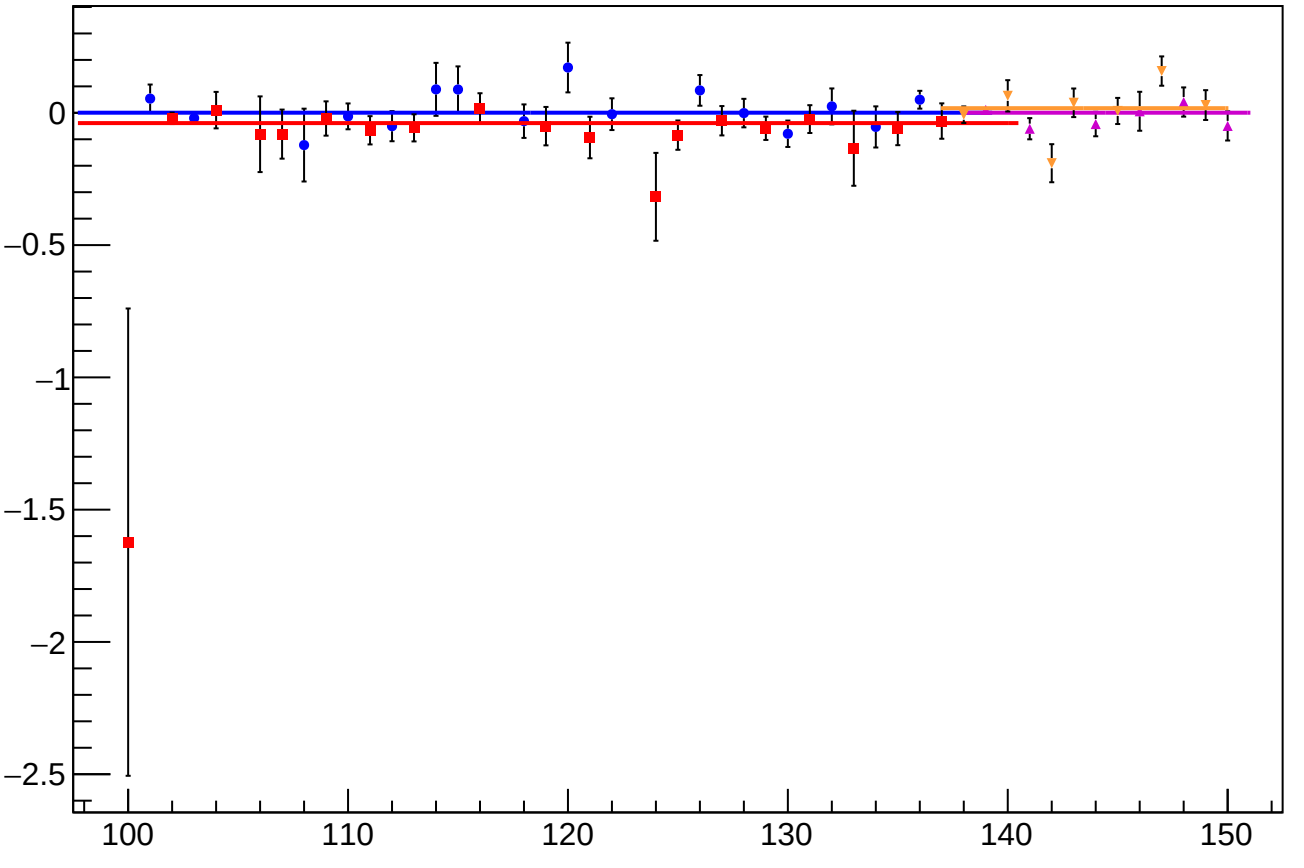
Right: -0.000+/-0.000 $\chi^2$/NDF: 38.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:25.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 50.8/47


asym_sam_37_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1977908.6/15
Left Out: 0.000+/-0.000 χ²/NDF:199687.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 1181327.3/18
Left In: 0.000+/-0.000 χ²/NDF:311857.8/5
Left: 0.000+/-0.000 χ²/NDF: 511570.8/12
Right: 0.000+/-0.000 χ²/NDF: 3729954.2/34
In: 0.000+/-0.000 χ²/NDF:2912786.3/21
Out: 0.000+/-0.000 χ²/NDF:3466064.7/25
All: 0.000+/-0.000 χ²/NDF: 6390515.4/47




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.018+/-0.019 $\chi^2$/NDF:16.2/6

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.000+/-0.012 $\chi^2$/NDF:5.1/5

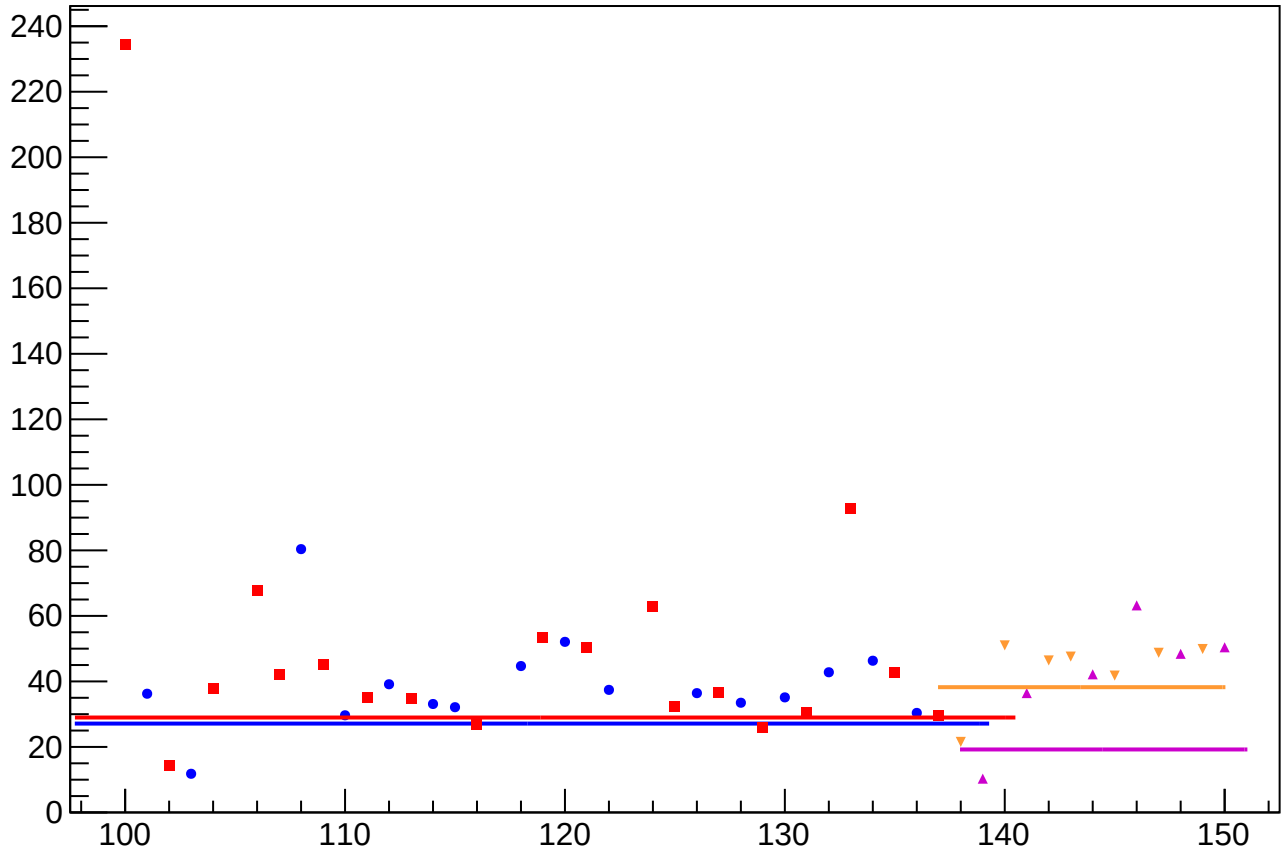
Left: 0.005+/-0.010 $\chi^2$/NDF: 22.0/12

Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.000+/-0.008 $\chi^2$/NDF:21.6/21

Out: -0.021+/-0.010 $\chi^2$/NDF:33.6/25

All: -0.008+/-0.007 $\chi^2$/NDF: 57.8/47




Right In: 27.128+/-0.009 $\chi^2$/NDF: 2415316.1/15

Left Out: 38.239+/-0.013 $\chi^2$/NDF:912369.3/6

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 19.227+/-0.008 $\chi^2$/NDF:3651856.4/5

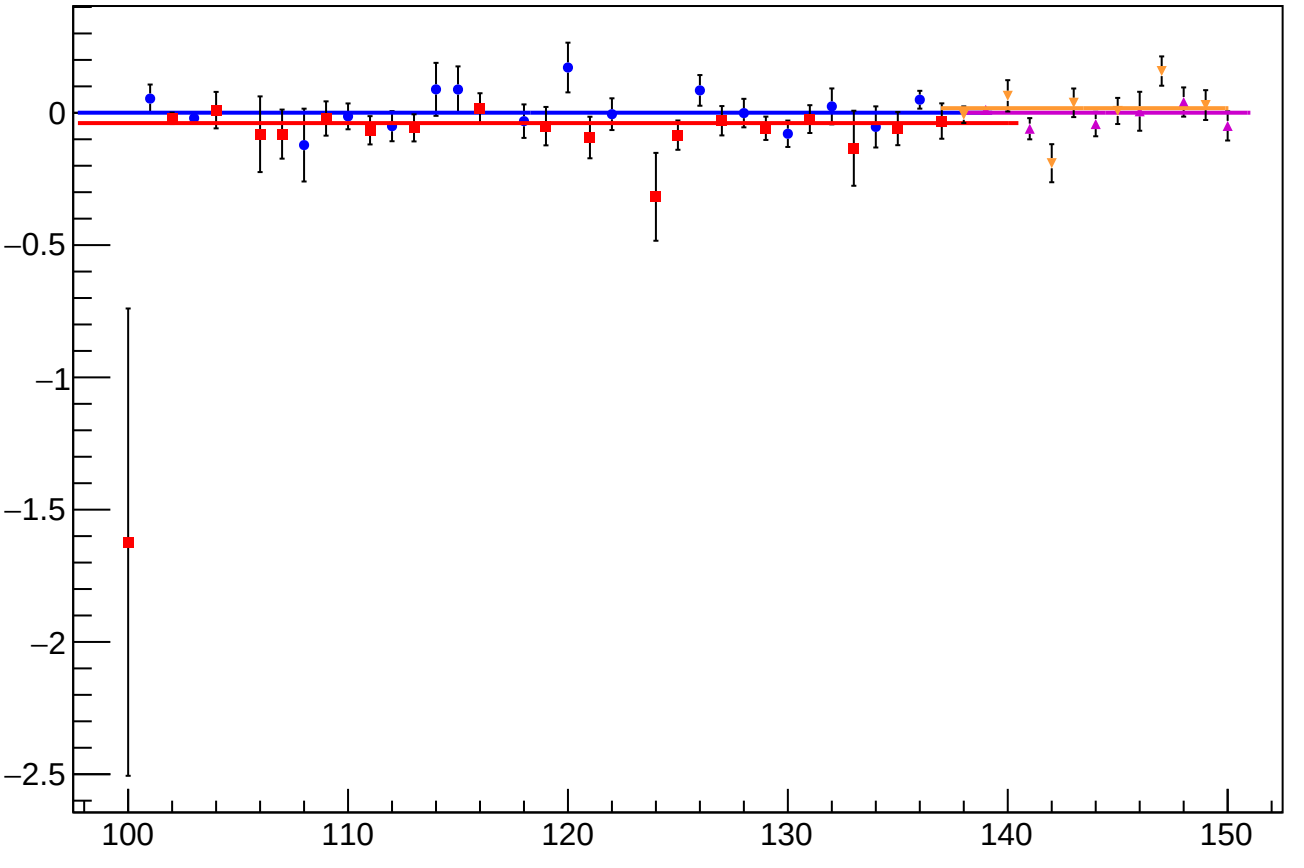
Left: 24.524+/-0.007 $\chi^2$/NDF: 6069996.2/12

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 23.021+/-0.006 $\chi^2$/NDF:6515401.1/21

Out: 31.901+/-0.007 $\chi^2$/NDF:3707554.2/25

All: 26.474+/-0.005 $\chi^2$/NDF: 11104834.2/47




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.018+/-0.019 $\chi^2$/NDF:16.2/6

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.000+/-0.012 $\chi^2$/NDF:5.1/5

Left: 0.005+/-0.010 $\chi^2$/NDF: 22.0/12

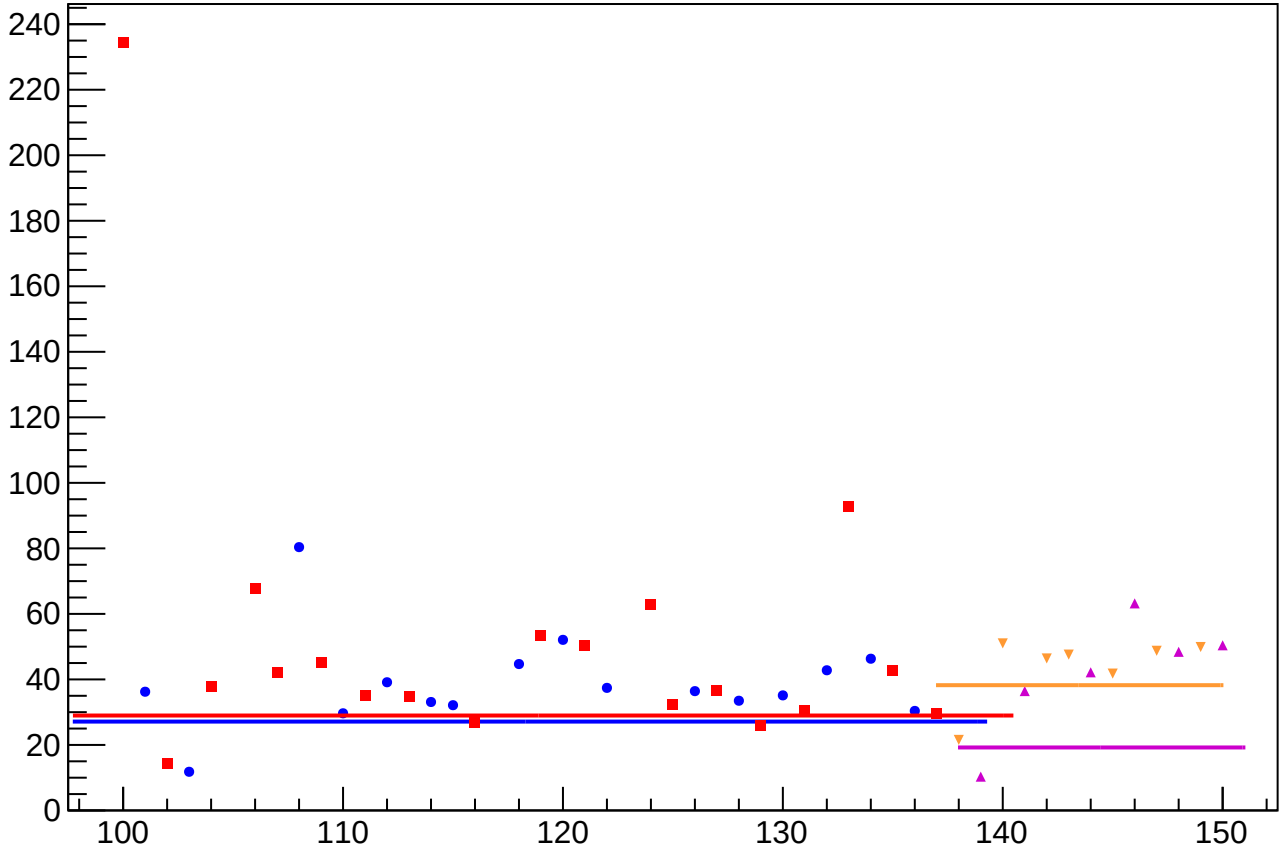
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.000+/-0.008 $\chi^2$/NDF:21.6/21

Out: -0.021+/-0.010 $\chi^2$/NDF:33.6/25

All: -0.008+/-0.007 $\chi^2$/NDF: 57.8/47

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.128+/-0.009 $\chi^2$/NDF: 2415316.1/15

Left Out: 38.239+/-0.013 $\chi^2$/NDF:912369.3/6

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 19.227+/-0.008 $\chi^2$/NDF:3651856.4/5

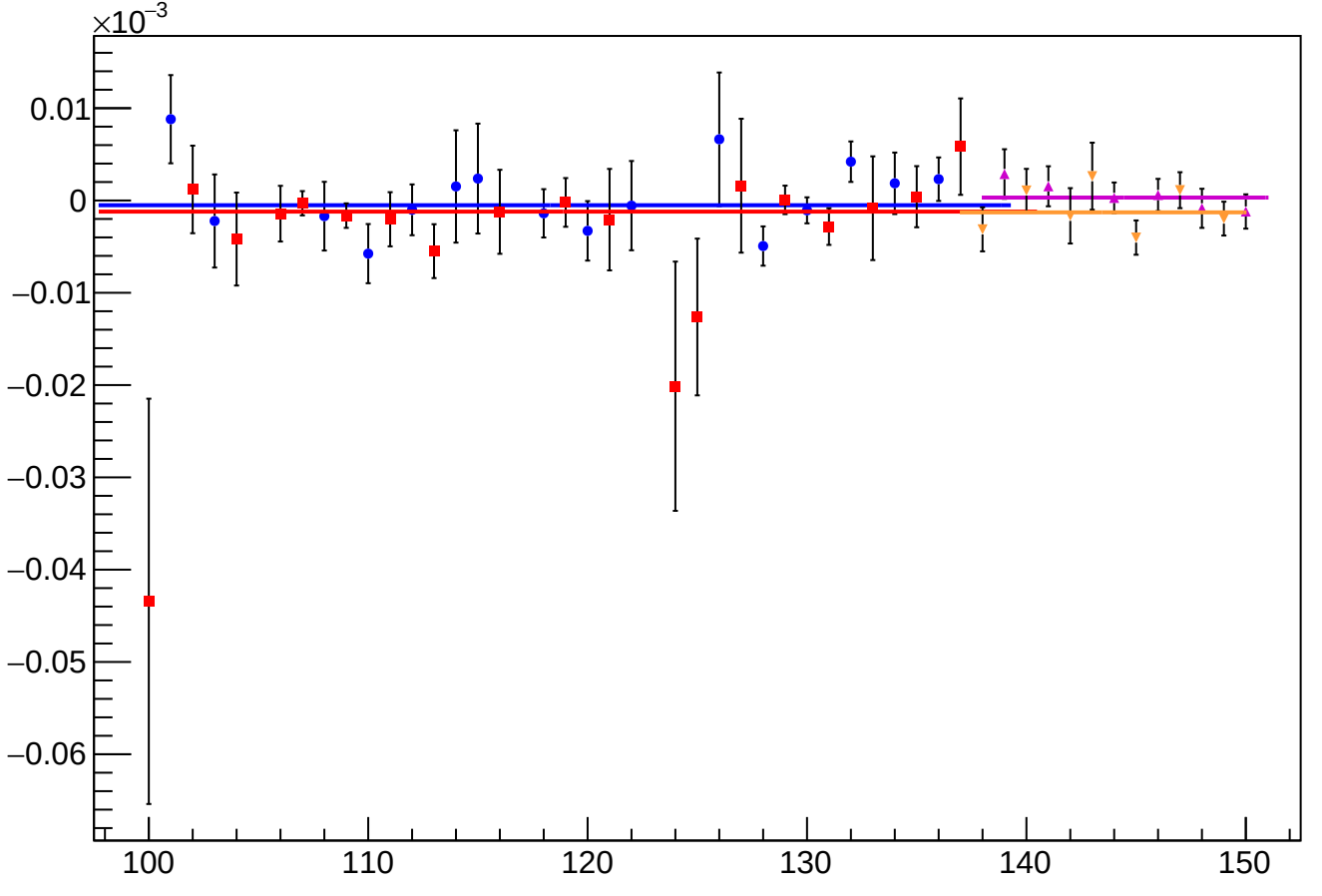
Left: 24.524+/-0.007 $\chi^2$/NDF: 6069996.2/12

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 23.021+/-0.006 $\chi^2$/NDF:6515401.1/21

Out: 31.901+/-0.007 $\chi^2$/NDF:3707554.2/25

All: 26.474+/-0.005 $\chi^2$/NDF: 11104834.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.2/5

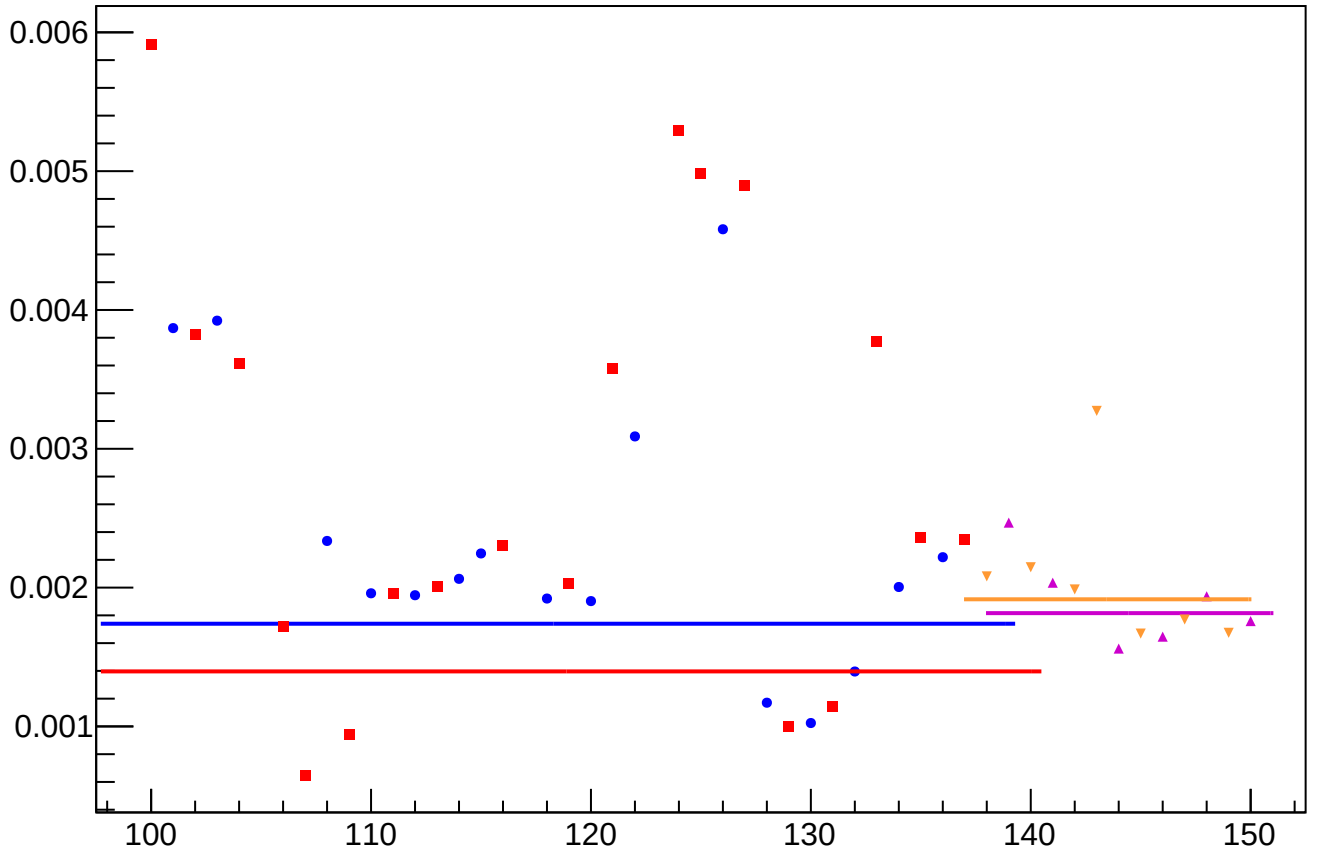
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.7/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:21.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 46.2/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2146798.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:390596.0/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4323193.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:212646.3/5

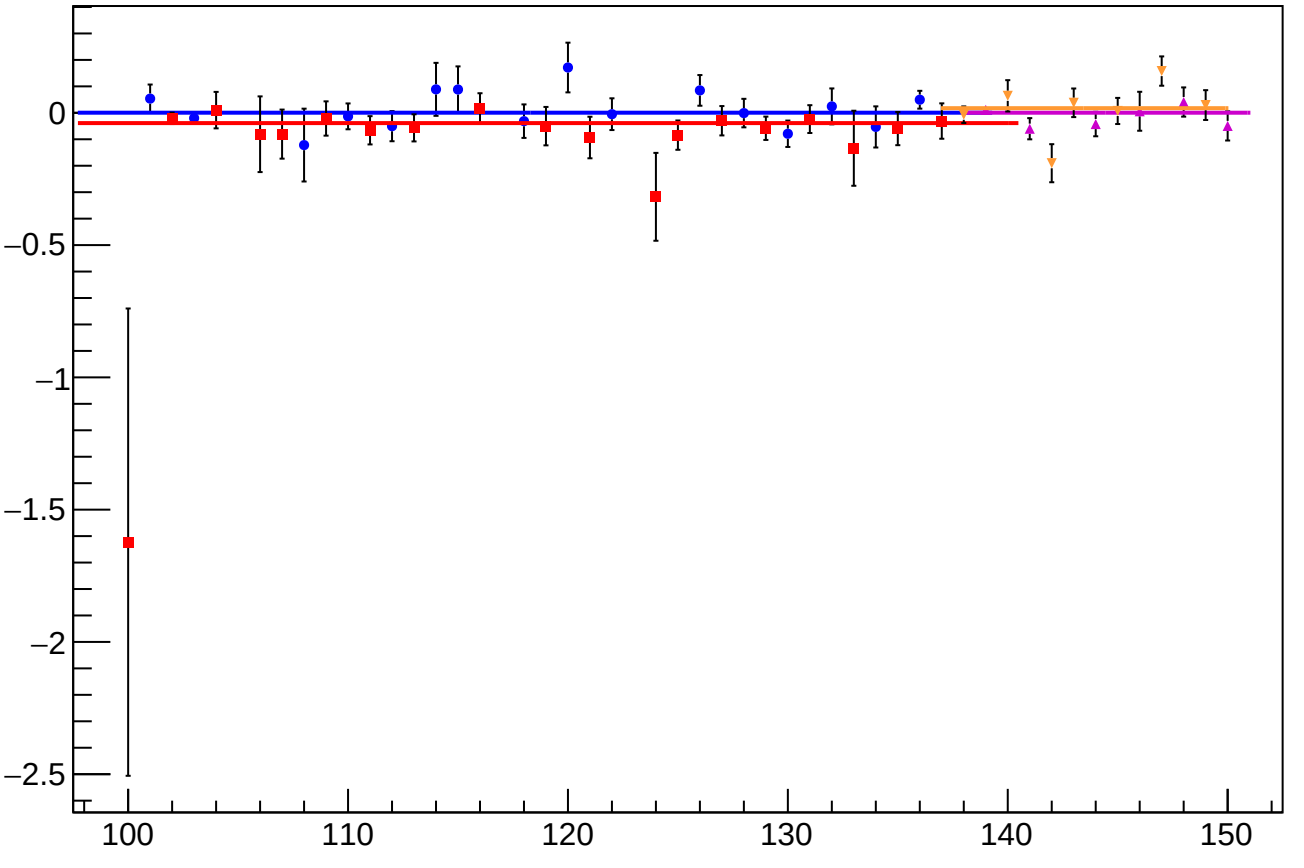
Left: 0.002+/-0.000 $\chi^2$/NDF: 617843.2/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 6735676.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:2369511.5/21

Out: 0.002+/-0.000 $\chi^2$/NDF:5208506.9/25

All: 0.002+/-0.000 $\chi^2$/NDF: 7727038.5/47




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.018+/-0.019 $\chi^2$/NDF:16.3/6

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.000+/-0.012 $\chi^2$/NDF:5.1/5

Left: 0.005+/-0.010 $\chi^2$/NDF: 22.0/12

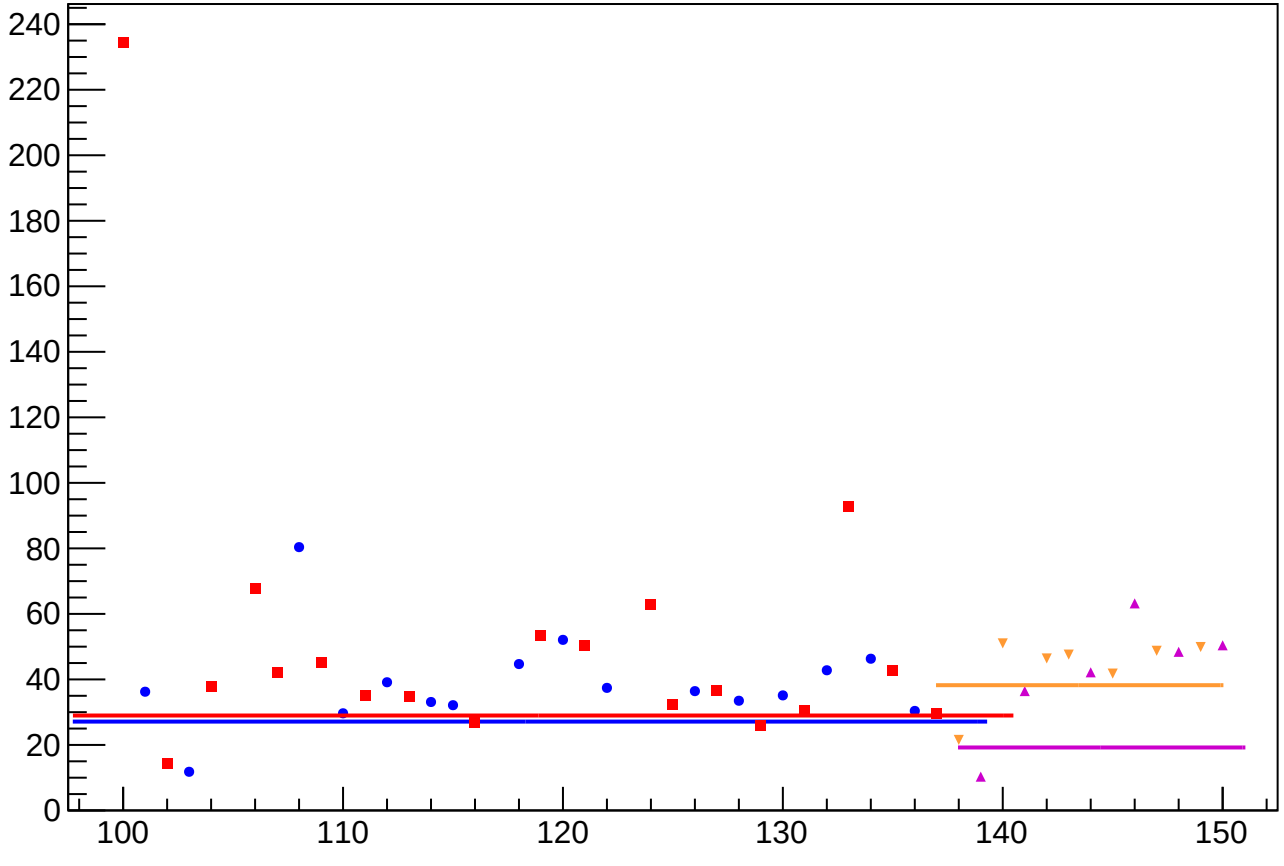
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.000+/-0.008 $\chi^2$/NDF:21.6/21

Out: -0.021+/-0.010 $\chi^2$/NDF:33.6/25

All: -0.008+/-0.007 $\chi^2$/NDF: 57.8/47

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.127+/-0.009 $\chi^2$/NDF: 2415651.3/15

Left Out: 38.237+/-0.013 $\chi^2$/NDF:912756.3/6

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 19.224+/-0.008 $\chi^2$/NDF:3652292.0/5

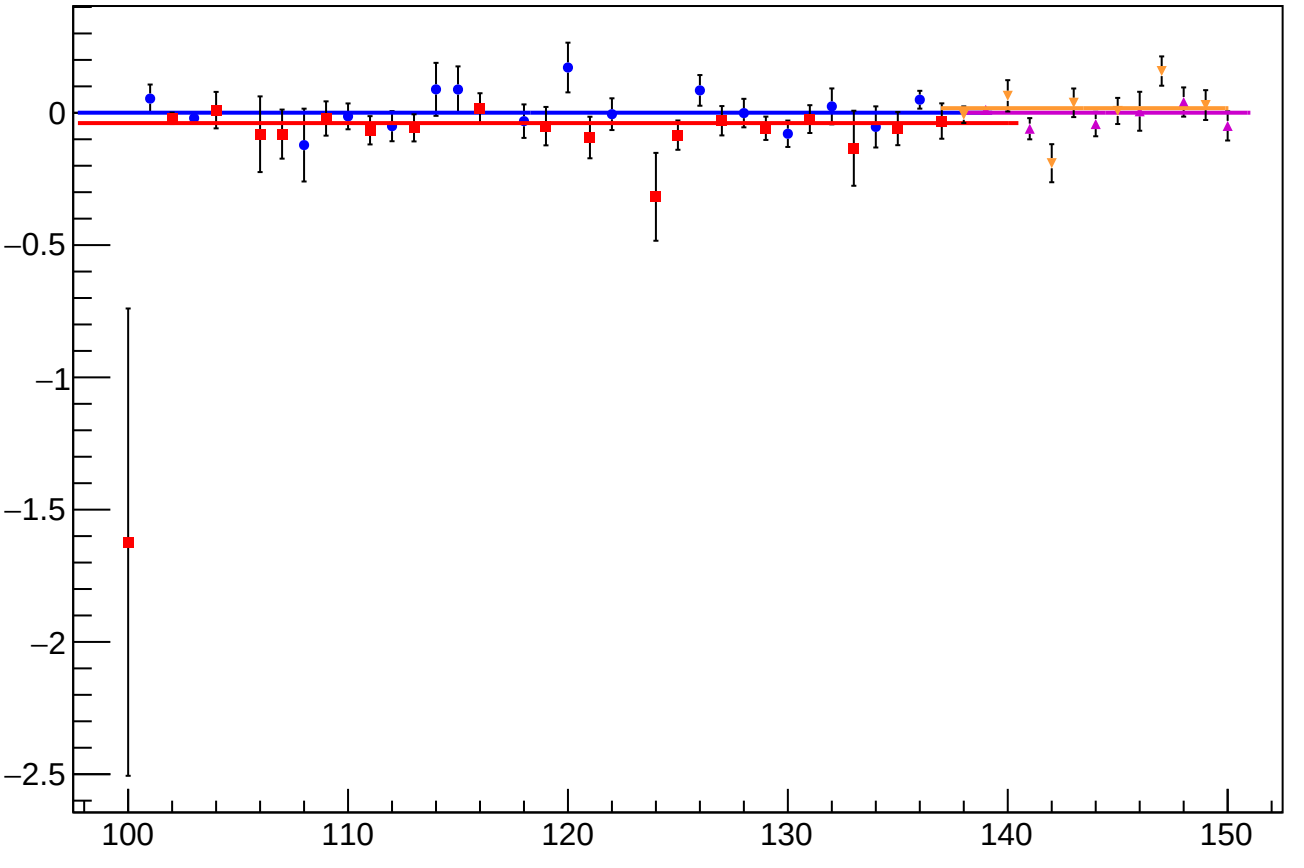
Left: 24.522+/-0.007 $\chi^2$/NDF: 6070933.7/12

Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 23.020+/-0.006 $\chi^2$/NDF:6516365.0/21

Out: 31.903+/-0.007 $\chi^2$/NDF:3706986.4/25

All: 26.473+/-0.005 $\chi^2$/NDF: 11105869.1/47




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.018+/-0.019 $\chi^2$/NDF:16.3/6

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.000+/-0.012 $\chi^2$/NDF:5.1/5

Left: 0.005+/-0.010 $\chi^2$/NDF: 22.0/12

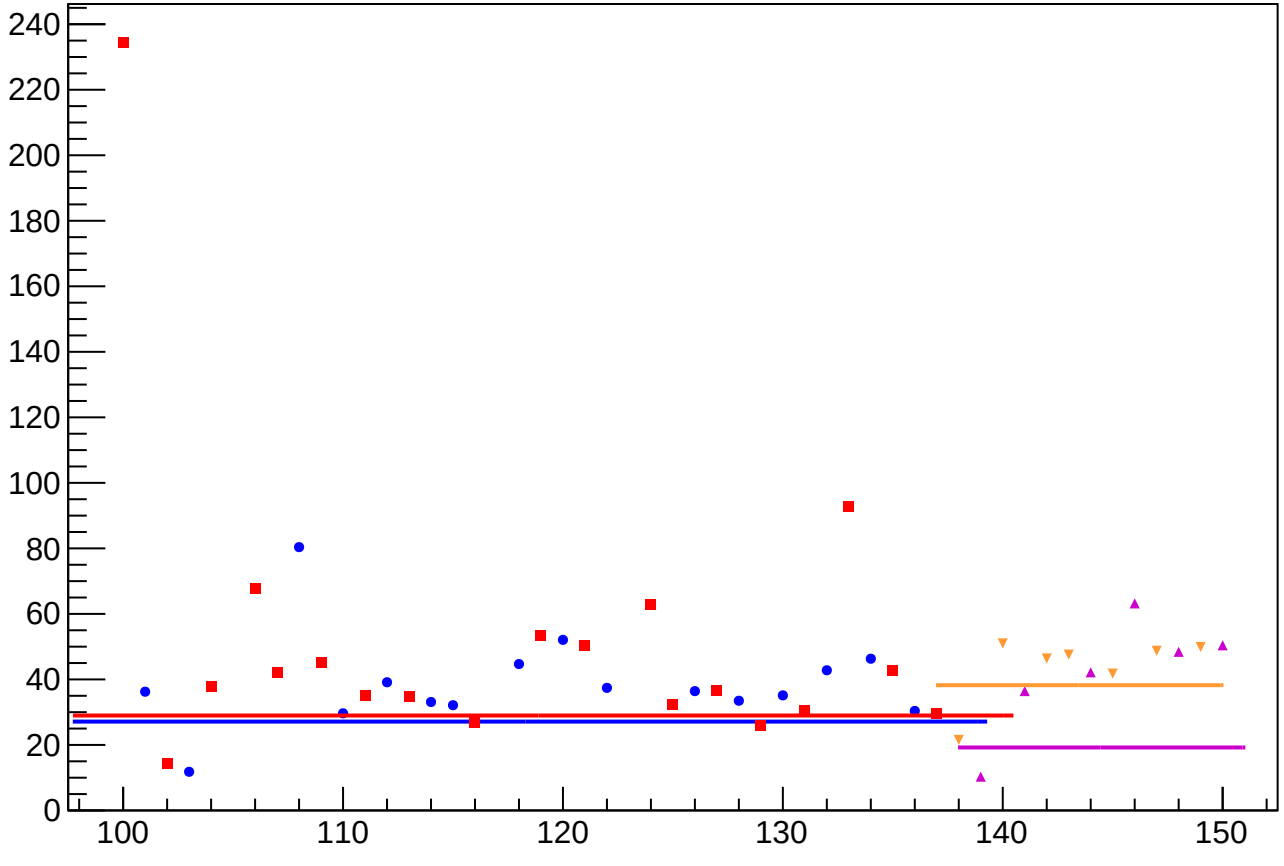
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.000+/-0.008 $\chi^2$/NDF:21.6/21

Out: -0.021+/-0.010 $\chi^2$/NDF:33.6/25

All: -0.008+/-0.007 $\chi^2$/NDF: 57.8/47

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.127+/-0.009 $\chi^2$/NDF: 2415651.3/15

Left Out: 38.237+/-0.013 $\chi^2$/NDF:912756.3/6

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 19.224+/-0.008 $\chi^2$/NDF:3652292.0/5

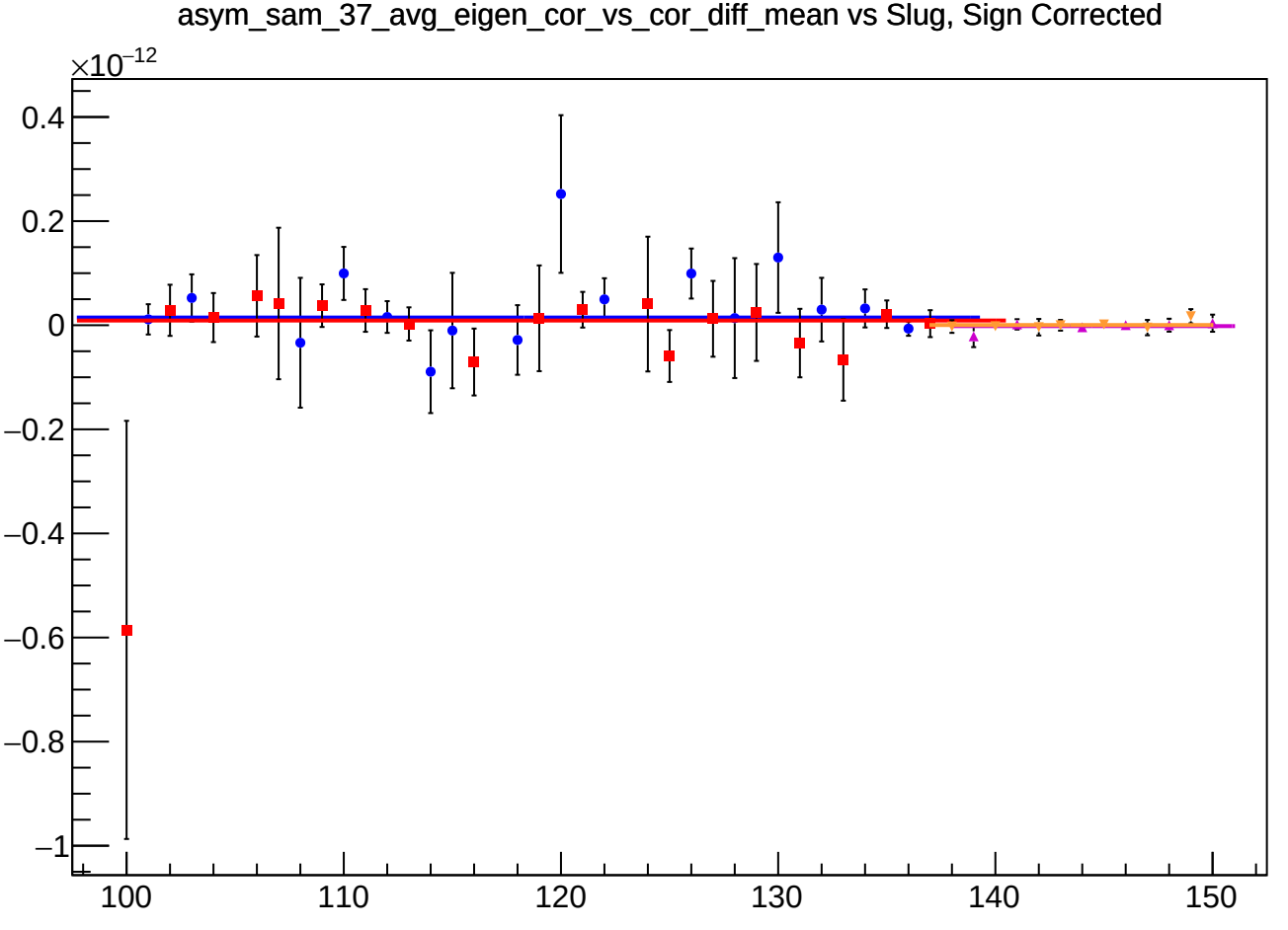
Left: 24.522+/-0.007 $\chi^2$/NDF: 6070933.7/12

Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 23.020+/-0.006 $\chi^2$/NDF:6516365.0/21

Out: 31.903+/-0.007 $\chi^2$/NDF:3706986.4/25

All: 26.473+/-0.005 $\chi^2$/NDF: 11105869.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

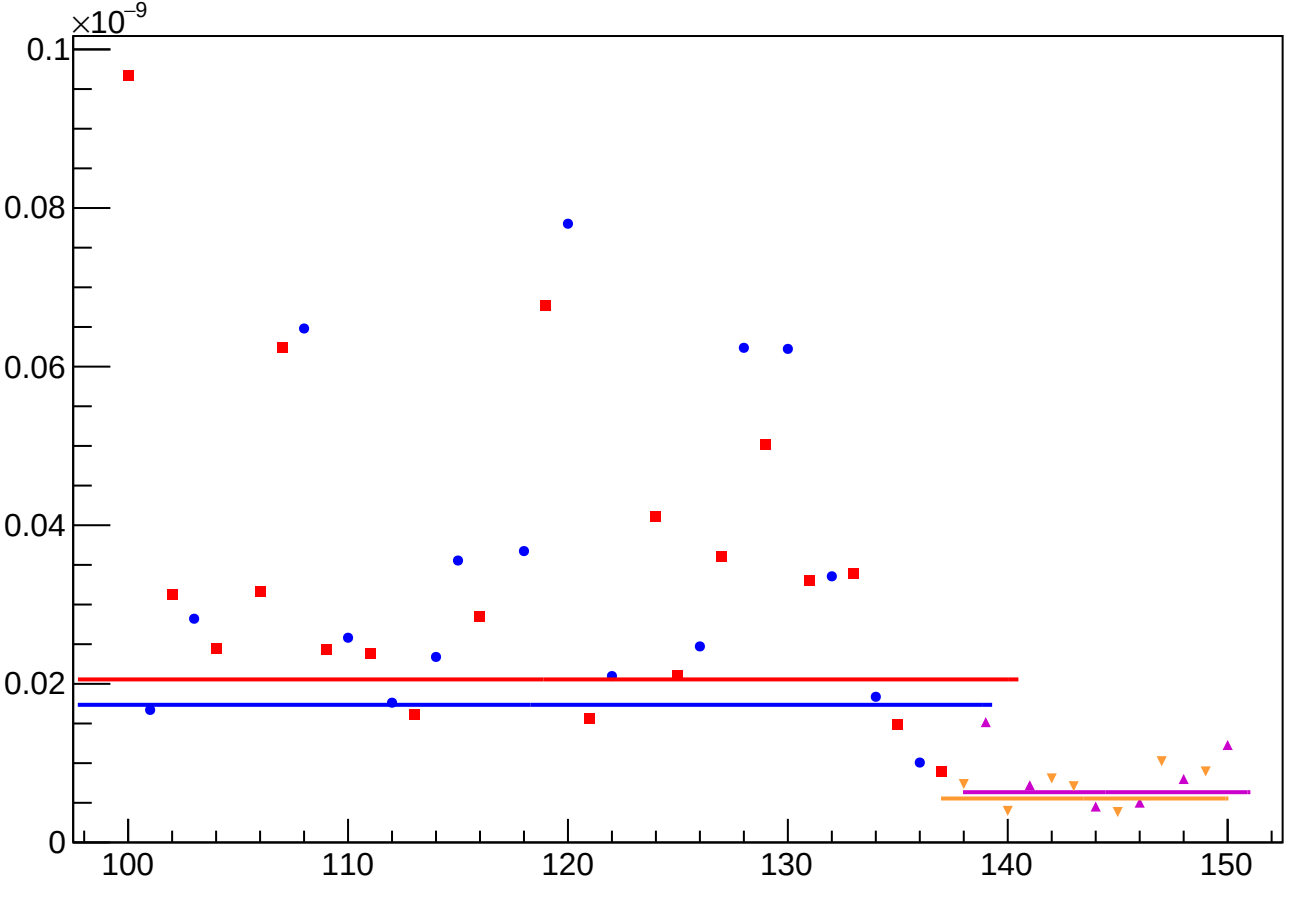
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 25.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:11.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 31.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2442014.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:718477.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1925673.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:880128.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1641698.0/12

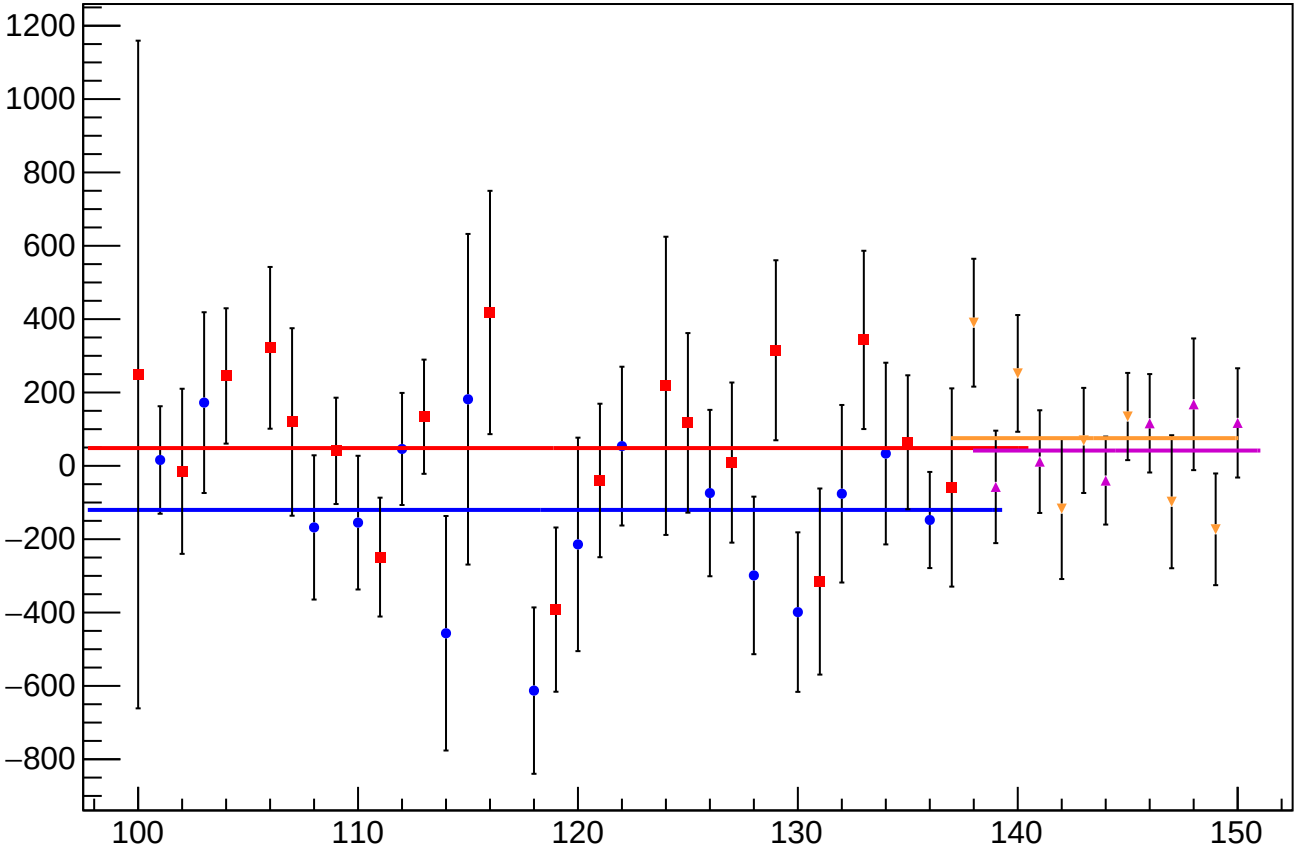
Right: 0.000+/-0.000 $\chi^2$/NDF: 4467051.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:5619485.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6107008.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11804870.1/47

# reg_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -120.159+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 75.490+/-58.472 $\chi^2$/NDF:9.3/6

Right Out: 48.449+/-49.910 $\chi^2$/NDF: 17.0/18

Left In: 41.704+/-58.257 $\chi^2$/NDF:2.0/5

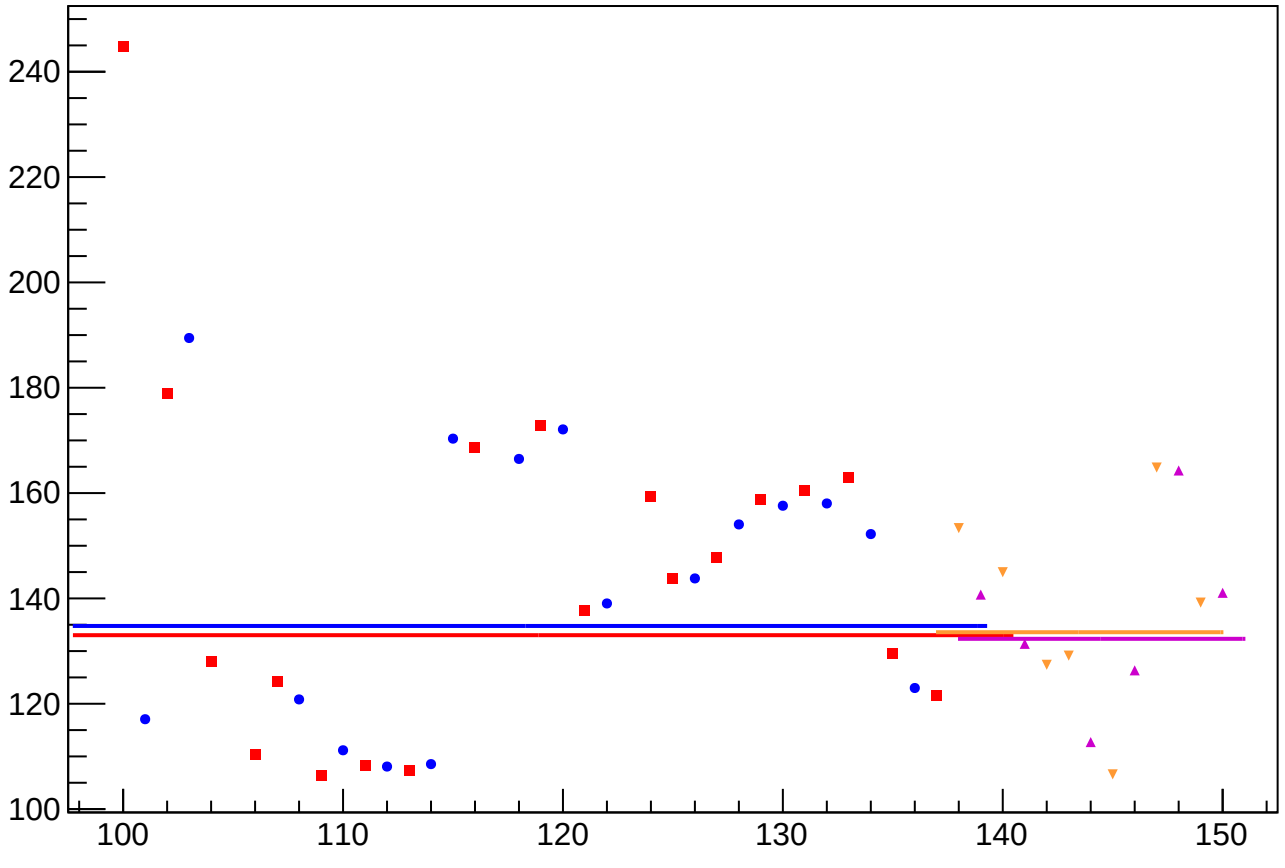
Left: 58.535+/-41.270 $\chi^2$/NDF: 11.5/12

Right: -33.863+/-35.706 $\chi^2$/NDF: 36.0/34

In: -49.771+/-38.417 $\chi^2$/NDF:19.8/21

Out: 59.846+/-37.961 $\chi^2$/NDF:26.4/25

All: 5.692+/-27.002 $\chi^2$/NDF: 50.3/47




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416778.7/15

Left Out: 133.583+/-0.041 $\chi^2$/NDF:205185.5/6

Right Out: 133.019+/-0.035 $\chi^2$/NDF: 495717.0/18

Left In: 132.329+/-0.041 $\chi^2$/NDF:133727.6/5

Left: 132.953+/-0.029 $\chi^2$/NDF: 339374.6/12

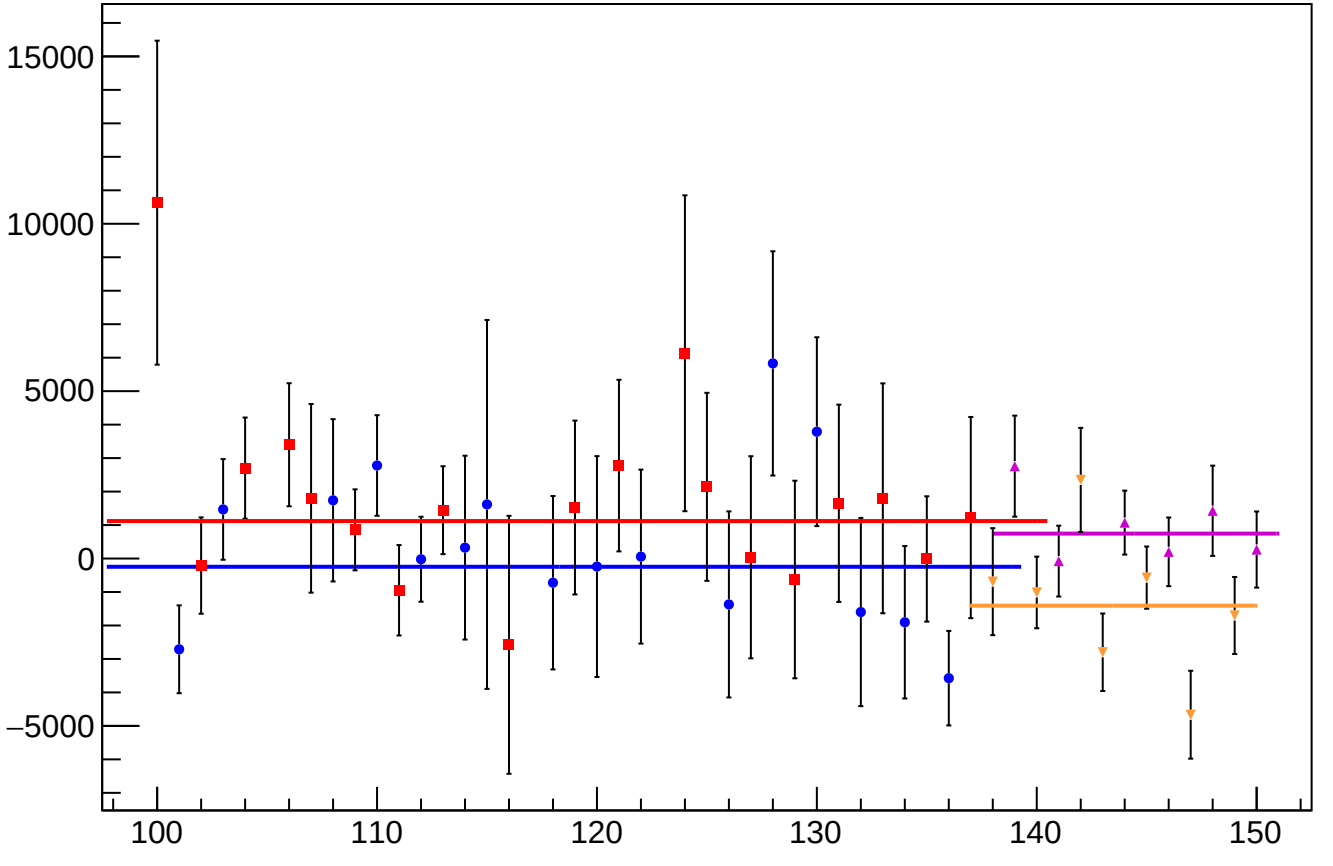
Right: 133.875+/-0.025 $\chi^2$/NDF: 913698.6/34

In: 133.709+/-0.027 $\chi^2$/NDF:552492.7/21

Out: 133.257+/-0.027 $\chi^2$/NDF:701010.0/25

All: 133.480+/-0.019 $\chi^2$/NDF: 1253643.0/47

asym_sam_48_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -246.357+/-501.413 $\chi^2$/NDF: 21.6/15

Left Out: -1407.776+/-450.951 $\chi^2$/NDF:14.7/6

Right Out: 1119.420+/-468.400 $\chi^2$/NDF: 13.4/18

Left In: 744.830+/-461.172 $\chi^2$/NDF:3.2/5

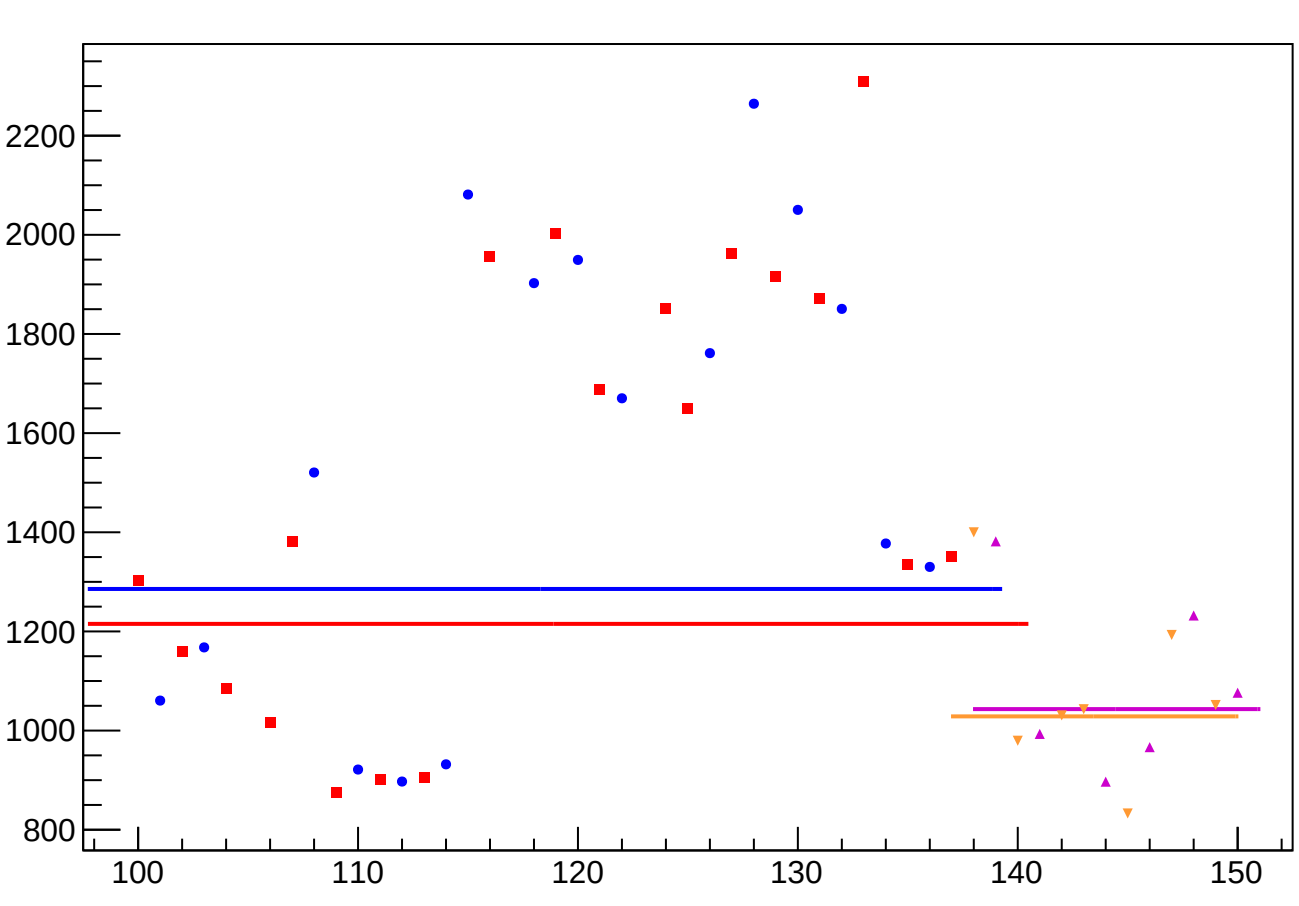
Left: -355.590+/-322.423 $\chi^2$/NDF: 29.0/12

Right: 482.970+/-342.285 $\chi^2$/NDF: 39.0/34

In: 290.602+/-339.434 $\chi^2$/NDF:26.9/21

Out: -192.124+/-324.864 $\chi^2$/NDF:43.2/25

All: 38.656+/-234.695 $\chi^2$/NDF: 71.2/47




Right In: 1285.668+/-0.355 $\chi^2$/NDF: 1170437.4/15

Left Out: 1028.646+/-0.319 $\chi^2$/NDF:233396.4/6

Right Out: 1215.237+/-0.331 $\chi^2$/NDF: 1386290.4/18

Left In: 1043.335+/-0.326 $\chi^2$/NDF:204150.6/5

Left: 1035.826+/-0.228 $\chi^2$/NDF: 438584.3/12

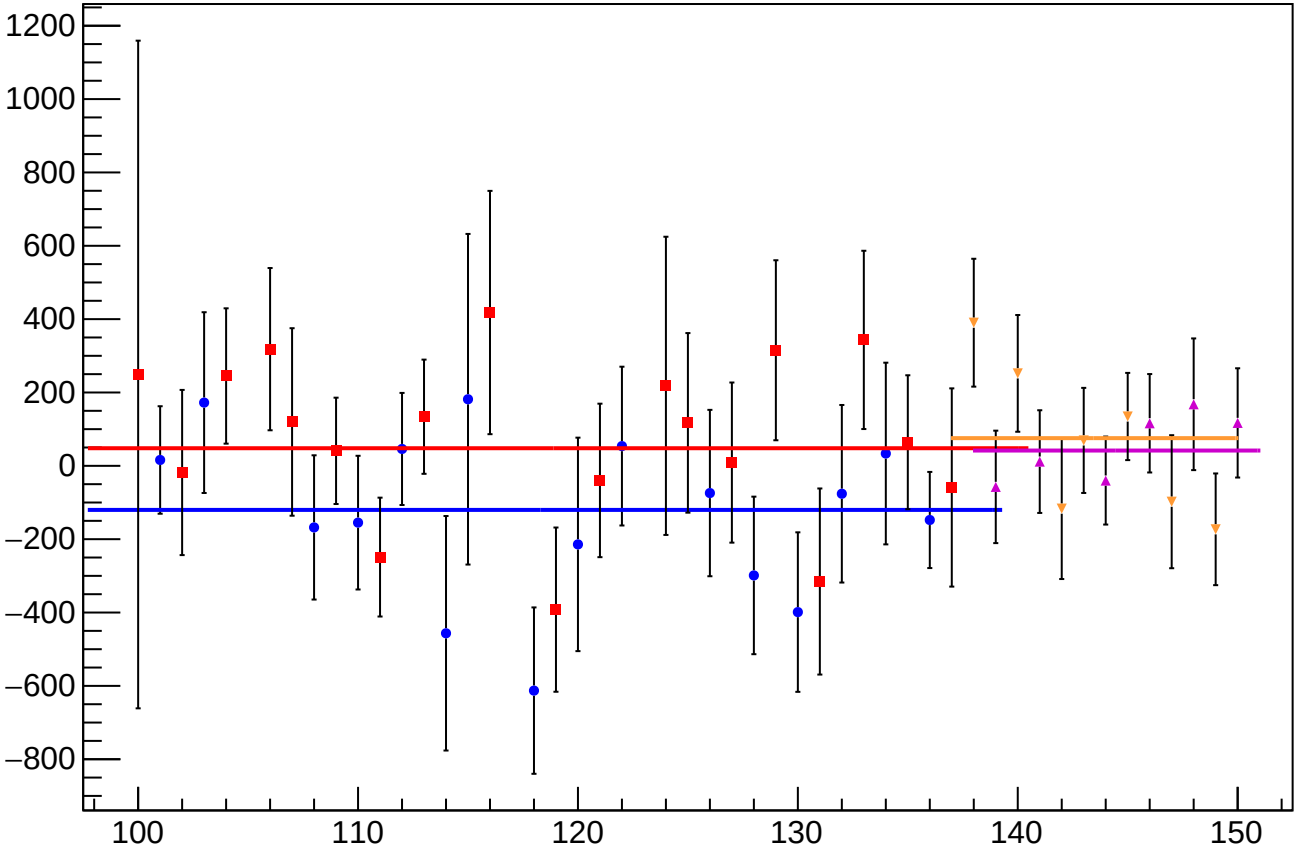
Right: 1248.058+/-0.242 $\chi^2$/NDF: 2577799.9/34

In: 1154.388+/-0.240 $\chi^2$/NDF:1627663.5/21

Out: 1118.401+/-0.230 $\chi^2$/NDF:1784398.4/25

All: 1135.606+/-0.166 $\chi^2$/NDF: 3423795.0/47

# cor_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -120.169+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 75.507+/-58.472 $\chi^2$/NDF:9.3/6

Right Out: 48.013+/-49.919 $\chi^2$/NDF: 17.0/18

Left In: 41.710+/-58.257 $\chi^2$/NDF:2.0/5

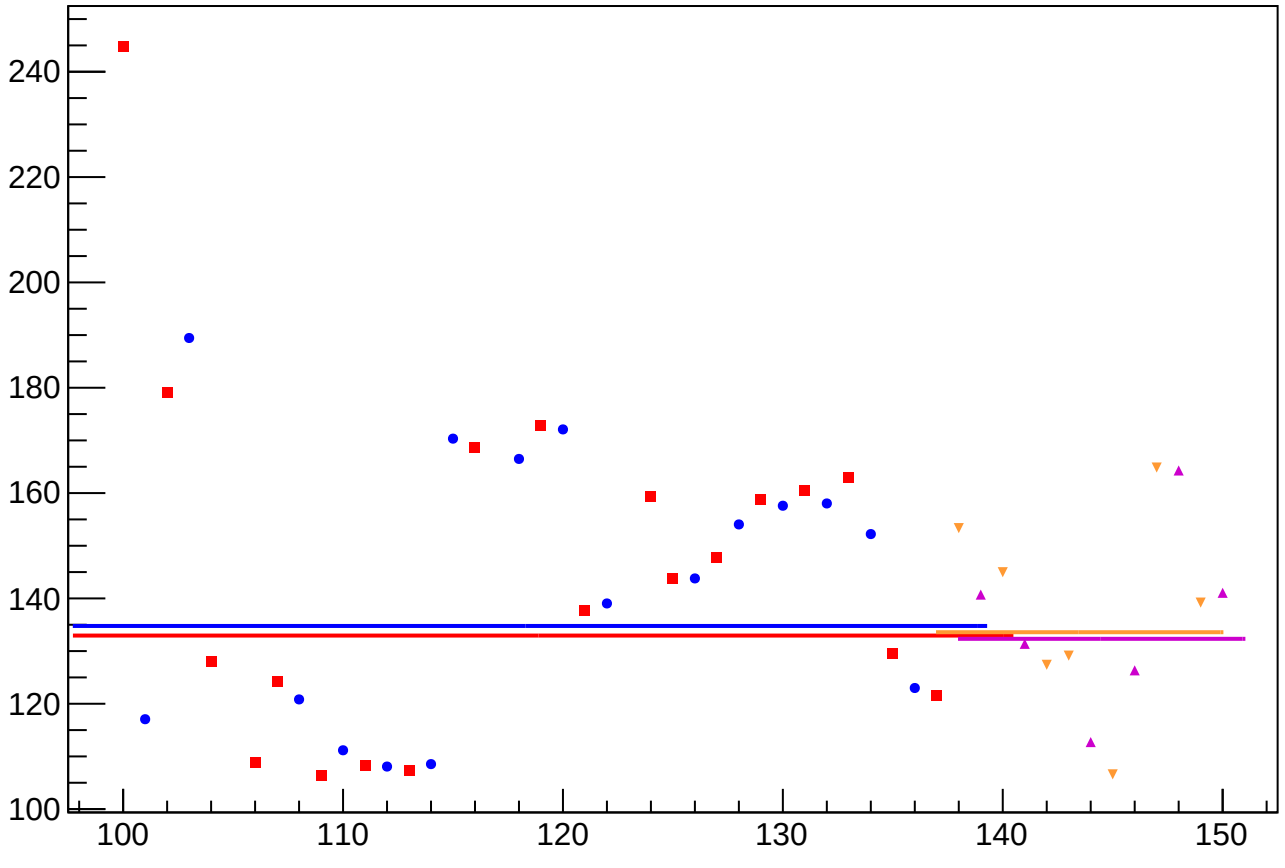
Left: 58.546+/-41.270 $\chi^2$/NDF: 11.5/12

Right: -34.107+/-35.709 $\chi^2$/NDF: 35.9/34

In: -49.774+/-38.417 $\chi^2$/NDF:19.8/21

Out: 59.604+/-37.965 $\chi^2$/NDF:26.4/25

All: 5.562+/-27.004 $\chi^2$/NDF: 50.3/47




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 133.583+/-0.041 $\chi^2$/NDF:205185.5/6

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 132.329+/-0.041 $\chi^2$/NDF:133727.6/5

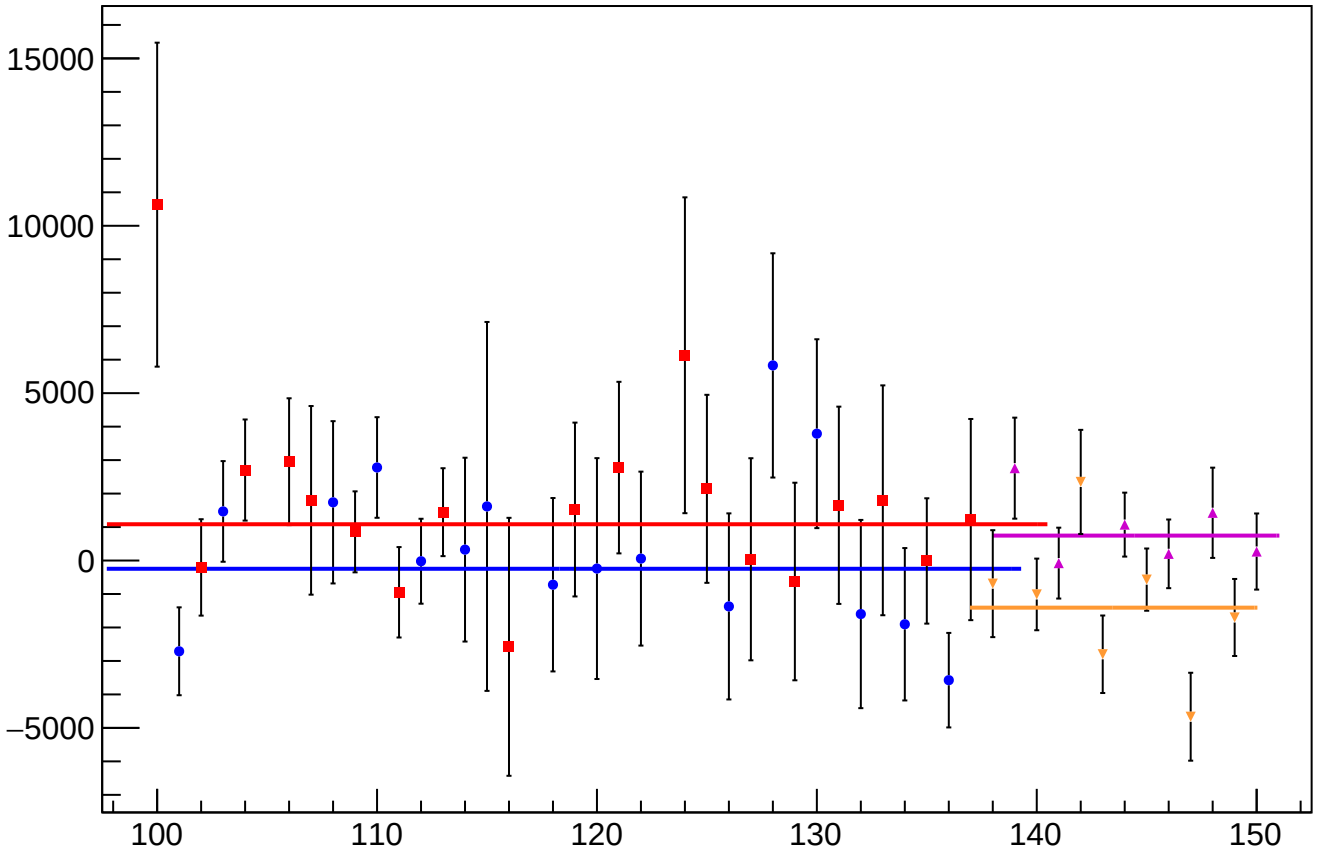
Left: 132.953+/-0.029 $\chi^2$/NDF: 339374.6/12

Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 133.709+/-0.027 $\chi^2$/NDF:552495.8/21

Out: 133.215+/-0.027 $\chi^2$/NDF:704172.9/25

All: 133.459+/-0.019 $\chi^2$/NDF: 1256836.1/47




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -1407.762+/-450.951 $\chi^2$/NDF:14.7/6

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 744.845+/-461.172 $\chi^2$/NDF:3.2/5

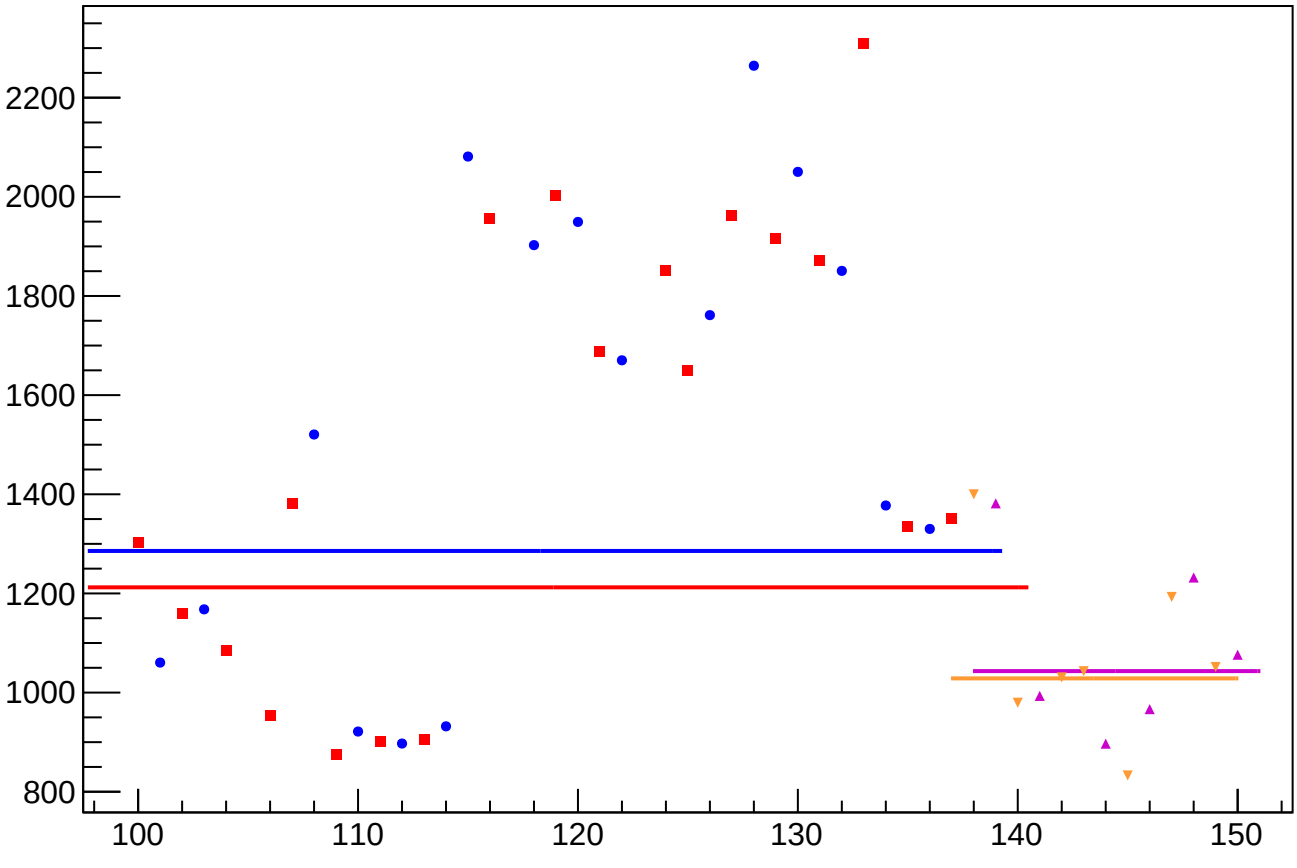
Left: -355.576+/-322.423 $\chi^2$/NDF: 29.0/12

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 290.582+/-339.435 $\chi^2$/NDF:26.9/21

Out: -211.561+/-325.172 $\chi^2$/NDF:42.1/25

All: 28.739+/-234.812 $\chi^2$/NDF: 70.2/47




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 1028.645+/-0.319 $\chi^2$/NDF:233397.6/6

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1043.335+/-0.326 $\chi^2$/NDF:204149.0/5

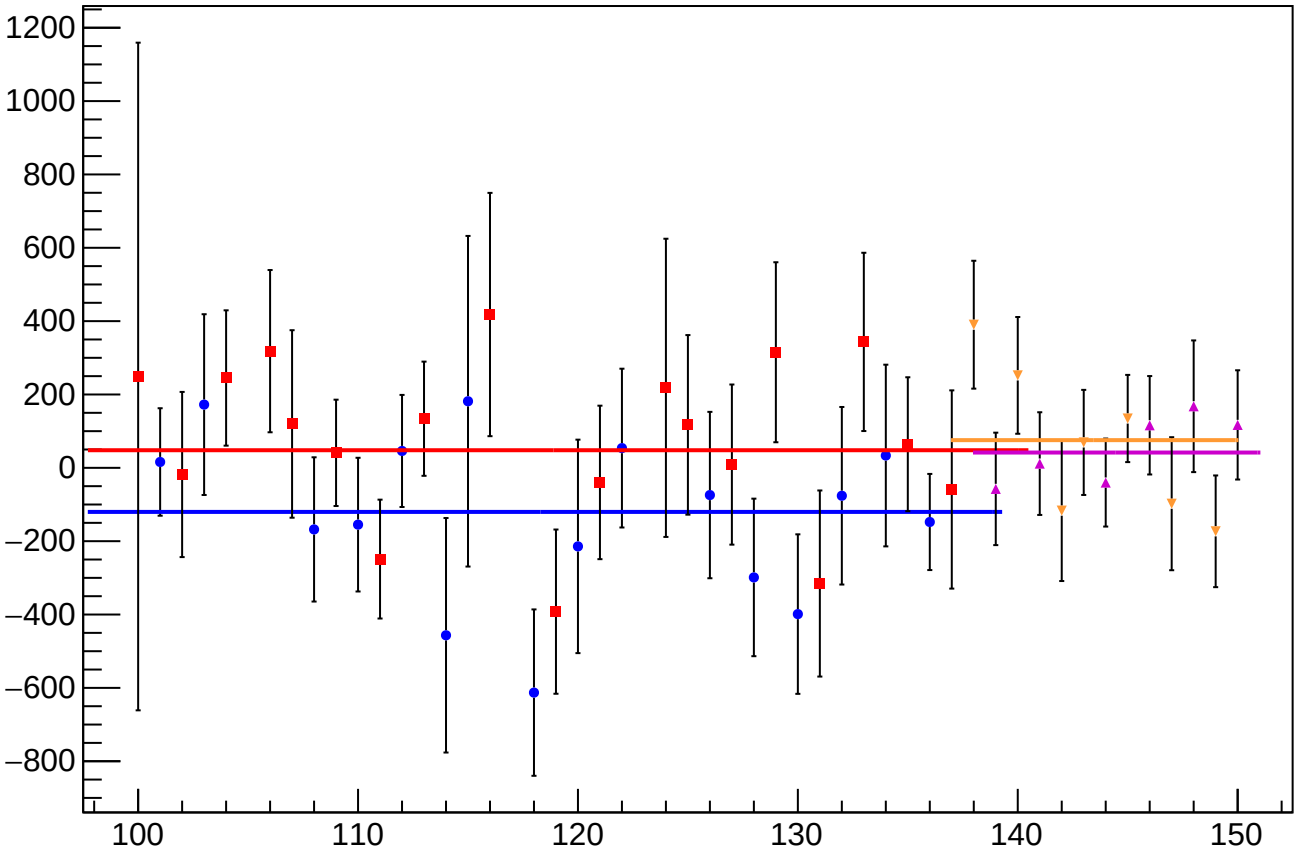
Left: 1035.826+/-0.228 $\chi^2$/NDF: 438584.0/12

Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1154.393+/-0.240 $\chi^2$/NDF:1627661.6/21

Out: 1116.796+/-0.230 $\chi^2$/NDF:1793232.2/25

All: 1134.788+/-0.166 $\chi^2$/NDF: 3433689.1/47




Right In: -120.169+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 75.507+/-58.472 $\chi^2$/NDF:9.3/6

Right Out: 48.013+/-49.919 $\chi^2$/NDF: 17.0/18

Left In: 41.710+/-58.257 $\chi^2$/NDF:2.0/5

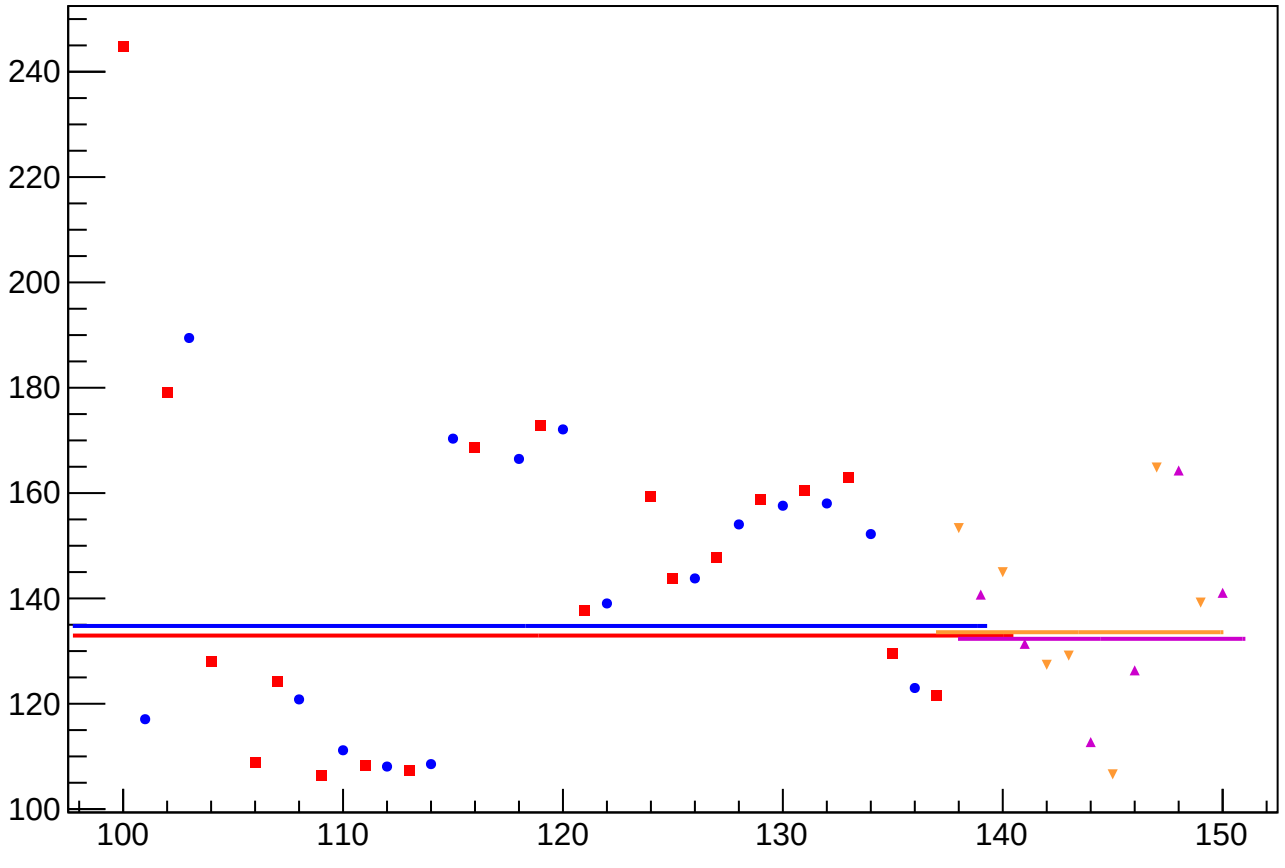
Left: 58.546+/-41.270 $\chi^2$/NDF: 11.5/12

Right: -34.107+/-35.709 $\chi^2$/NDF: 35.9/34

In: -49.774+/-38.417 $\chi^2$/NDF:19.8/21

Out: 59.604+/-37.965 $\chi^2$/NDF:26.4/25

All: 5.562+/-27.004 $\chi^2$/NDF: 50.3/47




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 133.583+/-0.041 $\chi^2$/NDF:205185.5/6

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 132.329+/-0.041 $\chi^2$/NDF:133727.6/5

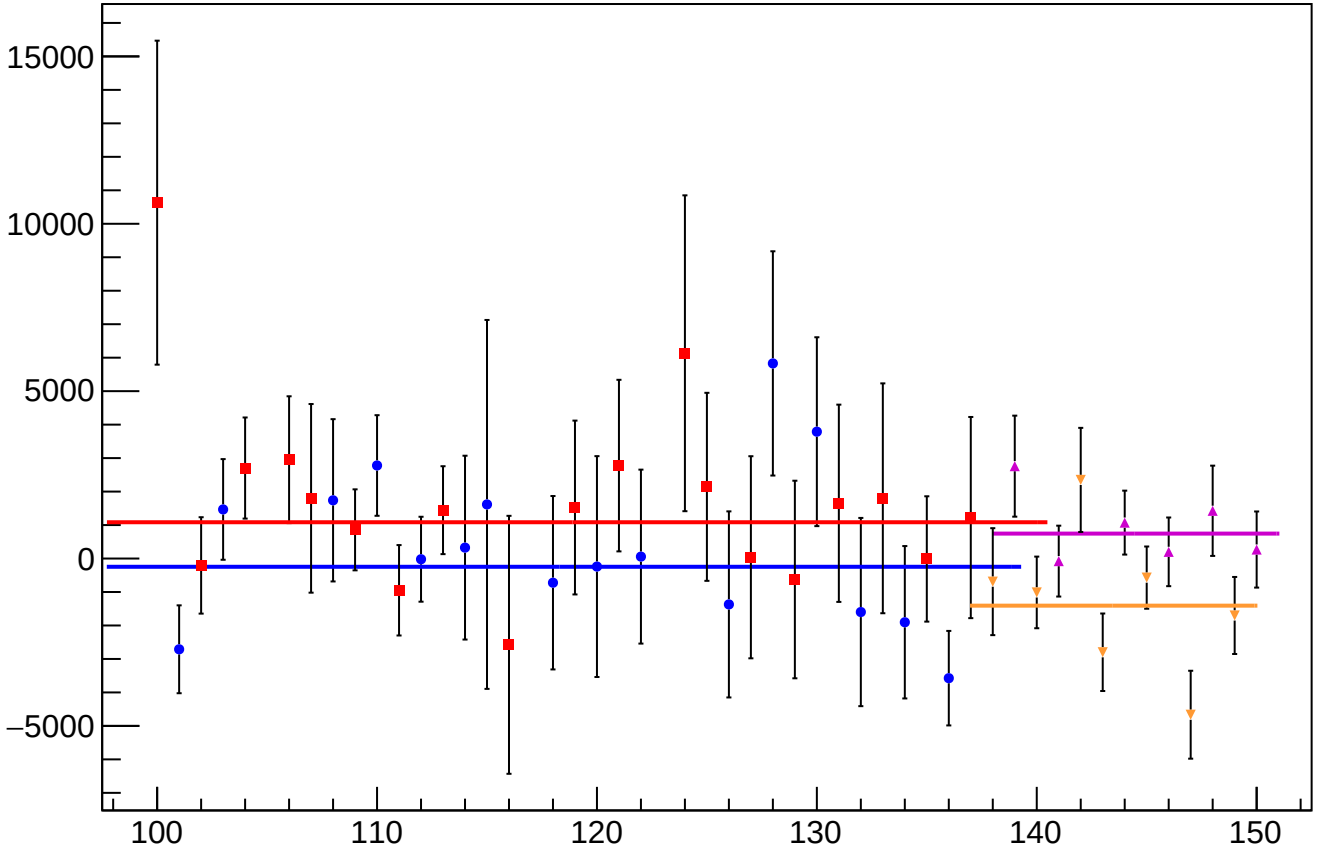
Left: 132.953+/-0.029 $\chi^2$/NDF: 339374.6/12

Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 133.709+/-0.027 $\chi^2$/NDF:552495.8/21

Out: 133.215+/-0.027 $\chi^2$/NDF:704172.9/25

All: 133.459+/-0.019 $\chi^2$/NDF: 1256836.1/47




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -1407.762+/-450.951 $\chi^2$/NDF:14.7/6

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 744.845+/-461.172 $\chi^2$/NDF:3.2/5

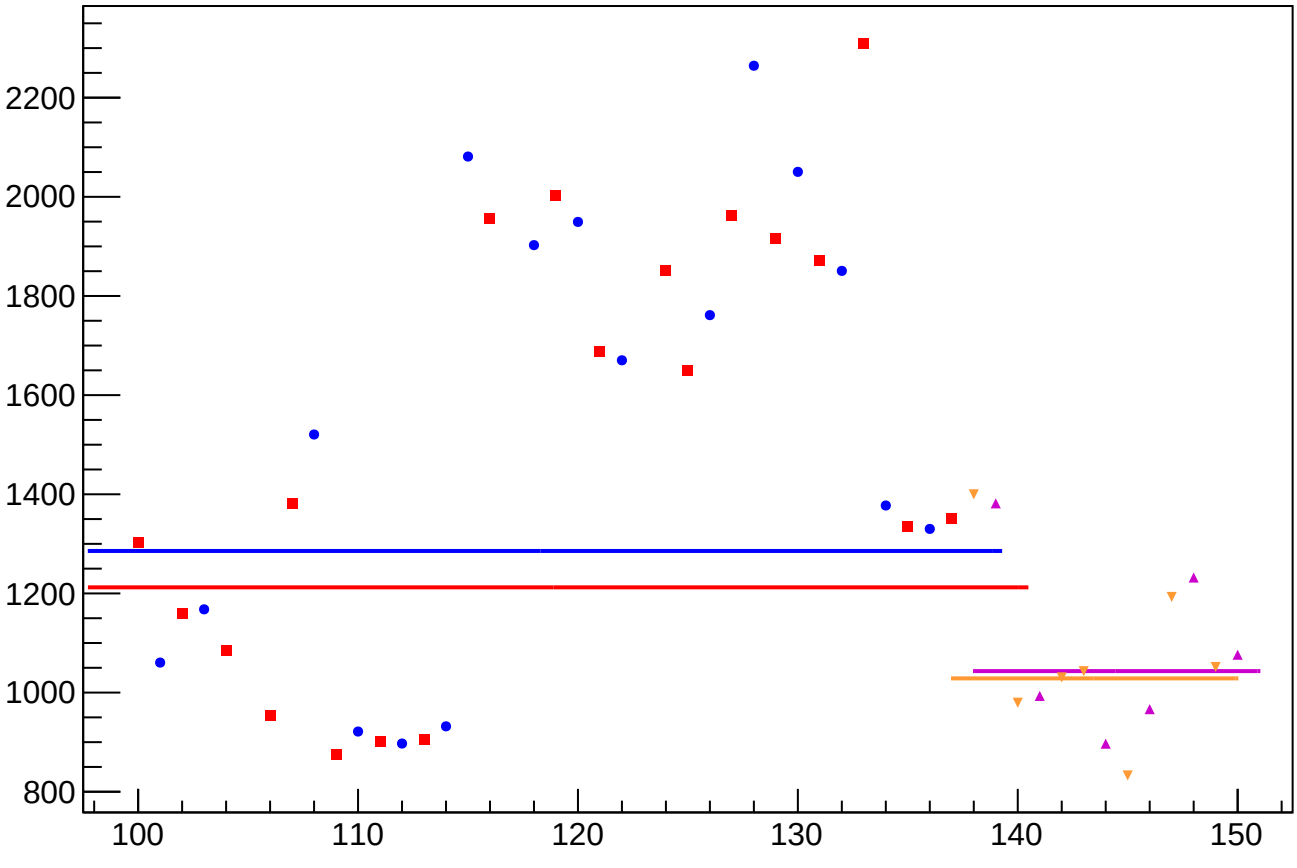
Left: -355.576+/-322.423 $\chi^2$/NDF: 29.0/12

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 290.582+/-339.435 $\chi^2$/NDF:26.9/21

Out: -211.561+/-325.172 $\chi^2$/NDF:42.1/25

All: 28.739+/-234.812 $\chi^2$/NDF: 70.2/47




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 1028.645+/-0.319 $\chi^2$/NDF:233397.6/6

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1043.335+/-0.326 $\chi^2$/NDF:204149.0/5

Left: 1035.826+/-0.228 $\chi^2$/NDF: 438584.0/12

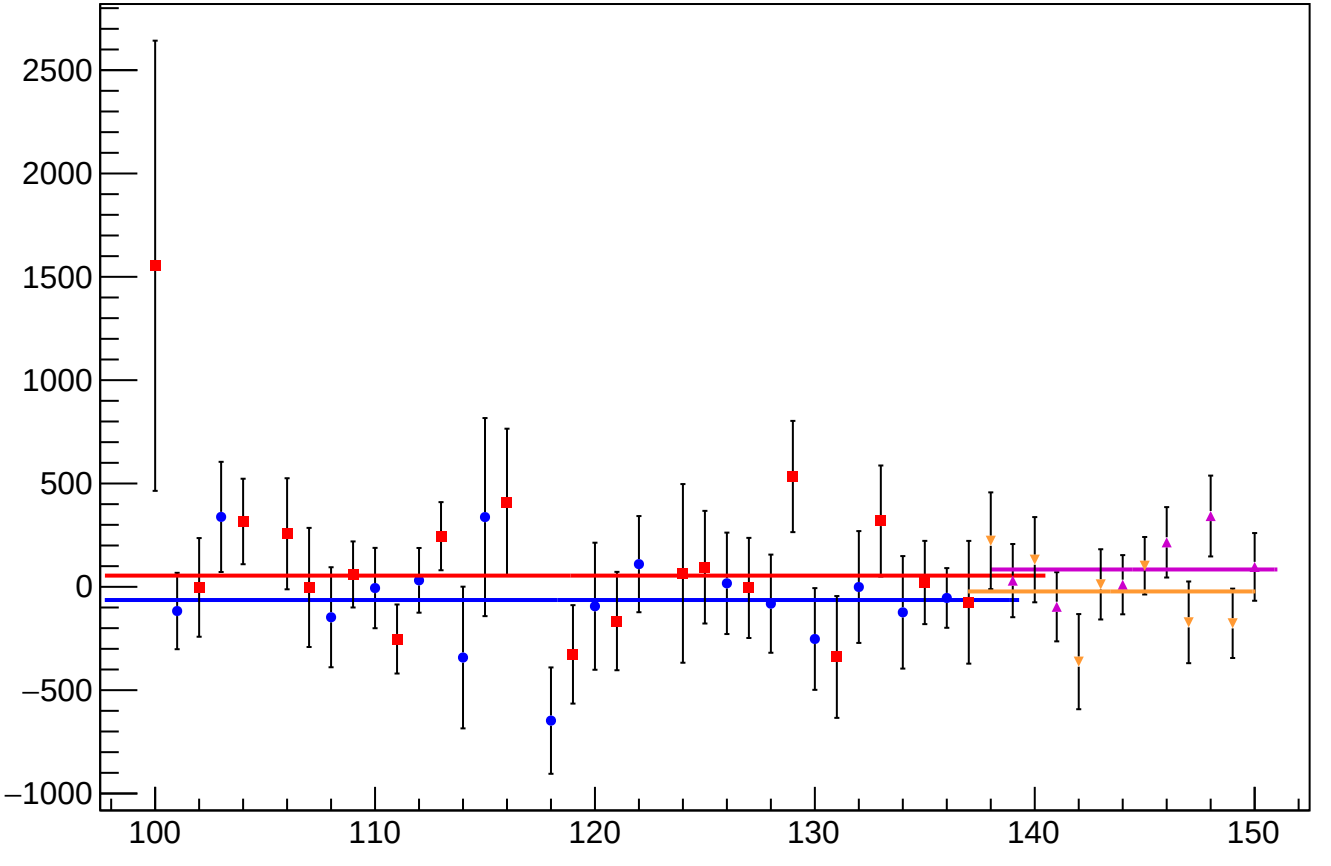
Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1154.393+/-0.240 $\chi^2$/NDF:1627661.6/21

Out: 1116.796+/-0.230 $\chi^2$/NDF:1793232.2/25

All: 1134.788+/-0.166 $\chi^2$/NDF: 3433689.1/47

# dit_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -63.781+/-56.734 $\chi^2$/NDF: 10.8/15

Left Out: -22.315+/-69.324 $\chi^2$/NDF:6.1/6

Right Out: 54.305+/-54.743 $\chi^2$/NDF: 19.5/18

Left In: 83.965+/-68.324 $\chi^2$/NDF:3.9/5

Left: 31.597+/-48.662 $\chi^2$/NDF: 11.2/12

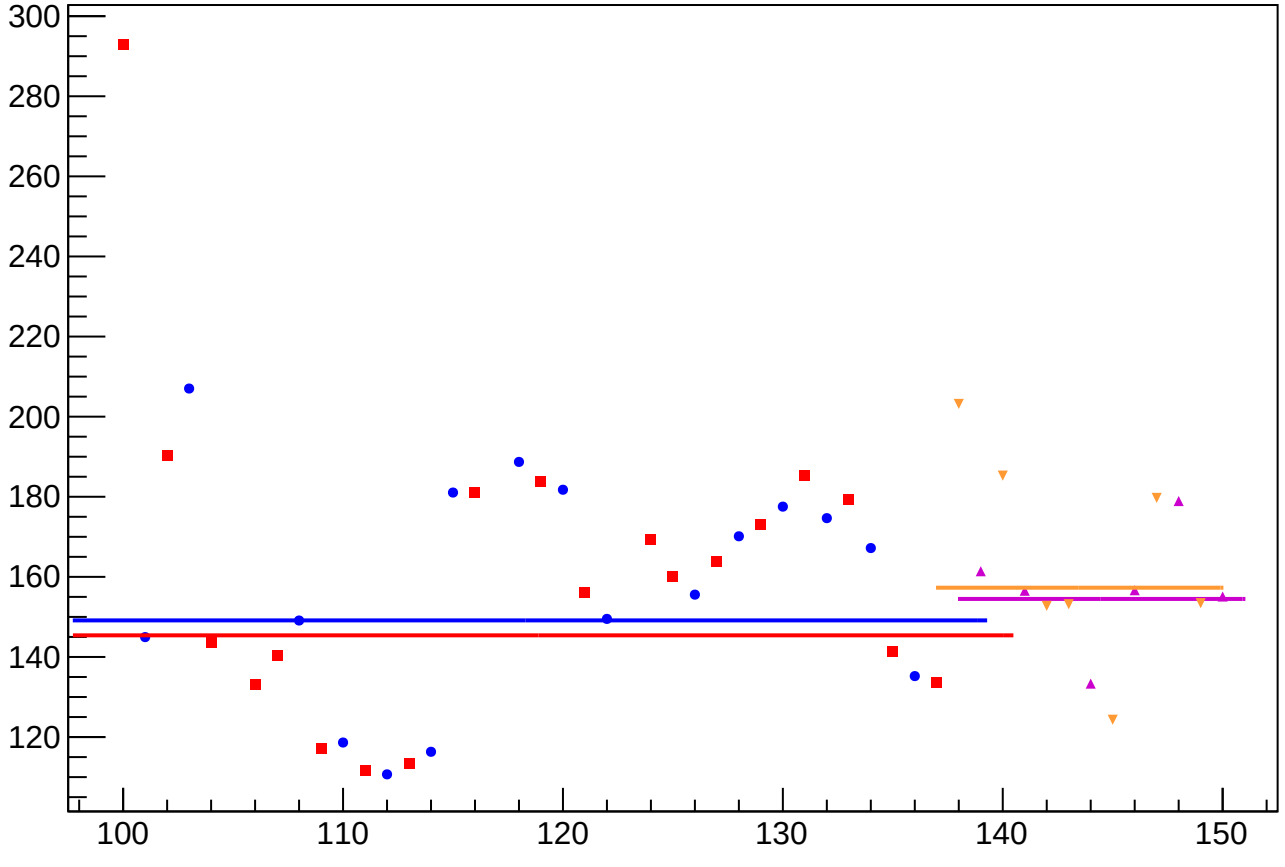
Right: -2.630+/-39.394 $\chi^2$/NDF: 32.6/34

In: -3.485+/-43.648 $\chi^2$/NDF:17.4/21

Out: 24.877+/-42.963 $\chi^2$/NDF:26.4/25

All: 10.921+/-30.618 $\chi^2$/NDF: 44.0/47

# dit_asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451003.6/15

Left Out: 157.295+/-0.049 $\chi^2$/NDF:254903.3/6

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525820.0/18

Left In: 154.489+/-0.048 $\chi^2$/NDF:78520.9/5

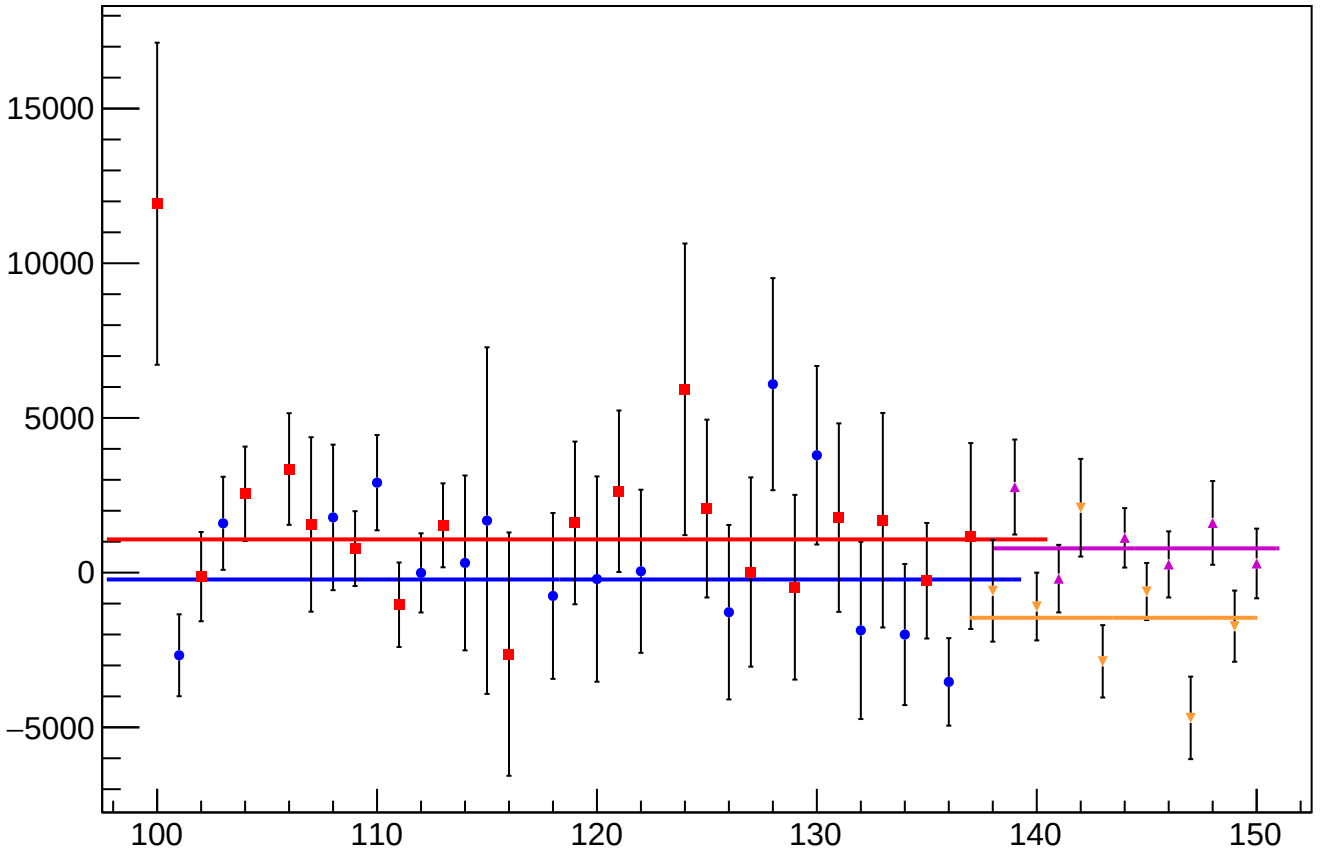
Left: 155.871+/-0.034 $\chi^2$/NDF: 335085.8/12

Right: 147.198+/-0.028 $\chi^2$/NDF: 981303.1/34

In: 151.317+/-0.031 $\chi^2$/NDF:536806.6/21

Out: 149.968+/-0.030 $\chi^2$/NDF:816993.8/25

All: 150.632+/-0.022 $\chi^2$/NDF: 1354771.3/47




Right In: -221.240+/-506.202 $\chi^2$/NDF: 21.9/15

Left Out: -1459.828+/-455.026 $\chi^2$/NDF:13.7/6

Right Out: 1074.433+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 784.031+/-468.491 $\chi^2$/NDF:3.4/5

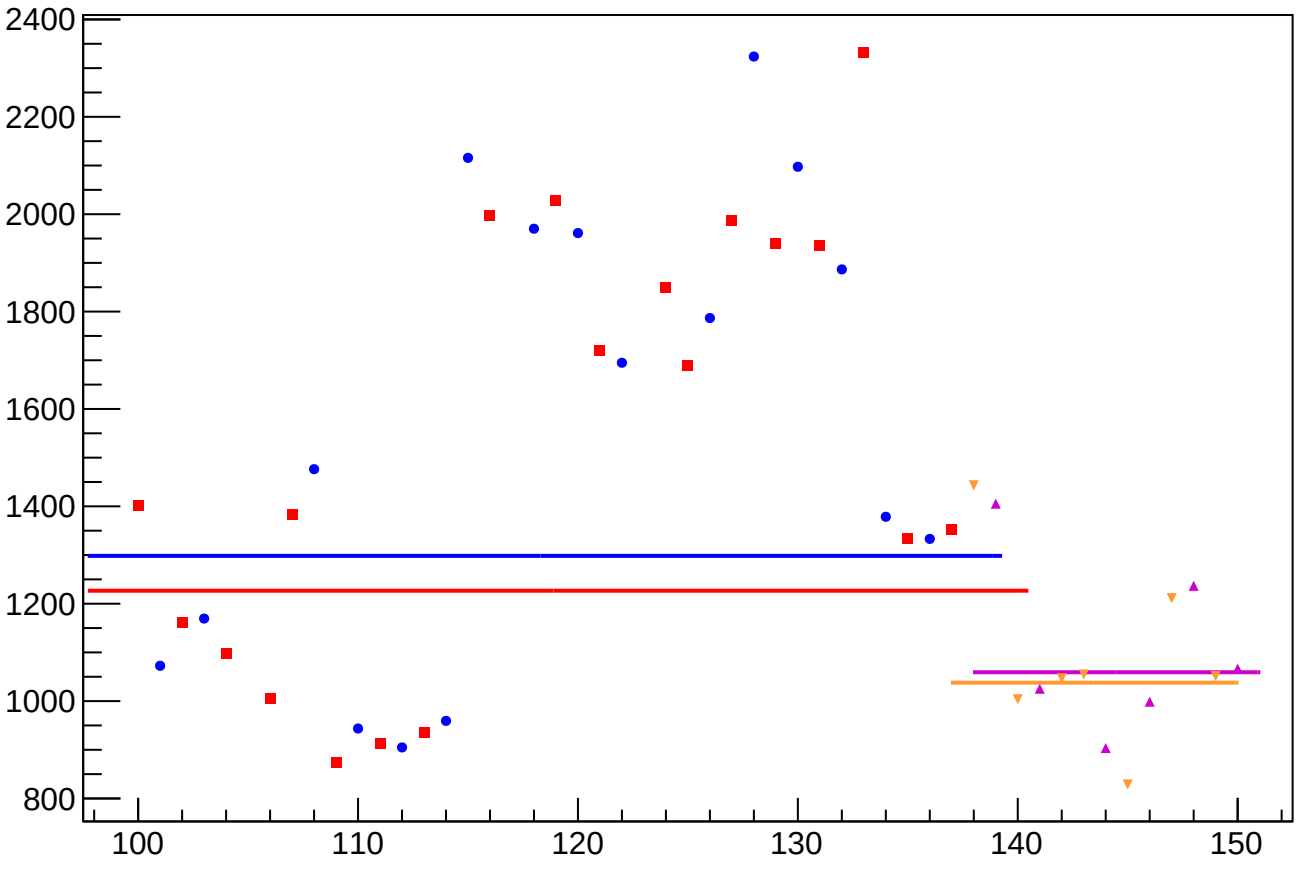
Left: -370.607+/-326.409 $\chi^2$/NDF: 28.9/12

Right: 470.729+/-345.532 $\chi^2$/NDF: 39.0/34

In: 320.231+/-343.833 $\chi^2$/NDF:27.4/21

Out: -241.270+/-327.861 $\chi^2$/NDF:42.2/25

All: 26.136+/-237.278 $\chi^2$/NDF: 71.0/47




Right In: 1298.293+/-0.358 $\chi^2$/NDF: 1182123.0/15

Left Out: 1037.858+/-0.322 $\chi^2$/NDF:261091.4/6

Right Out: 1226.729+/-0.334 $\chi^2$/NDF: 1404521.7/18

Left In: 1059.275+/-0.331 $\chi^2$/NDF:196932.9/5

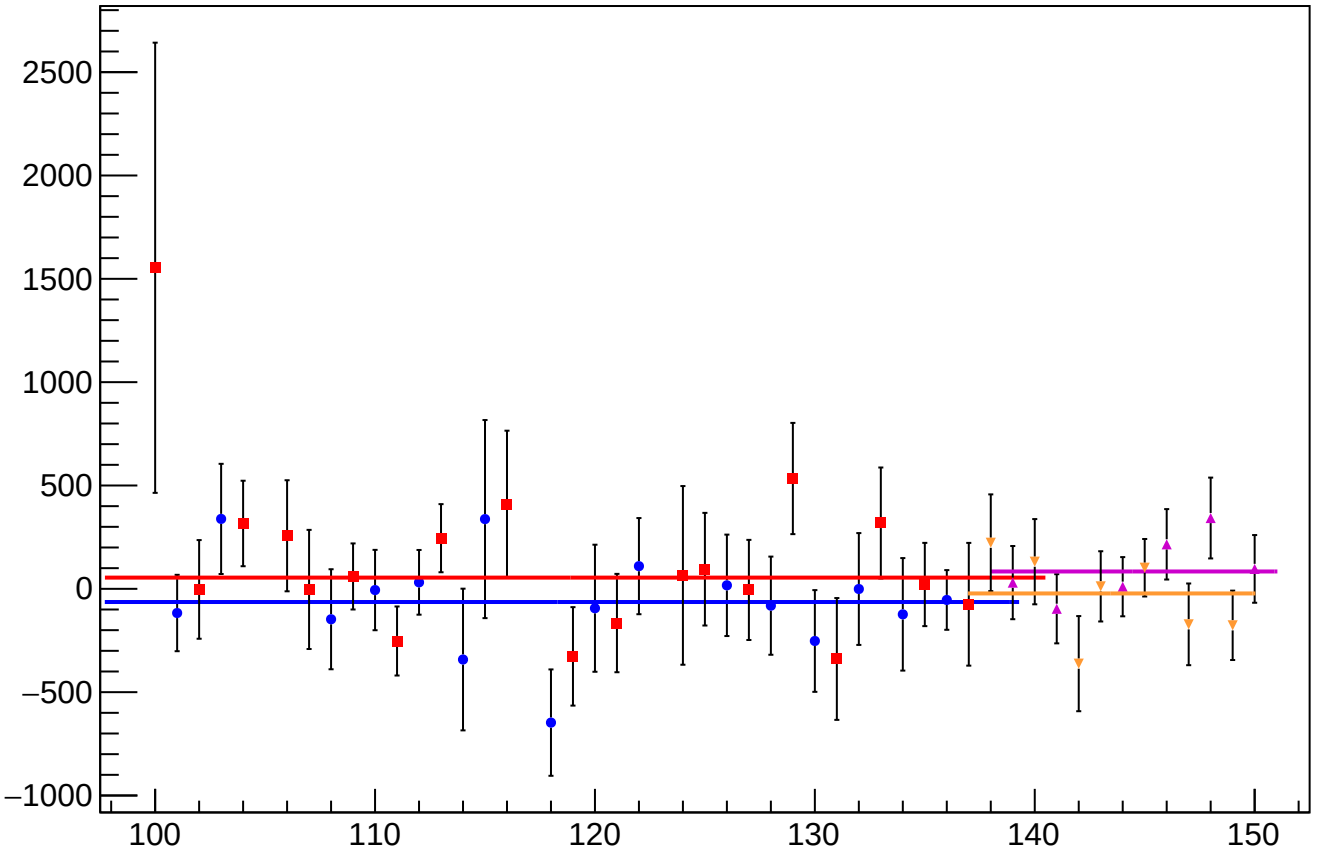
Left: 1048.255+/-0.231 $\chi^2$/NDF: 460175.1/12

Right: 1260.073+/-0.244 $\chi^2$/NDF: 2607993.3/34

In: 1169.551+/-0.243 $\chi^2$/NDF:1619234.8/21

Out: 1128.674+/-0.232 $\chi^2$/NDF:1831296.0/25

All: 1148.141+/-0.168 $\chi^2$/NDF: 3465336.6/47




Right In: -63.778+/-56.734 $\chi^2$/NDF: 10.8/15

Left Out: -22.316+/-69.325 $\chi^2$/NDF:6.1/6

Right Out: 54.304+/-54.743 $\chi^2$/NDF: 19.5/18

Left In: 83.965+/-68.324 $\chi^2$/NDF:3.9/5

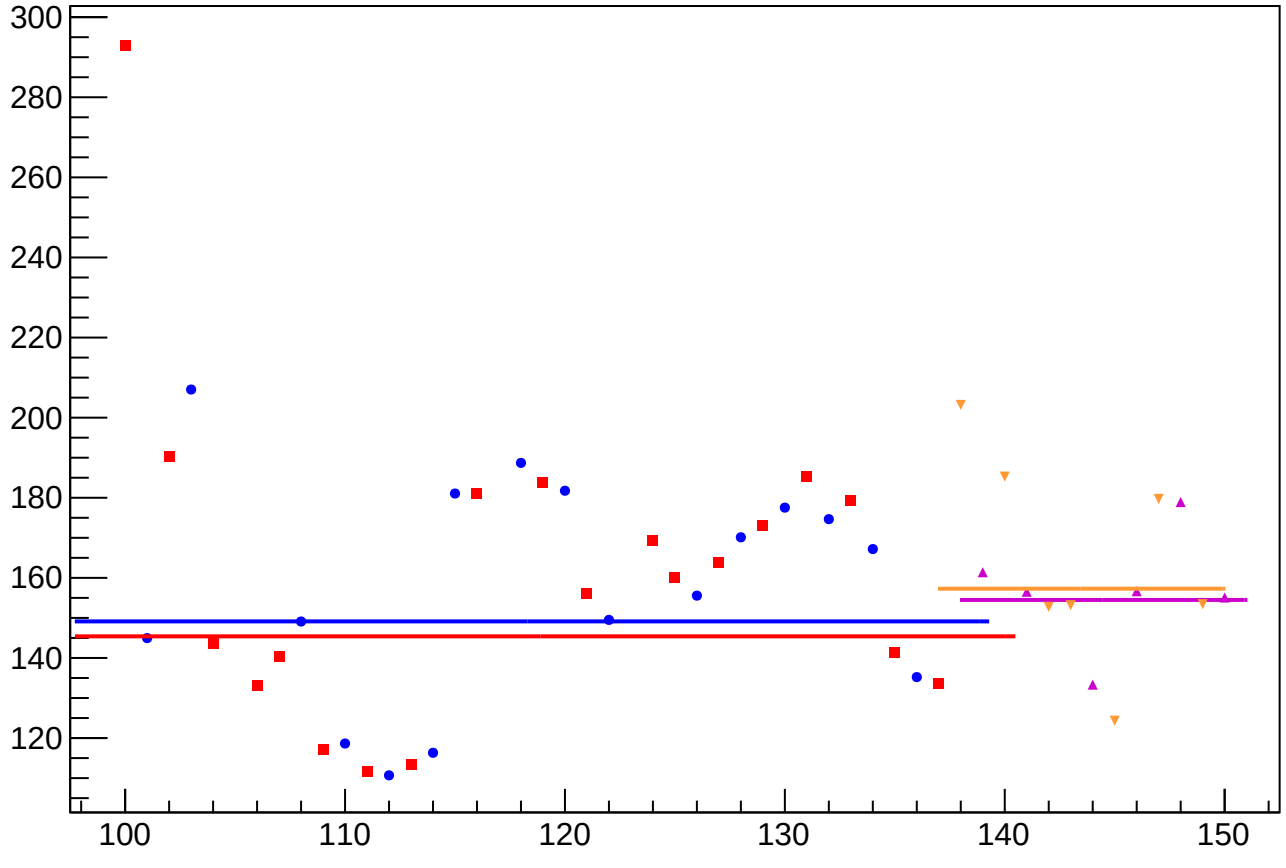
Left: 31.597+/-48.662 $\chi^2$/NDF: 11.2/12

Right: -2.629+/-39.394 $\chi^2$/NDF: 32.6/34

In: -3.483+/-43.648 $\chi^2$/NDF:17.4/21

Out: 24.877+/-42.963 $\chi^2$/NDF:26.4/25

All: 10.921+/-30.619 $\chi^2$/NDF: 44.0/47




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451005.1/15

Left Out: 157.295+/-0.049 $\chi^2$/NDF:254897.3/6

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525822.2/18

Left In: 154.489+/-0.048 $\chi^2$/NDF:78519.3/5

Left: 155.872+/-0.034 $\chi^2$/NDF: 335078.3/12

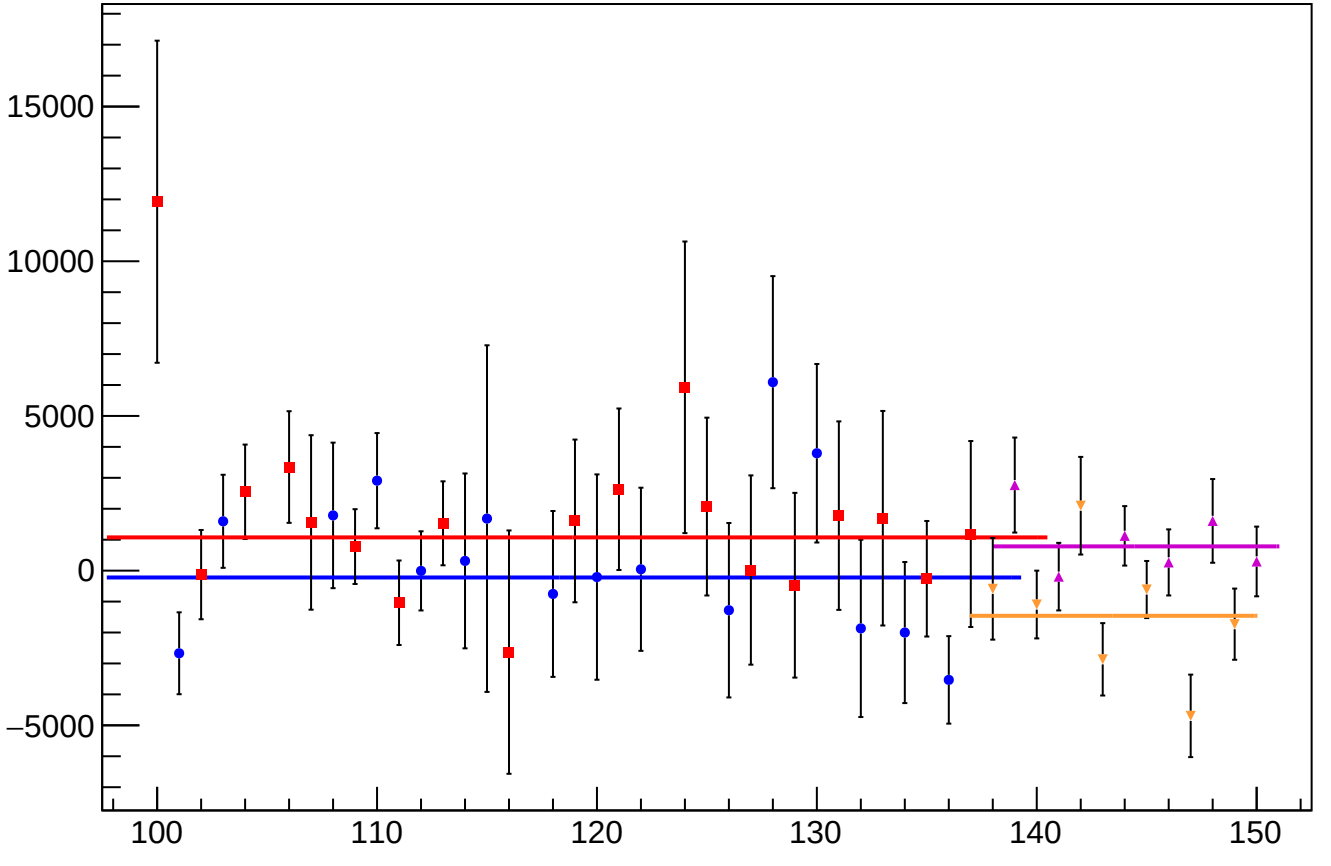
Right: 147.198+/-0.028 $\chi^2$/NDF: 981307.0/34

In: 151.317+/-0.031 $\chi^2$/NDF:536807.5/21

Out: 149.968+/-0.030 $\chi^2$/NDF:816992.9/25

All: 150.632+/-0.022 $\chi^2$/NDF: 1354771.2/47

asym_sam_48_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -221.239+/-506.201 $\chi^2$/NDF: 21.9/15

Left Out: -1459.827+/-455.026 $\chi^2$/NDF:13.7/6

Right Out: 1074.432+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 784.031+/-468.491 $\chi^2$/NDF:3.4/5

Left: -370.607+/-326.408 $\chi^2$/NDF: 28.9/12

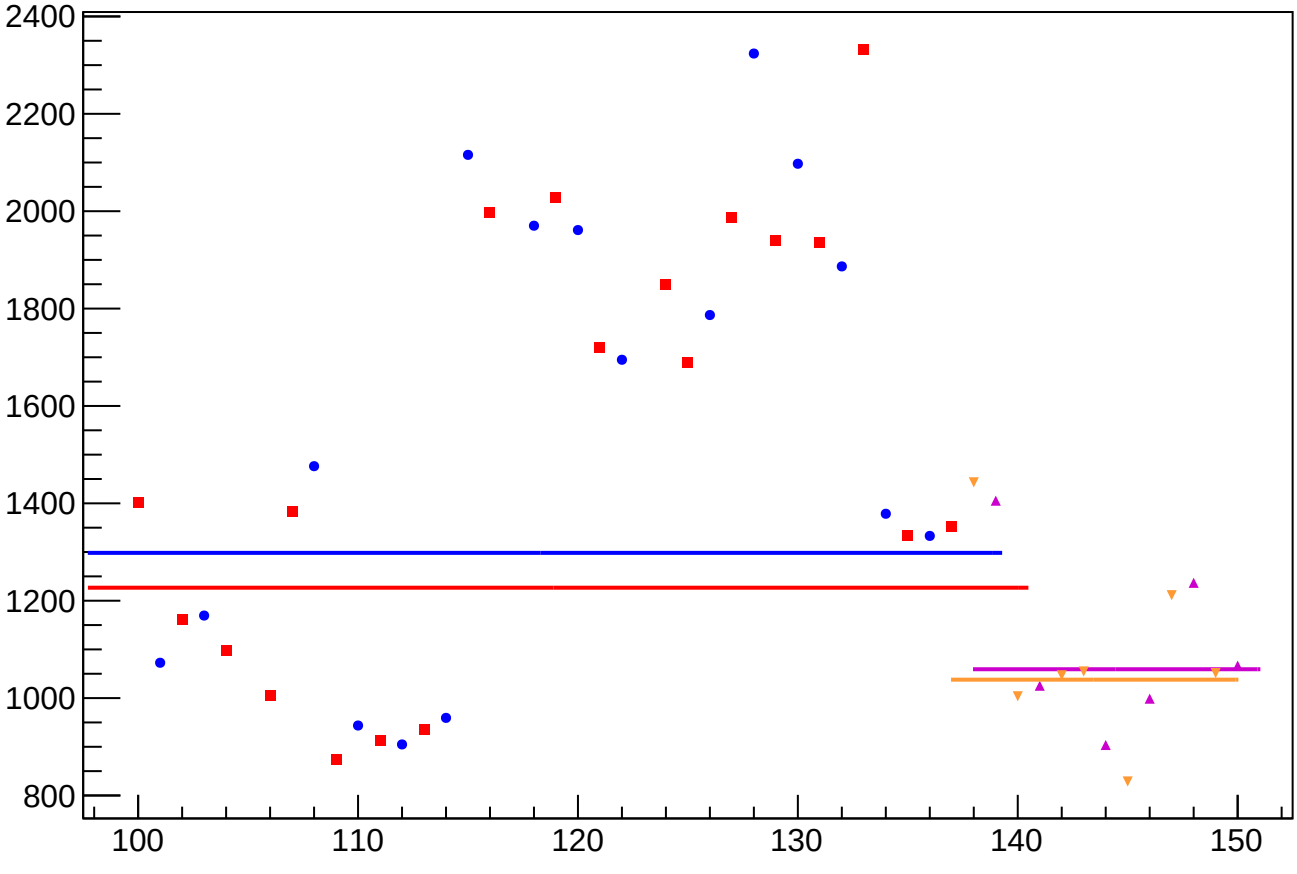
Right: 470.728+/-345.531 $\chi^2$/NDF: 39.0/34

In: 320.231+/-343.833 $\chi^2$/NDF:27.4/21

Out: -241.271+/-327.861 $\chi^2$/NDF:42.2/25

All: 26.136+/-237.278 $\chi^2$/NDF: 71.0/47

asym_sam_48_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1298.292+/-0.358 $\chi^2$/NDF: 1182127.2/15

Left Out: 1037.857+/-0.322 $\chi^2$/NDF:261093.7/6

Right Out: 1226.727+/-0.334 $\chi^2$/NDF: 1404524.7/18

Left In: 1059.275+/-0.331 $\chi^2$/NDF:196933.4/5

Left: 1048.254+/-0.231 $\chi^2$/NDF: 460178.1/12

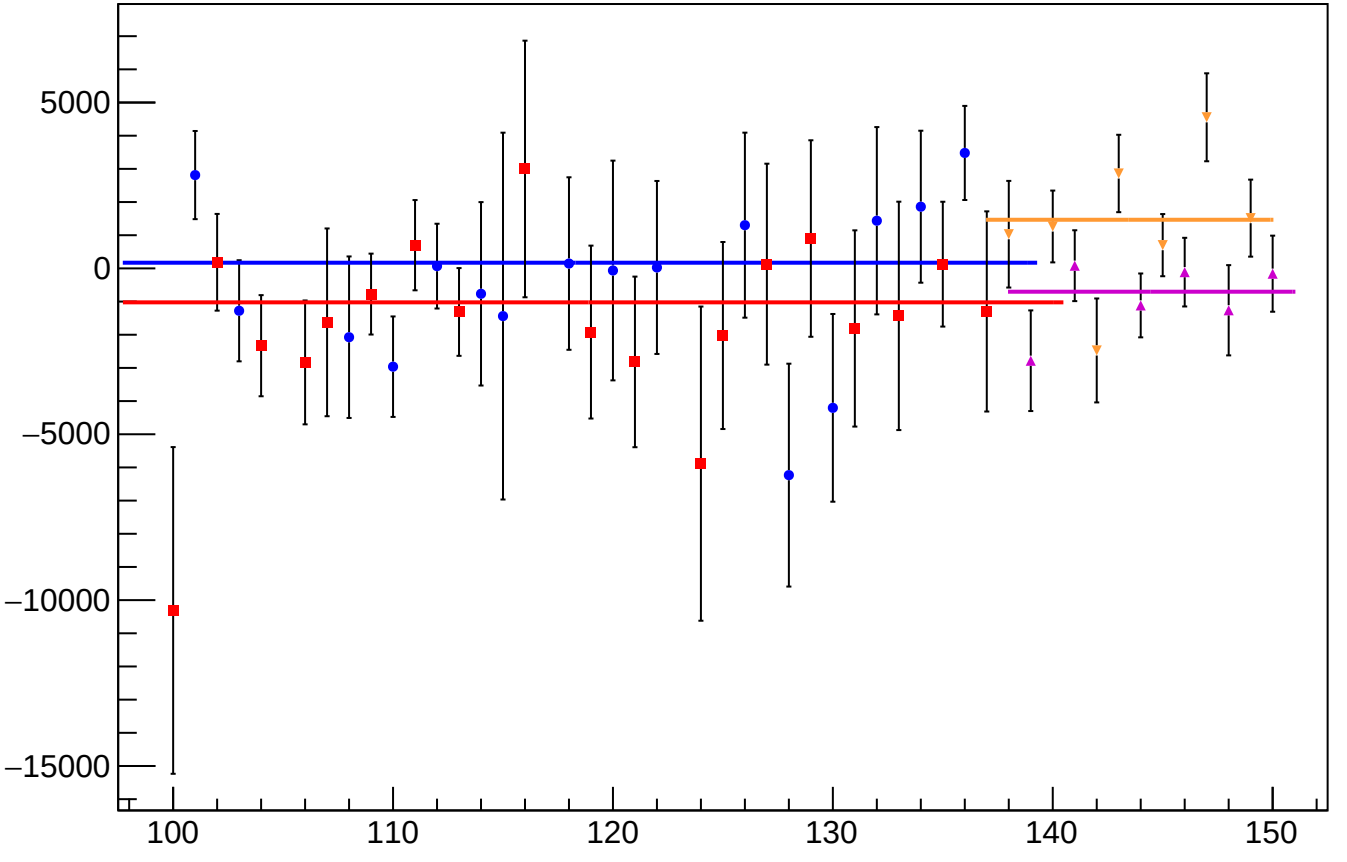
Right: 1260.072+/-0.244 $\chi^2$/NDF: 2608000.5/34

In: 1169.550+/-0.243 $\chi^2$/NDF:1619238.2/21

Out: 1128.672+/-0.232 $\chi^2$/NDF:1831301.8/25

All: 1148.139+/-0.168 $\chi^2$/NDF: 3465346.2/47

# asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: 171.056+/-505.136 $\chi^2$/NDF: 22.6/15

Left Out: 1466.106+/-454.894 $\chi^2$/NDF:14.0/6

Right Out: -1023.699+/-472.008 $\chi^2$/NDF: 11.6/18

Left In: -703.054+/-464.996 $\chi^2$/NDF:3.3/5

Left: 405.344+/-325.171 $\chi^2$/NDF: 28.4/12

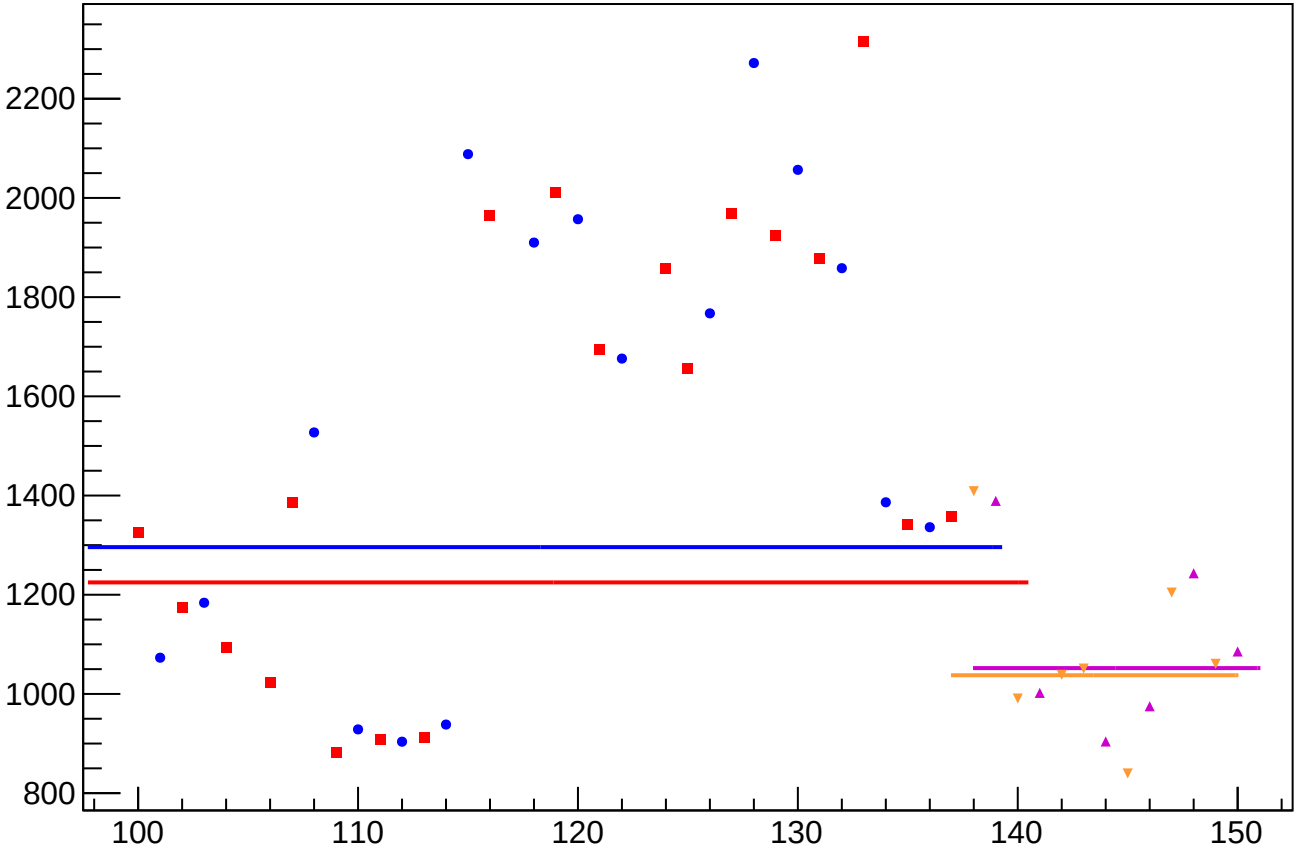
Right: -466.780+/-344.877 $\chi^2$/NDF: 37.1/34

In: -302.104+/-342.113 $\chi^2$/NDF:27.5/21

Out: 267.160+/-327.542 $\chi^2$/NDF:39.9/25

All: -5.091+/-236.591 $\chi^2$/NDF: 68.9/47

# asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 1295.987+/-0.357 $\chi^2$/NDF: 1154185.9/15

Left Out: 1037.729+/-0.322 $\chi^2$/NDF:232255.0/6

Right Out: 1224.872+/-0.334 $\chi^2$/NDF: 1371285.2/18

Left In: 1052.109+/-0.329 $\chi^2$/NDF:202663.0/5

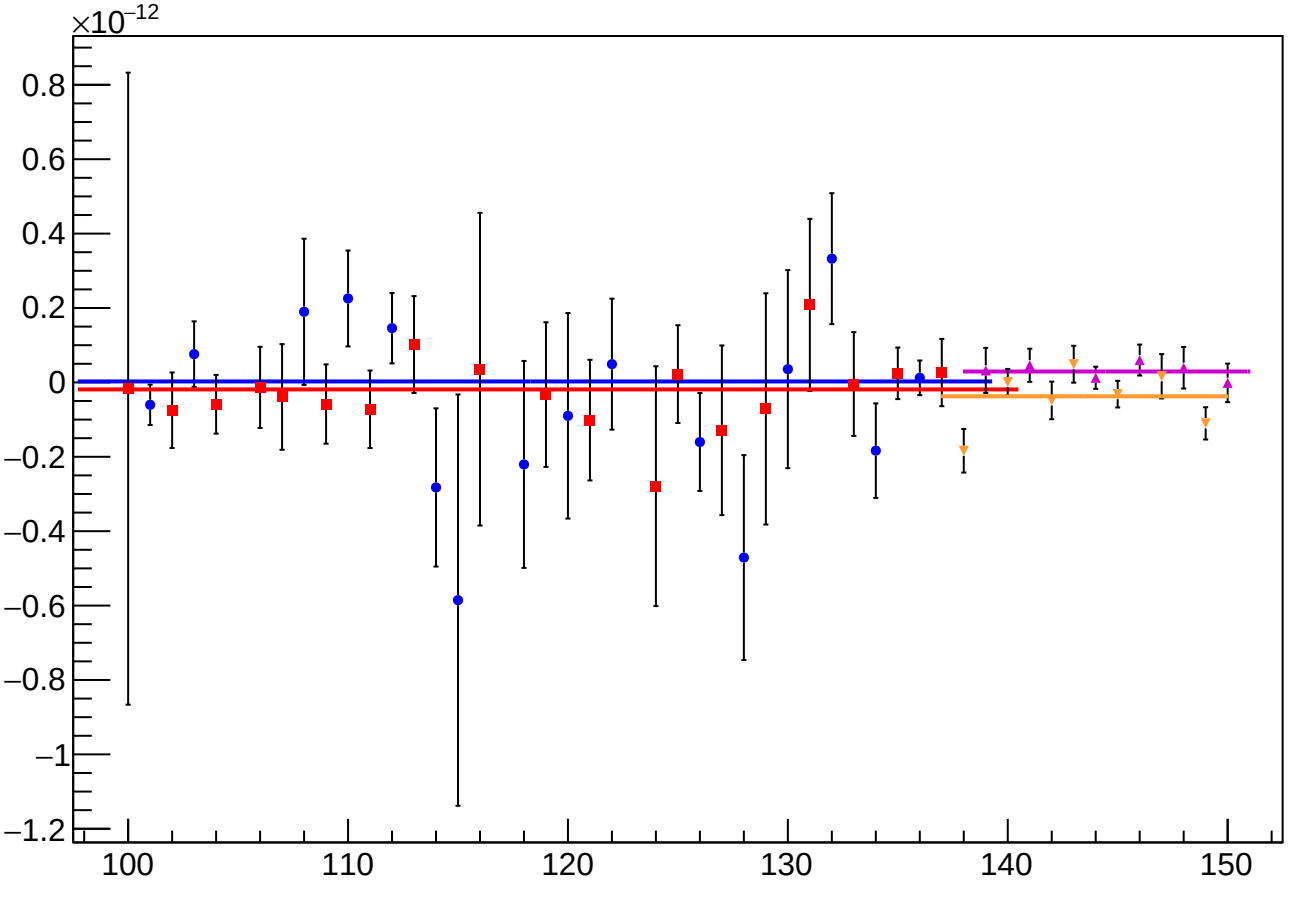
Left: 1044.761+/-0.230 $\chi^2$/NDF: 435895.3/12

Right: 1258.021+/-0.244 $\chi^2$/NDF: 2546633.6/34

In: 1163.974+/-0.242 $\chi^2$/NDF:1609197.8/21

Out: 1127.846+/-0.232 $\chi^2$/NDF:1766541.7/25

All: 1145.124+/-0.167 $\chi^2$/NDF: 3387376.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:14.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 4.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/5

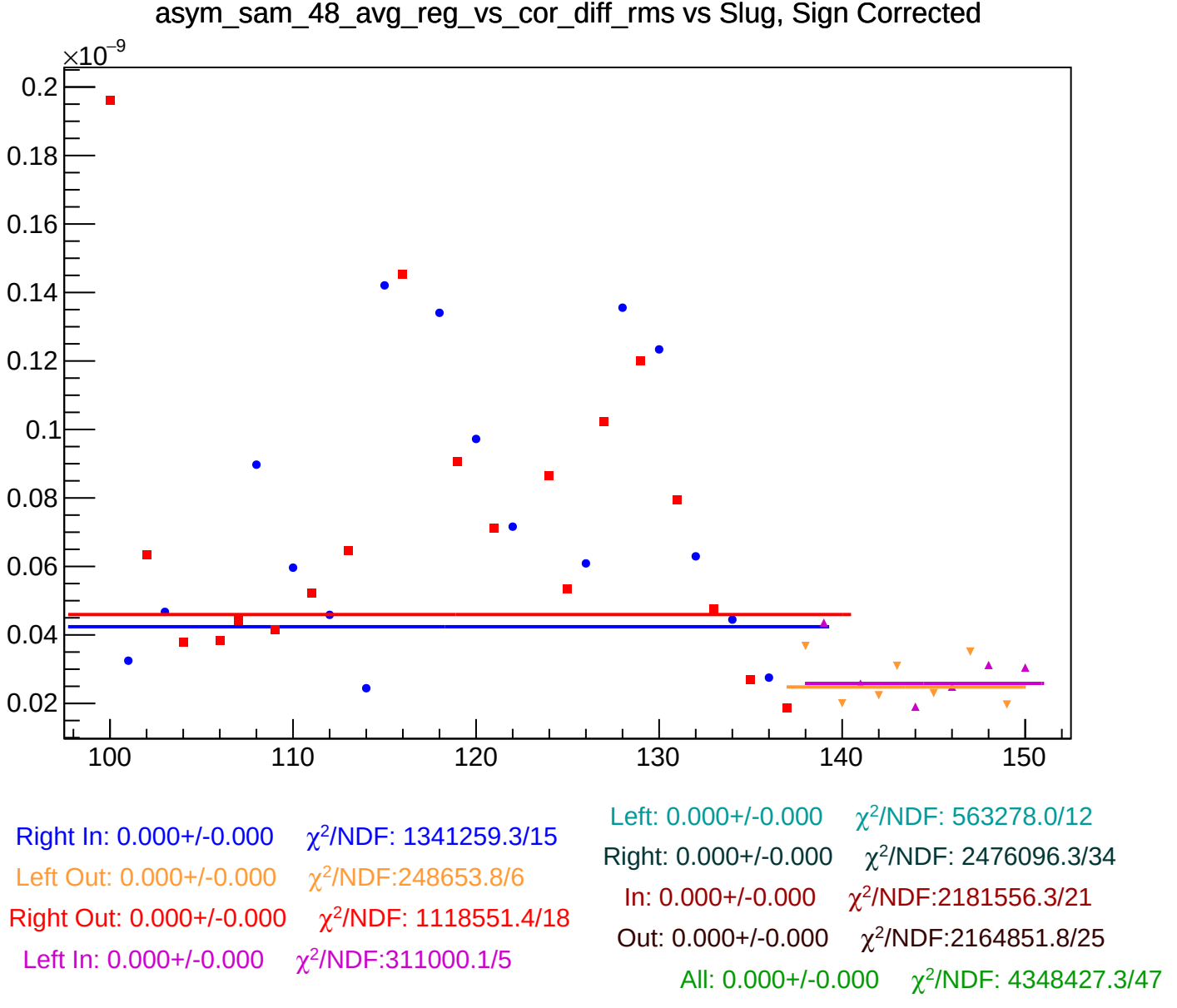
Left: -0.000+/-0.000 $\chi^2$/NDF: 22.9/12

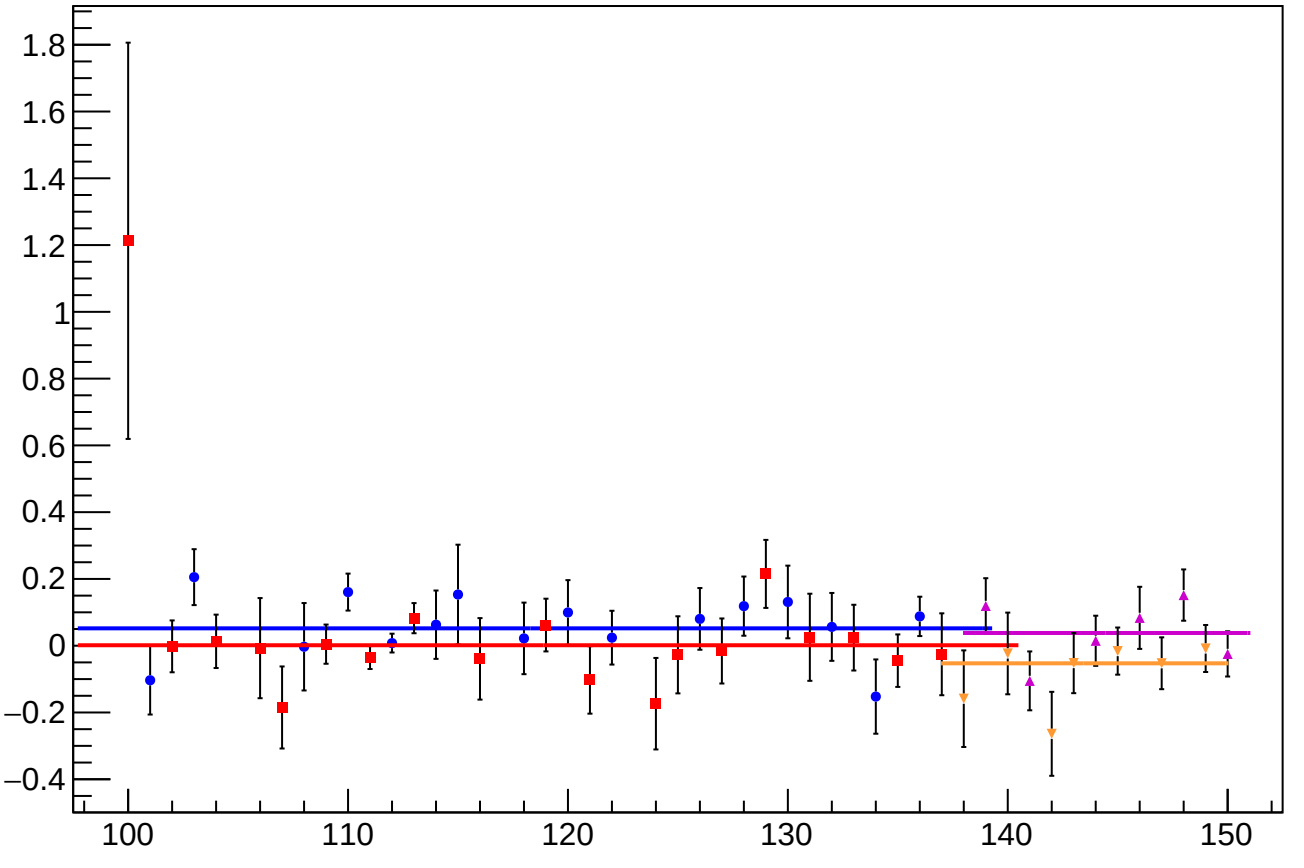
Right: -0.000+/-0.000 $\chi^2$/NDF: 27.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:19.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 50.1/47


asym_sam_48_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1341259.3/15
Left Out: 0.000+/-0.000 χ²/NDF:248653.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 1118551.4/18
Left In: 0.000+/-0.000 χ²/NDF:311000.1/5
Left: 0.000+/-0.000 χ²/NDF: 563278.0/12
Right: 0.000+/-0.000 χ²/NDF: 2476096.3/34
In: 0.000+/-0.000 χ²/NDF:2181556.3/21
Out: 0.000+/-0.000 χ²/NDF:2164851.8/25
All: 0.000+/-0.000 χ²/NDF: 4348427.3/47




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.053+/-0.034 $\chi^2$/NDF:4.1/6

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.038+/-0.032 $\chi^2$/NDF:7.0/5

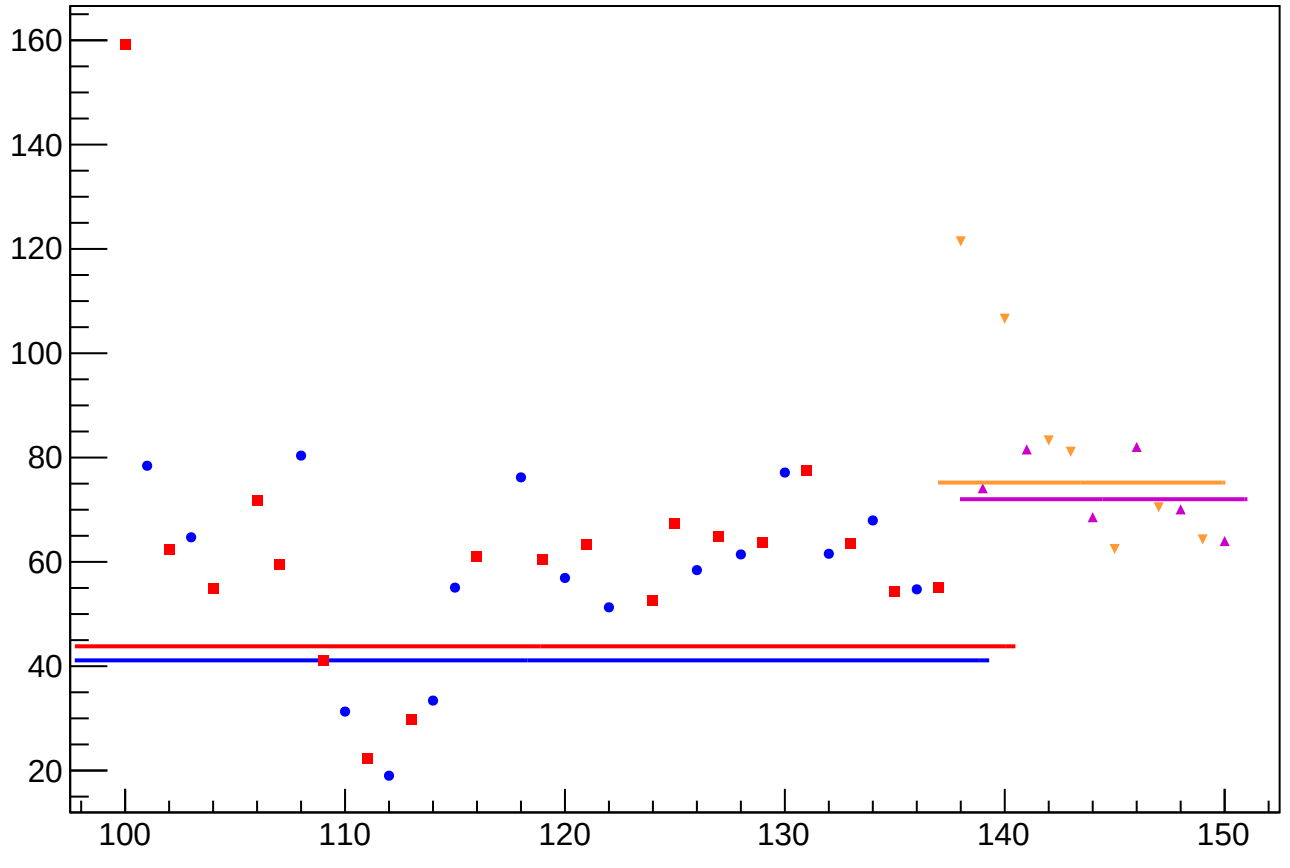
Left: -0.005+/-0.023 $\chi^2$/NDF: 14.8/12

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.049+/-0.016 $\chi^2$/NDF:25.1/21

Out: -0.010+/-0.016 $\chi^2$/NDF:25.3/25

All: 0.020+/-0.011 $\chi^2$/NDF: 57.5/47




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 75.208+/-0.024 $\chi^2$/NDF:473504.4/6

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 72.017+/-0.023 $\chi^2$/NDF:81468.3/5

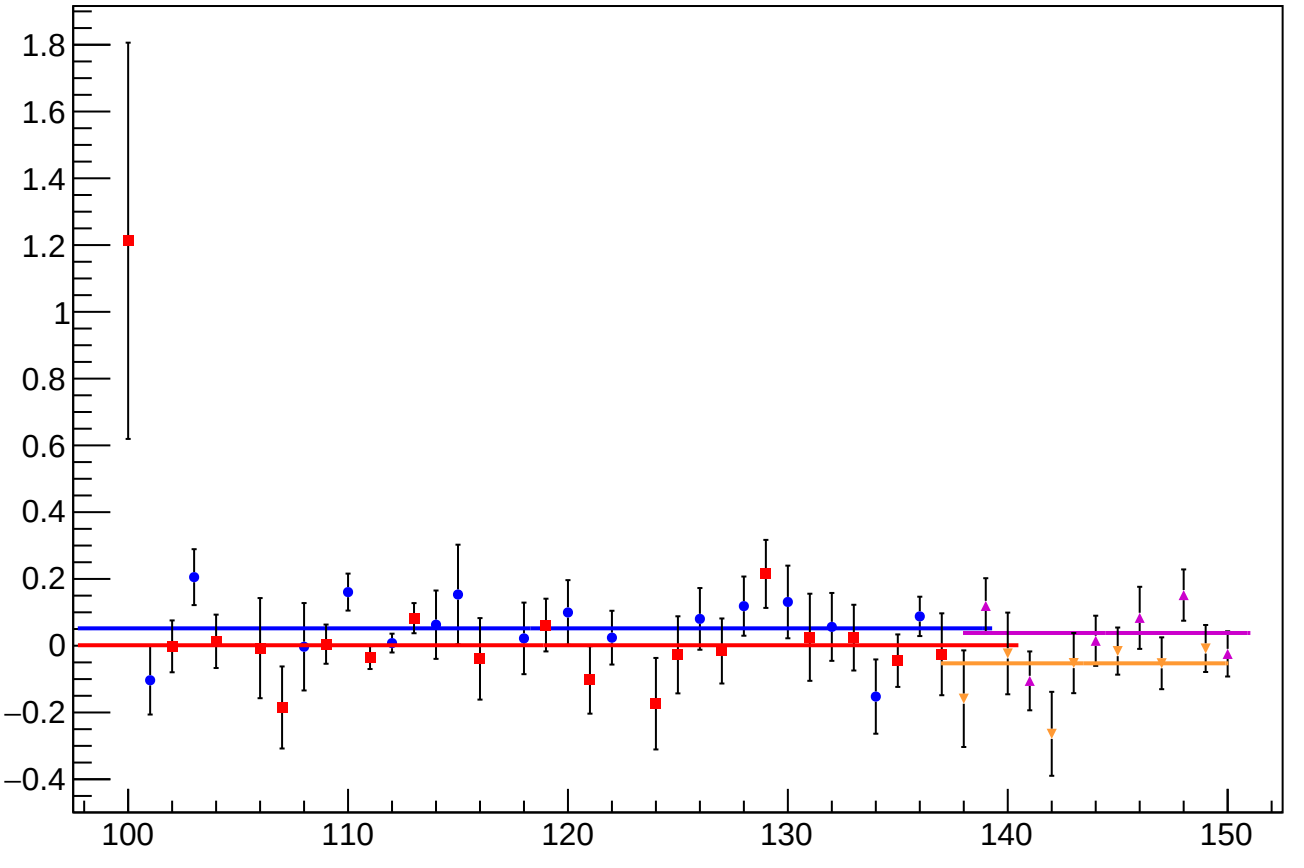
Left: 73.538+/-0.017 $\chi^2$/NDF: 564238.0/12

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 48.276+/-0.011 $\chi^2$/NDF:4406729.3/21

Out: 50.669+/-0.011 $\chi^2$/NDF:3861281.8/25

All: 49.452+/-0.008 $\chi^2$/NDF: 8291202.7/47




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.053+/-0.034 $\chi^2$/NDF:4.1/6

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.038+/-0.032 $\chi^2$/NDF:7.0/5

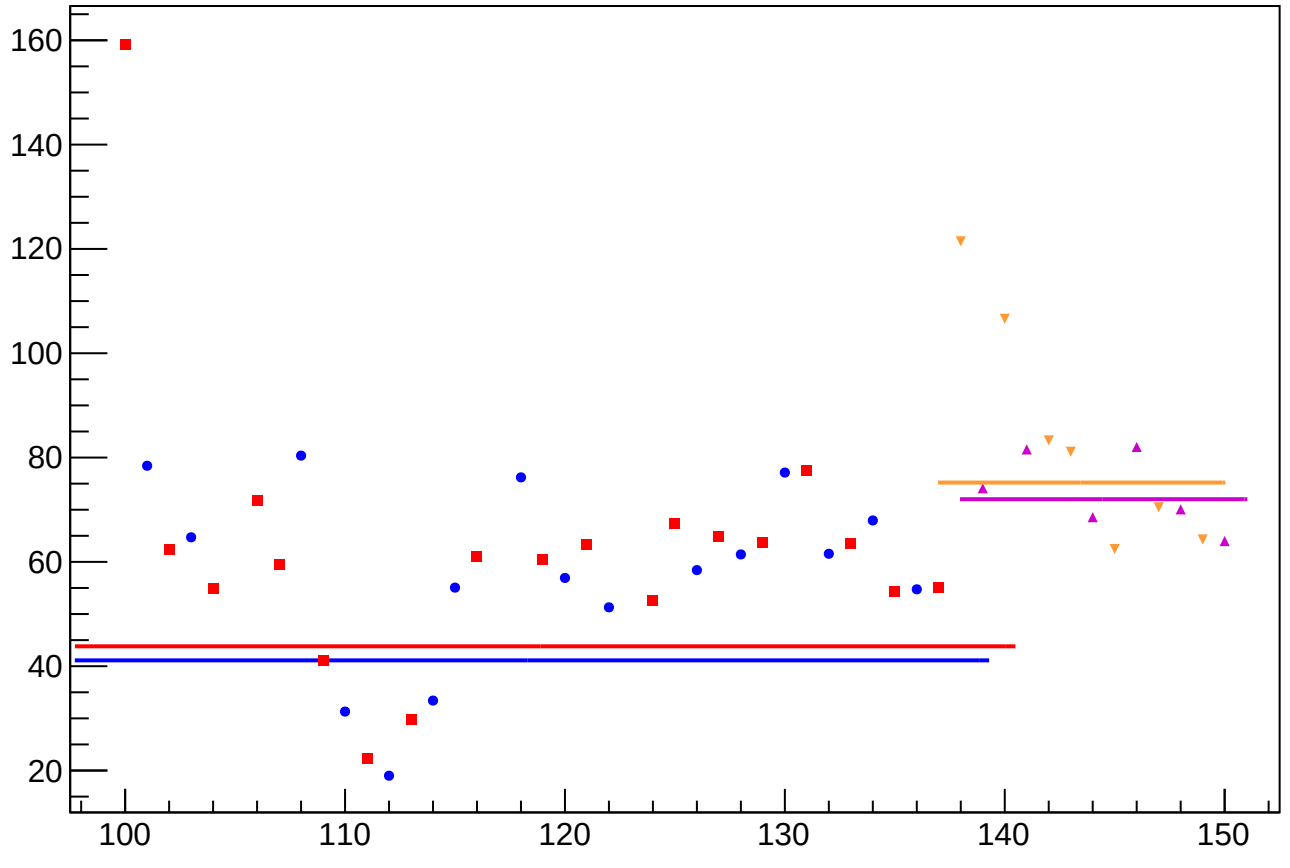
Left: -0.005+/-0.023 $\chi^2$/NDF: 14.8/12

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.049+/-0.016 $\chi^2$/NDF:25.1/21

Out: -0.010+/-0.016 $\chi^2$/NDF:25.3/25

All: 0.020+/-0.011 $\chi^2$/NDF: 57.5/47




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 75.208+/-0.024 $\chi^2$/NDF:473504.4/6

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 72.017+/-0.023 $\chi^2$/NDF:81468.3/5

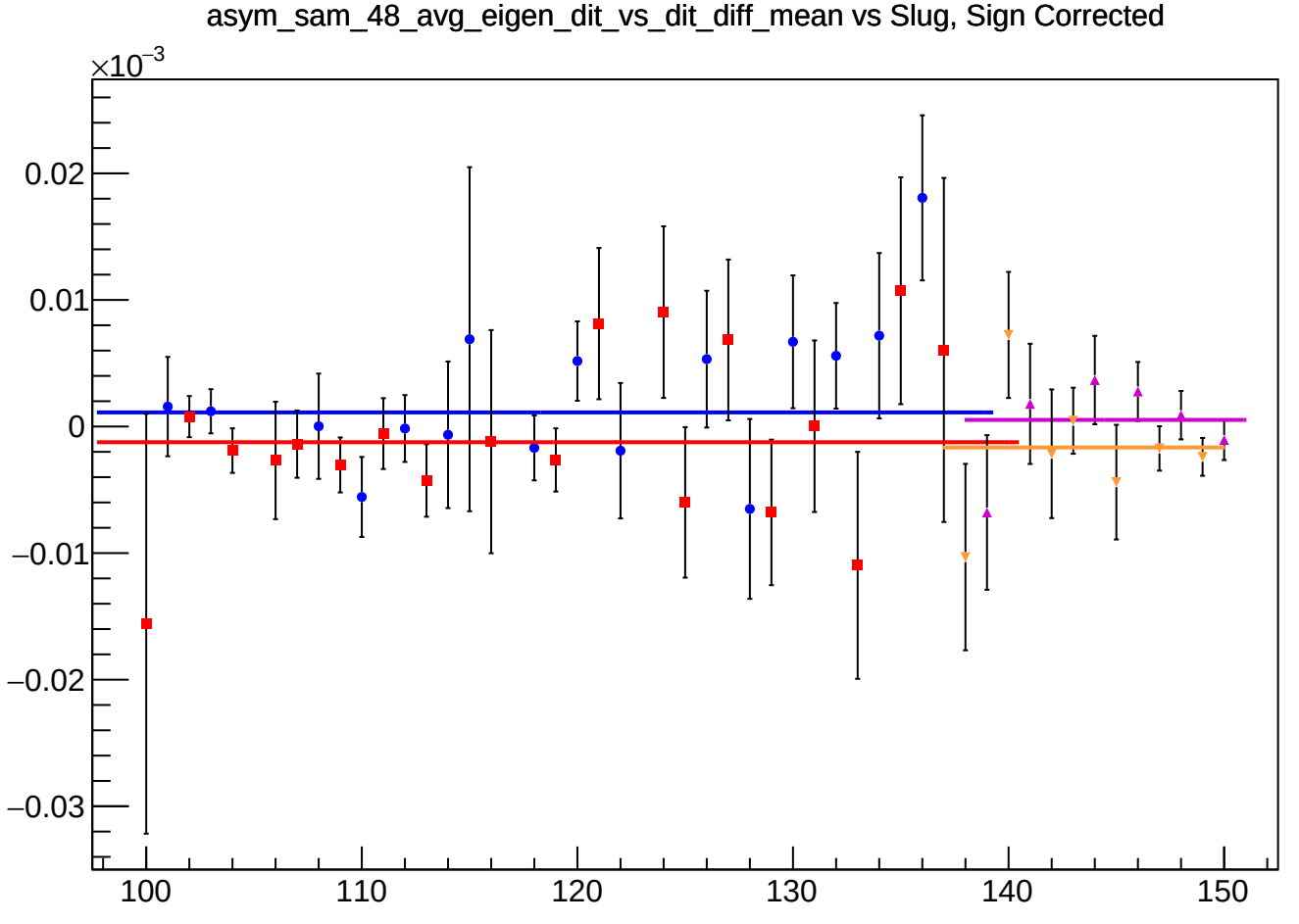
Left: 73.538+/-0.017 $\chi^2$/NDF: 564238.0/12

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 48.276+/-0.011 $\chi^2$/NDF:4406729.3/21

Out: 50.669+/-0.011 $\chi^2$/NDF:3861281.8/25

All: 49.452+/-0.008 $\chi^2$/NDF: 8291202.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.3/5

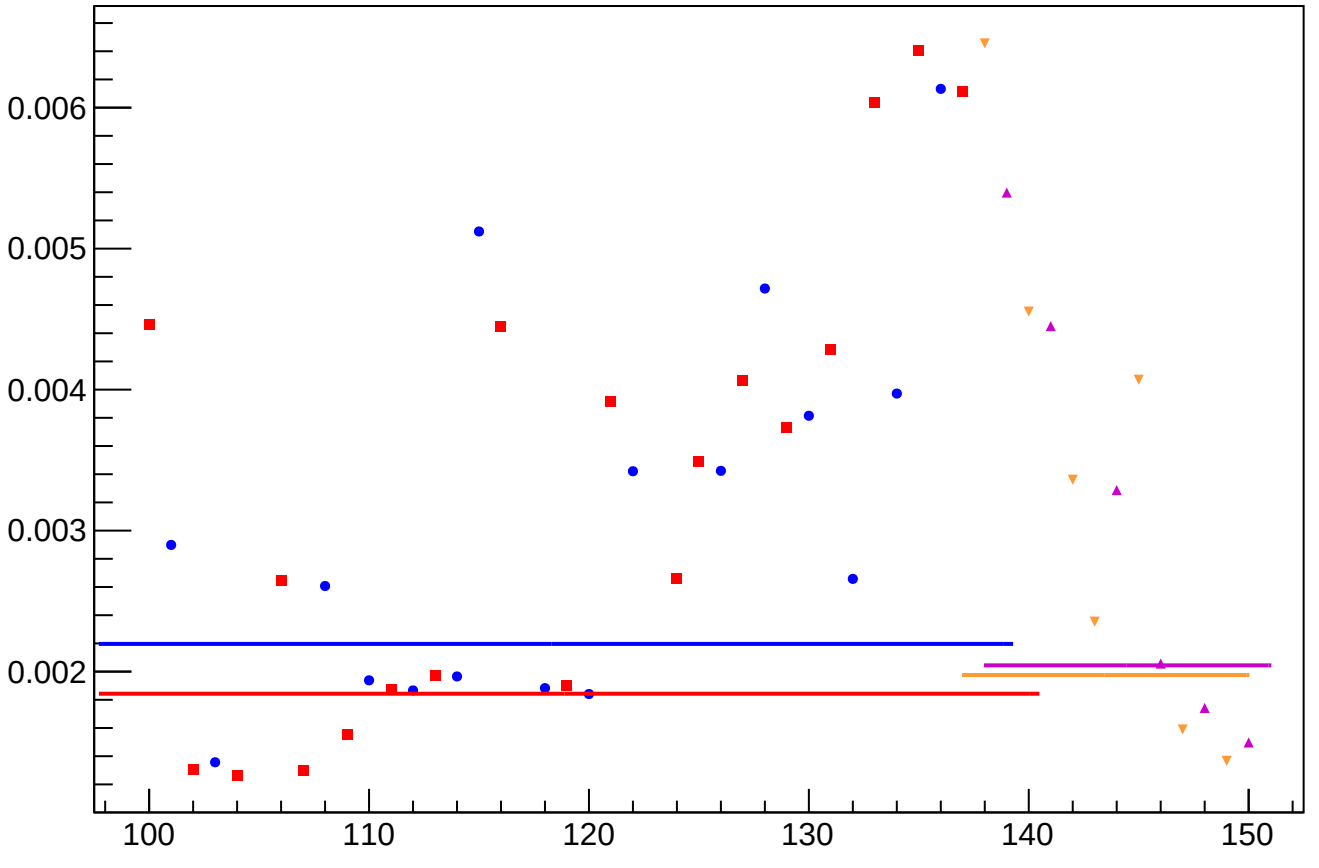
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:21.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 52.5/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2292909.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:2322788.4/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3137598.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1658903.5/5

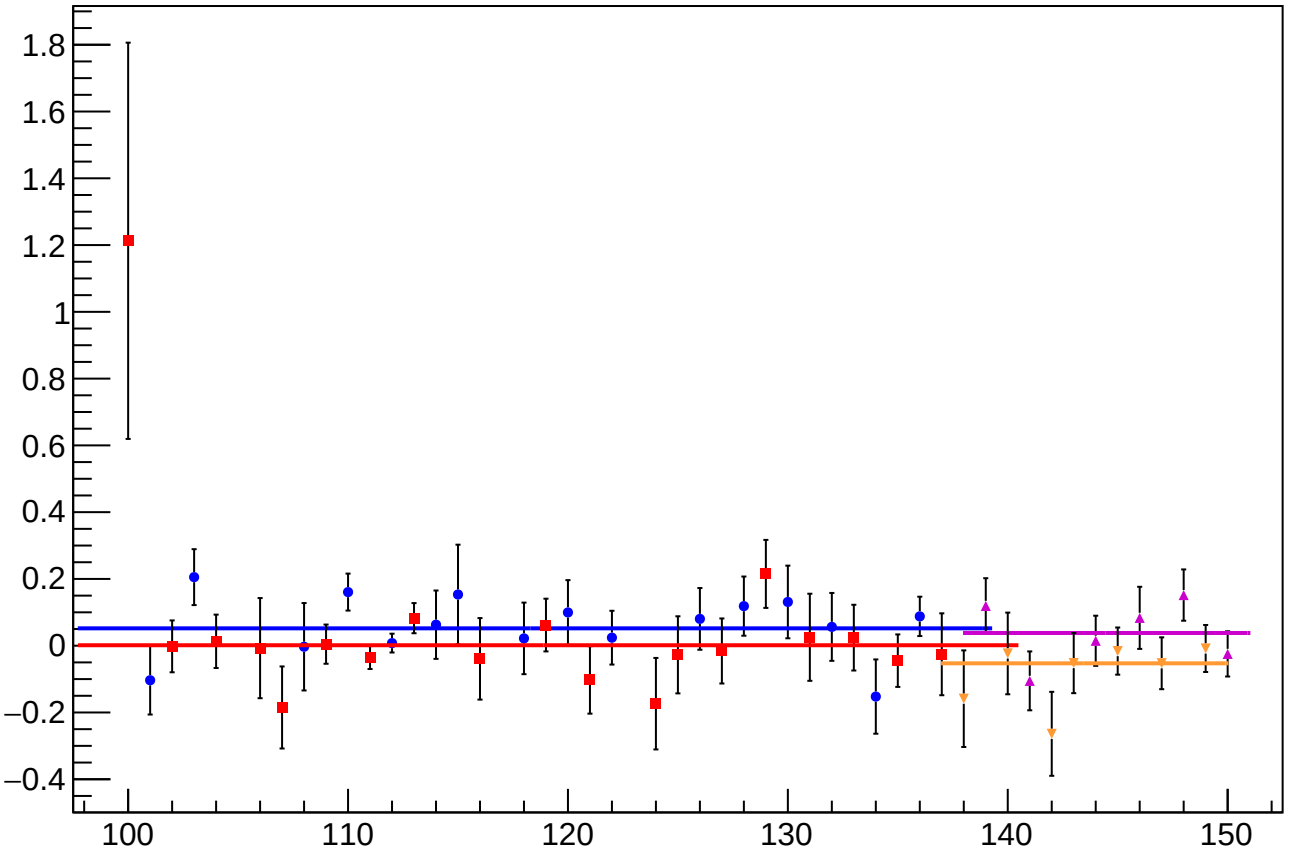
Left: 0.002+/-0.000 $\chi^2$/NDF: 3986583.7/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 5607793.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:3977322.1/21

Out: 0.002+/-0.000 $\chi^2$/NDF:5483449.1/25

All: 0.002+/-0.000 $\chi^2$/NDF: 9595294.5/47




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.053+/-0.034 $\chi^2$/NDF:4.1/6

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.038+/-0.032 $\chi^2$/NDF:7.0/5

Left: -0.005+/-0.023 $\chi^2$/NDF: 14.8/12

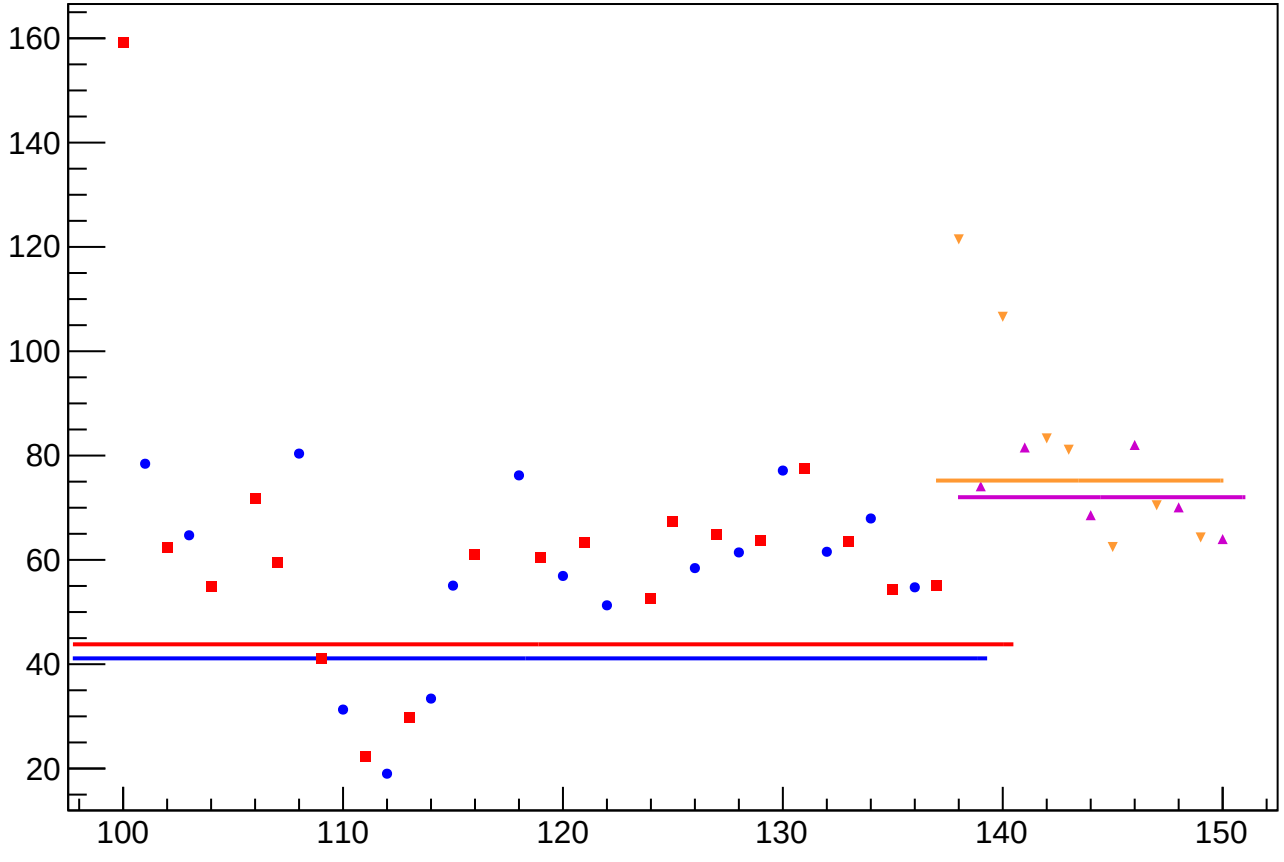
Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.049+/-0.016 $\chi^2$/NDF:25.1/21

Out: -0.010+/-0.016 $\chi^2$/NDF:25.3/25

All: 0.020+/-0.011 $\chi^2$/NDF: 57.5/47

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 75.209+/-0.024 $\chi^2$/NDF:473481.1/6

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 72.017+/-0.023 $\chi^2$/NDF:81471.2/5

Left: 73.539+/-0.017 $\chi^2$/NDF: 564219.1/12

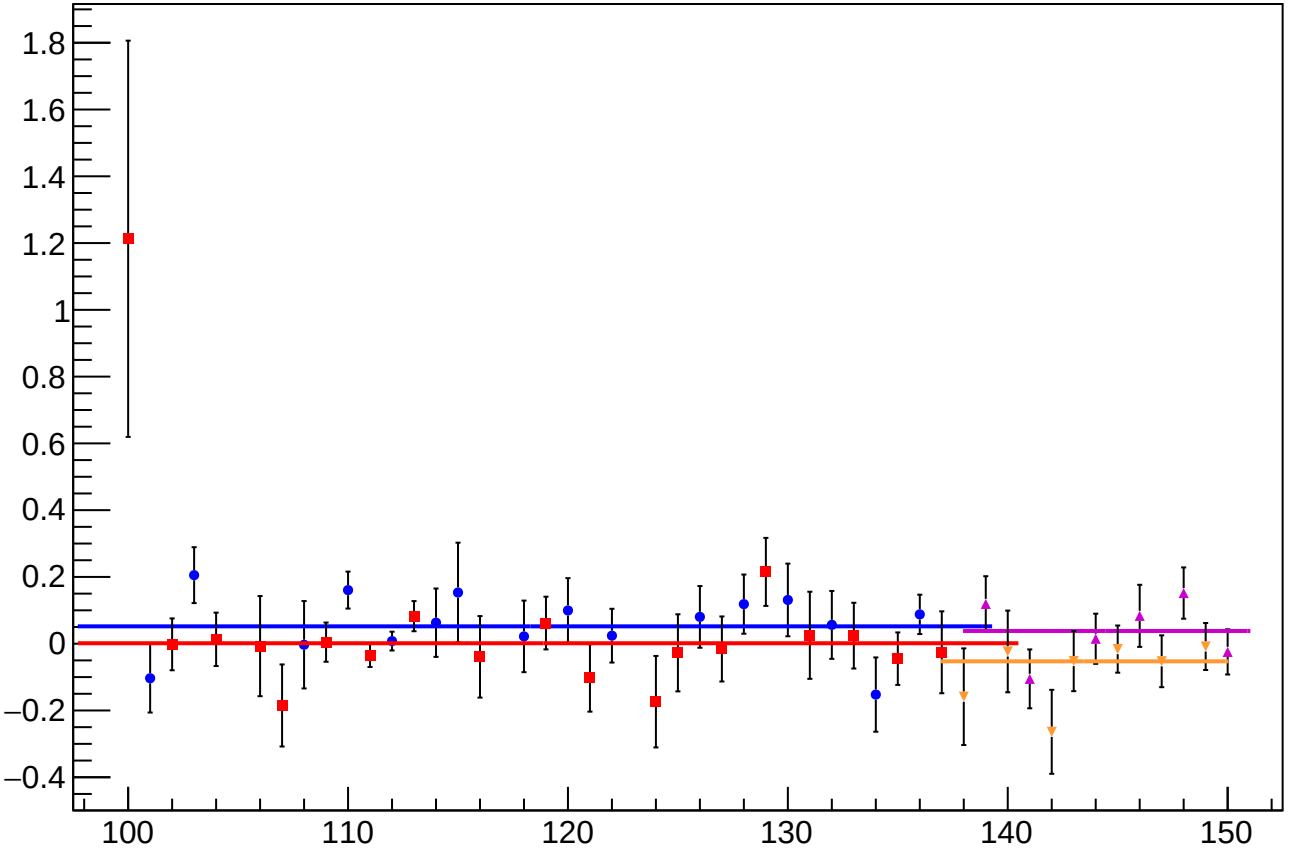
Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 48.275+/-0.011 $\chi^2$/NDF:4407022.7/21

Out: 50.668+/-0.011 $\chi^2$/NDF:3861569.3/25

All: 49.451+/-0.008 $\chi^2$/NDF: 8291785.0/47

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.053+/-0.034 $\chi^2$/NDF:4.1/6

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.038+/-0.032 $\chi^2$/NDF:7.0/5

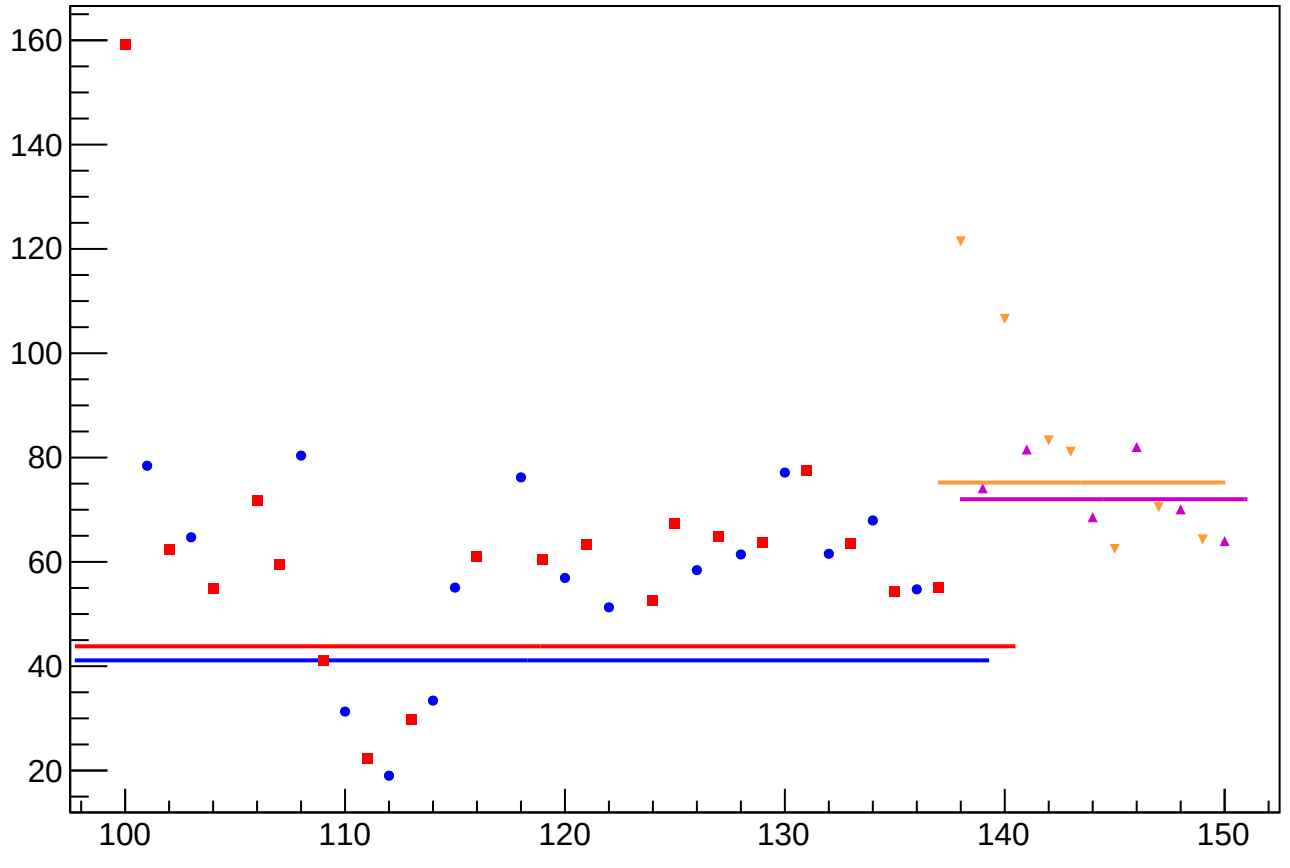
Left: -0.005+/-0.023 $\chi^2$/NDF: 14.8/12

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.049+/-0.016 $\chi^2$/NDF:25.1/21

Out: -0.010+/-0.016 $\chi^2$/NDF:25.3/25

All: 0.020+/-0.011 $\chi^2$/NDF: 57.5/47




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 75.209+/-0.024 $\chi^2$/NDF:473481.1/6

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 72.017+/-0.023 $\chi^2$/NDF:81471.2/5

Left: 73.539+/-0.017 $\chi^2$/NDF: 564219.1/12

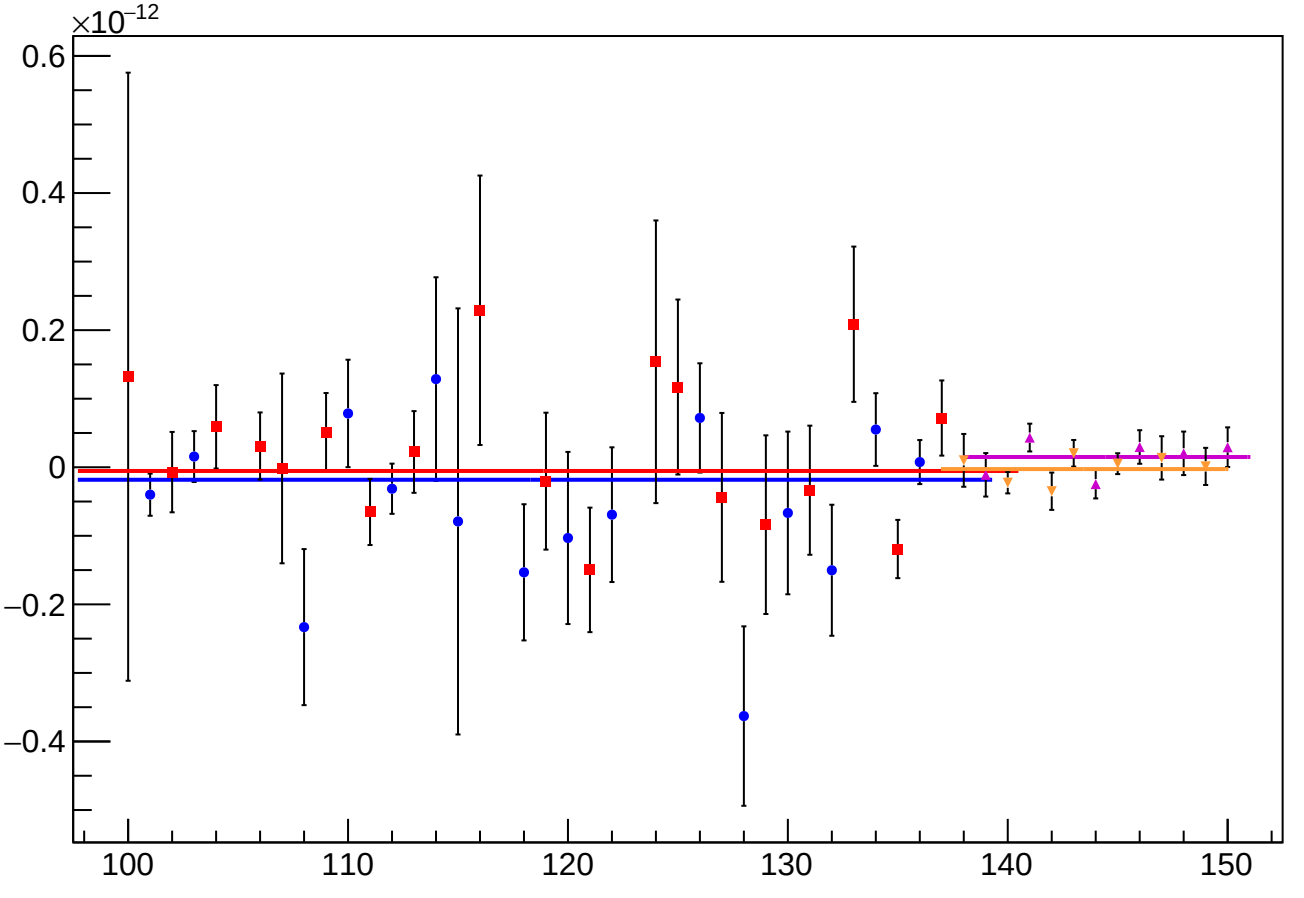
Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 48.275+/-0.011 $\chi^2$/NDF:4407022.7/21

Out: 50.668+/-0.011 $\chi^2$/NDF:3861569.3/25

All: 49.451+/-0.008 $\chi^2$/NDF: 8291785.0/47

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.8/5

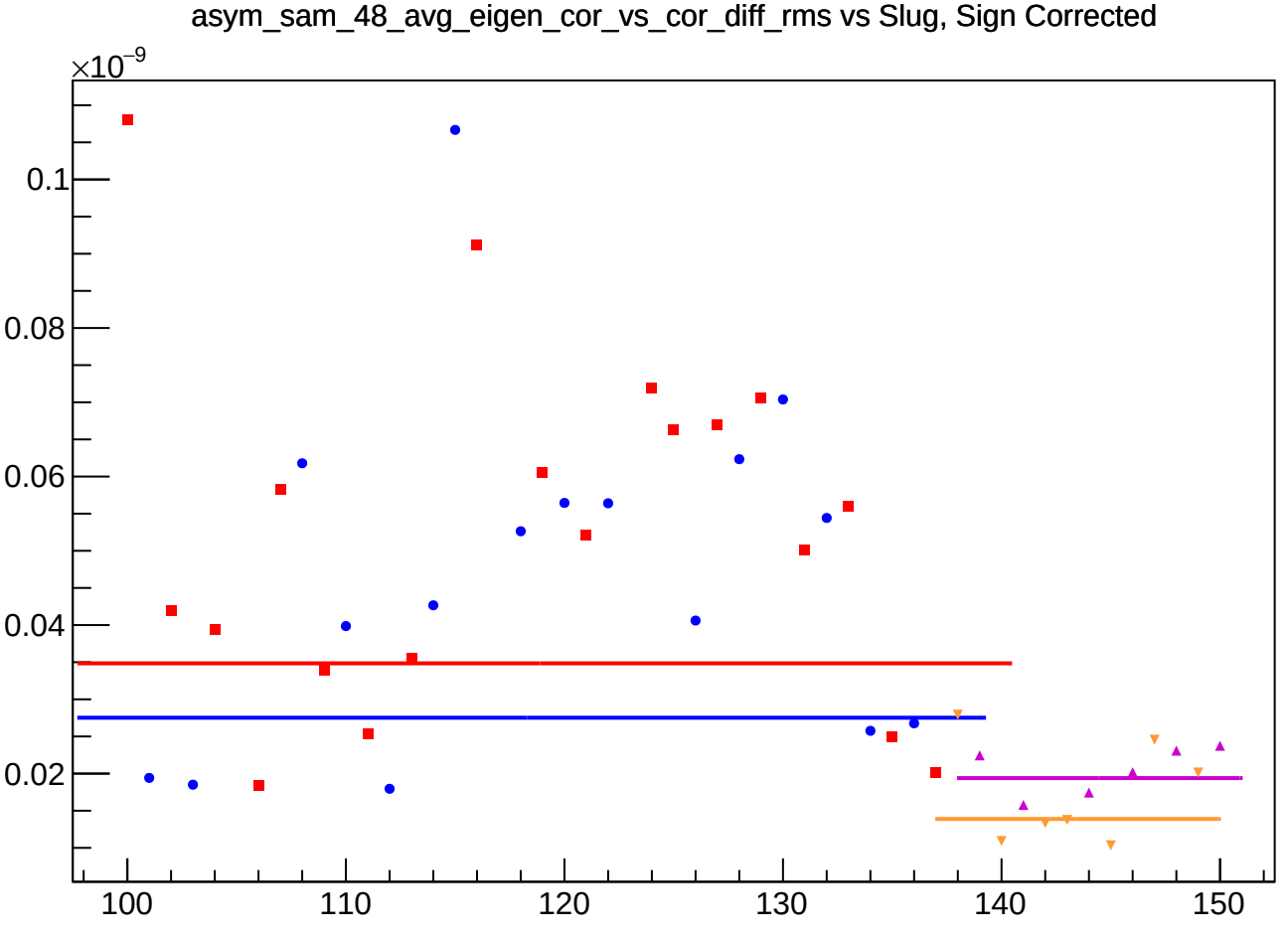
Left: 0.000+/-0.000 $\chi^2$/NDF: 13.8/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:33.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:28.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 62.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1799776.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:782520.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1676246.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:173932.9/5

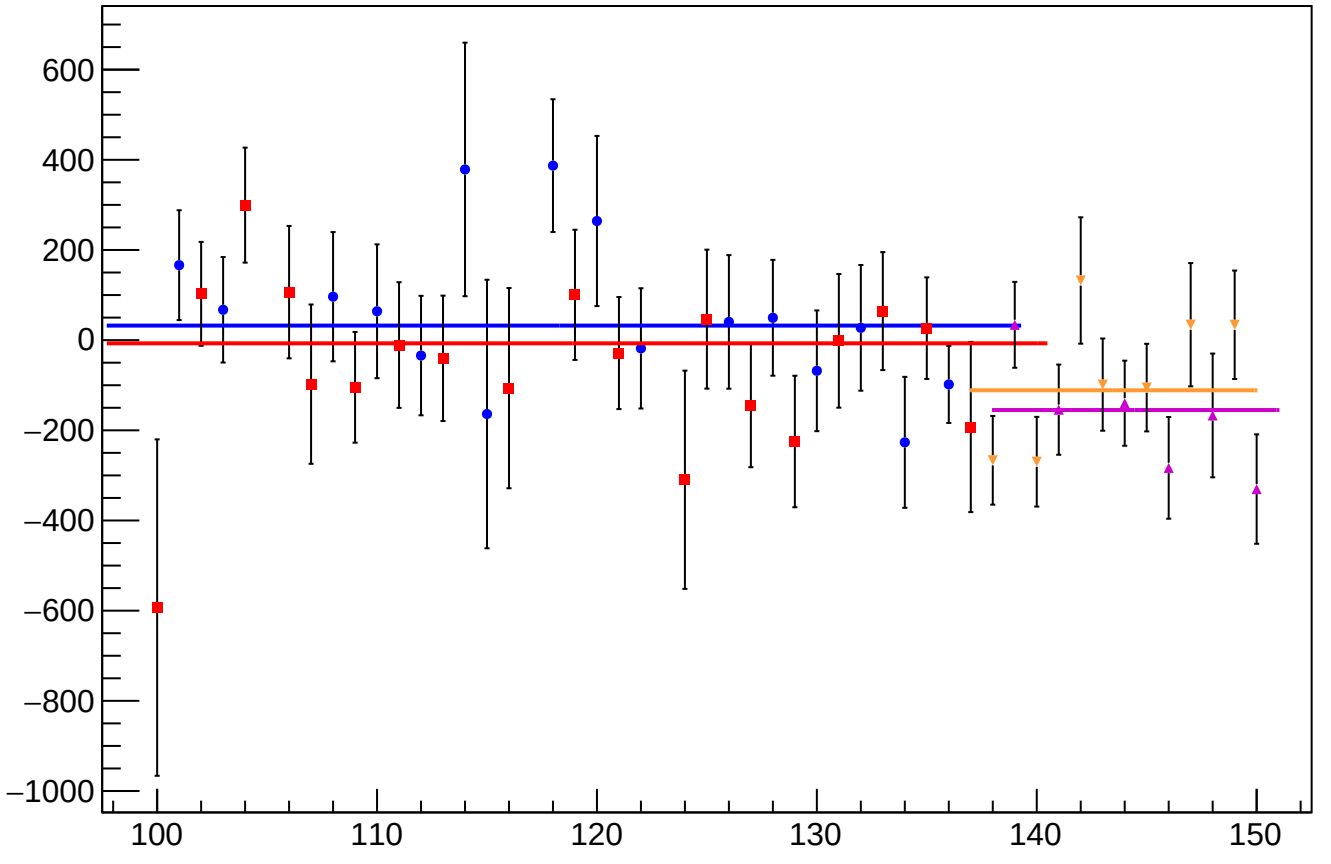
Left: 0.000+/-0.000 $\chi^2$/NDF: 1314614.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3696738.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:2396978.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5018453.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7715430.2/47




Right In: 32.297+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -111.182+/-41.539 $\chi^2$/NDF:10.7/6

Right Out: -7.070+/-33.420 $\chi^2$/NDF: 17.8/18

Left In: -155.025+/-43.765 $\chi^2$/NDF:7.4/5

Left: -131.960+/-30.129 $\chi^2$/NDF: 18.5/12

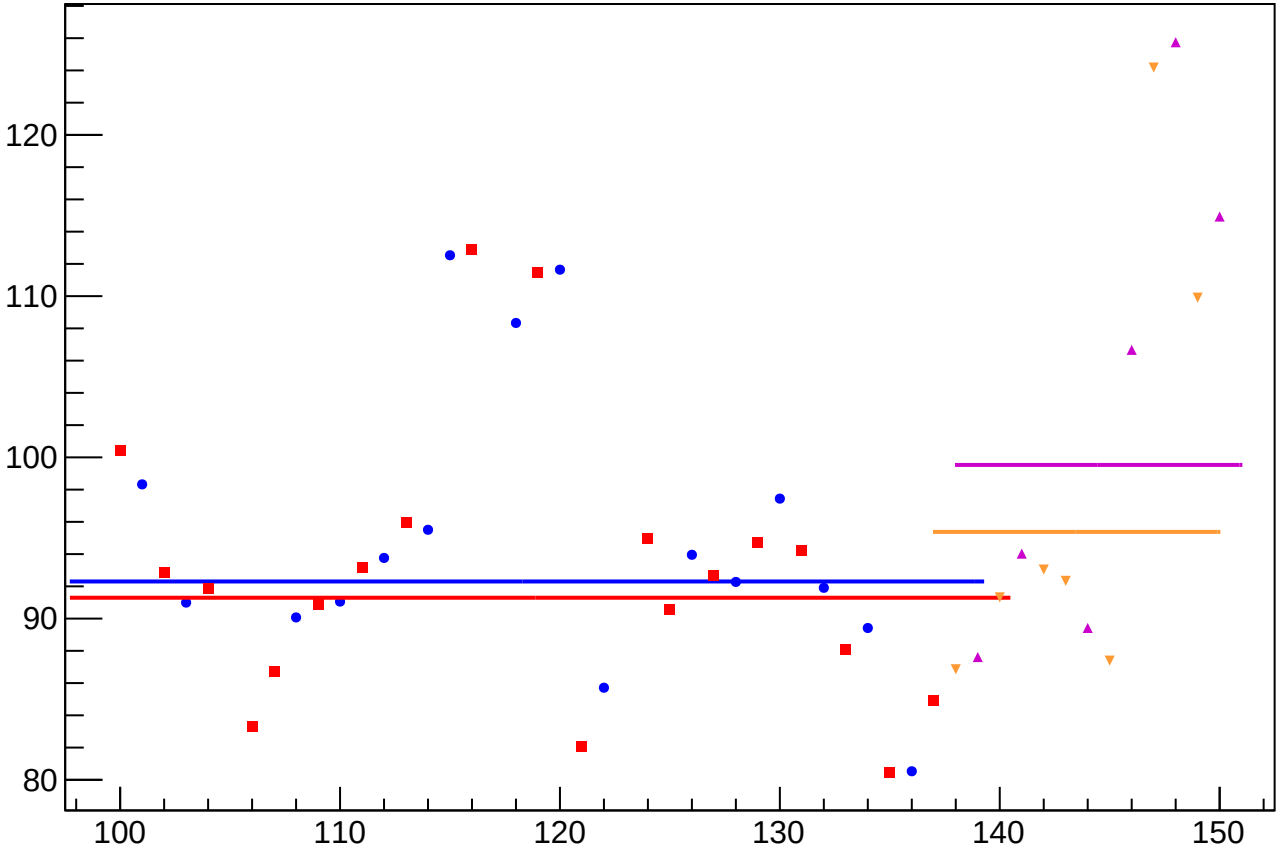
Right: 12.028+/-23.980 $\chi^2$/NDF: 35.7/34

In: -39.312+/-27.059 $\chi^2$/NDF:36.0/21

Out: -47.980+/-26.039 $\chi^2$/NDF:32.2/25

All: -43.813+/-18.763 $\chi^2$/NDF: 68.3/47

# reg_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 95.378+/-0.029 $\chi^2$/NDF:152177.0/6

Right Out: 91.294+/-0.024 $\chi^2$/NDF: 105096.6/18

Left In: 99.531+/-0.031 $\chi^2$/NDF:173513.1/5

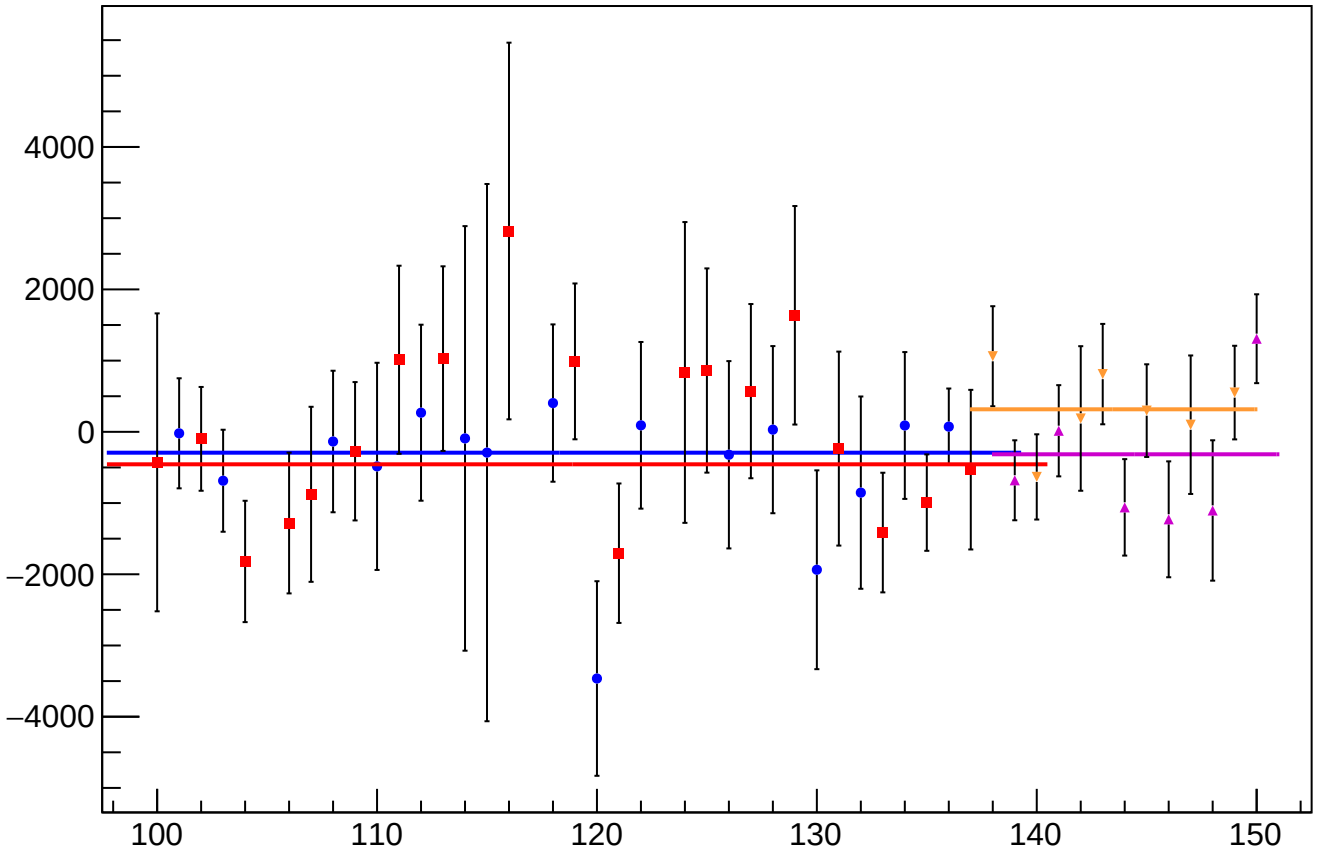
Left: 97.346+/-0.021 $\chi^2$/NDF: 335164.3/12

Right: 91.783+/-0.017 $\chi^2$/NDF: 213046.7/34

In: 95.066+/-0.019 $\chi^2$/NDF:314281.4/21

Out: 92.898+/-0.018 $\chi^2$/NDF:269010.7/25

All: 93.940+/-0.013 $\chi^2$/NDF: 589952.9/47




Right In: -292.756+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 316.415+/-271.807 $\chi^2$/NDF:4.3/6

Right Out: -455.830+/-248.717 $\chi^2$/NDF: 16.9/18

Left In: -315.203+/-278.431 $\chi^2$/NDF:10.6/5

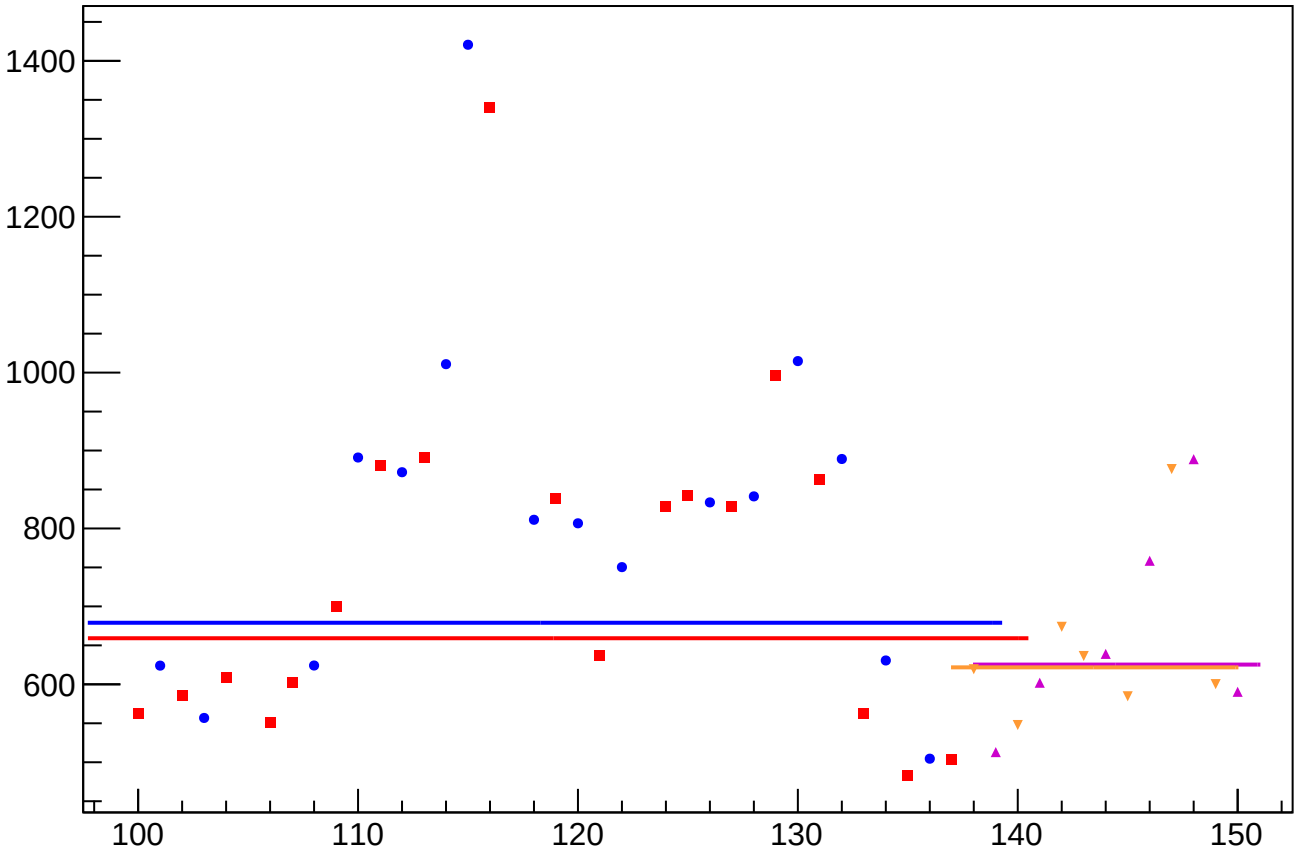
Left: 8.209+/-194.496 $\chi^2$/NDF: 17.5/12

Right: -377.812+/-179.624 $\chi^2$/NDF: 25.9/34

In: -303.199+/-189.910 $\chi^2$/NDF:19.4/21

Out: -103.897+/-183.490 $\chi^2$/NDF:25.6/25

All: -200.123+/-131.958 $\chi^2$/NDF: 45.5/47




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767983.3/15

Left Out: 621.766+/-0.192 $\chi^2$/NDF:182326.1/6

Right Out: 659.133+/-0.176 $\chi^2$/NDF: 795877.7/18

Left In: 625.331+/-0.197 $\chi^2$/NDF:286387.5/5

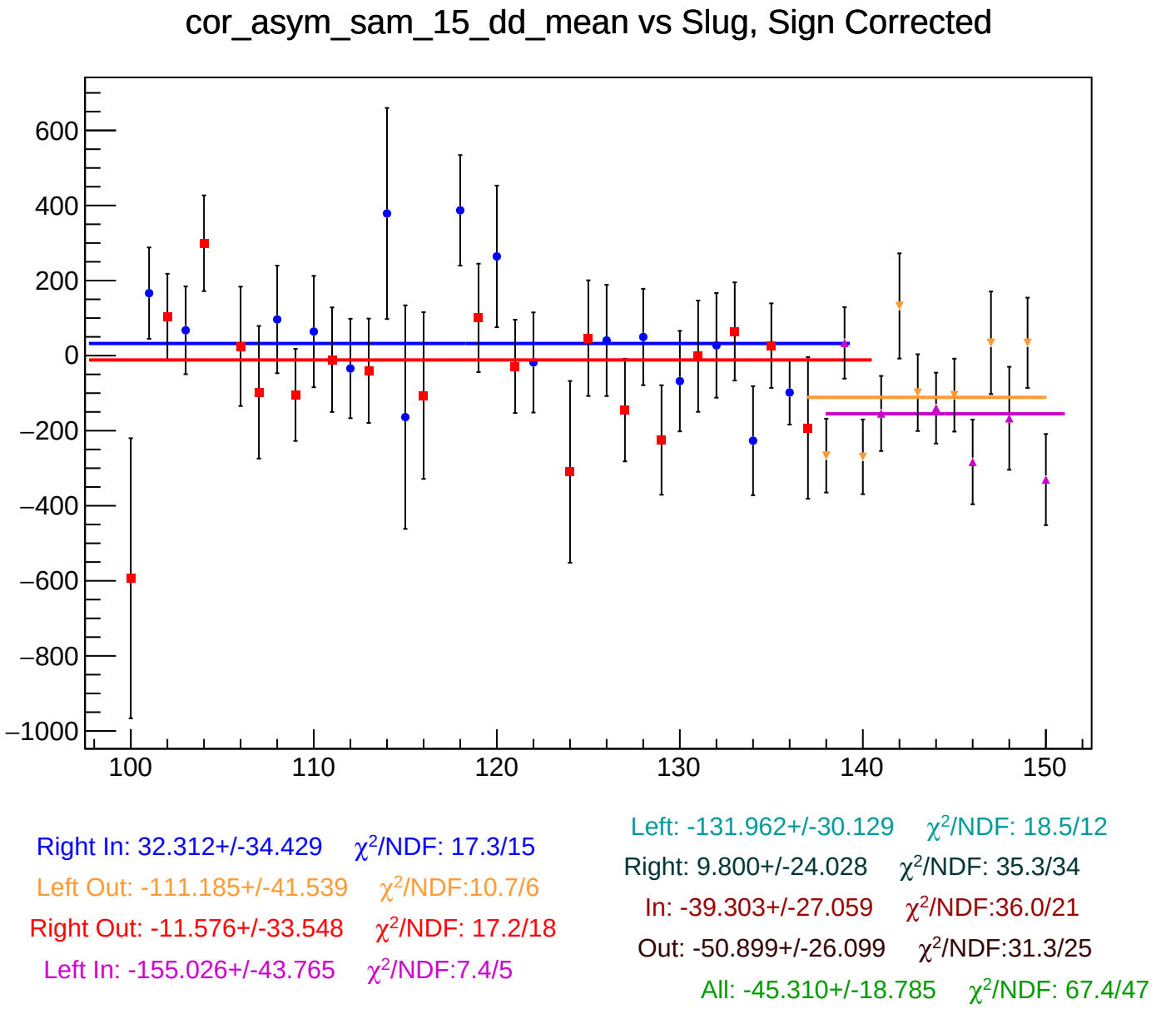
Left: 623.505+/-0.138 $\chi^2$/NDF: 468881.5/12

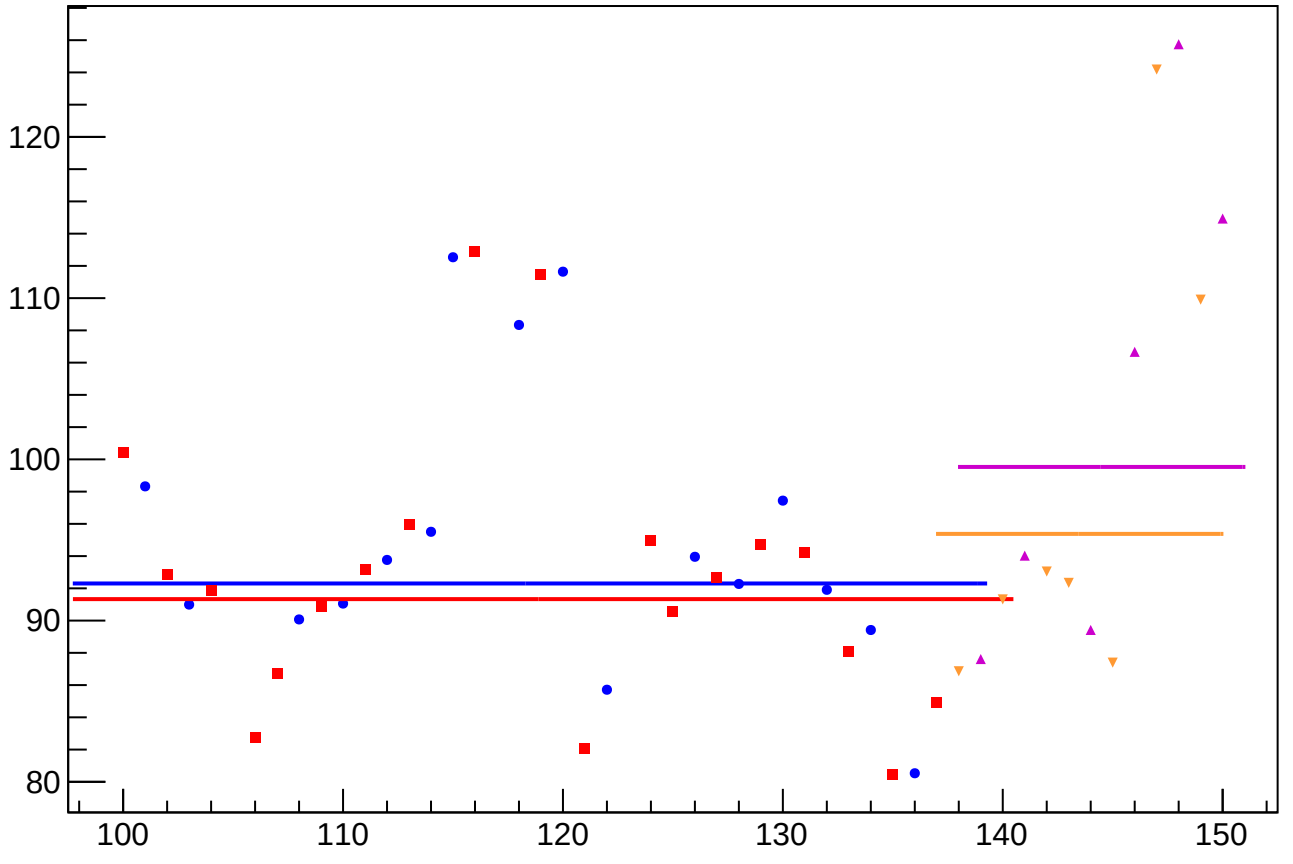
Right: 668.639+/-0.127 $\chi^2$/NDF: 1569967.8/34

In: 654.034+/-0.134 $\chi^2$/NDF:1094114.2/21

Out: 642.104+/-0.130 $\chi^2$/NDF:998777.7/25

All: 647.864+/-0.093 $\chi^2$/NDF: 2096973.8/47


cor_asym_sam_15_dd_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
−600
−800
−1000
100
110
120
130
140
150
Right In: 32.312+/-34.429 χ²/NDF: 17.3/15
Left Out: -111.185+/-41.539 χ²/NDF:10.7/6
Right Out: -11.576+/-33.548 χ²/NDF: 17.2/18
Left In: -155.026+/-43.765 χ²/NDF:7.4/5
Left: -131.962+/-30.129 χ²/NDF: 18.5/12
Right: 9.800+/-24.028 χ²/NDF: 35.3/34
In: -39.303+/-27.059 χ²/NDF:36.0/21
Out: -50.899+/-26.099 χ²/NDF:31.3/25
All: -45.310+/-18.785 χ²/NDF: 67.4/47




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 95.378+/-0.029 $\chi^2$/NDF:152177.0/6

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 99.531+/-0.031 $\chi^2$/NDF:173513.1/5

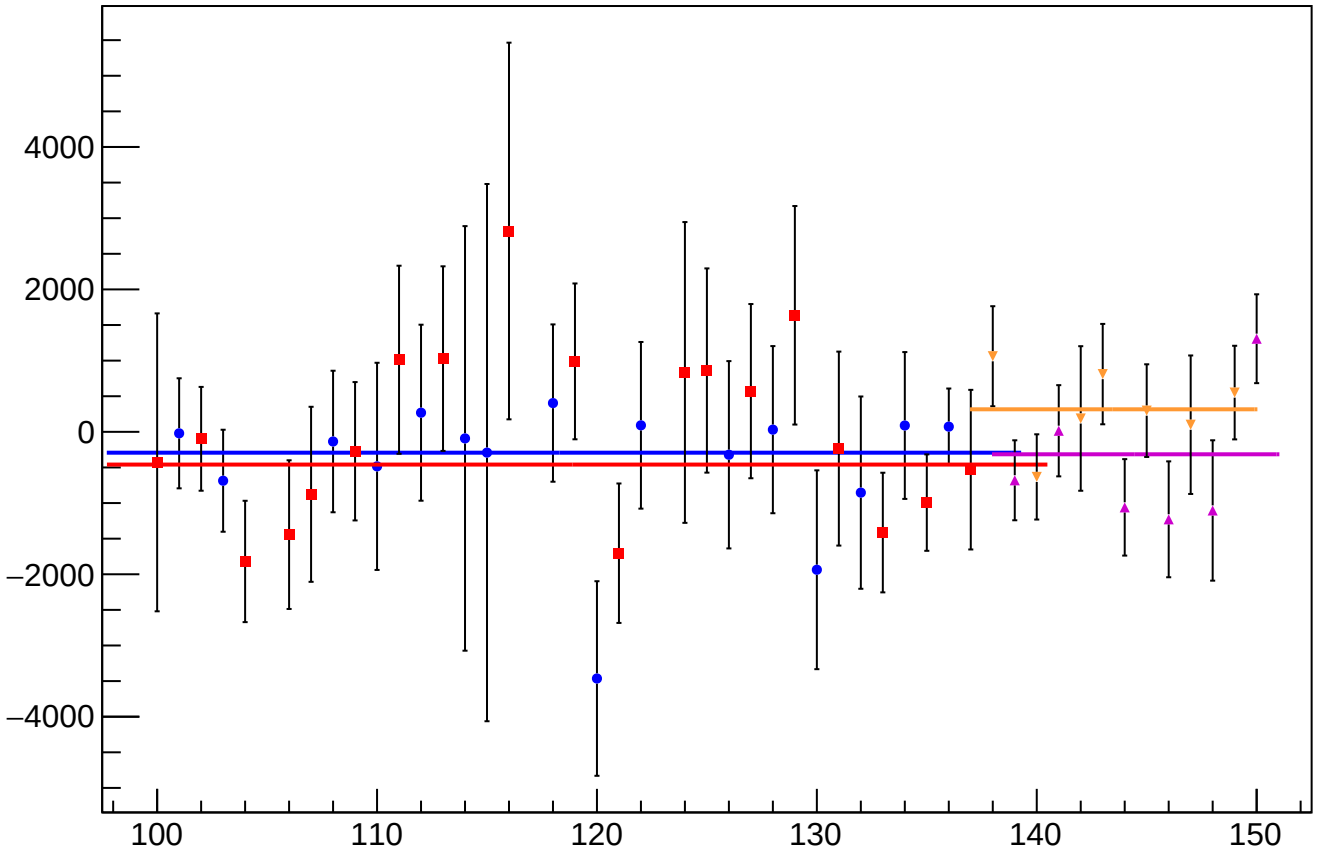
Left: 97.346+/-0.021 $\chi^2$/NDF: 335164.3/12

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 95.066+/-0.019 $\chi^2$/NDF:314281.3/21

Out: 92.929+/-0.018 $\chi^2$/NDF:268578.4/25

All: 93.959+/-0.013 $\chi^2$/NDF: 589318.8/47




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 316.411+/-271.807 $\chi^2$/NDF:4.3/6

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -315.200+/-278.431 $\chi^2$/NDF:10.6/5

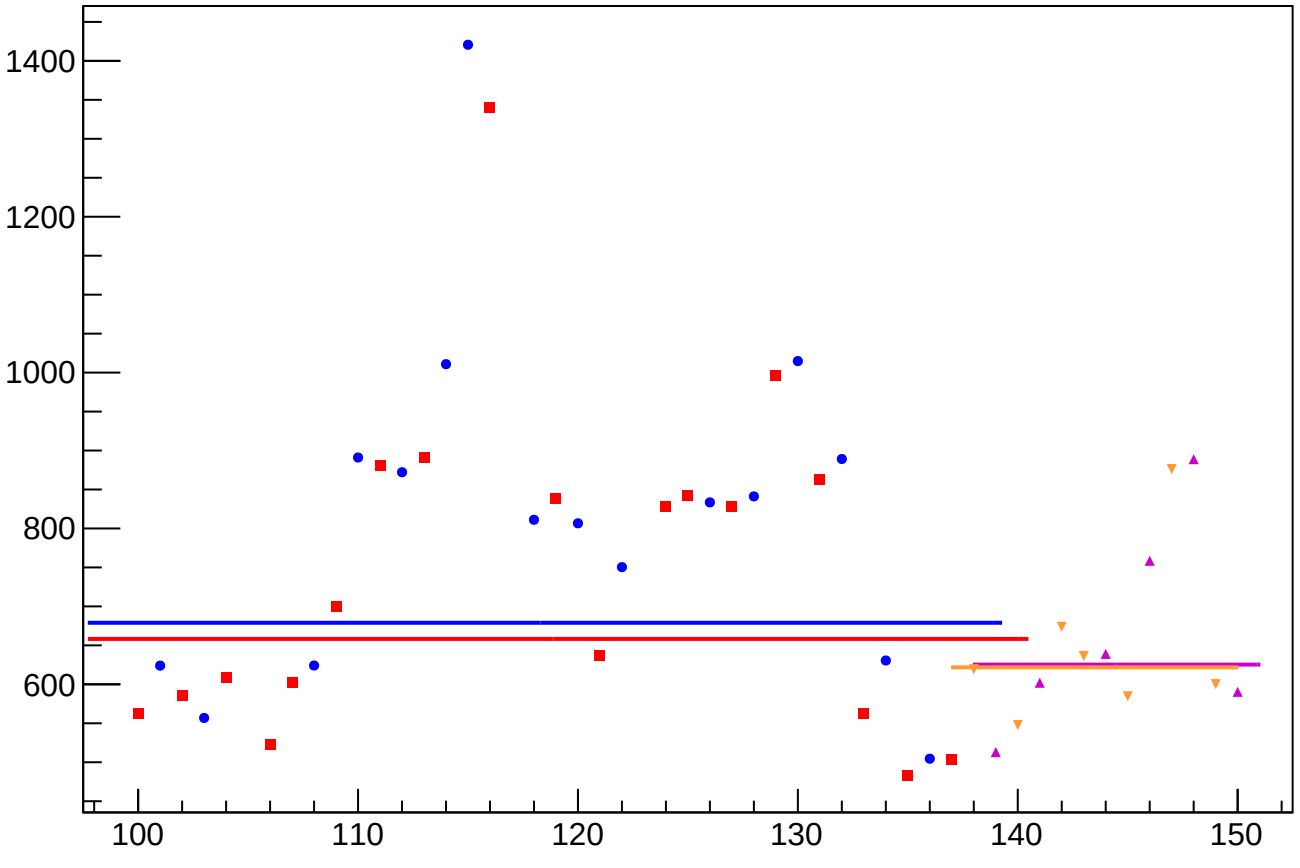
Left: 8.208+/-194.496 $\chi^2$/NDF: 17.5/12

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -303.196+/-189.910 $\chi^2$/NDF:19.4/21

Out: -104.671+/-183.821 $\chi^2$/NDF:25.8/25

All: -200.700+/-132.081 $\chi^2$/NDF: 45.7/47




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 621.766+/-0.192 $\chi^2$/NDF:182326.3/6

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 625.331+/-0.197 $\chi^2$/NDF:286387.2/5

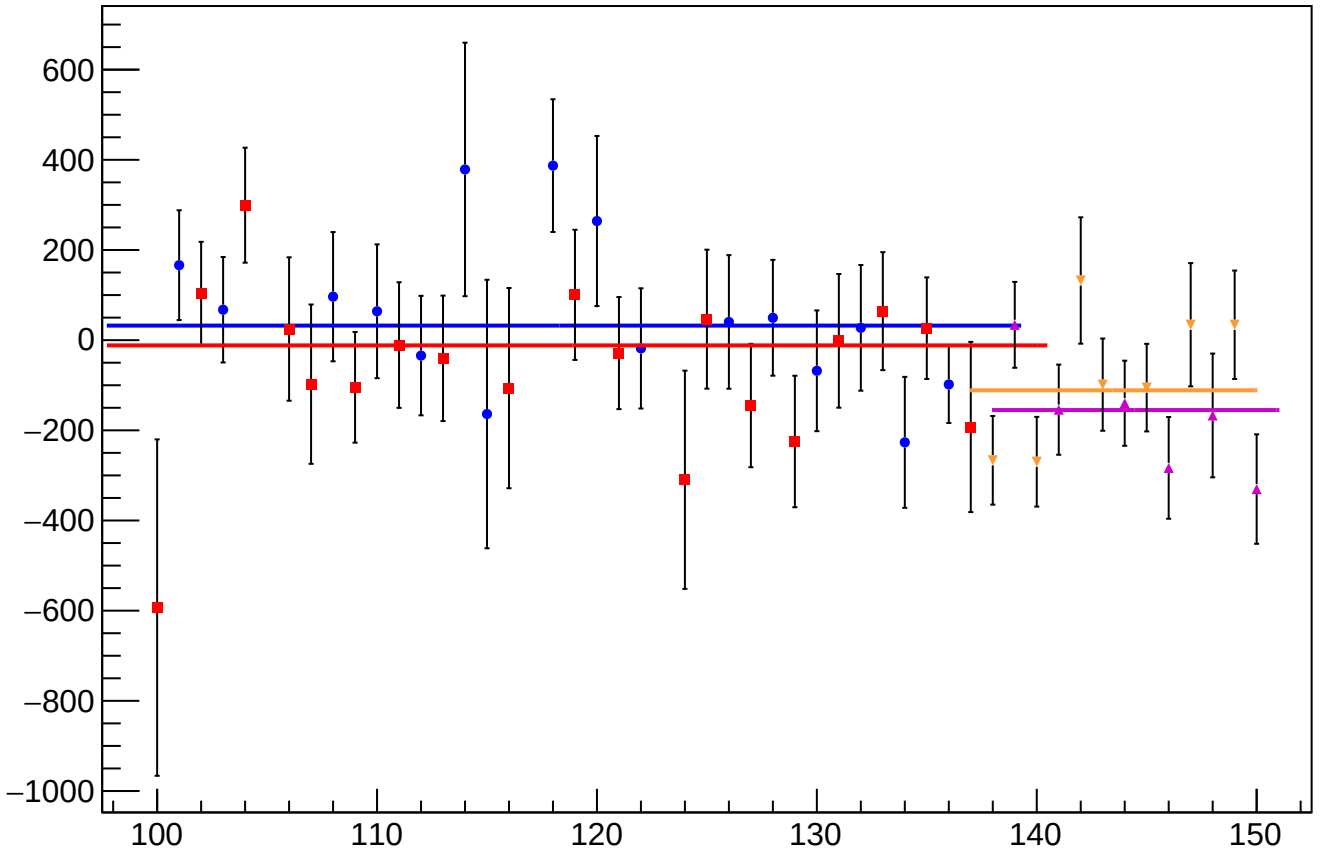
Left: 623.506+/-0.138 $\chi^2$/NDF: 468881.4/12

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 654.034+/-0.134 $\chi^2$/NDF:1094115.0/21

Out: 641.569+/-0.130 $\chi^2$/NDF:1007790.4/25

All: 647.599+/-0.093 $\chi^2$/NDF: 2106353.4/47




Right In: 32.312+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -111.185+/-41.539 $\chi^2$/NDF:10.7/6

Right Out: -11.576+/-33.548 $\chi^2$/NDF: 17.2/18

Left In: -155.026+/-43.765 $\chi^2$/NDF:7.4/5

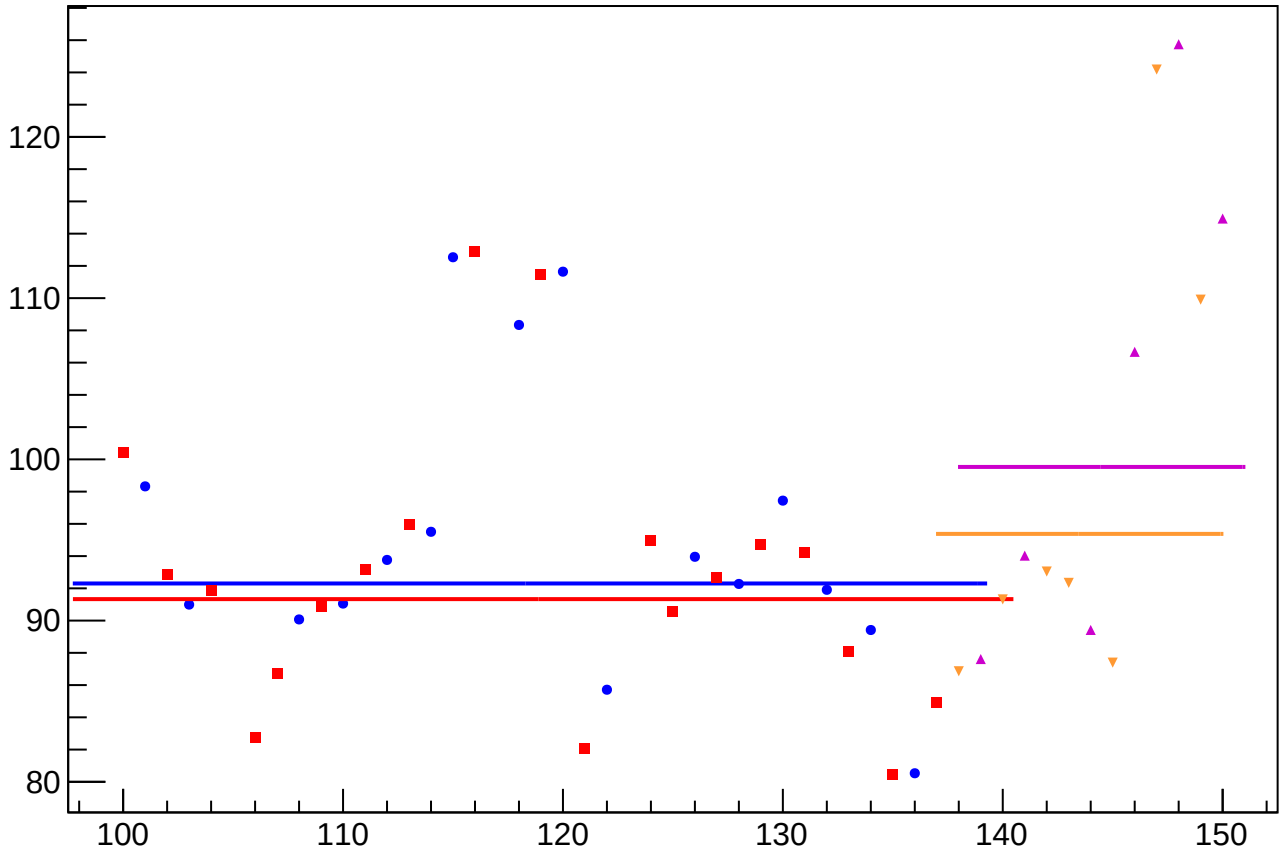
Left: -131.962+/-30.129 $\chi^2$/NDF: 18.5/12

Right: 9.800+/-24.028 $\chi^2$/NDF: 35.3/34

In: -39.303+/-27.059 $\chi^2$/NDF:36.0/21

Out: -50.899+/-26.099 $\chi^2$/NDF:31.3/25

All: -45.310+/-18.785 $\chi^2$/NDF: 67.4/47




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 95.378+/-0.029 $\chi^2$/NDF:152177.0/6

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 99.531+/-0.031 $\chi^2$/NDF:173513.1/5

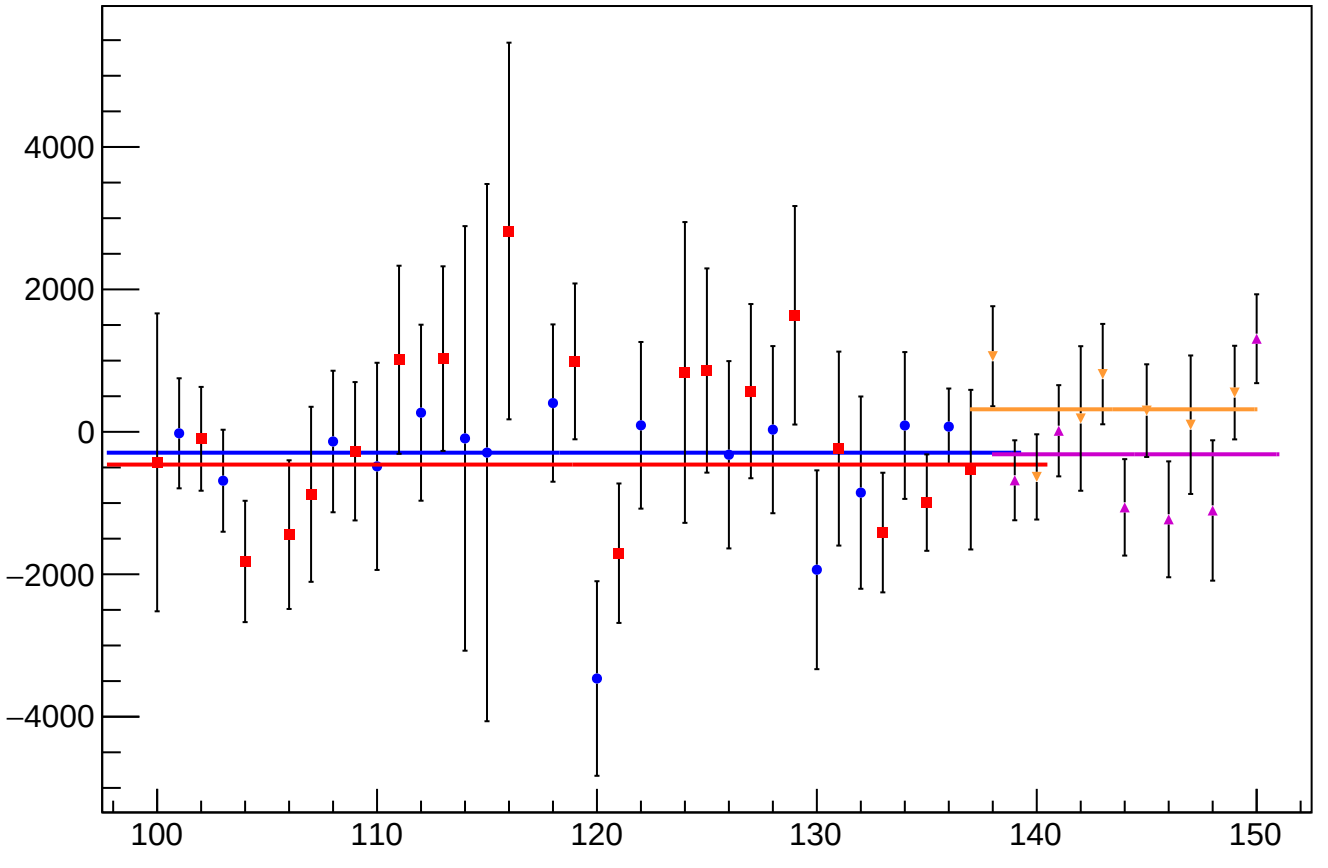
Left: 97.346+/-0.021 $\chi^2$/NDF: 335164.3/12

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 95.066+/-0.019 $\chi^2$/NDF:314281.3/21

Out: 92.929+/-0.018 $\chi^2$/NDF:268578.4/25

All: 93.959+/-0.013 $\chi^2$/NDF: 589318.8/47




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 316.411+/-271.807 $\chi^2$/NDF:4.3/6

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -315.200+/-278.431 $\chi^2$/NDF:10.6/5

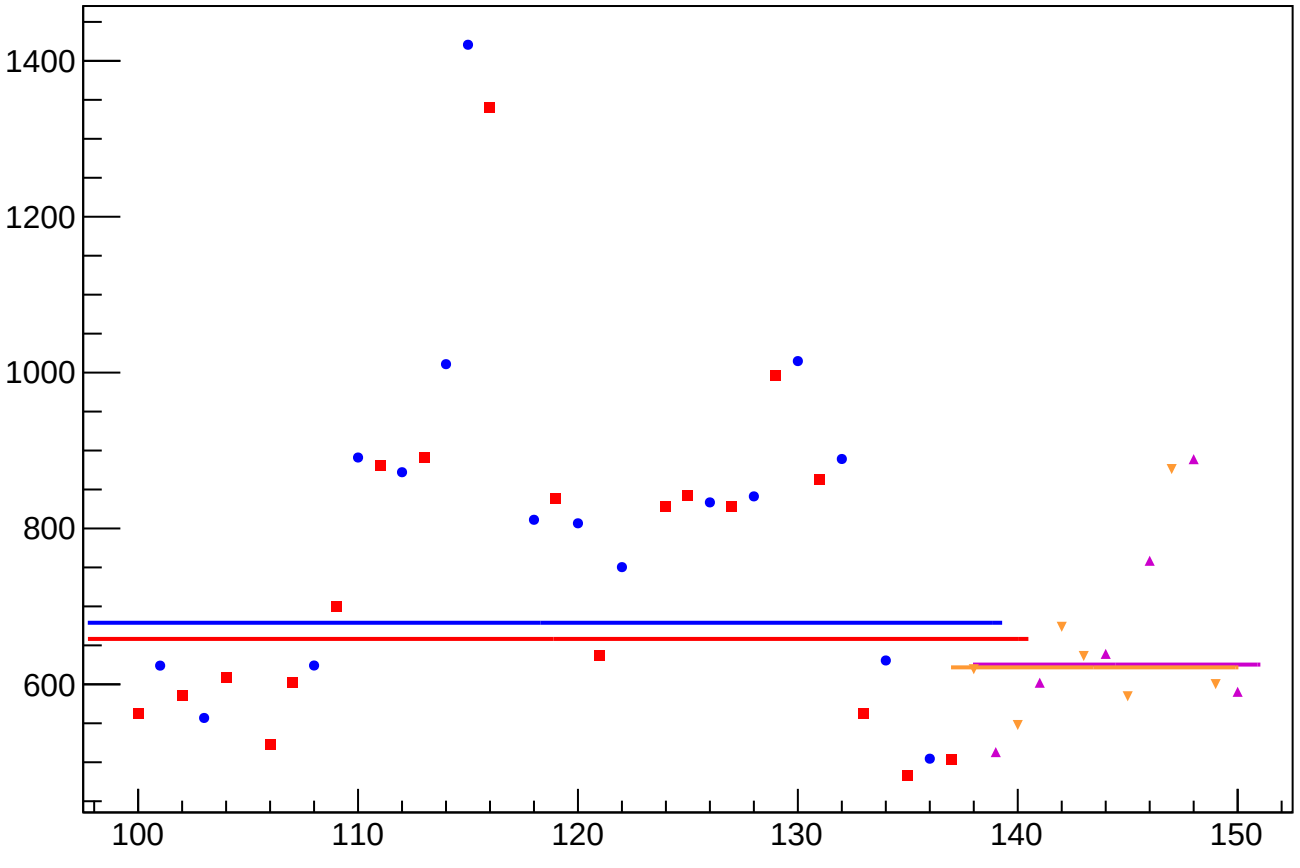
Left: 8.208+/-194.496 $\chi^2$/NDF: 17.5/12

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -303.196+/-189.910 $\chi^2$/NDF:19.4/21

Out: -104.671+/-183.821 $\chi^2$/NDF:25.8/25

All: -200.700+/-132.081 $\chi^2$/NDF: 45.7/47




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 621.766+/-0.192 $\chi^2$/NDF:182326.3/6

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 625.331+/-0.197 $\chi^2$/NDF:286387.2/5

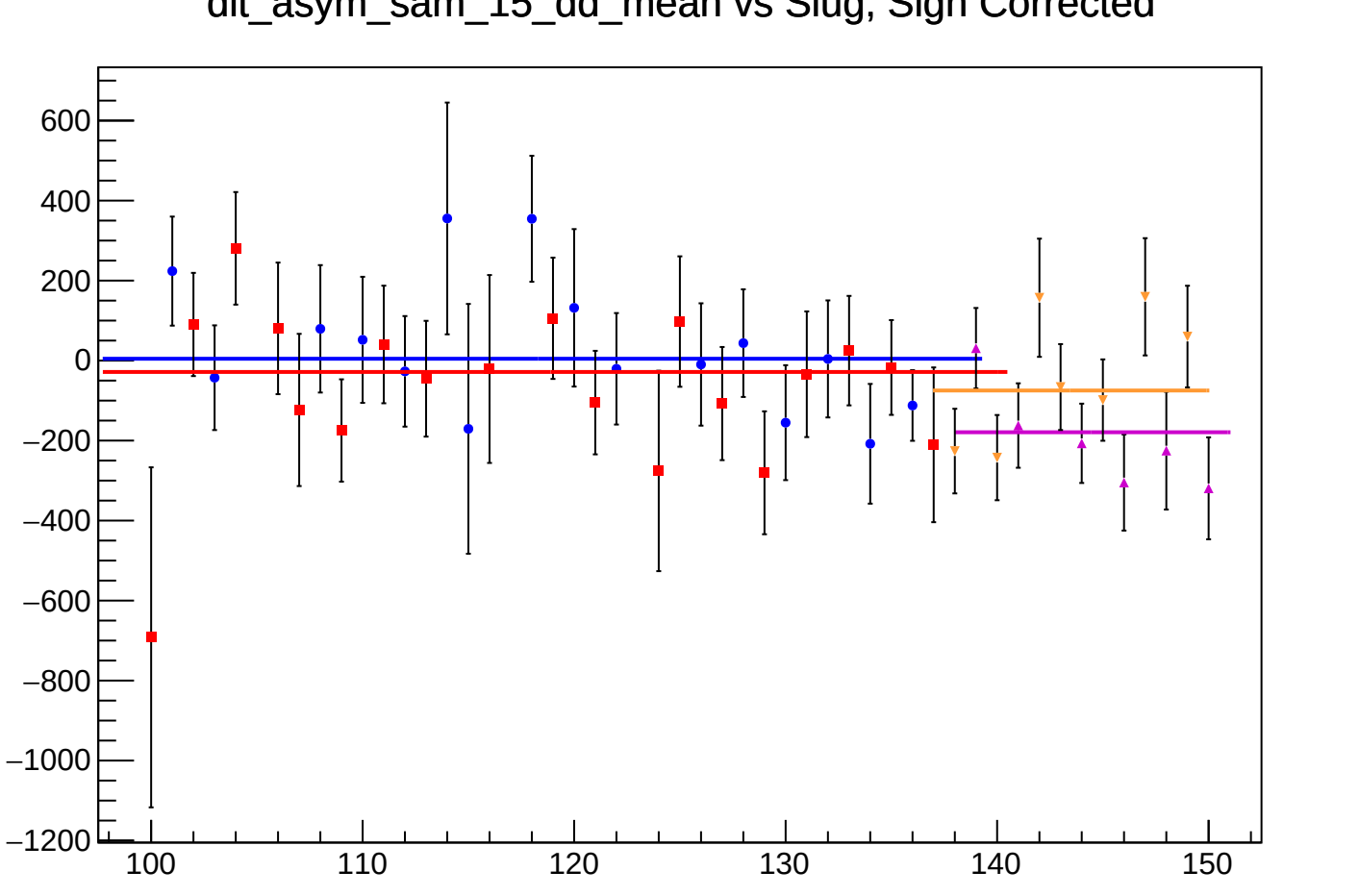
Left: 623.506+/-0.138 $\chi^2$/NDF: 468881.4/12

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 654.034+/-0.134 $\chi^2$/NDF:1094115.0/21

Out: 641.569+/-0.130 $\chi^2$/NDF:1007790.4/25

All: 647.599+/-0.093 $\chi^2$/NDF: 2106353.4/47




Right In: 4.619+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -74.792+/-44.057 $\chi^2$/NDF:10.7/6

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -179.150+/-46.260 $\chi^2$/NDF:6.9/5

Left: -124.427+/-31.903 $\chi^2$/NDF: 20.3/12

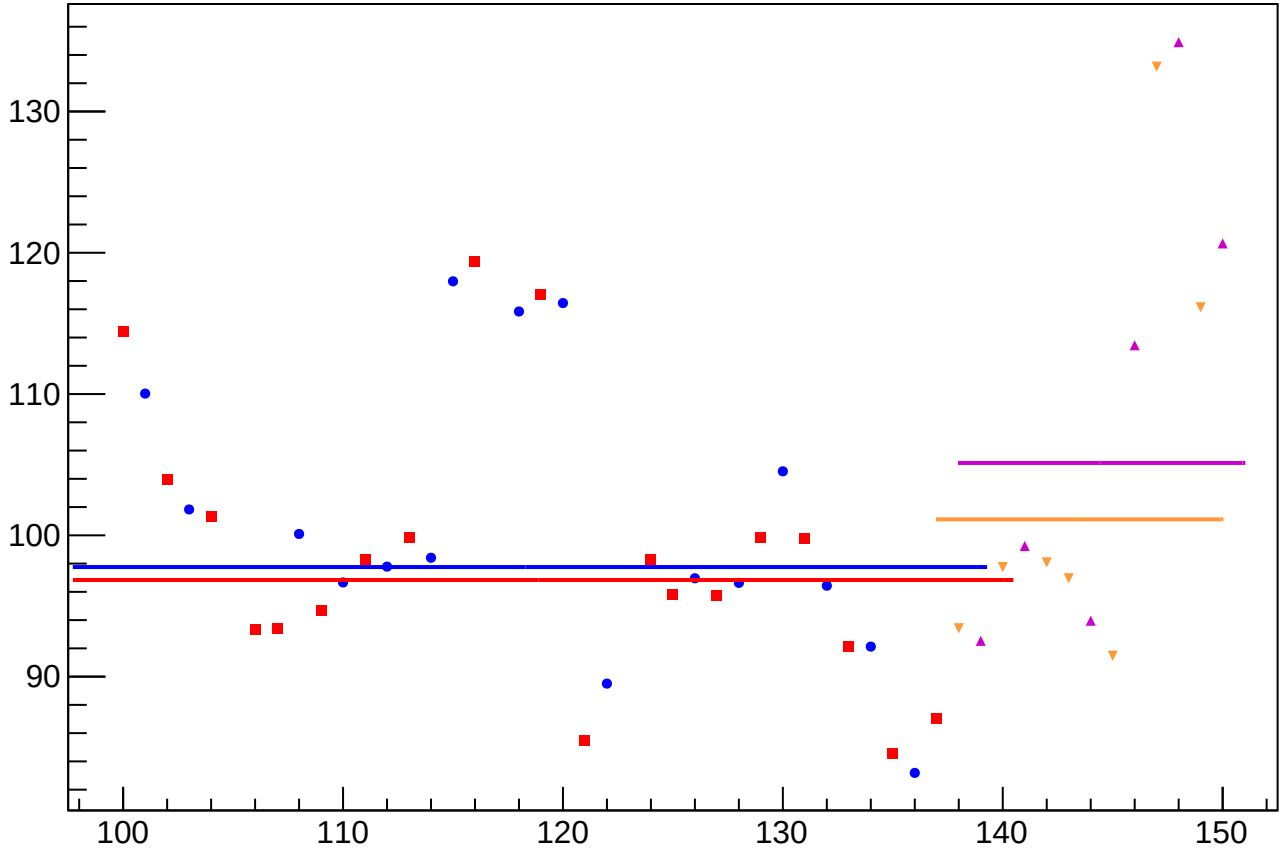
Right: -12.373+/-25.439 $\chi^2$/NDF: 32.9/34

In: -65.911+/-28.659 $\chi^2$/NDF:31.9/21

Out: -46.646+/-27.626 $\chi^2$/NDF:28.5/25

All: -55.925+/-19.890 $\chi^2$/NDF: 60.7/47

# dit_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.4/15

Left Out: 101.130+/-0.031 $\chi^2$/NDF:158000.5/6

Right Out: 96.840+/-0.025 $\chi^2$/NDF: 115170.9/18

Left In: 105.123+/-0.033 $\chi^2$/NDF:184044.8/5

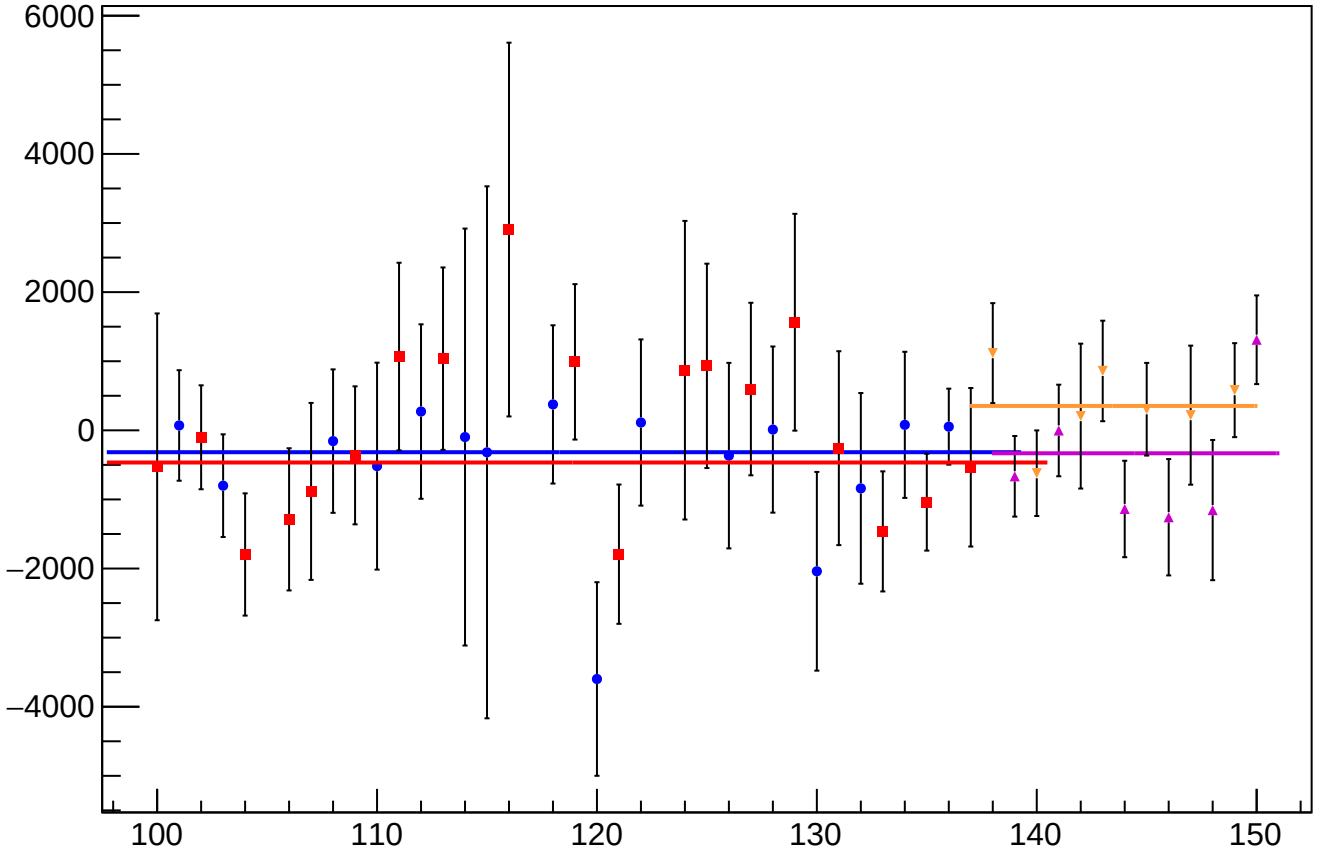
Left: 103.029+/-0.023 $\chi^2$/NDF: 349856.8/12

Right: 97.285+/-0.018 $\chi^2$/NDF: 256473.4/34

In: 100.583+/-0.020 $\chi^2$/NDF:355950.7/21

Out: 98.527+/-0.020 $\chi^2$/NDF:284680.7/25

All: 99.517+/-0.014 $\chi^2$/NDF: 645969.8/47




Right In: -316.572+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 353.010+/-280.691 $\chi^2$/NDF:4.2/6

Right Out: -465.576+/-256.646 $\chi^2$/NDF: 16.5/18

Left In: -332.008+/-287.698 $\chi^2$/NDF:10.3/5

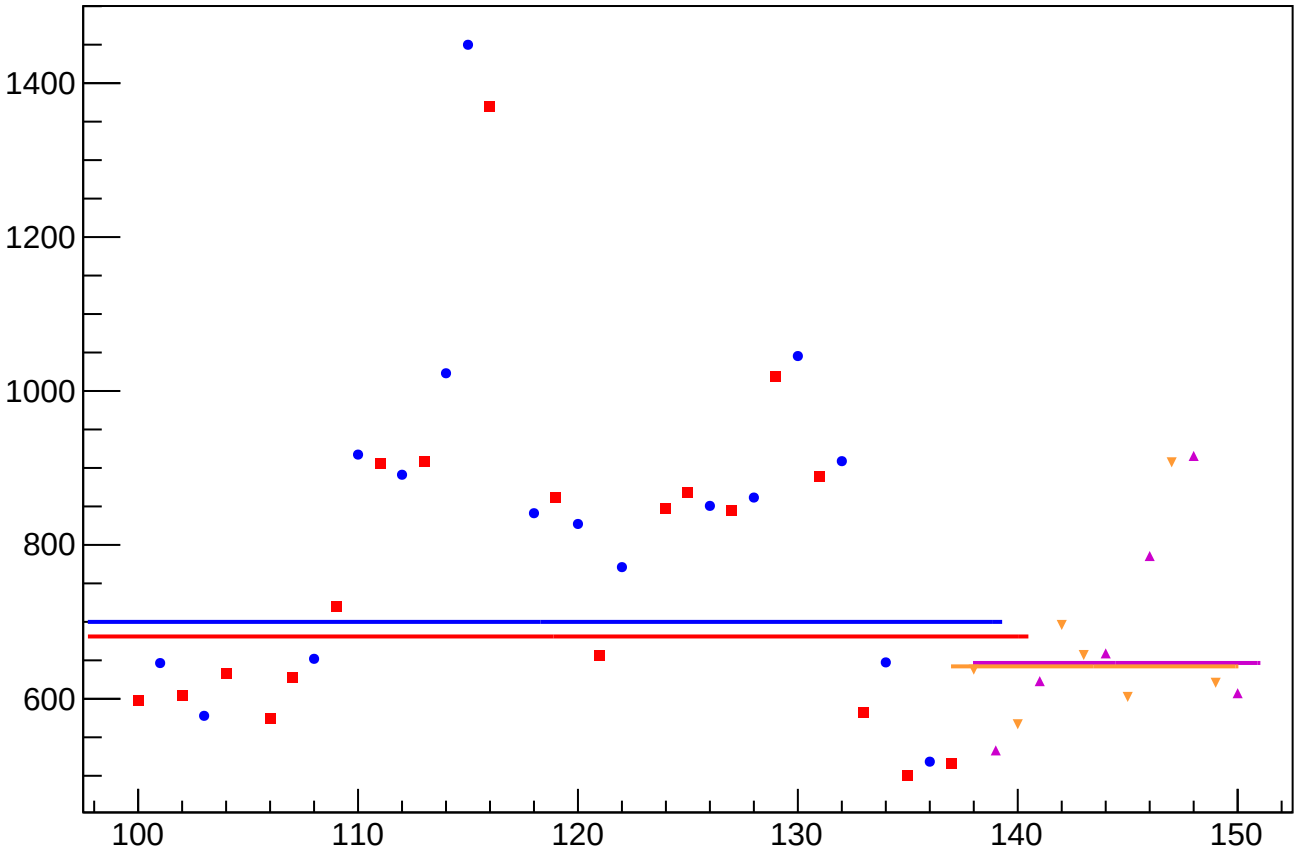
Left: 18.945+/-200.910 $\chi^2$/NDF: 17.5/12

Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -323.729+/-195.909 $\chi^2$/NDF:19.5/21

Out: -92.841+/-189.407 $\chi^2$/NDF:25.3/25

All: -204.390+/-136.172 $\chi^2$/NDF: 45.5/47




Right In: 699.973+/-0.189 $\chi^2$/NDF: 753665.4/15

Left Out: 642.168+/-0.198 $\chi^2$/NDF:183528.4/6

Right Out: 681.016+/-0.181 $\chi^2$/NDF: 769397.2/18

Left In: 646.600+/-0.203 $\chi^2$/NDF:281648.3/5

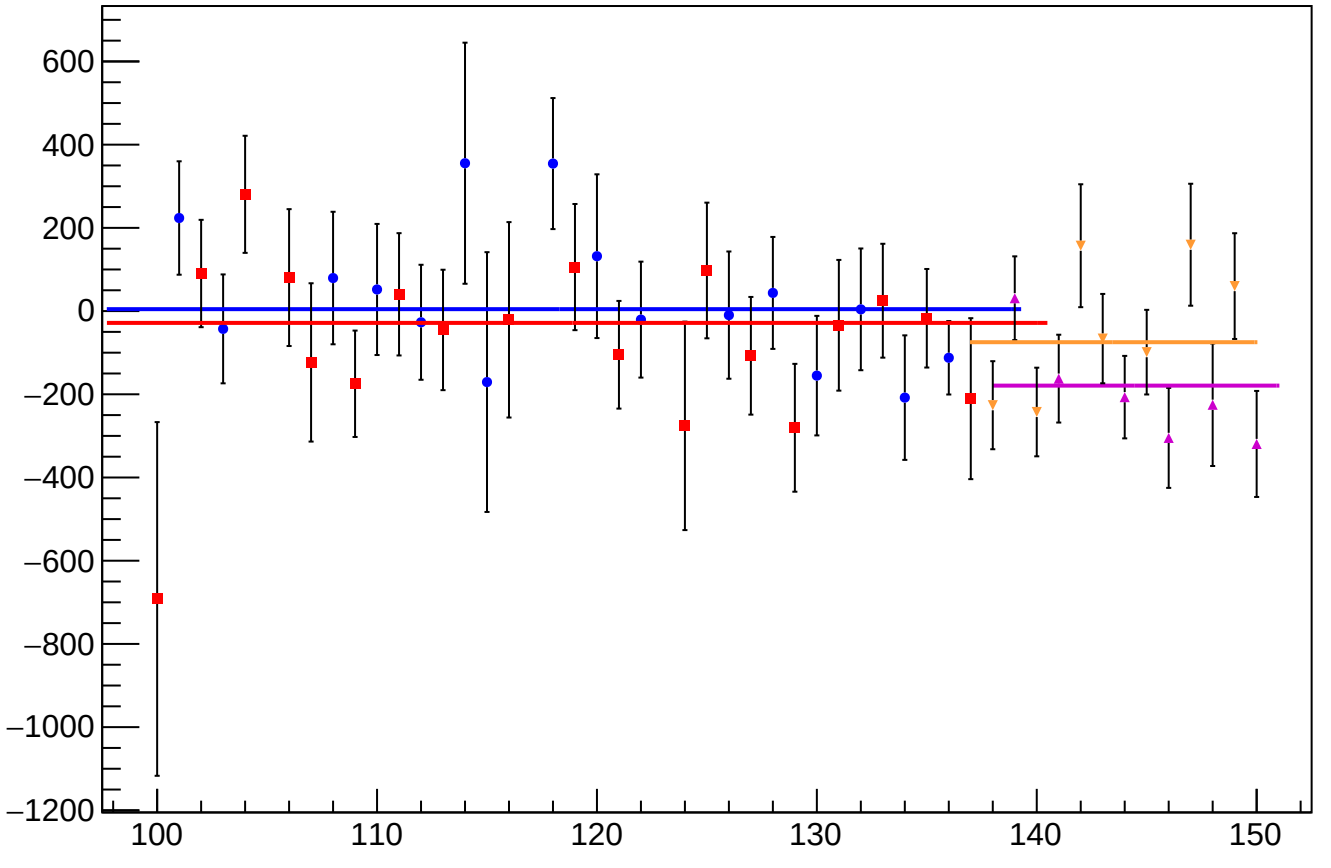
Left: 644.330+/-0.142 $\chi^2$/NDF: 465419.9/12

Right: 690.102+/-0.131 $\chi^2$/NDF: 1528292.0/34

In: 675.224+/-0.139 $\chi^2$/NDF:1072229.0/21

Out: 663.327+/-0.134 $\chi^2$/NDF:973791.6/25

All: 669.075+/-0.096 $\chi^2$/NDF: 2049832.7/47




Right In: 4.620+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -74.793+/-44.057 $\chi^2$/NDF:10.7/6

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -179.150+/-46.260 $\chi^2$/NDF:6.9/5

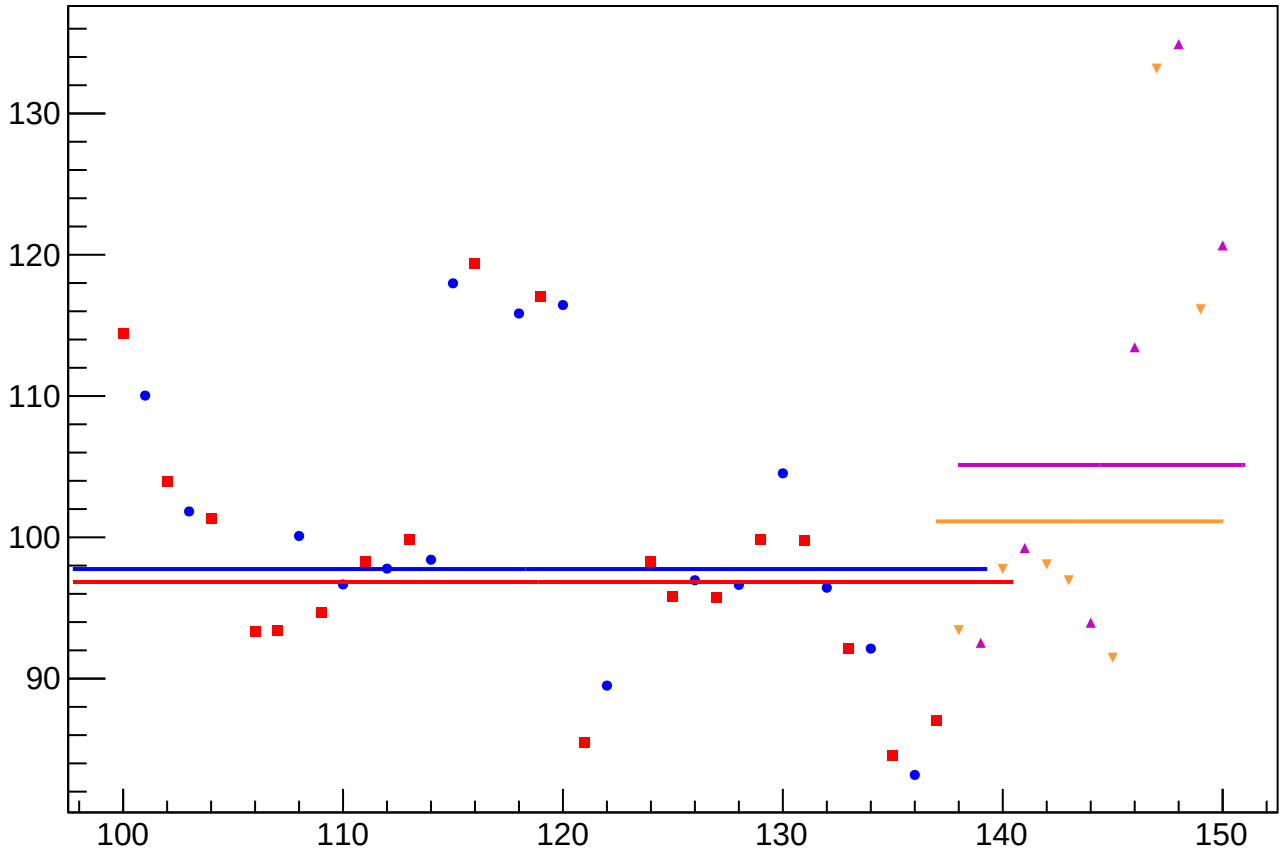
Left: -124.427+/-31.904 $\chi^2$/NDF: 20.3/12

Right: -12.373+/-25.438 $\chi^2$/NDF: 32.9/34

In: -65.911+/-28.659 $\chi^2$/NDF:31.9/21

Out: -46.646+/-27.626 $\chi^2$/NDF:28.5/25

All: -55.925+/-19.890 $\chi^2$/NDF: 60.7/47




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.8/15

Left Out: 101.130+/-0.031 $\chi^2$/NDF:158001.7/6

Right Out: 96.839+/-0.025 $\chi^2$/NDF: 115173.1/18

Left In: 105.123+/-0.033 $\chi^2$/NDF:184045.1/5

Left: 103.029+/-0.023 $\chi^2$/NDF: 349858.5/12

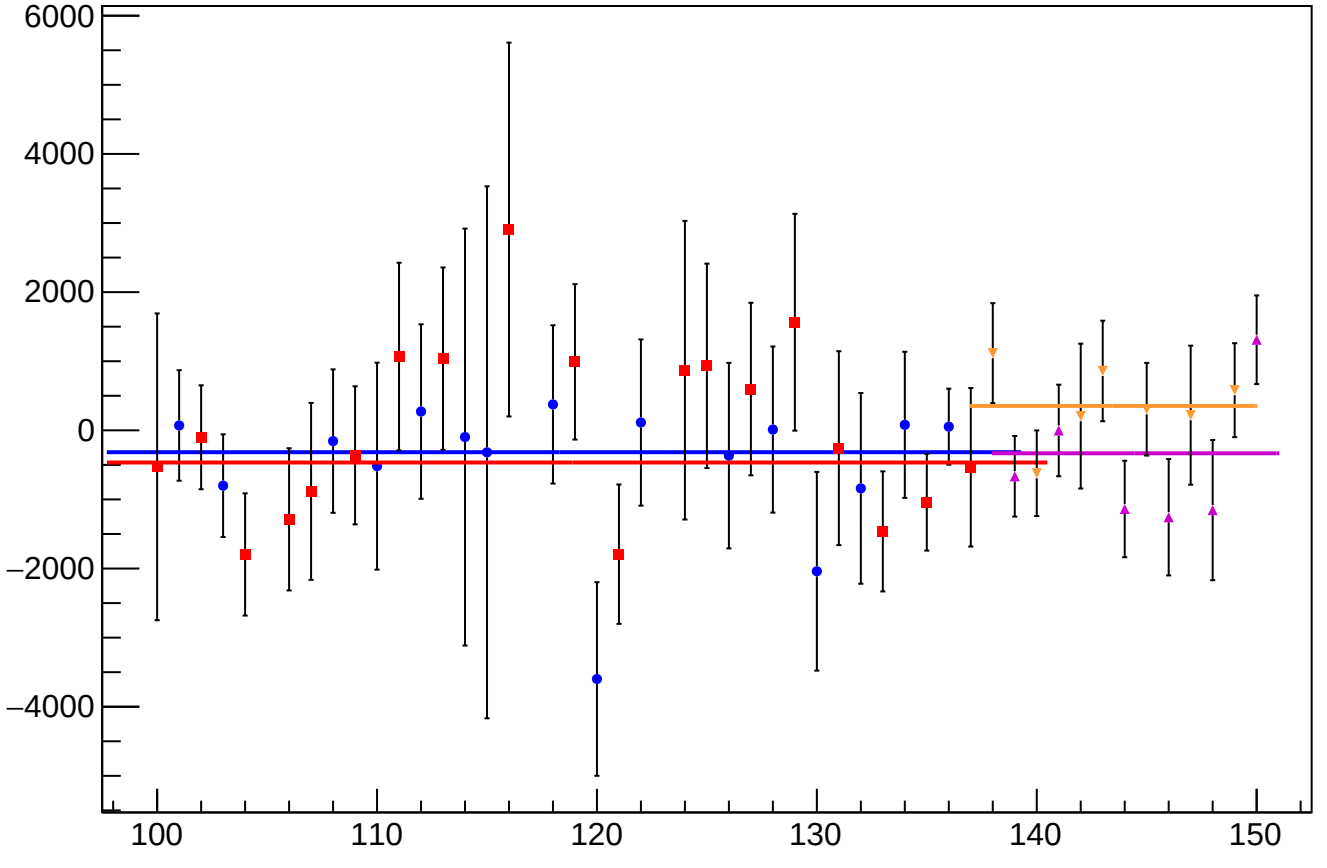
Right: 97.284+/-0.018 $\chi^2$/NDF: 256476.1/34

In: 100.583+/-0.020 $\chi^2$/NDF:355955.7/21

Out: 98.527+/-0.020 $\chi^2$/NDF:284686.5/25

All: 99.517+/-0.014 $\chi^2$/NDF: 645980.9/47

asym_sam_15_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -316.570+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 353.009+/-280.691 $\chi^2$/NDF:4.2/6

Right Out: -465.576+/-256.645 $\chi^2$/NDF: 16.5/18

Left In: -332.009+/-287.699 $\chi^2$/NDF:10.3/5

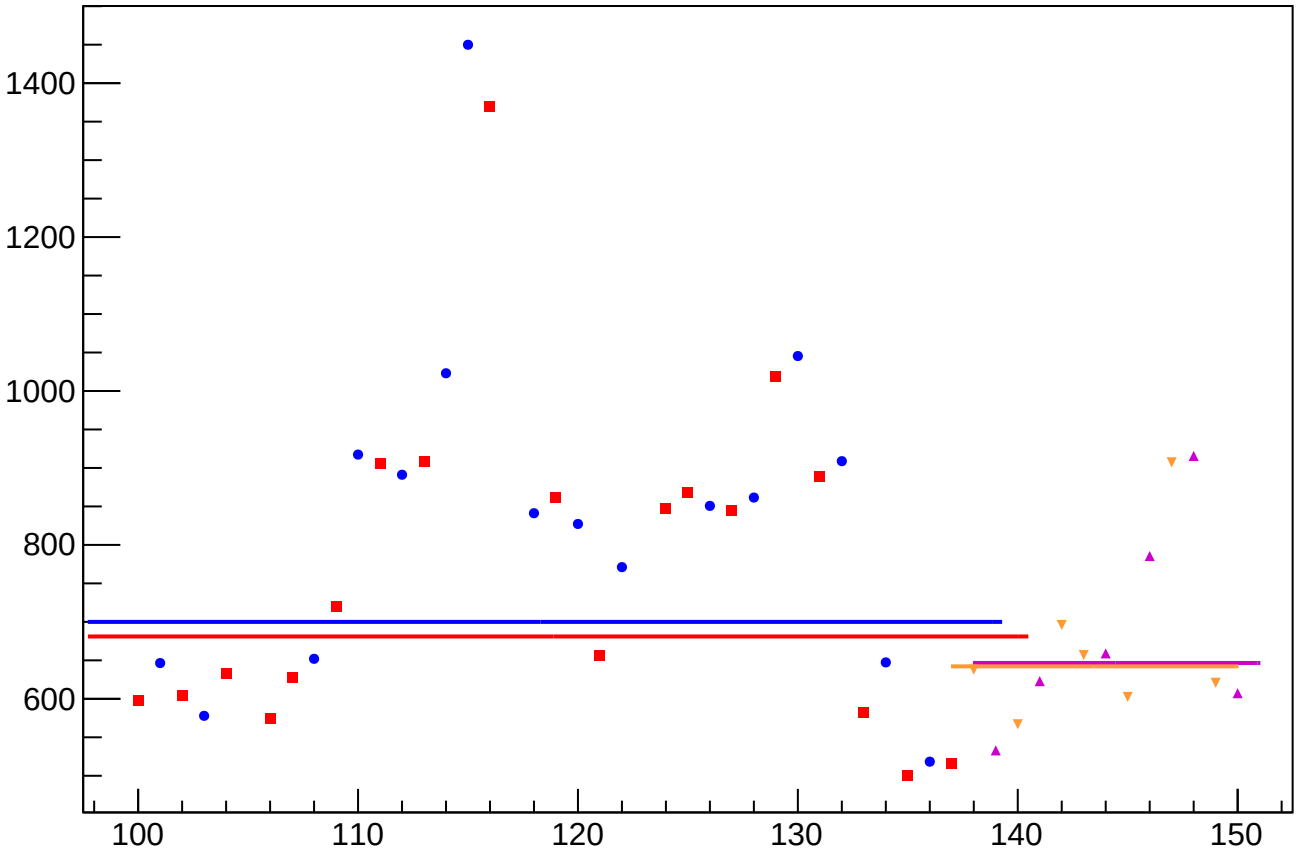
Left: 18.944+/-200.910 $\chi^2$/NDF: 17.5/12

Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -323.729+/-195.909 $\chi^2$/NDF:19.5/21

Out: -92.842+/-189.407 $\chi^2$/NDF:25.3/25

All: -204.391+/-136.172 $\chi^2$/NDF: 45.5/47




Right In: 699.971+/-0.189 $\chi^2$/NDF: 753668.1/15

Left Out: 642.169+/-0.198 $\chi^2$/NDF:183527.9/6

Right Out: 681.015+/-0.181 $\chi^2$/NDF: 769400.5/18

Left In: 646.601+/-0.203 $\chi^2$/NDF:281648.1/5

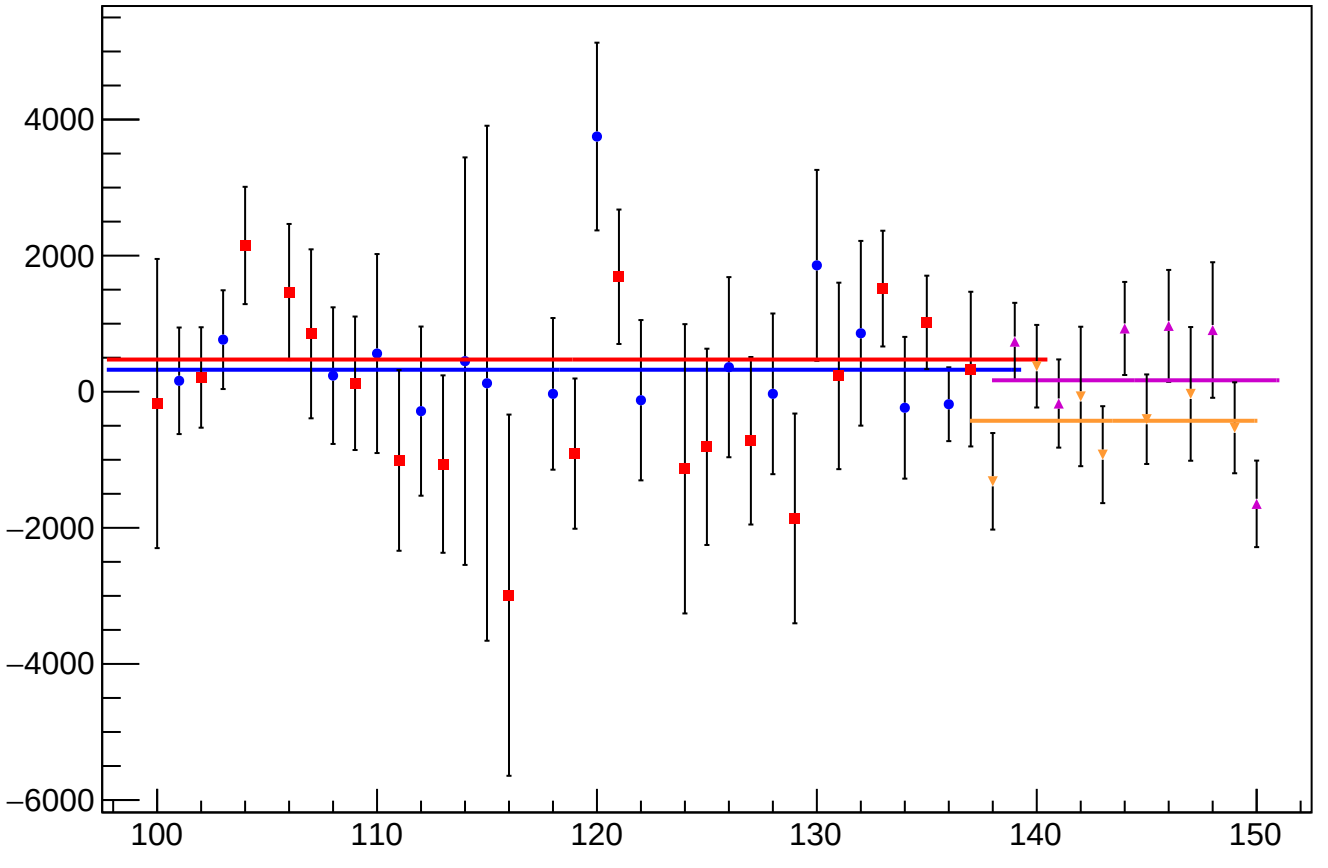
Left: 644.330+/-0.142 $\chi^2$/NDF: 465419.1/12

Right: 690.100+/-0.131 $\chi^2$/NDF: 1528298.1/34

In: 675.224+/-0.139 $\chi^2$/NDF:1072228.1/21

Out: 663.327+/-0.134 $\chi^2$/NDF:973791.7/25

All: 669.075+/-0.096 $\chi^2$/NDF: 2049832.0/47




Right In: 323.198+/-262.332 $\chi^2$/NDF: 9.7/15

Left Out: -426.739+/-275.139 $\chi^2$/NDF:4.1/6

Right Out: 473.233+/-251.330 $\chi^2$/NDF: 19.4/18

Left In: 168.224+/-282.181 $\chi^2$/NDF:12.2/5

Left: -136.774+/-196.995 $\chi^2$/NDF: 18.6/12

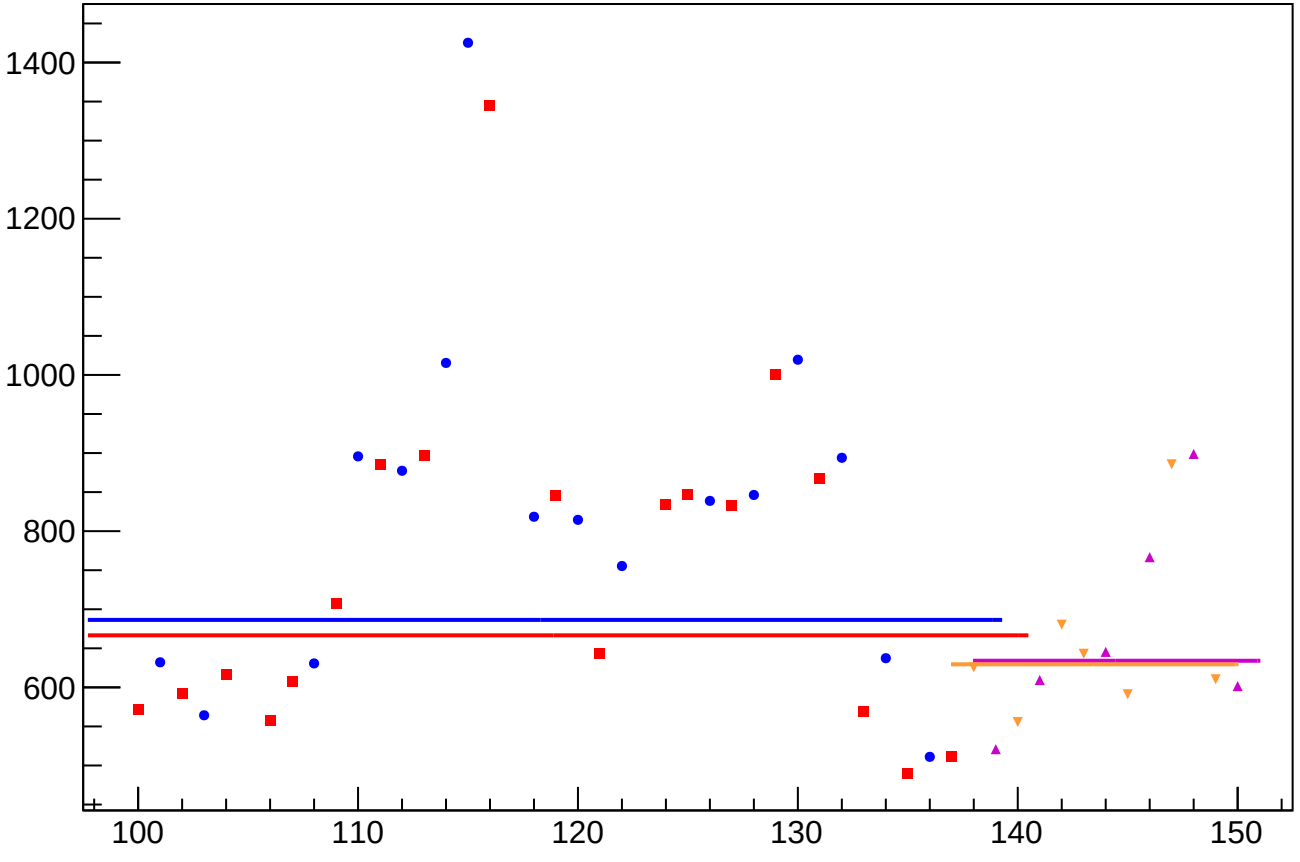
Right: 401.428+/-181.482 $\chi^2$/NDF: 29.3/34

In: 251.353+/-192.131 $\chi^2$/NDF:22.0/21

Out: 63.864+/-185.564 $\chi^2$/NDF:29.4/25

All: 154.349+/-133.475 $\chi^2$/NDF: 51.9/47

# asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 686.394+/-0.185 $\chi^2$/NDF: 749454.8/15

Left Out: 629.532+/-0.195 $\chi^2$/NDF:179691.2/6

Right Out: 666.634+/-0.178 $\chi^2$/NDF: 777033.6/18

Left In: 634.082+/-0.200 $\chi^2$/NDF:280968.2/5

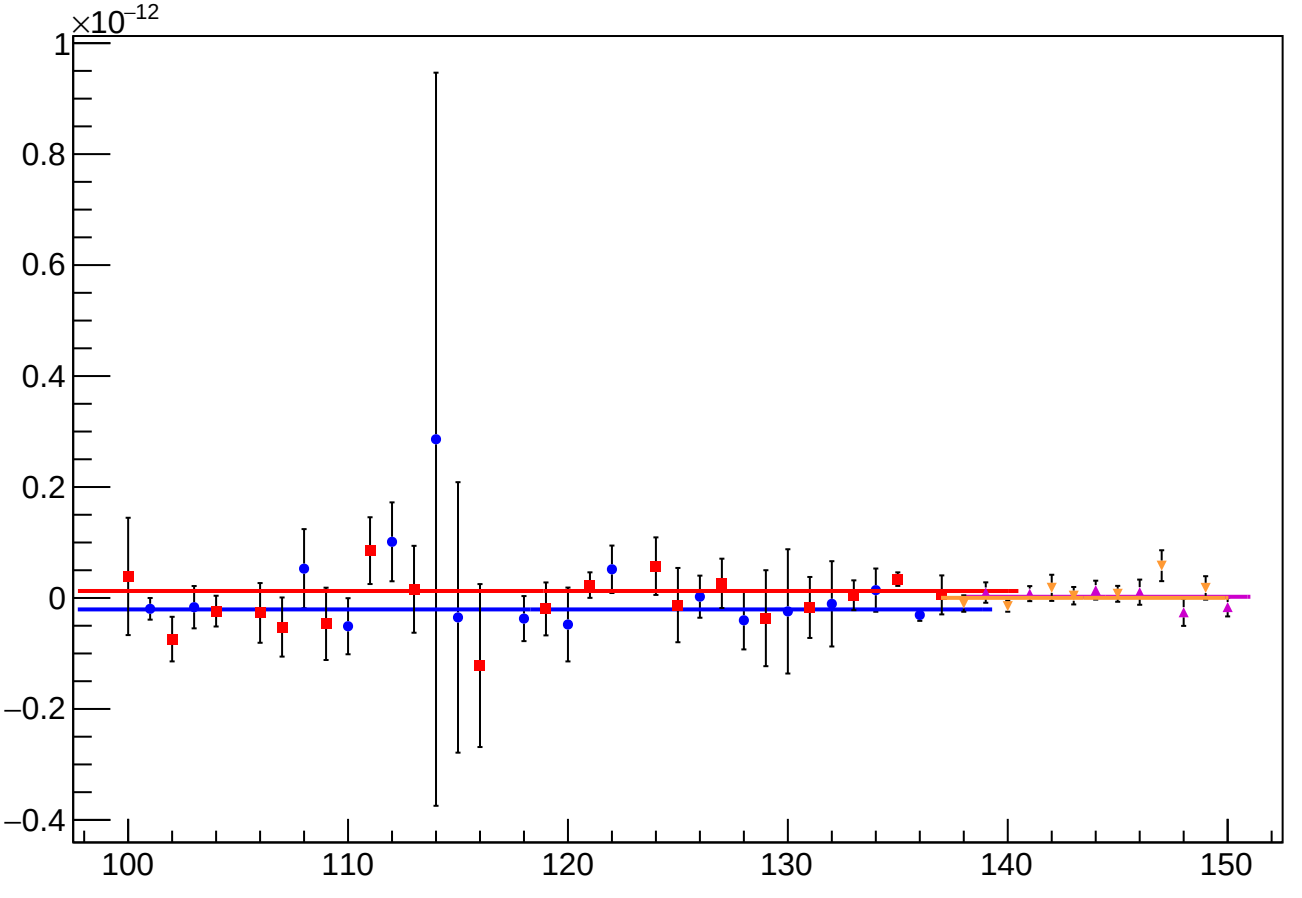
Left: 631.750+/-0.139 $\chi^2$/NDF: 460926.2/12

Right: 676.091+/-0.128 $\chi^2$/NDF: 1532404.9/34

In: 662.143+/-0.136 $\chi^2$/NDF:1067292.3/21

Out: 649.758+/-0.131 $\chi^2$/NDF:976551.3/25

All: 655.735+/-0.094 $\chi^2$/NDF: 2048143.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.5/5

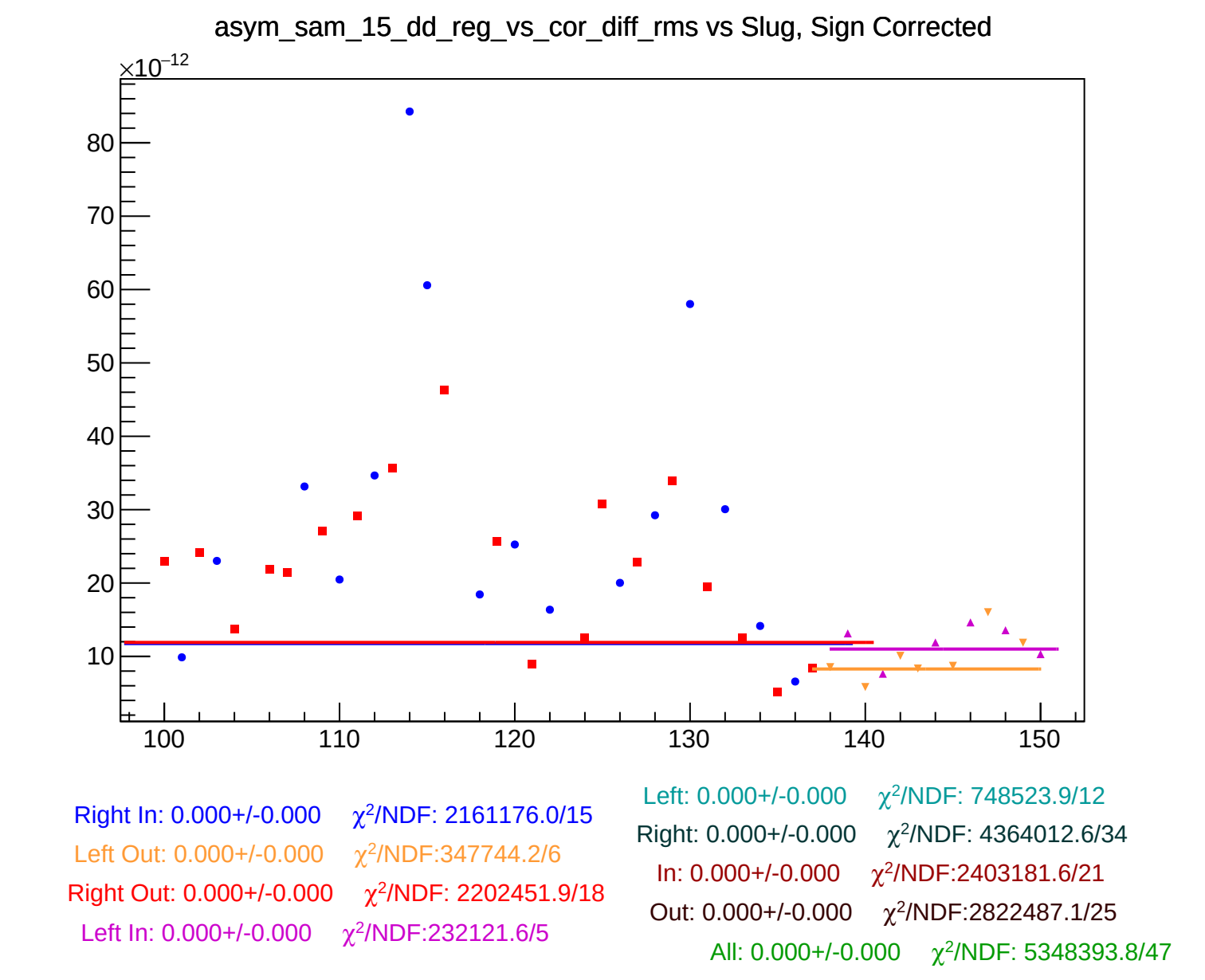
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.2/12

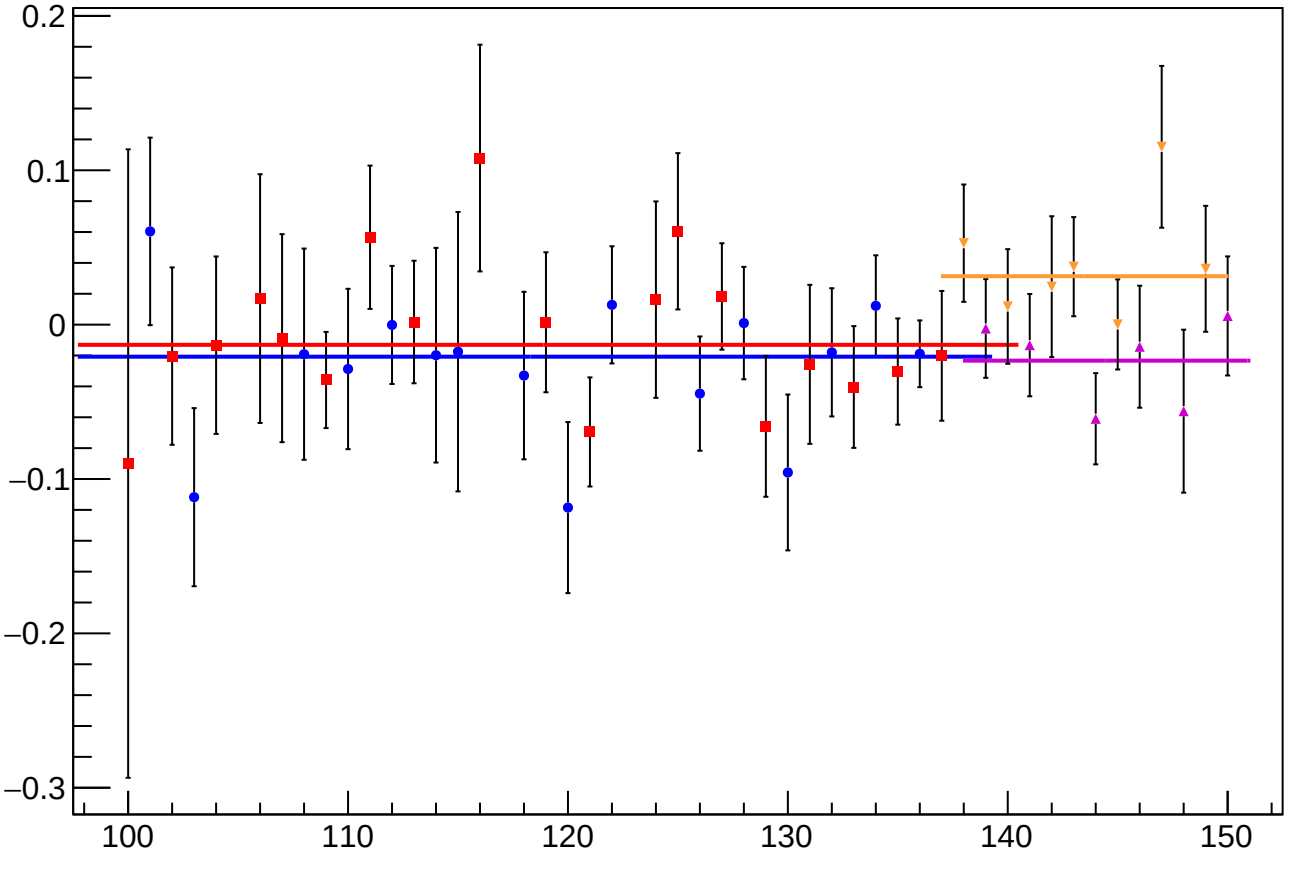
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.8/47


asym_sam_15_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2161176.0/15
Left Out: 0.000+/-0.000 χ²/NDF:347744.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 2202451.9/18
Left In: 0.000+/-0.000 χ²/NDF:232121.6/5
Left: 0.000+/-0.000 χ²/NDF: 748523.9/12
Right: 0.000+/-0.000 χ²/NDF: 4364012.6/34
In: 0.000+/-0.000 χ²/NDF:2403181.6/21
Out: 0.000+/-0.000 χ²/NDF:2822487.1/25
All: 0.000+/-0.000 χ²/NDF: 5348393.8/47




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.031+/-0.014 $\chi^2$/NDF:4.4/6

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.023+/-0.015 $\chi^2$/NDF:3.1/5

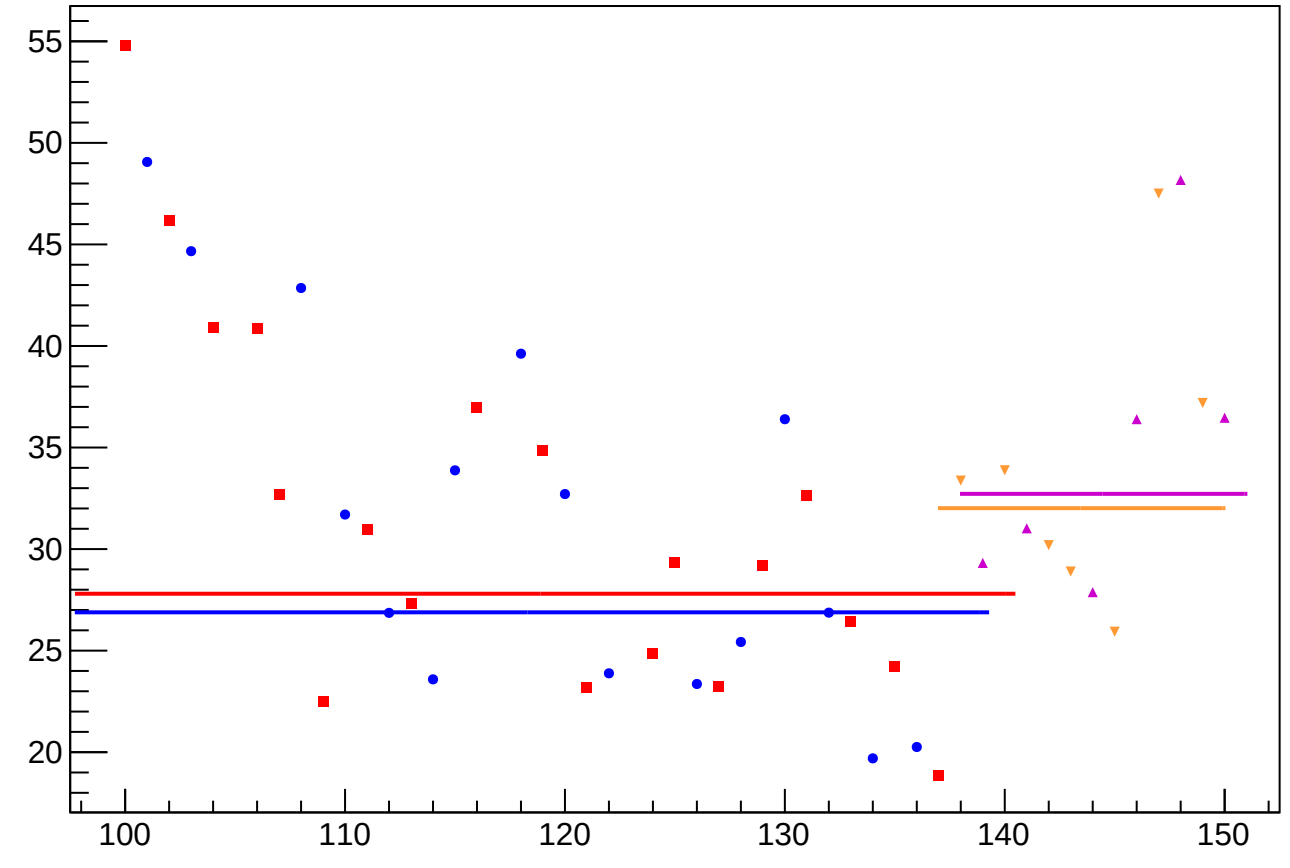
Left: 0.005+/-0.010 $\chi^2$/NDF: 14.8/12

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.022+/-0.009 $\chi^2$/NDF:15.7/21

Out: 0.003+/-0.008 $\chi^2$/NDF:24.6/25

All: -0.009+/-0.006 $\chi^2$/NDF: 44.5/47




Right In: 26.886+/-0.007 $\chi^2$/NDF: 1120557.7/15

Left Out: 32.015+/-0.010 $\chi^2$/NDF:323570.5/6

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 32.720+/-0.010 $\chi^2$/NDF:289125.6/5

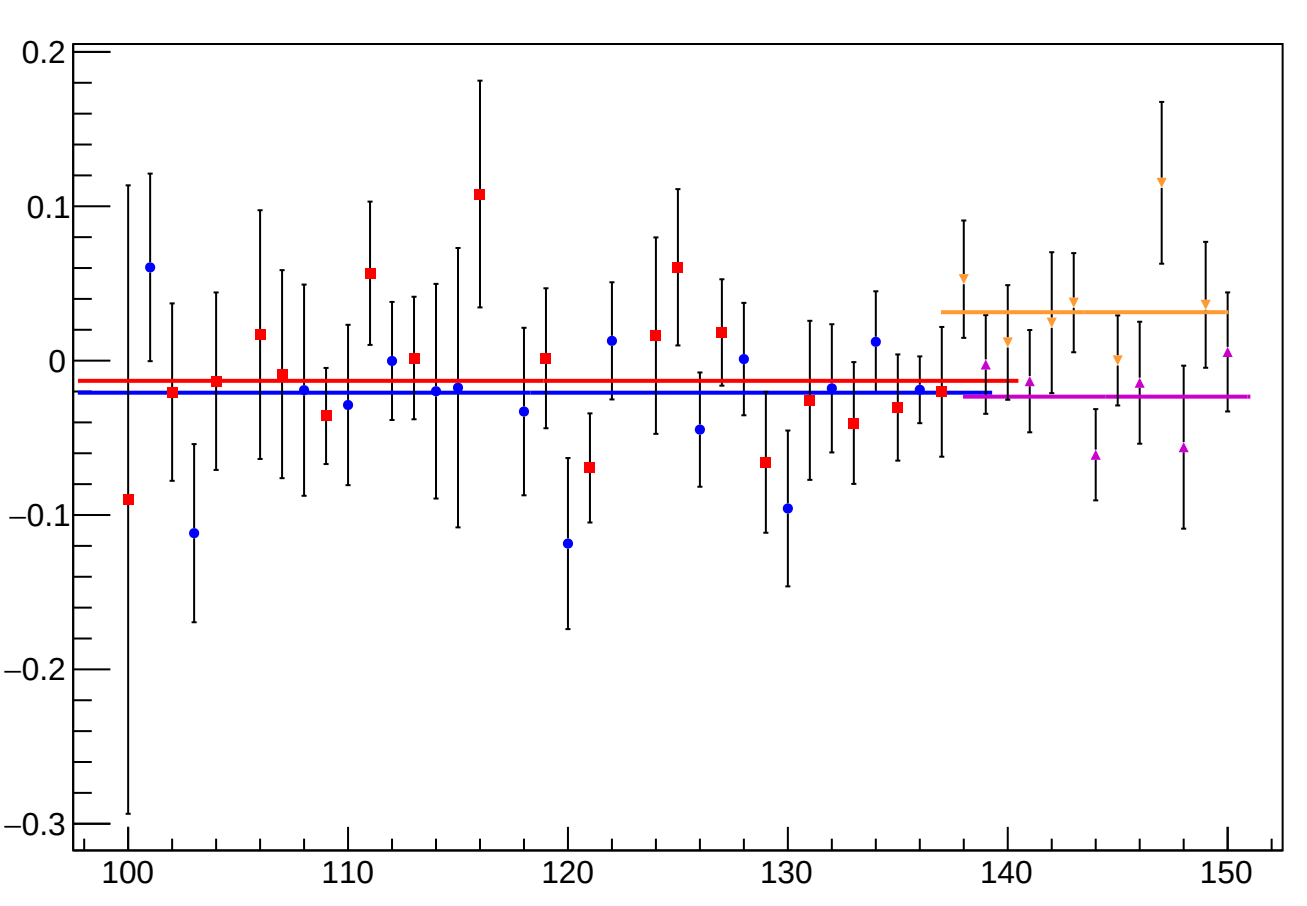
Left: 32.356+/-0.007 $\chi^2$/NDF: 615112.8/12

Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 28.881+/-0.006 $\chi^2$/NDF:1620488.2/21

Out: 29.308+/-0.006 $\chi^2$/NDF:1200874.7/25

All: 29.097+/-0.004 $\chi^2$/NDF: 2823891.6/47




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.031+/-0.014 $\chi^2$/NDF:4.4/6

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.023+/-0.015 $\chi^2$/NDF:3.1/5

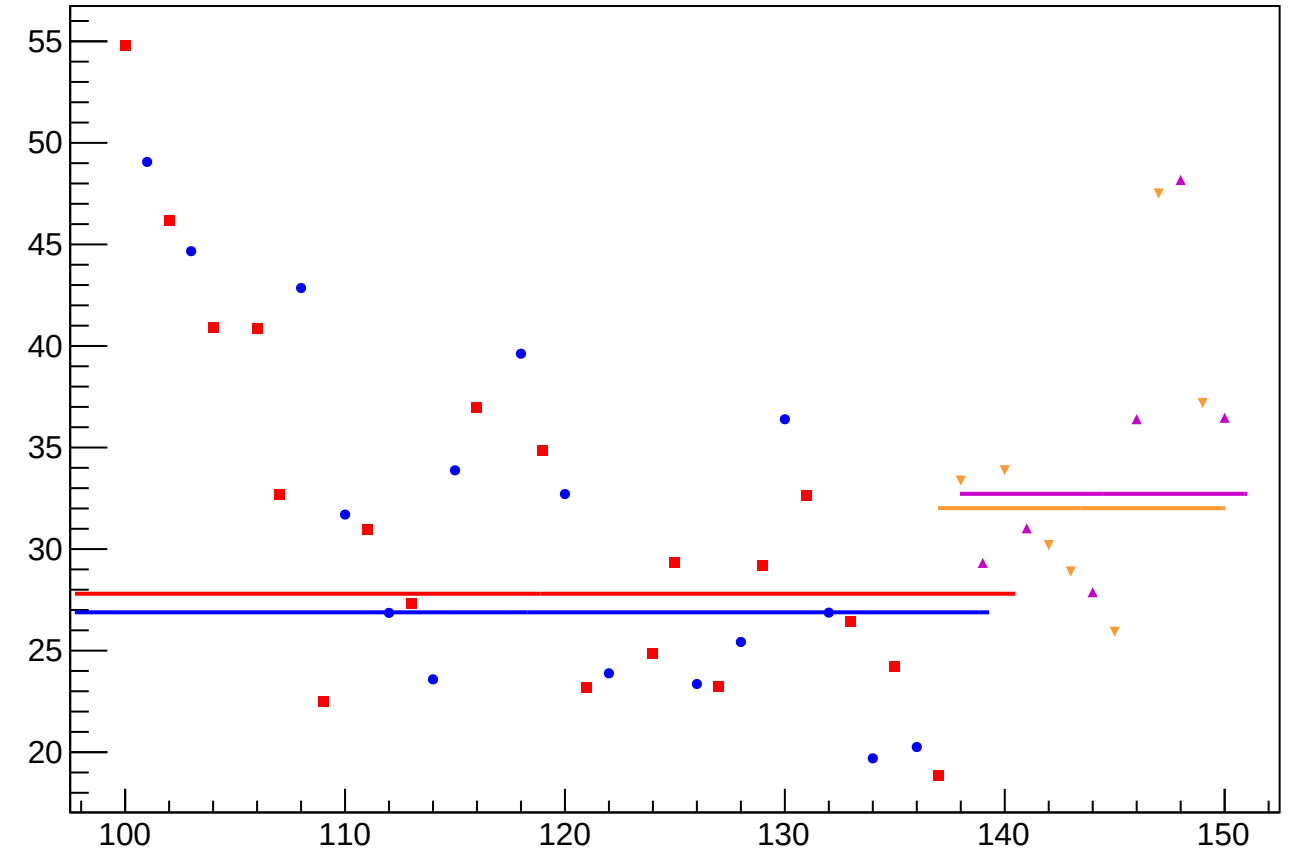
Left: 0.005+/-0.010 $\chi^2$/NDF: 14.8/12

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.022+/-0.009 $\chi^2$/NDF:15.7/21

Out: 0.003+/-0.008 $\chi^2$/NDF:24.6/25

All: -0.009+/-0.006 $\chi^2$/NDF: 44.5/47




Right In: 26.886+/-0.007 $\chi^2$/NDF: 1120557.7/15

Left Out: 32.015+/-0.010 $\chi^2$/NDF:323570.5/6

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 32.720+/-0.010 $\chi^2$/NDF:289125.6/5

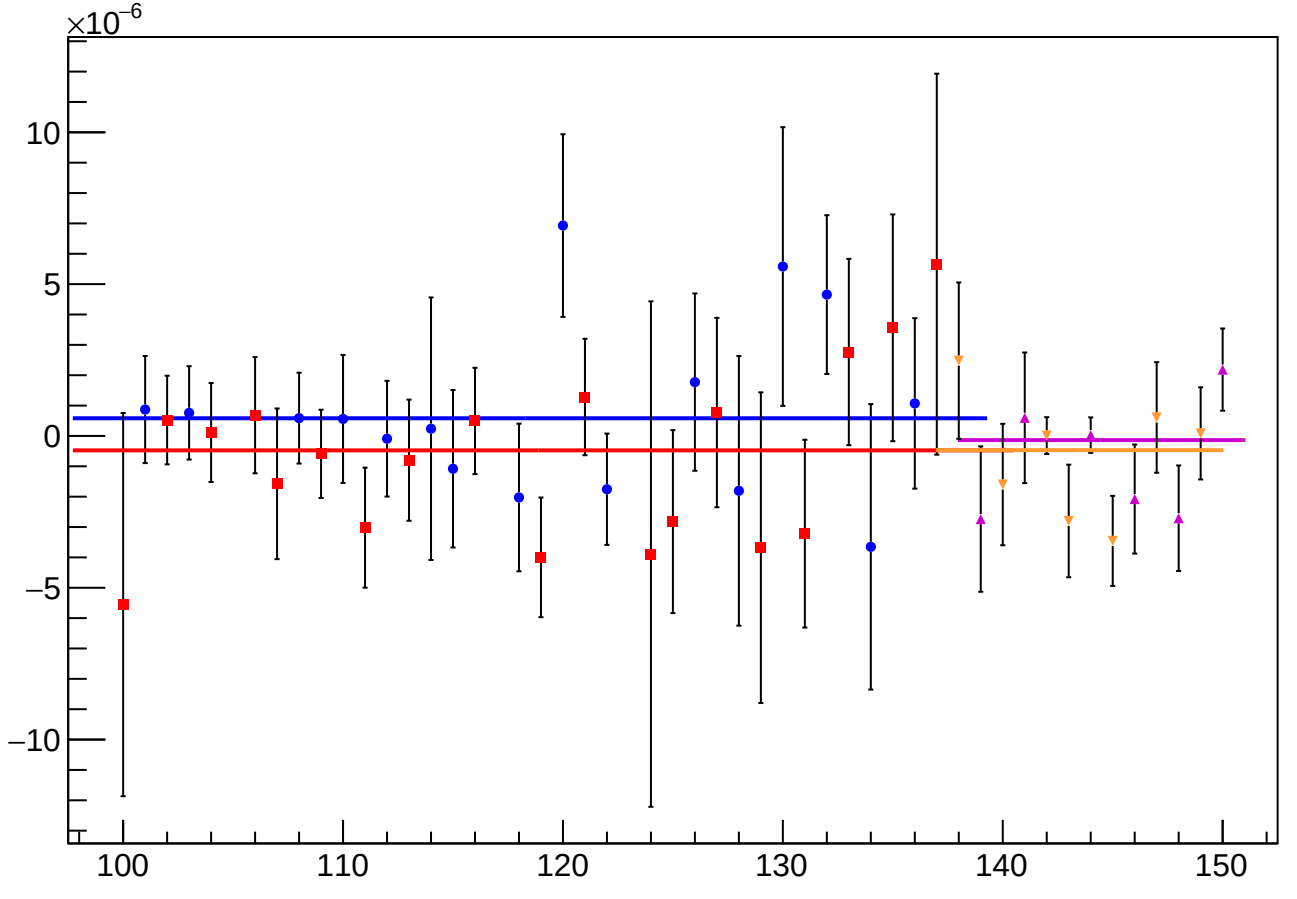
Left: 32.356+/-0.007 $\chi^2$/NDF: 615112.8/12

Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 28.881+/-0.006 $\chi^2$/NDF:1620488.2/21

Out: 29.308+/-0.006 $\chi^2$/NDF:1200874.7/25

All: 29.097+/-0.004 $\chi^2$/NDF: 2823891.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.7/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 16.3/12

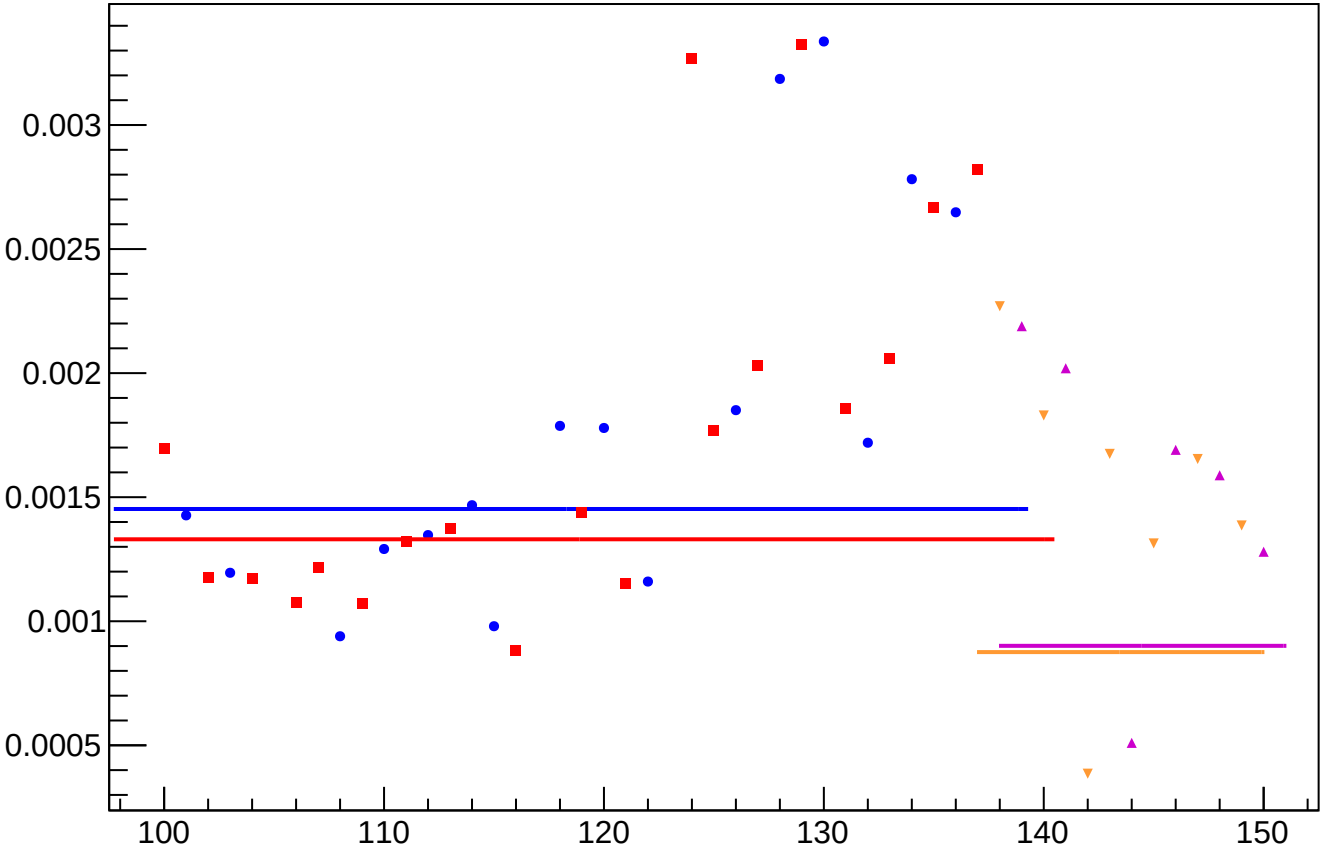
Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:21.6/25

All: -0.000+/-0.000 $\chi^2$/NDF: 44.4/47

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1710487.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:3487211.4/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 1402821.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:2873491.8/5

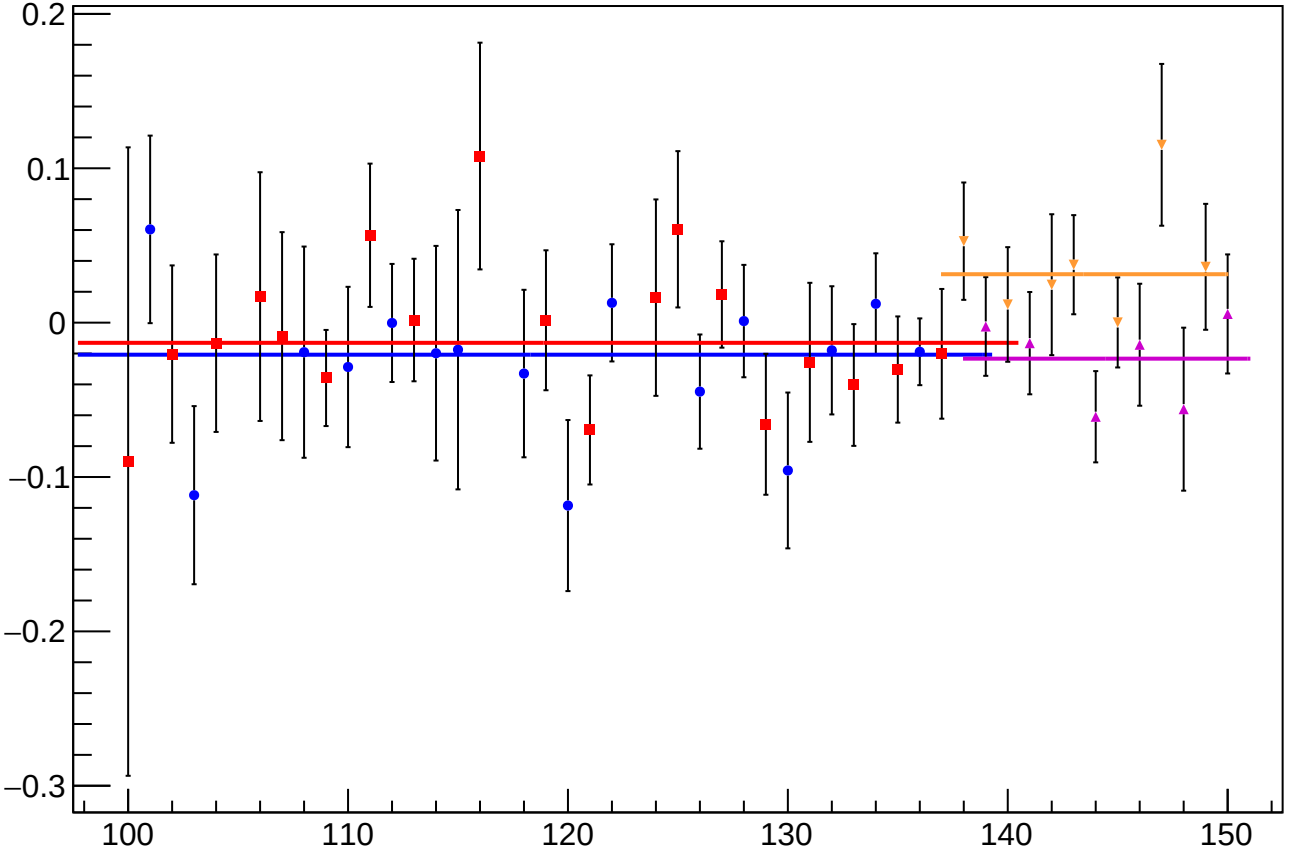
Left: 0.001+/-0.000 $\chi^2$/NDF: 6363605.0/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 3162860.5/34

In: 0.001+/-0.000 $\chi^2$/NDF:5680618.7/21

Out: 0.001+/-0.000 $\chi^2$/NDF:5740262.4/25

All: 0.001+/-0.000 $\chi^2$/NDF: 11435360.6/47




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.031+/-0.014 $\chi^2$/NDF:4.4/6

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.023+/-0.015 $\chi^2$/NDF:3.1/5

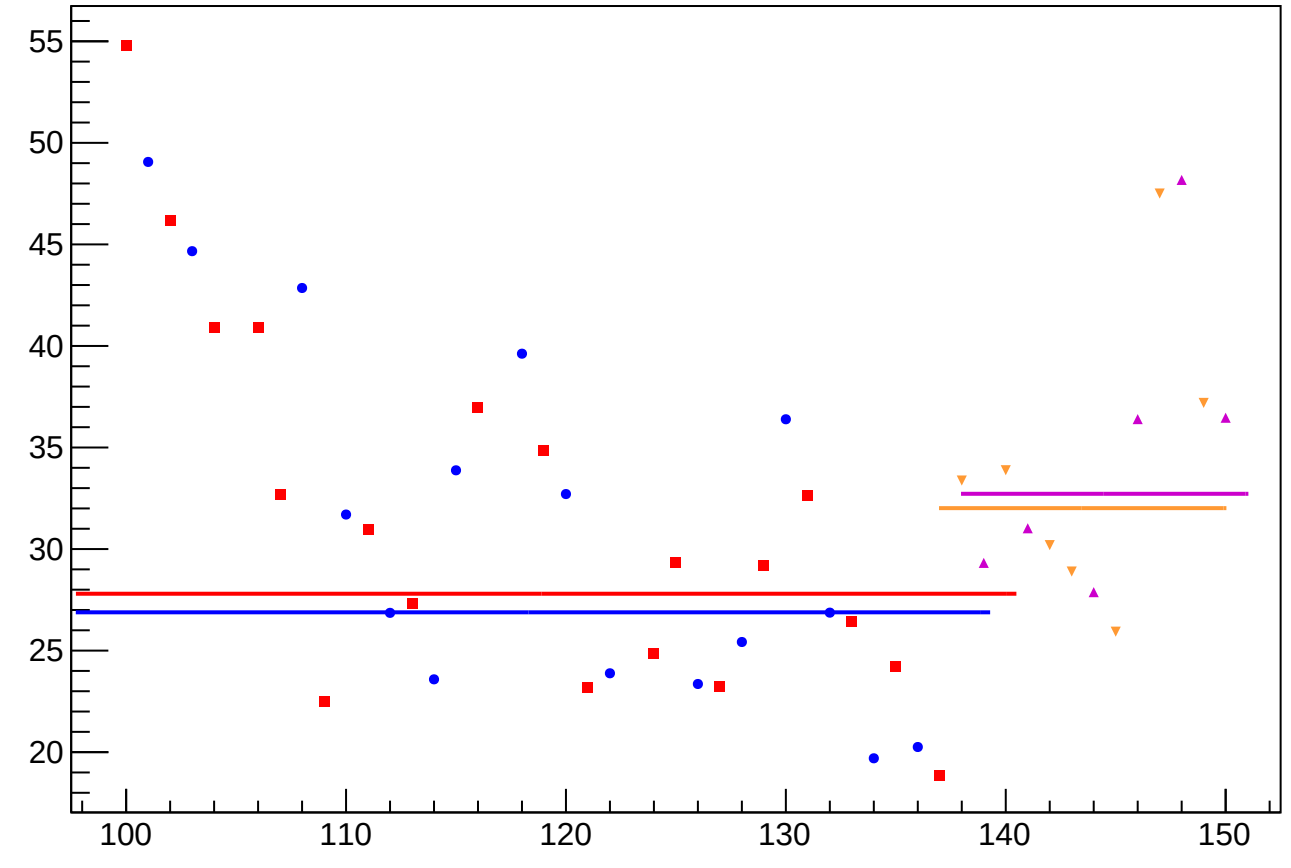
Left: 0.005+/-0.010 $\chi^2$/NDF: 14.8/12

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.022+/-0.009 $\chi^2$/NDF:15.7/21

Out: 0.003+/-0.008 $\chi^2$/NDF:24.6/25

All: -0.009+/-0.006 $\chi^2$/NDF: 44.5/47




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 32.015+/-0.010 $\chi^2$/NDF:323622.1/6

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 32.721+/-0.010 $\chi^2$/NDF:289131.3/5

Left: 32.357+/-0.007 $\chi^2$/NDF: 615174.0/12

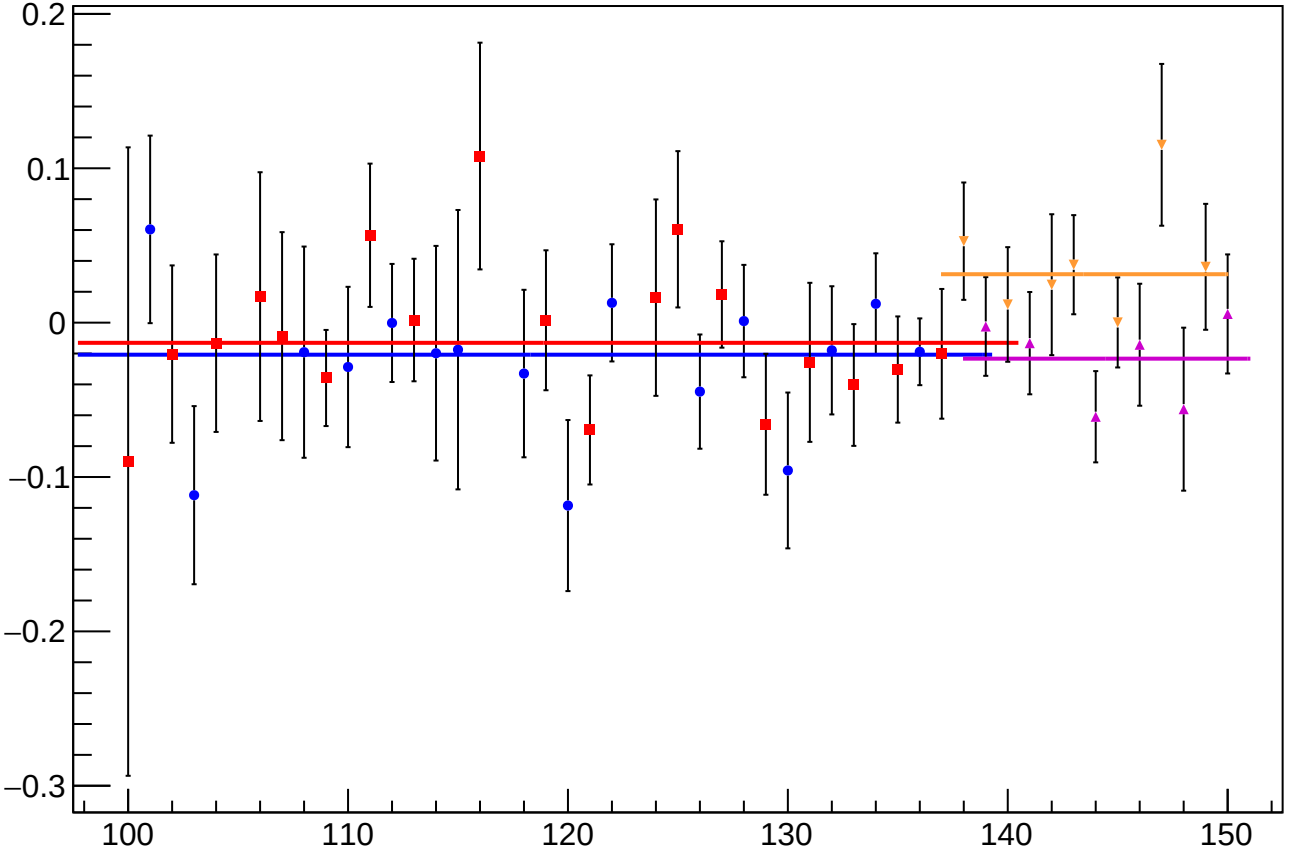
Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 28.881+/-0.006 $\chi^2$/NDF:1620617.1/21

Out: 29.307+/-0.006 $\chi^2$/NDF:1201116.9/25

All: 29.096+/-0.004 $\chi^2$/NDF: 2824257.5/47

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.031+/-0.014 $\chi^2$/NDF:4.4/6

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.023+/-0.015 $\chi^2$/NDF:3.1/5

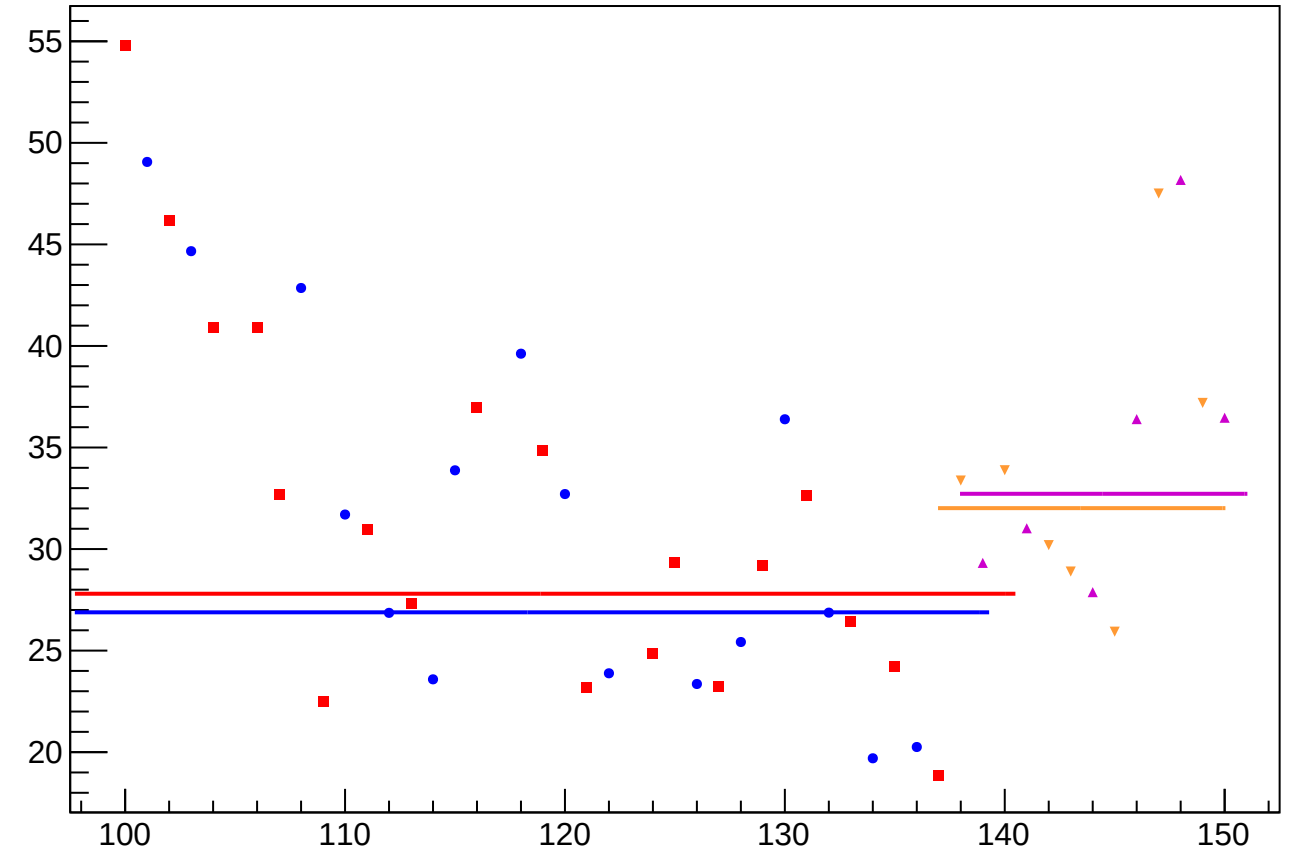
Left: 0.005+/-0.010 $\chi^2$/NDF: 14.8/12

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.022+/-0.009 $\chi^2$/NDF:15.7/21

Out: 0.003+/-0.008 $\chi^2$/NDF:24.6/25

All: -0.009+/-0.006 $\chi^2$/NDF: 44.5/47




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 32.015+/-0.010 $\chi^2$/NDF:323622.1/6

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 32.721+/-0.010 $\chi^2$/NDF:289131.3/5

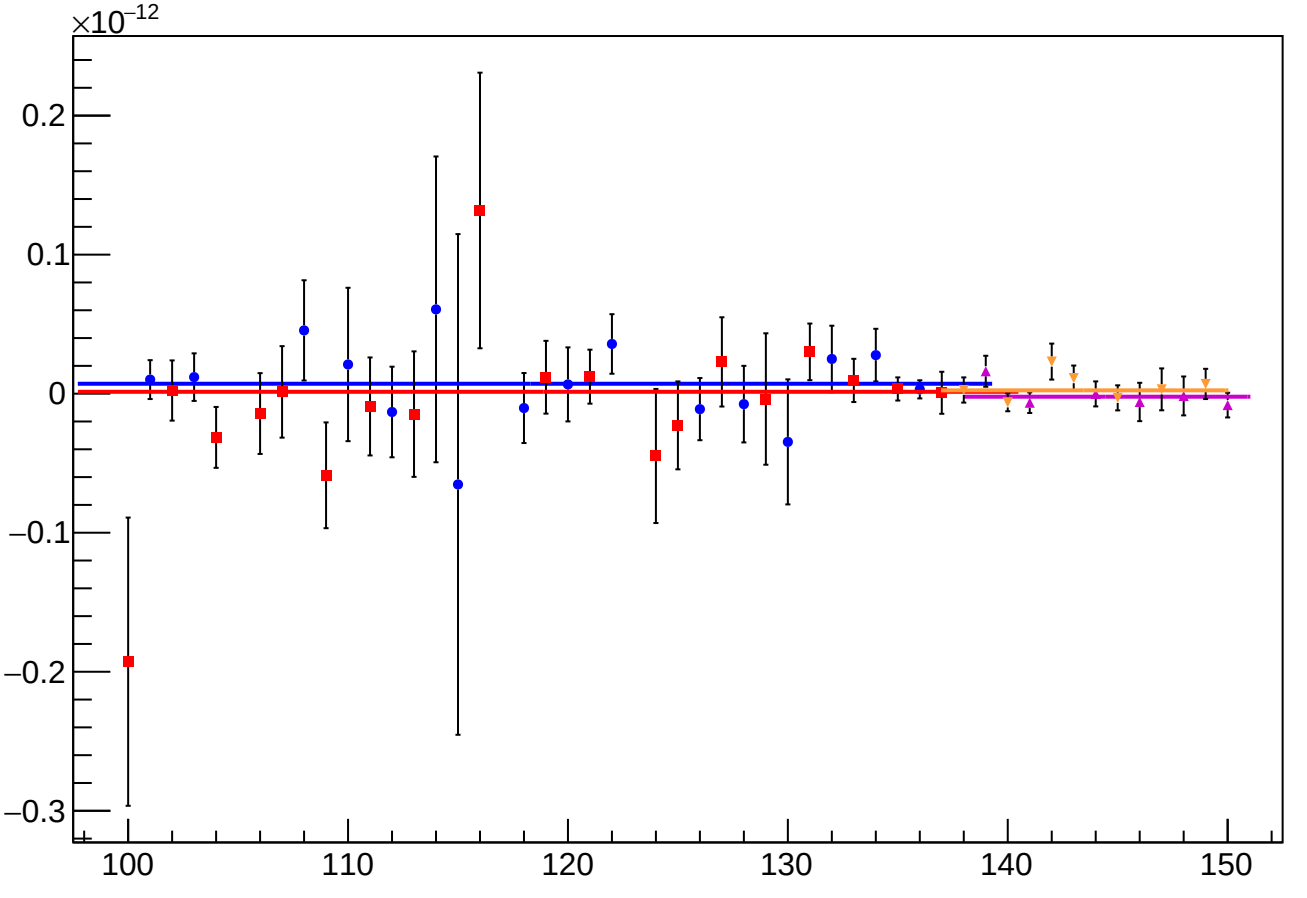
Left: 32.357+/-0.007 $\chi^2$/NDF: 615174.0/12

Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 28.881+/-0.006 $\chi^2$/NDF:1620617.1/21

Out: 29.307+/-0.006 $\chi^2$/NDF:1201116.9/25

All: 29.096+/-0.004 $\chi^2$/NDF: 2824257.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.6/5

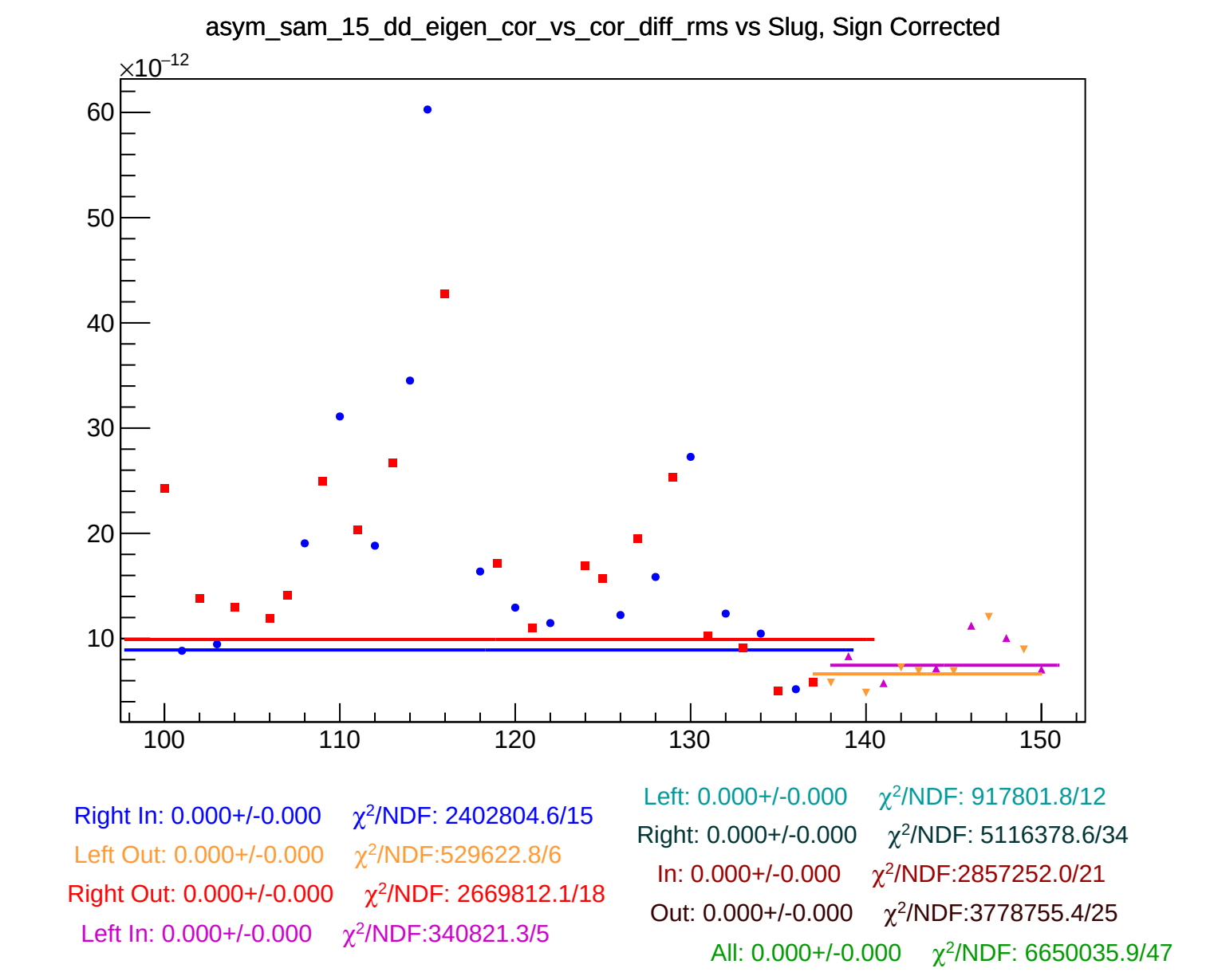
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.2/12

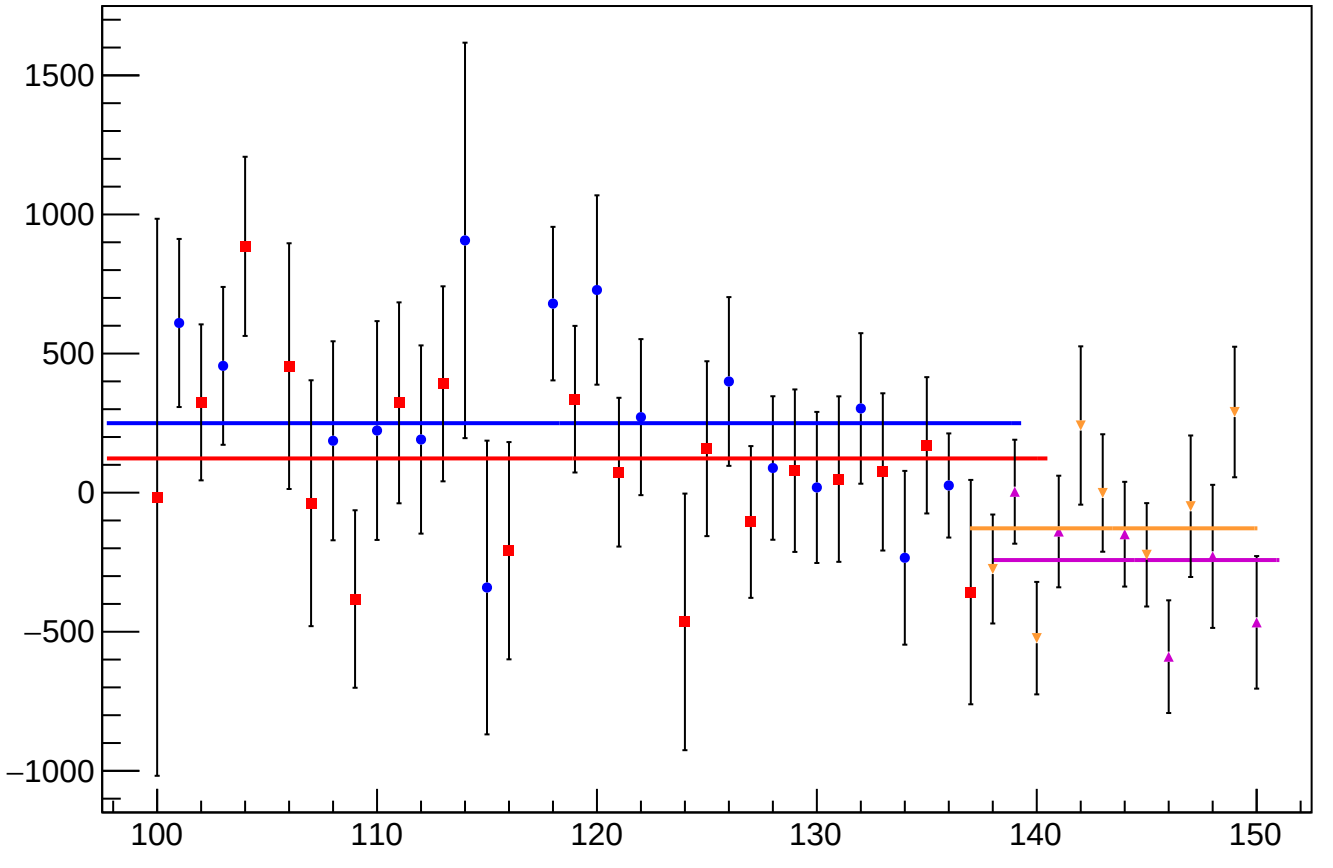
Right: 0.000+/-0.000 $\chi^2$/NDF: 24.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:14.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:21.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 35.4/47


asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2402804.6/15
Left Out: 0.000+/-0.000 χ²/NDF:529622.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 2669812.1/18
Left In: 0.000+/-0.000 χ²/NDF:340821.3/5
Left: 0.000+/-0.000 χ²/NDF: 917801.8/12
Right: 0.000+/-0.000 χ²/NDF: 5116378.6/34
In: 0.000+/-0.000 χ²/NDF:2857252.0/21
Out: 0.000+/-0.000 χ²/NDF:3778755.4/25
All: 0.000+/-0.000 χ²/NDF: 6650035.9/47




Right In: 249.761+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -128.212+/-82.227 $\chi^2$/NDF:10.0/6

Right Out: 122.993+/-74.370 $\chi^2$/NDF: 15.6/18

Left In: -242.266+/-84.878 $\chi^2$/NDF:6.1/5

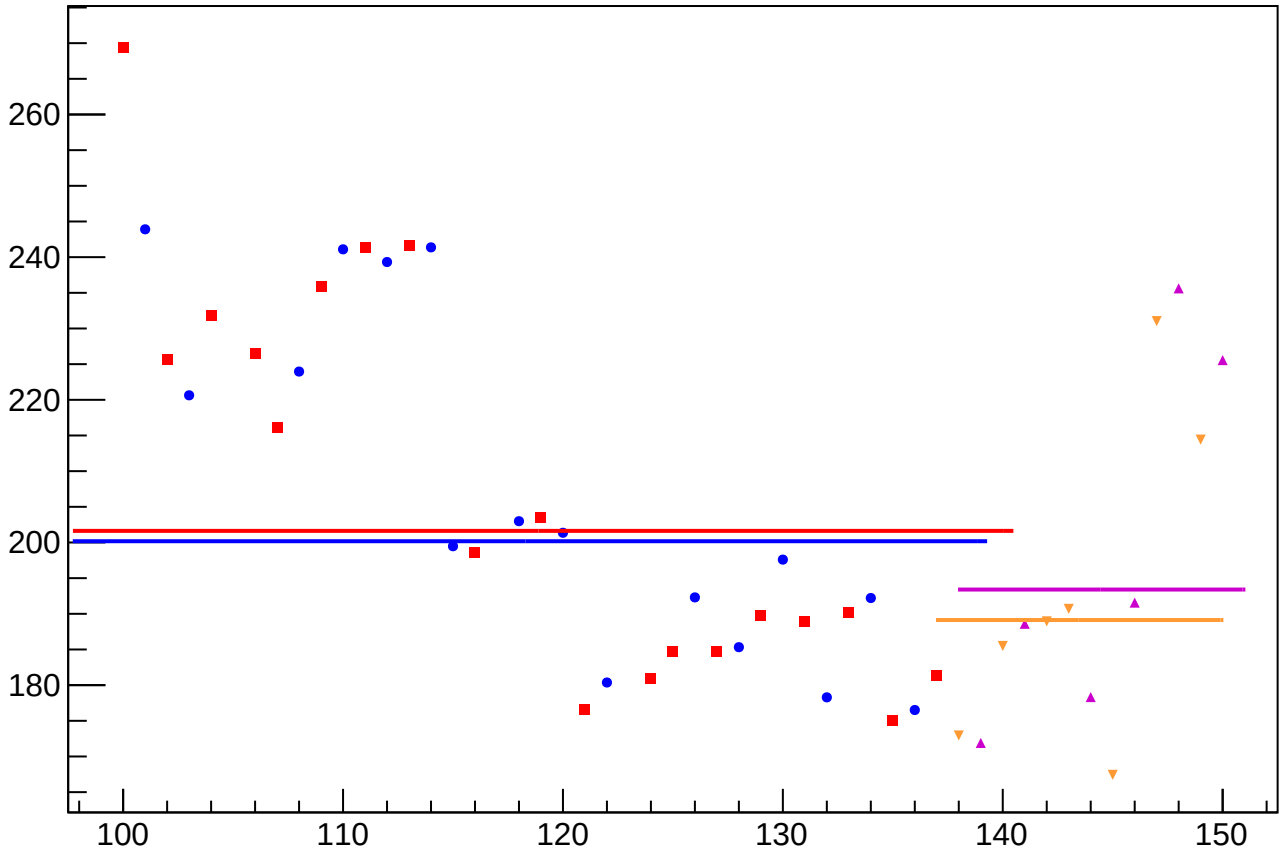
Left: -183.430+/-59.058 $\chi^2$/NDF: 16.9/12

Right: 185.946+/-52.766 $\chi^2$/NDF: 30.8/34

In: 34.428+/-56.151 $\chi^2$/NDF:38.7/21

Out: 9.963+/-55.156 $\chi^2$/NDF:30.6/25

All: 21.977+/-39.348 $\chi^2$/NDF: 69.5/47




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.3/15

Left Out: 189.131+/-0.058 $\chi^2$/NDF:119225.4/6

Right Out: 201.627+/-0.053 $\chi^2$/NDF: 197245.7/18

Left In: 193.403+/-0.060 $\chi^2$/NDF:130961.1/5

Left: 191.199+/-0.042 $\chi^2$/NDF: 252800.0/12

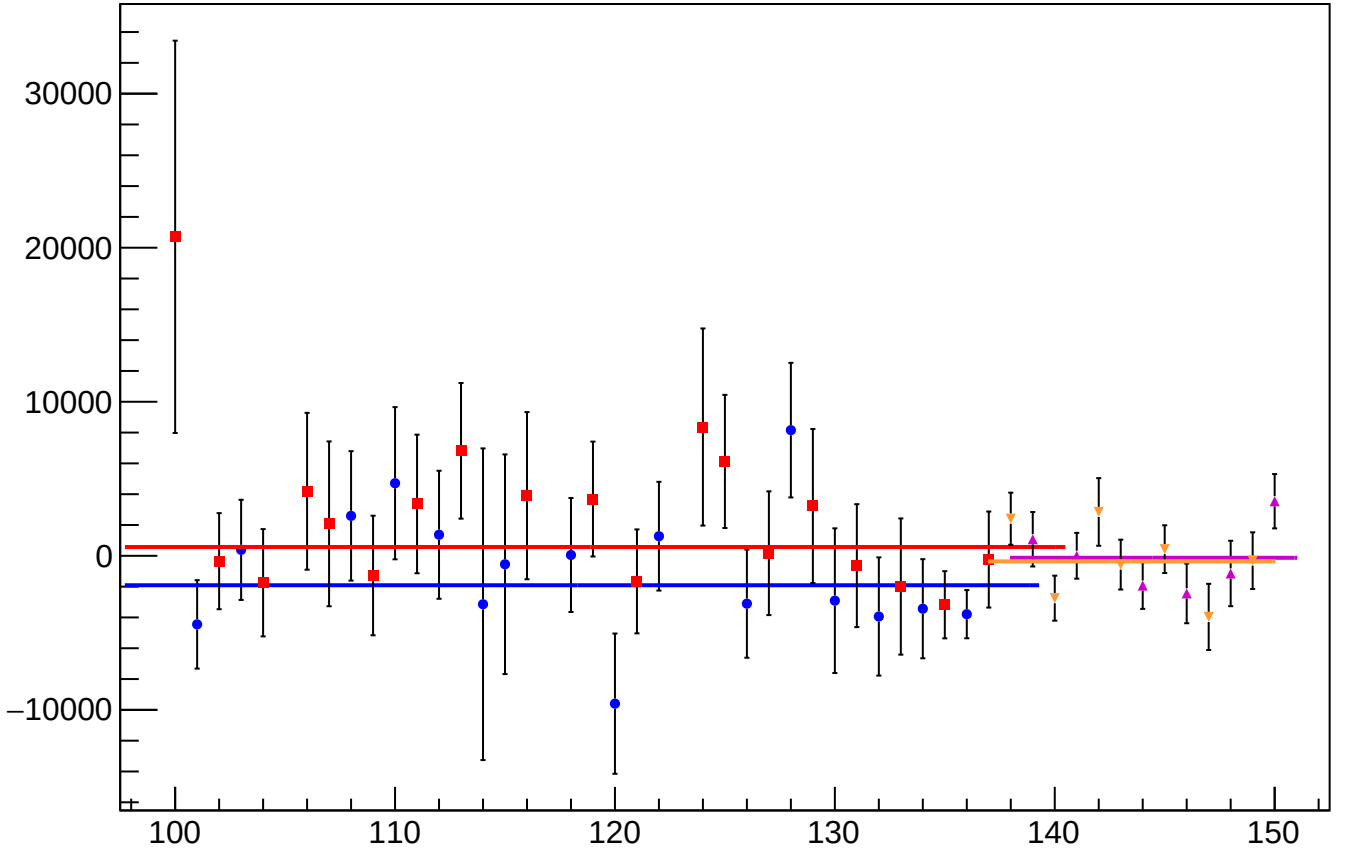
Right: 200.907+/-0.037 $\chi^2$/NDF: 378624.7/34

In: 197.212+/-0.040 $\chi^2$/NDF:319126.4/21

Out: 196.004+/-0.039 $\chi^2$/NDF:341879.0/25

All: 196.597+/-0.028 $\chi^2$/NDF: 661476.4/47

asym_sam_26_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -1910.348+/-859.088 $\chi^2$/NDF: 16.3/15

Left Out: -362.506+/-654.160 $\chi^2$/NDF:10.6/6

Right Out: 570.946+/-900.451 $\chi^2$/NDF: 14.6/18

Left In: -128.194+/-703.956 $\chi^2$/NDF:7.9/5

Left: -253.930+/-479.199 $\chi^2$/NDF: 18.5/12

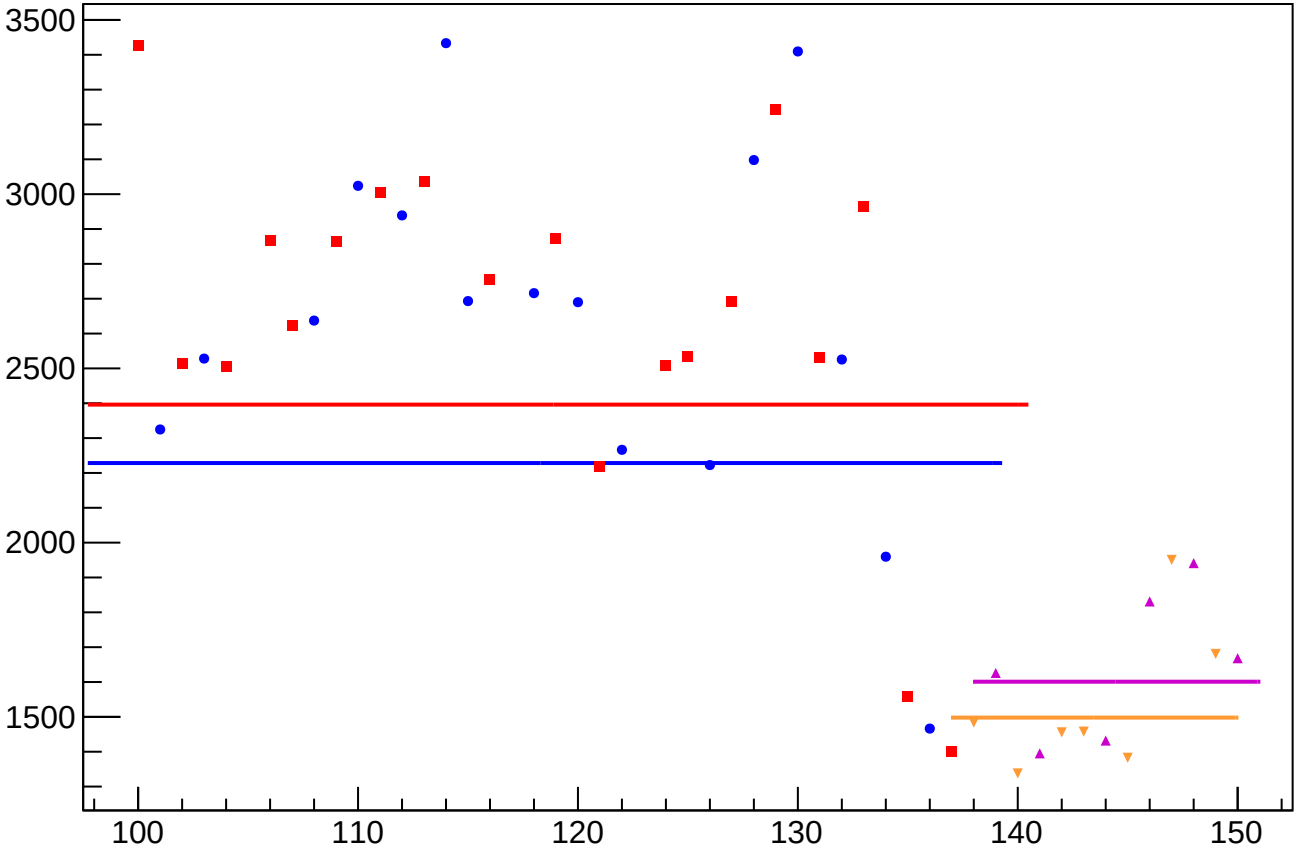
Right: -728.000+/-621.575 $\chi^2$/NDF: 34.9/34

In: -844.119+/-544.501 $\chi^2$/NDF:26.7/21

Out: -40.042+/-529.242 $\chi^2$/NDF:25.9/25

All: -430.657+/-379.511 $\chi^2$/NDF: 53.8/47

asym_sam_26_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 2228.431+/-0.607 $\chi^2$/NDF: 947654.8/15

Left Out: 1497.914+/-0.463 $\chi^2$/NDF:145933.2/6

Right Out: 2396.080+/-0.637 $\chi^2$/NDF: 799442.5/18

Left In: 1600.938+/-0.498 $\chi^2$/NDF:146057.8/5

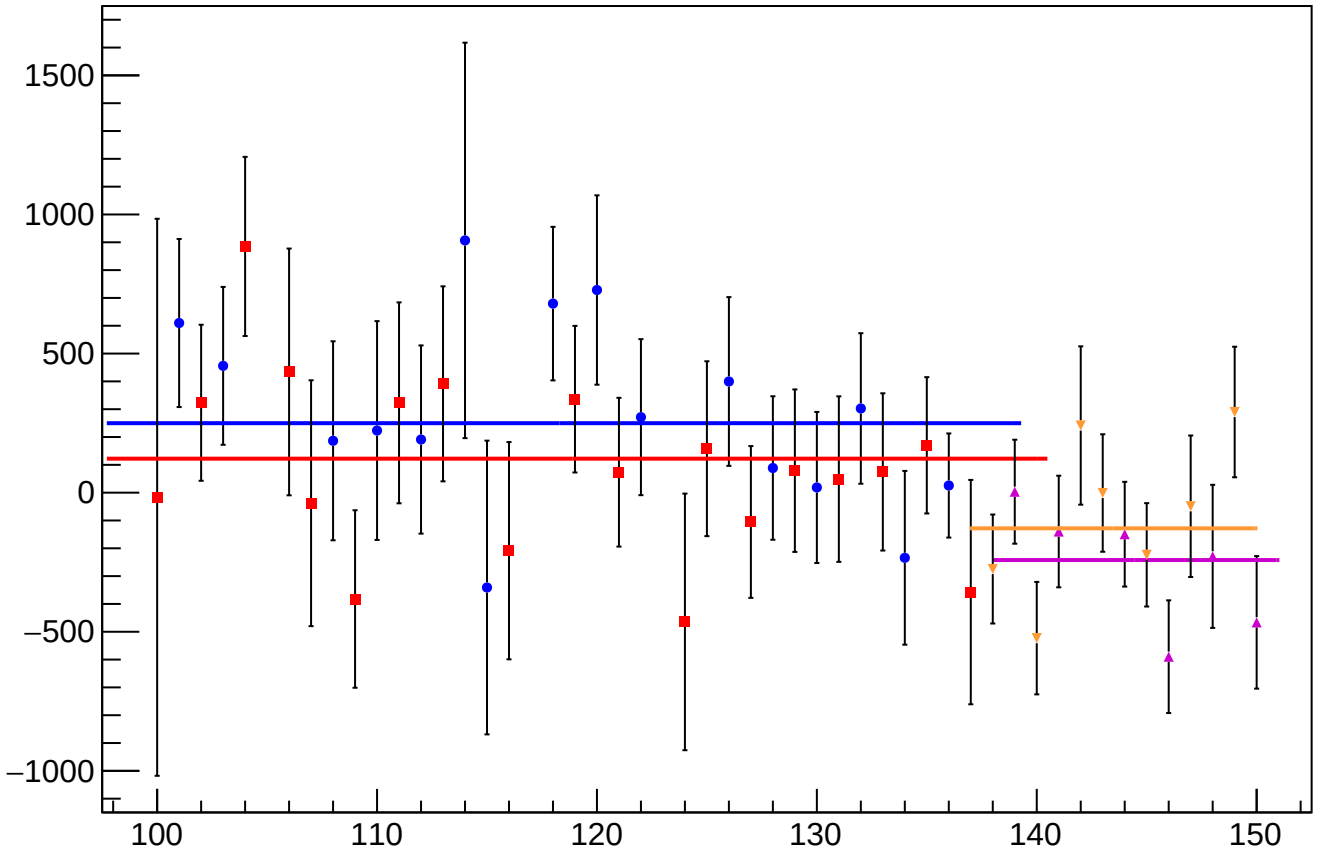
Left: 1545.654+/-0.339 $\chi^2$/NDF: 314977.9/12

Right: 2308.317+/-0.440 $\chi^2$/NDF: 1783390.1/34

In: 1853.014+/-0.385 $\chi^2$/NDF:1732091.2/21

Out: 1808.188+/-0.374 $\chi^2$/NDF:2247832.4/25

All: 1829.964+/-0.268 $\chi^2$/NDF: 3986893.6/47




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -128.215+/-82.227 $\chi^2$/NDF:10.0/6

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -242.263+/-84.878 $\chi^2$/NDF:6.1/5

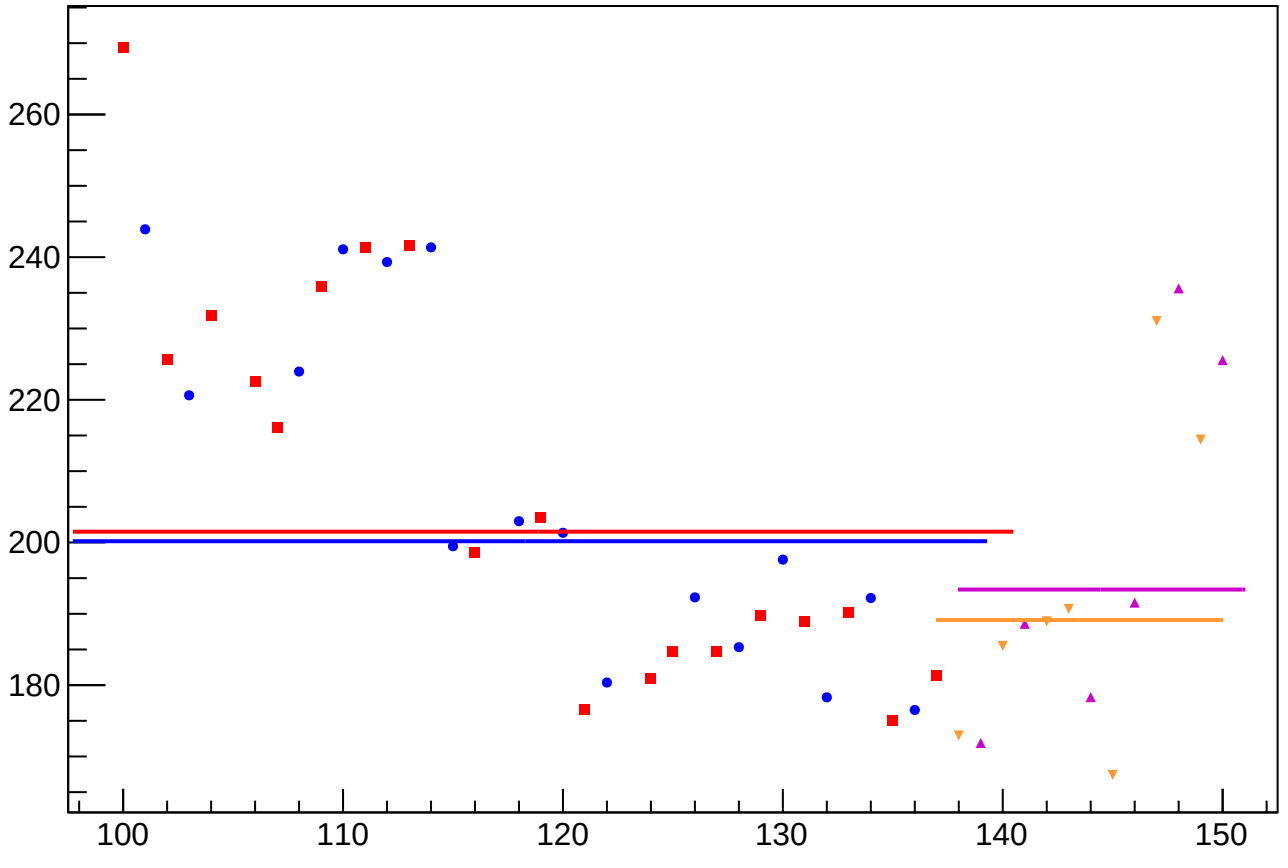
Left: -183.430+/-59.058 $\chi^2$/NDF: 16.9/12

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: 34.432+/-56.151 $\chi^2$/NDF:38.7/21

Out: 9.513+/-55.161 $\chi^2$/NDF:30.5/25

All: 21.751+/-39.350 $\chi^2$/NDF: 69.3/47




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 189.131+/-0.058 $\chi^2$/NDF:119225.4/6

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 193.403+/-0.060 $\chi^2$/NDF:130961.1/5

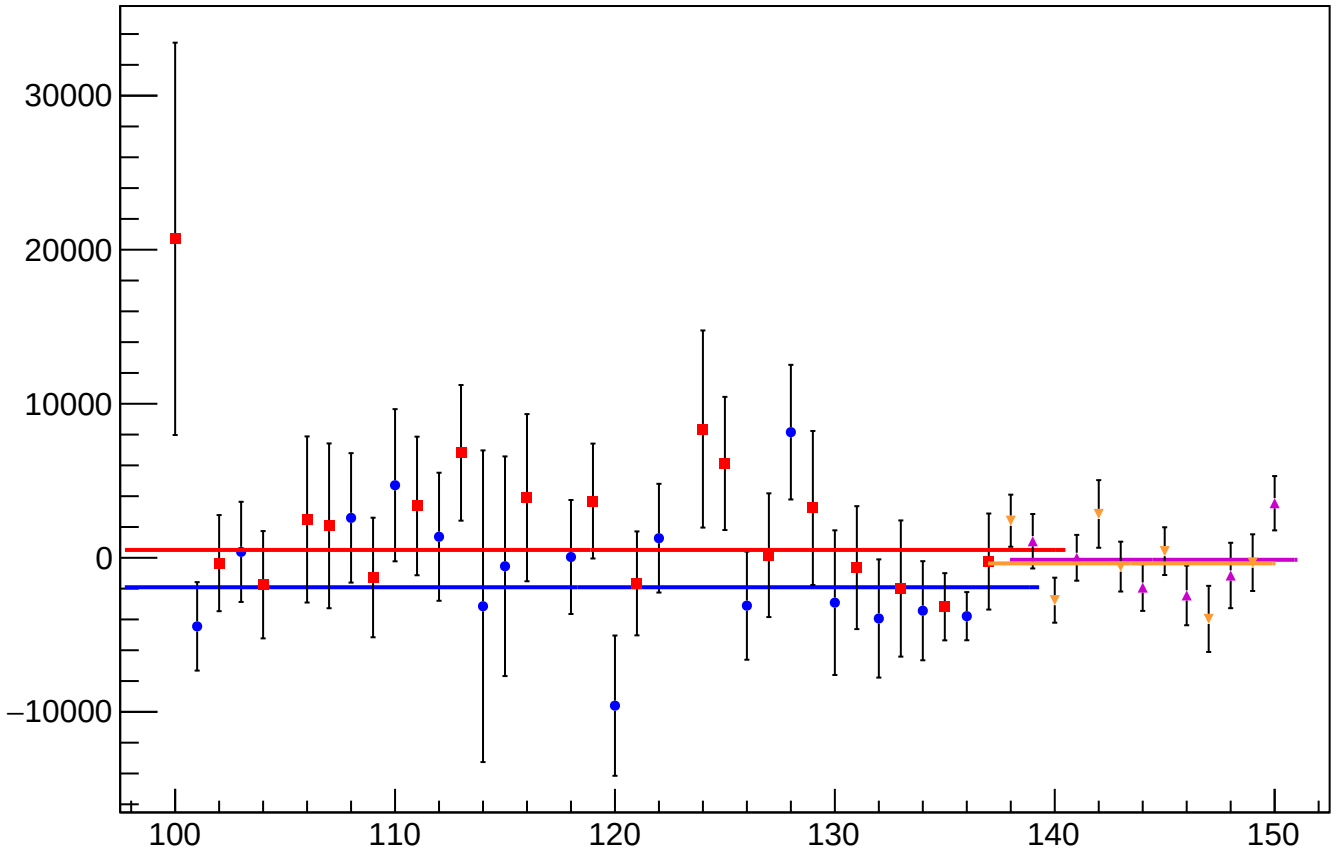
Left: 191.199+/-0.042 $\chi^2$/NDF: 252800.0/12

Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 197.212+/-0.040 $\chi^2$/NDF:319126.7/21

Out: 195.941+/-0.039 $\chi^2$/NDF:339604.9/25

All: 196.566+/-0.028 $\chi^2$/NDF: 659252.9/47




Right In: -1910.310+/-859.089 $\chi^2$/NDF: 16.3/15

Left Out: -362.510+/-654.160 $\chi^2$/NDF:10.6/6

Right Out: 511.276+/-902.014 $\chi^2$/NDF: 14.2/18

Left In: -128.179+/-703.957 $\chi^2$/NDF:7.9/5

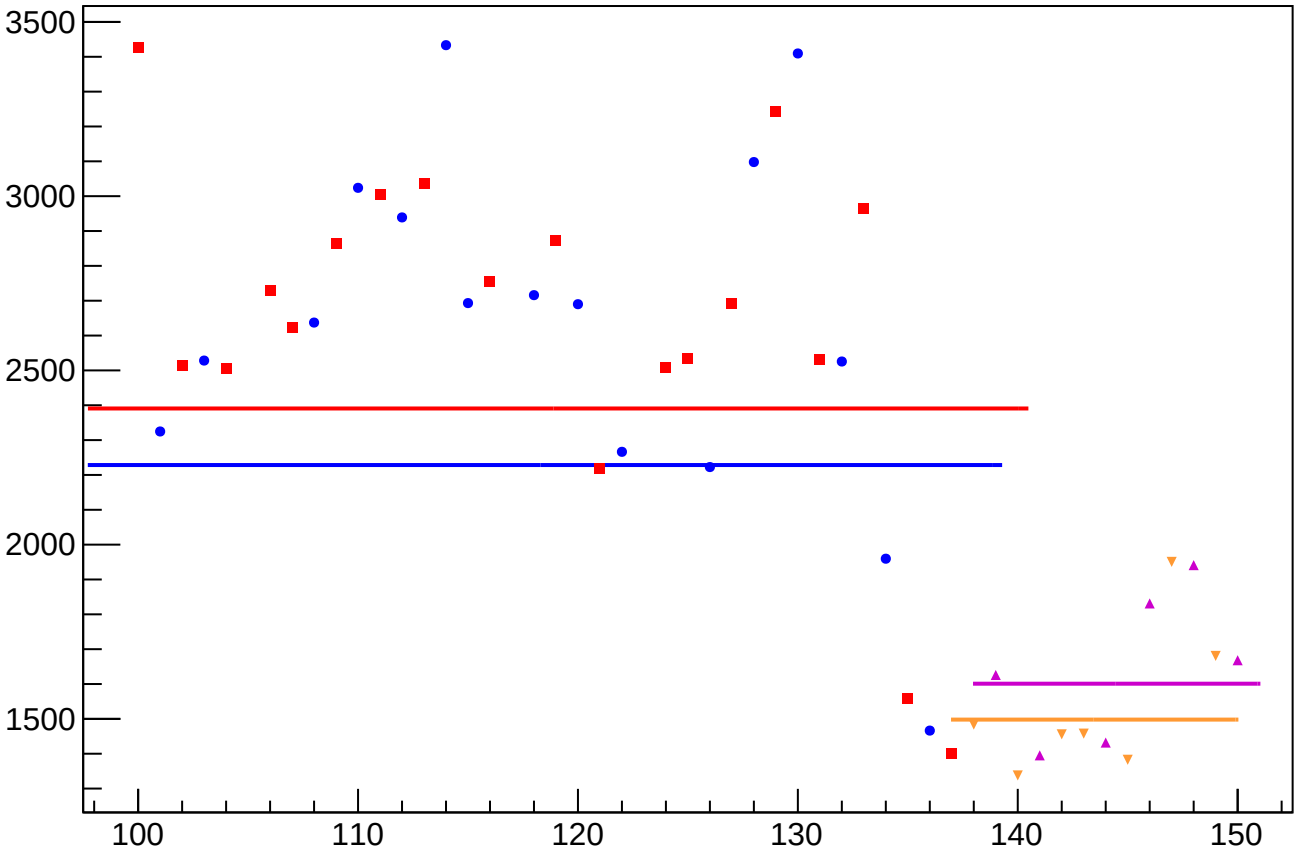
Left: -253.925+/-479.199 $\chi^2$/NDF: 18.5/12

Right: -758.506+/-622.089 $\chi^2$/NDF: 34.3/34

In: -844.093+/-544.501 $\chi^2$/NDF:26.7/21

Out: -61.343+/-529.559 $\chi^2$/NDF:25.5/25

All: -441.831+/-379.627 $\chi^2$/NDF: 53.2/47




Right In: 2228.435+/-0.607 $\chi^2$/NDF: 947659.2/15

Left Out: 1497.914+/-0.463 $\chi^2$/NDF:145933.5/6

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1600.939+/-0.498 $\chi^2$/NDF:146058.5/5

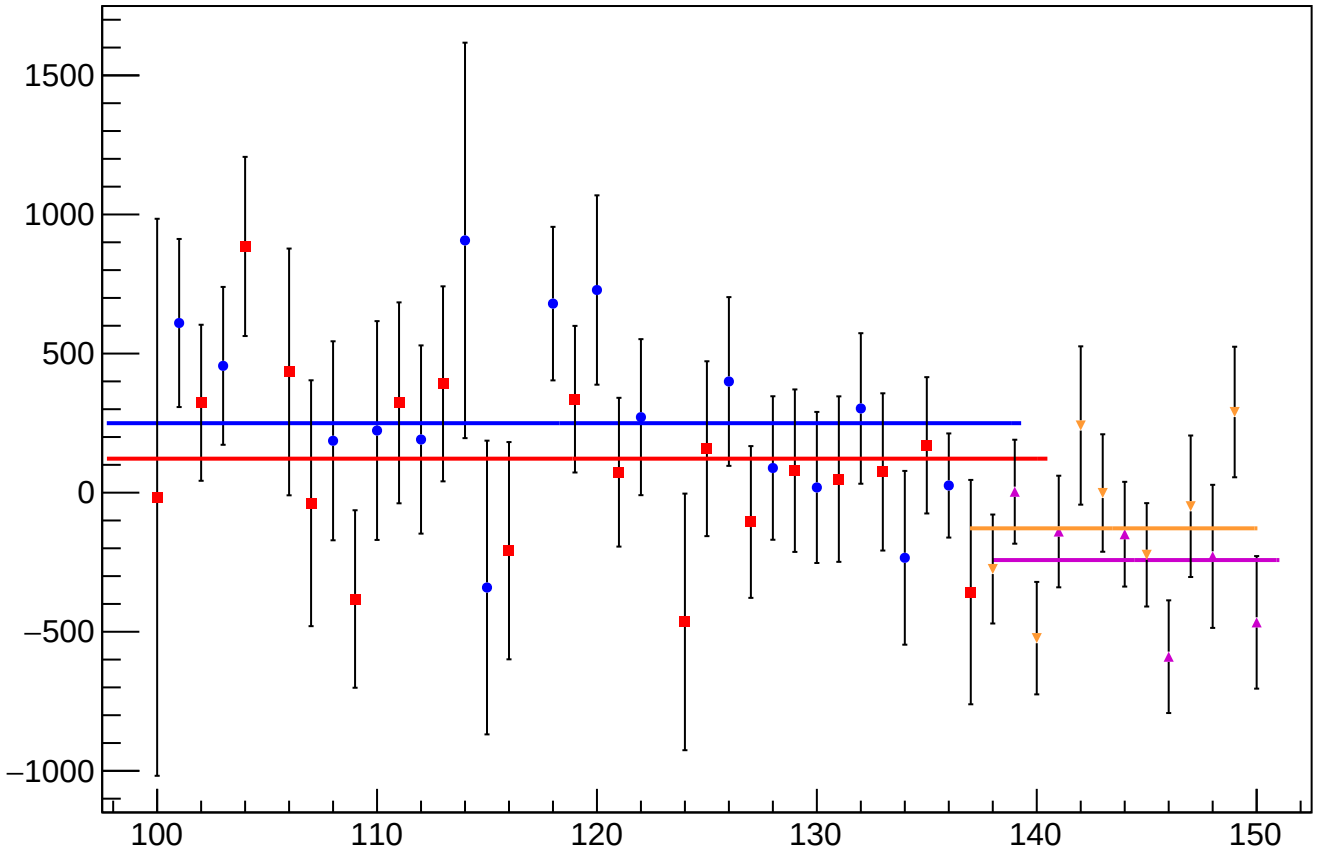
Left: 1545.654+/-0.339 $\chi^2$/NDF: 314979.2/12

Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1853.015+/-0.385 $\chi^2$/NDF:1732101.2/21

Out: 1805.640+/-0.374 $\chi^2$/NDF:2220008.7/25

All: 1828.669+/-0.268 $\chi^2$/NDF: 3959890.7/47




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -128.215+/-82.227 $\chi^2$/NDF:10.0/6

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -242.263+/-84.878 $\chi^2$/NDF:6.1/5

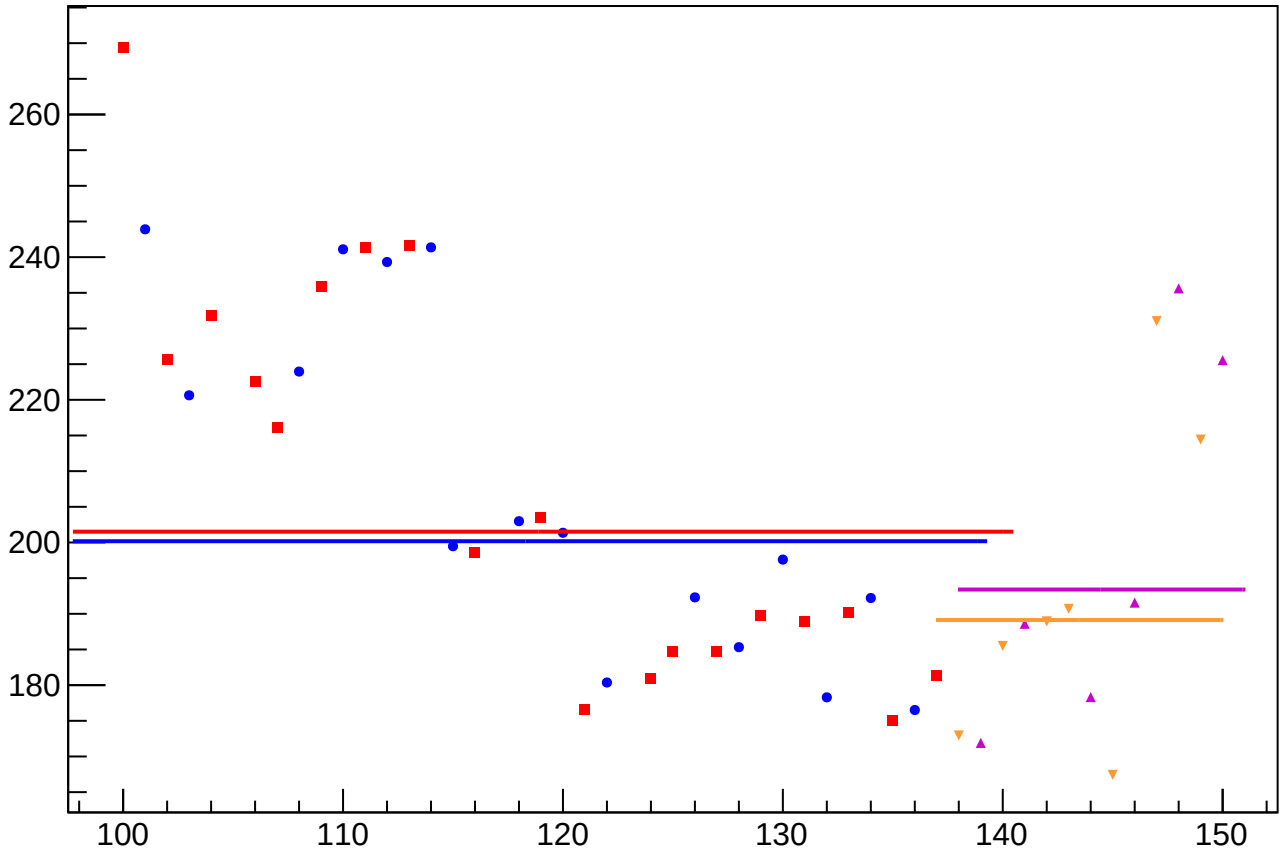
Left: -183.430+/-59.058 $\chi^2$/NDF: 16.9/12

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: 34.432+/-56.151 $\chi^2$/NDF:38.7/21

Out: 9.513+/-55.161 $\chi^2$/NDF:30.5/25

All: 21.751+/-39.350 $\chi^2$/NDF: 69.3/47




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 189.131+/-0.058 $\chi^2$/NDF:119225.4/6

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 193.403+/-0.060 $\chi^2$/NDF:130961.1/5

Left: 191.199+/-0.042 $\chi^2$/NDF: 252800.0/12

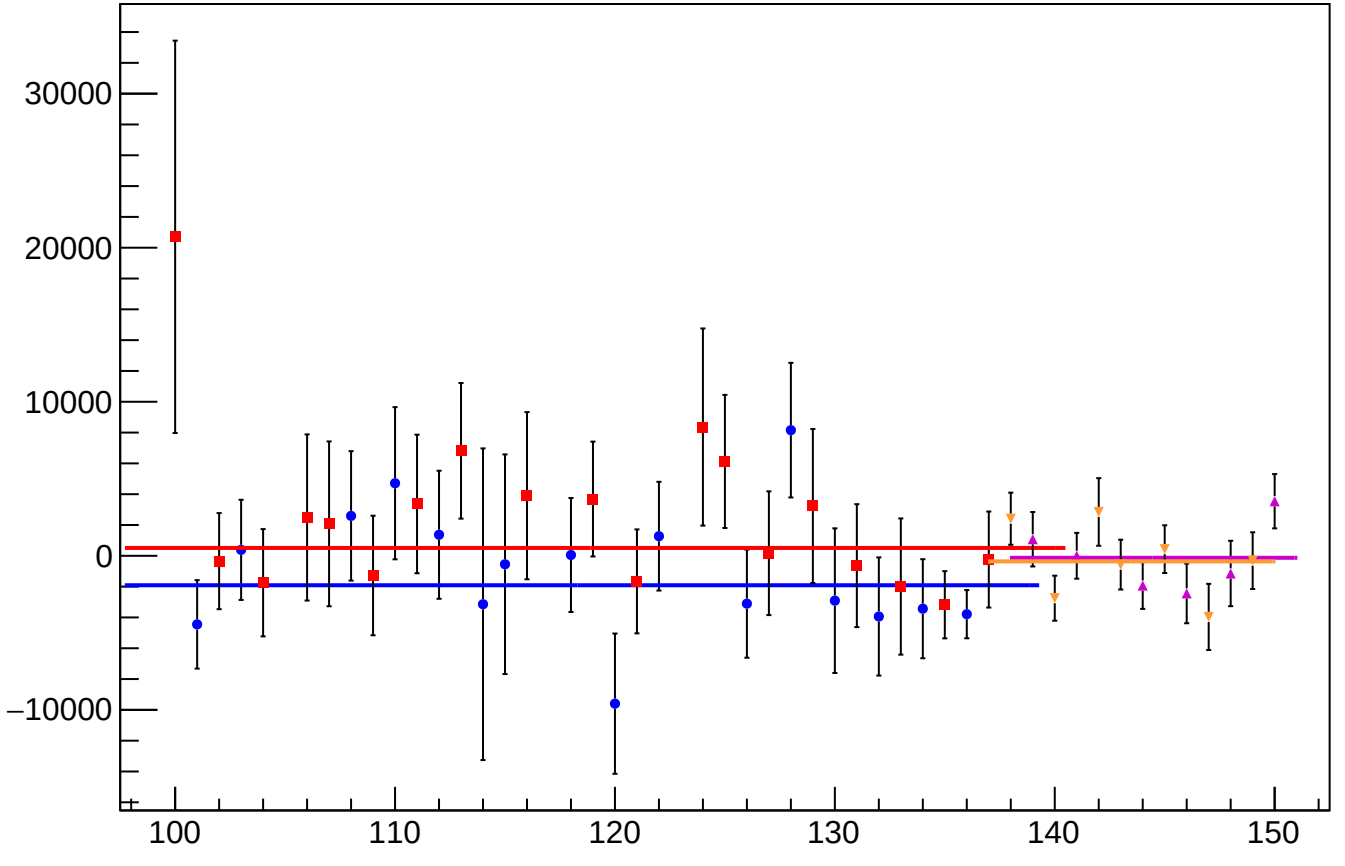
Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 197.212+/-0.040 $\chi^2$/NDF:319126.7/21

Out: 195.941+/-0.039 $\chi^2$/NDF:339604.9/25

All: 196.566+/-0.028 $\chi^2$/NDF: 659252.9/47

asym_sam_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1910.310+/-859.089 $\chi^2$/NDF: 16.3/15

Left Out: -362.510+/-654.160 $\chi^2$/NDF:10.6/6

Right Out: 511.276+/-902.014 $\chi^2$/NDF: 14.2/18

Left In: -128.179+/-703.957 $\chi^2$/NDF:7.9/5

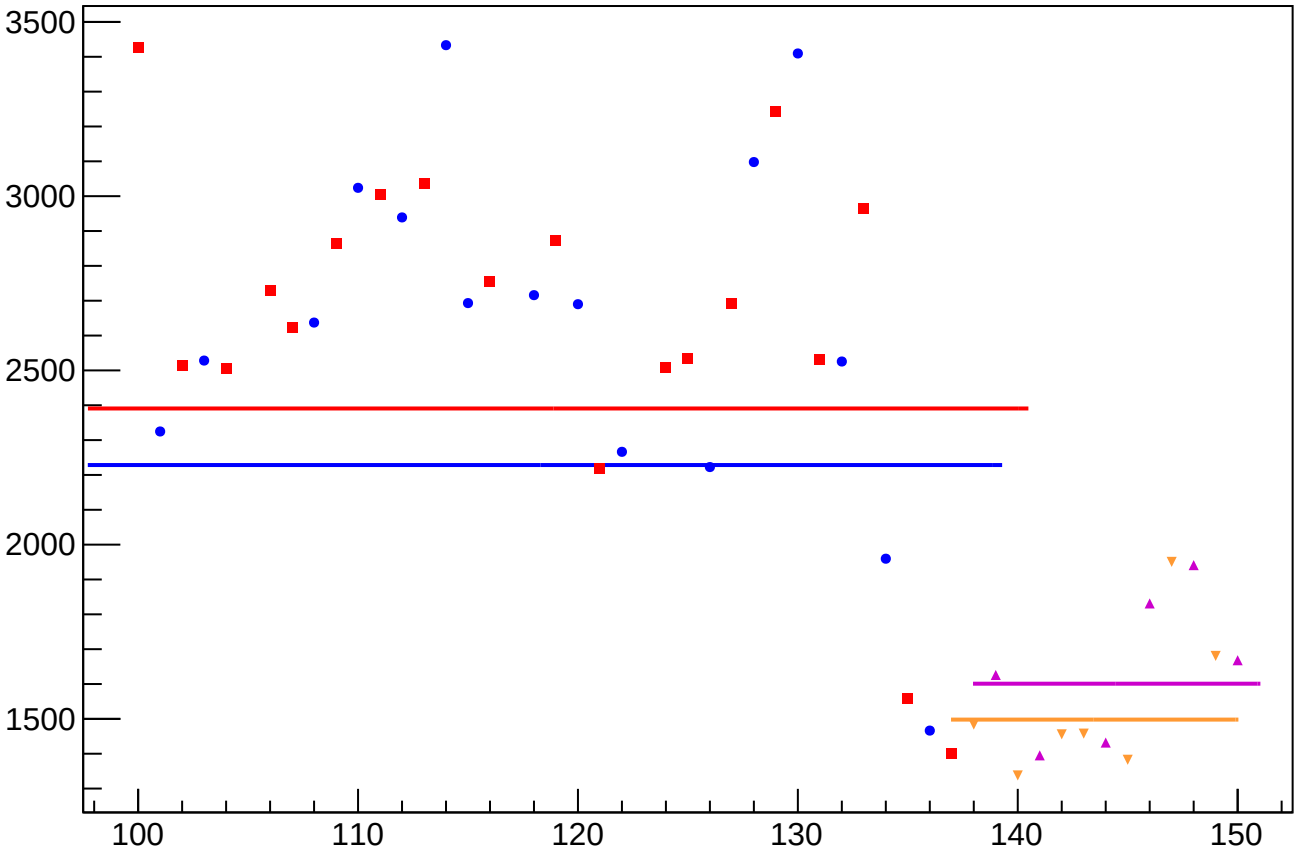
Left: -253.925+/-479.199 $\chi^2$/NDF: 18.5/12

Right: -758.506+/-622.089 $\chi^2$/NDF: 34.3/34

In: -844.093+/-544.501 $\chi^2$/NDF:26.7/21

Out: -61.343+/-529.559 $\chi^2$/NDF:25.5/25

All: -441.831+/-379.627 $\chi^2$/NDF: 53.2/47




Right In: 2228.435+/-0.607 $\chi^2$/NDF: 947659.2/15

Left Out: 1497.914+/-0.463 $\chi^2$/NDF:145933.5/6

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1600.939+/-0.498 $\chi^2$/NDF:146058.5/5

Left: 1545.654+/-0.339 $\chi^2$/NDF: 314979.2/12

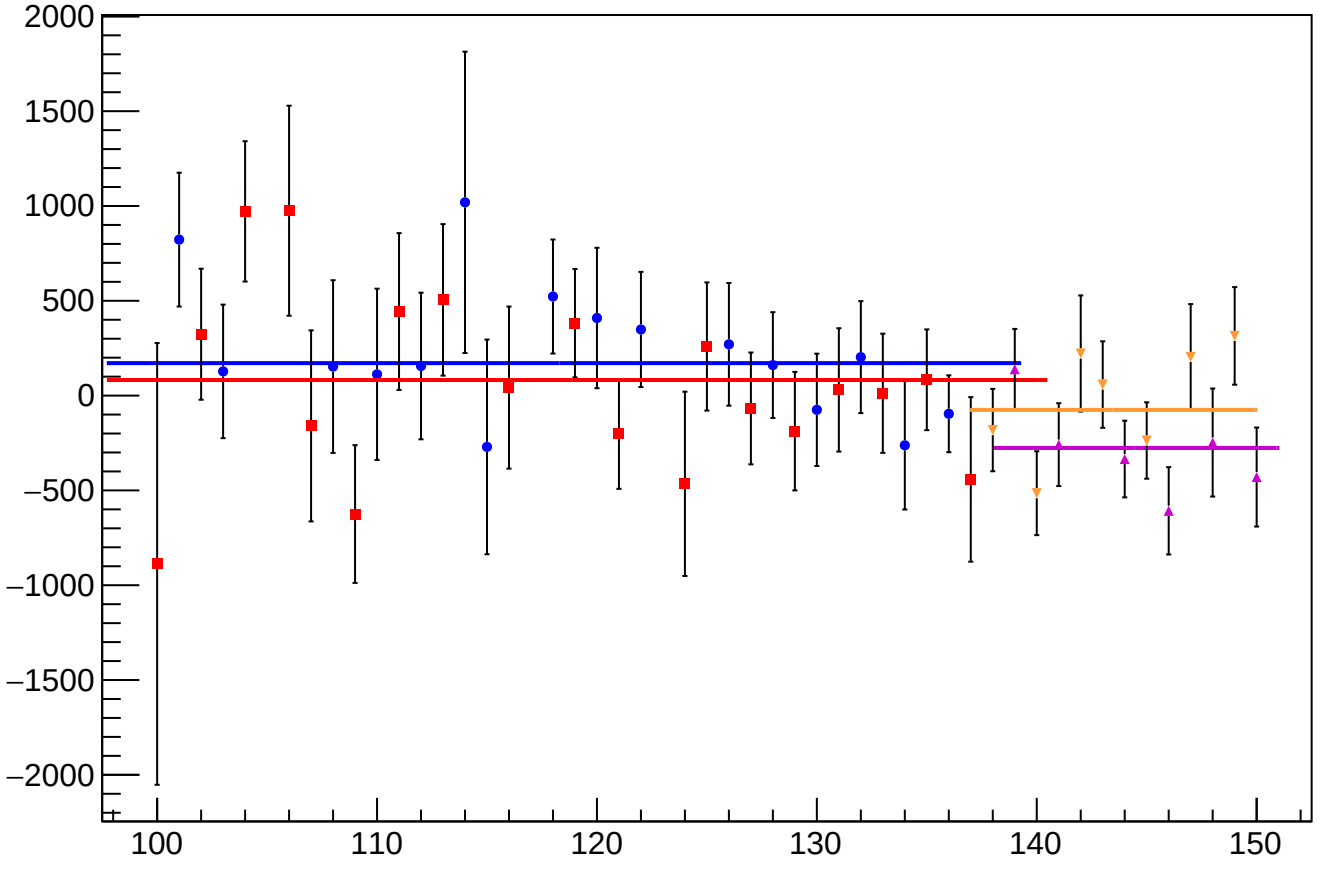
Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1853.015+/-0.385 $\chi^2$/NDF:1732101.2/21

Out: 1805.640+/-0.374 $\chi^2$/NDF:2220008.7/25

All: 1828.669+/-0.268 $\chi^2$/NDF: 3959890.7/47

# dit_asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 171.258+/-83.116 $\chi^2$/NDF: 11.5/15

Left Out: -75.297+/-89.750 $\chi^2$/NDF:9.4/6

Right Out: 82.152+/-82.545 $\chi^2$/NDF: 21.6/18

Left In: -276.183+/-93.904 $\chi^2$/NDF:6.3/5

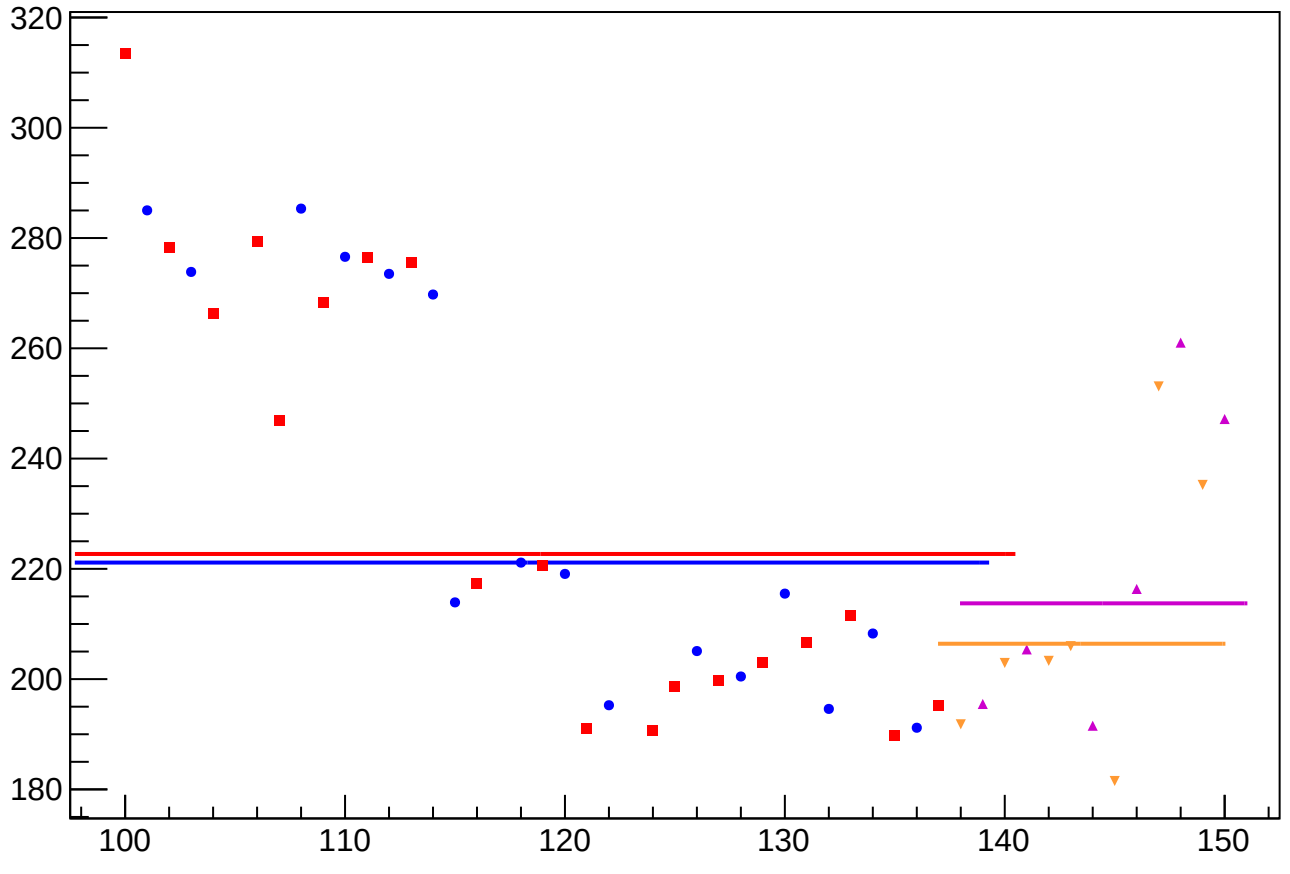
Left: -171.198+/-64.882 $\chi^2$/NDF: 18.2/12

Right: 126.398+/-58.569 $\chi^2$/NDF: 33.7/34

In: -25.294+/-62.238 $\chi^2$/NDF:30.6/21

Out: 10.000+/-60.756 $\chi^2$/NDF:32.7/25

All: -7.221+/-43.476 $\chi^2$/NDF: 63.4/47




Right In: 221.139+/-0.059 $\chi^2$/NDF: 318702.0/15

Left Out: 206.416+/-0.063 $\chi^2$/NDF:121454.3/6

Right Out: 222.697+/-0.058 $\chi^2$/NDF: 327032.3/18

Left In: 213.743+/-0.066 $\chi^2$/NDF:129929.1/5

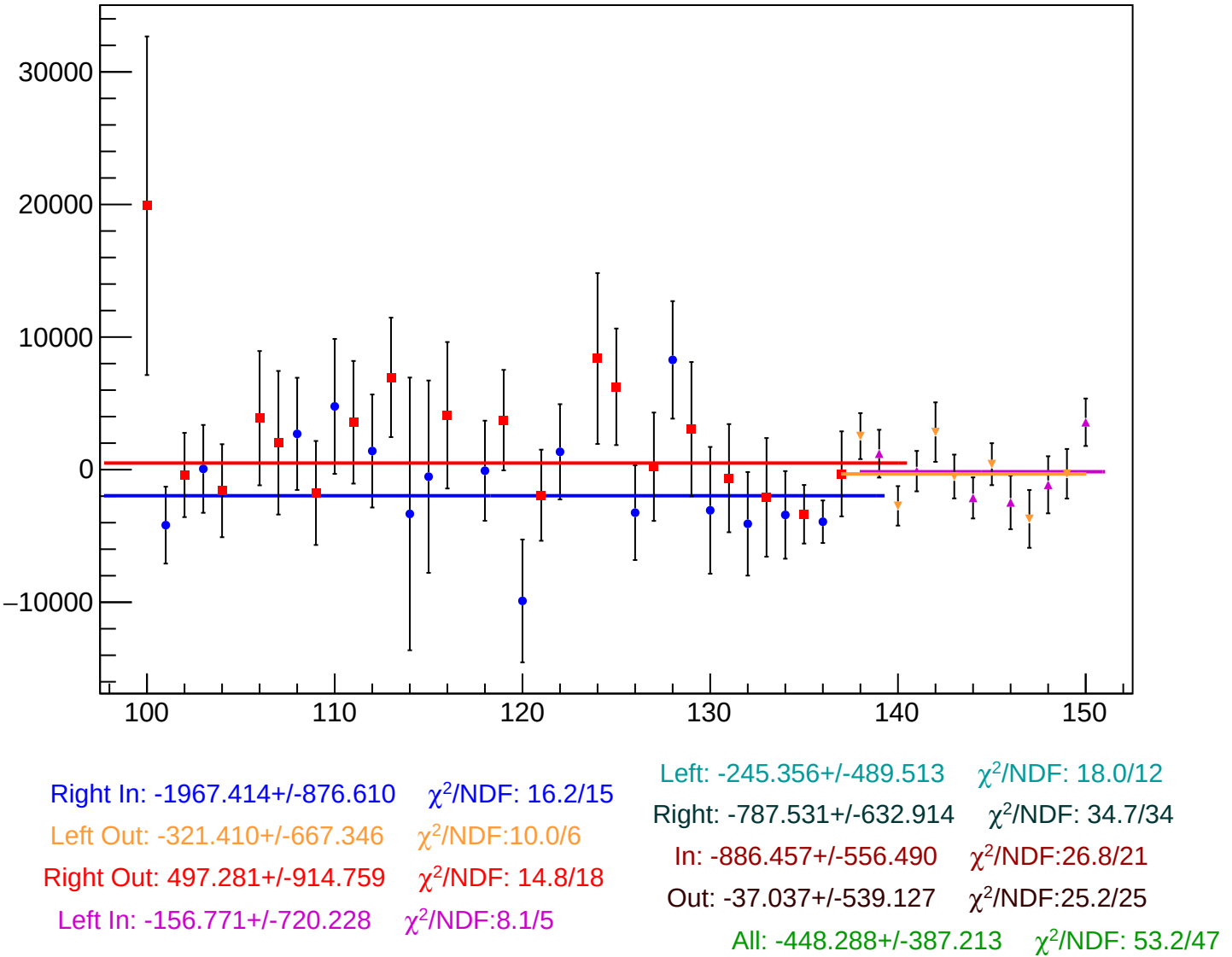
Left: 209.914+/-0.046 $\chi^2$/NDF: 257747.3/12

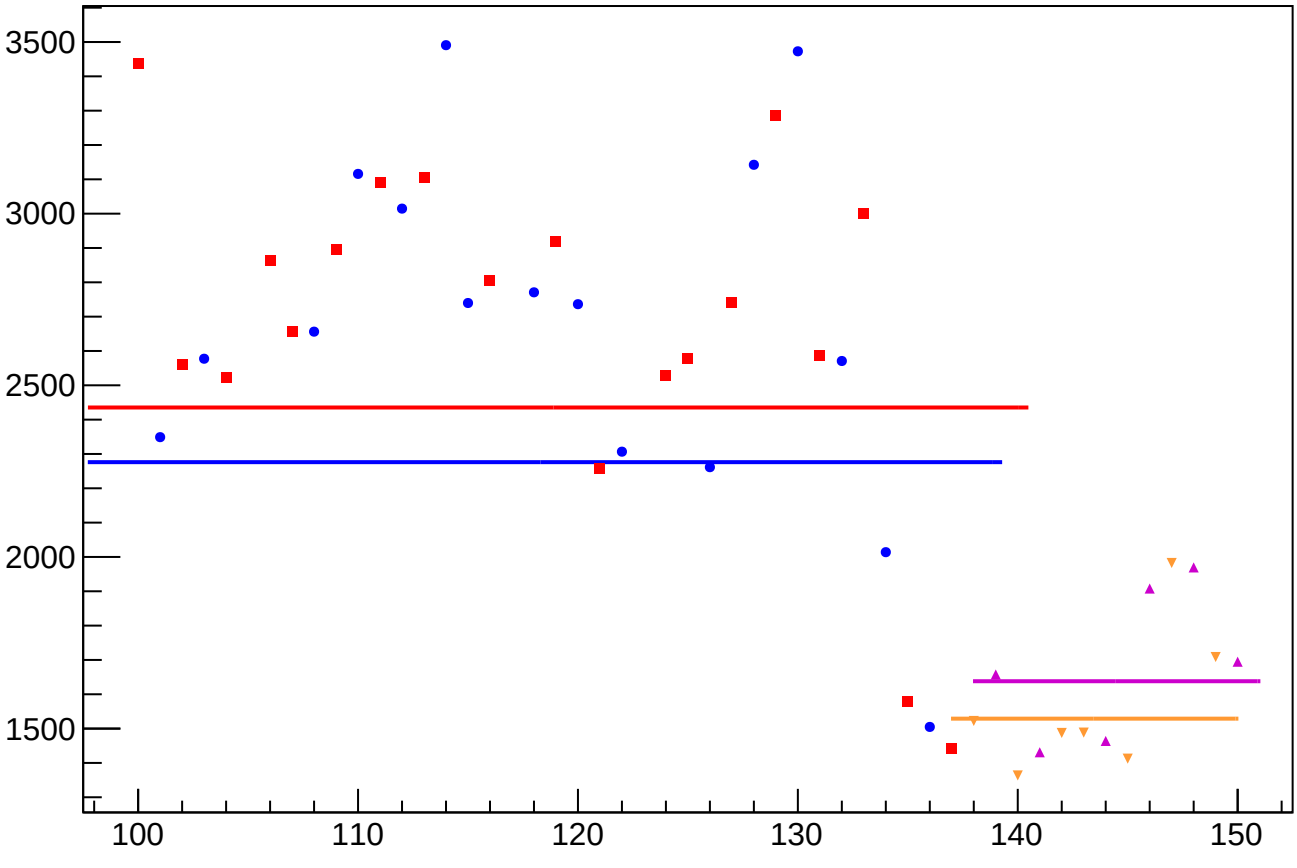
Right: 221.924+/-0.041 $\chi^2$/NDF: 646088.3/34

In: 217.890+/-0.044 $\chi^2$/NDF:455587.0/21

Out: 215.236+/-0.043 $\chi^2$/NDF:484142.2/25

All: 216.531+/-0.031 $\chi^2$/NDF: 941591.3/47


asym_sam_26_dd_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
100
110
120
130
140
150
Right In: -1967.414+/-876.610 χ²/NDF: 16.2/15
Left Out: -321.410+/-667.346 χ²/NDF:10.0/6
Right Out: 497.281+/-914.759 χ²/NDF: 14.8/18
Left In: -156.771+/-720.228 χ²/NDF:8.1/5
Left: -245.356+/-489.513 χ²/NDF: 18.0/12
Right: -787.531+/-632.914 χ²/NDF: 34.7/34
In: -886.457+/-556.490 χ²/NDF:26.8/21
Out: -37.037+/-539.127 χ²/NDF:25.2/25
All: -448.288+/-387.213 χ²/NDF: 53.2/47




Right In: 2276.134+/-0.620 $\chi^2$/NDF: 926982.8/15

Left Out: 1528.970+/-0.472 $\chi^2$/NDF:142344.2/6

Right Out: 2435.354+/-0.647 $\chi^2$/NDF: 791515.5/18

Left In: 1637.983+/-0.509 $\chi^2$/NDF:147471.4/5

Left: 1579.328+/-0.346 $\chi^2$/NDF: 314469.1/12

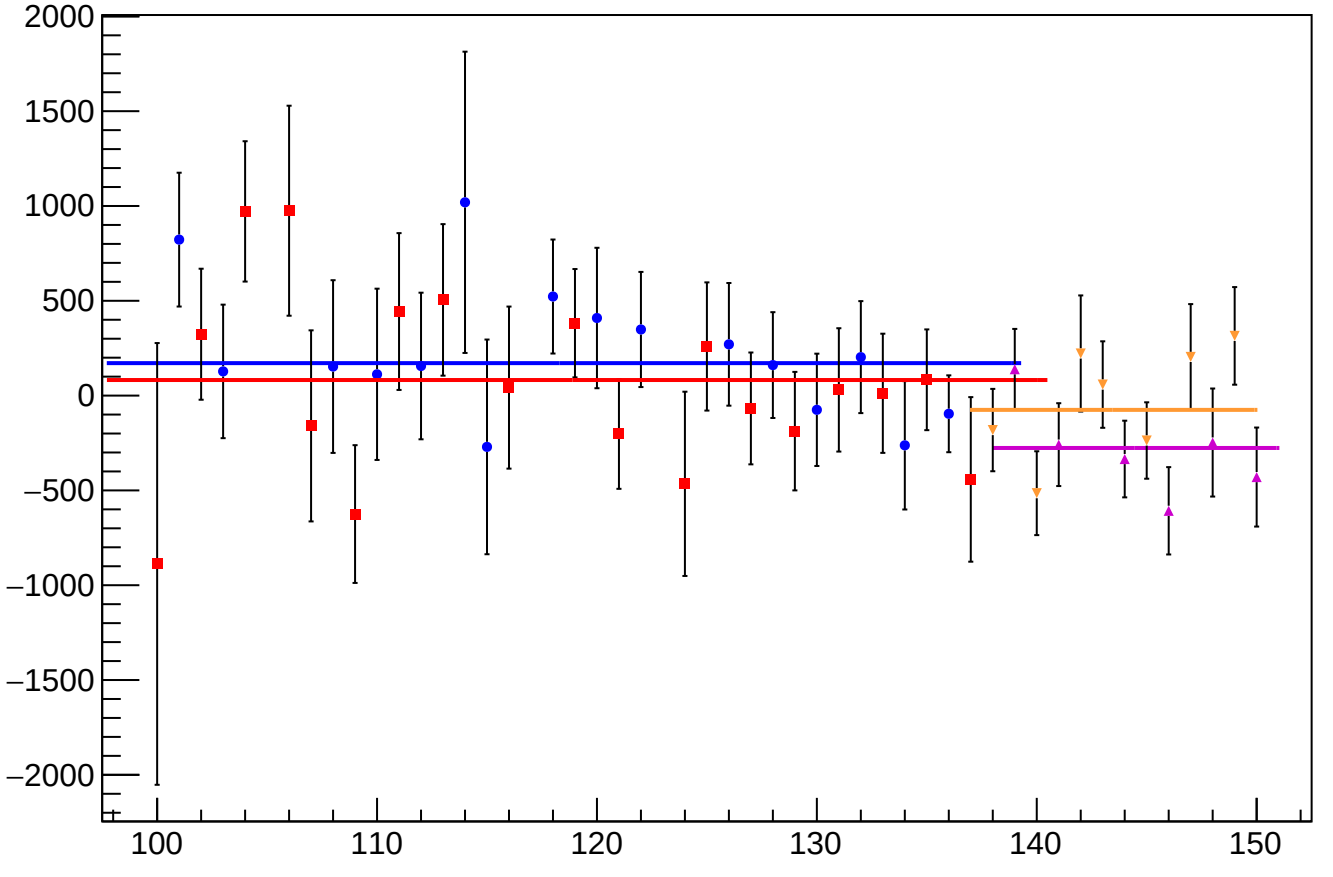
Right: 2352.355+/-0.448 $\chi^2$/NDF: 1750083.9/34

In: 1895.157+/-0.393 $\chi^2$/NDF:1707216.1/21

Out: 1843.803+/-0.381 $\chi^2$/NDF:2215368.2/25

All: 1868.666+/-0.274 $\chi^2$/NDF: 3931369.9/47

# eigen_dit_asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 171.260+/-83.115 $\chi^2$/NDF: 11.5/15

Left Out: -75.302+/-89.750 $\chi^2$/NDF:9.4/6

Right Out: 82.150+/-82.545 $\chi^2$/NDF: 21.6/18

Left In: -276.184+/-93.904 $\chi^2$/NDF:6.3/5

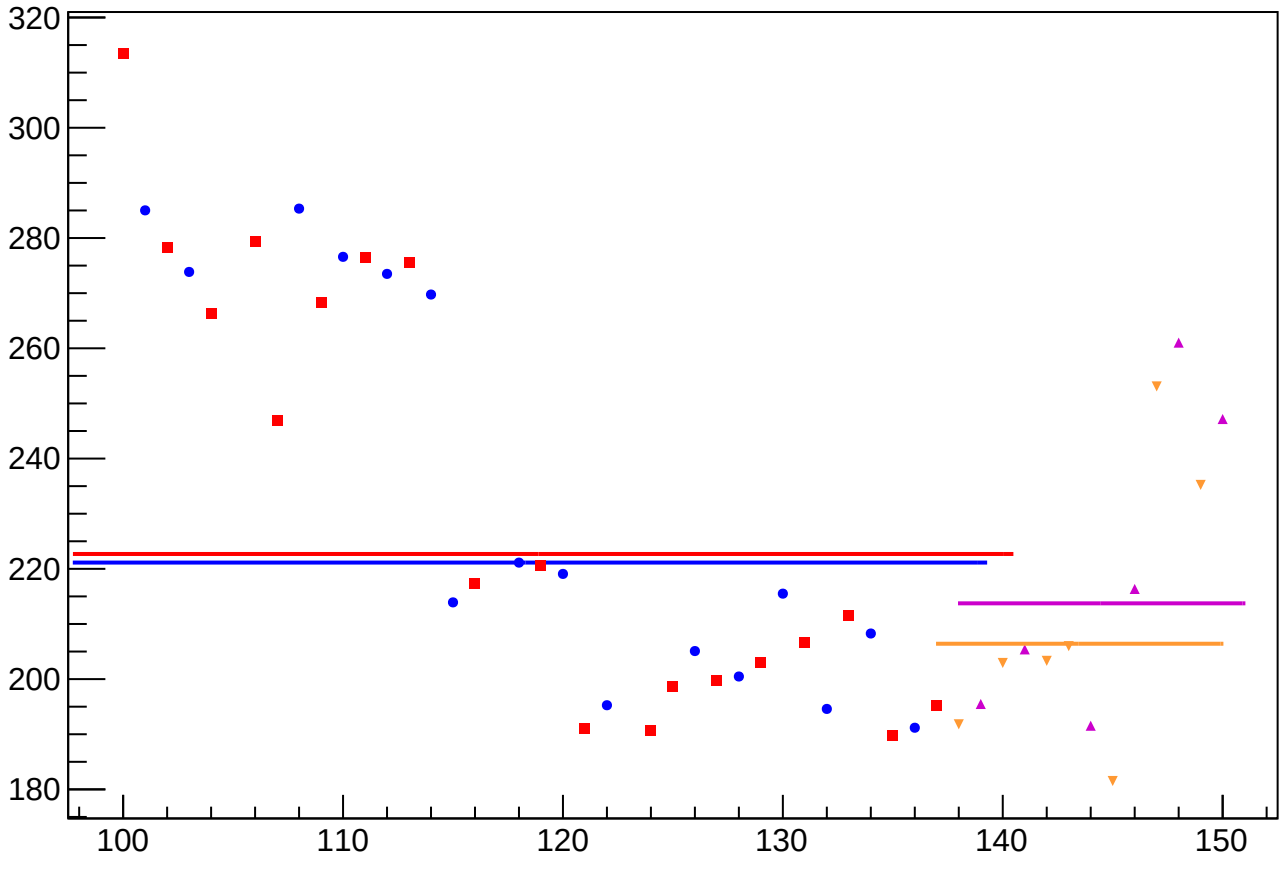
Left: -171.201+/-64.882 $\chi^2$/NDF: 18.2/12

Right: 126.398+/-58.569 $\chi^2$/NDF: 33.7/34

In: -25.292+/-62.238 $\chi^2$/NDF:30.6/21

Out: 9.997+/-60.756 $\chi^2$/NDF:32.7/25

All: -7.222+/-43.475 $\chi^2$/NDF: 63.4/47




Right In: 221.138+/-0.059 $\chi^2$/NDF: 318696.9/15

Left Out: 206.416+/-0.063 $\chi^2$/NDF:121456.9/6

Right Out: 222.696+/-0.058 $\chi^2$/NDF: 327025.2/18

Left In: 213.743+/-0.066 $\chi^2$/NDF:129930.5/5

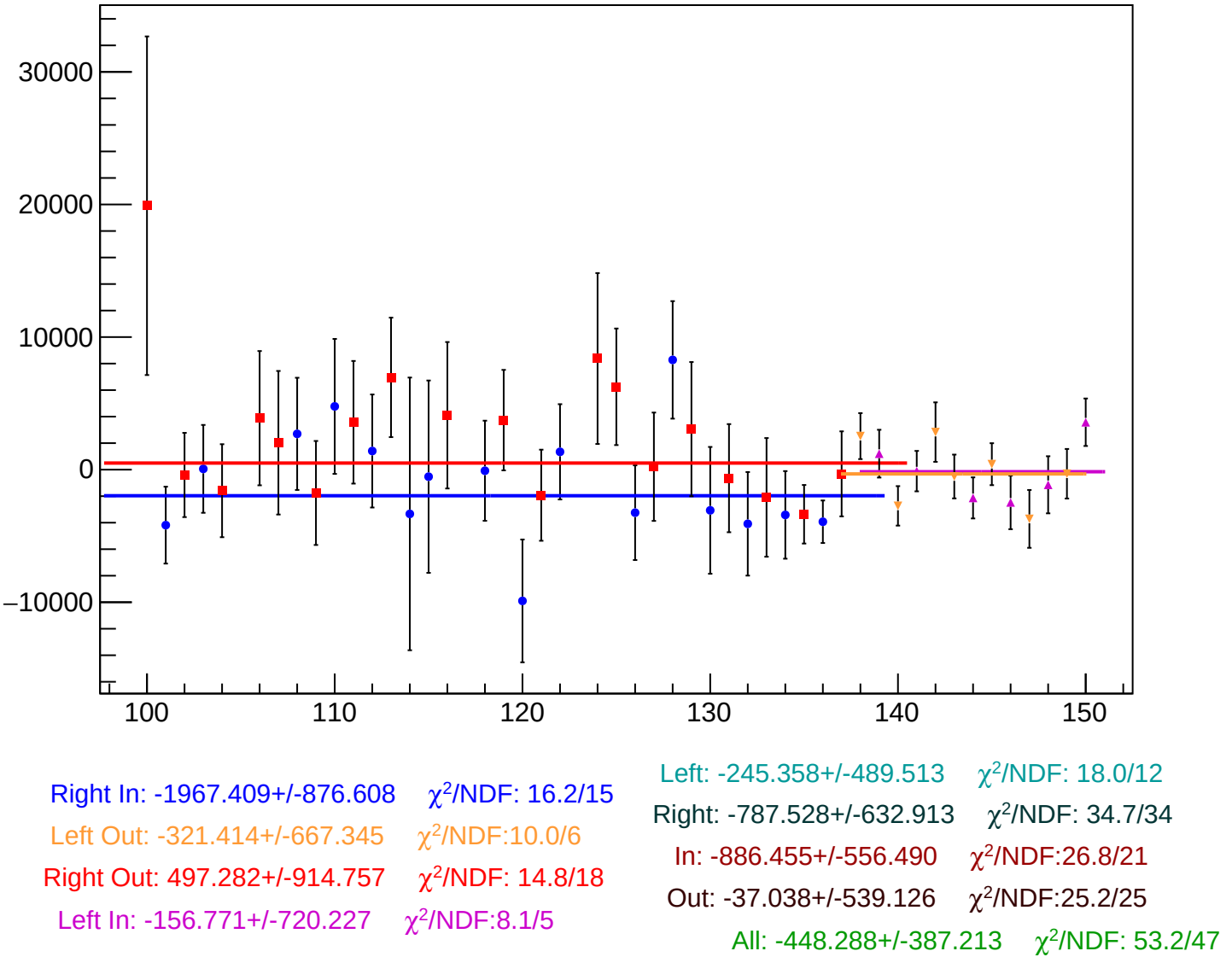
Left: 209.914+/-0.046 $\chi^2$/NDF: 257751.3/12

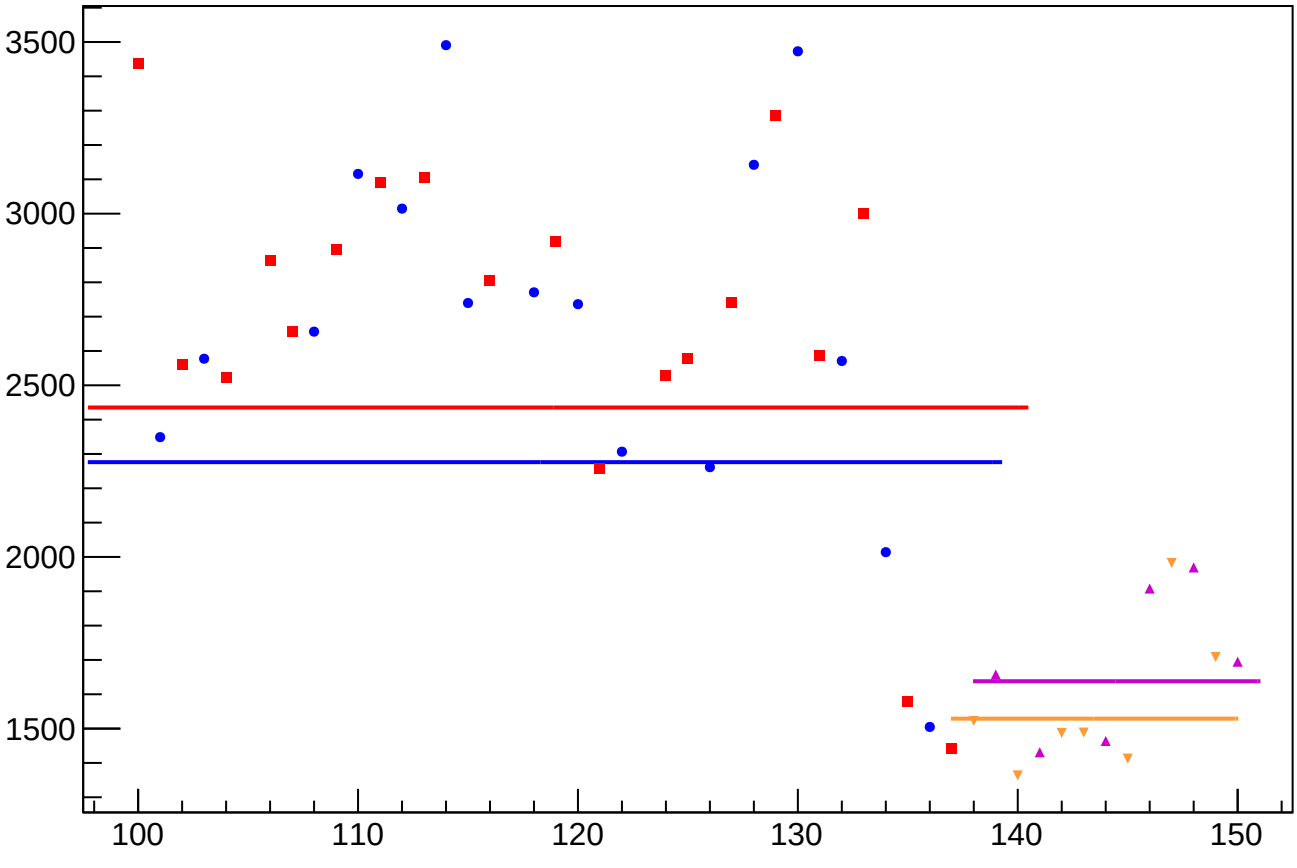
Right: 221.923+/-0.041 $\chi^2$/NDF: 646076.2/34

In: 217.890+/-0.044 $\chi^2$/NDF:455581.7/21

Out: 215.236+/-0.043 $\chi^2$/NDF:484135.3/25

All: 216.531+/-0.031 $\chi^2$/NDF: 941578.8/47


asym_sam_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
100
110
120
130
140
150
Right In: -1967.409+/-876.608 χ²/NDF: 16.2/15
Left Out: -321.414+/-667.345 χ²/NDF:10.0/6
Right Out: 497.282+/-914.757 χ²/NDF: 14.8/18
Left In: -156.771+/-720.227 χ²/NDF:8.1/5
Left: -245.358+/-489.513 χ²/NDF: 18.0/12
Right: -787.528+/-632.913 χ²/NDF: 34.7/34
In: -886.455+/-556.490 χ²/NDF:26.8/21
Out: -37.038+/-539.126 χ²/NDF:25.2/25
All: -448.288+/-387.213 χ²/NDF: 53.2/47




Right In: 2276.132+/-0.620 $\chi^2$/NDF: 926973.2/15

Left Out: 1528.968+/-0.472 $\chi^2$/NDF:142344.9/6

Right Out: 2435.351+/-0.647 $\chi^2$/NDF: 791509.5/18

Left In: 1637.982+/-0.509 $\chi^2$/NDF:147470.9/5

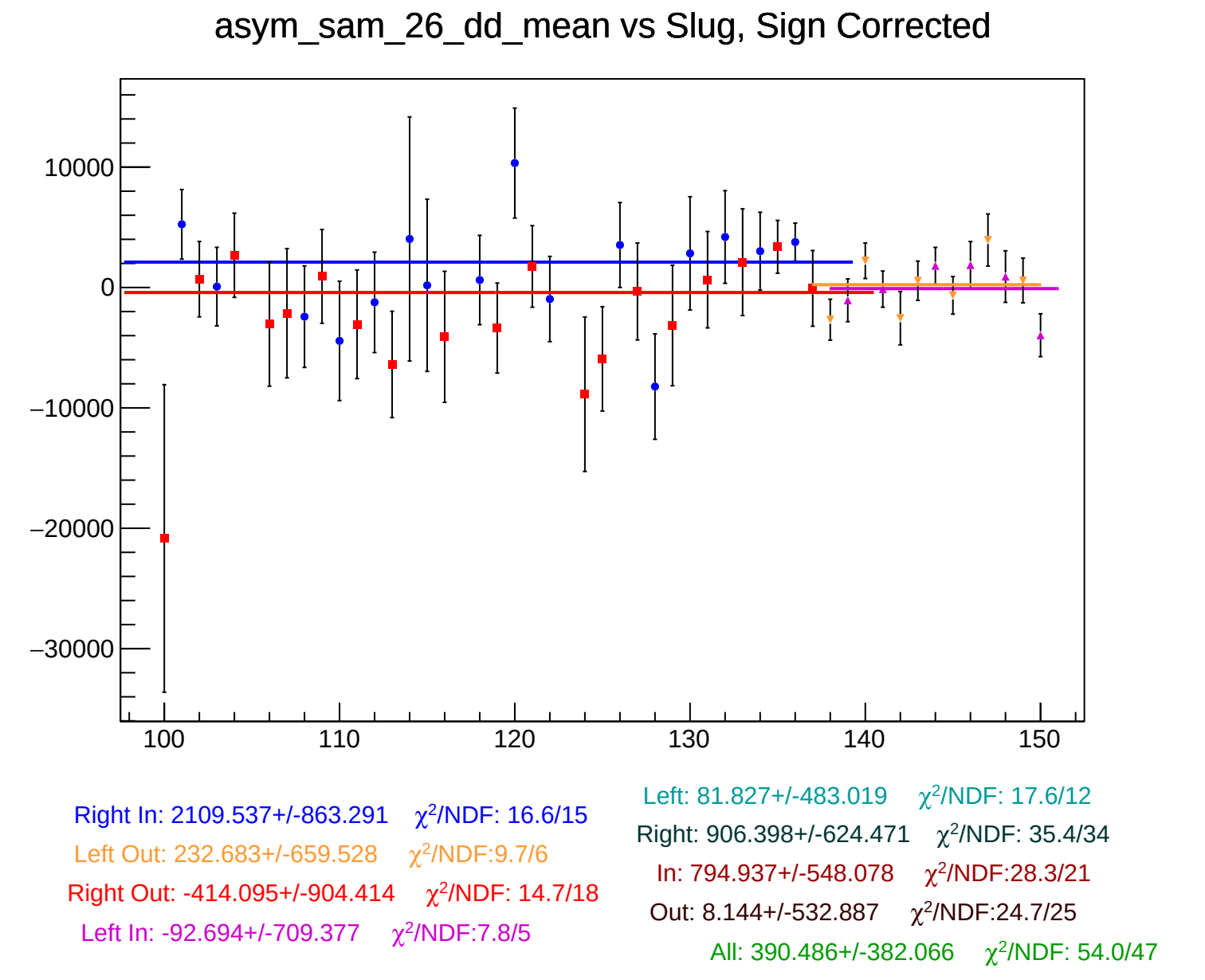
Left: 1579.326+/-0.346 $\chi^2$/NDF: 314469.4/12

Right: 2352.352+/-0.448 $\chi^2$/NDF: 1750068.0/34

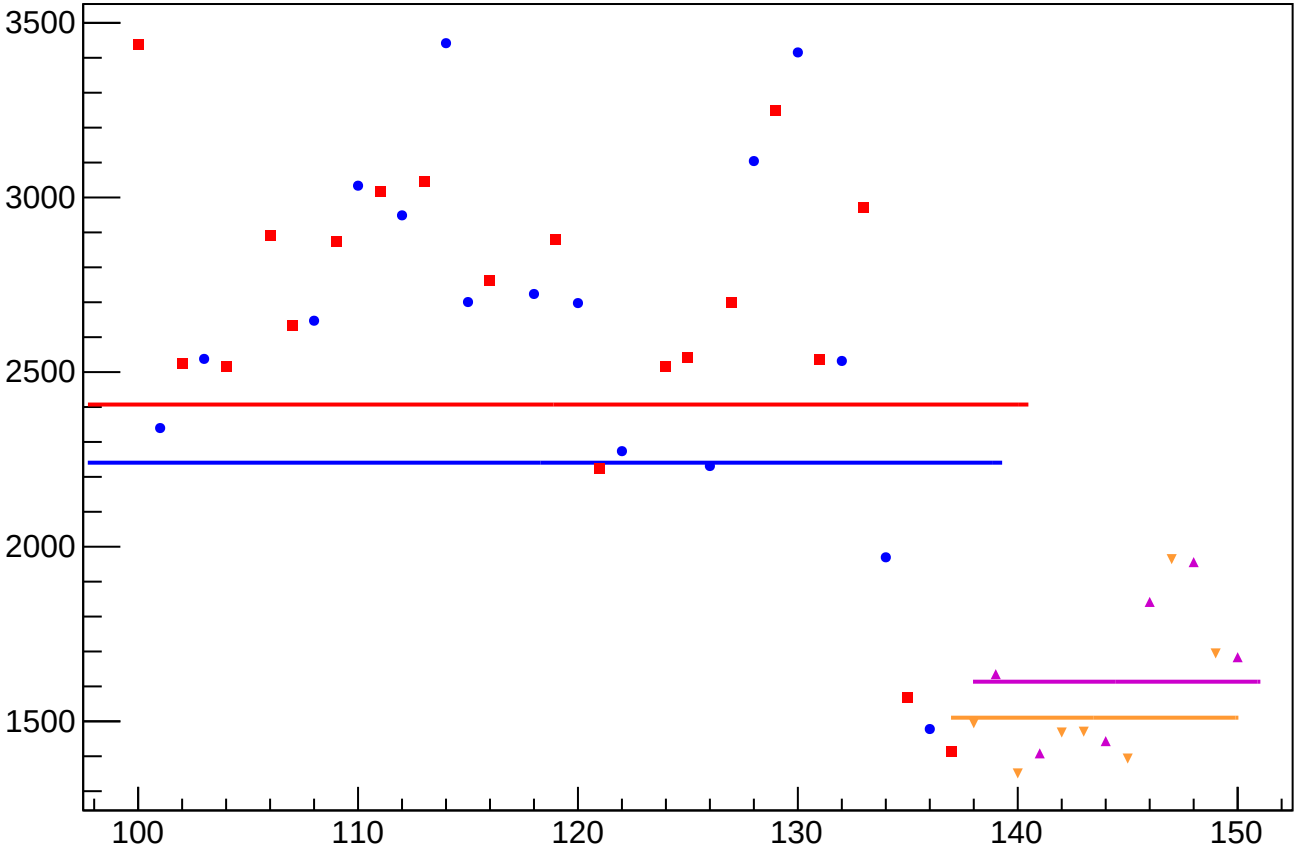
In: 1895.155+/-0.393 $\chi^2$/NDF:1707204.4/21

Out: 1843.801+/-0.381 $\chi^2$/NDF:2215360.5/25

All: 1868.665+/-0.274 $\chi^2$/NDF: 3931350.8/47


asym_sam_26_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
Right In: 2109.537+/-863.291 χ²/NDF: 16.6/15
Left Out: 232.683+/-659.528 χ²/NDF:9.7/6
Right Out: -414.095+/-904.414 χ²/NDF: 14.7/18
Left In: -92.694+/-709.377 χ²/NDF:7.8/5
Left: 81.827+/-483.019 χ²/NDF: 17.6/12
Right: 906.398+/-624.471 χ²/NDF: 35.4/34
In: 794.937+/-548.078 χ²/NDF:28.3/21
Out: 8.144+/-532.887 χ²/NDF:24.7/25
All: 390.486+/-382.066 χ²/NDF: 54.0/47

# asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 2240.626+/-0.610 $\chi^2$/NDF: 933590.8/15

Left Out: 1510.441+/-0.466 $\chi^2$/NDF:144666.2/6

Right Out: 2407.124+/-0.640 $\chi^2$/NDF: 788976.1/18

Left In: 1613.490+/-0.502 $\chi^2$/NDF:144348.0/5

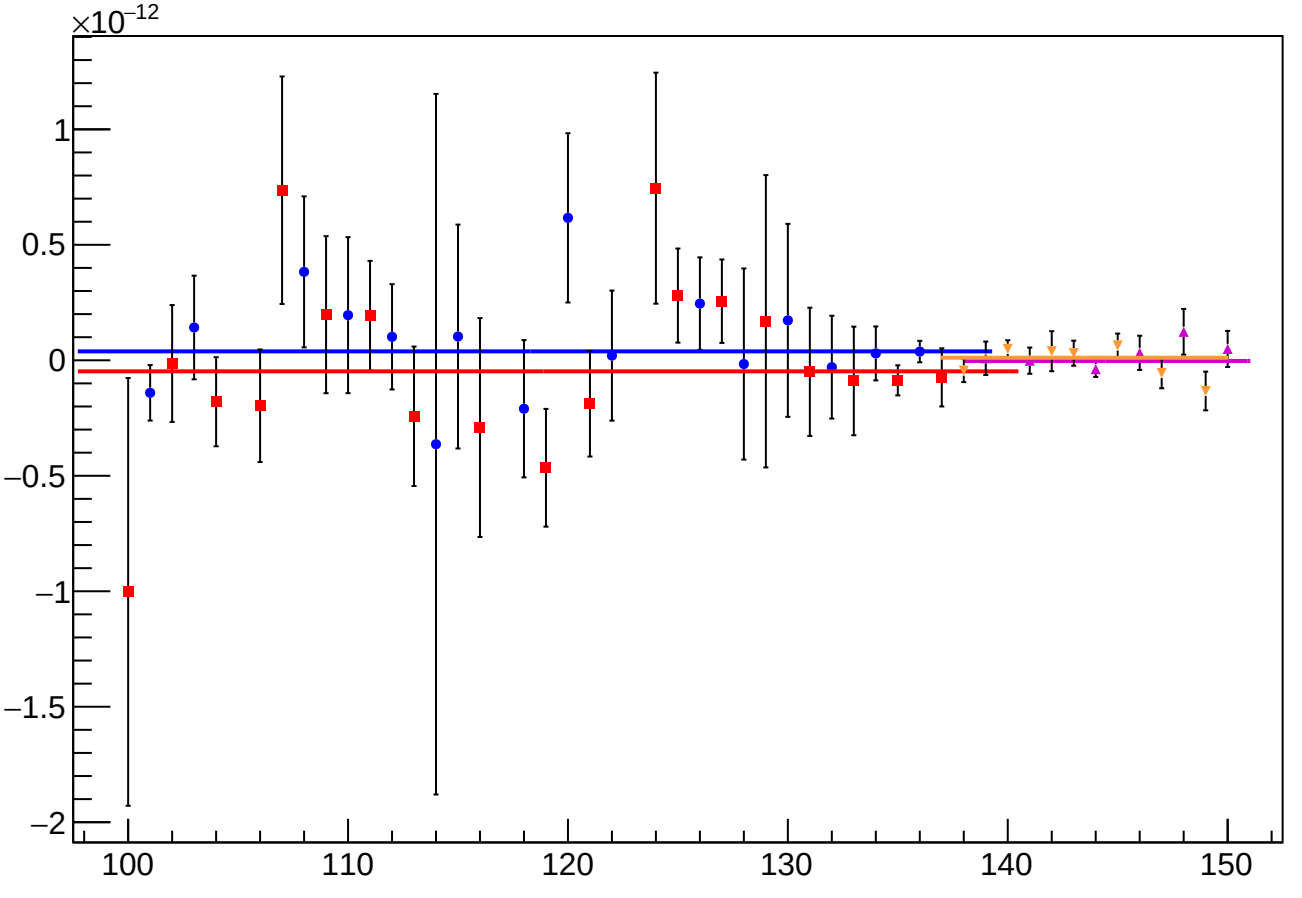
Left: 1558.218+/-0.342 $\chi^2$/NDF: 311651.6/12

Right: 2320.004+/-0.442 $\chi^2$/NDF: 1758033.9/34

In: 1866.264+/-0.388 $\chi^2$/NDF:1707980.8/21

Out: 1821.738+/-0.377 $\chi^2$/NDF:2217086.6/25

All: 1843.375+/-0.270 $\chi^2$/NDF: 3931852.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.4/5

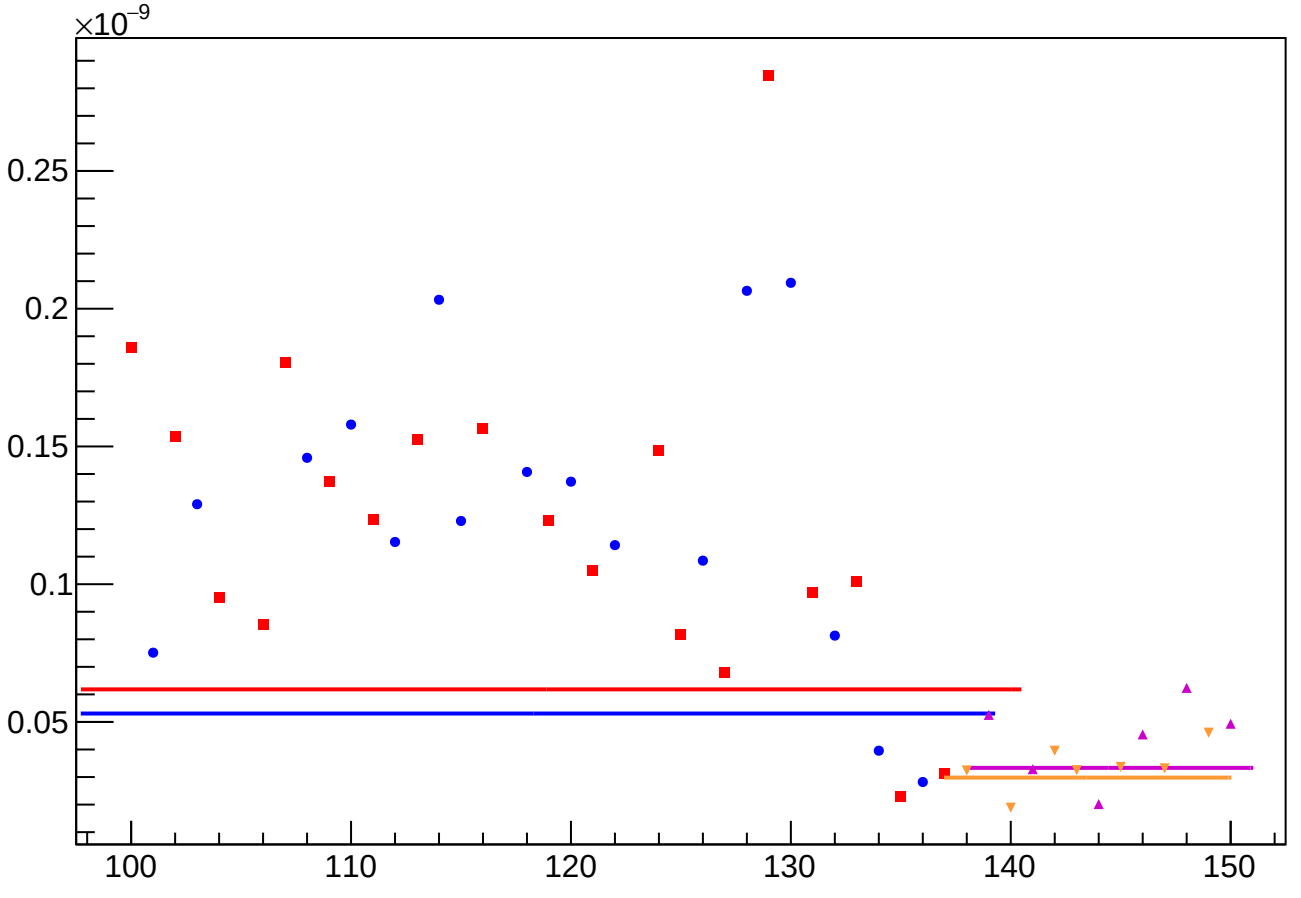
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:12.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 40.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2576481.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:298165.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2416437.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:749146.0/5

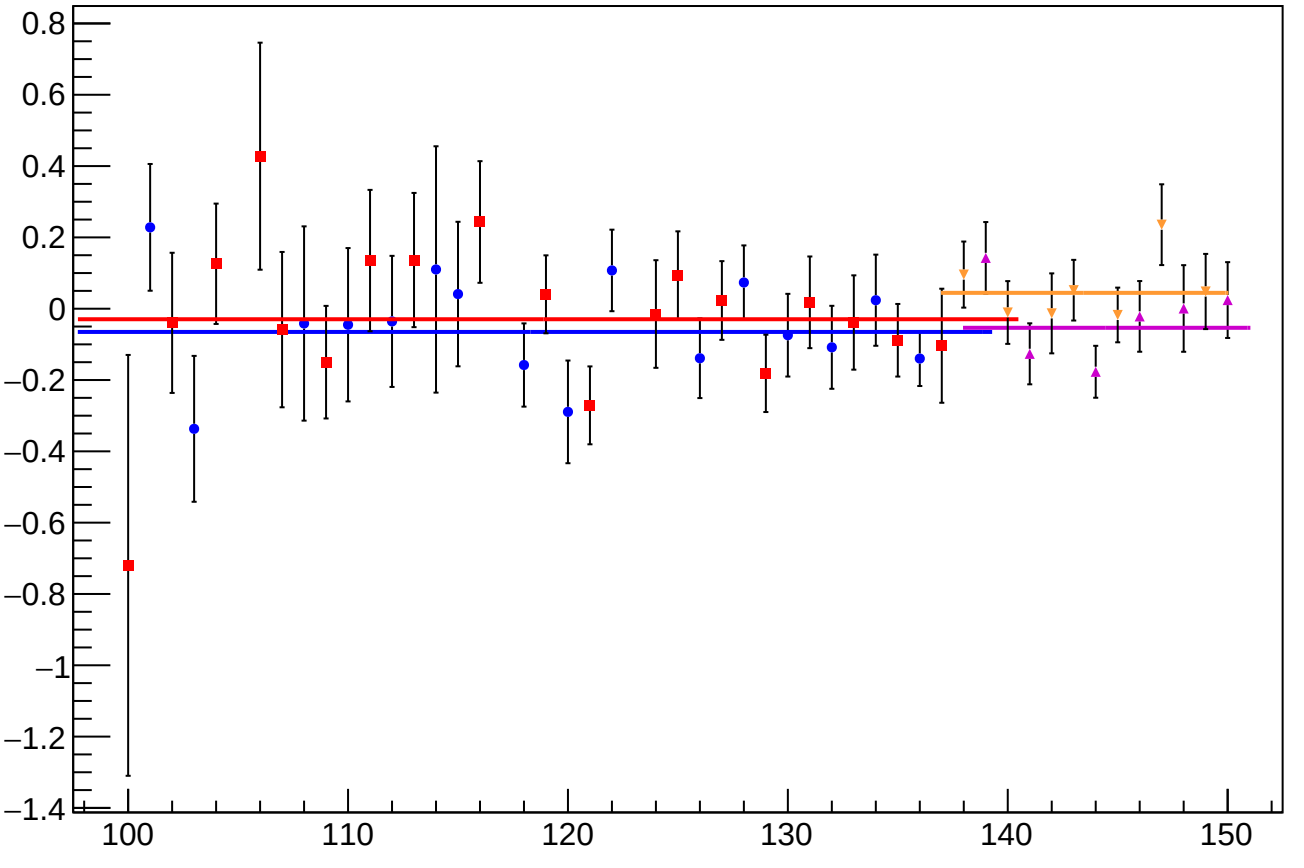
Left: 0.000+/-0.000 $\chi^2$/NDF: 1072780.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5040906.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3740998.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3603243.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7375498.3/47




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.044+/-0.035 $\chi^2$/NDF:4.5/6

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.054+/-0.038 $\chi^2$/NDF:8.2/5

Left: -0.001+/-0.026 $\chi^2$/NDF: 16.3/12

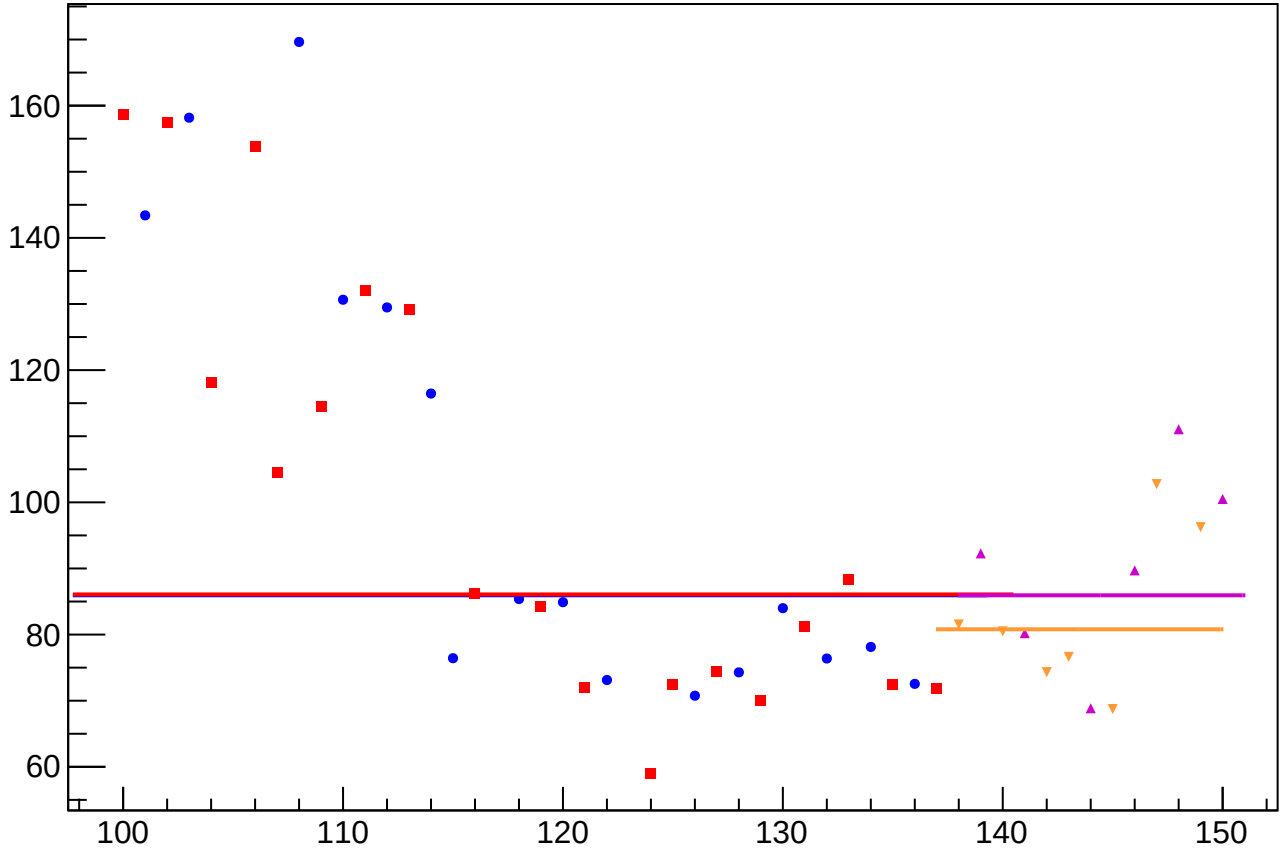
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.060+/-0.025 $\chi^2$/NDF:22.5/21

Out: 0.005+/-0.024 $\chi^2$/NDF:24.9/25

All: -0.026+/-0.017 $\chi^2$/NDF: 50.9/47

asym_sam_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 80.802+/-0.025 $\chi^2$/NDF:179228.5/6

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 85.940+/-0.027 $\chi^2$/NDF:253035.0/5

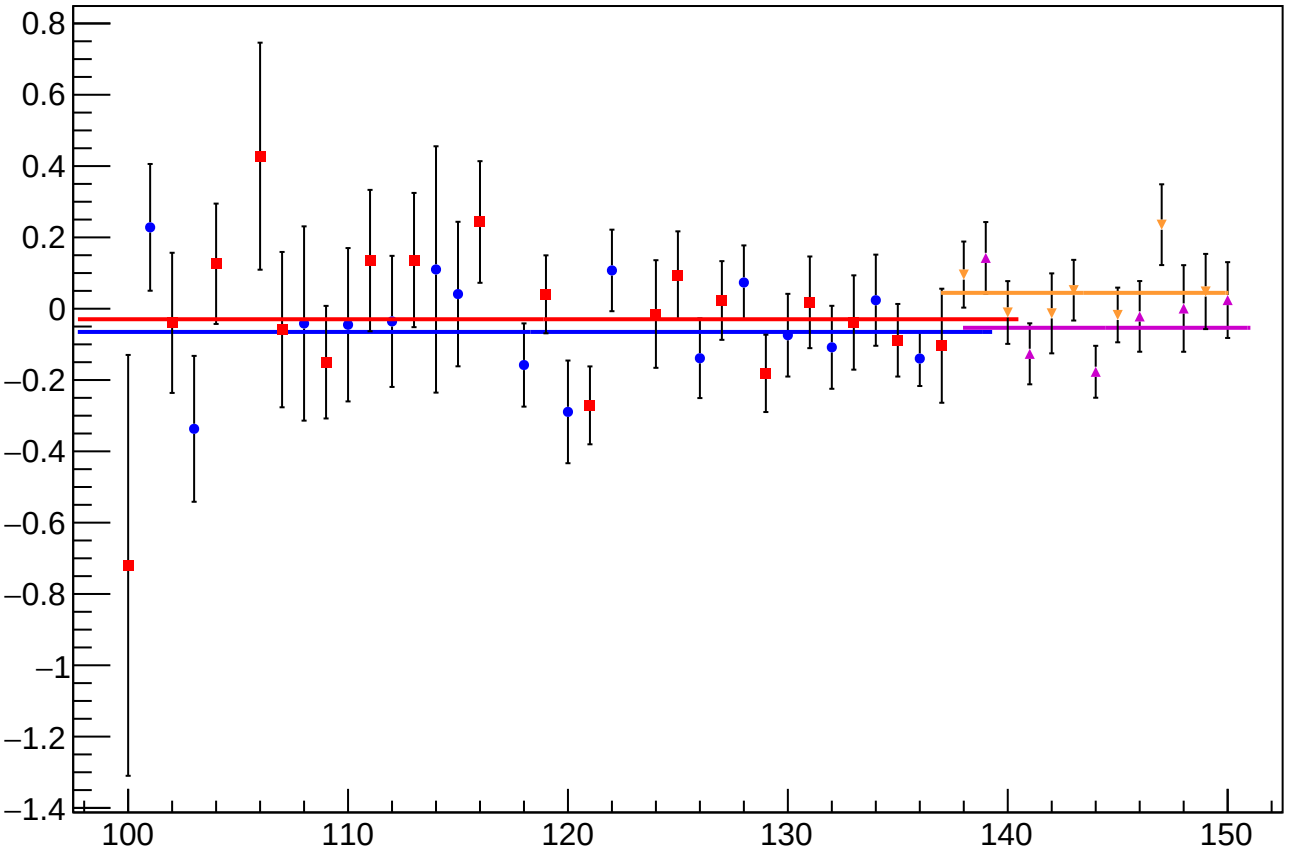
Left: 83.165+/-0.018 $\chi^2$/NDF: 451723.9/12

Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 85.943+/-0.018 $\chi^2$/NDF:1288039.6/21

Out: 83.619+/-0.017 $\chi^2$/NDF:1194403.5/25

All: 84.733+/-0.012 $\chi^2$/NDF: 2491351.3/47




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.044+/-0.035 $\chi^2$/NDF:4.5/6

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.054+/-0.038 $\chi^2$/NDF:8.2/5

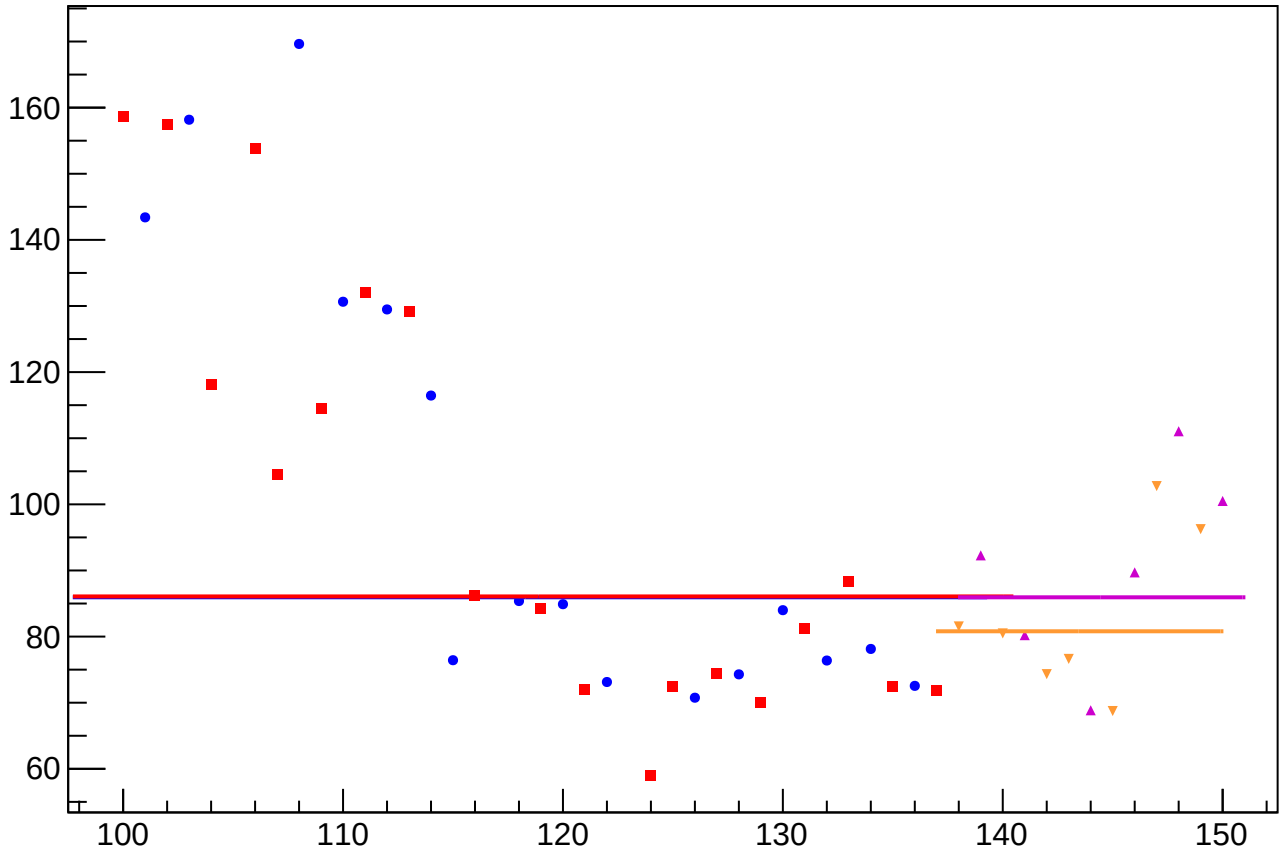
Left: -0.001+/-0.026 $\chi^2$/NDF: 16.3/12

Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.060+/-0.025 $\chi^2$/NDF:22.5/21

Out: 0.005+/-0.024 $\chi^2$/NDF:24.9/25

All: -0.026+/-0.017 $\chi^2$/NDF: 50.9/47




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 80.802+/-0.025 $\chi^2$/NDF:179228.5/6

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 85.940+/-0.027 $\chi^2$/NDF:253035.0/5

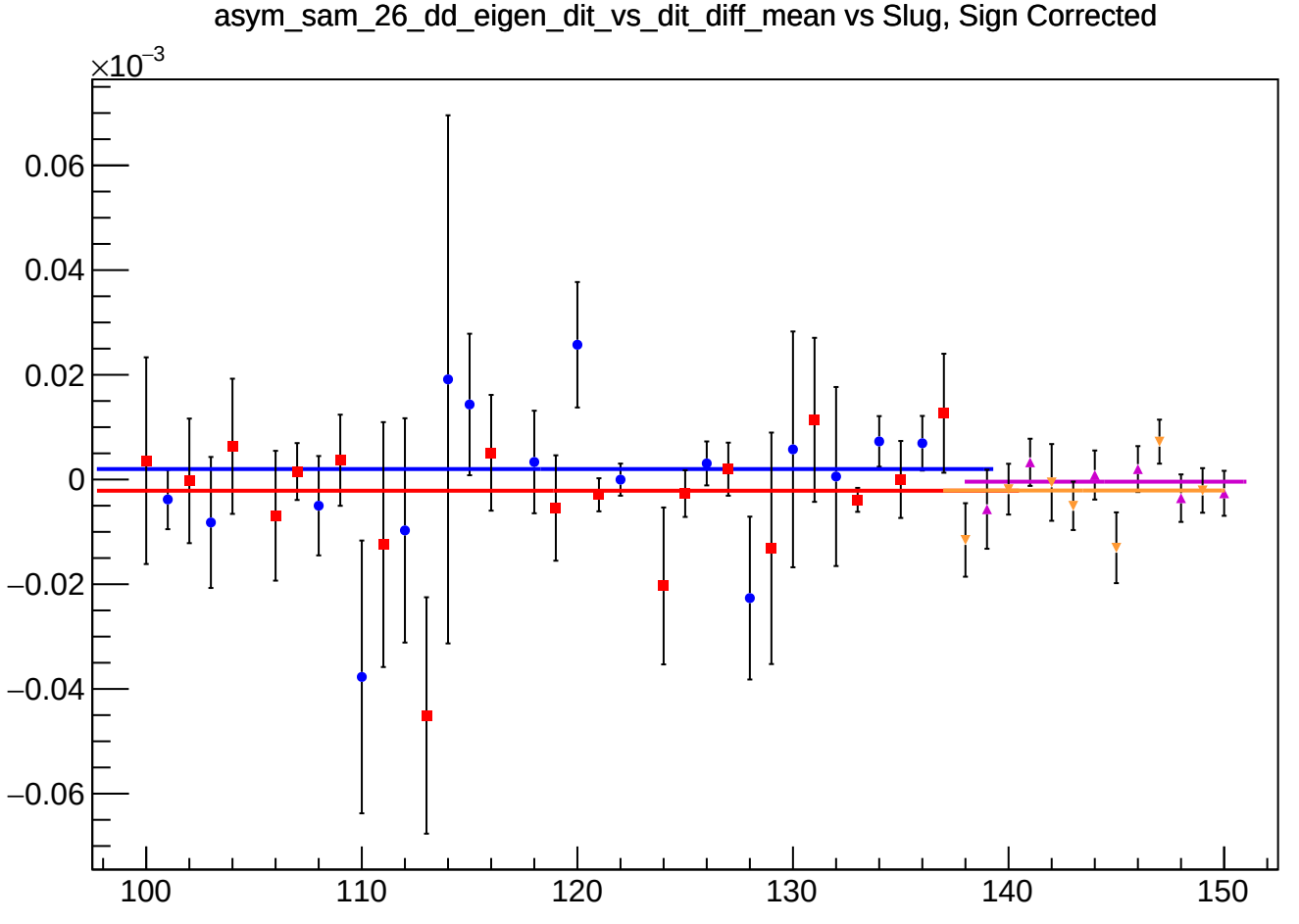
Left: 83.165+/-0.018 $\chi^2$/NDF: 451723.9/12

Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 85.943+/-0.018 $\chi^2$/NDF:1288039.6/21

Out: 83.619+/-0.017 $\chi^2$/NDF:1194403.5/25

All: 84.733+/-0.012 $\chi^2$/NDF: 2491351.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.3/5

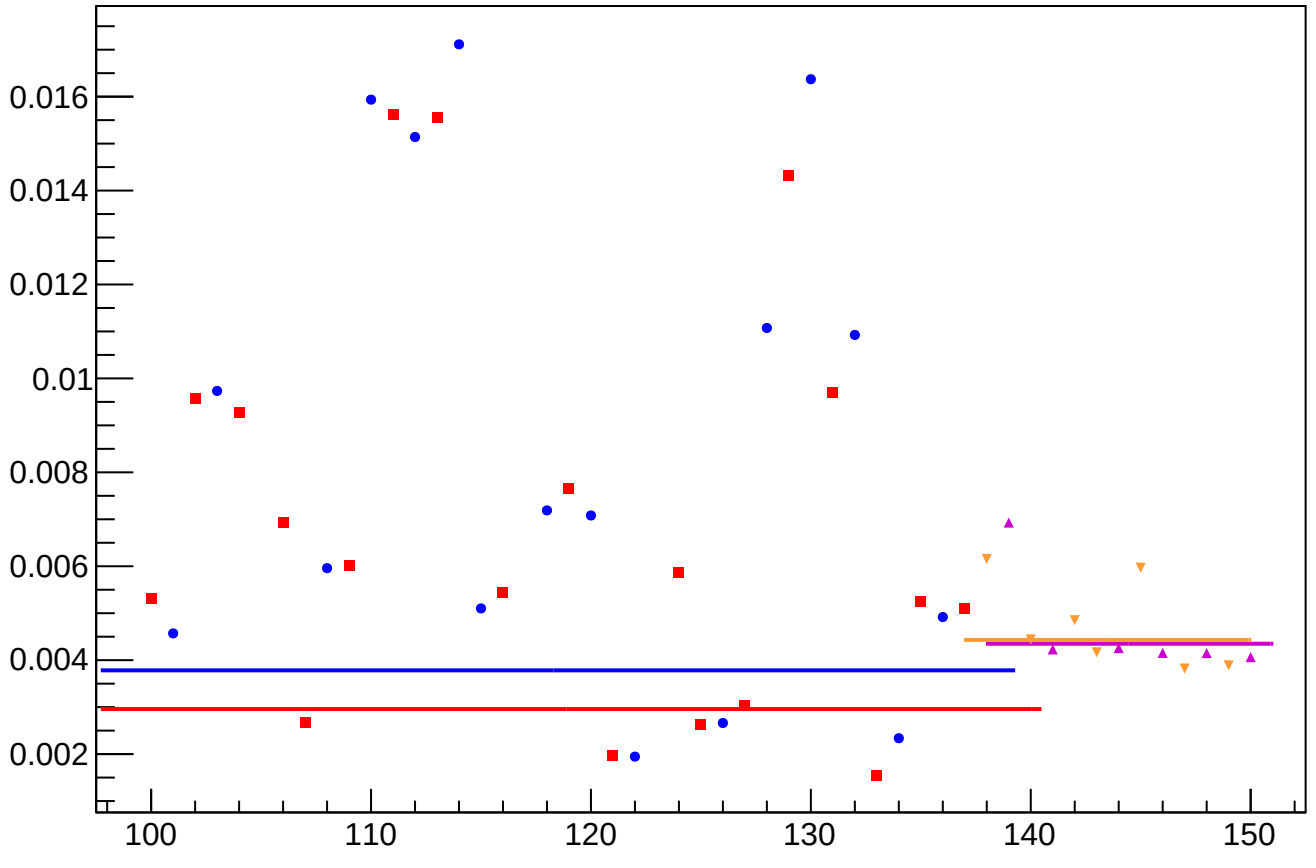
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.5/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:21.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 42.5/47




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4694299.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:311815.8/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5548113.4/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:252653.3/5

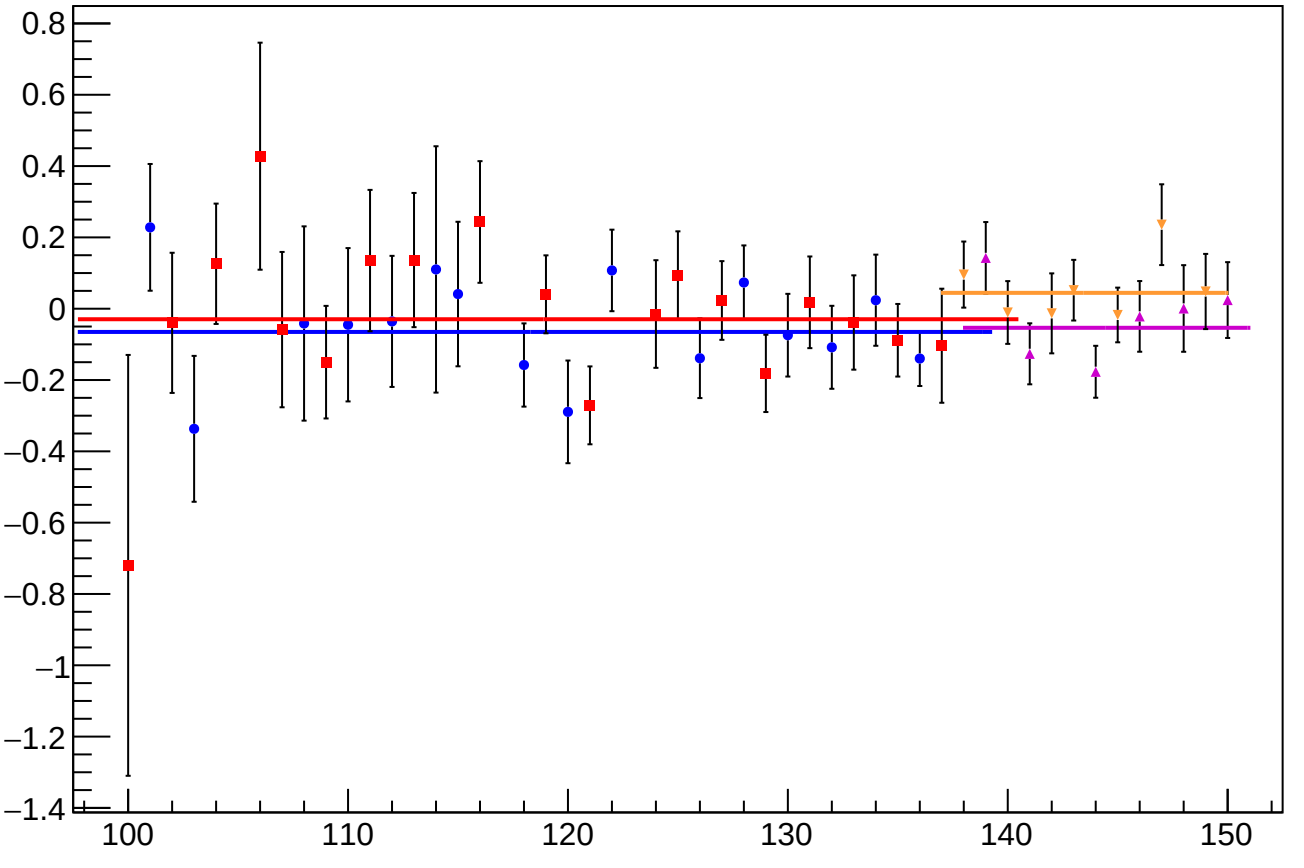
Left: 0.004+/-0.000 $\chi^2$/NDF: 566222.1/12

Right: 0.003+/-0.000 $\chi^2$/NDF: 10513157.6/34

In: 0.004+/-0.000 $\chi^2$/NDF:5041476.6/21

Out: 0.003+/-0.000 $\chi^2$/NDF:6609308.9/25

All: 0.004+/-0.000 $\chi^2$/NDF: 11875297.1/47




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.044+/-0.035 $\chi^2$/NDF:4.5/6

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.054+/-0.038 $\chi^2$/NDF:8.2/5

Left: -0.001+/-0.026 $\chi^2$/NDF: 16.3/12

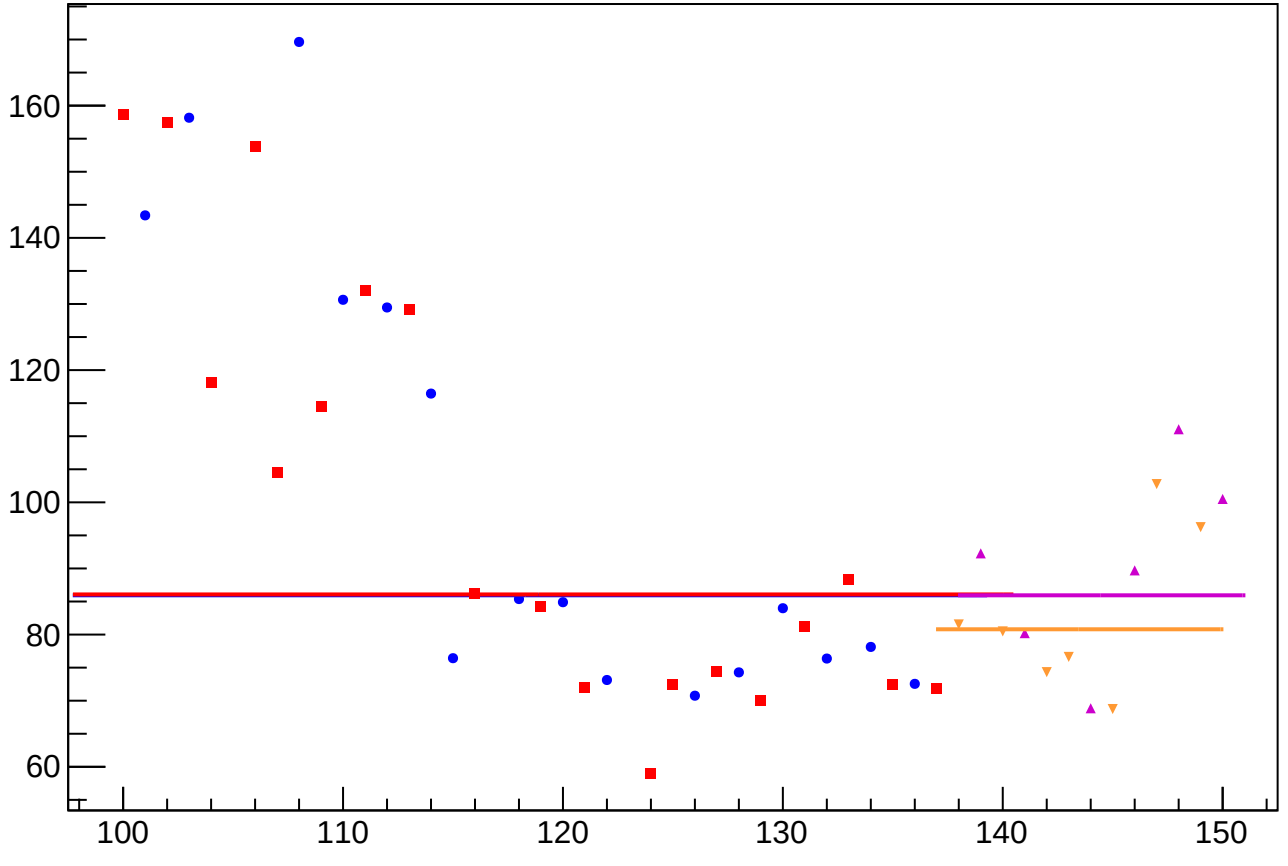
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.060+/-0.025 $\chi^2$/NDF:22.5/21

Out: 0.005+/-0.024 $\chi^2$/NDF:24.9/25

All: -0.026+/-0.017 $\chi^2$/NDF: 50.9/47

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.943+/-0.024 $\chi^2$/NDF: 1034986.7/15

Left Out: 80.801+/-0.025 $\chi^2$/NDF:179249.0/6

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 85.939+/-0.027 $\chi^2$/NDF:253037.7/5

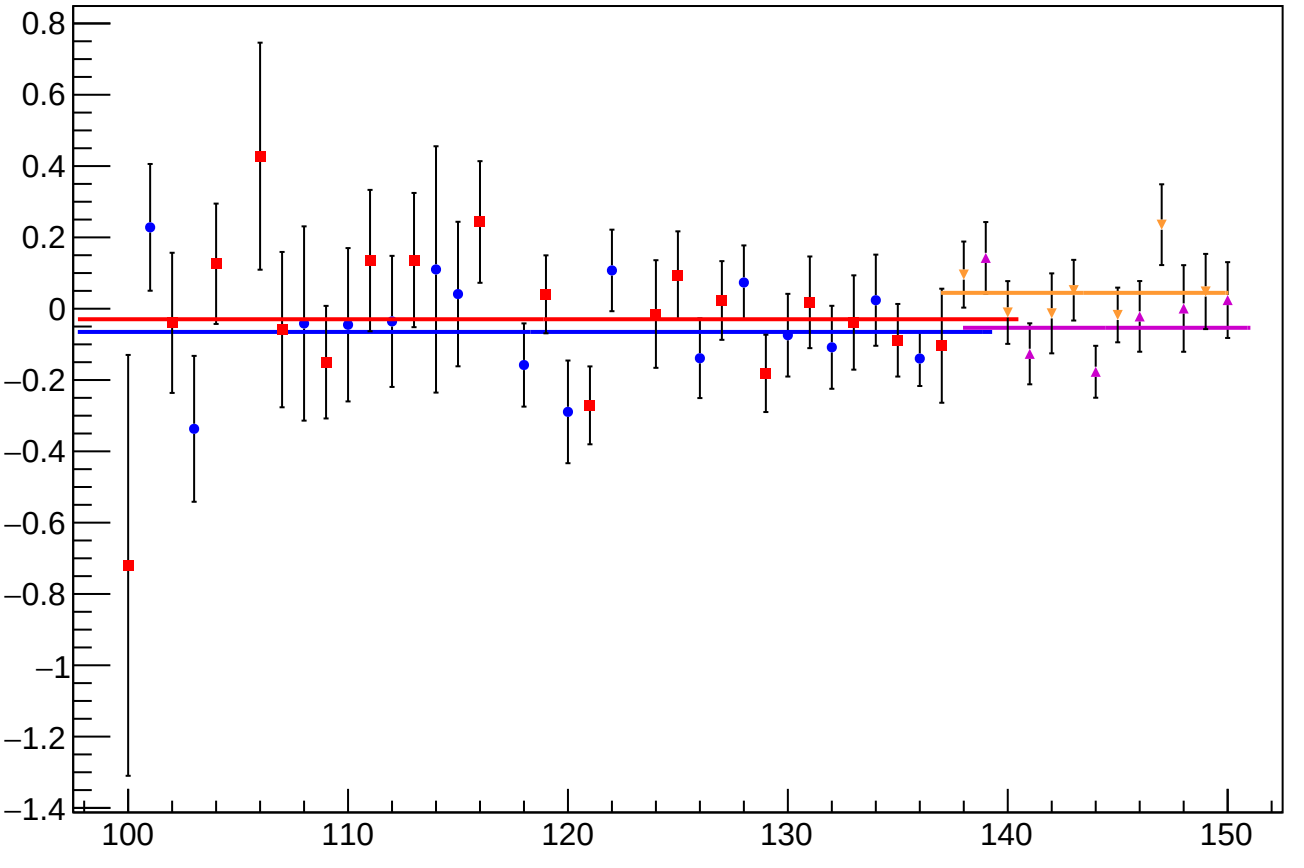
Left: 83.164+/-0.018 $\chi^2$/NDF: 451749.2/12

Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 85.941+/-0.018 $\chi^2$/NDF:1288024.4/21

Out: 83.618+/-0.017 $\chi^2$/NDF:1194407.2/25

All: 84.731+/-0.012 $\chi^2$/NDF: 2491338.7/47




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.044+/-0.035 $\chi^2$/NDF:4.5/6

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.054+/-0.038 $\chi^2$/NDF:8.2/5

Left: -0.001+/-0.026 $\chi^2$/NDF: 16.3/12

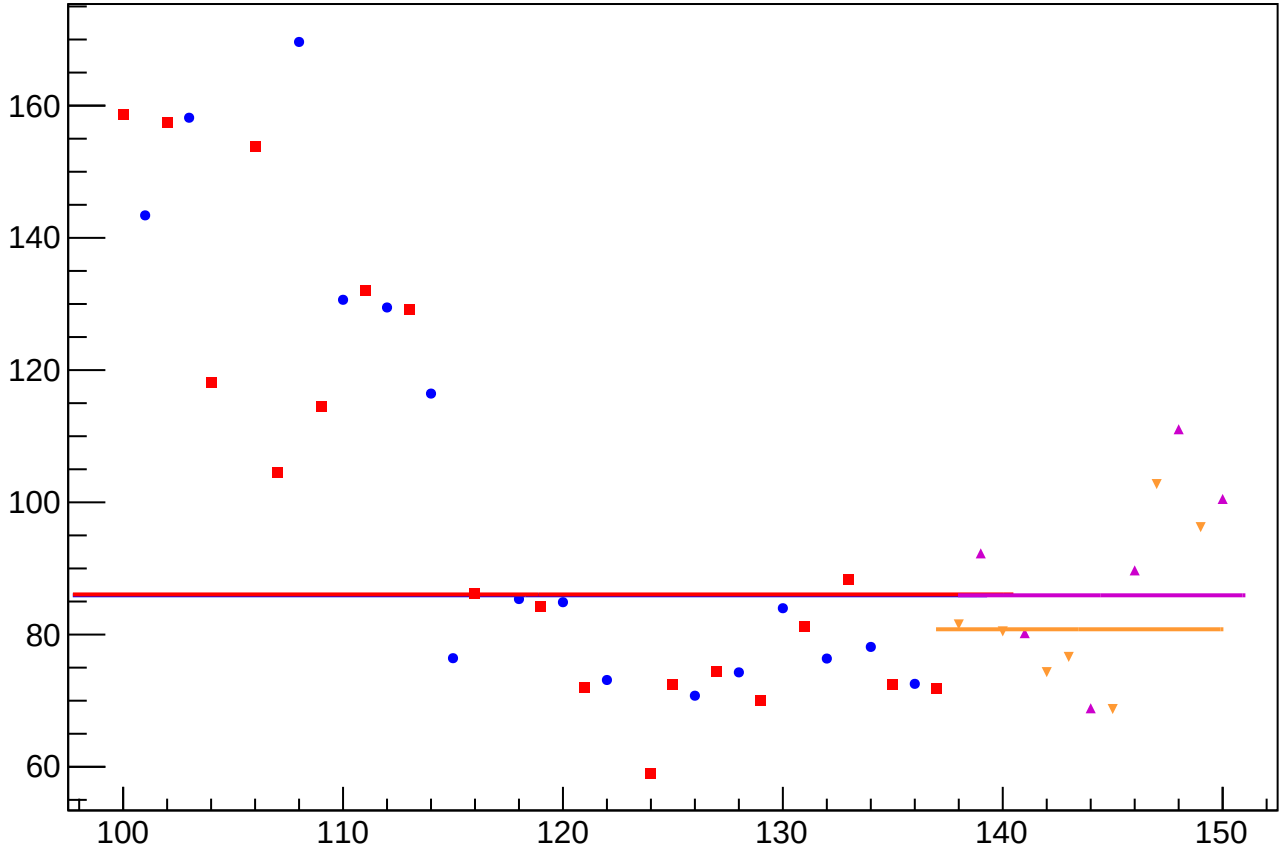
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.060+/-0.025 $\chi^2$/NDF:22.5/21

Out: 0.005+/-0.024 $\chi^2$/NDF:24.9/25

All: -0.026+/-0.017 $\chi^2$/NDF: 50.9/47

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.943+/-0.024 $\chi^2$/NDF: 1034986.7/15

Left Out: 80.801+/-0.025 $\chi^2$/NDF:179249.0/6

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 85.939+/-0.027 $\chi^2$/NDF:253037.7/5

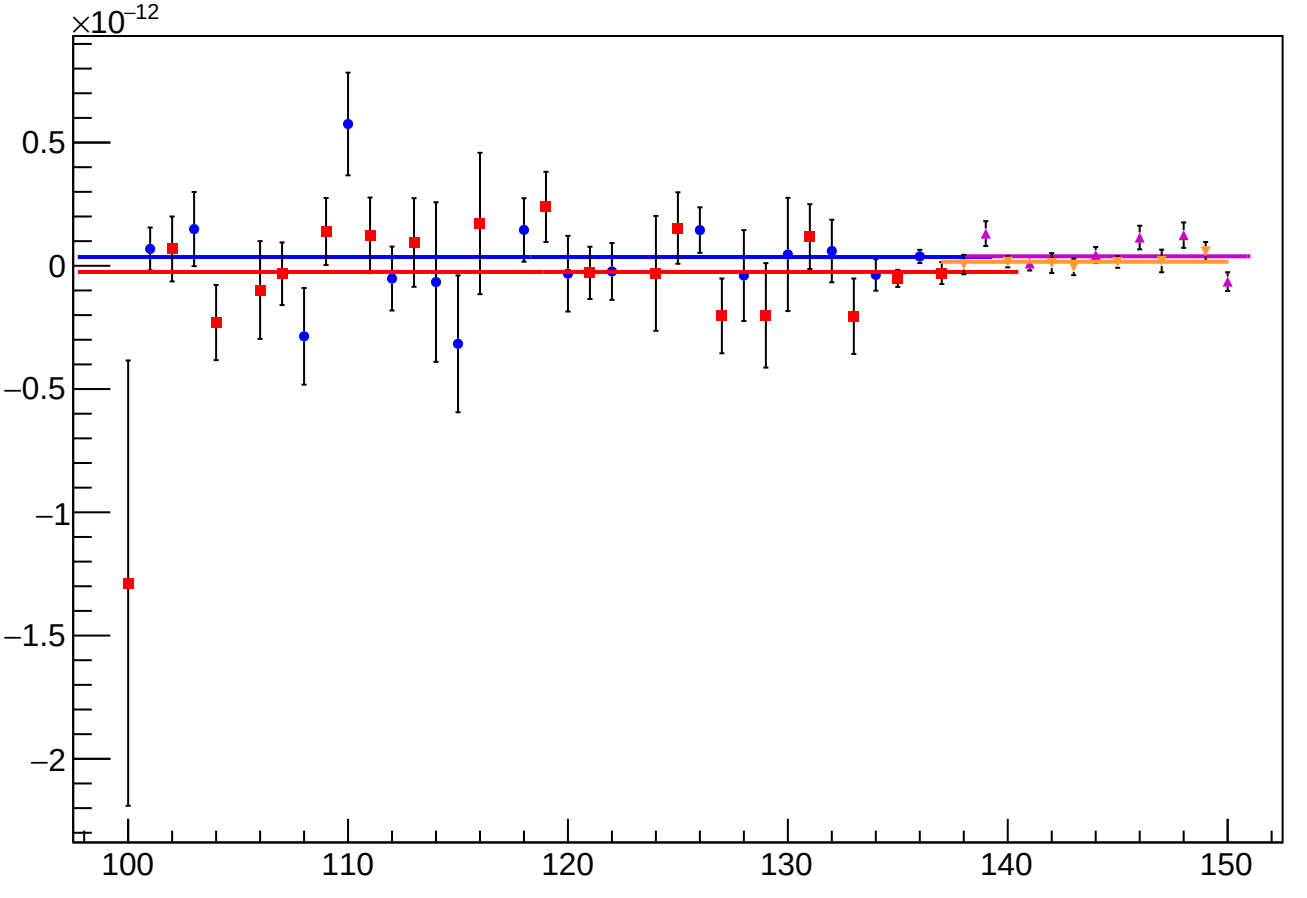
Left: 83.164+/-0.018 $\chi^2$/NDF: 451749.2/12

Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 85.941+/-0.018 $\chi^2$/NDF:1288024.4/21

Out: 83.618+/-0.017 $\chi^2$/NDF:1194407.2/25

All: 84.731+/-0.012 $\chi^2$/NDF: 2491338.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 20.0/12

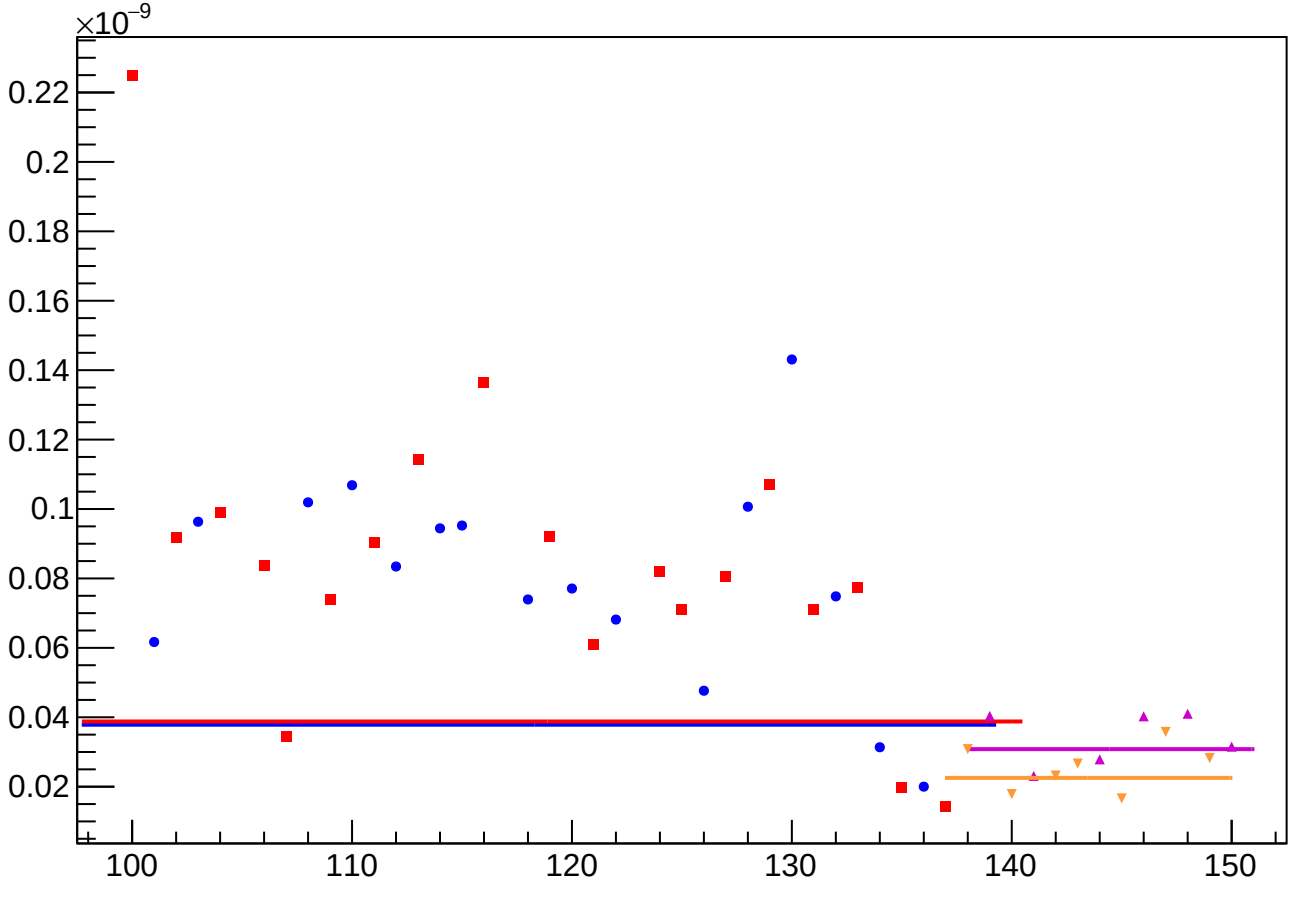
Right: 0.000+/-0.000 $\chi^2$/NDF: 38.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:33.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 59.1/47

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3456922.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:542349.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4121603.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:391054.0/5

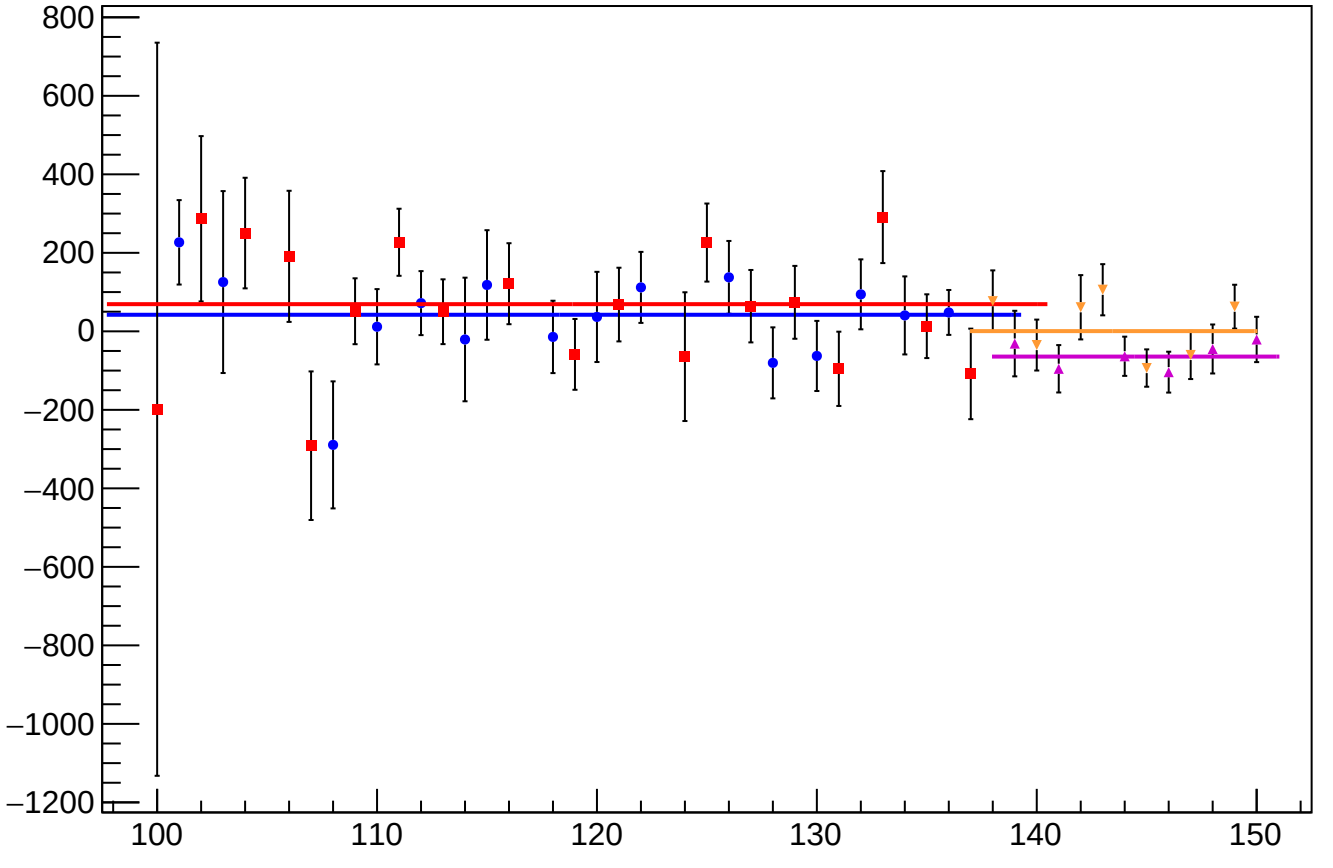
Left: 0.000+/-0.000 $\chi^2$/NDF: 1287412.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 7580417.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:3995331.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:5496895.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 9884153.7/47




Right In: 42.220+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: 0.566+/-23.490 $\chi^2$/NDF:10.5/6

Right Out: 69.249+/-24.418 $\chi^2$/NDF: 25.4/18

Left In: -64.318+/-23.944 $\chi^2$/NDF:1.7/5

Left: -31.255+/-16.768 $\chi^2$/NDF: 16.0/12

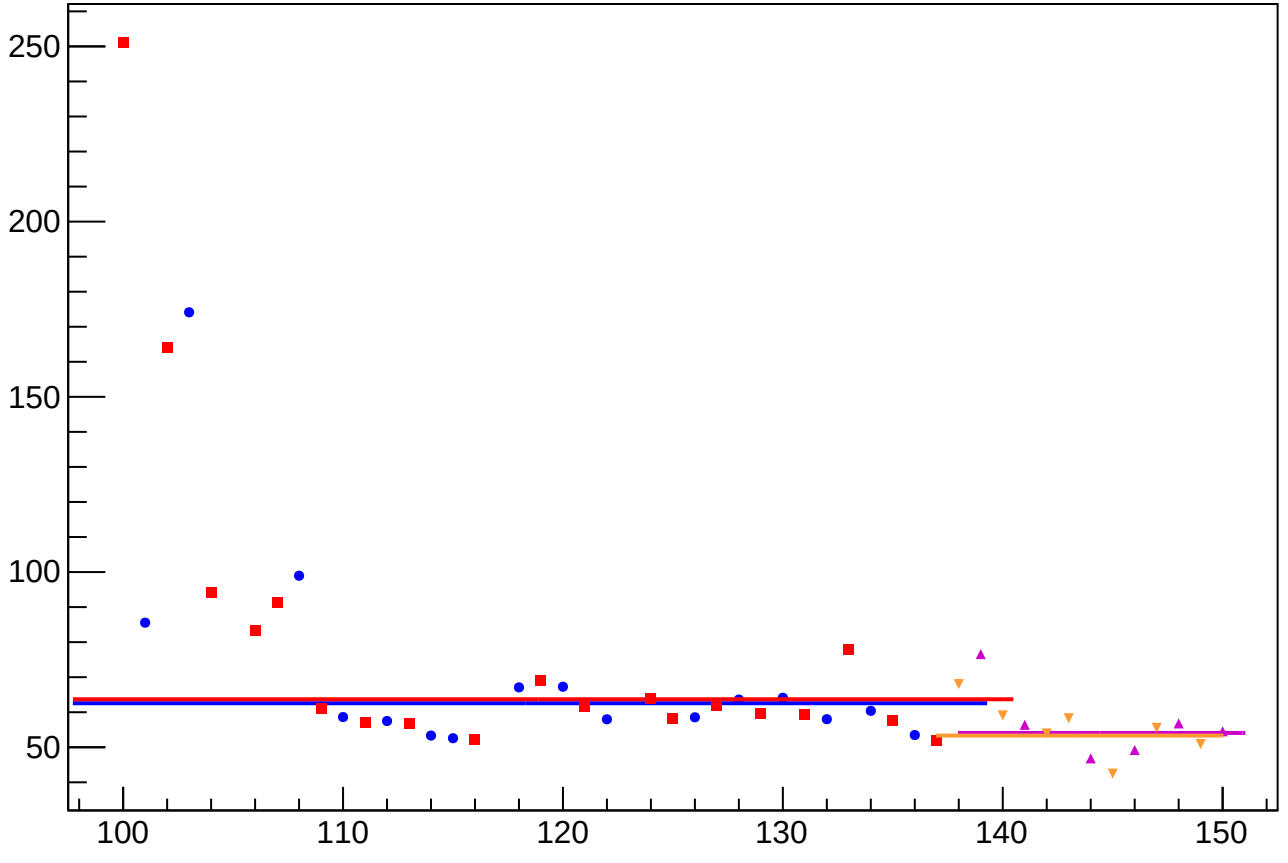
Right: 55.617+/-17.191 $\chi^2$/NDF: 39.5/34

In: -11.631+/-17.023 $\chi^2$/NDF:25.0/21

Out: 33.578+/-16.929 $\chi^2$/NDF:40.0/25

All: 11.099+/-12.004 $\chi^2$/NDF: 68.6/47

# reg_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758603.5/15

Left Out: 53.343+/-0.017 $\chi^2$/NDF:208044.9/6

Right Out: 63.699+/-0.017 $\chi^2$/NDF: 834180.2/18

Left In: 54.093+/-0.017 $\chi^2$/NDF:211849.6/5

Left: 53.711+/-0.012 $\chi^2$/NDF: 420895.4/12

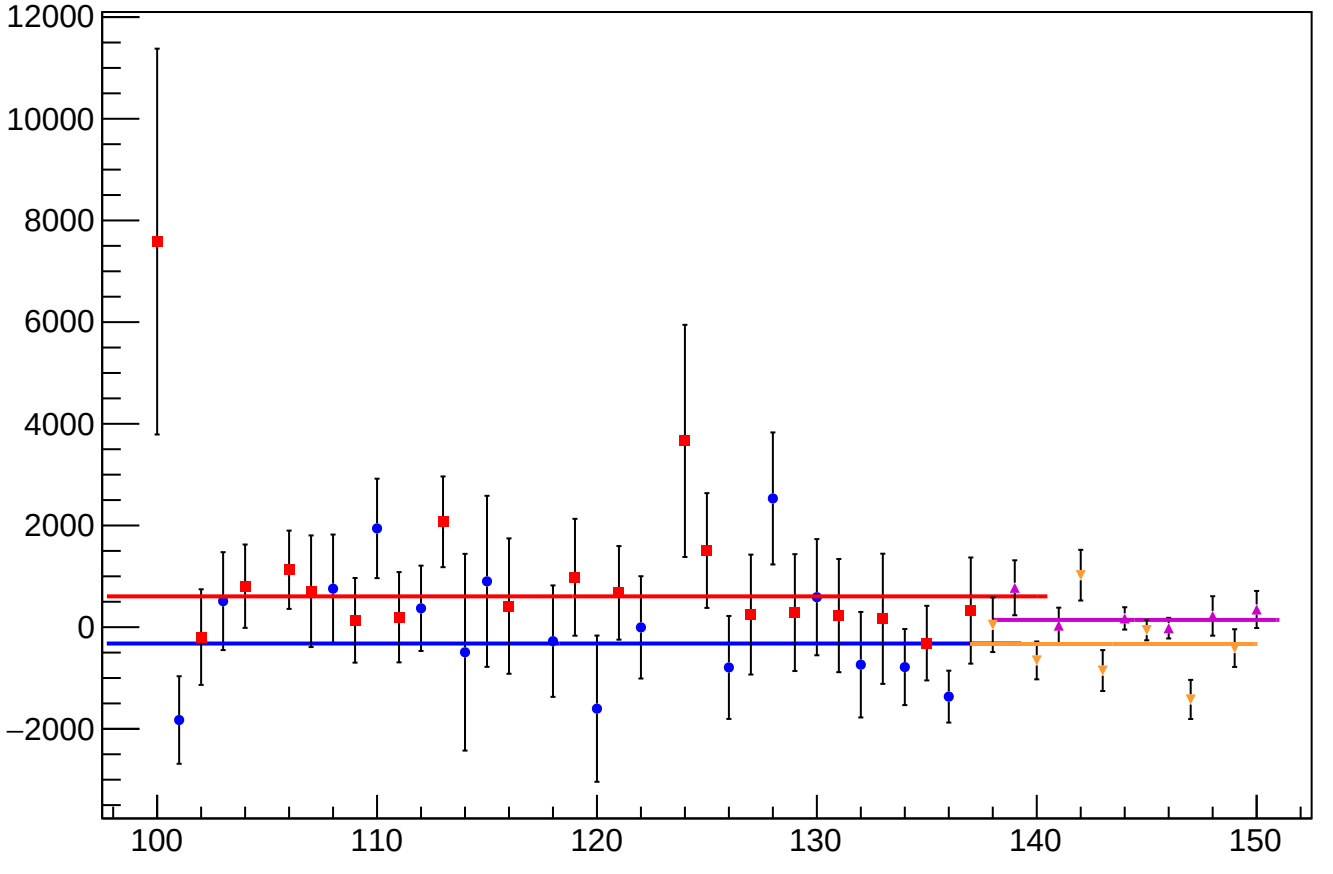
Right: 63.127+/-0.012 $\chi^2$/NDF: 1594958.1/34

In: 58.283+/-0.012 $\chi^2$/NDF:1094280.8/21

Out: 58.321+/-0.012 $\chi^2$/NDF:1229065.8/25

All: 58.302+/-0.008 $\chi^2$/NDF: 2323351.4/47

asym_sam_37_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -321.663+/-238.482 $\chi^2$/NDF: 22.7/15

Left Out: -330.196+/-129.294 $\chi^2$/NDF:20.2/6

Right Out: 605.859+/-233.643 $\chi^2$/NDF: 12.5/18

Left In: 142.598+/-118.906 $\chi^2$/NDF:2.5/5

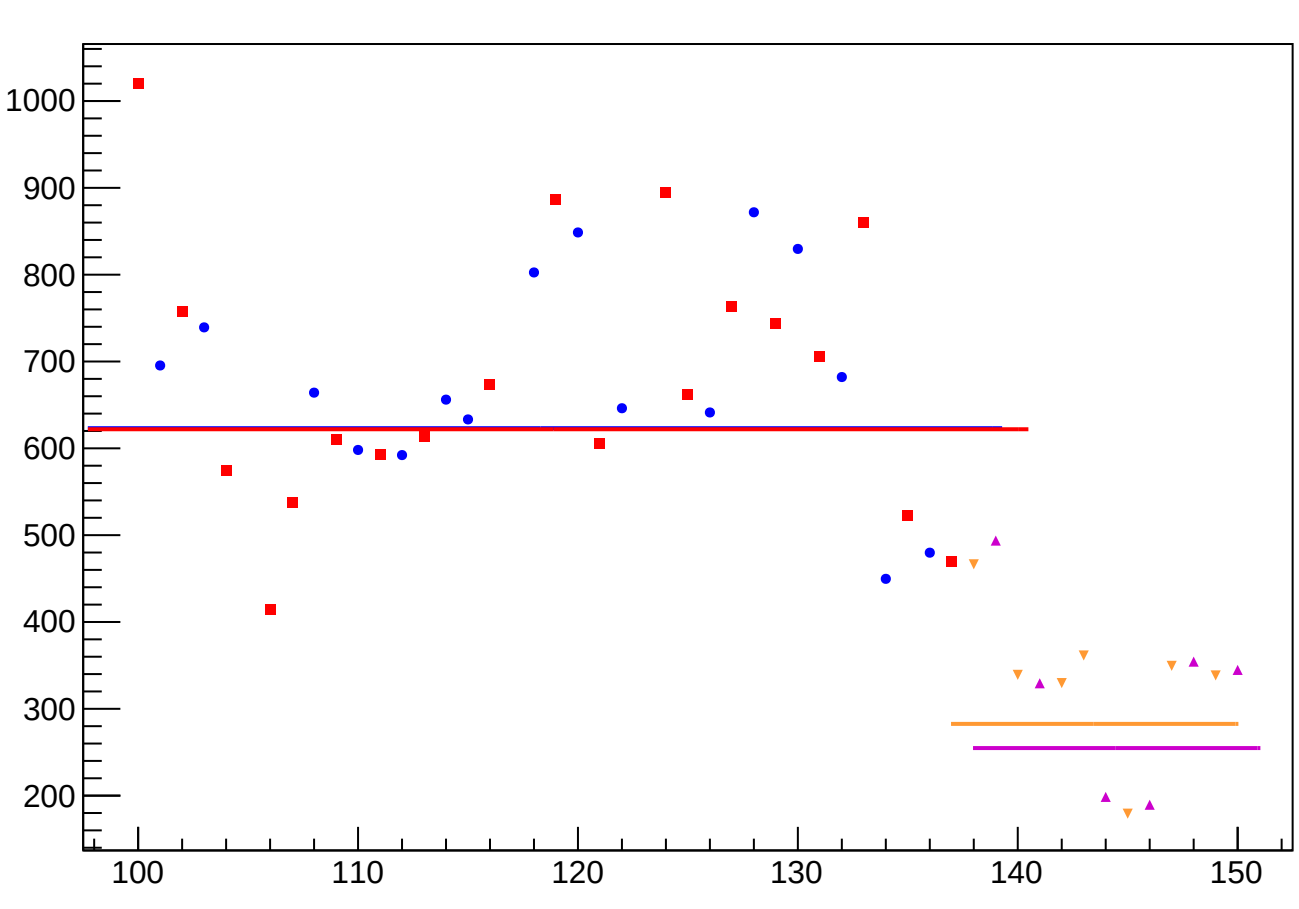
Left: -74.046+/-87.522 $\chi^2$/NDF: 30.0/12

Right: 151.604+/-166.895 $\chi^2$/NDF: 42.9/34

In: 50.163+/-106.412 $\chi^2$/NDF:28.2/21

Out: -110.748+/-113.127 $\chi^2$/NDF:45.0/25

All: -25.376+/-77.510 $\chi^2$/NDF: 74.3/47




Right In: 623.181+/-0.169 $\chi^2$/NDF: 565524.7/15

Left Out: 282.639+/-0.091 $\chi^2$/NDF:1013078.8/6

Right Out: 621.975+/-0.165 $\chi^2$/NDF: 582591.9/18

Left In: 254.791+/-0.084 $\chi^2$/NDF:1072504.4/5

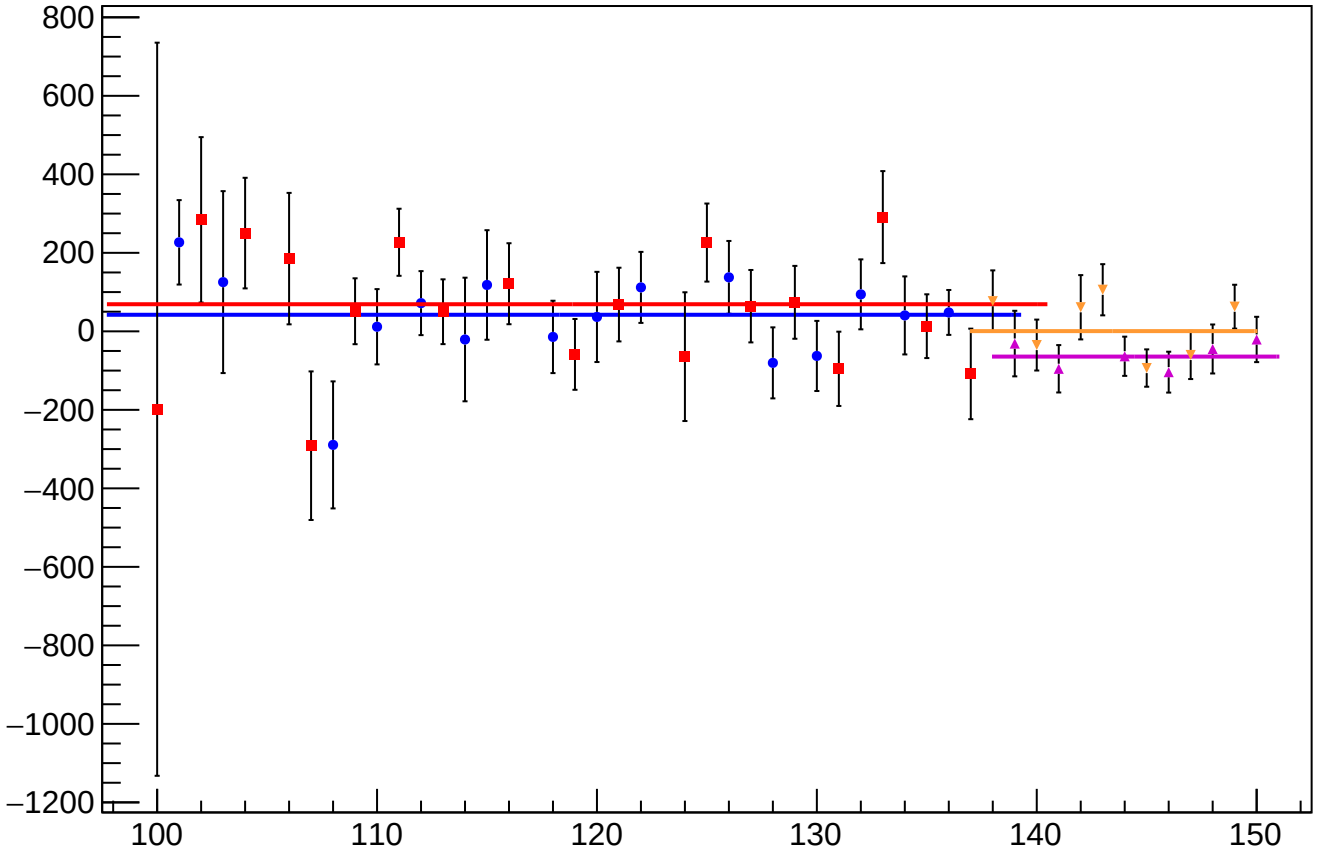
Left: 267.551+/-0.062 $\chi^2$/NDF: 2135850.4/12

Right: 622.565+/-0.118 $\chi^2$/NDF: 1148142.8/34

In: 328.137+/-0.075 $\chi^2$/NDF:5460216.4/21

Out: 362.192+/-0.080 $\chi^2$/NDF:4825383.0/25

All: 344.124+/-0.055 $\chi^2$/NDF: 10381757.4/47




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: 0.569+/-23.490 $\chi^2$/NDF:10.5/6

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -64.317+/-23.944 $\chi^2$/NDF:1.7/5

Left: -31.253+/-16.768 $\chi^2$/NDF: 16.0/12

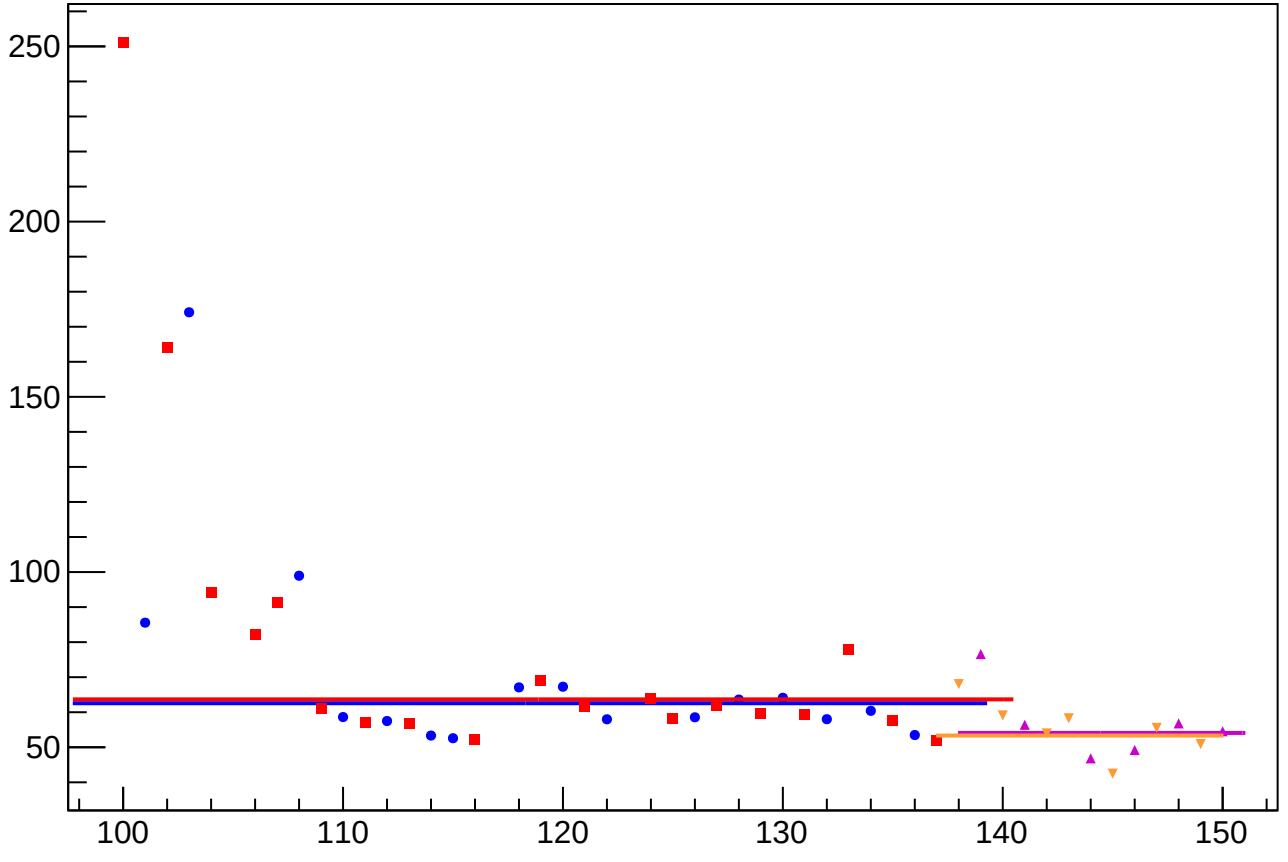
Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: -11.633+/-17.023 $\chi^2$/NDF:25.0/21

Out: 33.490+/-16.929 $\chi^2$/NDF:39.9/25

All: 11.053+/-12.004 $\chi^2$/NDF: 68.5/47

# cor_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 53.343+/-0.017 $\chi^2$/NDF:208044.9/6

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 54.093+/-0.017 $\chi^2$/NDF:211849.6/5

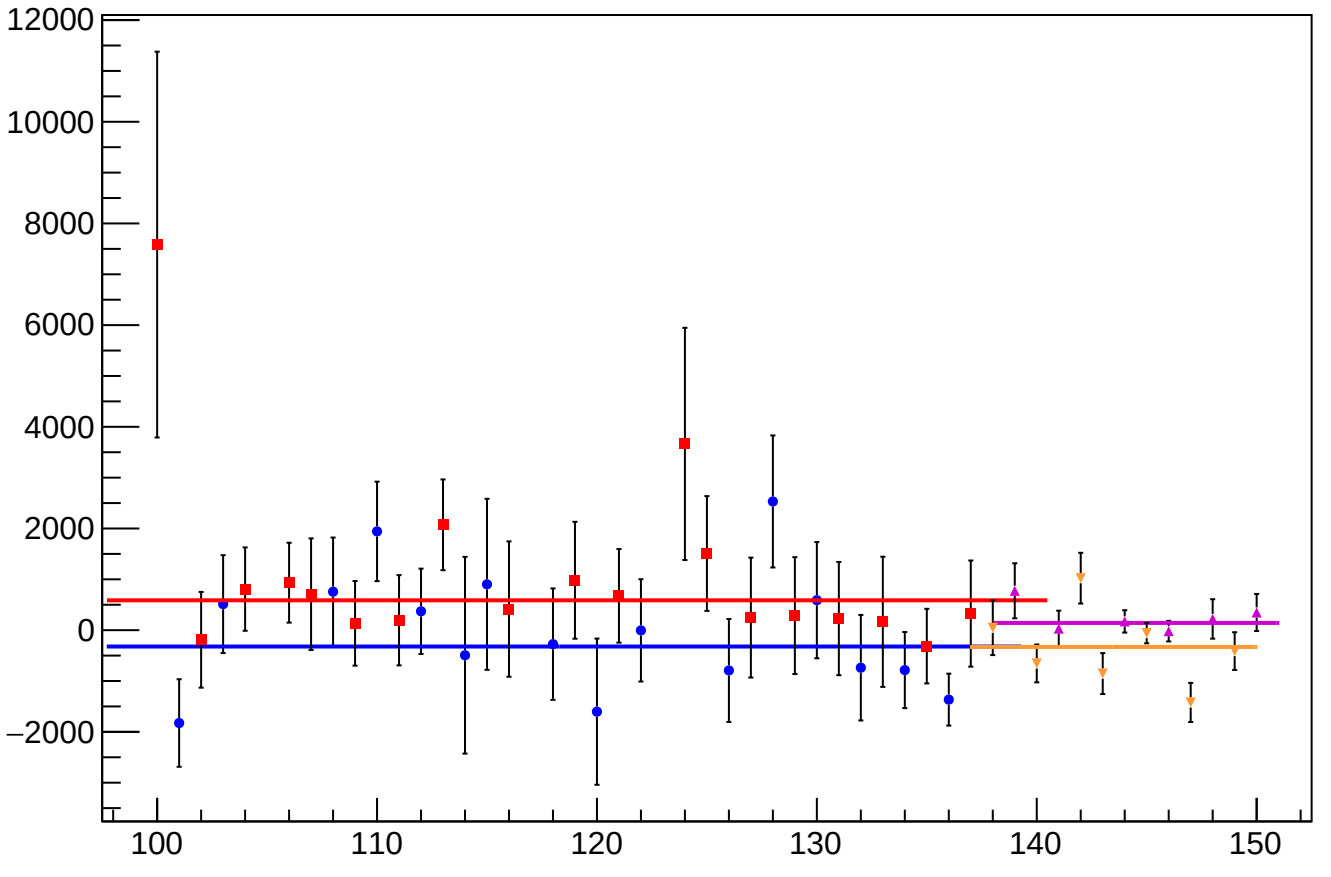
Left: 53.711+/-0.012 $\chi^2$/NDF: 420895.4/12

Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 58.283+/-0.012 $\chi^2$/NDF:1094282.8/21

Out: 58.309+/-0.012 $\chi^2$/NDF:1225436.4/25

All: 58.296+/-0.008 $\chi^2$/NDF: 2319721.4/47




Right In: -321.660+/-238.484 $\chi^2$/NDF: 22.7/15

Left Out: -330.194+/-129.294 $\chi^2$/NDF:20.2/6

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 142.603+/-118.906 $\chi^2$/NDF:2.5/5

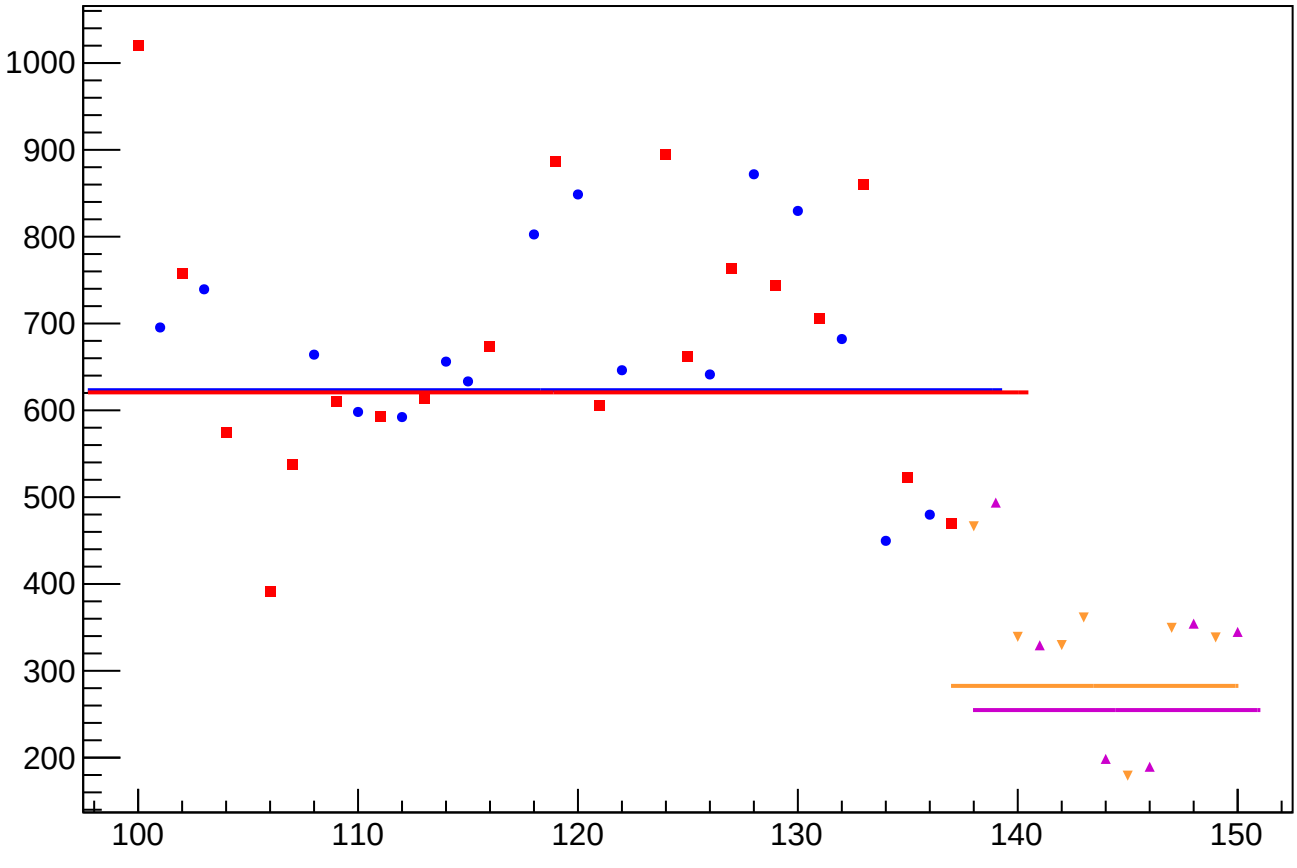
Left: -74.042+/-87.521 $\chi^2$/NDF: 30.0/12

Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 50.169+/-106.412 $\chi^2$/NDF:28.2/21

Out: -115.730+/-113.177 $\chi^2$/NDF:44.2/25

All: -27.675+/-77.526 $\chi^2$/NDF: 73.6/47




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 282.638+/-0.091 $\chi^2$/NDF:1013083.5/6

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 254.790+/-0.084 $\chi^2$/NDF:1072509.7/5

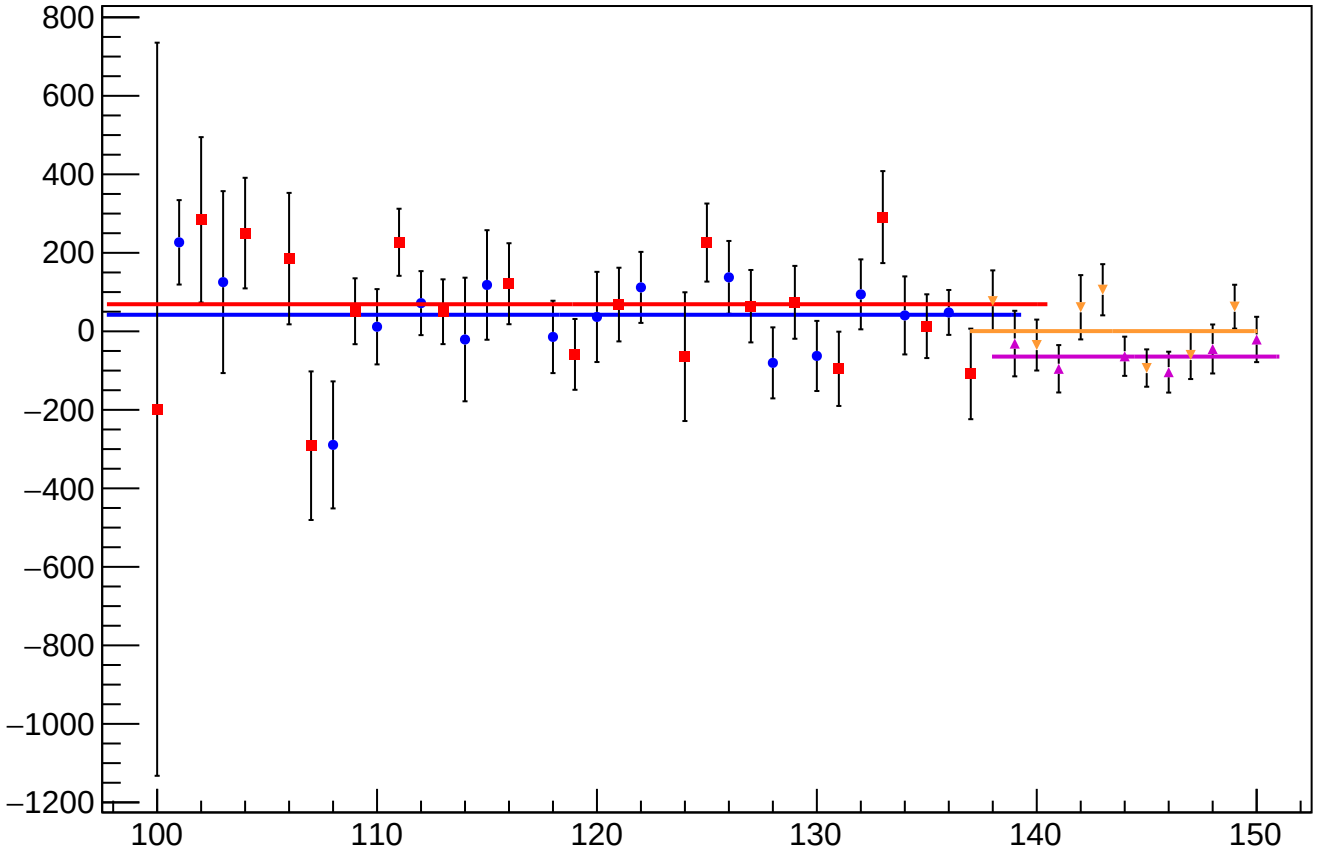
Left: 267.551+/-0.062 $\chi^2$/NDF: 2135860.2/12

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 328.137+/-0.075 $\chi^2$/NDF:5460282.6/21

Out: 361.660+/-0.080 $\chi^2$/NDF:4819437.2/25

All: 343.867+/-0.055 $\chi^2$/NDF: 10372856.4/47




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: 0.569+/-23.490 $\chi^2$/NDF:10.5/6

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -64.317+/-23.944 $\chi^2$/NDF:1.7/5

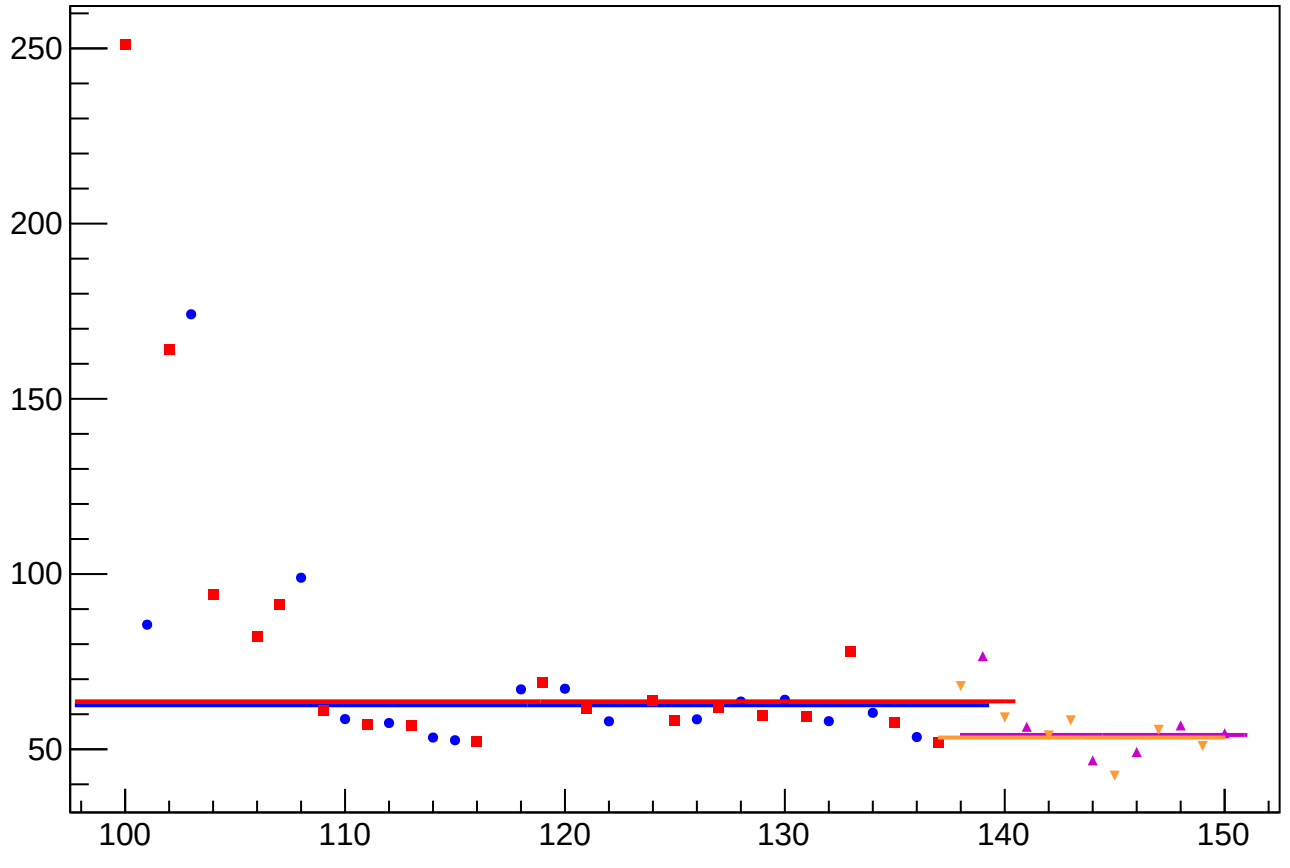
Left: -31.253+/-16.768 $\chi^2$/NDF: 16.0/12

Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: -11.633+/-17.023 $\chi^2$/NDF:25.0/21

Out: 33.490+/-16.929 $\chi^2$/NDF:39.9/25

All: 11.053+/-12.004 $\chi^2$/NDF: 68.5/47




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 53.343+/-0.017 $\chi^2$/NDF:208044.9/6

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 54.093+/-0.017 $\chi^2$/NDF:211849.6/5

Left: 53.711+/-0.012 $\chi^2$/NDF: 420895.4/12

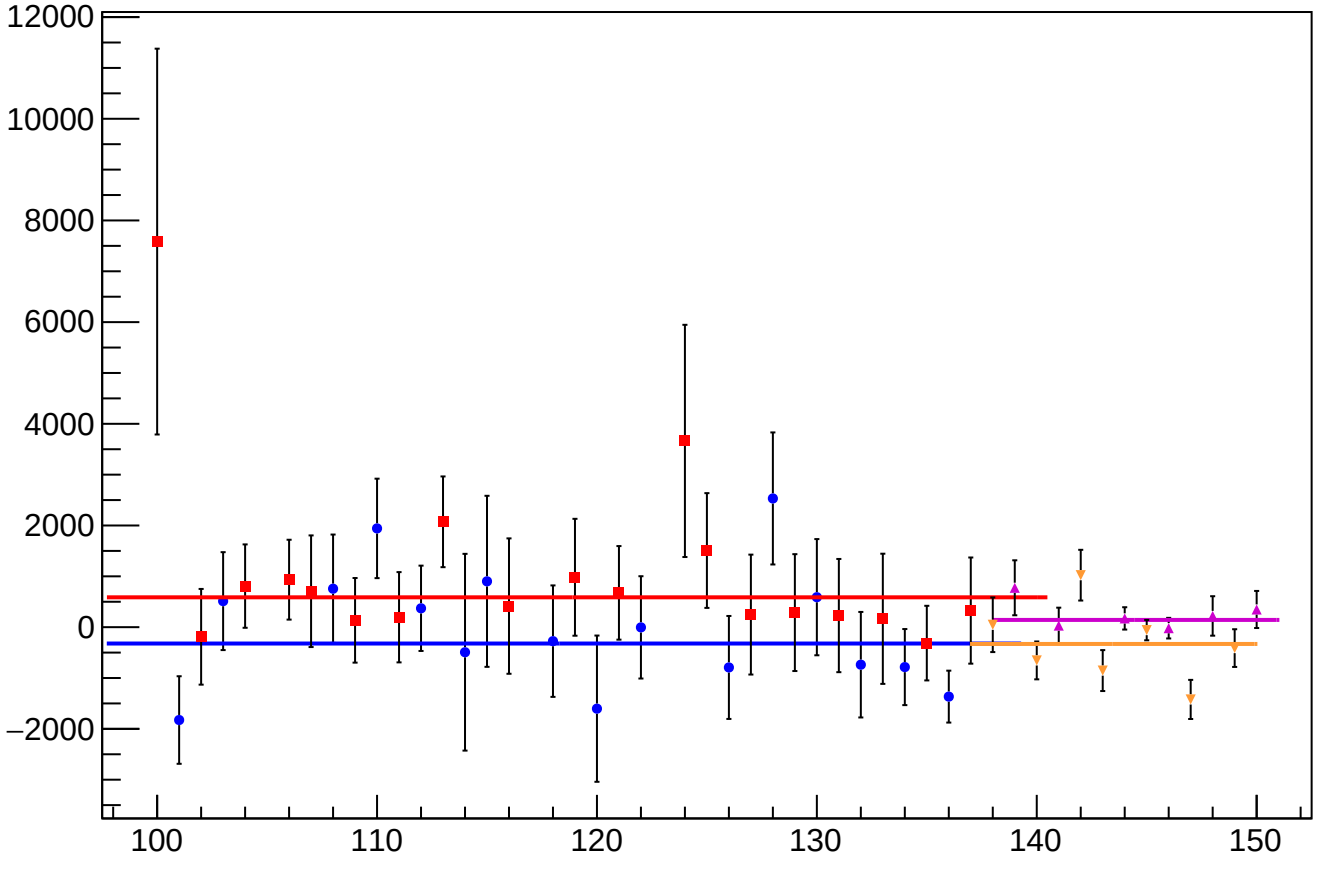
Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 58.283+/-0.012 $\chi^2$/NDF:1094282.8/21

Out: 58.309+/-0.012 $\chi^2$/NDF:1225436.4/25

All: 58.296+/-0.008 $\chi^2$/NDF: 2319721.4/47

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -321.660+/-238.484 $\chi^2$/NDF: 22.7/15

Left Out: -330.194+/-129.294 $\chi^2$/NDF:20.2/6

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 142.603+/-118.906 $\chi^2$/NDF:2.5/5

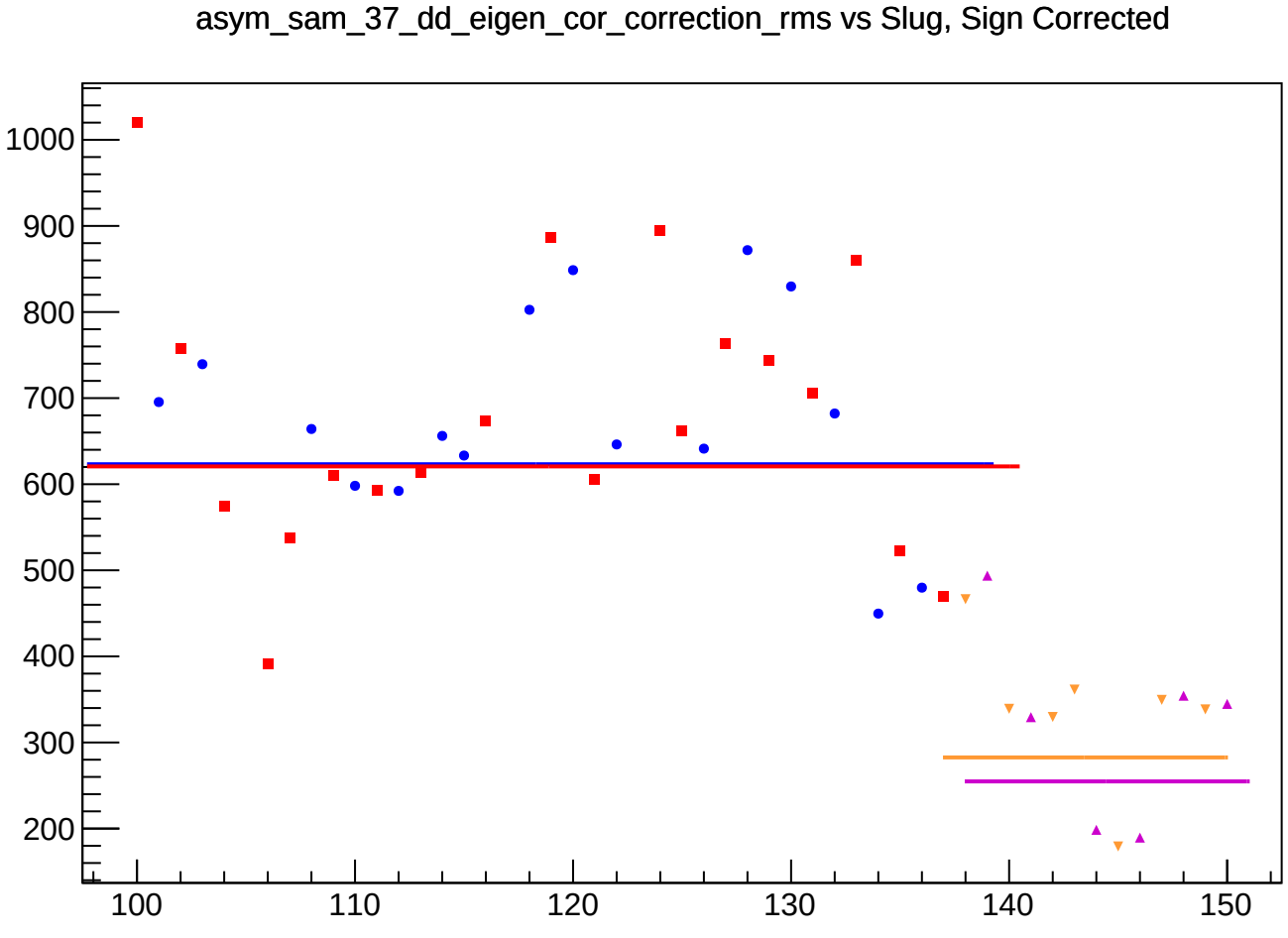
Left: -74.042+/-87.521 $\chi^2$/NDF: 30.0/12

Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 50.169+/-106.412 $\chi^2$/NDF:28.2/21

Out: -115.730+/-113.177 $\chi^2$/NDF:44.2/25

All: -27.675+/-77.526 $\chi^2$/NDF: 73.6/47




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 282.638+/-0.091 $\chi^2$/NDF:1013083.5/6

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 254.790+/-0.084 $\chi^2$/NDF:1072509.7/5

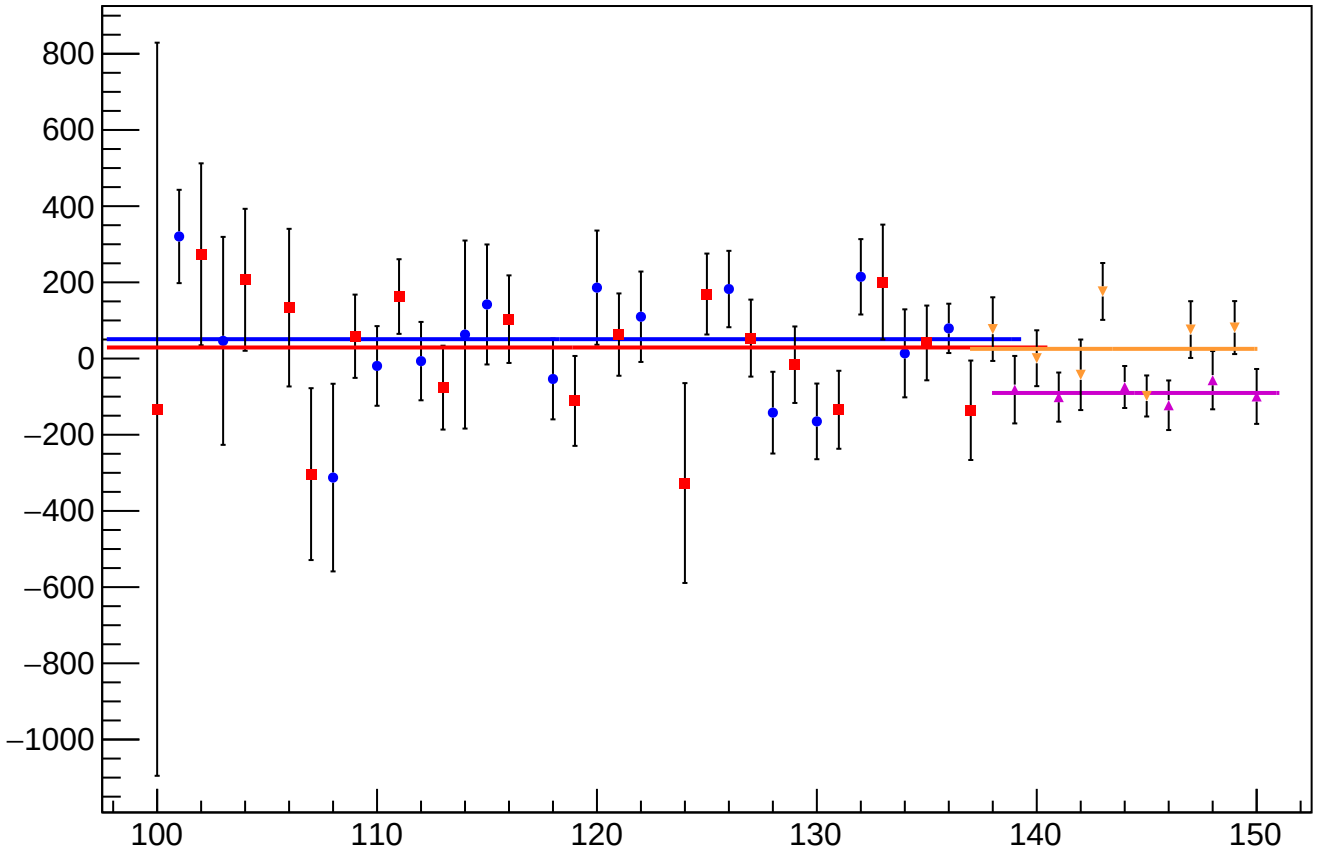
Left: 267.551+/-0.062 $\chi^2$/NDF: 2135860.2/12

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 328.137+/-0.075 $\chi^2$/NDF:5460282.6/21

Out: 361.660+/-0.080 $\chi^2$/NDF:4819437.2/25

All: 343.867+/-0.055 $\chi^2$/NDF: 10372856.4/47




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: 25.447+/-27.146 $\chi^2$/NDF:11.5/6

Right Out: 29.040+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -90.331+/-27.770 $\chi^2$/NDF:0.6/5

Left: -31.126+/-19.412 $\chi^2$/NDF: 21.0/12

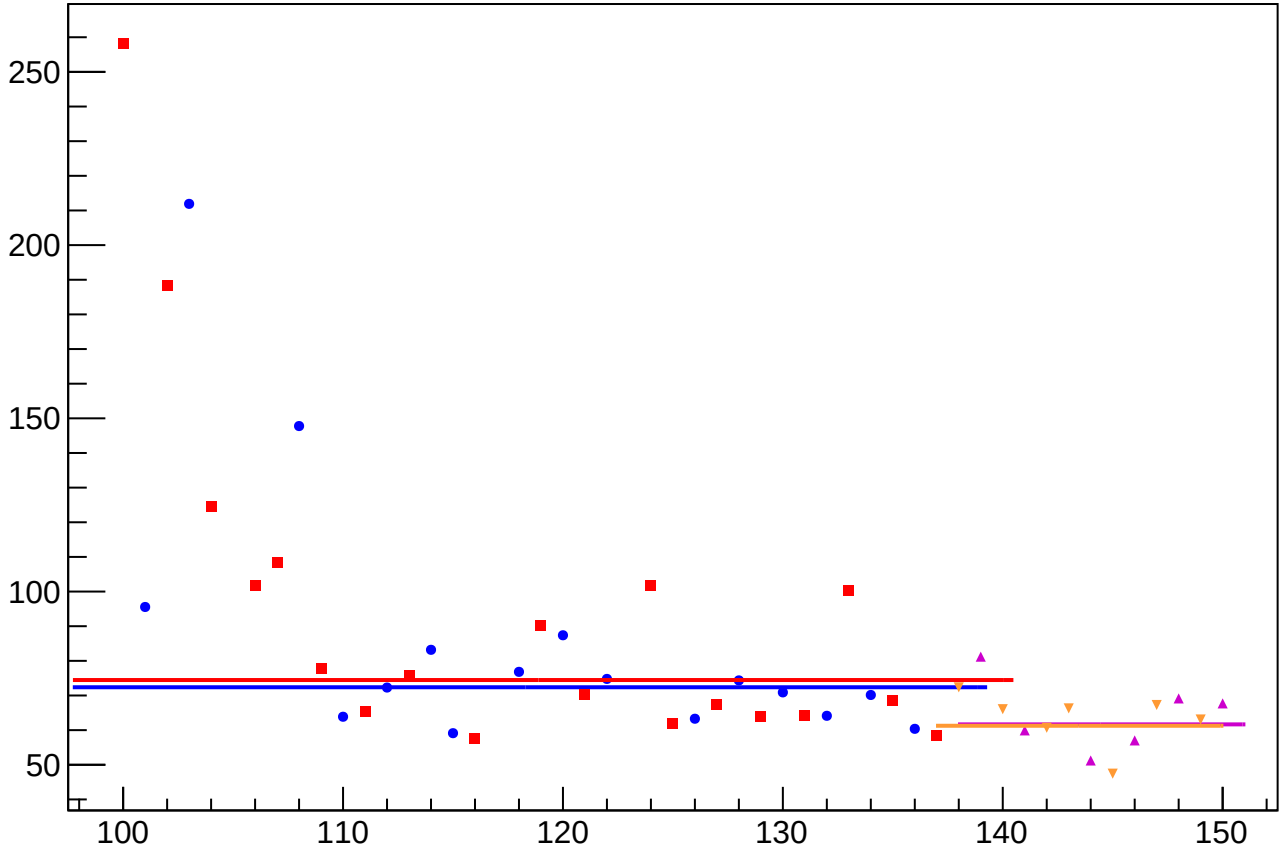
Right: 40.166+/-20.229 $\chi^2$/NDF: 41.7/34

In: -21.120+/-19.827 $\chi^2$/NDF:36.1/21

Out: 27.130+/-19.789 $\chi^2$/NDF:30.0/25

All: 3.051+/-14.006 $\chi^2$/NDF: 69.1/47

# dit_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938175.3/15

Left Out: 61.265+/-0.019 $\chi^2$/NDF:198927.0/6

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052296.6/18

Left In: 61.663+/-0.020 $\chi^2$/NDF:213798.2/5

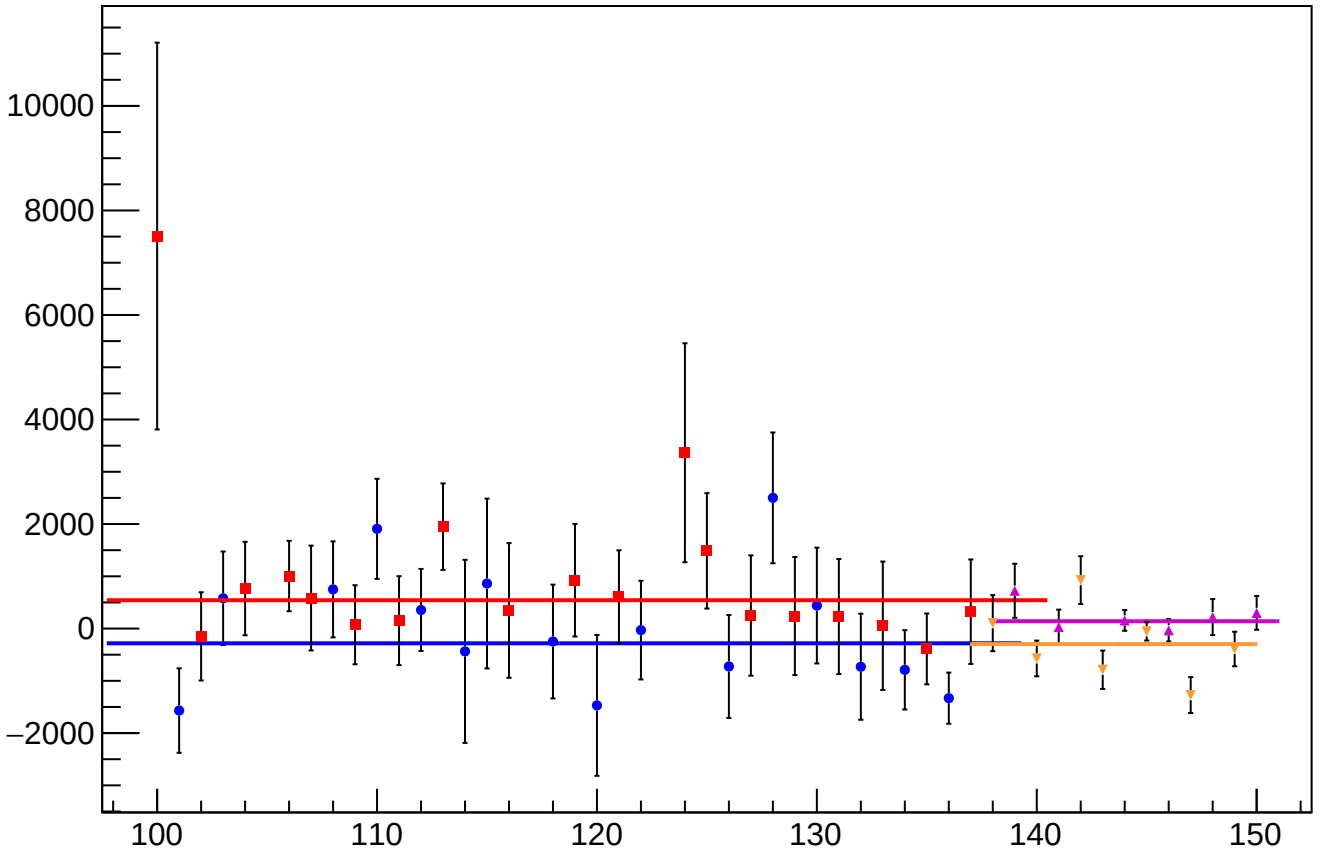
Left: 61.459+/-0.014 $\chi^2$/NDF: 412935.3/12

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995784.4/34

In: 66.916+/-0.014 $\chi^2$/NDF:1297948.9/21

Out: 67.449+/-0.014 $\chi^2$/NDF:1472762.1/25

All: 67.183+/-0.010 $\chi^2$/NDF: 2771435.6/47




Right In: -282.039+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -297.006+/-115.940 $\chi^2$/NDF:20.2/6

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 140.177+/-113.228 $\chi^2$/NDF:2.3/5

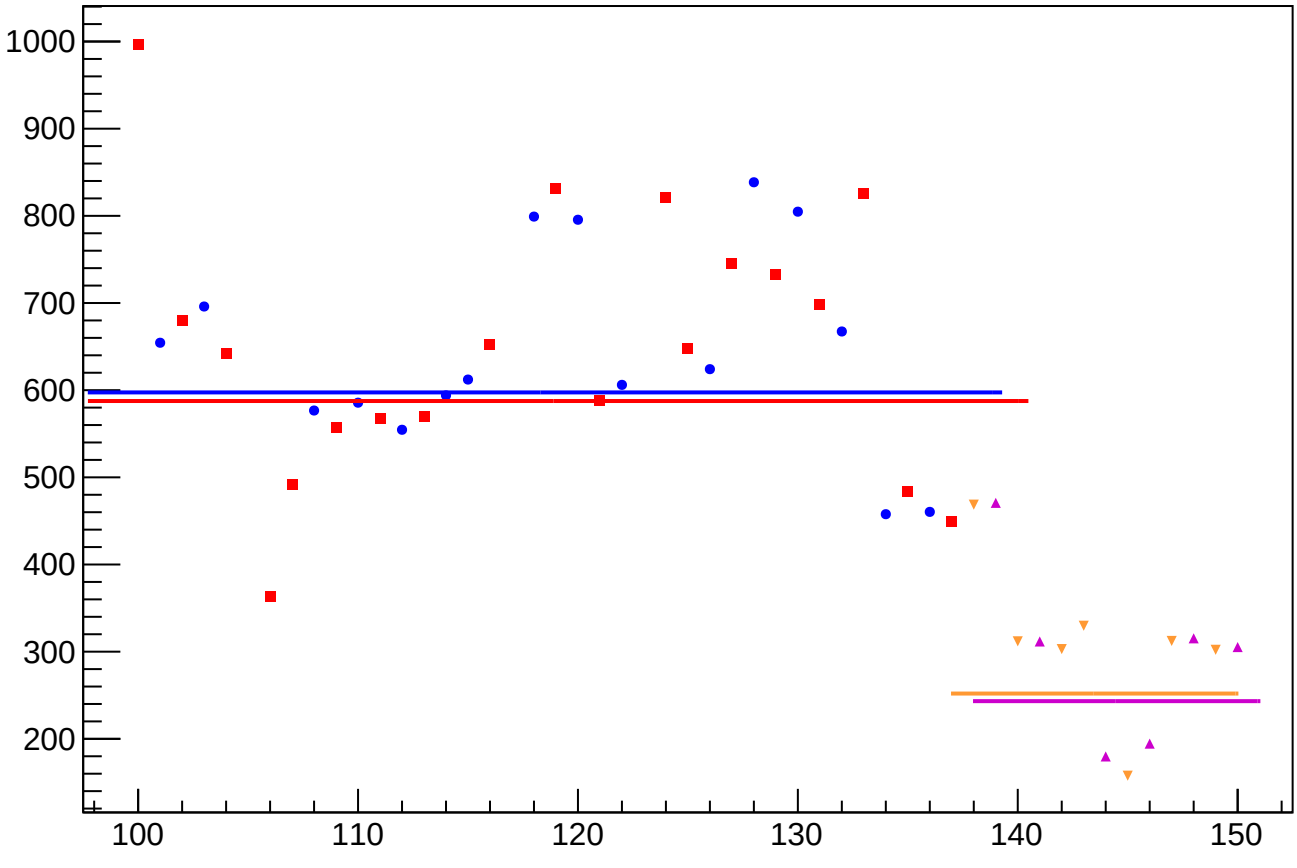
Left: -73.243+/-81.006 $\chi^2$/NDF: 29.9/12

Right: 142.636+/-158.581 $\chi^2$/NDF: 42.8/34

In: 56.524+/-101.393 $\chi^2$/NDF:27.9/21

Out: -115.801+/-102.660 $\chi^2$/NDF:44.8/25

All: -28.569+/-72.139 $\chi^2$/NDF: 74.1/47




Right In: 597.438+/-0.161 $\chi^2$/NDF: 533791.9/15

Left Out: 251.953+/-0.082 $\chi^2$/NDF:1188238.5/6

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689035.8/18

Left In: 243.240+/-0.080 $\chi^2$/NDF:941122.9/5

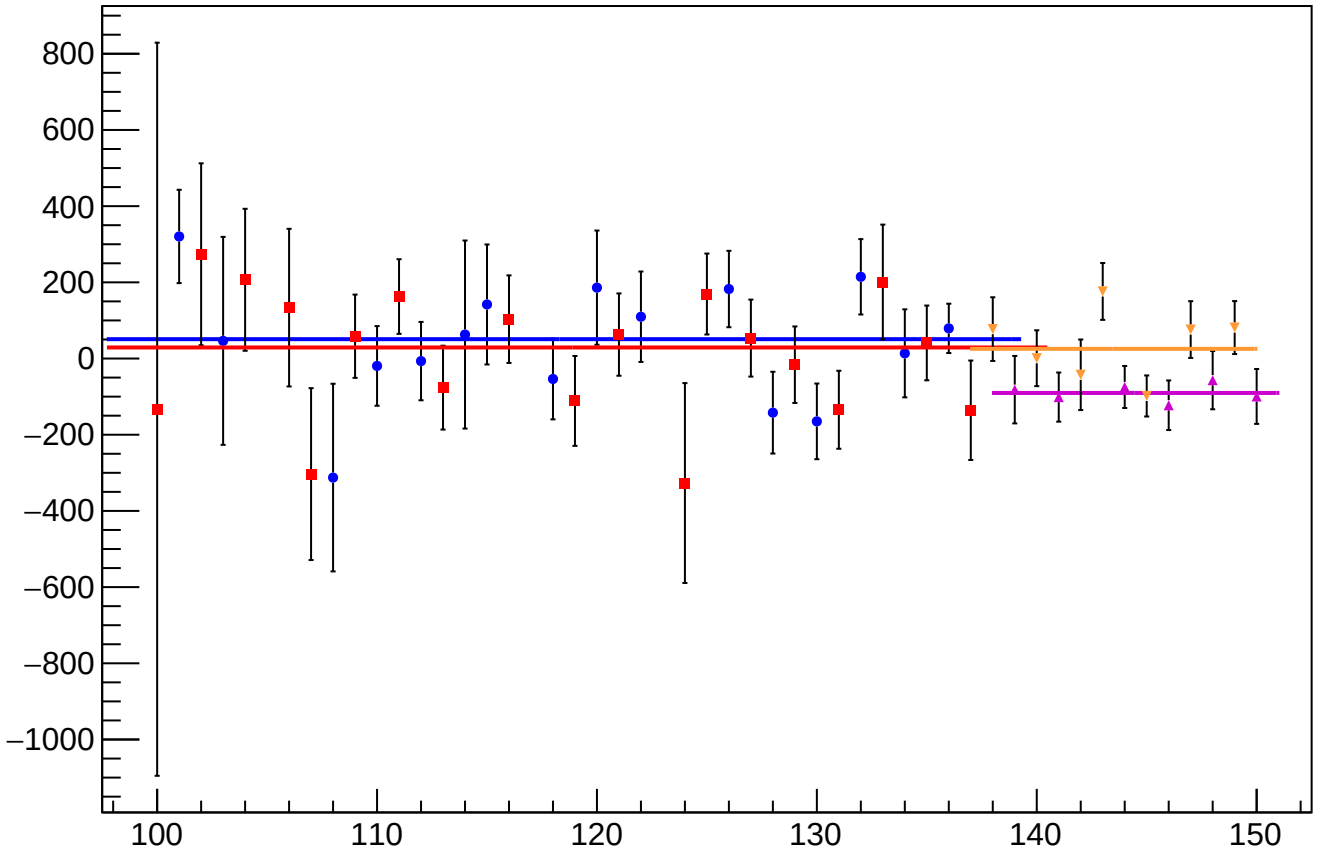
Left: 247.494+/-0.057 $\chi^2$/NDF: 2135142.7/12

Right: 592.350+/-0.112 $\chi^2$/NDF: 1224764.0/34

In: 313.417+/-0.072 $\chi^2$/NDF:5352485.5/21

Out: 324.435+/-0.073 $\chi^2$/NDF:5496619.9/25

All: 318.858+/-0.051 $\chi^2$/NDF: 10860766.9/47




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: 25.448+/-27.146 $\chi^2$/NDF:11.5/6

Right Out: 29.038+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -90.330+/-27.770 $\chi^2$/NDF:0.6/5

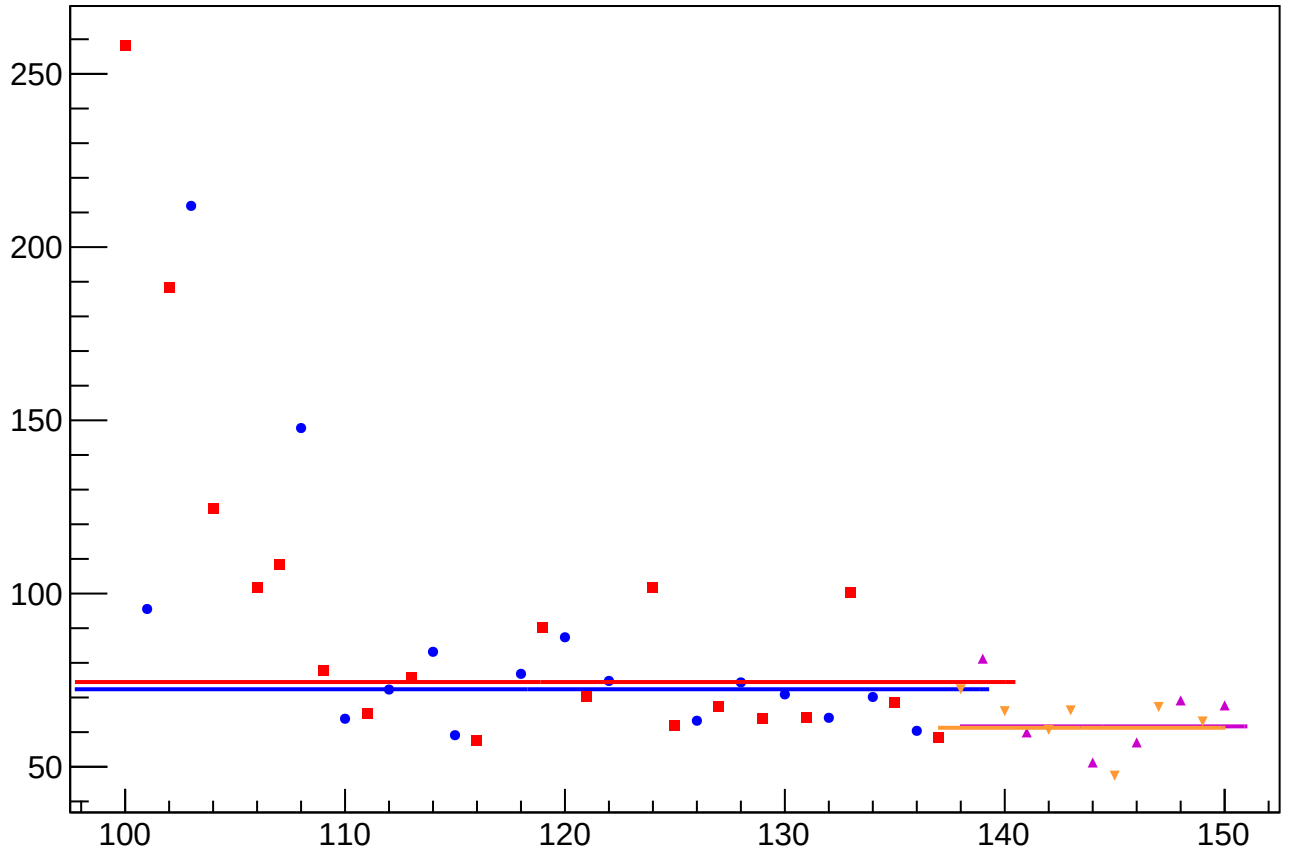
Left: -31.125+/-19.412 $\chi^2$/NDF: 21.0/12

Right: 40.165+/-20.229 $\chi^2$/NDF: 41.7/34

In: -21.120+/-19.827 $\chi^2$/NDF:36.1/21

Out: 27.130+/-19.789 $\chi^2$/NDF:30.0/25

All: 3.051+/-14.006 $\chi^2$/NDF: 69.1/47




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938180.0/15

Left Out: 61.265+/-0.019 $\chi^2$/NDF:198935.7/6

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052290.0/18

Left In: 61.663+/-0.020 $\chi^2$/NDF:213803.4/5

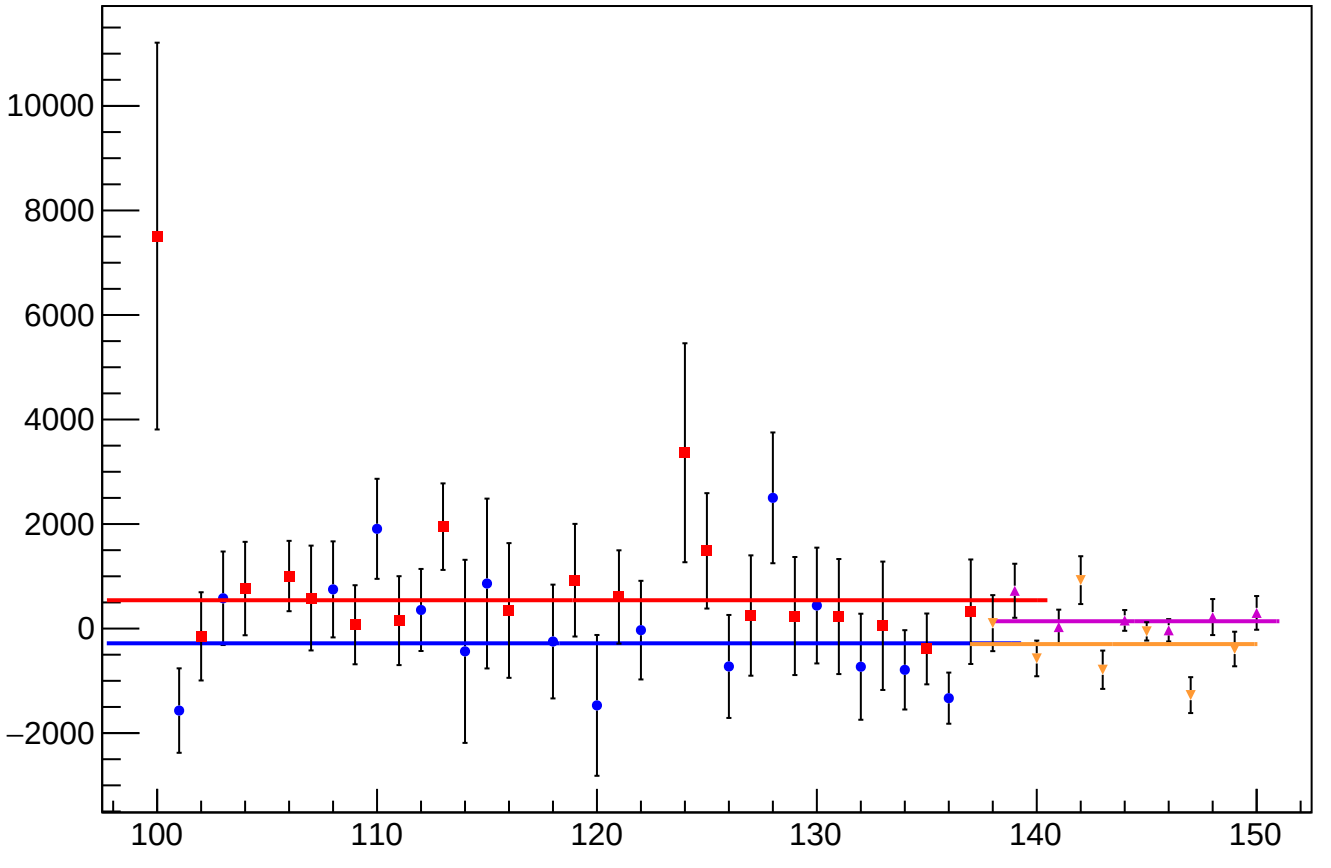
Left: 61.459+/-0.014 $\chi^2$/NDF: 412949.2/12

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995782.9/34

In: 66.916+/-0.014 $\chi^2$/NDF:1297954.6/21

Out: 67.449+/-0.014 $\chi^2$/NDF:1472758.3/25

All: 67.183+/-0.010 $\chi^2$/NDF: 2771437.7/47




Right In: -282.038+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -297.006+/-115.940 $\chi^2$/NDF:20.2/6

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 140.176+/-113.228 $\chi^2$/NDF:2.3/5

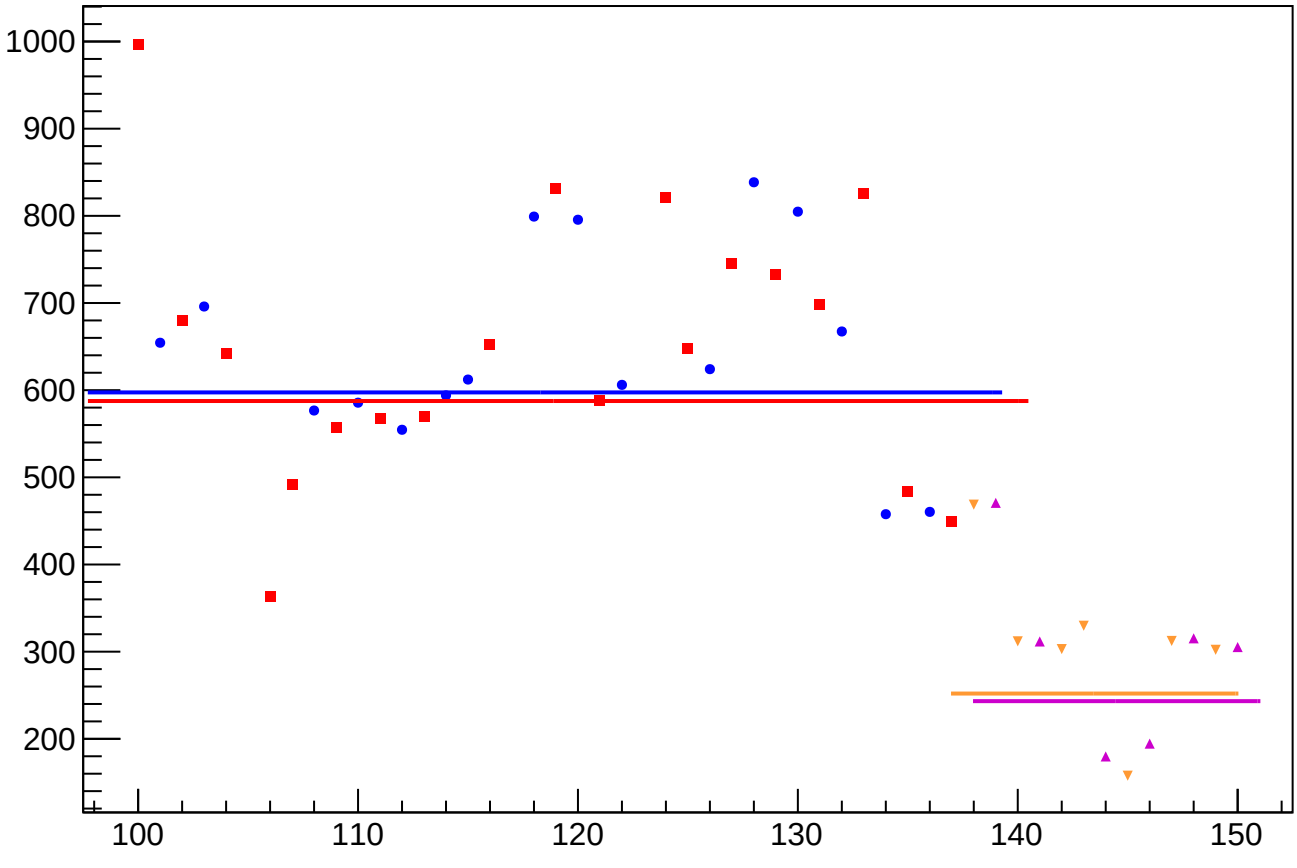
Left: -73.243+/-81.006 $\chi^2$/NDF: 29.9/12

Right: 142.637+/-158.581 $\chi^2$/NDF: 42.8/34

In: 56.524+/-101.393 $\chi^2$/NDF:27.9/21

Out: -115.802+/-102.659 $\chi^2$/NDF:44.8/25

All: -28.569+/-72.139 $\chi^2$/NDF: 74.1/47




Right In: 597.439+/-0.161 $\chi^2$/NDF: 533790.1/15

Left Out: 251.953+/-0.082 $\chi^2$/NDF:1188234.3/6

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689033.6/18

Left In: 243.240+/-0.080 $\chi^2$/NDF:941121.1/5

Left: 247.494+/-0.057 $\chi^2$/NDF: 2135136.8/12

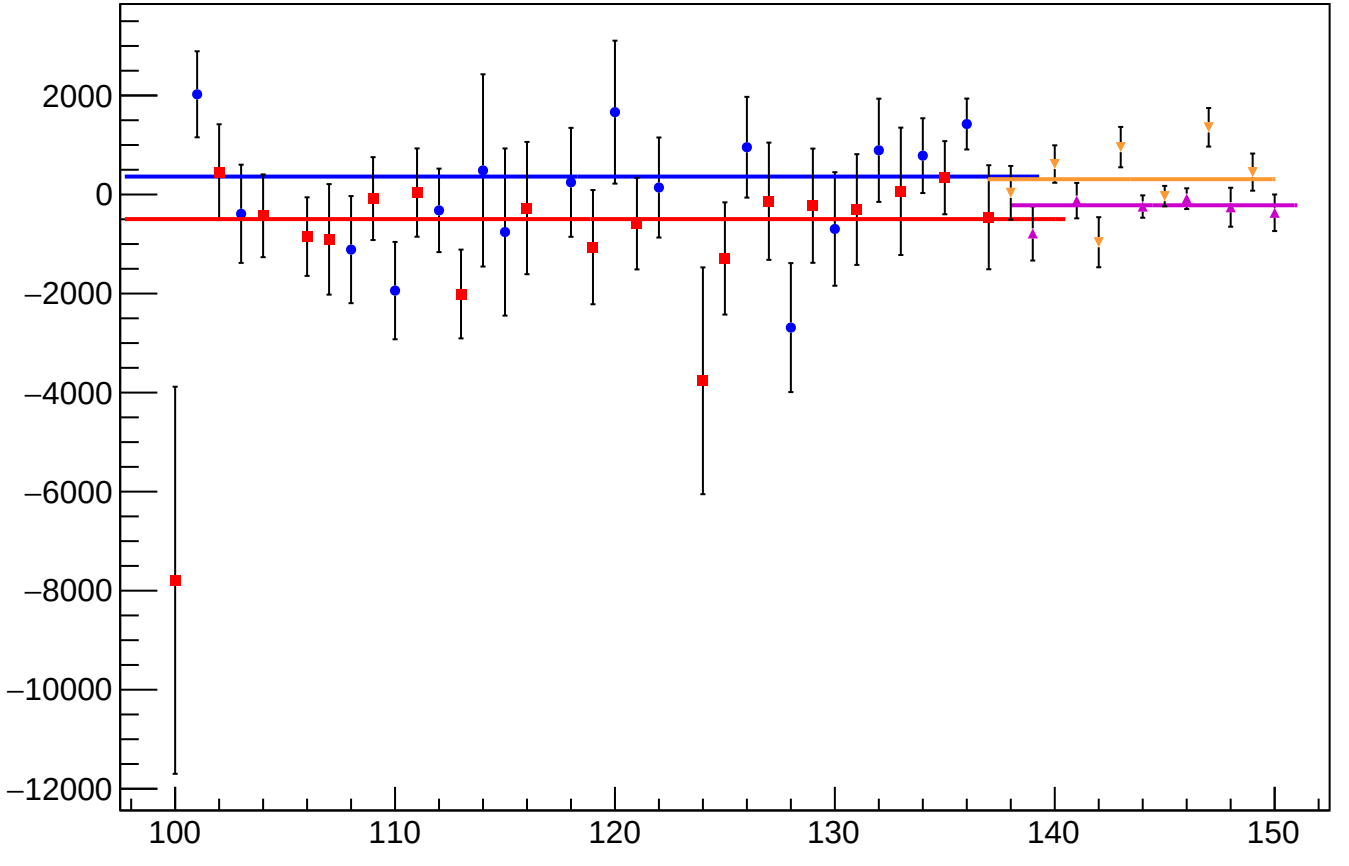
Right: 592.350+/-0.112 $\chi^2$/NDF: 1224760.1/34

In: 313.417+/-0.072 $\chi^2$/NDF:5352491.1/21

Out: 324.435+/-0.073 $\chi^2$/NDF:5496612.7/25

All: 318.857+/-0.051 $\chi^2$/NDF: 10860765.4/47

# asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 362.384+/-240.303 $\chi^2$/NDF: 25.1/15

Left Out: 309.248+/-131.795 $\chi^2$/NDF:19.9/6

Right Out: -496.639+/-236.029 $\chi^2$/NDF: 12.7/18

Left In: -217.204+/-121.846 $\chi^2$/NDF:1.7/5

Left: 25.404+/-89.469 $\chi^2$/NDF: 30.3/12

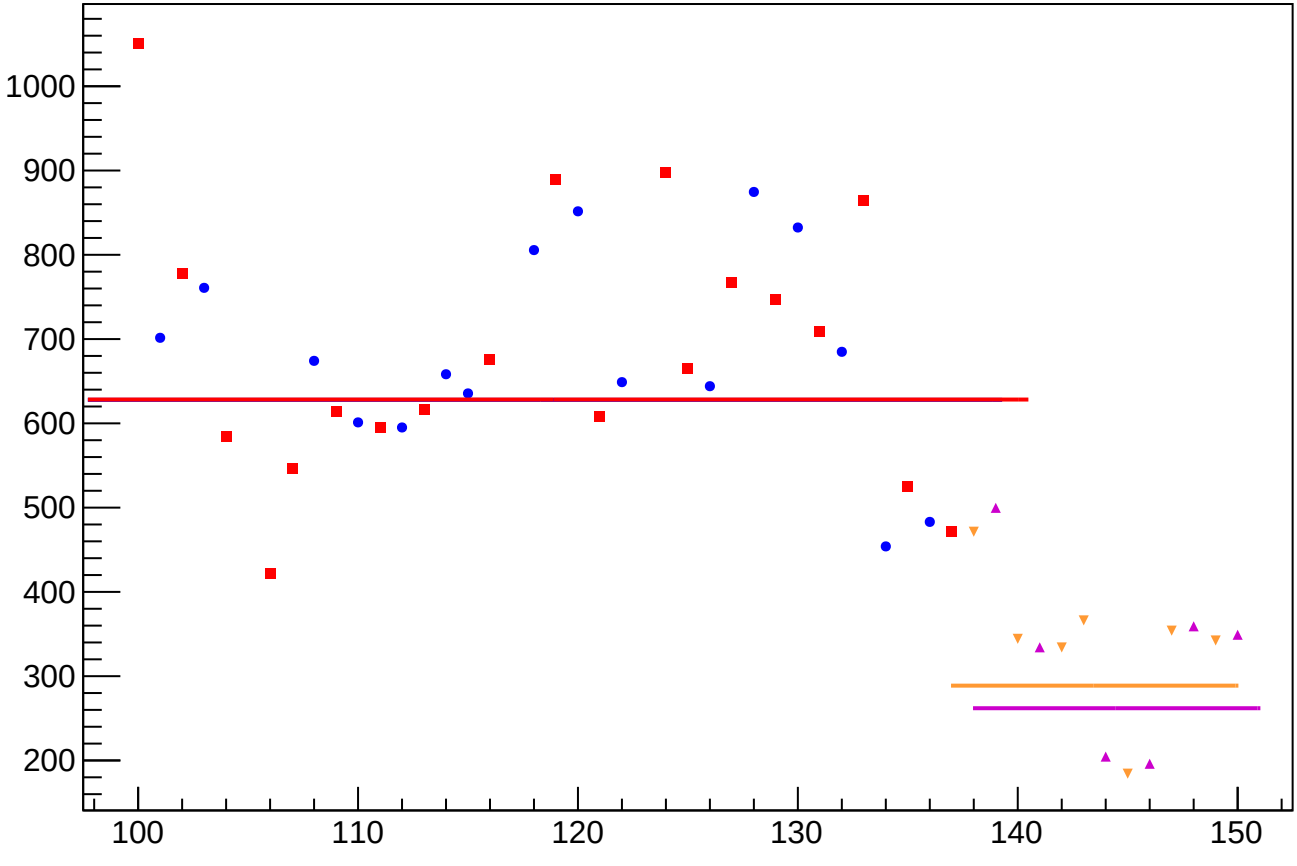
Right: -74.835+/-168.388 $\chi^2$/NDF: 44.3/34

In: -98.667+/-108.674 $\chi^2$/NDF:31.4/21

Out: 117.701+/-115.071 $\chi^2$/NDF:41.5/25

All: 3.336+/-79.009 $\chi^2$/NDF: 74.8/47

# asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 627.896+/-0.170 $\chi^2$/NDF: 566795.7/15

Left Out: 288.771+/-0.093 $\chi^2$/NDF:968710.5/6

Right Out: 628.250+/-0.167 $\chi^2$/NDF: 570979.3/18

Left In: 261.973+/-0.086 $\chi^2$/NDF:1020186.3/5

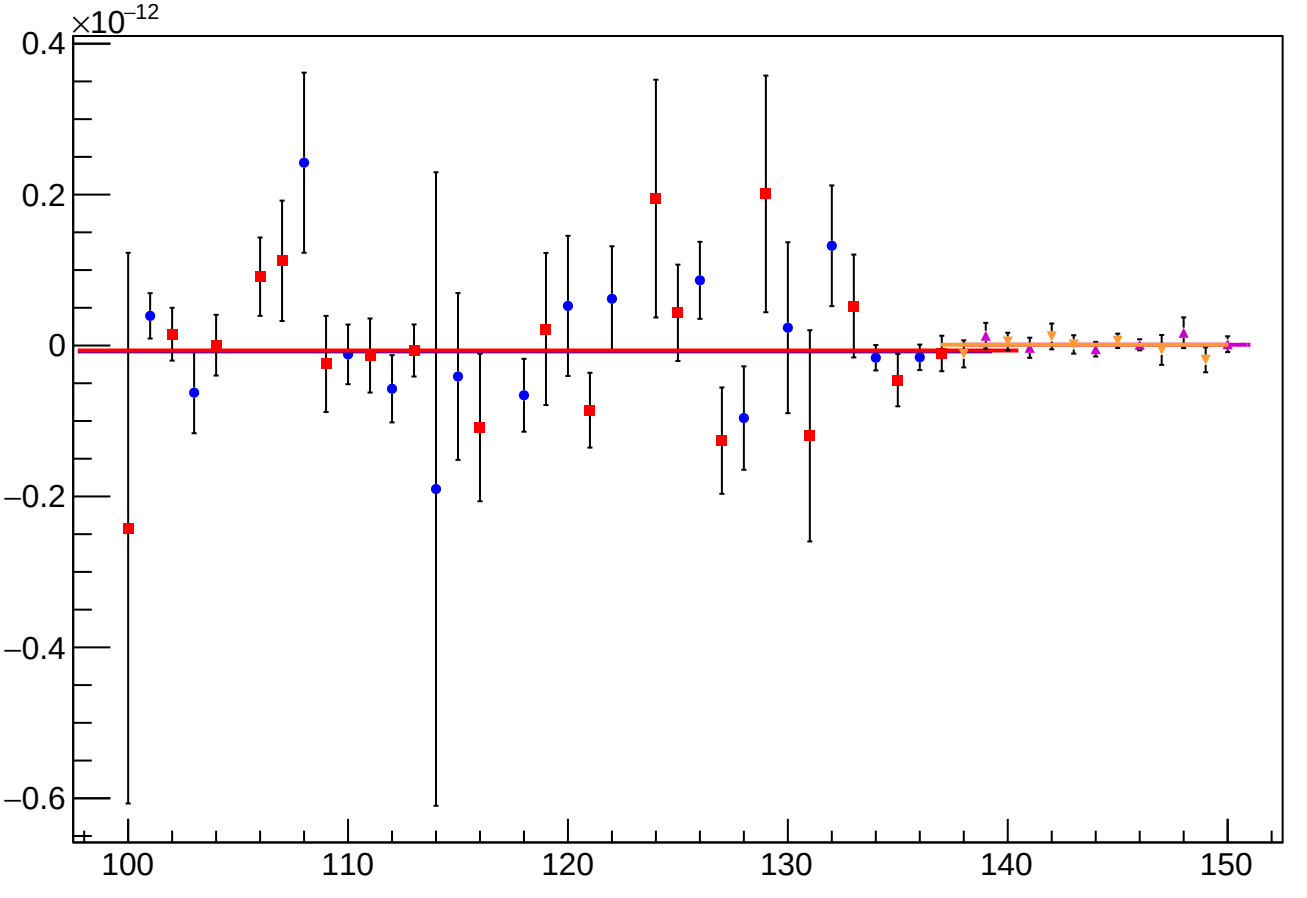
Left: 274.322+/-0.063 $\chi^2$/NDF: 2033478.9/12

Right: 628.076+/-0.119 $\chi^2$/NDF: 1137777.3/34

In: 336.811+/-0.077 $\chi^2$/NDF:5276082.8/21

Out: 369.460+/-0.081 $\chi^2$/NDF:4693677.4/25

All: 352.203+/-0.056 $\chi^2$/NDF: 10054861.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.6/5

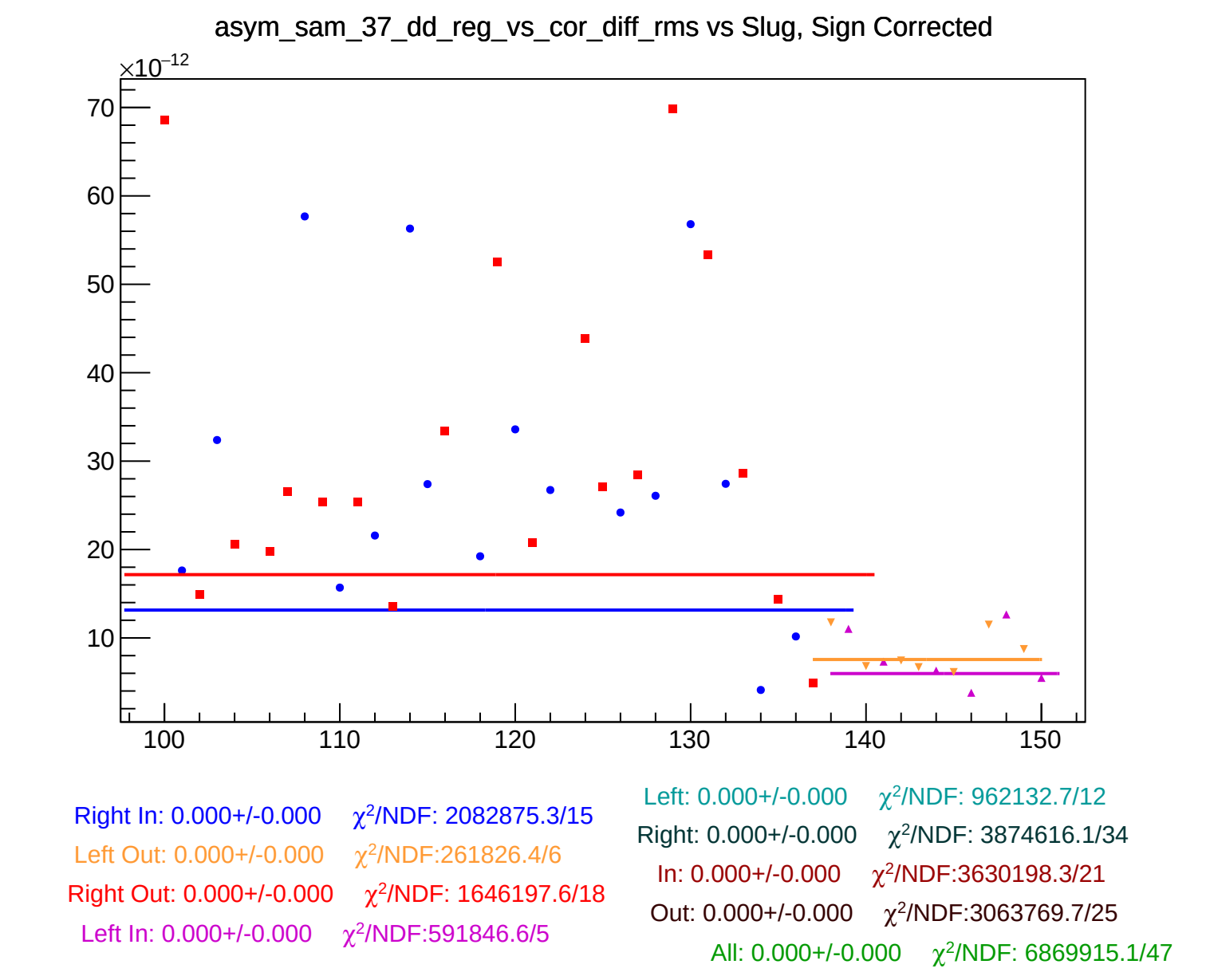
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.4/12

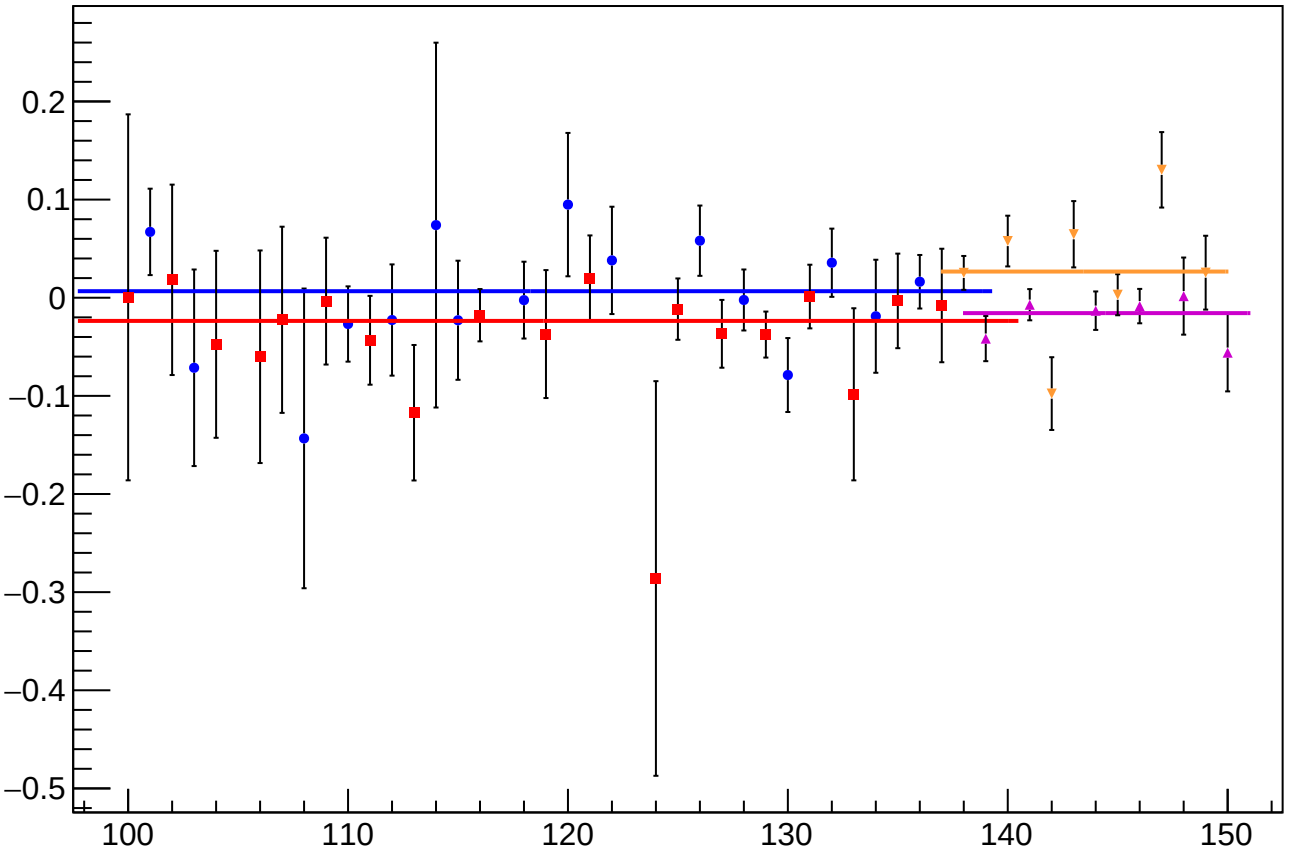
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 46.5/47


asym_sam_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2082875.3/15
Left Out: 0.000+/-0.000 χ²/NDF:261826.4/6
Right Out: 0.000+/-0.000 χ²/NDF: 1646197.6/18
Left In: 0.000+/-0.000 χ²/NDF:591846.6/5
Left: 0.000+/-0.000 χ²/NDF: 962132.7/12
Right: 0.000+/-0.000 χ²/NDF: 3874616.1/34
In: 0.000+/-0.000 χ²/NDF:3630198.3/21
Out: 0.000+/-0.000 χ²/NDF:3063769.7/25
All: 0.000+/-0.000 χ²/NDF: 6869915.1/47




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.027+/-0.010 $\chi^2$/NDF:22.5/6

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.016+/-0.009 $\chi^2$/NDF:3.0/5

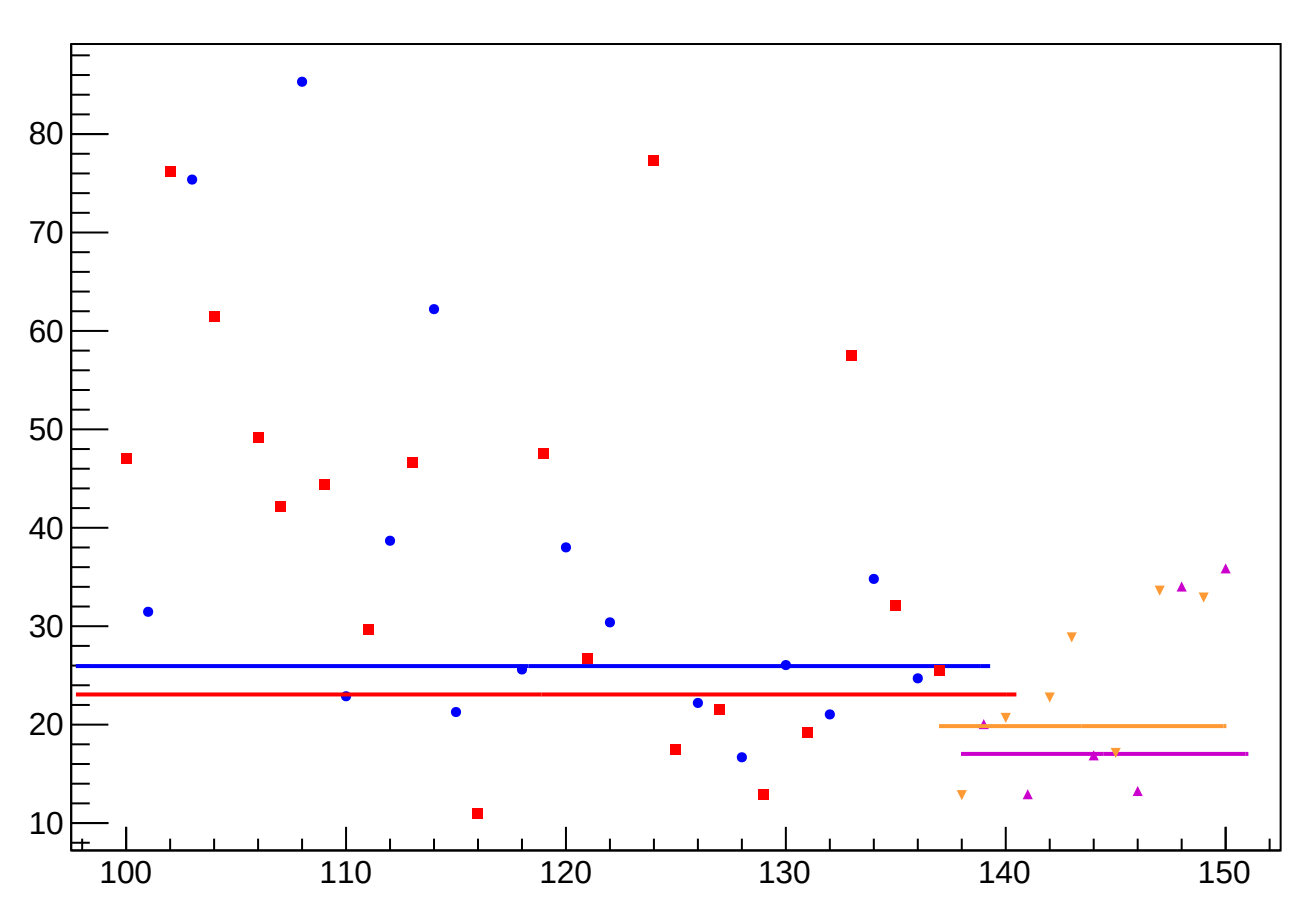
Left: 0.003+/-0.007 $\chi^2$/NDF: 35.7/12

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.007+/-0.007 $\chi^2$/NDF:20.5/21

Out: 0.003+/-0.007 $\chi^2$/NDF:42.1/25

All: -0.002+/-0.005 $\chi^2$/NDF: 63.6/47




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 19.850+/-0.007 $\chi^2$/NDF:1018503.9/6

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 17.027+/-0.006 $\chi^2$/NDF:1090445.8/5

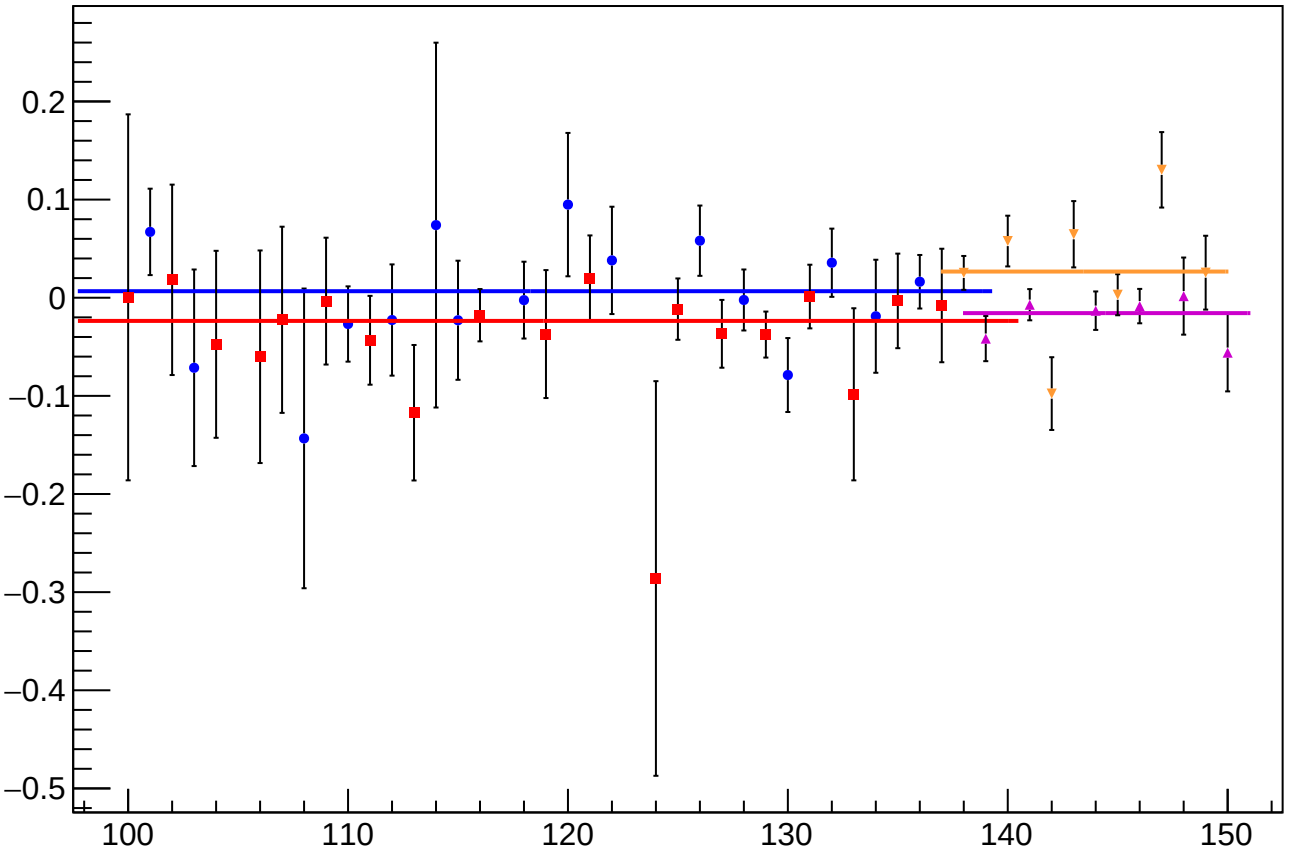
Left: 18.263+/-0.005 $\chi^2$/NDF: 2199681.6/12

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 20.457+/-0.005 $\chi^2$/NDF:3267547.3/21

Out: 21.369+/-0.005 $\chi^2$/NDF:4478283.9/25

All: 20.891+/-0.004 $\chi^2$/NDF: 7762527.6/47




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.027+/-0.010 $\chi^2$/NDF:22.5/6

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.016+/-0.009 $\chi^2$/NDF:3.0/5

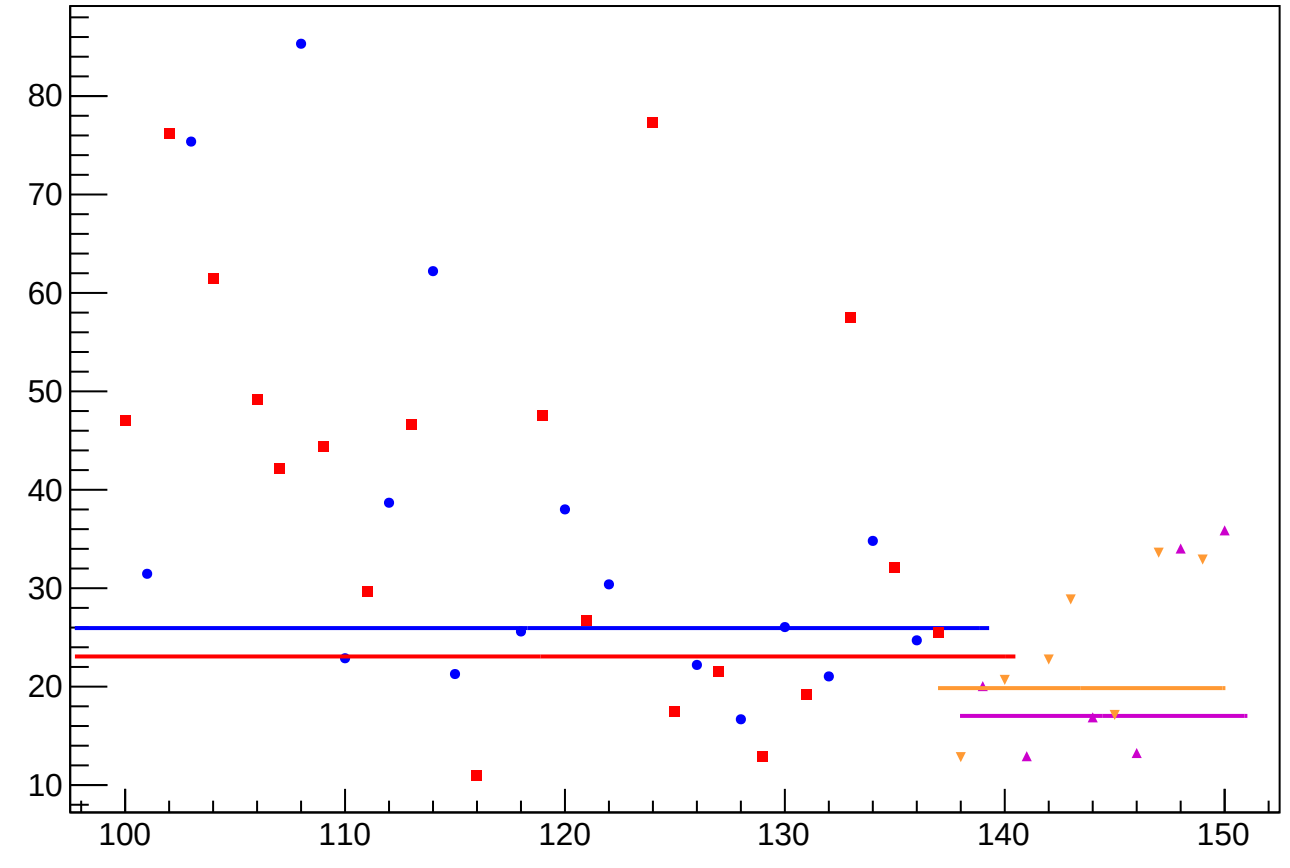
Left: 0.003+/-0.007 $\chi^2$/NDF: 35.7/12

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.007+/-0.007 $\chi^2$/NDF:20.5/21

Out: 0.003+/-0.007 $\chi^2$/NDF:42.1/25

All: -0.002+/-0.005 $\chi^2$/NDF: 63.6/47




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 19.850+/-0.007 $\chi^2$/NDF:1018503.9/6

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 17.027+/-0.006 $\chi^2$/NDF:1090445.8/5

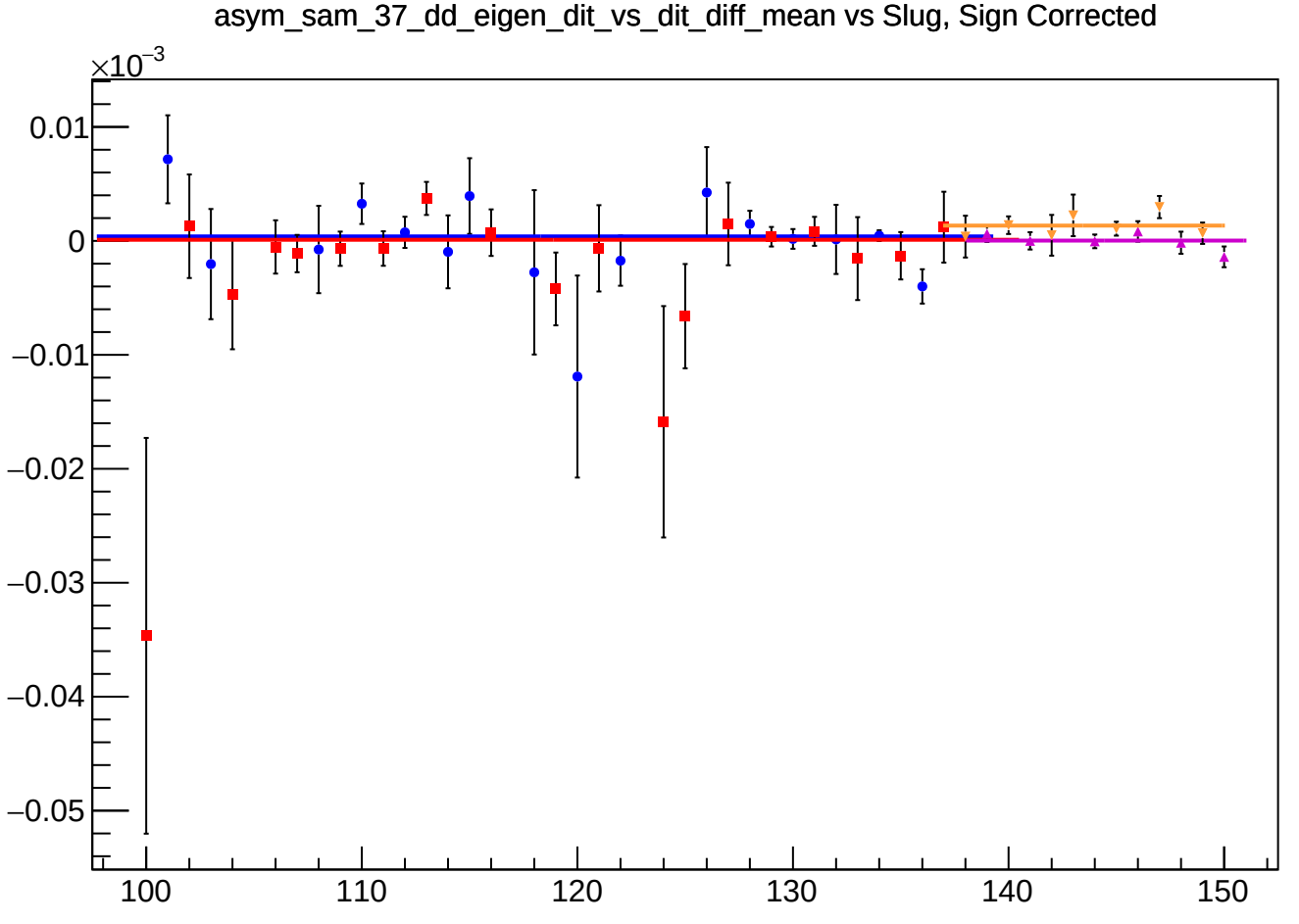
Left: 18.263+/-0.005 $\chi^2$/NDF: 2199681.6/12

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 20.457+/-0.005 $\chi^2$/NDF:3267547.3/21

Out: 21.369+/-0.005 $\chi^2$/NDF:4478283.9/25

All: 20.891+/-0.004 $\chi^2$/NDF: 7762527.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.0/5

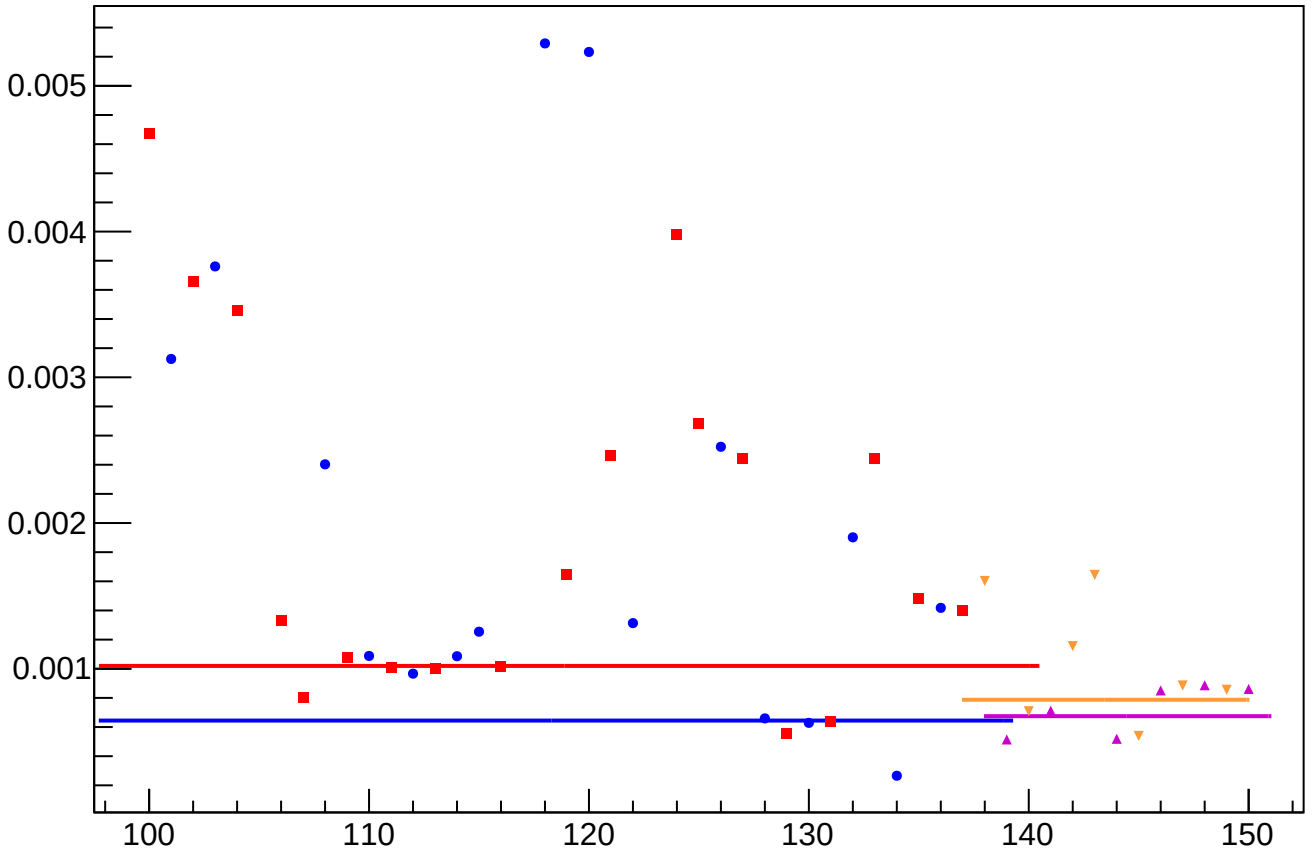
Left: 0.000+/-0.000 $\chi^2$/NDF: 15.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 41.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 57.9/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6575652.3/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1301834.6/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3662501.2/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:494129.1/5

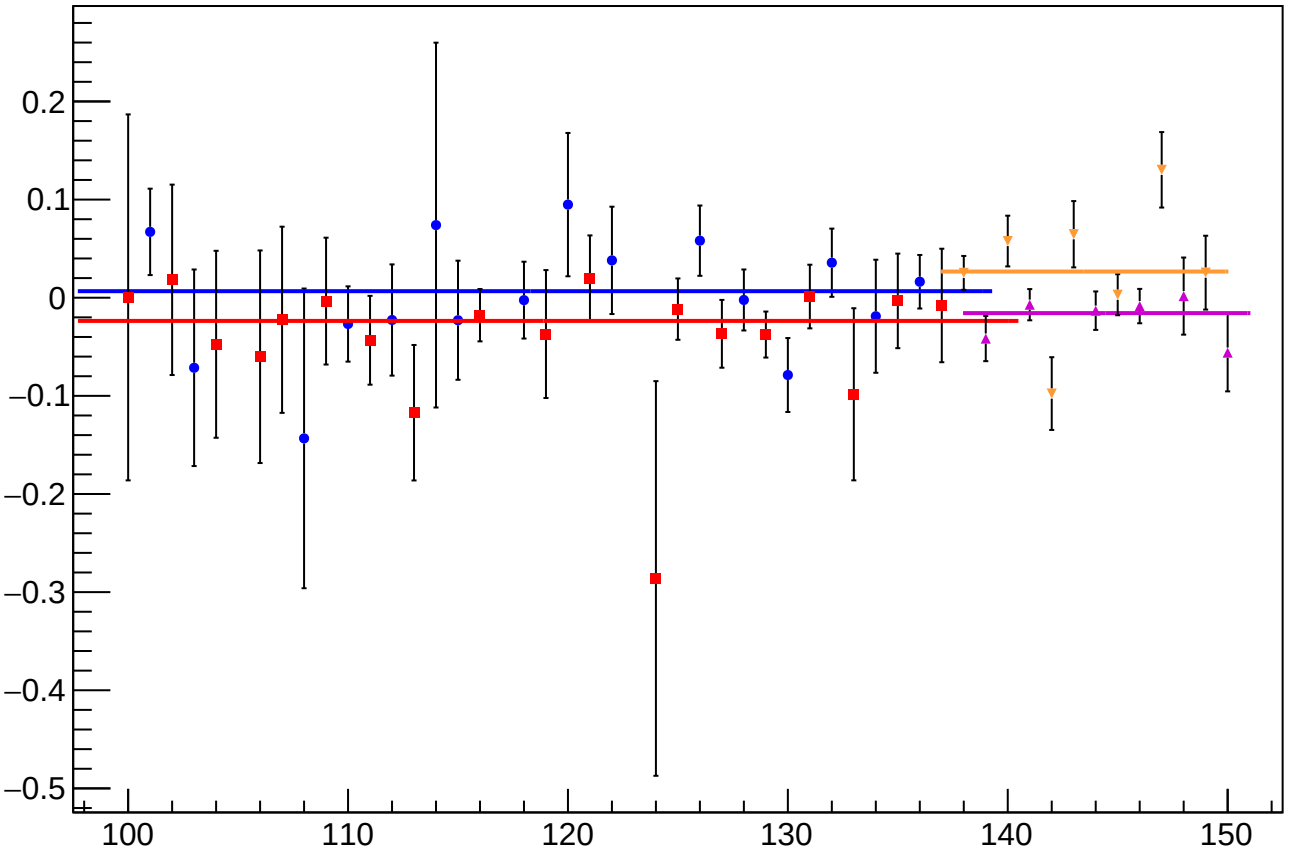
Left: 0.001+/-0.000 $\chi^2$/NDF: 1904034.7/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 11121544.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:7078137.6/21

Out: 0.001+/-0.000 $\chi^2$/NDF:5284545.4/25

All: 0.001+/-0.000 $\chi^2$/NDF: 13076763.1/47




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.027+/-0.010 $\chi^2$/NDF:22.5/6

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.016+/-0.009 $\chi^2$/NDF:3.0/5

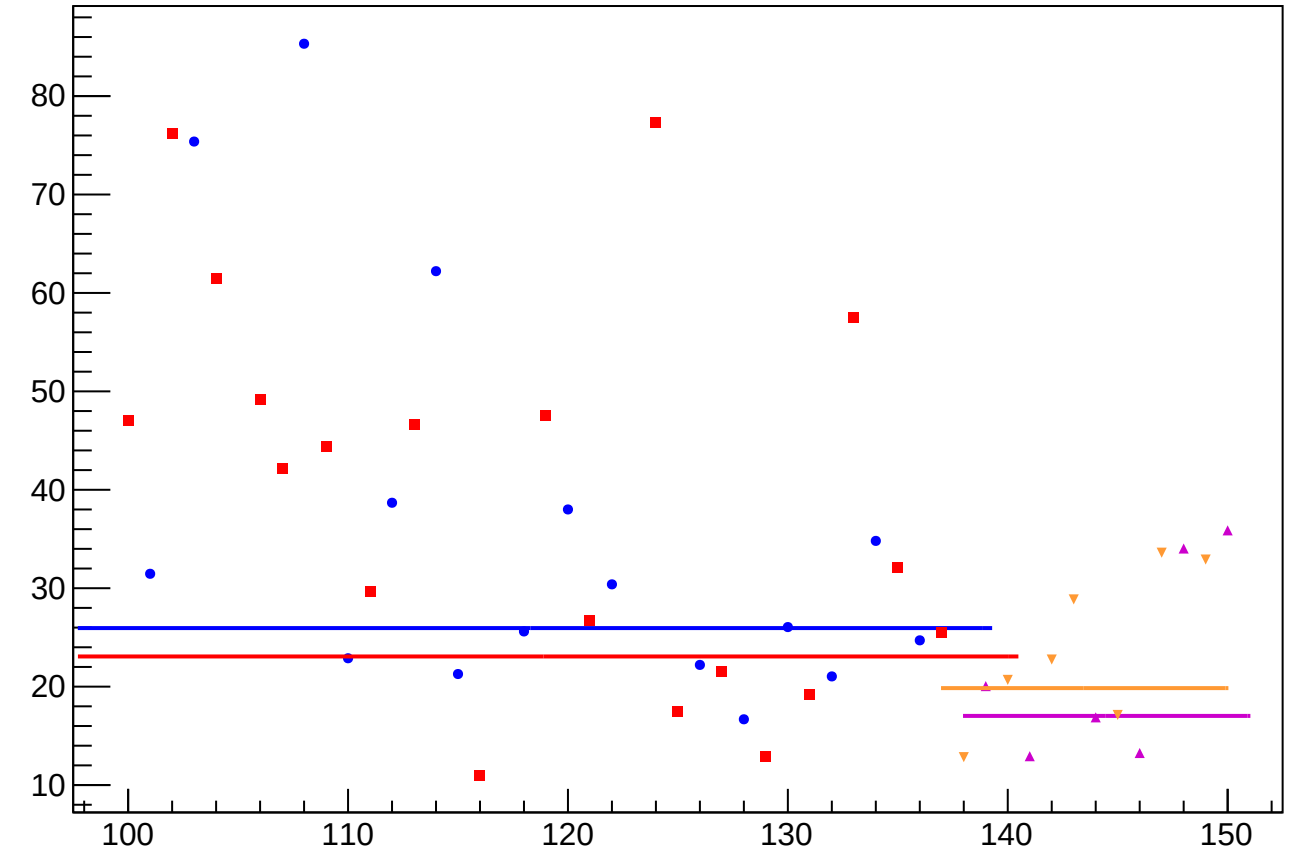
Left: 0.003+/-0.007 $\chi^2$/NDF: 35.7/12

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.007+/-0.007 $\chi^2$/NDF:20.5/21

Out: 0.003+/-0.007 $\chi^2$/NDF:42.1/25

All: -0.002+/-0.005 $\chi^2$/NDF: 63.6/47




Right In: 25.950+/-0.008 $\chi^2$/NDF: 1381591.4/15

Left Out: 19.850+/-0.007 $\chi^2$/NDF:1018502.5/6

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 17.027+/-0.006 $\chi^2$/NDF:1090444.1/5

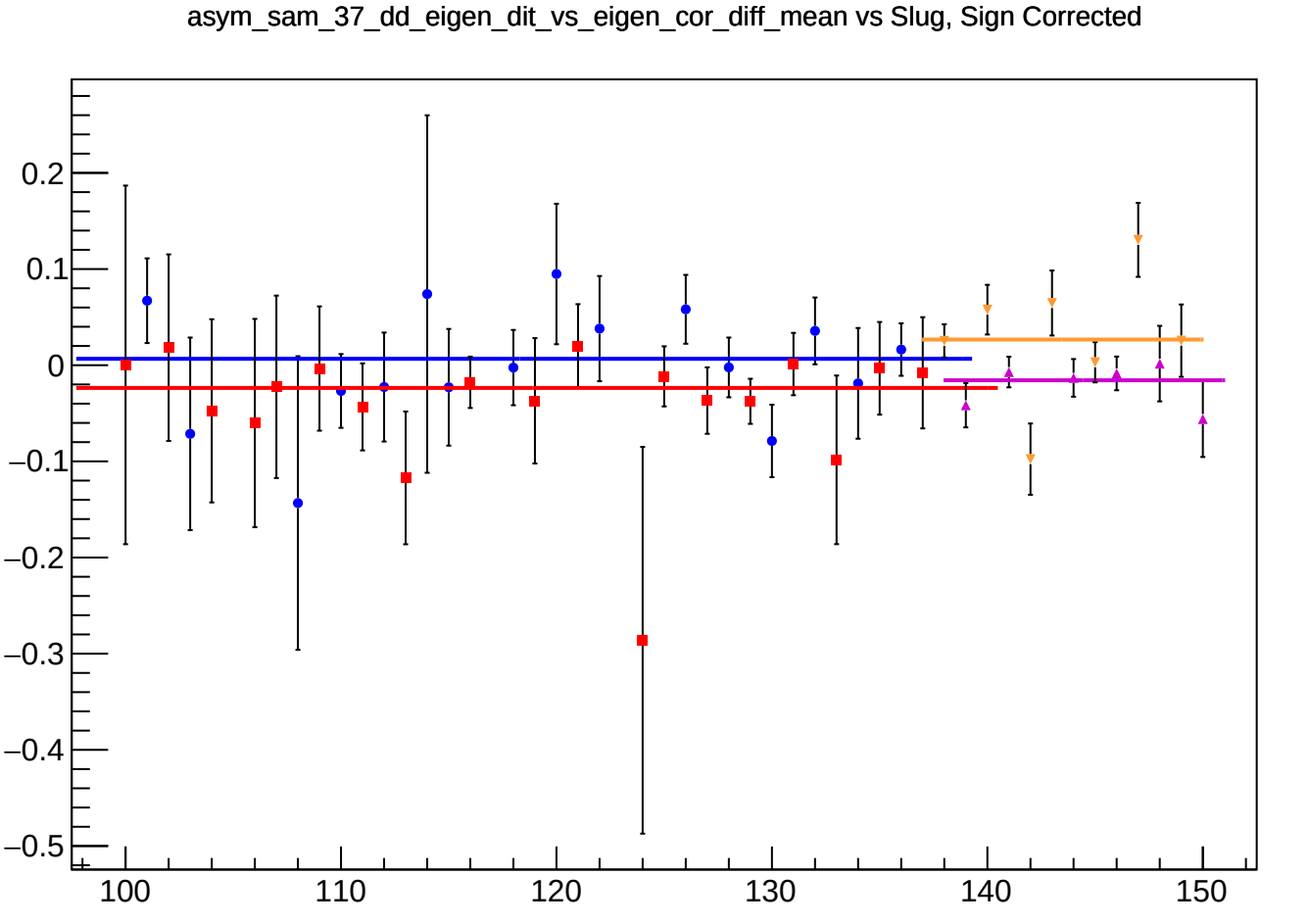
Left: 18.264+/-0.005 $\chi^2$/NDF: 2199701.0/12

Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 20.457+/-0.005 $\chi^2$/NDF:3267544.6/21

Out: 21.369+/-0.005 $\chi^2$/NDF:4478115.9/25

All: 20.892+/-0.004 $\chi^2$/NDF: 7762368.9/47




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.027+/-0.010 $\chi^2$/NDF:22.5/6

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.016+/-0.009 $\chi^2$/NDF:3.0/5

Left: 0.003+/-0.007 $\chi^2$/NDF: 35.7/12

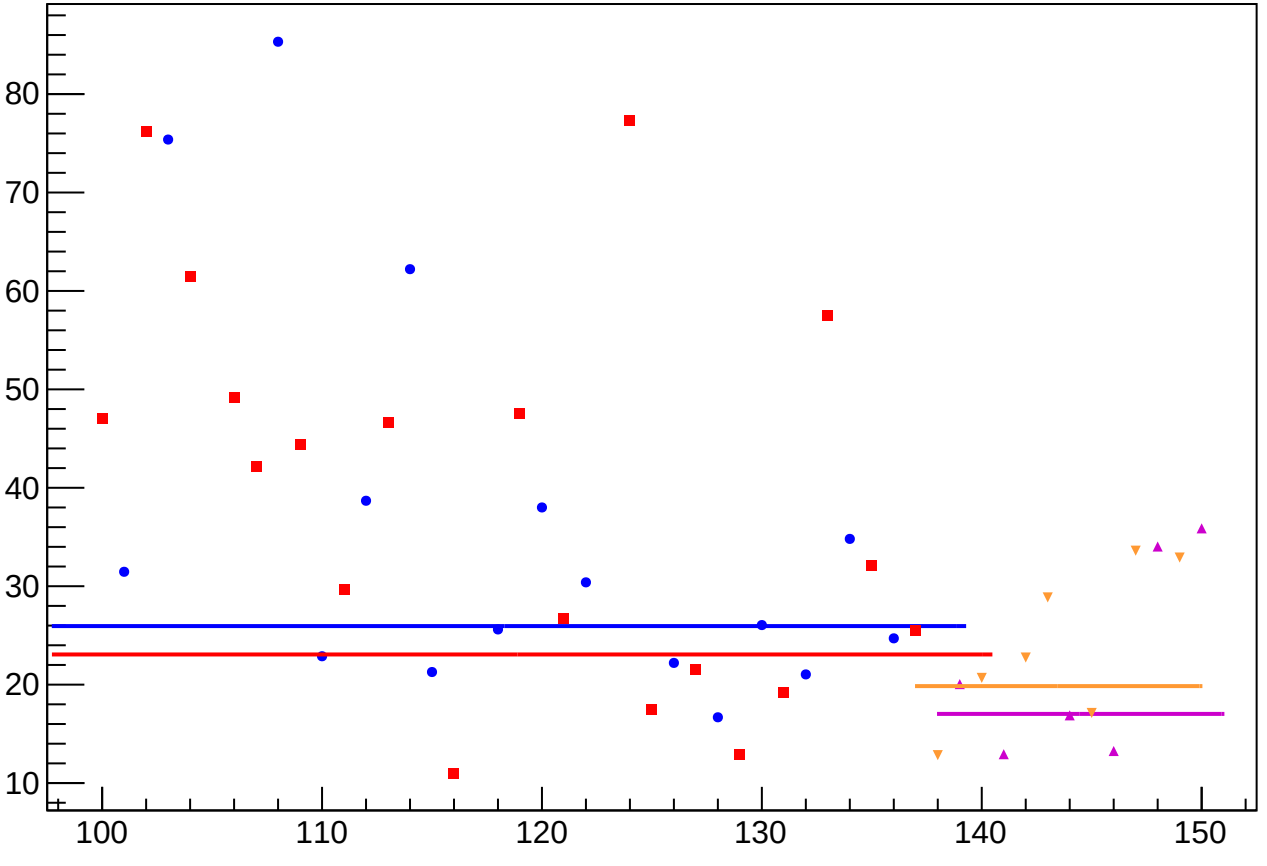
Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.007+/-0.007 $\chi^2$/NDF:20.5/21

Out: 0.003+/-0.007 $\chi^2$/NDF:42.1/25

All: -0.002+/-0.005 $\chi^2$/NDF: 63.6/47

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.950+/-0.008 $\chi^2$/NDF: 1381591.4/15

Left Out: 19.850+/-0.007 $\chi^2$/NDF:1018502.5/6

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 17.027+/-0.006 $\chi^2$/NDF:1090444.1/5

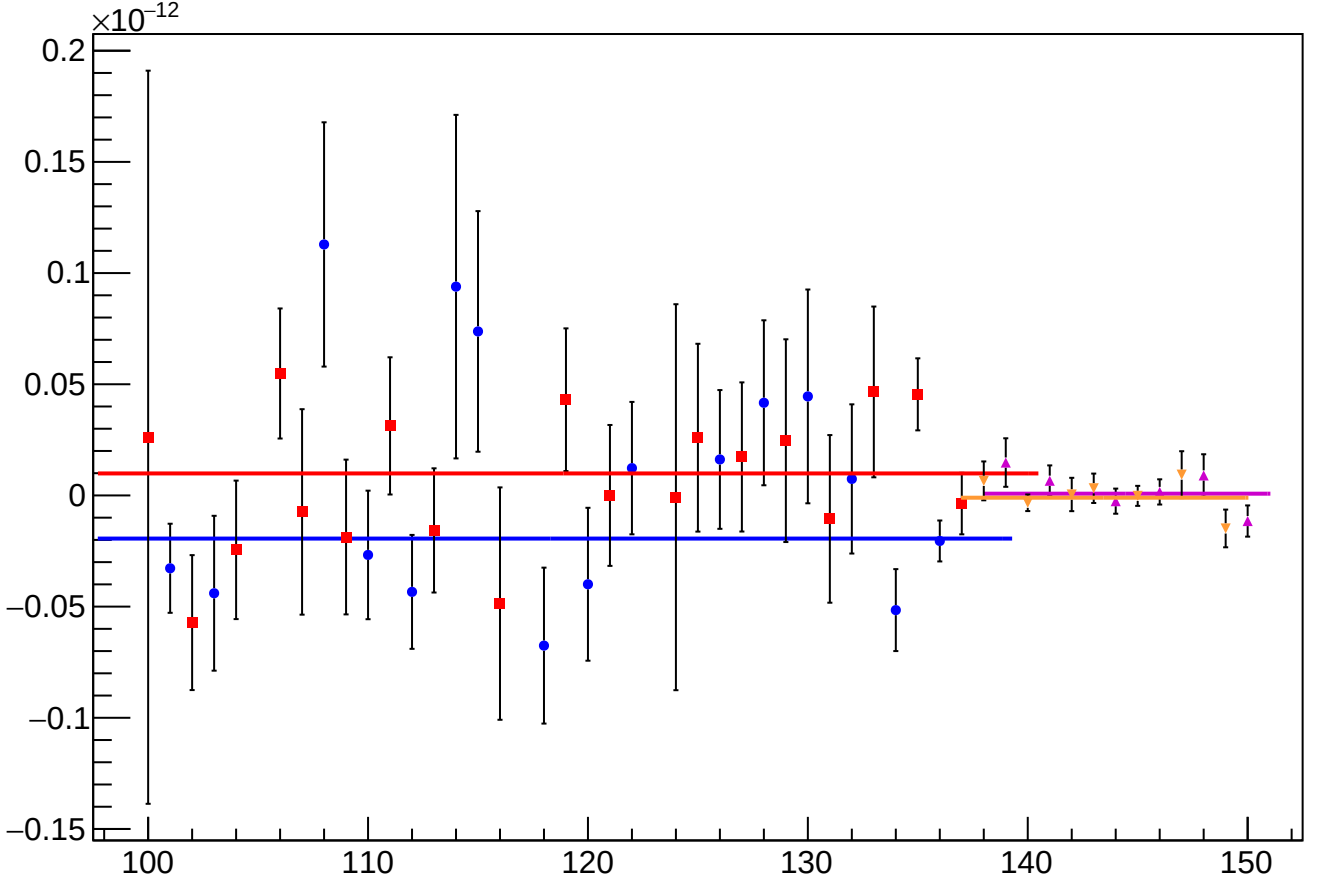
Left: 18.264+/-0.005 $\chi^2$/NDF: 2199701.0/12

Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 20.457+/-0.005 $\chi^2$/NDF:3267544.6/21

Out: 21.369+/-0.005 $\chi^2$/NDF:4478115.9/25

All: 20.892+/-0.004 $\chi^2$/NDF: 7762368.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.5/5

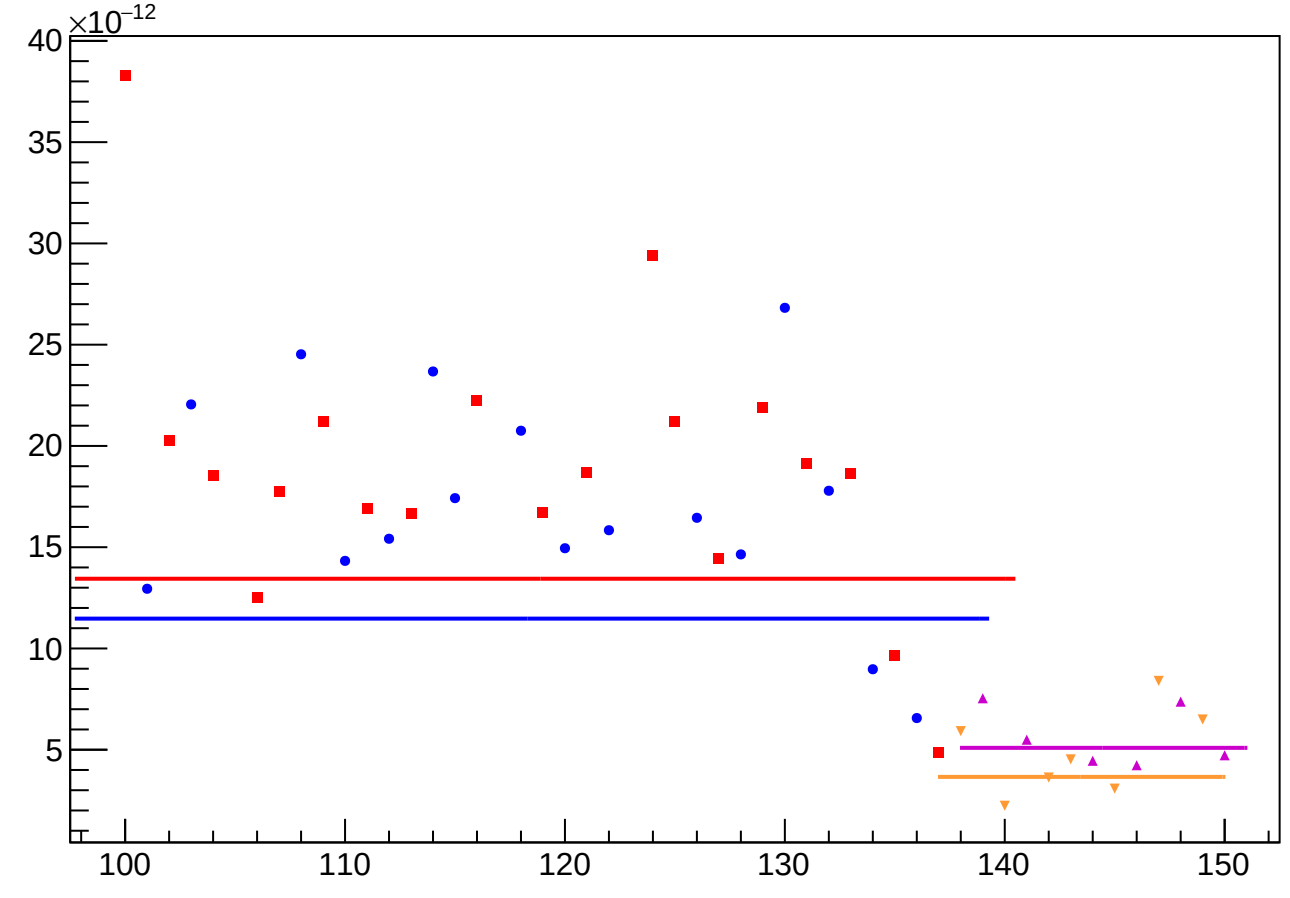
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 56.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:41.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 70.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1598593.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1121262.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1672848.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:299041.9/5

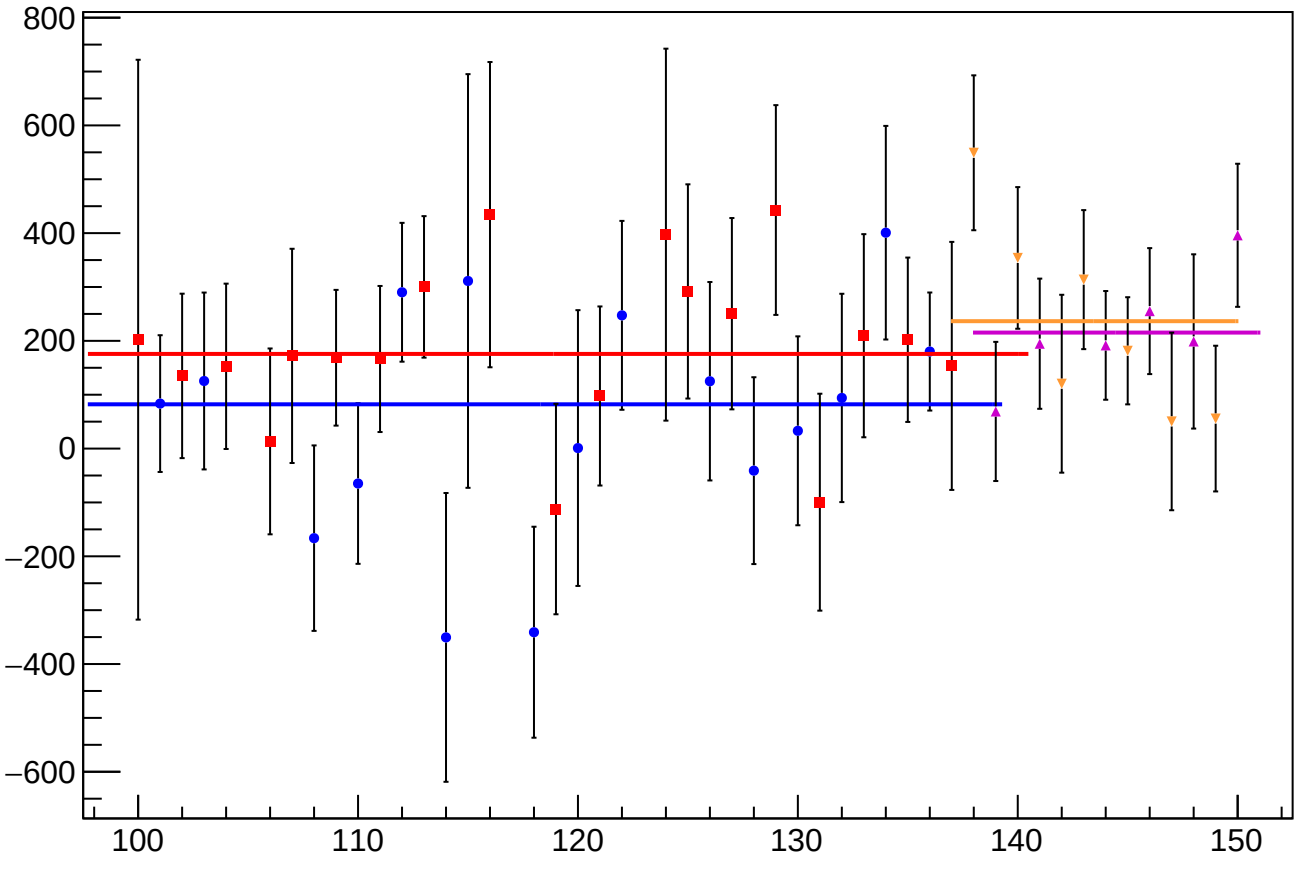
Left: 0.000+/-0.000 $\chi^2$/NDF: 1732559.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3365640.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3727474.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6548405.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 10749637.8/47




Right In: 82.196+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 236.524+/-50.287 $\chi^2$/NDF:9.7/6

Right Out: 175.732+/-40.673 $\chi^2$/NDF: 9.9/18

Left In: 215.357+/-50.341 $\chi^2$/NDF:3.3/5

Left: 225.952+/-35.577 $\chi^2$/NDF: 13.2/12

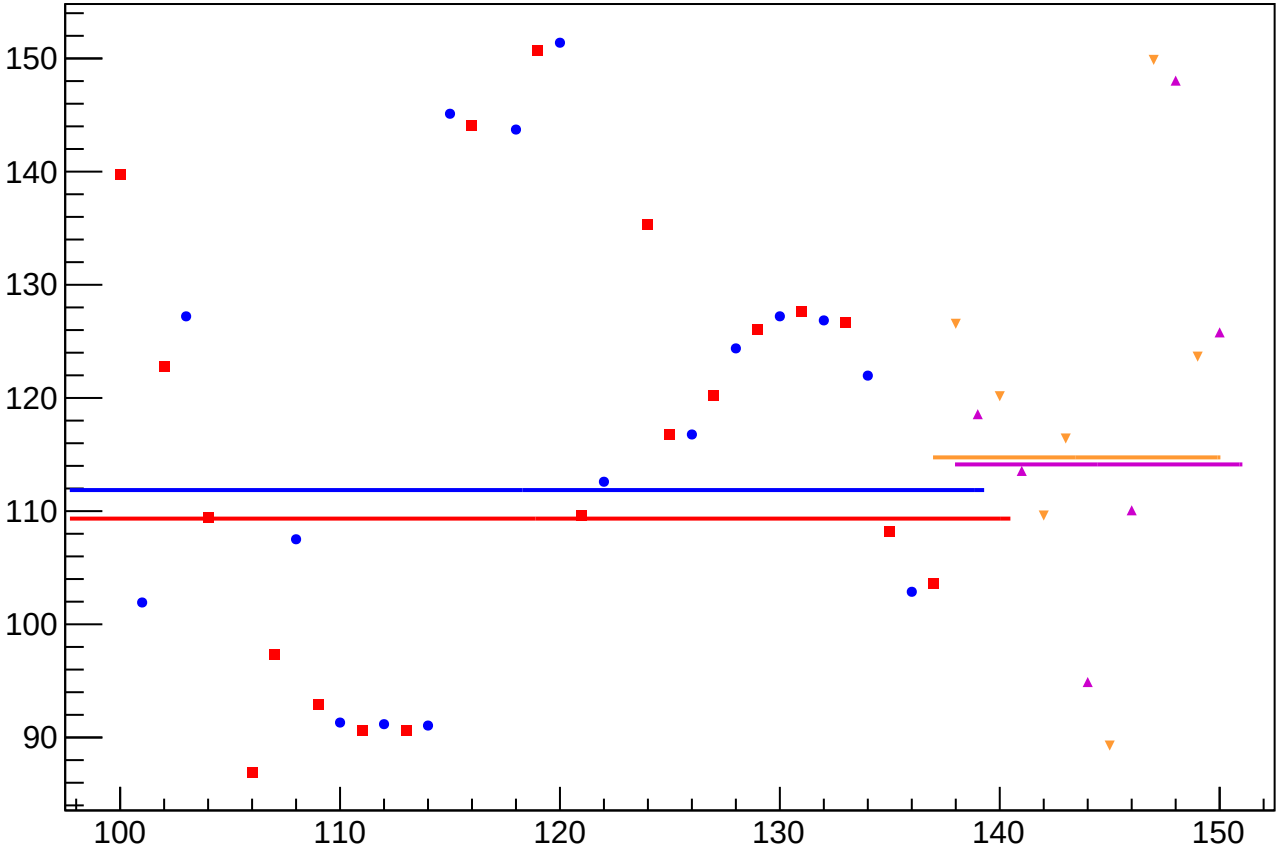
Right: 130.613+/-29.263 $\chi^2$/NDF: 30.8/34

In: 137.050+/-32.310 $\chi^2$/NDF:25.8/21

Out: 199.773+/-31.624 $\chi^2$/NDF:20.5/25

All: 169.085+/-22.600 $\chi^2$/NDF: 48.2/47

# reg_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306023.8/15

Left Out: 114.749+/-0.036 $\chi^2$/NDF:249646.5/6

Right Out: 109.340+/-0.029 $\chi^2$/NDF: 367219.9/18

Left In: 114.128+/-0.036 $\chi^2$/NDF:180743.1/5

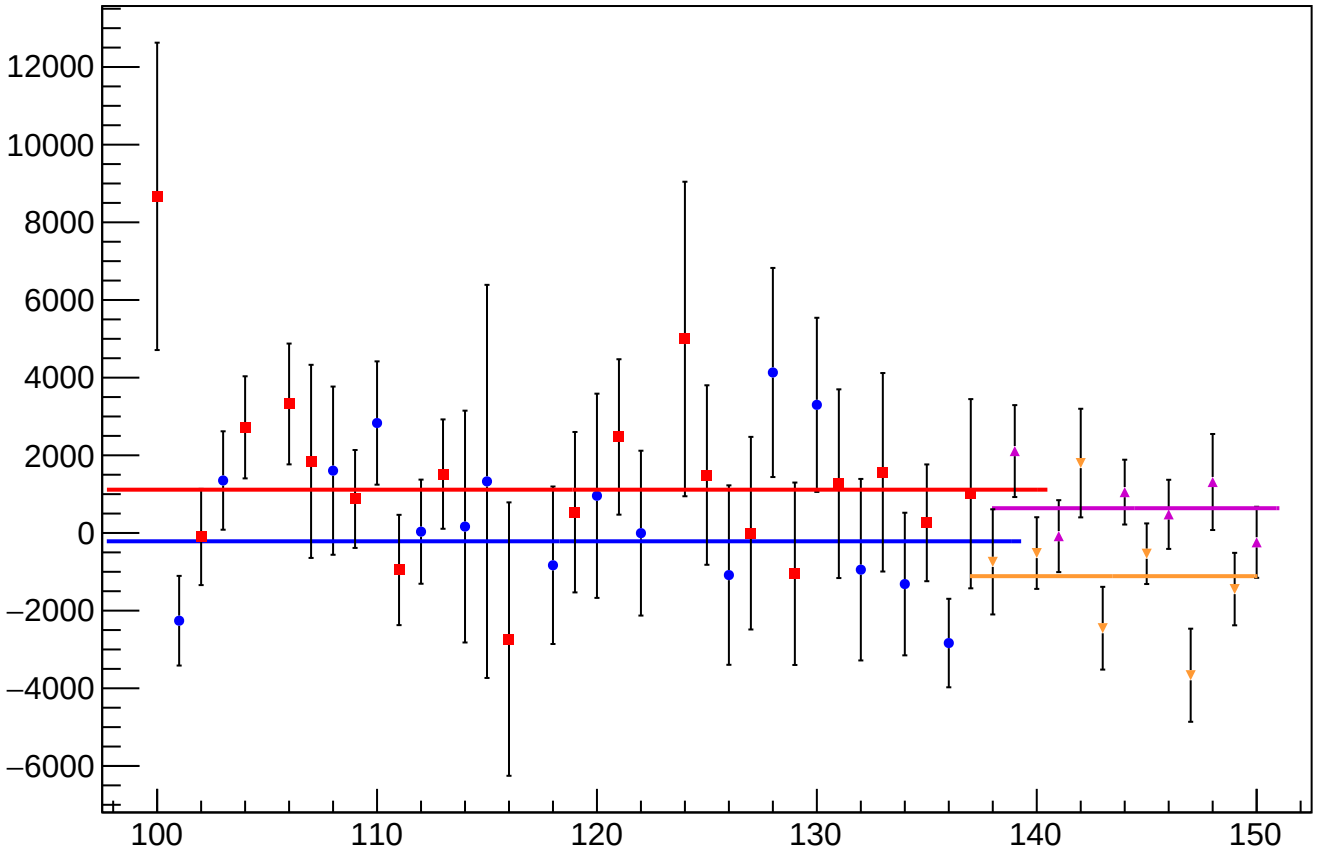
Left: 114.439+/-0.025 $\chi^2$/NDF: 430542.2/12

Right: 110.557+/-0.021 $\chi^2$/NDF: 676952.3/34

In: 112.795+/-0.023 $\chi^2$/NDF:489149.5/21

Out: 111.479+/-0.022 $\chi^2$/NDF:630855.3/25

All: 112.123+/-0.016 $\chi^2$/NDF: 1121699.3/47




Right In: -214.187+/-443.962 $\chi^2$/NDF: 20.4/15

Left Out: -1112.312+/-389.318 $\chi^2$/NDF:11.6/6

Right Out: 1114.700+/-423.039 $\chi^2$/NDF: 14.5/18

Left In: 637.828+/-394.522 $\chi^2$/NDF:3.6/5

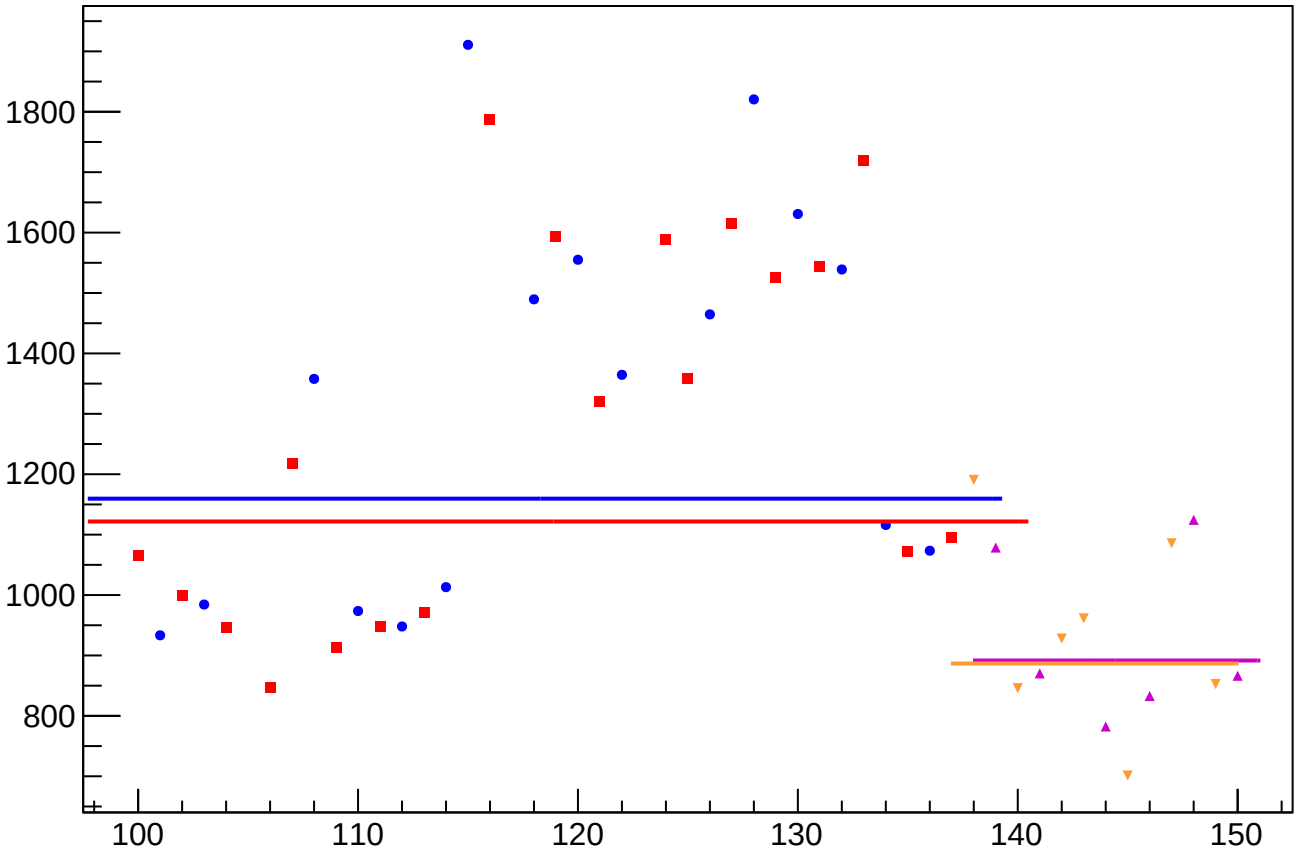
Left: -248.860+/-277.111 $\chi^2$/NDF: 25.2/12

Right: 482.307+/-306.263 $\chi^2$/NDF: 39.7/34

In: 261.885+/-294.906 $\chi^2$/NDF:26.1/21

Out: -91.090+/-286.470 $\chi^2$/NDF:41.1/25

All: 80.277+/-205.483 $\chi^2$/NDF: 68.0/47




Right In: 1159.567+/-0.314 $\chi^2$/NDF: 683693.3/15

Left Out: 886.640+/-0.275 $\chi^2$/NDF:286764.2/6

Right Out: 1121.752+/-0.299 $\chi^2$/NDF: 782273.3/18

Left In: 891.649+/-0.279 $\chi^2$/NDF:166384.1/5

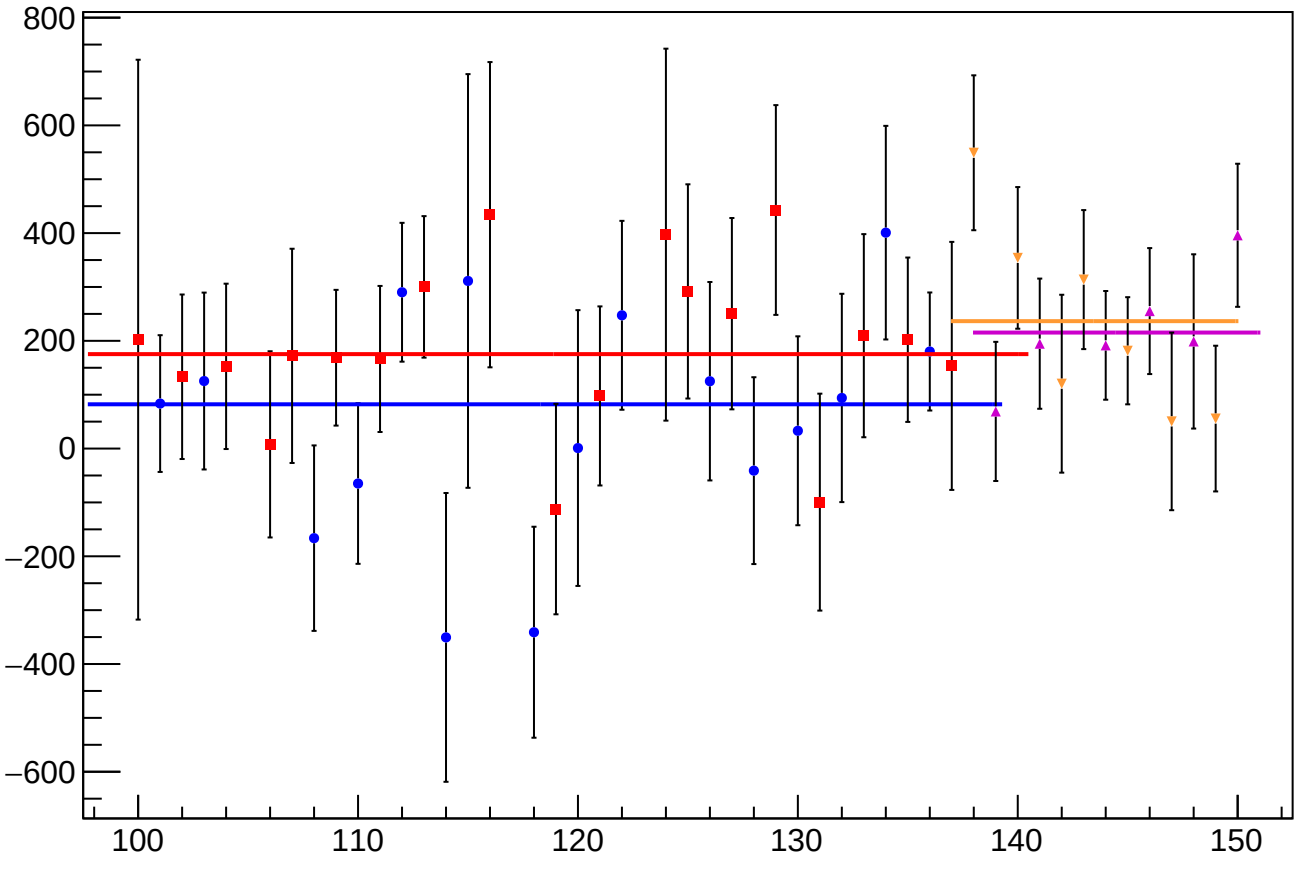
Left: 889.111+/-0.196 $\chi^2$/NDF: 453311.6/12

Right: 1139.747+/-0.217 $\chi^2$/NDF: 1473571.5/34

In: 1009.865+/-0.209 $\chi^2$/NDF:1257051.6/21

Out: 994.453+/-0.203 $\chi^2$/NDF:1403513.7/25

All: 1001.936+/-0.145 $\chi^2$/NDF: 2663375.6/47




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 236.536+/-50.287 $\chi^2$/NDF:9.7/6

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 215.362+/-50.341 $\chi^2$/NDF:3.3/5

Left: 225.960+/-35.577 $\chi^2$/NDF: 13.2/12

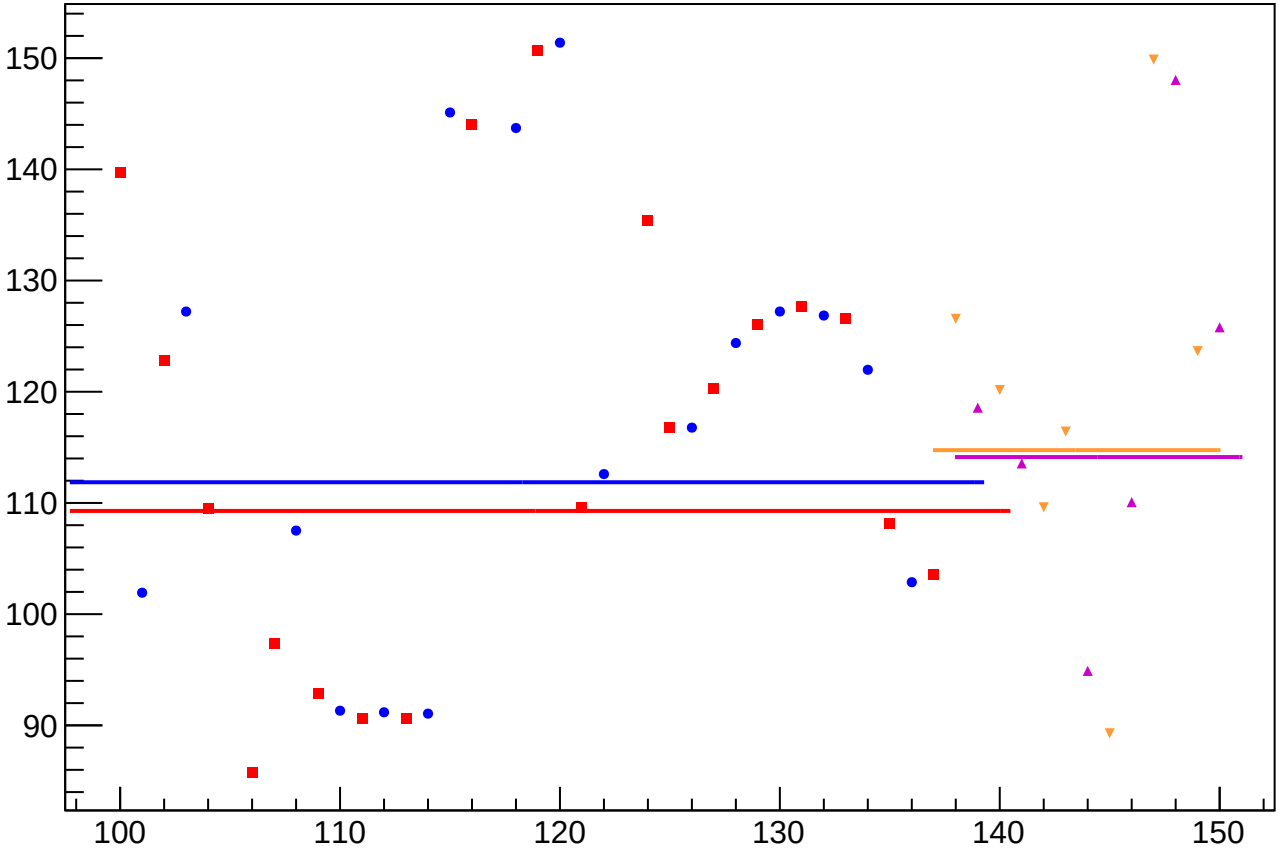
Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 137.045+/-32.310 $\chi^2$/NDF:25.8/21

Out: 199.544+/-31.626 $\chi^2$/NDF:20.6/25

All: 168.963+/-22.601 $\chi^2$/NDF: 48.3/47

# cor_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 114.749+/-0.036 $\chi^2$/NDF:249646.5/6

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 114.128+/-0.036 $\chi^2$/NDF:180743.1/5

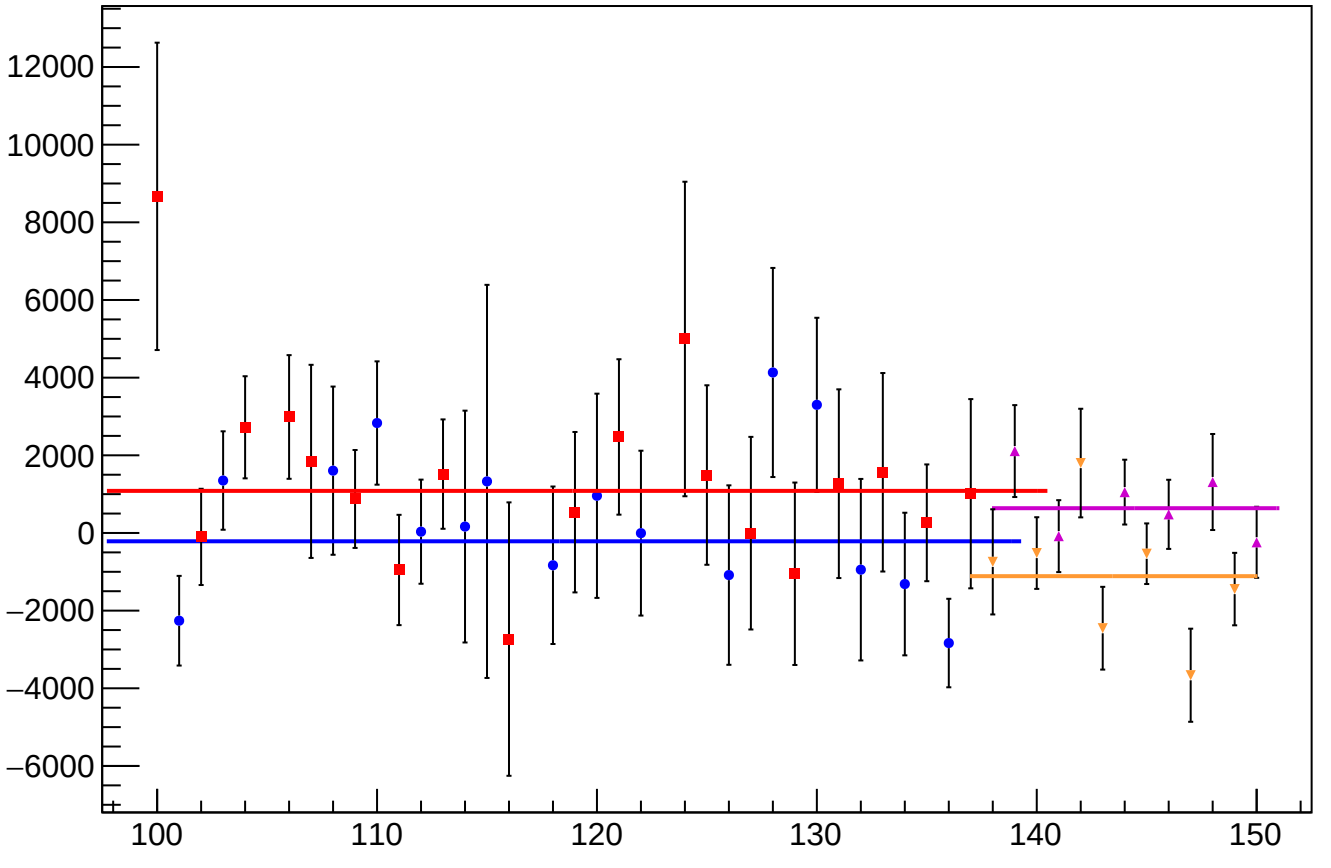
Left: 114.439+/-0.025 $\chi^2$/NDF: 430542.2/12

Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 112.795+/-0.023 $\chi^2$/NDF:489150.6/21

Out: 111.446+/-0.022 $\chi^2$/NDF:634637.3/25

All: 112.106+/-0.016 $\chi^2$/NDF: 1125569.8/47




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -1112.301+/-389.318 $\chi^2$/NDF:11.6/6

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 637.838+/-394.522 $\chi^2$/NDF:3.6/5

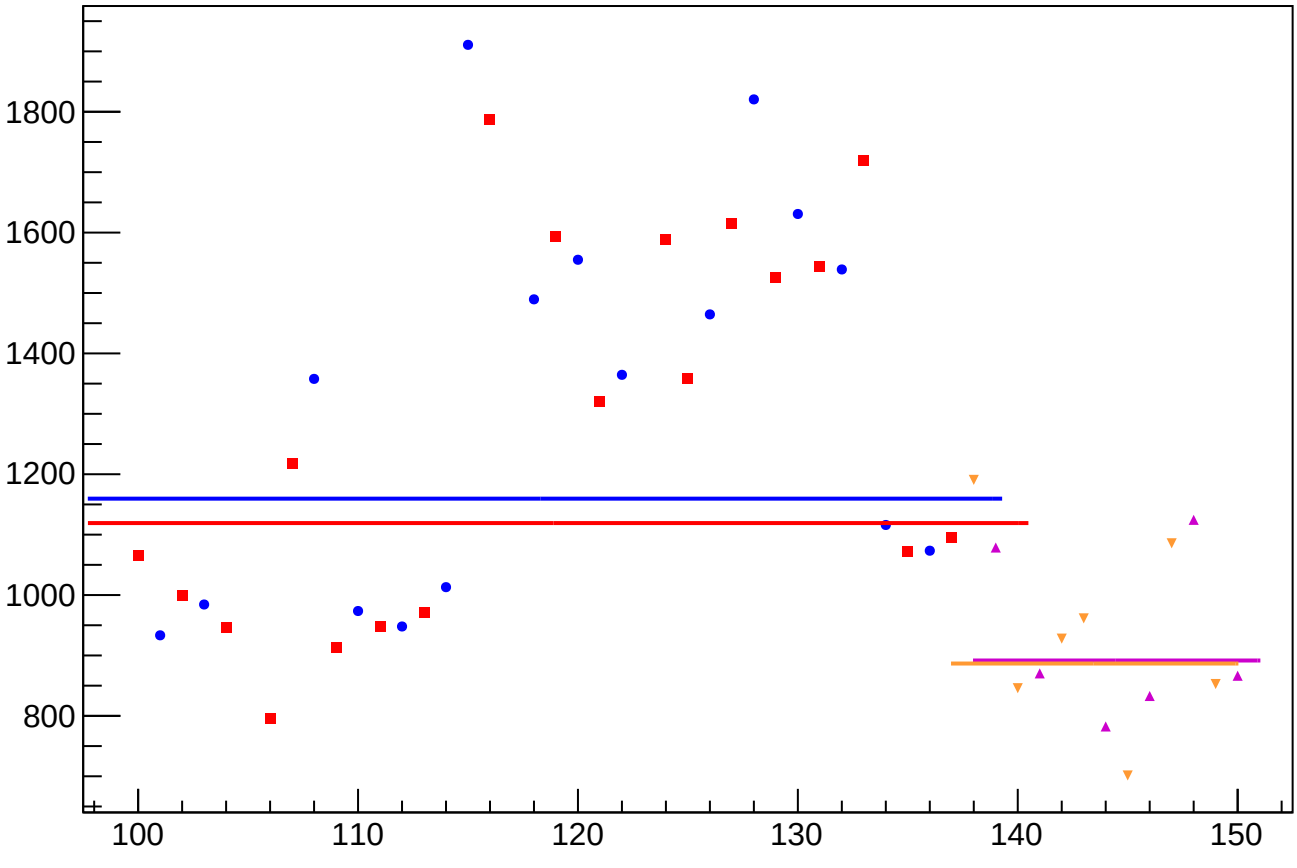
Left: -248.850+/-277.111 $\chi^2$/NDF: 25.2/12

Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 261.853+/-294.907 $\chi^2$/NDF:26.1/21

Out: -107.082+/-286.698 $\chi^2$/NDF:40.1/25

All: 72.179+/-205.567 $\chi^2$/NDF: 67.0/47




Right In: 1159.576+/-0.314 $\chi^2$/NDF: 683662.2/15

Left Out: 886.640+/-0.275 $\chi^2$/NDF:286765.8/6

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 891.649+/-0.279 $\chi^2$/NDF:166382.2/5

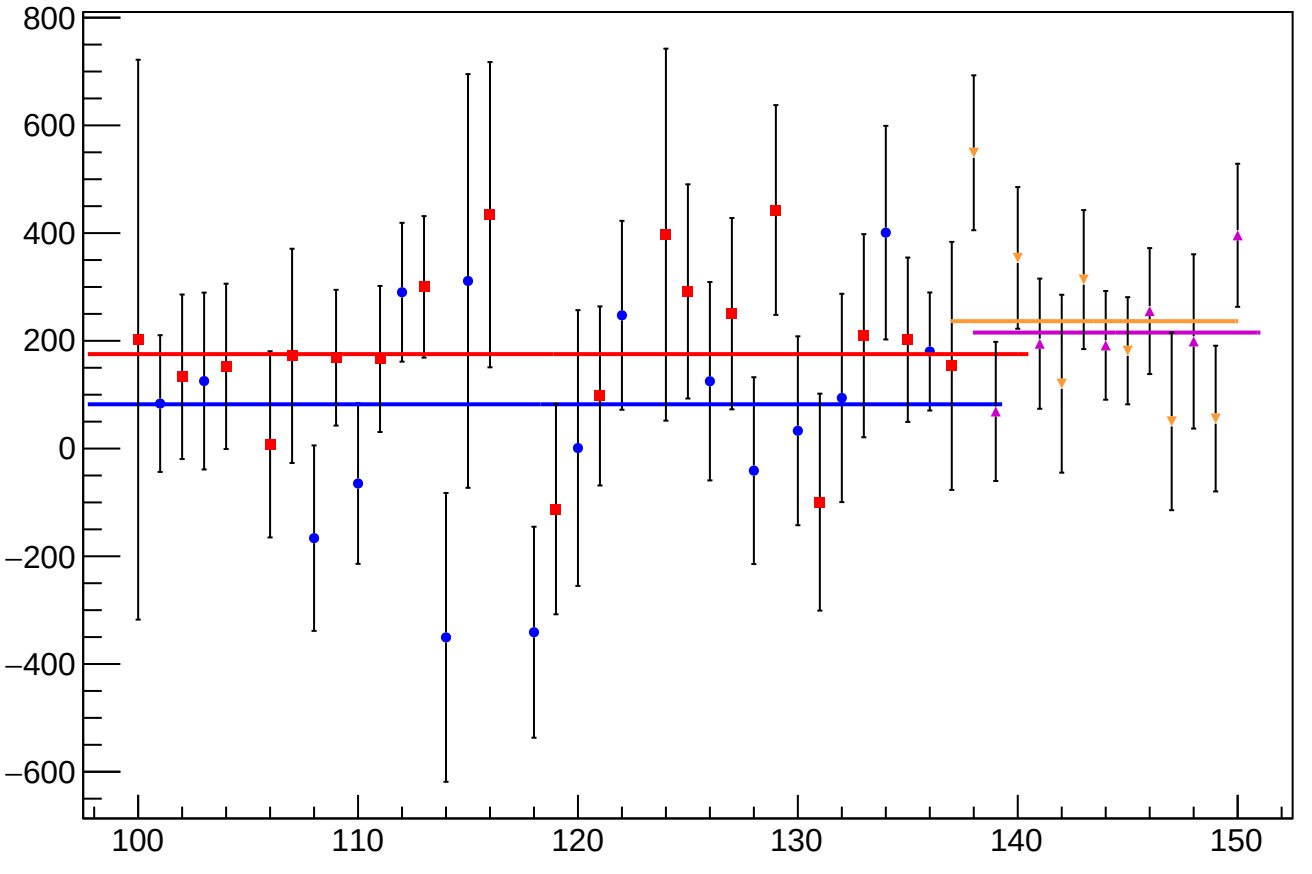
Left: 889.111+/-0.196 $\chi^2$/NDF: 453311.4/12

Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 1009.869+/-0.209 $\chi^2$/NDF:1257043.2/21

Out: 993.062+/-0.203 $\chi^2$/NDF:1416436.5/25

All: 1001.228+/-0.145 $\chi^2$/NDF: 2676819.0/47




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 236.536+/-50.287 $\chi^2$/NDF:9.7/6

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 215.362+/-50.341 $\chi^2$/NDF:3.3/5

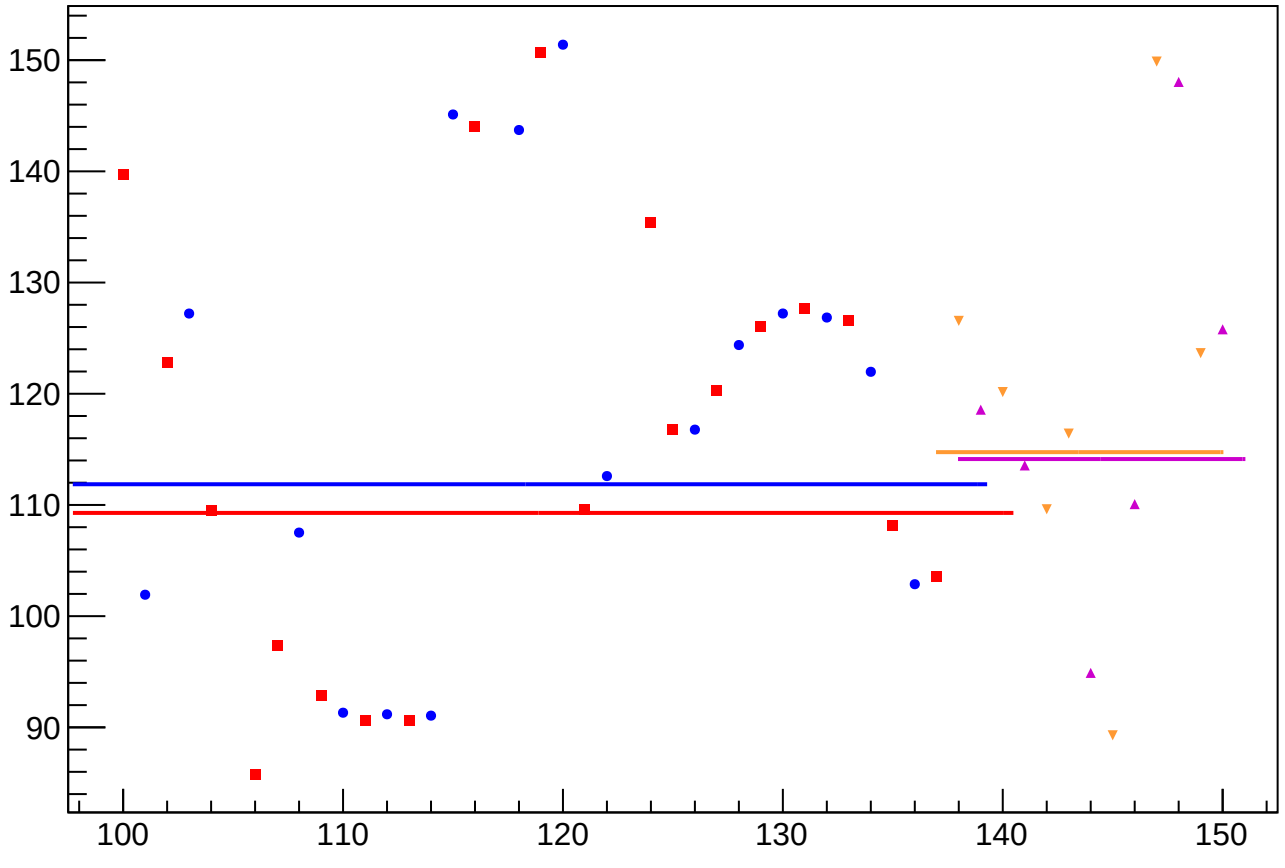
Left: 225.960+/-35.577 $\chi^2$/NDF: 13.2/12

Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 137.045+/-32.310 $\chi^2$/NDF:25.8/21

Out: 199.544+/-31.626 $\chi^2$/NDF:20.6/25

All: 168.963+/-22.601 $\chi^2$/NDF: 48.3/47




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 114.749+/-0.036 $\chi^2$/NDF:249646.5/6

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 114.128+/-0.036 $\chi^2$/NDF:180743.1/5

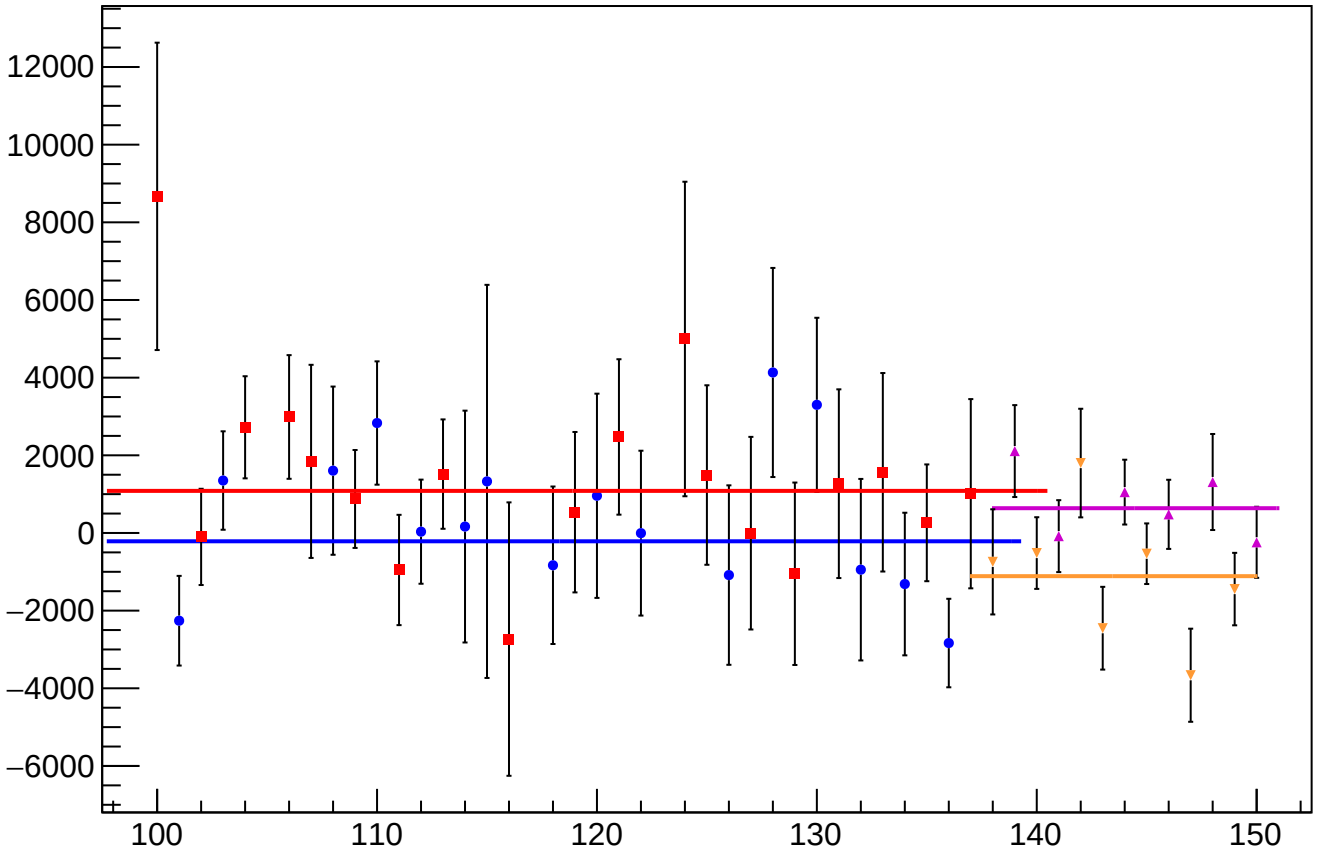
Left: 114.439+/-0.025 $\chi^2$/NDF: 430542.2/12

Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 112.795+/-0.023 $\chi^2$/NDF:489150.6/21

Out: 111.446+/-0.022 $\chi^2$/NDF:634637.3/25

All: 112.106+/-0.016 $\chi^2$/NDF: 1125569.8/47




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -1112.301+/-389.318 $\chi^2$/NDF:11.6/6

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 637.838+/-394.522 $\chi^2$/NDF:3.6/5

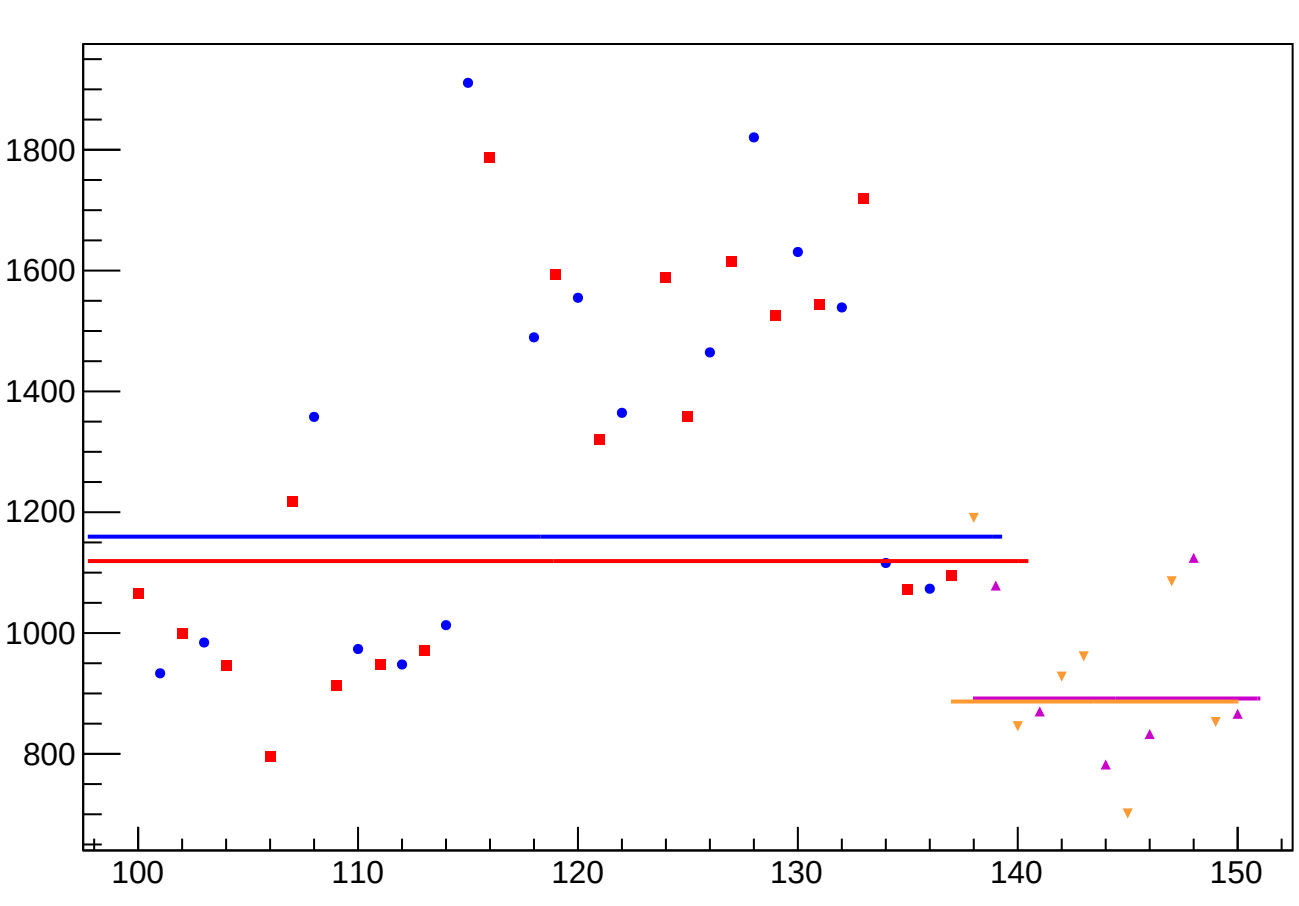
Left: -248.850+/-277.111 $\chi^2$/NDF: 25.2/12

Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 261.853+/-294.907 $\chi^2$/NDF:26.1/21

Out: -107.082+/-286.698 $\chi^2$/NDF:40.1/25

All: 72.179+/-205.567 $\chi^2$/NDF: 67.0/47




Right In: 1159.576+/-0.314 $\chi^2$/NDF: 683662.2/15

Left Out: 886.640+/-0.275 $\chi^2$/NDF:286765.8/6

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 891.649+/-0.279 $\chi^2$/NDF:166382.2/5

Left: 889.111+/-0.196 $\chi^2$/NDF: 453311.4/12

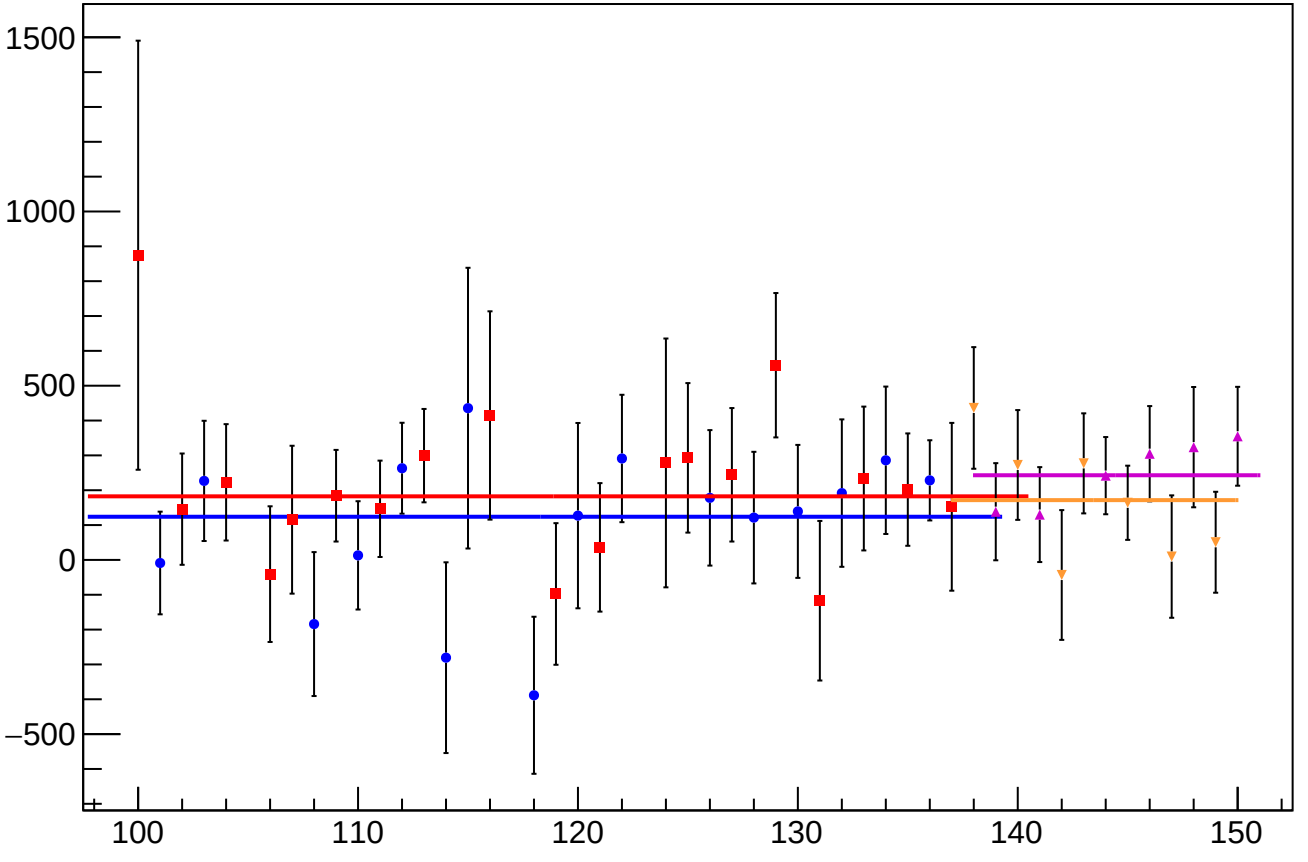
Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 1009.869+/-0.209 $\chi^2$/NDF:1257043.2/21

Out: 993.062+/-0.203 $\chi^2$/NDF:1416436.5/25

All: 1001.228+/-0.145 $\chi^2$/NDF: 2676819.0/47

# dit_asym_sam_48_dd_mean vs Slug, Sign Corrected




Right In: 123.892+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 171.568+/-56.013 $\chi^2$/NDF:6.1/6

Right Out: 182.467+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 242.984+/-55.599 $\chi^2$/NDF:2.3/5

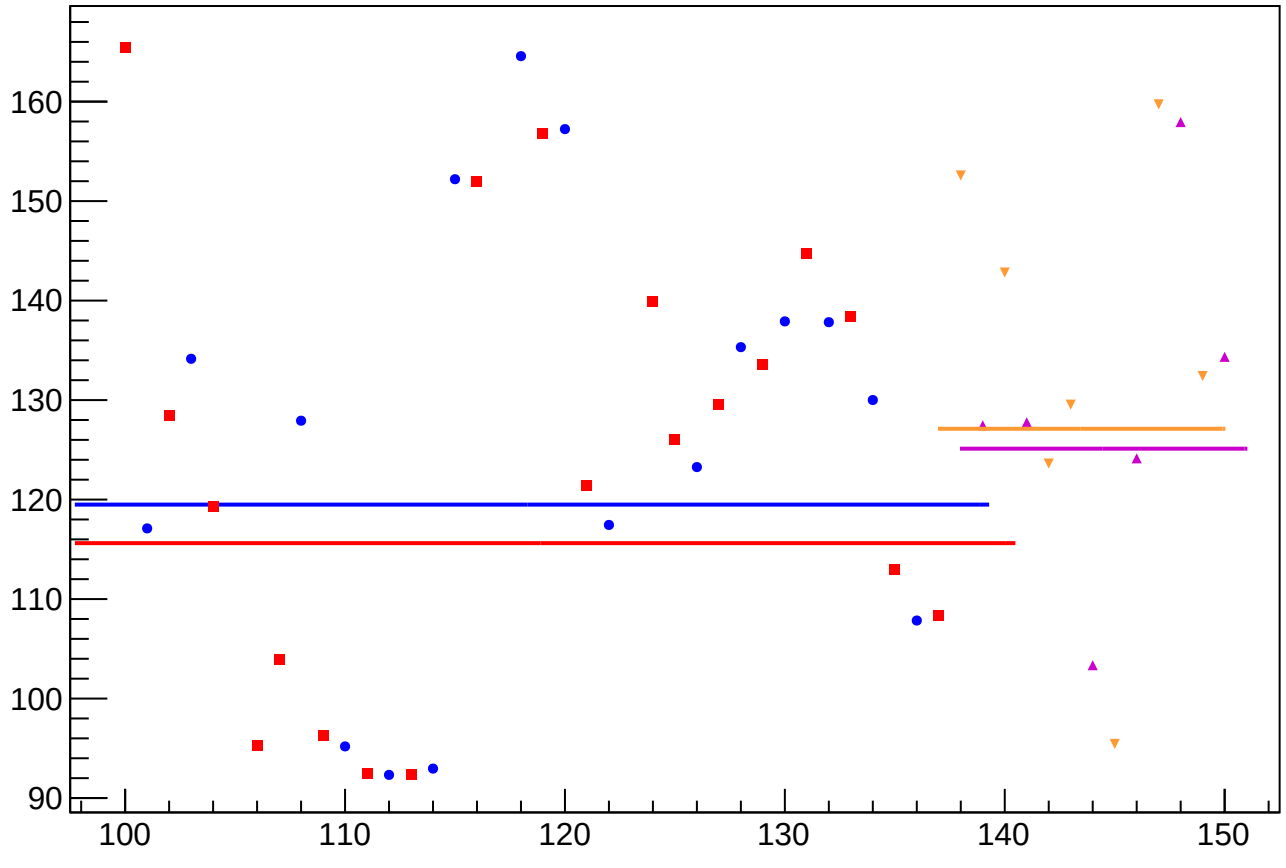
Left: 207.541+/-39.460 $\chi^2$/NDF: 9.2/12

Right: 154.513+/-31.252 $\chi^2$/NDF: 28.6/34

In: 171.329+/-35.090 $\chi^2$/NDF:20.5/21

Out: 178.399+/-34.220 $\chi^2$/NDF:18.4/25

All: 174.953+/-24.499 $\chi^2$/NDF: 39.0/47




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380250.8/15

Left Out: 127.117+/-0.040 $\chi^2$/NDF:312311.2/6

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426961.7/18

Left In: 125.117+/-0.039 $\chi^2$/NDF:159375.4/5

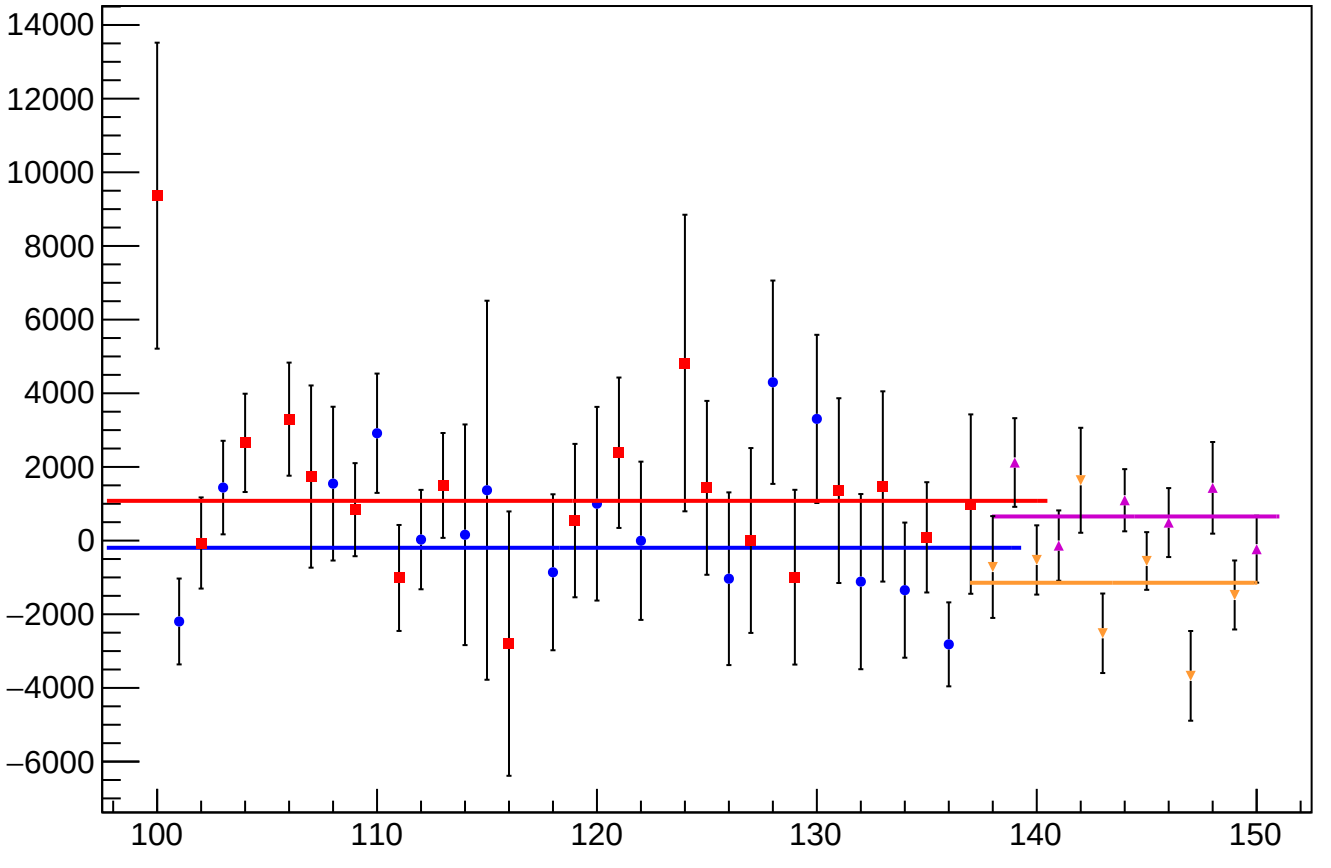
Left: 126.109+/-0.028 $\chi^2$/NDF: 472970.8/12

Right: 117.470+/-0.022 $\chi^2$/NDF: 814875.1/34

In: 121.734+/-0.025 $\chi^2$/NDF:551931.3/21

Out: 119.912+/-0.024 $\chi^2$/NDF:792066.2/25

All: 120.800+/-0.017 $\chi^2$/NDF: 1346761.1/47




Right In: -195.086+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -1144.971+/-393.802 $\chi^2$/NDF:11.0/6

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 655.257+/-401.997 $\chi^2$/NDF:3.8/5

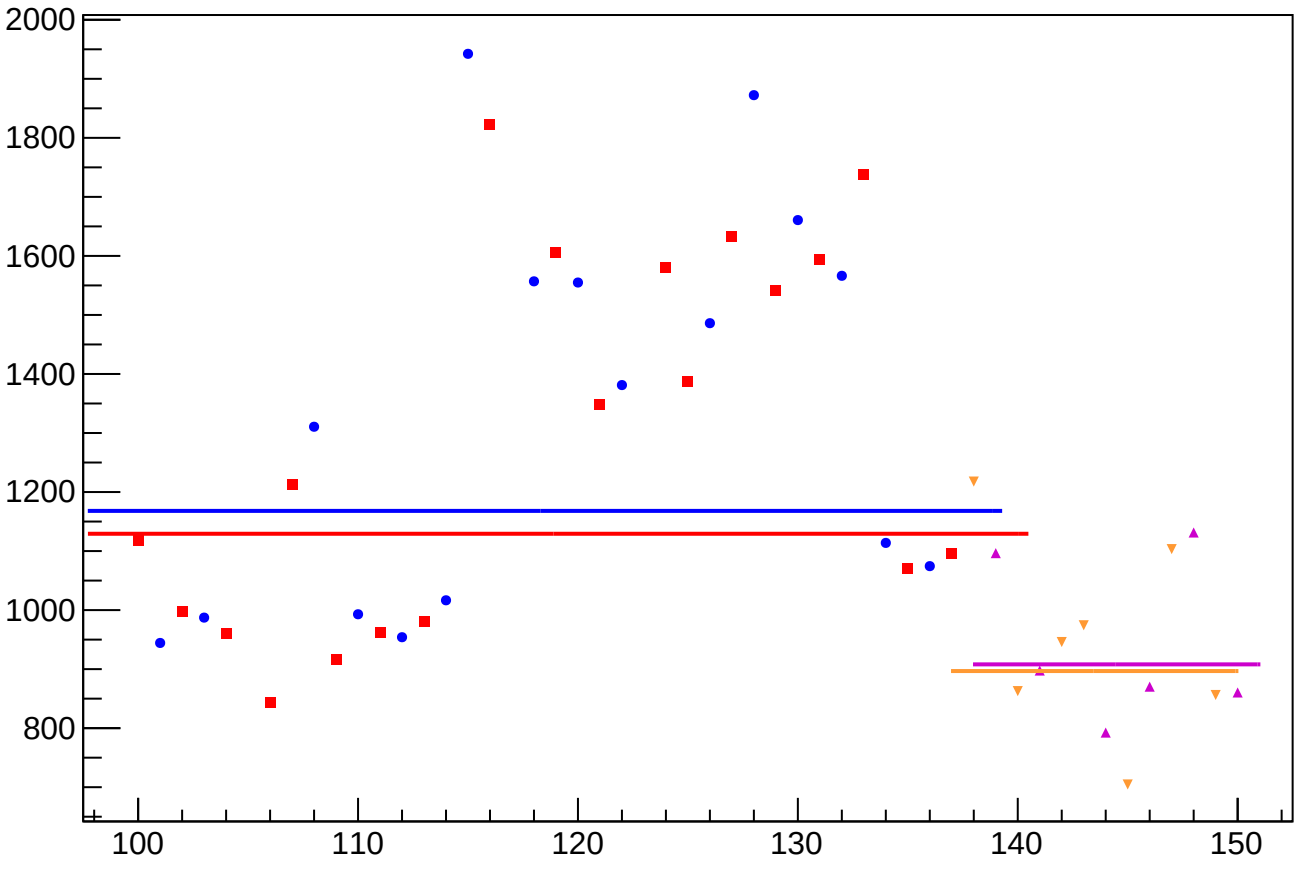
Left: -263.395+/-281.313 $\chi^2$/NDF: 25.0/12

Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 275.347+/-299.003 $\chi^2$/NDF:26.2/21

Out: -119.888+/-289.158 $\chi^2$/NDF:40.2/25

All: 71.116+/-207.859 $\chi^2$/NDF: 67.3/47




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709363.8/15

Left Out: 896.749+/-0.278 $\chi^2$/NDF:304786.0/6

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807222.5/18

Left In: 908.068+/-0.284 $\chi^2$/NDF:159916.6/5

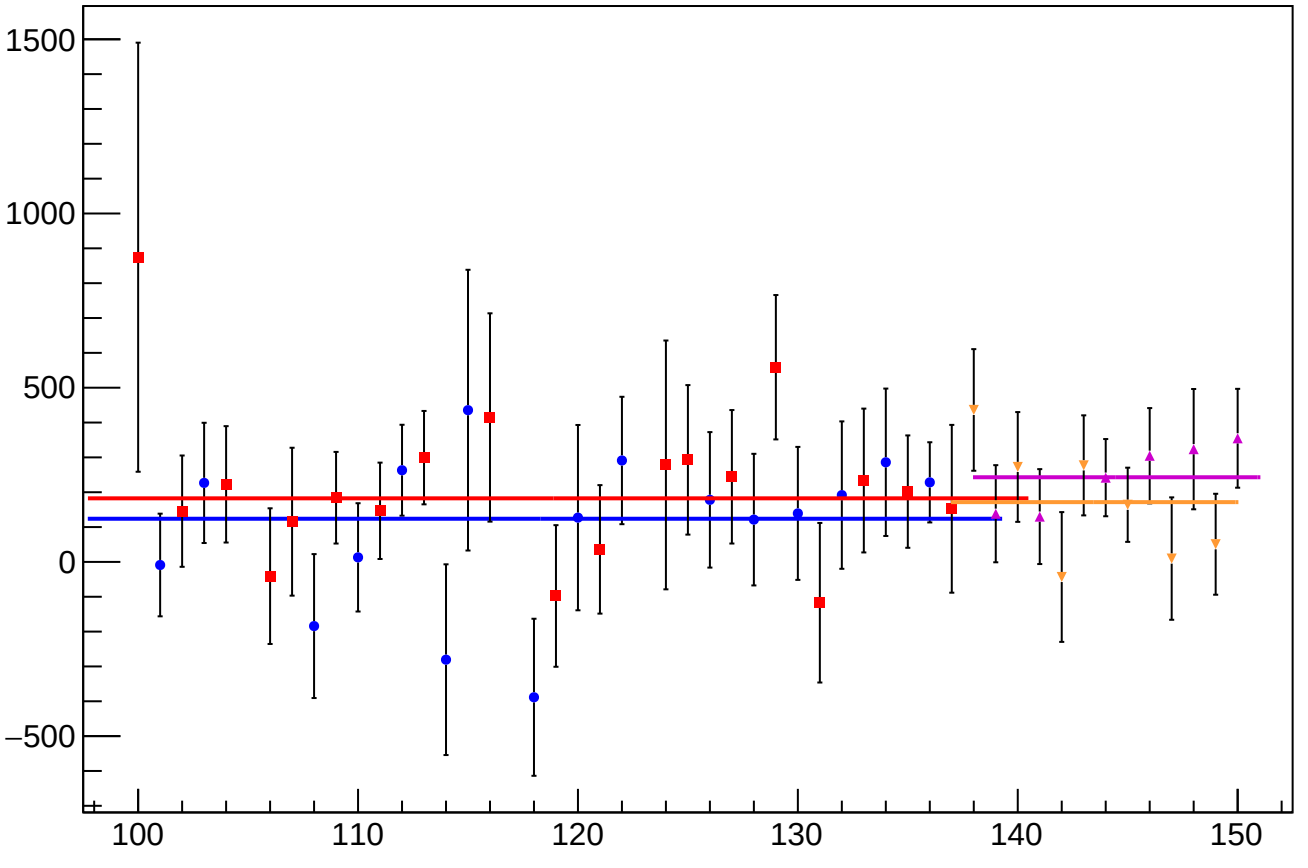
Left: 902.292+/-0.199 $\chi^2$/NDF: 465511.7/12

Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524455.8/34

In: 1024.227+/-0.211 $\chi^2$/NDF:1243046.4/21

Out: 1003.926+/-0.204 $\chi^2$/NDF:1433467.8/25

All: 1013.737+/-0.147 $\chi^2$/NDF: 2681278.0/47




Right In: 123.895+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 171.569+/-56.013 $\chi^2$/NDF:6.1/6

Right Out: 182.468+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 242.985+/-55.599 $\chi^2$/NDF:2.3/5

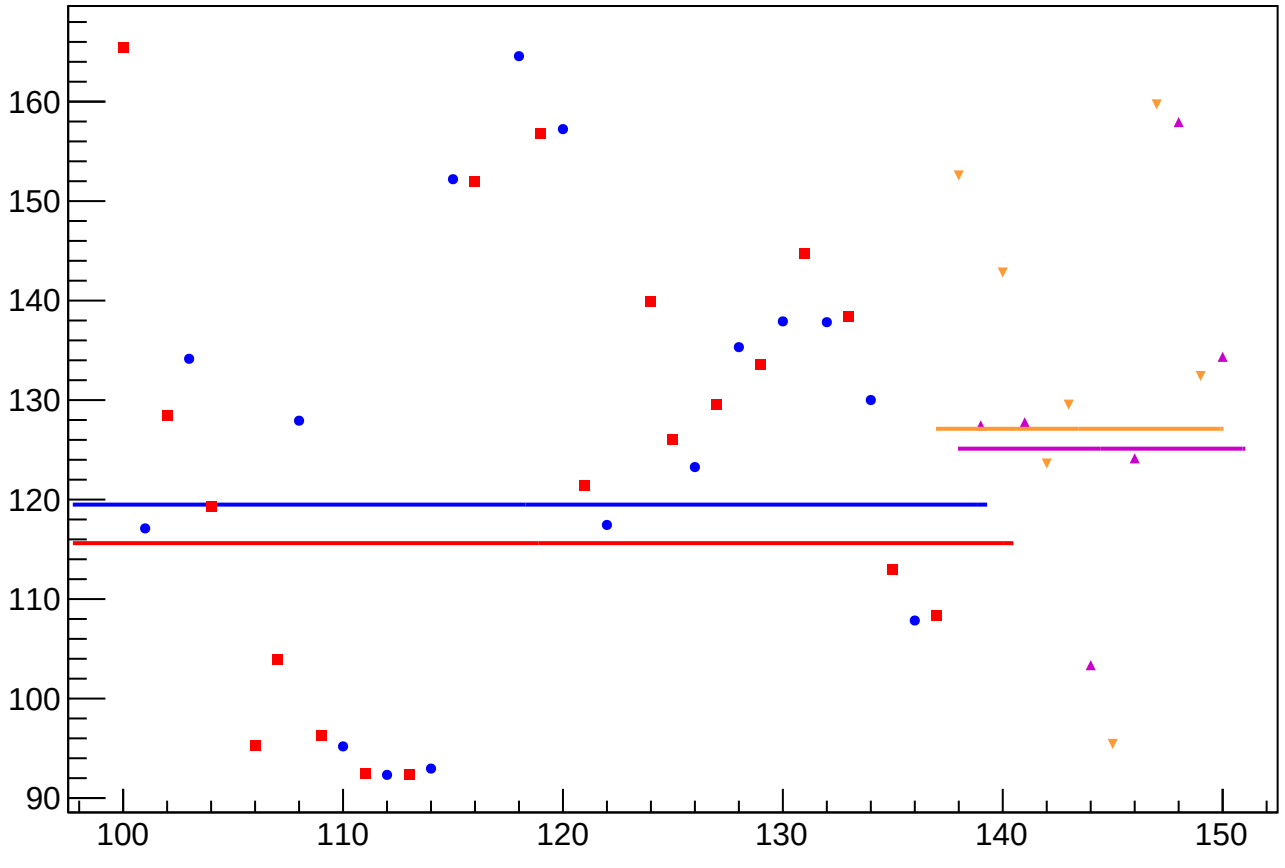
Left: 207.541+/-39.460 $\chi^2$/NDF: 9.2/12

Right: 154.514+/-31.252 $\chi^2$/NDF: 28.6/34

In: 171.331+/-35.090 $\chi^2$/NDF:20.5/21

Out: 178.400+/-34.220 $\chi^2$/NDF:18.4/25

All: 174.954+/-24.499 $\chi^2$/NDF: 39.0/47




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380254.2/15

Left Out: 127.117+/-0.040 $\chi^2$/NDF:312309.1/6

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426966.4/18

Left In: 125.117+/-0.039 $\chi^2$/NDF:159373.1/5

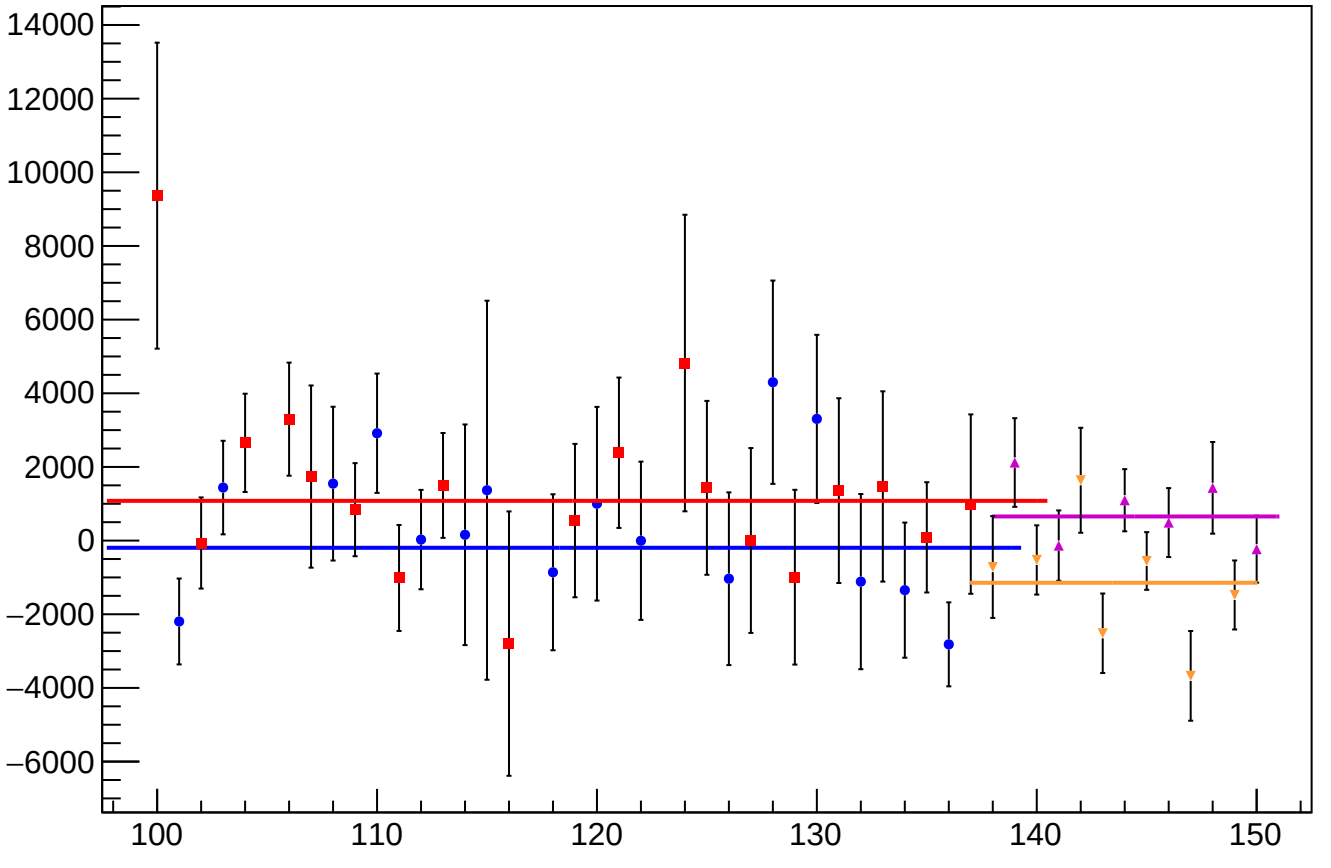
Left: 126.109+/-0.028 $\chi^2$/NDF: 472966.4/12

Right: 117.470+/-0.022 $\chi^2$/NDF: 814883.4/34

In: 121.734+/-0.025 $\chi^2$/NDF:551932.5/21

Out: 119.912+/-0.024 $\chi^2$/NDF:792069.4/25

All: 120.800+/-0.017 $\chi^2$/NDF: 1346765.6/47




Right In: -195.085+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -1144.970+/-393.802 $\chi^2$/NDF:11.0/6

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 655.257+/-401.997 $\chi^2$/NDF:3.8/5

Left: -263.395+/-281.313 $\chi^2$/NDF: 25.0/12

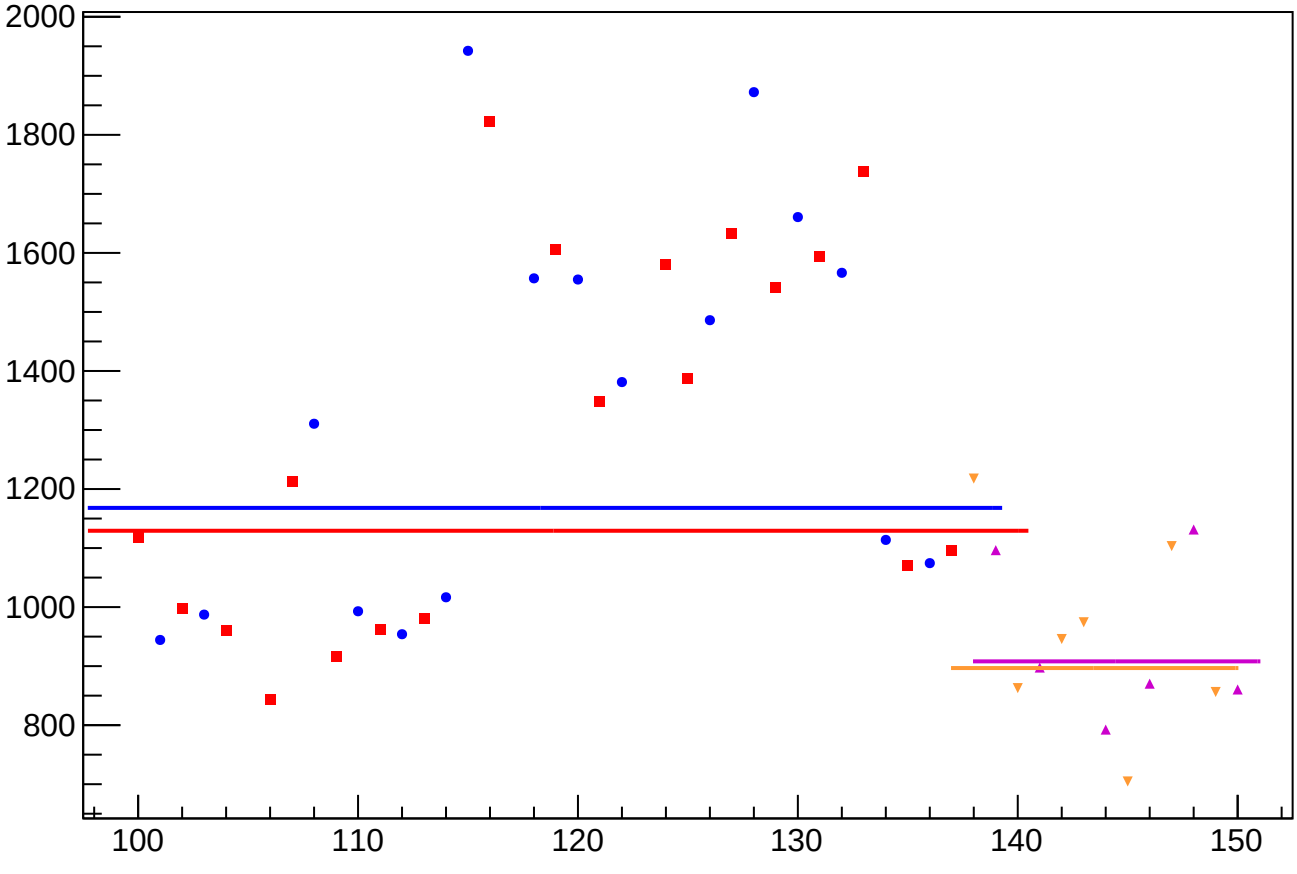
Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 275.347+/-299.003 $\chi^2$/NDF:26.2/21

Out: -119.888+/-289.158 $\chi^2$/NDF:40.2/25

All: 71.116+/-207.859 $\chi^2$/NDF: 67.3/47

asym_sam_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709365.6/15

Left Out: 896.748+/-0.278 $\chi^2$/NDF:304788.8/6

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807224.0/18

Left In: 908.068+/-0.284 $\chi^2$/NDF:159916.7/5

Left: 902.292+/-0.199 $\chi^2$/NDF: 465514.8/12

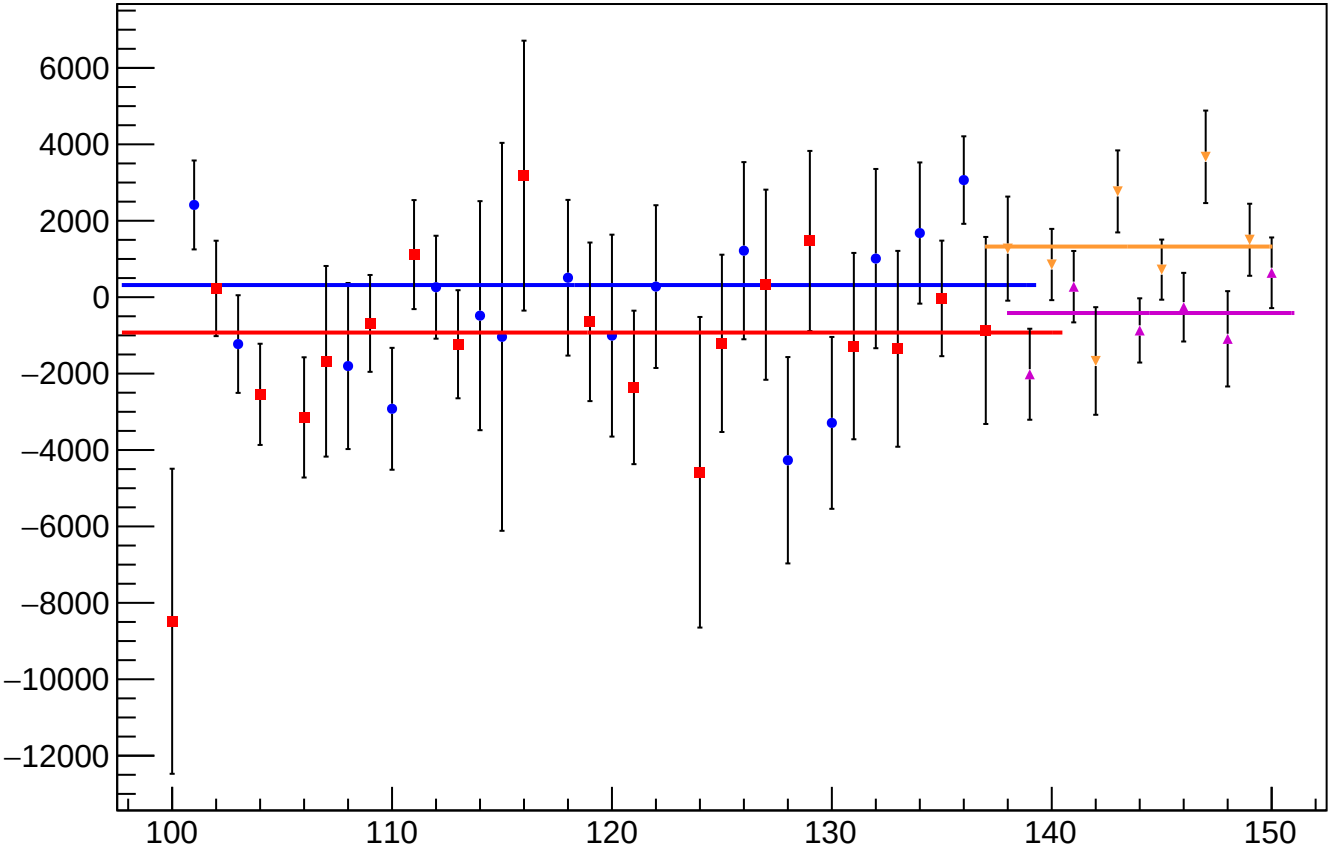
Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524459.2/34

In: 1024.227+/-0.211 $\chi^2$/NDF:1243047.3/21

Out: 1003.925+/-0.204 $\chi^2$/NDF:1433473.9/25

All: 1013.736+/-0.147 $\chi^2$/NDF: 2681285.4/47

# asym_sam_48_dd_mean vs Slug, Sign Corrected




Right In: 317.365+/-446.341 $\chi^2$/NDF: 22.2/15

Left Out: 1324.649+/-392.706 $\chi^2$/NDF:11.0/6

Right Out: -926.036+/-425.405 $\chi^2$/NDF: 14.5/18

Left In: -414.387+/-397.888 $\chi^2$/NDF:4.3/5

Left: 466.530+/-279.499 $\chi^2$/NDF: 24.9/12

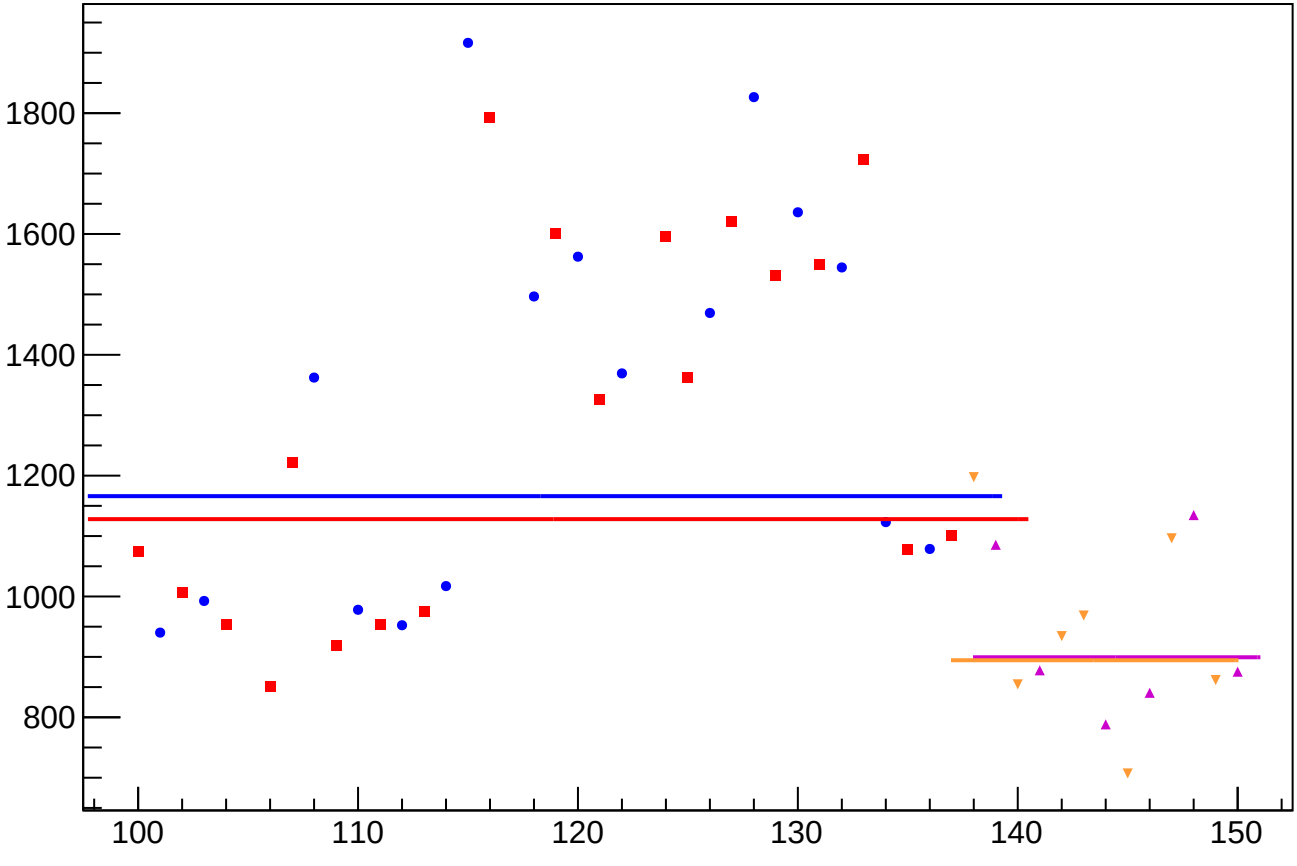
Right: -334.180+/-307.942 $\chi^2$/NDF: 40.8/34

In: -90.370+/-297.008 $\chi^2$/NDF:27.9/21

Out: 289.120+/-288.553 $\chi^2$/NDF:40.6/25

All: 104.853+/-206.962 $\chi^2$/NDF: 69.4/47

# asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 1166.056+/-0.316 $\chi^2$/NDF: 677063.1/15

Left Out: 894.445+/-0.278 $\chi^2$/NDF:285273.3/6

Right Out: 1128.006+/-0.301 $\chi^2$/NDF: 775766.7/18

Left In: 899.368+/-0.281 $\chi^2$/NDF:165910.5/5

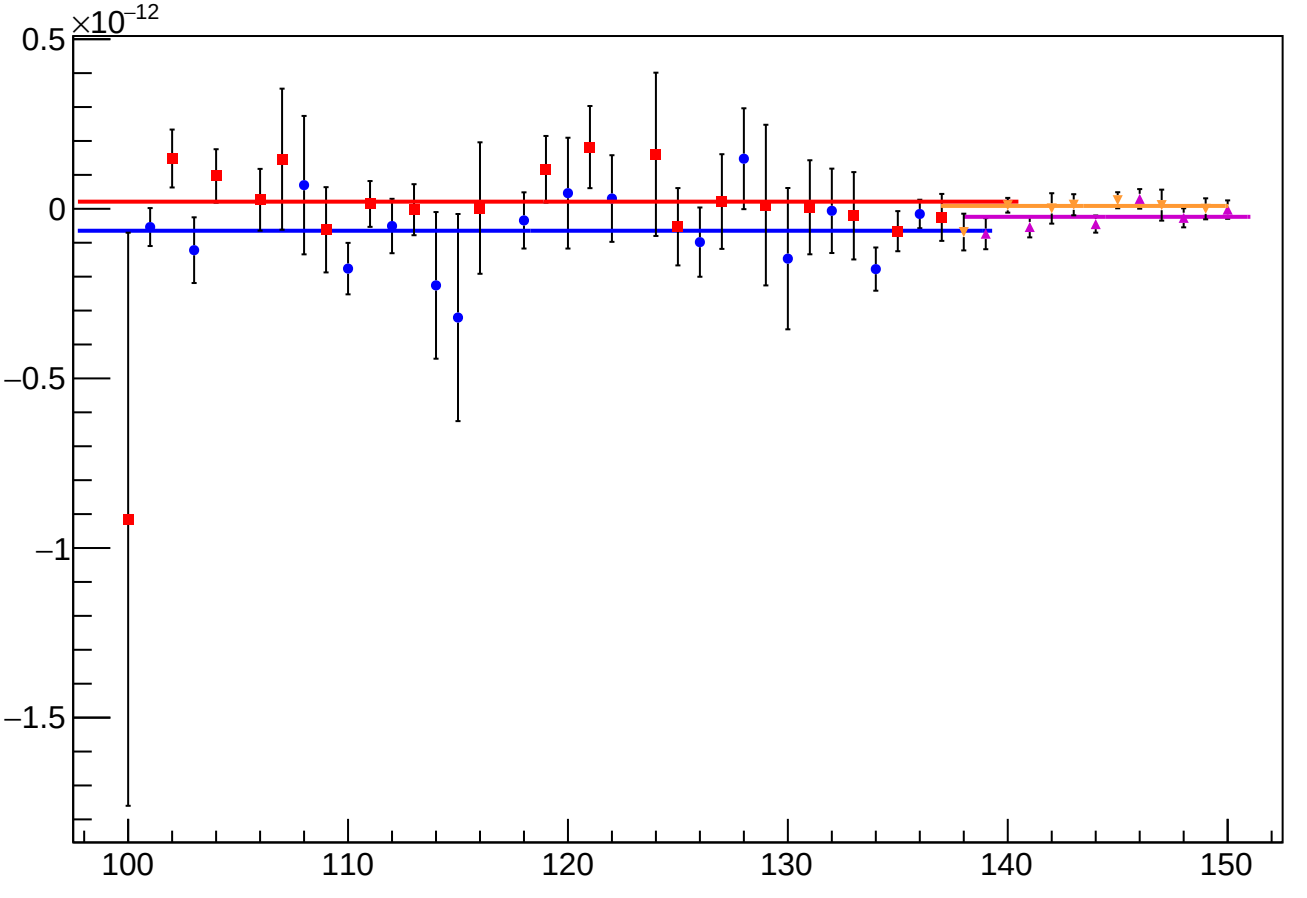
Left: 896.874+/-0.198 $\chi^2$/NDF: 451338.8/12

Right: 1146.118+/-0.218 $\chi^2$/NDF: 1460446.1/34

In: 1017.457+/-0.210 $\chi^2$/NDF:1240824.1/21

Out: 1001.905+/-0.204 $\chi^2$/NDF:1386535.6/25

All: 1009.457+/-0.146 $\chi^2$/NDF: 2630180.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.8/5

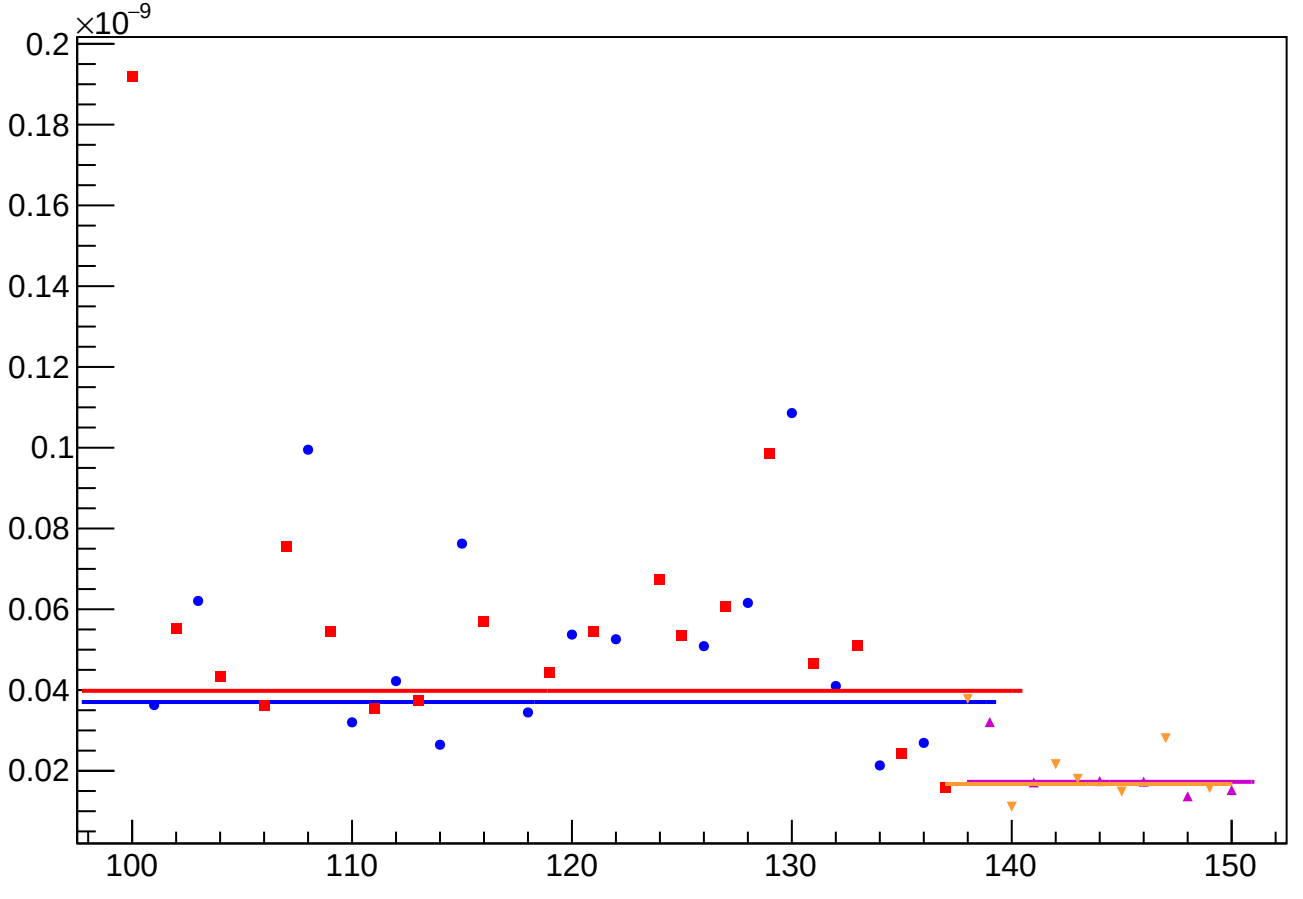
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:14.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 45.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 995390.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:602909.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 903728.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:252674.7/5

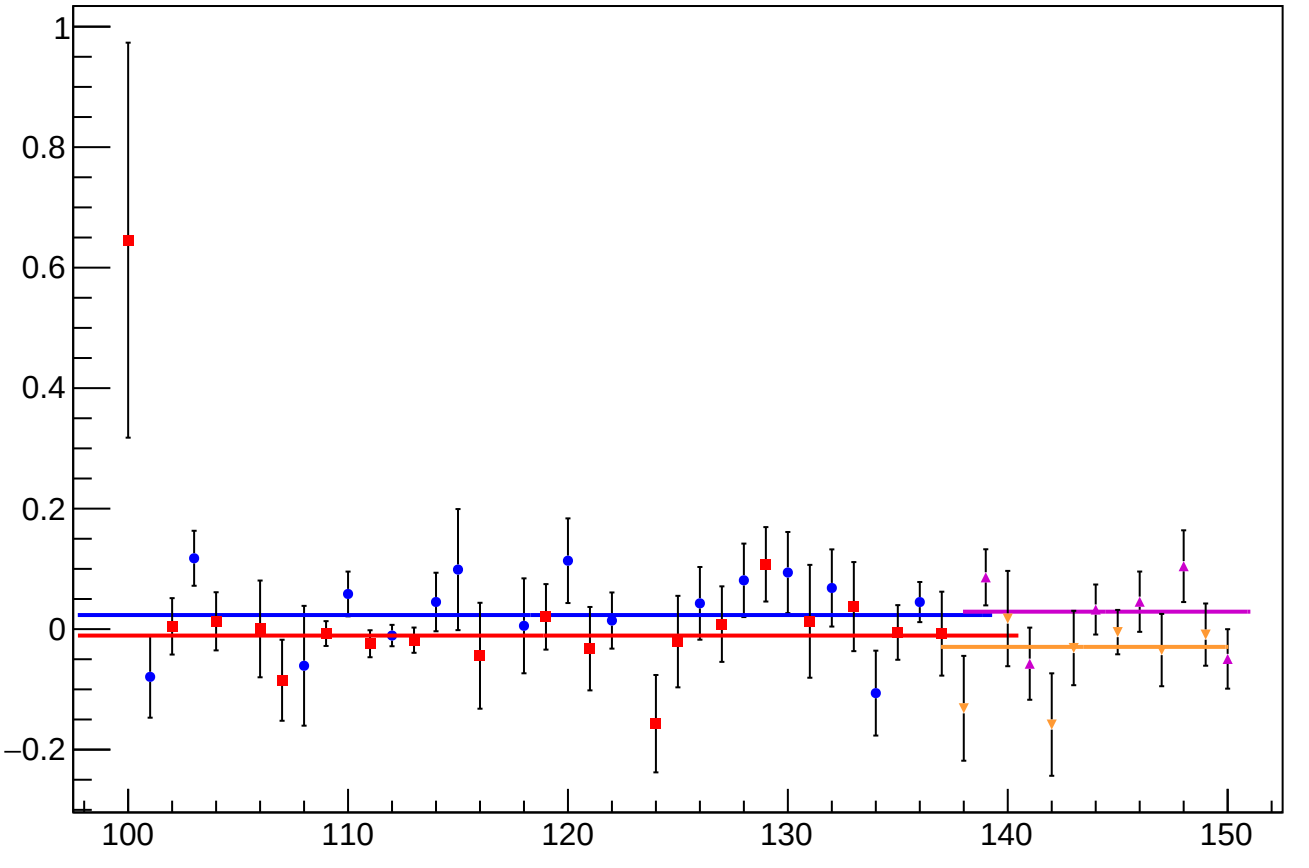
Left: 0.000+/-0.000 $\chi^2$/NDF: 857681.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 1914342.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:2505508.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3093521.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5600663.6/47




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.029+/-0.022 $\chi^2$/NDF:4.6/6

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.029+/-0.020 $\chi^2$/NDF:7.8/5

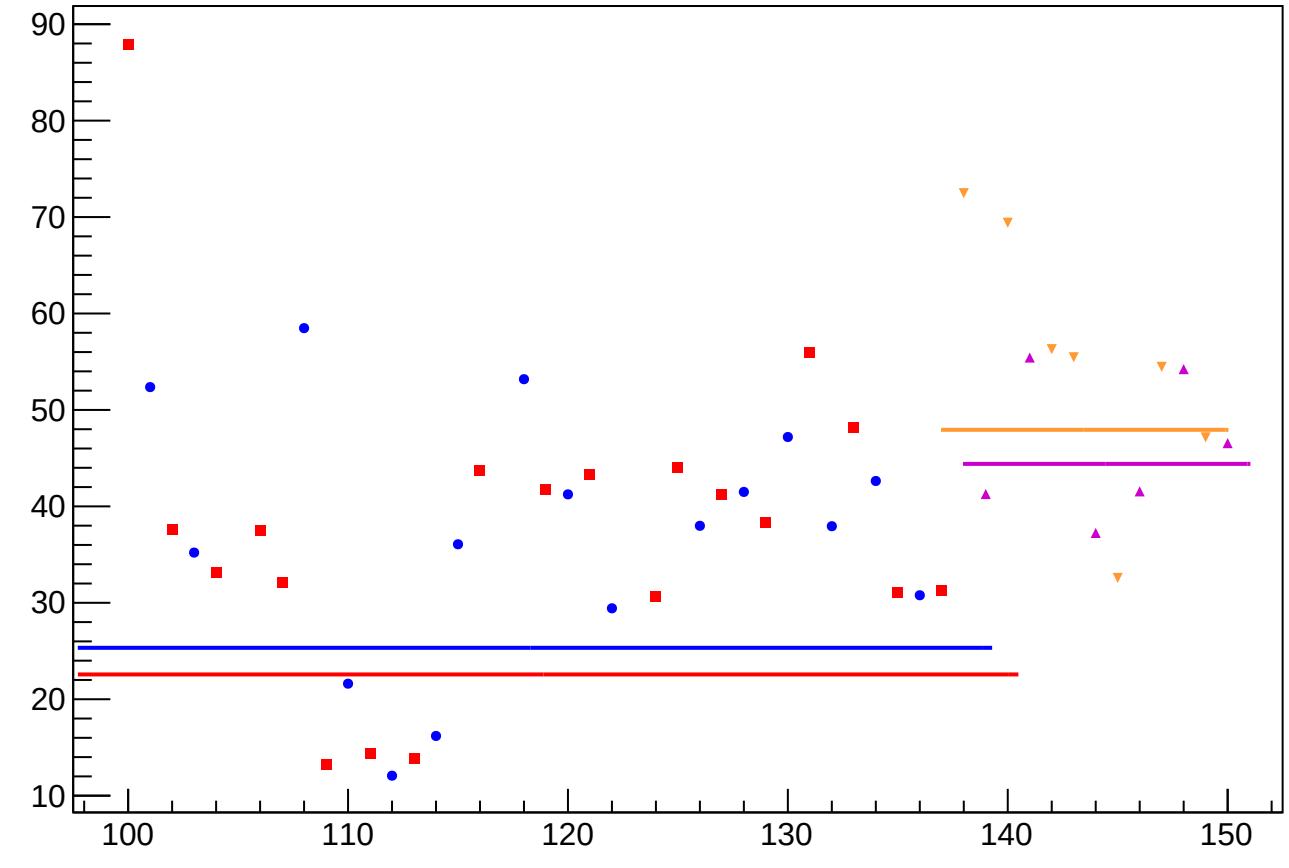
Left: 0.002+/-0.015 $\chi^2$/NDF: 16.3/12

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:28.6/21

Out: -0.014+/-0.009 $\chi^2$/NDF:19.5/25

All: 0.004+/-0.007 $\chi^2$/NDF: 56.6/47




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 47.939+/-0.015 $\chi^2$/NDF:727374.6/6

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 44.405+/-0.014 $\chi^2$/NDF:201061.7/5

Left: 46.043+/-0.011 $\chi^2$/NDF: 956343.6/12

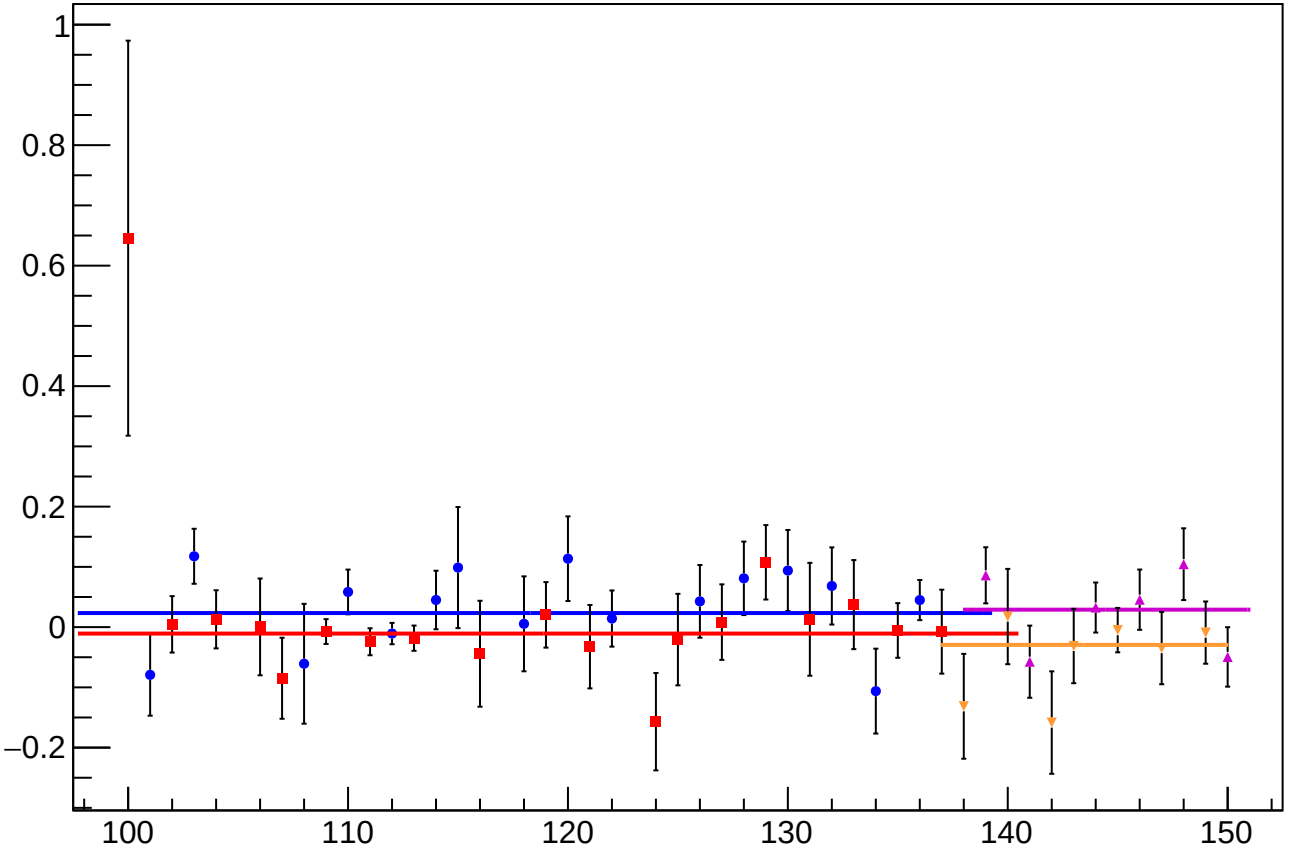
Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 29.684+/-0.007 $\chi^2$/NDF:4480536.6/21

Out: 26.800+/-0.006 $\chi^2$/NDF:6100320.2/25

All: 28.122+/-0.005 $\chi^2$/NDF: 10676104.5/47

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.029+/-0.022 $\chi^2$/NDF:4.6/6

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.029+/-0.020 $\chi^2$/NDF:7.8/5

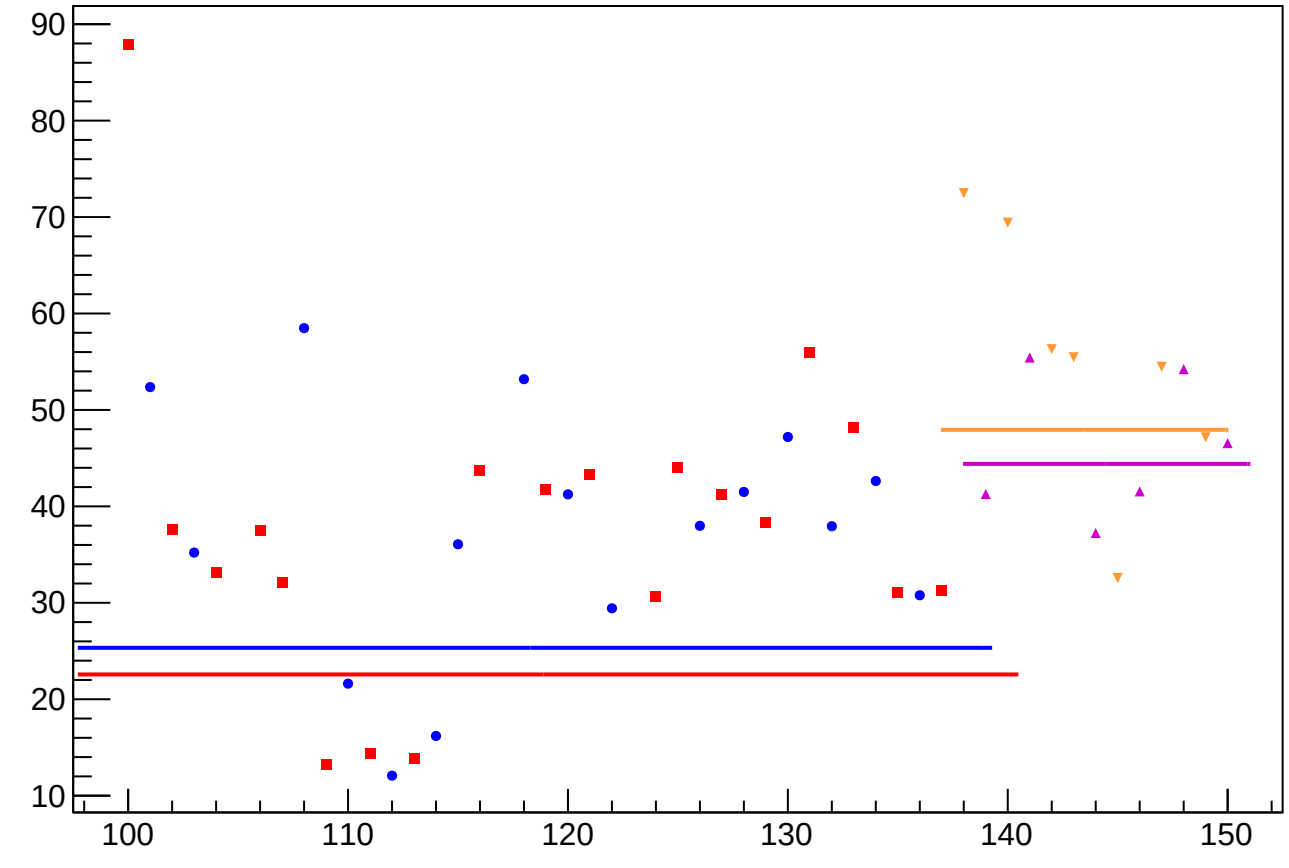
Left: 0.002+/-0.015 $\chi^2$/NDF: 16.3/12

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:28.6/21

Out: -0.014+/-0.009 $\chi^2$/NDF:19.5/25

All: 0.004+/-0.007 $\chi^2$/NDF: 56.6/47




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 47.939+/-0.015 $\chi^2$/NDF:727374.6/6

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 44.405+/-0.014 $\chi^2$/NDF:201061.7/5

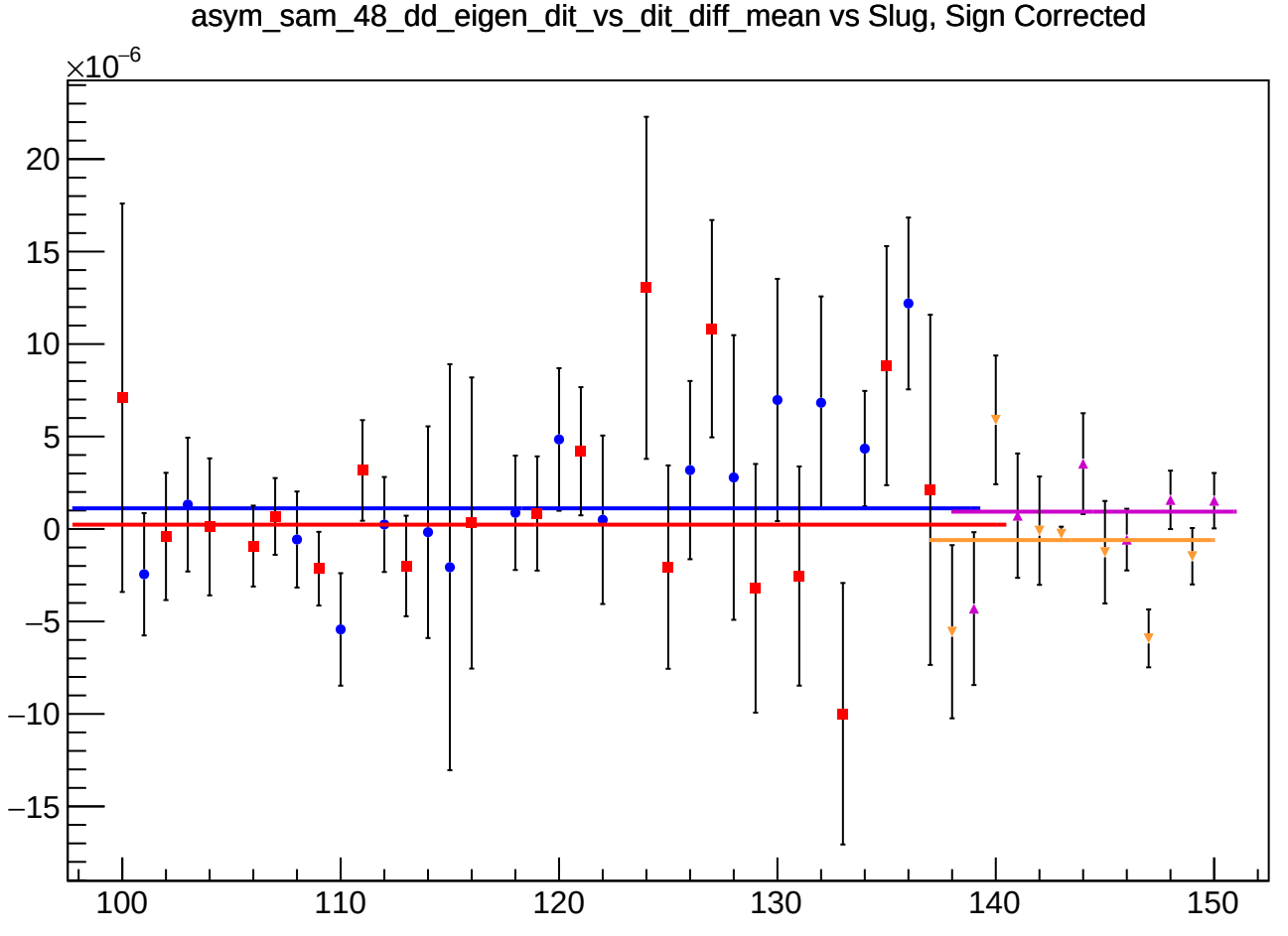
Left: 46.043+/-0.011 $\chi^2$/NDF: 956343.6/12

Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 29.684+/-0.007 $\chi^2$/NDF:4480536.6/21

Out: 26.800+/-0.006 $\chi^2$/NDF:6100320.2/25

All: 28.122+/-0.005 $\chi^2$/NDF: 10676104.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:17.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.7/5

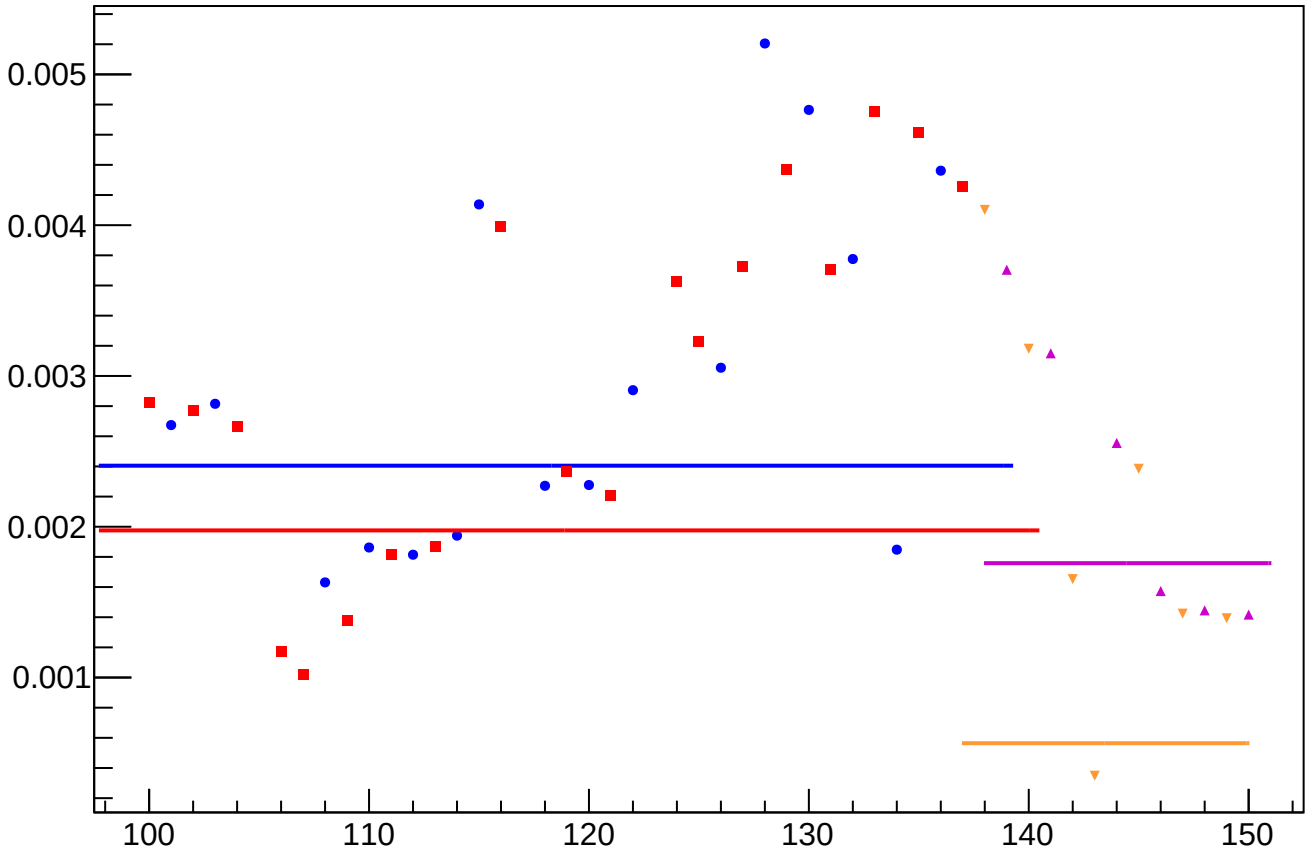
Left: -0.000+/-0.000 $\chi^2$/NDF: 23.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.9/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.7/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1571983.6/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:5228662.4/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2775363.3/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1164064.6/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 9965781.0/12

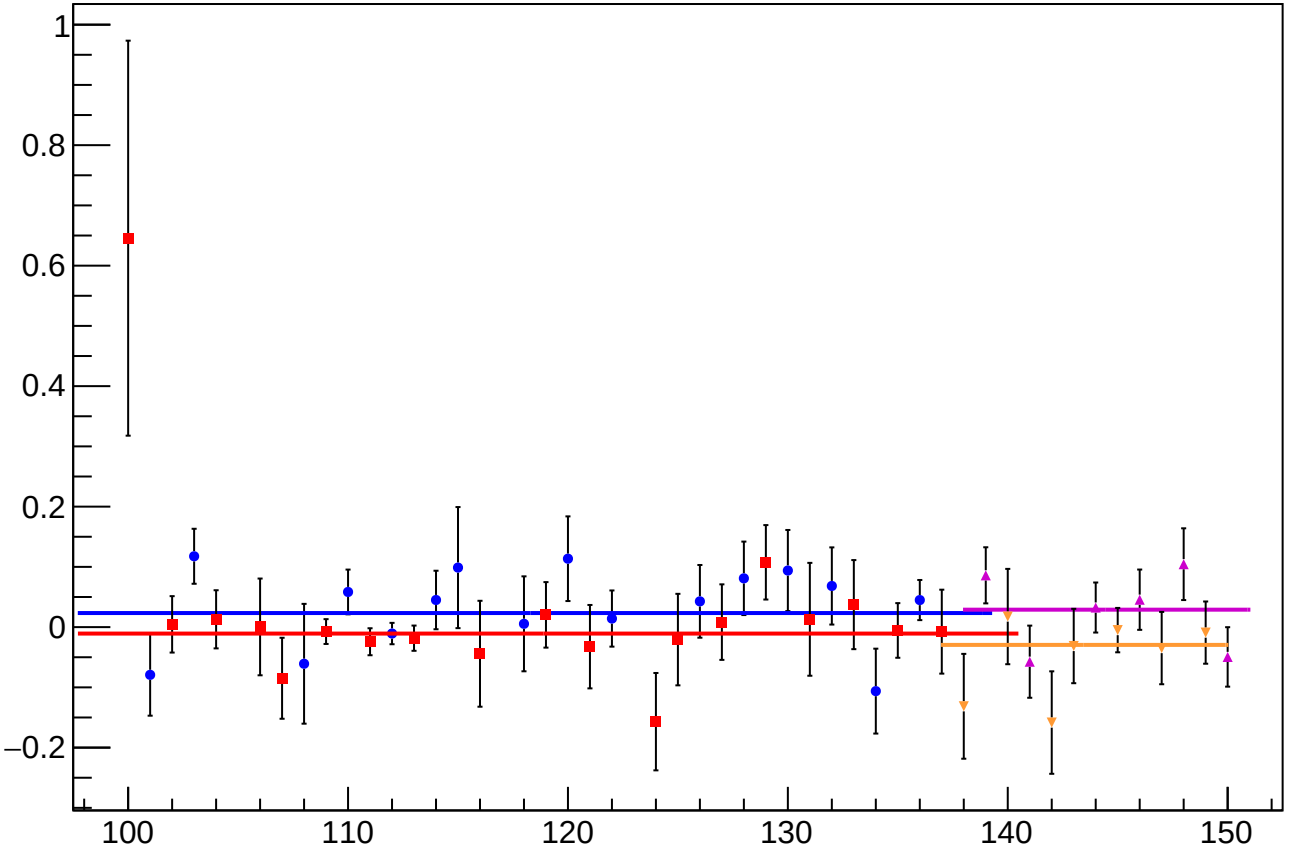
Right: 0.002+/-0.000 $\chi^2$/NDF: 4581712.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:3263713.3/21

Out: 0.001+/-0.000 $\chi^2$/NDF:13068506.8/25

All: 0.001+/-0.000 $\chi^2$/NDF: 22592980.6/47

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.029+/-0.022 $\chi^2$/NDF:4.6/6

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.029+/-0.020 $\chi^2$/NDF:7.8/5

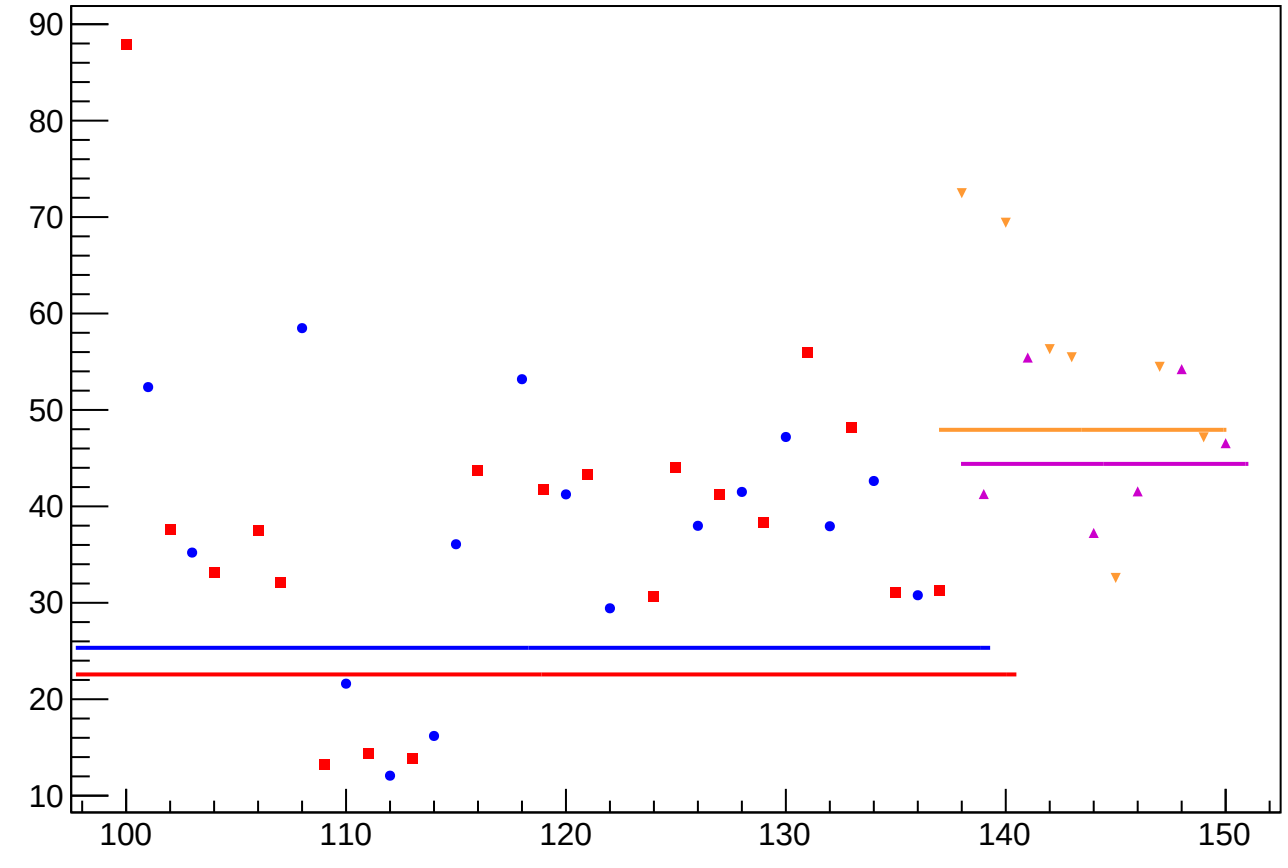
Left: 0.002+/-0.015 $\chi^2$/NDF: 16.3/12

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:28.6/21

Out: -0.014+/-0.009 $\chi^2$/NDF:19.5/25

All: 0.004+/-0.007 $\chi^2$/NDF: 56.6/47




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 47.939+/-0.015 $\chi^2$/NDF:727343.8/6

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 44.406+/-0.014 $\chi^2$/NDF:201049.2/5

Left: 46.043+/-0.011 $\chi^2$/NDF: 956301.1/12

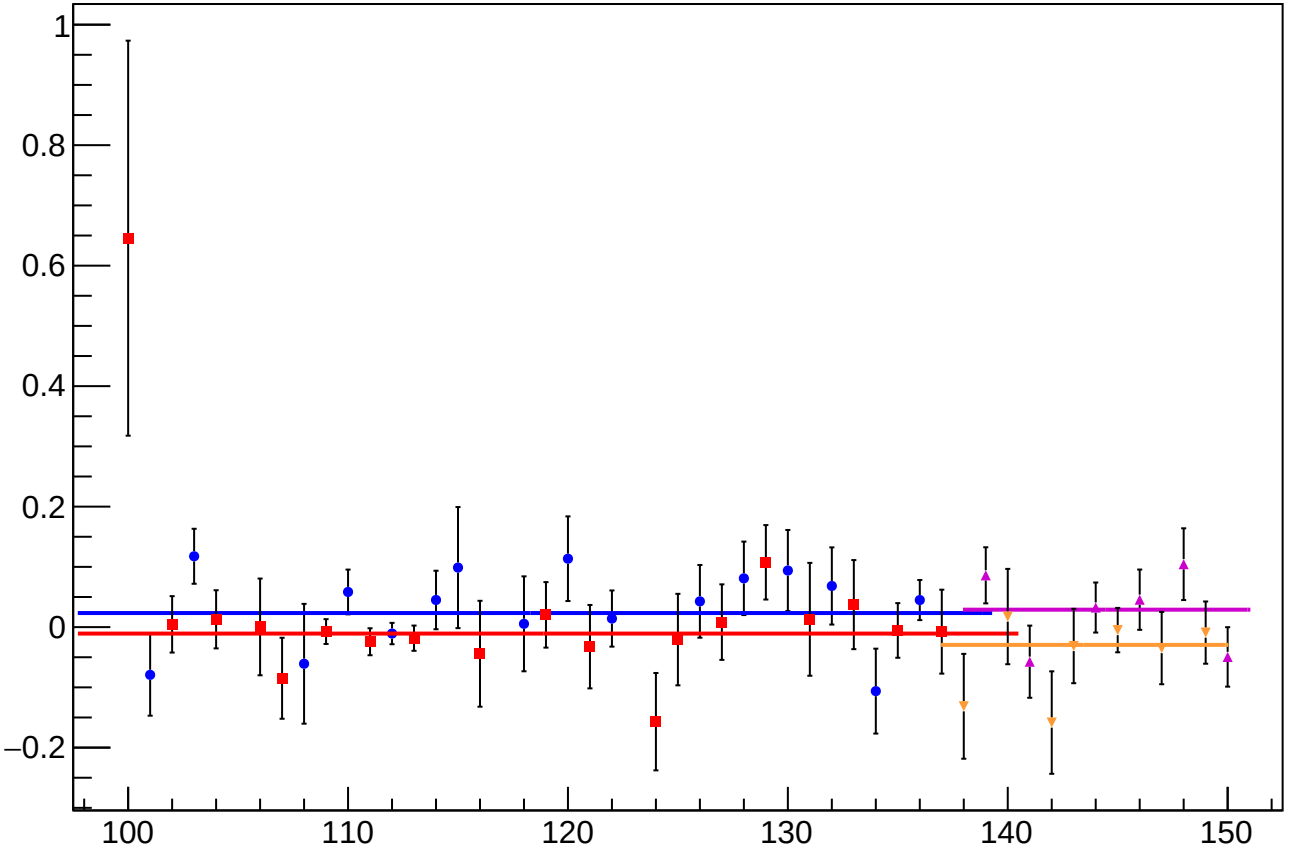
Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 29.683+/-0.007 $\chi^2$/NDF:4481176.2/21

Out: 26.800+/-0.006 $\chi^2$/NDF:6100532.8/25

All: 28.122+/-0.005 $\chi^2$/NDF: 10676900.5/47

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.029+/-0.022 $\chi^2$/NDF:4.6/6

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.029+/-0.020 $\chi^2$/NDF:7.8/5

Left: 0.002+/-0.015 $\chi^2$/NDF: 16.3/12

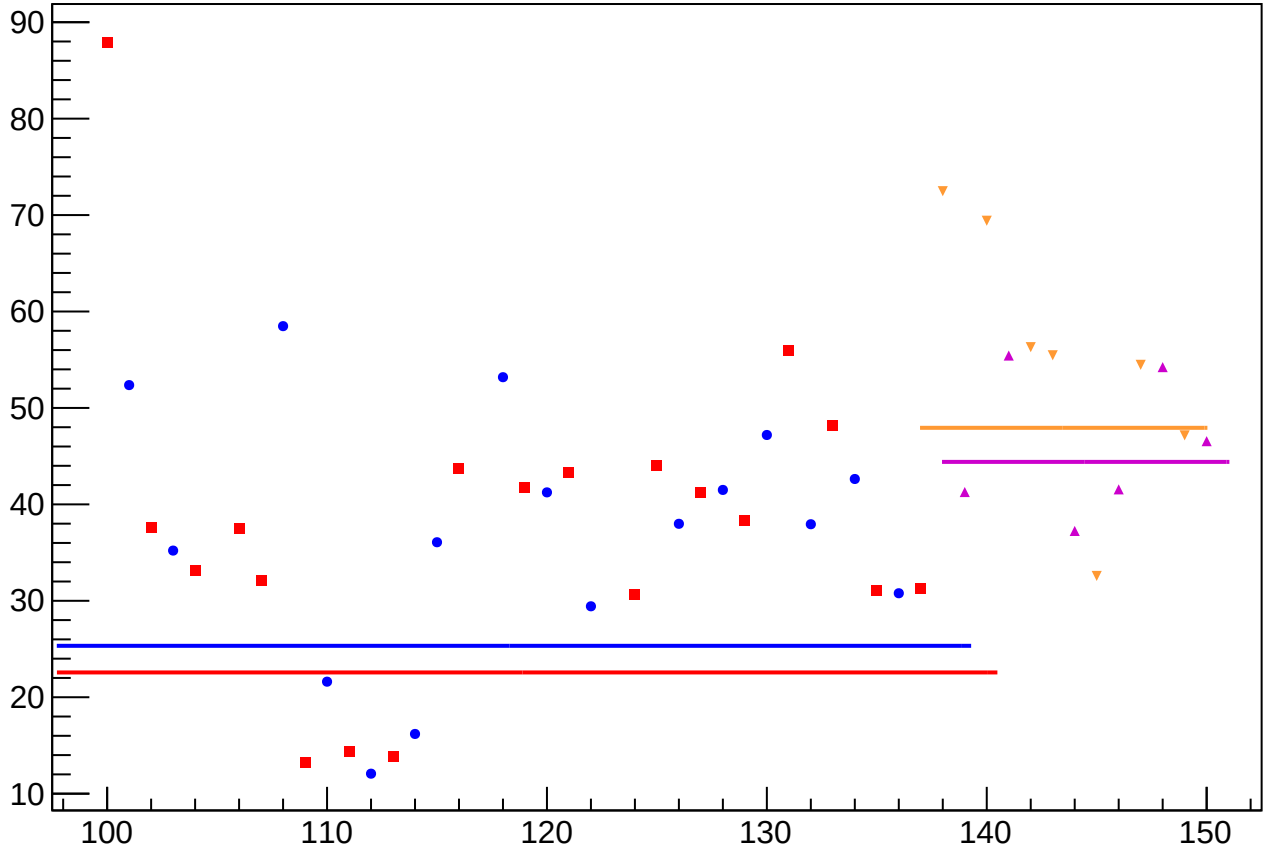
Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:28.6/21

Out: -0.014+/-0.009 $\chi^2$/NDF:19.5/25

All: 0.004+/-0.007 $\chi^2$/NDF: 56.6/47

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 47.939+/-0.015 $\chi^2$/NDF:727343.8/6

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 44.406+/-0.014 $\chi^2$/NDF:201049.2/5

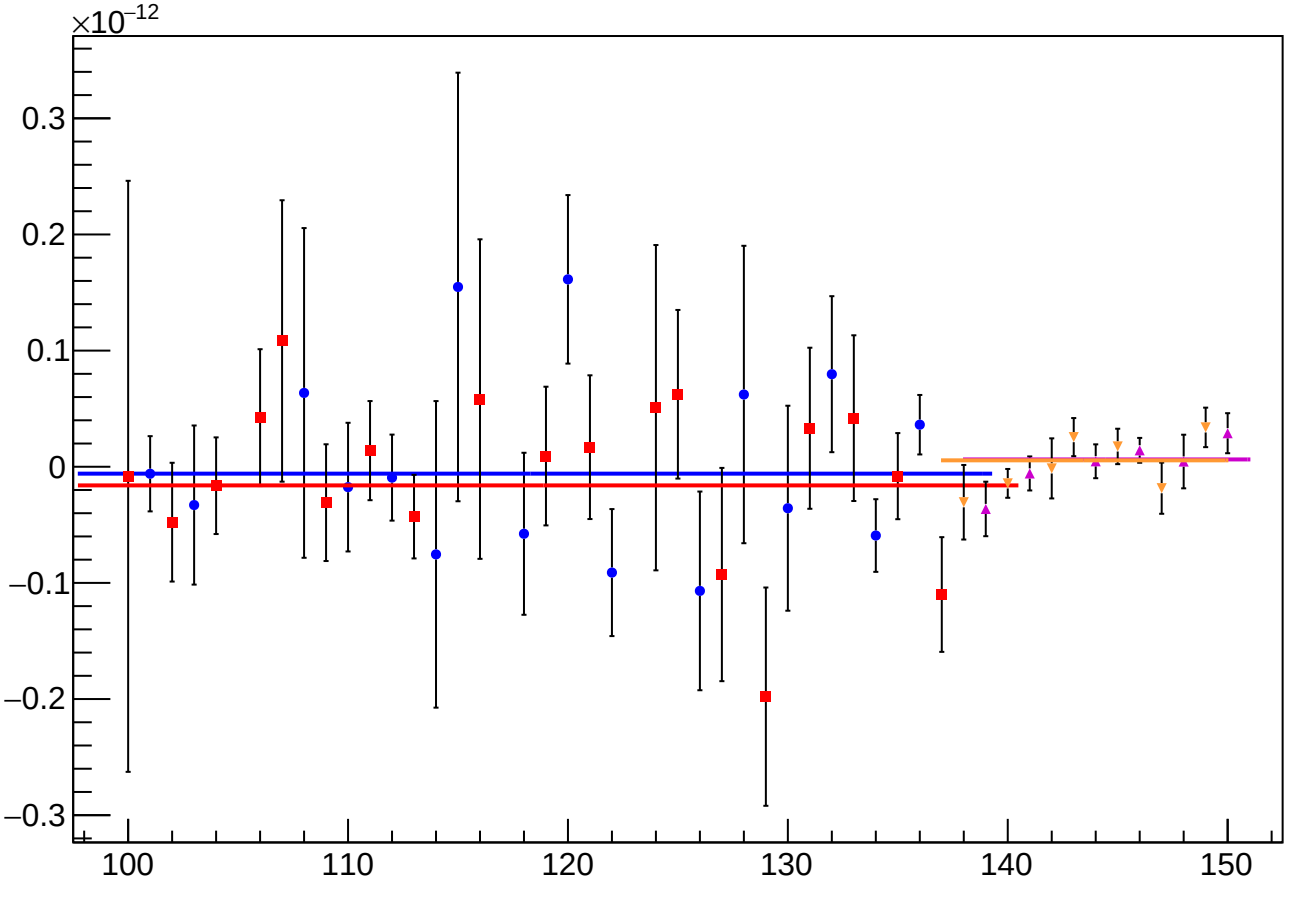
Left: 46.043+/-0.011 $\chi^2$/NDF: 956301.1/12

Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 29.683+/-0.007 $\chi^2$/NDF:4481176.2/21

Out: 26.800+/-0.006 $\chi^2$/NDF:6100532.8/25

All: 28.122+/-0.005 $\chi^2$/NDF: 10676900.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.3/5

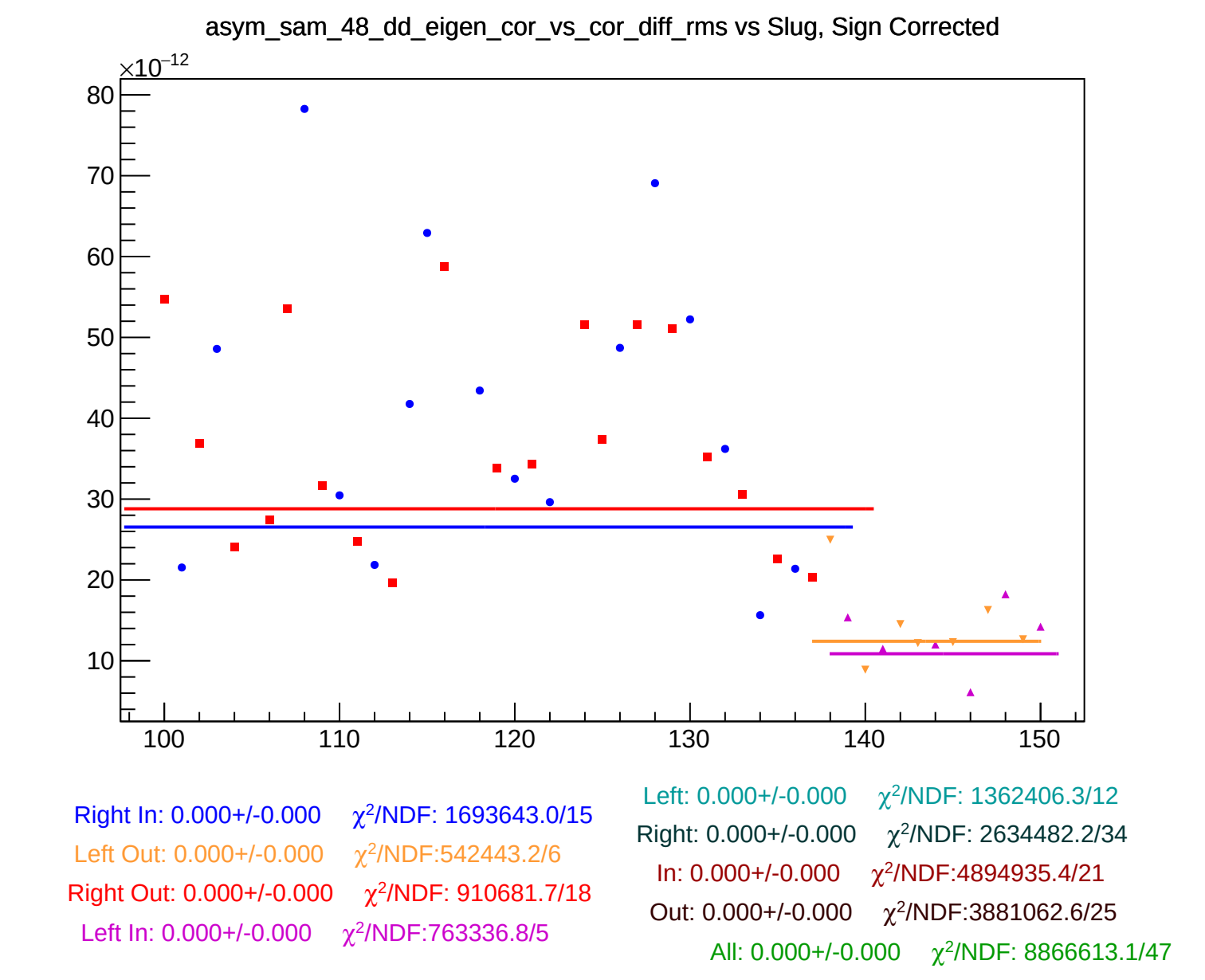
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.2/12

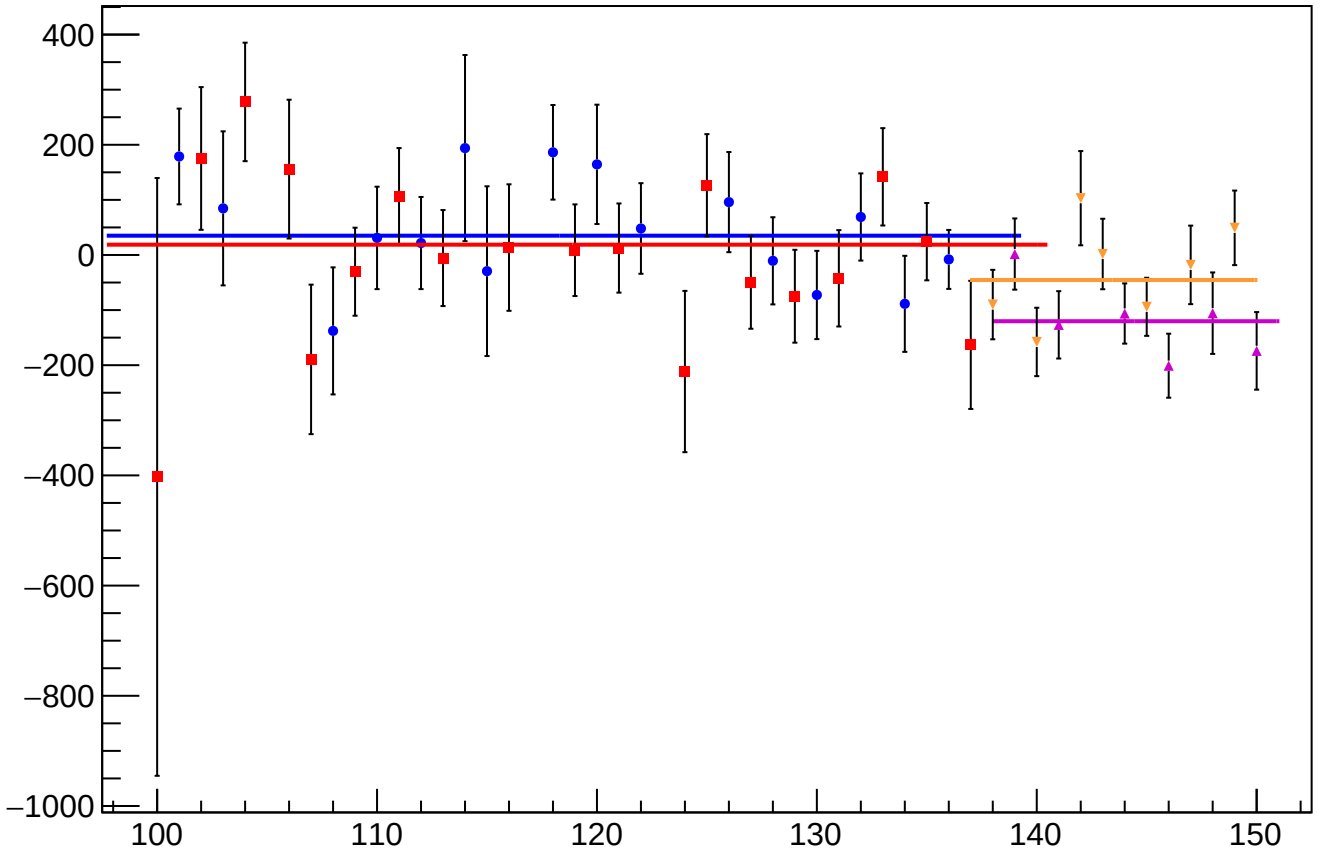
Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.0/47


asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1693643.0/15
Left Out: 0.000+/-0.000 χ²/NDF:542443.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 910681.7/18
Left In: 0.000+/-0.000 χ²/NDF:763336.8/5
Left: 0.000+/-0.000 χ²/NDF: 1362406.3/12
Right: 0.000+/-0.000 χ²/NDF: 2634482.2/34
In: 0.000+/-0.000 χ²/NDF:4894935.4/21
Out: 0.000+/-0.000 χ²/NDF:3881062.6/25
All: 0.000+/-0.000 χ²/NDF: 8866613.1/47




Right In: 35.018+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -45.407+/-24.487 $\chi^2$/NDF:10.3/6

Right Out: 18.690+/-22.137 $\chi^2$/NDF: 23.5/18

Left In: -120.204+/-25.621 $\chi^2$/NDF:6.2/5

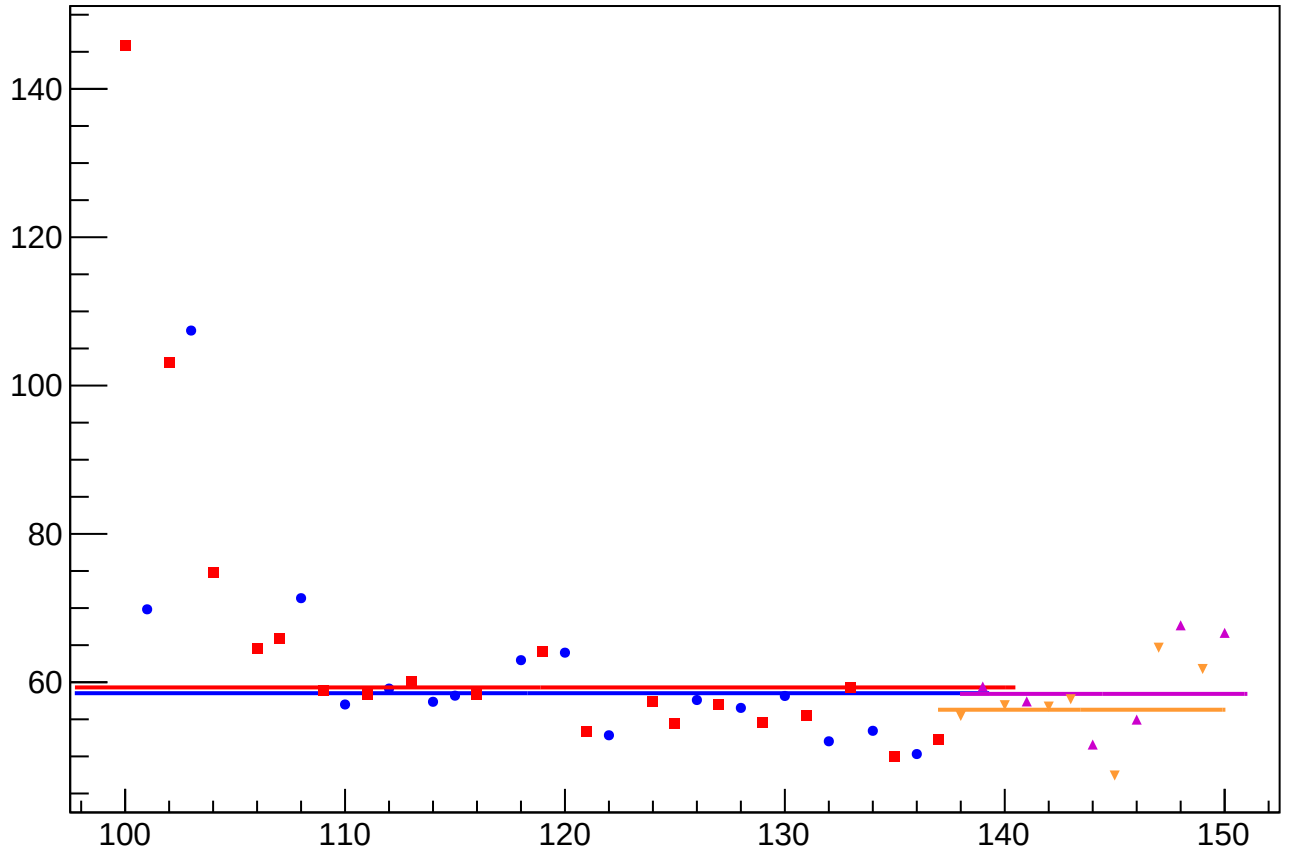
Left: -81.113+/-17.702 $\chi^2$/NDF: 20.9/12

Right: 26.855+/-15.652 $\chi^2$/NDF: 40.0/34

In: -31.320+/-16.750 $\chi^2$/NDF:43.4/21

Out: -10.136+/-16.421 $\chi^2$/NDF:37.6/25

All: -20.518+/-11.726 $\chi^2$/NDF: 81.8/47




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392742.4/15

Left Out: 56.294+/-0.017 $\chi^2$/NDF:98920.2/6

Right Out: 59.301+/-0.016 $\chi^2$/NDF: 406611.5/18

Left In: 58.431+/-0.018 $\chi^2$/NDF:98022.6/5

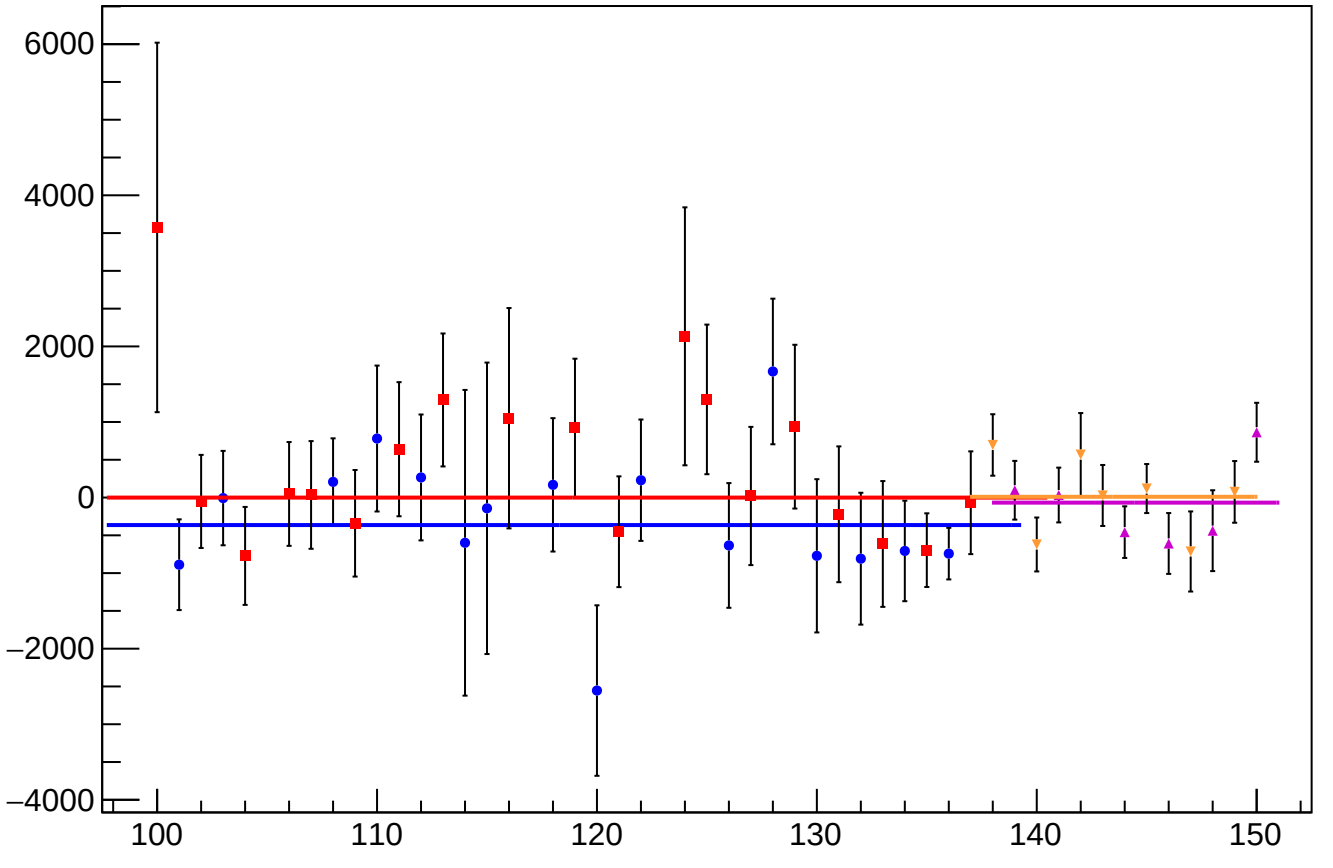
Left: 57.314+/-0.013 $\chi^2$/NDF: 204214.3/12

Right: 58.911+/-0.011 $\chi^2$/NDF: 800594.3/34

In: 58.483+/-0.012 $\chi^2$/NDF:490779.5/21

Out: 57.949+/-0.012 $\chi^2$/NDF:522135.6/25

All: 58.210+/-0.008 $\chi^2$/NDF: 1013952.0/47




Right In: -364.076+/-180.601 $\chi^2$/NDF: 15.2/15

Left Out: 9.922+/-153.559 $\chi^2$/NDF:9.0/6

Right Out: -0.570+/-183.085 $\chi^2$/NDF: 15.1/18

Left In: -67.382+/-160.065 $\chi^2$/NDF:9.5/5

Left: -27.127+/-110.811 $\chi^2$/NDF: 18.7/12

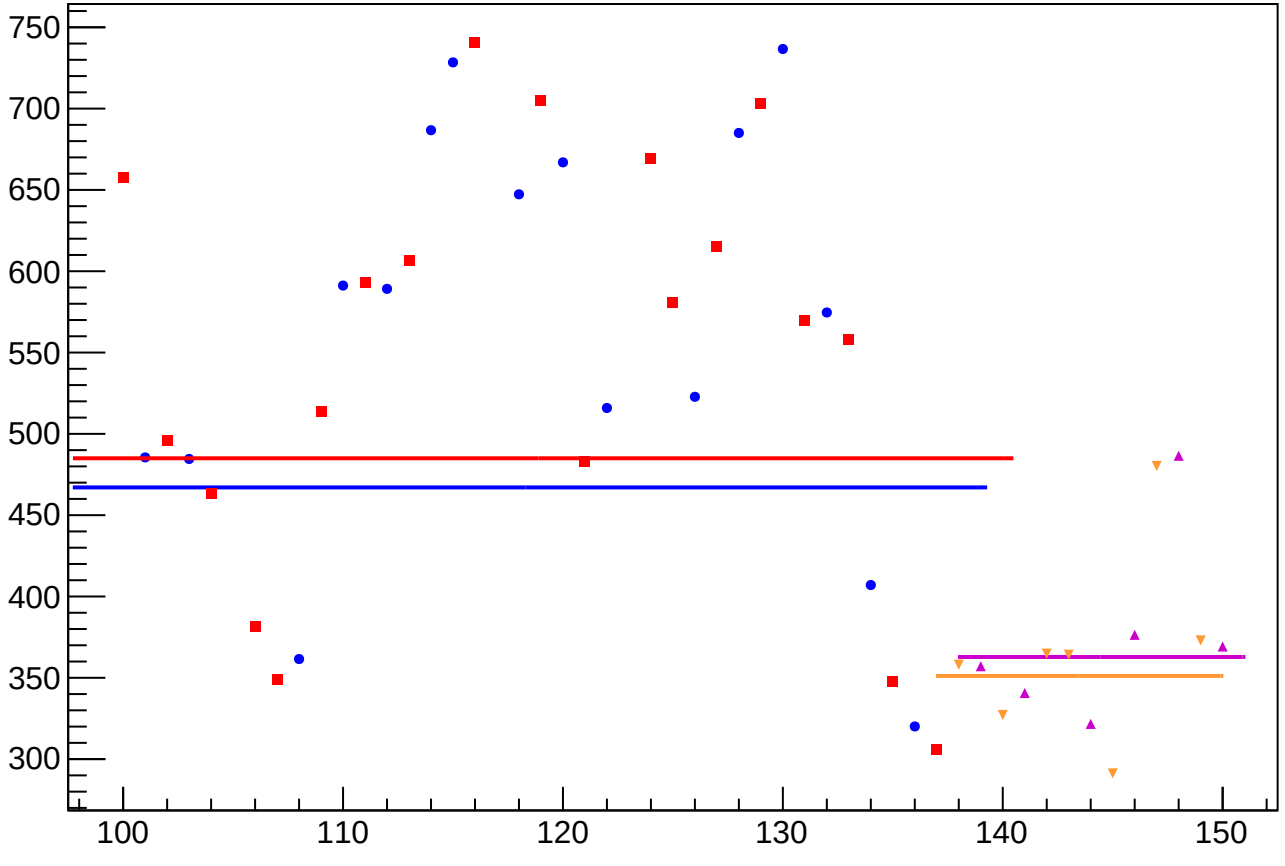
Right: -184.806+/-128.573 $\chi^2$/NDF: 32.3/34

In: -197.909+/-119.788 $\chi^2$/NDF:26.3/21

Out: 5.590+/-117.654 $\chi^2$/NDF:24.1/25

All: -94.331+/-83.939 $\chi^2$/NDF: 51.8/47

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 467.068+/-0.128 $\chi^2$/NDF: 1030279.0/15

Left Out: 351.149+/-0.109 $\chi^2$/NDF:205637.9/6

Right Out: 484.982+/-0.129 $\chi^2$/NDF: 874102.2/18

Left In: 362.812+/-0.113 $\chi^2$/NDF:146662.0/5

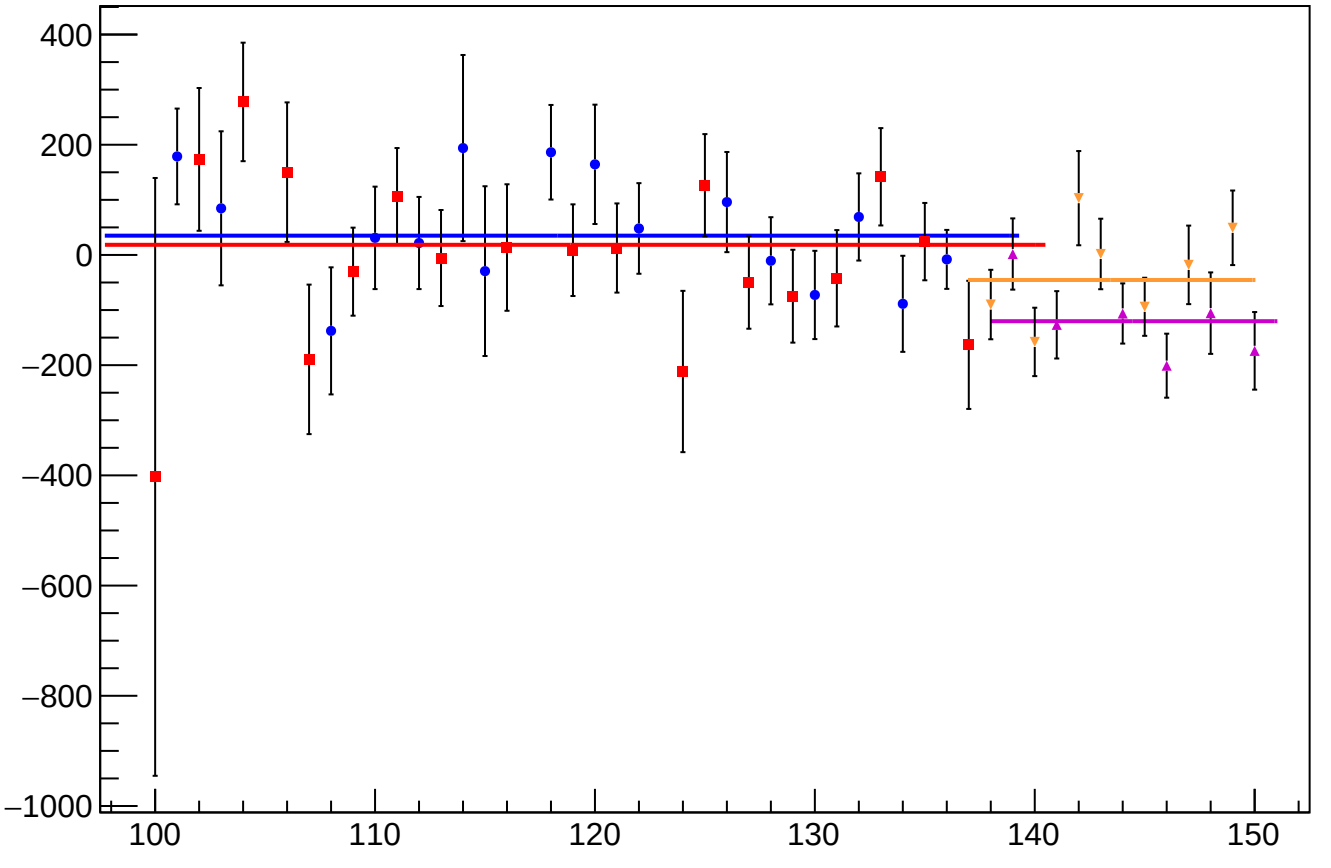
Left: 356.739+/-0.078 $\chi^2$/NDF: 357829.7/12

Right: 475.902+/-0.091 $\chi^2$/NDF: 1914085.4/34

In: 408.678+/-0.085 $\chi^2$/NDF:1550212.5/21

Out: 406.417+/-0.083 $\chi^2$/NDF:1707096.6/25

All: 407.527+/-0.059 $\chi^2$/NDF: 3257672.0/47




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -45.408+/-24.487 $\chi^2$/NDF:10.3/6

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -120.205+/-25.621 $\chi^2$/NDF:6.2/5

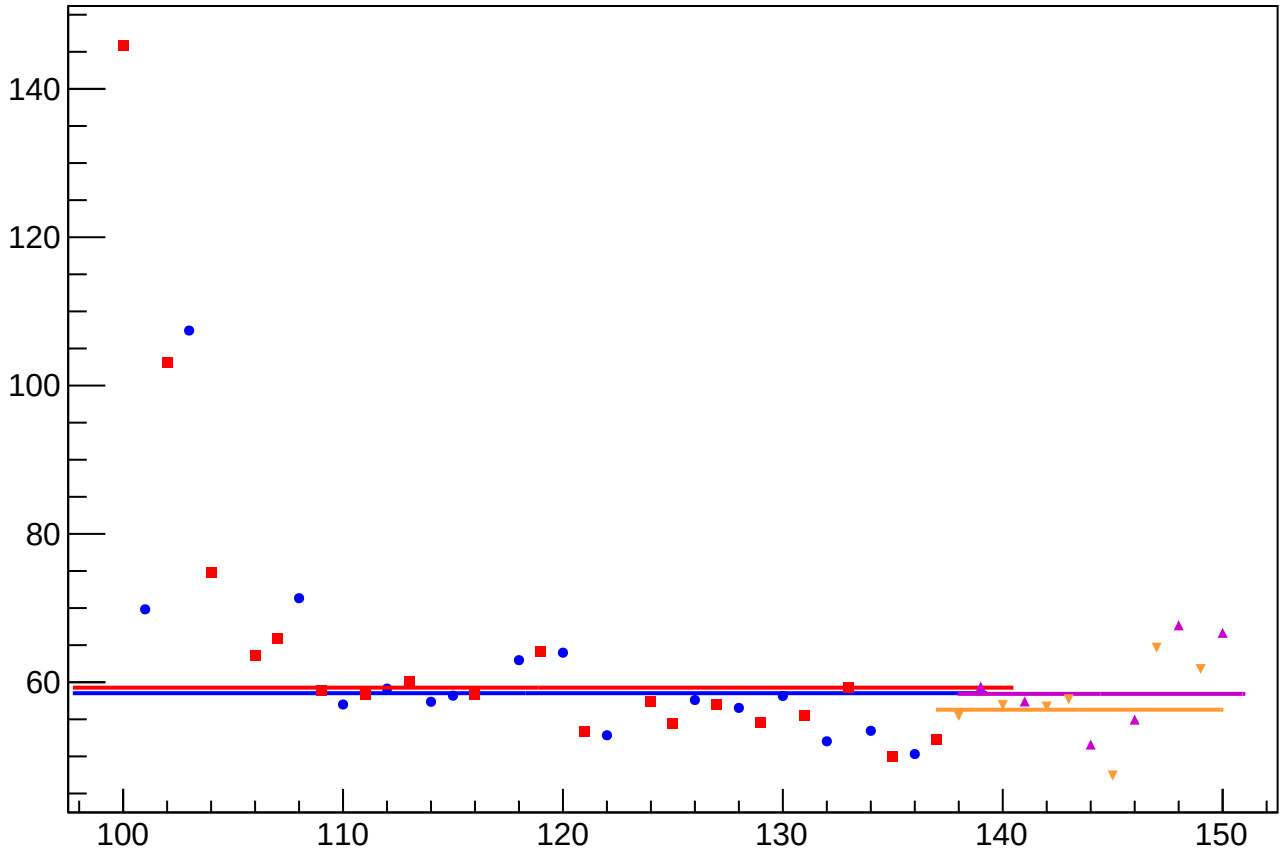
Left: -81.114+/-17.702 $\chi^2$/NDF: 20.9/12

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: -31.321+/-16.750 $\chi^2$/NDF:43.4/21

Out: -10.293+/-16.423 $\chi^2$/NDF:37.4/25

All: -20.600+/-11.727 $\chi^2$/NDF: 81.6/47




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 56.294+/-0.017 $\chi^2$/NDF:98920.2/6

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 58.431+/-0.018 $\chi^2$/NDF:98022.6/5

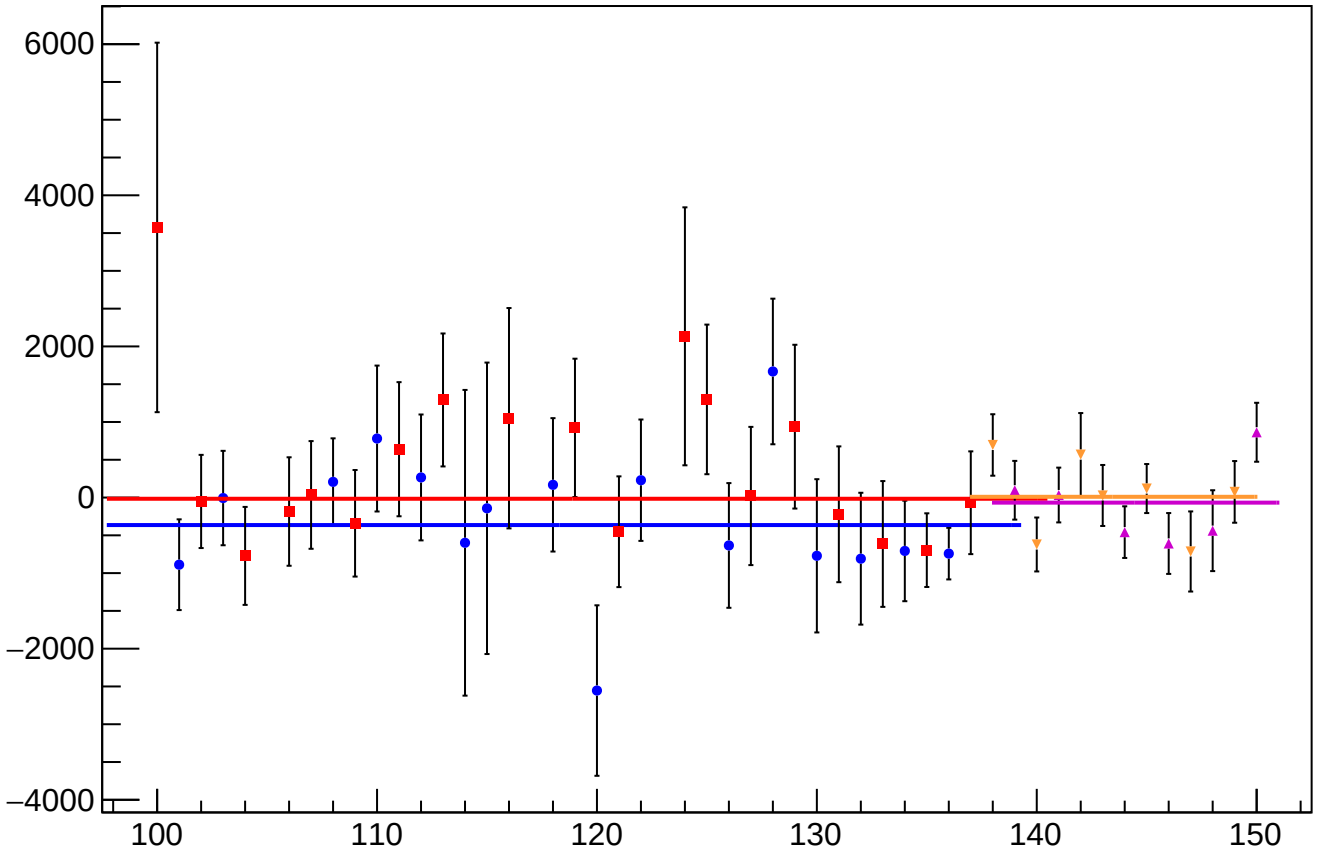
Left: 57.314+/-0.013 $\chi^2$/NDF: 204214.3/12

Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 58.483+/-0.012 $\chi^2$/NDF:490781.5/21

Out: 57.931+/-0.012 $\chi^2$/NDF:520788.2/25

All: 58.201+/-0.008 $\chi^2$/NDF: 1012676.7/47




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: 9.918+/-153.559 $\chi^2$/NDF:9.0/6

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: -67.379+/-160.065 $\chi^2$/NDF:9.5/5

Left: -27.127+/-110.811 $\chi^2$/NDF: 18.7/12

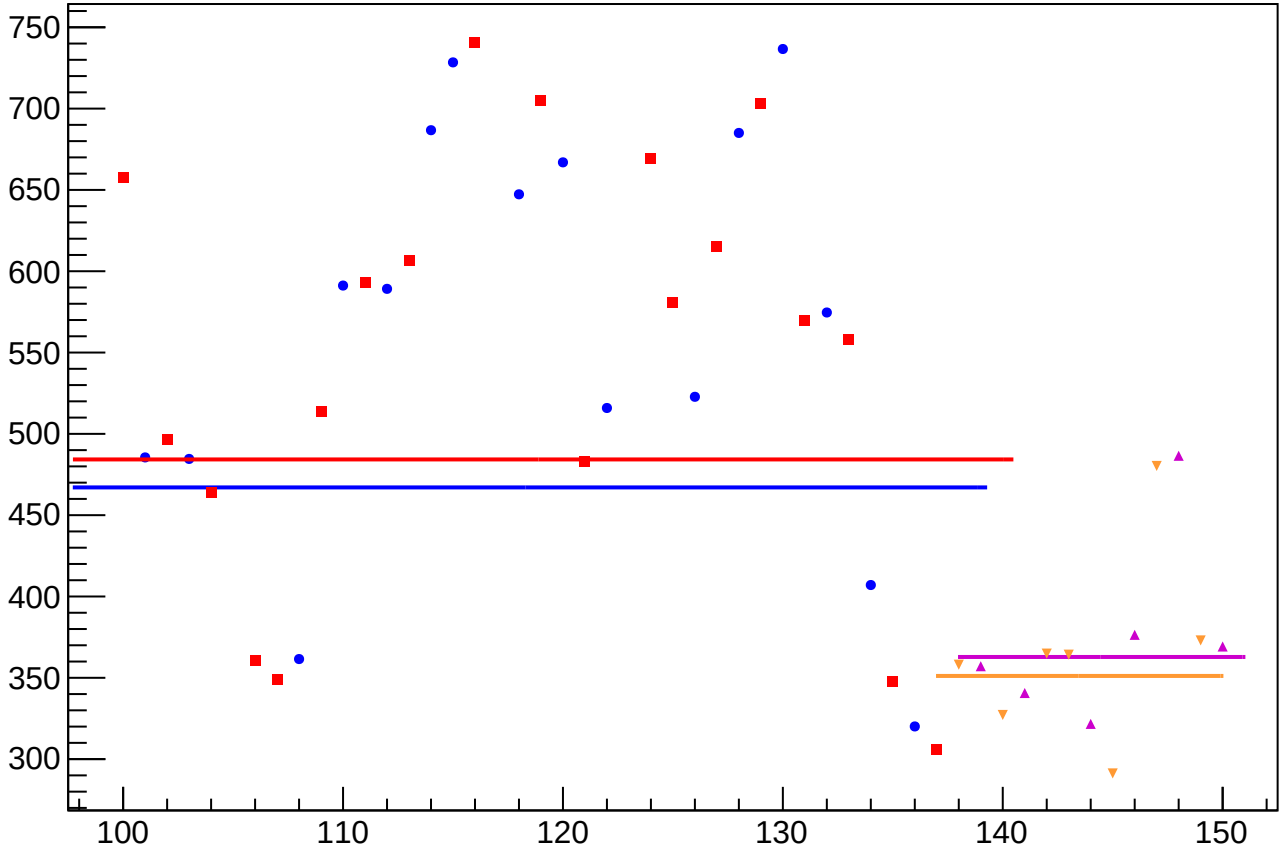
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -197.891+/-119.789 $\chi^2$/NDF:26.3/21

Out: -0.782+/-117.804 $\chi^2$/NDF:24.2/25

All: -97.690+/-83.993 $\chi^2$/NDF: 51.8/47

asym_sam_13_57_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 467.071+/-0.128 $\chi^2$/NDF: 1030281.3/15

Left Out: 351.149+/-0.109 $\chi^2$/NDF:205638.6/6

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 362.813+/-0.113 $\chi^2$/NDF:146661.6/5

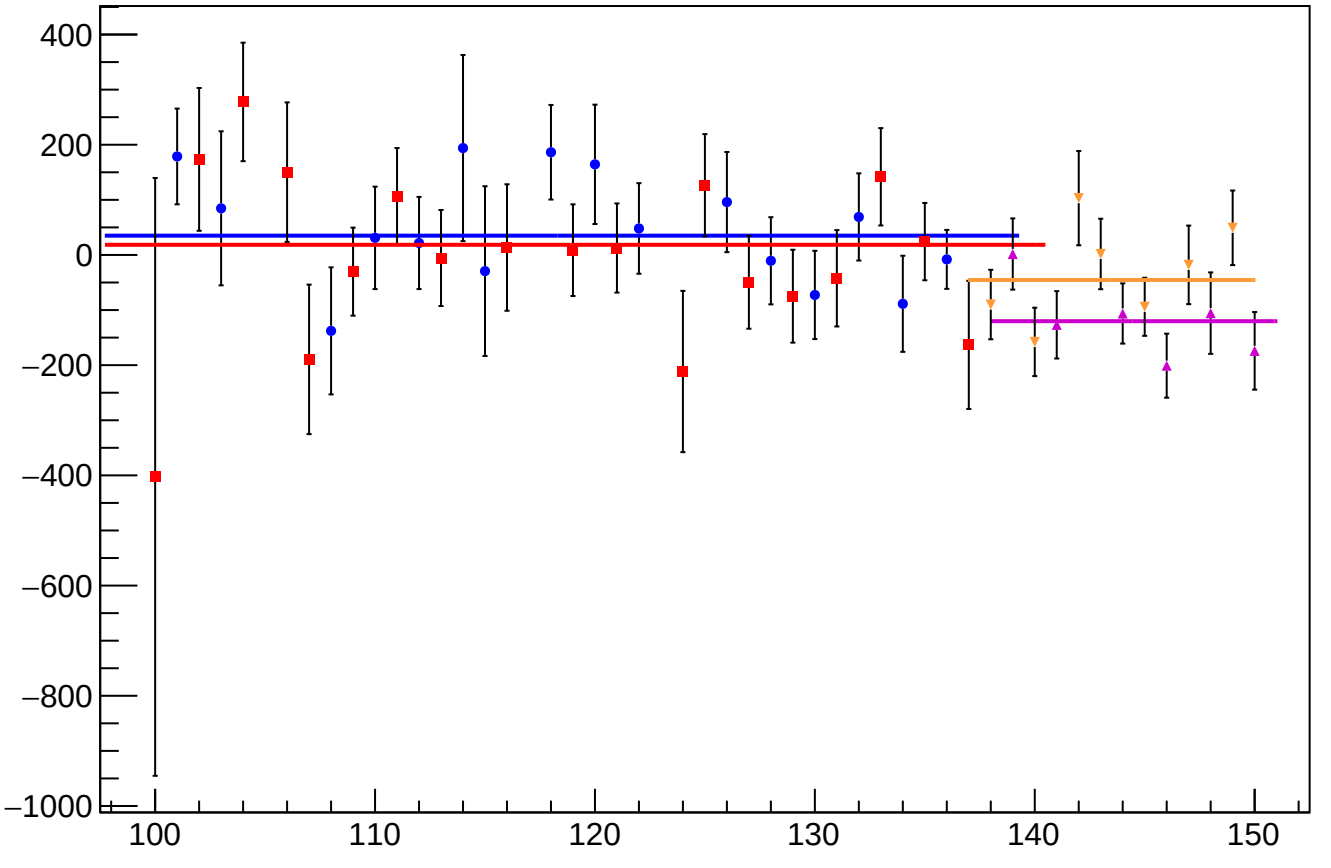
Left: 356.739+/-0.078 $\chi^2$/NDF: 357830.4/12

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 408.679+/-0.085 $\chi^2$/NDF:1550228.8/21

Out: 405.925+/-0.083 $\chi^2$/NDF:1712928.0/25

All: 407.279+/-0.059 $\chi^2$/NDF: 3263694.2/47




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -45.408+/-24.487 $\chi^2$/NDF:10.3/6

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -120.205+/-25.621 $\chi^2$/NDF:6.2/5

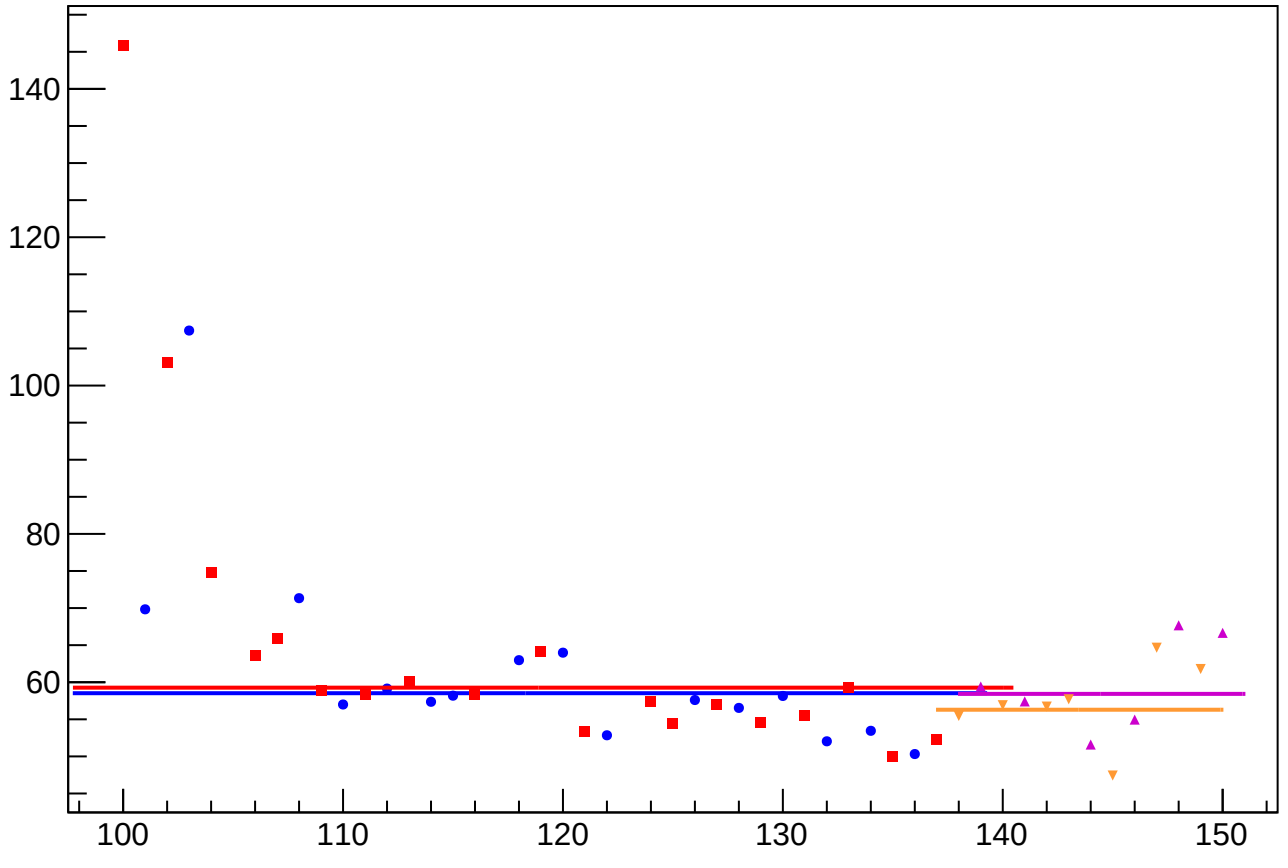
Left: -81.114+/-17.702 $\chi^2$/NDF: 20.9/12

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: -31.321+/-16.750 $\chi^2$/NDF:43.4/21

Out: -10.293+/-16.423 $\chi^2$/NDF:37.4/25

All: -20.600+/-11.727 $\chi^2$/NDF: 81.6/47




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 56.294+/-0.017 $\chi^2$/NDF:98920.2/6

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 58.431+/-0.018 $\chi^2$/NDF:98022.6/5

Left: 57.314+/-0.013 $\chi^2$/NDF: 204214.3/12

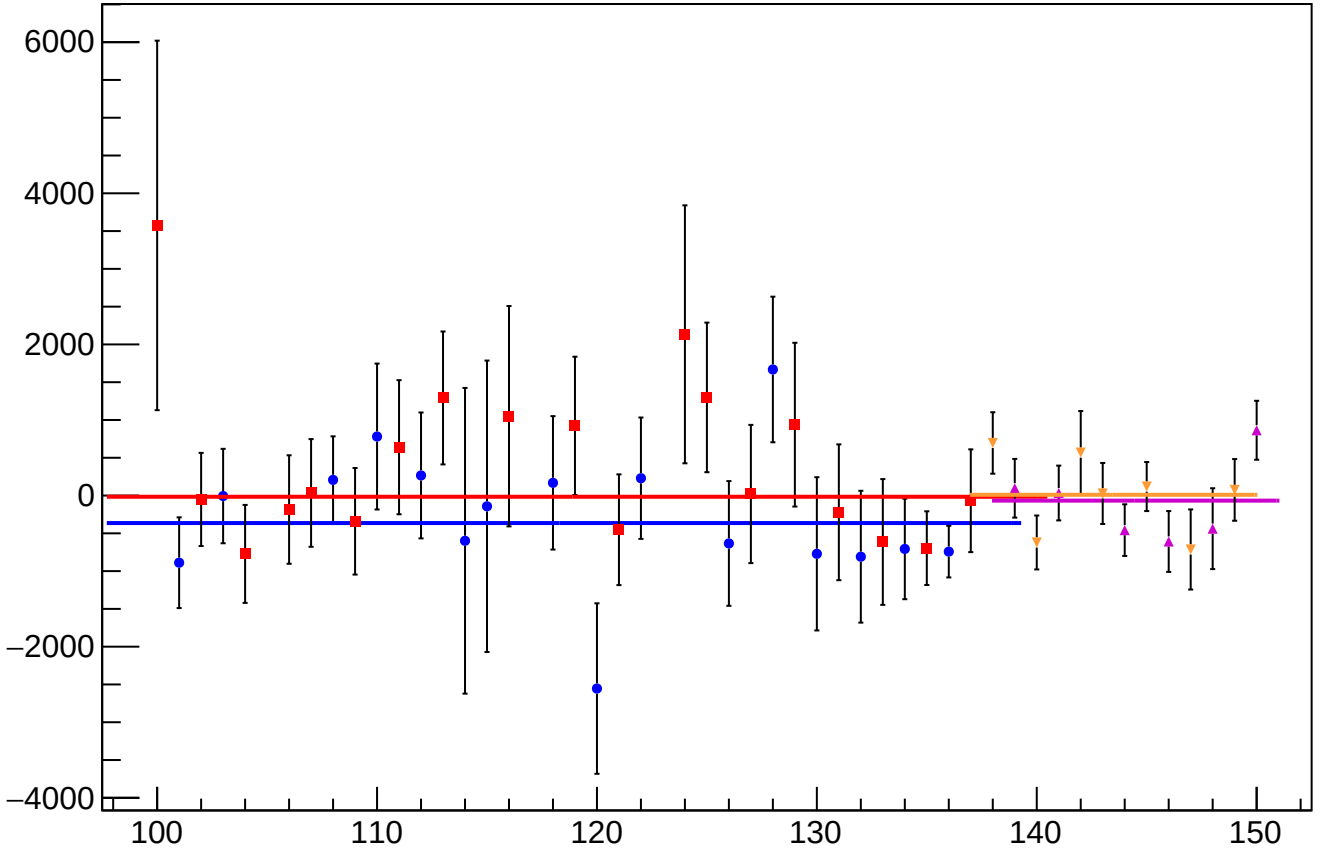
Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 58.483+/-0.012 $\chi^2$/NDF:490781.5/21

Out: 57.931+/-0.012 $\chi^2$/NDF:520788.2/25

All: 58.201+/-0.008 $\chi^2$/NDF: 1012676.7/47

asym_sam_13_57_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: 9.918+/-153.559 $\chi^2$/NDF:9.0/6

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: -67.379+/-160.065 $\chi^2$/NDF:9.5/5

Left: -27.127+/-110.811 $\chi^2$/NDF: 18.7/12

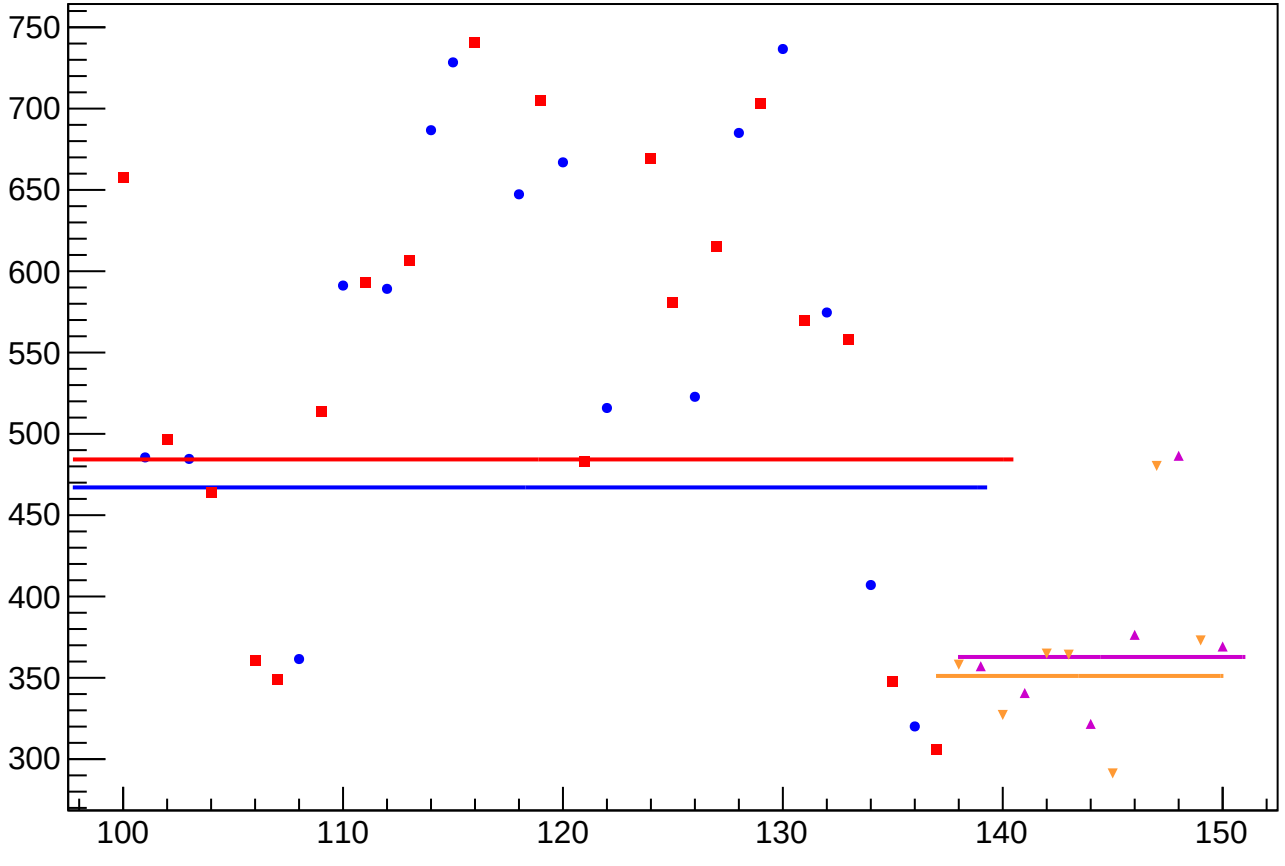
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -197.891+/-119.789 $\chi^2$/NDF:26.3/21

Out: -0.782+/-117.804 $\chi^2$/NDF:24.2/25

All: -97.690+/-83.993 $\chi^2$/NDF: 51.8/47

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 467.071+/-0.128 $\chi^2$/NDF: 1030281.3/15

Left Out: 351.149+/-0.109 $\chi^2$/NDF:205638.6/6

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 362.813+/-0.113 $\chi^2$/NDF:146661.6/5

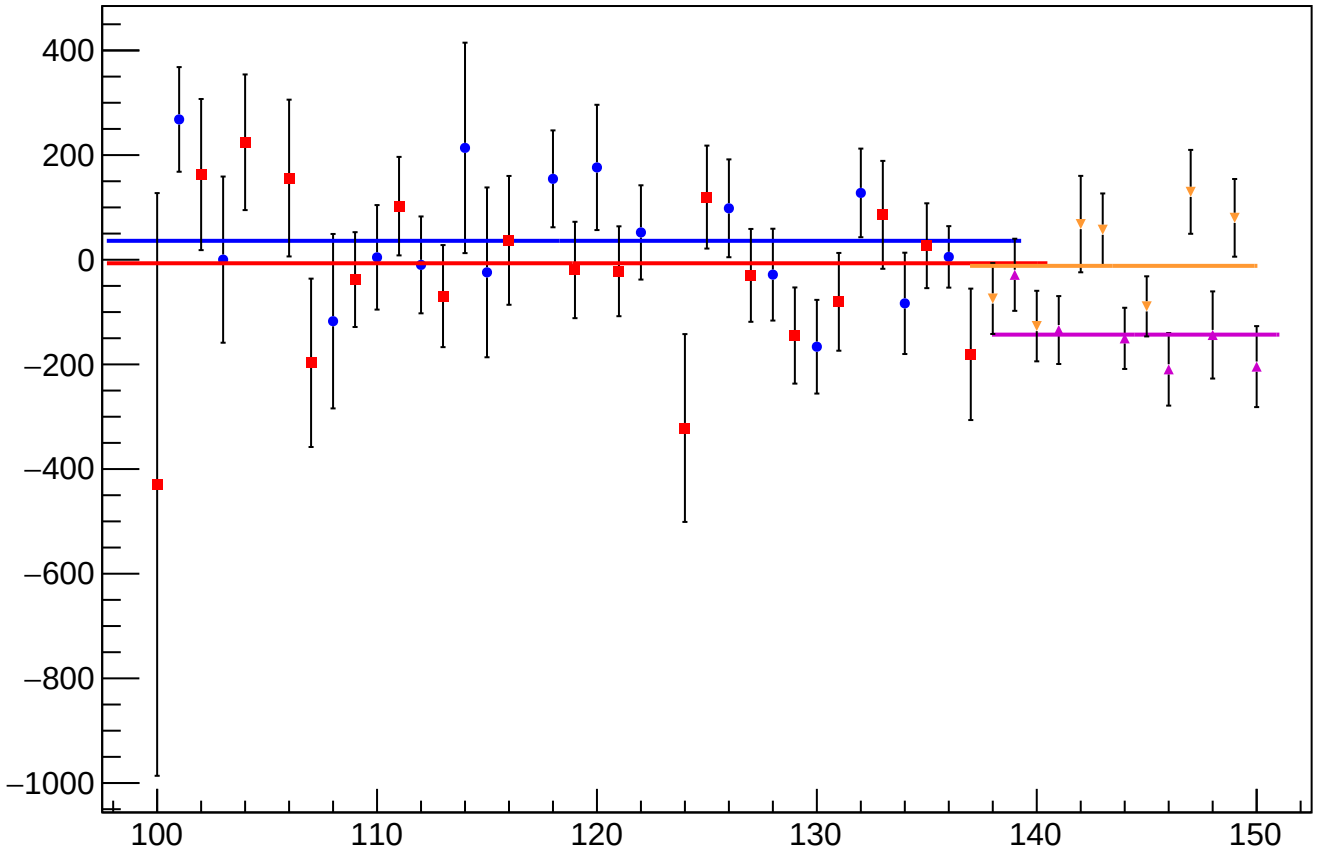
Left: 356.739+/-0.078 $\chi^2$/NDF: 357830.4/12

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 408.679+/-0.085 $\chi^2$/NDF:1550228.8/21

Out: 405.925+/-0.083 $\chi^2$/NDF:1712928.0/25

All: 407.279+/-0.059 $\chi^2$/NDF: 3263694.2/47




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -11.679+/-26.686 $\chi^2$/NDF:12.0/6

Right Out: -6.734+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -143.105+/-28.178 $\chi^2$/NDF:4.3/5

Left: -73.820+/-19.376 $\chi^2$/NDF: 27.8/12

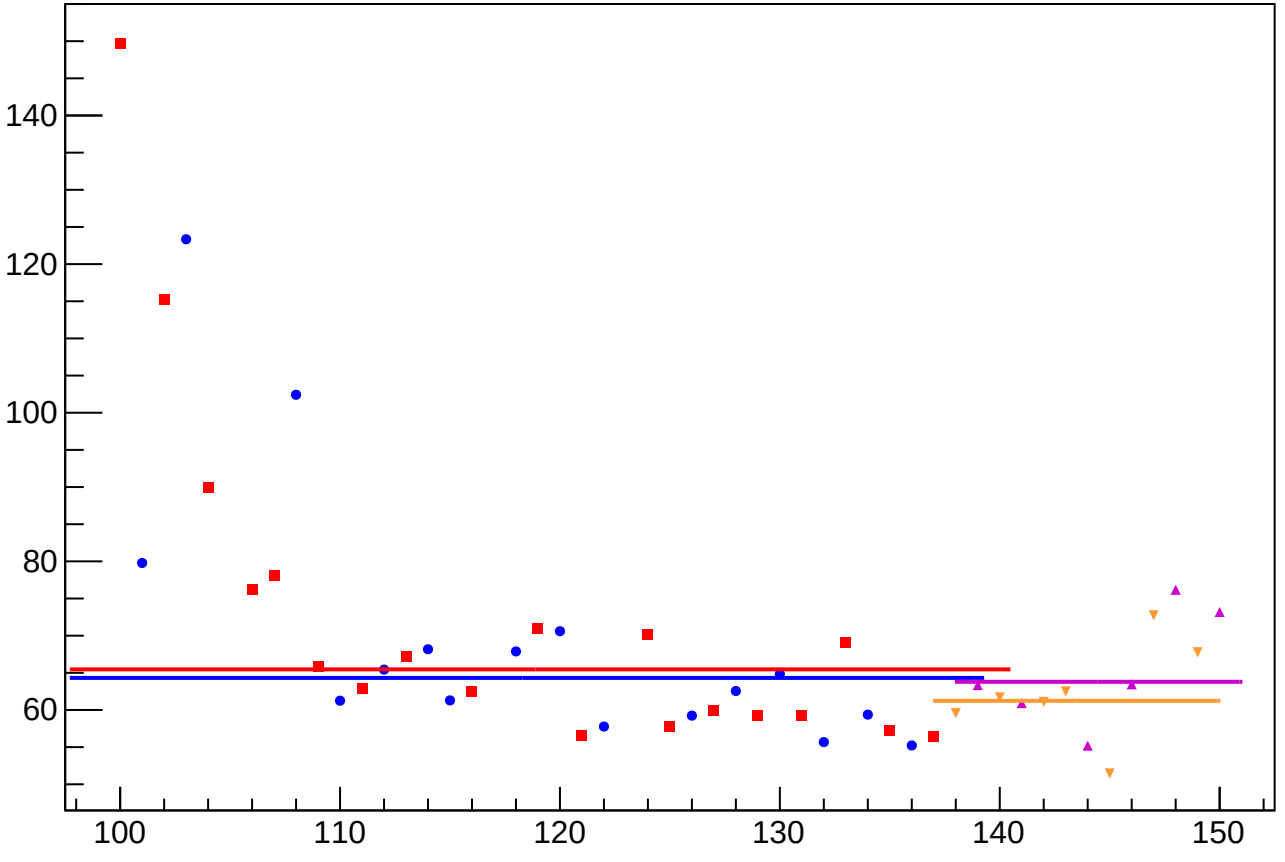
Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -40.916+/-18.476 $\chi^2$/NDF:47.0/21

Out: -9.002+/-18.073 $\chi^2$/NDF:32.3/25

All: -24.607+/-12.920 $\chi^2$/NDF: 80.9/47

# dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532065.0/15

Left Out: 61.233+/-0.019 $\chi^2$/NDF:116666.6/6

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482361.0/18

Left In: 63.793+/-0.020 $\chi^2$/NDF:120945.3/5

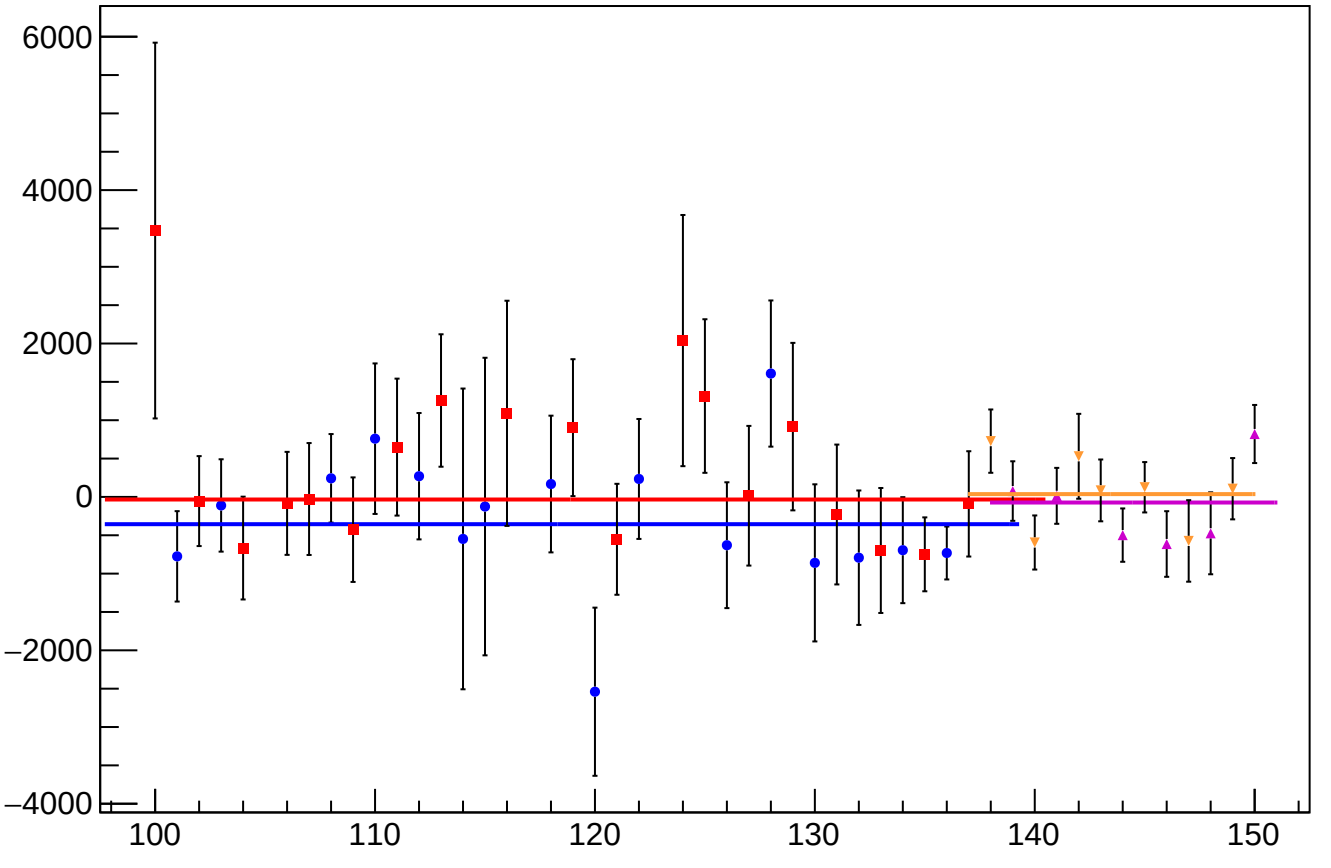
Left: 62.444+/-0.014 $\chi^2$/NDF: 246314.3/12

Right: 64.889+/-0.012 $\chi^2$/NDF: 1016625.1/34

In: 64.091+/-0.013 $\chi^2$/NDF:653403.4/21

Out: 63.524+/-0.013 $\chi^2$/NDF:626268.0/25

All: 63.802+/-0.009 $\chi^2$/NDF: 1280633.5/47




Right In: -355.529+/-180.335 $\chi^2$/NDF: 14.8/15

Left Out: 36.591+/-153.542 $\chi^2$/NDF:8.2/6

Right Out: -33.786+/-181.561 $\chi^2$/NDF: 15.4/18

Left In: -73.120+/-161.446 $\chi^2$/NDF:9.4/5

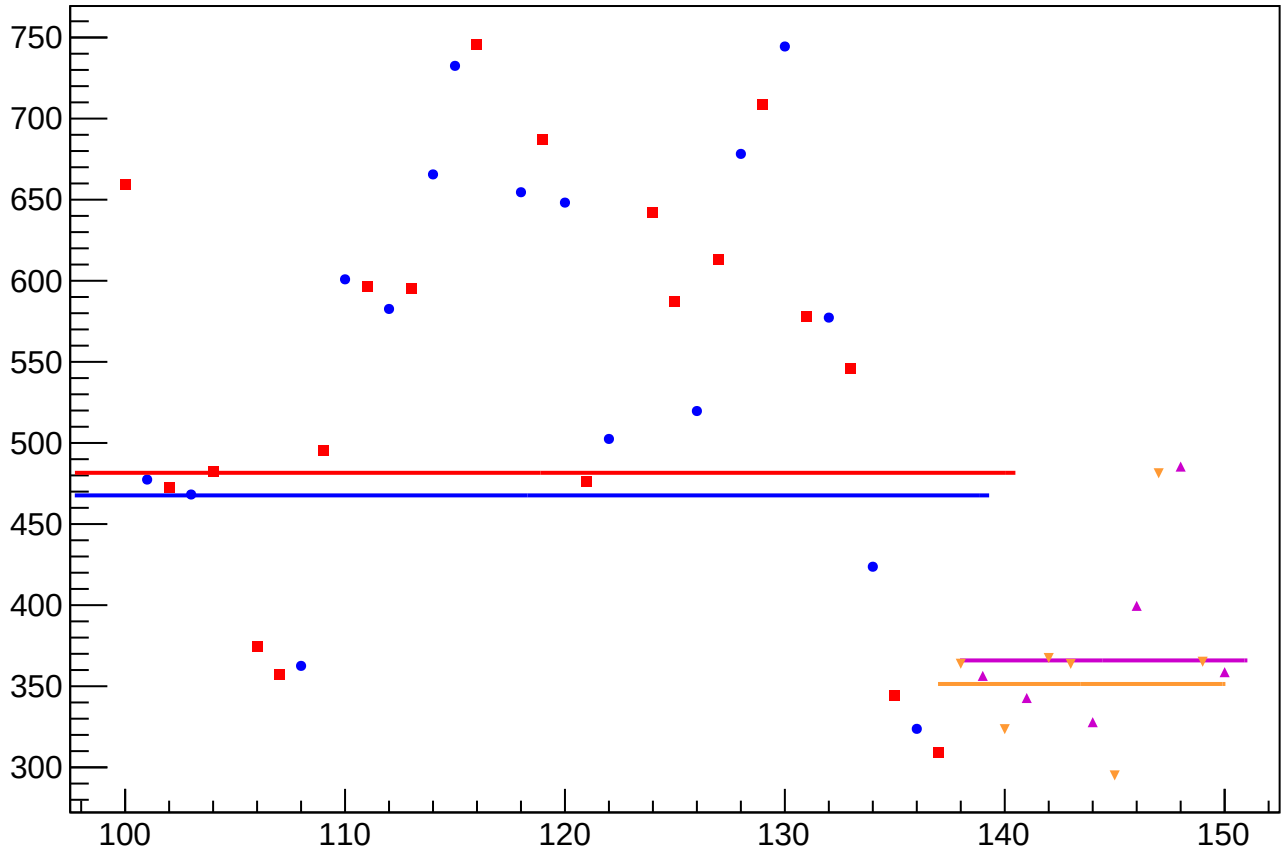
Left: -15.513+/-111.260 $\chi^2$/NDF: 17.9/12

Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -198.765+/-120.285 $\chi^2$/NDF:25.6/21

Out: 7.246+/-117.239 $\chi^2$/NDF:23.7/25

All: -93.118+/-83.957 $\chi^2$/NDF: 50.8/47




Right In: 467.674+/-0.128 $\chi^2$/NDF: 985943.7/15

Left Out: 351.404+/-0.109 $\chi^2$/NDF:198716.5/6

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.1/18

Left In: 365.926+/-0.114 $\chi^2$/NDF:146465.7/5

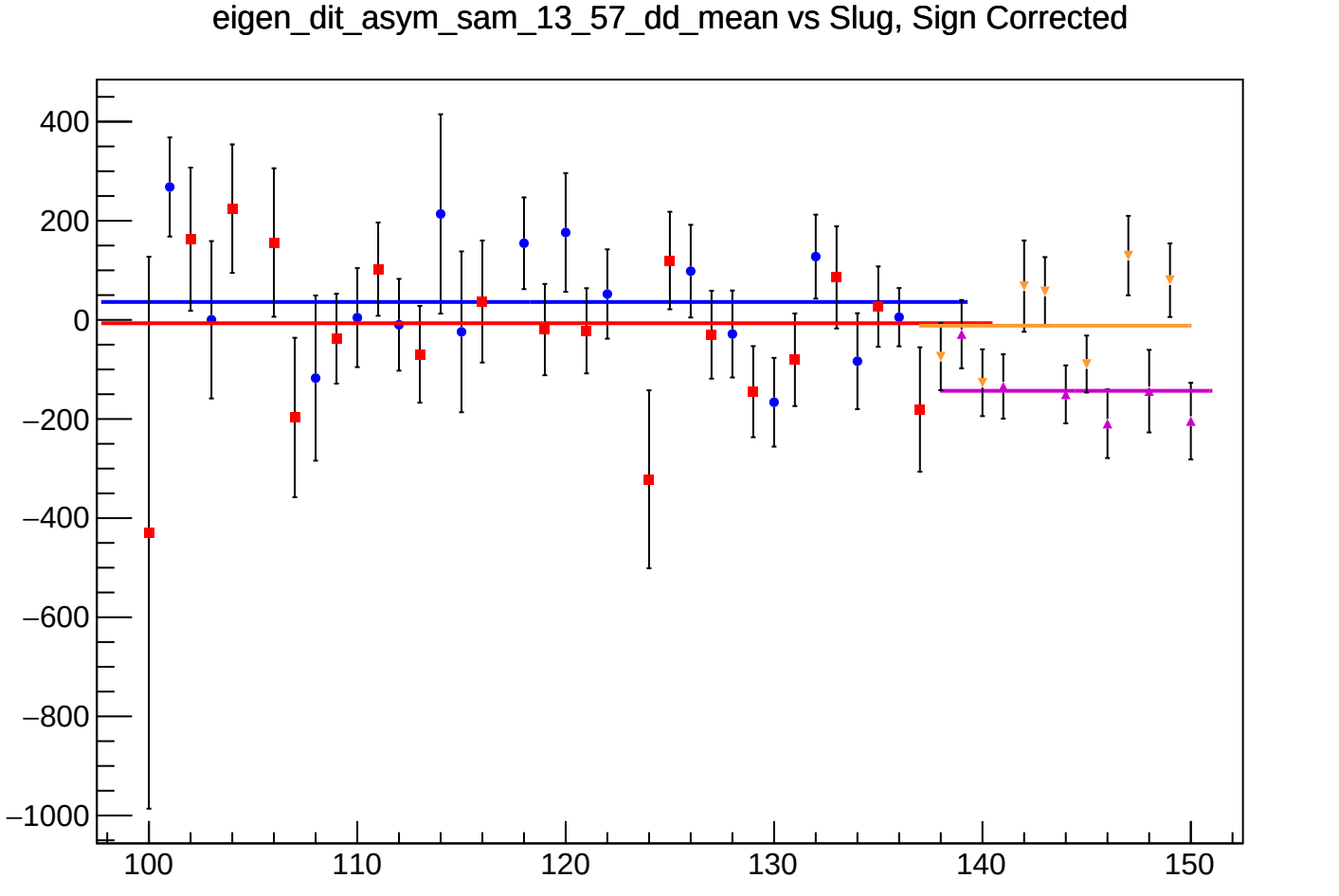
Left: 358.301+/-0.079 $\chi^2$/NDF: 353678.2/12

Right: 474.590+/-0.090 $\chi^2$/NDF: 1846147.0/34

In: 411.194+/-0.085 $\chi^2$/NDF:1485834.7/21

Out: 405.692+/-0.083 $\chi^2$/NDF:1652605.8/25

All: 408.372+/-0.059 $\chi^2$/NDF: 3140586.8/47




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -11.678+/-26.686 $\chi^2$/NDF:12.0/6

Right Out: -6.735+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -143.105+/-28.178 $\chi^2$/NDF:4.3/5

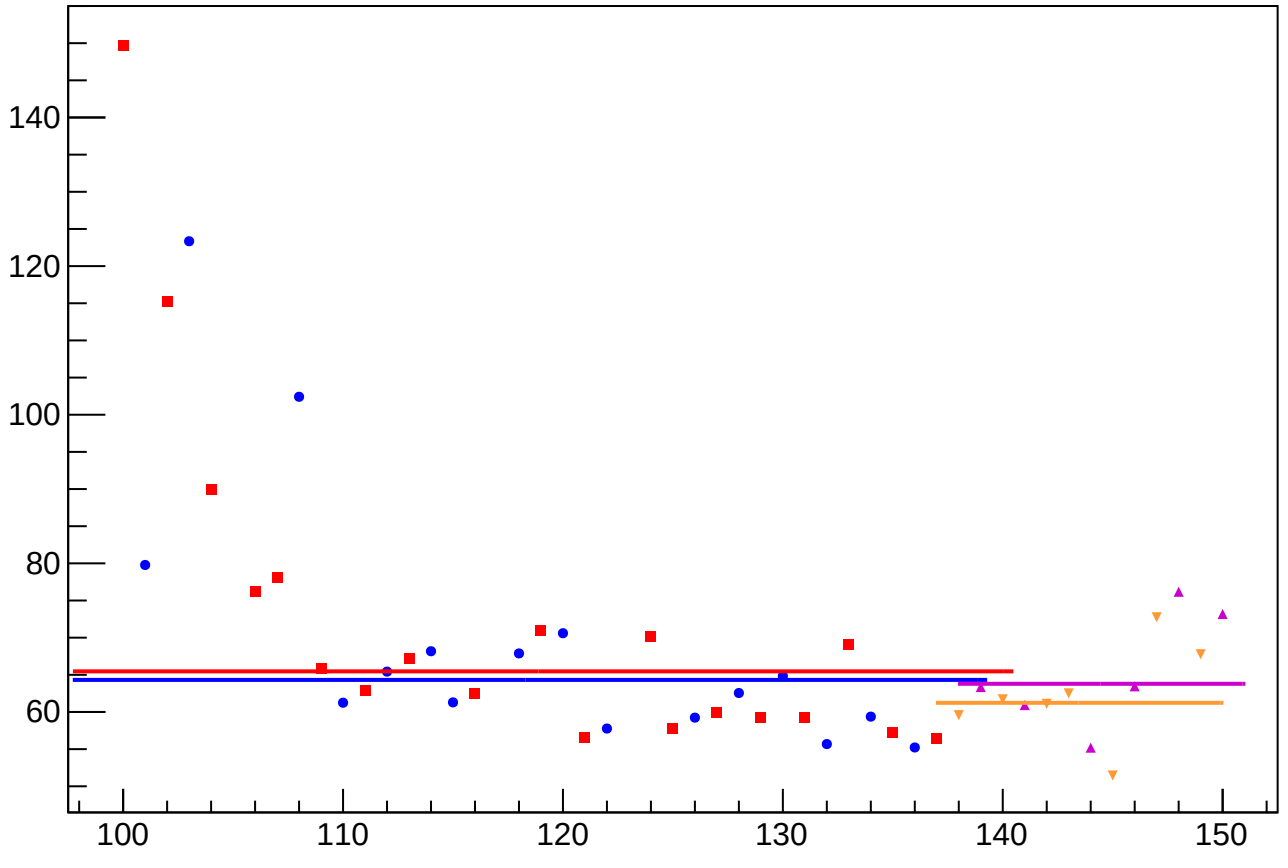
Left: -73.820+/-19.376 $\chi^2$/NDF: 27.8/12

Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -40.915+/-18.476 $\chi^2$/NDF:47.0/21

Out: -9.002+/-18.073 $\chi^2$/NDF:32.3/25

All: -24.607+/-12.920 $\chi^2$/NDF: 80.9/47




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532073.4/15

Left Out: 61.233+/-0.019 $\chi^2$/NDF:116669.3/6

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482367.1/18

Left In: 63.793+/-0.020 $\chi^2$/NDF:120947.8/5

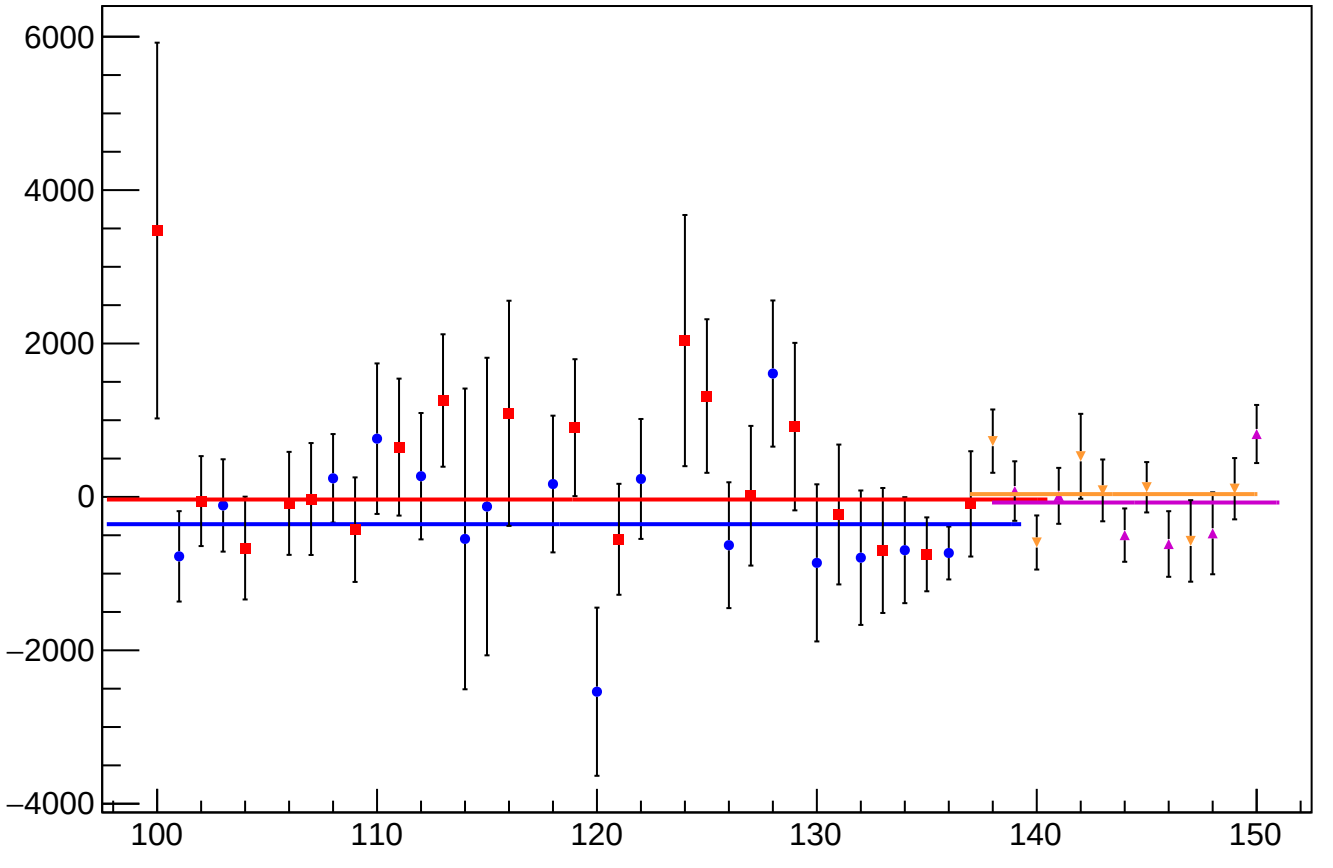
Left: 62.444+/-0.014 $\chi^2$/NDF: 246319.5/12

Right: 64.889+/-0.012 $\chi^2$/NDF: 1016639.7/34

In: 64.091+/-0.013 $\chi^2$/NDF:653414.1/21

Out: 63.524+/-0.013 $\chi^2$/NDF:626274.7/25

All: 63.802+/-0.009 $\chi^2$/NDF: 1280650.9/47




Right In: -355.529+/-180.334 $\chi^2$/NDF: 14.8/15

Left Out: 36.591+/-153.542 $\chi^2$/NDF:8.2/6

Right Out: -33.787+/-181.560 $\chi^2$/NDF: 15.4/18

Left In: -73.120+/-161.447 $\chi^2$/NDF:9.4/5

Left: -15.513+/-111.260 $\chi^2$/NDF: 17.9/12

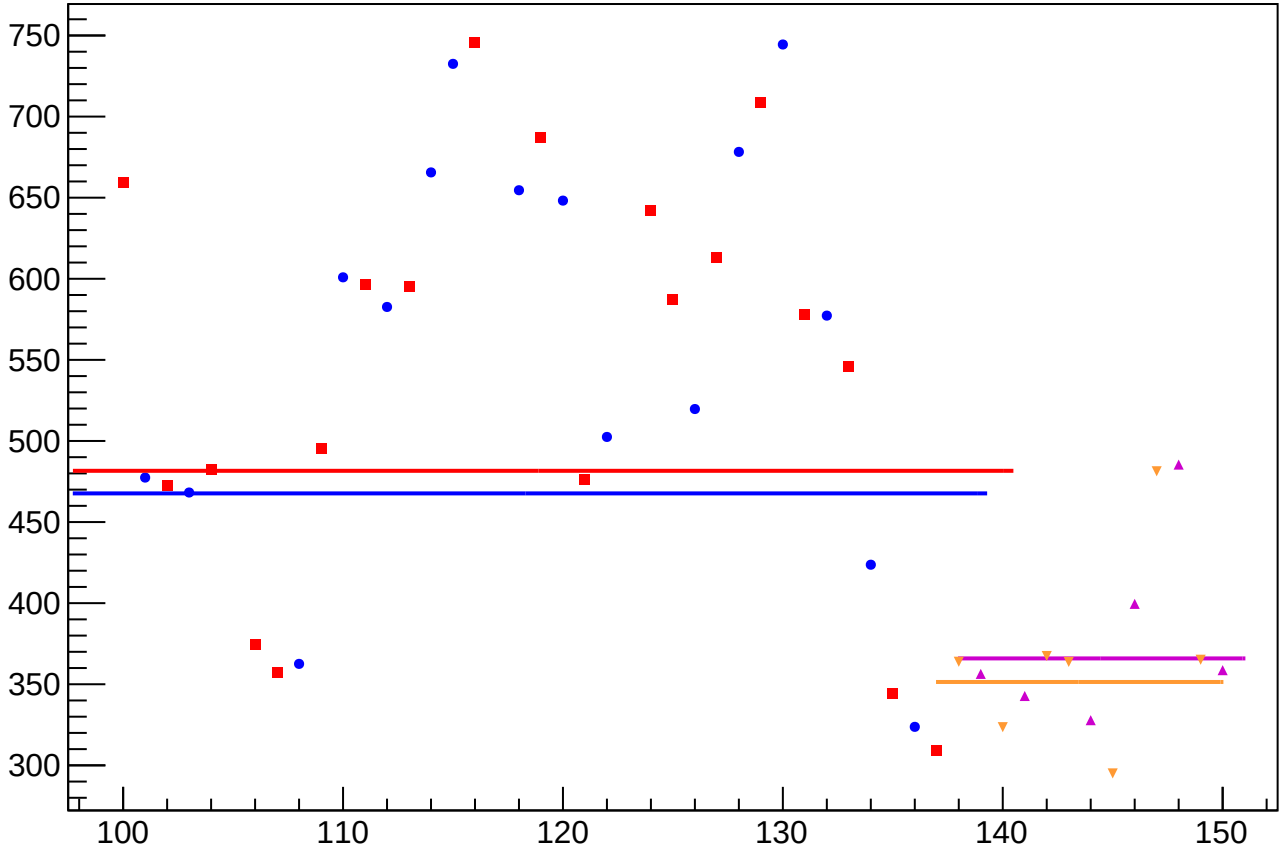
Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -198.765+/-120.285 $\chi^2$/NDF:25.6/21

Out: 7.246+/-117.239 $\chi^2$/NDF:23.7/25

All: -93.119+/-83.957 $\chi^2$/NDF: 50.8/47

asym_sam_13_57_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 467.674+/-0.128 $\chi^2$/NDF: 985945.4/15

Left Out: 351.404+/-0.109 $\chi^2$/NDF:198716.6/6

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.0/18

Left In: 365.926+/-0.114 $\chi^2$/NDF:146465.5/5

Left: 358.301+/-0.079 $\chi^2$/NDF: 353678.4/12

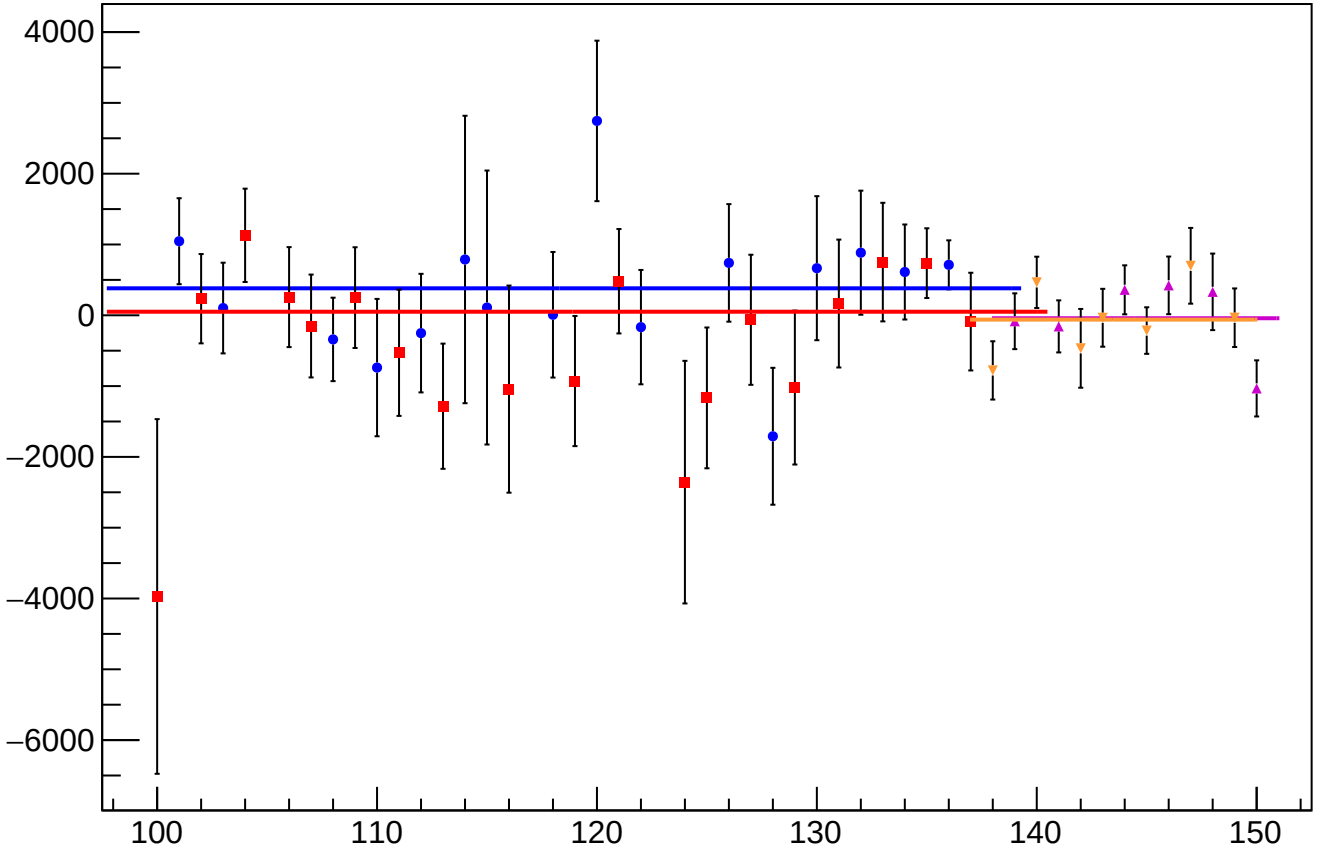
Right: 474.589+/-0.090 $\chi^2$/NDF: 1846148.4/34

In: 411.194+/-0.085 $\chi^2$/NDF:1485829.5/21

Out: 405.692+/-0.083 $\chi^2$/NDF:1652597.6/25

All: 408.372+/-0.059 $\chi^2$/NDF: 3140573.5/47

# asym_sam_13_57_dd_mean vs Slug, Sign Corrected




Right In: 381.086+/-182.655 $\chi^2$/NDF: 16.1/15

Left Out: -61.029+/-155.557 $\chi^2$/NDF:7.9/6

Right Out: 50.392+/-185.262 $\chi^2$/NDF: 17.5/18

Left In: -41.733+/-162.200 $\chi^2$/NDF:9.5/5

Left: -51.784+/-112.270 $\chi^2$/NDF: 17.4/12

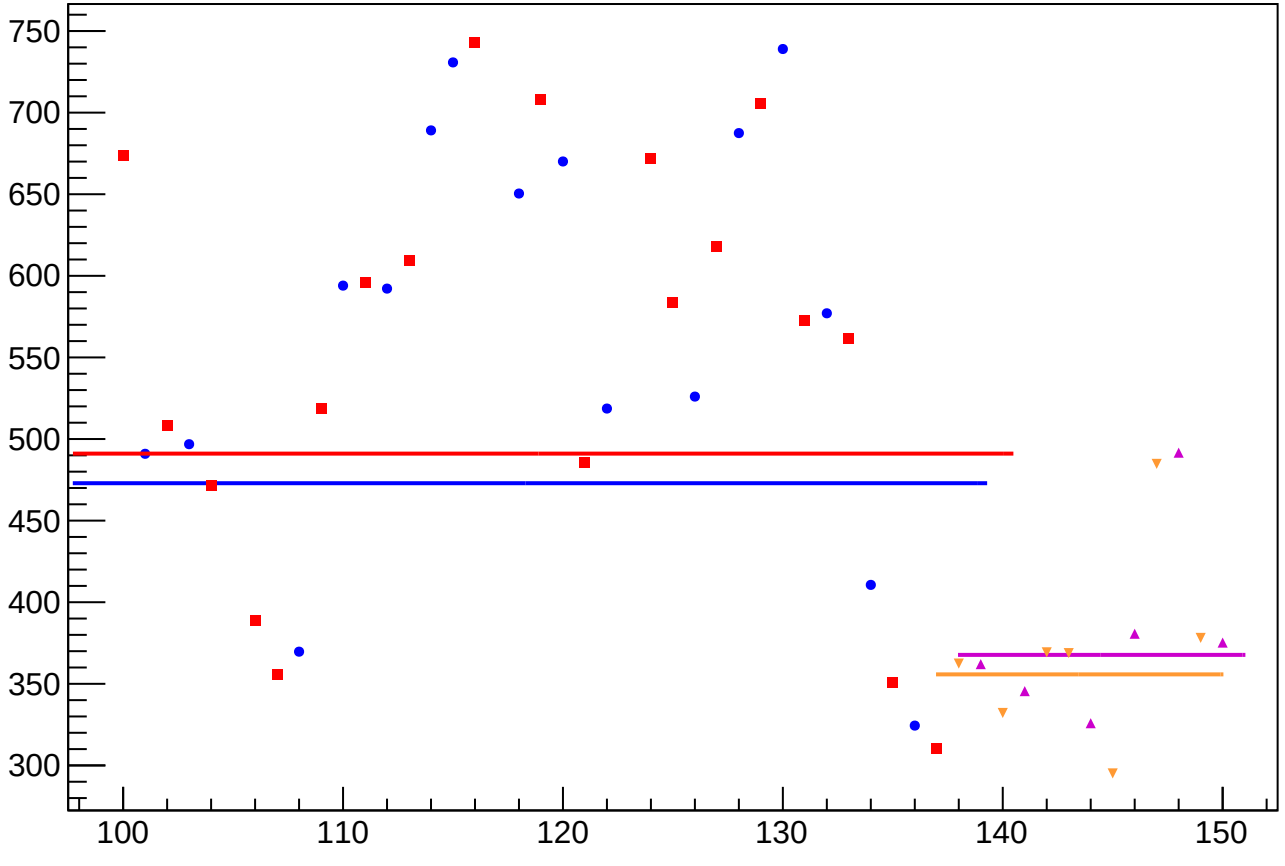
Right: 218.082+/-130.069 $\chi^2$/NDF: 35.2/34

In: 144.685+/-121.283 $\chi^2$/NDF:28.6/21

Out: -14.956+/-119.130 $\chi^2$/NDF:25.6/25

All: 63.435+/-84.989 $\chi^2$/NDF: 55.1/47

# asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 472.924+/-0.129 $\chi^2$/NDF: 1000274.3/15

Left Out: 355.788+/-0.110 $\chi^2$/NDF:202483.5/6

Right Out: 491.063+/-0.131 $\chi^2$/NDF: 847493.6/18

Left In: 367.733+/-0.115 $\chi^2$/NDF:144841.2/5

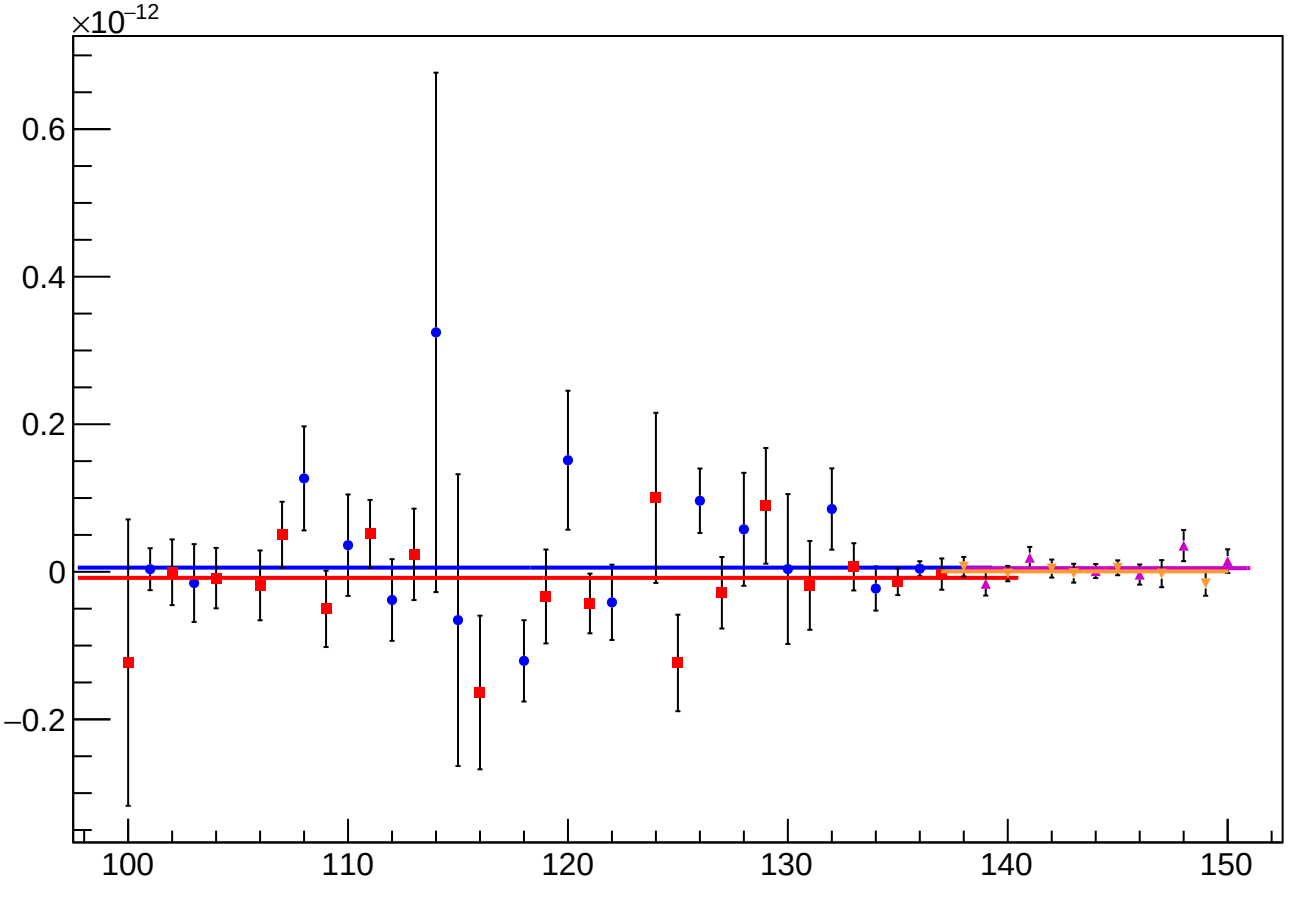
Left: 361.511+/-0.079 $\chi^2$/NDF: 352975.0/12

Right: 481.865+/-0.092 $\chi^2$/NDF: 1857489.5/34

In: 414.111+/-0.086 $\chi^2$/NDF:1515985.7/21

Out: 411.724+/-0.084 $\chi^2$/NDF:1675385.7/25

All: 412.896+/-0.060 $\chi^2$/NDF: 3191765.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.7/5

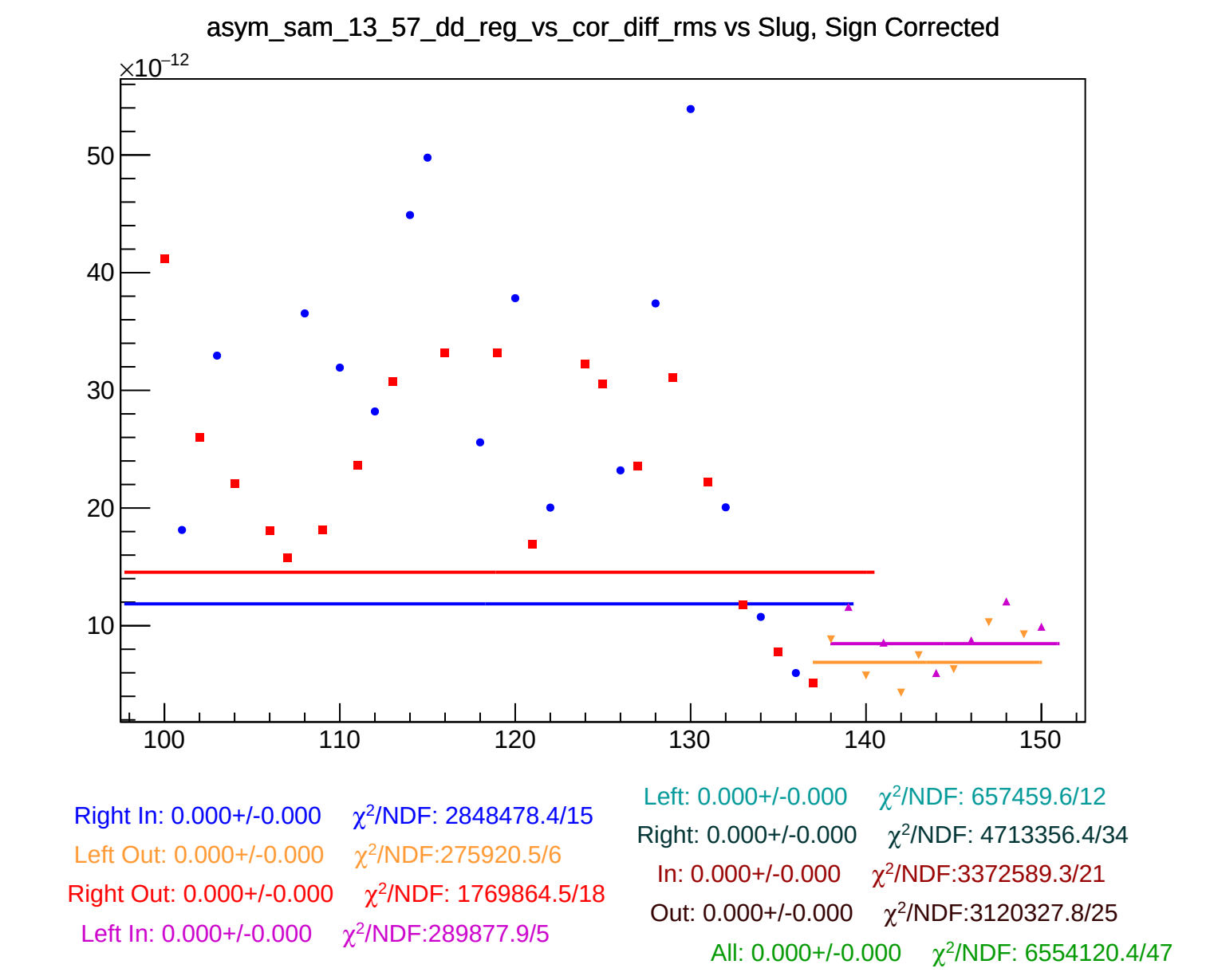
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.7/12

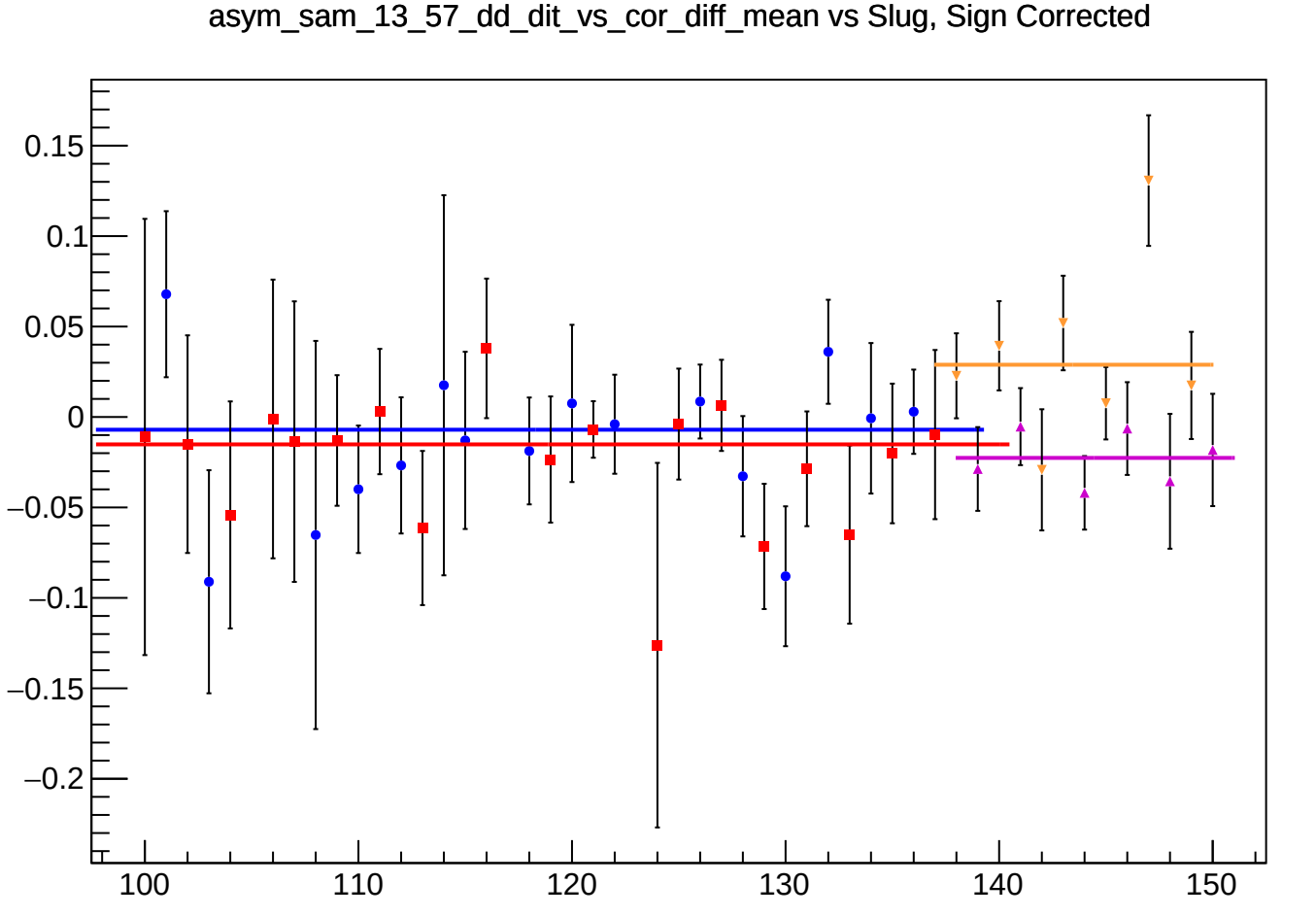
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:16.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 44.3/47


asym_sam_13_57_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2848478.4/15
Left Out: 0.000+/-0.000 χ²/NDF:275920.5/6
Right Out: 0.000+/-0.000 χ²/NDF: 1769864.5/18
Left In: 0.000+/-0.000 χ²/NDF:289877.9/5
Left: 0.000+/-0.000 χ²/NDF: 657459.6/12
Right: 0.000+/-0.000 χ²/NDF: 4713356.4/34
In: 0.000+/-0.000 χ²/NDF:3372589.3/21
Out: 0.000+/-0.000 χ²/NDF:3120327.8/25
All: 0.000+/-0.000 χ²/NDF: 6554120.4/47




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.029+/-0.010 $\chi^2$/NDF:13.3/6

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.023+/-0.010 $\chi^2$/NDF:2.2/5

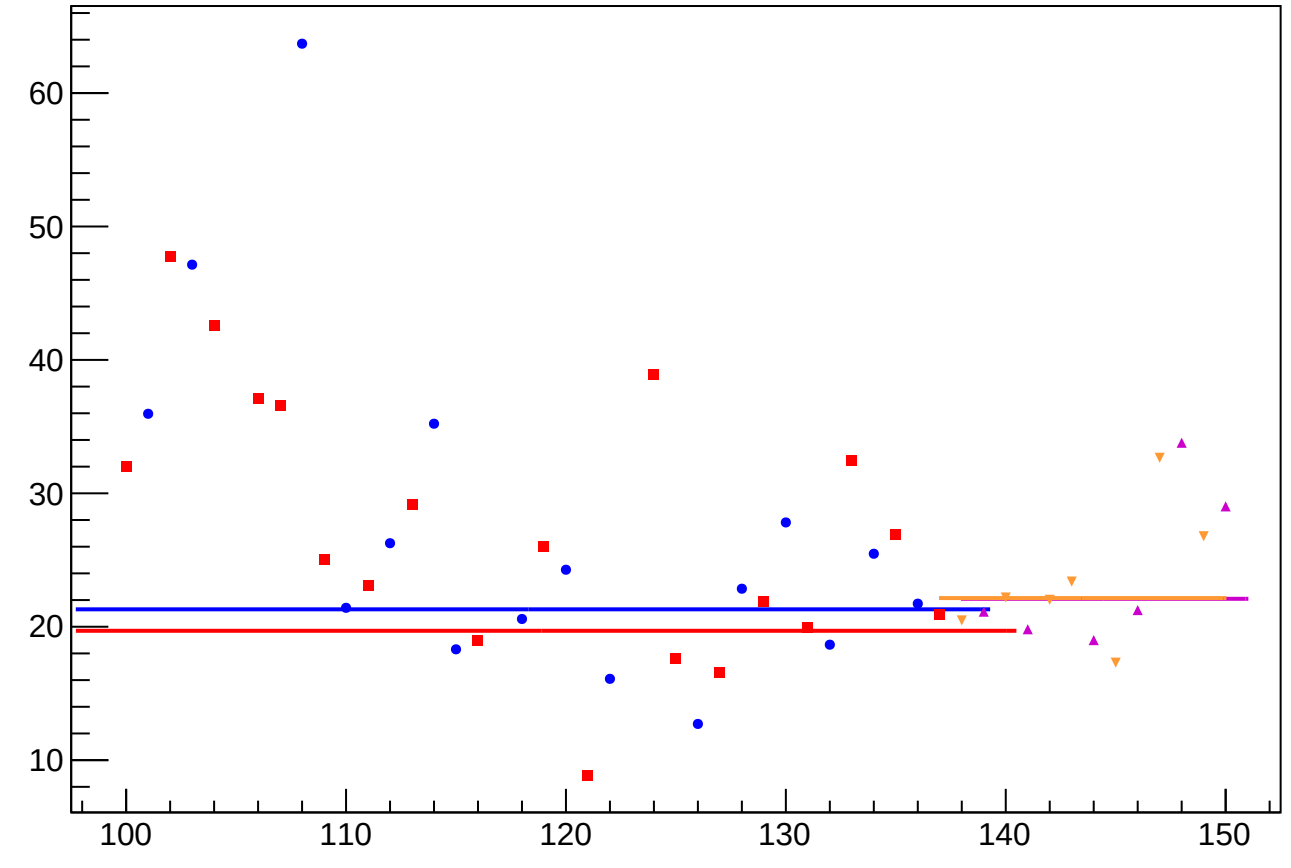
Left: 0.004+/-0.007 $\chi^2$/NDF: 28.7/12

Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.014+/-0.007 $\chi^2$/NDF:17.9/21

Out: 0.003+/-0.006 $\chi^2$/NDF:35.1/25

All: -0.005+/-0.005 $\chi^2$/NDF: 56.2/47




Right In: 21.305+/-0.006 $\chi^2$/NDF: 1479398.3/15

Left Out: 22.148+/-0.007 $\chi^2$/NDF:350176.1/6

Right Out: 19.697+/-0.006 $\chi^2$/NDF: 2438979.3/18

Left In: 22.094+/-0.007 $\chi^2$/NDF:371582.6/5

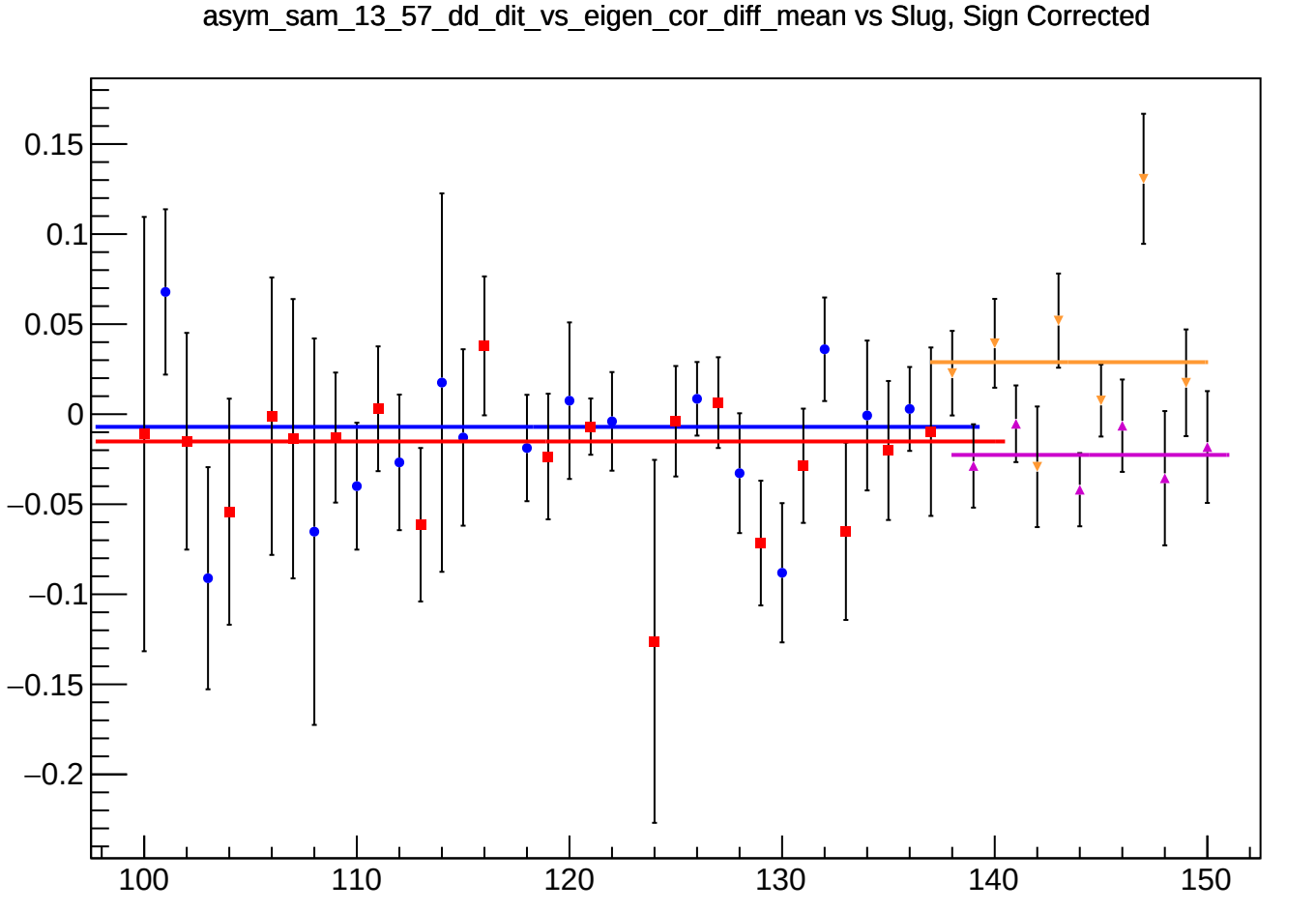
Left: 22.121+/-0.005 $\chi^2$/NDF: 721787.8/12

Right: 20.463+/-0.004 $\chi^2$/NDF: 3954812.2/34

In: 21.637+/-0.005 $\chi^2$/NDF:1858019.5/21

Out: 20.698+/-0.004 $\chi^2$/NDF:2861730.6/25

All: 21.150+/-0.003 $\chi^2$/NDF: 4740963.5/47




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.029+/-0.010 $\chi^2$/NDF:13.3/6

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.023+/-0.010 $\chi^2$/NDF:2.2/5

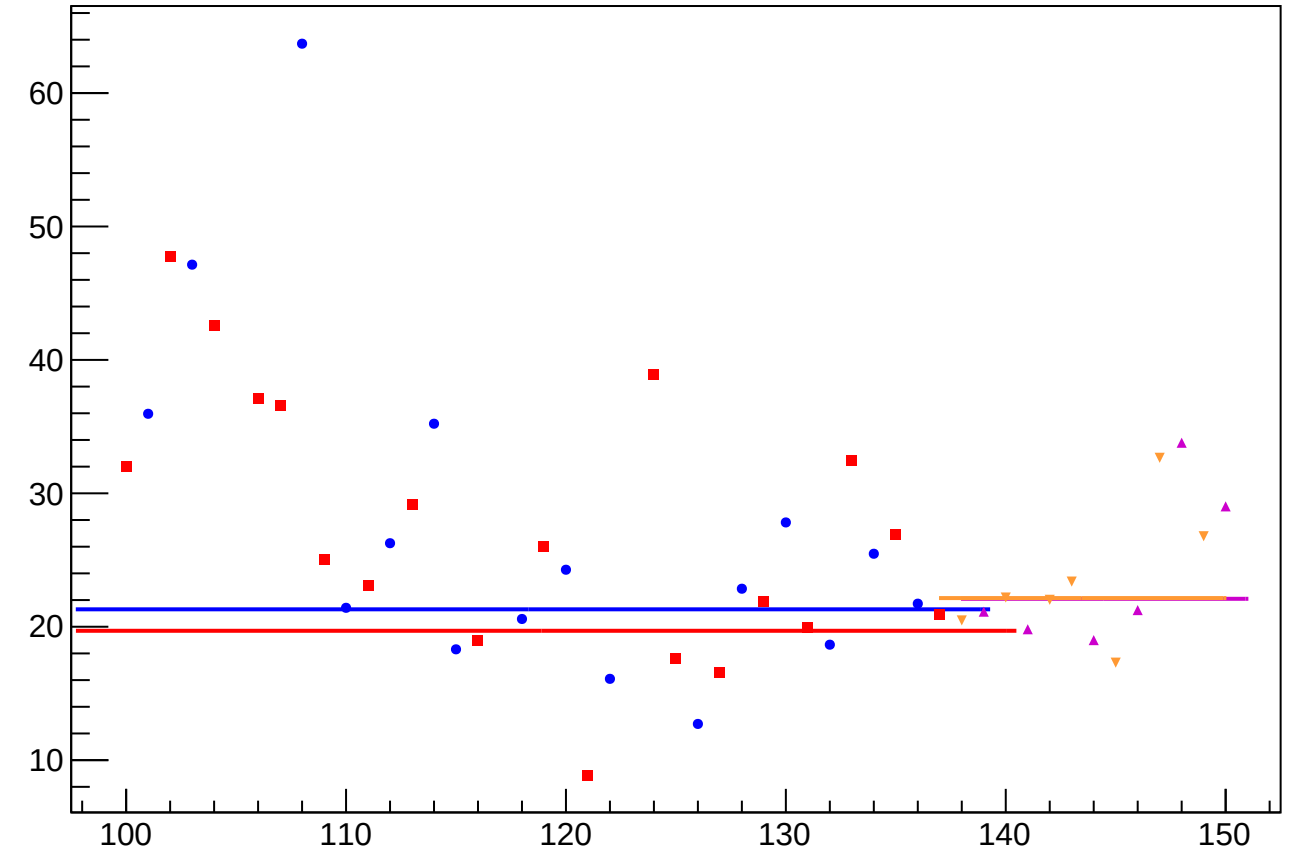
Left: 0.004+/-0.007 $\chi^2$/NDF: 28.7/12

Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.014+/-0.007 $\chi^2$/NDF:17.9/21

Out: 0.003+/-0.006 $\chi^2$/NDF:35.1/25

All: -0.005+/-0.005 $\chi^2$/NDF: 56.2/47




Right In: 21.305+/-0.006 $\chi^2$/NDF: 1479398.3/15

Left Out: 22.148+/-0.007 $\chi^2$/NDF:350176.1/6

Right Out: 19.697+/-0.006 $\chi^2$/NDF: 2438979.3/18

Left In: 22.094+/-0.007 $\chi^2$/NDF:371582.6/5

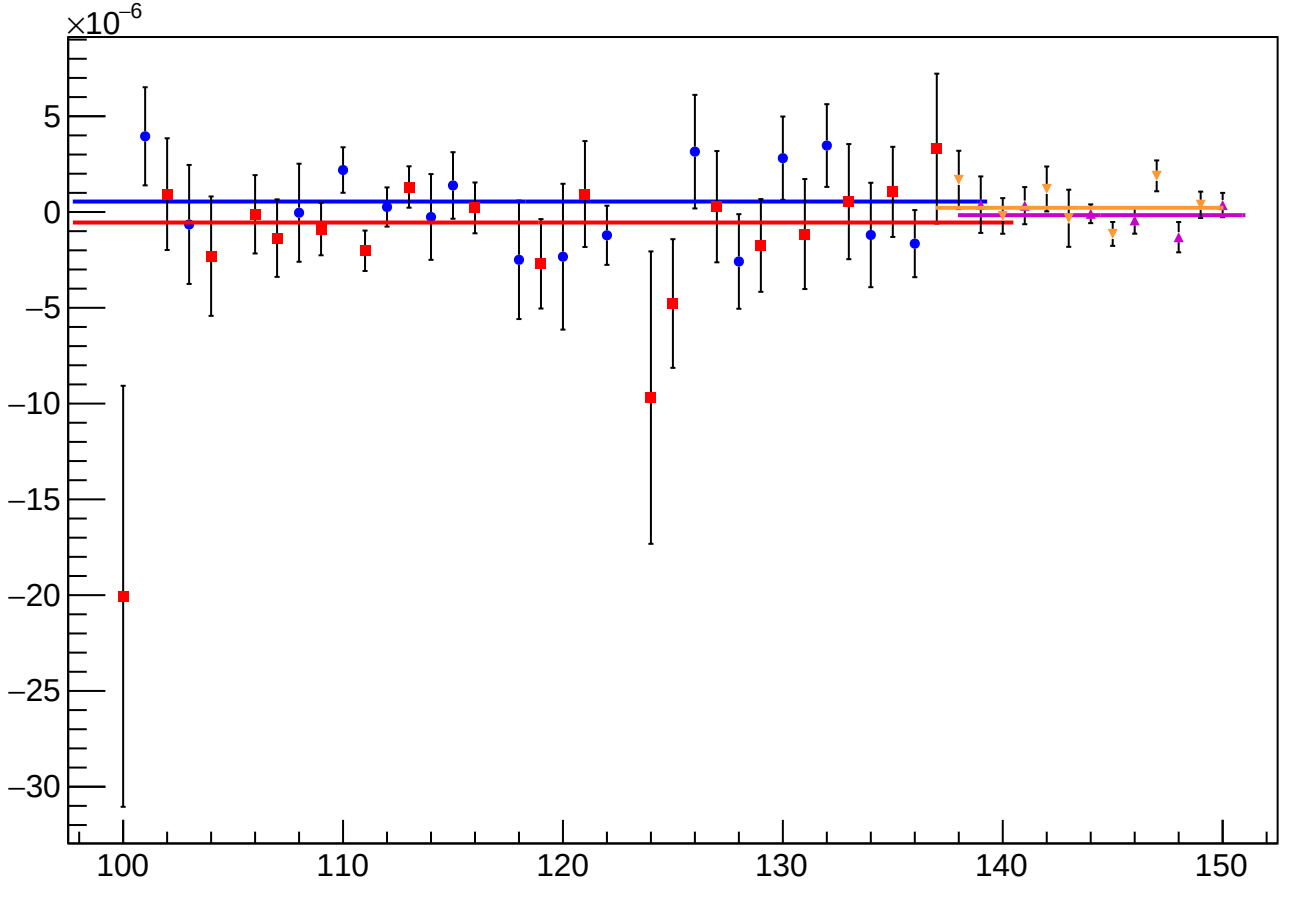
Left: 22.121+/-0.005 $\chi^2$/NDF: 721787.8/12

Right: 20.463+/-0.004 $\chi^2$/NDF: 3954812.2/34

In: 21.637+/-0.005 $\chi^2$/NDF:1858019.5/21

Out: 20.698+/-0.004 $\chi^2$/NDF:2861730.6/25

All: 21.150+/-0.003 $\chi^2$/NDF: 4740963.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.4/5

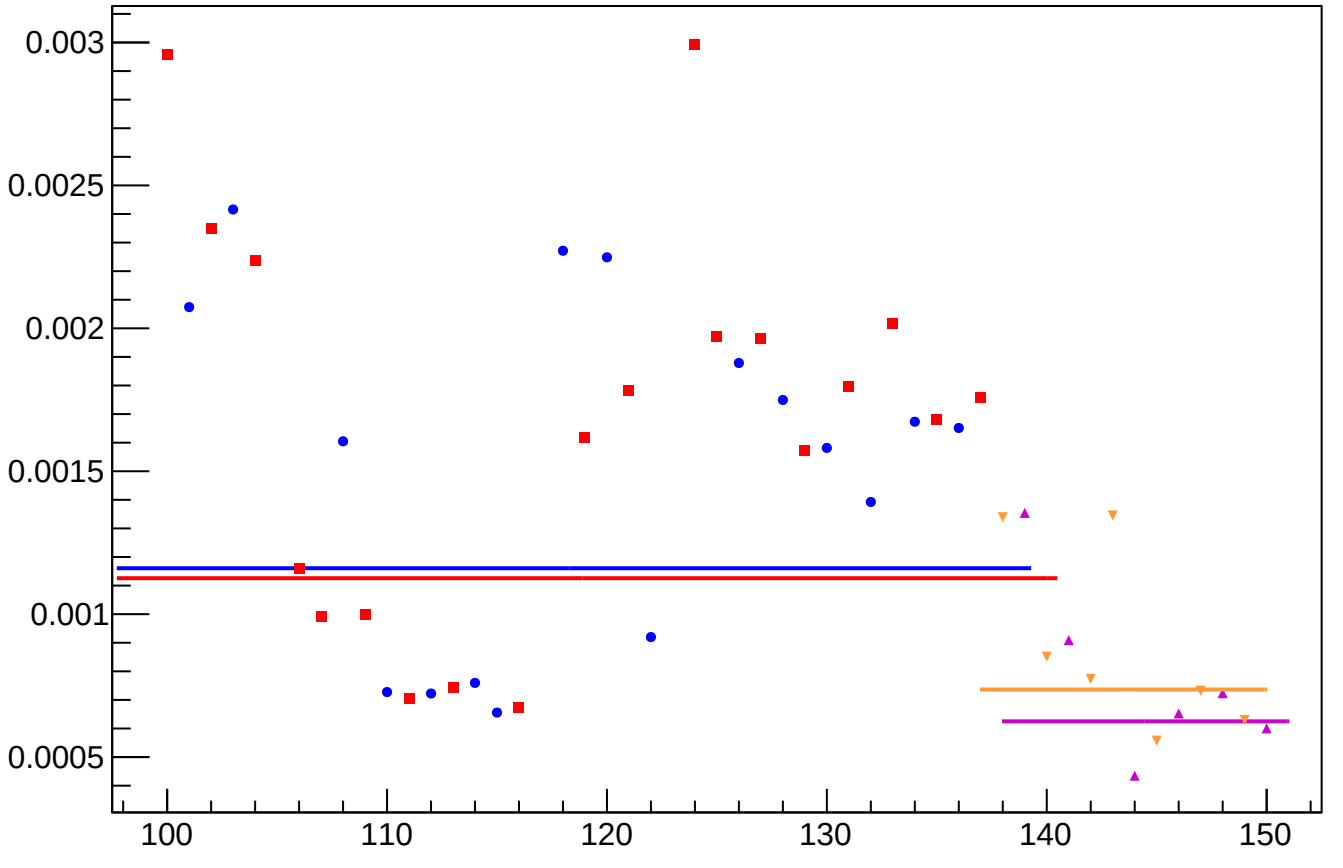
Left: 0.000+/-0.000 $\chi^2$/NDF: 15.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:28.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 47.7/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2534643.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:892583.9/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2623987.9/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1000952.8/5

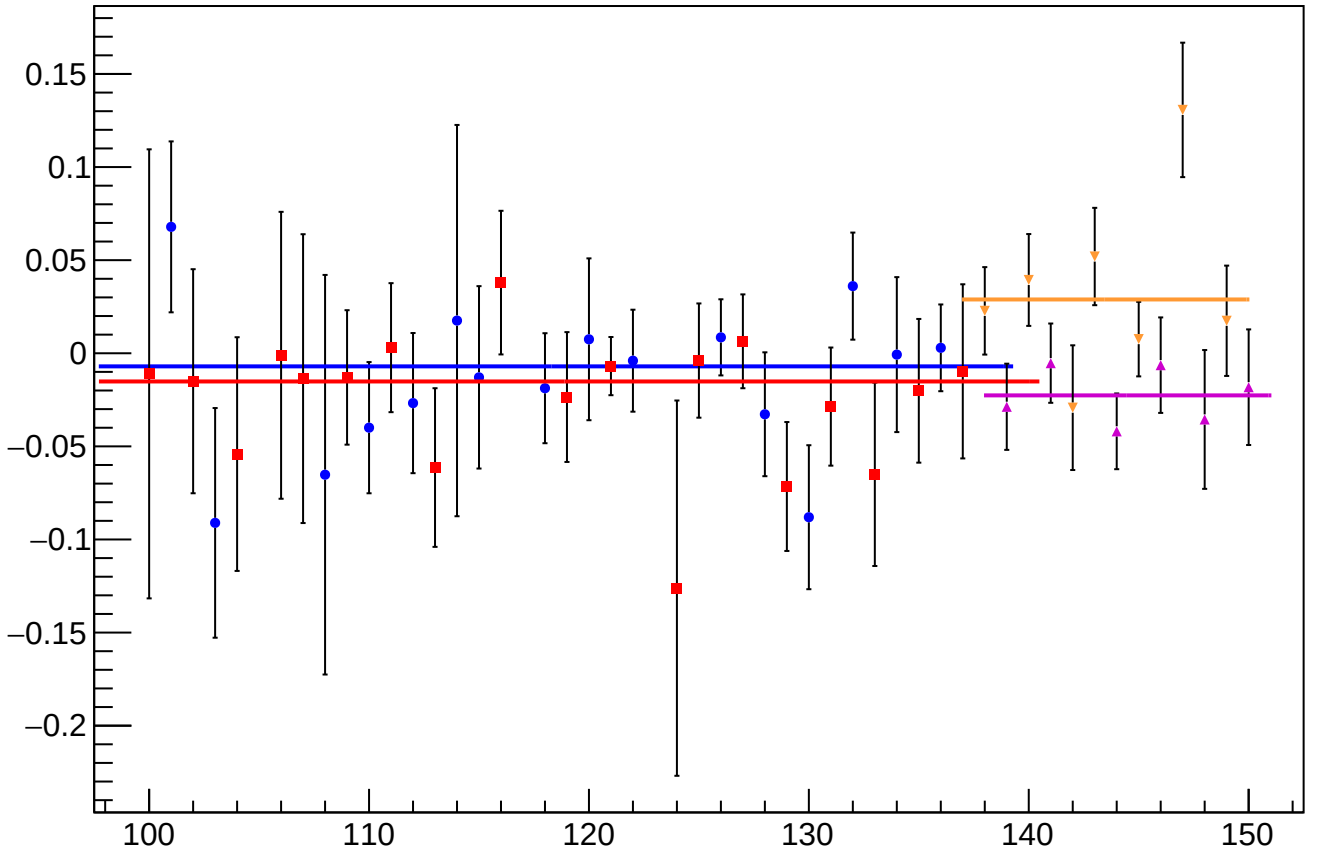
Left: 0.001+/-0.000 $\chi^2$/NDF: 2020563.1/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 5164155.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:5364975.4/21

Out: 0.001+/-0.000 $\chi^2$/NDF:4459125.8/25

All: 0.001+/-0.000 $\chi^2$/NDF: 9978948.4/47




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.029+/-0.010 $\chi^2$/NDF:13.3/6

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.023+/-0.010 $\chi^2$/NDF:2.2/5

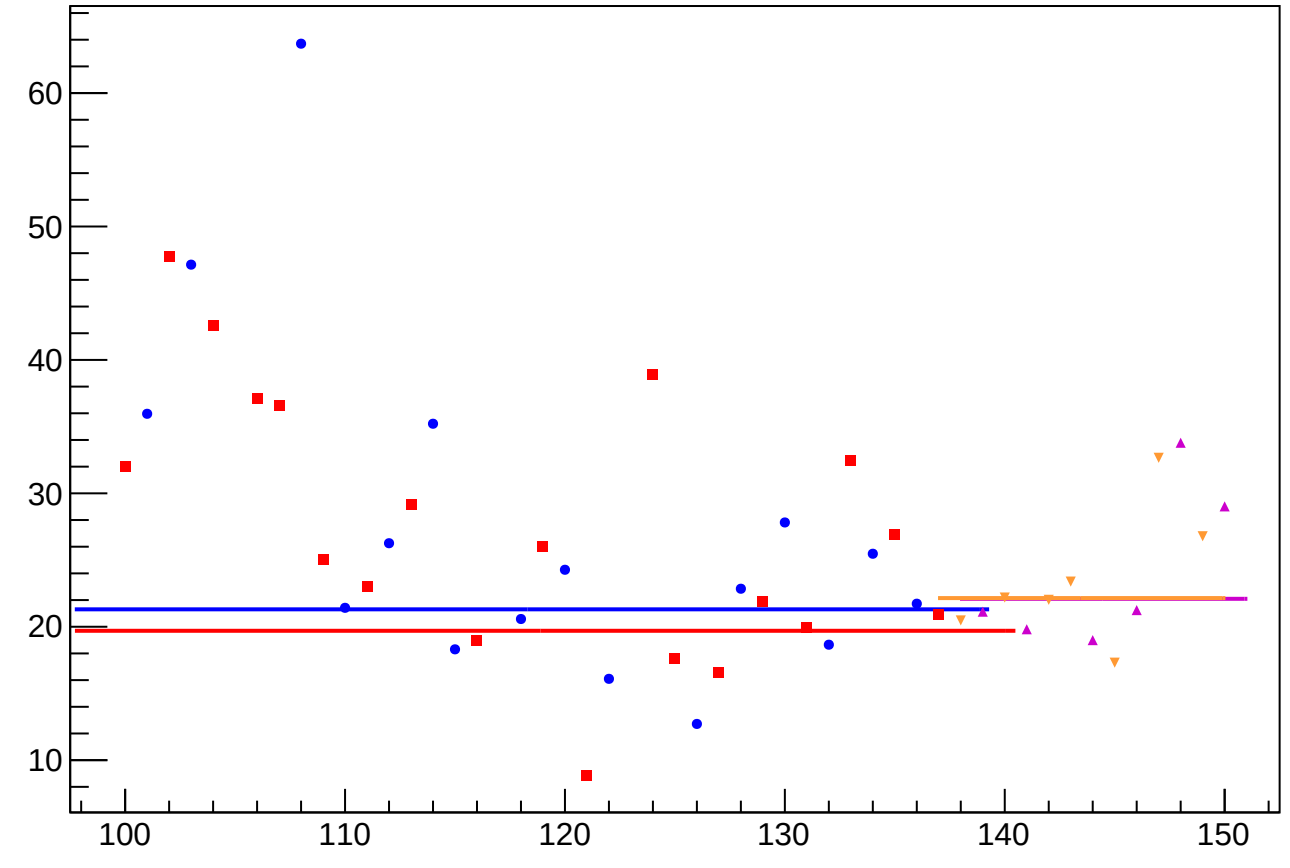
Left: 0.004+/-0.007 $\chi^2$/NDF: 28.7/12

Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.014+/-0.007 $\chi^2$/NDF:17.9/21

Out: 0.003+/-0.006 $\chi^2$/NDF:35.1/25

All: -0.005+/-0.005 $\chi^2$/NDF: 56.2/47




Right In: 21.306+/-0.006 $\chi^2$/NDF: 1479231.5/15

Left Out: 22.148+/-0.007 $\chi^2$/NDF:350204.5/6

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 22.094+/-0.007 $\chi^2$/NDF:371593.0/5

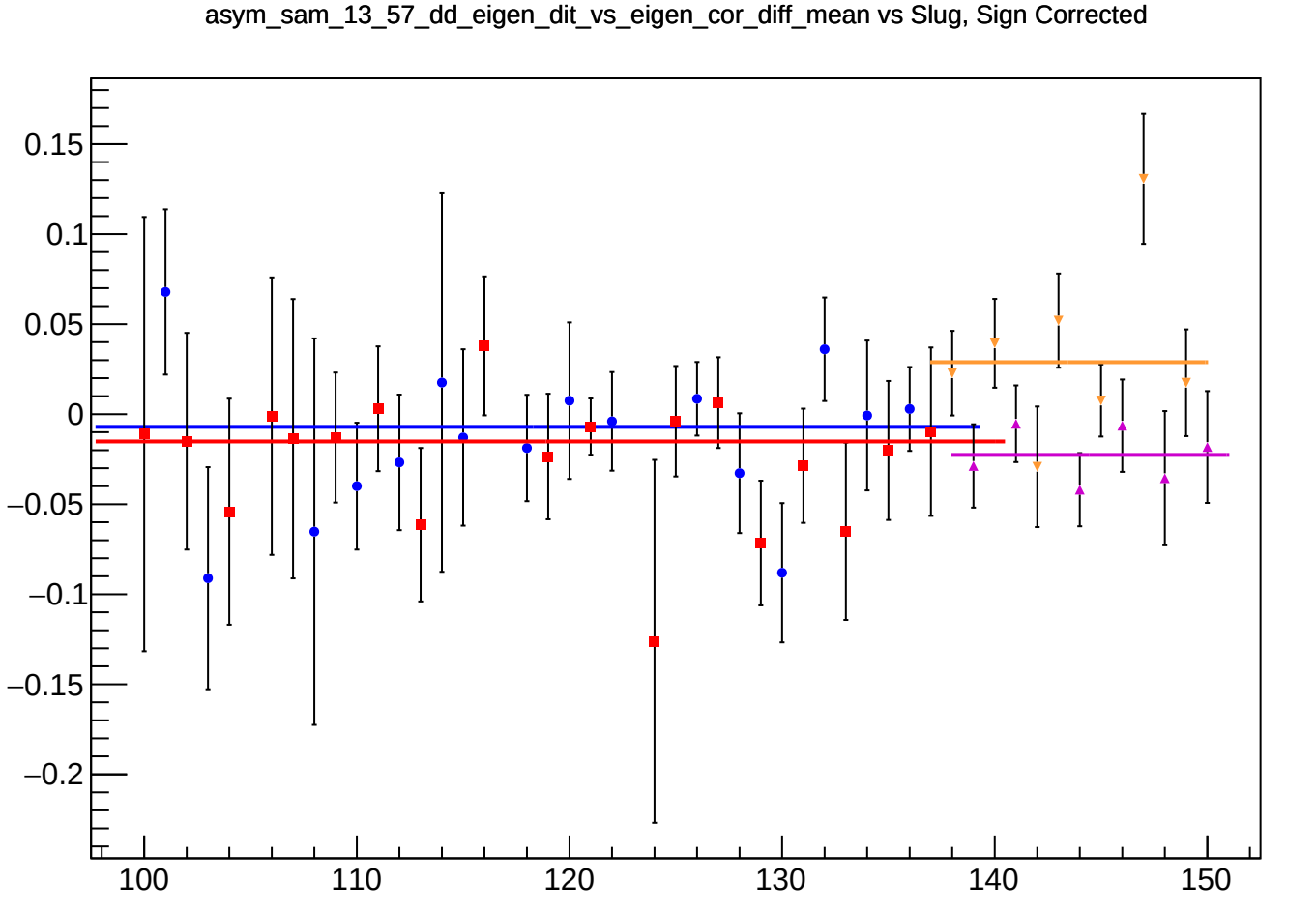
Left: 22.122+/-0.005 $\chi^2$/NDF: 721826.5/12

Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 21.637+/-0.005 $\chi^2$/NDF:1857862.1/21

Out: 20.699+/-0.004 $\chi^2$/NDF:2861358.8/25

All: 21.151+/-0.003 $\chi^2$/NDF: 4740425.9/47




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.029+/-0.010 $\chi^2$/NDF:13.3/6

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.023+/-0.010 $\chi^2$/NDF:2.2/5

Left: 0.004+/-0.007 $\chi^2$/NDF: 28.7/12

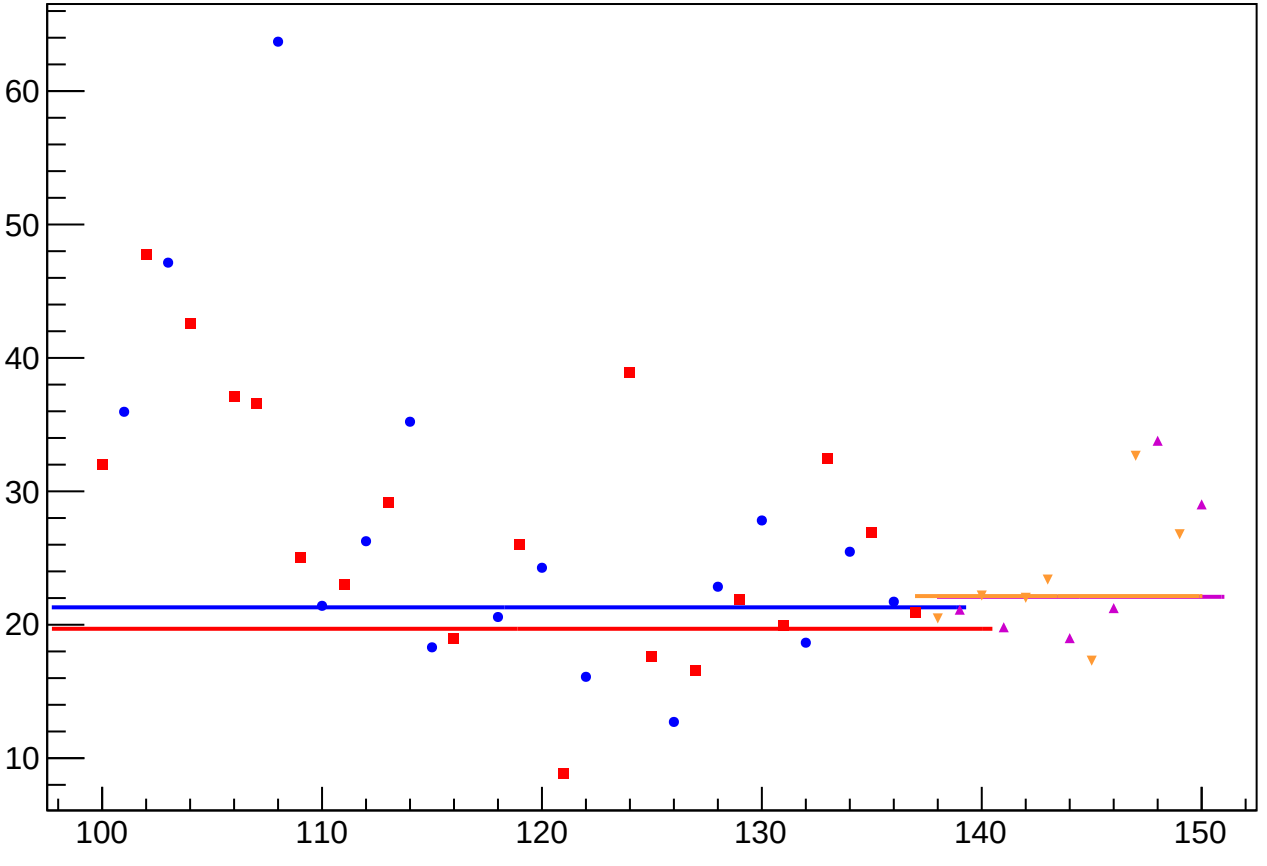
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.014+/-0.007 $\chi^2$/NDF:17.9/21

Out: 0.003+/-0.006 $\chi^2$/NDF:35.1/25

All: -0.005+/-0.005 $\chi^2$/NDF: 56.2/47

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.306+/-0.006 $\chi^2$/NDF: 1479231.5/15

Left Out: 22.148+/-0.007 $\chi^2$/NDF:350204.5/6

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 22.094+/-0.007 $\chi^2$/NDF:371593.0/5

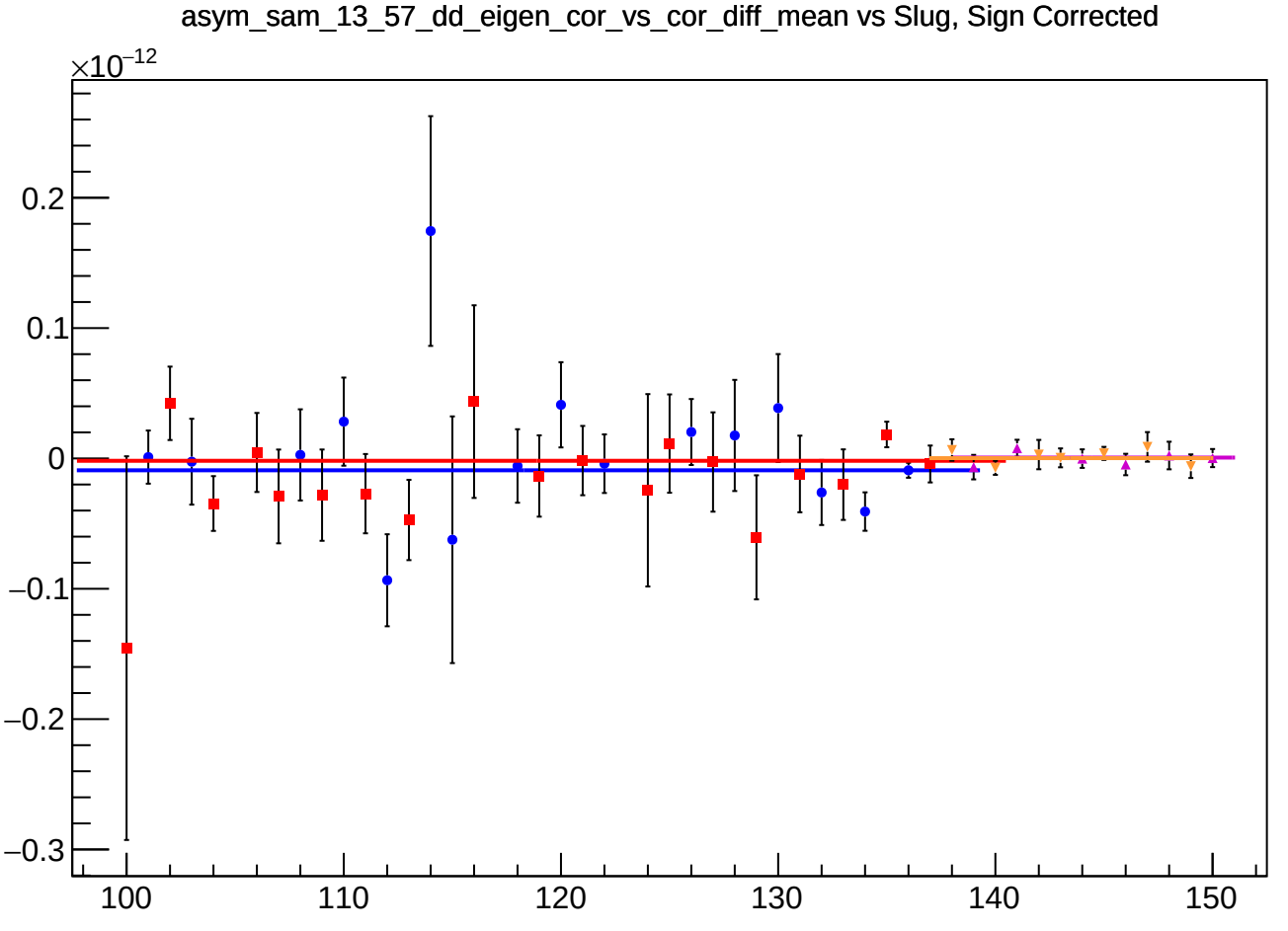
Left: 22.122+/-0.005 $\chi^2$/NDF: 721826.5/12

Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 21.637+/-0.005 $\chi^2$/NDF:1857862.1/21

Out: 20.699+/-0.004 $\chi^2$/NDF:2861358.8/25

All: 21.151+/-0.003 $\chi^2$/NDF: 4740425.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.3/5

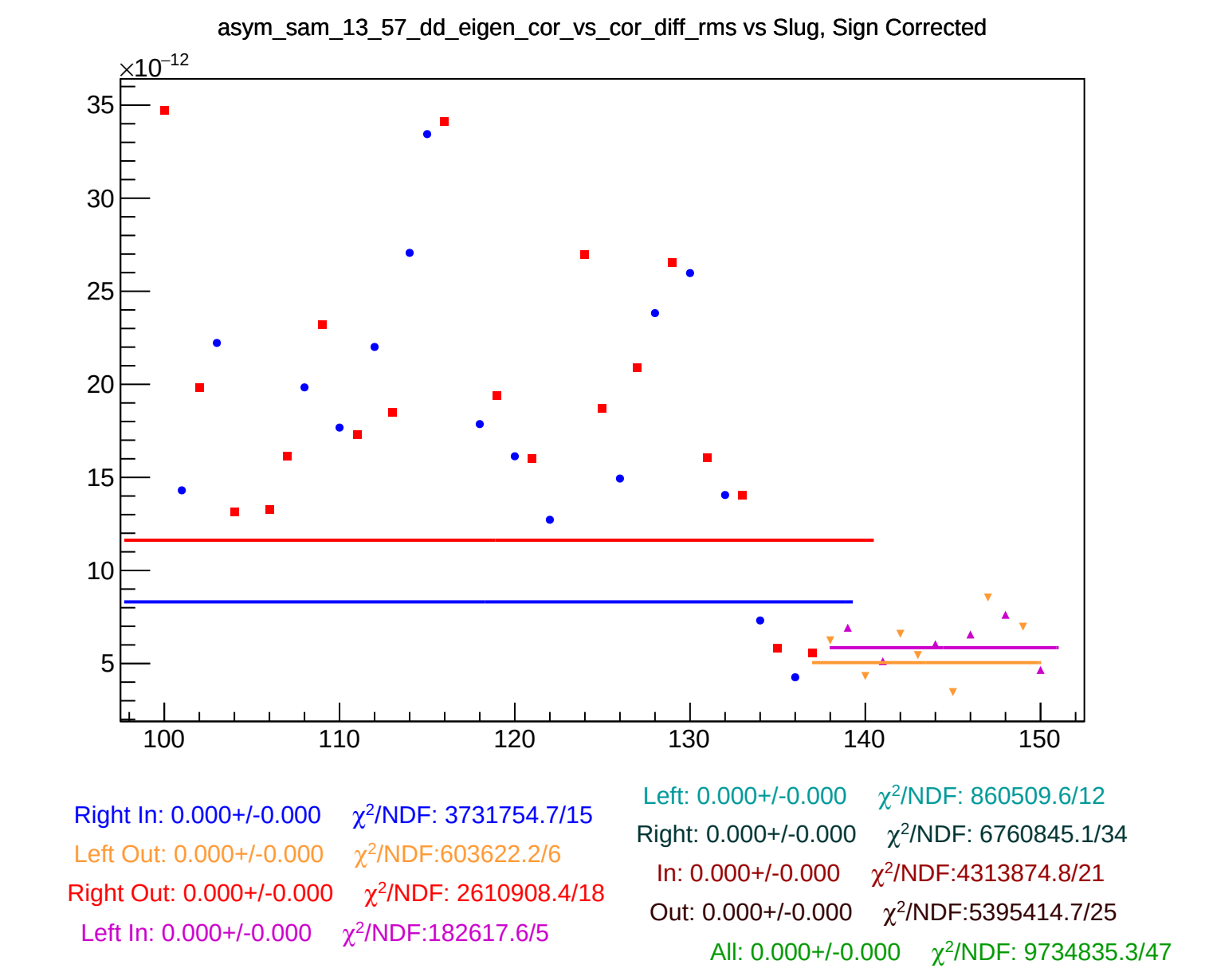
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.4/12

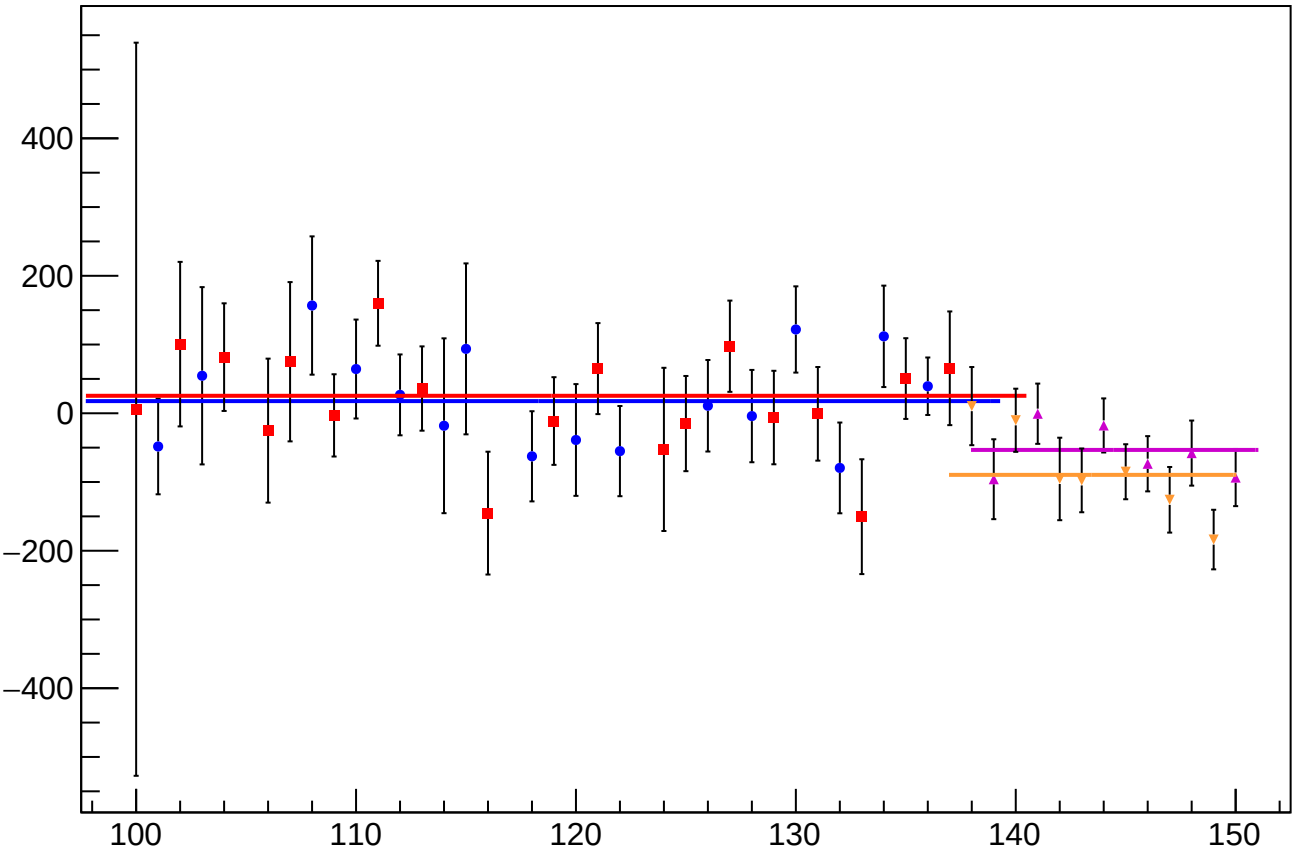
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:21.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 49.7/47


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3731754.7/15
Left Out: 0.000+/-0.000 χ²/NDF:603622.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 2610908.4/18
Left In: 0.000+/-0.000 χ²/NDF:182617.6/5
Left: 0.000+/-0.000 χ²/NDF: 860509.6/12
Right: 0.000+/-0.000 χ²/NDF: 6760845.1/34
In: 0.000+/-0.000 χ²/NDF:4313874.8/21
Out: 0.000+/-0.000 χ²/NDF:5395414.7/25
All: 0.000+/-0.000 χ²/NDF: 9734835.3/47




Right In: 17.701+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -89.606+/-17.899 $\chi^2$/NDF:11.4/6

Right Out: 25.440+/-17.337 $\chi^2$/NDF: 17.8/18

Left In: -53.316+/-17.940 $\chi^2$/NDF:4.0/5

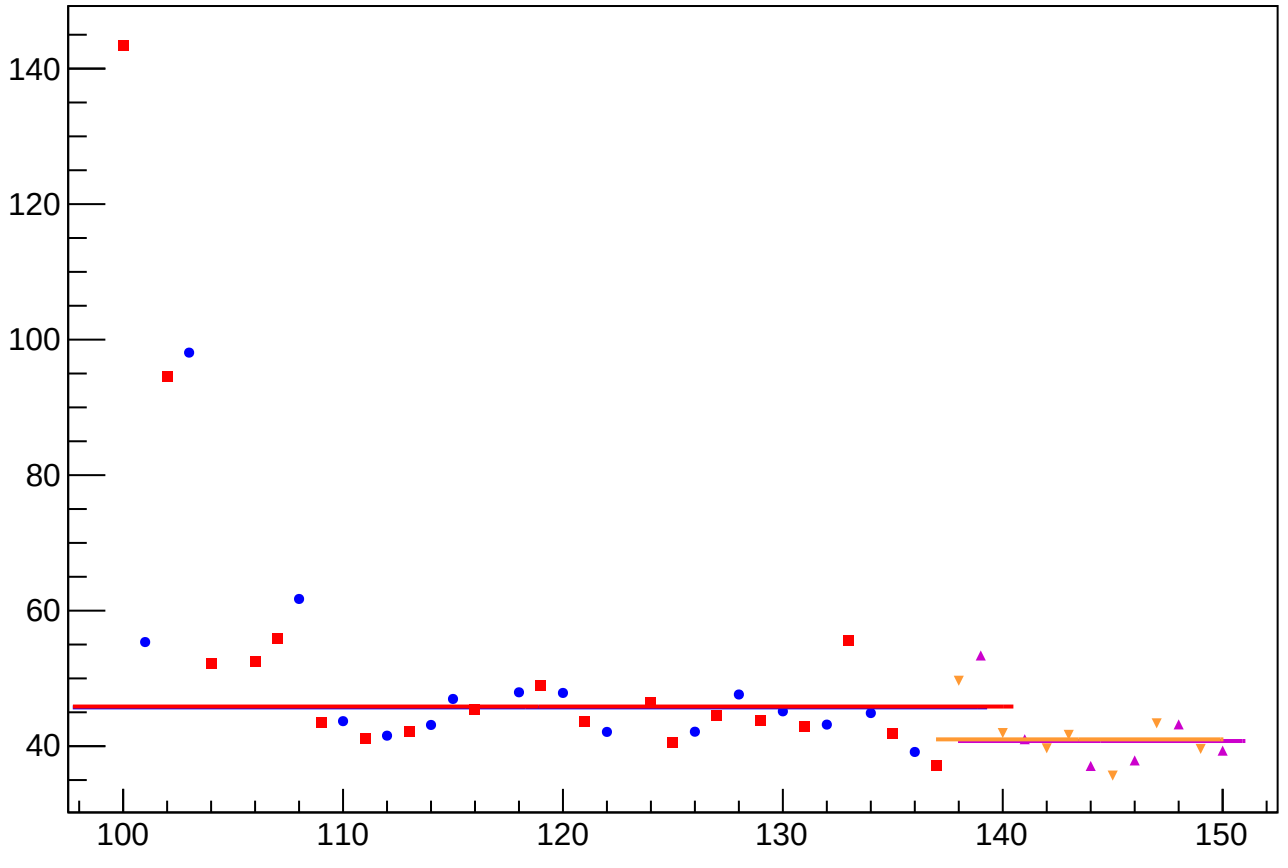
Left: -71.503+/-12.671 $\chi^2$/NDF: 17.5/12

Right: 21.600+/-12.306 $\chi^2$/NDF: 31.9/34

In: -16.864+/-12.516 $\chi^2$/NDF:26.0/21

Out: -30.247+/-12.453 $\chi^2$/NDF:50.6/25

All: -23.590+/-8.828 $\chi^2$/NDF: 77.1/47




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501460.7/15

Left Out: 41.005+/-0.013 $\chi^2$/NDF:91247.3/6

Right Out: 45.849+/-0.012 $\chi^2$/NDF: 540156.7/18

Left In: 40.761+/-0.013 $\chi^2$/NDF:129804.6/5

Left: 40.883+/-0.009 $\chi^2$/NDF: 221236.7/12

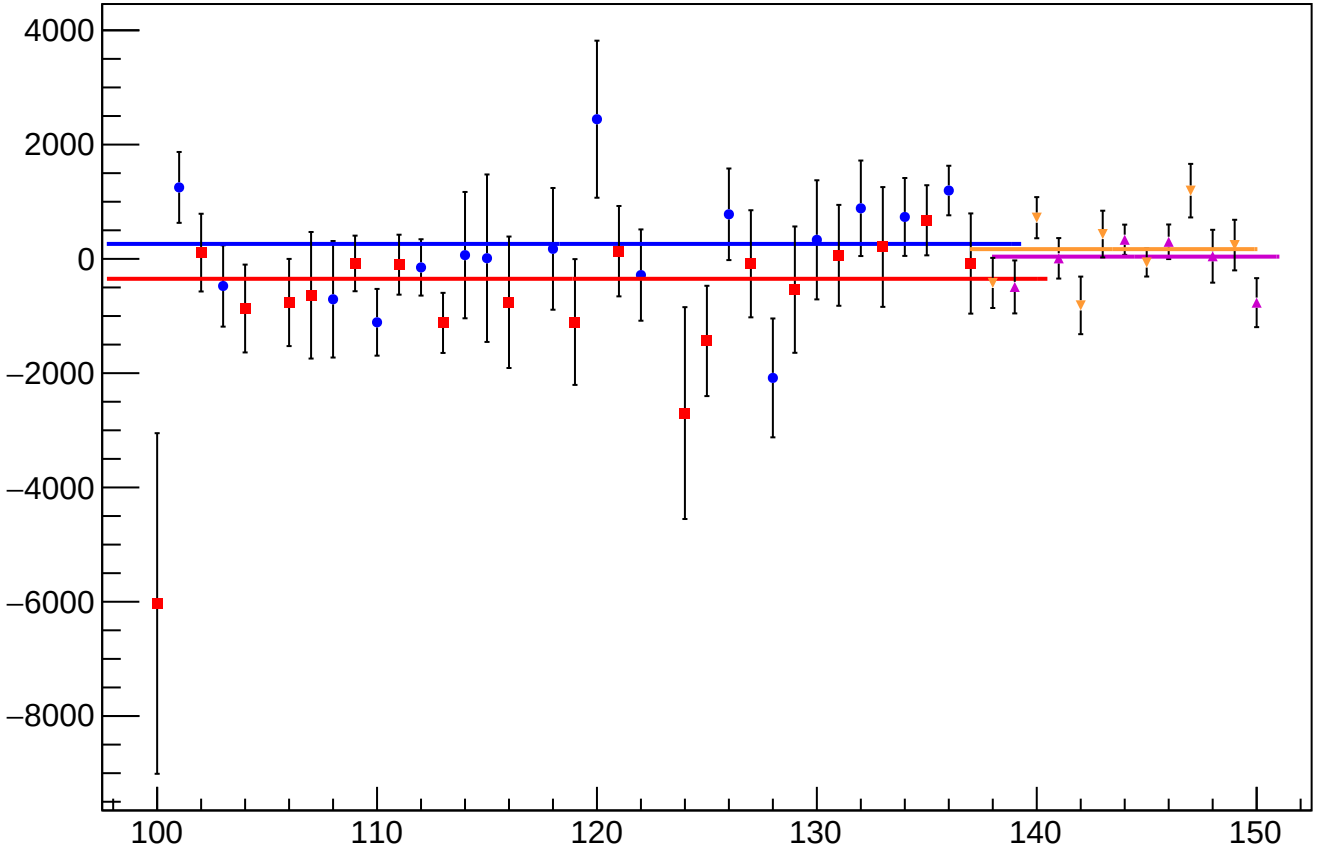
Right: 45.788+/-0.009 $\chi^2$/NDF: 1041667.0/34

In: 43.310+/-0.009 $\chi^2$/NDF:709914.3/21

Out: 43.504+/-0.009 $\chi^2$/NDF:707000.9/25

All: 43.407+/-0.006 $\chi^2$/NDF: 1417157.7/47

asym_sam_15_37_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 261.943+/-185.211 $\chi^2$/NDF: 25.0/15

Left Out: 170.587+/-142.706 $\chi^2$/NDF:14.1/6

Right Out: -348.685+/-180.682 $\chi^2$/NDF: 14.9/18

Left In: 39.293+/-144.436 $\chi^2$/NDF:6.8/5

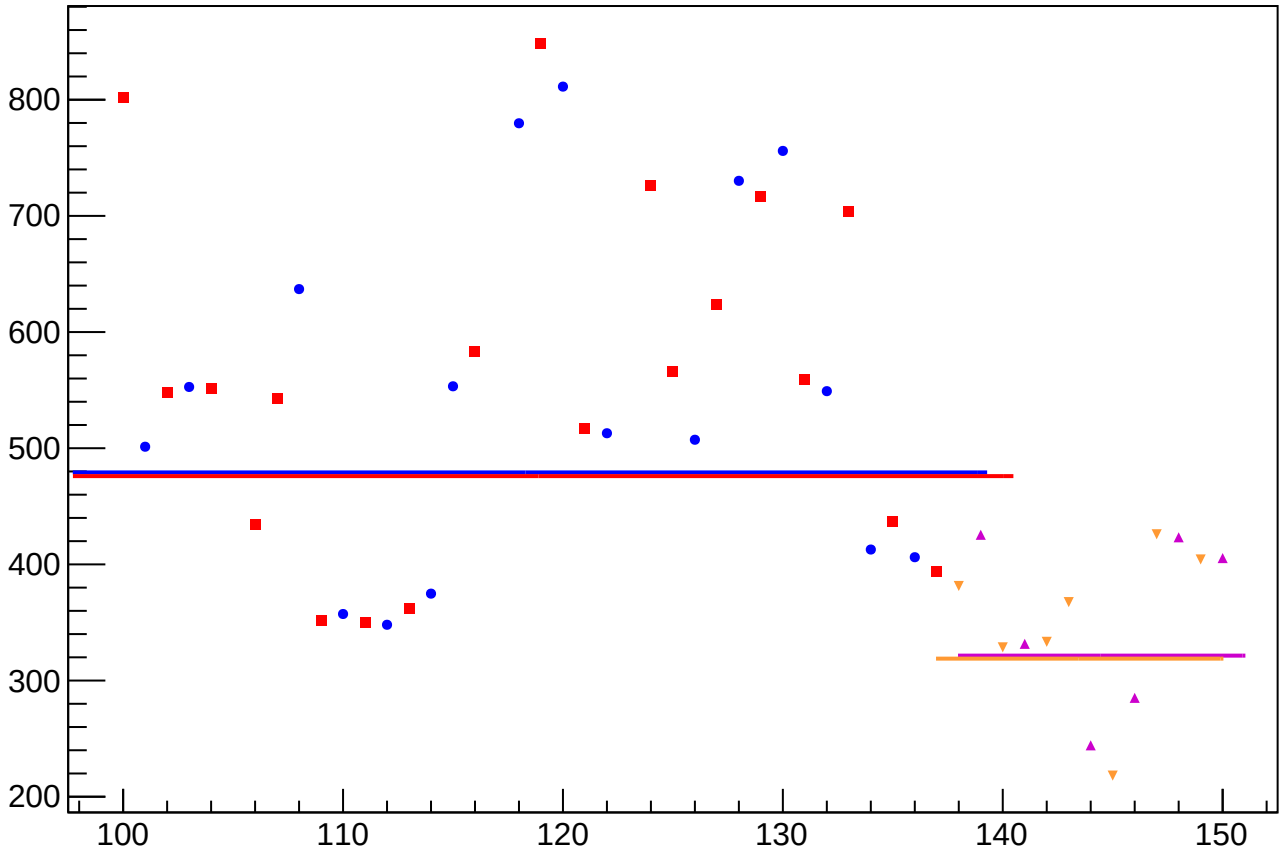
Left: 105.730+/-101.515 $\chi^2$/NDF: 21.3/12

Right: -50.928+/-129.333 $\chi^2$/NDF: 45.5/34

In: 123.493+/-113.896 $\chi^2$/NDF:32.7/21

Out: -28.901+/-111.989 $\chi^2$/NDF:34.1/25

All: 46.009+/-79.854 $\chi^2$/NDF: 67.7/47




Right In: 479.178+/-0.131 $\chi^2$/NDF: 952693.7/15

Left Out: 318.870+/-0.101 $\chi^2$/NDF:587476.4/6

Right Out: 475.992+/-0.128 $\chi^2$/NDF: 1006487.7/18

Left In: 321.457+/-0.102 $\chi^2$/NDF:475320.5/5

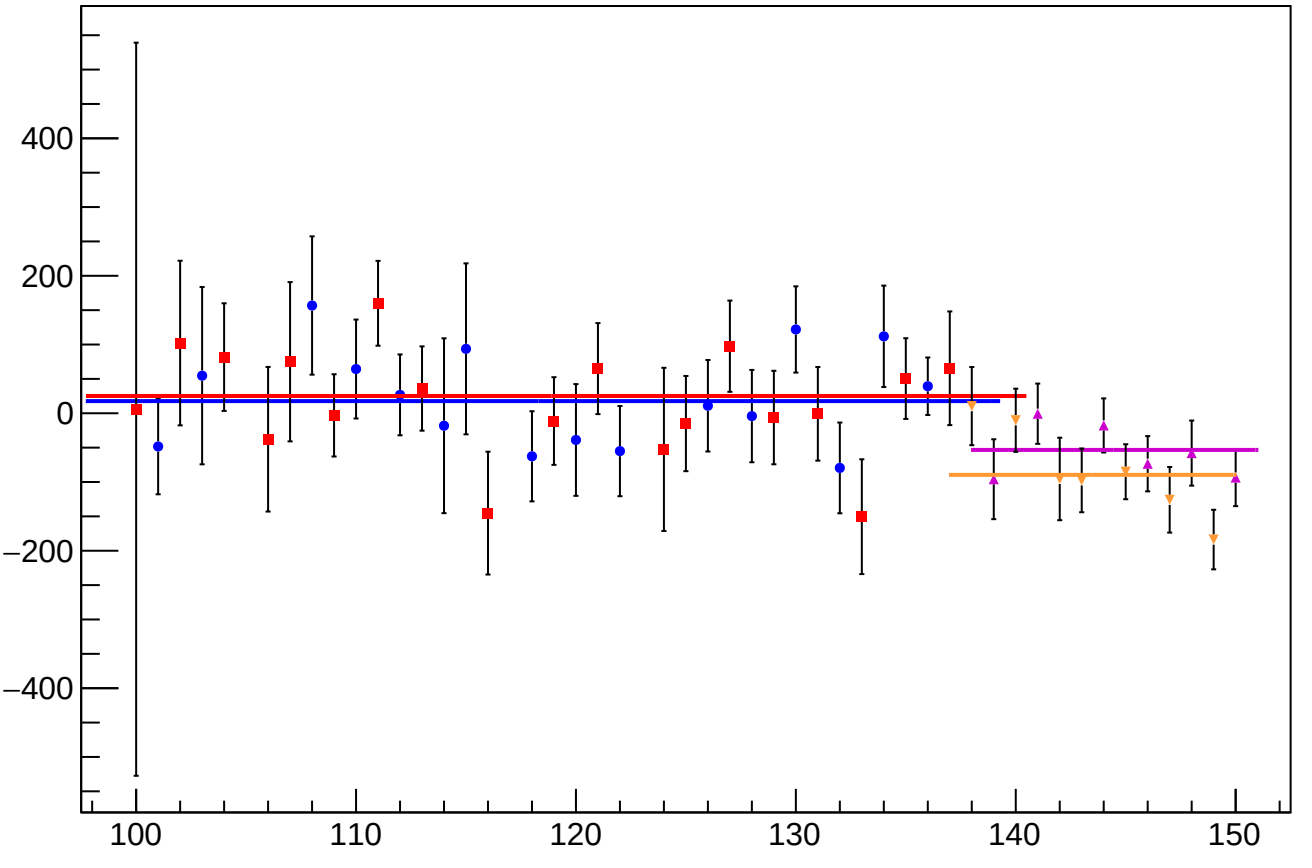
Left: 320.148+/-0.072 $\chi^2$/NDF: 1063121.5/12

Right: 477.545+/-0.091 $\chi^2$/NDF: 1959484.6/34

In: 381.102+/-0.081 $\chi^2$/NDF:2329886.4/21

Out: 379.231+/-0.079 $\chi^2$/NDF:2525359.1/25

All: 380.151+/-0.056 $\chi^2$/NDF: 4855519.9/47




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -89.607+/-17.899 $\chi^2$/NDF:11.4/6

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -53.315+/-17.940 $\chi^2$/NDF:4.0/5

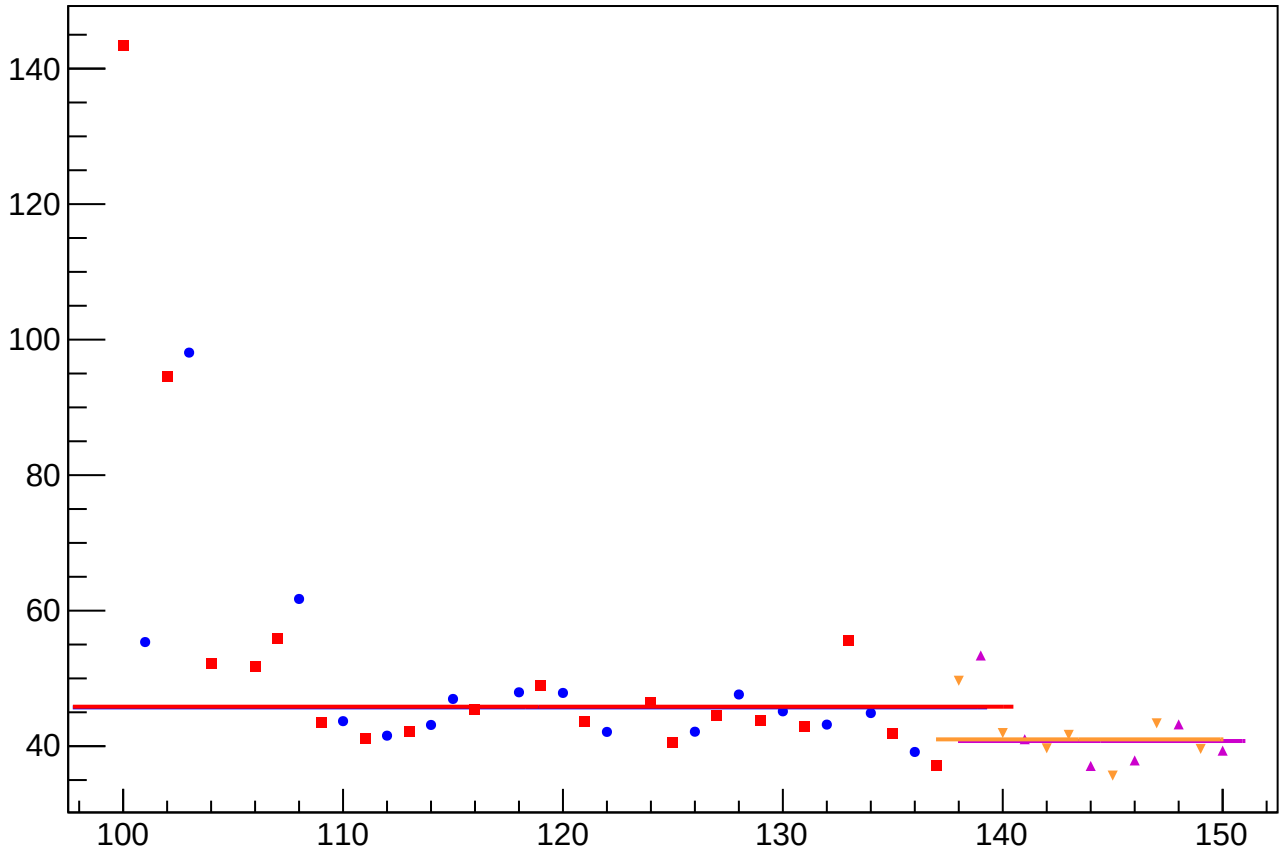
Left: -71.503+/-12.671 $\chi^2$/NDF: 17.5/12

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: -16.861+/-12.516 $\chi^2$/NDF:26.0/21

Out: -30.408+/-12.454 $\chi^2$/NDF:50.6/25

All: -23.668+/-8.828 $\chi^2$/NDF: 77.2/47




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 41.005+/-0.013 $\chi^2$/NDF:91247.3/6

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 40.761+/-0.013 $\chi^2$/NDF:129804.6/5

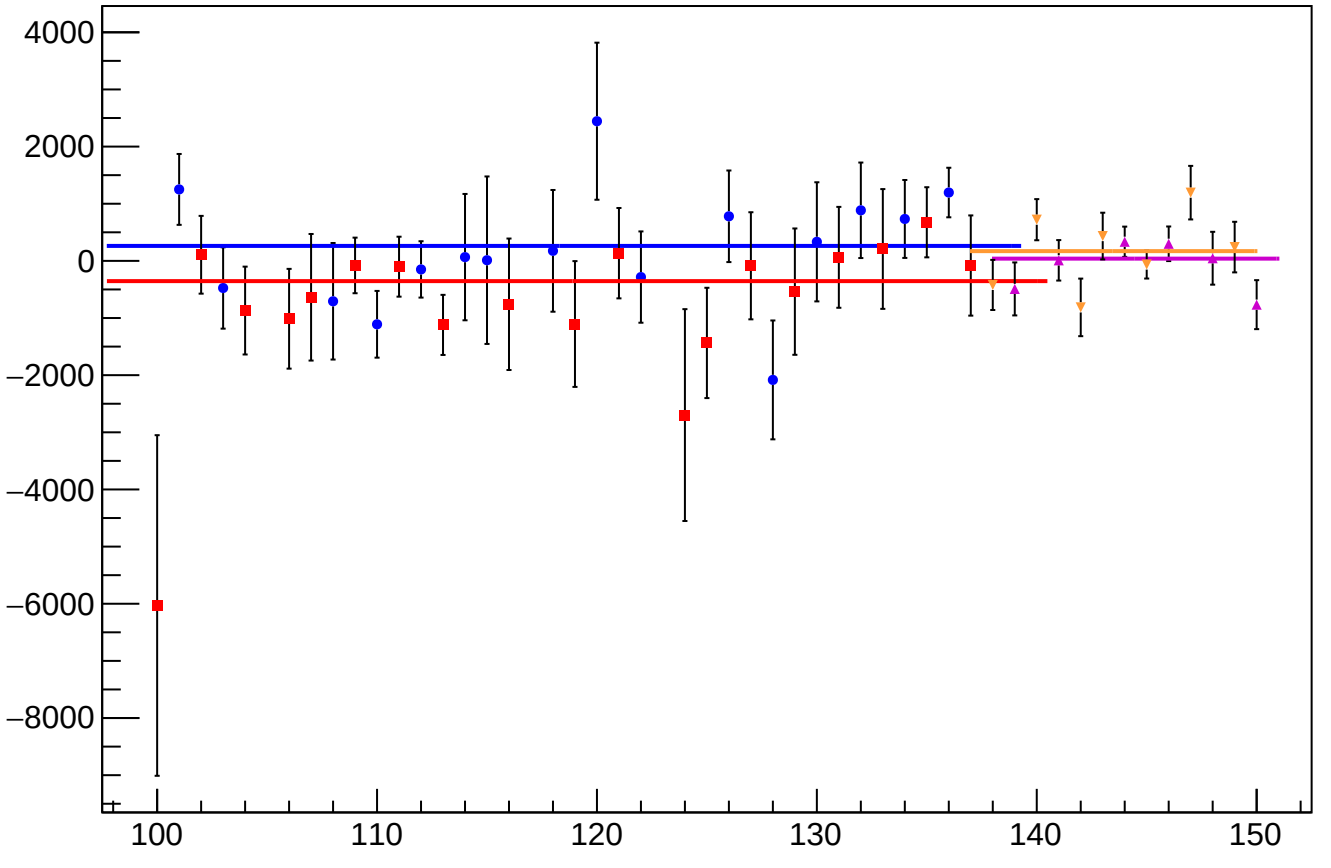
Left: 40.883+/-0.009 $\chi^2$/NDF: 221236.7/12

Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 43.310+/-0.009 $\chi^2$/NDF:709917.3/21

Out: 43.492+/-0.009 $\chi^2$/NDF:704562.3/25

All: 43.401+/-0.006 $\chi^2$/NDF: 1414691.7/47




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 170.585+/-142.706 $\chi^2$/NDF:14.1/6

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: 39.293+/-144.436 $\chi^2$/NDF:6.8/5

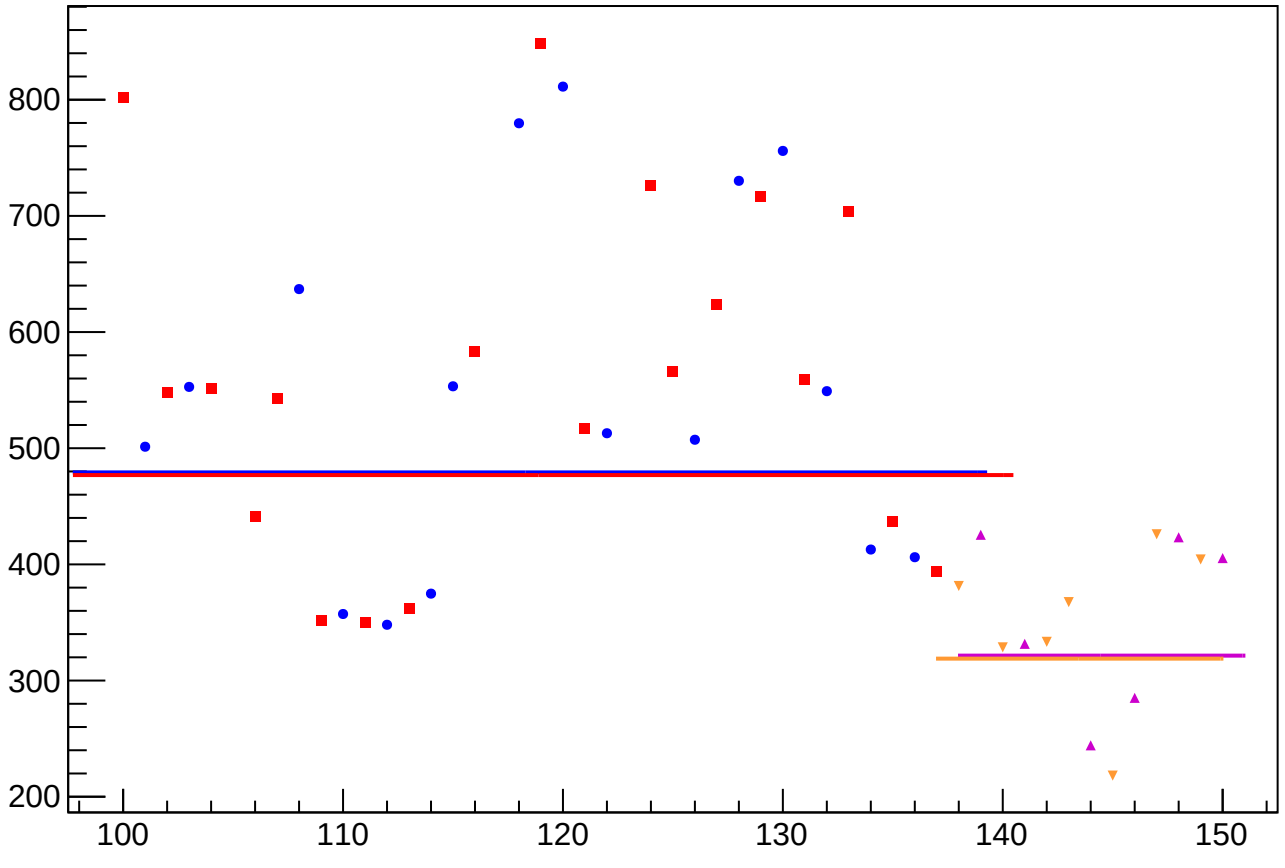
Left: 105.730+/-101.515 $\chi^2$/NDF: 21.3/12

Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 123.494+/-113.897 $\chi^2$/NDF:32.7/21

Out: -29.352+/-112.278 $\chi^2$/NDF:34.5/25

All: 45.976+/-79.959 $\chi^2$/NDF: 68.1/47




Right In: 479.180+/-0.131 $\chi^2$/NDF: 952722.6/15

Left Out: 318.870+/-0.101 $\chi^2$/NDF:587476.0/6

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 321.457+/-0.102 $\chi^2$/NDF:475322.1/5

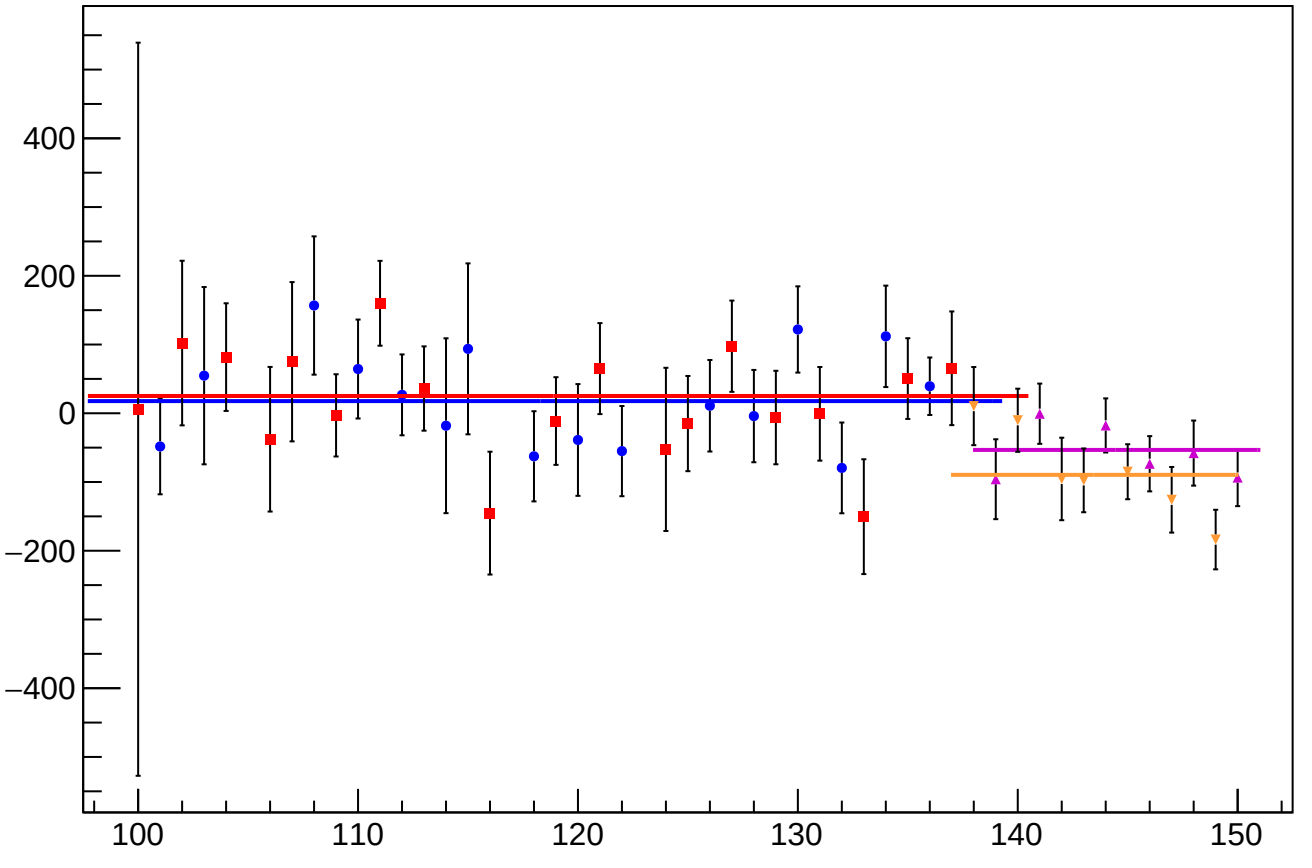
Left: 320.148+/-0.072 $\chi^2$/NDF: 1063122.8/12

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 381.103+/-0.081 $\chi^2$/NDF:2329933.1/21

Out: 379.075+/-0.079 $\chi^2$/NDF:2525551.8/25

All: 380.074+/-0.057 $\chi^2$/NDF: 4855806.6/47




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -89.607+/-17.899 $\chi^2$/NDF:11.4/6

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -53.315+/-17.940 $\chi^2$/NDF:4.0/5

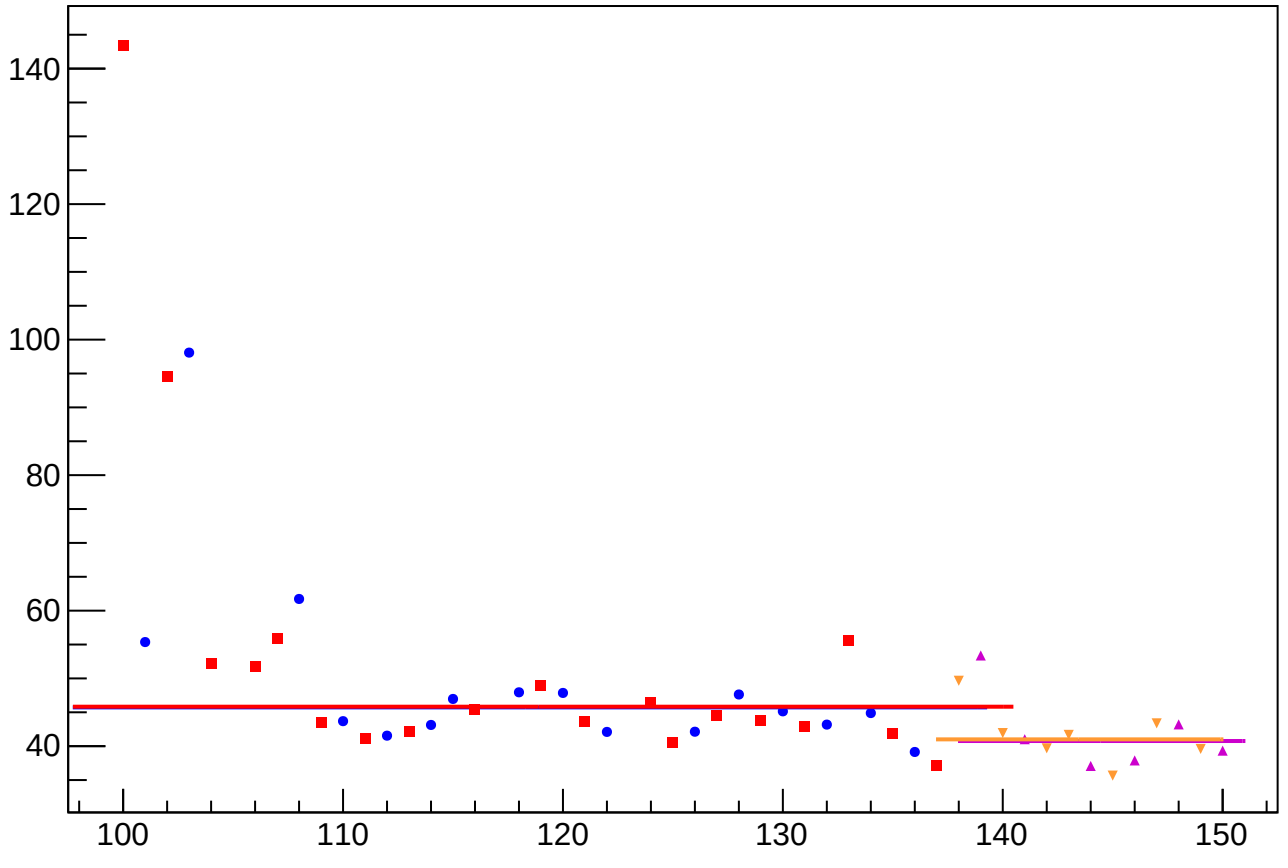
Left: -71.503+/-12.671 $\chi^2$/NDF: 17.5/12

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: -16.861+/-12.516 $\chi^2$/NDF:26.0/21

Out: -30.408+/-12.454 $\chi^2$/NDF:50.6/25

All: -23.668+/-8.828 $\chi^2$/NDF: 77.2/47




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 41.005+/-0.013 $\chi^2$/NDF:91247.3/6

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 40.761+/-0.013 $\chi^2$/NDF:129804.6/5

Left: 40.883+/-0.009 $\chi^2$/NDF: 221236.7/12

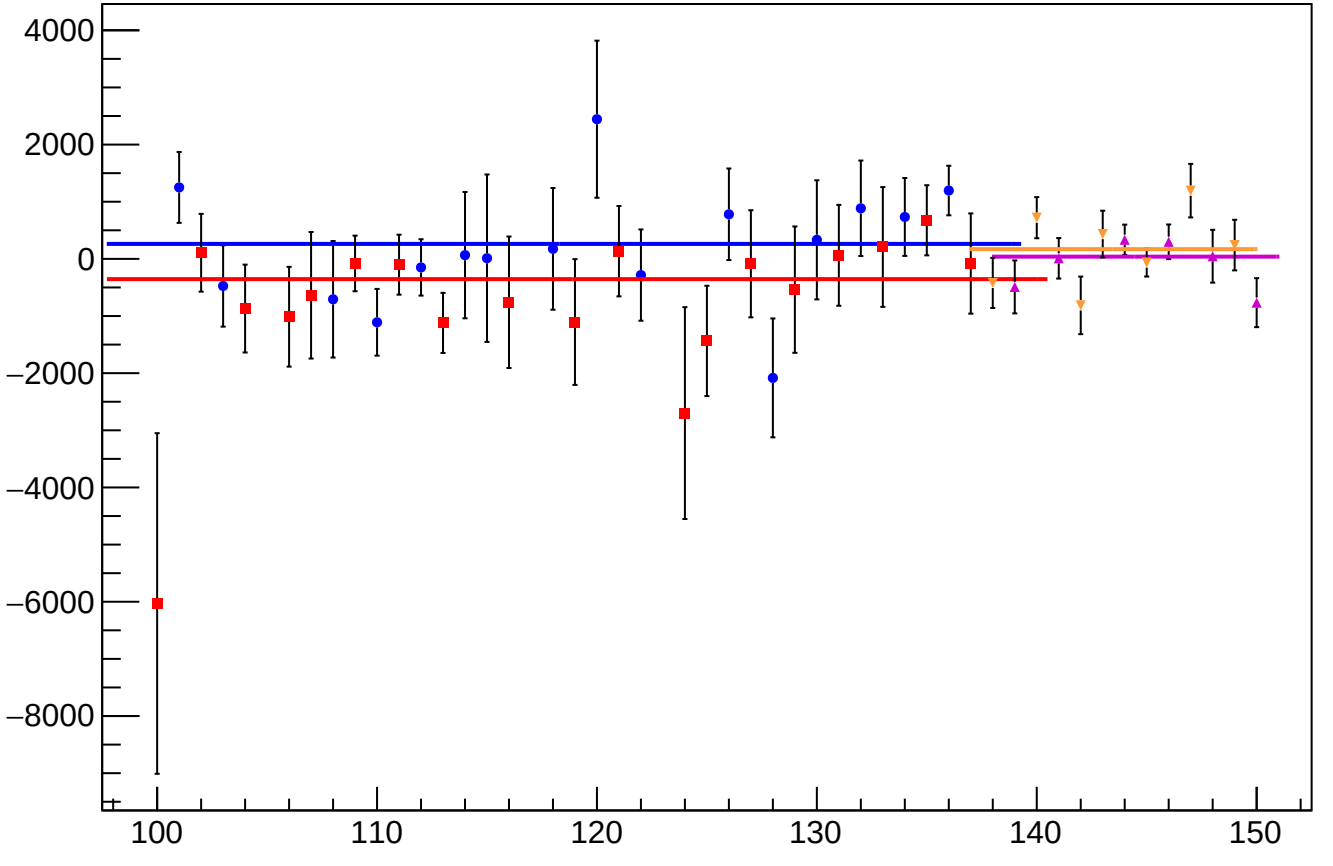
Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 43.310+/-0.009 $\chi^2$/NDF:709917.3/21

Out: 43.492+/-0.009 $\chi^2$/NDF:704562.3/25

All: 43.401+/-0.006 $\chi^2$/NDF: 1414691.7/47

asym_sam_15_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 170.585+/-142.706 $\chi^2$/NDF:14.1/6

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: 39.293+/-144.436 $\chi^2$/NDF:6.8/5

Left: 105.730+/-101.515 $\chi^2$/NDF: 21.3/12

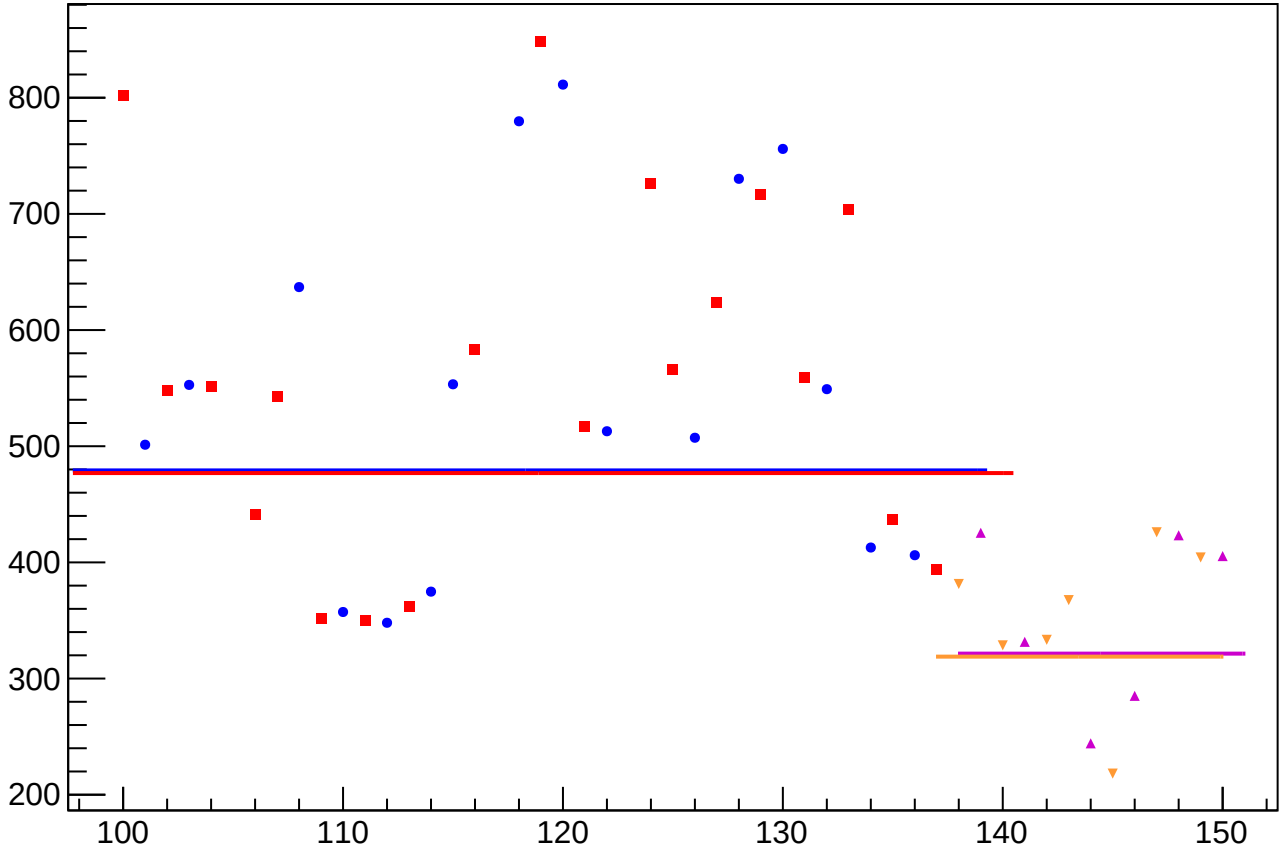
Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 123.494+/-113.897 $\chi^2$/NDF:32.7/21

Out: -29.352+/-112.278 $\chi^2$/NDF:34.5/25

All: 45.976+/-79.959 $\chi^2$/NDF: 68.1/47

asym_sam_15_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 479.180+/-0.131 $\chi^2$/NDF: 952722.6/15

Left Out: 318.870+/-0.101 $\chi^2$/NDF:587476.0/6

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 321.457+/-0.102 $\chi^2$/NDF:475322.1/5

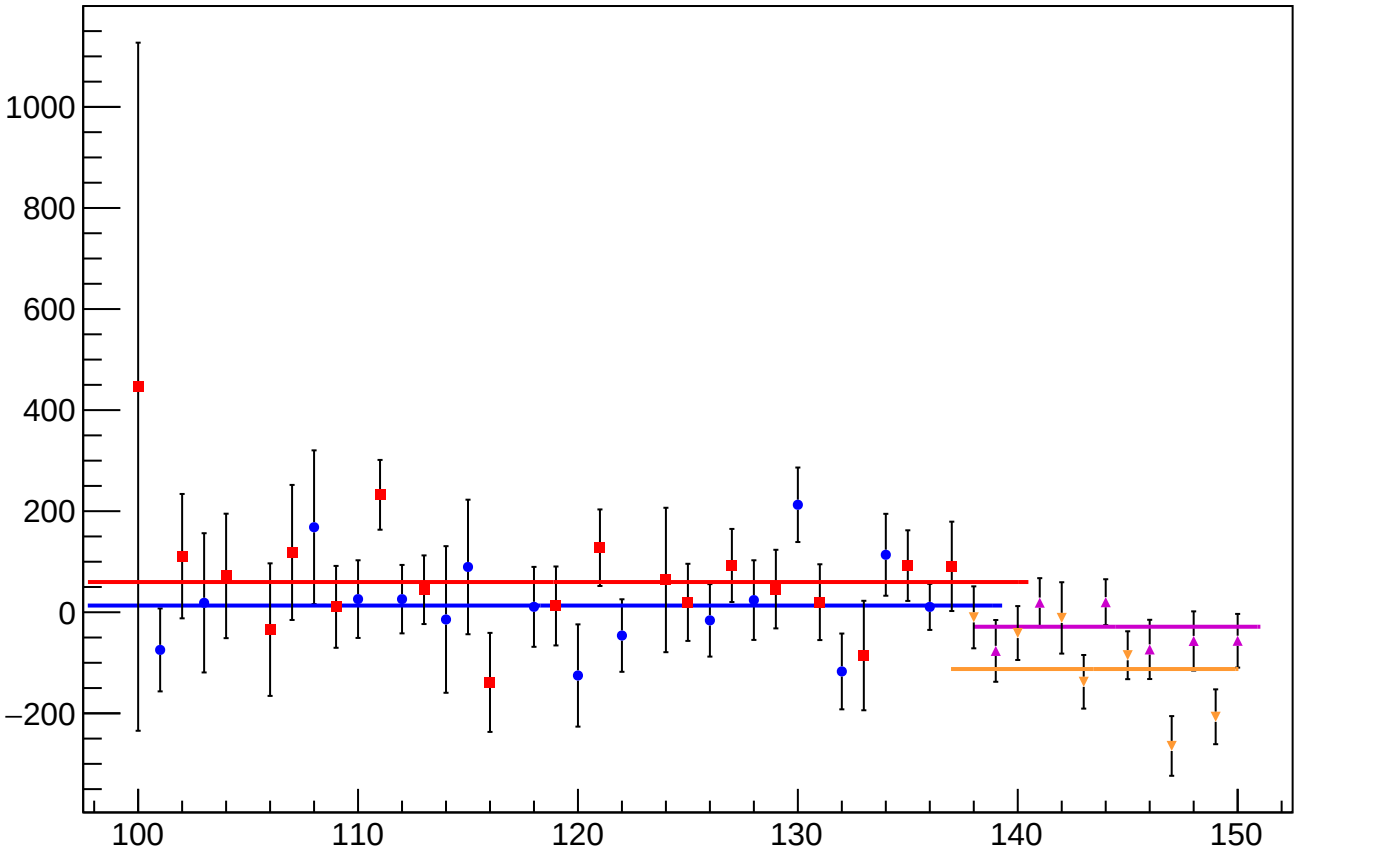
Left: 320.148+/-0.072 $\chi^2$/NDF: 1063122.8/12

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 381.103+/-0.081 $\chi^2$/NDF:2329933.1/21

Out: 379.075+/-0.079 $\chi^2$/NDF:2525551.8/25

All: 380.074+/-0.057 $\chi^2$/NDF: 4855806.6/47




Right In: 13.266+/-19.849 $\chi^2$/NDF: 17.2/15

Left Out: -112.338+/-21.105 $\chi^2$/NDF:16.9/6

Right Out: 59.810+/-20.234 $\chi^2$/NDF: 16.1/18

Left In: -28.665+/-21.741 $\chi^2$/NDF:3.8/5

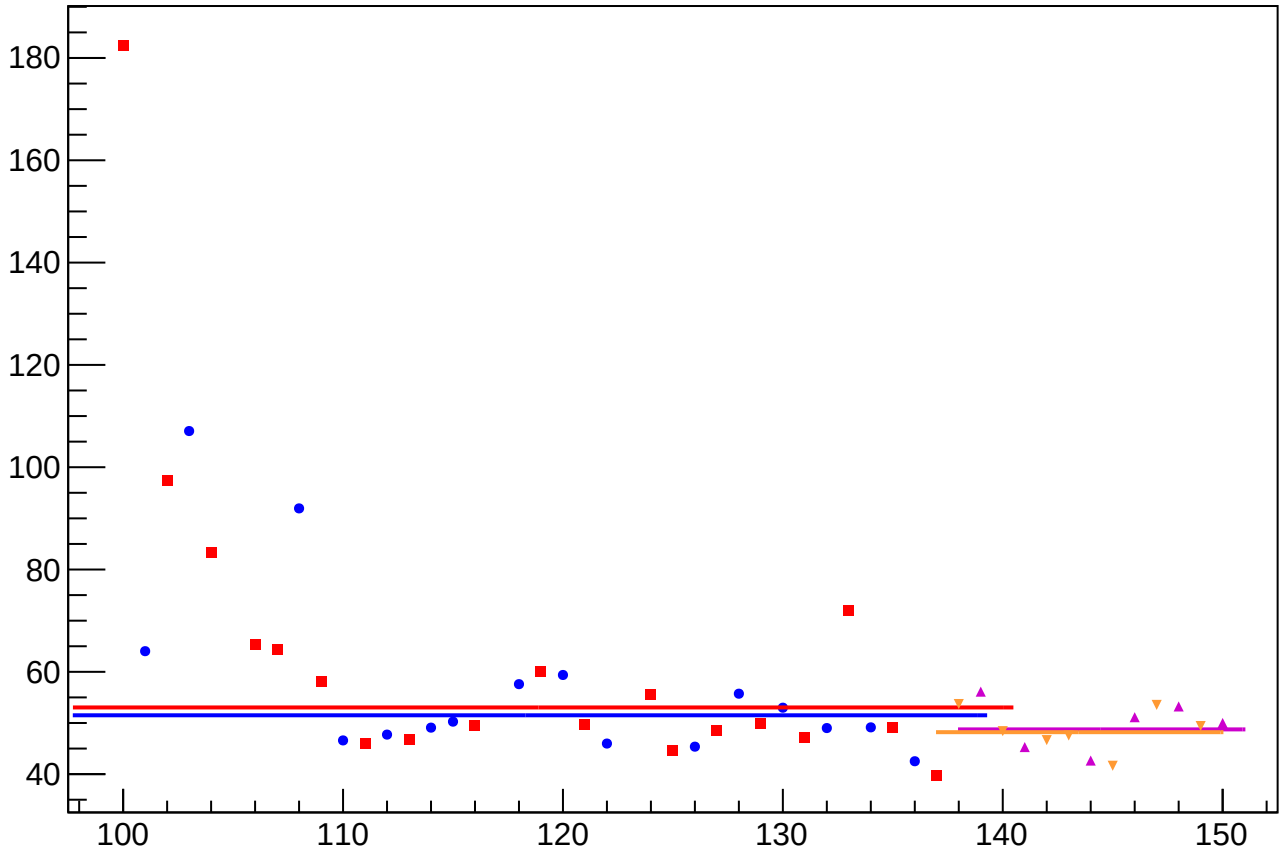
Left: -71.744+/-15.143 $\chi^2$/NDF: 28.3/12

Right: 36.091+/-14.170 $\chi^2$/NDF: 36.0/34

In: -5.796+/-14.659 $\chi^2$/NDF:23.1/21

Out: -22.638+/-14.606 $\chi^2$/NDF:67.6/25

All: -14.248+/-10.347 $\chi^2$/NDF: 91.4/47




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667059.0/15

Left Out: 48.204+/-0.015 $\chi^2$/NDF:73049.5/6

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712908.4/18

Left In: 48.747+/-0.015 $\chi^2$/NDF:91489.2/5

Left: 48.467+/-0.011 $\chi^2$/NDF: 165183.2/12

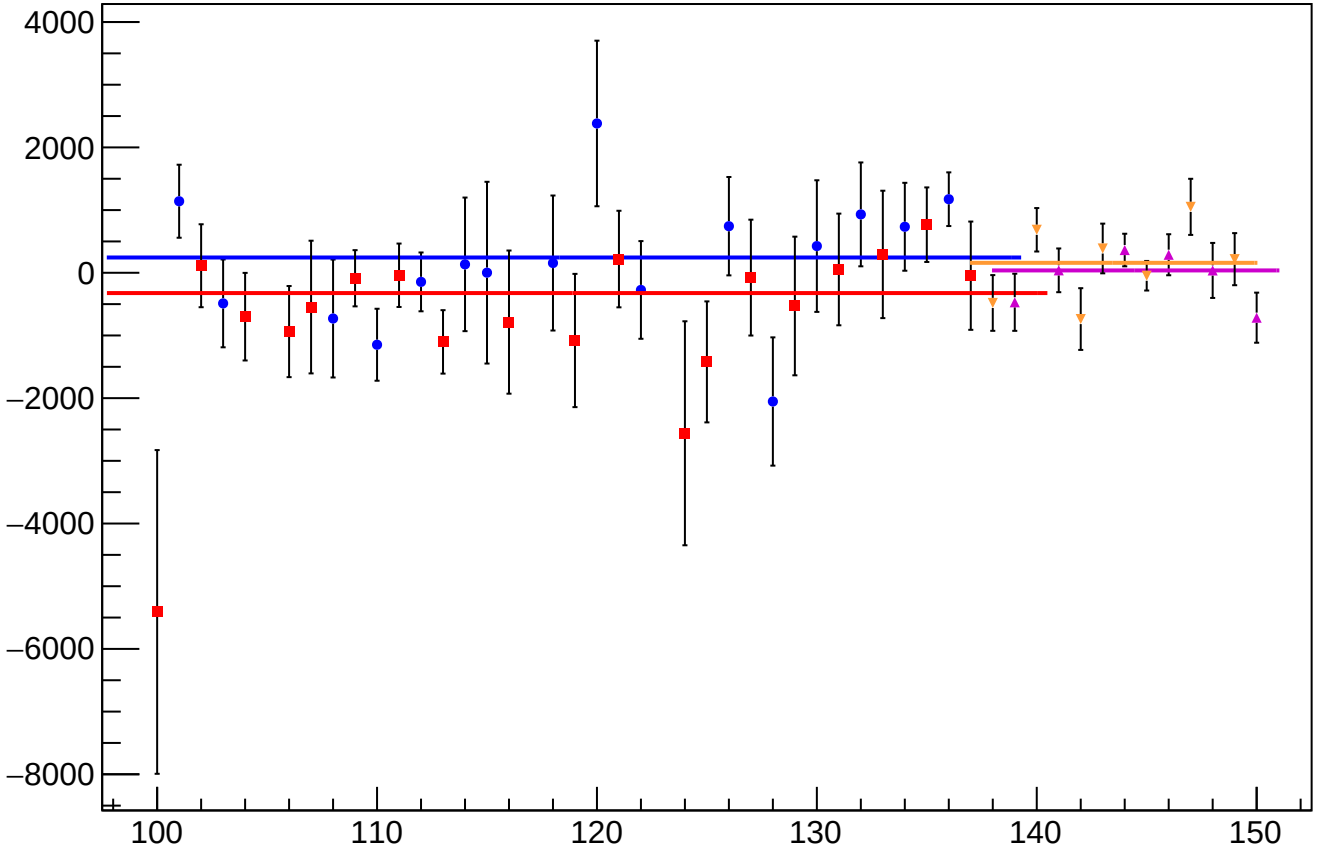
Right: 52.257+/-0.010 $\chi^2$/NDF: 1385808.8/34

In: 50.252+/-0.010 $\chi^2$/NDF:776102.8/21

Out: 50.722+/-0.010 $\chi^2$/NDF:840626.5/25

All: 50.488+/-0.007 $\chi^2$/NDF: 1617763.5/47

asym_sam_15_37_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 243.828+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 158.760+/-137.831 $\chi^2$/NDF:12.8/6

Right Out: -323.628+/-173.632 $\chi^2$/NDF: 16.5/18

Left In: 37.484+/-143.398 $\chi^2$/NDF:7.0/5

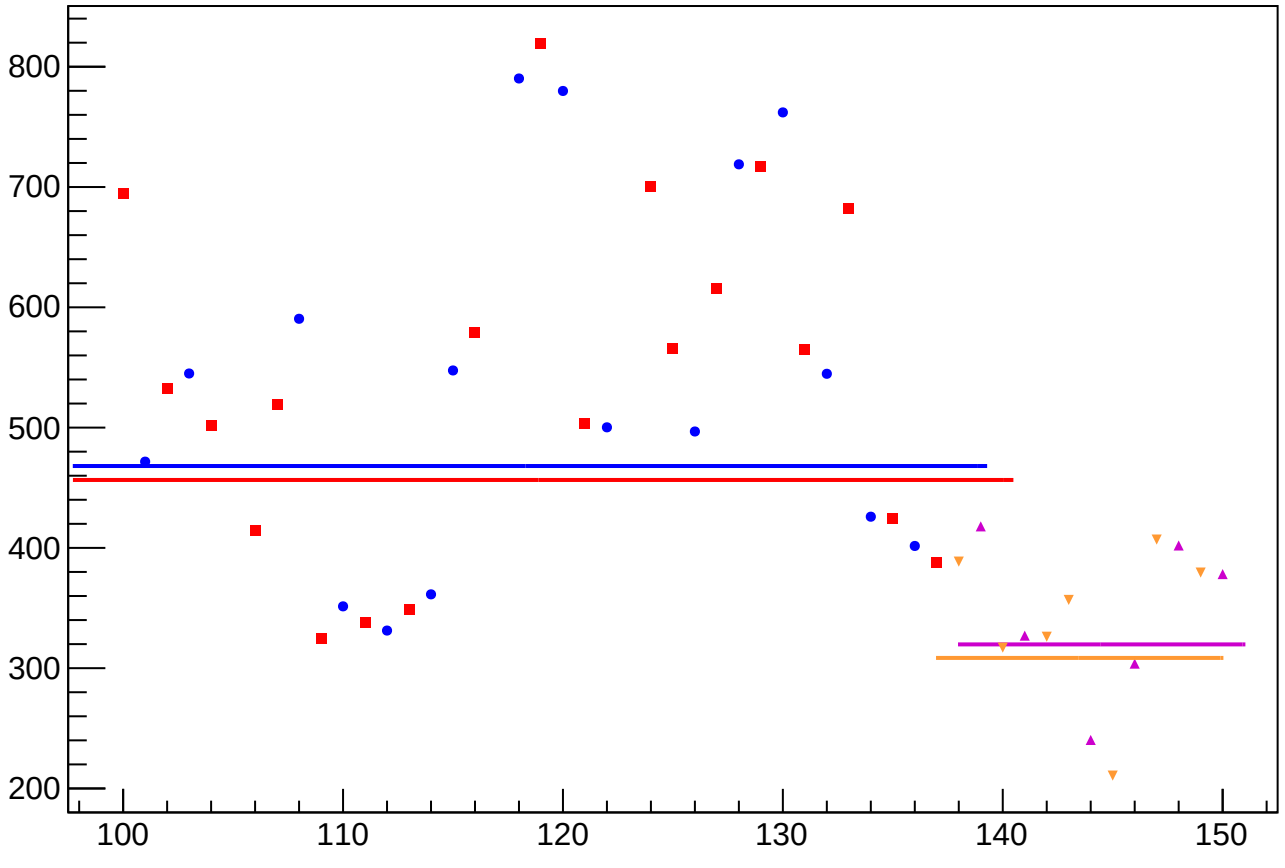
Left: 100.522+/-99.371 $\chi^2$/NDF: 20.1/12

Right: -51.485+/-125.258 $\chi^2$/NDF: 47.2/34

In: 117.124+/-112.368 $\chi^2$/NDF:33.3/21

Out: -27.709+/-107.953 $\chi^2$/NDF:34.0/25

All: 41.806+/-77.848 $\chi^2$/NDF: 68.2/47




Right In: 468.066+/-0.128 $\chi^2$/NDF: 982915.0/15

Left Out: 308.527+/-0.097 $\chi^2$/NDF:597366.6/6

Right Out: 456.468+/-0.123 $\chi^2$/NDF: 1082568.2/18

Left In: 319.768+/-0.101 $\chi^2$/NDF:398213.1/5

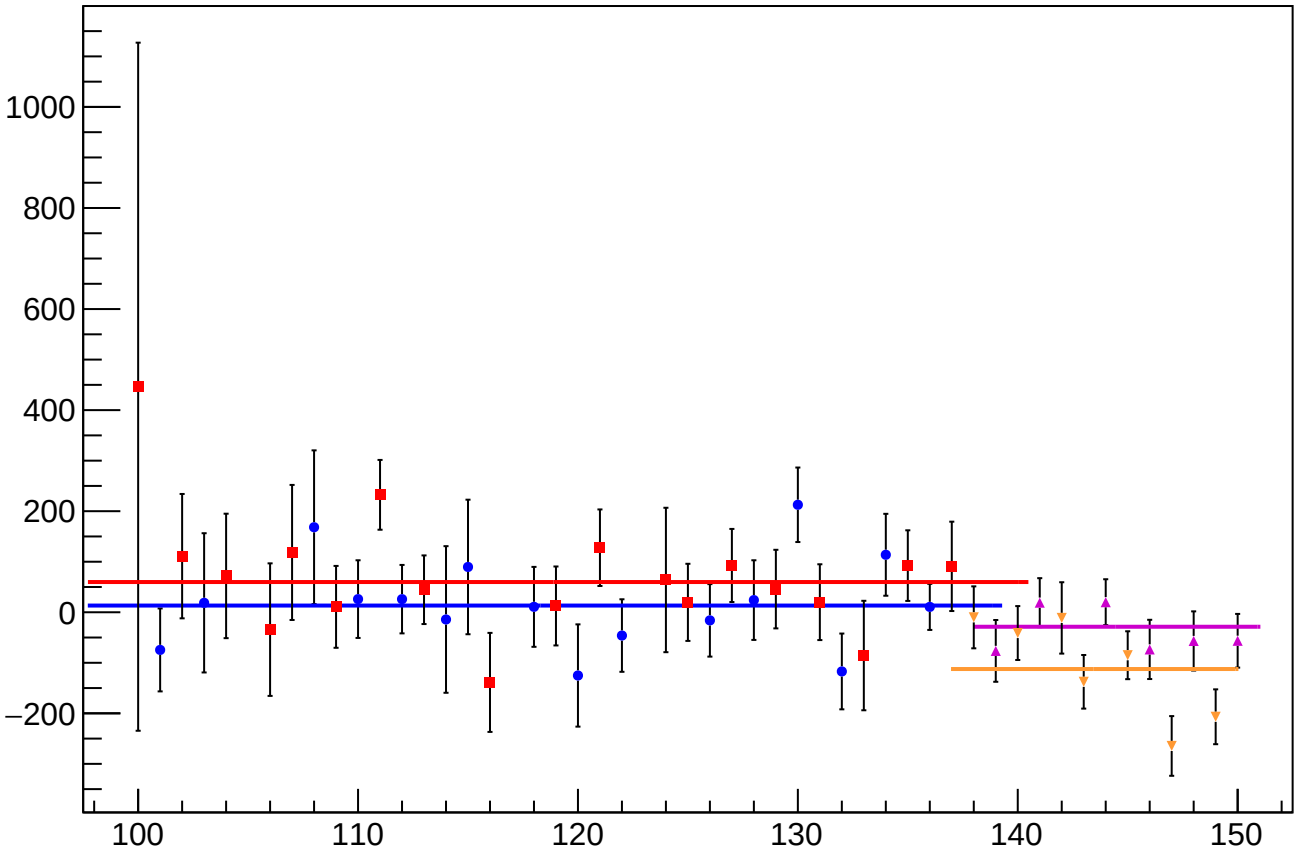
Left: 313.925+/-0.070 $\chi^2$/NDF: 1001968.0/12

Right: 462.030+/-0.089 $\chi^2$/NDF: 2069762.6/34

In: 377.005+/-0.079 $\chi^2$/NDF:2206691.8/21

Out: 365.715+/-0.076 $\chi^2$/NDF:2570616.7/25

All: 371.134+/-0.055 $\chi^2$/NDF: 4787808.9/47




Right In: 13.266+/-19.849 $\chi^2$/NDF: 17.2/15

Left Out: -112.338+/-21.105 $\chi^2$/NDF:16.9/6

Right Out: 59.811+/-20.234 $\chi^2$/NDF: 16.1/18

Left In: -28.665+/-21.741 $\chi^2$/NDF:3.8/5

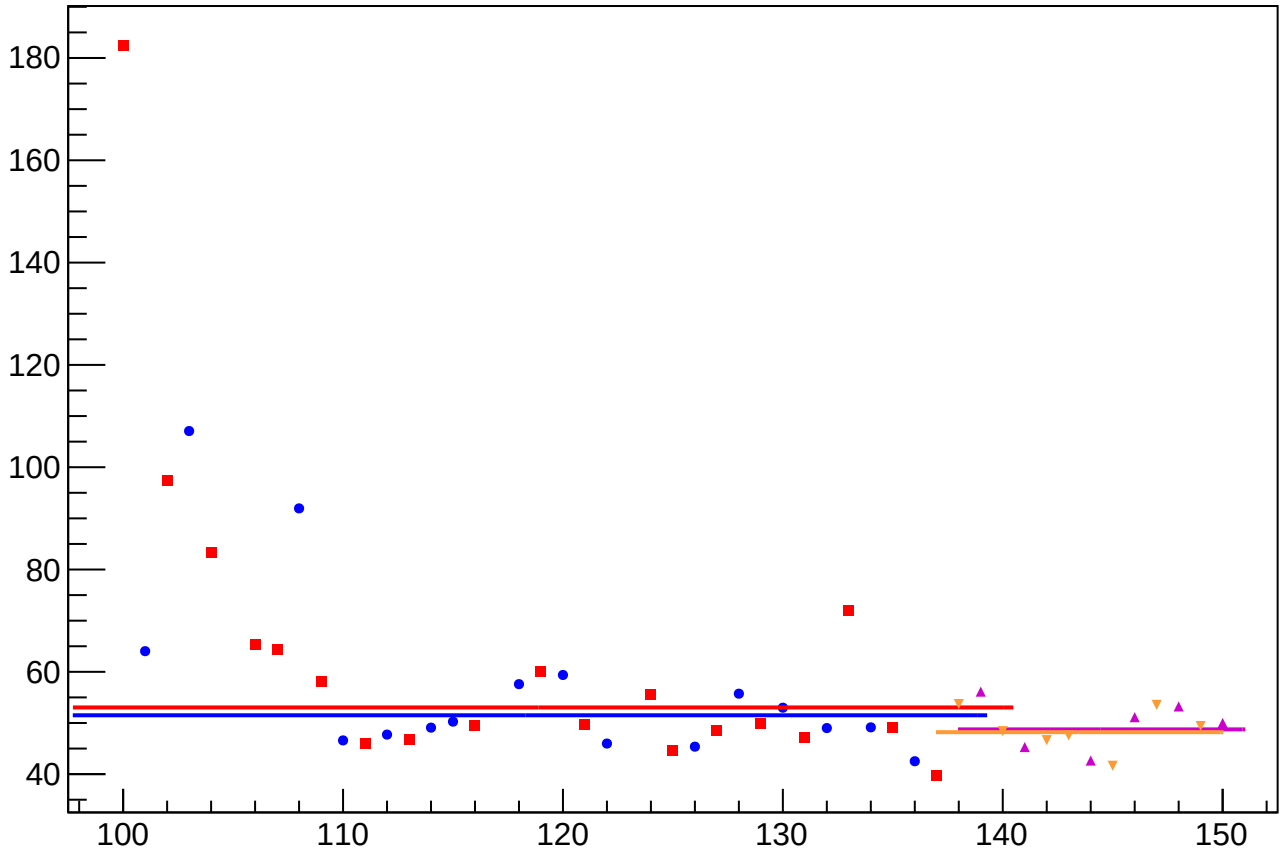
Left: -71.744+/-15.143 $\chi^2$/NDF: 28.3/12

Right: 36.092+/-14.170 $\chi^2$/NDF: 36.0/34

In: -5.796+/-14.659 $\chi^2$/NDF:23.1/21

Out: -22.638+/-14.606 $\chi^2$/NDF:67.6/25

All: -14.247+/-10.347 $\chi^2$/NDF: 91.4/47




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667064.6/15

Left Out: 48.204+/-0.015 $\chi^2$/NDF:73048.9/6

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712918.4/18

Left In: 48.747+/-0.015 $\chi^2$/NDF:91488.3/5

Left: 48.467+/-0.011 $\chi^2$/NDF: 165181.5/12

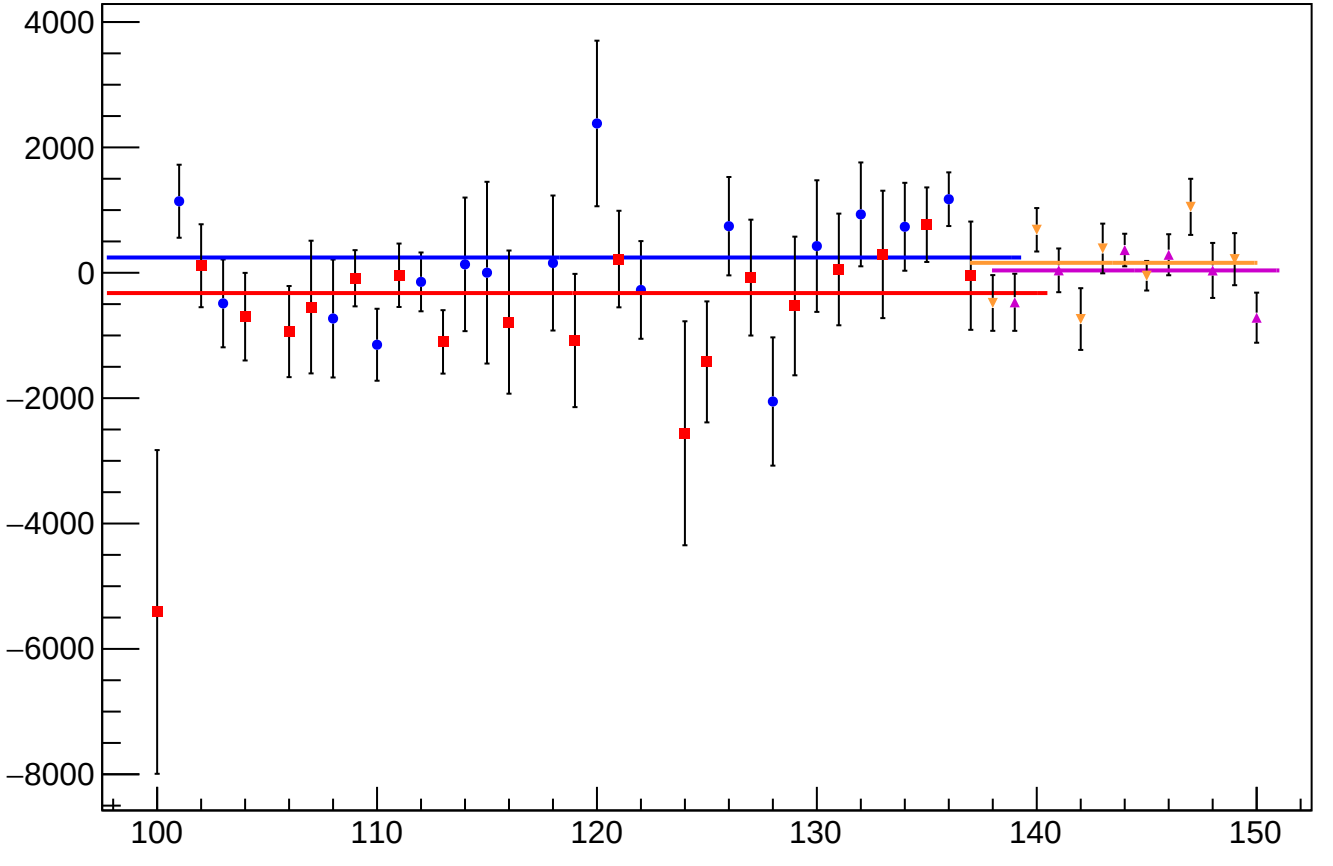
Right: 52.257+/-0.010 $\chi^2$/NDF: 1385824.6/34

In: 50.252+/-0.010 $\chi^2$/NDF:776107.4/21

Out: 50.722+/-0.010 $\chi^2$/NDF:840635.5/25

All: 50.488+/-0.007 $\chi^2$/NDF: 1617777.1/47

asym_sam_15_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 243.826+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 158.761+/-137.831 $\chi^2$/NDF:12.8/6

Right Out: -323.628+/-173.631 $\chi^2$/NDF: 16.5/18

Left In: 37.484+/-143.398 $\chi^2$/NDF:7.0/5

Left: 100.523+/-99.371 $\chi^2$/NDF: 20.1/12

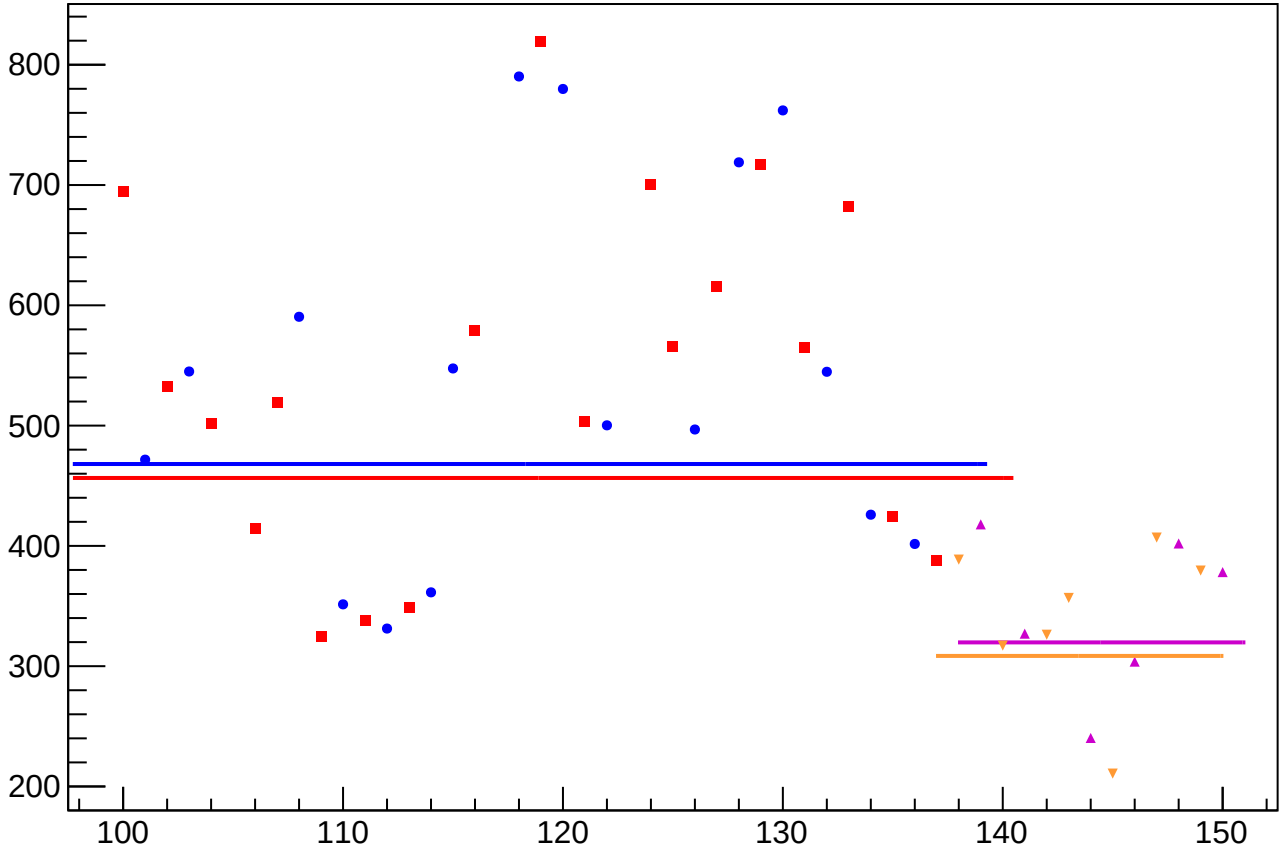
Right: -51.485+/-125.257 $\chi^2$/NDF: 47.2/34

In: 117.124+/-112.368 $\chi^2$/NDF:33.3/21

Out: -27.709+/-107.953 $\chi^2$/NDF:34.0/25

All: 41.806+/-77.848 $\chi^2$/NDF: 68.2/47

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 468.065+/-0.128 $\chi^2$/NDF: 982915.8/15

Left Out: 308.527+/-0.097 $\chi^2$/NDF:597370.7/6

Right Out: 456.467+/-0.123 $\chi^2$/NDF: 1082565.2/18

Left In: 319.769+/-0.101 $\chi^2$/NDF:398215.6/5

Left: 313.926+/-0.070 $\chi^2$/NDF: 1001975.0/12

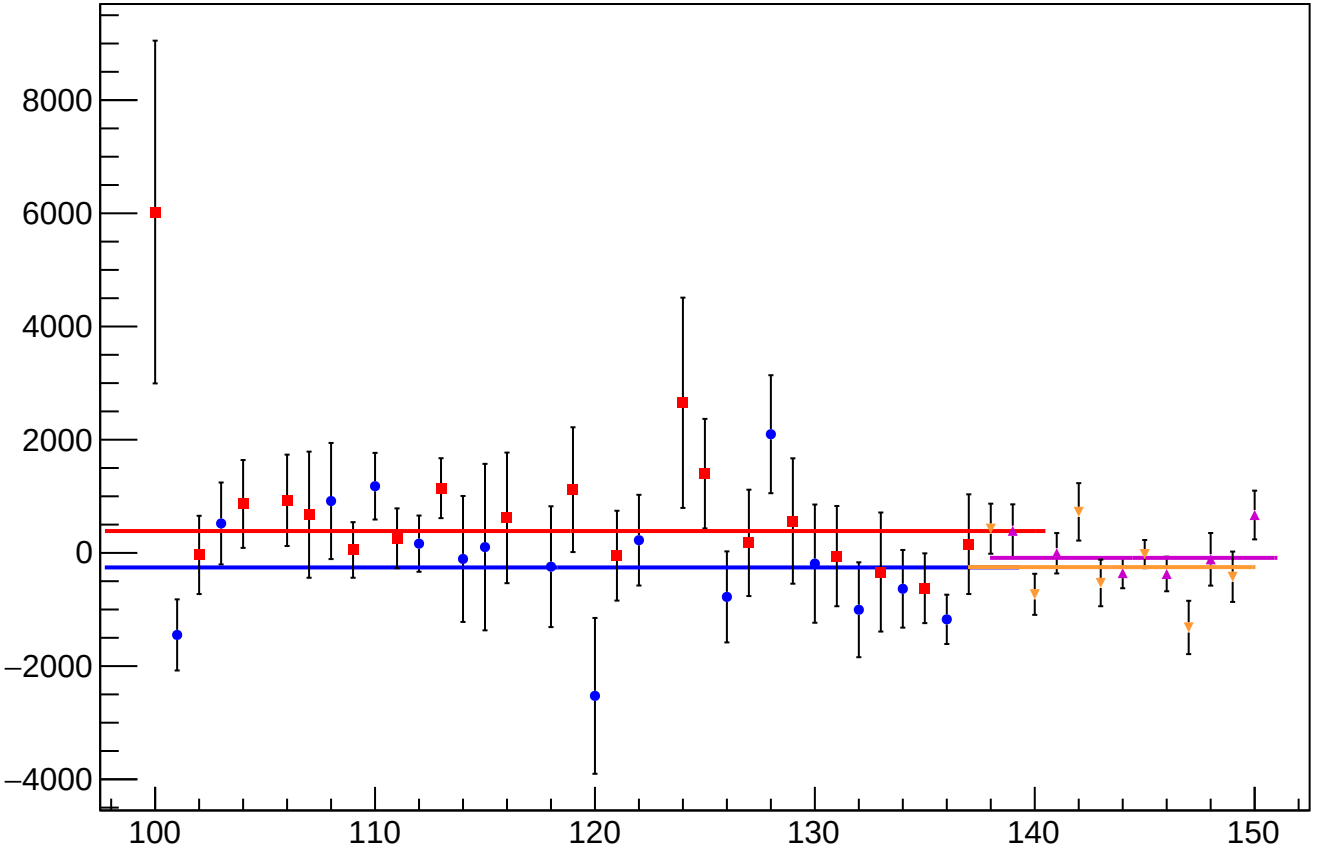
Right: 462.029+/-0.089 $\chi^2$/NDF: 2069760.5/34

In: 377.005+/-0.079 $\chi^2$/NDF:2206684.5/21

Out: 365.714+/-0.076 $\chi^2$/NDF:2570610.8/25

All: 371.134+/-0.055 $\chi^2$/NDF: 4787796.0/47

# asym_sam_15_37_dd_mean vs Slug, Sign Corrected




Right In: -256.748+/-186.462 $\chi^2$/NDF: 26.9/15

Left Out: -250.764+/-144.002 $\chi^2$/NDF:14.4/6

Right Out: 386.449+/-182.363 $\chi^2$/NDF: 14.2/18

Left In: -87.540+/-145.706 $\chi^2$/NDF:6.1/5

Left: -170.112+/-102.422 $\chi^2$/NDF: 21.1/12

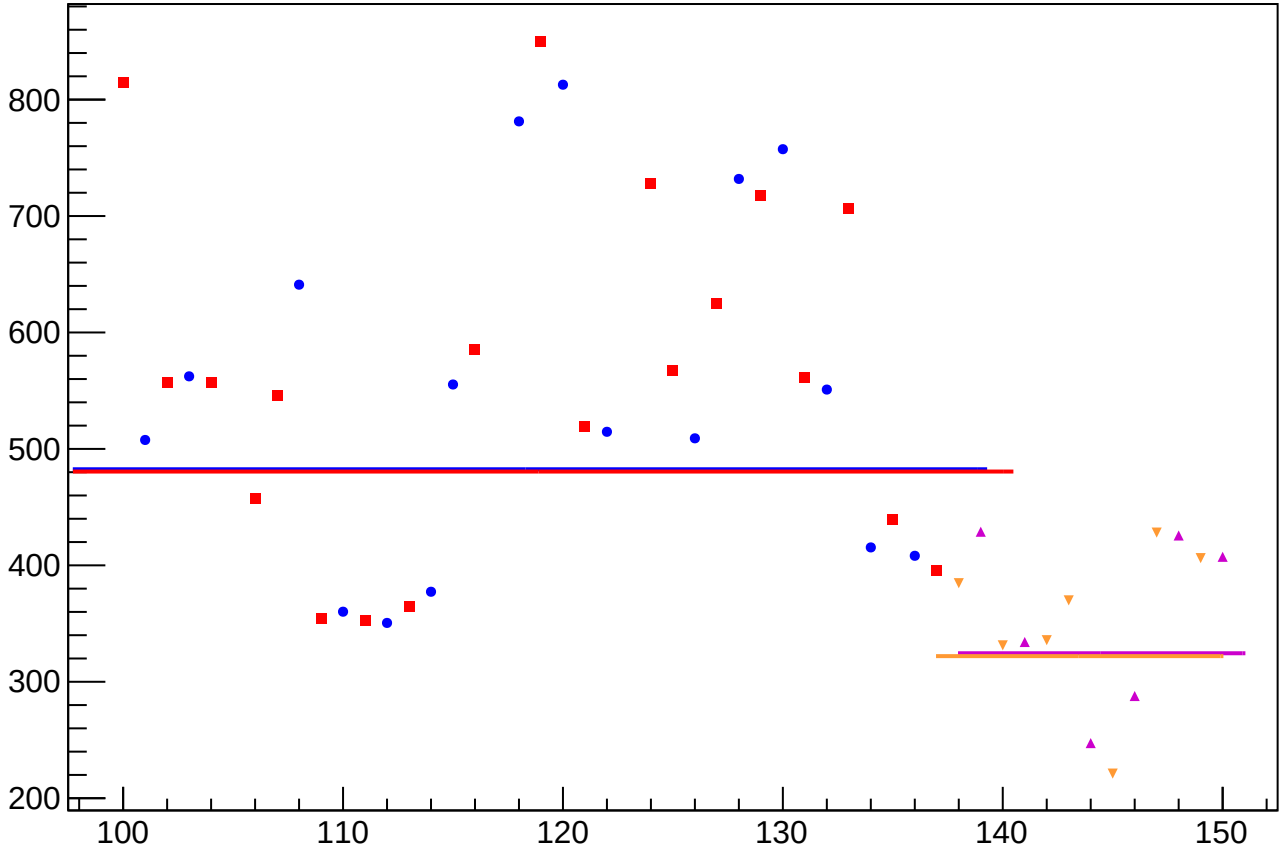
Right: 71.997+/-130.375 $\chi^2$/NDF: 47.2/34

In: -151.691+/-114.810 $\chi^2$/NDF:33.5/21

Out: -6.036+/-113.015 $\chi^2$/NDF:36.1/25

All: -77.716+/-80.541 $\chi^2$/NDF: 70.5/47

# asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 482.512+/-0.132 $\chi^2$/NDF: 946526.1/15

Left Out: 322.025+/-0.102 $\chi^2$/NDF:572032.5/6

Right Out: 480.559+/-0.129 $\chi^2$/NDF: 993796.3/18

Left In: 324.499+/-0.103 $\chi^2$/NDF:464831.5/5

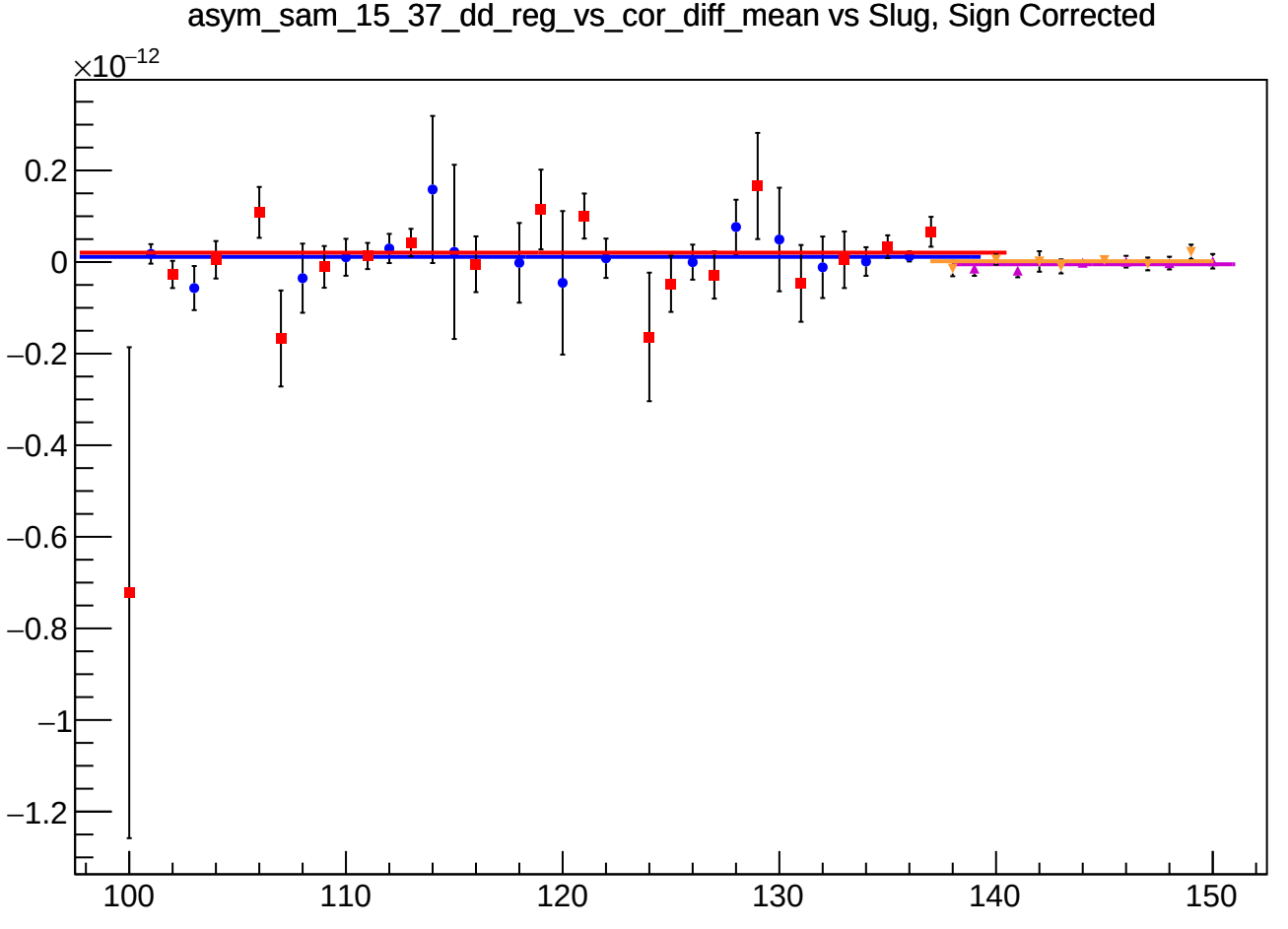
Left: 323.248+/-0.072 $\chi^2$/NDF: 1037155.7/12

Right: 481.514+/-0.092 $\chi^2$/NDF: 1940434.6/34

In: 384.406+/-0.081 $\chi^2$/NDF:2303106.9/21

Out: 382.912+/-0.080 $\chi^2$/NDF:2496808.6/25

All: 383.647+/-0.057 $\chi^2$/NDF: 4800087.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.8/5

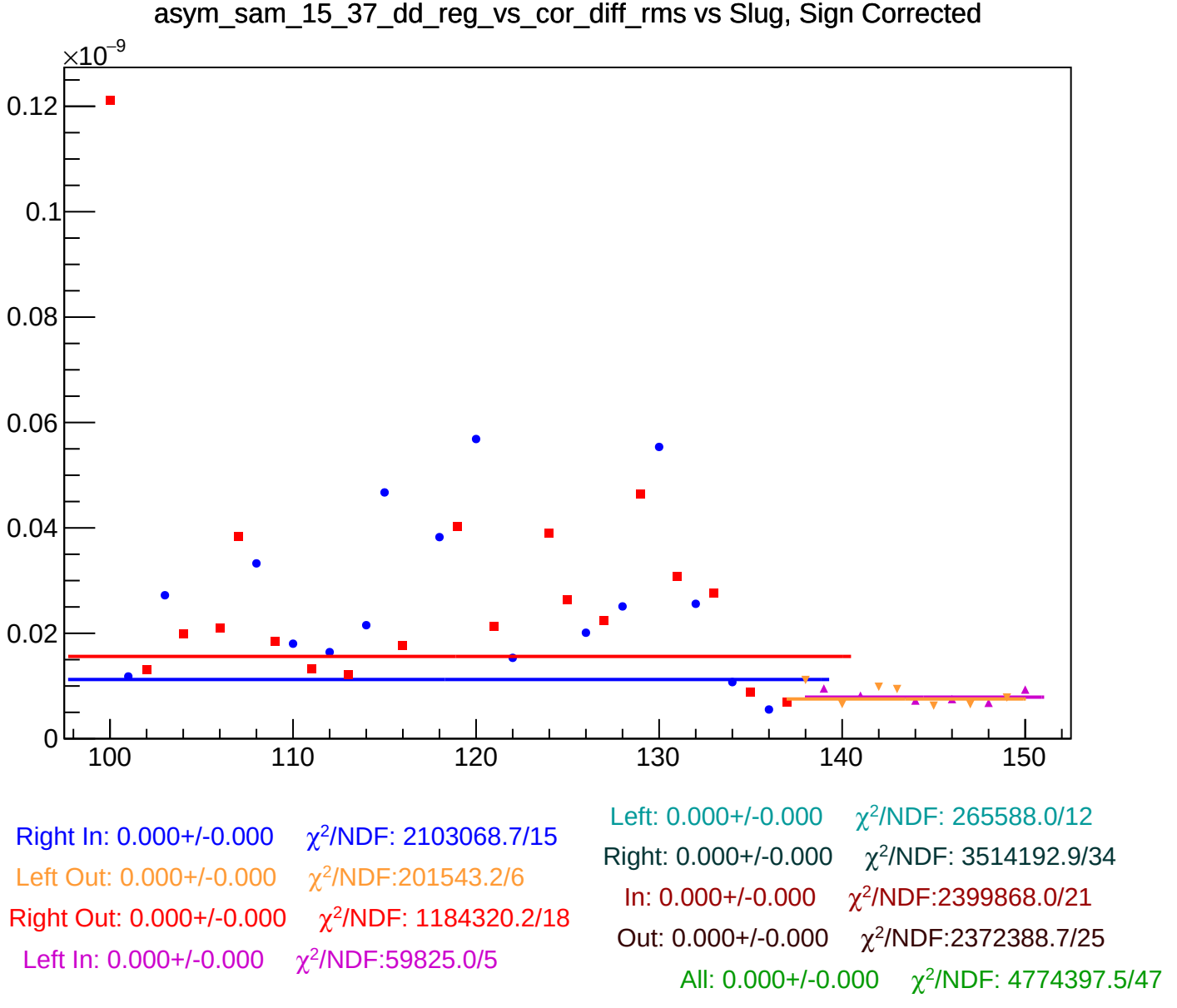
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.7/34

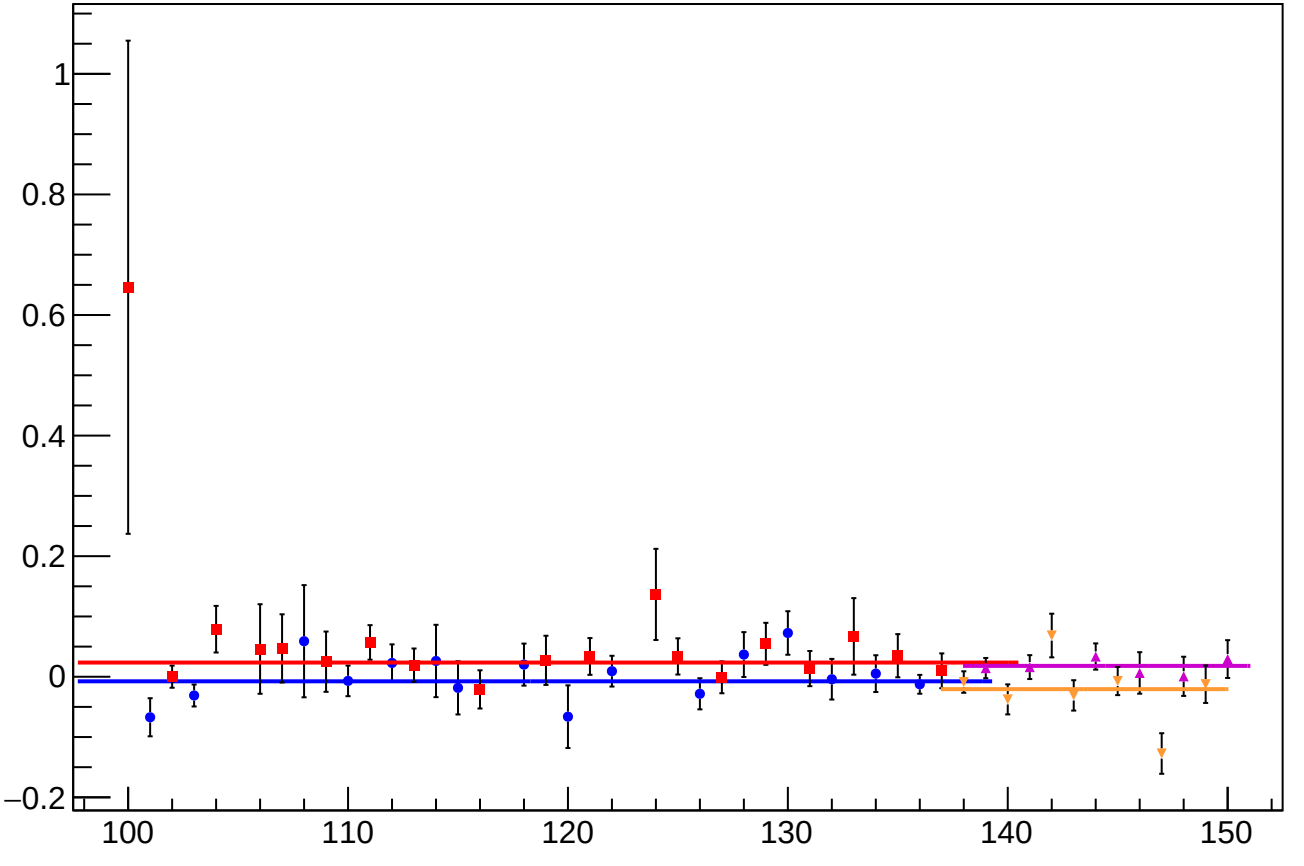
In: 0.000+/-0.000 $\chi^2$/NDF:10.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 40.4/47


asym_sam_15_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2103068.7/15
Left Out: 0.000+/-0.000 χ²/NDF:201543.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 1184320.2/18
Left In: 0.000+/-0.000 χ²/NDF:59825.0/5
Left: 0.000+/-0.000 χ²/NDF: 265588.0/12
Right: 0.000+/-0.000 χ²/NDF: 3514192.9/34
In: 0.000+/-0.000 χ²/NDF:2399868.0/21
Out: 0.000+/-0.000 χ²/NDF:2372388.7/25
All: 0.000+/-0.000 χ²/NDF: 4774397.5/47

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.021+/-0.010 $\chi^2$/NDF:17.6/6

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.018+/-0.010 $\chi^2$/NDF:1.1/5

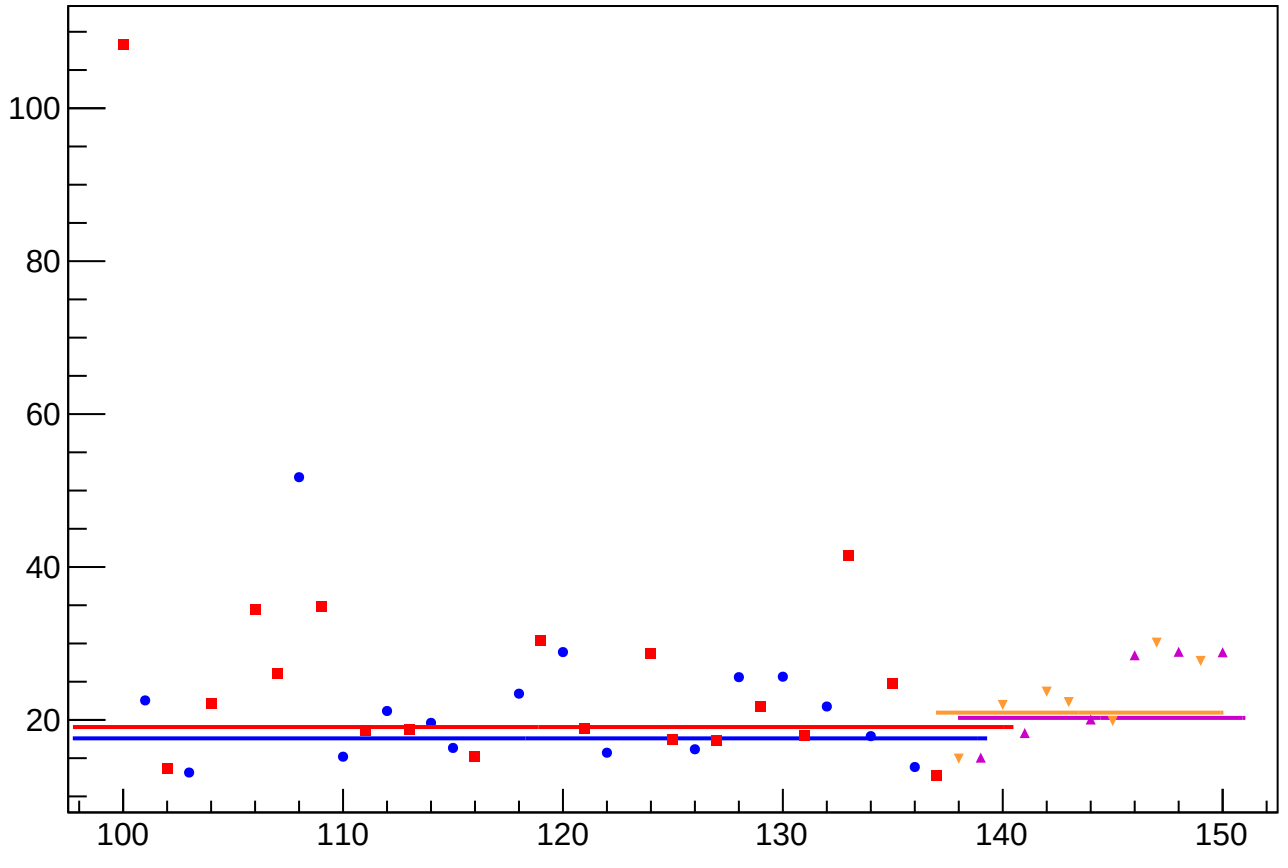
Left: -0.001+/-0.007 $\chi^2$/NDF: 26.8/12

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.002+/-0.006 $\chi^2$/NDF:22.4/21

Out: 0.006+/-0.006 $\chi^2$/NDF:45.0/25

All: 0.004+/-0.004 $\chi^2$/NDF: 67.7/47




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 20.956+/-0.007 $\chi^2$/NDF:495820.2/6

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 20.266+/-0.007 $\chi^2$/NDF:616569.3/5

Left: 20.608+/-0.005 $\chi^2$/NDF: 1117599.8/12

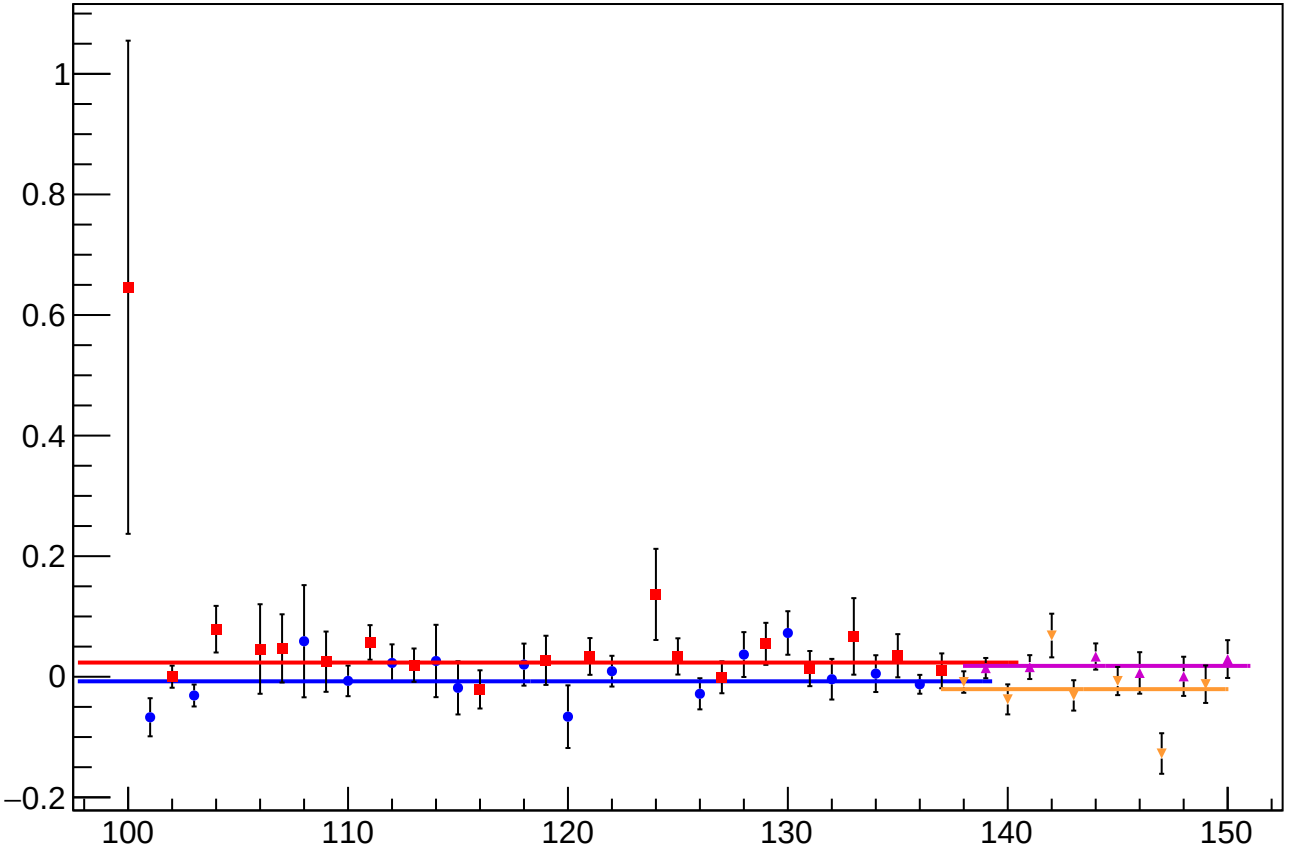
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 18.563+/-0.004 $\chi^2$/NDF:1710095.6/21

Out: 19.815+/-0.004 $\chi^2$/NDF:1790475.5/25

All: 19.159+/-0.003 $\chi^2$/NDF: 3545736.4/47

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.021+/-0.010 $\chi^2$/NDF:17.6/6

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.018+/-0.010 $\chi^2$/NDF:1.1/5

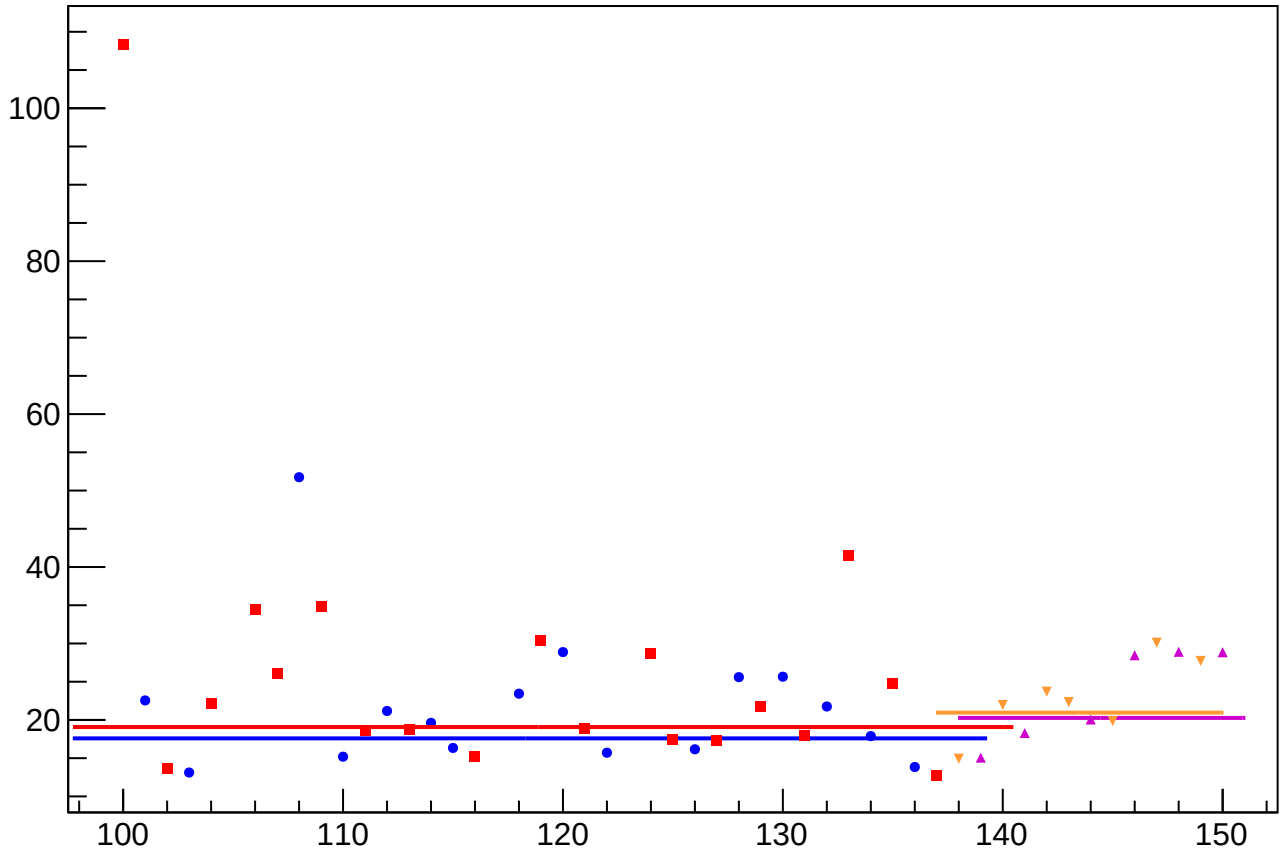
Left: -0.001+/-0.007 $\chi^2$/NDF: 26.8/12

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.002+/-0.006 $\chi^2$/NDF:22.4/21

Out: 0.006+/-0.006 $\chi^2$/NDF:45.0/25

All: 0.004+/-0.004 $\chi^2$/NDF: 67.7/47




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 20.956+/-0.007 $\chi^2$/NDF:495820.2/6

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 20.266+/-0.007 $\chi^2$/NDF:616569.3/5

Left: 20.608+/-0.005 $\chi^2$/NDF: 1117599.8/12

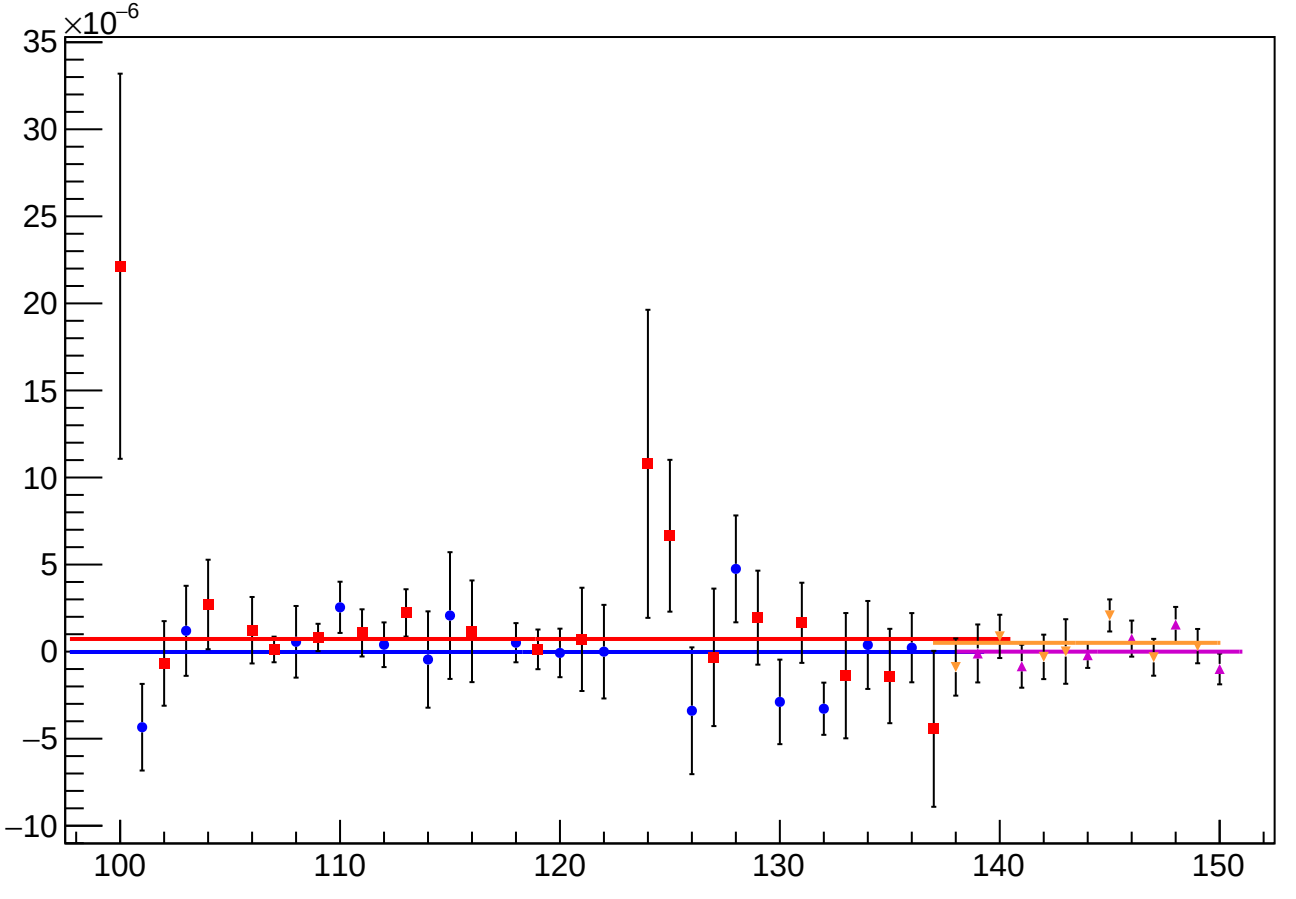
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 18.563+/-0.004 $\chi^2$/NDF:1710095.6/21

Out: 19.815+/-0.004 $\chi^2$/NDF:1790475.5/25

All: 19.159+/-0.003 $\chi^2$/NDF: 3545736.4/47

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.7/5

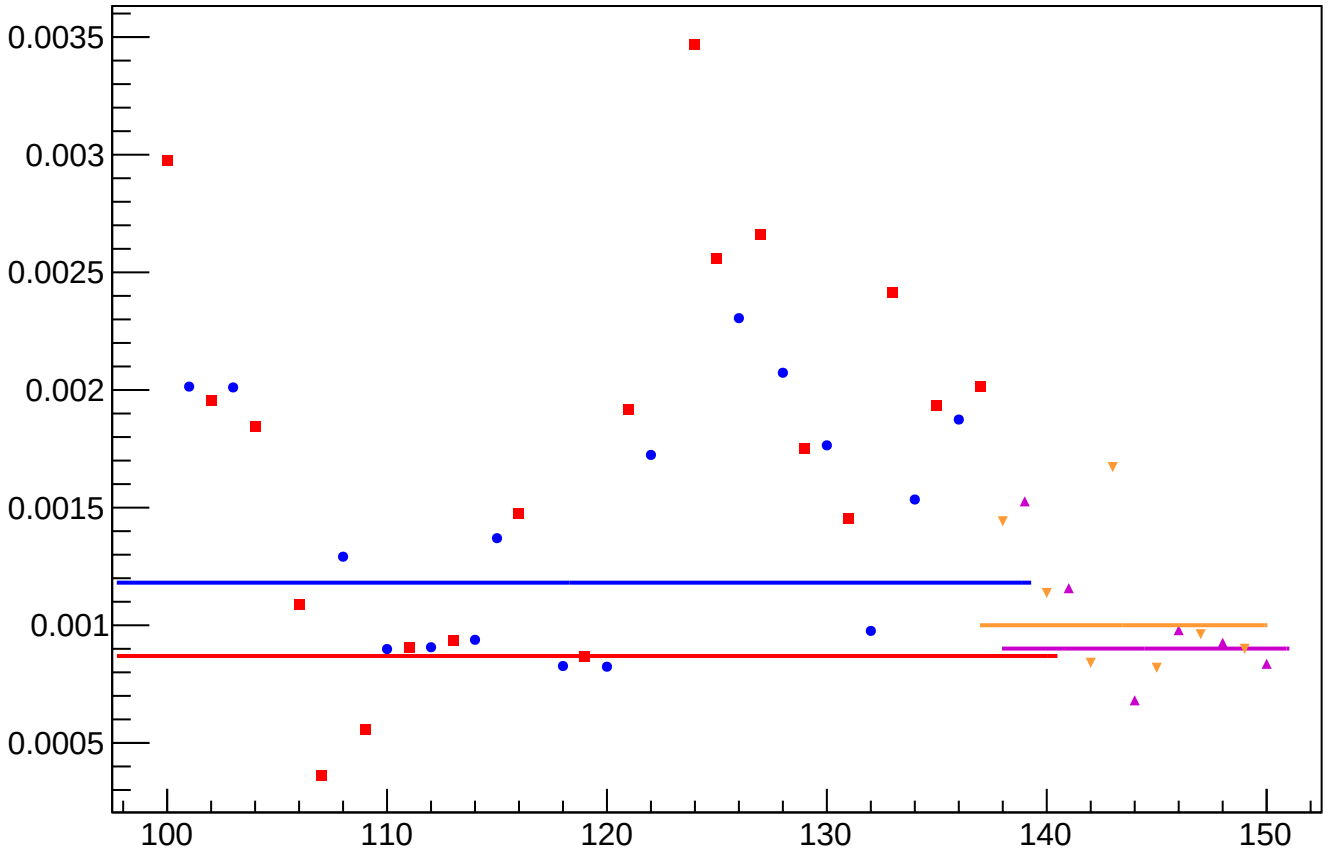
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:17.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 41.4/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1828304.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:563606.4/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4435351.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:571971.7/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 1189660.5/12

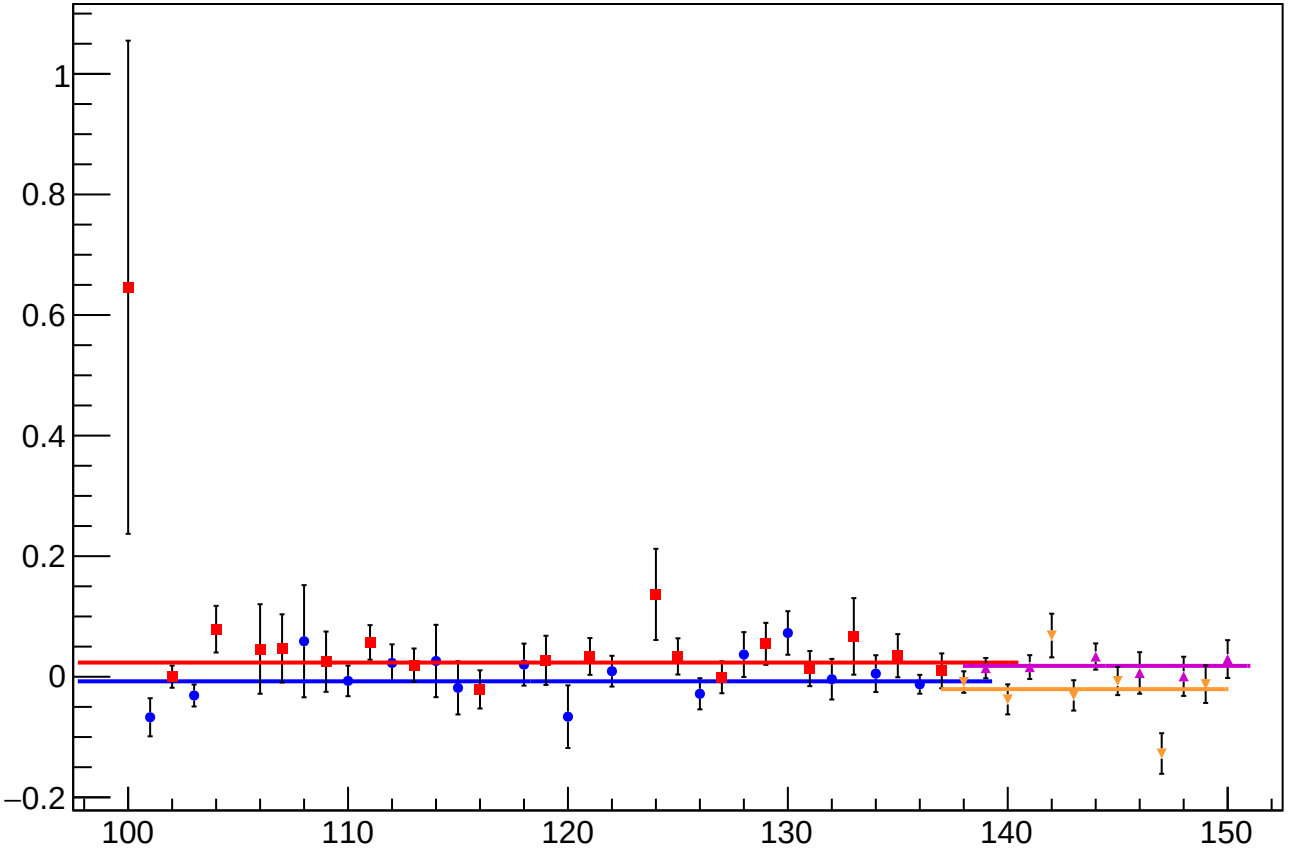
Right: 0.001+/-0.000 $\chi^2$/NDF: 6790405.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:2804193.5/21

Out: 0.001+/-0.000 $\chi^2$/NDF:5098323.7/25

All: 0.001+/-0.000 $\chi^2$/NDF: 8004055.9/47

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.021+/-0.010 $\chi^2$/NDF:17.6/6

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.018+/-0.010 $\chi^2$/NDF:1.1/5

Left: -0.001+/-0.007 $\chi^2$/NDF: 26.8/12

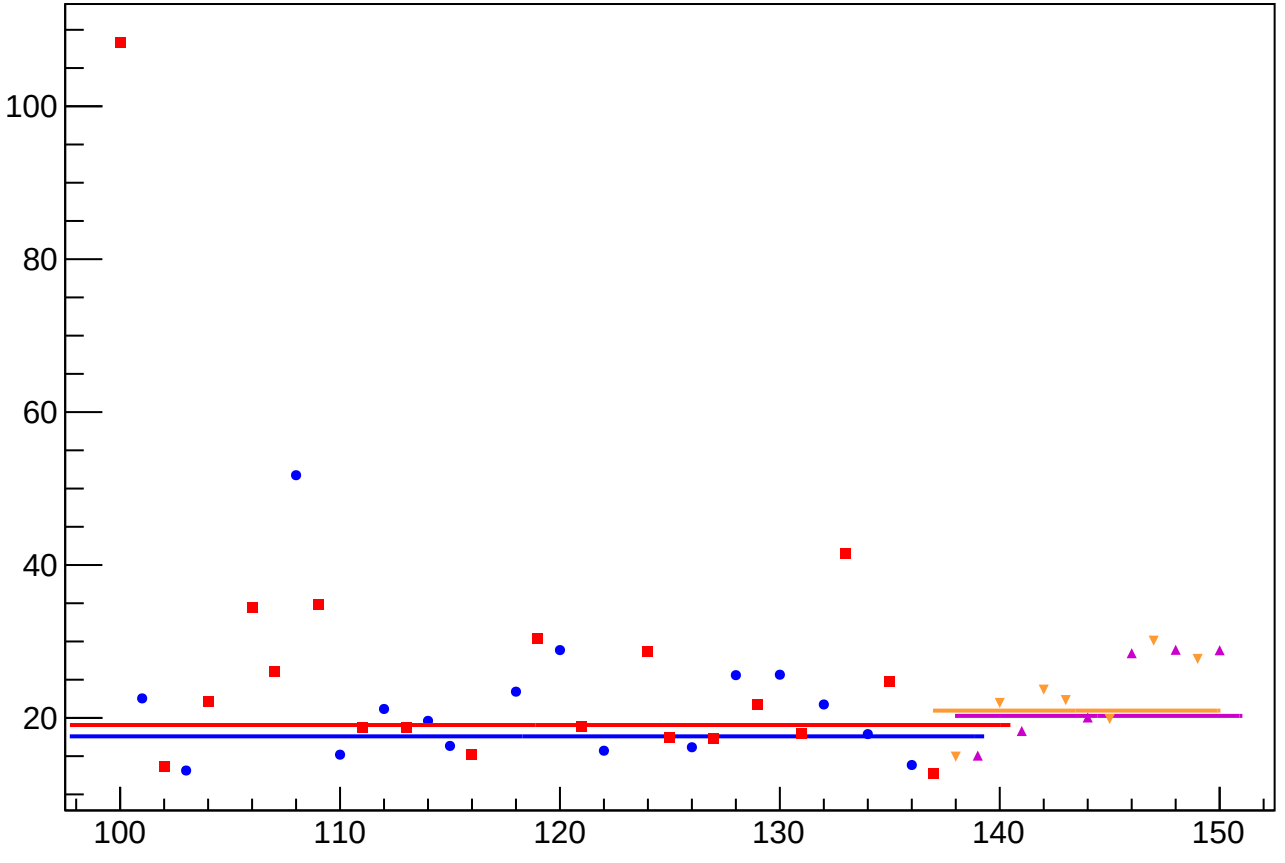
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.002+/-0.006 $\chi^2$/NDF:22.4/21

Out: 0.006+/-0.006 $\chi^2$/NDF:45.0/25

All: 0.004+/-0.004 $\chi^2$/NDF: 67.7/47

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993288.6/15

Left Out: 20.956+/-0.007 $\chi^2$/NDF:495805.8/6

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 20.266+/-0.007 $\chi^2$/NDF:616529.3/5

Left: 20.609+/-0.005 $\chi^2$/NDF: 1117543.6/12

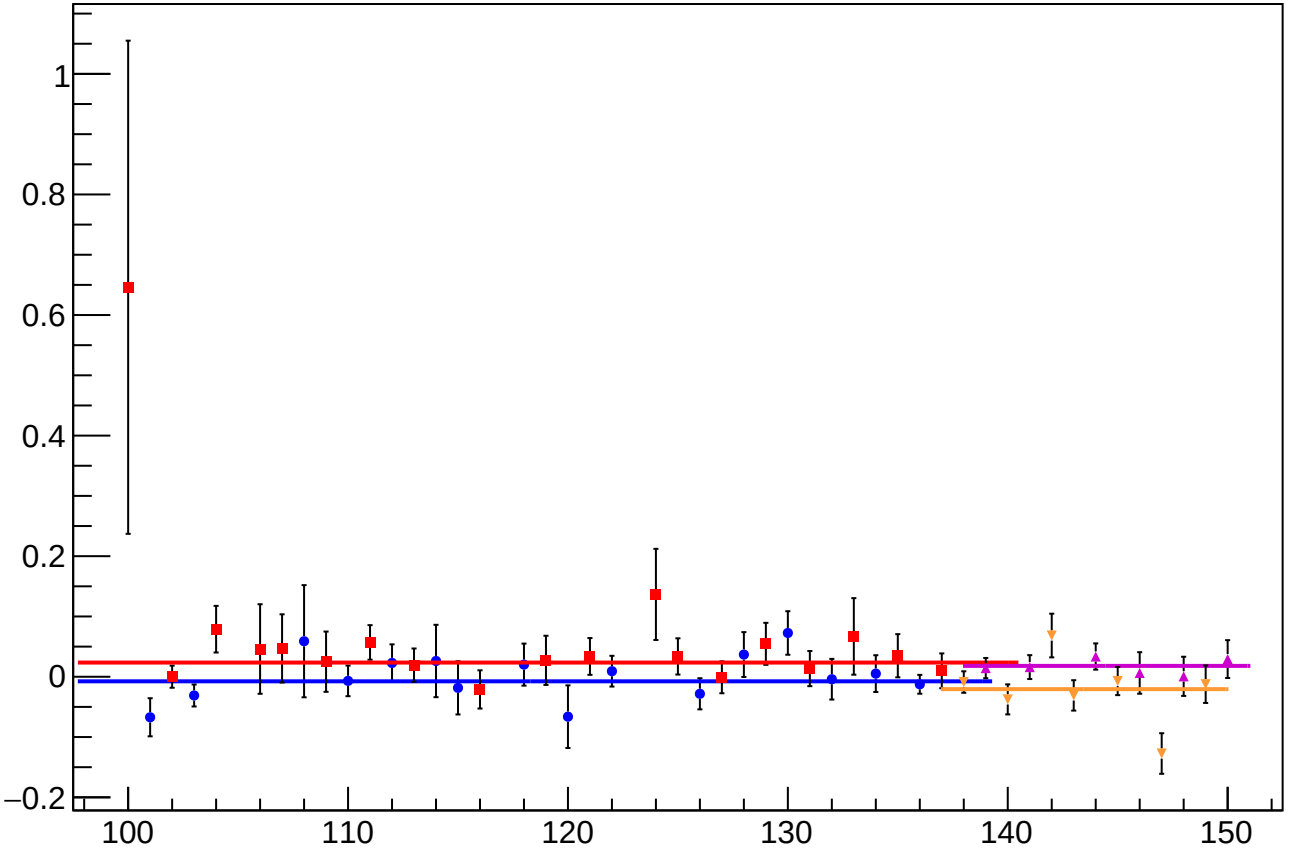
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 18.563+/-0.004 $\chi^2$/NDF:1710106.8/21

Out: 19.815+/-0.004 $\chi^2$/NDF:1790370.7/25

All: 19.159+/-0.003 $\chi^2$/NDF: 3545653.3/47

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.021+/-0.010 $\chi^2$/NDF:17.6/6

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.018+/-0.010 $\chi^2$/NDF:1.1/5

Left: -0.001+/-0.007 $\chi^2$/NDF: 26.8/12

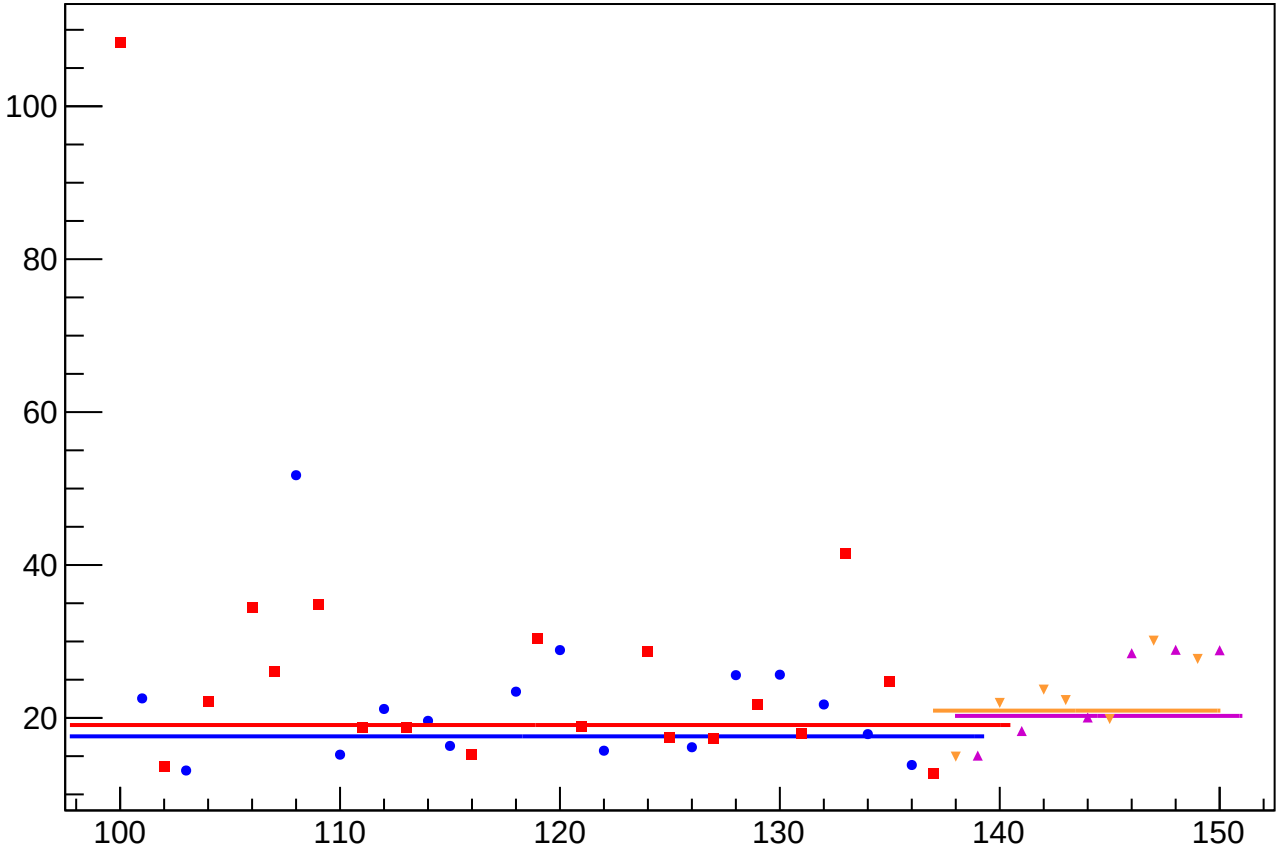
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.002+/-0.006 $\chi^2$/NDF:22.4/21

Out: 0.006+/-0.006 $\chi^2$/NDF:45.0/25

All: 0.004+/-0.004 $\chi^2$/NDF: 67.7/47

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993288.6/15

Left Out: 20.956+/-0.007 $\chi^2$/NDF:495805.8/6

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 20.266+/-0.007 $\chi^2$/NDF:616529.3/5

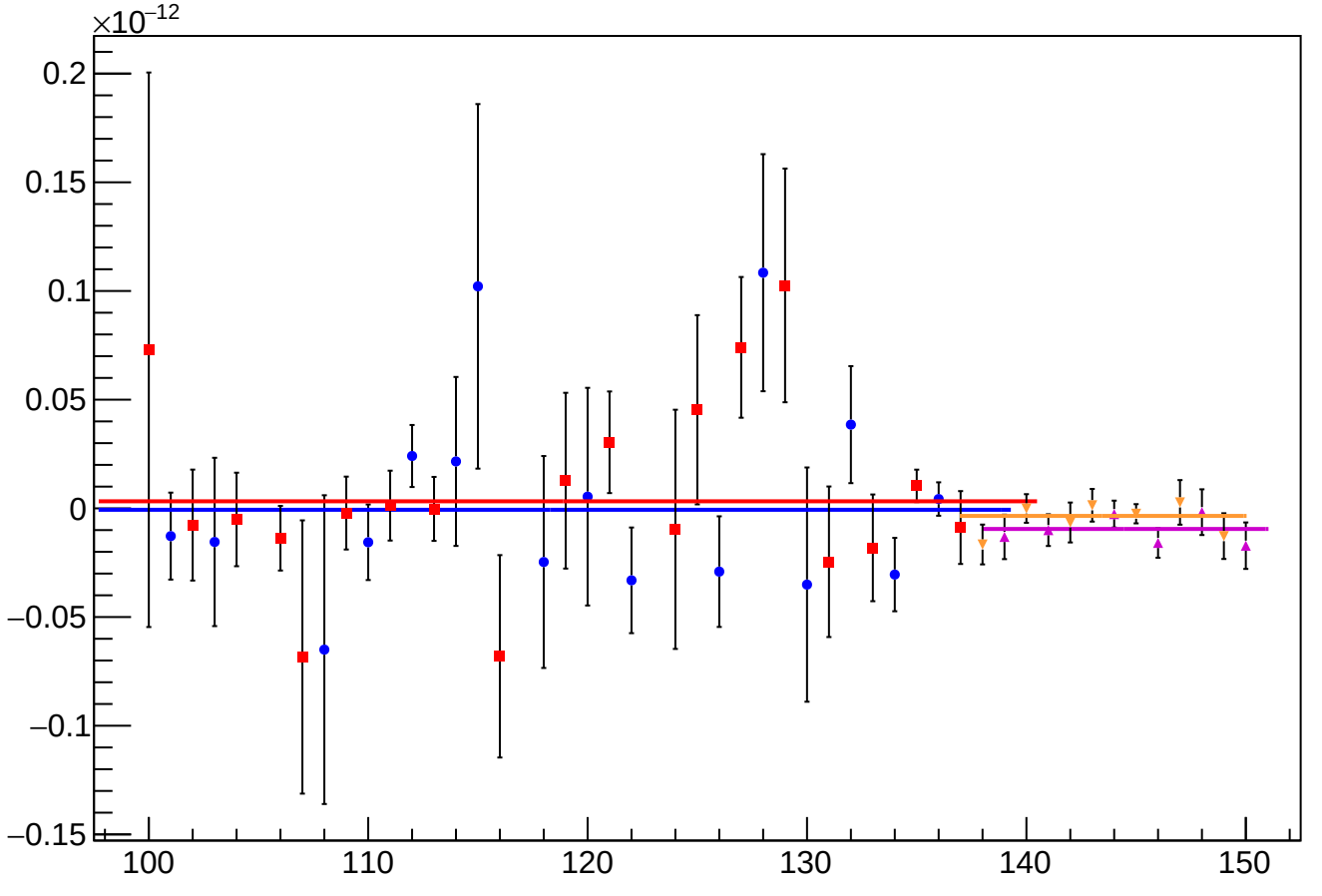
Left: 20.609+/-0.005 $\chi^2$/NDF: 1117543.6/12

Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 18.563+/-0.004 $\chi^2$/NDF:1710106.8/21

Out: 19.815+/-0.004 $\chi^2$/NDF:1790370.7/25

All: 19.159+/-0.003 $\chi^2$/NDF: 3545653.3/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.3/5

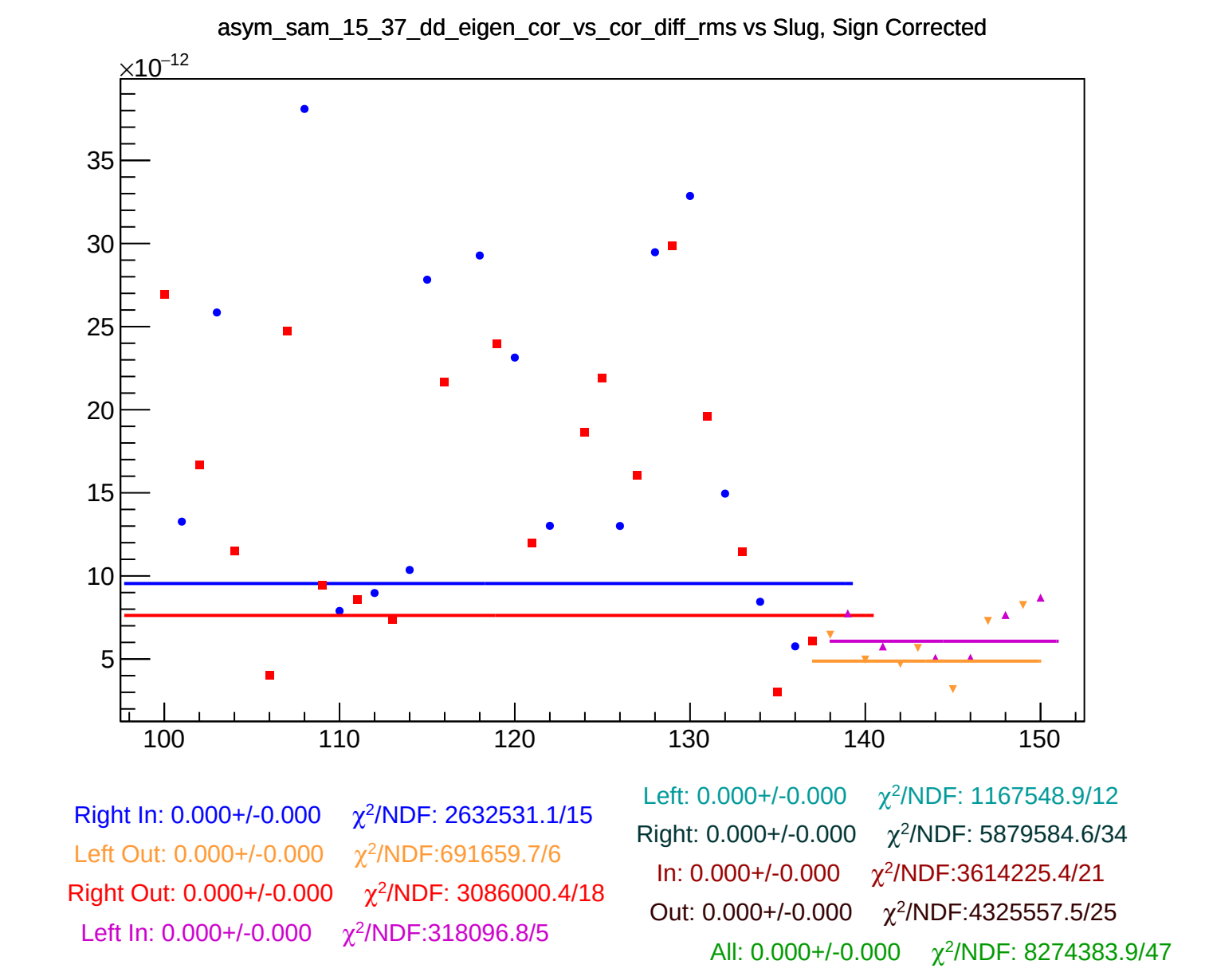
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.3/12

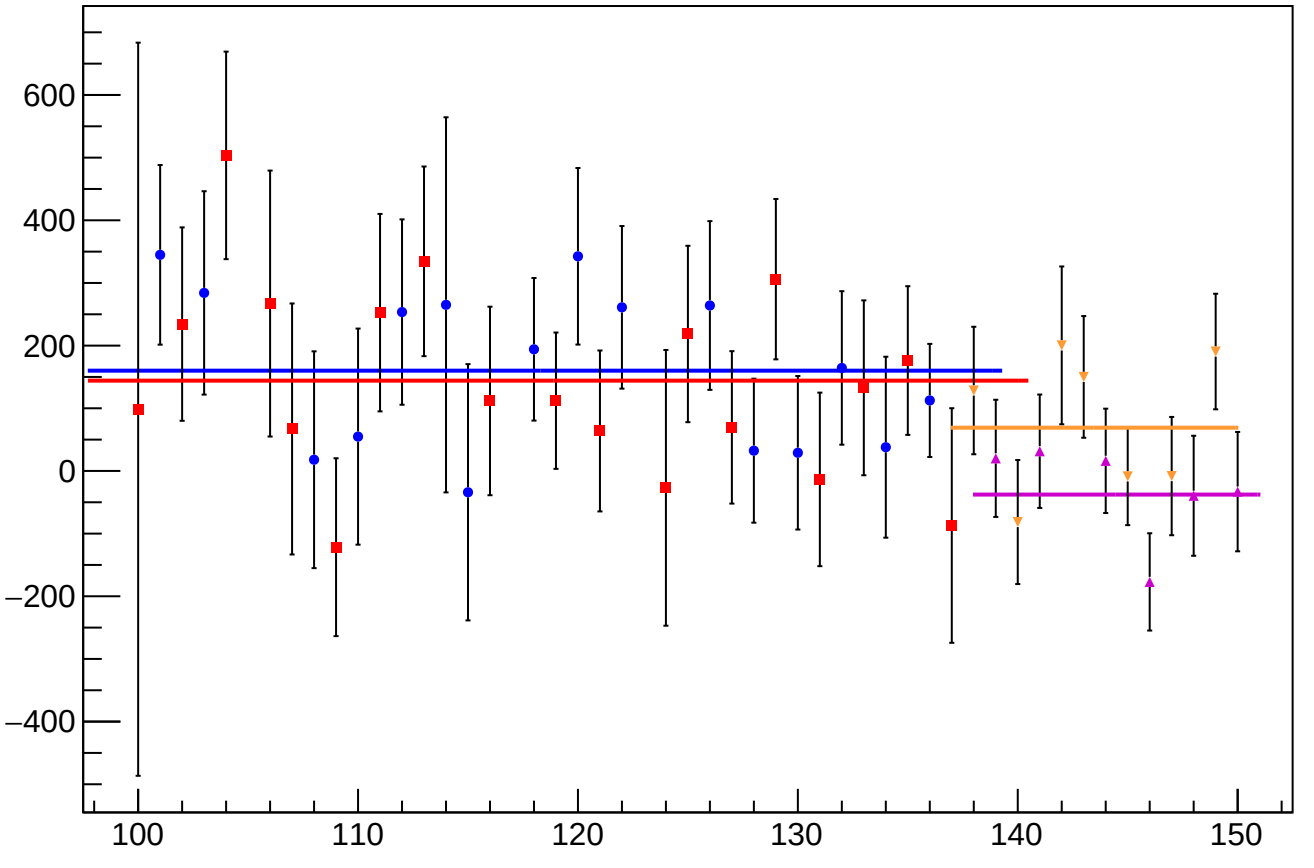
Right: 0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 52.7/47


asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2632531.1/15
Left Out: 0.000+/-0.000 χ²/NDF:691659.7/6
Right Out: 0.000+/-0.000 χ²/NDF: 3086000.4/18
Left In: 0.000+/-0.000 χ²/NDF:318096.8/5
Left: 0.000+/-0.000 χ²/NDF: 1167548.9/12
Right: 0.000+/-0.000 χ²/NDF: 5879584.6/34
In: 0.000+/-0.000 χ²/NDF:3614225.4/21
Out: 0.000+/-0.000 χ²/NDF:4325557.5/25
All: 0.000+/-0.000 χ²/NDF: 8274383.9/47




Right In: 160.024+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 69.019+/-36.202 $\chi^2$/NDF:7.8/6

Right Out: 144.117+/-34.213 $\chi^2$/NDF: 17.4/18

Left In: -37.705+/-36.134 $\chi^2$/NDF:4.6/5

Left: 15.557+/-25.574 $\chi^2$/NDF: 16.8/12

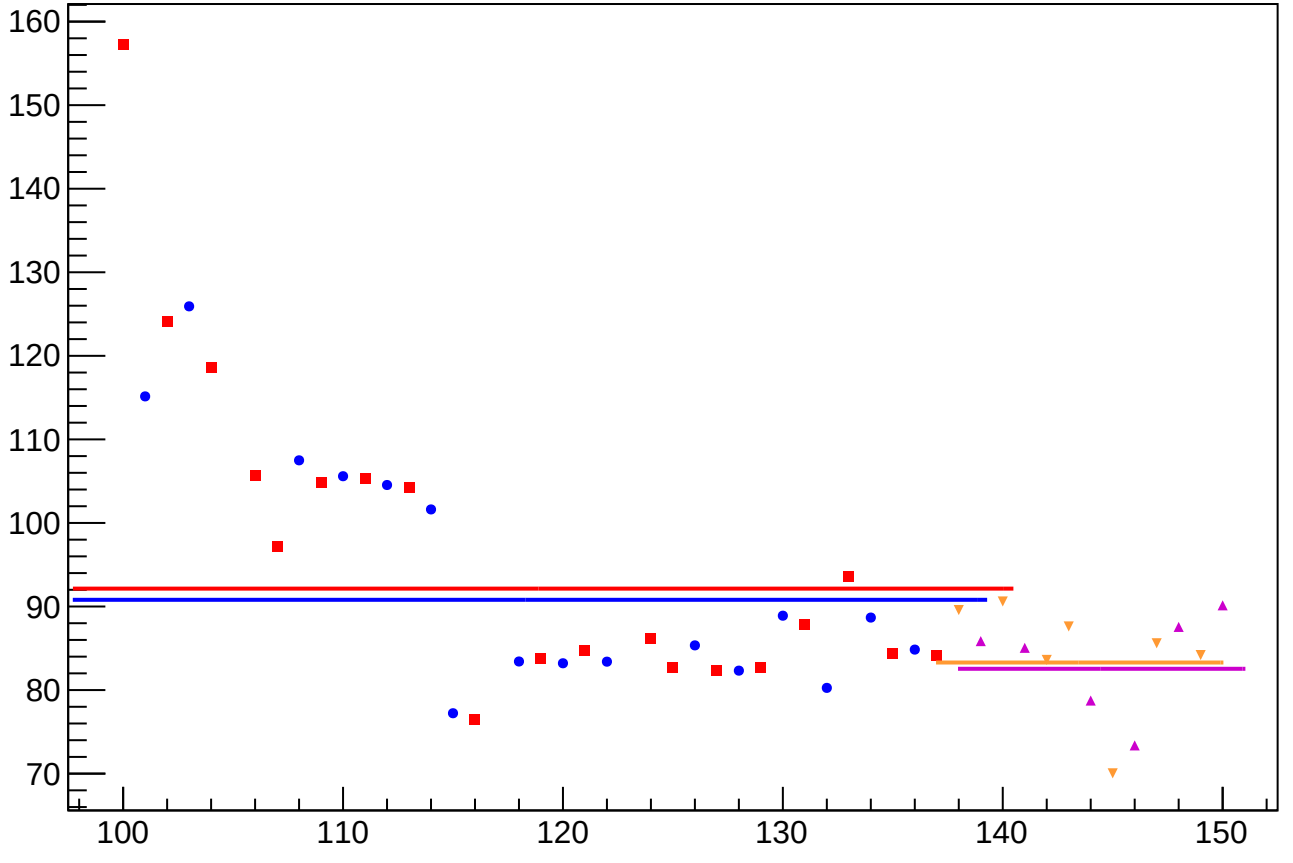
Right: 152.081+/-24.177 $\chi^2$/NDF: 28.6/34

In: 66.679+/-24.827 $\chi^2$/NDF:31.5/21

Out: 108.687+/-24.866 $\chi^2$/NDF:27.5/25

All: 87.650+/-17.569 $\chi^2$/NDF: 60.4/47

# reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272755.2/15

Left Out: 83.298+/-0.026 $\chi^2$/NDF:82027.9/6

Right Out: 92.141+/-0.024 $\chi^2$/NDF: 302032.4/18

Left In: 82.546+/-0.026 $\chi^2$/NDF:54309.9/5

Left: 82.921+/-0.018 $\chi^2$/NDF: 136769.4/12

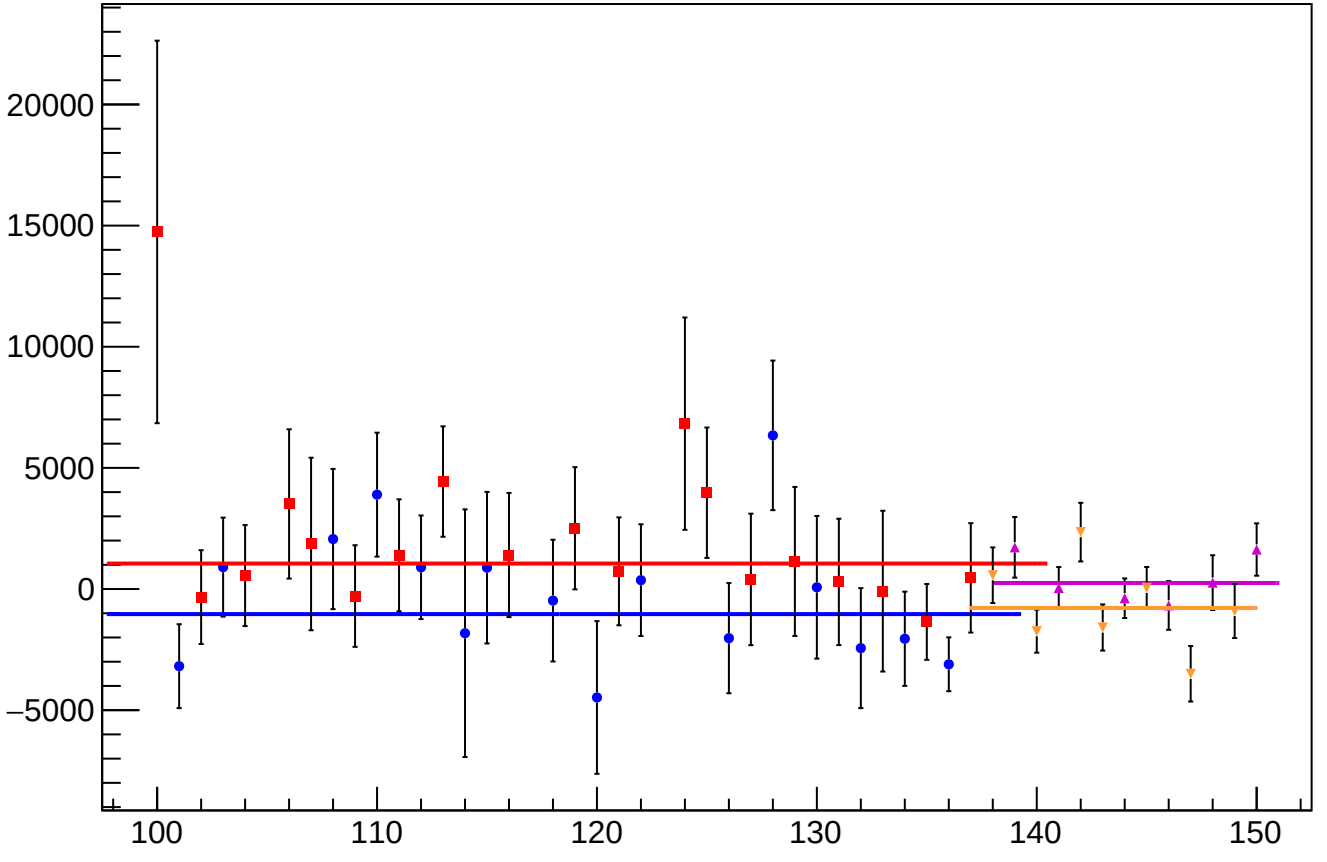
Right: 91.471+/-0.017 $\chi^2$/NDF: 576322.1/34

In: 86.905+/-0.018 $\chi^2$/NDF:382179.0/21

Out: 87.969+/-0.018 $\chi^2$/NDF:447102.1/25

All: 87.436+/-0.012 $\chi^2$/NDF: 831116.6/47

asym_sam_24_68_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -1035.032+/-550.207 $\chi^2$/NDF: 20.2/15

Left Out: -780.572+/-385.183 $\chi^2$/NDF:16.5/6

Right Out: 1051.517+/-568.935 $\chi^2$/NDF: 12.9/18

Left In: 249.905+/-404.505 $\chi^2$/NDF:4.5/5

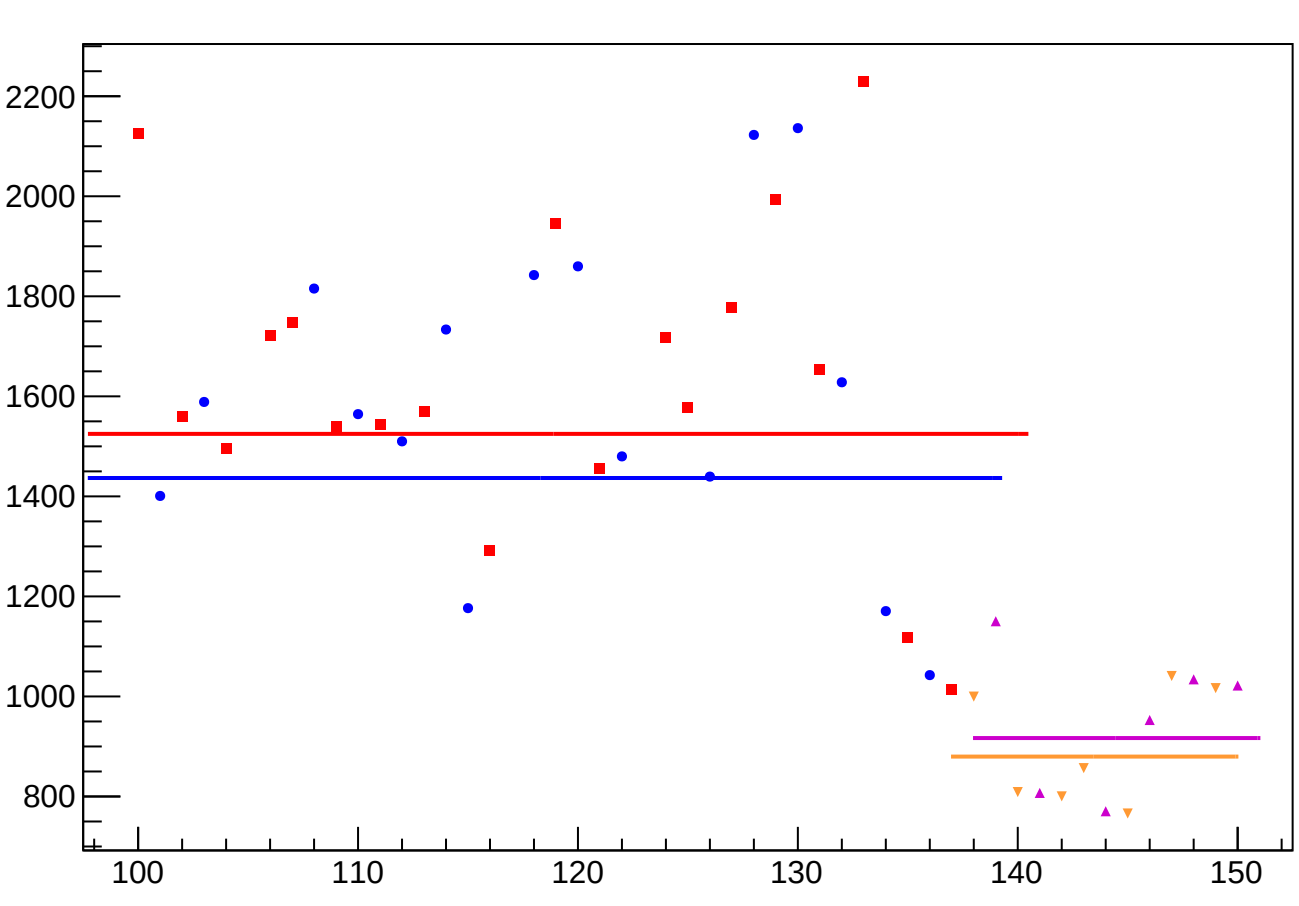
Left: -290.531+/-278.946 $\chi^2$/NDF: 24.5/12

Right: -26.665+/-395.510 $\chi^2$/NDF: 40.1/34

In: -200.928+/-325.906 $\chi^2$/NDF:28.3/21

Out: -204.747+/-318.959 $\chi^2$/NDF:36.5/25

All: -202.879+/-227.955 $\chi^2$/NDF: 64.8/47




Right In: 1436.734+/-0.389 $\chi^2$/NDF: 675672.3/15

Left Out: 879.772+/-0.272 $\chi^2$/NDF:149345.2/6

Right Out: 1524.955+/-0.402 $\chi^2$/NDF: 504563.9/18

Left In: 916.822+/-0.286 $\chi^2$/NDF:209344.7/5

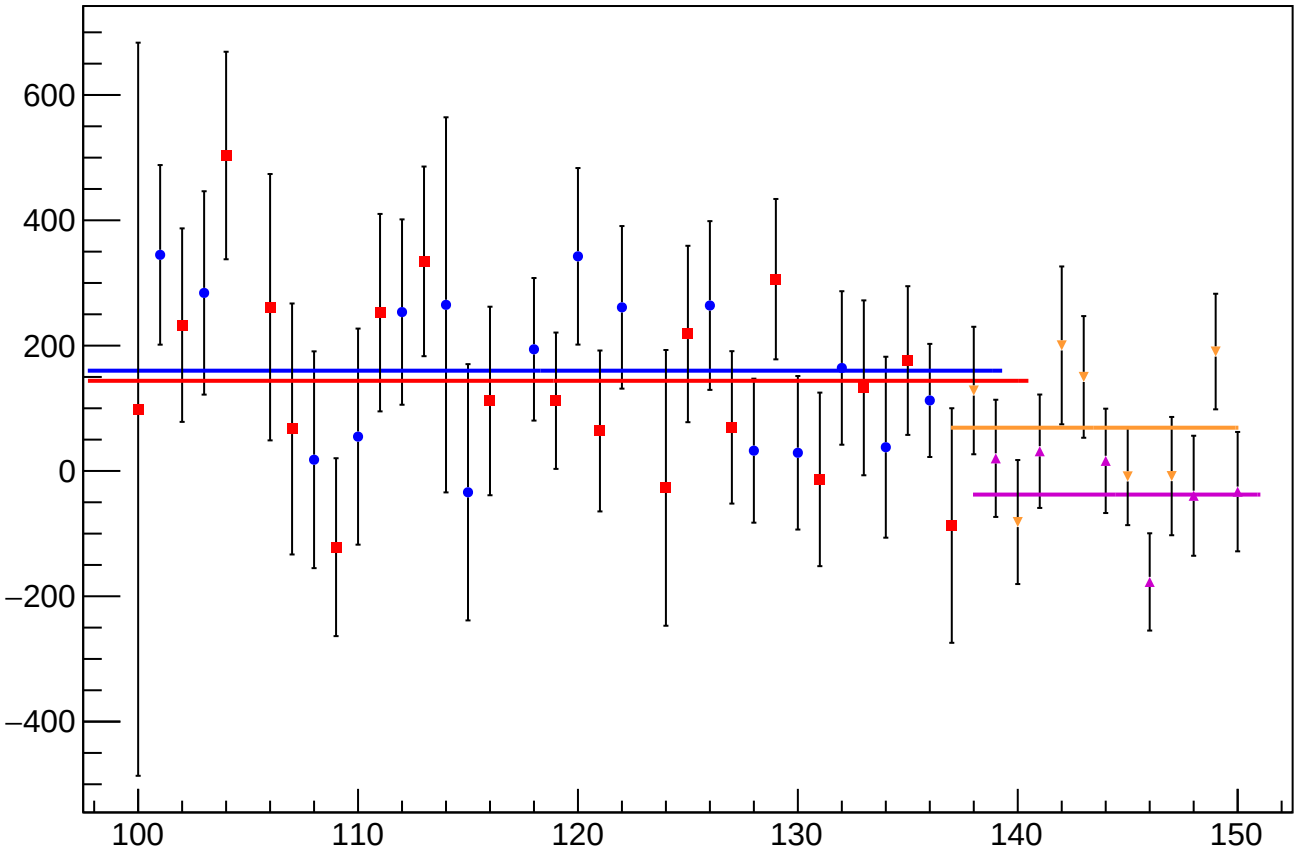
Left: 897.391+/-0.197 $\chi^2$/NDF: 367489.5/12

Right: 1479.369+/-0.280 $\chi^2$/NDF: 1205085.6/34

In: 1099.238+/-0.230 $\chi^2$/NDF:2044264.2/21

Out: 1082.553+/-0.226 $\chi^2$/NDF:2417530.3/25

All: 1090.716+/-0.161 $\chi^2$/NDF: 4464472.0/47




Right In: 160.020+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 69.021+/-36.202 $\chi^2$/NDF:7.8/6

Right Out: 143.862+/-34.216 $\chi^2$/NDF: 17.3/18

Left In: -37.703+/-36.134 $\chi^2$/NDF:4.6/5

Left: 15.559+/-25.574 $\chi^2$/NDF: 16.8/12

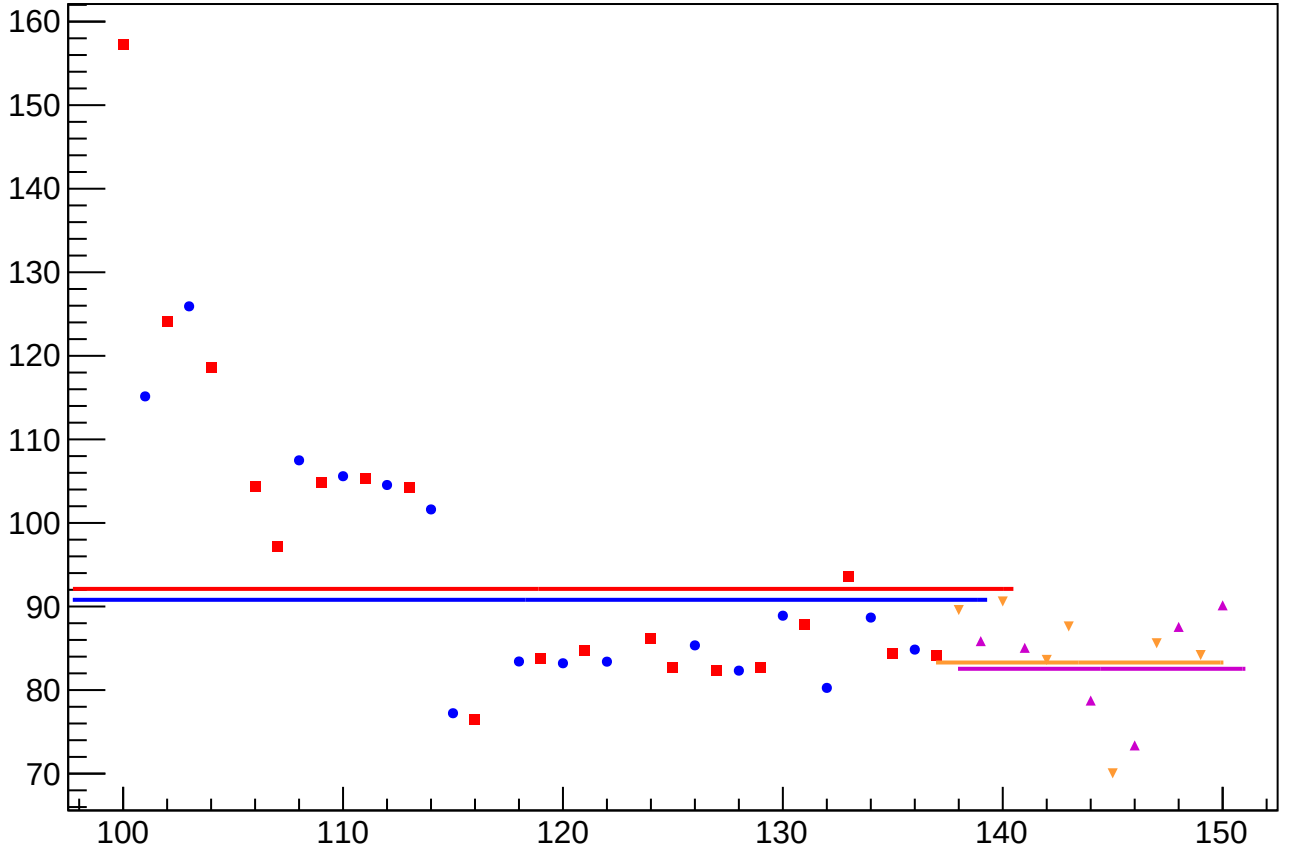
Right: 151.952+/-24.178 $\chi^2$/NDF: 28.5/34

In: 66.678+/-24.827 $\chi^2$/NDF:31.5/21

Out: 108.551+/-24.867 $\chi^2$/NDF:27.4/25

All: 87.581+/-17.569 $\chi^2$/NDF: 60.3/47

# cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 83.298+/-0.026 $\chi^2$/NDF:82027.9/6

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 82.546+/-0.026 $\chi^2$/NDF:54309.9/5

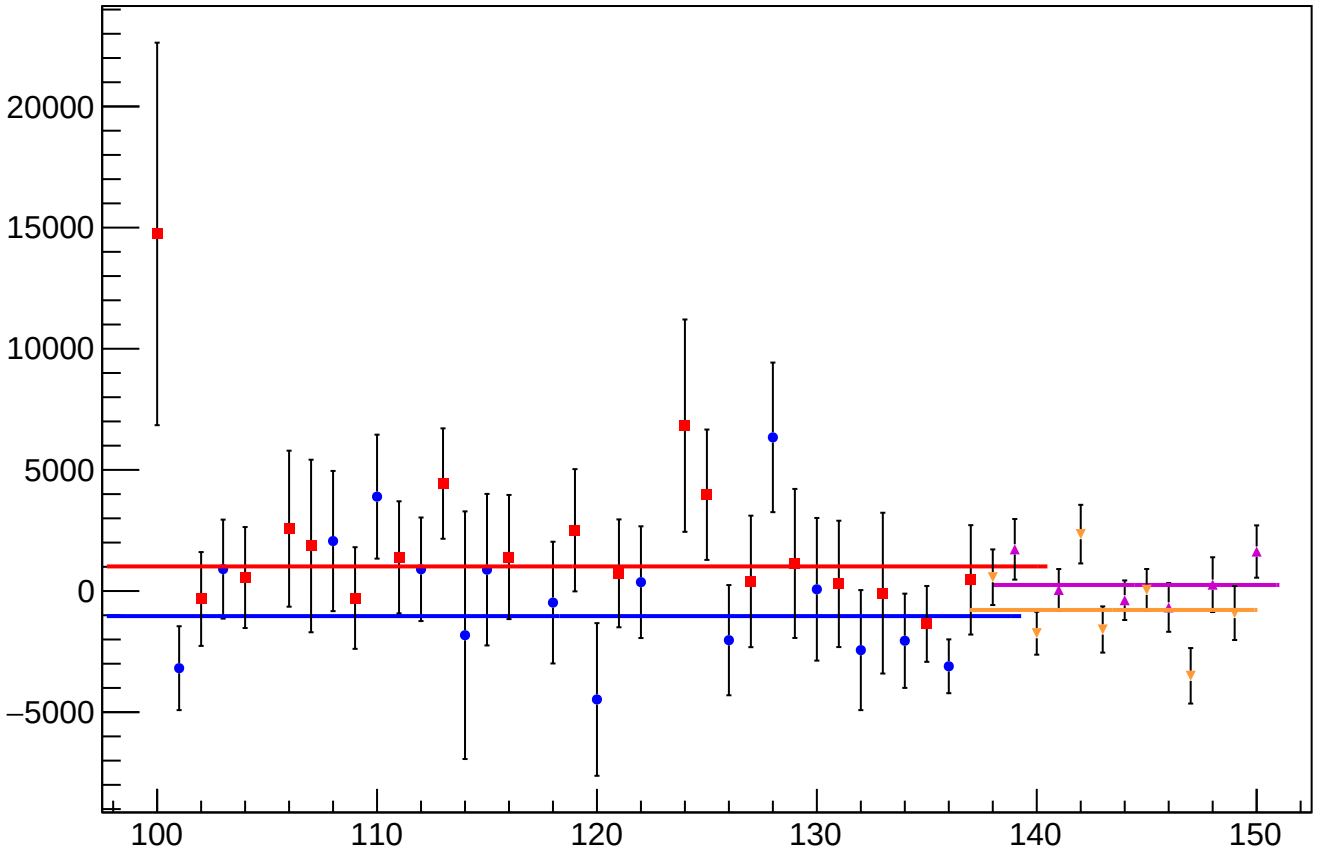
Left: 82.921+/-0.018 $\chi^2$/NDF: 136769.4/12

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 86.905+/-0.018 $\chi^2$/NDF:382180.9/21

Out: 87.951+/-0.018 $\chi^2$/NDF:445363.3/25

All: 87.427+/-0.012 $\chi^2$/NDF: 829318.9/47




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -780.567+/-385.183 $\chi^2$/NDF:16.5/6

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 249.913+/-404.505 $\chi^2$/NDF:4.5/5

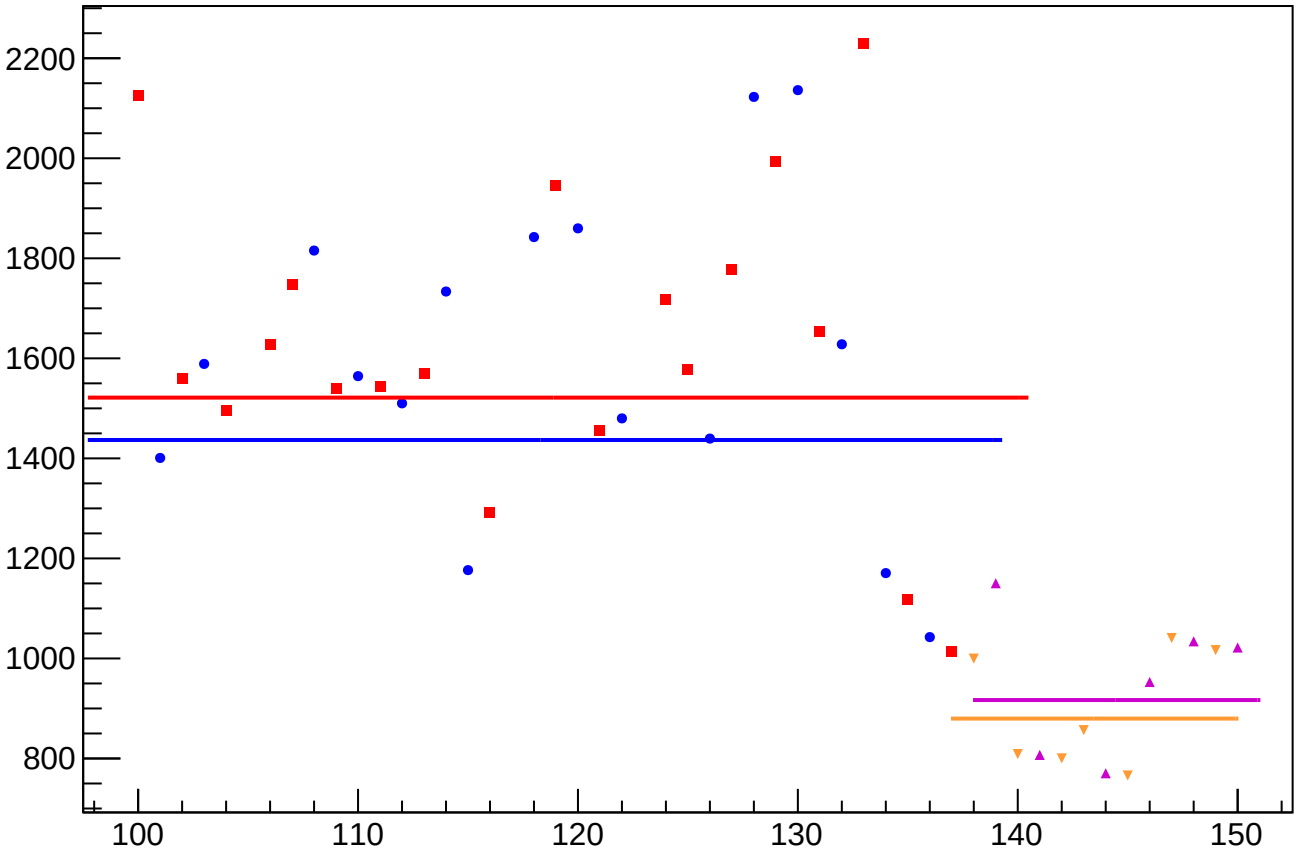
Left: -290.525+/-278.946 $\chi^2$/NDF: 24.5/12

Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -200.913+/-325.907 $\chi^2$/NDF:28.3/21

Out: -217.238+/-319.106 $\chi^2$/NDF:35.8/25

All: -209.247+/-228.008 $\chi^2$/NDF: 64.1/47




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 879.772+/-0.272 $\chi^2$/NDF:149345.6/6

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 916.822+/-0.286 $\chi^2$/NDF:209345.2/5

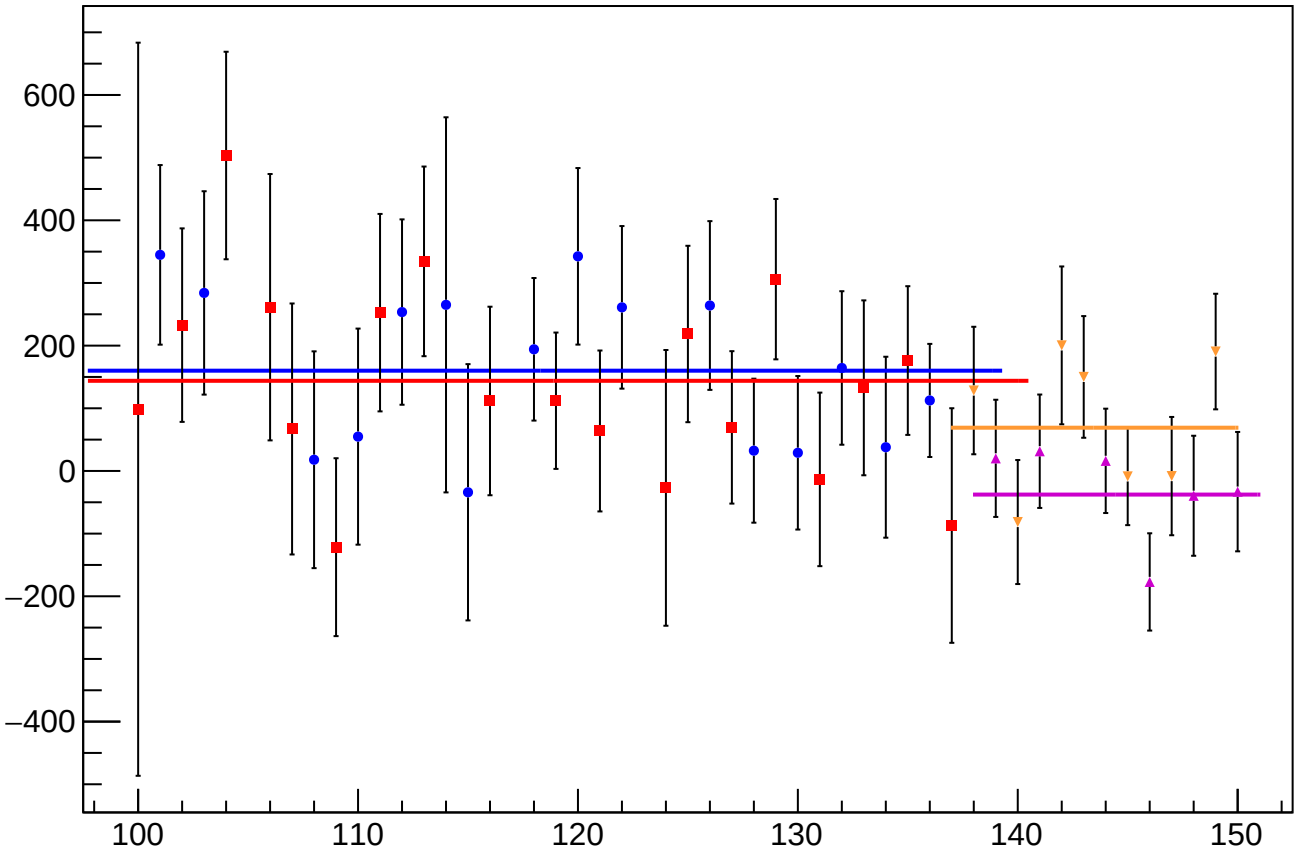
Left: 897.391+/-0.197 $\chi^2$/NDF: 367490.7/12

Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 1099.239+/-0.230 $\chi^2$/NDF:2044283.9/21

Out: 1081.059+/-0.226 $\chi^2$/NDF:2388952.4/25

All: 1089.957+/-0.161 $\chi^2$/NDF: 4436413.8/47




Right In: 160.020+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 69.021+/-36.202 $\chi^2$/NDF:7.8/6

Right Out: 143.862+/-34.216 $\chi^2$/NDF: 17.3/18

Left In: -37.703+/-36.134 $\chi^2$/NDF:4.6/5

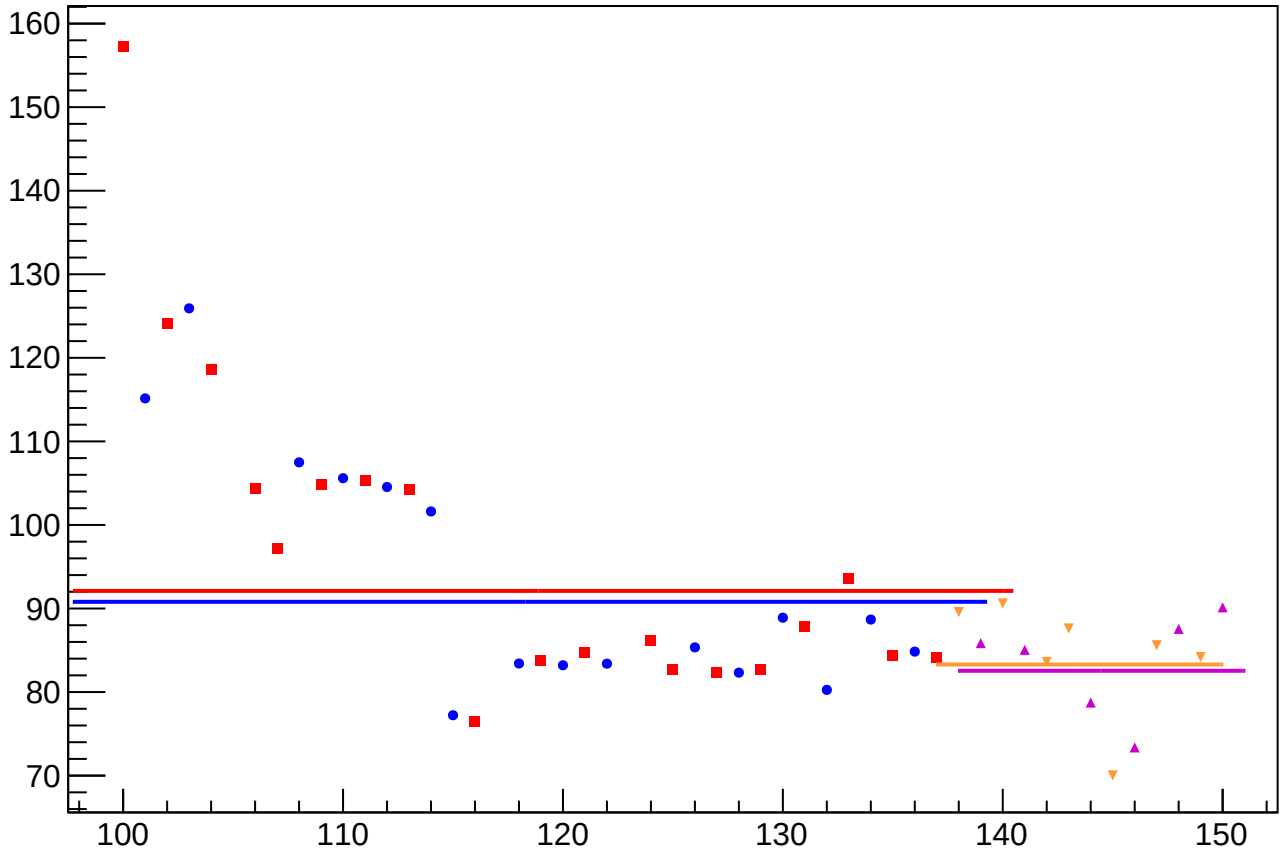
Left: 15.559+/-25.574 $\chi^2$/NDF: 16.8/12

Right: 151.952+/-24.178 $\chi^2$/NDF: 28.5/34

In: 66.678+/-24.827 $\chi^2$/NDF:31.5/21

Out: 108.551+/-24.867 $\chi^2$/NDF:27.4/25

All: 87.581+/-17.569 $\chi^2$/NDF: 60.3/47




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 83.298+/-0.026 $\chi^2$/NDF:82027.9/6

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 82.546+/-0.026 $\chi^2$/NDF:54309.9/5

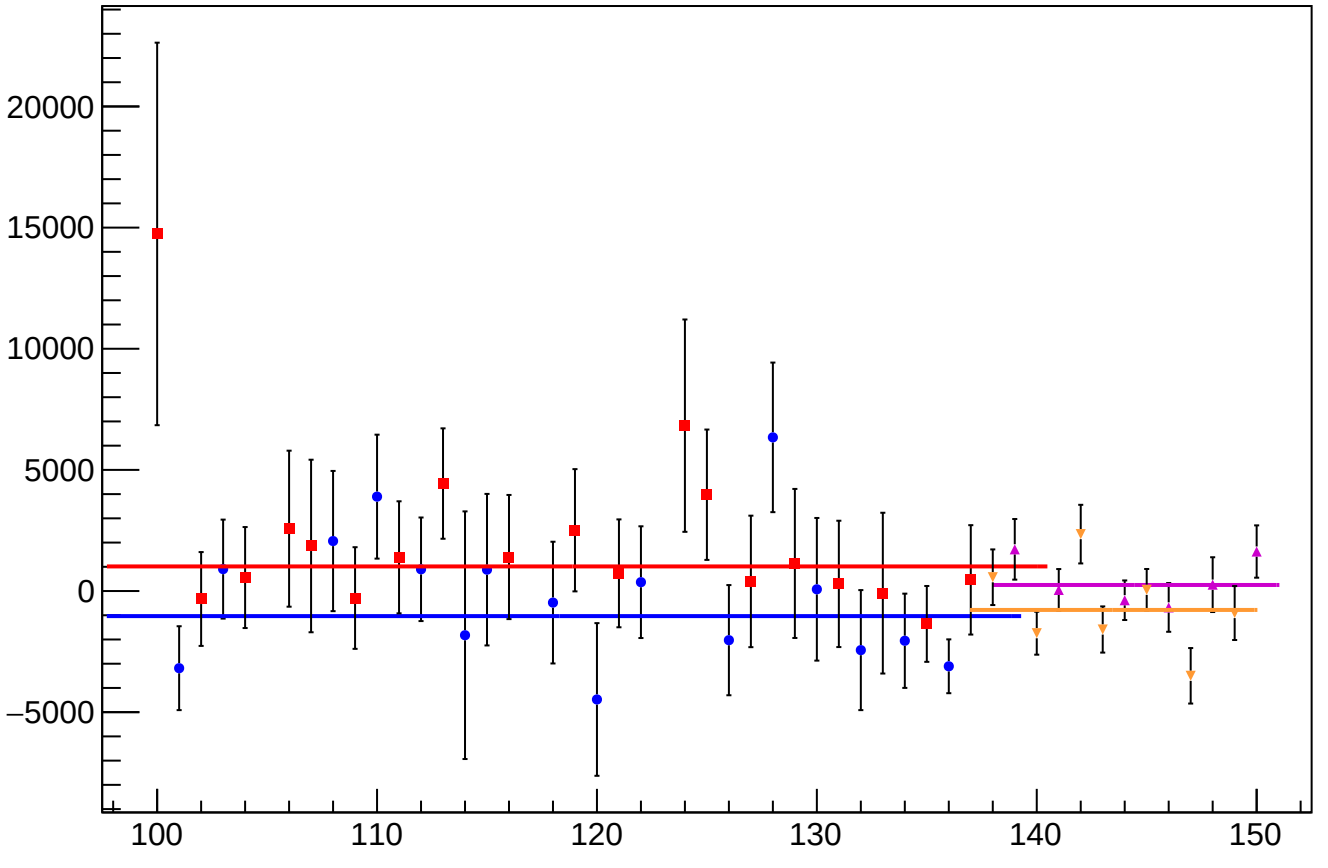
Left: 82.921+/-0.018 $\chi^2$/NDF: 136769.4/12

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 86.905+/-0.018 $\chi^2$/NDF:382180.9/21

Out: 87.951+/-0.018 $\chi^2$/NDF:445363.3/25

All: 87.427+/-0.012 $\chi^2$/NDF: 829318.9/47




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -780.567+/-385.183 $\chi^2$/NDF:16.5/6

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 249.913+/-404.505 $\chi^2$/NDF:4.5/5

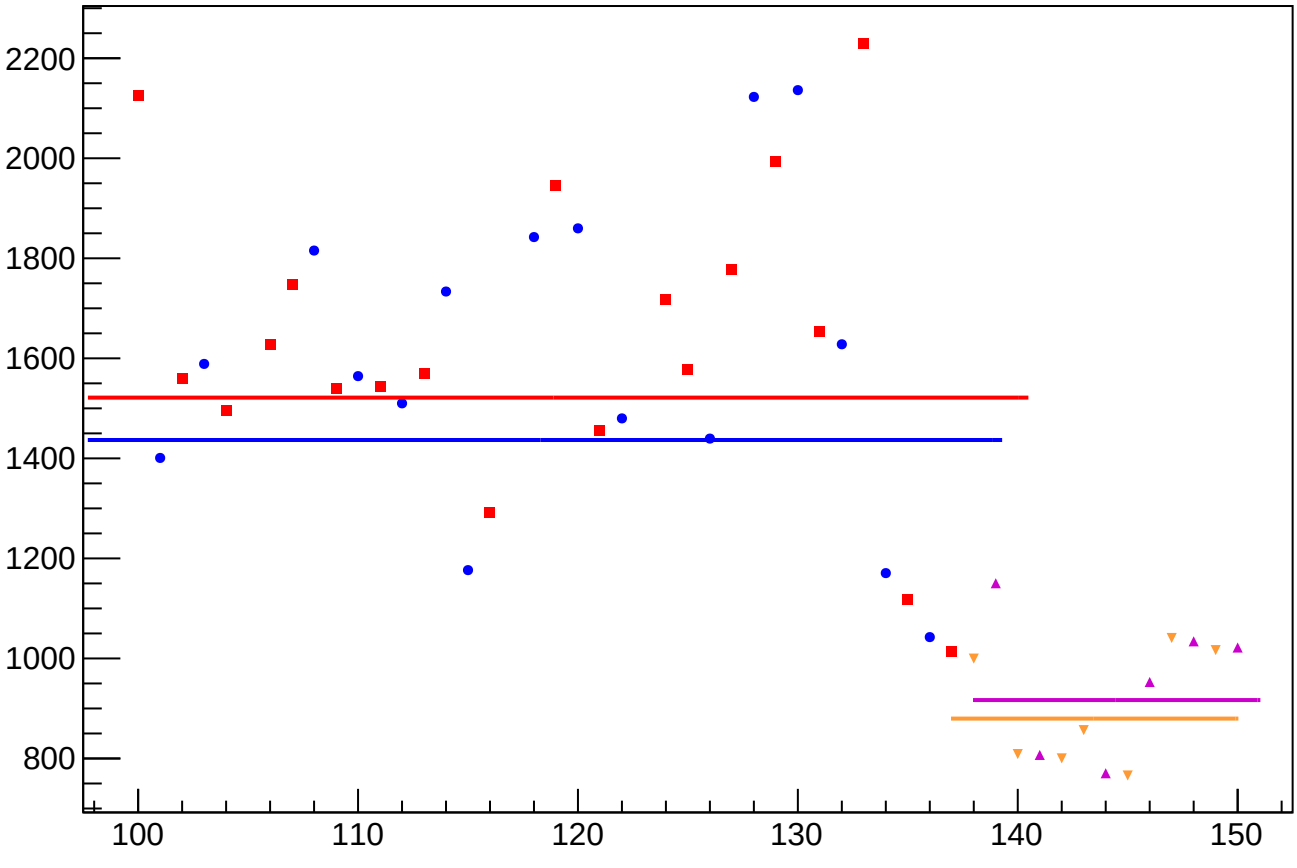
Left: -290.525+/-278.946 $\chi^2$/NDF: 24.5/12

Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -200.913+/-325.907 $\chi^2$/NDF:28.3/21

Out: -217.238+/-319.106 $\chi^2$/NDF:35.8/25

All: -209.247+/-228.008 $\chi^2$/NDF: 64.1/47




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 879.772+/-0.272 $\chi^2$/NDF:149345.6/6

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 916.822+/-0.286 $\chi^2$/NDF:209345.2/5

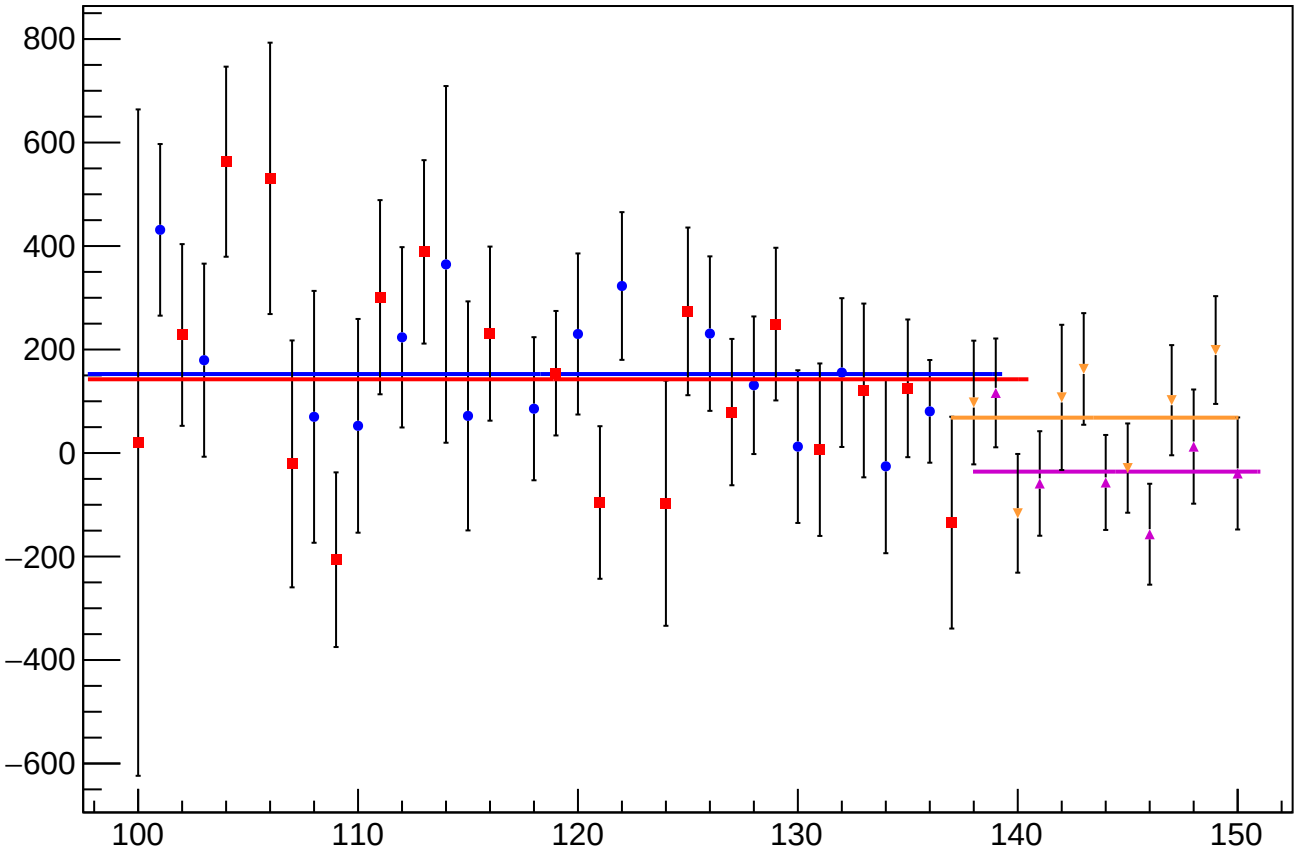
Left: 897.391+/-0.197 $\chi^2$/NDF: 367490.7/12

Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 1099.239+/-0.230 $\chi^2$/NDF:2044283.9/21

Out: 1081.059+/-0.226 $\chi^2$/NDF:2388952.4/25

All: 1089.957+/-0.161 $\chi^2$/NDF: 4436413.8/47




Right In: 152.626+/-39.446 $\chi^2$/NDF: 8.6/15

Left Out: 68.363+/-40.907 $\chi^2$/NDF:6.4/6

Right Out: 142.496+/-39.340 $\chi^2$/NDF: 22.9/18

Left In: -35.972+/-41.530 $\chi^2$/NDF:3.9/5

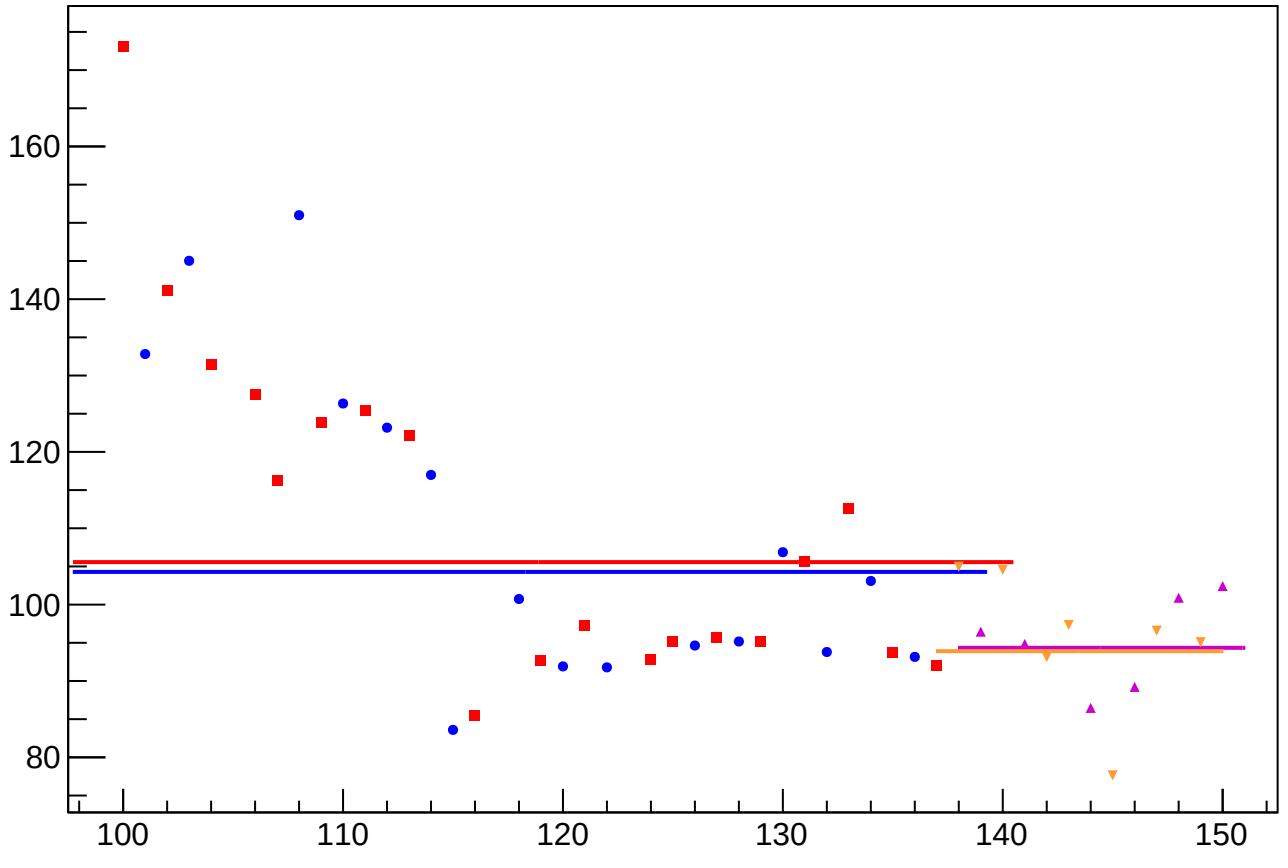
Left: 16.983+/-29.143 $\chi^2$/NDF: 13.6/12

Right: 147.548+/-27.855 $\chi^2$/NDF: 31.6/34

In: 63.176+/-28.601 $\chi^2$/NDF:23.4/21

Out: 106.877+/-28.356 $\chi^2$/NDF:31.1/25

All: 85.214+/-20.137 $\chi^2$/NDF: 55.7/47




Right In: 104.286+/-0.028 $\chi^2$/NDF: 378310.9/15

Left Out: 93.905+/-0.029 $\chi^2$/NDF:109042.6/6

Right Out: 105.568+/-0.028 $\chi^2$/NDF: 344605.9/18

Left In: 94.344+/-0.029 $\chi^2$/NDF:39299.2/5

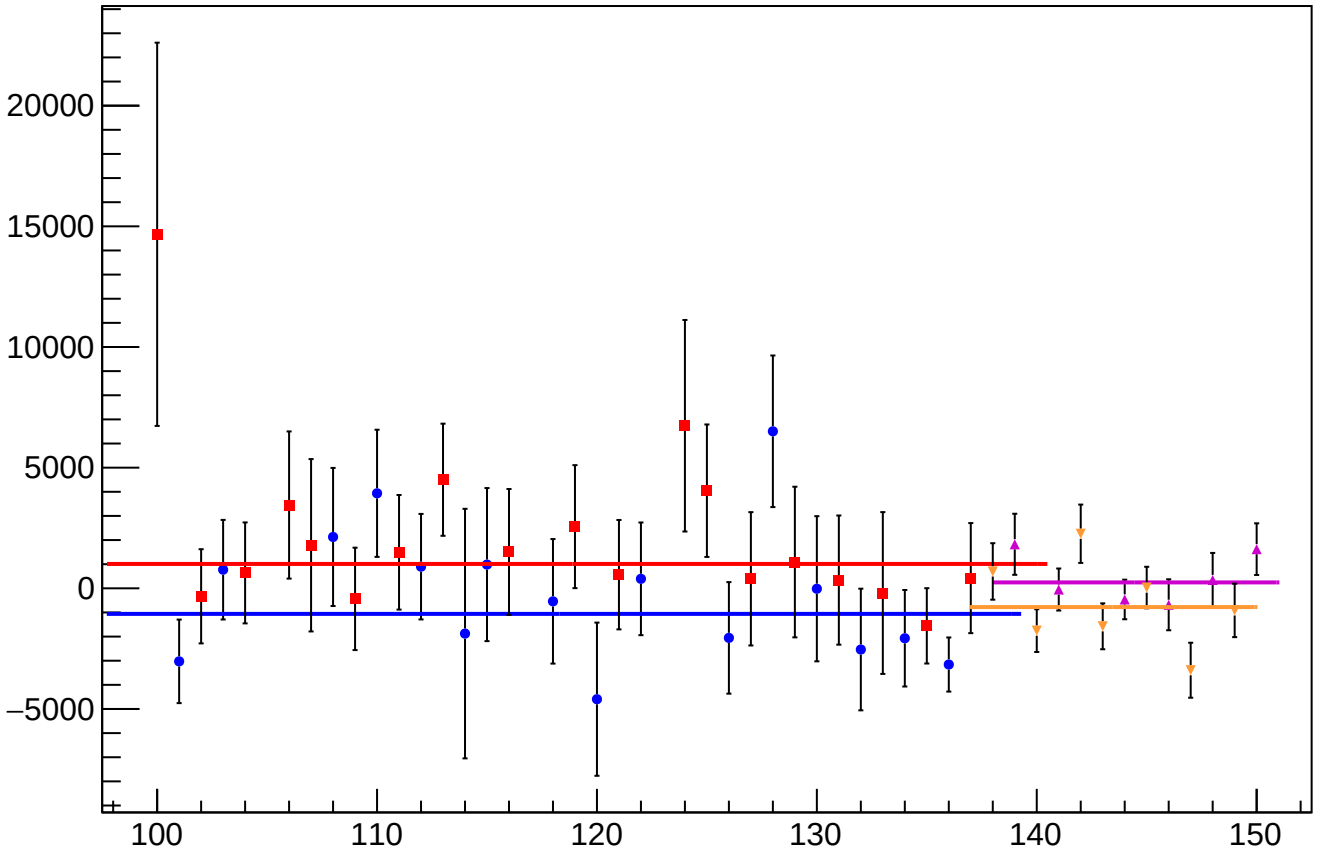
Left: 94.121+/-0.021 $\chi^2$/NDF: 148455.0/12

Right: 104.929+/-0.020 $\chi^2$/NDF: 723975.9/34

In: 99.571+/-0.020 $\chi^2$/NDF:477873.7/21

Out: 99.964+/-0.020 $\chi^2$/NDF:538111.2/25

All: 99.769+/-0.014 $\chi^2$/NDF: 1016176.1/47




Right In: -1059.357+/-557.645 $\chi^2$/NDF: 20.0/15

Left Out: -777.363+/-385.438 $\chi^2$/NDF:16.0/6

Right Out: 1009.907+/-575.100 $\chi^2$/NDF: 13.3/18

Left In: 244.782+/-408.296 $\chi^2$/NDF:4.9/5

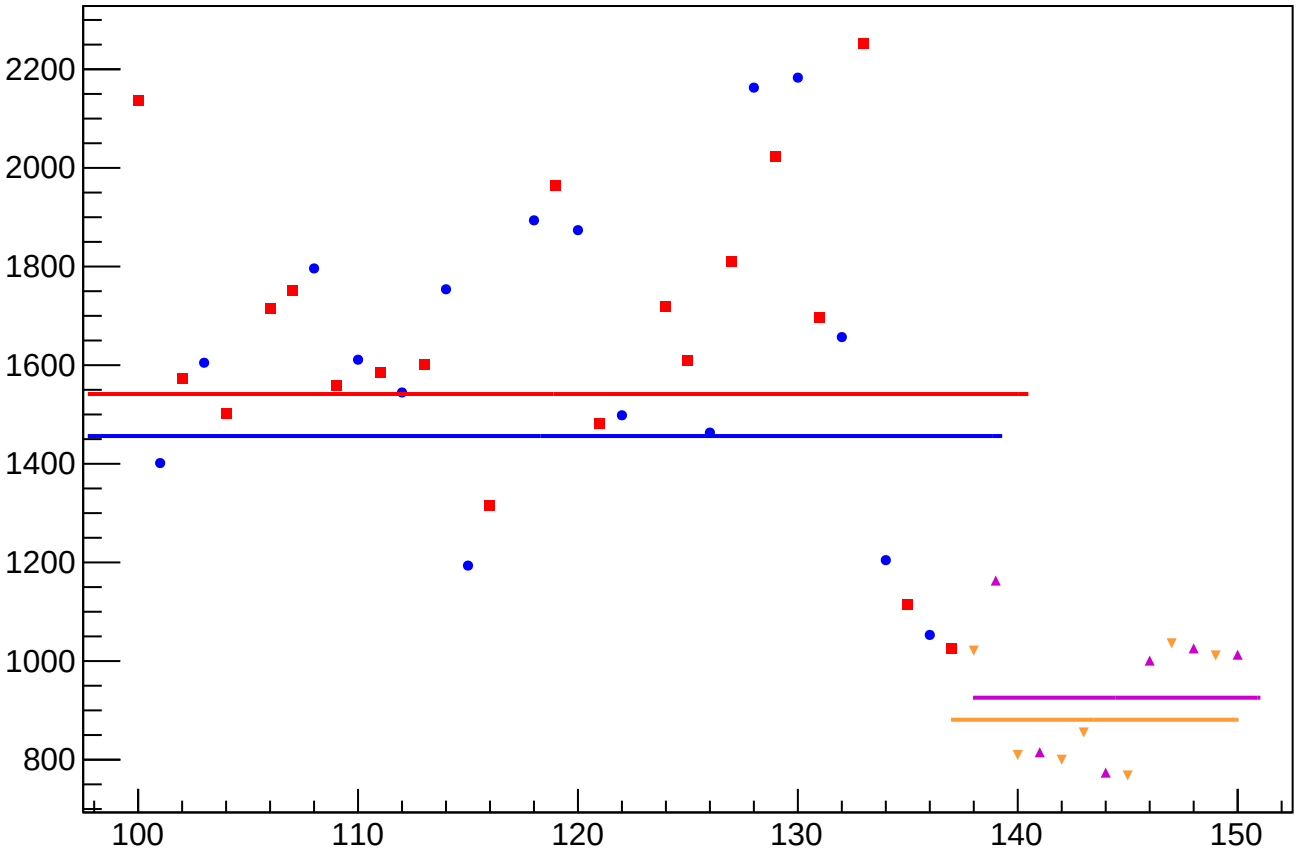
Left: -295.702+/-280.278 $\chi^2$/NDF: 24.2/12

Right: -56.604+/-400.343 $\chi^2$/NDF: 40.0/34

In: -210.356+/-329.433 $\chi^2$/NDF:28.5/21

Out: -223.389+/-320.179 $\chi^2$/NDF:36.0/25

All: -217.058+/-229.603 $\chi^2$/NDF: 64.4/47




Right In: 1456.303+/-0.394 $\chi^2$/NDF: 684806.5/15

Left Out: 881.044+/-0.273 $\chi^2$/NDF:151384.2/6

Right Out: 1541.522+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 925.699+/-0.289 $\chi^2$/NDF:210811.8/5

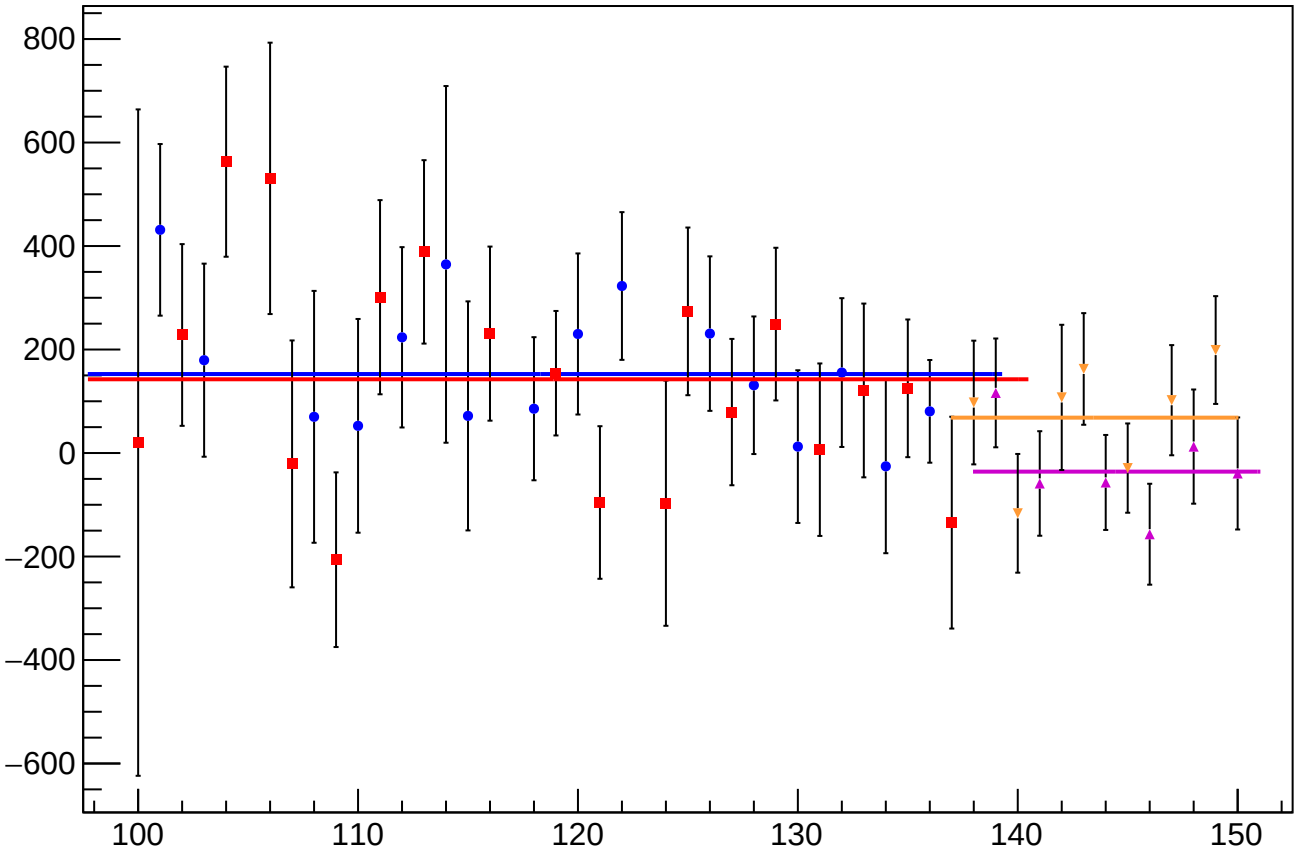
Left: 902.087+/-0.198 $\chi^2$/NDF: 374846.1/12

Right: 1497.600+/-0.283 $\chi^2$/NDF: 1226777.5/34

In: 1110.878+/-0.233 $\chi^2$/NDF:2074416.0/21

Out: 1085.763+/-0.226 $\chi^2$/NDF:2490997.5/25

All: 1097.963+/-0.162 $\chi^2$/NDF: 4571391.0/47




Right In: 152.628+/-39.446 $\chi^2$/NDF: 8.6/15

Left Out: 68.360+/-40.907 $\chi^2$/NDF:6.4/6

Right Out: 142.494+/-39.340 $\chi^2$/NDF: 22.9/18

Left In: -35.971+/-41.529 $\chi^2$/NDF:3.9/5

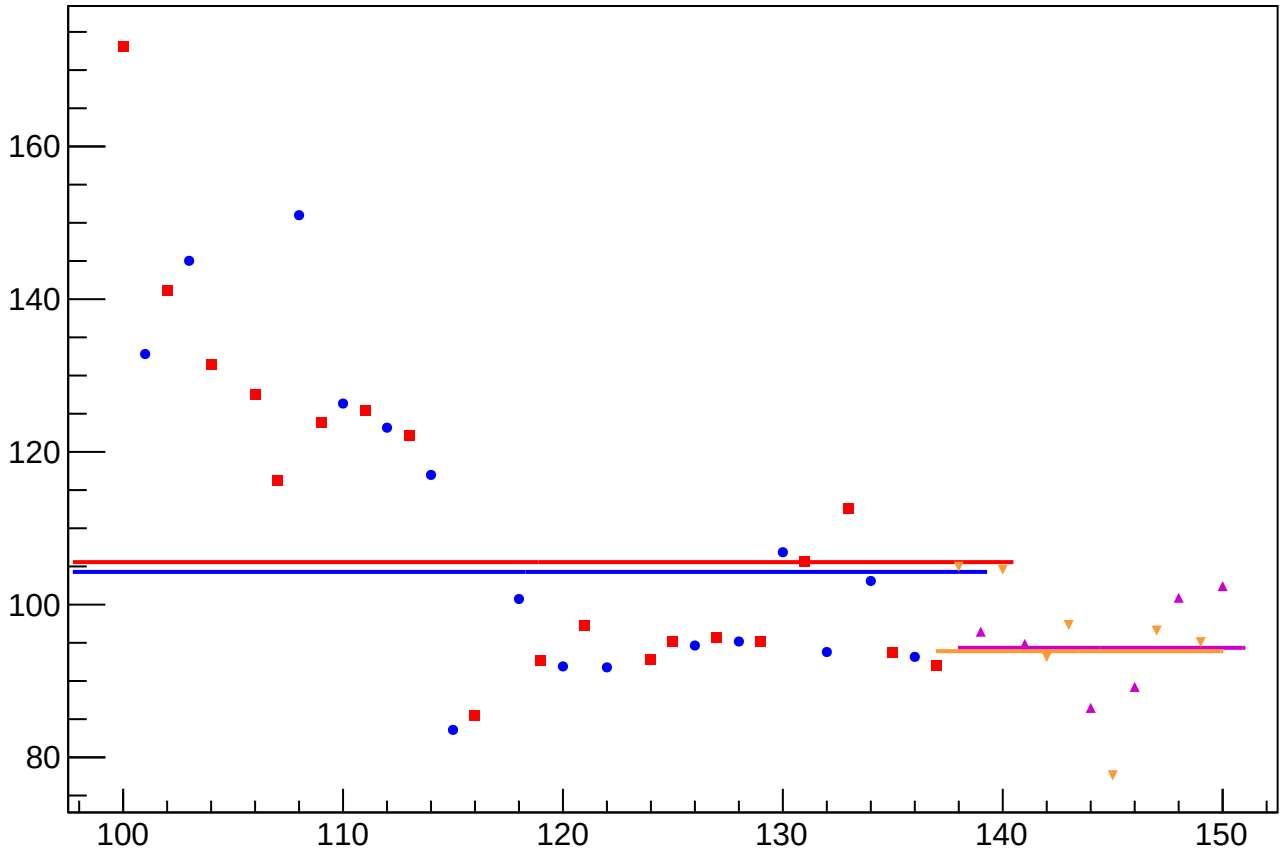
Left: 16.982+/-29.143 $\chi^2$/NDF: 13.6/12

Right: 147.548+/-27.855 $\chi^2$/NDF: 31.6/34

In: 63.178+/-28.601 $\chi^2$/NDF:23.4/21

Out: 106.874+/-28.356 $\chi^2$/NDF:31.1/25

All: 85.214+/-20.137 $\chi^2$/NDF: 55.7/47




Right In: 104.285+/-0.028 $\chi^2$/NDF: 378313.2/15

Left Out: 93.905+/-0.029 $\chi^2$/NDF:109042.0/6

Right Out: 105.567+/-0.028 $\chi^2$/NDF: 344605.1/18

Left In: 94.344+/-0.029 $\chi^2$/NDF:39299.6/5

Left: 94.121+/-0.021 $\chi^2$/NDF: 148454.8/12

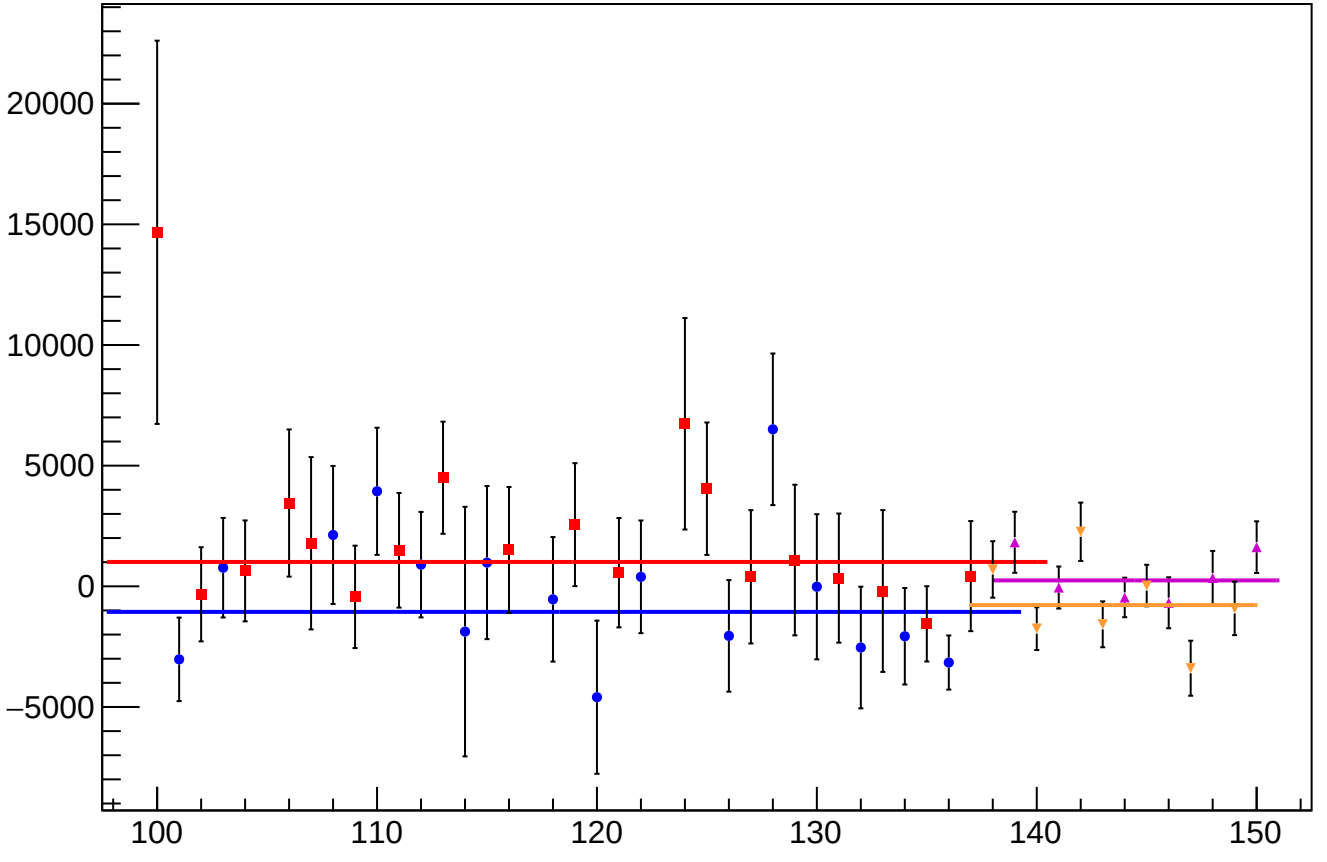
Right: 104.928+/-0.020 $\chi^2$/NDF: 723977.9/34

In: 99.570+/-0.020 $\chi^2$/NDF:477866.0/21

Out: 99.964+/-0.020 $\chi^2$/NDF:538100.2/25

All: 99.769+/-0.014 $\chi^2$/NDF: 1016157.5/47

asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1059.353+/-557.644 $\chi^2$/NDF: 20.0/15

Left Out: -777.364+/-385.437 $\chi^2$/NDF:16.0/6

Right Out: 1009.907+/-575.099 $\chi^2$/NDF: 13.3/18

Left In: 244.783+/-408.296 $\chi^2$/NDF:4.9/5

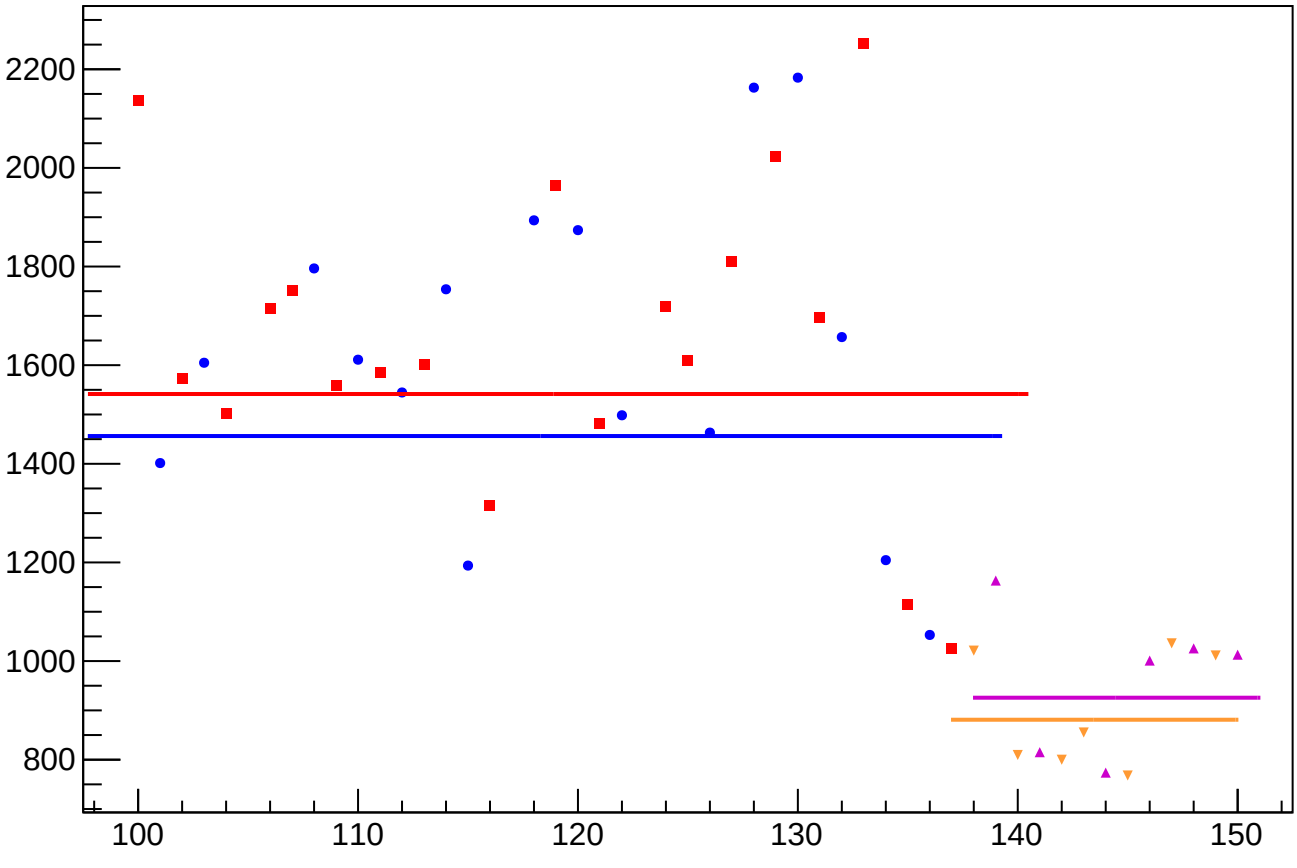
Left: -295.703+/-280.278 $\chi^2$/NDF: 24.2/12

Right: -56.602+/-400.342 $\chi^2$/NDF: 40.0/34

In: -210.355+/-329.433 $\chi^2$/NDF:28.5/21

Out: -223.390+/-320.179 $\chi^2$/NDF:36.0/25

All: -217.058+/-229.602 $\chi^2$/NDF: 64.4/47




Right In: 1456.301+/-0.394 $\chi^2$/NDF: 684803.6/15

Left Out: 881.043+/-0.273 $\chi^2$/NDF:151385.0/6

Right Out: 1541.520+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 925.699+/-0.289 $\chi^2$/NDF:210811.7/5

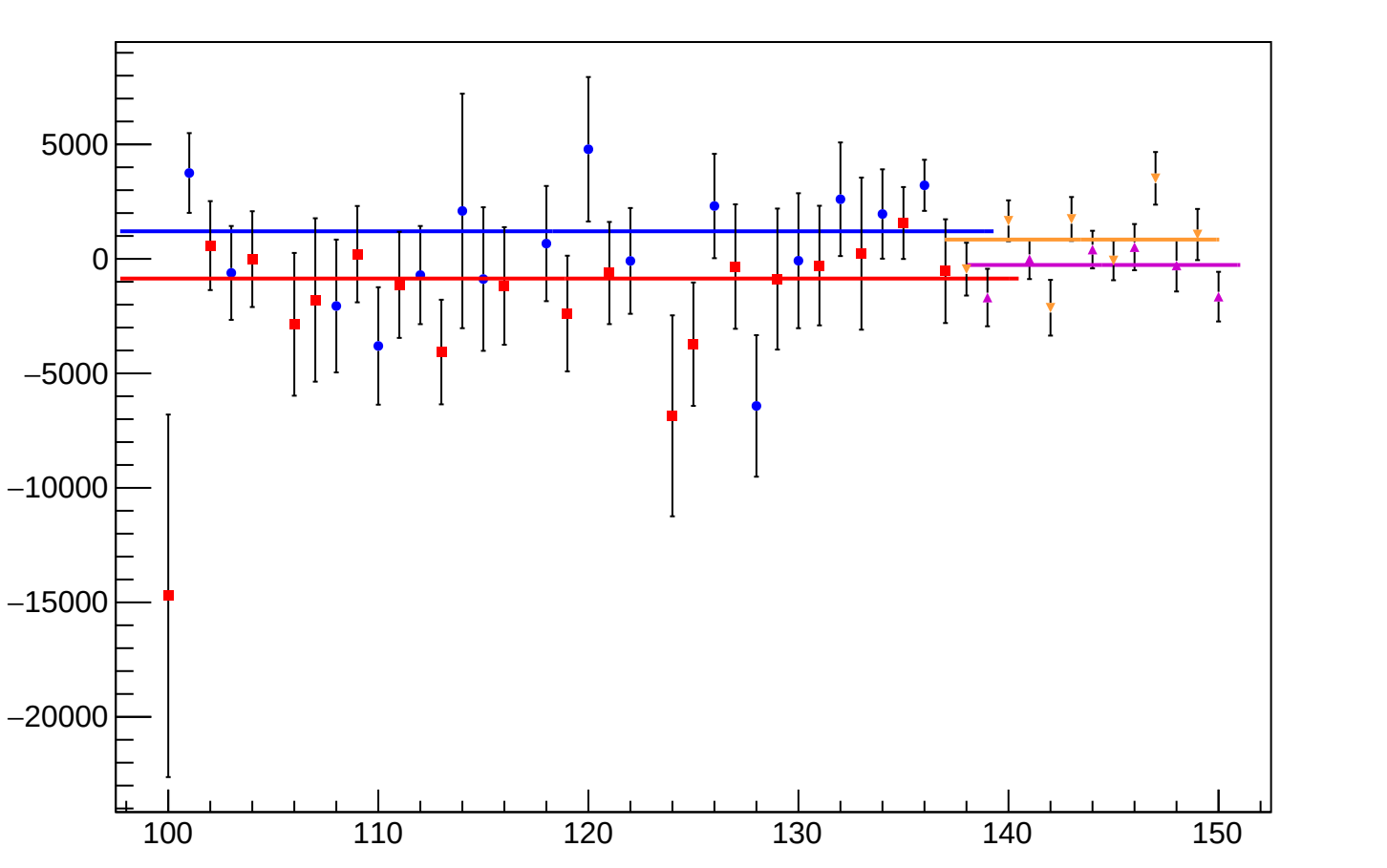
Left: 902.086+/-0.198 $\chi^2$/NDF: 374847.0/12

Right: 1497.597+/-0.283 $\chi^2$/NDF: 1226774.5/34

In: 1110.877+/-0.233 $\chi^2$/NDF:2074408.6/21

Out: 1085.762+/-0.226 $\chi^2$/NDF:2490994.4/25

All: 1097.961+/-0.162 $\chi^2$/NDF: 4571380.6/47




Right In: 1204.691+/-551.729 $\chi^2$/NDF: 21.1/15

Left Out: 843.638+/-387.044 $\chi^2$/NDF:15.5/6

Right Out: -859.290+/-570.391 $\chi^2$/NDF: 12.5/18

Left In: -266.593+/-406.287 $\chi^2$/NDF:4.3/5

Left: 315.436+/-280.237 $\chi^2$/NDF: 23.7/12

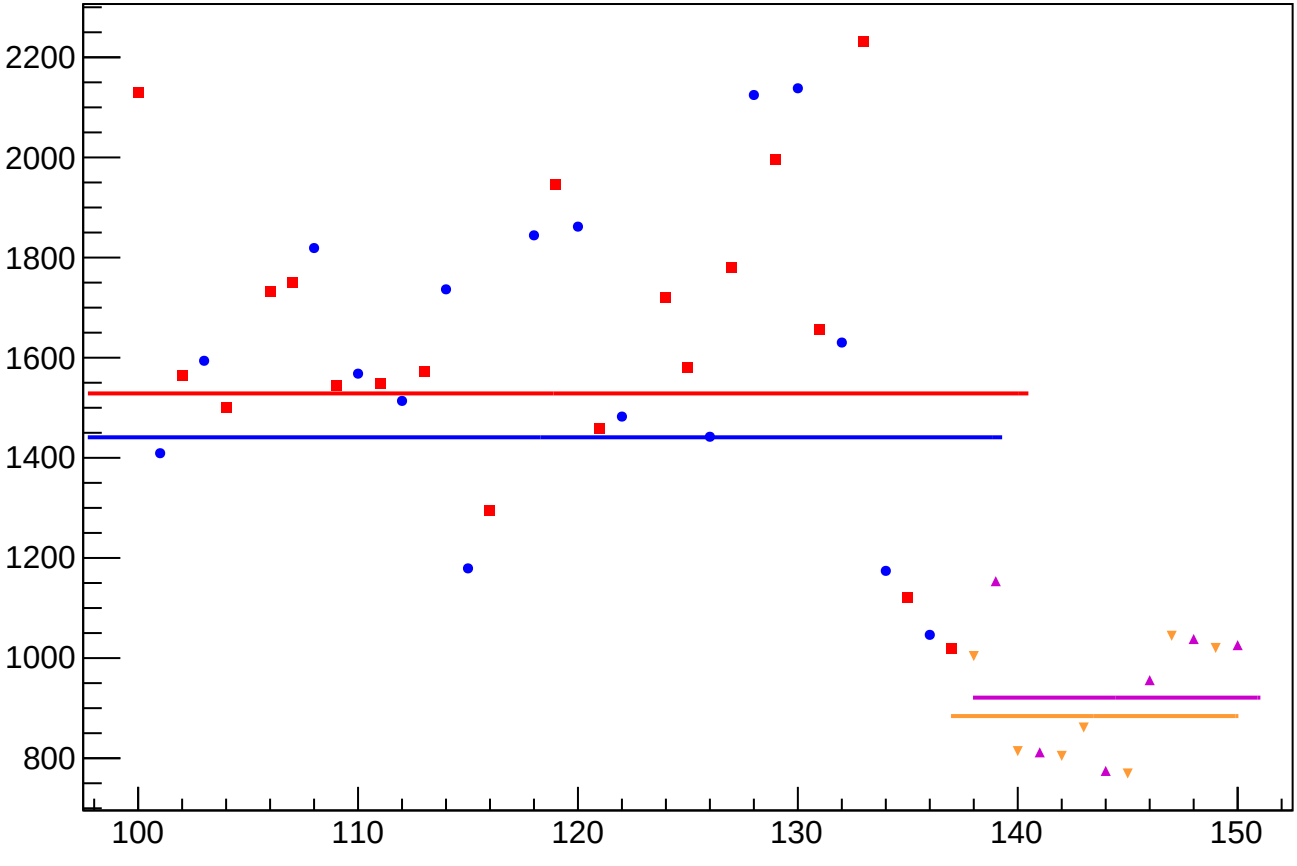
Right: 207.019+/-396.565 $\chi^2$/NDF: 40.4/34

In: 250.717+/-327.154 $\chi^2$/NDF:30.0/21

Out: 306.747+/-320.271 $\chi^2$/NDF:34.1/25

All: 279.328+/-228.861 $\chi^2$/NDF: 64.2/47

# asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 1441.025+/-0.390 $\chi^2$/NDF: 670674.6/15

Left Out: 884.174+/-0.274 $\chi^2$/NDF:147534.8/6

Right Out: 1528.652+/-0.403 $\chi^2$/NDF: 501717.6/18

Left In: 921.030+/-0.287 $\chi^2$/NDF:206429.8/5

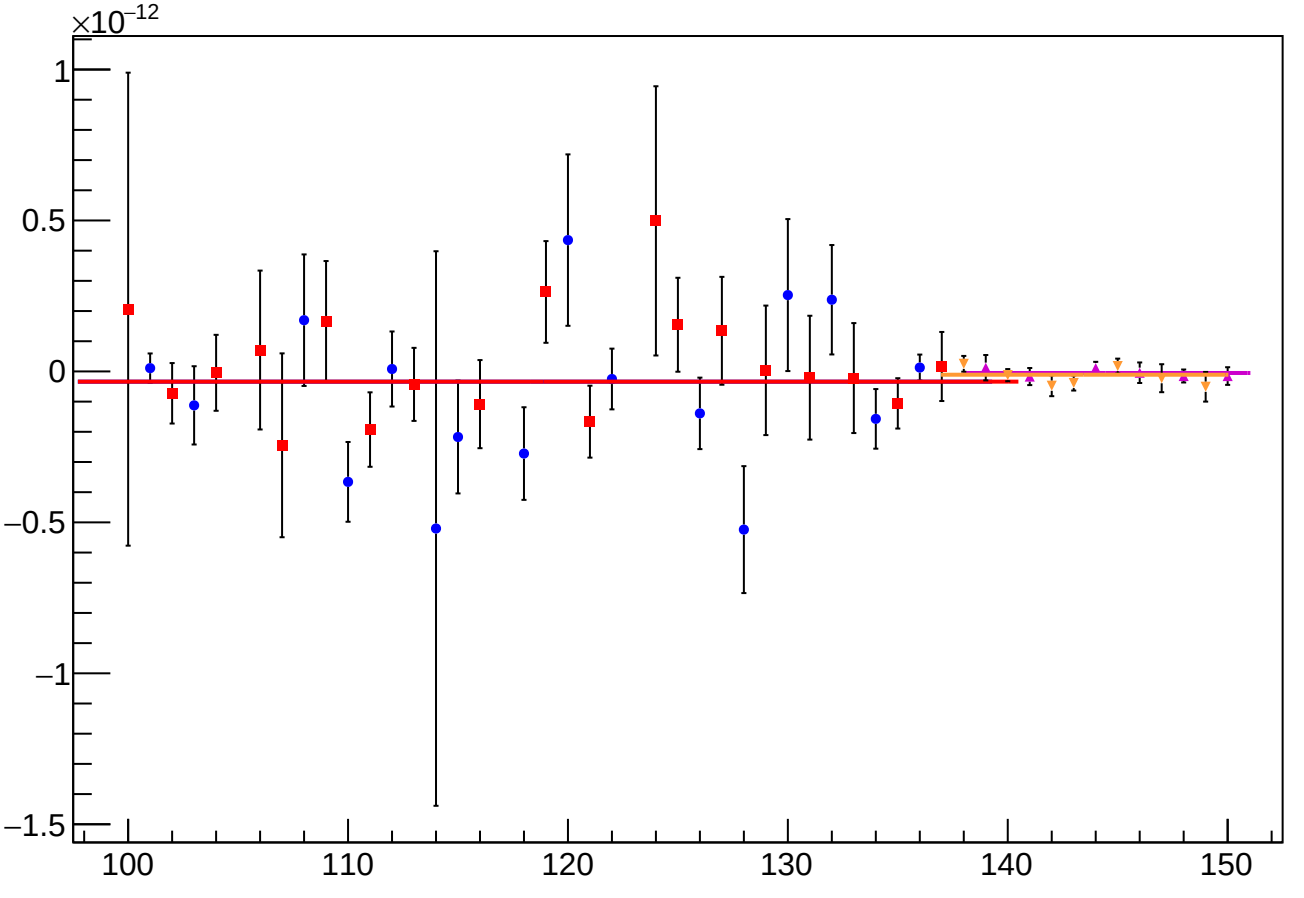
Left: 901.709+/-0.198 $\chi^2$/NDF: 362592.6/12

Right: 1483.381+/-0.280 $\chi^2$/NDF: 1196778.1/34

In: 1103.862+/-0.231 $\chi^2$/NDF:2029010.1/21

Out: 1087.362+/-0.226 $\chi^2$/NDF:2397552.5/25

All: 1095.437+/-0.162 $\chi^2$/NDF: 4429160.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.3/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/5

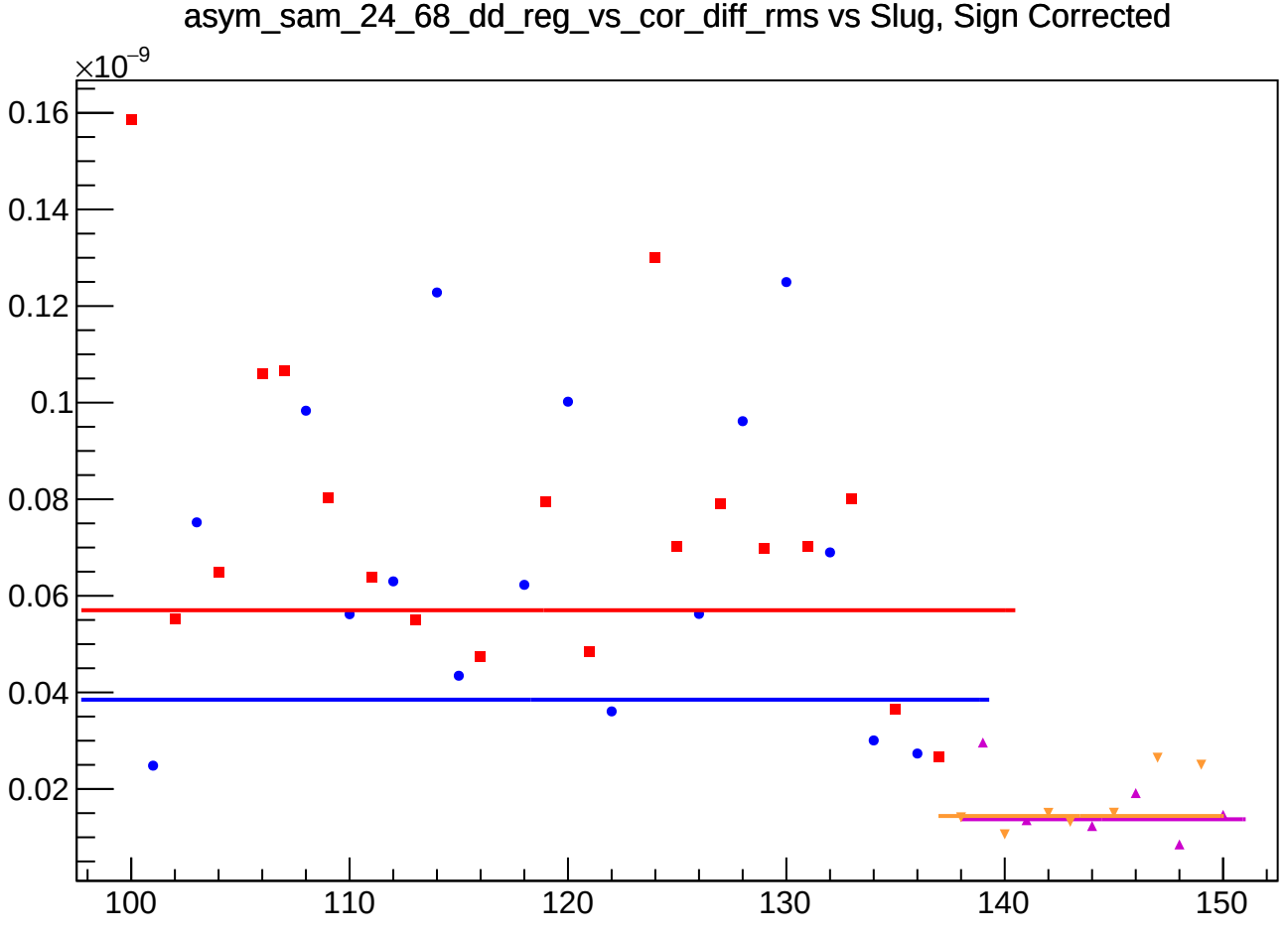
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.7/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:29.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:19.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 49.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1382311.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:306852.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 660994.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:465624.6/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 776396.5/12

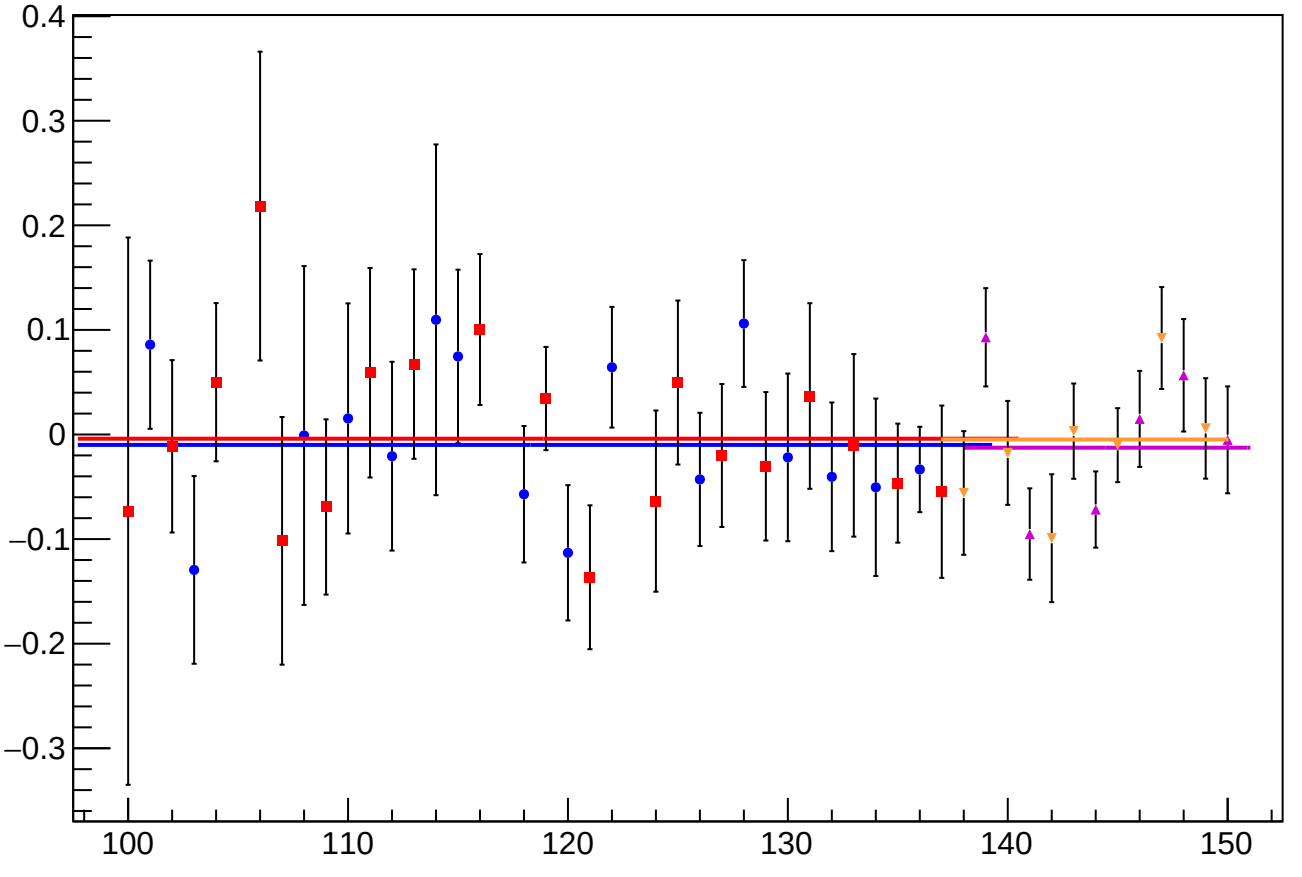
Right: 0.000+/-0.000 $\chi^2$/NDF: 2430892.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3488997.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3860980.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7352771.5/47

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.005+/-0.018 $\chi^2$/NDF:7.3/6

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.013+/-0.018 $\chi^2$/NDF:13.3/5

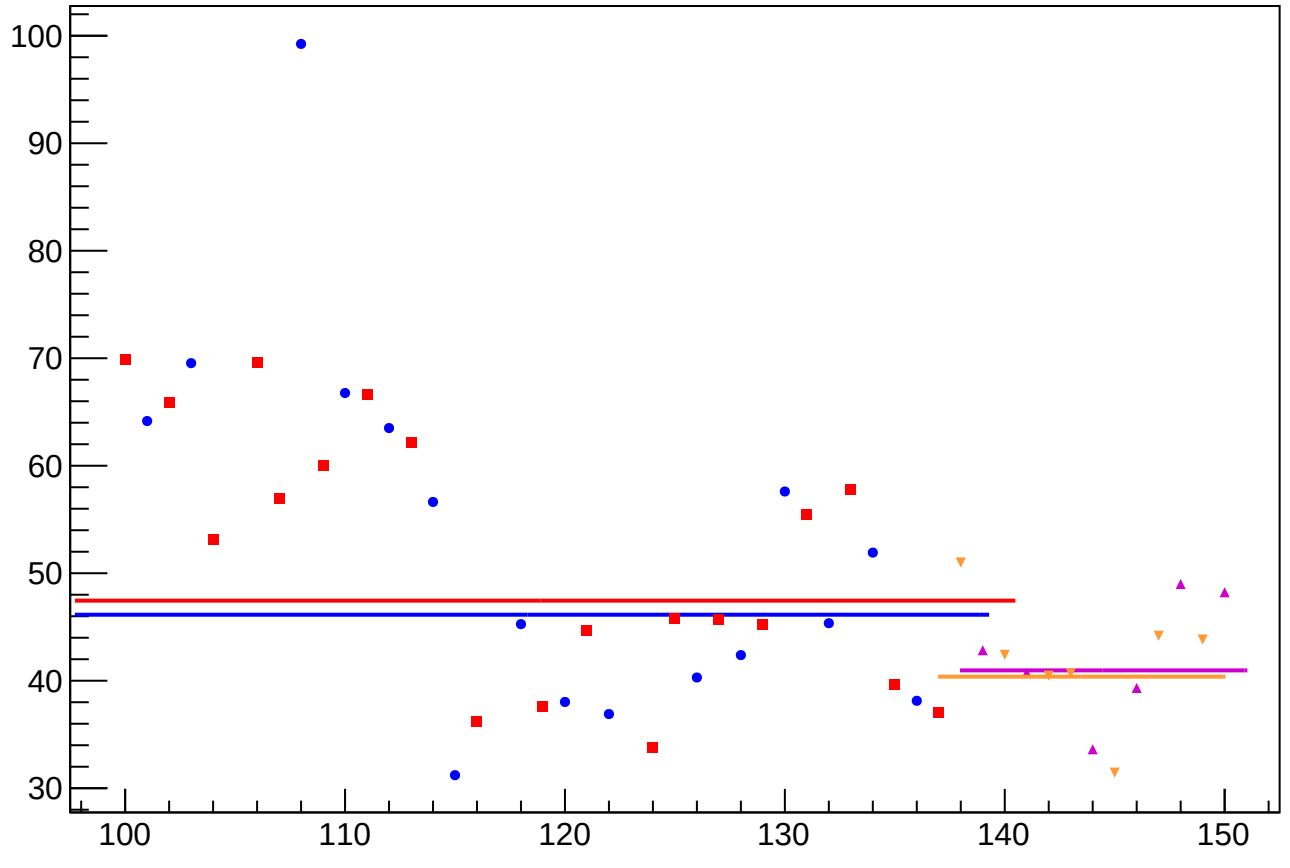
Left: -0.009+/-0.013 $\chi^2$/NDF: 20.6/12

Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.011+/-0.013 $\chi^2$/NDF:27.5/21

Out: -0.004+/-0.013 $\chi^2$/NDF:21.1/25

All: -0.008+/-0.009 $\chi^2$/NDF: 48.8/47




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 40.379+/-0.013 $\chi^2$/NDF:217844.2/6

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 40.963+/-0.013 $\chi^2$/NDF:171912.6/5

Left: 40.663+/-0.009 $\chi^2$/NDF: 390782.8/12

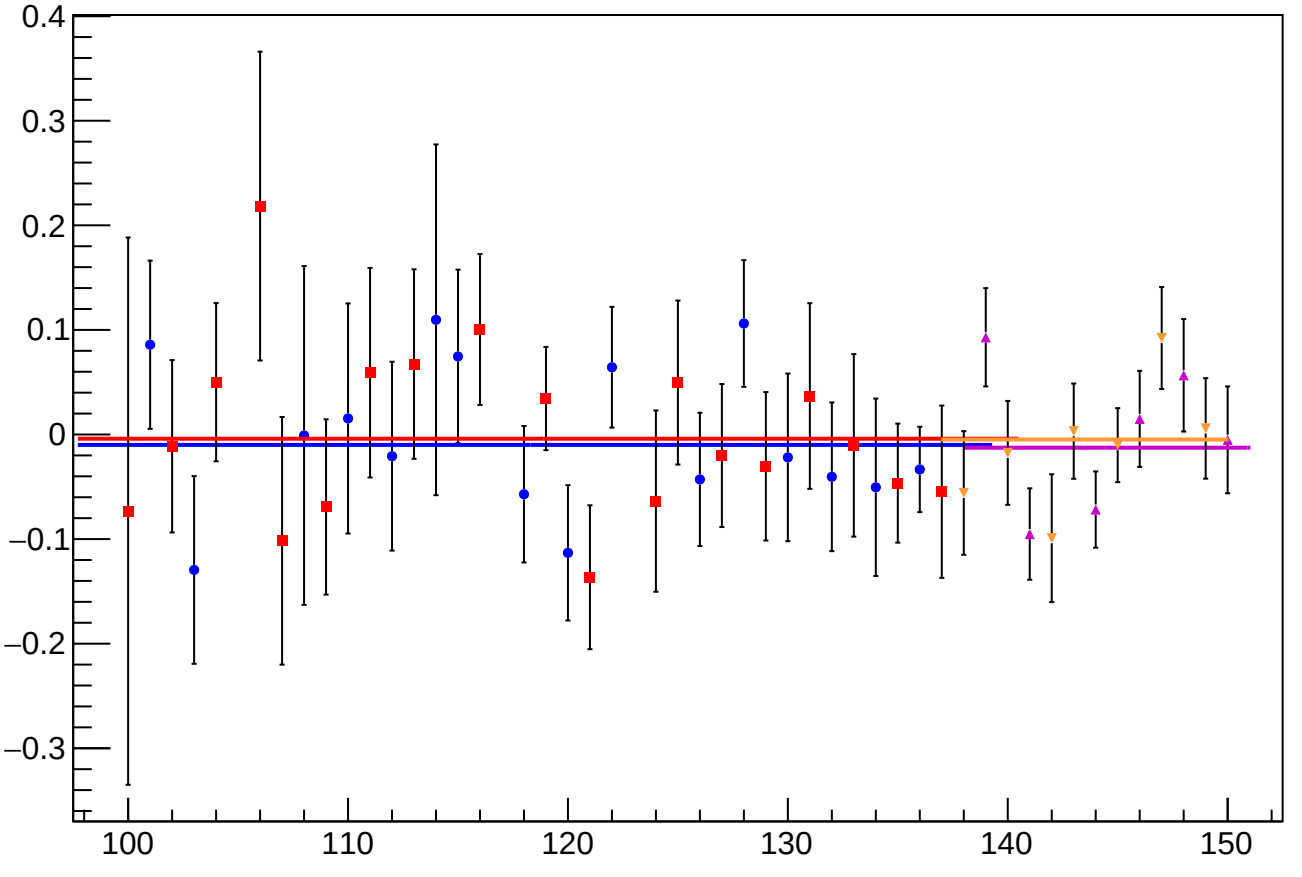
Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 43.619+/-0.009 $\chi^2$/NDF:1155888.7/21

Out: 43.891+/-0.009 $\chi^2$/NDF:1026256.3/25

All: 43.757+/-0.006 $\chi^2$/NDF: 2182596.1/47

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.005+/-0.018 $\chi^2$/NDF:7.3/6

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.013+/-0.018 $\chi^2$/NDF:13.3/5

Left: -0.009+/-0.013 $\chi^2$/NDF: 20.6/12

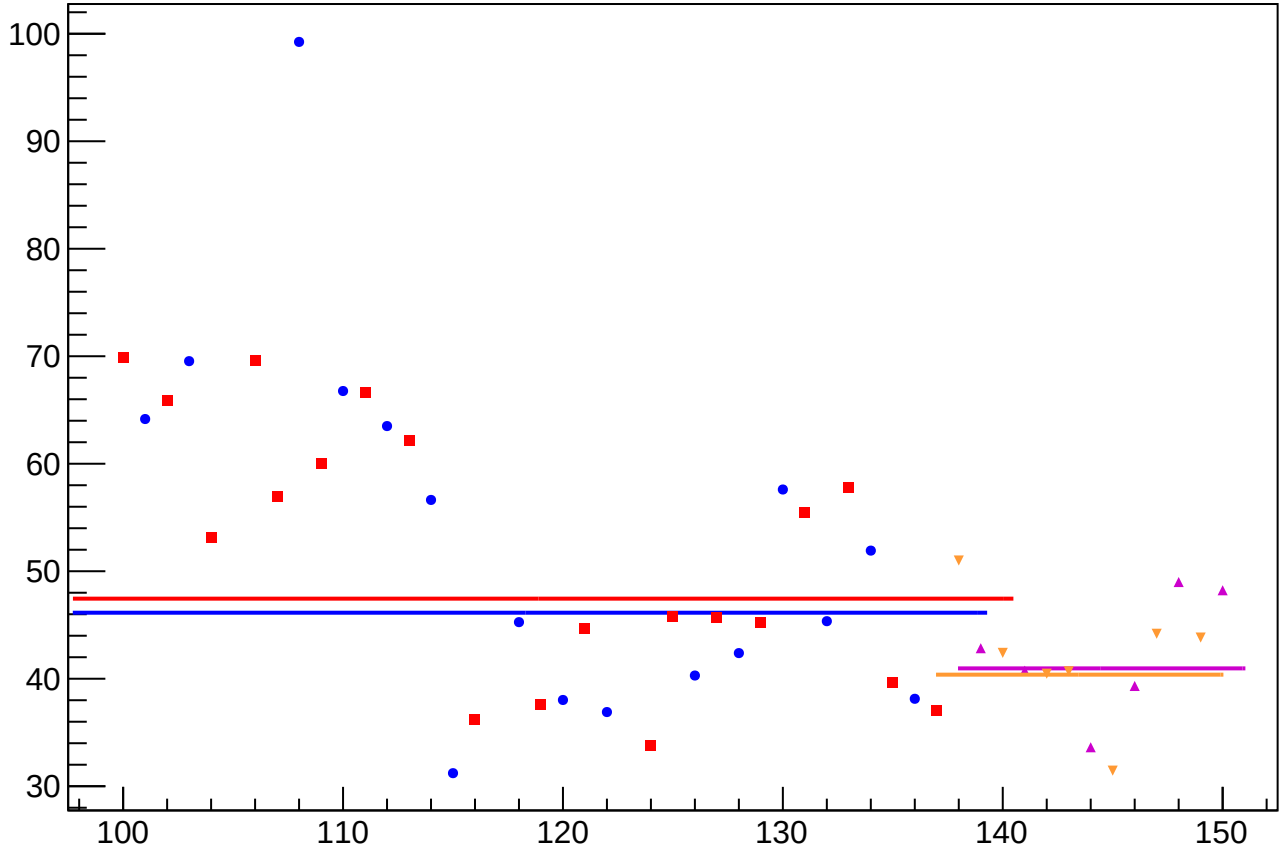
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.011+/-0.013 $\chi^2$/NDF:27.5/21

Out: -0.004+/-0.013 $\chi^2$/NDF:21.1/25

All: -0.008+/-0.009 $\chi^2$/NDF: 48.8/47

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 40.379+/-0.013 $\chi^2$/NDF:217844.2/6

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 40.963+/-0.013 $\chi^2$/NDF:171912.6/5

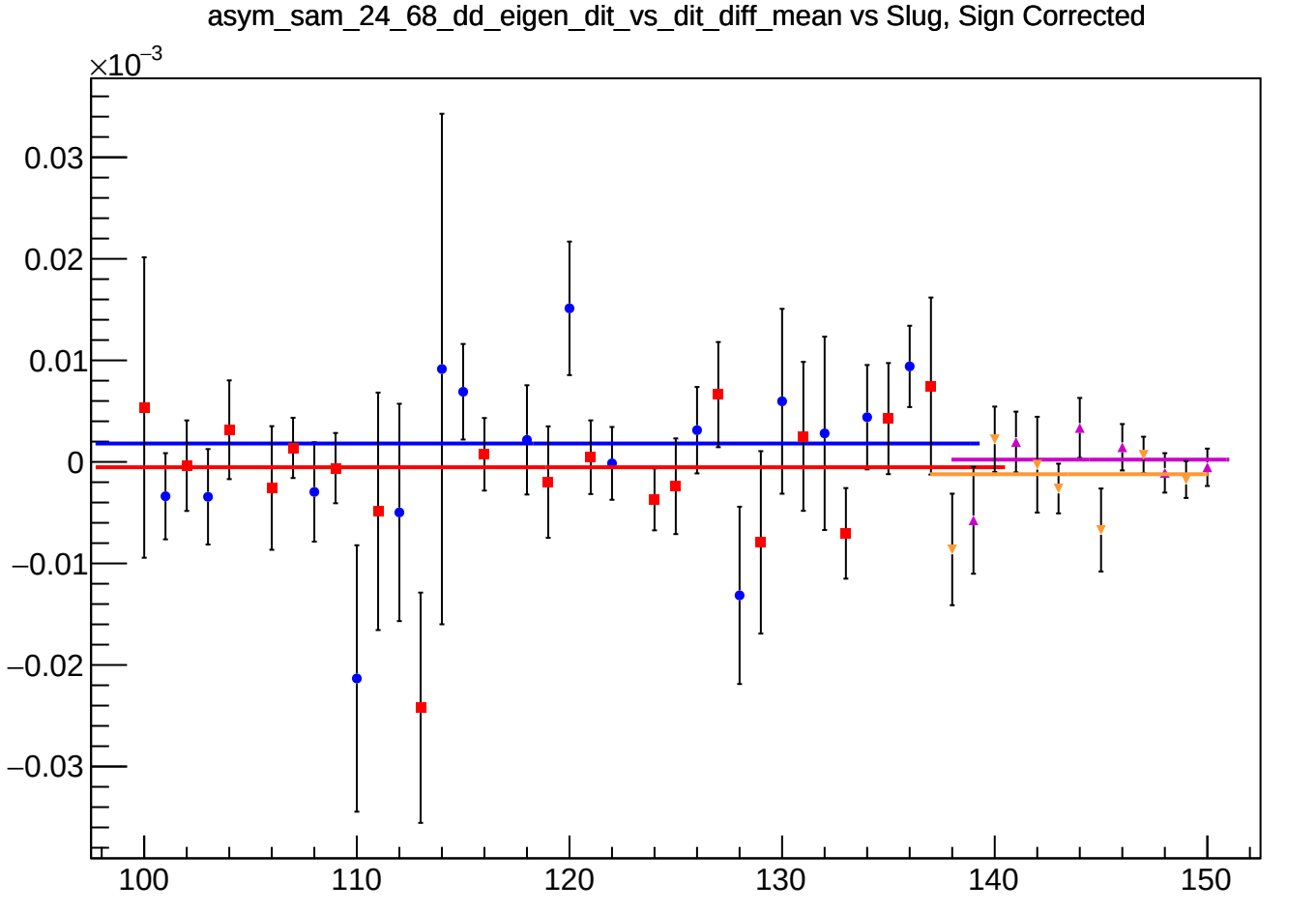
Left: 40.663+/-0.009 $\chi^2$/NDF: 390782.8/12

Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 43.619+/-0.009 $\chi^2$/NDF:1155888.7/21

Out: 43.891+/-0.009 $\chi^2$/NDF:1026256.3/25

All: 43.757+/-0.006 $\chi^2$/NDF: 2182596.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.4/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.7/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 11.1/12

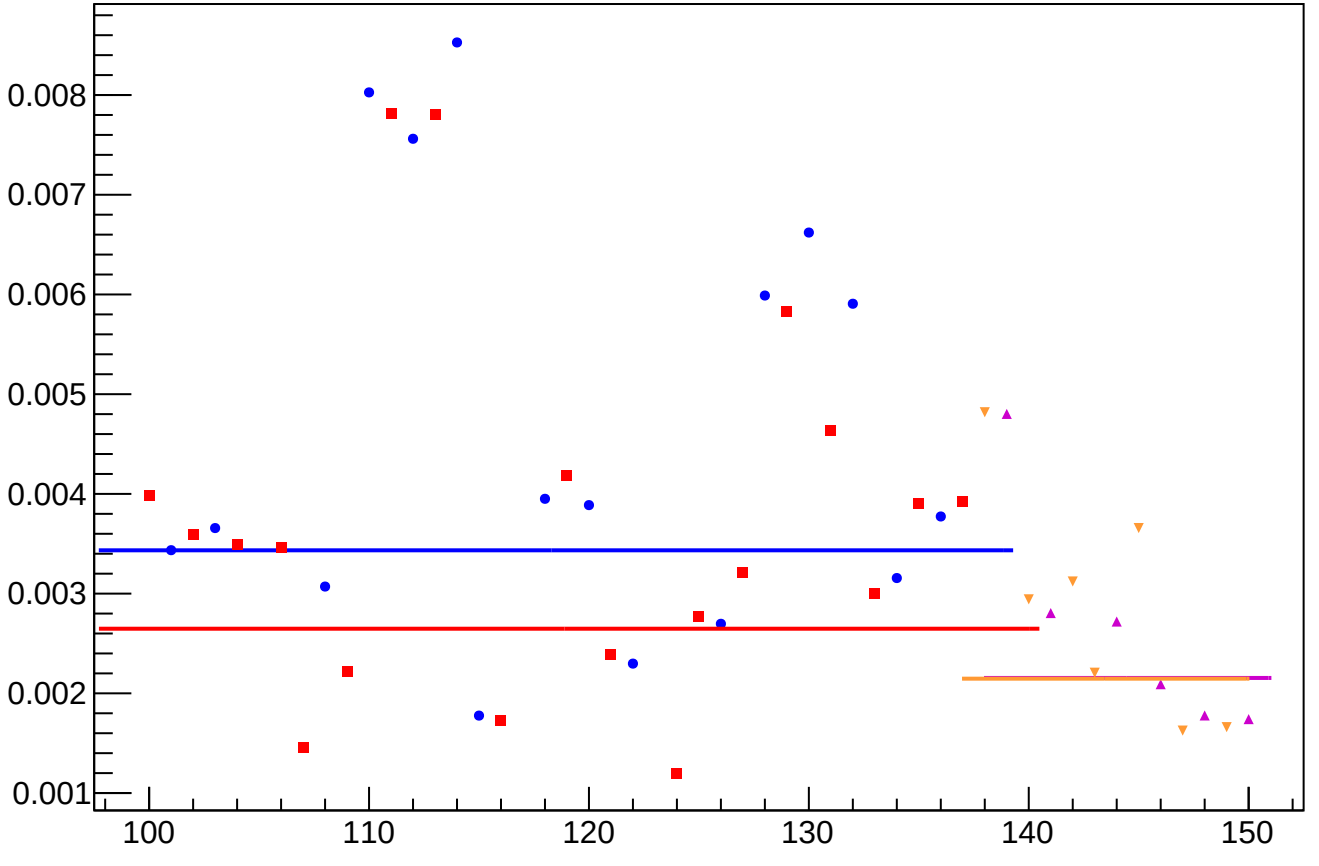
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.5/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 47.2/47

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1748561.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1267835.8/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2696872.6/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:851925.9/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 2119814.1/12

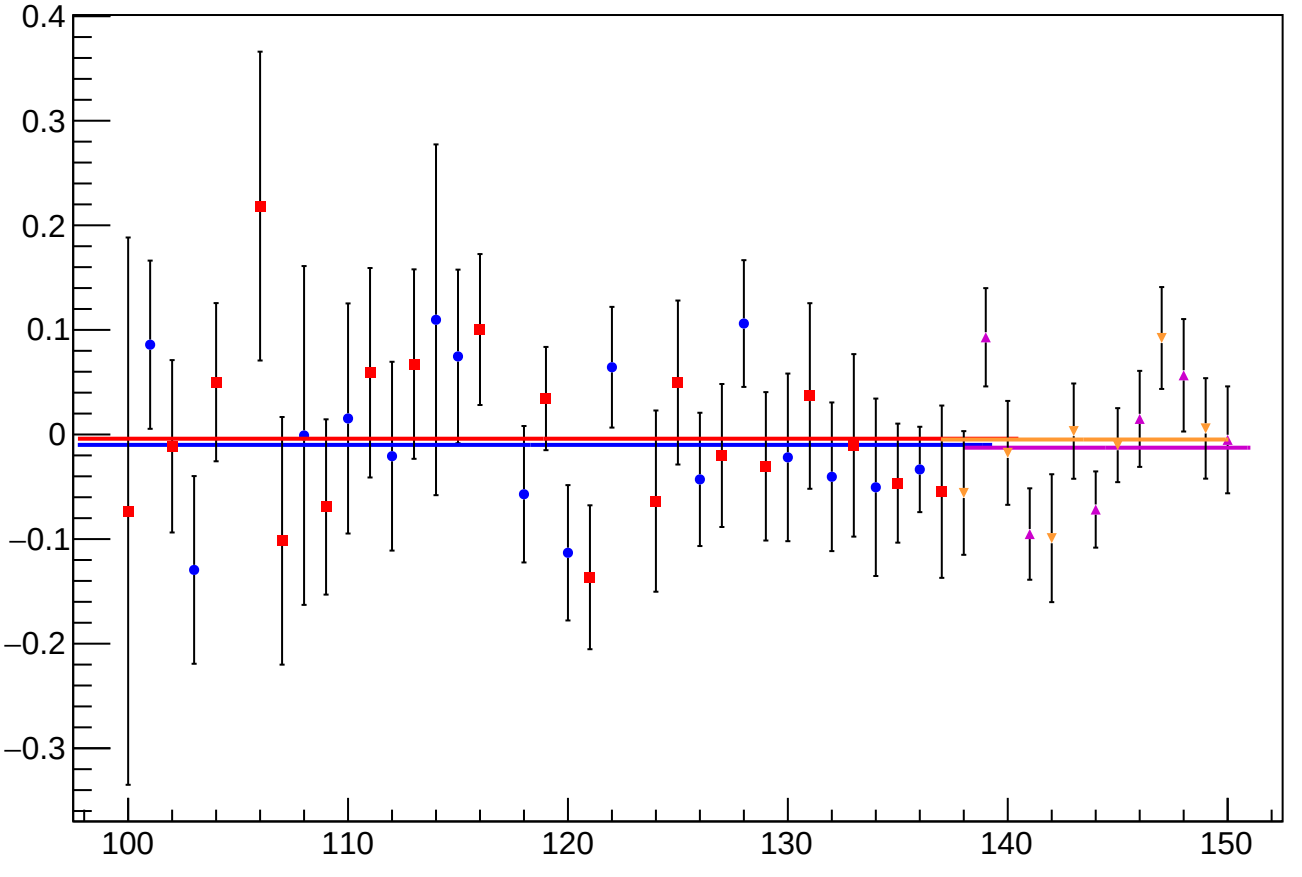
Right: 0.003+/-0.000 $\chi^2$/NDF: 4848064.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:3742463.1/21

Out: 0.002+/-0.000 $\chi^2$/NDF:4195802.1/25

All: 0.002+/-0.000 $\chi^2$/NDF: 8020108.3/47

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.005+/-0.018 $\chi^2$/NDF:7.3/6

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.013+/-0.018 $\chi^2$/NDF:13.3/5

Left: -0.009+/-0.013 $\chi^2$/NDF: 20.6/12

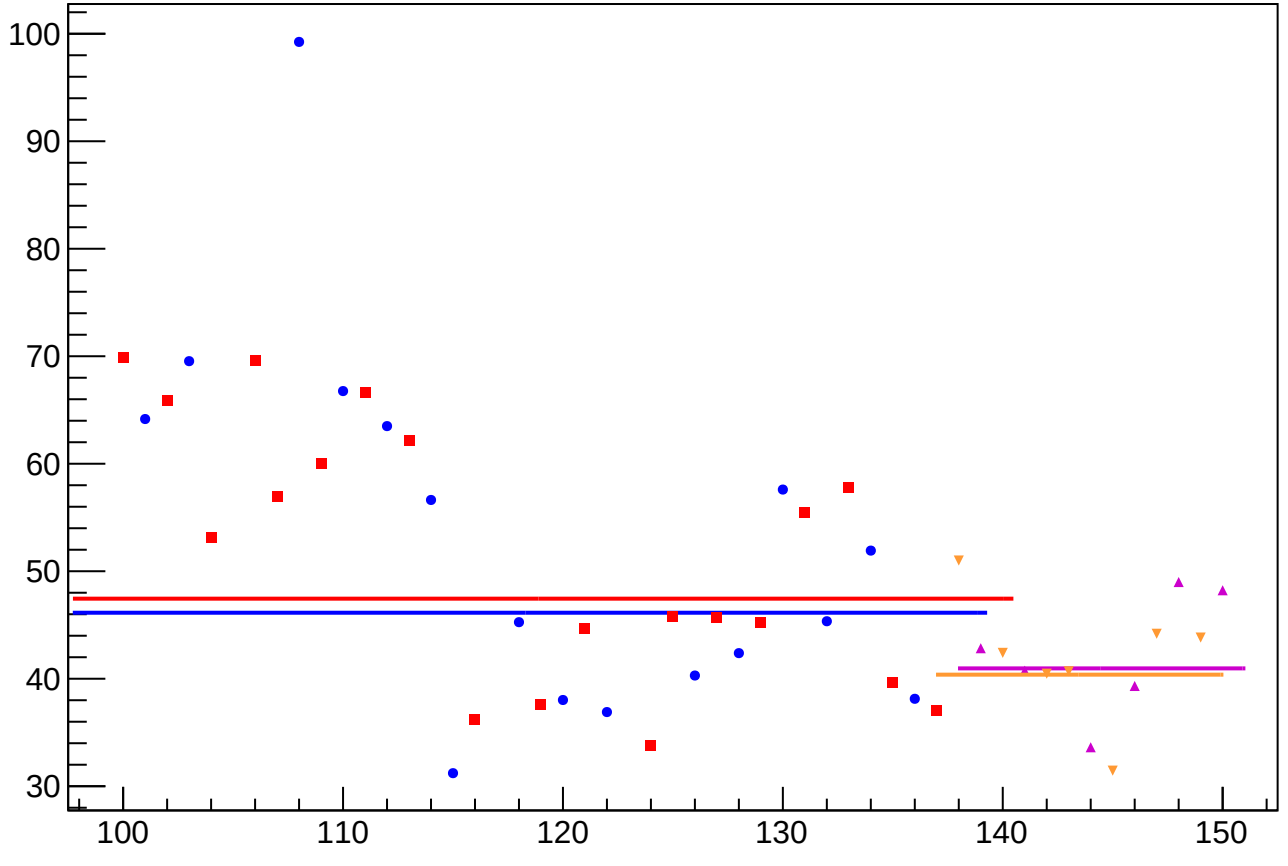
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.011+/-0.013 $\chi^2$/NDF:27.5/21

Out: -0.004+/-0.013 $\chi^2$/NDF:21.1/25

All: -0.008+/-0.009 $\chi^2$/NDF: 48.8/47

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.140+/-0.013 $\chi^2$/NDF: 903251.1/15

Left Out: 40.379+/-0.013 $\chi^2$/NDF:217841.2/6

Right Out: 47.448+/-0.013 $\chi^2$/NDF: 654687.8/18

Left In: 40.962+/-0.013 $\chi^2$/NDF:171917.8/5

Left: 40.663+/-0.009 $\chi^2$/NDF: 390784.1/12

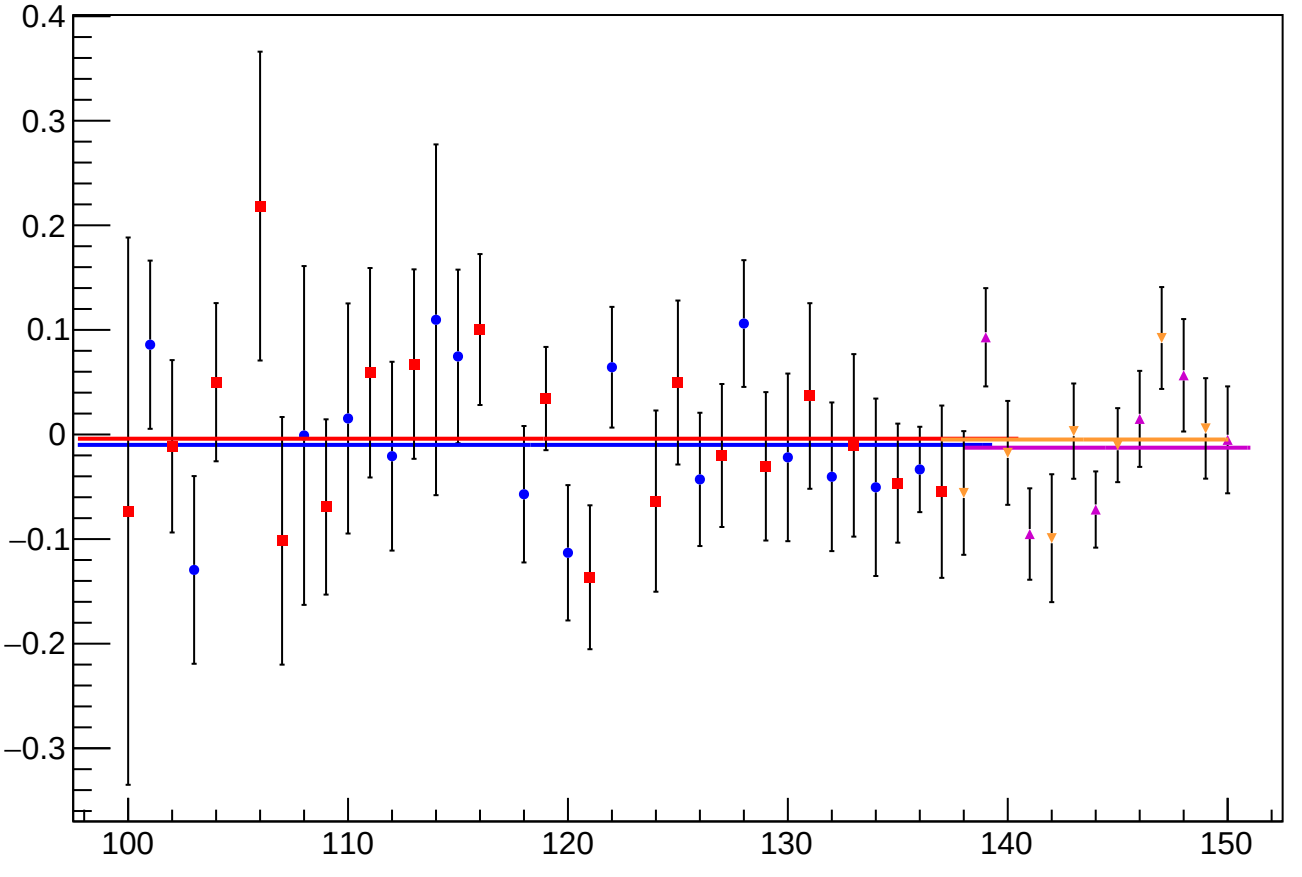
Right: 46.790+/-0.009 $\chi^2$/NDF: 1563199.9/34

In: 43.618+/-0.009 $\chi^2$/NDF:1155825.4/21

Out: 43.891+/-0.009 $\chi^2$/NDF:1026197.1/25

All: 43.756+/-0.006 $\chi^2$/NDF: 2182474.8/47

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.005+/-0.018 $\chi^2$/NDF:7.3/6

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.013+/-0.018 $\chi^2$/NDF:13.3/5

Left: -0.009+/-0.013 $\chi^2$/NDF: 20.6/12

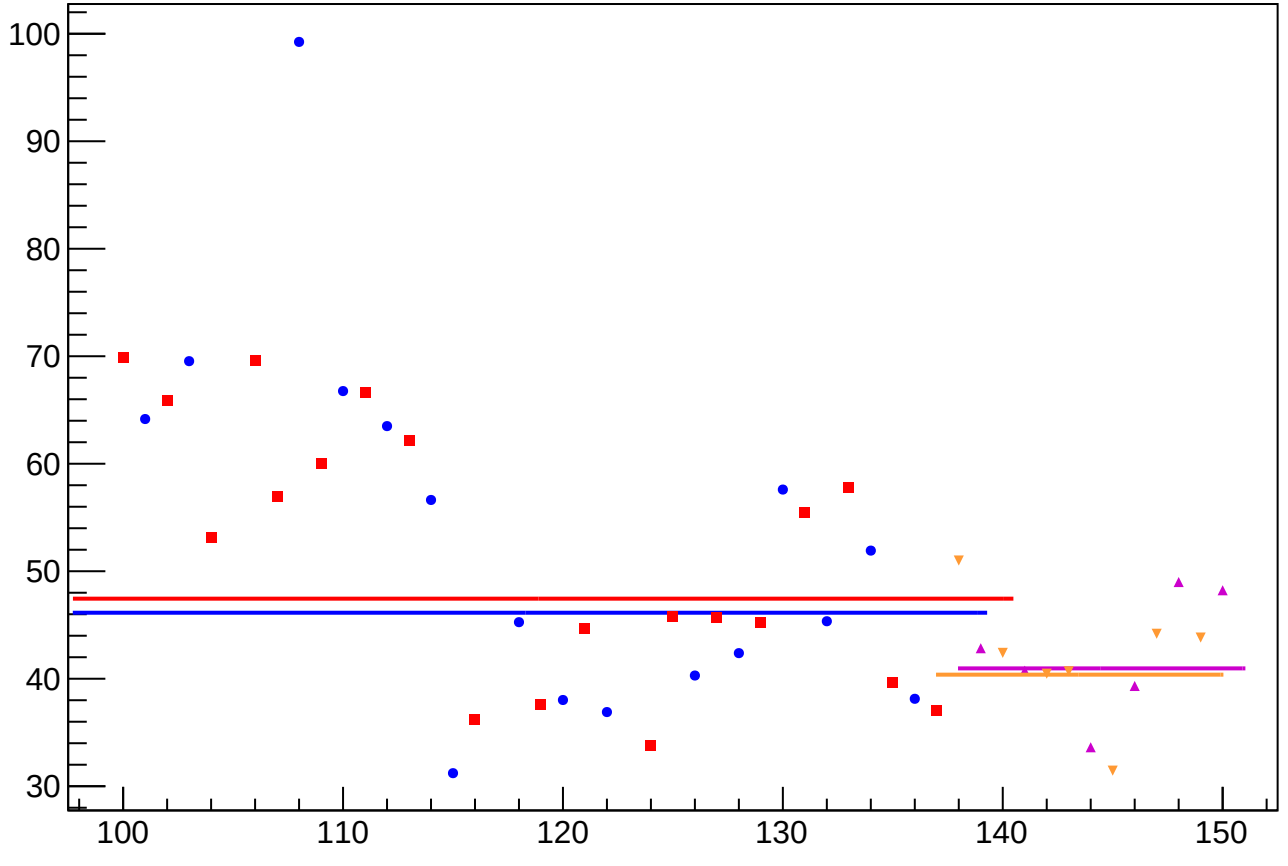
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.011+/-0.013 $\chi^2$/NDF:27.5/21

Out: -0.004+/-0.013 $\chi^2$/NDF:21.1/25

All: -0.008+/-0.009 $\chi^2$/NDF: 48.8/47

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.140+/-0.013 $\chi^2$/NDF: 903251.1/15

Left Out: 40.379+/-0.013 $\chi^2$/NDF:217841.2/6

Right Out: 47.448+/-0.013 $\chi^2$/NDF: 654687.8/18

Left In: 40.962+/-0.013 $\chi^2$/NDF:171917.8/5

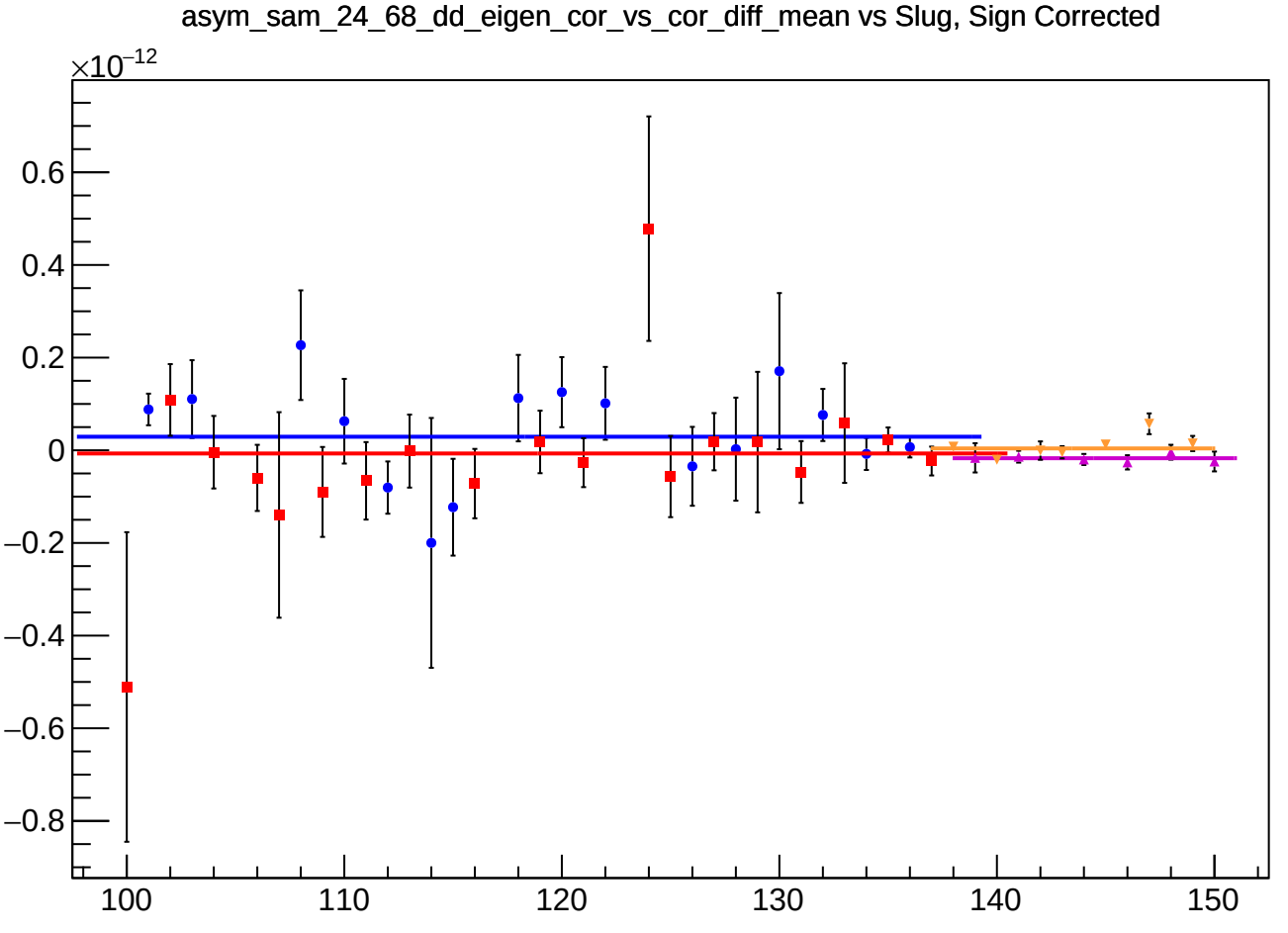
Left: 40.663+/-0.009 $\chi^2$/NDF: 390784.1/12

Right: 46.790+/-0.009 $\chi^2$/NDF: 1563199.9/34

In: 43.618+/-0.009 $\chi^2$/NDF:1155825.4/21

Out: 43.891+/-0.009 $\chi^2$/NDF:1026197.1/25

All: 43.756+/-0.006 $\chi^2$/NDF: 2182474.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:12.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.2/5

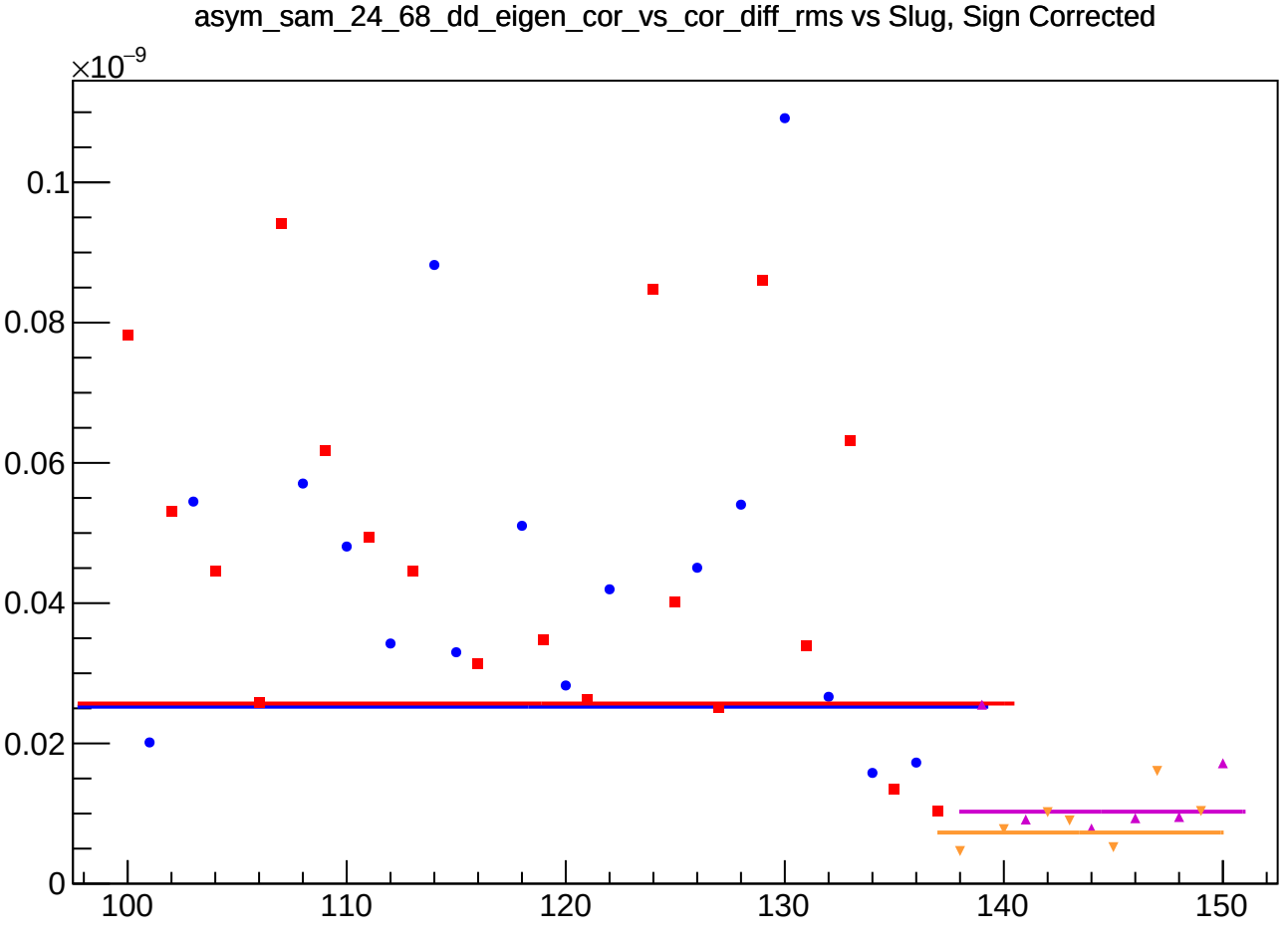
Left: -0.000+/-0.000 $\chi^2$/NDF: 21.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:31.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 61.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2117960.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:701057.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2790840.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:782999.0/5

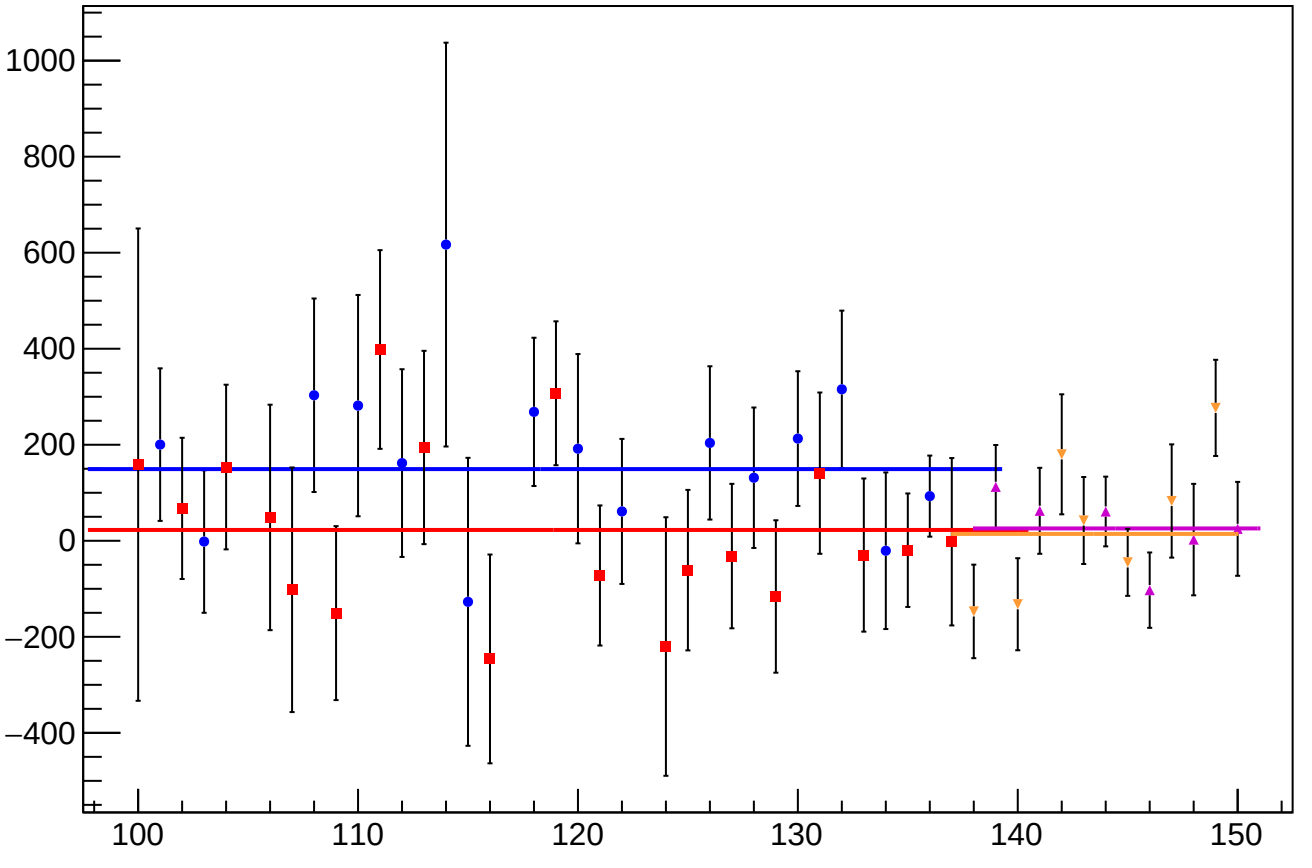
Left: 0.000+/-0.000 $\chi^2$/NDF: 1761868.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 4909837.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4905278.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6456461.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11925883.2/47




Right In: 149.303+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: 14.290+/-35.872 $\chi^2$/NDF:14.9/6

Right Out: 22.549+/-40.100 $\chi^2$/NDF: 14.2/18

Left In: 25.717+/-35.640 $\chi^2$/NDF:4.1/5

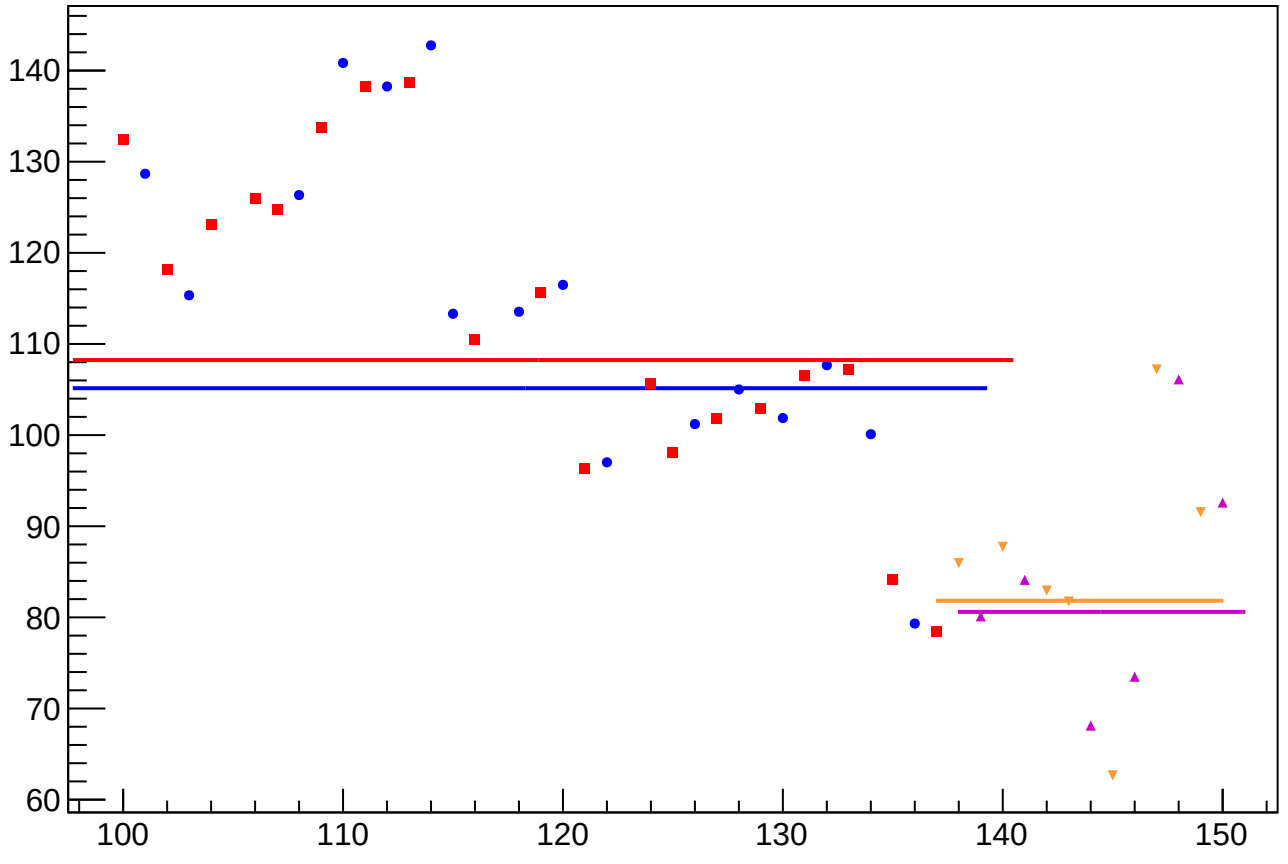
Left: 20.041+/-25.283 $\chi^2$/NDF: 19.0/12

Right: 86.583+/-28.208 $\chi^2$/NDF: 27.3/34

In: 80.888+/-26.517 $\chi^2$/NDF:17.5/21

Out: 17.961+/-26.736 $\chi^2$/NDF:29.1/25

All: 49.684+/-18.827 $\chi^2$/NDF: 49.4/47




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.3/15

Left Out: 81.822+/-0.025 $\chi^2$/NDF:273660.3/6

Right Out: 108.233+/-0.028 $\chi^2$/NDF: 349936.1/18

Left In: 80.603+/-0.025 $\chi^2$/NDF:205409.2/5

Left: 81.209+/-0.018 $\chi^2$/NDF: 480230.6/12

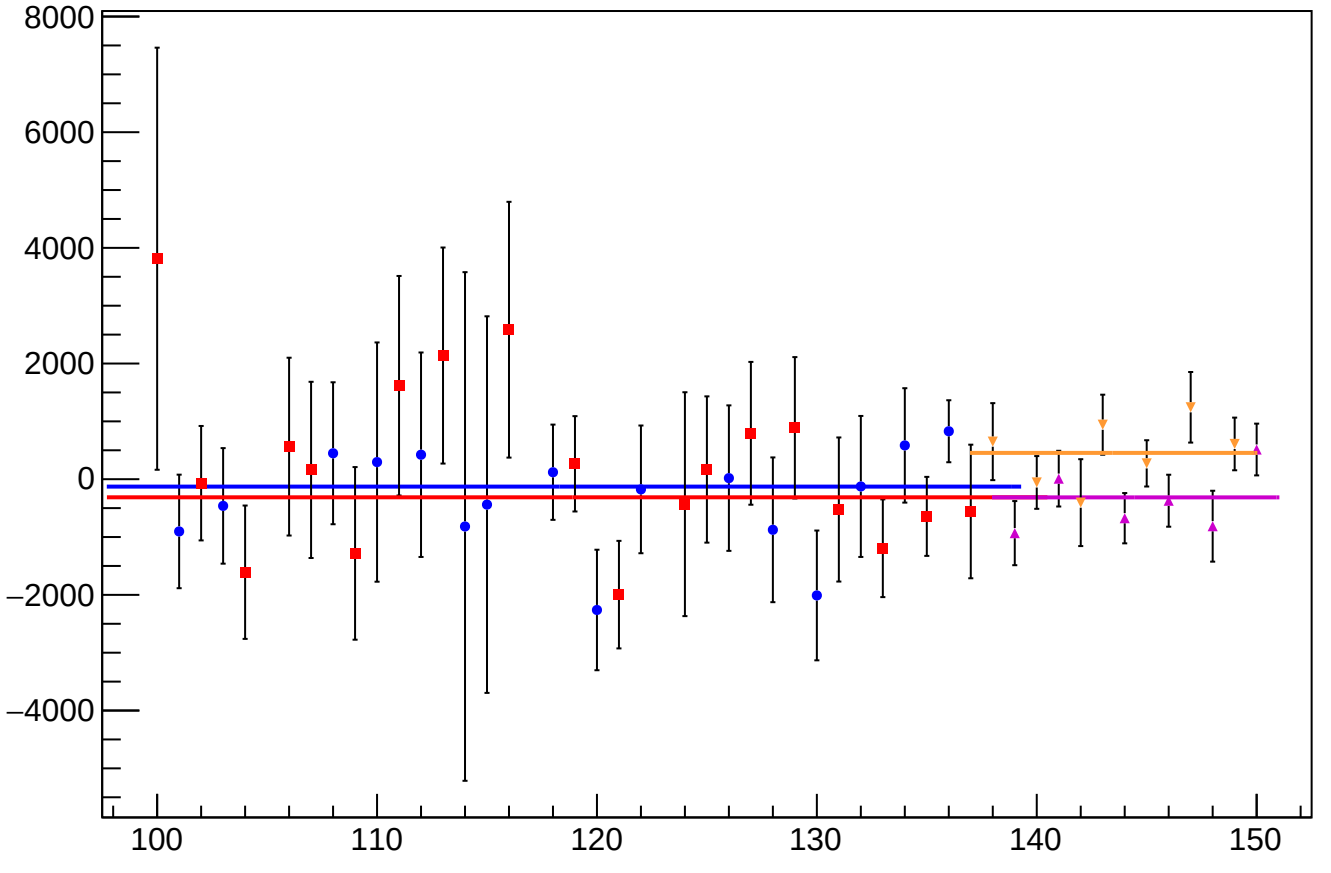
Right: 106.674+/-0.020 $\chi^2$/NDF: 764328.3/34

In: 91.560+/-0.019 $\chi^2$/NDF:1037229.1/21

Out: 93.562+/-0.019 $\chi^2$/NDF:1105515.2/25

All: 92.553+/-0.013 $\chi^2$/NDF: 2148398.6/47

asym_sam_26_48_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -128.056+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 454.882+/-194.976 $\chi^2$/NDF:5.5/6

Right Out: -313.031+/-270.131 $\chi^2$/NDF: 15.0/18

Left In: -314.325+/-198.201 $\chi^2$/NDF:6.5/5

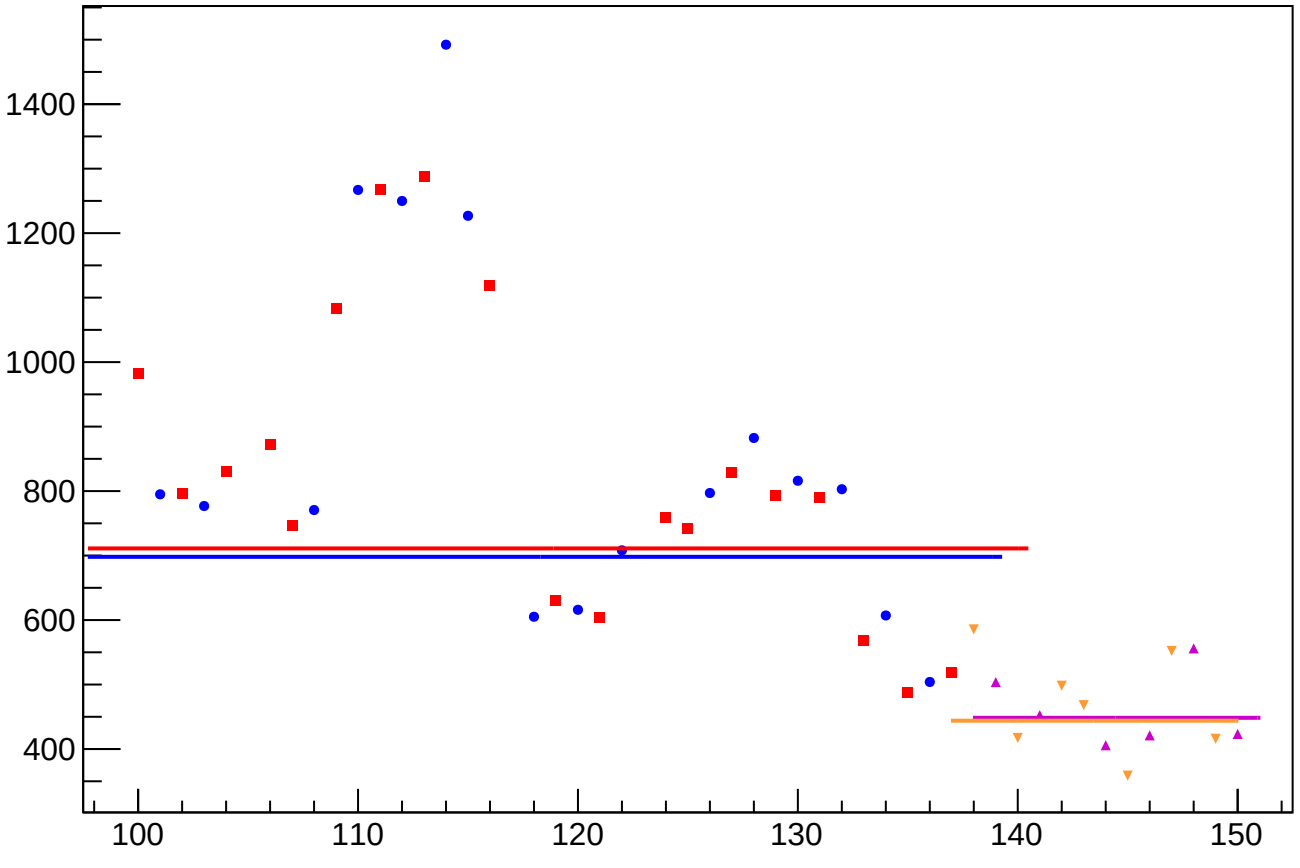
Left: 76.589+/-138.995 $\chi^2$/NDF: 19.7/12

Right: -220.022+/-190.472 $\chi^2$/NDF: 27.5/34

In: -248.660+/-159.485 $\chi^2$/NDF:19.1/21

Out: 191.853+/-158.096 $\chi^2$/NDF:25.8/25

All: -26.478+/-112.278 $\chi^2$/NDF: 48.8/47




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912851.5/15

Left Out: 443.948+/-0.138 $\chi^2$/NDF:273101.5/6

Right Out: 711.088+/-0.191 $\chi^2$/NDF: 1035118.4/18

Left In: 448.421+/-0.140 $\chi^2$/NDF:114564.7/5

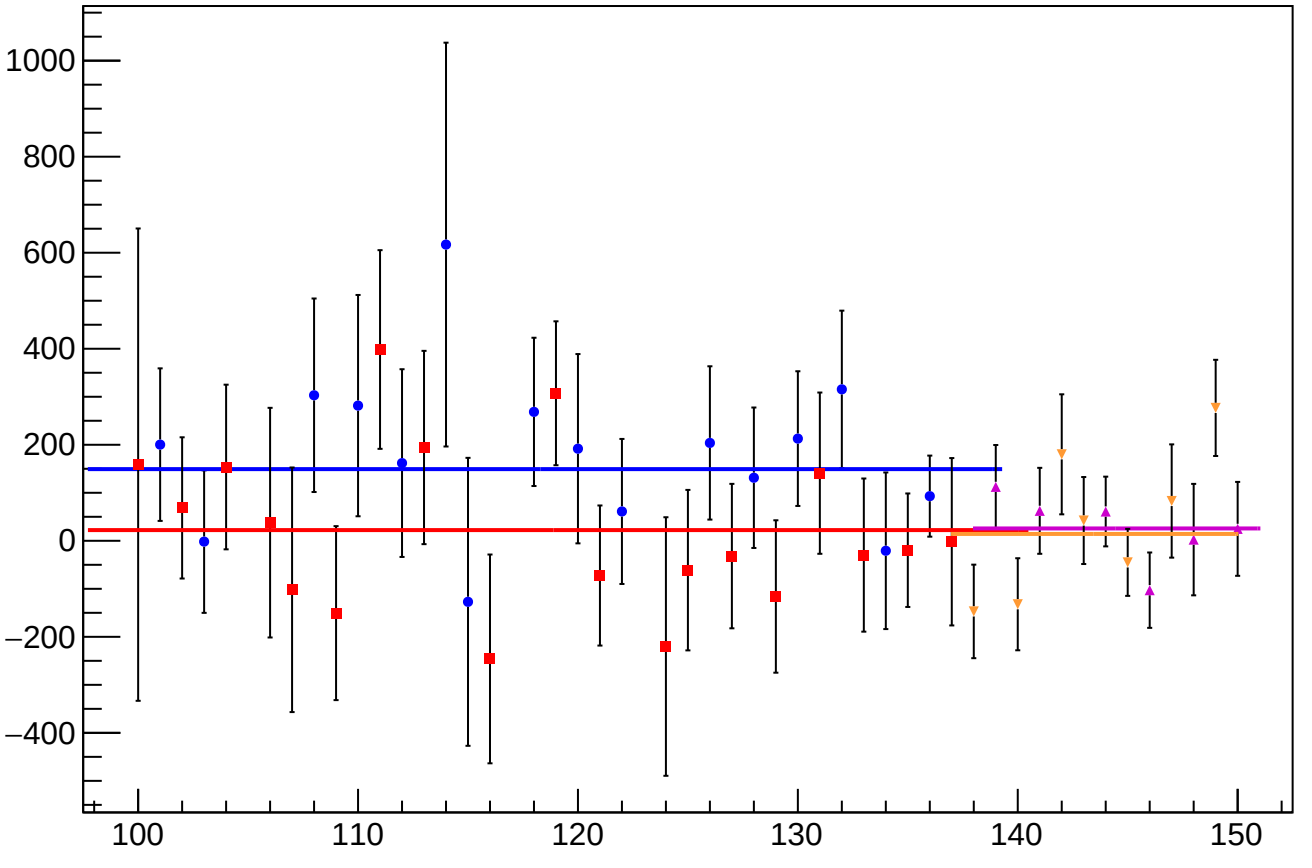
Left: 446.148+/-0.098 $\chi^2$/NDF: 388183.9/12

Right: 704.534+/-0.135 $\chi^2$/NDF: 1950310.9/34

In: 536.423+/-0.113 $\chi^2$/NDF:2145853.0/21

Out: 535.450+/-0.112 $\chi^2$/NDF:2594210.7/25

All: 535.932+/-0.079 $\chi^2$/NDF: 4740101.3/47




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: 14.285+/-35.872 $\chi^2$/NDF:14.9/6

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 25.714+/-35.640 $\chi^2$/NDF:4.1/5

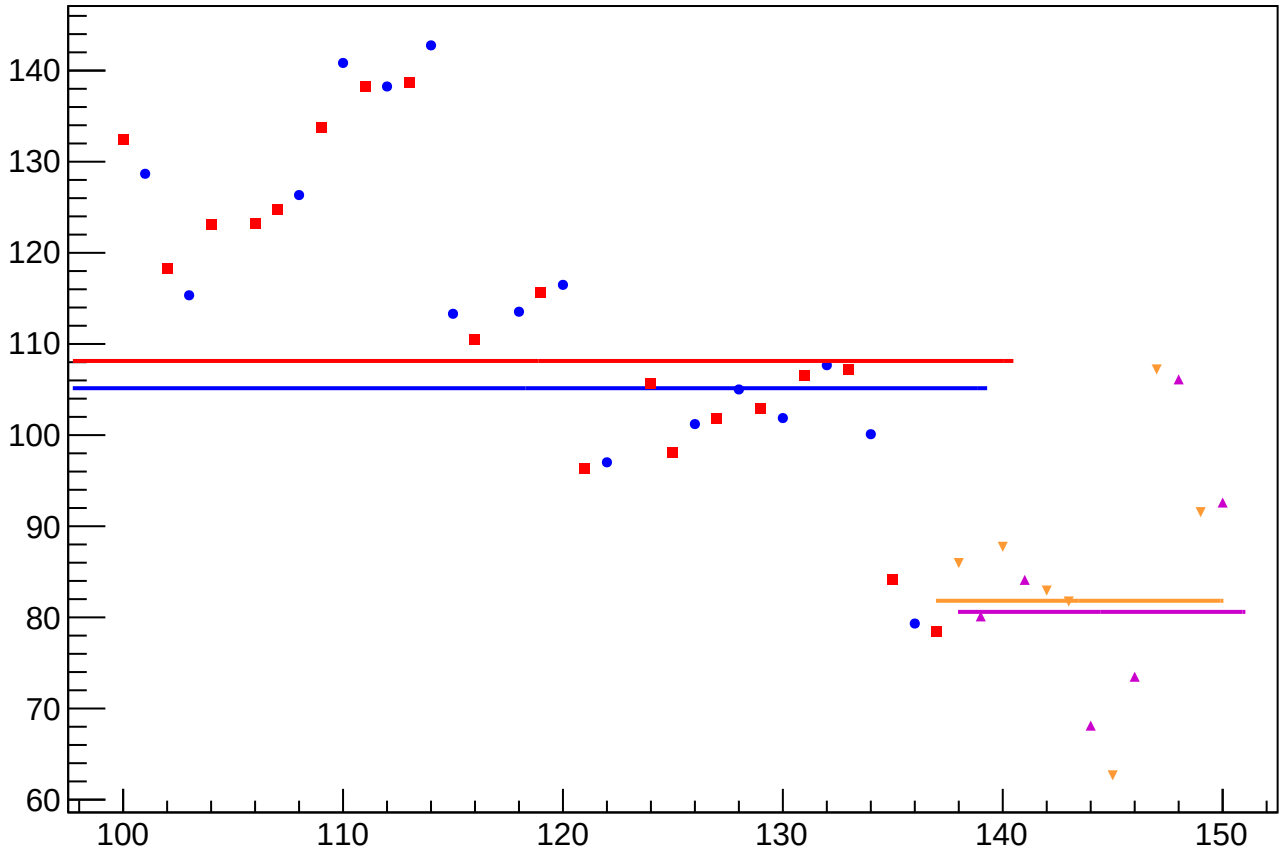
Left: 20.037+/-25.283 $\chi^2$/NDF: 19.0/12

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 80.883+/-26.517 $\chi^2$/NDF:17.5/21

Out: 17.844+/-26.742 $\chi^2$/NDF:29.1/25

All: 49.631+/-18.830 $\chi^2$/NDF: 49.4/47




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 81.822+/-0.025 $\chi^2$/NDF:273660.3/6

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 80.603+/-0.025 $\chi^2$/NDF:205409.2/5

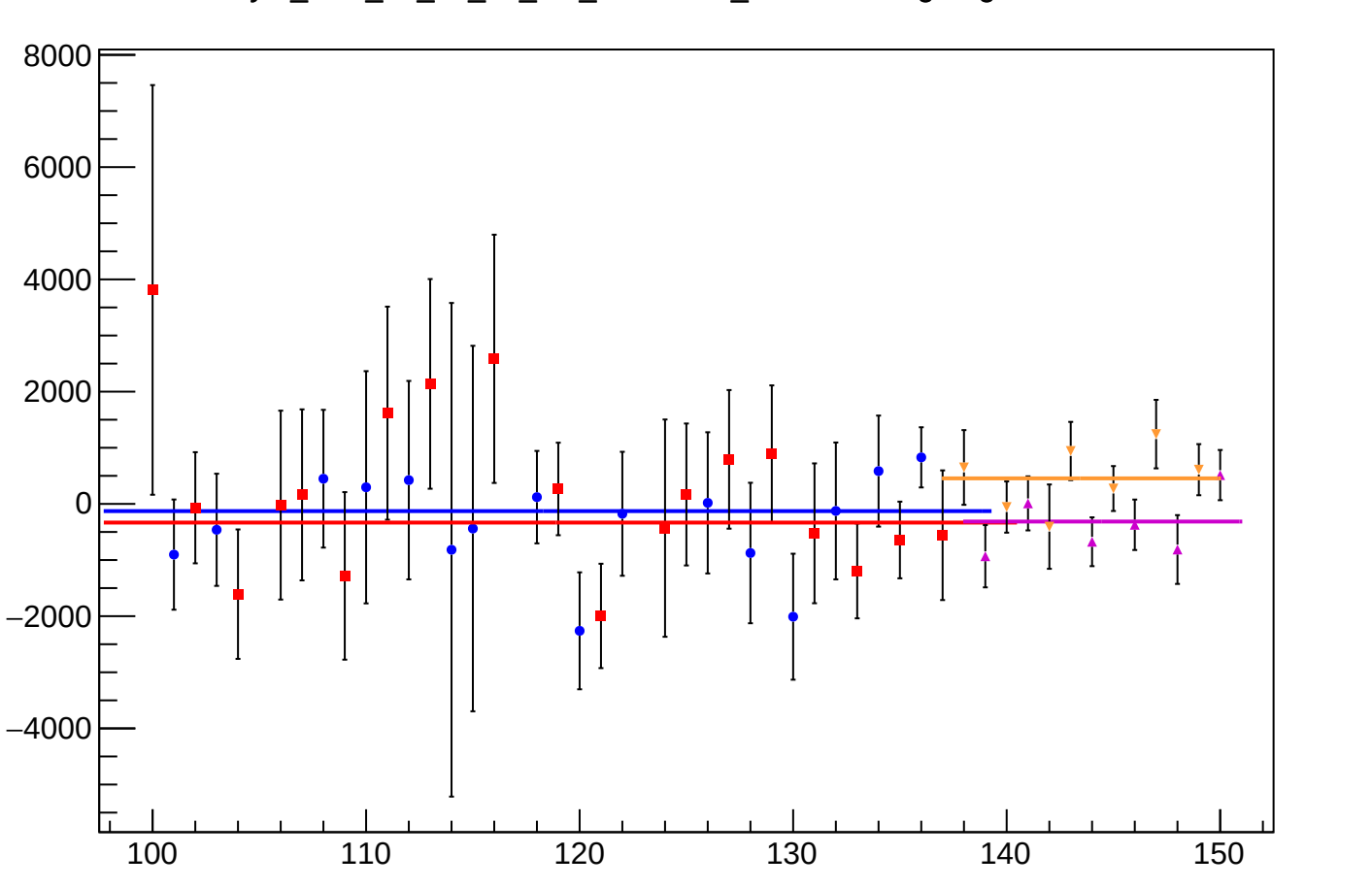
Left: 81.209+/-0.018 $\chi^2$/NDF: 480230.6/12

Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 91.560+/-0.019 $\chi^2$/NDF:1037229.5/21

Out: 93.512+/-0.019 $\chi^2$/NDF:1098097.2/25

All: 92.528+/-0.013 $\chi^2$/NDF: 2140700.7/47




Right In: -128.047+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 454.880+/-194.976 $\chi^2$/NDF:5.5/6

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -314.326+/-198.201 $\chi^2$/NDF:6.5/5

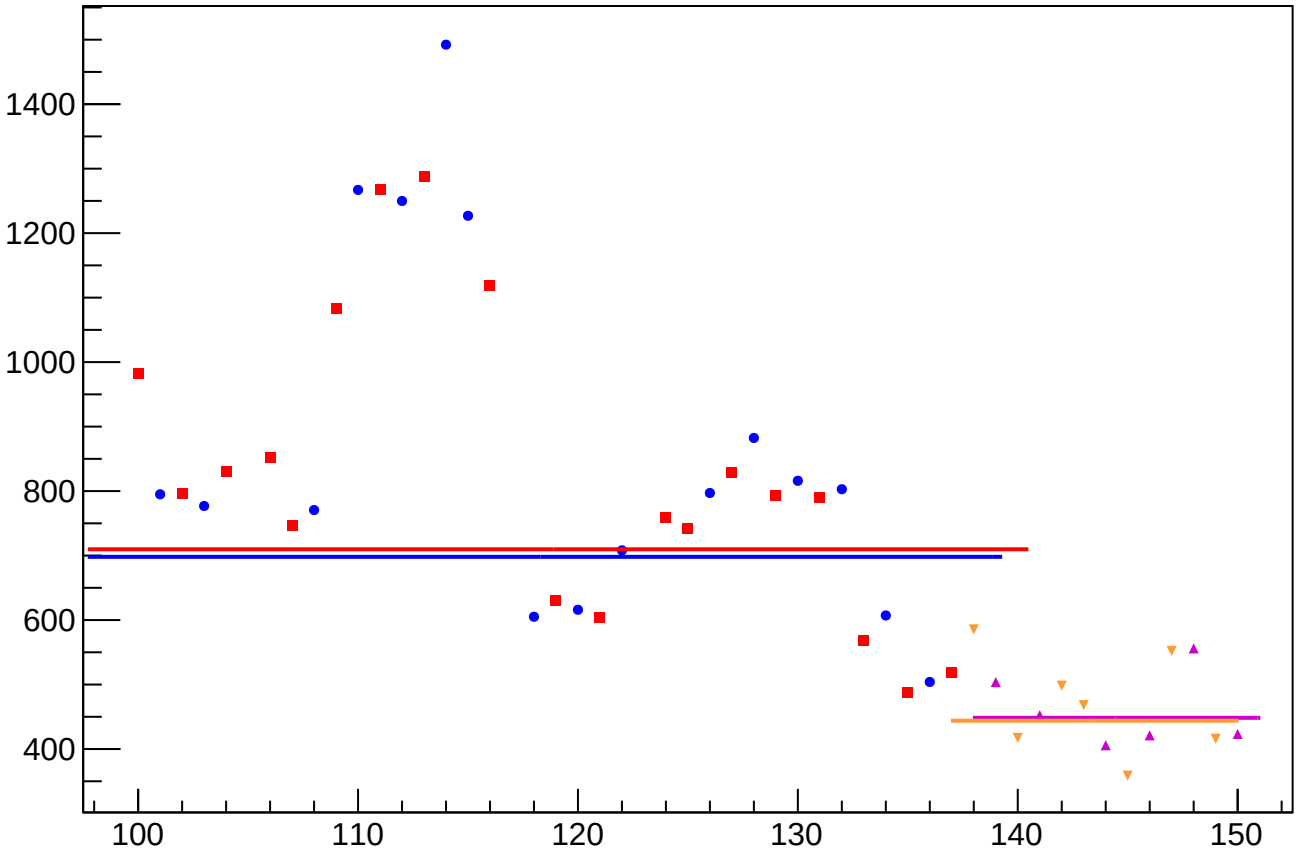
Left: 76.587+/-138.995 $\chi^2$/NDF: 19.7/12

Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -248.658+/-159.485 $\chi^2$/NDF:19.1/21

Out: 186.049+/-158.237 $\chi^2$/NDF:25.8/25

All: -29.597+/-112.329 $\chi^2$/NDF: 48.6/47




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912861.2/15

Left Out: 443.948+/-0.138 $\chi^2$/NDF:273103.0/6

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 448.421+/-0.140 $\chi^2$/NDF:114563.2/5

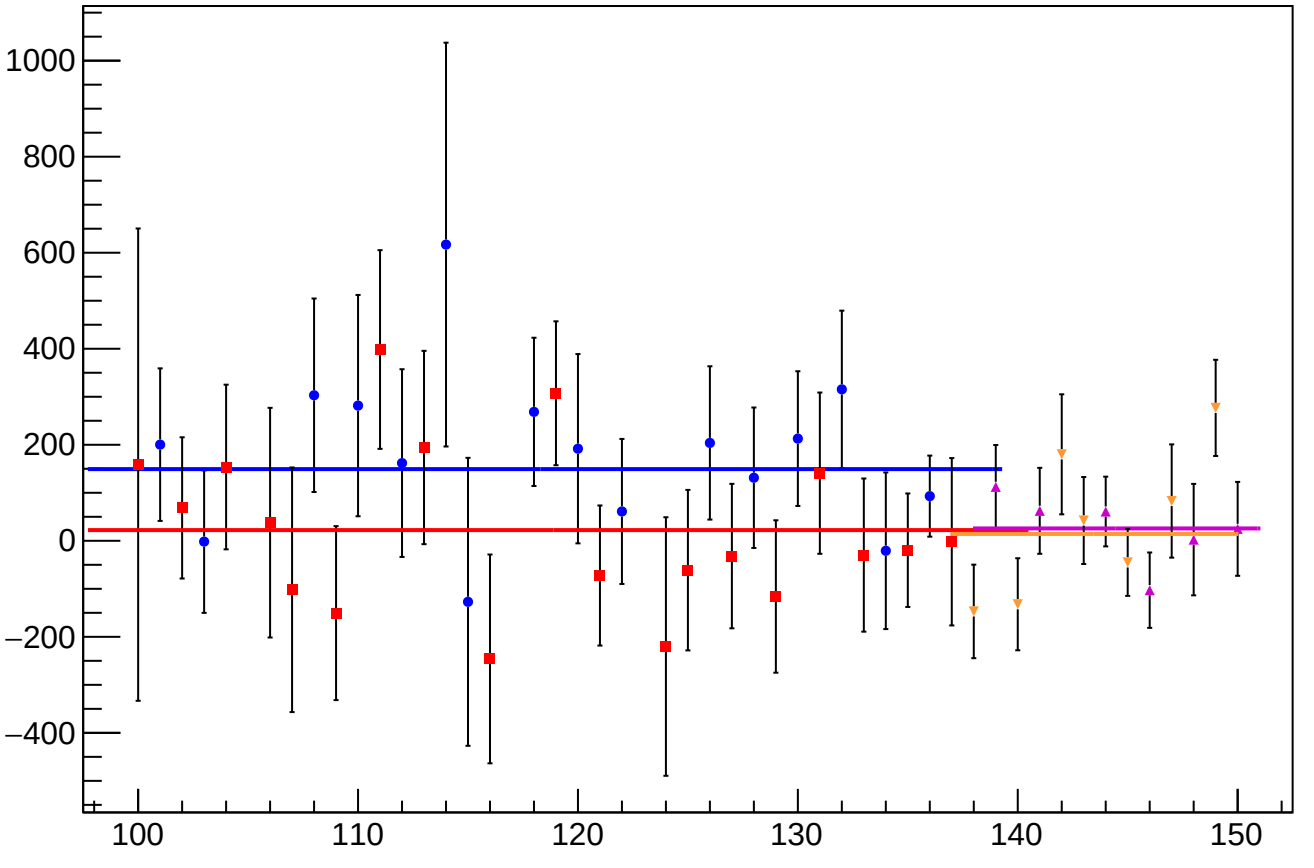
Left: 446.148+/-0.098 $\chi^2$/NDF: 388183.9/12

Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 536.423+/-0.113 $\chi^2$/NDF:2145863.4/21

Out: 534.680+/-0.112 $\chi^2$/NDF:2568987.9/25

All: 535.545+/-0.079 $\chi^2$/NDF: 4714971.7/47




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: 14.285+/-35.872 $\chi^2$/NDF:14.9/6

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 25.714+/-35.640 $\chi^2$/NDF:4.1/5

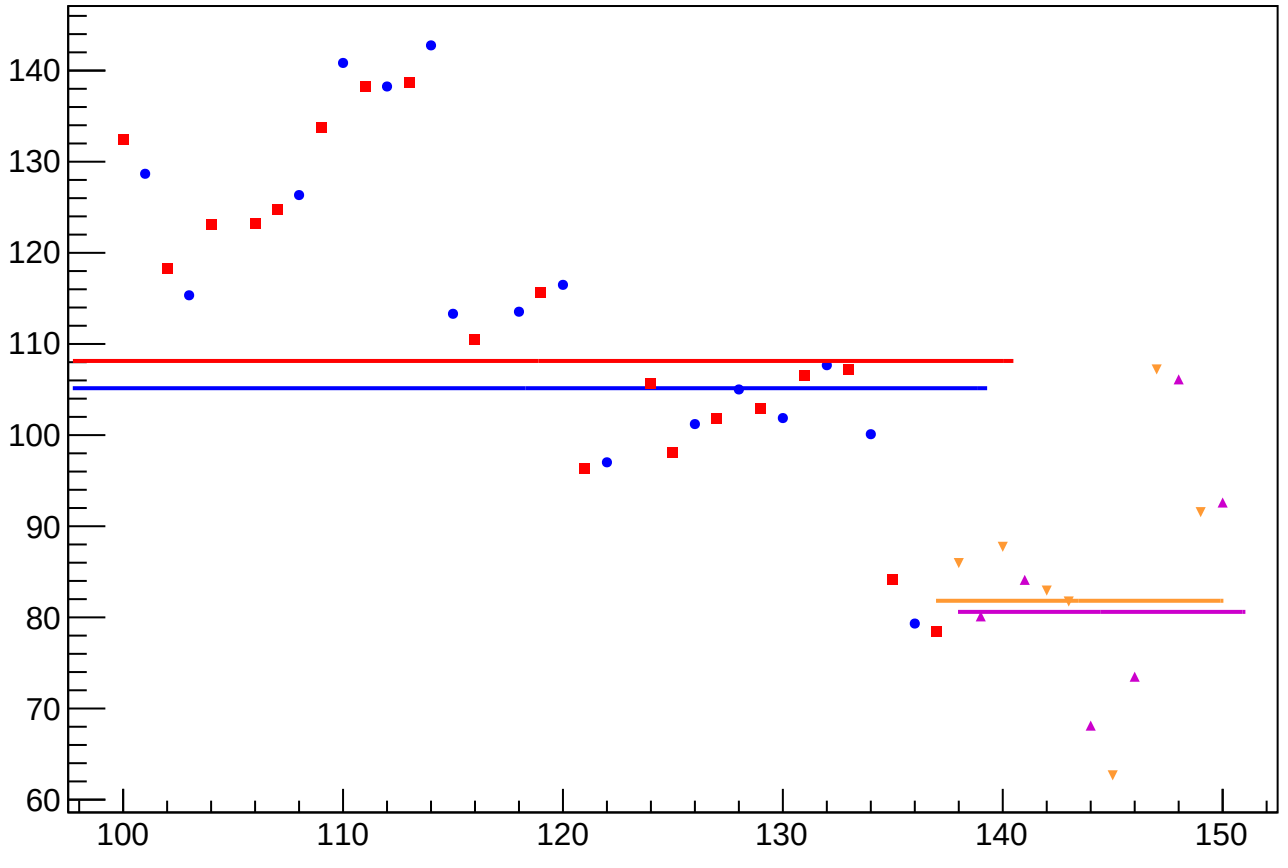
Left: 20.037+/-25.283 $\chi^2$/NDF: 19.0/12

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 80.883+/-26.517 $\chi^2$/NDF:17.5/21

Out: 17.844+/-26.742 $\chi^2$/NDF:29.1/25

All: 49.631+/-18.830 $\chi^2$/NDF: 49.4/47




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 81.822+/-0.025 $\chi^2$/NDF:273660.3/6

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 80.603+/-0.025 $\chi^2$/NDF:205409.2/5

Left: 81.209+/-0.018 $\chi^2$/NDF: 480230.6/12

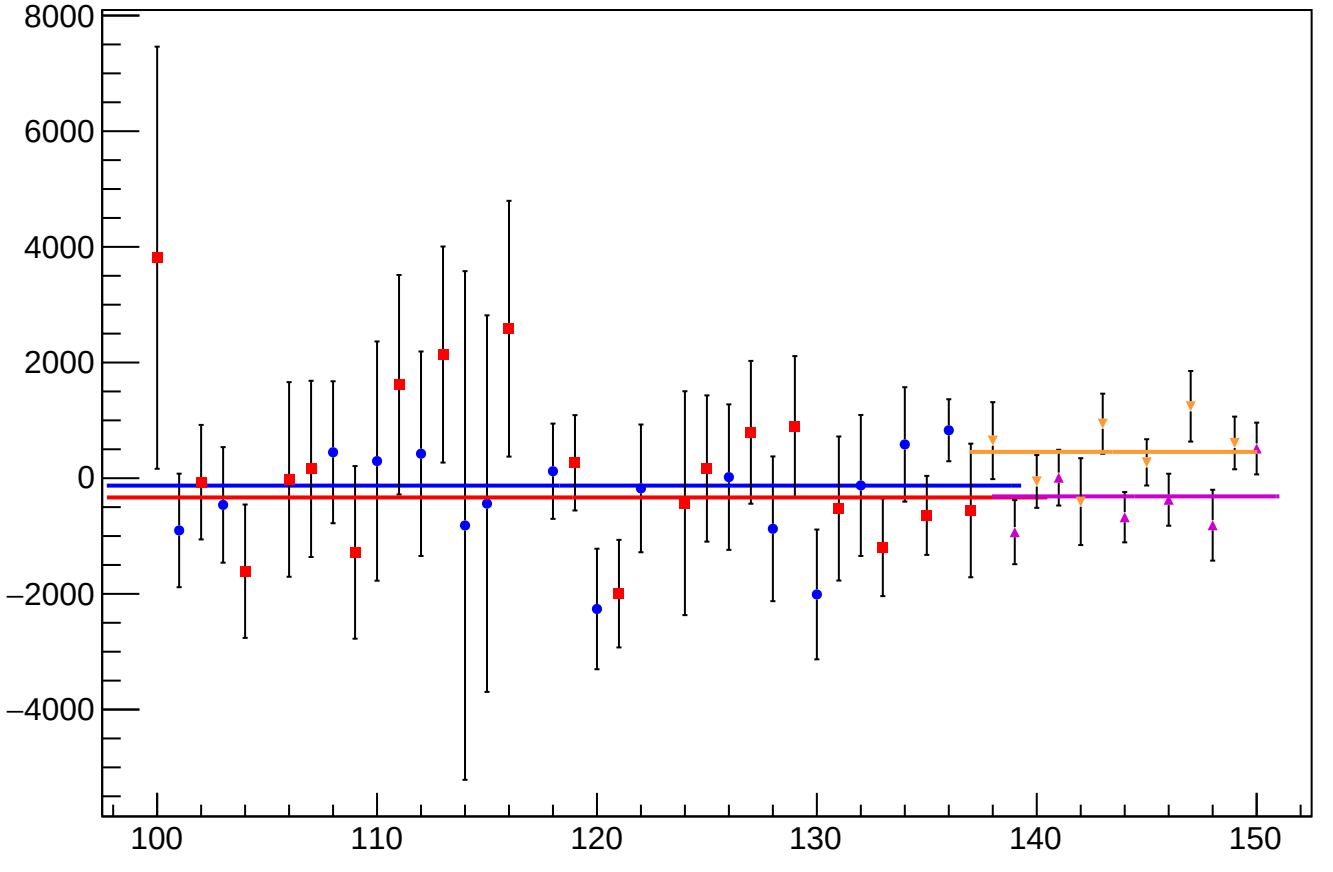
Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 91.560+/-0.019 $\chi^2$/NDF:1037229.5/21

Out: 93.512+/-0.019 $\chi^2$/NDF:1098097.2/25

All: 92.528+/-0.013 $\chi^2$/NDF: 2140700.7/47

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -128.047+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 454.880+/-194.976 $\chi^2$/NDF:5.5/6

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -314.326+/-198.201 $\chi^2$/NDF:6.5/5

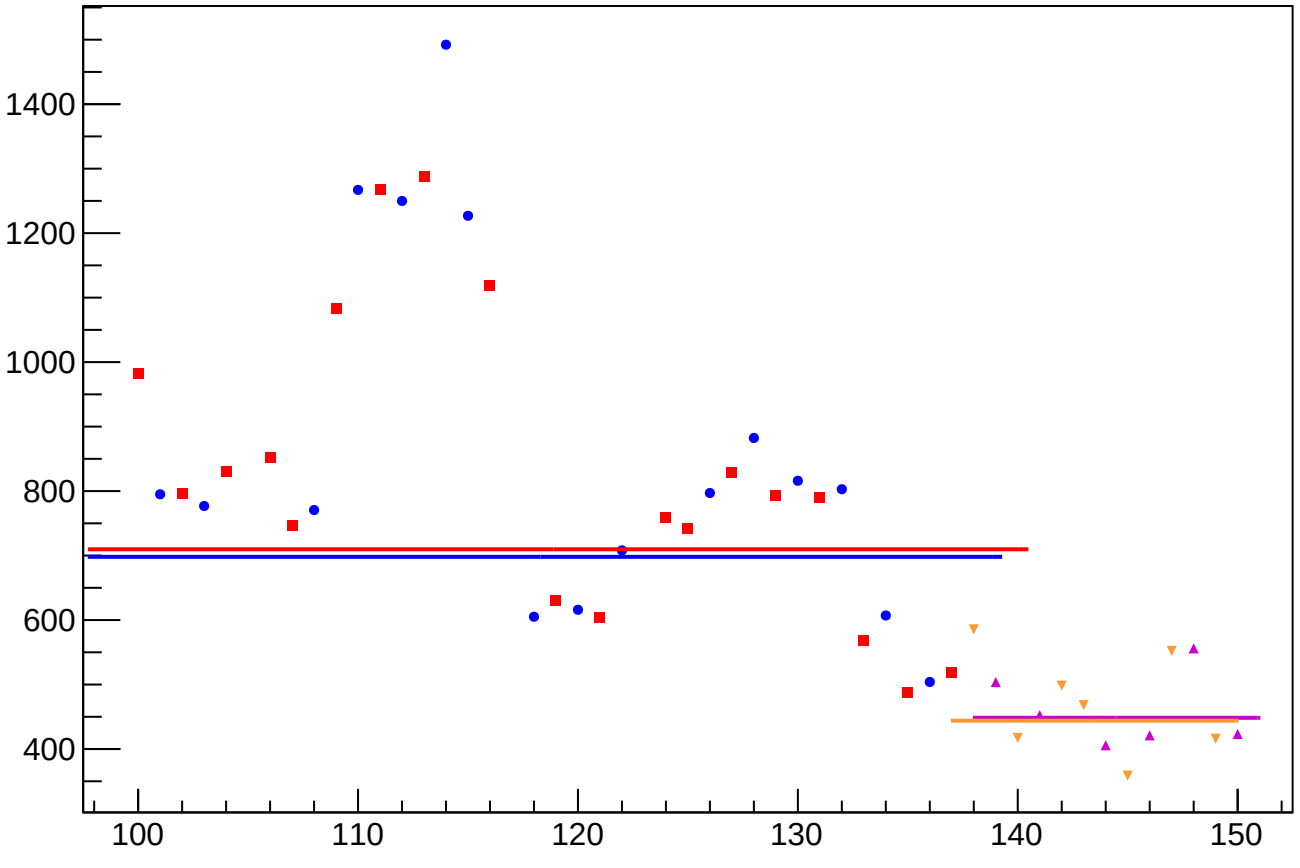
Left: 76.587+/-138.995 $\chi^2$/NDF: 19.7/12

Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -248.658+/-159.485 $\chi^2$/NDF:19.1/21

Out: 186.049+/-158.237 $\chi^2$/NDF:25.8/25

All: -29.597+/-112.329 $\chi^2$/NDF: 48.6/47




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912861.2/15

Left Out: 443.948+/-0.138 $\chi^2$/NDF:273103.0/6

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 448.421+/-0.140 $\chi^2$/NDF:114563.2/5

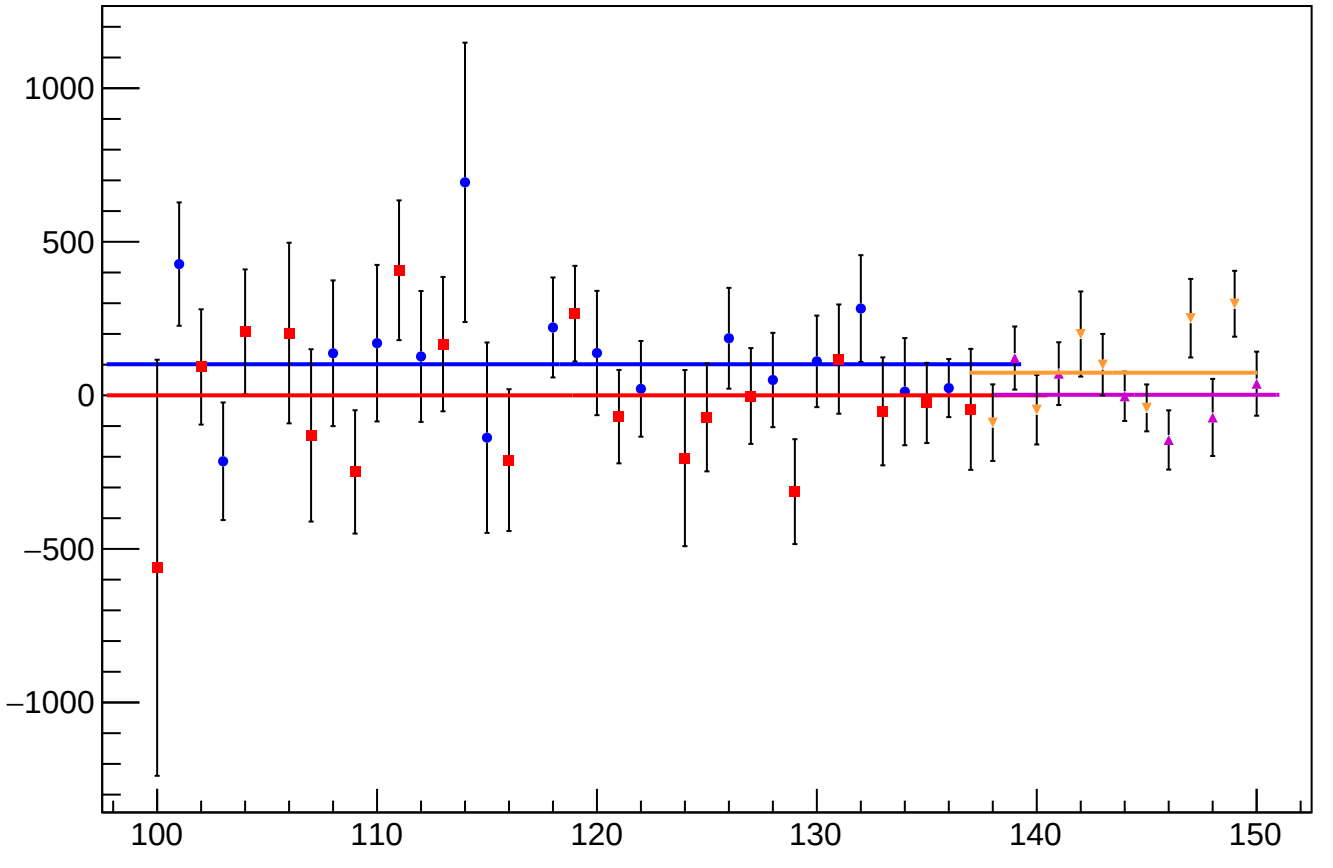
Left: 446.148+/-0.098 $\chi^2$/NDF: 388183.9/12

Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 536.423+/-0.113 $\chi^2$/NDF:2145863.4/21

Out: 534.680+/-0.112 $\chi^2$/NDF:2568987.9/25

All: 535.545+/-0.079 $\chi^2$/NDF: 4714971.7/47




Right In: 101.281+/-43.510 $\chi^2$/NDF: 11.0/15

Left Out: 73.811+/-40.368 $\chi^2$/NDF:12.3/6

Right Out: 0.125+/-44.035 $\chi^2$/NDF: 16.6/18

Left In: 1.835+/-40.539 $\chi^2$/NDF:4.6/5

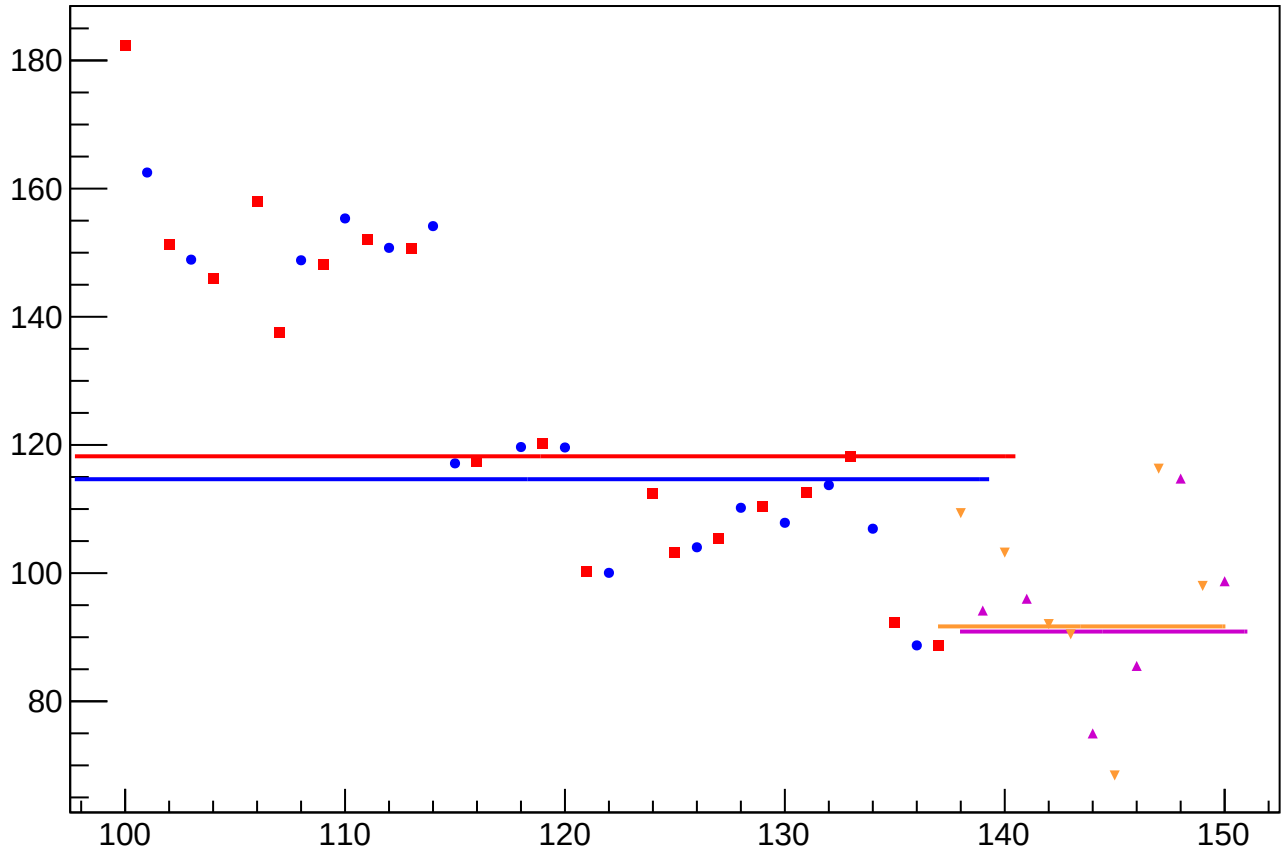
Left: 37.975+/-28.605 $\chi^2$/NDF: 18.5/12

Right: 51.310+/-30.950 $\chi^2$/NDF: 30.3/34

In: 48.047+/-29.660 $\chi^2$/NDF:18.4/21

Out: 40.163+/-29.757 $\chi^2$/NDF:30.4/25

All: 44.118+/-21.007 $\chi^2$/NDF: 48.9/47




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531976.2/15

Left Out: 91.685+/-0.029 $\chi^2$/NDF:327594.9/6

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483407.4/18

Left In: 90.881+/-0.029 $\chi^2$/NDF:175270.0/5

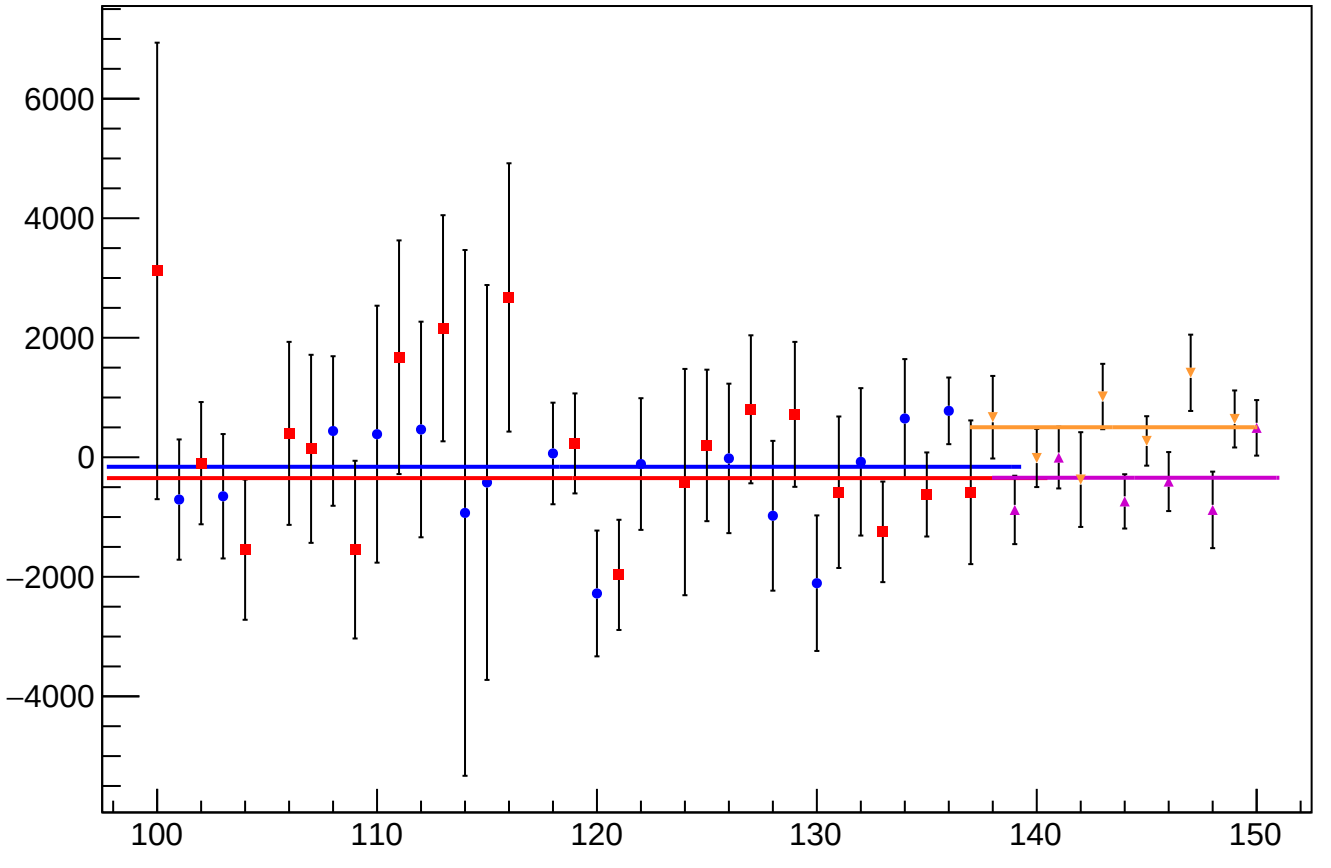
Left: 91.285+/-0.020 $\chi^2$/NDF: 503260.3/12

Right: 116.421+/-0.022 $\chi^2$/NDF: 1022057.2/34

In: 101.929+/-0.021 $\chi^2$/NDF:1026875.6/21

Out: 103.807+/-0.021 $\chi^2$/NDF:1205904.7/25

All: 102.865+/-0.015 $\chi^2$/NDF: 2236778.3/47




Right In: -159.110+/-274.558 $\chi^2$/NDF: 12.0/15

Left Out: 502.688+/-204.352 $\chi^2$/NDF:5.7/6

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -342.764+/-209.332 $\chi^2$/NDF:6.0/5

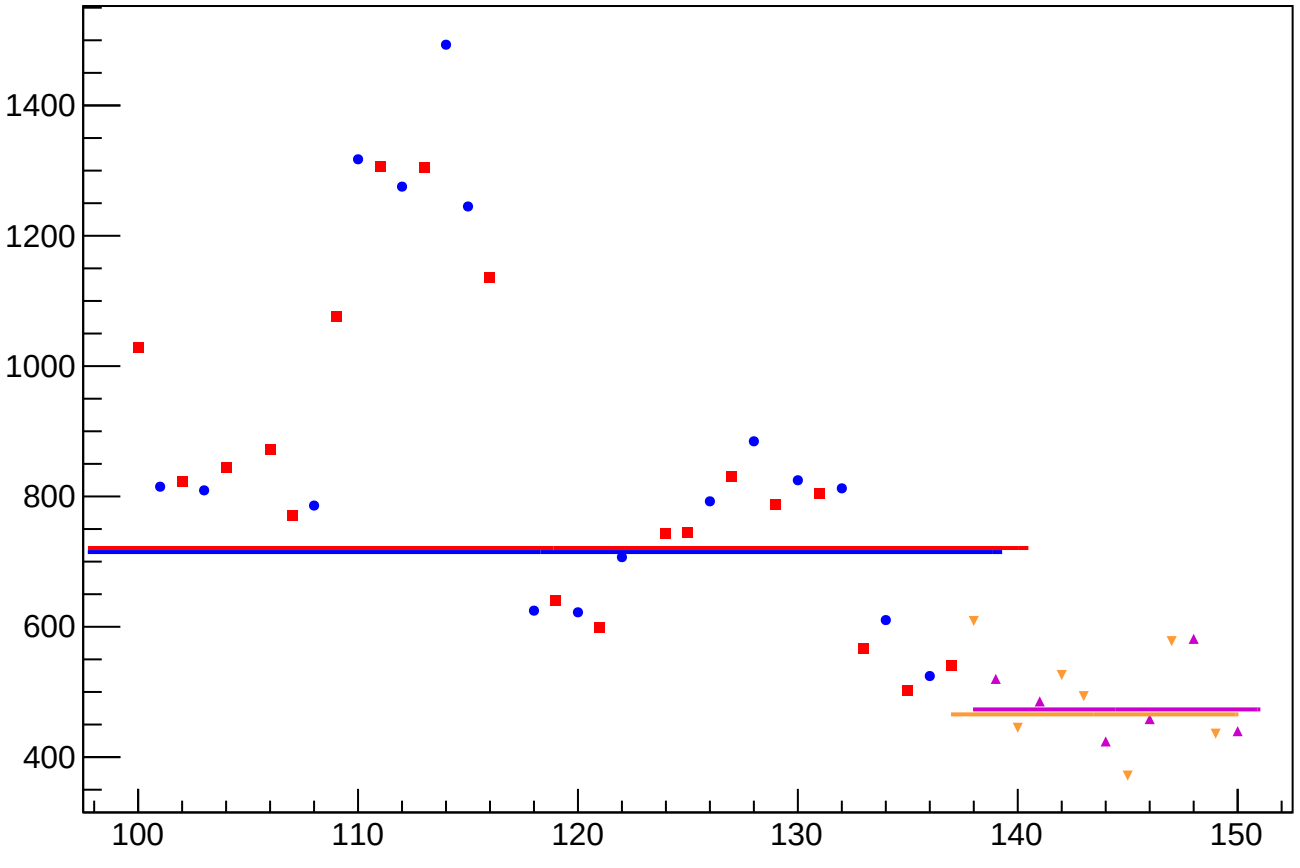
Left: 90.139+/-146.227 $\chi^2$/NDF: 20.1/12

Right: -254.152+/-193.800 $\chi^2$/NDF: 26.5/34

In: -275.251+/-166.467 $\chi^2$/NDF:18.3/21

Out: 197.867+/-163.724 $\chi^2$/NDF:26.2/25

All: -34.762+/-116.728 $\chi^2$/NDF: 48.6/47




Right In: 714.666+/-0.194 $\chi^2$/NDF: 876217.1/15

Left Out: 465.567+/-0.144 $\chi^2$/NDF:279183.1/6

Right Out: 720.885+/-0.193 $\chi^2$/NDF: 1018435.1/18

Left In: 473.200+/-0.148 $\chi^2$/NDF:107270.5/5

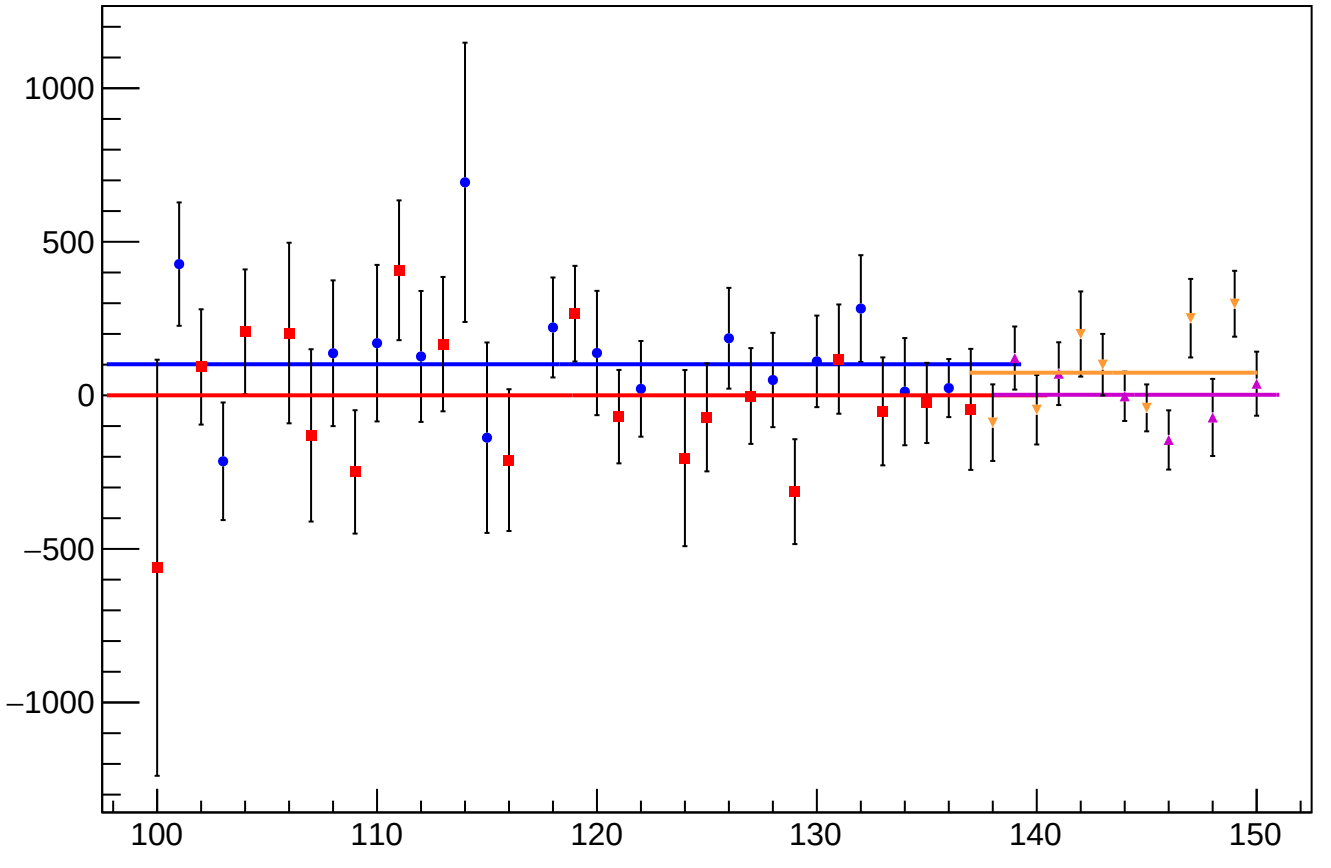
Left: 469.292+/-0.103 $\chi^2$/NDF: 387815.3/12

Right: 717.786+/-0.137 $\chi^2$/NDF: 1895167.0/34

In: 561.966+/-0.118 $\chi^2$/NDF:1961760.0/21

Out: 556.996+/-0.116 $\chi^2$/NDF:2415617.4/25

All: 559.440+/-0.083 $\chi^2$/NDF: 4378283.3/47




Right In: 101.278+/-43.510 $\chi^2$/NDF: 11.0/15

Left Out: 73.810+/-40.368 $\chi^2$/NDF:12.3/6

Right Out: 0.125+/-44.035 $\chi^2$/NDF: 16.6/18

Left In: 1.834+/-40.539 $\chi^2$/NDF:4.6/5

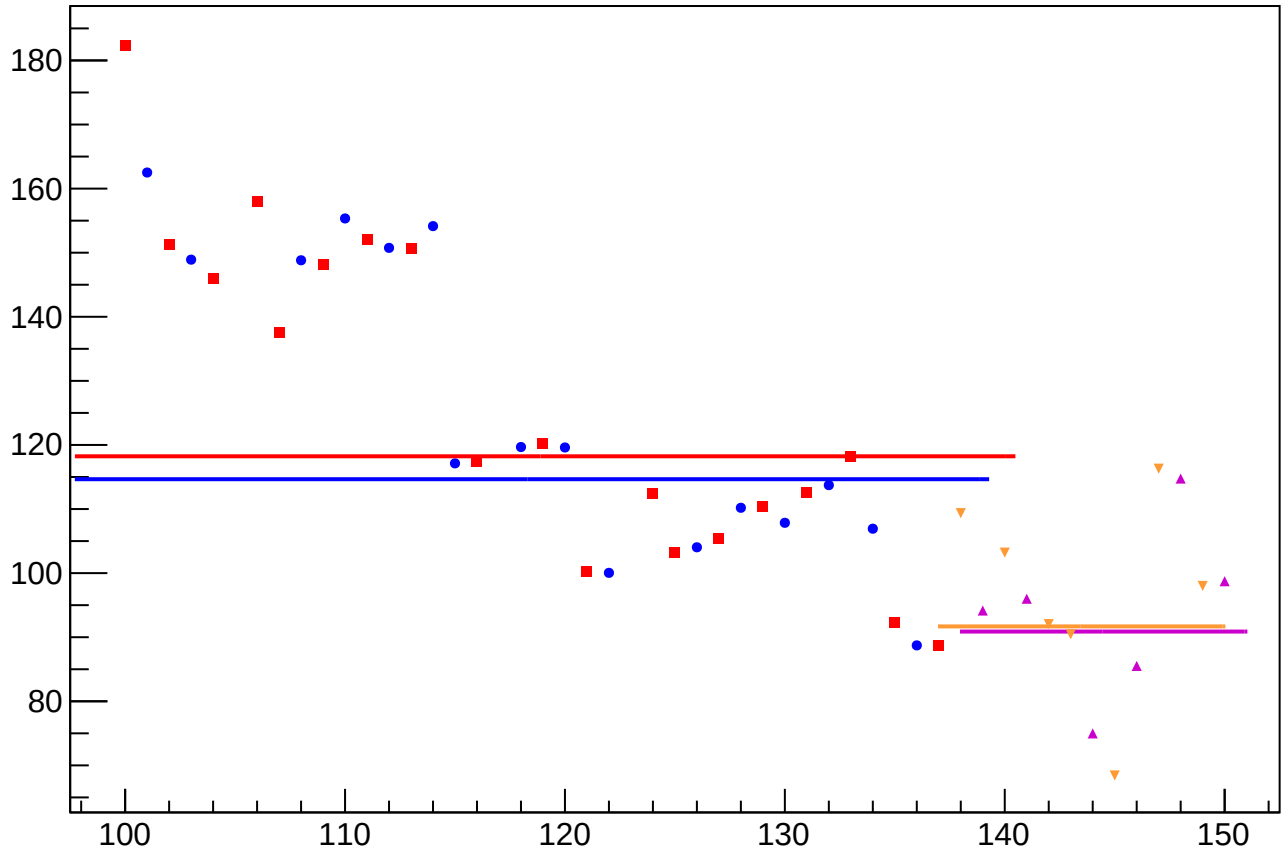
Left: 37.974+/-28.605 $\chi^2$/NDF: 18.5/12

Right: 51.308+/-30.950 $\chi^2$/NDF: 30.3/34

In: 48.046+/-29.660 $\chi^2$/NDF:18.4/21

Out: 40.162+/-29.757 $\chi^2$/NDF:30.4/25

All: 44.117+/-21.007 $\chi^2$/NDF: 48.9/47




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531962.9/15

Left Out: 91.686+/-0.029 $\chi^2$/NDF:327601.1/6

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483401.1/18

Left In: 90.881+/-0.029 $\chi^2$/NDF:175271.5/5

Left: 91.285+/-0.020 $\chi^2$/NDF: 503268.1/12

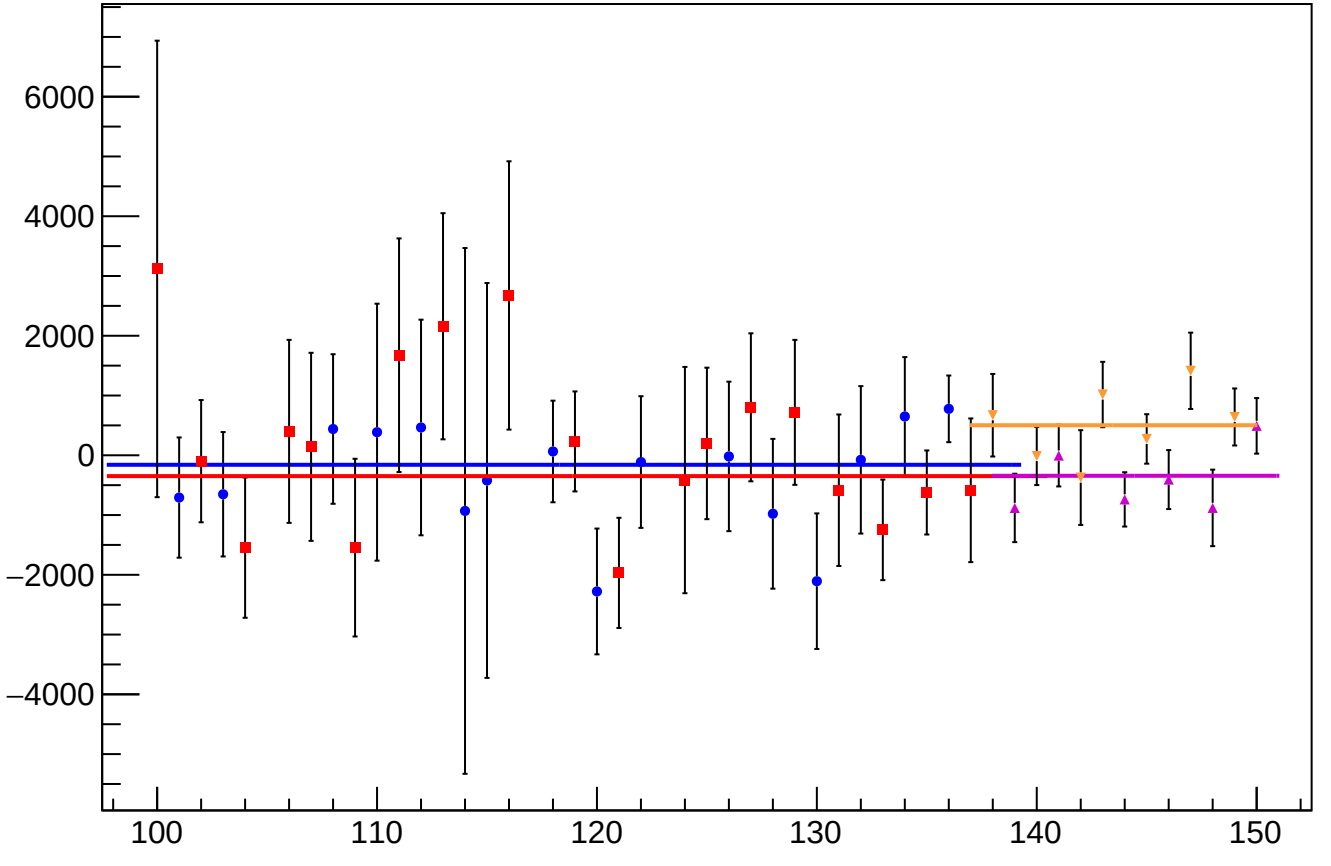
Right: 116.421+/-0.022 $\chi^2$/NDF: 1022036.9/34

In: 101.929+/-0.021 $\chi^2$/NDF:1026864.9/21

Out: 103.807+/-0.021 $\chi^2$/NDF:1205902.9/25

All: 102.865+/-0.015 $\chi^2$/NDF: 2236765.2/47

asym_sam_26_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -159.112+/-274.558 $\chi^2$/NDF: 12.0/15

Left Out: 502.688+/-204.352 $\chi^2$/NDF:5.7/6

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -342.764+/-209.332 $\chi^2$/NDF:6.0/5

Left: 90.138+/-146.227 $\chi^2$/NDF: 20.1/12

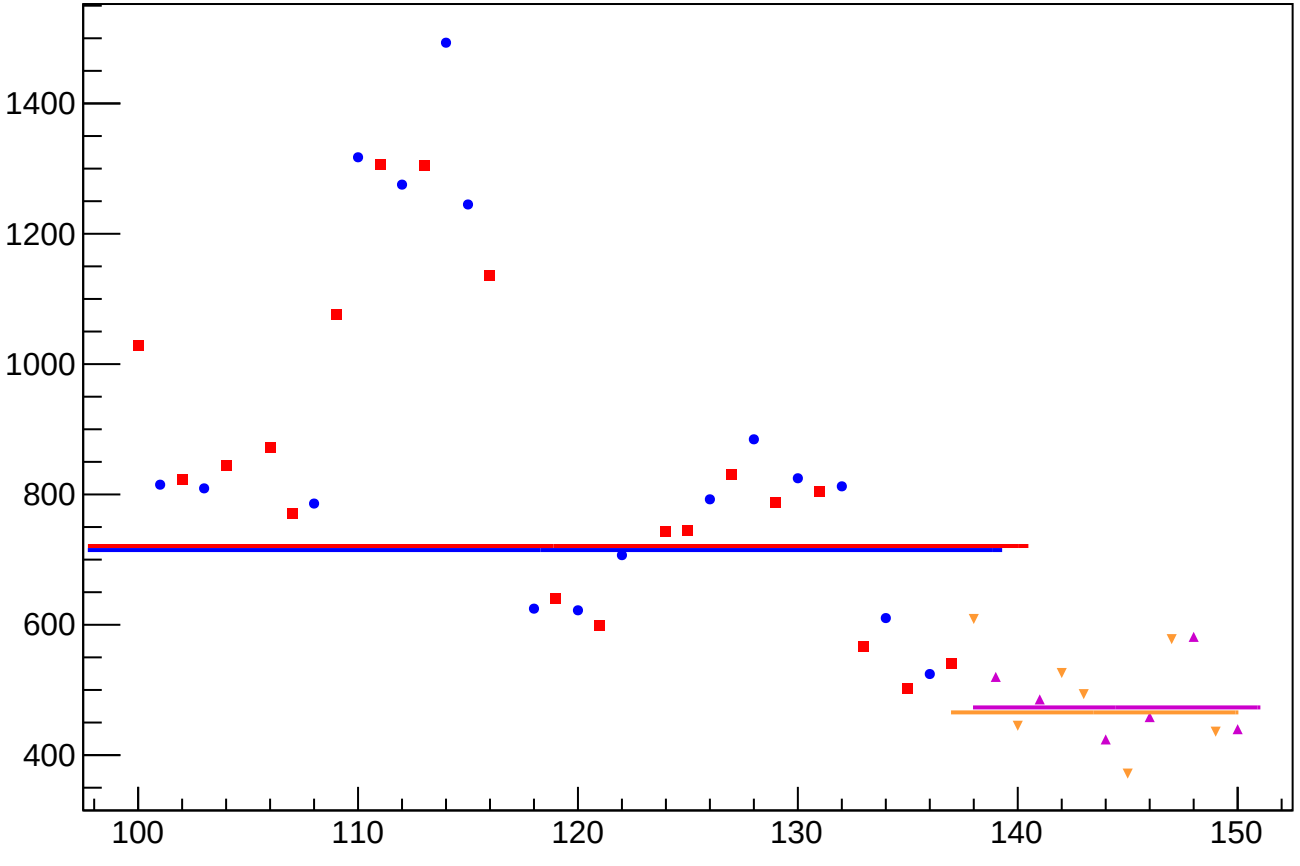
Right: -254.153+/-193.800 $\chi^2$/NDF: 26.5/34

In: -275.252+/-166.467 $\chi^2$/NDF:18.3/21

Out: 197.866+/-163.724 $\chi^2$/NDF:26.2/25

All: -34.763+/-116.728 $\chi^2$/NDF: 48.6/47

asym_sam_26_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 714.666+/-0.194 $\chi^2$/NDF: 876211.4/15

Left Out: 465.567+/-0.144 $\chi^2$/NDF:279187.1/6

Right Out: 720.884+/-0.193 $\chi^2$/NDF: 1018428.9/18

Left In: 473.201+/-0.148 $\chi^2$/NDF:107271.4/5

Left: 469.292+/-0.103 $\chi^2$/NDF: 387820.3/12

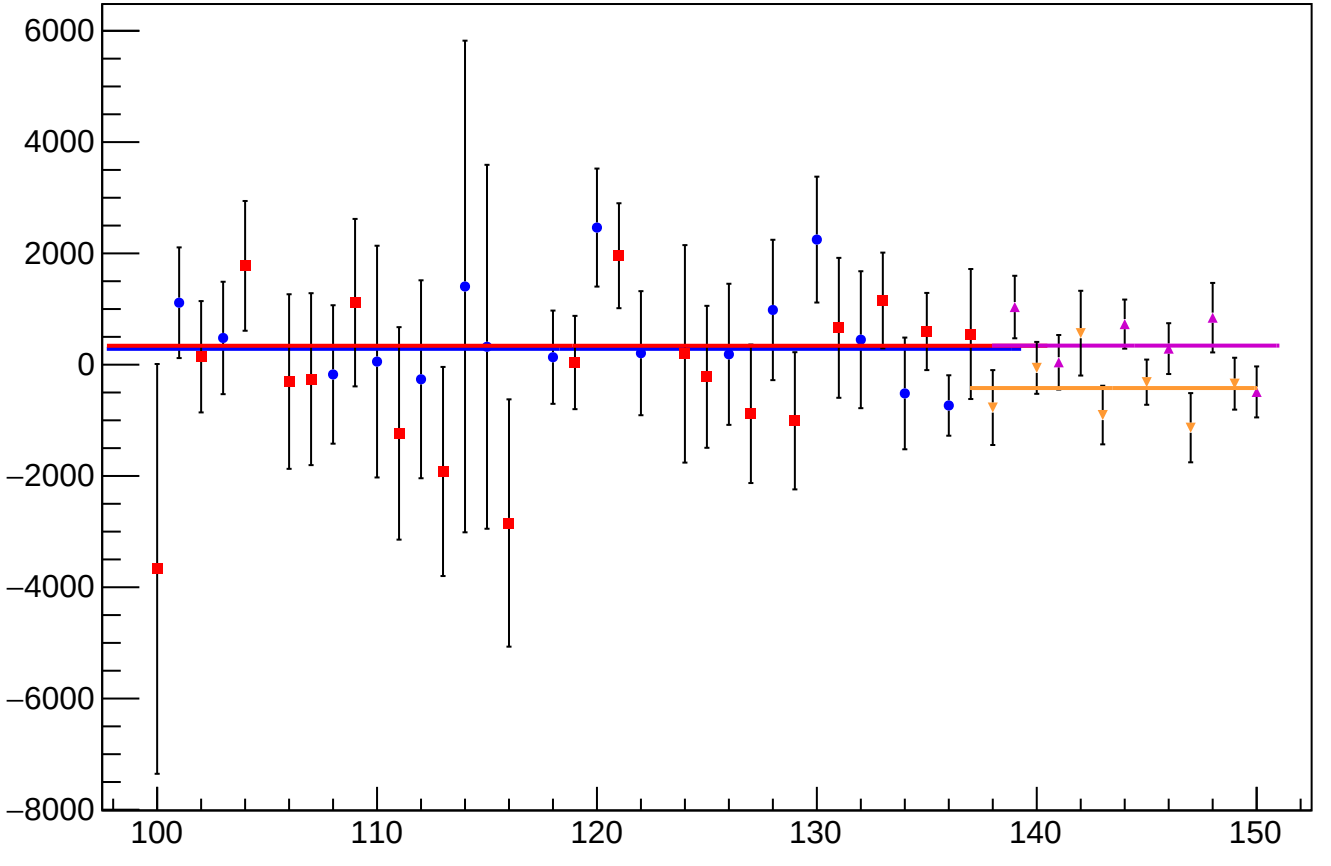
Right: 717.786+/-0.137 $\chi^2$/NDF: 1895155.0/34

In: 561.966+/-0.118 $\chi^2$/NDF:1961750.8/21

Out: 556.997+/-0.116 $\chi^2$/NDF:2415611.5/25

All: 559.440+/-0.083 $\chi^2$/NDF: 4378268.2/47

# asym_sam_26_48_dd_mean vs Slug, Sign Corrected




Right In: 284.780+/-271.944 $\chi^2$/NDF: 12.8/15

Left Out: -419.889+/-198.507 $\chi^2$/NDF:4.8/6

Right Out: 340.018+/-273.601 $\chi^2$/NDF: 14.1/18

Left In: 342.714+/-201.638 $\chi^2$/NDF:6.6/5

Left: -44.553+/-141.460 $\chi^2$/NDF: 18.7/12

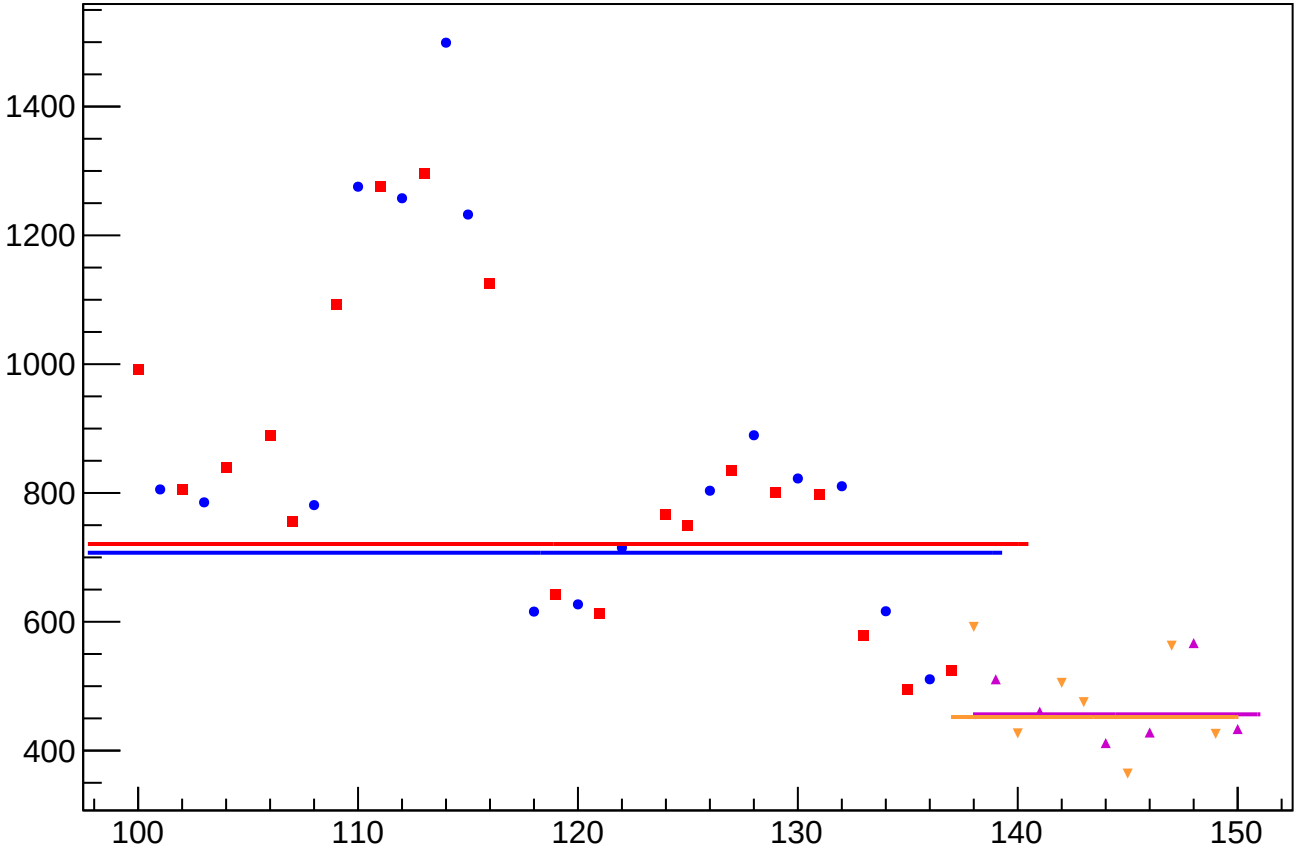
Right: 312.231+/-192.877 $\chi^2$/NDF: 26.9/34

In: 322.162+/-161.971 $\chi^2$/NDF:19.4/21

Out: -157.825+/-160.673 $\chi^2$/NDF:23.9/25

All: 80.237+/-114.069 $\chi^2$/NDF: 47.8/47

# asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 707.209+/-0.192 $\chi^2$/NDF: 896689.9/15

Left Out: 452.134+/-0.140 $\chi^2$/NDF:269198.5/6

Right Out: 720.778+/-0.193 $\chi^2$/NDF: 1015277.9/18

Left In: 456.303+/-0.143 $\chi^2$/NDF:114704.3/5

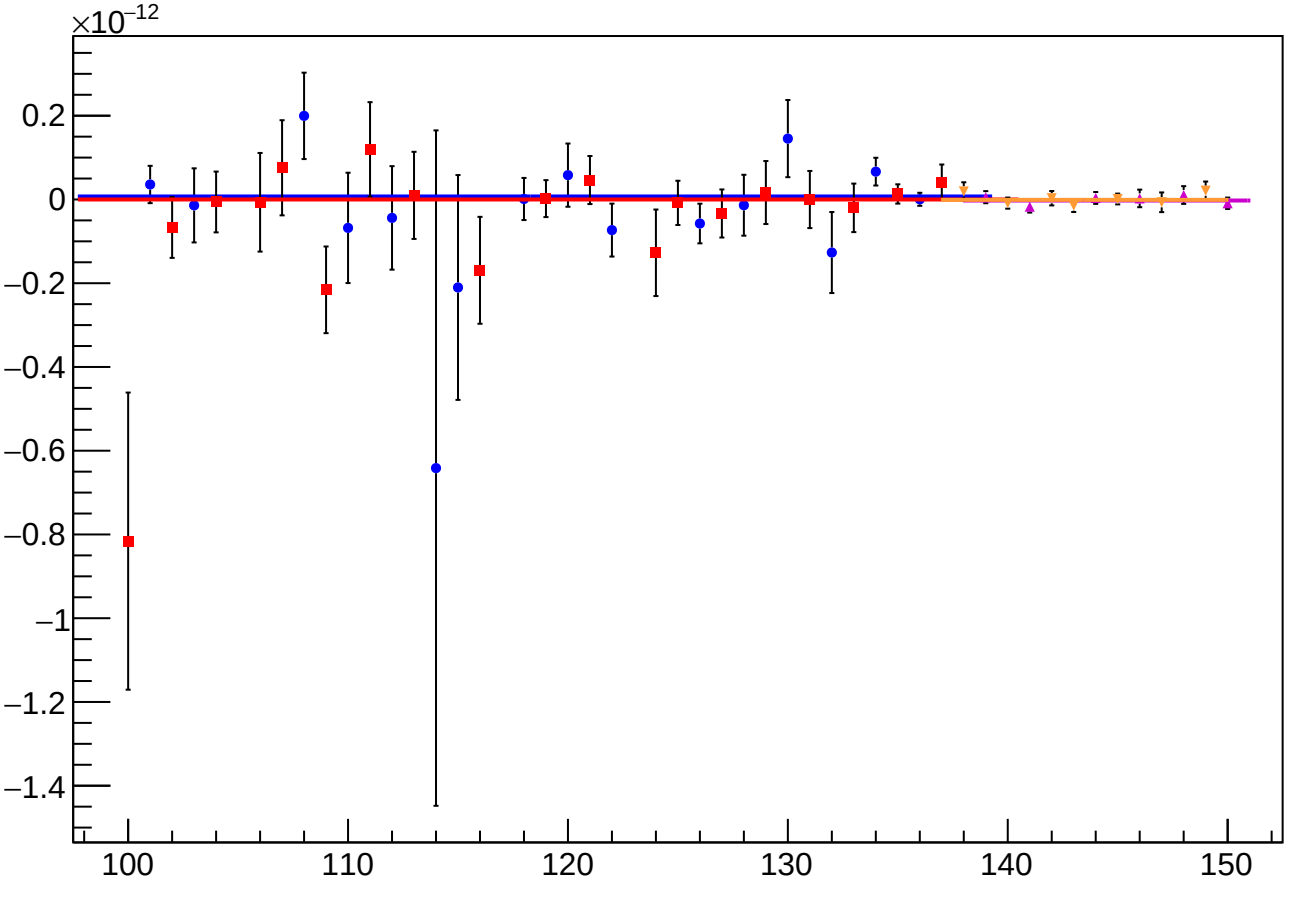
Left: 454.186+/-0.100 $\chi^2$/NDF: 384336.9/12

Right: 713.952+/-0.136 $\chi^2$/NDF: 1914442.0/34

In: 545.311+/-0.115 $\chi^2$/NDF:2109957.6/21

Out: 544.780+/-0.114 $\chi^2$/NDF:2547691.3/25

All: 545.043+/-0.081 $\chi^2$/NDF: 4657659.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.3/5

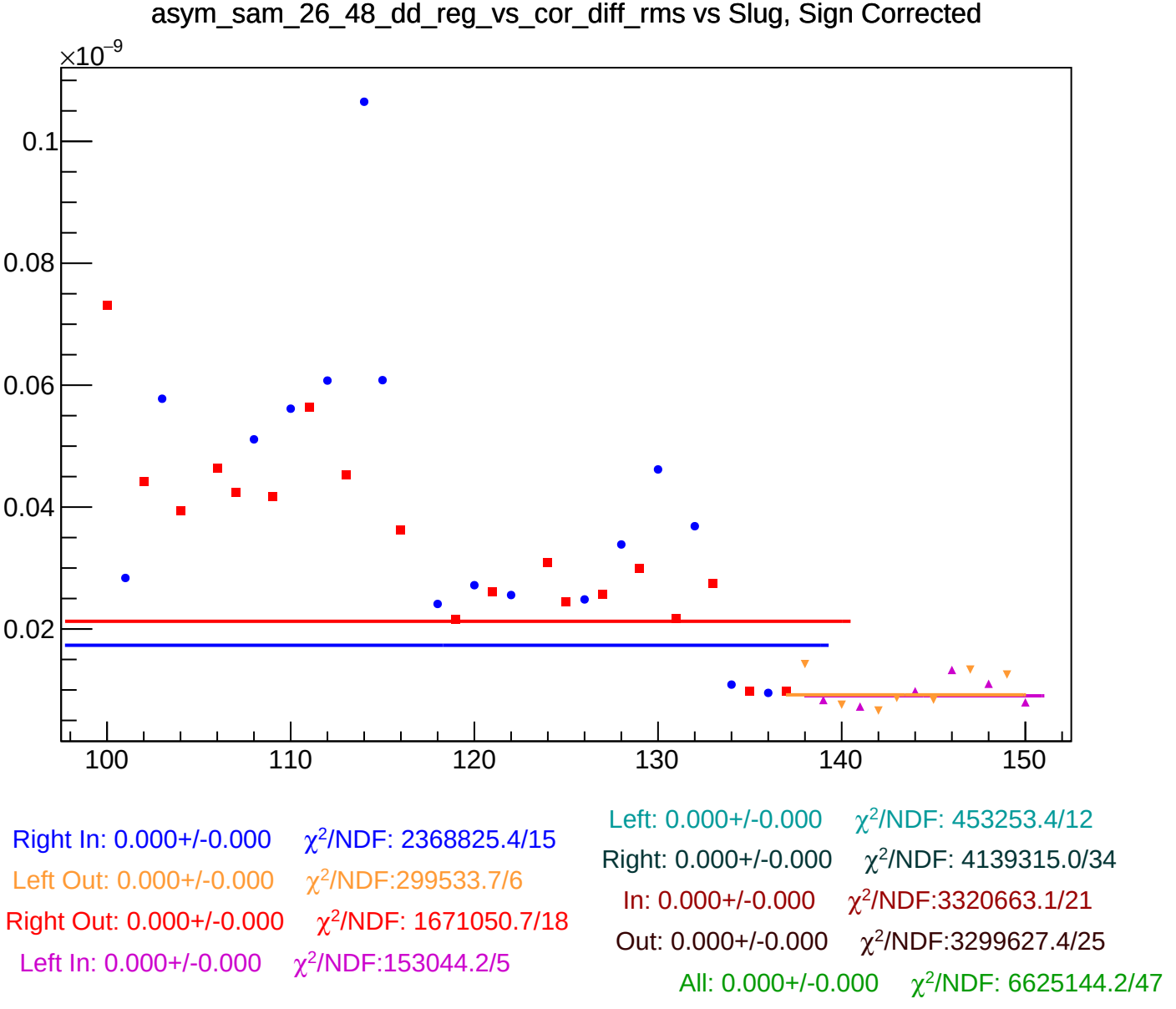
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.4/12

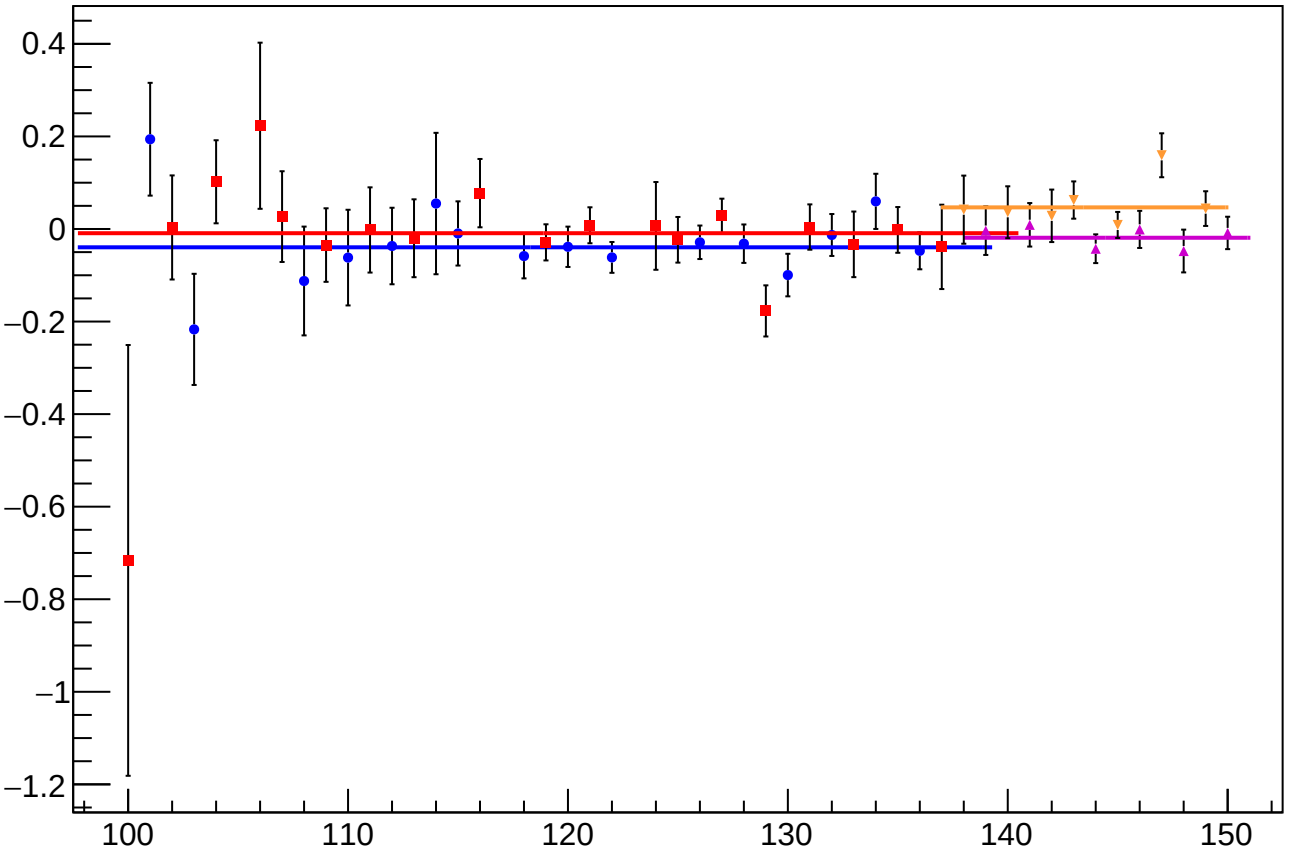
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 41.1/47


asym_sam_26_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2368825.4/15
Left Out: 0.000+/-0.000 χ²/NDF:299533.7/6
Right Out: 0.000+/-0.000 χ²/NDF: 1671050.7/18
Left In: 0.000+/-0.000 χ²/NDF:153044.2/5
Left: 0.000+/-0.000 χ²/NDF: 453253.4/12
Right: 0.000+/-0.000 χ²/NDF: 4139315.0/34
In: 0.000+/-0.000 χ²/NDF:3320663.1/21
Out: 0.000+/-0.000 χ²/NDF:3299627.4/25
All: 0.000+/-0.000 χ²/NDF: 6625144.2/47




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.047+/-0.016 $\chi^2$/NDF:7.7/6

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.019+/-0.016 $\chi^2$/NDF:1.7/5

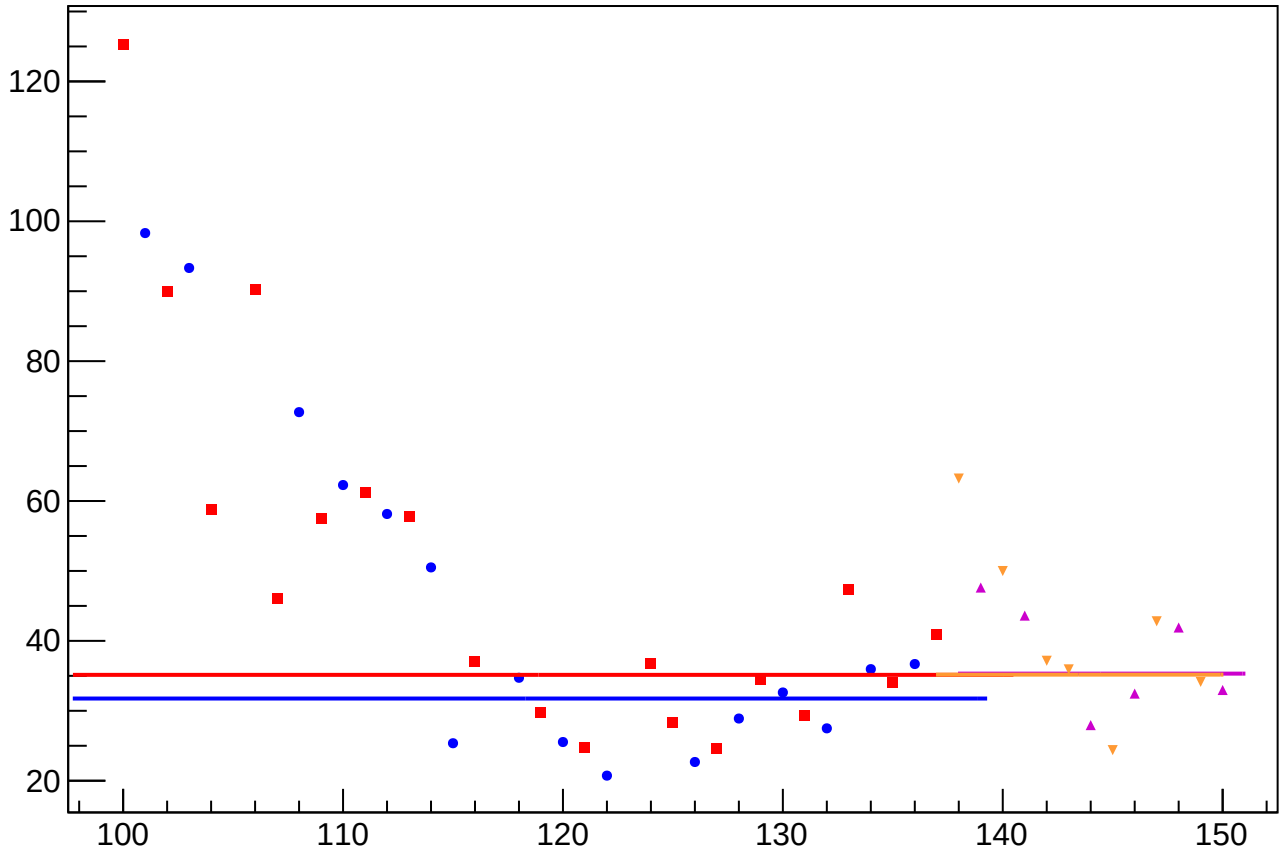
Left: 0.014+/-0.011 $\chi^2$/NDF: 17.6/12

Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.031+/-0.010 $\chi^2$/NDF:15.1/21

Out: 0.015+/-0.011 $\chi^2$/NDF:32.8/25

All: -0.009+/-0.007 $\chi^2$/NDF: 57.9/47




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 35.172+/-0.011 $\chi^2$/NDF:780486.5/6

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 35.316+/-0.012 $\chi^2$/NDF:344287.6/5

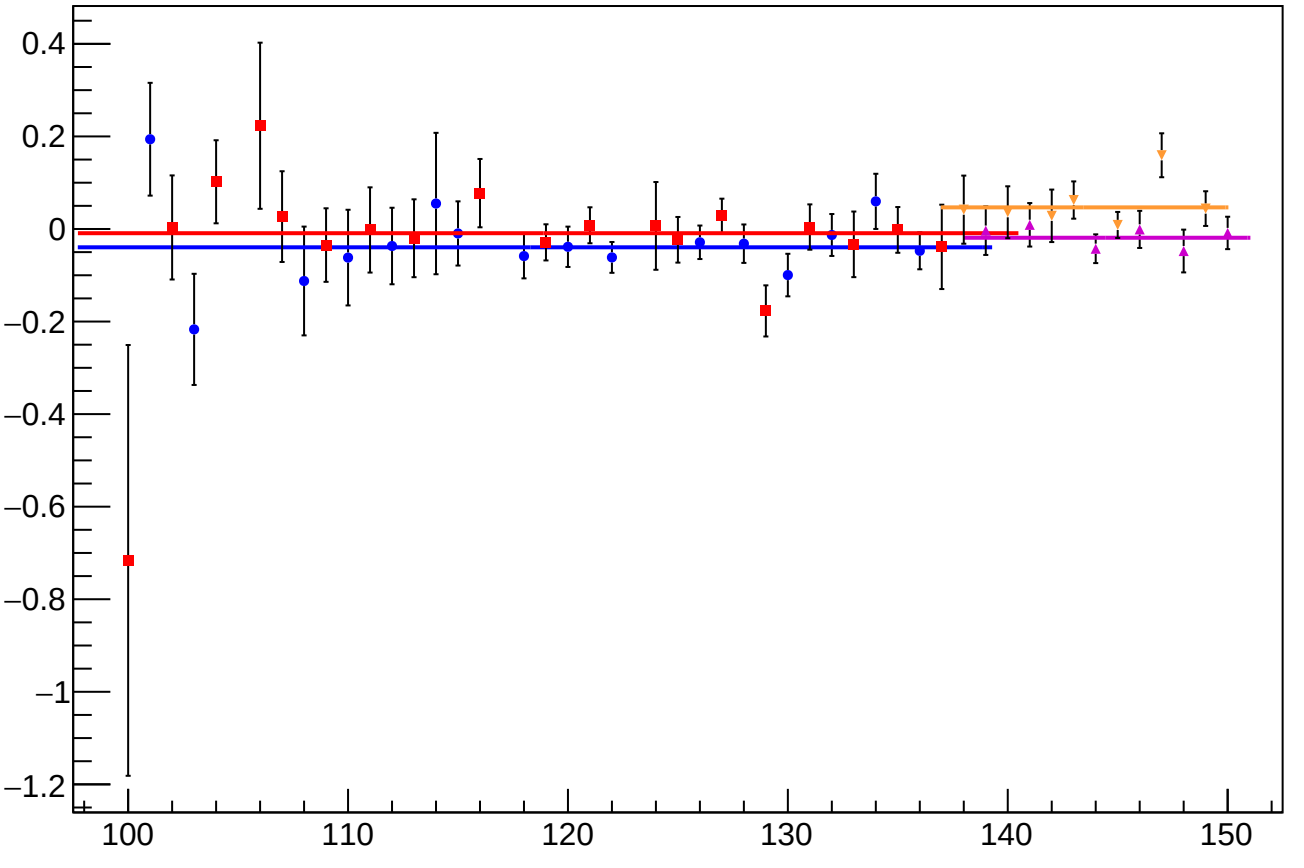
Left: 35.243+/-0.008 $\chi^2$/NDF: 1124853.0/12

Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

In: 33.159+/-0.007 $\chi^2$/NDF:2654394.9/21

Out: 35.154+/-0.008 $\chi^2$/NDF:2625167.3/25

All: 34.119+/-0.005 $\chi^2$/NDF: 5316025.8/47




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.047+/-0.016 $\chi^2$/NDF:7.7/6

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.019+/-0.016 $\chi^2$/NDF:1.7/5

Left: 0.014+/-0.011 $\chi^2$/NDF: 17.6/12

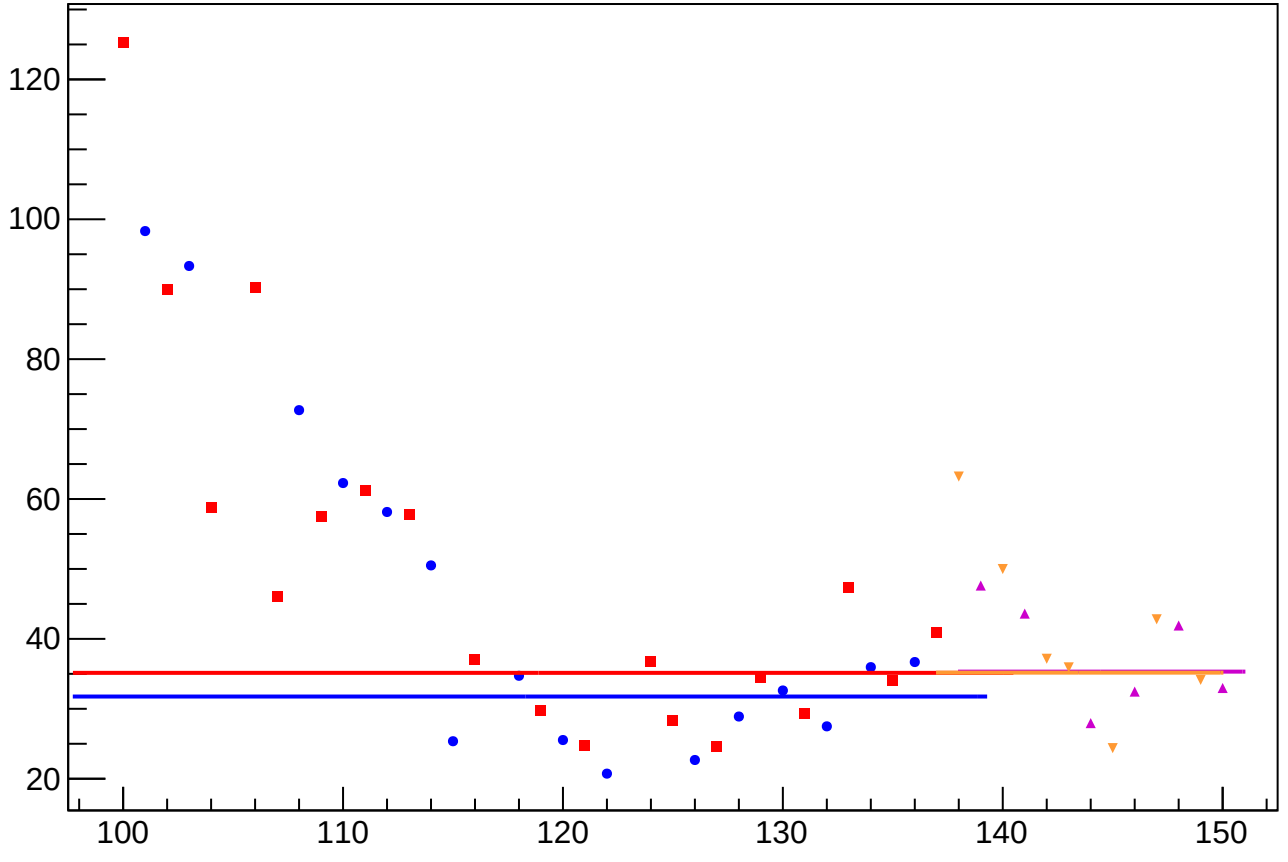
Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.031+/-0.010 $\chi^2$/NDF:15.1/21

Out: 0.015+/-0.011 $\chi^2$/NDF:32.8/25

All: -0.009+/-0.007 $\chi^2$/NDF: 57.9/47

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 35.172+/-0.011 $\chi^2$/NDF:780486.5/6

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 35.316+/-0.012 $\chi^2$/NDF:344287.6/5

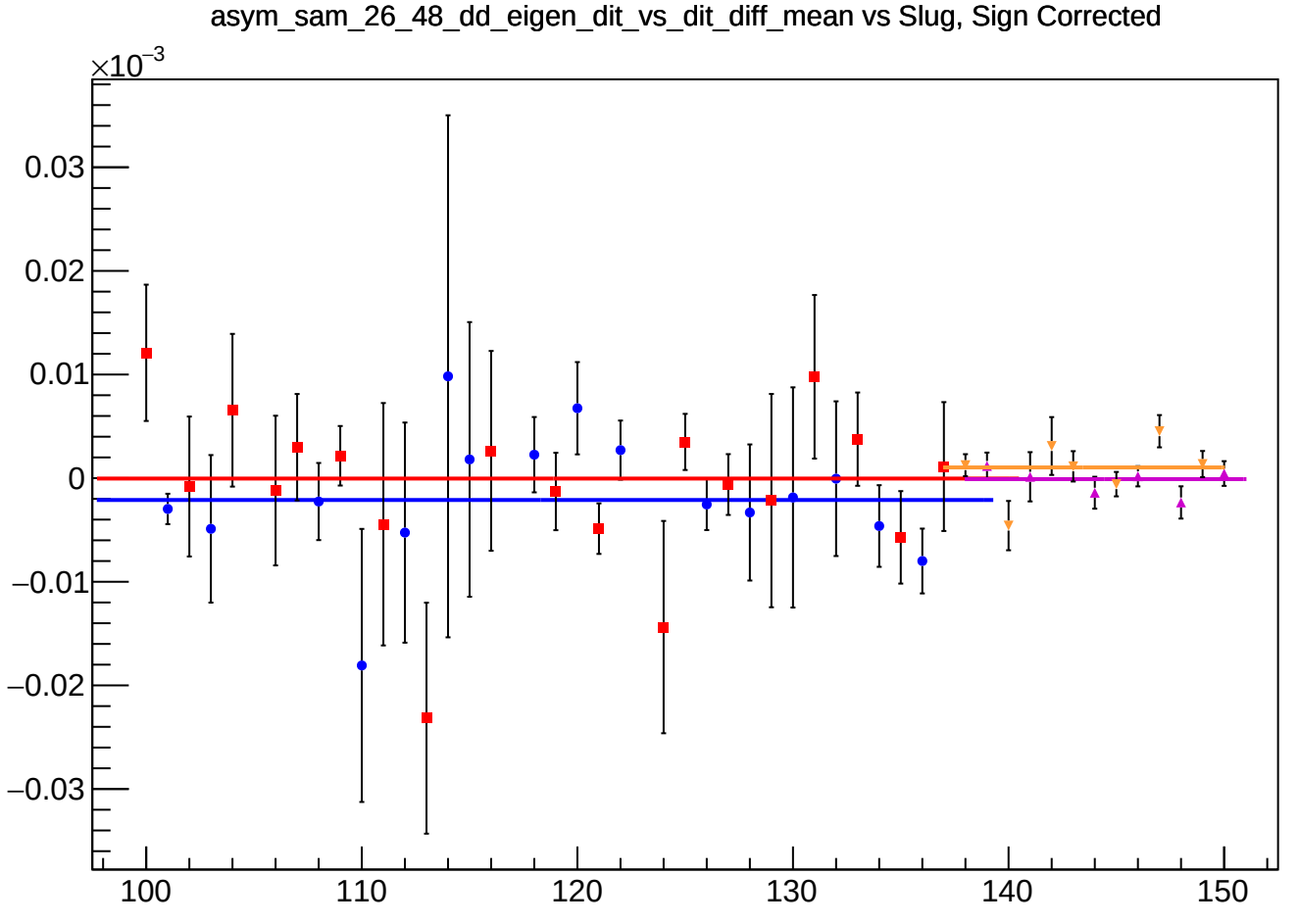
Left: 35.243+/-0.008 $\chi^2$/NDF: 1124853.0/12

Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

In: 33.159+/-0.007 $\chi^2$/NDF:2654394.9/21

Out: 35.154+/-0.008 $\chi^2$/NDF:2625167.3/25

All: 34.119+/-0.005 $\chi^2$/NDF: 5316025.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.1/5

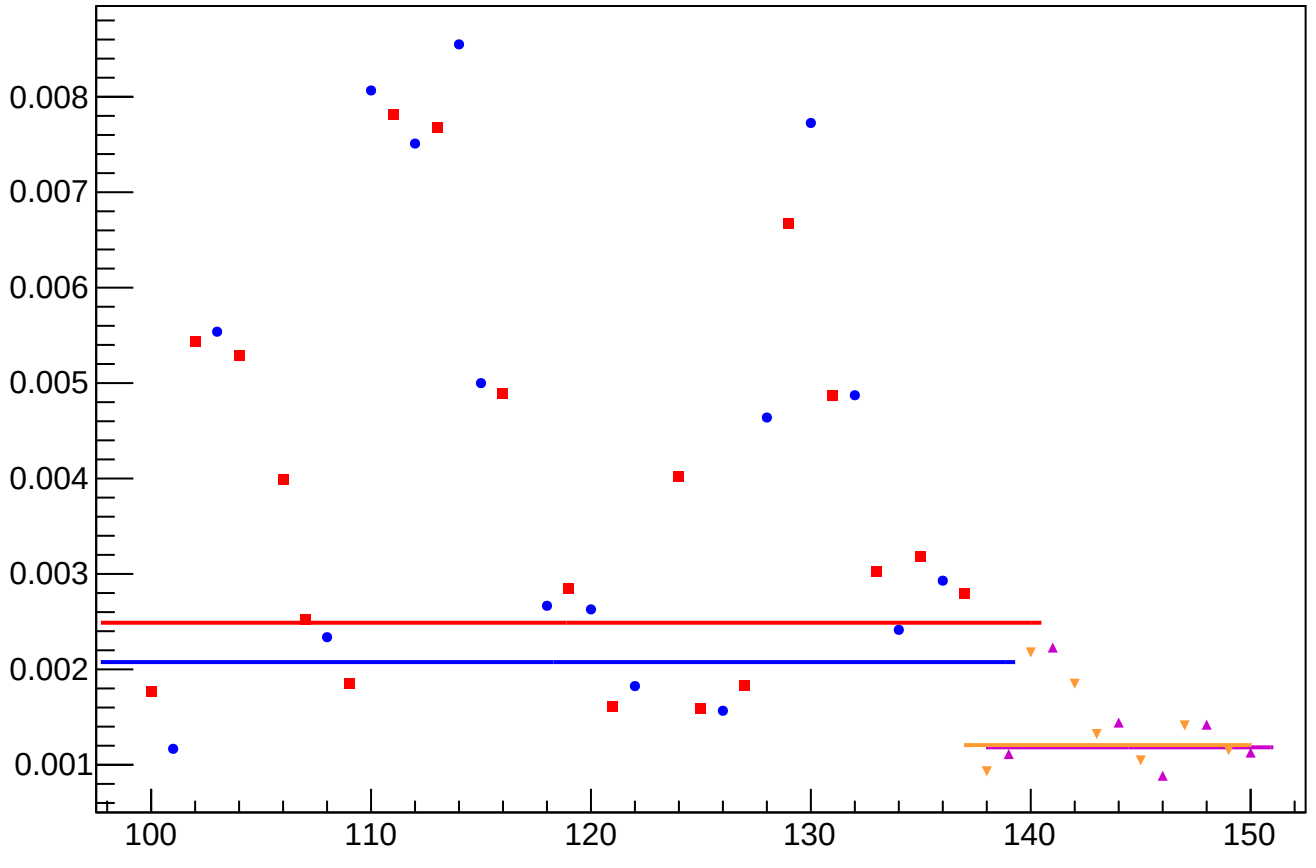
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:35.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 62.4/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3916668.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:661100.0/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3092230.7/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:686289.8/5

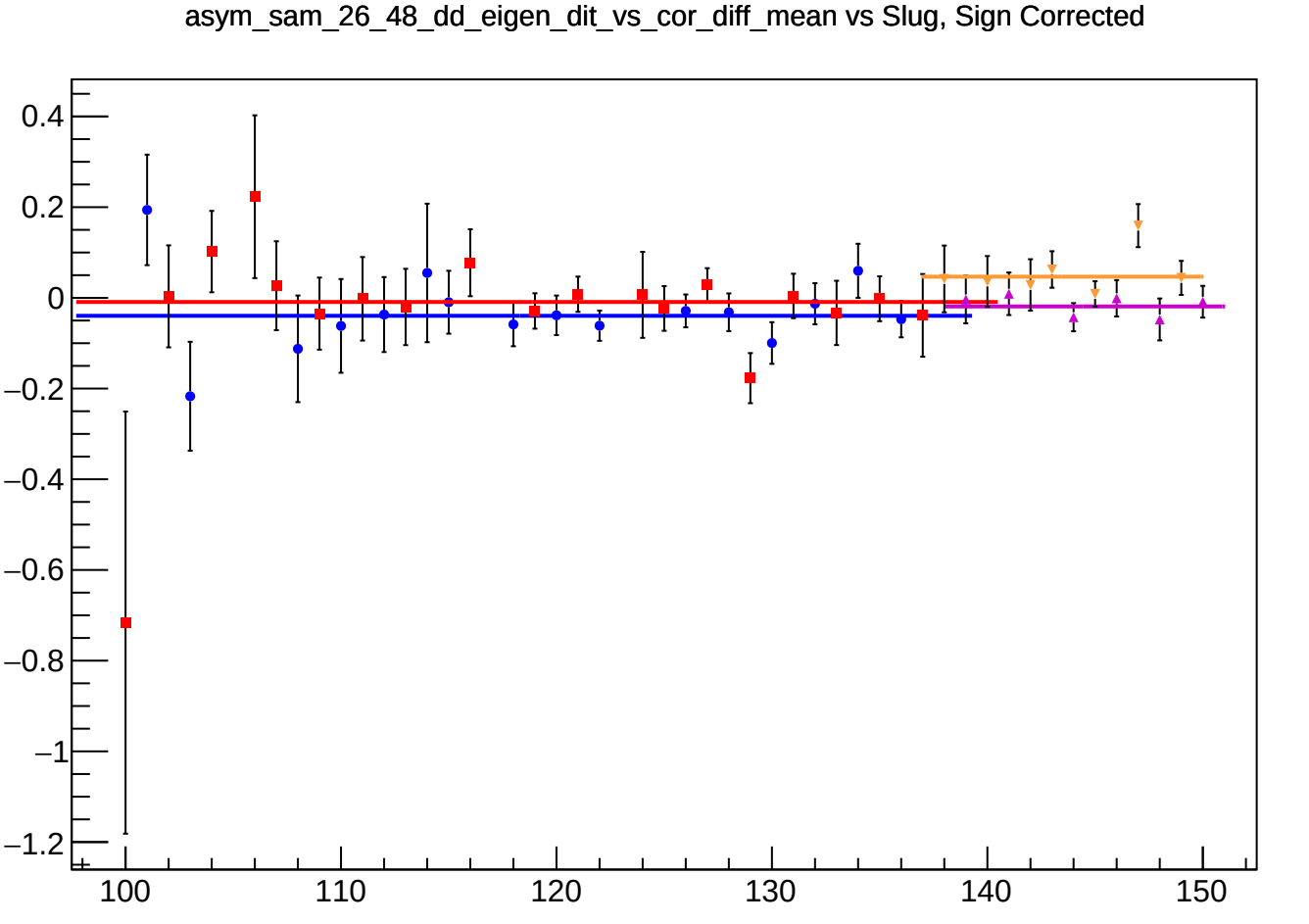
Left: 0.001+/-0.000 $\chi^2$/NDF: 1349269.4/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 7186793.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:6022747.1/21

Out: 0.001+/-0.000 $\chi^2$/NDF:6138616.9/25

All: 0.001+/-0.000 $\chi^2$/NDF: 12177130.9/47




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.047+/-0.016 $\chi^2$/NDF:7.7/6

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.019+/-0.016 $\chi^2$/NDF:1.7/5

Left: 0.014+/-0.011 $\chi^2$/NDF: 17.6/12

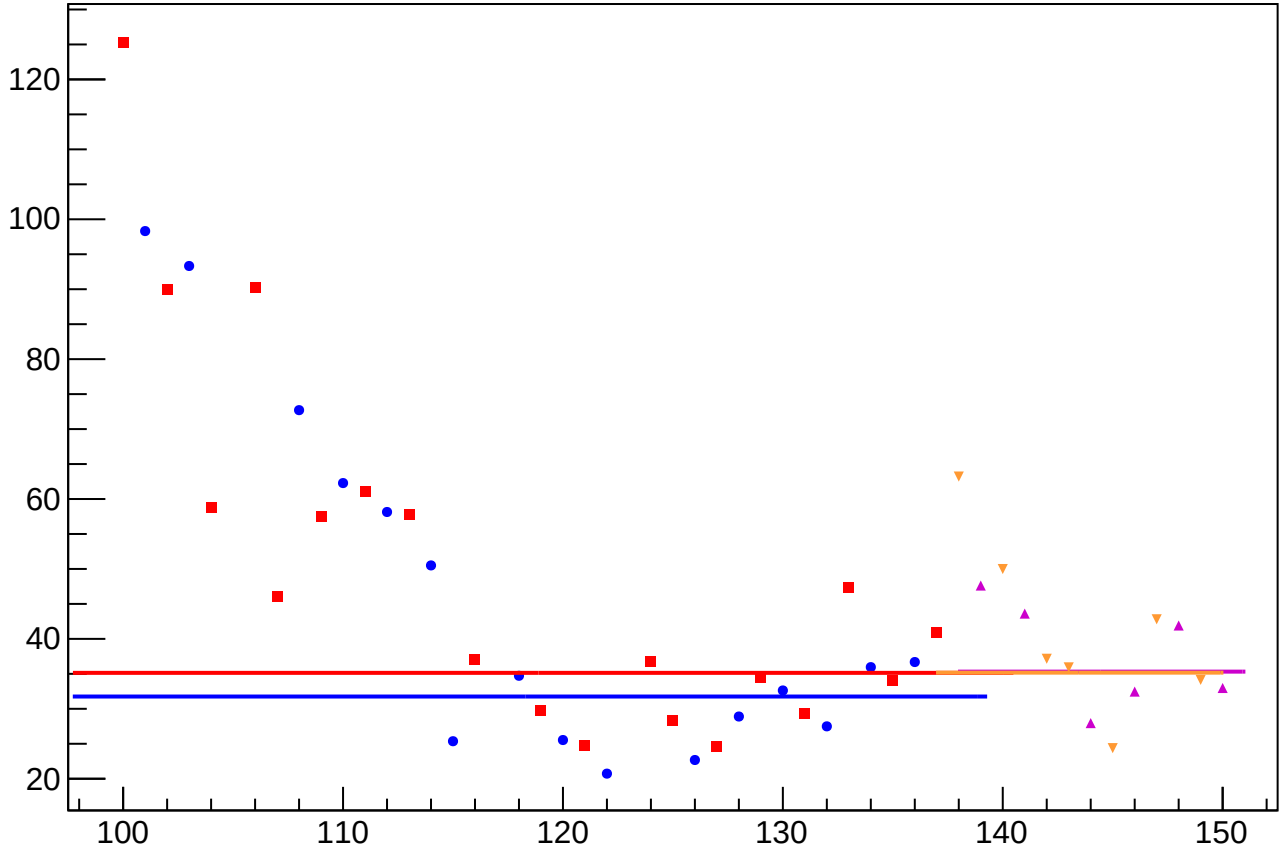
Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.031+/-0.010 $\chi^2$/NDF:15.1/21

Out: 0.015+/-0.011 $\chi^2$/NDF:32.8/25

All: -0.009+/-0.007 $\chi^2$/NDF: 57.9/47

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.756+/-0.009 $\chi^2$/NDF: 2252373.4/15

Left Out: 35.172+/-0.011 $\chi^2$/NDF:780535.9/6

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 35.316+/-0.012 $\chi^2$/NDF:344301.0/5

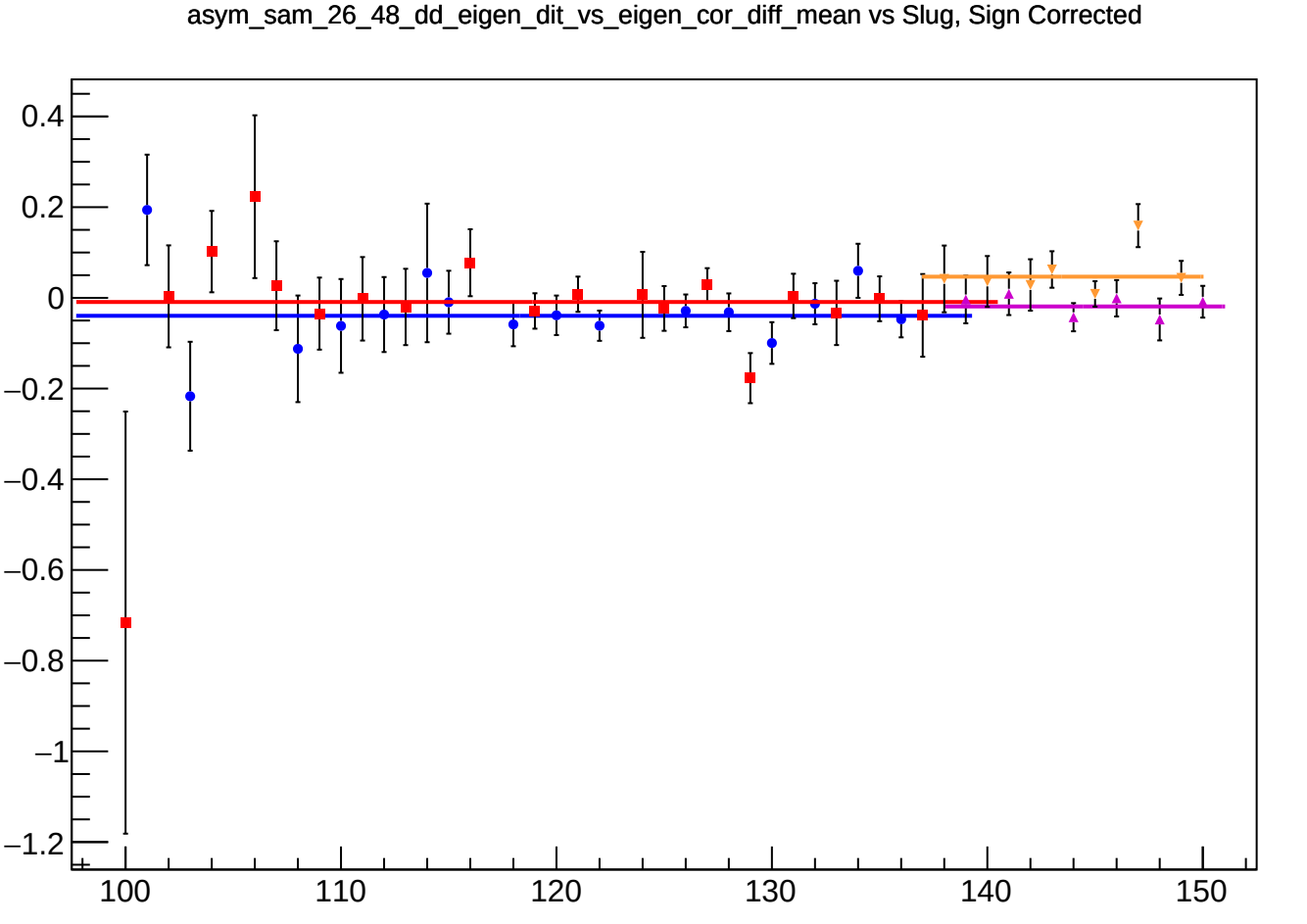
Left: 35.243+/-0.008 $\chi^2$/NDF: 1124916.1/12

Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

In: 33.160+/-0.007 $\chi^2$/NDF:2654376.3/21

Out: 35.154+/-0.008 $\chi^2$/NDF:2625112.7/25

All: 34.119+/-0.005 $\chi^2$/NDF: 5315951.1/47




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.047+/-0.016 $\chi^2$/NDF:7.7/6

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.019+/-0.016 $\chi^2$/NDF:1.7/5

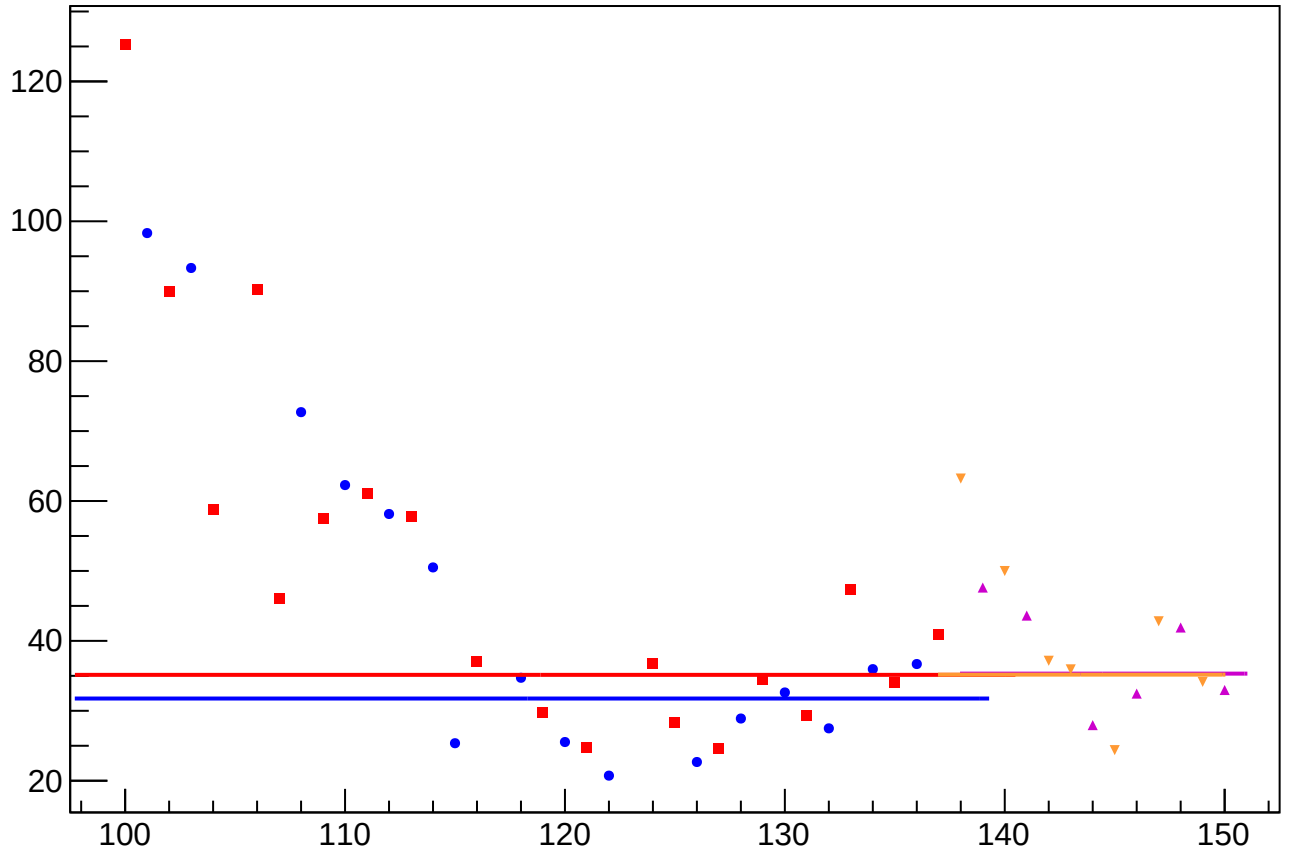
Left: 0.014+/-0.011 $\chi^2$/NDF: 17.6/12

Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.031+/-0.010 $\chi^2$/NDF:15.1/21

Out: 0.015+/-0.011 $\chi^2$/NDF:32.8/25

All: -0.009+/-0.007 $\chi^2$/NDF: 57.9/47




Right In: 31.756+/-0.009 $\chi^2$/NDF: 2252373.4/15

Left Out: 35.172+/-0.011 $\chi^2$/NDF:780535.9/6

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 35.316+/-0.012 $\chi^2$/NDF:344301.0/5

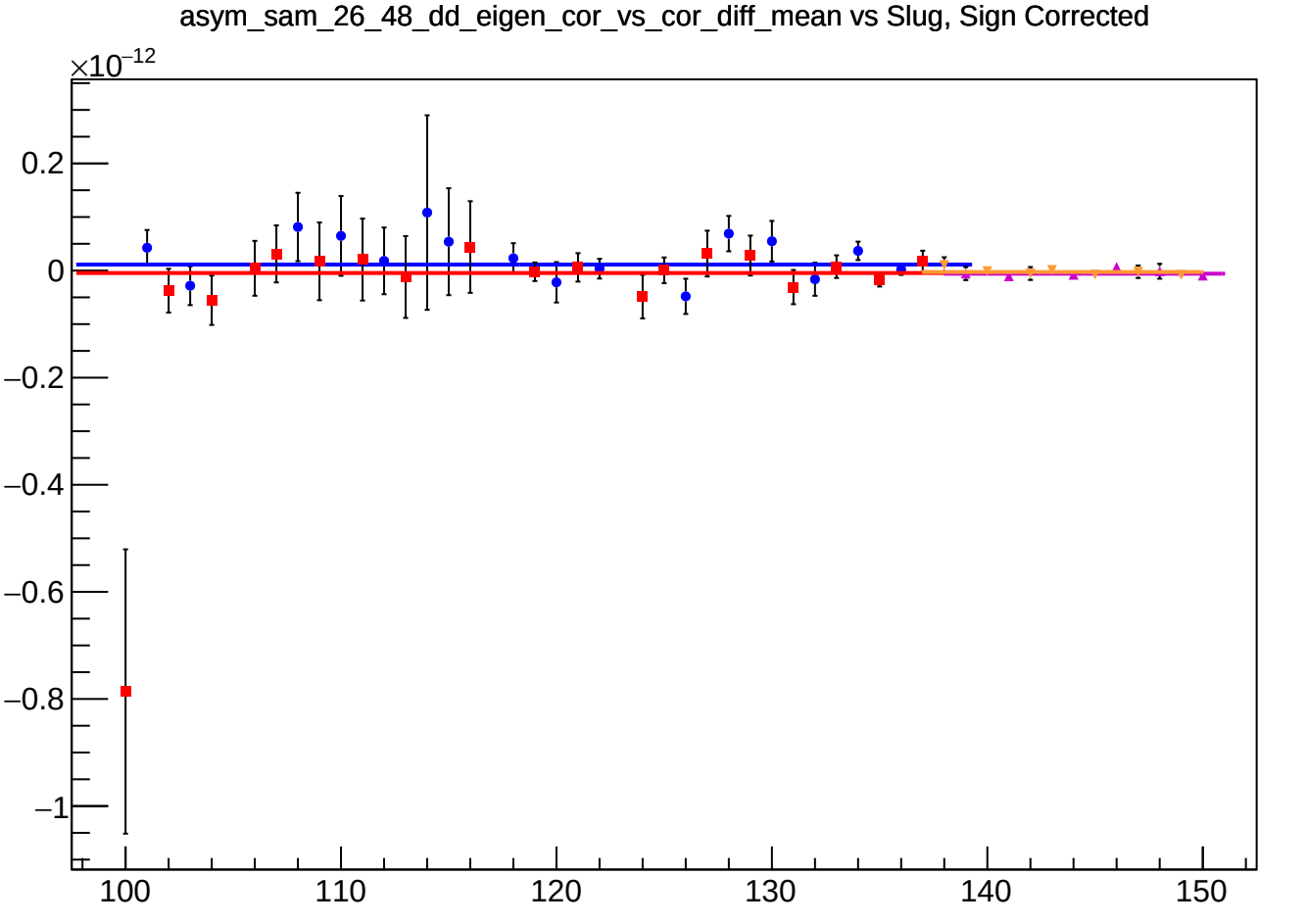
Left: 35.243+/-0.008 $\chi^2$/NDF: 1124916.1/12

Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

In: 33.160+/-0.007 $\chi^2$/NDF:2654376.3/21

Out: 35.154+/-0.008 $\chi^2$/NDF:2625112.7/25

All: 34.119+/-0.005 $\chi^2$/NDF: 5315951.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/5

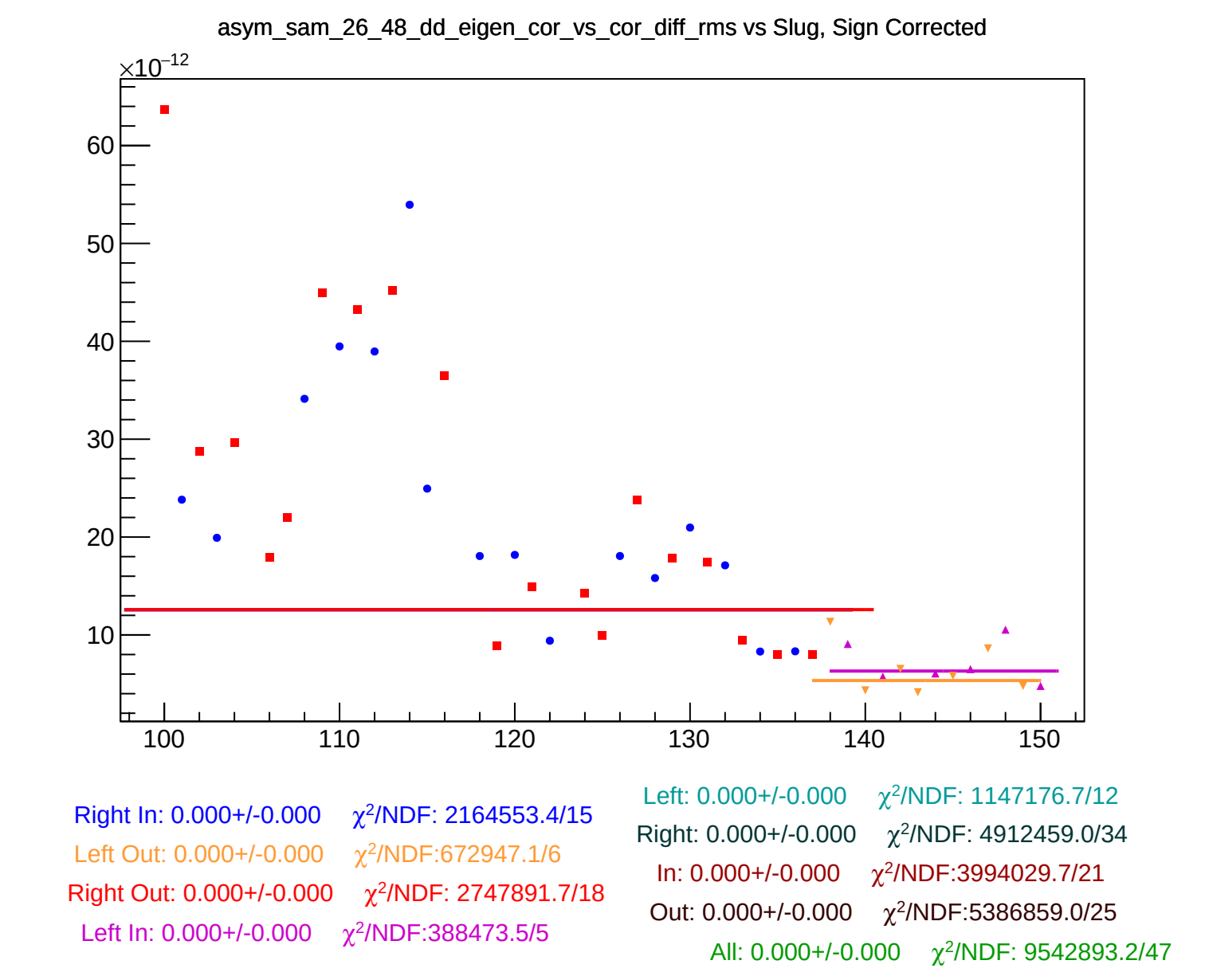
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.5/12

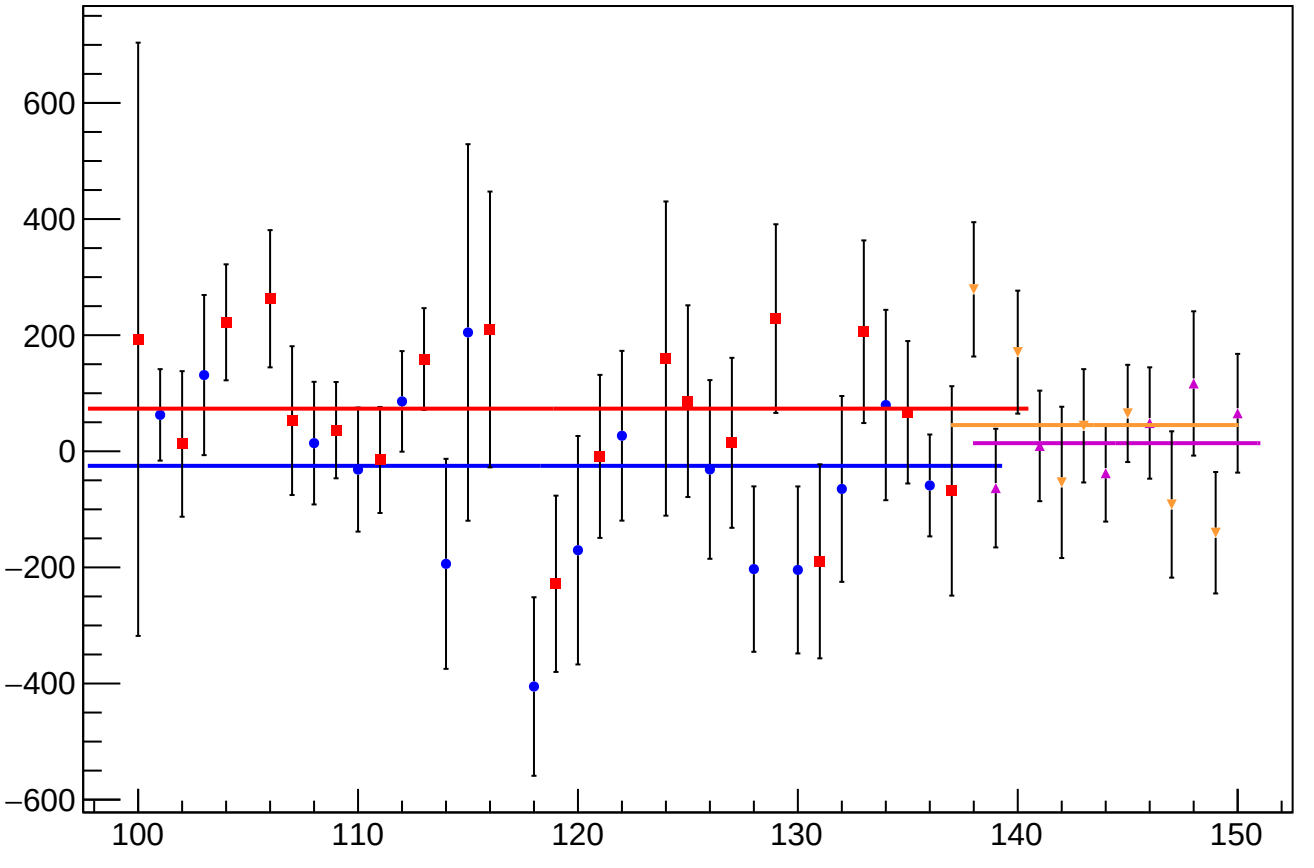
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:19.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 44.9/47


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2164553.4/15
Left Out: 0.000+/-0.000 χ²/NDF:672947.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 2747891.7/18
Left In: 0.000+/-0.000 χ²/NDF:388473.5/5
Left: 0.000+/-0.000 χ²/NDF: 1147176.7/12
Right: 0.000+/-0.000 χ²/NDF: 4912459.0/34
In: 0.000+/-0.000 χ²/NDF:3994029.7/21
Out: 0.000+/-0.000 χ²/NDF:5386859.0/25
All: 0.000+/-0.000 χ²/NDF: 9542893.2/47




Right In: -25.072+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 45.199+/-40.010 $\chi^2$/NDF:10.4/6

Right Out: 73.458+/-29.935 $\chi^2$/NDF: 16.8/18

Left In: 13.990+/-40.198 $\chi^2$/NDF:2.0/5

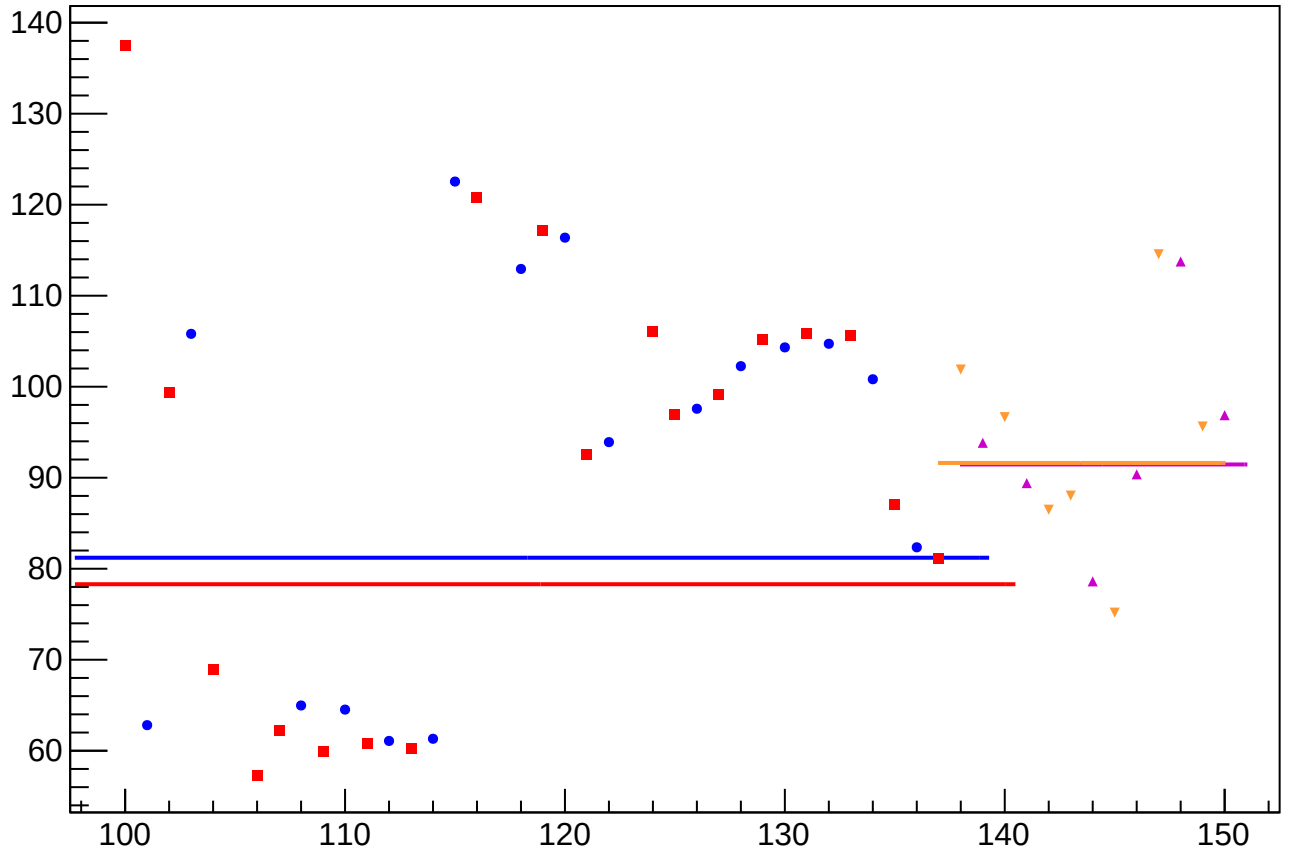
Left: 29.668+/-28.358 $\chi^2$/NDF: 12.8/12

Right: 26.278+/-21.610 $\chi^2$/NDF: 38.2/34

In: -10.369+/-24.662 $\chi^2$/NDF:18.8/21

Out: 63.316+/-23.969 $\chi^2$/NDF:27.6/25

All: 27.523+/-17.188 $\chi^2$/NDF: 51.0/47




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787676.9/15

Left Out: 91.623+/-0.028 $\chi^2$/NDF:172378.1/6

Right Out: 78.298+/-0.021 $\chi^2$/NDF: 934673.9/18

Left In: 91.456+/-0.028 $\chi^2$/NDF:119694.0/5

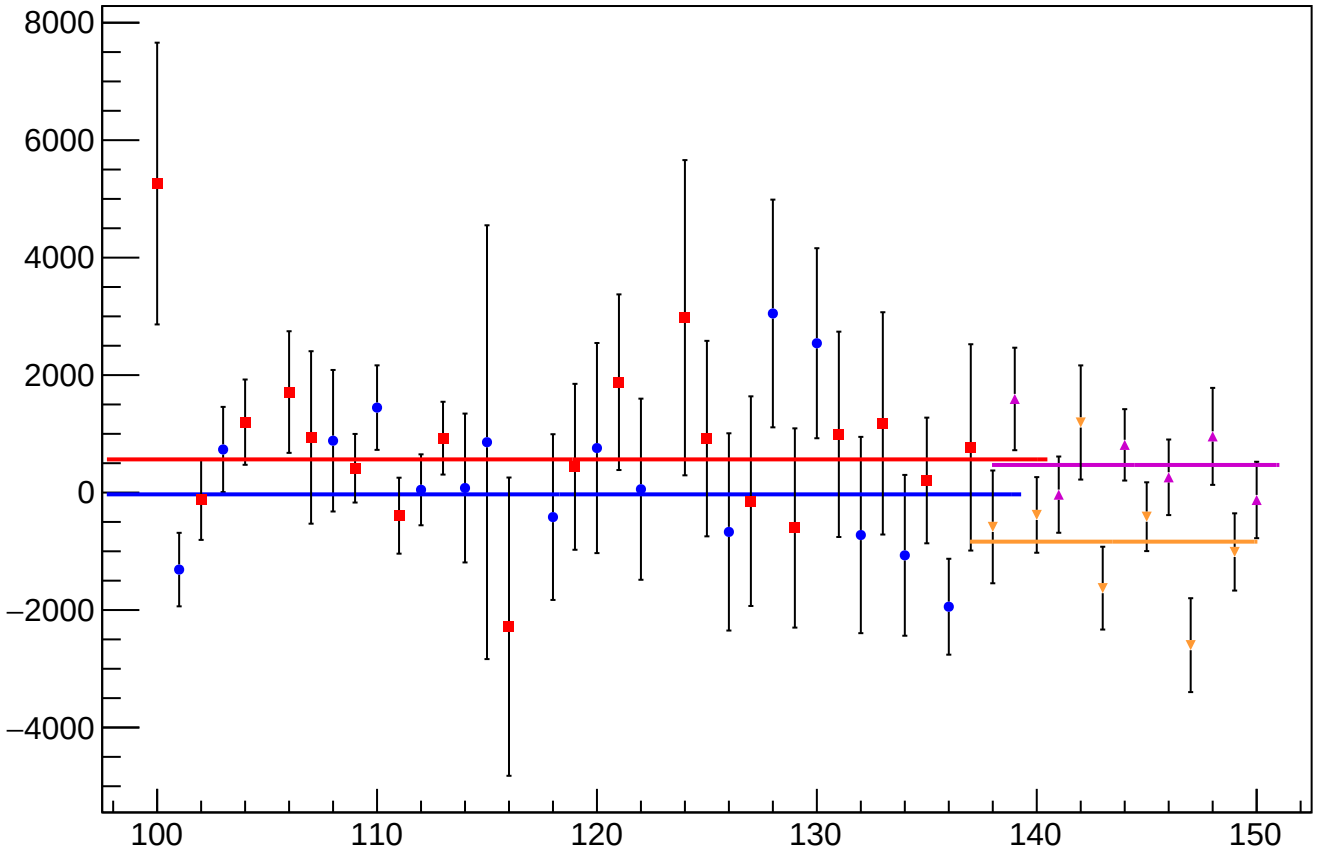
Left: 91.540+/-0.020 $\chi^2$/NDF: 292089.2/12

Right: 79.692+/-0.015 $\chi^2$/NDF: 1731411.2/34

In: 85.066+/-0.017 $\chi^2$/NDF:988413.4/21

Out: 83.080+/-0.017 $\chi^2$/NDF:1249265.8/25

All: 84.045+/-0.012 $\chi^2$/NDF: 2244352.8/47




Right In: -30.407+/-256.999 $\chi^2$/NDF: 21.9/15

Left Out: -835.617+/-273.593 $\chi^2$/NDF:11.6/6

Right Out: 564.890+/-238.492 $\chi^2$/NDF: 13.3/18

Left In: 470.122+/-281.287 $\chi^2$/NDF:3.9/5

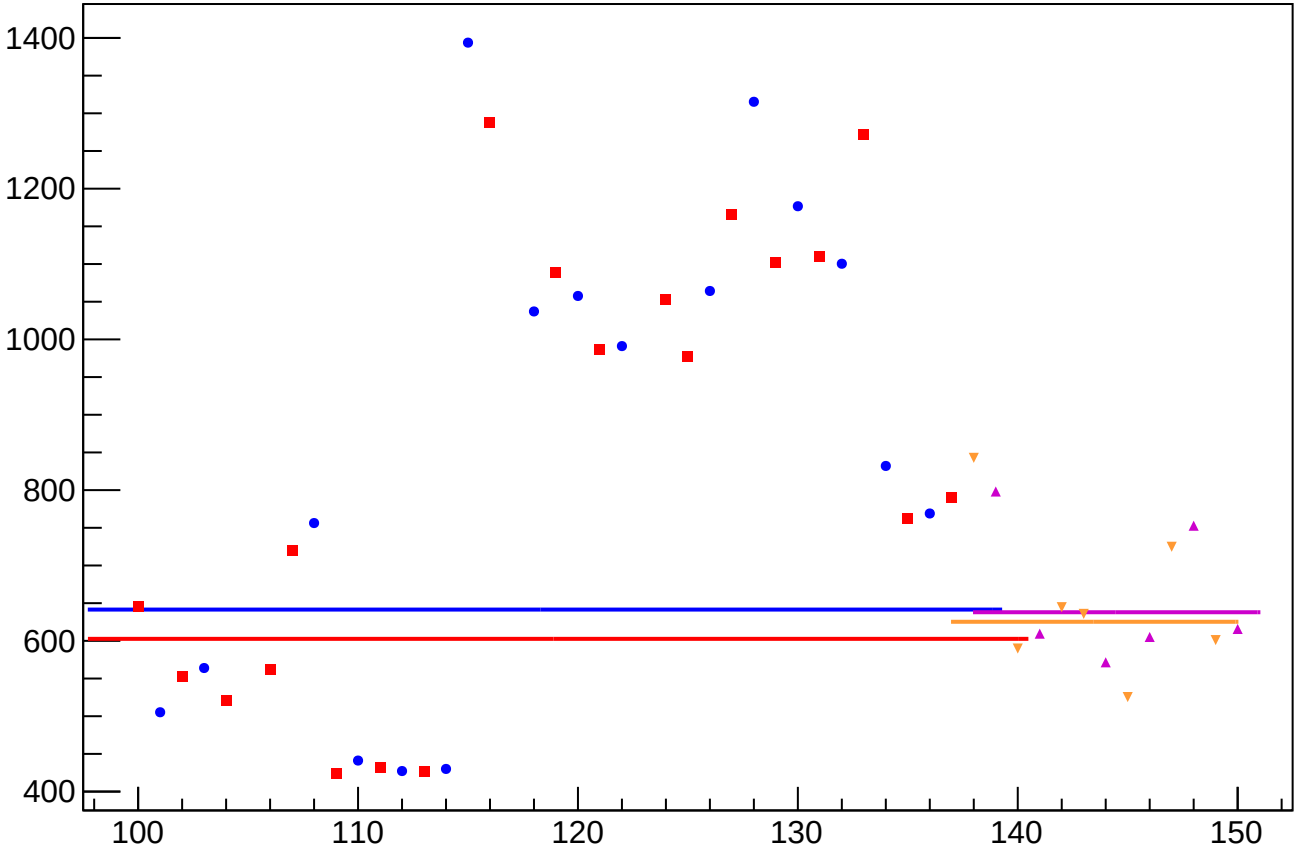
Left: -200.850+/-196.123 $\chi^2$/NDF: 26.6/12

Right: 289.446+/-174.816 $\chi^2$/NDF: 38.1/34

In: 197.319+/-189.733 $\chi^2$/NDF:27.5/21

Out: -39.813+/-179.777 $\chi^2$/NDF:39.8/25

All: 72.369+/-130.499 $\chi^2$/NDF: 68.1/47




Right In: 641.499+/-0.182 $\chi^2$/NDF: 1874990.8/15

Left Out: 625.317+/-0.193 $\chi^2$/NDF:201900.6/6

Right Out: 602.654+/-0.169 $\chi^2$/NDF: 2070307.7/18

Left In: 637.964+/-0.199 $\chi^2$/NDF:141333.2/5

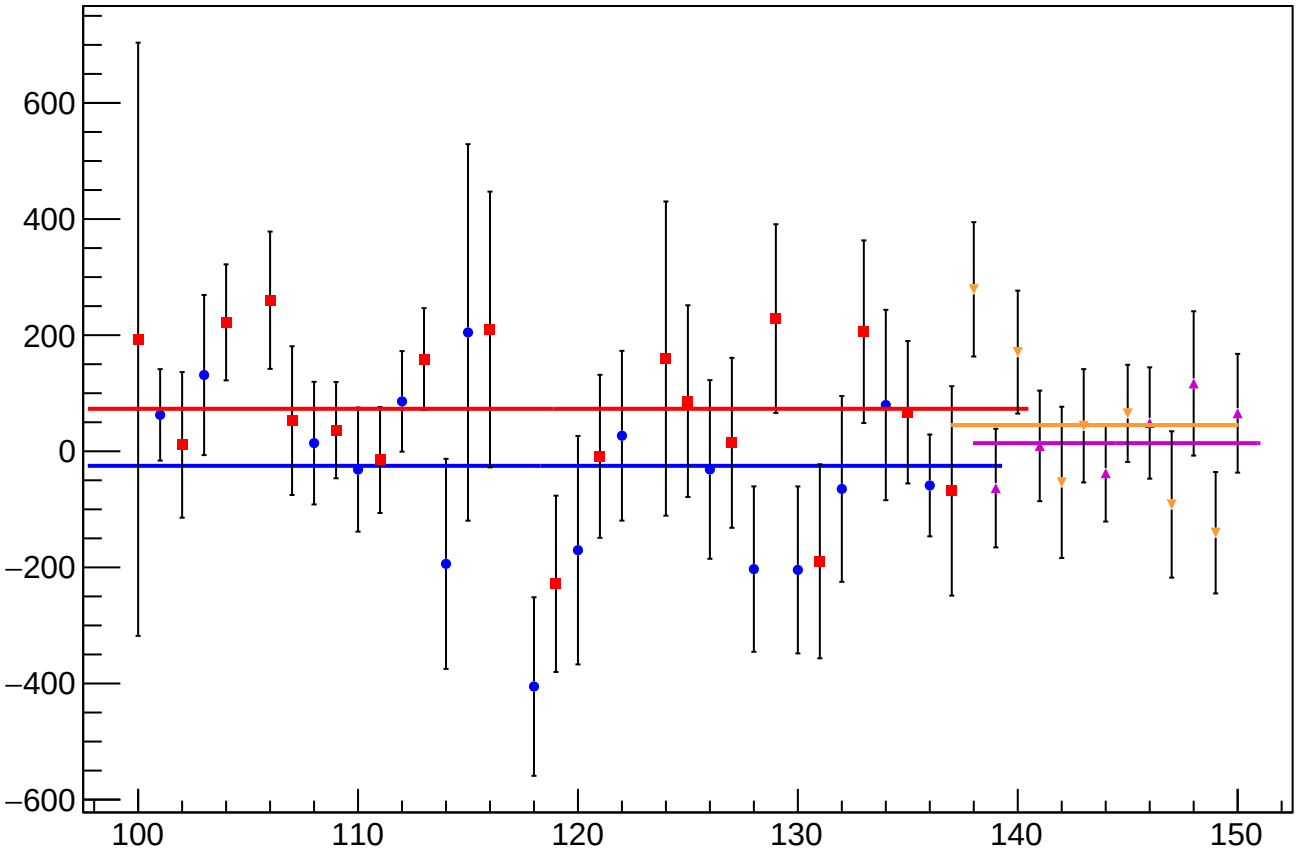
Left: 631.465+/-0.139 $\chi^2$/NDF: 345311.3/12

Right: 620.627+/-0.124 $\chi^2$/NDF: 3969848.5/34

In: 639.891+/-0.134 $\chi^2$/NDF:2016496.1/21

Out: 612.439+/-0.127 $\chi^2$/NDF:2280006.6/25

All: 625.426+/-0.092 $\chi^2$/NDF: 4318563.4/47




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 45.210+/-40.010 $\chi^2$/NDF:10.4/6

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: 13.993+/-40.198 $\chi^2$/NDF:2.0/5

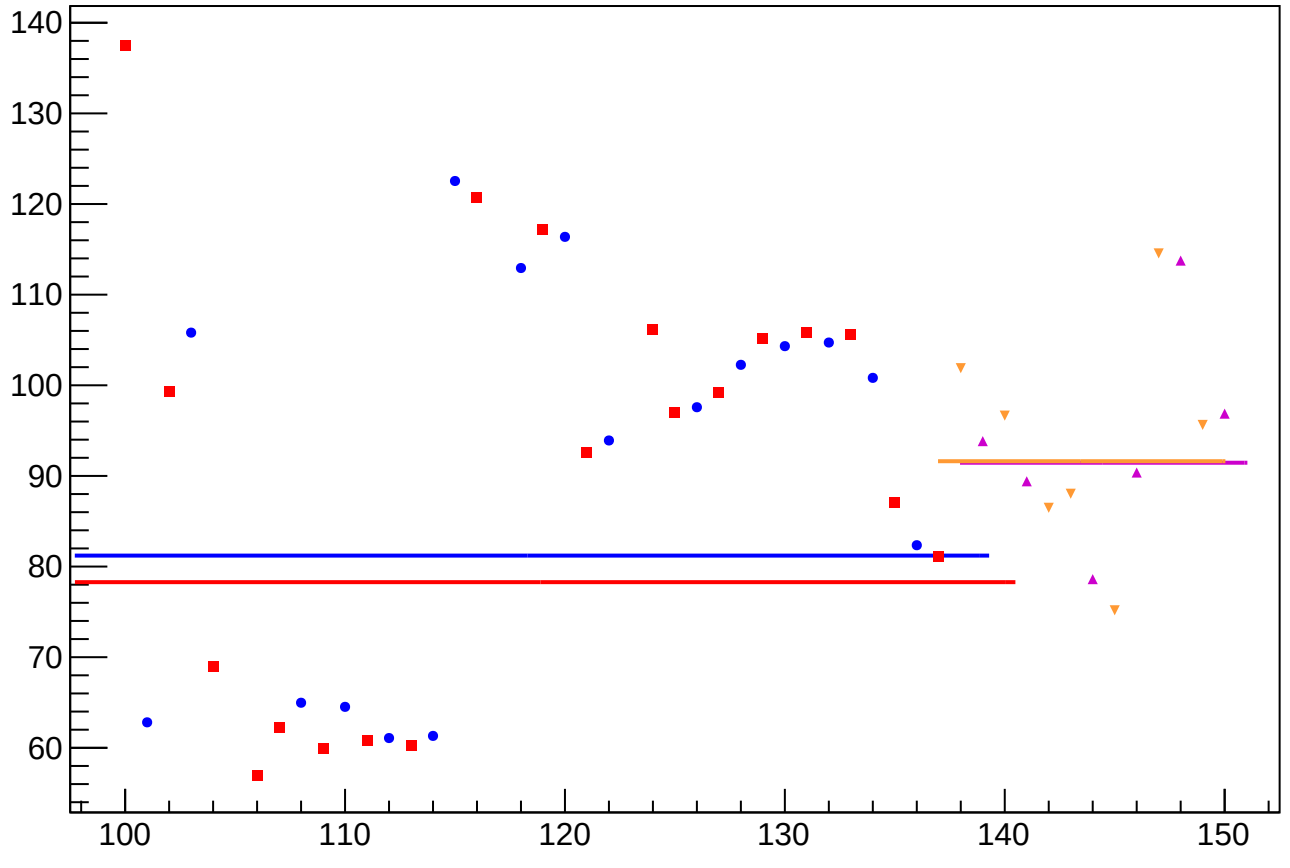
Left: 29.675+/-28.358 $\chi^2$/NDF: 12.8/12

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: -10.370+/-24.662 $\chi^2$/NDF:18.8/21

Out: 63.149+/-23.970 $\chi^2$/NDF:27.5/25

All: 27.436+/-17.189 $\chi^2$/NDF: 50.9/47




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 91.623+/-0.028 $\chi^2$/NDF:172378.1/6

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 91.456+/-0.028 $\chi^2$/NDF:119694.0/5

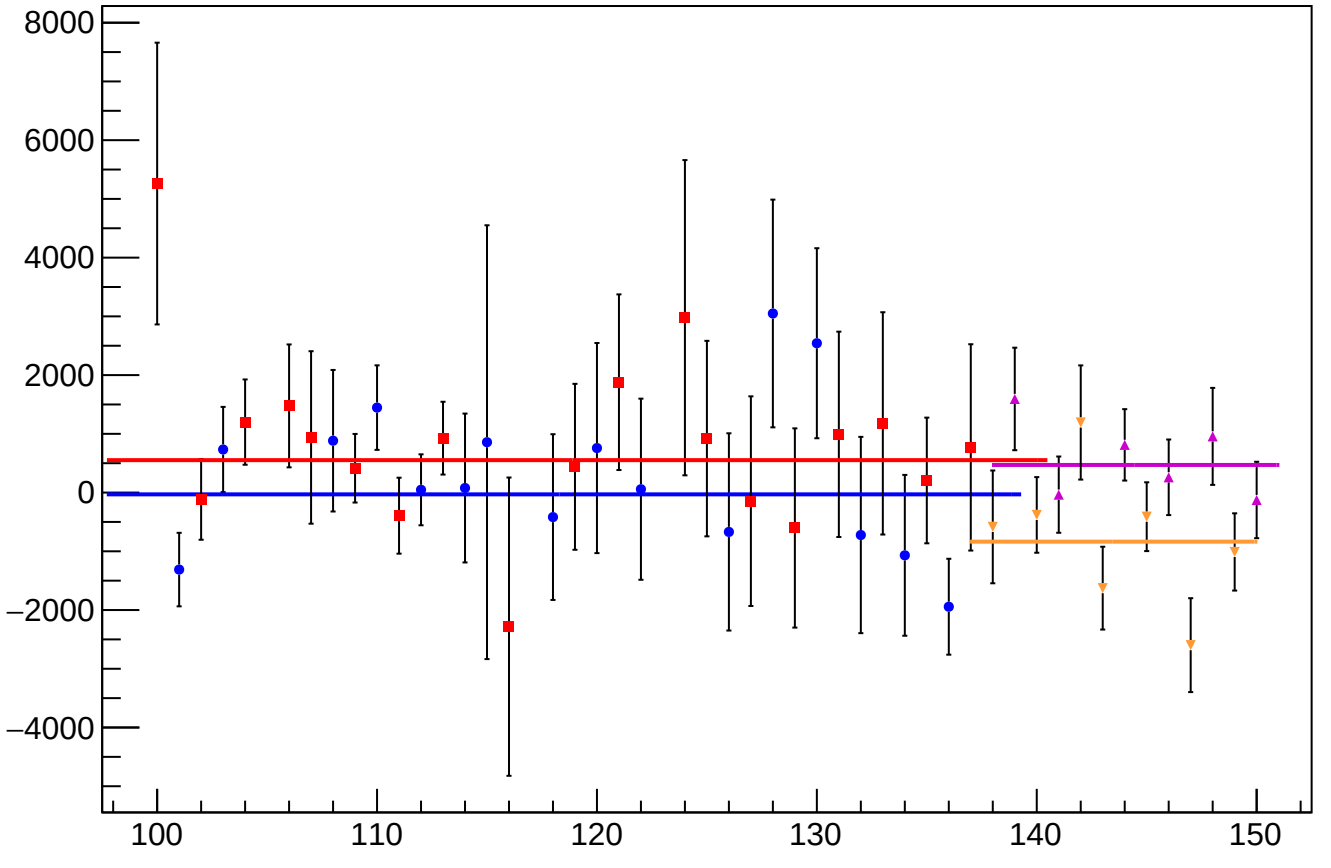
Left: 91.540+/-0.020 $\chi^2$/NDF: 292089.2/12

Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 85.066+/-0.017 $\chi^2$/NDF:988415.5/21

Out: 83.068+/-0.017 $\chi^2$/NDF:1251796.2/25

All: 84.039+/-0.012 $\chi^2$/NDF: 2246963.0/47




Right In: -30.434+/-257.002 $\chi^2$/NDF: 21.9/15

Left Out: -835.608+/-273.593 $\chi^2$/NDF:11.6/6

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 470.130+/-281.288 $\chi^2$/NDF:3.9/5

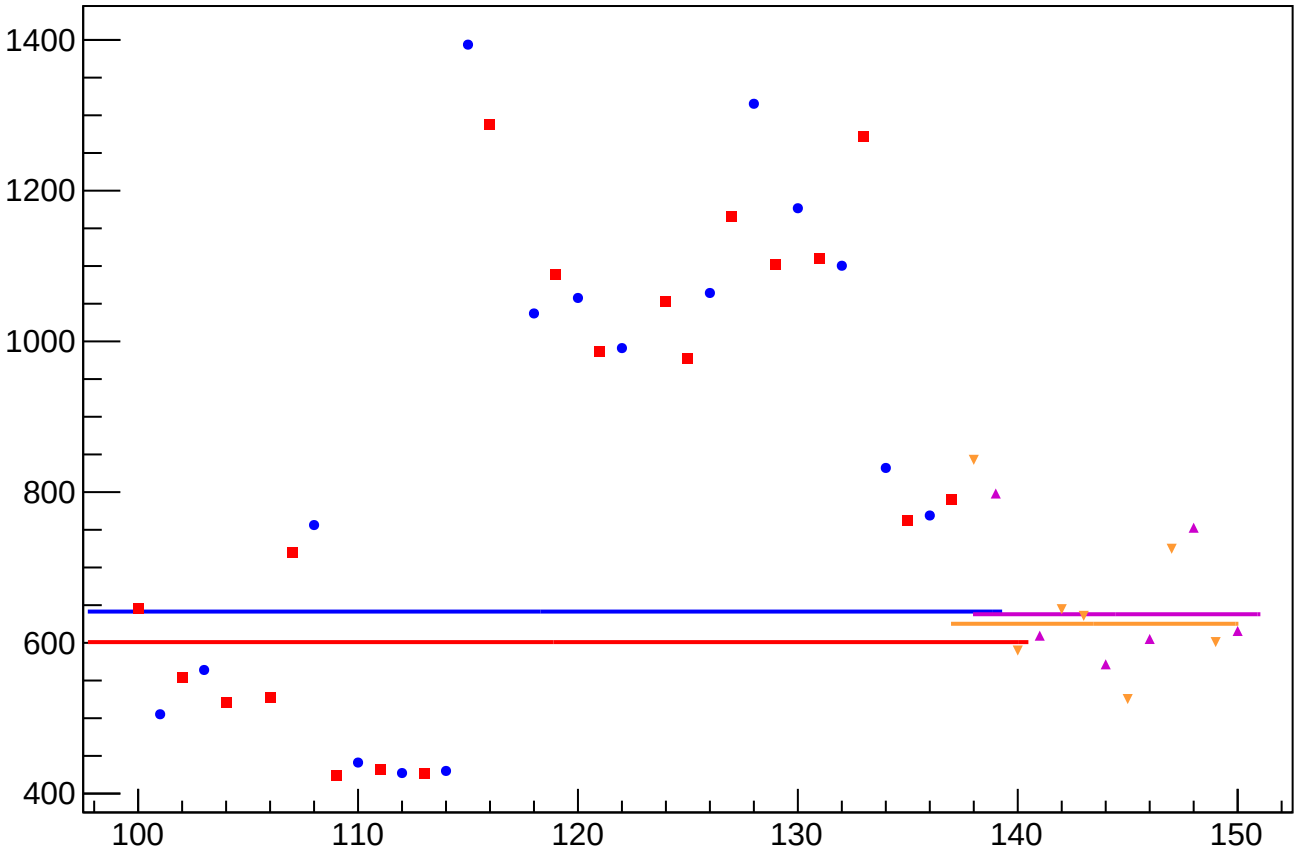
Left: -200.841+/-196.123 $\chi^2$/NDF: 26.6/12

Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 197.311+/-189.734 $\chi^2$/NDF:27.5/21

Out: -47.586+/-179.840 $\chi^2$/NDF:39.1/25

All: 68.311+/-130.524 $\chi^2$/NDF: 67.4/47




Right In: 641.507+/-0.182 $\chi^2$/NDF: 1874950.0/15

Left Out: 625.317+/-0.193 $\chi^2$/NDF:201901.4/6

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 637.964+/-0.199 $\chi^2$/NDF:141331.7/5

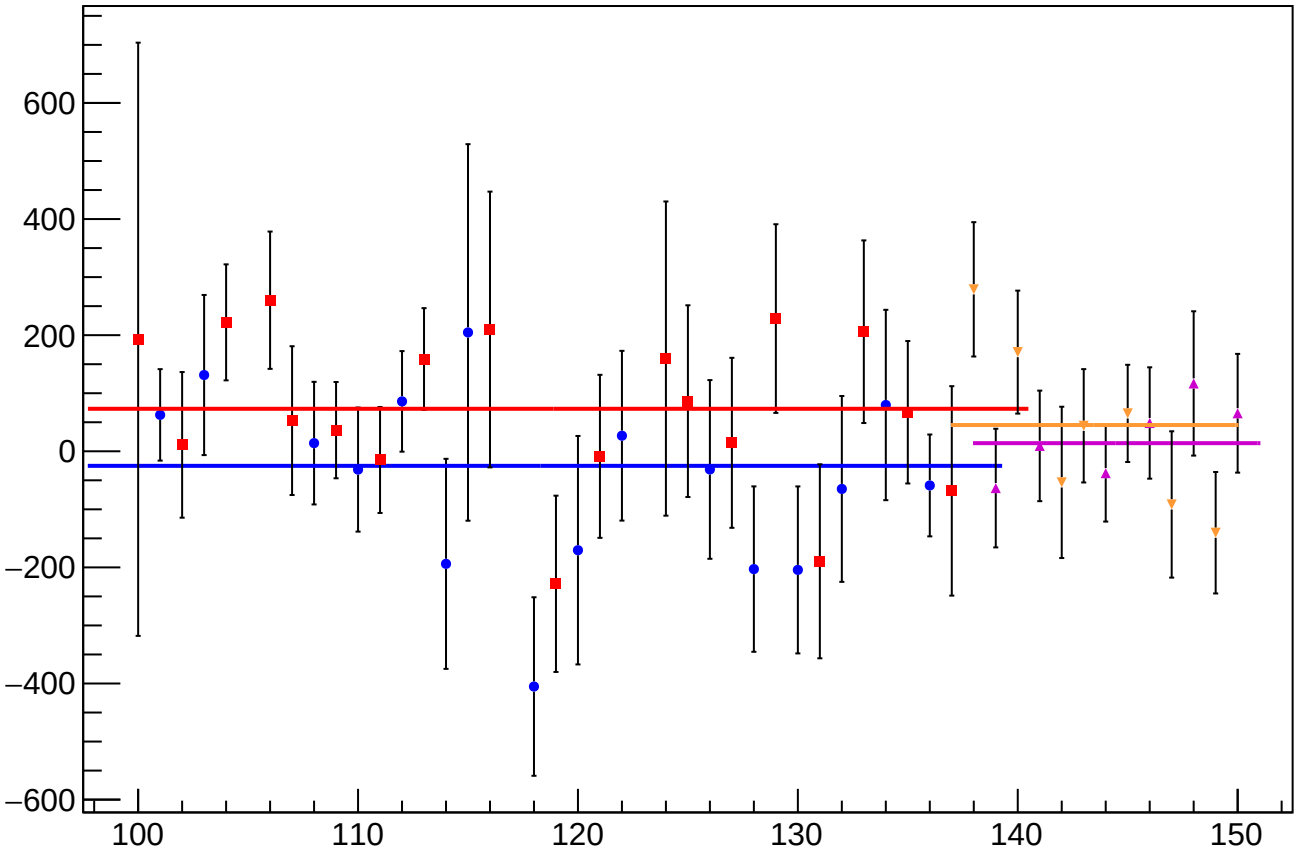
Left: 631.465+/-0.139 $\chi^2$/NDF: 345310.8/12

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 639.895+/-0.134 $\chi^2$/NDF:2016454.7/21

Out: 611.493+/-0.127 $\chi^2$/NDF:2288125.0/25

All: 624.934+/-0.092 $\chi^2$/NDF: 4328187.7/47




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 45.210+/-40.010 $\chi^2$/NDF:10.4/6

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: 13.993+/-40.198 $\chi^2$/NDF:2.0/5

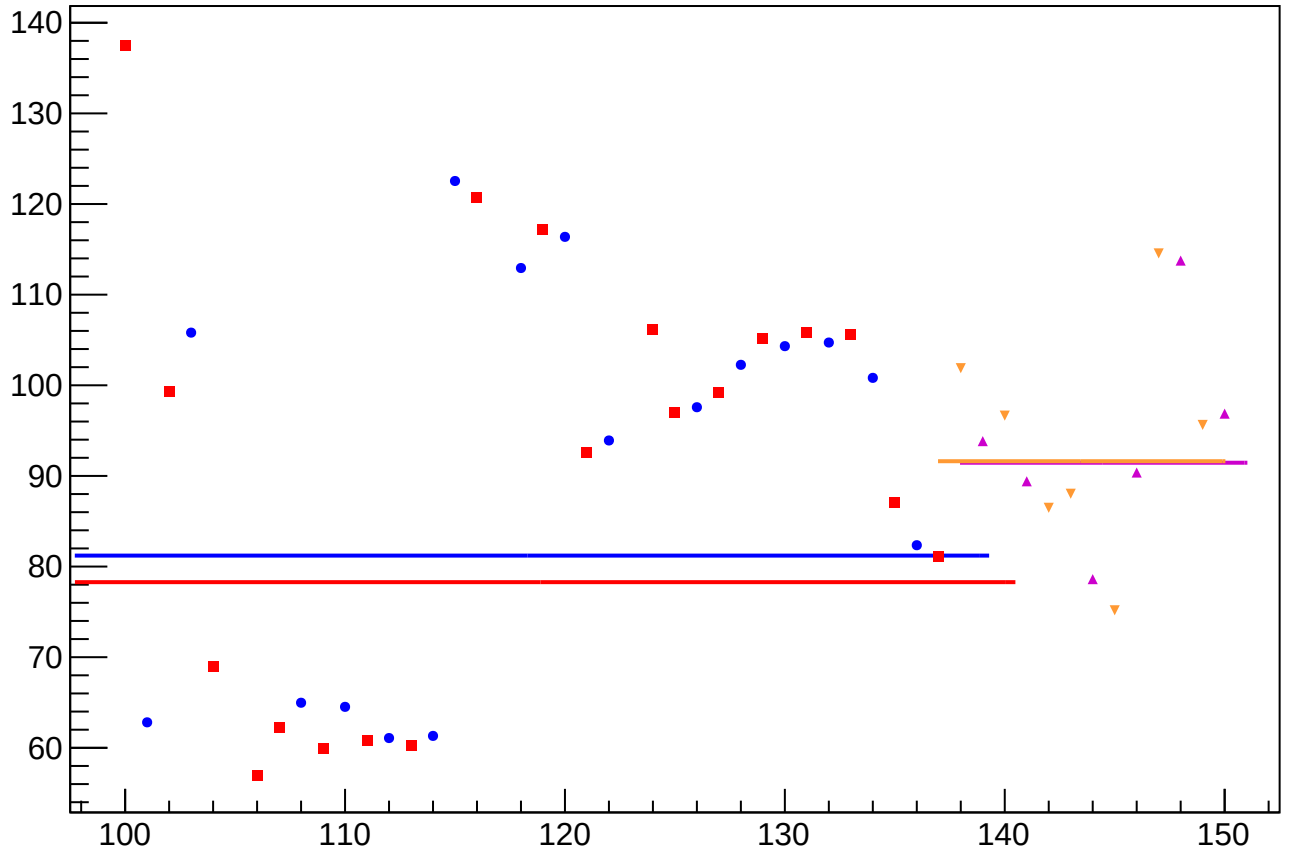
Left: 29.675+/-28.358 $\chi^2$/NDF: 12.8/12

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: -10.370+/-24.662 $\chi^2$/NDF:18.8/21

Out: 63.149+/-23.970 $\chi^2$/NDF:27.5/25

All: 27.436+/-17.189 $\chi^2$/NDF: 50.9/47




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 91.623+/-0.028 $\chi^2$/NDF:172378.1/6

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 91.456+/-0.028 $\chi^2$/NDF:119694.0/5

Left: 91.540+/-0.020 $\chi^2$/NDF: 292089.2/12

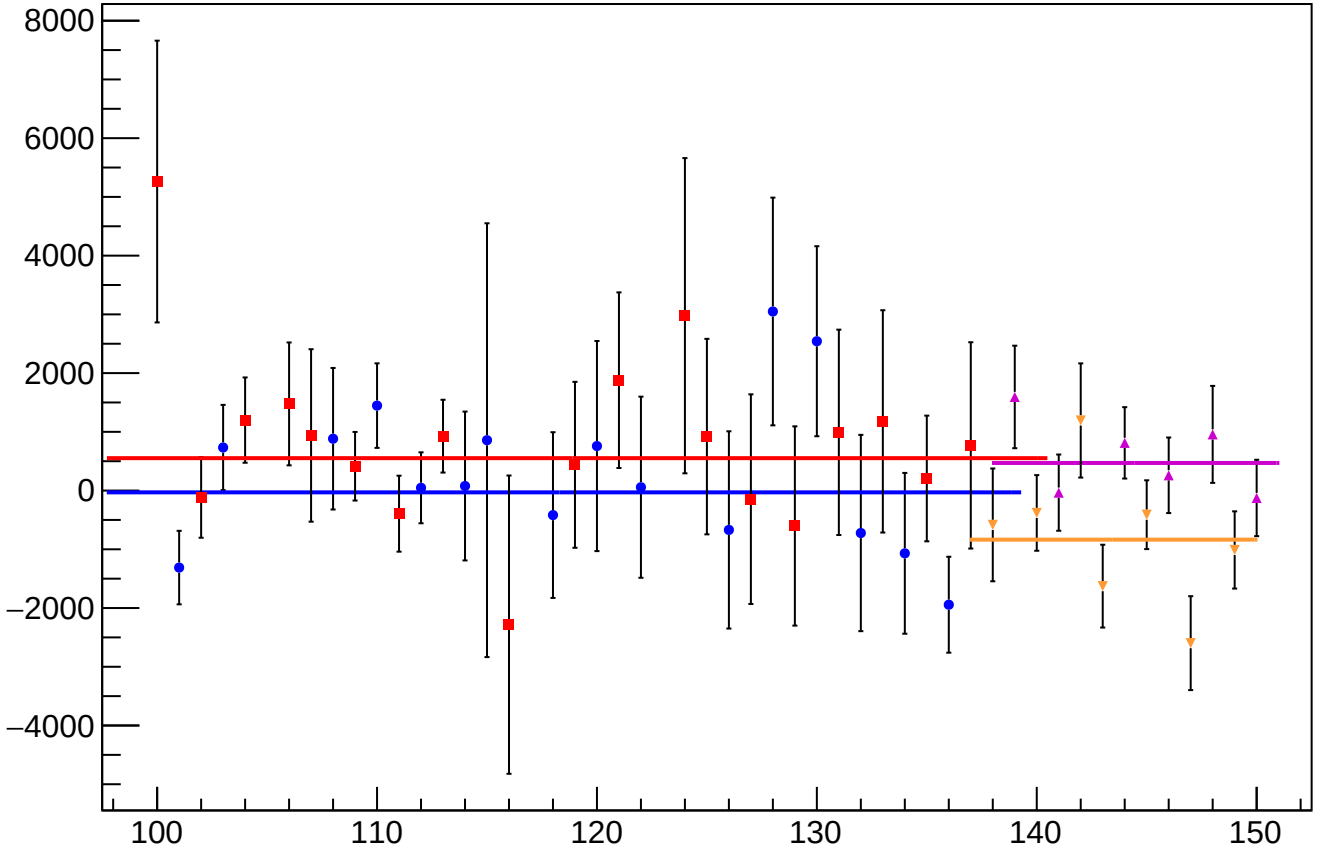
Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 85.066+/-0.017 $\chi^2$/NDF:988415.5/21

Out: 83.068+/-0.017 $\chi^2$/NDF:1251796.2/25

All: 84.039+/-0.012 $\chi^2$/NDF: 2246963.0/47

asym_sam_1548_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -30.434+/-257.002 $\chi^2$/NDF: 21.9/15

Left Out: -835.608+/-273.593 $\chi^2$/NDF:11.6/6

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 470.130+/-281.288 $\chi^2$/NDF:3.9/5

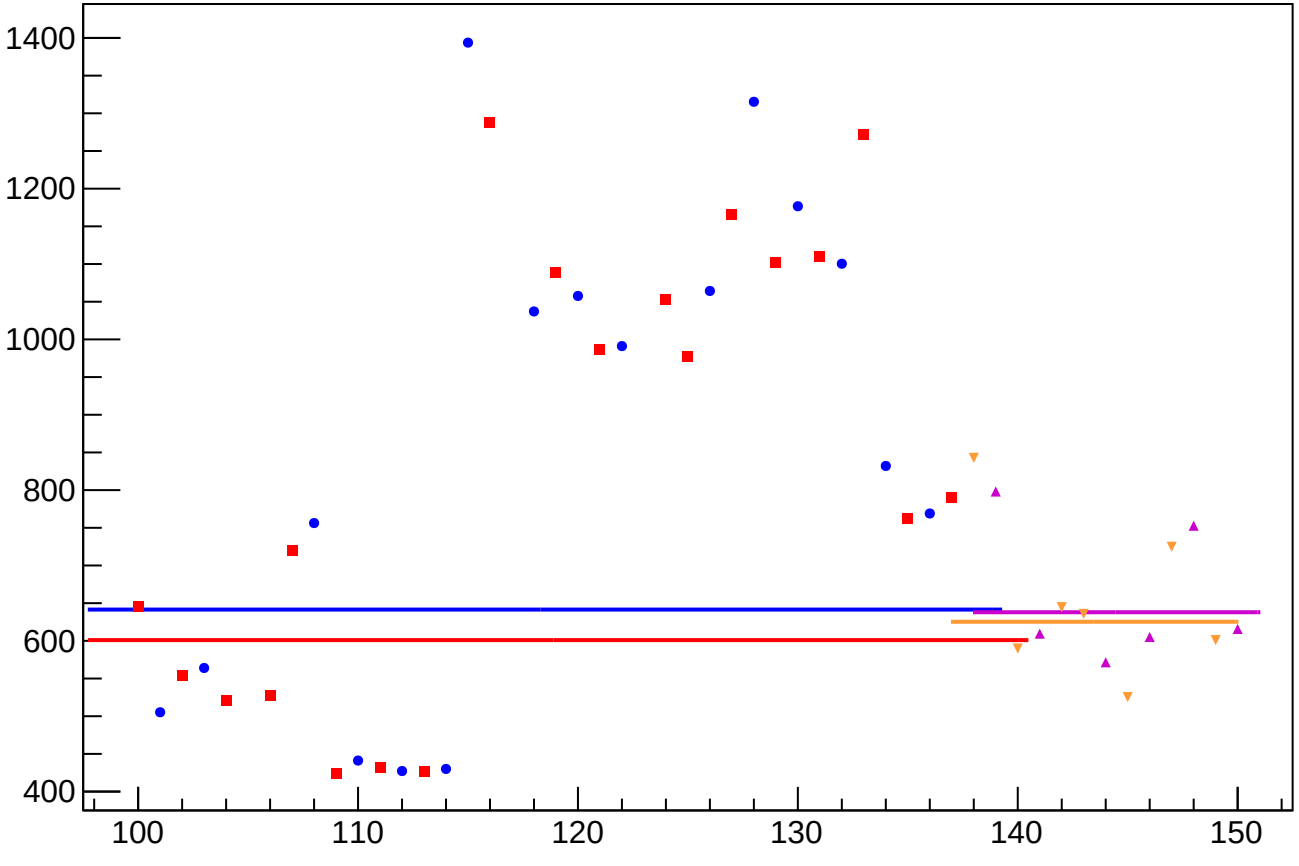
Left: -200.841+/-196.123 $\chi^2$/NDF: 26.6/12

Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 197.311+/-189.734 $\chi^2$/NDF:27.5/21

Out: -47.586+/-179.840 $\chi^2$/NDF:39.1/25

All: 68.311+/-130.524 $\chi^2$/NDF: 67.4/47




Right In: 641.507+/-0.182 $\chi^2$/NDF: 1874950.0/15

Left Out: 625.317+/-0.193 $\chi^2$/NDF:201901.4/6

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 637.964+/-0.199 $\chi^2$/NDF:141331.7/5

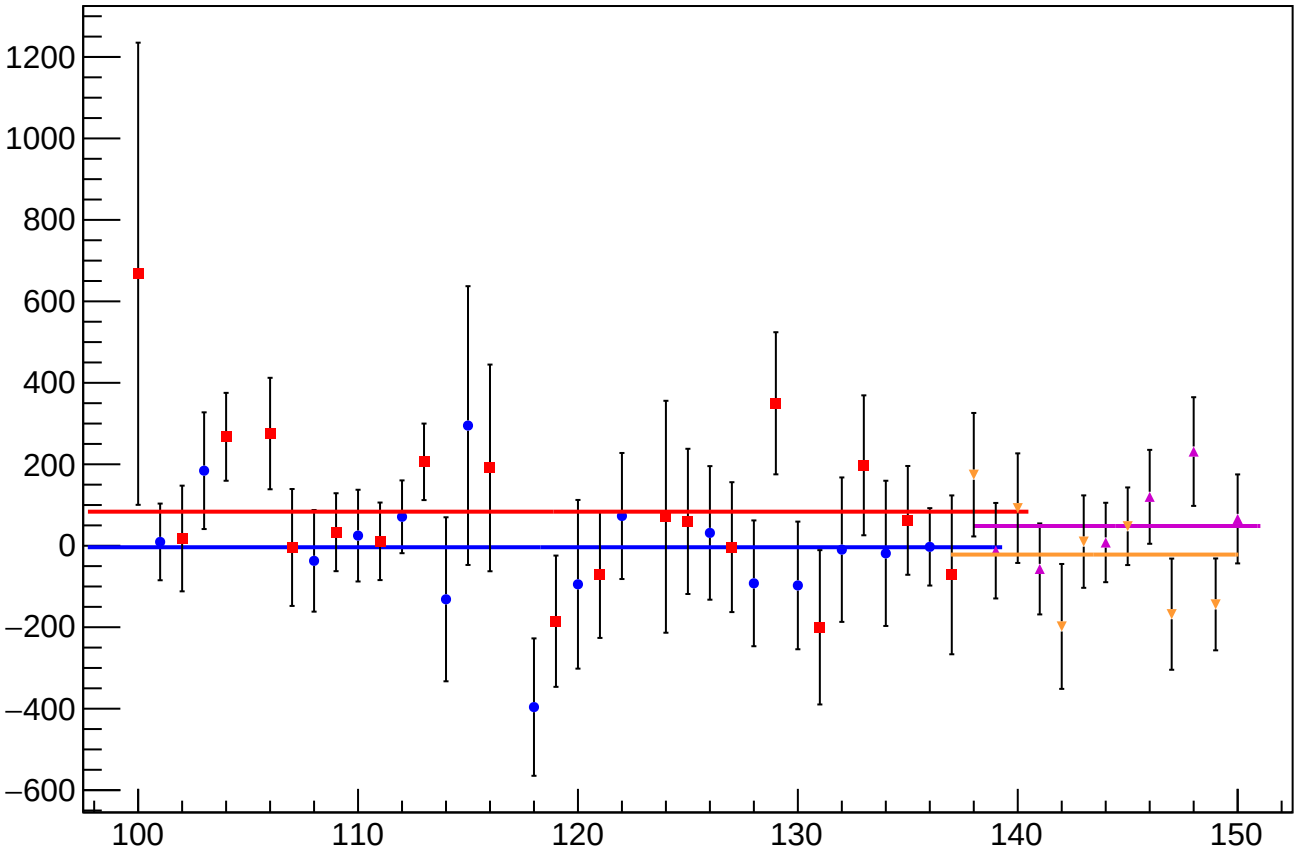
Left: 631.465+/-0.139 $\chi^2$/NDF: 345310.8/12

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 639.895+/-0.134 $\chi^2$/NDF:2016454.7/21

Out: 611.493+/-0.127 $\chi^2$/NDF:2288125.0/25

All: 624.934+/-0.092 $\chi^2$/NDF: 4328187.7/47




Right In: -3.635+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: -21.655+/-46.554 $\chi^2$/NDF:6.7/6

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: 48.508+/-45.962 $\chi^2$/NDF:3.6/5

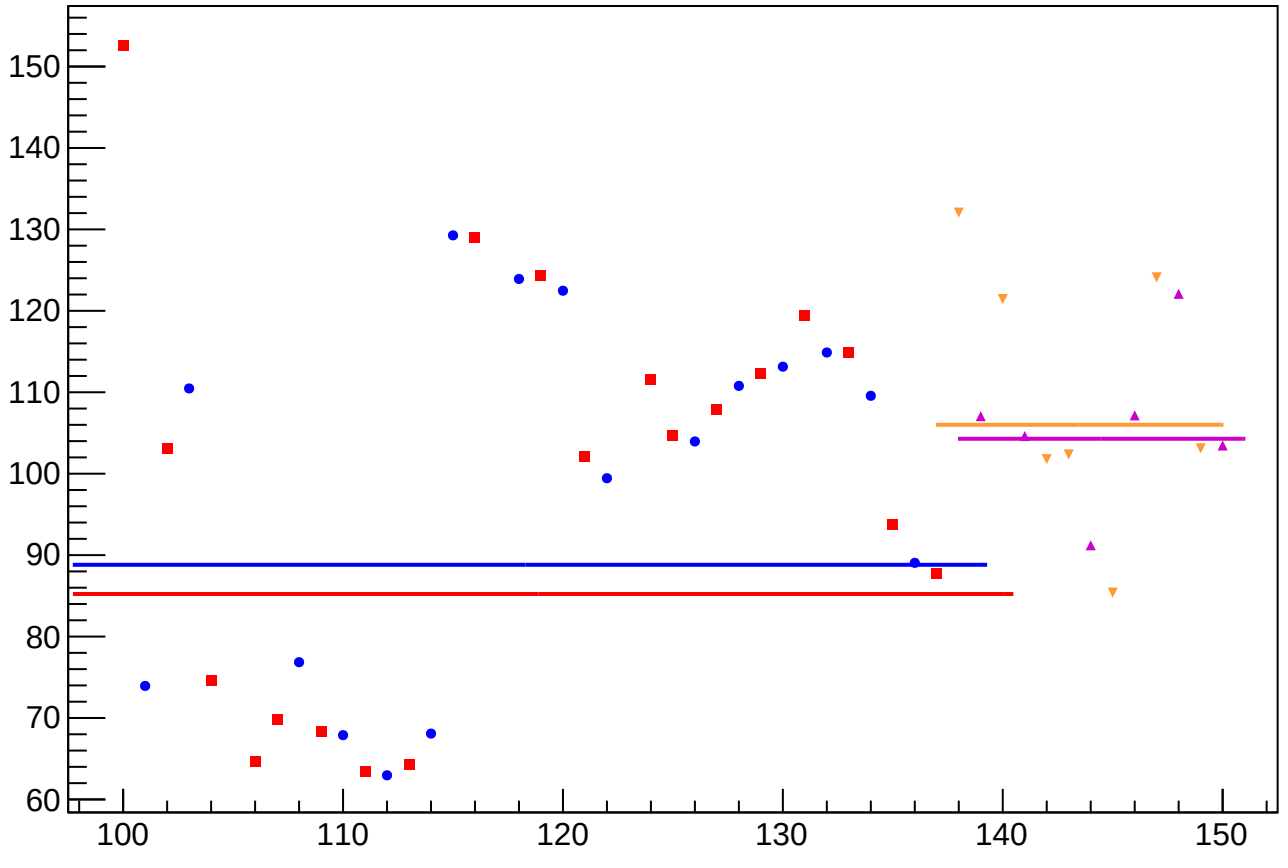
Left: 13.875+/-32.707 $\chi^2$/NDF: 11.4/12

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: 14.914+/-27.413 $\chi^2$/NDF:14.8/21

Out: 48.973+/-26.722 $\chi^2$/NDF:29.1/25

All: 32.378+/-19.135 $\chi^2$/NDF: 44.7/47




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.8/15

Left Out: 106.004+/-0.033 $\chi^2$/NDF:219087.9/6

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884071.4/18

Left In: 104.291+/-0.033 $\chi^2$/NDF:74095.8/5

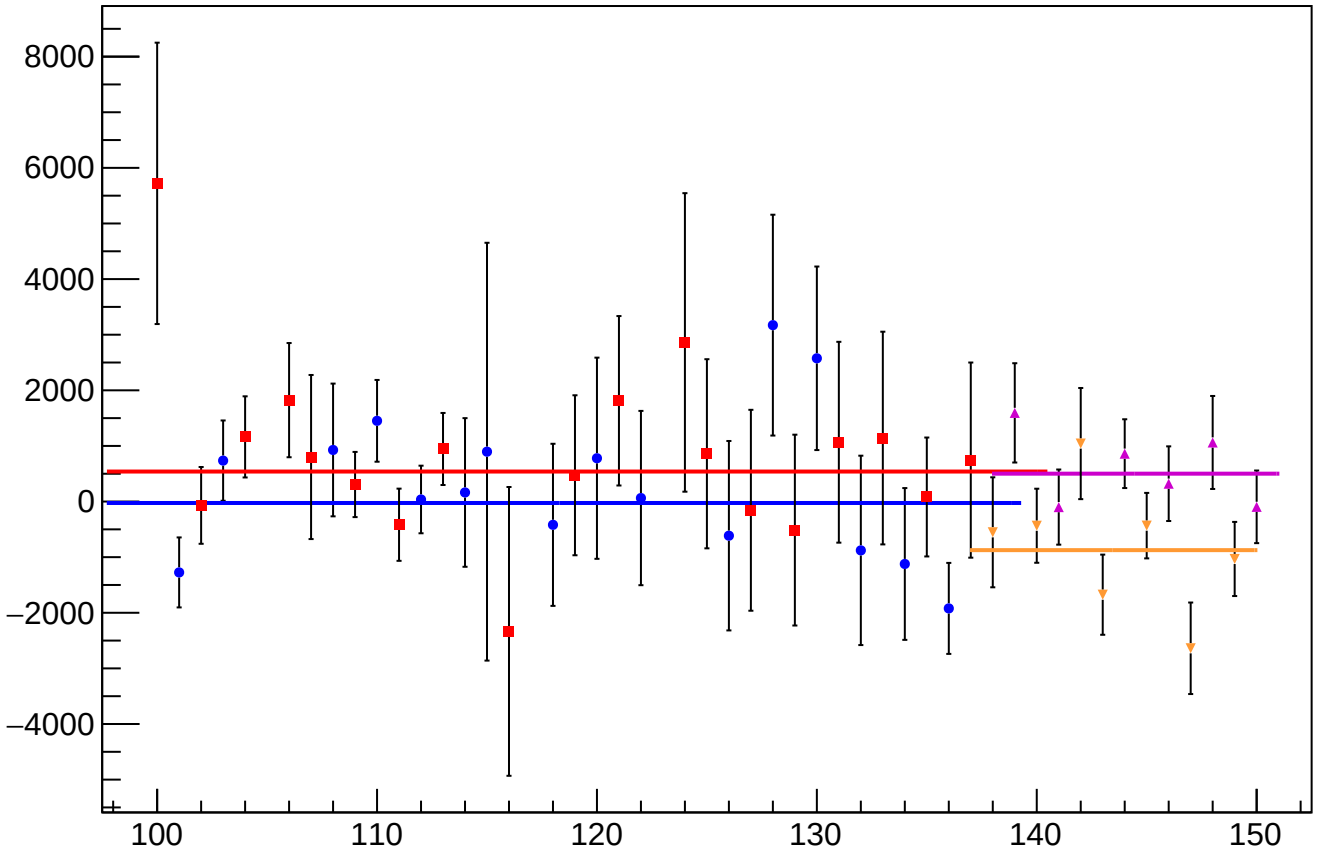
Left: 105.136+/-0.023 $\chi^2$/NDF: 294554.0/12

Right: 86.937+/-0.017 $\chi^2$/NDF: 1620225.0/34

In: 94.319+/-0.019 $\chi^2$/NDF:944827.5/21

Out: 92.071+/-0.019 $\chi^2$/NDF:1370325.7/25

All: 93.166+/-0.014 $\chi^2$/NDF: 2322052.9/47




Right In: -25.770+/-259.401 $\chi^2$/NDF: 21.6/15

Left Out: -873.735+/-279.315 $\chi^2$/NDF:10.7/6

Right Out: 539.635+/-241.238 $\chi^2$/NDF: 13.6/18

Left In: 501.283+/-287.996 $\chi^2$/NDF:4.0/5

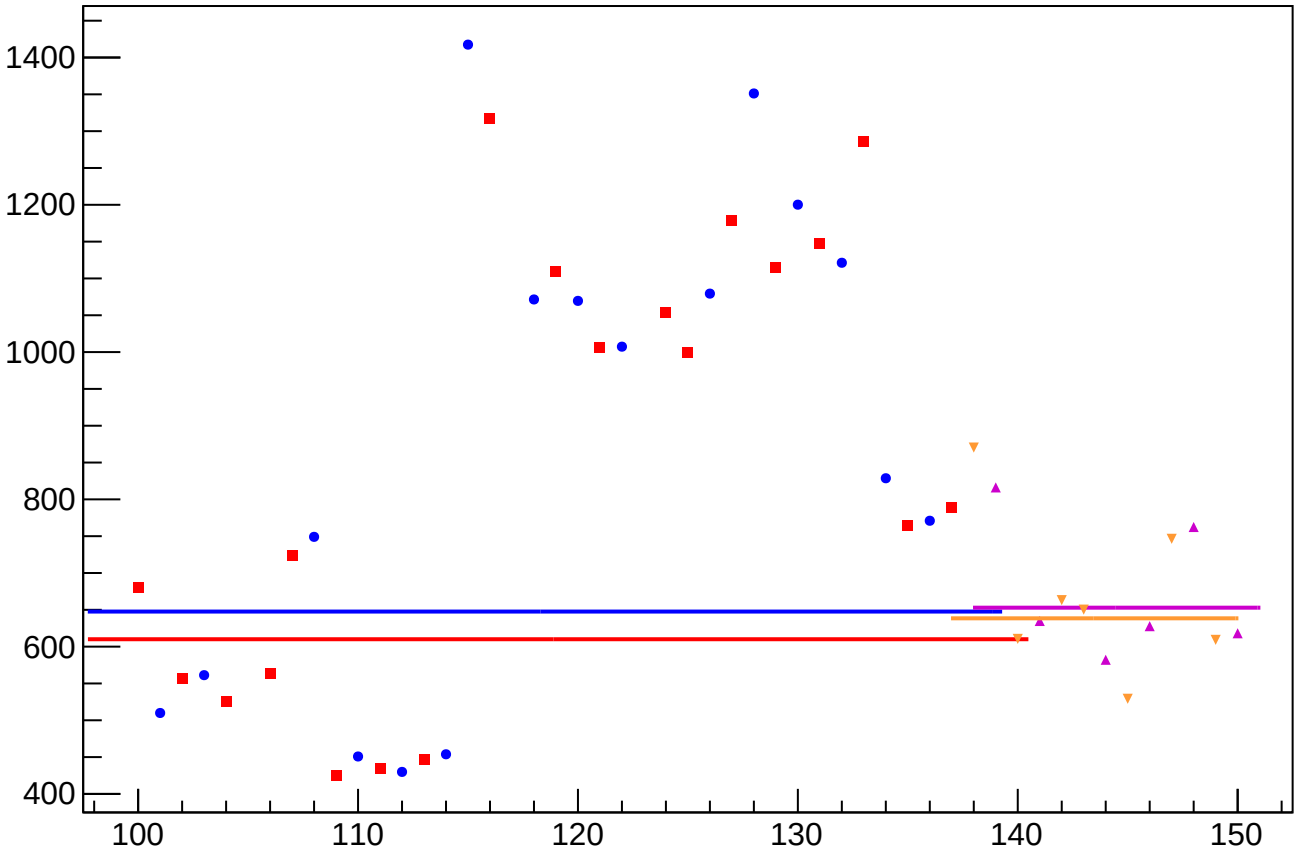
Left: -207.262+/-200.504 $\chi^2$/NDF: 26.4/12

Right: 277.418+/-176.654 $\chi^2$/NDF: 37.7/34

In: 210.299+/-192.743 $\chi^2$/NDF:27.4/21

Out: -64.216+/-182.571 $\chi^2$/NDF:39.0/25

All: 65.606+/-132.548 $\chi^2$/NDF: 67.4/47




Right In: 647.641+/-0.183 $\chi^2$/NDF: 1887815.9/15

Left Out: 638.455+/-0.198 $\chi^2$/NDF:222395.5/6

Right Out: 610.061+/-0.171 $\chi^2$/NDF: 2074248.2/18

Left In: 652.905+/-0.204 $\chi^2$/NDF:137340.6/5

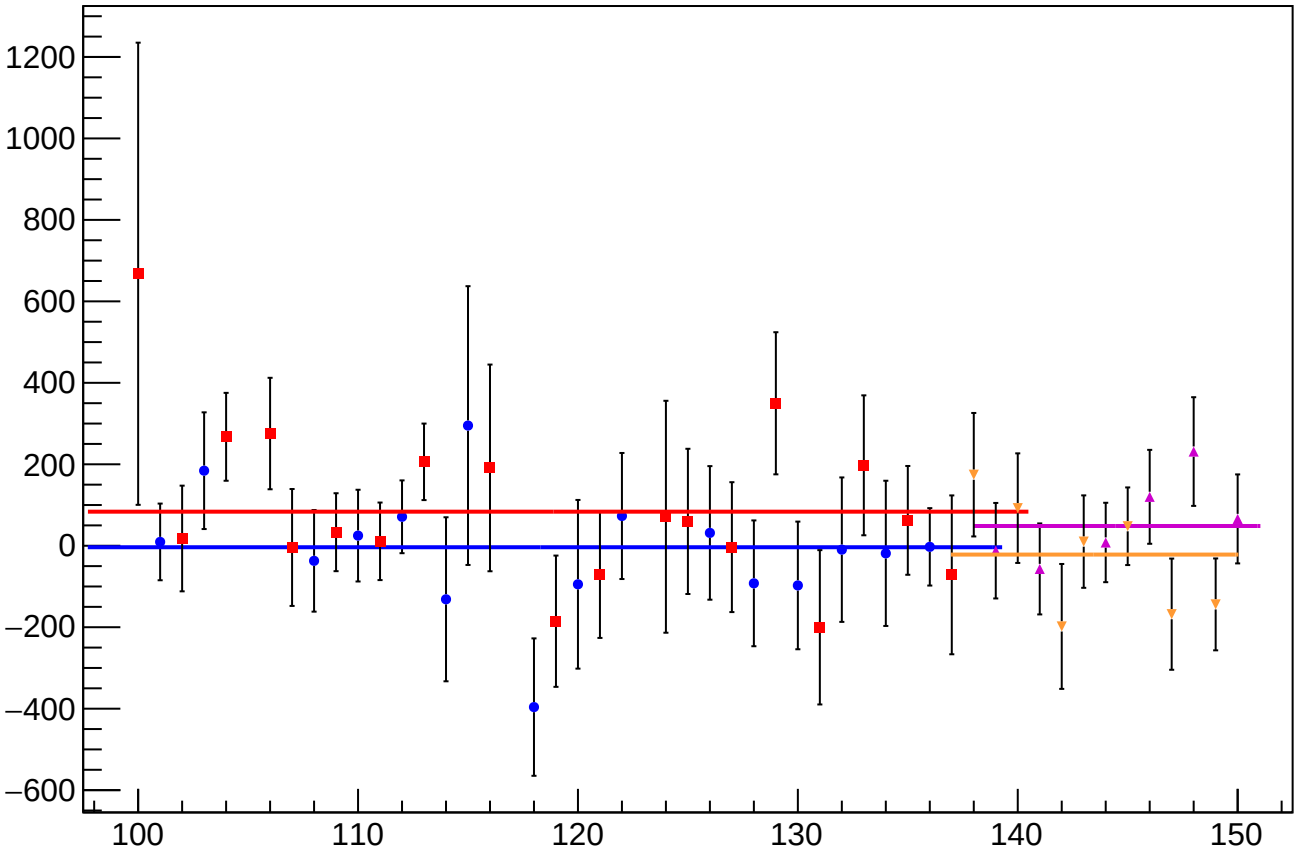
Left: 645.459+/-0.142 $\chi^2$/NDF: 362330.8/12

Right: 627.489+/-0.125 $\chi^2$/NDF: 3984572.9/34

In: 649.998+/-0.136 $\chi^2$/NDF:2025525.5/21

Out: 622.192+/-0.129 $\chi^2$/NDF:2308481.3/25

All: 635.342+/-0.094 $\chi^2$/NDF: 4355947.6/47




Right In: -3.633+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: -21.655+/-46.554 $\chi^2$/NDF:6.7/6

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: 48.509+/-45.962 $\chi^2$/NDF:3.6/5

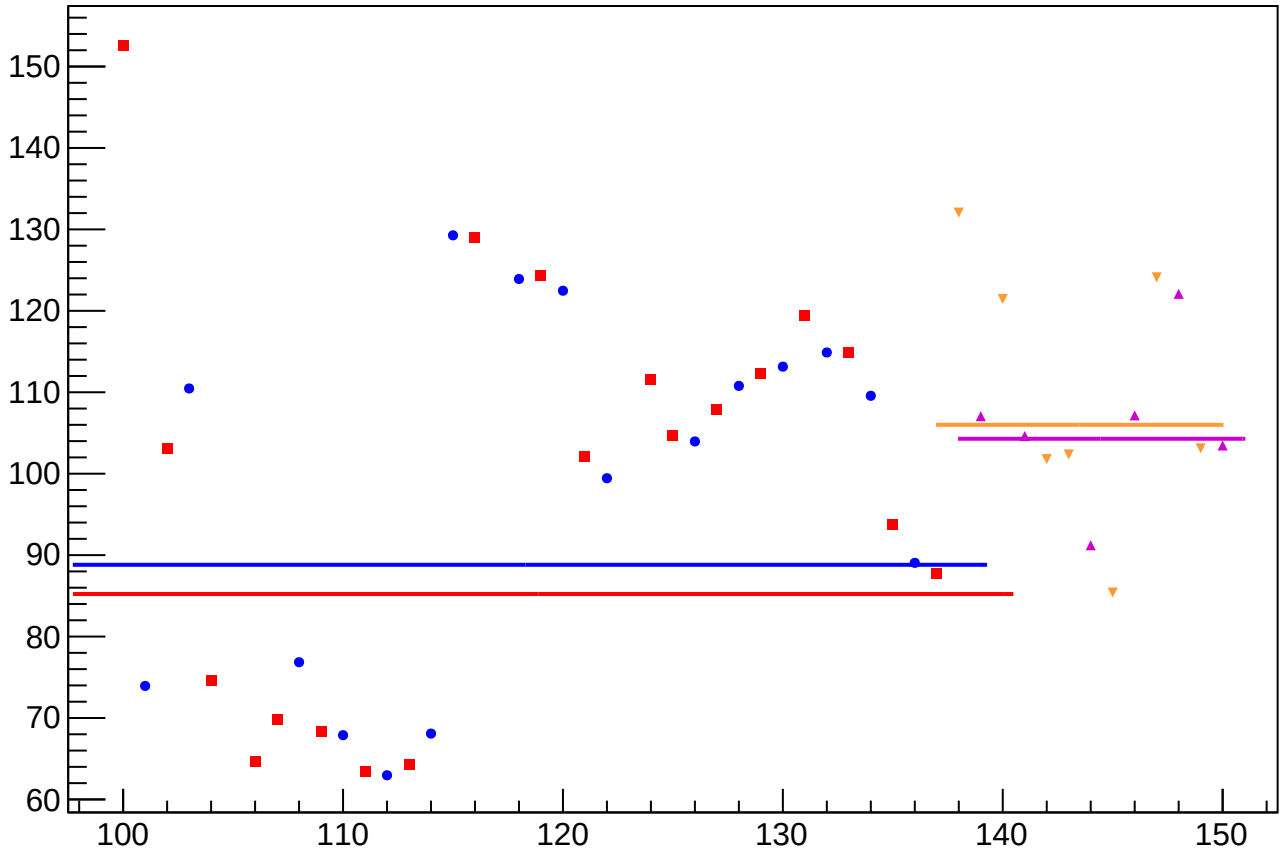
Left: 13.875+/-32.707 $\chi^2$/NDF: 11.4/12

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: 14.915+/-27.413 $\chi^2$/NDF:14.8/21

Out: 48.973+/-26.722 $\chi^2$/NDF:29.1/25

All: 32.379+/-19.135 $\chi^2$/NDF: 44.7/47




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.7/15

Left Out: 106.004+/-0.033 $\chi^2$/NDF:219086.4/6

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884073.3/18

Left In: 104.291+/-0.033 $\chi^2$/NDF:74095.7/5

Left: 105.137+/-0.023 $\chi^2$/NDF: 294552.4/12

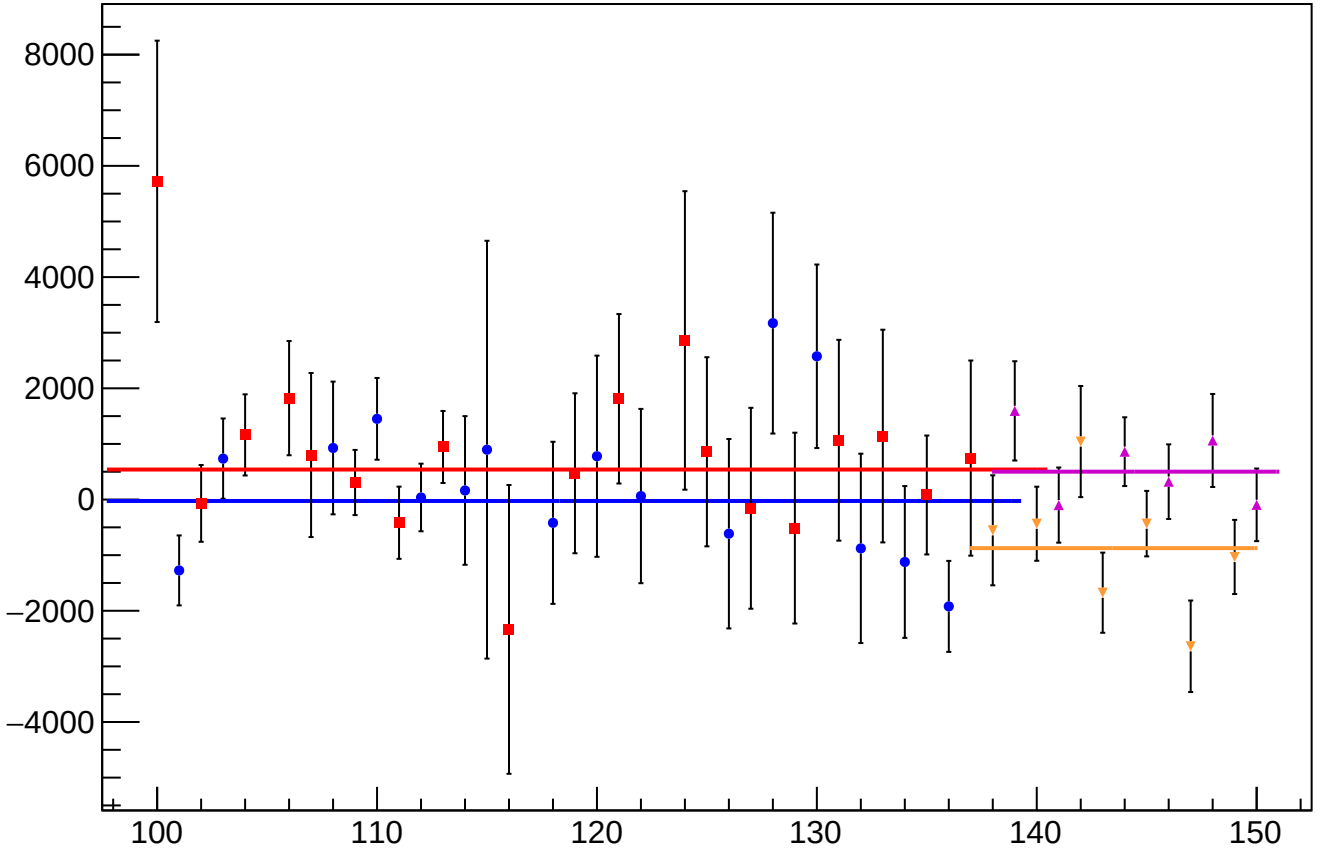
Right: 86.937+/-0.017 $\chi^2$/NDF: 1620226.9/34

In: 94.319+/-0.019 $\chi^2$/NDF:944832.4/21

Out: 92.071+/-0.019 $\chi^2$/NDF:1370333.0/25

All: 93.166+/-0.014 $\chi^2$/NDF: 2322065.4/47

asym_sam_1548_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -25.770+/-259.401 $\chi^2$/NDF: 21.6/15

Left Out: -873.735+/-279.315 $\chi^2$/NDF:10.7/6

Right Out: 539.635+/-241.238 $\chi^2$/NDF: 13.6/18

Left In: 501.283+/-287.996 $\chi^2$/NDF:4.0/5

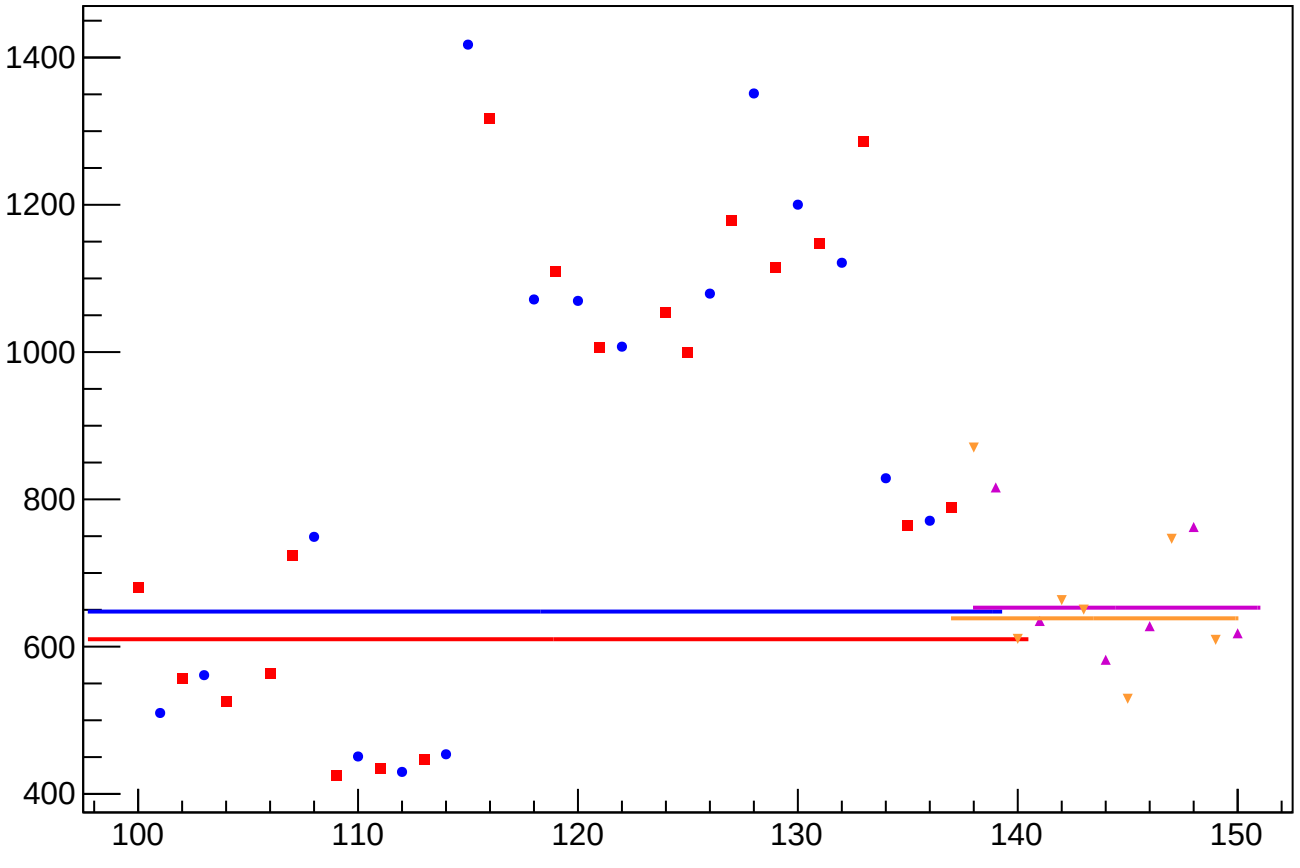
Left: -207.262+/-200.504 $\chi^2$/NDF: 26.4/12

Right: 277.418+/-176.653 $\chi^2$/NDF: 37.7/34

In: 210.299+/-192.743 $\chi^2$/NDF:27.4/21

Out: -64.216+/-182.571 $\chi^2$/NDF:39.0/25

All: 65.606+/-132.547 $\chi^2$/NDF: 67.4/47




Right In: 647.640+/-0.183 $\chi^2$/NDF: 1887820.6/15

Left Out: 638.454+/-0.198 $\chi^2$/NDF:222397.2/6

Right Out: 610.060+/-0.171 $\chi^2$/NDF: 2074251.1/18

Left In: 652.905+/-0.204 $\chi^2$/NDF:137341.0/5

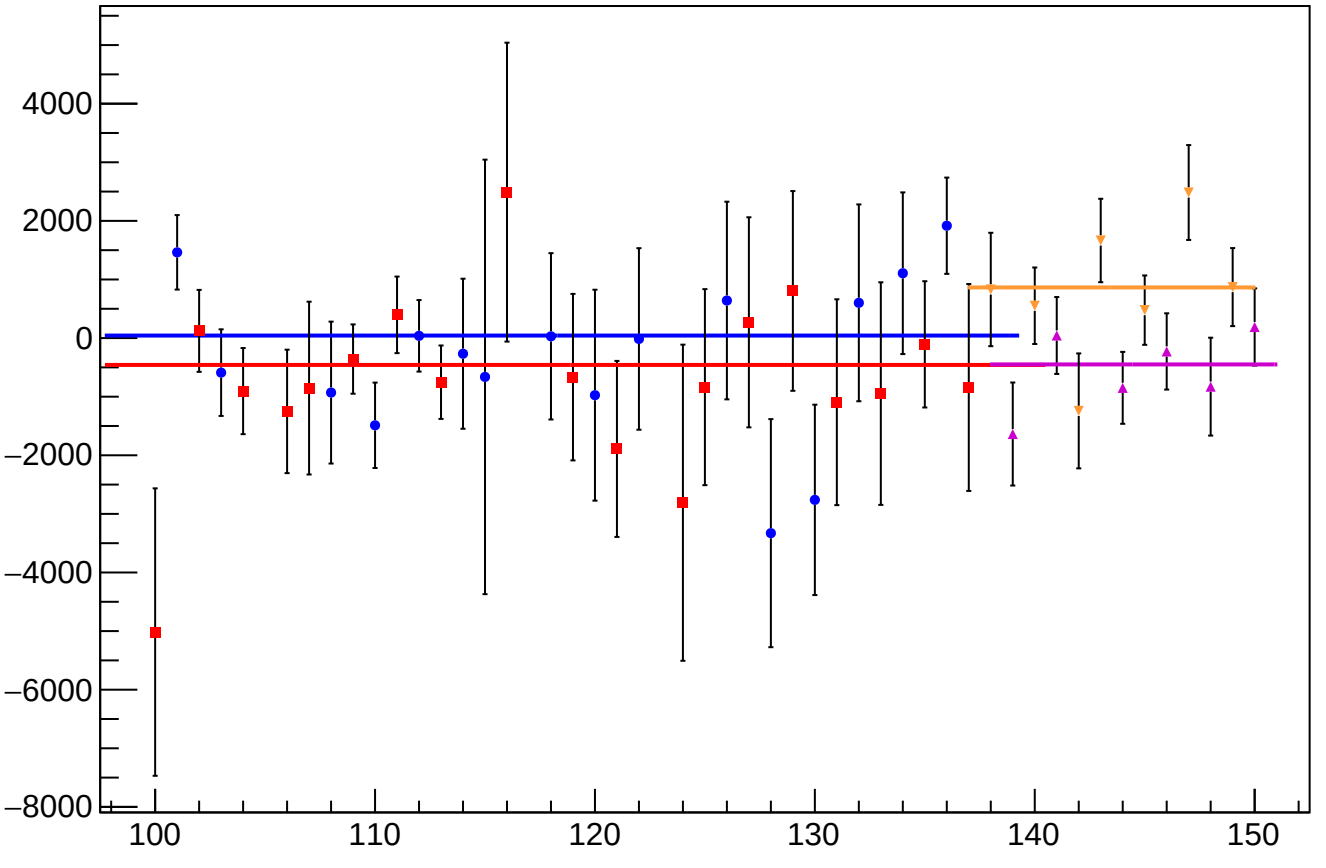
Left: 645.458+/-0.142 $\chi^2$/NDF: 362332.9/12

Right: 627.488+/-0.125 $\chi^2$/NDF: 3984580.5/34

In: 649.998+/-0.136 $\chi^2$/NDF:2025530.6/21

Out: 622.191+/-0.129 $\chi^2$/NDF:2308486.2/25

All: 635.341+/-0.094 $\chi^2$/NDF: 4355958.0/47




Right In: 43.152+/-259.796 $\chi^2$/NDF: 23.2/15

Left Out: 864.124+/-276.644 $\chi^2$/NDF:10.5/6

Right Out: -458.111+/-241.118 $\chi^2$/NDF: 11.3/18

Left In: -449.475+/-284.283 $\chi^2$/NDF:4.1/5

Left: 225.211+/-198.262 $\chi^2$/NDF: 25.6/12

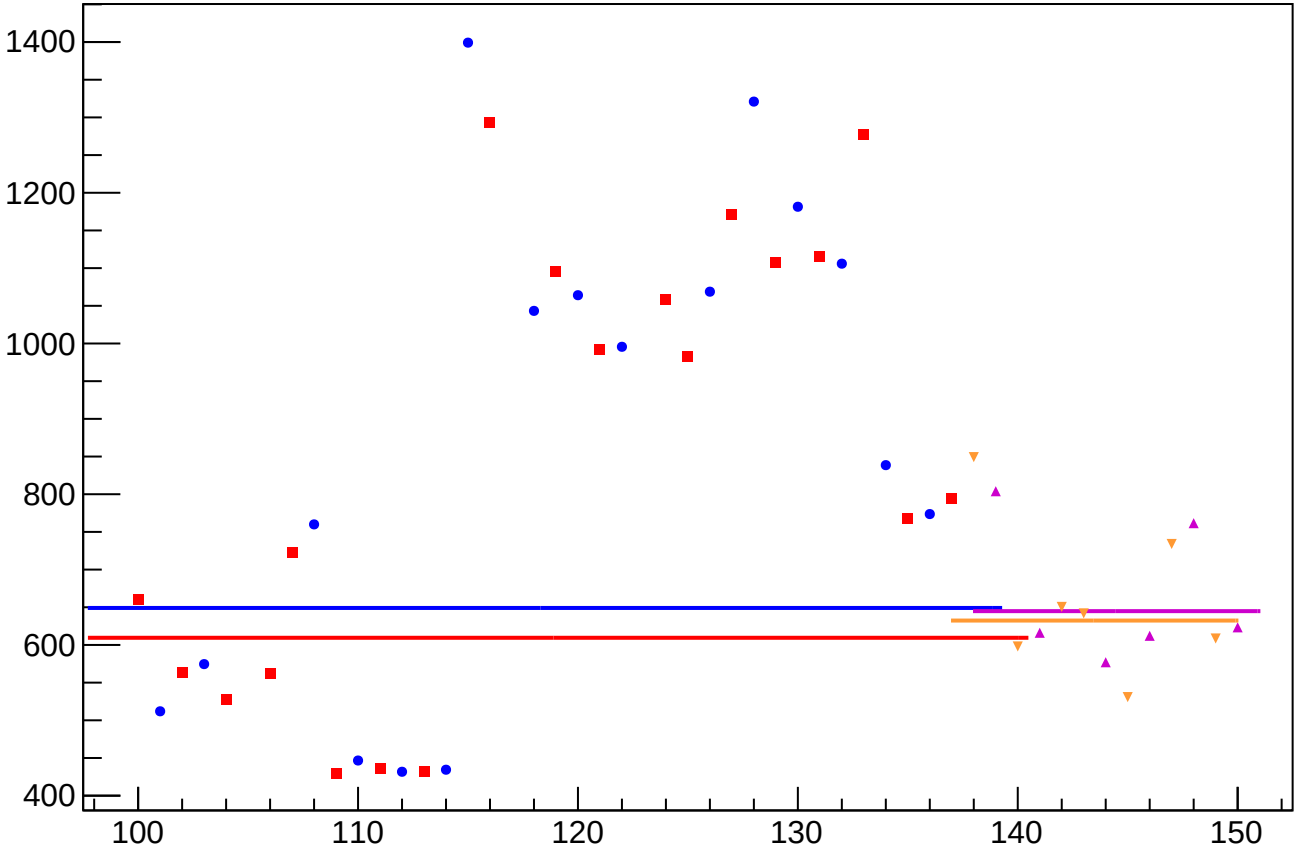
Right: -226.145+/-176.731 $\chi^2$/NDF: 36.5/34

In: -181.035+/-191.777 $\chi^2$/NDF:28.9/21

Out: 112.707+/-181.767 $\chi^2$/NDF:34.8/25

All: -26.298+/-131.926 $\chi^2$/NDF: 65.0/47

# asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 649.091+/-0.184 $\chi^2$/NDF: 1845815.6/15

Left Out: 632.369+/-0.196 $\chi^2$/NDF:200117.4/6

Right Out: 609.516+/-0.170 $\chi^2$/NDF: 2043591.1/18

Left In: 644.854+/-0.201 $\chi^2$/NDF:140035.9/5

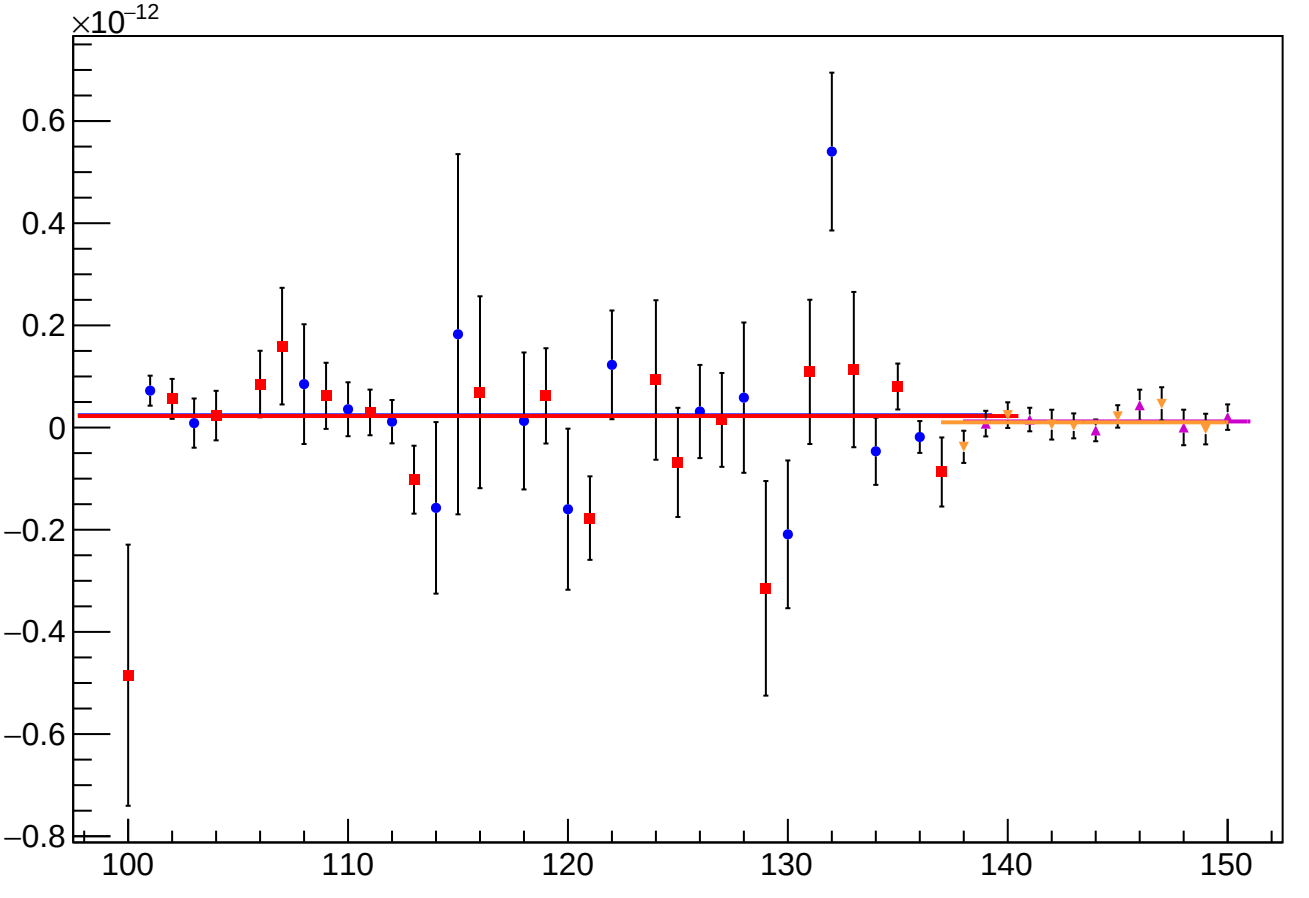
Left: 638.442+/-0.140 $\chi^2$/NDF: 342134.6/12

Right: 627.830+/-0.125 $\chi^2$/NDF: 3914338.8/34

In: 647.163+/-0.136 $\chi^2$/NDF:1986093.5/21

Out: 619.382+/-0.129 $\chi^2$/NDF:2251464.8/25

All: 632.529+/-0.093 $\chi^2$/NDF: 4259666.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.1/5

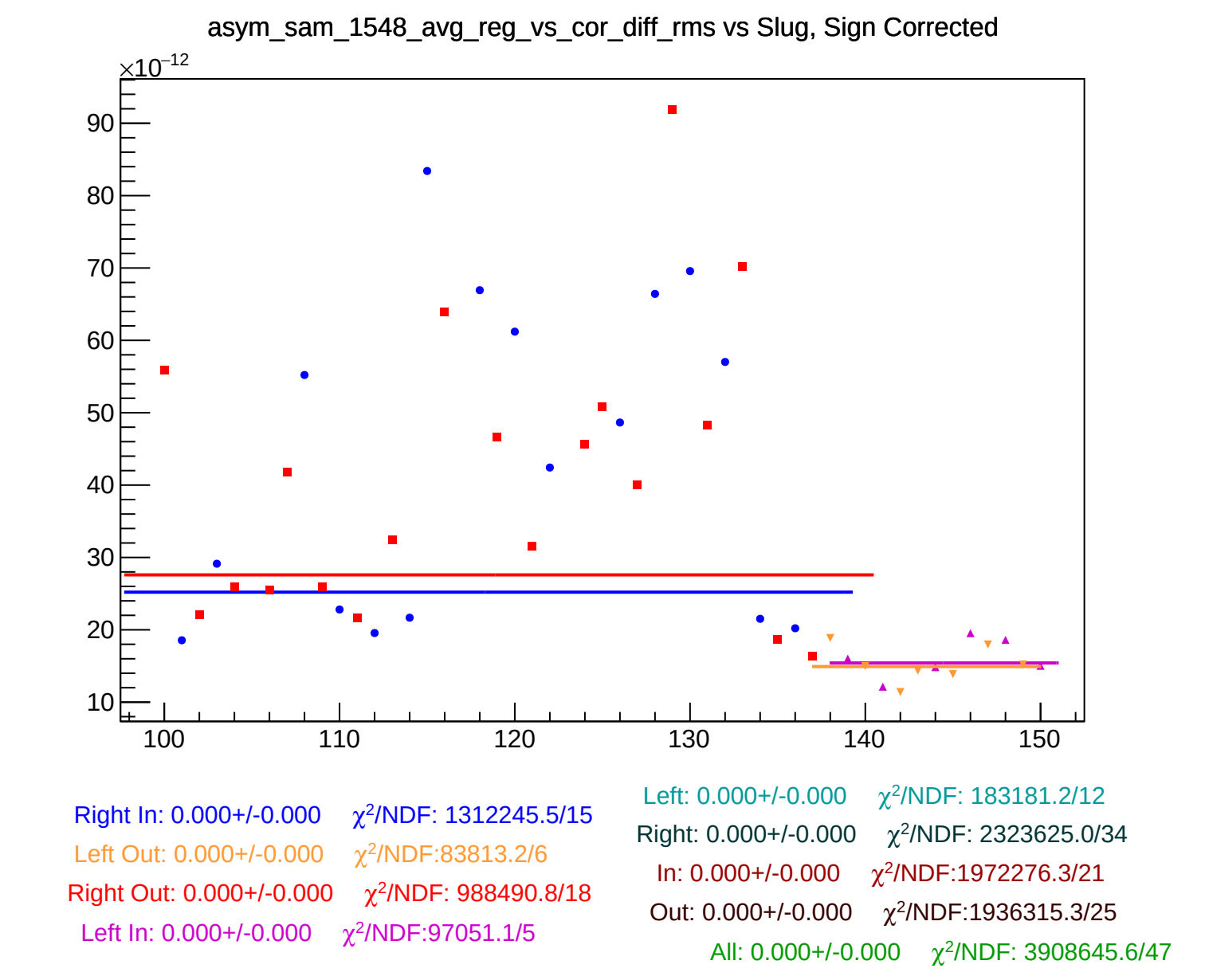
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 49.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:30.5/25

All: 0.000+/-0.000 $\chi^2$/NDF: 56.6/47


asym_sam_1548_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
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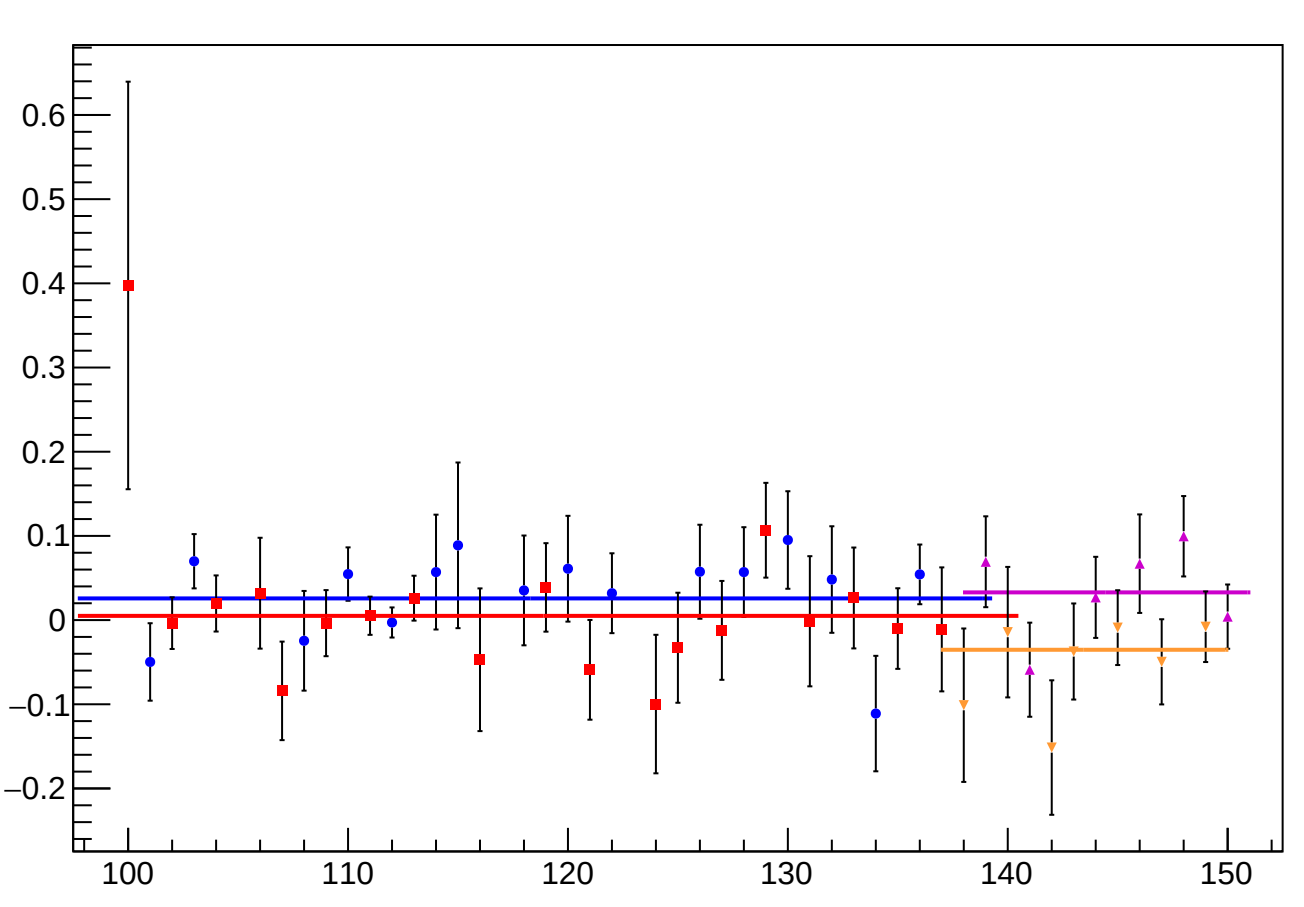
Right In: 0.000+/-0.000 χ²/NDF: 1312245.5/15
Left Out: 0.000+/-0.000 χ²/NDF:83813.2/6
Right Out: 0.000+/-0.000 χ²/NDF: 988490.8/18
Left In: 0.000+/-0.000 χ²/NDF:97051.1/5
Left: 0.000+/-0.000 χ²/NDF: 183181.2/12
Right: 0.000+/-0.000 χ²/NDF: 2323625.0/34
In: 0.000+/-0.000 χ²/NDF:1972276.3/21
Out: 0.000+/-0.000 χ²/NDF:1936315.3/25
All: 0.000+/-0.000 χ²/NDF: 3908645.6/47




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.035+/-0.021 $\chi^2$/NDF:3.6/6

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.033+/-0.020 $\chi^2$/NDF:6.0/5

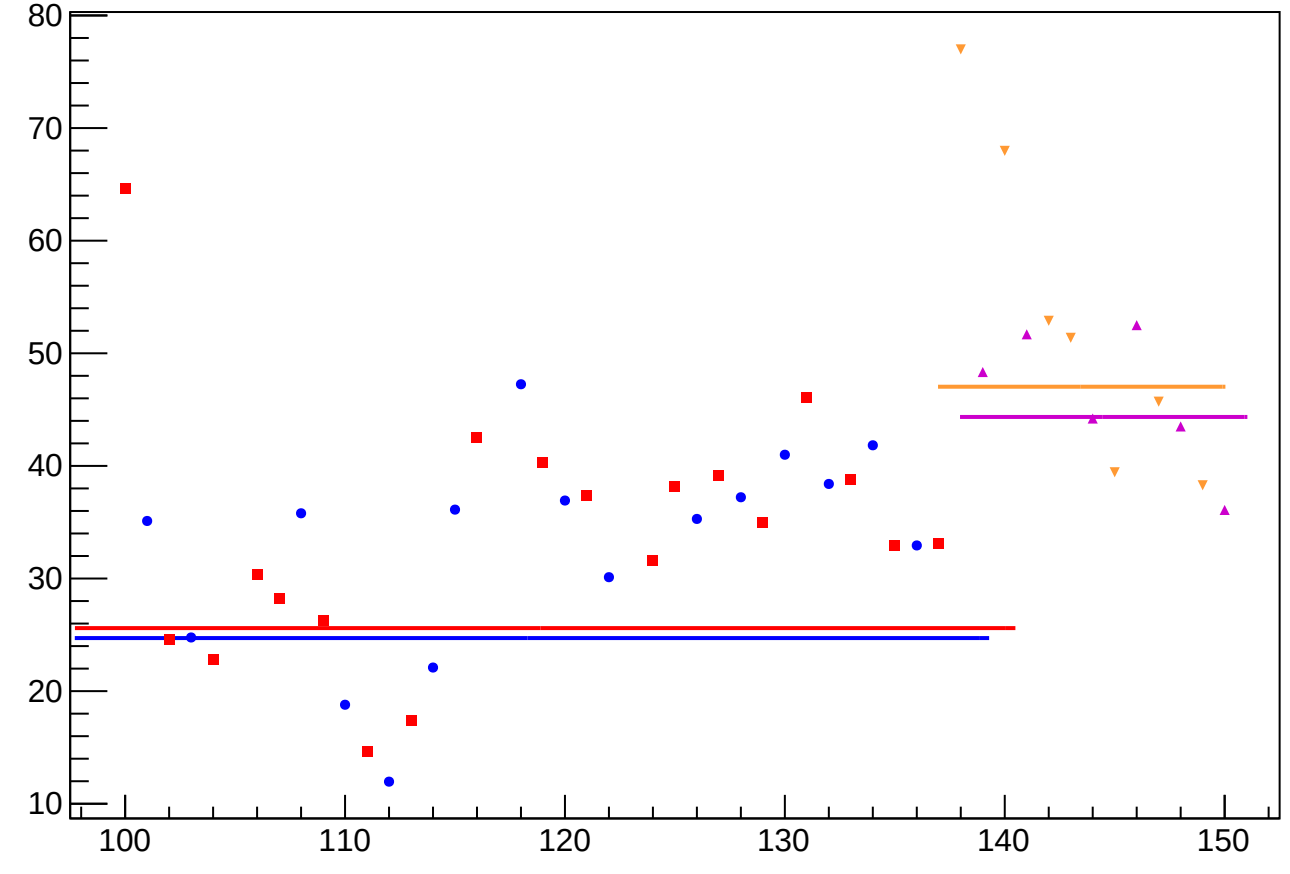
Left: 0.001+/-0.015 $\chi^2$/NDF: 15.1/12

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.027+/-0.009 $\chi^2$/NDF:22.6/21

Out: -0.003+/-0.009 $\chi^2$/NDF:20.1/25

All: 0.012+/-0.007 $\chi^2$/NDF: 48.0/47




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295174.7/15

Left Out: 47.032+/-0.015 $\chi^2$/NDF:531441.9/6

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605235.8/18

Left In: 44.347+/-0.014 $\chi^2$/NDF:178543.5/5

Left: 45.606+/-0.010 $\chi^2$/NDF: 726958.8/12

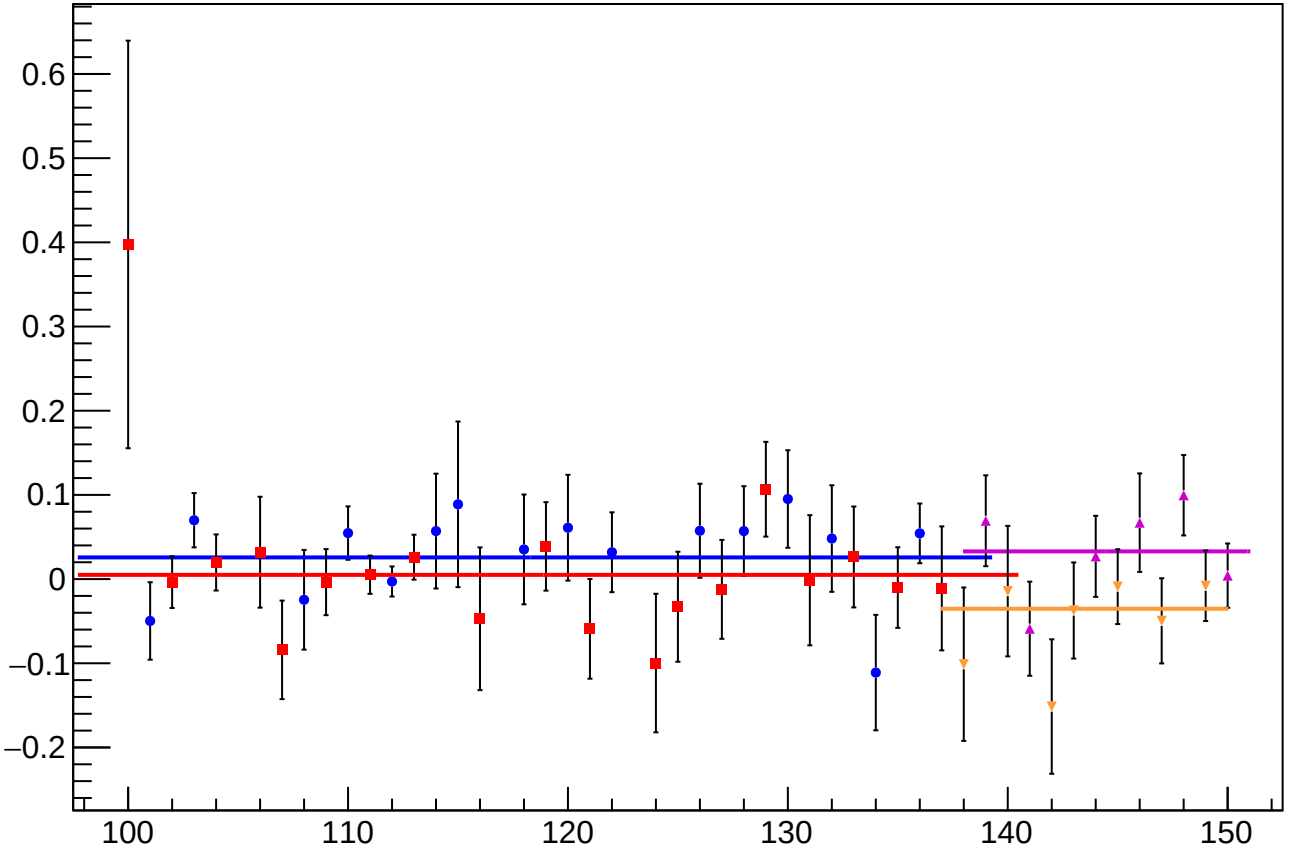
Right: 25.155+/-0.005 $\chi^2$/NDF: 3907717.2/34

In: 28.880+/-0.006 $\chi^2$/NDF:3999648.4/21

Out: 29.709+/-0.007 $\chi^2$/NDF:3782942.0/25

All: 29.290+/-0.005 $\chi^2$/NDF: 7790631.0/47

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.035+/-0.021 $\chi^2$/NDF:3.6/6

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.033+/-0.020 $\chi^2$/NDF:6.0/5

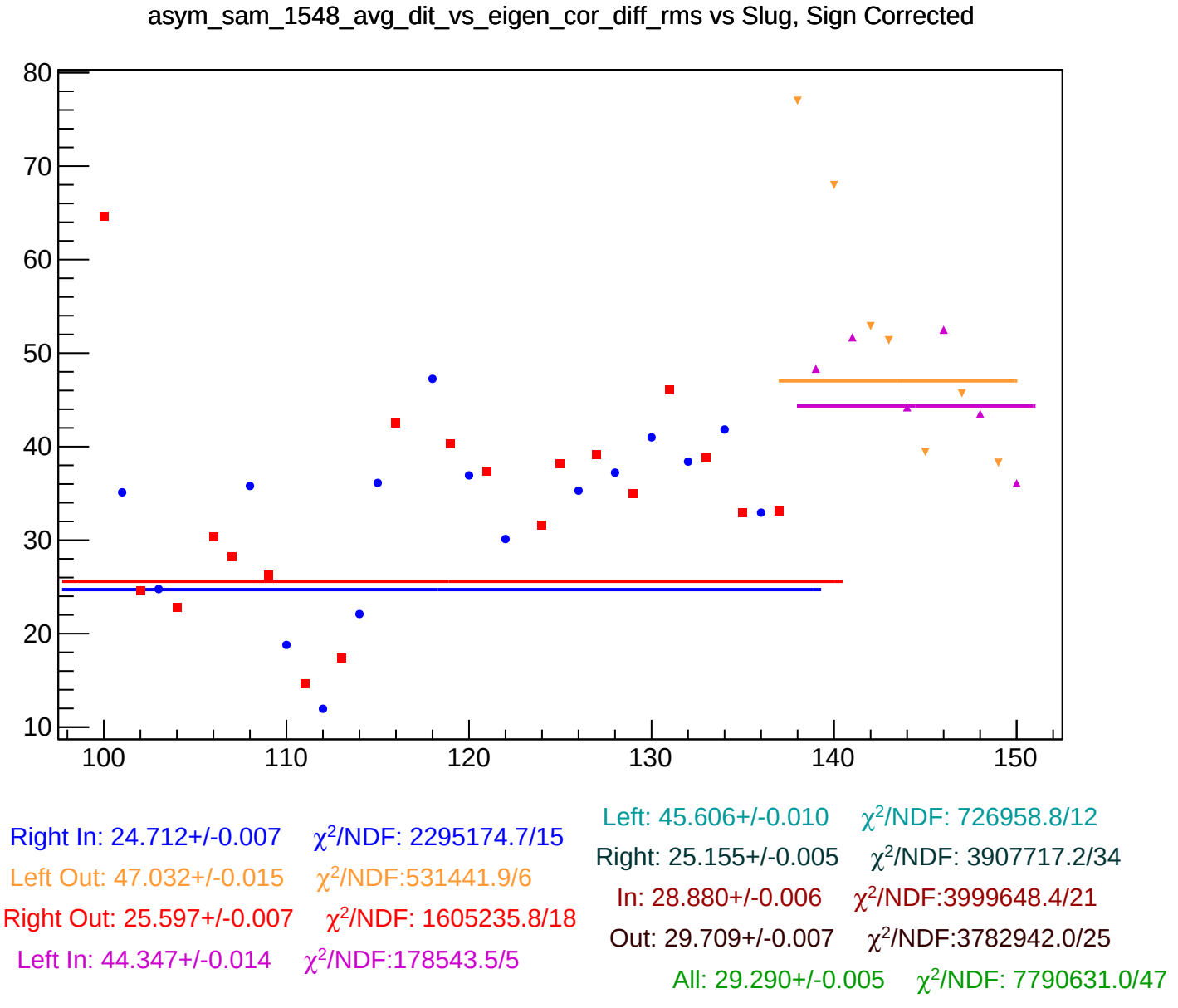
Left: 0.001+/-0.015 $\chi^2$/NDF: 15.1/12

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.027+/-0.009 $\chi^2$/NDF:22.6/21

Out: -0.003+/-0.009 $\chi^2$/NDF:20.1/25

All: 0.012+/-0.007 $\chi^2$/NDF: 48.0/47


asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
80
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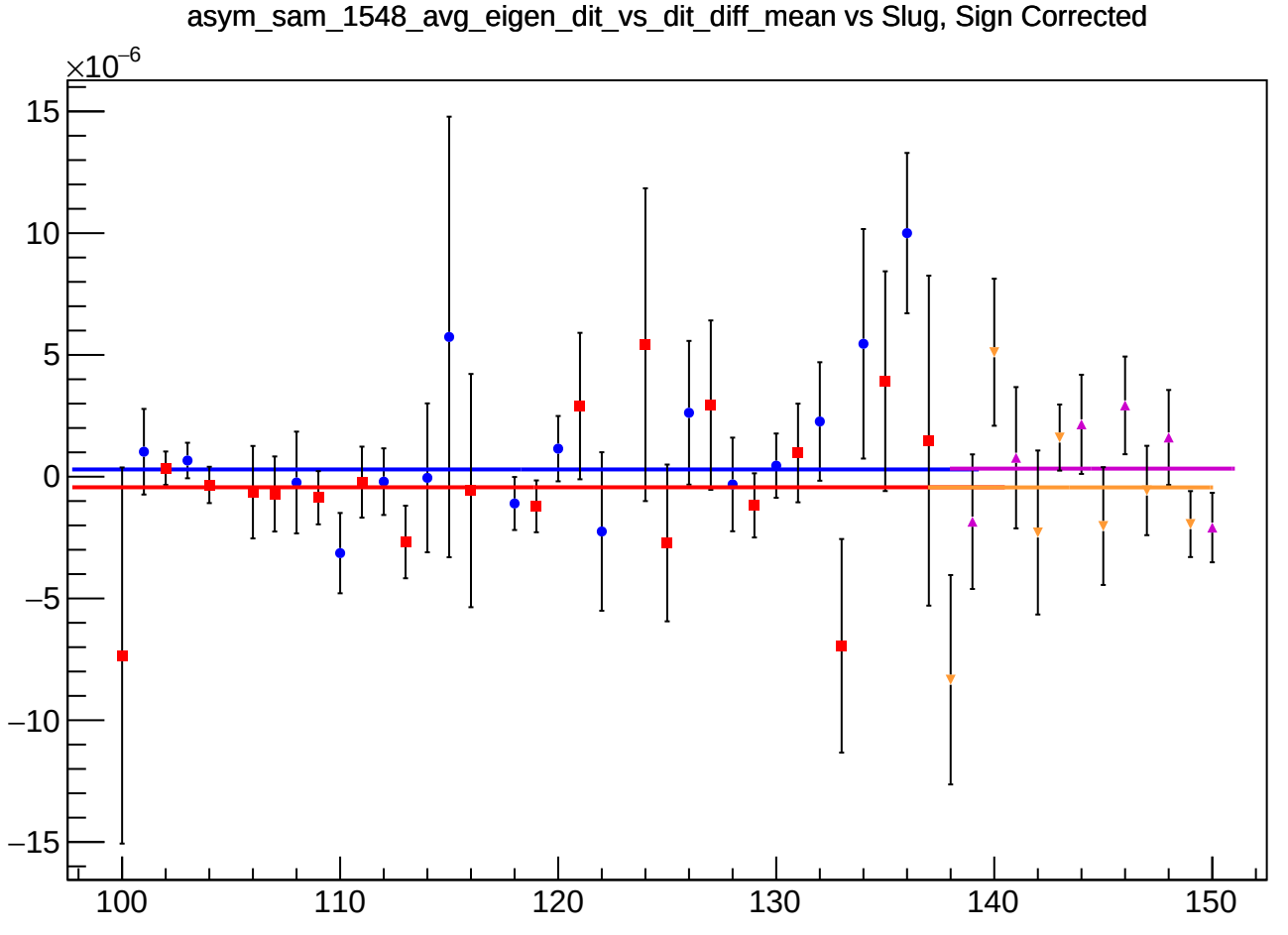
Right In: 24.712+/-0.007 χ²/NDF: 2295174.7/15
Left Out: 47.032+/-0.015 χ²/NDF:531441.9/6
Right Out: 25.597+/-0.007 χ²/NDF: 1605235.8/18
Left In: 44.347+/-0.014 χ²/NDF:178543.5/5
Left: 45.606+/-0.010 χ²/NDF: 726958.8/12
Right: 25.155+/-0.005 χ²/NDF: 3907717.2/34
In: 28.880+/-0.006 χ²/NDF:3999648.4/21
Out: 29.709+/-0.007 χ²/NDF:3782942.0/25
All: 29.290+/-0.005 χ²/NDF: 7790631.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.4/5

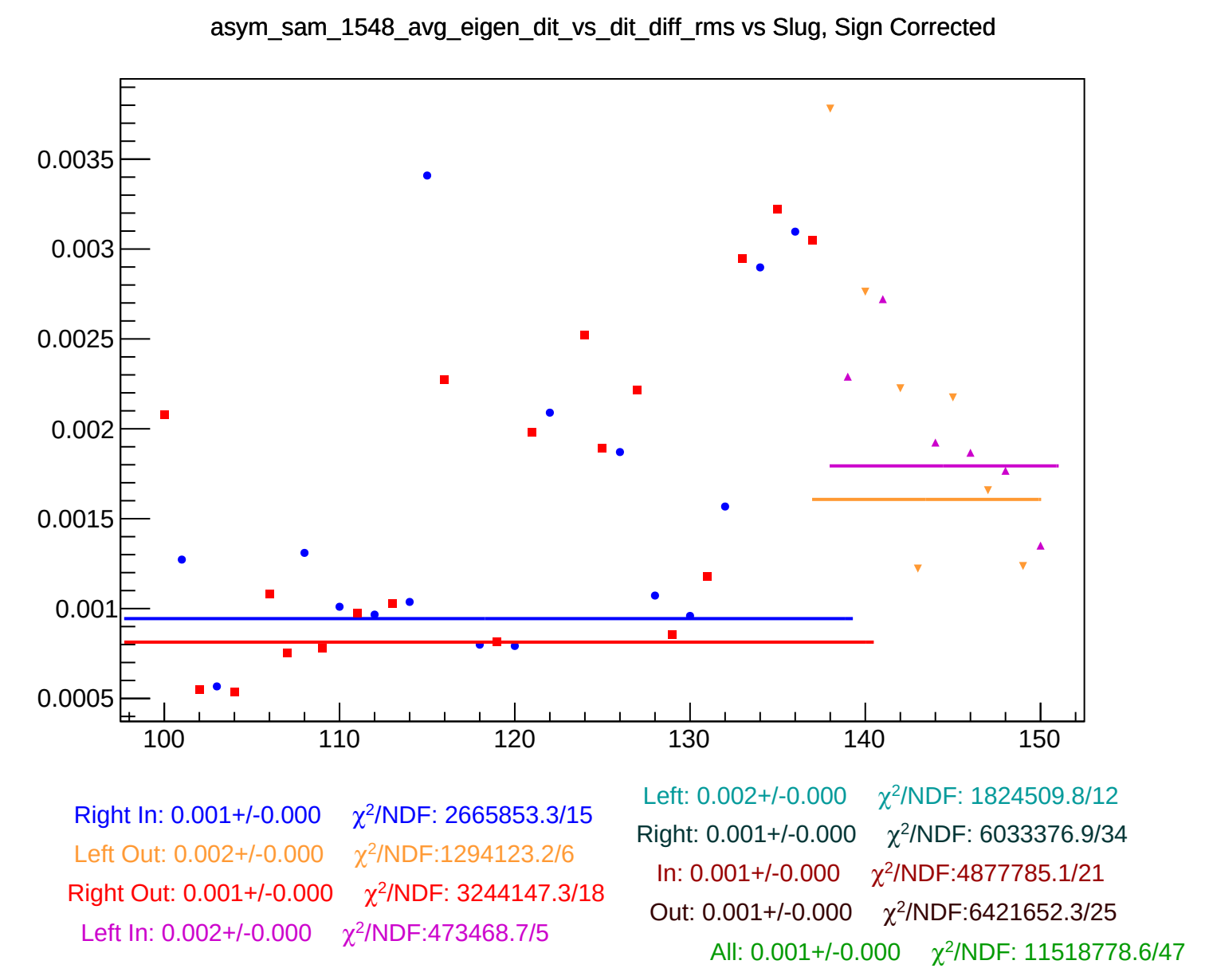
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.9/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 51.9/47


asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0035
0.003
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0.0015
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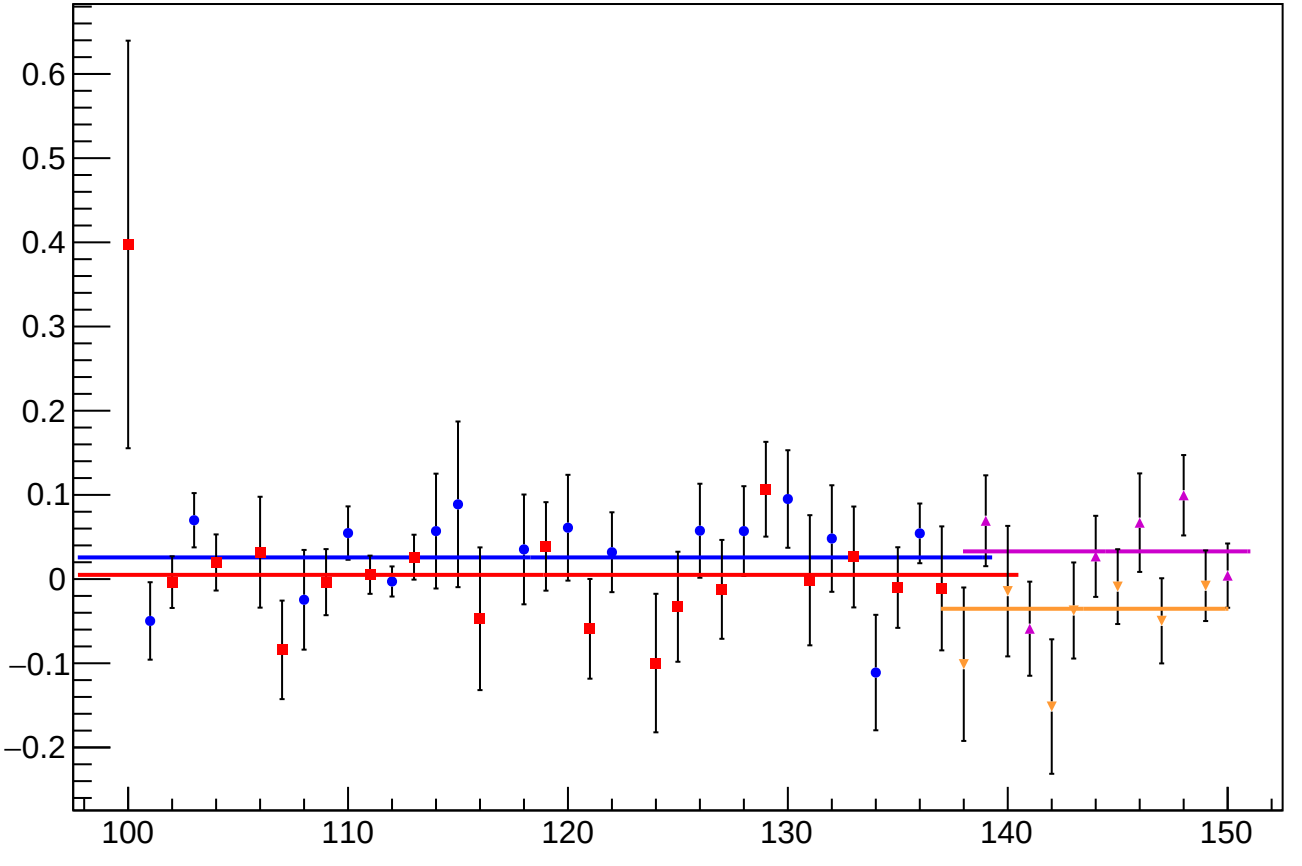
Right In: 0.001+/-0.000 χ²/NDF: 2665853.3/15
Left Out: 0.002+/-0.000 χ²/NDF:1294123.2/6
Right Out: 0.001+/-0.000 χ²/NDF: 3244147.3/18
Left In: 0.002+/-0.000 χ²/NDF:473468.7/5
Left: 0.002+/-0.000 χ²/NDF: 1824509.8/12
Right: 0.001+/-0.000 χ²/NDF: 6033376.9/34
In: 0.001+/-0.000 χ²/NDF:4877785.1/21
Out: 0.001+/-0.000 χ²/NDF:6421652.3/25
All: 0.001+/-0.000 χ²/NDF: 11518778.6/47

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.035+/-0.021 $\chi^2$/NDF:3.6/6

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.033+/-0.020 $\chi^2$/NDF:6.0/5

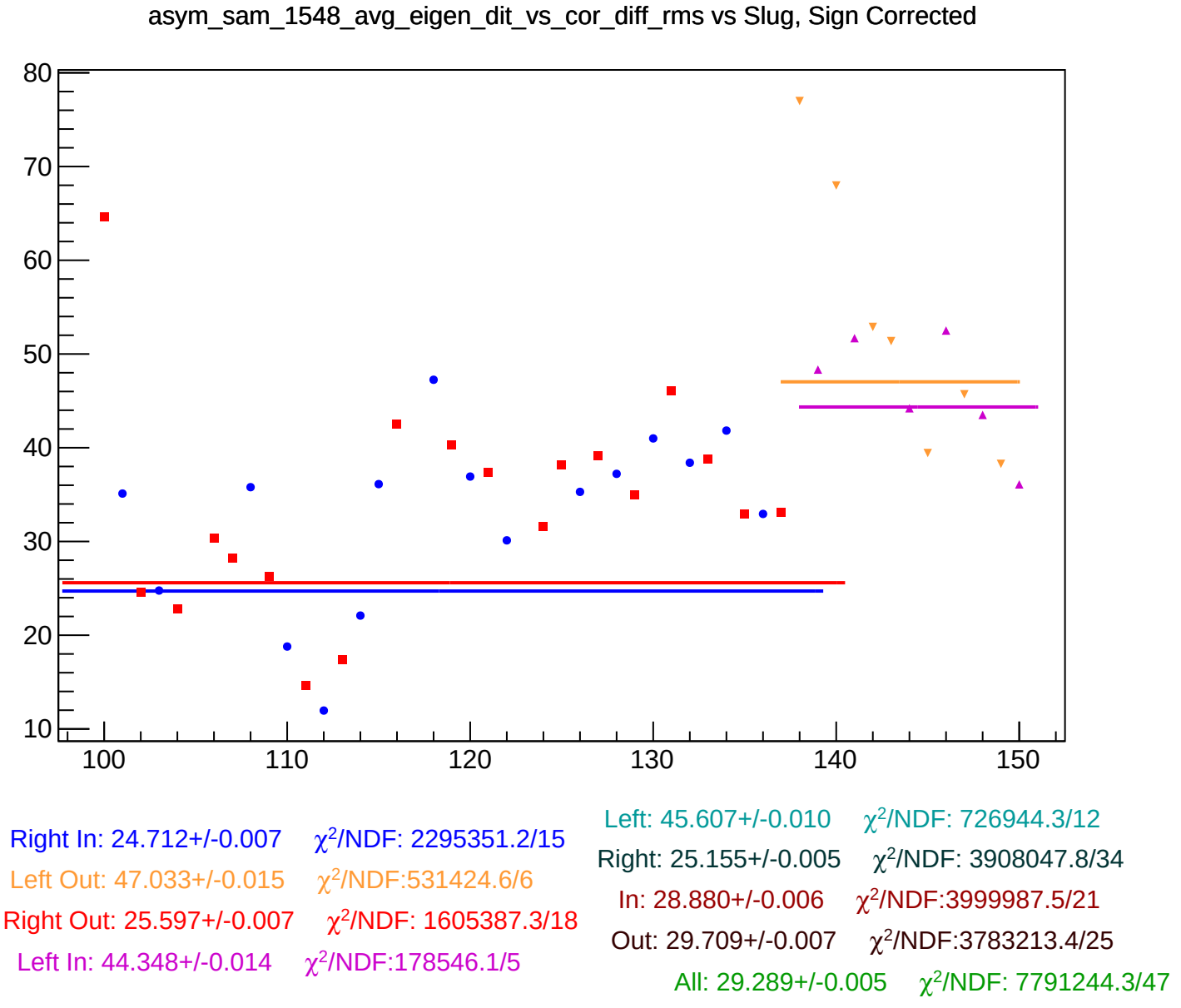
Left: 0.001+/-0.015 $\chi^2$/NDF: 15.1/12

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.027+/-0.009 $\chi^2$/NDF:22.6/21

Out: -0.003+/-0.009 $\chi^2$/NDF:20.1/25

All: 0.012+/-0.007 $\chi^2$/NDF: 48.0/47


asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
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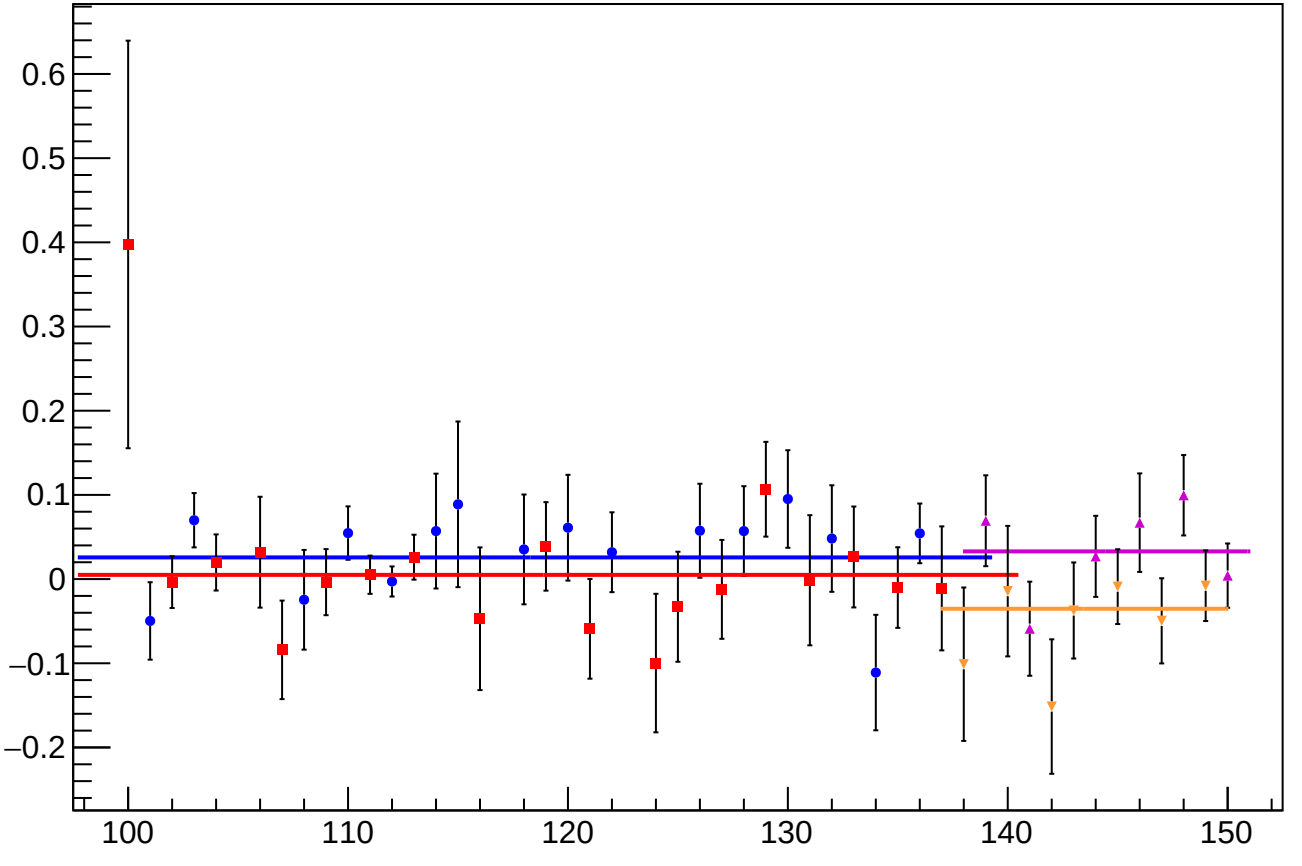
Right In: 24.712+/-0.007 χ2/NDF: 2295351.2/15
Left Out: 47.033+/-0.015 χ2/NDF:531424.6/6
Right Out: 25.597+/-0.007 χ2/NDF: 1605387.3/18
Left In: 44.348+/-0.014 χ2/NDF:178546.1/5
Left: 45.607+/-0.010 χ2/NDF: 726944.3/12
Right: 25.155+/-0.005 χ2/NDF: 3908047.8/34
In: 28.880+/-0.006 χ2/NDF:3999987.5/21
Out: 29.709+/-0.007 χ2/NDF:3783213.4/25
All: 29.289+/-0.005 χ2/NDF: 7791244.3/47

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.035+/-0.021 $\chi^2$/NDF:3.6/6

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.033+/-0.020 $\chi^2$/NDF:6.0/5

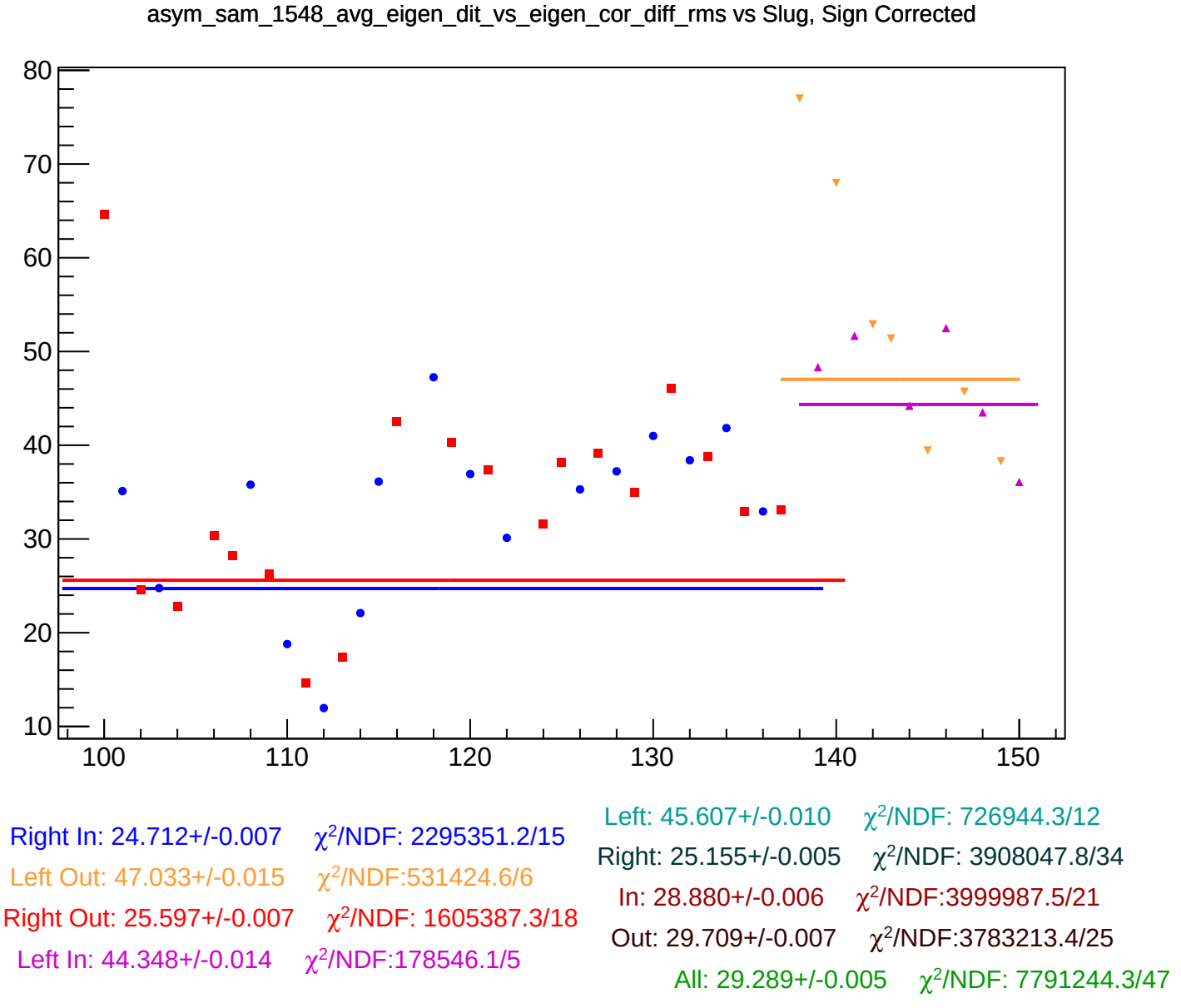
Left: 0.001+/-0.015 $\chi^2$/NDF: 15.1/12

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.027+/-0.009 $\chi^2$/NDF:22.6/21

Out: -0.003+/-0.009 $\chi^2$/NDF:20.1/25

All: 0.012+/-0.007 $\chi^2$/NDF: 48.0/47


asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
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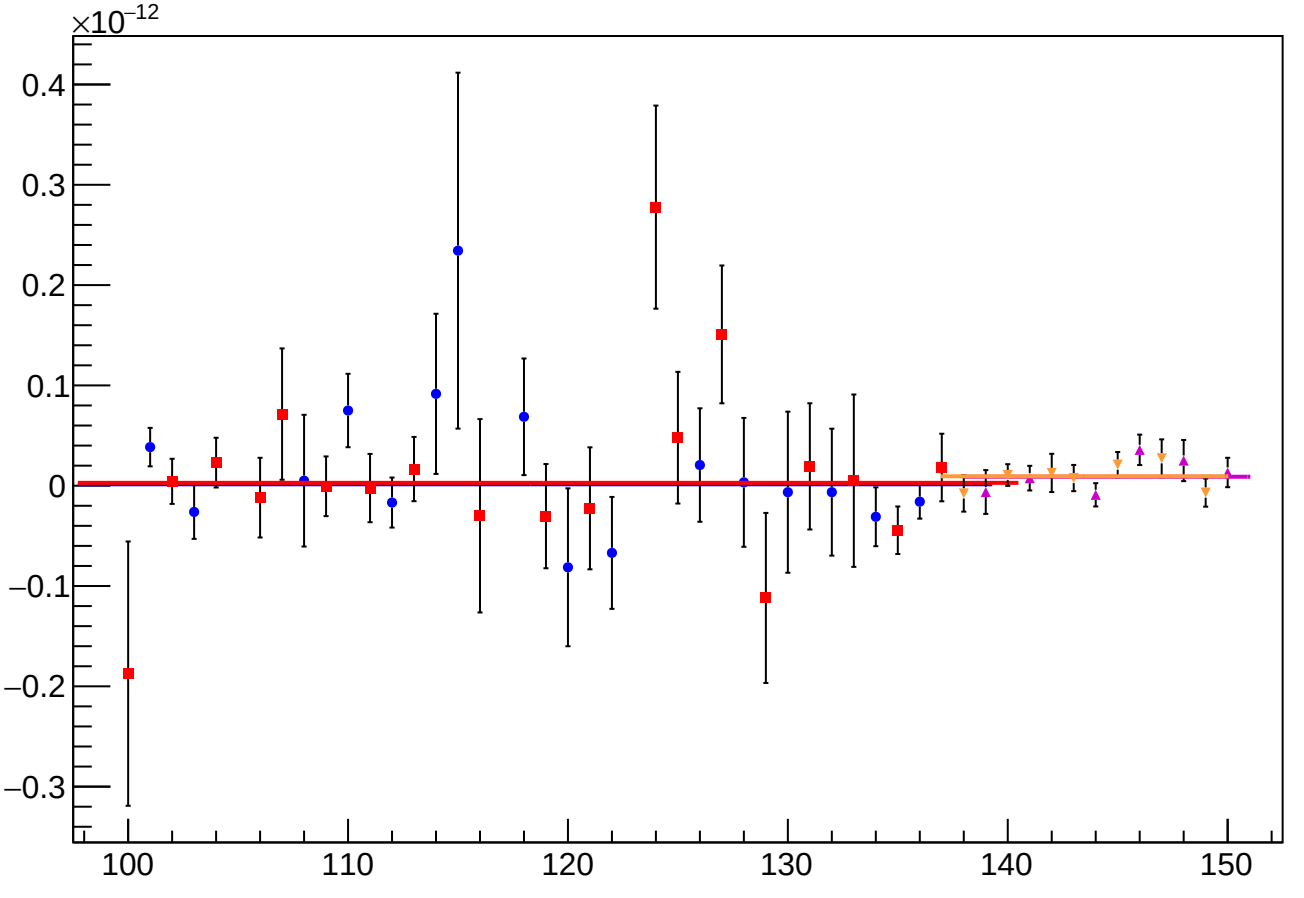
150
Right In: 24.712+/-0.007 χ²/NDF: 2295351.2/15
Left Out: 47.033+/-0.015 χ²/NDF:531424.6/6
Right Out: 25.597+/-0.007 χ²/NDF: 1605387.3/18
Left In: 44.348+/-0.014 χ²/NDF:178546.1/5
Left: 45.607+/-0.010 χ²/NDF: 726944.3/12
Right: 25.155+/-0.005 χ²/NDF: 3908047.8/34
In: 28.880+/-0.006 χ²/NDF:3999987.5/21
Out: 29.709+/-0.007 χ²/NDF:3783213.4/25
All: 29.289+/-0.005 χ²/NDF: 7791244.3/47

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.7/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 10.8/12

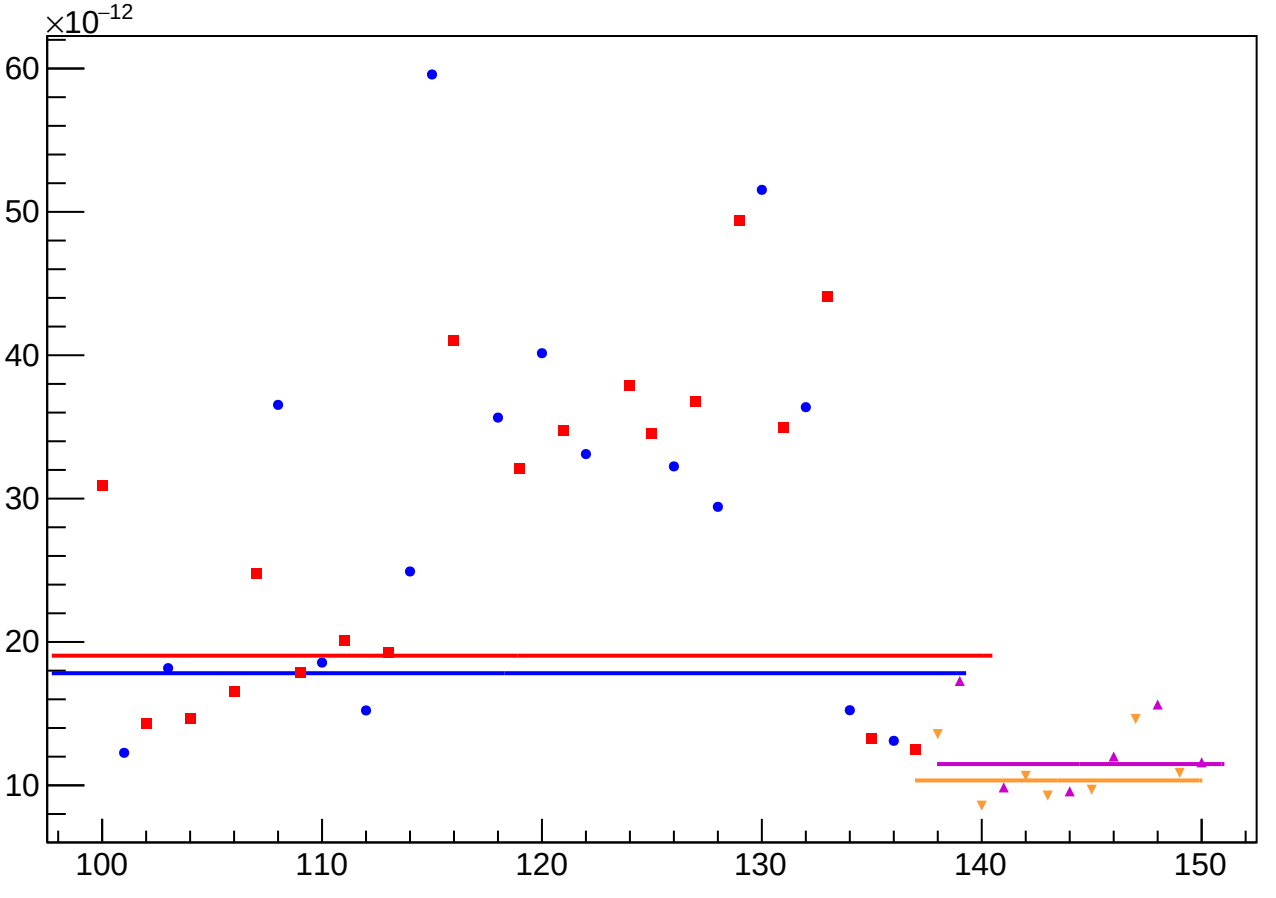
Right: 0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.0/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.9/25

All: 0.000+/-0.000 $\chi^2$/NDF: 53.9/47

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1869965.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:241366.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1620721.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:314205.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 595499.6/12

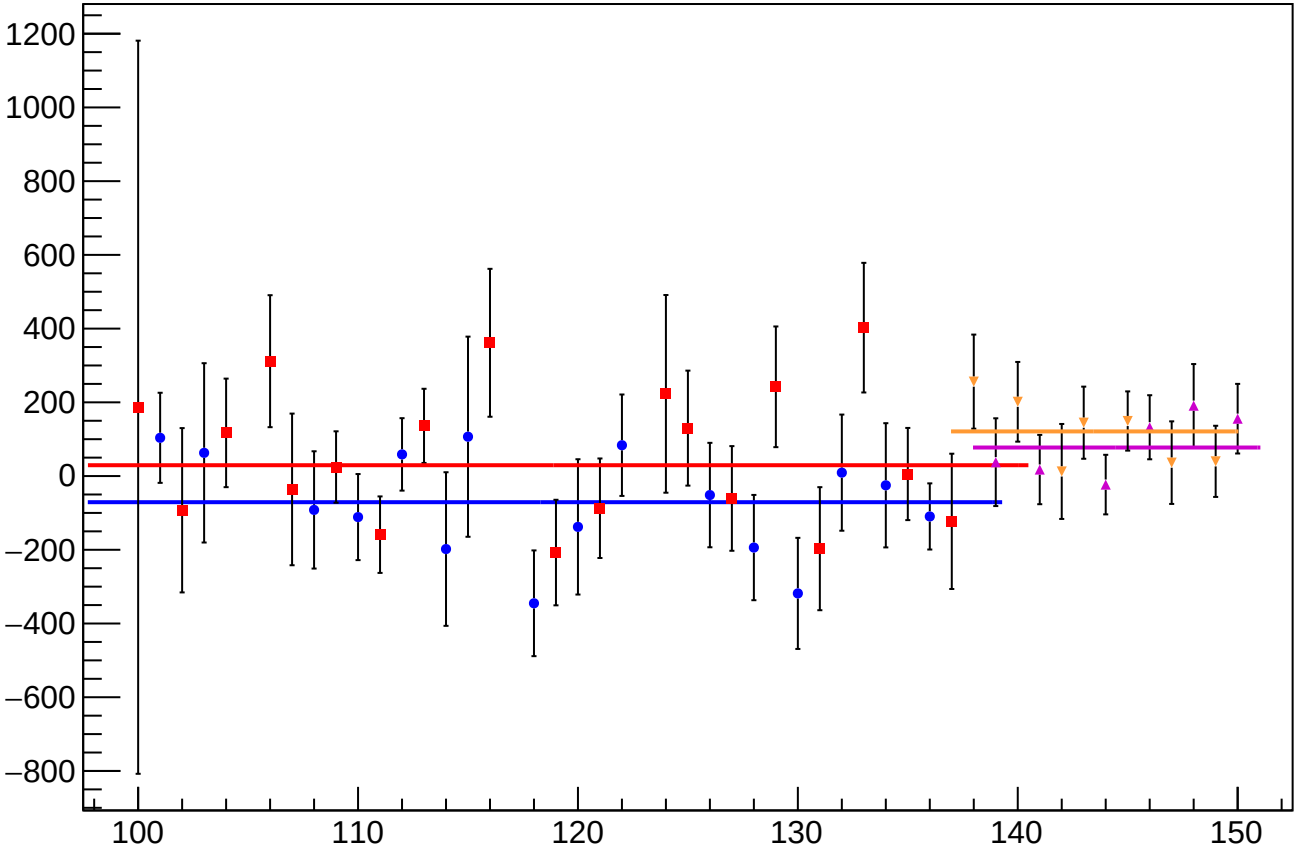
Right: 0.000+/-0.000 $\chi^2$/NDF: 3509564.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:2903880.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3208338.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6152037.5/47

# reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected




Right In: -70.892+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 121.114+/-39.115 $\chi^2$/NDF:3.8/6

Right Out: 29.410+/-34.243 $\chi^2$/NDF: 24.0/18

Left In: 77.417+/-38.929 $\chi^2$/NDF:4.2/5

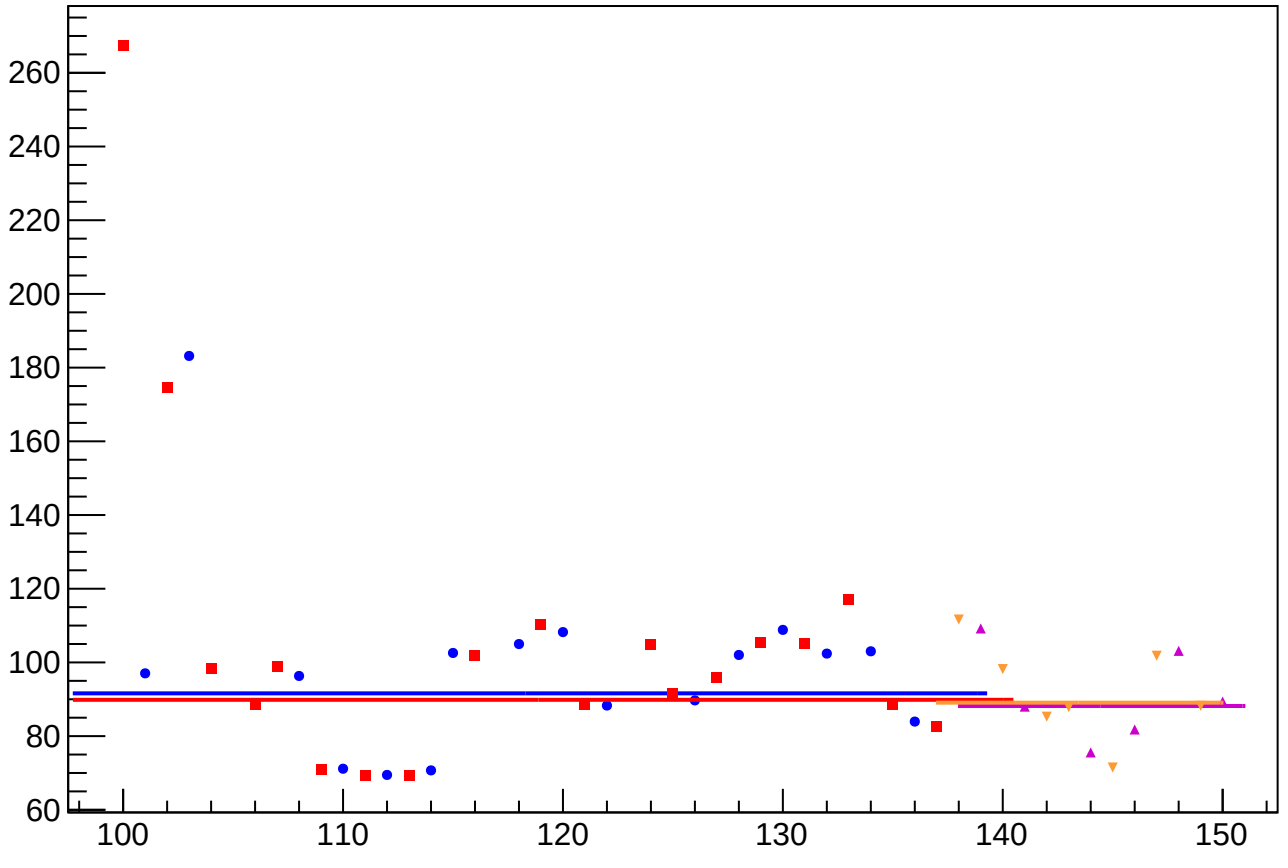
Left: 99.161+/-27.593 $\chi^2$/NDF: 8.6/12

Right: -19.470+/-24.518 $\chi^2$/NDF: 42.3/34

In: -4.341+/-26.077 $\chi^2$/NDF:26.2/21

Out: 69.198+/-25.765 $\chi^2$/NDF:31.0/25

All: 32.871+/-18.328 $\chi^2$/NDF: 61.2/47




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580672.8/15

Left Out: 89.085+/-0.028 $\chi^2$/NDF:200688.3/6

Right Out: 89.854+/-0.024 $\chi^2$/NDF: 746289.1/18

Left In: 88.178+/-0.028 $\chi^2$/NDF:157359.8/5

Left: 88.629+/-0.020 $\chi^2$/NDF: 358587.8/12

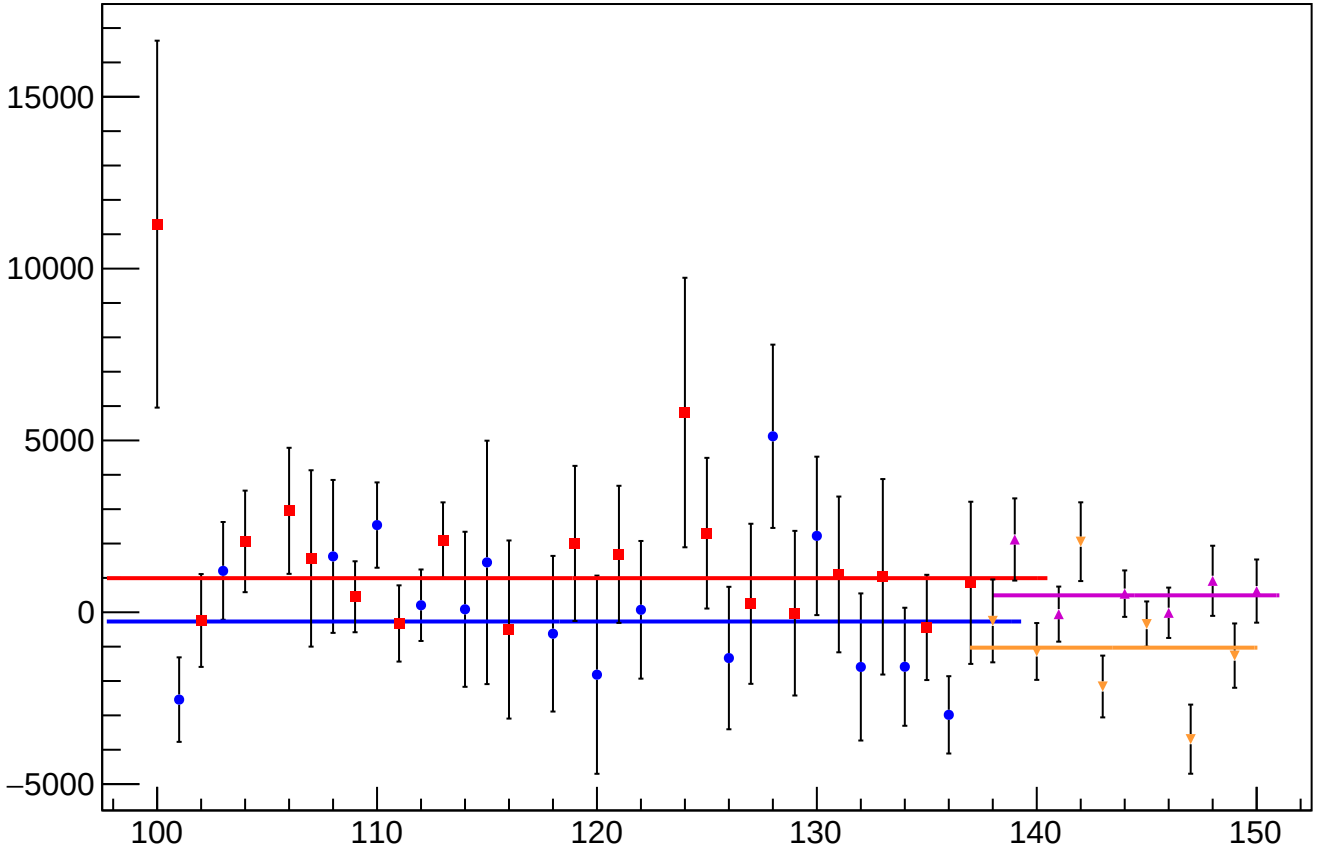
Right: 90.709+/-0.017 $\chi^2$/NDF: 1329517.7/34

In: 90.069+/-0.018 $\chi^2$/NDF:746591.5/21

Out: 89.520+/-0.018 $\chi^2$/NDF:947415.9/25

All: 89.791+/-0.013 $\chi^2$/NDF: 1694455.1/47

asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -268.485+/-419.578 $\chi^2$/NDF: 23.4/15

Left Out: -1029.544+/-341.469 $\chi^2$/NDF:17.4/6

Right Out: 992.670+/-400.824 $\chi^2$/NDF: 12.7/18

Left In: 492.994+/-343.951 $\chi^2$/NDF:3.0/5

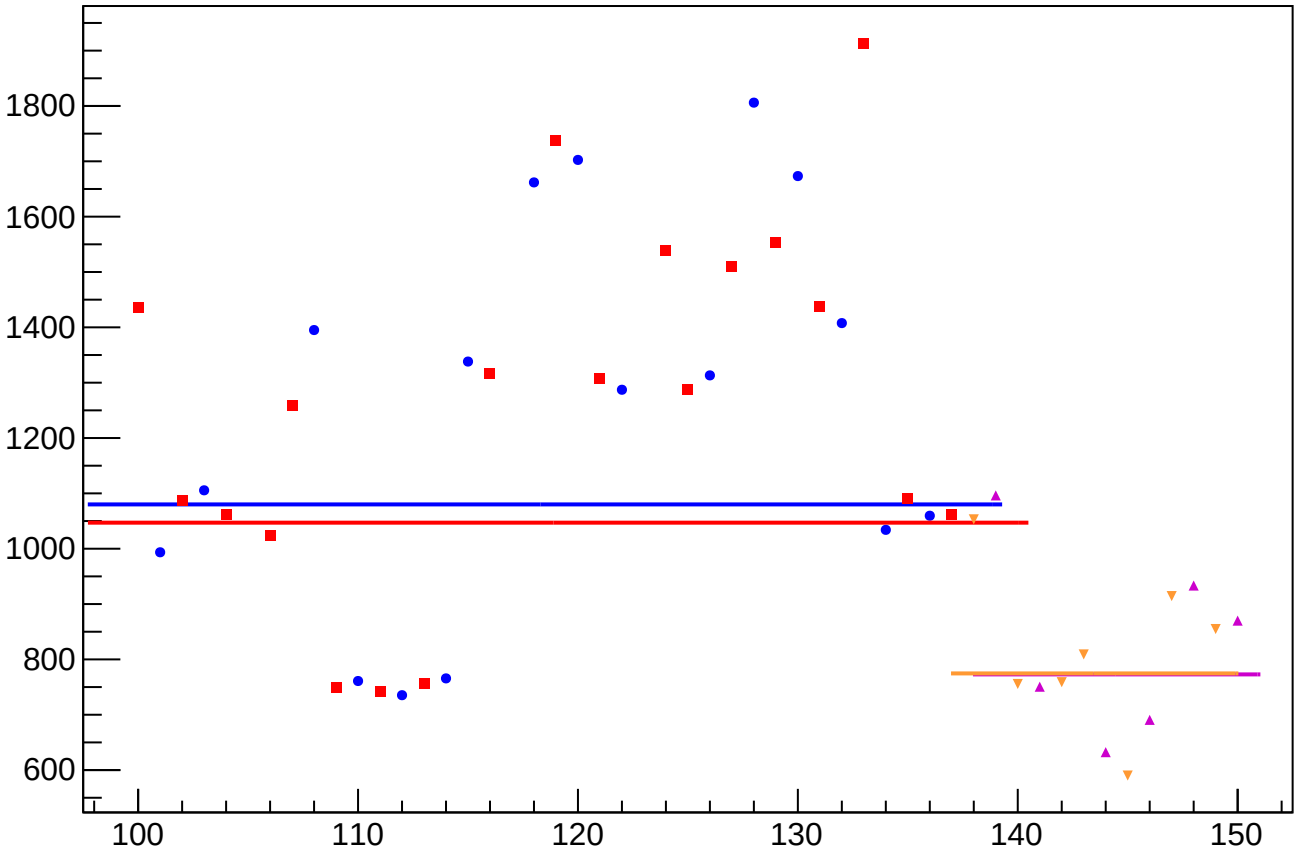
Left: -273.787+/-242.328 $\chi^2$/NDF: 30.3/12

Right: 390.906+/-289.829 $\chi^2$/NDF: 40.8/34

In: 186.946+/-265.998 $\chi^2$/NDF:28.4/21

Out: -179.109+/-259.933 $\chi^2$/NDF:44.8/25

All: -0.303+/-185.907 $\chi^2$/NDF: 74.2/47




Right In: 1080.045+/-0.297 $\chi^2$/NDF: 1053468.5/15

Left Out: 774.665+/-0.241 $\chi^2$/NDF:320667.0/6

Right Out: 1047.068+/-0.283 $\chi^2$/NDF: 1198646.2/18

Left In: 772.896+/-0.243 $\chi^2$/NDF:331264.6/5

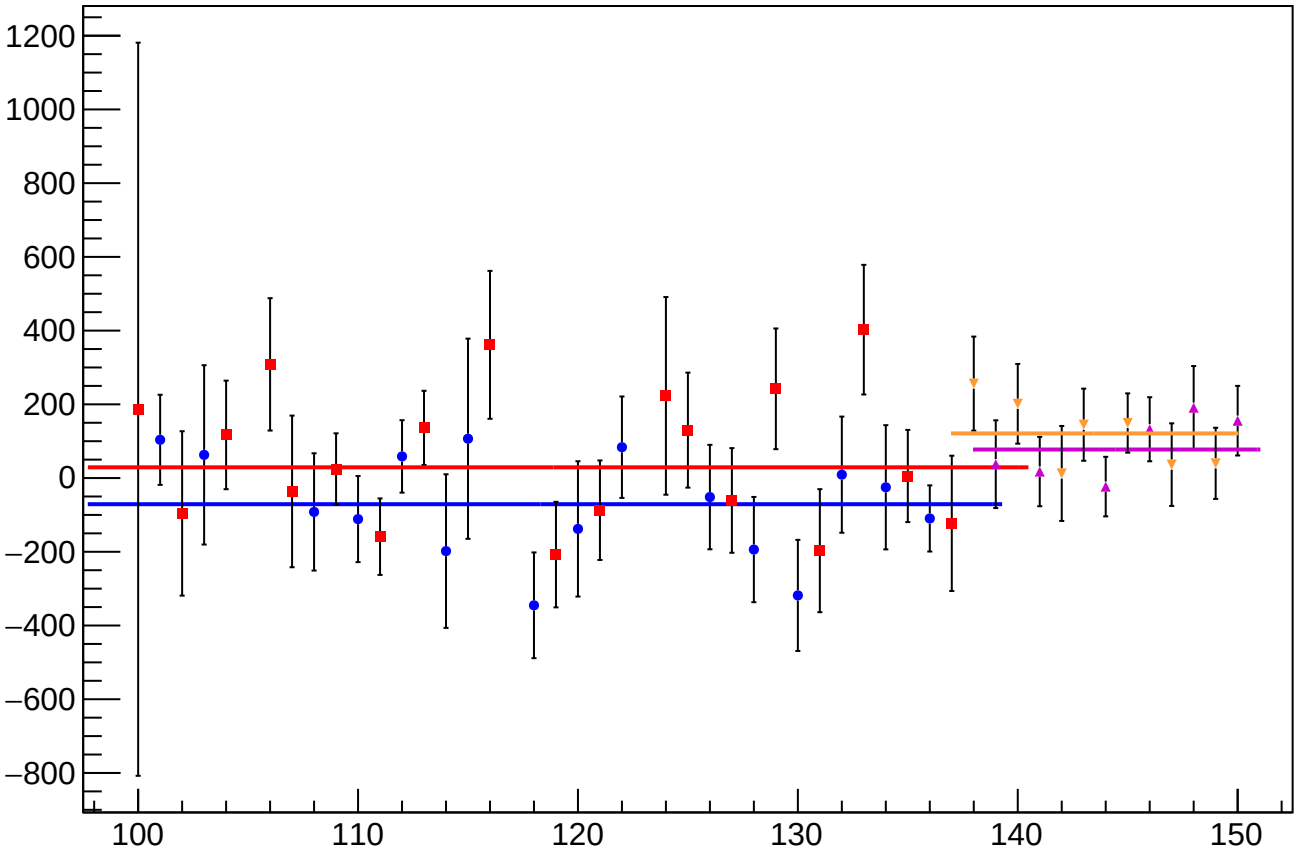
Left: 773.787+/-0.171 $\chi^2$/NDF: 651958.3/12

Right: 1062.803+/-0.205 $\chi^2$/NDF: 2258574.4/34

In: 896.343+/-0.188 $\chi^2$/NDF:2025748.7/21

Out: 889.223+/-0.184 $\chi^2$/NDF:2054569.7/25

All: 892.701+/-0.131 $\chi^2$/NDF: 4081051.4/47




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 121.126+/-39.115 $\chi^2$/NDF:3.8/6

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 77.420+/-38.929 $\chi^2$/NDF:4.2/5

Left: 99.168+/-27.593 $\chi^2$/NDF: 8.6/12

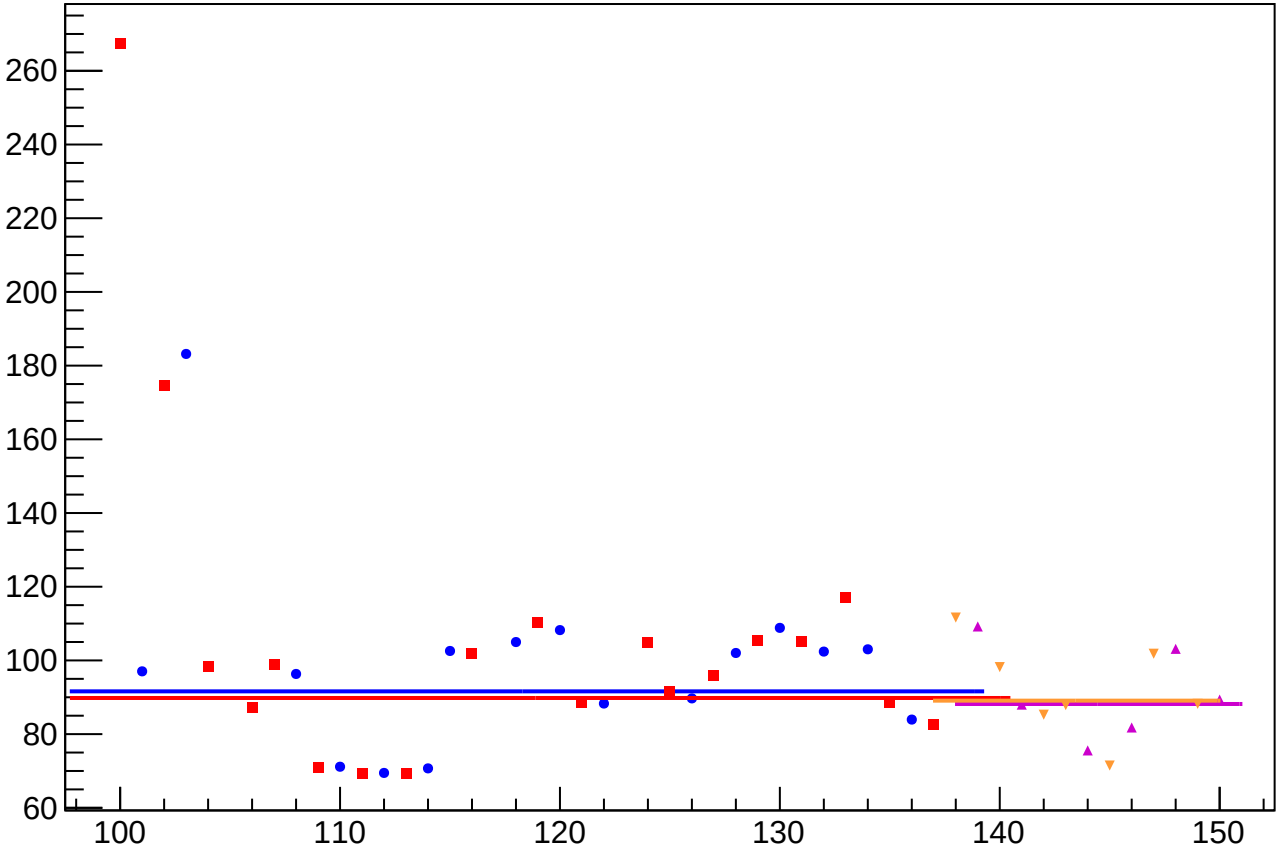
Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: -4.346+/-26.077 $\chi^2$/NDF:26.2/21

Out: 69.066+/-25.767 $\chi^2$/NDF:30.9/25

All: 32.800+/-18.329 $\chi^2$/NDF: 61.2/47

# cor_asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 89.085+/-0.028 $\chi^2$/NDF:200688.3/6

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 88.178+/-0.028 $\chi^2$/NDF:157359.8/5

Left: 88.629+/-0.020 $\chi^2$/NDF: 358587.8/12

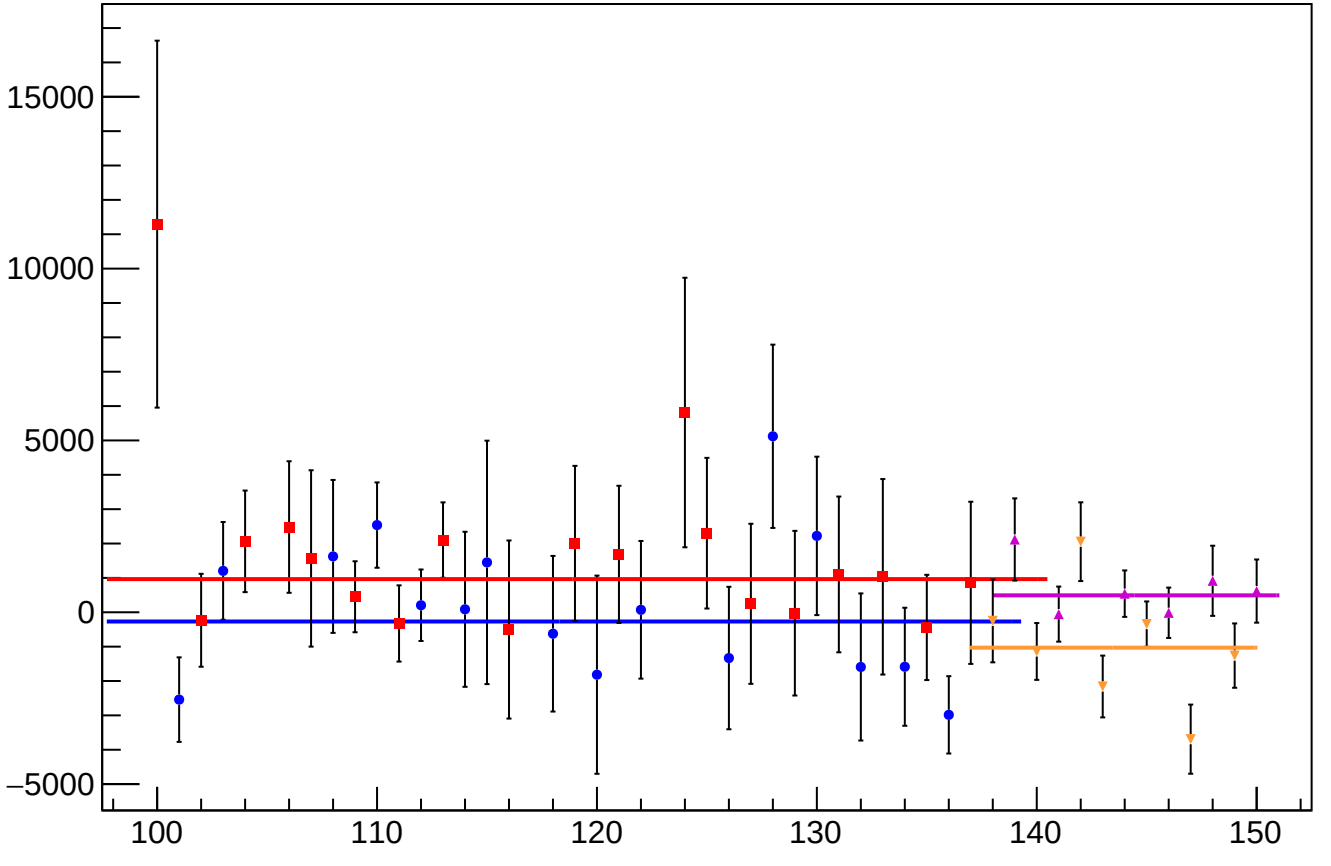
Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 90.069+/-0.018 $\chi^2$/NDF:746594.6/21

Out: 89.494+/-0.018 $\chi^2$/NDF:947907.8/25

All: 89.778+/-0.013 $\chi^2$/NDF: 1694995.1/47

asym_sam_3748_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -268.506+/-419.581 $\chi^2$/NDF: 23.4/15

Left Out: -1029.534+/-341.469 $\chi^2$/NDF:17.4/6

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 493.003+/-343.951 $\chi^2$/NDF:3.0/5

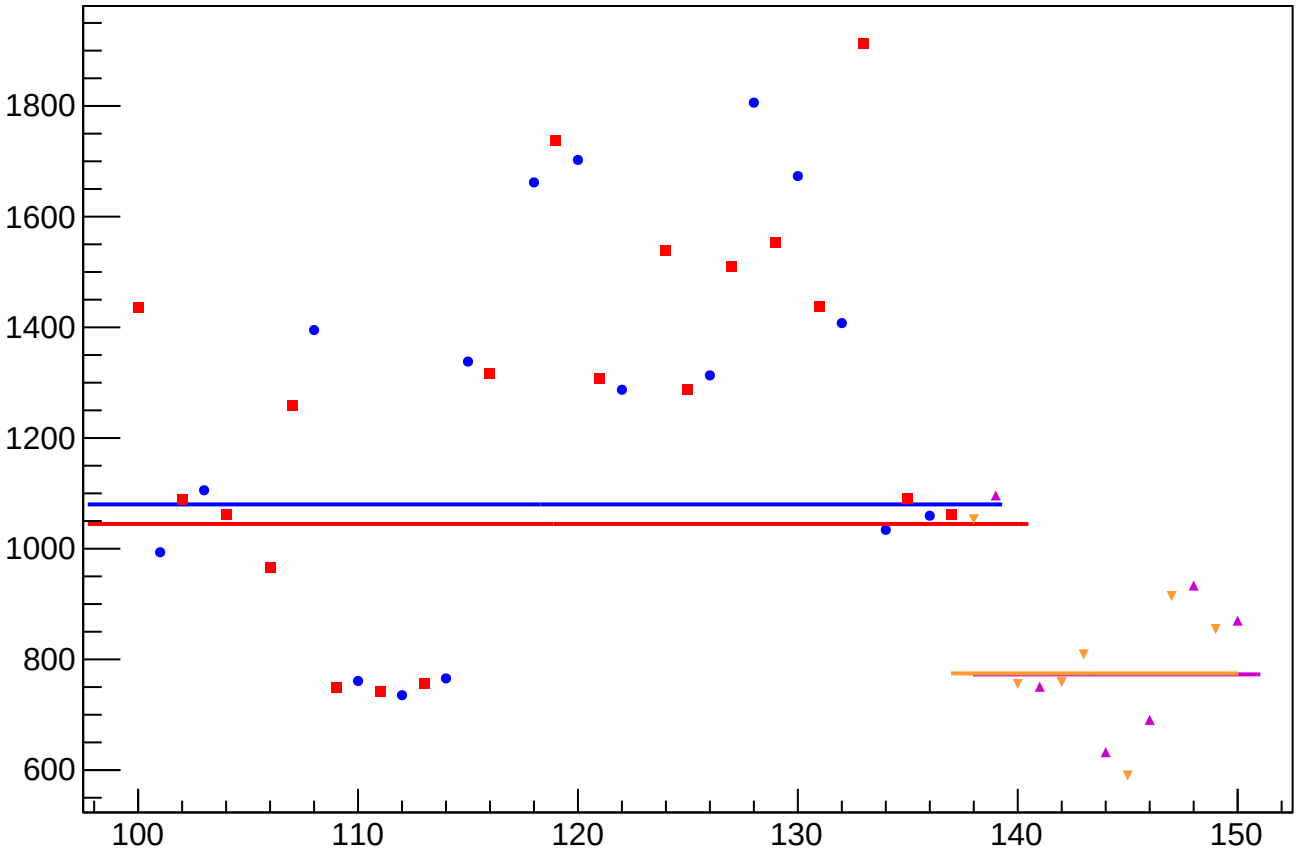
Left: -273.778+/-242.328 $\chi^2$/NDF: 30.3/12

Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 186.946+/-265.999 $\chi^2$/NDF:28.4/21

Out: -192.704+/-260.153 $\chi^2$/NDF:43.8/25

All: -7.097+/-185.988 $\chi^2$/NDF: 73.3/47




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 774.665+/-0.241 $\chi^2$/NDF:320668.0/6

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 772.896+/-0.243 $\chi^2$/NDF:331263.8/5

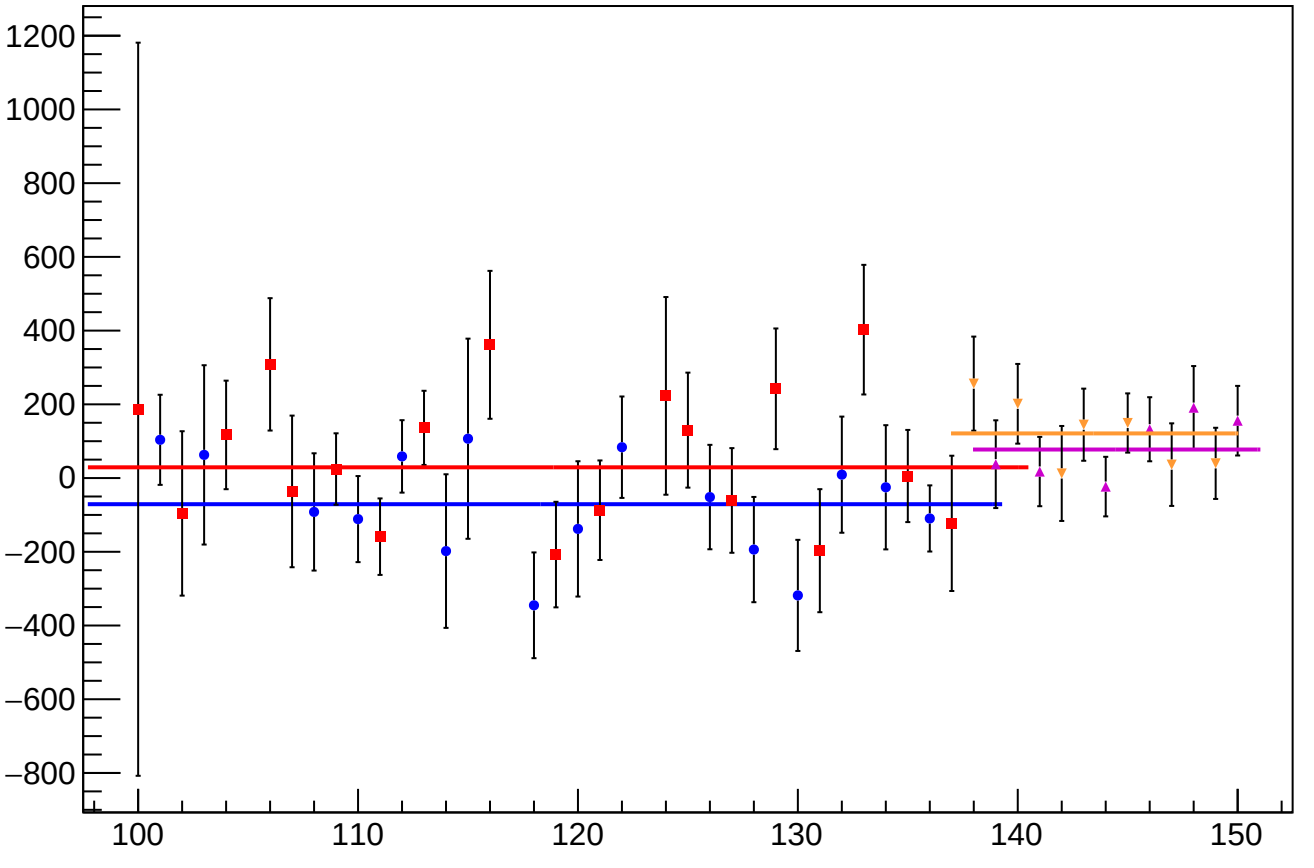
Left: 773.787+/-0.171 $\chi^2$/NDF: 651958.4/12

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 896.346+/-0.188 $\chi^2$/NDF:2025782.8/21

Out: 887.969+/-0.184 $\chi^2$/NDF:2047324.2/25

All: 892.064+/-0.132 $\chi^2$/NDF: 4074120.7/47




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 121.126+/-39.115 $\chi^2$/NDF:3.8/6

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 77.420+/-38.929 $\chi^2$/NDF:4.2/5

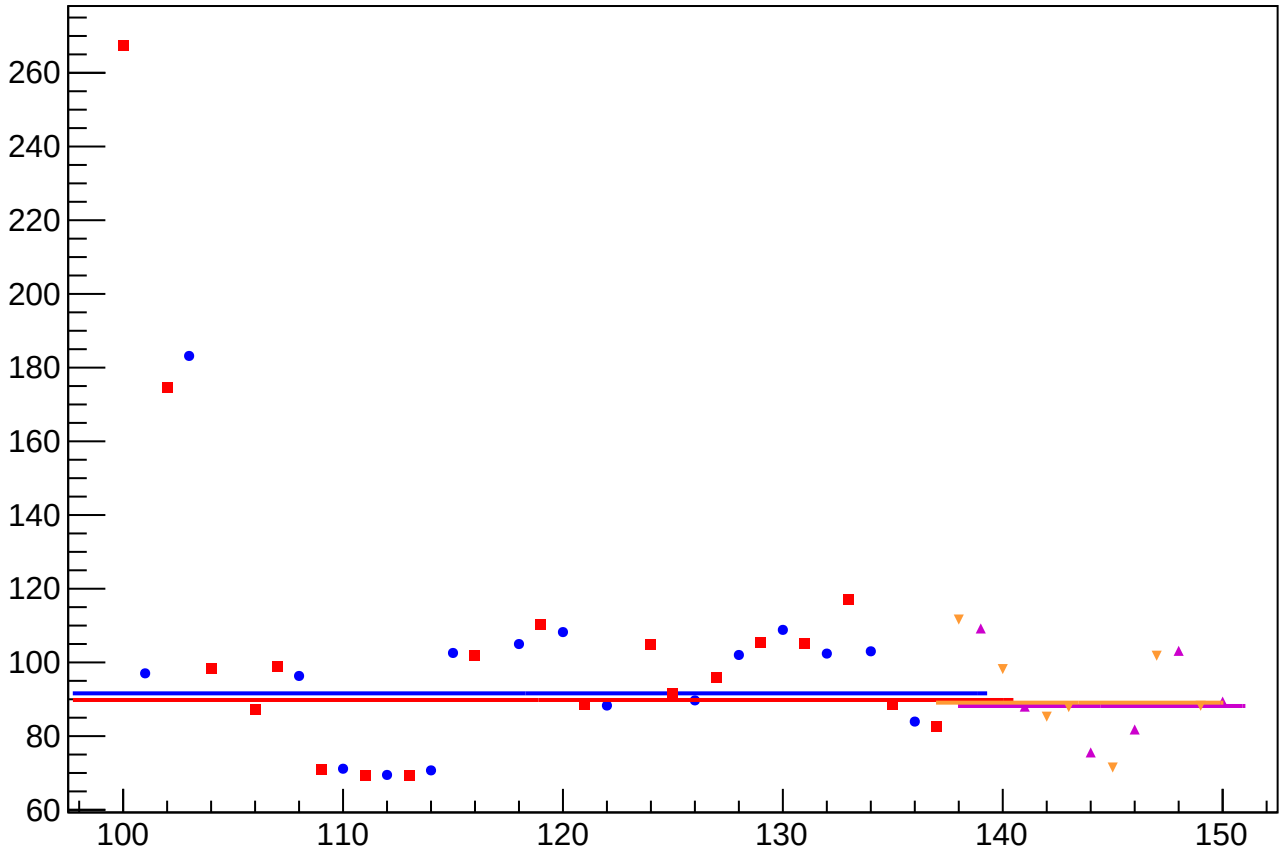
Left: 99.168+/-27.593 $\chi^2$/NDF: 8.6/12

Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: -4.346+/-26.077 $\chi^2$/NDF:26.2/21

Out: 69.066+/-25.767 $\chi^2$/NDF:30.9/25

All: 32.800+/-18.329 $\chi^2$/NDF: 61.2/47




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 89.085+/-0.028 $\chi^2$/NDF:200688.3/6

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 88.178+/-0.028 $\chi^2$/NDF:157359.8/5

Left: 88.629+/-0.020 $\chi^2$/NDF: 358587.8/12

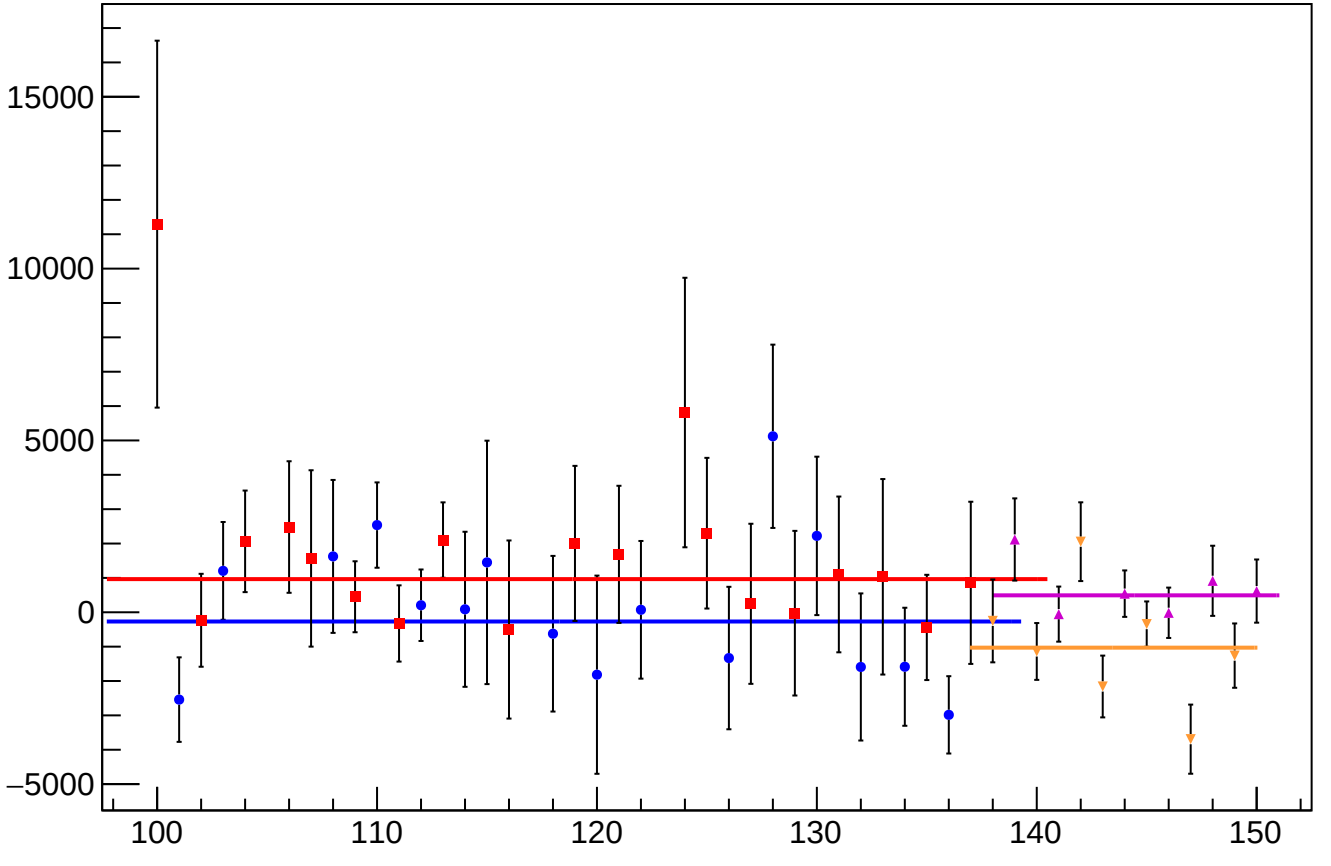
Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 90.069+/-0.018 $\chi^2$/NDF:746594.6/21

Out: 89.494+/-0.018 $\chi^2$/NDF:947907.8/25

All: 89.778+/-0.013 $\chi^2$/NDF: 1694995.1/47

asym_sam_3748_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -268.506+/-419.581 $\chi^2$/NDF: 23.4/15

Left Out: -1029.534+/-341.469 $\chi^2$/NDF:17.4/6

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 493.003+/-343.951 $\chi^2$/NDF:3.0/5

Left: -273.778+/-242.328 $\chi^2$/NDF: 30.3/12

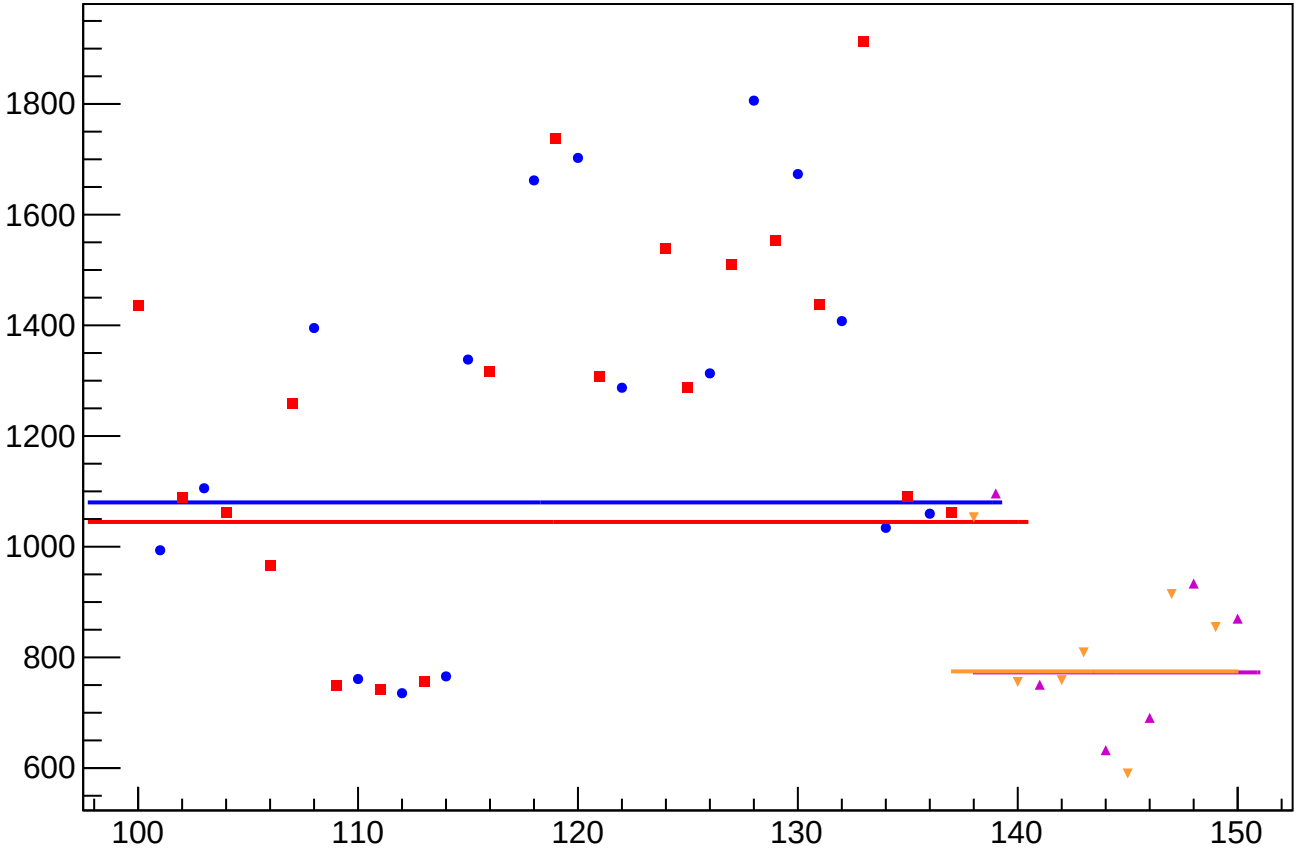
Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 186.946+/-265.999 $\chi^2$/NDF:28.4/21

Out: -192.704+/-260.153 $\chi^2$/NDF:43.8/25

All: -7.097+/-185.988 $\chi^2$/NDF: 73.3/47

asym_sam_3748_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 774.665+/-0.241 $\chi^2$/NDF:320668.0/6

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 772.896+/-0.243 $\chi^2$/NDF:331263.8/5

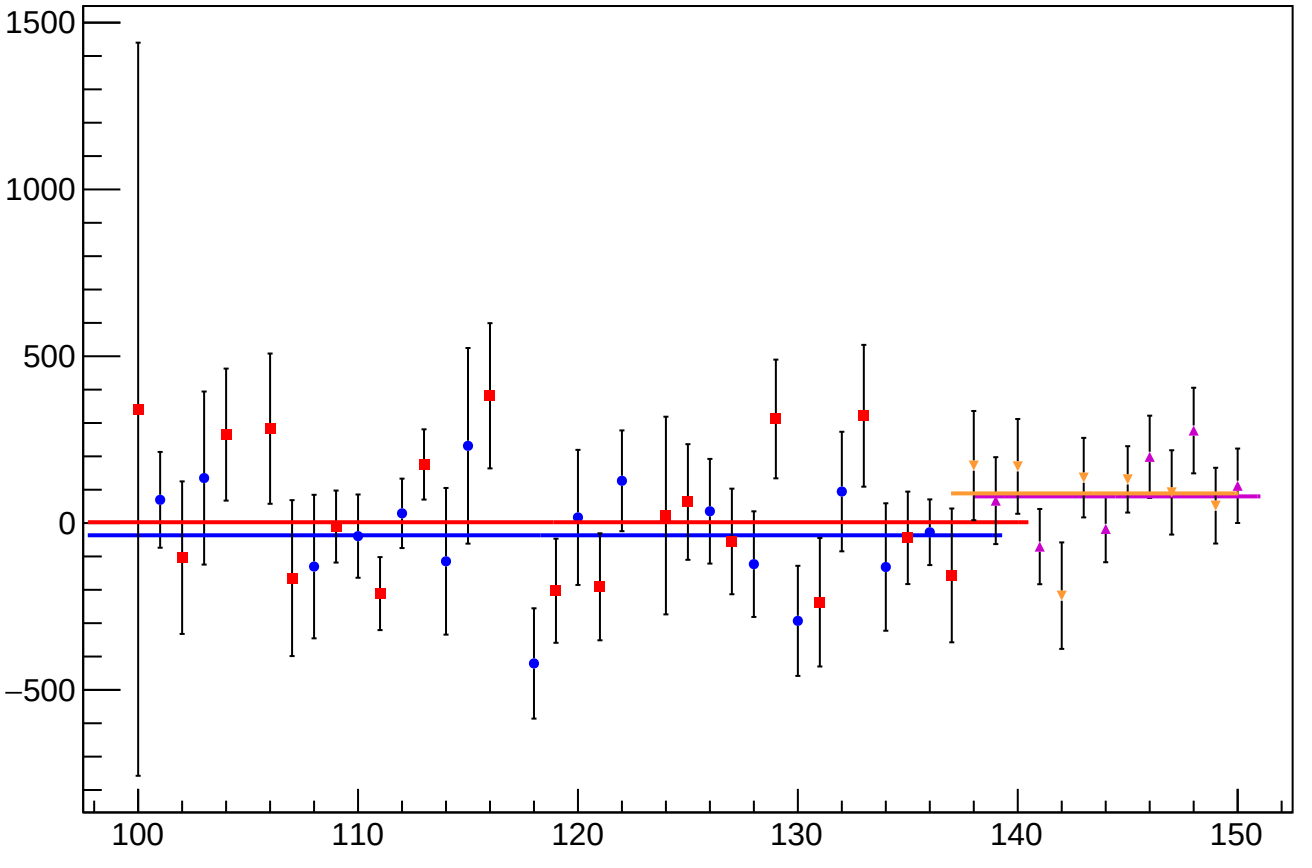
Left: 773.787+/-0.171 $\chi^2$/NDF: 651958.4/12

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 896.346+/-0.188 $\chi^2$/NDF:2025782.8/21

Out: 887.969+/-0.184 $\chi^2$/NDF:2047324.2/25

All: 892.064+/-0.132 $\chi^2$/NDF: 4074120.7/47




Right In: -36.590+/-38.991 $\chi^2$/NDF: 12.9/15

Left Out: 88.957+/-47.796 $\chi^2$/NDF:4.7/6

Right Out: 2.568+/-38.165 $\chi^2$/NDF: 24.7/18

Left In: 80.039+/-47.434 $\chi^2$/NDF:6.1/5

Left: 84.464+/-33.668 $\chi^2$/NDF: 10.8/12

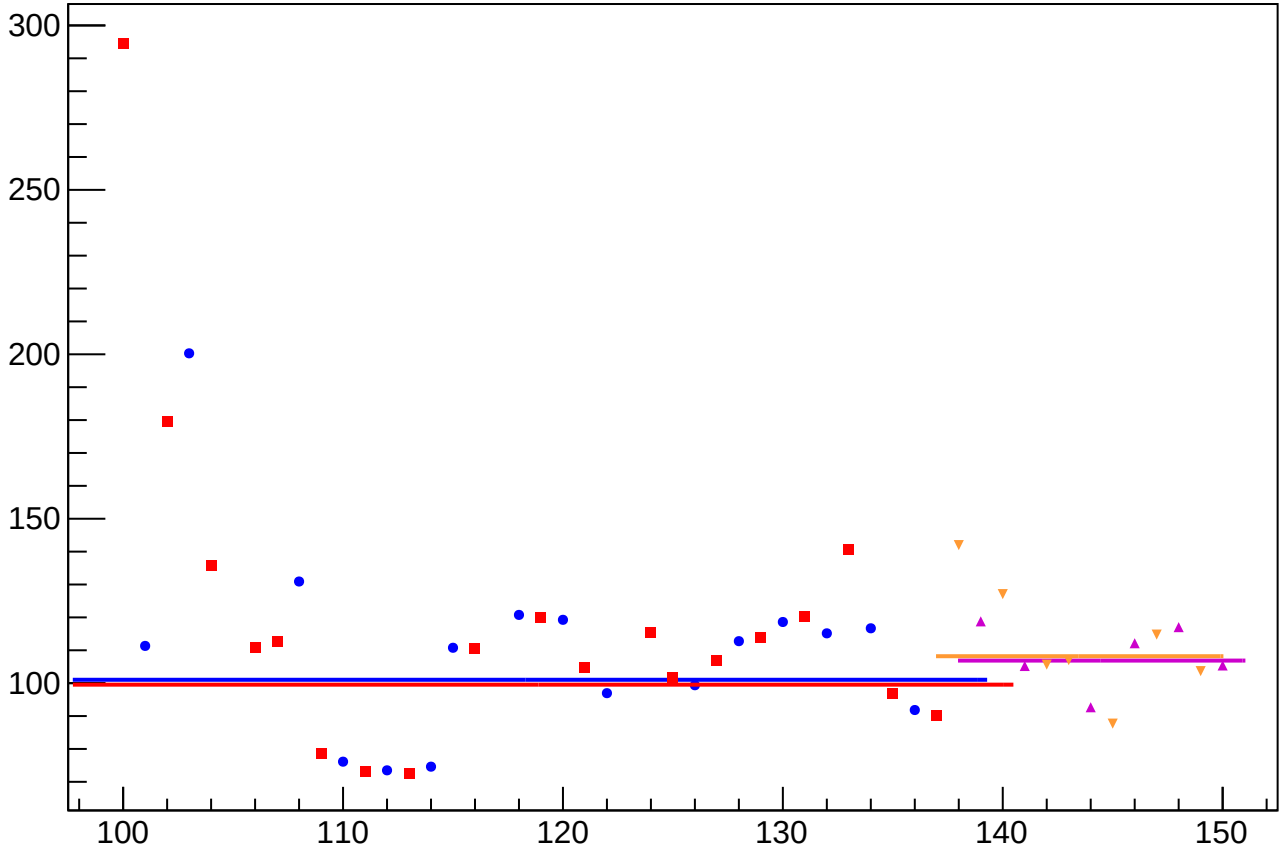
Right: -16.592+/-27.274 $\chi^2$/NDF: 38.1/34

In: 10.438+/-30.121 $\chi^2$/NDF:22.6/21

Out: 36.204+/-29.823 $\chi^2$/NDF:31.4/25

All: 23.449+/-21.193 $\chi^2$/NDF: 54.4/47

# dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 101.031+/-0.028 $\chi^2$/NDF: 716095.9/15

Left Out: 108.196+/-0.034 $\chi^2$/NDF:214768.9/6

Right Out: 99.547+/-0.027 $\chi^2$/NDF: 880497.8/18

Left In: 106.867+/-0.034 $\chi^2$/NDF:74082.7/5

Left: 107.526+/-0.024 $\chi^2$/NDF: 289629.9/12

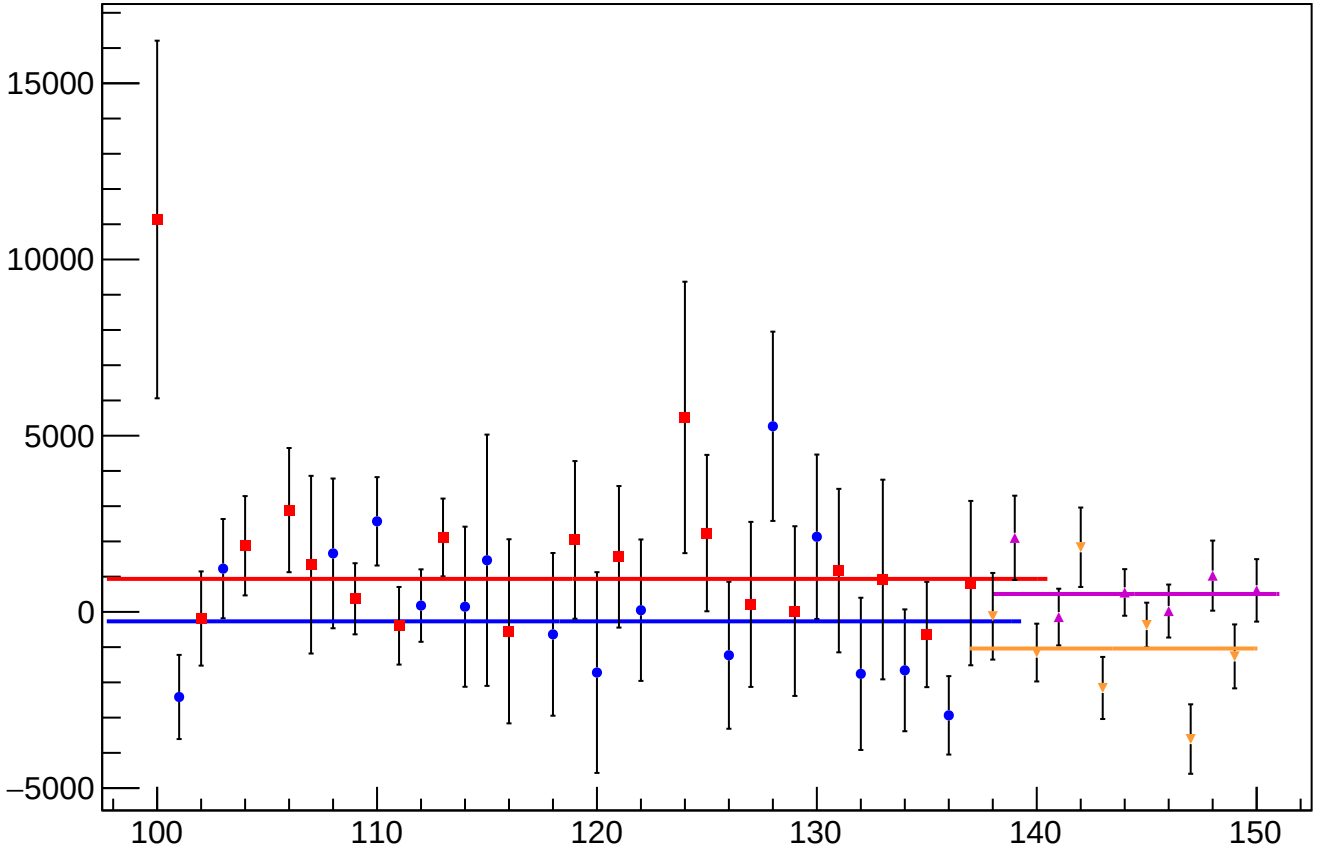
Right: 100.273+/-0.019 $\chi^2$/NDF: 1598073.3/34

In: 103.384+/-0.021 $\chi^2$/NDF:808245.9/21

Out: 102.914+/-0.021 $\chi^2$/NDF:1135253.9/25

All: 103.147+/-0.015 $\chi^2$/NDF: 1943745.8/47

asym_sam_3748_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -267.886+/-417.061 $\chi^2$/NDF: 23.5/15

Left Out: -1039.006+/-334.129 $\chi^2$/NDF:16.6/6

Right Out: 936.734+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 508.337+/-341.239 $\chi^2$/NDF:3.1/5

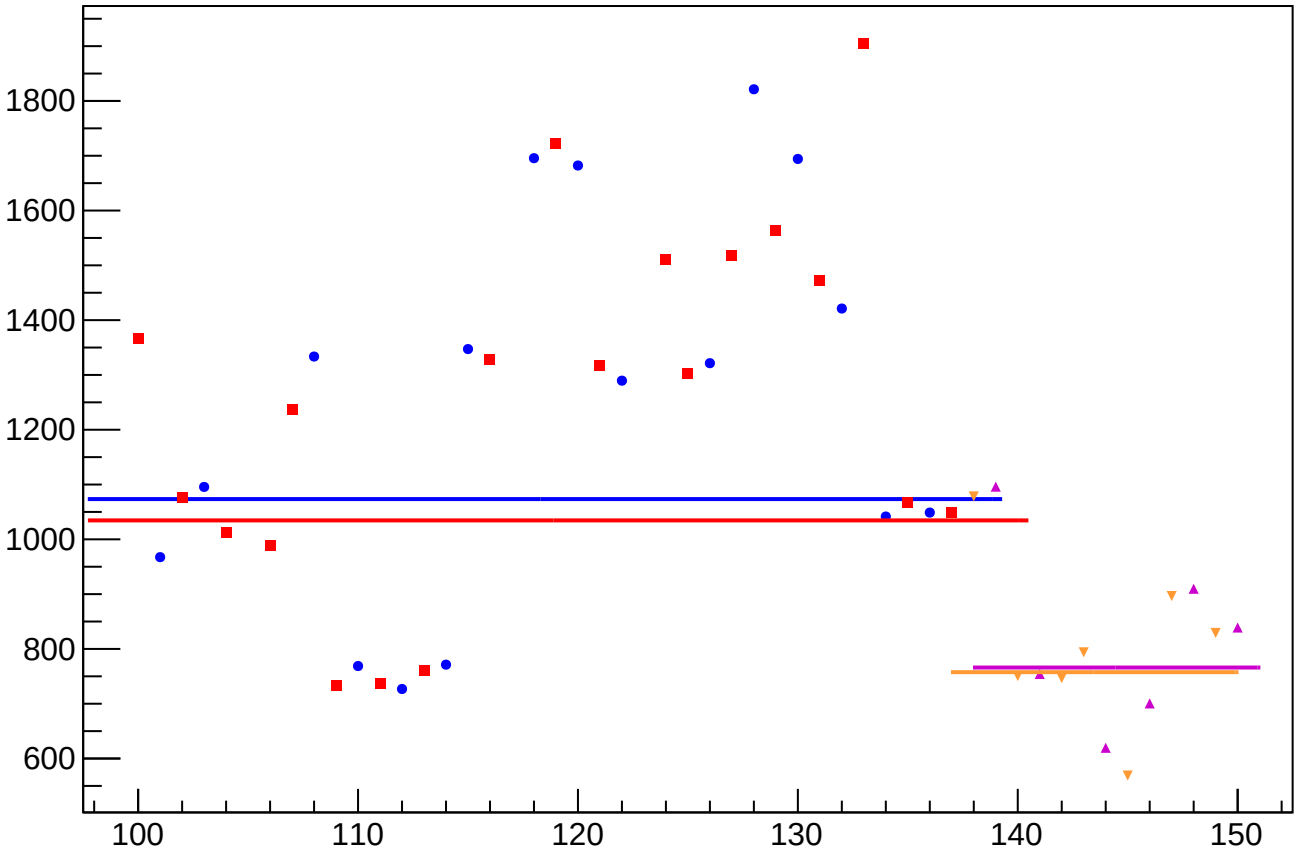
Left: -281.622+/-238.739 $\chi^2$/NDF: 30.3/12

Right: 365.251+/-287.261 $\chi^2$/NDF: 41.0/34

In: 197.072+/-264.102 $\chi^2$/NDF:28.7/21

Out: -217.934+/-255.434 $\chi^2$/NDF:44.3/25

All: -17.354+/-183.607 $\chi^2$/NDF: 74.3/47




Right In: 1073.456+/-0.295 $\chi^2$/NDF: 1077055.9/15

Left Out: 757.575+/-0.236 $\chi^2$/NDF:369087.2/6

Right Out: 1034.535+/-0.280 $\chi^2$/NDF: 1229344.1/18

Left In: 766.052+/-0.241 $\chi^2$/NDF:321403.0/5

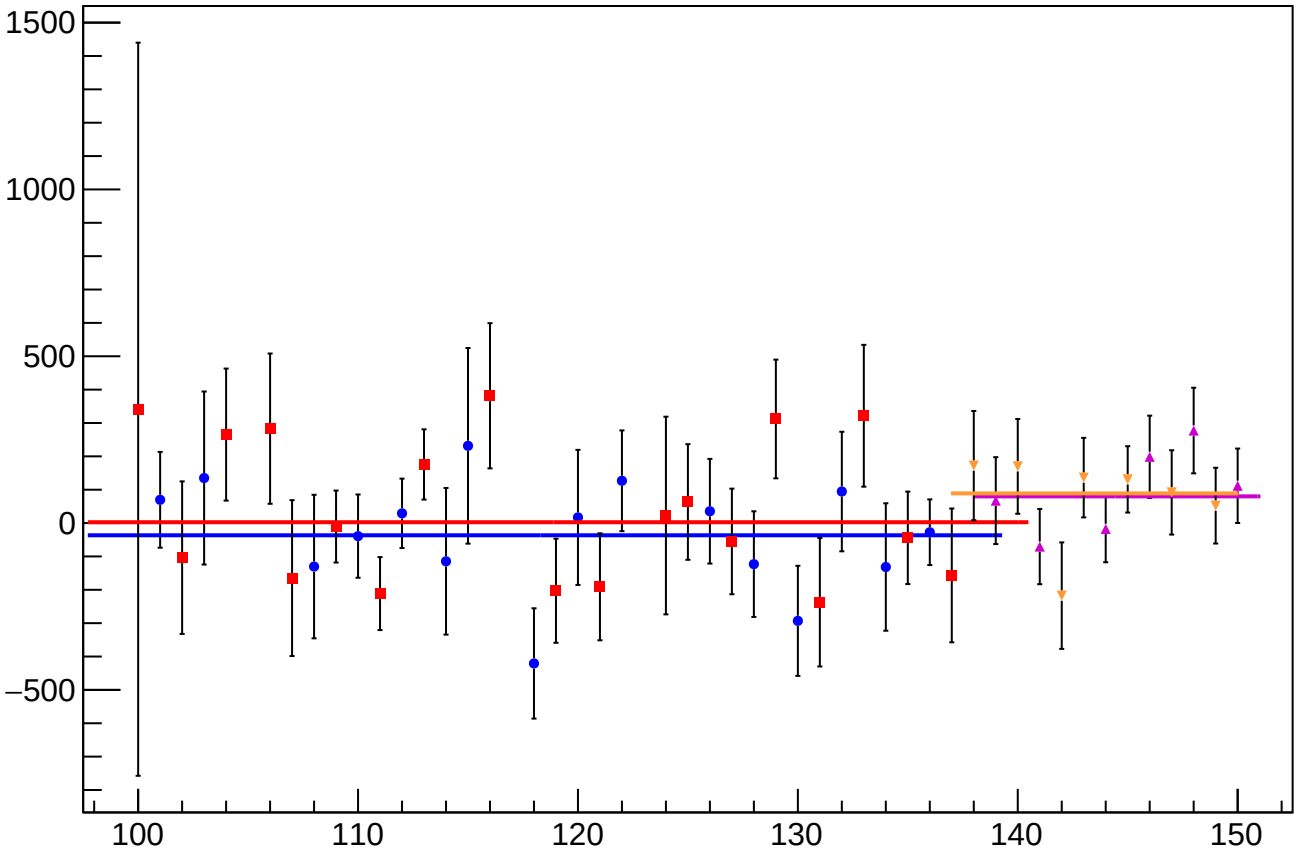
Left: 761.724+/-0.169 $\chi^2$/NDF: 691120.3/12

Right: 1052.999+/-0.203 $\chi^2$/NDF: 2315554.6/34

In: 889.321+/-0.187 $\chi^2$/NDF:2049300.3/21

Out: 872.673+/-0.181 $\chi^2$/NDF:2169497.7/25

All: 880.719+/-0.130 $\chi^2$/NDF: 4222903.8/47




Right In: -36.589+/-38.991 $\chi^2$/NDF: 12.9/15

Left Out: 88.956+/-47.796 $\chi^2$/NDF:4.7/6

Right Out: 2.566+/-38.165 $\chi^2$/NDF: 24.7/18

Left In: 80.039+/-47.434 $\chi^2$/NDF:6.1/5

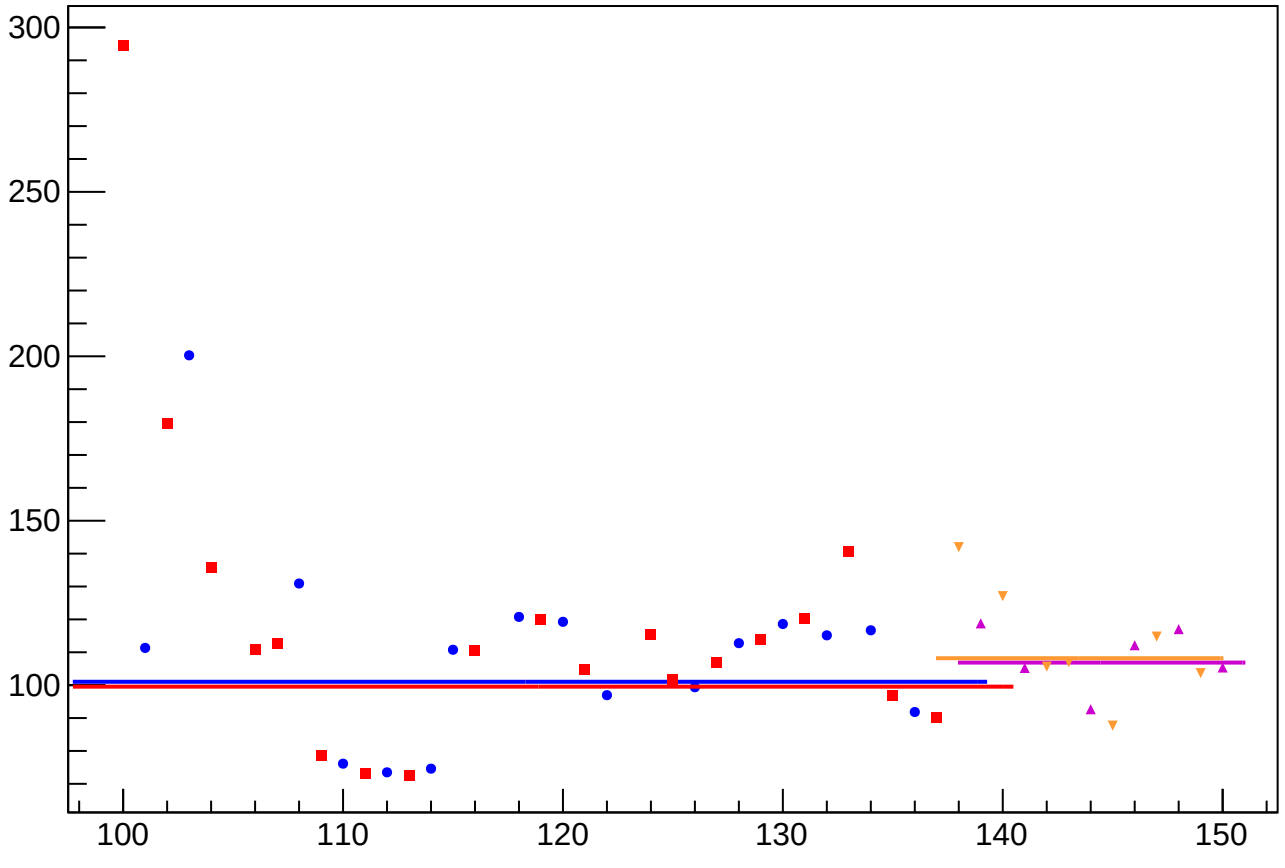
Left: 84.464+/-33.668 $\chi^2$/NDF: 10.8/12

Right: -16.593+/-27.274 $\chi^2$/NDF: 38.1/34

In: 10.439+/-30.121 $\chi^2$/NDF:22.6/21

Out: 36.202+/-29.824 $\chi^2$/NDF:31.4/25

All: 23.448+/-21.193 $\chi^2$/NDF: 54.4/47




Right In: 101.031+/-0.028 $\chi^2$/NDF: 716094.5/15

Left Out: 108.196+/-0.034 $\chi^2$/NDF:214761.6/6

Right Out: 99.547+/-0.027 $\chi^2$/NDF: 880499.8/18

Left In: 106.868+/-0.034 $\chi^2$/NDF:74080.4/5

Left: 107.527+/-0.024 $\chi^2$/NDF: 289620.4/12

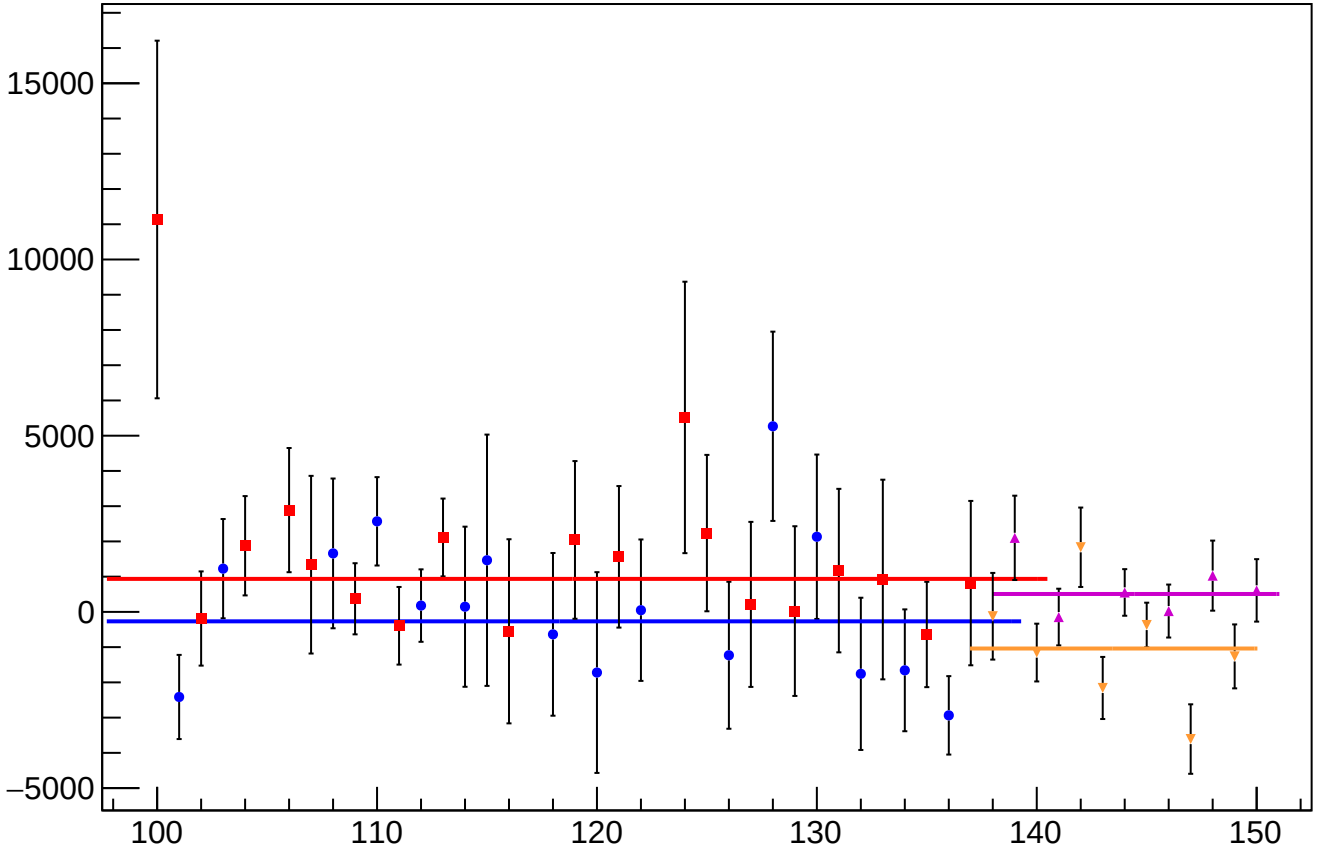
Right: 100.273+/-0.019 $\chi^2$/NDF: 1598074.0/34

In: 103.385+/-0.021 $\chi^2$/NDF:808243.6/21

Out: 102.915+/-0.021 $\chi^2$/NDF:1135251.6/25

All: 103.147+/-0.015 $\chi^2$/NDF: 1943741.1/47

asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -267.885+/-417.061 $\chi^2$/NDF: 23.5/15

Left Out: -1039.007+/-334.129 $\chi^2$/NDF:16.6/6

Right Out: 936.732+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 508.336+/-341.238 $\chi^2$/NDF:3.1/5

Left: -281.623+/-238.739 $\chi^2$/NDF: 30.3/12

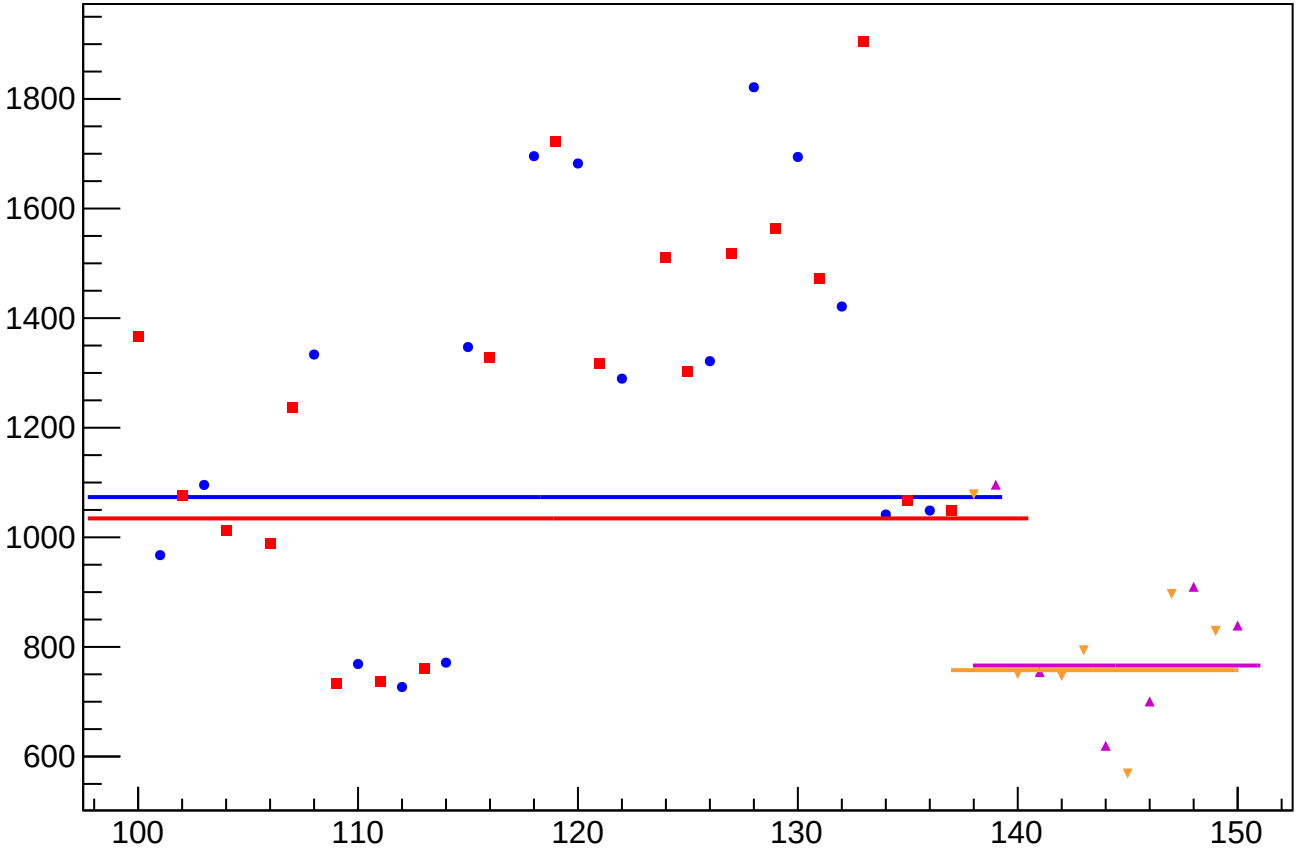
Right: 365.251+/-287.260 $\chi^2$/NDF: 41.0/34

In: 197.072+/-264.102 $\chi^2$/NDF:28.7/21

Out: -217.935+/-255.433 $\chi^2$/NDF:44.3/25

All: -17.354+/-183.607 $\chi^2$/NDF: 74.3/47

asym_sam_3748_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1073.454+/-0.295 $\chi^2$/NDF: 1077061.8/15

Left Out: 757.574+/-0.236 $\chi^2$/NDF:369090.5/6

Right Out: 1034.533+/-0.280 $\chi^2$/NDF: 1229346.7/18

Left In: 766.051+/-0.241 $\chi^2$/NDF:321404.3/5

Left: 761.723+/-0.169 $\chi^2$/NDF: 691125.0/12

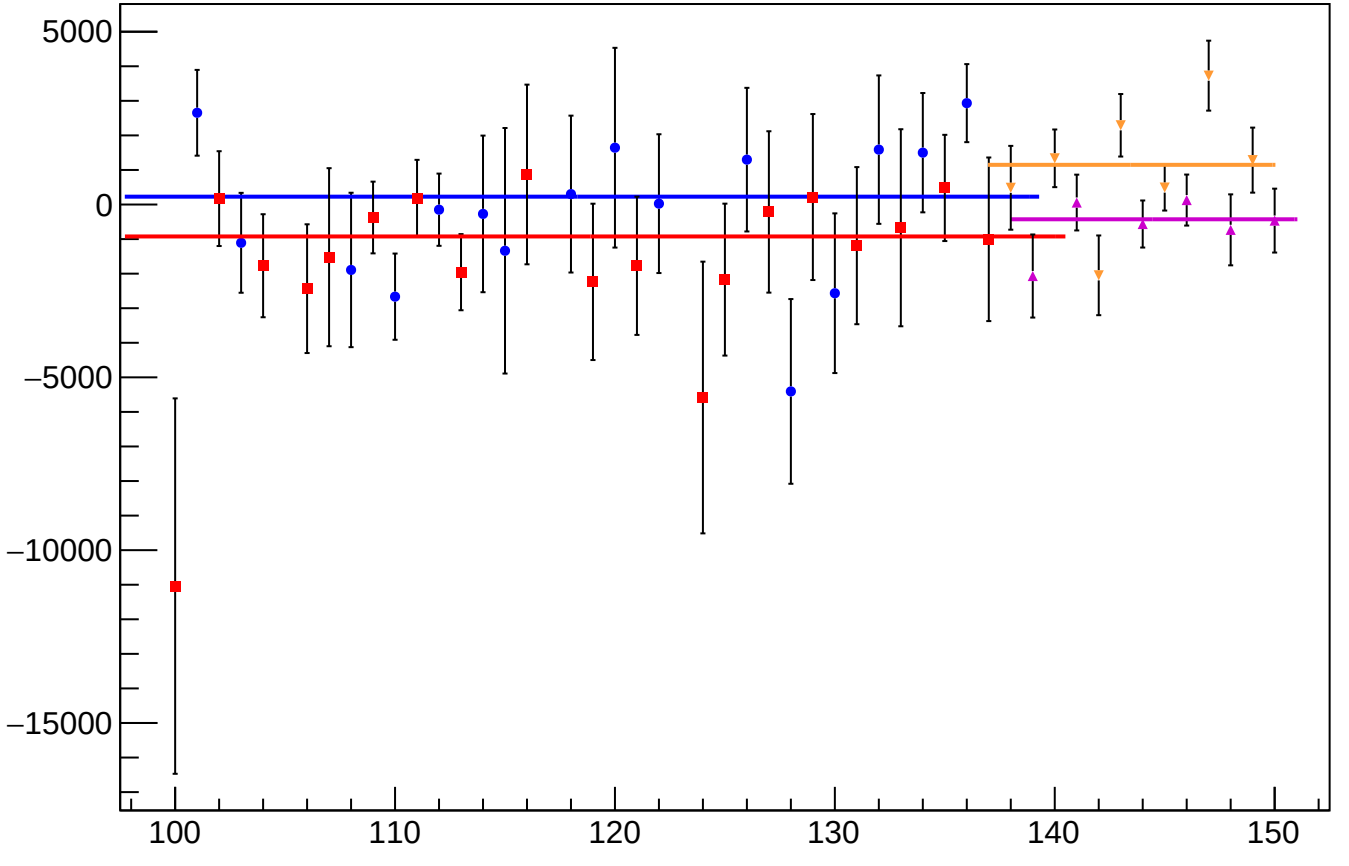
Right: 1052.997+/-0.203 $\chi^2$/NDF: 2315562.9/34

In: 889.320+/-0.187 $\chi^2$/NDF:2049303.3/21

Out: 872.672+/-0.181 $\chi^2$/NDF:2169503.1/25

All: 880.718+/-0.130 $\chi^2$/NDF: 4222912.4/47

# asym_sam_3748_avg_mean vs Slug, Sign Corrected




Right In: 227.502+/-421.838 $\chi^2$/NDF: 24.4/15

Left Out: 1148.358+/-343.809 $\chi^2$/NDF:17.1/6

Right Out: -923.649+/-403.102 $\chi^2$/NDF: 11.2/18

Left In: -427.113+/-346.238 $\chi^2$/NDF:2.9/5

Left: 366.168+/-243.964 $\chi^2$/NDF: 30.5/12

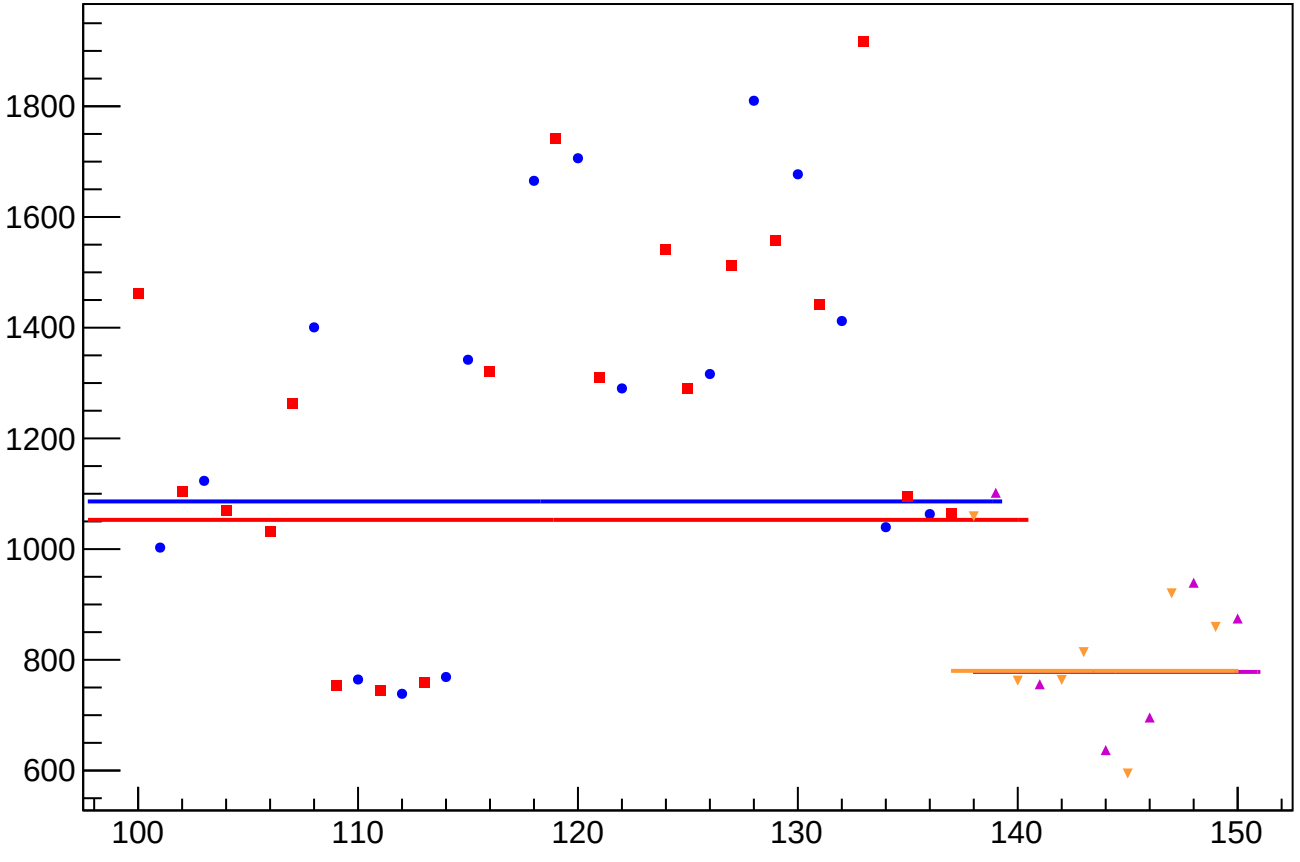
Right: -374.204+/-291.435 $\chi^2$/NDF: 39.5/34

In: -163.619+/-267.632 $\chi^2$/NDF:28.8/21

Out: 275.807+/-261.586 $\chi^2$/NDF:43.6/25

All: 61.114+/-187.070 $\chi^2$/NDF: 73.8/47

# asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 1086.137+/-0.298 $\chi^2$/NDF: 1047479.6/15

Left Out: 780.067+/-0.243 $\chi^2$/NDF:318215.5/6

Right Out: 1052.831+/-0.285 $\chi^2$/NDF: 1194420.8/18

Left In: 778.156+/-0.245 $\chi^2$/NDF:328567.2/5

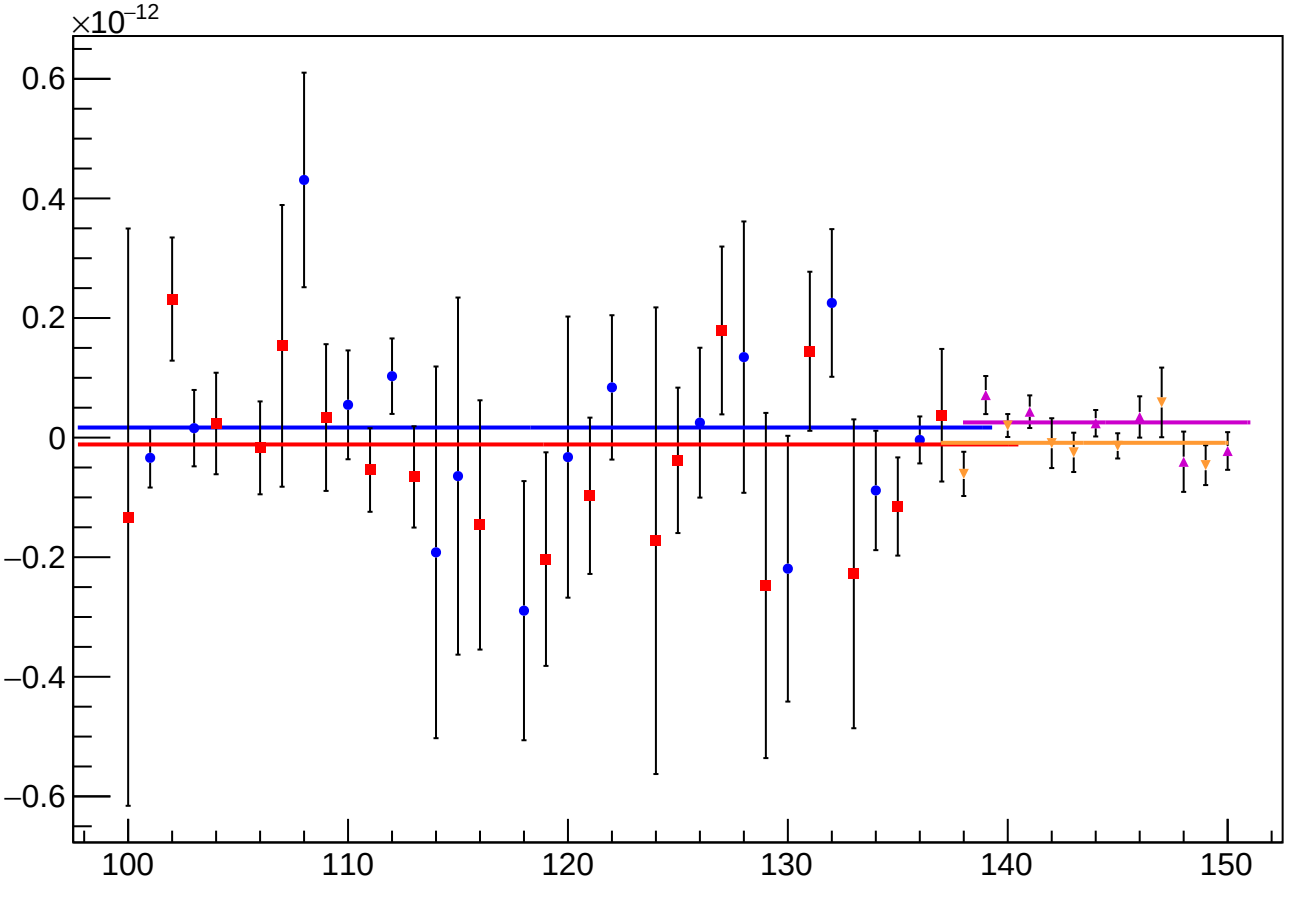
Left: 779.118+/-0.173 $\chi^2$/NDF: 646813.4/12

Right: 1068.728+/-0.206 $\chi^2$/NDF: 2248417.5/34

In: 902.124+/-0.189 $\chi^2$/NDF:2013008.3/21

Out: 894.931+/-0.185 $\chi^2$/NDF:2042748.9/25

All: 898.445+/-0.132 $\chi^2$/NDF: 4056496.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.6/5

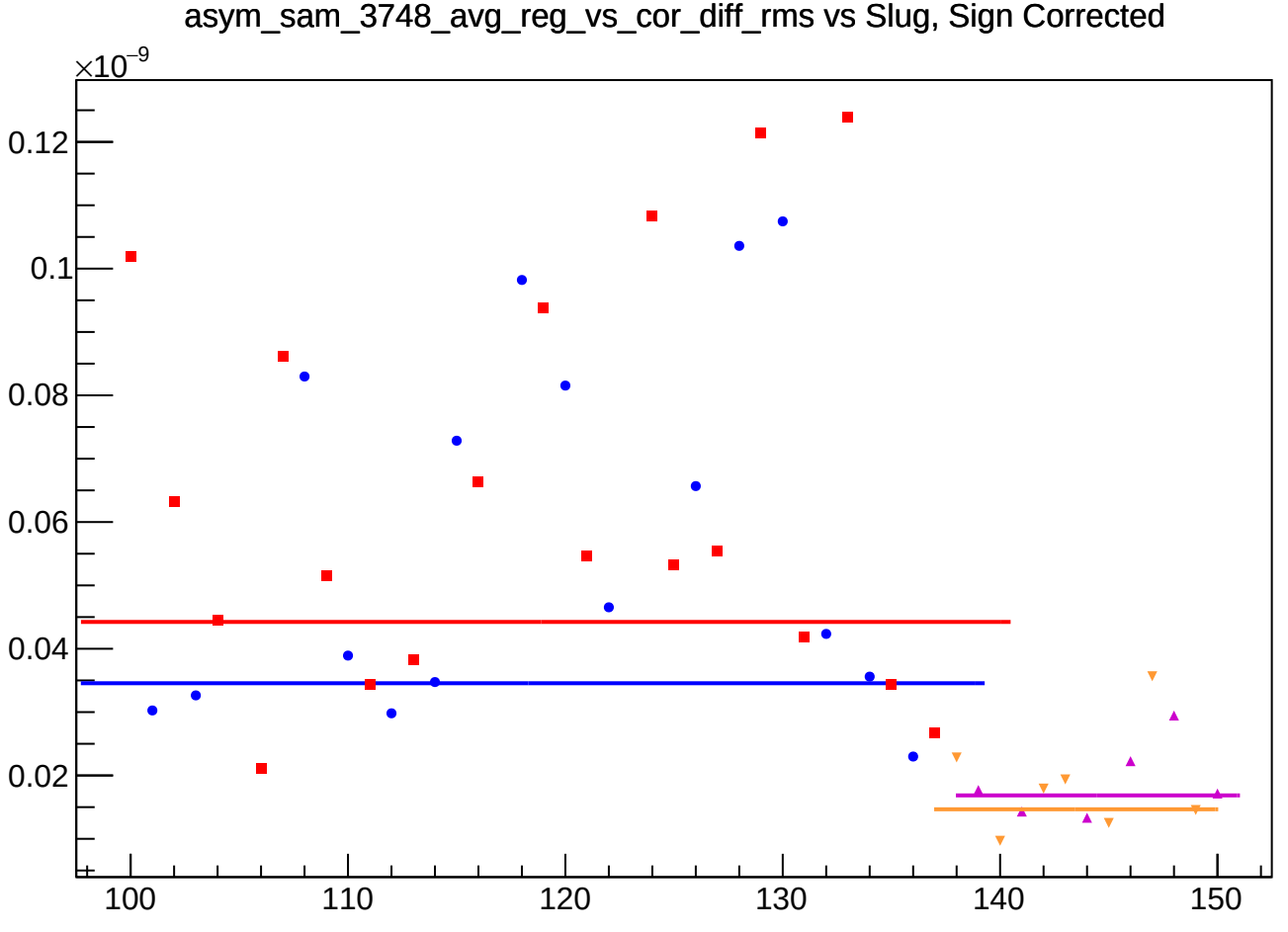
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:23.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 51.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1188815.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:566103.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1073061.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:243906.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 845580.8/12

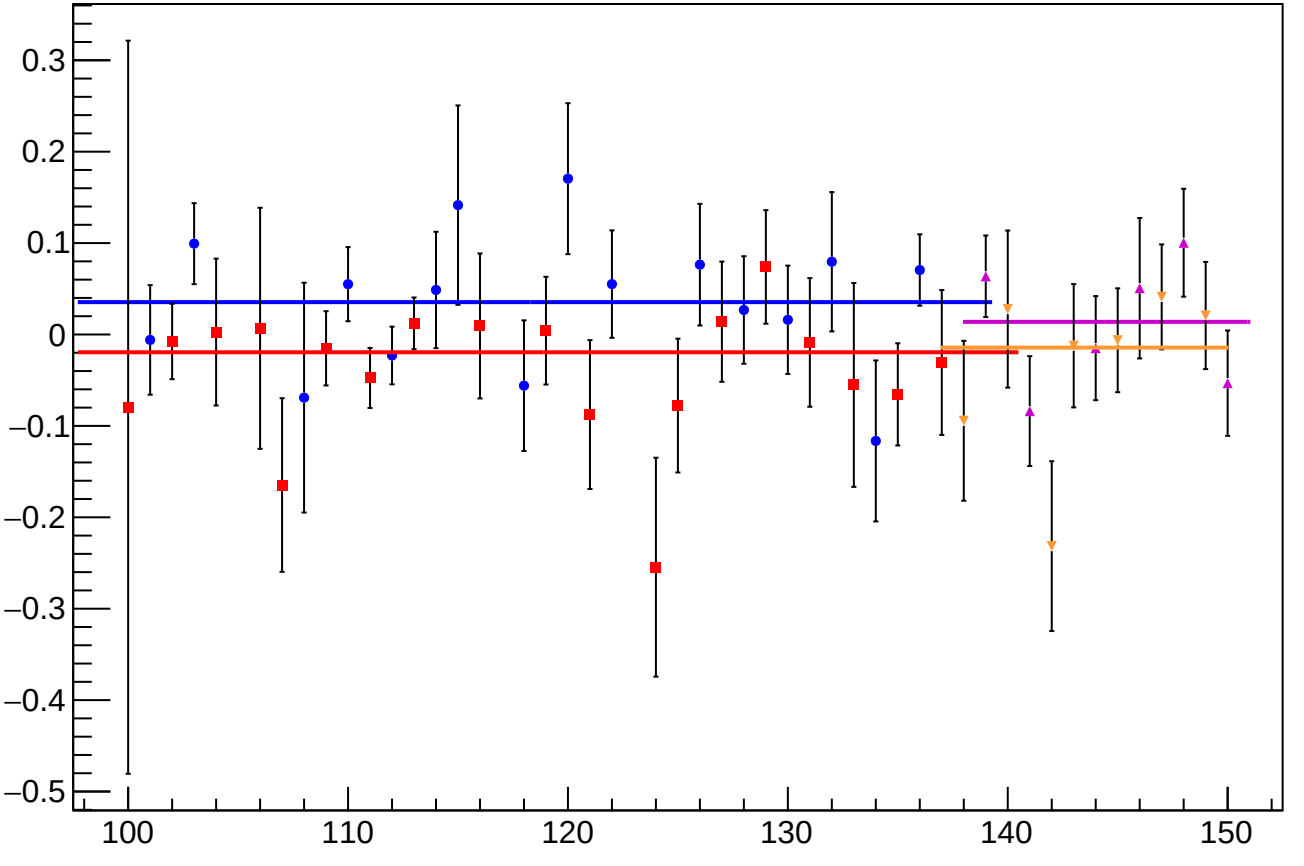
Right: 0.000+/-0.000 $\chi^2$/NDF: 2418011.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2431613.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3715153.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 6194503.7/47

asym_sam_3748_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.014+/-0.026 $\chi^2$/NDF:7.9/6

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.014+/-0.023 $\chi^2$/NDF:7.9/5

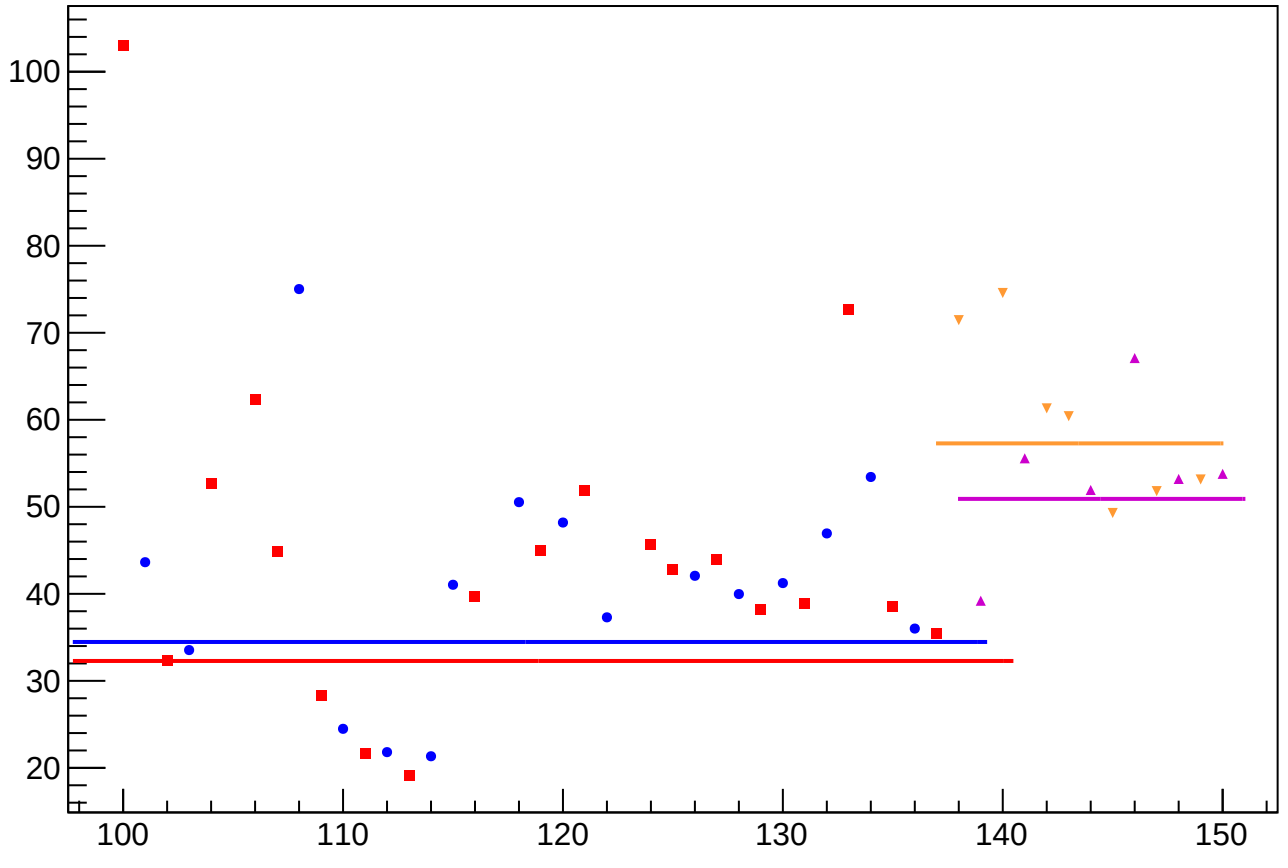
Left: 0.001+/-0.017 $\chi^2$/NDF: 16.4/12

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.012 $\chi^2$/NDF:25.5/21

Out: -0.018+/-0.012 $\chi^2$/NDF:21.3/25

All: 0.005+/-0.008 $\chi^2$/NDF: 55.0/47




Right In: 34.468+/-0.010 $\chi^2$/NDF: 1171203.3/15

Left Out: 57.288+/-0.018 $\chi^2$/NDF:209244.0/6

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672637.0/18

Left In: 50.911+/-0.016 $\chi^2$/NDF:247049.0/5

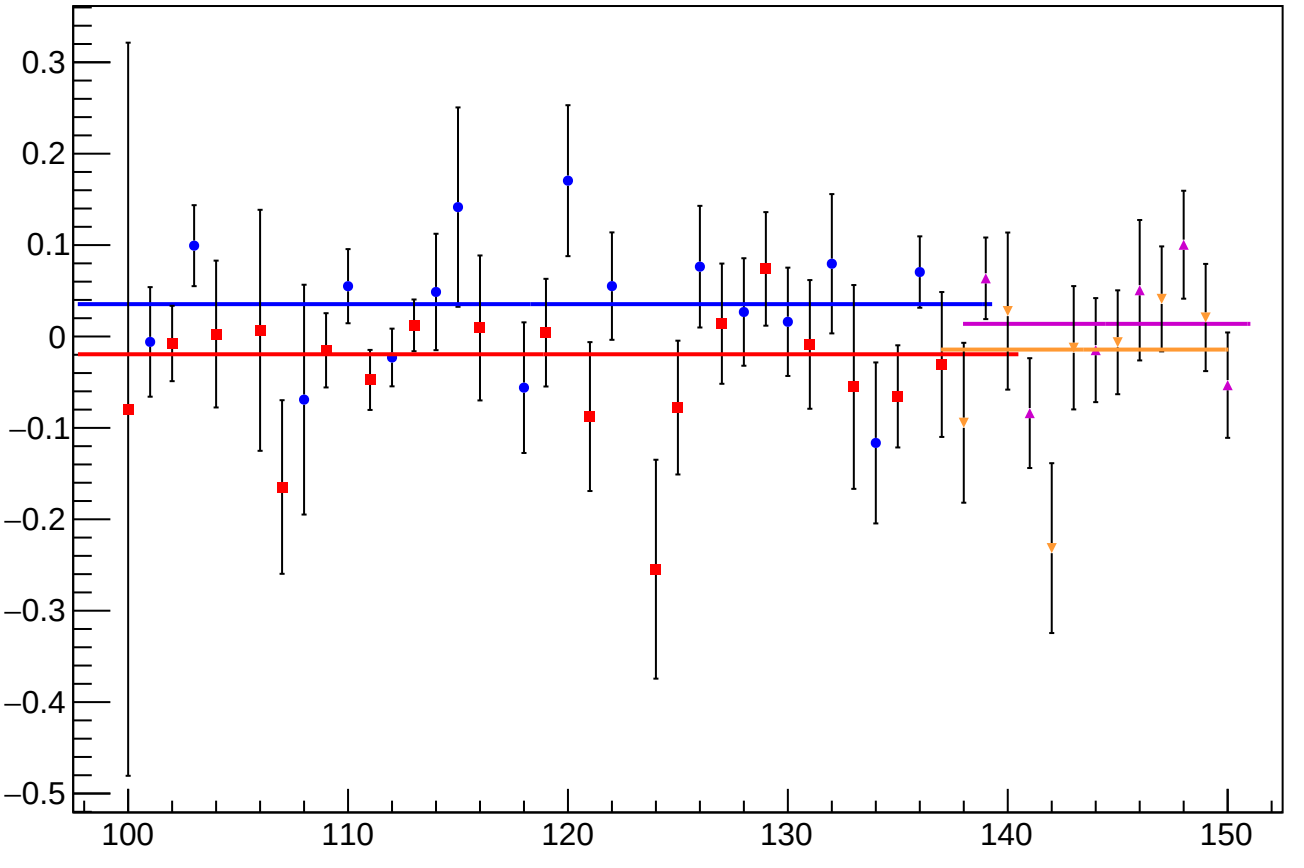
Left: 53.776+/-0.012 $\chi^2$/NDF: 523729.7/12

Right: 33.314+/-0.007 $\chi^2$/NDF: 2869944.8/34

In: 38.785+/-0.008 $\chi^2$/NDF:2154005.6/21

Out: 37.432+/-0.008 $\chi^2$/NDF:3376566.0/25

All: 38.095+/-0.006 $\chi^2$/NDF: 5543692.4/47




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.014+/-0.026 $\chi^2$/NDF:7.9/6

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.014+/-0.023 $\chi^2$/NDF:7.9/5

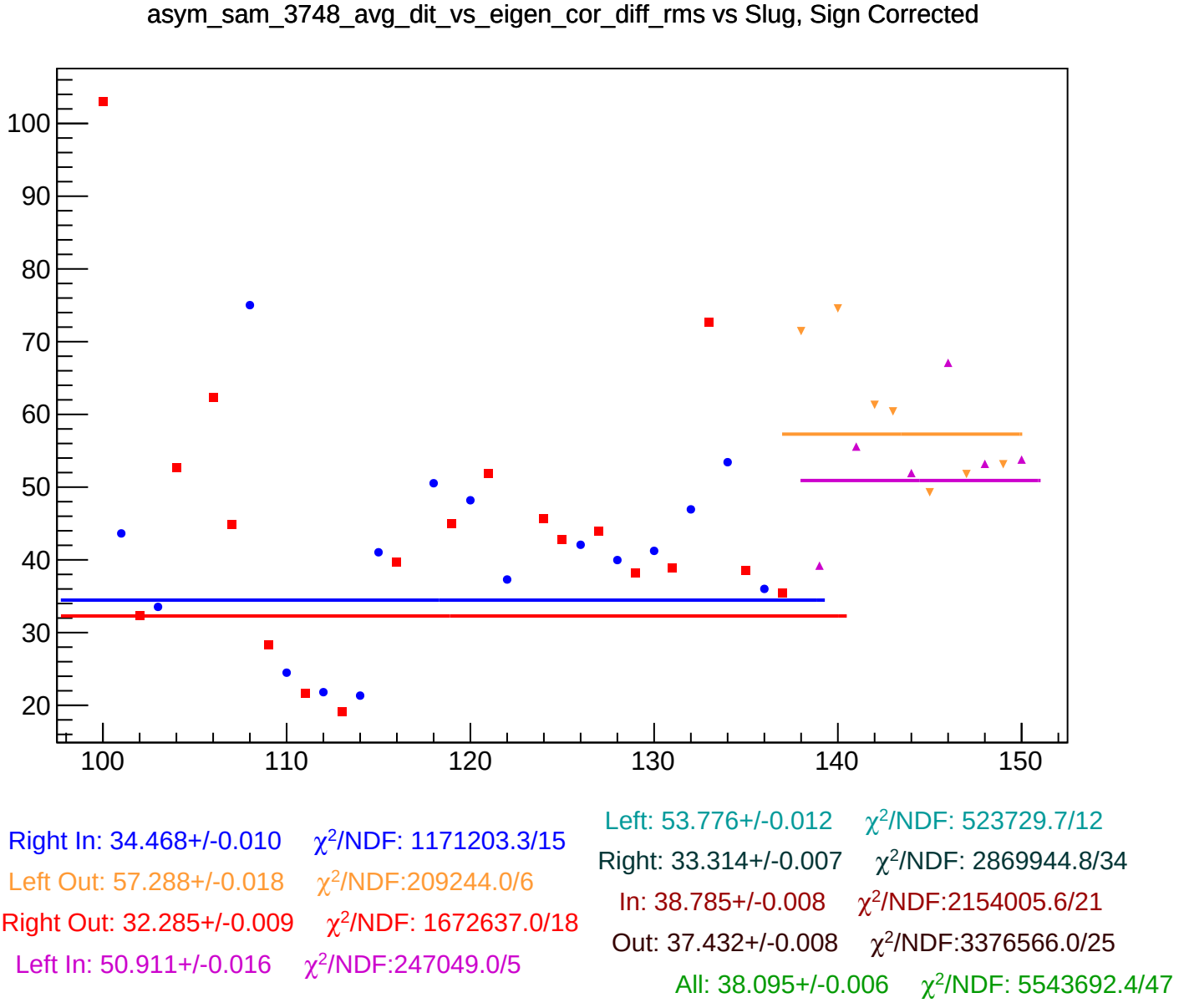
Left: 0.001+/-0.017 $\chi^2$/NDF: 16.4/12

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.012 $\chi^2$/NDF:25.5/21

Out: -0.018+/-0.012 $\chi^2$/NDF:21.3/25

All: 0.005+/-0.008 $\chi^2$/NDF: 55.0/47


asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
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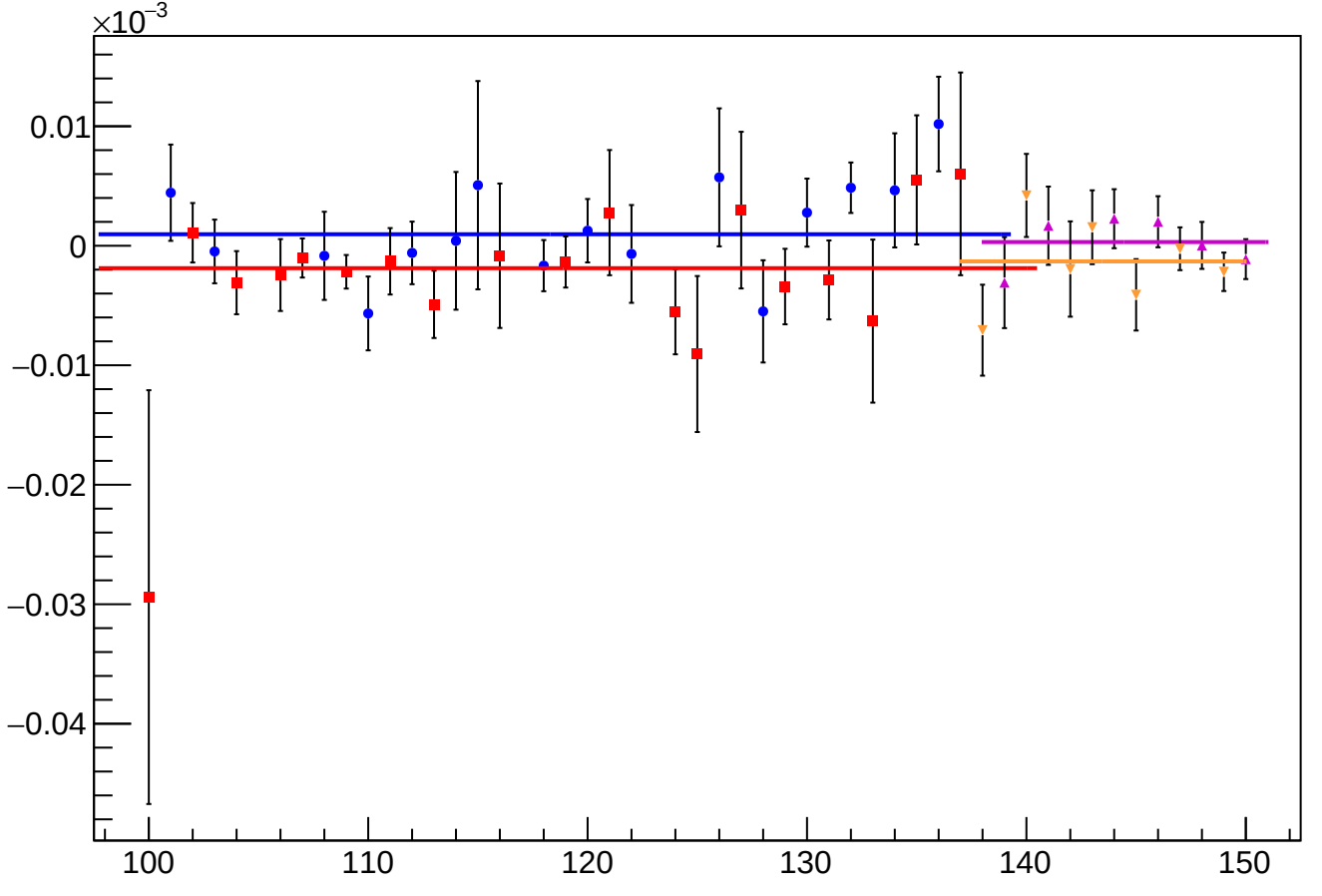
Right In: 34.468+/-0.010 χ²/NDF: 1171203.3/15
Left Out: 57.288+/-0.018 χ²/NDF:209244.0/6
Right Out: 32.285+/-0.009 χ²/NDF: 1672637.0/18
Left In: 50.911+/-0.016 χ²/NDF:247049.0/5
Left: 53.776+/-0.012 χ²/NDF: 523729.7/12
Right: 33.314+/-0.007 χ²/NDF: 2869944.8/34
In: 38.785+/-0.008 χ²/NDF:2154005.6/21
Out: 37.432+/-0.008 χ²/NDF:3376566.0/25
All: 38.095+/-0.006 χ²/NDF: 5543692.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.0/5

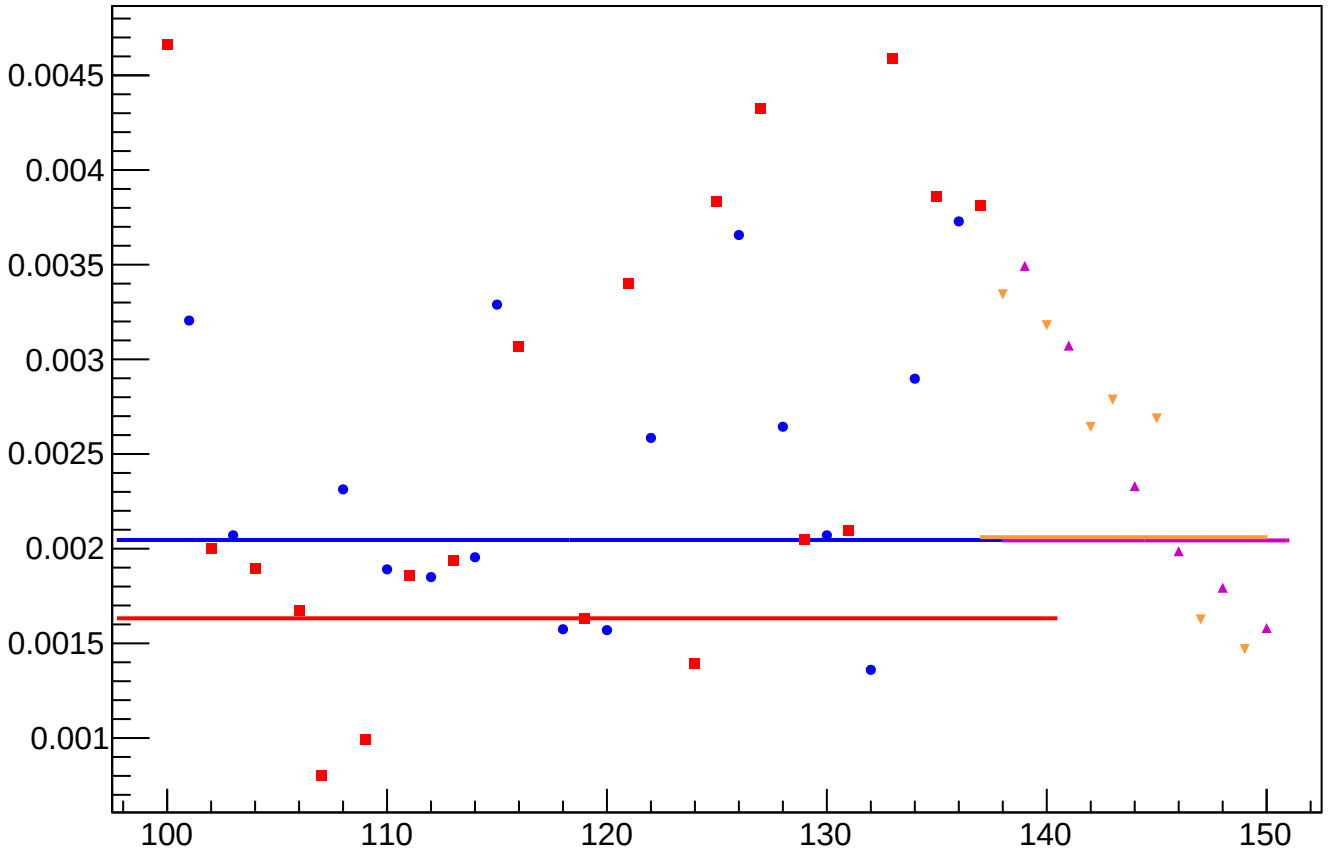
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.7/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:20.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 52.9/47




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1260485.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1063582.4/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2928991.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:701569.4/5

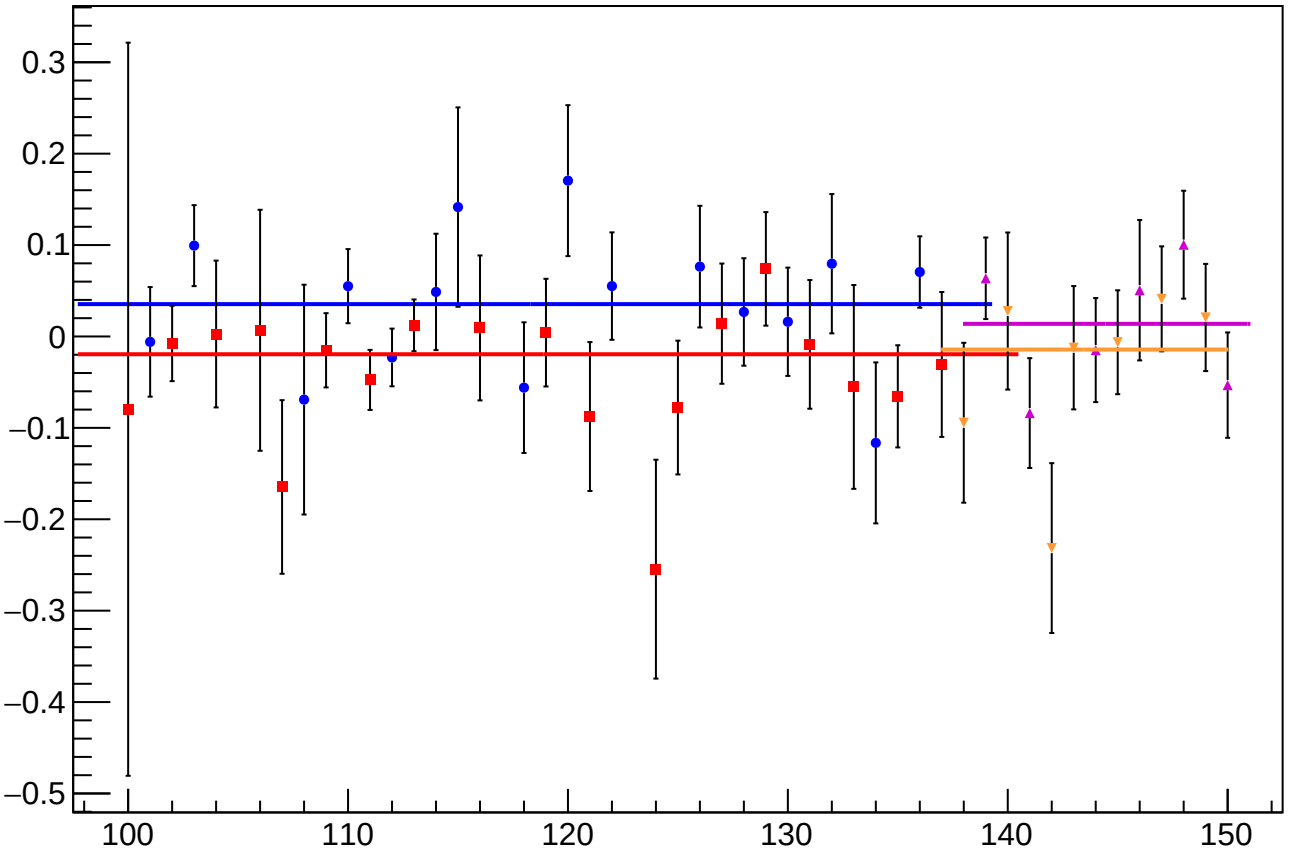
Left: 0.002+/-0.000 $\chi^2$/NDF: 1765483.4/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 4499888.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:1962062.6/21

Out: 0.002+/-0.000 $\chi^2$/NDF:4267685.7/25

All: 0.002+/-0.000 $\chi^2$/NDF: 6445079.4/47




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.014+/-0.026 $\chi^2$/NDF:7.9/6

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.014+/-0.023 $\chi^2$/NDF:7.9/5

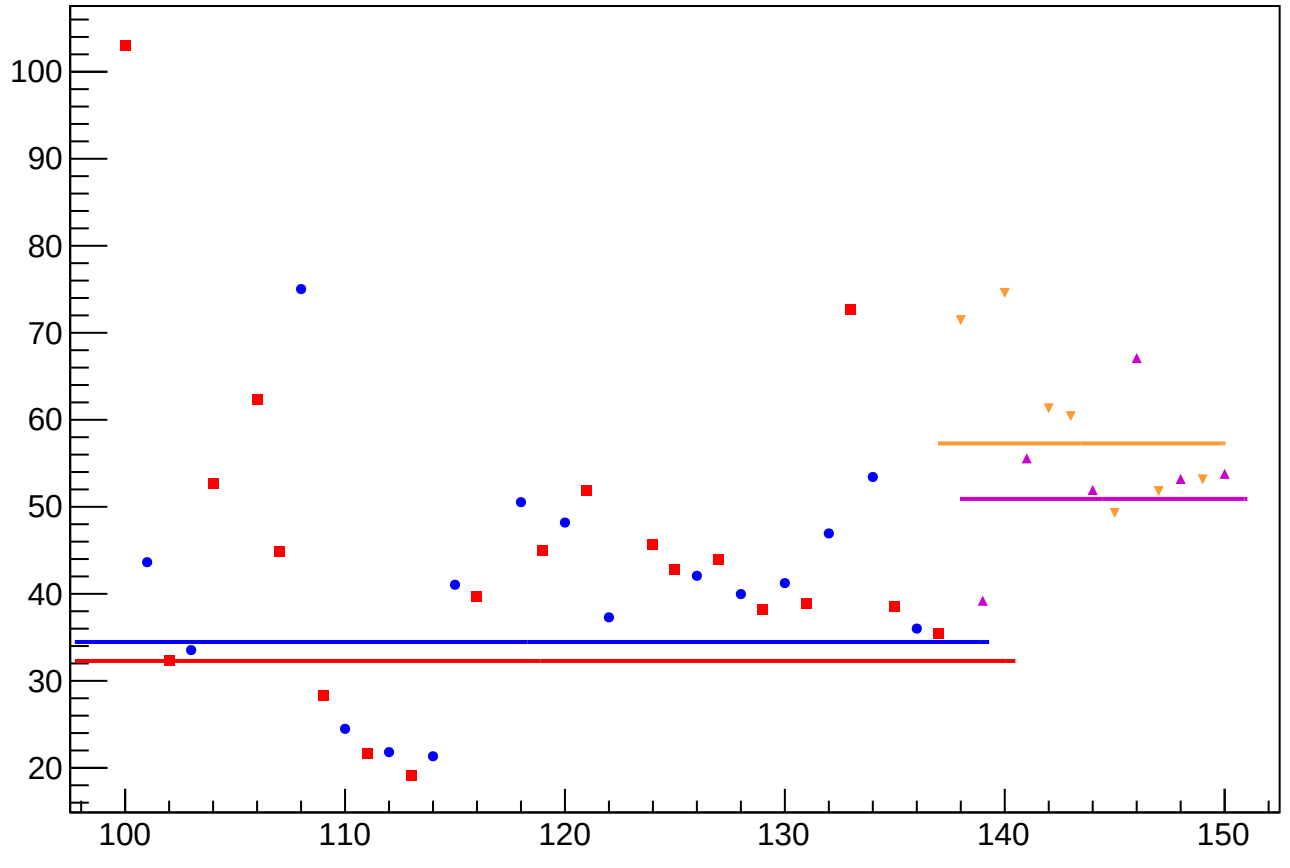
Left: 0.001+/-0.017 $\chi^2$/NDF: 16.4/12

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.012 $\chi^2$/NDF:25.5/21

Out: -0.018+/-0.012 $\chi^2$/NDF:21.3/25

All: 0.005+/-0.008 $\chi^2$/NDF: 55.0/47




Right In: 34.469+/-0.010 $\chi^2$/NDF: 1171158.4/15

Left Out: 57.289+/-0.018 $\chi^2$/NDF:209233.0/6

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672606.5/18

Left In: 50.911+/-0.016 $\chi^2$/NDF:247071.3/5

Left: 53.777+/-0.012 $\chi^2$/NDF: 523747.8/12

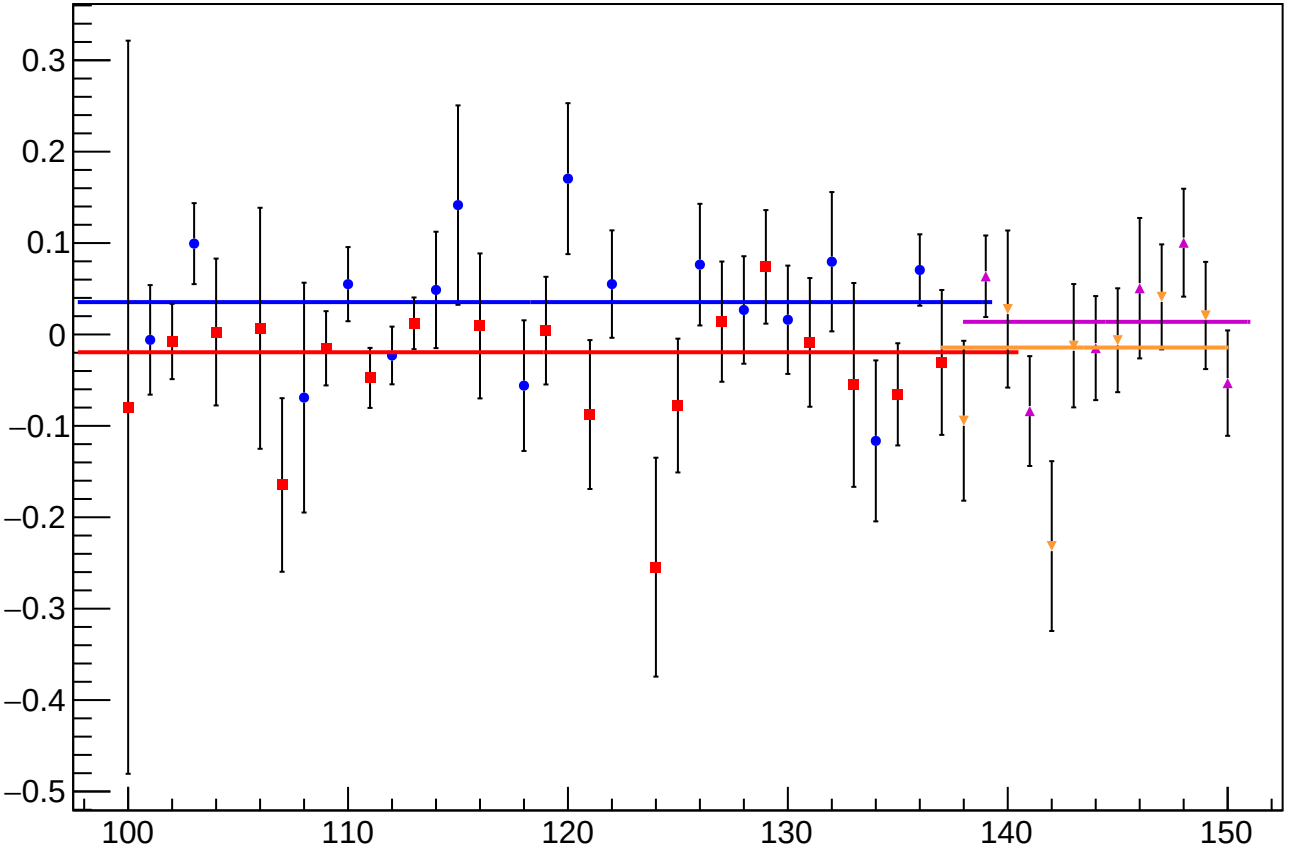
Right: 33.315+/-0.007 $\chi^2$/NDF: 2869868.2/34

In: 38.786+/-0.008 $\chi^2$/NDF:2153970.3/21

Out: 37.433+/-0.008 $\chi^2$/NDF:3376530.8/25

All: 38.096+/-0.006 $\chi^2$/NDF: 5543620.1/47

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.014+/-0.026 $\chi^2$/NDF:7.9/6

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.014+/-0.023 $\chi^2$/NDF:7.9/5

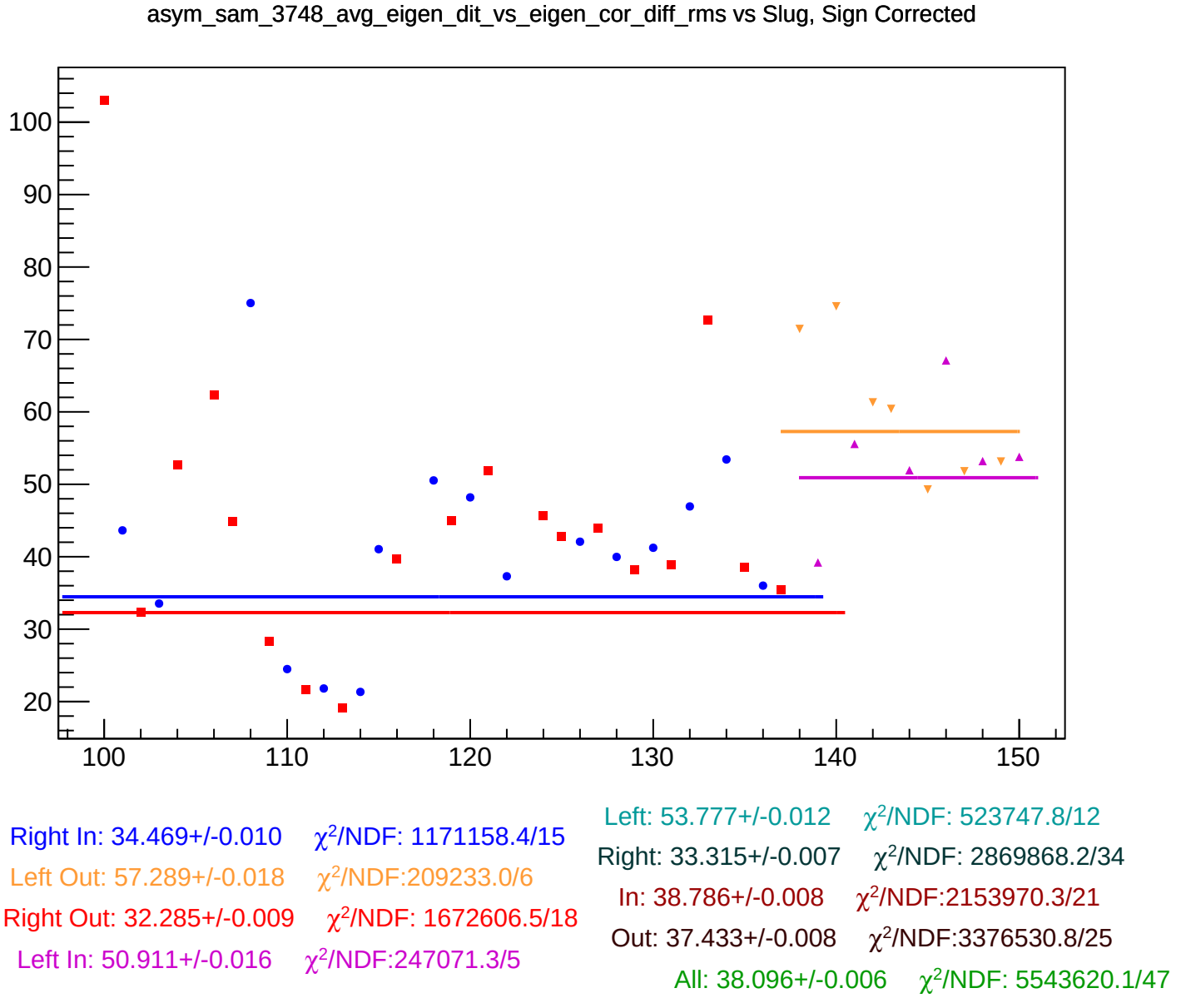
Left: 0.001+/-0.017 $\chi^2$/NDF: 16.4/12

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.012 $\chi^2$/NDF:25.5/21

Out: -0.018+/-0.012 $\chi^2$/NDF:21.3/25

All: 0.005+/-0.008 $\chi^2$/NDF: 55.0/47


asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
100
90
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70
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50
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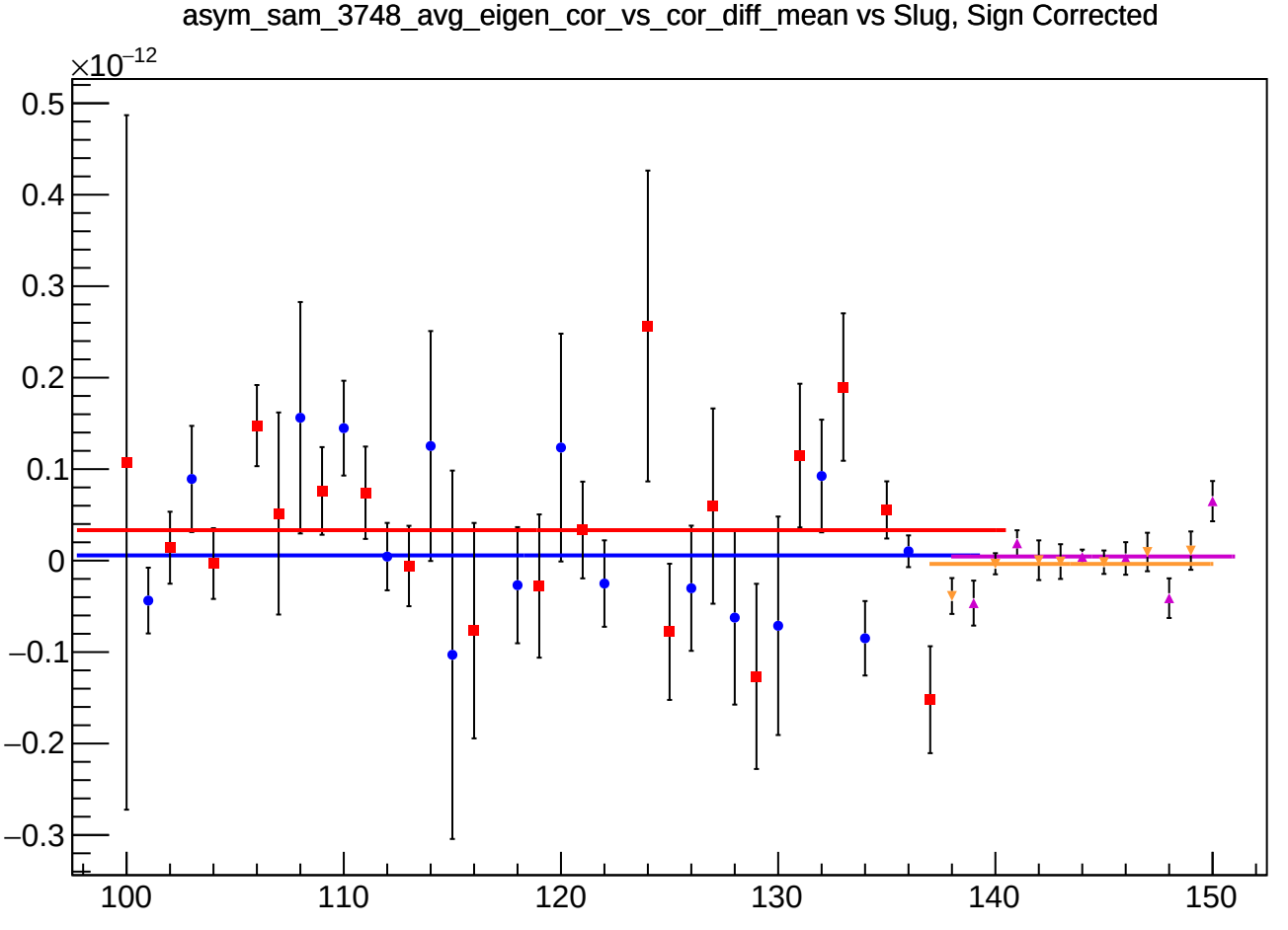
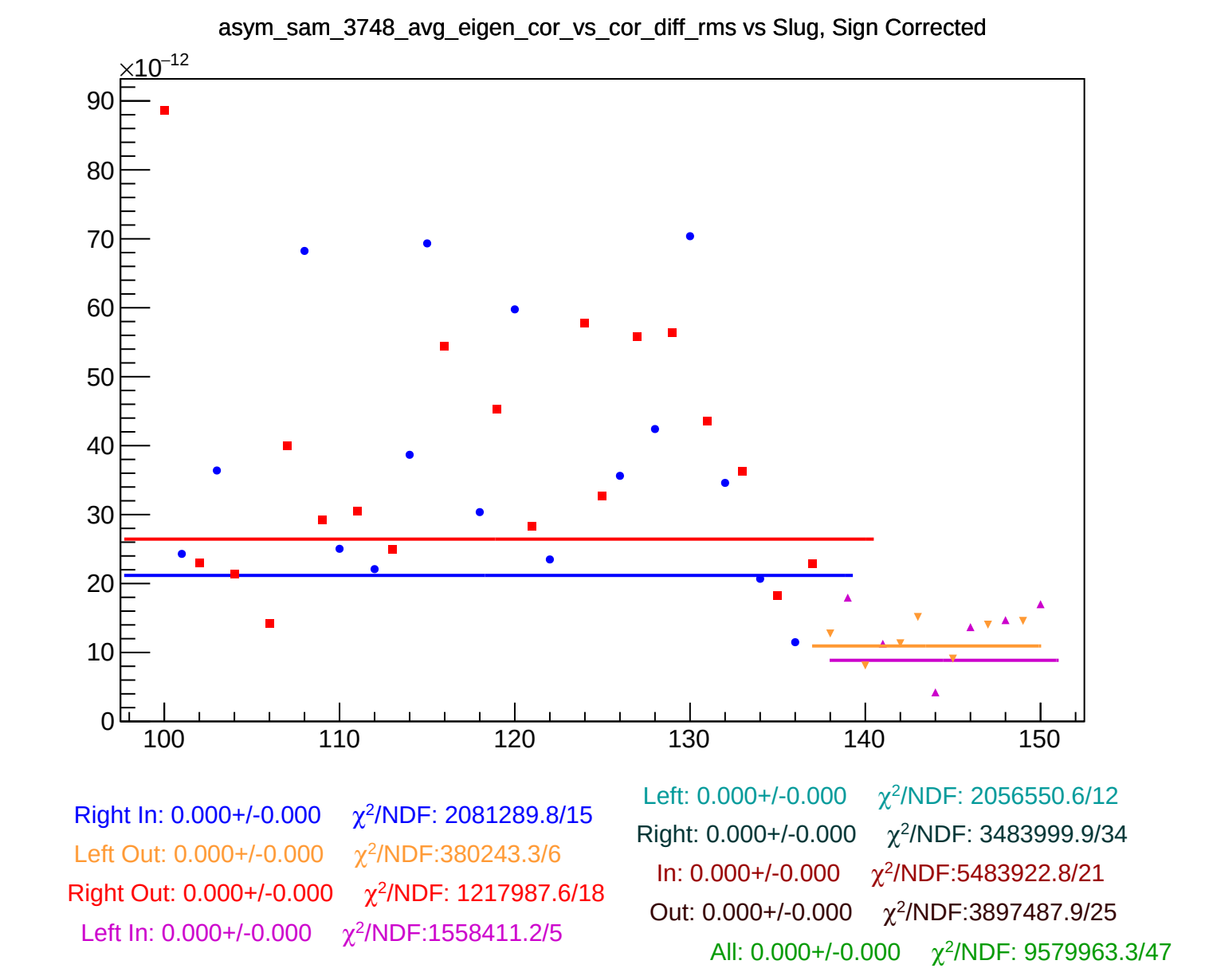
30
20
100
110
120
130
140
150
Right In: 34.469+/-0.010 χ²/NDF: 1171158.4/15
Left Out: 57.289+/-0.018 χ²/NDF:209233.0/6
Right Out: 32.285+/-0.009 χ²/NDF: 1672606.5/18
Left In: 50.911+/-0.016 χ²/NDF:247071.3/5
Left: 53.777+/-0.012 χ²/NDF: 523747.8/12
Right: 33.315+/-0.007 χ²/NDF: 2869868.2/34
In: 38.786+/-0.008 χ²/NDF:2153970.3/21
Out: 37.433+/-0.008 χ²/NDF:3376530.8/25
All: 38.096+/-0.006 χ²/NDF: 5543620.1/47


asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 23.6/15
Left Out: -0.000+/-0.000 χ²/NDF:4.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 33.5/18
Left In: 0.000+/-0.000 χ²/NDF:17.3/5
Left: 0.000+/-0.000 χ²/NDF: 22.4/12
Right: 0.000+/-0.000 χ²/NDF: 59.6/34
In: 0.000+/-0.000 χ²/NDF:40.9/21
Out: 0.000+/-0.000 χ²/NDF:44.1/25
All: 0.000+/-0.000 χ²/NDF: 85.1/47


asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
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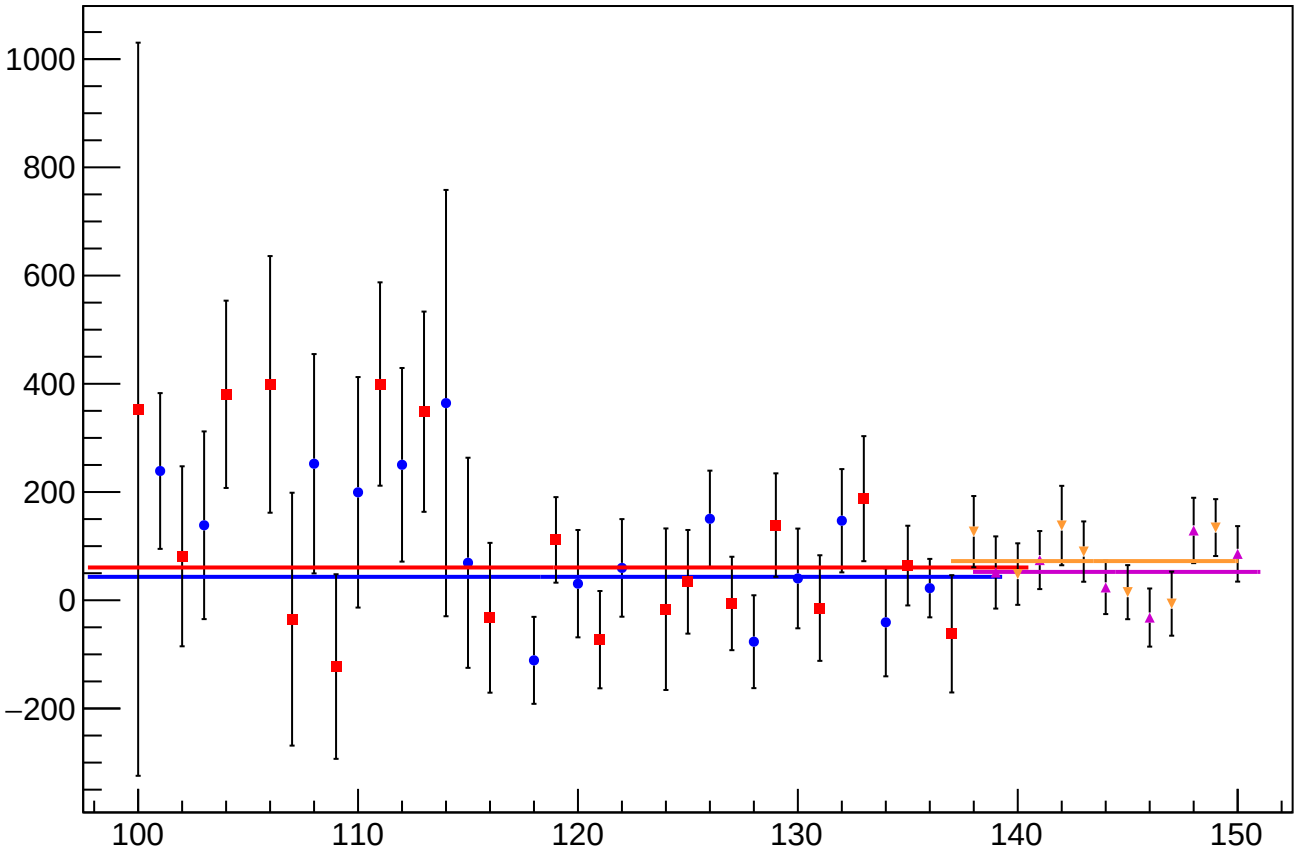
70
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2081289.8/15
Left Out: 0.000+/-0.000 χ²/NDF:380243.3/6
Right Out: 0.000+/-0.000 χ²/NDF: 1217987.6/18
Left In: 0.000+/-0.000 χ²/NDF:1558411.2/5
Left: 0.000+/-0.000 χ²/NDF: 2056550.6/12
Right: 0.000+/-0.000 χ²/NDF: 3483999.9/34
In: 0.000+/-0.000 χ²/NDF:5483922.8/21
Out: 0.000+/-0.000 χ²/NDF:3897487.9/25
All: 0.000+/-0.000 χ²/NDF: 9579963.3/47




Right In: 43.247+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.366+/-21.843 $\chi^2$/NDF:6.2/6

Right Out: 60.582+/-26.894 $\chi^2$/NDF: 20.4/18

Left In: 52.394+/-22.445 $\chi^2$/NDF:5.0/5

Left: 62.651+/-15.654 $\chi^2$/NDF: 11.6/12

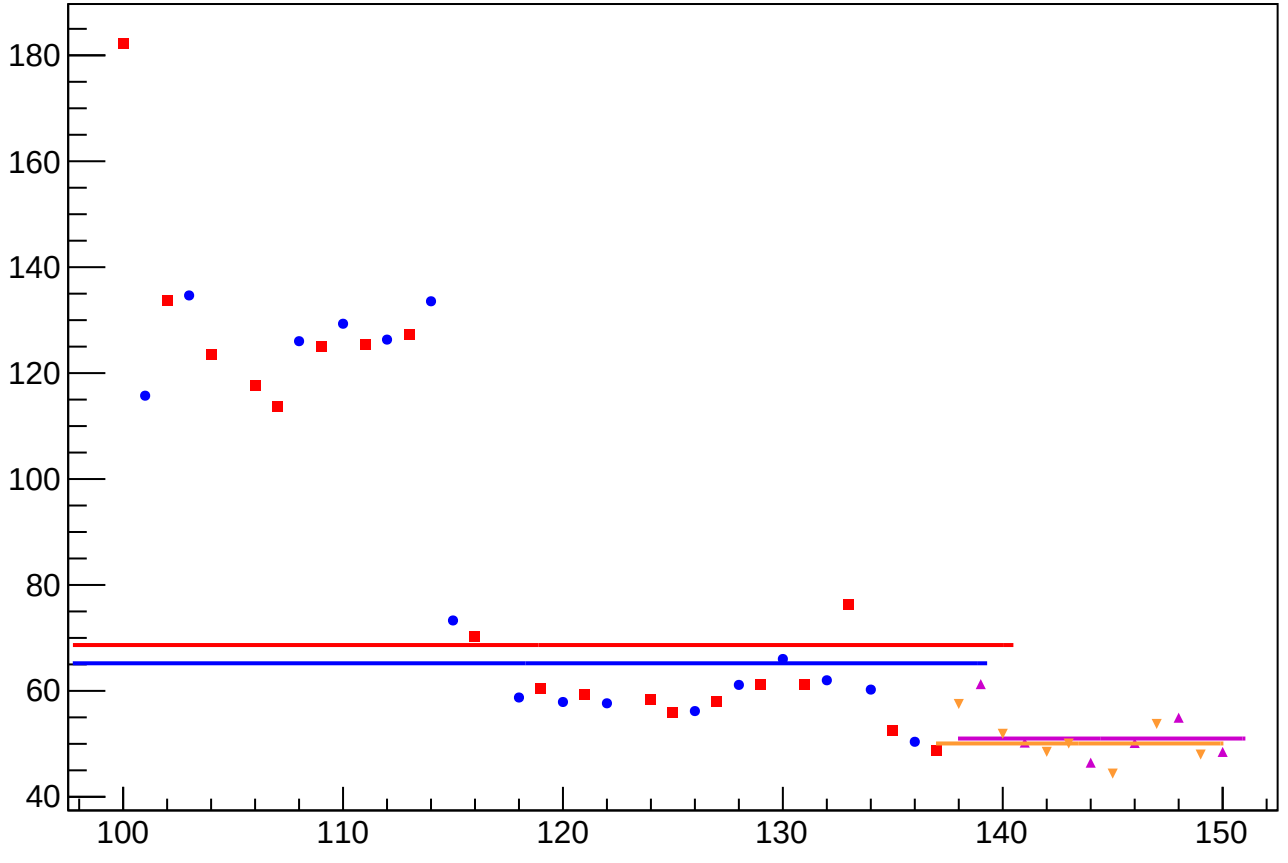
Right: 51.548+/-18.611 $\chi^2$/NDF: 35.6/34

In: 48.450+/-16.928 $\chi^2$/NDF:20.0/21

Out: 67.682+/-16.956 $\chi^2$/NDF:26.8/25

All: 58.051+/-11.980 $\chi^2$/NDF: 47.4/47

# reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446504.6/15

Left Out: 50.072+/-0.015 $\chi^2$/NDF:65528.4/6

Right Out: 68.656+/-0.019 $\chi^2$/NDF: 1640900.1/18

Left In: 51.004+/-0.016 $\chi^2$/NDF:78775.7/5

Left: 50.525+/-0.011 $\chi^2$/NDF: 146073.9/12

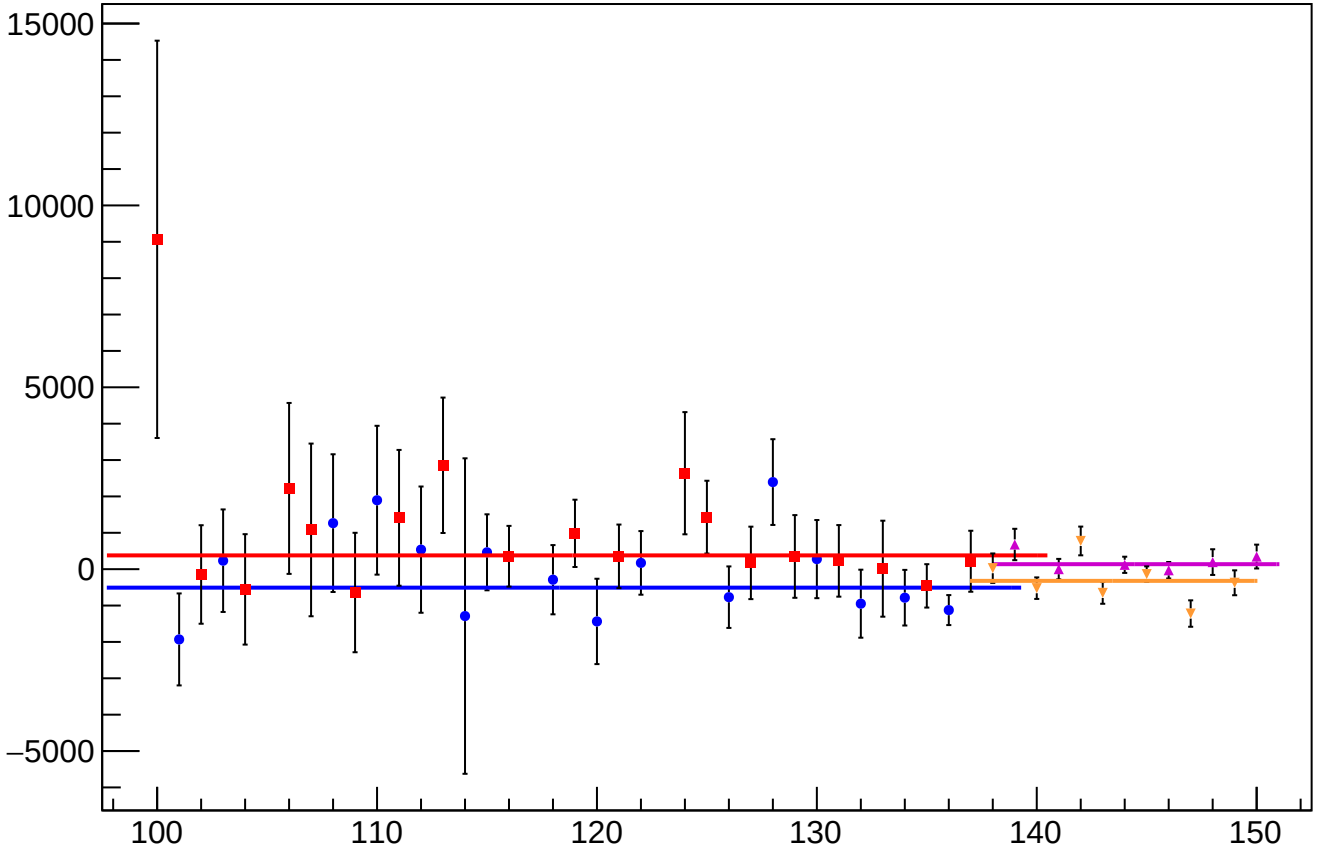
Right: 66.862+/-0.013 $\chi^2$/NDF: 3104495.7/34

In: 57.130+/-0.012 $\chi^2$/NDF:1870844.9/21

Out: 57.459+/-0.012 $\chi^2$/NDF:2281836.4/25

All: 57.294+/-0.008 $\chi^2$/NDF: 4153057.6/47

asym_sam_1526_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -507.928+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -321.455+/-116.794 $\chi^2$/NDF:17.0/6

Right Out: 378.892+/-256.407 $\chi^2$/NDF: 11.7/18

Left In: 137.245+/-115.443 $\chi^2$/NDF:2.8/5

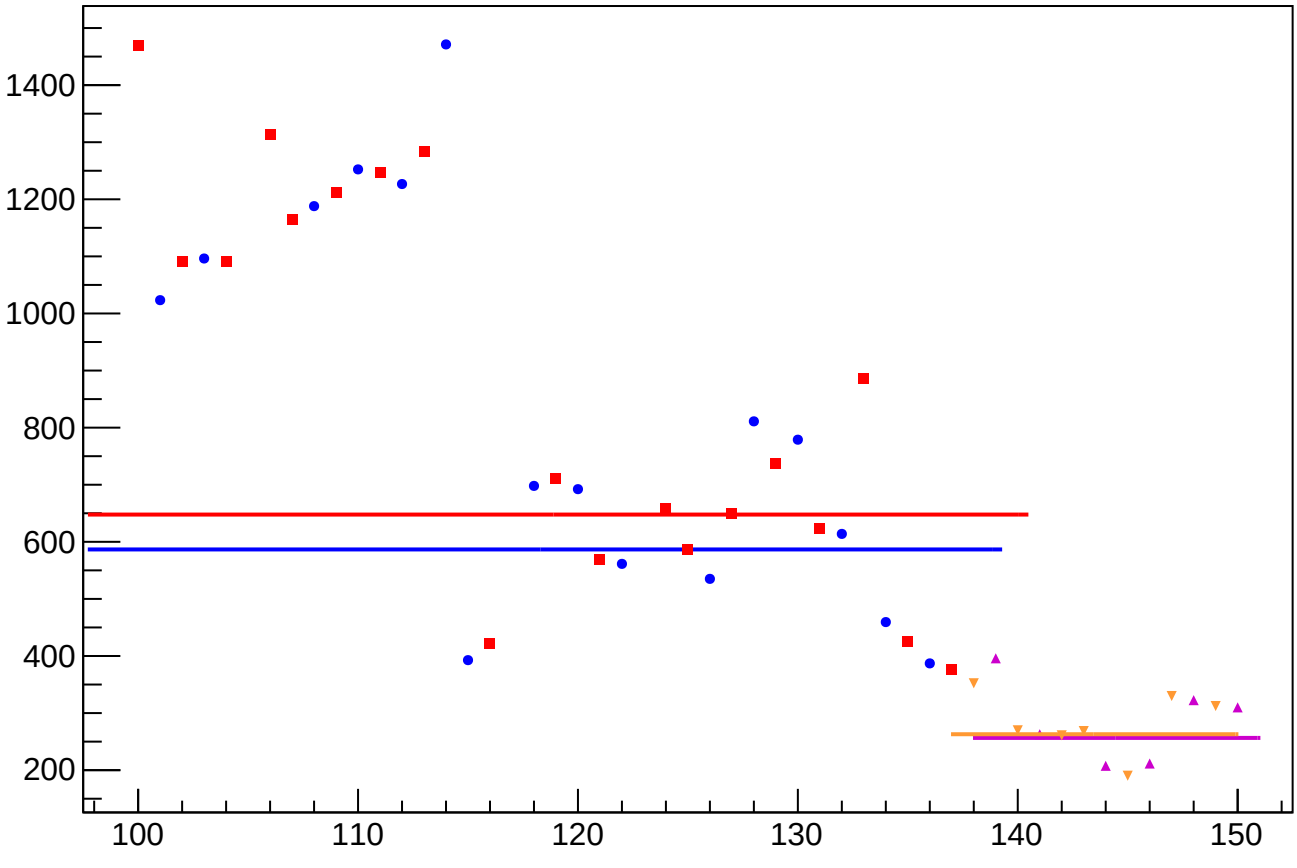
Left: -89.437+/-82.104 $\chi^2$/NDF: 27.6/12

Right: -99.449+/-174.019 $\chi^2$/NDF: 33.8/34

In: 13.475+/-103.781 $\chi^2$/NDF:24.4/21

Out: -201.114+/-106.287 $\chi^2$/NDF:35.0/25

All: -91.260+/-74.254 $\chi^2$/NDF: 61.5/47




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053133.2/15

Left Out: 262.950+/-0.083 $\chi^2$/NDF:441521.5/6

Right Out: 647.736+/-0.181 $\chi^2$/NDF: 2105638.0/18

Left In: 256.511+/-0.082 $\chi^2$/NDF:508692.5/5

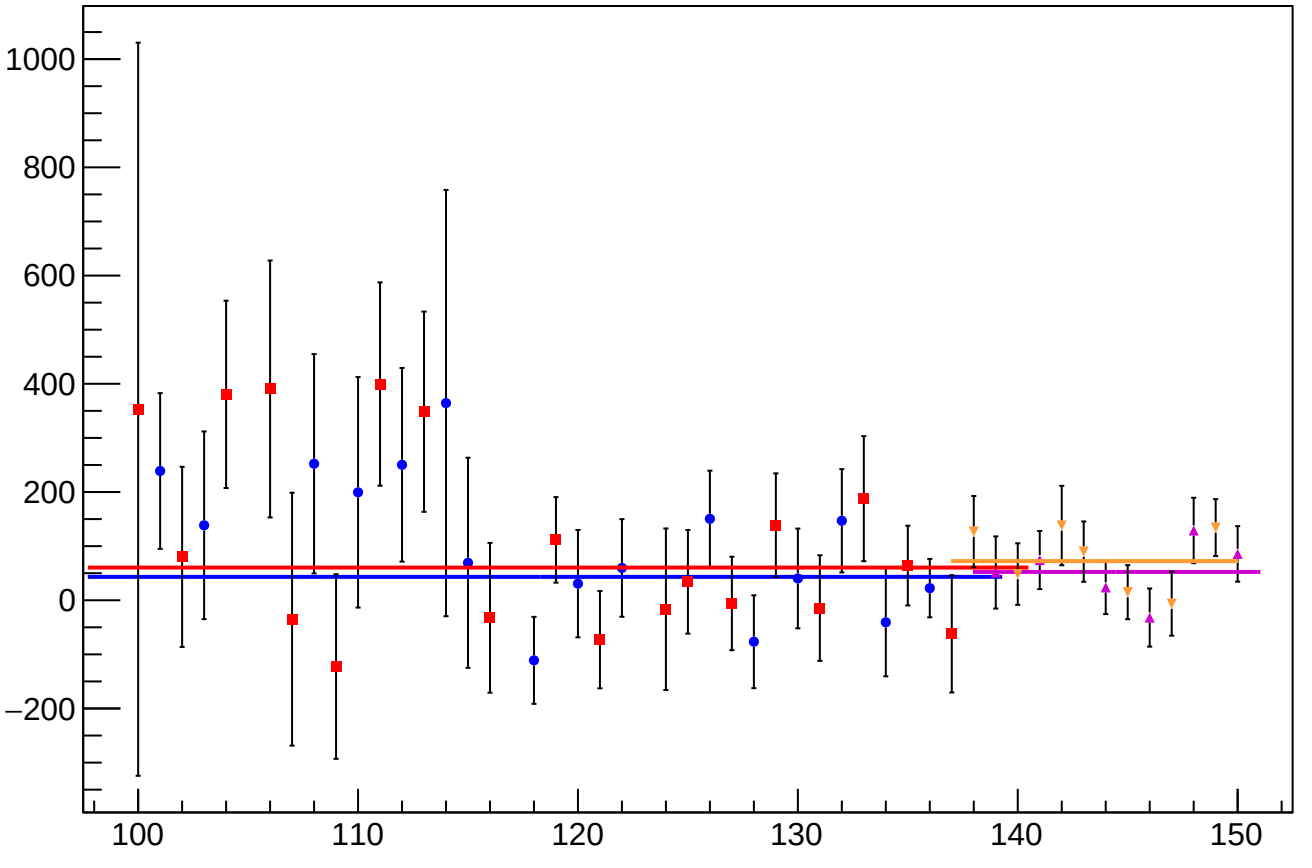
Left: 259.693+/-0.058 $\chi^2$/NDF: 953288.9/12

Right: 614.784+/-0.123 $\chi^2$/NDF: 4220010.2/34

In: 319.843+/-0.073 $\chi^2$/NDF:5699556.6/21

Out: 329.068+/-0.075 $\chi^2$/NDF:6277329.9/25

All: 324.345+/-0.053 $\chi^2$/NDF: 11984597.8/47




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.372+/-21.843 $\chi^2$/NDF:6.2/6

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 52.393+/-22.445 $\chi^2$/NDF:5.0/5

Left: 62.654+/-15.654 $\chi^2$/NDF: 11.6/12

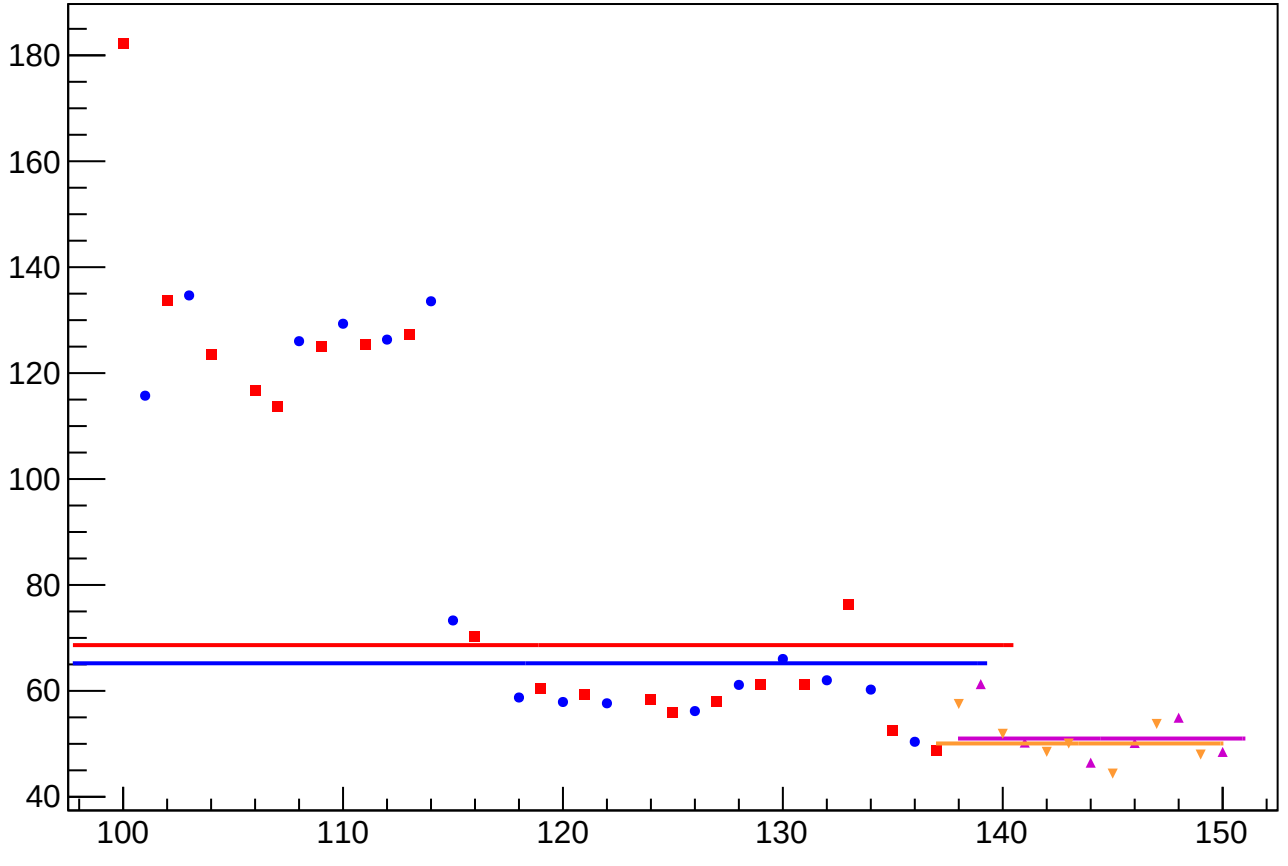
Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 48.446+/-16.928 $\chi^2$/NDF:20.0/21

Out: 67.626+/-16.956 $\chi^2$/NDF:26.7/25

All: 58.021+/-11.980 $\chi^2$/NDF: 47.3/47

# cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 50.072+/-0.015 $\chi^2$/NDF:65528.4/6

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 51.004+/-0.016 $\chi^2$/NDF:78775.7/5

Left: 50.525+/-0.011 $\chi^2$/NDF: 146073.9/12

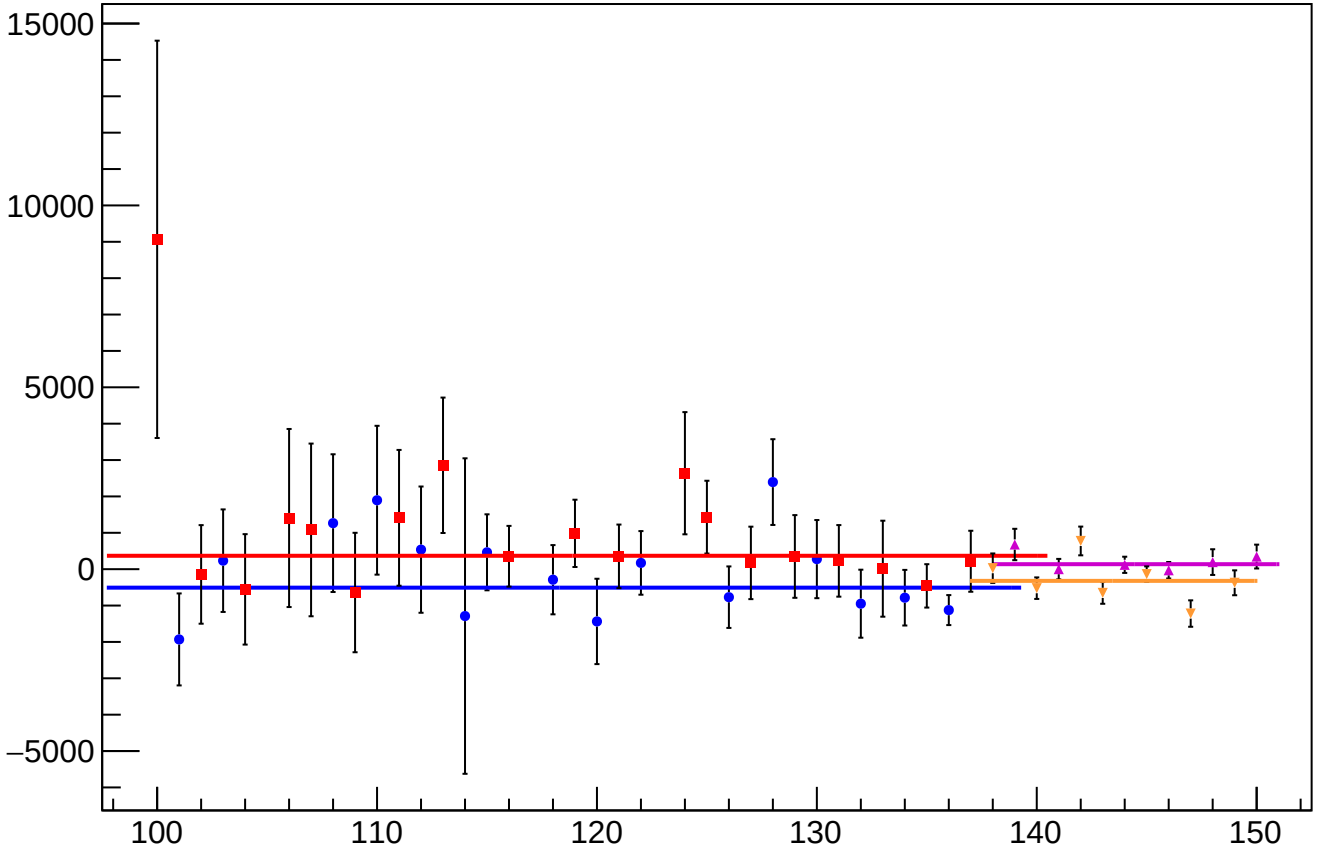
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 57.130+/-0.012 $\chi^2$/NDF:1870847.1/21

Out: 57.453+/-0.012 $\chi^2$/NDF:2277581.8/25

All: 57.291+/-0.008 $\chi^2$/NDF: 4148791.6/47

asym_sam_1526_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -507.911+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -321.449+/-116.794 $\chi^2$/NDF:17.0/6

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 137.245+/-115.443 $\chi^2$/NDF:2.8/5

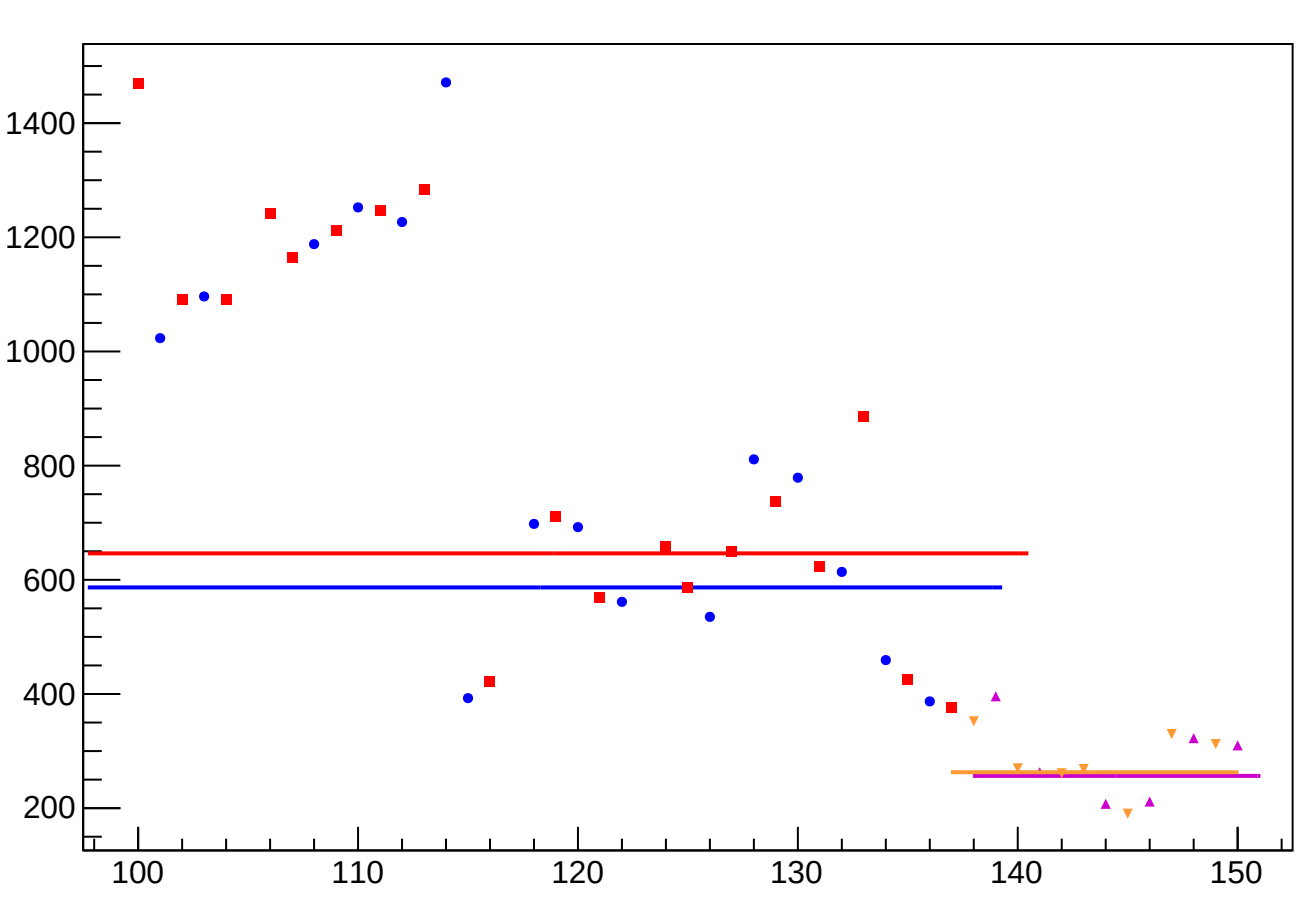
Left: -89.435+/-82.104 $\chi^2$/NDF: 27.6/12

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: 13.478+/-103.781 $\chi^2$/NDF:24.4/21

Out: -203.021+/-106.296 $\chi^2$/NDF:34.3/25

All: -92.180+/-74.257 $\chi^2$/NDF: 60.9/47




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 262.949+/-0.083 $\chi^2$/NDF:441522.7/6

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 256.511+/-0.082 $\chi^2$/NDF:508690.3/5

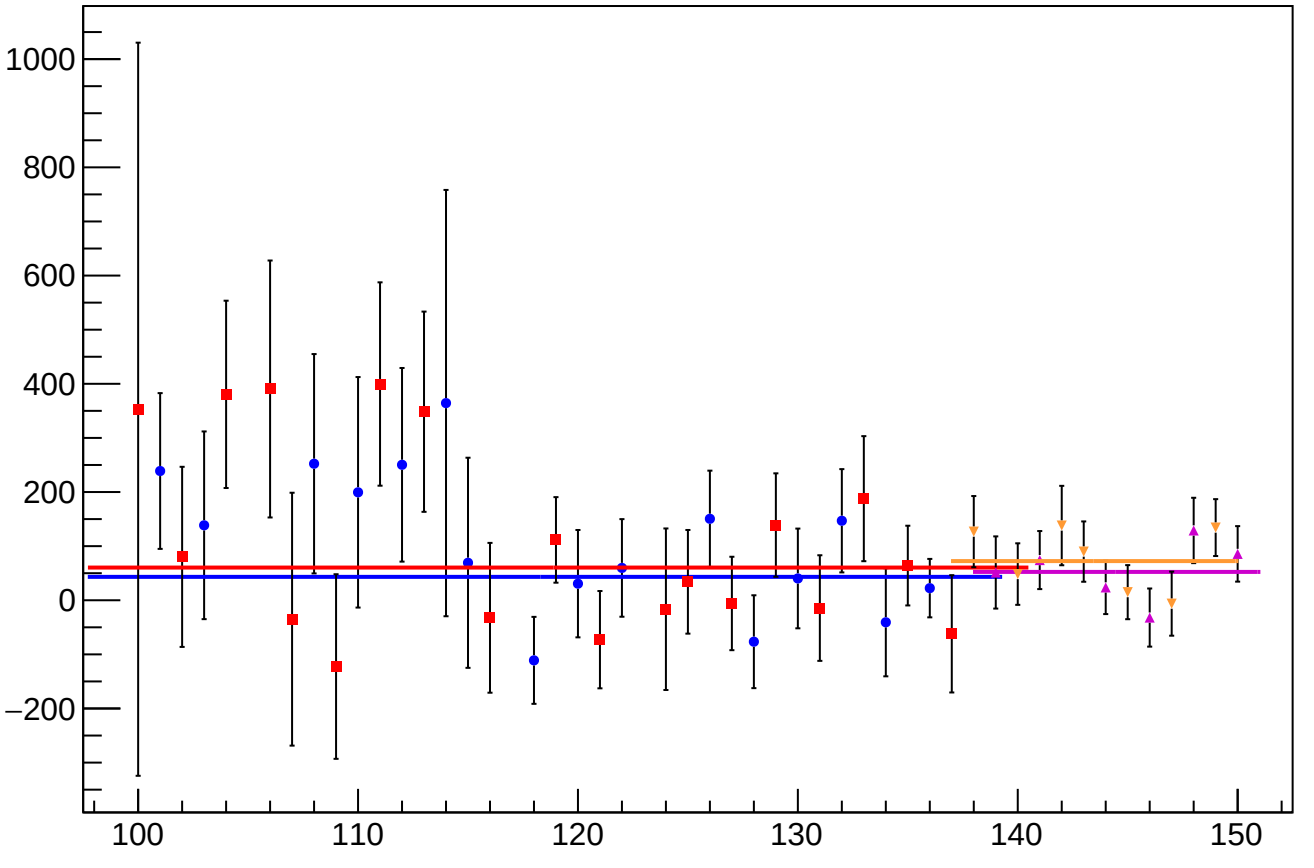
Left: 259.693+/-0.058 $\chi^2$/NDF: 953287.6/12

Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 319.843+/-0.073 $\chi^2$/NDF:5699574.6/21

Out: 328.771+/-0.075 $\chi^2$/NDF:6204600.6/25

All: 324.200+/-0.053 $\chi^2$/NDF: 11911398.5/47




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.372+/-21.843 $\chi^2$/NDF:6.2/6

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 52.393+/-22.445 $\chi^2$/NDF:5.0/5

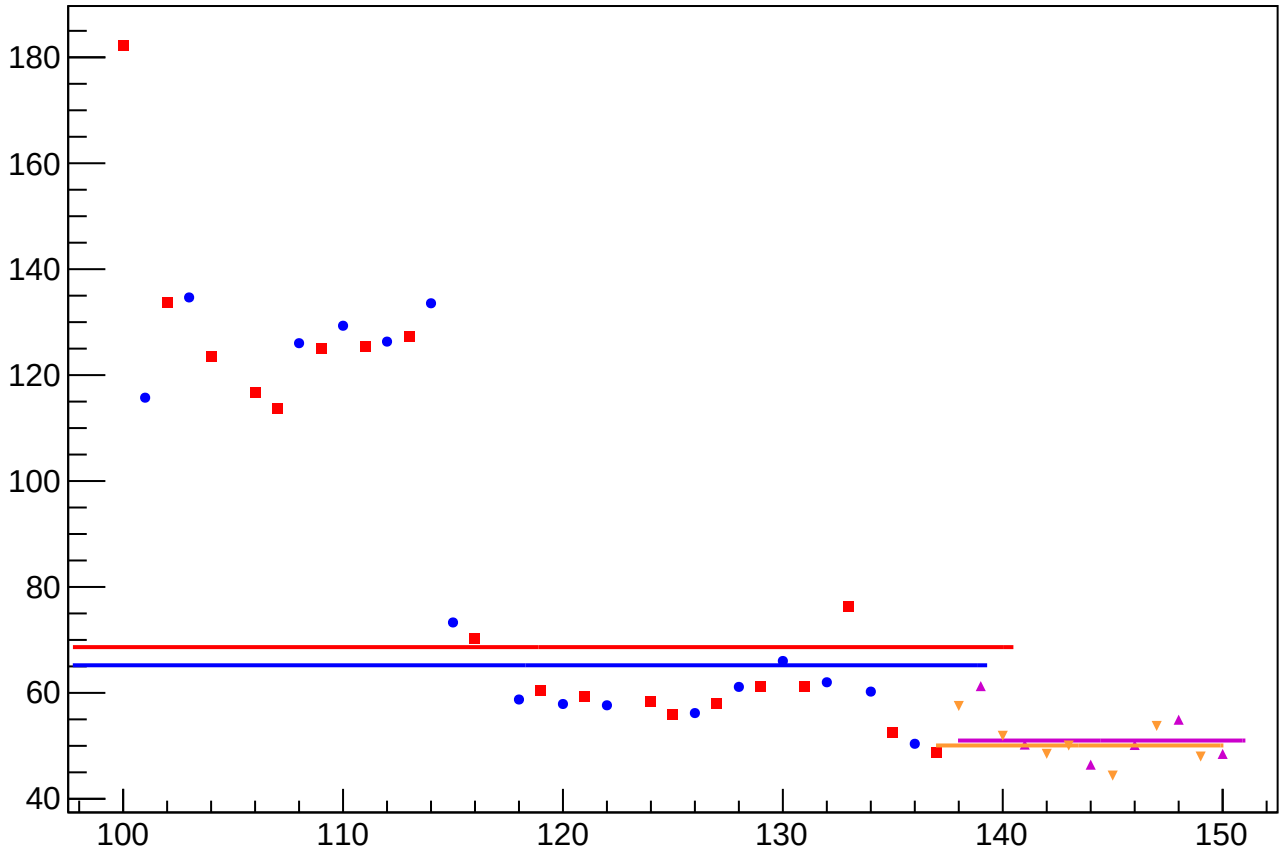
Left: 62.654+/-15.654 $\chi^2$/NDF: 11.6/12

Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 48.446+/-16.928 $\chi^2$/NDF:20.0/21

Out: 67.626+/-16.956 $\chi^2$/NDF:26.7/25

All: 58.021+/-11.980 $\chi^2$/NDF: 47.3/47




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 50.072+/-0.015 $\chi^2$/NDF:65528.4/6

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 51.004+/-0.016 $\chi^2$/NDF:78775.7/5

Left: 50.525+/-0.011 $\chi^2$/NDF: 146073.9/12

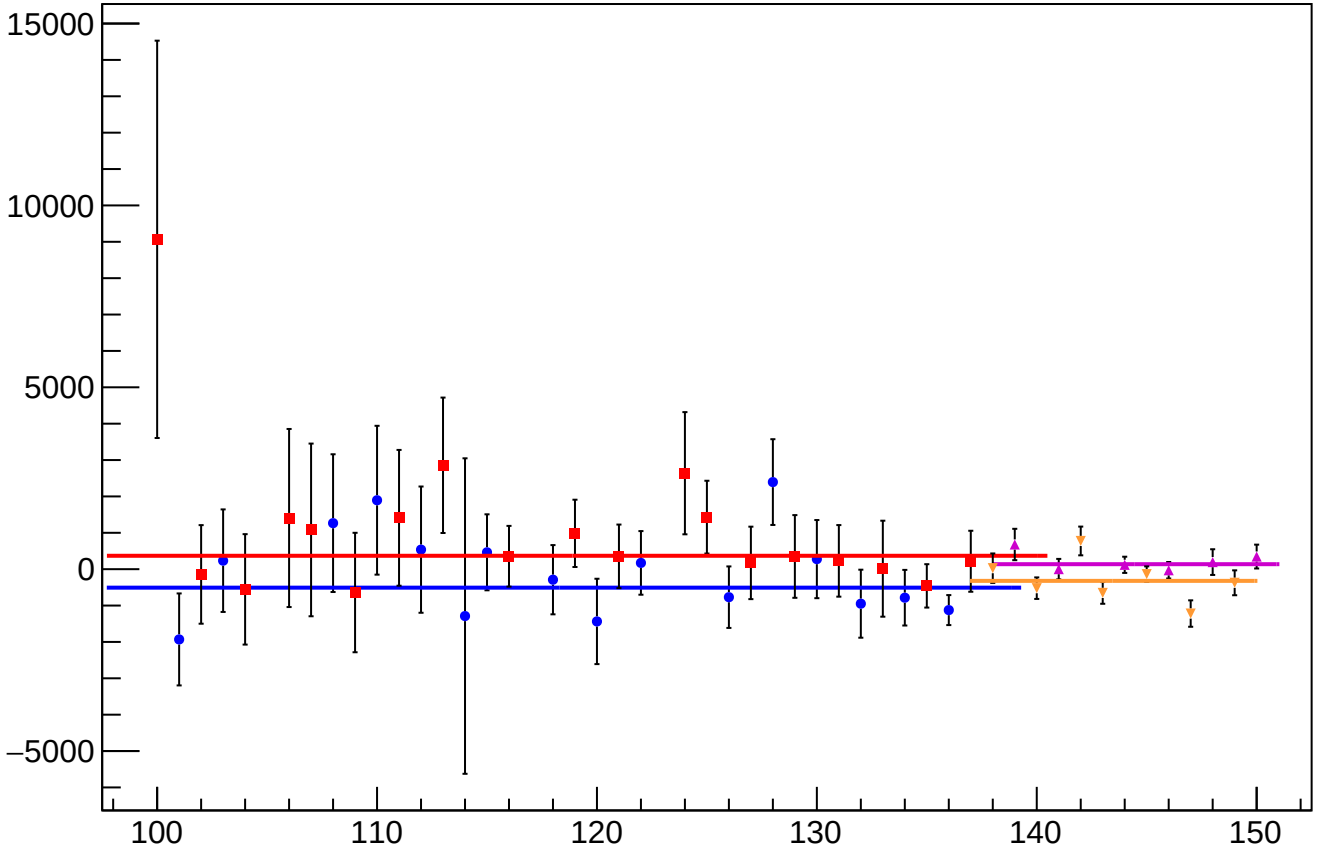
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 57.130+/-0.012 $\chi^2$/NDF:1870847.1/21

Out: 57.453+/-0.012 $\chi^2$/NDF:2277581.8/25

All: 57.291+/-0.008 $\chi^2$/NDF: 4148791.6/47

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -507.911+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -321.449+/-116.794 $\chi^2$/NDF:17.0/6

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 137.245+/-115.443 $\chi^2$/NDF:2.8/5

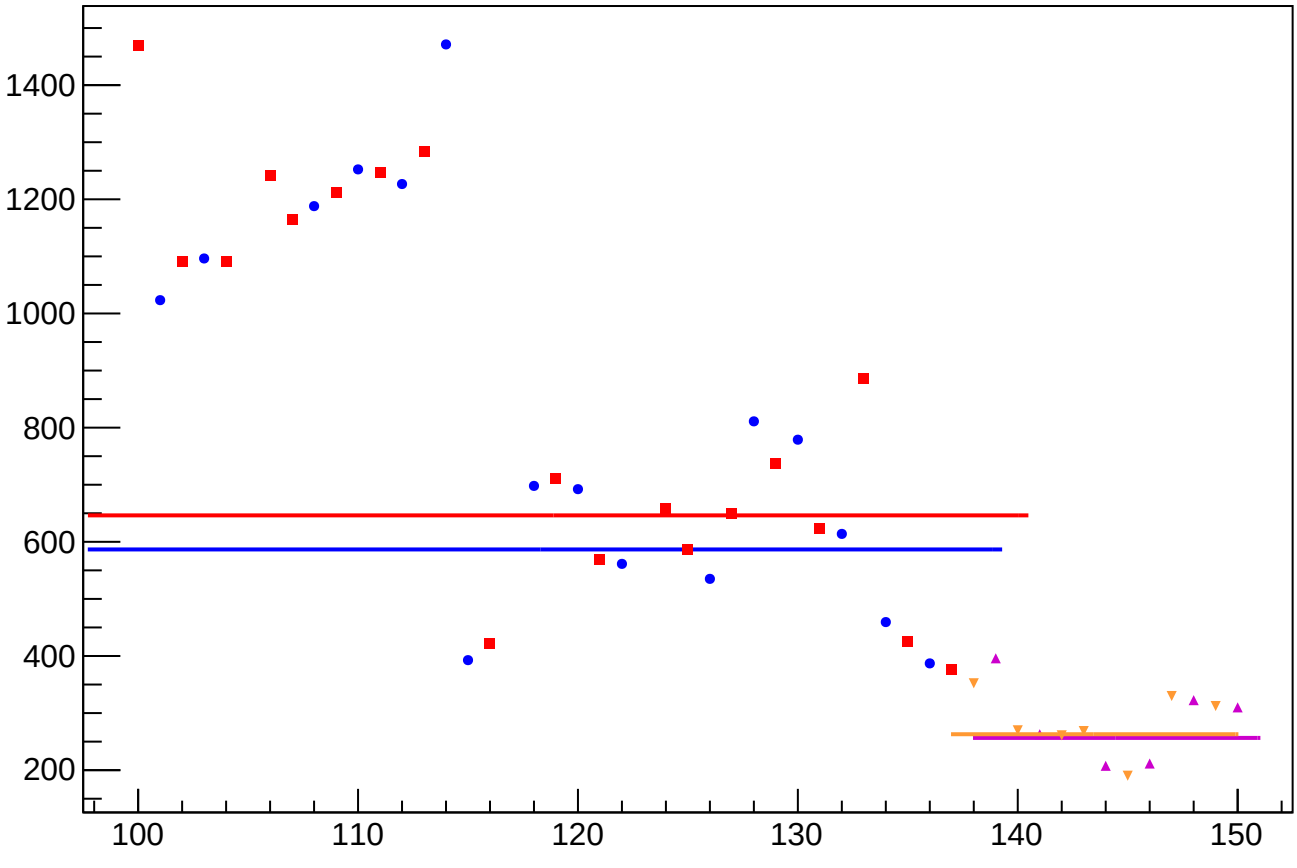
Left: -89.435+/-82.104 $\chi^2$/NDF: 27.6/12

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: 13.478+/-103.781 $\chi^2$/NDF:24.4/21

Out: -203.021+/-106.296 $\chi^2$/NDF:34.3/25

All: -92.180+/-74.257 $\chi^2$/NDF: 60.9/47




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 262.949+/-0.083 $\chi^2$/NDF:441522.7/6

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 256.511+/-0.082 $\chi^2$/NDF:508690.3/5

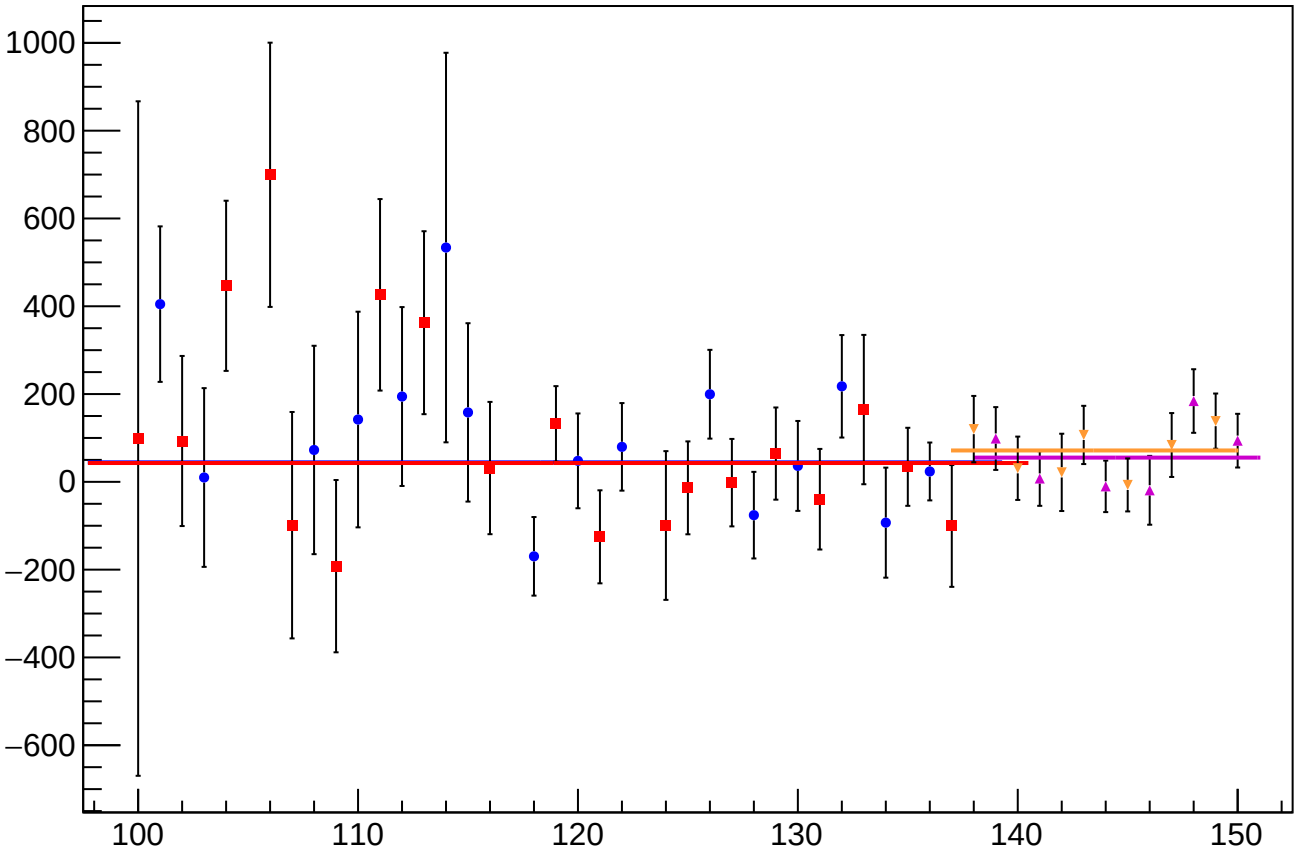
Left: 259.693+/-0.058 $\chi^2$/NDF: 953287.6/12

Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 319.843+/-0.073 $\chi^2$/NDF:5699574.6/21

Out: 328.771+/-0.075 $\chi^2$/NDF:6204600.6/25

All: 324.200+/-0.053 $\chi^2$/NDF: 11911398.5/47




Right In: 44.387+/-29.909 $\chi^2$/NDF: 19.6/15

Left Out: 71.507+/-26.357 $\chi^2$/NDF:4.2/6

Right Out: 42.901+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 55.227+/-27.076 $\chi^2$/NDF:6.7/5

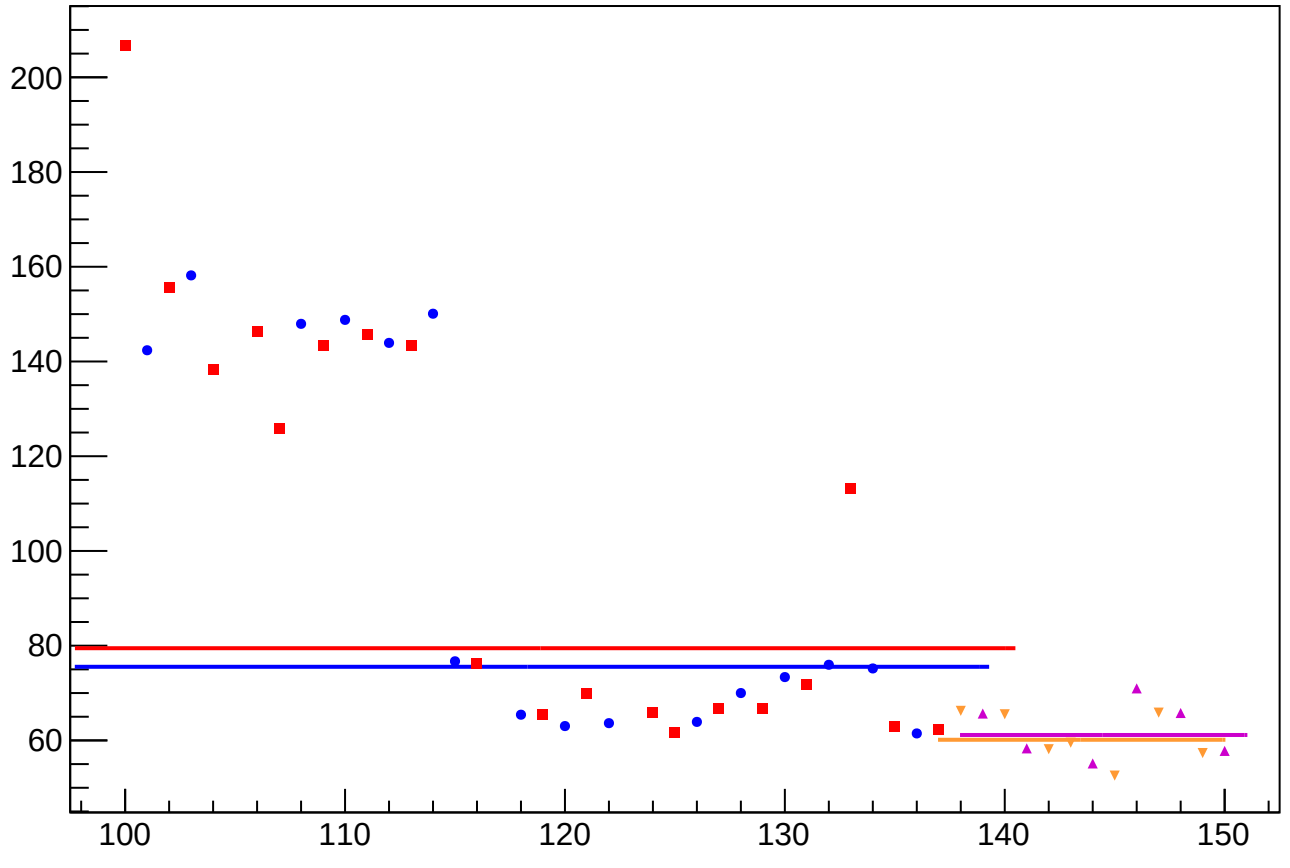
Left: 63.586+/-18.886 $\chi^2$/NDF: 11.0/12

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 50.344+/-20.073 $\chi^2$/NDF:26.3/21

Out: 59.615+/-20.147 $\chi^2$/NDF:28.0/25

All: 54.963+/-14.220 $\chi^2$/NDF: 54.4/47




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465550.9/15

Left Out: 60.136+/-0.019 $\chi^2$/NDF:73136.4/6

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683634.3/18

Left In: 61.147+/-0.019 $\chi^2$/NDF:78837.2/5

Left: 60.628+/-0.013 $\chi^2$/NDF: 153405.5/12

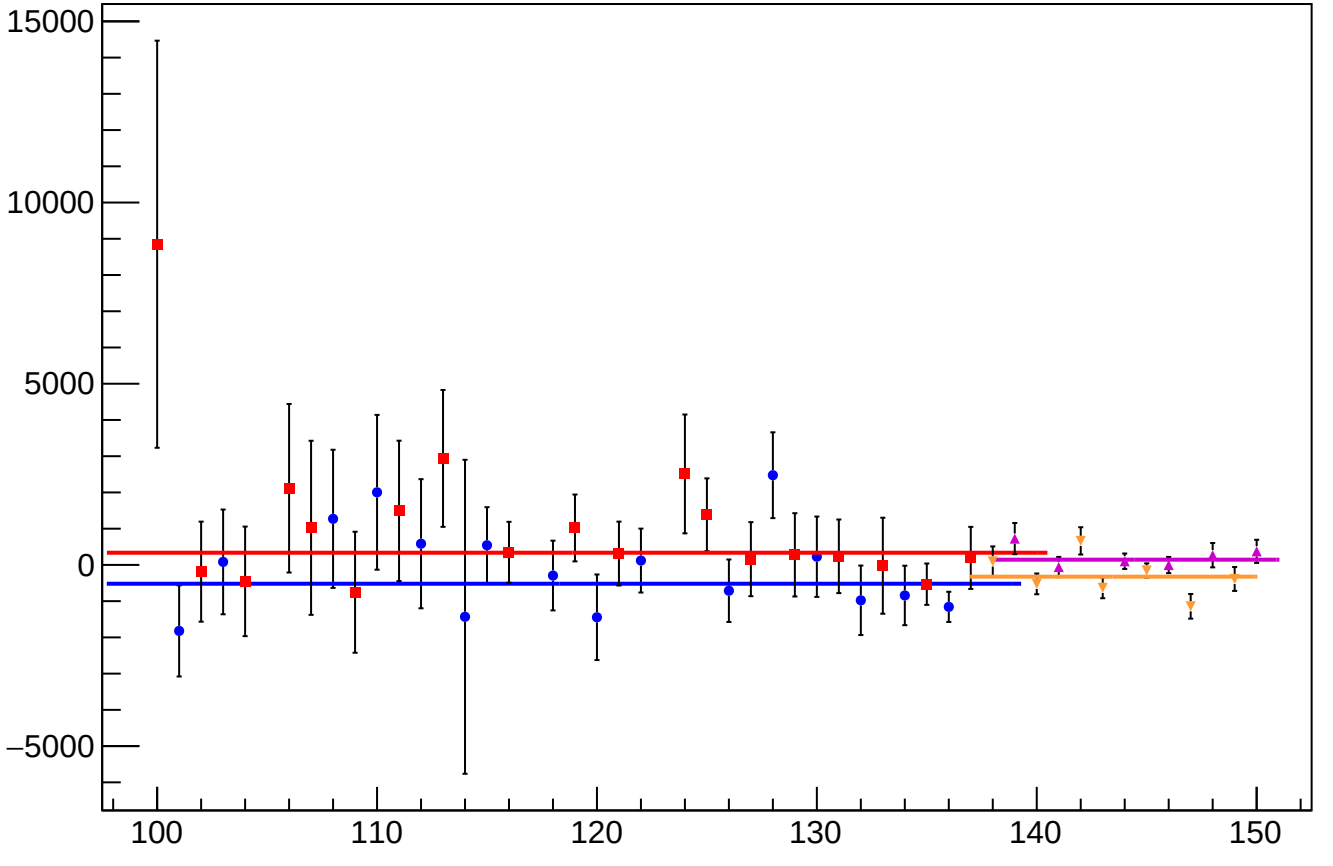
Right: 77.419+/-0.015 $\chi^2$/NDF: 3165620.3/34

In: 67.632+/-0.014 $\chi^2$/NDF:1799085.6/21

Out: 68.171+/-0.014 $\chi^2$/NDF:2203914.1/25

All: 67.901+/-0.010 $\chi^2$/NDF: 4003719.0/47

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -519.250+/-241.317 $\chi^2$/NDF: 15.8/15

Left Out: -324.391+/-111.043 $\chi^2$/NDF:16.1/6

Right Out: 336.731+/-256.618 $\chi^2$/NDF: 11.9/18

Left In: 144.366+/-112.666 $\chi^2$/NDF:3.5/5

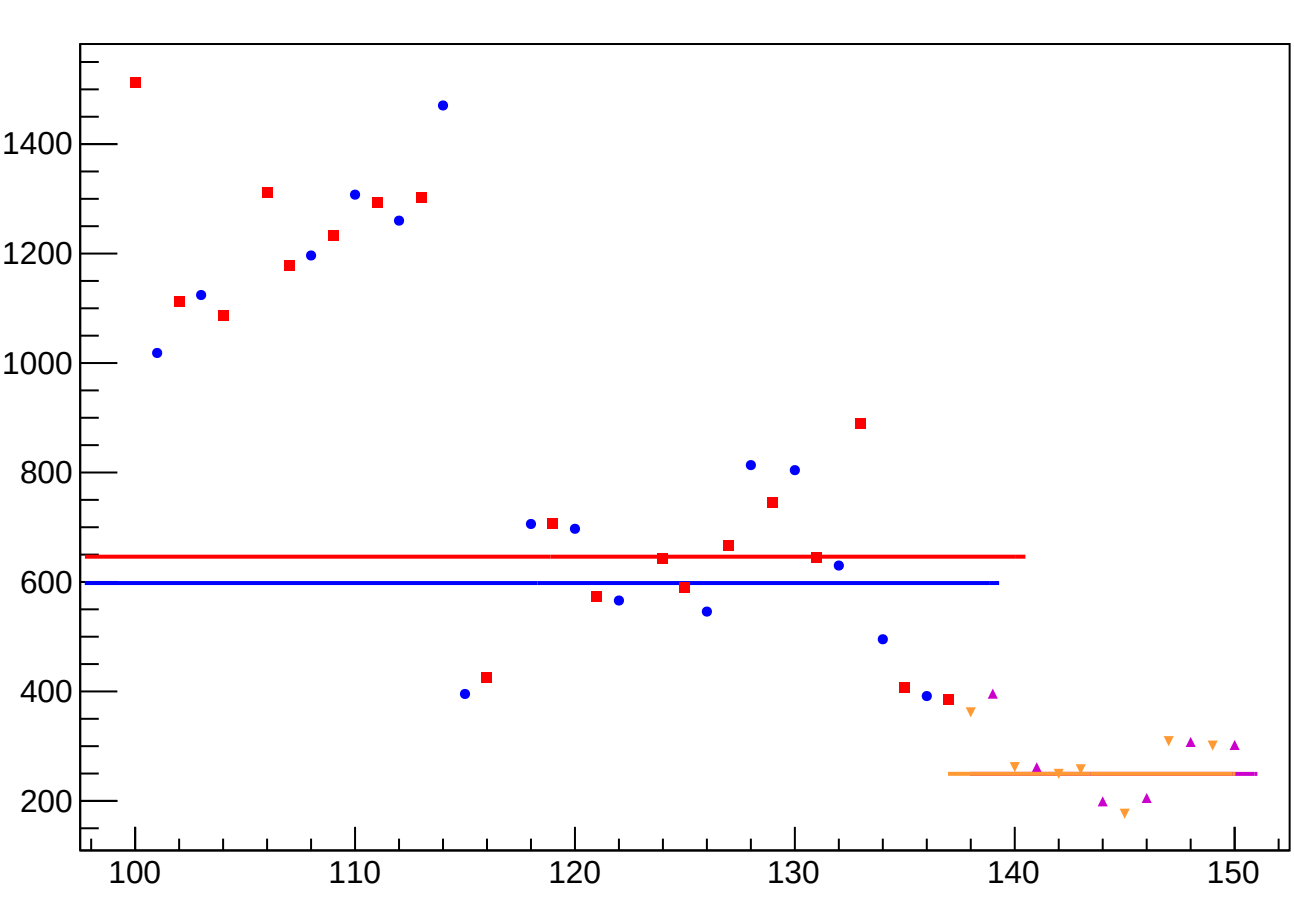
Left: -93.411+/-79.087 $\chi^2$/NDF: 28.4/12

Right: -117.538+/-175.797 $\chi^2$/NDF: 33.6/34

In: 25.602+/-102.087 $\chi^2$/NDF:25.5/21

Out: -220.123+/-101.911 $\chi^2$/NDF:33.6/25

All: -97.472+/-72.124 $\chi^2$/NDF: 62.0/47




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047825.1/15

Left Out: 249.521+/-0.079 $\chi^2$/NDF:538893.9/6

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205437.4/18

Left In: 249.369+/-0.080 $\chi^2$/NDF:537669.5/5

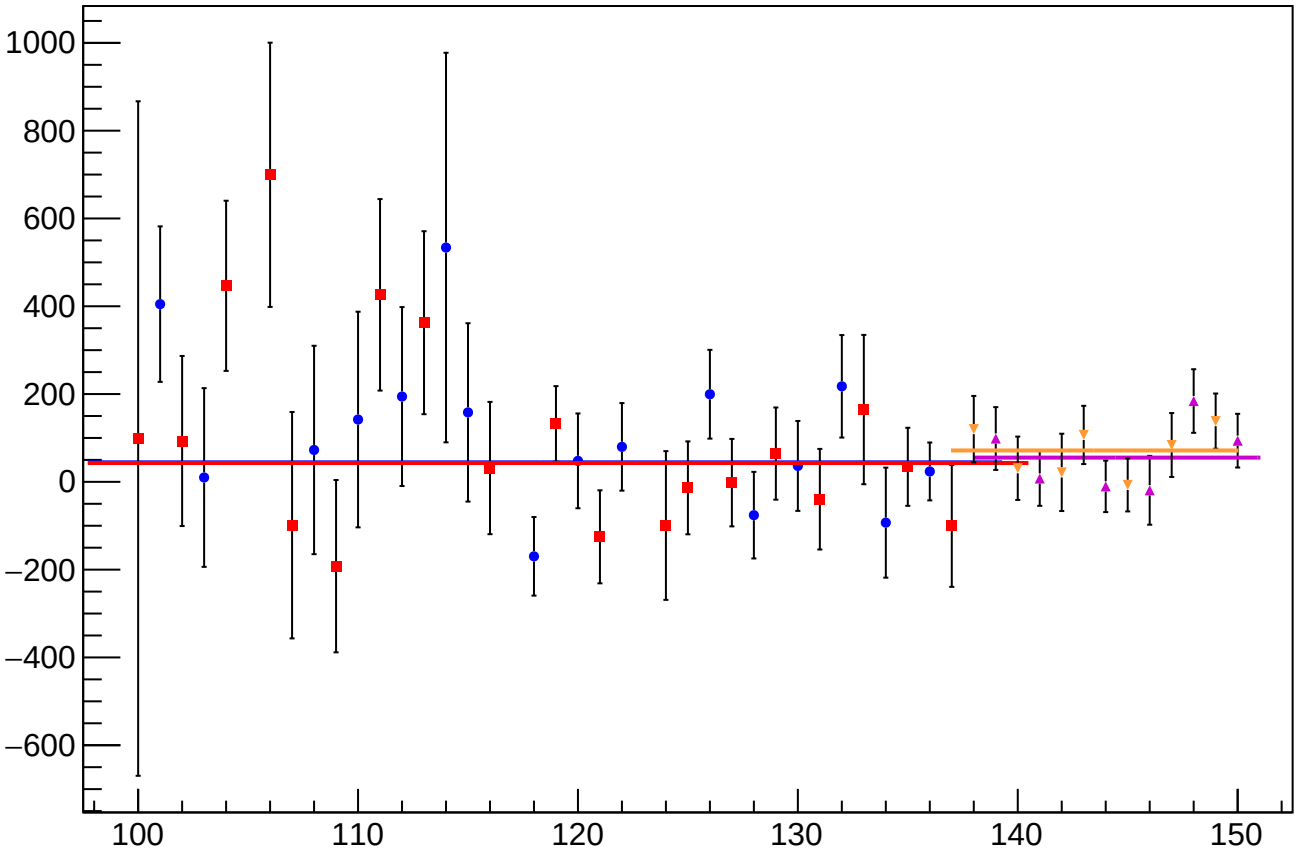
Left: 249.446+/-0.056 $\chi^2$/NDF: 1076565.3/12

Right: 620.639+/-0.124 $\chi^2$/NDF: 4290624.3/34

In: 311.770+/-0.072 $\chi^2$/NDF:6013640.8/21

Out: 312.081+/-0.072 $\chi^2$/NDF:6769402.3/25

All: 311.926+/-0.051 $\chi^2$/NDF: 12783052.4/47




Right In: 44.389+/-29.908 $\chi^2$/NDF: 19.6/15

Left Out: 71.506+/-26.357 $\chi^2$/NDF:4.2/6

Right Out: 42.900+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 55.226+/-27.076 $\chi^2$/NDF:6.7/5

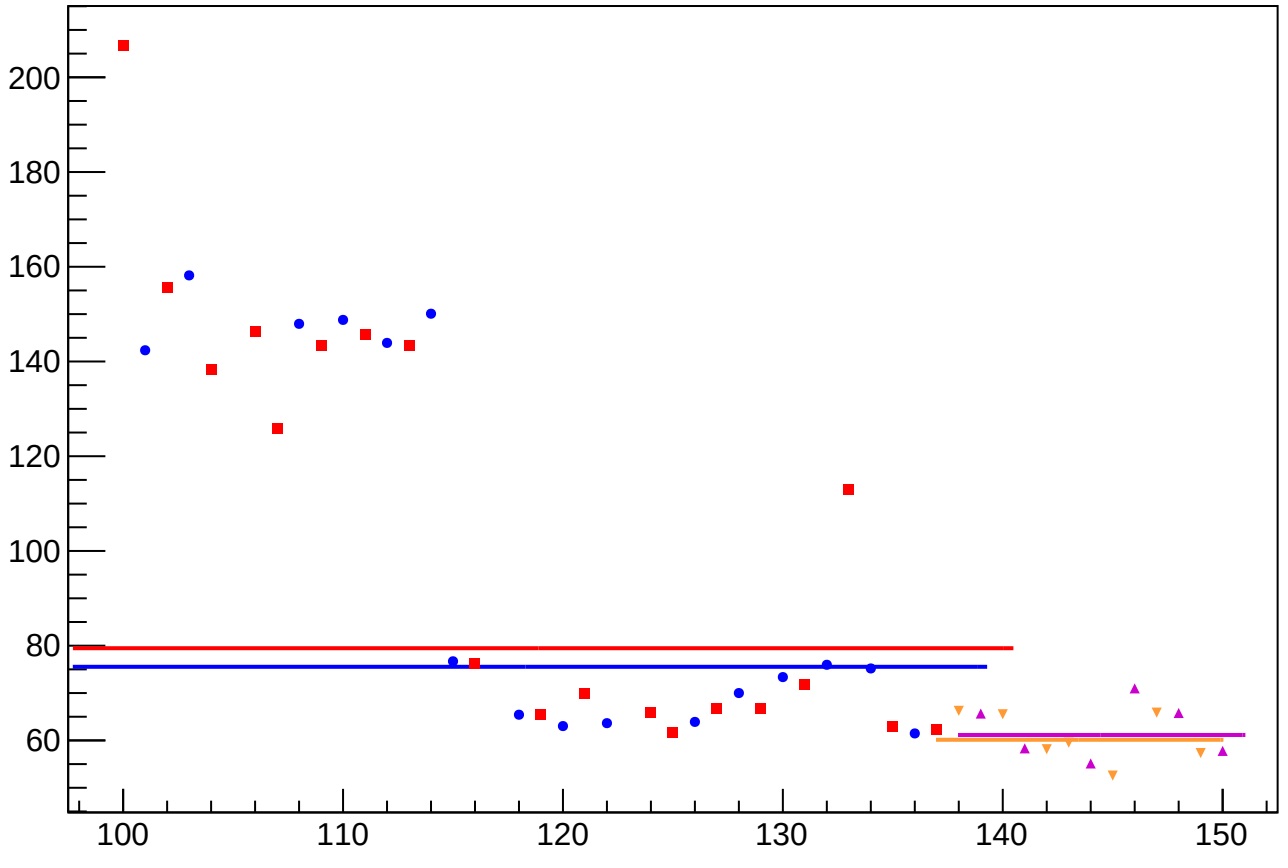
Left: 63.585+/-18.886 $\chi^2$/NDF: 11.0/12

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 50.345+/-20.073 $\chi^2$/NDF:26.3/21

Out: 59.615+/-20.147 $\chi^2$/NDF:28.0/25

All: 54.963+/-14.220 $\chi^2$/NDF: 54.4/47




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465535.8/15

Left Out: 60.136+/-0.019 $\chi^2$/NDF:73131.7/6

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683627.3/18

Left In: 61.147+/-0.019 $\chi^2$/NDF:78836.4/5

Left: 60.628+/-0.013 $\chi^2$/NDF: 153399.9/12

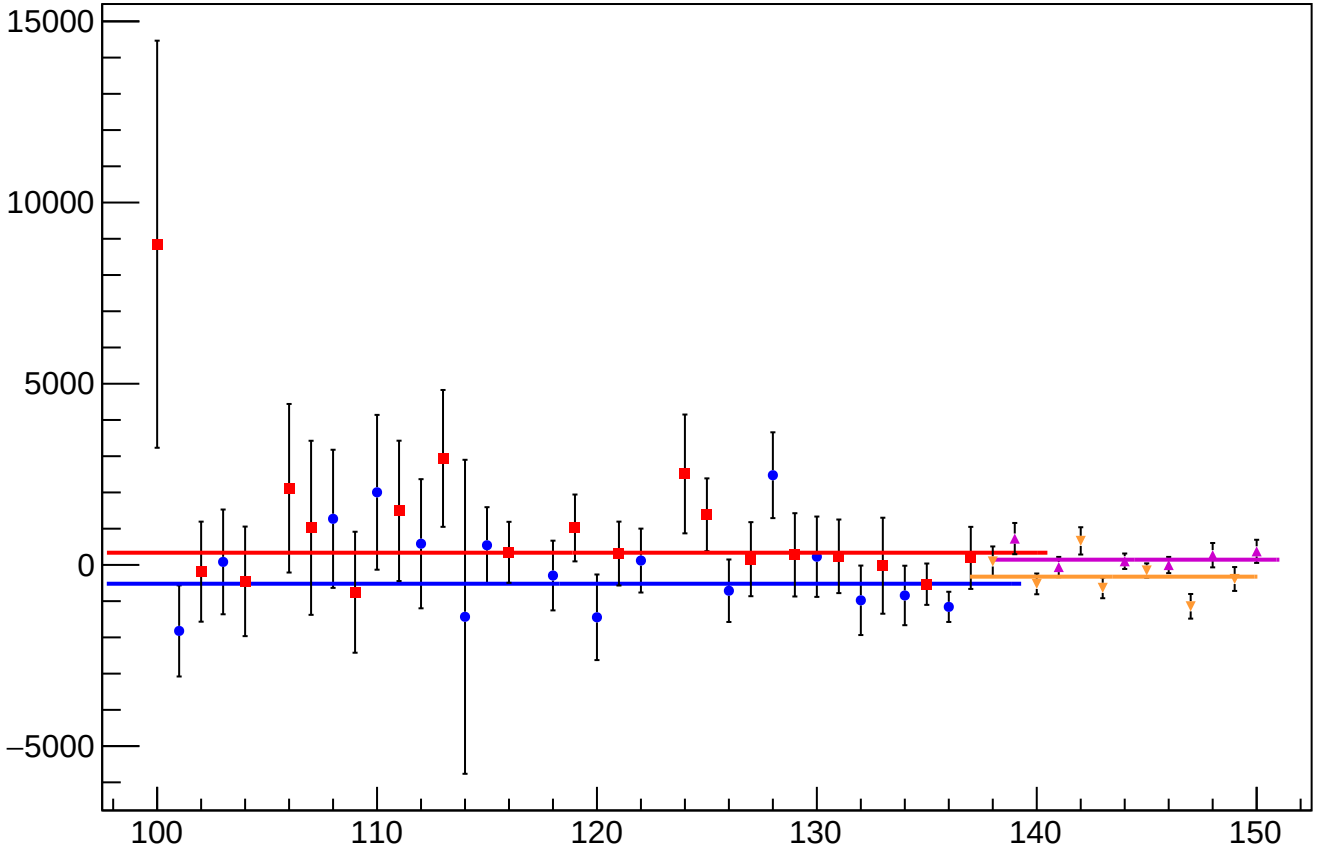
Right: 77.419+/-0.015 $\chi^2$/NDF: 3165598.5/34

In: 67.632+/-0.014 $\chi^2$/NDF:1799051.2/21

Out: 68.171+/-0.014 $\chi^2$/NDF:2203878.9/25

All: 67.901+/-0.010 $\chi^2$/NDF: 4003649.6/47

asym_sam_1526_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -519.247+/-241.316 $\chi^2$/NDF: 15.8/15

Left Out: -324.392+/-111.043 $\chi^2$/NDF:16.1/6

Right Out: 336.731+/-256.617 $\chi^2$/NDF: 11.9/18

Left In: 144.366+/-112.665 $\chi^2$/NDF:3.5/5

Left: -93.412+/-79.087 $\chi^2$/NDF: 28.4/12

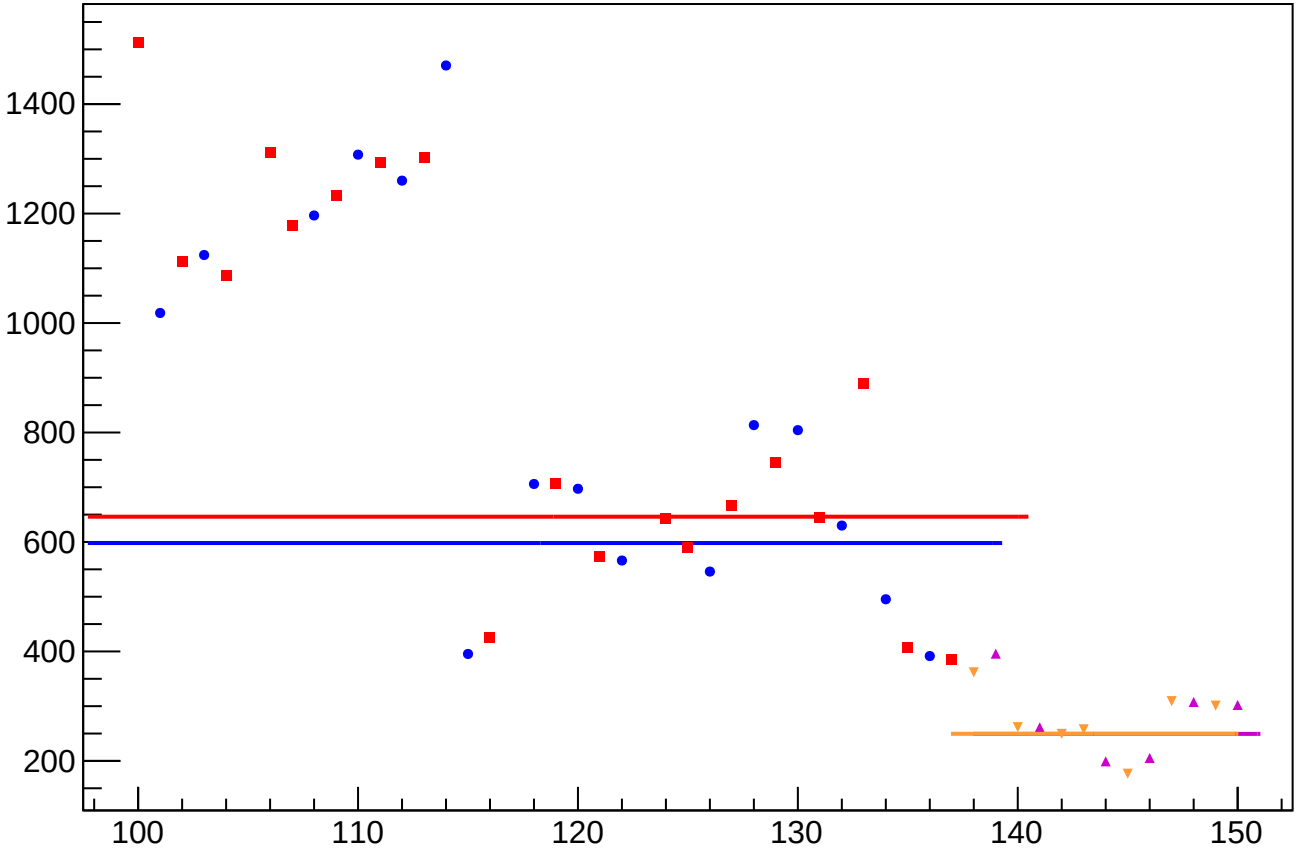
Right: -117.537+/-175.797 $\chi^2$/NDF: 33.6/34

In: 25.602+/-102.087 $\chi^2$/NDF:25.5/21

Out: -220.124+/-101.911 $\chi^2$/NDF:33.6/25

All: -97.473+/-72.124 $\chi^2$/NDF: 62.0/47

asym_sam_1526_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047806.5/15

Left Out: 249.520+/-0.079 $\chi^2$/NDF:538894.9/6

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205421.4/18

Left In: 249.369+/-0.080 $\chi^2$/NDF:537664.2/5

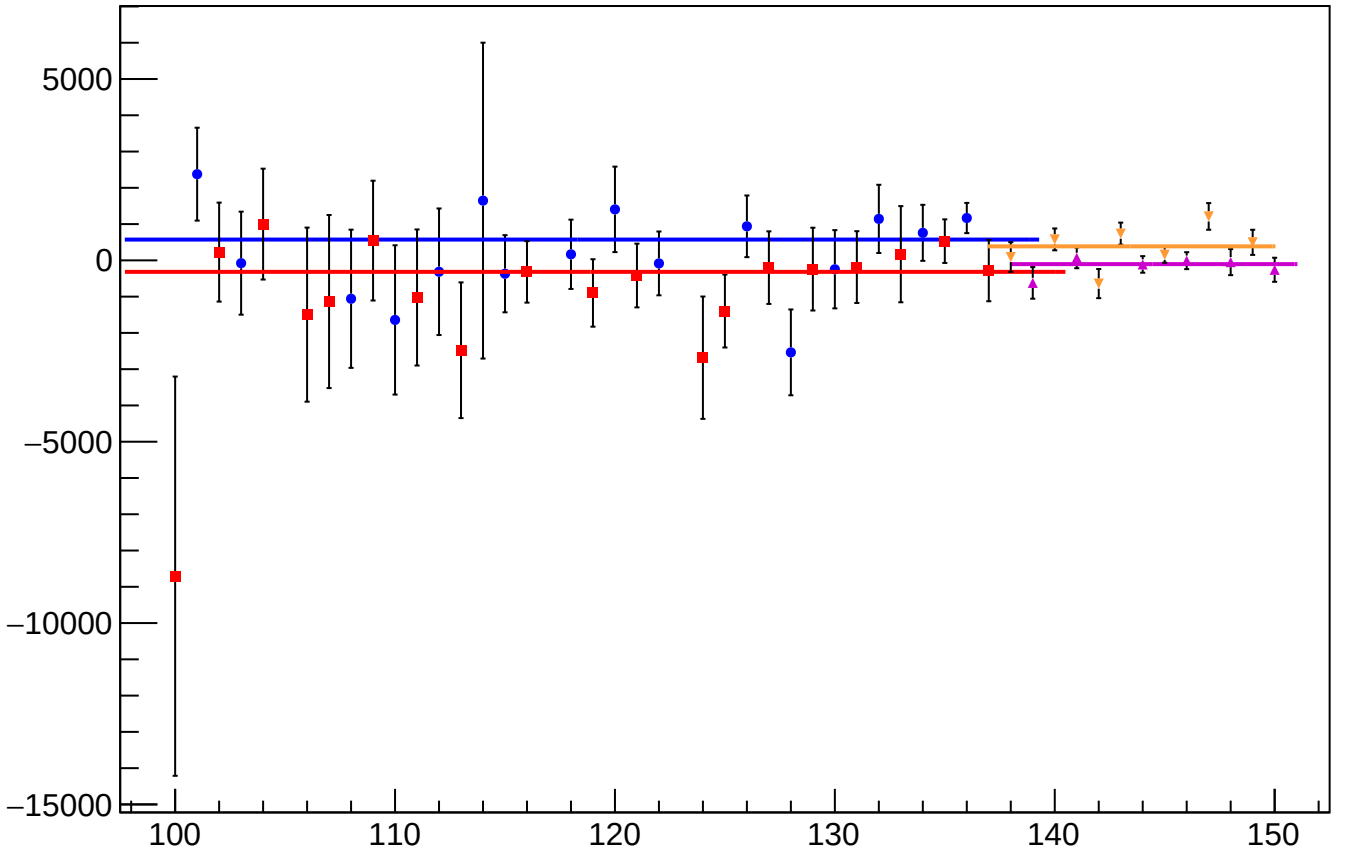
Left: 249.445+/-0.056 $\chi^2$/NDF: 1076560.9/12

Right: 620.638+/-0.124 $\chi^2$/NDF: 4290589.9/34

In: 311.769+/-0.072 $\chi^2$/NDF:6013623.5/21

Out: 312.080+/-0.072 $\chi^2$/NDF:6769401.5/25

All: 311.925+/-0.051 $\chi^2$/NDF: 12783034.4/47




Right In: 573.374+/-238.921 $\chi^2$/NDF: 16.6/15

Left Out: 386.007+/-119.064 $\chi^2$/NDF:15.0/6

Right Out: -316.830+/-258.239 $\chi^2$/NDF: 11.0/18

Left In: -103.662+/-118.025 $\chi^2$/NDF:2.2/5

Left: 139.026+/-83.821 $\chi^2$/NDF: 25.7/12

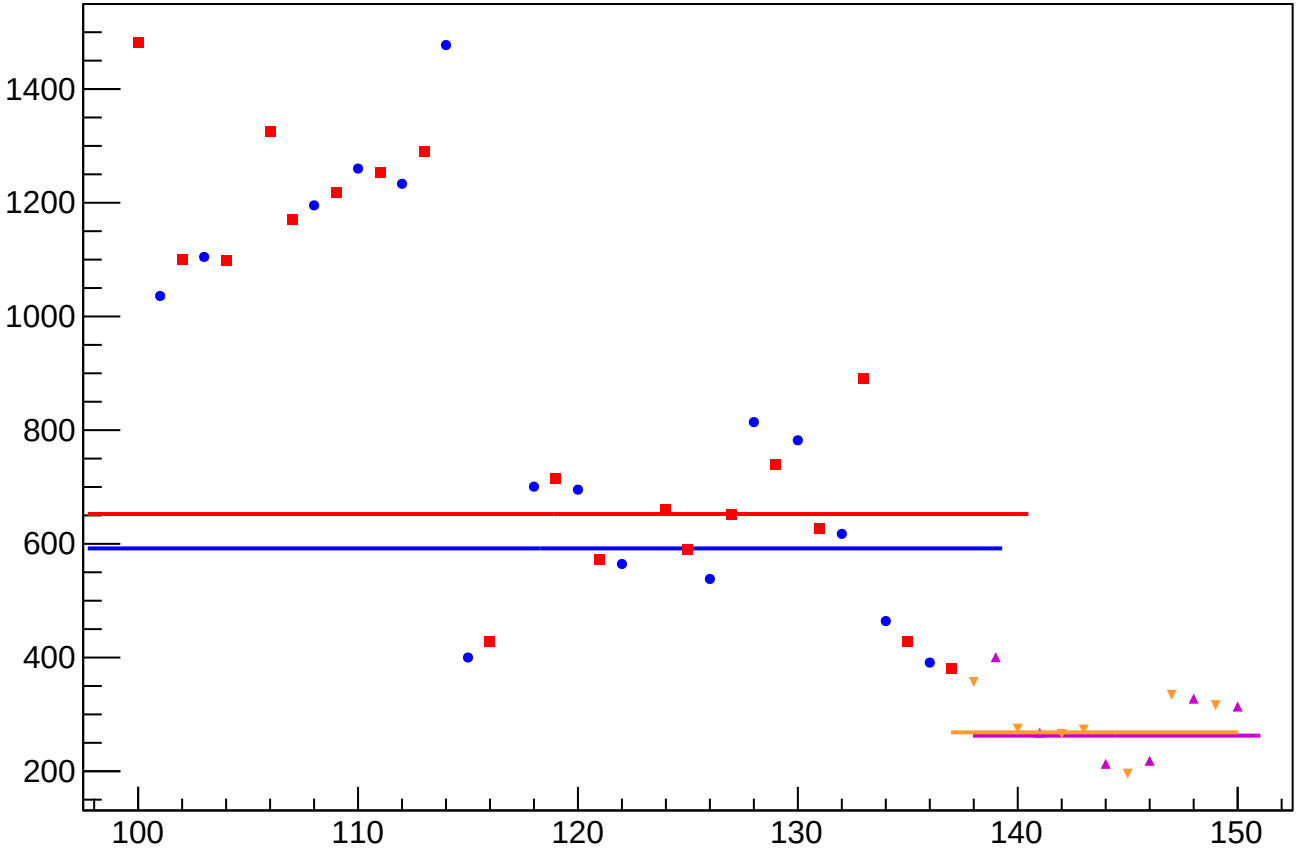
Right: 162.809+/-175.375 $\chi^2$/NDF: 34.0/34

In: 29.144+/-105.818 $\chi^2$/NDF:25.2/21

Out: 262.792+/-108.125 $\chi^2$/NDF:32.1/25

All: 143.448+/-75.627 $\chi^2$/NDF: 59.7/47

# asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 591.974+/-0.169 $\chi^2$/NDF: 2035700.6/15

Left Out: 268.390+/-0.084 $\chi^2$/NDF:417359.4/6

Right Out: 652.459+/-0.183 $\chi^2$/NDF: 2089983.3/18

Left In: 262.669+/-0.083 $\chi^2$/NDF:479857.9/5

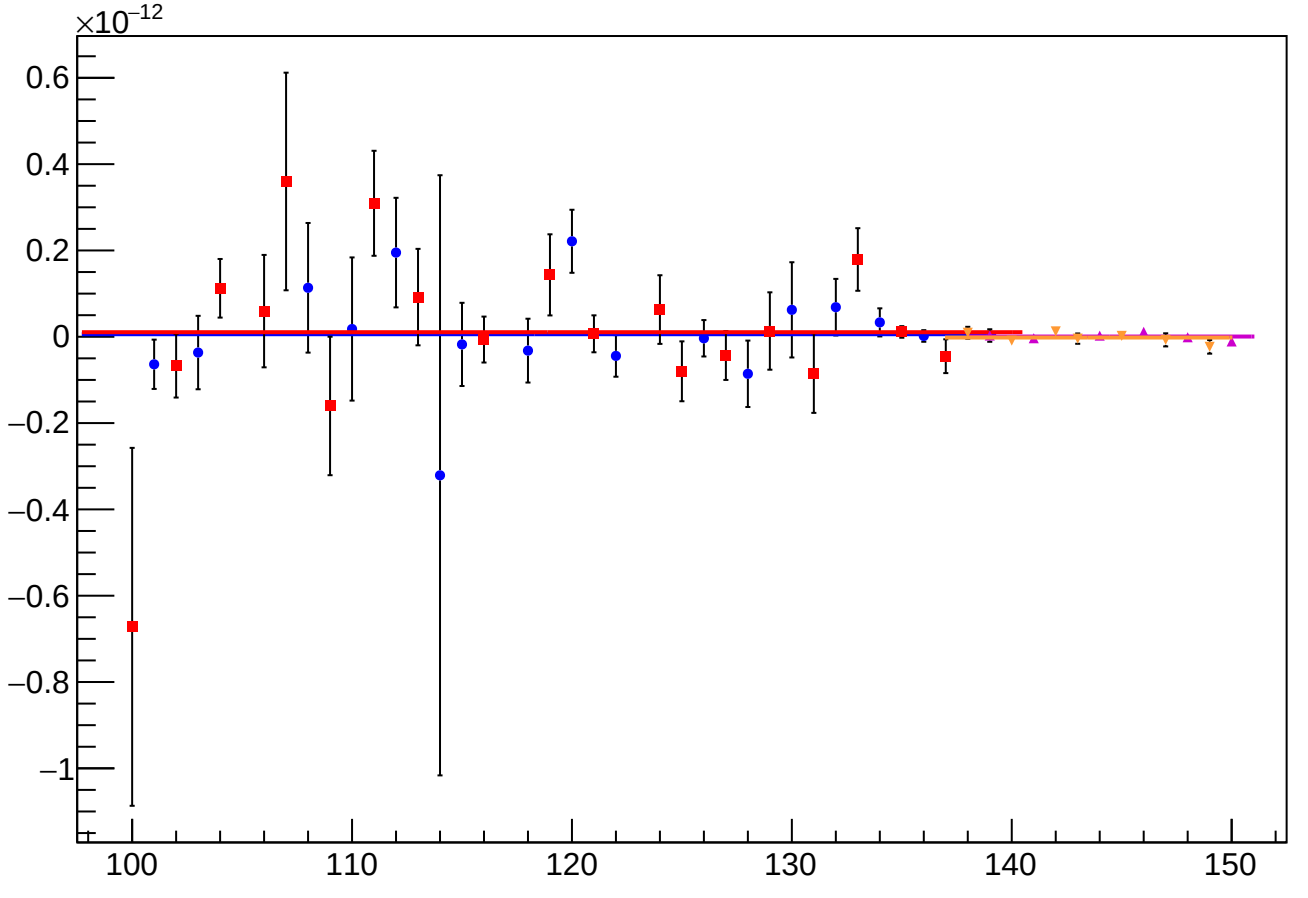
Left: 265.504+/-0.059 $\chi^2$/NDF: 899546.4/12

Right: 619.870+/-0.124 $\chi^2$/NDF: 4184800.0/34

In: 327.265+/-0.075 $\chi^2$/NDF:5569693.0/21

Out: 335.722+/-0.076 $\chi^2$/NDF:6155692.2/25

All: 331.402+/-0.053 $\chi^2$/NDF: 11731634.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 29.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/5

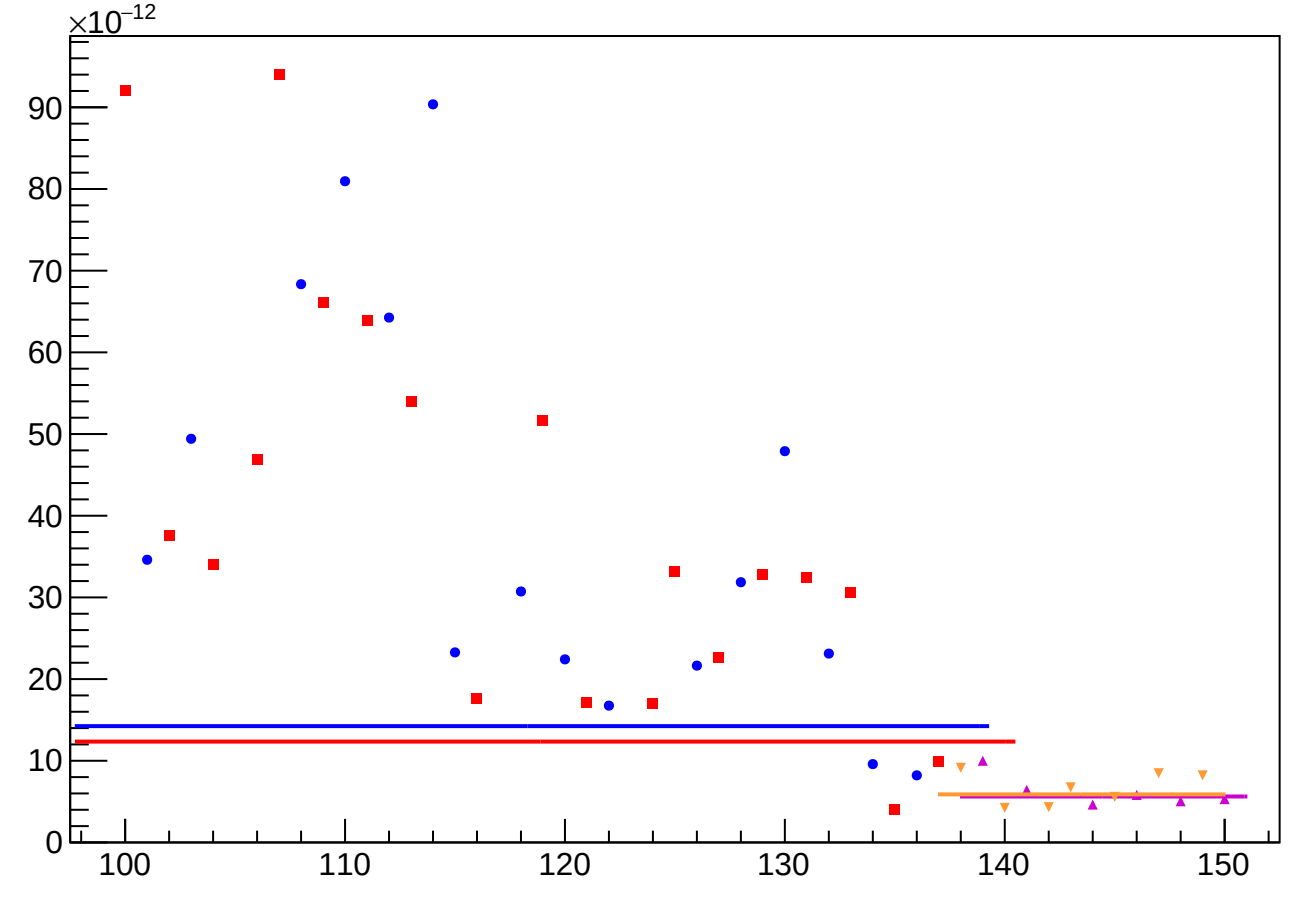
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.3/21

Out: -0.000+/-0.000 $\chi^2$/NDF:36.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 57.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2493527.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:352545.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3472954.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:240062.4/5

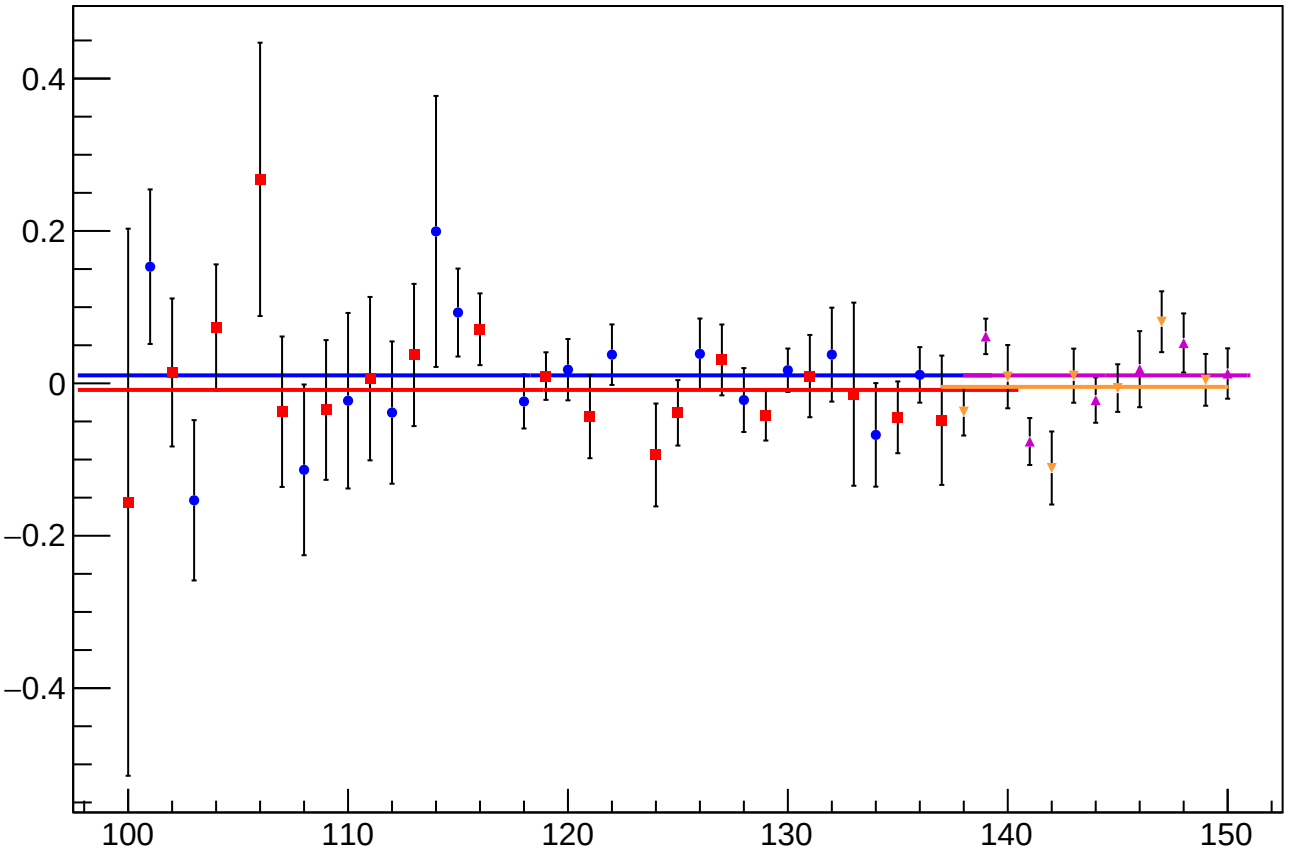
Left: 0.000+/-0.000 $\chi^2$/NDF: 596629.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5998748.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3905059.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4477603.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8382745.7/47




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.005+/-0.014 $\chi^2$/NDF:11.0/6

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:15.2/5

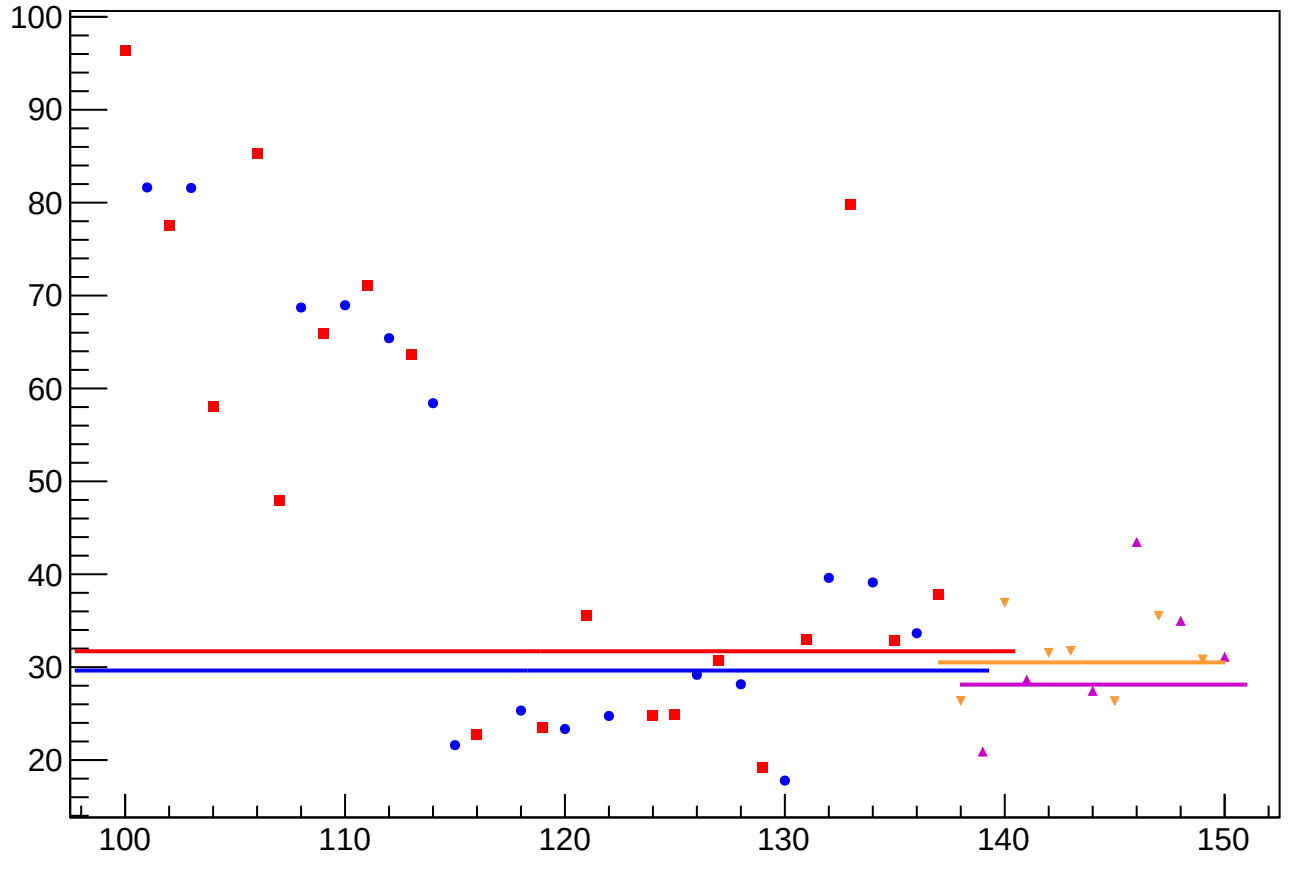
Left: 0.003+/-0.009 $\chi^2$/NDF: 26.8/12

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.010+/-0.009 $\chi^2$/NDF:28.3/21

Out: -0.007+/-0.010 $\chi^2$/NDF:23.4/25

All: 0.002+/-0.007 $\chi^2$/NDF: 53.5/47




Right In: 29.635+/-0.009 $\chi^2$/NDF: 2448468.0/15

Left Out: 30.512+/-0.010 $\chi^2$/NDF:153341.6/6

Right Out: 31.712+/-0.009 $\chi^2$/NDF: 2651470.3/18

Left In: 28.121+/-0.009 $\chi^2$/NDF:461064.0/5

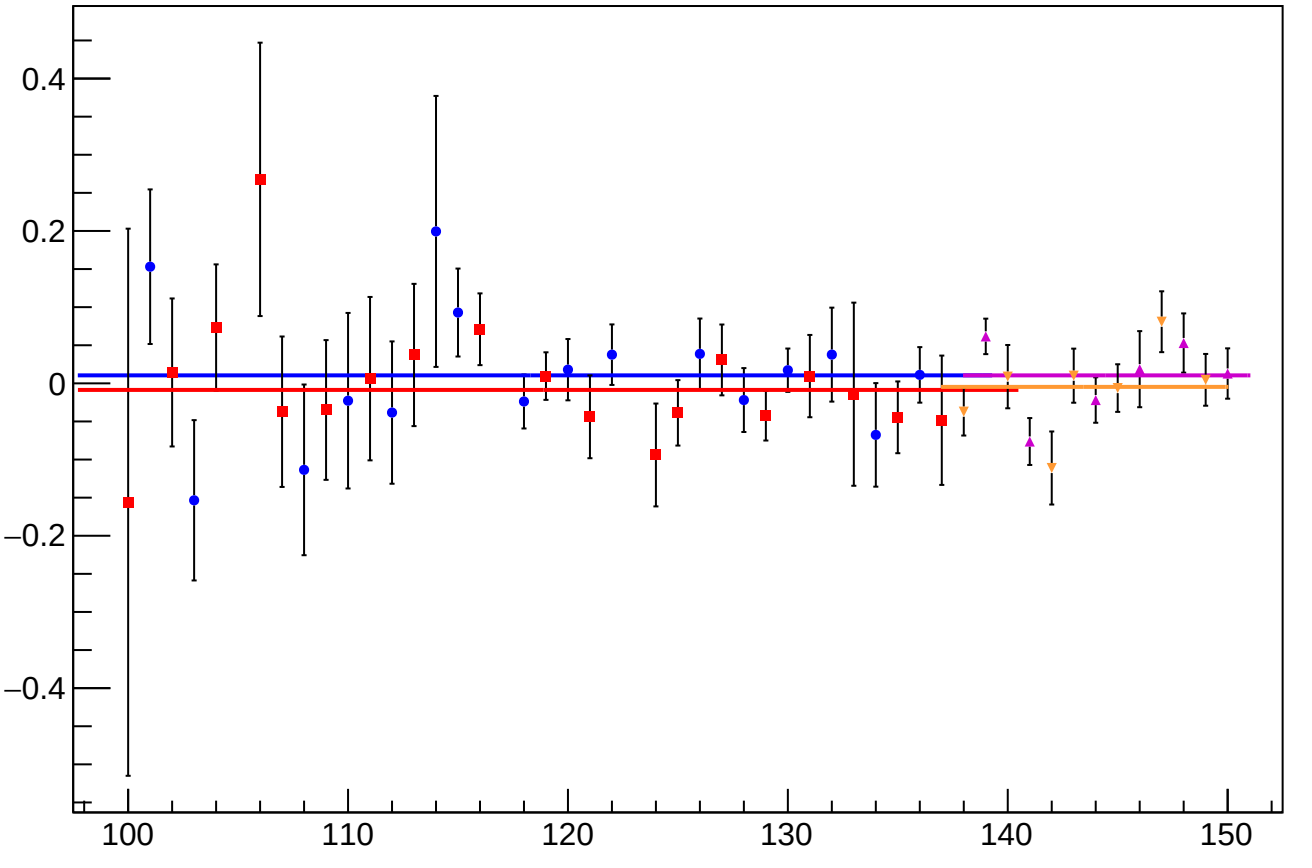
Left: 29.247+/-0.007 $\chi^2$/NDF: 646745.2/12

Right: 30.618+/-0.006 $\chi^2$/NDF: 5125863.2/34

In: 28.898+/-0.006 $\chi^2$/NDF:2923664.3/21

Out: 31.132+/-0.007 $\chi^2$/NDF:2812763.1/25

All: 29.953+/-0.005 $\chi^2$/NDF: 5794585.3/47




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.005+/-0.014 $\chi^2$/NDF:11.0/6

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:15.2/5

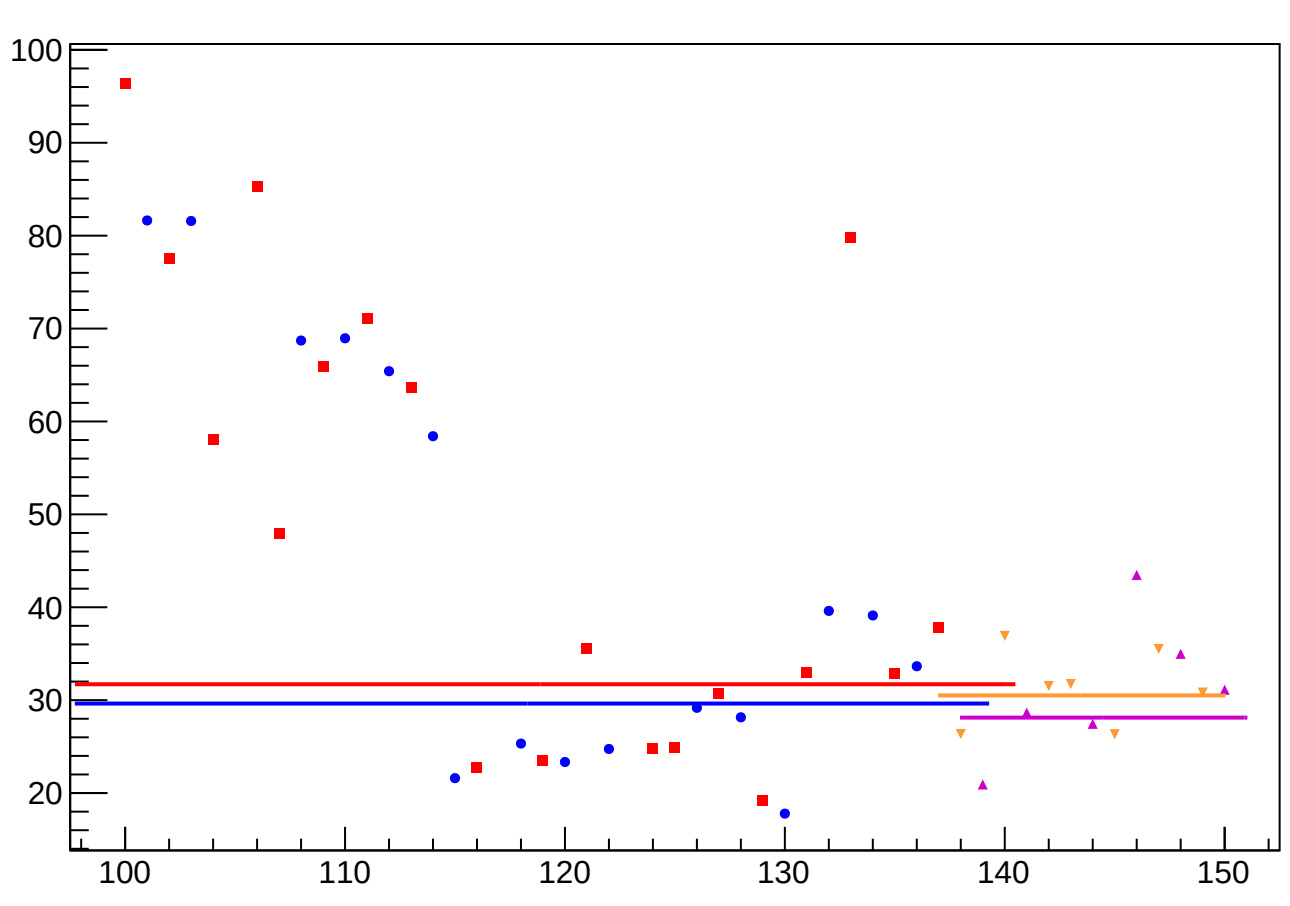
Left: 0.003+/-0.009 $\chi^2$/NDF: 26.8/12

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.010+/-0.009 $\chi^2$/NDF:28.3/21

Out: -0.007+/-0.010 $\chi^2$/NDF:23.4/25

All: 0.002+/-0.007 $\chi^2$/NDF: 53.5/47




Right In: 29.635+/-0.009 $\chi^2$/NDF: 2448468.0/15

Left Out: 30.512+/-0.010 $\chi^2$/NDF:153341.6/6

Right Out: 31.712+/-0.009 $\chi^2$/NDF: 2651470.3/18

Left In: 28.121+/-0.009 $\chi^2$/NDF:461064.0/5

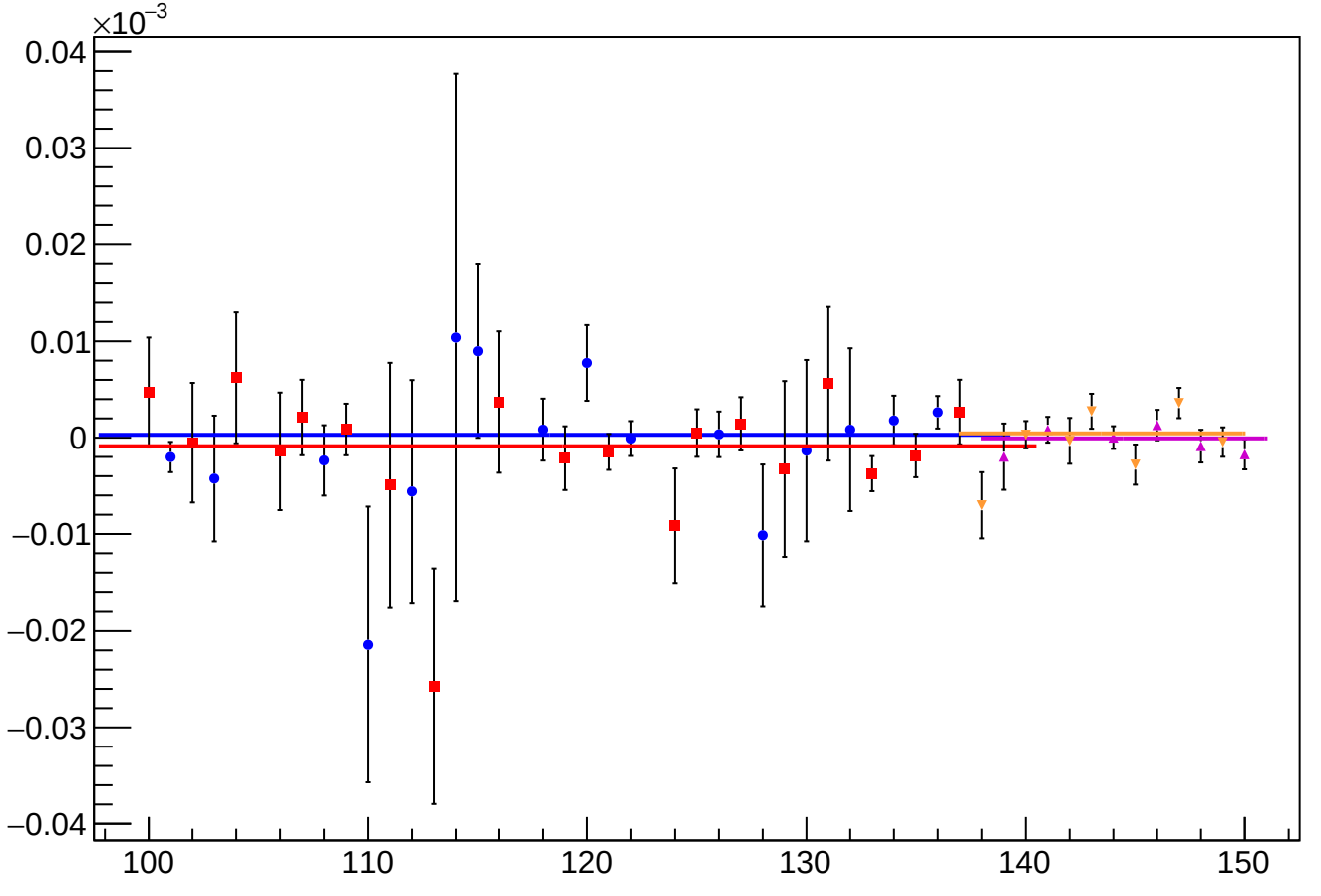
Left: 29.247+/-0.007 $\chi^2$/NDF: 646745.2/12

Right: 30.618+/-0.006 $\chi^2$/NDF: 5125863.2/34

In: 28.898+/-0.006 $\chi^2$/NDF:2923664.3/21

Out: 31.132+/-0.007 $\chi^2$/NDF:2812763.1/25

All: 29.953+/-0.005 $\chi^2$/NDF: 5794585.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.2/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.9/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 16.4/12

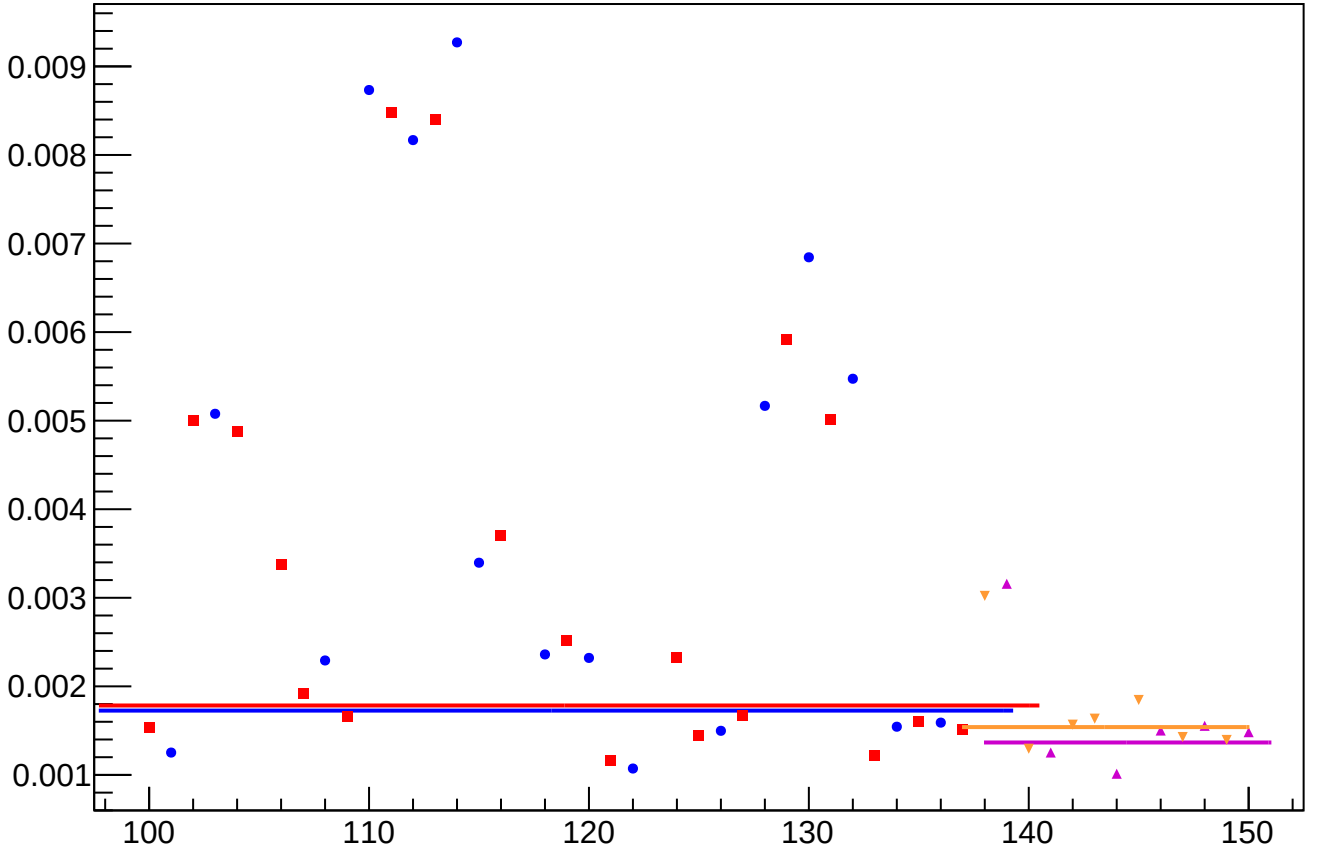
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:30.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 48.1/47

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3932244.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:508650.5/6

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3718778.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:787671.3/5

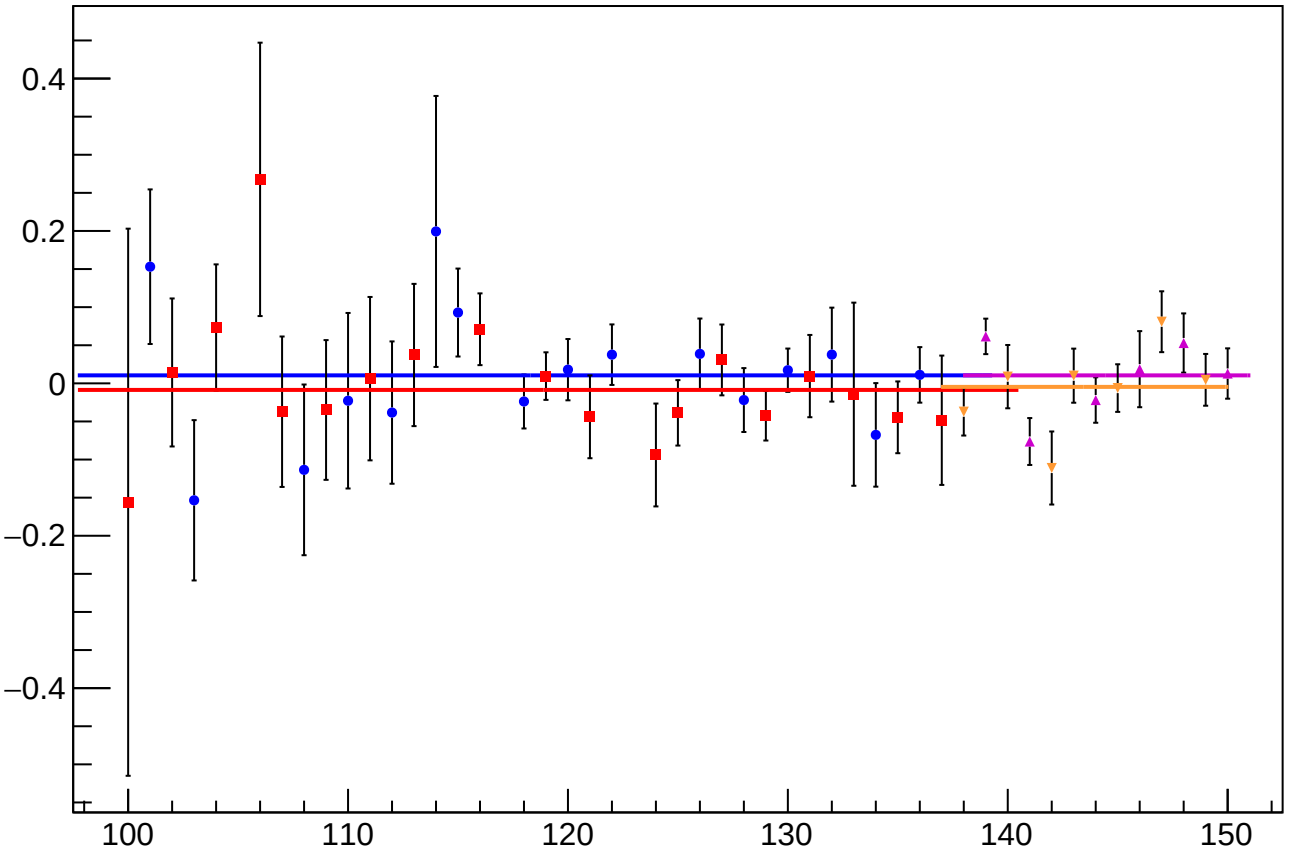
Left: 0.001+/-0.000 $\chi^2$/NDF: 1366129.5/12

Right: 0.002+/-0.000 $\chi^2$/NDF: 7656643.6/34

In: 0.002+/-0.000 $\chi^2$/NDF:4985295.1/21

Out: 0.002+/-0.000 $\chi^2$/NDF:4338378.3/25

All: 0.002+/-0.000 $\chi^2$/NDF: 9396142.5/47




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.005+/-0.014 $\chi^2$/NDF:11.0/6

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:15.2/5

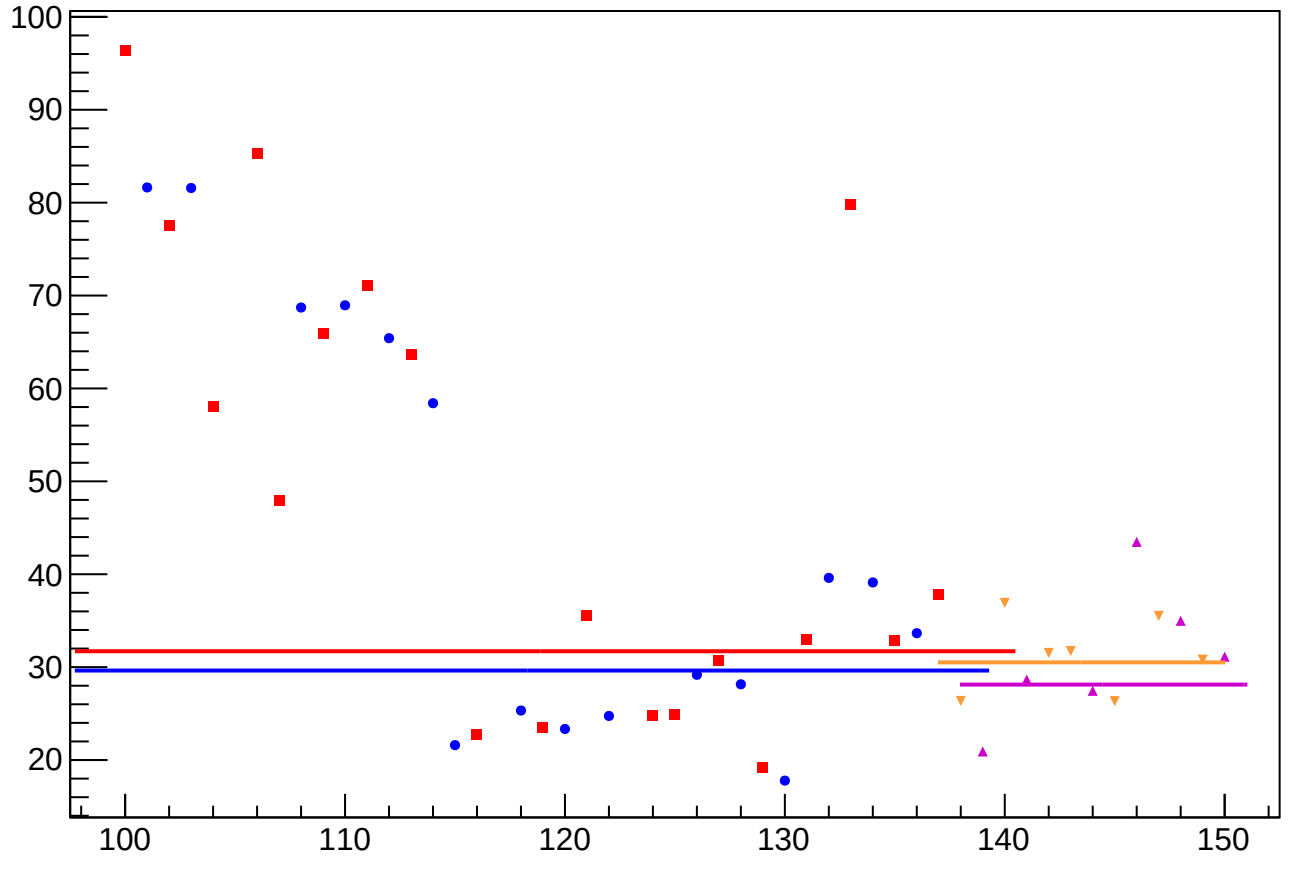
Left: 0.003+/-0.009 $\chi^2$/NDF: 26.8/12

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.010+/-0.009 $\chi^2$/NDF:28.3/21

Out: -0.007+/-0.010 $\chi^2$/NDF:23.4/25

All: 0.002+/-0.007 $\chi^2$/NDF: 53.5/47




Right In: 29.633+/-0.009 $\chi^2$/NDF: 2448670.6/15

Left Out: 30.512+/-0.010 $\chi^2$/NDF:153335.9/6

Right Out: 31.711+/-0.009 $\chi^2$/NDF: 2651638.6/18

Left In: 28.121+/-0.009 $\chi^2$/NDF:461057.1/5

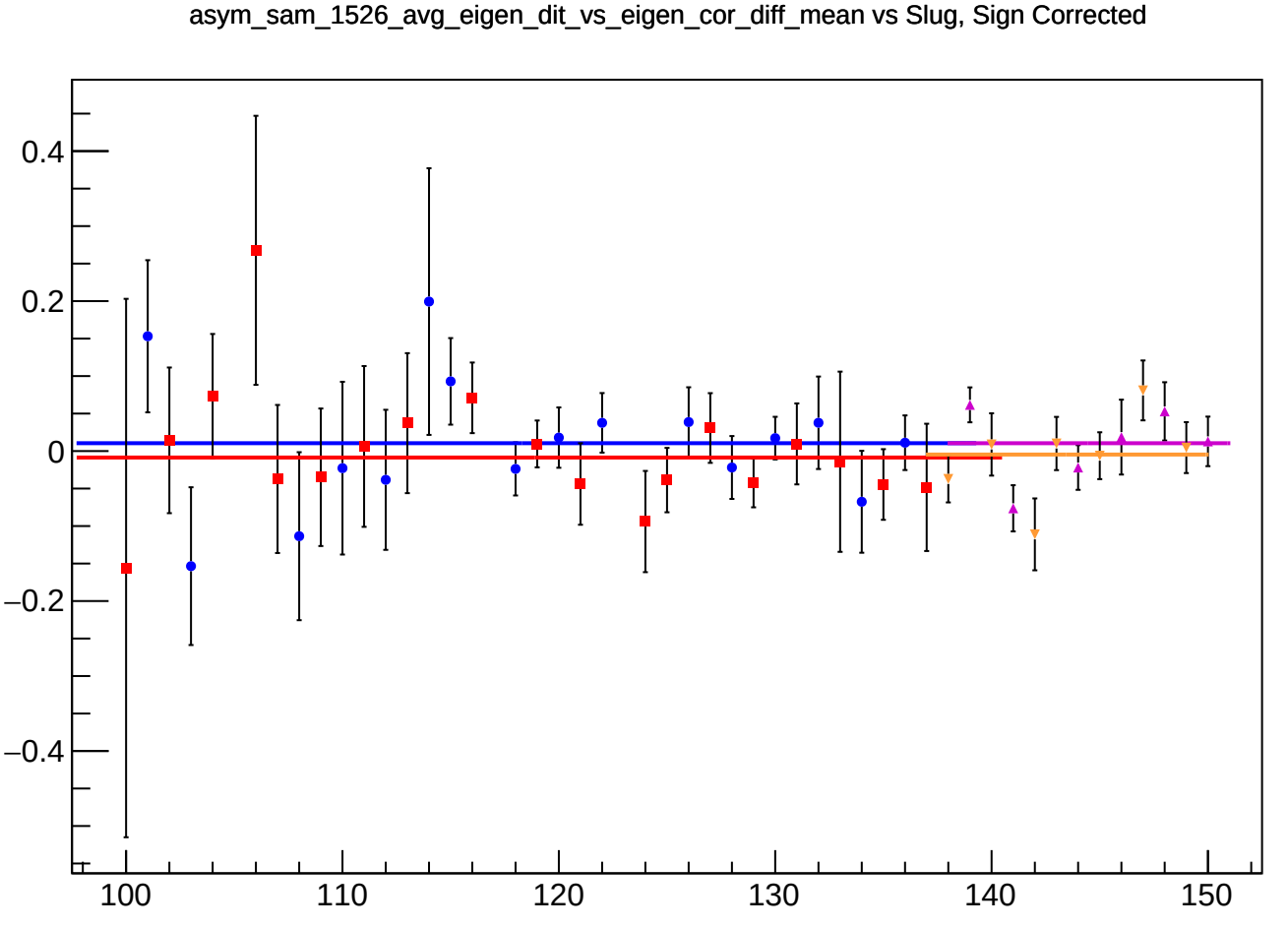
Left: 29.248+/-0.007 $\chi^2$/NDF: 646731.7/12

Right: 30.617+/-0.006 $\chi^2$/NDF: 5126235.3/34

In: 28.898+/-0.006 $\chi^2$/NDF:2923828.2/21

Out: 31.131+/-0.007 $\chi^2$/NDF:2812902.7/25

All: 29.953+/-0.005 $\chi^2$/NDF: 5794888.7/47




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.005+/-0.014 $\chi^2$/NDF:11.0/6

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:15.2/5

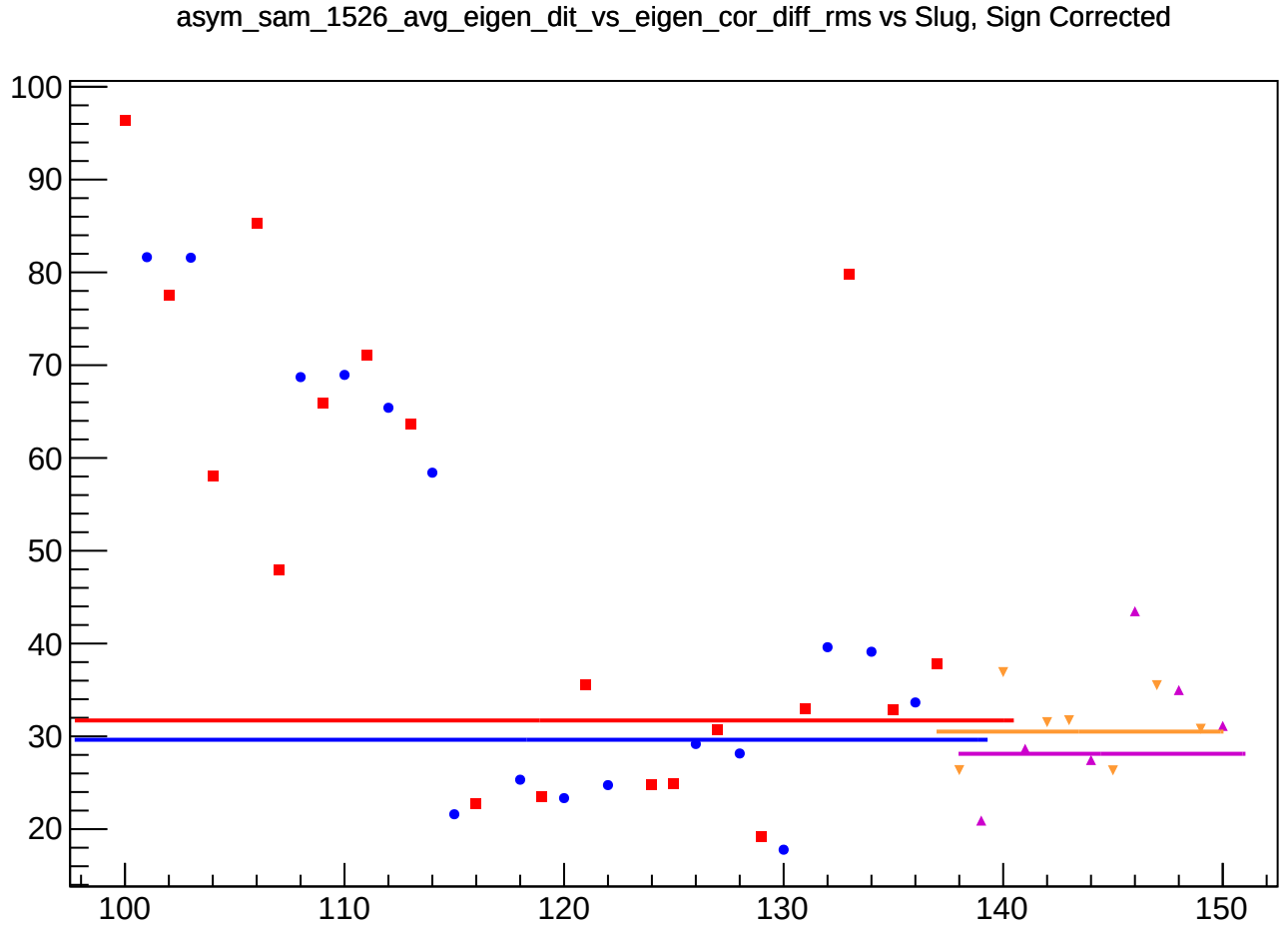
Left: 0.003+/-0.009 $\chi^2$/NDF: 26.8/12

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.010+/-0.009 $\chi^2$/NDF:28.3/21

Out: -0.007+/-0.010 $\chi^2$/NDF:23.4/25

All: 0.002+/-0.007 $\chi^2$/NDF: 53.5/47




Right In: 29.633+/-0.009 $\chi^2$/NDF: 2448670.6/15

Left Out: 30.512+/-0.010 $\chi^2$/NDF:153335.9/6

Right Out: 31.711+/-0.009 $\chi^2$/NDF: 2651638.6/18

Left In: 28.121+/-0.009 $\chi^2$/NDF:461057.1/5

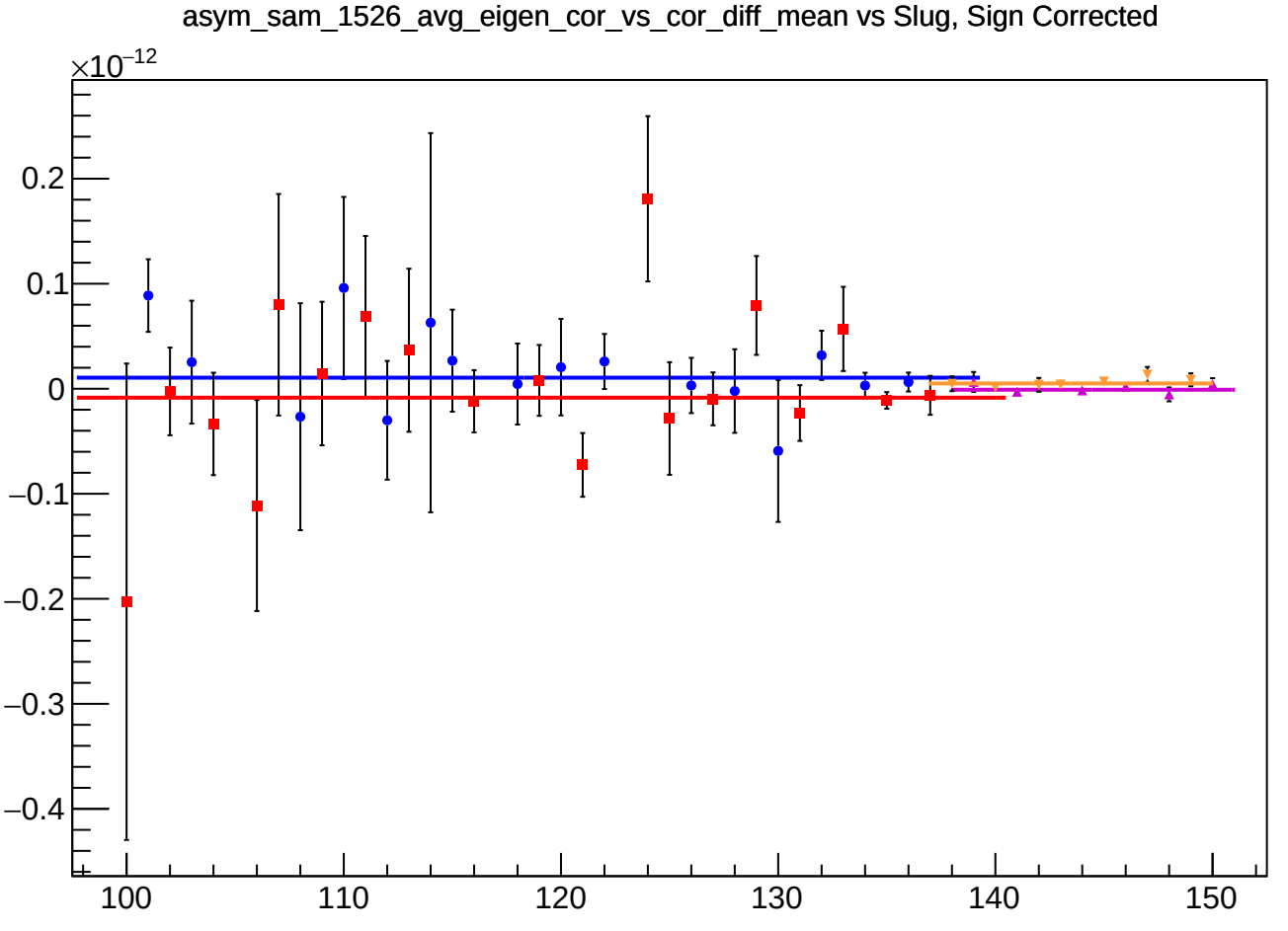
Left: 29.248+/-0.007 $\chi^2$/NDF: 646731.7/12

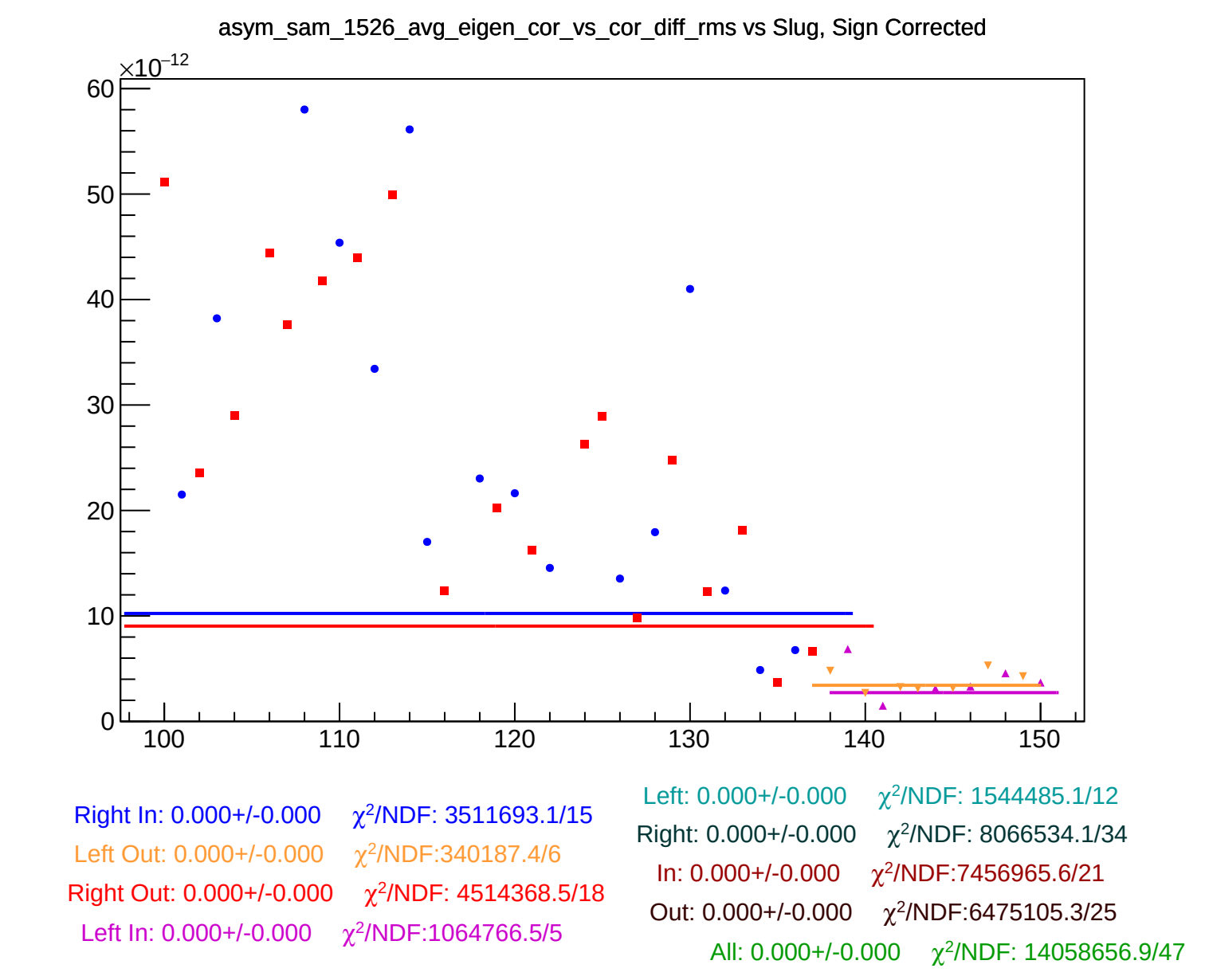
Right: 30.617+/-0.006 $\chi^2$/NDF: 5126235.3/34

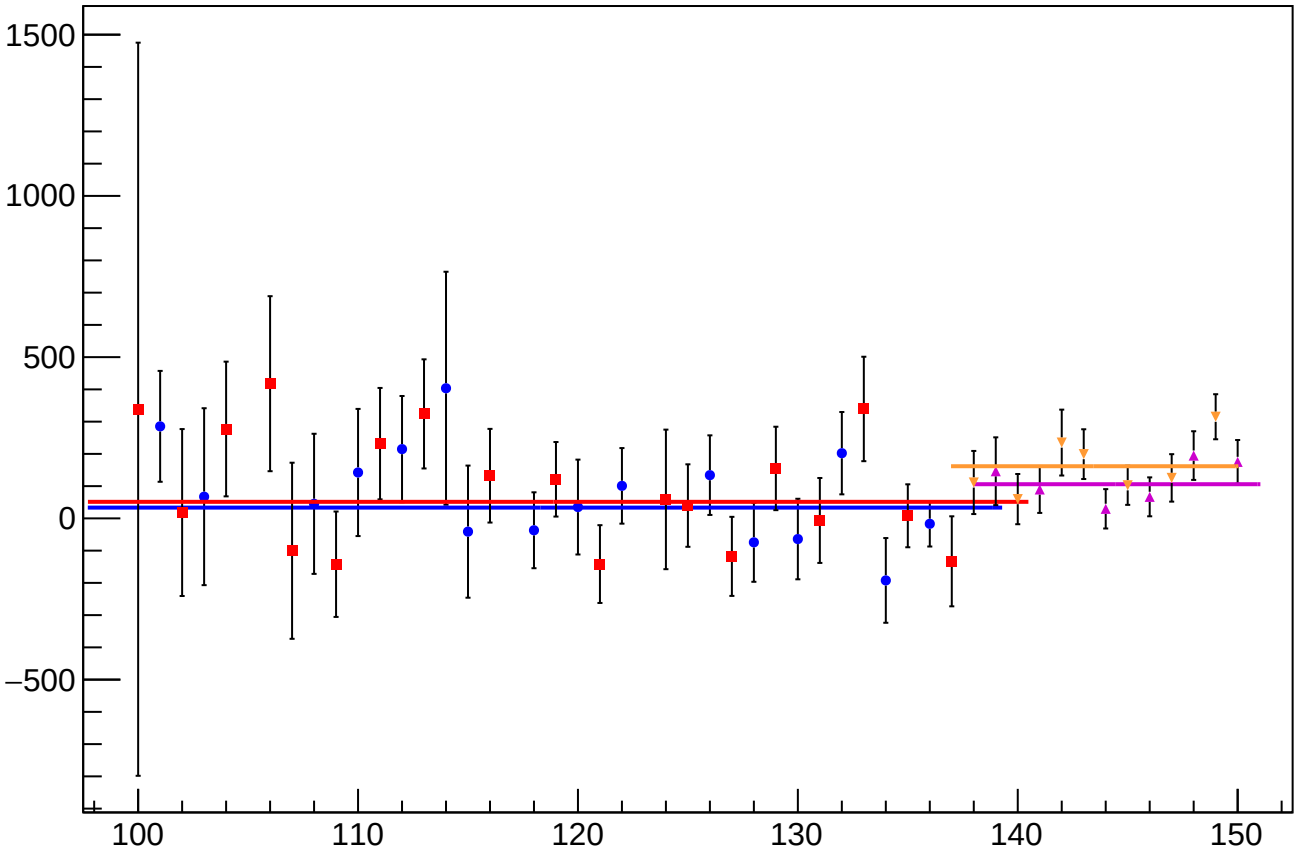
In: 28.898+/-0.006 $\chi^2$/NDF:2923828.2/21

Out: 31.131+/-0.007 $\chi^2$/NDF:2812902.7/25

All: 29.953+/-0.005 $\chi^2$/NDF: 5794888.7/47


asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 10.1/15
Left Out: 0.000+/-0.000 χ²/NDF:2.9/6
Right Out: -0.000+/-0.000 χ²/NDF: 21.4/18
Left In: -0.000+/-0.000 χ²/NDF:3.0/5
Left: 0.000+/-0.000 χ²/NDF: 11.0/12
Right: 0.000+/-0.000 χ²/NDF: 36.6/34
In: -0.000+/-0.000 χ²/NDF:16.4/21
Out: 0.000+/-0.000 χ²/NDF:29.0/25
All: 0.000+/-0.000 χ²/NDF: 47.7/47


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 3511693.1/15
Left Out: 0.000+/-0.000 χ²/NDF:340187.4/6
Right Out: 0.000+/-0.000 χ²/NDF: 4514368.5/18
Left In: 0.000+/-0.000 χ²/NDF:1064766.5/5
Left: 0.000+/-0.000 χ²/NDF: 1544485.1/12
Right: 0.000+/-0.000 χ²/NDF: 8066534.1/34
In: 0.000+/-0.000 χ²/NDF:7456965.6/21
Out: 0.000+/-0.000 χ²/NDF:6475105.3/25
All: 0.000+/-0.000 χ²/NDF: 14058656.9/47




Right In: 33.431+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 161.715+/-28.938 $\chi^2$/NDF:8.7/6

Right Out: 51.335+/-34.851 $\chi^2$/NDF: 19.6/18

Left In: 105.969+/-28.680 $\chi^2$/NDF:4.6/5

Left: 133.593+/-20.371 $\chi^2$/NDF: 15.2/12

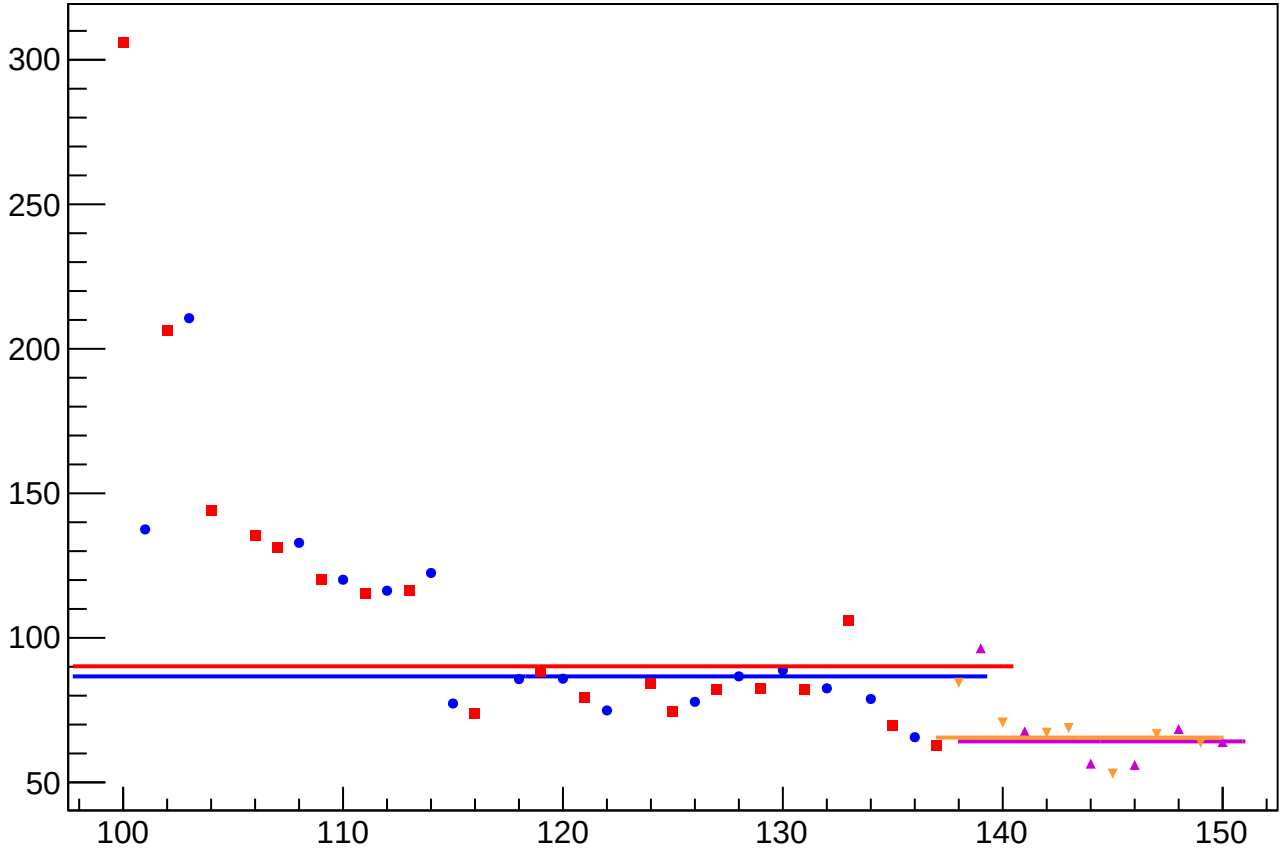
Right: 42.130+/-24.293 $\chi^2$/NDF: 32.5/34

In: 75.688+/-21.890 $\chi^2$/NDF:20.1/21

Out: 116.669+/-22.264 $\chi^2$/NDF:34.2/25

All: 95.832+/-15.609 $\chi^2$/NDF: 56.1/47

# reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038813.4/15

Left Out: 65.503+/-0.020 $\chi^2$/NDF:174570.8/6

Right Out: 90.153+/-0.025 $\chi^2$/NDF: 1149976.9/18

Left In: 64.169+/-0.020 $\chi^2$/NDF:267211.3/5

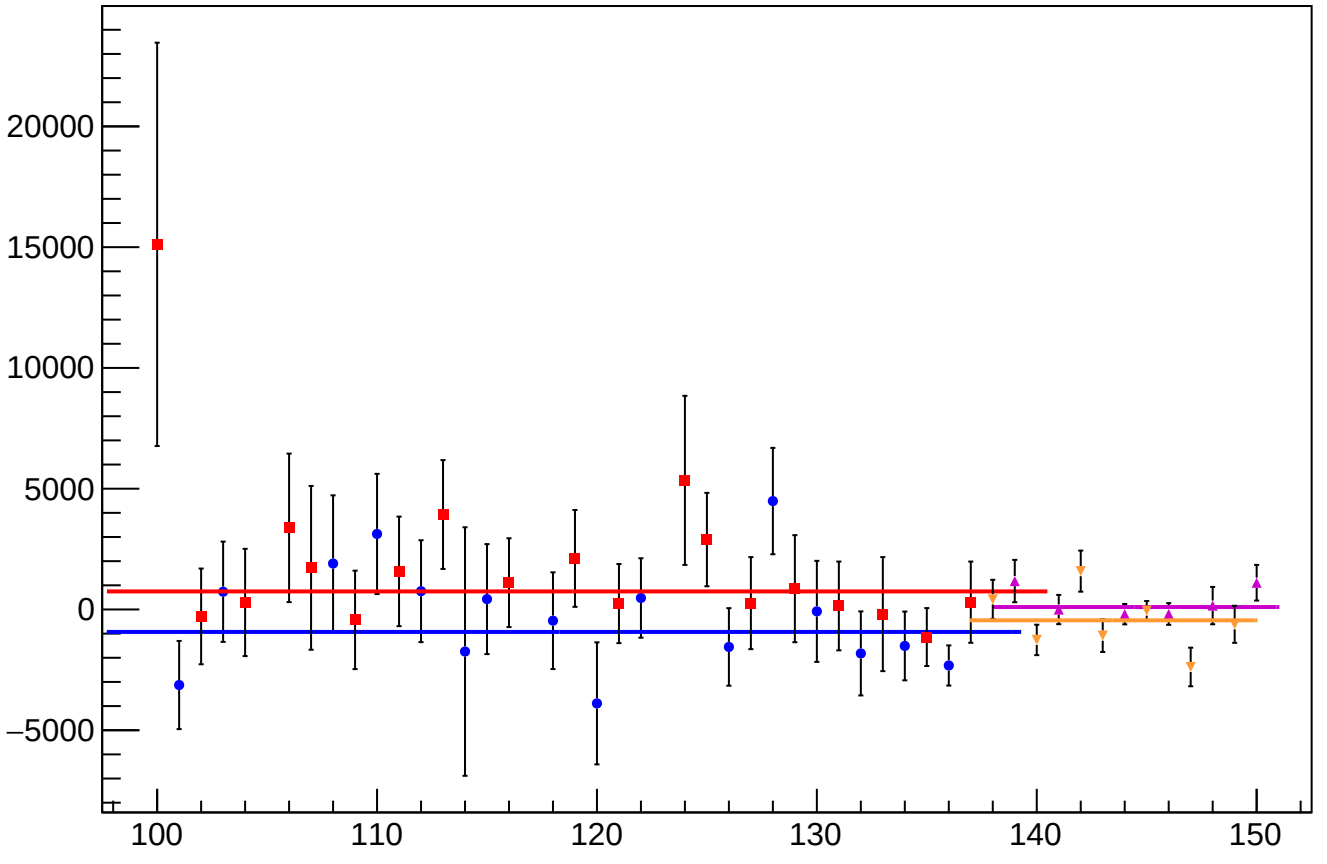
Left: 64.830+/-0.014 $\chi^2$/NDF: 443925.3/12

Right: 88.360+/-0.017 $\chi^2$/NDF: 2199082.5/34

In: 73.560+/-0.015 $\chi^2$/NDF:1819728.5/21

Out: 75.562+/-0.016 $\chi^2$/NDF:1916774.4/25

All: 74.545+/-0.011 $\chi^2$/NDF: 3744725.7/47




Right In: -929.821+/-440.893 $\chi^2$/NDF: 18.5/15

Left Out: -449.744+/-240.406 $\chi^2$/NDF:16.4/6

Right Out: 747.199+/-467.902 $\chi^2$/NDF: 13.0/18

Left In: 100.380+/-235.079 $\chi^2$/NDF:4.3/5

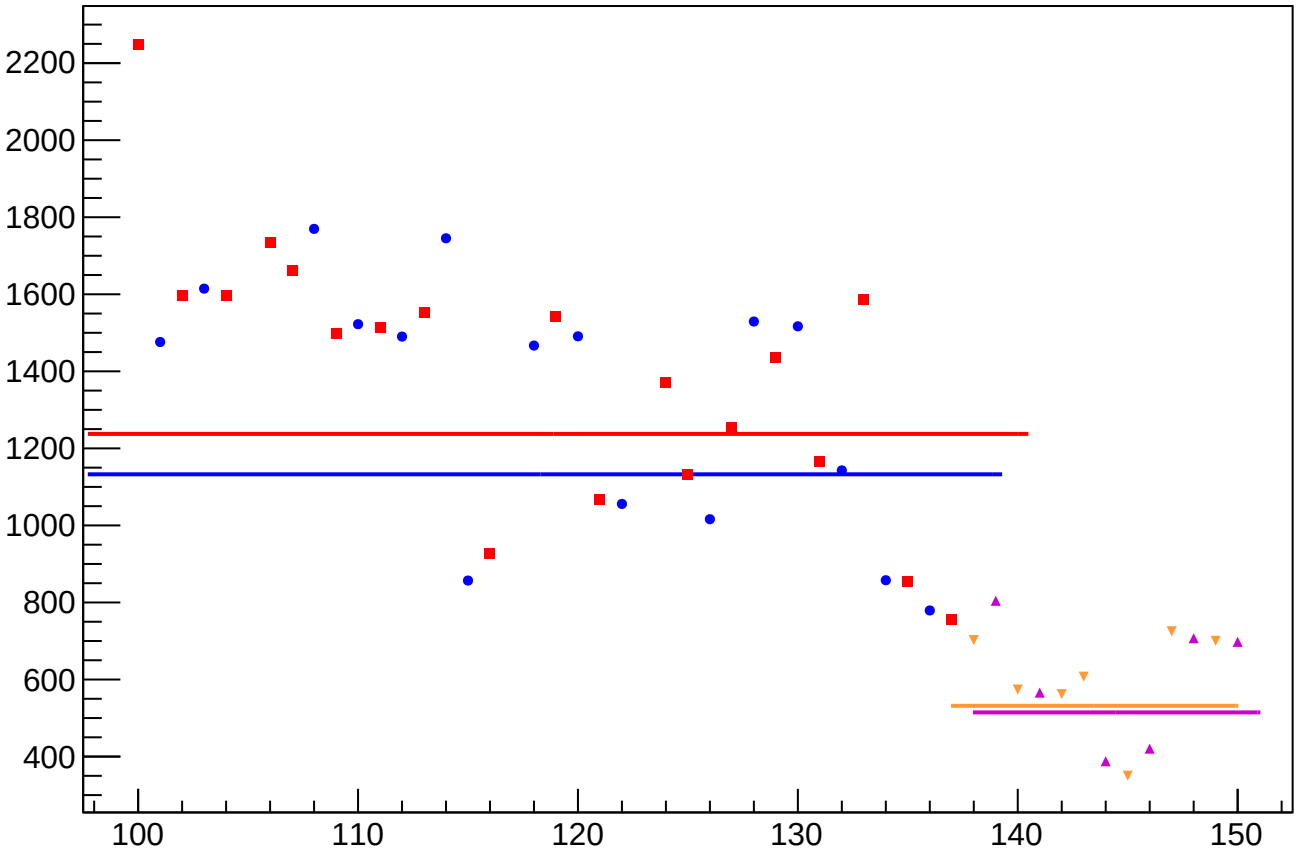
Left: -168.519+/-168.078 $\chi^2$/NDF: 23.3/12

Right: -141.108+/-320.882 $\chi^2$/NDF: 38.3/34

In: -127.664+/-207.435 $\chi^2$/NDF:27.1/21

Out: -199.761+/-213.833 $\chi^2$/NDF:34.5/25

All: -162.618+/-148.889 $\chi^2$/NDF: 61.7/47




Right In: 1132.688+/-0.312 $\chi^2$/NDF: 1124151.1/15

Left Out: 531.787+/-0.170 $\chi^2$/NDF:761475.9/6

Right Out: 1237.591+/-0.331 $\chi^2$/NDF: 895314.3/18

Left In: 514.678+/-0.166 $\chi^2$/NDF:748030.6/5

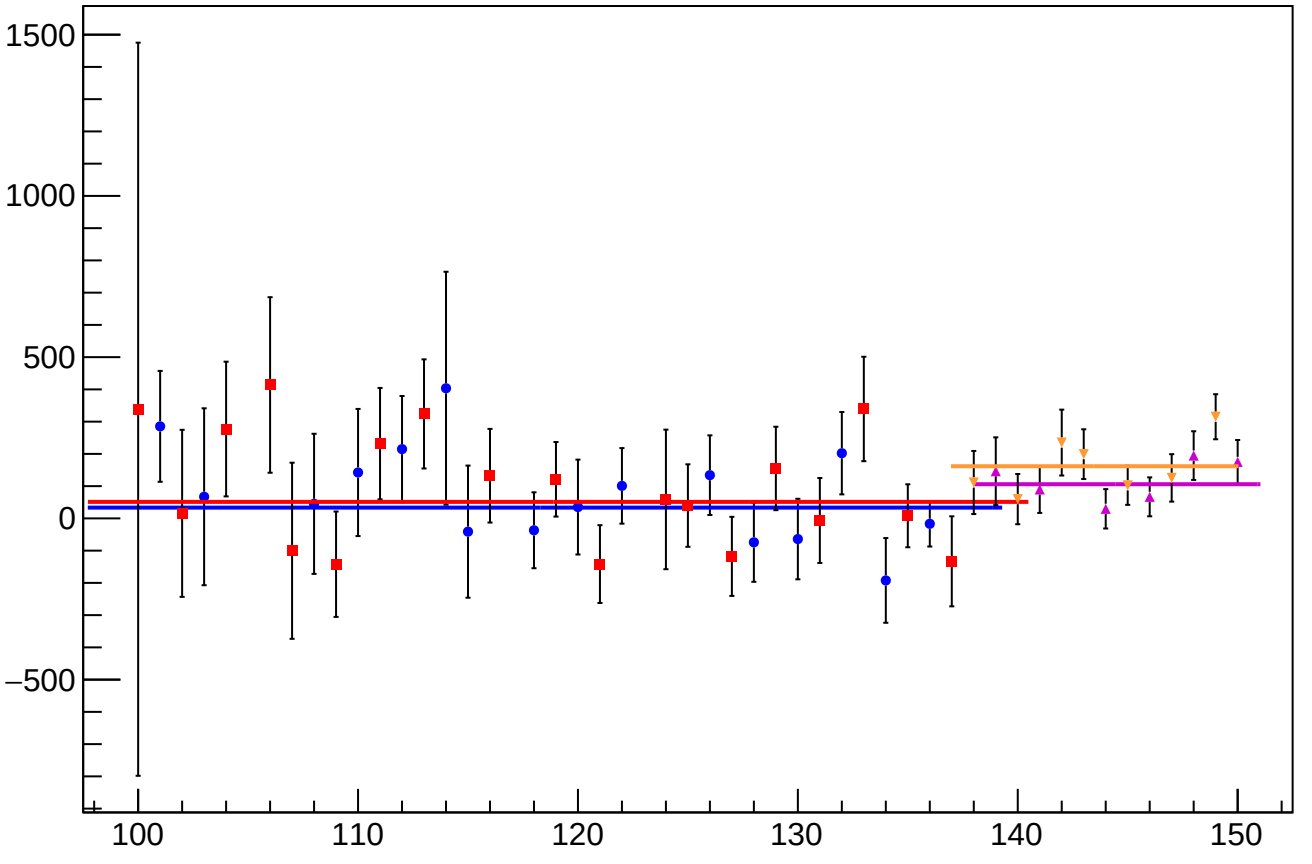
Left: 523.041+/-0.119 $\chi^2$/NDF: 1514684.3/12

Right: 1182.025+/-0.227 $\chi^2$/NDF: 2072715.6/34

In: 651.480+/-0.147 $\chi^2$/NDF:4931970.1/21

Out: 679.195+/-0.151 $\chi^2$/NDF:5257155.1/25

All: 664.917+/-0.105 $\chi^2$/NDF: 10206433.5/47




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 161.722+/-28.938 $\chi^2$/NDF:8.7/6

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 105.967+/-28.680 $\chi^2$/NDF:4.6/5

Left: 133.595+/-20.371 $\chi^2$/NDF: 15.2/12

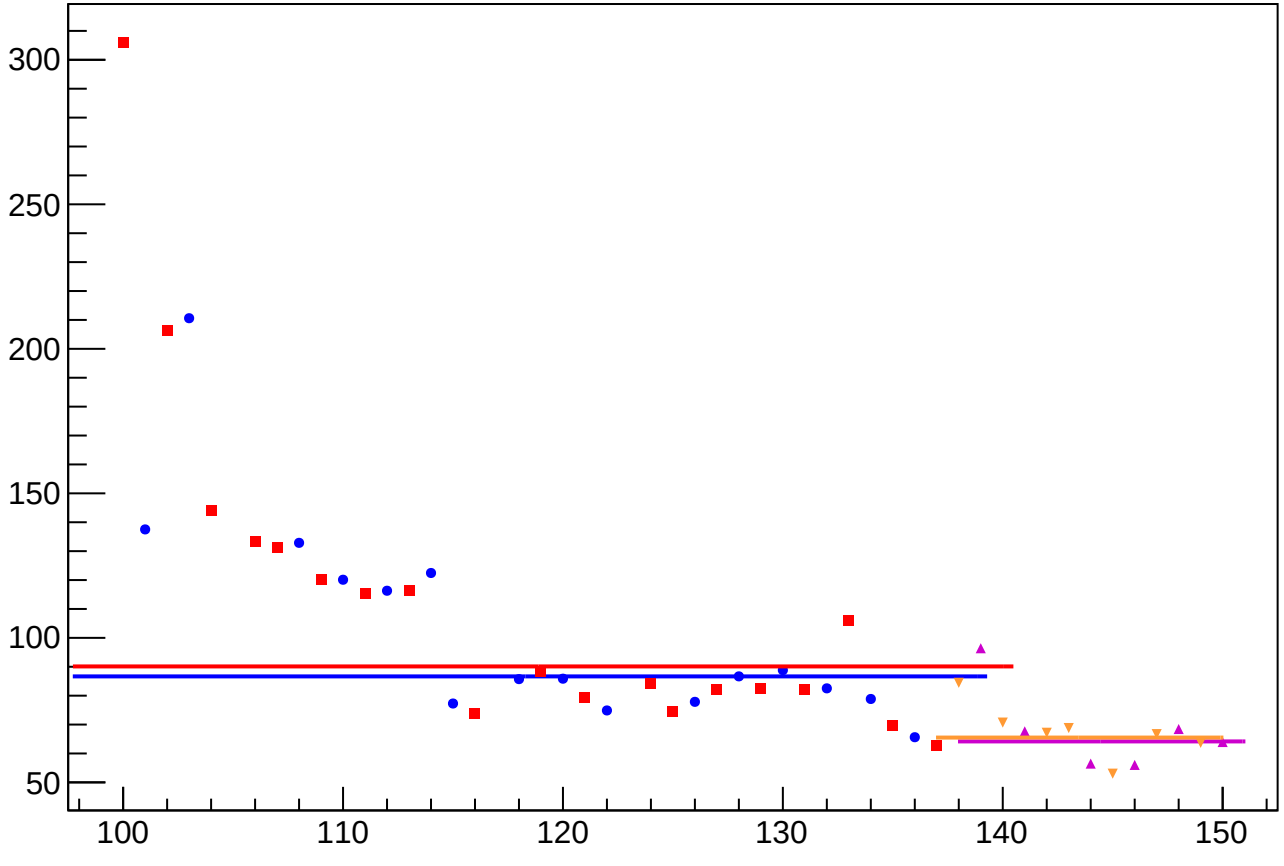
Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 75.684+/-21.890 $\chi^2$/NDF:20.1/21

Out: 116.616+/-22.264 $\chi^2$/NDF:34.2/25

All: 95.803+/-15.609 $\chi^2$/NDF: 56.0/47

# cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 65.503+/-0.020 $\chi^2$/NDF:174570.8/6

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 64.169+/-0.020 $\chi^2$/NDF:267211.3/5

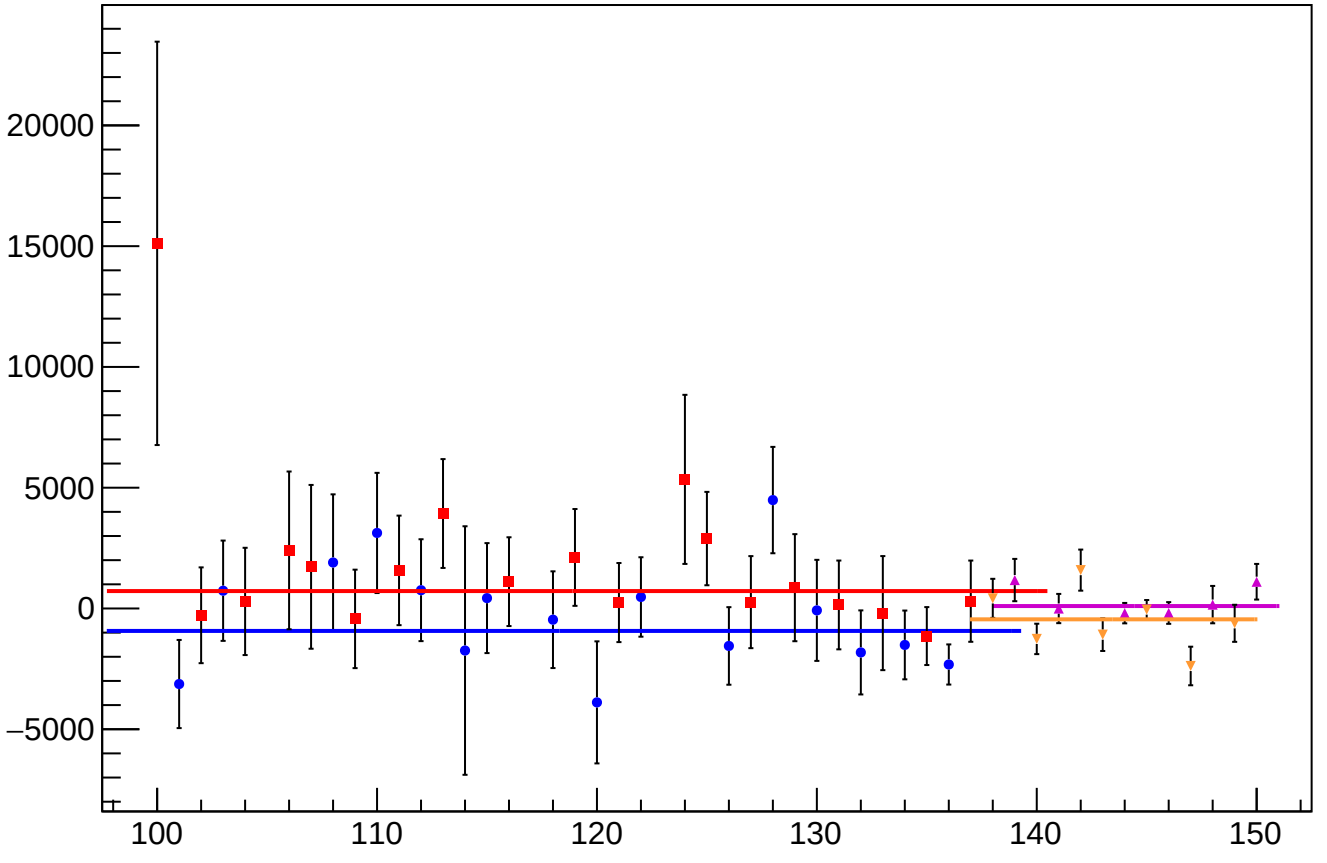
Left: 64.830+/-0.014 $\chi^2$/NDF: 443925.3/12

Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 73.560+/-0.015 $\chi^2$/NDF:1819731.0/21

Out: 75.547+/-0.016 $\chi^2$/NDF:1910257.5/25

All: 74.537+/-0.011 $\chi^2$/NDF: 3738081.5/47




Right In: -929.788+/-440.894 $\chi^2$/NDF: 18.5/15

Left Out: -449.737+/-240.406 $\chi^2$/NDF:16.4/6

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 100.383+/-235.079 $\chi^2$/NDF:4.3/5

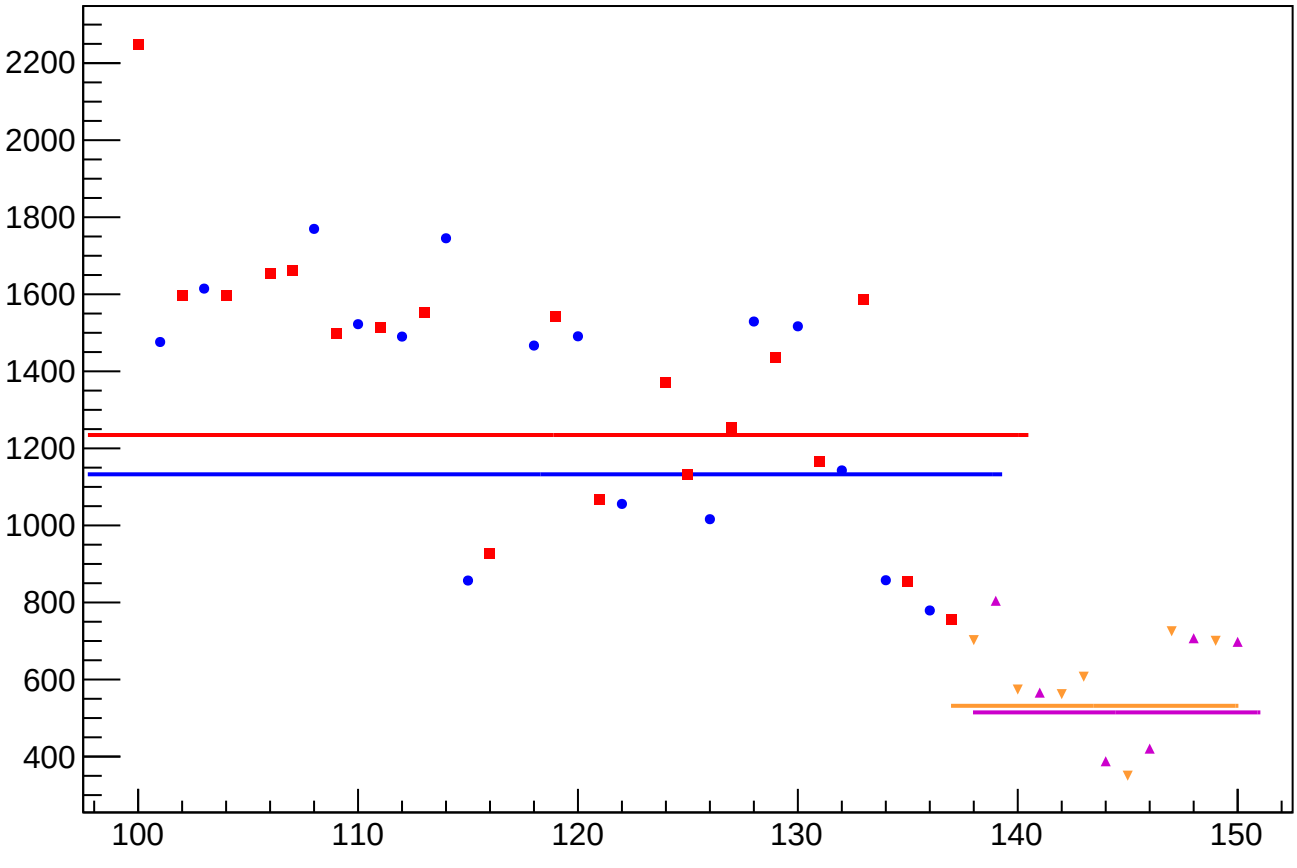
Left: -168.515+/-168.077 $\chi^2$/NDF: 23.3/12

Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: -127.654+/-207.435 $\chi^2$/NDF:27.1/21

Out: -205.837+/-213.893 $\chi^2$/NDF:33.8/25

All: -165.547+/-148.910 $\chi^2$/NDF: 61.0/47




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 531.786+/-0.170 $\chi^2$/NDF:761476.5/6

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 514.678+/-0.166 $\chi^2$/NDF:748032.0/5

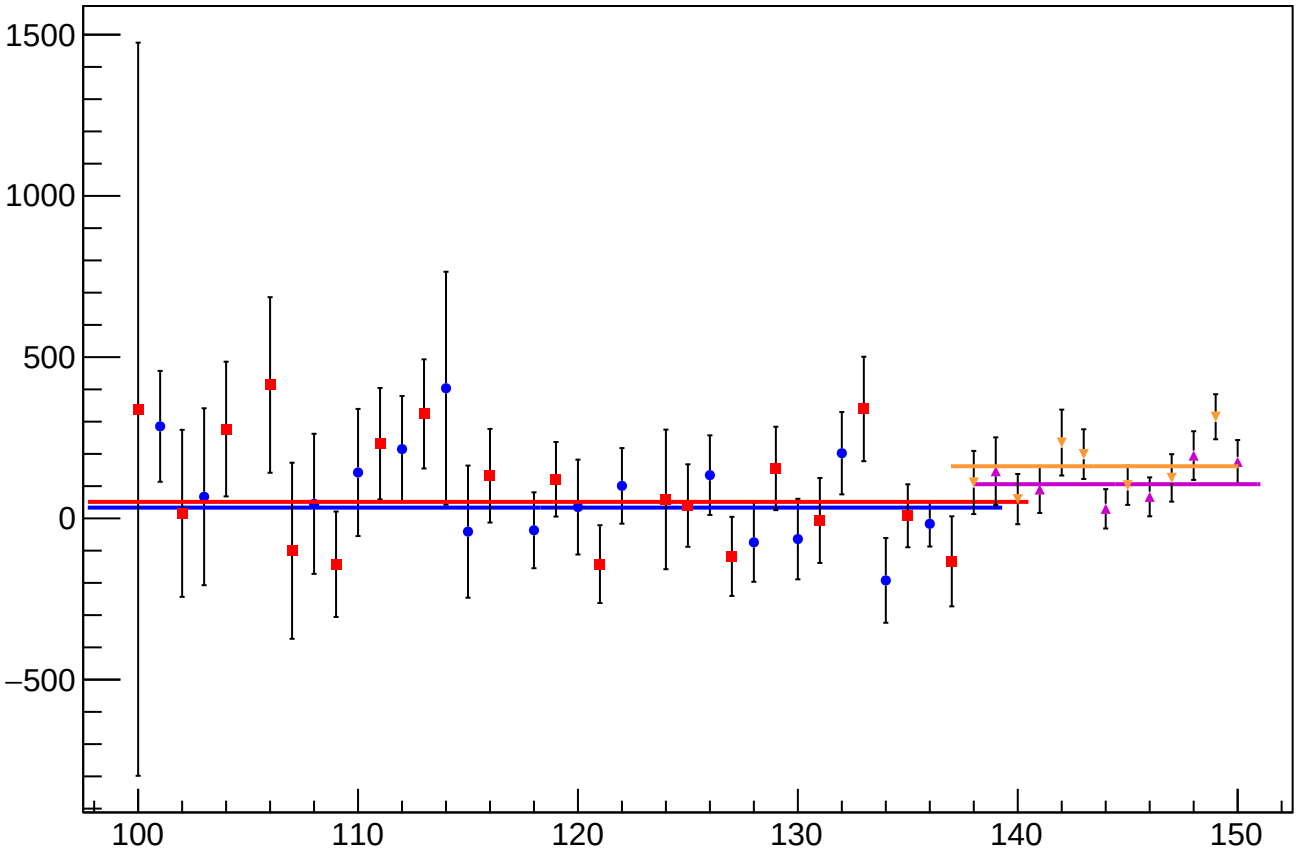
Left: 523.041+/-0.119 $\chi^2$/NDF: 1514686.1/12

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 651.480+/-0.147 $\chi^2$/NDF:4932007.2/21

Out: 678.276+/-0.151 $\chi^2$/NDF:5201085.0/25

All: 664.468+/-0.105 $\chi^2$/NDF: 10149267.8/47




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 161.722+/-28.938 $\chi^2$/NDF:8.7/6

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 105.967+/-28.680 $\chi^2$/NDF:4.6/5

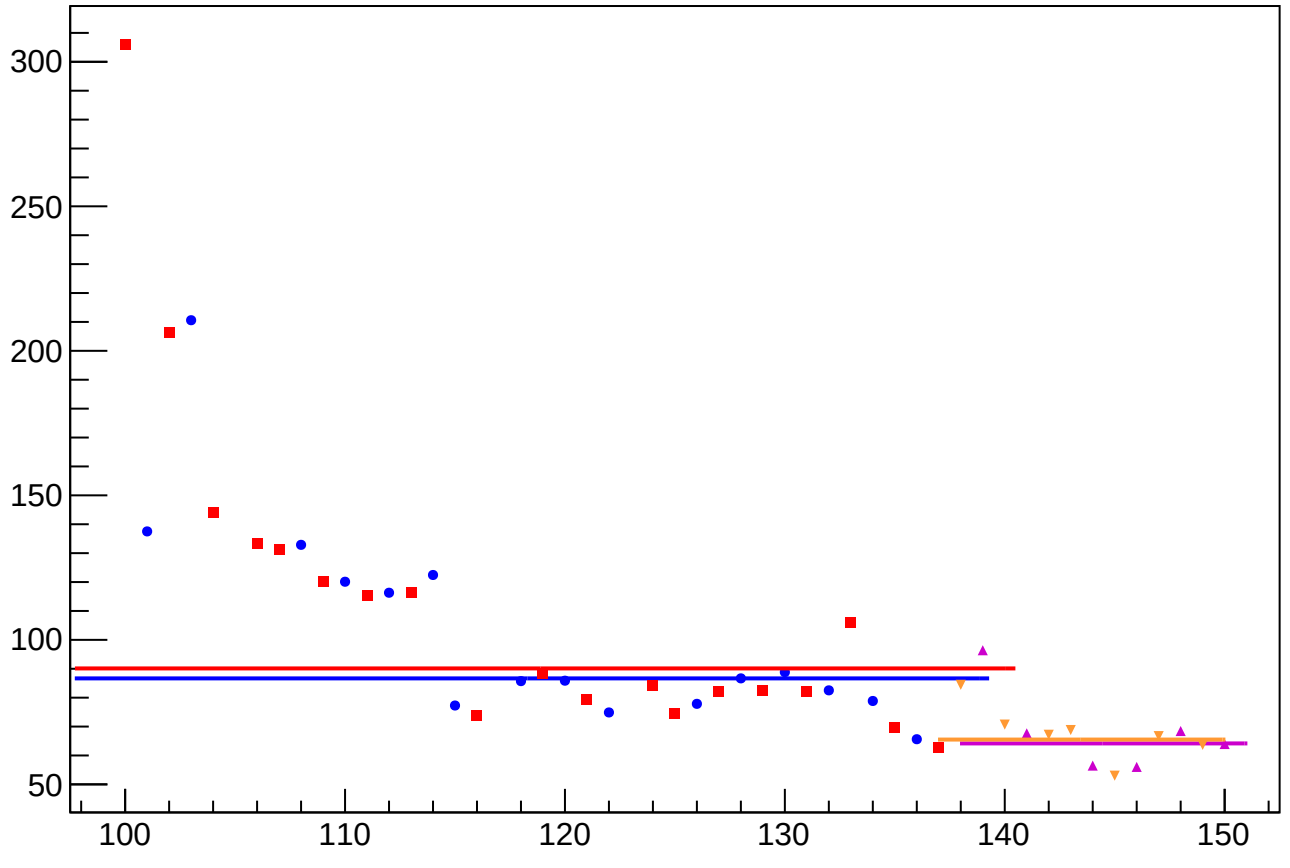
Left: 133.595+/-20.371 $\chi^2$/NDF: 15.2/12

Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 75.684+/-21.890 $\chi^2$/NDF:20.1/21

Out: 116.616+/-22.264 $\chi^2$/NDF:34.2/25

All: 95.803+/-15.609 $\chi^2$/NDF: 56.0/47




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 65.503+/-0.020 $\chi^2$/NDF:174570.8/6

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 64.169+/-0.020 $\chi^2$/NDF:267211.3/5

Left: 64.830+/-0.014 $\chi^2$/NDF: 443925.3/12

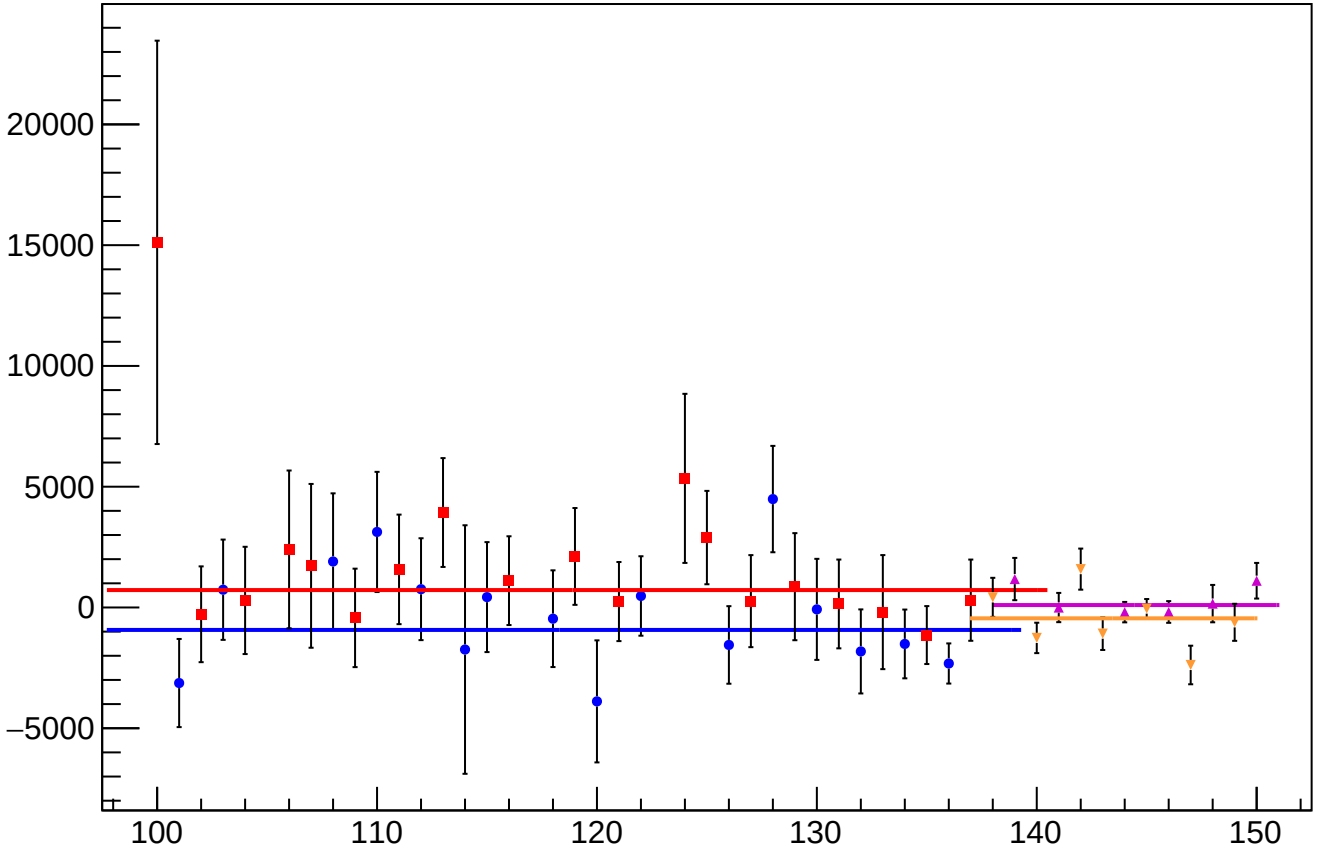
Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 73.560+/-0.015 $\chi^2$/NDF:1819731.0/21

Out: 75.547+/-0.016 $\chi^2$/NDF:1910257.5/25

All: 74.537+/-0.011 $\chi^2$/NDF: 3738081.5/47

asym_sam_3726_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -929.788+/-440.894 $\chi^2$/NDF: 18.5/15

Left Out: -449.737+/-240.406 $\chi^2$/NDF:16.4/6

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 100.383+/-235.079 $\chi^2$/NDF:4.3/5

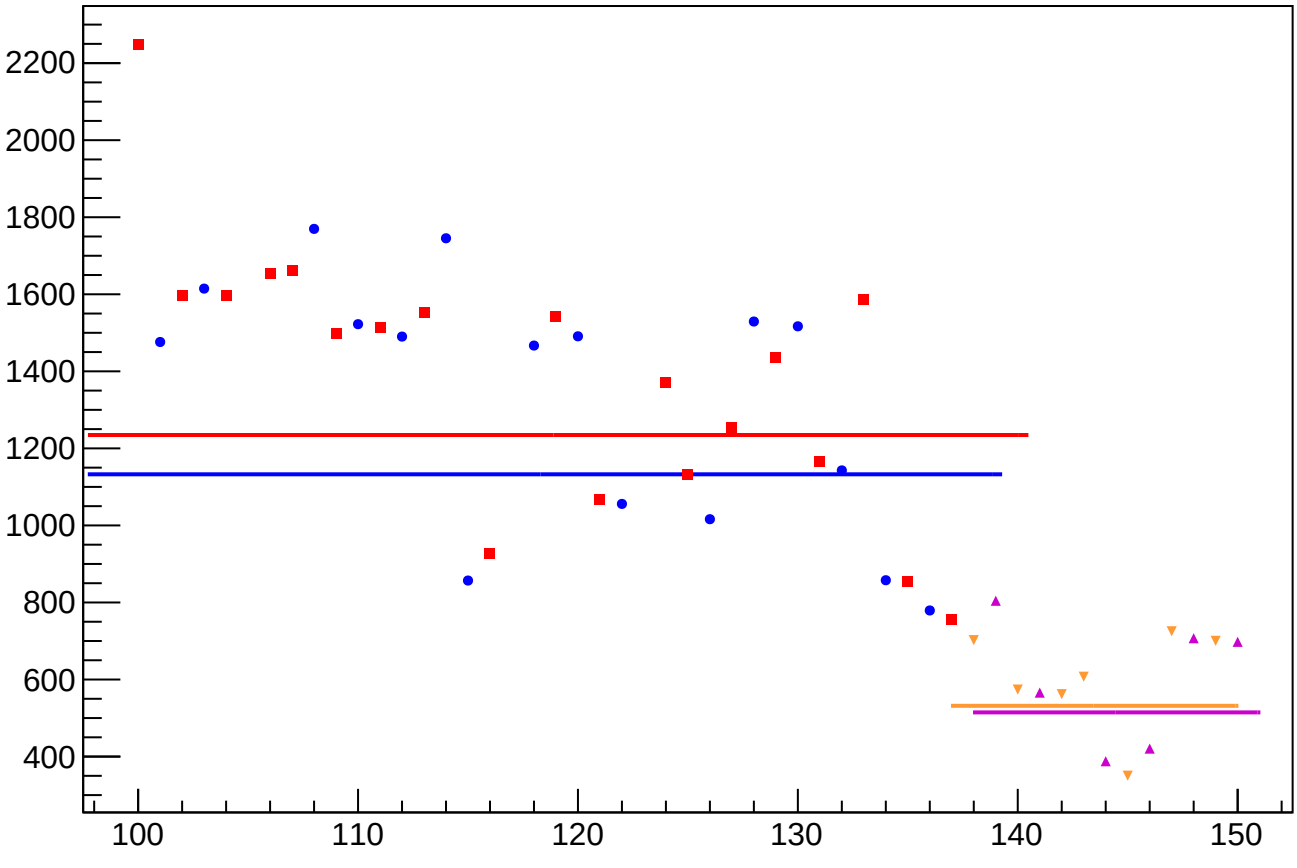
Left: -168.515+/-168.077 $\chi^2$/NDF: 23.3/12

Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: -127.654+/-207.435 $\chi^2$/NDF:27.1/21

Out: -205.837+/-213.893 $\chi^2$/NDF:33.8/25

All: -165.547+/-148.910 $\chi^2$/NDF: 61.0/47




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 531.786+/-0.170 $\chi^2$/NDF:761476.5/6

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 514.678+/-0.166 $\chi^2$/NDF:748032.0/5

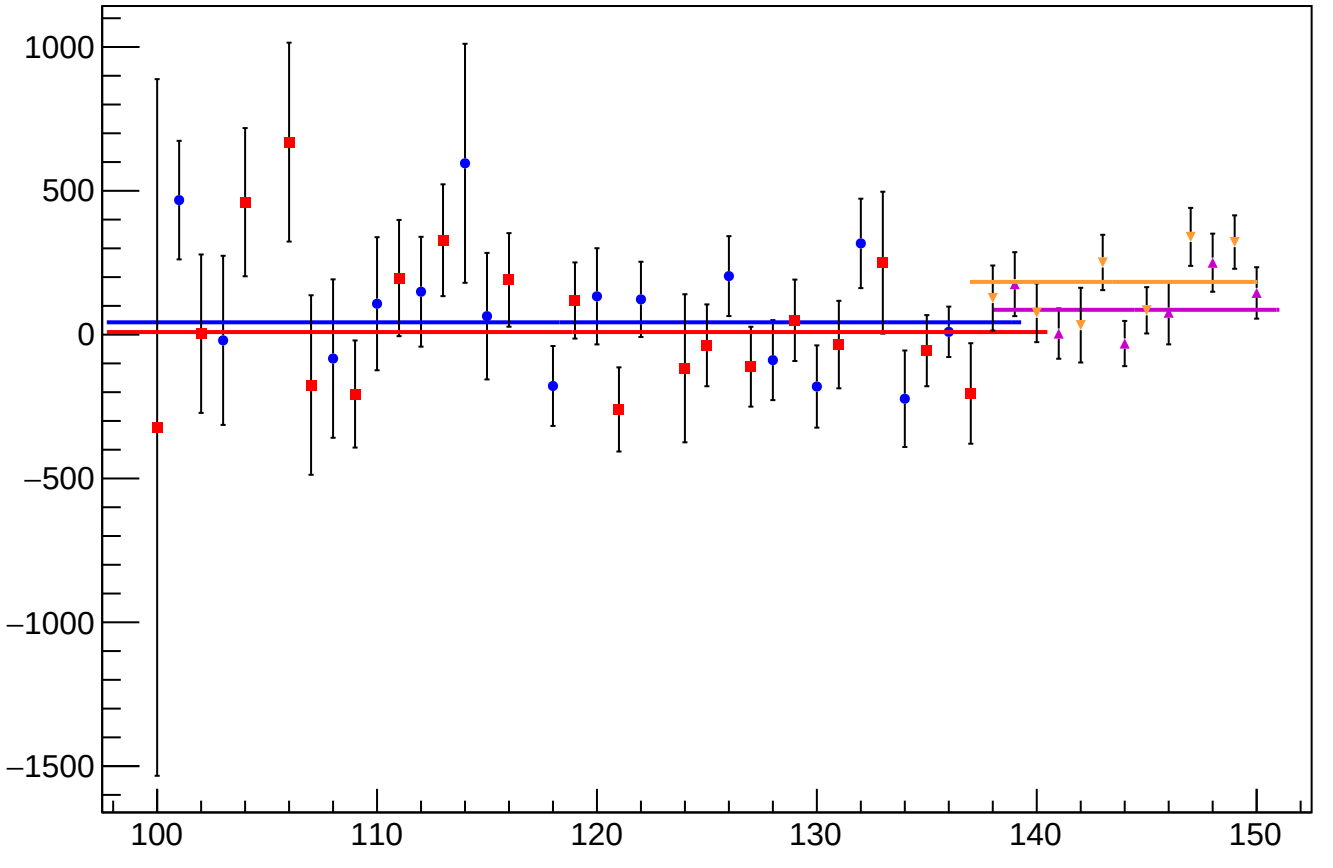
Left: 523.041+/-0.119 $\chi^2$/NDF: 1514686.1/12

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 651.480+/-0.147 $\chi^2$/NDF:4932007.2/21

Out: 678.276+/-0.151 $\chi^2$/NDF:5201085.0/25

All: 664.468+/-0.105 $\chi^2$/NDF: 10149267.8/47




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 183.329+/-37.524 $\chi^2$/NDF:9.3/6

Right Out: 8.989+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 86.357+/-38.367 $\chi^2$/NDF:6.8/5

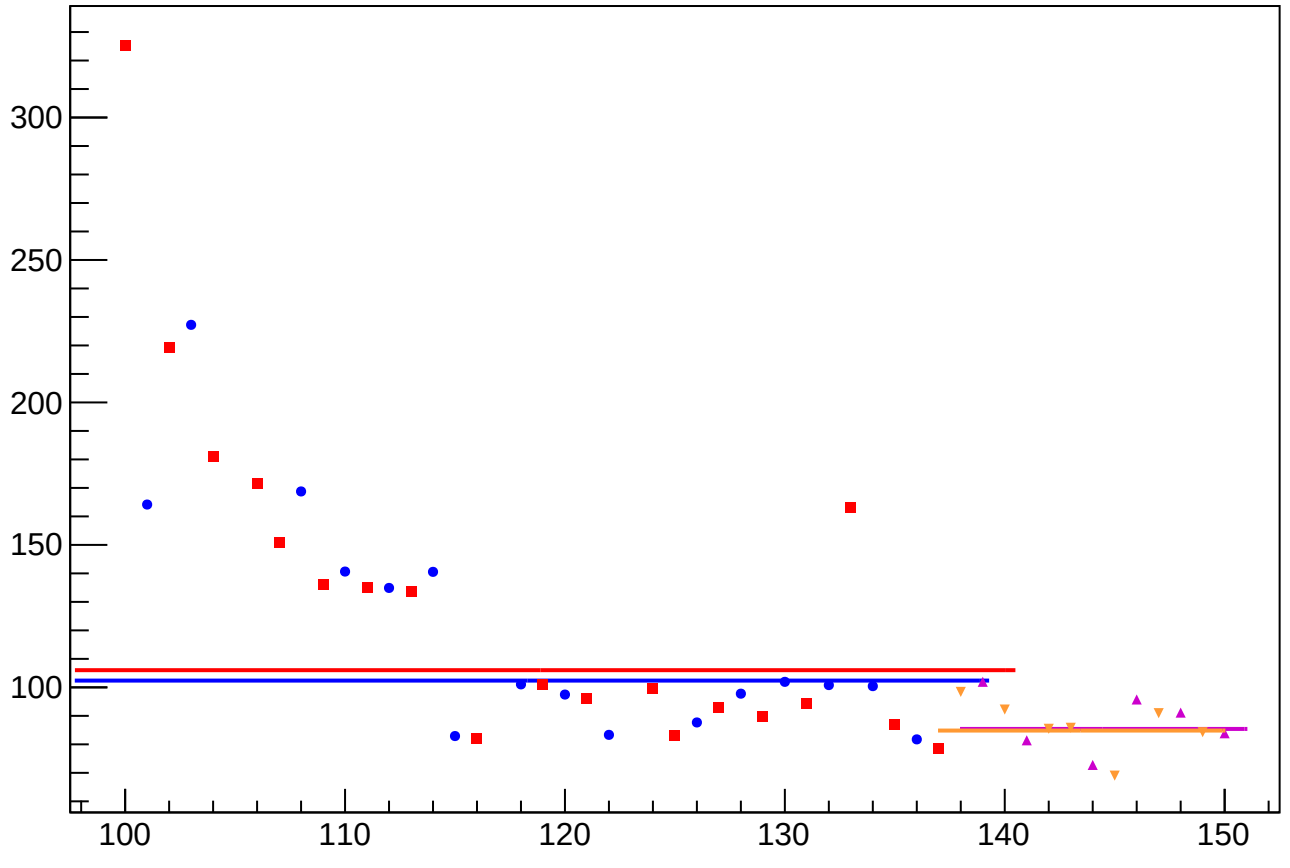
Left: 135.921+/-26.827 $\chi^2$/NDF: 19.4/12

Right: 26.417+/-28.632 $\chi^2$/NDF: 42.0/34

In: 65.512+/-27.672 $\chi^2$/NDF:27.8/21

Out: 103.988+/-27.699 $\chi^2$/NDF:40.5/25

All: 84.731+/-19.577 $\chi^2$/NDF: 69.2/47




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982311.5/15

Left Out: 84.841+/-0.027 $\chi^2$/NDF:124175.8/6

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191294.0/18

Left In: 85.410+/-0.027 $\chi^2$/NDF:124770.8/5

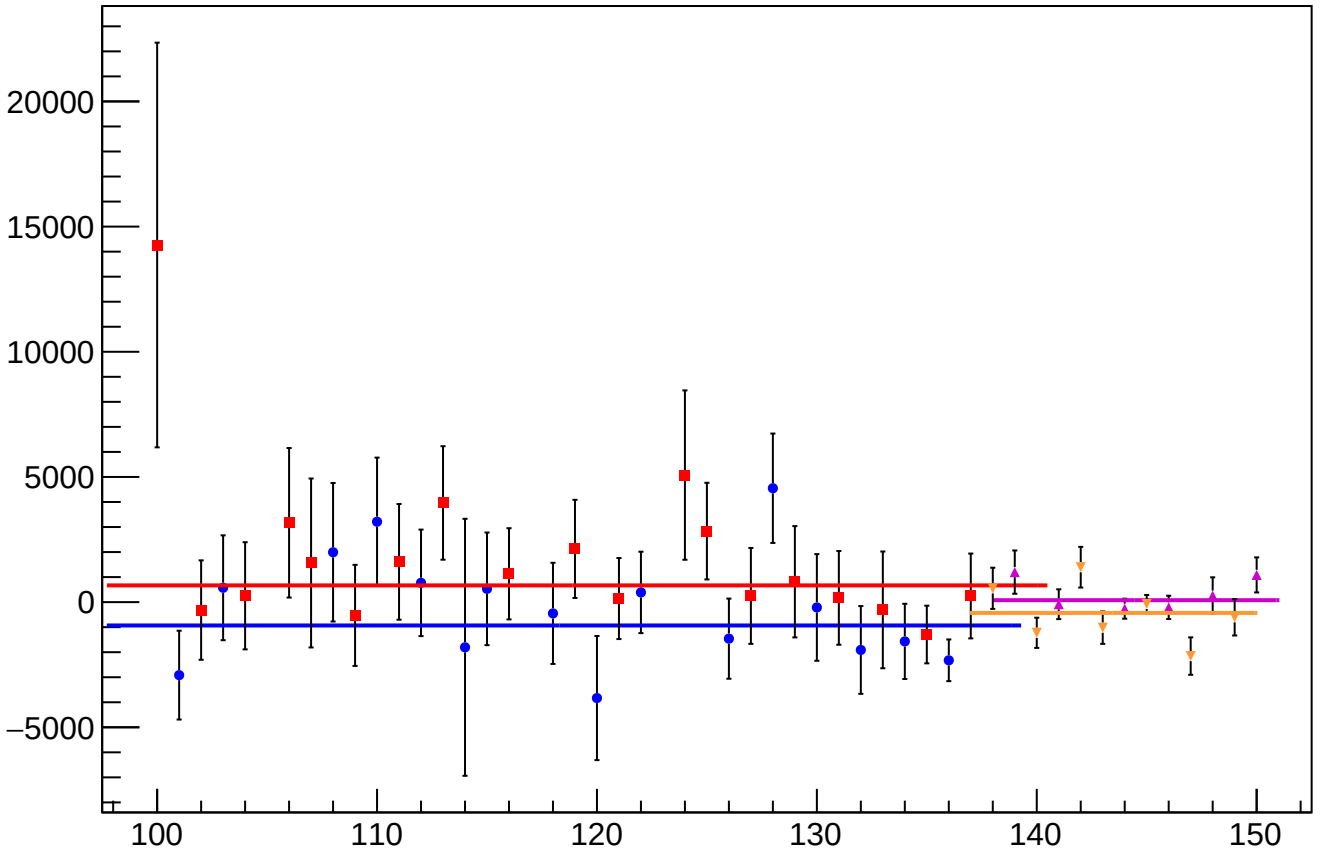
Left: 85.119+/-0.019 $\chi^2$/NDF: 249171.3/12

Right: 104.155+/-0.020 $\chi^2$/NDF: 2181742.7/34

In: 93.552+/-0.020 $\chi^2$/NDF:1294784.8/21

Out: 94.485+/-0.020 $\chi^2$/NDF:1605759.1/25

All: 94.018+/-0.014 $\chi^2$/NDF: 2901680.4/47




Right In: -932.381+/-442.724 $\chi^2$/NDF: 18.5/15

Left Out: -431.669+/-226.083 $\chi^2$/NDF:15.4/6

Right Out: 668.521+/-463.213 $\chi^2$/NDF: 13.5/18

Left In: 77.231+/-229.799 $\chi^2$/NDF:5.0/5

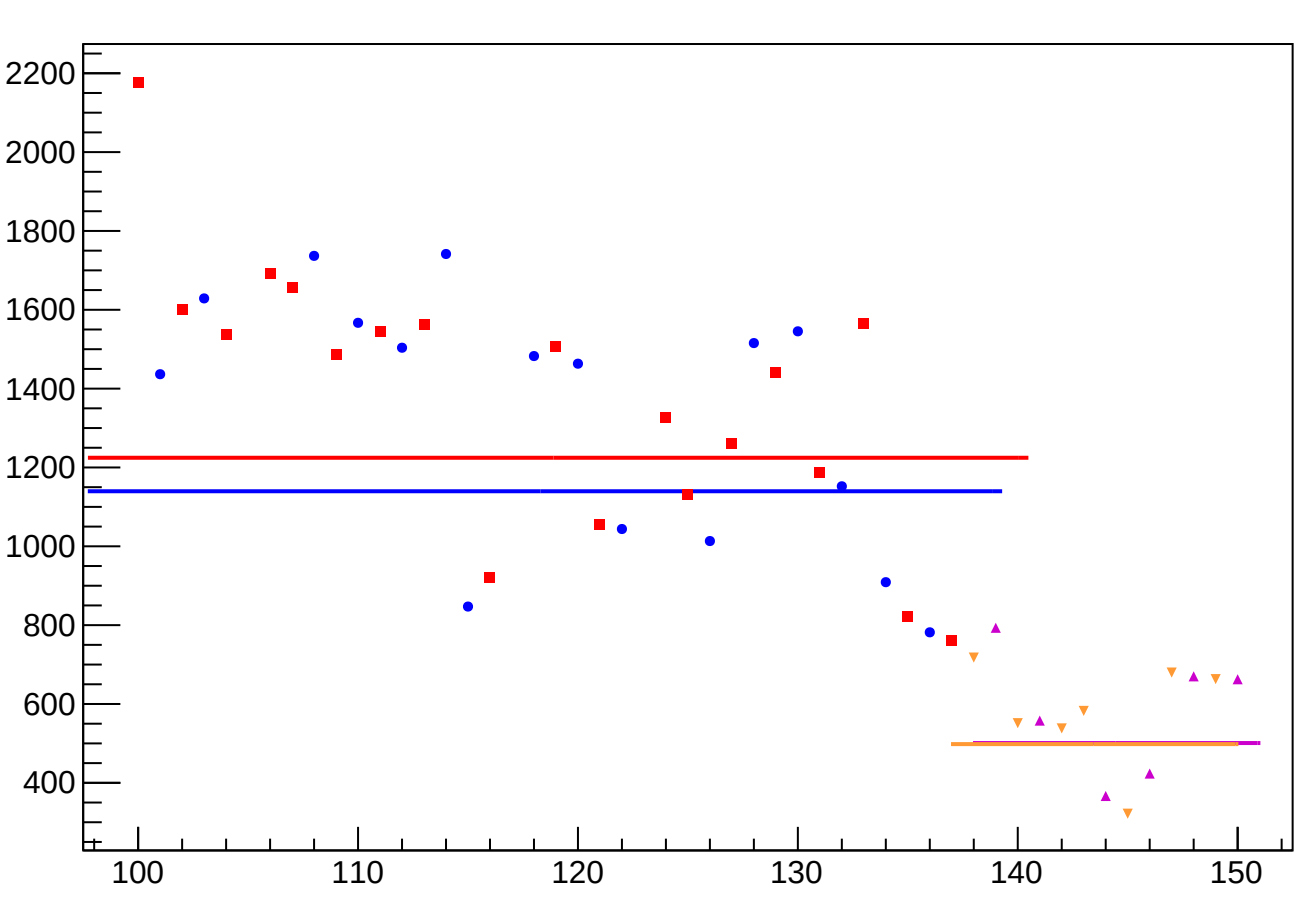
Left: -181.368+/-161.163 $\chi^2$/NDF: 22.9/12

Right: -168.117+/-320.052 $\chi^2$/NDF: 38.2/34

In: -137.048+/-203.960 $\chi^2$/NDF:27.6/21

Out: -220.006+/-203.174 $\chi^2$/NDF:33.4/25

All: -178.687+/-143.943 $\chi^2$/NDF: 61.1/47




Right In: 1139.658+/-0.313 $\chi^2$/NDF: 1093410.3/15

Left Out: 498.222+/-0.160 $\chi^2$/NDF:900804.7/6

Right Out: 1224.637+/-0.328 $\chi^2$/NDF: 922388.4/18

Left In: 500.936+/-0.162 $\chi^2$/NDF:742001.3/5

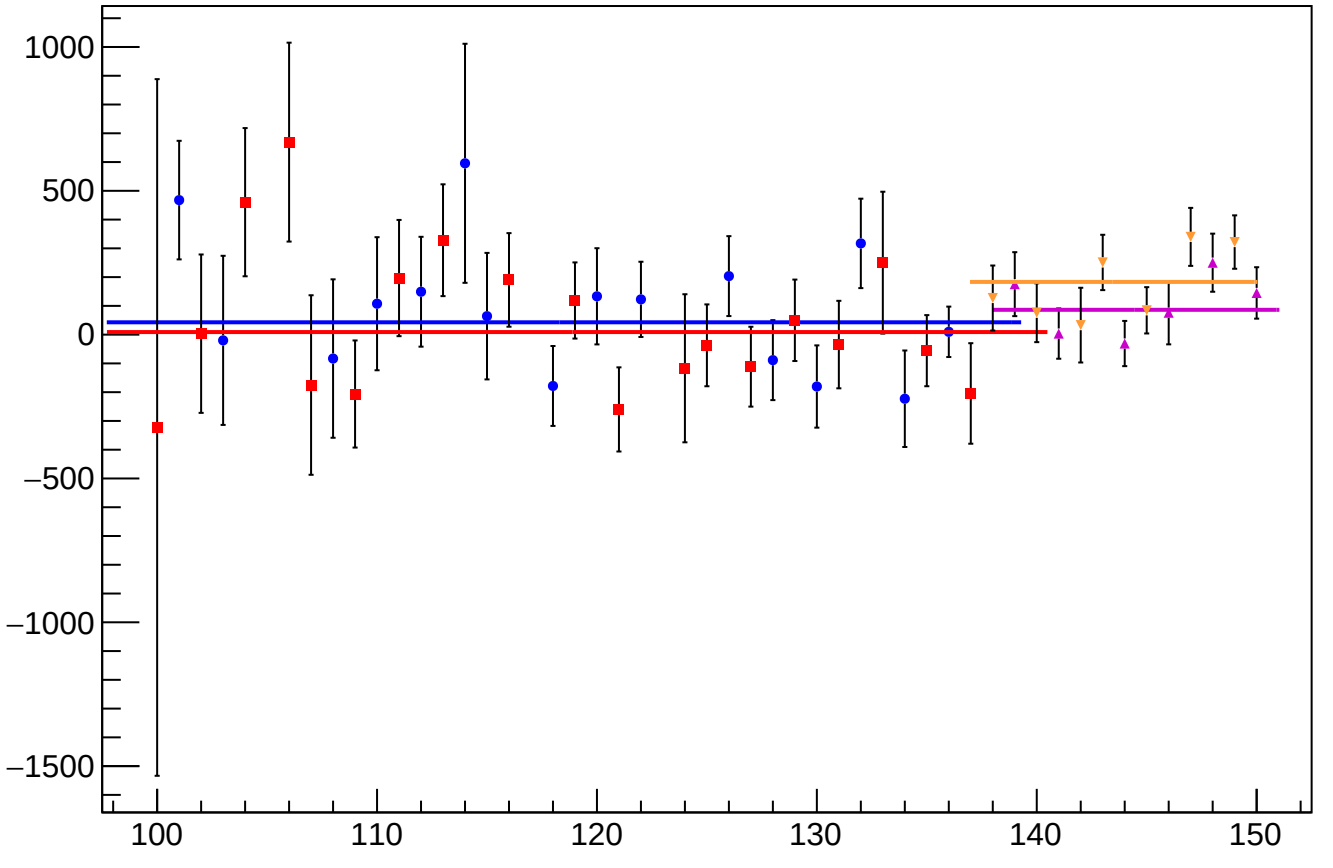
Left: 499.557+/-0.114 $\chi^2$/NDF: 1642947.8/12

Right: 1180.226+/-0.226 $\chi^2$/NDF: 2050976.5/34

In: 636.497+/-0.144 $\chi^2$/NDF:5114709.5/21

Out: 637.975+/-0.144 $\chi^2$/NDF:5795489.7/25

All: 637.239+/-0.102 $\chi^2$/NDF: 10910251.9/47




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 183.328+/-37.524 $\chi^2$/NDF:9.3/6

Right Out: 8.986+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 86.357+/-38.367 $\chi^2$/NDF:6.8/5

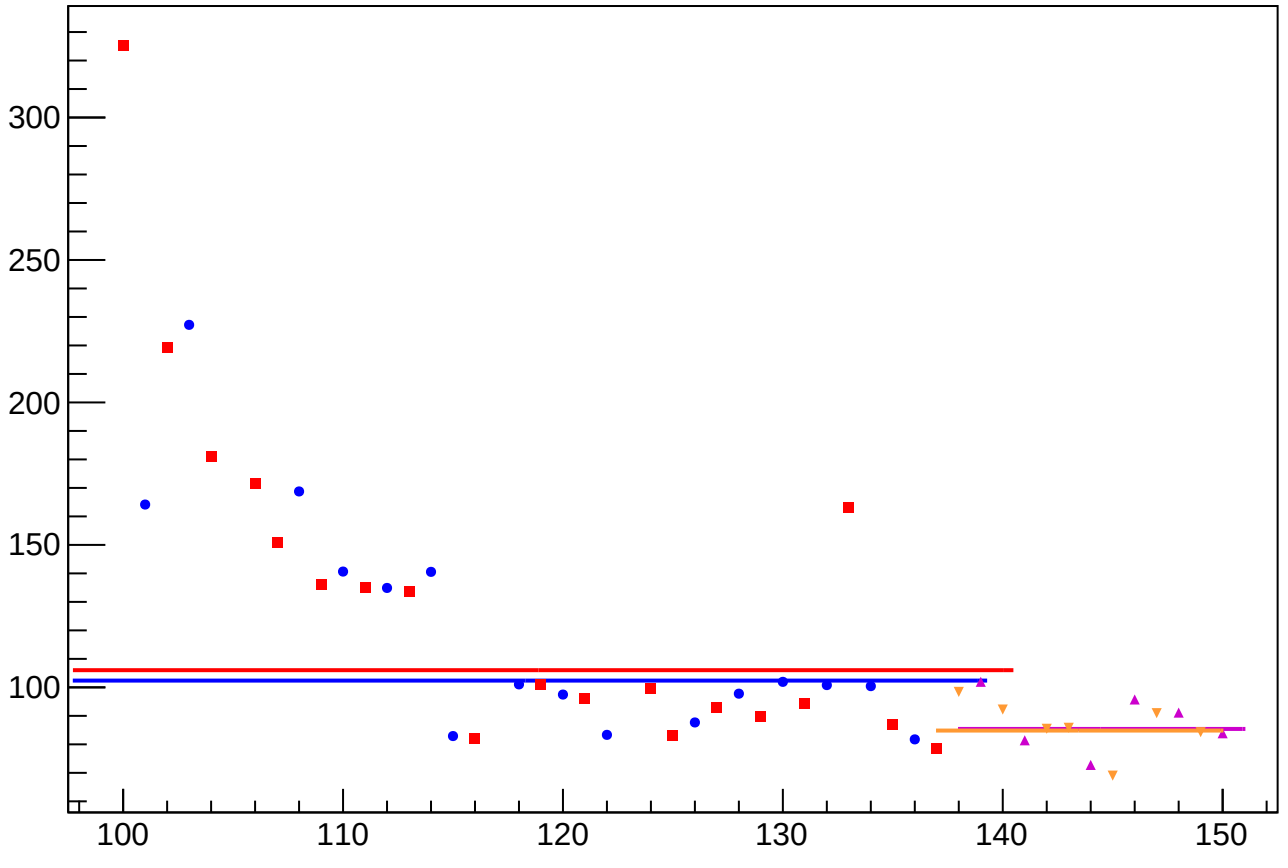
Left: 135.920+/-26.827 $\chi^2$/NDF: 19.4/12

Right: 26.416+/-28.632 $\chi^2$/NDF: 42.0/34

In: 65.512+/-27.672 $\chi^2$/NDF:27.8/21

Out: 103.985+/-27.699 $\chi^2$/NDF:40.5/25

All: 84.730+/-19.577 $\chi^2$/NDF: 69.2/47




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982307.0/15

Left Out: 84.842+/-0.027 $\chi^2$/NDF:124166.0/6

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191296.9/18

Left In: 85.411+/-0.027 $\chi^2$/NDF:124768.3/5

Left: 85.120+/-0.019 $\chi^2$/NDF: 249158.9/12

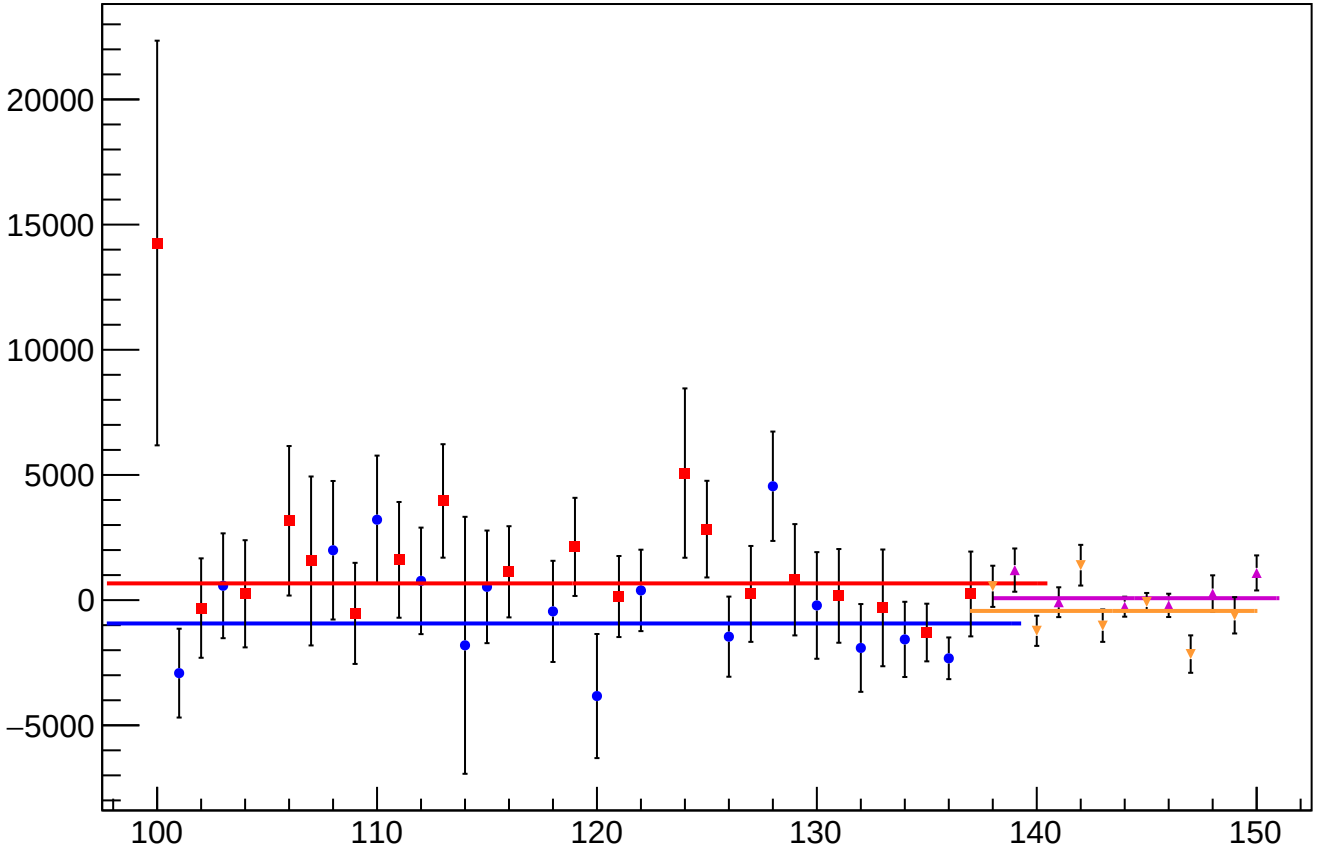
Right: 104.155+/-0.020 $\chi^2$/NDF: 2181741.7/34

In: 93.552+/-0.020 $\chi^2$/NDF:1294763.0/21

Out: 94.485+/-0.020 $\chi^2$/NDF:1605736.2/25

All: 94.018+/-0.014 $\chi^2$/NDF: 2901635.9/47

asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -932.377+/-442.724 $\chi^2$/NDF: 18.5/15

Left Out: -431.670+/-226.082 $\chi^2$/NDF:15.4/6

Right Out: 668.522+/-463.212 $\chi^2$/NDF: 13.5/18

Left In: 77.230+/-229.799 $\chi^2$/NDF:5.0/5

Left: -181.369+/-161.162 $\chi^2$/NDF: 22.9/12

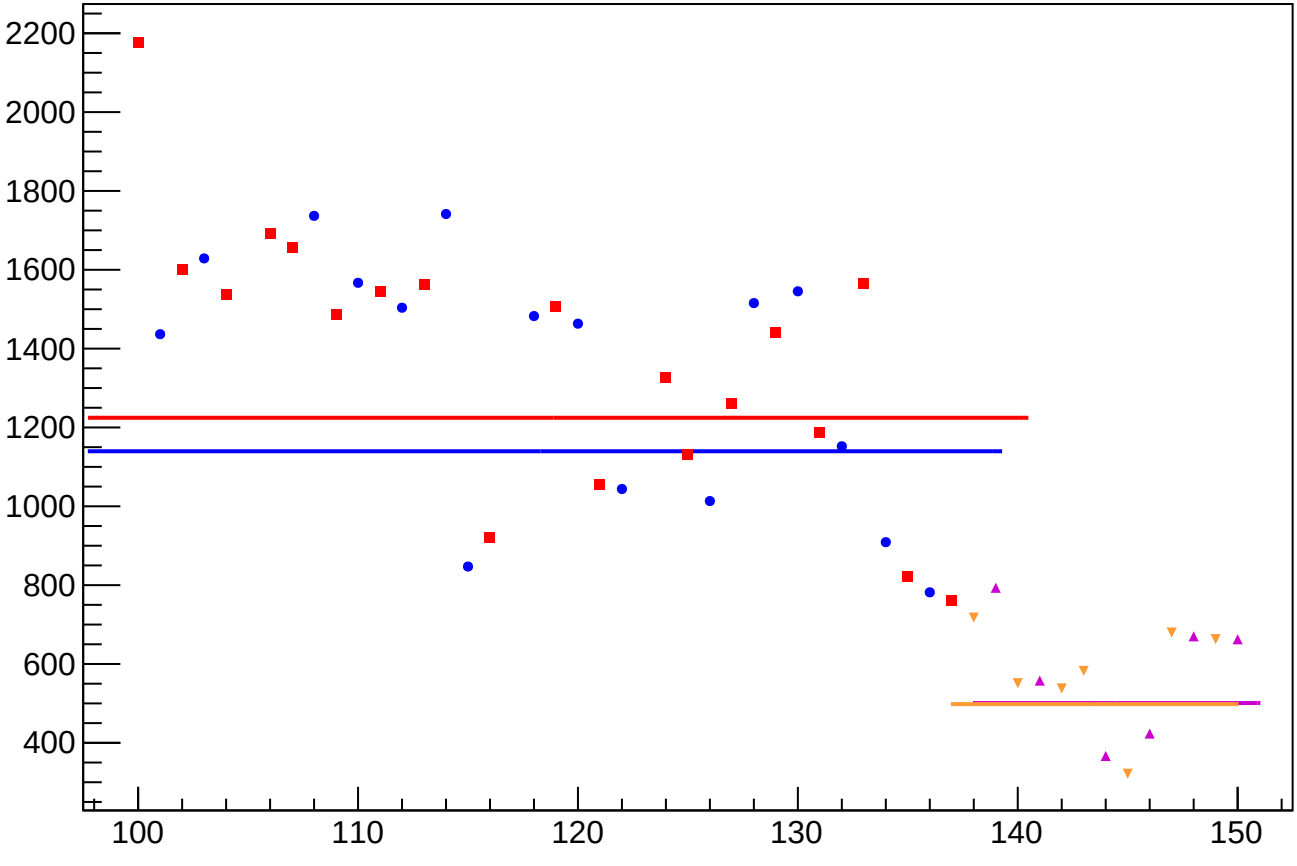
Right: -168.114+/-320.051 $\chi^2$/NDF: 38.2/34

In: -137.048+/-203.960 $\chi^2$/NDF:27.6/21

Out: -220.007+/-203.174 $\chi^2$/NDF:33.4/25

All: -178.687+/-143.943 $\chi^2$/NDF: 61.1/47

asym_sam_3726_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1139.656+/-0.313 $\chi^2$/NDF: 1093397.5/15

Left Out: 498.220+/-0.160 $\chi^2$/NDF:900816.2/6

Right Out: 1224.635+/-0.328 $\chi^2$/NDF: 922378.0/18

Left In: 500.935+/-0.162 $\chi^2$/NDF:742003.8/5

Left: 499.556+/-0.114 $\chi^2$/NDF: 1642961.9/12

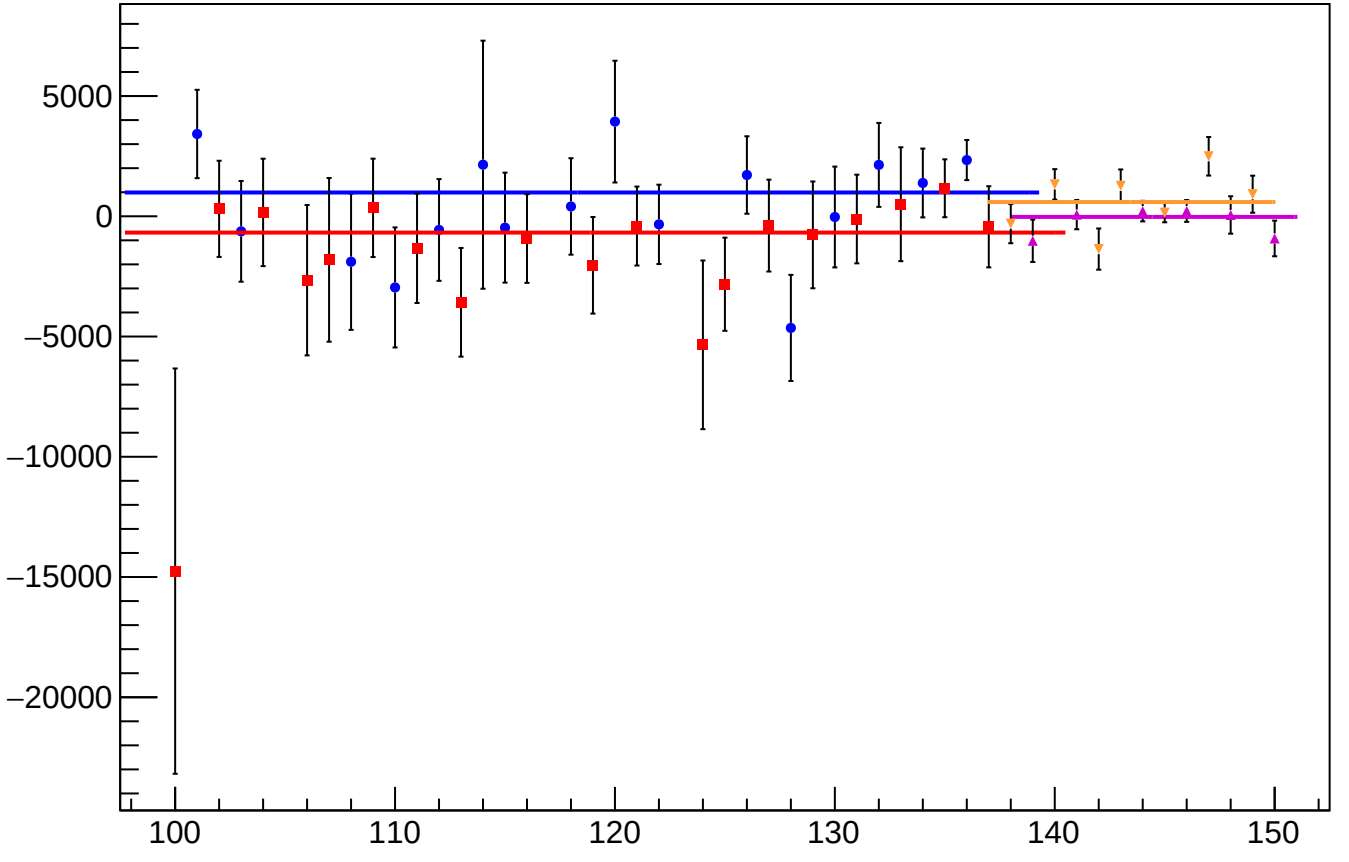
Right: 1180.225+/-0.226 $\chi^2$/NDF: 2050952.9/34

In: 636.497+/-0.144 $\chi^2$/NDF:5114704.9/21

Out: 637.973+/-0.144 $\chi^2$/NDF:5795503.3/25

All: 637.238+/-0.102 $\chi^2$/NDF: 10910260.8/47

# asym_sam_3726_avg_mean vs Slug, Sign Corrected




Right In: 989.322+/-442.634 $\chi^2$/NDF: 19.0/15

Left Out: 591.956+/-242.514 $\chi^2$/NDF:15.8/6

Right Out: -677.628+/-469.652 $\chi^2$/NDF: 11.9/18

Left In: -25.399+/-237.222 $\chi^2$/NDF:3.4/5

Left: 276.469+/-169.581 $\chi^2$/NDF: 22.5/12

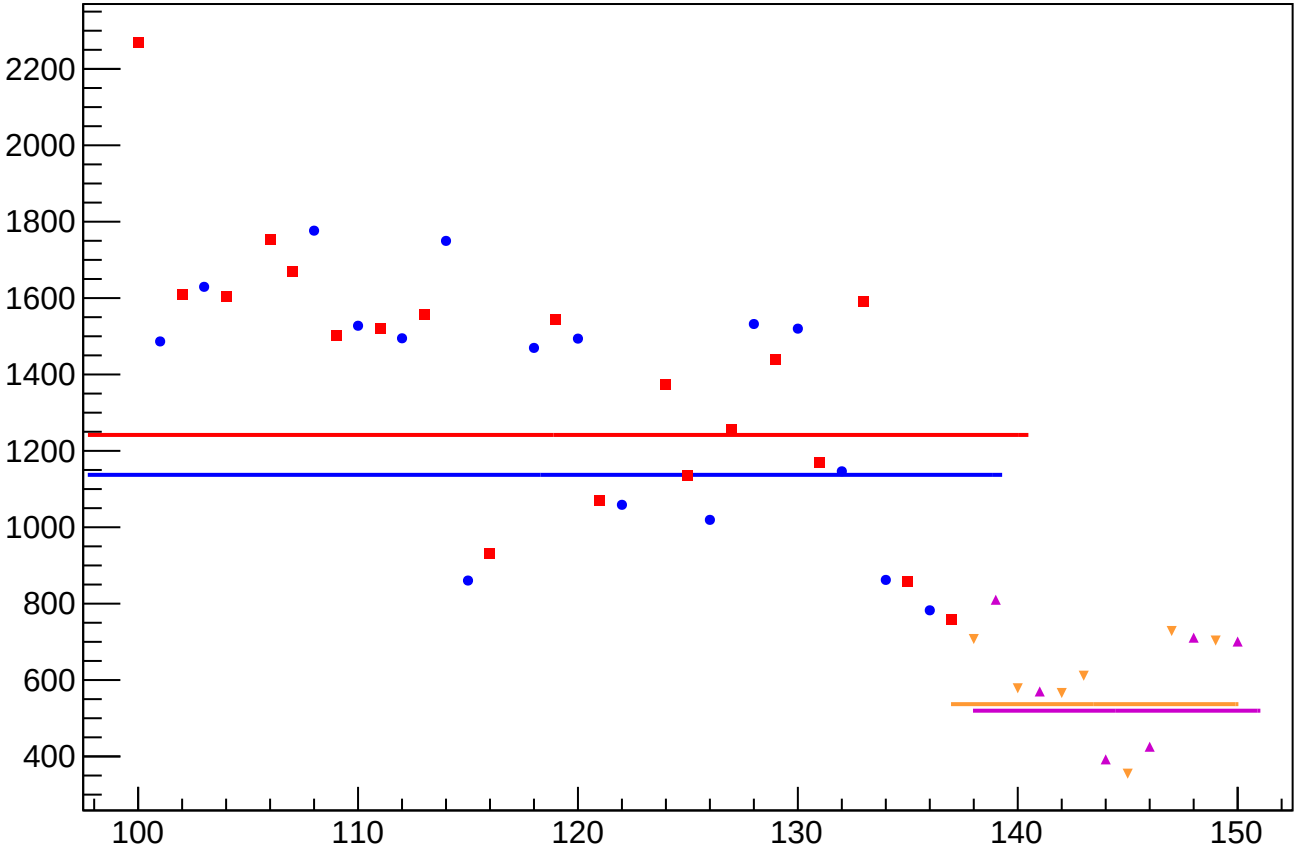
Right: 205.171+/-322.118 $\chi^2$/NDF: 37.6/34

In: 201.019+/-209.087 $\chi^2$/NDF:26.5/21

Out: 324.699+/-215.482 $\chi^2$/NDF:33.5/25

All: 260.996+/-150.057 $\chi^2$/NDF: 60.1/47

# asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 1137.220+/-0.313 $\chi^2$/NDF: 1123685.6/15

Left Out: 536.885+/-0.171 $\chi^2$/NDF:744233.5/6

Right Out: 1241.709+/-0.332 $\chi^2$/NDF: 899417.9/18

Left In: 519.745+/-0.168 $\chi^2$/NDF:734814.2/5

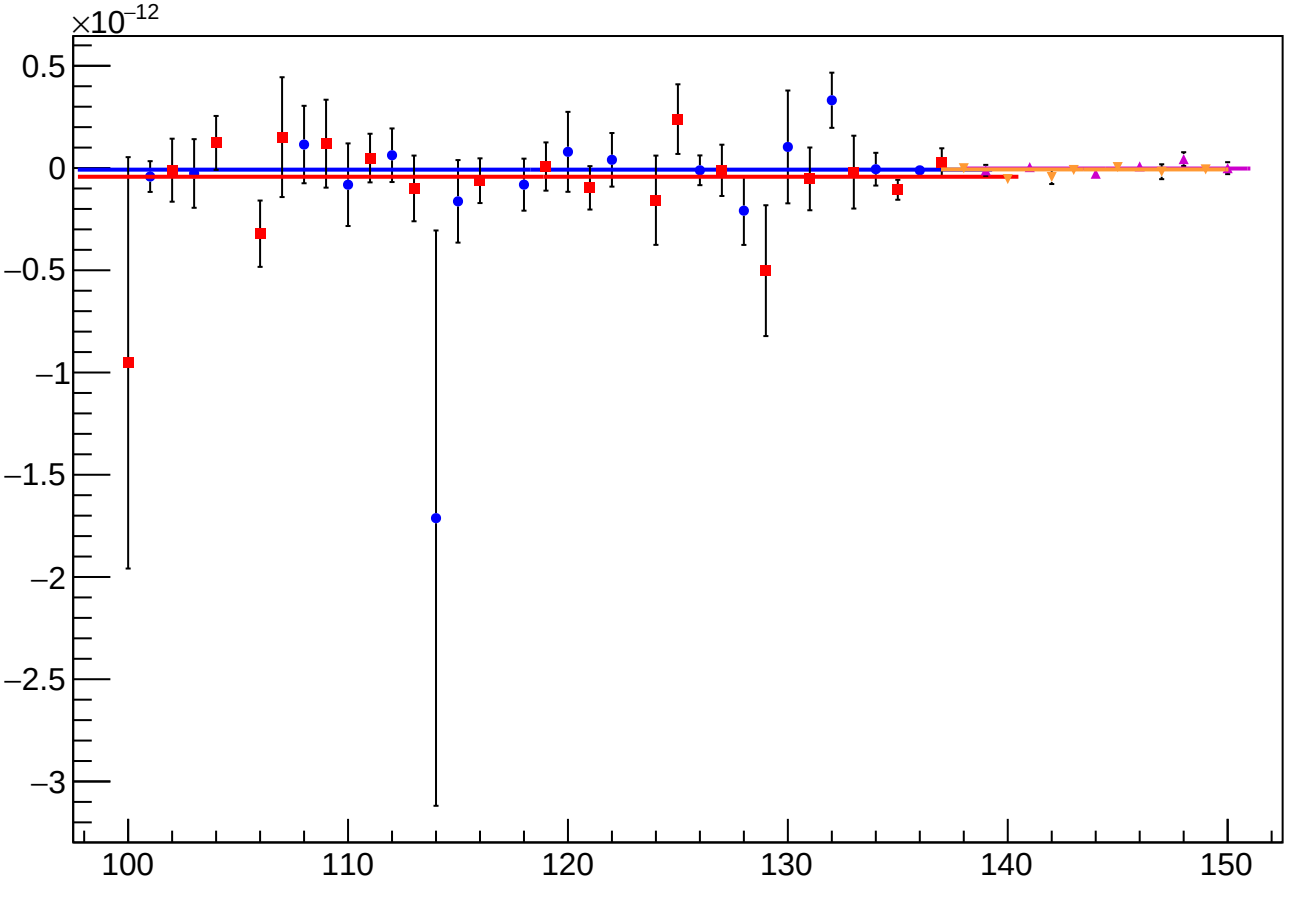
Left: 528.126+/-0.120 $\chi^2$/NDF: 1484153.4/12

Right: 1186.373+/-0.228 $\chi^2$/NDF: 2075531.5/34

In: 657.524+/-0.148 $\chi^2$/NDF:4882106.7/21

Out: 685.256+/-0.152 $\chi^2$/NDF:5199859.2/25

All: 670.972+/-0.106 $\chi^2$/NDF: 10099028.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.9/5

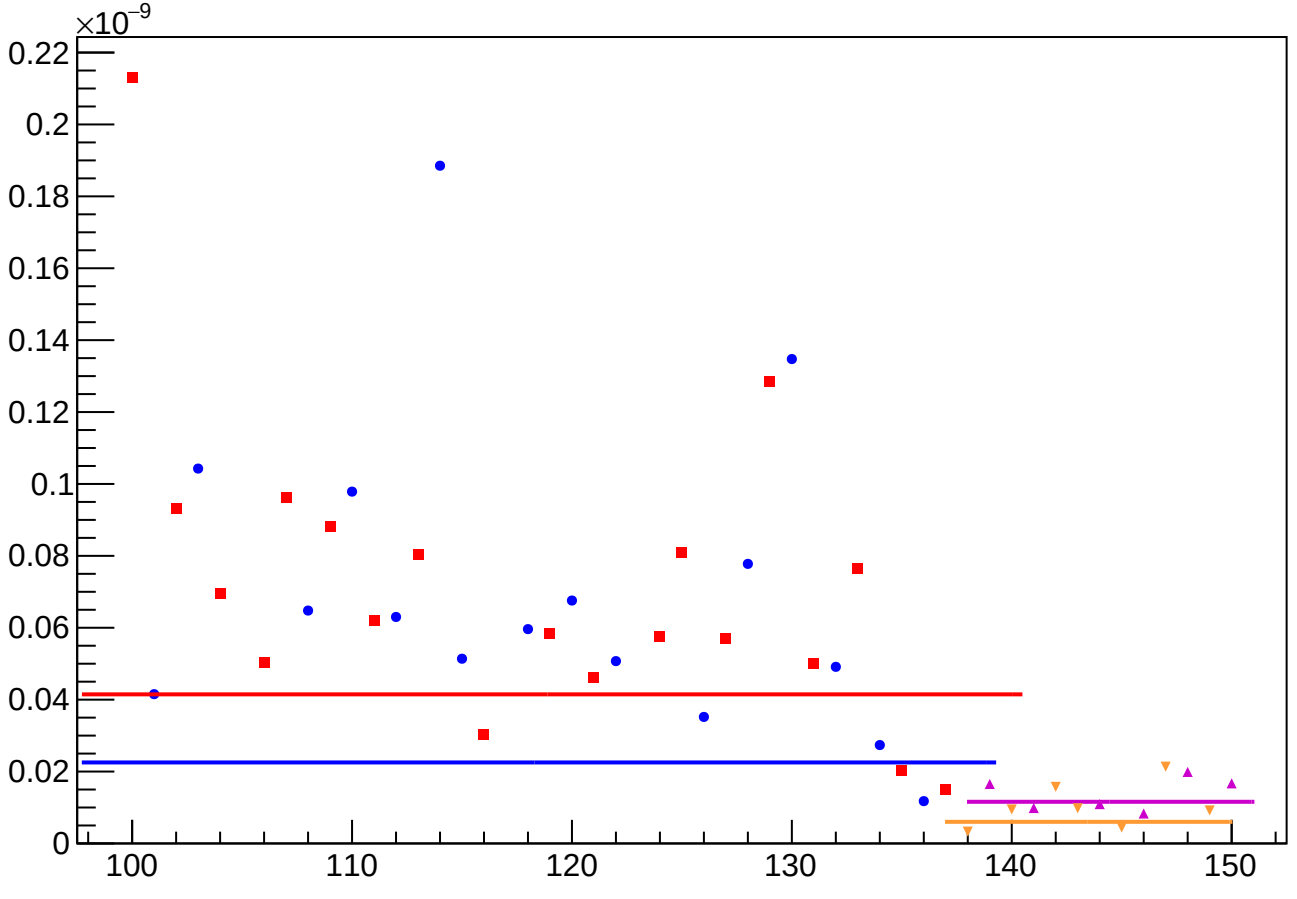
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.2/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:27.3/25

All: -0.000+/-0.000 $\chi^2$/NDF: 44.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2852766.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:919078.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1847735.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:357559.1/5

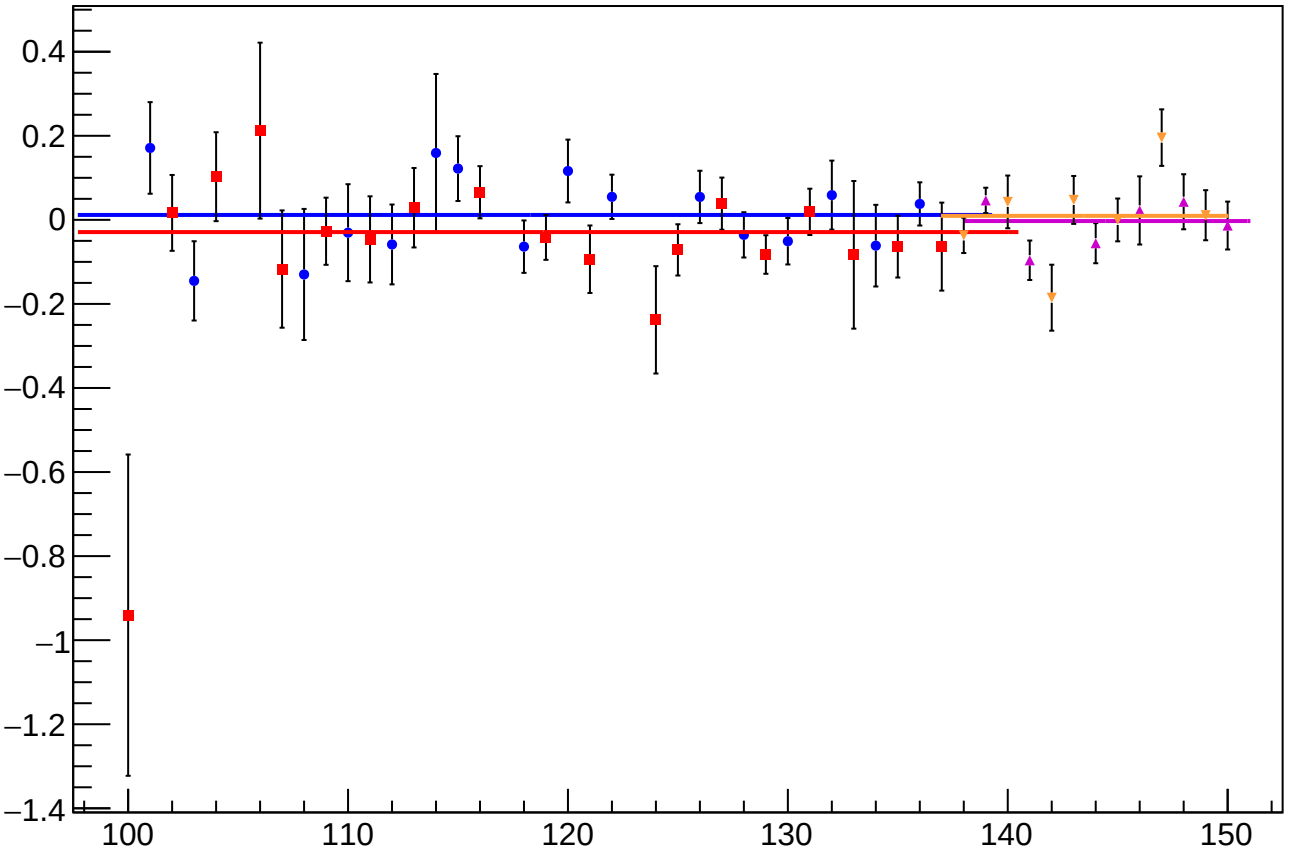
Left: 0.000+/-0.000 $\chi^2$/NDF: 1871079.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5394567.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3850894.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6056508.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 10783143.1/47




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:15.8/6

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.003+/-0.019 $\chi^2$/NDF:8.5/5

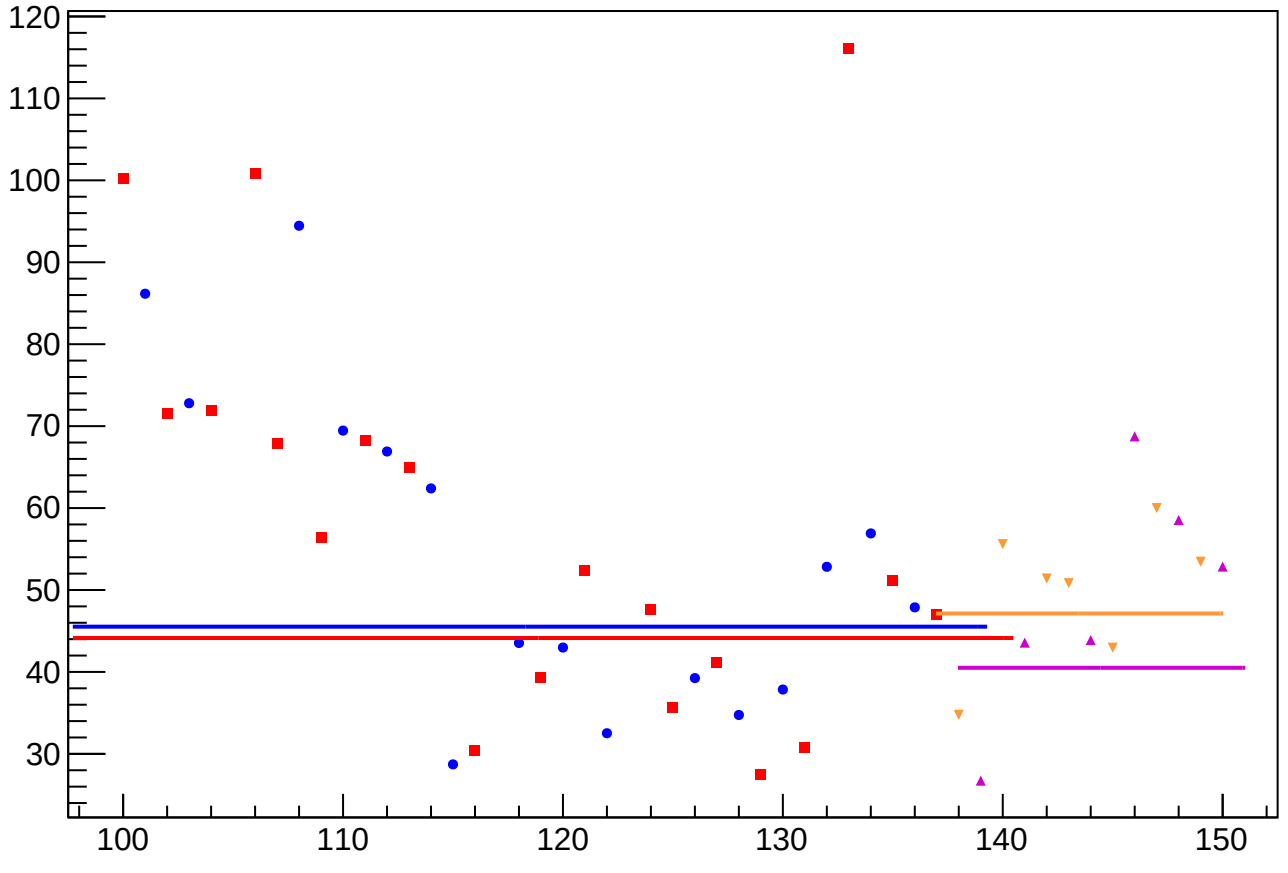
Left: 0.003+/-0.014 $\chi^2$/NDF: 24.4/12

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.005+/-0.013 $\chi^2$/NDF:25.6/21

Out: -0.013+/-0.014 $\chi^2$/NDF:37.3/25

All: -0.004+/-0.010 $\chi^2$/NDF: 63.8/47




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253967.4/15

Left Out: 47.131+/-0.015 $\chi^2$/NDF:333135.0/6

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743430.9/18

Left In: 40.507+/-0.014 $\chi^2$/NDF:925465.1/5

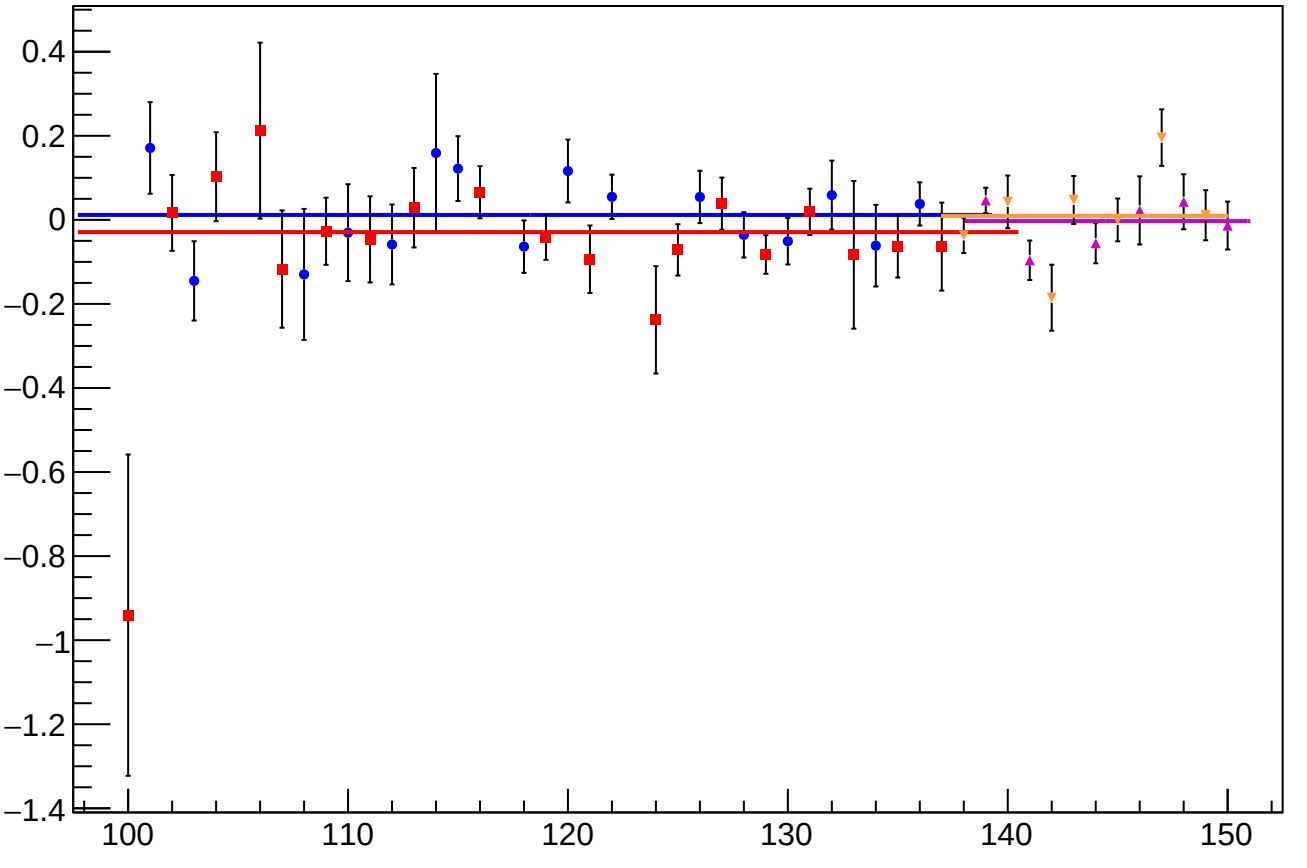
Left: 43.472+/-0.010 $\chi^2$/NDF: 1364258.0/12

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003242.5/34

In: 43.144+/-0.009 $\chi^2$/NDF:2250630.3/21

Out: 45.369+/-0.010 $\chi^2$/NDF:2099532.6/25

All: 44.220+/-0.007 $\chi^2$/NDF: 4377294.3/47




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:15.8/6

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.003+/-0.019 $\chi^2$/NDF:8.5/5

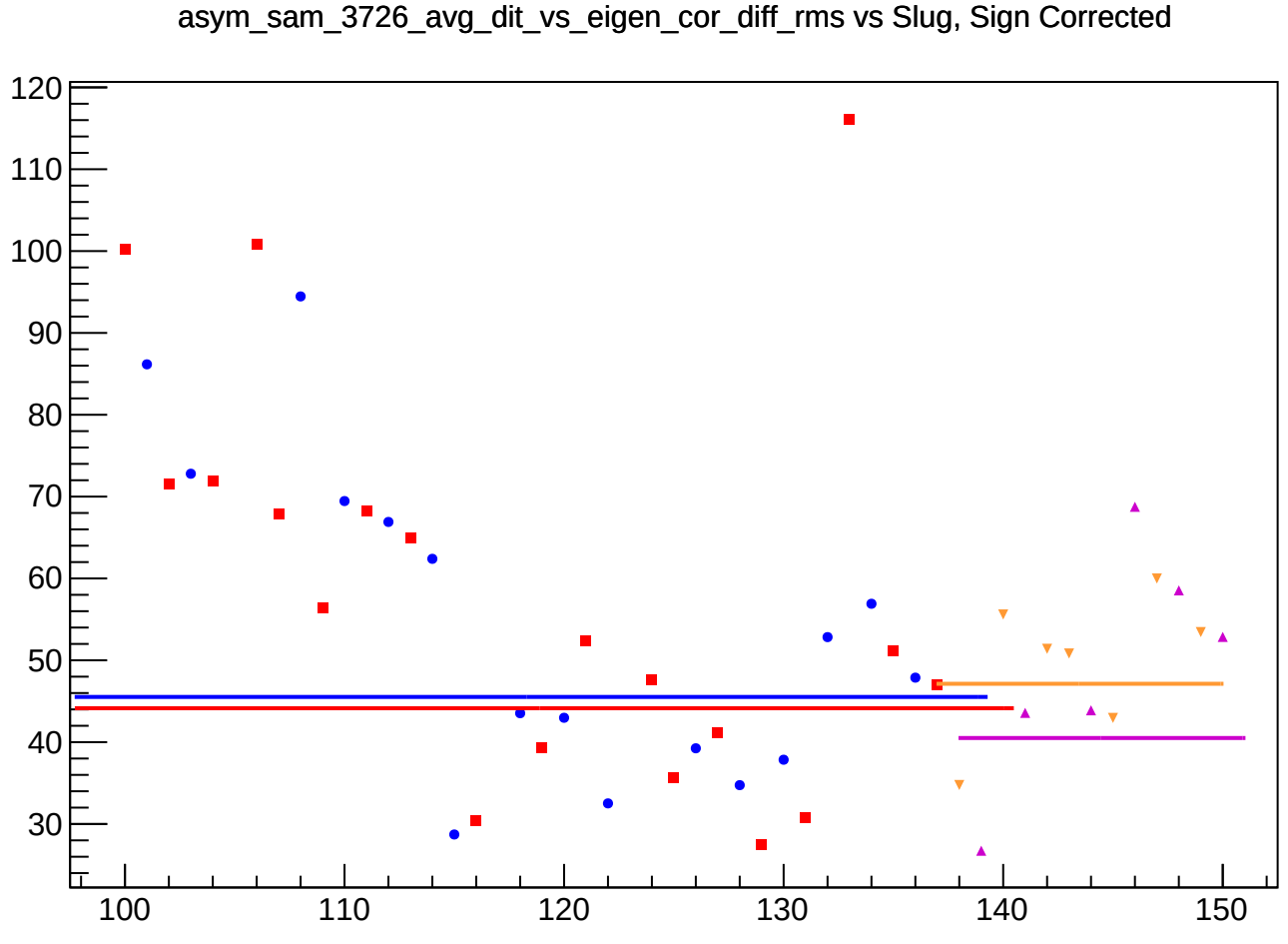
Left: 0.003+/-0.014 $\chi^2$/NDF: 24.4/12

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.005+/-0.013 $\chi^2$/NDF:25.6/21

Out: -0.013+/-0.014 $\chi^2$/NDF:37.3/25

All: -0.004+/-0.010 $\chi^2$/NDF: 63.8/47




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253967.4/15

Left Out: 47.131+/-0.015 $\chi^2$/NDF:333135.0/6

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743430.9/18

Left In: 40.507+/-0.014 $\chi^2$/NDF:925465.1/5

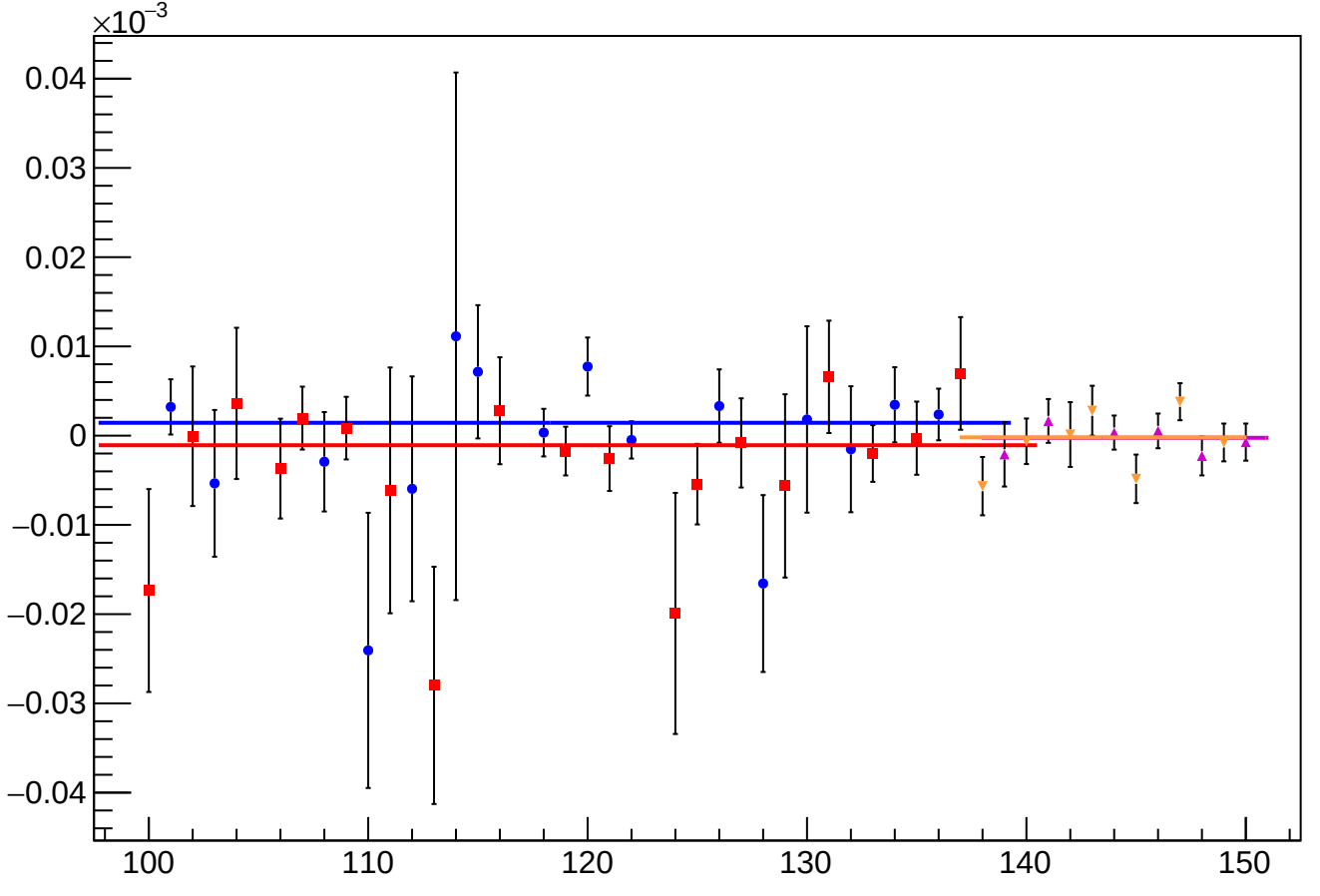
Left: 43.472+/-0.010 $\chi^2$/NDF: 1364258.0/12

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003242.5/34

In: 43.144+/-0.009 $\chi^2$/NDF:2250630.3/21

Out: 45.369+/-0.010 $\chi^2$/NDF:2099532.6/25

All: 44.220+/-0.007 $\chi^2$/NDF: 4377294.3/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.7/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 12.7/12

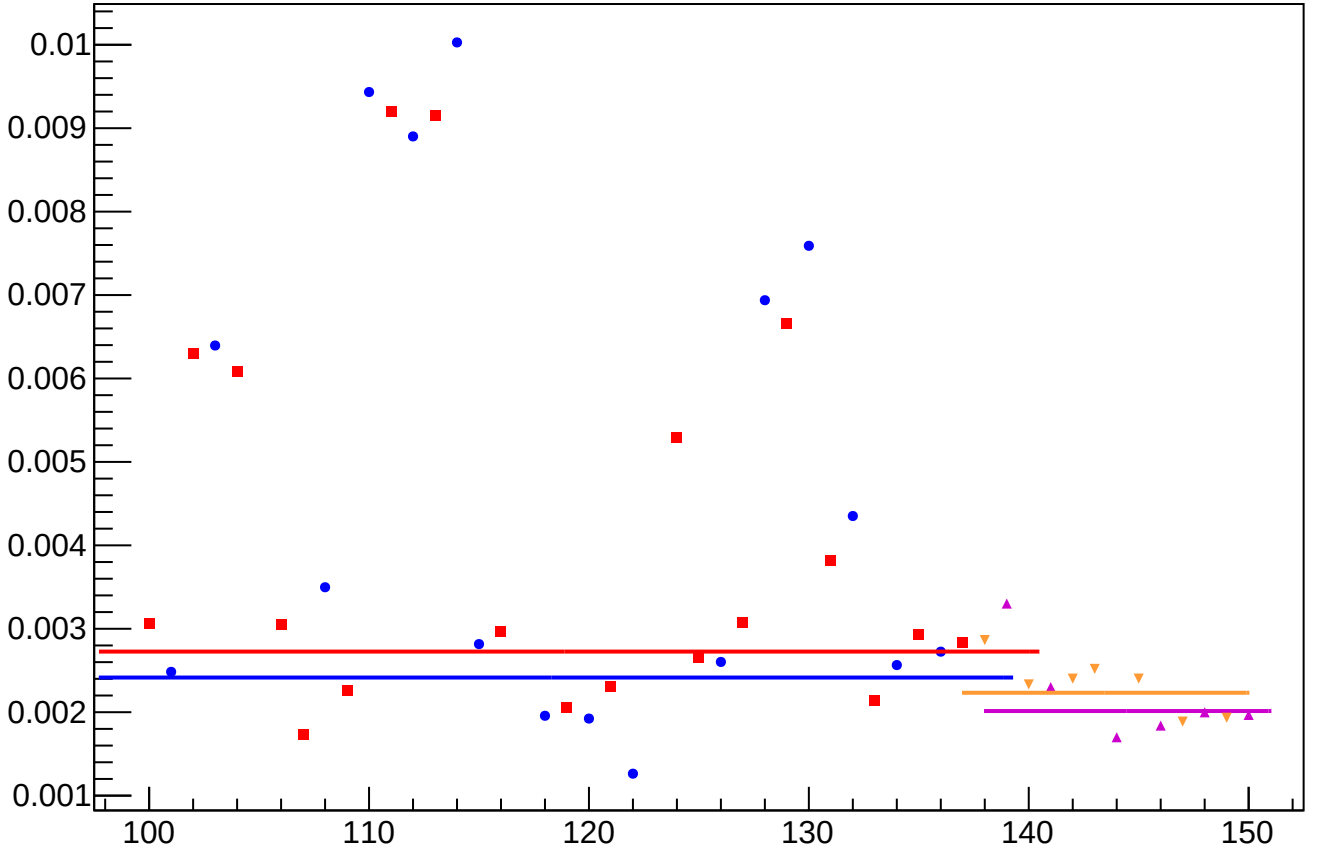
Right: 0.000+/-0.000 $\chi^2$/NDF: 31.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:25.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 44.7/47

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3432108.8/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:206560.5/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2505080.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:353566.2/5

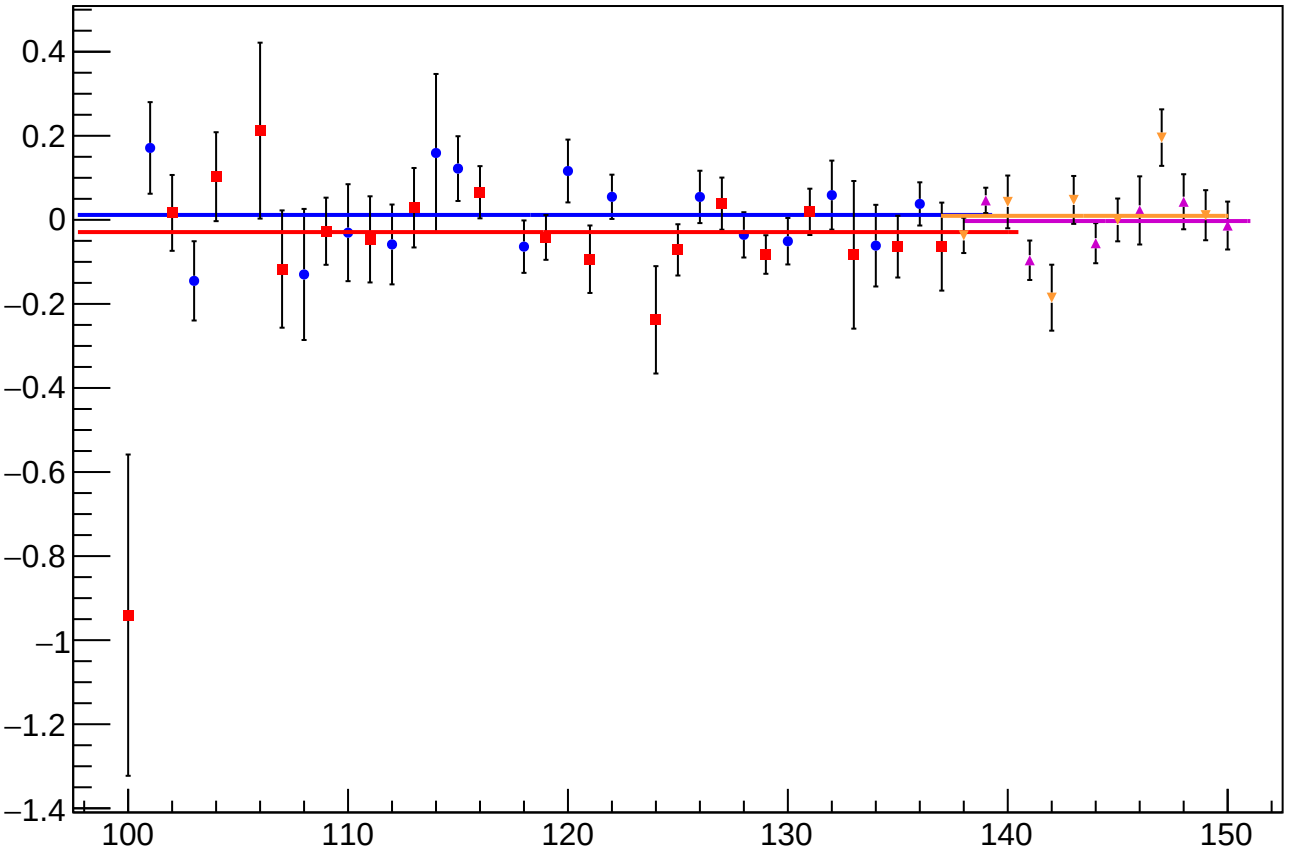
Left: 0.002+/-0.000 $\chi^2$/NDF: 614070.1/12

Right: 0.003+/-0.000 $\chi^2$/NDF: 6019731.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:3955028.5/21

Out: 0.002+/-0.000 $\chi^2$/NDF:2931275.3/25

All: 0.002+/-0.000 $\chi^2$/NDF: 7020015.1/47




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:15.8/6

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.003+/-0.019 $\chi^2$/NDF:8.5/5

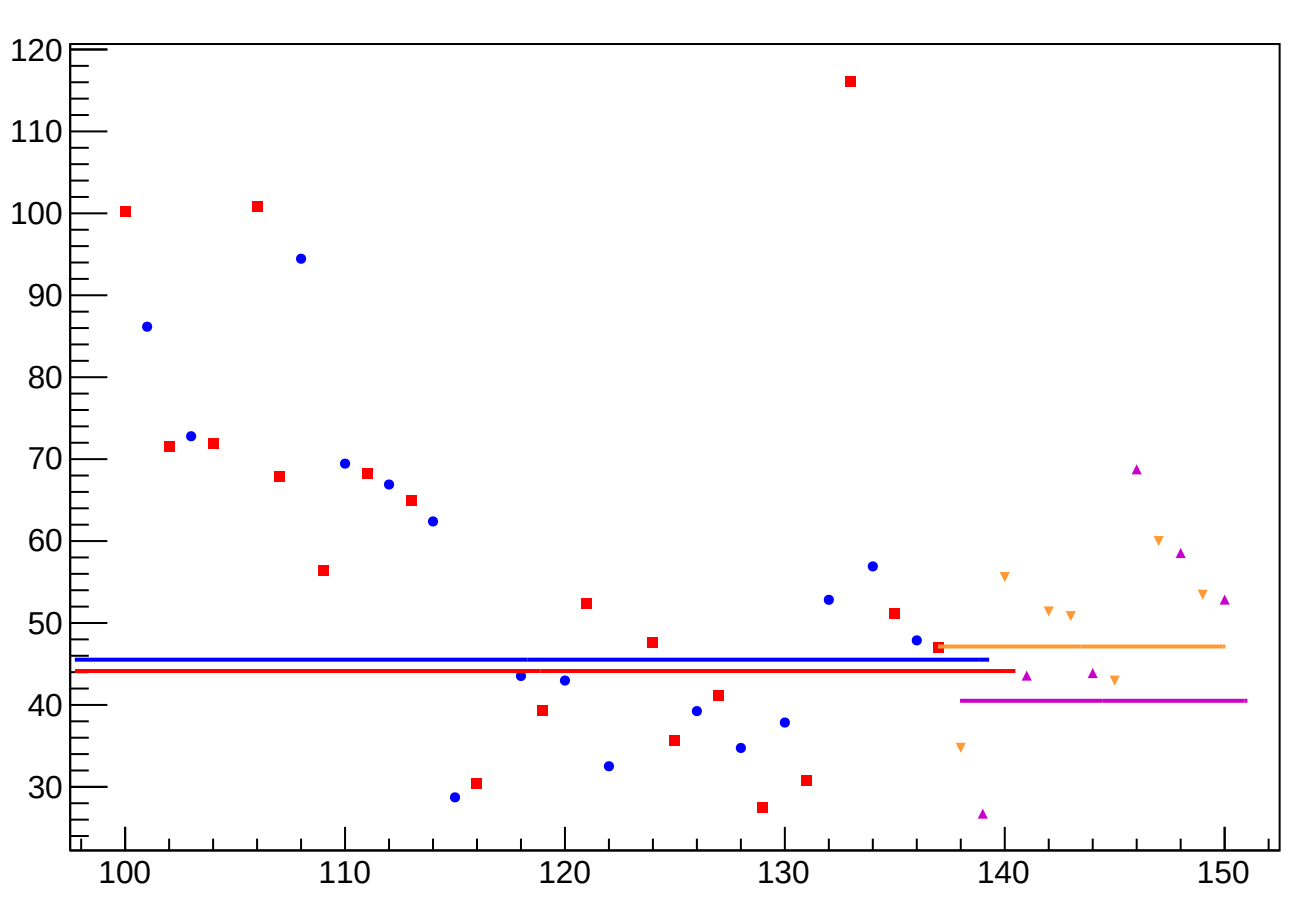
Left: 0.003+/-0.014 $\chi^2$/NDF: 24.4/12

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.005+/-0.013 $\chi^2$/NDF:25.6/21

Out: -0.013+/-0.014 $\chi^2$/NDF:37.3/25

All: -0.004+/-0.010 $\chi^2$/NDF: 63.8/47




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253922.0/15

Left Out: 47.132+/-0.015 $\chi^2$/NDF:333150.7/6

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743351.0/18

Left In: 40.507+/-0.014 $\chi^2$/NDF:925488.0/5

Left: 43.472+/-0.010 $\chi^2$/NDF: 1364297.7/12

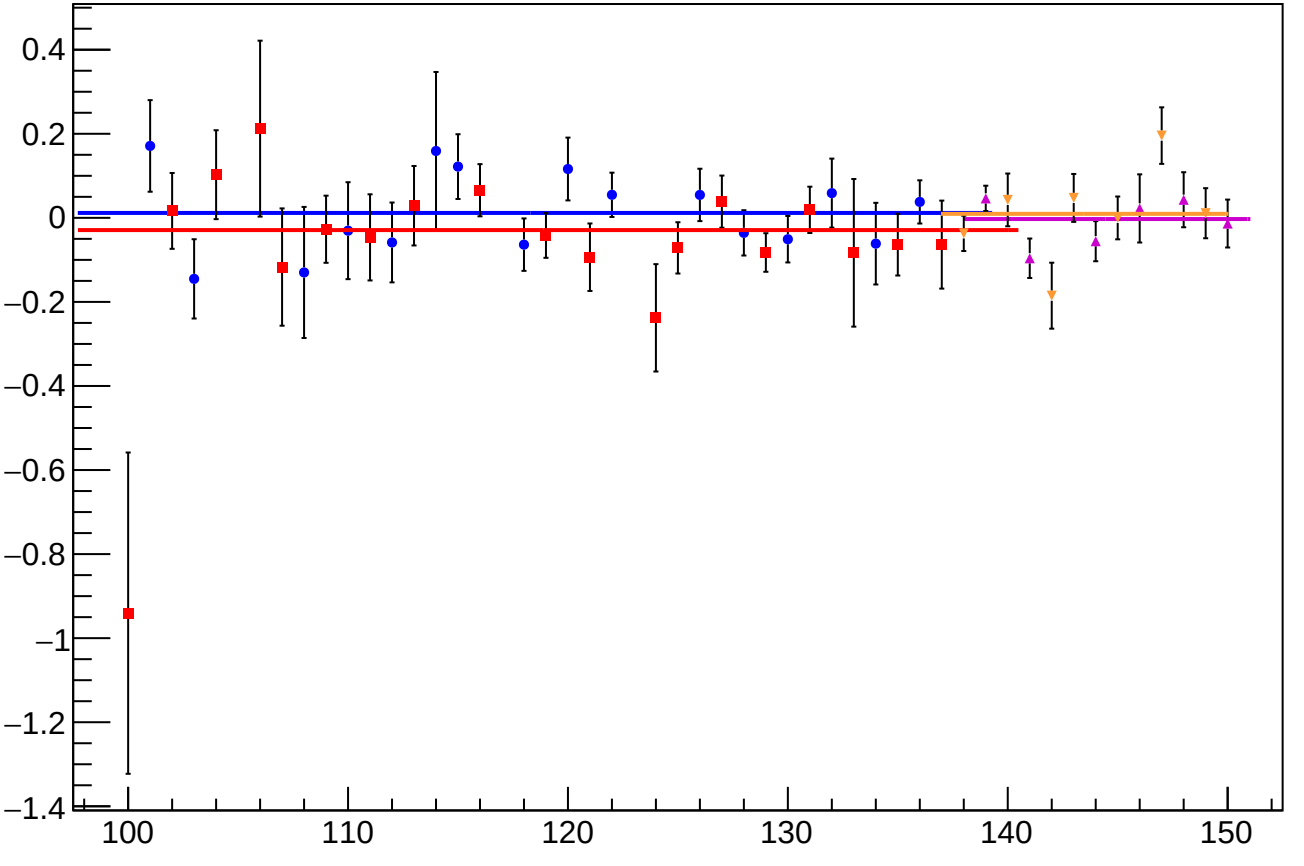
Right: 44.816+/-0.009 $\chi^2$/NDF: 3003114.2/34

In: 43.144+/-0.009 $\chi^2$/NDF:2250599.4/21

Out: 45.369+/-0.010 $\chi^2$/NDF:2099468.2/25

All: 44.220+/-0.007 $\chi^2$/NDF: 4377203.7/47

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.010+/-0.021 $\chi^2$/NDF:15.8/6

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.003+/-0.019 $\chi^2$/NDF:8.5/5

Left: 0.003+/-0.014 $\chi^2$/NDF: 24.4/12

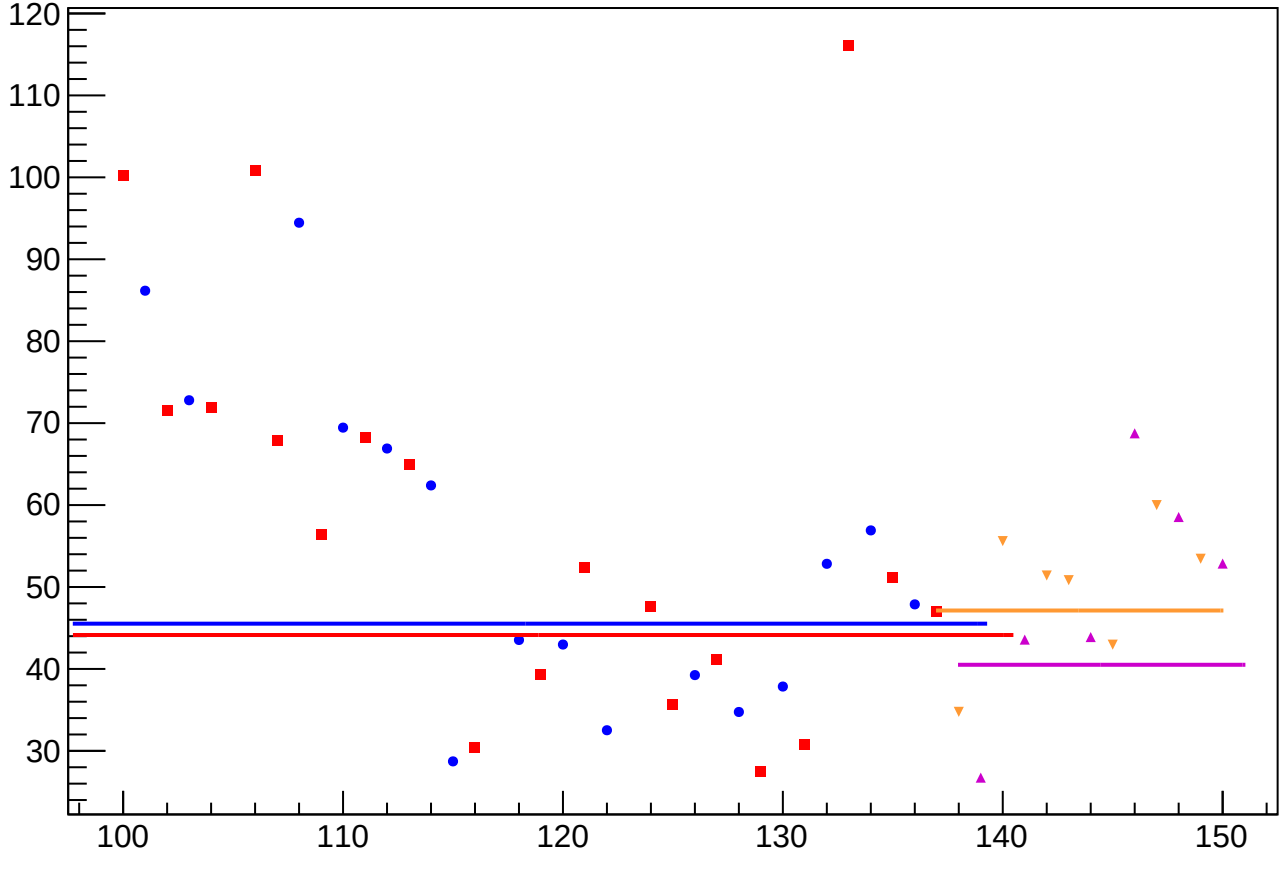
Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.005+/-0.013 $\chi^2$/NDF:25.6/21

Out: -0.013+/-0.014 $\chi^2$/NDF:37.3/25

All: -0.004+/-0.010 $\chi^2$/NDF: 63.8/47

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253922.0/15

Left Out: 47.132+/-0.015 $\chi^2$/NDF:333150.7/6

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743351.0/18

Left In: 40.507+/-0.014 $\chi^2$/NDF:925488.0/5

Left: 43.472+/-0.010 $\chi^2$/NDF: 1364297.7/12

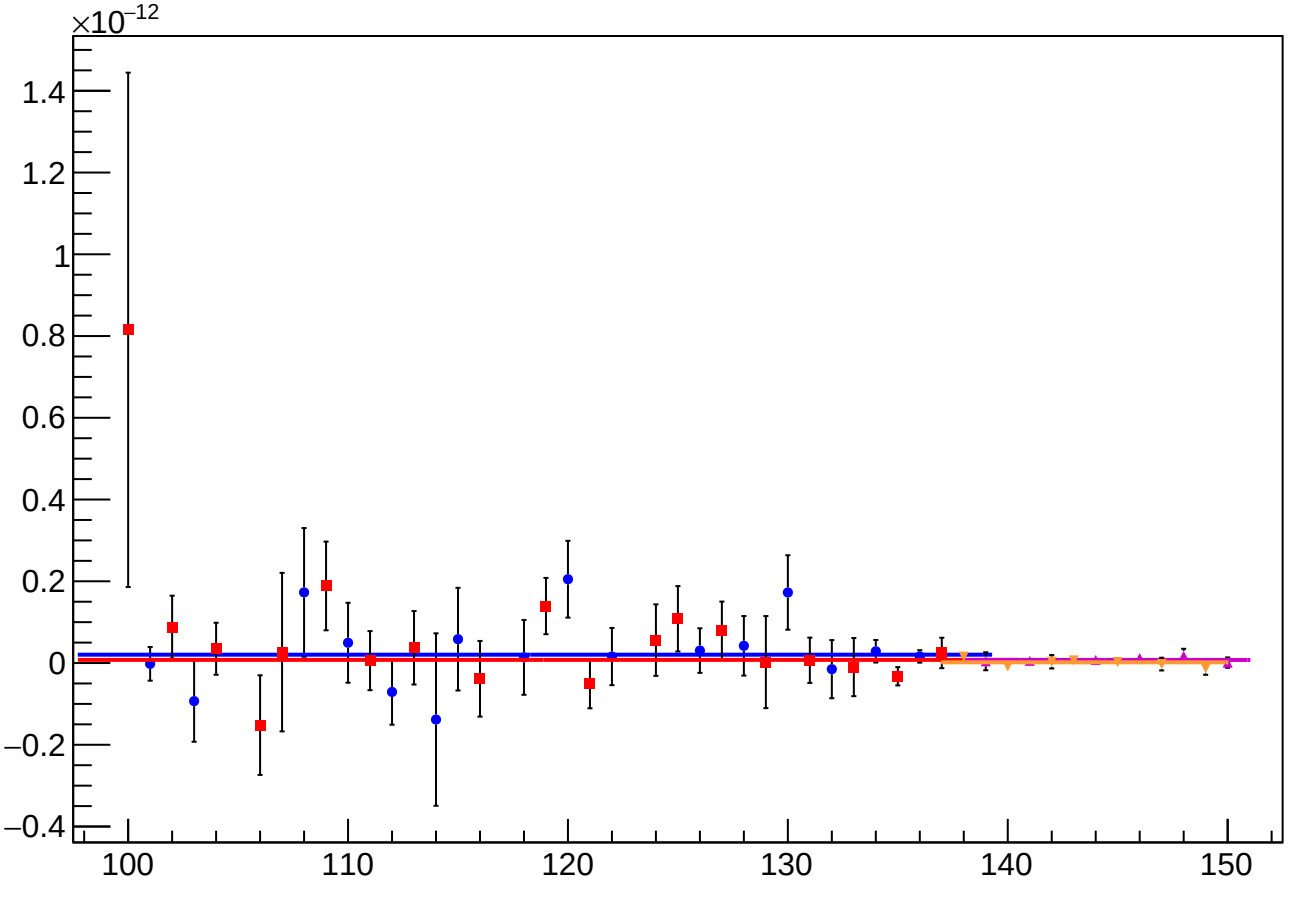
Right: 44.816+/-0.009 $\chi^2$/NDF: 3003114.2/34

In: 43.144+/-0.009 $\chi^2$/NDF:2250599.4/21

Out: 45.369+/-0.010 $\chi^2$/NDF:2099468.2/25

All: 44.220+/-0.007 $\chi^2$/NDF: 4377203.7/47

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/5

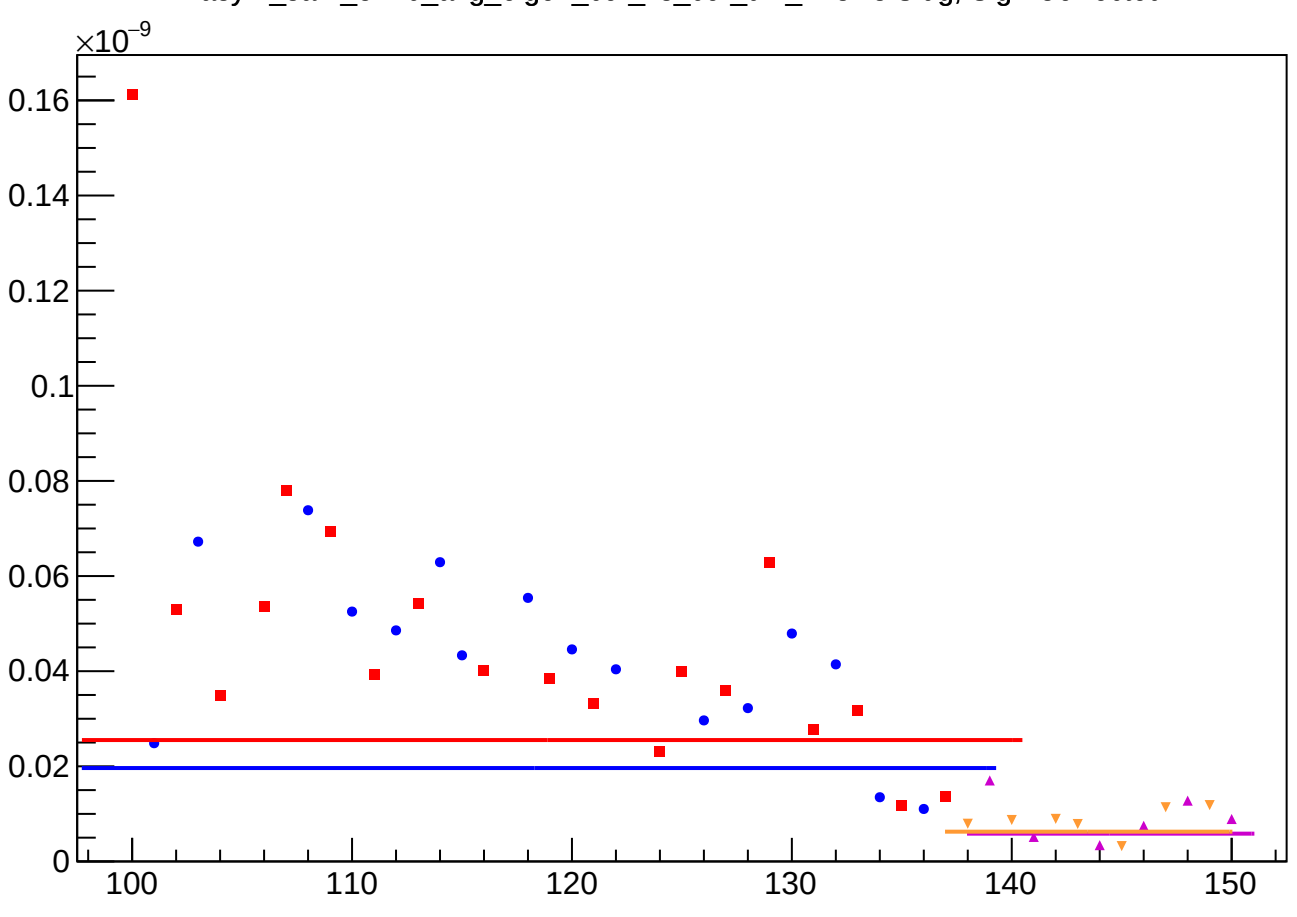
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:13.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 37.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3241093.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1283131.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2703953.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1376568.6/5

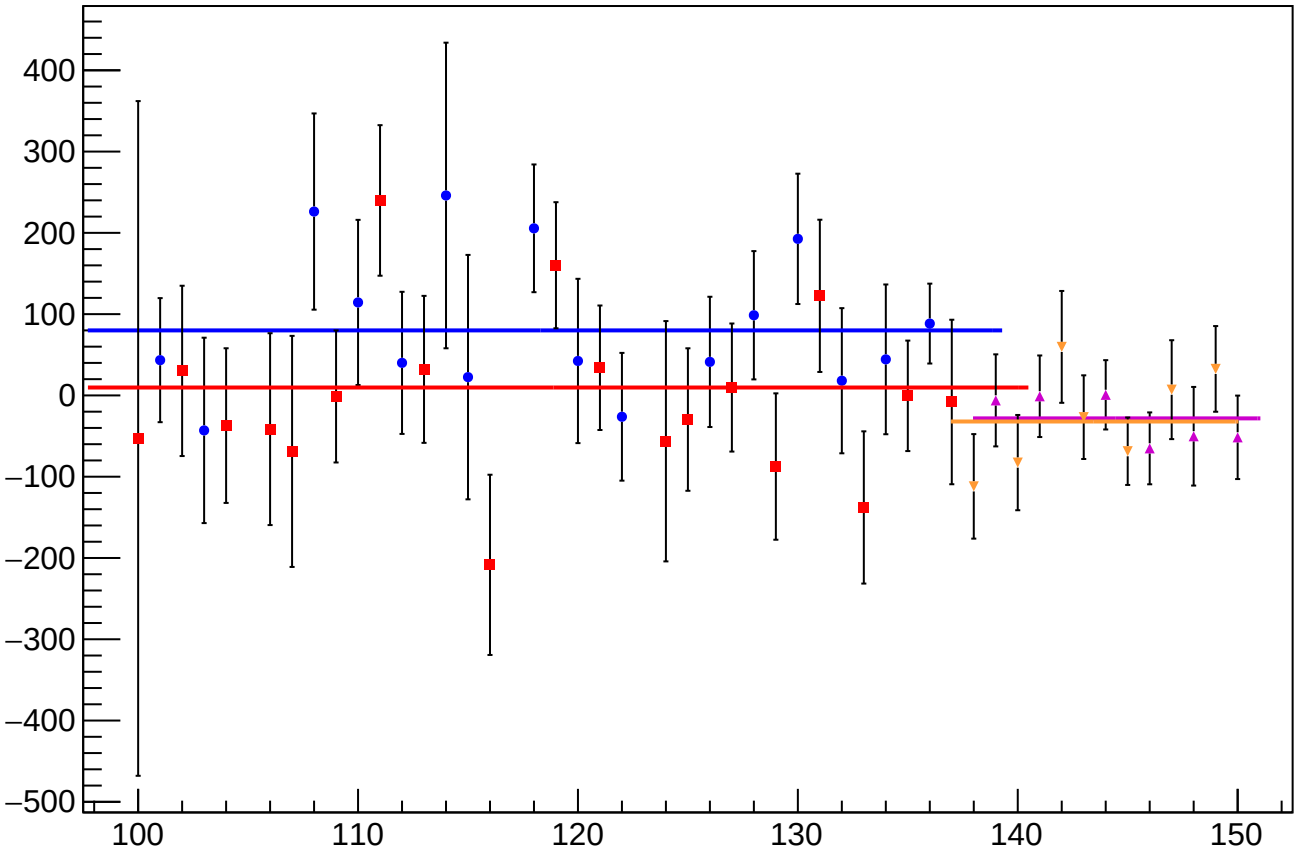
Left: 0.000+/-0.000 $\chi^2$/NDF: 2671329.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 6166556.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:7336009.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:7649456.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 14994645.4/47




Right In: 79.993+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -32.084+/-20.704 $\chi^2$/NDF:6.8/6

Right Out: 9.730+/-21.617 $\chi^2$/NDF: 20.3/18

Left In: -28.248+/-20.322 $\chi^2$/NDF:1.9/5

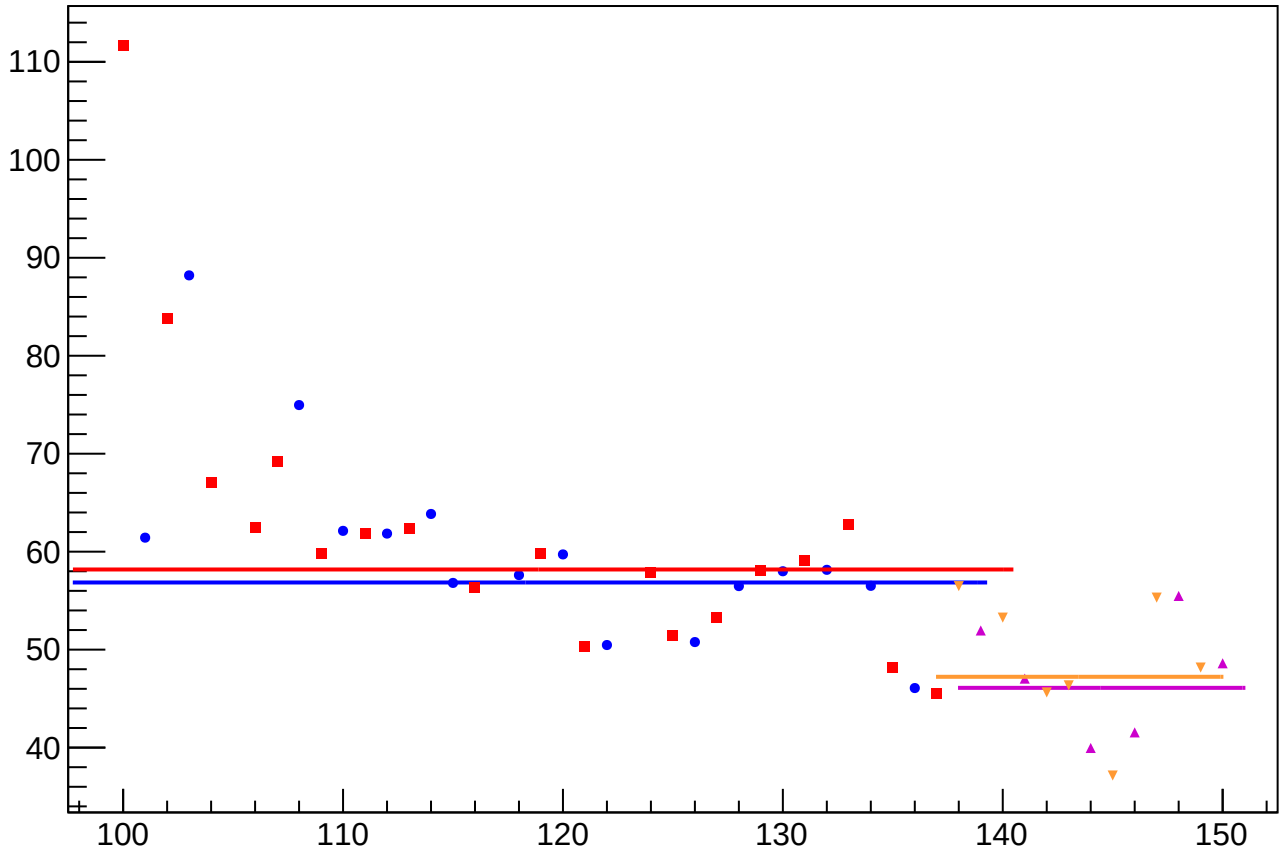
Left: -30.130+/-14.503 $\chi^2$/NDF: 8.7/12

Right: 45.094+/-15.235 $\chi^2$/NDF: 37.2/34

In: 22.889+/-14.760 $\chi^2$/NDF:26.9/21

Out: -12.079+/-14.953 $\chi^2$/NDF:29.1/25

All: 5.631+/-10.504 $\chi^2$/NDF: 58.7/47




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341601.2/15

Left Out: 47.228+/-0.015 $\chi^2$/NDF:218225.8/6

Right Out: 58.181+/-0.015 $\chi^2$/NDF: 314660.6/18

Left In: 46.099+/-0.014 $\chi^2$/NDF:137229.2/5

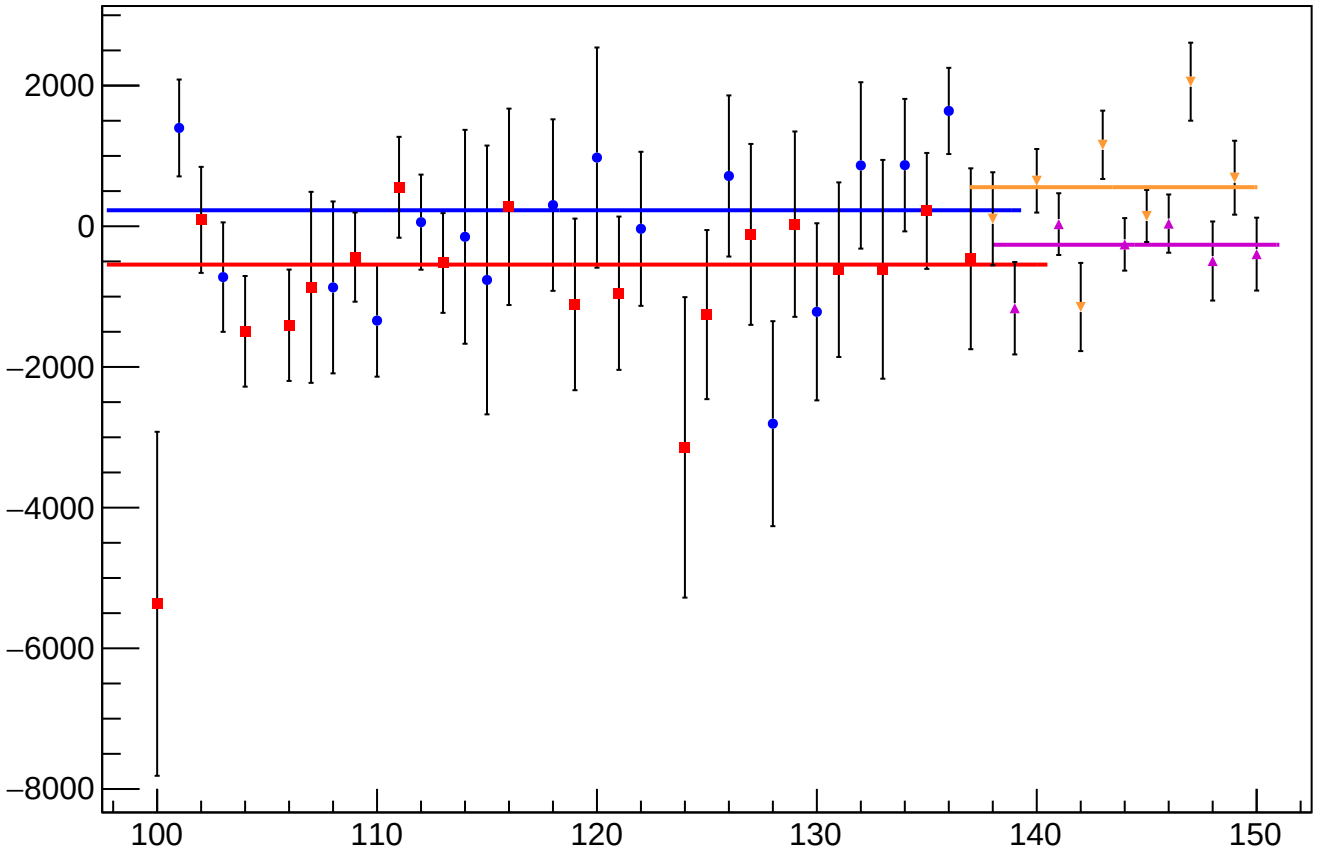
Left: 46.653+/-0.010 $\chi^2$/NDF: 358480.6/12

Right: 57.513+/-0.011 $\chi^2$/NDF: 660056.1/34

In: 51.180+/-0.010 $\chi^2$/NDF:743484.2/21

Out: 52.468+/-0.011 $\chi^2$/NDF:800715.5/25

All: 51.816+/-0.007 $\chi^2$/NDF: 1551716.1/47




Right In: 227.508+/-241.225 $\chi^2$/NDF: 21.6/15

Left Out: 555.805+/-188.487 $\chi^2$/NDF:18.0/6

Right Out: -544.769+/-227.243 $\chi^2$/NDF: 13.4/18

Left In: -262.890+/-191.034 $\chi^2$/NDF:3.1/5

Left: 151.952+/-134.172 $\chi^2$/NDF: 30.4/12

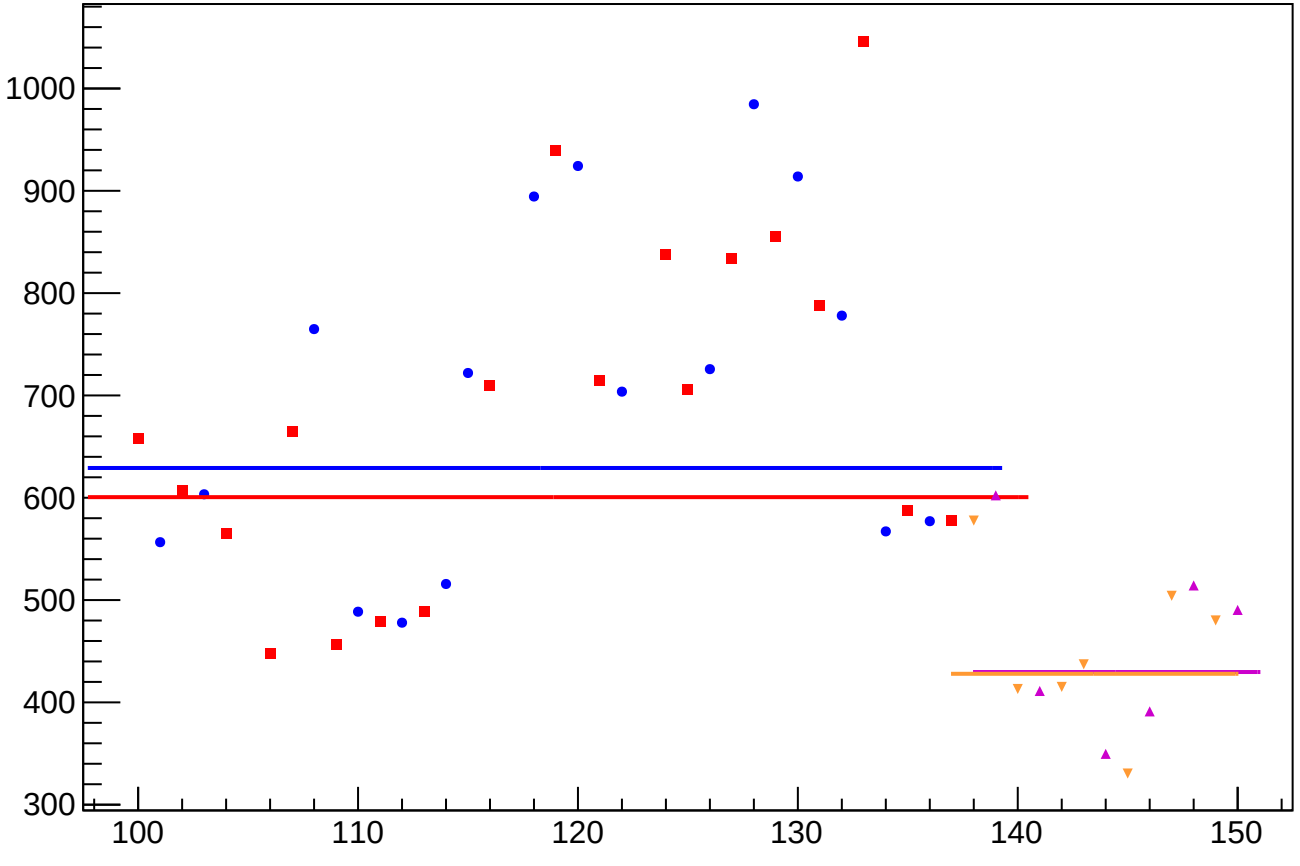
Right: -181.660+/-165.407 $\chi^2$/NDF: 40.4/34

In: -73.875+/-149.760 $\chi^2$/NDF:27.3/21

Out: 107.233+/-145.076 $\chi^2$/NDF:45.3/25

All: 19.555+/-104.201 $\chi^2$/NDF: 73.3/47

asym_sam_15_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 629.096+/-0.171 $\chi^2$/NDF: 692724.2/15

Left Out: 427.935+/-0.133 $\chi^2$/NDF:302779.3/6

Right Out: 600.593+/-0.161 $\chi^2$/NDF: 874614.2/18

Left In: 429.672+/-0.135 $\chi^2$/NDF:323510.9/5

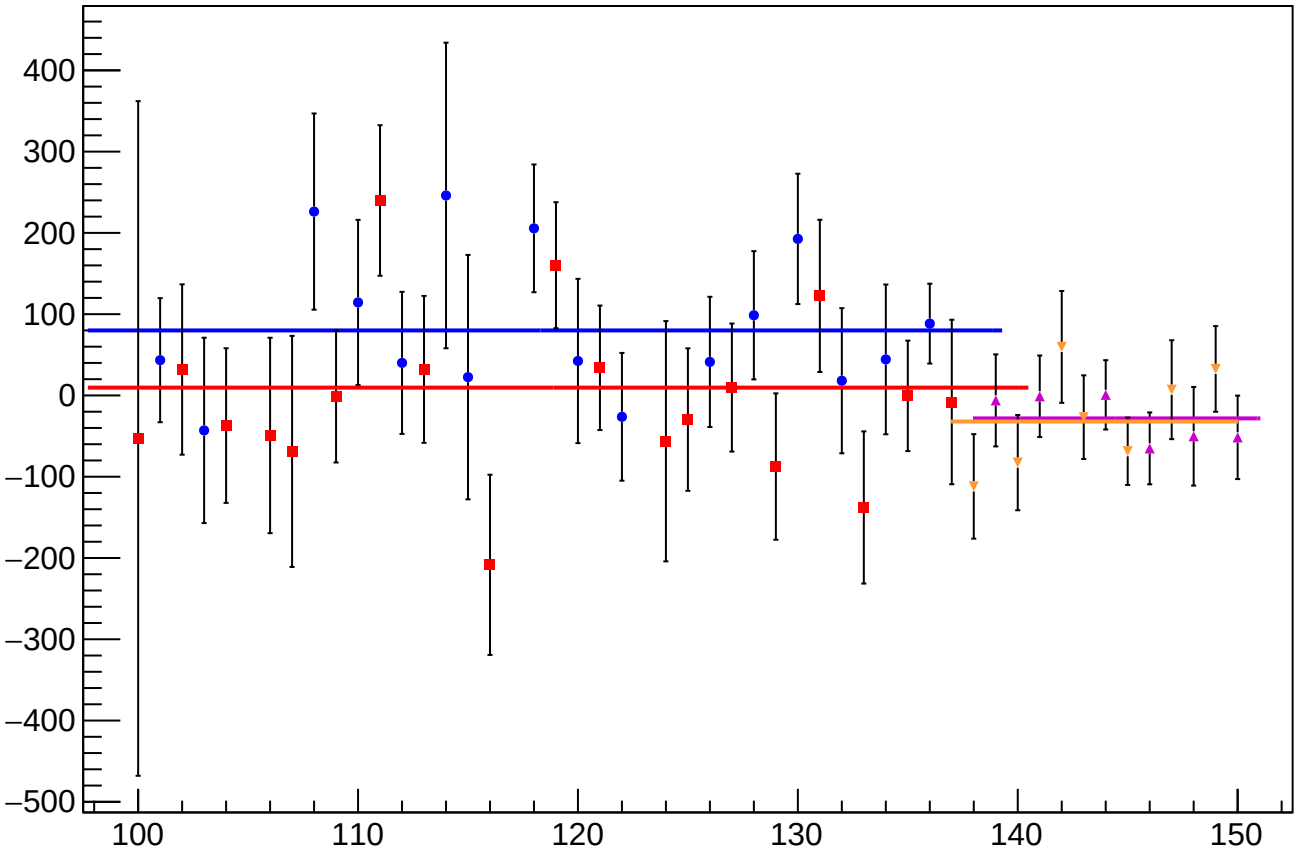
Left: 428.792+/-0.095 $\chi^2$/NDF: 626374.0/12

Right: 613.994+/-0.117 $\chi^2$/NDF: 1582132.3/34

In: 506.537+/-0.106 $\chi^2$/NDF:1856289.5/21

Out: 498.307+/-0.103 $\chi^2$/NDF:1861386.4/25

All: 502.291+/-0.074 $\chi^2$/NDF: 3720791.3/47




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -32.090+/-20.704 $\chi^2$/NDF:6.8/6

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -28.252+/-20.322 $\chi^2$/NDF:1.9/5

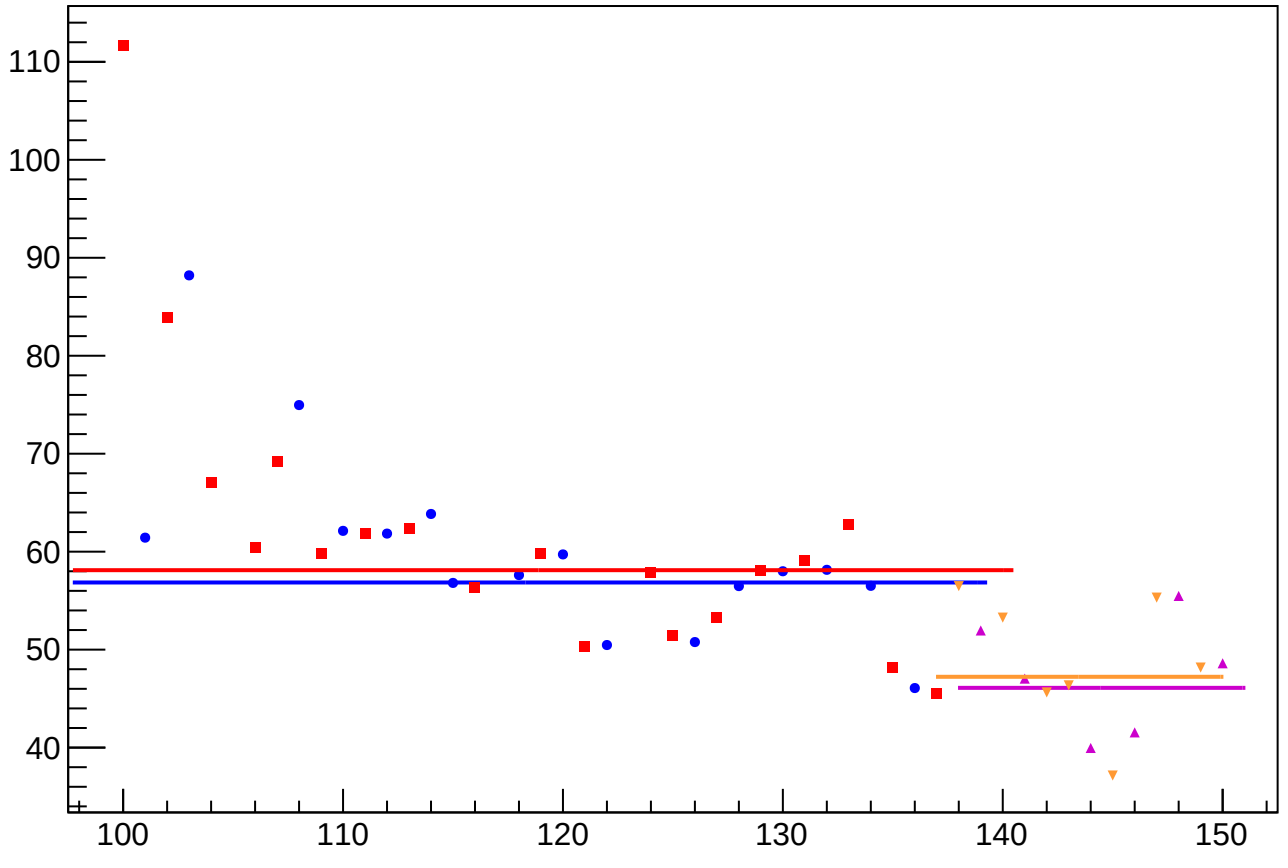
Left: -30.135+/-14.503 $\chi^2$/NDF: 8.7/12

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: 22.889+/-14.760 $\chi^2$/NDF:26.9/21

Out: -12.148+/-14.957 $\chi^2$/NDF:29.1/25

All: 5.603+/-10.506 $\chi^2$/NDF: 58.8/47




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 47.228+/-0.015 $\chi^2$/NDF:218225.8/6

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 46.099+/-0.014 $\chi^2$/NDF:137229.2/5

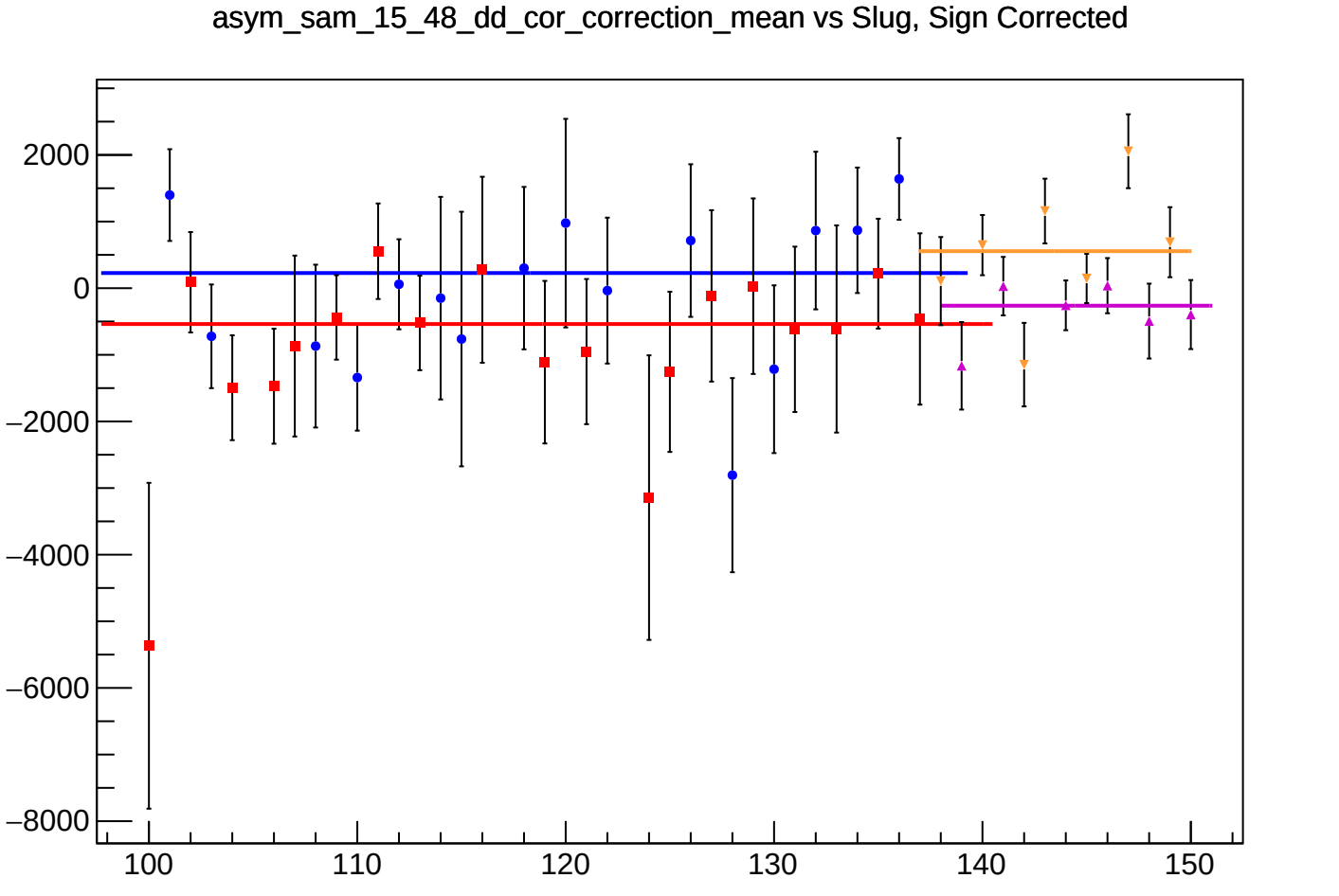
Left: 46.653+/-0.010 $\chi^2$/NDF: 358480.6/12

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 51.180+/-0.010 $\chi^2$/NDF:743488.2/21

Out: 52.431+/-0.011 $\chi^2$/NDF:795372.8/25

All: 51.797+/-0.007 $\chi^2$/NDF: 1545946.8/47




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 555.801+/-188.487 $\chi^2$/NDF:18.0/6

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -262.896+/-191.035 $\chi^2$/NDF:3.1/5

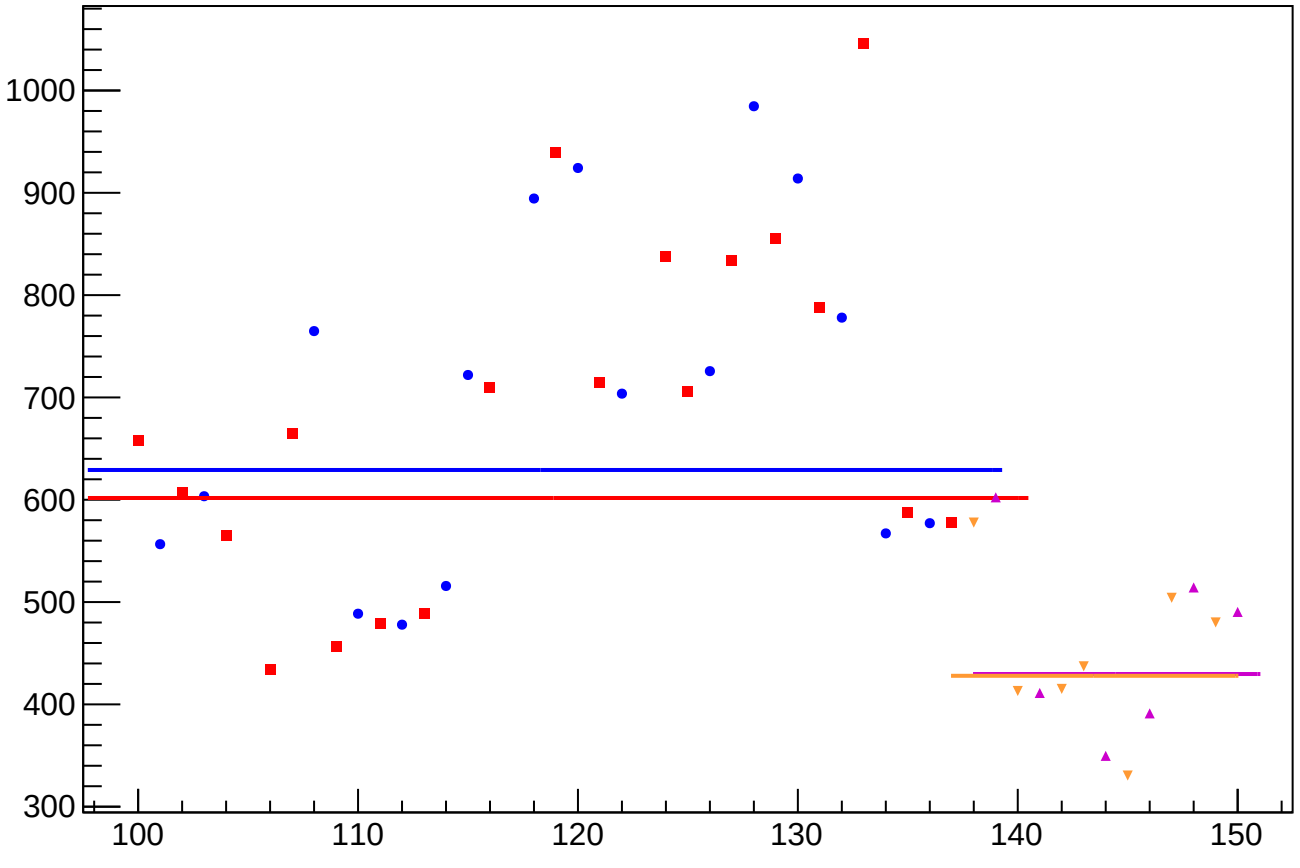
Left: 151.948+/-134.172 $\chi^2$/NDF: 30.4/12

Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -73.865+/-149.761 $\chi^2$/NDF:27.3/21

Out: 113.439+/-145.467 $\chi^2$/NDF:45.0/25

All: 22.511+/-104.346 $\chi^2$/NDF: 73.1/47




Right In: 629.101+/-0.171 $\chi^2$/NDF: 692716.0/15

Left Out: 427.935+/-0.133 $\chi^2$/NDF:302779.9/6

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 429.673+/-0.135 $\chi^2$/NDF:323510.1/5

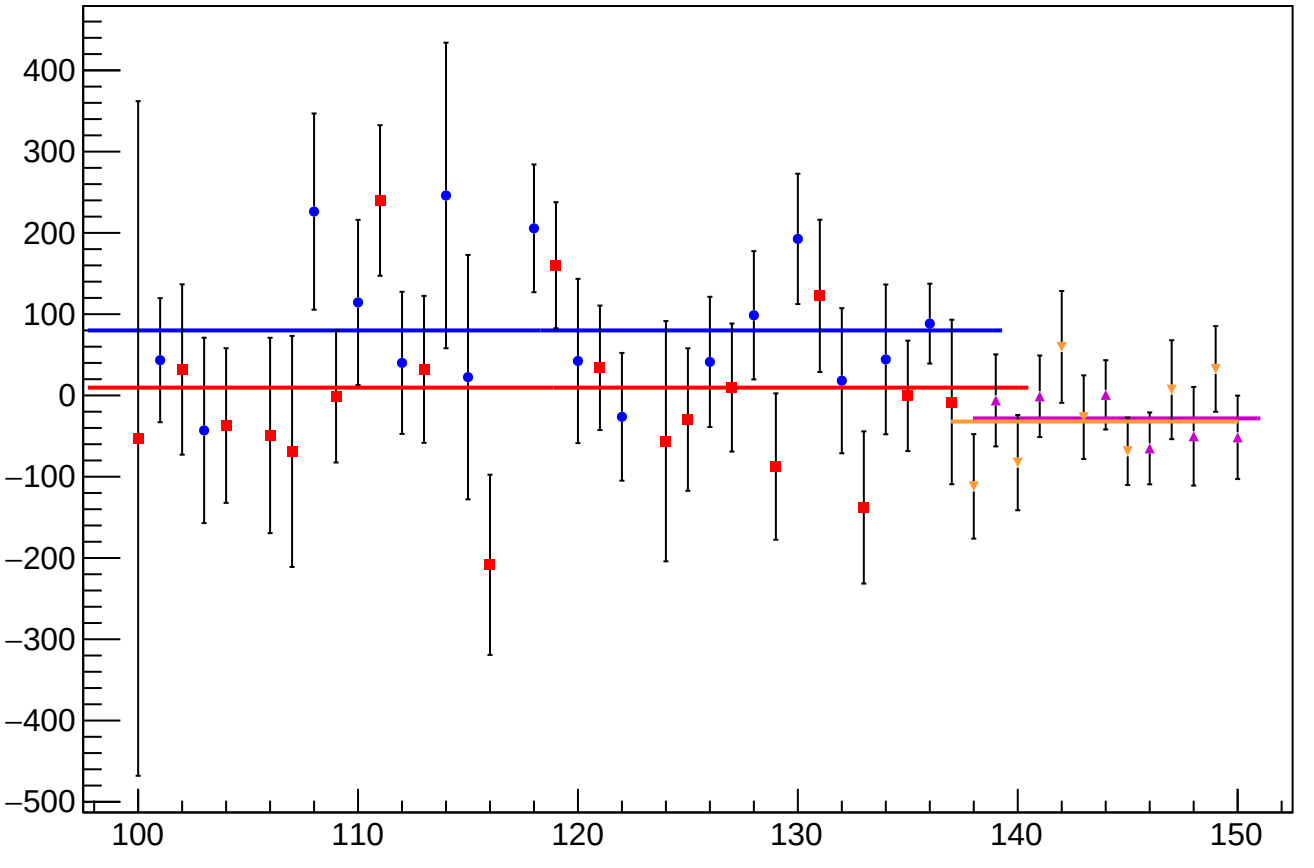
Left: 428.792+/-0.095 $\chi^2$/NDF: 626373.9/12

Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 506.538+/-0.106 $\chi^2$/NDF:1856310.8/21

Out: 498.211+/-0.103 $\chi^2$/NDF:1864342.1/25

All: 502.253+/-0.074 $\chi^2$/NDF: 3723834.3/47




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -32.090+/-20.704 $\chi^2$/NDF:6.8/6

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -28.252+/-20.322 $\chi^2$/NDF:1.9/5

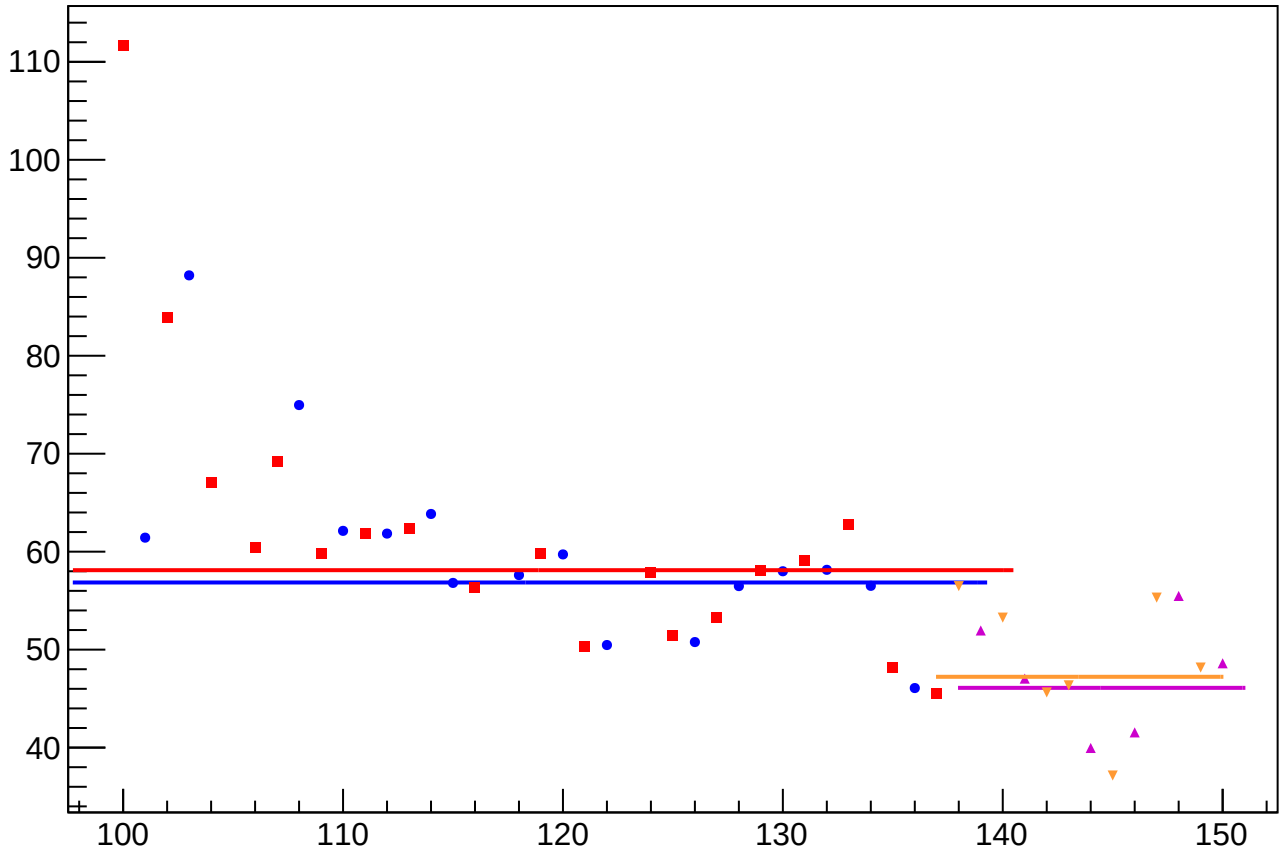
Left: -30.135+/-14.503 $\chi^2$/NDF: 8.7/12

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: 22.889+/-14.760 $\chi^2$/NDF:26.9/21

Out: -12.148+/-14.957 $\chi^2$/NDF:29.1/25

All: 5.603+/-10.506 $\chi^2$/NDF: 58.8/47




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 47.228+/-0.015 $\chi^2$/NDF:218225.8/6

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 46.099+/-0.014 $\chi^2$/NDF:137229.2/5

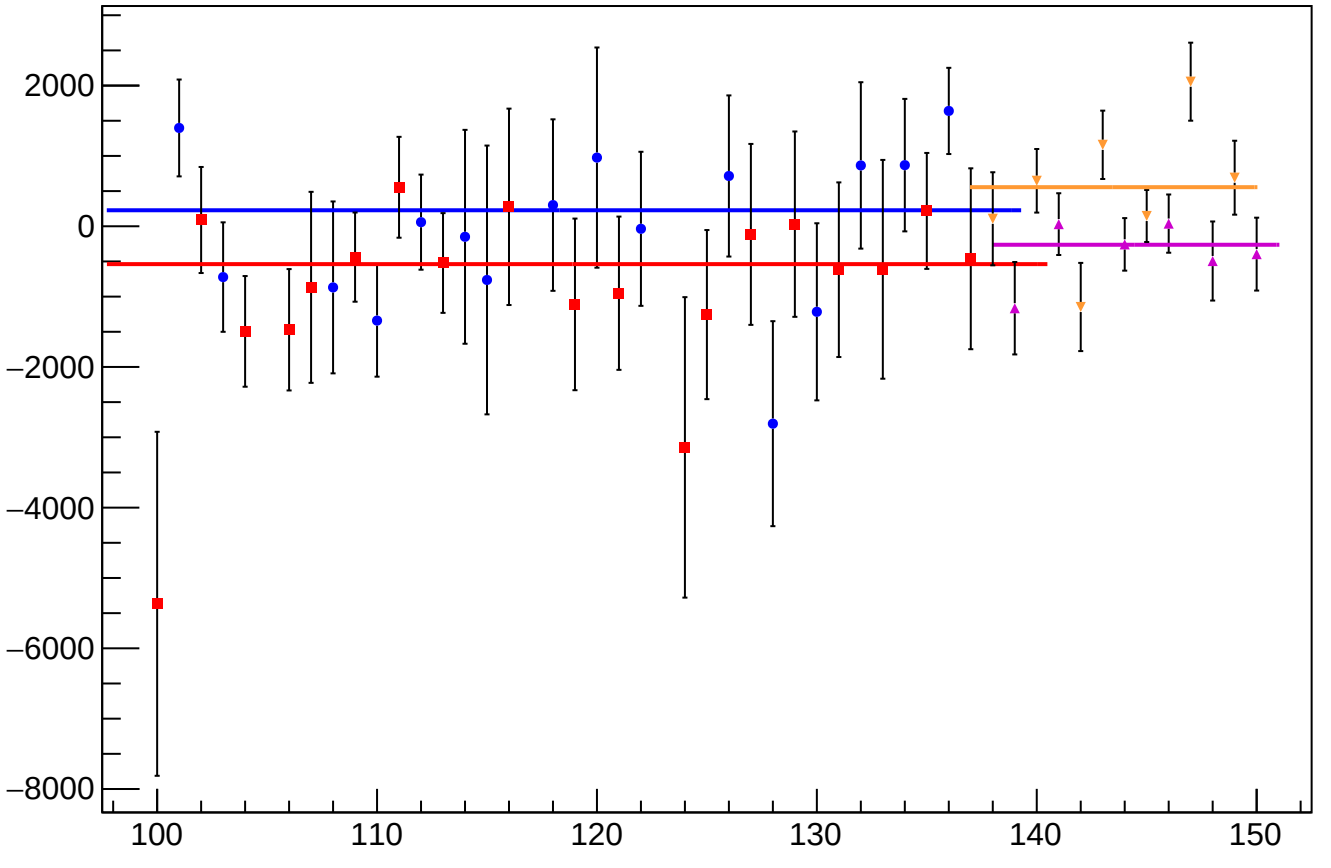
Left: 46.653+/-0.010 $\chi^2$/NDF: 358480.6/12

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 51.180+/-0.010 $\chi^2$/NDF:743488.2/21

Out: 52.431+/-0.011 $\chi^2$/NDF:795372.8/25

All: 51.797+/-0.007 $\chi^2$/NDF: 1545946.8/47




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 555.801+/-188.487 $\chi^2$/NDF:18.0/6

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -262.896+/-191.035 $\chi^2$/NDF:3.1/5

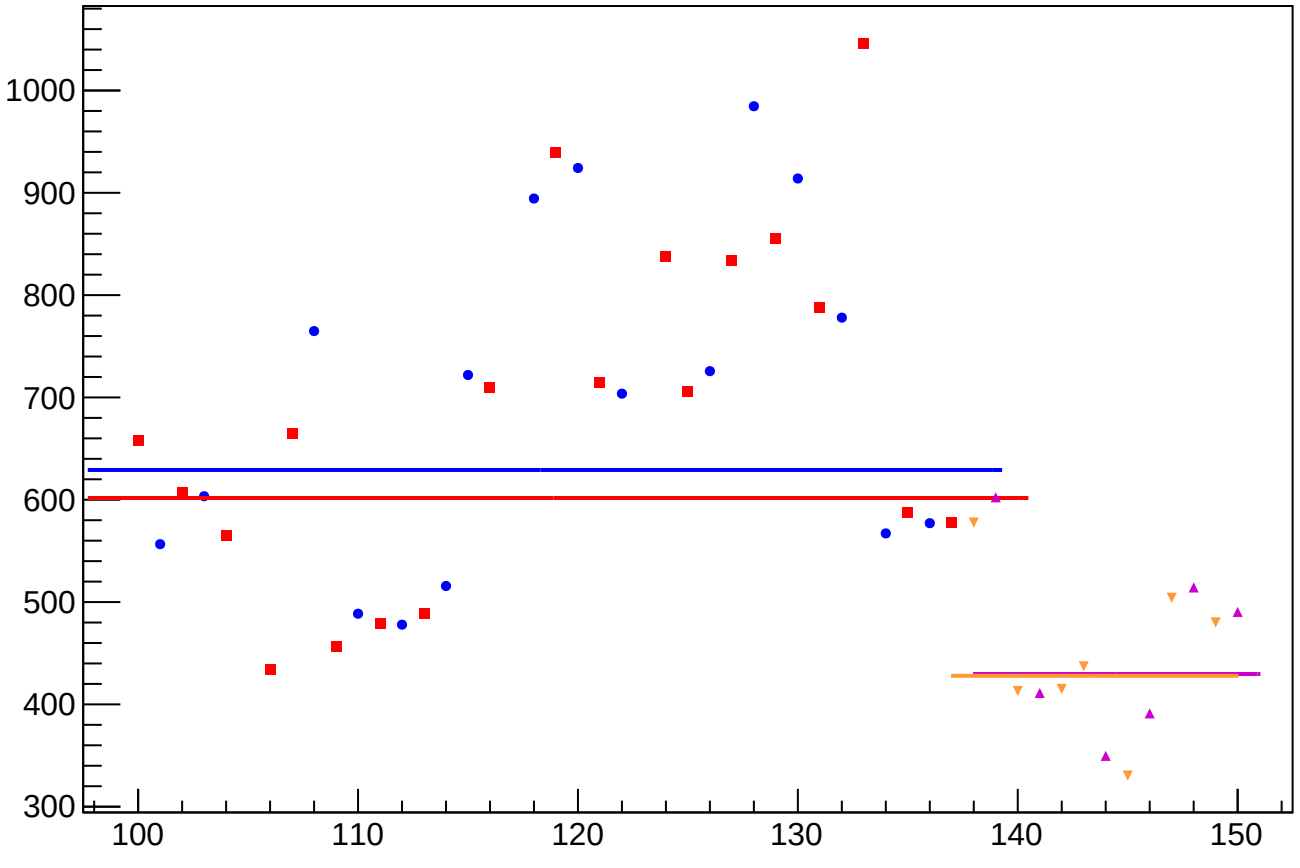
Left: 151.948+/-134.172 $\chi^2$/NDF: 30.4/12

Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -73.865+/-149.761 $\chi^2$/NDF:27.3/21

Out: 113.439+/-145.467 $\chi^2$/NDF:45.0/25

All: 22.511+/-104.346 $\chi^2$/NDF: 73.1/47




Right In: 629.101+/-0.171 $\chi^2$/NDF: 692716.0/15

Left Out: 427.935+/-0.133 $\chi^2$/NDF:302779.9/6

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 429.673+/-0.135 $\chi^2$/NDF:323510.1/5

Left: 428.792+/-0.095 $\chi^2$/NDF: 626373.9/12

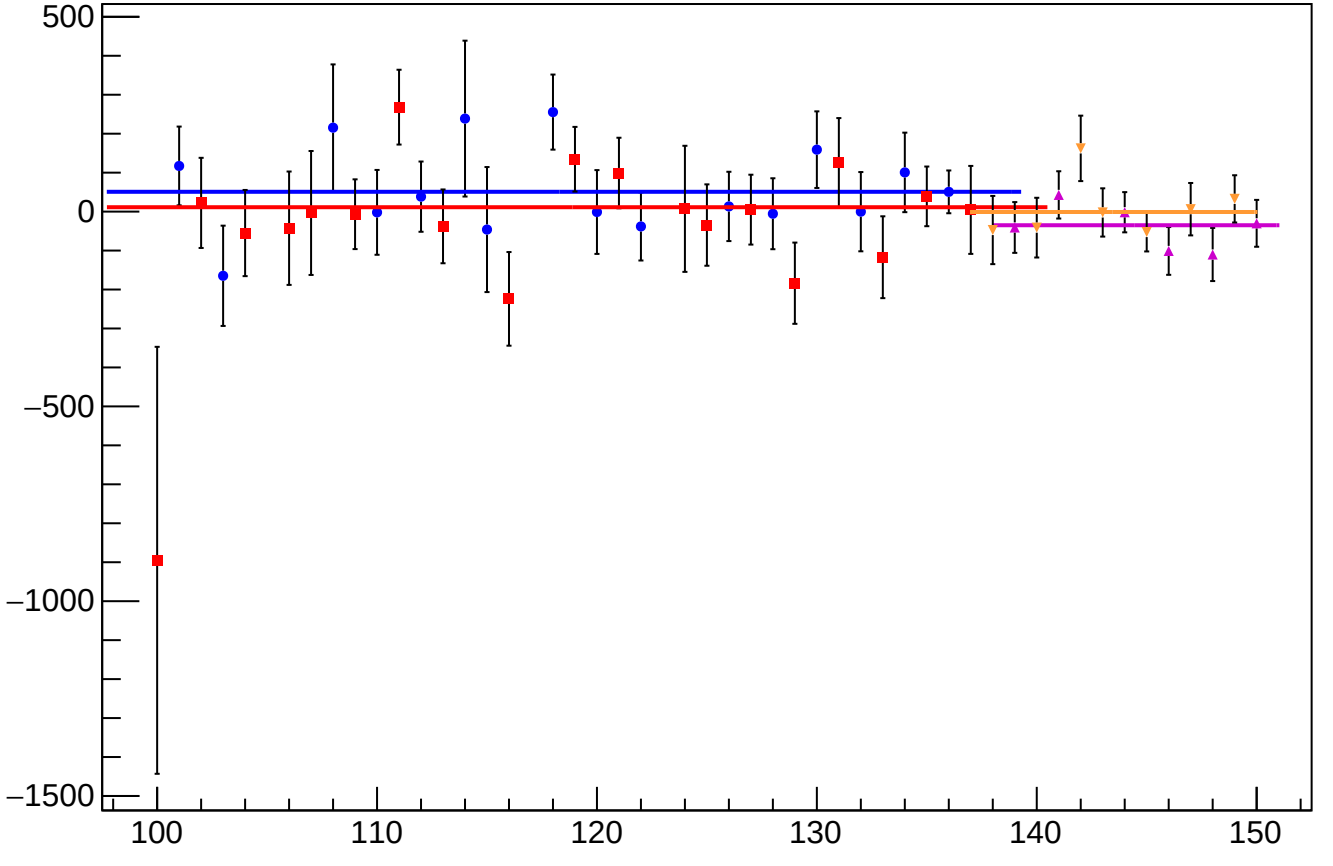
Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 506.538+/-0.106 $\chi^2$/NDF:1856310.8/21

Out: 498.211+/-0.103 $\chi^2$/NDF:1864342.1/25

All: 502.253+/-0.074 $\chi^2$/NDF: 3723834.3/47

# dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: 50.861+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -1.012+/-25.006 $\chi^2$/NDF:5.7/6

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: -34.988+/-24.697 $\chi^2$/NDF:4.4/5

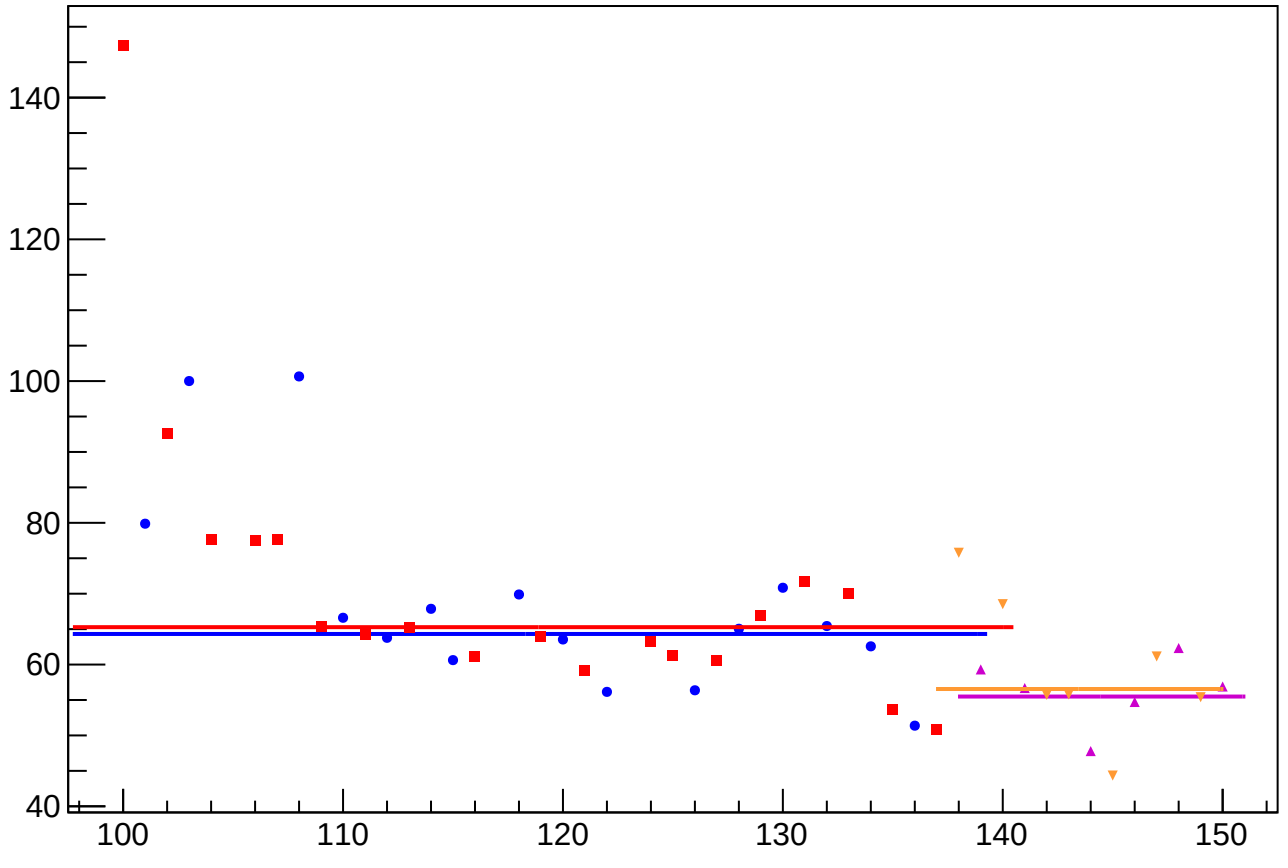
Left: -18.212+/-17.572 $\chi^2$/NDF: 11.1/12

Right: 30.925+/-17.259 $\chi^2$/NDF: 39.1/34

In: 8.293+/-17.390 $\chi^2$/NDF:24.3/21

Out: 5.294+/-17.436 $\chi^2$/NDF:29.9/25

All: 6.797+/-12.313 $\chi^2$/NDF: 54.2/47




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464952.4/15

Left Out: 56.551+/-0.018 $\chi^2$/NDF:275967.9/6

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319136.6/18

Left In: 55.487+/-0.017 $\chi^2$/NDF:73723.0/5

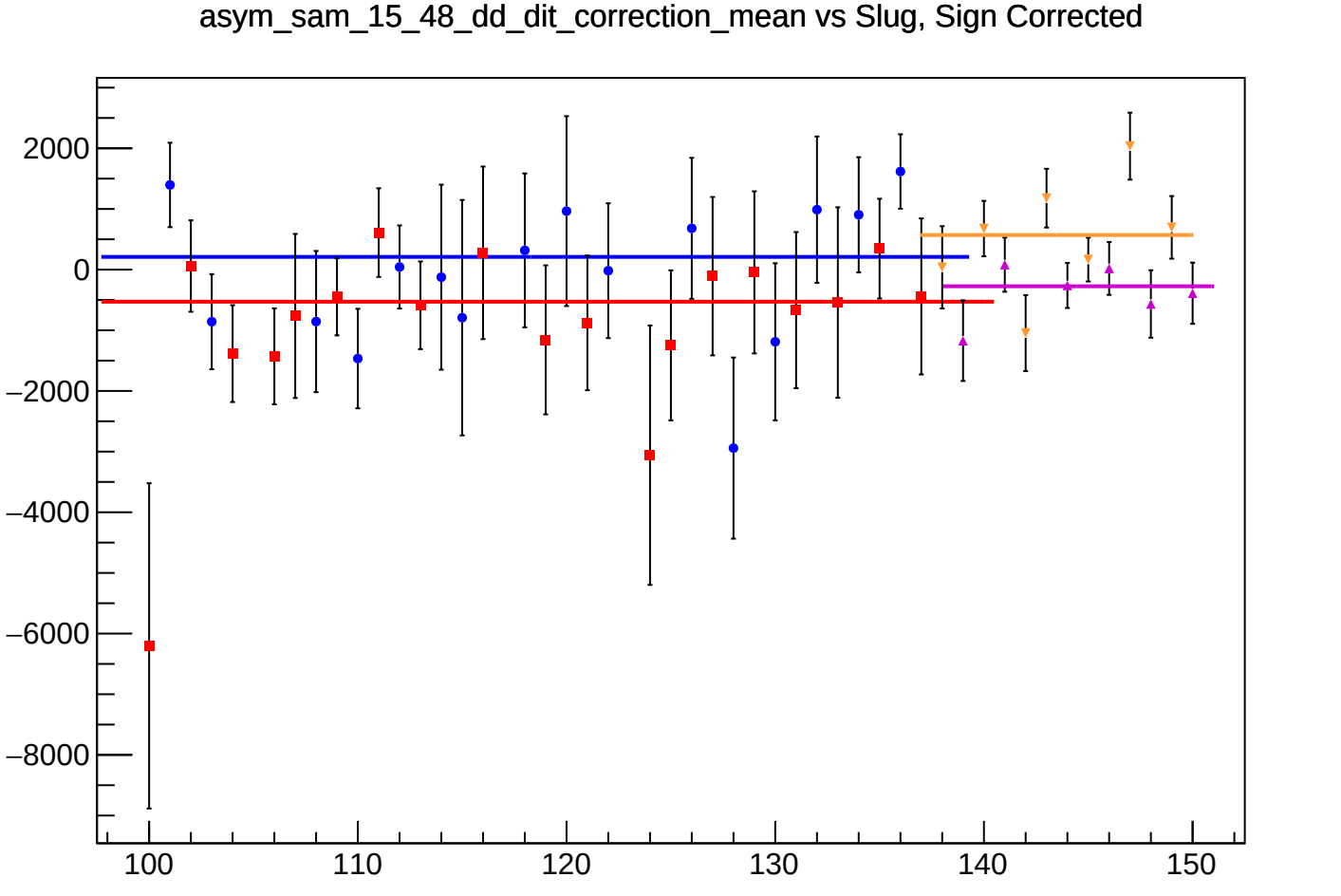
Left: 56.012+/-0.012 $\chi^2$/NDF: 351524.3/12

Right: 64.800+/-0.012 $\chi^2$/NDF: 785637.7/34

In: 59.939+/-0.012 $\chi^2$/NDF:667569.2/21

Out: 61.035+/-0.012 $\chi^2$/NDF:720249.6/25

All: 60.485+/-0.009 $\chi^2$/NDF: 1391781.6/47




Right In: 210.018+/-243.798 $\chi^2$/NDF: 22.4/15

Left Out: 570.497+/-187.375 $\chi^2$/NDF:17.3/6

Right Out: -528.675+/-229.679 $\chi^2$/NDF: 13.8/18

Left In: -274.265+/-192.478 $\chi^2$/NDF:3.2/5

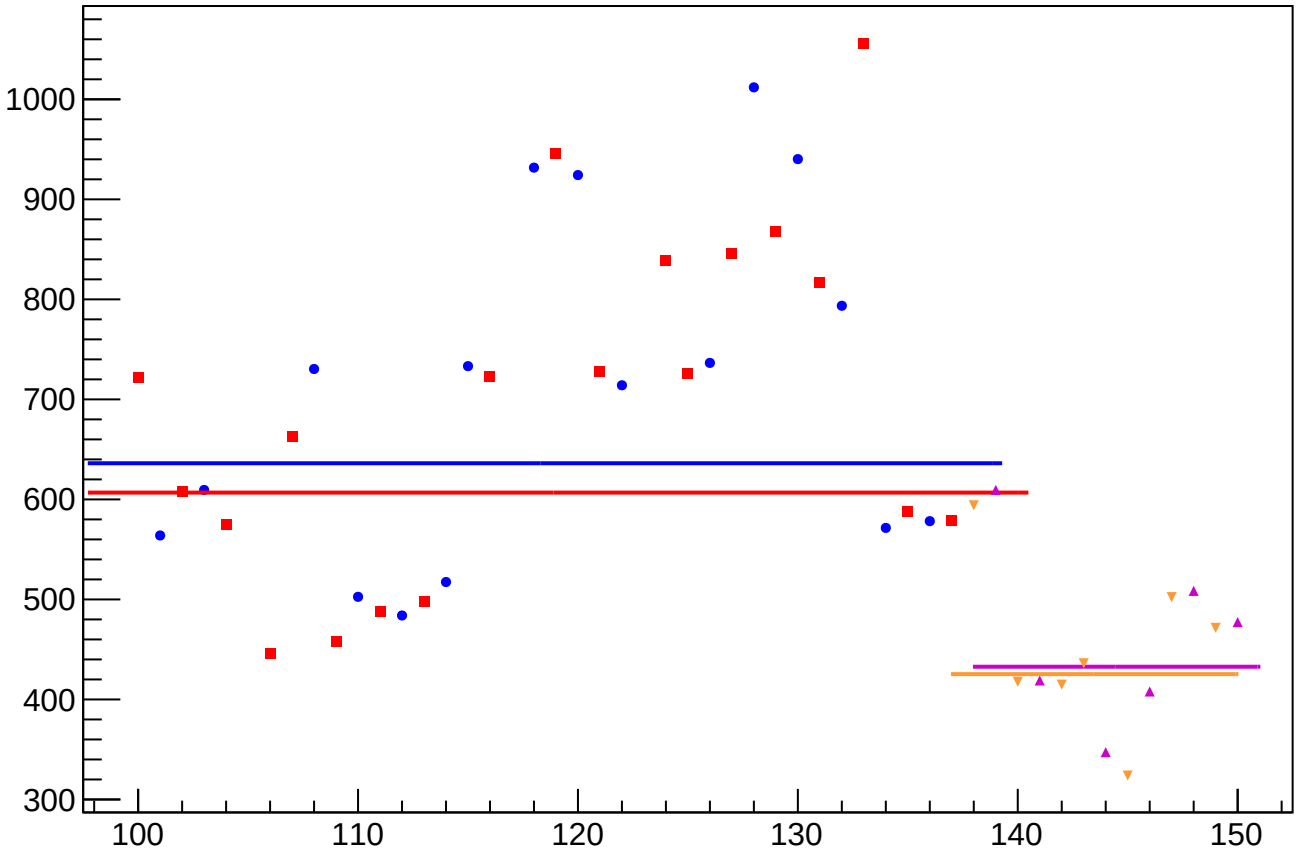
Left: 159.463+/-134.262 $\chi^2$/NDF: 30.4/12

Right: -181.337+/-167.176 $\chi^2$/NDF: 41.1/34

In: -88.313+/-151.071 $\chi^2$/NDF:28.1/21

Out: 131.269+/-145.189 $\chi^2$/NDF:44.8/25

All: 25.836+/-104.682 $\chi^2$/NDF: 74.0/47




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705237.7/15

Left Out: 425.302+/-0.132 $\chi^2$/NDF:338422.0/6

Right Out: 606.803+/-0.162 $\chi^2$/NDF: 893878.7/18

Left In: 432.712+/-0.136 $\chi^2$/NDF:308860.9/5

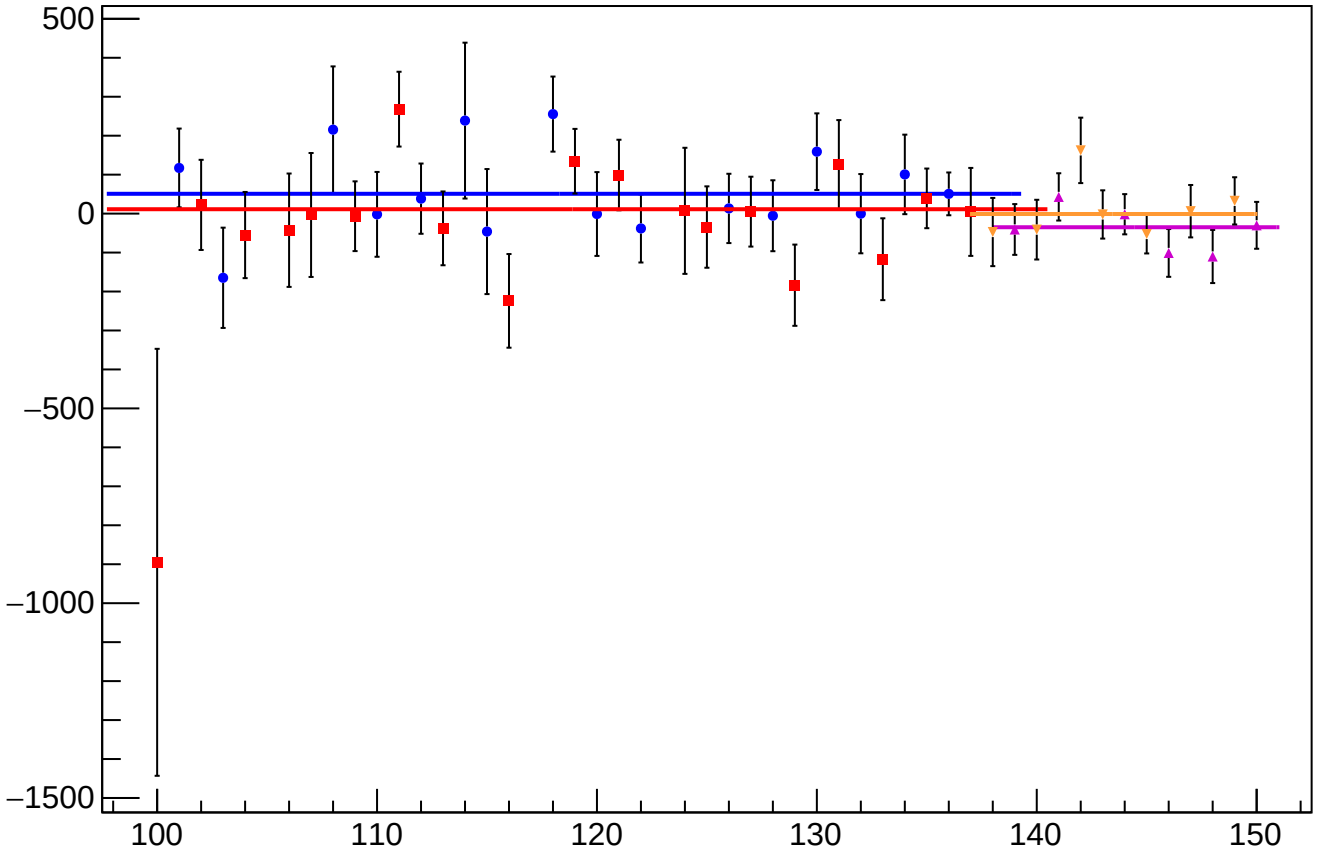
Left: 428.908+/-0.095 $\chi^2$/NDF: 648805.1/12

Right: 620.599+/-0.118 $\chi^2$/NDF: 1614464.0/34

In: 510.825+/-0.107 $\chi^2$/NDF:1871940.3/21

Out: 497.829+/-0.103 $\chi^2$/NDF:1982175.9/25

All: 504.069+/-0.074 $\chi^2$/NDF: 3861810.0/47




Right In: 50.859+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -1.012+/-25.006 $\chi^2$/NDF:5.7/6

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: -34.988+/-24.697 $\chi^2$/NDF:4.4/5

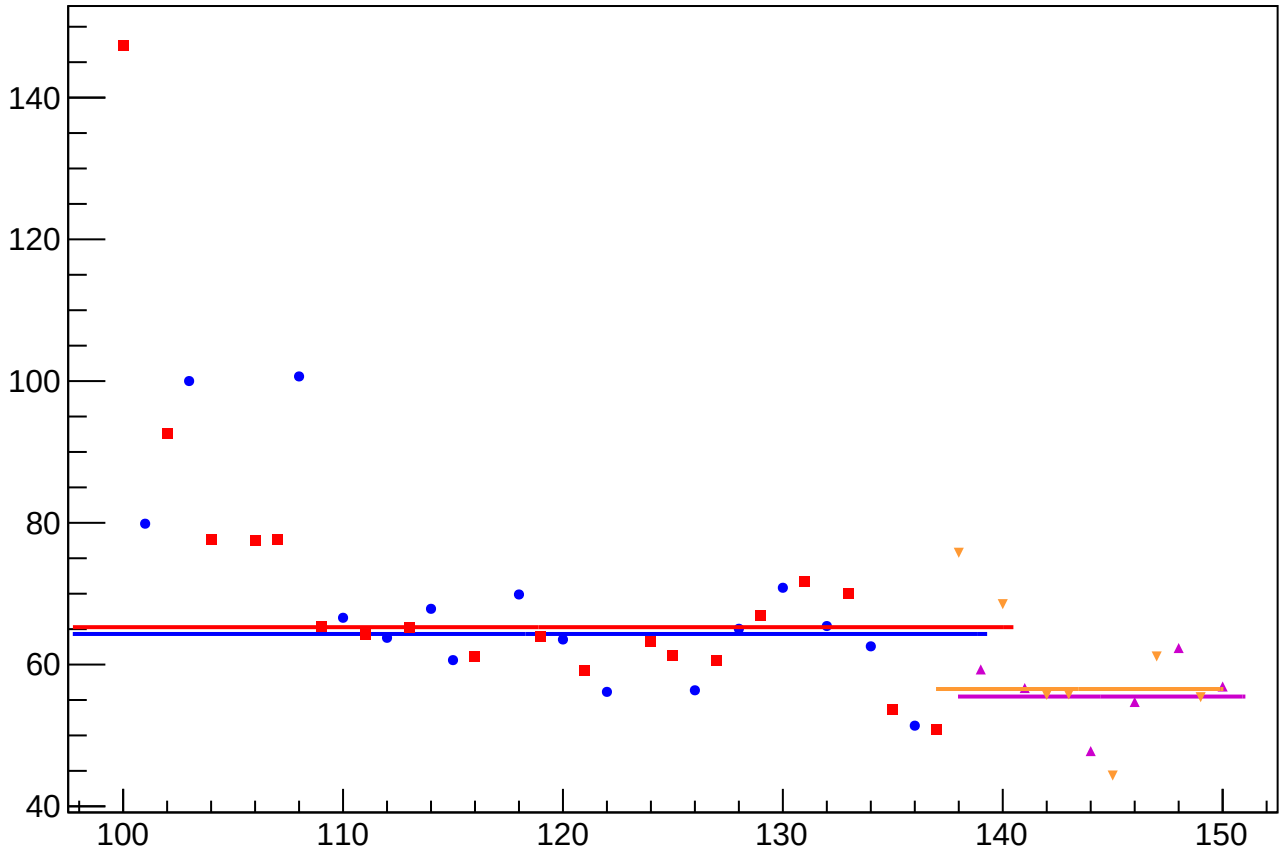
Left: -18.211+/-17.572 $\chi^2$/NDF: 11.1/12

Right: 30.924+/-17.259 $\chi^2$/NDF: 39.1/34

In: 8.292+/-17.390 $\chi^2$/NDF:24.3/21

Out: 5.294+/-17.436 $\chi^2$/NDF:29.9/25

All: 6.797+/-12.313 $\chi^2$/NDF: 54.2/47




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464950.5/15

Left Out: 56.551+/-0.018 $\chi^2$/NDF:275954.3/6

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319140.2/18

Left In: 55.487+/-0.017 $\chi^2$/NDF:73718.1/5

Left: 56.012+/-0.012 $\chi^2$/NDF: 351506.1/12

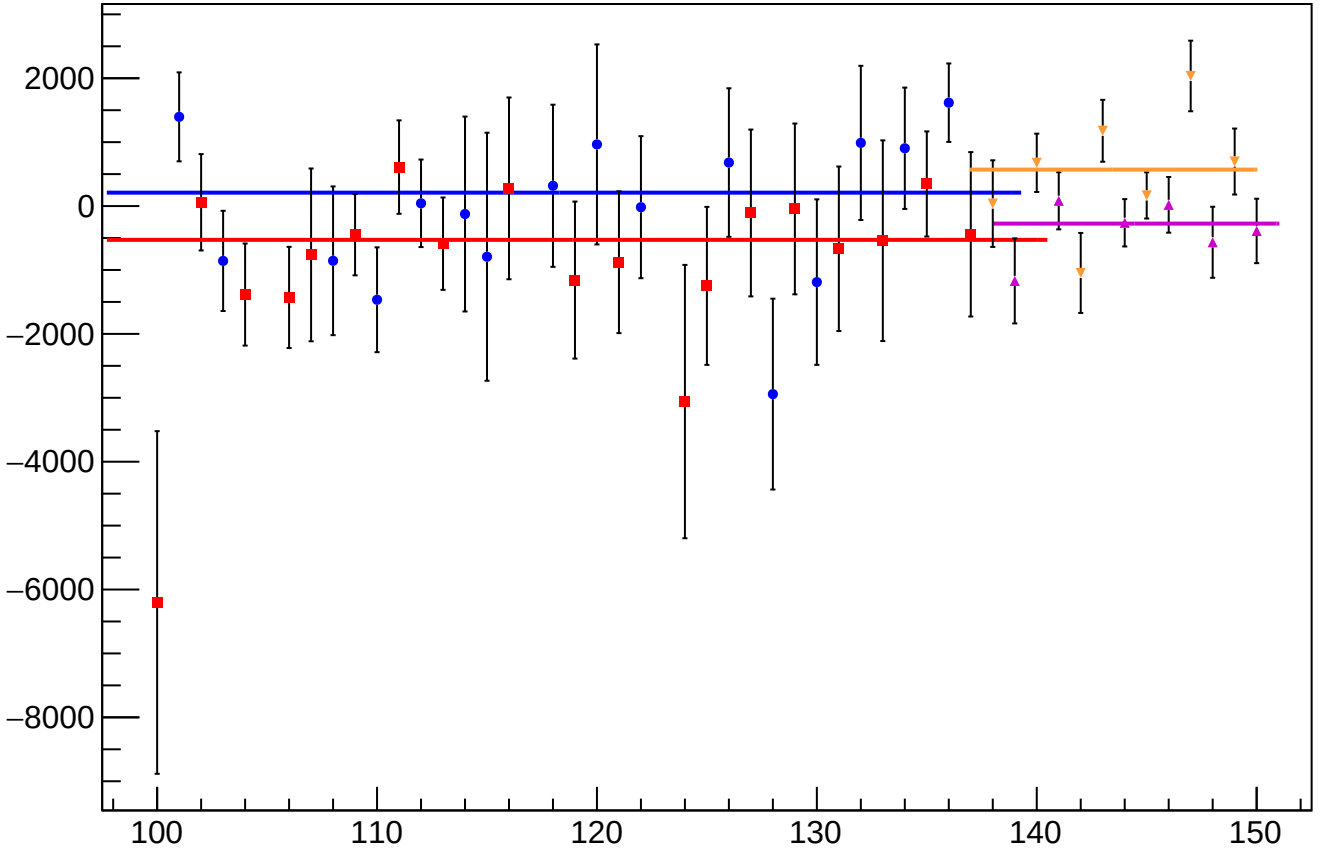
Right: 64.800+/-0.012 $\chi^2$/NDF: 785639.3/34

In: 59.939+/-0.012 $\chi^2$/NDF:667559.5/21

Out: 61.035+/-0.012 $\chi^2$/NDF:720231.8/25

All: 60.485+/-0.009 $\chi^2$/NDF: 1391754.3/47

asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 210.017+/-243.798 $\chi^2$/NDF: 22.4/15

Left Out: 570.496+/-187.375 $\chi^2$/NDF:17.3/6

Right Out: -528.674+/-229.678 $\chi^2$/NDF: 13.8/18

Left In: -274.265+/-192.478 $\chi^2$/NDF:3.2/5

Left: 159.463+/-134.262 $\chi^2$/NDF: 30.4/12

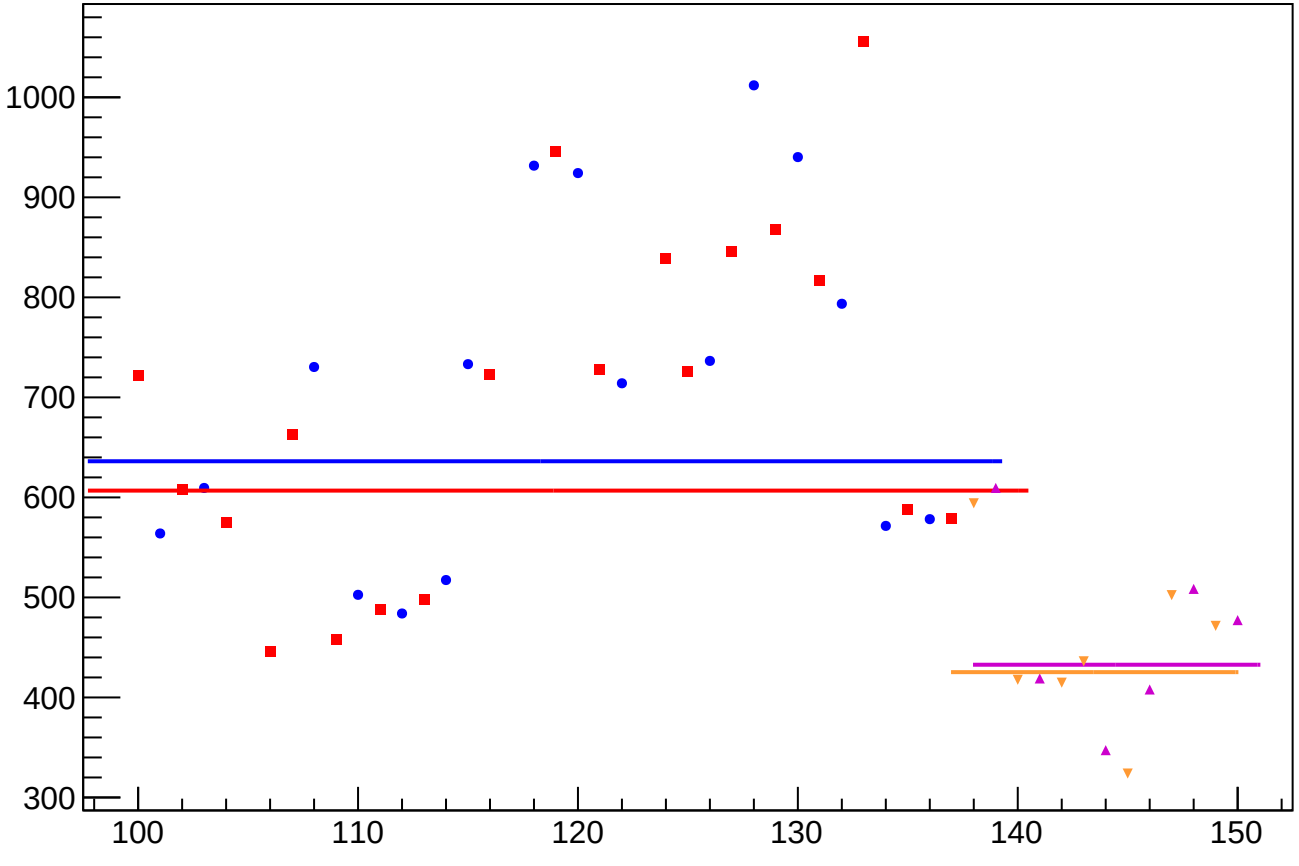
Right: -181.337+/-167.176 $\chi^2$/NDF: 41.1/34

In: -88.313+/-151.071 $\chi^2$/NDF:28.1/21

Out: 131.270+/-145.188 $\chi^2$/NDF:44.8/25

All: 25.837+/-104.682 $\chi^2$/NDF: 74.0/47

asym_sam_15_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705241.1/15

Left Out: 425.301+/-0.132 $\chi^2$/NDF:338426.3/6

Right Out: 606.802+/-0.162 $\chi^2$/NDF: 893880.8/18

Left In: 432.712+/-0.136 $\chi^2$/NDF:308862.2/5

Left: 428.907+/-0.095 $\chi^2$/NDF: 648810.9/12

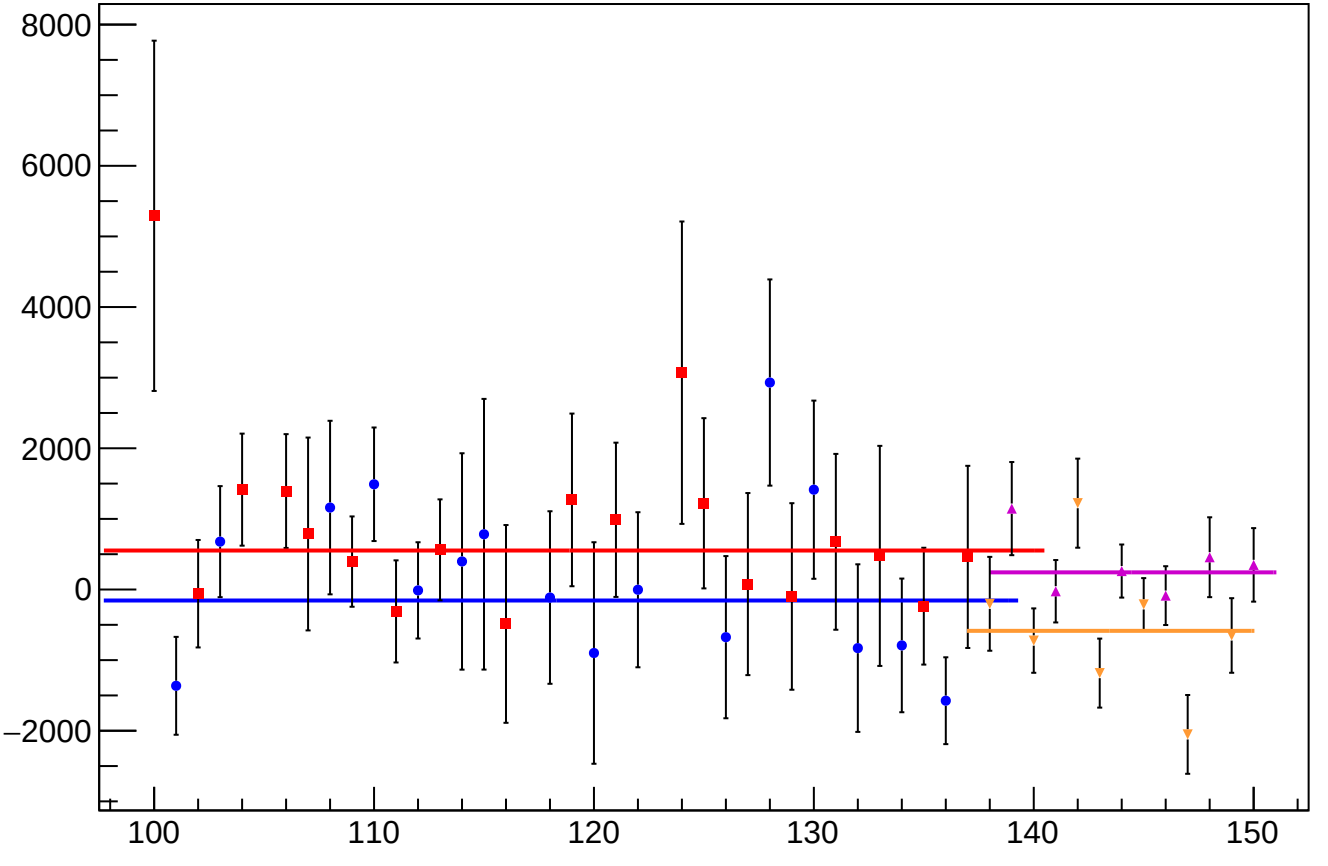
Right: 620.599+/-0.118 $\chi^2$/NDF: 1614469.5/34

In: 510.825+/-0.107 $\chi^2$/NDF:1871945.6/21

Out: 497.828+/-0.103 $\chi^2$/NDF:1982187.1/25

All: 504.069+/-0.074 $\chi^2$/NDF: 3861827.0/47

# asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: -155.651+/-242.595 $\chi^2$/NDF: 22.5/15

Left Out: -585.312+/-189.684 $\chi^2$/NDF:18.1/6

Right Out: 552.176+/-228.890 $\chi^2$/NDF: 12.1/18

Left In: 242.855+/-192.174 $\chi^2$/NDF:3.1/5

Left: -176.629+/-134.999 $\chi^2$/NDF: 30.5/12

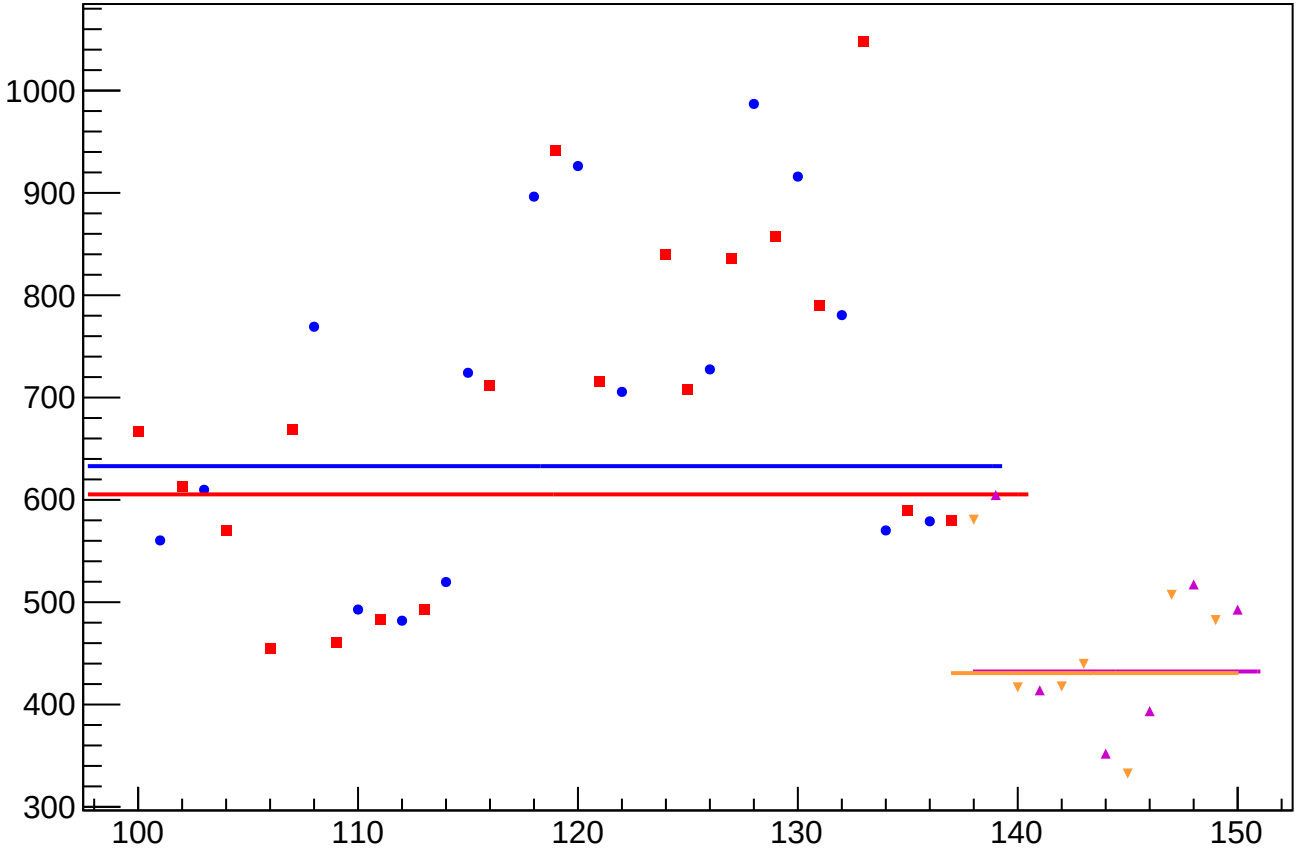
Right: 218.820+/-166.484 $\chi^2$/NDF: 39.1/34

In: 89.204+/-150.637 $\chi^2$/NDF:27.2/21

Out: -122.185+/-146.051 $\chi^2$/NDF:44.9/25

All: -19.758+/-104.857 $\chi^2$/NDF: 73.1/47

# asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 632.966+/-0.172 $\chi^2$/NDF: 681138.4/15

Left Out: 430.704+/-0.134 $\chi^2$/NDF:301131.4/6

Right Out: 605.373+/-0.162 $\chi^2$/NDF: 853994.0/18

Left In: 432.302+/-0.136 $\chi^2$/NDF:320899.7/5

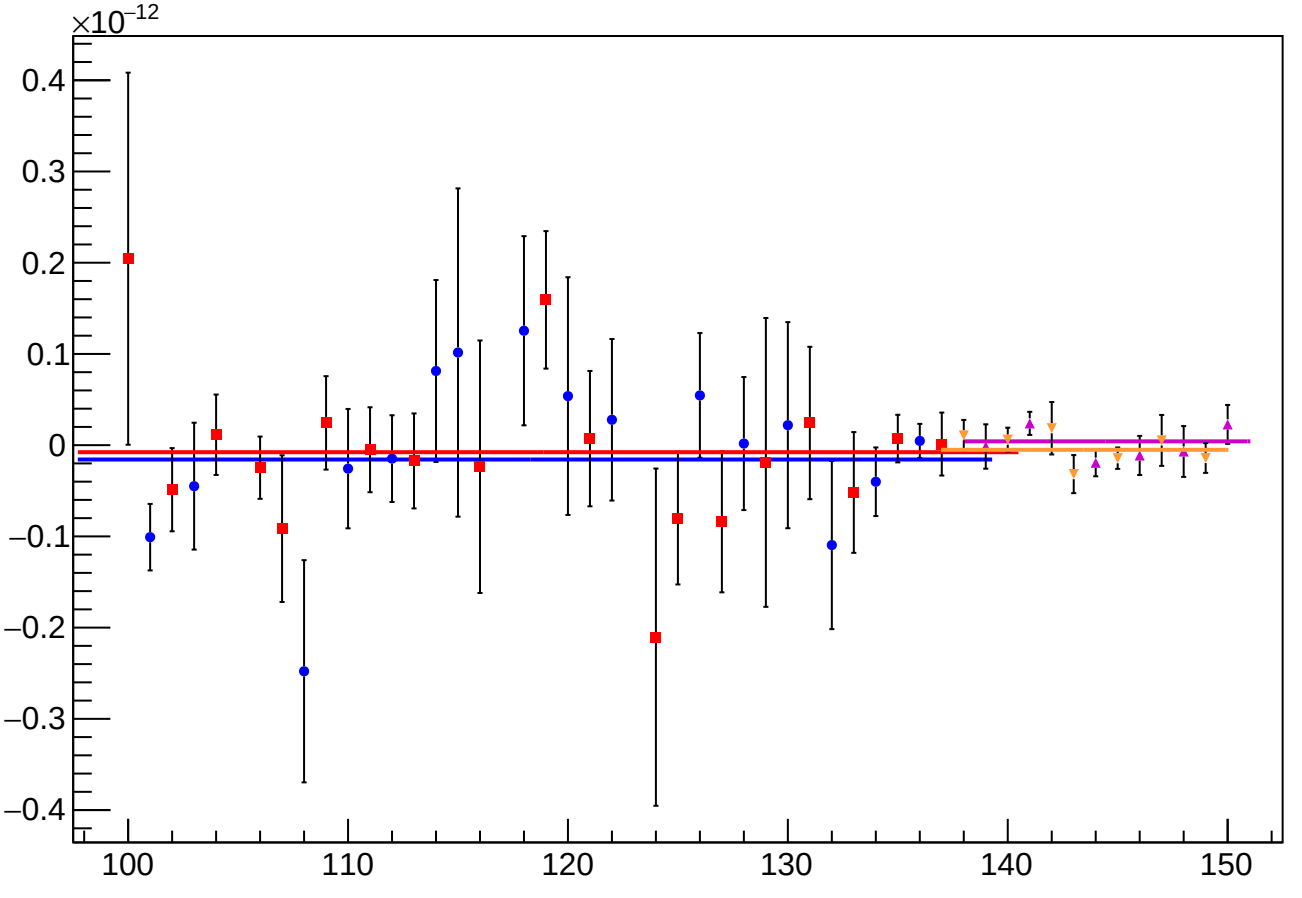
Left: 431.493+/-0.095 $\chi^2$/NDF: 622101.1/12

Right: 618.368+/-0.118 $\chi^2$/NDF: 1548821.0/34

In: 509.672+/-0.107 $\chi^2$/NDF:1842813.8/21

Out: 501.820+/-0.103 $\chi^2$/NDF:1845611.0/25

All: 505.625+/-0.074 $\chi^2$/NDF: 3691225.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.4/5

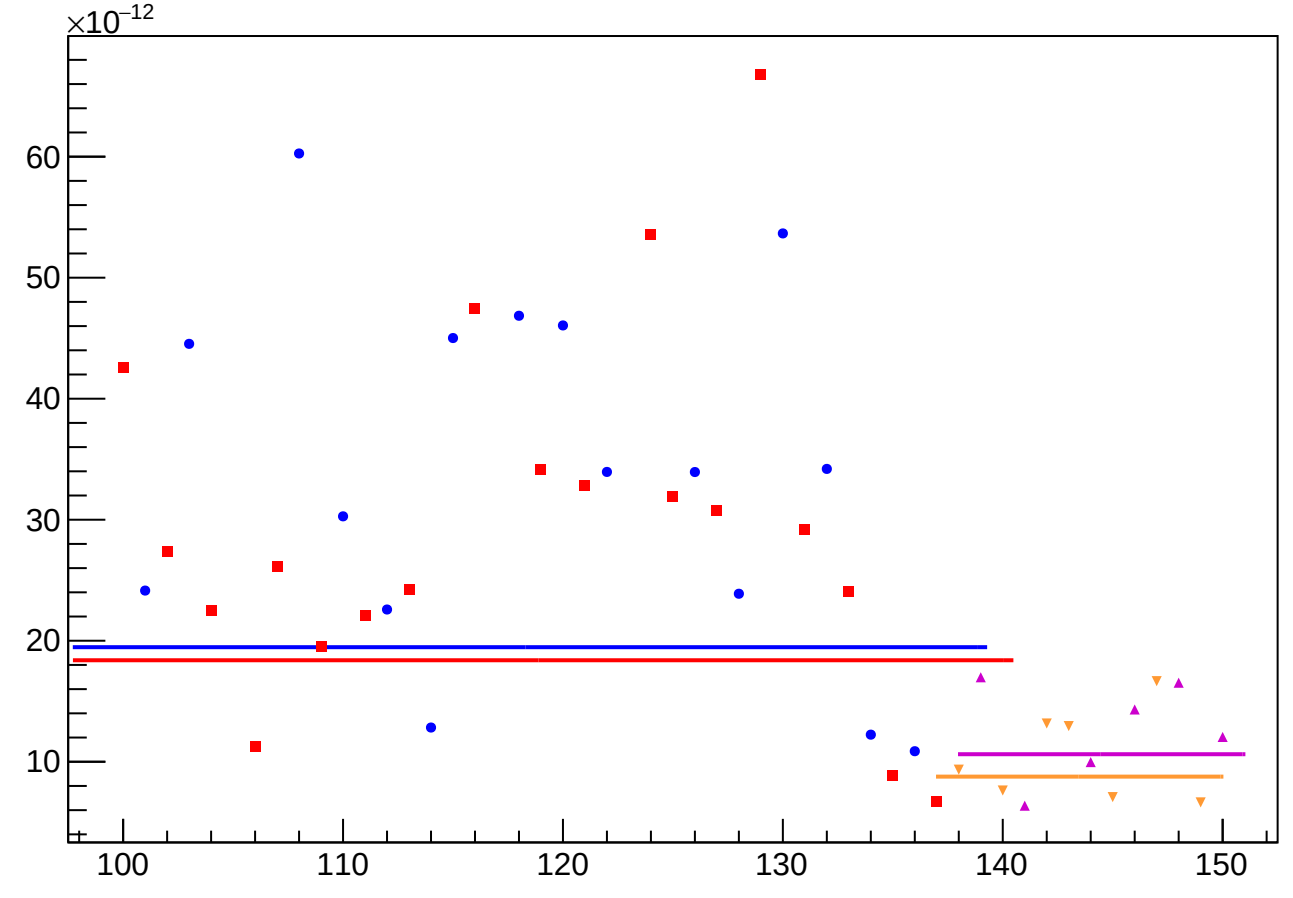
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:18.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 43.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1735565.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:380086.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1444777.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:524733.1/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 977028.9/12

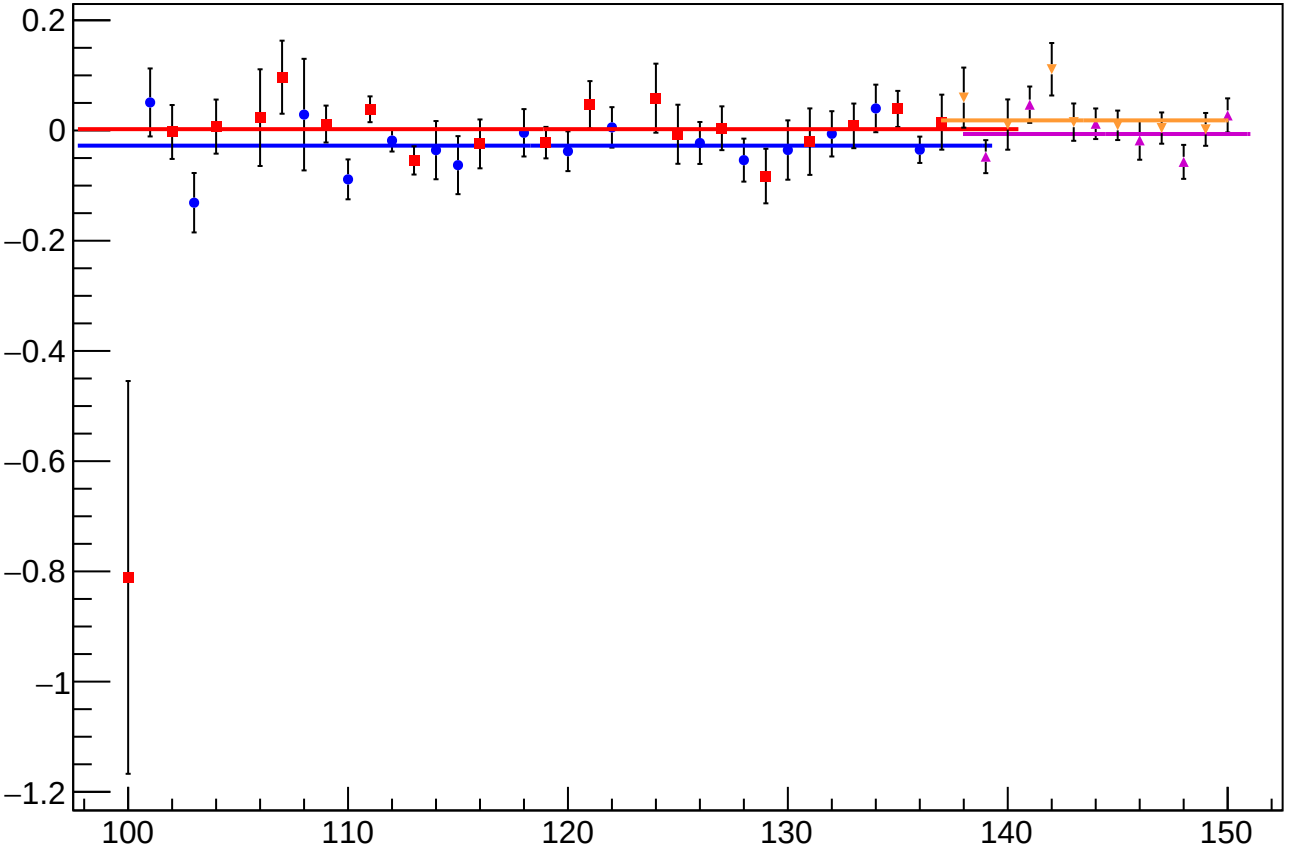
Right: 0.000+/-0.000 $\chi^2$/NDF: 3187950.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2991026.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2810195.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 5922163.7/47

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.018+/-0.013 $\chi^2$/NDF:5.1/6

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.006+/-0.013 $\chi^2$/NDF:8.9/5

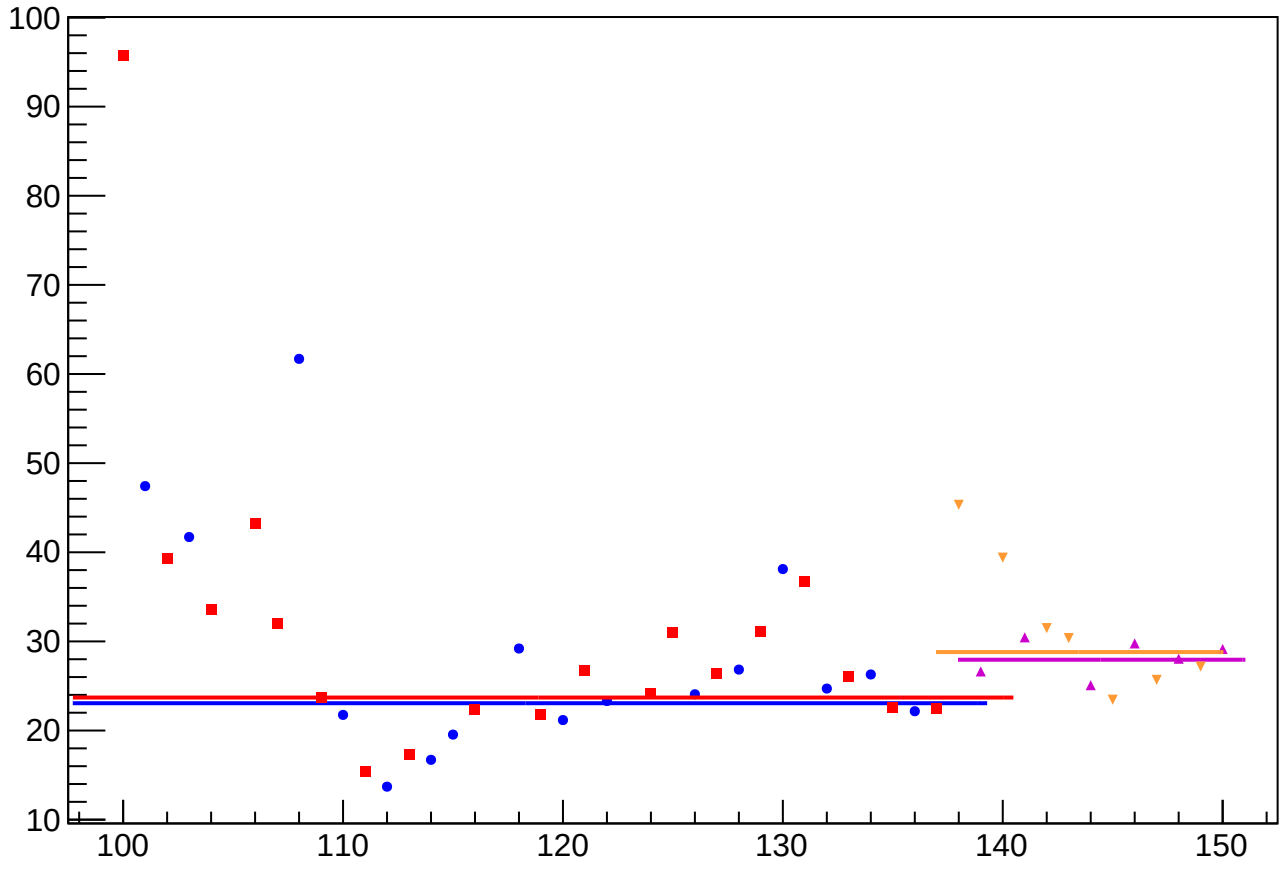
Left: 0.006+/-0.009 $\chi^2$/NDF: 15.8/12

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.020+/-0.008 $\chi^2$/NDF:24.4/21

Out: 0.008+/-0.008 $\chi^2$/NDF:28.1/25

All: -0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 28.805+/-0.009 $\chi^2$/NDF:412495.1/6

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.945+/-0.009 $\chi^2$/NDF:45136.3/5

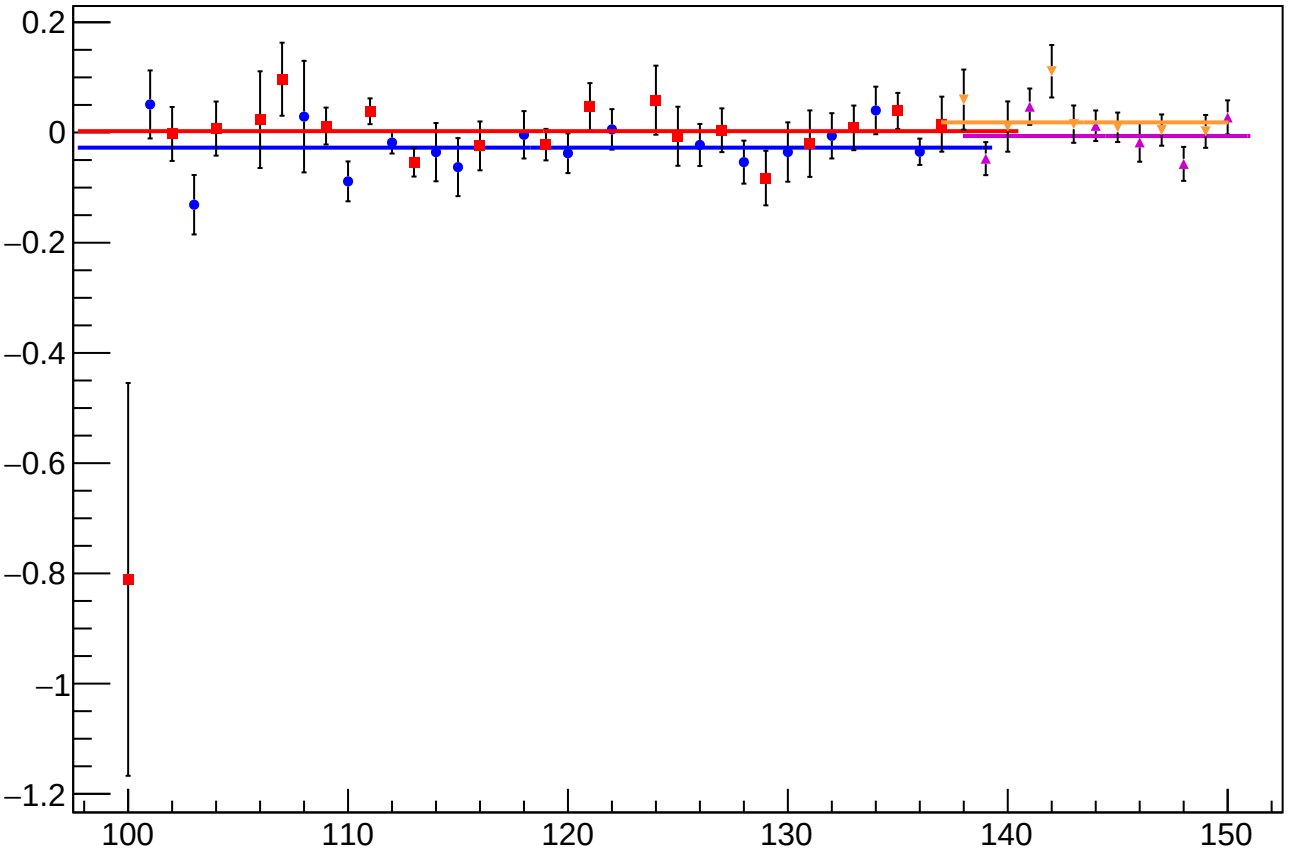
Left: 28.363+/-0.006 $\chi^2$/NDF: 462122.7/12

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 24.798+/-0.005 $\chi^2$/NDF:1801204.0/21

Out: 25.425+/-0.005 $\chi^2$/NDF:1704573.5/25

All: 25.111+/-0.004 $\chi^2$/NDF: 3512651.7/47




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.018+/-0.013 $\chi^2$/NDF:5.1/6

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.006+/-0.013 $\chi^2$/NDF:8.9/5

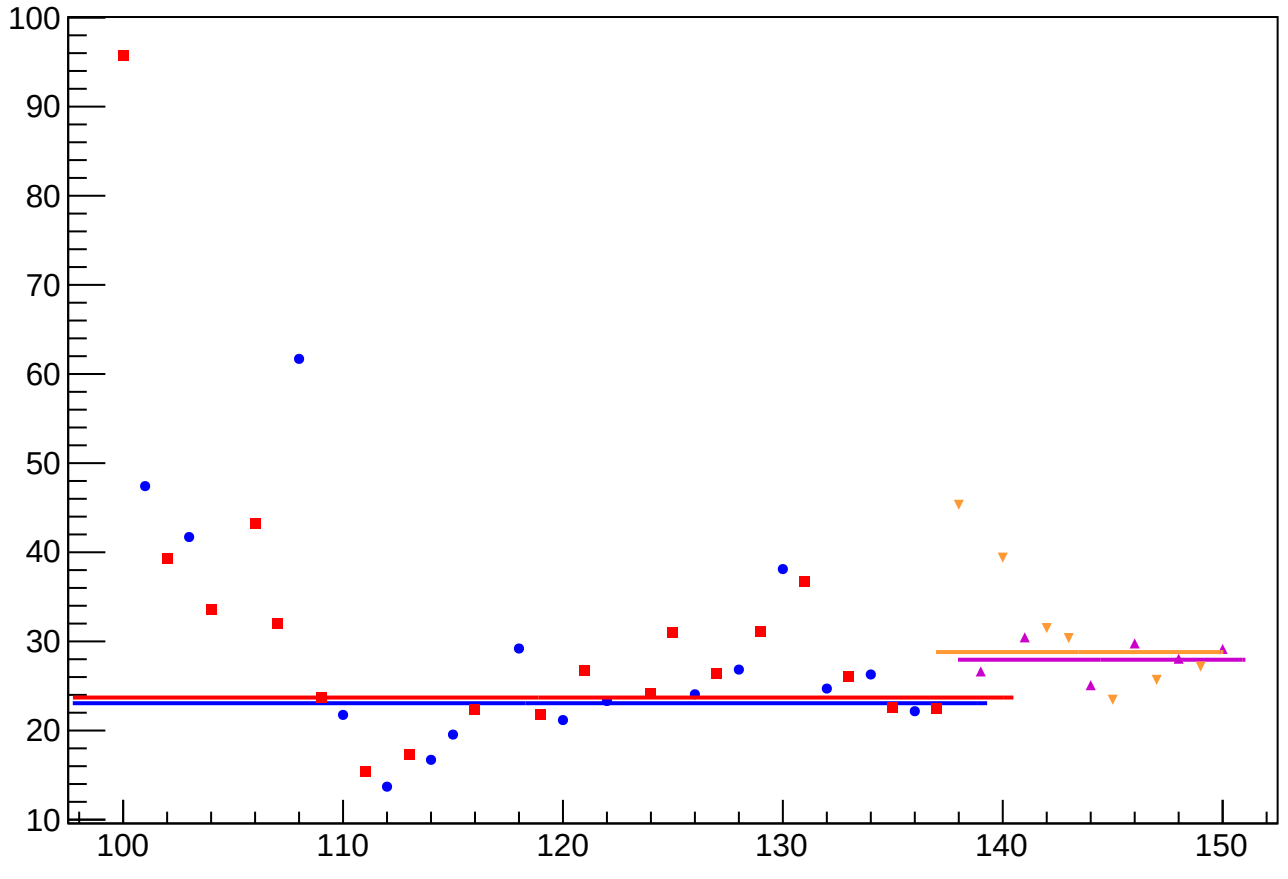
Left: 0.006+/-0.009 $\chi^2$/NDF: 15.8/12

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.020+/-0.008 $\chi^2$/NDF:24.4/21

Out: 0.008+/-0.008 $\chi^2$/NDF:28.1/25

All: -0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 28.805+/-0.009 $\chi^2$/NDF:412495.1/6

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.945+/-0.009 $\chi^2$/NDF:45136.3/5

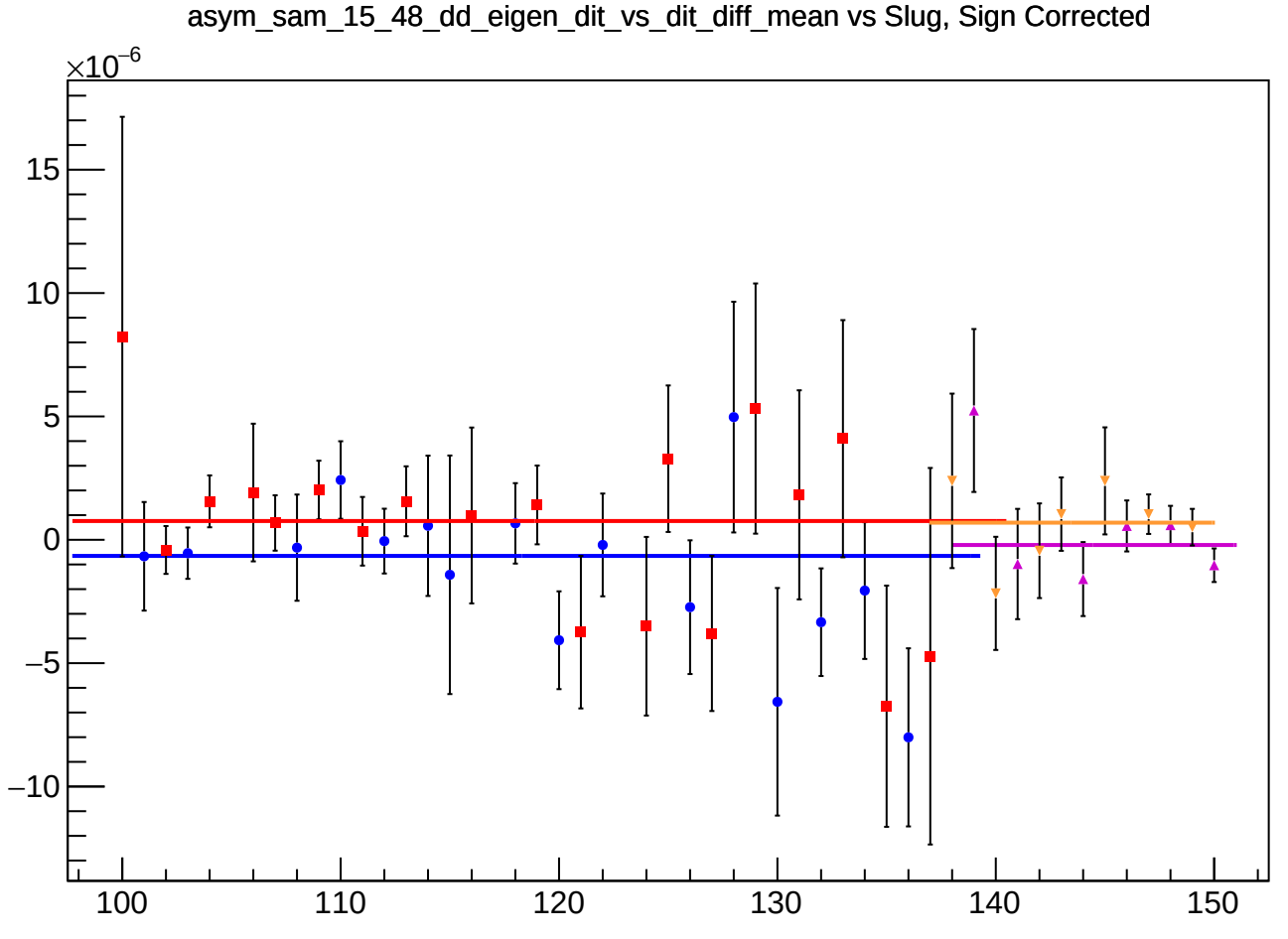
Left: 28.363+/-0.006 $\chi^2$/NDF: 462122.7/12

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 24.798+/-0.005 $\chi^2$/NDF:1801204.0/21

Out: 25.425+/-0.005 $\chi^2$/NDF:1704573.5/25

All: 25.111+/-0.004 $\chi^2$/NDF: 3512651.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.8/5

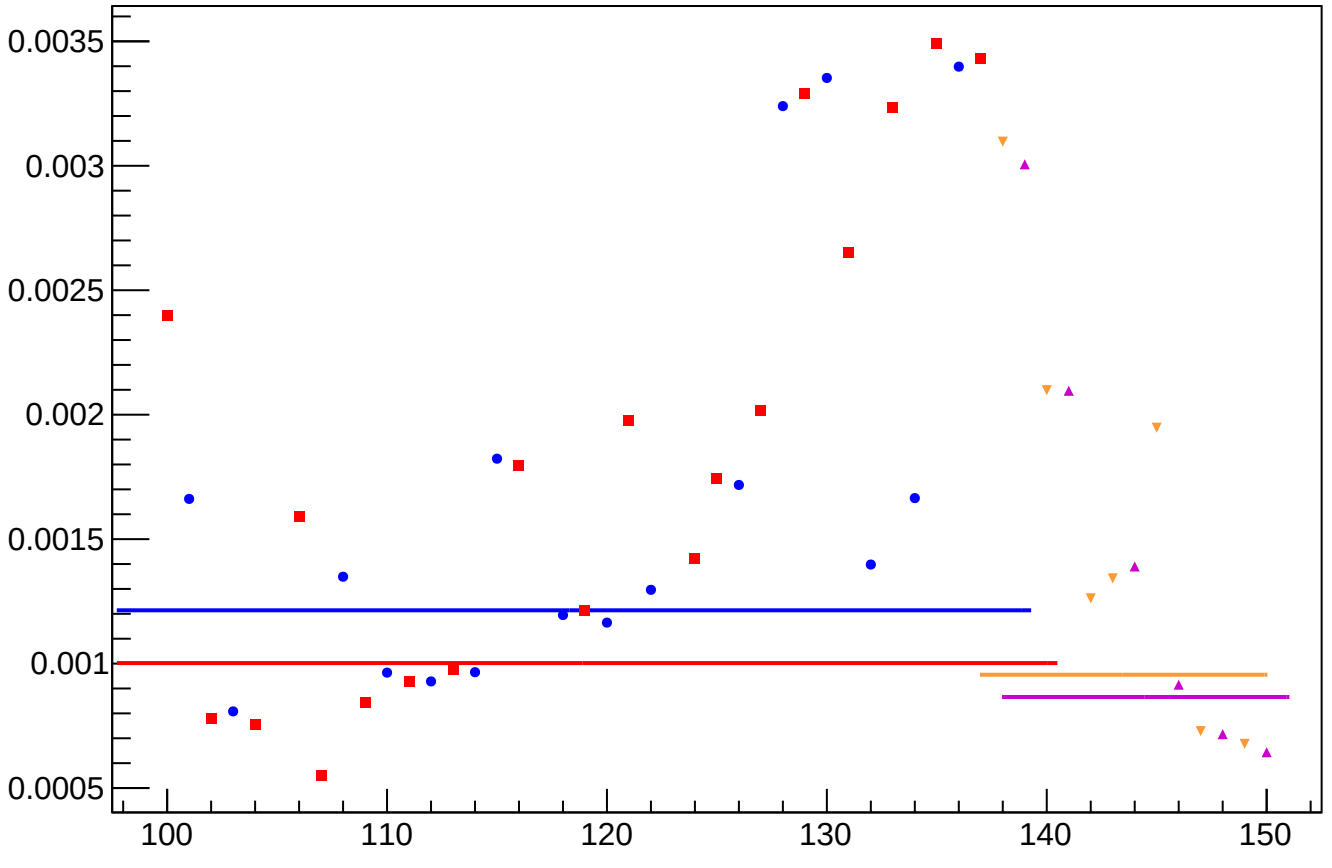
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.9/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:24.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:18.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 49.3/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2267402.2/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2276797.8/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3277225.7/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1980915.3/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 4297562.0/12

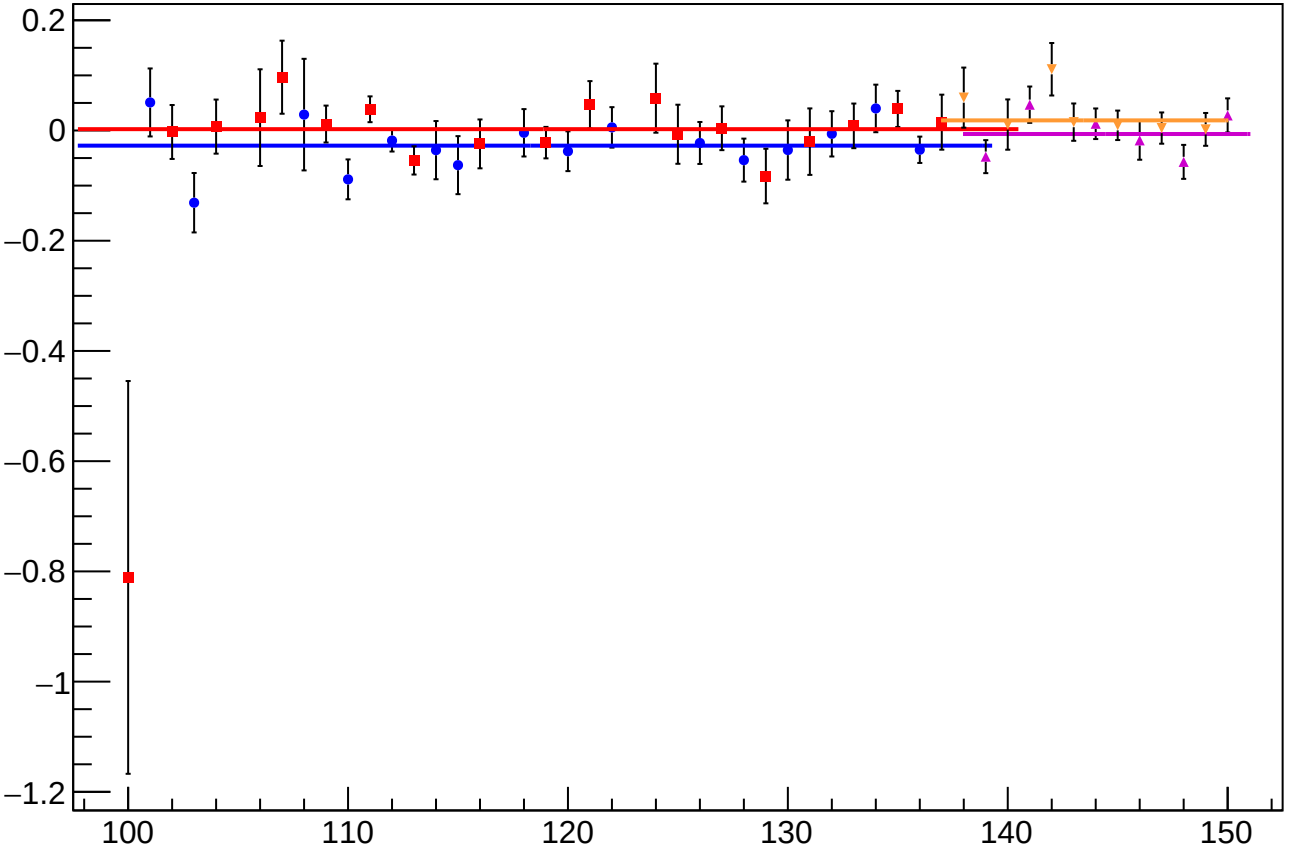
Right: 0.001+/-0.000 $\chi^2$/NDF: 5755876.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:4809226.0/21

Out: 0.001+/-0.000 $\chi^2$/NDF:5565208.0/25

All: 0.001+/-0.000 $\chi^2$/NDF: 10384478.2/47

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.018+/-0.013 $\chi^2$/NDF:5.1/6

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.006+/-0.013 $\chi^2$/NDF:8.9/5

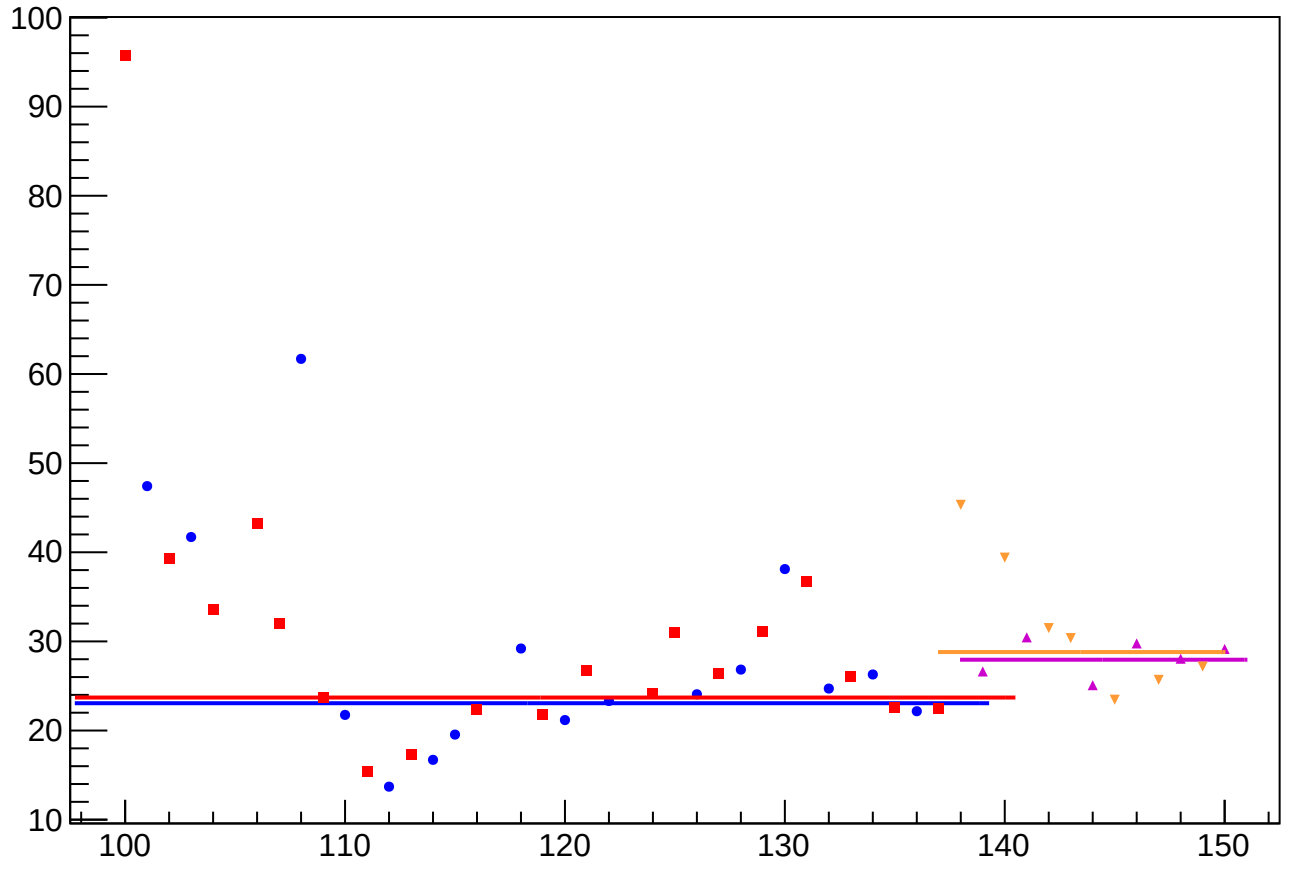
Left: 0.006+/-0.009 $\chi^2$/NDF: 15.8/12

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.020+/-0.008 $\chi^2$/NDF:24.4/21

Out: 0.008+/-0.008 $\chi^2$/NDF:28.1/25

All: -0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 23.065+/-0.007 $\chi^2$/NDF: 1564493.0/15

Left Out: 28.806+/-0.009 $\chi^2$/NDF:412458.3/6

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088531.8/18

Left In: 27.945+/-0.009 $\chi^2$/NDF:45137.3/5

Left: 28.363+/-0.006 $\chi^2$/NDF: 462089.7/12

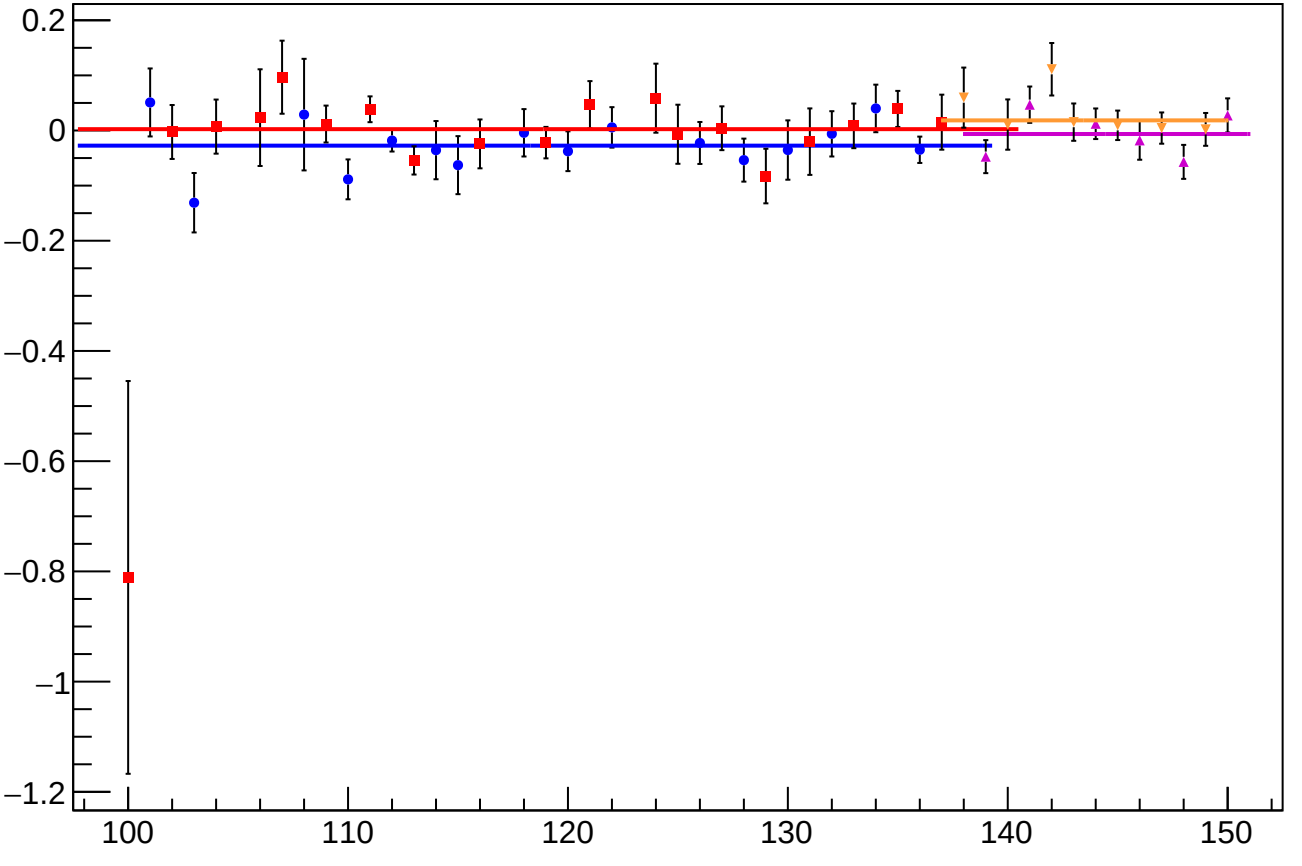
Right: 23.387+/-0.005 $\chi^2$/NDF: 2657668.5/34

In: 24.798+/-0.005 $\chi^2$/NDF:1801233.0/21

Out: 25.424+/-0.005 $\chi^2$/NDF:1704611.1/25

All: 25.110+/-0.004 $\chi^2$/NDF: 3512719.2/47

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.018+/-0.013 $\chi^2$/NDF:5.1/6

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.006+/-0.013 $\chi^2$/NDF:8.9/5

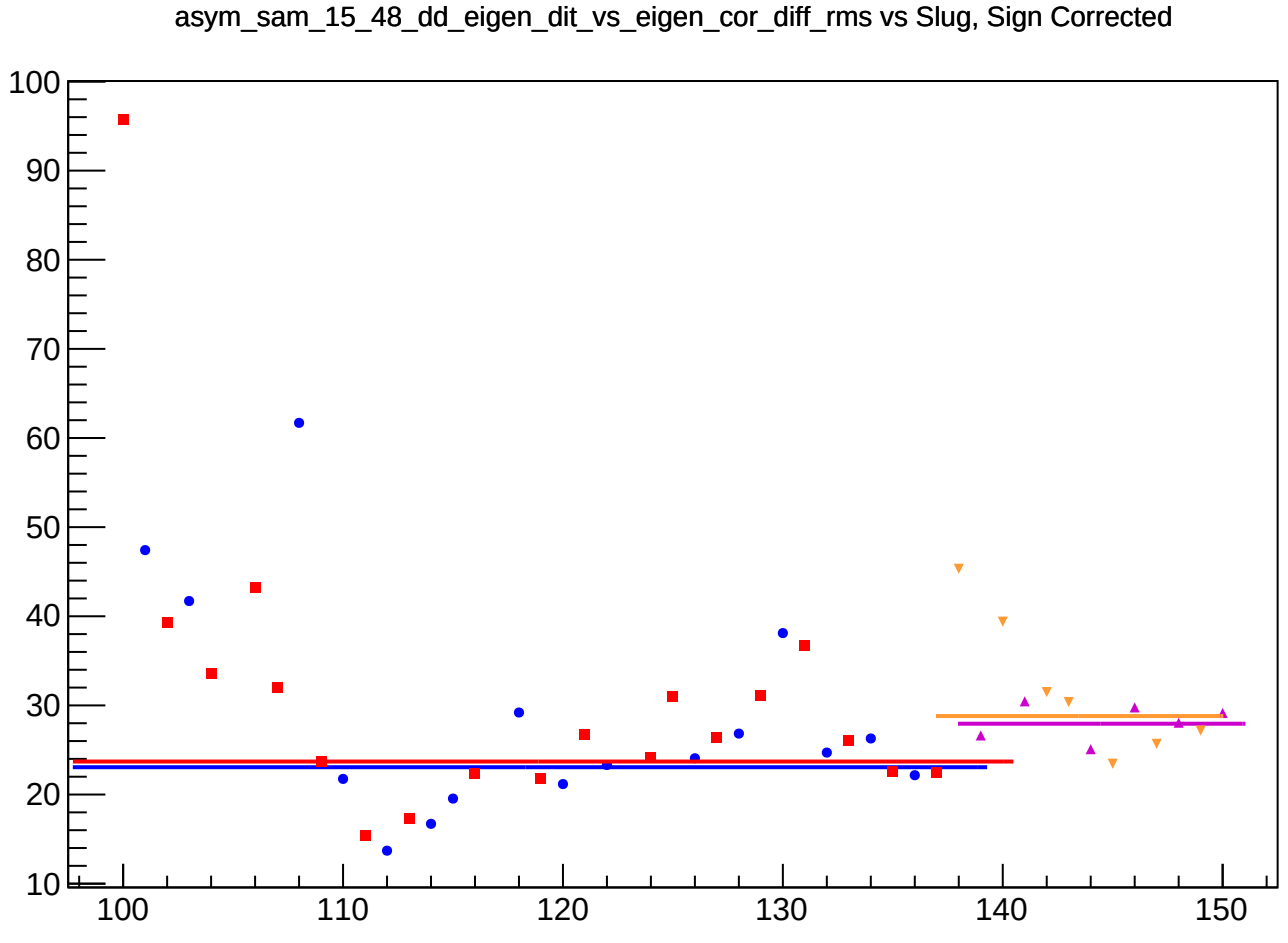
Left: 0.006+/-0.009 $\chi^2$/NDF: 15.8/12

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.020+/-0.008 $\chi^2$/NDF:24.4/21

Out: 0.008+/-0.008 $\chi^2$/NDF:28.1/25

All: -0.006+/-0.005 $\chi^2$/NDF: 59.3/47




Right In: 23.065+/-0.007 $\chi^2$/NDF: 1564493.0/15

Left Out: 28.806+/-0.009 $\chi^2$/NDF:412458.3/6

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088531.8/18

Left In: 27.945+/-0.009 $\chi^2$/NDF:45137.3/5

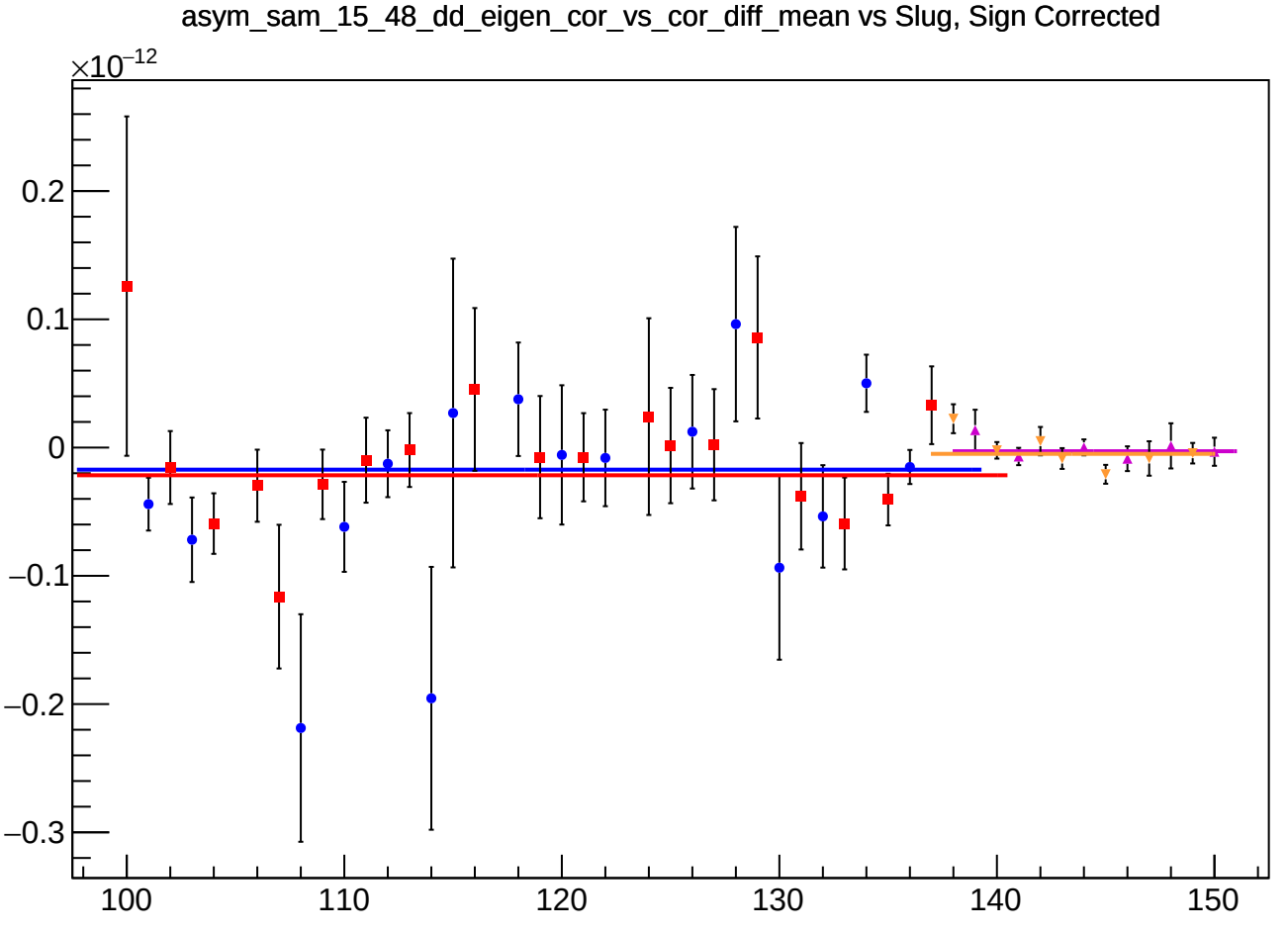
Left: 28.363+/-0.006 $\chi^2$/NDF: 462089.7/12

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657668.5/34

In: 24.798+/-0.005 $\chi^2$/NDF:1801233.0/21

Out: 25.424+/-0.005 $\chi^2$/NDF:1704611.1/25

All: 25.110+/-0.004 $\chi^2$/NDF: 3512719.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.1/5

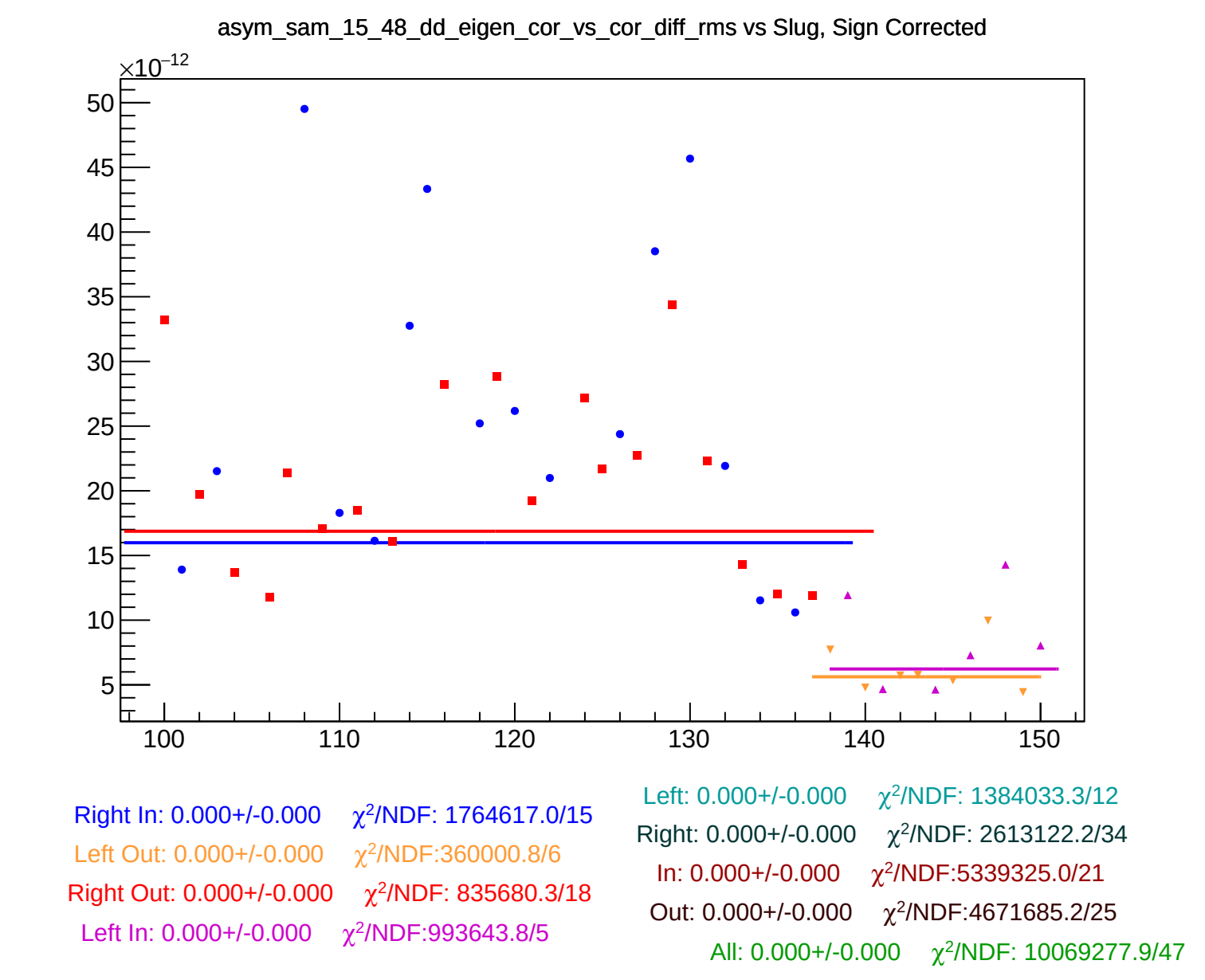
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.1/12

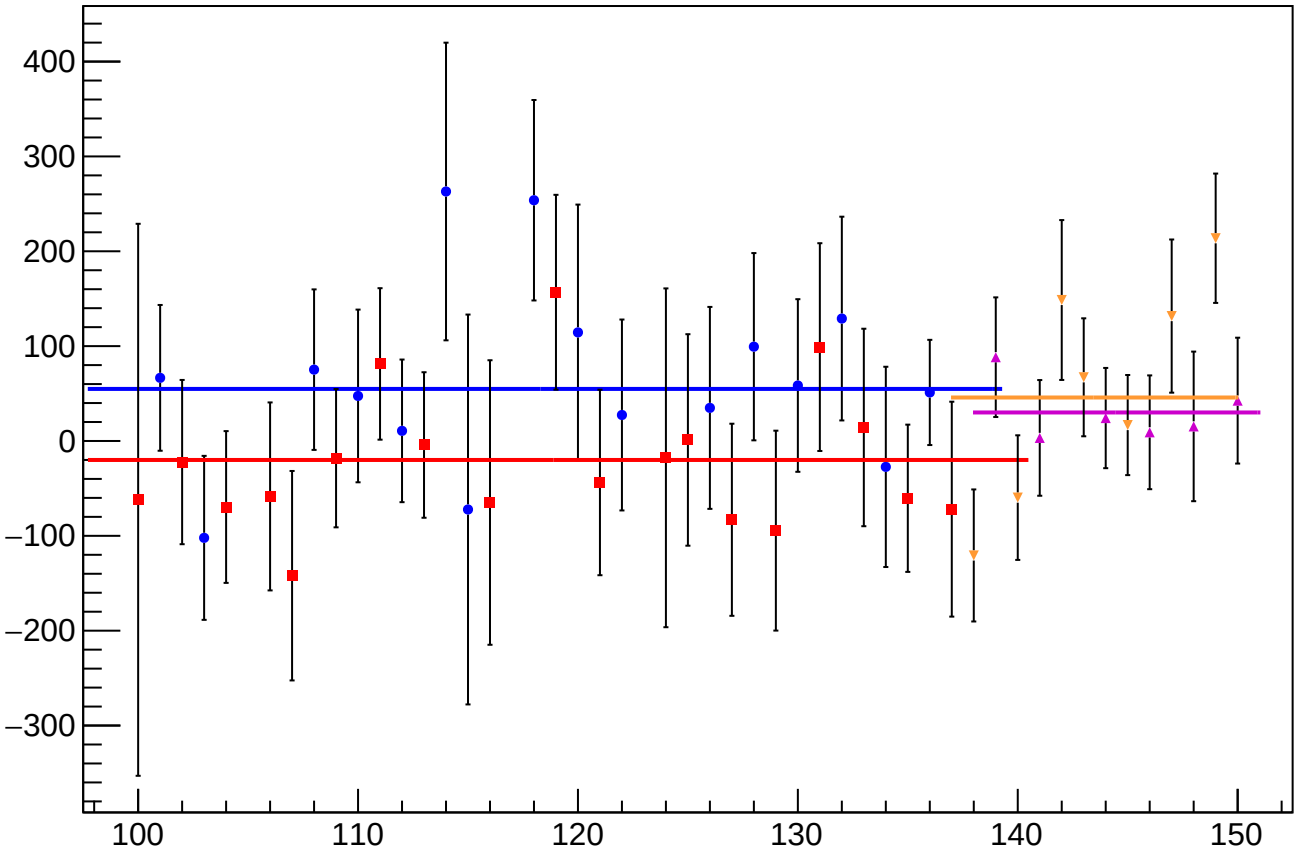
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:34.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:33.7/25

All: -0.000+/-0.000 $\chi^2$/NDF: 68.6/47


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
45
40
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1764617.0/15
Left Out: 0.000+/-0.000 χ²/NDF:360000.8/6
Right Out: 0.000+/-0.000 χ²/NDF: 835680.3/18
Left In: 0.000+/-0.000 χ²/NDF:993643.8/5
Left: 0.000+/-0.000 χ²/NDF: 1384033.3/12
Right: 0.000+/-0.000 χ²/NDF: 2613122.2/34
In: 0.000+/-0.000 χ²/NDF:5339325.0/21
Out: 0.000+/-0.000 χ²/NDF:4671685.2/25
All: 0.000+/-0.000 χ²/NDF: 10069277.9/47




Right In: 54.883+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 45.839+/-25.278 $\chi^2$/NDF:17.4/6

Right Out: -20.020+/-22.571 $\chi^2$/NDF: 9.2/18

Left In: 30.056+/-25.447 $\chi^2$/NDF:1.3/5

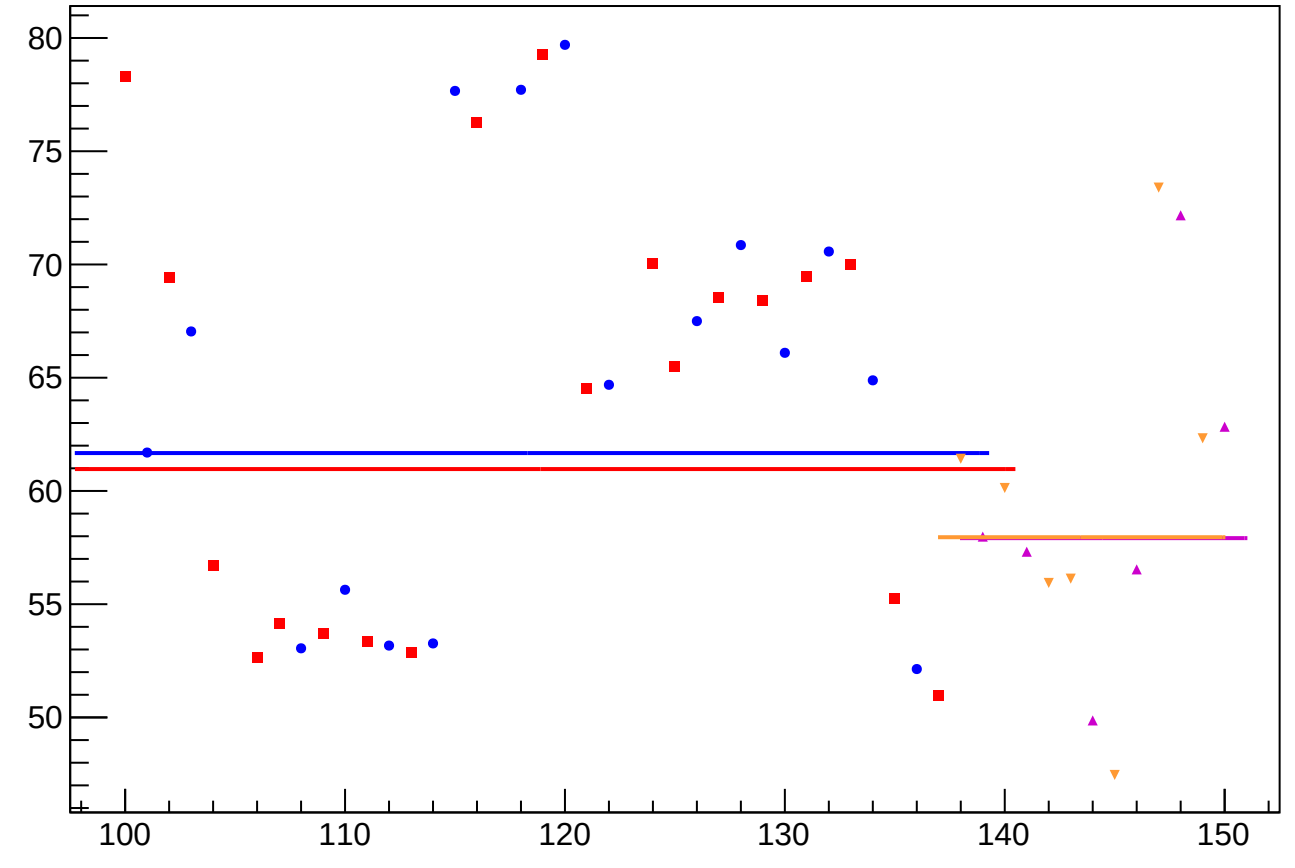
Left: 38.000+/-17.933 $\chi^2$/NDF: 18.9/12

Right: 16.437+/-16.171 $\chi^2$/NDF: 25.6/34

In: 43.625+/-17.136 $\chi^2$/NDF:12.8/21

Out: 9.196+/-16.836 $\chi^2$/NDF:30.4/25

All: 26.107+/-12.009 $\chi^2$/NDF: 45.3/47




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.1/15

Left Out: 57.957+/-0.018 $\chi^2$/NDF:170455.2/6

Right Out: 60.967+/-0.016 $\chi^2$/NDF: 284183.4/18

Left In: 57.917+/-0.018 $\chi^2$/NDF:124004.0/5

Left: 57.937+/-0.013 $\chi^2$/NDF: 294461.8/12

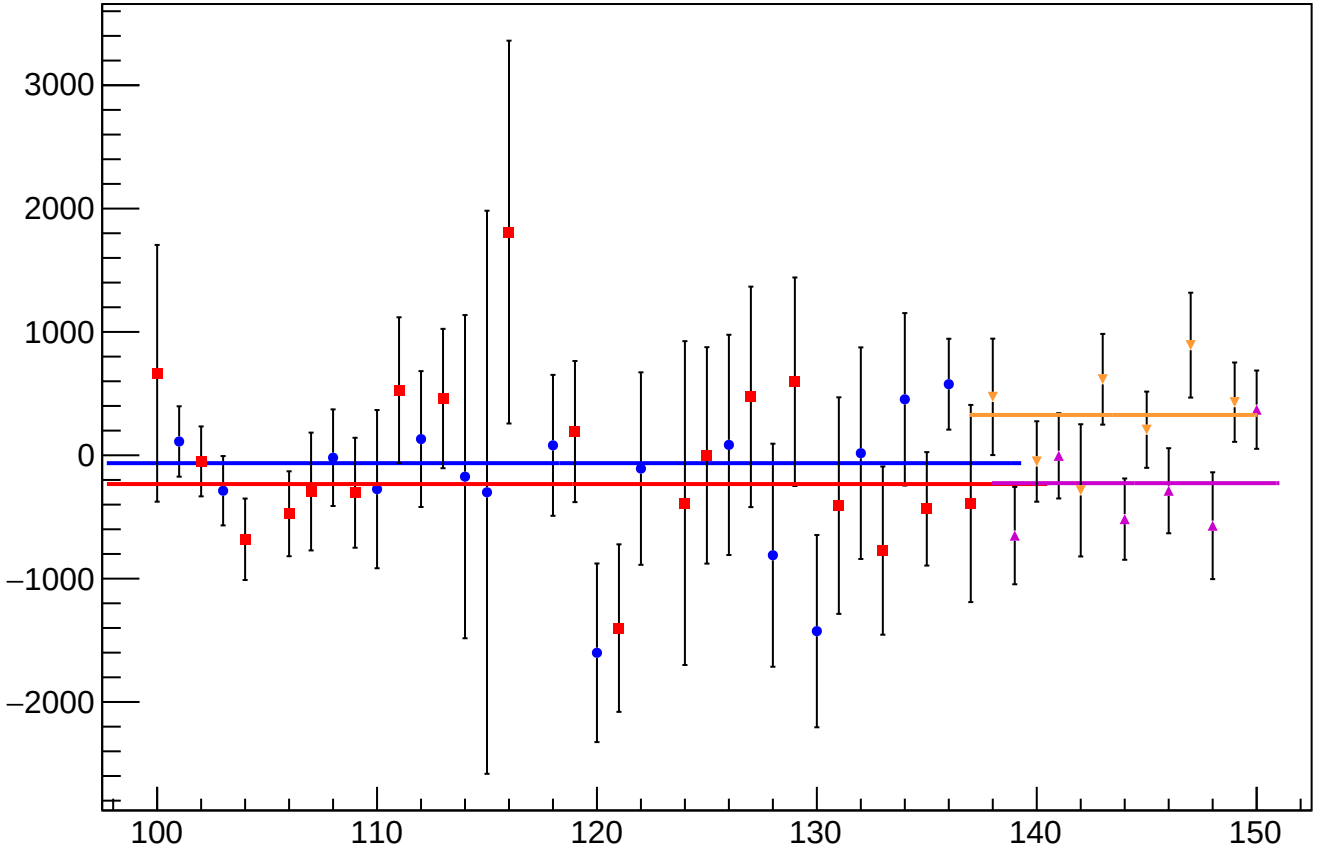
Right: 61.310+/-0.011 $\chi^2$/NDF: 552244.9/34

In: 59.970+/-0.012 $\chi^2$/NDF:414928.7/21

Out: 59.632+/-0.012 $\chi^2$/NDF:470410.4/25

All: 59.798+/-0.008 $\chi^2$/NDF: 885735.4/47

asym_sam_37_48_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -63.834+/-129.674 $\chi^2$/NDF: 13.2/15

Left Out: 326.972+/-140.792 $\chi^2$/NDF:5.4/6

Right Out: -233.206+/-122.791 $\chi^2$/NDF: 14.5/18

Left In: -225.939+/-144.829 $\chi^2$/NDF:6.5/5

Left: 58.329+/-100.952 $\chi^2$/NDF: 19.4/12

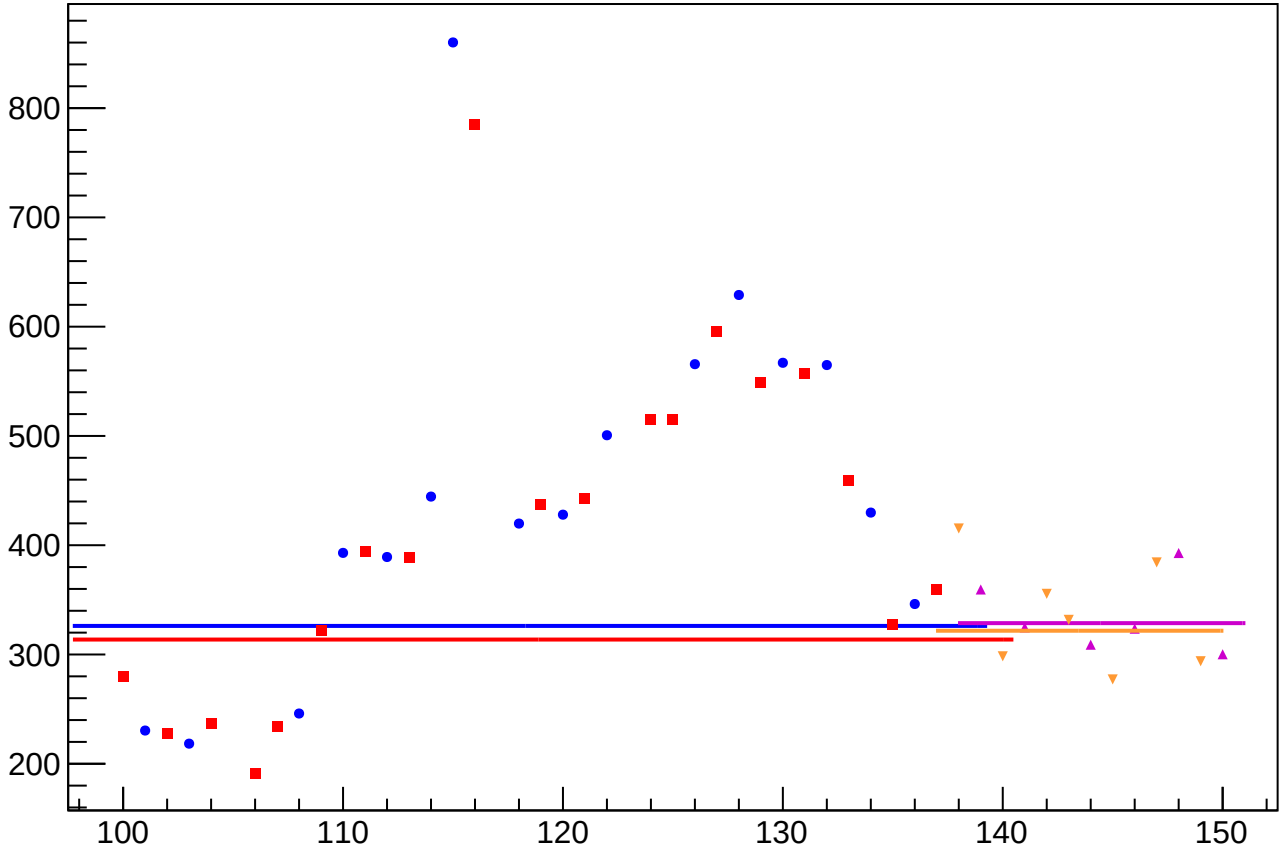
Right: -153.135+/-89.161 $\chi^2$/NDF: 28.6/34

In: -135.964+/-96.609 $\chi^2$/NDF:20.4/21

Out: 8.803+/-92.541 $\chi^2$/NDF:28.9/25

All: -60.468+/-66.828 $\chi^2$/NDF: 50.5/47

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 326.147+/-0.092 $\chi^2$/NDF: 1733995.5/15

Left Out: 321.747+/-0.100 $\chi^2$/NDF:198306.8/6

Right Out: 313.672+/-0.087 $\chi^2$/NDF: 1787347.3/18

Left In: 328.694+/-0.102 $\chi^2$/NDF:80109.2/5

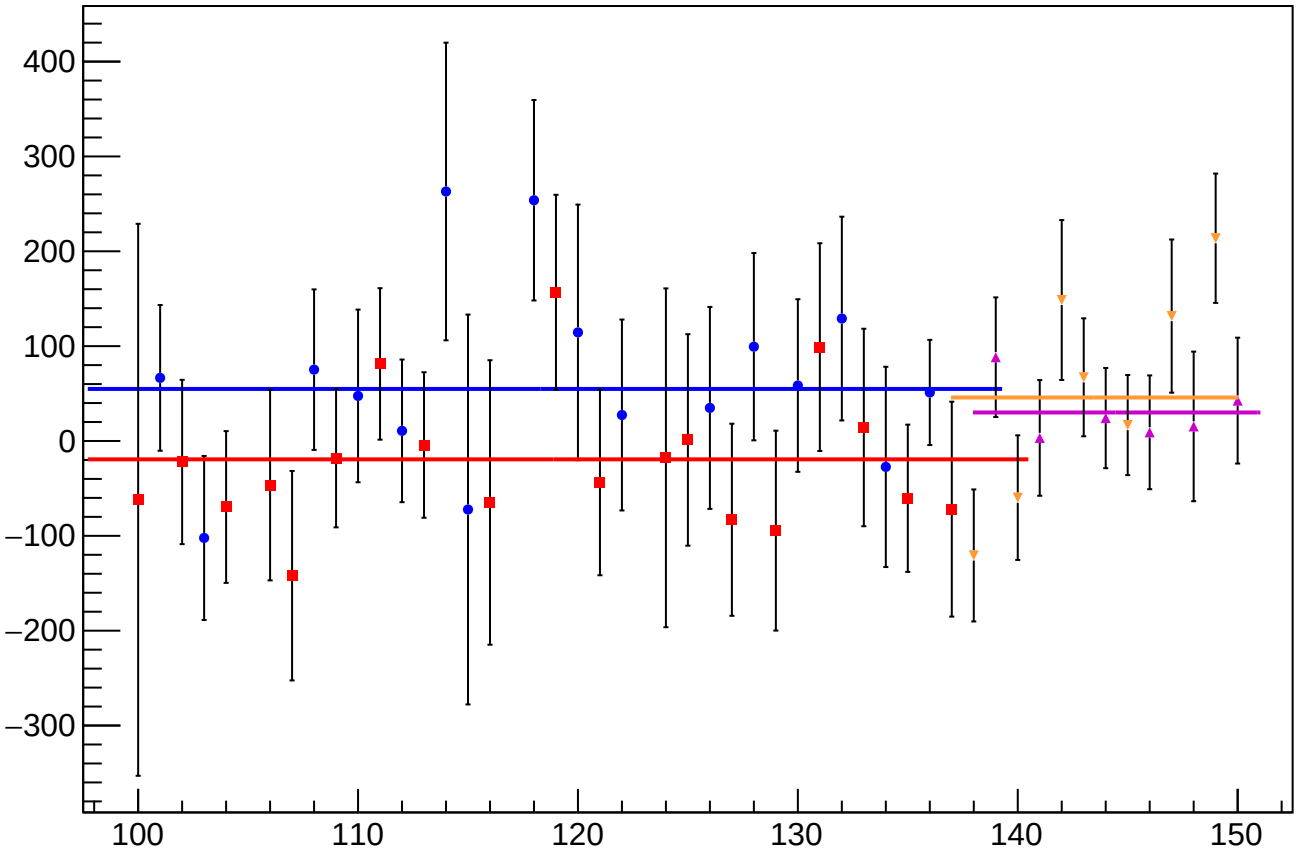
Left: 325.122+/-0.071 $\chi^2$/NDF: 280782.1/12

Right: 319.570+/-0.063 $\chi^2$/NDF: 3531102.5/34

In: 327.281+/-0.068 $\chi^2$/NDF:1814447.9/21

Out: 317.161+/-0.065 $\chi^2$/NDF:1989390.6/25

All: 322.003+/-0.047 $\chi^2$/NDF: 3815283.5/47




Right In: 54.877+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 45.834+/-25.278 $\chi^2$/NDF:17.4/6

Right Out: -19.352+/-22.588 $\chi^2$/NDF: 9.2/18

Left In: 30.053+/-25.447 $\chi^2$/NDF:1.3/5

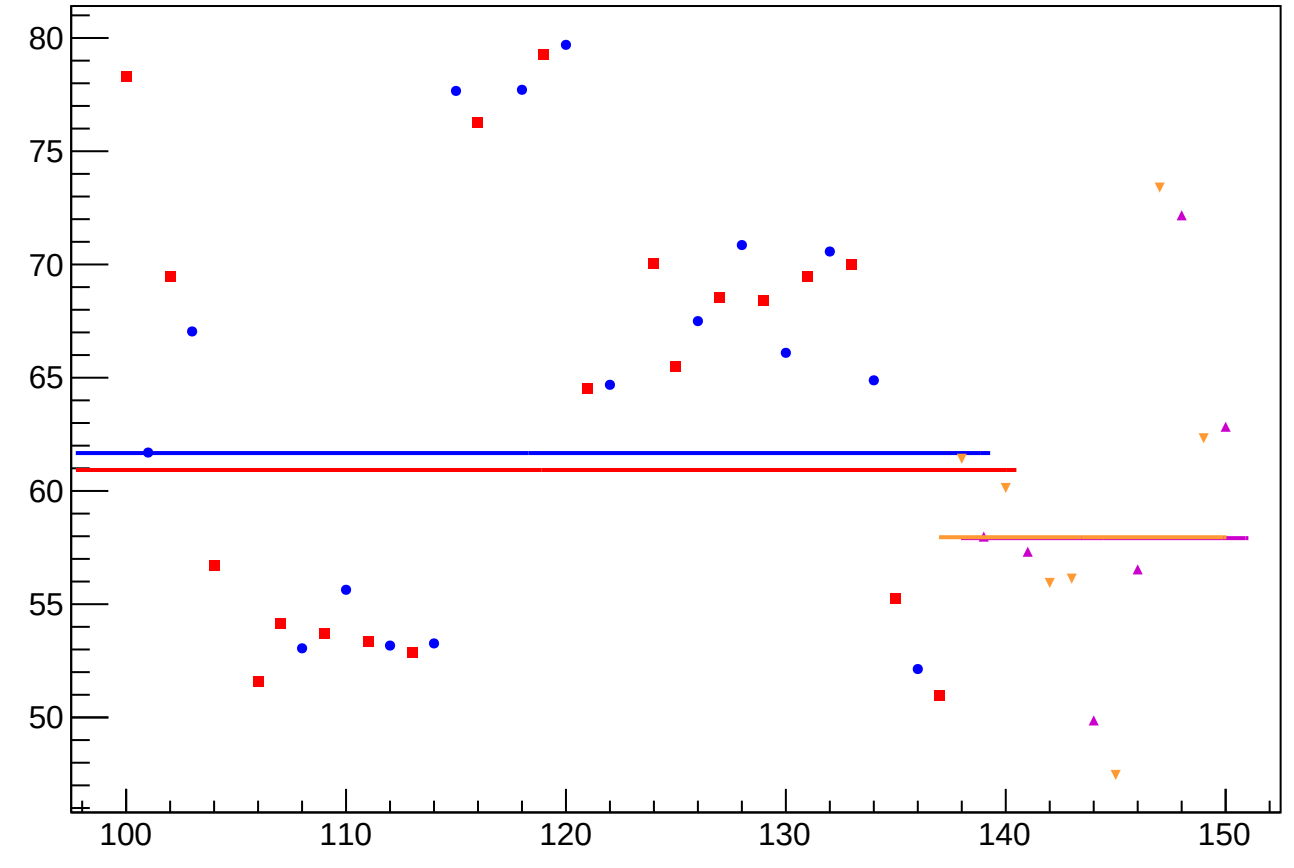
Left: 37.996+/-17.933 $\chi^2$/NDF: 18.9/12

Right: 16.804+/-16.177 $\chi^2$/NDF: 25.4/34

In: 43.620+/-17.136 $\chi^2$/NDF:12.8/21

Out: 9.589+/-16.843 $\chi^2$/NDF:30.3/25

All: 26.311+/-12.012 $\chi^2$/NDF: 45.1/47




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 57.957+/-0.018 $\chi^2$/NDF:170455.2/6

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 57.917+/-0.018 $\chi^2$/NDF:124004.0/5

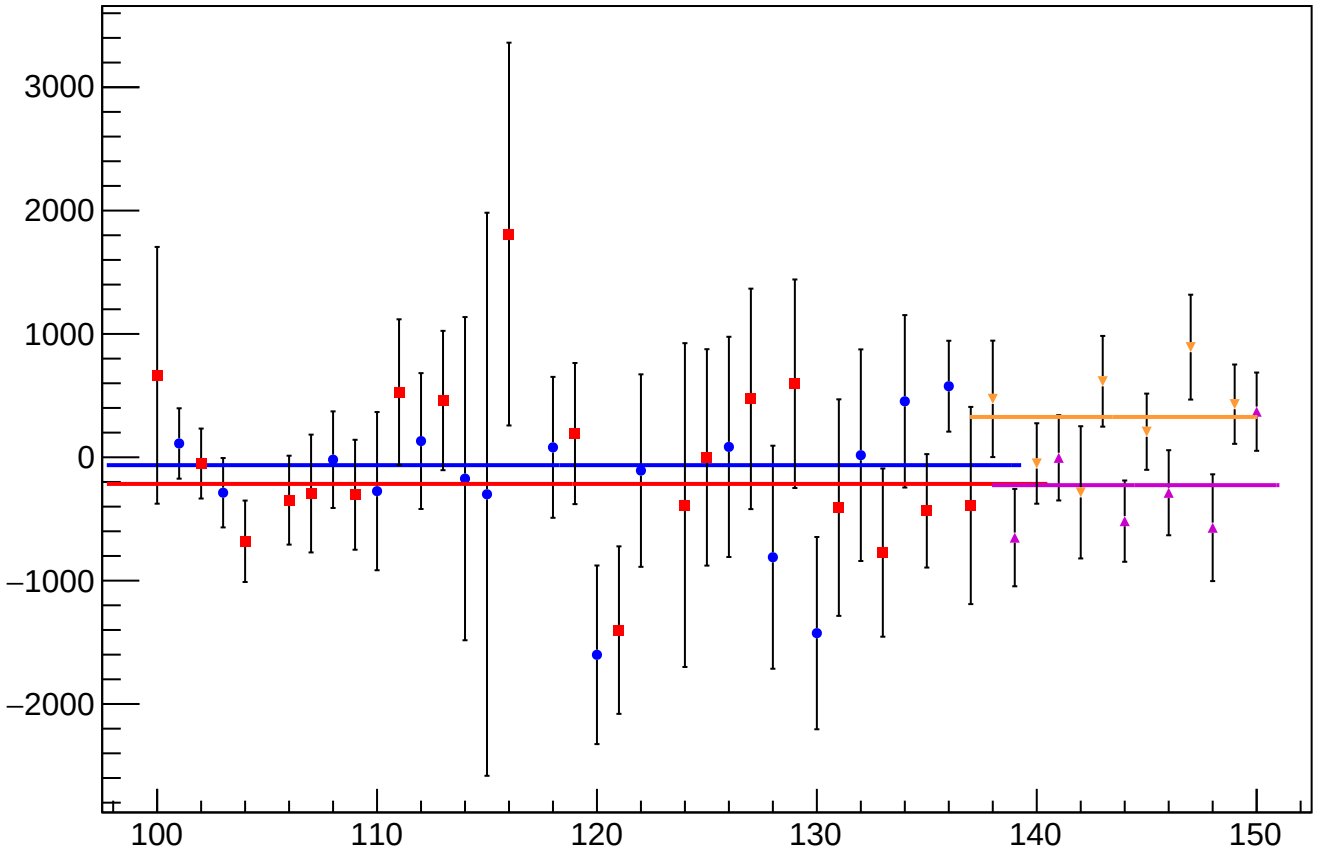
Left: 57.937+/-0.013 $\chi^2$/NDF: 294461.8/12

Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 59.970+/-0.012 $\chi^2$/NDF:414929.0/21

Out: 59.608+/-0.012 $\chi^2$/NDF:473371.9/25

All: 59.786+/-0.008 $\chi^2$/NDF: 888754.6/47




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 326.970+/-140.792 $\chi^2$/NDF:5.4/6

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -225.940+/-144.829 $\chi^2$/NDF:6.5/5

Left: 58.328+/-100.952 $\chi^2$/NDF: 19.4/12

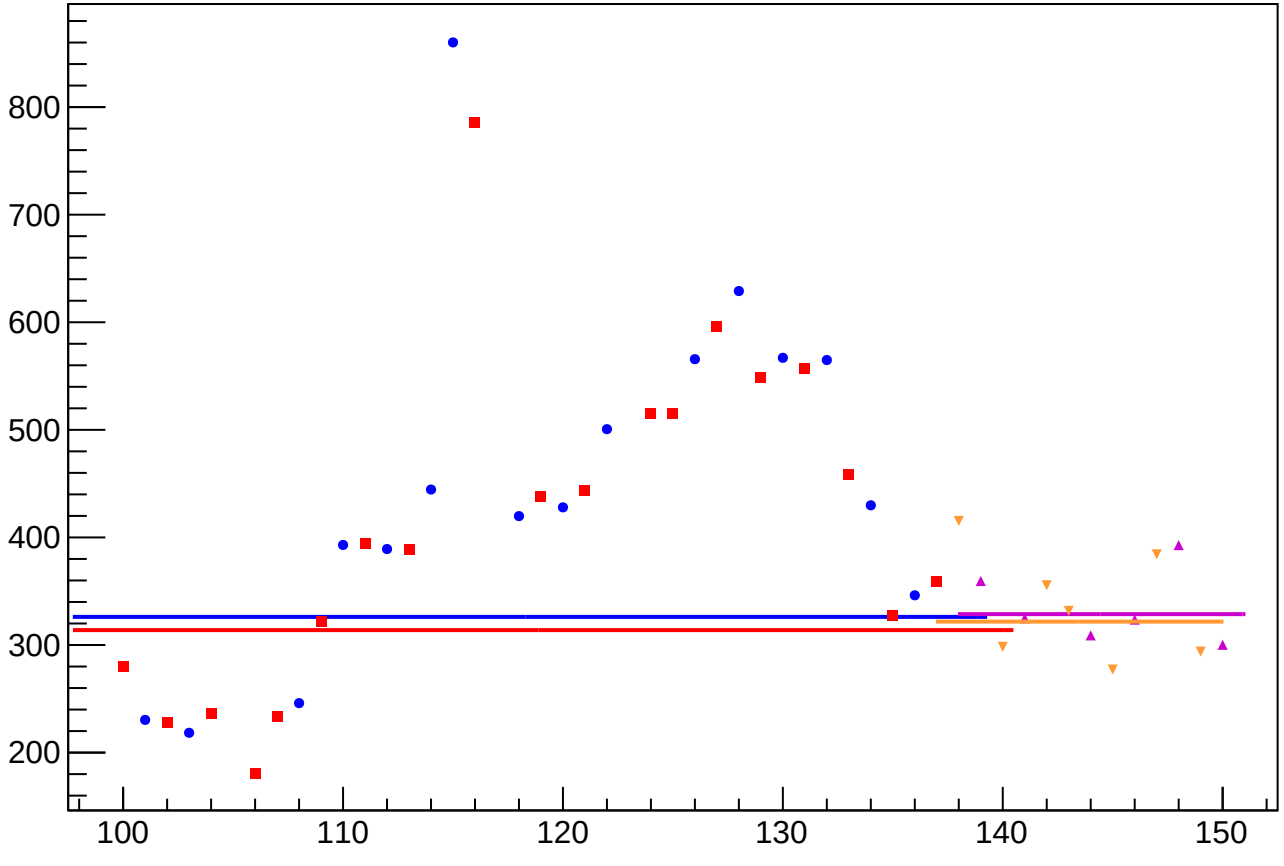
Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -135.957+/-96.609 $\chi^2$/NDF:20.4/21

Out: 20.142+/-92.839 $\chi^2$/NDF:27.9/25

All: -54.803+/-66.940 $\chi^2$/NDF: 49.7/47

asym_sam_37_48_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 326.150+/-0.092 $\chi^2$/NDF: 1733934.7/15

Left Out: 321.747+/-0.100 $\chi^2$/NDF:198307.3/6

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 328.694+/-0.102 $\chi^2$/NDF:80108.1/5

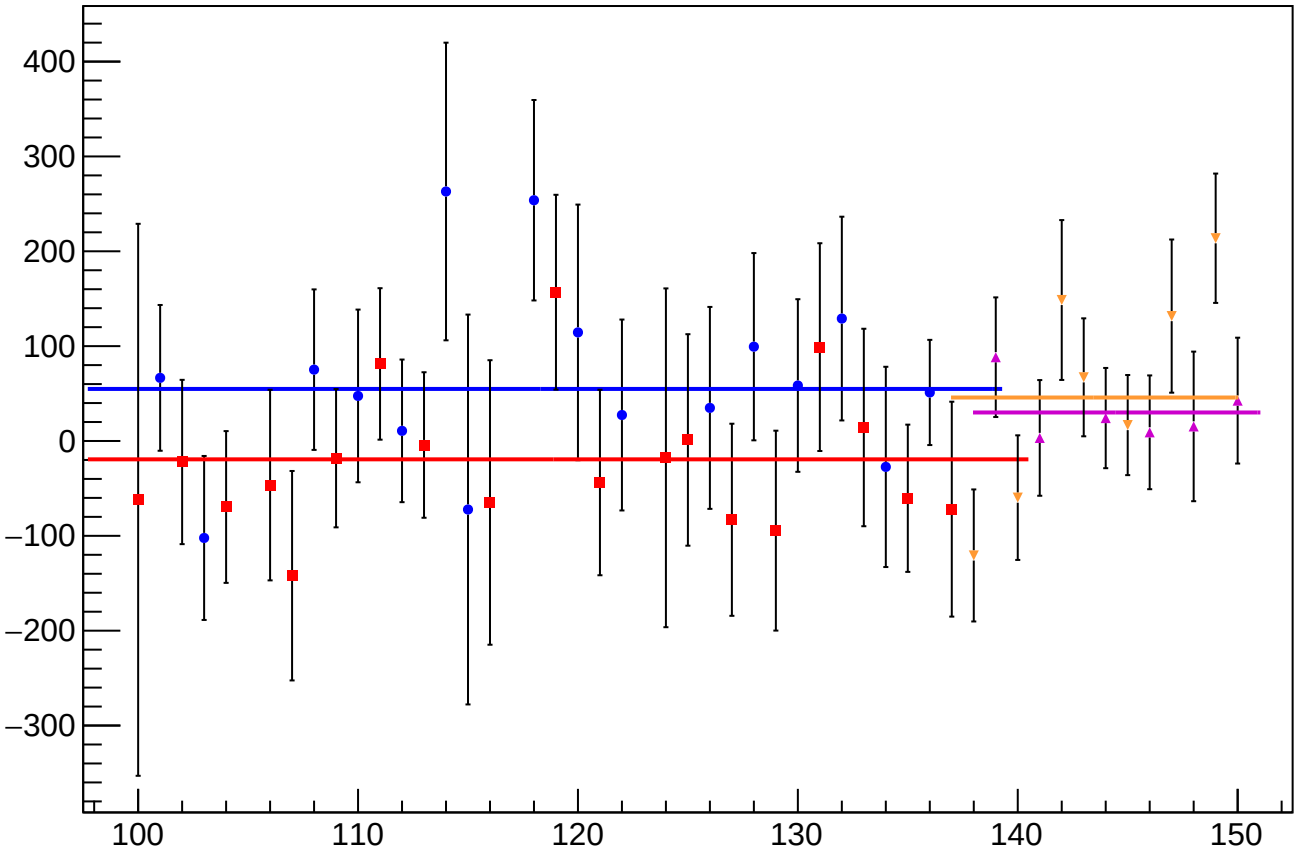
Left: 325.122+/-0.071 $\chi^2$/NDF: 280781.6/12

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 327.282+/-0.068 $\chi^2$/NDF:1814385.3/21

Out: 317.290+/-0.066 $\chi^2$/NDF:2007633.0/25

All: 322.087+/-0.047 $\chi^2$/NDF: 3833142.1/47




Right In: 54.877+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 45.834+/-25.278 $\chi^2$/NDF:17.4/6

Right Out: -19.352+/-22.588 $\chi^2$/NDF: 9.2/18

Left In: 30.053+/-25.447 $\chi^2$/NDF:1.3/5

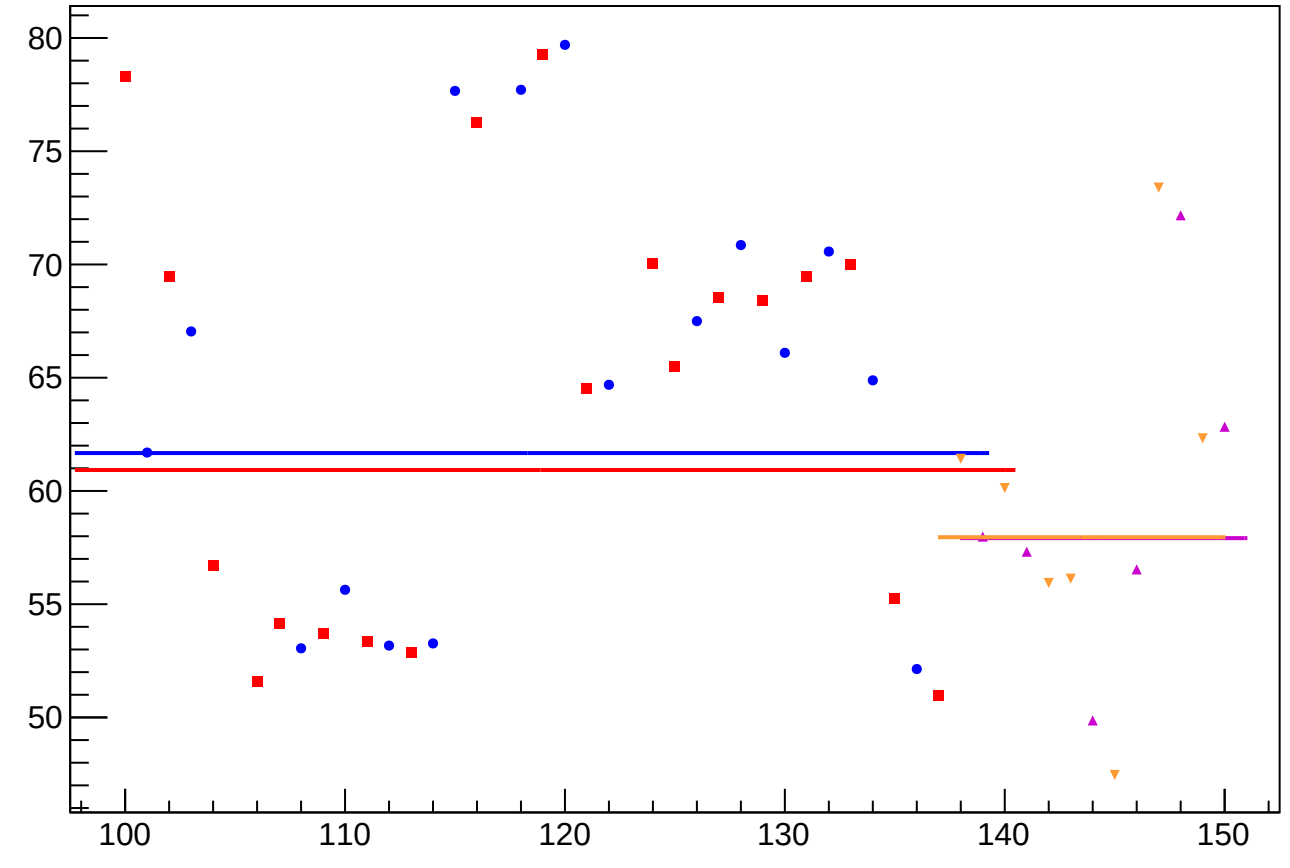
Left: 37.996+/-17.933 $\chi^2$/NDF: 18.9/12

Right: 16.804+/-16.177 $\chi^2$/NDF: 25.4/34

In: 43.620+/-17.136 $\chi^2$/NDF:12.8/21

Out: 9.589+/-16.843 $\chi^2$/NDF:30.3/25

All: 26.311+/-12.012 $\chi^2$/NDF: 45.1/47




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 57.957+/-0.018 $\chi^2$/NDF:170455.2/6

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 57.917+/-0.018 $\chi^2$/NDF:124004.0/5

Left: 57.937+/-0.013 $\chi^2$/NDF: 294461.8/12

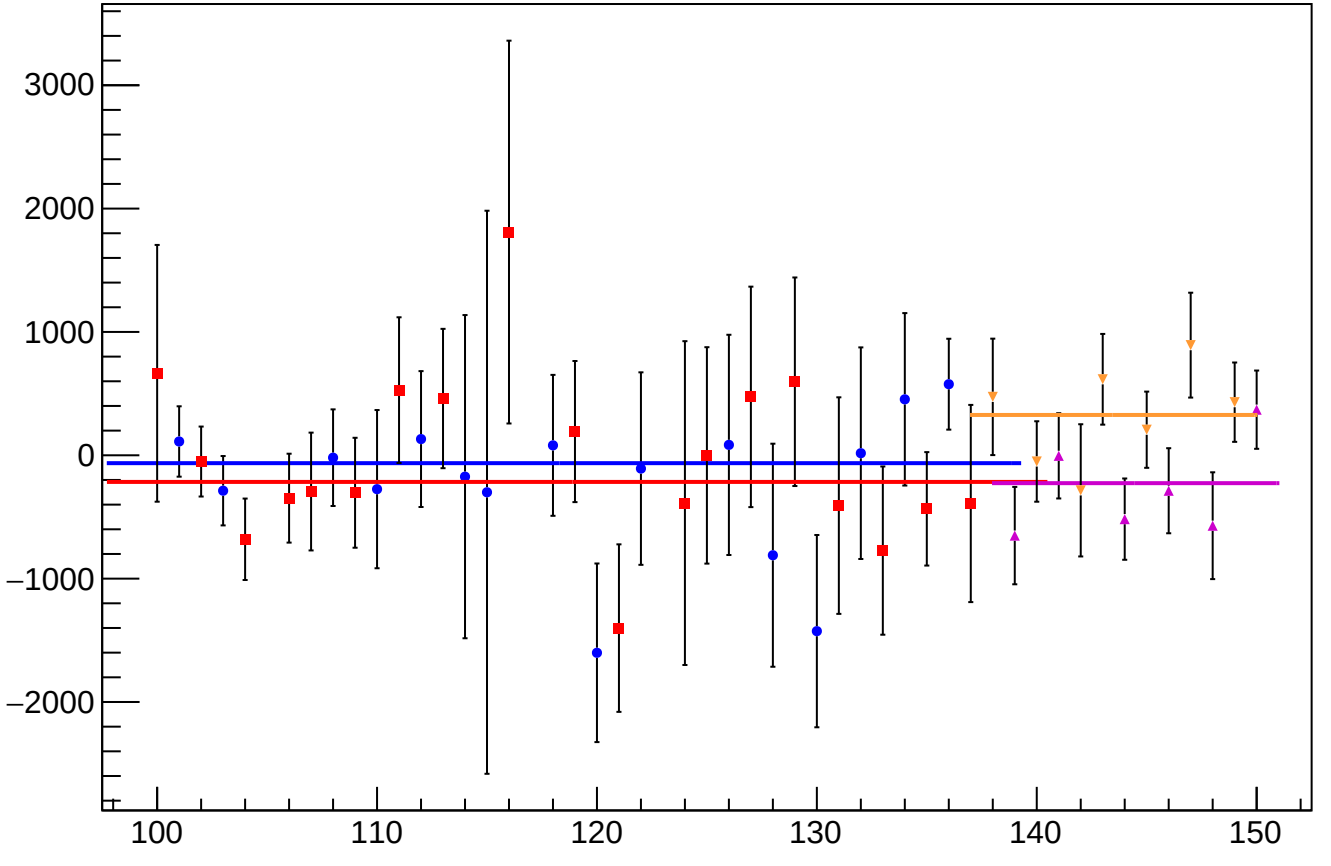
Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 59.970+/-0.012 $\chi^2$/NDF:414929.0/21

Out: 59.608+/-0.012 $\chi^2$/NDF:473371.9/25

All: 59.786+/-0.008 $\chi^2$/NDF: 888754.6/47

asym_sam_37_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 326.970+/-140.792 $\chi^2$/NDF:5.4/6

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -225.940+/-144.829 $\chi^2$/NDF:6.5/5

Left: 58.328+/-100.952 $\chi^2$/NDF: 19.4/12

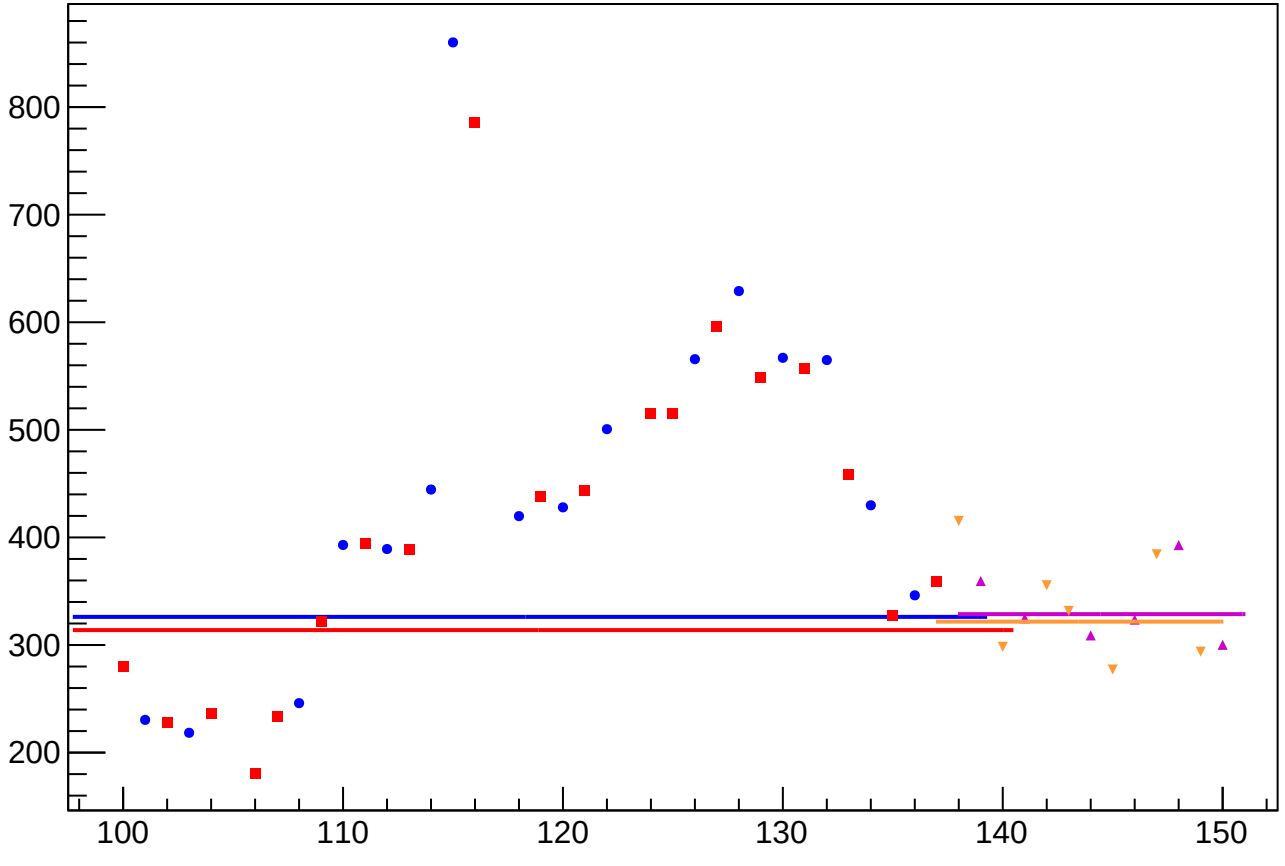
Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -135.957+/-96.609 $\chi^2$/NDF:20.4/21

Out: 20.142+/-92.839 $\chi^2$/NDF:27.9/25

All: -54.803+/-66.940 $\chi^2$/NDF: 49.7/47

asym_sam_37_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 326.150+/-0.092 $\chi^2$/NDF: 1733934.7/15

Left Out: 321.747+/-0.100 $\chi^2$/NDF:198307.3/6

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 328.694+/-0.102 $\chi^2$/NDF:80108.1/5

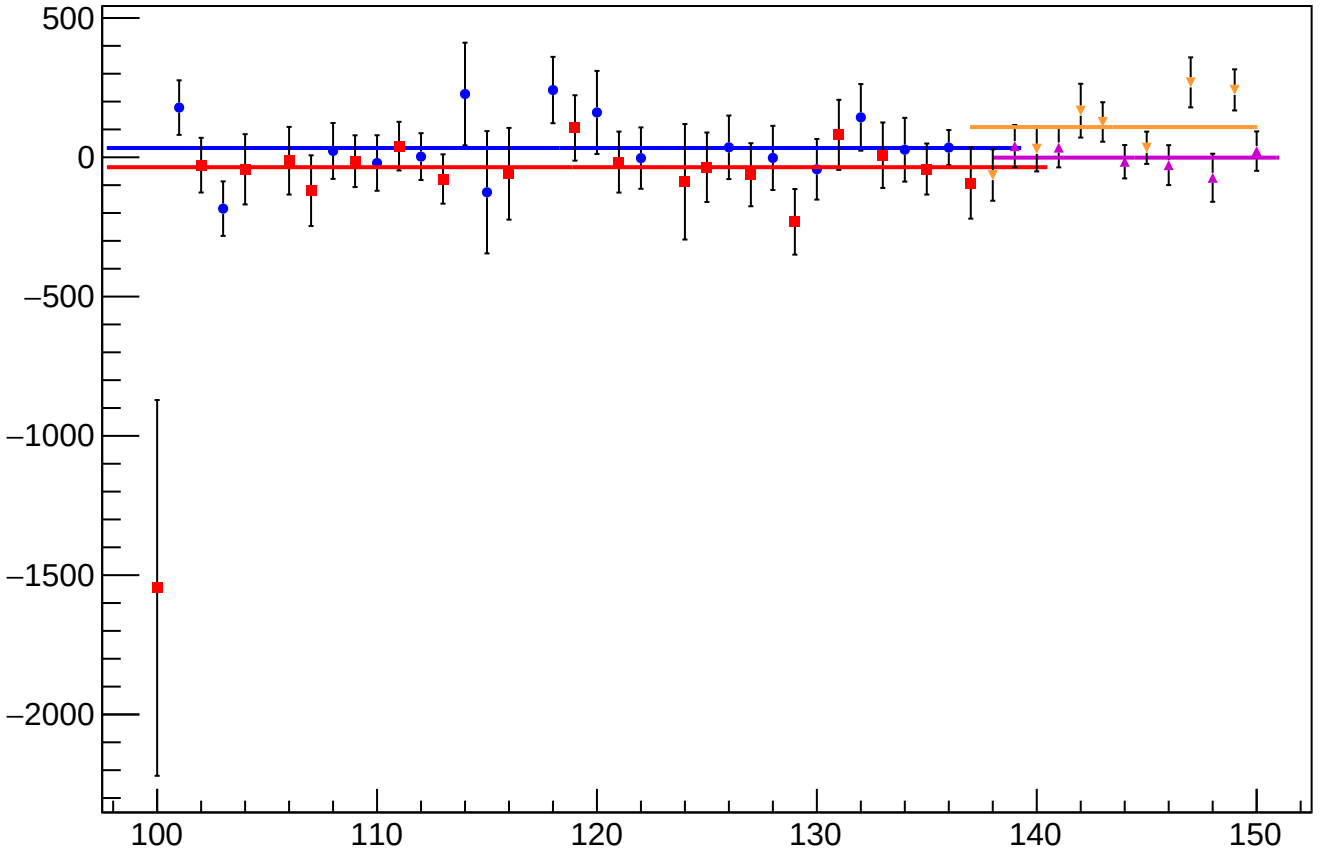
Left: 325.122+/-0.071 $\chi^2$/NDF: 280781.6/12

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 327.282+/-0.068 $\chi^2$/NDF:1814385.3/21

Out: 317.290+/-0.066 $\chi^2$/NDF:2007633.0/25

All: 322.087+/-0.047 $\chi^2$/NDF: 3833142.1/47




Right In: 33.399+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 108.491+/-29.085 $\chi^2$/NDF:13.0/6

Right Out: -35.576+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: -1.251+/-29.117 $\chi^2$/NDF:1.6/5

Left: 53.680+/-20.578 $\chi^2$/NDF: 21.7/12

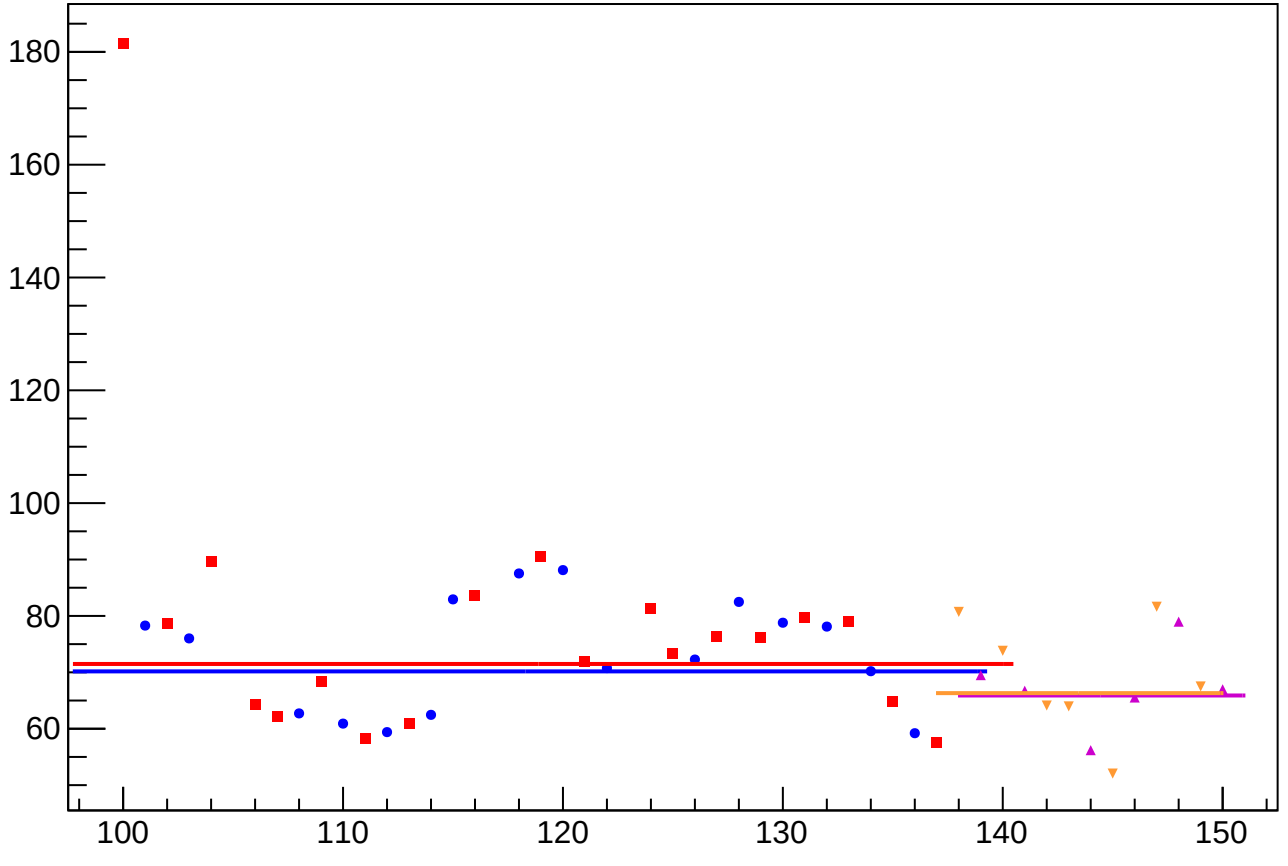
Right: -0.931+/-18.721 $\chi^2$/NDF: 30.0/34

In: 17.756+/-19.564 $\chi^2$/NDF:16.9/21

Out: 29.868+/-19.603 $\chi^2$/NDF:38.5/25

All: 23.800+/-13.848 $\chi^2$/NDF: 55.5/47

# dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269249.9/15

Left Out: 66.313+/-0.021 $\chi^2$/NDF:249277.9/6

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325715.0/18

Left In: 65.895+/-0.021 $\chi^2$/NDF:103781.2/5

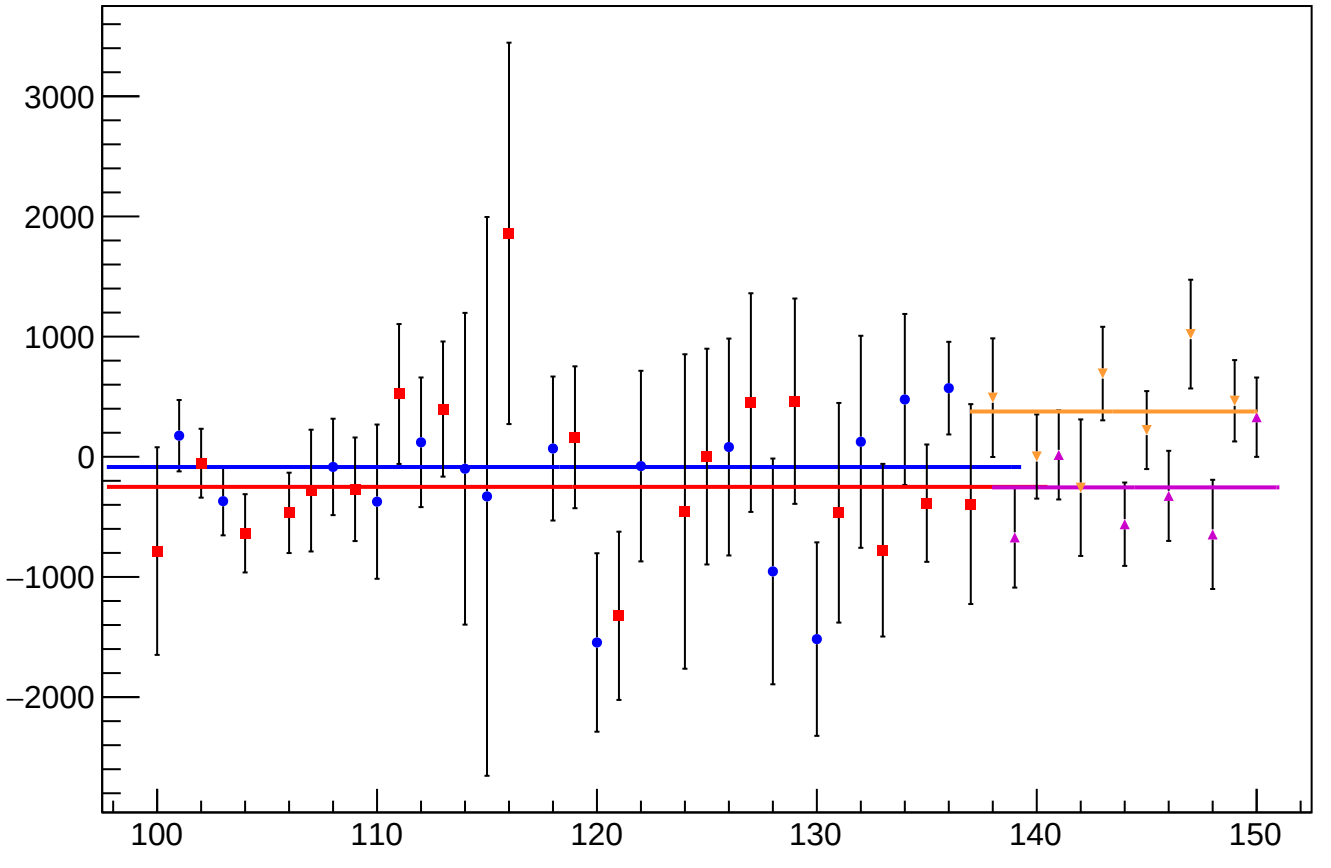
Left: 66.104+/-0.015 $\chi^2$/NDF: 353265.9/12

Right: 70.822+/-0.013 $\chi^2$/NDF: 597434.8/34

In: 68.239+/-0.014 $\chi^2$/NDF:396653.1/21

Out: 69.135+/-0.014 $\chi^2$/NDF:609477.1/25

All: 68.686+/-0.010 $\chi^2$/NDF: 1008224.1/47




Right In: -85.184+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 376.753+/-148.968 $\chi^2$/NDF:5.4/6

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -254.608+/-153.476 $\chi^2$/NDF:6.2/5

Left: 70.481+/-106.895 $\chi^2$/NDF: 20.3/12

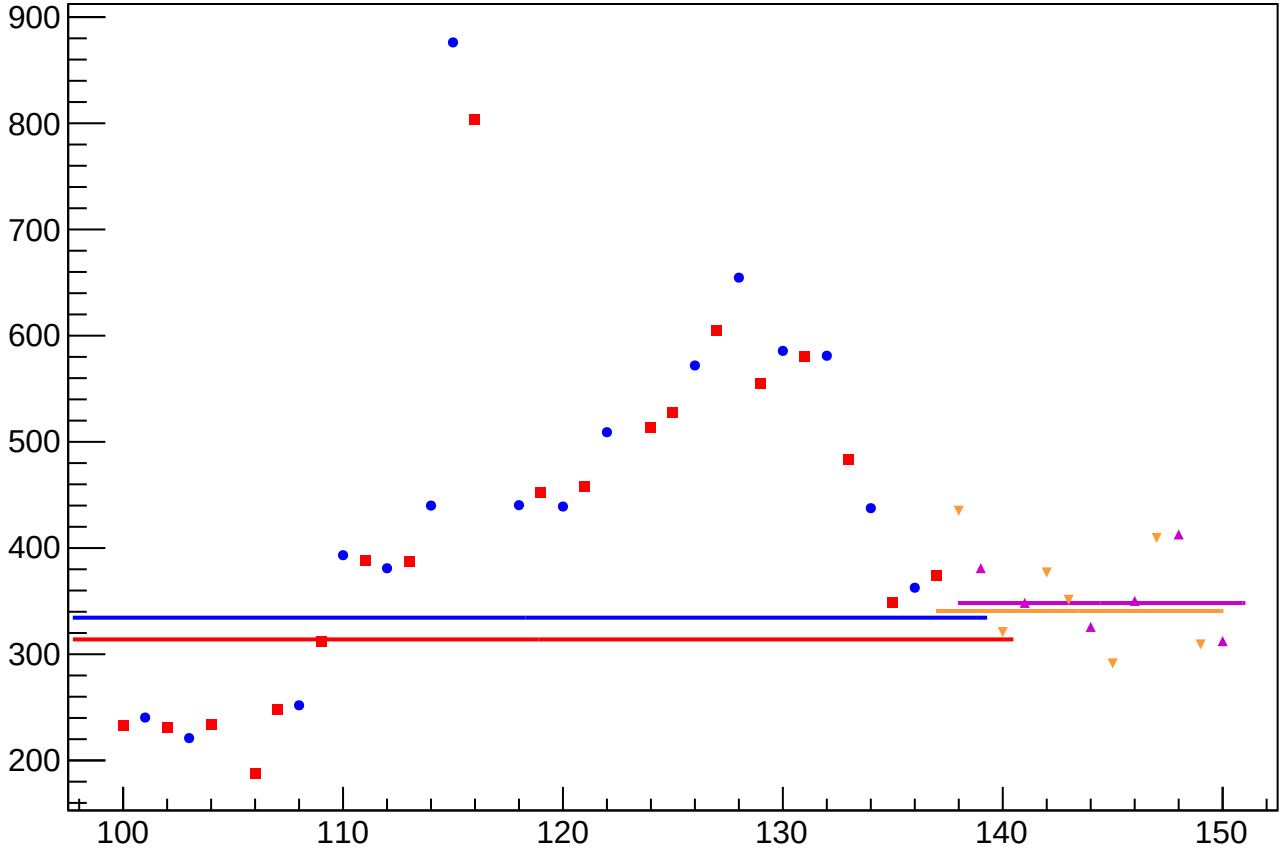
Right: -173.980+/-90.383 $\chi^2$/NDF: 27.0/34

In: -157.771+/-100.458 $\chi^2$/NDF:20.6/21

Out: 4.553+/-94.985 $\chi^2$/NDF:28.4/25

All: -72.068+/-69.018 $\chi^2$/NDF: 50.4/47

asym_sam_37_48_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 334.431+/-0.094 $\chi^2$/NDF: 1730610.2/15

Left Out: 340.724+/-0.105 $\chi^2$/NDF:198986.2/6

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904605.9/18

Left In: 348.247+/-0.109 $\chi^2$/NDF:84797.3/5

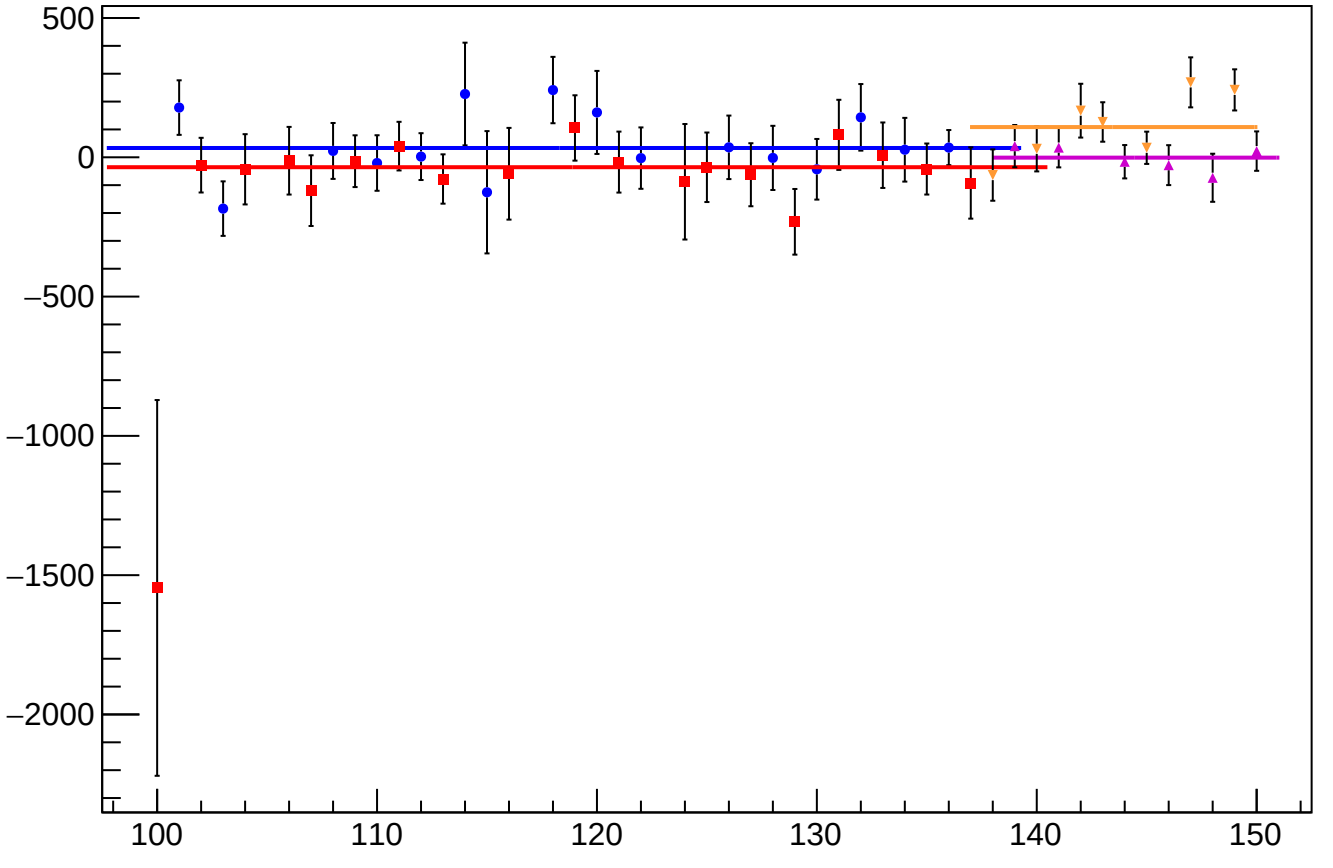
Left: 344.373+/-0.076 $\chi^2$/NDF: 286258.1/12

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660694.2/34

In: 340.350+/-0.071 $\chi^2$/NDF:1824671.6/21

Out: 324.848+/-0.067 $\chi^2$/NDF:2141870.3/25

All: 332.165+/-0.049 $\chi^2$/NDF: 3991689.0/47




Right In: 33.397+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 108.490+/-29.085 $\chi^2$/NDF:13.0/6

Right Out: -35.577+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: -1.251+/-29.117 $\chi^2$/NDF:1.6/5

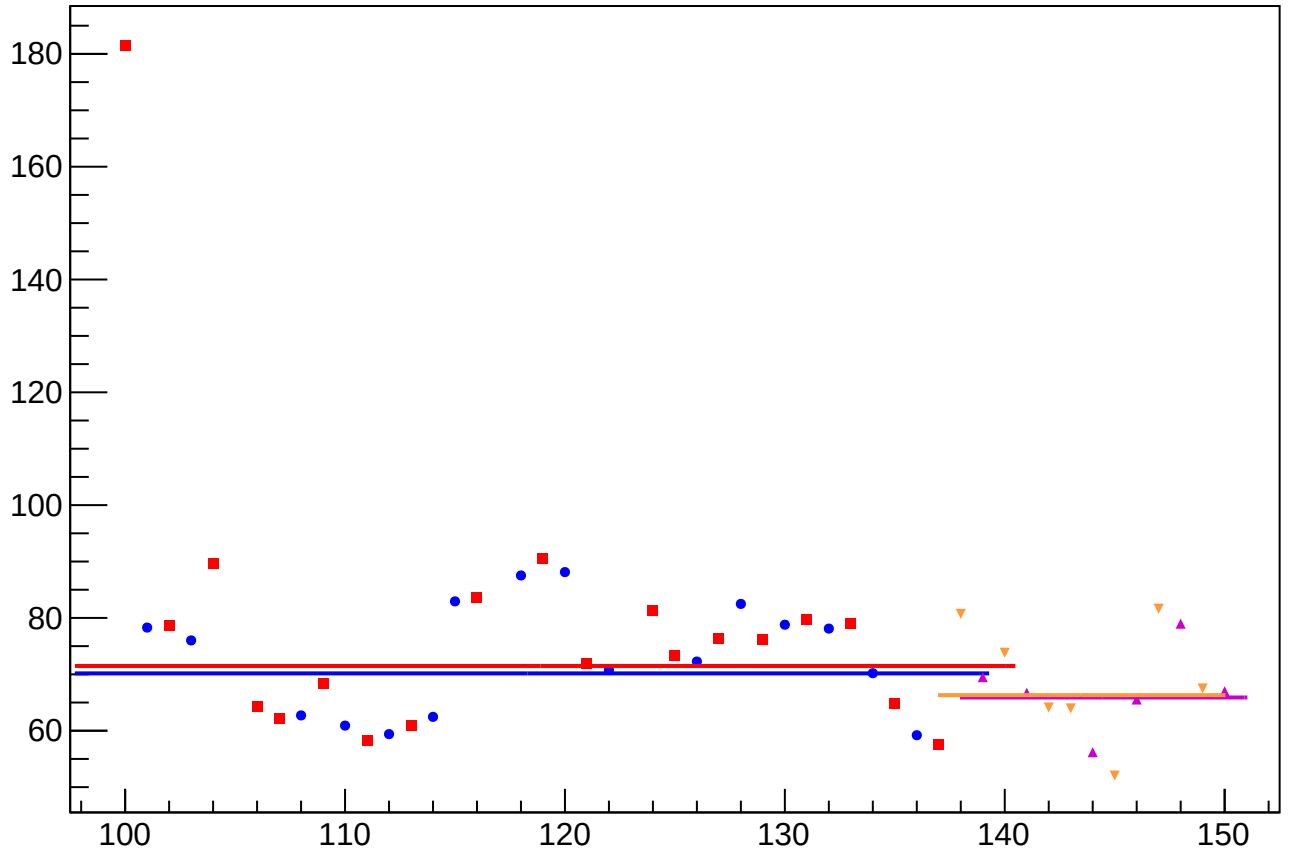
Left: 53.680+/-20.578 $\chi^2$/NDF: 21.7/12

Right: -0.932+/-18.721 $\chi^2$/NDF: 30.0/34

In: 17.755+/-19.564 $\chi^2$/NDF:16.9/21

Out: 29.868+/-19.603 $\chi^2$/NDF:38.5/25

All: 23.800+/-13.848 $\chi^2$/NDF: 55.5/47




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269253.0/15

Left Out: 66.313+/-0.021 $\chi^2$/NDF:249281.4/6

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325721.5/18

Left In: 65.895+/-0.021 $\chi^2$/NDF:103781.5/5

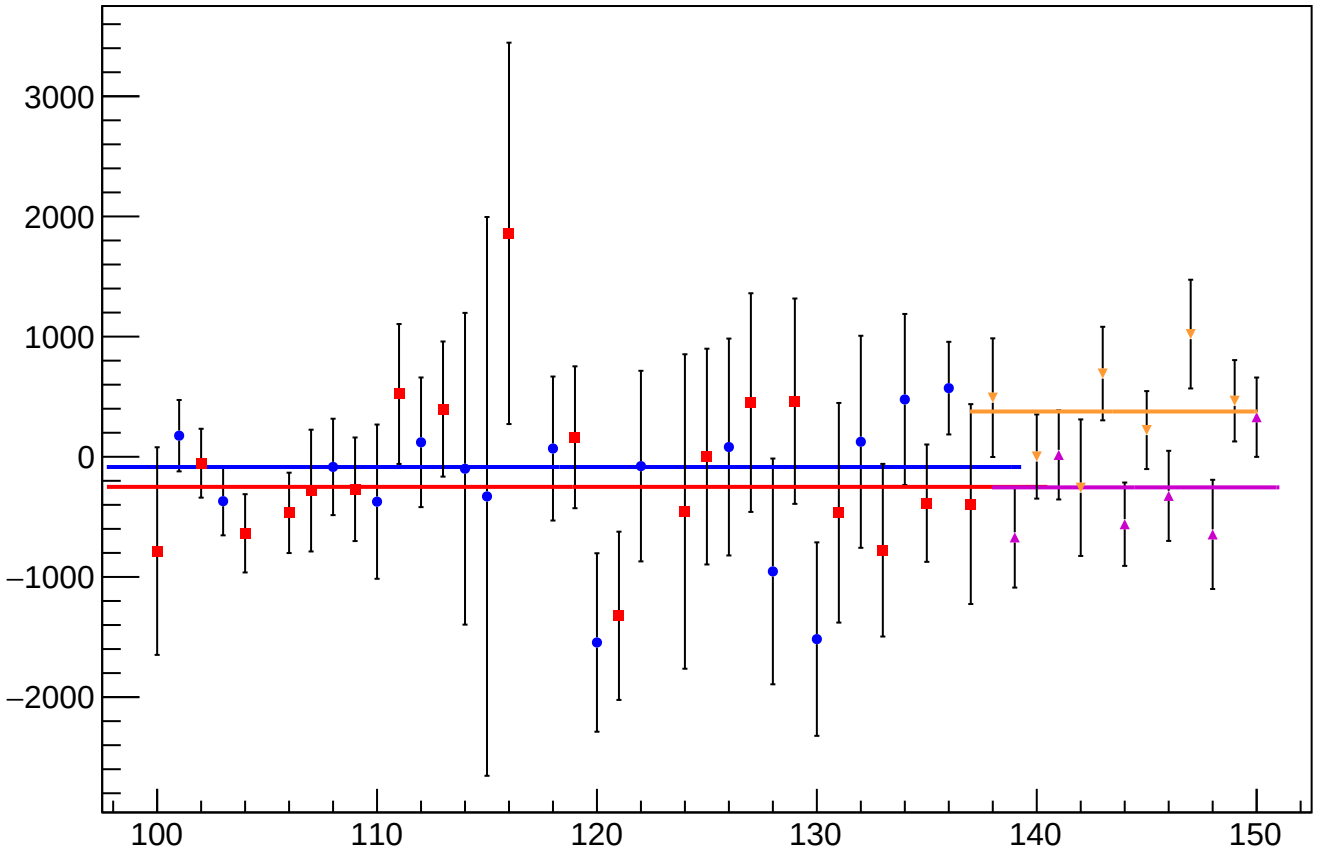
Left: 66.104+/-0.015 $\chi^2$/NDF: 353269.6/12

Right: 70.822+/-0.013 $\chi^2$/NDF: 597444.3/34

In: 68.239+/-0.014 $\chi^2$/NDF:396657.8/21

Out: 69.135+/-0.014 $\chi^2$/NDF:609489.4/25

All: 68.686+/-0.010 $\chi^2$/NDF: 1008240.9/47




Right In: -85.185+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 376.753+/-148.968 $\chi^2$/NDF:5.4/6

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -254.608+/-153.476 $\chi^2$/NDF:6.2/5

Left: 70.481+/-106.895 $\chi^2$/NDF: 20.3/12

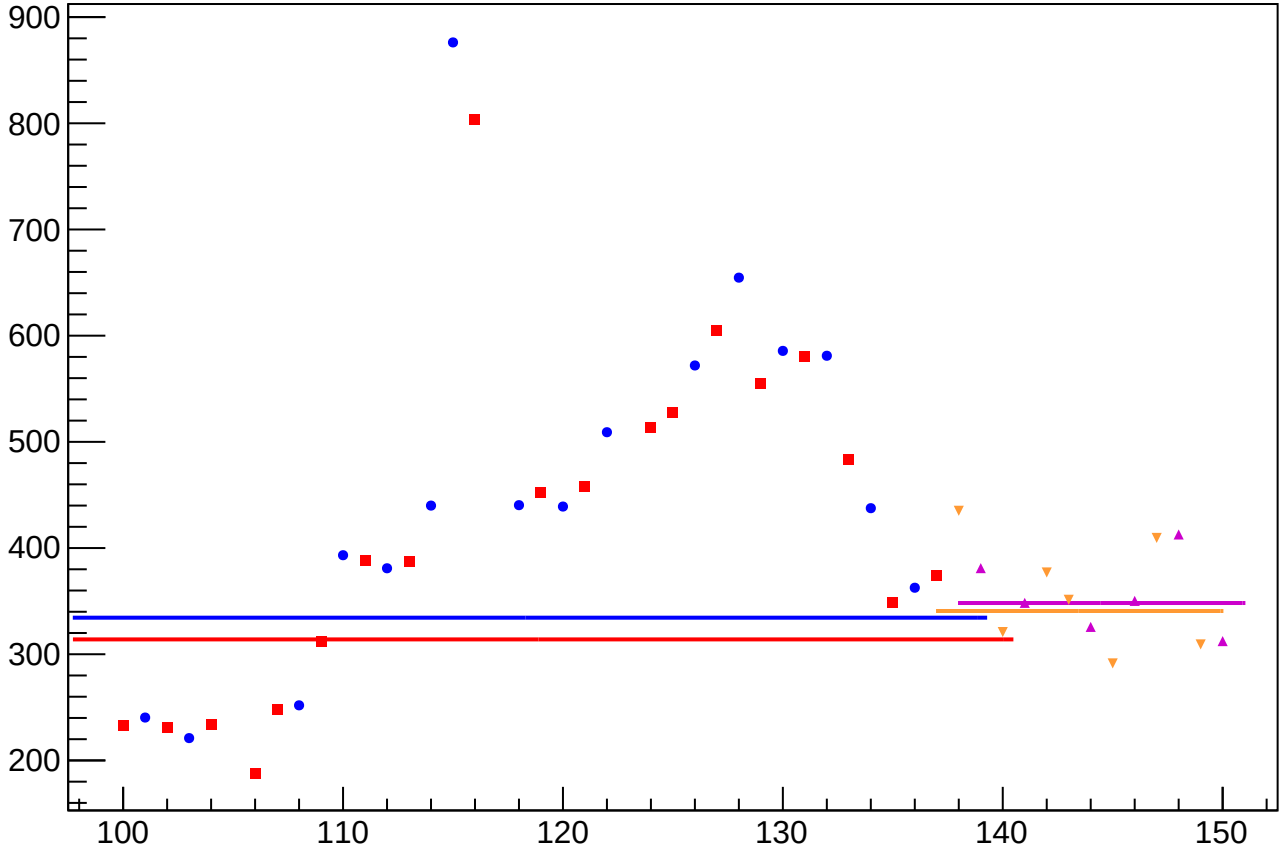
Right: -173.981+/-90.383 $\chi^2$/NDF: 27.0/34

In: -157.772+/-100.458 $\chi^2$/NDF:20.6/21

Out: 4.553+/-94.985 $\chi^2$/NDF:28.4/25

All: -72.068+/-69.018 $\chi^2$/NDF: 50.4/47

asym_sam_37_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 334.431+/-0.094 $\chi^2$/NDF: 1730609.3/15

Left Out: 340.723+/-0.105 $\chi^2$/NDF:198987.6/6

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904604.3/18

Left In: 348.247+/-0.109 $\chi^2$/NDF:84797.1/5

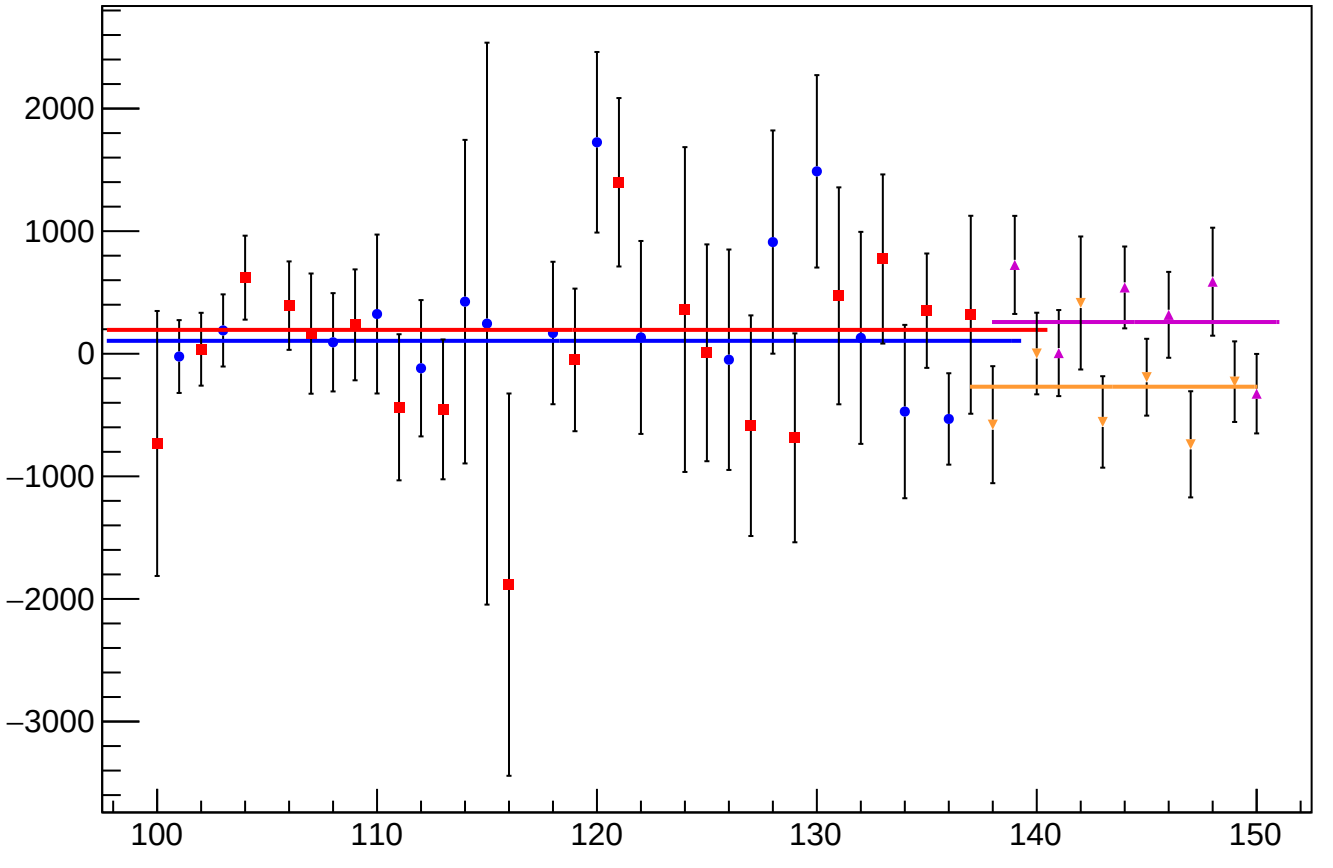
Left: 344.373+/-0.076 $\chi^2$/NDF: 286259.6/12

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660692.3/34

In: 340.350+/-0.071 $\chi^2$/NDF:1824670.4/21

Out: 324.848+/-0.067 $\chi^2$/NDF:2141869.4/25

All: 332.165+/-0.049 $\chi^2$/NDF: 3991687.6/47




Right In: 105.390+/-133.046 $\chi^2$/NDF: 13.0/15

Left Out: -268.849+/-143.206 $\chi^2$/NDF:4.5/6

Right Out: 194.712+/-126.198 $\chi^2$/NDF: 13.1/18

Left In: 258.846+/-147.201 $\chi^2$/NDF:6.4/5

Left: -12.260+/-102.645 $\chi^2$/NDF: 17.5/12

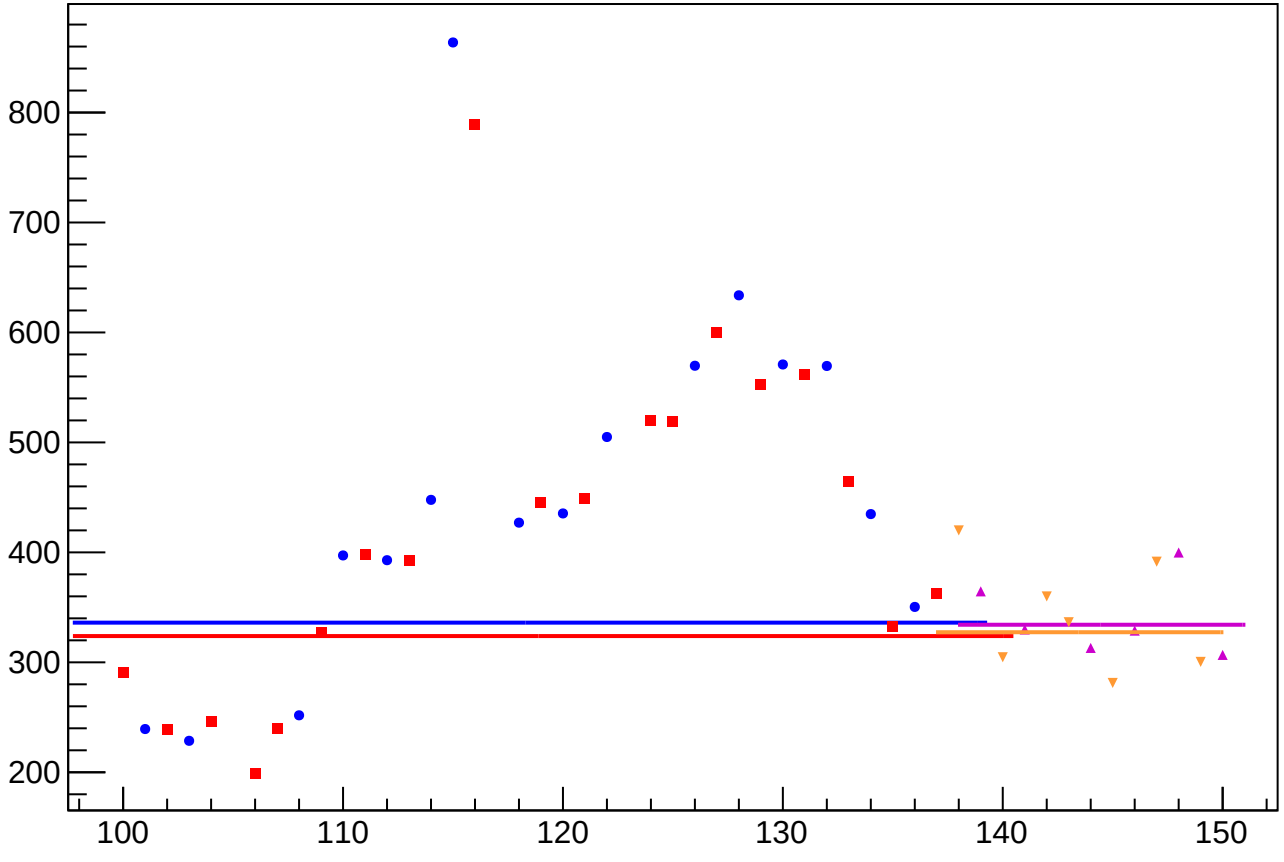
Right: 152.409+/-91.561 $\chi^2$/NDF: 26.3/34

In: 174.387+/-98.703 $\chi^2$/NDF:20.0/21

Out: -7.920+/-94.681 $\chi^2$/NDF:23.6/25

All: 79.442+/-68.327 $\chi^2$/NDF: 45.3/47

# asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 336.092+/-0.094 $\chi^2$/NDF: 1618997.2/15

Left Out: 327.378+/-0.101 $\chi^2$/NDF:193723.0/6

Right Out: 323.885+/-0.089 $\chi^2$/NDF: 1665420.8/18

Left In: 334.182+/-0.104 $\chi^2$/NDF:79035.7/5

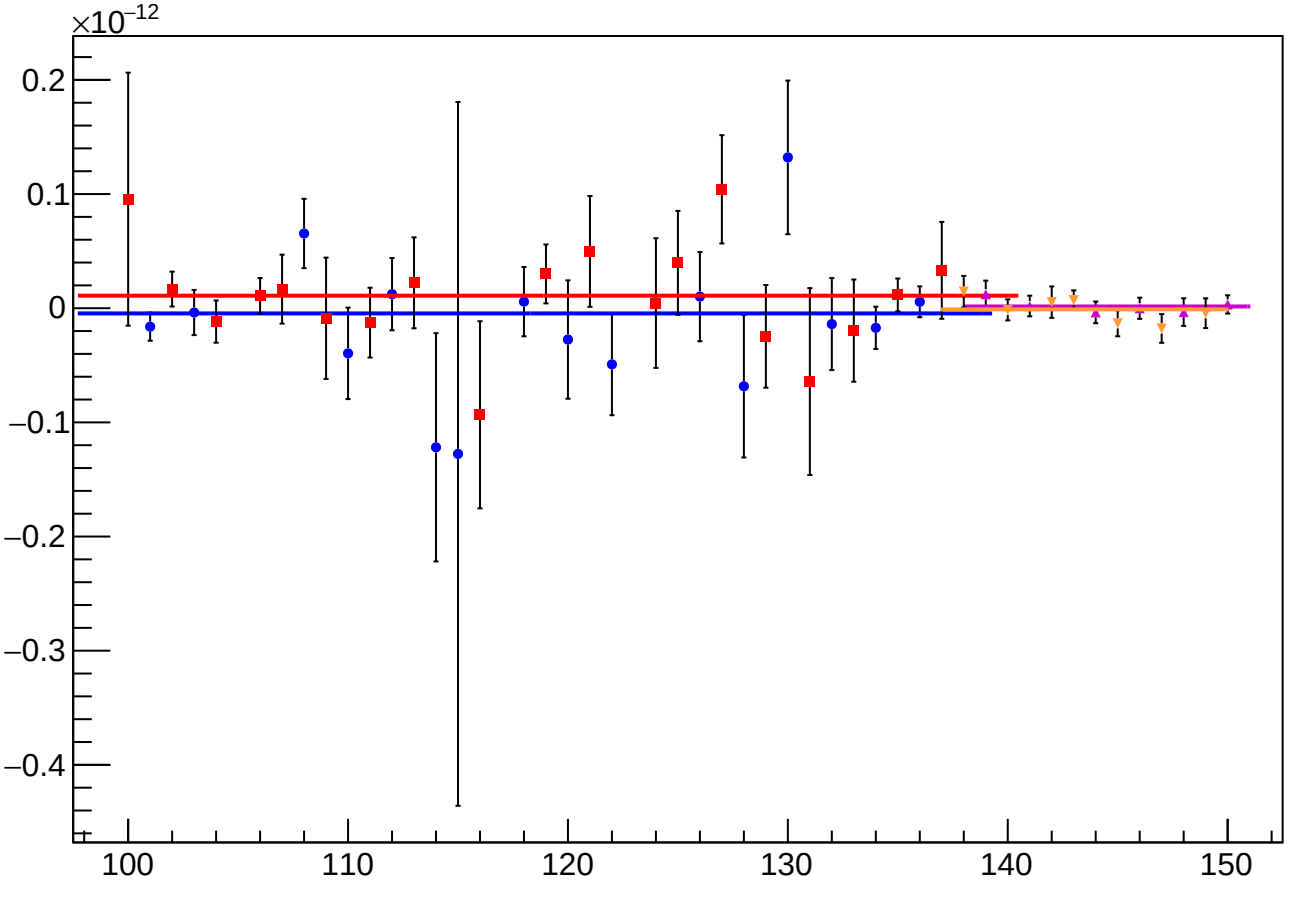
Left: 330.686+/-0.073 $\chi^2$/NDF: 274954.0/12

Right: 329.666+/-0.065 $\chi^2$/NDF: 3293280.0/34

In: 335.233+/-0.070 $\chi^2$/NDF:1698218.2/21

Out: 325.412+/-0.067 $\chi^2$/NDF:1859813.4/25

All: 330.118+/-0.048 $\chi^2$/NDF: 3568343.9/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.3/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/12

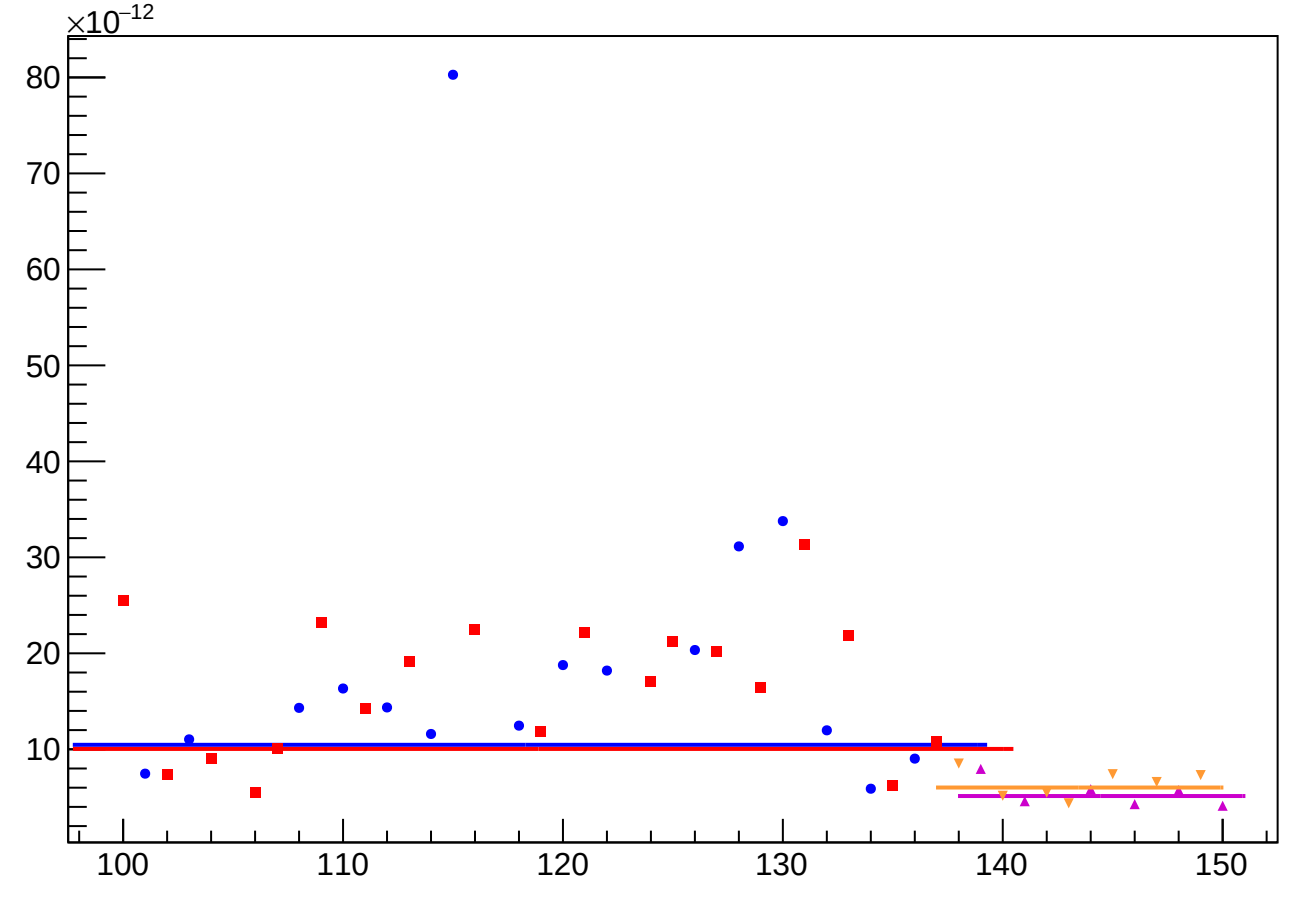
Right: 0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.5/21

Out: 0.000+/-0.000 $\chi^2$/NDF:20.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 39.0/47

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1183833.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:212979.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1415778.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:185247.4/5

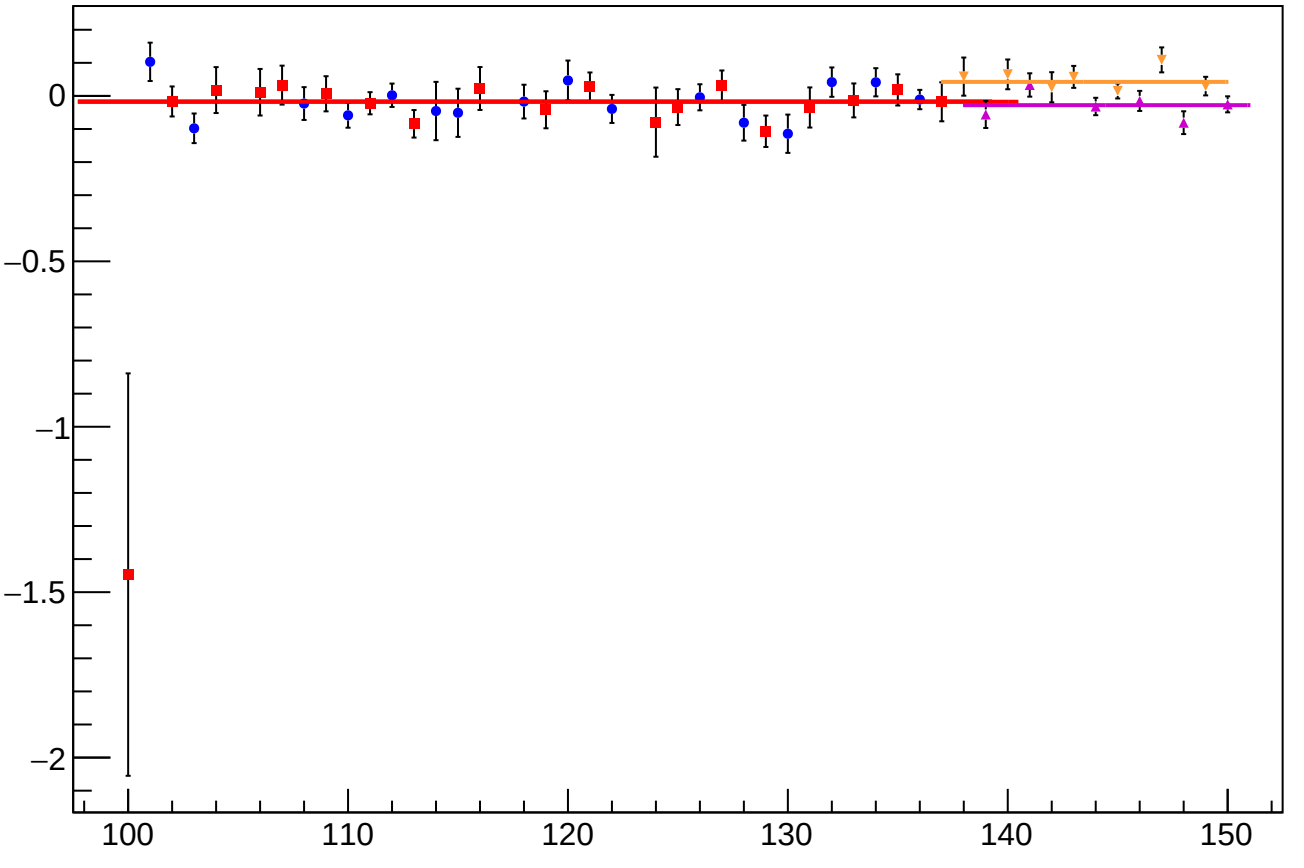
Left: 0.000+/-0.000 $\chi^2$/NDF: 445197.8/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 2604050.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:2366666.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:2176087.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 4578912.5/47




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.042+/-0.013 $\chi^2$/NDF:5.4/6

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.028+/-0.012 $\chi^2$/NDF:6.0/5

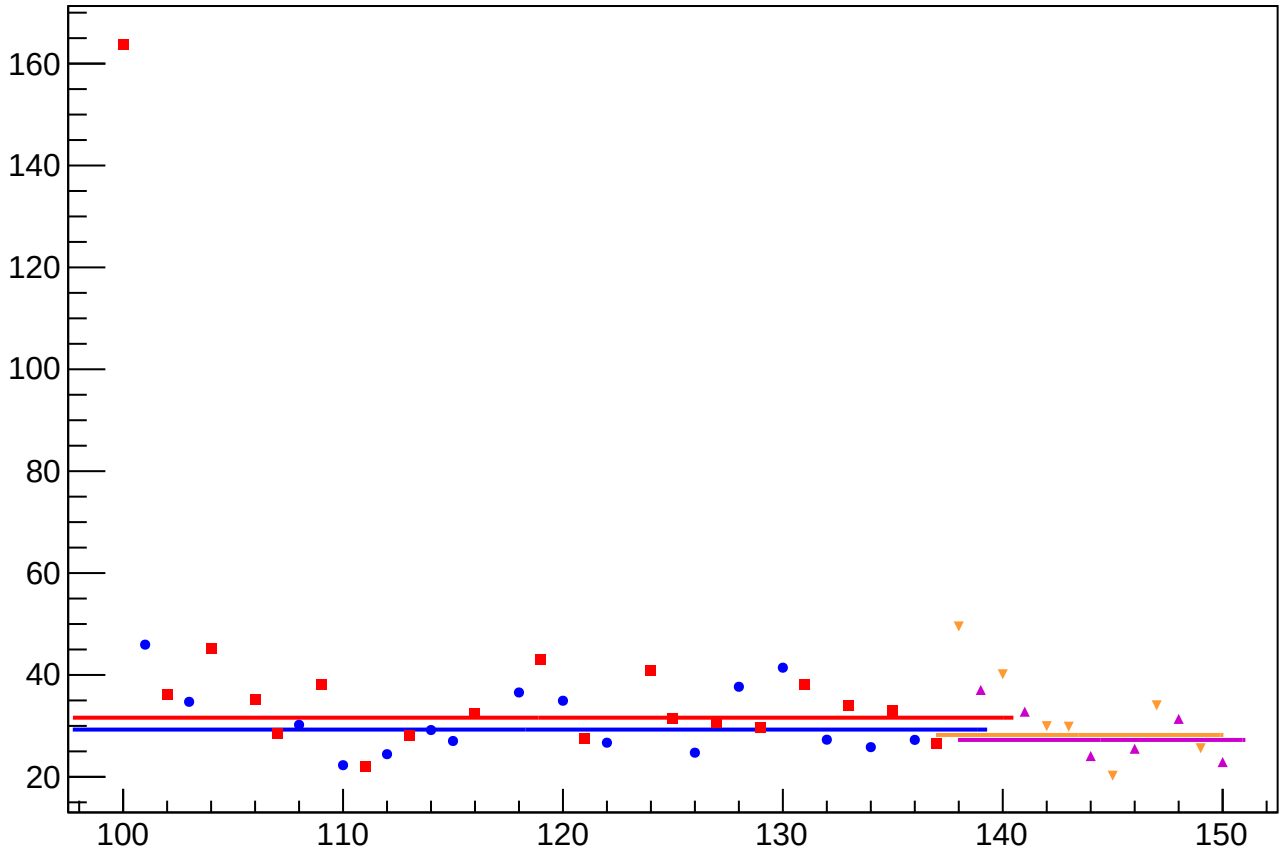
Left: 0.006+/-0.009 $\chi^2$/NDF: 27.0/12

Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.022+/-0.008 $\chi^2$/NDF:25.3/21

Out: 0.011+/-0.009 $\chi^2$/NDF:33.8/25

All: -0.006+/-0.006 $\chi^2$/NDF: 66.3/47




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.9/15

Left Out: 28.224+/-0.009 $\chi^2$/NDF:731557.5/6

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 27.246+/-0.009 $\chi^2$/NDF:293034.5/5

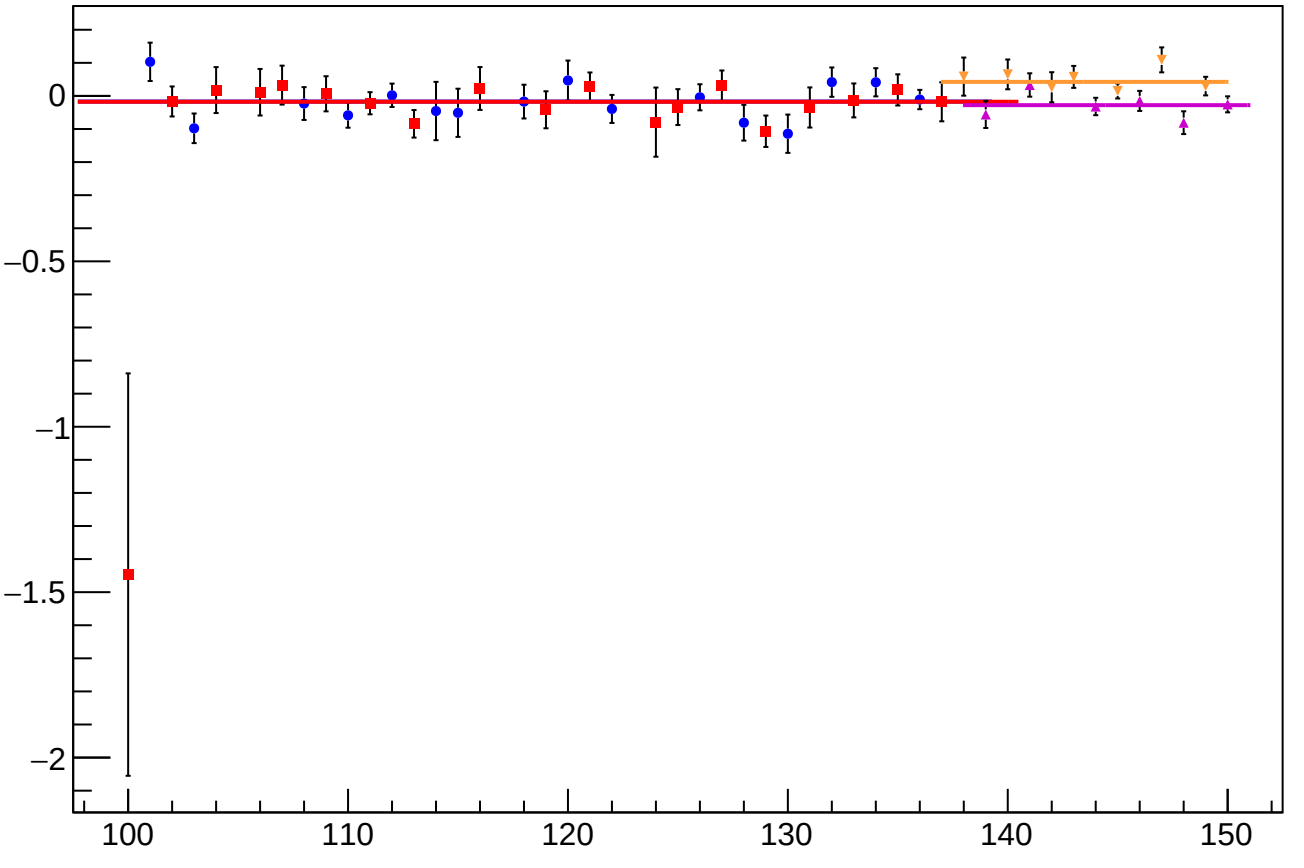
Left: 27.719+/-0.006 $\chi^2$/NDF: 1030586.3/12

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 28.354+/-0.006 $\chi^2$/NDF:882870.9/21

Out: 30.017+/-0.006 $\chi^2$/NDF:1377652.8/25

All: 29.145+/-0.004 $\chi^2$/NDF: 2297986.2/47




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.042+/-0.013 $\chi^2$/NDF:5.4/6

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.028+/-0.012 $\chi^2$/NDF:6.0/5

Left: 0.006+/-0.009 $\chi^2$/NDF: 27.0/12

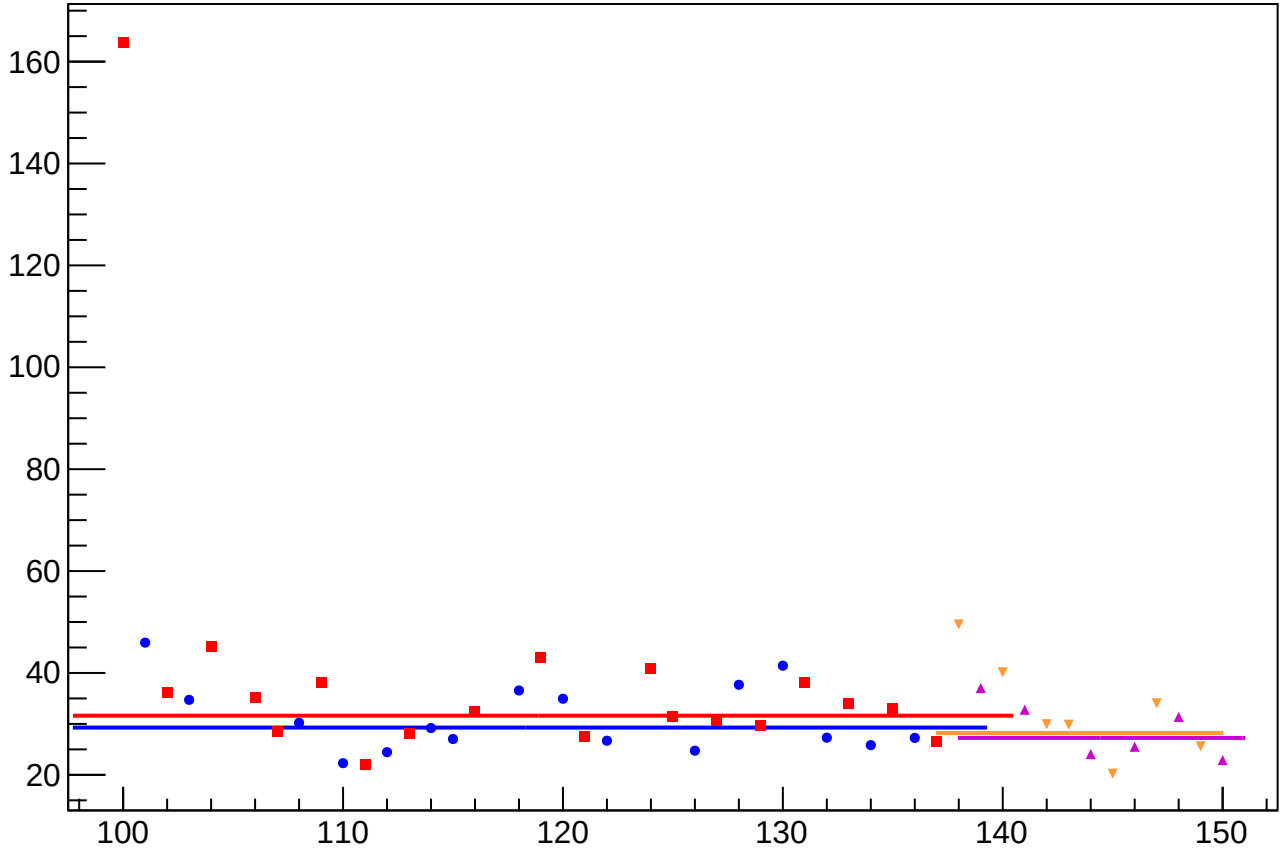
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.022+/-0.008 $\chi^2$/NDF:25.3/21

Out: 0.011+/-0.009 $\chi^2$/NDF:33.8/25

All: -0.006+/-0.006 $\chi^2$/NDF: 66.3/47

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.9/15

Left Out: 28.224+/-0.009 $\chi^2$/NDF:731557.5/6

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 27.246+/-0.009 $\chi^2$/NDF:293034.5/5

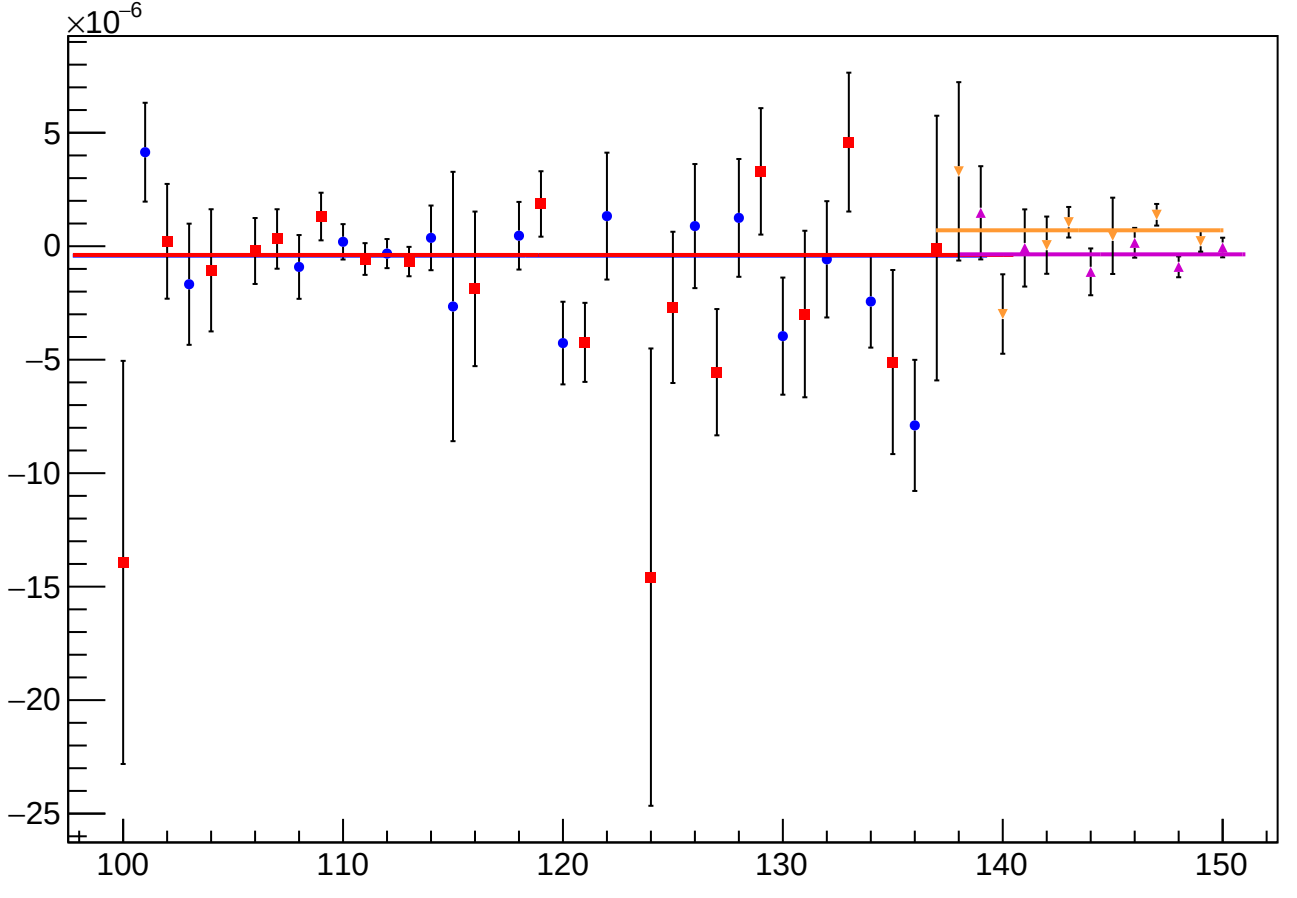
Left: 27.719+/-0.006 $\chi^2$/NDF: 1030586.3/12

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 28.354+/-0.006 $\chi^2$/NDF:882870.9/21

Out: 30.017+/-0.006 $\chi^2$/NDF:1377652.8/25

All: 29.145+/-0.004 $\chi^2$/NDF: 2297986.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.9/5

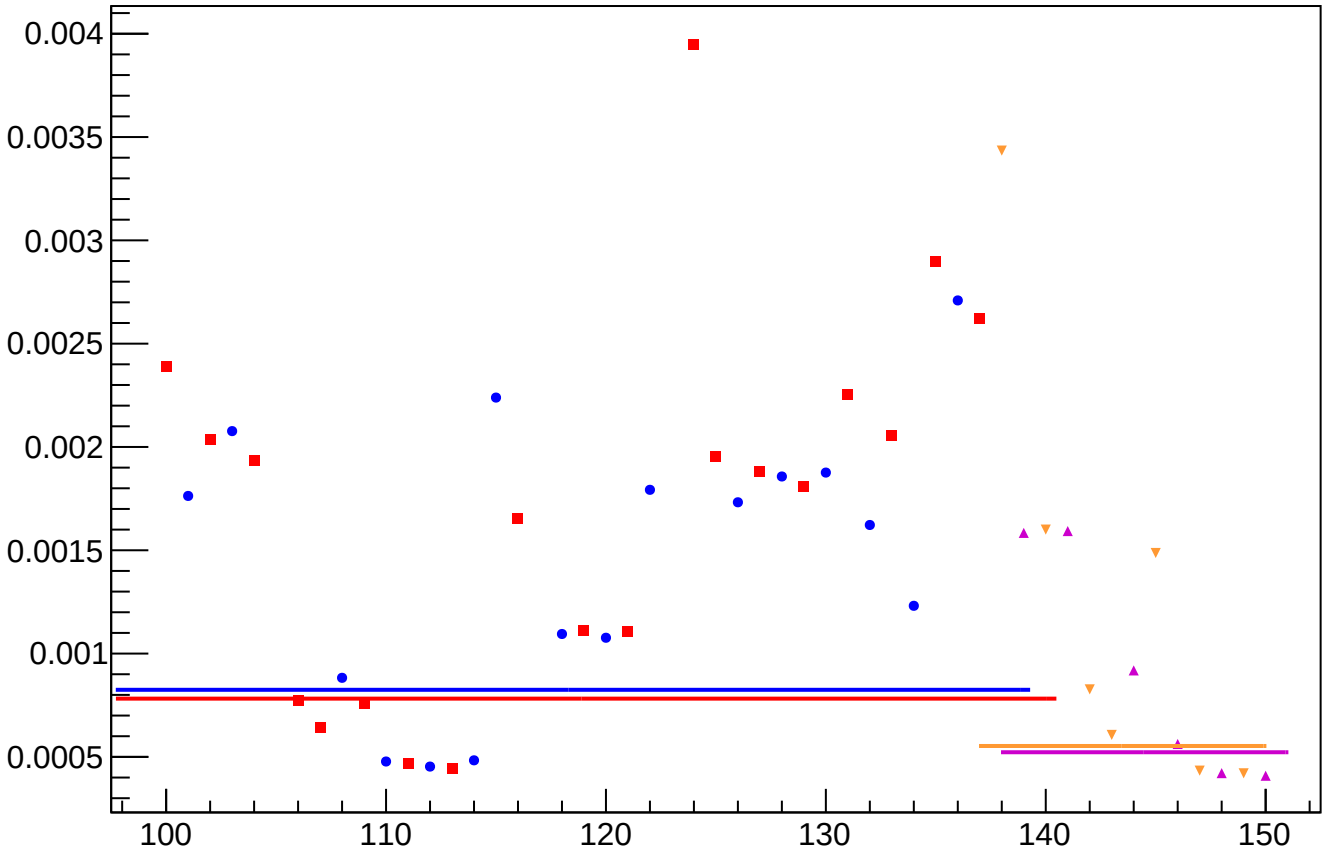
Left: 0.000+/-0.000 $\chi^2$/NDF: 19.9/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:39.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 69.4/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4448725.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2806234.1/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4638419.3/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1864518.8/5

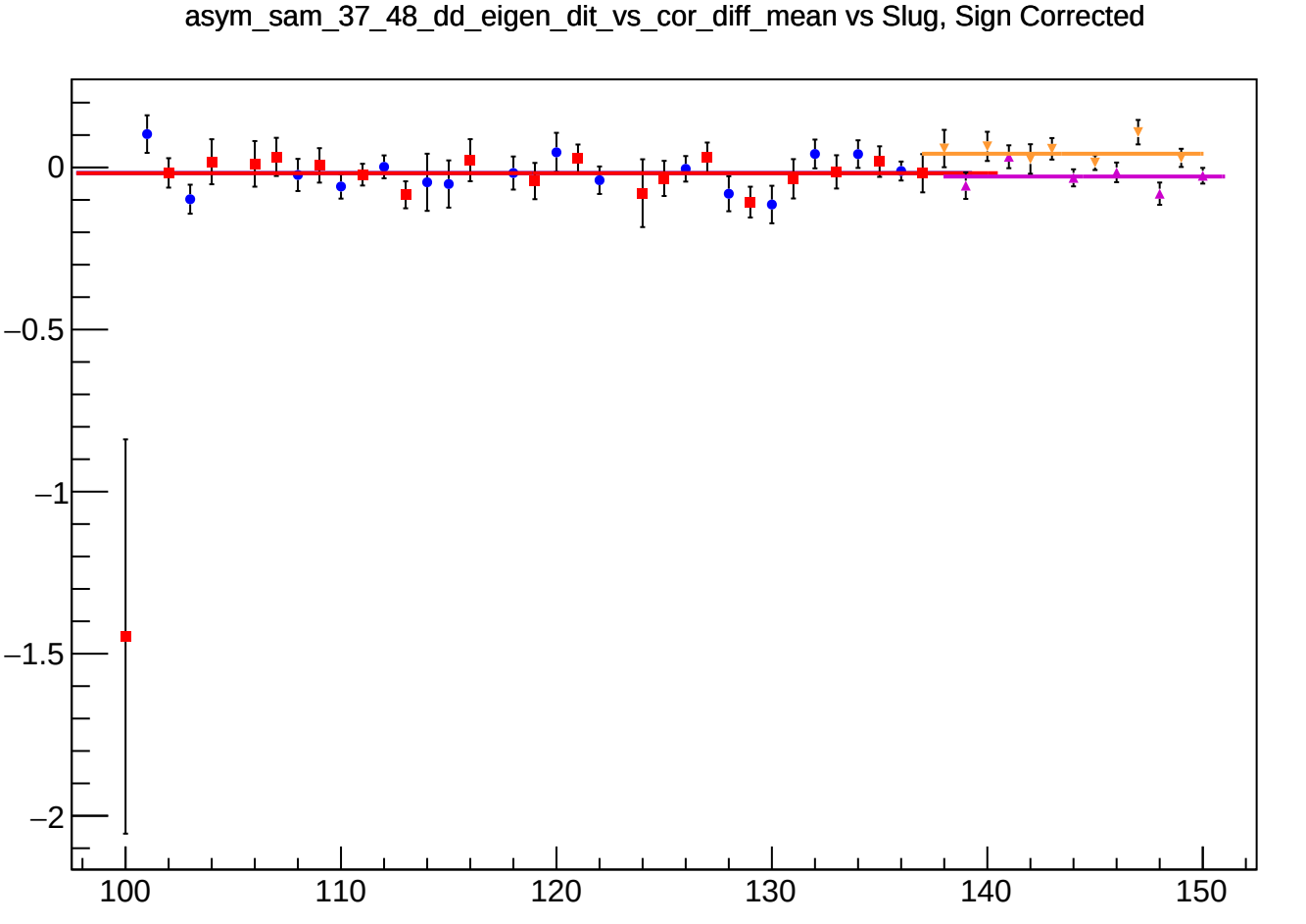
Left: 0.001+/-0.000 $\chi^2$/NDF: 4682940.2/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 9101271.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:7187016.3/21

Out: 0.001+/-0.000 $\chi^2$/NDF:7969342.7/25

All: 0.001+/-0.000 $\chi^2$/NDF: 15162217.5/47




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.042+/-0.013 $\chi^2$/NDF:5.4/6

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.028+/-0.012 $\chi^2$/NDF:6.0/5

Left: 0.006+/-0.009 $\chi^2$/NDF: 27.0/12

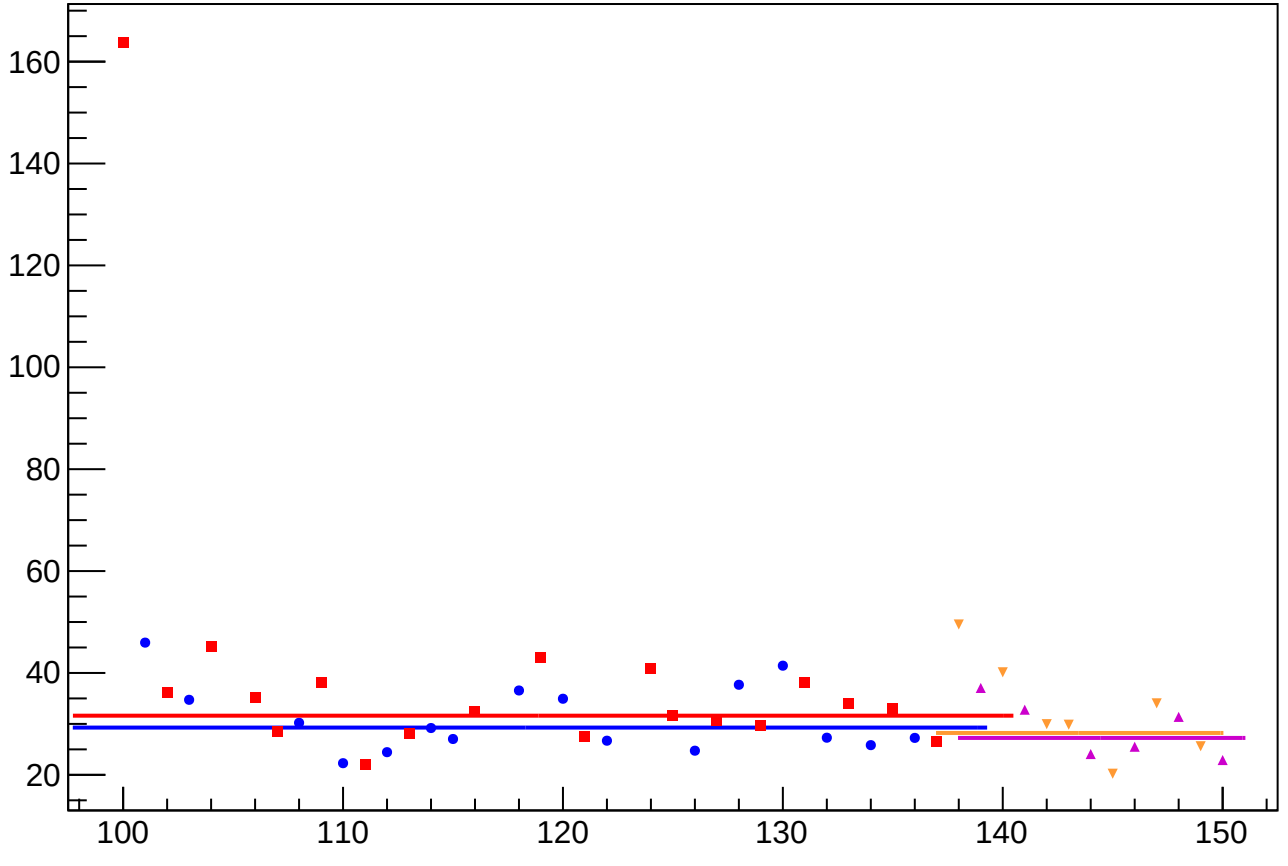
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.022+/-0.008 $\chi^2$/NDF:25.3/21

Out: 0.011+/-0.009 $\chi^2$/NDF:33.8/25

All: -0.006+/-0.006 $\chi^2$/NDF: 66.3/47

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.1/15

Left Out: 28.223+/-0.009 $\chi^2$/NDF:731603.9/6

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 27.246+/-0.009 $\chi^2$/NDF:293007.0/5

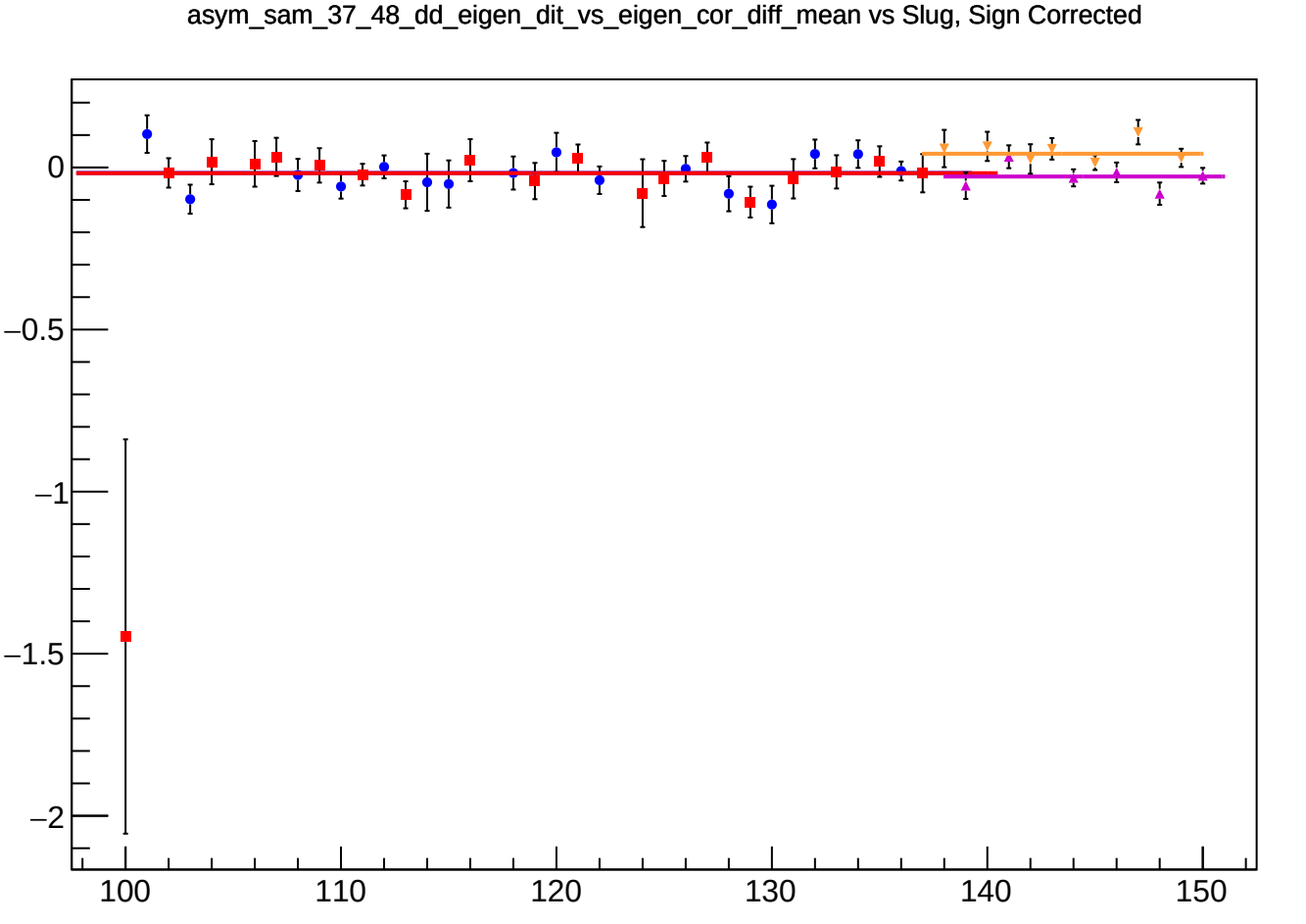
Left: 27.719+/-0.006 $\chi^2$/NDF: 1030600.1/12

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

In: 28.354+/-0.006 $\chi^2$/NDF:882844.8/21

Out: 30.017+/-0.006 $\chi^2$/NDF:1377723.6/25

All: 29.145+/-0.004 $\chi^2$/NDF: 2298023.9/47




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.042+/-0.013 $\chi^2$/NDF:5.4/6

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.028+/-0.012 $\chi^2$/NDF:6.0/5

Left: 0.006+/-0.009 $\chi^2$/NDF: 27.0/12

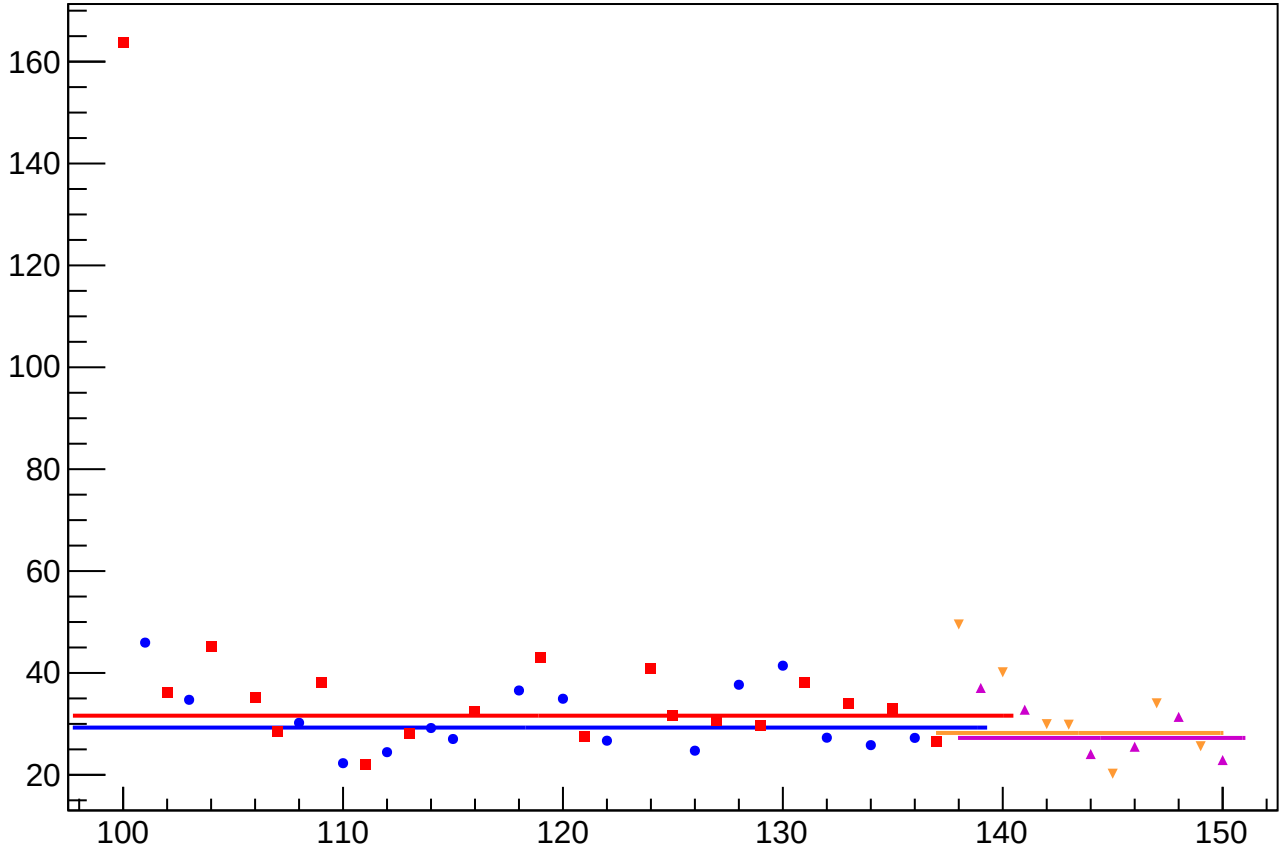
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.022+/-0.008 $\chi^2$/NDF:25.3/21

Out: 0.011+/-0.009 $\chi^2$/NDF:33.8/25

All: -0.006+/-0.006 $\chi^2$/NDF: 66.3/47

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.1/15

Left Out: 28.223+/-0.009 $\chi^2$/NDF:731603.9/6

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 27.246+/-0.009 $\chi^2$/NDF:293007.0/5

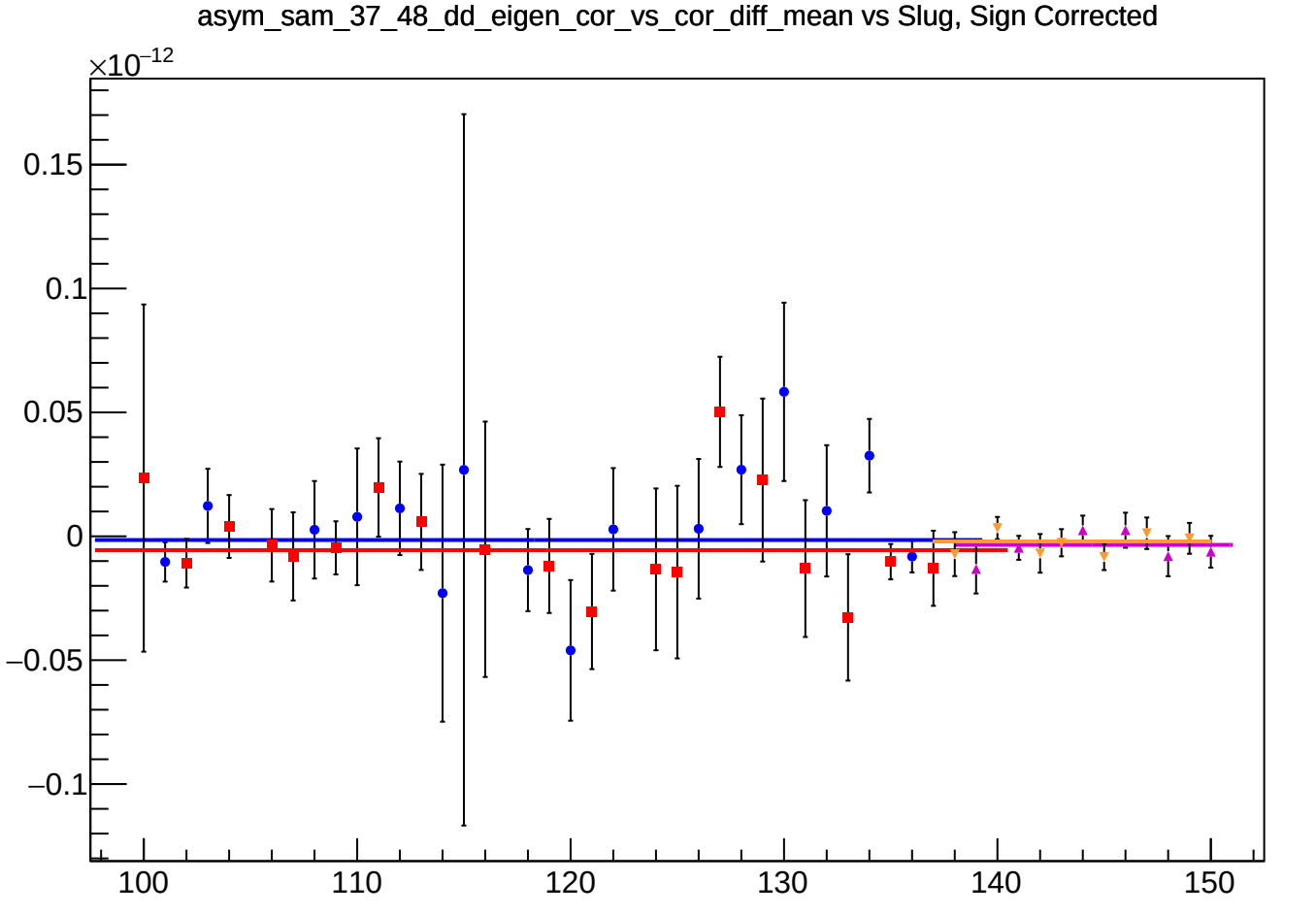
Left: 27.719+/-0.006 $\chi^2$/NDF: 1030600.1/12

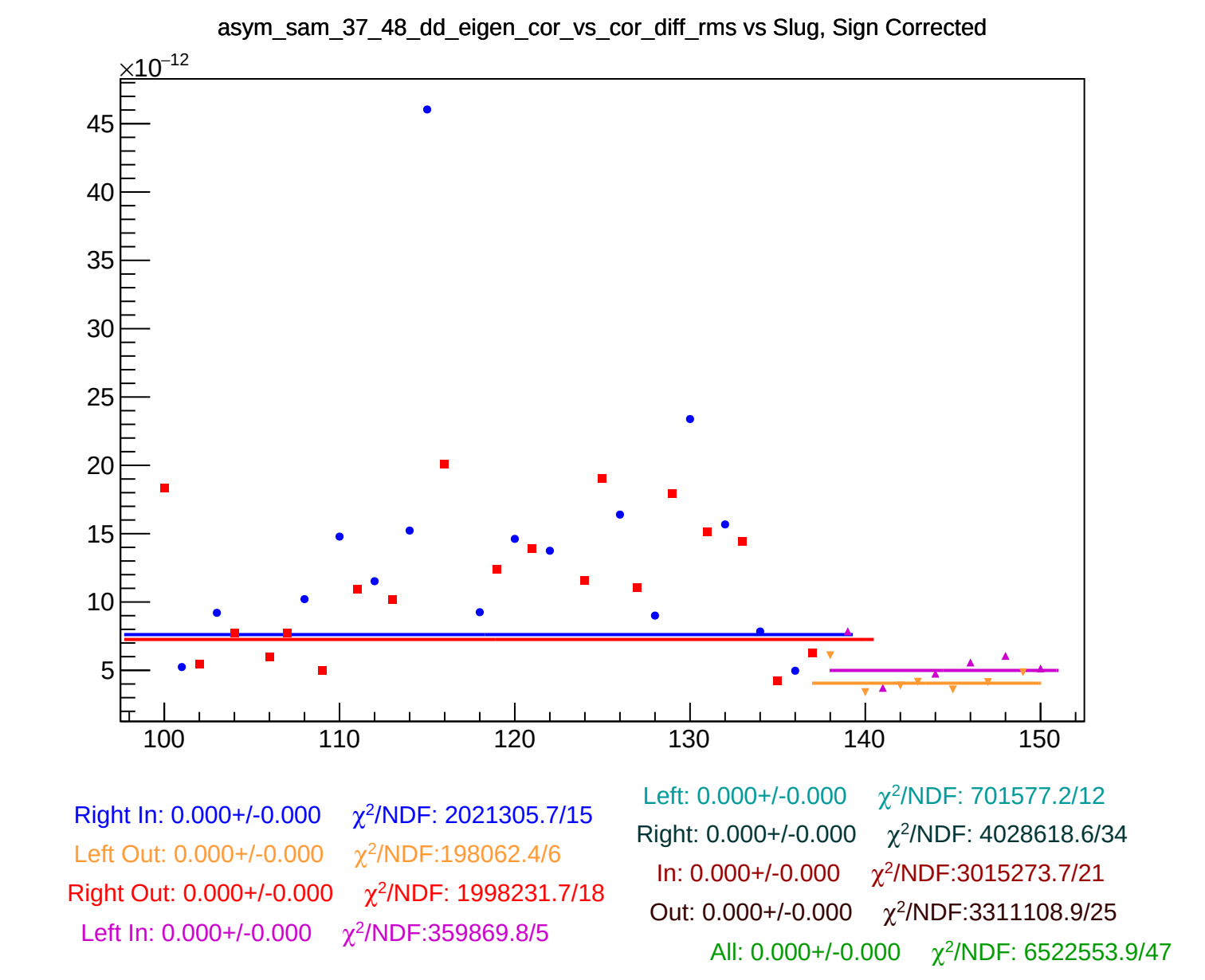
Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

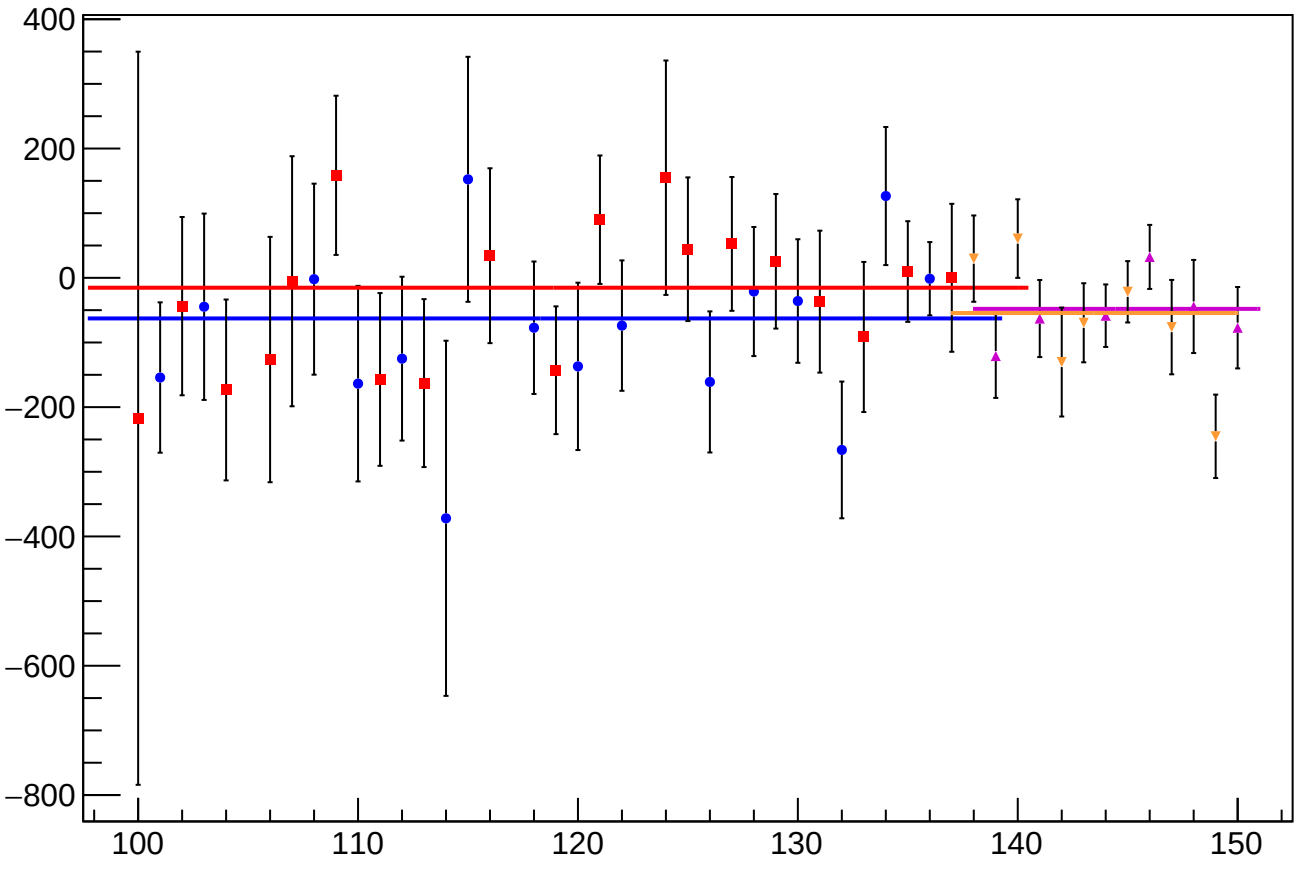
In: 28.354+/-0.006 $\chi^2$/NDF:882844.8/21

Out: 30.017+/-0.006 $\chi^2$/NDF:1377723.6/25

All: 29.145+/-0.004 $\chi^2$/NDF: 2298023.9/47


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.15
0.1
0.05
0
−0.05
−0.1
100
110
120
130
140
150
Right In: -0.000+/-0.000 χ²/NDF: 16.9/15
Left Out: -0.000+/-0.000 χ²/NDF:3.9/6
Right Out: -0.000+/-0.000 χ²/NDF: 13.3/18
Left In: -0.000+/-0.000 χ²/NDF:3.2/5
Left: -0.000+/-0.000 χ²/NDF: 7.2/12
Right: -0.000+/-0.000 χ²/NDF: 30.9/34
In: -0.000+/-0.000 χ²/NDF:20.4/21
Out: -0.000+/-0.000 χ²/NDF:17.8/25
All: -0.000+/-0.000 χ²/NDF: 38.2/47


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
45
40
35
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2021305.7/15
Left Out: 0.000+/-0.000 χ²/NDF:198062.4/6
Right Out: 0.000+/-0.000 χ²/NDF: 1998231.7/18
Left In: 0.000+/-0.000 χ²/NDF:359869.8/5
Left: 0.000+/-0.000 χ²/NDF: 701577.2/12
Right: 0.000+/-0.000 χ²/NDF: 4028618.6/34
In: 0.000+/-0.000 χ²/NDF:3015273.7/21
Out: 0.000+/-0.000 χ²/NDF:3311108.9/25
All: 0.000+/-0.000 χ²/NDF: 6522553.9/47




Right In: -62.798+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -54.406+/-23.731 $\chi^2$/NDF:15.4/6

Right Out: -15.288+/-27.770 $\chi^2$/NDF: 11.5/18

Left In: -48.000+/-23.566 $\chi^2$/NDF:4.2/5

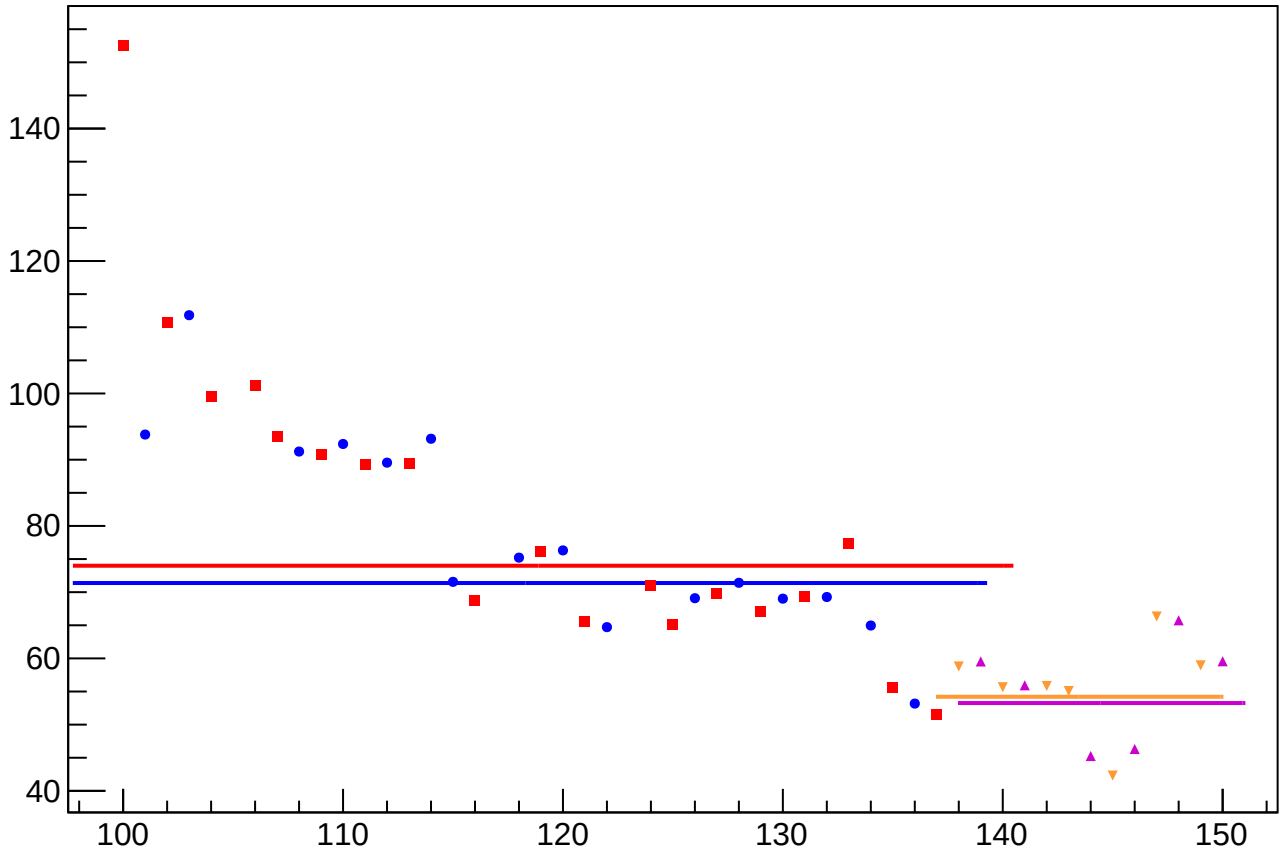
Left: -51.180+/-16.722 $\chi^2$/NDF: 19.6/12

Right: -39.524+/-19.436 $\chi^2$/NDF: 26.4/34

In: -54.342+/-17.815 $\chi^2$/NDF:17.9/21

Out: -37.896+/-18.041 $\chi^2$/NDF:28.0/25

All: -46.222+/-12.676 $\chi^2$/NDF: 46.3/47




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590909.3/15

Left Out: 54.209+/-0.017 $\chi^2$/NDF:203387.2/6

Right Out: 73.994+/-0.020 $\chi^2$/NDF: 638445.5/18

Left In: 53.262+/-0.017 $\chi^2$/NDF:197027.2/5

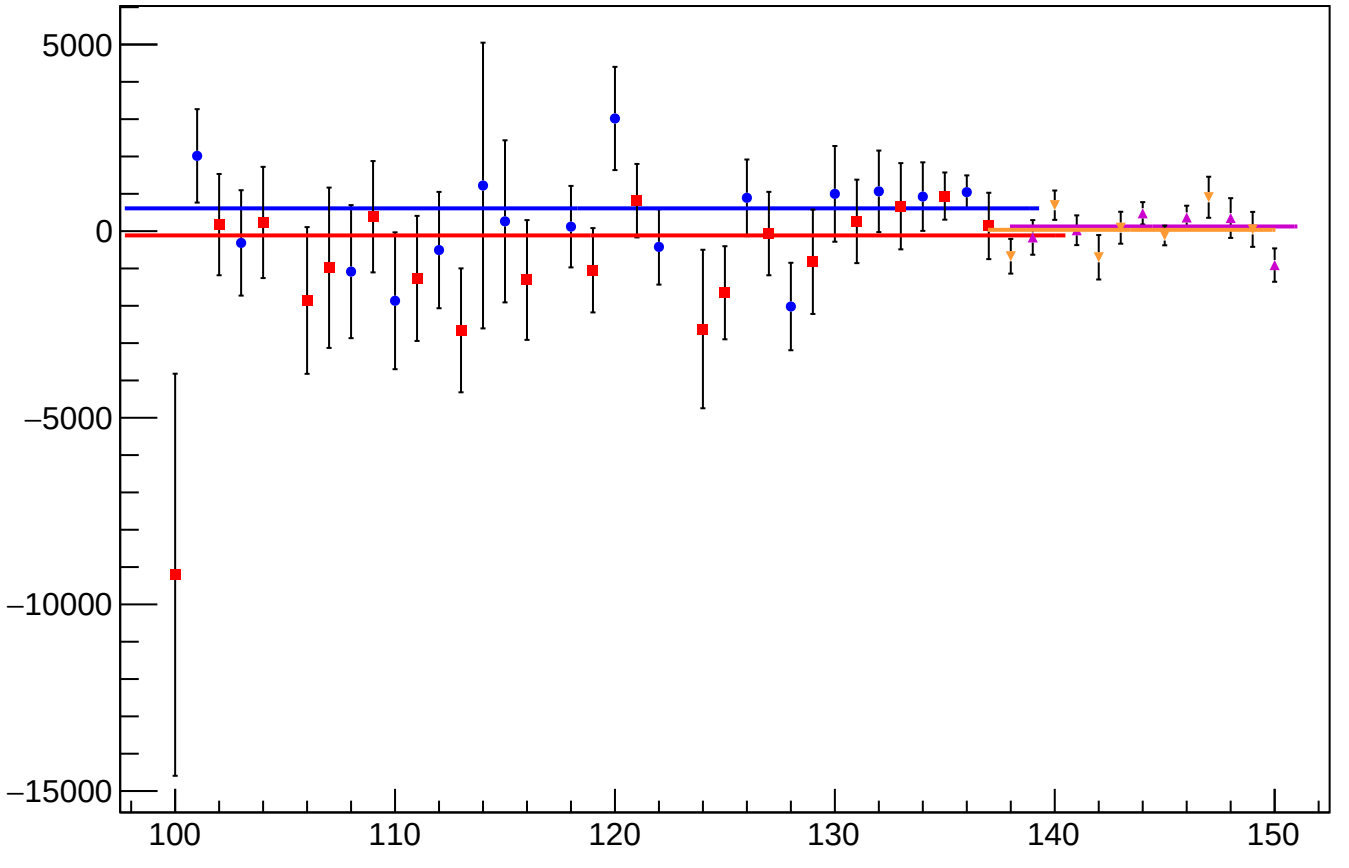
Left: 53.732+/-0.012 $\chi^2$/NDF: 402019.7/12

Right: 72.662+/-0.014 $\chi^2$/NDF: 1238370.4/34

In: 61.028+/-0.013 $\chi^2$/NDF:1294744.6/21

Out: 62.559+/-0.013 $\chi^2$/NDF:1428534.5/25

All: 61.784+/-0.009 $\chi^2$/NDF: 2730577.3/47




Right In: 610.561+/-266.802 $\chi^2$/NDF: 15.7/15

Left Out: 35.049+/-155.003 $\chi^2$/NDF:9.5/6

Right Out: -114.633+/-284.312 $\chi^2$/NDF: 15.6/18

Left In: 125.103+/-156.785 $\chi^2$/NDF:8.0/5

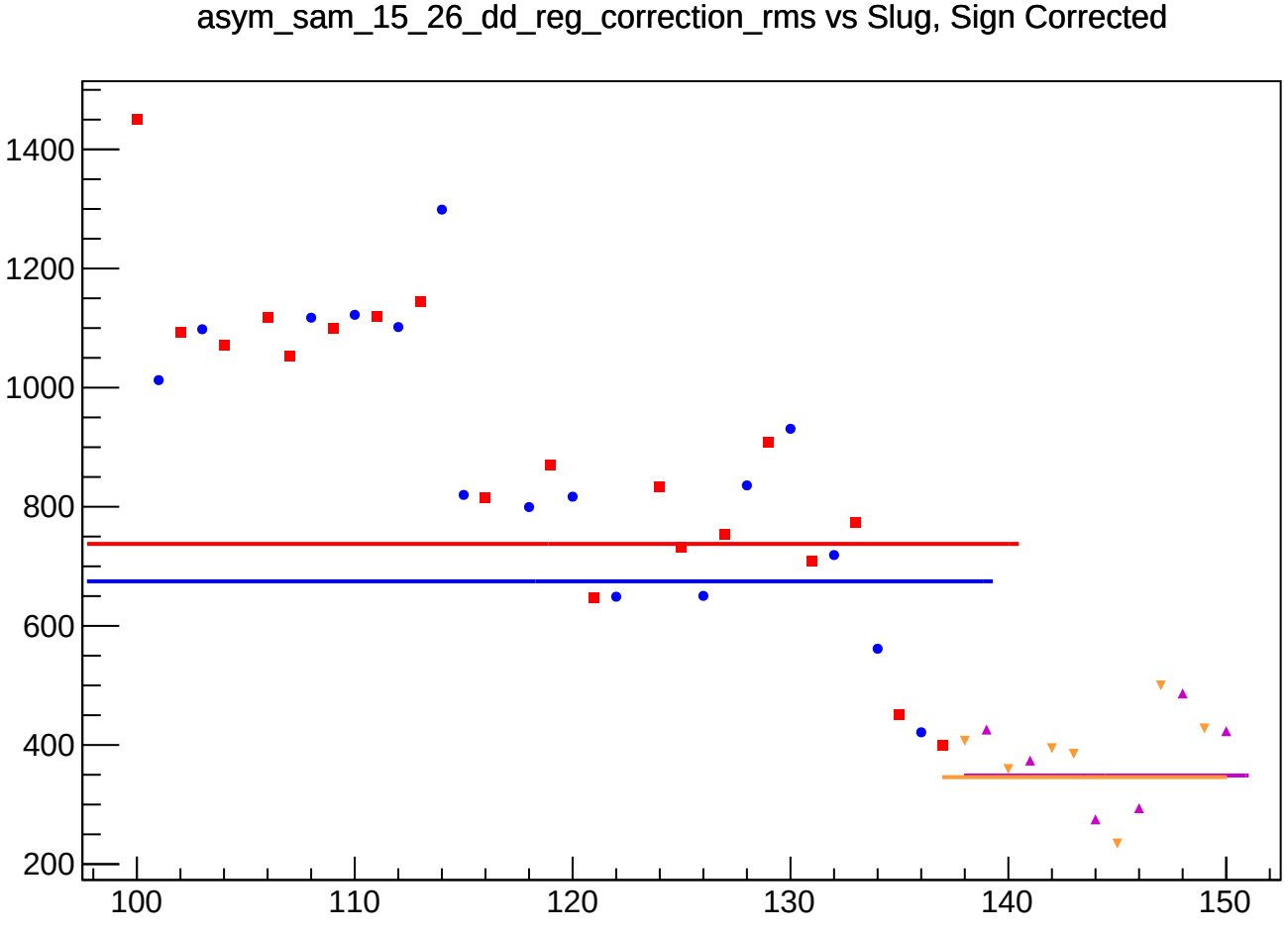
Left: 79.562+/-110.228 $\chi^2$/NDF: 17.7/12

Right: 270.981+/-194.553 $\chi^2$/NDF: 34.7/34

In: 249.713+/-135.173 $\chi^2$/NDF:26.1/21

Out: 0.753+/-136.092 $\chi^2$/NDF:25.3/25

All: 126.076+/-95.905 $\chi^2$/NDF: 53.1/47




Right In: 674.830+/-0.189 $\chi^2$/NDF: 1617598.7/15

Left Out: 345.979+/-0.110 $\chi^2$/NDF:642216.8/6

Right Out: 737.674+/-0.201 $\chi^2$/NDF: 1516748.6/18

Left In: 348.796+/-0.111 $\chi^2$/NDF:434385.5/5

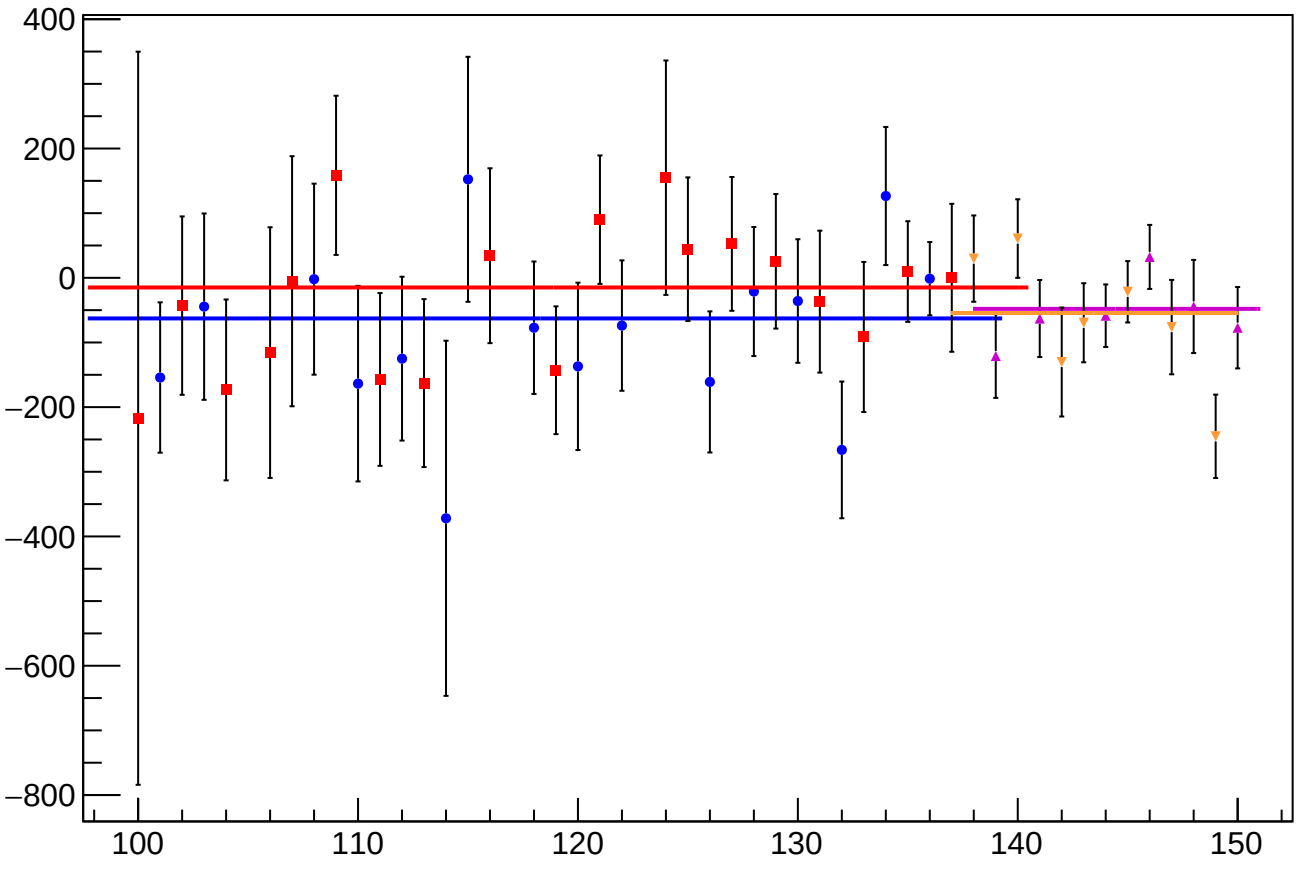
Left: 347.371+/-0.078 $\chi^2$/NDF: 1076928.9/12

Right: 704.257+/-0.138 $\chi^2$/NDF: 3186306.4/34

In: 432.484+/-0.096 $\chi^2$/NDF:4271974.7/21

Out: 435.727+/-0.096 $\chi^2$/NDF:5085272.8/25

All: 434.094+/-0.068 $\chi^2$/NDF: 9357819.0/47




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -54.407+/-23.731 $\chi^2$/NDF:15.4/6

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -48.000+/-23.566 $\chi^2$/NDF:4.2/5

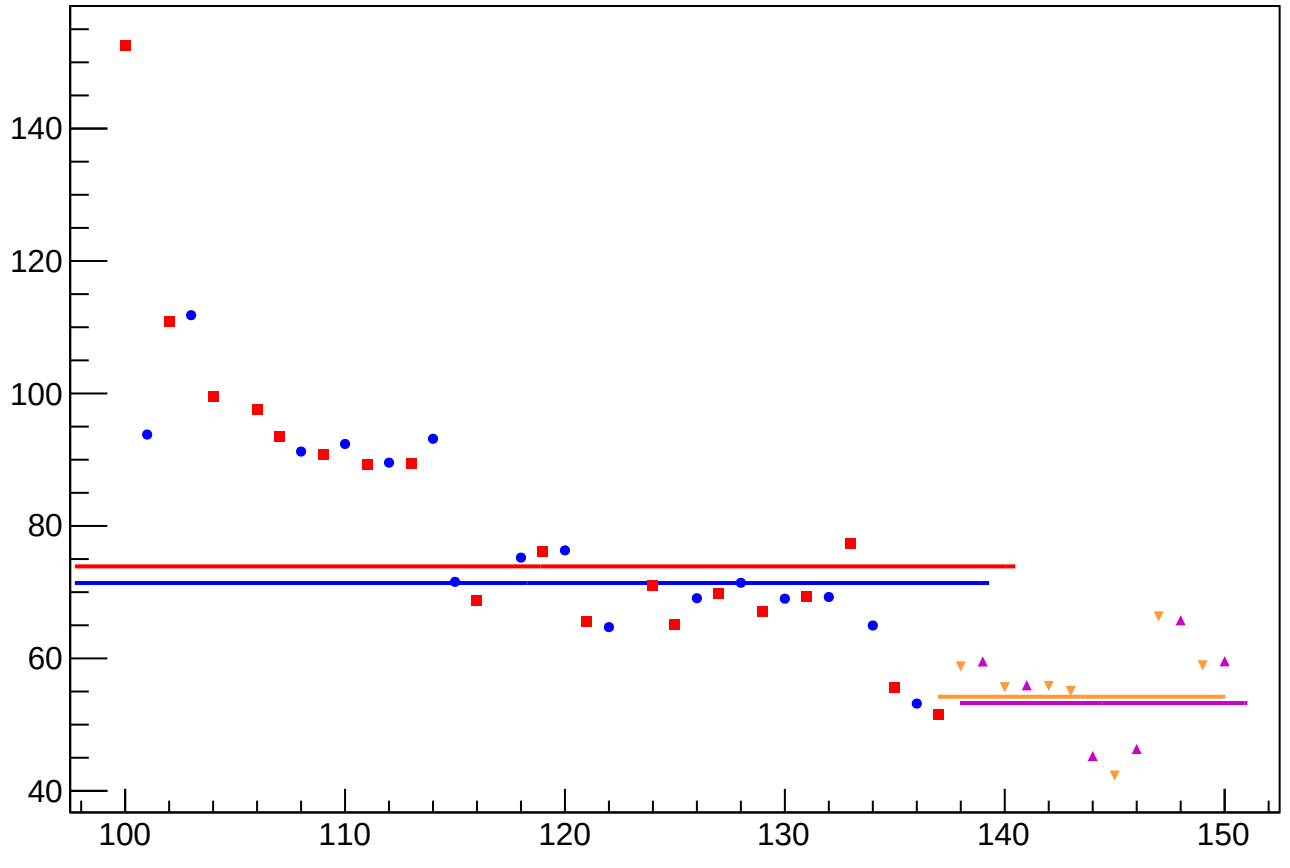
Left: -51.181+/-16.722 $\chi^2$/NDF: 19.6/12

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -54.338+/-17.815 $\chi^2$/NDF:17.9/21

Out: -37.755+/-18.045 $\chi^2$/NDF:27.9/25

All: -46.153+/-12.677 $\chi^2$/NDF: 46.2/47




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 54.209+/-0.017 $\chi^2$/NDF:203387.2/6

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 53.262+/-0.017 $\chi^2$/NDF:197027.2/5

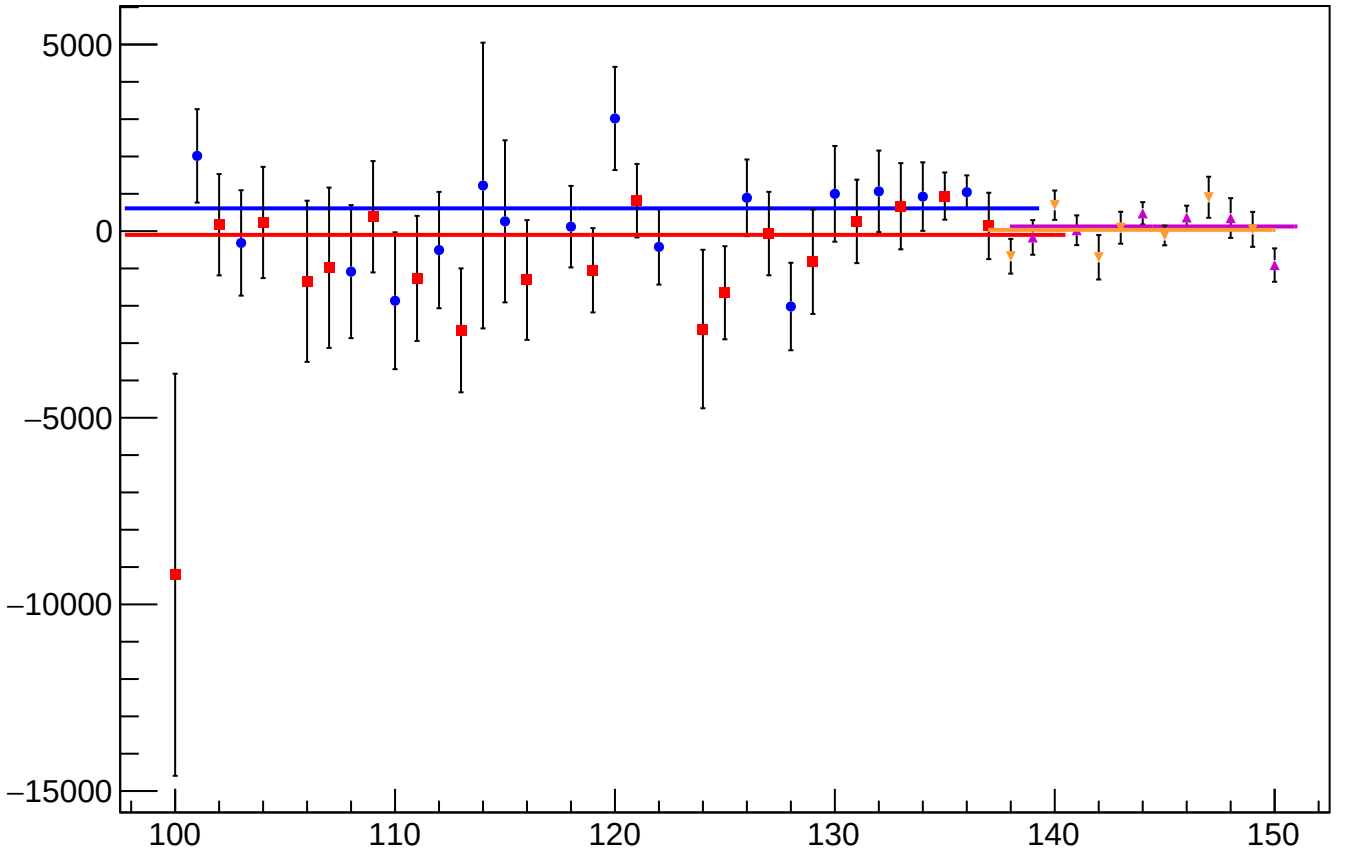
Left: 53.732+/-0.012 $\chi^2$/NDF: 402019.7/12

Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 61.028+/-0.013 $\chi^2$/NDF:1294747.2/21

Out: 62.513+/-0.013 $\chi^2$/NDF:1410882.3/25

All: 61.761+/-0.009 $\chi^2$/NDF: 2712488.3/47




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: 35.047+/-155.003 $\chi^2$/NDF:9.5/6

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: 125.100+/-156.785 $\chi^2$/NDF:8.0/5

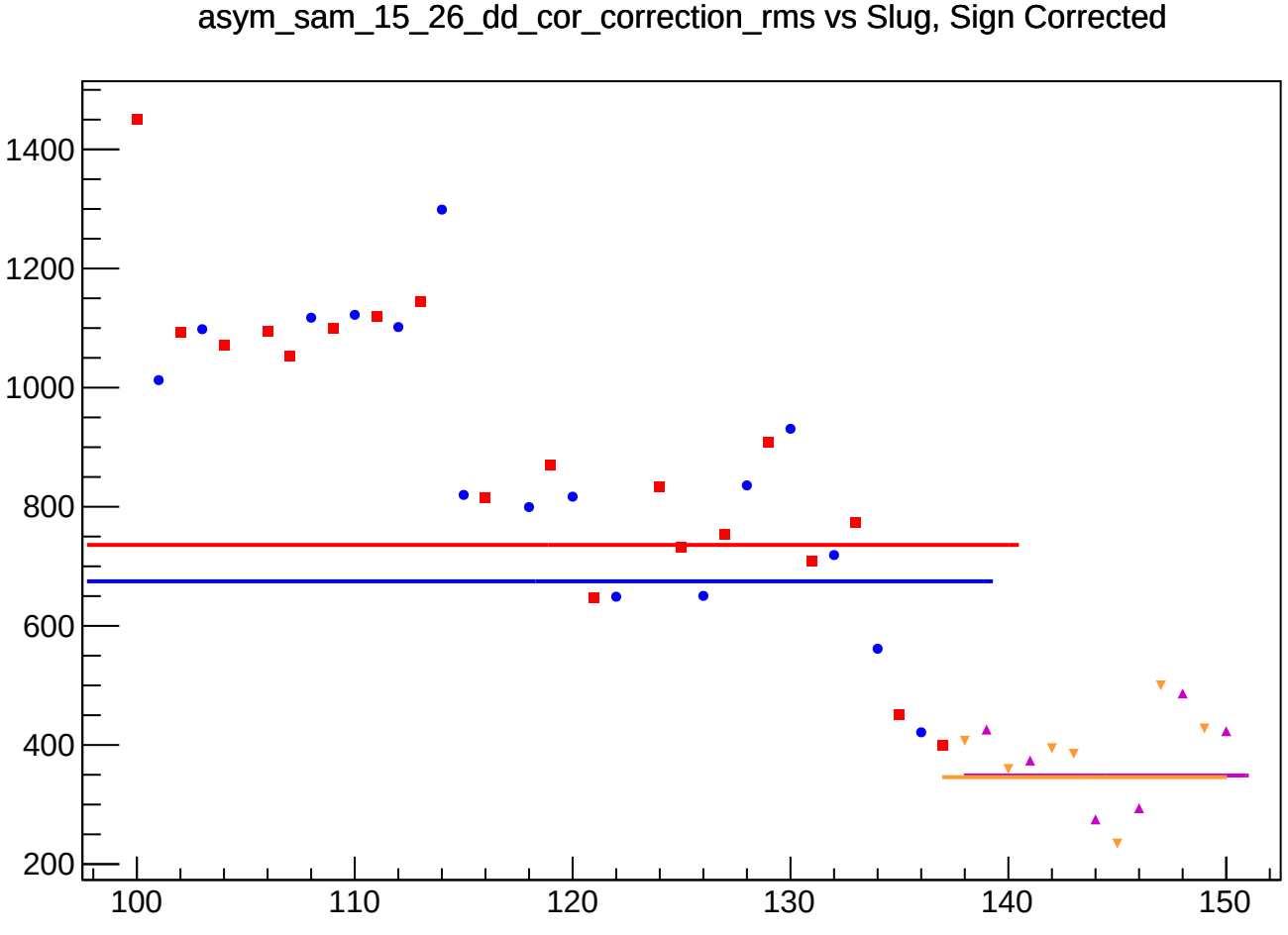
Left: 79.559+/-110.228 $\chi^2$/NDF: 17.7/12

Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 249.708+/-135.173 $\chi^2$/NDF:26.1/21

Out: 4.293+/-136.149 $\chi^2$/NDF:24.8/25

All: 127.883+/-95.925 $\chi^2$/NDF: 52.5/47




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 345.978+/-0.110 $\chi^2$/NDF:642221.9/6

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 348.796+/-0.111 $\chi^2$/NDF:434386.2/5

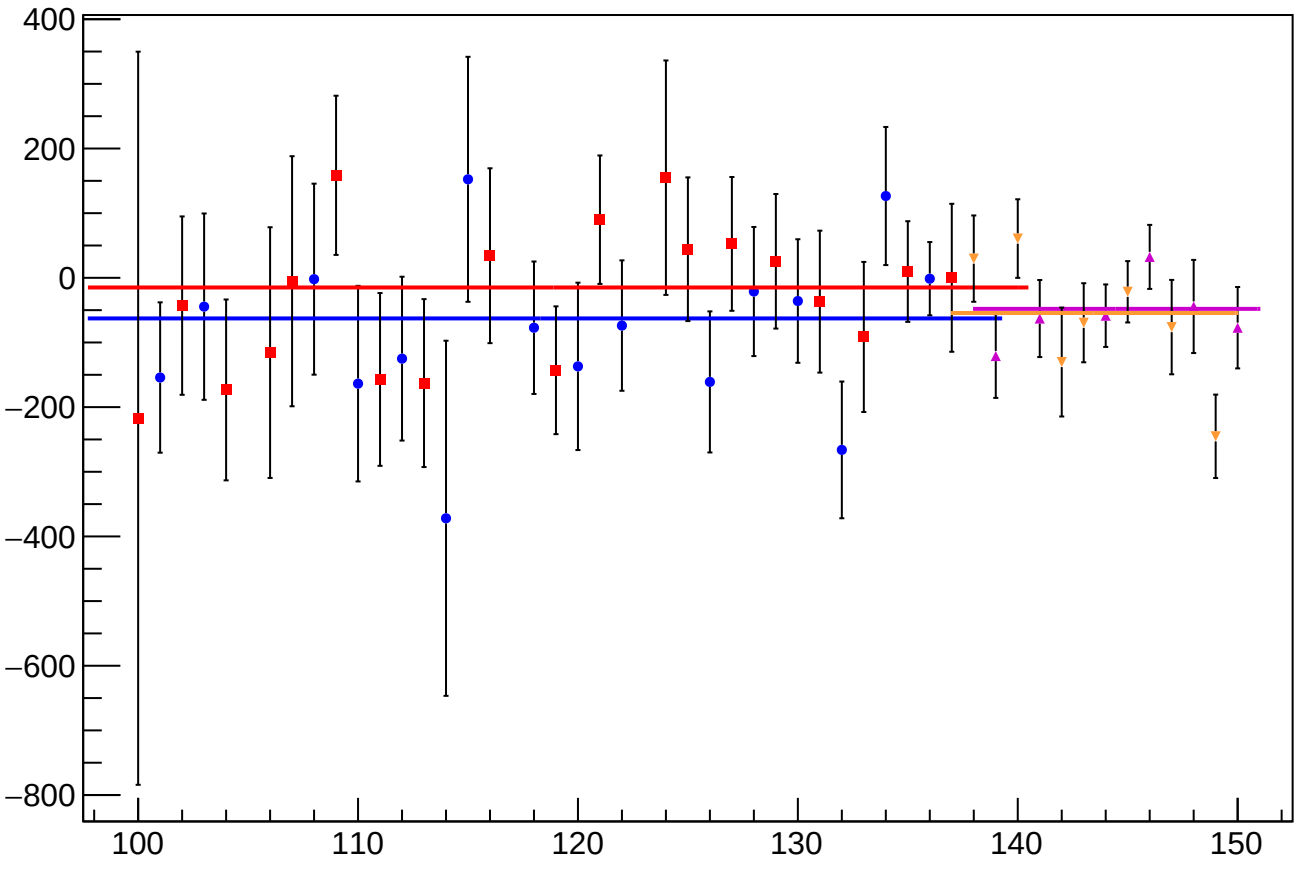
Left: 347.371+/-0.078 $\chi^2$/NDF: 1076934.7/12

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 432.484+/-0.096 $\chi^2$/NDF:4271998.7/21

Out: 435.073+/-0.096 $\chi^2$/NDF:5031203.5/25

All: 433.769+/-0.068 $\chi^2$/NDF: 9303566.3/47




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -54.407+/-23.731 $\chi^2$/NDF:15.4/6

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -48.000+/-23.566 $\chi^2$/NDF:4.2/5

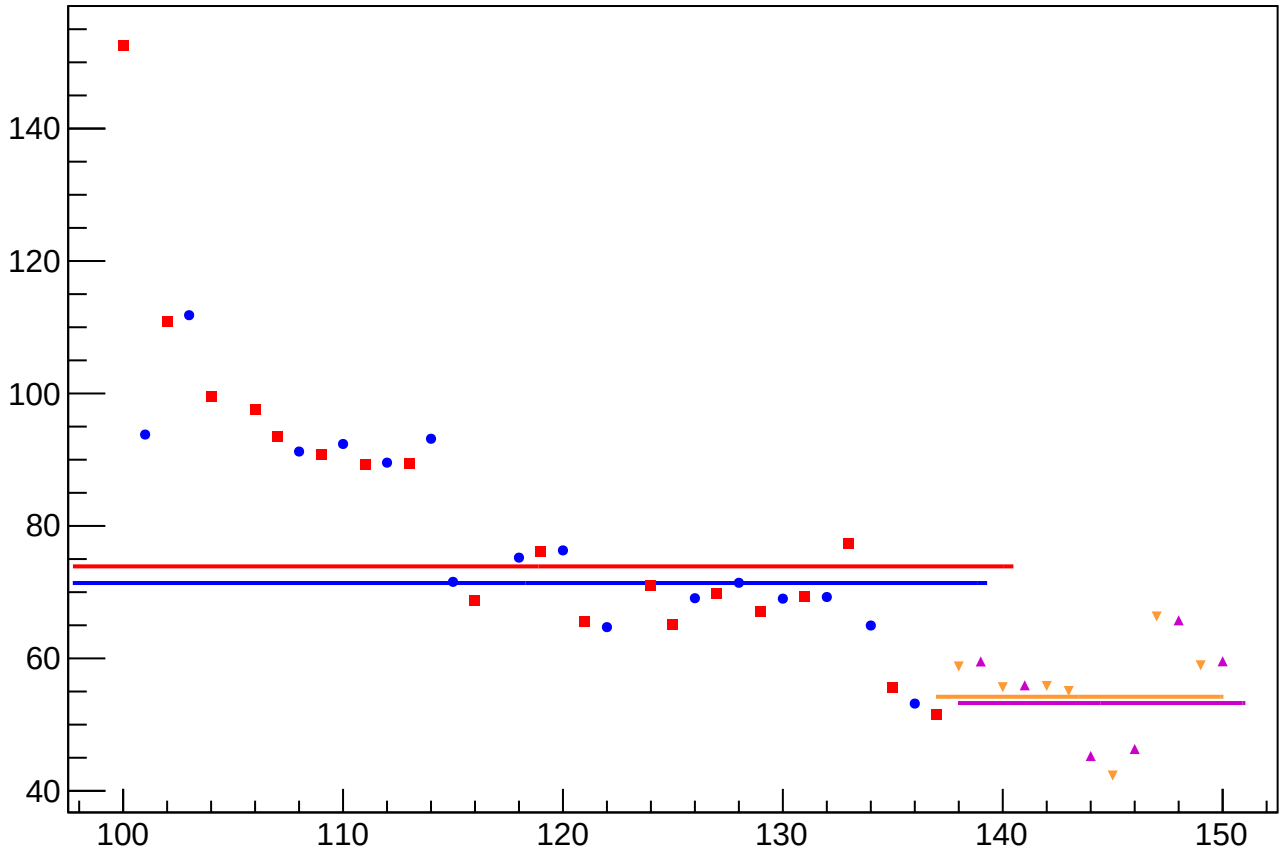
Left: -51.181+/-16.722 $\chi^2$/NDF: 19.6/12

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -54.338+/-17.815 $\chi^2$/NDF:17.9/21

Out: -37.755+/-18.045 $\chi^2$/NDF:27.9/25

All: -46.153+/-12.677 $\chi^2$/NDF: 46.2/47




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 54.209+/-0.017 $\chi^2$/NDF:203387.2/6

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 53.262+/-0.017 $\chi^2$/NDF:197027.2/5

Left: 53.732+/-0.012 $\chi^2$/NDF: 402019.7/12

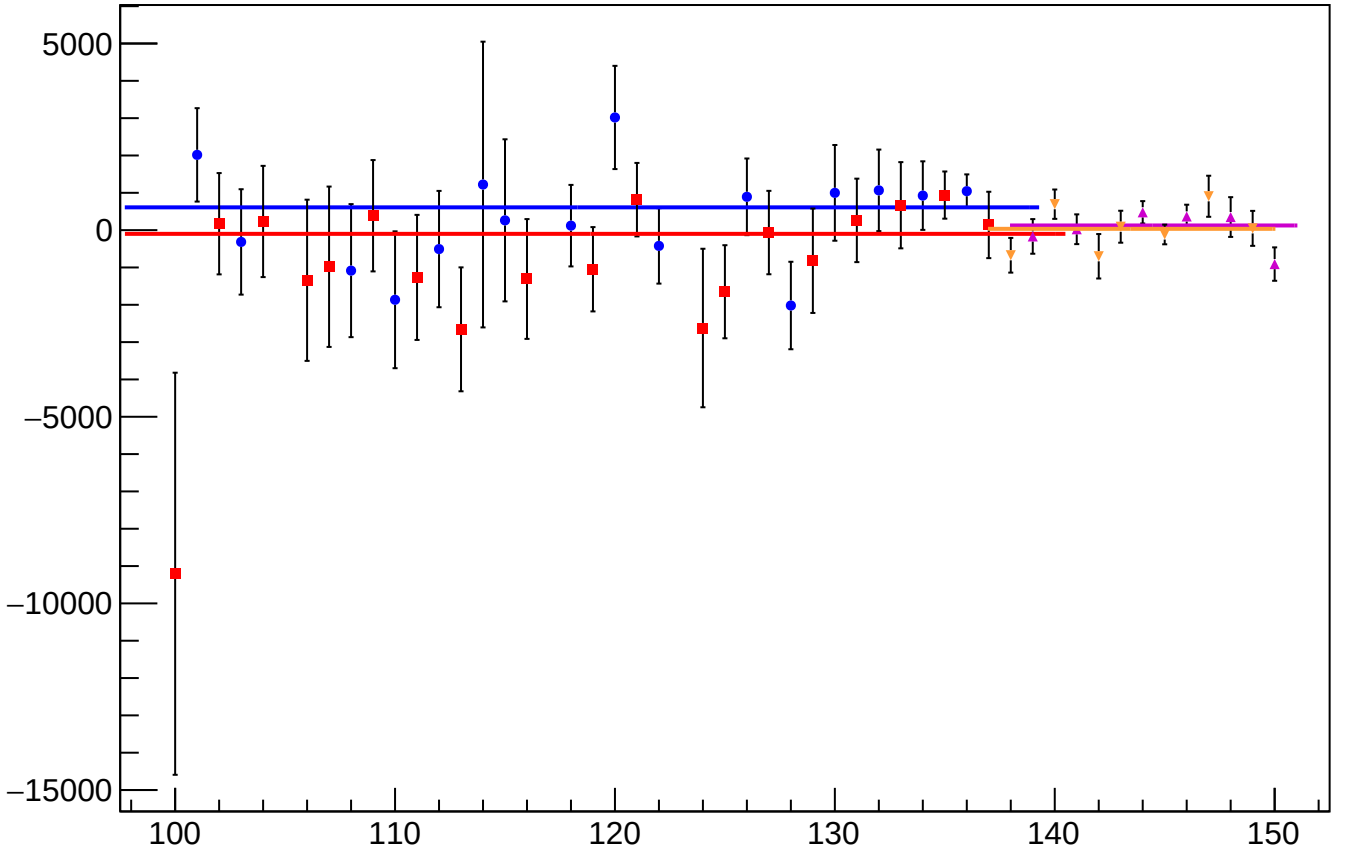
Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 61.028+/-0.013 $\chi^2$/NDF:1294747.2/21

Out: 62.513+/-0.013 $\chi^2$/NDF:1410882.3/25

All: 61.761+/-0.009 $\chi^2$/NDF: 2712488.3/47

asym_sam_15_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: 35.047+/-155.003 $\chi^2$/NDF:9.5/6

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: 125.100+/-156.785 $\chi^2$/NDF:8.0/5

Left: 79.559+/-110.228 $\chi^2$/NDF: 17.7/12

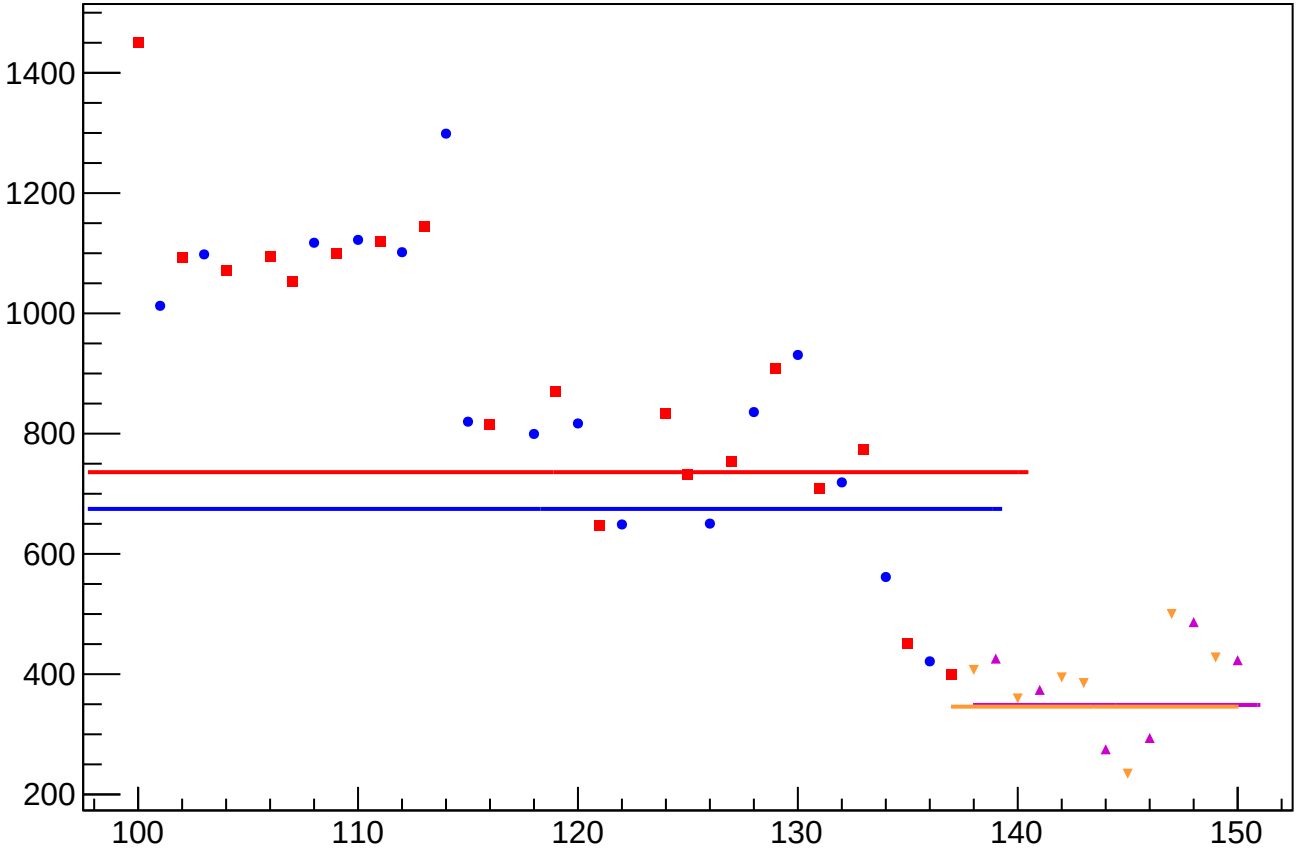
Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 249.708+/-135.173 $\chi^2$/NDF:26.1/21

Out: 4.293+/-136.149 $\chi^2$/NDF:24.8/25

All: 127.883+/-95.925 $\chi^2$/NDF: 52.5/47

asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 345.978+/-0.110 $\chi^2$/NDF:642221.9/6

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 348.796+/-0.111 $\chi^2$/NDF:434386.2/5

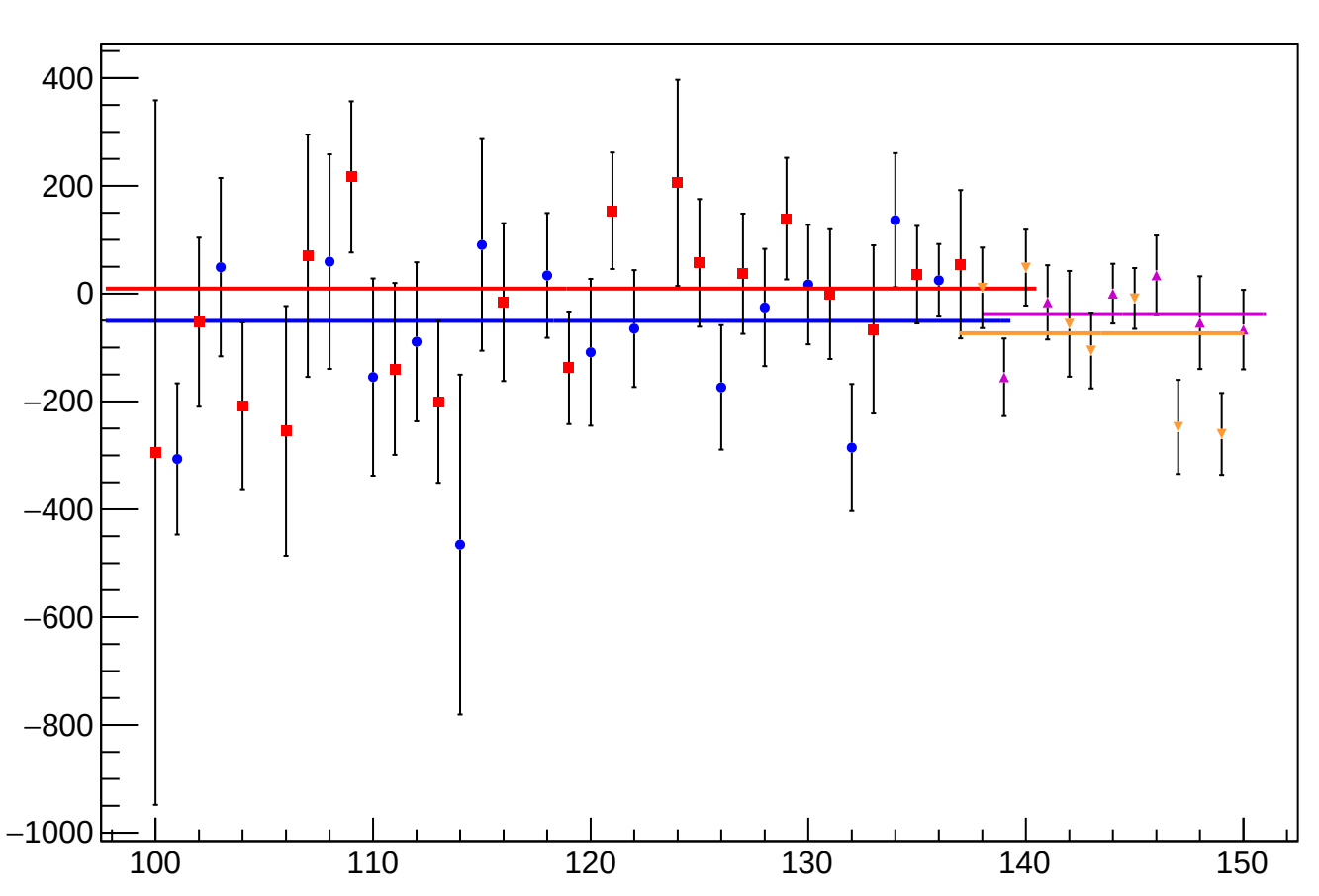
Left: 347.371+/-0.078 $\chi^2$/NDF: 1076934.7/12

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 432.484+/-0.096 $\chi^2$/NDF:4271998.7/21

Out: 435.073+/-0.096 $\chi^2$/NDF:5031203.5/25

All: 433.769+/-0.068 $\chi^2$/NDF: 9303566.3/47




Right In: -50.465+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -73.362+/-27.669 $\chi^2$/NDF:15.8/6

Right Out: 9.380+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -37.878+/-28.497 $\chi^2$/NDF:4.4/5

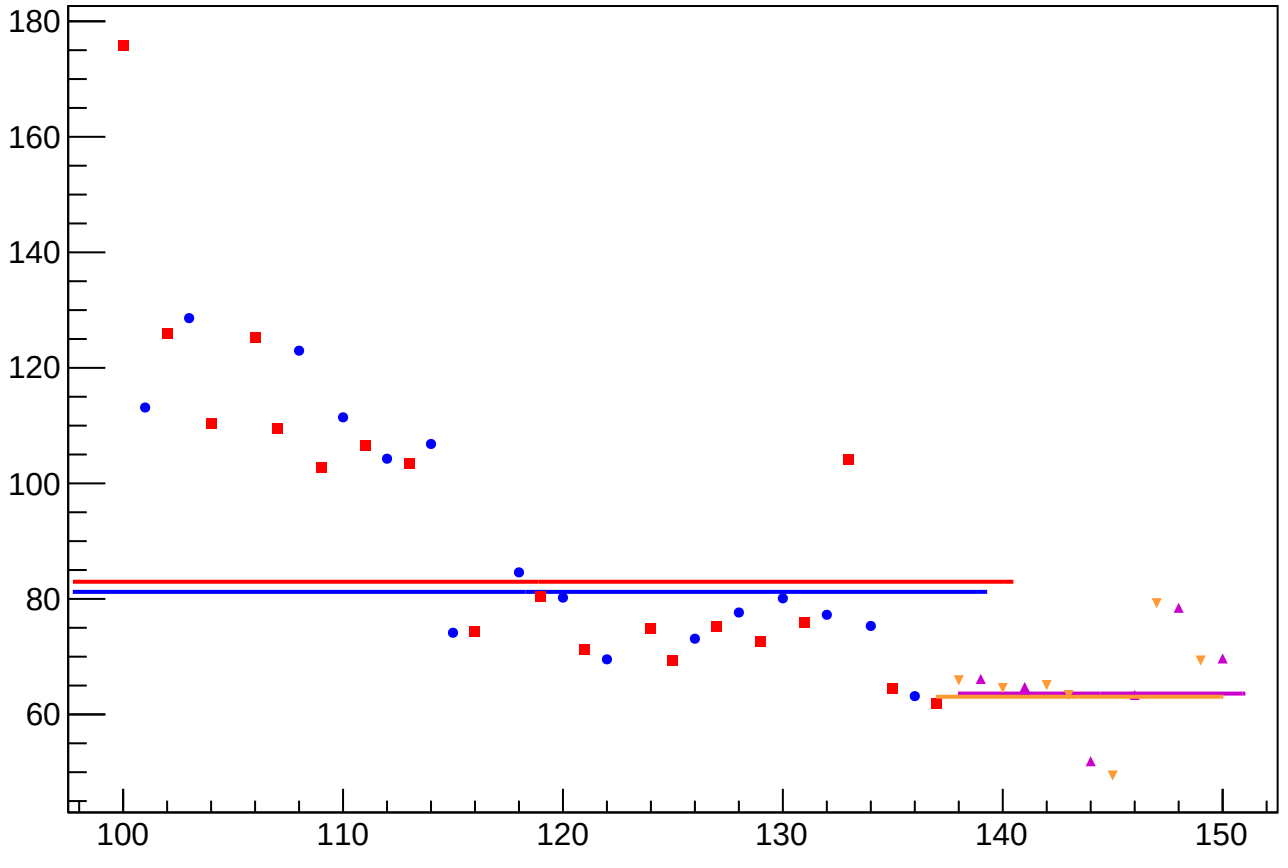
Left: -56.143+/-19.851 $\chi^2$/NDF: 21.0/12

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -43.631+/-20.999 $\chi^2$/NDF:20.9/21

Out: -36.981+/-20.711 $\chi^2$/NDF:35.3/25

All: -40.260+/-14.746 $\chi^2$/NDF: 56.2/47




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662873.6/15

Left Out: 63.061+/-0.020 $\chi^2$/NDF:204441.3/6

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730384.9/18

Left In: 63.610+/-0.020 $\chi^2$/NDF:165530.7/5

Left: 63.327+/-0.014 $\chi^2$/NDF: 370354.9/12

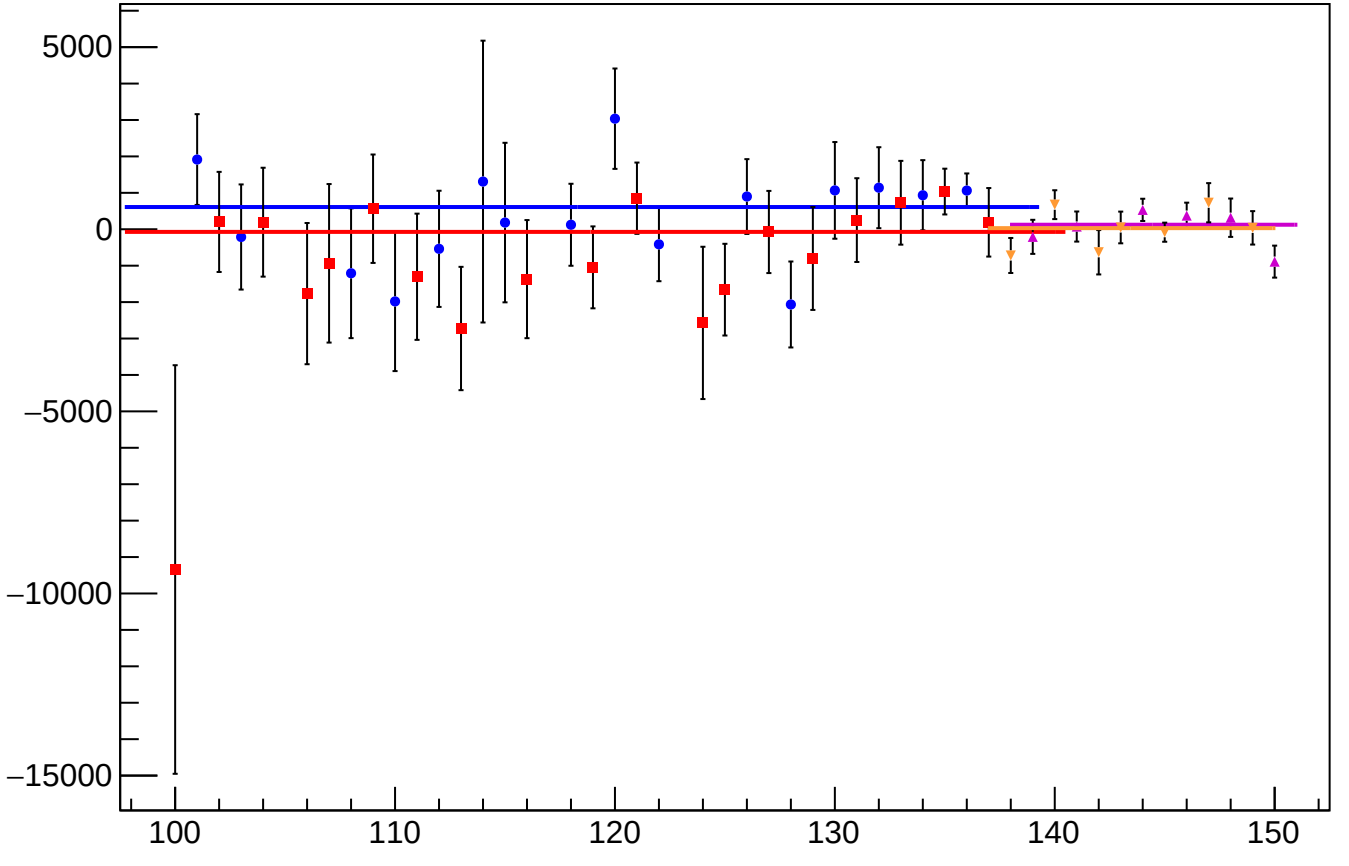
Right: 82.090+/-0.016 $\chi^2$/NDF: 1396425.1/34

In: 71.658+/-0.015 $\chi^2$/NDF:1177363.3/21

Out: 71.815+/-0.015 $\chi^2$/NDF:1390169.3/25

All: 71.737+/-0.010 $\chi^2$/NDF: 2567589.5/47

asym_sam_15_26_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 610.383+/-273.982 $\chi^2$/NDF: 15.8/15

Left Out: 30.658+/-155.402 $\chi^2$/NDF:8.1/6

Right Out: -72.311+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: 124.331+/-162.516 $\chi^2$/NDF:8.3/5

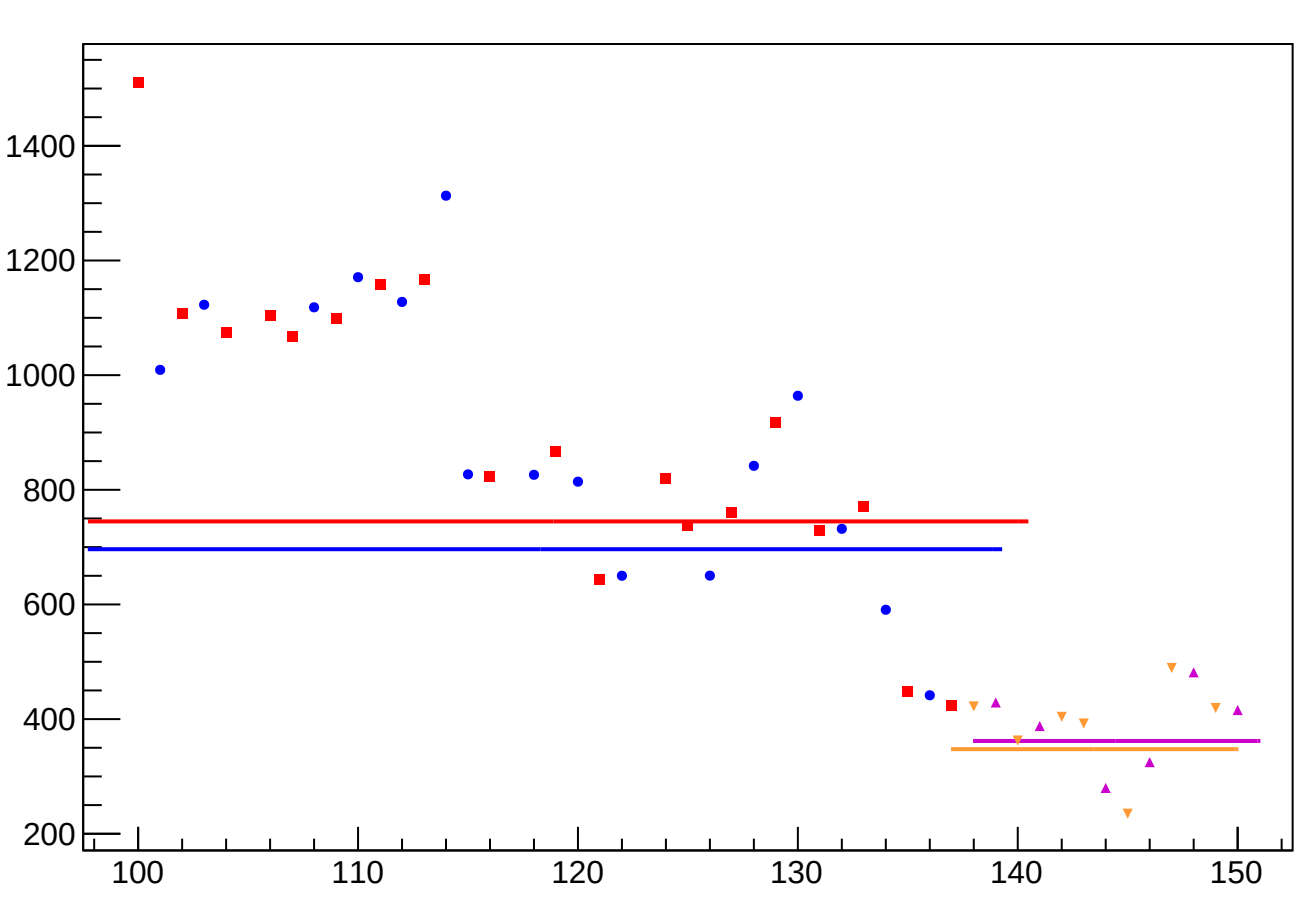
Left: 75.399+/-112.317 $\chi^2$/NDF: 16.6/12

Right: 284.669+/-198.121 $\chi^2$/NDF: 34.9/34

In: 250.835+/-139.776 $\chi^2$/NDF:26.4/21

Out: 7.292+/-136.636 $\chi^2$/NDF:24.4/25

All: 126.297+/-97.708 $\chi^2$/NDF: 52.3/47




Right In: 696.371+/-0.194 $\chi^2$/NDF: 1515478.0/15

Left Out: 347.576+/-0.110 $\chi^2$/NDF:645000.3/6

Right Out: 744.875+/-0.203 $\chi^2$/NDF: 1498361.7/18

Left In: 361.864+/-0.115 $\chi^2$/NDF:348373.5/5

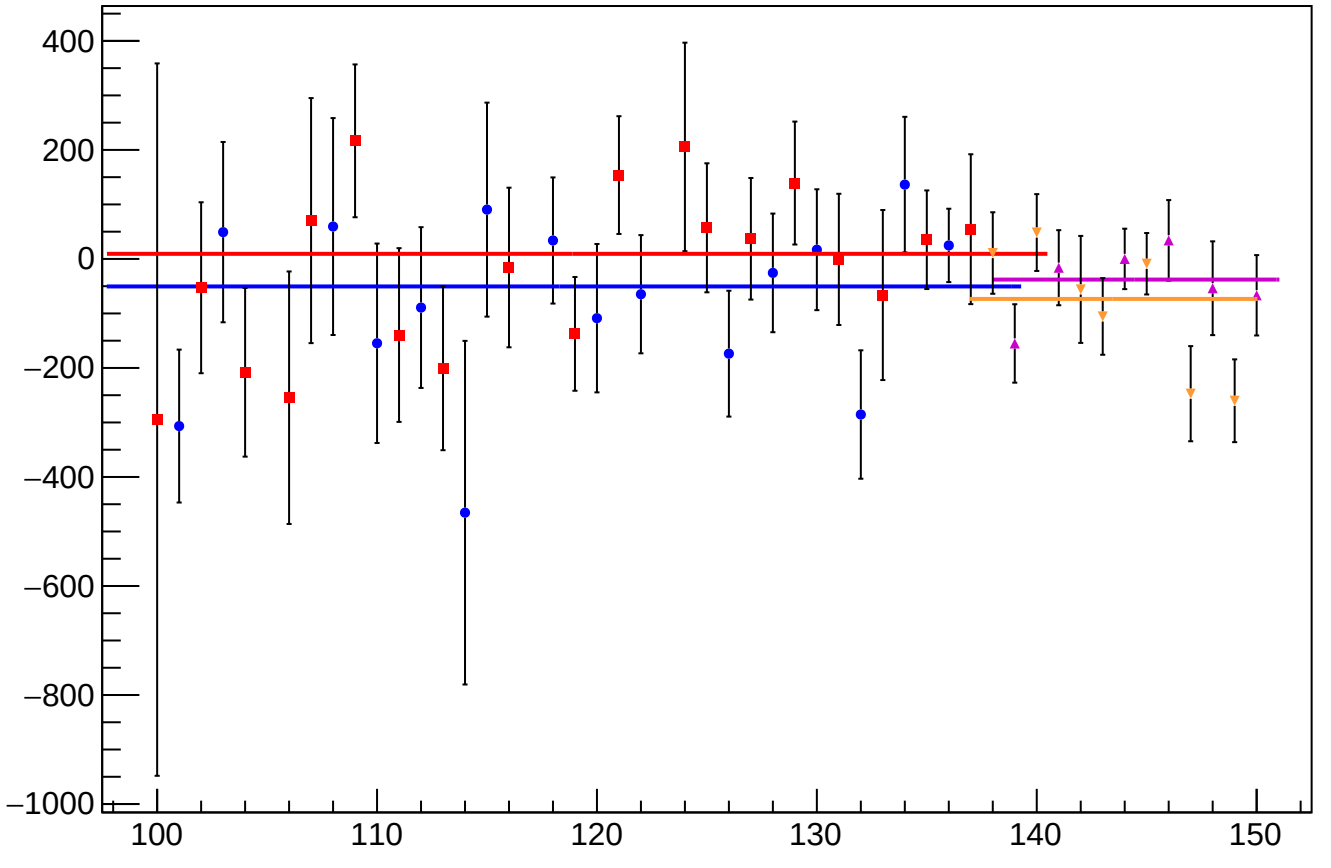
Left: 354.400+/-0.079 $\chi^2$/NDF: 1001449.0/12

Right: 719.512+/-0.140 $\chi^2$/NDF: 3043745.4/34

In: 448.926+/-0.099 $\chi^2$/NDF:4069164.4/21

Out: 437.733+/-0.097 $\chi^2$/NDF:5109807.8/25

All: 443.202+/-0.069 $\chi^2$/NDF: 9185529.9/47




Right In: -50.466+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -73.361+/-27.669 $\chi^2$/NDF:15.8/6

Right Out: 9.381+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -37.877+/-28.497 $\chi^2$/NDF:4.4/5

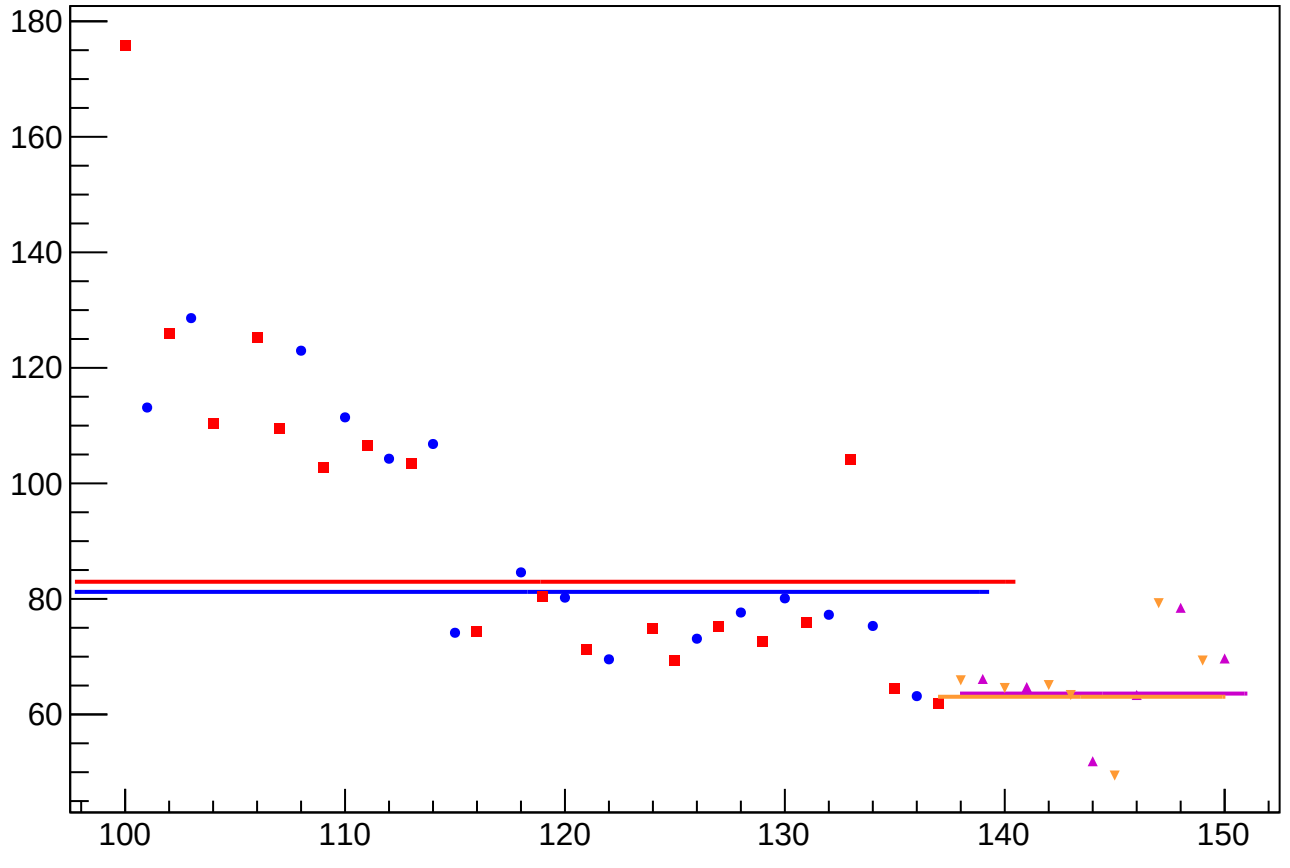
Left: -56.142+/-19.851 $\chi^2$/NDF: 21.0/12

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -43.630+/-20.999 $\chi^2$/NDF:20.9/21

Out: -36.981+/-20.711 $\chi^2$/NDF:35.3/25

All: -40.260+/-14.746 $\chi^2$/NDF: 56.2/47




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662862.1/15

Left Out: 63.061+/-0.020 $\chi^2$/NDF:204437.9/6

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730375.6/18

Left In: 63.611+/-0.020 $\chi^2$/NDF:165531.3/5

Left: 63.328+/-0.014 $\chi^2$/NDF: 370352.1/12

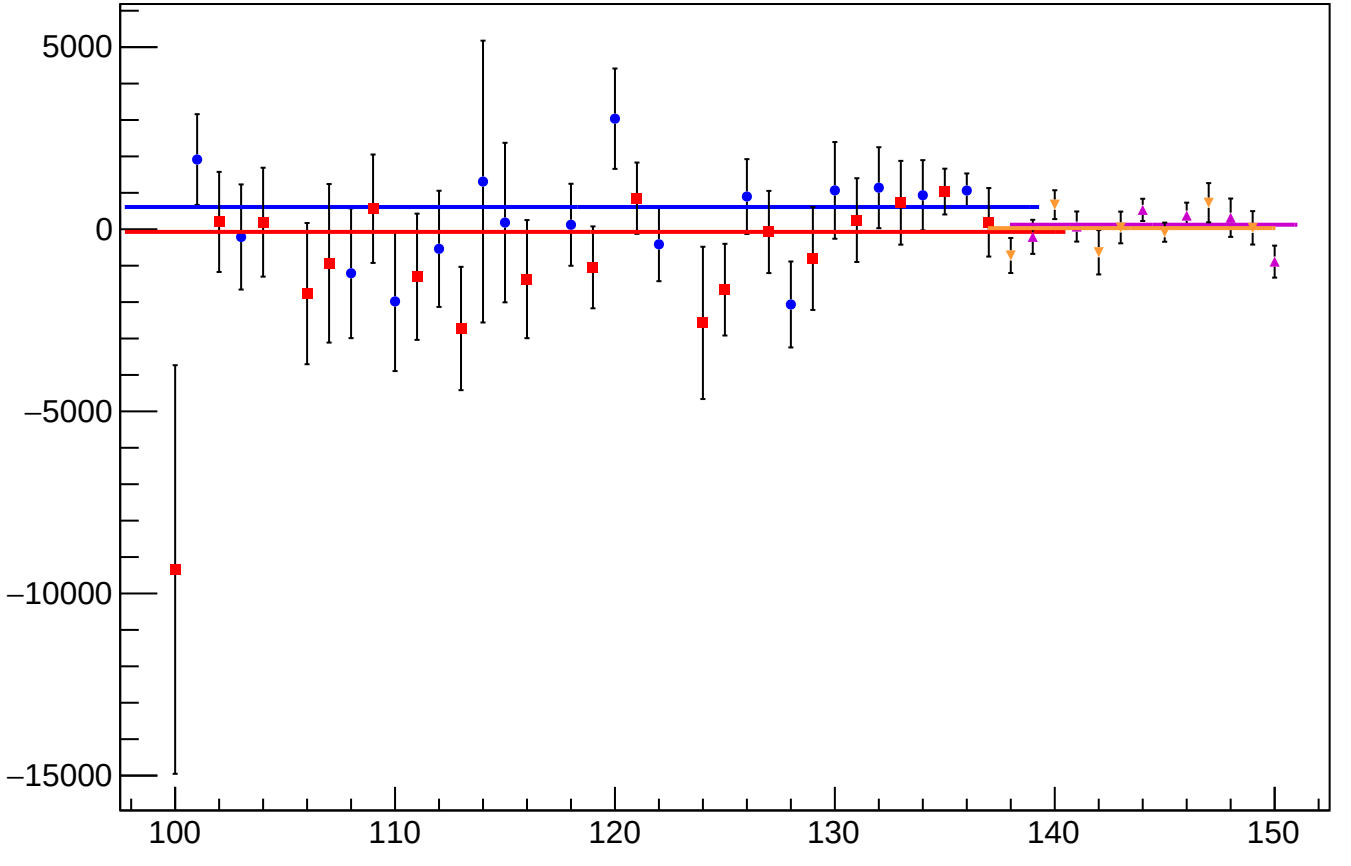
Right: 82.089+/-0.016 $\chi^2$/NDF: 1396405.1/34

In: 71.658+/-0.015 $\chi^2$/NDF:1177324.3/21

Out: 71.815+/-0.015 $\chi^2$/NDF:1390131.4/25

All: 71.737+/-0.010 $\chi^2$/NDF: 2567512.7/47

asym_sam_15_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 610.382+/-273.981 $\chi^2$/NDF: 15.8/15

Left Out: 30.658+/-155.402 $\chi^2$/NDF:8.1/6

Right Out: -72.313+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: 124.332+/-162.516 $\chi^2$/NDF:8.3/5

Left: 75.399+/-112.317 $\chi^2$/NDF: 16.6/12

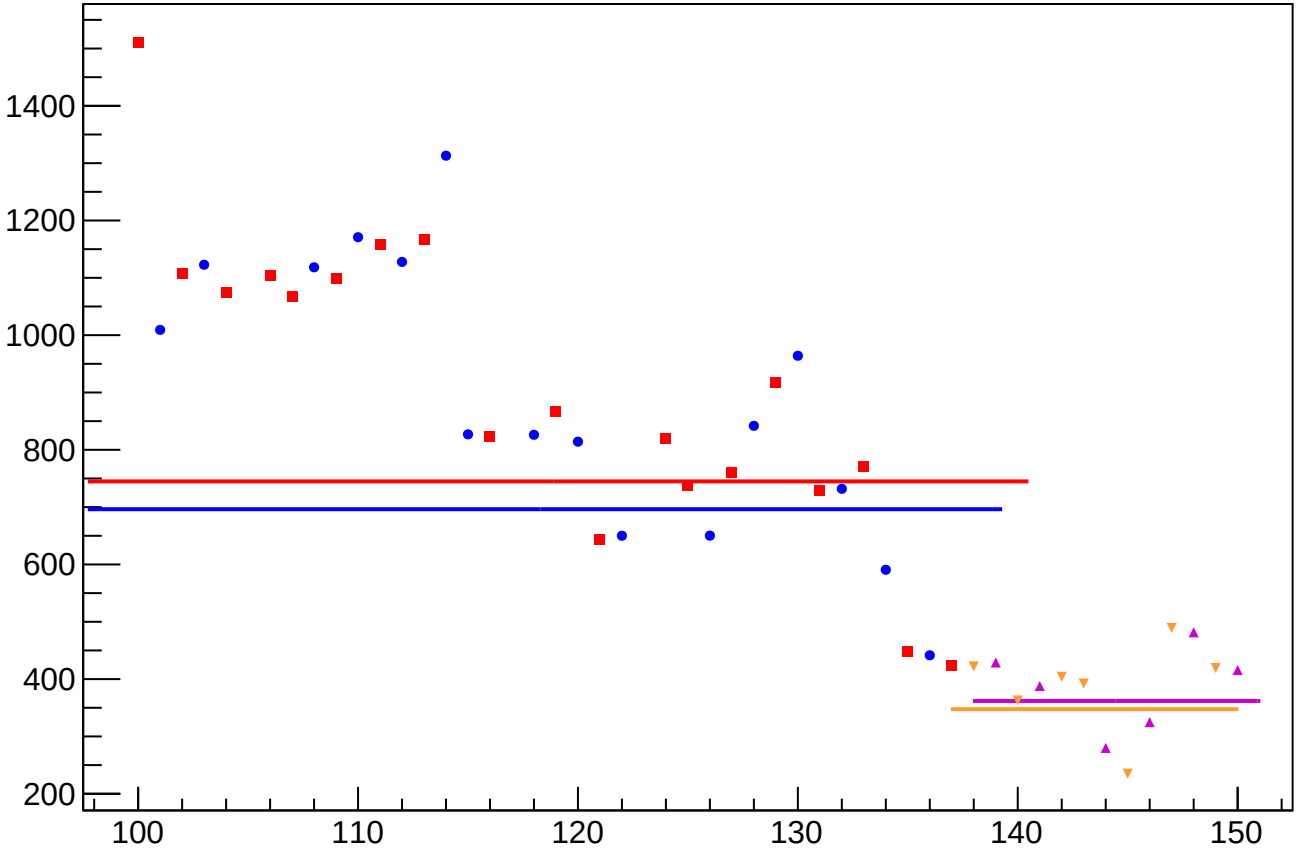
Right: 284.667+/-198.121 $\chi^2$/NDF: 34.9/34

In: 250.836+/-139.776 $\chi^2$/NDF:26.4/21

Out: 7.291+/-136.636 $\chi^2$/NDF:24.4/25

All: 126.297+/-97.708 $\chi^2$/NDF: 52.3/47

asym_sam_15_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 696.370+/-0.194 $\chi^2$/NDF: 1515461.8/15

Left Out: 347.576+/-0.110 $\chi^2$/NDF:645014.4/6

Right Out: 744.874+/-0.203 $\chi^2$/NDF: 1498349.6/18

Left In: 361.864+/-0.115 $\chi^2$/NDF:348377.4/5

Left: 354.400+/-0.079 $\chi^2$/NDF: 1001467.4/12

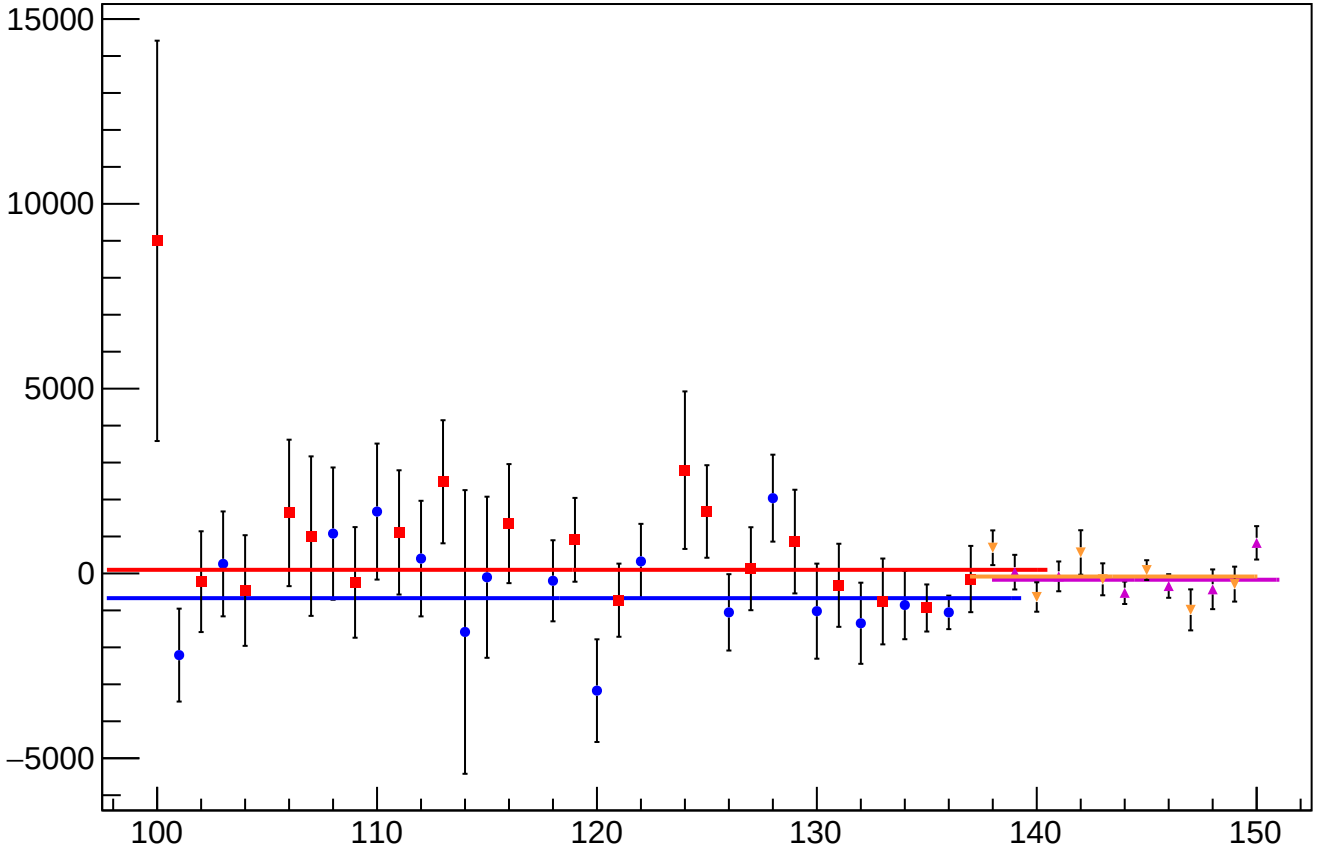
Right: 719.511+/-0.140 $\chi^2$/NDF: 3043716.8/34

In: 448.926+/-0.099 $\chi^2$/NDF:4069147.0/21

Out: 437.733+/-0.097 $\chi^2$/NDF:5109808.1/25

All: 443.202+/-0.069 $\chi^2$/NDF: 9185513.2/47

# asym_sam_15_26_dd_mean vs Slug, Sign Corrected




Right In: -668.503+/-268.452 $\chi^2$/NDF: 16.1/15

Left Out: -83.791+/-156.933 $\chi^2$/NDF:9.1/6

Right Out: 98.003+/-285.882 $\chi^2$/NDF: 14.8/18

Left In: -170.260+/-158.664 $\chi^2$/NDF:7.0/5

Left: -126.551+/-111.575 $\chi^2$/NDF: 16.3/12

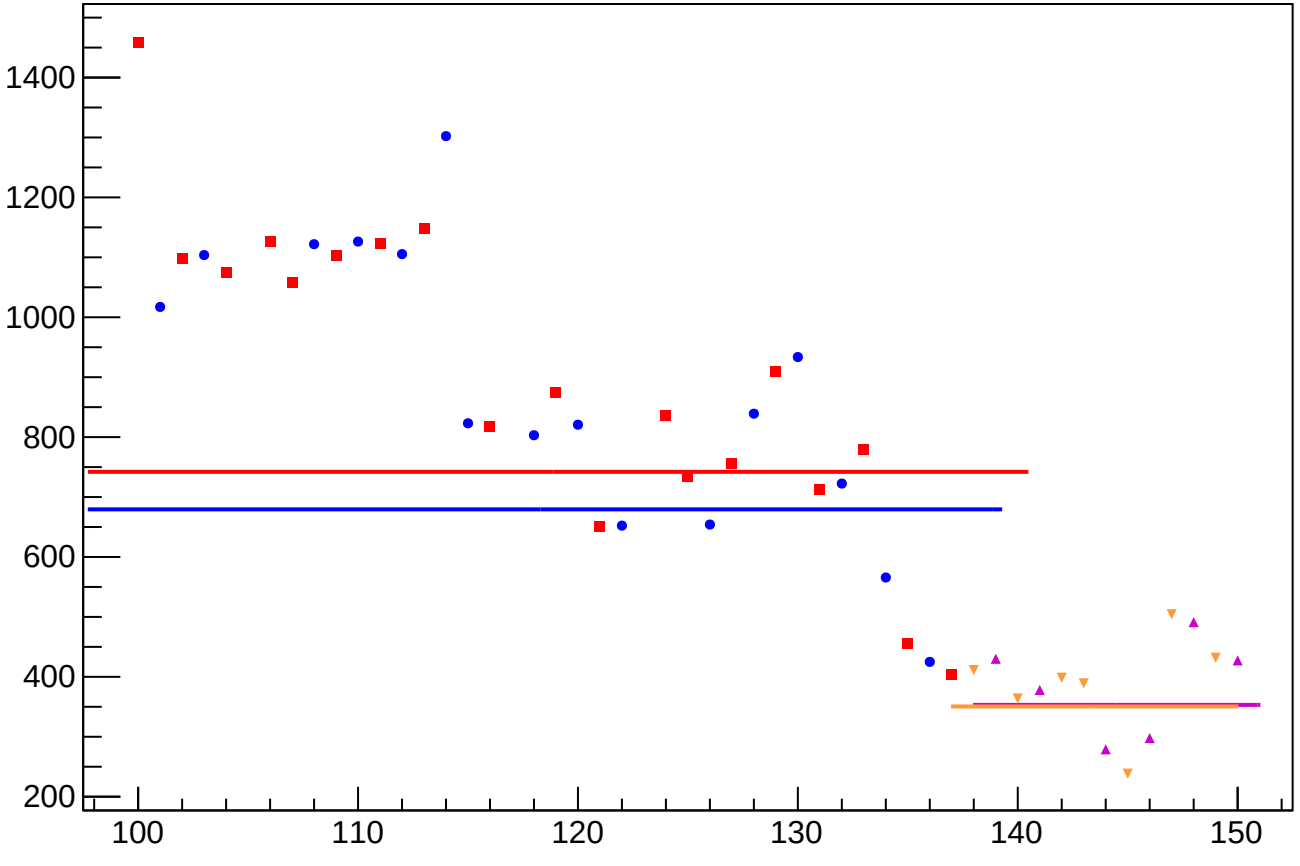
Right: -309.326+/-195.696 $\chi^2$/NDF: 34.8/34

In: -299.248+/-136.591 $\chi^2$/NDF:25.7/21

Out: -41.695+/-137.568 $\chi^2$/NDF:24.3/25

All: -171.390+/-96.928 $\chi^2$/NDF: 51.7/47

# asym_sam_15_26_dd_rms vs Slug, Sign Corrected




Right In: 679.469+/-0.190 $\chi^2$/NDF: 1600922.1/15

Left Out: 350.566+/-0.111 $\chi^2$/NDF:627565.7/6

Right Out: 742.081+/-0.202 $\chi^2$/NDF: 1504391.2/18

Left In: 353.169+/-0.112 $\chi^2$/NDF:426826.0/5

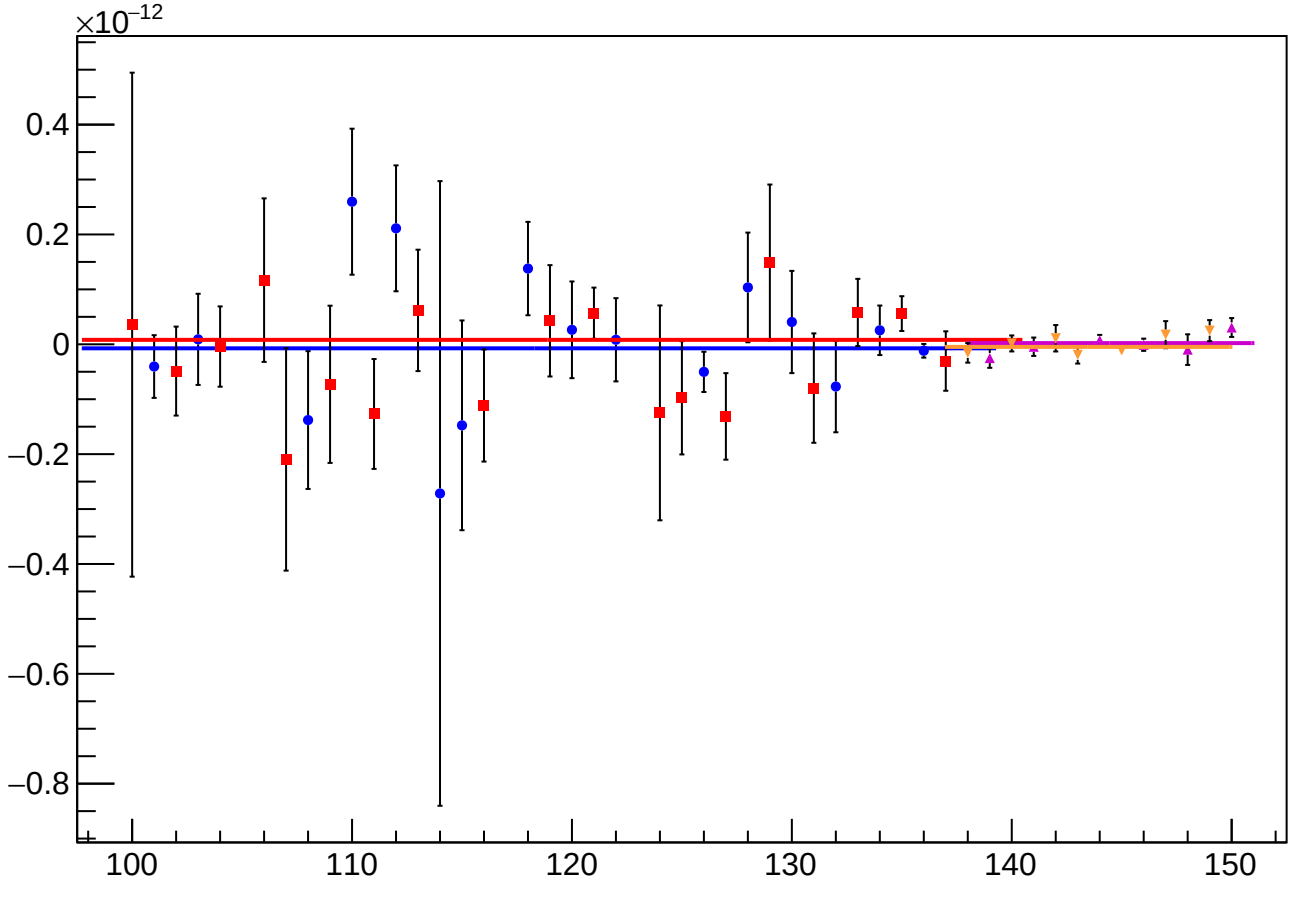
Left: 351.853+/-0.079 $\chi^2$/NDF: 1054663.6/12

Right: 708.808+/-0.138 $\chi^2$/NDF: 3156293.3/34

In: 437.643+/-0.097 $\chi^2$/NDF:4217604.3/21

Out: 441.225+/-0.097 $\chi^2$/NDF:5014415.2/25

All: 439.421+/-0.069 $\chi^2$/NDF: 9232702.5/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.7/5

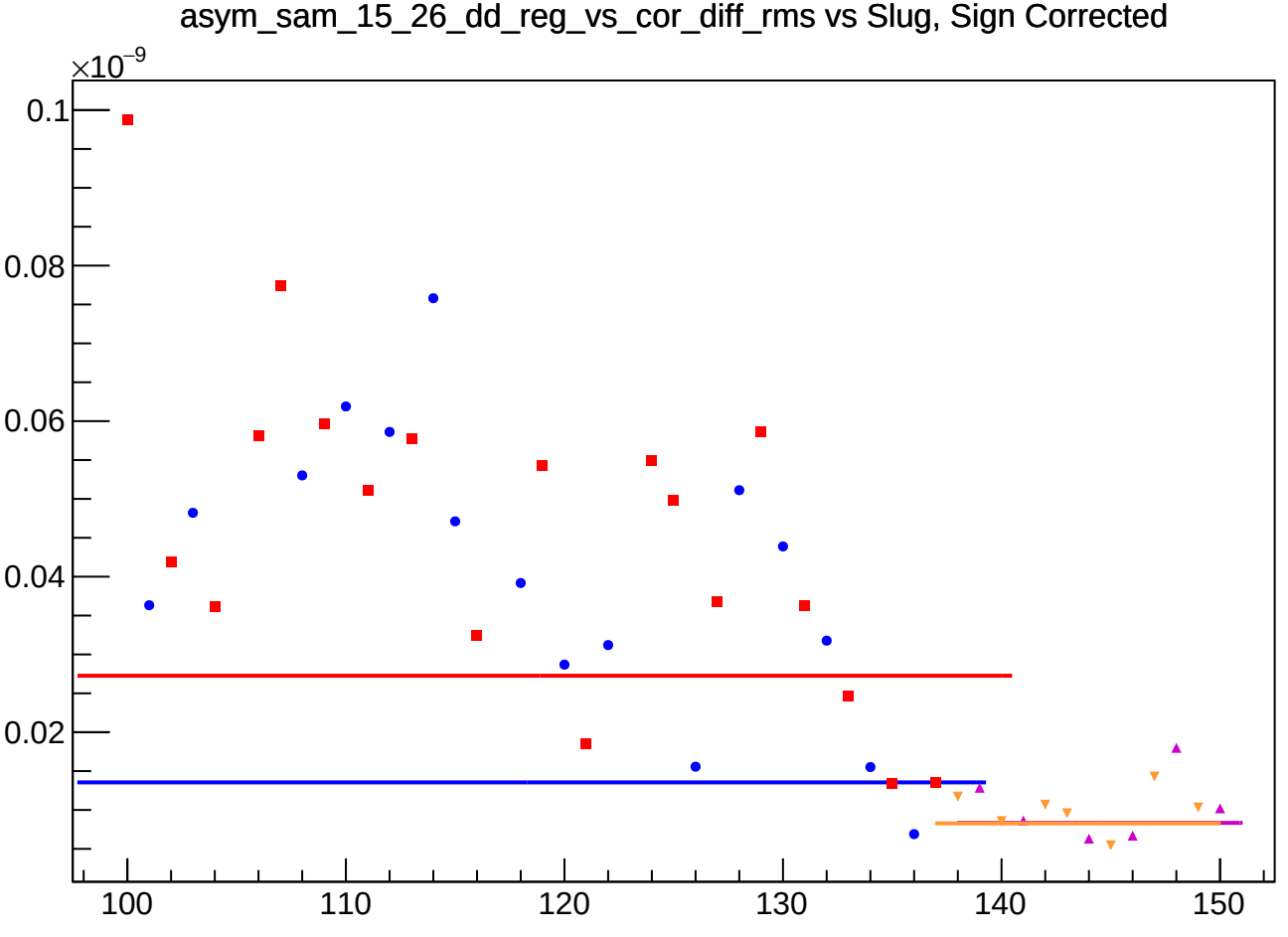
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 46.8/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3045220.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:455459.1/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1735739.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:520821.1/5

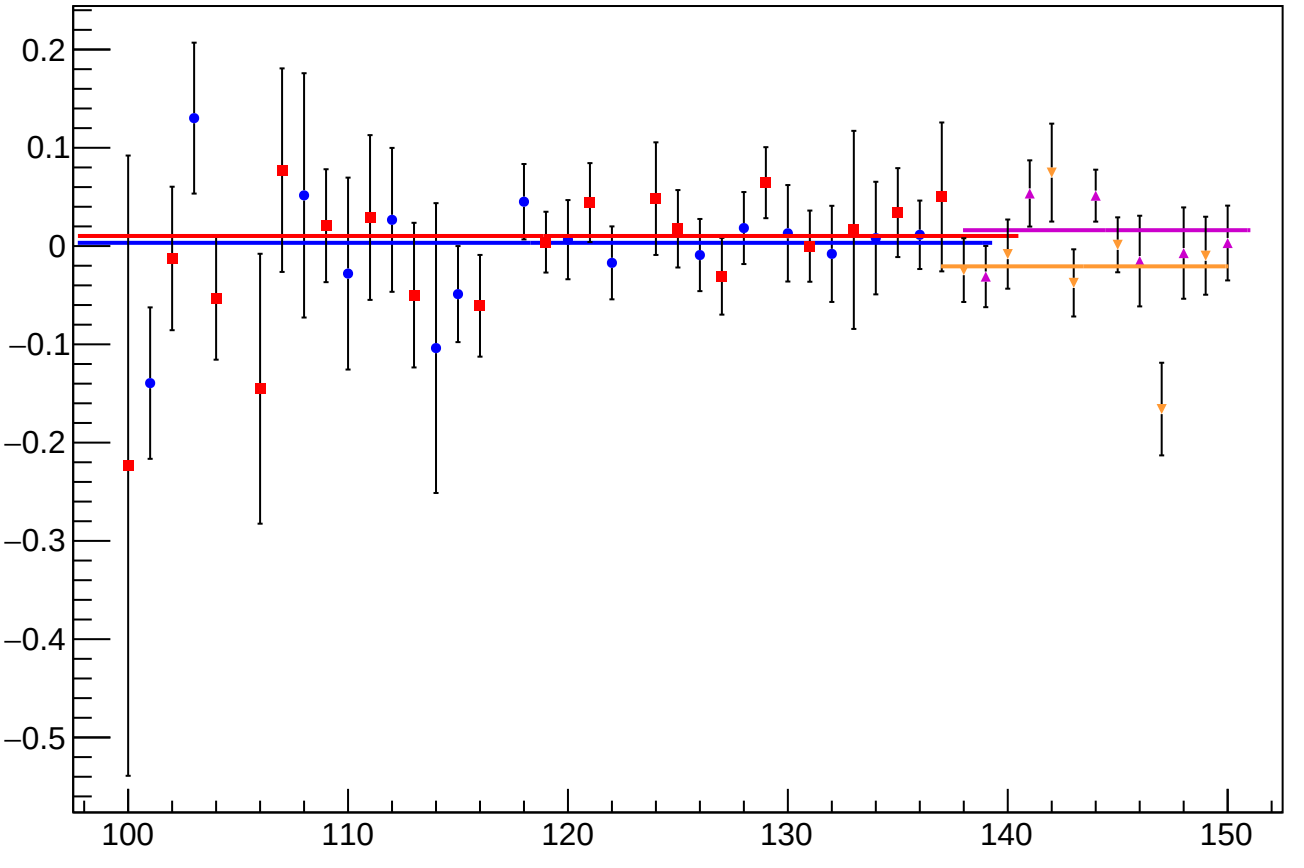
Left: 0.000+/-0.000 $\chi^2$/NDF: 976404.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5700569.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3944855.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4360036.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8316593.2/47




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.021+/-0.014 $\chi^2$/NDF:14.2/6

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.016+/-0.014 $\chi^2$/NDF:6.1/5

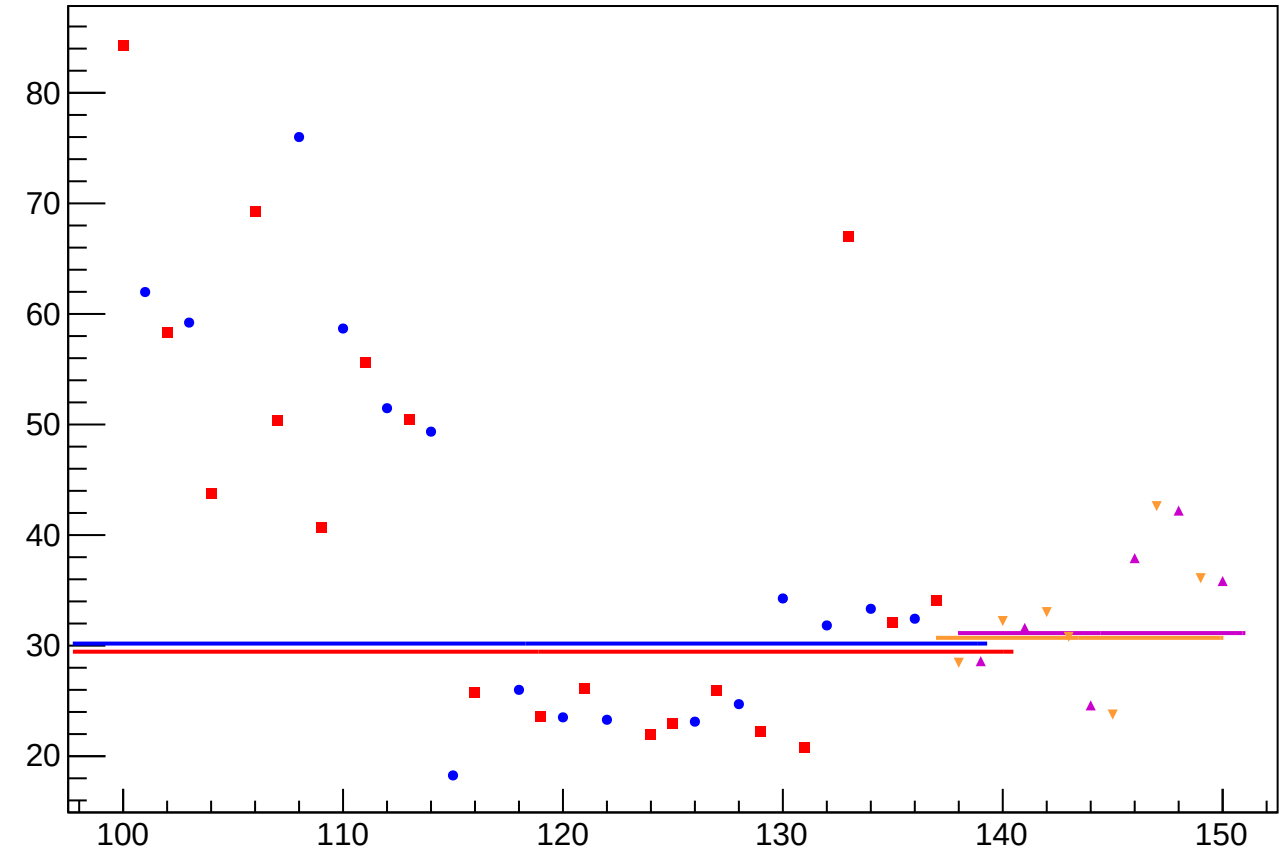
Left: -0.003+/-0.010 $\chi^2$/NDF: 23.9/12

Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.009+/-0.009 $\chi^2$/NDF:16.7/21

Out: -0.003+/-0.009 $\chi^2$/NDF:28.4/25

All: 0.003+/-0.006 $\chi^2$/NDF: 46.0/47




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687373.5/15

Left Out: 30.706+/-0.010 $\chi^2$/NDF:305626.9/6

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 31.136+/-0.010 $\chi^2$/NDF:323569.7/5

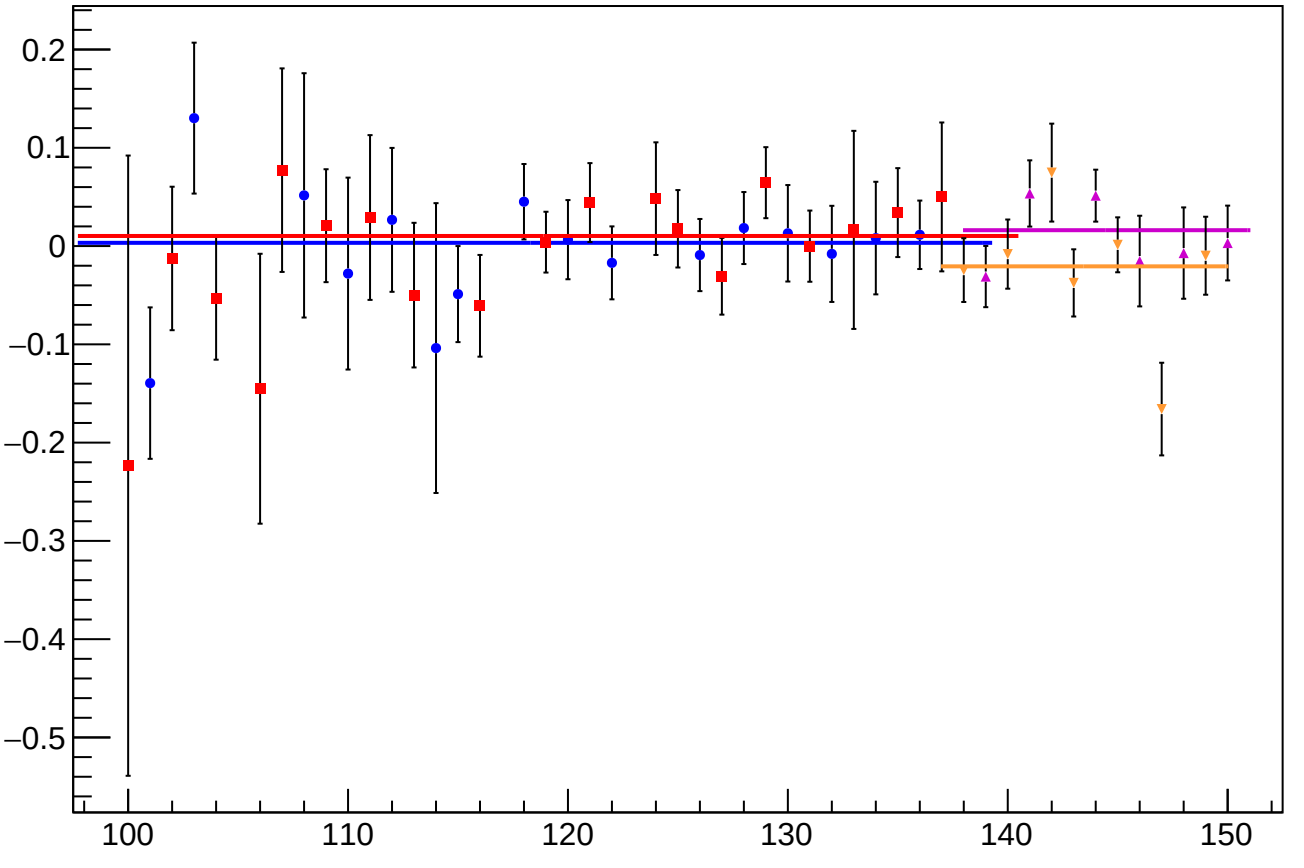
Left: 30.912+/-0.007 $\chi^2$/NDF: 630152.6/12

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

In: 30.593+/-0.007 $\chi^2$/NDF:2016061.7/21

Out: 29.990+/-0.006 $\chi^2$/NDF:2163935.3/25

All: 30.280+/-0.005 $\chi^2$/NDF: 4184389.2/47




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.021+/-0.014 $\chi^2$/NDF:14.2/6

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.016+/-0.014 $\chi^2$/NDF:6.1/5

Left: -0.003+/-0.010 $\chi^2$/NDF: 23.9/12

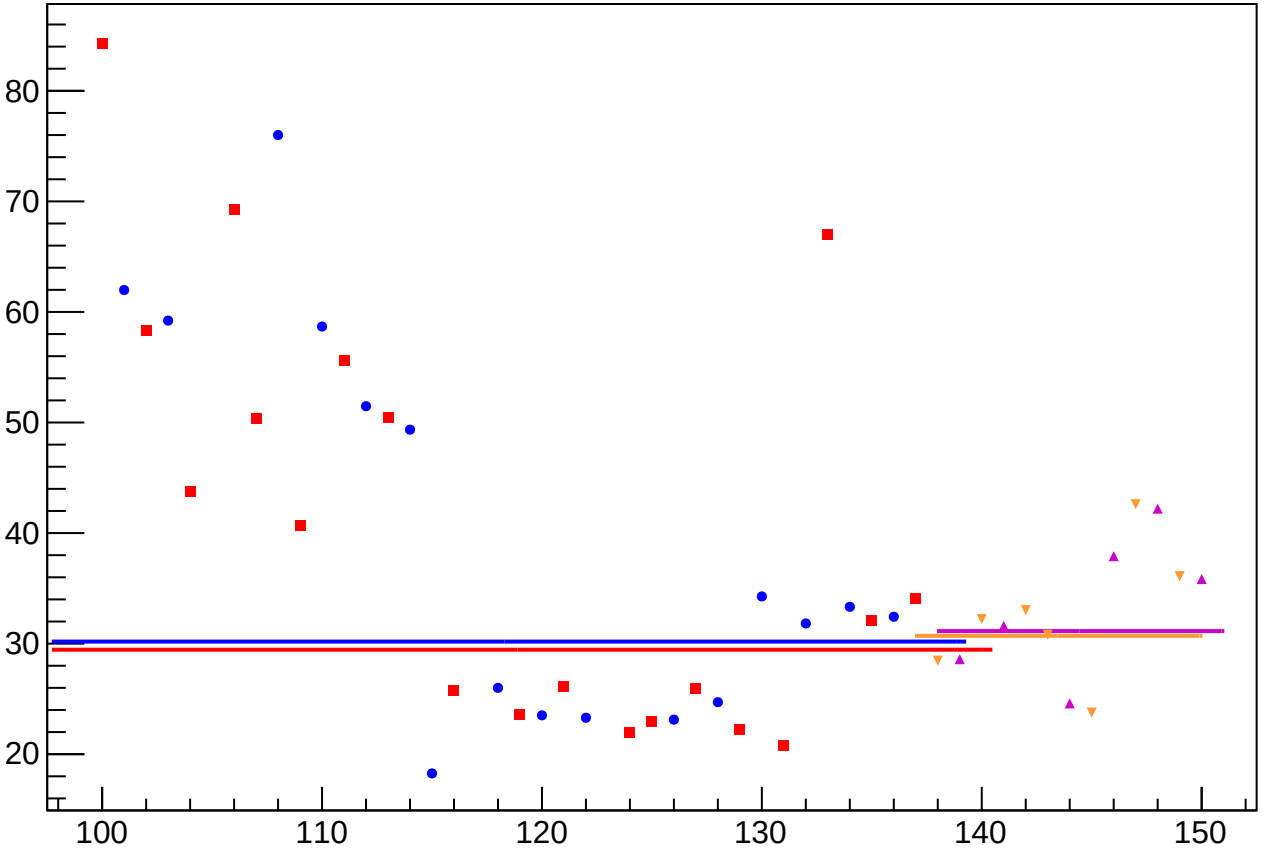
Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.009+/-0.009 $\chi^2$/NDF:16.7/21

Out: -0.003+/-0.009 $\chi^2$/NDF:28.4/25

All: 0.003+/-0.006 $\chi^2$/NDF: 46.0/47

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687373.5/15

Left Out: 30.706+/-0.010 $\chi^2$/NDF:305626.9/6

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 31.136+/-0.010 $\chi^2$/NDF:323569.7/5

Left: 30.912+/-0.007 $\chi^2$/NDF: 630152.6/12

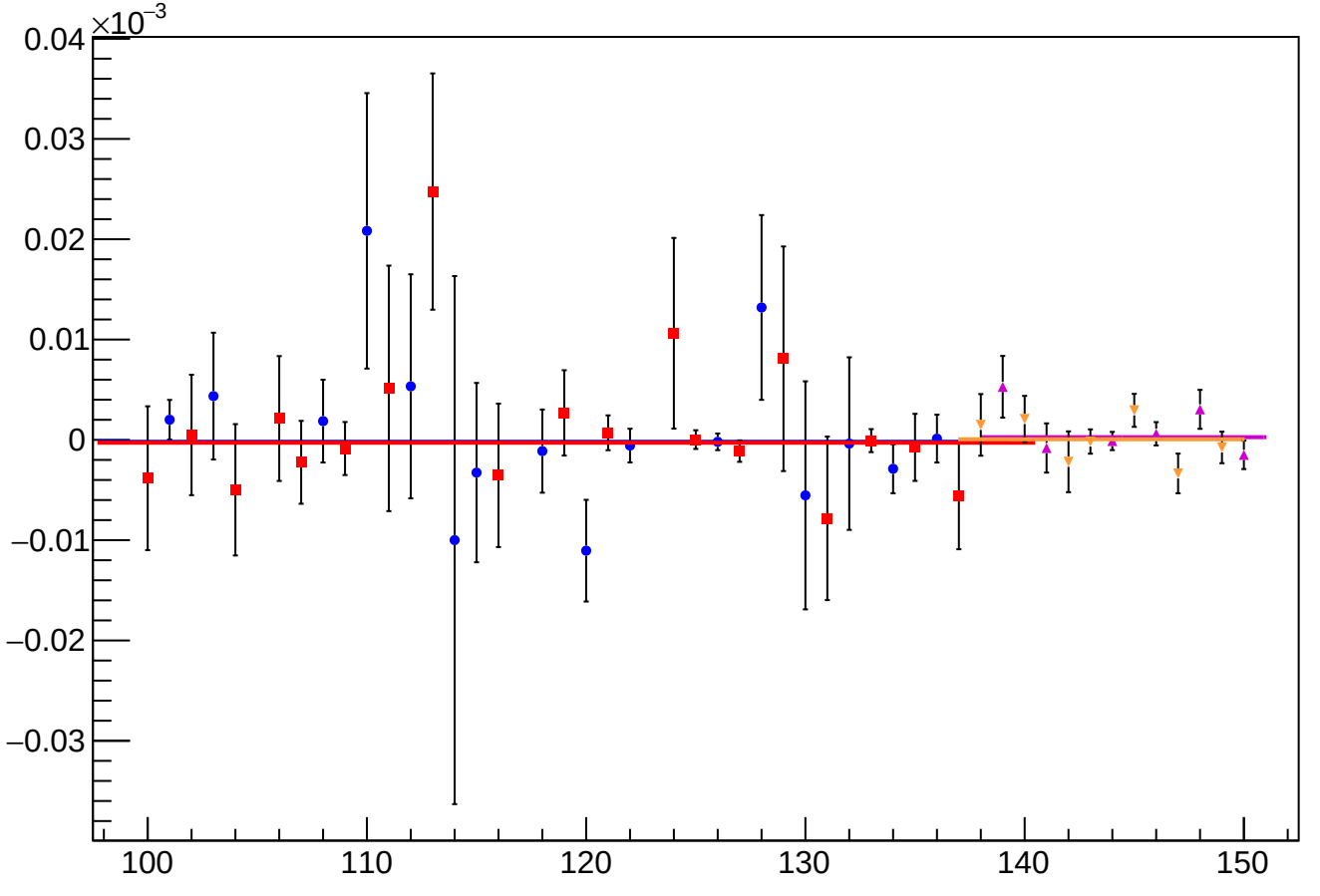
Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

In: 30.593+/-0.007 $\chi^2$/NDF:2016061.7/21

Out: 29.990+/-0.006 $\chi^2$/NDF:2163935.3/25

All: 30.280+/-0.005 $\chi^2$/NDF: 4184389.2/47

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.9/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.7/5

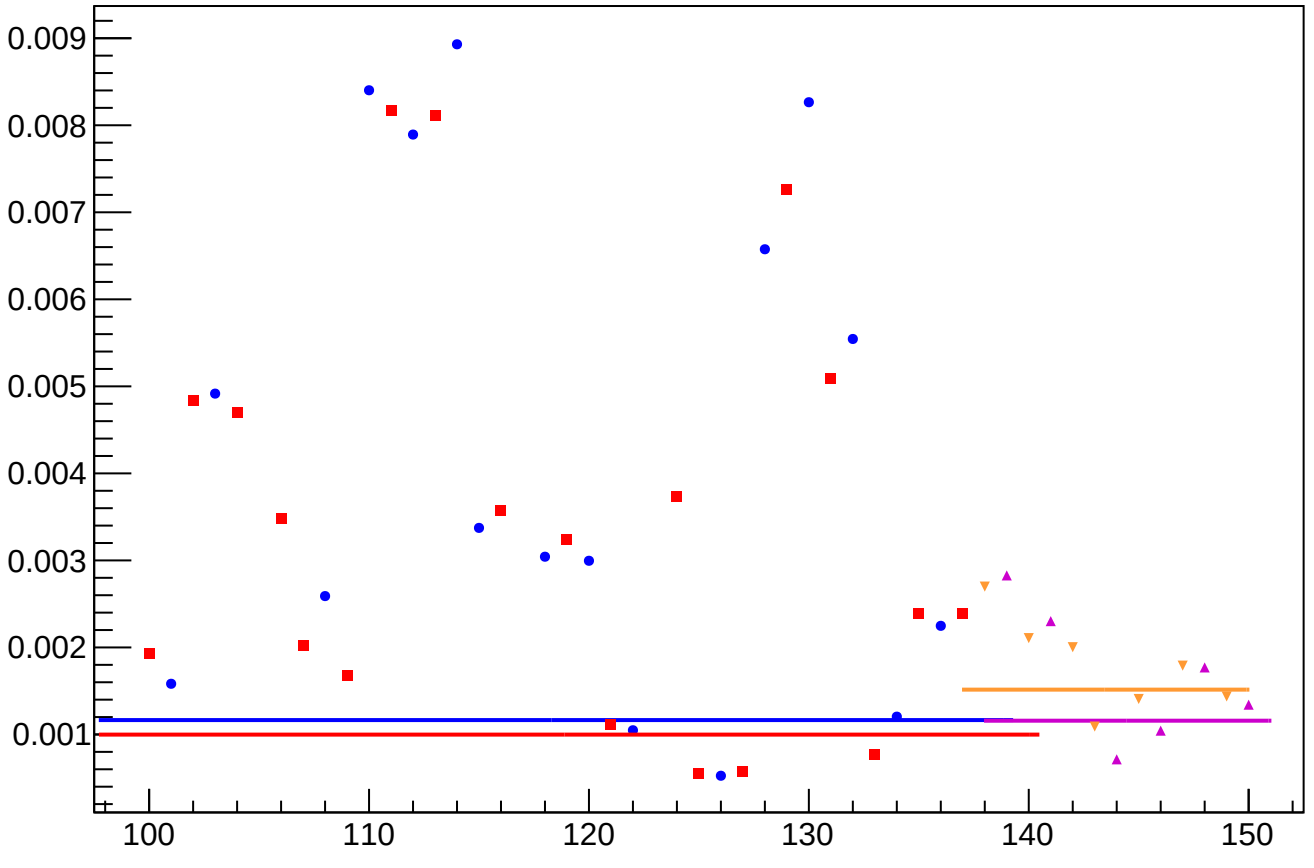
Left: 0.000+/-0.000 $\chi^2$/NDF: 14.6/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 24.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:19.5/25

All: -0.000+/-0.000 $\chi^2$/NDF: 39.7/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6881775.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:777841.6/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6937197.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1750579.6/5

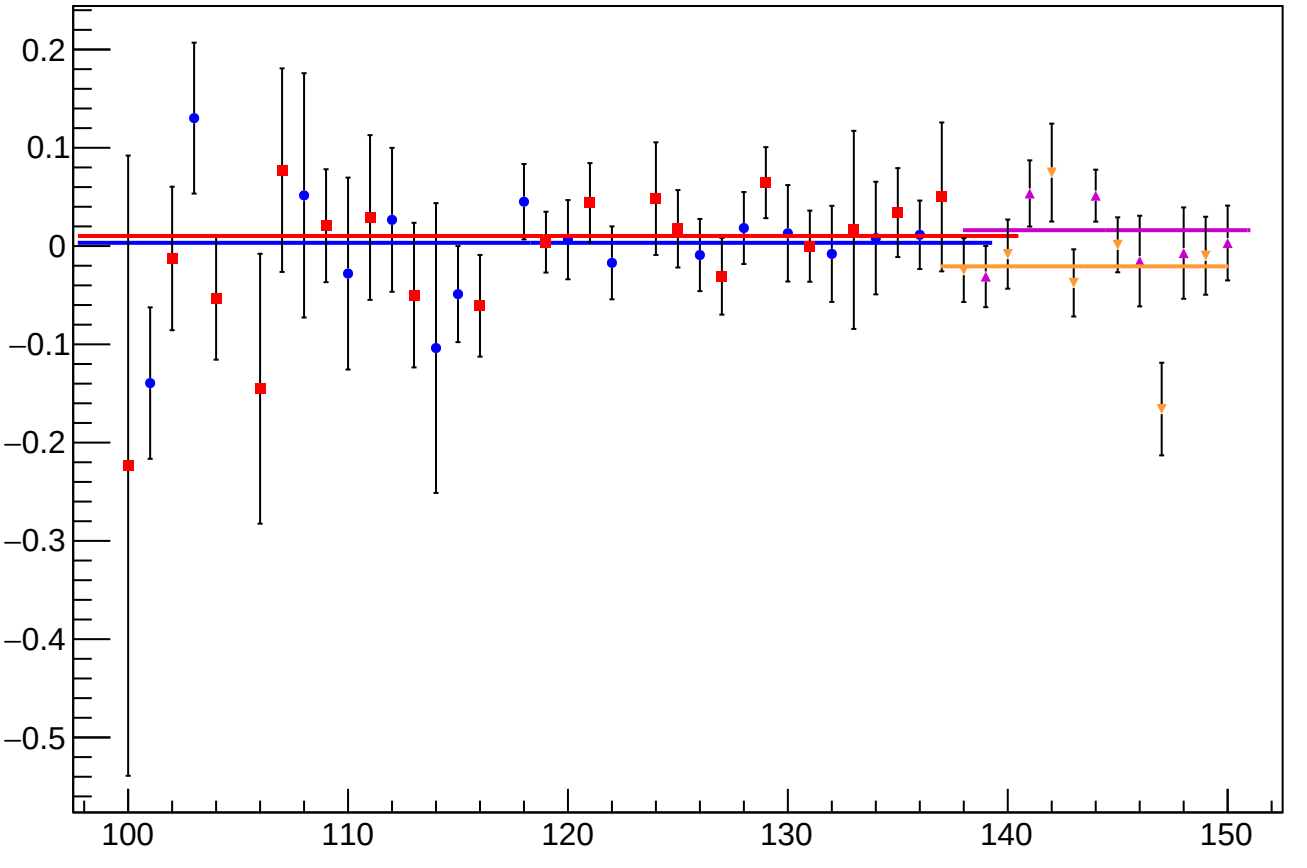
Left: 0.001+/-0.000 $\chi^2$/NDF: 2843540.5/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 13904727.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:8632495.9/21

Out: 0.001+/-0.000 $\chi^2$/NDF:8431397.6/25

All: 0.001+/-0.000 $\chi^2$/NDF: 17067707.5/47




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.021+/-0.014 $\chi^2$/NDF:14.2/6

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.016+/-0.014 $\chi^2$/NDF:6.1/5

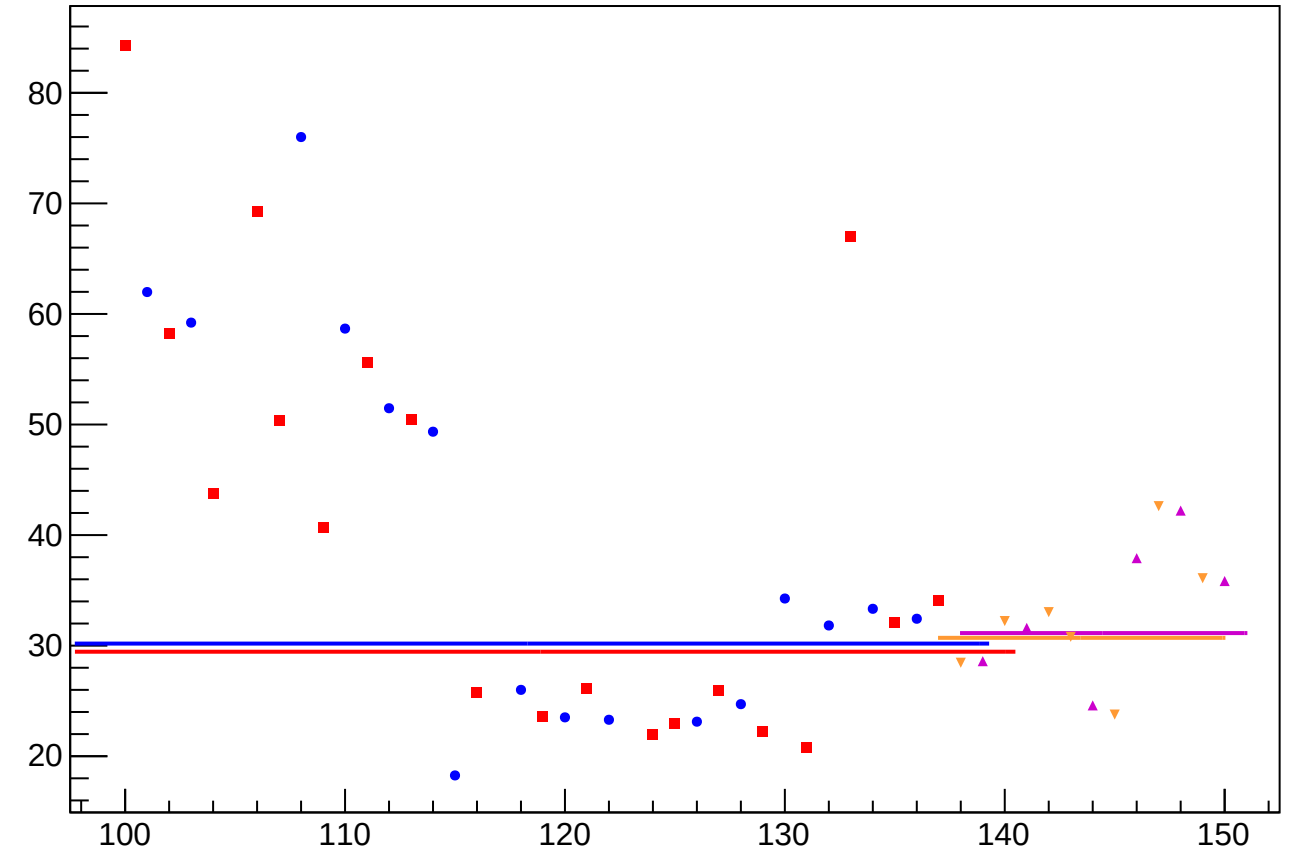
Left: -0.003+/-0.010 $\chi^2$/NDF: 23.9/12

Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.009+/-0.009 $\chi^2$/NDF:16.7/21

Out: -0.003+/-0.009 $\chi^2$/NDF:28.4/25

All: 0.003+/-0.006 $\chi^2$/NDF: 46.0/47




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687188.2/15

Left Out: 30.706+/-0.010 $\chi^2$/NDF:305608.3/6

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 31.137+/-0.010 $\chi^2$/NDF:323568.2/5

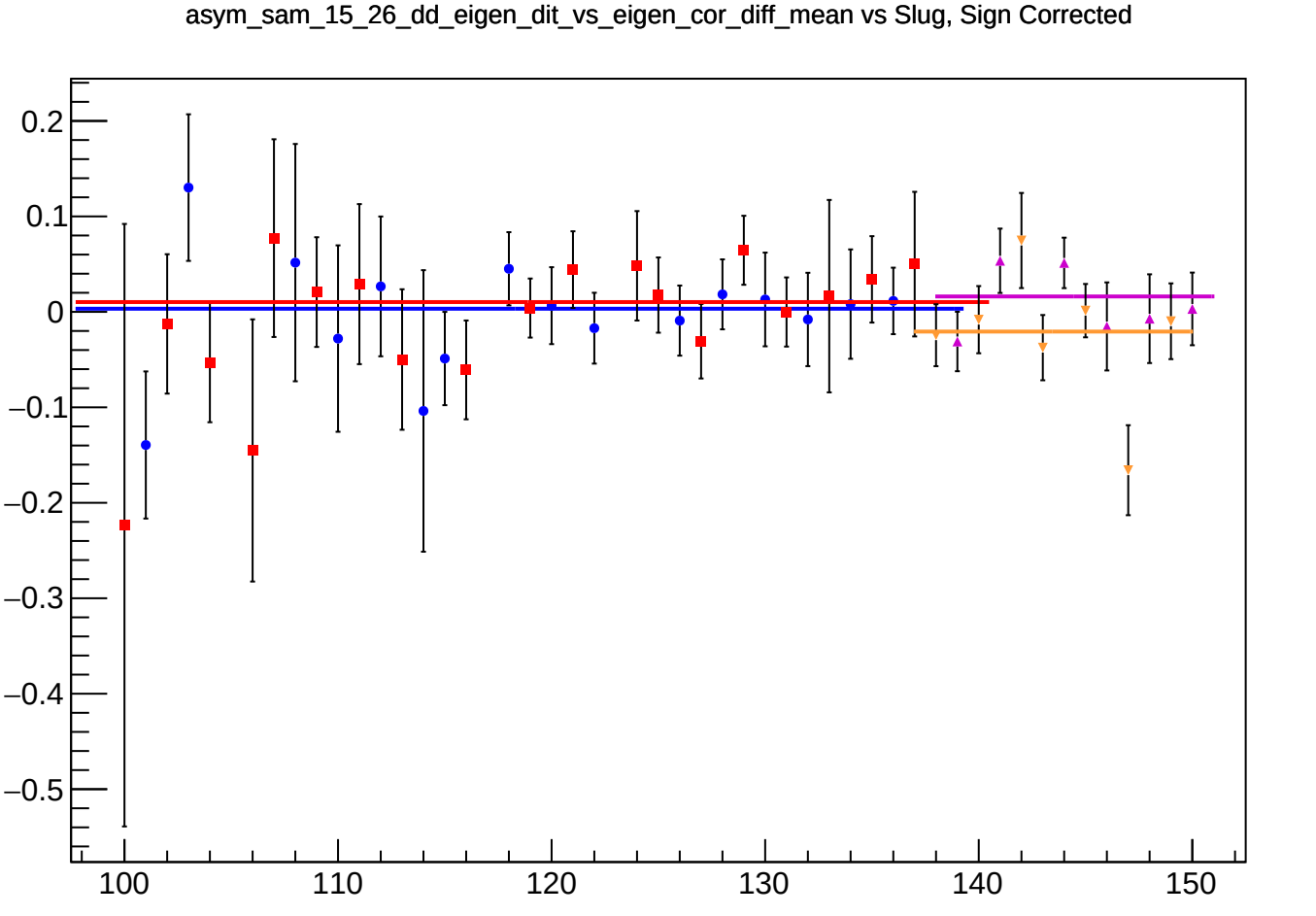
Left: 30.913+/-0.007 $\chi^2$/NDF: 630132.3/12

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

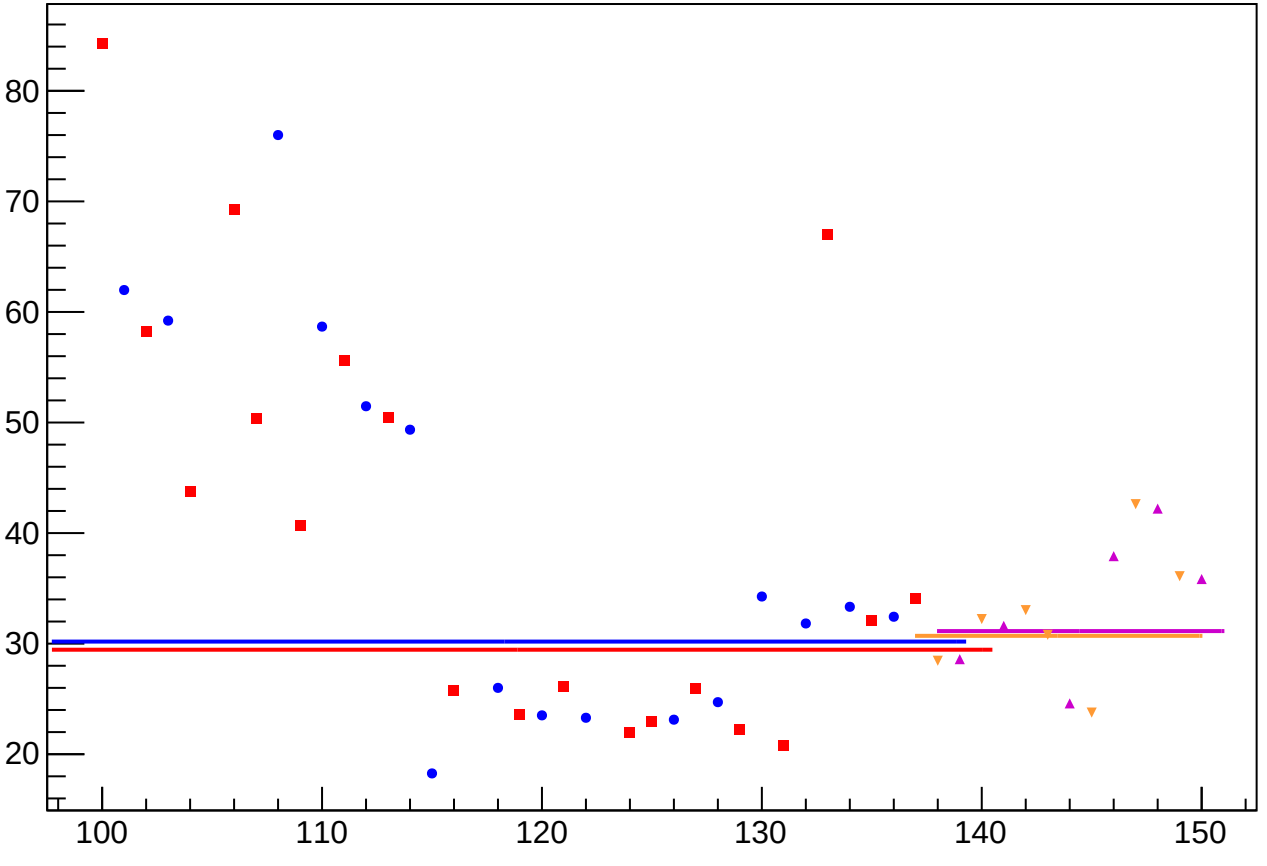
In: 30.594+/-0.007 $\chi^2$/NDF:2015879.3/21

Out: 29.990+/-0.006 $\chi^2$/NDF:2163929.2/25

All: 30.280+/-0.005 $\chi^2$/NDF: 4184205.8/47


asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
100
110
120
130
140
150
Right In: 0.003+/-0.012 χ²/NDF: 10.1/15
Left Out: -0.021+/-0.014 χ²/NDF:14.2/6
Right Out: 0.010+/-0.012 χ²/NDF: 11.2/18
Left In: 0.016+/-0.014 χ²/NDF:6.1/5
Left: -0.003+/-0.010 χ²/NDF: 23.9/12
Right: 0.007+/-0.009 χ²/NDF: 21.5/34
In: 0.009+/-0.009 χ²/NDF:16.7/21
Out: -0.003+/-0.009 χ²/NDF:28.4/25
All: 0.003+/-0.006 χ²/NDF: 46.0/47

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687188.2/15

Left Out: 30.706+/-0.010 $\chi^2$/NDF:305608.3/6

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 31.137+/-0.010 $\chi^2$/NDF:323568.2/5

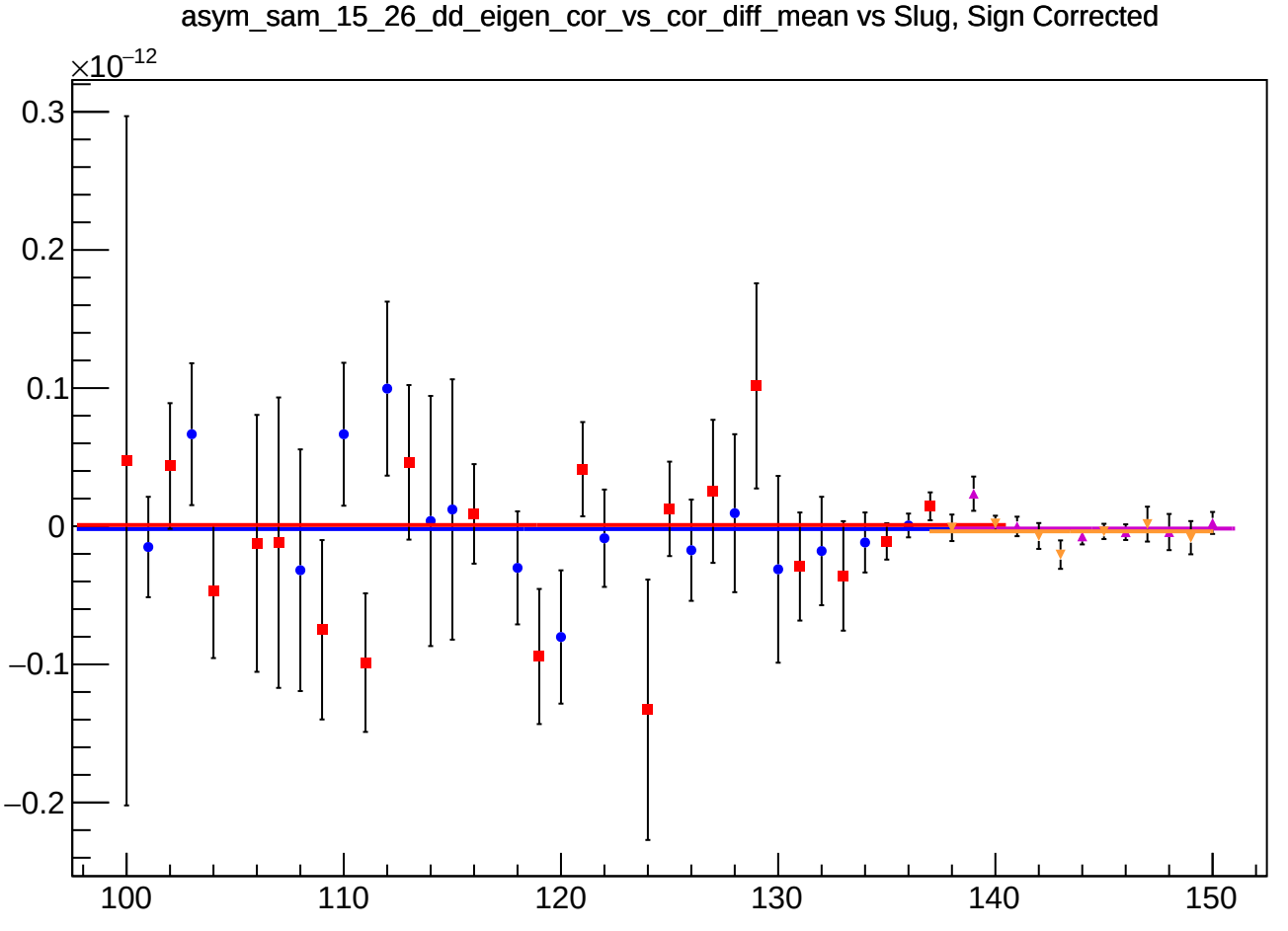
Left: 30.913+/-0.007 $\chi^2$/NDF: 630132.3/12

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

In: 30.594+/-0.007 $\chi^2$/NDF:2015879.3/21

Out: 29.990+/-0.006 $\chi^2$/NDF:2163929.2/25

All: 30.280+/-0.005 $\chi^2$/NDF: 4184205.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.2/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.6/5

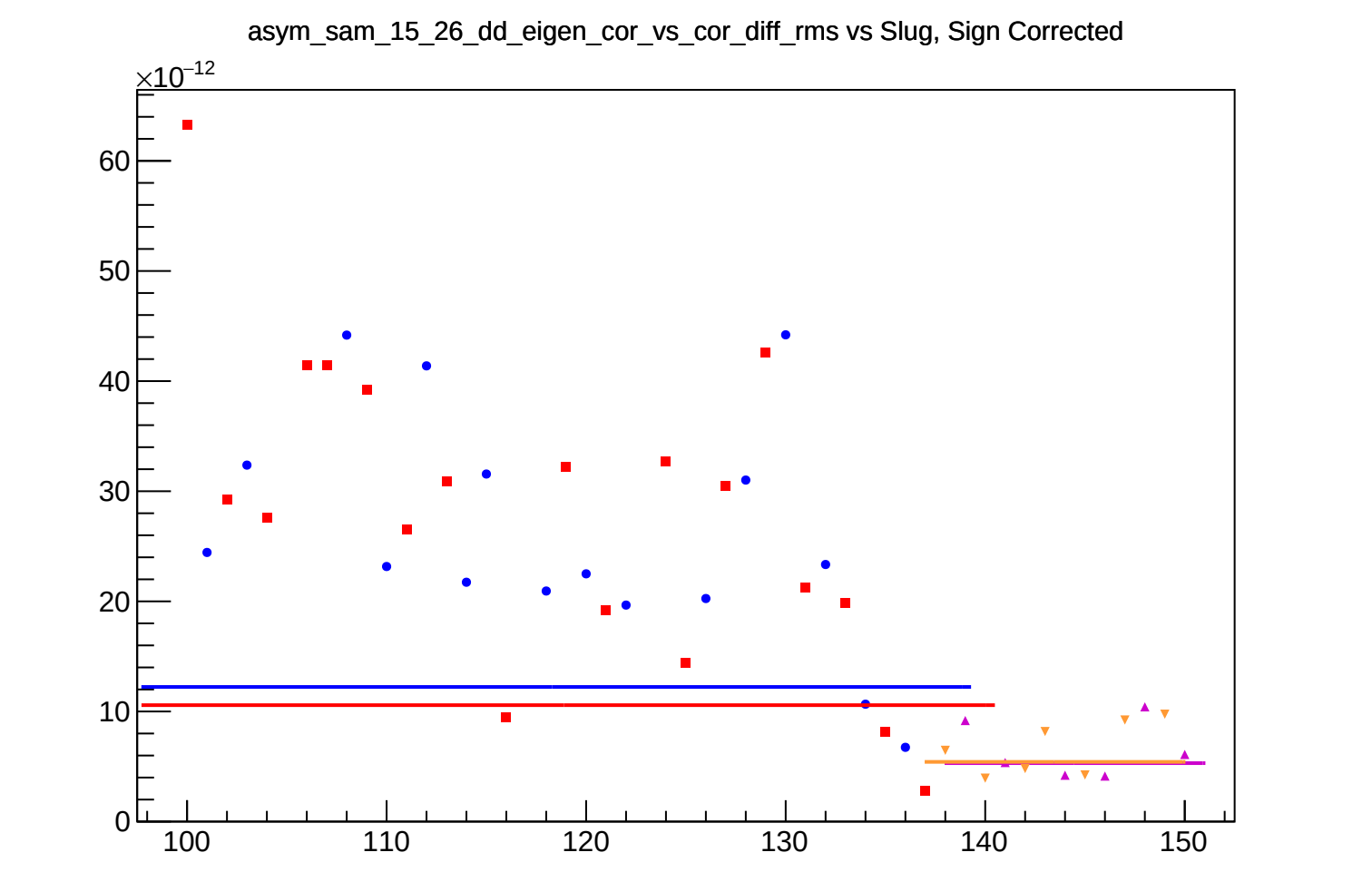
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.0/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 42.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3437895.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:842612.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4770079.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:676160.3/5

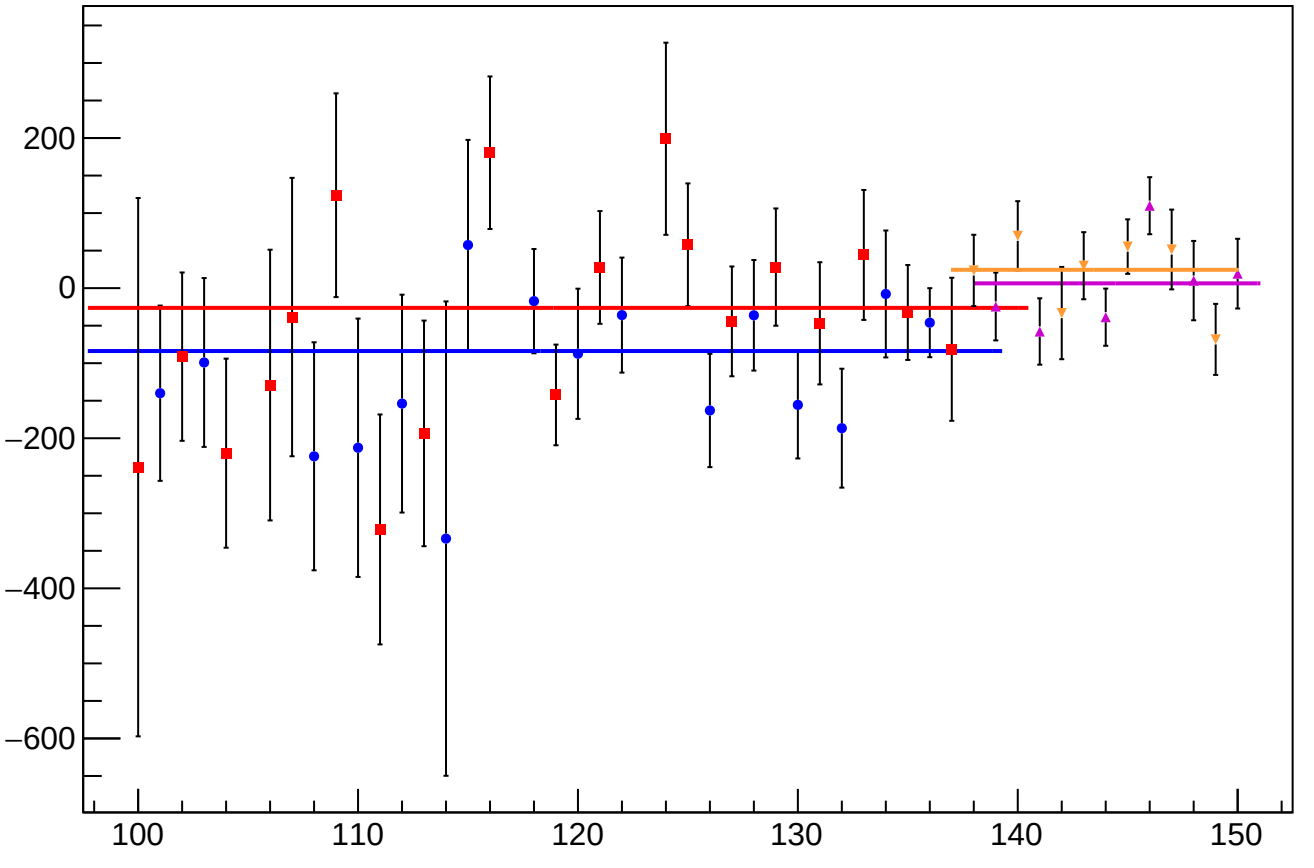
Left: 0.000+/-0.000 $\chi^2$/NDF: 1520217.1/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 8268115.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:5832956.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6602628.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 12438159.9/47




Right In: -83.808+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 24.415+/-17.579 $\chi^2$/NDF:6.7/6

Right Out: -26.301+/-22.067 $\chi^2$/NDF: 23.0/18

Left In: 6.379+/-17.667 $\chi^2$/NDF:11.5/5

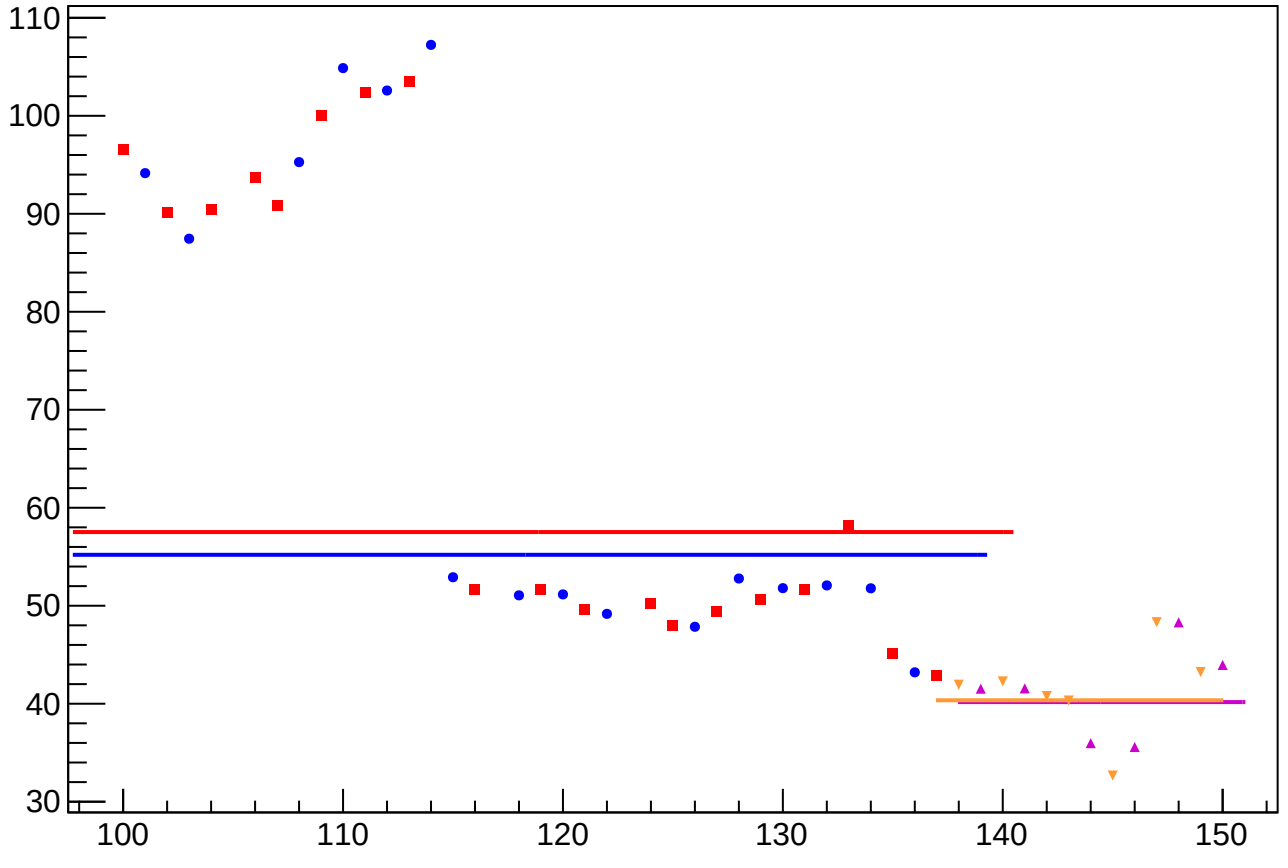
Left: 15.442+/-12.461 $\chi^2$/NDF: 18.7/12

Right: -55.890+/-15.375 $\chi^2$/NDF: 37.0/34

In: -30.105+/-13.633 $\chi^2$/NDF:32.5/21

Out: 4.726+/-13.749 $\chi^2$/NDF:32.9/25

All: -12.838+/-9.681 $\chi^2$/NDF: 68.7/47




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.1/15

Left Out: 40.350+/-0.012 $\chi^2$/NDF:147596.3/6

Right Out: 57.519+/-0.016 $\chi^2$/NDF: 1281793.1/18

Left In: 40.167+/-0.012 $\chi^2$/NDF:117868.3/5

Left: 40.259+/-0.009 $\chi^2$/NDF: 265573.1/12

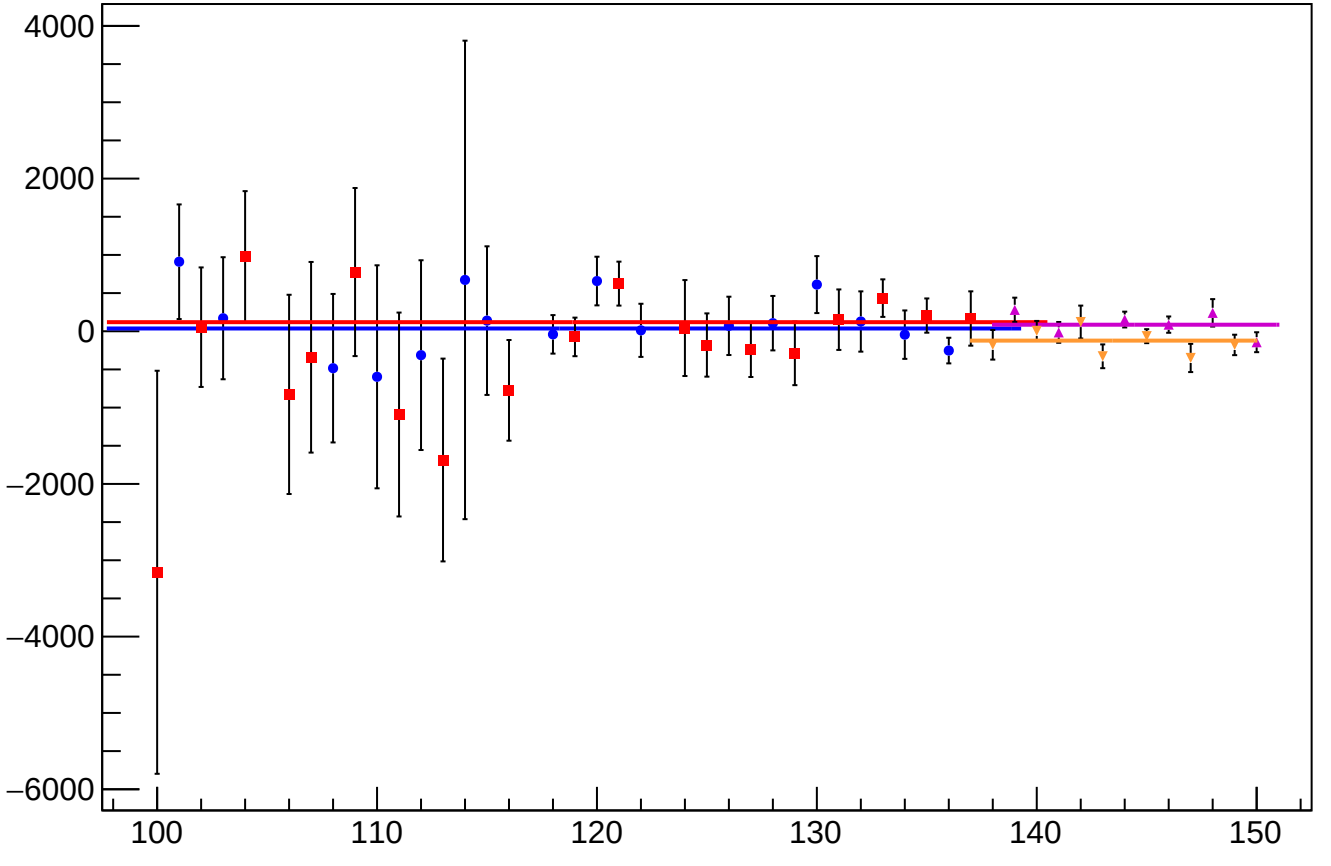
Right: 56.325+/-0.011 $\chi^2$/NDF: 2445763.7/34

In: 46.247+/-0.010 $\chi^2$/NDF:1856083.8/21

Out: 47.016+/-0.010 $\chi^2$/NDF:2170054.9/25

All: 46.628+/-0.007 $\chi^2$/NDF: 4029287.3/47

asym_sam_37_26_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -122.482+/-53.256 $\chi^2$/NDF:6.1/6

Right Out: 119.166+/-95.833 $\chi^2$/NDF: 16.0/18

Left In: 85.681+/-52.442 $\chi^2$/NDF:6.3/5

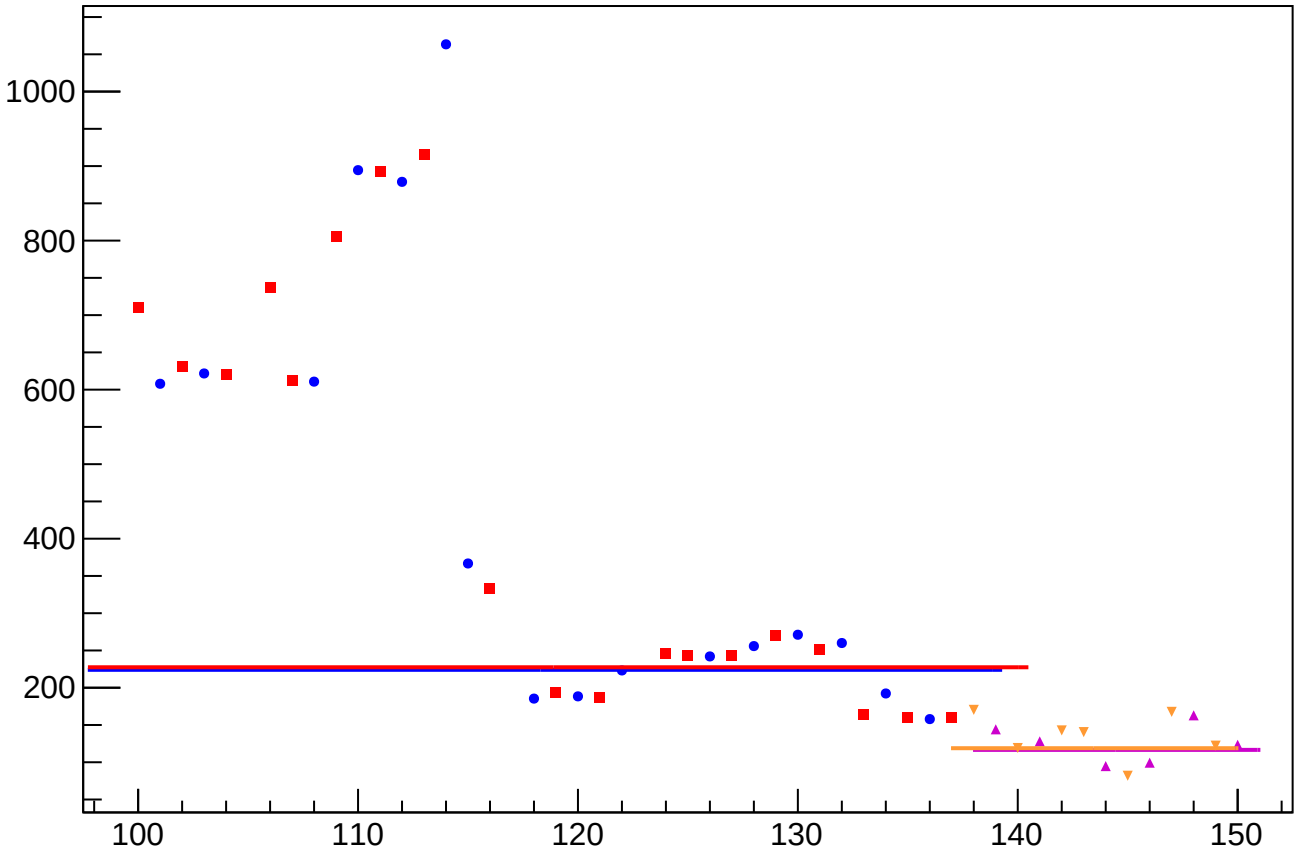
Left: -16.800+/-37.367 $\chi^2$/NDF: 20.2/12

Right: 76.754+/-66.947 $\chi^2$/NDF: 27.8/34

In: 73.882+/-45.746 $\chi^2$/NDF:17.9/21

Out: -65.466+/-46.551 $\chi^2$/NDF:27.0/25

All: 5.422+/-32.628 $\chi^2$/NDF: 49.5/47




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968054.7/15

Left Out: 118.842+/-0.038 $\chi^2$/NDF:669837.1/6

Right Out: 227.451+/-0.068 $\chi^2$/NDF: 3640634.3/18

Left In: 116.598+/-0.037 $\chi^2$/NDF:351974.1/5

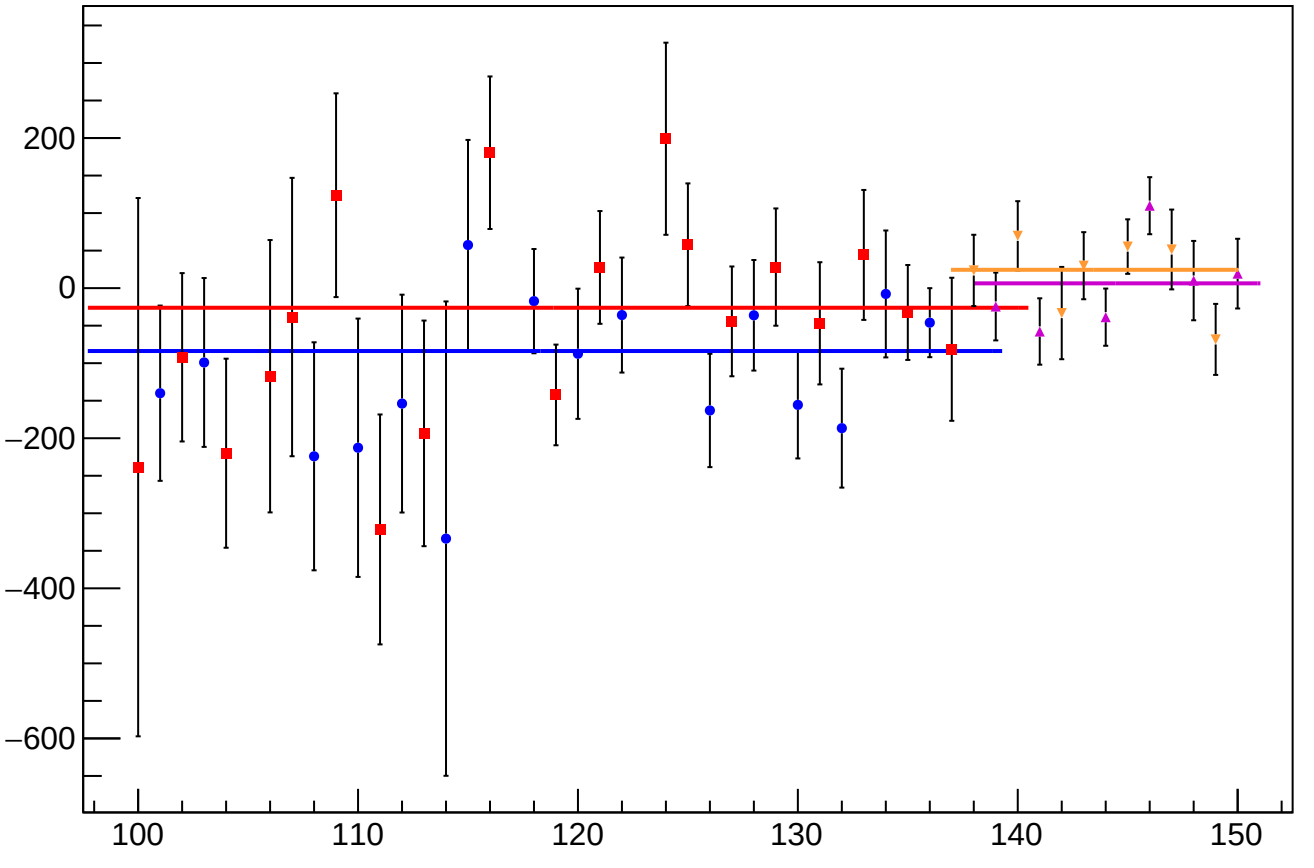
Left: 117.703+/-0.026 $\chi^2$/NDF: 1023613.8/12

Right: 225.705+/-0.047 $\chi^2$/NDF: 6609984.7/34

In: 142.283+/-0.032 $\chi^2$/NDF:5326972.4/21

Out: 144.468+/-0.033 $\chi^2$/NDF:6273153.6/25

All: 143.357+/-0.023 $\chi^2$/NDF: 11602366.6/47




Right In: -83.805+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 24.414+/-17.579 $\chi^2$/NDF:6.7/6

Right Out: -26.142+/-22.069 $\chi^2$/NDF: 22.9/18

Left In: 6.379+/-17.667 $\chi^2$/NDF:11.5/5

Left: 15.442+/-12.461 $\chi^2$/NDF: 18.7/12

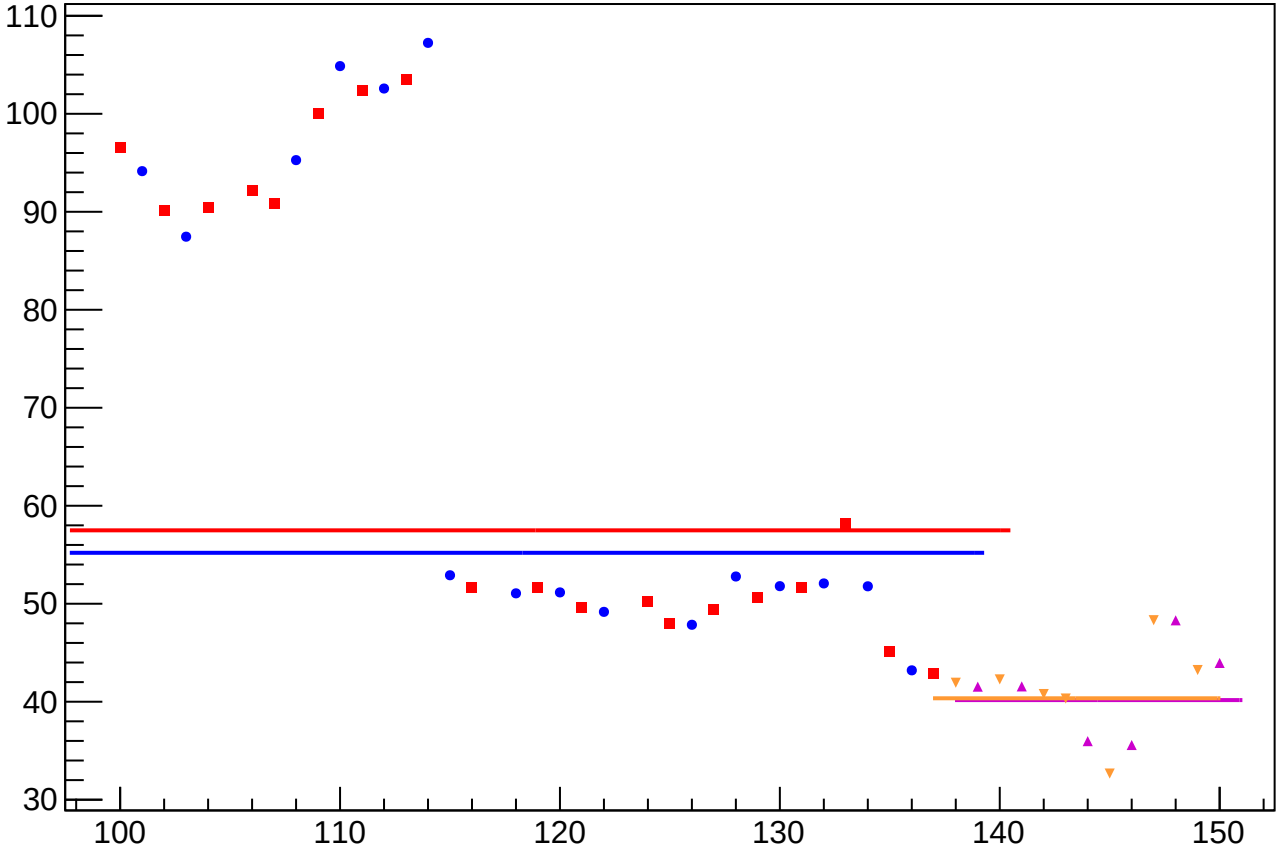
Right: -55.815+/-15.376 $\chi^2$/NDF: 37.0/34

In: -30.104+/-13.633 $\chi^2$/NDF:32.5/21

Out: 4.789+/-13.750 $\chi^2$/NDF:32.8/25

All: -12.806+/-9.681 $\chi^2$/NDF: 68.6/47

# cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 40.350+/-0.012 $\chi^2$/NDF:147596.3/6

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 40.167+/-0.012 $\chi^2$/NDF:117868.3/5

Left: 40.259+/-0.009 $\chi^2$/NDF: 265573.1/12

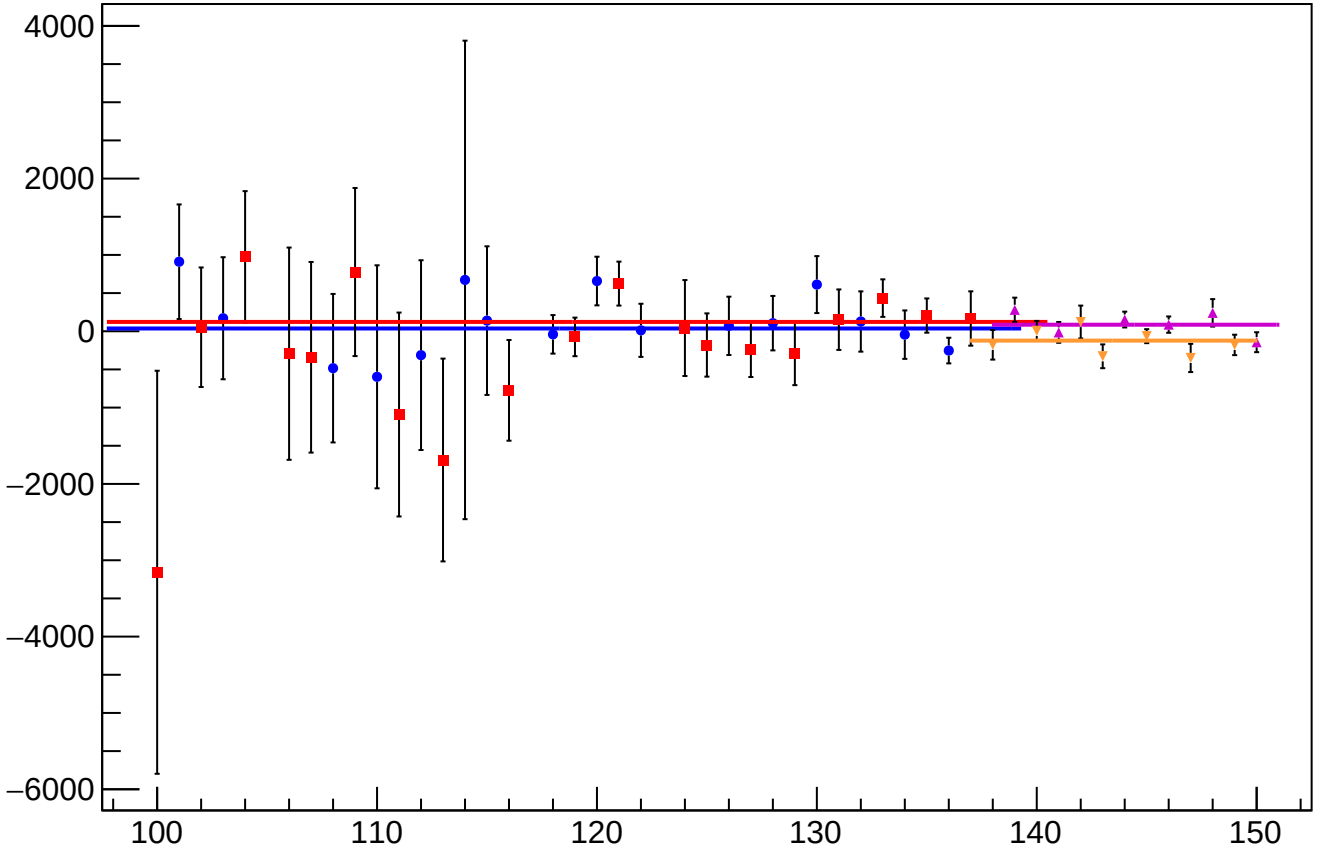
Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 46.247+/-0.010 $\chi^2$/NDF:1856084.0/21

Out: 47.004+/-0.010 $\chi^2$/NDF:2160073.6/25

All: 46.622+/-0.007 $\chi^2$/NDF: 4019208.7/47

asym_sam_37_26_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -122.483+/-53.256 $\chi^2$/NDF:6.1/6

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 85.680+/-52.442 $\chi^2$/NDF:6.3/5

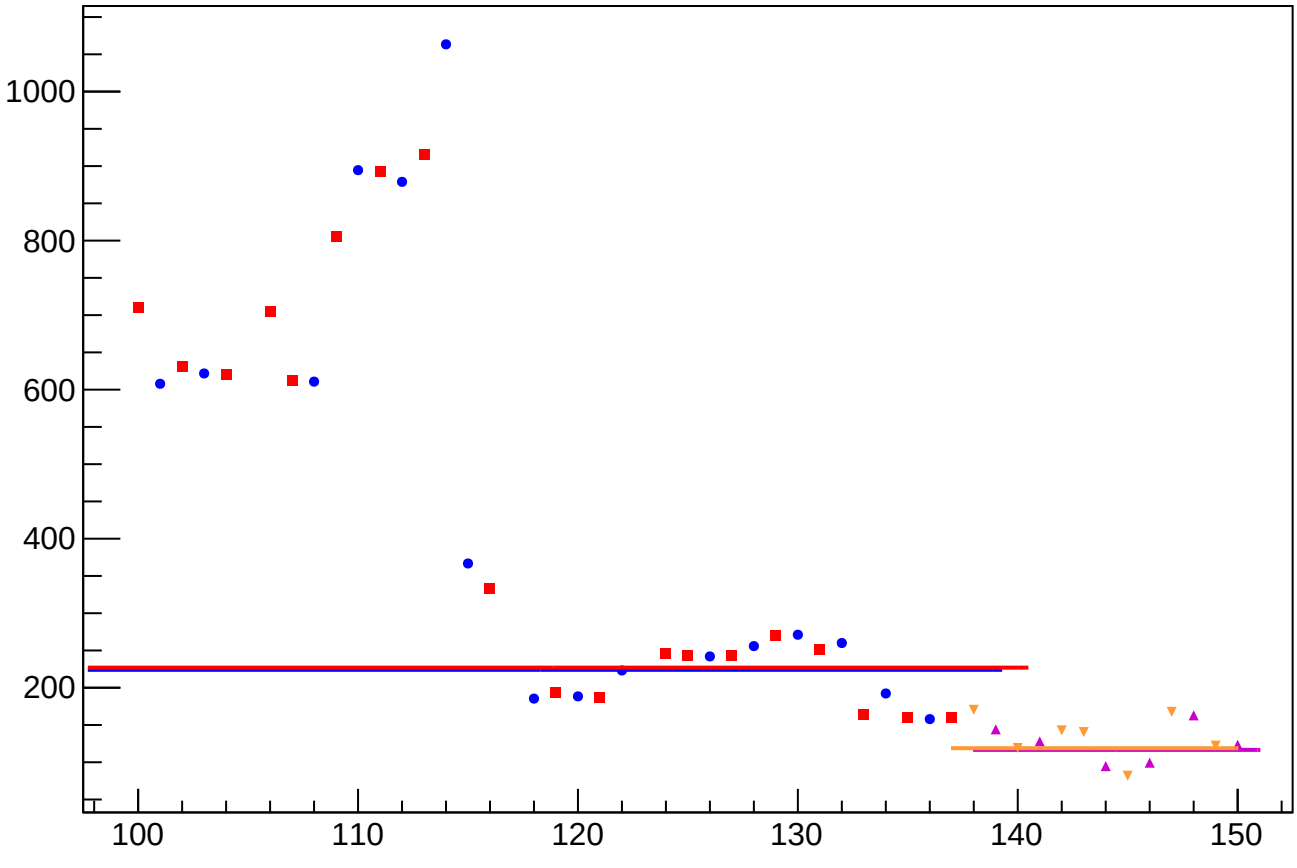
Left: -16.800+/-37.367 $\chi^2$/NDF: 20.2/12

Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 73.882+/-45.746 $\chi^2$/NDF:17.9/21

Out: -64.759+/-46.554 $\chi^2$/NDF:26.7/25

All: 5.775+/-32.629 $\chi^2$/NDF: 49.1/47




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 118.842+/-0.038 $\chi^2$/NDF:669842.2/6

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 116.598+/-0.037 $\chi^2$/NDF:351972.7/5

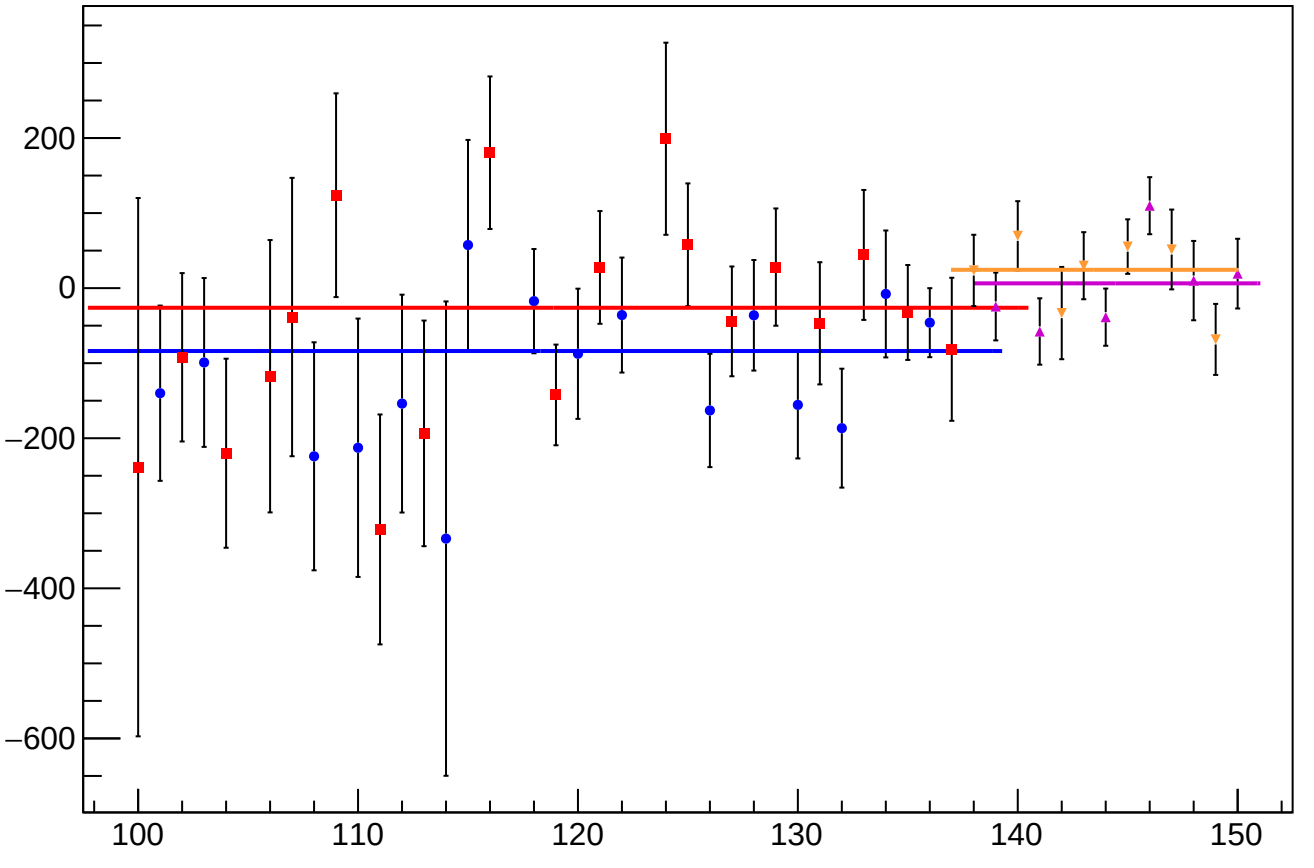
Left: 117.703+/-0.026 $\chi^2$/NDF: 1023617.7/12

Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 142.283+/-0.032 $\chi^2$/NDF:5326985.4/21

Out: 144.342+/-0.033 $\chi^2$/NDF:6186195.0/25

All: 143.295+/-0.023 $\chi^2$/NDF: 11515170.3/47




Right In: -83.805+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 24.414+/-17.579 $\chi^2$/NDF:6.7/6

Right Out: -26.142+/-22.069 $\chi^2$/NDF: 22.9/18

Left In: 6.379+/-17.667 $\chi^2$/NDF:11.5/5

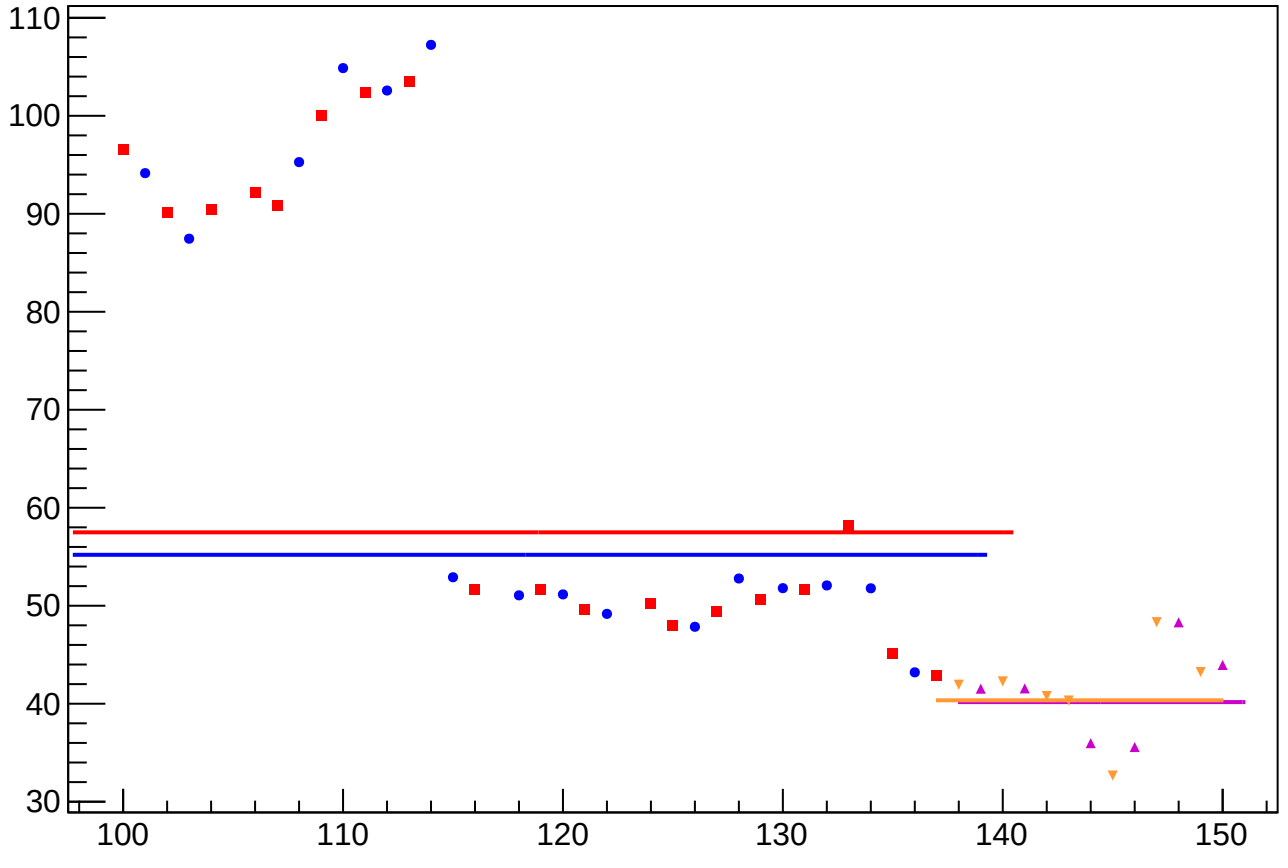
Left: 15.442+/-12.461 $\chi^2$/NDF: 18.7/12

Right: -55.815+/-15.376 $\chi^2$/NDF: 37.0/34

In: -30.104+/-13.633 $\chi^2$/NDF:32.5/21

Out: 4.789+/-13.750 $\chi^2$/NDF:32.8/25

All: -12.806+/-9.681 $\chi^2$/NDF: 68.6/47




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 40.350+/-0.012 $\chi^2$/NDF:147596.3/6

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 40.167+/-0.012 $\chi^2$/NDF:117868.3/5

Left: 40.259+/-0.009 $\chi^2$/NDF: 265573.1/12

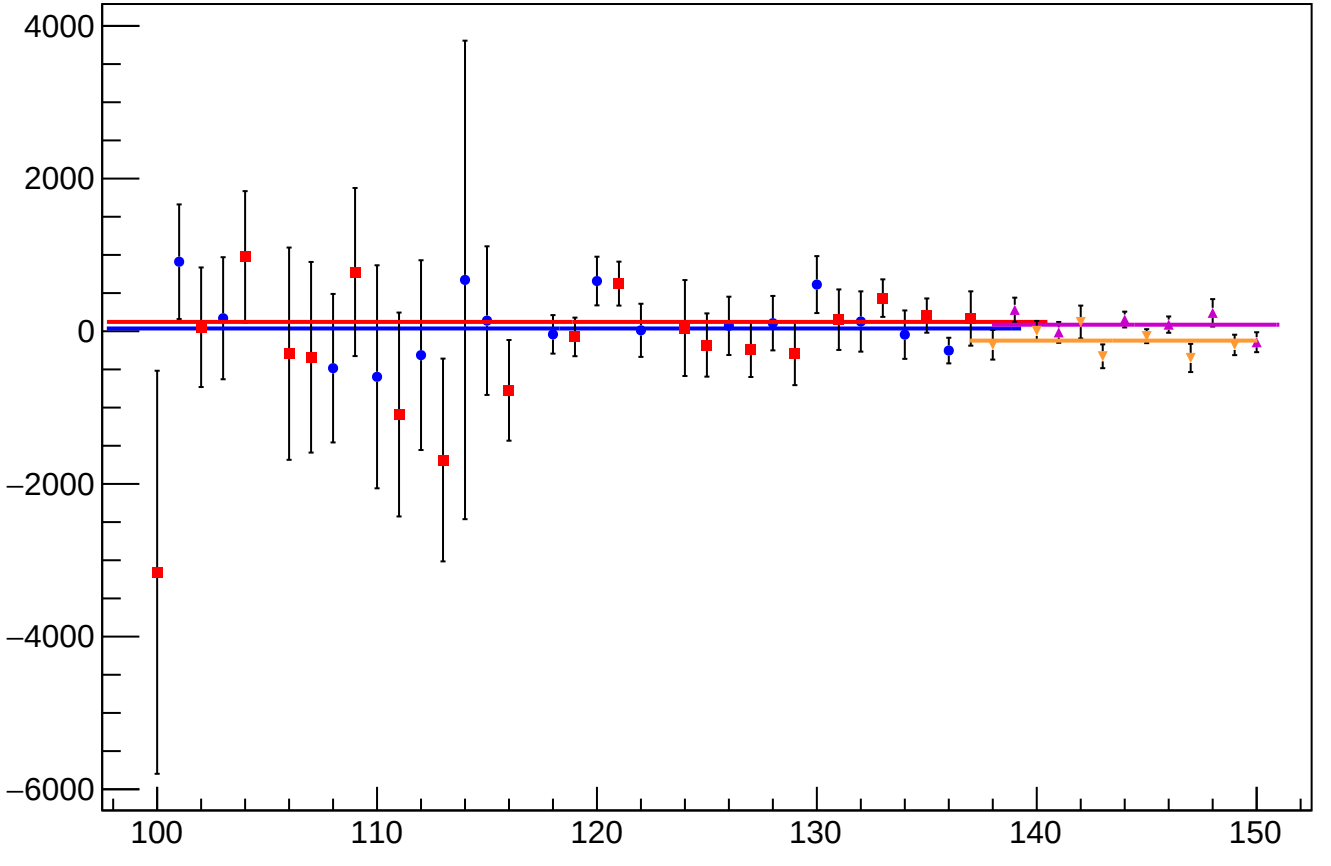
Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 46.247+/-0.010 $\chi^2$/NDF:1856084.0/21

Out: 47.004+/-0.010 $\chi^2$/NDF:2160073.6/25

All: 46.622+/-0.007 $\chi^2$/NDF: 4019208.7/47

asym_sam_37_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -122.483+/-53.256 $\chi^2$/NDF:6.1/6

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 85.680+/-52.442 $\chi^2$/NDF:6.3/5

Left: -16.800+/-37.367 $\chi^2$/NDF: 20.2/12

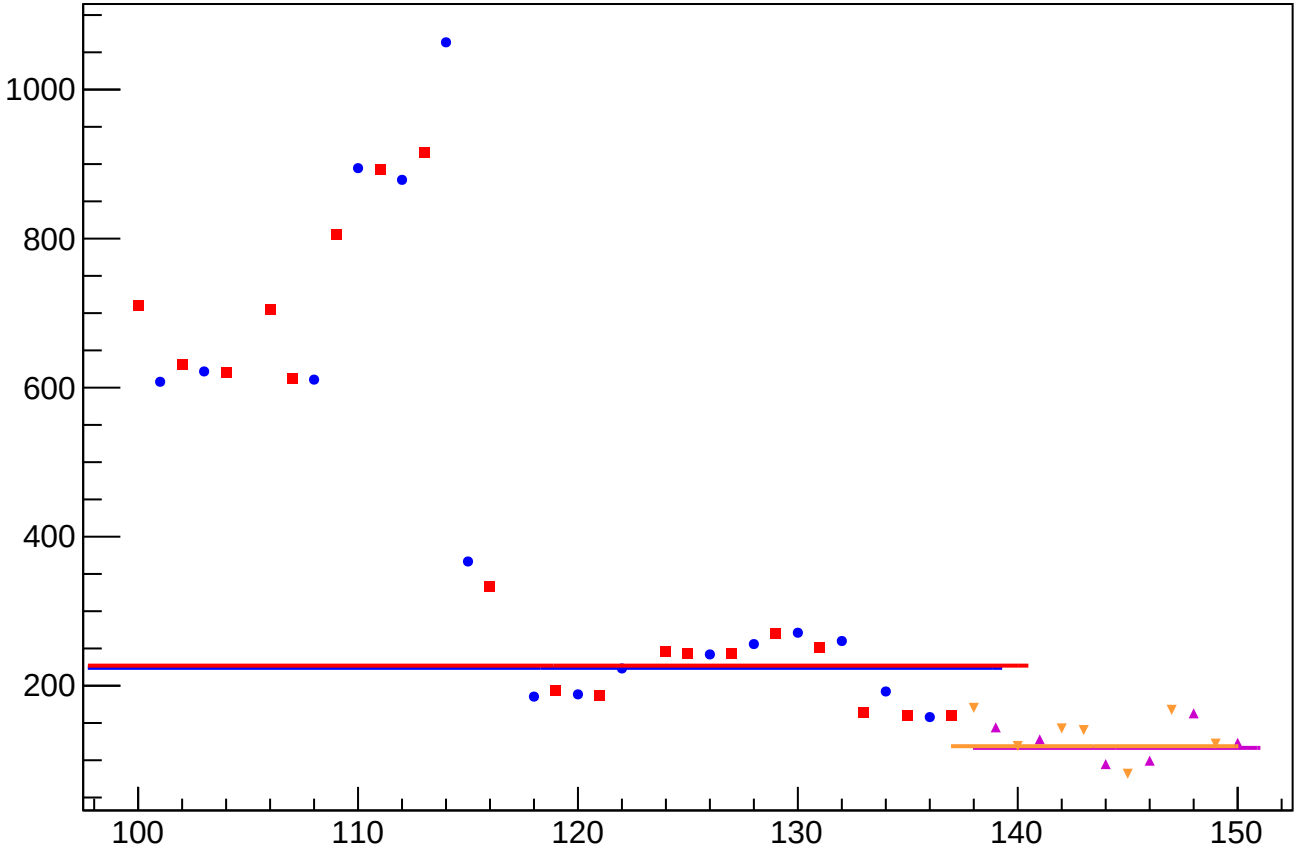
Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 73.882+/-45.746 $\chi^2$/NDF:17.9/21

Out: -64.759+/-46.554 $\chi^2$/NDF:26.7/25

All: 5.775+/-32.629 $\chi^2$/NDF: 49.1/47

asym_sam_37_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 118.842+/-0.038 $\chi^2$/NDF:669842.2/6

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 116.598+/-0.037 $\chi^2$/NDF:351972.7/5

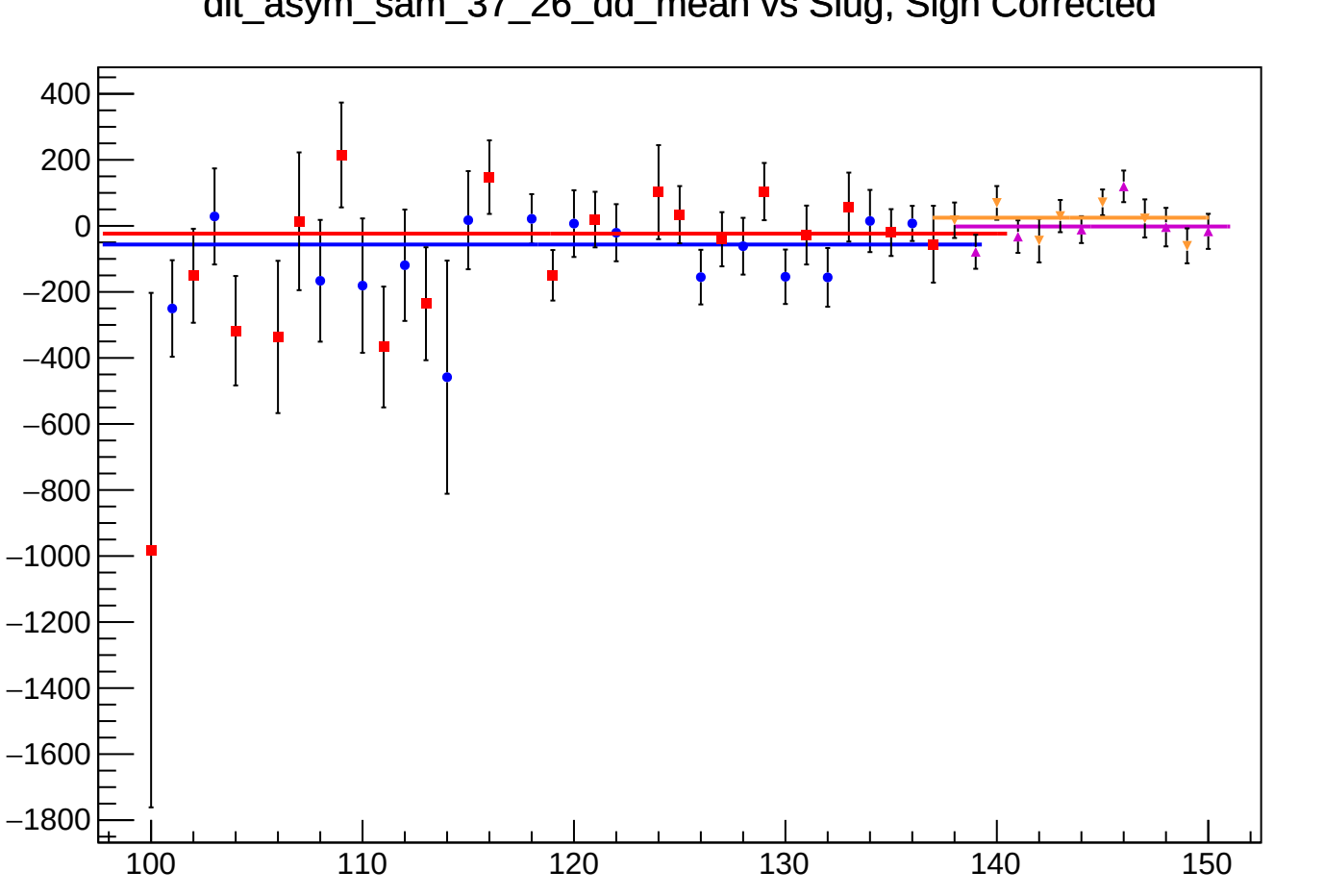
Left: 117.703+/-0.026 $\chi^2$/NDF: 1023617.7/12

Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 142.283+/-0.032 $\chi^2$/NDF:5326985.4/21

Out: 144.342+/-0.033 $\chi^2$/NDF:6186195.0/25

All: 143.295+/-0.023 $\chi^2$/NDF: 11515170.3/47




Right In: -56.414+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 24.827+/-19.280 $\chi^2$/NDF:5.9/6

Right Out: -23.495+/-25.161 $\chi^2$/NDF: 24.1/18

Left In: -1.842+/-20.083 $\chi^2$/NDF:9.2/5

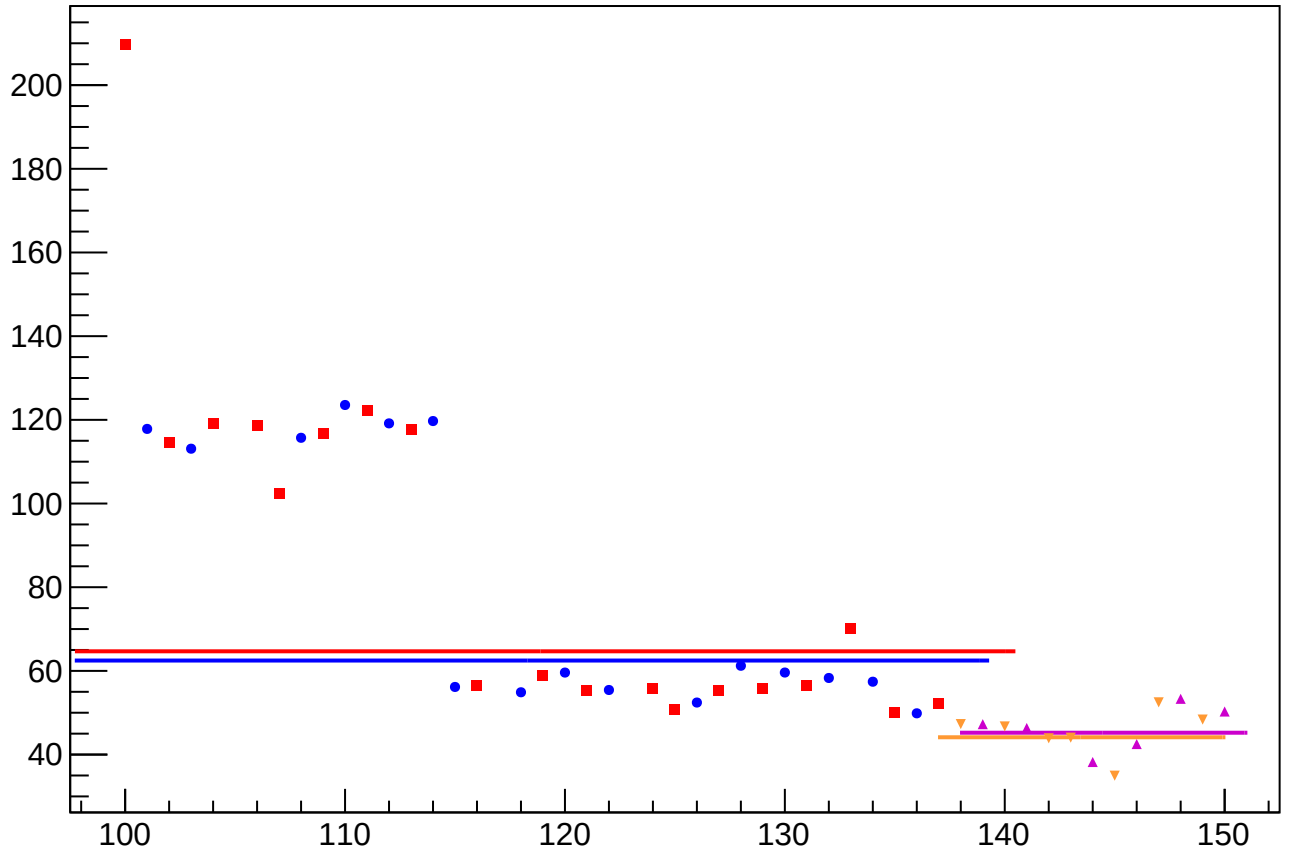
Left: 12.037+/-13.908 $\chi^2$/NDF: 16.0/12

Right: -40.400+/-17.549 $\chi^2$/NDF: 37.2/34

In: -23.786+/-15.529 $\chi^2$/NDF:24.4/21

Out: 6.950+/-15.304 $\chi^2$/NDF:32.3/25

All: -8.193+/-10.900 $\chi^2$/NDF: 58.7/47




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348224.3/15

Left Out: 44.134+/-0.014 $\chi^2$/NDF:176983.3/6

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590446.9/18

Left In: 45.222+/-0.014 $\chi^2$/NDF:126699.9/5

Left: 44.656+/-0.010 $\chi^2$/NDF: 306739.9/12

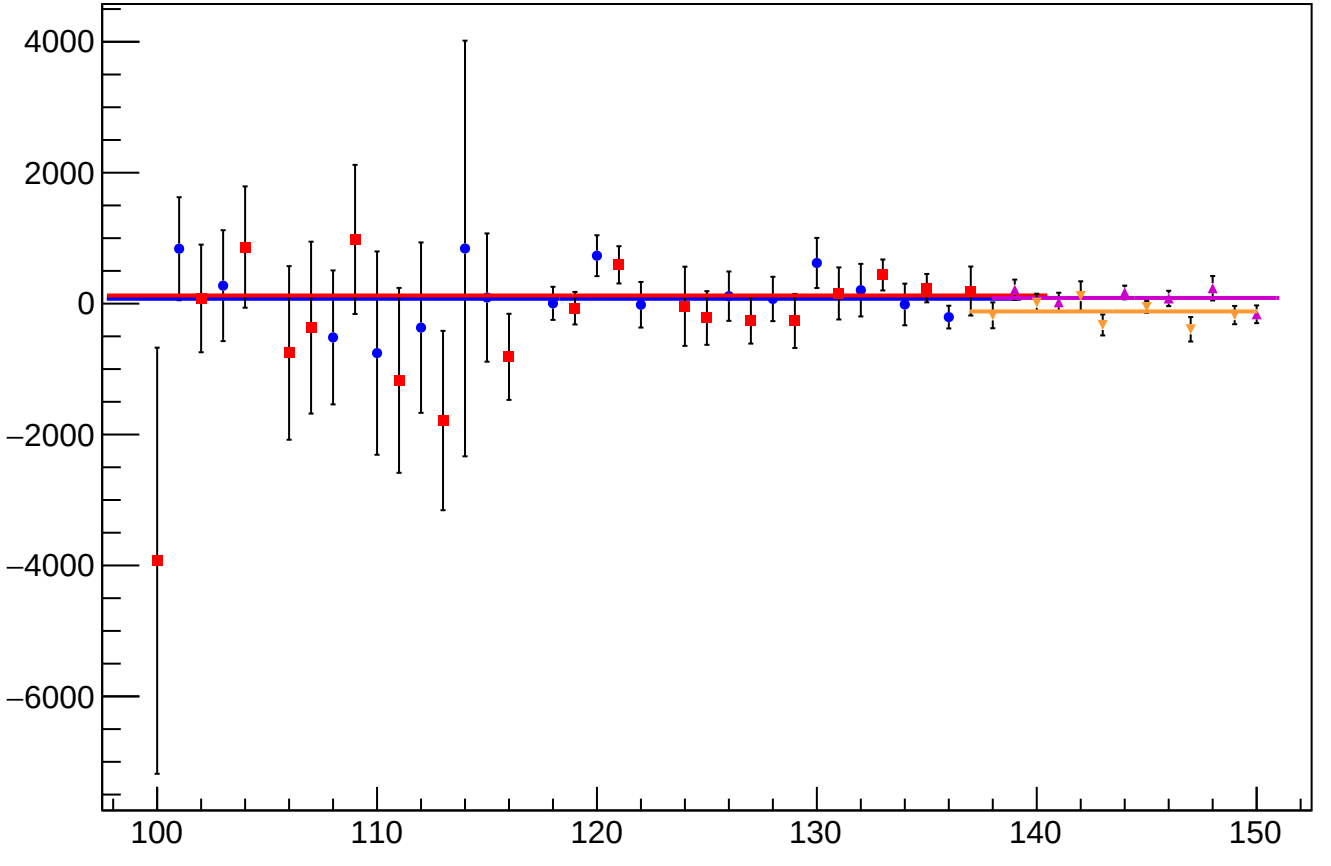
Right: 63.547+/-0.012 $\chi^2$/NDF: 2946567.9/34

In: 52.160+/-0.011 $\chi^2$/NDF:2068370.1/21

Out: 51.735+/-0.011 $\chi^2$/NDF:2607720.9/25

All: 51.944+/-0.008 $\chi^2$/NDF: 4676848.5/47

asym_sam_37_26_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 74.294+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -119.156+/-54.102 $\chi^2$/NDF:6.7/6

Right Out: 124.201+/-94.665 $\chi^2$/NDF: 16.3/18

Left In: 86.336+/-54.594 $\chi^2$/NDF:5.5/5

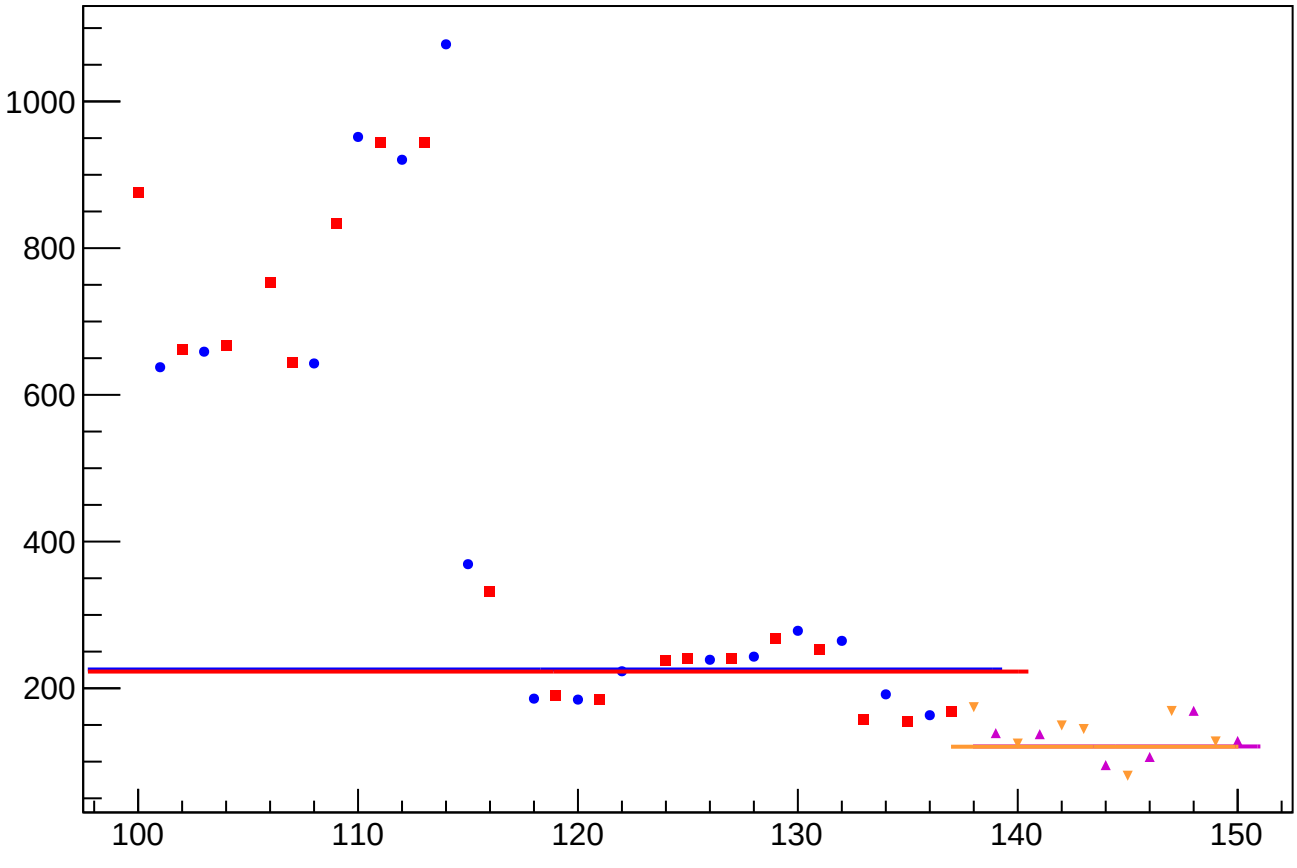
Left: -17.341+/-38.429 $\chi^2$/NDF: 19.4/12

Right: 99.202+/-66.877 $\chi^2$/NDF: 27.7/34

In: 83.323+/-47.271 $\chi^2$/NDF:16.7/21

Out: -59.241+/-46.972 $\chi^2$/NDF:28.0/25

All: 11.588+/-33.320 $\chi^2$/NDF: 49.3/47




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3026007.7/15

Left Out: 120.346+/-0.038 $\chi^2$/NDF:756607.1/6

Right Out: 222.786+/-0.067 $\chi^2$/NDF: 3848156.1/18

Left In: 120.704+/-0.039 $\chi^2$/NDF:343647.0/5

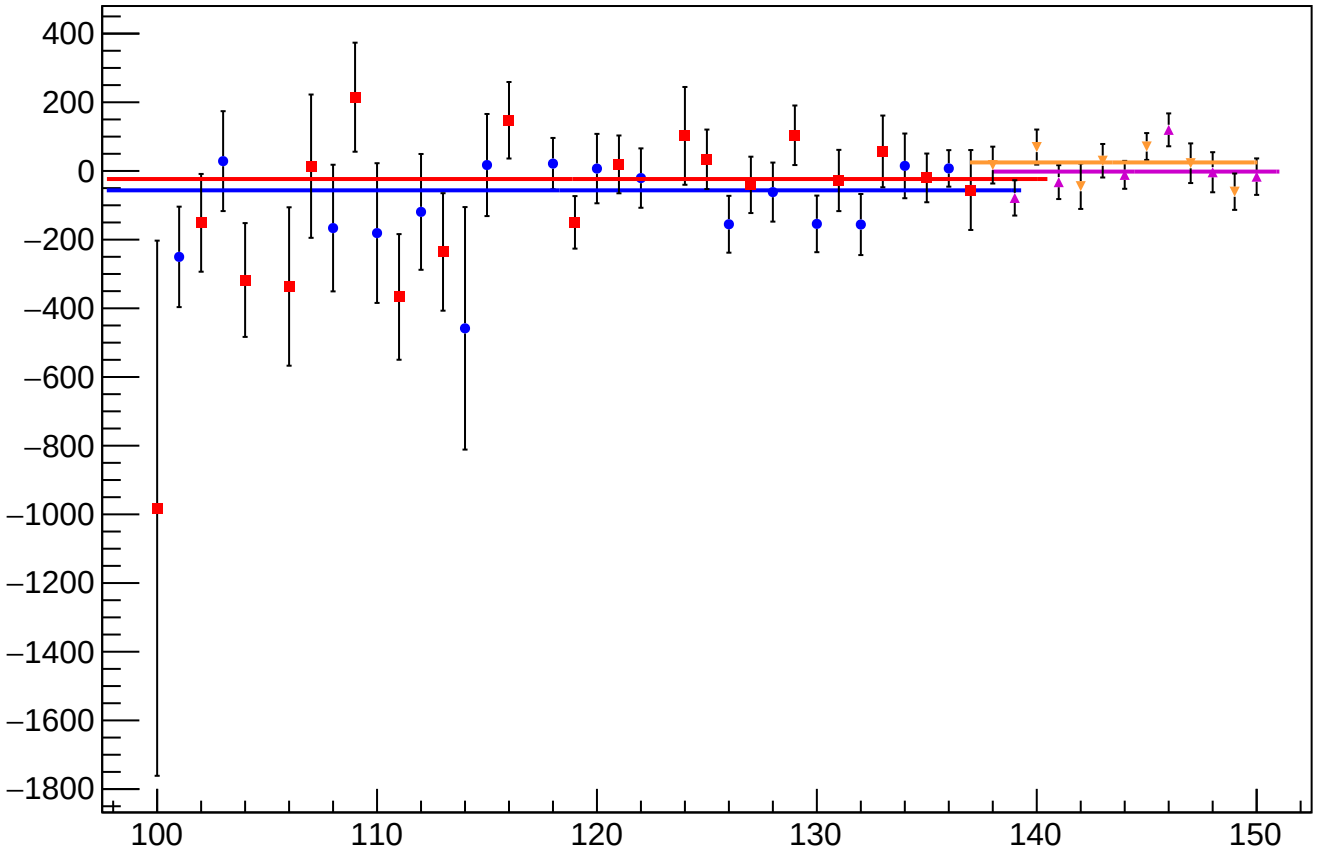
Left: 120.524+/-0.027 $\chi^2$/NDF: 1100297.5/12

Right: 224.203+/-0.047 $\chi^2$/NDF: 6875057.9/34

In: 146.960+/-0.033 $\chi^2$/NDF:5217974.8/21

Out: 145.567+/-0.033 $\chi^2$/NDF:6370149.5/25

All: 146.259+/-0.024 $\chi^2$/NDF: 11588997.8/47




Right In: -56.415+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 24.827+/-19.280 $\chi^2$/NDF:5.9/6

Right Out: -23.498+/-25.160 $\chi^2$/NDF: 24.1/18

Left In: -1.841+/-20.083 $\chi^2$/NDF:9.2/5

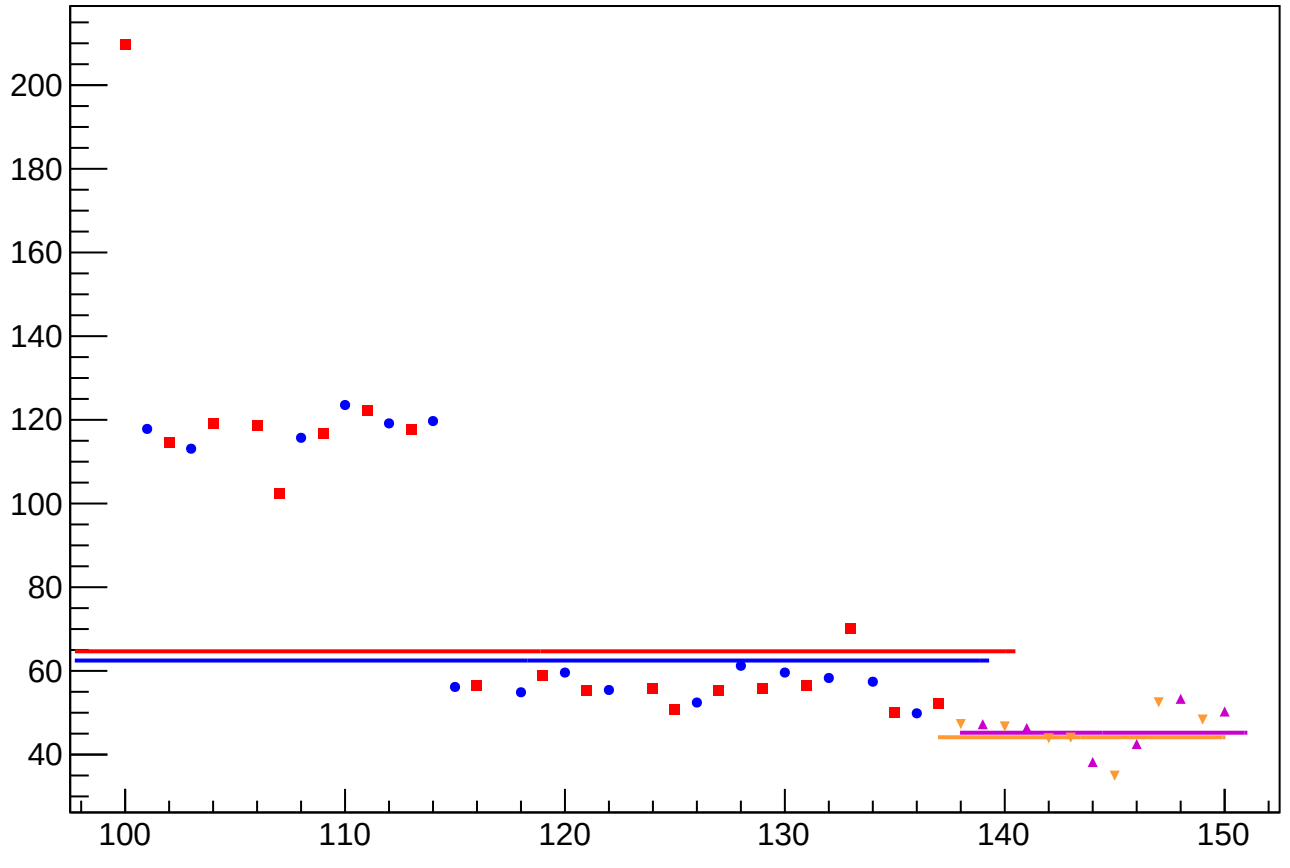
Left: 12.037+/-13.908 $\chi^2$/NDF: 16.0/12

Right: -40.402+/-17.549 $\chi^2$/NDF: 37.2/34

In: -23.786+/-15.529 $\chi^2$/NDF:24.4/21

Out: 6.949+/-15.304 $\chi^2$/NDF:32.3/25

All: -8.194+/-10.900 $\chi^2$/NDF: 58.7/47




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348204.7/15

Left Out: 44.134+/-0.014 $\chi^2$/NDF:176985.9/6

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590426.1/18

Left In: 45.222+/-0.014 $\chi^2$/NDF:126698.8/5

Left: 44.656+/-0.010 $\chi^2$/NDF: 306741.1/12

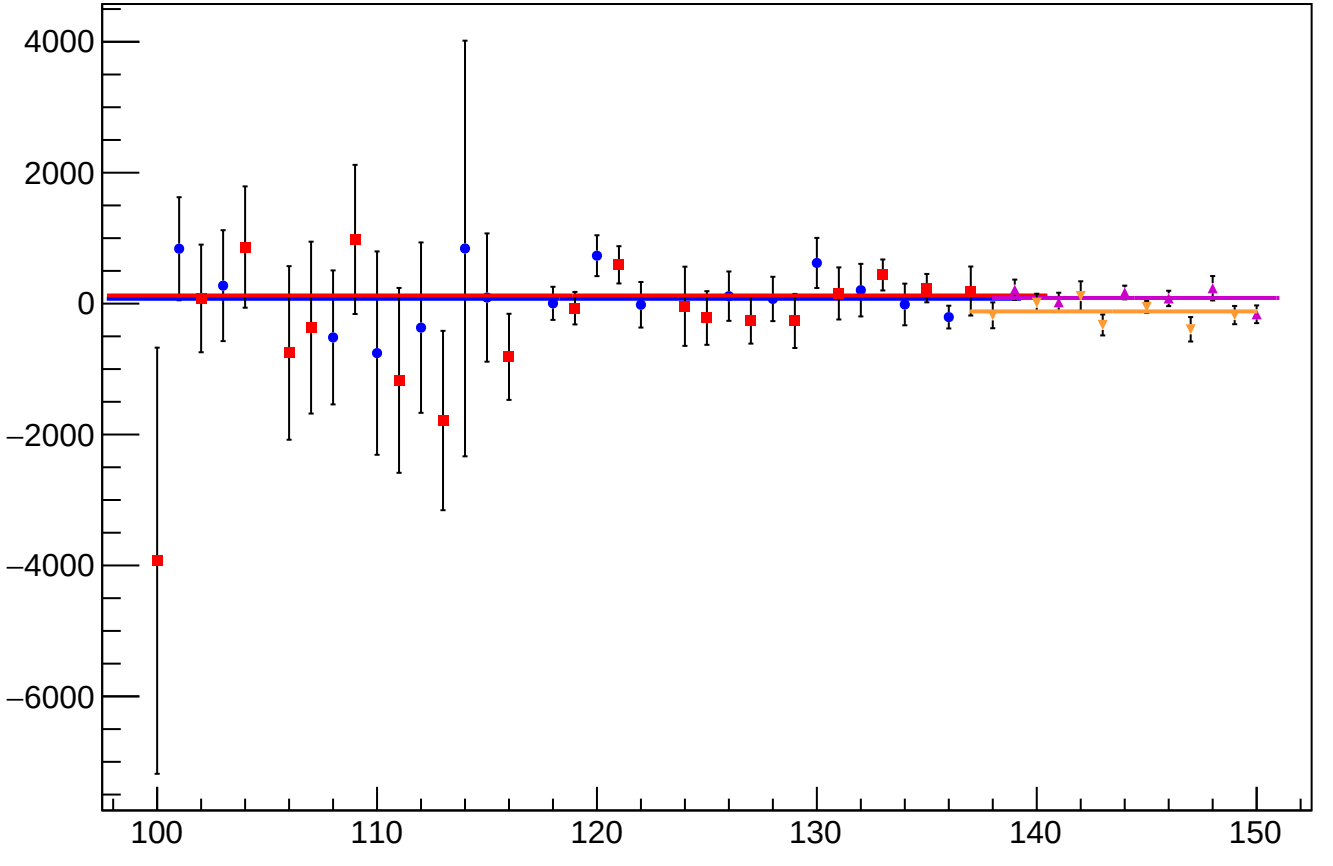
Right: 63.547+/-0.012 $\chi^2$/NDF: 2946529.3/34

In: 52.159+/-0.011 $\chi^2$/NDF:2068318.5/21

Out: 51.735+/-0.011 $\chi^2$/NDF:2607678.6/25

All: 51.944+/-0.008 $\chi^2$/NDF: 4676754.0/47

asym_sam_37_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 74.295+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -119.156+/-54.102 $\chi^2$/NDF:6.7/6

Right Out: 124.199+/-94.666 $\chi^2$/NDF: 16.3/18

Left In: 86.337+/-54.594 $\chi^2$/NDF:5.5/5

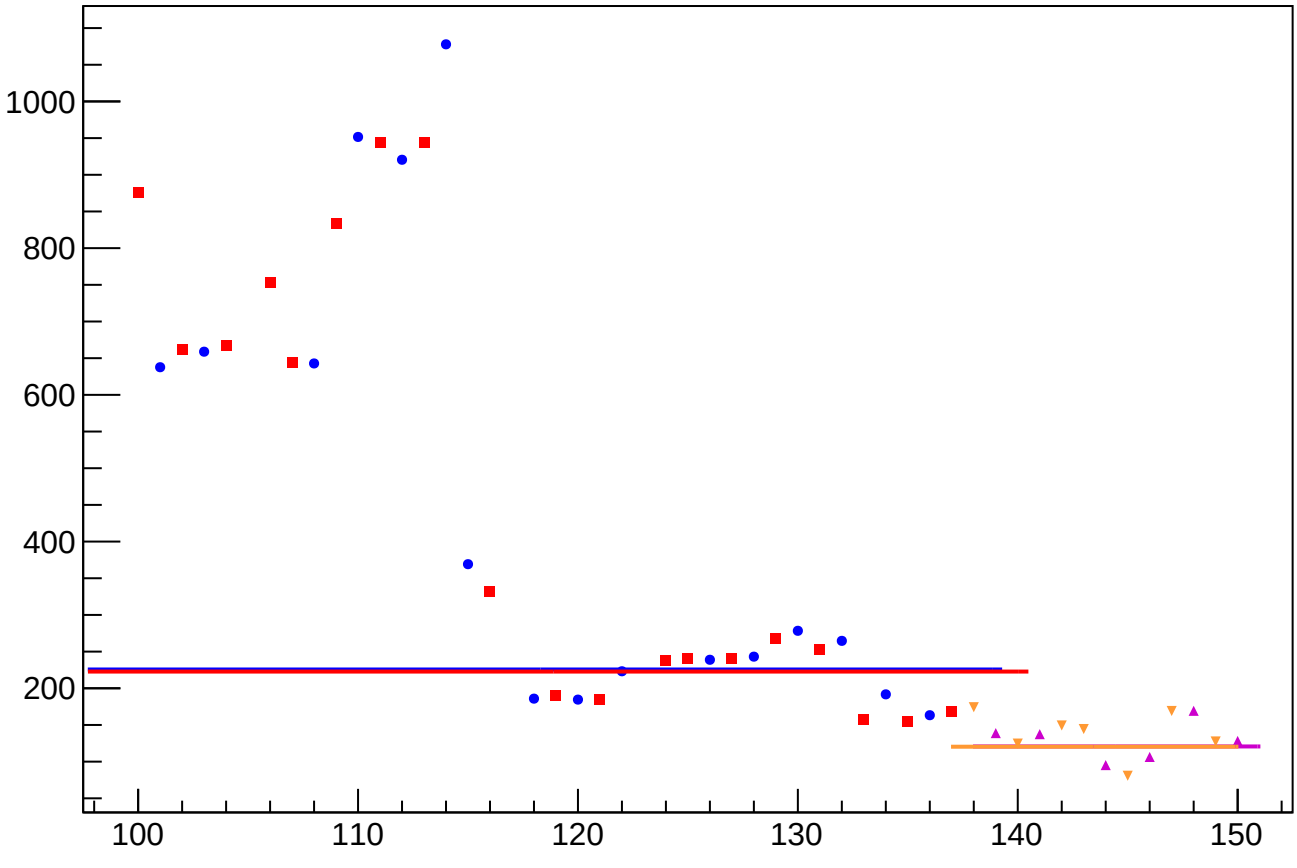
Left: -17.341+/-38.429 $\chi^2$/NDF: 19.4/12

Right: 99.201+/-66.877 $\chi^2$/NDF: 27.7/34

In: 83.323+/-47.272 $\chi^2$/NDF:16.7/21

Out: -59.241+/-46.972 $\chi^2$/NDF:28.0/25

All: 11.588+/-33.320 $\chi^2$/NDF: 49.3/47




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3025994.8/15

Left Out: 120.347+/-0.038 $\chi^2$/NDF:756616.3/6

Right Out: 222.787+/-0.067 $\chi^2$/NDF: 3848136.6/18

Left In: 120.704+/-0.039 $\chi^2$/NDF:343656.0/5

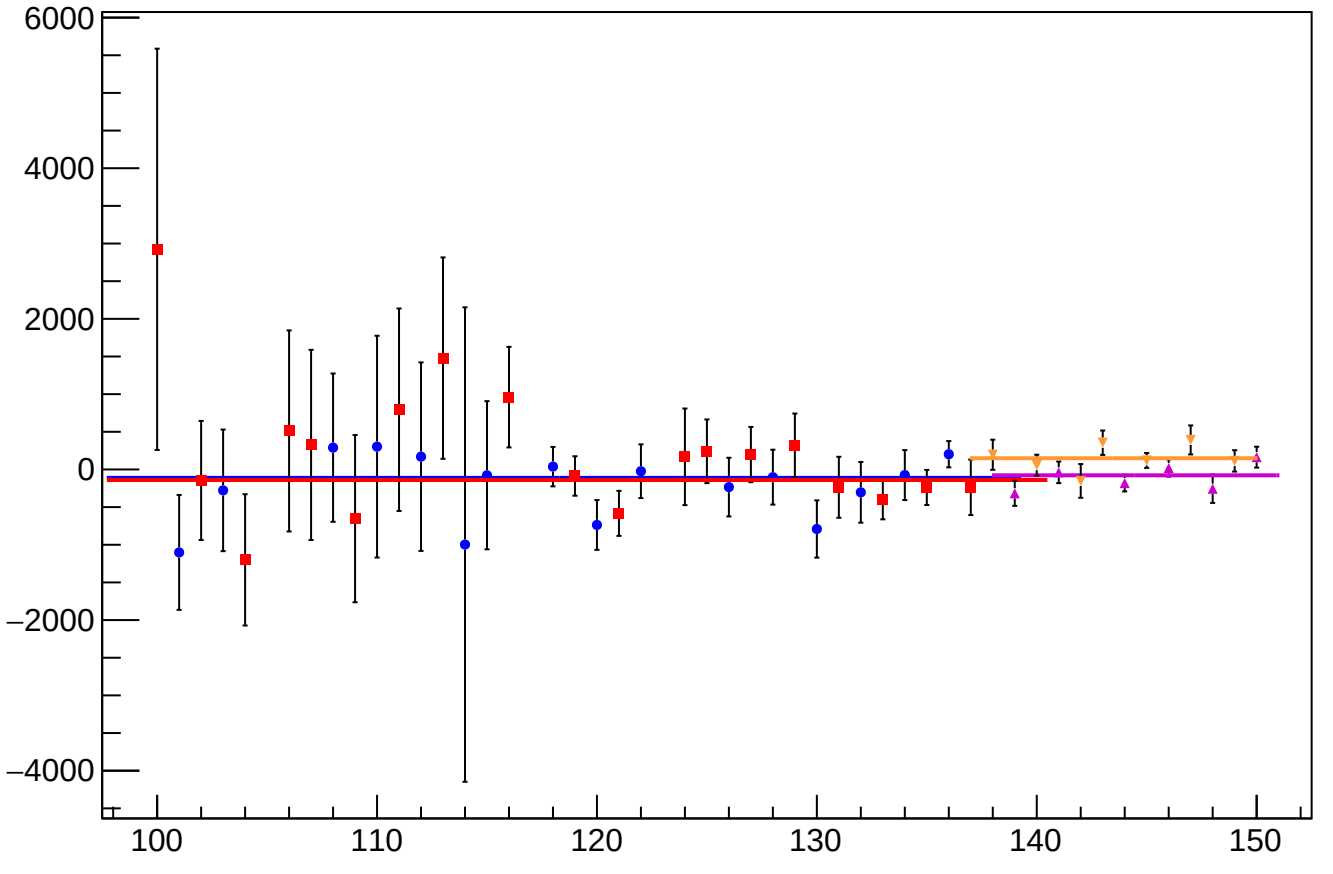
Left: 120.524+/-0.027 $\chi^2$/NDF: 1100315.7/12

Right: 224.203+/-0.047 $\chi^2$/NDF: 6875025.2/34

In: 146.960+/-0.033 $\chi^2$/NDF:5217959.0/21

Out: 145.568+/-0.033 $\chi^2$/NDF:6370131.1/25

All: 146.260+/-0.024 $\chi^2$/NDF: 11588963.3/47




Right In: -111.916+/-96.551 $\chi^2$/NDF: 12.8/15

Left Out: 148.988+/-56.396 $\chi^2$/NDF:5.7/6

Right Out: -139.974+/-99.174 $\chi^2$/NDF: 14.6/18

Left In: -77.699+/-55.605 $\chi^2$/NDF:7.7/5

Left: 34.043+/-39.595 $\chi^2$/NDF: 21.5/12

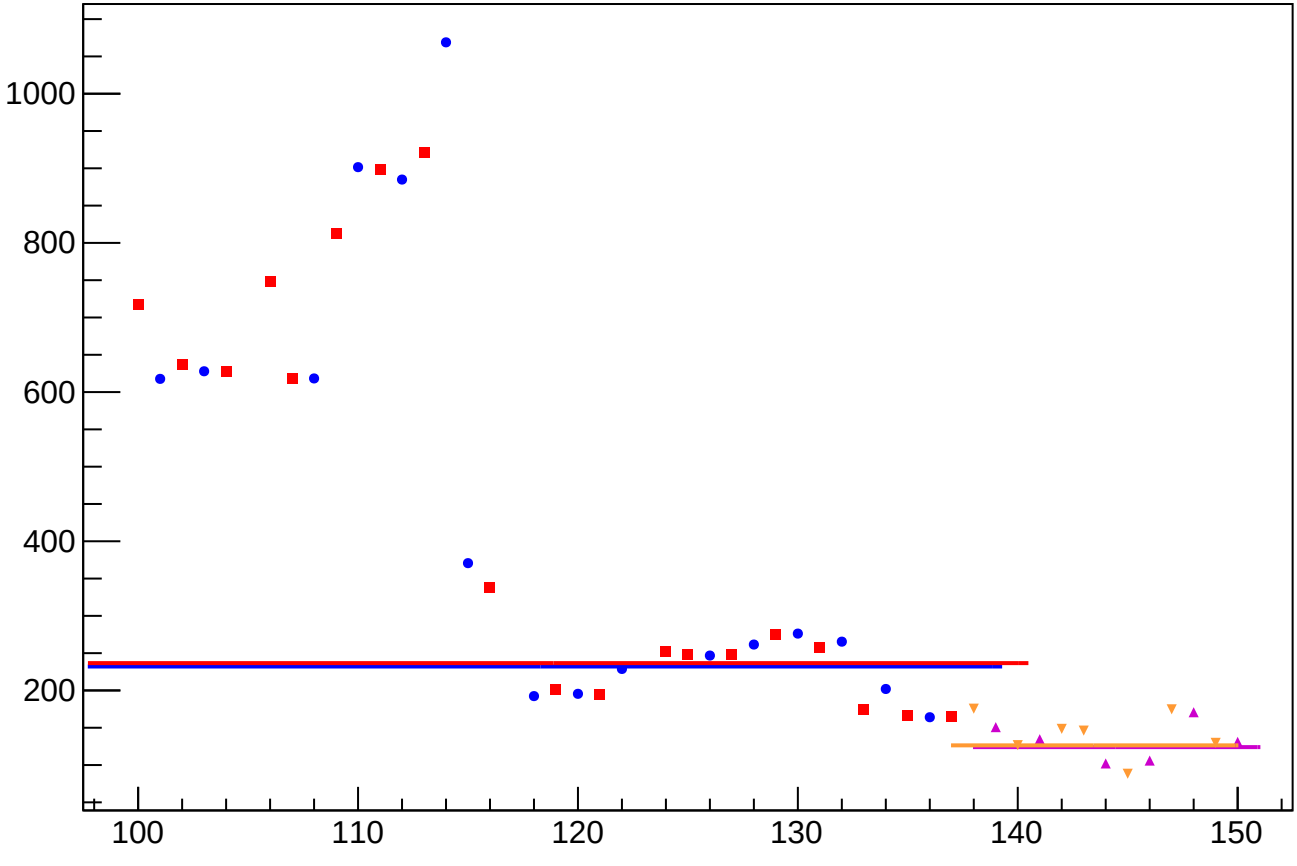
Right: -125.569+/-69.180 $\chi^2$/NDF: 27.5/34

In: -86.221+/-48.185 $\chi^2$/NDF:20.6/21

Out: 78.379+/-49.024 $\chi^2$/NDF:26.7/25

All: -5.341+/-34.365 $\chi^2$/NDF: 53.0/47

# asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 232.107+/-0.068 $\chi^2$/NDF: 2885510.6/15

Left Out: 126.385+/-0.040 $\chi^2$/NDF:594532.6/6

Right Out: 236.647+/-0.070 $\chi^2$/NDF: 3521033.7/18

Left In: 124.034+/-0.039 $\chi^2$/NDF:319359.9/5

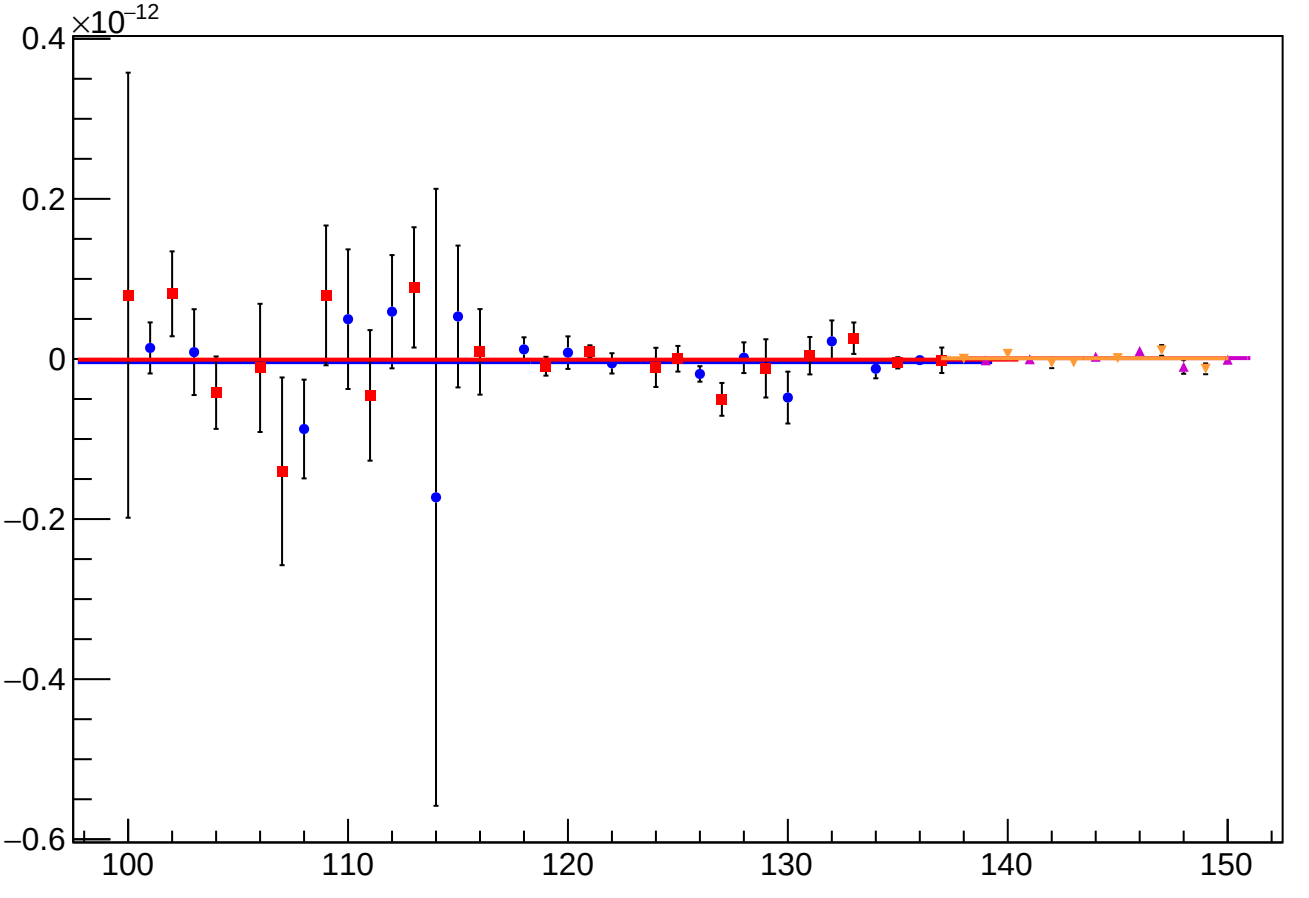
Left: 125.193+/-0.028 $\chi^2$/NDF: 915655.2/12

Right: 234.316+/-0.049 $\chi^2$/NDF: 6408696.2/34

In: 150.951+/-0.034 $\chi^2$/NDF:5086577.6/21

Out: 153.328+/-0.035 $\chi^2$/NDF:5983665.8/25

All: 152.119+/-0.024 $\chi^2$/NDF: 11072634.8/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.6/5

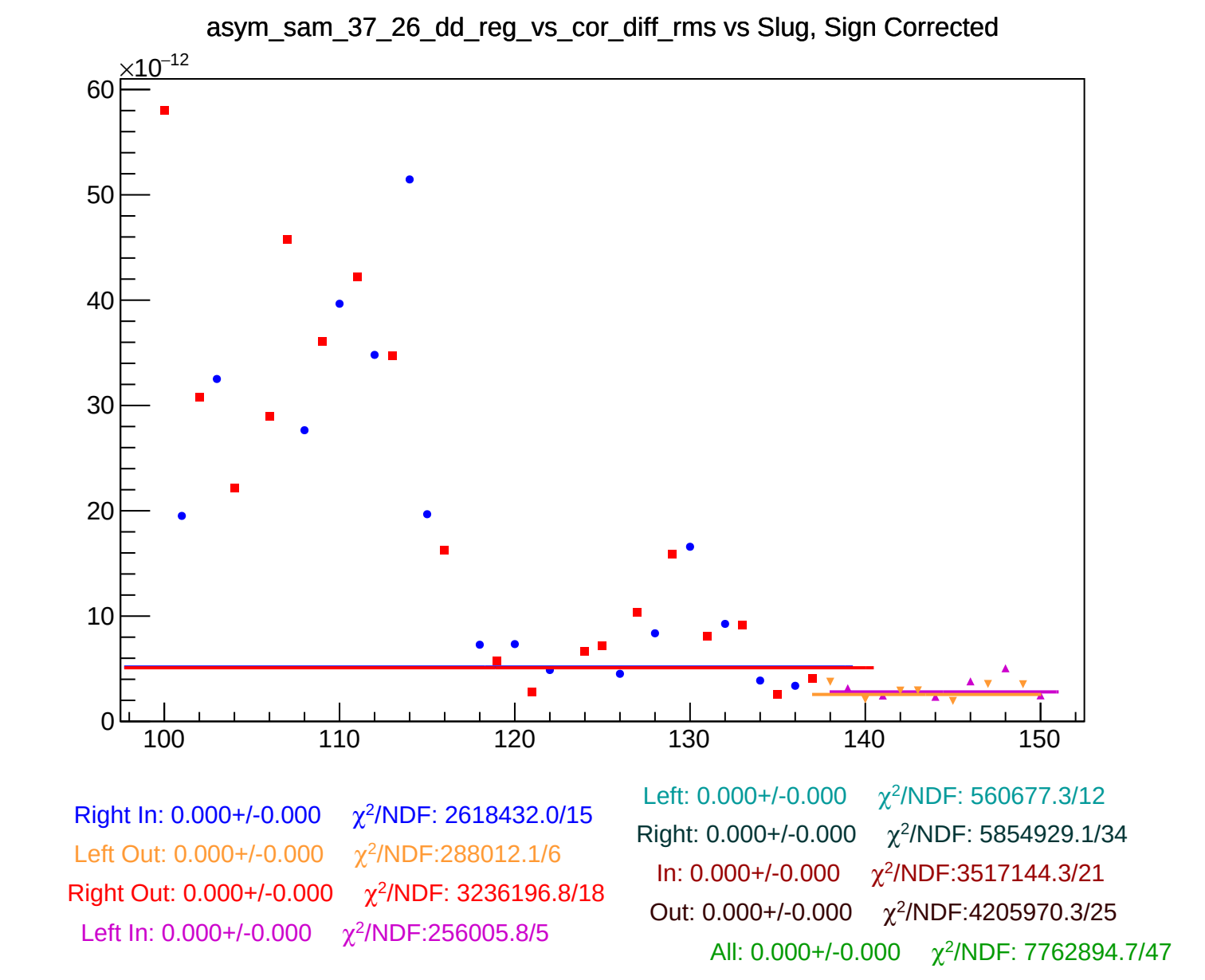
Left: 0.000+/-0.000 $\chi^2$/NDF: 14.7/12

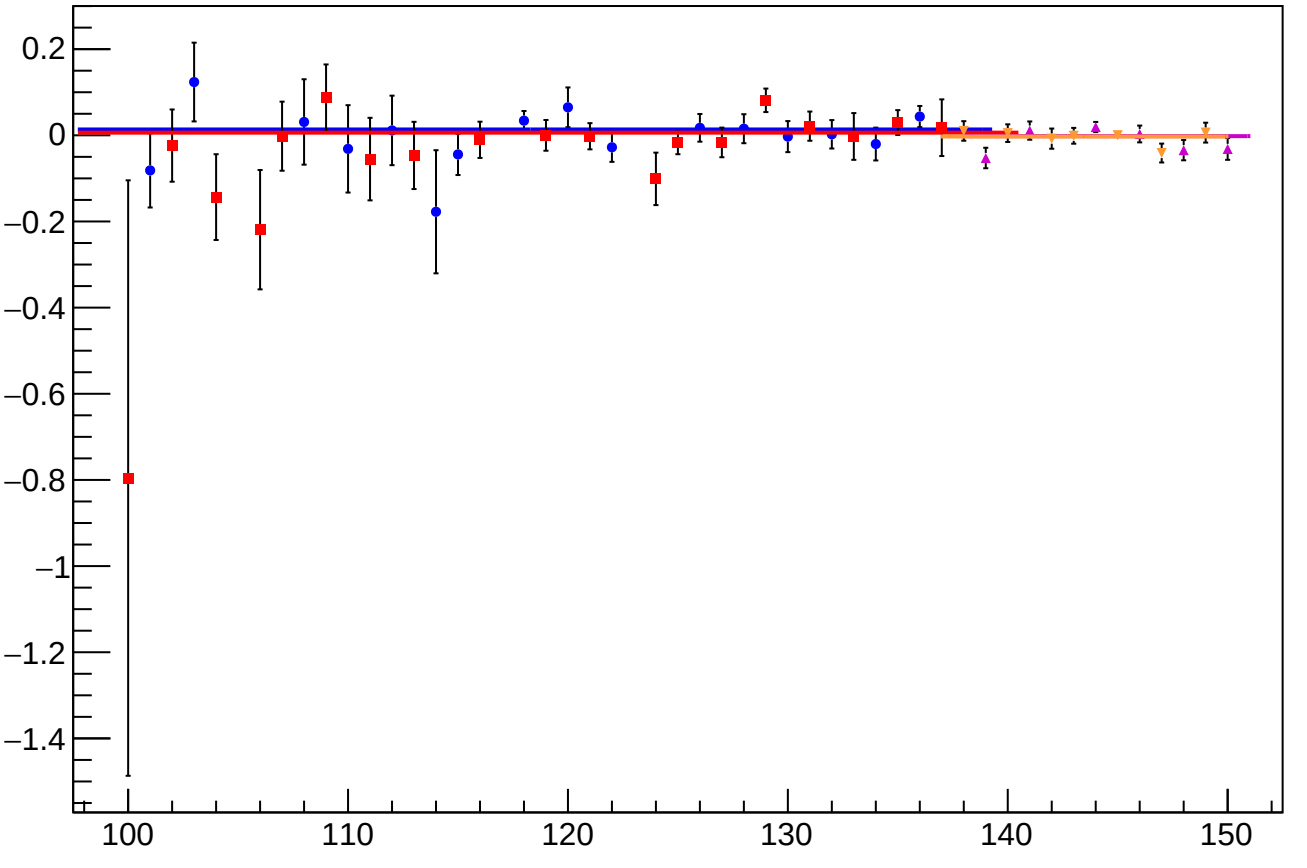
Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:28.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 45.9/47


asym_sam_37_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2618432.0/15
Left Out: 0.000+/-0.000 χ²/NDF:288012.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 3236196.8/18
Left In: 0.000+/-0.000 χ²/NDF:256005.8/5
Left: 0.000+/-0.000 χ²/NDF: 560677.3/12
Right: 0.000+/-0.000 χ²/NDF: 5854929.1/34
In: 0.000+/-0.000 χ²/NDF:3517144.3/21
Out: 0.000+/-0.000 χ²/NDF:4205970.3/25
All: 0.000+/-0.000 χ²/NDF: 7762894.7/47




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.007 $\chi^2$/NDF:3.8/6

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: -0.002+/-0.008 $\chi^2$/NDF:11.5/5

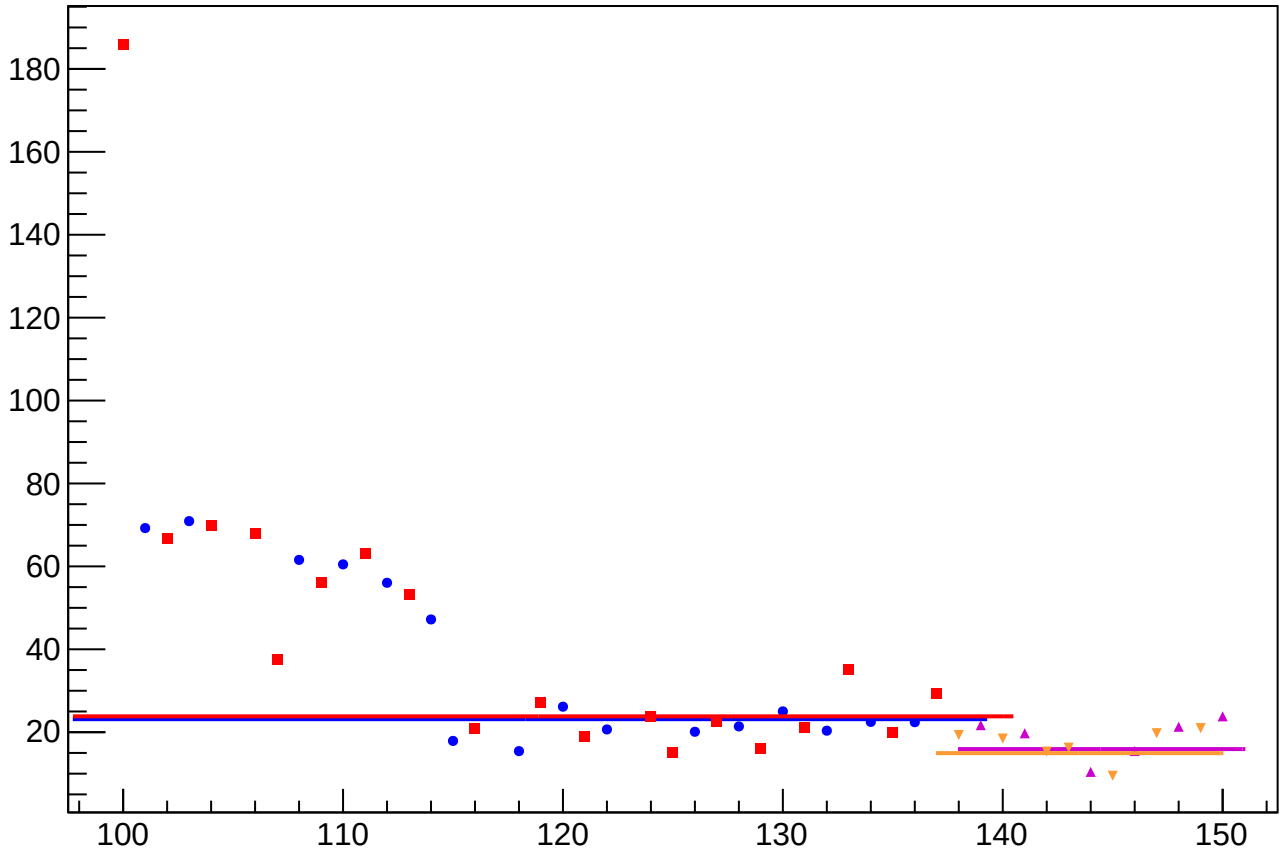
Left: -0.002+/-0.005 $\chi^2$/NDF: 15.3/12

Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.006 $\chi^2$/NDF:25.4/21

Out: 0.000+/-0.006 $\chi^2$/NDF:25.8/25

All: 0.002+/-0.004 $\chi^2$/NDF: 51.4/47




Right In: 23.145+/-0.007 $\chi^2$/NDF: 2406426.8/15

Left Out: 14.954+/-0.005 $\chi^2$/NDF:843180.8/6

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 15.931+/-0.005 $\chi^2$/NDF:918054.0/5

Left: 15.395+/-0.004 $\chi^2$/NDF: 1779225.9/12

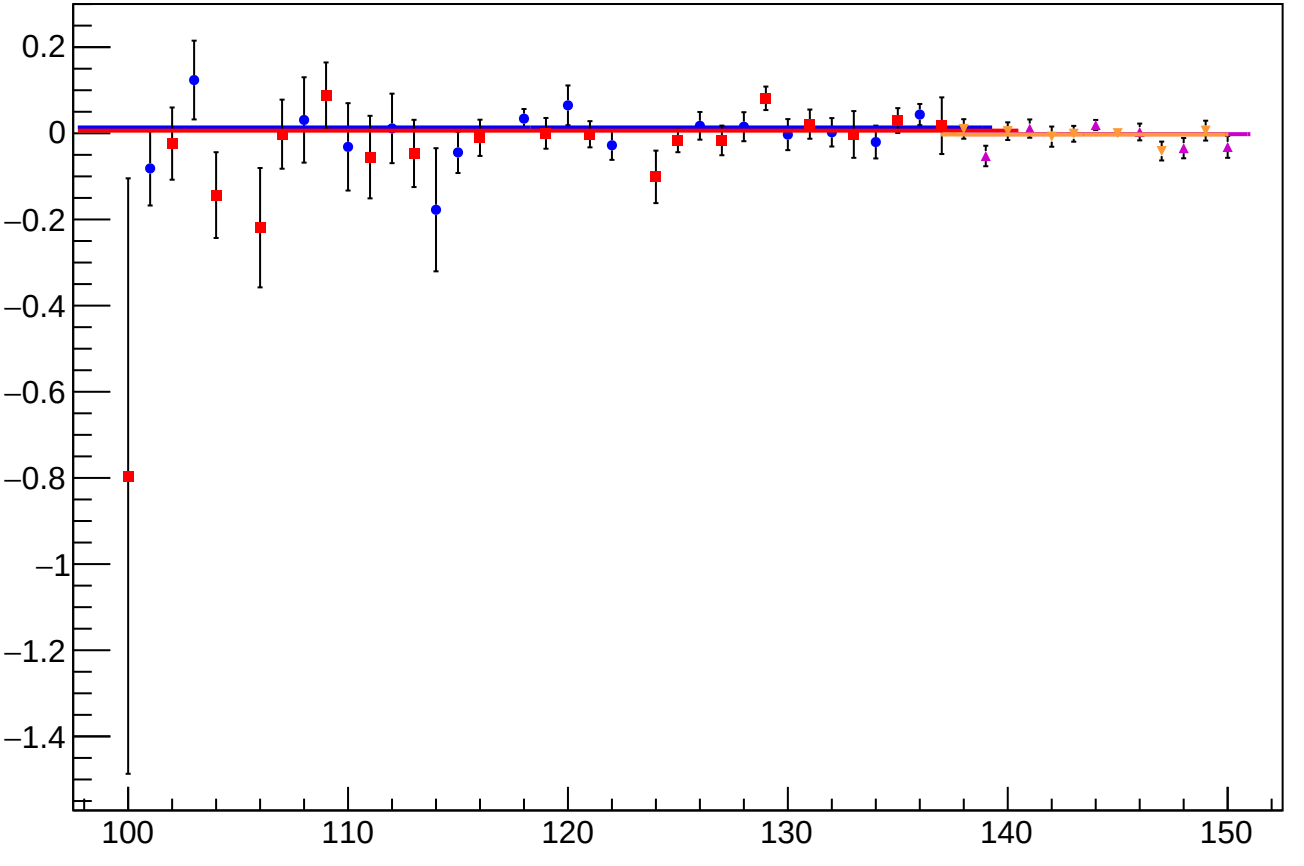
Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

In: 18.637+/-0.004 $\chi^2$/NDF:3995440.6/21

Out: 17.797+/-0.004 $\chi^2$/NDF:4797135.6/25

All: 18.193+/-0.003 $\chi^2$/NDF: 8813029.4/47

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.007 $\chi^2$/NDF:3.8/6

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: -0.002+/-0.008 $\chi^2$/NDF:11.5/5

Left: -0.002+/-0.005 $\chi^2$/NDF: 15.3/12

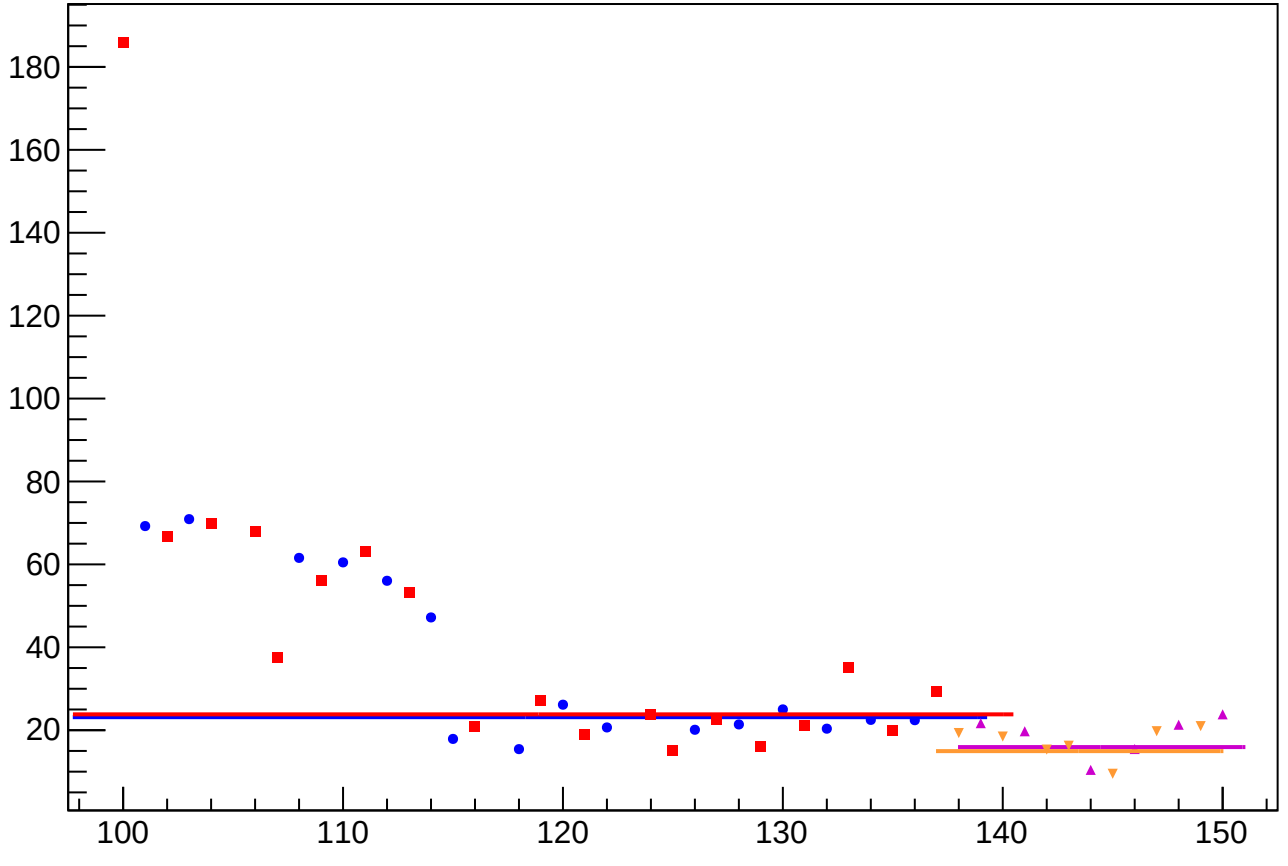
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.006 $\chi^2$/NDF:25.4/21

Out: 0.000+/-0.006 $\chi^2$/NDF:25.8/25

All: 0.002+/-0.004 $\chi^2$/NDF: 51.4/47

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.145+/-0.007 $\chi^2$/NDF: 2406426.8/15

Left Out: 14.954+/-0.005 $\chi^2$/NDF:843180.8/6

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 15.931+/-0.005 $\chi^2$/NDF:918054.0/5

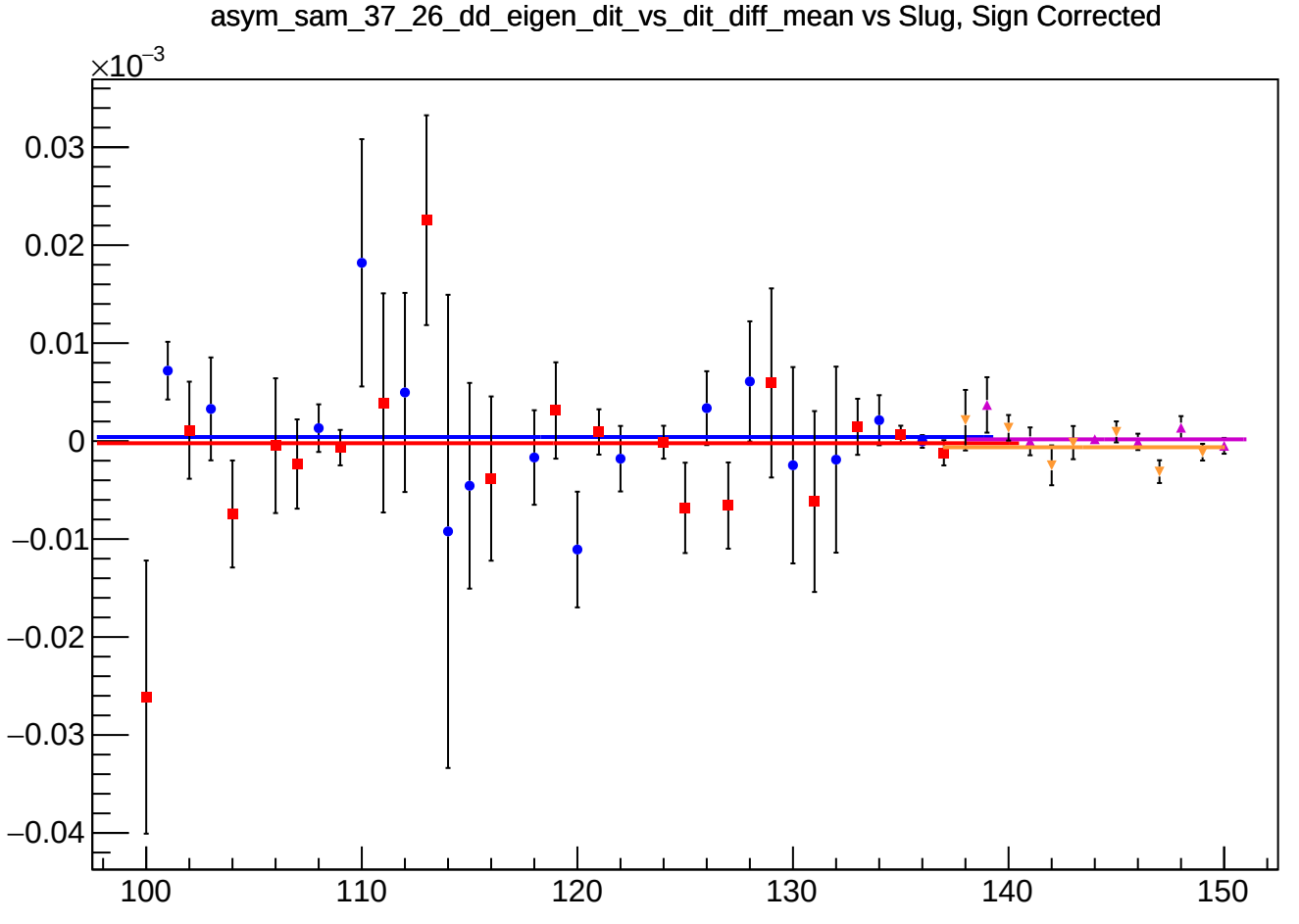
Left: 15.395+/-0.004 $\chi^2$/NDF: 1779225.9/12

Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

In: 18.637+/-0.004 $\chi^2$/NDF:3995440.6/21

Out: 17.797+/-0.004 $\chi^2$/NDF:4797135.6/25

All: 18.193+/-0.003 $\chi^2$/NDF: 8813029.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.1/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.4/5

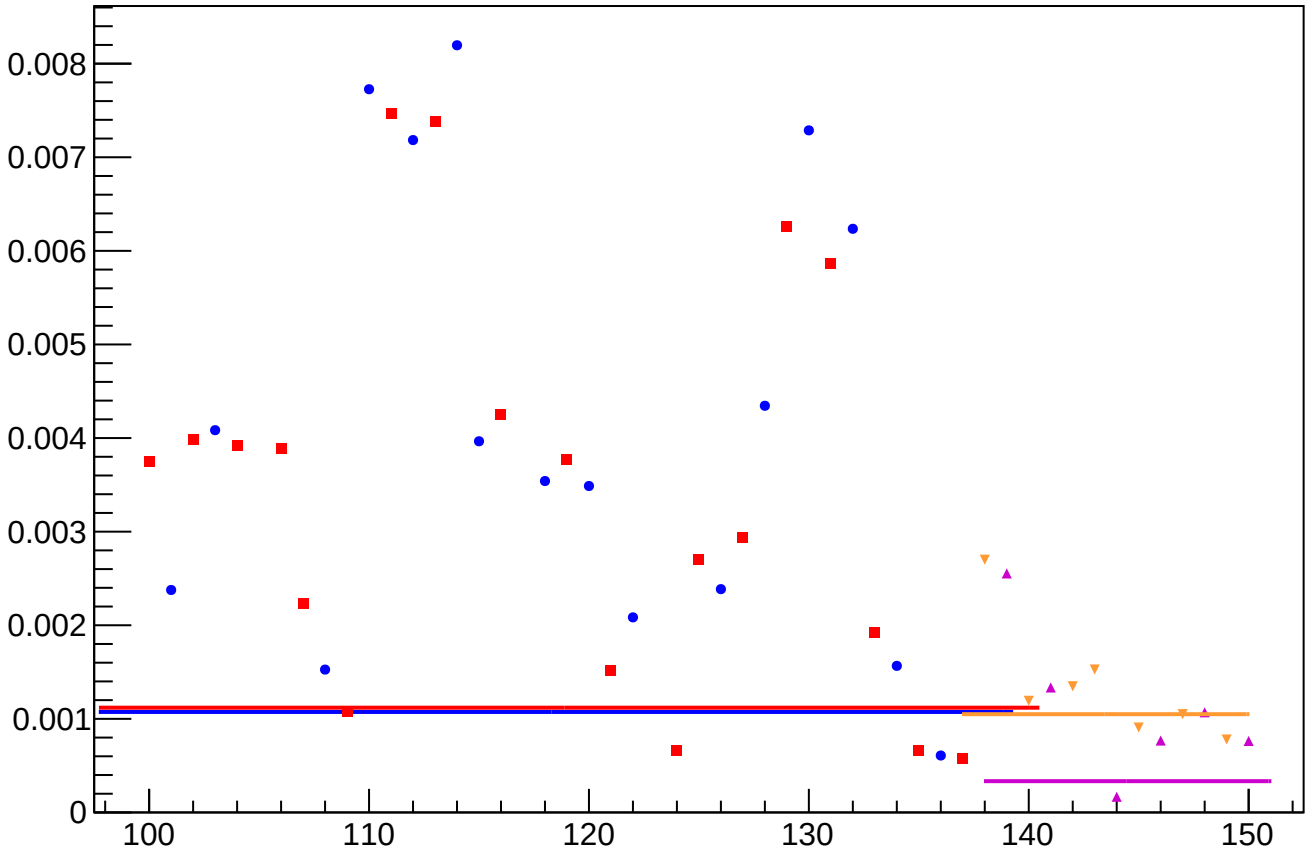
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.7/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:29.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 50.5/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7045313.7/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1033370.5/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6796343.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4973326.6/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 9602703.8/12

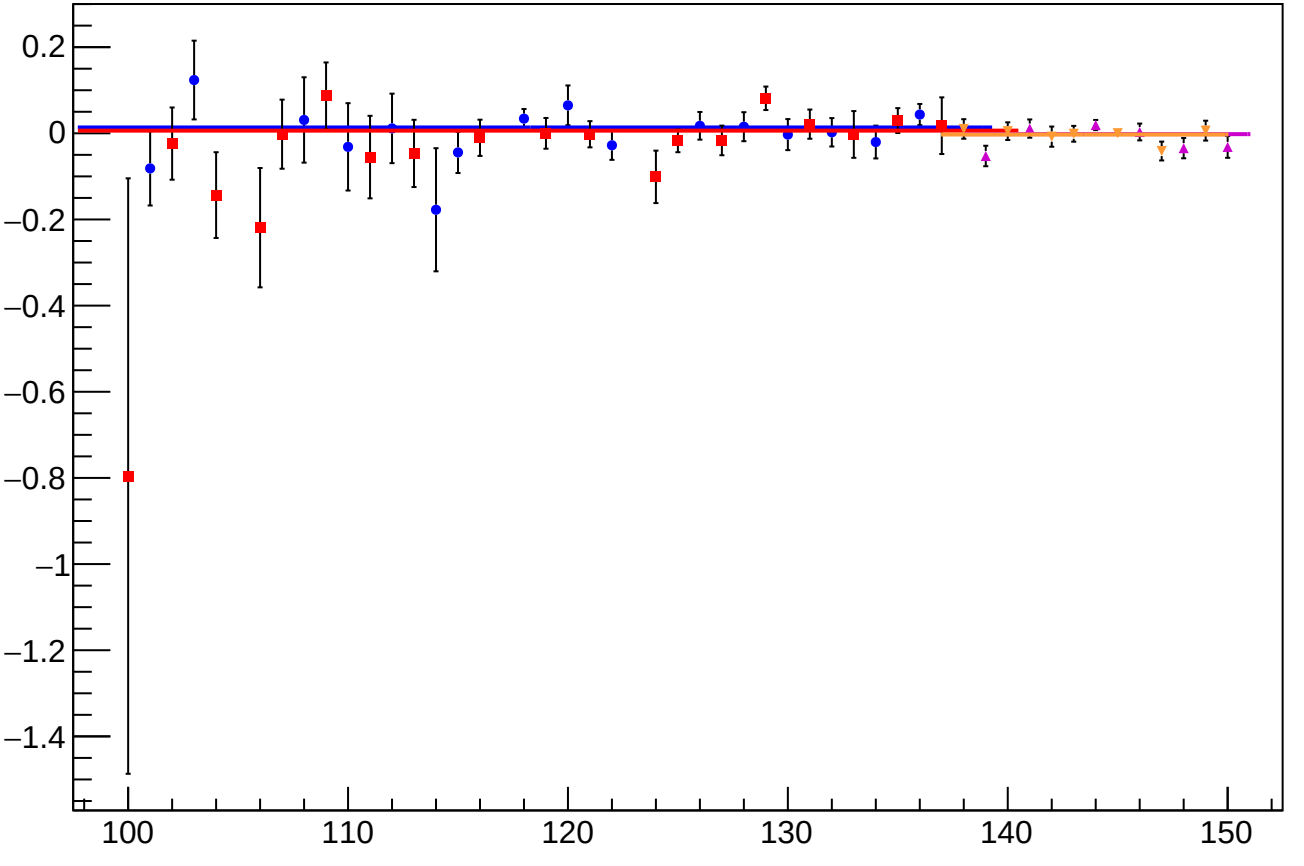
Right: 0.001+/-0.000 $\chi^2$/NDF: 13848160.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:15011429.9/21

Out: 0.001+/-0.000 $\chi^2$/NDF:7846984.3/25

All: 0.001+/-0.000 $\chi^2$/NDF: 27467126.2/47

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.007 $\chi^2$/NDF:3.8/6

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: -0.002+/-0.008 $\chi^2$/NDF:11.5/5

Left: -0.002+/-0.005 $\chi^2$/NDF: 15.3/12

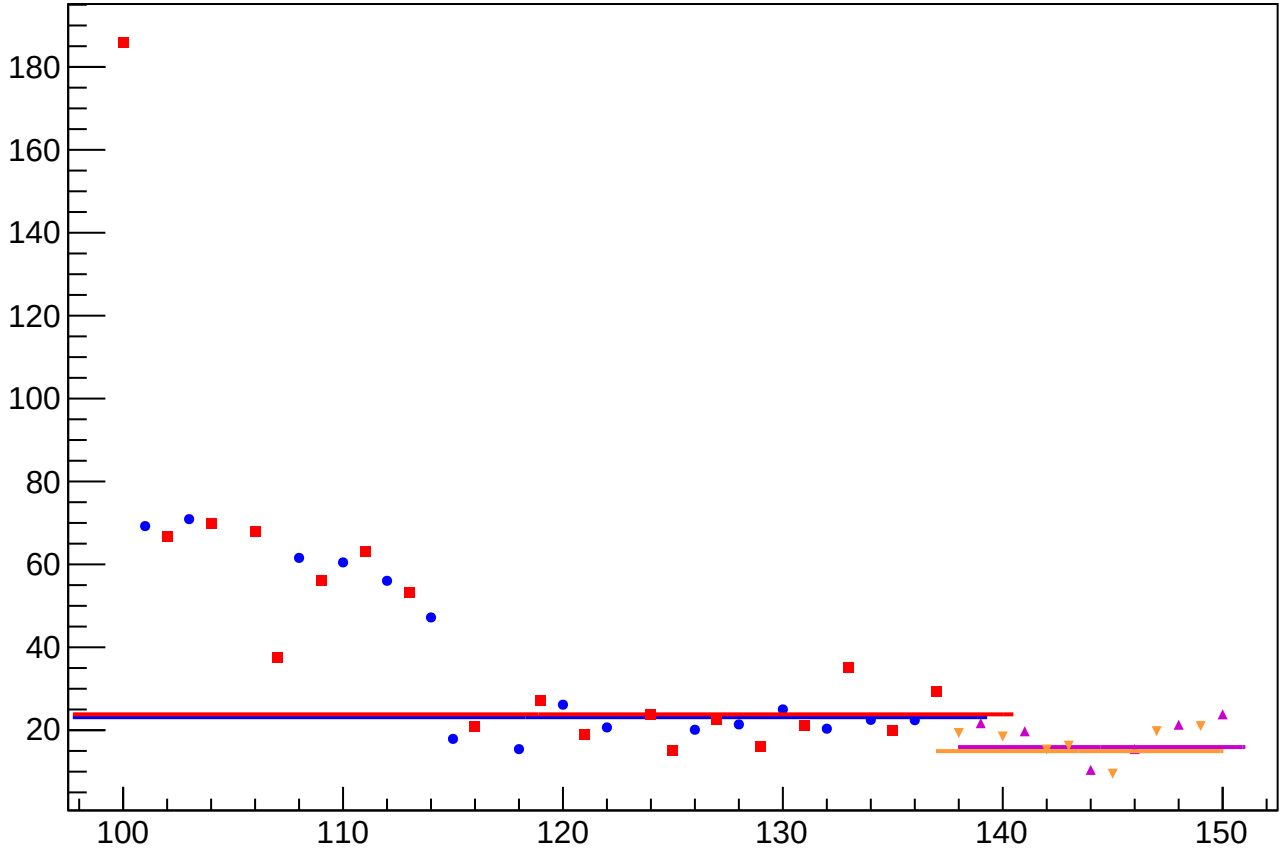
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.006 $\chi^2$/NDF:25.4/21

Out: 0.000+/-0.006 $\chi^2$/NDF:25.8/25

All: 0.002+/-0.004 $\chi^2$/NDF: 51.4/47

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.144+/-0.007 $\chi^2$/NDF: 2406451.1/15

Left Out: 14.954+/-0.005 $\chi^2$/NDF:843262.5/6

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 15.931+/-0.005 $\chi^2$/NDF:918017.0/5

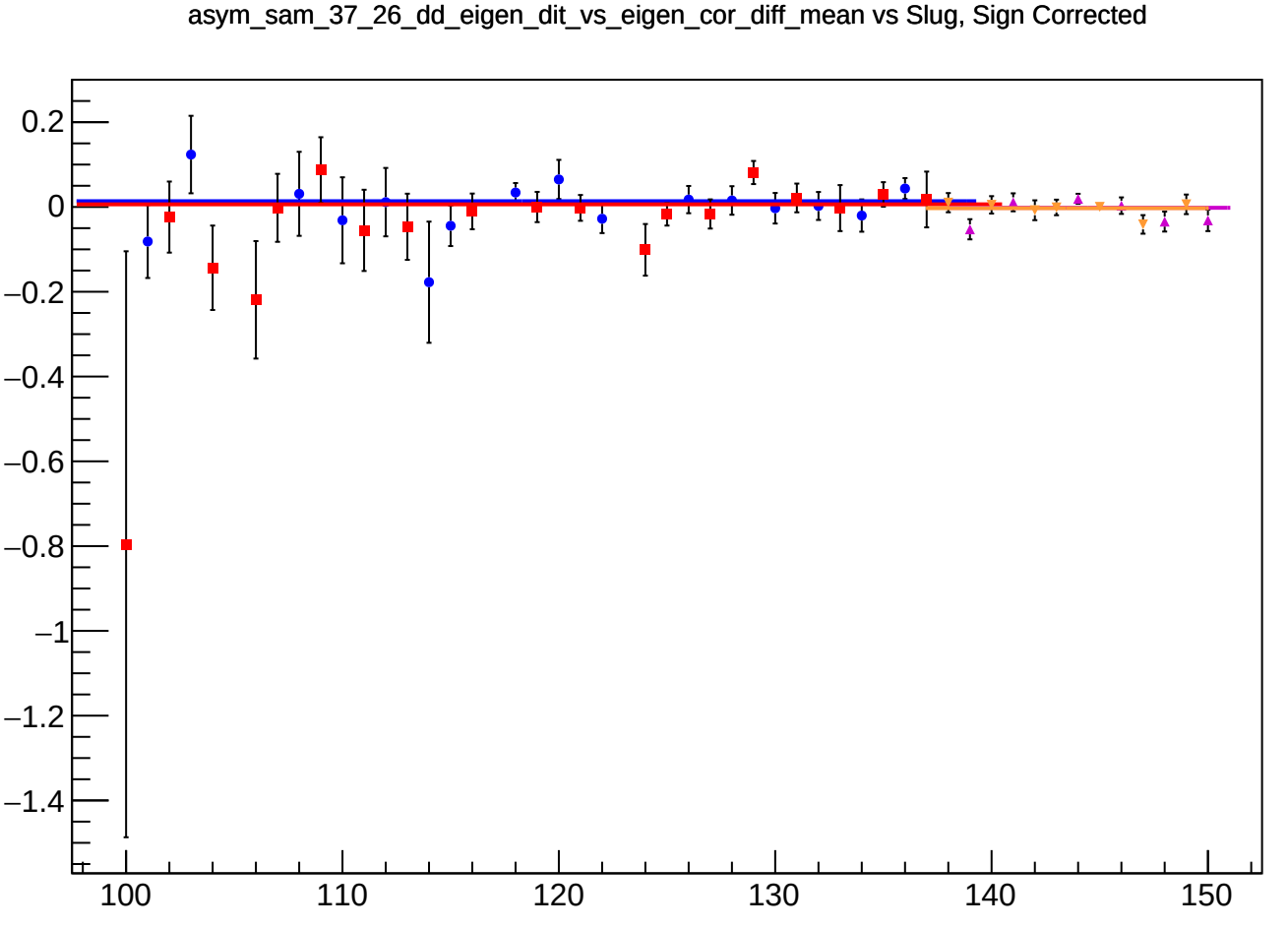
Left: 15.395+/-0.004 $\chi^2$/NDF: 1779272.8/12

Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 18.636+/-0.004 $\chi^2$/NDF:3995202.6/21

Out: 17.797+/-0.004 $\chi^2$/NDF:4797040.4/25

All: 18.193+/-0.003 $\chi^2$/NDF: 8812687.6/47




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.007 $\chi^2$/NDF:3.8/6

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: -0.002+/-0.008 $\chi^2$/NDF:11.5/5

Left: -0.002+/-0.005 $\chi^2$/NDF: 15.3/12

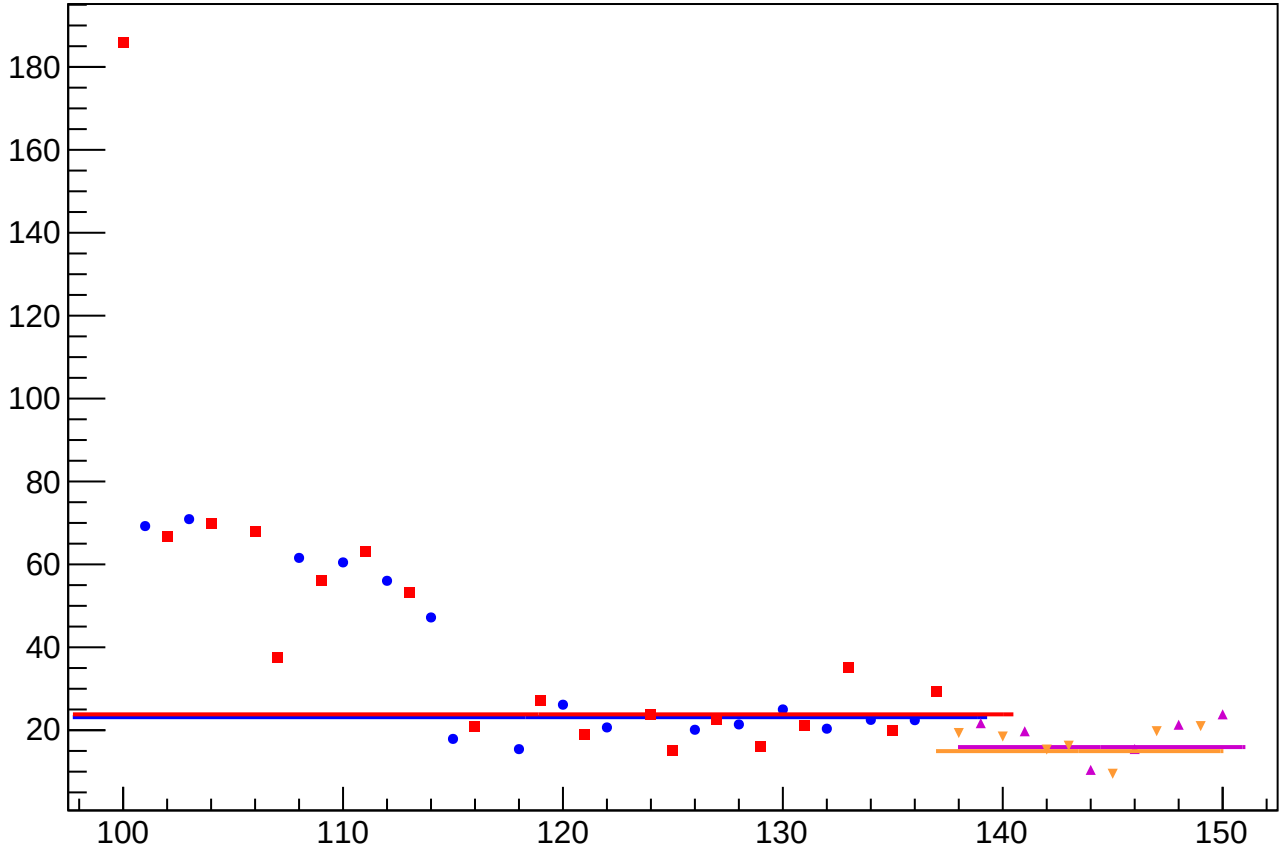
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.006 $\chi^2$/NDF:25.4/21

Out: 0.000+/-0.006 $\chi^2$/NDF:25.8/25

All: 0.002+/-0.004 $\chi^2$/NDF: 51.4/47

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.144+/-0.007 $\chi^2$/NDF: 2406451.1/15

Left Out: 14.954+/-0.005 $\chi^2$/NDF:843262.5/6

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 15.931+/-0.005 $\chi^2$/NDF:918017.0/5

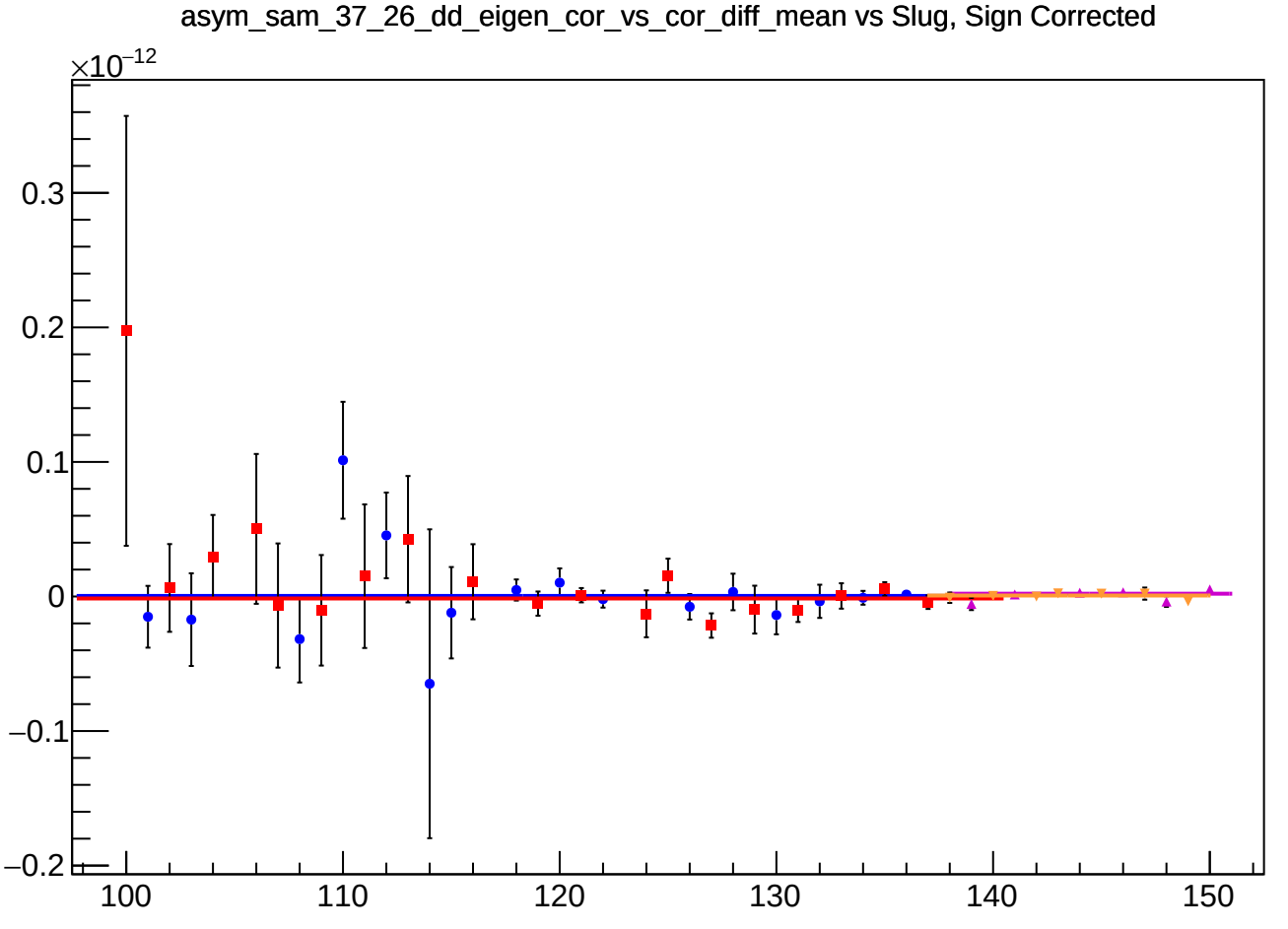
Left: 15.395+/-0.004 $\chi^2$/NDF: 1779272.8/12

Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 18.636+/-0.004 $\chi^2$/NDF:3995202.6/21

Out: 17.797+/-0.004 $\chi^2$/NDF:4797040.4/25

All: 18.193+/-0.003 $\chi^2$/NDF: 8812687.6/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:6.8/5

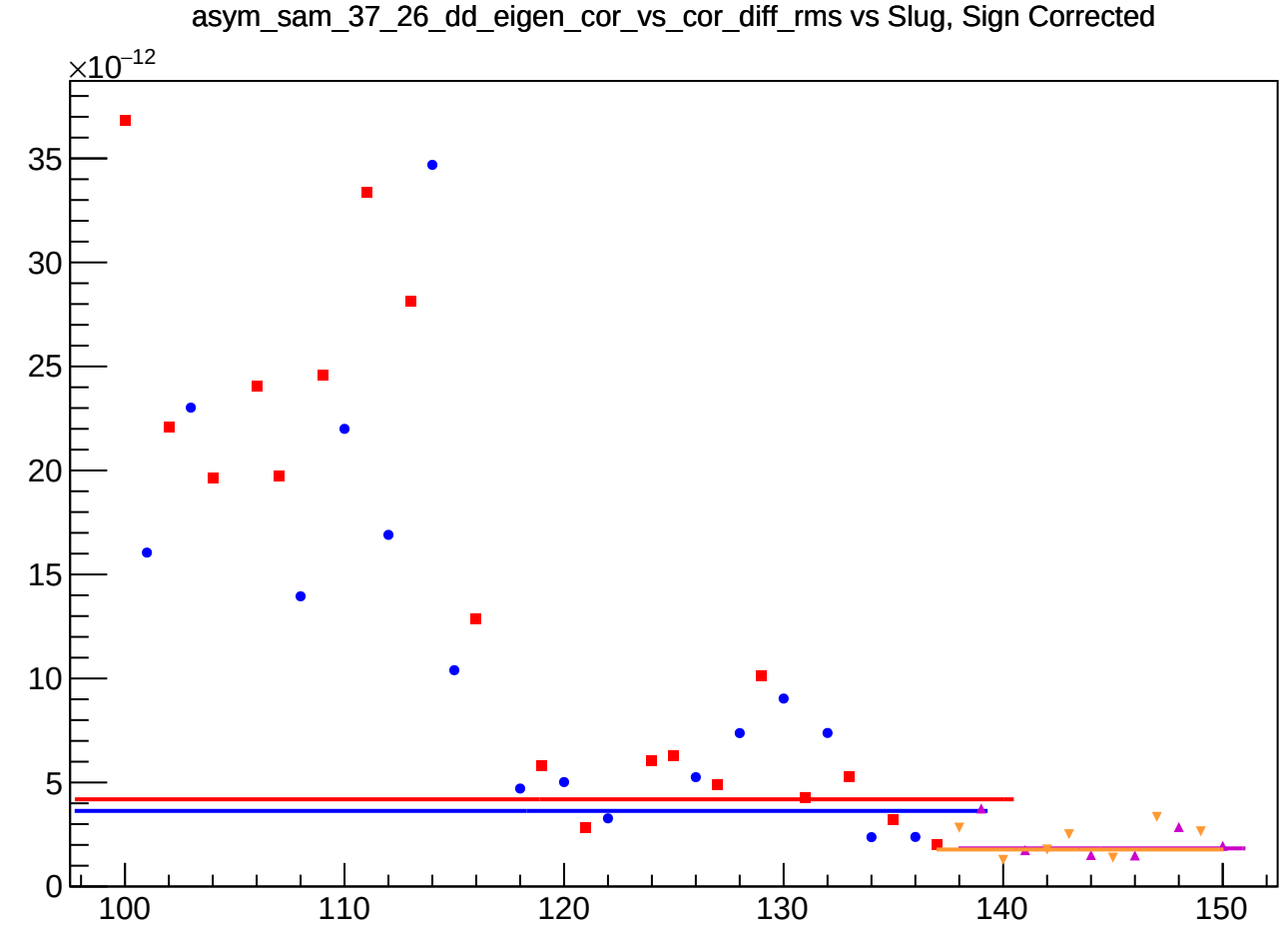
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.4/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:19.1/25

All: 0.000+/-0.000 $\chi^2$/NDF: 40.4/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3590314.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:893700.7/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4454808.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:599712.0/5

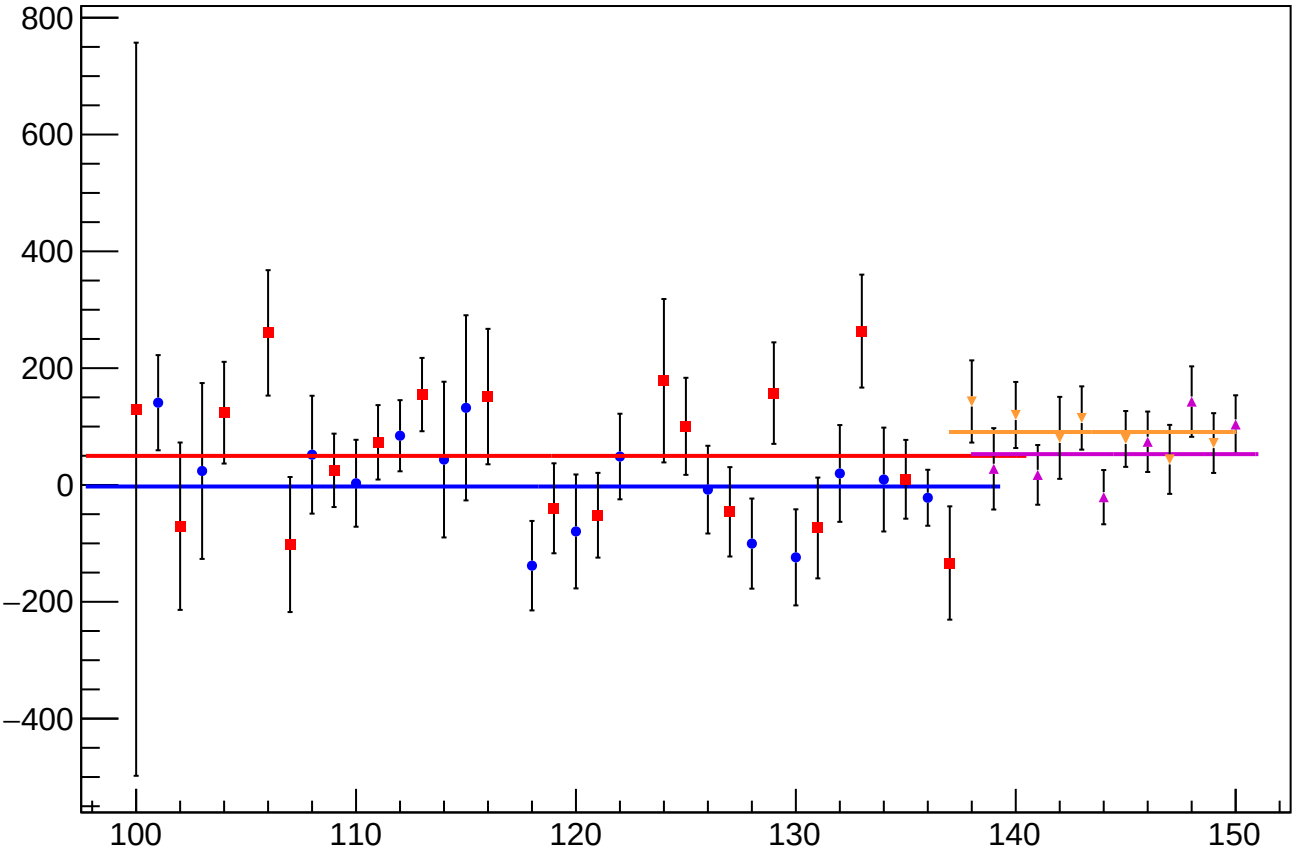
Left: 0.000+/-0.000 $\chi^2$/NDF: 1496276.0/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 8108622.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5415323.7/21

Out: 0.000+/-0.000 $\chi^2$/NDF:7135431.8/25

All: 0.000+/-0.000 $\chi^2$/NDF: 12555560.8/47




Right In: -2.614+/-19.994 $\chi^2$/NDF: 14.6/15

Left Out: 90.673+/-21.498 $\chi^2$/NDF:1.9/6

Right Out: 49.810+/-19.621 $\chi^2$/NDF: 29.4/18

Left In: 52.807+/-21.816 $\chi^2$/NDF:6.6/5

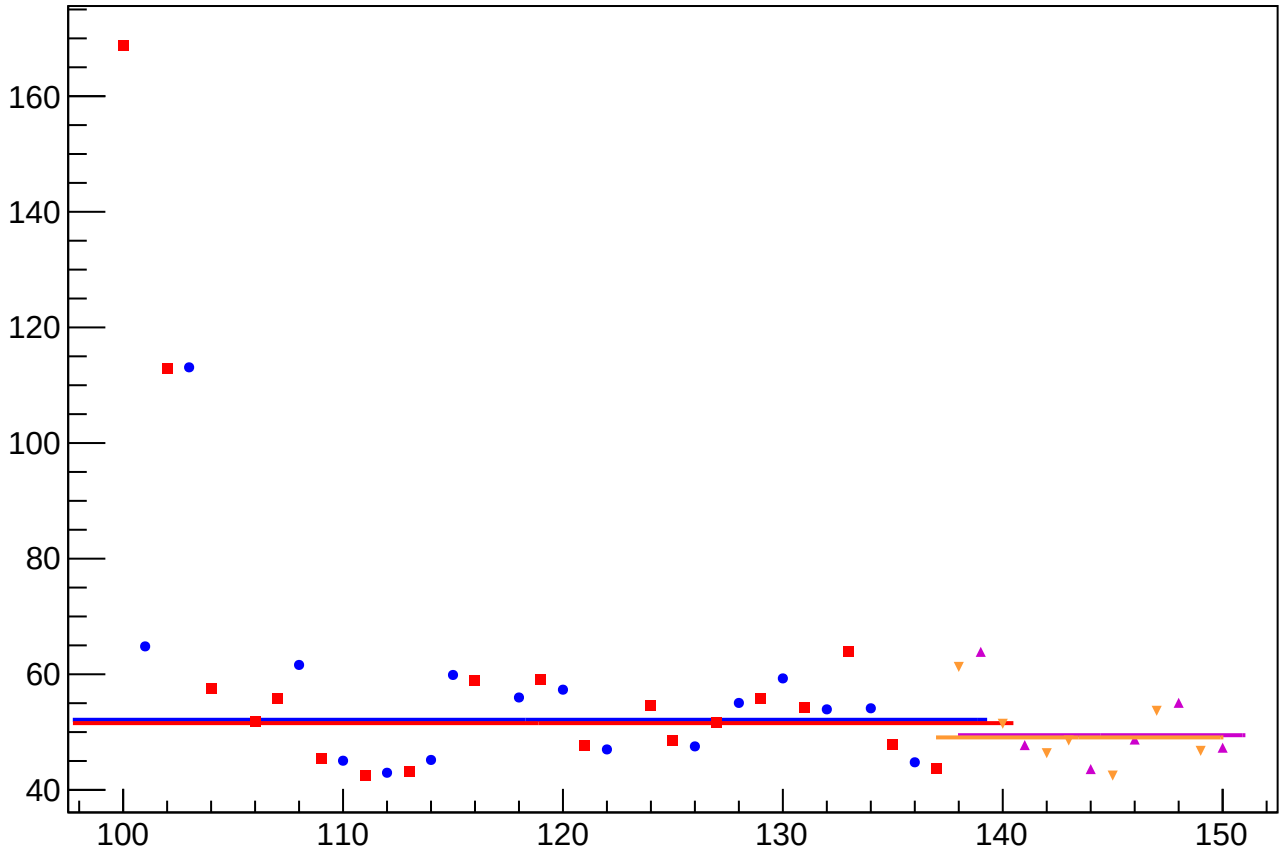
Left: 72.019+/-15.313 $\chi^2$/NDF: 9.9/12

Right: 24.091+/-14.004 $\chi^2$/NDF: 47.4/34

In: 22.686+/-14.740 $\chi^2$/NDF:24.6/21

Out: 68.380+/-14.492 $\chi^2$/NDF:33.2/25

All: 45.921+/-10.334 $\chi^2$/NDF: 62.7/47




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562918.0/15

Left Out: 49.079+/-0.015 $\chi^2$/NDF:121204.4/6

Right Out: 51.550+/-0.014 $\chi^2$/NDF: 639564.9/18

Left In: 49.461+/-0.015 $\chi^2$/NDF:141164.2/5

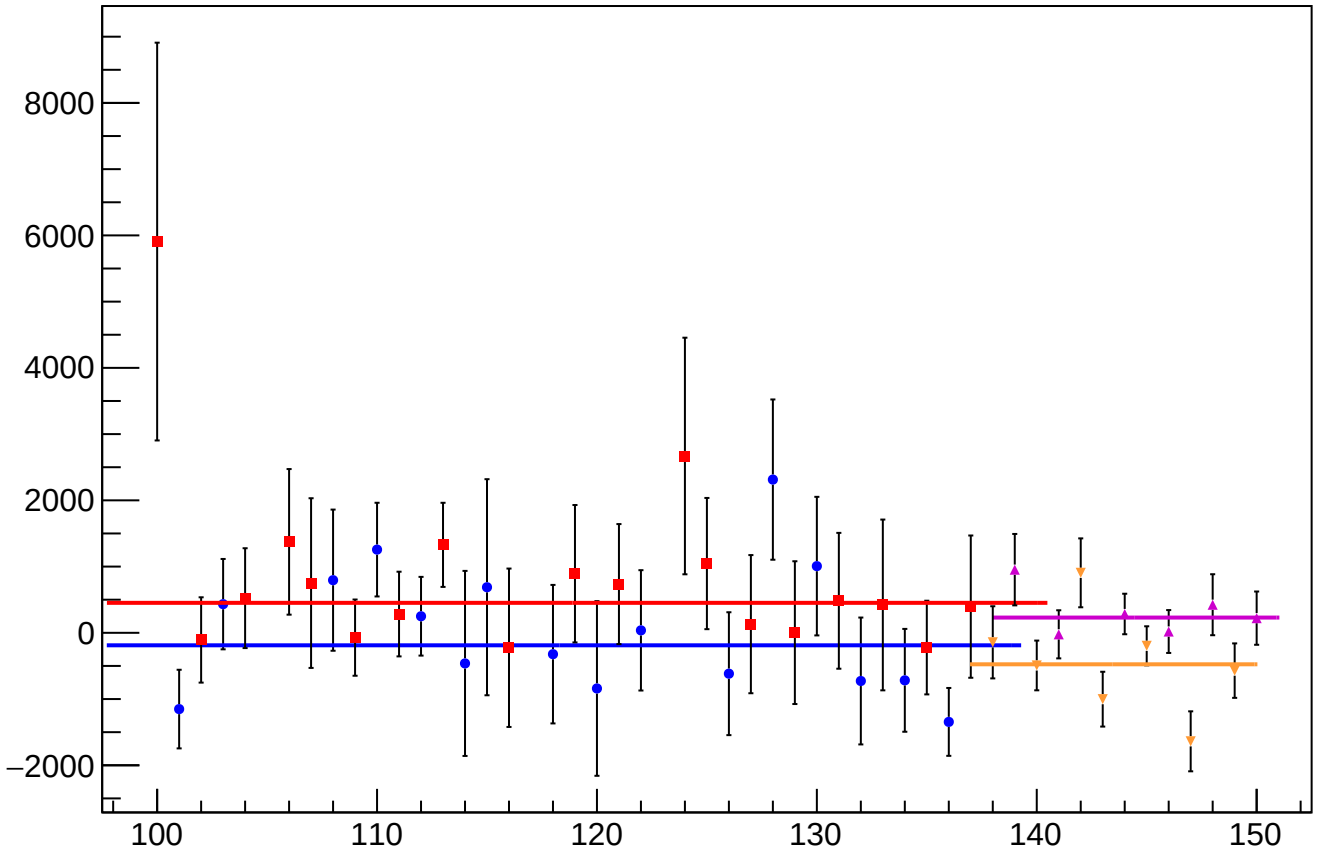
Left: 49.267+/-0.011 $\chi^2$/NDF: 262679.7/12

Right: 51.834+/-0.010 $\chi^2$/NDF: 1203336.1/34

In: 50.911+/-0.010 $\chi^2$/NDF:720332.6/21

Out: 50.427+/-0.010 $\chi^2$/NDF:775182.6/25

All: 50.665+/-0.007 $\chi^2$/NDF: 1496610.5/47




Right In: -188.563+/-205.811 $\chi^2$/NDF: 21.4/15

Left Out: -475.350+/-153.747 $\chi^2$/NDF:16.6/6

Right Out: 452.540+/-203.918 $\chi^2$/NDF: 11.3/18

Left In: 230.176+/-153.999 $\chi^2$/NDF:2.9/5

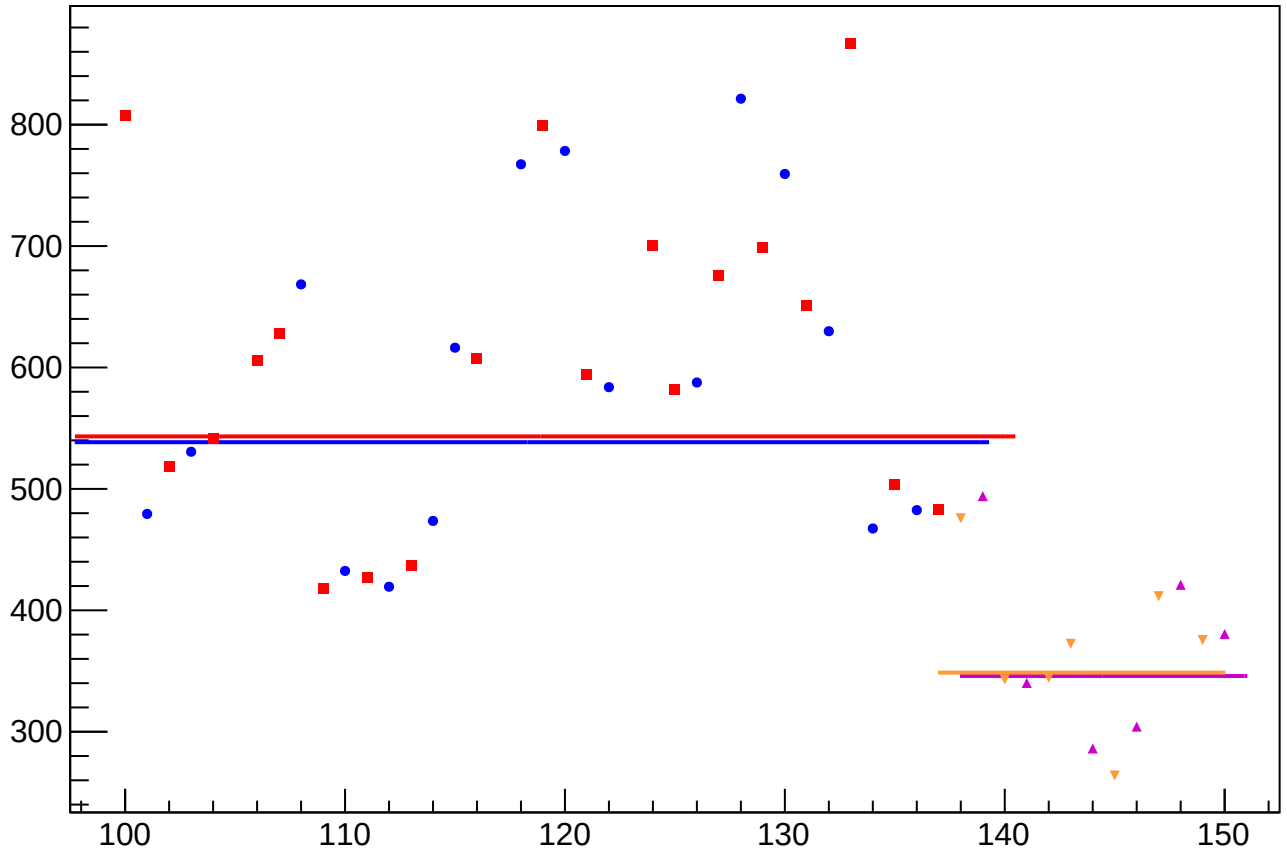
Left: -123.164+/-108.805 $\chi^2$/NDF: 30.0/12

Right: 134.950+/-144.856 $\chi^2$/NDF: 37.6/34

In: 79.879+/-123.303 $\chi^2$/NDF:26.9/21

Out: -139.050+/-122.764 $\chi^2$/NDF:41.1/25

All: -30.065+/-86.997 $\chi^2$/NDF: 69.6/47




Right In: 538.468+/-0.146 $\chi^2$/NDF: 613995.2/15

Left Out: 348.724+/-0.109 $\chi^2$/NDF:328526.2/6

Right Out: 543.242+/-0.144 $\chi^2$/NDF: 637115.5/18

Left In: 345.896+/-0.109 $\chi^2$/NDF:329011.7/5

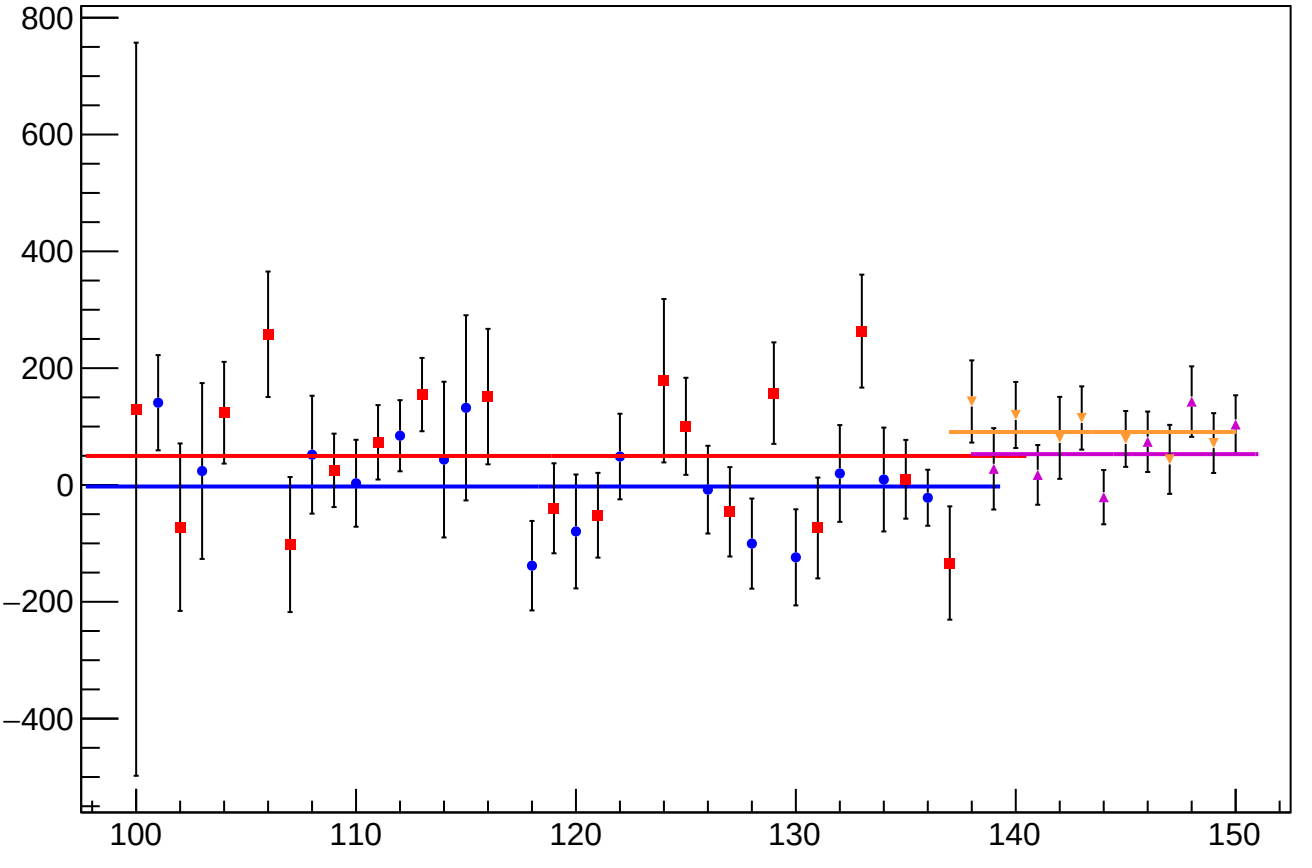
Left: 347.312+/-0.077 $\chi^2$/NDF: 657875.5/12

Right: 540.877+/-0.102 $\chi^2$/NDF: 1251653.7/34

In: 415.016+/-0.087 $\chi^2$/NDF:2065496.8/21

Out: 419.224+/-0.087 $\chi^2$/NDF:2125924.8/25

All: 417.129+/-0.062 $\chi^2$/NDF: 4192591.4/47




Right In: -2.618+/-19.995 $\chi^2$/NDF: 14.6/15

Left Out: 90.679+/-21.498 $\chi^2$/NDF:1.9/6

Right Out: 49.694+/-19.622 $\chi^2$/NDF: 29.3/18

Left In: 52.807+/-21.816 $\chi^2$/NDF:6.6/5

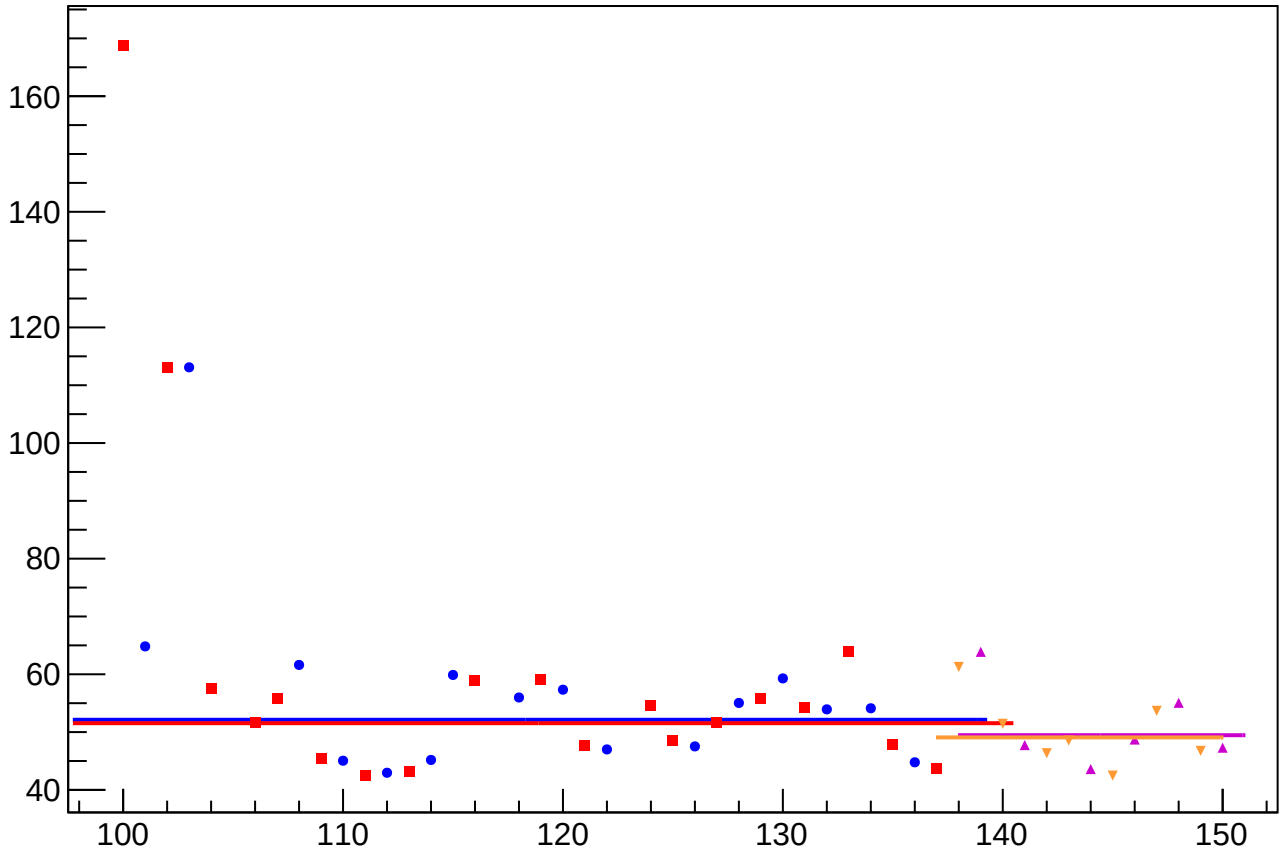
Left: 72.021+/-15.313 $\chi^2$/NDF: 9.9/12

Right: 24.030+/-14.005 $\chi^2$/NDF: 47.4/34

In: 22.684+/-14.740 $\chi^2$/NDF:24.7/21

Out: 68.320+/-14.493 $\chi^2$/NDF:33.1/25

All: 45.889+/-10.334 $\chi^2$/NDF: 62.6/47




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562920.3/15

Left Out: 49.079+/-0.015 $\chi^2$/NDF:121204.4/6

Right Out: 51.540+/-0.014 $\chi^2$/NDF: 639784.7/18

Left In: 49.461+/-0.015 $\chi^2$/NDF:141164.2/5

Left: 49.267+/-0.011 $\chi^2$/NDF: 262679.7/12

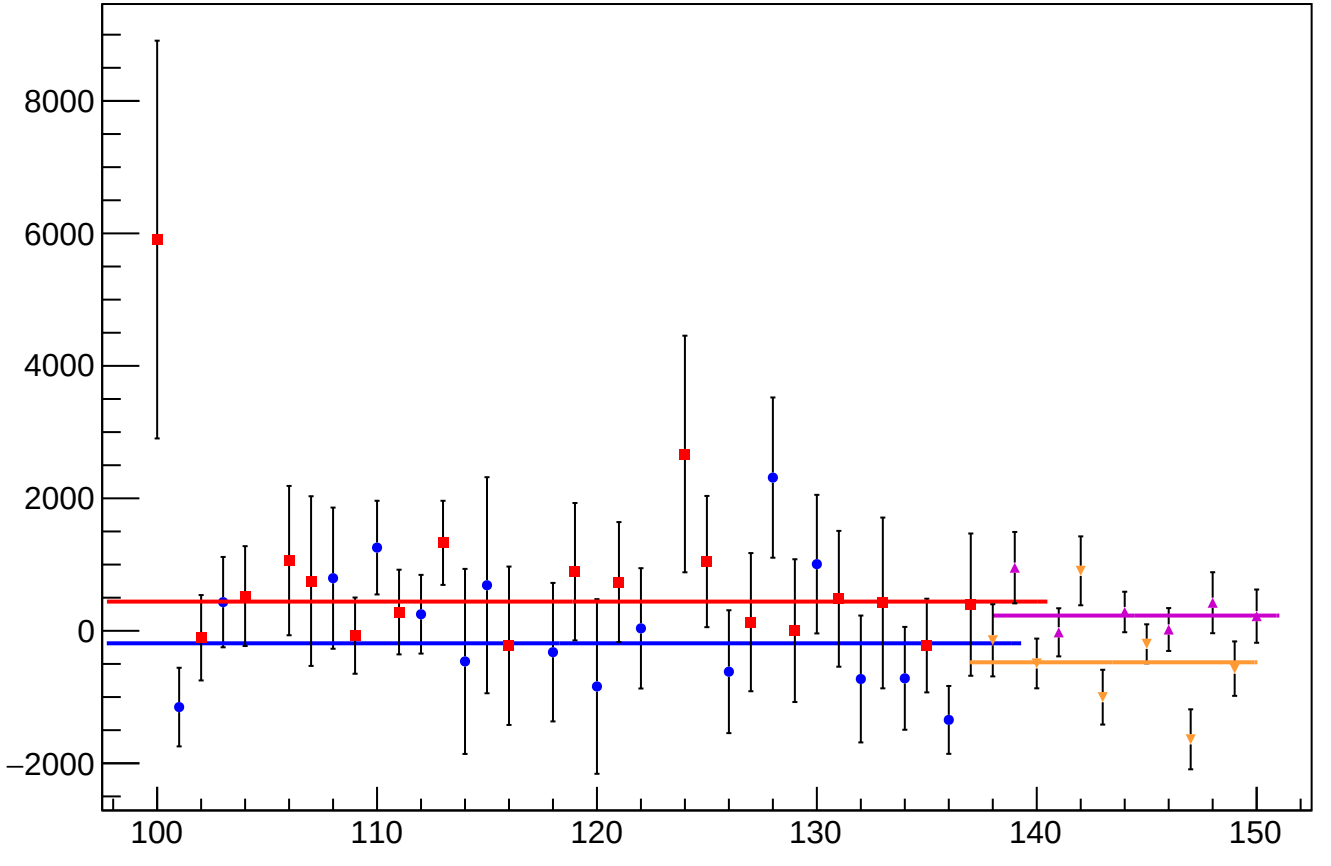
Right: 51.828+/-0.010 $\chi^2$/NDF: 1203588.8/34

In: 50.911+/-0.010 $\chi^2$/NDF:720334.9/21

Out: 50.421+/-0.010 $\chi^2$/NDF:775282.0/25

All: 50.662+/-0.007 $\chi^2$/NDF: 1496738.0/47

asym_sam_1357_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -188.541+/-205.813 $\chi^2$/NDF: 21.4/15

Left Out: -475.344+/-153.747 $\chi^2$/NDF:16.6/6

Right Out: 441.171+/-204.111 $\chi^2$/NDF: 10.9/18

Left In: 230.180+/-153.999 $\chi^2$/NDF:2.9/5

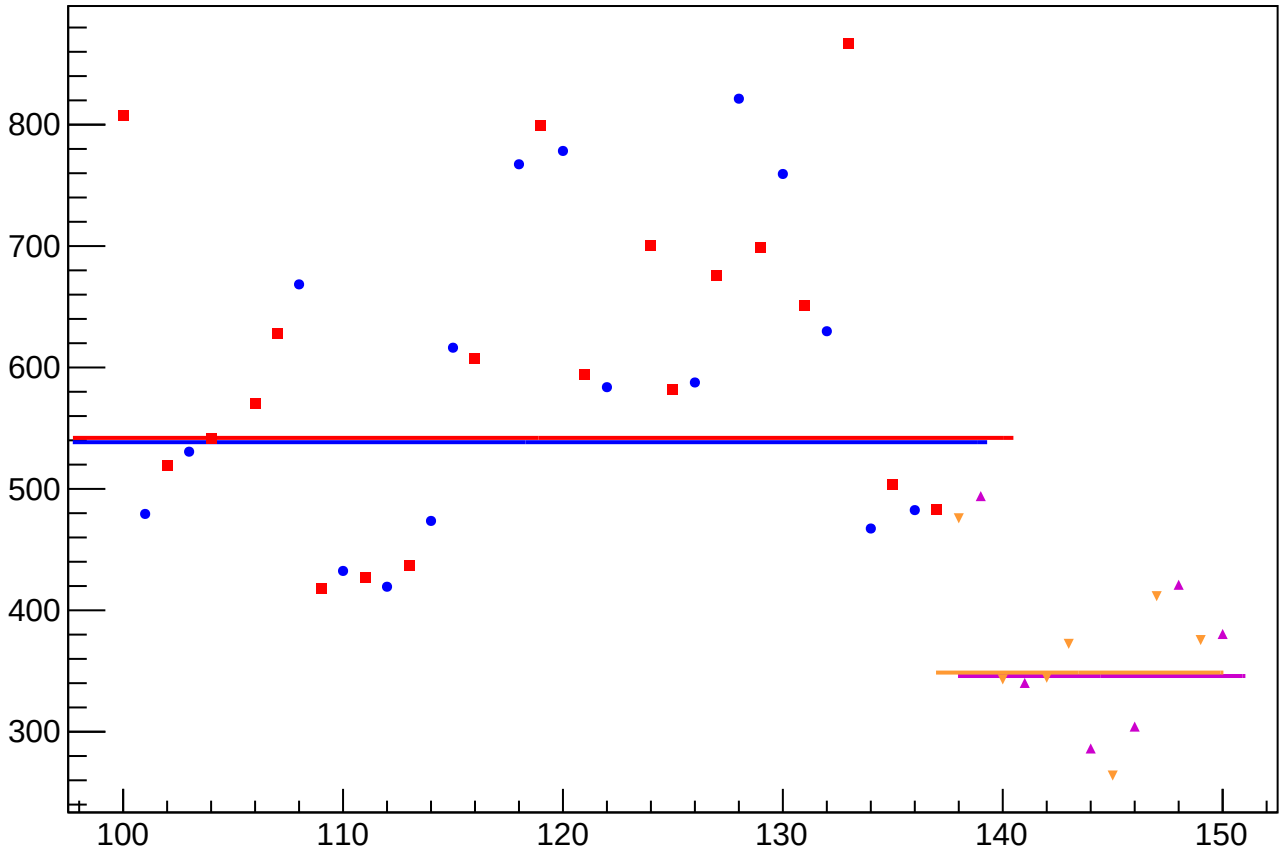
Left: -123.160+/-108.805 $\chi^2$/NDF: 30.0/12

Right: 128.930+/-144.926 $\chi^2$/NDF: 37.0/34

In: 79.891+/-123.303 $\chi^2$/NDF:26.9/21

Out: -143.568+/-122.806 $\chi^2$/NDF:40.3/25

All: -32.290+/-87.012 $\chi^2$/NDF: 68.9/47




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 348.723+/-0.109 $\chi^2$/NDF:328527.4/6

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 345.896+/-0.109 $\chi^2$/NDF:329011.0/5

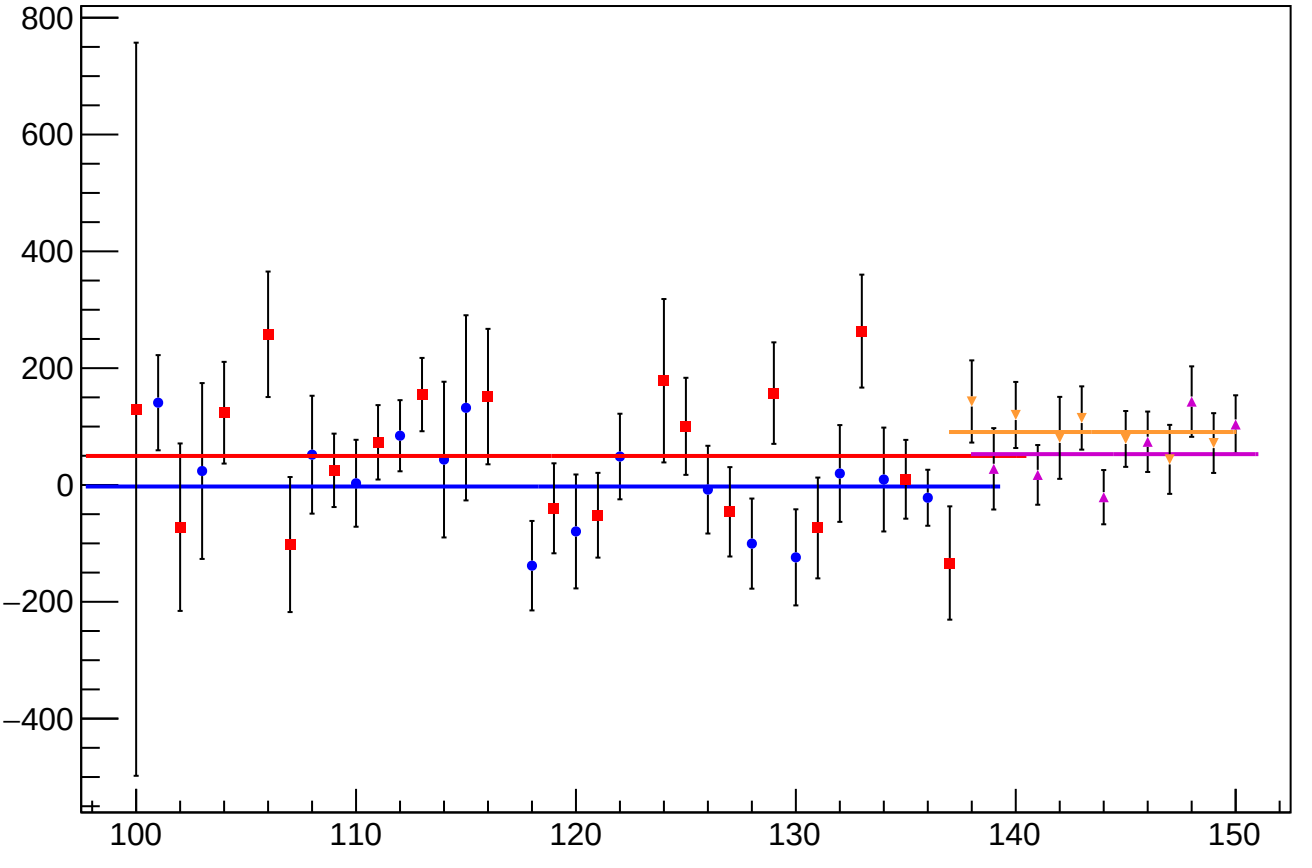
Left: 347.312+/-0.077 $\chi^2$/NDF: 657876.0/12

Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 415.017+/-0.087 $\chi^2$/NDF:2065539.7/21

Out: 418.698+/-0.087 $\chi^2$/NDF:2104525.3/25

All: 416.865+/-0.062 $\chi^2$/NDF: 4170960.1/47




Right In: -2.618+/-19.995 $\chi^2$/NDF: 14.6/15

Left Out: 90.679+/-21.498 $\chi^2$/NDF:1.9/6

Right Out: 49.694+/-19.622 $\chi^2$/NDF: 29.3/18

Left In: 52.807+/-21.816 $\chi^2$/NDF:6.6/5

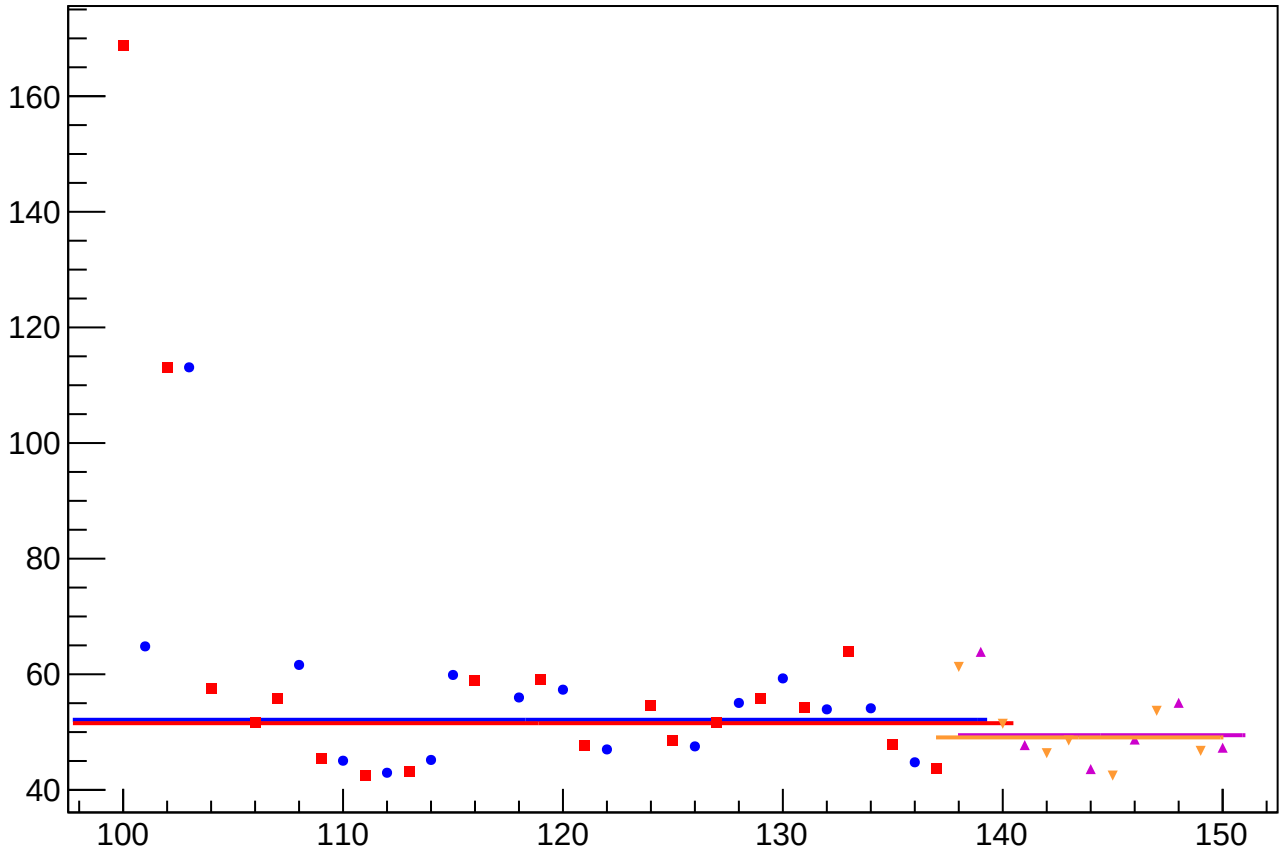
Left: 72.021+/-15.313 $\chi^2$/NDF: 9.9/12

Right: 24.030+/-14.005 $\chi^2$/NDF: 47.4/34

In: 22.684+/-14.740 $\chi^2$/NDF:24.7/21

Out: 68.320+/-14.493 $\chi^2$/NDF:33.1/25

All: 45.889+/-10.334 $\chi^2$/NDF: 62.6/47




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562920.3/15

Left Out: 49.079+/-0.015 $\chi^2$/NDF:121204.4/6

Right Out: 51.540+/-0.014 $\chi^2$/NDF: 639784.7/18

Left In: 49.461+/-0.015 $\chi^2$/NDF:141164.2/5

Left: 49.267+/-0.011 $\chi^2$/NDF: 262679.7/12

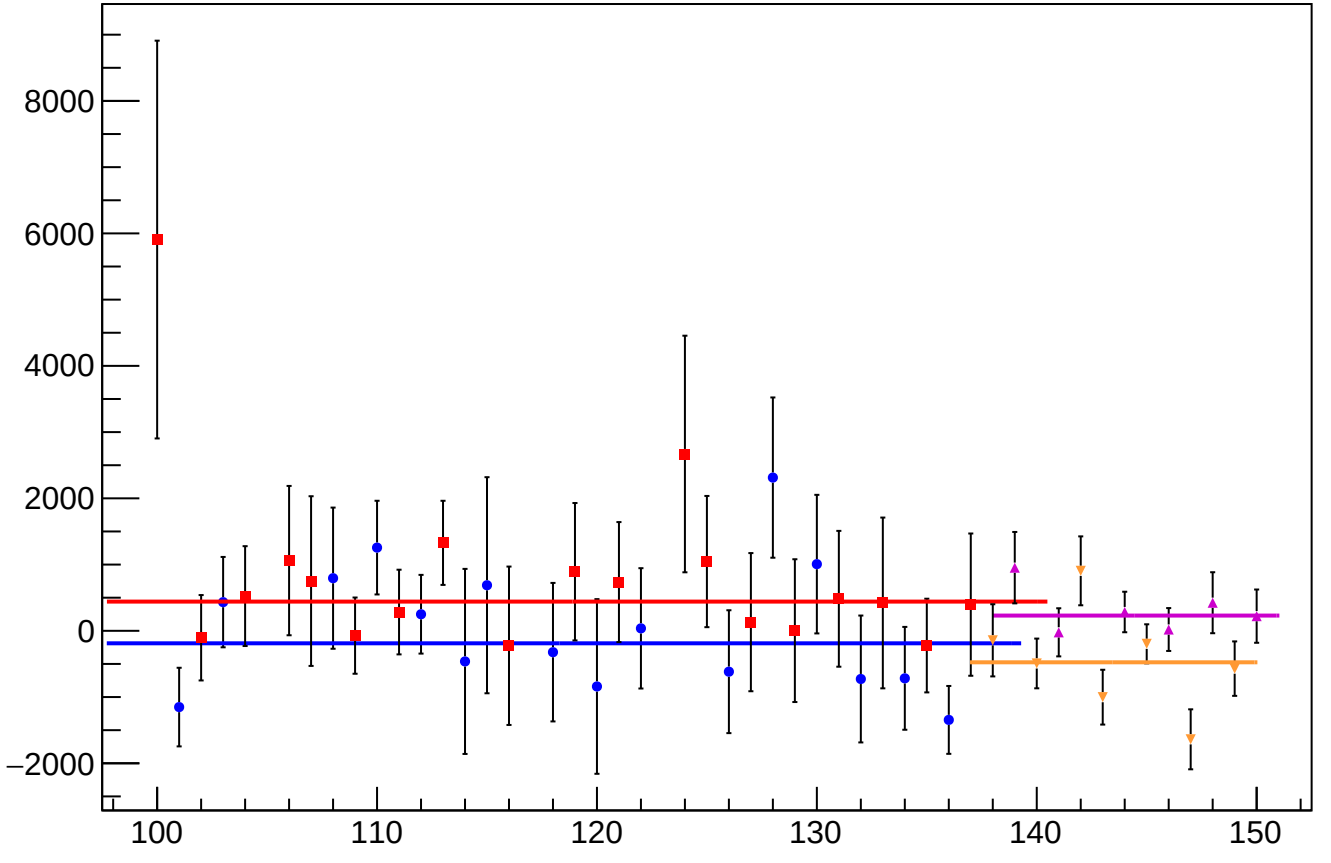
Right: 51.828+/-0.010 $\chi^2$/NDF: 1203588.8/34

In: 50.911+/-0.010 $\chi^2$/NDF:720334.9/21

Out: 50.421+/-0.010 $\chi^2$/NDF:775282.0/25

All: 50.662+/-0.007 $\chi^2$/NDF: 1496738.0/47

asym_sam_1357_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -188.541+/-205.813 $\chi^2$/NDF: 21.4/15

Left Out: -475.344+/-153.747 $\chi^2$/NDF:16.6/6

Right Out: 441.171+/-204.111 $\chi^2$/NDF: 10.9/18

Left In: 230.180+/-153.999 $\chi^2$/NDF:2.9/5

Left: -123.160+/-108.805 $\chi^2$/NDF: 30.0/12

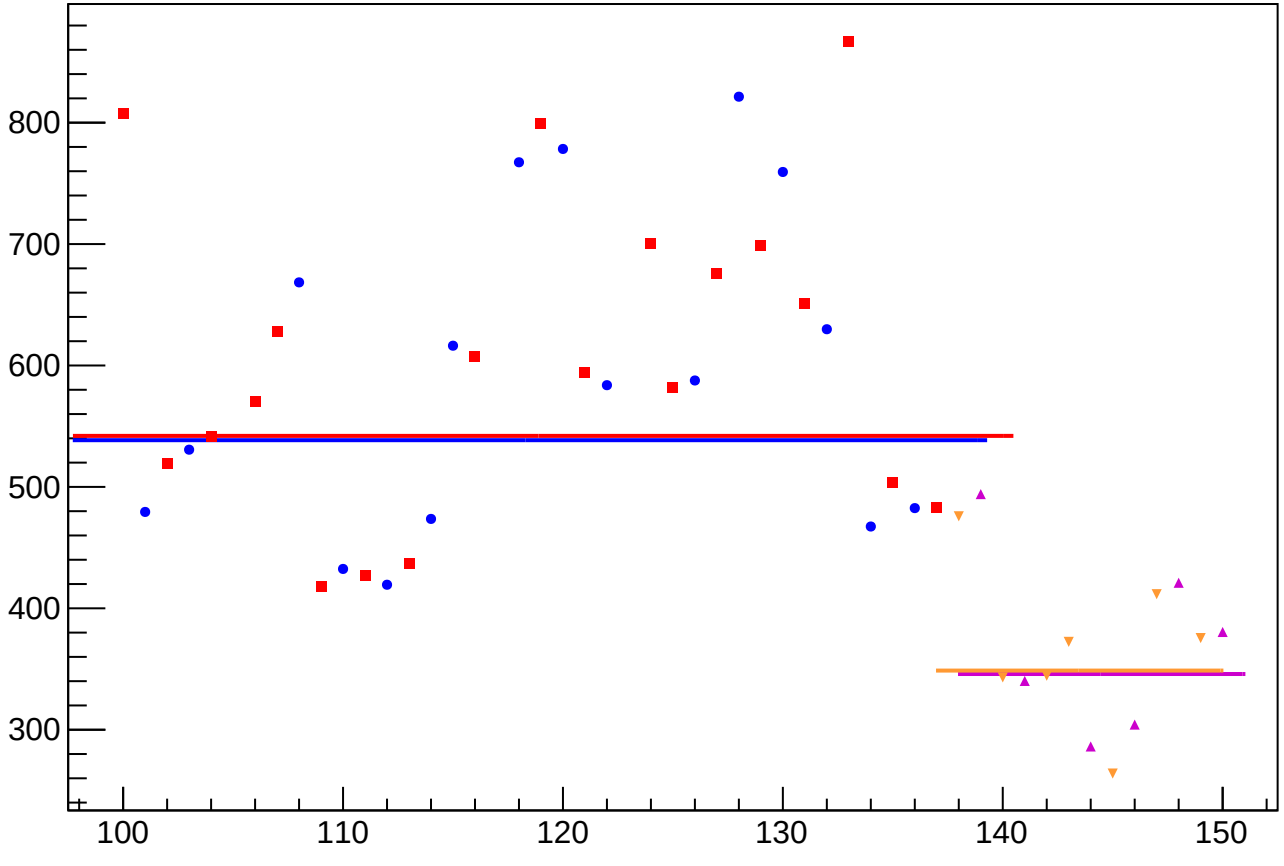
Right: 128.930+/-144.926 $\chi^2$/NDF: 37.0/34

In: 79.891+/-123.303 $\chi^2$/NDF:26.9/21

Out: -143.568+/-122.806 $\chi^2$/NDF:40.3/25

All: -32.290+/-87.012 $\chi^2$/NDF: 68.9/47

asym_sam_1357_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 348.723+/-0.109 $\chi^2$/NDF:328527.4/6

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 345.896+/-0.109 $\chi^2$/NDF:329011.0/5

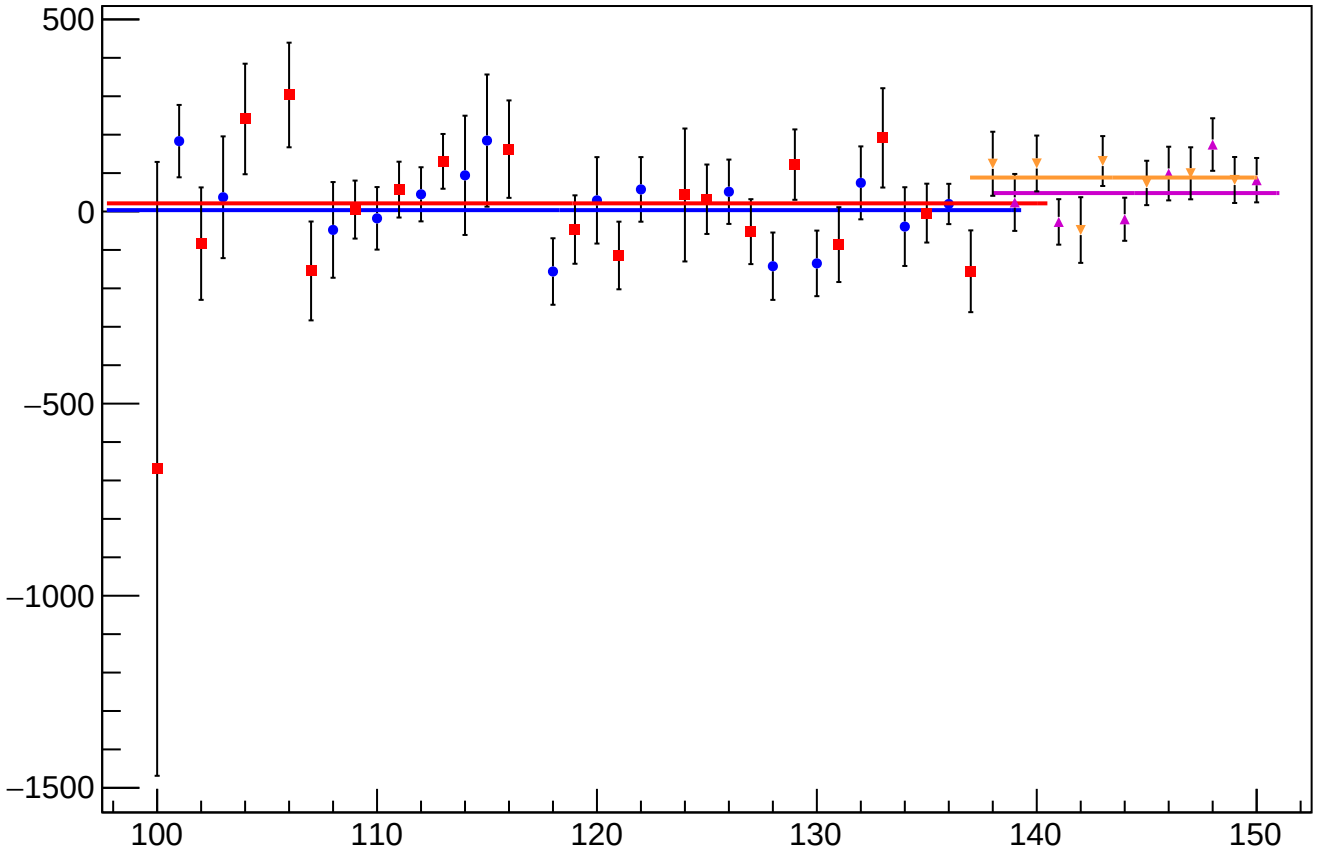
Left: 347.312+/-0.077 $\chi^2$/NDF: 657876.0/12

Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 415.017+/-0.087 $\chi^2$/NDF:2065539.7/21

Out: 418.698+/-0.087 $\chi^2$/NDF:2104525.3/25

All: 416.865+/-0.062 $\chi^2$/NDF: 4170960.1/47




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 88.432+/-25.779 $\chi^2$/NDF:3.5/6

Right Out: 21.253+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: 48.009+/-25.787 $\chi^2$/NDF:7.5/5

Left: 68.226+/-18.231 $\chi^2$/NDF: 12.2/12

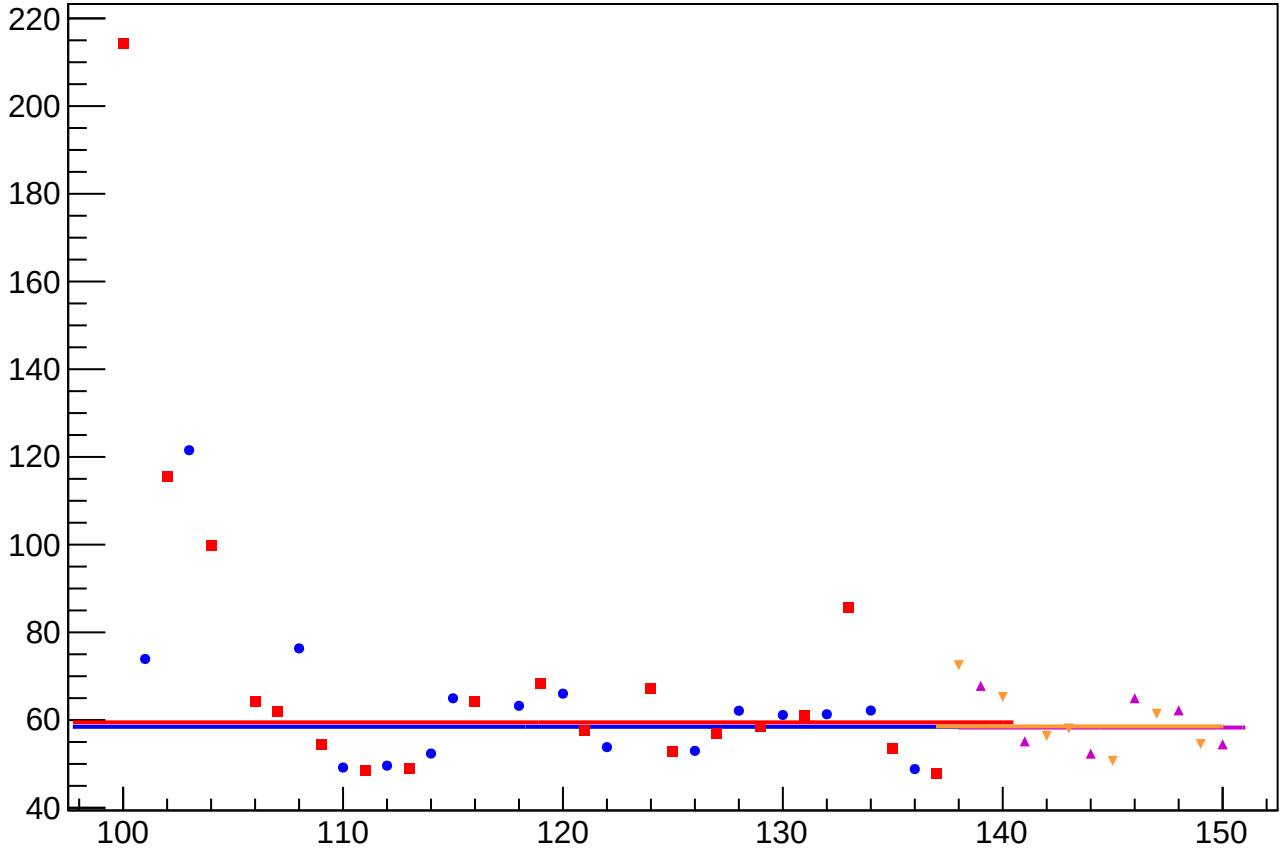
Right: 12.313+/-15.997 $\chi^2$/NDF: 40.9/34

In: 22.774+/-16.945 $\chi^2$/NDF:25.3/21

Out: 50.693+/-17.065 $\chi^2$/NDF:31.8/25

All: 36.635+/-12.024 $\chi^2$/NDF: 58.4/47

# dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 58.465+/-0.016 $\chi^2$/NDF: 582984.2/15

Left Out: 58.566+/-0.018 $\chi^2$/NDF:124098.7/6

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.1/18

Left In: 58.301+/-0.018 $\chi^2$/NDF:94763.6/5

Left: 58.434+/-0.013 $\chi^2$/NDF: 218968.3/12

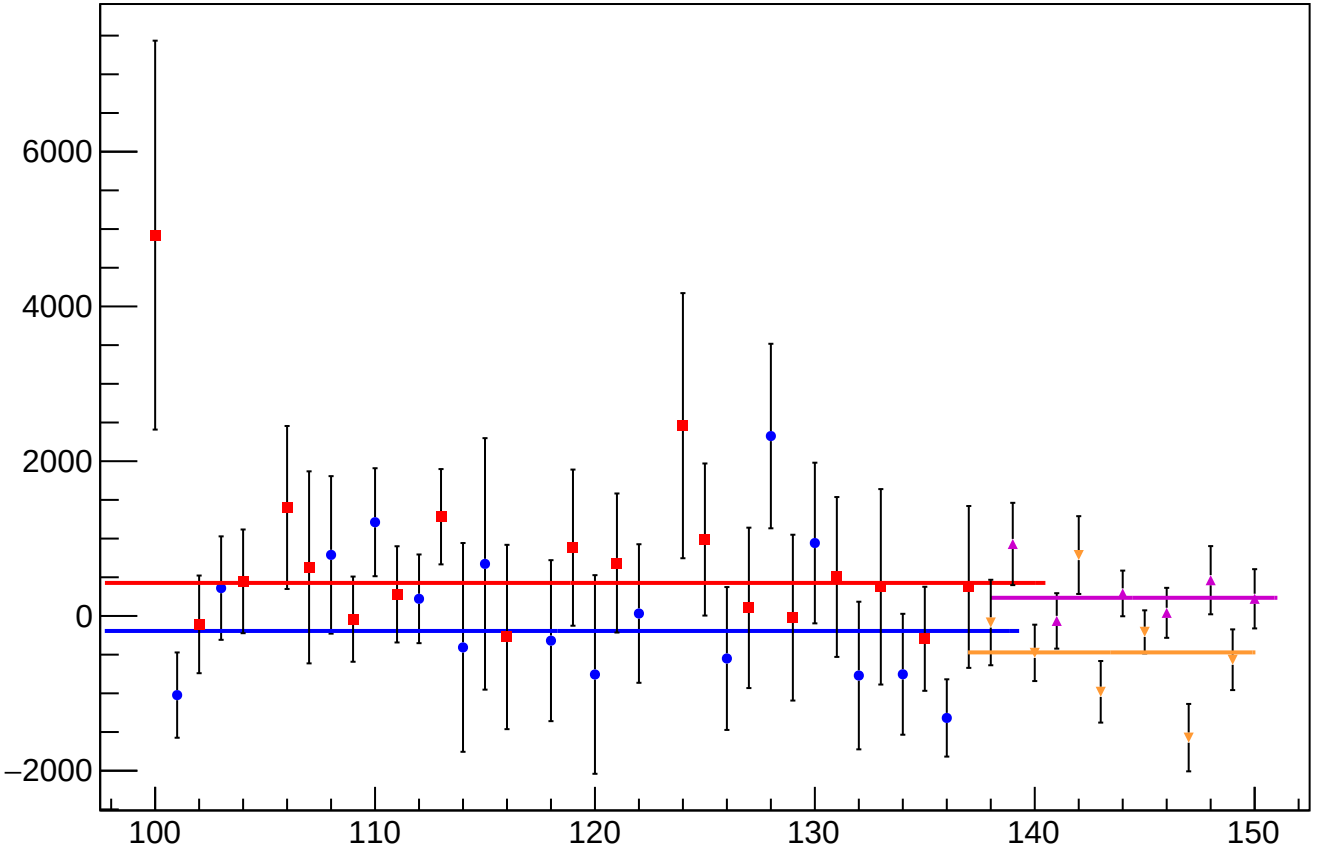
Right: 58.968+/-0.011 $\chi^2$/NDF: 1369891.4/34

In: 58.394+/-0.012 $\chi^2$/NDF:677794.0/21

Out: 59.082+/-0.012 $\chi^2$/NDF:910402.4/25

All: 58.736+/-0.009 $\chi^2$/NDF: 1589830.9/47

asym_sam_1357_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -193.899+/-200.604 $\chi^2$/NDF: 20.8/15

Left Out: -470.992+/-147.780 $\chi^2$/NDF:15.8/6

Right Out: 426.977+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 234.683+/-150.126 $\chi^2$/NDF:3.1/5

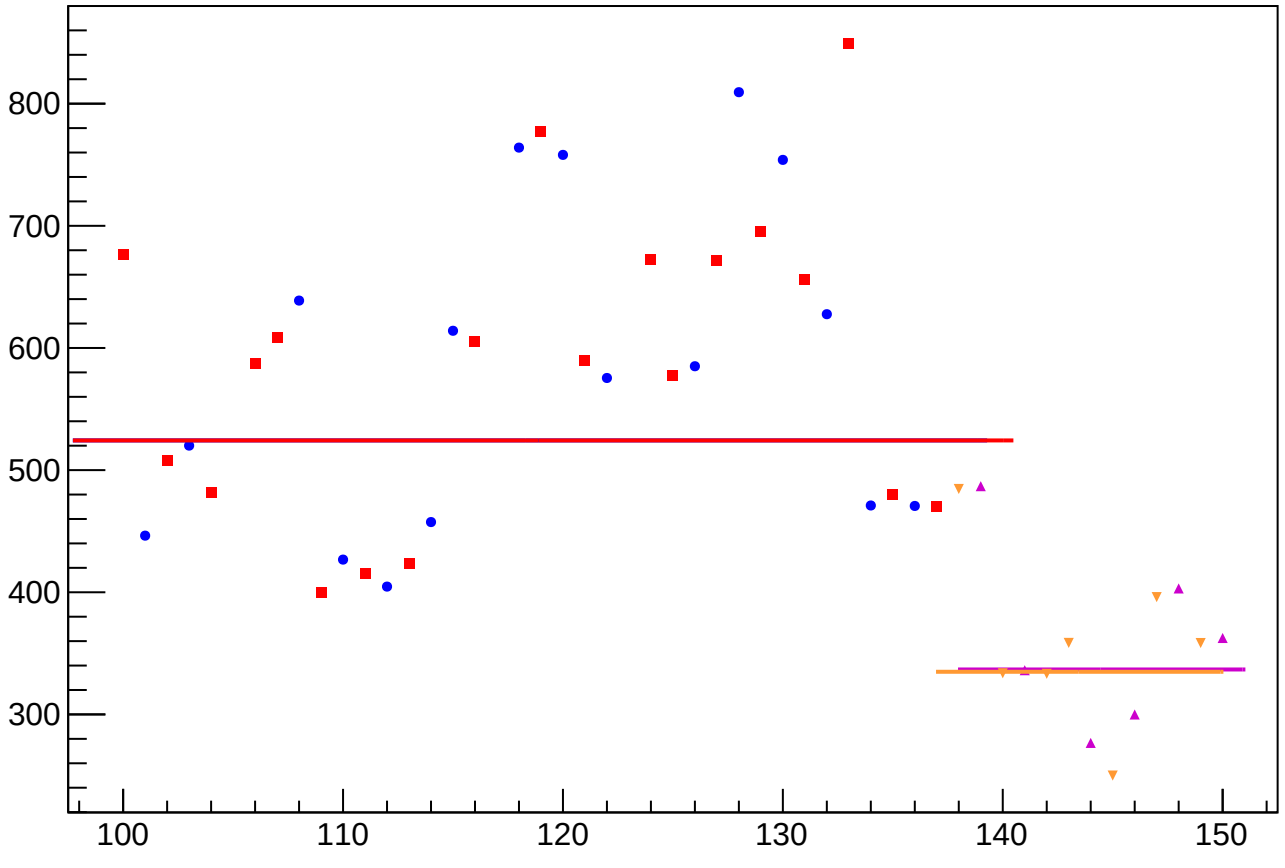
Left: -123.713+/-105.316 $\chi^2$/NDF: 30.1/12

Right: 122.158+/-140.559 $\chi^2$/NDF: 37.0/34

In: 80.822+/-120.195 $\chi^2$/NDF:26.8/21

Out: -147.651+/-118.216 $\chi^2$/NDF:40.4/25

All: -35.310+/-84.282 $\chi^2$/NDF: 69.0/47




Right In: 524.326+/-0.142 $\chi^2$/NDF: 658488.5/15

Left Out: 334.916+/-0.104 $\chi^2$/NDF:387254.3/6

Right Out: 524.306+/-0.139 $\chi^2$/NDF: 686061.2/18

Left In: 336.793+/-0.106 $\chi^2$/NDF:322714.6/5

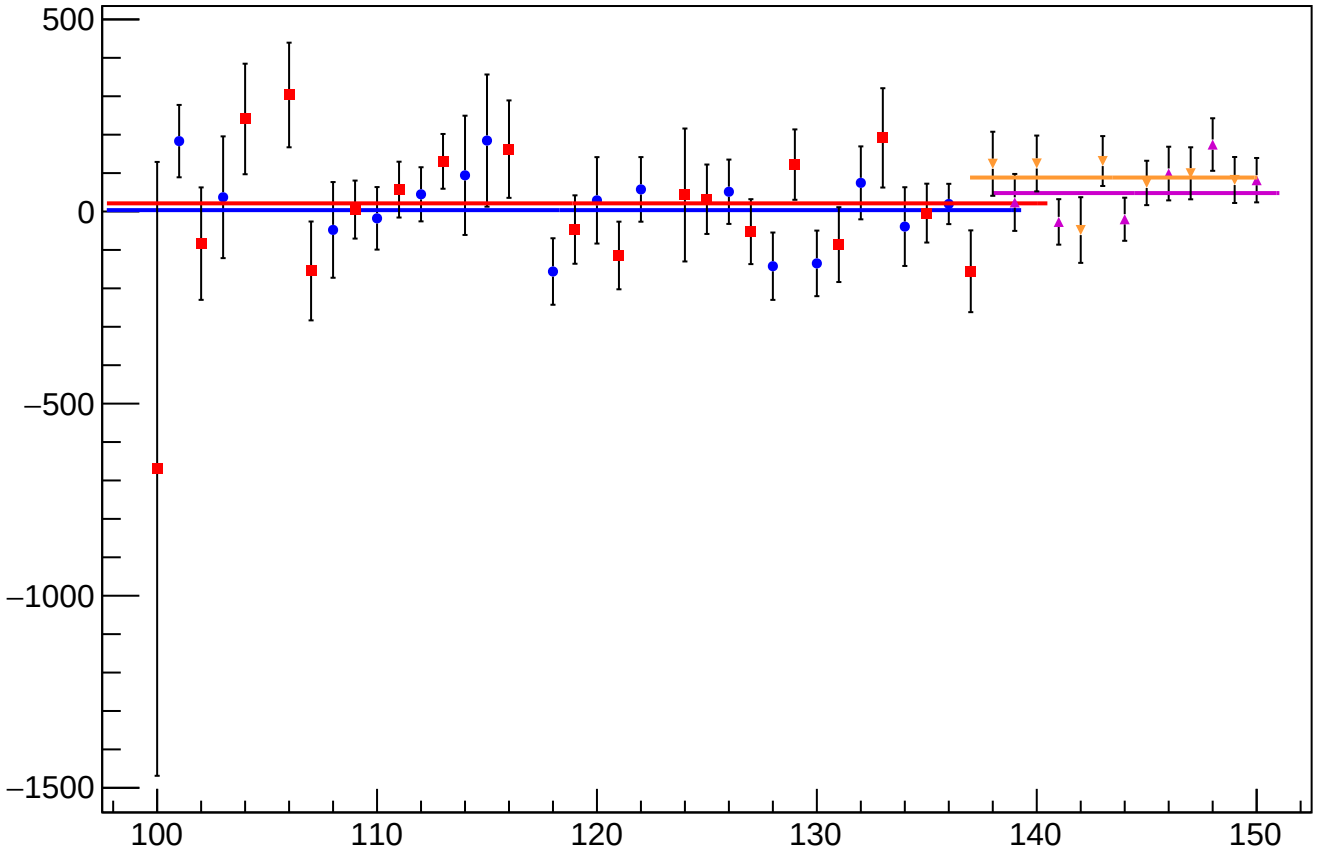
Left: 335.840+/-0.074 $\chi^2$/NDF: 710127.8/12

Right: 524.316+/-0.099 $\chi^2$/NDF: 1344549.7/34

In: 404.118+/-0.085 $\chi^2$/NDF:2101585.7/21

Out: 403.112+/-0.084 $\chi^2$/NDF:2256135.2/25

All: 403.606+/-0.060 $\chi^2$/NDF: 4357792.1/47




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 88.431+/-25.779 $\chi^2$/NDF:3.5/6

Right Out: 21.251+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: 48.009+/-25.787 $\chi^2$/NDF:7.5/5

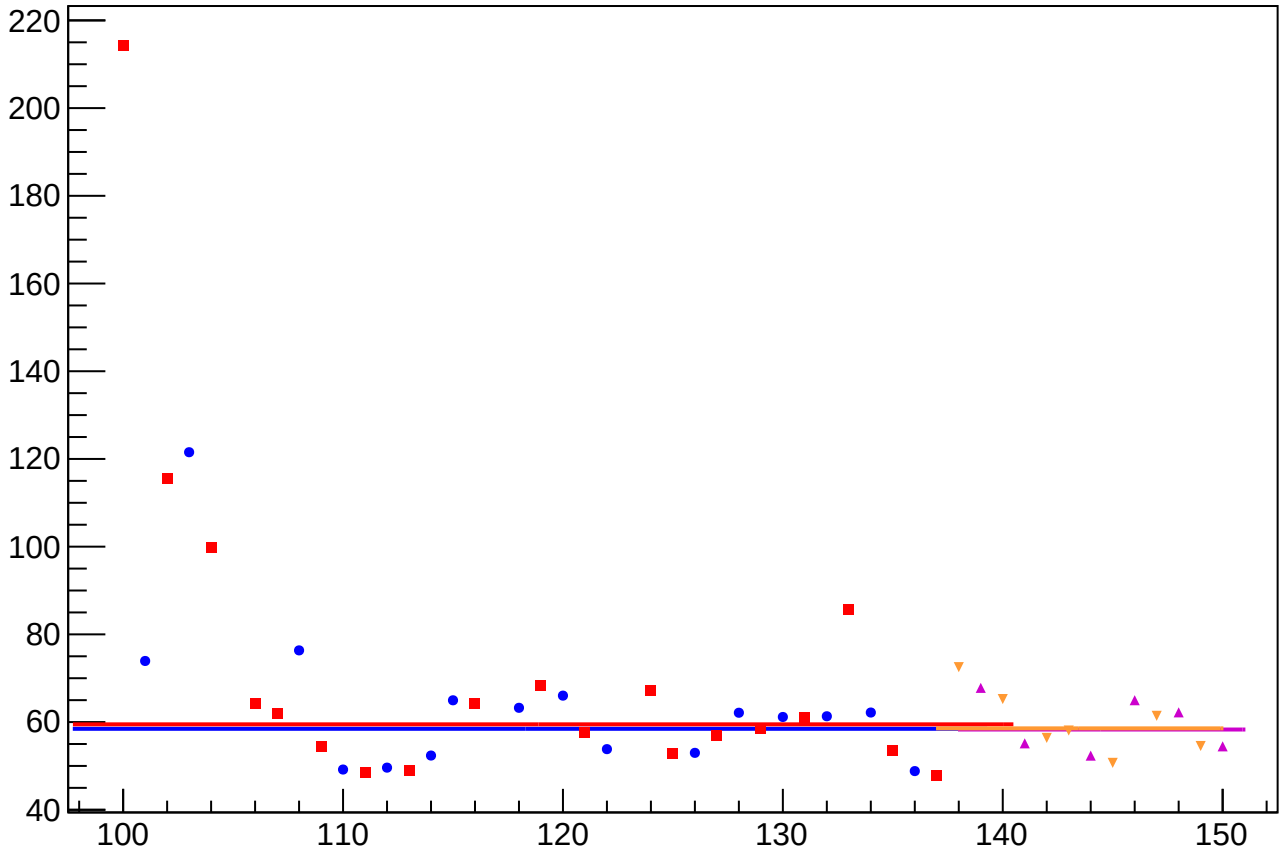
Left: 68.226+/-18.231 $\chi^2$/NDF: 12.2/12

Right: 12.312+/-15.997 $\chi^2$/NDF: 40.9/34

In: 22.774+/-16.945 $\chi^2$/NDF:25.3/21

Out: 50.692+/-17.065 $\chi^2$/NDF:31.8/25

All: 36.634+/-12.024 $\chi^2$/NDF: 58.4/47




Right In: 58.466+/-0.016 $\chi^2$/NDF: 582980.6/15

Left Out: 58.567+/-0.018 $\chi^2$/NDF:124098.6/6

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.2/18

Left In: 58.301+/-0.018 $\chi^2$/NDF:94762.4/5

Left: 58.434+/-0.013 $\chi^2$/NDF: 218967.0/12

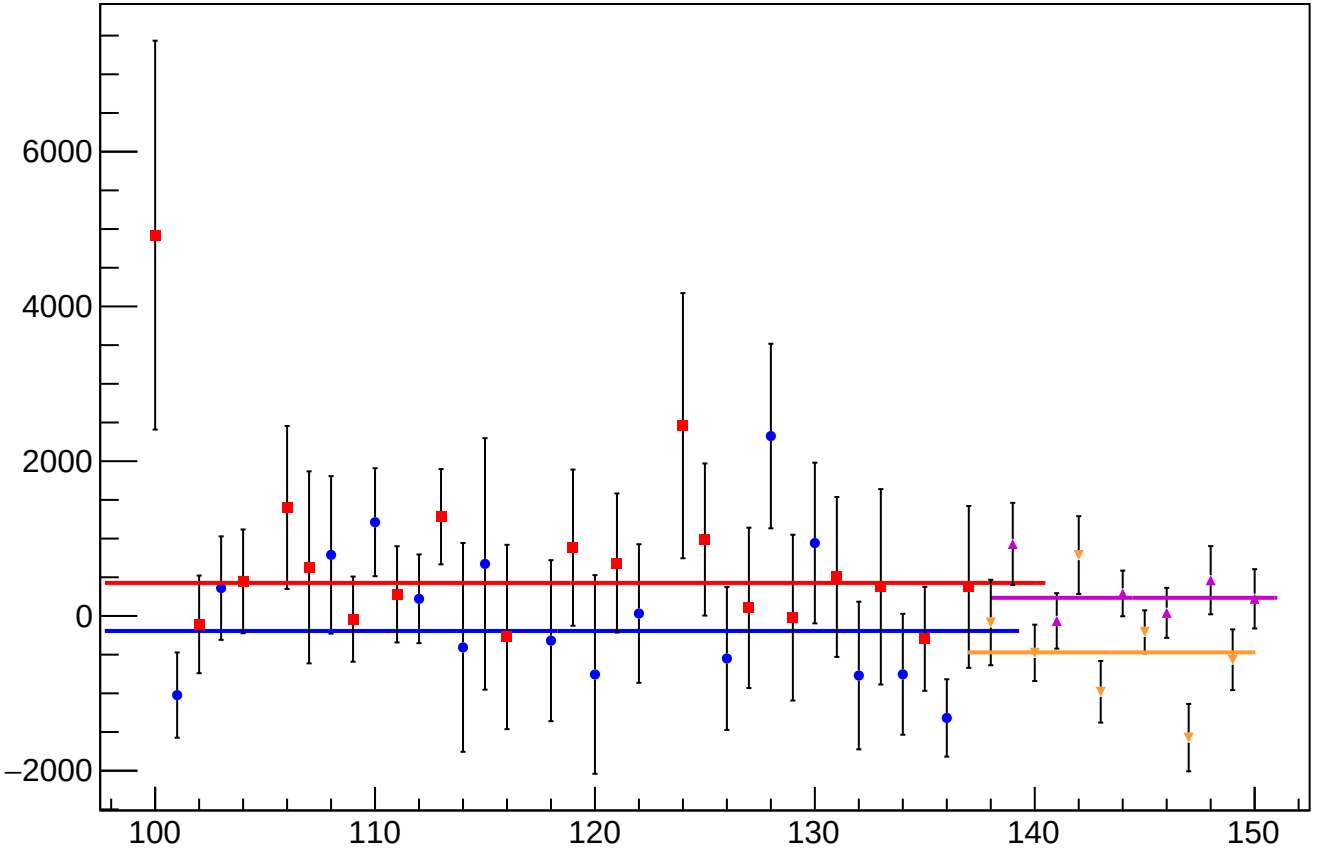
Right: 58.968+/-0.011 $\chi^2$/NDF: 1369888.0/34

In: 58.395+/-0.012 $\chi^2$/NDF:677789.2/21

Out: 59.082+/-0.012 $\chi^2$/NDF:910402.0/25

All: 58.736+/-0.009 $\chi^2$/NDF: 1589825.8/47

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -193.899+/-200.603 $\chi^2$/NDF: 20.8/15

Left Out: -470.993+/-147.779 $\chi^2$/NDF:15.8/6

Right Out: 426.976+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 234.683+/-150.126 $\chi^2$/NDF:3.1/5

Left: -123.714+/-105.316 $\chi^2$/NDF: 30.1/12

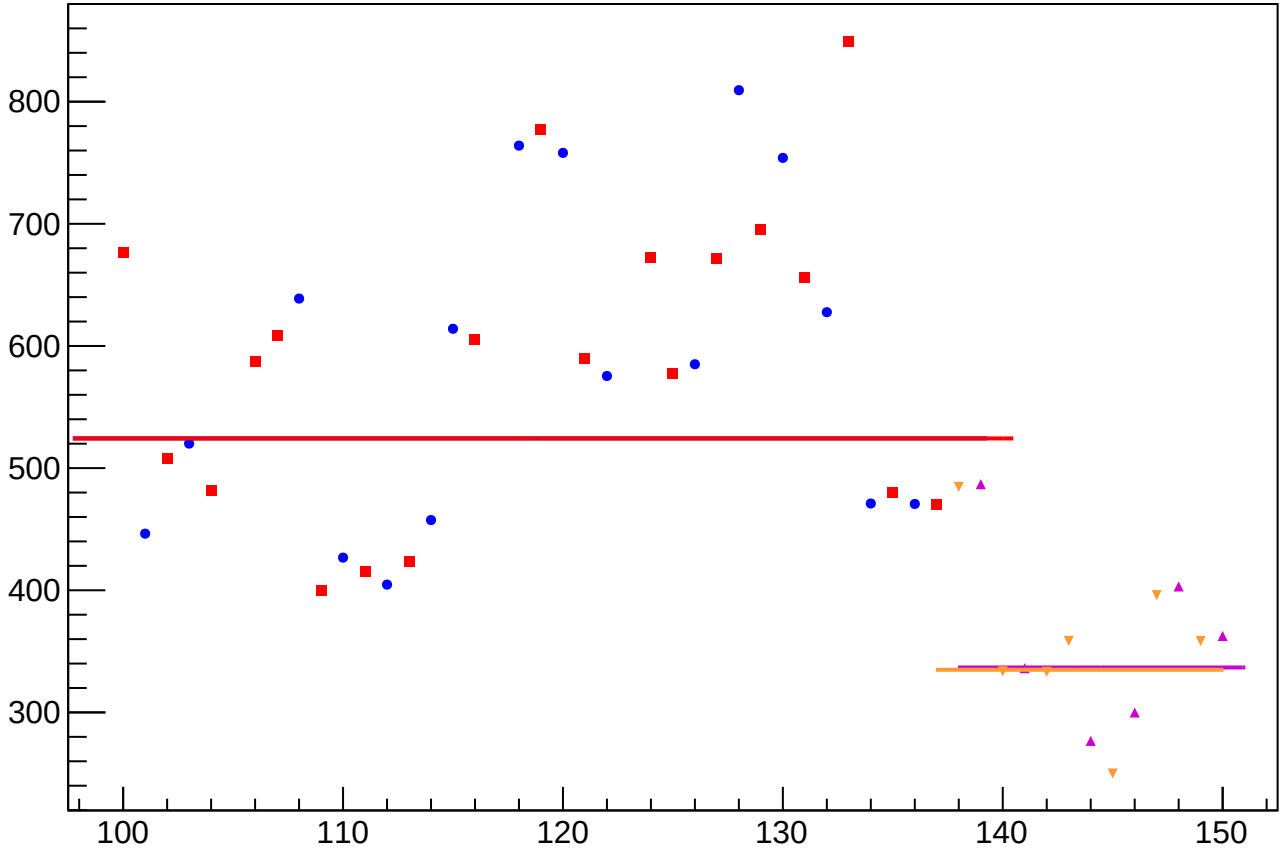
Right: 122.157+/-140.558 $\chi^2$/NDF: 37.0/34

In: 80.822+/-120.195 $\chi^2$/NDF:26.8/21

Out: -147.651+/-118.216 $\chi^2$/NDF:40.4/25

All: -35.311+/-84.282 $\chi^2$/NDF: 69.0/47

asym_sam_1357_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 524.325+/-0.142 $\chi^2$/NDF: 658493.8/15

Left Out: 334.916+/-0.104 $\chi^2$/NDF:387255.7/6

Right Out: 524.305+/-0.139 $\chi^2$/NDF: 686063.6/18

Left In: 336.793+/-0.106 $\chi^2$/NDF:322716.1/5

Left: 335.840+/-0.074 $\chi^2$/NDF: 710130.7/12

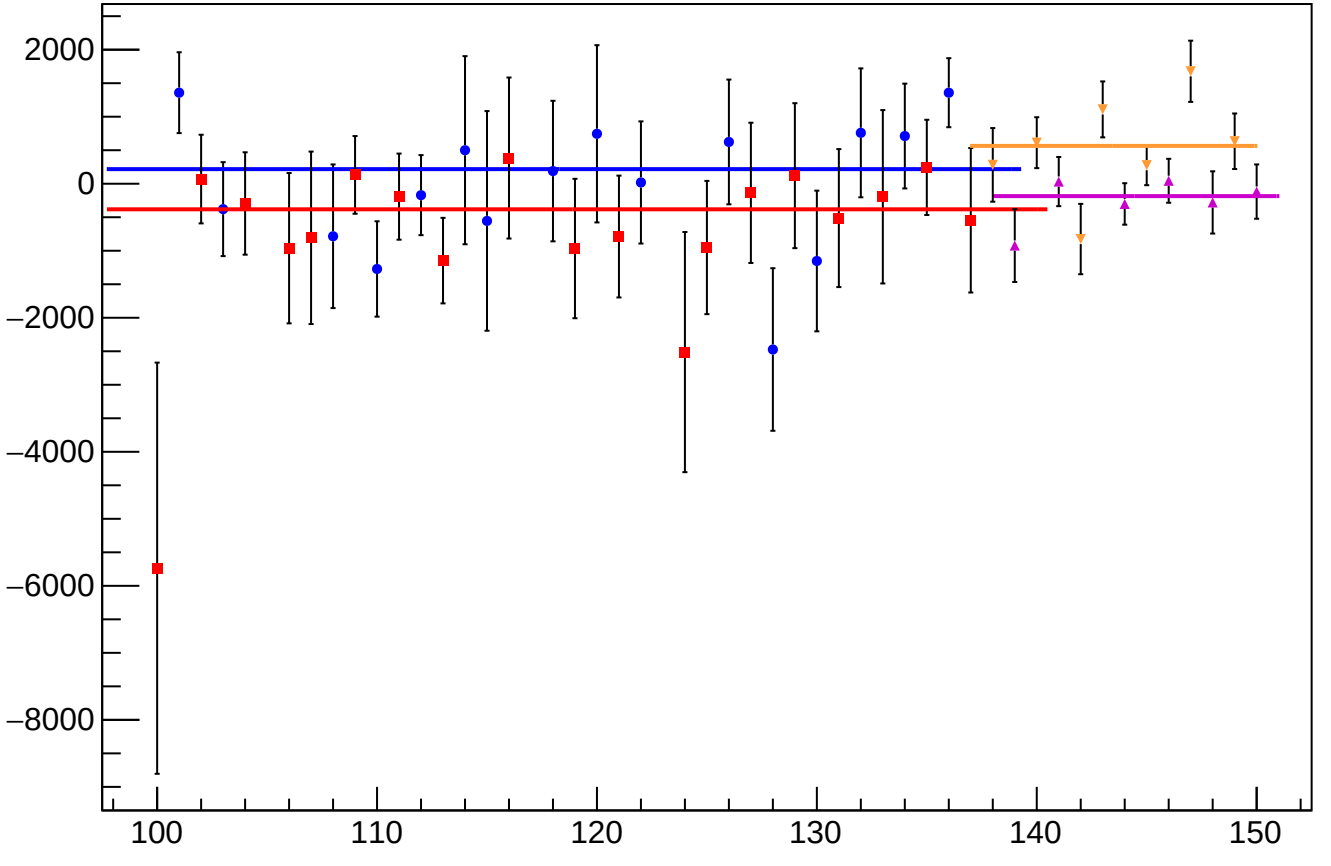
Right: 524.315+/-0.099 $\chi^2$/NDF: 1344557.5/34

In: 404.117+/-0.085 $\chi^2$/NDF:2101582.2/21

Out: 403.111+/-0.084 $\chi^2$/NDF:2256129.7/25

All: 403.606+/-0.060 $\chi^2$/NDF: 4357783.1/47

# asym_sam_1357_avg_mean vs Slug, Sign Corrected




Right In: 217.756+/-207.492 $\chi^2$/NDF: 22.9/15

Left Out: 564.415+/-155.337 $\chi^2$/NDF:15.9/6

Right Out: -381.836+/-205.585 $\chi^2$/NDF: 10.0/18

Left In: -184.888+/-155.640 $\chi^2$/NDF:2.9/5

Left: 190.496+/-109.947 $\chi^2$/NDF: 30.4/12

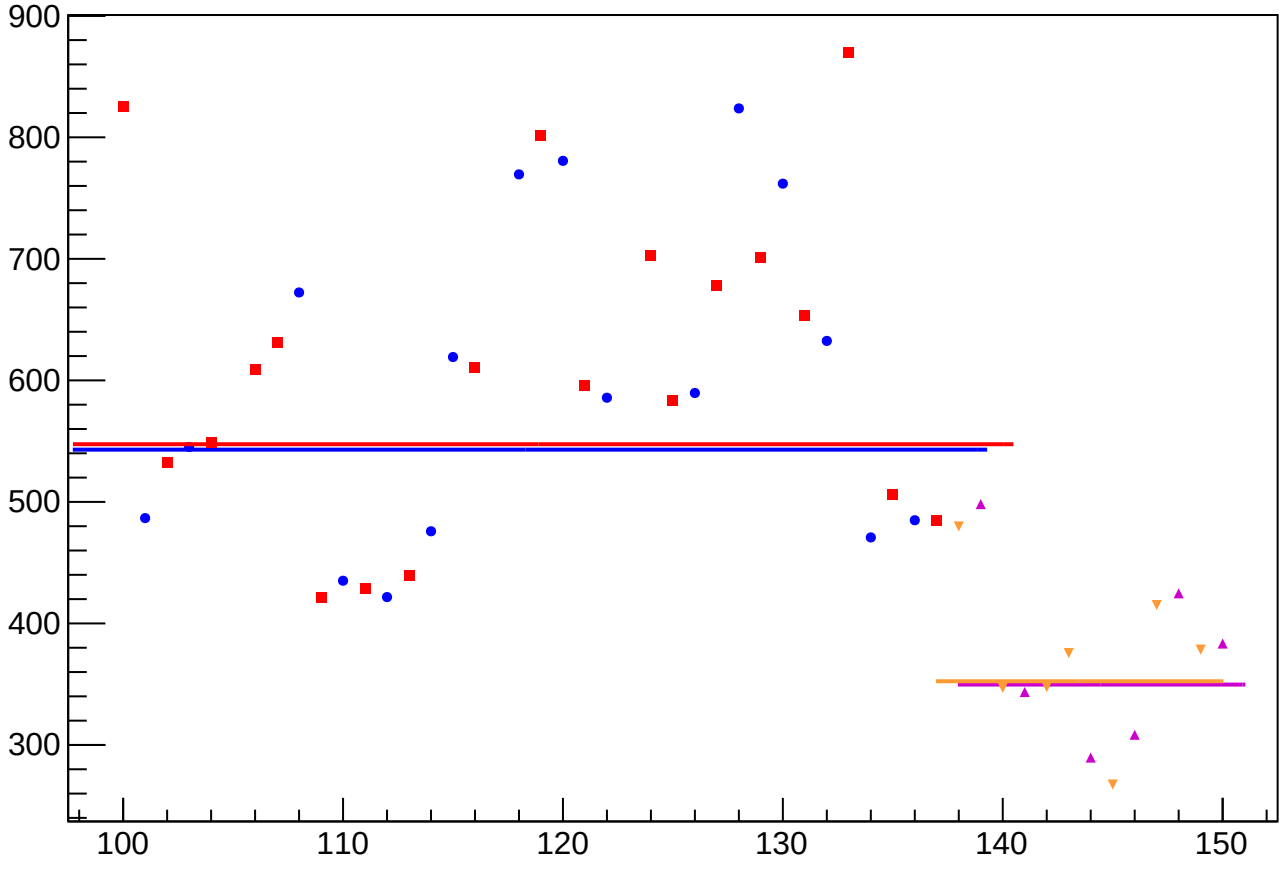
Right: -84.807+/-146.040 $\chi^2$/NDF: 37.1/34

In: -39.910+/-124.506 $\chi^2$/NDF:28.2/21

Out: 220.525+/-123.936 $\chi^2$/NDF:39.4/25

All: 90.904+/-87.837 $\chi^2$/NDF: 69.8/47

# asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 542.997+/-0.147 $\chi^2$/NDF: 605250.7/15

Left Out: 352.430+/-0.110 $\chi^2$/NDF:321655.6/6

Right Out: 547.465+/-0.145 $\chi^2$/NDF: 630284.0/18

Left In: 349.705+/-0.110 $\chi^2$/NDF:323039.0/5

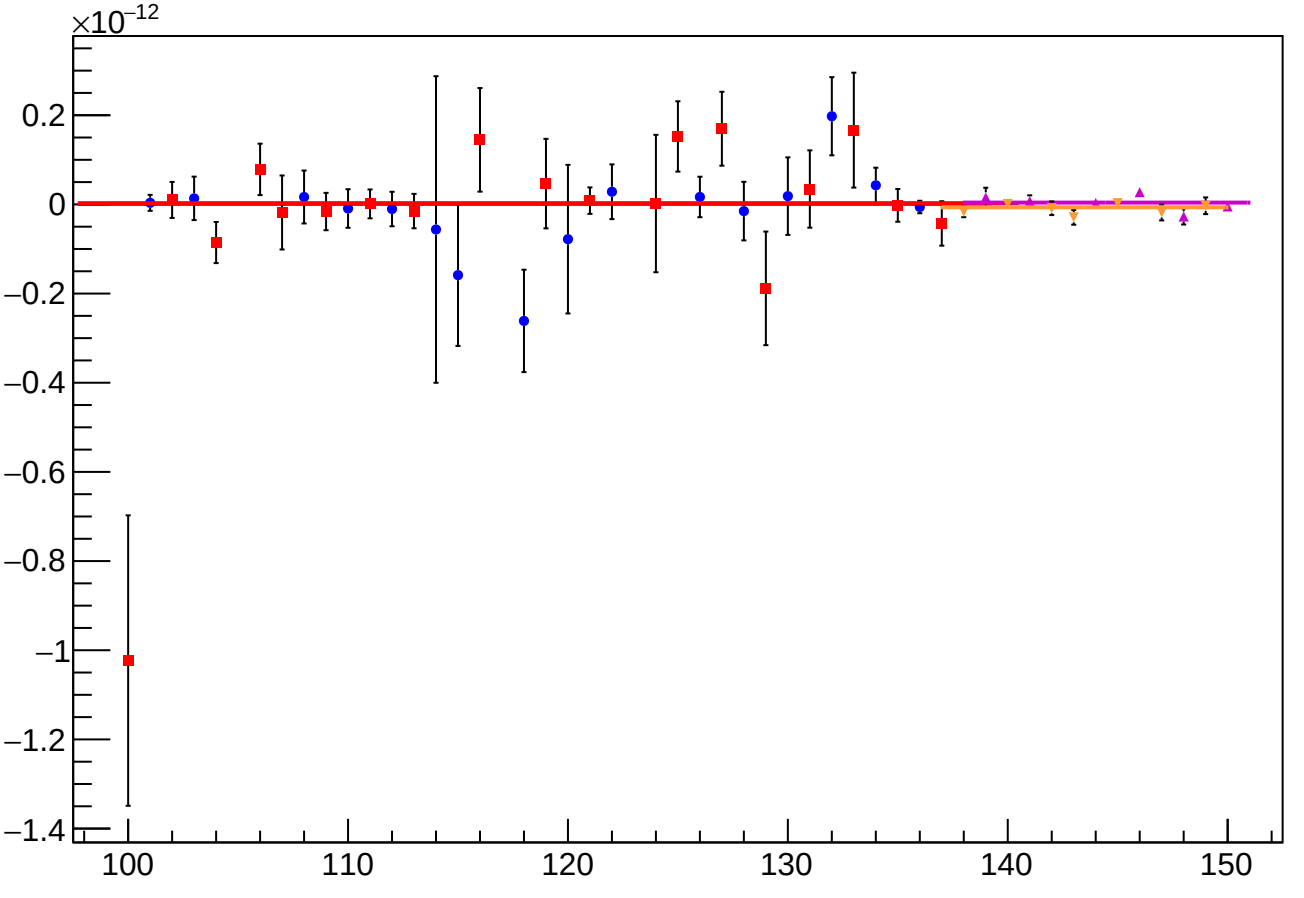
Left: 351.070+/-0.078 $\chi^2$/NDF: 645001.8/12

Right: 545.252+/-0.103 $\chi^2$/NDF: 1236002.5/34

In: 419.303+/-0.088 $\chi^2$/NDF:2038979.0/21

Out: 423.310+/-0.088 $\chi^2$/NDF:2097768.4/25

All: 421.316+/-0.062 $\chi^2$/NDF: 4137788.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:8.8/5

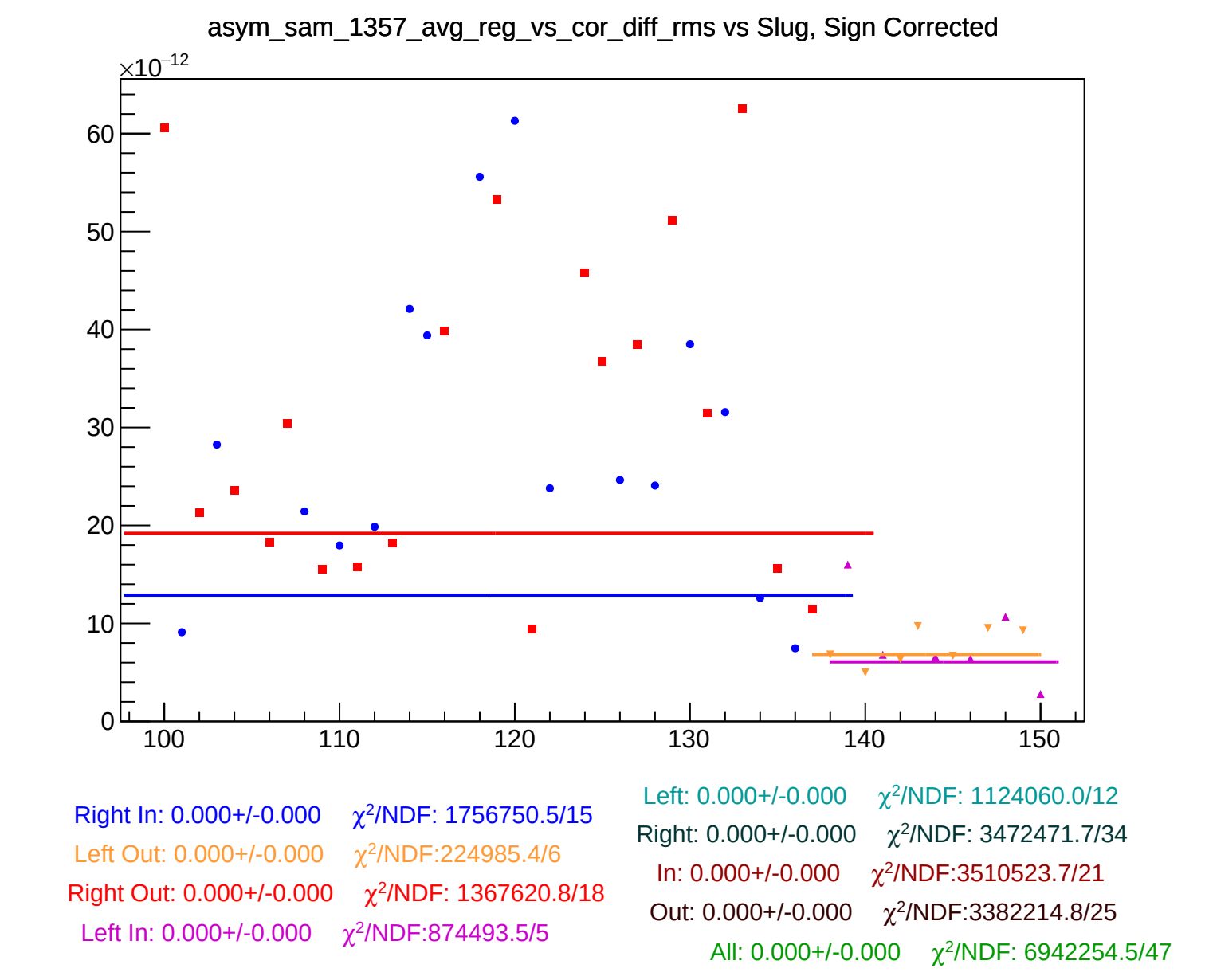
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.6/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 43.7/34

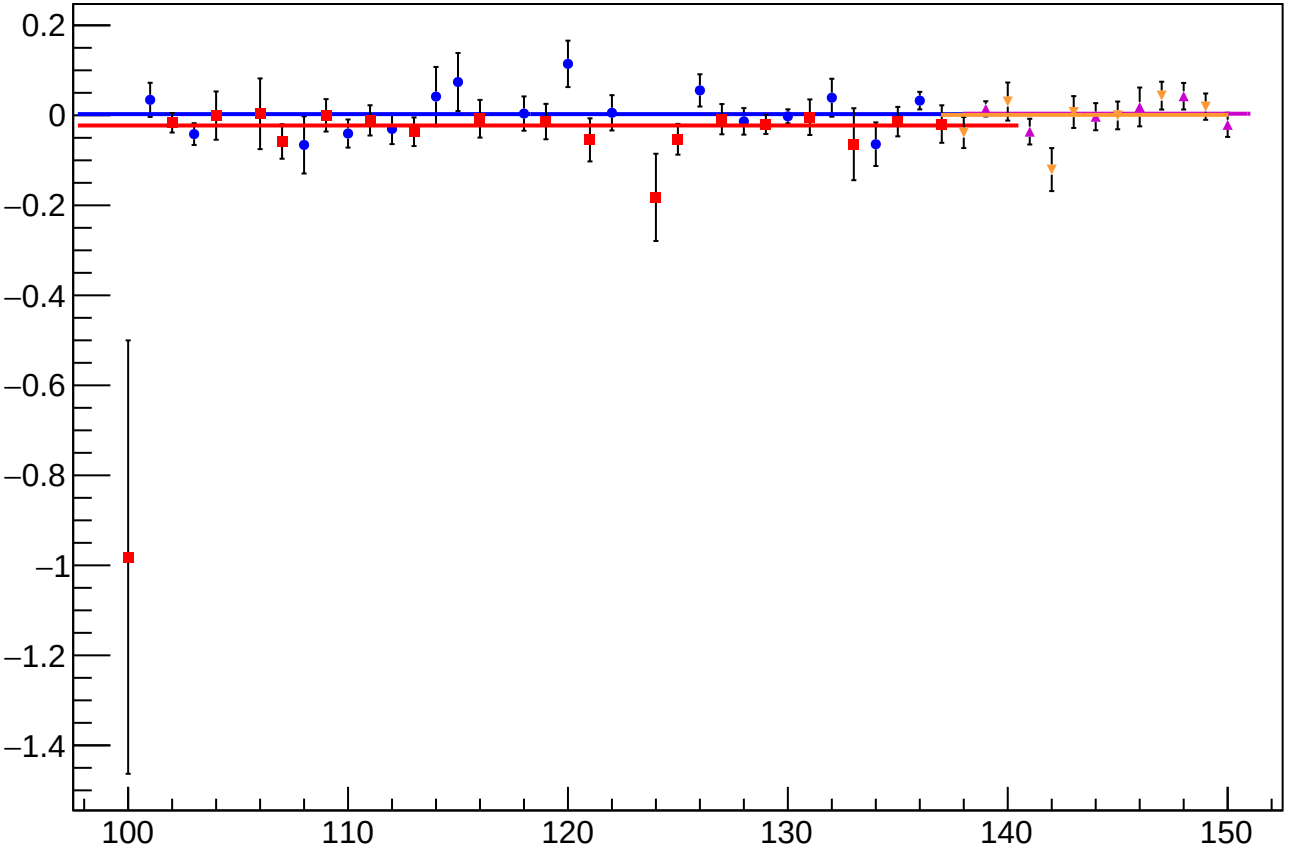
In: 0.000+/-0.000 $\chi^2$/NDF:22.4/21

Out: -0.000+/-0.000 $\chi^2$/NDF:35.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 59.4/47


asym_sam_1357_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1756750.5/15
Left Out: 0.000+/-0.000 χ²/NDF:224985.4/6
Right Out: 0.000+/-0.000 χ²/NDF: 1367620.8/18
Left In: 0.000+/-0.000 χ²/NDF:874493.5/5
Left: 0.000+/-0.000 χ²/NDF: 1124060.0/12
Right: 0.000+/-0.000 χ²/NDF: 3472471.7/34
In: 0.000+/-0.000 χ²/NDF:3510523.7/21
Out: 0.000+/-0.000 χ²/NDF:3382214.8/25
All: 0.000+/-0.000 χ²/NDF: 6942254.5/47

asym_sam_1357_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:10.6/6

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.004+/-0.011 $\chi^2$/NDF:5.1/5

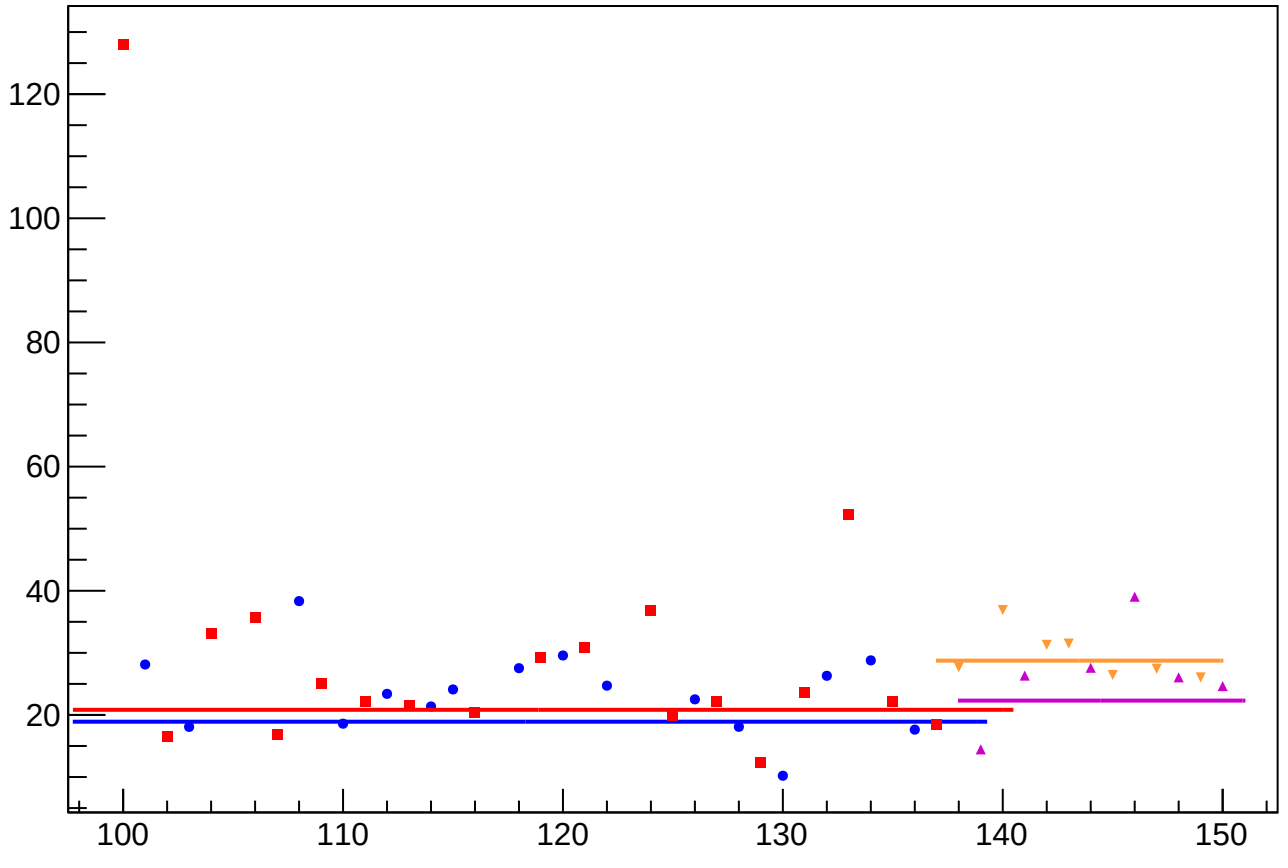
Left: 0.003+/-0.008 $\chi^2$/NDF: 15.7/12

Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.003+/-0.006 $\chi^2$/NDF:27.0/21

Out: -0.016+/-0.007 $\chi^2$/NDF:23.7/25

All: -0.005+/-0.005 $\chi^2$/NDF: 54.6/47




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 28.745+/-0.009 $\chi^2$/NDF:125633.1/6

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 22.310+/-0.008 $\chi^2$/NDF:879214.2/5

Left: 24.880+/-0.006 $\chi^2$/NDF: 1298527.0/12

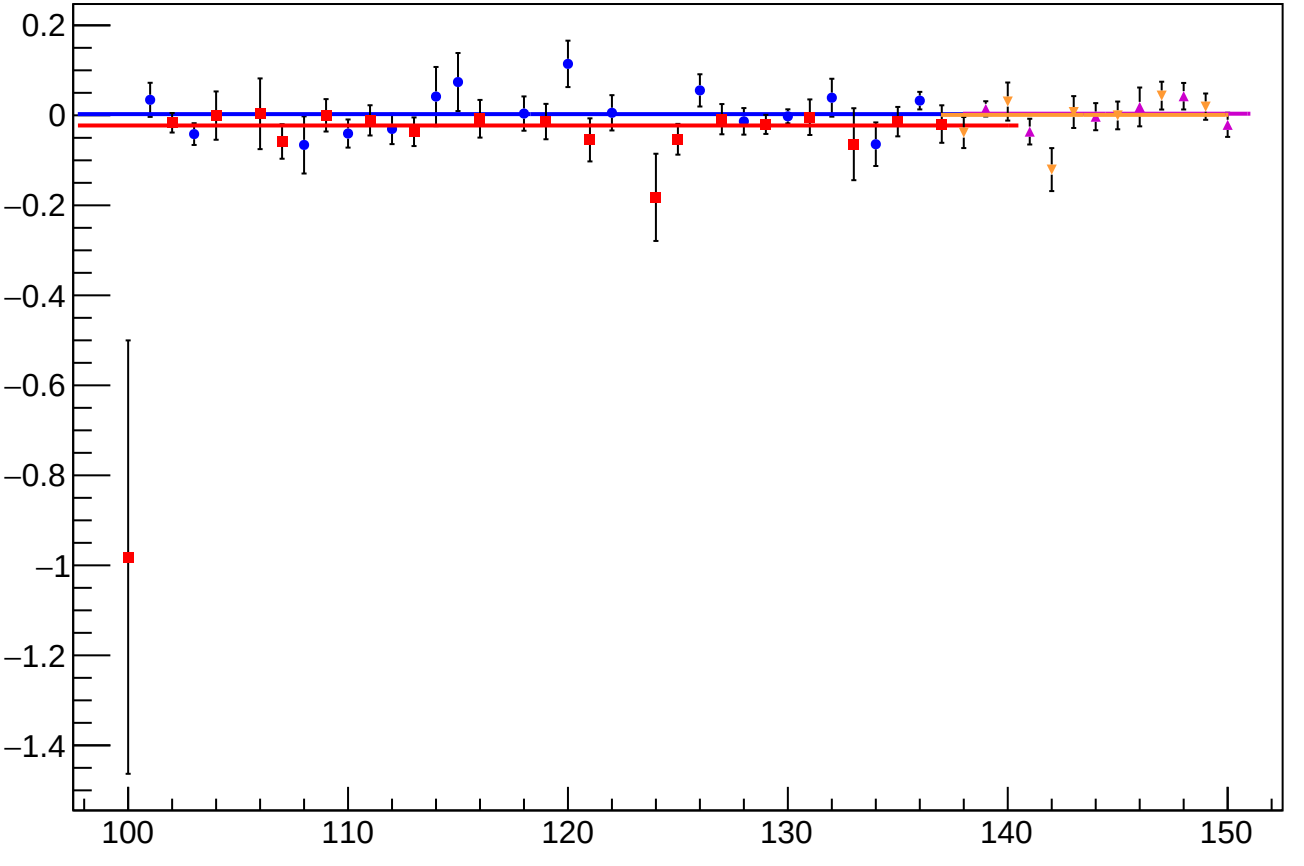
Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 20.104+/-0.004 $\chi^2$/NDF:2402713.6/21

Out: 23.175+/-0.005 $\chi^2$/NDF:1938093.3/25

All: 21.457+/-0.003 $\chi^2$/NDF: 4550858.0/47

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:10.6/6

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.004+/-0.011 $\chi^2$/NDF:5.1/5

Left: 0.003+/-0.008 $\chi^2$/NDF: 15.7/12

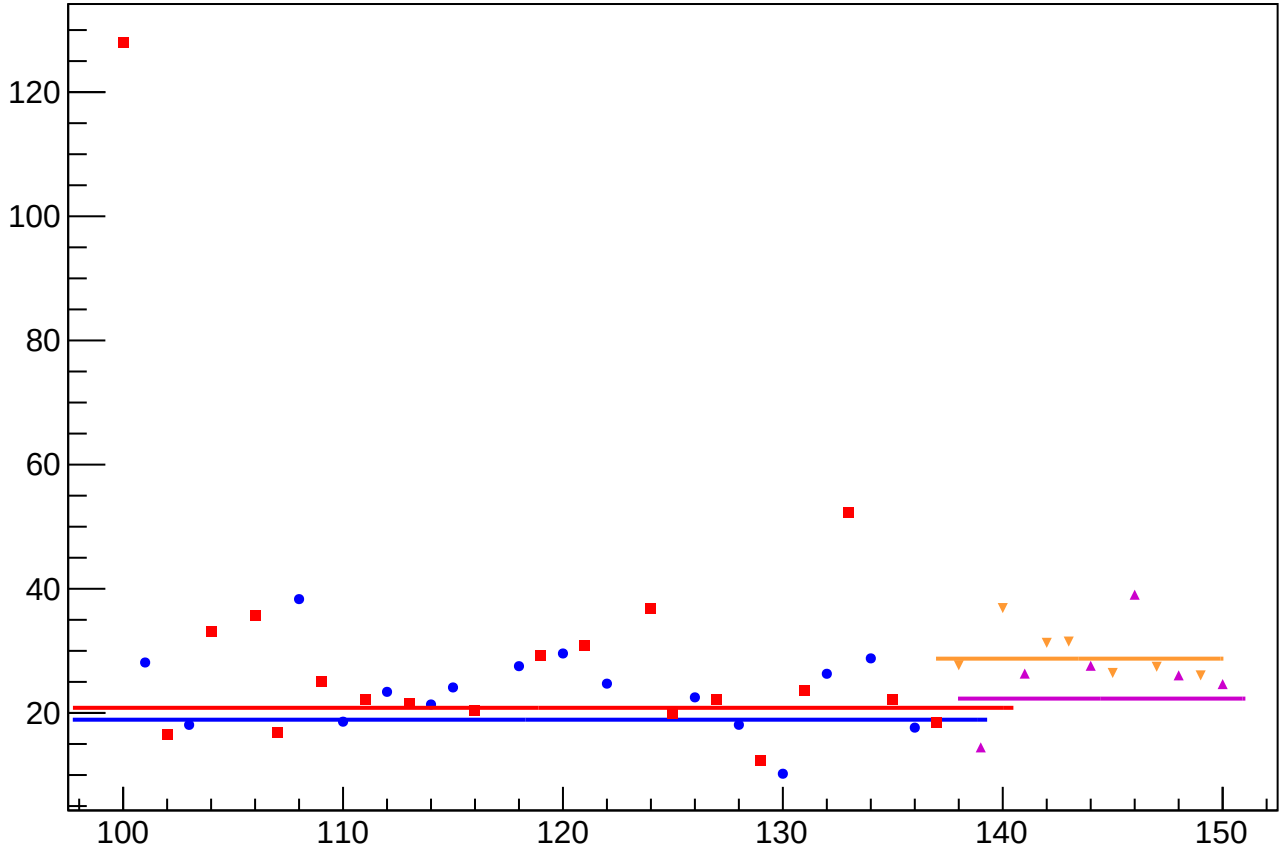
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.003+/-0.006 $\chi^2$/NDF:27.0/21

Out: -0.016+/-0.007 $\chi^2$/NDF:23.7/25

All: -0.005+/-0.005 $\chi^2$/NDF: 54.6/47

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 28.745+/-0.009 $\chi^2$/NDF:125633.1/6

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 22.310+/-0.008 $\chi^2$/NDF:879214.2/5

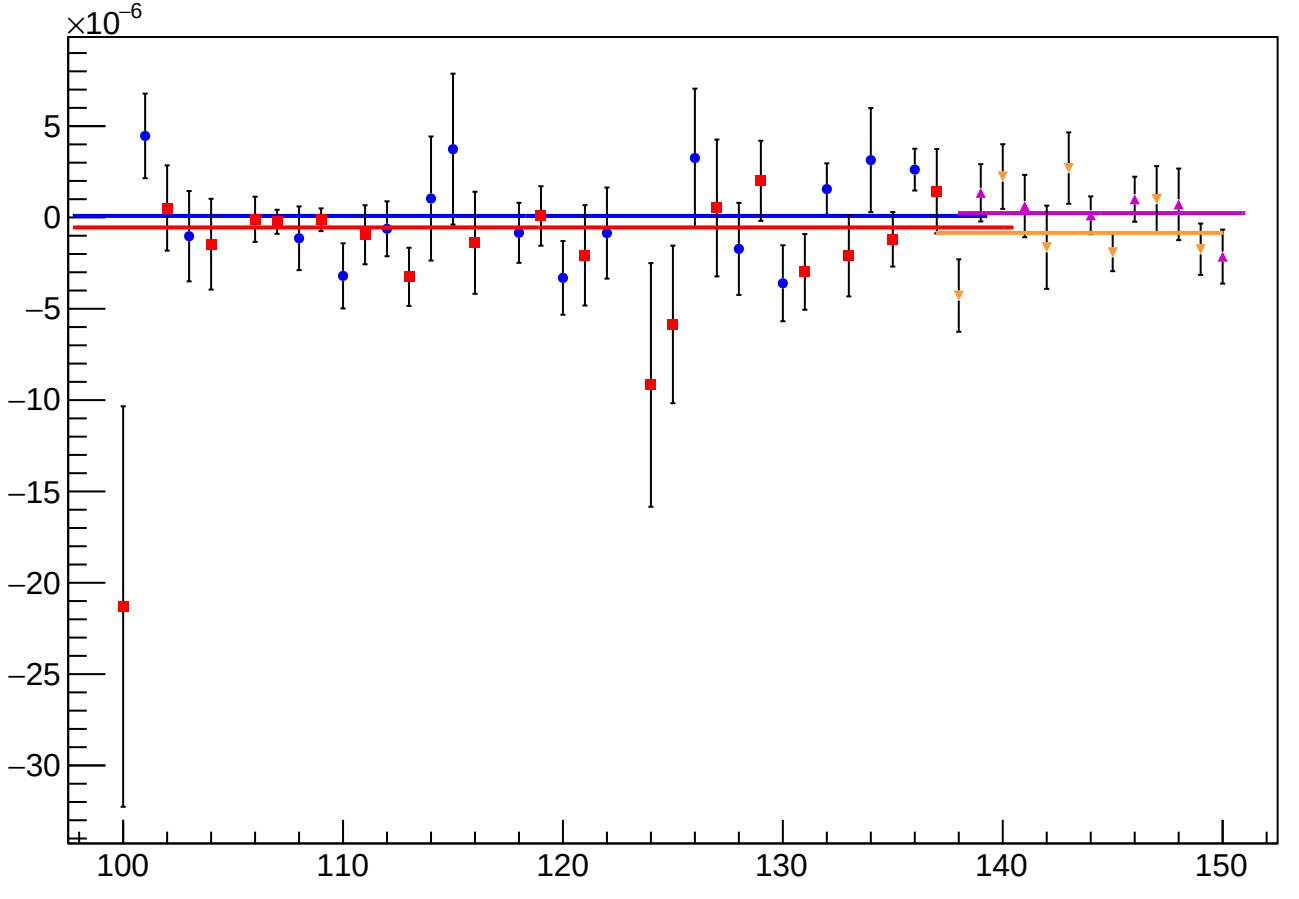
Left: 24.880+/-0.006 $\chi^2$/NDF: 1298527.0/12

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 20.104+/-0.004 $\chi^2$/NDF:2402713.6/21

Out: 23.175+/-0.005 $\chi^2$/NDF:1938093.3/25

All: 21.457+/-0.003 $\chi^2$/NDF: 4550858.0/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.6/5

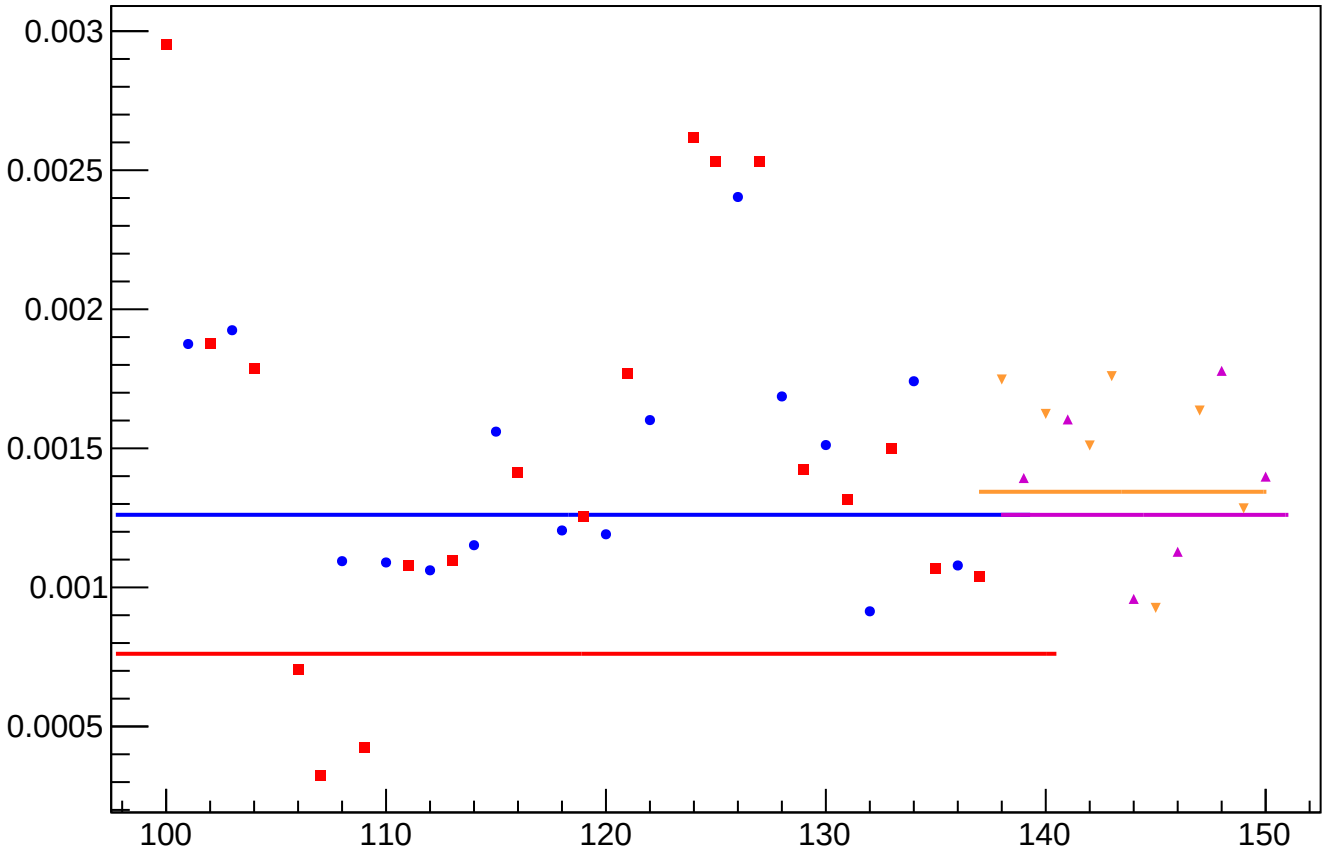
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.3/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:27.2/21

Out: -0.000+/-0.000 $\chi^2$/NDF:27.8/25

All: -0.000+/-0.000 $\chi^2$/NDF: 57.6/47




Right In: 0.001+/-0.000 $\chi^2$/NDF: 907342.5/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:617285.1/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4672607.8/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:445997.8/5

Left: 0.001+/-0.000 $\chi^2$/NDF: 1083351.6/12

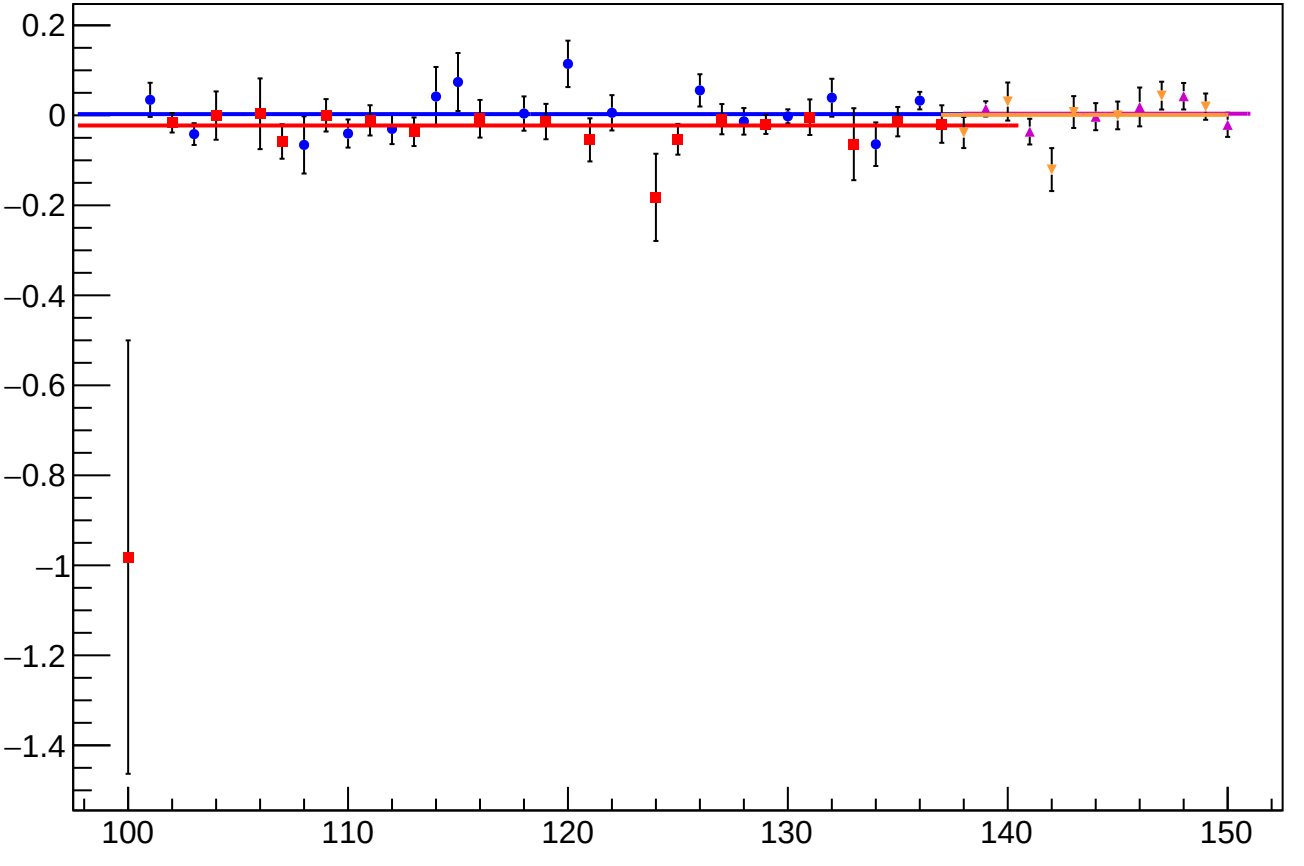
Right: 0.001+/-0.000 $\chi^2$/NDF: 6998069.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:1353340.4/21

Out: 0.001+/-0.000 $\chi^2$/NDF:6720920.5/25

All: 0.001+/-0.000 $\chi^2$/NDF: 9222835.5/47

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:10.6/6

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.004+/-0.011 $\chi^2$/NDF:5.1/5

Left: 0.003+/-0.008 $\chi^2$/NDF: 15.7/12

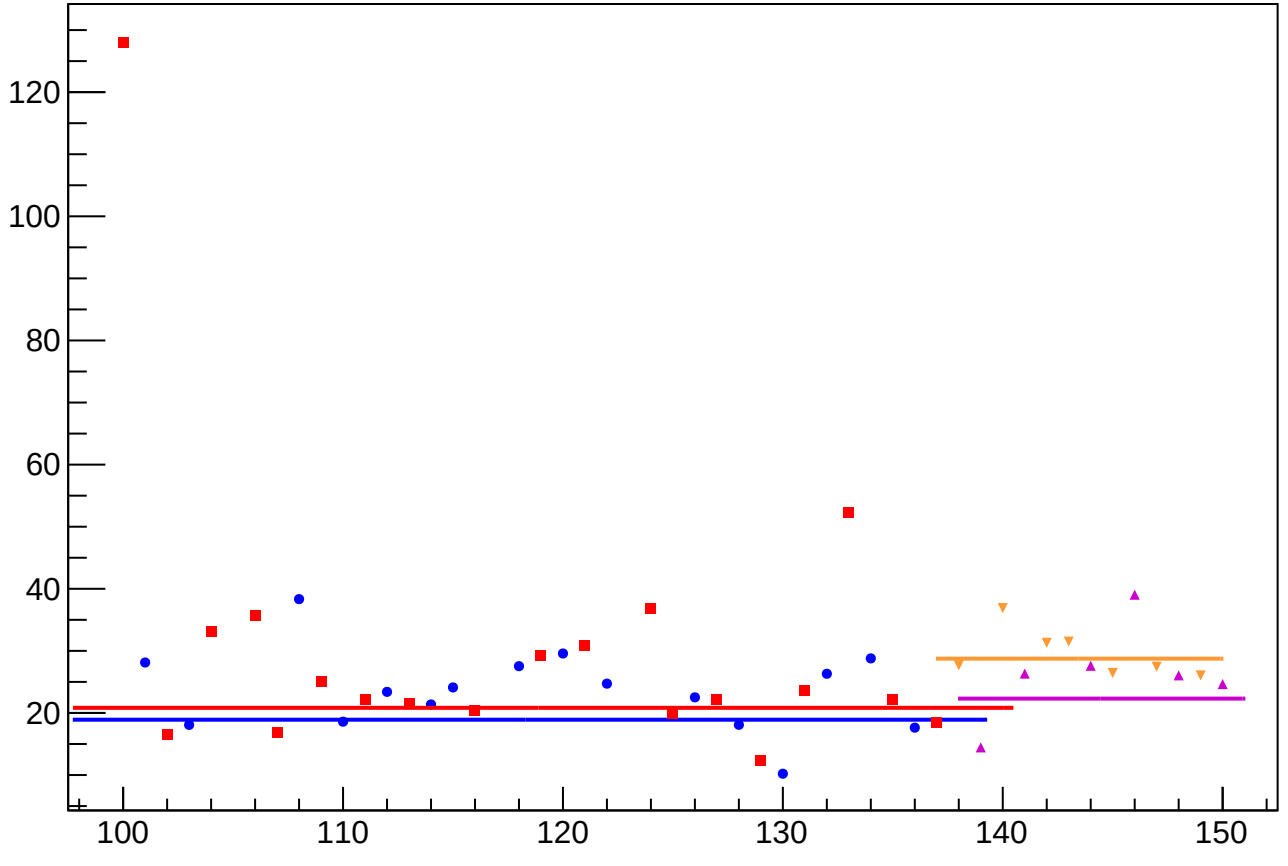
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.003+/-0.006 $\chi^2$/NDF:27.0/21

Out: -0.016+/-0.007 $\chi^2$/NDF:23.7/25

All: -0.005+/-0.005 $\chi^2$/NDF: 54.6/47

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.912+/-0.006 $\chi^2$/NDF: 1390233.4/15

Left Out: 28.746+/-0.009 $\chi^2$/NDF:125638.9/6

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 22.311+/-0.008 $\chi^2$/NDF:879139.9/5

Left: 24.881+/-0.006 $\chi^2$/NDF: 1298429.0/12

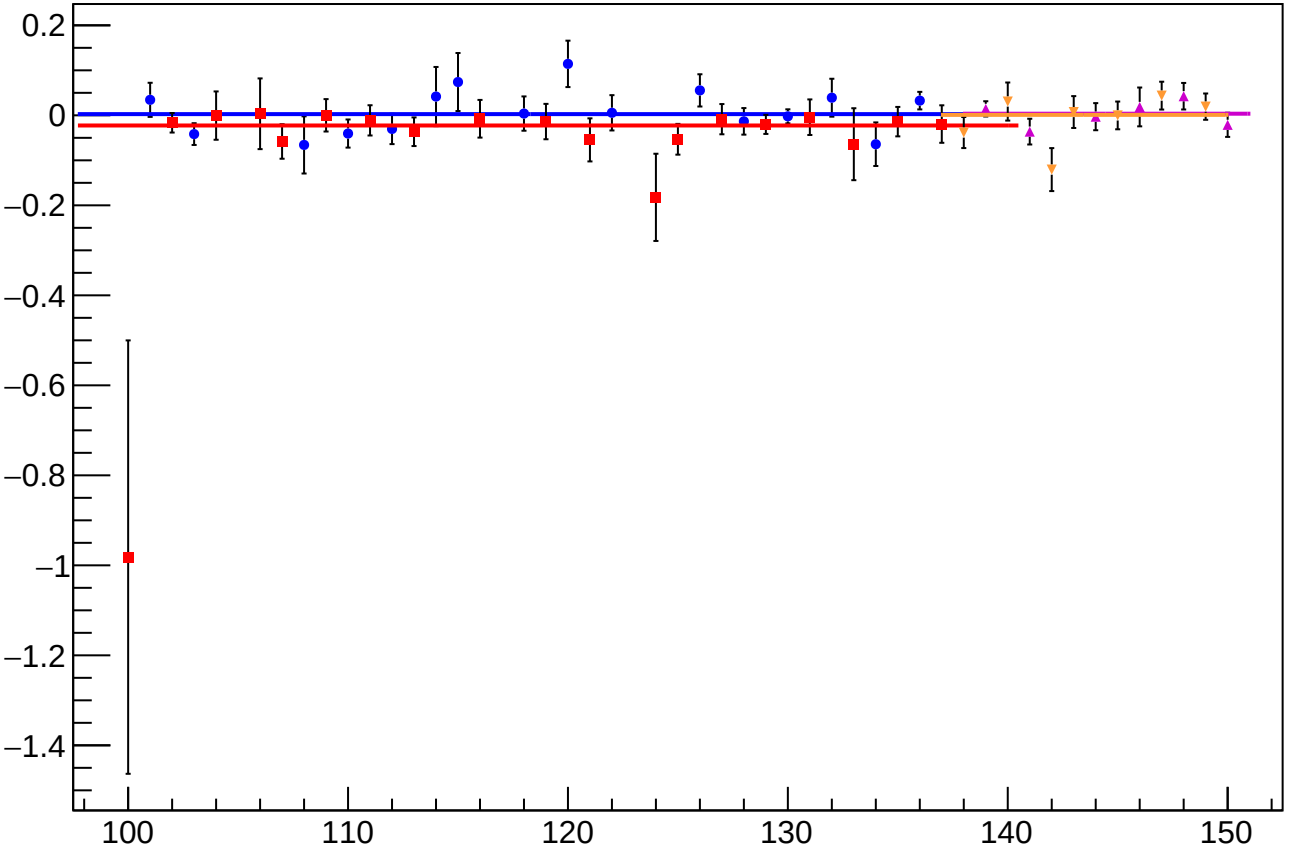
Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

In: 20.105+/-0.004 $\chi^2$/NDF:2402537.8/21

Out: 23.175+/-0.005 $\chi^2$/NDF:1938113.5/25

All: 21.457+/-0.003 $\chi^2$/NDF: 4550666.6/47

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:10.6/6

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.004+/-0.011 $\chi^2$/NDF:5.1/5

Left: 0.003+/-0.008 $\chi^2$/NDF: 15.7/12

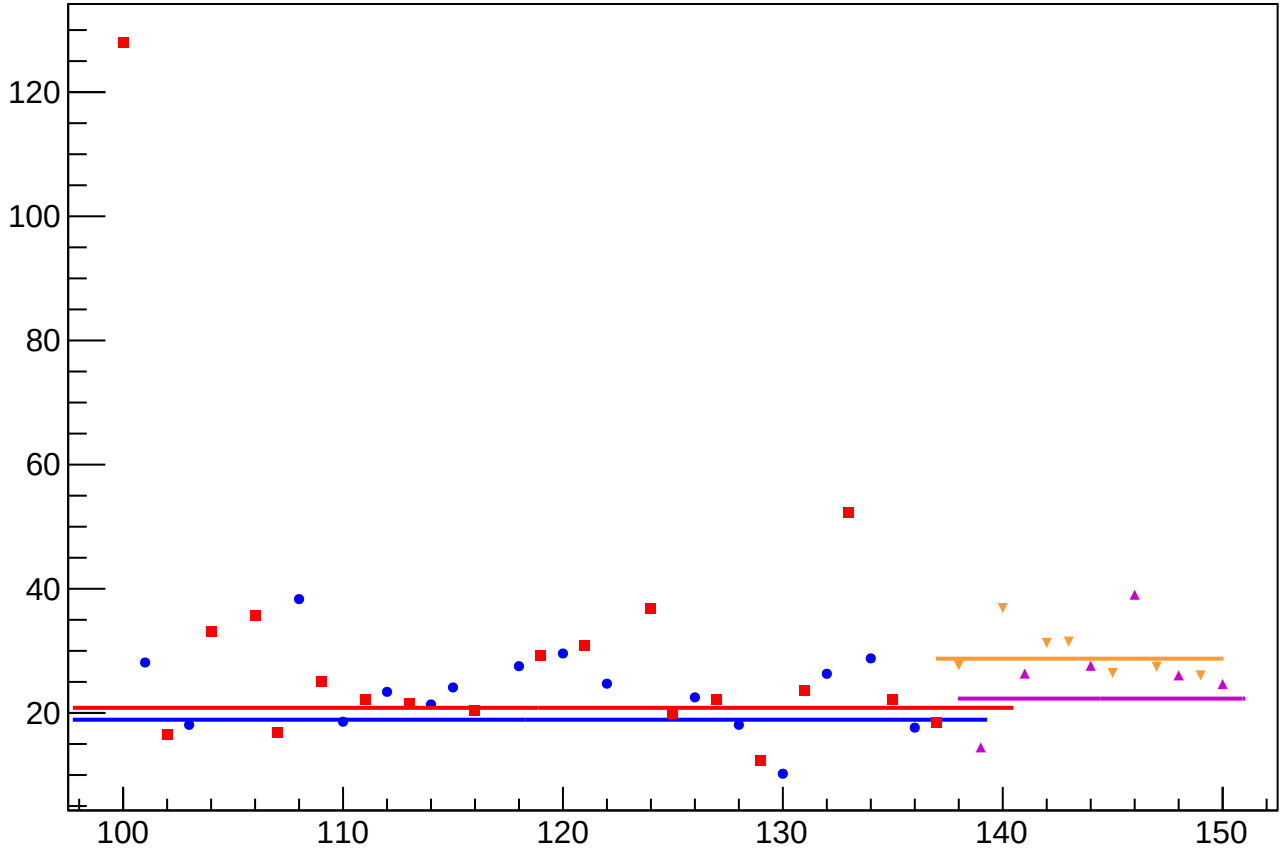
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.003+/-0.006 $\chi^2$/NDF:27.0/21

Out: -0.016+/-0.007 $\chi^2$/NDF:23.7/25

All: -0.005+/-0.005 $\chi^2$/NDF: 54.6/47

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.912+/-0.006 $\chi^2$/NDF: 1390233.4/15

Left Out: 28.746+/-0.009 $\chi^2$/NDF:125638.9/6

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 22.311+/-0.008 $\chi^2$/NDF:879139.9/5

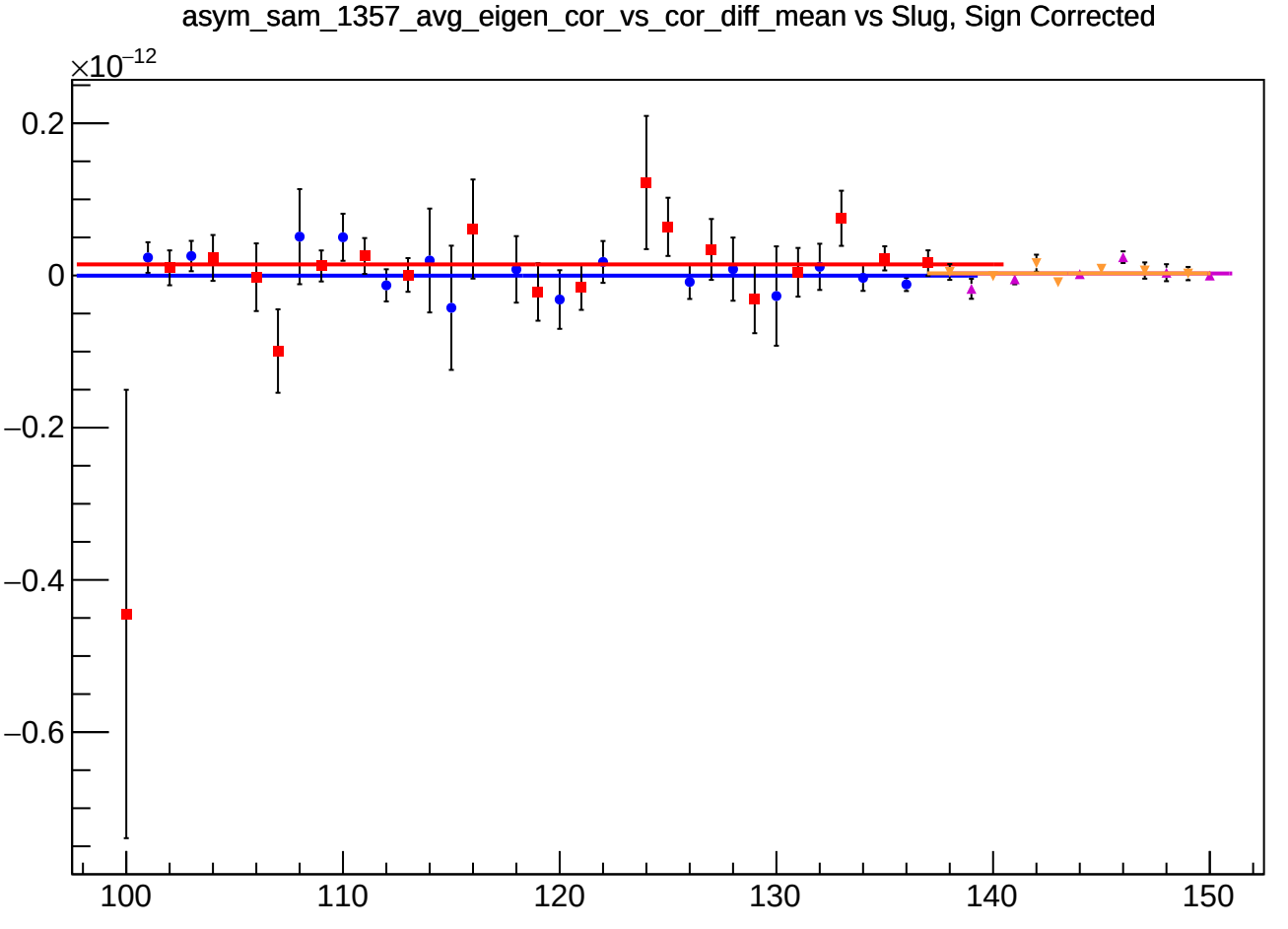
Left: 24.881+/-0.006 $\chi^2$/NDF: 1298429.0/12

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

In: 20.105+/-0.004 $\chi^2$/NDF:2402537.8/21

Out: 23.175+/-0.005 $\chi^2$/NDF:1938113.5/25

All: 21.457+/-0.003 $\chi^2$/NDF: 4550666.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:11.7/5

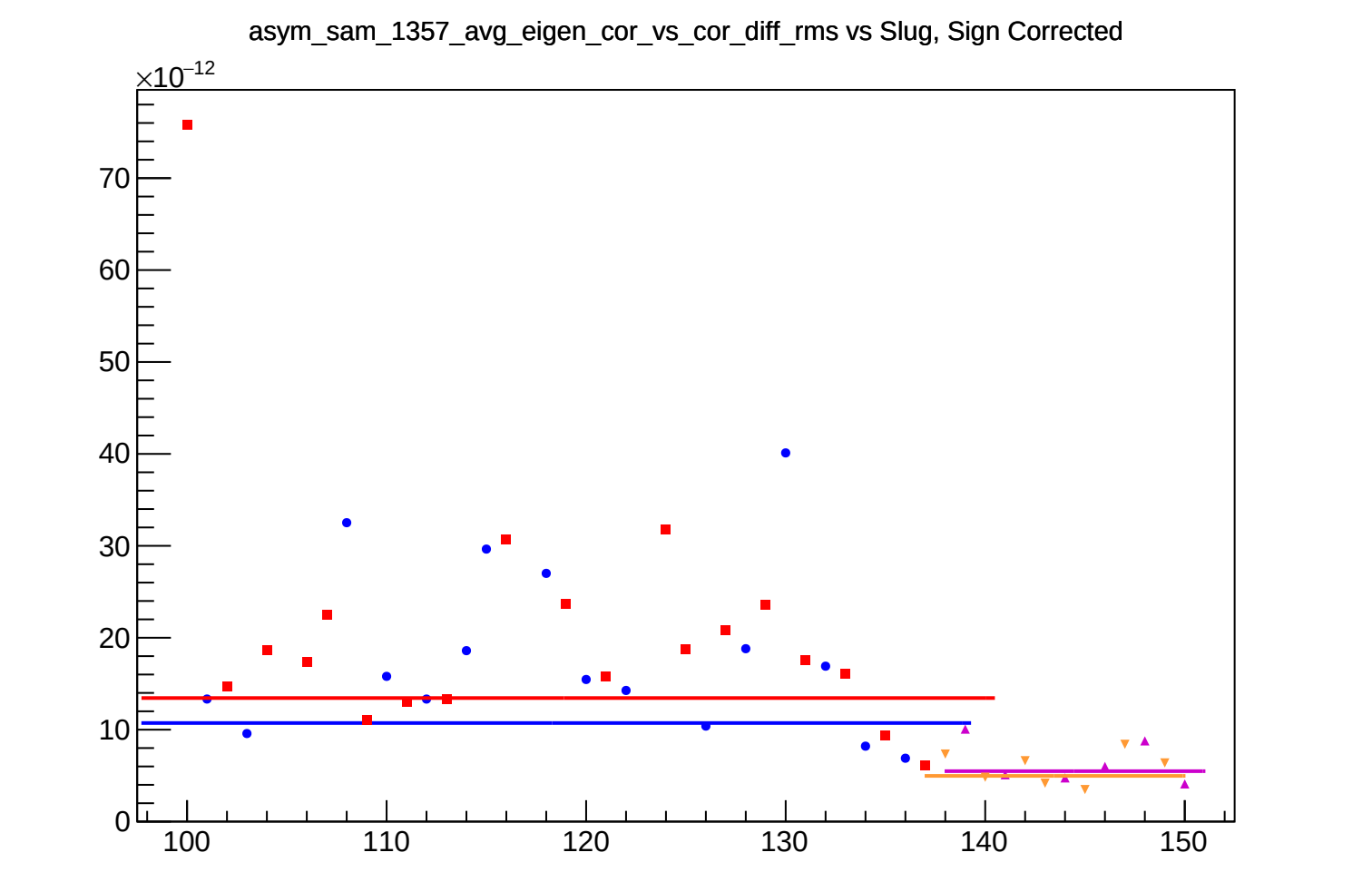
Left: 0.000+/-0.000 $\chi^2$/NDF: 18.5/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:22.4/21

Out: 0.000+/-0.000 $\chi^2$/NDF:27.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 50.1/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1836547.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:618160.8/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1402984.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:553670.2/5

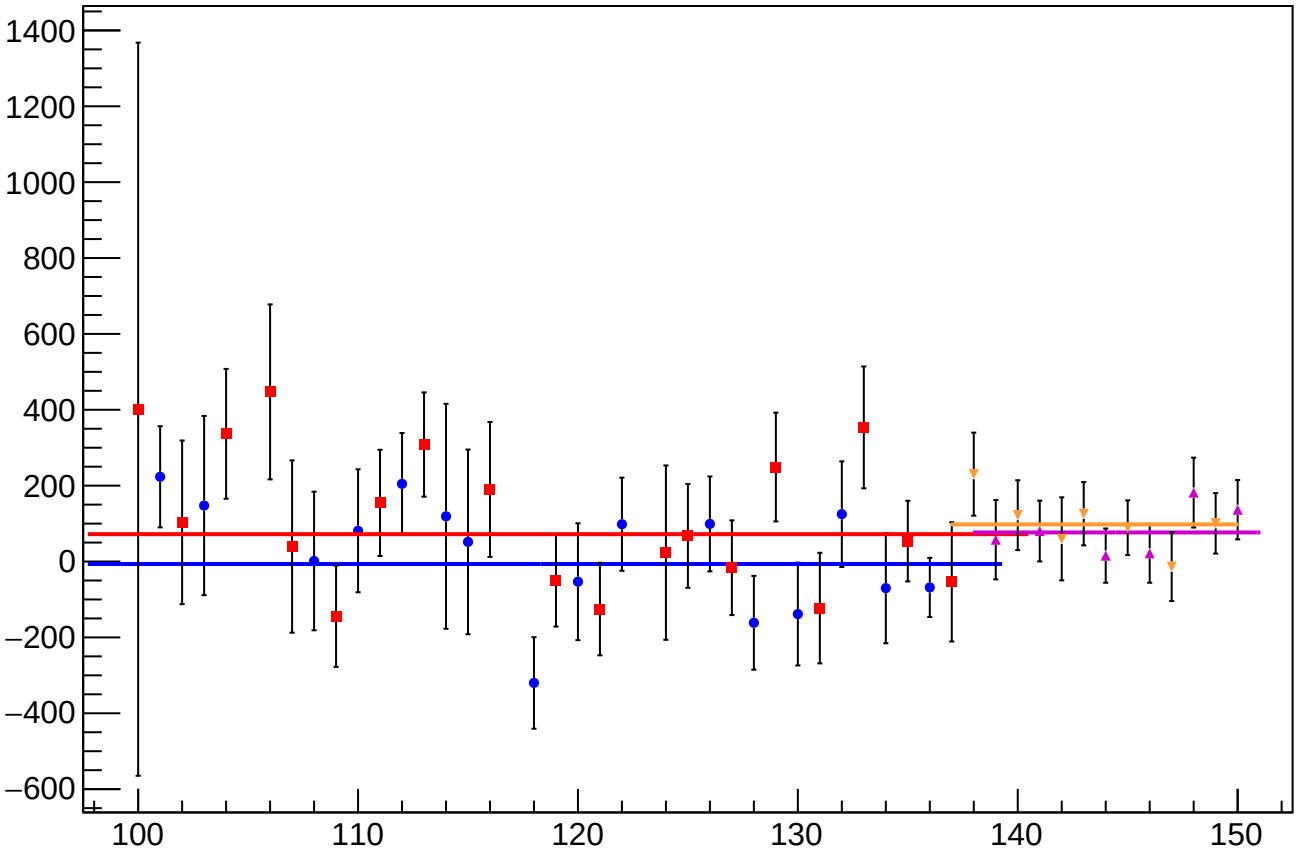
Left: 0.000+/-0.000 $\chi^2$/NDF: 1202603.3/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 3438709.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3729460.9/21

Out: 0.000+/-0.000 $\chi^2$/NDF:4869812.7/25

All: 0.000+/-0.000 $\chi^2$/NDF: 8629363.1/47




Right In: -6.559+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 97.907+/-33.342 $\chi^2$/NDF:3.3/6

Right Out: 72.124+/-34.883 $\chi^2$/NDF: 22.8/18

Left In: 76.661+/-33.527 $\chi^2$/NDF:3.2/5

Left: 87.343+/-23.641 $\chi^2$/NDF: 6.7/12

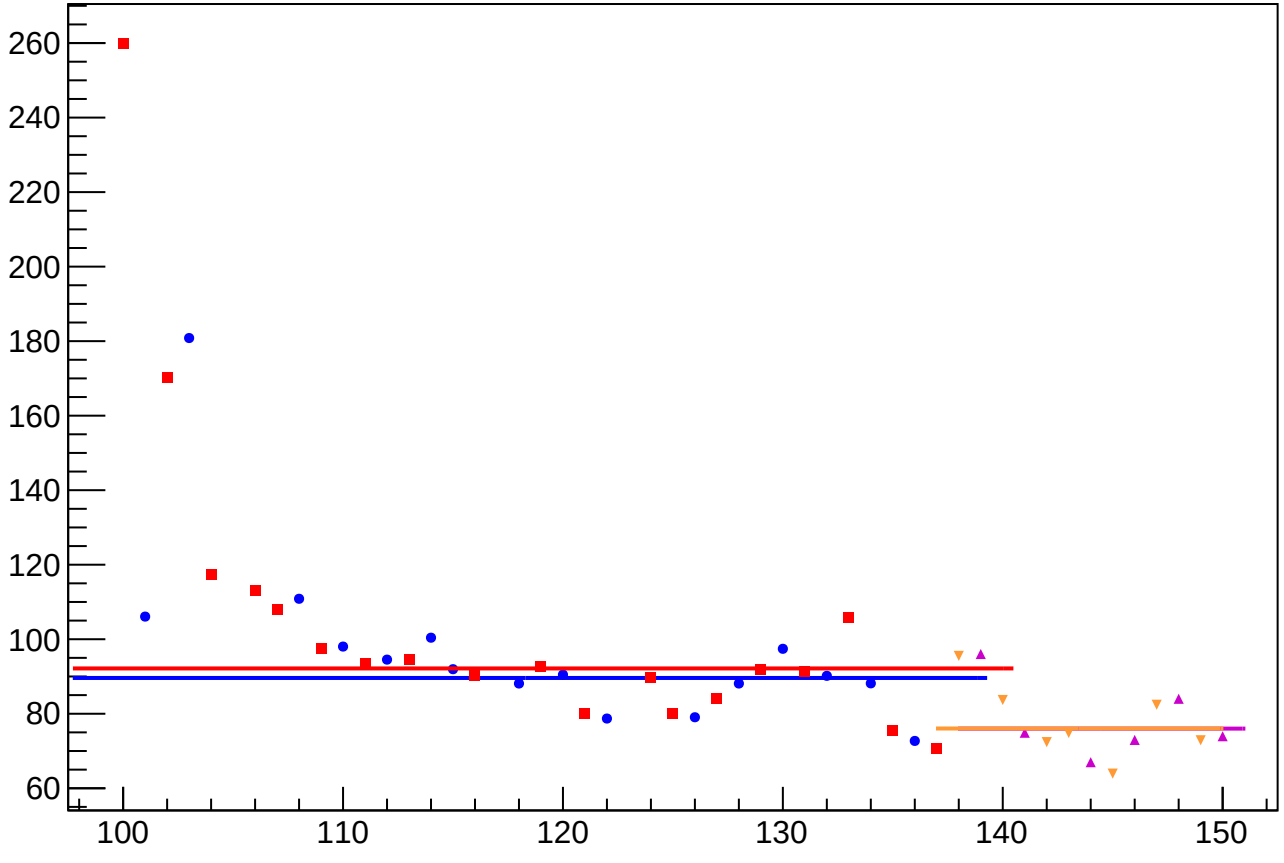
Right: 32.104+/-24.452 $\chi^2$/NDF: 44.3/34

In: 35.982+/-23.971 $\chi^2$/NDF:25.1/21

Out: 85.598+/-24.103 $\chi^2$/NDF:26.4/25

All: 60.654+/-16.996 $\chi^2$/NDF: 53.6/47

# reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498380.8/15

Left Out: 76.042+/-0.024 $\chi^2$/NDF:149301.7/6

Right Out: 92.161+/-0.025 $\chi^2$/NDF: 542074.4/18

Left In: 76.012+/-0.024 $\chi^2$/NDF:124945.2/5

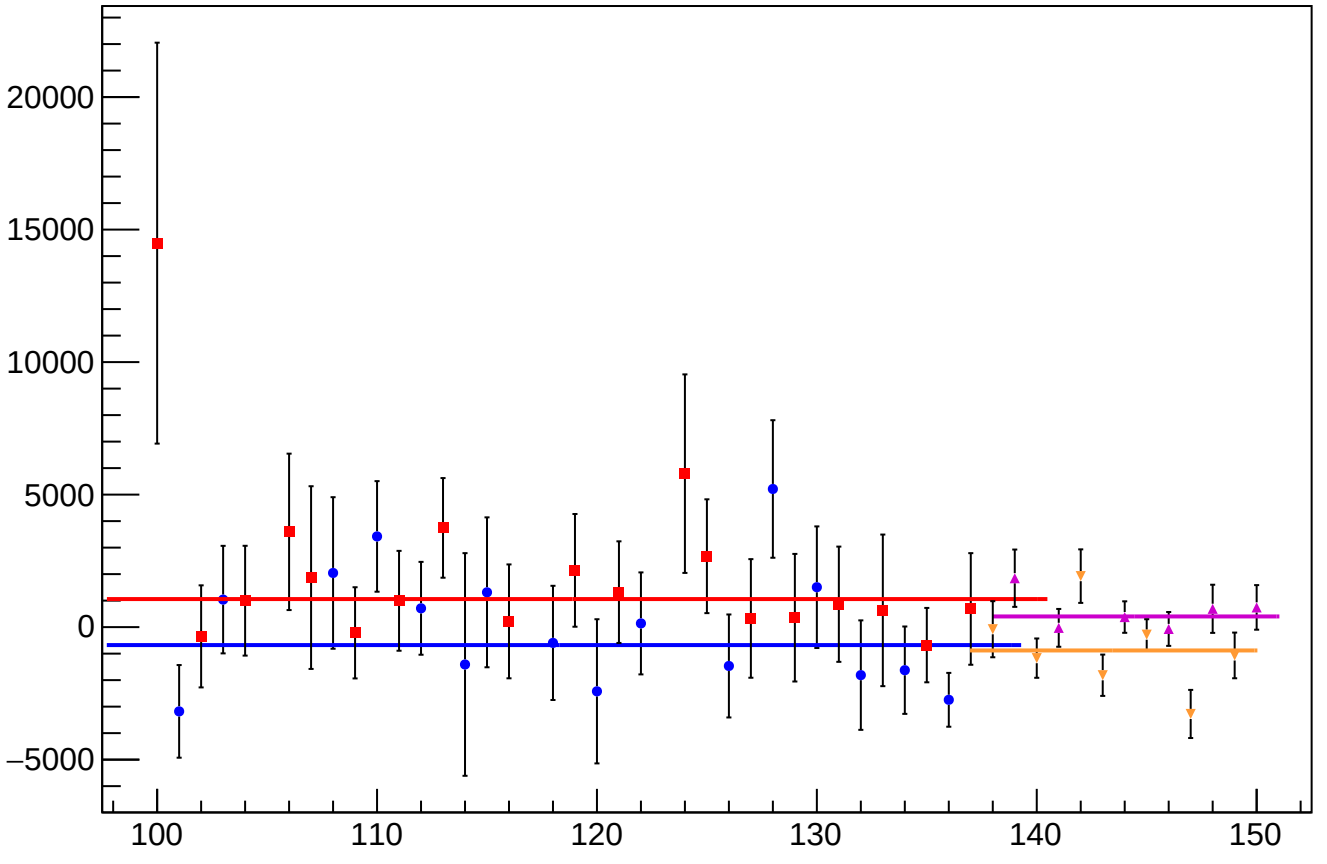
Left: 76.027+/-0.017 $\chi^2$/NDF: 274247.7/12

Right: 90.860+/-0.017 $\chi^2$/NDF: 1045922.9/34

In: 82.656+/-0.017 $\chi^2$/NDF:783991.5/21

Out: 83.738+/-0.017 $\chi^2$/NDF:914536.8/25

All: 83.194+/-0.012 $\chi^2$/NDF: 1700554.7/47




Right In: -677.381+/-486.480 $\chi^2$/NDF: 20.3/15

Left Out: -880.275+/-303.612 $\chi^2$/NDF:17.9/6

Right Out: 1058.761+/-496.350 $\chi^2$/NDF: 11.5/18

Left In: 402.912+/-305.342 $\chi^2$/NDF:3.0/5

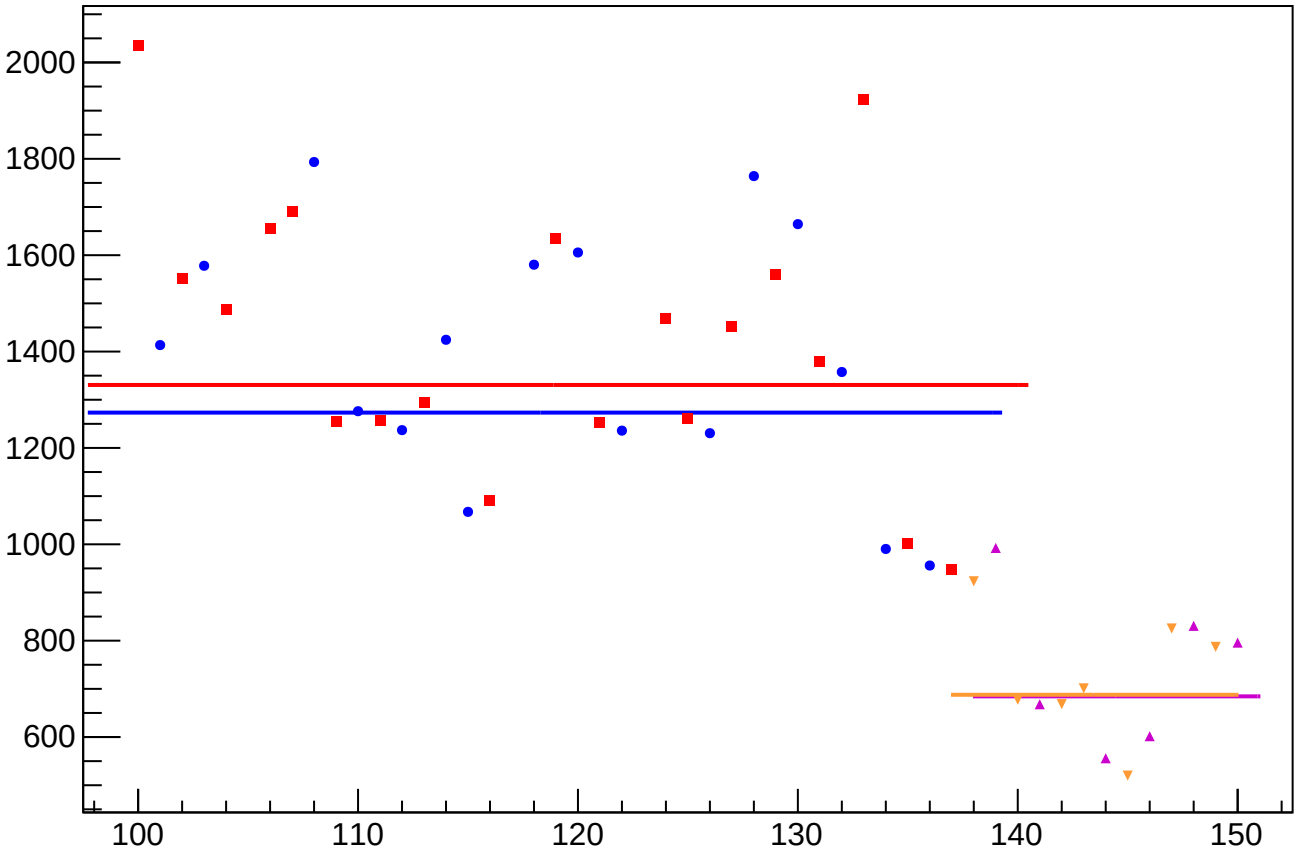
Left: -242.327+/-215.295 $\chi^2$/NDF: 29.8/12

Right: 173.256+/-347.430 $\chi^2$/NDF: 38.0/34

In: 97.605+/-258.620 $\chi^2$/NDF:26.8/21

Out: -352.306+/-259.000 $\chi^2$/NDF:40.5/25

All: -127.021+/-183.006 $\chi^2$/NDF: 68.8/47




Right In: 1273.324+/-0.344 $\chi^2$/NDF: 597520.6/15

Left Out: 687.728+/-0.215 $\chi^2$/NDF:339509.2/6

Right Out: 1330.683+/-0.351 $\chi^2$/NDF: 470703.7/18

Left In: 684.439+/-0.216 $\chi^2$/NDF:377392.6/5

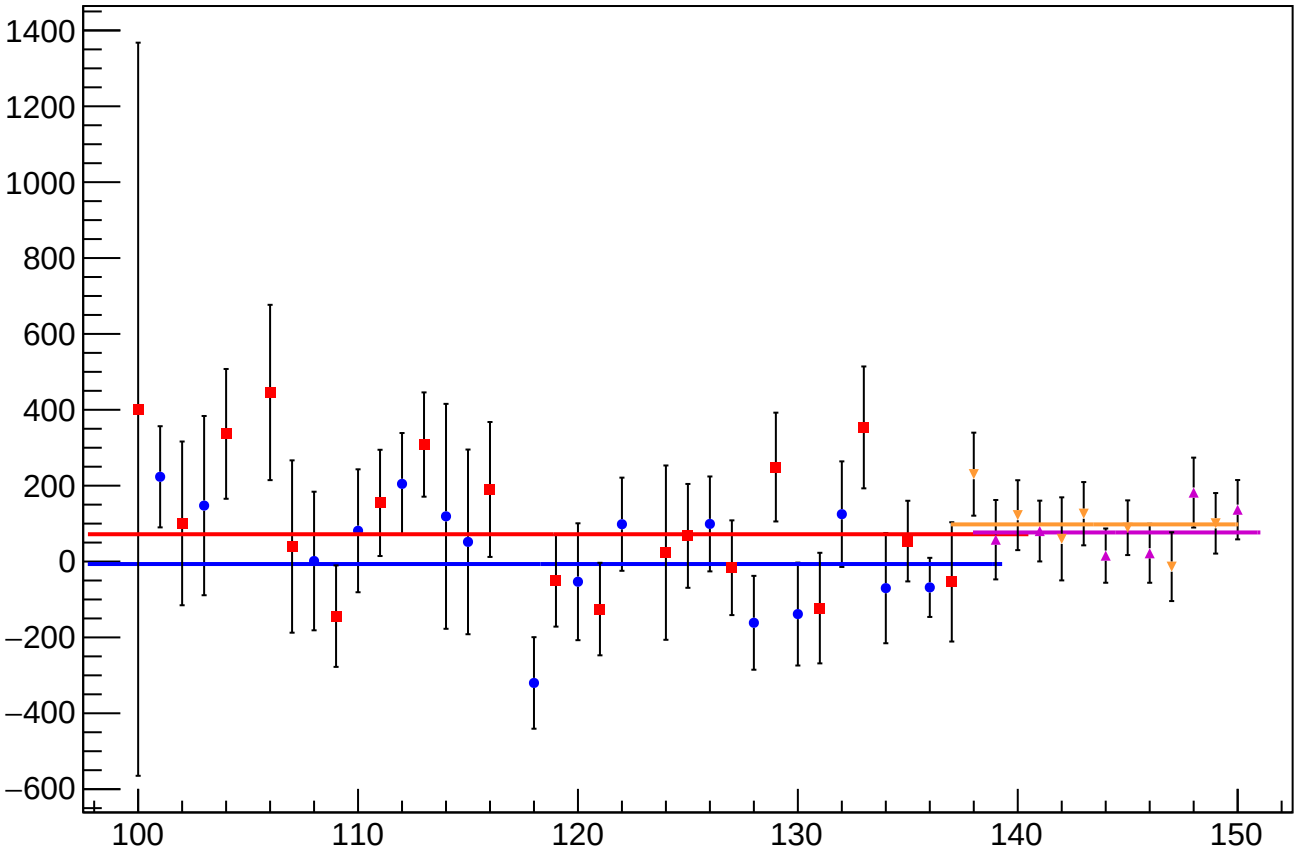
Left: 686.093+/-0.152 $\chi^2$/NDF: 717018.6/12

Right: 1301.428+/-0.246 $\chi^2$/NDF: 1081847.0/34

In: 850.867+/-0.183 $\chi^2$/NDF:3077303.5/21

Out: 862.795+/-0.183 $\chi^2$/NDF:3252387.2/25

All: 856.822+/-0.129 $\chi^2$/NDF: 6331814.8/47




Right In: -6.568+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 97.920+/-33.342 $\chi^2$/NDF:3.3/6

Right Out: 71.981+/-34.885 $\chi^2$/NDF: 22.8/18

Left In: 76.663+/-33.527 $\chi^2$/NDF:3.2/5

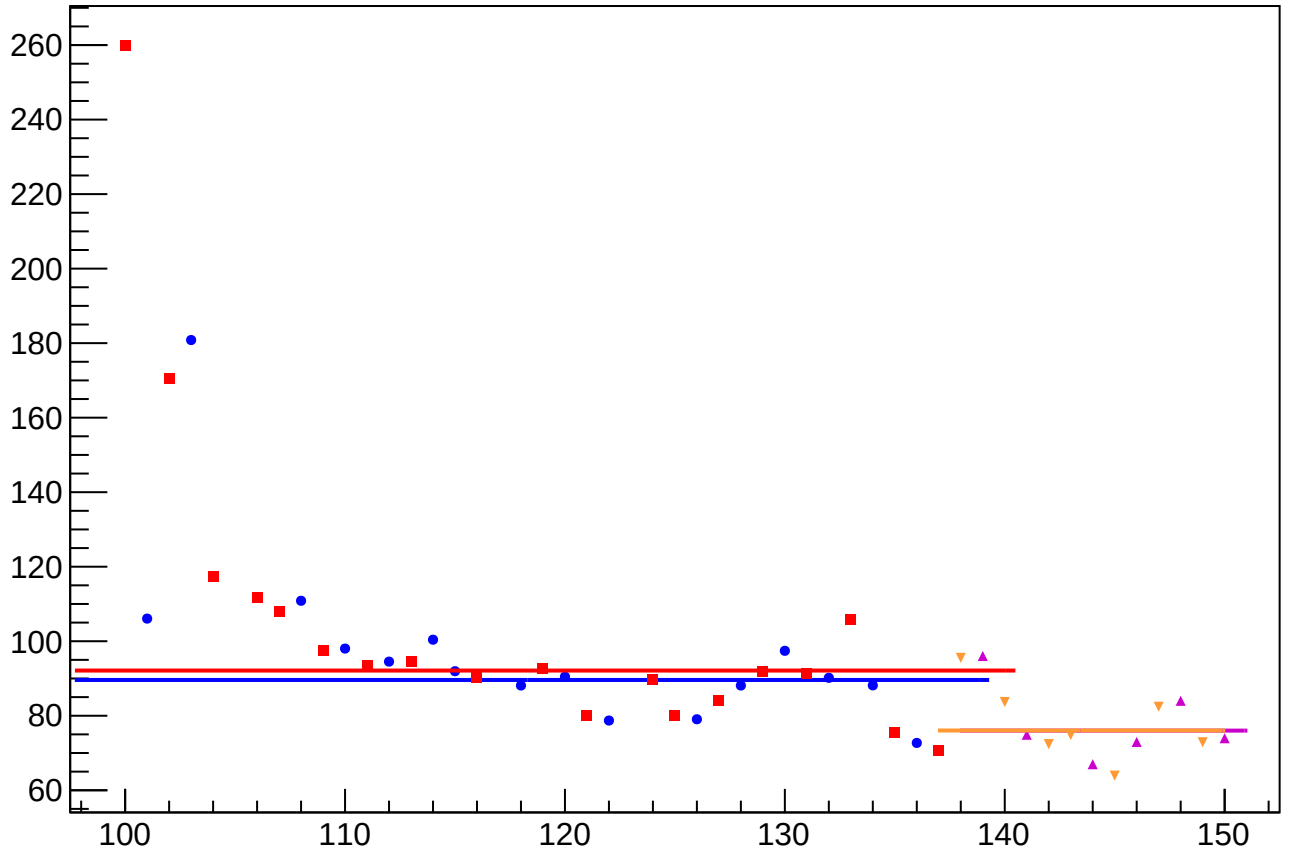
Left: 87.350+/-23.641 $\chi^2$/NDF: 6.6/12

Right: 32.026+/-24.453 $\chi^2$/NDF: 44.3/34

In: 35.979+/-23.971 $\chi^2$/NDF:25.1/21

Out: 85.537+/-24.103 $\chi^2$/NDF:26.3/25

All: 60.622+/-16.997 $\chi^2$/NDF: 53.5/47




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 76.042+/-0.024 $\chi^2$/NDF:149301.6/6

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 76.012+/-0.024 $\chi^2$/NDF:124945.2/5

Left: 76.027+/-0.017 $\chi^2$/NDF: 274247.7/12

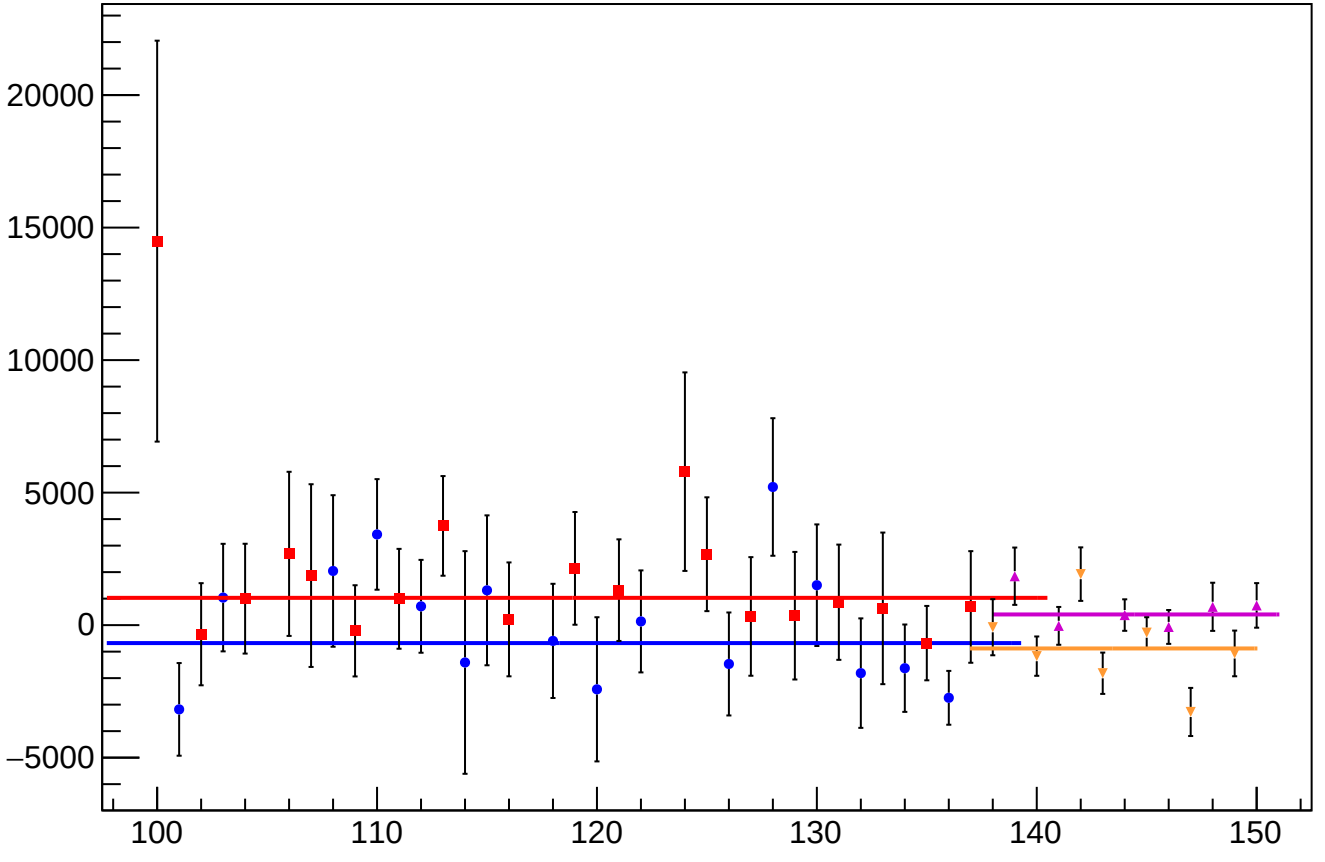
Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 82.656+/-0.017 $\chi^2$/NDF:783995.1/21

Out: 83.722+/-0.017 $\chi^2$/NDF:911878.8/25

All: 83.186+/-0.012 $\chi^2$/NDF: 1697842.1/47

asym_sam_2468_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -880.264+/-303.611 $\chi^2$/NDF:17.9/6

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 402.919+/-305.342 $\chi^2$/NDF:3.0/5

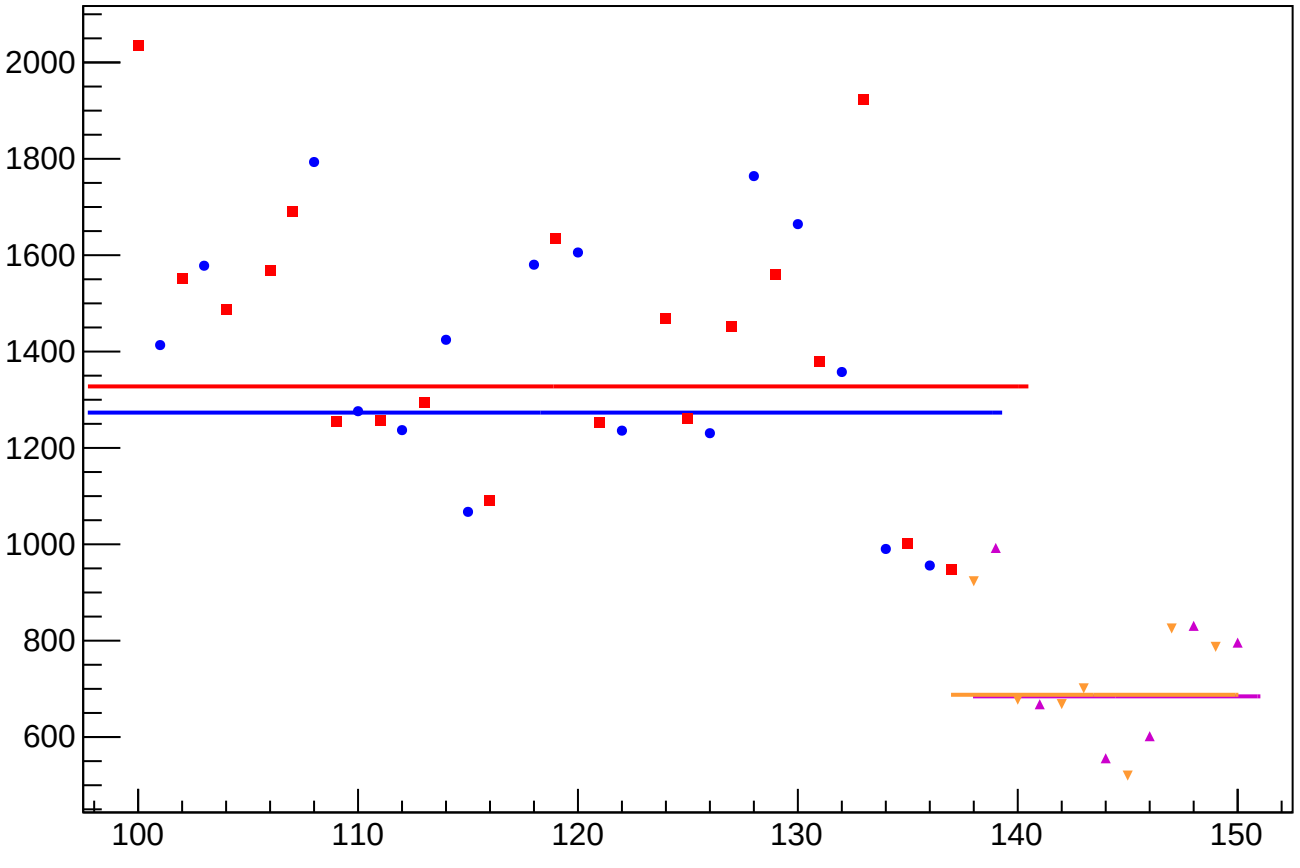
Left: -242.319+/-215.295 $\chi^2$/NDF: 29.8/12

Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: 97.622+/-258.621 $\chi^2$/NDF:26.8/21

Out: -361.311+/-259.094 $\chi^2$/NDF:39.7/25

All: -131.424+/-183.040 $\chi^2$/NDF: 68.0/47




Right In: 1273.327+/-0.344 $\chi^2$/NDF: 597547.8/15

Left Out: 687.728+/-0.215 $\chi^2$/NDF:339510.3/6

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 684.440+/-0.216 $\chi^2$/NDF:377391.6/5

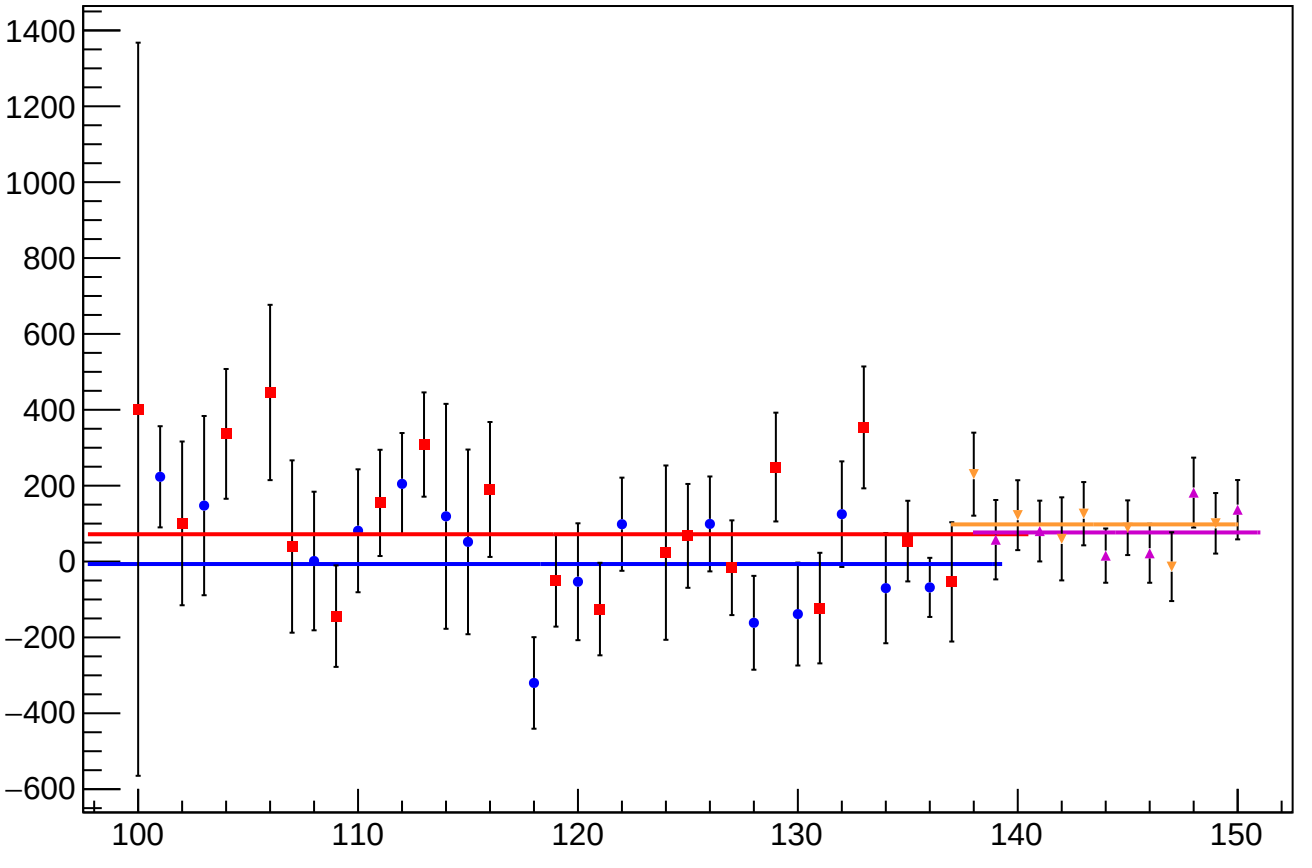
Left: 686.093+/-0.152 $\chi^2$/NDF: 717018.5/12

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 850.867+/-0.183 $\chi^2$/NDF:3077339.2/21

Out: 861.631+/-0.183 $\chi^2$/NDF:3212533.9/25

All: 856.239+/-0.129 $\chi^2$/NDF: 6291601.9/47




Right In: -6.568+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 97.920+/-33.342 $\chi^2$/NDF:3.3/6

Right Out: 71.981+/-34.885 $\chi^2$/NDF: 22.8/18

Left In: 76.663+/-33.527 $\chi^2$/NDF:3.2/5

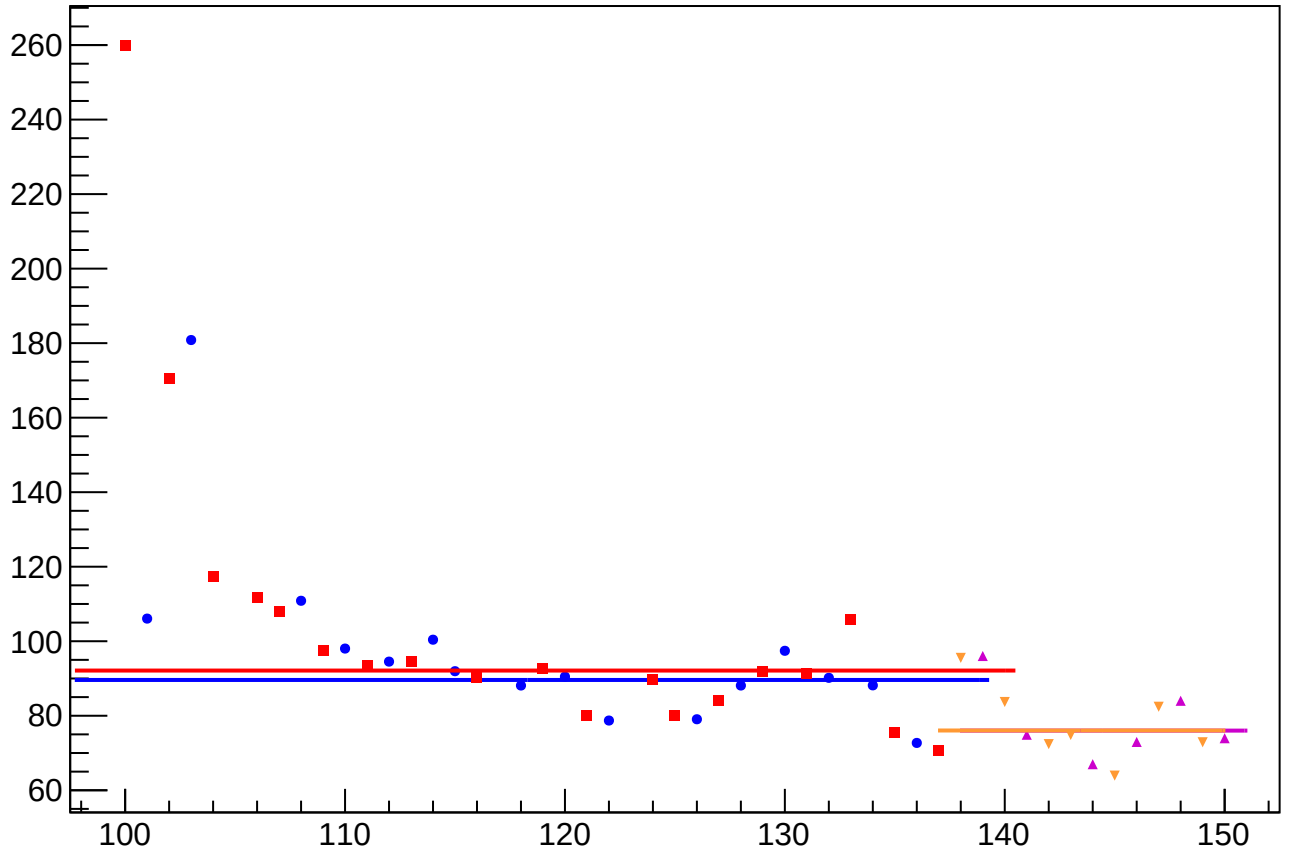
Left: 87.350+/-23.641 $\chi^2$/NDF: 6.6/12

Right: 32.026+/-24.453 $\chi^2$/NDF: 44.3/34

In: 35.979+/-23.971 $\chi^2$/NDF:25.1/21

Out: 85.537+/-24.103 $\chi^2$/NDF:26.3/25

All: 60.622+/-16.997 $\chi^2$/NDF: 53.5/47




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 76.042+/-0.024 $\chi^2$/NDF:149301.6/6

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 76.012+/-0.024 $\chi^2$/NDF:124945.2/5

Left: 76.027+/-0.017 $\chi^2$/NDF: 274247.7/12

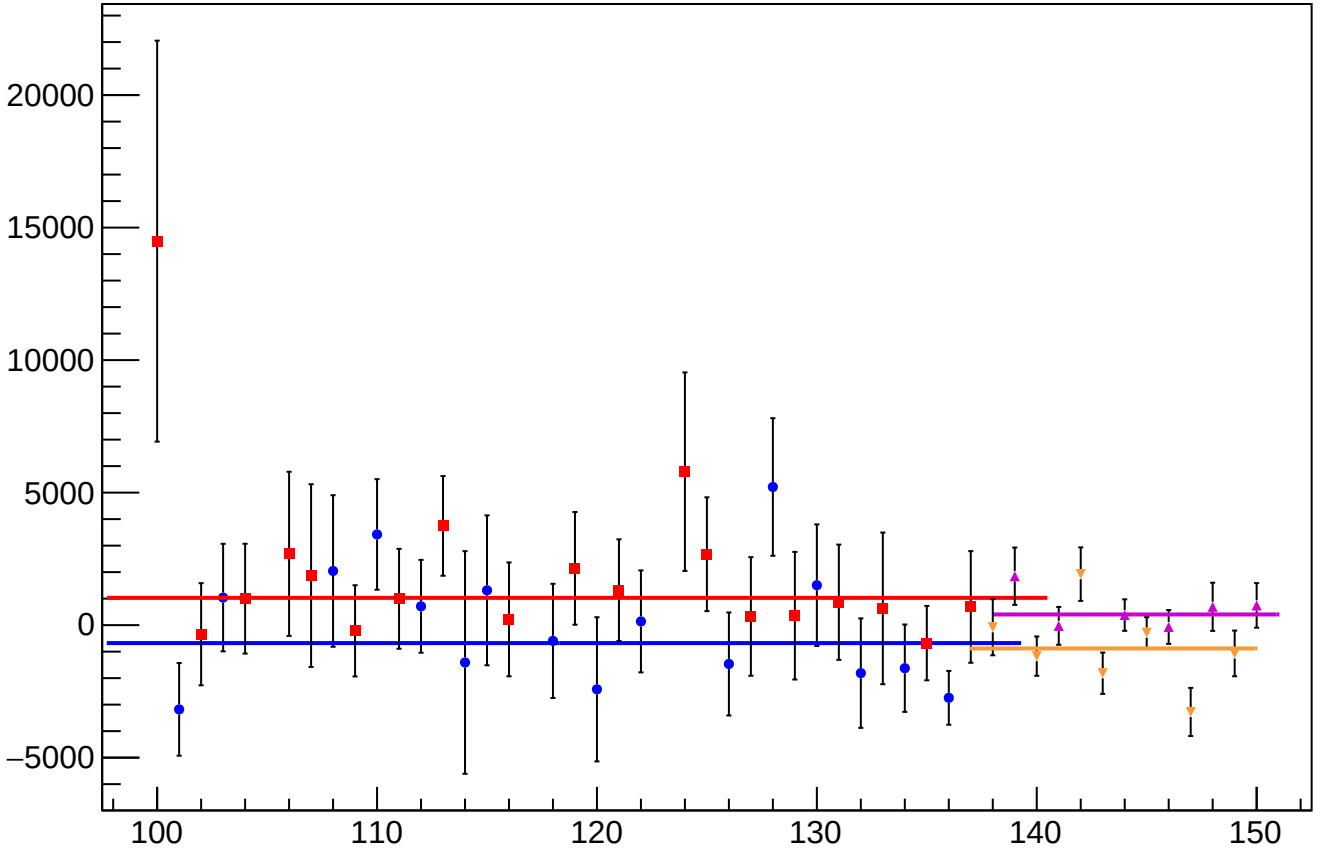
Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 82.656+/-0.017 $\chi^2$/NDF:783995.1/21

Out: 83.722+/-0.017 $\chi^2$/NDF:911878.8/25

All: 83.186+/-0.012 $\chi^2$/NDF: 1697842.1/47

asym_sam_2468_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -880.264+/-303.611 $\chi^2$/NDF:17.9/6

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 402.919+/-305.342 $\chi^2$/NDF:3.0/5

Left: -242.319+/-215.295 $\chi^2$/NDF: 29.8/12

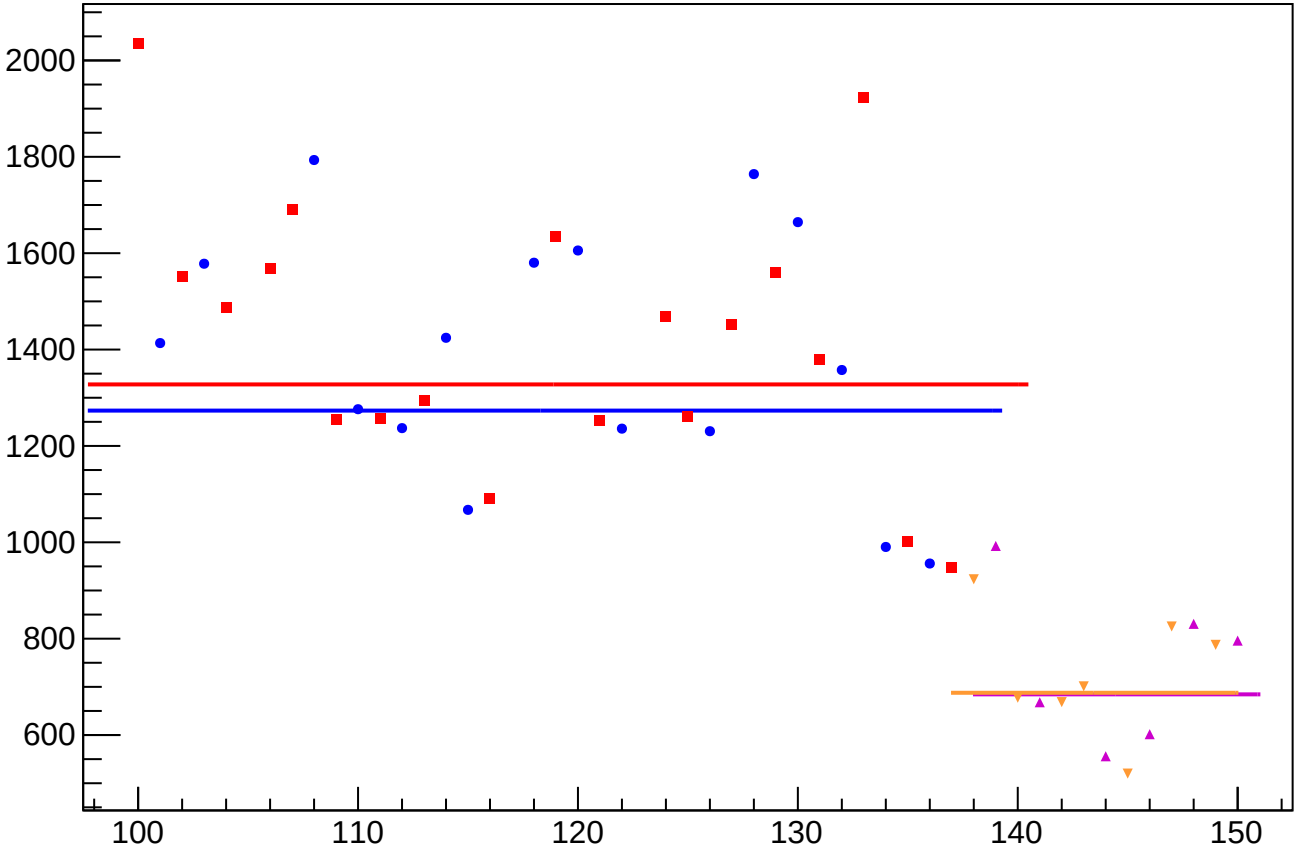
Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: 97.622+/-258.621 $\chi^2$/NDF:26.8/21

Out: -361.311+/-259.094 $\chi^2$/NDF:39.7/25

All: -131.424+/-183.040 $\chi^2$/NDF: 68.0/47

asym_sam_2468_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1273.327+/-0.344 $\chi^2$/NDF: 597547.8/15

Left Out: 687.728+/-0.215 $\chi^2$/NDF:339510.3/6

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 684.440+/-0.216 $\chi^2$/NDF:377391.6/5

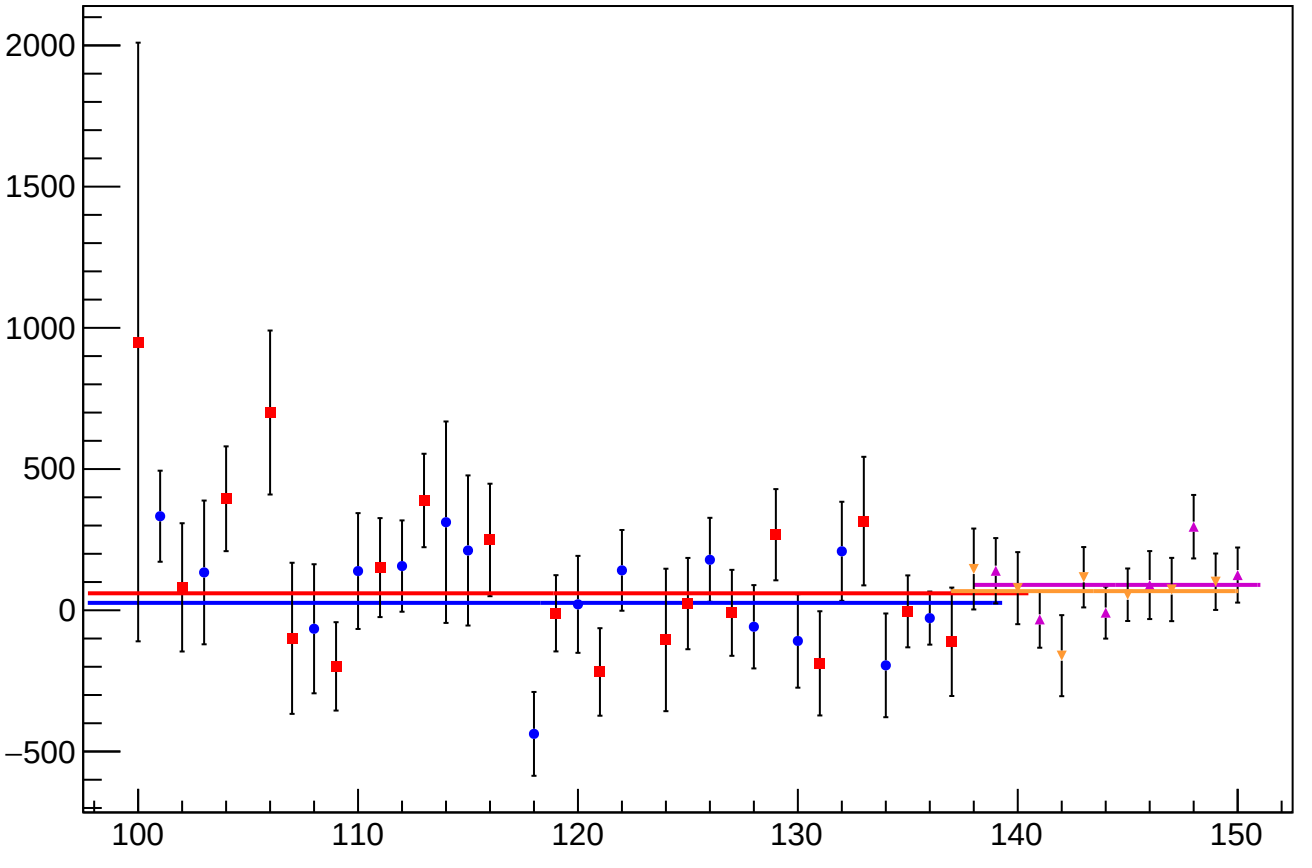
Left: 686.093+/-0.152 $\chi^2$/NDF: 717018.5/12

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 850.867+/-0.183 $\chi^2$/NDF:3077339.2/21

Out: 861.631+/-0.183 $\chi^2$/NDF:3212533.9/25

All: 856.239+/-0.129 $\chi^2$/NDF: 6291601.9/47




Right In: 26.251+/-41.220 $\chi^2$/NDF: 21.4/15

Left Out: 67.786+/-42.957 $\chi^2$/NDF:3.2/6

Right Out: 60.119+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 89.913+/-42.828 $\chi^2$/NDF:6.3/5

Left: 78.883+/-30.329 $\chi^2$/NDF: 9.6/12

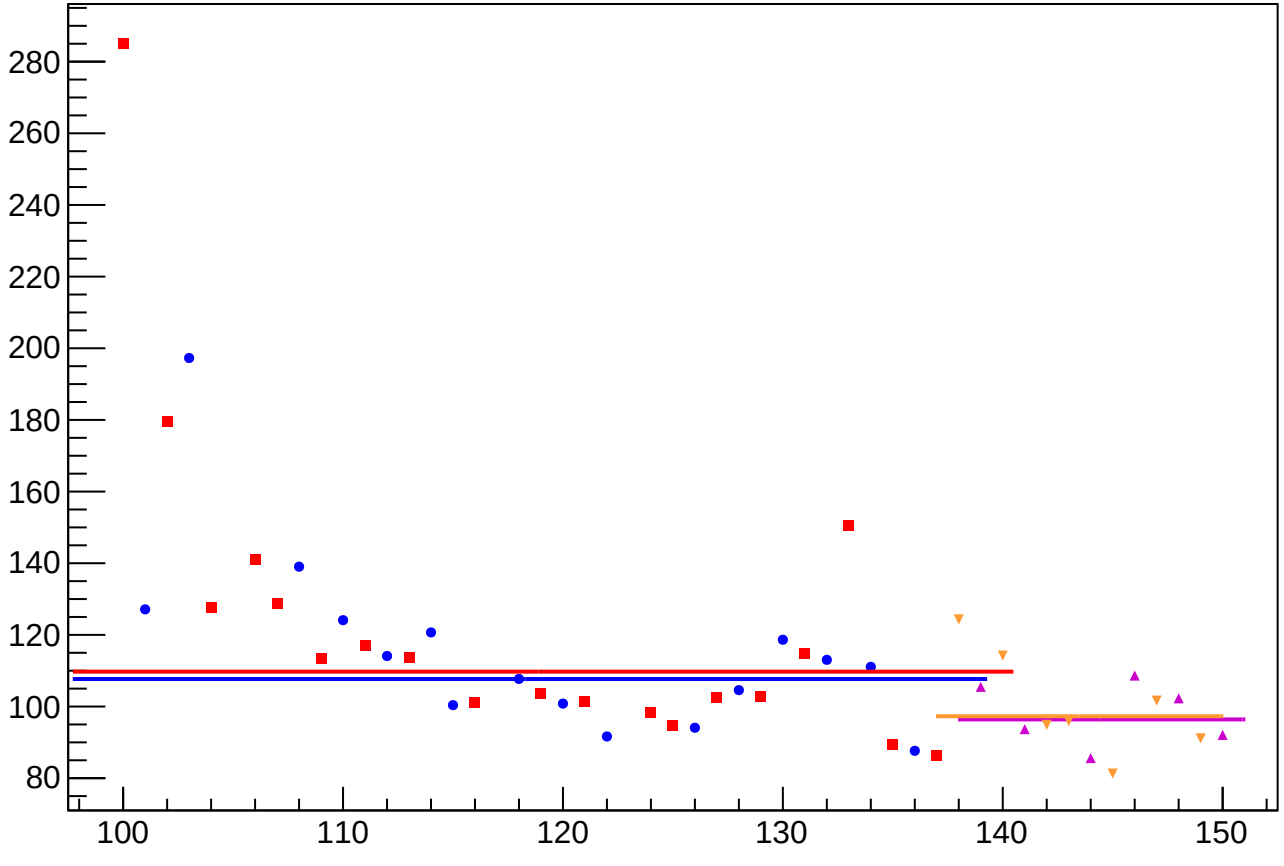
Right: 43.059+/-29.255 $\chi^2$/NDF: 48.7/34

In: 56.864+/-29.699 $\chi^2$/NDF:28.8/21

Out: 63.823+/-29.857 $\chi^2$/NDF:30.2/25

All: 60.325+/-21.056 $\chi^2$/NDF: 59.0/47

# dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 107.680+/-0.029 $\chi^2$/NDF: 483125.6/15

Left Out: 97.292+/-0.030 $\chi^2$/NDF:177311.5/6

Right Out: 109.739+/-0.029 $\chi^2$/NDF: 491787.3/18

Left In: 96.404+/-0.030 $\chi^2$/NDF:71355.0/5

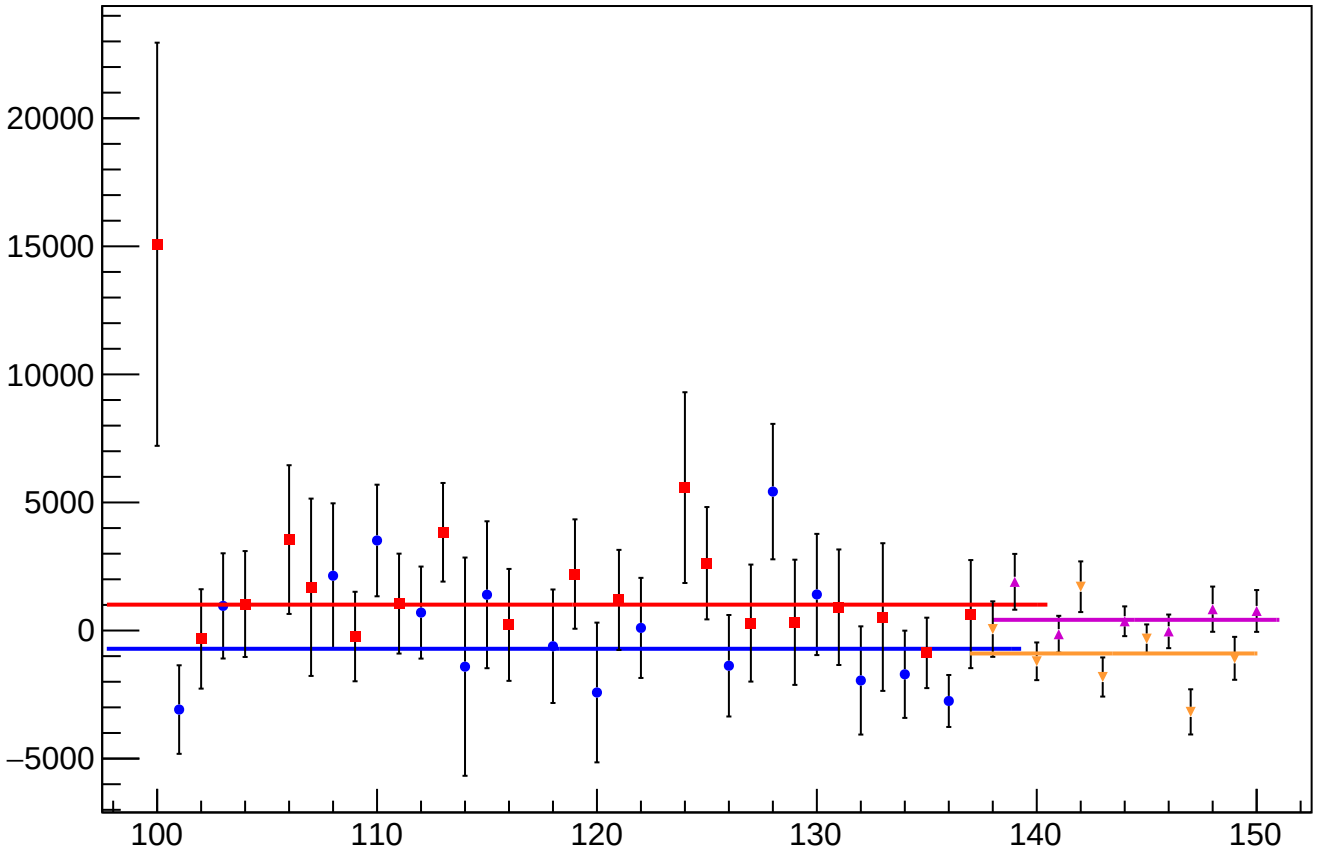
Left: 96.847+/-0.021 $\chi^2$/NDF: 249095.3/12

Right: 108.702+/-0.021 $\chi^2$/NDF: 977390.9/34

In: 102.258+/-0.021 $\chi^2$/NDF:626447.6/21

Out: 103.726+/-0.021 $\chi^2$/NDF:755896.2/25

All: 102.988+/-0.015 $\chi^2$/NDF: 1384776.3/47




Right In: -712.887+/-493.253 $\chi^2$/NDF: 20.1/15

Left Out: -895.868+/-296.570 $\chi^2$/NDF:17.1/6

Right Out: 1010.557+/-501.374 $\chi^2$/NDF: 11.8/18

Left In: 417.943+/-303.509 $\chi^2$/NDF:3.3/5

Left: -254.153+/-212.117 $\chi^2$/NDF: 30.1/12

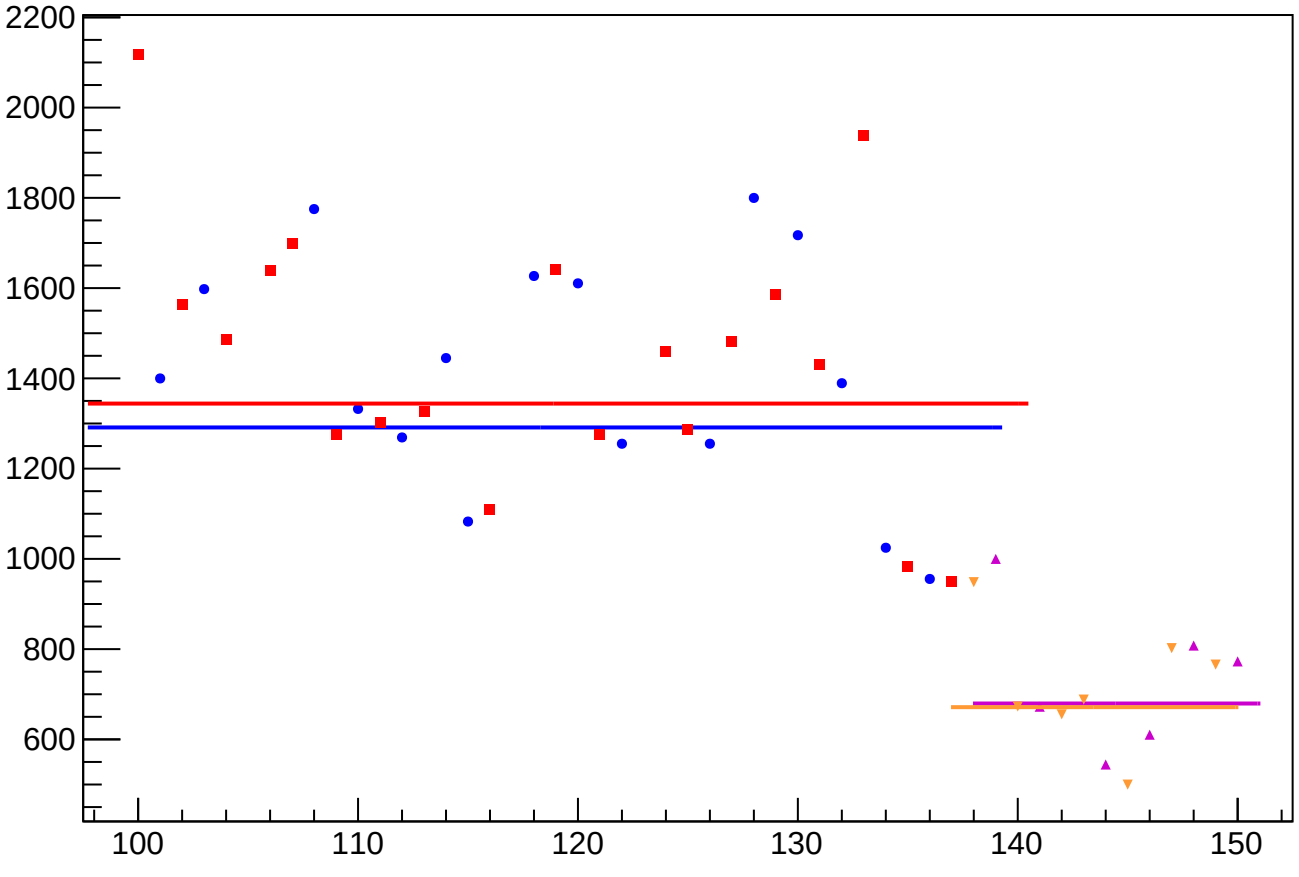
Right: 134.764+/-351.618 $\chi^2$/NDF: 37.9/34

In: 107.374+/-258.493 $\chi^2$/NDF:27.3/21

Out: -401.725+/-255.257 $\chi^2$/NDF:39.6/25

All: -150.382+/-181.627 $\chi^2$/NDF: 68.8/47

asym_sam_2468_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1291.223+/-0.349 $\chi^2$/NDF: 610897.3/15

Left Out: 671.379+/-0.210 $\chi^2$/NDF:391644.5/6

Right Out: 1344.118+/-0.355 $\chi^2$/NDF: 490963.7/18

Left In: 679.492+/-0.215 $\chi^2$/NDF:372045.1/5

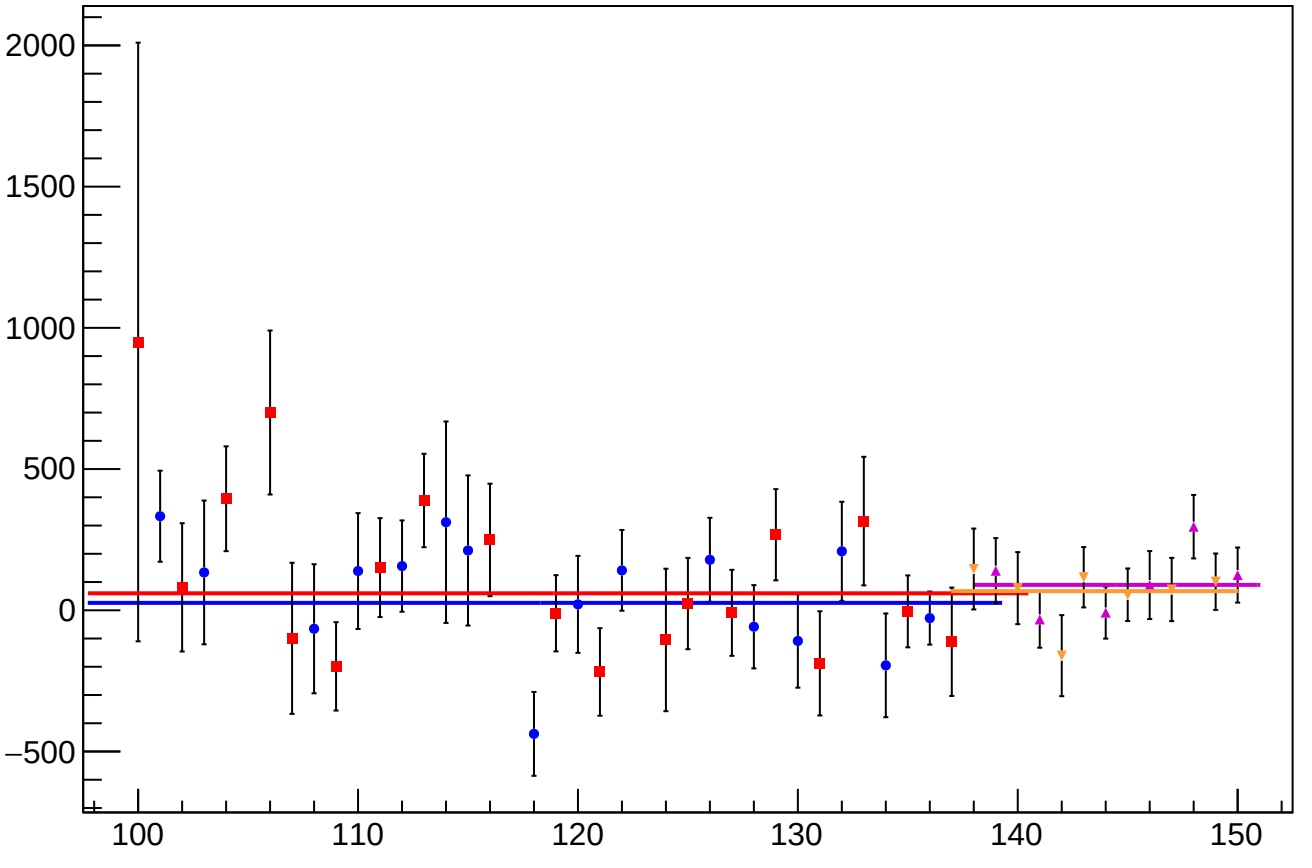
Left: 675.342+/-0.150 $\chi^2$/NDF: 764420.6/12

Right: 1317.239+/-0.249 $\chi^2$/NDF: 1113173.0/34

In: 847.496+/-0.183 $\chi^2$/NDF:3214287.6/21

Out: 845.752+/-0.180 $\chi^2$/NDF:3550088.8/25

All: 846.613+/-0.128 $\chi^2$/NDF: 6764422.6/47




Right In: 26.252+/-41.219 $\chi^2$/NDF: 21.4/15

Left Out: 67.786+/-42.957 $\chi^2$/NDF:3.2/6

Right Out: 60.117+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 89.912+/-42.828 $\chi^2$/NDF:6.3/5

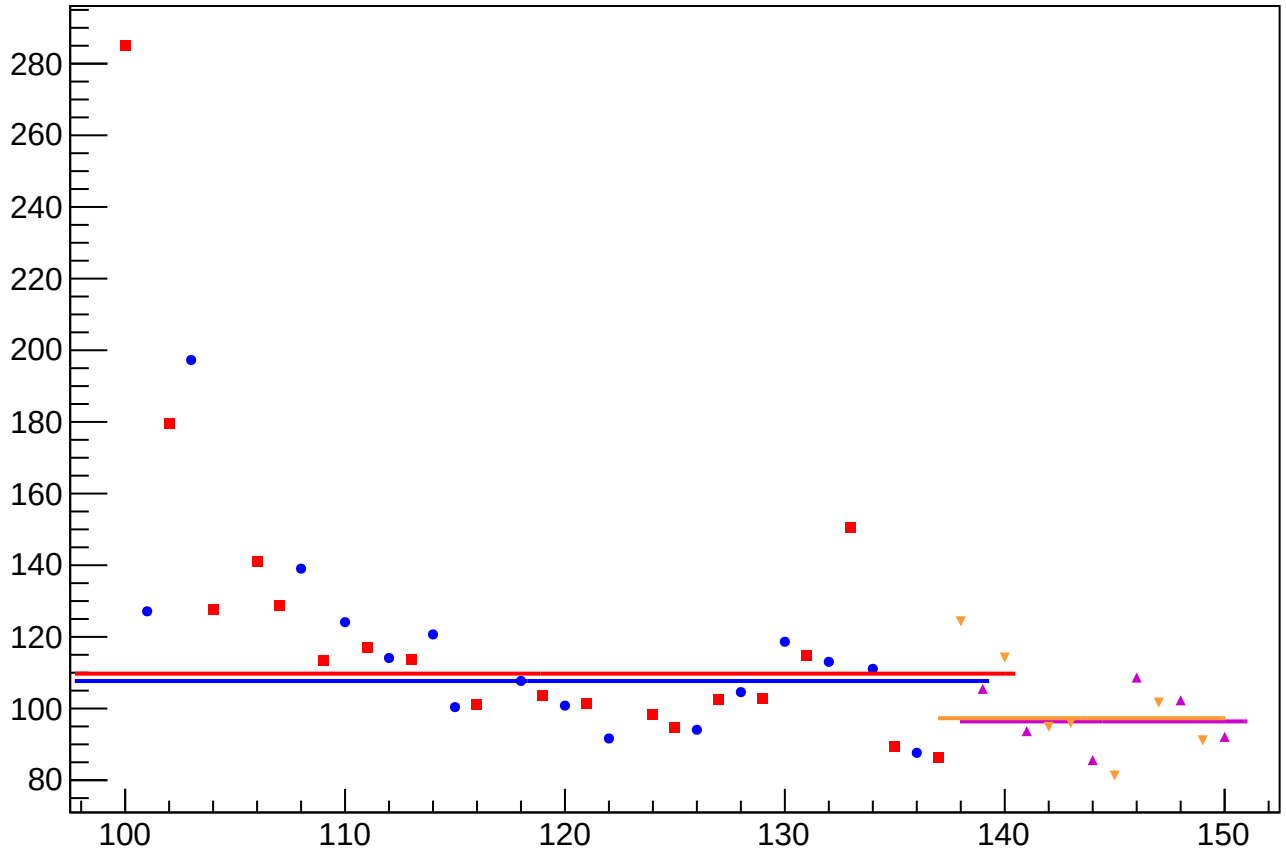
Left: 78.882+/-30.329 $\chi^2$/NDF: 9.6/12

Right: 43.058+/-29.255 $\chi^2$/NDF: 48.7/34

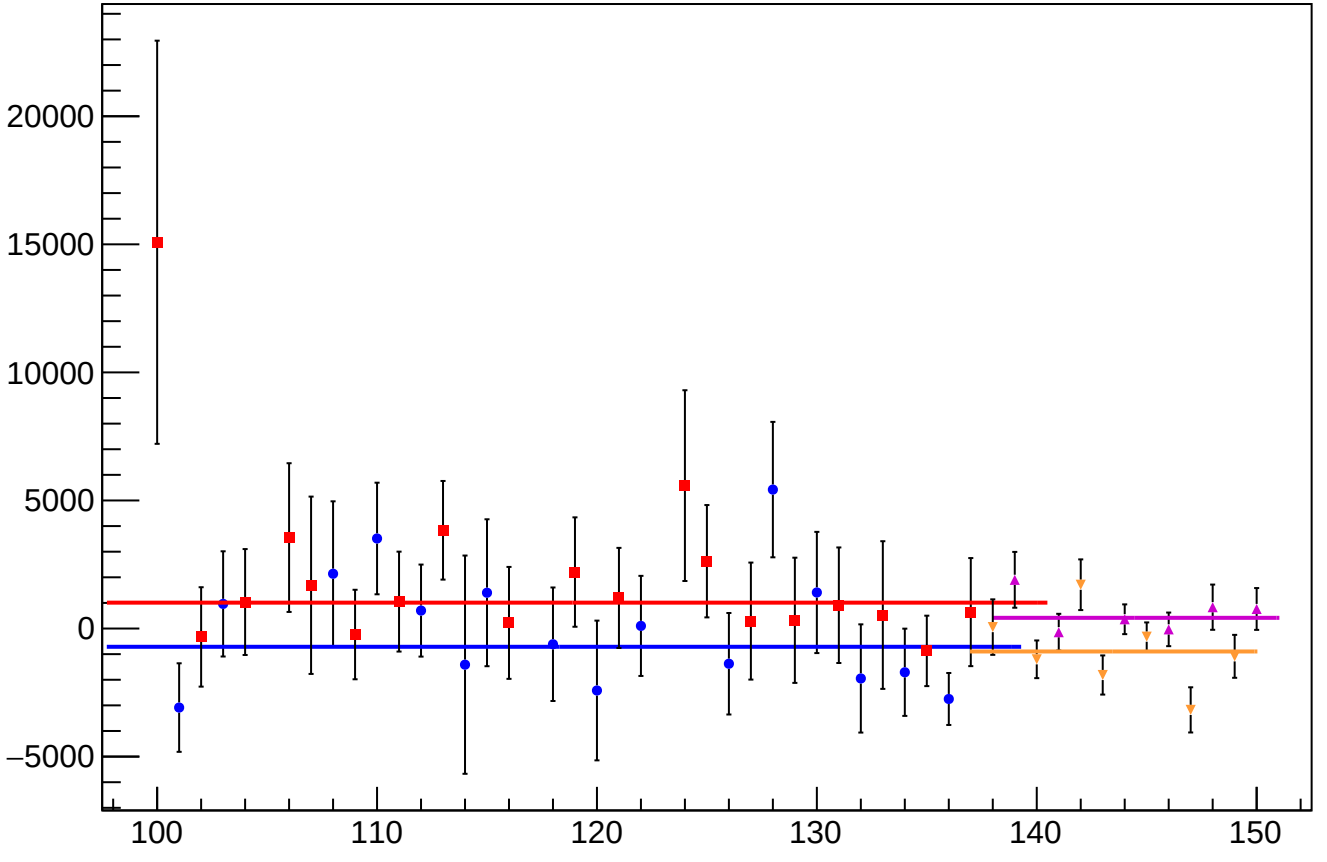
In: 56.864+/-29.699 $\chi^2$/NDF:28.8/21

Out: 63.822+/-29.857 $\chi^2$/NDF:30.2/25

All: 60.325+/-21.056 $\chi^2$/NDF: 59.0/47


eigen_dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected
280
260
240
220
200
180
160
140
120
100
80
100
110
120
130
140
150
Right In: 107.679+/-0.029 χ²/NDF: 483112.2/15
Left Out: 97.293+/-0.030 χ²/NDF:177298.6/6
Right Out: 109.739+/-0.029 χ²/NDF: 491784.5/18
Left In: 96.405+/-0.030 χ²/NDF:71352.9/5
Left: 96.847+/-0.021 χ²/NDF: 249080.5/12
Right: 108.701+/-0.021 χ²/NDF: 977375.0/34
In: 102.257+/-0.021 χ²/NDF:626418.5/21
Out: 103.726+/-0.021 χ²/NDF:755865.8/25
All: 102.988+/-0.015 χ²/NDF: 1384717.1/47

asym_sam_2468_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -712.881+/-493.252 $\chi^2$/NDF: 20.1/15

Left Out: -895.868+/-296.569 $\chi^2$/NDF:17.1/6

Right Out: 1010.556+/-501.373 $\chi^2$/NDF: 11.8/18

Left In: 417.942+/-303.509 $\chi^2$/NDF:3.3/5

Left: -254.154+/-212.117 $\chi^2$/NDF: 30.1/12

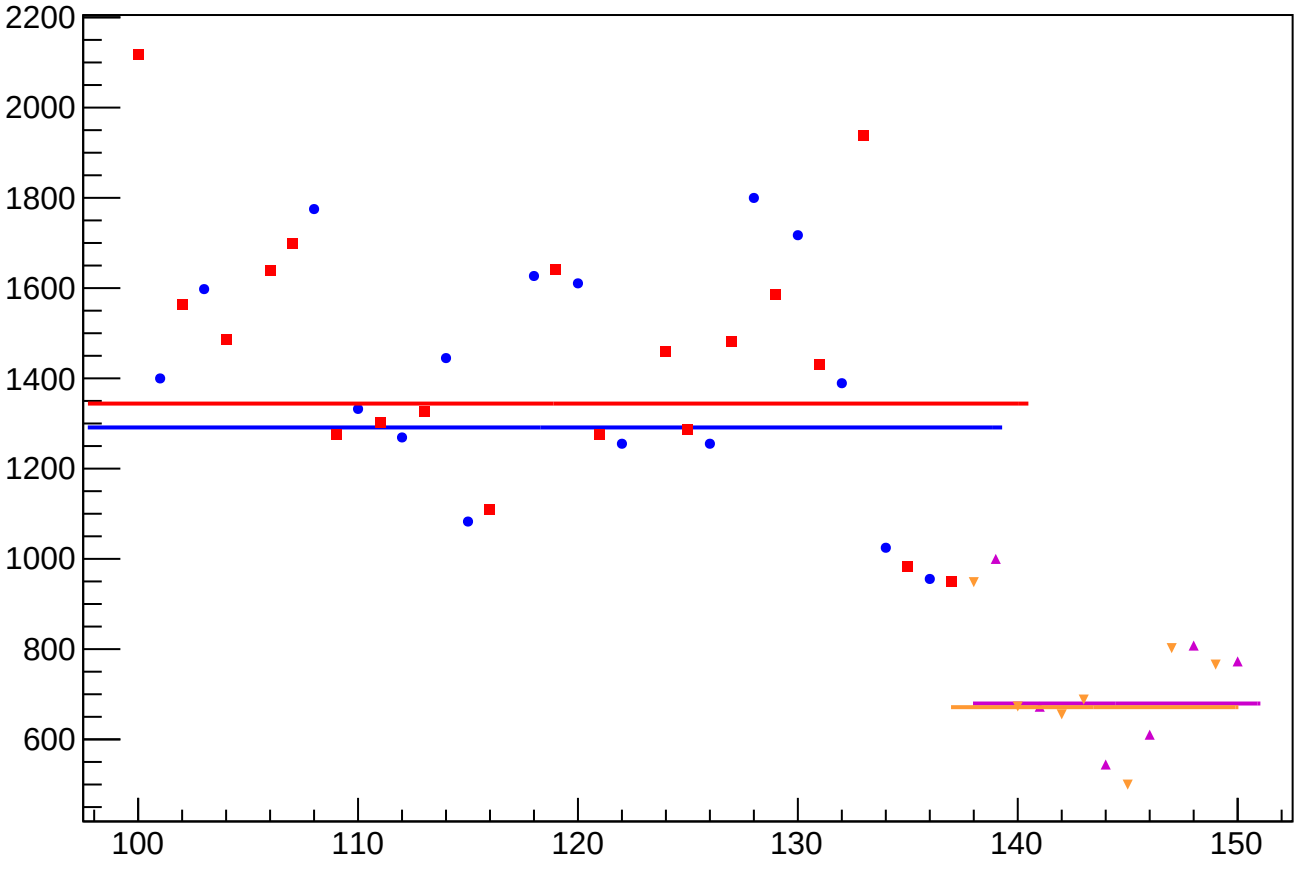
Right: 134.766+/-351.618 $\chi^2$/NDF: 37.9/34

In: 107.375+/-258.493 $\chi^2$/NDF:27.3/21

Out: -401.726+/-255.257 $\chi^2$/NDF:39.6/25

All: -150.382+/-181.627 $\chi^2$/NDF: 68.8/47

asym_sam_2468_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1291.220+/-0.349 $\chi^2$/NDF: 610894.9/15

Left Out: 671.378+/-0.210 $\chi^2$/NDF:391648.1/6

Right Out: 1344.115+/-0.355 $\chi^2$/NDF: 490963.4/18

Left In: 679.491+/-0.215 $\chi^2$/NDF:372044.5/5

Left: 675.341+/-0.150 $\chi^2$/NDF: 764423.8/12

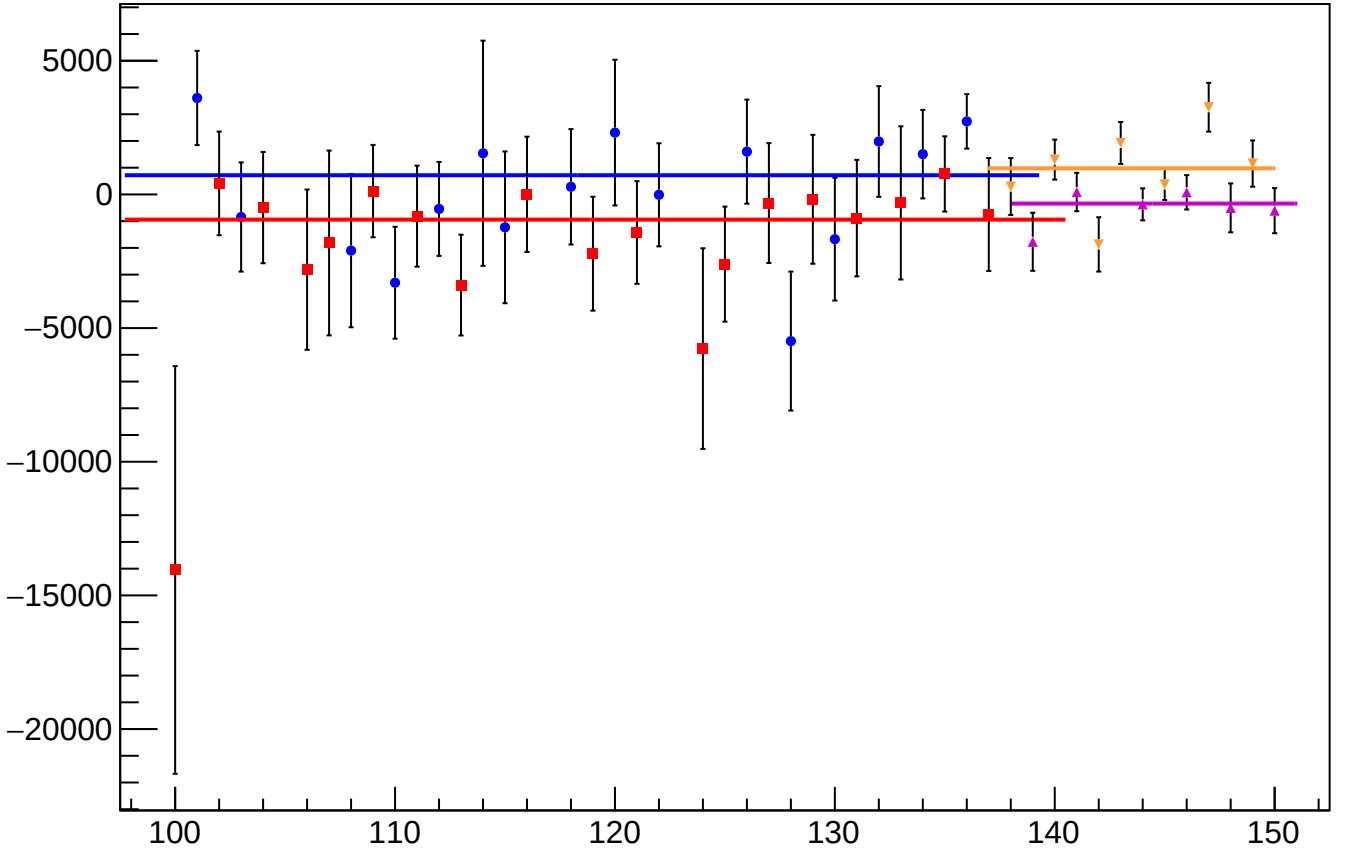
Right: 1317.235+/-0.249 $\chi^2$/NDF: 1113170.2/34

In: 847.495+/-0.183 $\chi^2$/NDF:3214279.7/21

Out: 845.750+/-0.180 $\chi^2$/NDF:3550092.8/25

All: 846.612+/-0.128 $\chi^2$/NDF: 6764418.6/47

# asym_sam_2468_avg_mean vs Slug, Sign Corrected




Right In: 717.617+/-488.239 $\chi^2$/NDF: 21.0/15

Left Out: 976.347+/-305.575 $\chi^2$/NDF:17.3/6

Right Out: -942.308+/-498.052 $\chi^2$/NDF: 10.6/18

Left In: -342.490+/-307.337 $\chi^2$/NDF:2.7/5

Left: 320.721+/-216.694 $\chi^2$/NDF: 29.2/12

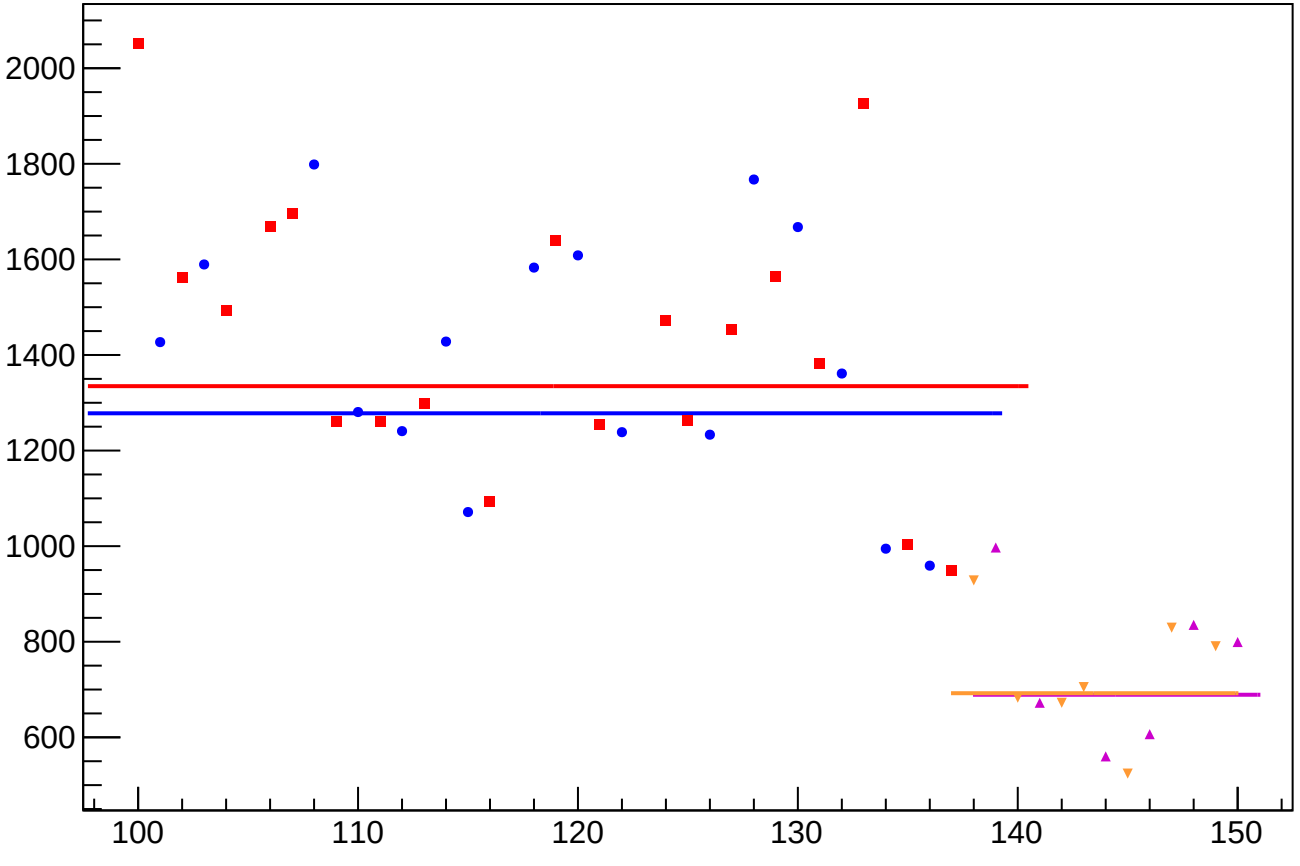
Right: -95.832+/-348.655 $\chi^2$/NDF: 37.2/34

In: -41.638+/-260.096 $\chi^2$/NDF:27.0/21

Out: 451.627+/-260.459 $\chi^2$/NDF:38.6/25

All: 204.650+/-184.044 $\chi^2$/NDF: 67.4/47

# asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 1277.979+/-0.345 $\chi^2$/NDF: 597666.8/15

Left Out: 692.307+/-0.216 $\chi^2$/NDF:335458.3/6

Right Out: 1334.775+/-0.352 $\chi^2$/NDF: 471897.2/18

Left In: 689.078+/-0.217 $\chi^2$/NDF:372927.7/5

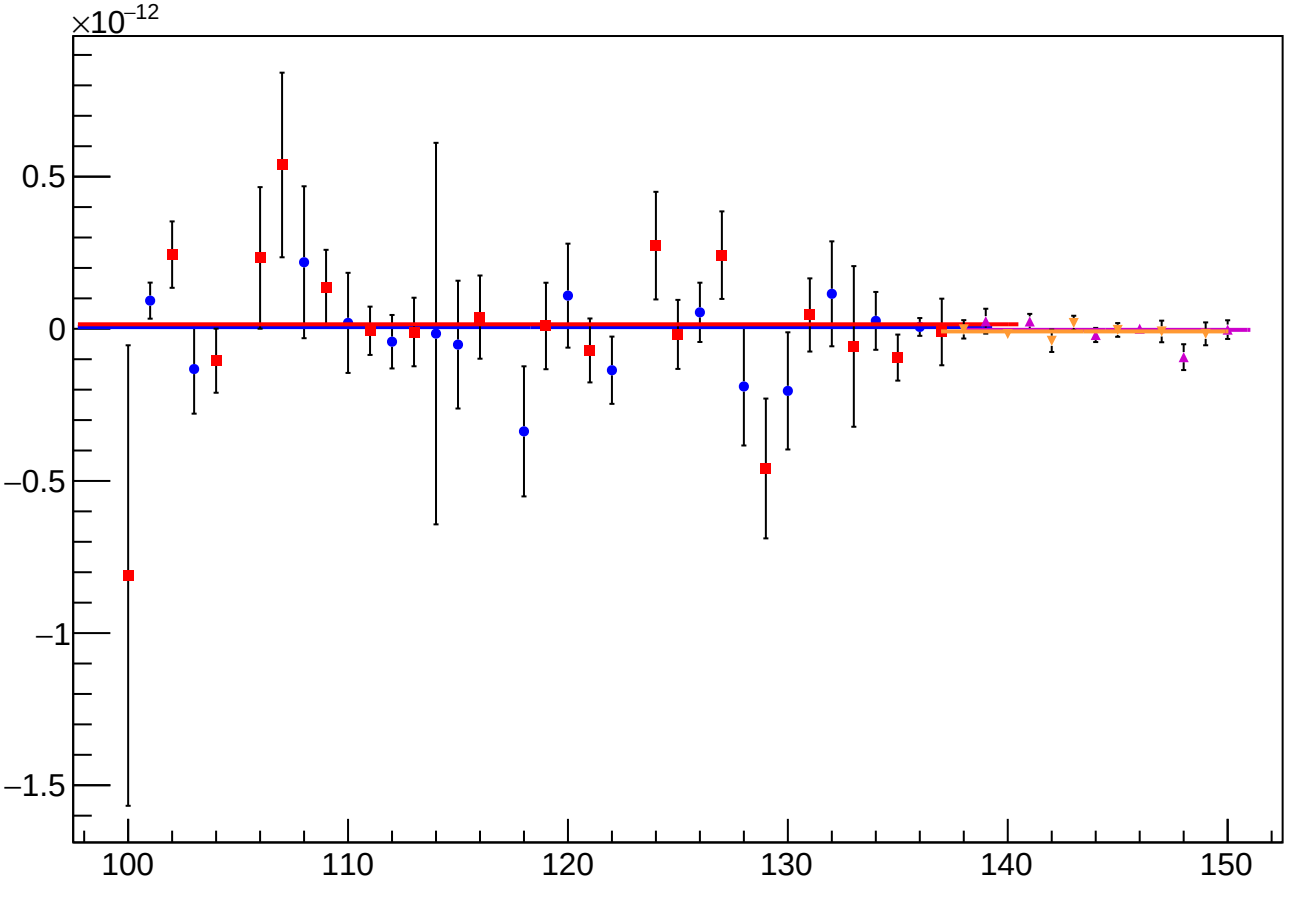
Left: 690.702+/-0.153 $\chi^2$/NDF: 708496.9/12

Right: 1305.812+/-0.247 $\chi^2$/NDF: 1082827.2/34

In: 856.205+/-0.184 $\chi^2$/NDF:3054544.8/21

Out: 868.012+/-0.184 $\chi^2$/NDF:3225205.6/25

All: 862.100+/-0.130 $\chi^2$/NDF: 6281808.2/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.8/5

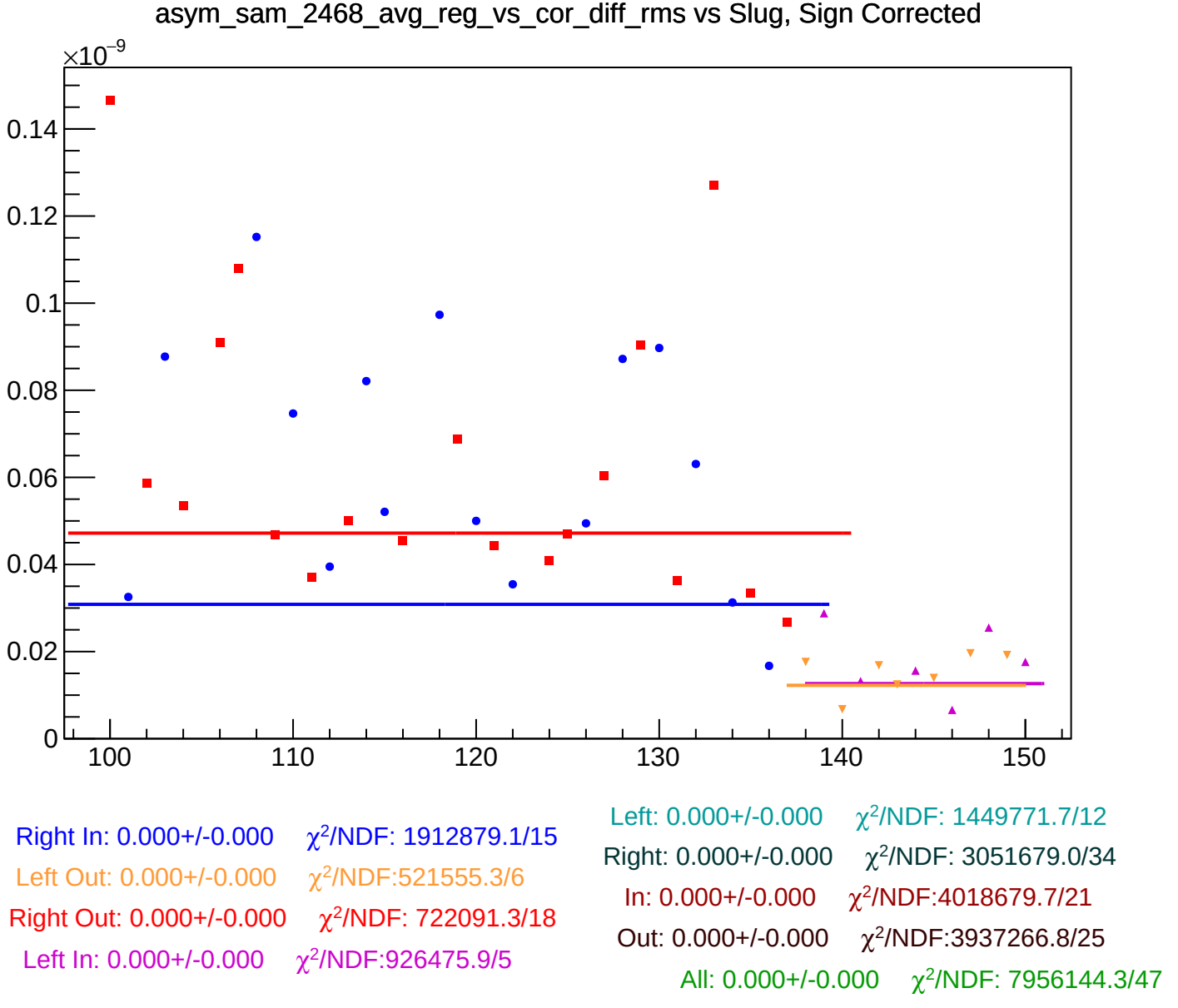
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.5/34

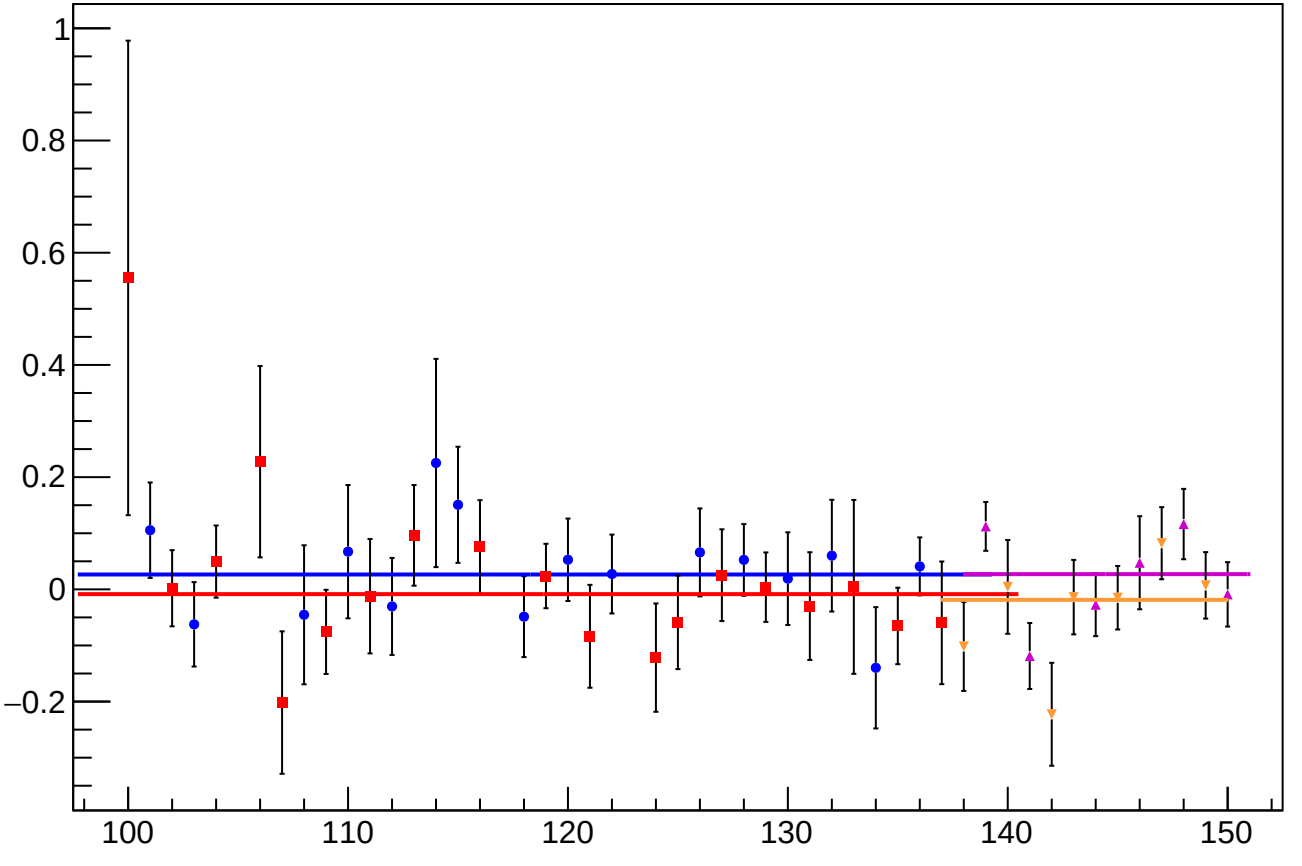
In: -0.000+/-0.000 $\chi^2$/NDF:18.6/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.9/25

All: -0.000+/-0.000 $\chi^2$/NDF: 45.6/47


asym_sam_2468_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1912879.1/15
Left Out: 0.000+/-0.000 χ²/NDF:521555.3/6
Right Out: 0.000+/-0.000 χ²/NDF: 722091.3/18
Left In: 0.000+/-0.000 χ²/NDF:926475.9/5
Left: 0.000+/-0.000 χ²/NDF: 1449771.7/12
Right: 0.000+/-0.000 χ²/NDF: 3051679.0/34
In: 0.000+/-0.000 χ²/NDF:4018679.7/21
Out: 0.000+/-0.000 χ²/NDF:3937266.8/25
All: 0.000+/-0.000 χ²/NDF: 7956144.3/47

asym_sam_2468_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.019+/-0.026 $\chi^2$/NDF:8.8/6

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.027+/-0.023 $\chi^2$/NDF:13.4/5

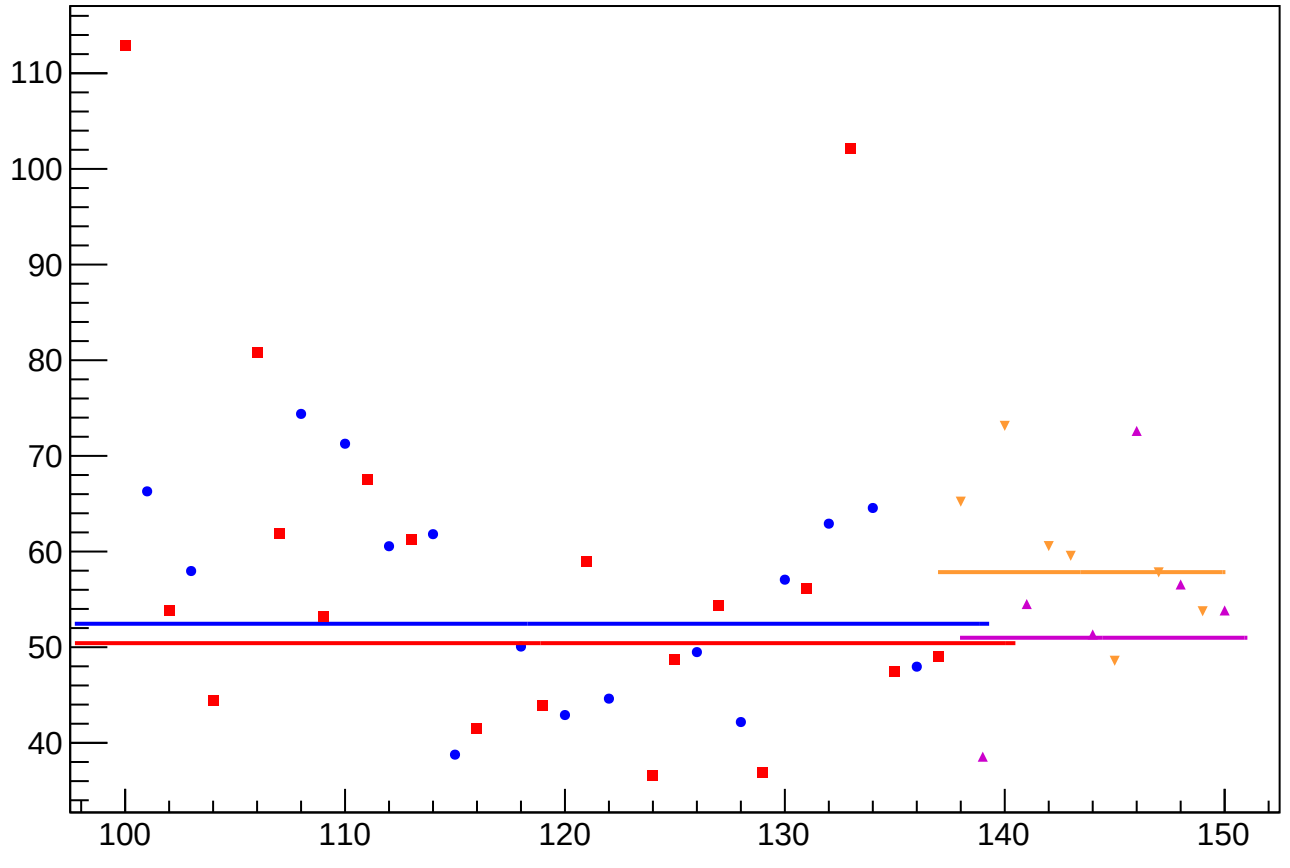
Left: 0.007+/-0.017 $\chi^2$/NDF: 23.9/12

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.027+/-0.015 $\chi^2$/NDF:23.3/21

Out: -0.012+/-0.016 $\chi^2$/NDF:22.8/25

All: 0.008+/-0.011 $\chi^2$/NDF: 49.3/47




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 57.848+/-0.018 $\chi^2$/NDF:150447.9/6

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 50.988+/-0.016 $\chi^2$/NDF:326827.7/5

Left: 54.056+/-0.012 $\chi^2$/NDF: 554680.0/12

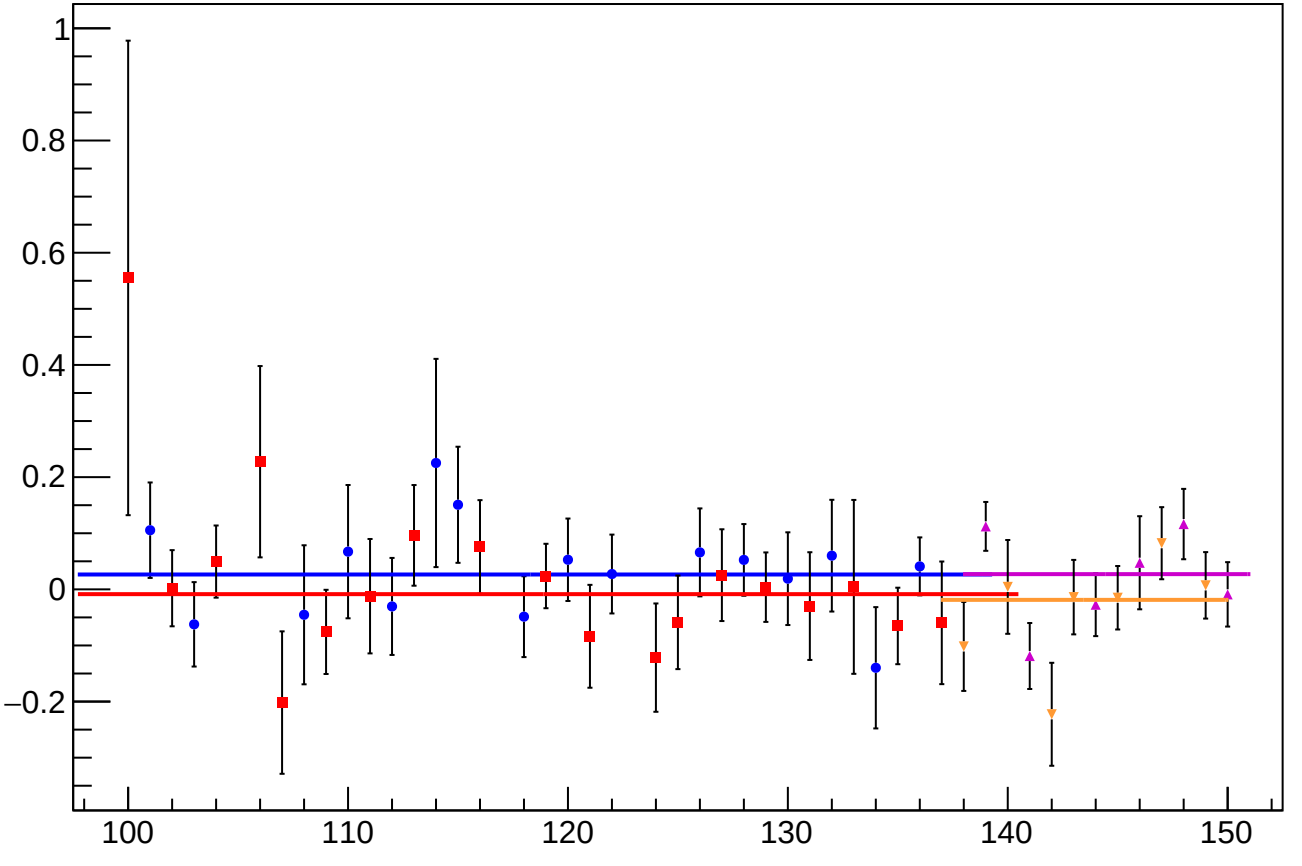
Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 51.817+/-0.011 $\chi^2$/NDF:749300.5/21

Out: 53.102+/-0.011 $\chi^2$/NDF:932061.3/25

All: 52.450+/-0.008 $\chi^2$/NDF: 1688268.7/47

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.019+/-0.026 $\chi^2$/NDF:8.8/6

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.027+/-0.023 $\chi^2$/NDF:13.4/5

Left: 0.007+/-0.017 $\chi^2$/NDF: 23.9/12

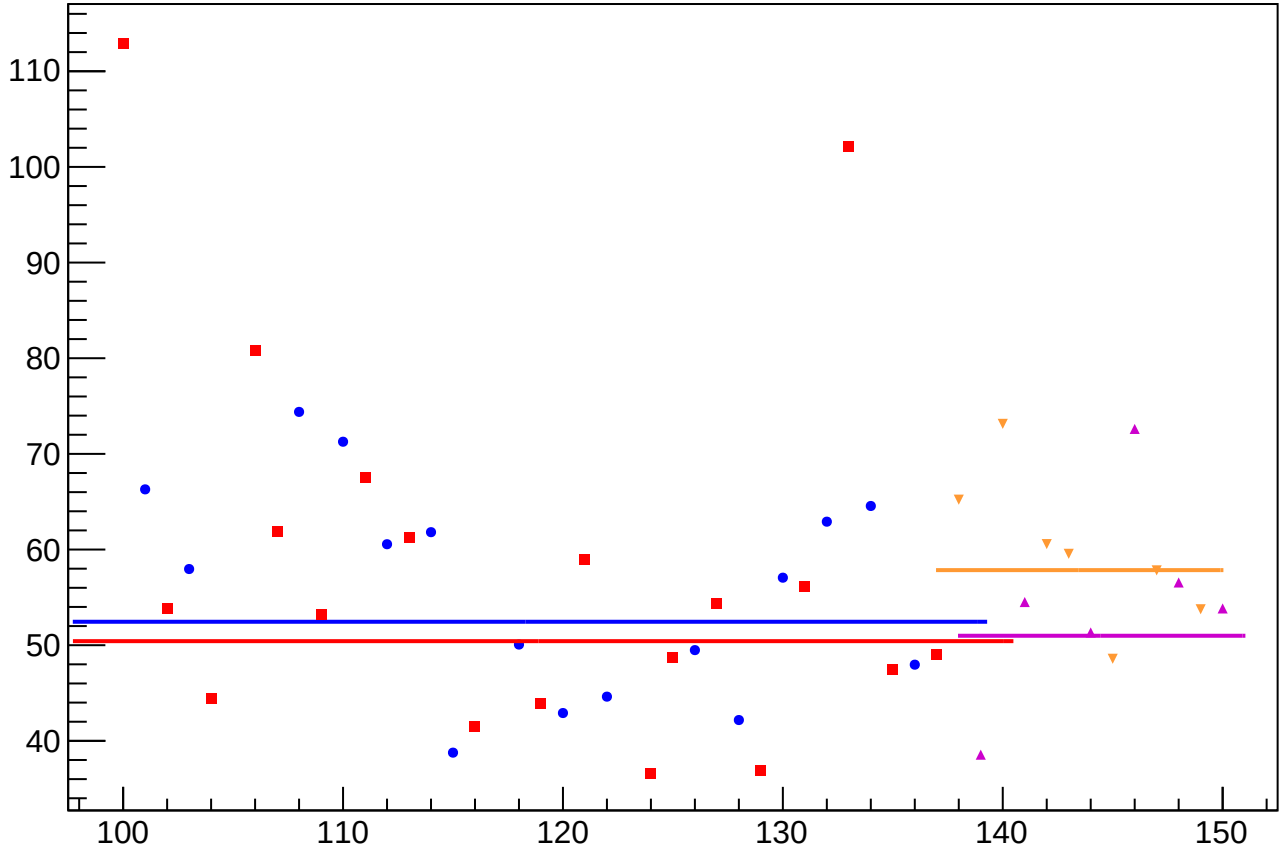
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.027+/-0.015 $\chi^2$/NDF:23.3/21

Out: -0.012+/-0.016 $\chi^2$/NDF:22.8/25

All: 0.008+/-0.011 $\chi^2$/NDF: 49.3/47

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 57.848+/-0.018 $\chi^2$/NDF:150447.9/6

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 50.988+/-0.016 $\chi^2$/NDF:326827.7/5

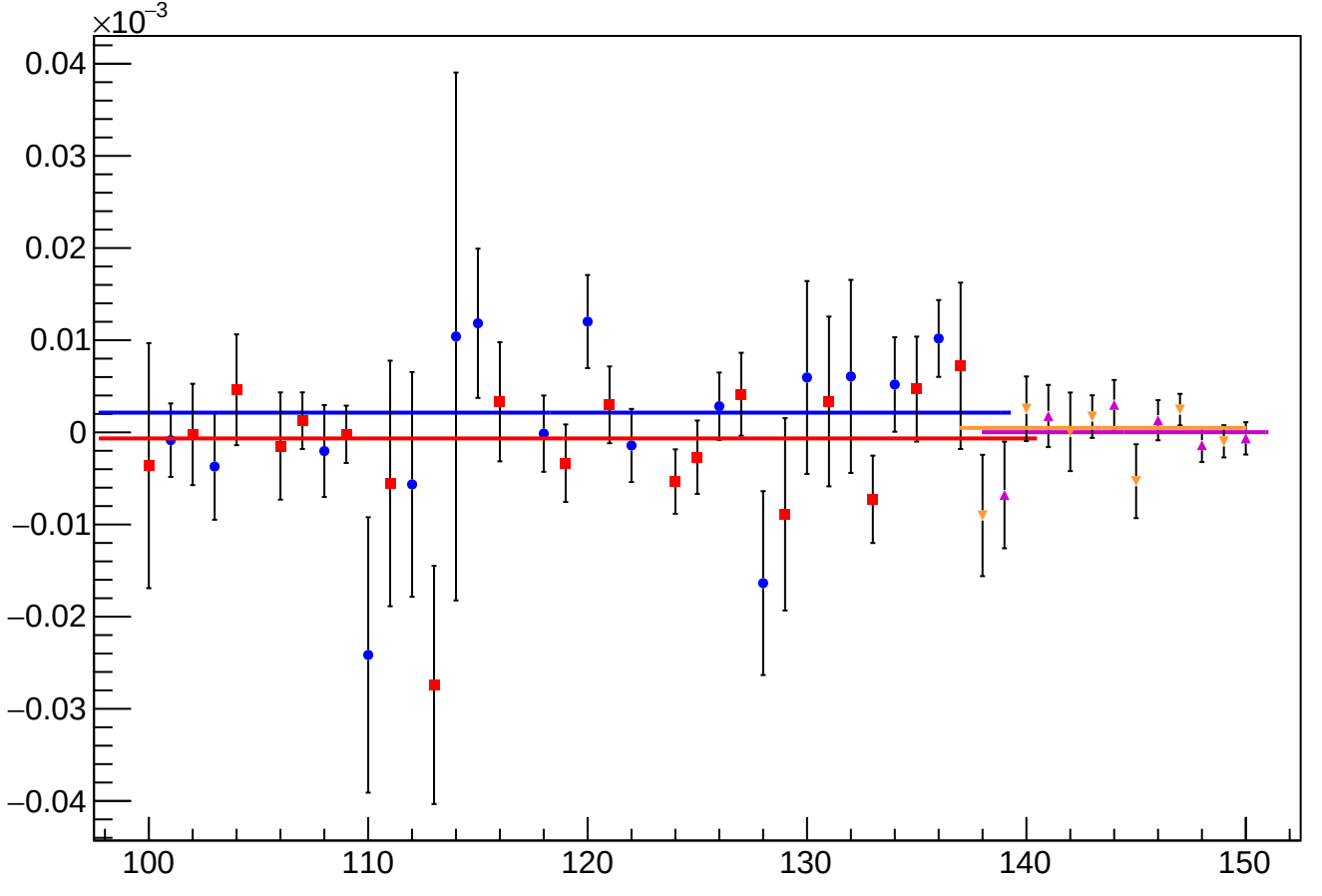
Left: 54.056+/-0.012 $\chi^2$/NDF: 554680.0/12

Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 51.817+/-0.011 $\chi^2$/NDF:749300.5/21

Out: 53.102+/-0.011 $\chi^2$/NDF:932061.3/25

All: 52.450+/-0.008 $\chi^2$/NDF: 1688268.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 10.9/12

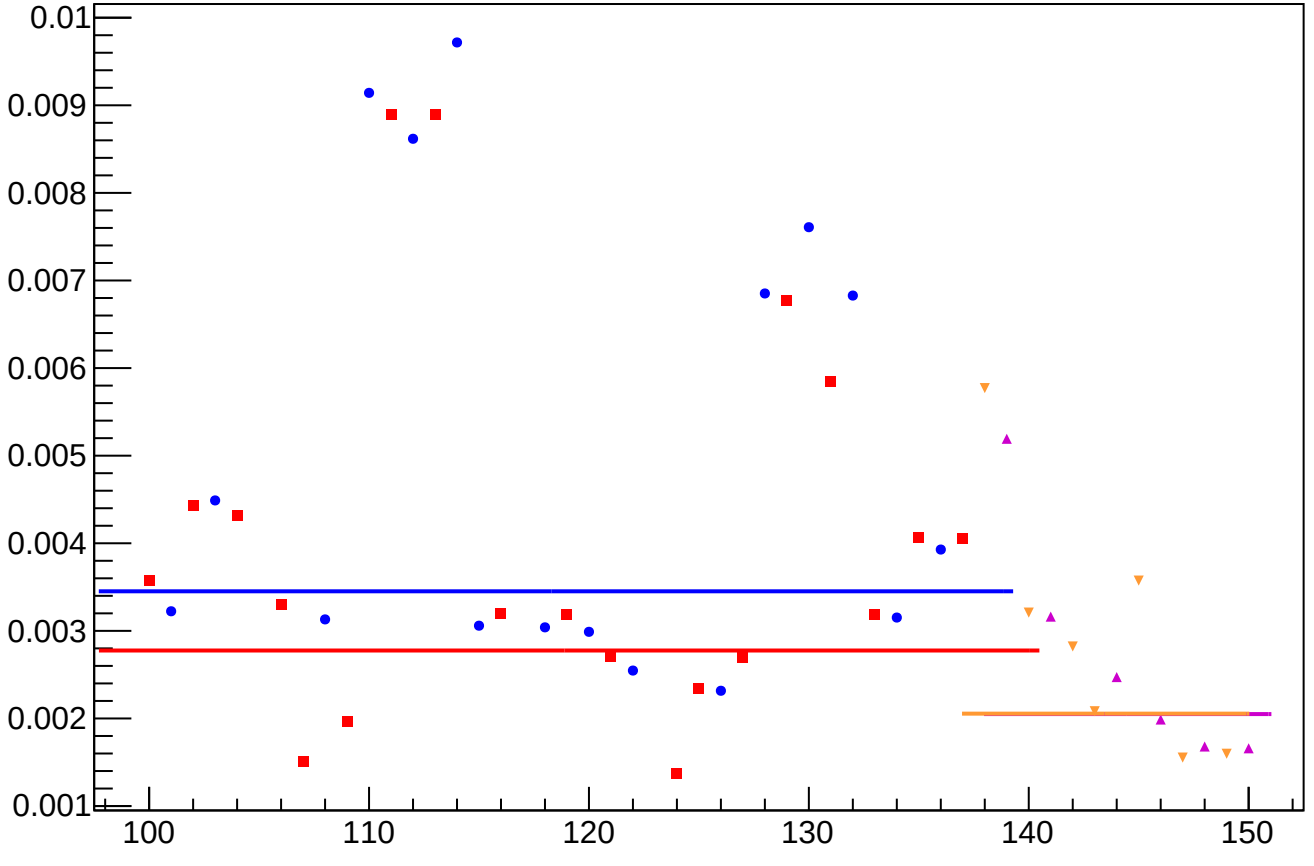
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.6/21

Out: 0.000+/-0.000 $\chi^2$/NDF:22.3/25

All: 0.000+/-0.000 $\chi^2$/NDF: 48.3/47

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1951102.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1515500.6/6

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2734939.6/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1039029.2/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 2554555.8/12

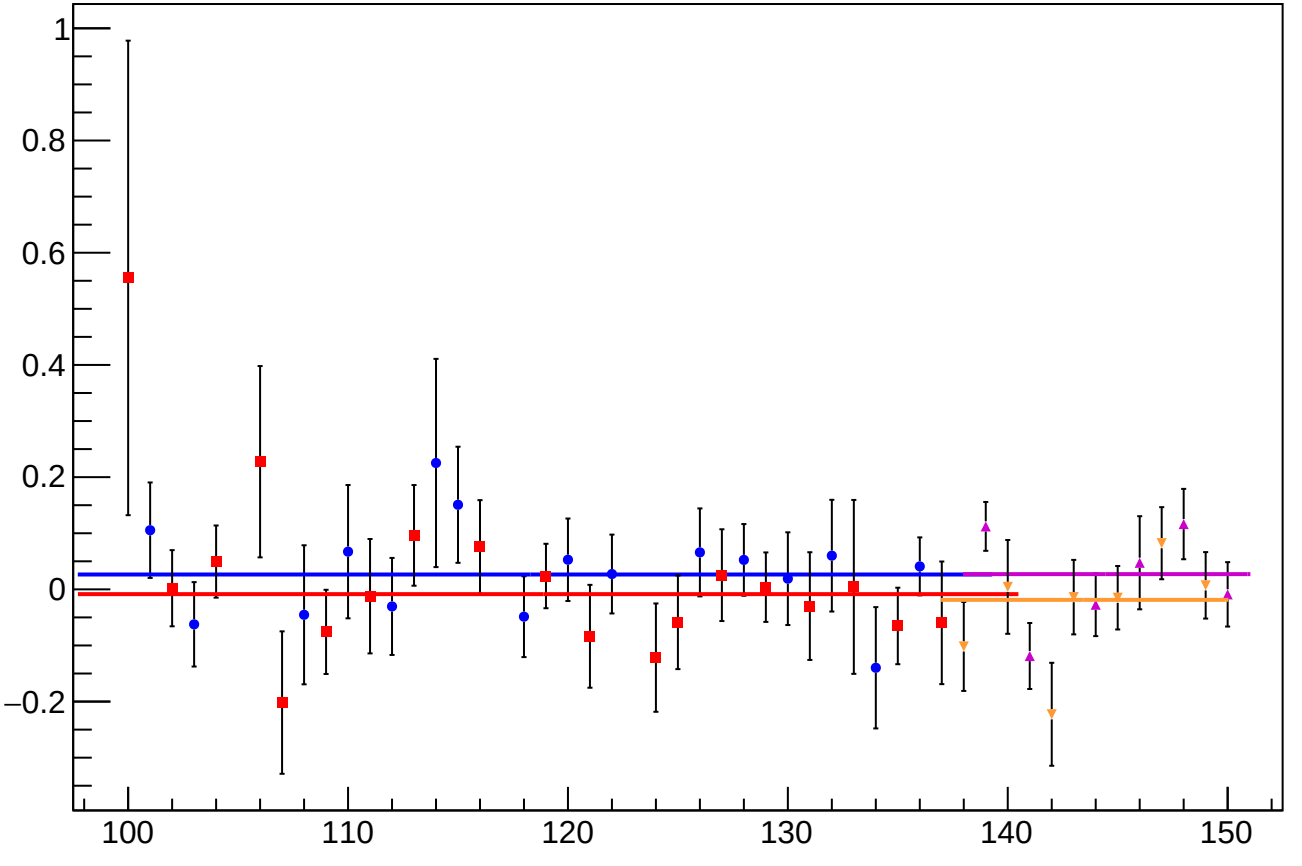
Right: 0.003+/-0.000 $\chi^2$/NDF: 4968092.4/34

In: 0.003+/-0.000 $\chi^2$/NDF:4374303.8/21

Out: 0.002+/-0.000 $\chi^2$/NDF:4713133.7/25

All: 0.002+/-0.000 $\chi^2$/NDF: 9126519.7/47

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.019+/-0.026 $\chi^2$/NDF:8.8/6

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.027+/-0.023 $\chi^2$/NDF:13.4/5

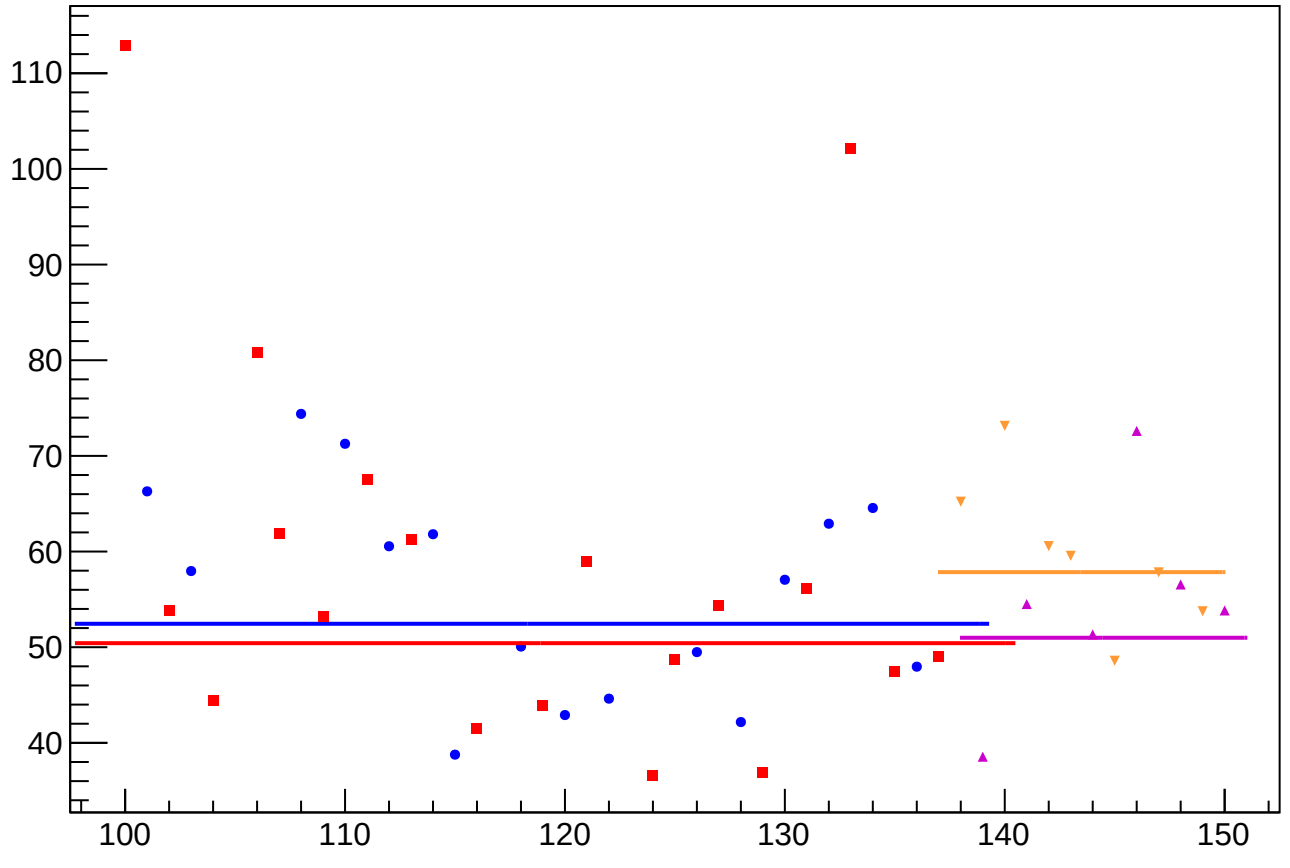
Left: 0.007+/-0.017 $\chi^2$/NDF: 23.9/12

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.027+/-0.015 $\chi^2$/NDF:23.3/21

Out: -0.012+/-0.016 $\chi^2$/NDF:22.8/25

All: 0.008+/-0.011 $\chi^2$/NDF: 49.3/47




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 57.849+/-0.018 $\chi^2$/NDF:150418.5/6

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 50.988+/-0.016 $\chi^2$/NDF:326872.1/5

Left: 54.057+/-0.012 $\chi^2$/NDF: 554707.6/12

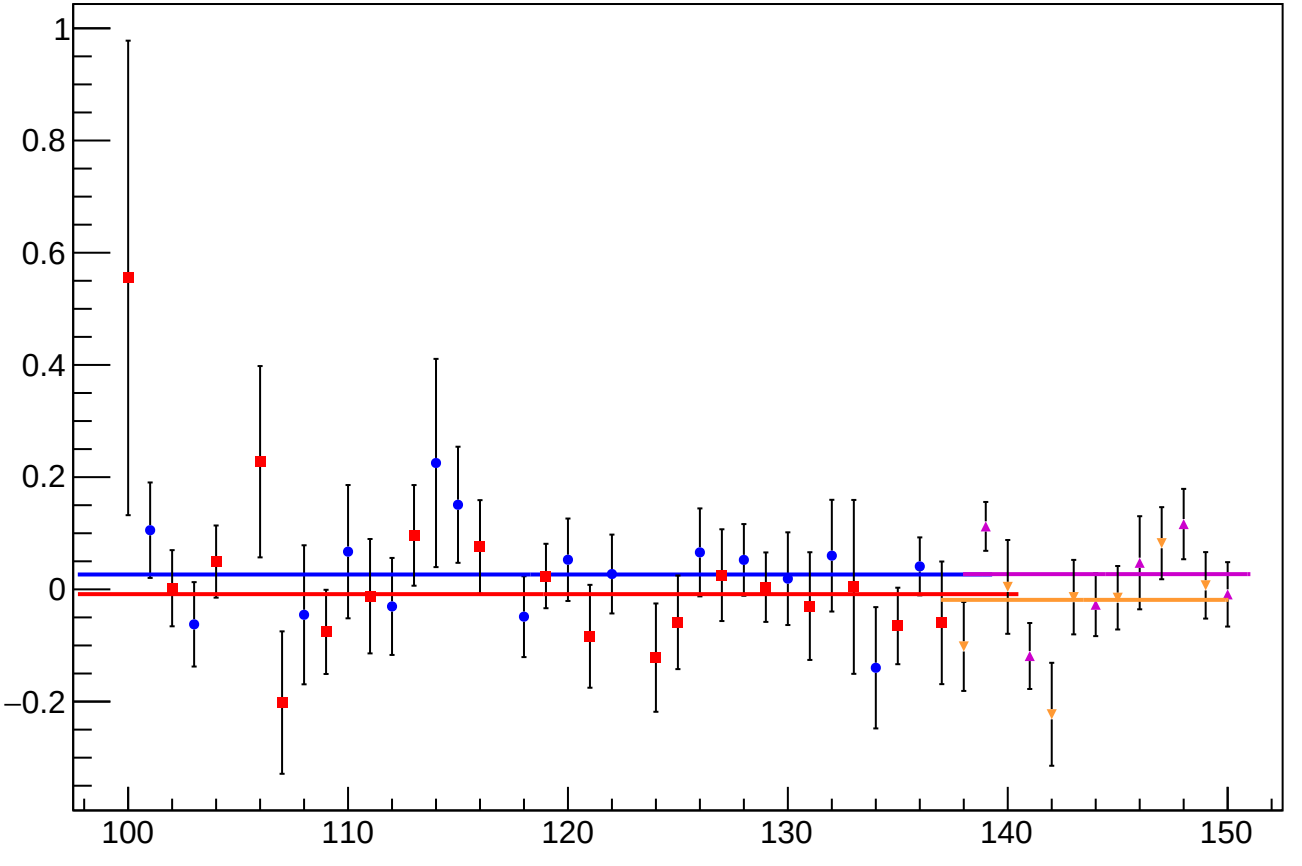
Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 51.816+/-0.011 $\chi^2$/NDF:749291.1/21

Out: 53.101+/-0.011 $\chi^2$/NDF:932086.2/25

All: 52.450+/-0.008 $\chi^2$/NDF: 1688284.7/47

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.019+/-0.026 $\chi^2$/NDF:8.8/6

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.027+/-0.023 $\chi^2$/NDF:13.4/5

Left: 0.007+/-0.017 $\chi^2$/NDF: 23.9/12

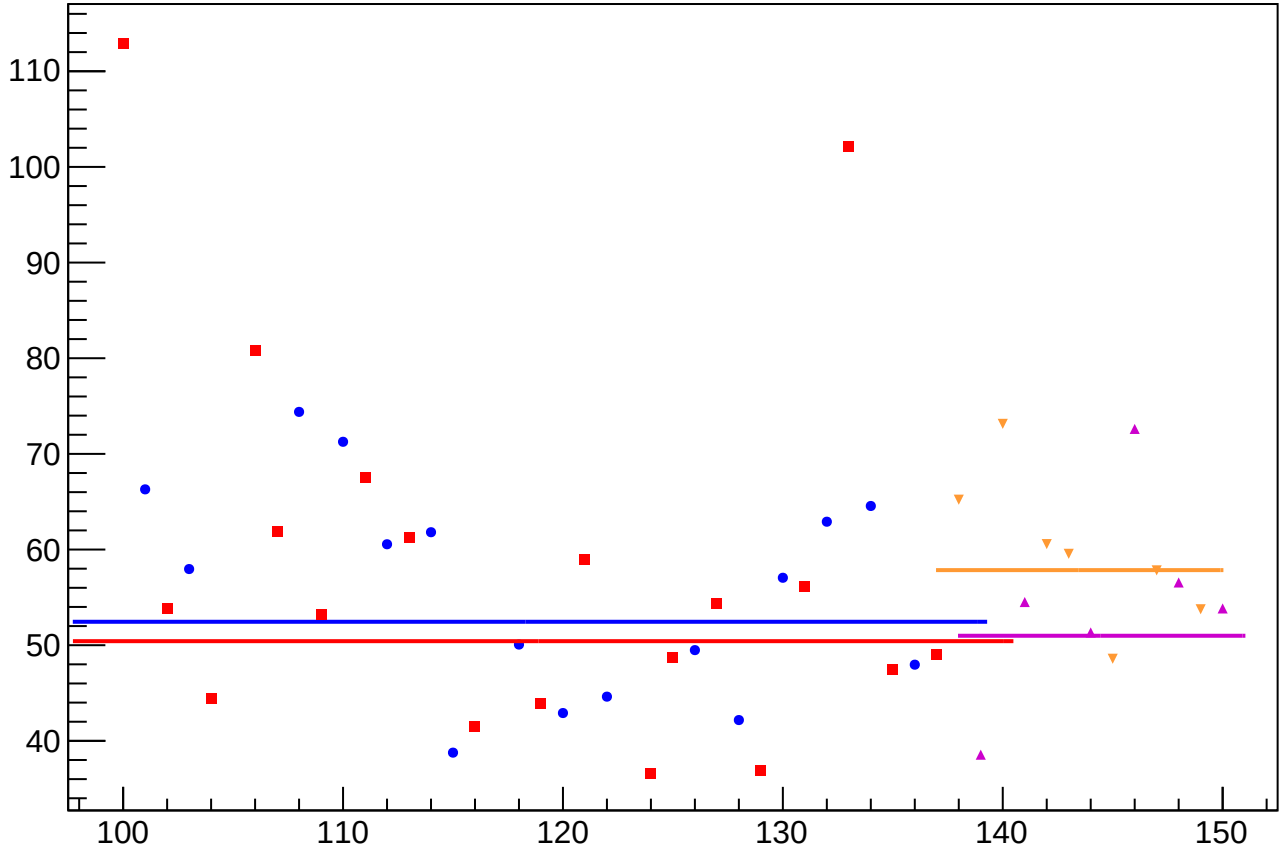
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.027+/-0.015 $\chi^2$/NDF:23.3/21

Out: -0.012+/-0.016 $\chi^2$/NDF:22.8/25

All: 0.008+/-0.011 $\chi^2$/NDF: 49.3/47

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 57.849+/-0.018 $\chi^2$/NDF:150418.5/6

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 50.988+/-0.016 $\chi^2$/NDF:326872.1/5

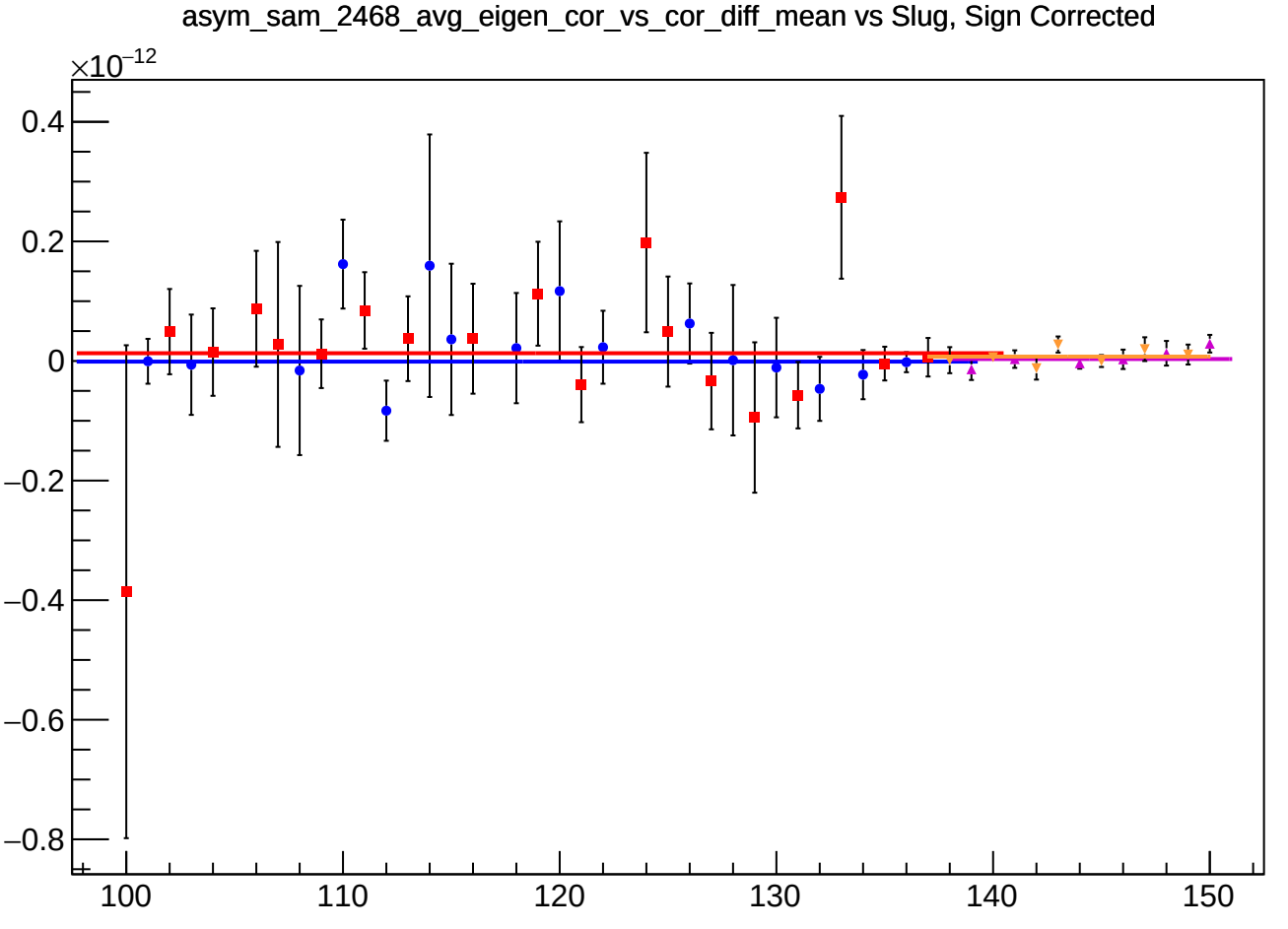
Left: 54.057+/-0.012 $\chi^2$/NDF: 554707.6/12

Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 51.816+/-0.011 $\chi^2$/NDF:749291.1/21

Out: 53.101+/-0.011 $\chi^2$/NDF:932086.2/25

All: 52.450+/-0.008 $\chi^2$/NDF: 1688284.7/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.4/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.8/5

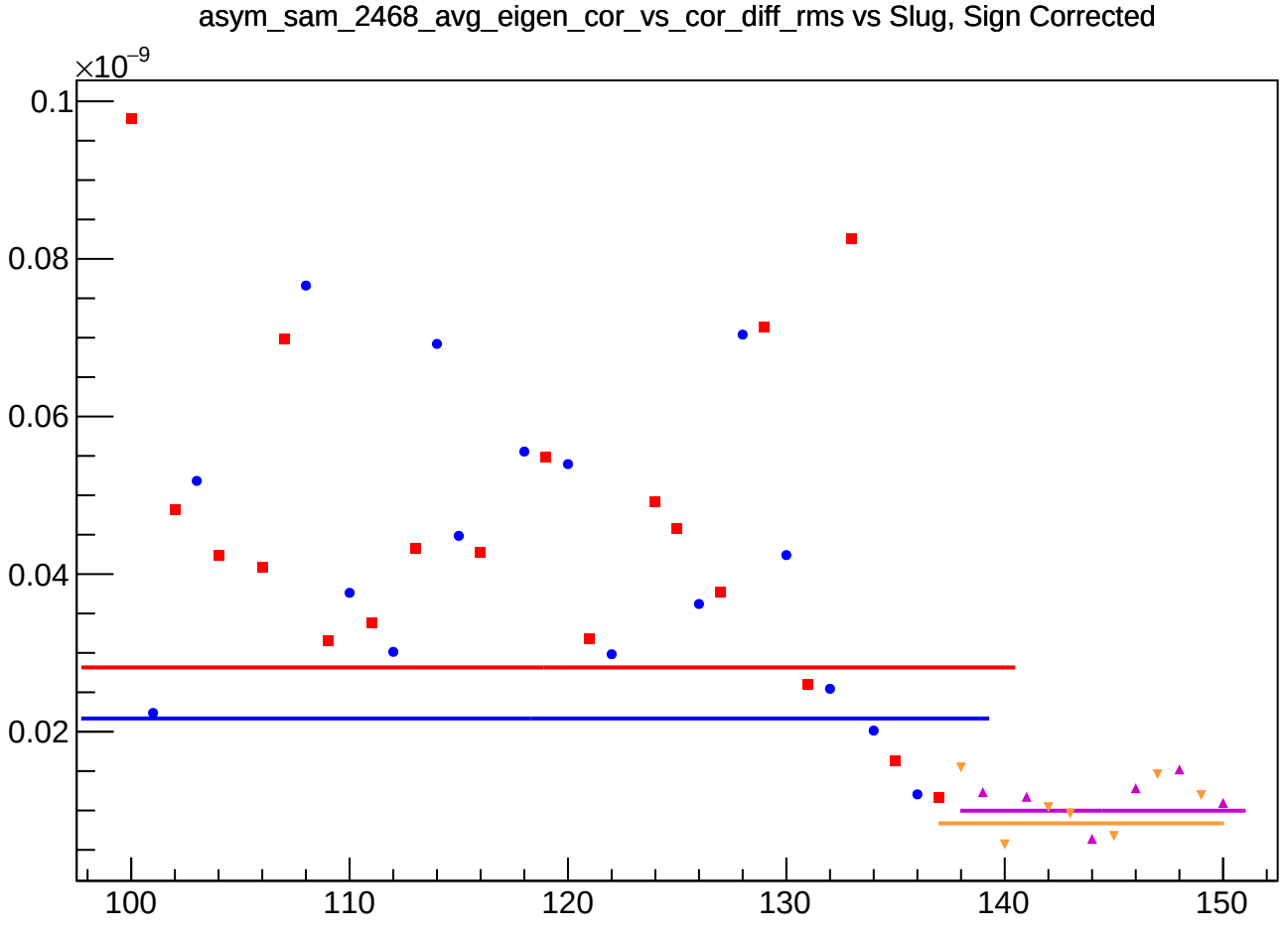
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 25.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.1/21

Out: 0.000+/-0.000 $\chi^2$/NDF:18.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 34.9/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2522749.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:805560.9/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2381736.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:574217.3/5

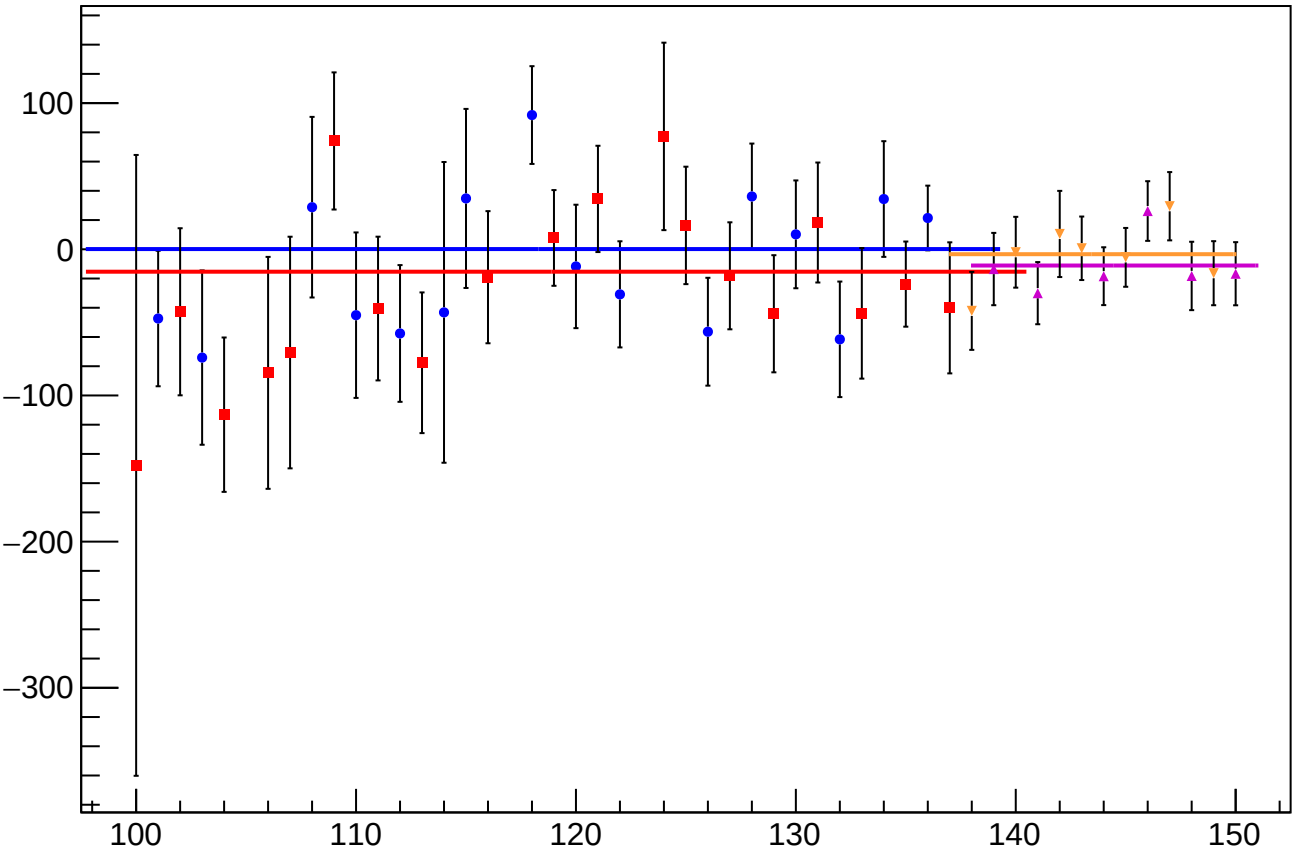
Left: 0.000+/-0.000 $\chi^2$/NDF: 1470176.4/12

Right: 0.000+/-0.000 $\chi^2$/NDF: 5141383.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4652621.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:6526072.0/25

All: 0.000+/-0.000 $\chi^2$/NDF: 11303291.1/47




Right In: 0.155+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: -3.354+/-8.851 $\chi^2$/NDF:4.7/6

Right Out: -15.333+/-10.267 $\chi^2$/NDF: 17.9/18

Left In: -11.105+/-8.848 $\chi^2$/NDF:4.4/5

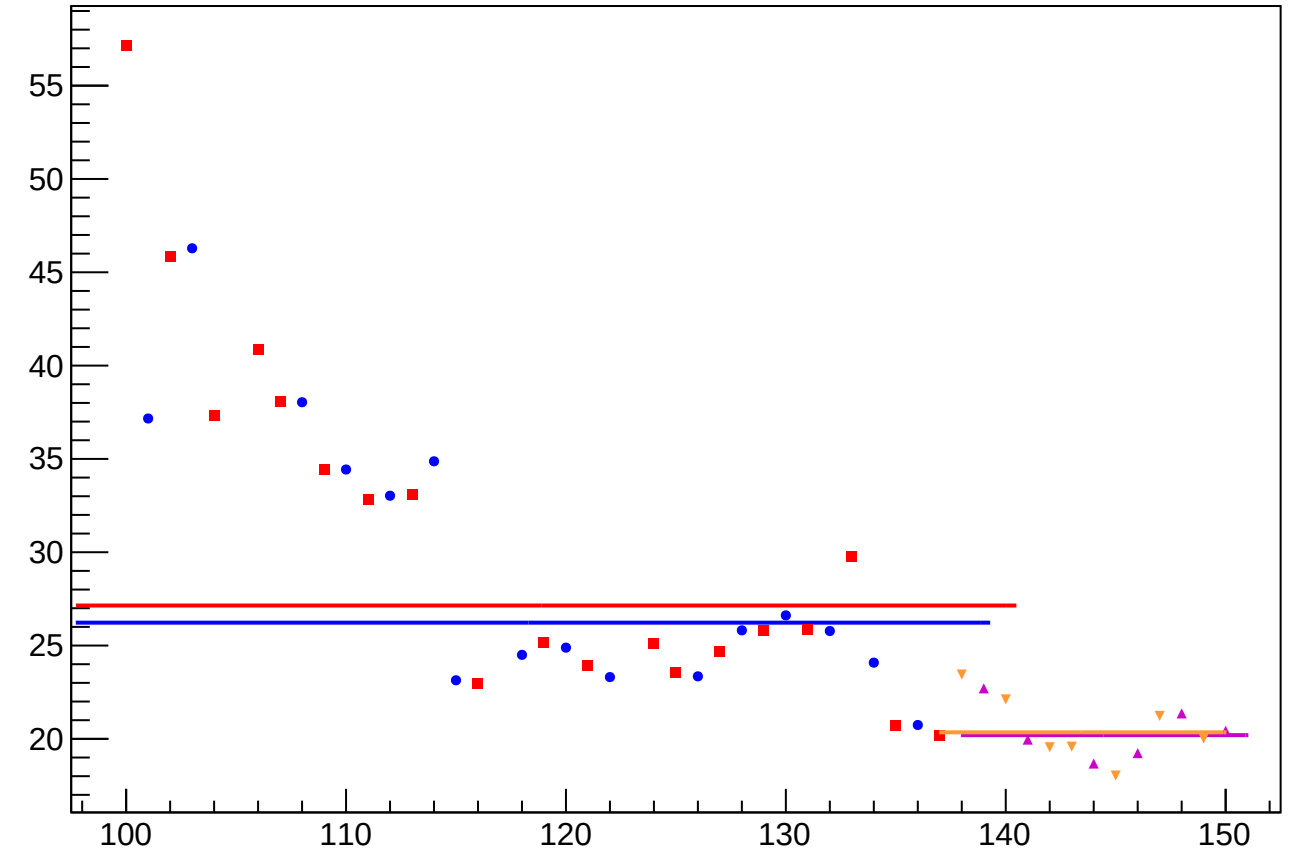
Left: -7.231+/-6.257 $\chi^2$/NDF: 9.5/12

Right: -7.422+/-7.181 $\chi^2$/NDF: 40.4/34

In: -6.187+/-6.640 $\chi^2$/NDF:26.5/21

Out: -8.461+/-6.704 $\chi^2$/NDF:23.4/25

All: -7.313+/-4.718 $\chi^2$/NDF: 50.0/47




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676026.2/15

Left Out: 20.351+/-0.006 $\chi^2$/NDF:71301.1/6

Right Out: 27.145+/-0.007 $\chi^2$/NDF: 755419.8/18

Left In: 20.200+/-0.006 $\chi^2$/NDF:42279.1/5

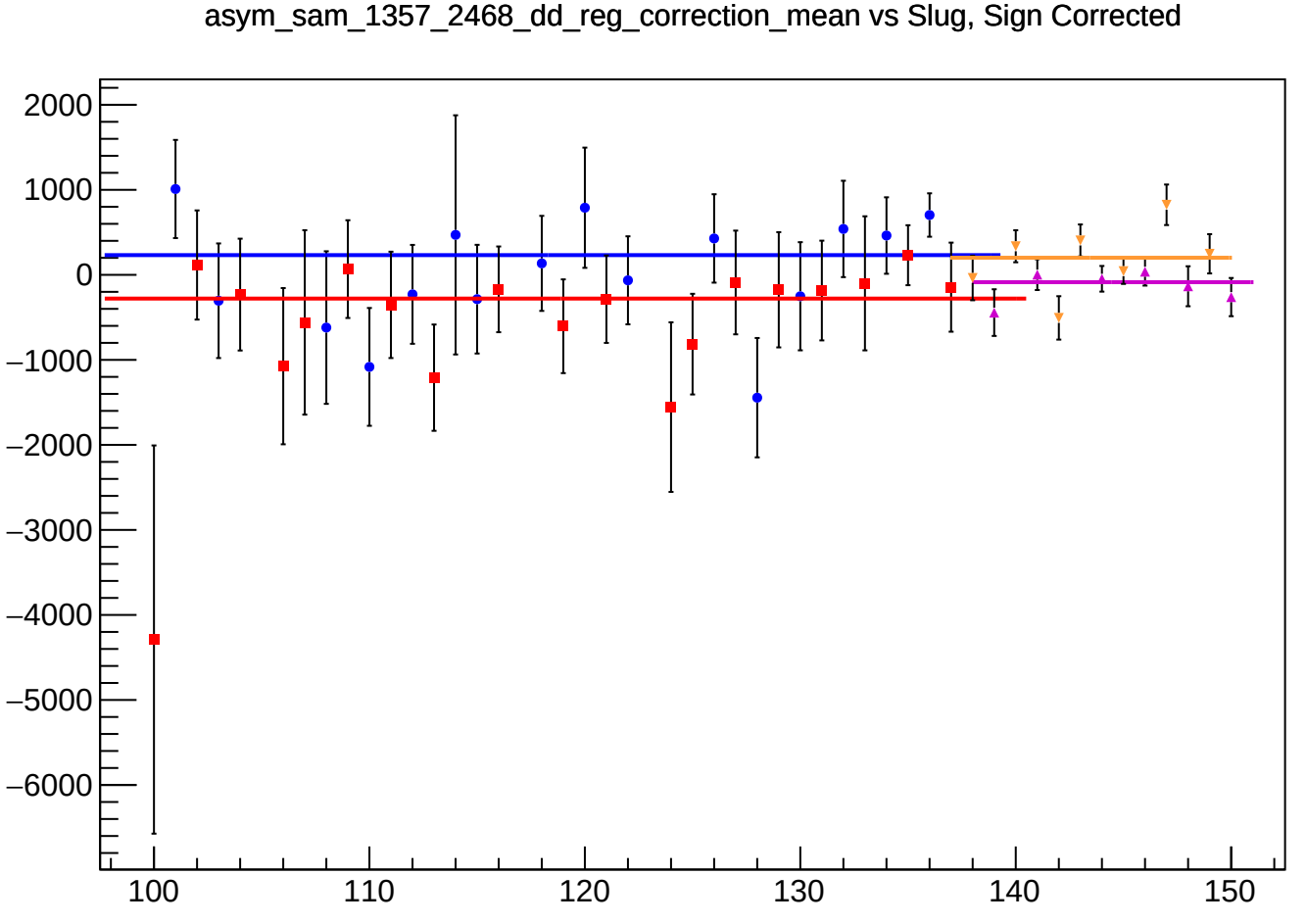
Left: 20.276+/-0.004 $\chi^2$/NDF: 113872.2/12

Right: 26.676+/-0.005 $\chi^2$/NDF: 1439621.2/34

In: 22.832+/-0.005 $\chi^2$/NDF:1123614.6/21

Out: 23.248+/-0.005 $\chi^2$/NDF:1329152.3/25

All: 23.038+/-0.003 $\chi^2$/NDF: 2456644.1/47




Right In: 232.092+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 201.306+/-77.330 $\chi^2$/NDF:18.2/6

Right Out: -279.042+/-139.965 $\chi^2$/NDF: 12.1/18

Left In: -86.374+/-78.401 $\chi^2$/NDF:3.2/5

Left: 59.445+/-55.056 $\chi^2$/NDF: 28.2/12

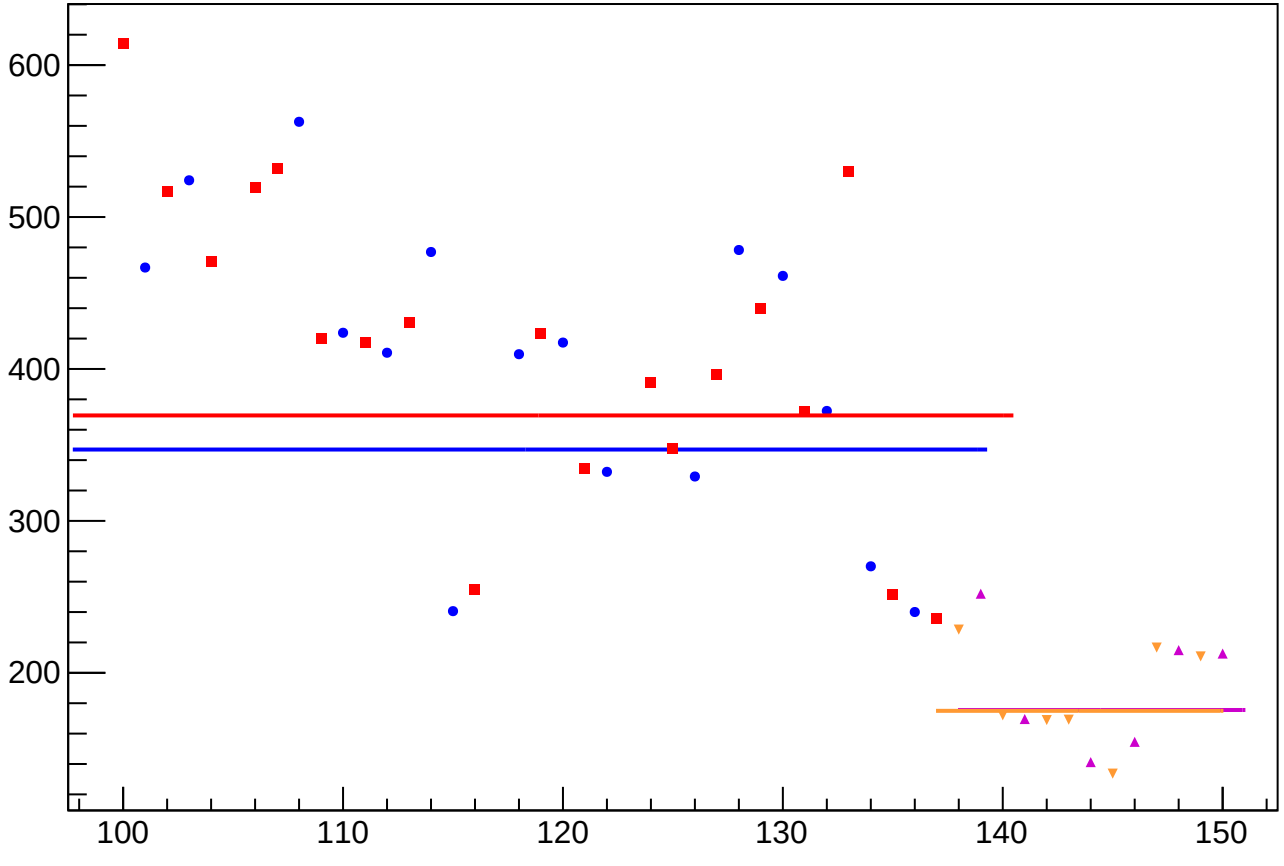
Right: -14.004+/-97.119 $\chi^2$/NDF: 38.6/34

In: -5.939+/-67.781 $\chi^2$/NDF:27.0/21

Out: 88.970+/-67.686 $\chi^2$/NDF:39.3/25

All: 41.582+/-47.895 $\chi^2$/NDF: 67.3/47

asym_sam_1357_2468_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058029.4/15

Left Out: 174.989+/-0.055 $\chi^2$/NDF:348277.5/6

Right Out: 369.410+/-0.099 $\chi^2$/NDF: 918852.6/18

Left In: 175.541+/-0.055 $\chi^2$/NDF:404491.8/5

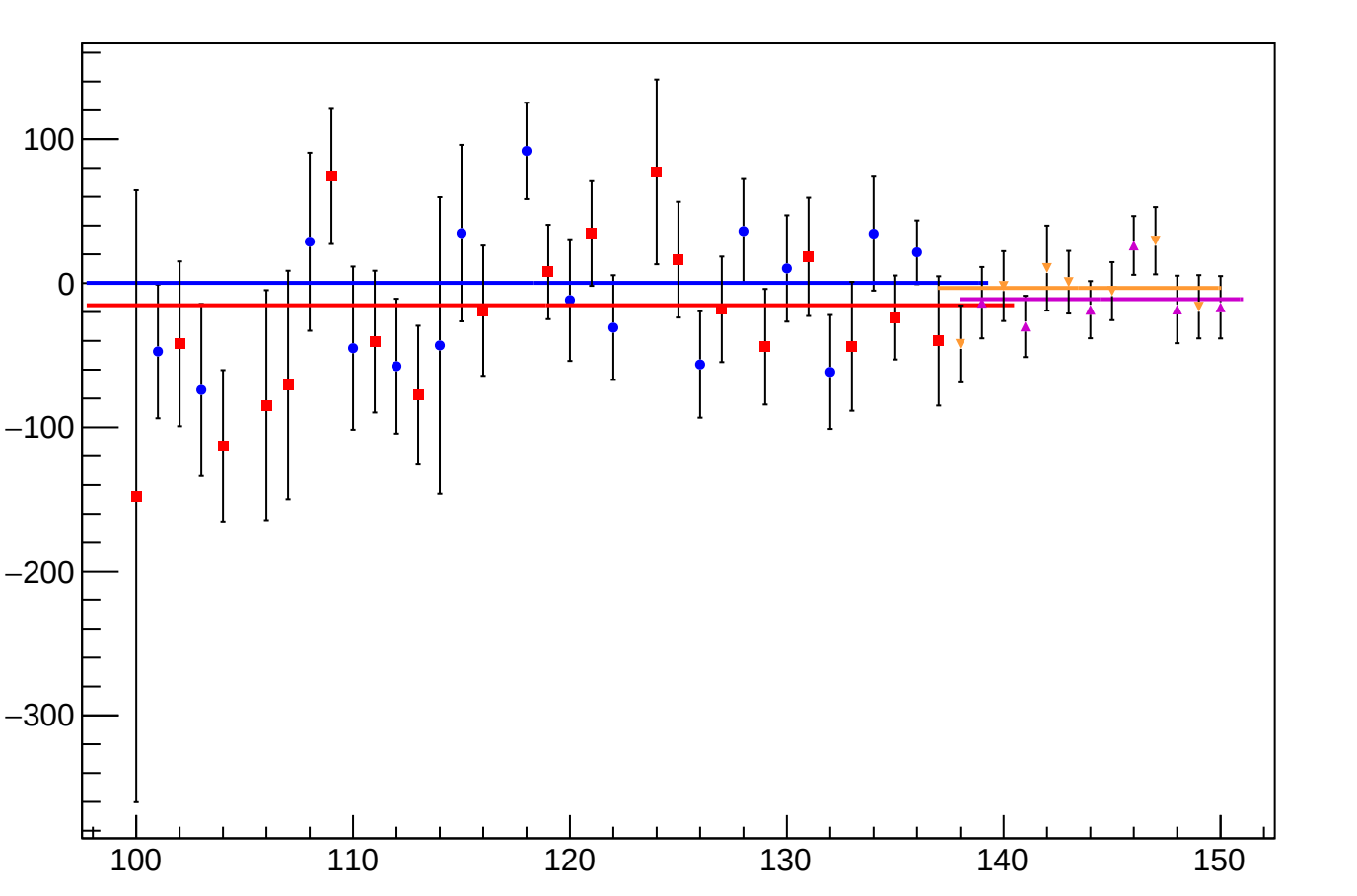
Left: 175.261+/-0.039 $\chi^2$/NDF: 752819.5/12

Right: 357.774+/-0.069 $\chi^2$/NDF: 2003541.6/34

In: 218.839+/-0.048 $\chi^2$/NDF:3877580.4/21

Out: 220.457+/-0.048 $\chi^2$/NDF:4223664.1/25

All: 219.649+/-0.034 $\chi^2$/NDF: 8101815.7/47




Right In: 0.157+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: -3.357+/-8.851 $\chi^2$/NDF:4.7/6

Right Out: -15.292+/-10.269 $\chi^2$/NDF: 17.9/18

Left In: -11.106+/-8.848 $\chi^2$/NDF:4.4/5

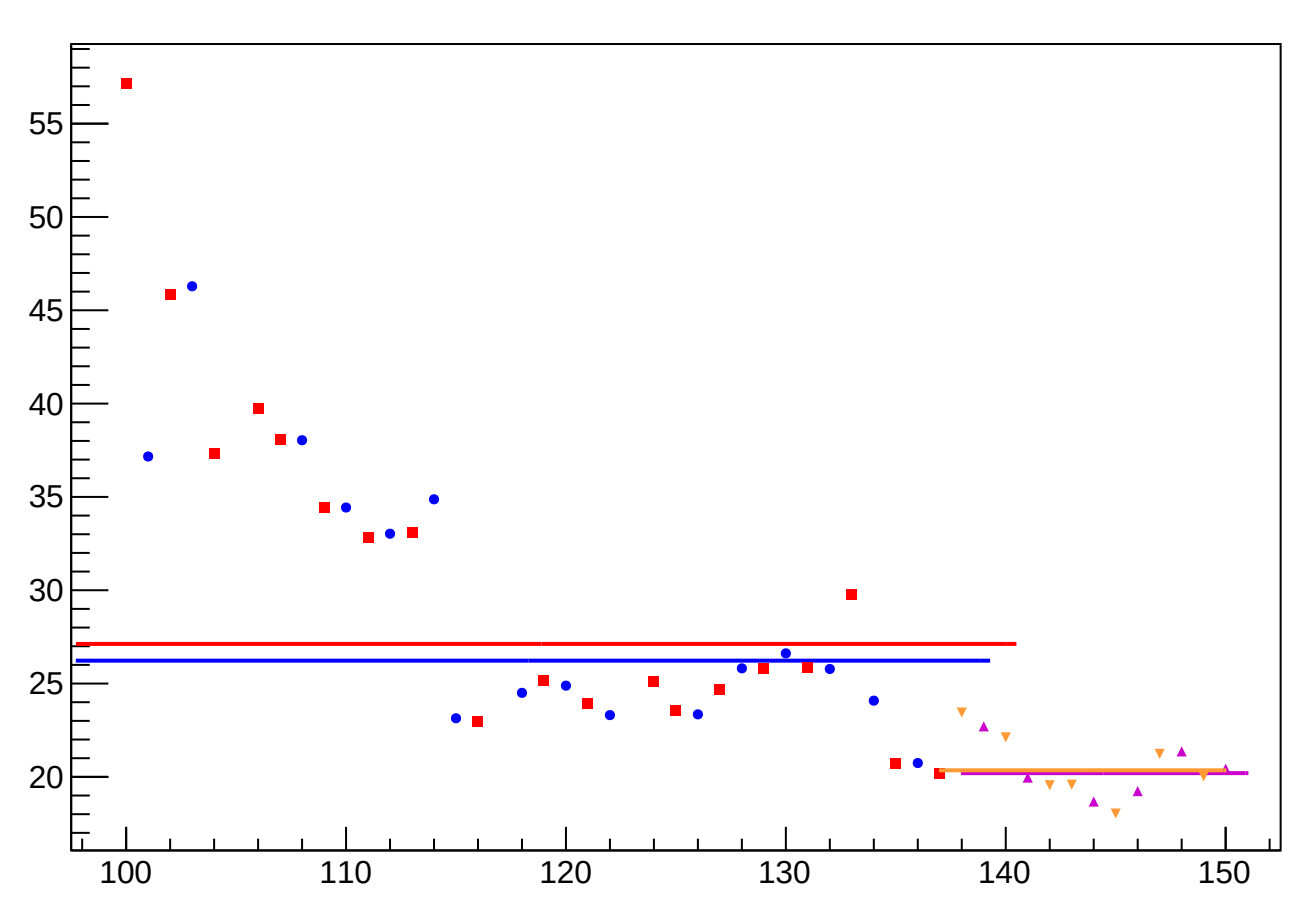
Left: -7.233+/-6.257 $\chi^2$/NDF: 9.5/12

Right: -7.399+/-7.182 $\chi^2$/NDF: 40.4/34

In: -6.187+/-6.640 $\chi^2$/NDF:26.5/21

Out: -8.444+/-6.704 $\chi^2$/NDF:23.4/25

All: -7.305+/-4.718 $\chi^2$/NDF: 49.9/47




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676029.5/15

Left Out: 20.351+/-0.006 $\chi^2$/NDF:71301.1/6

Right Out: 27.123+/-0.007 $\chi^2$/NDF: 745675.5/18

Left In: 20.200+/-0.006 $\chi^2$/NDF:42279.1/5

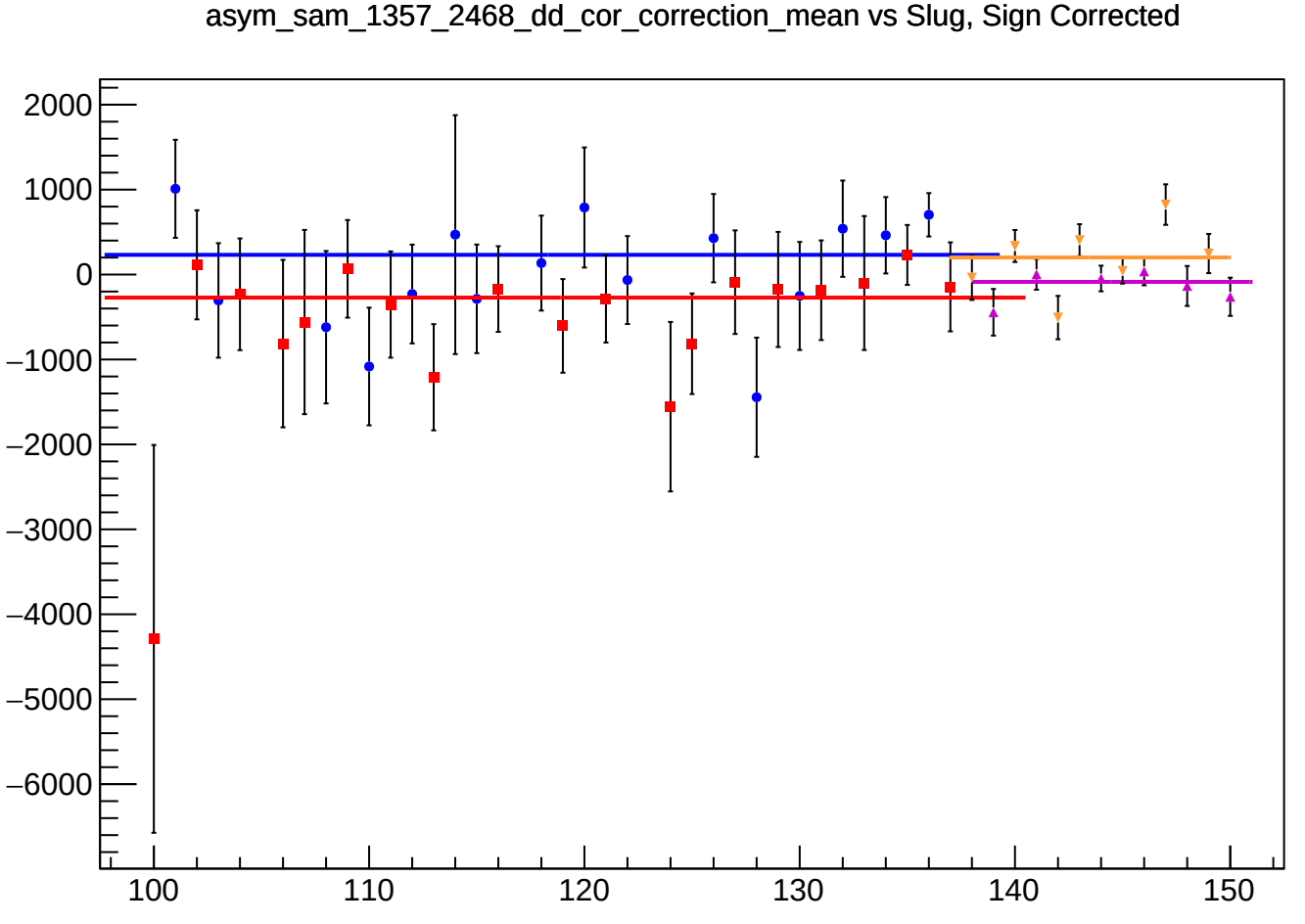
Left: 20.276+/-0.004 $\chi^2$/NDF: 113872.2/12

Right: 26.665+/-0.005 $\chi^2$/NDF: 1429493.5/34

In: 22.832+/-0.005 $\chi^2$/NDF:1123618.0/21

Out: 23.238+/-0.005 $\chi^2$/NDF:1316077.0/25

All: 23.033+/-0.003 $\chi^2$/NDF: 2443389.5/47




Right In: 232.084+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 201.303+/-77.330 $\chi^2$/NDF:18.2/6

Right Out: -271.412+/-140.183 $\chi^2$/NDF: 11.6/18

Left In: -86.376+/-78.402 $\chi^2$/NDF:3.2/5

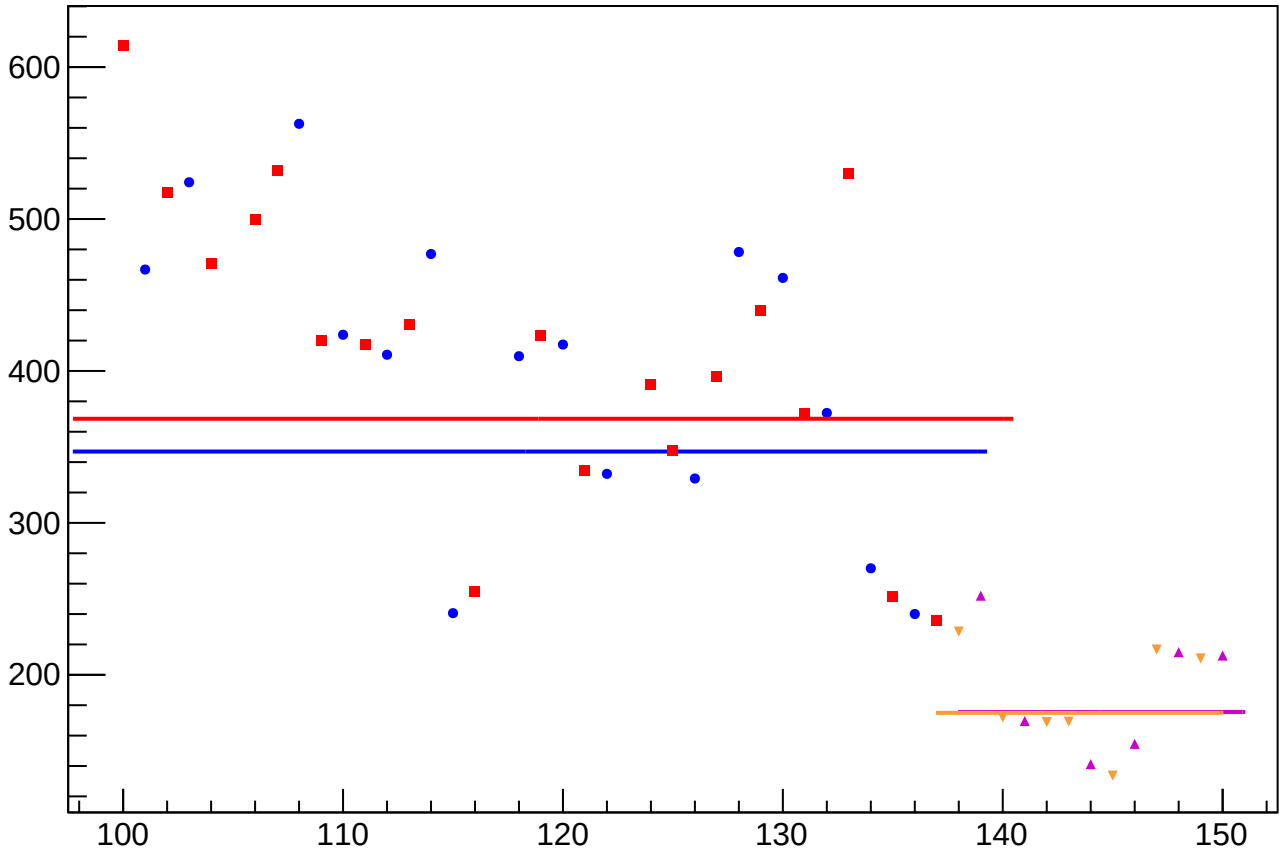
Left: 59.442+/-55.056 $\chi^2$/NDF: 28.2/12

Right: -9.945+/-97.192 $\chi^2$/NDF: 38.0/34

In: -5.943+/-67.781 $\chi^2$/NDF:27.0/21

Out: 91.015+/-67.711 $\chi^2$/NDF:38.5/25

All: 42.586+/-47.904 $\chi^2$/NDF: 66.6/47




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058057.4/15

Left Out: 174.989+/-0.055 $\chi^2$/NDF:348278.6/6

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 175.541+/-0.055 $\chi^2$/NDF:404490.7/5

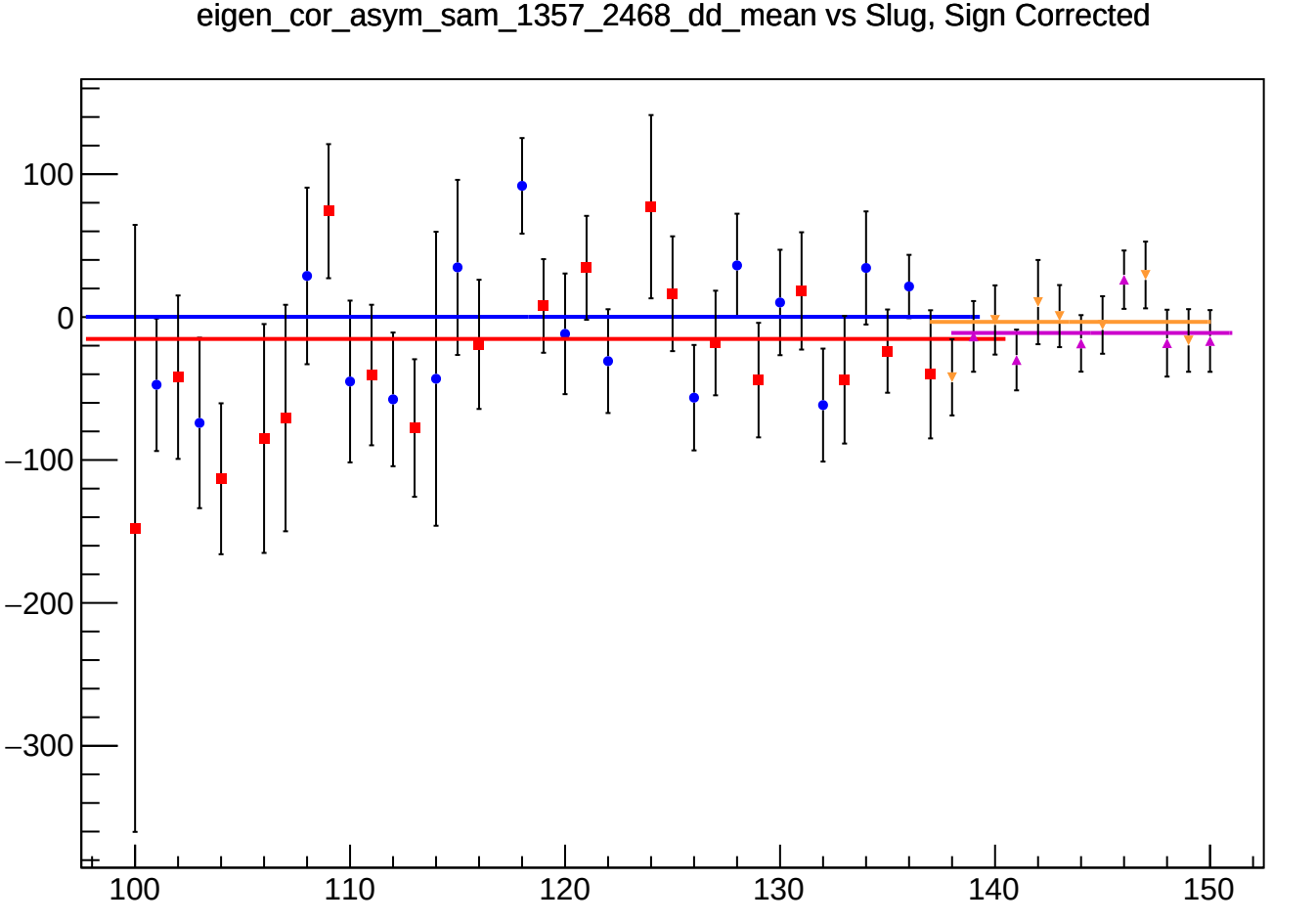
Left: 175.261+/-0.039 $\chi^2$/NDF: 752819.6/12

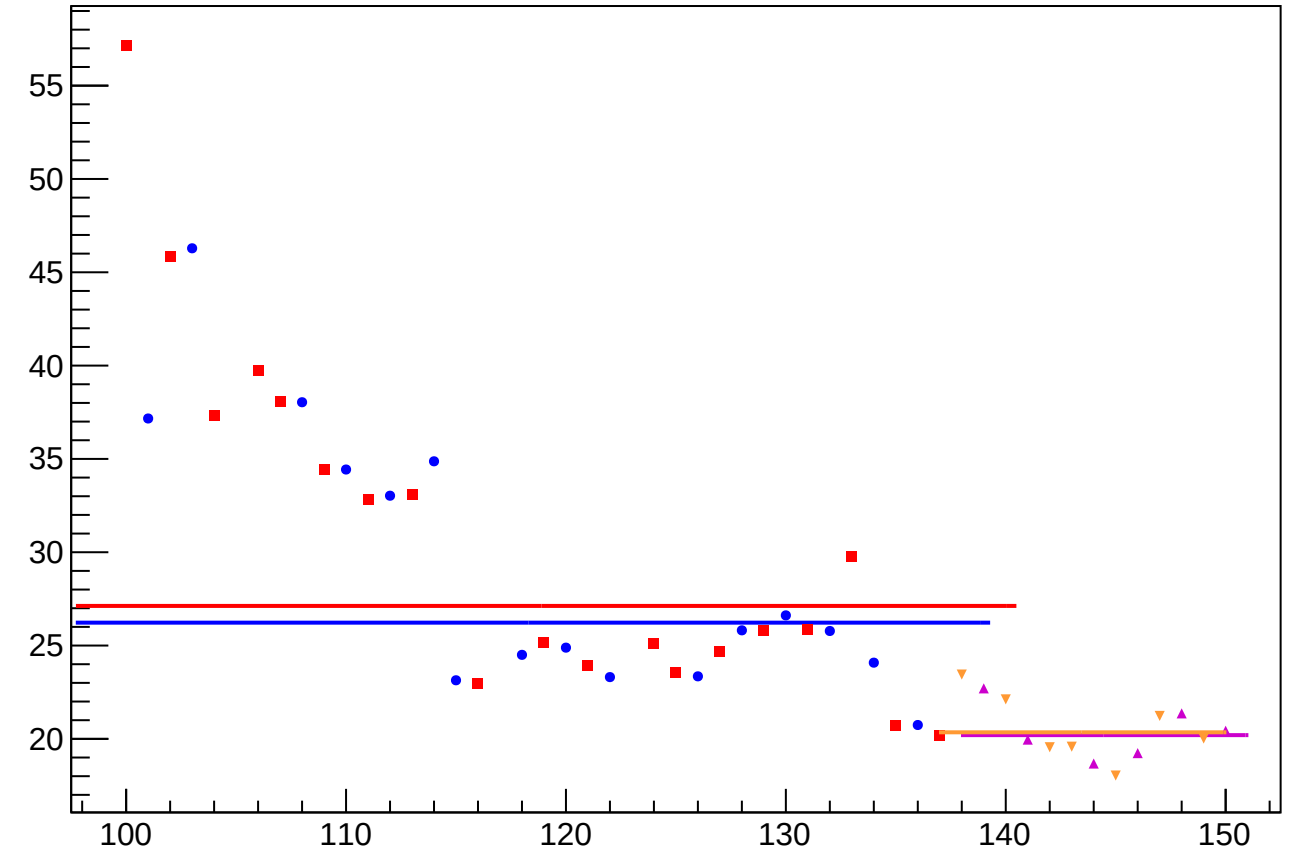
Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 218.839+/-0.048 $\chi^2$/NDF:3877601.6/21

Out: 220.147+/-0.048 $\chi^2$/NDF:4171759.9/25

All: 219.493+/-0.034 $\chi^2$/NDF: 8049734.4/47


eigen_cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected
100
0
−100
−200
−300
100
110
120
130
140
150
Right In: 0.157+/-10.048 χ²/NDF: 21.3/15
Left Out: -3.357+/-8.851 χ²/NDF:4.7/6
Right Out: -15.292+/-10.269 χ²/NDF: 17.9/18
Left In: -11.106+/-8.848 χ²/NDF:4.4/5
Left: -7.233+/-6.257 χ²/NDF: 9.5/12
Right: -7.399+/-7.182 χ²/NDF: 40.4/34
In: -6.187+/-6.640 χ²/NDF:26.5/21
Out: -8.444+/-6.704 χ²/NDF:23.4/25
All: -7.305+/-4.718 χ²/NDF: 49.9/47




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676029.5/15

Left Out: 20.351+/-0.006 $\chi^2$/NDF:71301.1/6

Right Out: 27.123+/-0.007 $\chi^2$/NDF: 745675.5/18

Left In: 20.200+/-0.006 $\chi^2$/NDF:42279.1/5

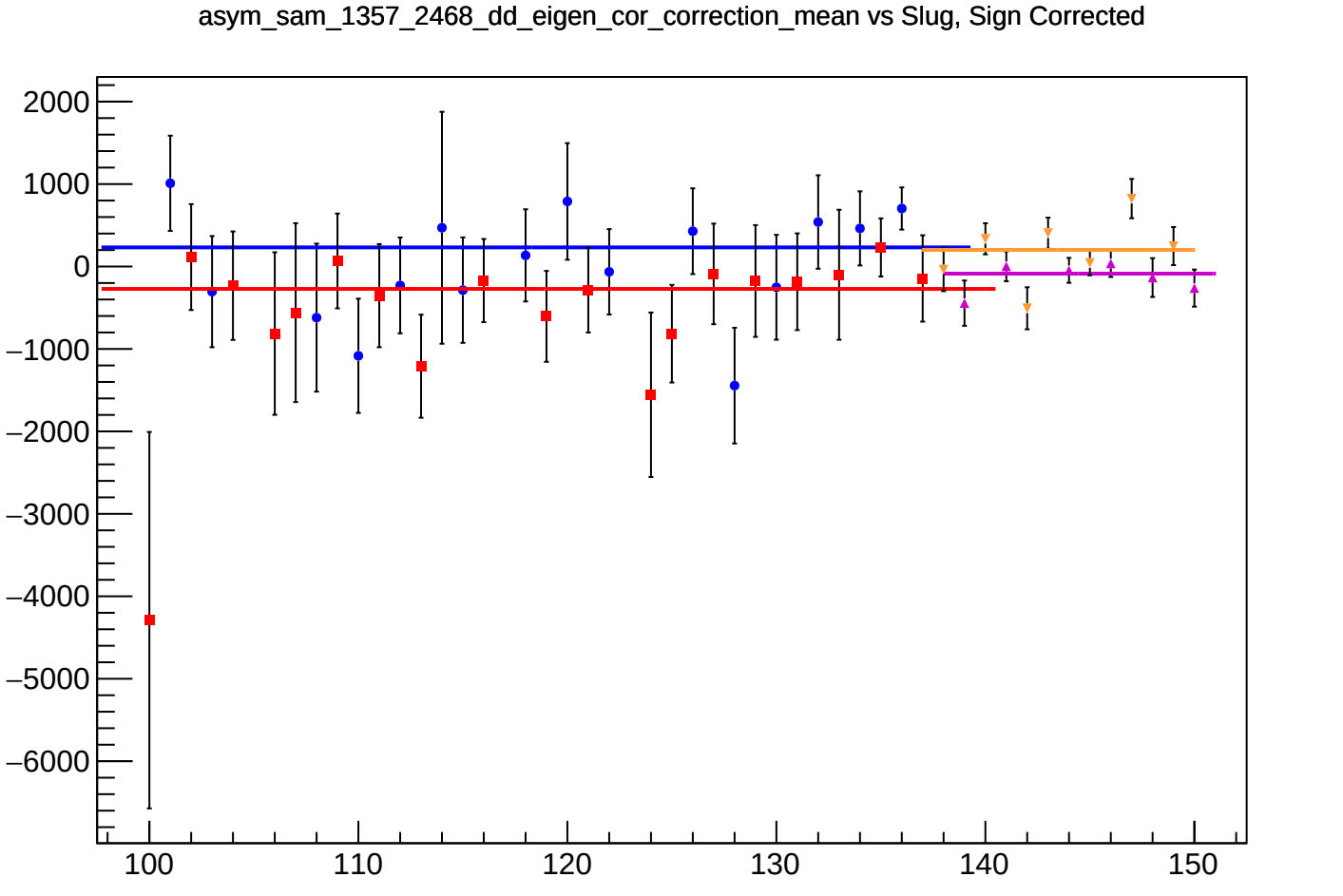
Left: 20.276+/-0.004 $\chi^2$/NDF: 113872.2/12

Right: 26.665+/-0.005 $\chi^2$/NDF: 1429493.5/34

In: 22.832+/-0.005 $\chi^2$/NDF:1123618.0/21

Out: 23.238+/-0.005 $\chi^2$/NDF:1316077.0/25

All: 23.033+/-0.003 $\chi^2$/NDF: 2443389.5/47




Right In: 232.084+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 201.303+/-77.330 $\chi^2$/NDF:18.2/6

Right Out: -271.412+/-140.183 $\chi^2$/NDF: 11.6/18

Left In: -86.376+/-78.402 $\chi^2$/NDF:3.2/5

Left: 59.442+/-55.056 $\chi^2$/NDF: 28.2/12

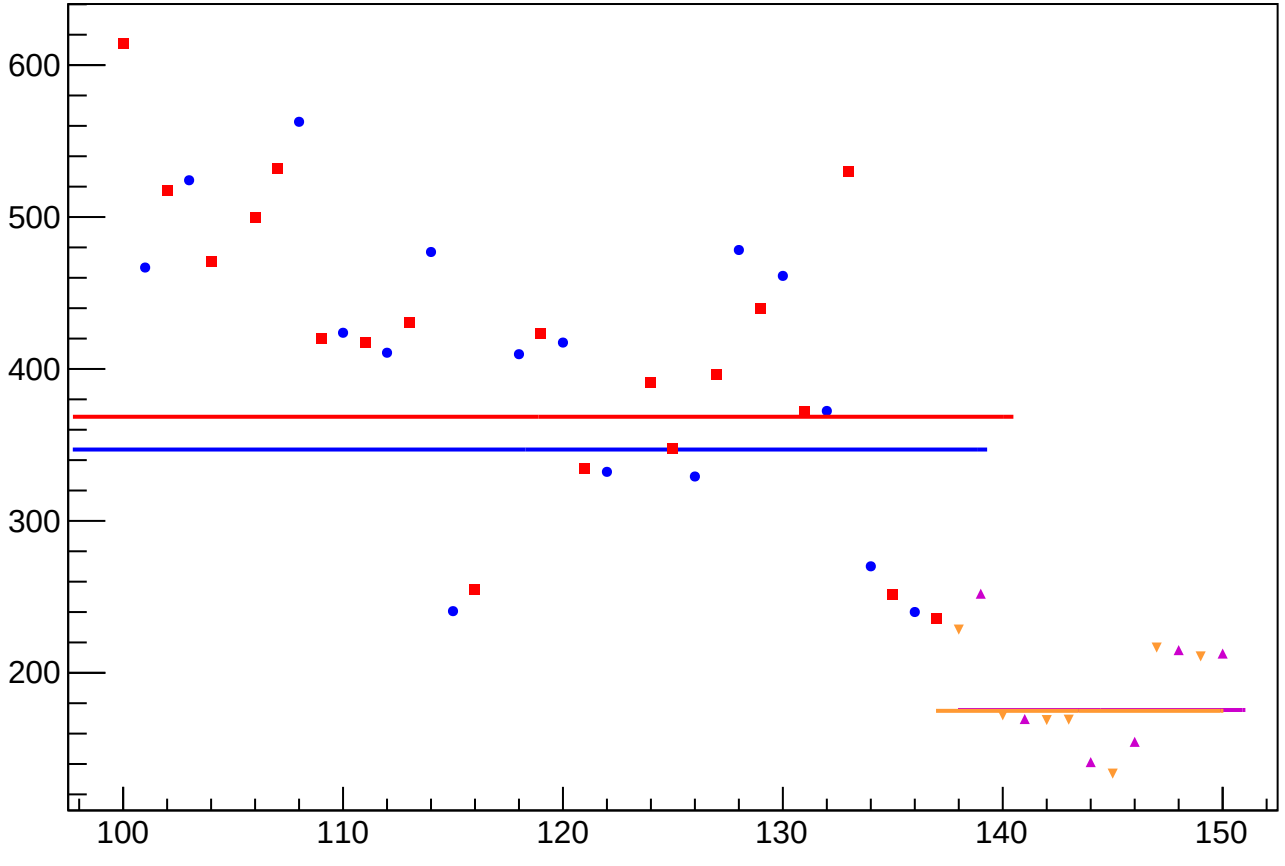
Right: -9.945+/-97.192 $\chi^2$/NDF: 38.0/34

In: -5.943+/-67.781 $\chi^2$/NDF:27.0/21

Out: 91.015+/-67.711 $\chi^2$/NDF:38.5/25

All: 42.586+/-47.904 $\chi^2$/NDF: 66.6/47

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058057.4/15

Left Out: 174.989+/-0.055 $\chi^2$/NDF:348278.6/6

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 175.541+/-0.055 $\chi^2$/NDF:404490.7/5

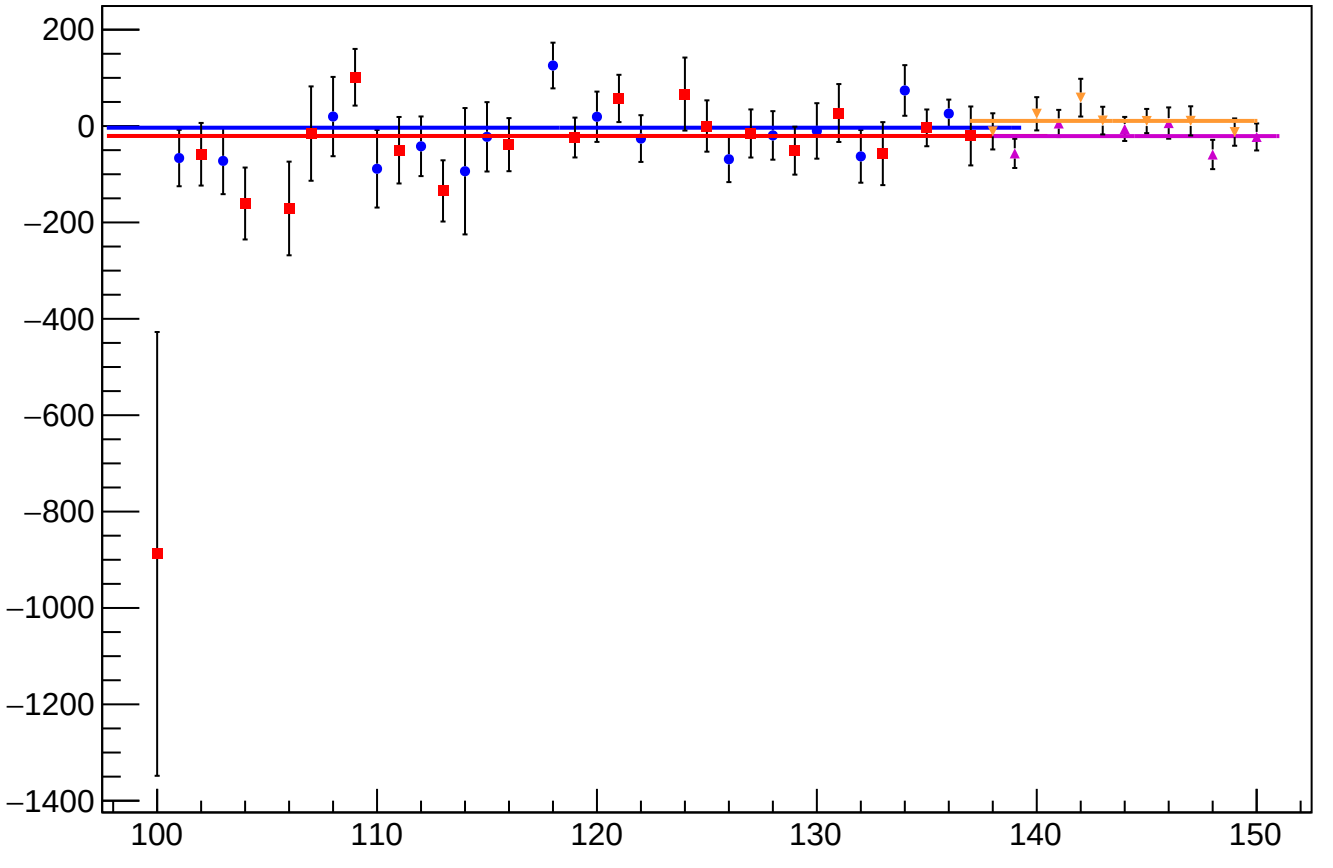
Left: 175.261+/-0.039 $\chi^2$/NDF: 752819.6/12

Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 218.839+/-0.048 $\chi^2$/NDF:3877601.6/21

Out: 220.147+/-0.048 $\chi^2$/NDF:4171759.9/25

All: 219.493+/-0.034 $\chi^2$/NDF: 8049734.4/47




Right In: -3.423+/-13.393 $\chi^2$/NDF: 18.5/15

Left Out: 10.699+/-11.672 $\chi^2$/NDF:2.7/6

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -20.844+/-11.737 $\chi^2$/NDF:4.9/5

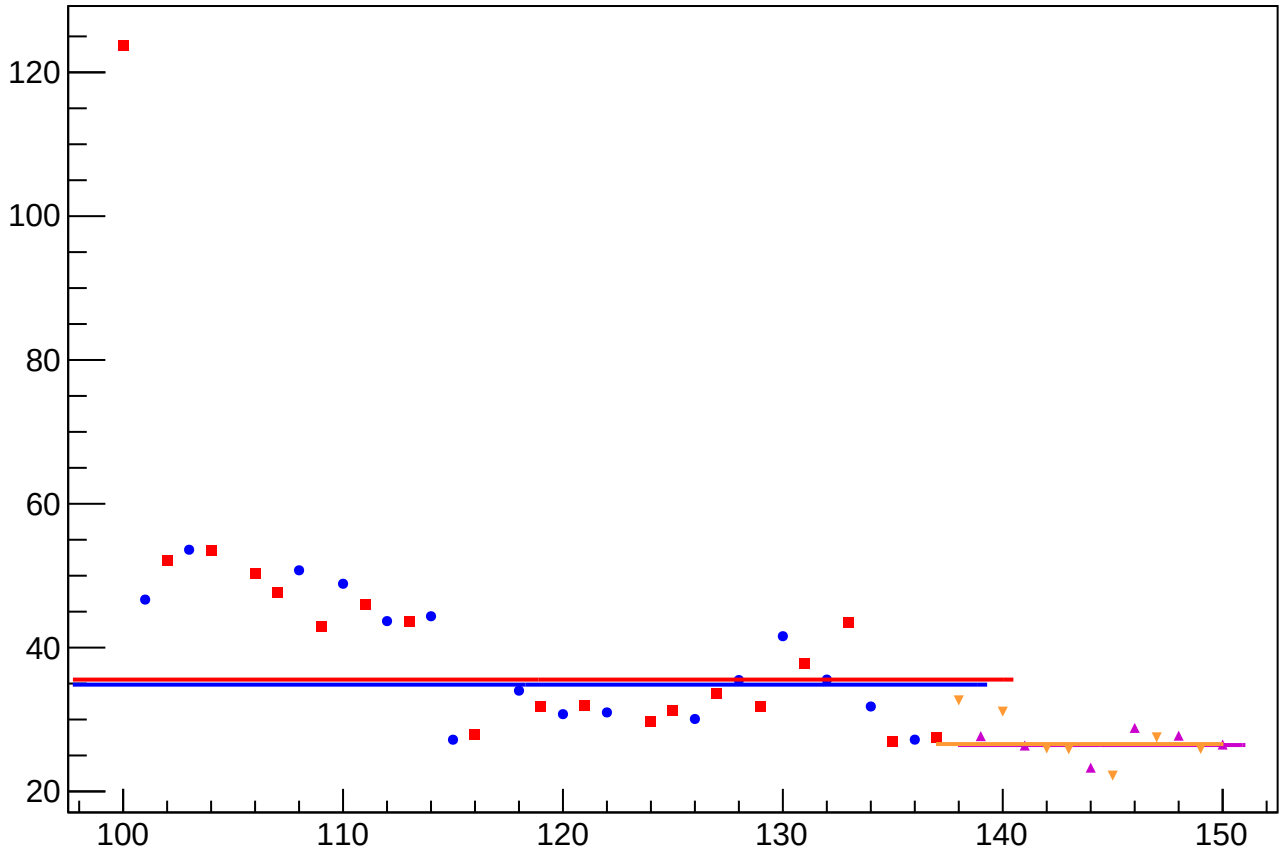
Left: -4.985+/-8.276 $\chi^2$/NDF: 11.2/12

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -13.276+/-8.827 $\chi^2$/NDF:24.3/21

Out: -2.705+/-8.822 $\chi^2$/NDF:28.9/25

All: -7.988+/-6.240 $\chi^2$/NDF: 54.0/47




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658141.6/15

Left Out: 26.587+/-0.008 $\chi^2$/NDF:152640.9/6

Right Out: 35.553+/-0.010 $\chi^2$/NDF: 779880.3/18

Left In: 26.450+/-0.008 $\chi^2$/NDF:49571.5/5

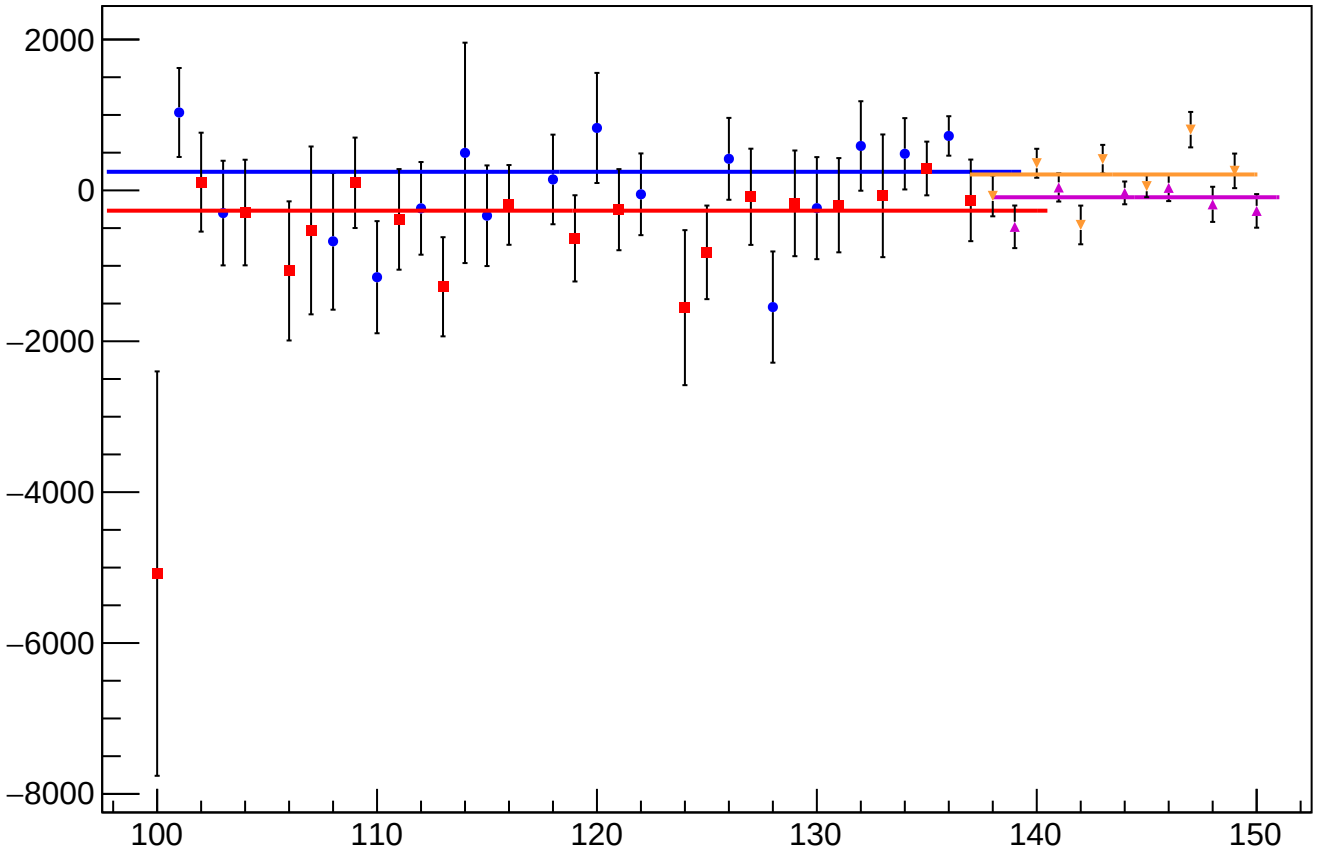
Left: 26.519+/-0.006 $\chi^2$/NDF: 202349.8/12

Right: 35.200+/-0.007 $\chi^2$/NDF: 1440755.9/34

In: 30.099+/-0.006 $\chi^2$/NDF:1152768.7/21

Out: 30.430+/-0.006 $\chi^2$/NDF:1438395.0/25

All: 30.265+/-0.004 $\chi^2$/NDF: 2592573.5/47




Right In: 246.507+/-140.275 $\chi^2$/NDF: 19.8/15

Left Out: 211.111+/-77.265 $\chi^2$/NDF:17.2/6

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -90.963+/-80.084 $\chi^2$/NDF:3.9/5

Left: 65.485+/-55.605 $\chi^2$/NDF: 28.5/12

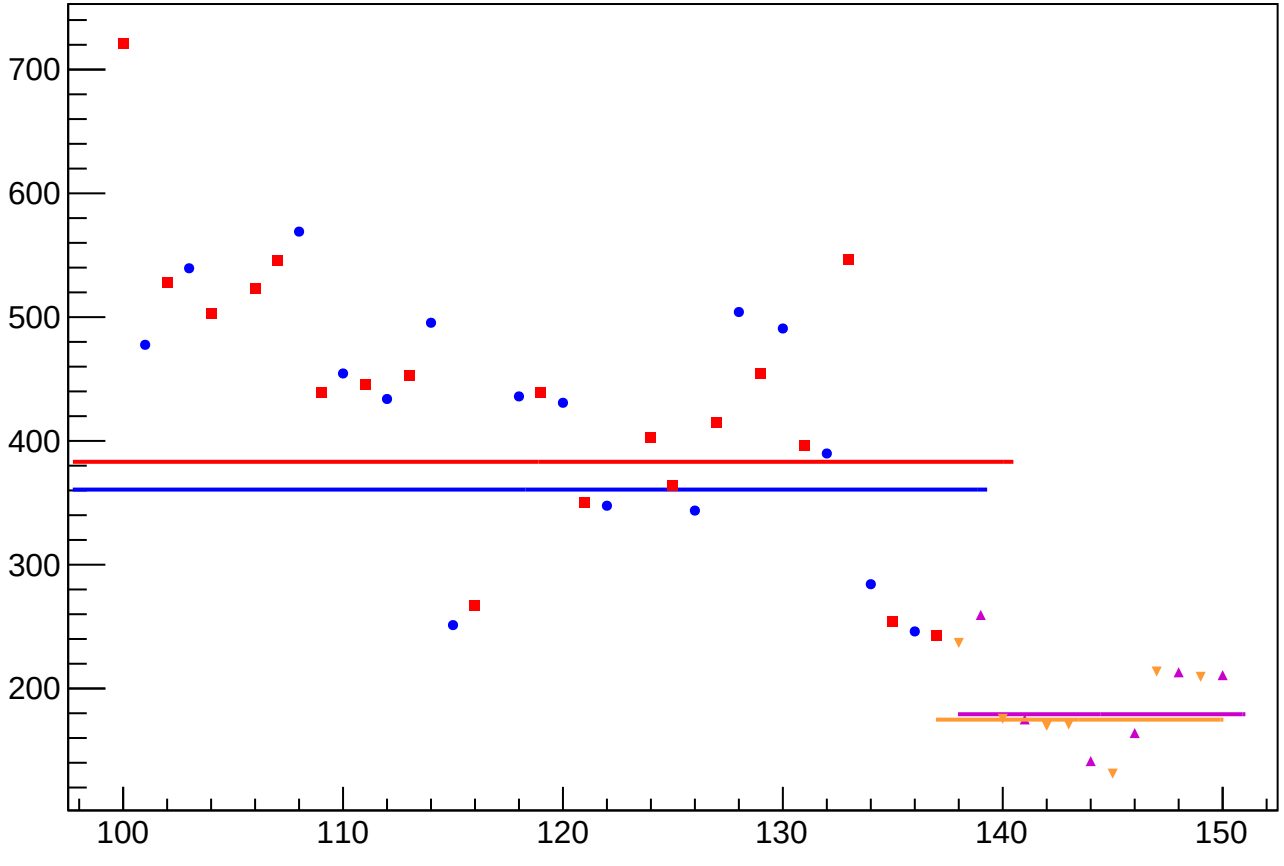
Right: -2.144+/-100.917 $\chi^2$/NDF: 38.9/34

In: -8.007+/-69.548 $\chi^2$/NDF:28.0/21

Out: 105.291+/-68.219 $\chi^2$/NDF:38.3/25

All: 49.735+/-48.701 $\chi^2$/NDF: 67.7/47

asym_sam_1357_2468_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 360.692+/-0.099 $\chi^2$/NDF: 1092760.6/15

Left Out: 174.836+/-0.055 $\chi^2$/NDF:384235.2/6

Right Out: 383.132+/-0.103 $\chi^2$/NDF: 963125.0/18

Left In: 179.207+/-0.057 $\chi^2$/NDF:385461.3/5

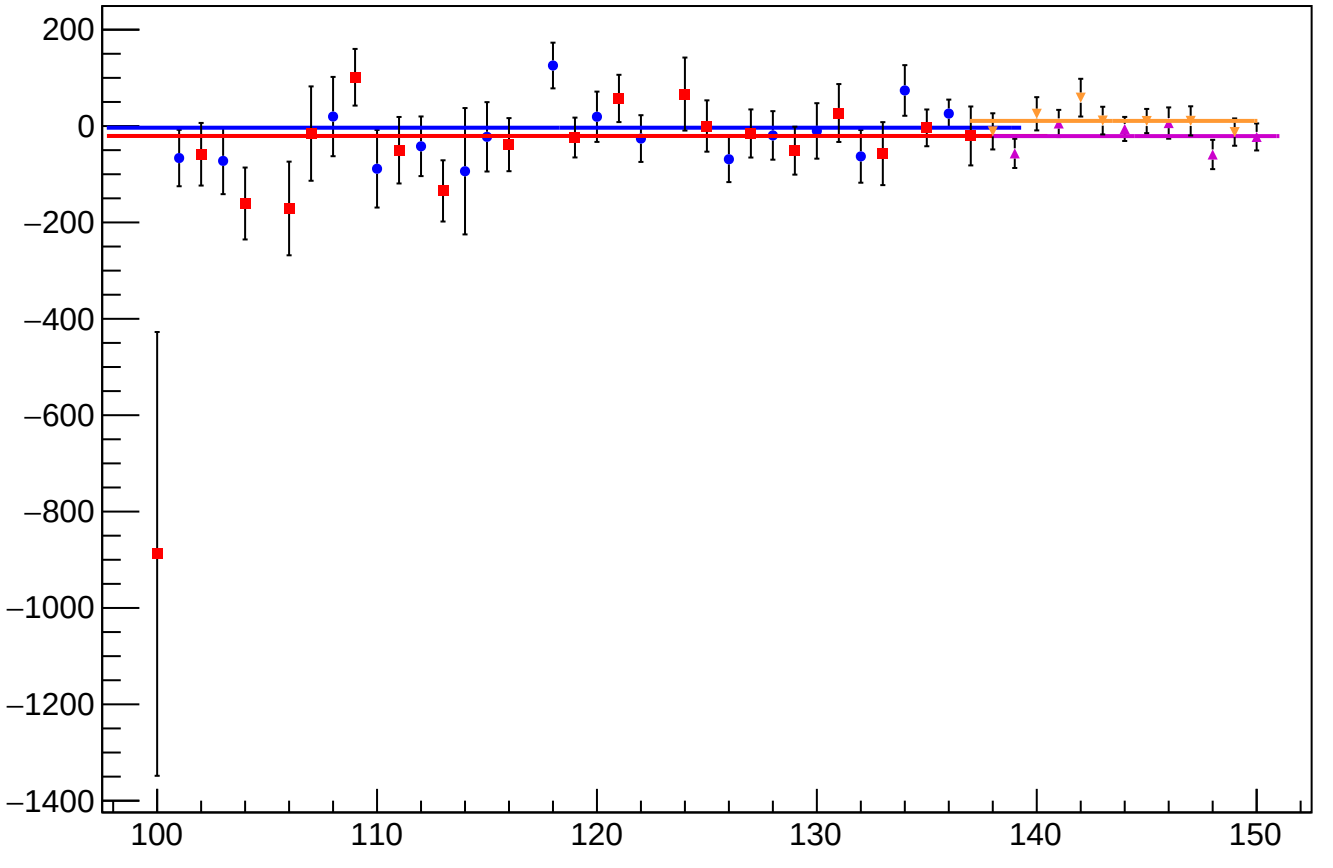
Left: 176.943+/-0.039 $\chi^2$/NDF: 772782.2/12

Right: 371.518+/-0.071 $\chi^2$/NDF: 2080575.8/34

In: 223.819+/-0.049 $\chi^2$/NDF:4003051.0/21

Out: 220.754+/-0.048 $\chi^2$/NDF:4551666.6/25

All: 222.257+/-0.034 $\chi^2$/NDF: 8556697.3/47




Right In: -3.425+/-13.392 $\chi^2$/NDF: 18.5/15

Left Out: 10.699+/-11.672 $\chi^2$/NDF:2.7/6

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -20.844+/-11.737 $\chi^2$/NDF:4.9/5

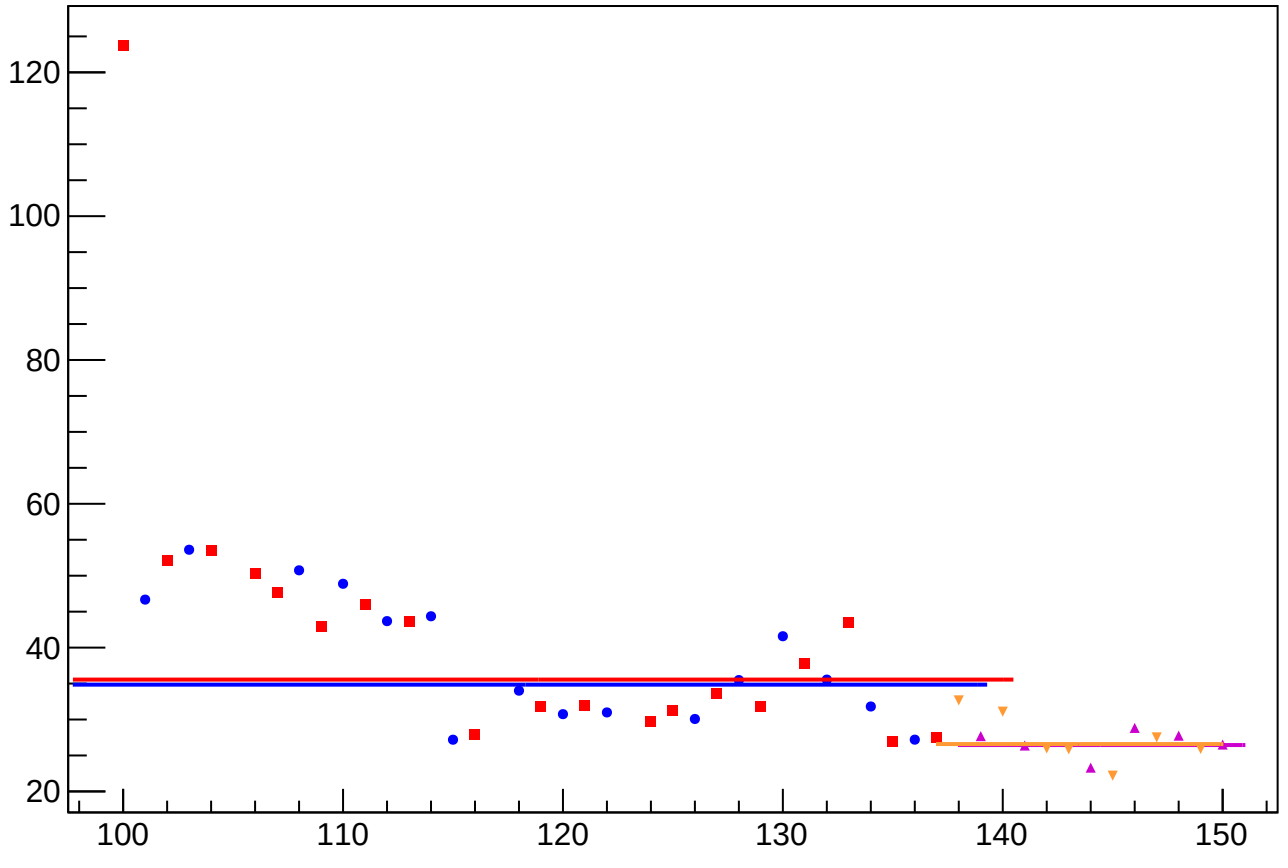
Left: -4.984+/-8.276 $\chi^2$/NDF: 11.2/12

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -13.277+/-8.827 $\chi^2$/NDF:24.3/21

Out: -2.705+/-8.822 $\chi^2$/NDF:28.9/25

All: -7.988+/-6.240 $\chi^2$/NDF: 54.0/47




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658089.6/15

Left Out: 26.587+/-0.008 $\chi^2$/NDF:152623.9/6

Right Out: 35.552+/-0.010 $\chi^2$/NDF: 779849.4/18

Left In: 26.450+/-0.008 $\chi^2$/NDF:49567.2/5

Left: 26.519+/-0.006 $\chi^2$/NDF: 202328.6/12

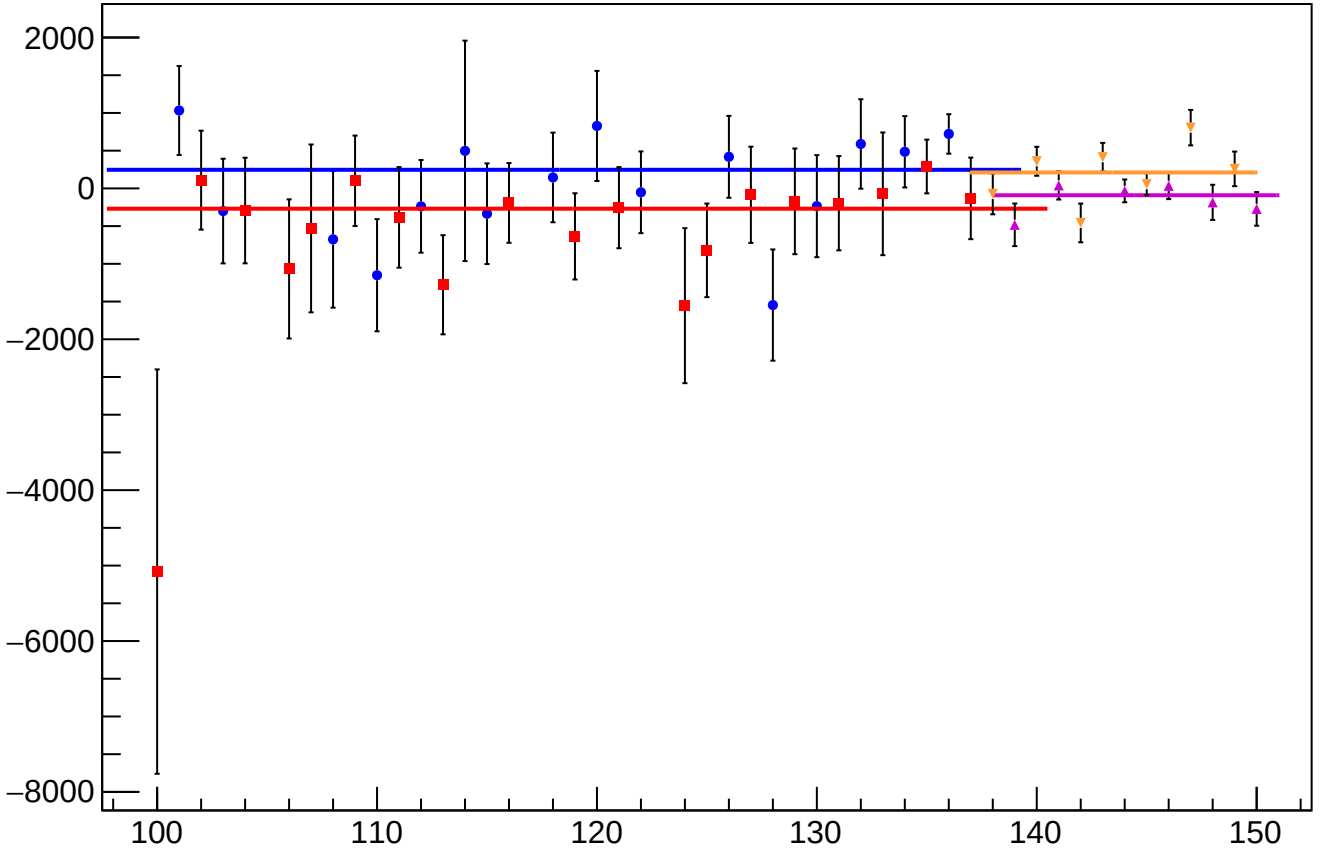
Right: 35.199+/-0.007 $\chi^2$/NDF: 1440673.9/34

In: 30.099+/-0.006 $\chi^2$/NDF:1152669.7/21

Out: 30.430+/-0.006 $\chi^2$/NDF:1438305.4/25

All: 30.265+/-0.004 $\chi^2$/NDF: 2592385.4/47

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 246.505+/-140.274 $\chi^2$/NDF: 19.8/15

Left Out: 211.111+/-77.265 $\chi^2$/NDF:17.2/6

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -90.963+/-80.084 $\chi^2$/NDF:3.9/5

Left: 65.485+/-55.604 $\chi^2$/NDF: 28.5/12

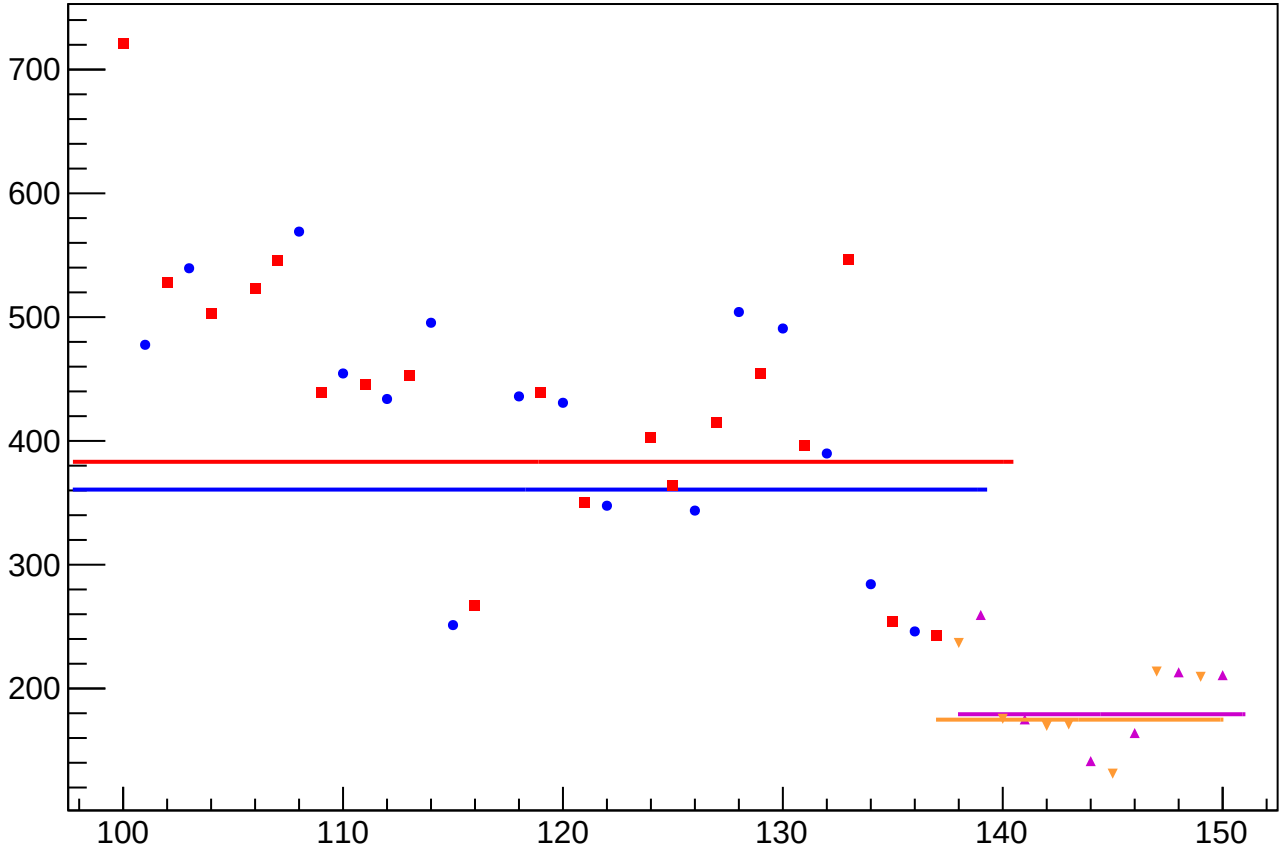
Right: -2.145+/-100.917 $\chi^2$/NDF: 38.9/34

In: -8.008+/-69.548 $\chi^2$/NDF:28.0/21

Out: 105.291+/-68.219 $\chi^2$/NDF:38.3/25

All: 49.735+/-48.701 $\chi^2$/NDF: 67.7/47

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 360.691+/-0.099 $\chi^2$/NDF: 1092752.5/15

Left Out: 174.835+/-0.055 $\chi^2$/NDF:384241.6/6

Right Out: 383.131+/-0.103 $\chi^2$/NDF: 963120.8/18

Left In: 179.206+/-0.057 $\chi^2$/NDF:385459.7/5

Left: 176.942+/-0.039 $\chi^2$/NDF: 772787.4/12

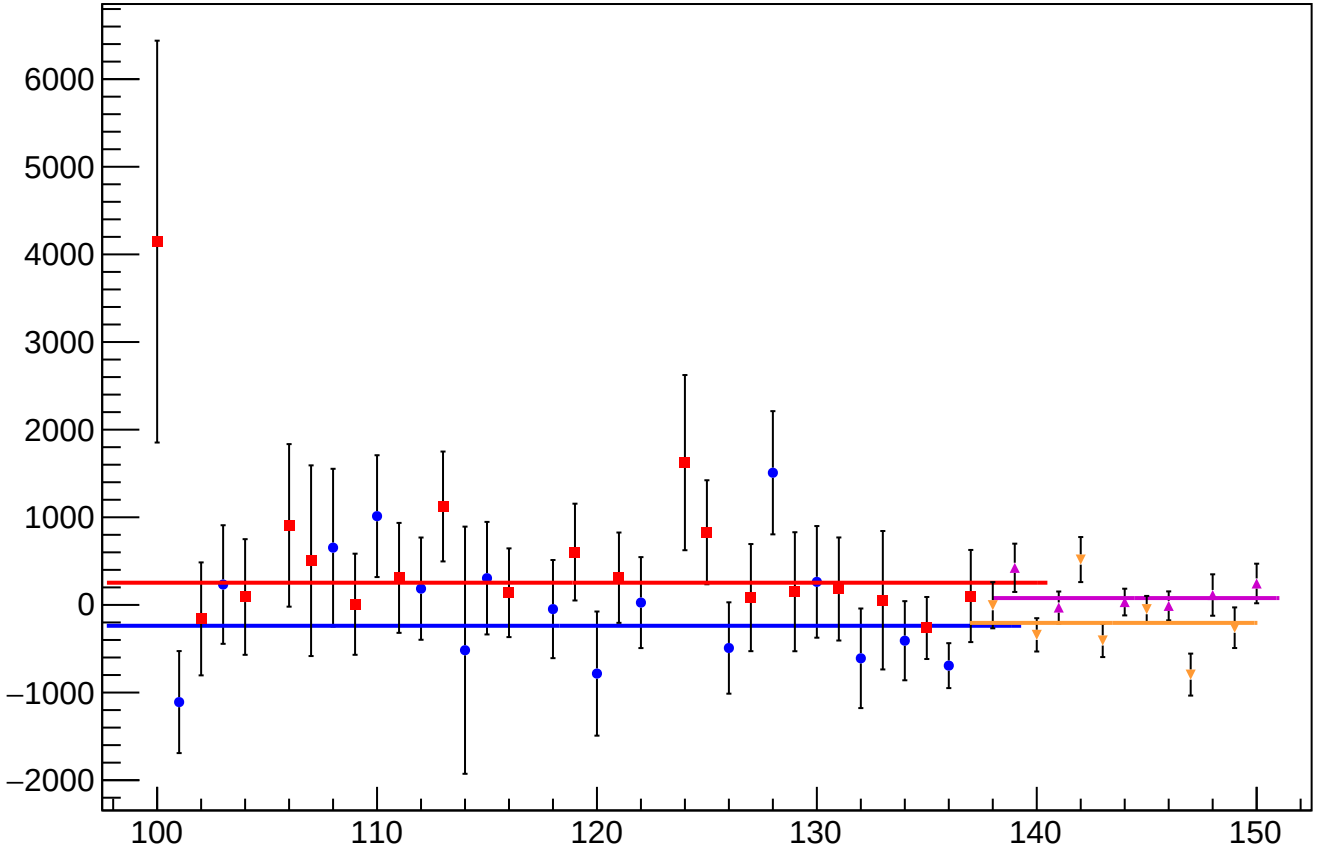
Right: 371.517+/-0.071 $\chi^2$/NDF: 2080563.7/34

In: 223.819+/-0.049 $\chi^2$/NDF:4003041.1/21

Out: 220.753+/-0.048 $\chi^2$/NDF:4551679.8/25

All: 222.256+/-0.034 $\chi^2$/NDF: 8556701.0/47

# asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected




Right In: -238.043+/-135.349 $\chi^2$/NDF: 19.9/15

Left Out: -205.039+/-77.883 $\chi^2$/NDF:17.3/6

Right Out: 253.445+/-140.414 $\chi^2$/NDF: 11.7/18

Left In: 78.066+/-78.956 $\chi^2$/NDF:2.9/5

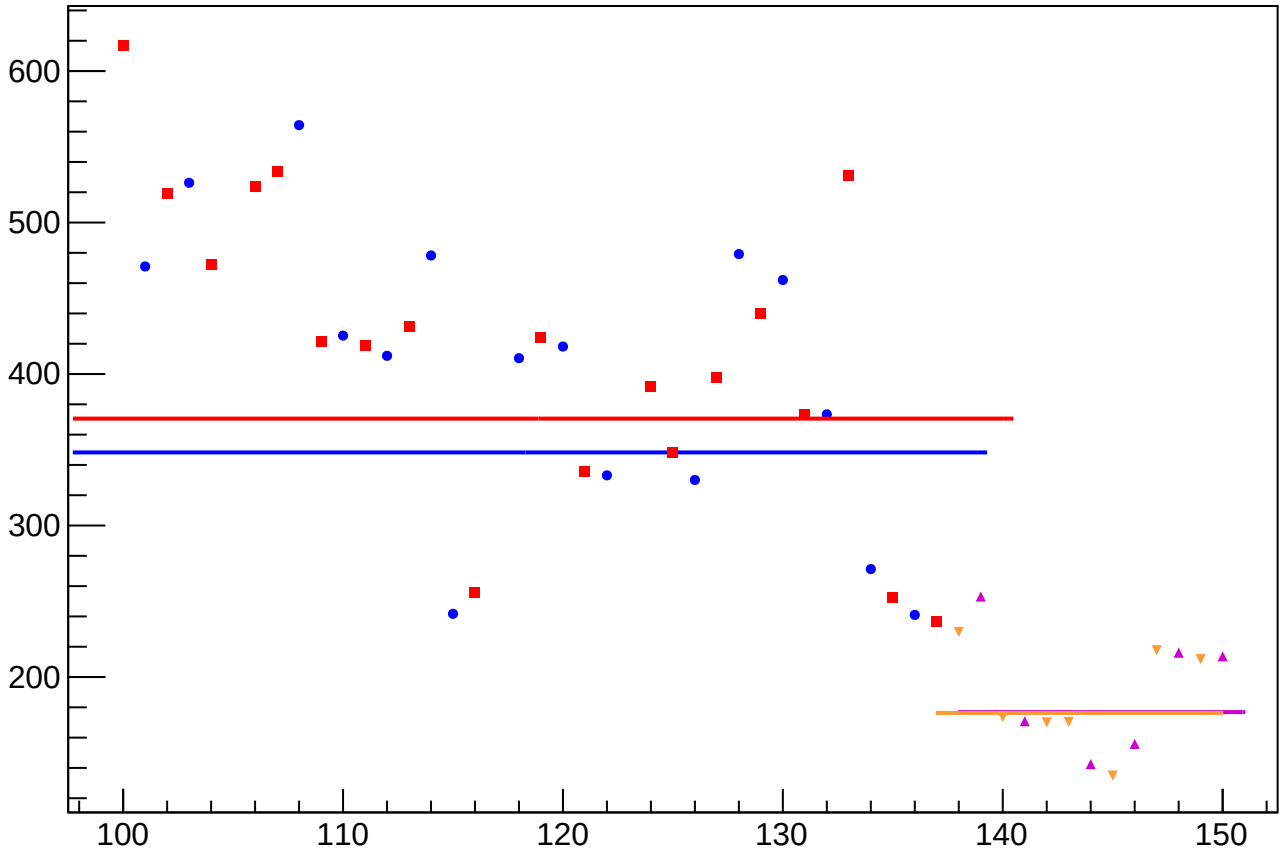
Left: -65.423+/-55.447 $\chi^2$/NDF: 26.7/12

Right: -1.323+/-97.448 $\chi^2$/NDF: 38.0/34

In: -2.194+/-68.200 $\chi^2$/NDF:26.9/21

Out: -97.170+/-68.108 $\chi^2$/NDF:37.2/25

All: -49.746+/-48.192 $\chi^2$/NDF: 65.0/47




Right In: 348.253+/-0.096 $\chi^2$/NDF: 1056820.3/15

Left Out: 176.307+/-0.055 $\chi^2$/NDF:342183.9/6

Right Out: 370.585+/-0.099 $\chi^2$/NDF: 917913.5/18

Left In: 176.856+/-0.056 $\chi^2$/NDF:397591.4/5

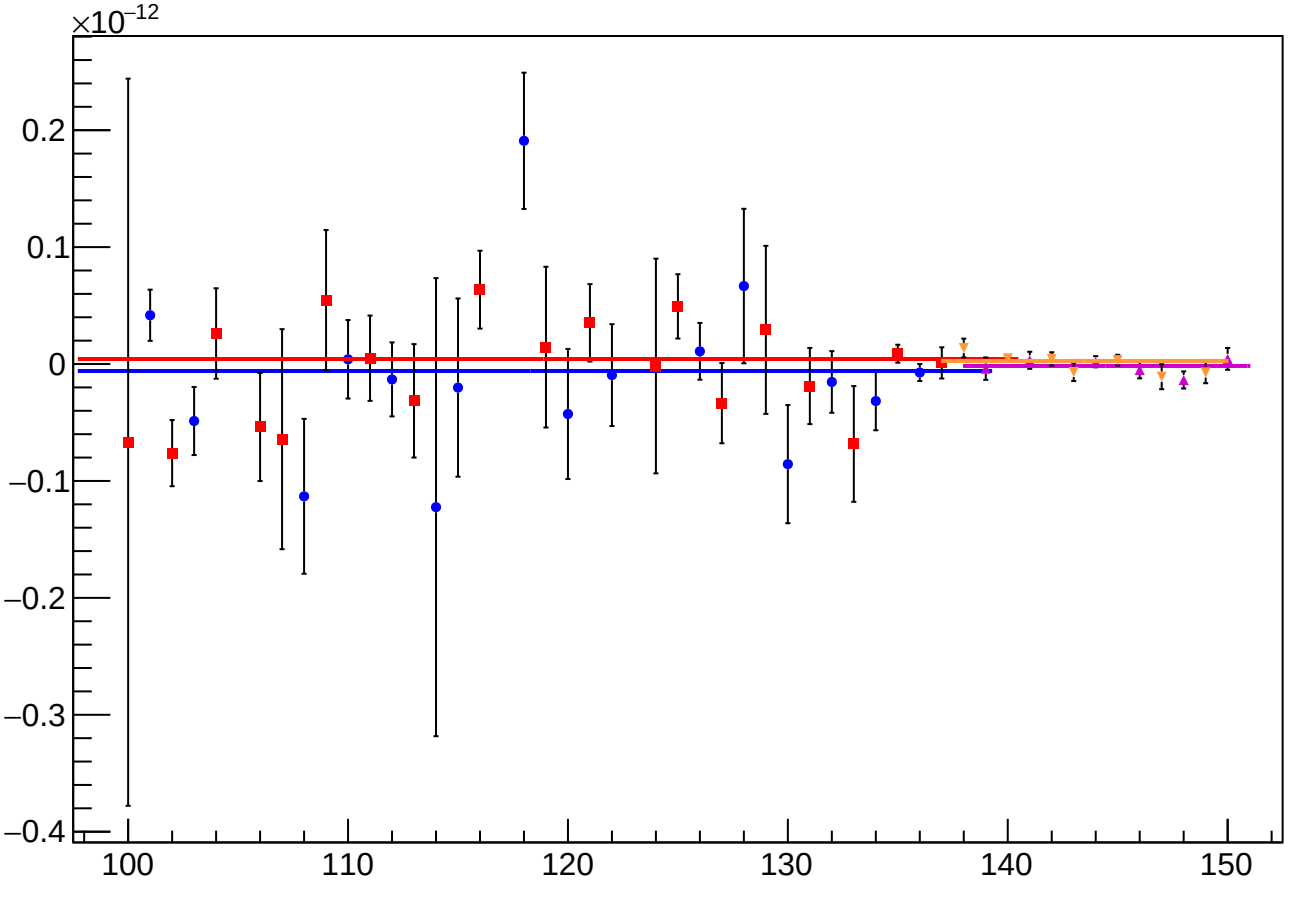
Left: 176.577+/-0.039 $\chi^2$/NDF: 739824.3/12

Right: 359.009+/-0.069 $\chi^2$/NDF: 2000959.8/34

In: 220.373+/-0.048 $\chi^2$/NDF:3847309.2/21

Out: 222.015+/-0.048 $\chi^2$/NDF:4188067.2/25

All: 221.195+/-0.034 $\chi^2$/NDF: 8035957.0/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.4/5

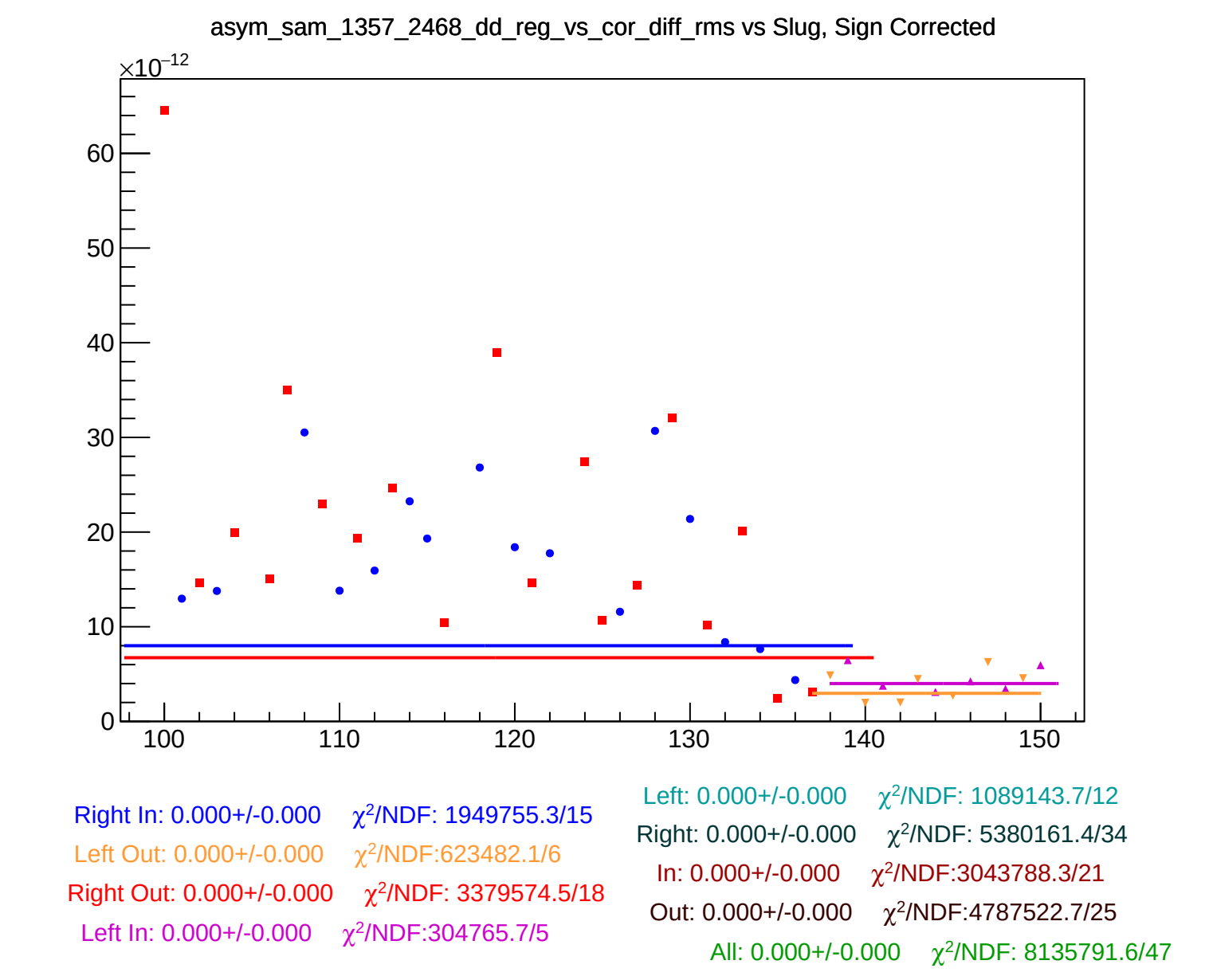
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.3/12

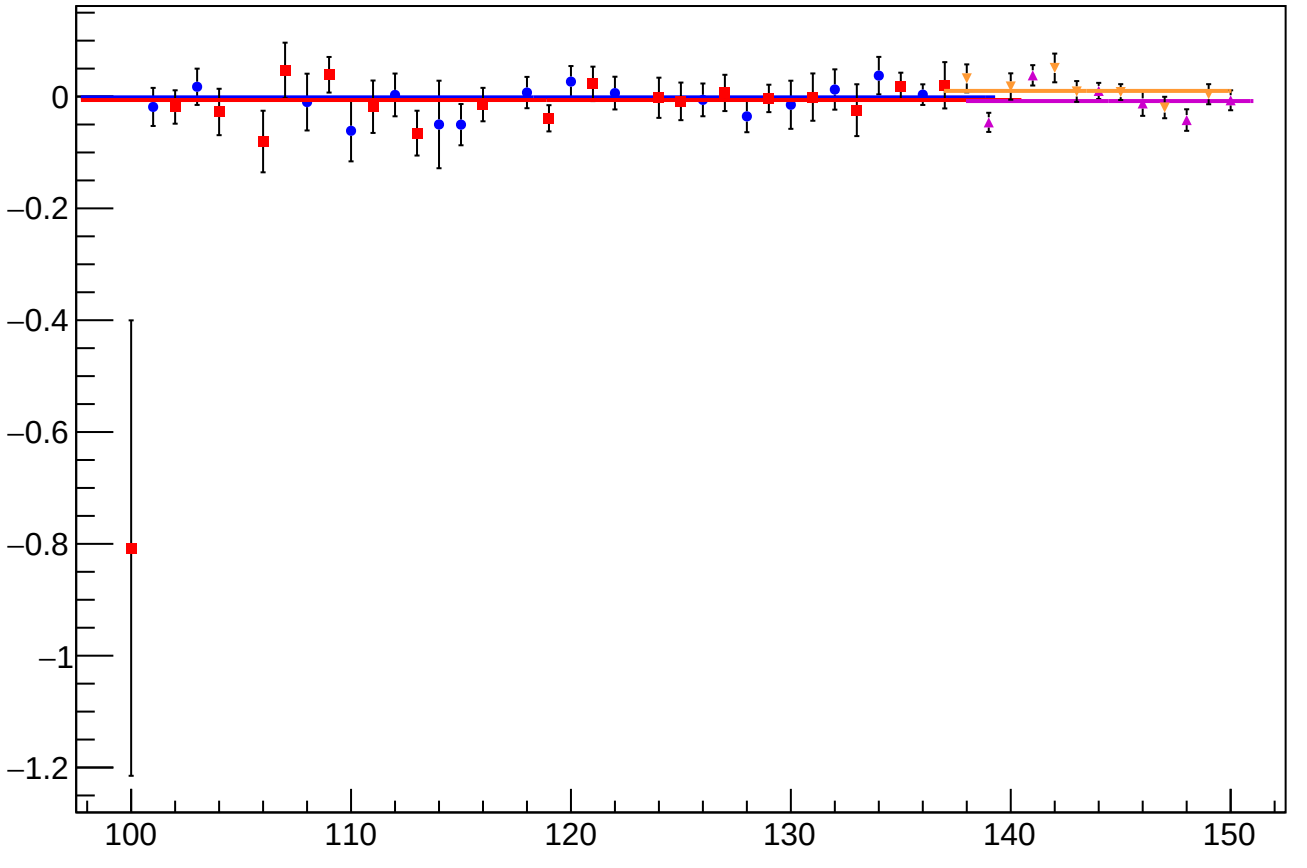
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.2/21

Out: 0.000+/-0.000 $\chi^2$/NDF:29.6/25

All: 0.000+/-0.000 $\chi^2$/NDF: 64.4/47


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 1949755.3/15
Left Out: 0.000+/-0.000 χ²/NDF:623482.1/6
Right Out: 0.000+/-0.000 χ²/NDF: 3379574.5/18
Left In: 0.000+/-0.000 χ²/NDF:304765.7/5
Left: 0.000+/-0.000 χ²/NDF: 1089143.7/12
Right: 0.000+/-0.000 χ²/NDF: 5380161.4/34
In: 0.000+/-0.000 χ²/NDF:3043788.3/21
Out: 0.000+/-0.000 χ²/NDF:4787522.7/25
All: 0.000+/-0.000 χ²/NDF: 8135791.6/47




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.010+/-0.007 $\chi^2$/NDF:6.0/6

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.008+/-0.007 $\chi^2$/NDF:16.1/5

Left: 0.001+/-0.005 $\chi^2$/NDF: 25.2/12

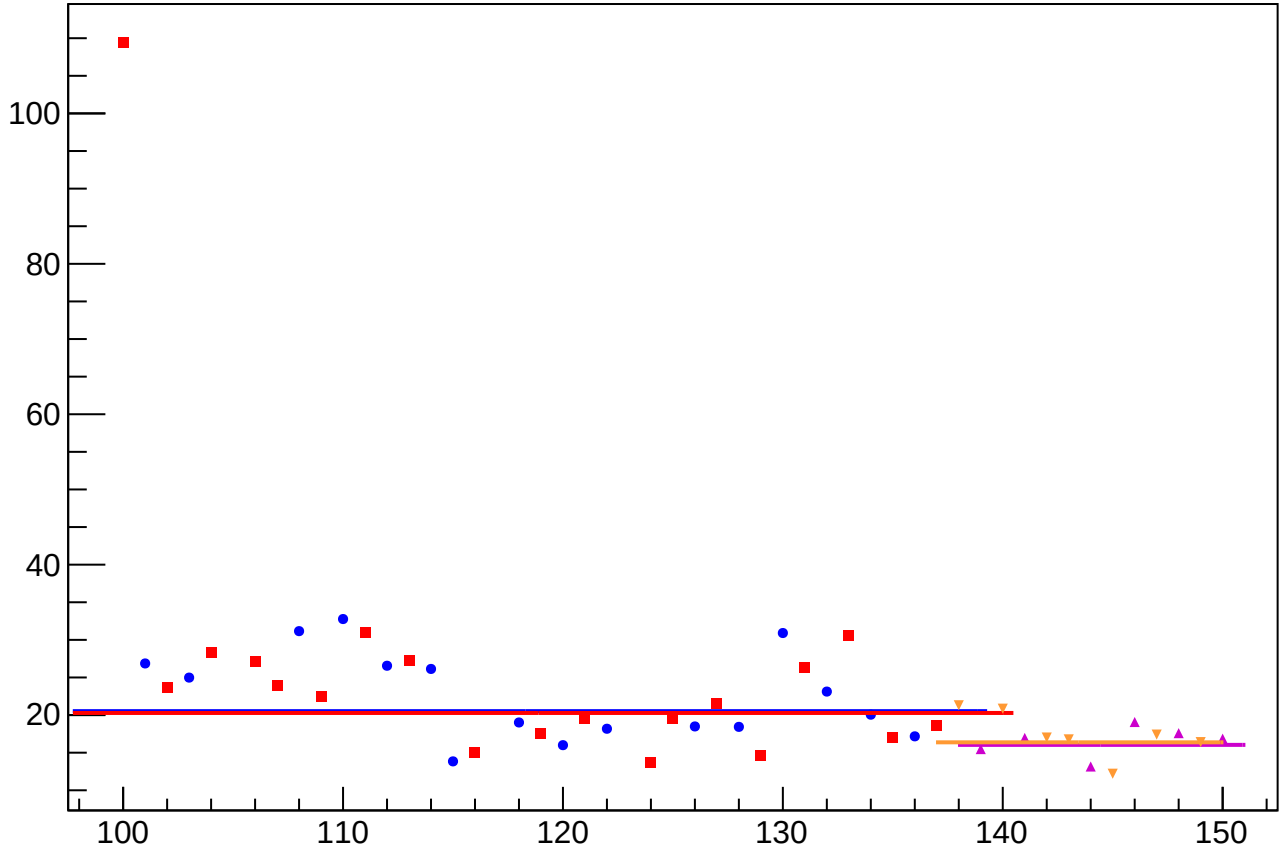
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.005 $\chi^2$/NDF:24.7/21

Out: 0.003+/-0.005 $\chi^2$/NDF:24.5/25

All: -0.001+/-0.004 $\chi^2$/NDF: 50.2/47

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.522+/-0.006 $\chi^2$/NDF: 705998.4/15

Left Out: 16.376+/-0.005 $\chi^2$/NDF:332271.1/6

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 16.037+/-0.005 $\chi^2$/NDF:141811.5/5

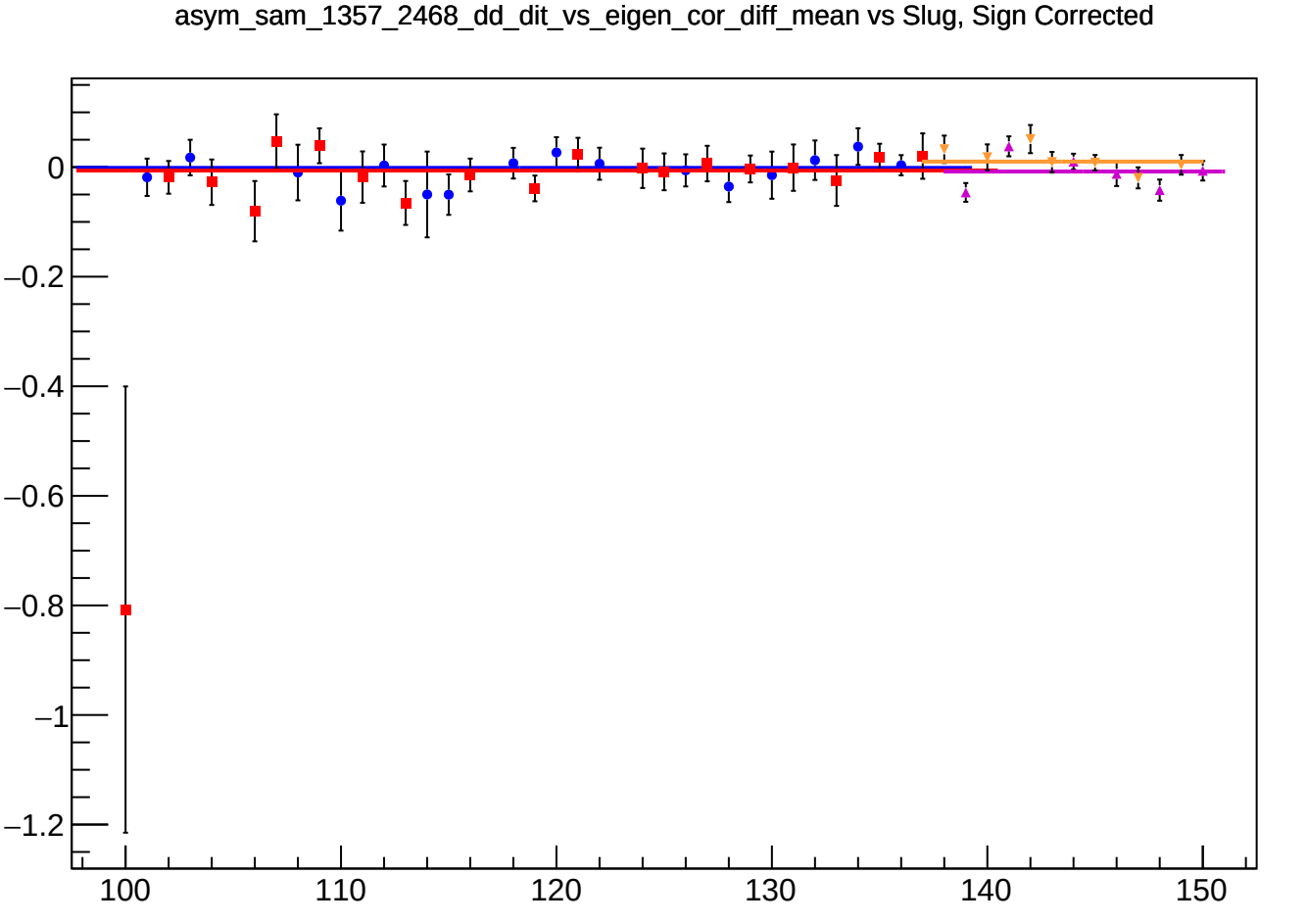
Left: 16.205+/-0.004 $\chi^2$/NDF: 476246.8/12

Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 18.038+/-0.004 $\chi^2$/NDF:1190667.5/21

Out: 18.186+/-0.004 $\chi^2$/NDF:1460000.3/25

All: 18.112+/-0.003 $\chi^2$/NDF: 2651424.6/47




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.010+/-0.007 $\chi^2$/NDF:6.0/6

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.008+/-0.007 $\chi^2$/NDF:16.1/5

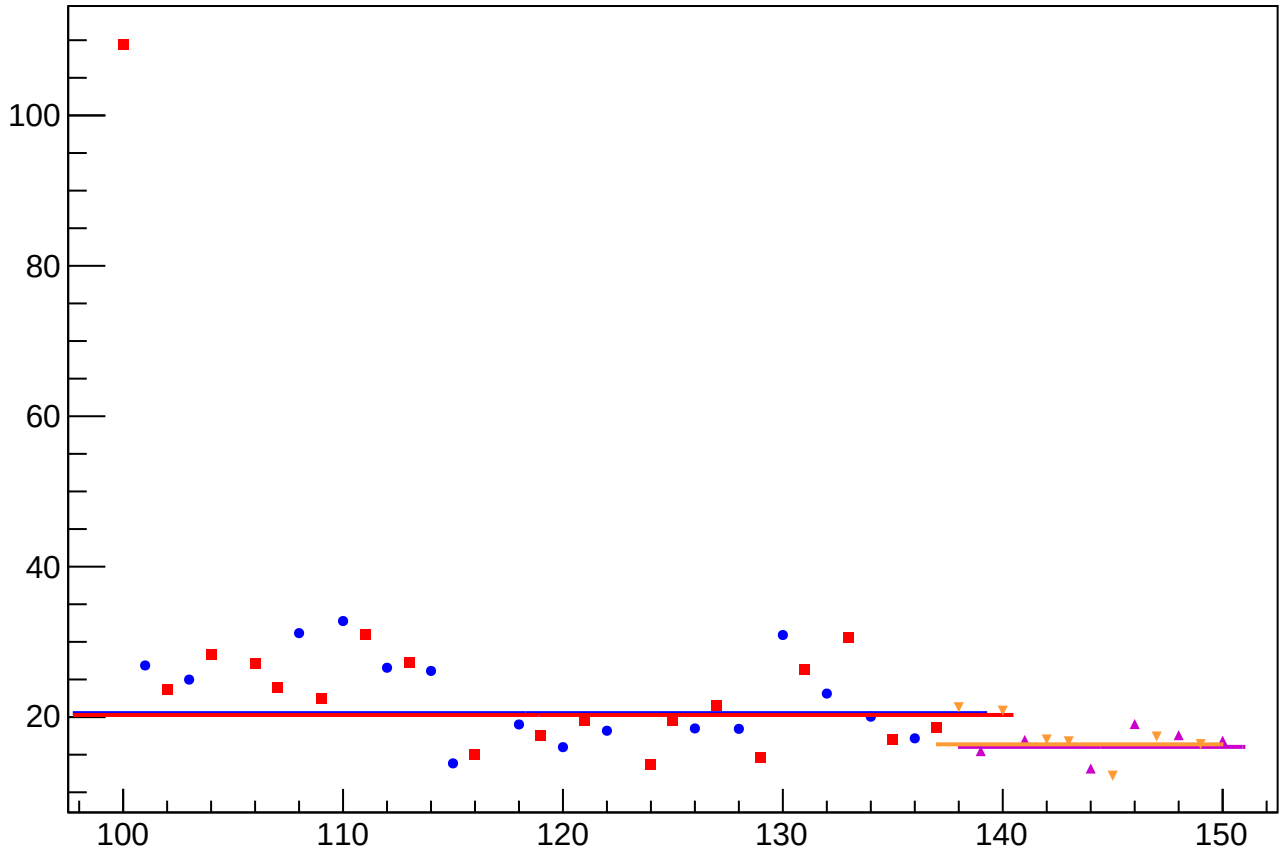
Left: 0.001+/-0.005 $\chi^2$/NDF: 25.2/12

Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.005 $\chi^2$/NDF:24.7/21

Out: 0.003+/-0.005 $\chi^2$/NDF:24.5/25

All: -0.001+/-0.004 $\chi^2$/NDF: 50.2/47




Right In: 20.522+/-0.006 $\chi^2$/NDF: 705998.4/15

Left Out: 16.376+/-0.005 $\chi^2$/NDF:332271.1/6

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 16.037+/-0.005 $\chi^2$/NDF:141811.5/5

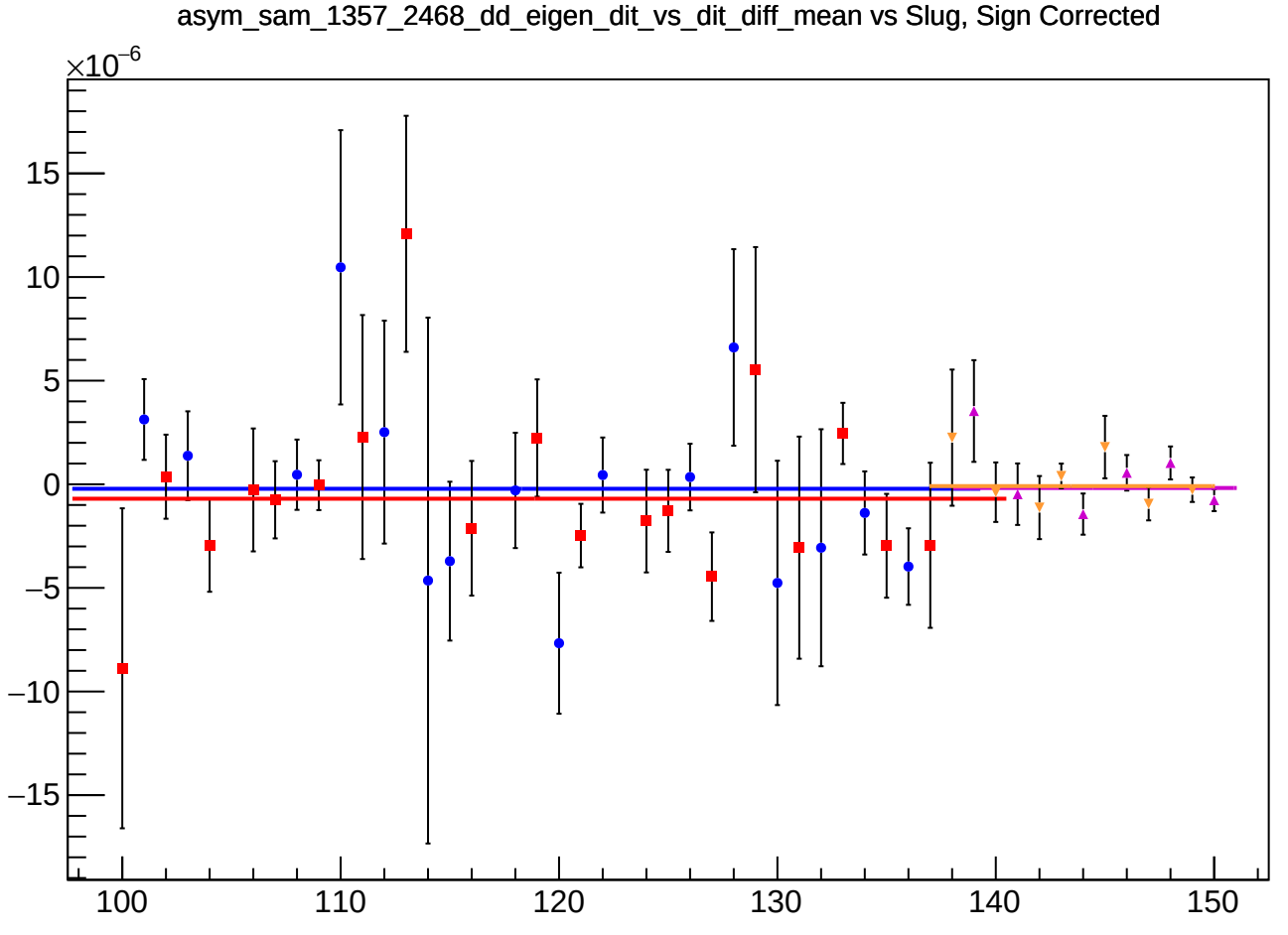
Left: 16.205+/-0.004 $\chi^2$/NDF: 476246.8/12

Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 18.038+/-0.004 $\chi^2$/NDF:1190667.5/21

Out: 18.186+/-0.004 $\chi^2$/NDF:1460000.3/25

All: 18.112+/-0.003 $\chi^2$/NDF: 2651424.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.2/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 12.7/12

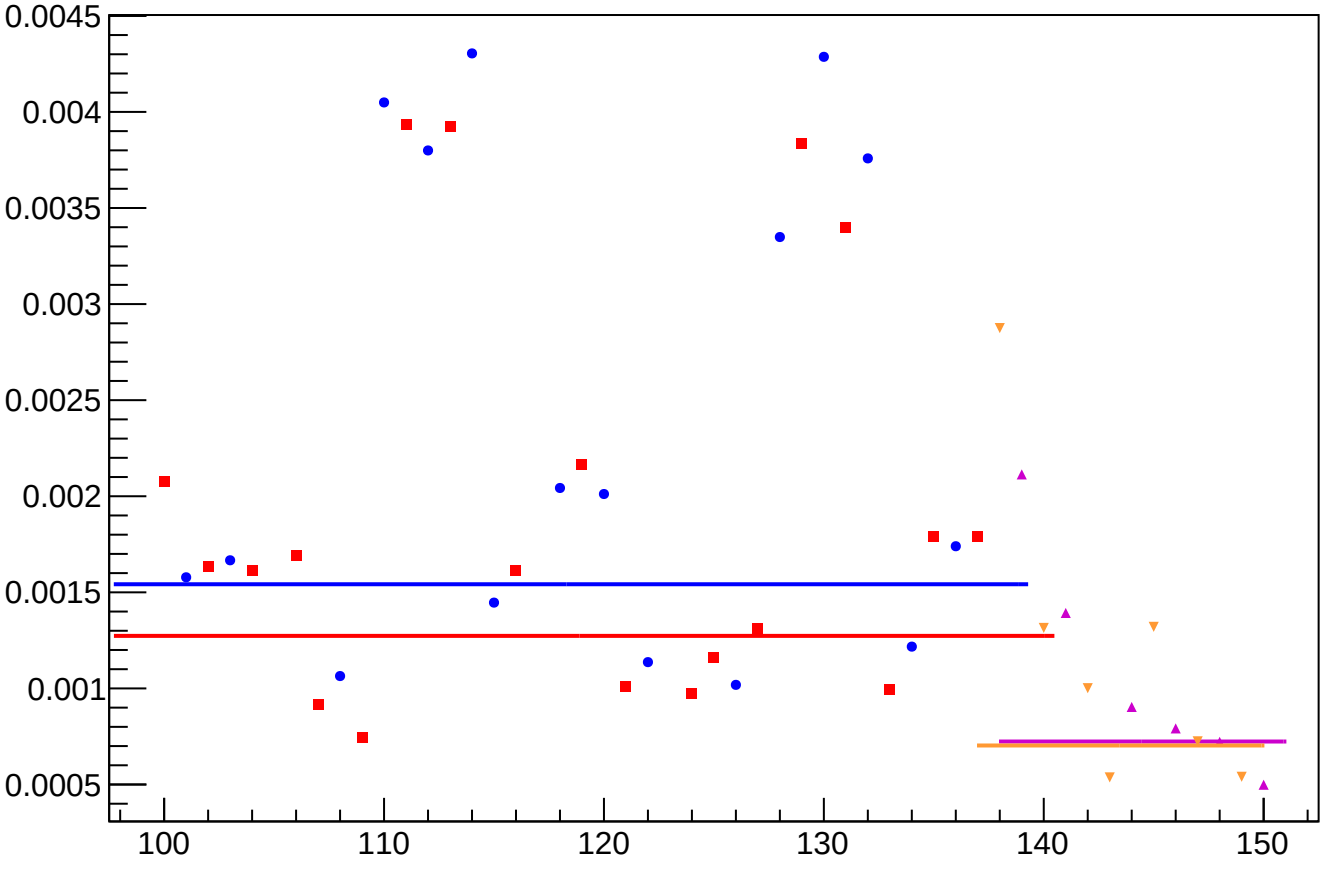
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.1/21

Out: -0.000+/-0.000 $\chi^2$/NDF:26.4/25

All: -0.000+/-0.000 $\chi^2$/NDF: 54.6/47

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2416805.2/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1957371.1/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2667436.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1490320.0/5

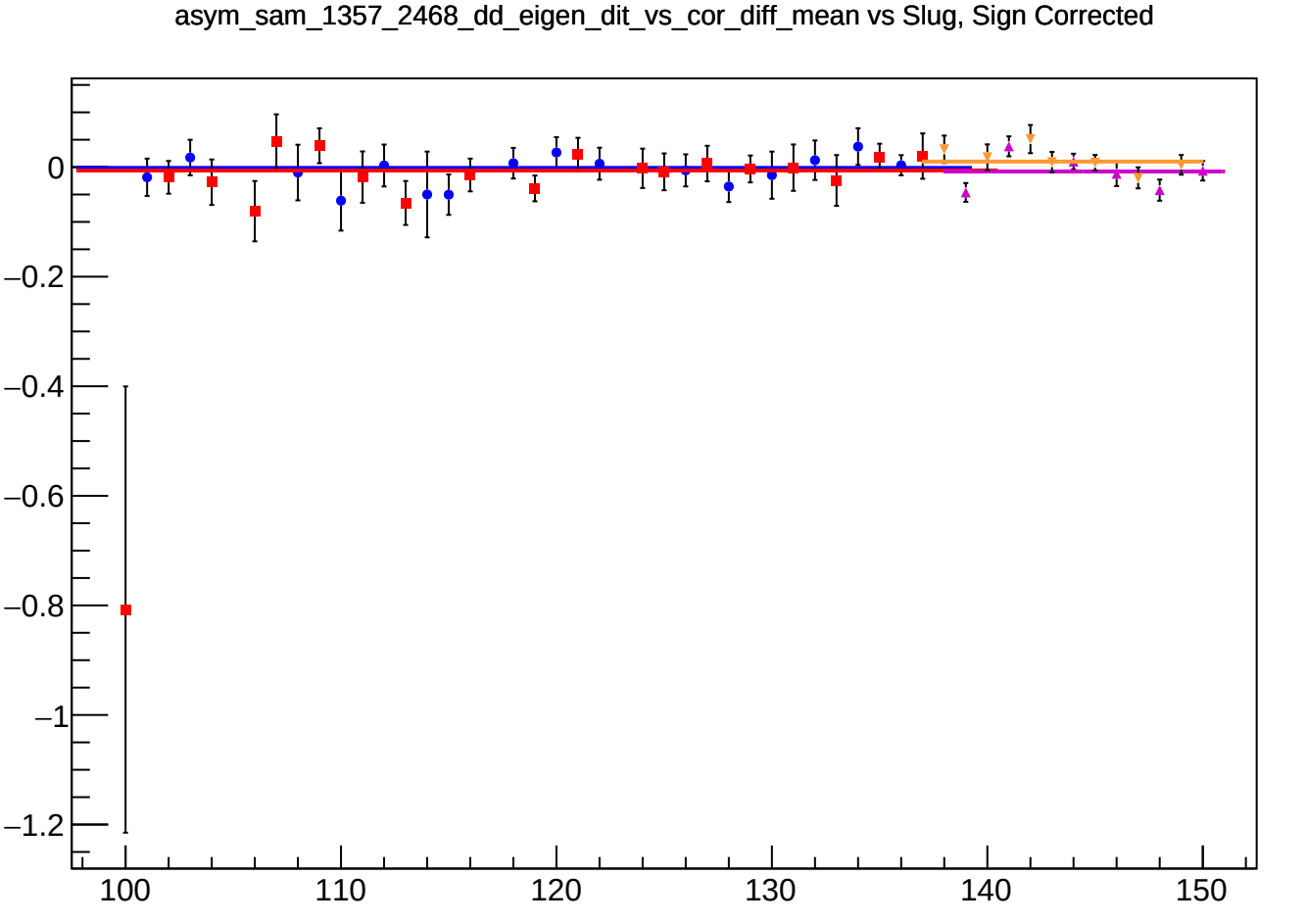
Left: 0.001+/-0.000 $\chi^2$/NDF: 3451283.3/12

Right: 0.001+/-0.000 $\chi^2$/NDF: 5298926.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:6481983.5/21

Out: 0.001+/-0.000 $\chi^2$/NDF:6293134.4/25

All: 0.001+/-0.000 $\chi^2$/NDF: 12797973.2/47




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.010+/-0.007 $\chi^2$/NDF:6.0/6

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.008+/-0.007 $\chi^2$/NDF:16.1/5

Left: 0.001+/-0.005 $\chi^2$/NDF: 25.2/12

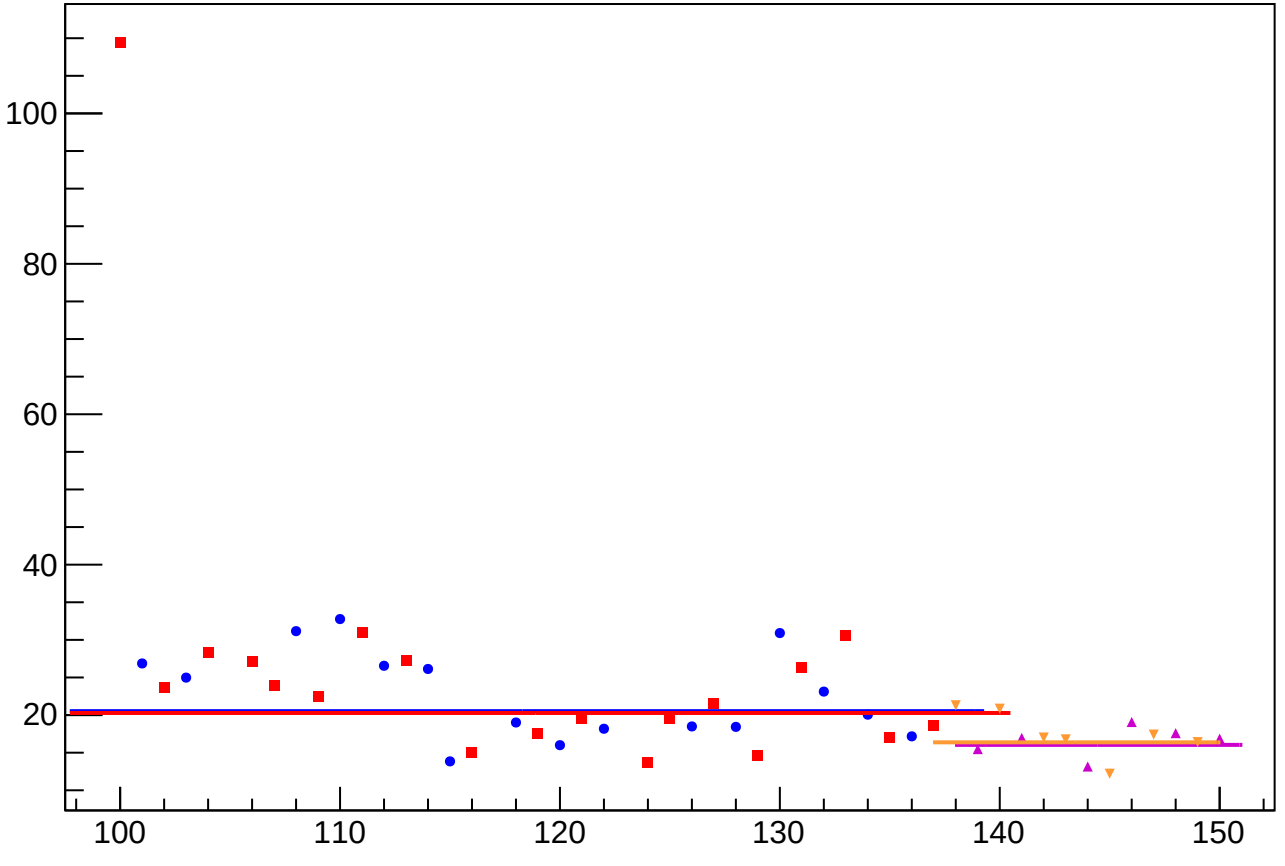
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.005 $\chi^2$/NDF:24.7/21

Out: 0.003+/-0.005 $\chi^2$/NDF:24.5/25

All: -0.001+/-0.004 $\chi^2$/NDF: 50.2/47

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.521+/-0.006 $\chi^2$/NDF: 705877.0/15

Left Out: 16.376+/-0.005 $\chi^2$/NDF:332200.4/6

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 16.037+/-0.005 $\chi^2$/NDF:141812.3/5

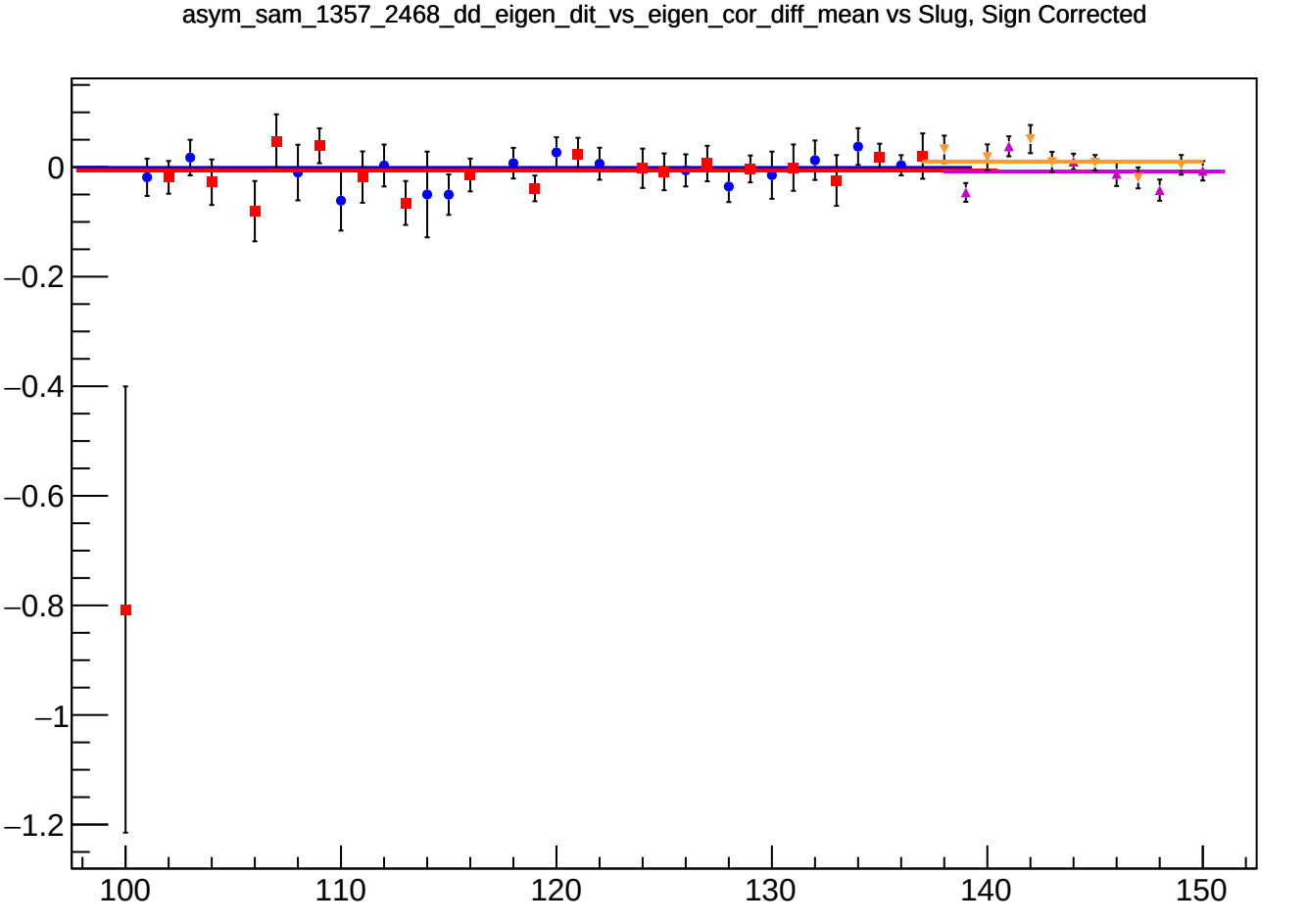
Left: 16.205+/-0.004 $\chi^2$/NDF: 476179.5/12

Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 18.038+/-0.004 $\chi^2$/NDF:1190478.3/21

Out: 18.186+/-0.004 $\chi^2$/NDF:1459827.5/25

All: 18.112+/-0.003 $\chi^2$/NDF: 2651063.2/47




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.010+/-0.007 $\chi^2$/NDF:6.0/6

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.008+/-0.007 $\chi^2$/NDF:16.1/5

Left: 0.001+/-0.005 $\chi^2$/NDF: 25.2/12

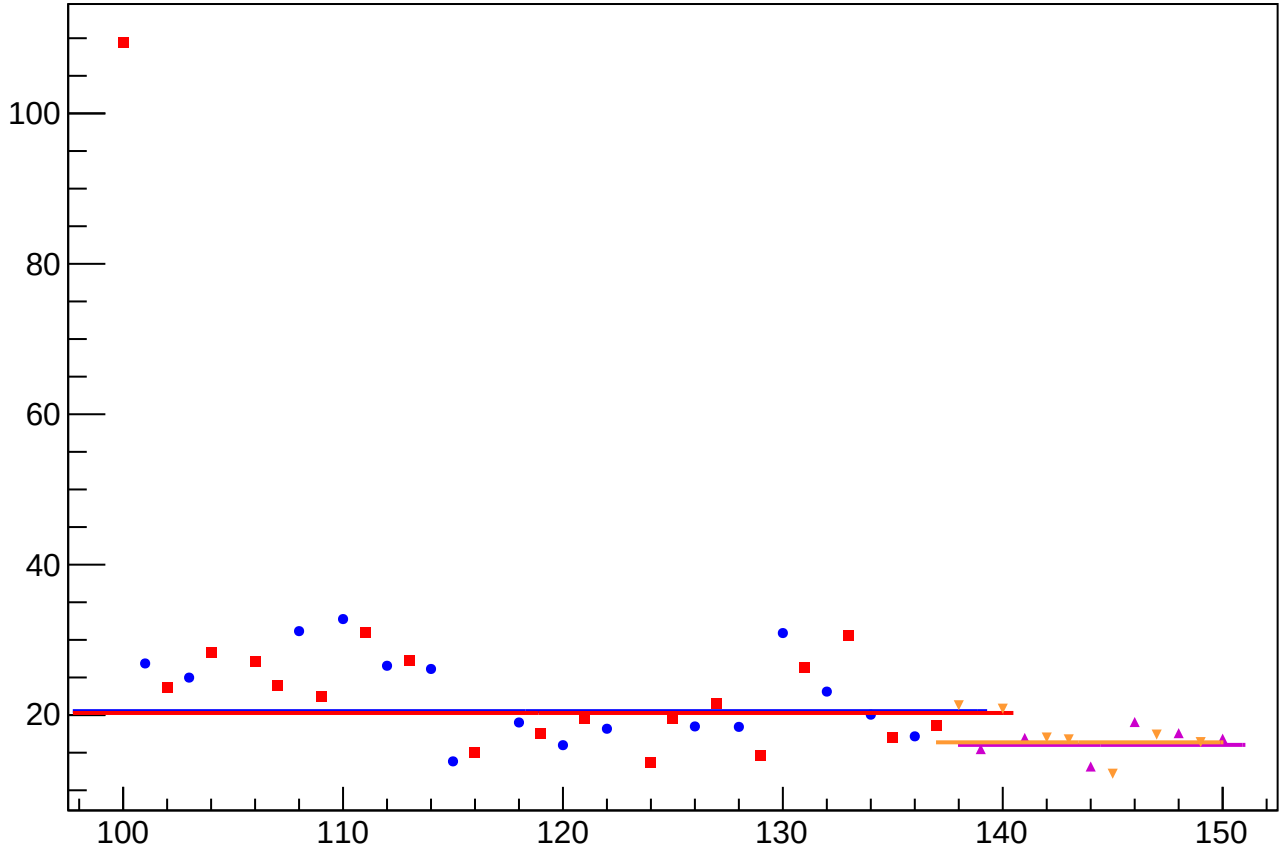
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.005 $\chi^2$/NDF:24.7/21

Out: 0.003+/-0.005 $\chi^2$/NDF:24.5/25

All: -0.001+/-0.004 $\chi^2$/NDF: 50.2/47

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.521+/-0.006 $\chi^2$/NDF: 705877.0/15

Left Out: 16.376+/-0.005 $\chi^2$/NDF:332200.4/6

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 16.037+/-0.005 $\chi^2$/NDF:141812.3/5

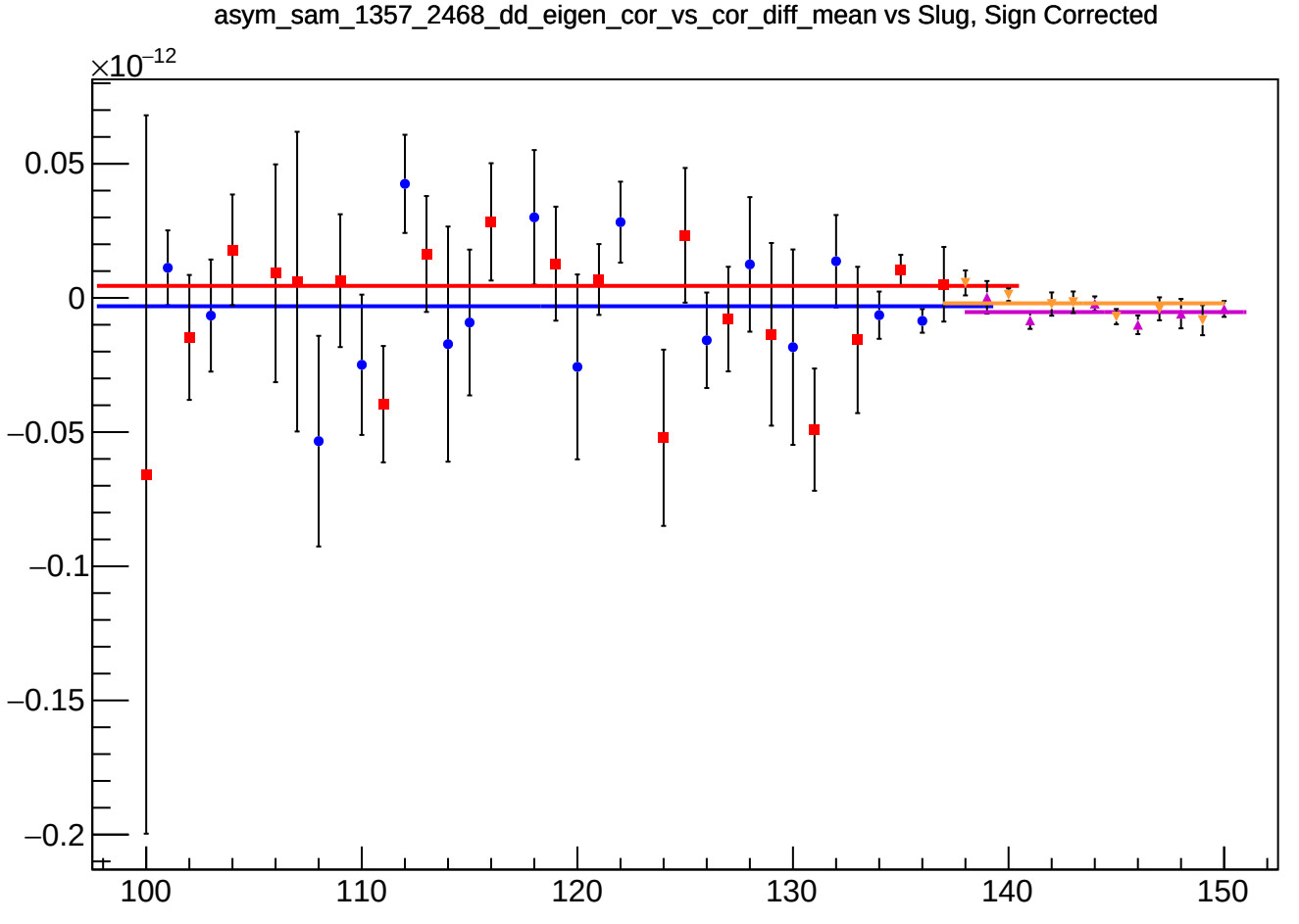
Left: 16.205+/-0.004 $\chi^2$/NDF: 476179.5/12

Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 18.038+/-0.004 $\chi^2$/NDF:1190478.3/21

Out: 18.186+/-0.004 $\chi^2$/NDF:1459827.5/25

All: 18.112+/-0.003 $\chi^2$/NDF: 2651063.2/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.1/5

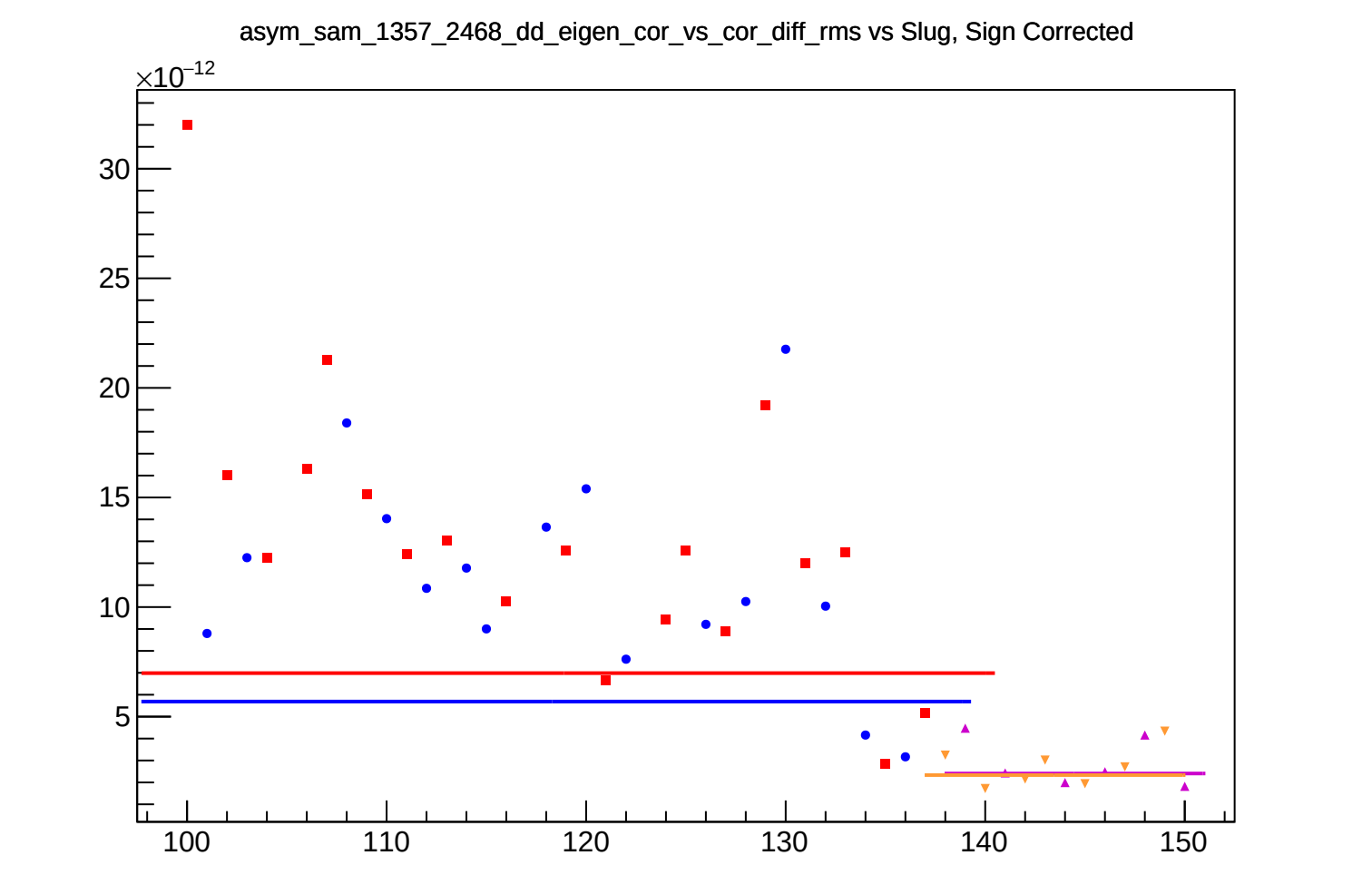
Left: -0.000+/-0.000 $\chi^2$/NDF: 17.0/12

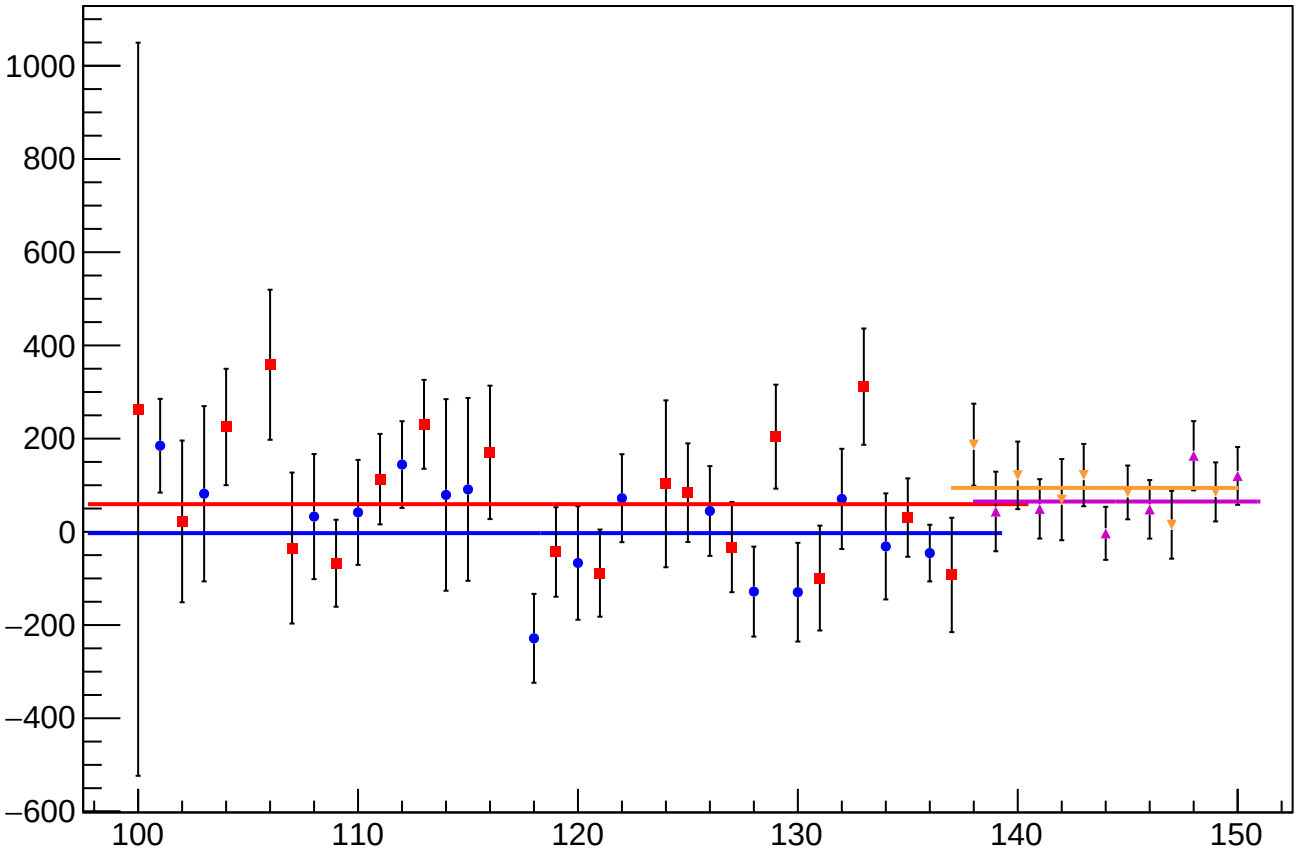
Right: 0.000+/-0.000 $\chi^2$/NDF: 40.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.5/21

Out: -0.000+/-0.000 $\chi^2$/NDF:30.2/25

All: -0.000+/-0.000 $\chi^2$/NDF: 59.6/47


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
30
25
20
15
10
5
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2705902.9/15
Left Out: 0.000+/-0.000 χ²/NDF:581261.7/6
Right Out: 0.000+/-0.000 χ²/NDF: 3108073.7/18
Left In: 0.000+/-0.000 χ²/NDF:563230.0/5
Left: 0.000+/-0.000 χ²/NDF: 1147145.6/12
Right: 0.000+/-0.000 χ²/NDF: 5945633.6/34
In: 0.000+/-0.000 χ²/NDF:4976180.5/21
Out: 0.000+/-0.000 χ²/NDF:6272306.4/25
All: 0.000+/-0.000 χ²/NDF: 11253820.5/47




Right In: -2.766+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 94.278+/-26.602 $\chi^2$/NDF:2.7/6

Right Out: 59.349+/-26.382 $\chi^2$/NDF: 25.7/18

Left In: 65.040+/-26.846 $\chi^2$/NDF:4.2/5

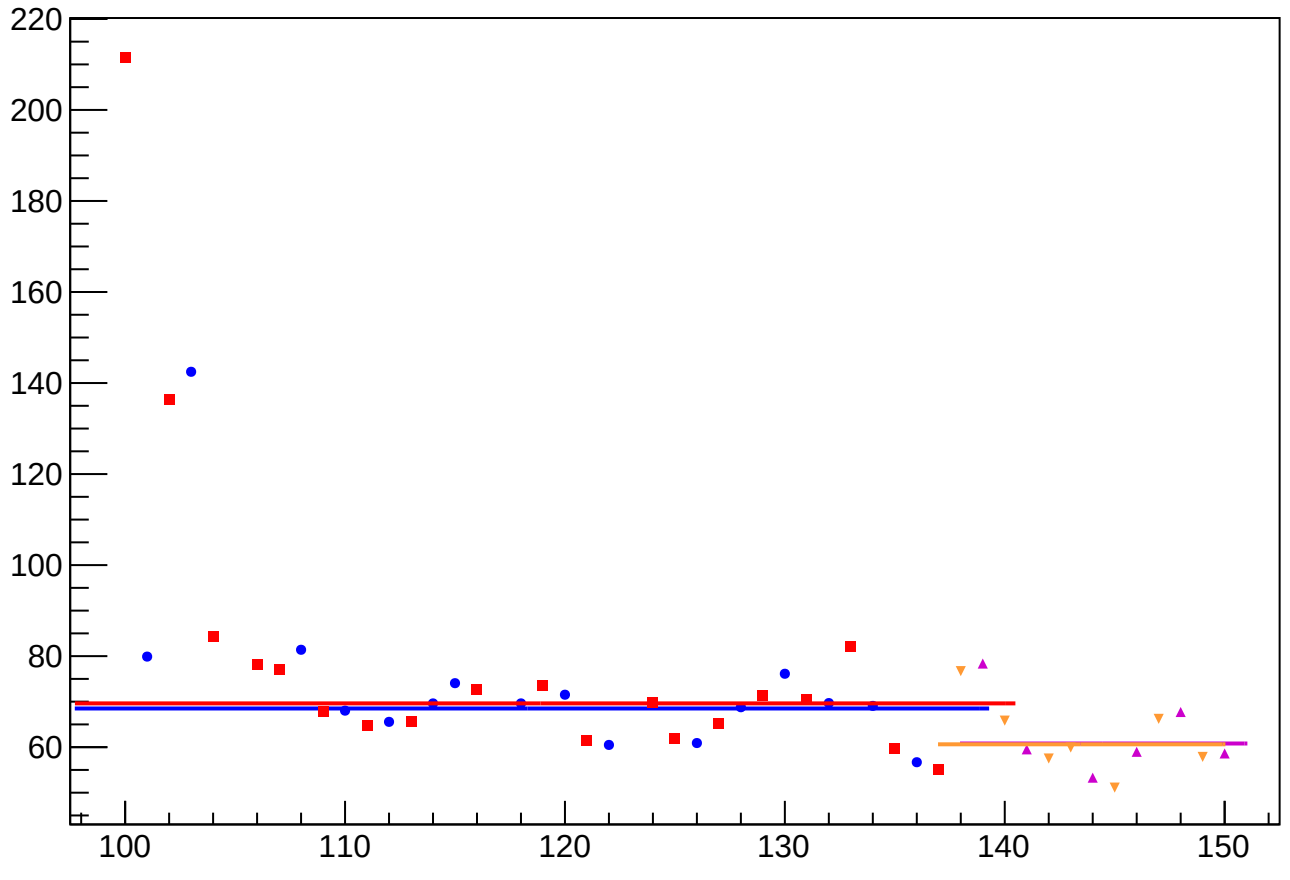
Left: 79.792+/-18.896 $\chi^2$/NDF: 7.5/12

Right: 28.091+/-18.595 $\chi^2$/NDF: 46.2/34

In: 30.328+/-18.755 $\chi^2$/NDF:25.1/21

Out: 76.668+/-18.733 $\chi^2$/NDF:29.3/25

All: 53.526+/-13.254 $\chi^2$/NDF: 57.5/47




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471865.0/15

Left Out: 60.629+/-0.019 $\chi^2$/NDF:149817.7/6

Right Out: 69.620+/-0.019 $\chi^2$/NDF: 520403.9/18

Left In: 60.806+/-0.019 $\chi^2$/NDF:141705.9/5

Left: 60.717+/-0.013 $\chi^2$/NDF: 291567.2/12

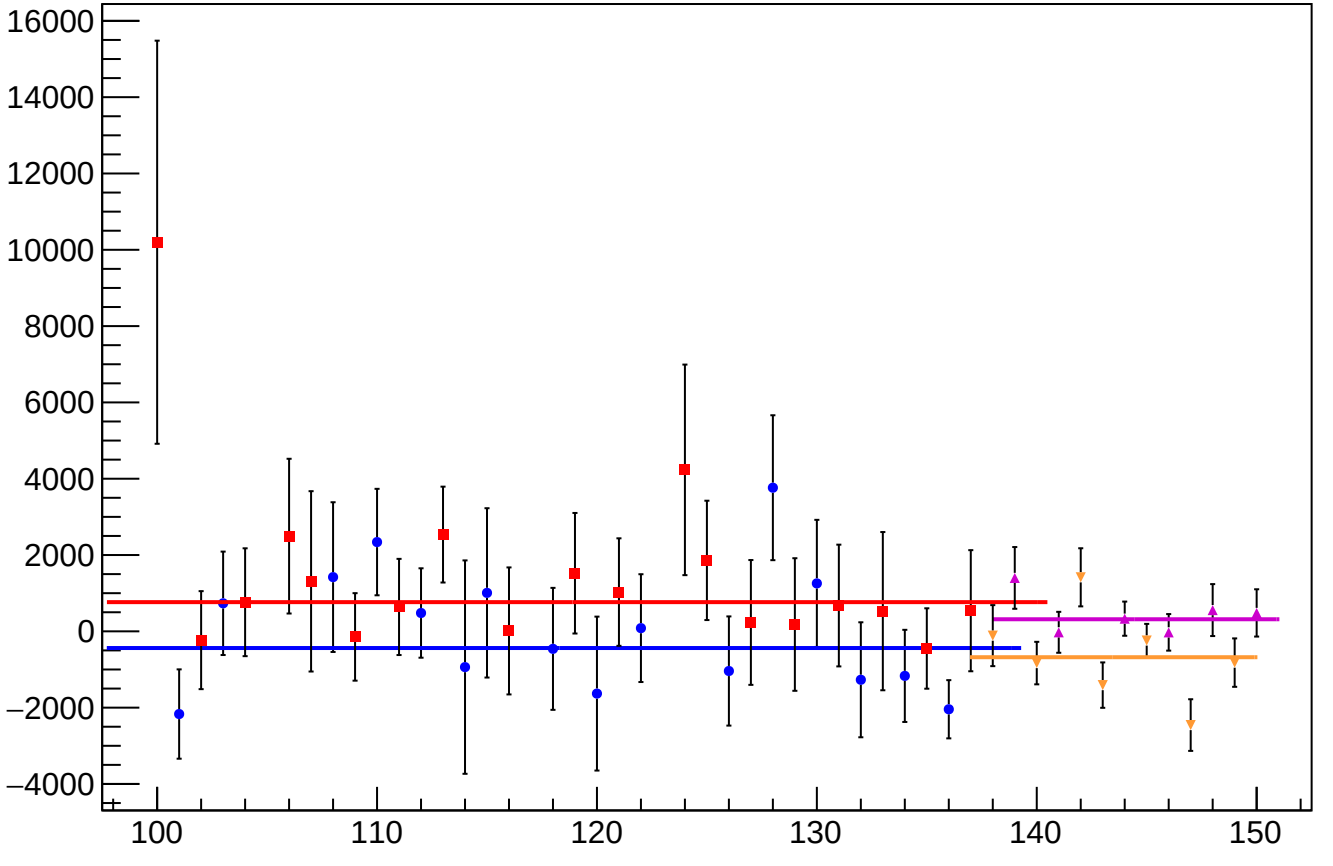
Right: 69.056+/-0.013 $\chi^2$/NDF: 994086.4/34

In: 64.744+/-0.013 $\chi^2$/NDF:697637.0/21

Out: 65.162+/-0.013 $\chi^2$/NDF:785379.6/25

All: 64.953+/-0.009 $\chi^2$/NDF: 1483513.6/47

asym_sam_12345678_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -437.444+/-348.880 $\chi^2$/NDF: 20.6/15

Left Out: -678.357+/-227.882 $\chi^2$/NDF:17.6/6

Right Out: 765.341+/-353.052 $\chi^2$/NDF: 11.3/18

Left In: 316.625+/-228.786 $\chi^2$/NDF:2.9/5

Left: -182.836+/-161.455 $\chi^2$/NDF: 30.0/12

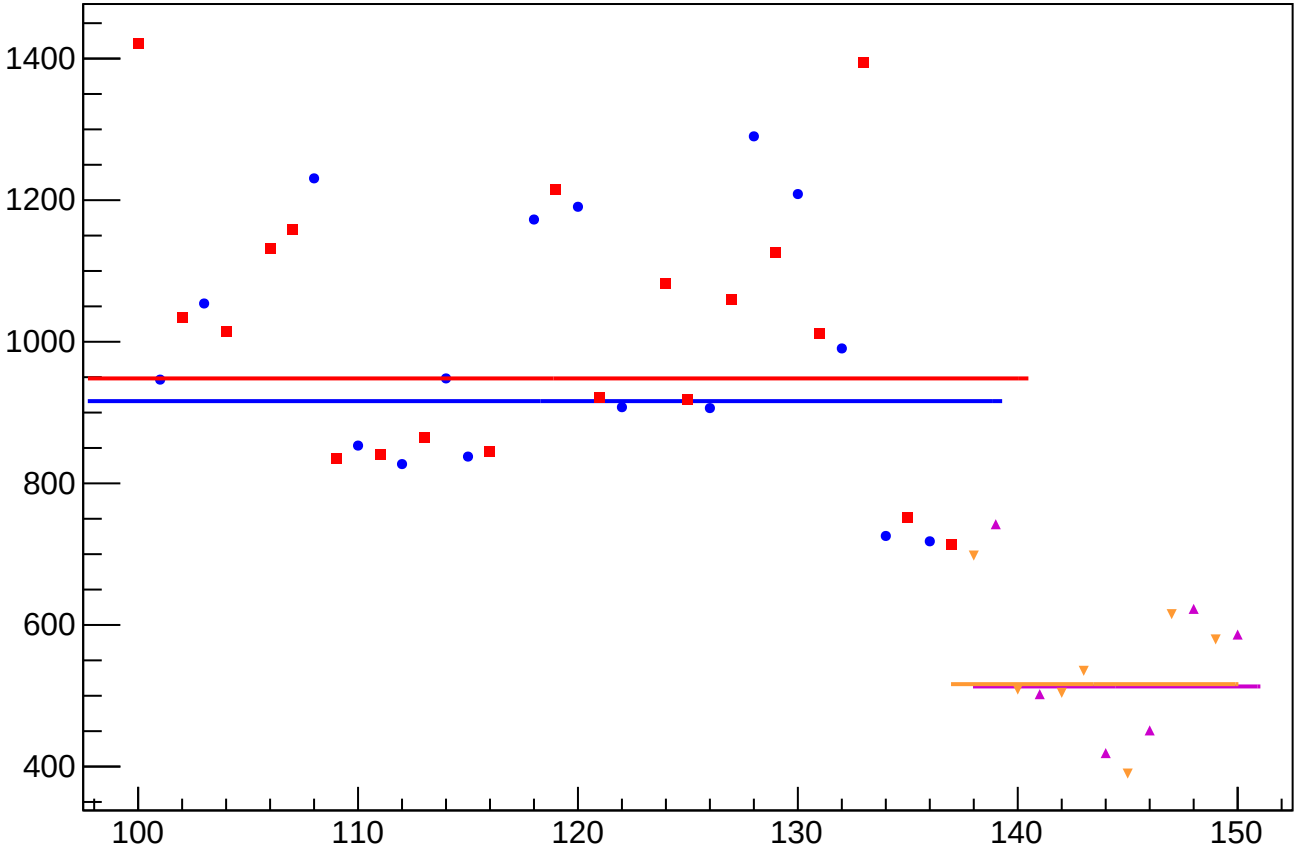
Right: 156.799+/-248.157 $\chi^2$/NDF: 37.7/34

In: 89.862+/-191.318 $\chi^2$/NDF:26.7/21

Out: -253.773+/-191.462 $\chi^2$/NDF:40.7/25

All: -81.826+/-135.333 $\chi^2$/NDF: 69.1/47

asym_sam_12345678_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 916.171+/-0.247 $\chi^2$/NDF: 509126.4/15

Left Out: 516.406+/-0.161 $\chi^2$/NDF:336147.5/6

Right Out: 948.235+/-0.250 $\chi^2$/NDF: 415192.3/18

Left In: 513.154+/-0.162 $\chi^2$/NDF:362954.9/5

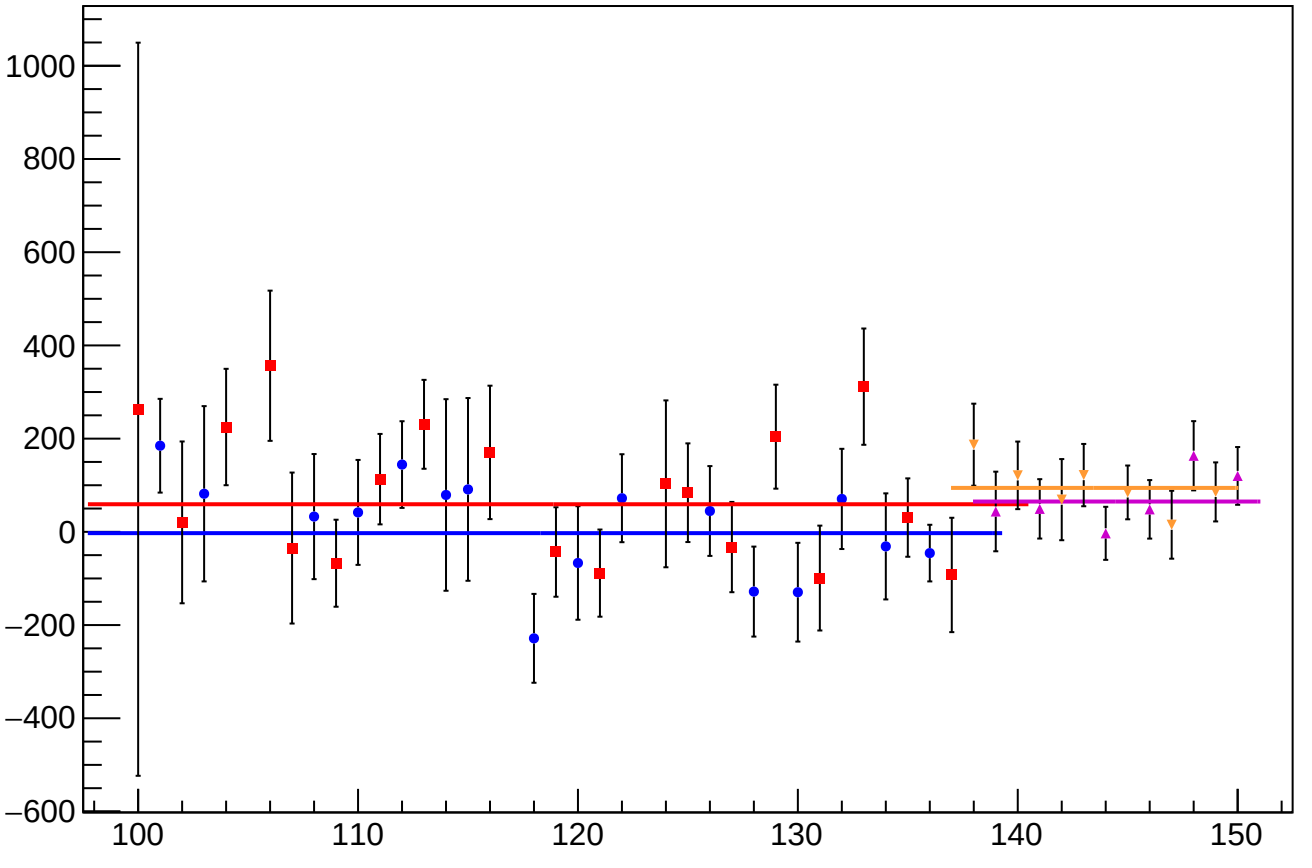
Left: 514.787+/-0.114 $\chi^2$/NDF: 699305.3/12

Right: 932.012+/-0.175 $\chi^2$/NDF: 932665.3/34

In: 634.348+/-0.135 $\chi^2$/NDF:2738360.8/21

Out: 643.405+/-0.135 $\chi^2$/NDF:2863480.1/25

All: 638.873+/-0.096 $\chi^2$/NDF: 5604080.0/47




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 94.287+/-26.602 $\chi^2$/NDF:2.7/6

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 65.041+/-26.846 $\chi^2$/NDF:4.2/5

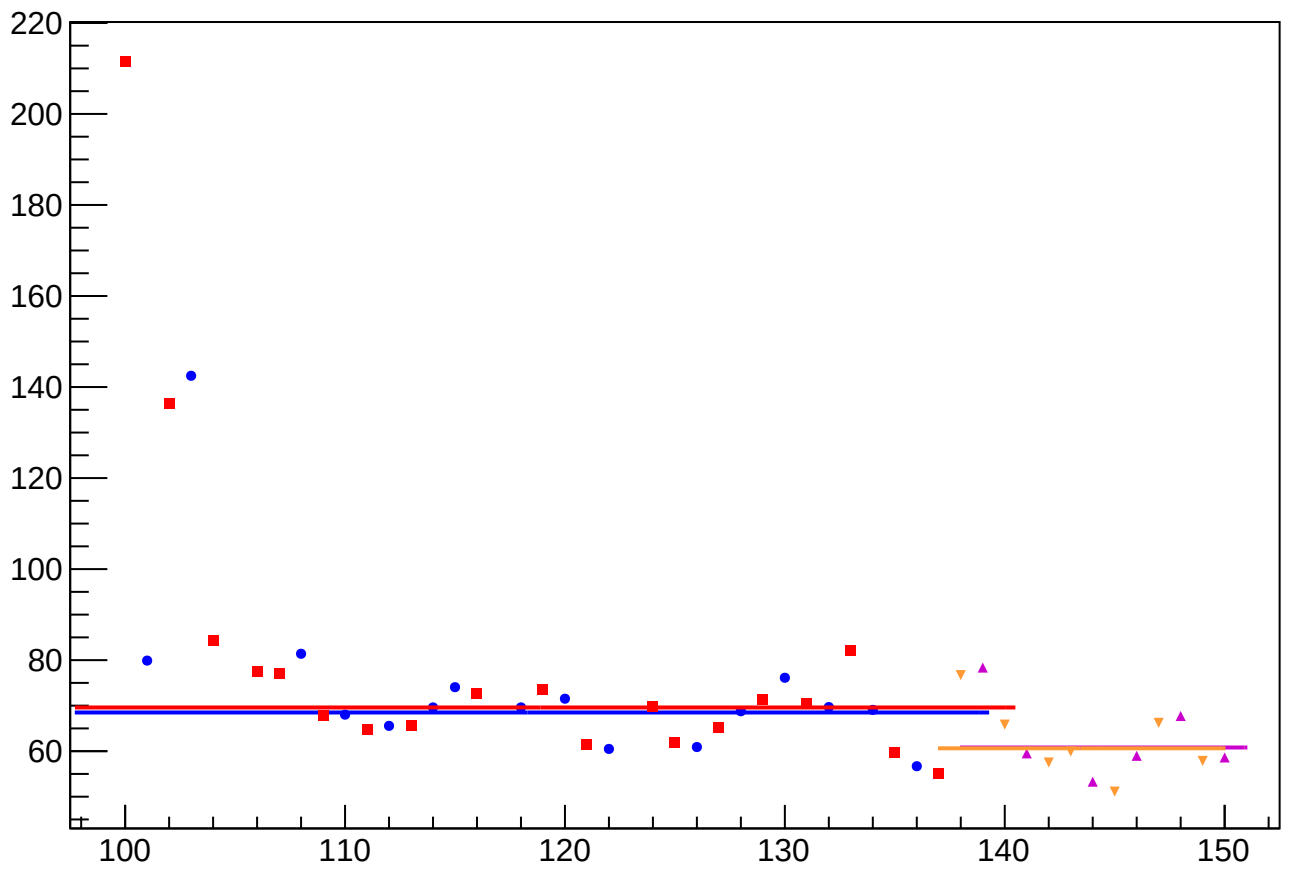
Left: 79.797+/-18.896 $\chi^2$/NDF: 7.5/12

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 30.325+/-18.755 $\chi^2$/NDF:25.1/21

Out: 76.612+/-18.733 $\chi^2$/NDF:29.3/25

All: 53.496+/-13.254 $\chi^2$/NDF: 57.4/47




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 60.629+/-0.019 $\chi^2$/NDF:149817.6/6

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 60.806+/-0.019 $\chi^2$/NDF:141705.9/5

Left: 60.717+/-0.013 $\chi^2$/NDF: 291567.2/12

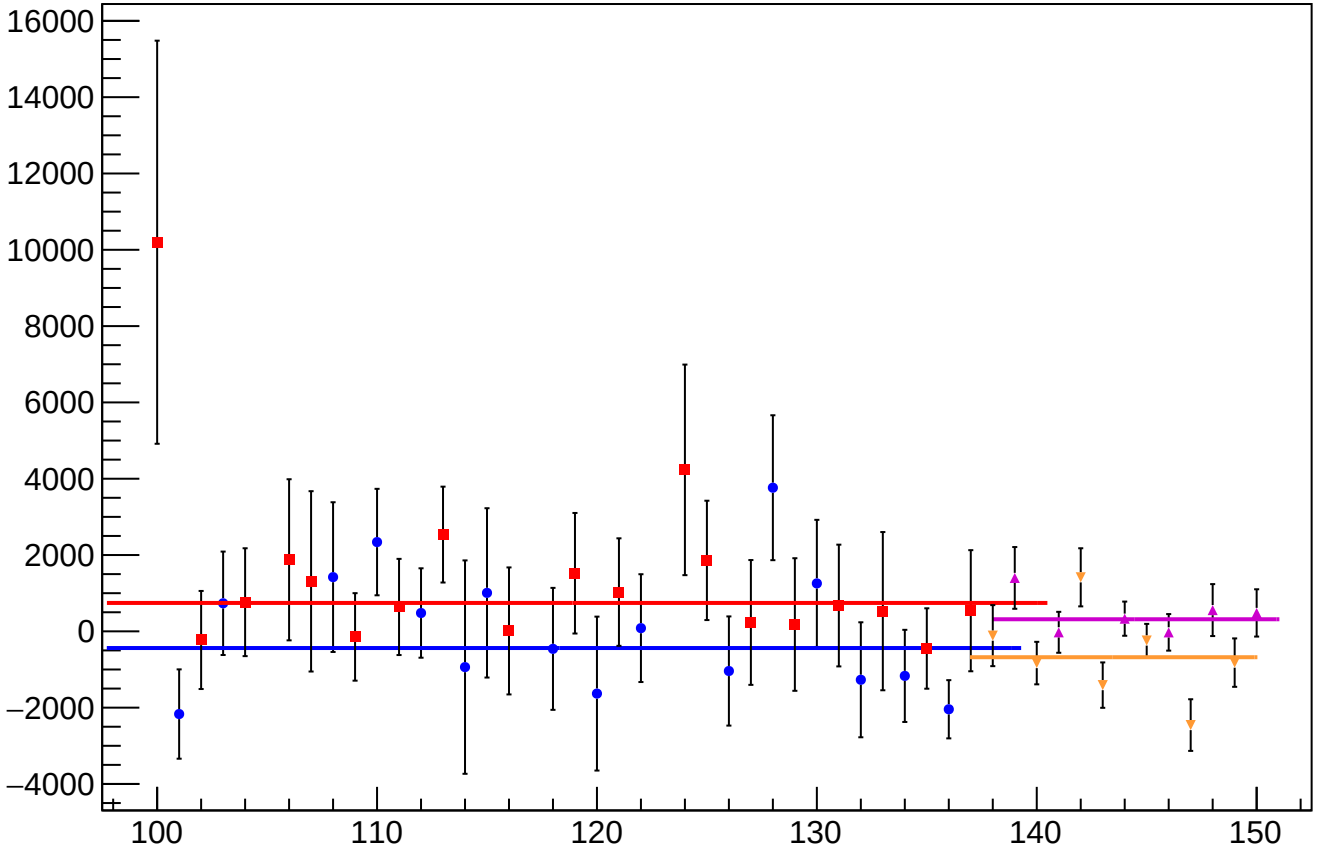
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 64.744+/-0.013 $\chi^2$/NDF:697640.0/21

Out: 65.152+/-0.013 $\chi^2$/NDF:784267.2/25

All: 64.948+/-0.009 $\chi^2$/NDF: 1482381.0/47

asym_sam_12345678_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -437.415+/-348.881 $\chi^2$/NDF: 20.6/15

Left Out: -678.349+/-227.881 $\chi^2$/NDF:17.6/6

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 316.630+/-228.786 $\chi^2$/NDF:2.9/5

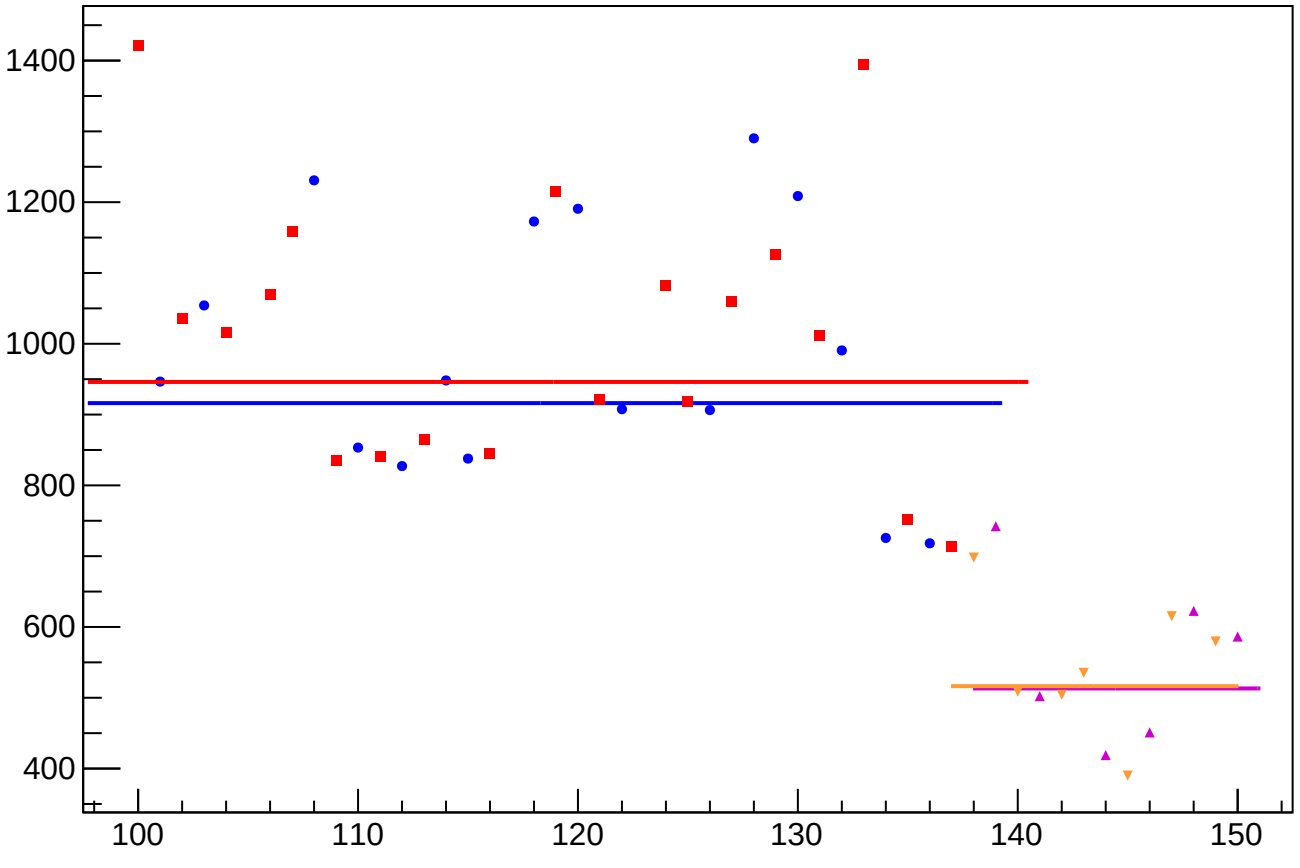
Left: -182.830+/-161.455 $\chi^2$/NDF: 30.0/12

Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 89.876+/-191.318 $\chi^2$/NDF:26.7/21

Out: -260.658+/-191.531 $\chi^2$/NDF:39.9/25

All: -85.196+/-135.358 $\chi^2$/NDF: 68.3/47




Right In: 916.174+/-0.247 $\chi^2$/NDF: 509149.2/15

Left Out: 516.406+/-0.161 $\chi^2$/NDF:336148.7/6

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 513.154+/-0.162 $\chi^2$/NDF:362953.9/5

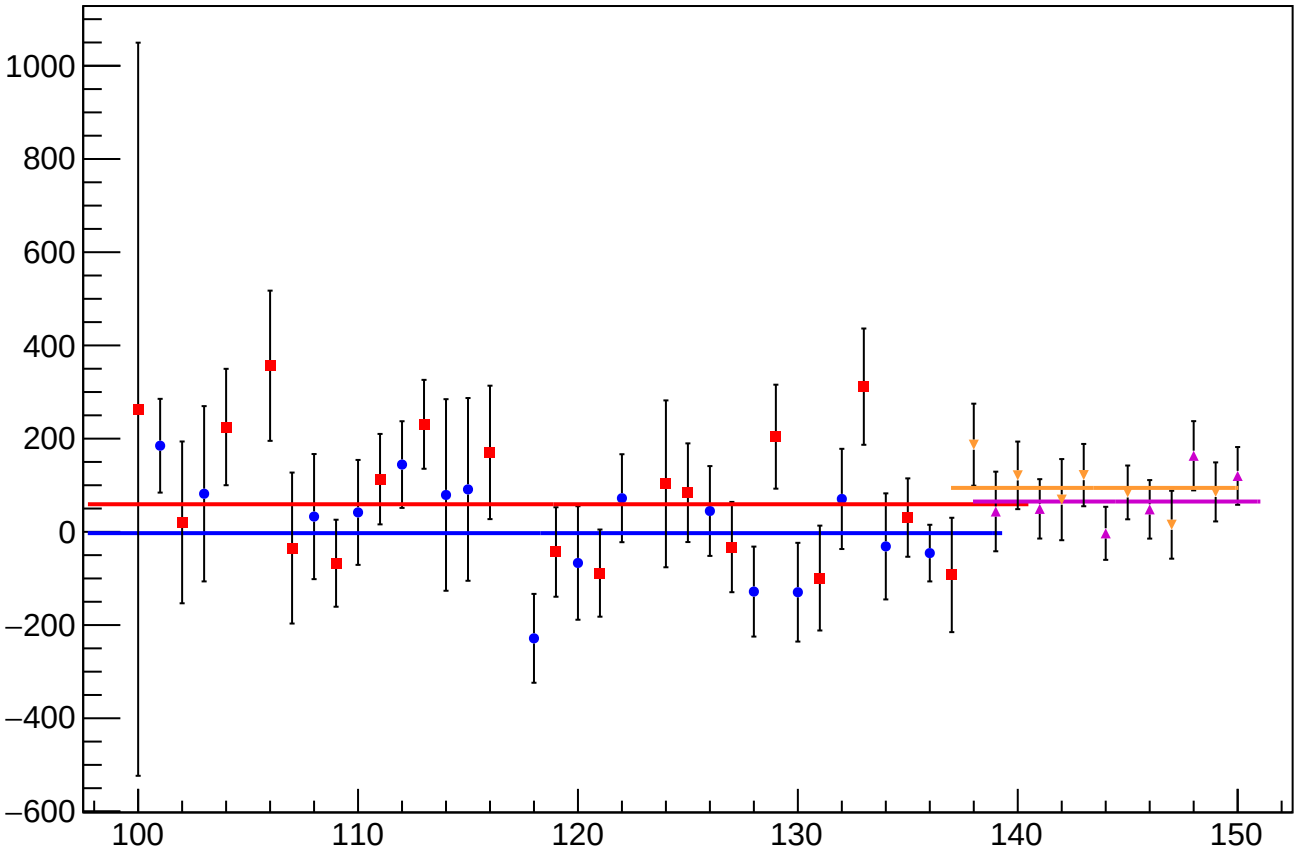
Left: 514.786+/-0.114 $\chi^2$/NDF: 699305.4/12

Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 634.349+/-0.135 $\chi^2$/NDF:2738402.0/21

Out: 642.554+/-0.135 $\chi^2$/NDF:2829154.2/25

All: 638.447+/-0.096 $\chi^2$/NDF: 5569393.6/47




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 94.287+/-26.602 $\chi^2$/NDF:2.7/6

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 65.041+/-26.846 $\chi^2$/NDF:4.2/5

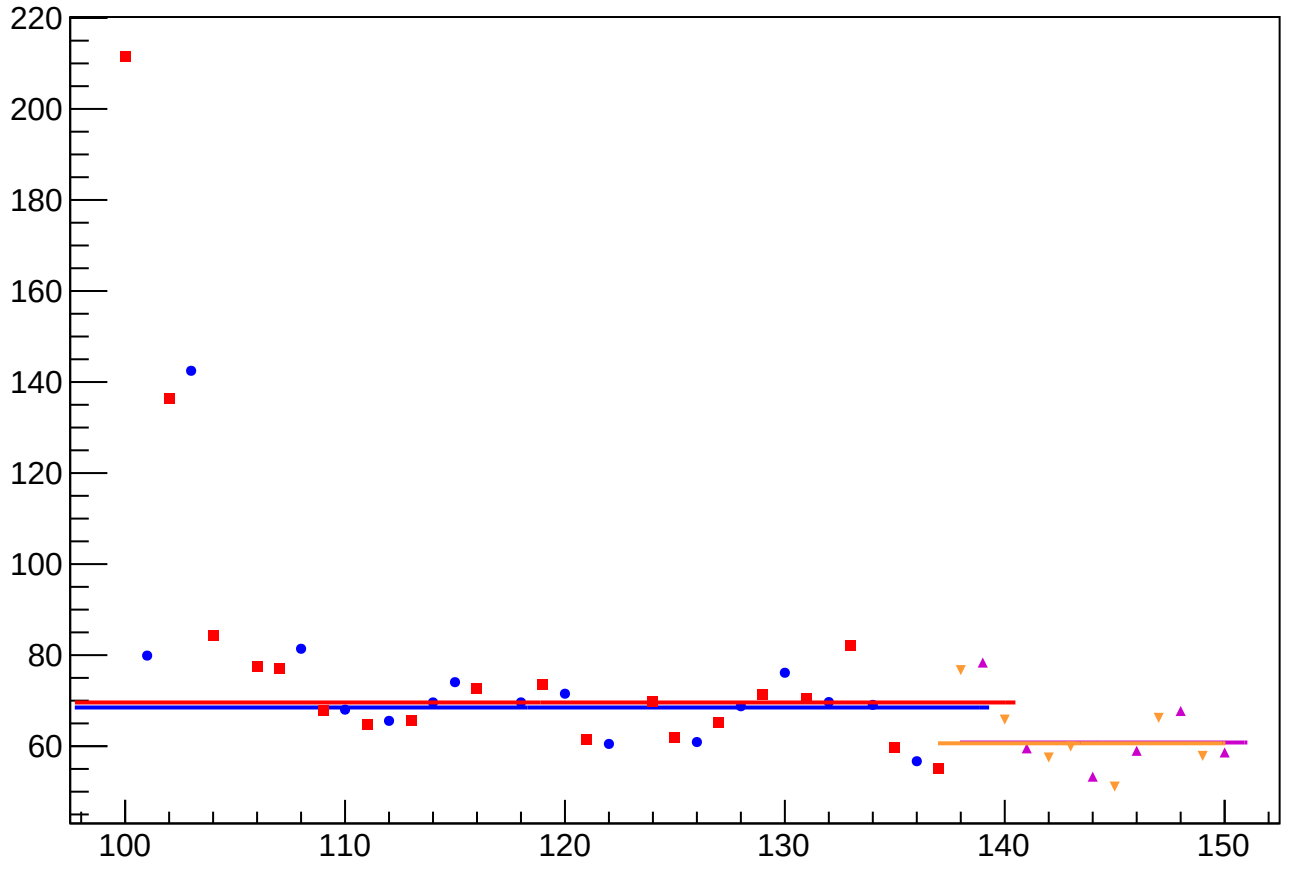
Left: 79.797+/-18.896 $\chi^2$/NDF: 7.5/12

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 30.325+/-18.755 $\chi^2$/NDF:25.1/21

Out: 76.612+/-18.733 $\chi^2$/NDF:29.3/25

All: 53.496+/-13.254 $\chi^2$/NDF: 57.4/47




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 60.629+/-0.019 $\chi^2$/NDF:149817.6/6

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 60.806+/-0.019 $\chi^2$/NDF:141705.9/5

Left: 60.717+/-0.013 $\chi^2$/NDF: 291567.2/12

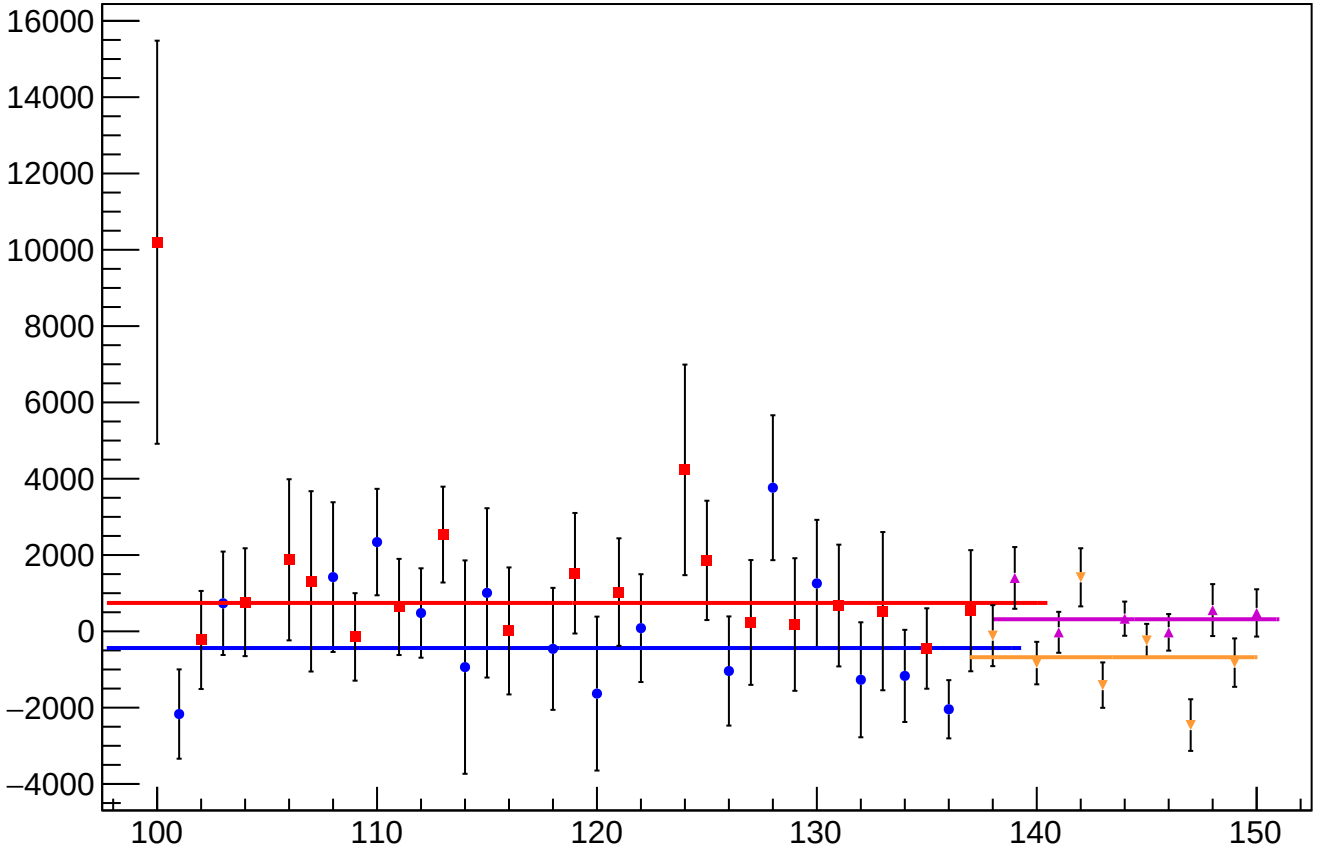
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 64.744+/-0.013 $\chi^2$/NDF:697640.0/21

Out: 65.152+/-0.013 $\chi^2$/NDF:784267.2/25

All: 64.948+/-0.009 $\chi^2$/NDF: 1482381.0/47

asym_sam_12345678_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -437.415+/-348.881 $\chi^2$/NDF: 20.6/15

Left Out: -678.349+/-227.881 $\chi^2$/NDF:17.6/6

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 316.630+/-228.786 $\chi^2$/NDF:2.9/5

Left: -182.830+/-161.455 $\chi^2$/NDF: 30.0/12

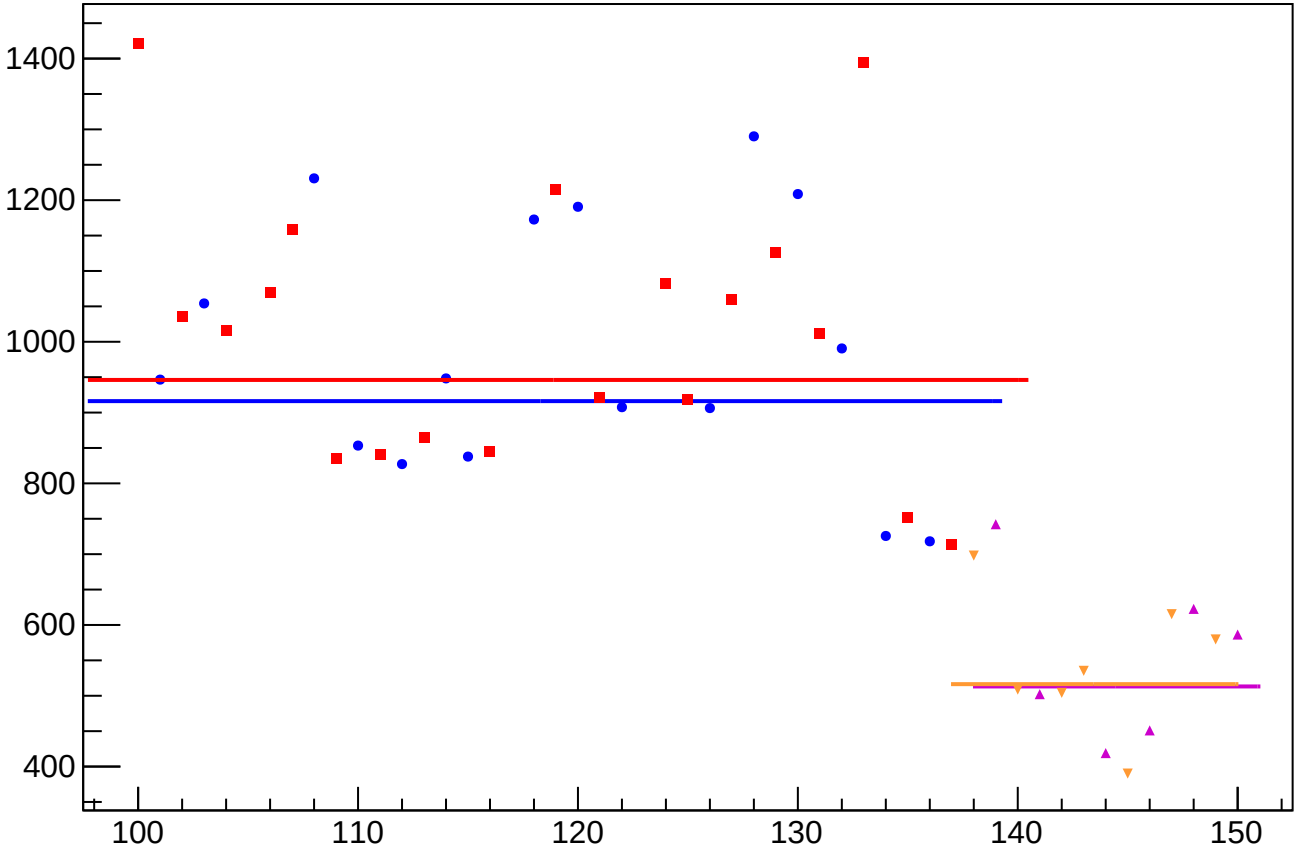
Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 89.876+/-191.318 $\chi^2$/NDF:26.7/21

Out: -260.658+/-191.531 $\chi^2$/NDF:39.9/25

All: -85.196+/-135.358 $\chi^2$/NDF: 68.3/47

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 916.174+/-0.247 $\chi^2$/NDF: 509149.2/15

Left Out: 516.406+/-0.161 $\chi^2$/NDF:336148.7/6

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 513.154+/-0.162 $\chi^2$/NDF:362953.9/5

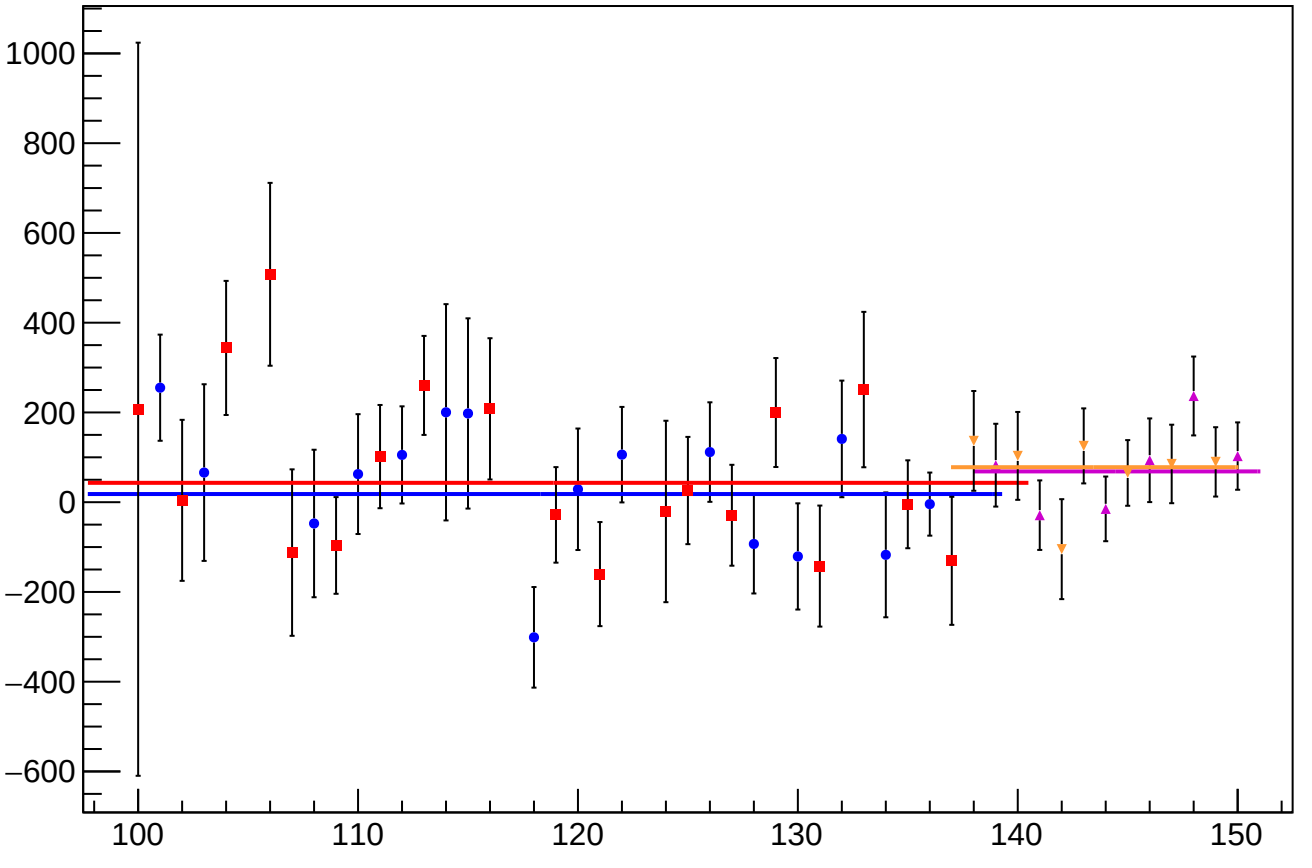
Left: 514.786+/-0.114 $\chi^2$/NDF: 699305.4/12

Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 634.349+/-0.135 $\chi^2$/NDF:2738402.0/21

Out: 642.554+/-0.135 $\chi^2$/NDF:2829154.2/25

All: 638.447+/-0.096 $\chi^2$/NDF: 5569393.6/47




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 77.962+/-33.447 $\chi^2$/NDF:3.4/6

Right Out: 43.146+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 68.583+/-33.357 $\chi^2$/NDF:6.9/5

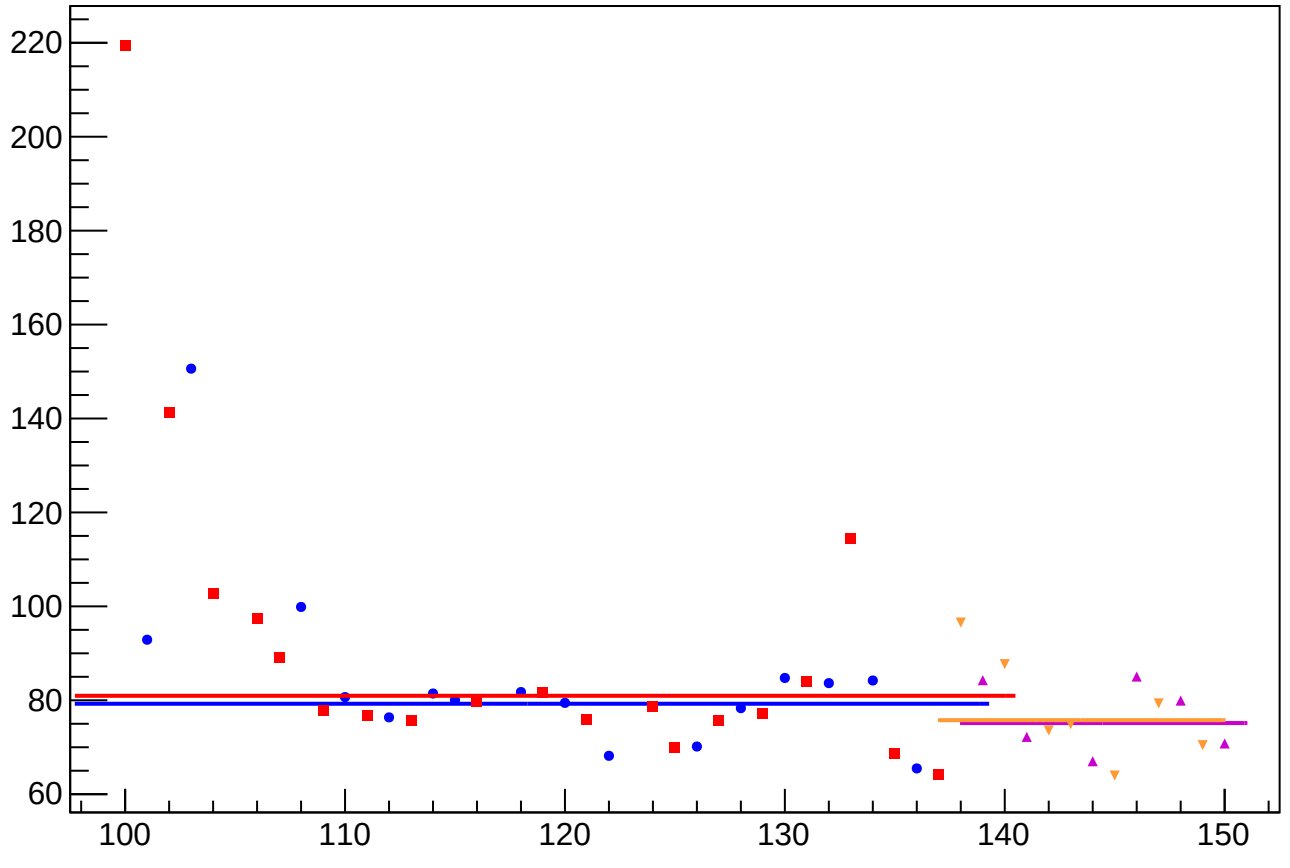
Left: 73.260+/-23.619 $\chi^2$/NDF: 10.3/12

Right: 30.513+/-21.585 $\chi^2$/NDF: 48.2/34

In: 41.002+/-22.447 $\chi^2$/NDF:28.3/21

Out: 59.070+/-22.620 $\chi^2$/NDF:31.7/25

All: 49.967+/-15.933 $\chi^2$/NDF: 60.3/47




Right In: 79.263+/-0.021 $\chi^2$/NDF: 444951.1/15

Left Out: 75.767+/-0.024 $\chi^2$/NDF:165343.9/6

Right Out: 80.958+/-0.022 $\chi^2$/NDF: 514182.4/18

Left In: 75.155+/-0.024 $\chi^2$/NDF:83113.7/5

Left: 75.460+/-0.017 $\chi^2$/NDF: 248792.4/12

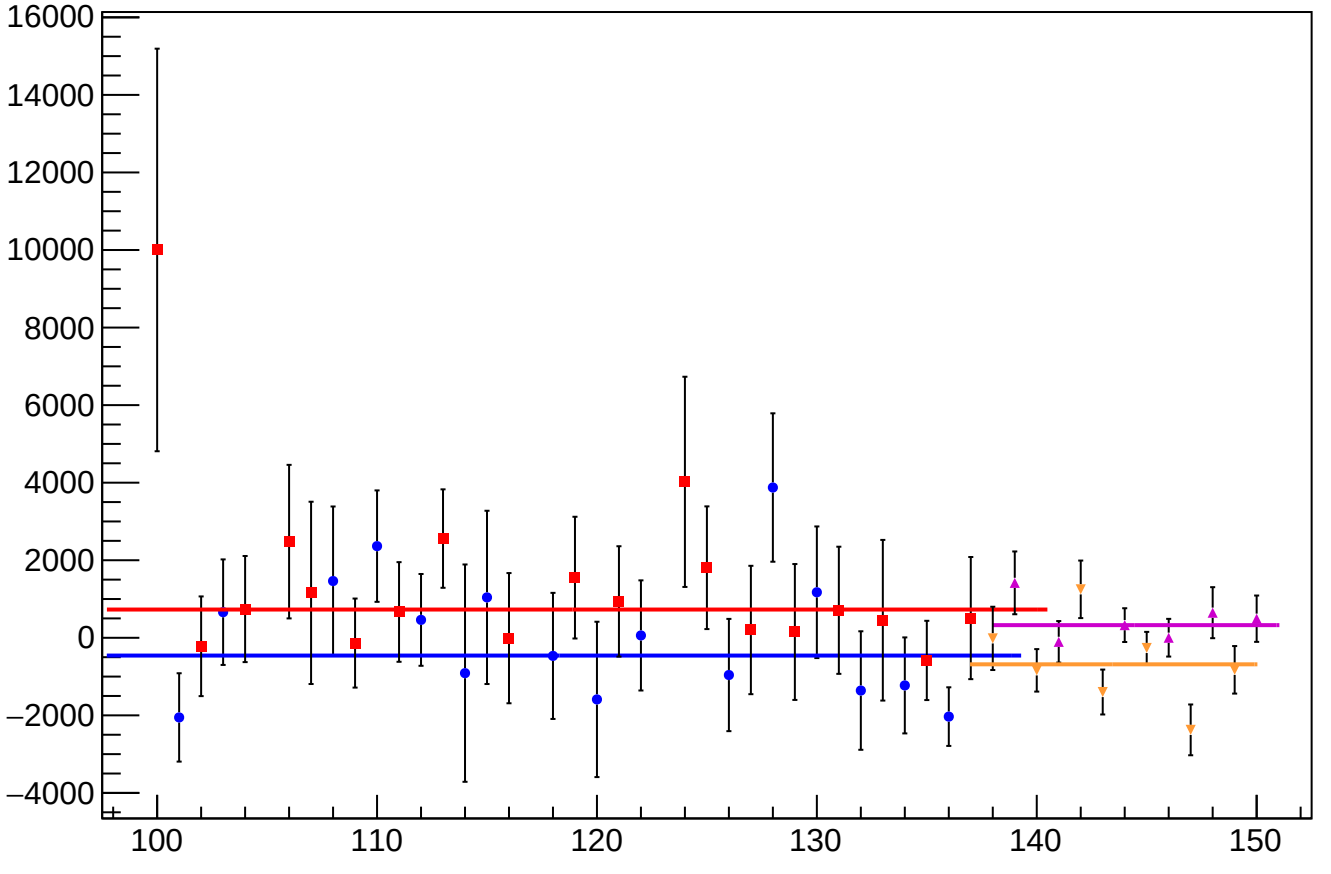
Right: 80.101+/-0.015 $\chi^2$/NDF: 962217.4/34

In: 77.403+/-0.016 $\chi^2$/NDF:544658.6/21

Out: 78.584+/-0.016 $\chi^2$/NDF:705675.7/25

All: 77.989+/-0.011 $\chi^2$/NDF: 1253080.2/47

asym_sam_12345678_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -458.108+/-350.075 $\chi^2$/NDF: 20.3/15

Left Out: -684.046+/-221.200 $\chi^2$/NDF:16.8/6

Right Out: 728.750+/-352.574 $\chi^2$/NDF: 11.5/18

Left In: 326.427+/-225.683 $\chi^2$/NDF:3.2/5

Left: -188.943+/-157.973 $\chi^2$/NDF: 30.3/12

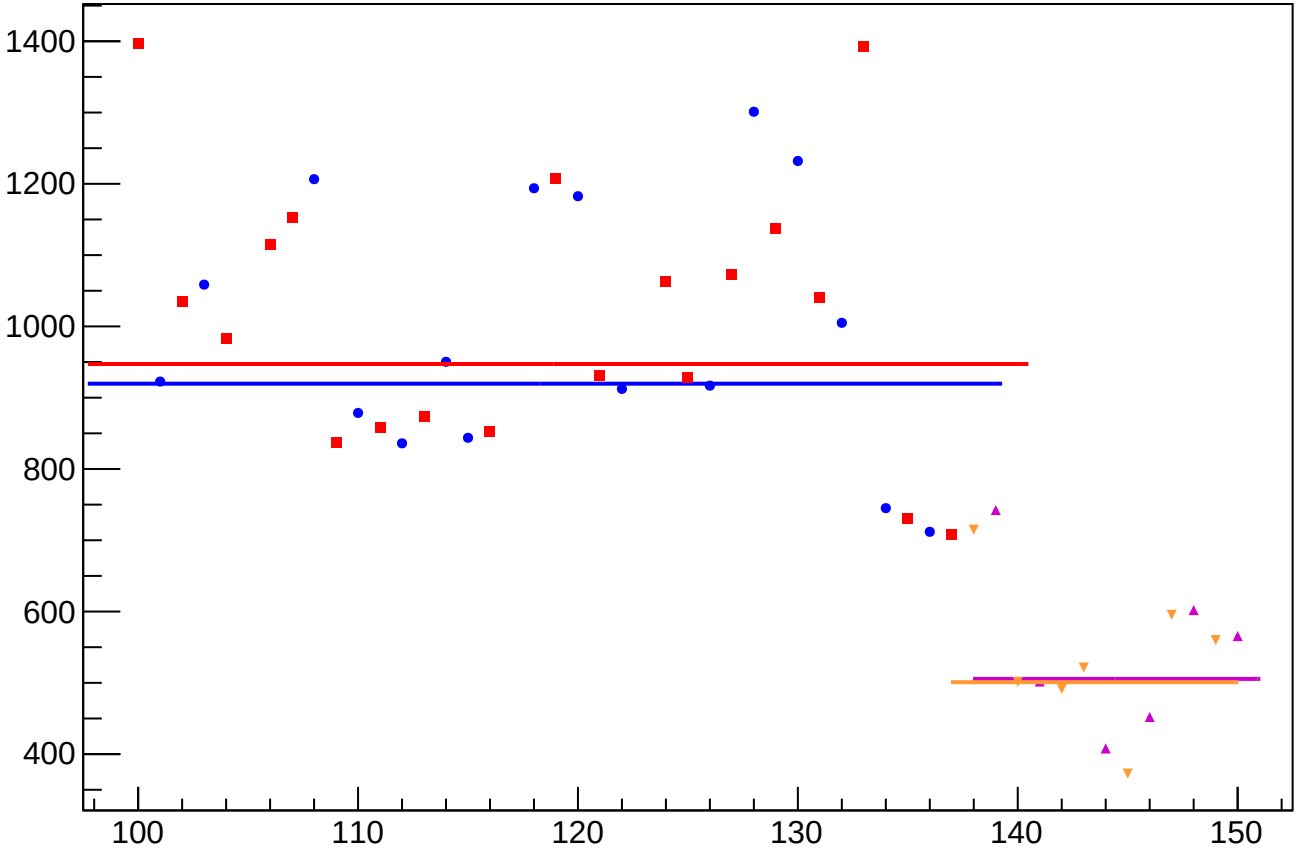
Right: 131.100+/-248.419 $\chi^2$/NDF: 37.5/34

In: 96.099+/-189.683 $\chi^2$/NDF:27.0/21

Out: -285.014+/-187.376 $\chi^2$/NDF:39.9/25

All: -96.788+/-133.303 $\chi^2$/NDF: 69.0/47

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 919.638+/-0.248 $\chi^2$/NDF: 515443.8/15

Left Out: 500.914+/-0.156 $\chi^2$/NDF:391577.8/6

Right Out: 947.272+/-0.249 $\chi^2$/NDF: 425563.8/18

Left In: 505.534+/-0.160 $\chi^2$/NDF:359082.6/5

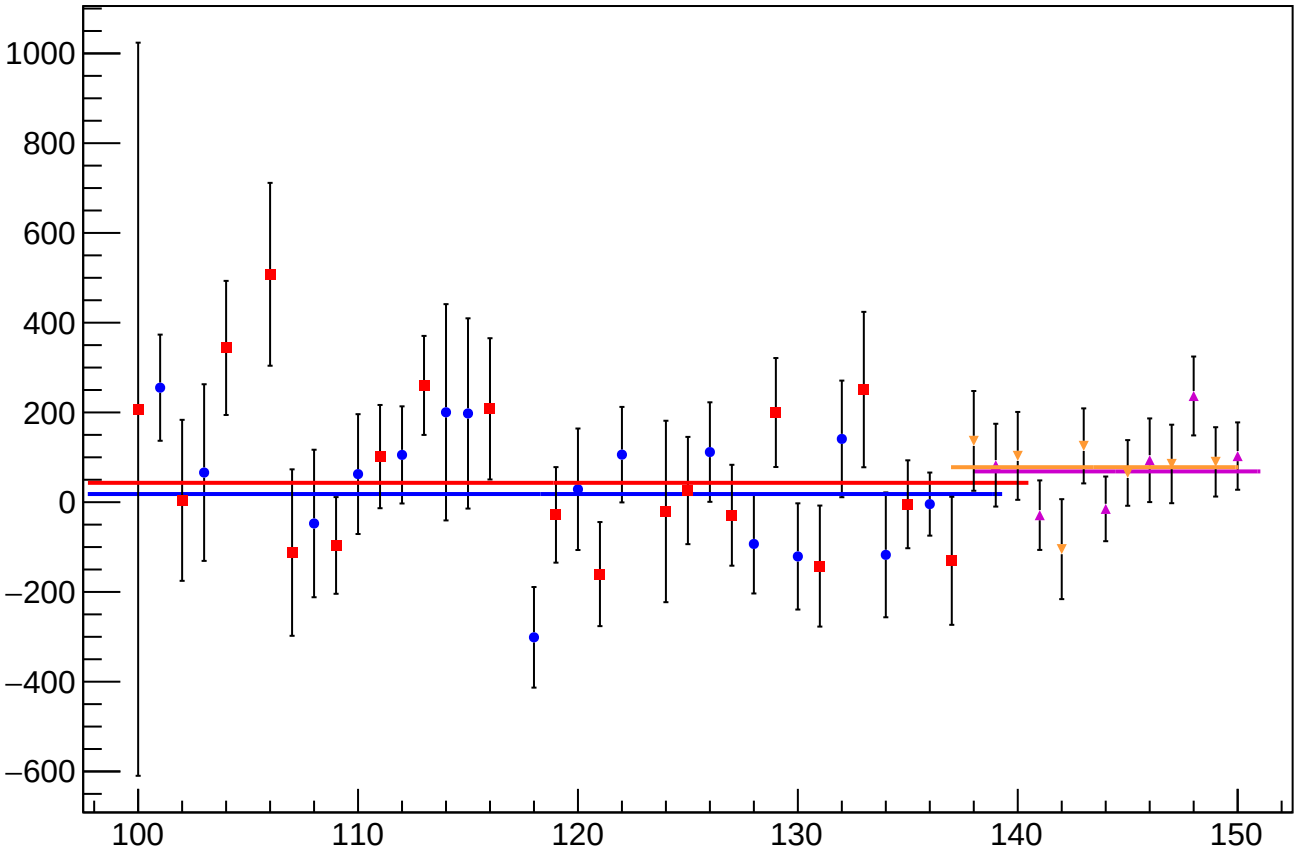
Left: 503.178+/-0.112 $\chi^2$/NDF: 751087.8/12

Right: 933.357+/-0.176 $\chi^2$/NDF: 947194.3/34

In: 627.109+/-0.134 $\chi^2$/NDF:2851439.2/21

Out: 626.984+/-0.132 $\chi^2$/NDF:3117276.1/25

All: 627.046+/-0.094 $\chi^2$/NDF: 5968715.7/47




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 77.961+/-33.447 $\chi^2$/NDF:3.4/6

Right Out: 43.144+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 68.583+/-33.357 $\chi^2$/NDF:6.9/5

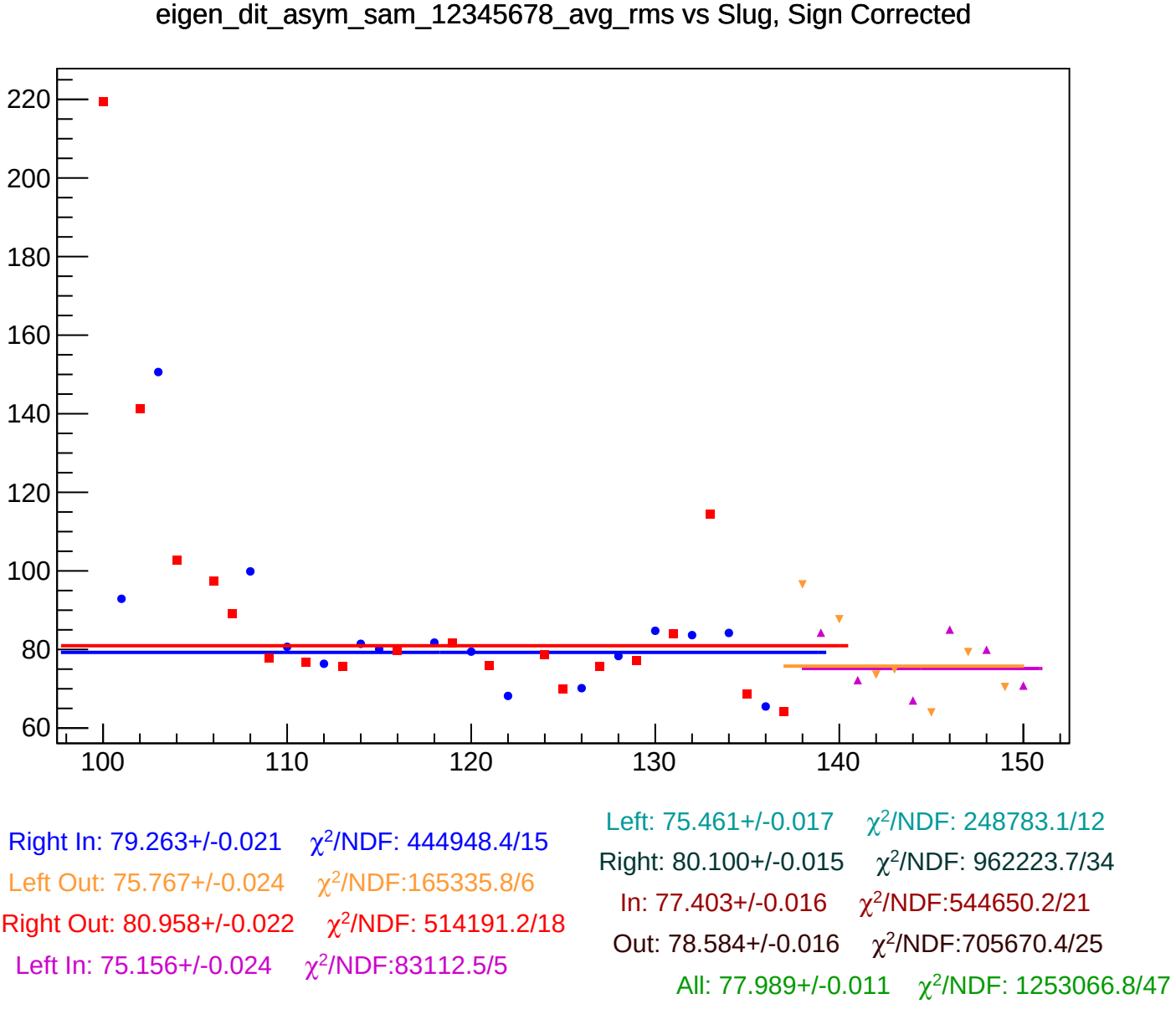
Left: 73.259+/-23.619 $\chi^2$/NDF: 10.3/12

Right: 30.512+/-21.584 $\chi^2$/NDF: 48.2/34

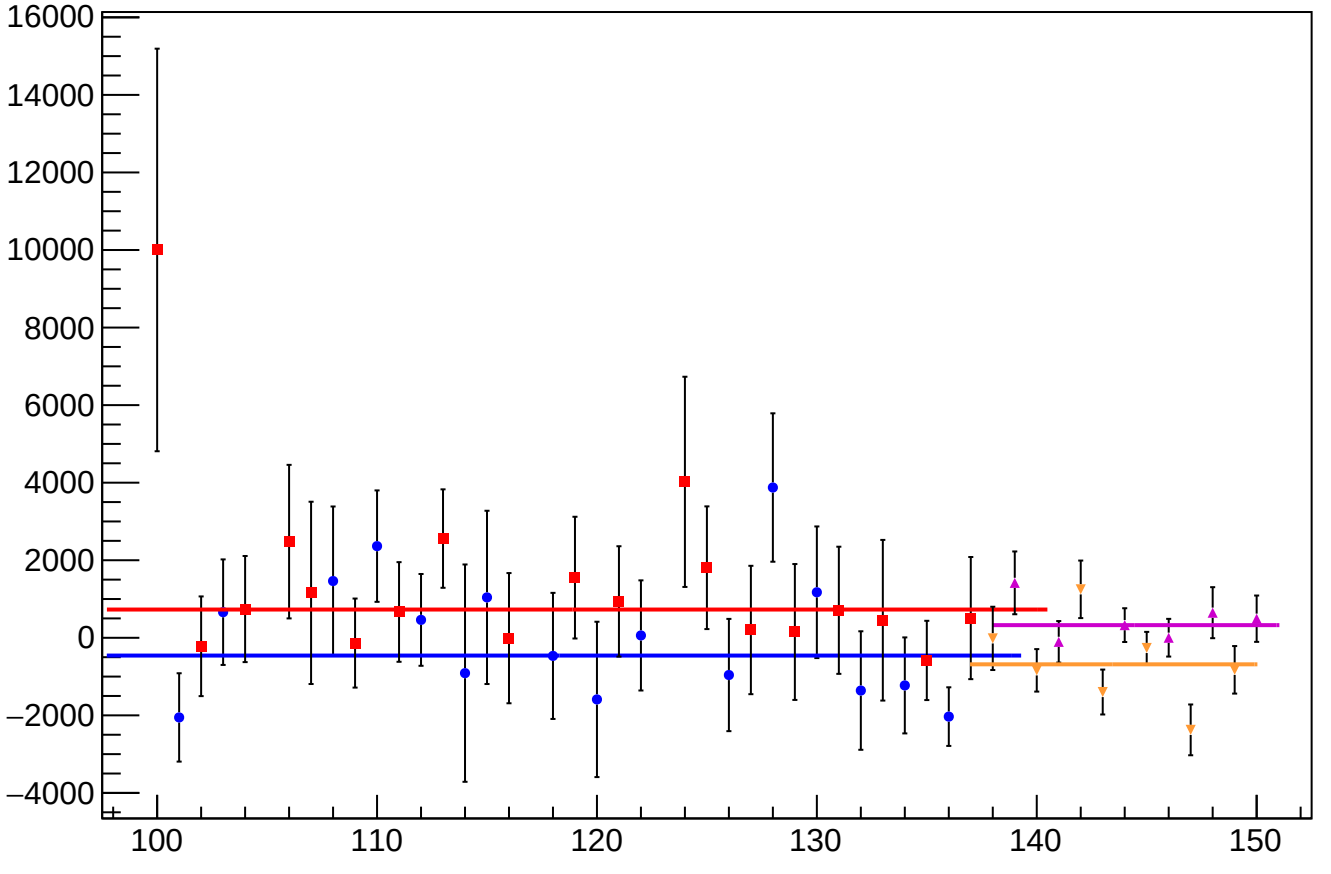
In: 41.002+/-22.447 $\chi^2$/NDF:28.3/21

Out: 59.068+/-22.620 $\chi^2$/NDF:31.7/25

All: 49.966+/-15.933 $\chi^2$/NDF: 60.3/47


eigen_dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected
220
200
180
160
140
120
100
80
60
100
110
120
130
140
150
Right In: 79.263+/-0.021 χ²/NDF: 444948.4/15
Left Out: 75.767+/-0.024 χ²/NDF:165335.8/6
Right Out: 80.958+/-0.022 χ²/NDF: 514191.2/18
Left In: 75.156+/-0.024 χ²/NDF:83112.5/5
Left: 75.461+/-0.017 χ²/NDF: 248783.1/12
Right: 80.100+/-0.015 χ²/NDF: 962223.7/34
In: 77.403+/-0.016 χ²/NDF:544650.2/21
Out: 78.584+/-0.016 χ²/NDF:705670.4/25
All: 77.989+/-0.011 χ²/NDF: 1253066.8/47

asym_sam_12345678_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -458.104+/-350.074 $\chi^2$/NDF: 20.3/15

Left Out: -684.047+/-221.200 $\chi^2$/NDF:16.8/6

Right Out: 728.749+/-352.573 $\chi^2$/NDF: 11.5/18

Left In: 326.427+/-225.682 $\chi^2$/NDF:3.2/5

Left: -188.944+/-157.973 $\chi^2$/NDF: 30.3/12

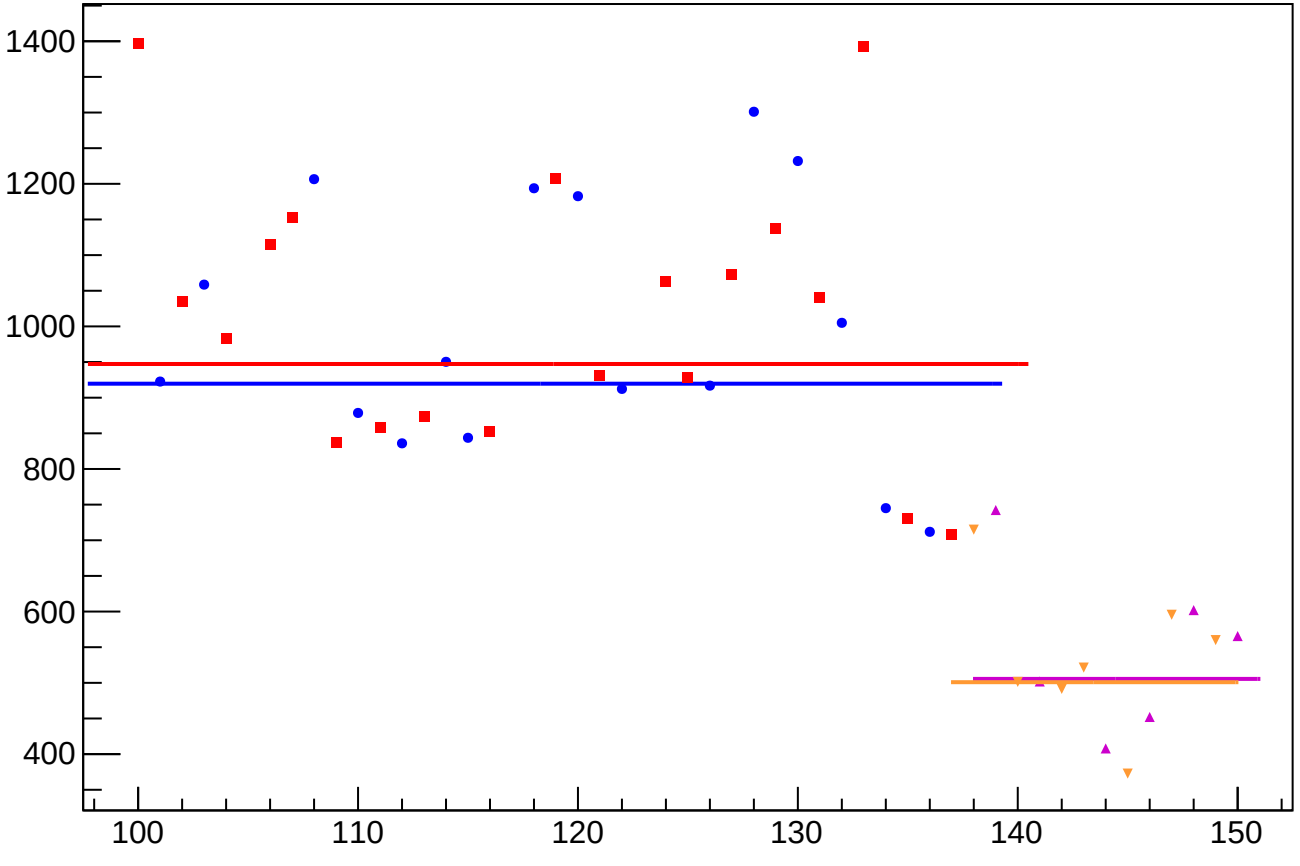
Right: 131.102+/-248.419 $\chi^2$/NDF: 37.5/34

In: 96.100+/-189.683 $\chi^2$/NDF:27.0/21

Out: -285.014+/-187.376 $\chi^2$/NDF:39.9/25

All: -96.789+/-133.303 $\chi^2$/NDF: 69.0/47

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 919.636+/-0.248 $\chi^2$/NDF: 515443.9/15

Left Out: 500.913+/-0.156 $\chi^2$/NDF:391580.5/6

Right Out: 947.270+/-0.249 $\chi^2$/NDF: 425565.2/18

Left In: 505.533+/-0.160 $\chi^2$/NDF:359082.6/5

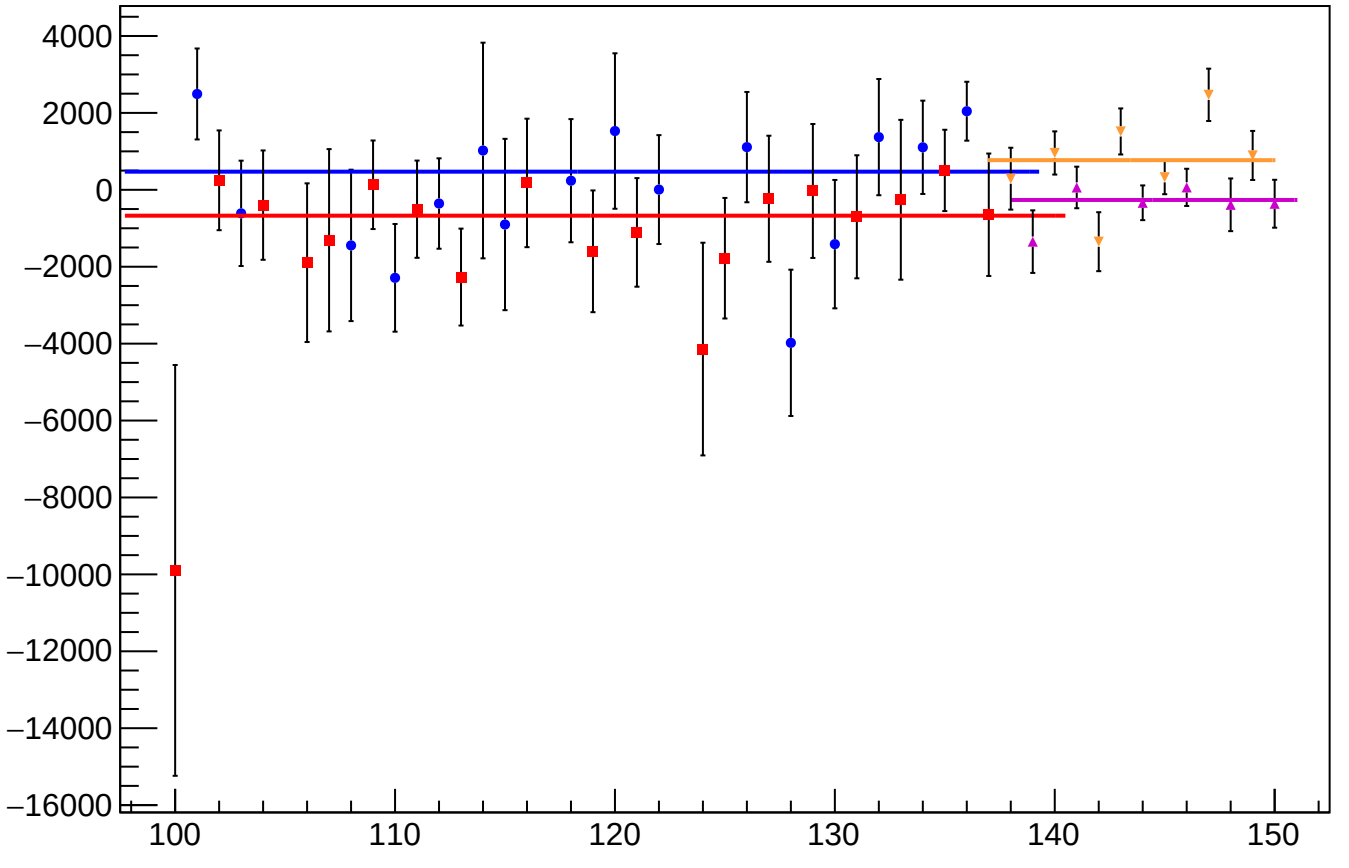
Left: 503.177+/-0.112 $\chi^2$/NDF: 751090.6/12

Right: 933.355+/-0.176 $\chi^2$/NDF: 947195.7/34

In: 627.108+/-0.134 $\chi^2$/NDF:2851432.1/21

Out: 626.983+/-0.132 $\chi^2$/NDF:3117276.2/25

All: 627.045+/-0.094 $\chi^2$/NDF: 5968708.8/47




Right In: 472.014+/-350.376 $\chi^2$/NDF: 21.5/15

Left Out: 770.861+/-229.539 $\chi^2$/NDF:17.0/6

Right Out: -672.537+/-354.512 $\chi^2$/NDF: 10.3/18

Left In: -263.971+/-230.481 $\chi^2$/NDF:2.7/5

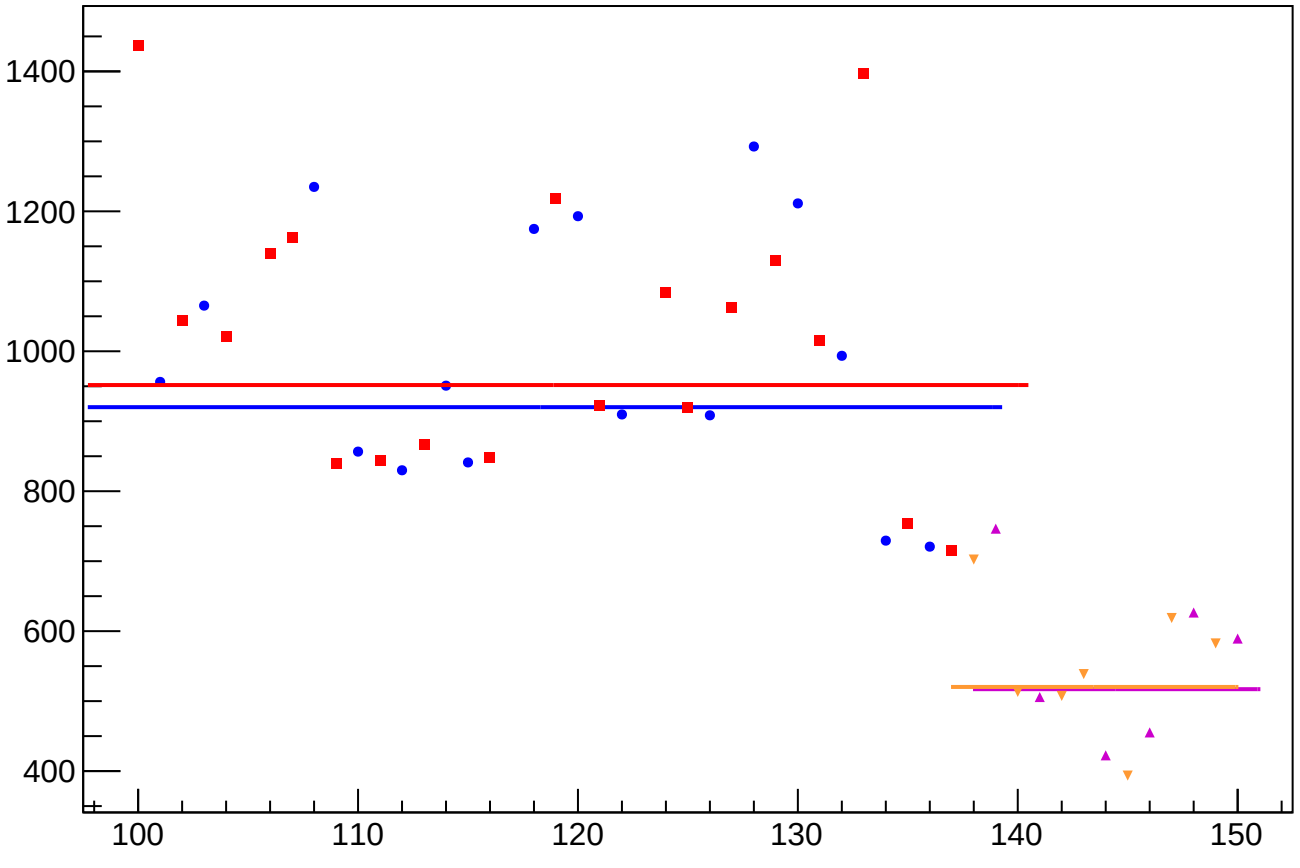
Left: 255.566+/-162.641 $\chi^2$/NDF: 29.8/12

Right: -93.545+/-249.203 $\chi^2$/NDF: 37.1/34

In: -41.685+/-192.555 $\chi^2$/NDF:27.2/21

Out: 344.495+/-192.677 $\chi^2$/NDF:39.0/25

All: 151.283+/-136.200 $\chi^2$/NDF: 68.2/47




Right In: 920.125+/-0.248 $\chi^2$/NDF: 508678.6/15

Left Out: 520.263+/-0.162 $\chi^2$/NDF:331651.9/6

Right Out: 951.726+/-0.251 $\chi^2$/NDF: 416116.3/18

Left In: 517.087+/-0.163 $\chi^2$/NDF:358327.7/5

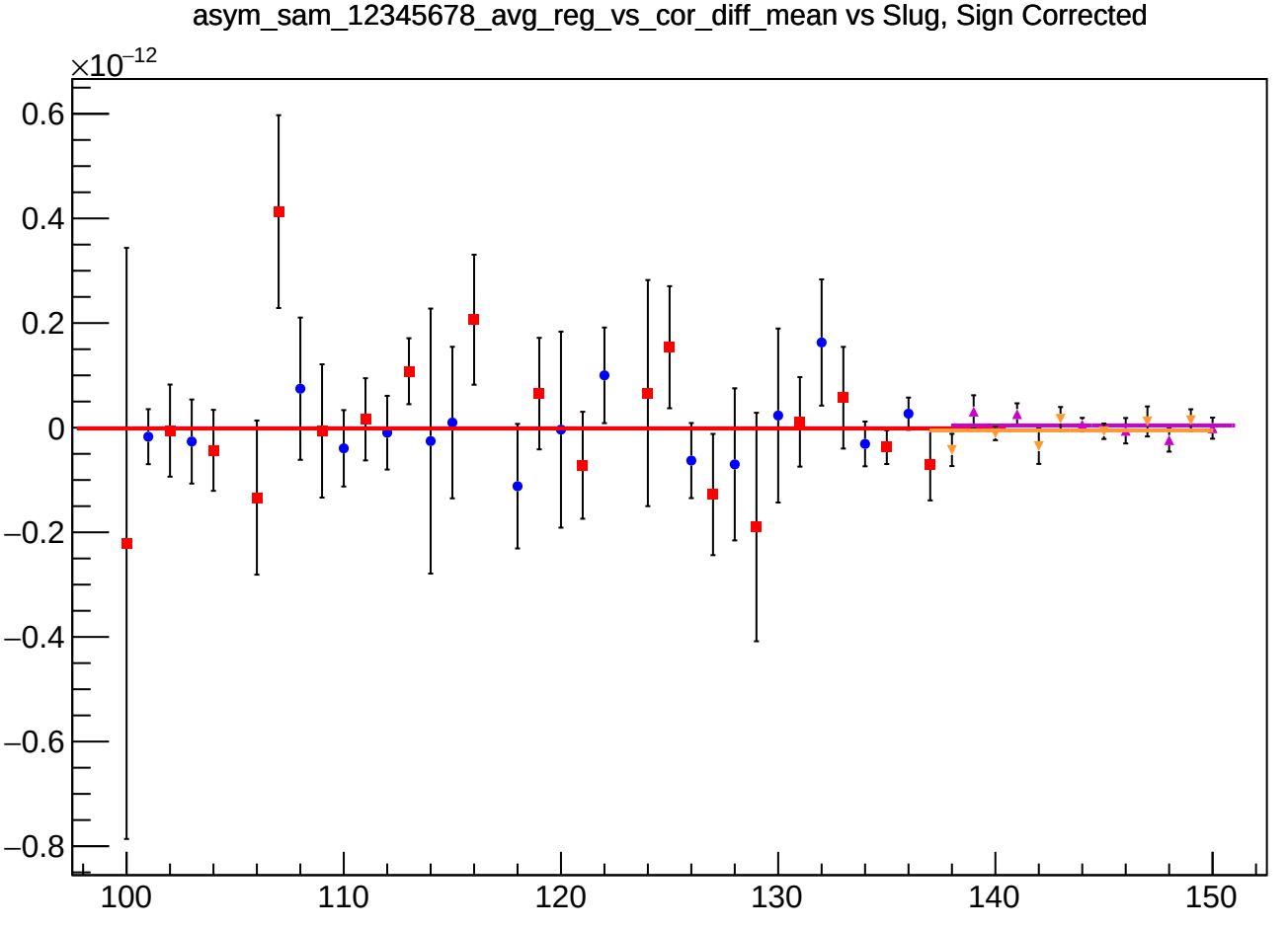
Left: 518.681+/-0.115 $\chi^2$/NDF: 690170.3/12

Right: 935.740+/-0.176 $\chi^2$/NDF: 932834.0/34

In: 638.814+/-0.136 $\chi^2$/NDF:2714127.6/21

Out: 647.713+/-0.136 $\chi^2$/NDF:2835156.5/25

All: 643.261+/-0.096 $\chi^2$/NDF: 5551418.6/47




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.6/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.7/5

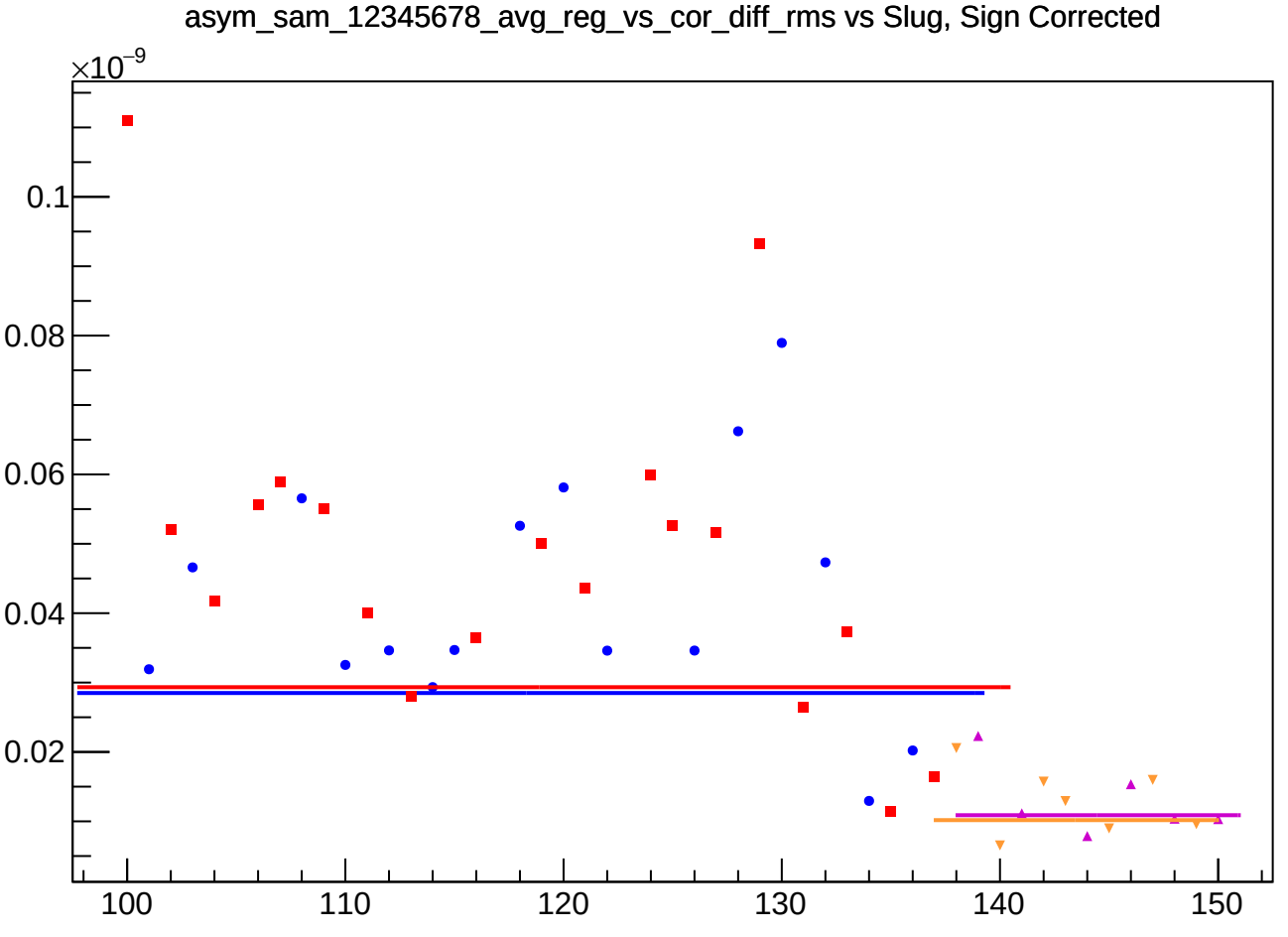
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.0/12

Right: -0.000+/-0.000 $\chi^2$/NDF: 26.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:10.8/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.0/25

All: -0.000+/-0.000 $\chi^2$/NDF: 35.5/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1152293.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:561130.5/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1645968.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:446730.1/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 1016194.9/12

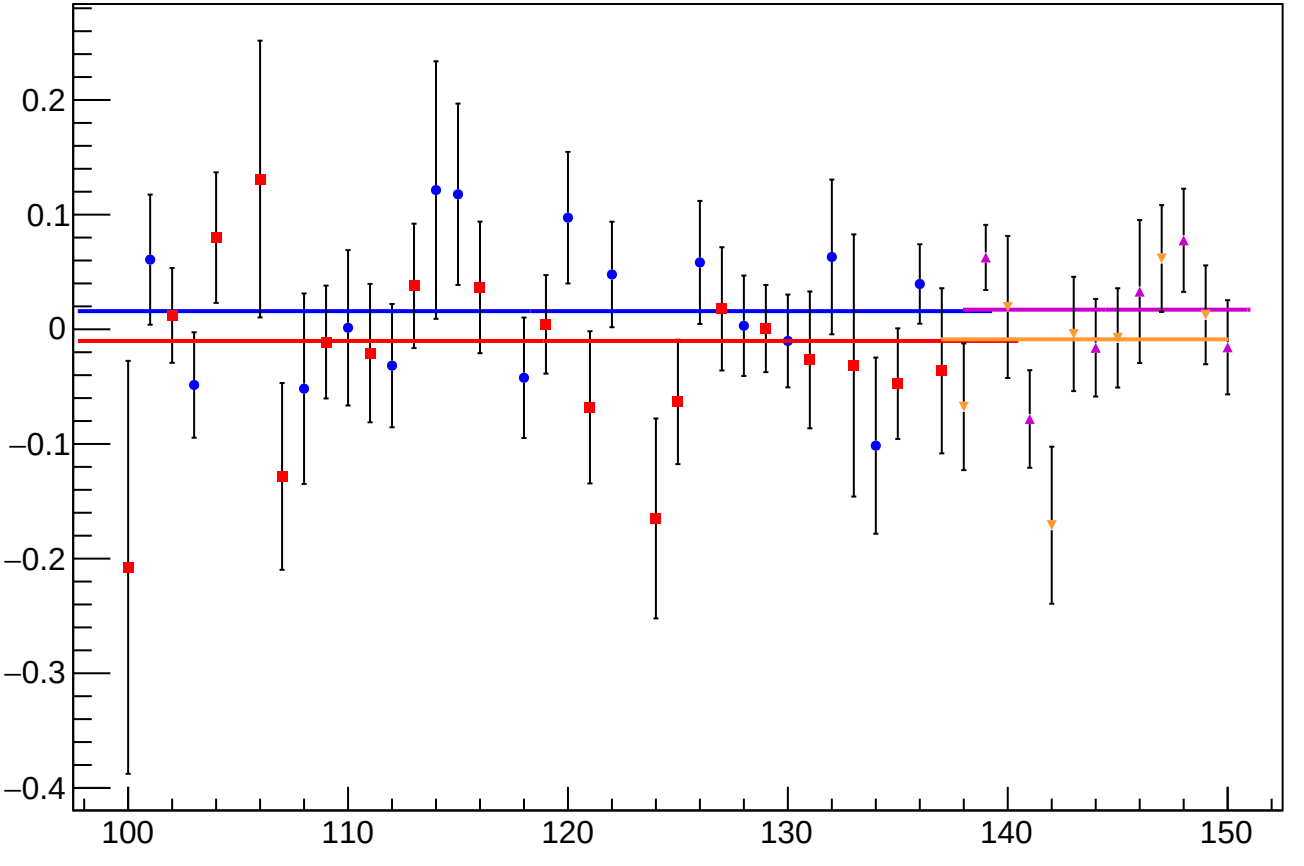
Right: 0.000+/-0.000 $\chi^2$/NDF: 2800314.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3238763.8/21

Out: 0.000+/-0.000 $\chi^2$/NDF:3926050.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 7192824.8/47

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.009+/-0.019 $\chi^2$/NDF:9.5/6

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.017+/-0.016 $\chi^2$/NDF:10.7/5

Left: 0.006+/-0.012 $\chi^2$/NDF: 21.3/12

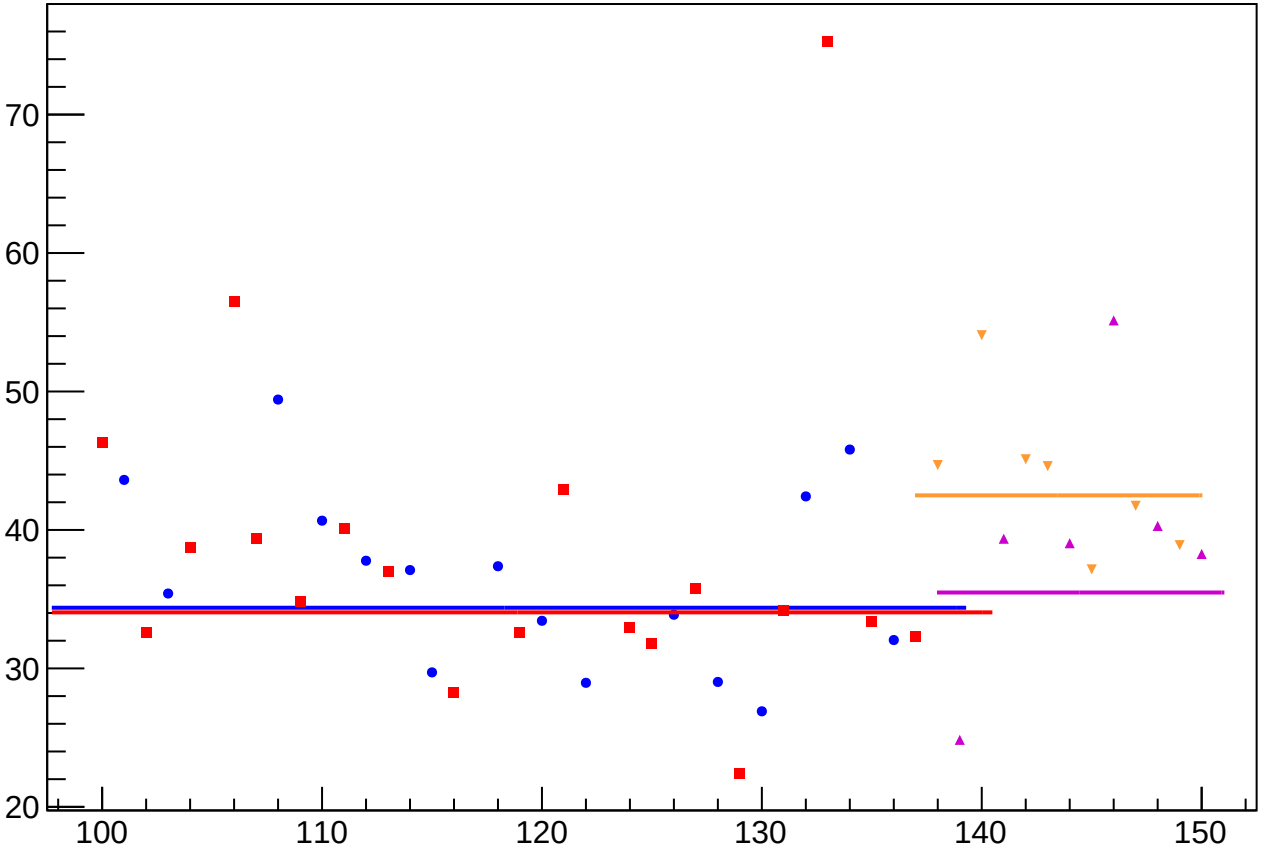
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.016+/-0.010 $\chi^2$/NDF:25.5/21

Out: -0.010+/-0.011 $\chi^2$/NDF:24.6/25

All: 0.004+/-0.008 $\chi^2$/NDF: 53.1/47

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.382+/-0.009 $\chi^2$/NDF: 367883.0/15

Left Out: 42.498+/-0.014 $\chi^2$/NDF:124288.9/6

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 35.481+/-0.012 $\chi^2$/NDF:542054.6/5

Left: 38.470+/-0.009 $\chi^2$/NDF: 821036.3/12

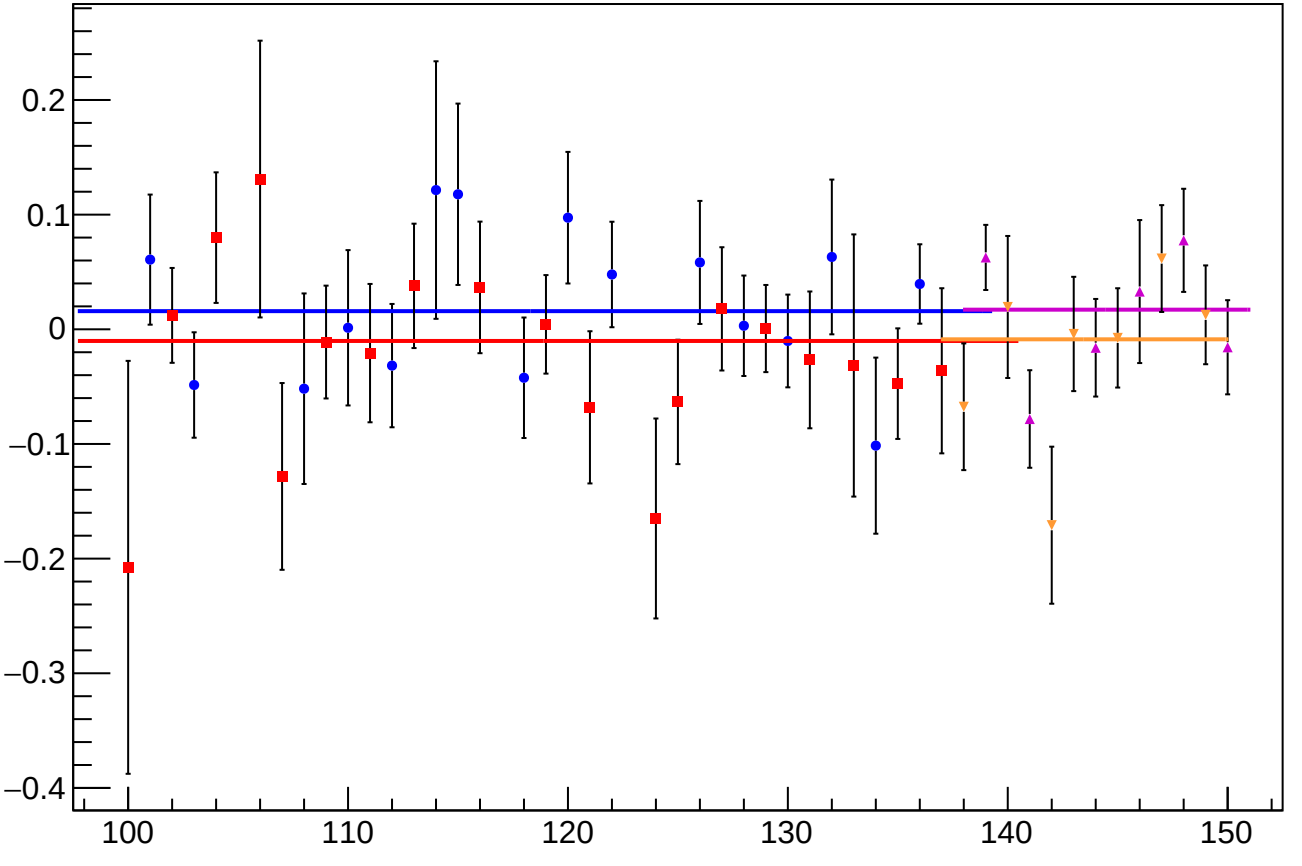
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 34.820+/-0.007 $\chi^2$/NDF:915305.7/21

Out: 36.778+/-0.008 $\chi^2$/NDF:1031550.6/25

All: 35.755+/-0.005 $\chi^2$/NDF: 1980779.7/47

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.009+/-0.019 $\chi^2$/NDF:9.5/6

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.017+/-0.016 $\chi^2$/NDF:10.7/5

Left: 0.006+/-0.012 $\chi^2$/NDF: 21.3/12

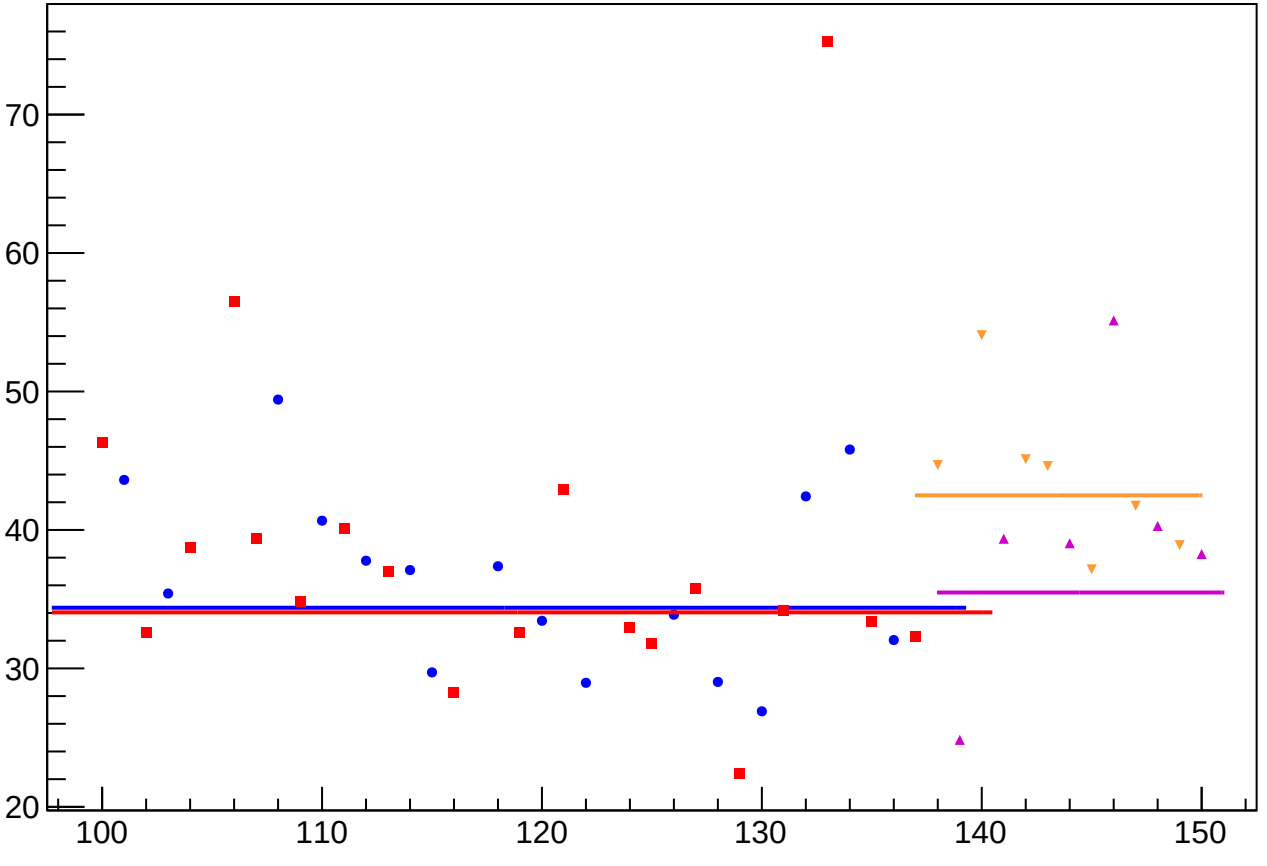
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.016+/-0.010 $\chi^2$/NDF:25.5/21

Out: -0.010+/-0.011 $\chi^2$/NDF:24.6/25

All: 0.004+/-0.008 $\chi^2$/NDF: 53.1/47

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.382+/-0.009 $\chi^2$/NDF: 367883.0/15

Left Out: 42.498+/-0.014 $\chi^2$/NDF:124288.9/6

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 35.481+/-0.012 $\chi^2$/NDF:542054.6/5

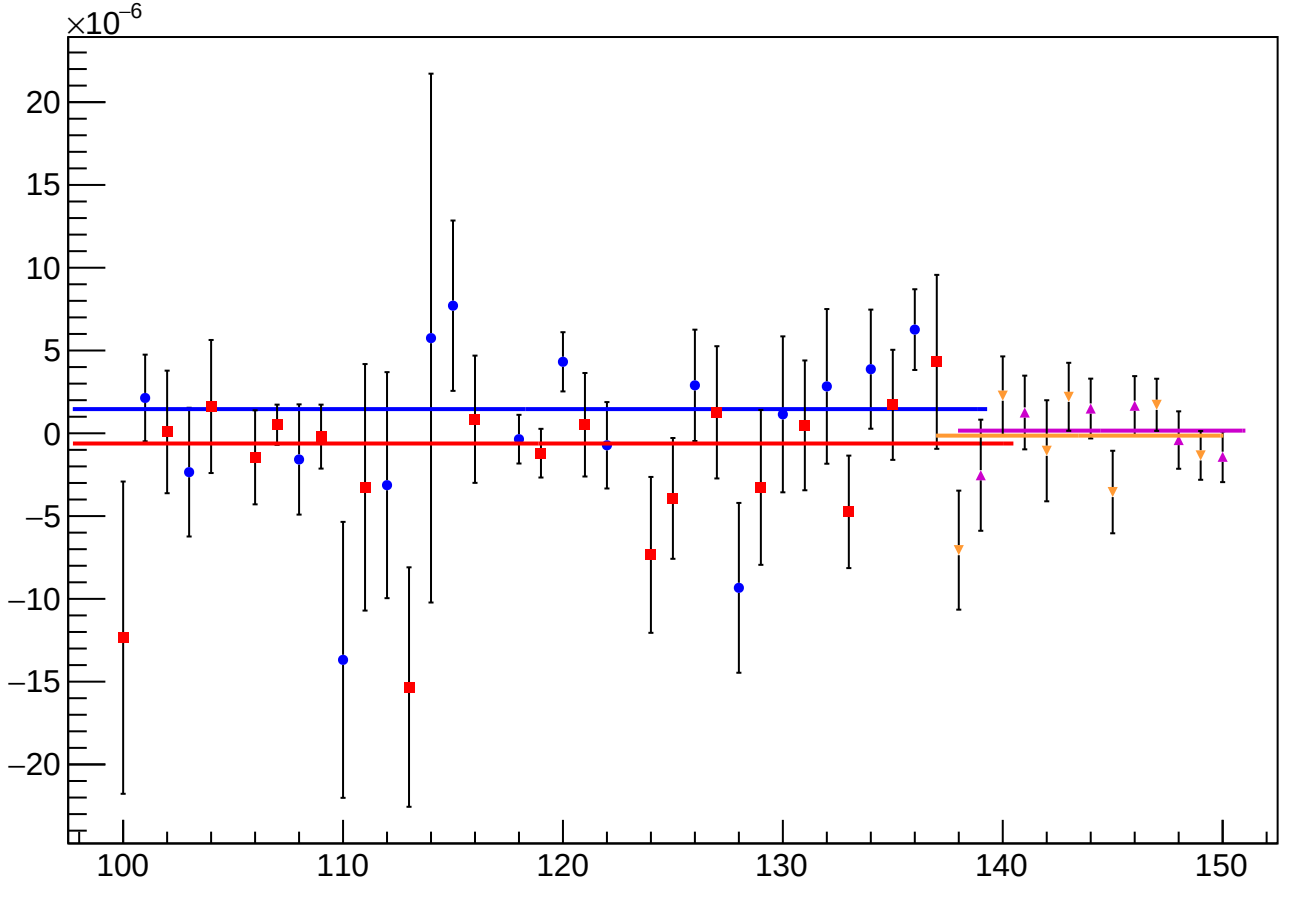
Left: 38.470+/-0.009 $\chi^2$/NDF: 821036.3/12

Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 34.820+/-0.007 $\chi^2$/NDF:915305.7/21

Out: 36.778+/-0.008 $\chi^2$/NDF:1031550.6/25

All: 35.755+/-0.005 $\chi^2$/NDF: 1980779.7/47




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.0/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.3/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 13.4/12

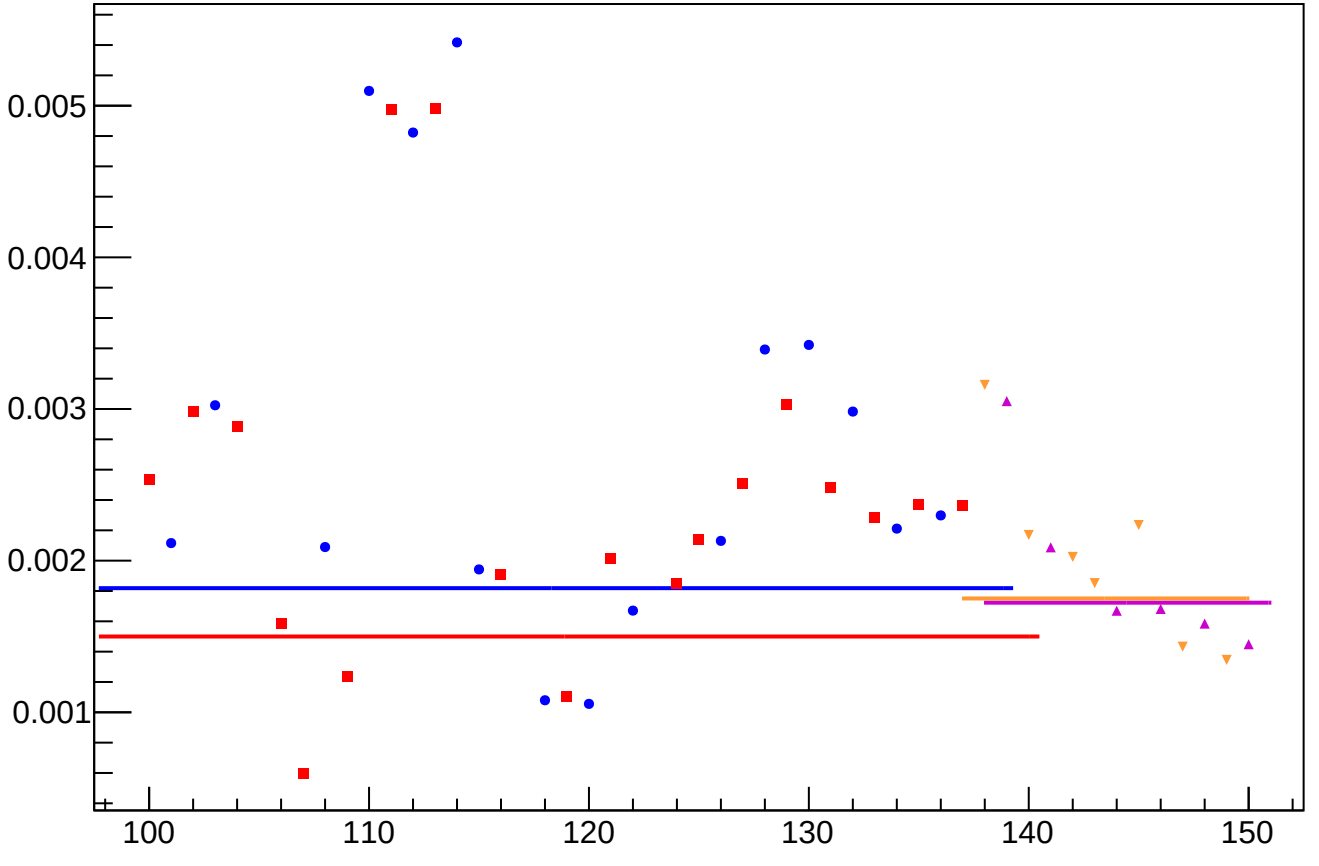
Right: 0.000+/-0.000 $\chi^2$/NDF: 39.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.7/21

Out: -0.000+/-0.000 $\chi^2$/NDF:24.2/25

All: 0.000+/-0.000 $\chi^2$/NDF: 52.8/47

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2570250.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:698647.4/6

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3689451.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:447191.2/5

Left: 0.002+/-0.000 $\chi^2$/NDF: 1147108.6/12

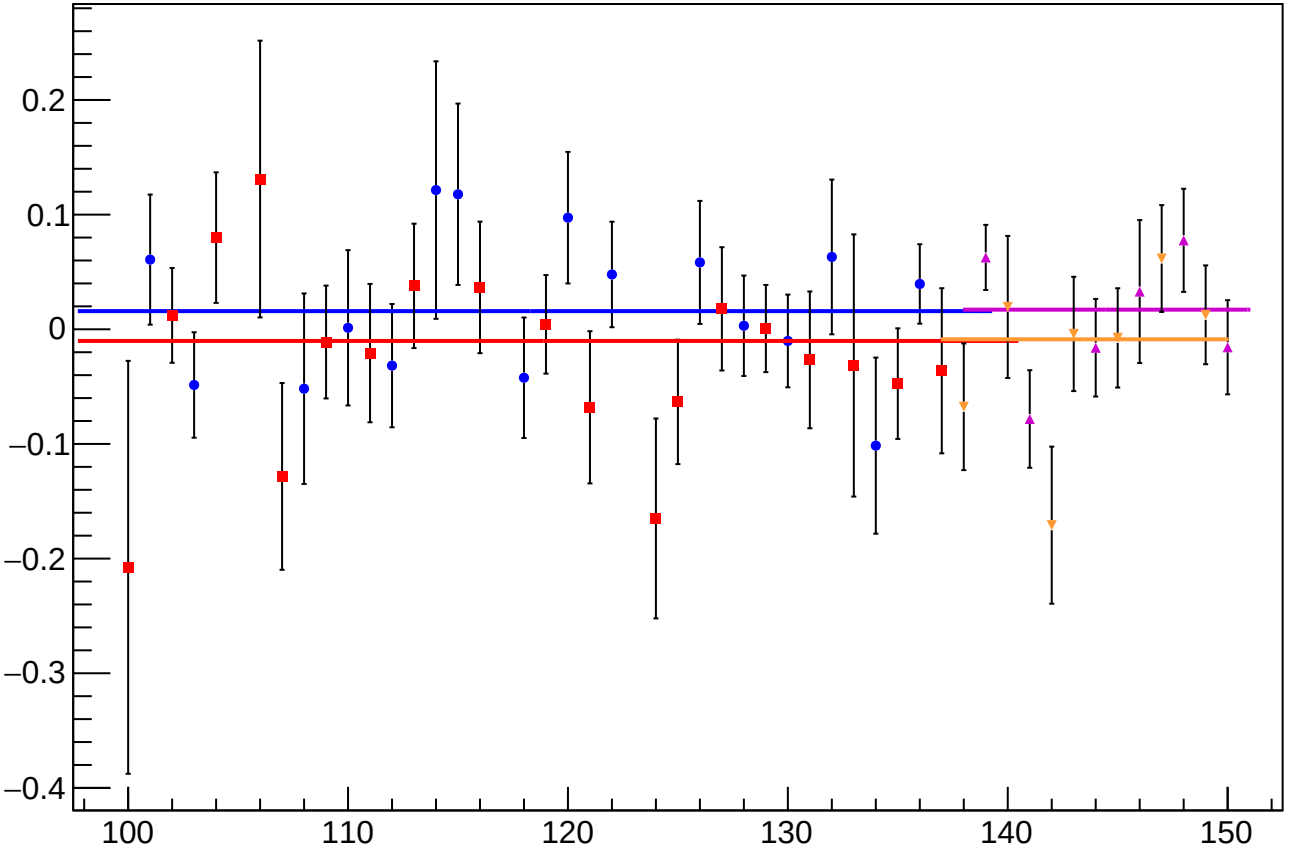
Right: 0.002+/-0.000 $\chi^2$/NDF: 6466308.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:3033177.5/21

Out: 0.002+/-0.000 $\chi^2$/NDF:4509892.3/25

All: 0.002+/-0.000 $\chi^2$/NDF: 7651261.6/47

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.009+/-0.019 $\chi^2$/NDF:9.5/6

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.017+/-0.016 $\chi^2$/NDF:10.7/5

Left: 0.006+/-0.012 $\chi^2$/NDF: 21.3/12

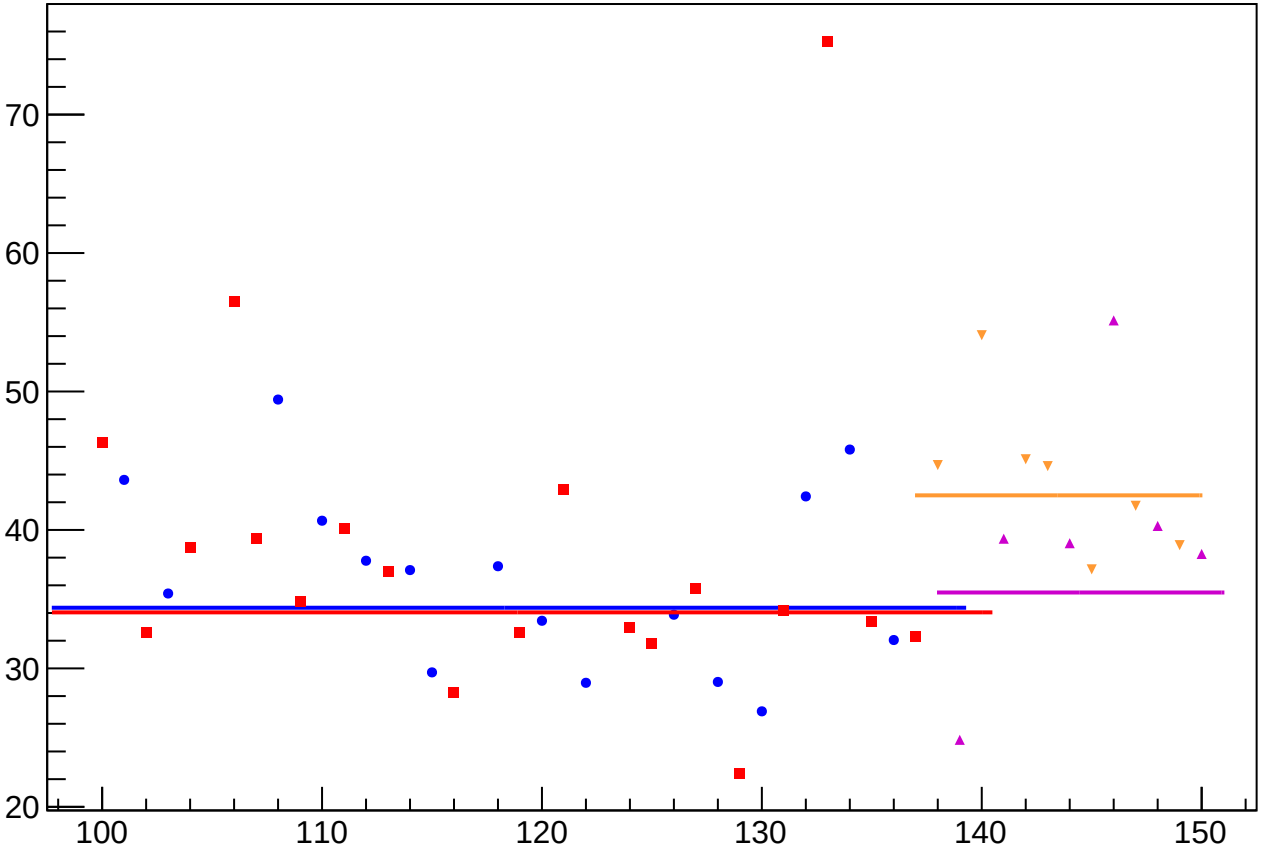
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.016+/-0.010 $\chi^2$/NDF:25.5/21

Out: -0.010+/-0.011 $\chi^2$/NDF:24.6/25

All: 0.004+/-0.008 $\chi^2$/NDF: 53.1/47

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.381+/-0.009 $\chi^2$/NDF: 367940.1/15

Left Out: 42.499+/-0.014 $\chi^2$/NDF:124277.1/6

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 35.482+/-0.012 $\chi^2$/NDF:542066.3/5

Left: 38.470+/-0.009 $\chi^2$/NDF: 821039.8/12

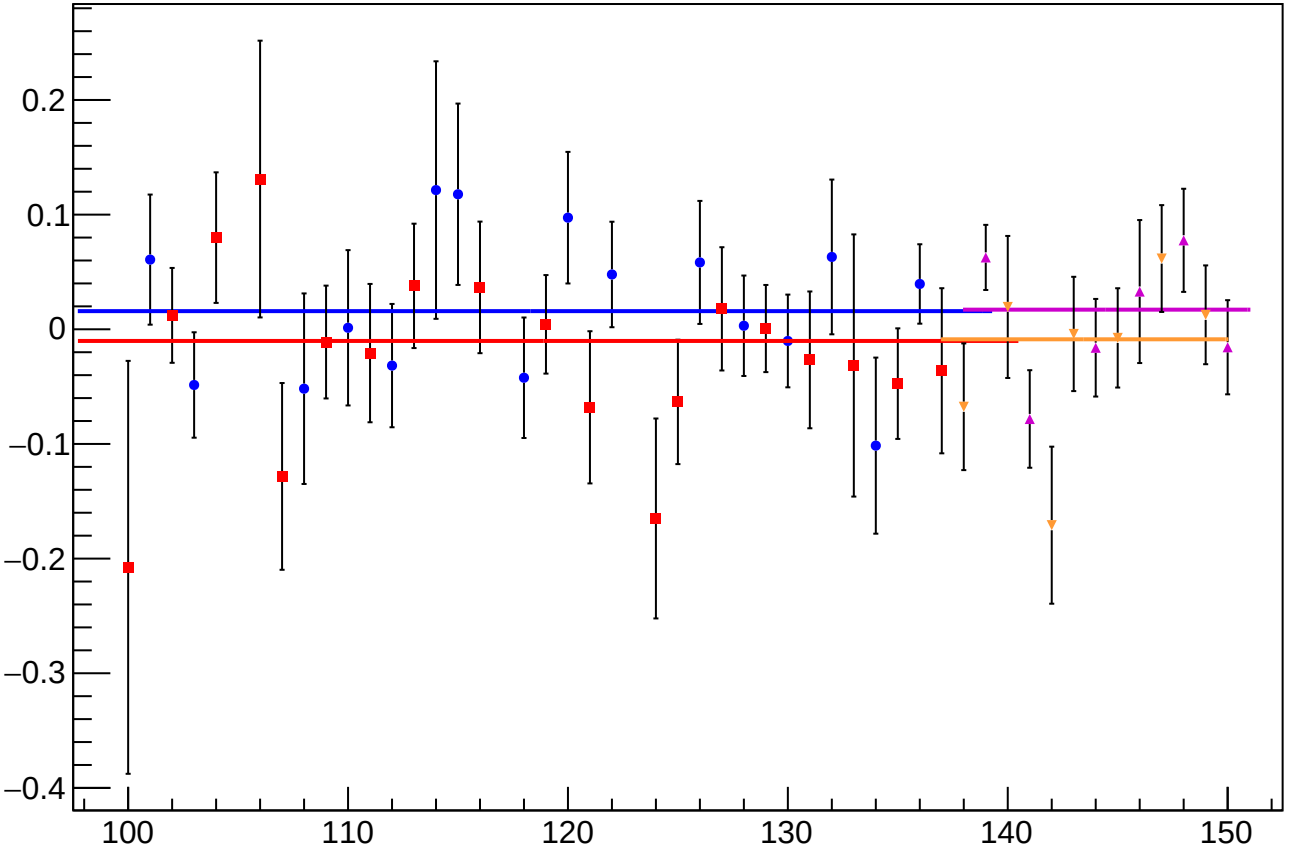
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 34.819+/-0.007 $\chi^2$/NDF:915385.5/21

Out: 36.778+/-0.008 $\chi^2$/NDF:1031646.3/25

All: 35.755+/-0.005 $\chi^2$/NDF: 1980957.3/47

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.009+/-0.019 $\chi^2$/NDF:9.5/6

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.017+/-0.016 $\chi^2$/NDF:10.7/5

Left: 0.006+/-0.012 $\chi^2$/NDF: 21.3/12

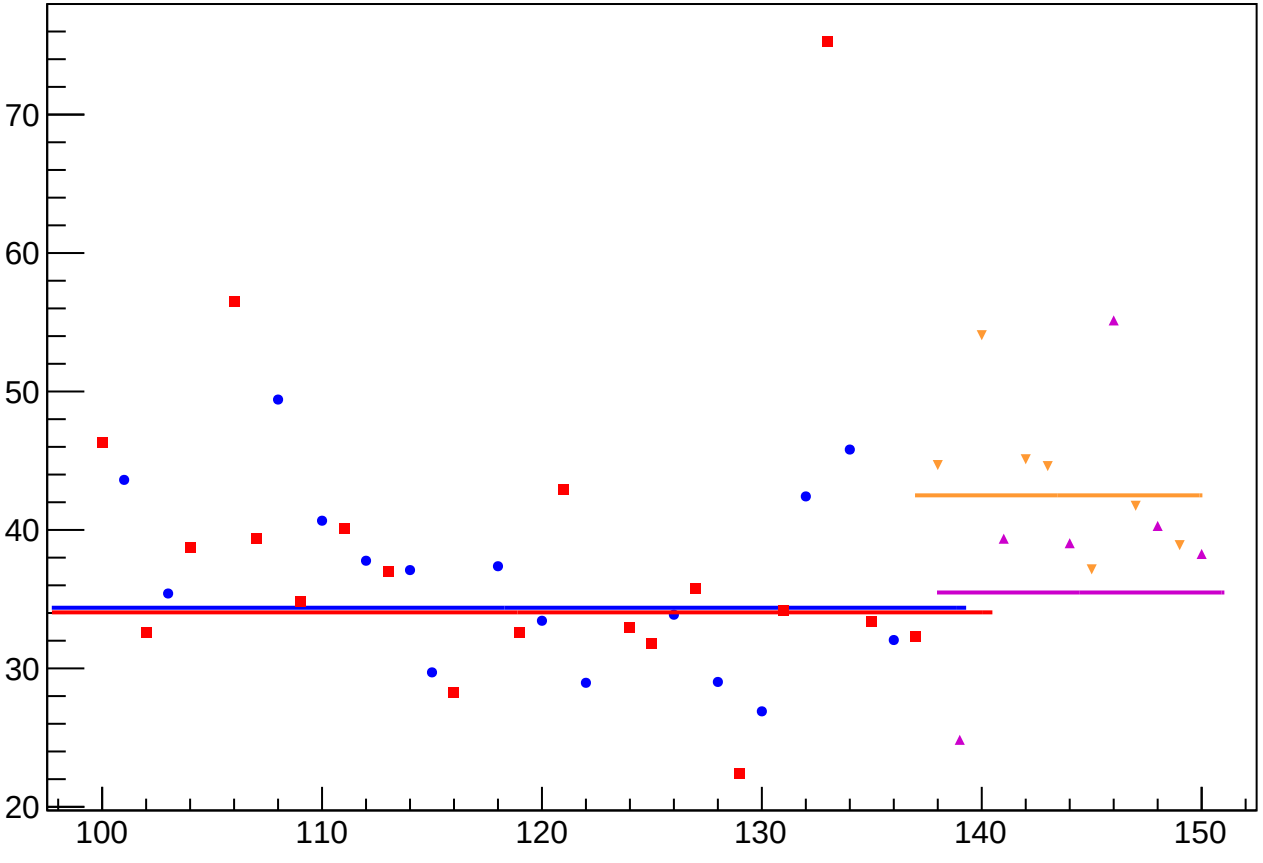
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.016+/-0.010 $\chi^2$/NDF:25.5/21

Out: -0.010+/-0.011 $\chi^2$/NDF:24.6/25

All: 0.004+/-0.008 $\chi^2$/NDF: 53.1/47

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.381+/-0.009 $\chi^2$/NDF: 367940.1/15

Left Out: 42.499+/-0.014 $\chi^2$/NDF:124277.1/6

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 35.482+/-0.012 $\chi^2$/NDF:542066.3/5

Left: 38.470+/-0.009 $\chi^2$/NDF: 821039.8/12

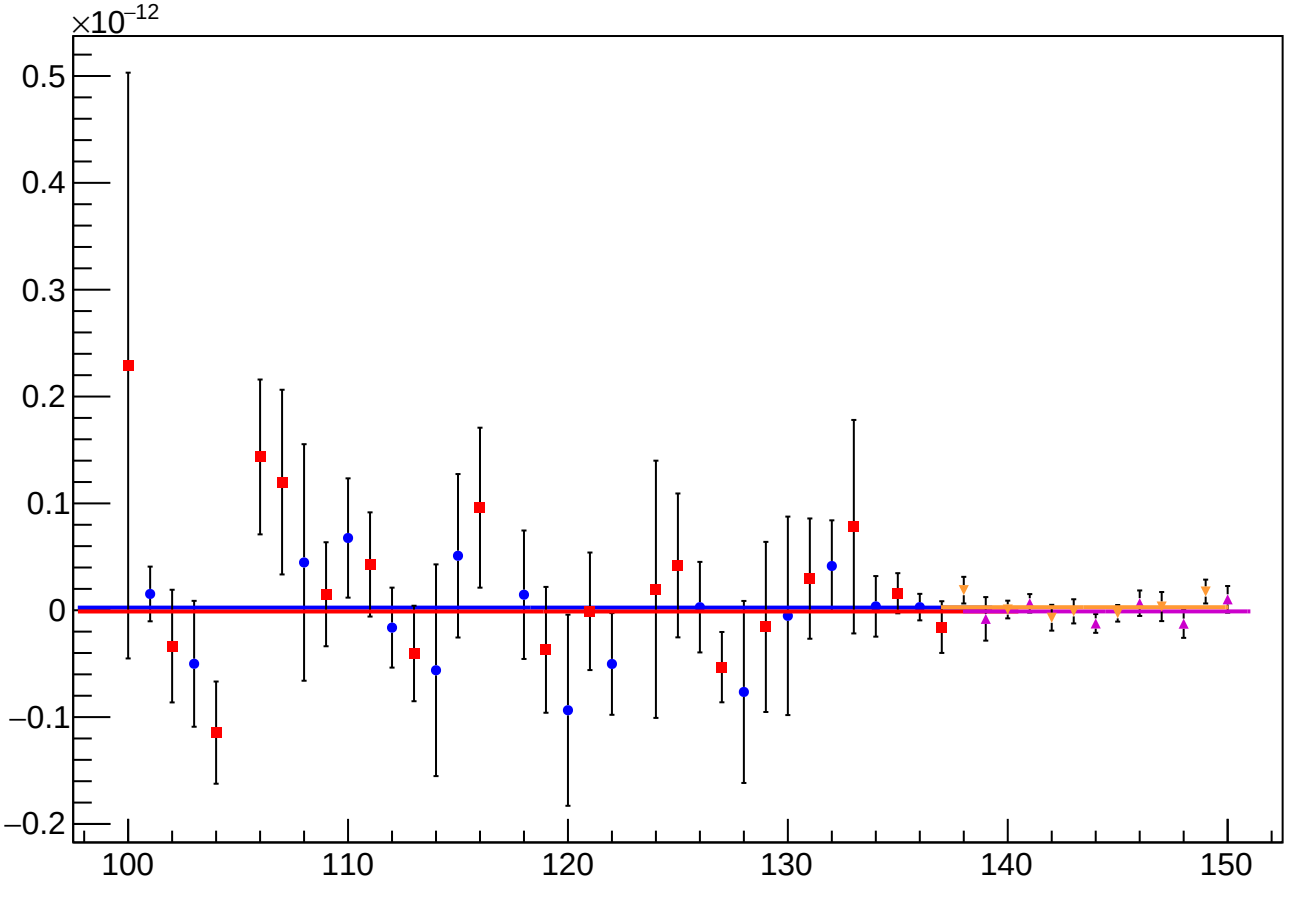
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 34.819+/-0.007 $\chi^2$/NDF:915385.5/21

Out: 36.778+/-0.008 $\chi^2$/NDF:1031646.3/25

All: 35.755+/-0.005 $\chi^2$/NDF: 1980957.3/47

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.8/6

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.5/5

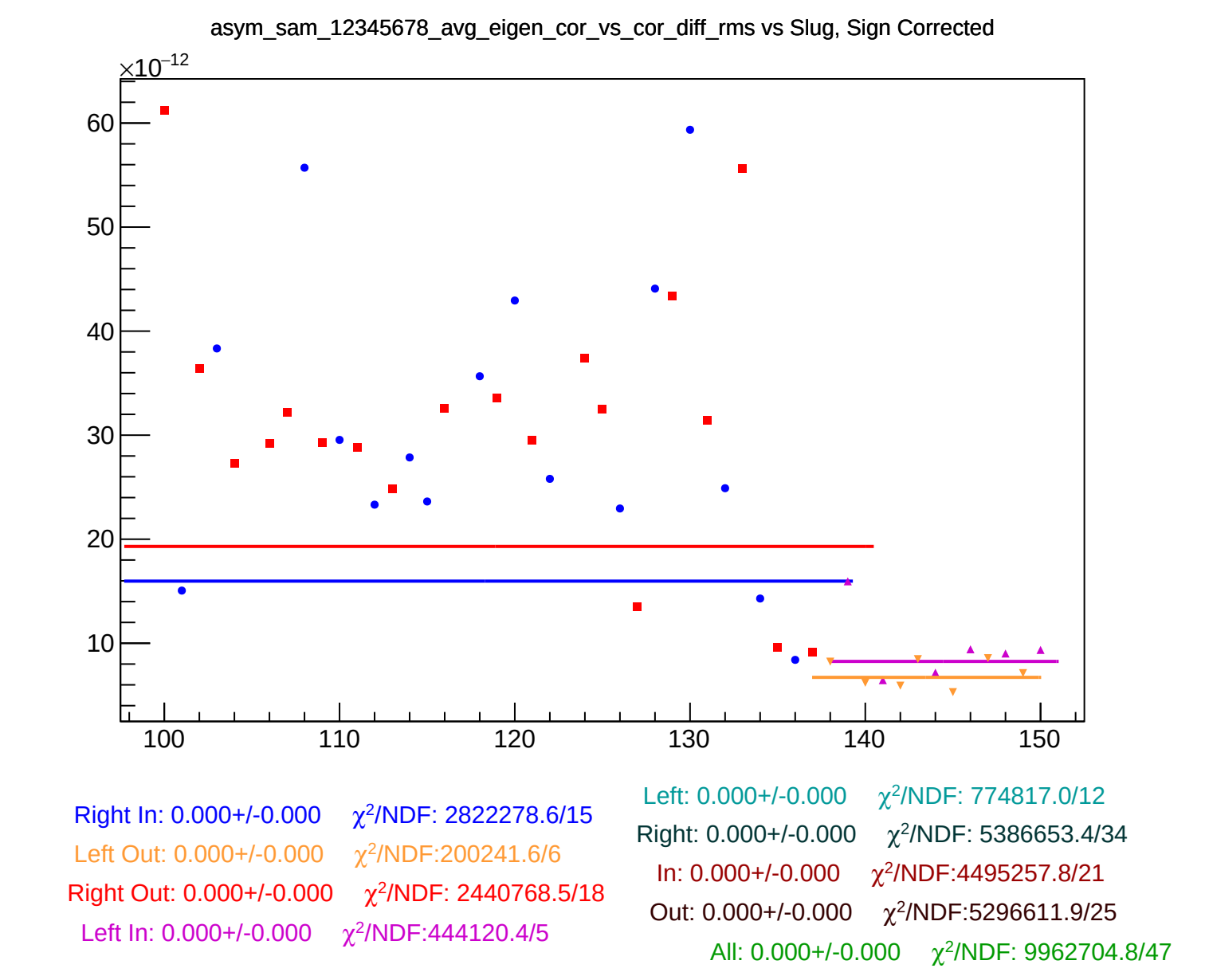
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.7/12

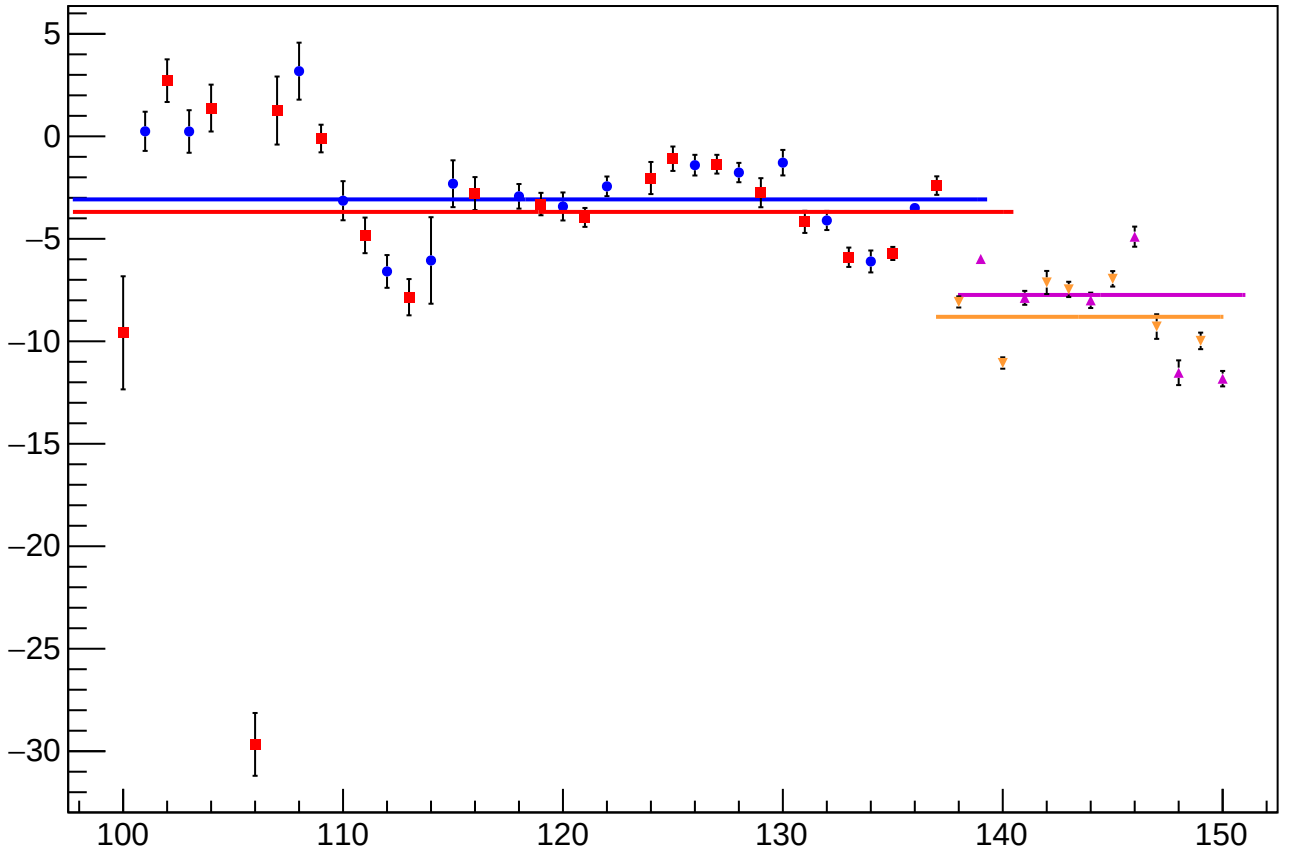
Right: 0.000+/-0.000 $\chi^2$/NDF: 29.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:12.3/21

Out: 0.000+/-0.000 $\chi^2$/NDF:26.4/25

All: 0.000+/-0.000 $\chi^2$/NDF: 39.0/47


asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
Right In: 0.000+/-0.000 χ²/NDF: 2822278.6/15
Left Out: 0.000+/-0.000 χ²/NDF:200241.6/6
Right Out: 0.000+/-0.000 χ²/NDF: 2440768.5/18
Left In: 0.000+/-0.000 χ²/NDF:444120.4/5
Left: 0.000+/-0.000 χ²/NDF: 774817.0/12
Right: 0.000+/-0.000 χ²/NDF: 5386653.4/34
In: 0.000+/-0.000 χ²/NDF:4495257.8/21
Out: 0.000+/-0.000 χ²/NDF:5296611.9/25
All: 0.000+/-0.000 χ²/NDF: 9962704.8/47




Right In: -3.077+/-0.135 $\chi^2$/NDF: 133.8/15

Left Out: -8.806+/-0.138 $\chi^2$/NDF:128.0/6

Right Out: -3.687+/-0.140 $\chi^2$/NDF: 534.8/18

Left In: -7.739+/-0.146 $\chi^2$/NDF:244.8/5

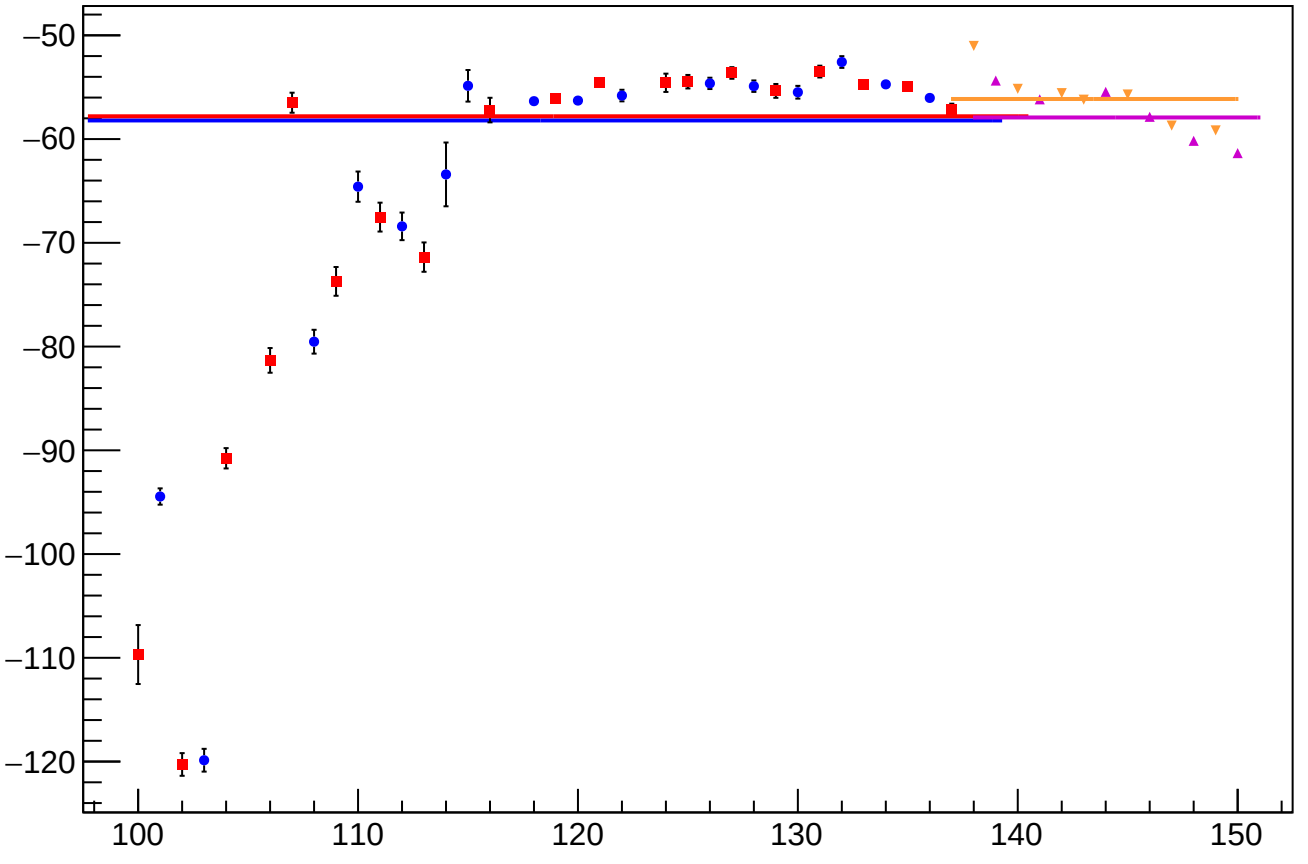
Left: -8.303+/-0.100 $\chi^2$/NDF: 401.1/12

Right: -3.371+/-0.097 $\chi^2$/NDF: 678.4/34

In: -5.233+/-0.099 $\chi^2$/NDF:928.3/21

Out: -6.294+/-0.098 $\chi^2$/NDF:1341.7/25

All: -5.769+/-0.070 $\chi^2$/NDF: 2327.8/47




Right In: -58.204+/-0.136 $\chi^2$/NDF: 6126.9/15

Left Out: -56.135+/-0.108 $\chi^2$/NDF:507.2/6

Right Out: -57.804+/-0.138 $\chi^2$/NDF: 5792.7/18

Left In: -57.917+/-0.118 $\chi^2$/NDF:434.6/5

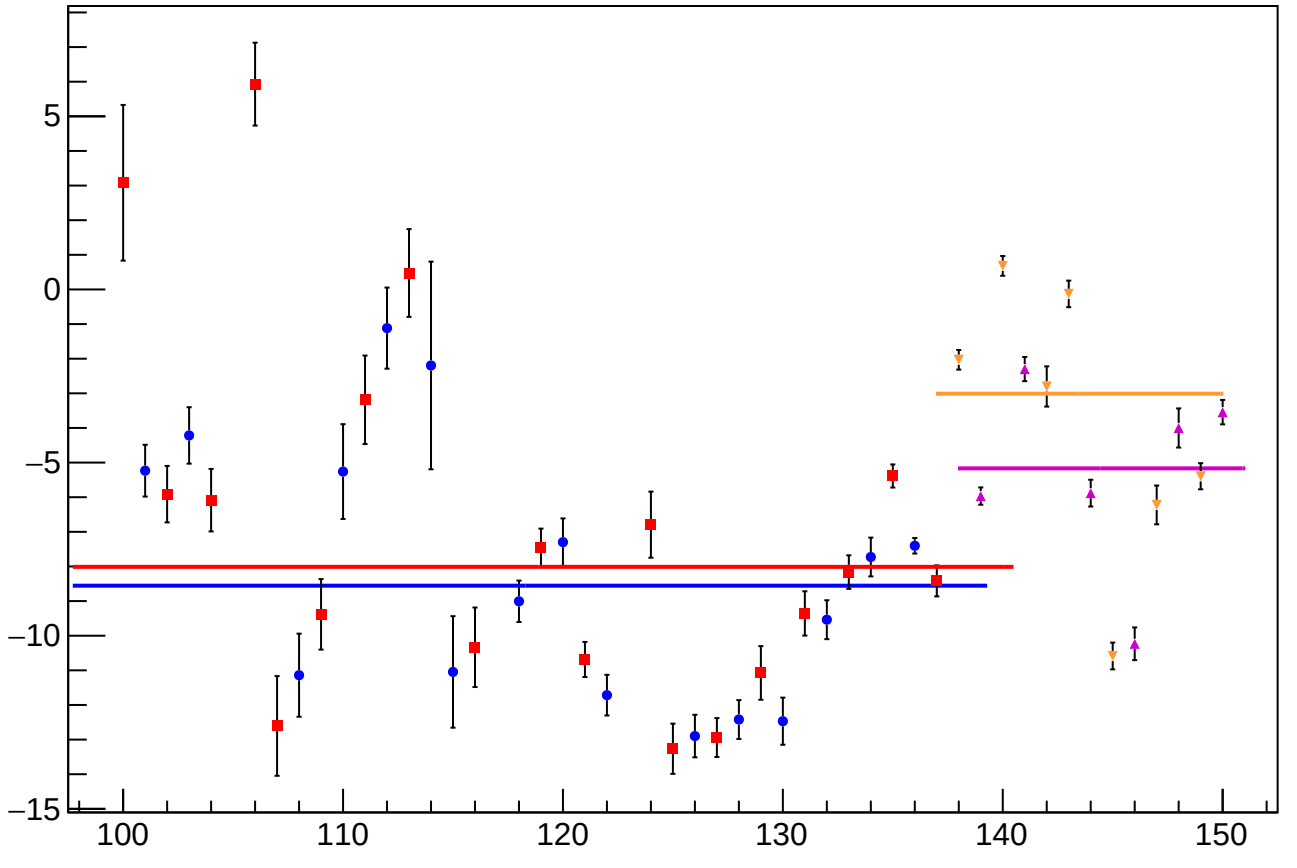
Left: -56.944+/-0.080 $\chi^2$/NDF: 1066.1/12

Right: -58.008+/-0.097 $\chi^2$/NDF: 11923.9/34

In: -58.041+/-0.089 $\chi^2$/NDF:6564.1/21

Out: -56.764+/-0.085 $\chi^2$/NDF:6390.4/25

All: -57.373+/-0.061 $\chi^2$/NDF: 13062.1/47




Right In: -8.555+/-0.145 $\chi^2$/NDF: 300.7/15

Left Out: -3.011+/-0.140 $\chi^2$/NDF:692.1/6

Right Out: -8.011+/-0.153 $\chi^2$/NDF: 489.3/18

Left In: -5.167+/-0.147 $\chi^2$/NDF:222.0/5

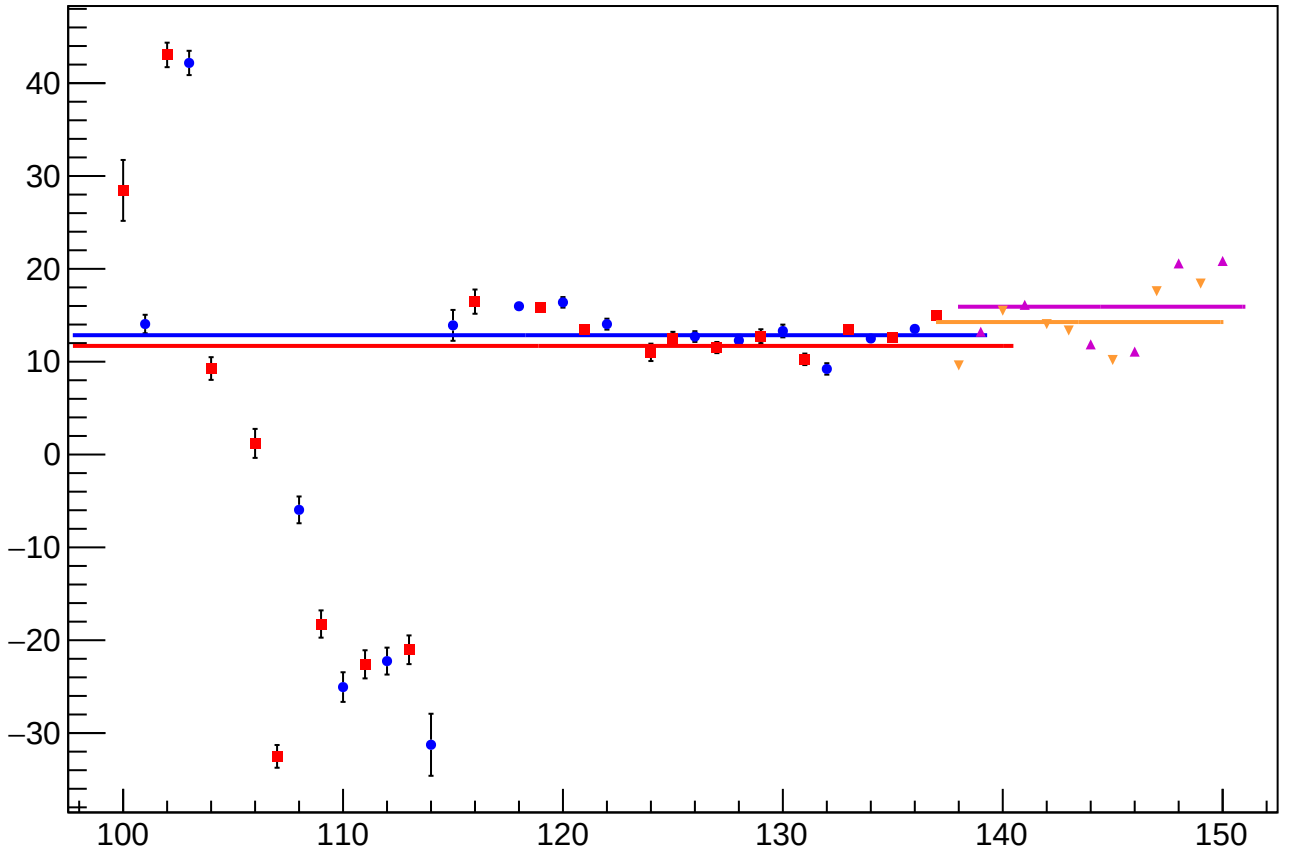
Left: -4.037+/-0.101 $\chi^2$/NDF: 1027.7/12

Right: -8.298+/-0.105 $\chi^2$/NDF: 796.7/34

In: -6.882+/-0.103 $\chi^2$/NDF:793.4/21

Out: -5.283+/-0.103 $\chi^2$/NDF:1764.7/25

All: -6.084+/-0.073 $\chi^2$/NDF: 2678.5/47




Right In: 12.853+/-0.150 $\chi^2$/NDF: 2128.4/15

Left Out: 14.270+/-0.128 $\chi^2$/NDF:593.6/6

Right Out: 11.699+/-0.155 $\chi^2$/NDF: 3498.8/18

Left In: 15.922+/-0.140 $\chi^2$/NDF:779.3/5

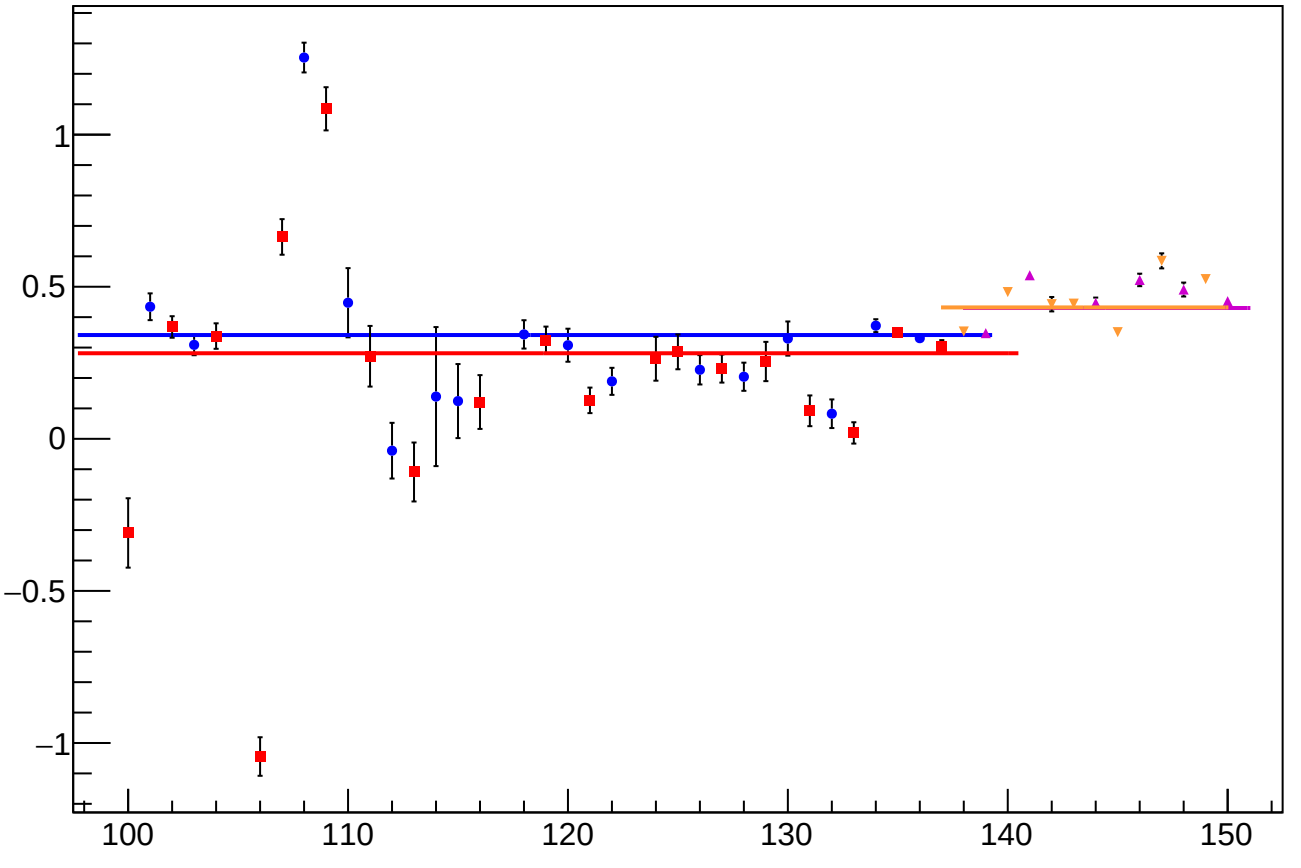
Left: 15.026+/-0.094 $\chi^2$/NDF: 1448.9/12

Right: 12.294+/-0.108 $\chi^2$/NDF: 5655.7/34

In: 14.502+/-0.102 $\chi^2$/NDF:3131.5/21

Out: 13.226+/-0.099 $\chi^2$/NDF:4255.6/25

All: 13.842+/-0.071 $\chi^2$/NDF: 7467.7/47




Right In: 0.341+/-0.008 $\chi^2$/NDF: 434.8/15

Left Out: 0.432+/-0.006 $\chi^2$/NDF:170.1/6

Right Out: 0.281+/-0.008 $\chi^2$/NDF: 777.6/18

Left In: 0.430+/-0.006 $\chi^2$/NDF:173.9/5

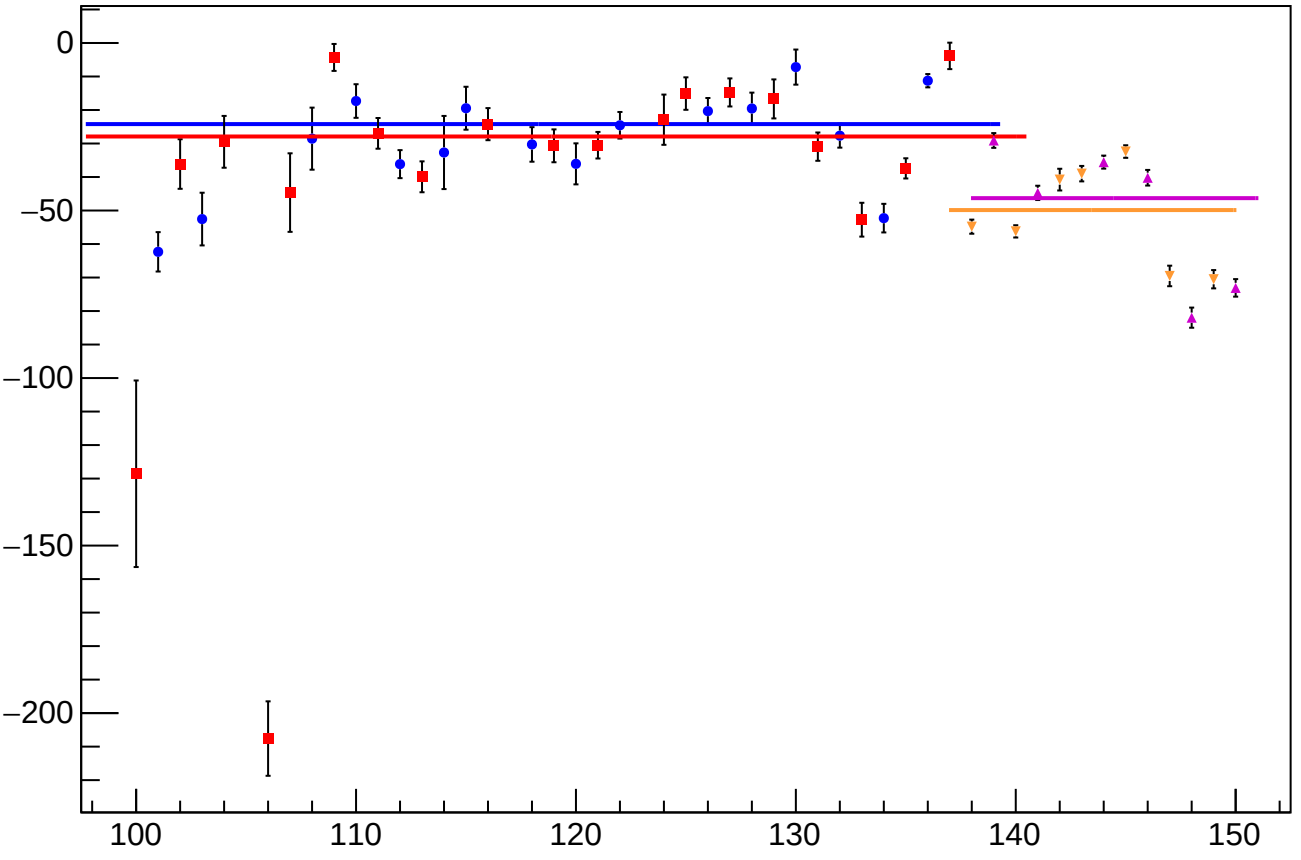
Left: 0.431+/-0.004 $\chi^2$/NDF: 344.0/12

Right: 0.313+/-0.006 $\chi^2$/NDF: 1239.2/34

In: 0.399+/-0.005 $\chi^2$/NDF:691.6/21

Out: 0.384+/-0.005 $\chi^2$/NDF:1164.3/25

All: 0.392+/-0.003 $\chi^2$/NDF: 1860.6/47




Right In: -24.205+/-1.086 $\chi^2$/NDF: 170.7/15

Left Out: -49.865+/-0.867 $\chi^2$/NDF:232.5/6

Right Out: -27.906+/-1.137 $\chi^2$/NDF: 413.4/18

Left In: -46.306+/-0.940 $\chi^2$/NDF:344.5/5

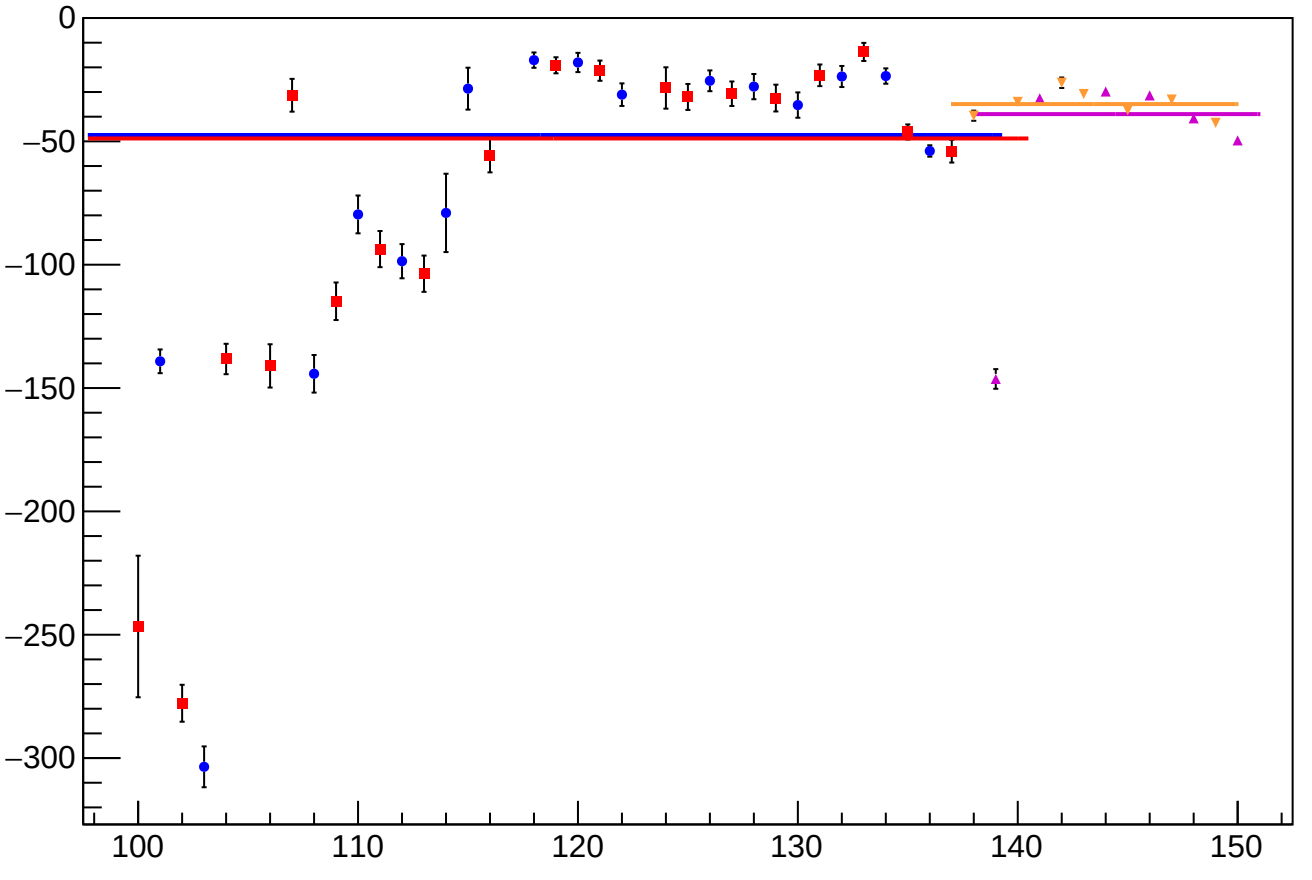
Left: -48.230+/-0.637 $\chi^2$/NDF: 584.8/12

Right: -25.971+/-0.785 $\chi^2$/NDF: 589.7/34

In: -36.839+/-0.711 $\chi^2$/NDF:751.8/21

Out: -41.792+/-0.689 $\chi^2$/NDF:881.8/25

All: -39.392+/-0.495 $\chi^2$/NDF: 1658.6/47




Right In: -47.421+/-1.101 $\chi^2$/NDF: 1873.5/15

Left Out: -34.888+/-0.632 $\chi^2$/NDF:51.7/6

Right Out: -48.831+/-1.182 $\chi^2$/NDF: 1774.6/18

Left In: -38.953+/-0.659 $\chi^2$/NDF:852.0/5

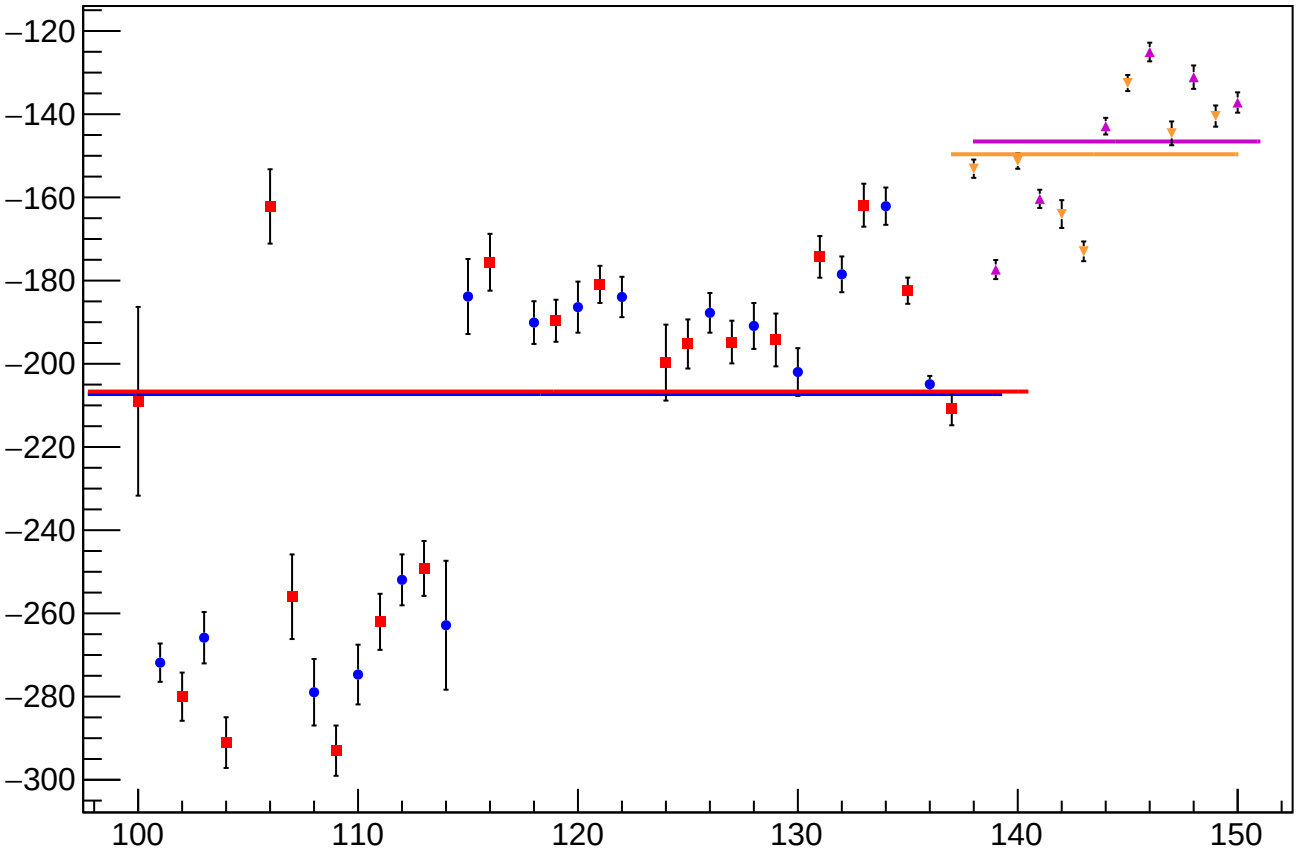
Left: -36.834+/-0.456 $\chi^2$/NDF: 923.6/12

Right: -48.076+/-0.806 $\chi^2$/NDF: 3648.9/34

In: -41.188+/-0.566 $\chi^2$/NDF:2769.1/21

Out: -37.983+/-0.557 $\chi^2$/NDF:1934.5/25

All: -39.562+/-0.397 $\chi^2$/NDF: 4719.9/47




Right In: -207.266+/-1.178 $\chi^2$/NDF: 748.5/15

Left Out: -149.632+/-0.877 $\chi^2$/NDF:212.9/6

Right Out: -206.673+/-1.279 $\chi^2$/NDF: 969.4/18

Left In: -146.559+/-0.936 $\chi^2$/NDF:359.9/5

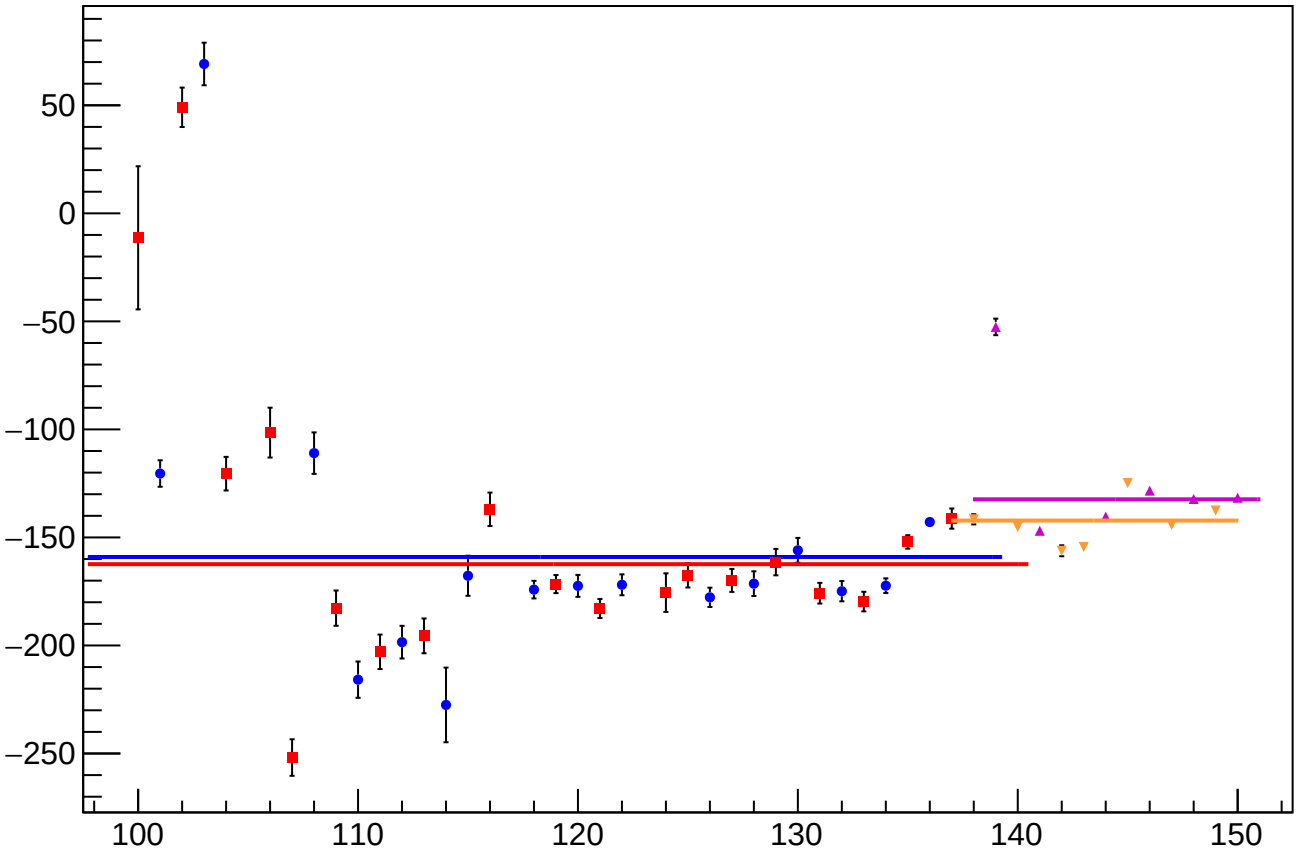
Left: -148.195+/-0.640 $\chi^2$/NDF: 578.5/12

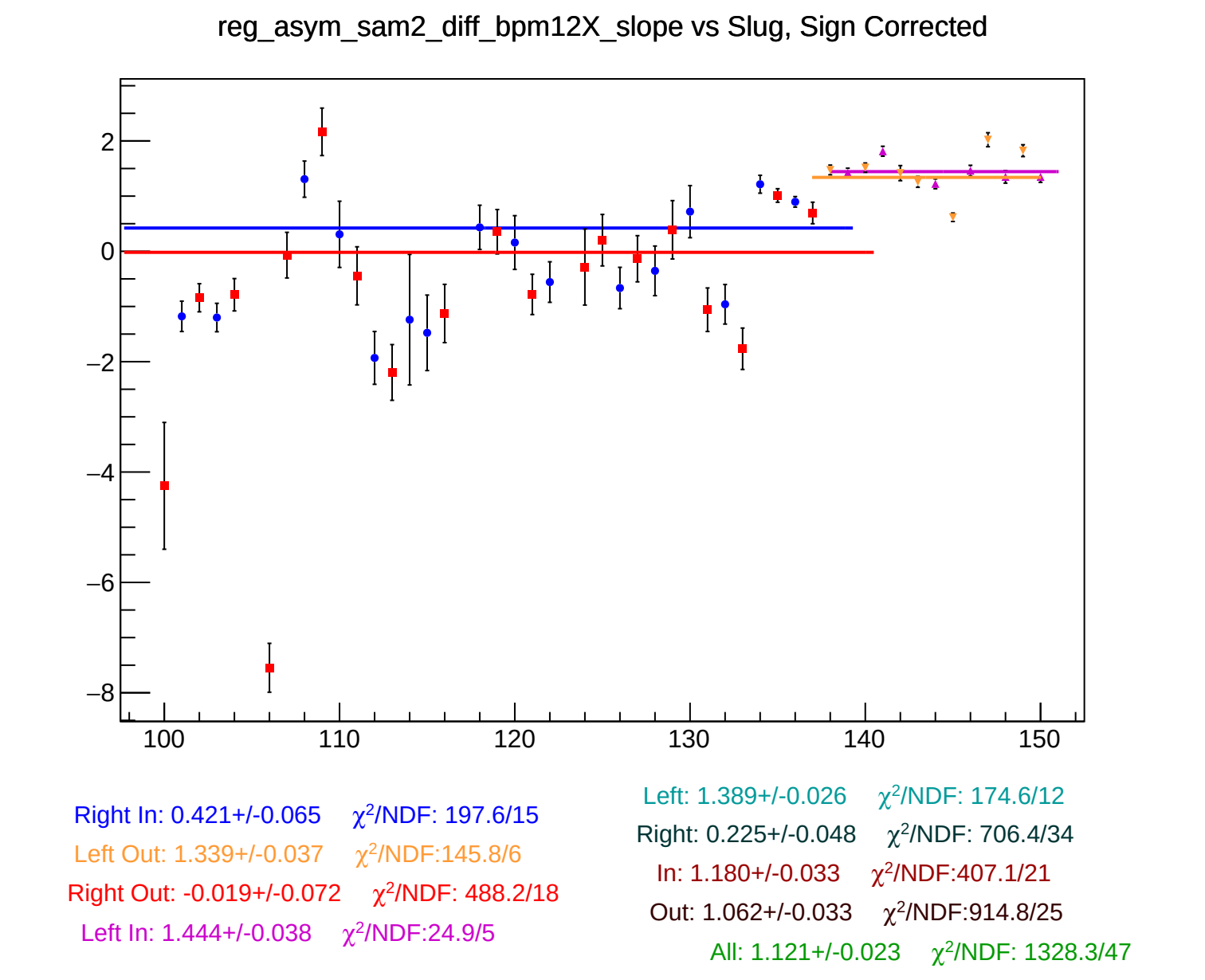
Right: -206.994+/-0.867 $\chi^2$/NDF: 1718.0/34

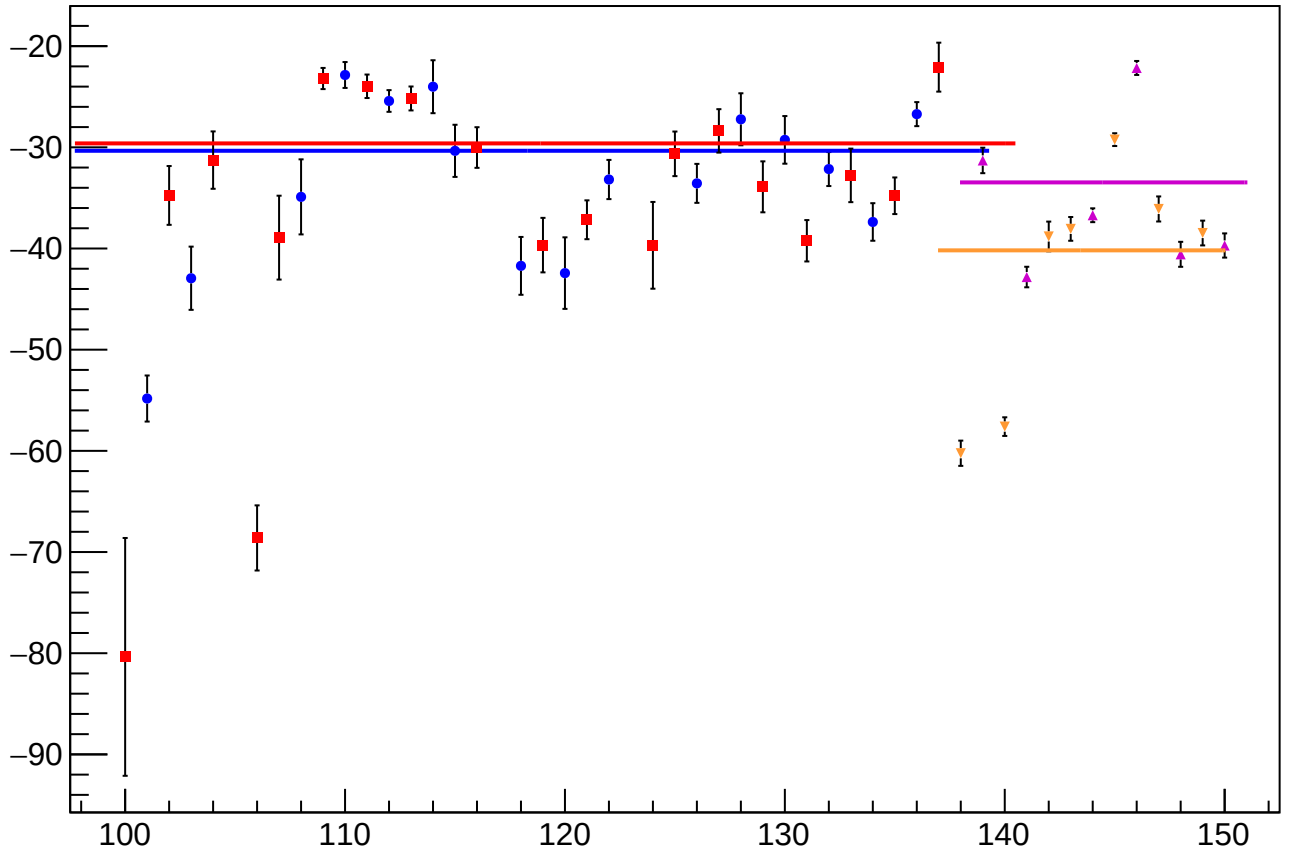
In: -170.058+/-0.733 $\chi^2$/NDF:2735.2/21

Out: -167.876+/-0.724 $\chi^2$/NDF:2534.1/25

All: -168.953+/-0.515 $\chi^2$/NDF: 5273.8/47


reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected
50
0
−50
−100
−150
−200
−250
100
110
120
130
140
150
Right In: -159.048+/-1.225 χ²/NDF: 815.8/15
Left Out: -142.183+/-0.765 χ²/NDF:174.5/6
Right Out: -162.370+/-1.324 χ²/NDF: 872.6/18
Left In: -132.366+/-0.804 χ²/NDF:525.3/5
Left: -137.520+/-0.554 χ²/NDF: 778.0/12
Right: -160.581+/-0.899 χ²/NDF: 1691.7/34
In: -140.399+/-0.672 χ²/NDF:1672.4/21
Out: -147.234+/-0.662 χ²/NDF:1221.4/25
All: -143.868+/-0.472 χ²/NDF: 2946.2/47


reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected
2
0
−2
−4
−6
−8
100
110
120
130
140
150
Right In: 0.421+/-0.065 χ²/NDF: 197.6/15
Left Out: 1.339+/-0.037 χ²/NDF:145.8/6
Right Out: -0.019+/-0.072 χ²/NDF: 488.2/18
Left In: 1.444+/-0.038 χ²/NDF:24.9/5
Left: 1.389+/-0.026 χ²/NDF: 174.6/12
Right: 0.225+/-0.048 χ²/NDF: 706.4/34
In: 1.180+/-0.033 χ²/NDF:407.1/21
Out: 1.062+/-0.033 χ²/NDF:914.8/25
All: 1.121+/-0.023 χ²/NDF: 1328.3/47




Right In: -30.341+/-0.468 $\chi^2$/NDF: 253.6/15

Left Out: -40.183+/-0.382 $\chi^2$/NDF:933.3/6

Right Out: -29.613+/-0.450 $\chi^2$/NDF: 329.2/18

Left In: -33.468+/-0.373 $\chi^2$/NDF:438.4/5

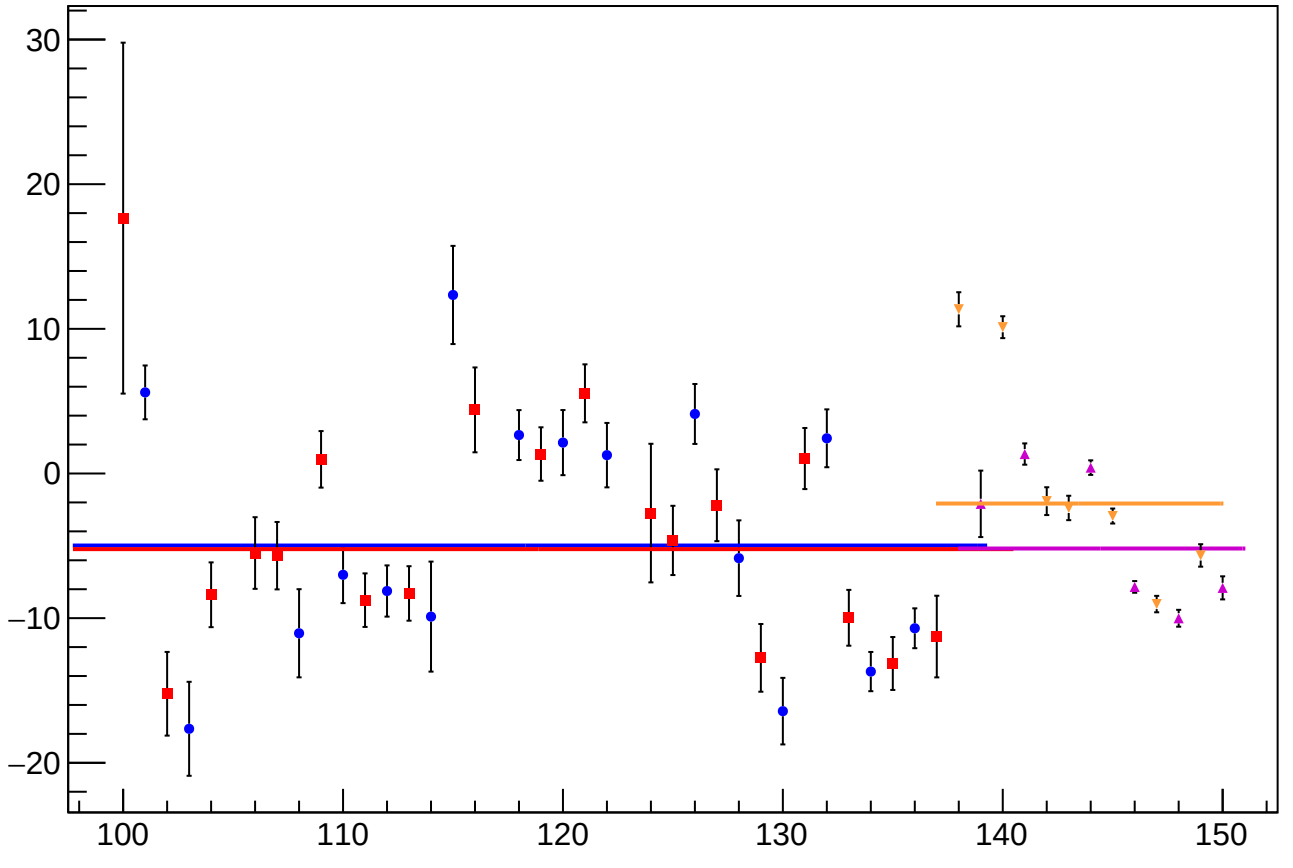
Left: -36.741+/-0.267 $\chi^2$/NDF: 1529.8/12

Right: -29.963+/-0.324 $\chi^2$/NDF: 584.0/34

In: -32.253+/-0.292 $\chi^2$/NDF:719.3/21

Out: -35.755+/-0.292 $\chi^2$/NDF:1582.5/25

All: -34.005+/-0.206 $\chi^2$/NDF: 2374.0/47




Right In: -4.980+/-0.510 $\chi^2$/NDF: 237.3/15

Left Out: -2.076+/-0.273 $\chi^2$/NDF:563.2/6

Right Out: -5.228+/-0.524 $\chi^2$/NDF: 136.5/18

Left In: -5.186+/-0.245 $\chi^2$/NDF:326.9/5

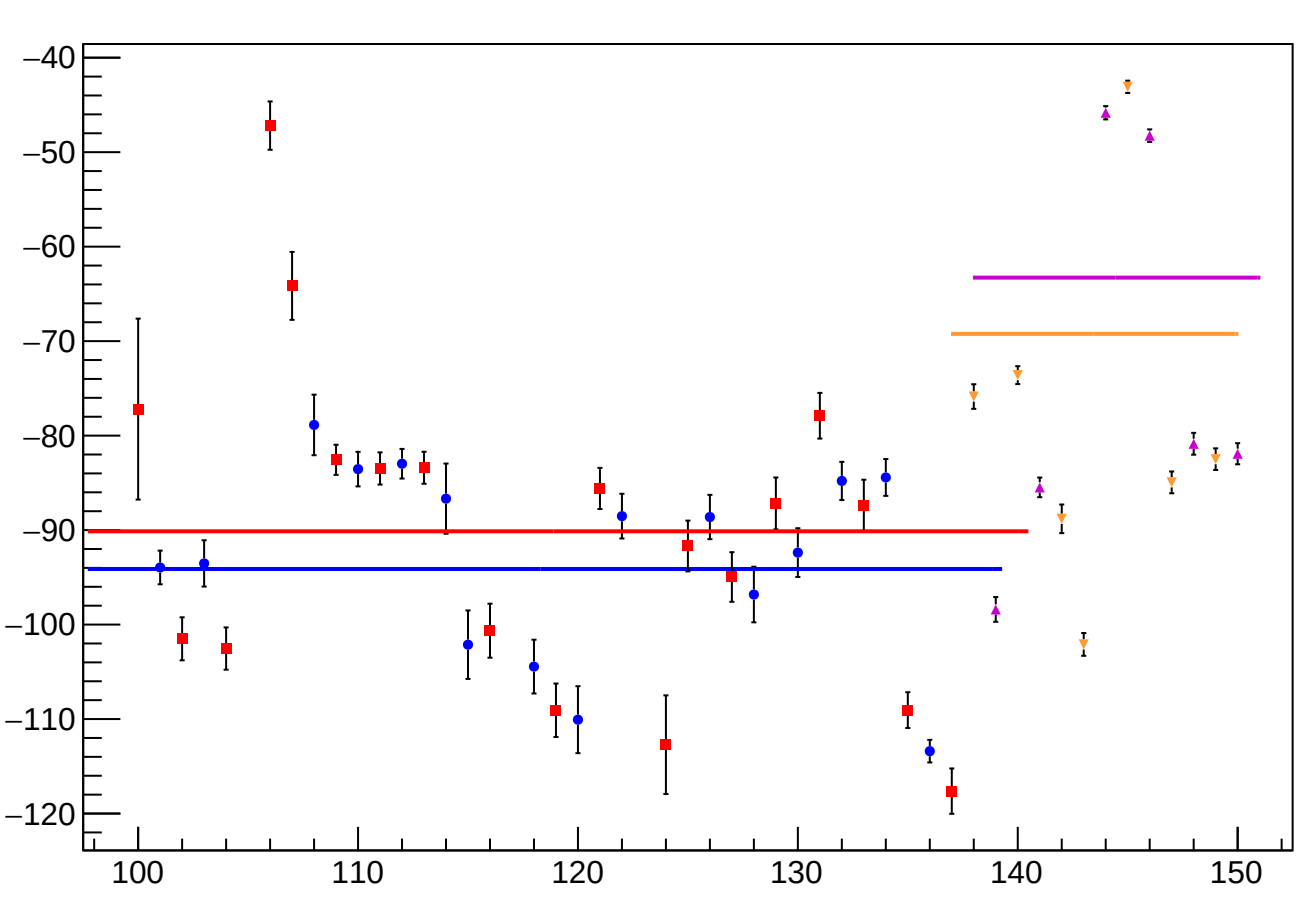
Left: -3.795+/-0.182 $\chi^2$/NDF: 961.9/12

Right: -5.100+/-0.365 $\chi^2$/NDF: 373.9/34

In: -5.147+/-0.221 $\chi^2$/NDF:564.4/21

Out: -2.749+/-0.242 $\chi^2$/NDF:728.1/25

All: -4.055+/-0.163 $\chi^2$/NDF: 1346.1/47




Right In: -94.115+/-0.537 $\chi^2$/NDF: 466.8/15

Left Out: -69.231+/-0.386 $\chi^2$/NDF:2891.8/6

Right Out: -90.127+/-0.543 $\chi^2$/NDF: 789.3/18

Left In: -63.278+/-0.369 $\chi^2$/NDF:2806.0/5

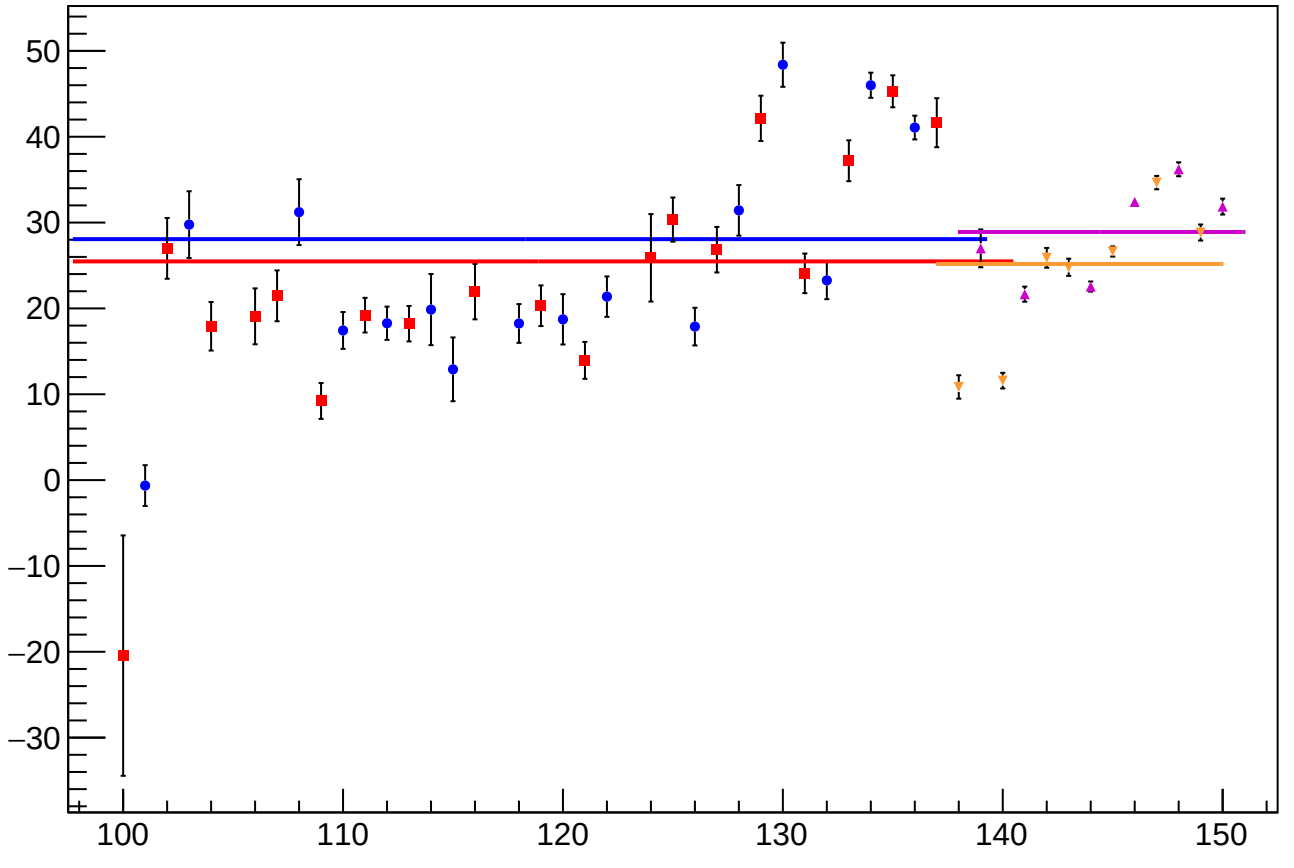
Left: -66.123+/-0.267 $\chi^2$/NDF: 5821.9/12

Right: -92.143+/-0.382 $\chi^2$/NDF: 1283.5/34

In: -73.185+/-0.304 $\chi^2$/NDF:5510.8/21

Out: -76.250+/-0.315 $\chi^2$/NDF:4664.8/25

All: -74.667+/-0.219 $\chi^2$/NDF: 10224.6/47




Right In: 28.068+/-0.569 $\chi^2$/NDF: 583.1/15

Left Out: 25.179+/-0.331 $\chi^2$/NDF:501.8/6

Right Out: 25.477+/-0.590 $\chi^2$/NDF: 354.6/18

Left In: 28.904+/-0.303 $\chi^2$/NDF:322.8/5

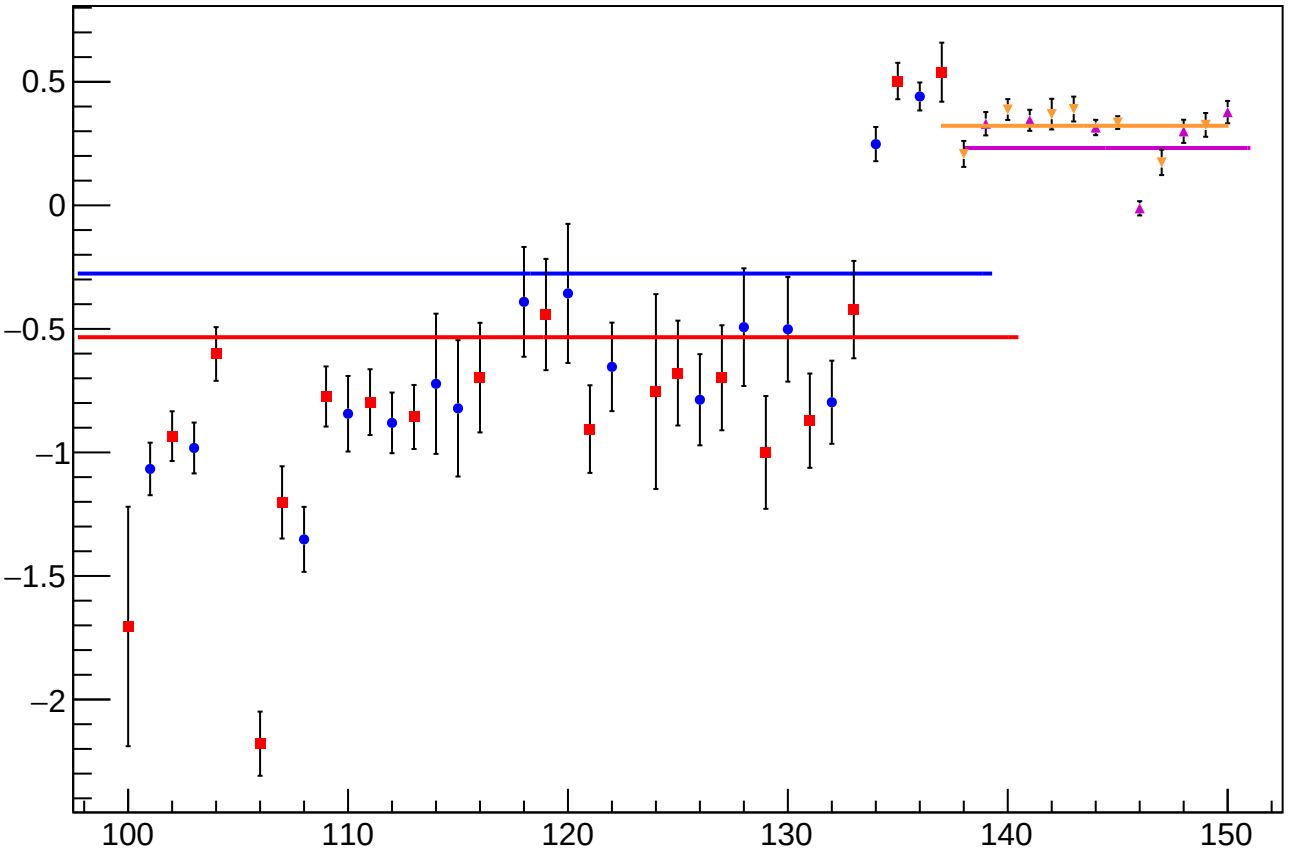
Left: 27.207+/-0.224 $\chi^2$/NDF: 893.6/12

Right: 26.821+/-0.410 $\chi^2$/NDF: 947.7/34

In: 28.720+/-0.267 $\chi^2$/NDF:907.6/21

Out: 25.250+/-0.289 $\chi^2$/NDF:856.7/25

All: 27.118+/-0.196 $\chi^2$/NDF: 1842.0/47




Right In: -0.276+/-0.031 $\chi^2$/NDF: 455.6/15

Left Out: 0.322+/-0.016 $\chi^2$/NDF:18.1/6

Right Out: -0.534+/-0.033 $\chi^2$/NDF: 510.3/18

Left In: 0.232+/-0.015 $\chi^2$/NDF:102.2/5

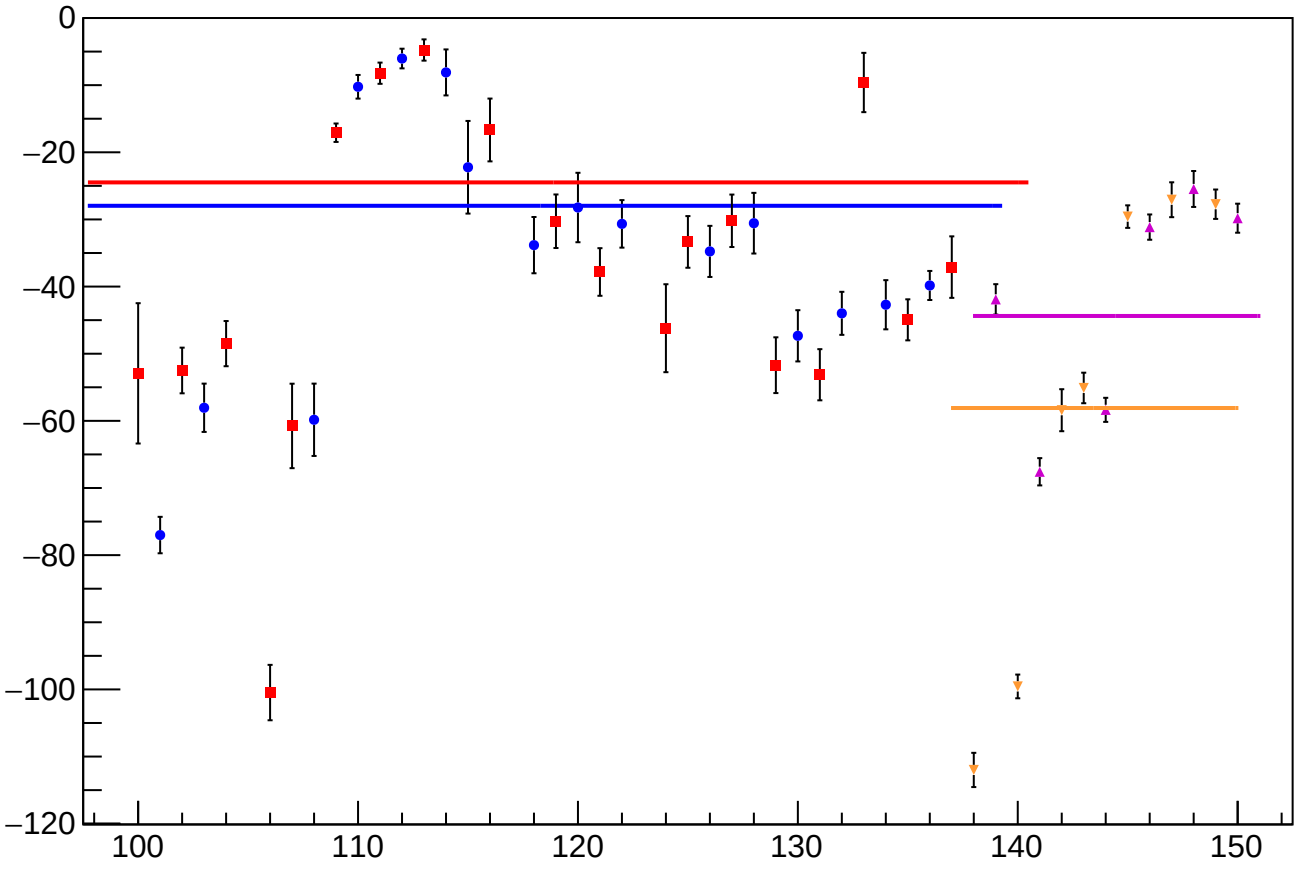
Left: 0.275+/-0.011 $\chi^2$/NDF: 136.6/12

Right: -0.396+/-0.022 $\chi^2$/NDF: 998.8/34

In: 0.129+/-0.014 $\chi^2$/NDF:777.1/21

Out: 0.157+/-0.014 $\chi^2$/NDF:1076.3/25

All: 0.143+/-0.010 $\chi^2$/NDF: 1855.5/47




Right In: -27.967+/-0.728 $\chi^2$/NDF: 894.7/15

Left Out: -58.086+/-0.822 $\chi^2$/NDF:1623.6/6

Right Out: -24.485+/-0.663 $\chi^2$/NDF: 989.7/18

Left In: -44.378+/-0.850 $\chi^2$/NDF:337.2/5

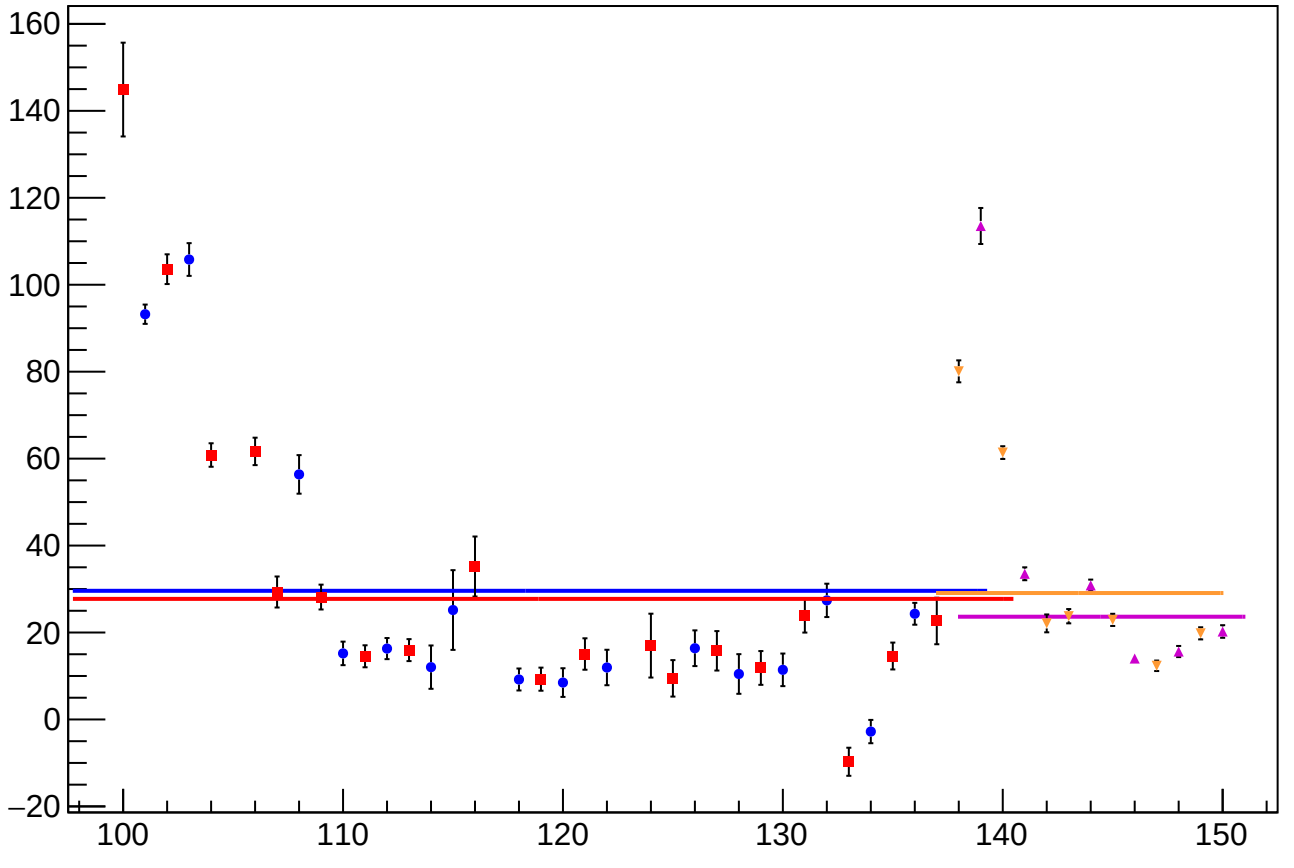
Left: -51.465+/-0.591 $\chi^2$/NDF: 2095.2/12

Right: -26.064+/-0.490 $\chi^2$/NDF: 1896.8/34

In: -34.907+/-0.553 $\chi^2$/NDF:1447.0/21

Out: -37.735+/-0.516 $\chi^2$/NDF:3626.5/25

All: -36.418+/-0.377 $\chi^2$/NDF: 5087.5/47




Right In: 29.594+/-0.807 $\chi^2$/NDF: 1665.7/15

Left Out: 29.084+/-0.584 $\chi^2$/NDF:1170.7/6

Right Out: 27.736+/-0.797 $\chi^2$/NDF: 1185.1/18

Left In: 23.635+/-0.585 $\chi^2$/NDF:659.5/5

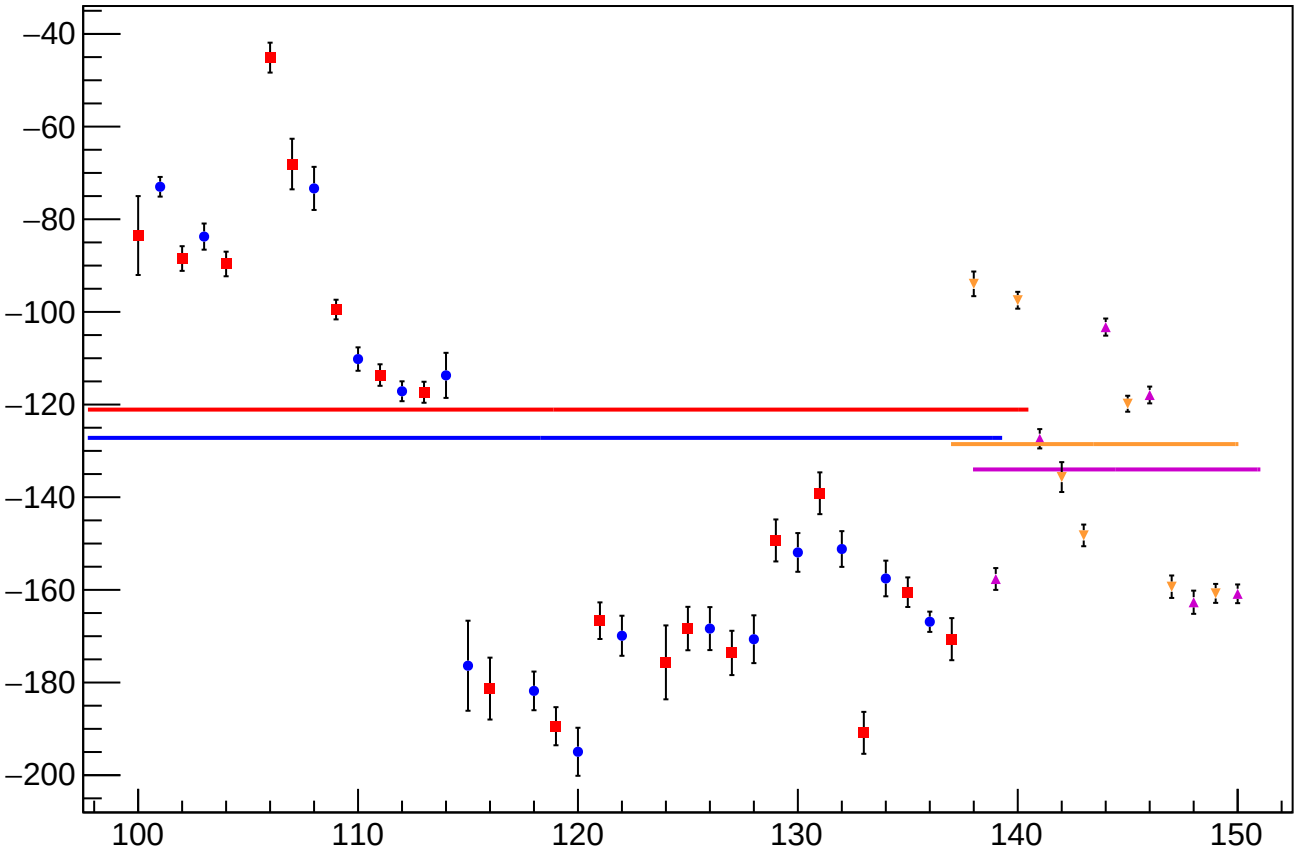
Left: 26.365+/-0.413 $\chi^2$/NDF: 1873.7/12

Right: 28.653+/-0.567 $\chi^2$/NDF: 2853.5/34

In: 25.685+/-0.473 $\chi^2$/NDF:2360.9/21

Out: 28.614+/-0.471 $\chi^2$/NDF:2357.6/25

All: 27.158+/-0.334 $\chi^2$/NDF: 4737.8/47




Right In: -127.190+/-0.829 $\chi^2$/NDF: 2178.2/15

Left Out: -128.534+/-0.825 $\chi^2$/NDF:972.5/6

Right Out: -121.086+/-0.798 $\chi^2$/NDF: 2397.3/18

Left In: -134.005+/-0.842 $\chi^2$/NDF:773.5/5

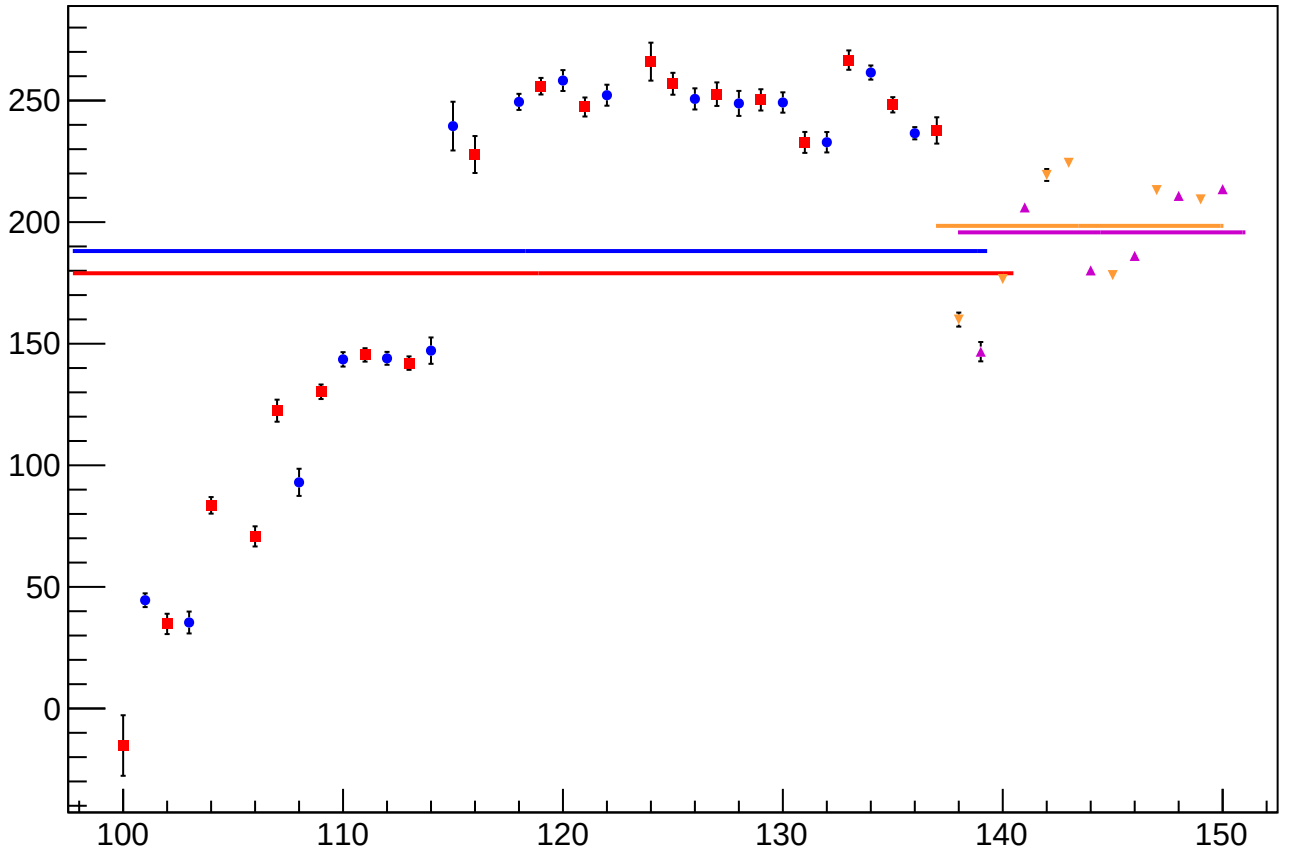
Left: -131.215+/-0.589 $\chi^2$/NDF: 1767.6/12

Right: -124.019+/-0.575 $\chi^2$/NDF: 4603.6/34

In: -130.548+/-0.591 $\chi^2$/NDF:2984.9/21

Out: -124.685+/-0.573 $\chi^2$/NDF:3411.9/25

All: -127.530+/-0.411 $\chi^2$/NDF: 6447.6/47




Right In: 188.107+/-0.918 $\chi^2$/NDF: 7118.6/15

Left Out: 198.464+/-0.709 $\chi^2$/NDF:864.8/6

Right Out: 178.971+/-0.908 $\chi^2$/NDF: 6668.8/18

Left In: 195.789+/-0.713 $\chi^2$/NDF:517.6/5

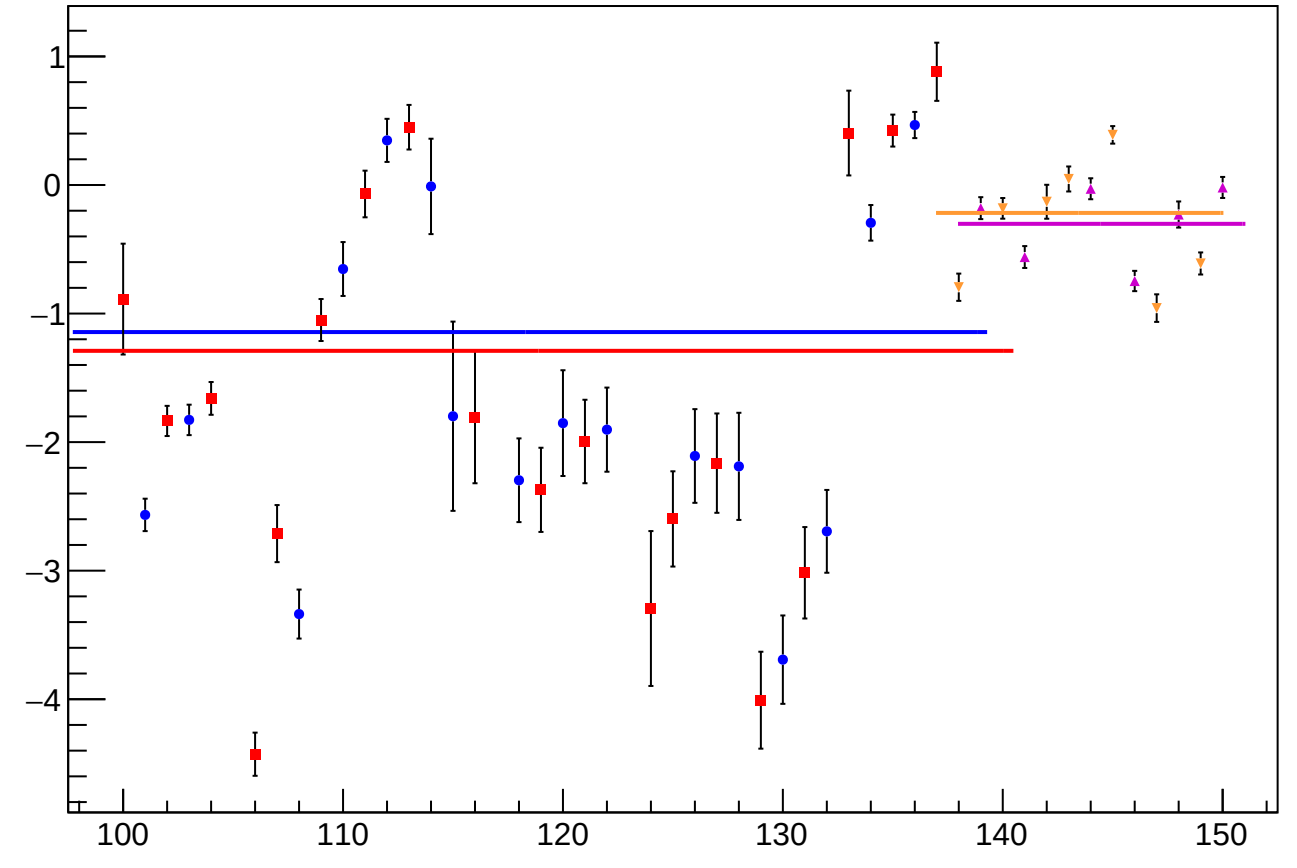
Left: 197.133+/-0.503 $\chi^2$/NDF: 1389.5/12

Right: 183.489+/-0.646 $\chi^2$/NDF: 13837.5/34

In: 192.901+/-0.563 $\chi^2$/NDF:7679.9/21

Out: 191.078+/-0.559 $\chi^2$/NDF:7819.8/25

All: 191.983+/-0.397 $\chi^2$/NDF: 15505.0/47




Right In: -1.144+/-0.048 $\chi^2$/NDF: 787.4/15

Left Out: -0.217+/-0.034 $\chi^2$/NDF:185.6/6

Right Out: -1.290+/-0.047 $\chi^2$/NDF: 998.3/18

Left In: -0.302+/-0.035 $\chi^2$/NDF:66.7/5

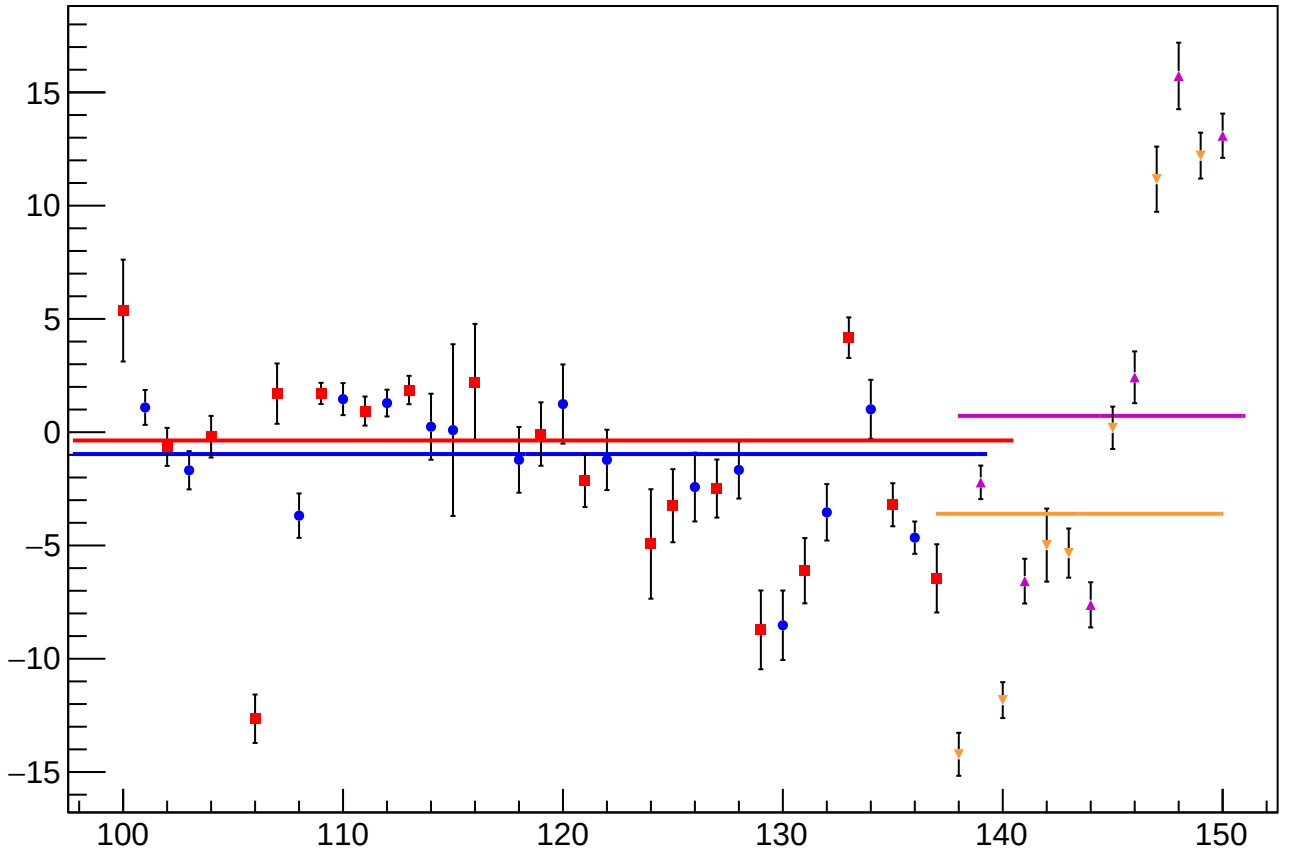
Left: -0.259+/-0.024 $\chi^2$/NDF: 255.3/12

Right: -1.218+/-0.034 $\chi^2$/NDF: 1790.3/34

In: -0.590+/-0.028 $\chi^2$/NDF:1056.2/21

Out: -0.587+/-0.028 $\chi^2$/NDF:1518.9/25

All: -0.589+/-0.020 $\chi^2$/NDF: 2575.1/47




Right In: -0.964+/-0.253 $\chi^2$/NDF: 103.2/15

Left Out: -3.601+/-0.391 $\chi^2$/NDF:601.2/6

Right Out: -0.365+/-0.224 $\chi^2$/NDF: 280.6/18

Left In: 0.721+/-0.404 $\chi^2$/NDF:407.1/5

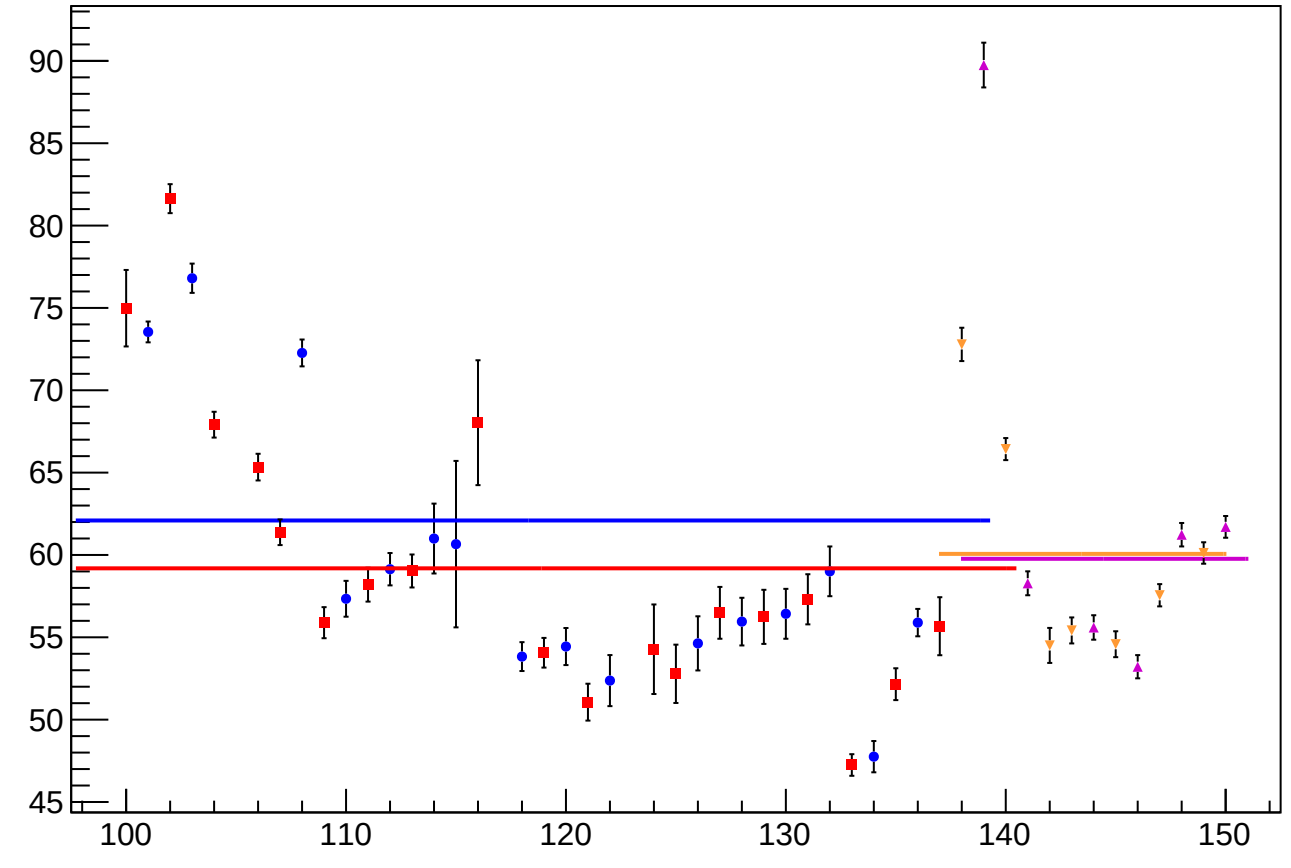
Left: -1.510+/-0.281 $\chi^2$/NDF: 1067.4/12

Right: -0.628+/-0.168 $\chi^2$/NDF: 386.9/34

In: -0.489+/-0.215 $\chi^2$/NDF:522.7/21

Out: -1.163+/-0.194 $\chi^2$/NDF:933.4/25

All: -0.859+/-0.144 $\chi^2$/NDF: 1461.6/47




Right In: 62.094+/-0.265 $\chi^2$/NDF: 1301.3/15

Left Out: 60.065+/-0.290 $\chi^2$/NDF:372.7/6

Right Out: 59.188+/-0.244 $\chi^2$/NDF: 1402.1/18

Left In: 59.766+/-0.308 $\chi^2$/NDF:621.7/5

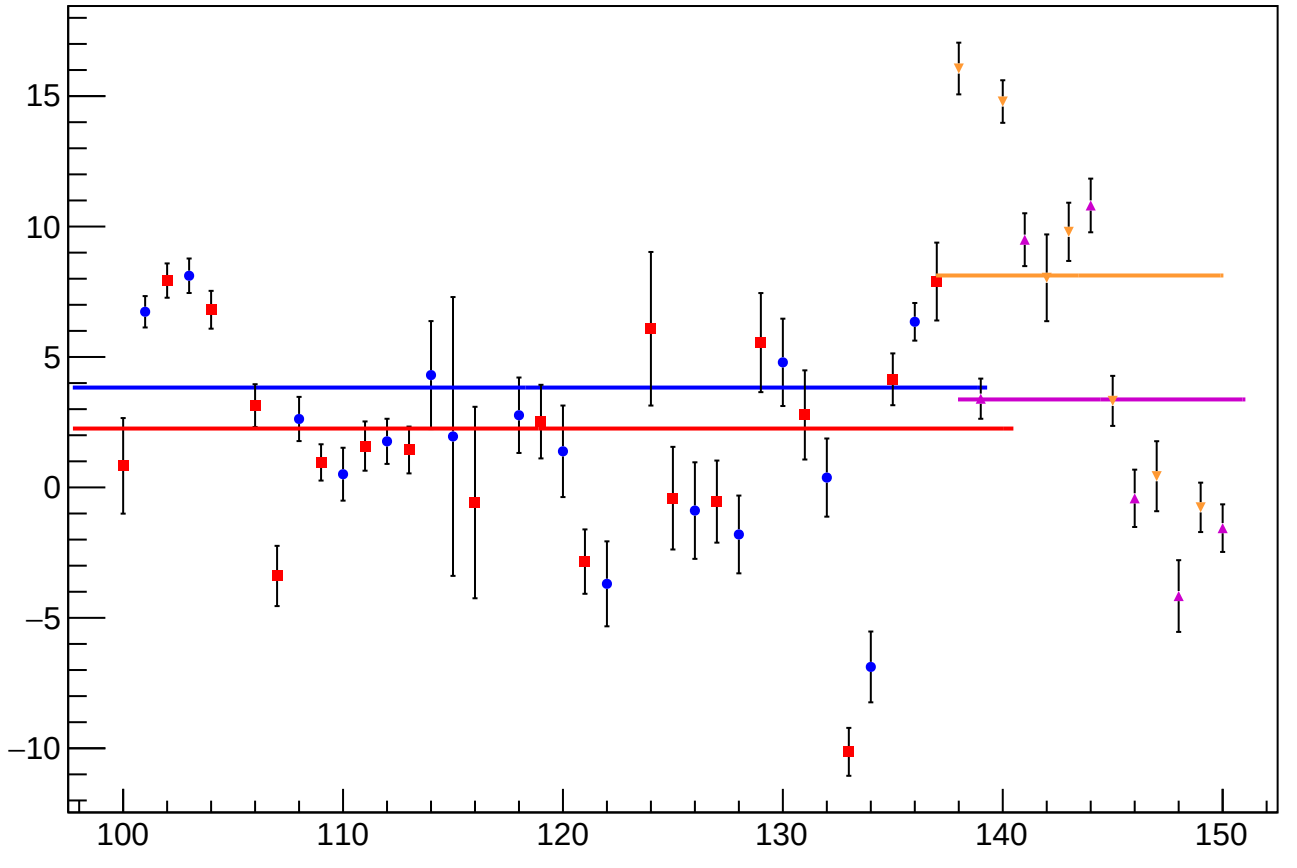
Left: 59.925+/-0.211 $\chi^2$/NDF: 994.9/12

Right: 60.518+/-0.180 $\chi^2$/NDF: 2768.4/34

In: 61.102+/-0.201 $\chi^2$/NDF:1955.7/21

Out: 59.551+/-0.187 $\chi^2$/NDF:1780.2/25

All: 60.269+/-0.137 $\chi^2$/NDF: 3768.0/47




Right In: 3.828+/-0.265 $\chi^2$/NDF: 208.6/15

Left Out: 8.124+/-0.394 $\chi^2$/NDF:279.2/6

Right Out: 2.257+/-0.246 $\chi^2$/NDF: 371.9/18

Left In: 3.372+/-0.403 $\chi^2$/NDF:160.0/5

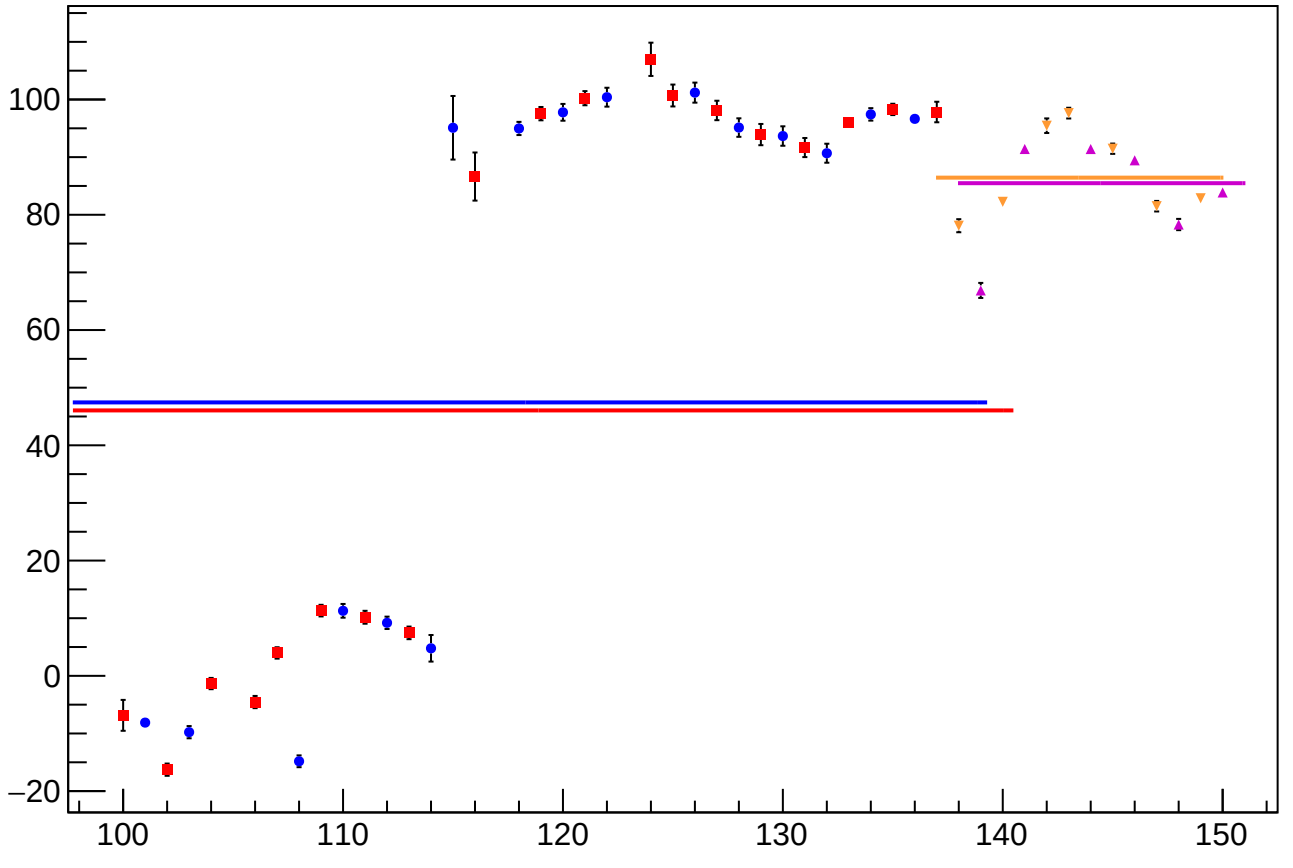
Left: 5.800+/-0.282 $\chi^2$/NDF: 510.3/12

Right: 2.985+/-0.181 $\chi^2$/NDF: 599.4/34

In: 3.690+/-0.222 $\chi^2$/NDF:369.5/21

Out: 3.907+/-0.209 $\chi^2$/NDF:810.5/25

All: 3.805+/-0.152 $\chi^2$/NDF: 1180.5/47




Right In: 47.443+/-0.308 $\chi^2$/NDF: 26886.9/15

Left Out: 86.442+/-0.349 $\chi^2$/NDF:358.2/6

Right Out: 46.053+/-0.284 $\chi^2$/NDF: 28897.8/18

Left In: 85.479+/-0.368 $\chi^2$/NDF:376.7/5

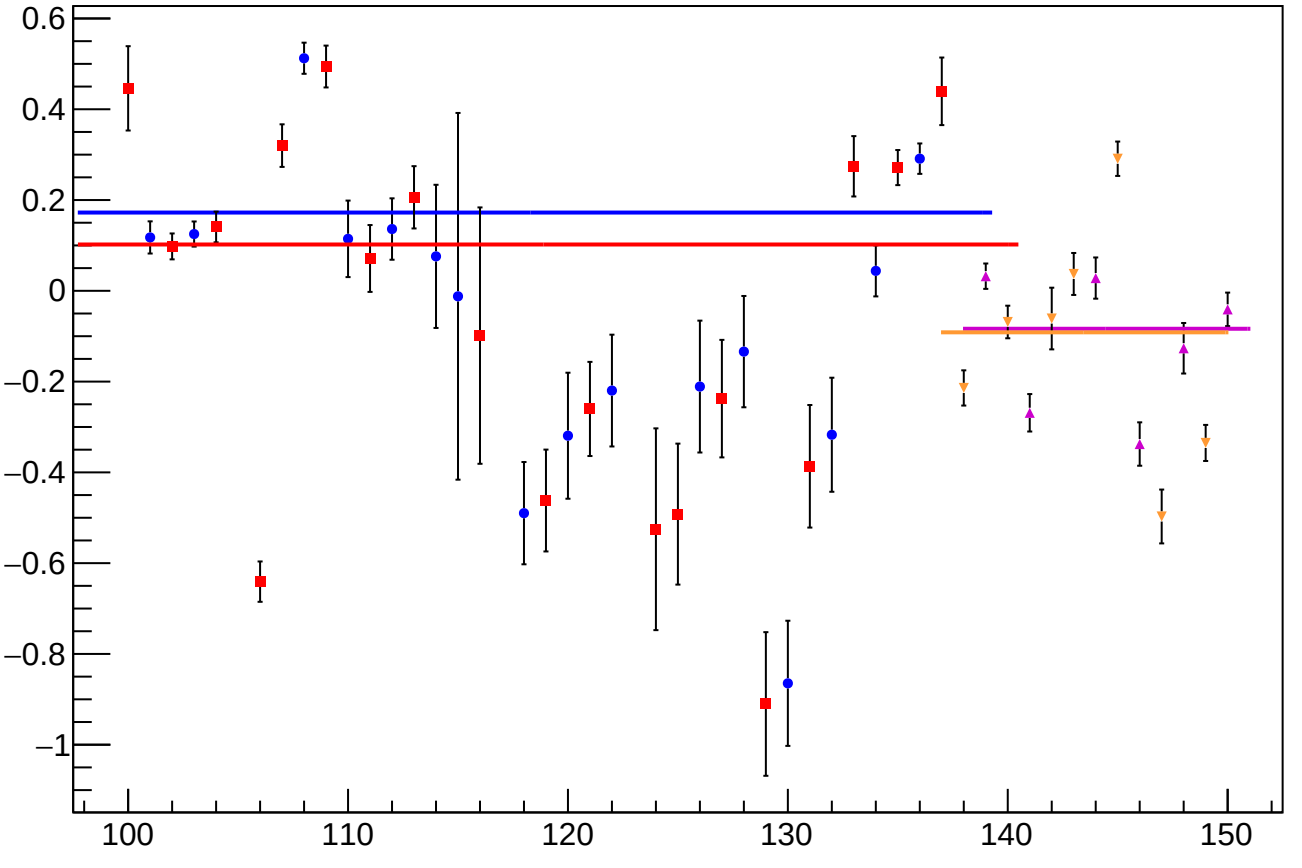
Left: 85.986+/-0.254 $\chi^2$/NDF: 738.6/12

Right: 46.693+/-0.209 $\chi^2$/NDF: 55795.7/34

In: 63.097+/-0.236 $\chi^2$/NDF:33537.7/21

Out: 62.150+/-0.221 $\chi^2$/NDF:37292.1/25

All: 62.591+/-0.161 $\chi^2$/NDF: 70838.3/47




Right In: 0.172+/-0.014 $\chi^2$/NDF: 265.0/15

Left Out: -0.091+/-0.016 $\chi^2$/NDF:204.7/6

Right Out: 0.102+/-0.013 $\chi^2$/NDF: 558.7/18

Left In: -0.084+/-0.016 $\chi^2$/NDF:73.5/5

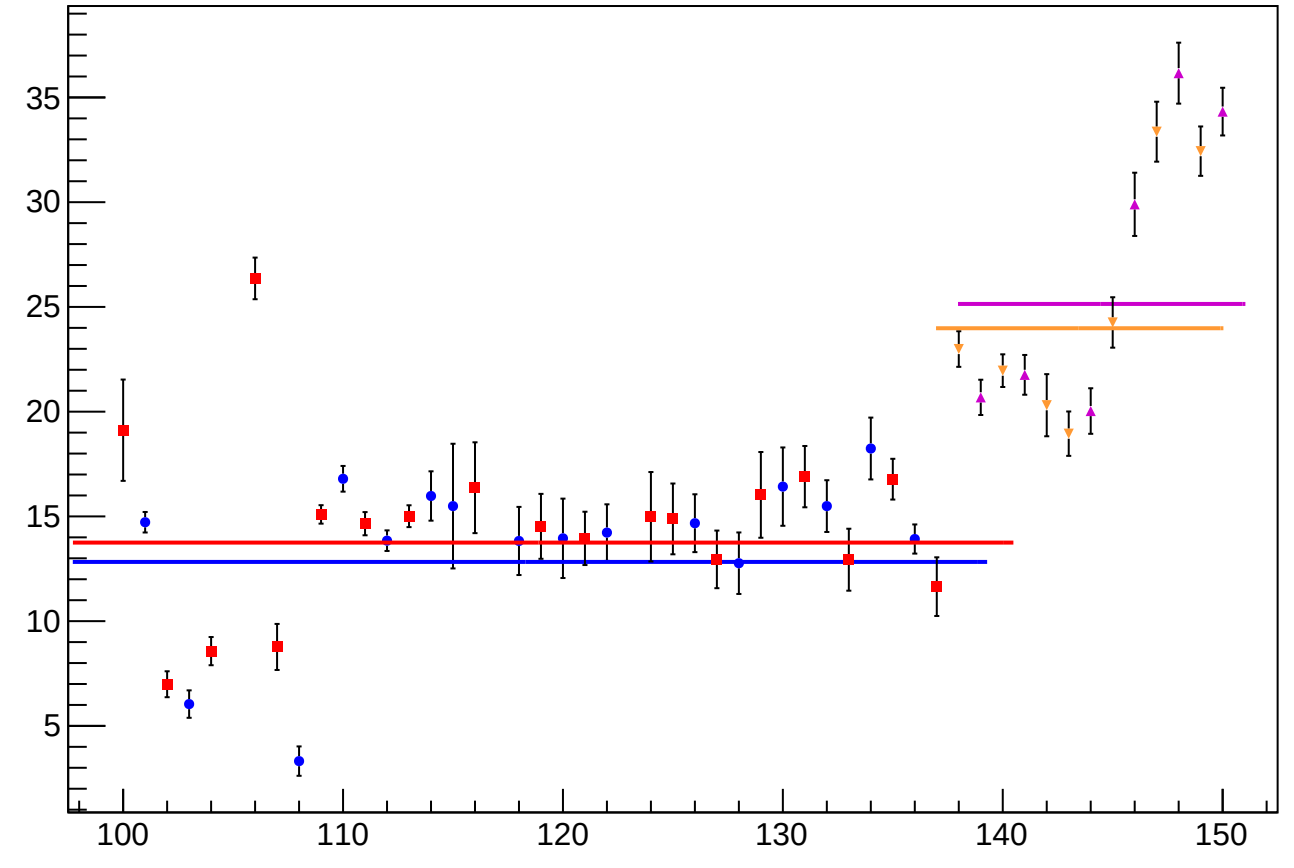
Left: -0.087+/-0.011 $\chi^2$/NDF: 278.3/12

Right: 0.135+/-0.010 $\chi^2$/NDF: 836.7/34

In: 0.061+/-0.011 $\chi^2$/NDF:480.9/21

Out: 0.024+/-0.010 $\chi^2$/NDF:846.9/25

All: 0.042+/-0.007 $\chi^2$/NDF: 1334.1/47




Right In: 12.827+/-0.214 $\chi^2$/NDF: 388.0/15

Left Out: 23.982+/-0.399 $\chi^2$/NDF:131.3/6

Right Out: 13.750+/-0.204 $\chi^2$/NDF: 404.0/18

Left In: 25.142+/-0.445 $\chi^2$/NDF:195.2/5

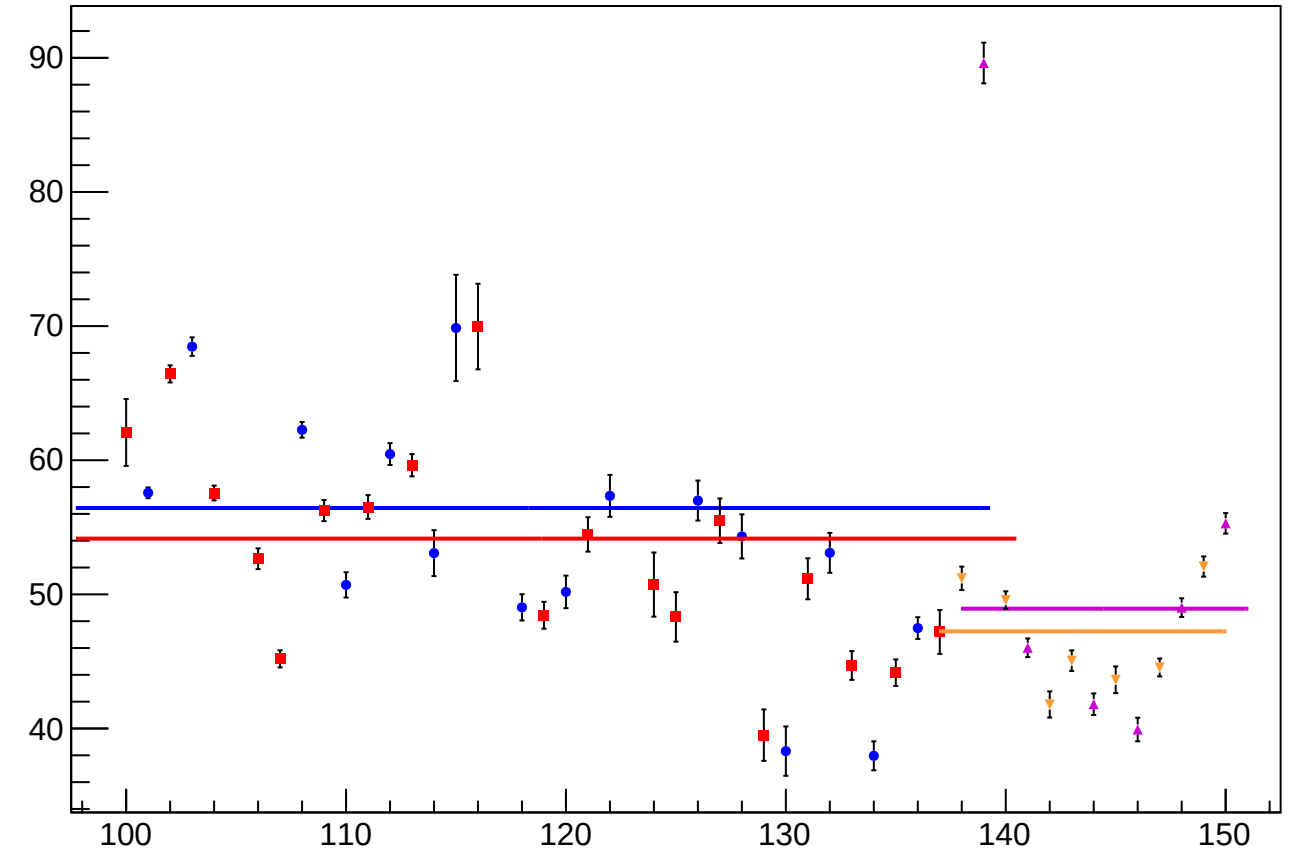
Left: 24.500+/-0.297 $\chi^2$/NDF: 330.2/12

Right: 13.311+/-0.148 $\chi^2$/NDF: 801.7/34

In: 15.141+/-0.193 $\chi^2$/NDF:1205.1/21

Out: 15.870+/-0.182 $\chi^2$/NDF:1055.8/25

All: 15.527+/-0.132 $\chi^2$/NDF: 2268.4/47




Right In: 56.438+/-0.222 $\chi^2$/NDF: 1088.0/15

Left Out: 47.246+/-0.296 $\chi^2$/NDF:143.2/6

Right Out: 54.156+/-0.225 $\chi^2$/NDF: 1006.6/18

Left In: 48.933+/-0.331 $\chi^2$/NDF:989.4/5

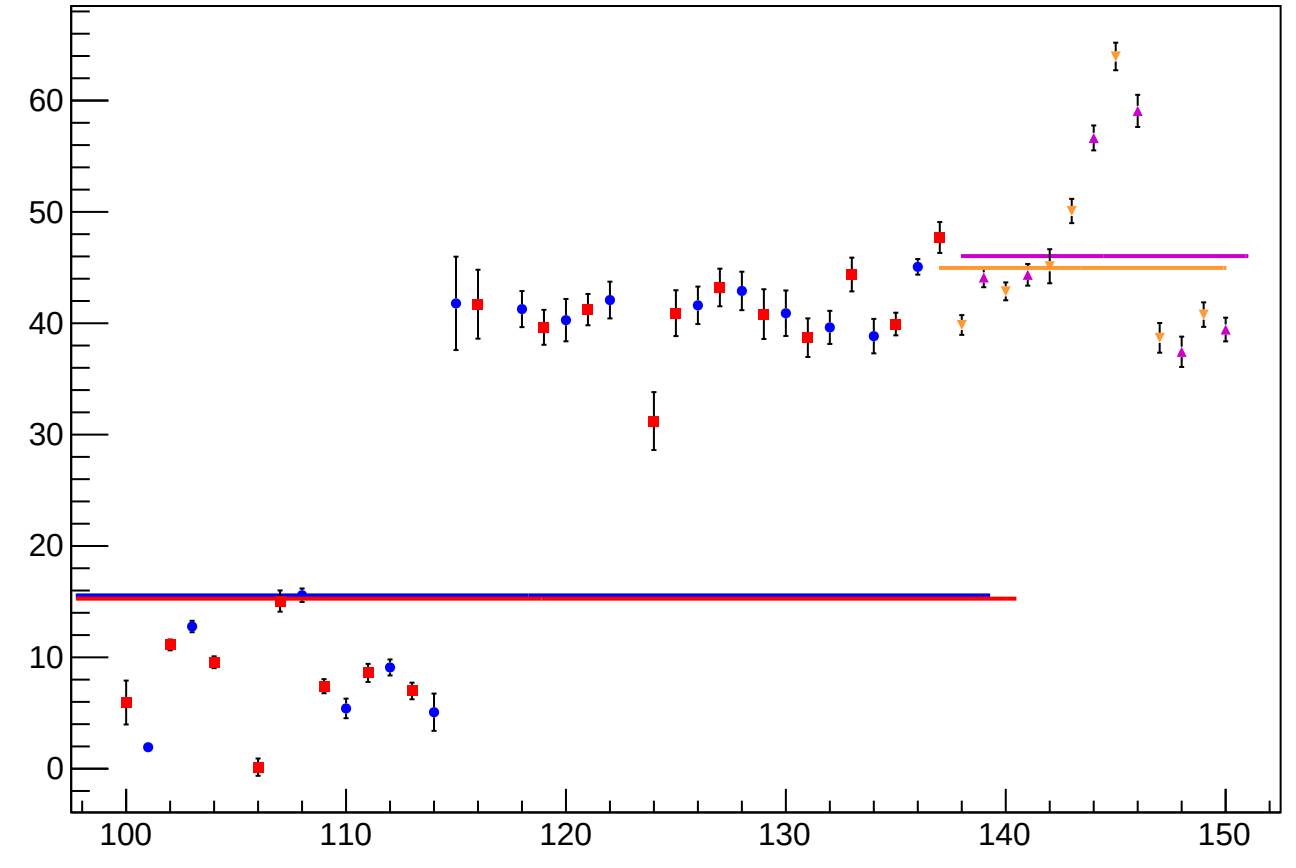
Left: 47.994+/-0.221 $\chi^2$/NDF: 1147.0/12

Right: 55.311+/-0.158 $\chi^2$/NDF: 2146.9/34

In: 54.116+/-0.184 $\chi^2$/NDF:2431.7/21

Out: 51.630+/-0.179 $\chi^2$/NDF:1496.1/25

All: 52.835+/-0.128 $\chi^2$/NDF: 4021.4/47




Right In: 15.561+/-0.214 $\chi^2$/NDF: 5176.0/15

Left Out: 44.970+/-0.404 $\chi^2$/NDF:334.0/6

Right Out: 15.272+/-0.219 $\chi^2$/NDF: 3873.0/18

Left In: 46.032+/-0.445 $\chi^2$/NDF:257.4/5

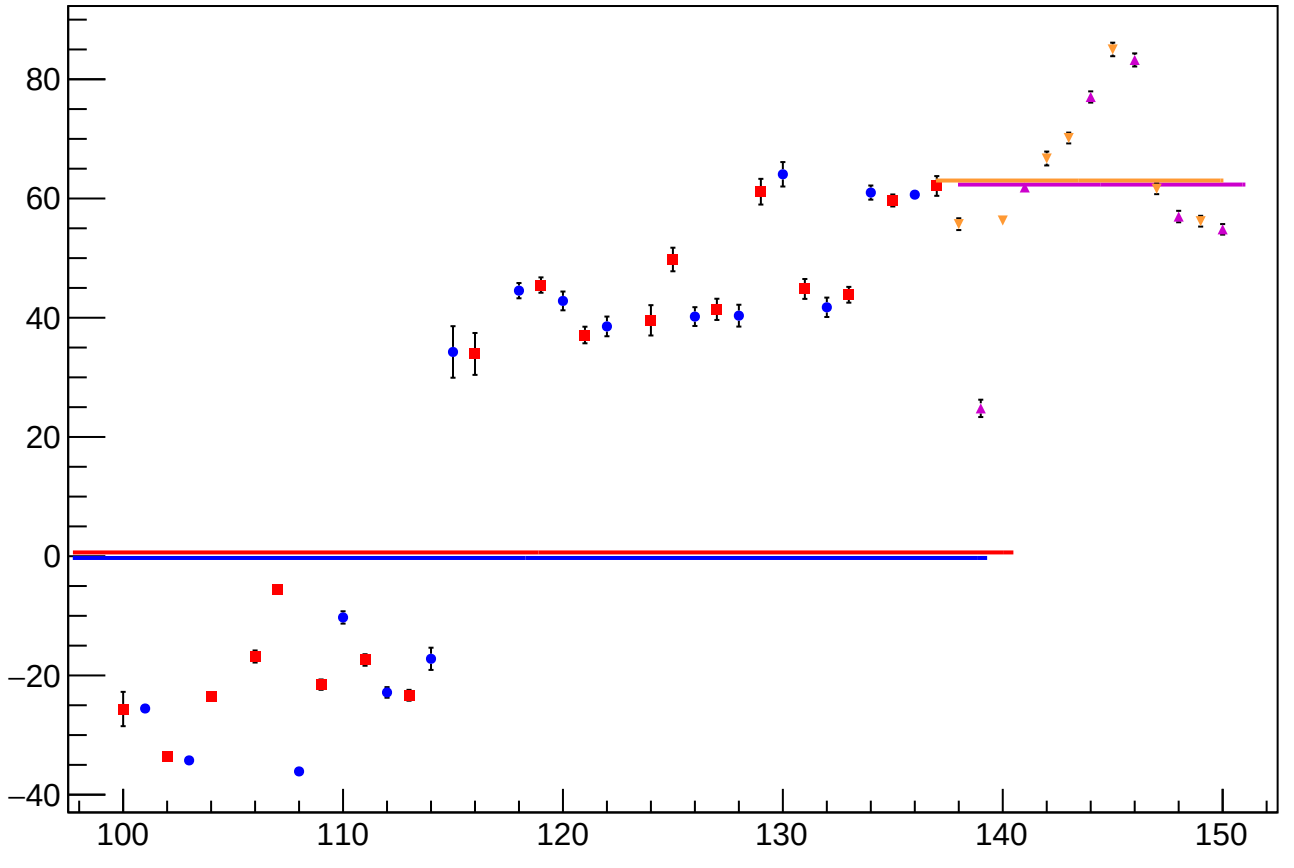
Left: 45.450+/-0.299 $\chi^2$/NDF: 594.5/12

Right: 15.420+/-0.153 $\chi^2$/NDF: 9050.0/34

In: 21.287+/-0.193 $\chi^2$/NDF:9244.0/21

Out: 22.027+/-0.193 $\chi^2$/NDF:8384.6/25

All: 21.658+/-0.136 $\chi^2$/NDF: 17636.0/47




Right In: -0.296+/-0.261 $\chi^2$/NDF: 21030.9/15

Left Out: 63.014+/-0.358 $\chi^2$/NDF:633.4/6

Right Out: 0.633+/-0.264 $\chi^2$/NDF: 16028.1/18

Left In: 62.339+/-0.400 $\chi^2$/NDF:1374.0/5

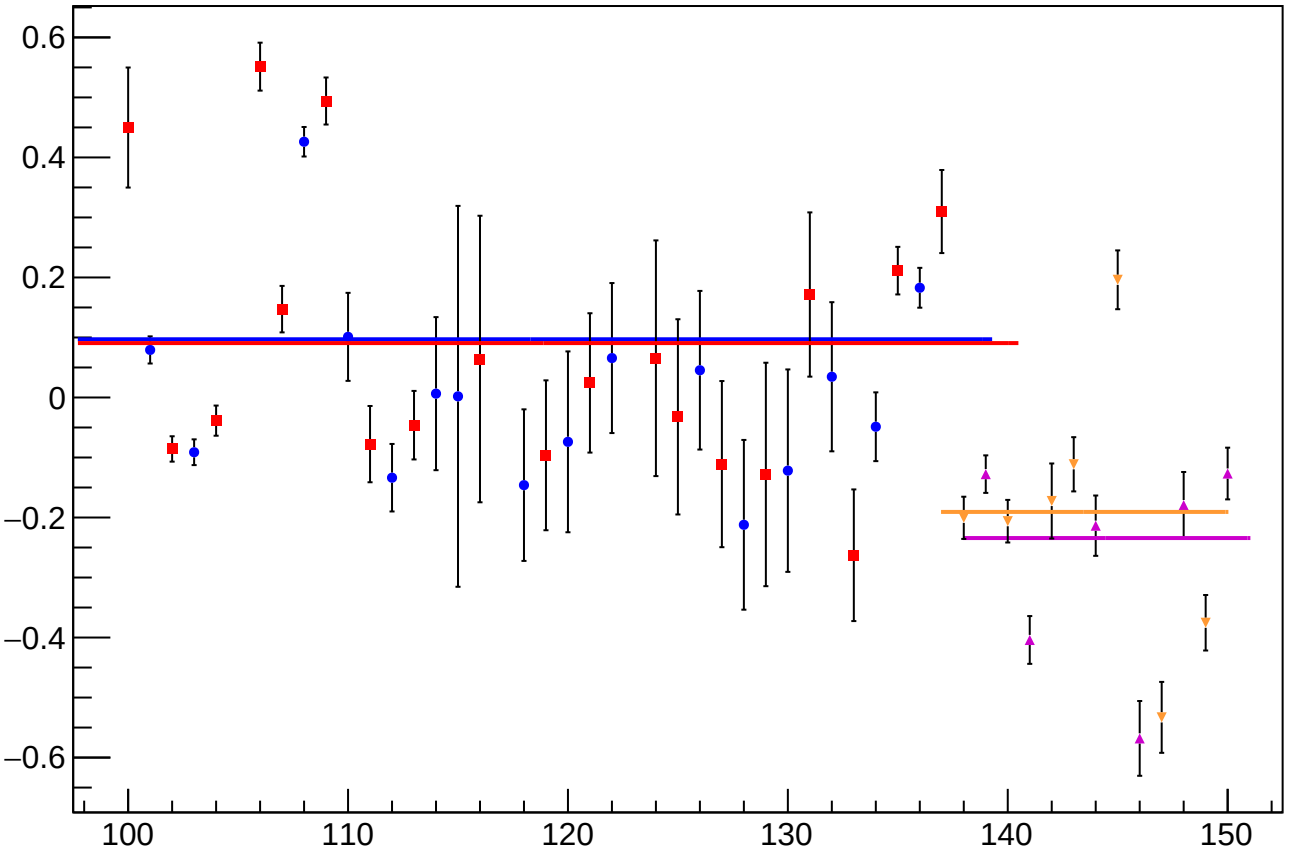
Left: 62.714+/-0.267 $\chi^2$/NDF: 2008.9/12

Right: 0.165+/-0.186 $\chi^2$/NDF: 37065.2/34

In: 18.437+/-0.219 $\chi^2$/NDF:39576.2/21

Out: 22.583+/-0.212 $\chi^2$/NDF:36365.9/25

All: 20.573+/-0.152 $\chi^2$/NDF: 76127.1/47




Right In: 0.097+/-0.011 $\chi^2$/NDF: 299.1/15

Left Out: -0.191+/-0.017 $\chi^2$/NDF:115.2/6

Right Out: 0.091+/-0.011 $\chi^2$/NDF: 399.5/18

Left In: -0.234+/-0.018 $\chi^2$/NDF:65.9/5

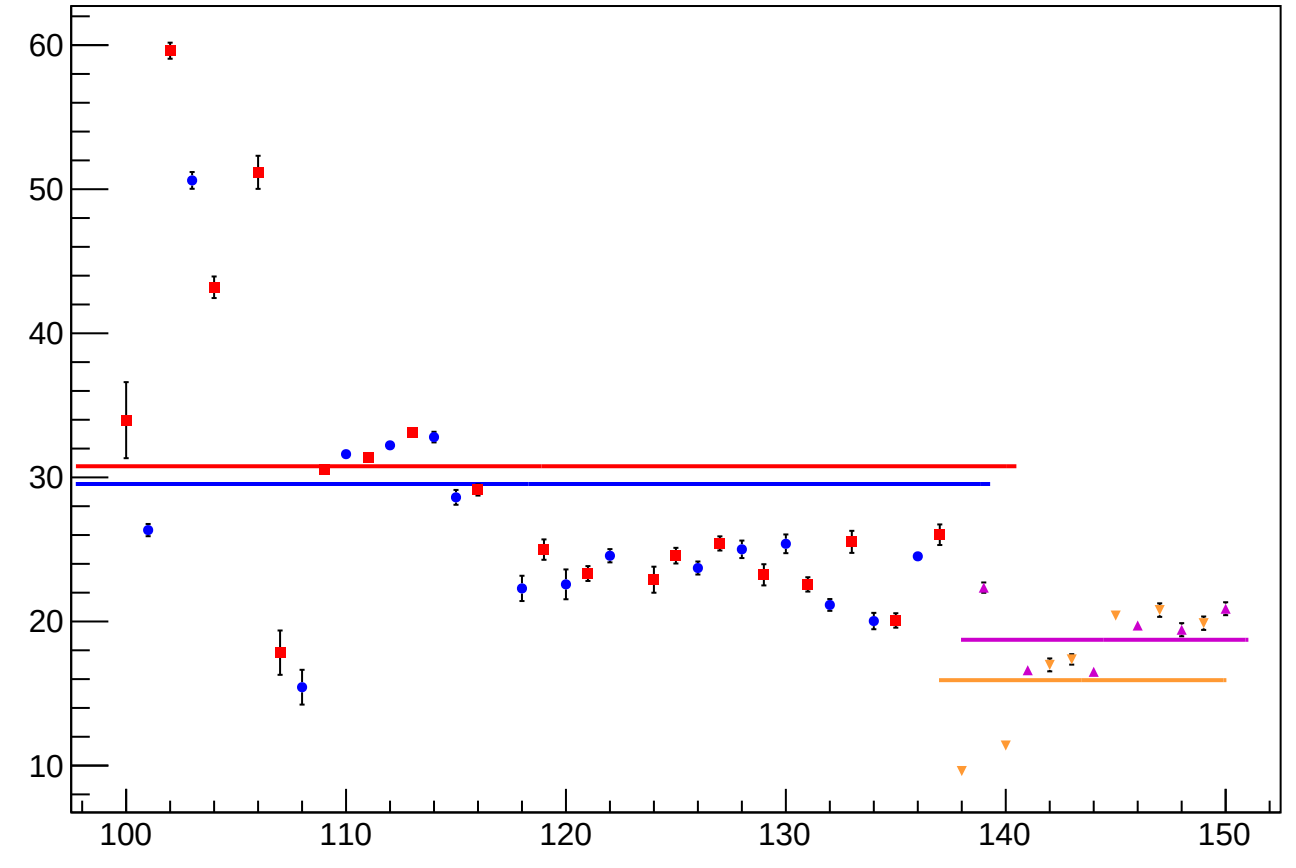
Left: -0.211+/-0.012 $\chi^2$/NDF: 184.3/12

Right: 0.094+/-0.008 $\chi^2$/NDF: 698.7/34

In: 0.002+/-0.009 $\chi^2$/NDF:613.9/21

Out: 0.002+/-0.009 $\chi^2$/NDF:705.9/25

All: 0.002+/-0.007 $\chi^2$/NDF: 1319.8/47




Right In: 29.542+/-0.092 $\chi^2$/NDF: 3372.2/15

Left Out: 15.927+/-0.132 $\chi^2$/NDF:1107.4/6

Right Out: 30.774+/-0.080 $\chi^2$/NDF: 5079.2/18

Left In: 18.730+/-0.143 $\chi^2$/NDF:246.4/5

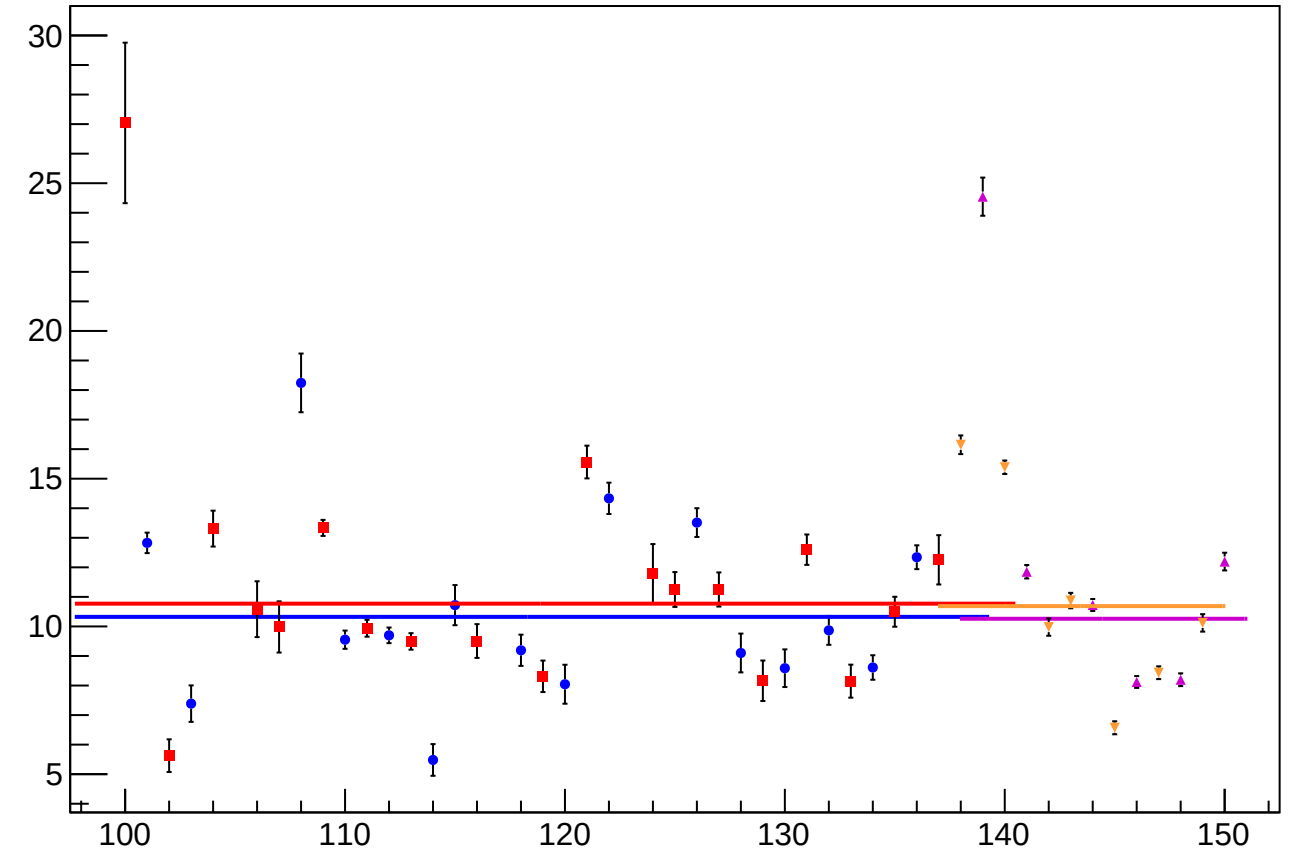
Left: 17.219+/-0.097 $\chi^2$/NDF: 1562.2/12

Right: 30.242+/-0.060 $\chi^2$/NDF: 8553.4/34

In: 26.366+/-0.077 $\chi^2$/NDF:7678.6/21

Out: 26.768+/-0.068 $\chi^2$/NDF:15444.3/25

All: 26.591+/-0.051 $\chi^2$/NDF: 23138.1/47




Right In: 10.324+/-0.114 $\chi^2$/NDF: 402.6/15

Left Out: 10.688+/-0.096 $\chi^2$/NDF:1190.0/6

Right Out: 10.771+/-0.113 $\chi^2$/NDF: 415.8/18

Left In: 10.259+/-0.098 $\chi^2$/NDF:790.7/5

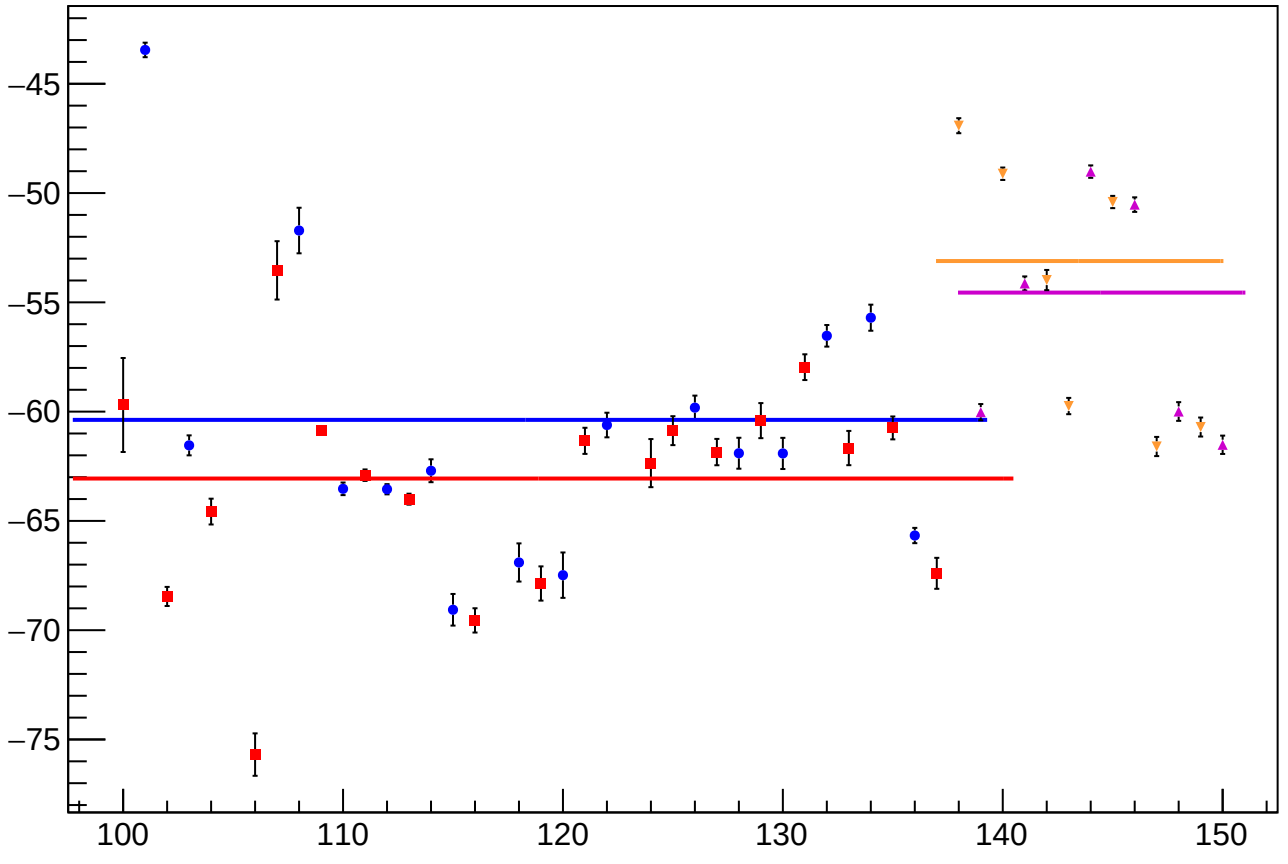
Left: 10.479+/-0.069 $\chi^2$/NDF: 1990.4/12

Right: 10.550+/-0.080 $\chi^2$/NDF: 826.2/34

In: 10.287+/-0.074 $\chi^2$/NDF:1193.5/21

Out: 10.722+/-0.073 $\chi^2$/NDF:1606.1/25

All: 10.509+/-0.052 $\chi^2$/NDF: 2817.0/47




Right In: -60.377+/-0.113 $\chi^2$/NDF: 3597.6/15

Left Out: -53.110+/-0.134 $\chi^2$/NDF:1612.6/6

Right Out: -63.061+/-0.107 $\chi^2$/NDF: 844.1/18

Left In: -54.554+/-0.142 $\chi^2$/NDF:1179.8/5

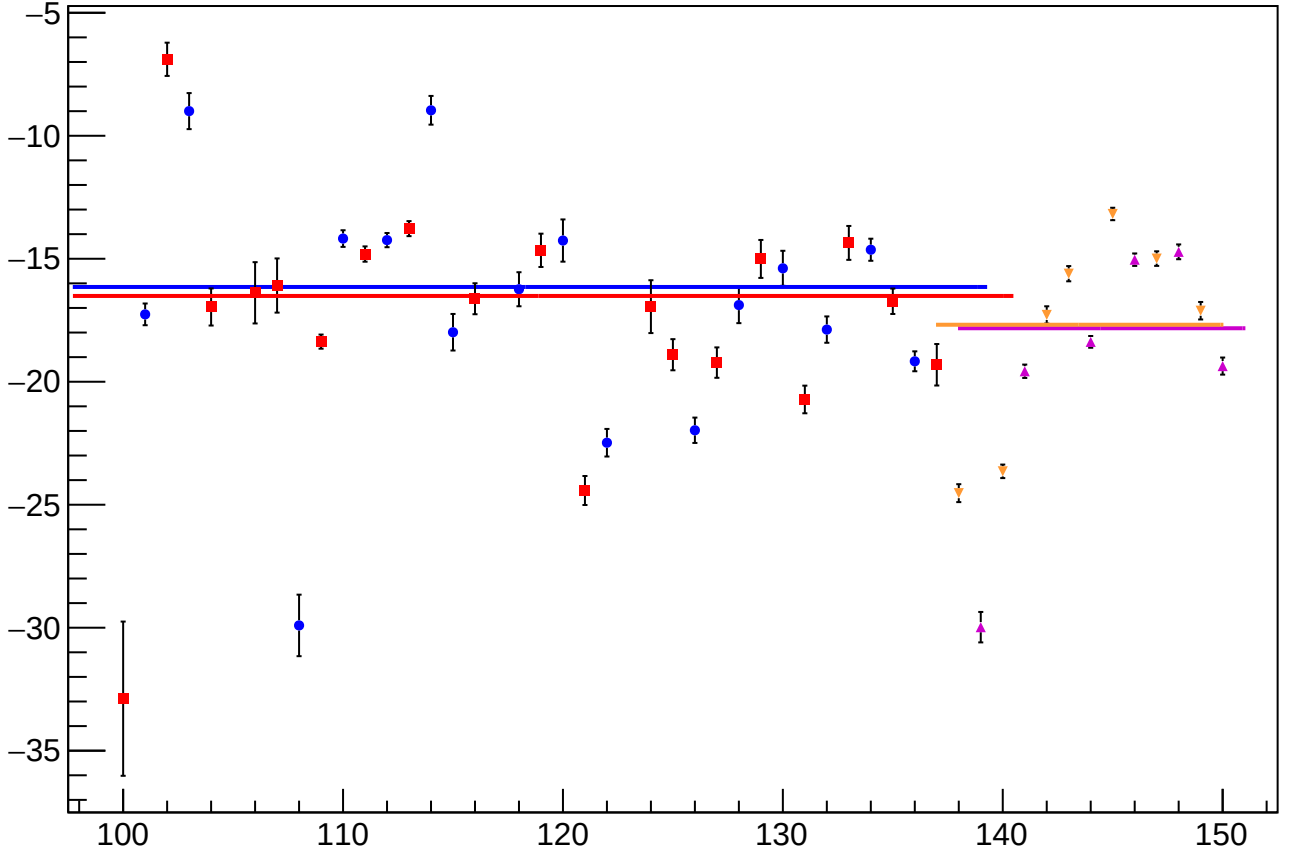
Left: -53.788+/-0.097 $\chi^2$/NDF: 2847.0/12

Right: -61.789+/-0.078 $\chi^2$/NDF: 4738.4/34

In: -58.125+/-0.088 $\chi^2$/NDF:5804.3/21

Out: -59.168+/-0.084 $\chi^2$/NDF:5824.3/25

All: -58.676+/-0.061 $\chi^2$/NDF: 11702.0/47




Right In: -16.147+/-0.127 $\chi^2$/NDF: 797.1/15

Left Out: -17.683+/-0.116 $\chi^2$/NDF:1271.5/6

Right Out: -16.512+/-0.125 $\chi^2$/NDF: 684.7/18

Left In: -17.826+/-0.121 $\chi^2$/NDF:679.2/5

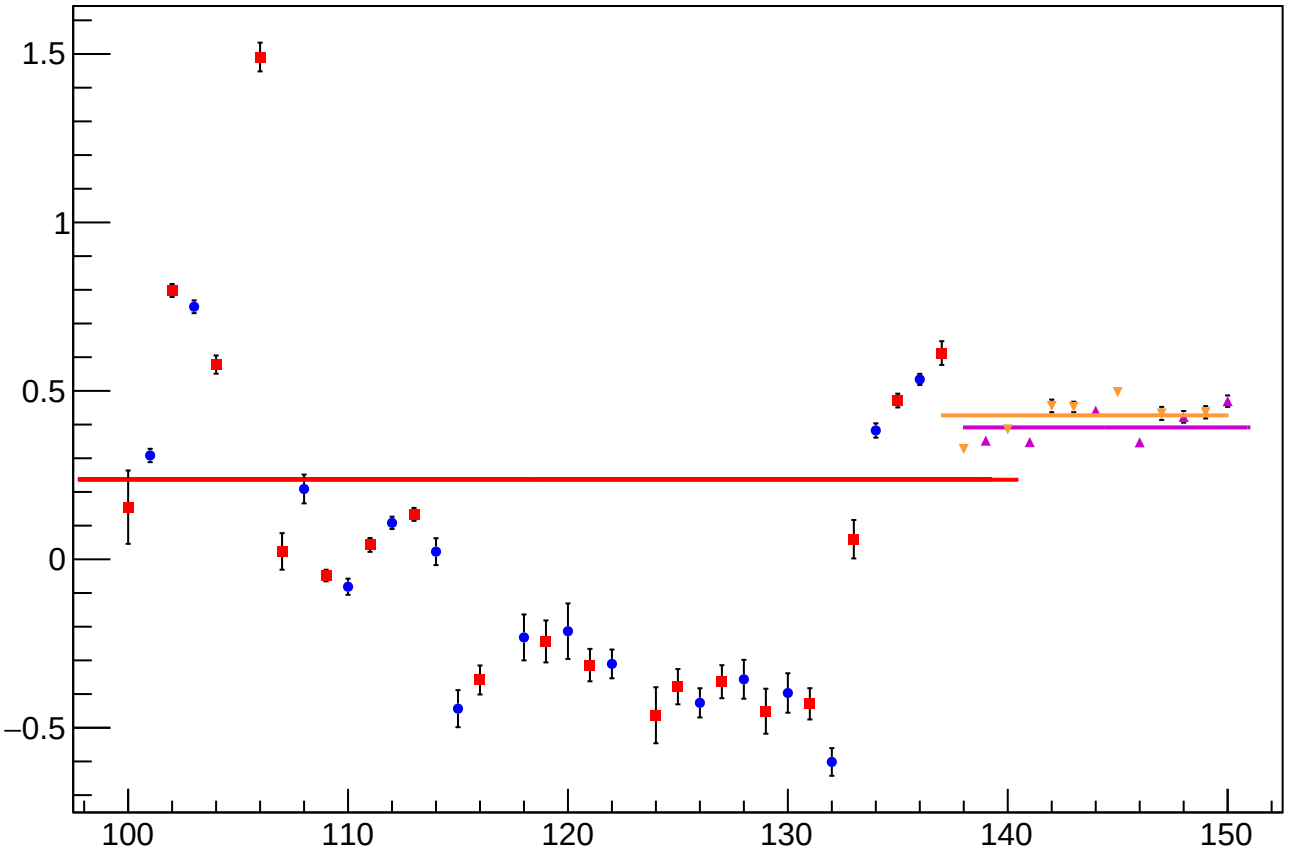
Left: -17.751+/-0.084 $\chi^2$/NDF: 1951.5/12

Right: -16.333+/-0.089 $\chi^2$/NDF: 1486.0/34

In: -17.030+/-0.088 $\chi^2$/NDF:1567.9/21

Out: -17.139+/-0.085 $\chi^2$/NDF:2003.4/25

All: -17.086+/-0.061 $\chi^2$/NDF: 3572.1/47




Right In: 0.238+/-0.007 $\chi^2$/NDF: 2632.9/15

Left Out: 0.427+/-0.006 $\chi^2$/NDF:106.0/6

Right Out: 0.236+/-0.007 $\chi^2$/NDF: 3595.0/18

Left In: 0.392+/-0.006 $\chi^2$/NDF:68.8/5

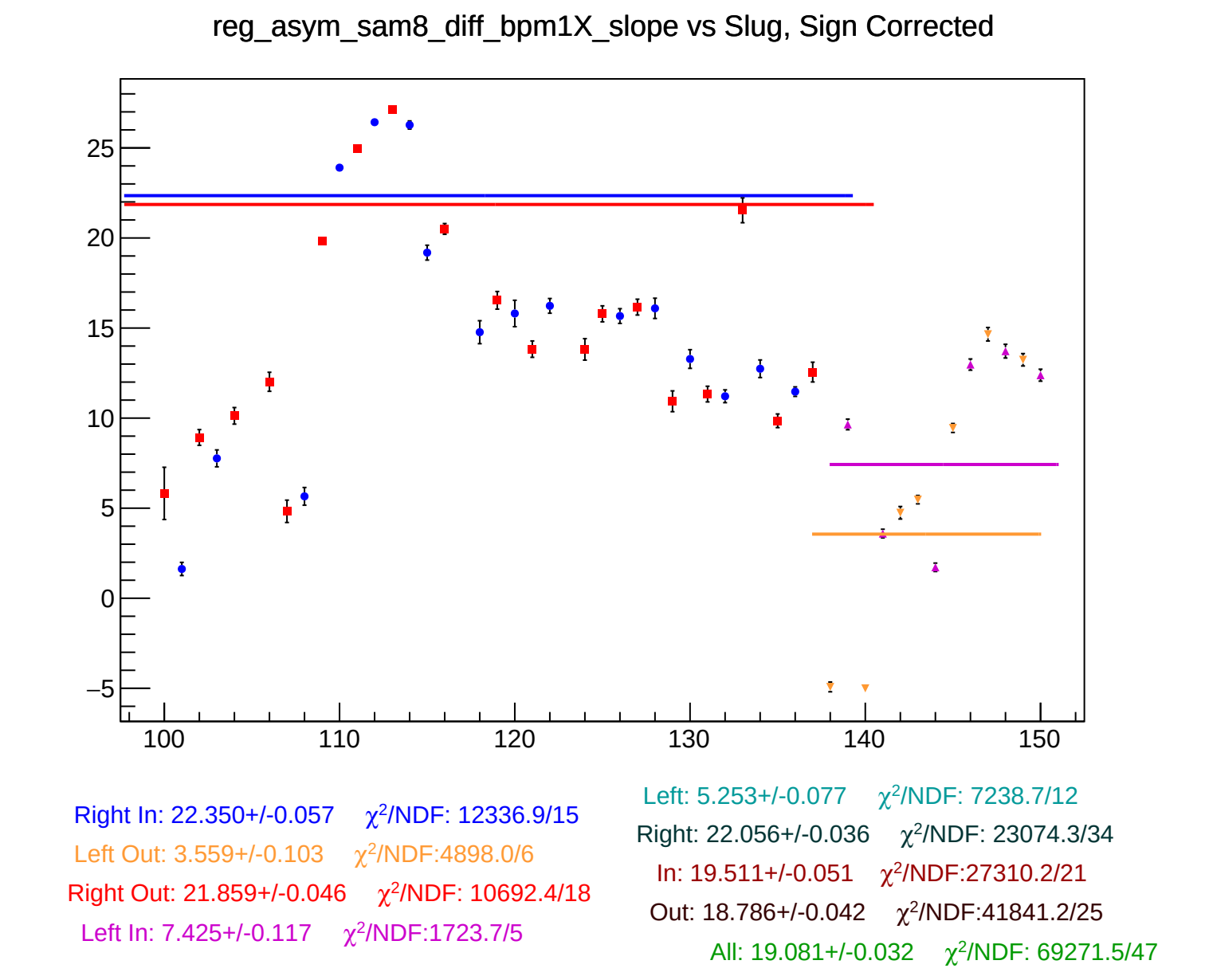
Left: 0.410+/-0.004 $\chi^2$/NDF: 194.5/12

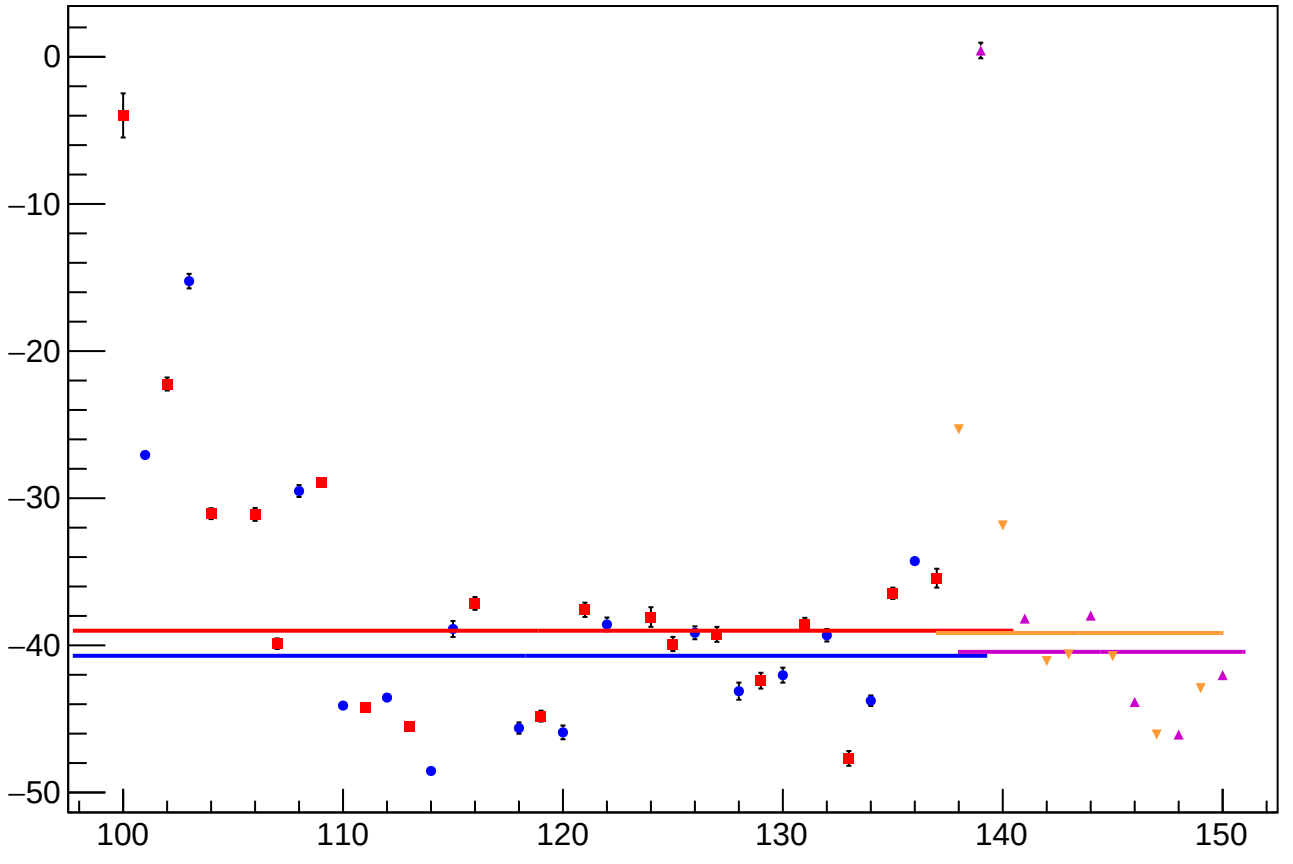
Right: 0.237+/-0.005 $\chi^2$/NDF: 6227.9/34

In: 0.329+/-0.005 $\chi^2$/NDF:2983.0/21

Out: 0.354+/-0.004 $\chi^2$/NDF:4149.6/25

All: 0.342+/-0.003 $\chi^2$/NDF: 7148.6/47


reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected
25
20
15
10
5
0
−5
100
110
120
130
140
150
Right In: 22.350+/-0.057 χ2/NDF: 12336.9/15
Left Out: 3.559+/-0.103 χ2/NDF:4898.0/6
Right Out: 21.859+/-0.046 χ2/NDF: 10692.4/18
Left In: 7.425+/-0.117 χ2/NDF:1723.7/5
Left: 5.253+/-0.077 χ2/NDF: 7238.7/12
Right: 22.056+/-0.036 χ2/NDF: 23074.3/34
In: 19.511+/-0.051 χ2/NDF:27310.2/21
Out: 18.786+/-0.042 χ2/NDF:41841.2/25
All: 19.081+/-0.032 χ2/NDF: 69271.5/47




Right In: -40.709+/-0.076 $\chi^2$/NDF: 7780.4/15

Left Out: -39.158+/-0.075 $\chi^2$/NDF:6594.4/6

Right Out: -39.005+/-0.071 $\chi^2$/NDF: 10101.3/18

Left In: -40.442+/-0.082 $\chi^2$/NDF:7650.1/5

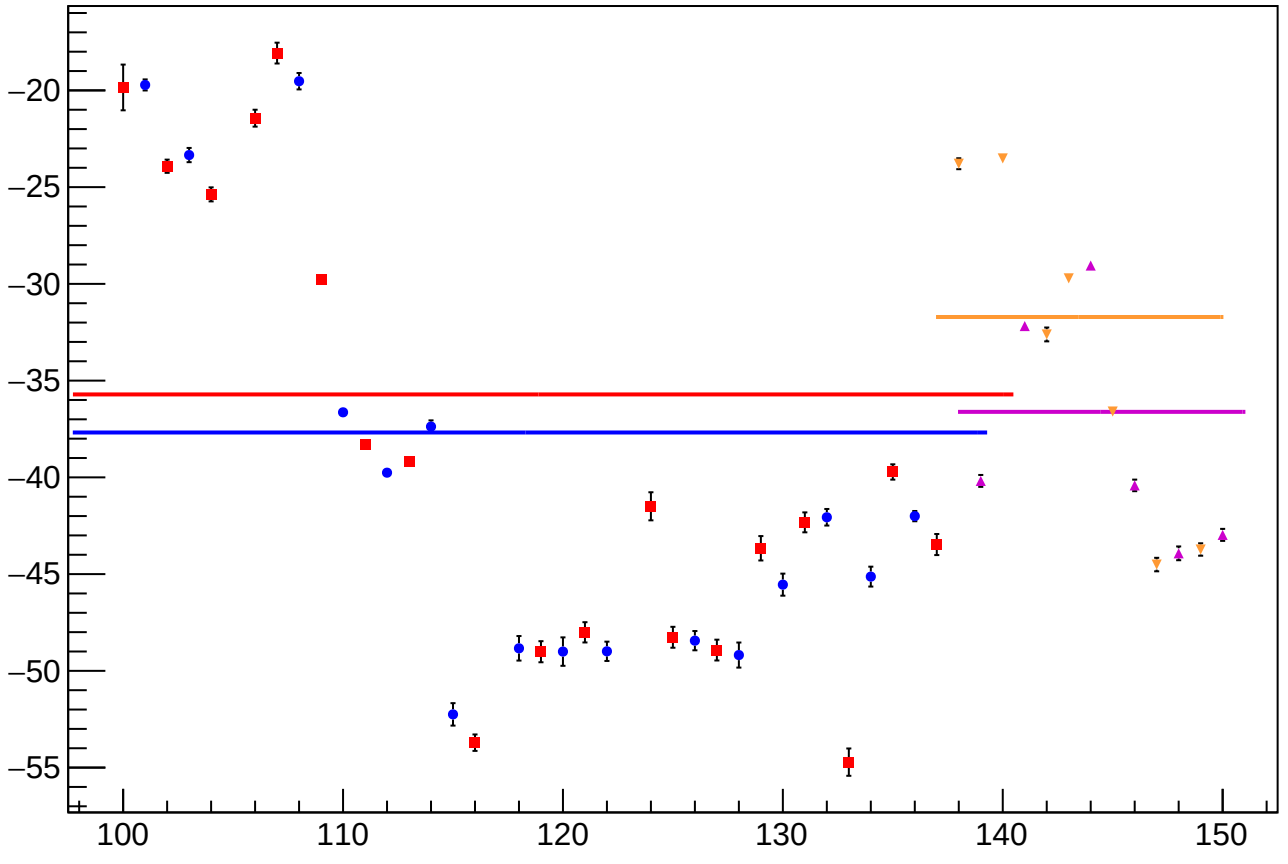
Left: -39.741+/-0.055 $\chi^2$/NDF: 14379.0/12

Right: -39.794+/-0.052 $\chi^2$/NDF: 18148.1/34

In: -40.584+/-0.056 $\chi^2$/NDF:15436.2/21

Out: -39.078+/-0.051 $\chi^2$/NDF:16698.0/25

All: -39.769+/-0.038 $\chi^2$/NDF: 32527.6/47




Right In: -37.681+/-0.074 $\chi^2$/NDF: 10853.9/15

Left Out: -31.712+/-0.104 $\chi^2$/NDF:5358.6/6

Right Out: -35.714+/-0.064 $\chi^2$/NDF: 13274.5/18

Left In: -36.614+/-0.116 $\chi^2$/NDF:2451.7/5

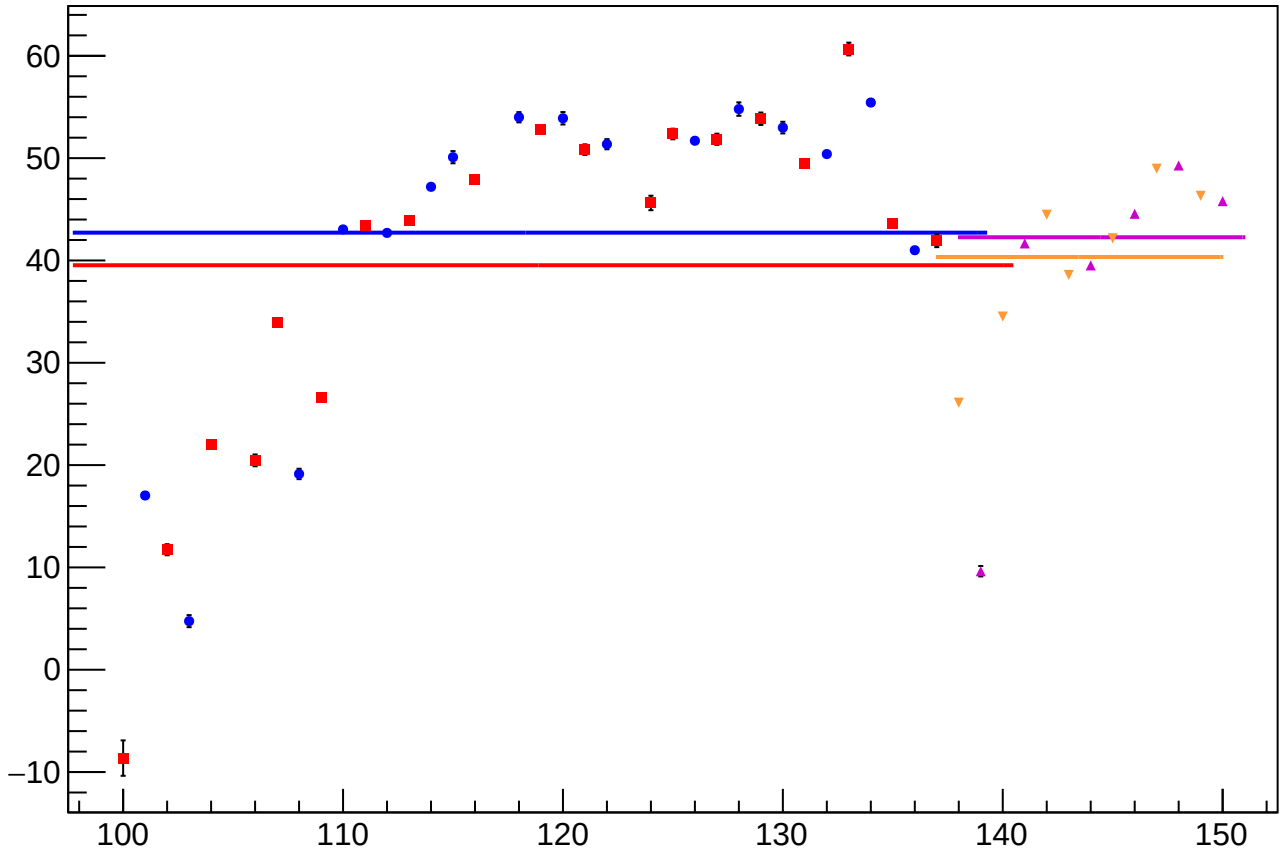
Left: -33.897+/-0.078 $\chi^2$/NDF: 8793.1/12

Right: -36.564+/-0.048 $\chi^2$/NDF: 24532.6/34

In: -37.375+/-0.062 $\chi^2$/NDF:13365.6/21

Out: -34.612+/-0.055 $\chi^2$/NDF:19698.2/25

All: -35.817+/-0.041 $\chi^2$/NDF: 34173.4/47




Right In: 42.718+/-0.085 $\chi^2$/NDF: 14765.0/15

Left Out: 40.339+/-0.090 $\chi^2$/NDF:5202.1/6

Right Out: 39.533+/-0.078 $\chi^2$/NDF: 17978.2/18

Left In: 42.268+/-0.100 $\chi^2$/NDF:5374.0/5

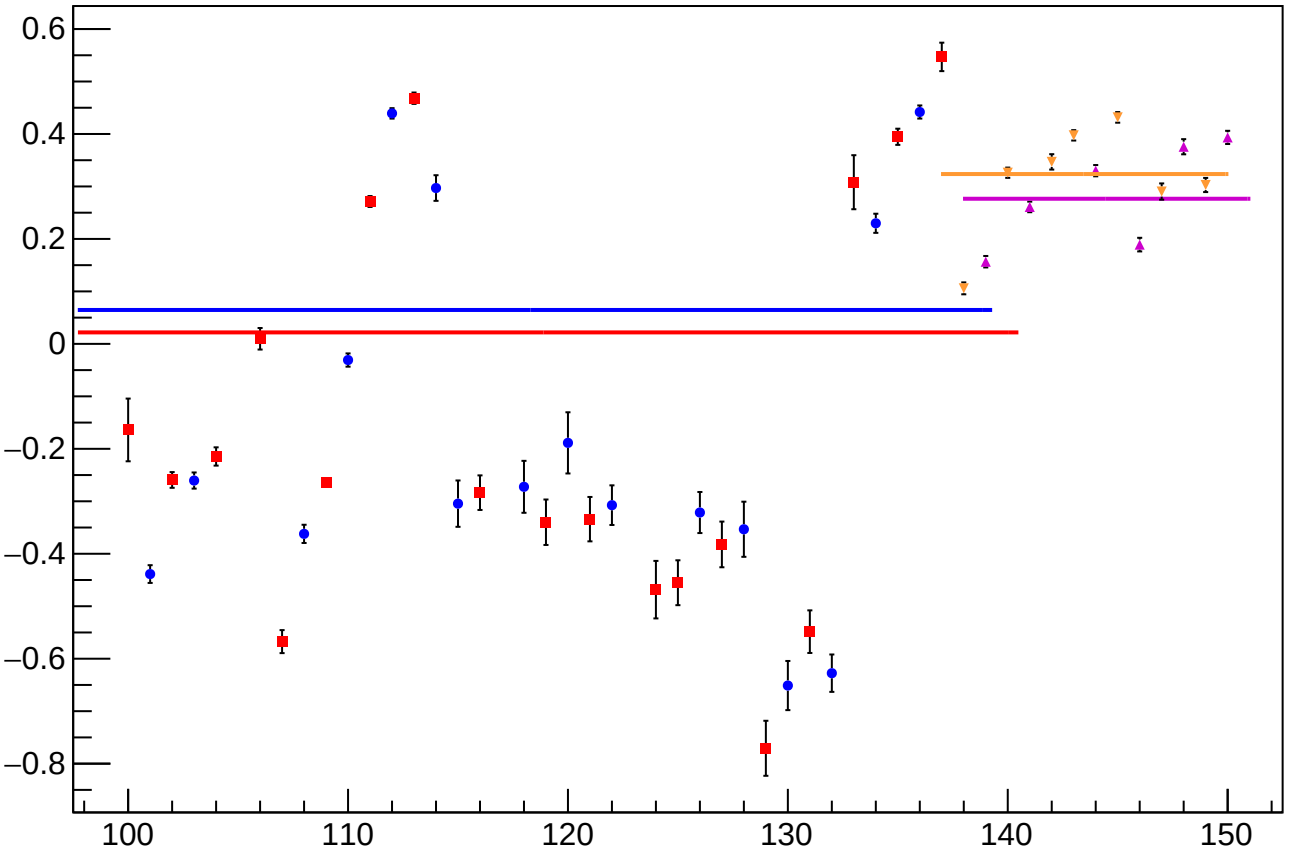
Left: 41.210+/-0.067 $\chi^2$/NDF: 10782.3/12

Right: 40.991+/-0.058 $\chi^2$/NDF: 33503.2/34

In: 42.528+/-0.065 $\chi^2$/NDF:20150.8/21

Out: 39.879+/-0.059 $\chi^2$/NDF:23225.9/25

All: 41.084+/-0.044 $\chi^2$/NDF: 44291.6/47




Right In: 0.065+/-0.005 $\chi^2$/NDF: 5497.5/15

Left Out: 0.324+/-0.004 $\chi^2$/NDF:545.9/6

Right Out: 0.022+/-0.004 $\chi^2$/NDF: 6405.3/18

Left In: 0.277+/-0.005 $\chi^2$/NDF:326.5/5

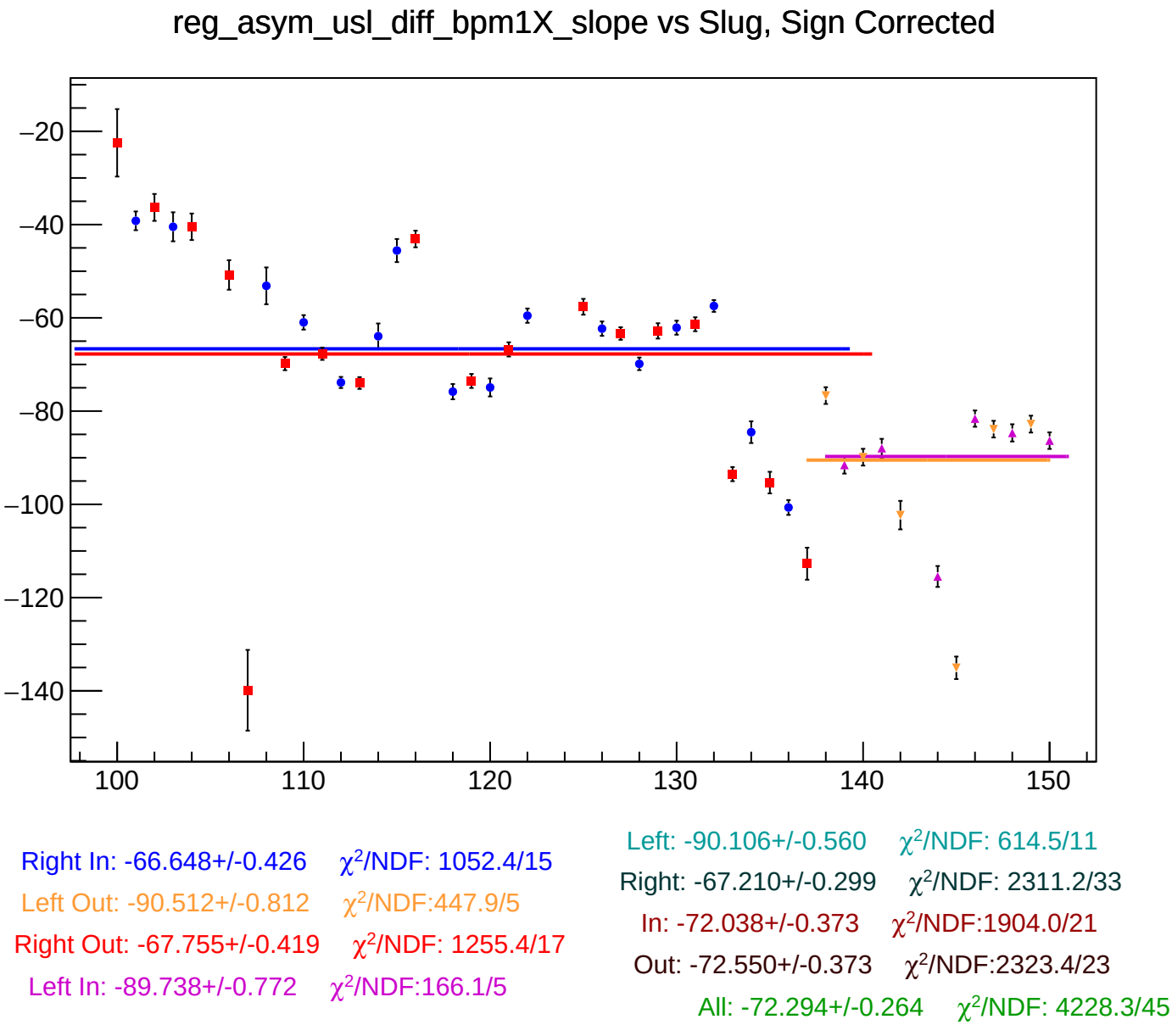
Left: 0.302+/-0.003 $\chi^2$/NDF: 925.4/12

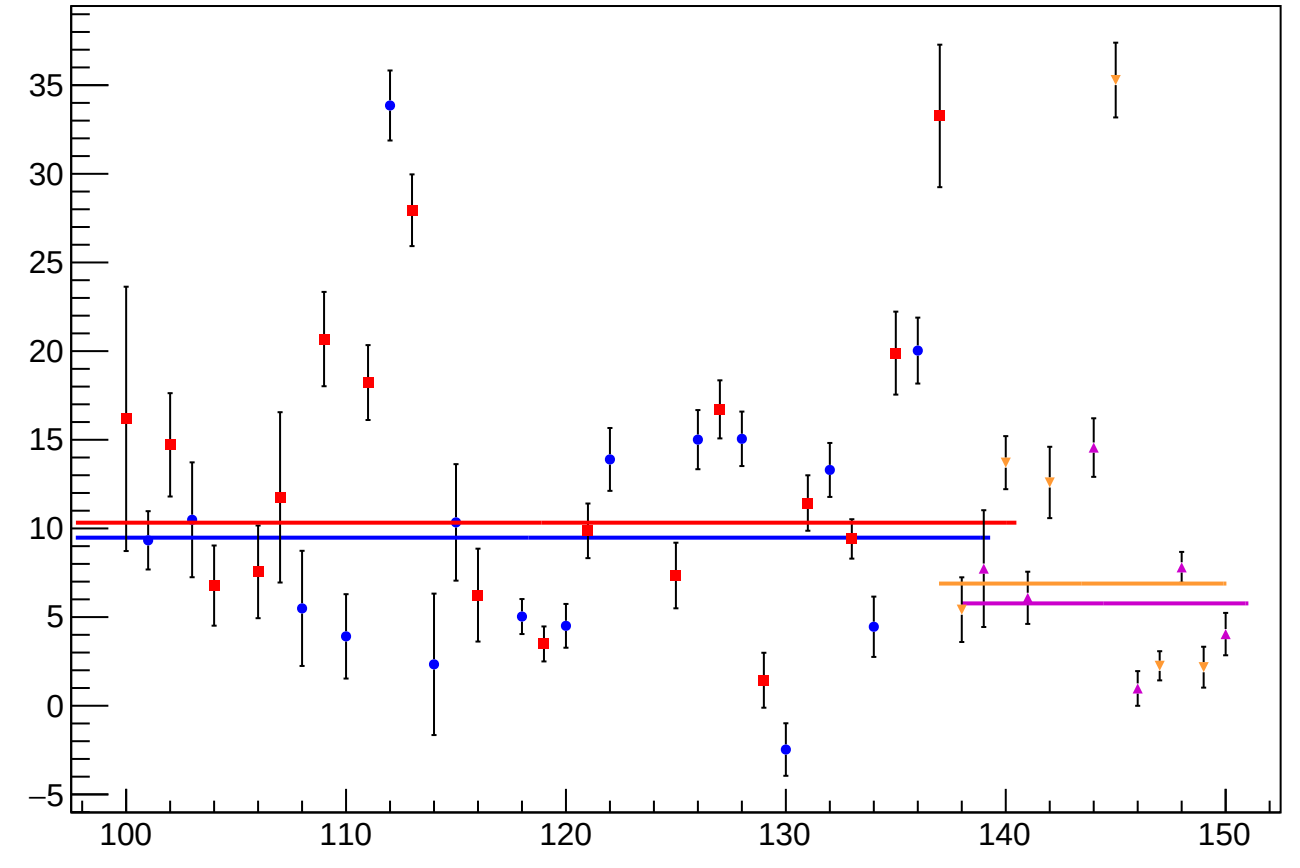
Right: 0.041+/-0.003 $\chi^2$/NDF: 11945.6/34

In: 0.172+/-0.003 $\chi^2$/NDF:6796.0/21

Out: 0.173+/-0.003 $\chi^2$/NDF:9328.4/25

All: 0.173+/-0.002 $\chi^2$/NDF: 16124.5/47


reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected
−20
−40
−60
−80
−100
−120
−140
100
110
120
130
140
150
Right In: -66.648+/-0.426 χ²/NDF: 1052.4/15
Left Out: -90.512+/-0.812 χ²/NDF:447.9/5
Right Out: -67.755+/-0.419 χ²/NDF: 1255.4/17
Left In: -89.738+/-0.772 χ²/NDF:166.1/5
Left: -90.106+/-0.560 χ²/NDF: 614.5/11
Right: -67.210+/-0.299 χ²/NDF: 2311.2/33
In: -72.038+/-0.373 χ²/NDF:1904.0/21
Out: -72.550+/-0.373 χ²/NDF:2323.4/23
All: -72.294+/-0.264 χ²/NDF: 4228.3/45




Right In: 9.480+/-0.428 $\chi^2$/NDF: 341.9/15

Left Out: 6.891+/-0.538 $\chi^2$/NDF:259.4/5

Right Out: 10.324+/-0.436 $\chi^2$/NDF: 263.4/17

Left In: 5.772+/-0.501 $\chi^2$/NDF:60.3/5

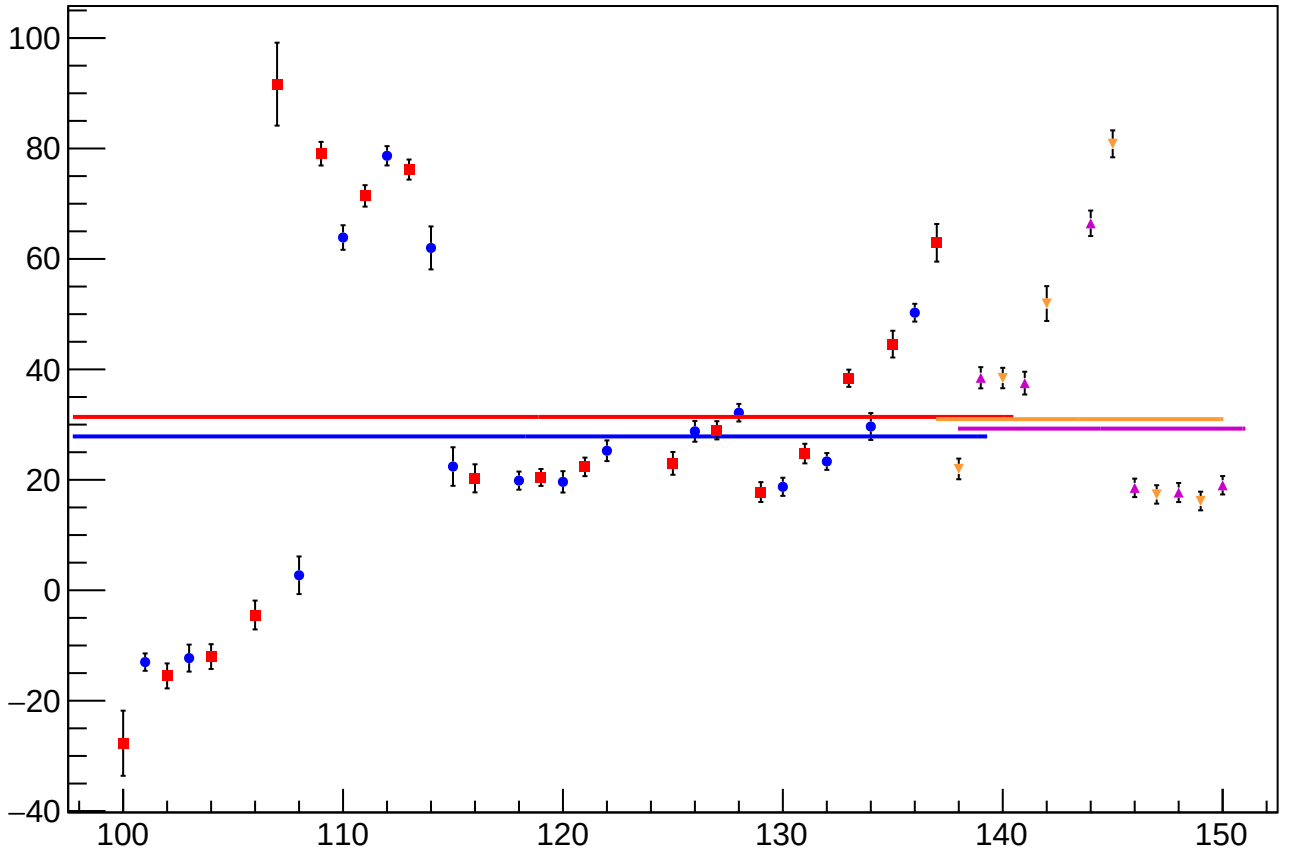
Left: 6.292+/-0.367 $\chi^2$/NDF: 322.0/11

Right: 9.895+/-0.305 $\chi^2$/NDF: 607.3/33

In: 7.916+/-0.326 $\chi^2$/NDF:433.9/21

Out: 8.966+/-0.339 $\chi^2$/NDF:547.4/23

All: 8.420+/-0.235 $\chi^2$/NDF: 986.3/45




Right In: 27.860+/-0.482 $\chi^2$/NDF: 2474.0/15

Left Out: 30.991+/-0.802 $\chi^2$/NDF:644.6/5

Right Out: 31.394+/-0.488 $\chi^2$/NDF: 3011.4/17

Left In: 29.272+/-0.757 $\chi^2$/NDF:422.2/5

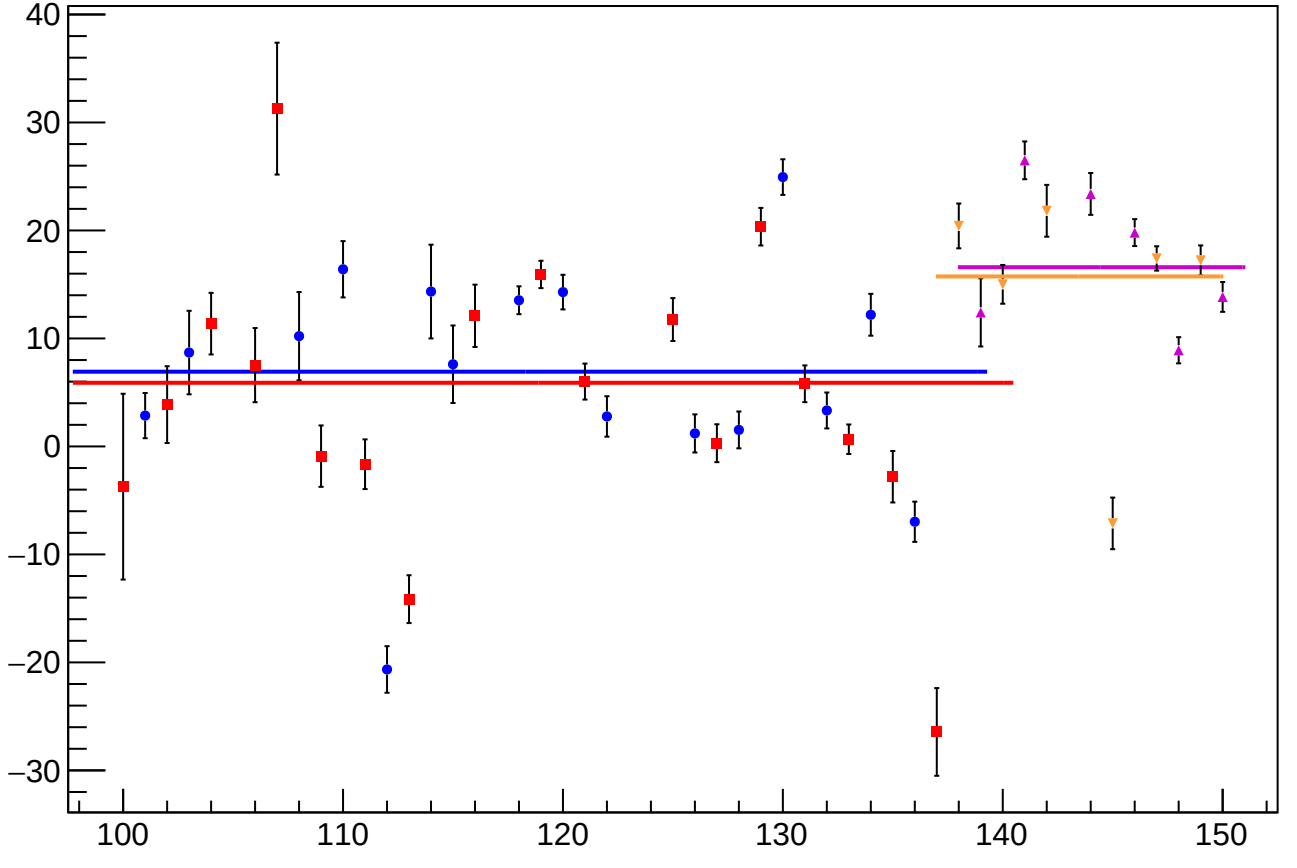
Left: 30.082+/-0.550 $\chi^2$/NDF: 1069.3/11

Right: 29.608+/-0.343 $\chi^2$/NDF: 5511.9/33

In: 28.268+/-0.407 $\chi^2$/NDF:2898.7/21

Out: 31.285+/-0.417 $\chi^2$/NDF:3656.2/23

All: 29.741+/-0.291 $\chi^2$/NDF: 6581.8/45




Right In: 6.922+/-0.496 $\chi^2$/NDF: 444.3/15

Left Out: 15.741+/-0.675 $\chi^2$/NDF:106.6/5

Right Out: 5.896+/-0.502 $\chi^2$/NDF: 367.7/17

Left In: 16.597+/-0.627 $\chi^2$/NDF:96.8/5

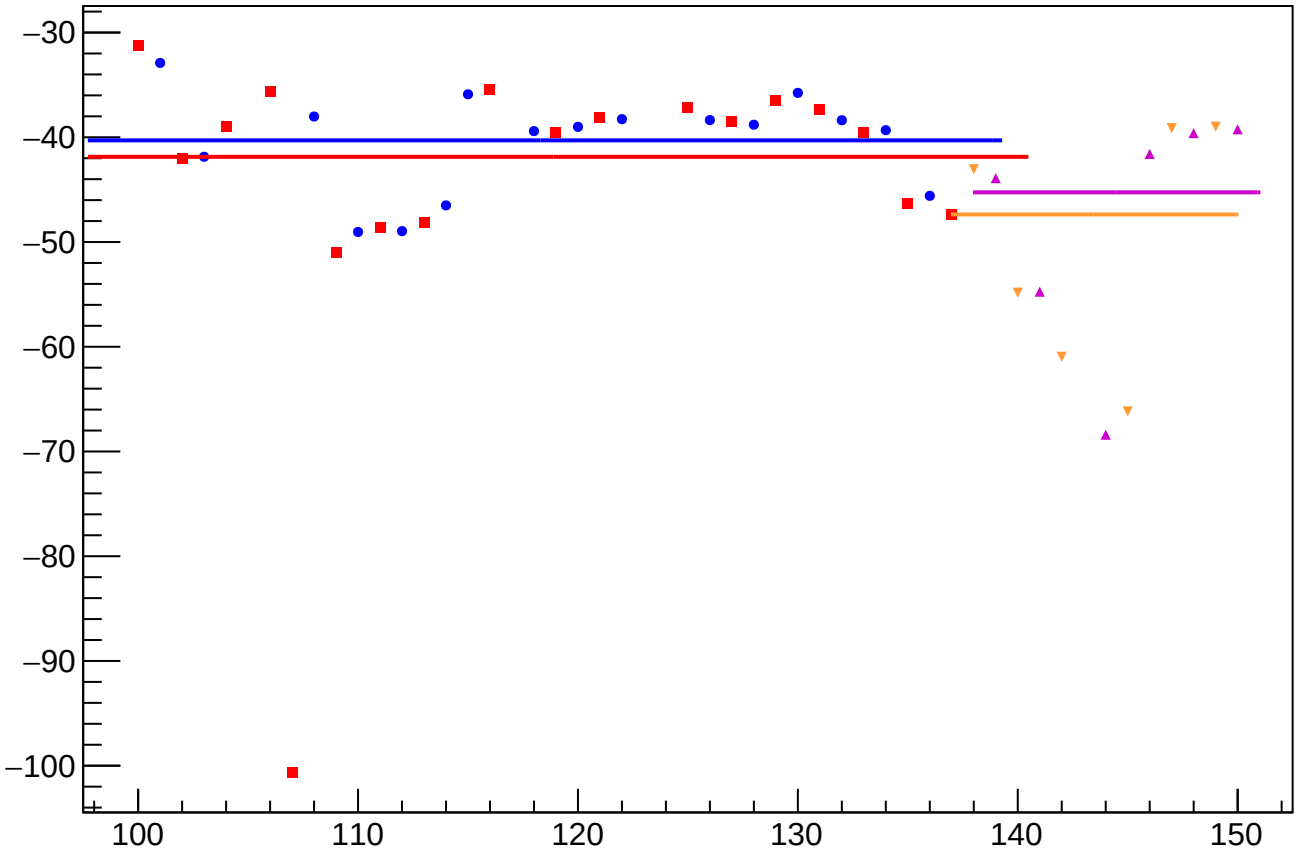
Left: 16.200+/-0.459 $\chi^2$/NDF: 204.3/11

Right: 6.415+/-0.353 $\chi^2$/NDF: 814.1/33

In: 10.639+/-0.389 $\chi^2$/NDF:687.6/21

Out: 9.403+/-0.403 $\chi^2$/NDF:611.4/23

All: 10.042+/-0.280 $\chi^2$/NDF: 1303.8/45




Right In: -40.293+/-0.031 $\chi^2$/NDF: 20663.5/15

Left Out: -47.368+/-0.034 $\chi^2$/NDF:87032.7/5

Right Out: -41.867+/-0.032 $\chi^2$/NDF: 58734.8/17

Left In: -45.258+/-0.031 $\chi^2$/NDF:79837.6/5

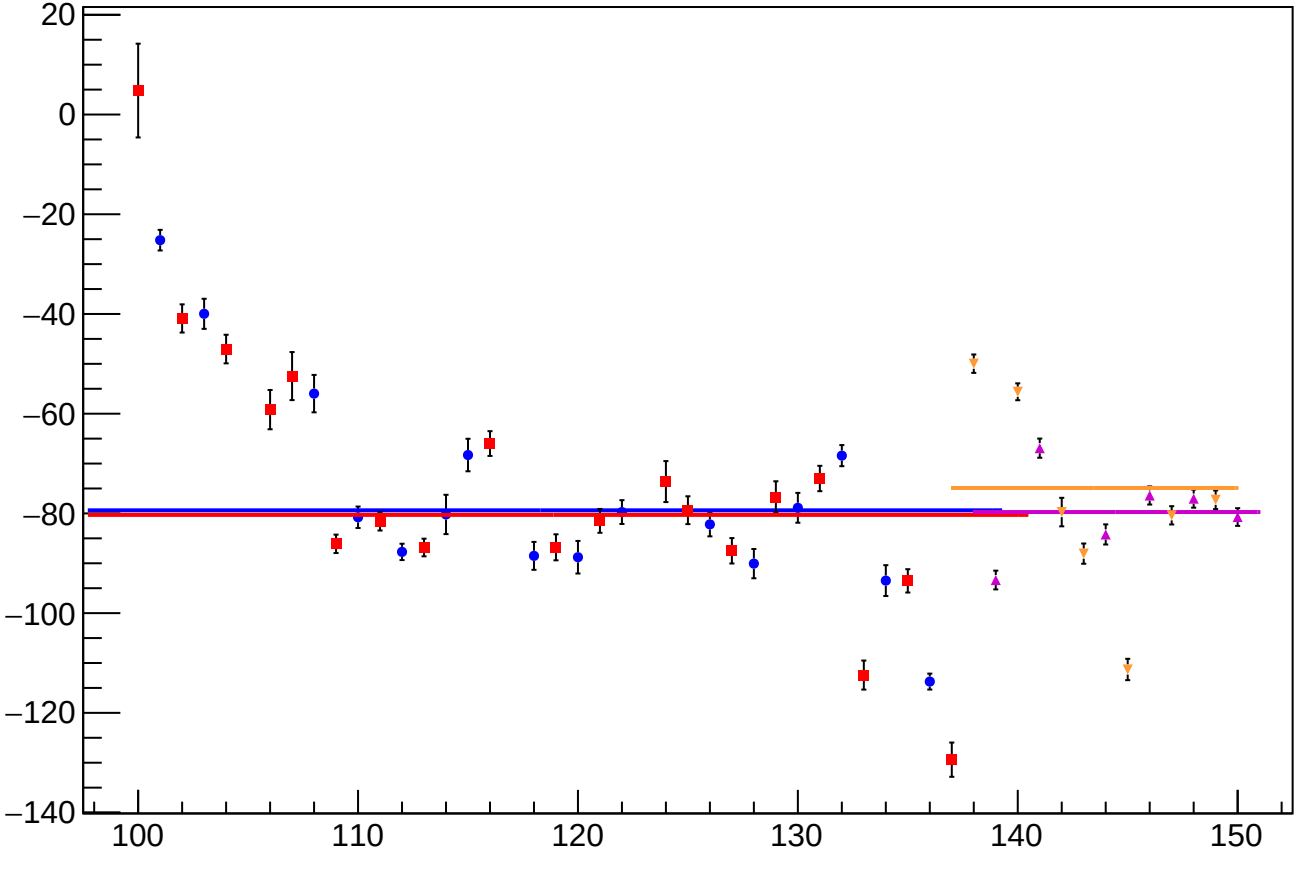
Left: -46.209+/-0.023 $\chi^2$/NDF: 169011.1/11

Right: -41.063+/-0.022 $\chi^2$/NDF: 80626.6/33

In: -42.837+/-0.022 $\chi^2$/NDF:113309.7/21

Out: -44.477+/-0.023 $\chi^2$/NDF:159694.2/23

All: -43.608+/-0.016 $\chi^2$/NDF: 275634.2/45




Right In: -79.382+/-0.611 $\chi^2$/NDF: 1475.9/15

Left Out: -74.898+/-0.743 $\chi^2$/NDF:657.1/6

Right Out: -80.294+/-0.604 $\chi^2$/NDF: 914.7/18

Left In: -79.721+/-0.762 $\chi^2$/NDF:107.8/5

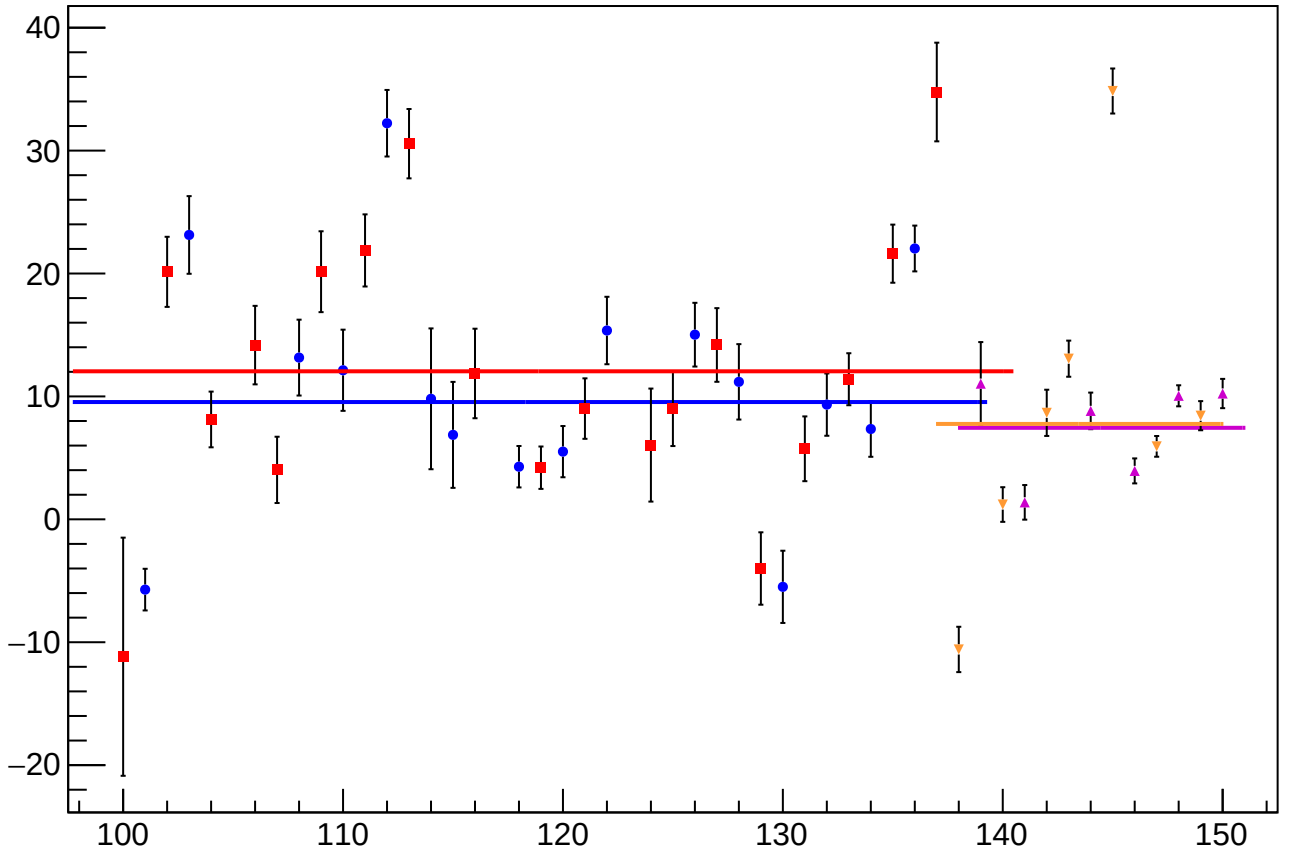
Left: -77.248+/-0.532 $\chi^2$/NDF: 785.4/12

Right: -79.844+/-0.430 $\chi^2$/NDF: 2391.7/34

In: -79.515+/-0.477 $\chi^2$/NDF:1583.8/21

Out: -78.147+/-0.469 $\chi^2$/NDF:1603.5/25

All: -78.819+/-0.334 $\chi^2$/NDF: 3191.5/47




Right In: 9.543+/-0.621 $\chi^2$/NDF: 267.1/15

Left Out: 7.761+/-0.503 $\chi^2$/NDF:357.5/6

Right Out: 12.044+/-0.637 $\chi^2$/NDF: 195.8/18

Left In: 7.446+/-0.495 $\chi^2$/NDF:47.2/5

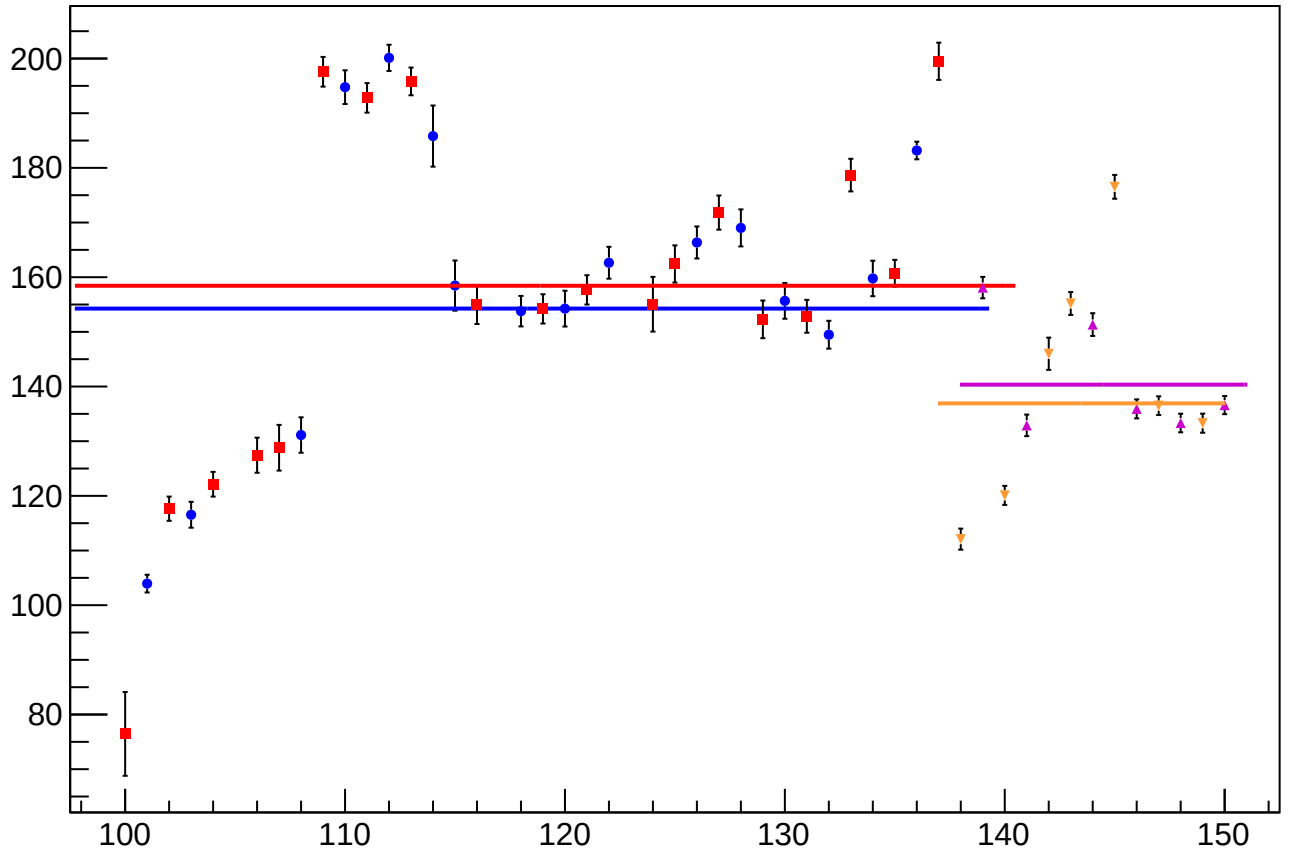
Left: 7.601+/-0.353 $\chi^2$/NDF: 404.9/12

Right: 10.762+/-0.445 $\chi^2$/NDF: 470.8/34

In: 8.260+/-0.387 $\chi^2$/NDF:321.2/21

Out: 9.405+/-0.395 $\chi^2$/NDF:581.2/25

All: 8.822+/-0.276 $\chi^2$/NDF: 906.7/47




Right In: 154.260+/-0.662 $\chi^2$/NDF: 2213.7/15

Left Out: 136.920+/-0.740 $\chi^2$/NDF:681.1/6

Right Out: 158.435+/-0.683 $\chi^2$/NDF: 1664.2/18

Left In: 140.345+/-0.748 $\chi^2$/NDF:153.0/5

Left: 138.614+/-0.526 $\chi^2$/NDF: 844.7/12

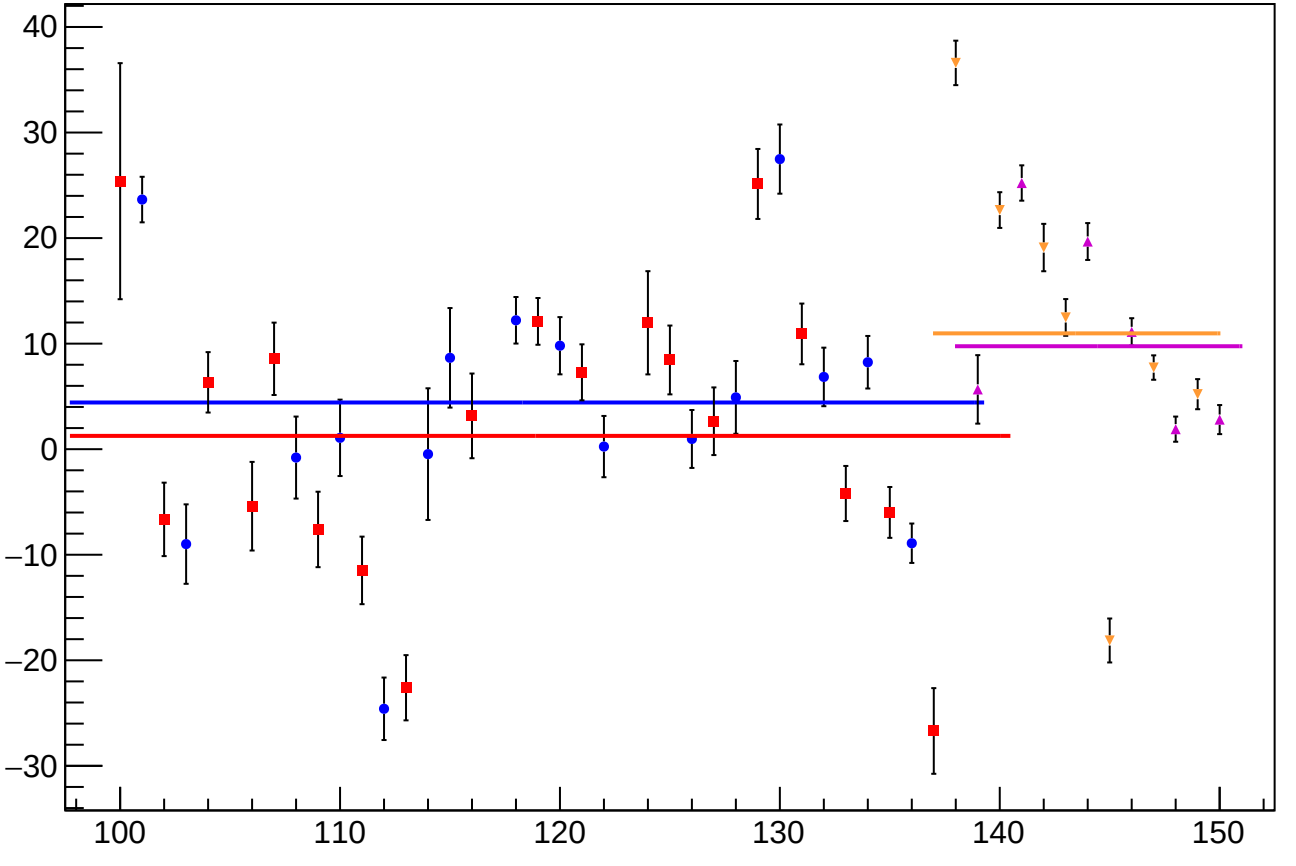
Right: 156.282+/-0.475 $\chi^2$/NDF: 3897.2/34

In: 148.148+/-0.496 $\chi^2$/NDF:2560.9/21

Out: 148.542+/-0.502 $\chi^2$/NDF:2802.2/25

All: 148.343+/-0.353 $\chi^2$/NDF: 5363.4/47

# reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 4.424+/-0.714 $\chi^2$/NDF: 316.1/15

Left Out: 10.973+/-0.623 $\chi^2$/NDF:428.9/6

Right Out: 1.260+/-0.732 $\chi^2$/NDF: 264.9/18

Left In: 9.754+/-0.619 $\chi^2$/NDF:189.2/5

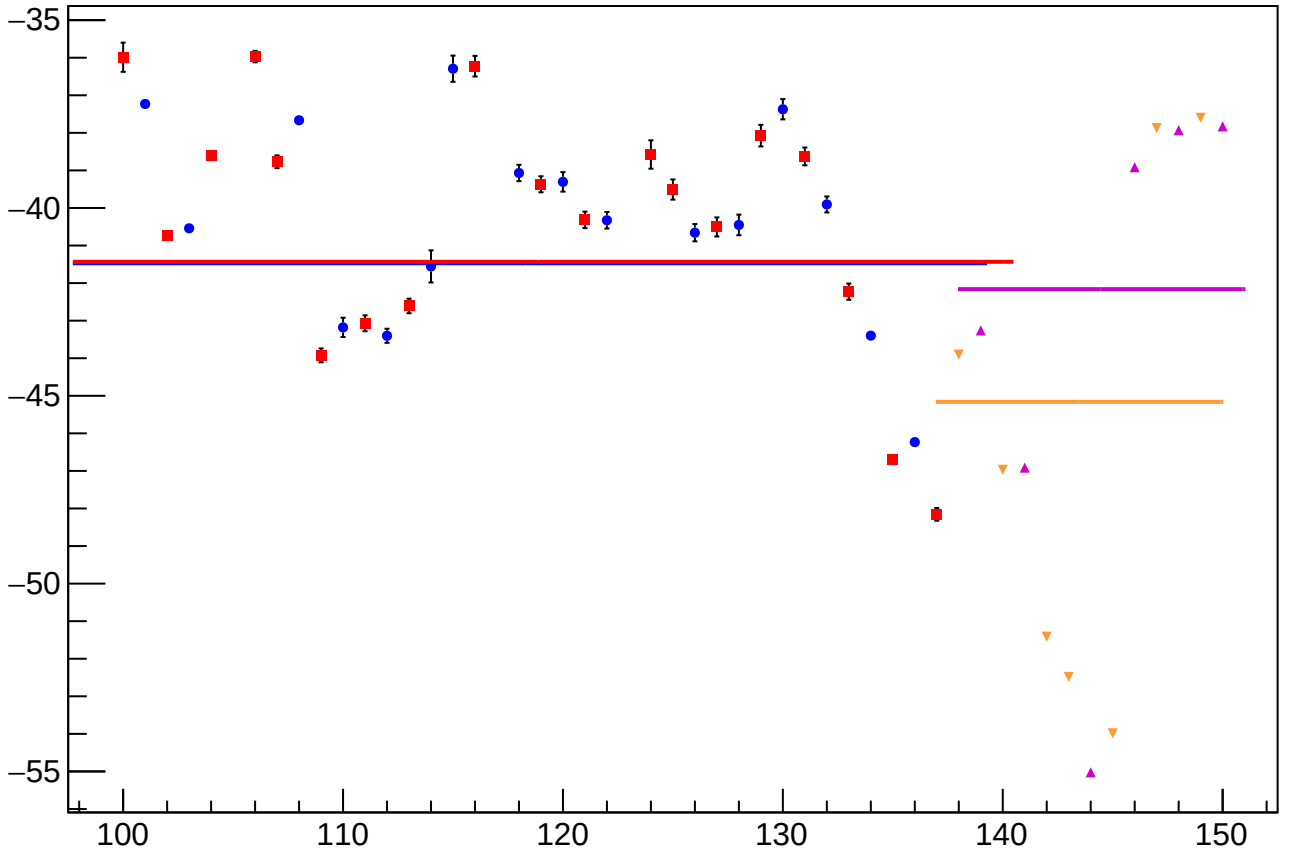
Left: 10.359+/-0.439 $\chi^2$/NDF: 620.1/12

Right: 2.881+/-0.511 $\chi^2$/NDF: 590.5/34

In: 7.465+/-0.468 $\chi^2$/NDF:537.1/21

Out: 6.888+/-0.474 $\chi^2$/NDF:795.9/25

All: 7.180+/-0.333 $\chi^2$/NDF: 1333.7/47




Right In: -41.472+/-0.038 $\chi^2$/NDF: 7912.0/15

Left Out: -45.161+/-0.031 $\chi^2$/NDF:40968.9/6

Right Out: -41.433+/-0.040 $\chi^2$/NDF: 8225.4/18

Left In: -42.161+/-0.030 $\chi^2$/NDF:32596.2/5

Left: -43.623+/-0.022 $\chi^2$/NDF: 78320.1/12

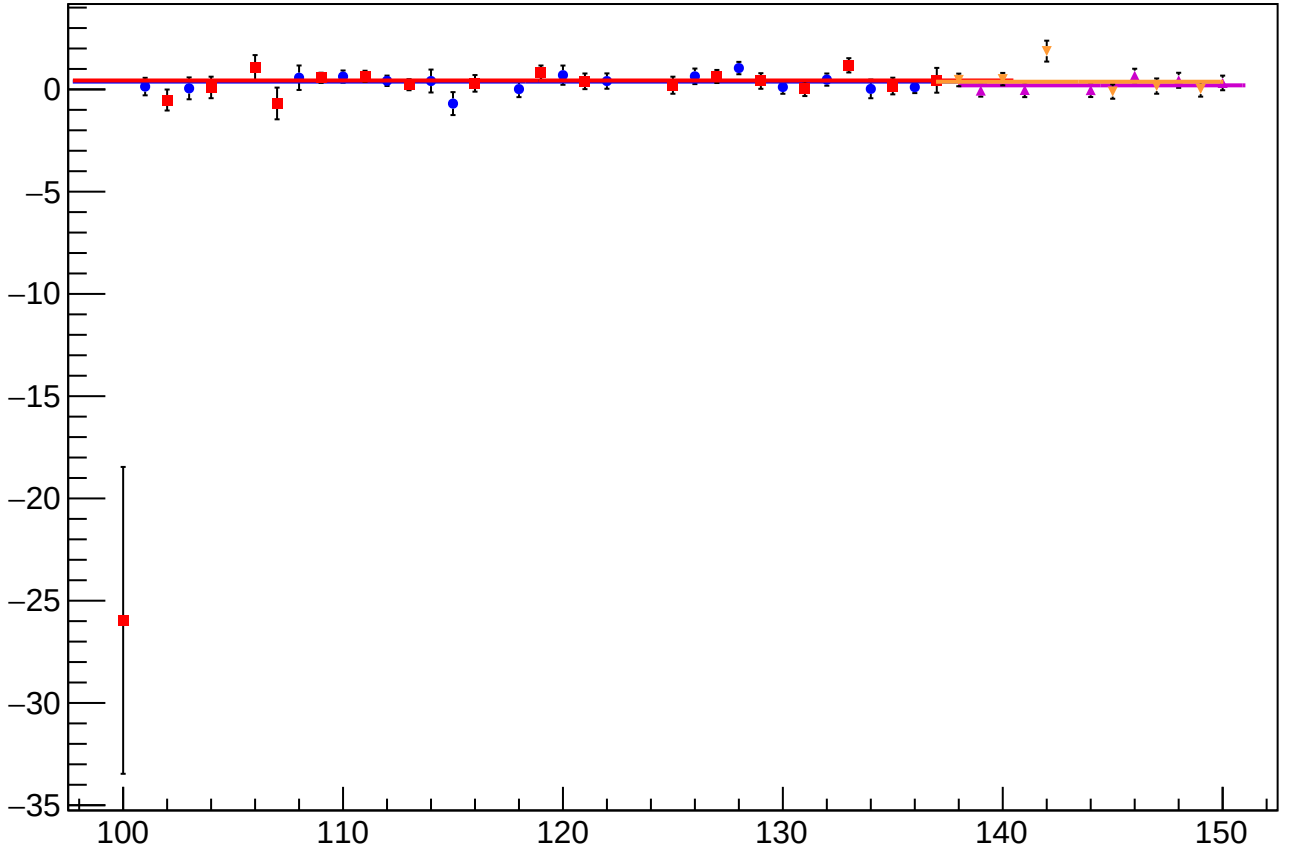
Right: -41.453+/-0.027 $\chi^2$/NDF: 16137.9/34

In: -41.894+/-0.024 $\chi^2$/NDF:40708.5/21

Out: -43.732+/-0.024 $\chi^2$/NDF:54684.2/25

All: -42.786+/-0.017 $\chi^2$/NDF: 98300.5/47

# reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 0.382+/-0.092 $\chi^2$/NDF: 14.0/15

Left Out: 0.375+/-0.145 $\chi^2$/NDF:11.9/5

Right Out: 0.436+/-0.090 $\chi^2$/NDF: 29.0/17

Left In: 0.199+/-0.139 $\chi^2$/NDF:4.1/5

Left: 0.283+/-0.100 $\chi^2$/NDF: 16.8/11

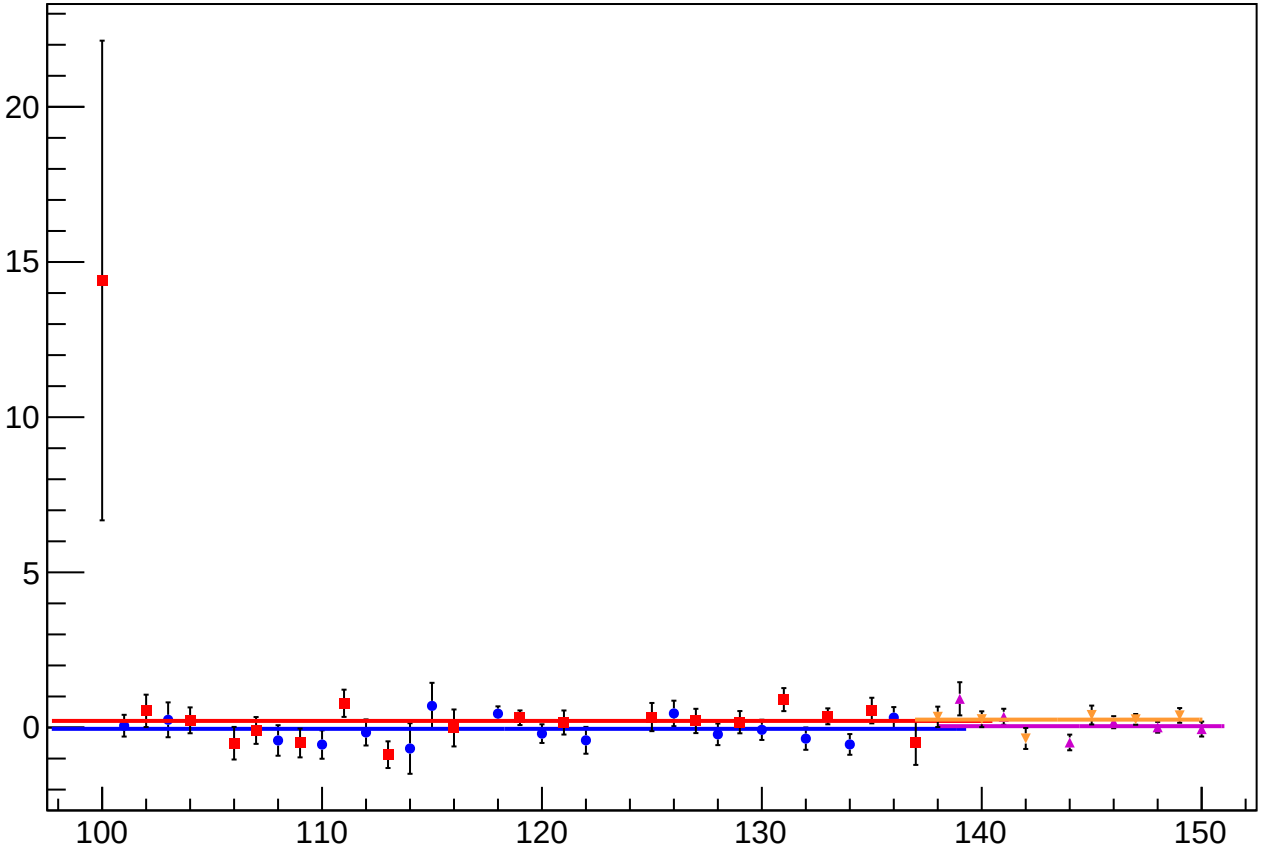
Right: 0.410+/-0.064 $\chi^2$/NDF: 43.2/33

In: 0.326+/-0.077 $\chi^2$/NDF:19.3/21

Out: 0.419+/-0.077 $\chi^2$/NDF:41.1/23

All: 0.373+/-0.054 $\chi^2$/NDF: 61.1/45

# reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.043+/-0.094 $\chi^2$/NDF: 15.0/15

Left Out: 0.255+/-0.102 $\chi^2$/NDF:3.9/5

Right Out: 0.213+/-0.095 $\chi^2$/NDF: 22.4/17

Left In: 0.043+/-0.095 $\chi^2$/NDF:9.0/5

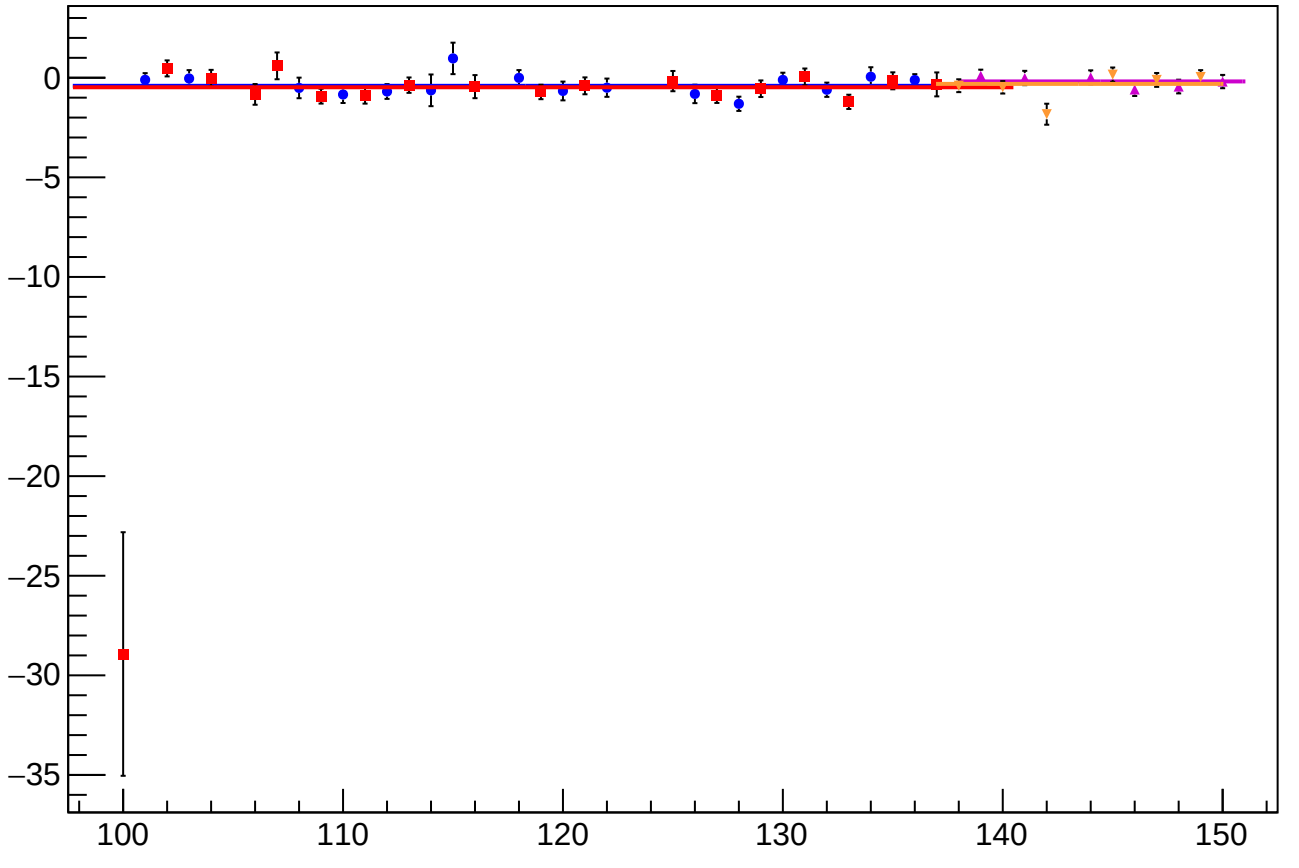
Left: 0.141+/-0.070 $\chi^2$/NDF: 15.2/11

Right: 0.084+/-0.067 $\chi^2$/NDF: 41.1/33

In: 0.000+/-0.067 $\chi^2$/NDF:24.5/21

Out: 0.232+/-0.070 $\chi^2$/NDF:26.4/23

All: 0.112+/-0.048 $\chi^2$/NDF: 56.7/45




Right In: -0.406+/-0.103 $\chi^2$/NDF: 17.8/15

Left Out: -0.309+/-0.145 $\chi^2$/NDF:11.7/5

Right Out: -0.478+/-0.104 $\chi^2$/NDF: 42.3/17

Left In: -0.185+/-0.137 $\chi^2$/NDF:3.5/5

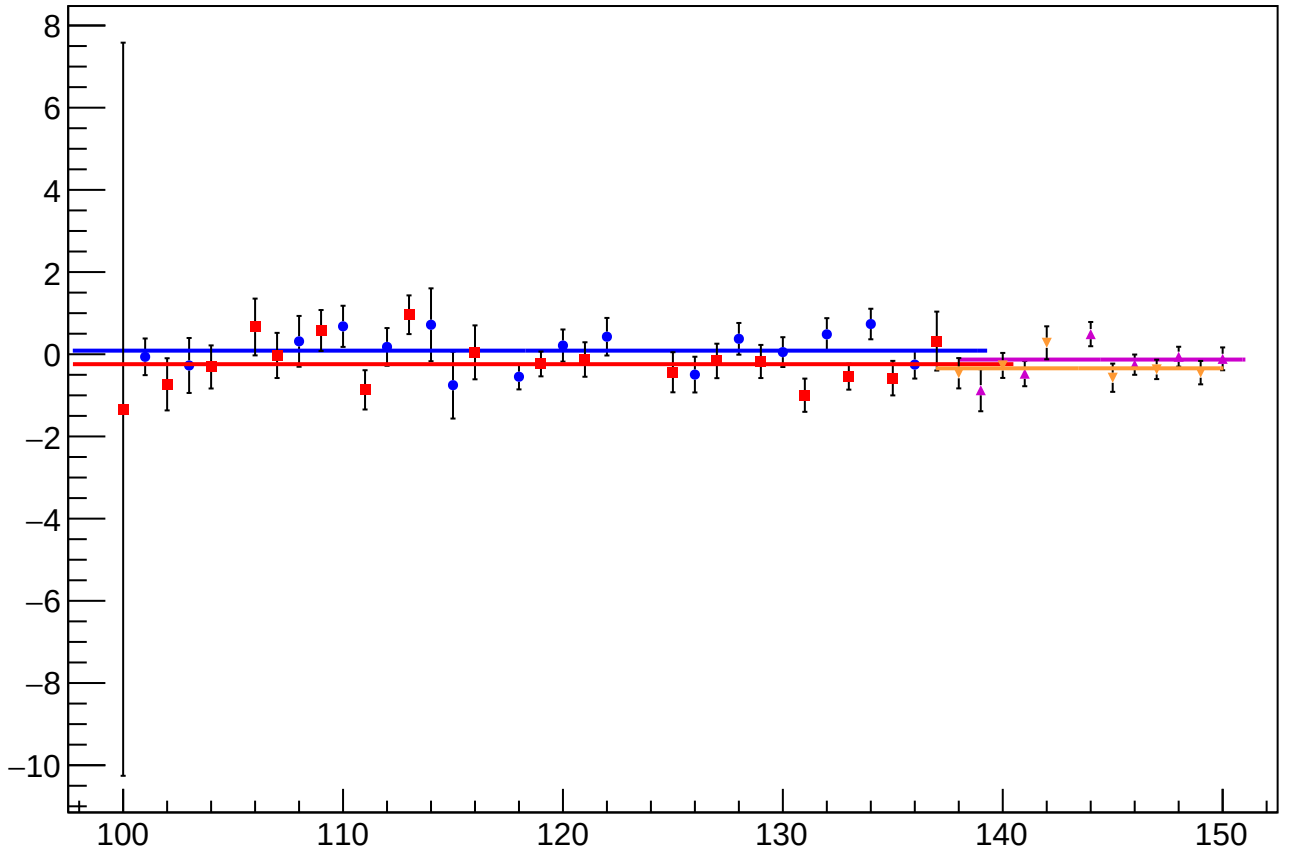
Left: -0.244+/-0.100 $\chi^2$/NDF: 15.6/11

Right: -0.441+/-0.073 $\chi^2$/NDF: 60.3/33

In: -0.326+/-0.082 $\chi^2$/NDF:22.9/21

Out: -0.420+/-0.085 $\chi^2$/NDF:54.8/23

All: -0.372+/-0.059 $\chi^2$/NDF: 78.4/45




Right In: 0.088+/-0.108 $\chi^2$/NDF: 15.9/15

Left Out: -0.342+/-0.126 $\chi^2$/NDF:3.1/5

Right Out: -0.241+/-0.110 $\chi^2$/NDF: 19.6/17

Left In: -0.129+/-0.118 $\chi^2$/NDF:8.1/5

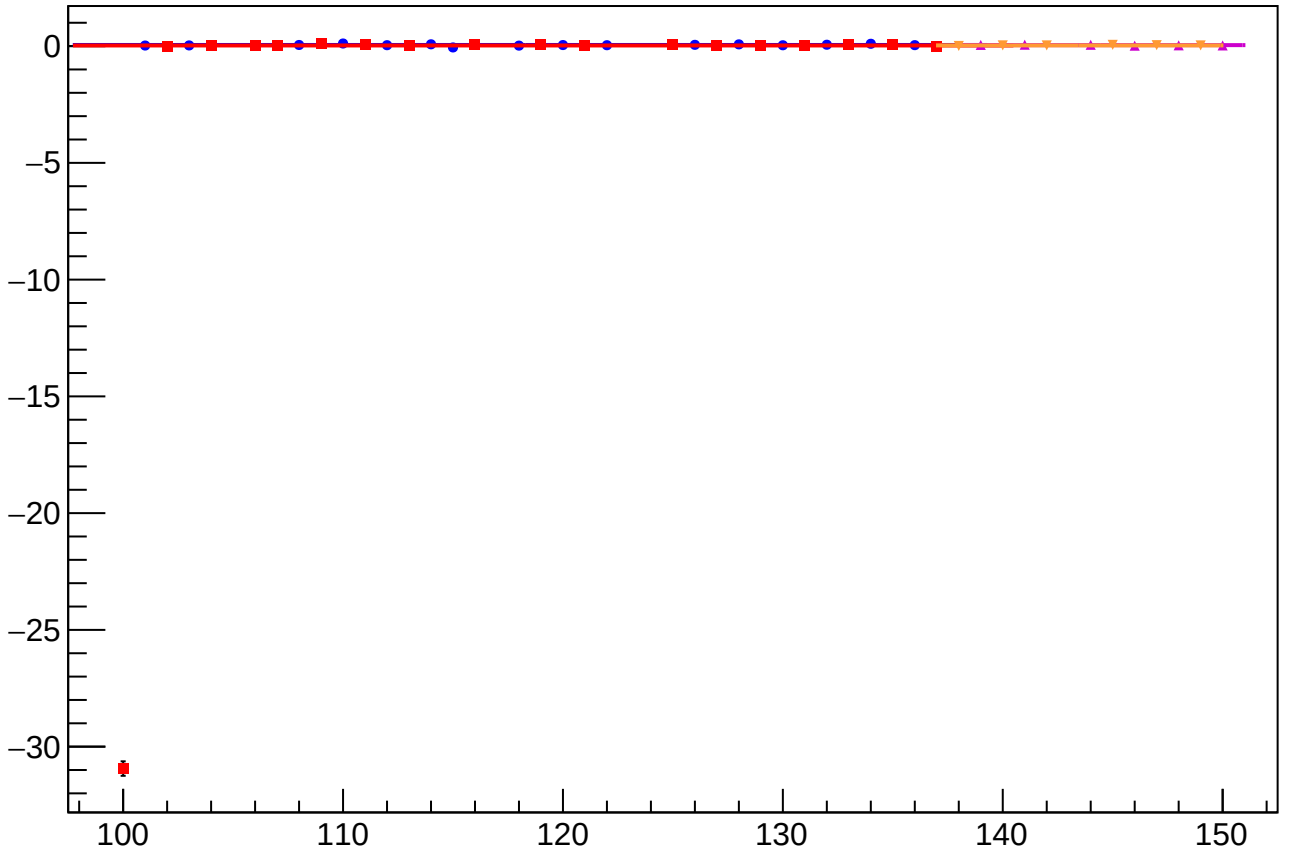
Left: -0.228+/-0.086 $\chi^2$/NDF: 12.8/11

Right: -0.075+/-0.077 $\chi^2$/NDF: 40.0/33

In: -0.012+/-0.080 $\chi^2$/NDF:25.8/21

Out: -0.285+/-0.083 $\chi^2$/NDF:23.1/23

All: -0.143+/-0.057 $\chi^2$/NDF: 54.6/45




Right In: 0.049+/-0.006 $\chi^2$/NDF: 19.2/15

Left Out: 0.030+/-0.006 $\chi^2$/NDF:6.6/5

Right Out: 0.028+/-0.006 $\chi^2$/NDF: 10020.9/17

Left In: 0.042+/-0.006 $\chi^2$/NDF:7.4/5

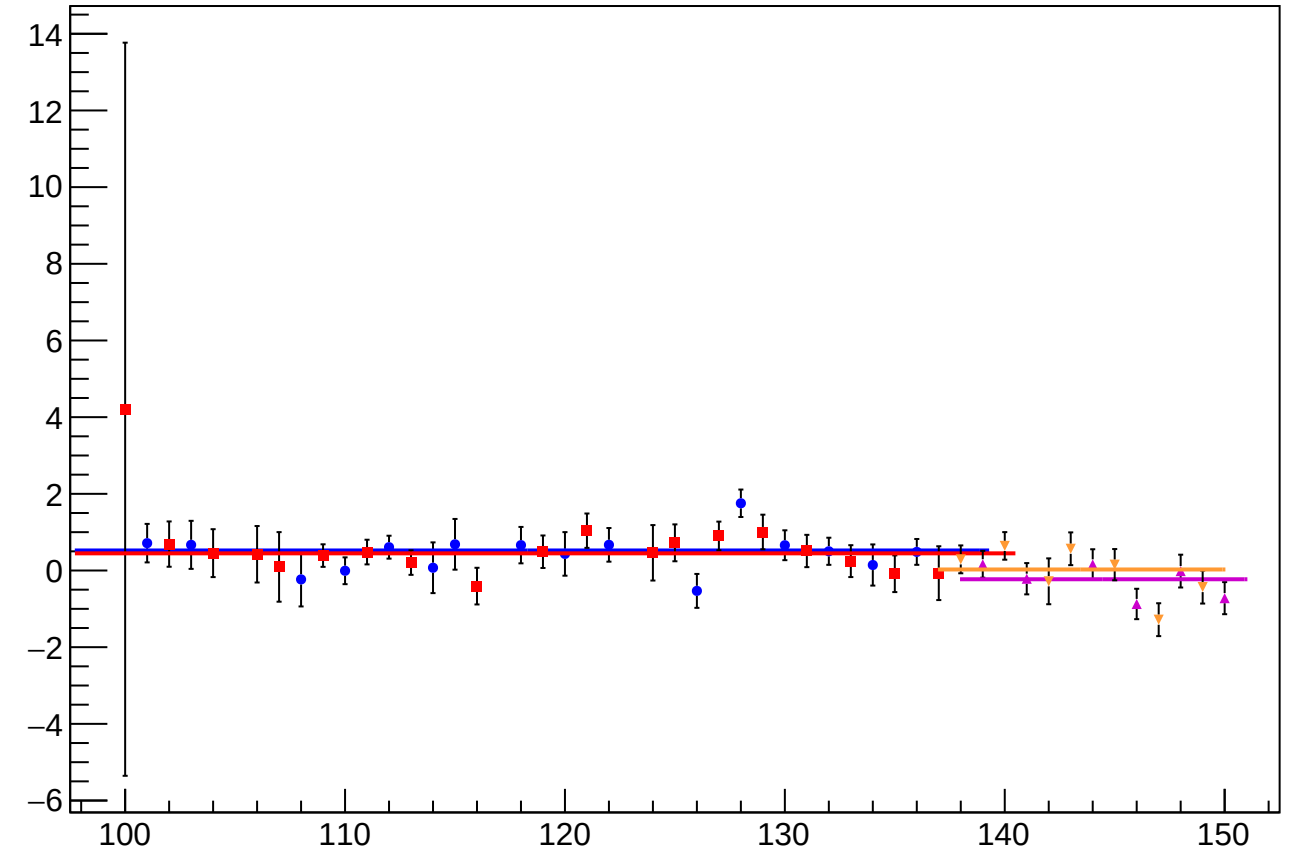
Left: 0.037+/-0.004 $\chi^2$/NDF: 16.1/11

Right: 0.038+/-0.004 $\chi^2$/NDF: 10045.5/33

In: 0.045+/-0.004 $\chi^2$/NDF:27.1/21

Out: 0.029+/-0.004 $\chi^2$/NDF:10027.6/23

All: 0.038+/-0.003 $\chi^2$/NDF: 10061.6/45




Right In: 0.522+/-0.108 $\chi^2$/NDF: 22.6/15

Left Out: 0.027+/-0.157 $\chi^2$/NDF:15.9/6

Right Out: 0.448+/-0.105 $\chi^2$/NDF: 11.4/18

Left In: -0.228+/-0.162 $\chi^2$/NDF:6.5/5

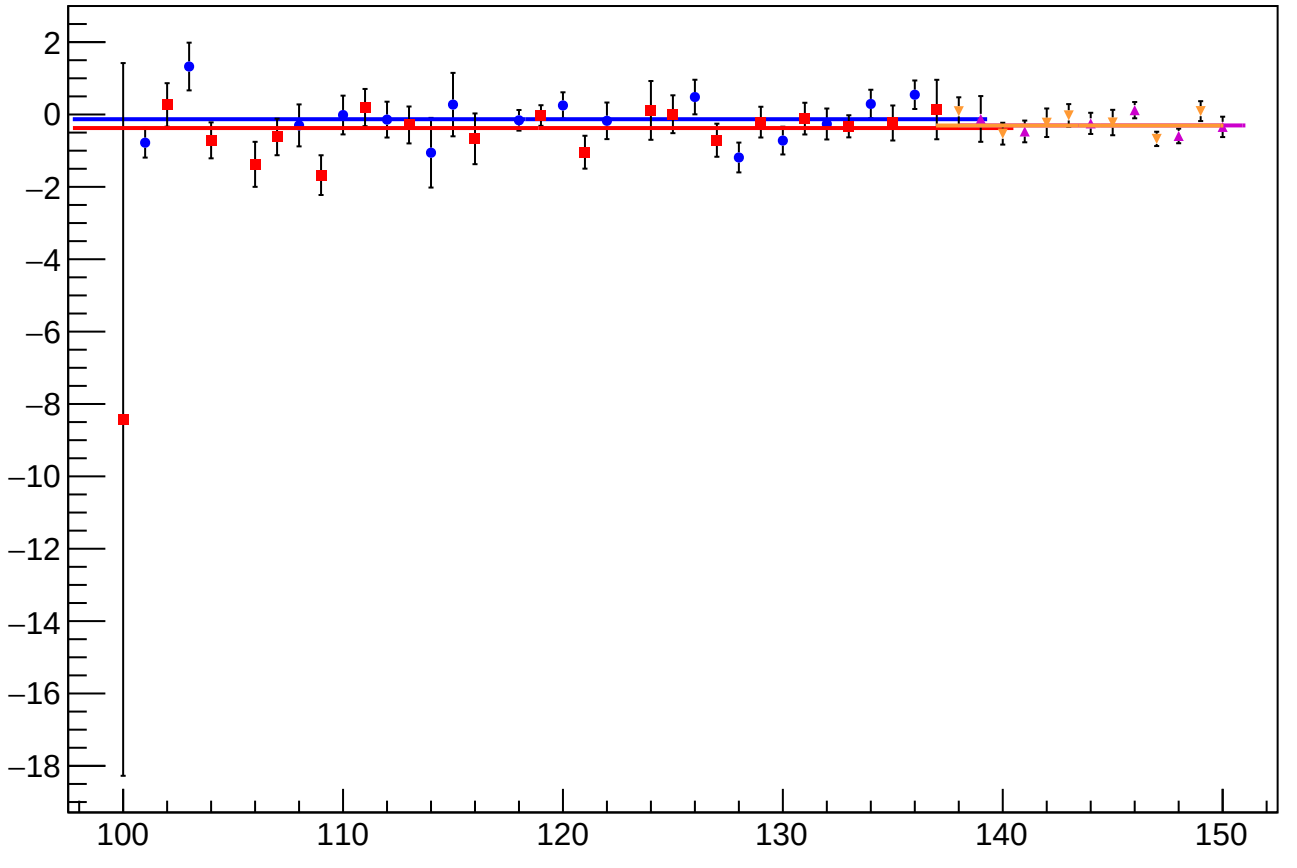
Left: -0.097+/-0.113 $\chi^2$/NDF: 23.6/12

Right: 0.484+/-0.075 $\chi^2$/NDF: 34.3/34

In: 0.290+/-0.090 $\chi^2$/NDF:43.9/21

Out: 0.318+/-0.087 $\chi^2$/NDF:32.2/25

All: 0.304+/-0.063 $\chi^2$/NDF: 76.2/47




Right In: -0.130+/-0.112 $\chi^2$/NDF: 24.6/15

Left Out: -0.305+/-0.111 $\chi^2$/NDF:8.1/6

Right Out: -0.375+/-0.111 $\chi^2$/NDF: 18.2/18

Left In: -0.302+/-0.110 $\chi^2$/NDF:6.0/5

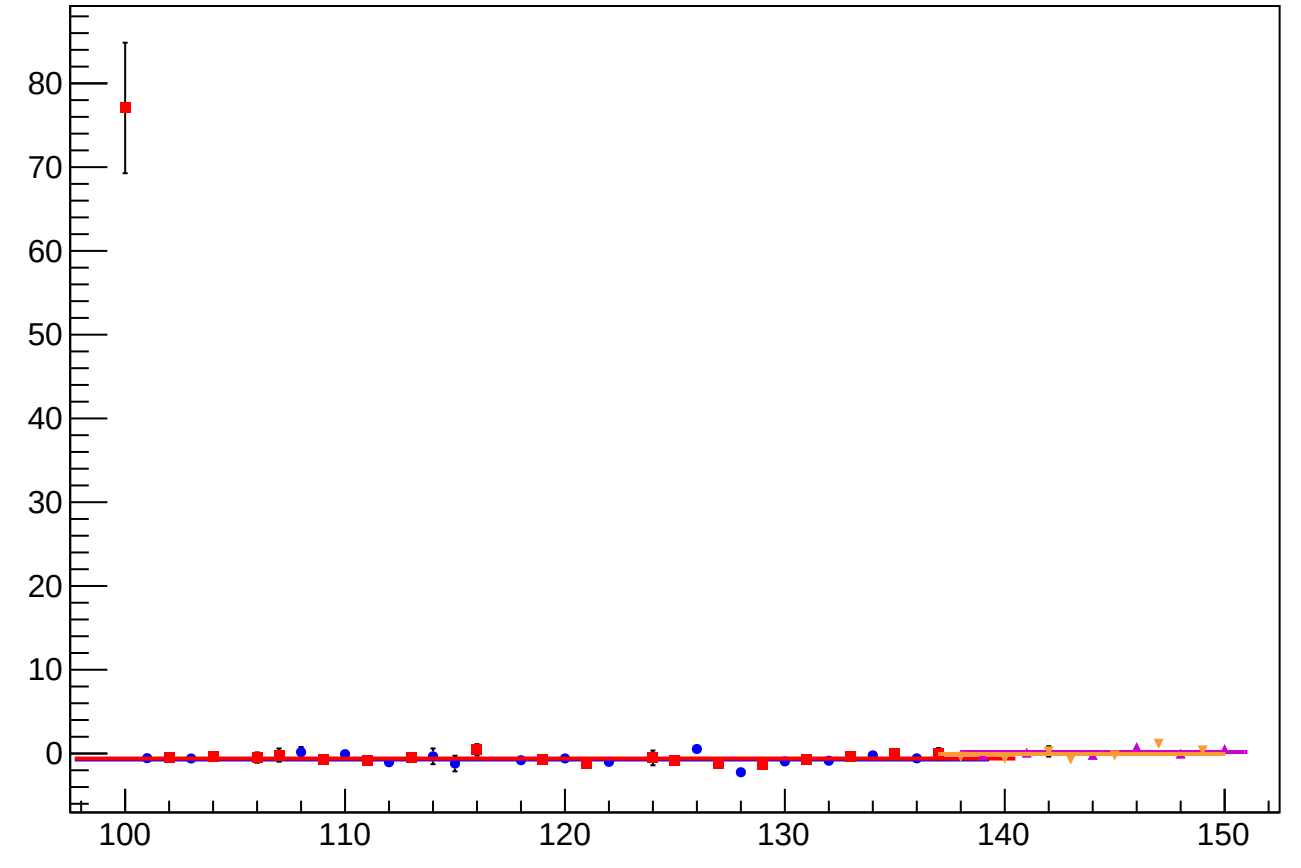
Left: -0.304+/-0.078 $\chi^2$/NDF: 14.1/12

Right: -0.253+/-0.079 $\chi^2$/NDF: 45.2/34

In: -0.217+/-0.078 $\chi^2$/NDF:31.8/21

Out: -0.340+/-0.079 $\chi^2$/NDF:26.5/25

All: -0.278+/-0.056 $\chi^2$/NDF: 59.5/47




Right In: -0.713+/-0.122 $\chi^2$/NDF: 24.9/15

Left Out: -0.056+/-0.158 $\chi^2$/NDF:16.1/6

Right Out: -0.597+/-0.122 $\chi^2$/NDF: 110.9/18

Left In: 0.179+/-0.160 $\chi^2$/NDF:5.3/5

Left: 0.060+/-0.112 $\chi^2$/NDF: 22.5/12

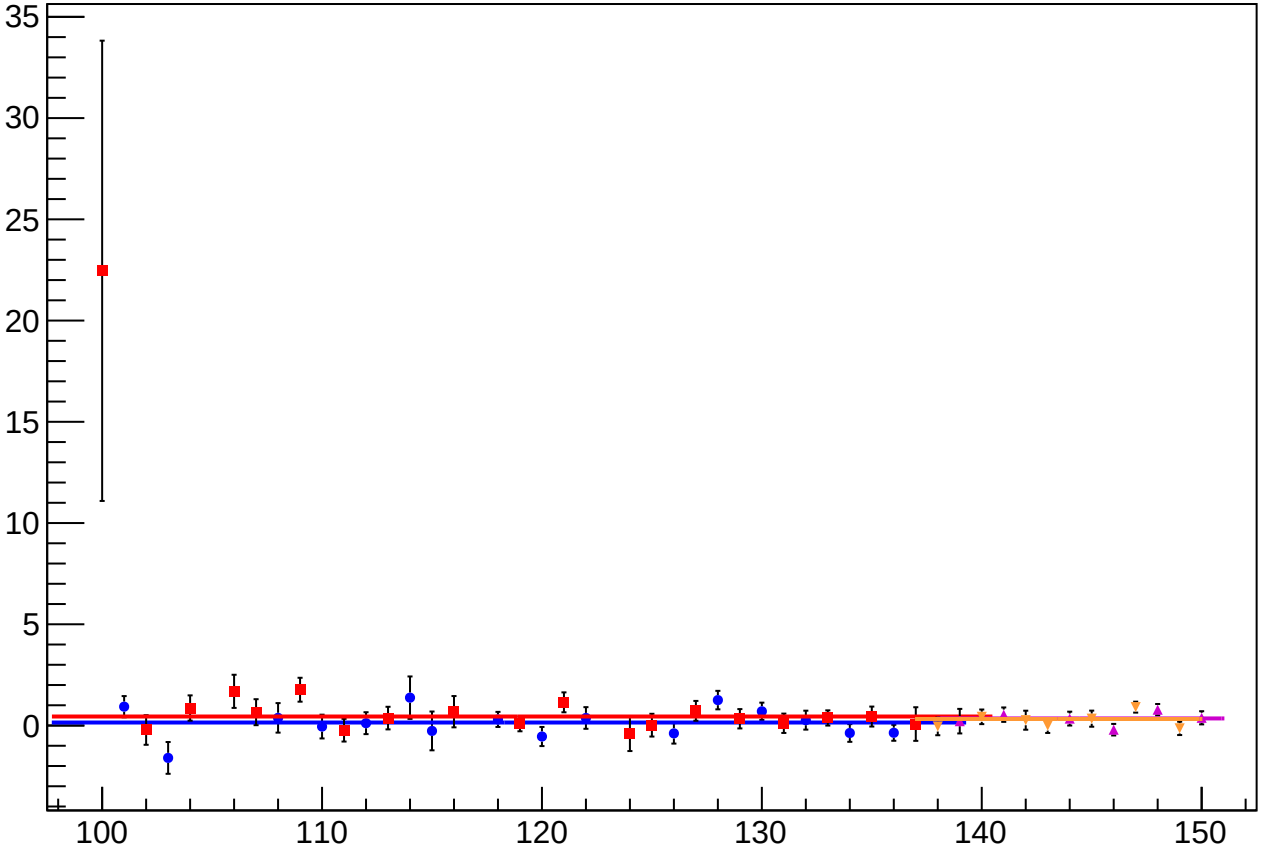
Right: -0.655+/-0.086 $\chi^2$/NDF: 136.3/34

In: -0.387+/-0.097 $\chi^2$/NDF:49.9/21

Out: -0.395+/-0.096 $\chi^2$/NDF:134.5/25

All: -0.391+/-0.068 $\chi^2$/NDF: 184.3/47

# reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.148+/-0.128 $\chi^2$/NDF: 23.3/15

Left Out: 0.323+/-0.136 $\chi^2$/NDF:8.3/6

Right Out: 0.445+/-0.128 $\chi^2$/NDF: 19.7/18

Left In: 0.349+/-0.137 $\chi^2$/NDF:6.5/5

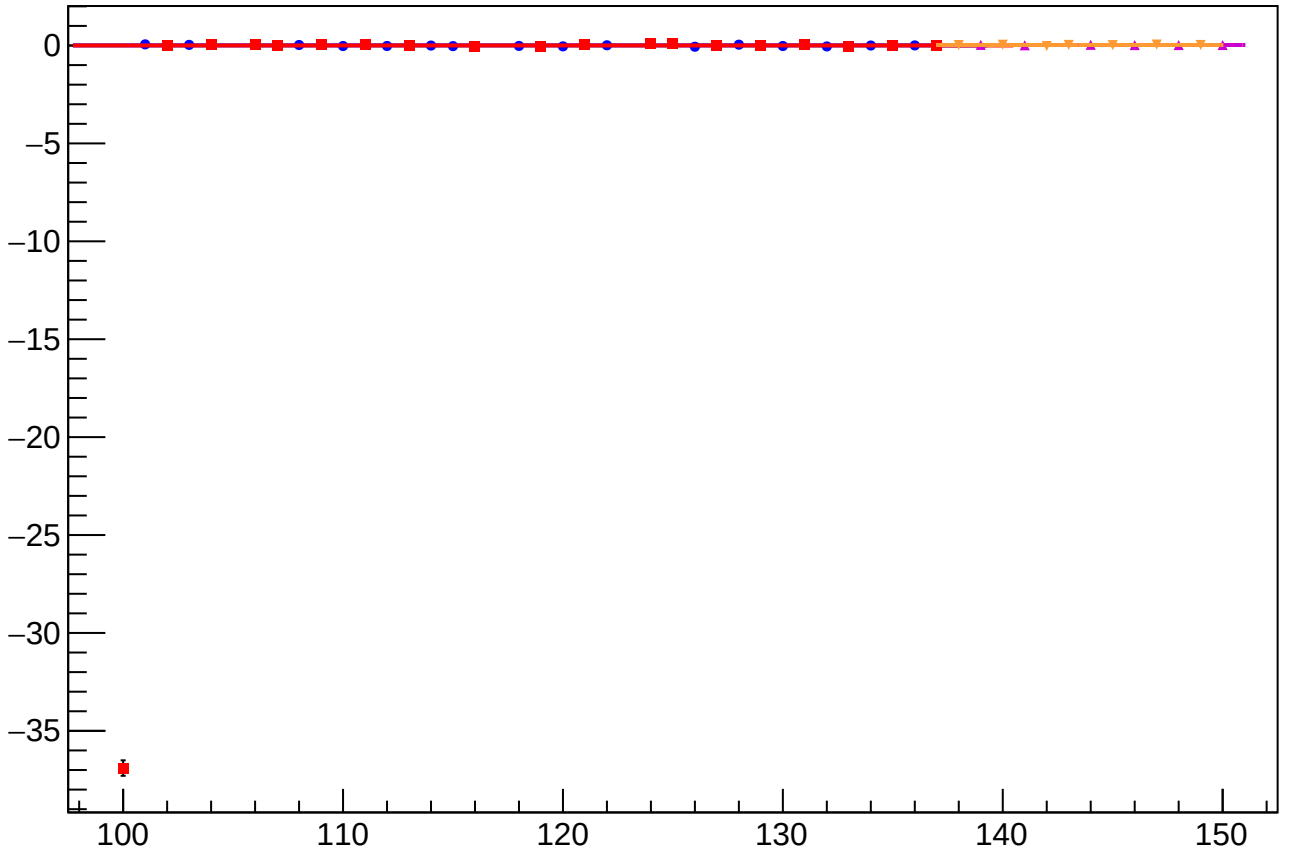
Left: 0.336+/-0.096 $\chi^2$/NDF: 14.8/12

Right: 0.296+/-0.090 $\chi^2$/NDF: 45.7/34

In: 0.242+/-0.093 $\chi^2$/NDF:30.9/21

Out: 0.387+/-0.093 $\chi^2$/NDF:28.4/25

All: 0.315+/-0.066 $\chi^2$/NDF: 60.5/47




Right In: 0.006+/-0.007 $\chi^2$/NDF: 17.6/15

Left Out: 0.026+/-0.007 $\chi^2$/NDF:7.0/6

Right Out: 0.002+/-0.007 $\chi^2$/NDF: 8753.3/18

Left In: 0.026+/-0.006 $\chi^2$/NDF:1.5/5

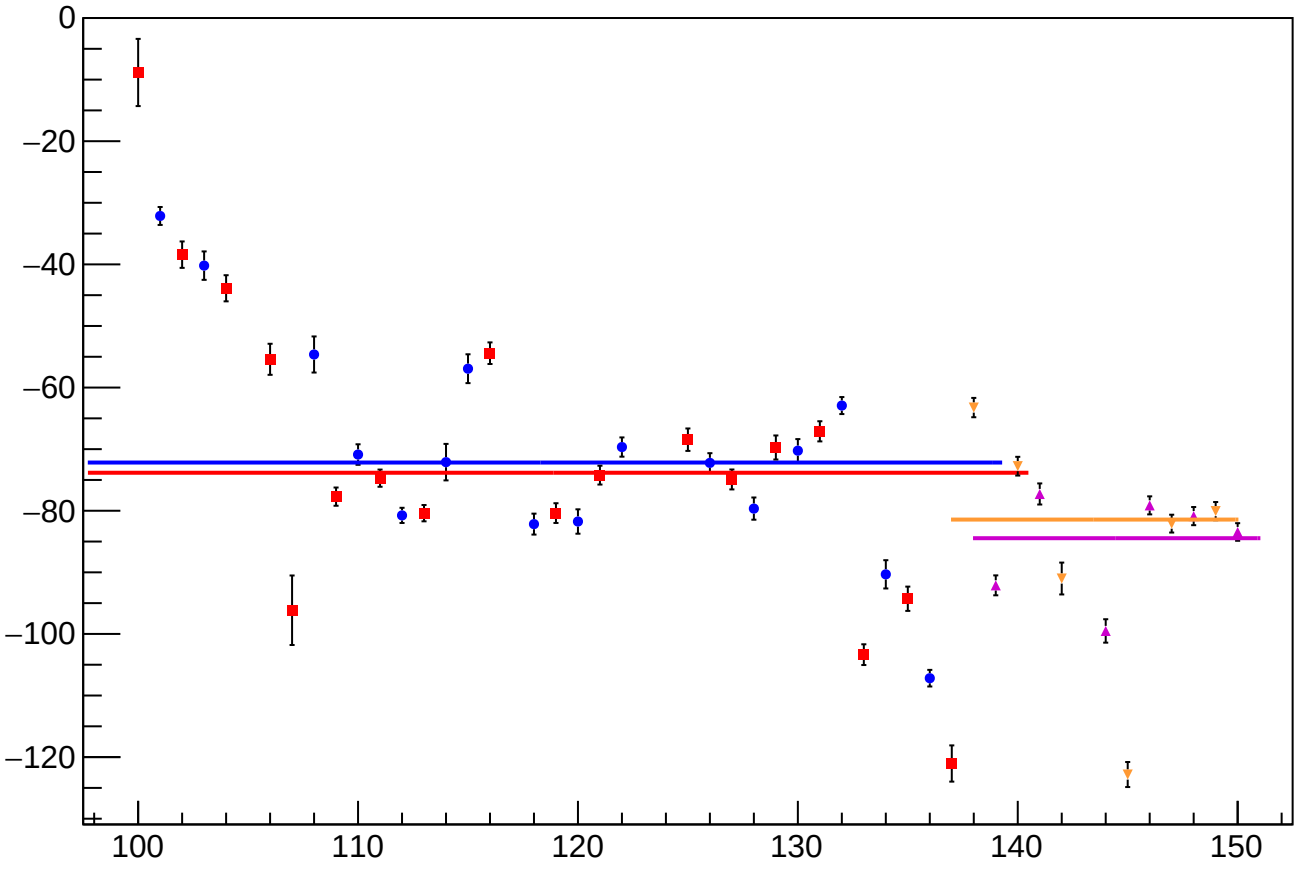
Left: 0.026+/-0.005 $\chi^2$/NDF: 8.5/12

Right: 0.004+/-0.005 $\chi^2$/NDF: 8771.0/34

In: 0.017+/-0.005 $\chi^2$/NDF:23.1/21

Out: 0.016+/-0.005 $\chi^2$/NDF:8766.2/25

All: 0.017+/-0.003 $\chi^2$/NDF: 8789.4/47




Right In: -72.173+/-0.432 $\chi^2$/NDF: 1936.0/15

Left Out: -81.433+/-0.679 $\chi^2$/NDF:596.4/5

Right Out: -73.831+/-0.431 $\chi^2$/NDF: 1557.7/17

Left In: -84.458+/-0.643 $\chi^2$/NDF:122.3/5

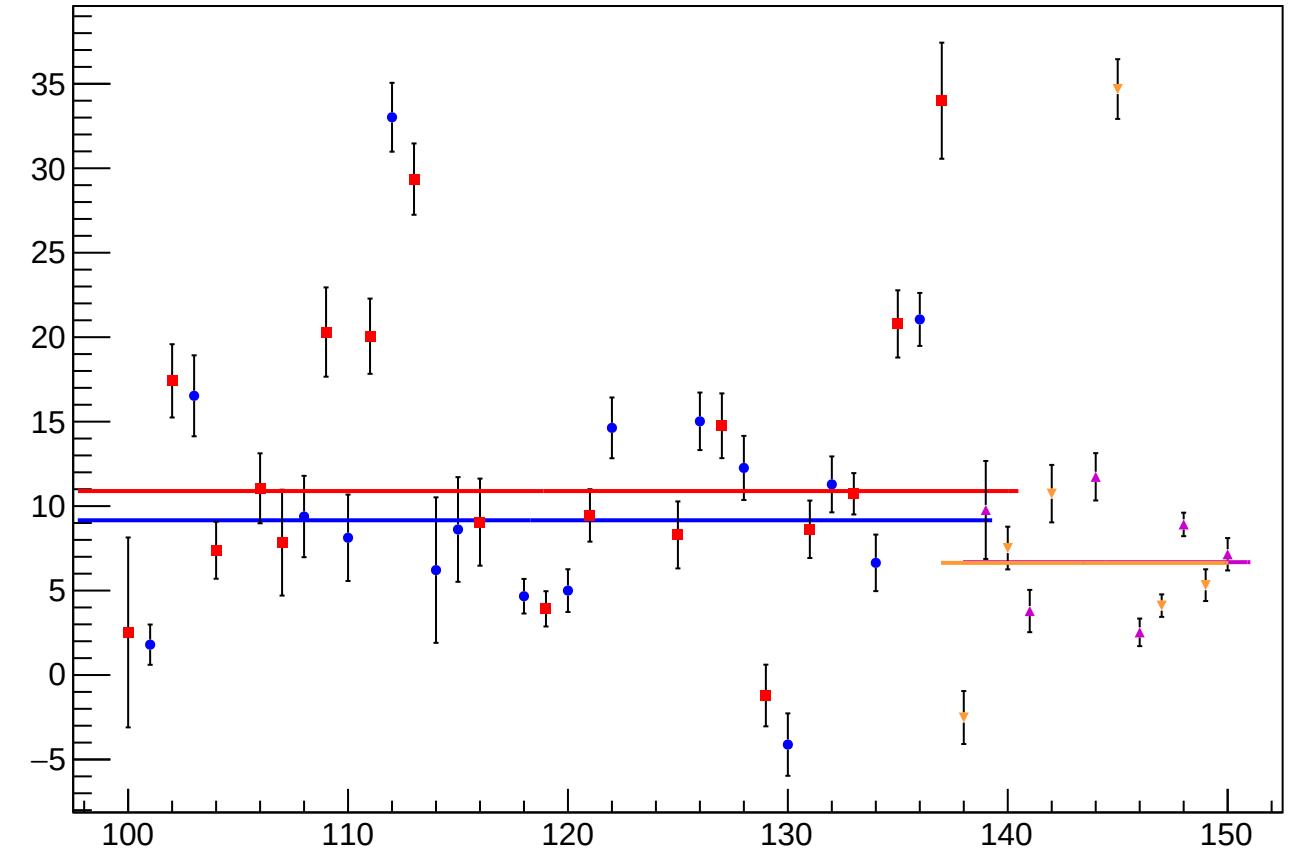
Left: -83.028+/-0.467 $\chi^2$/NDF: 729.2/11

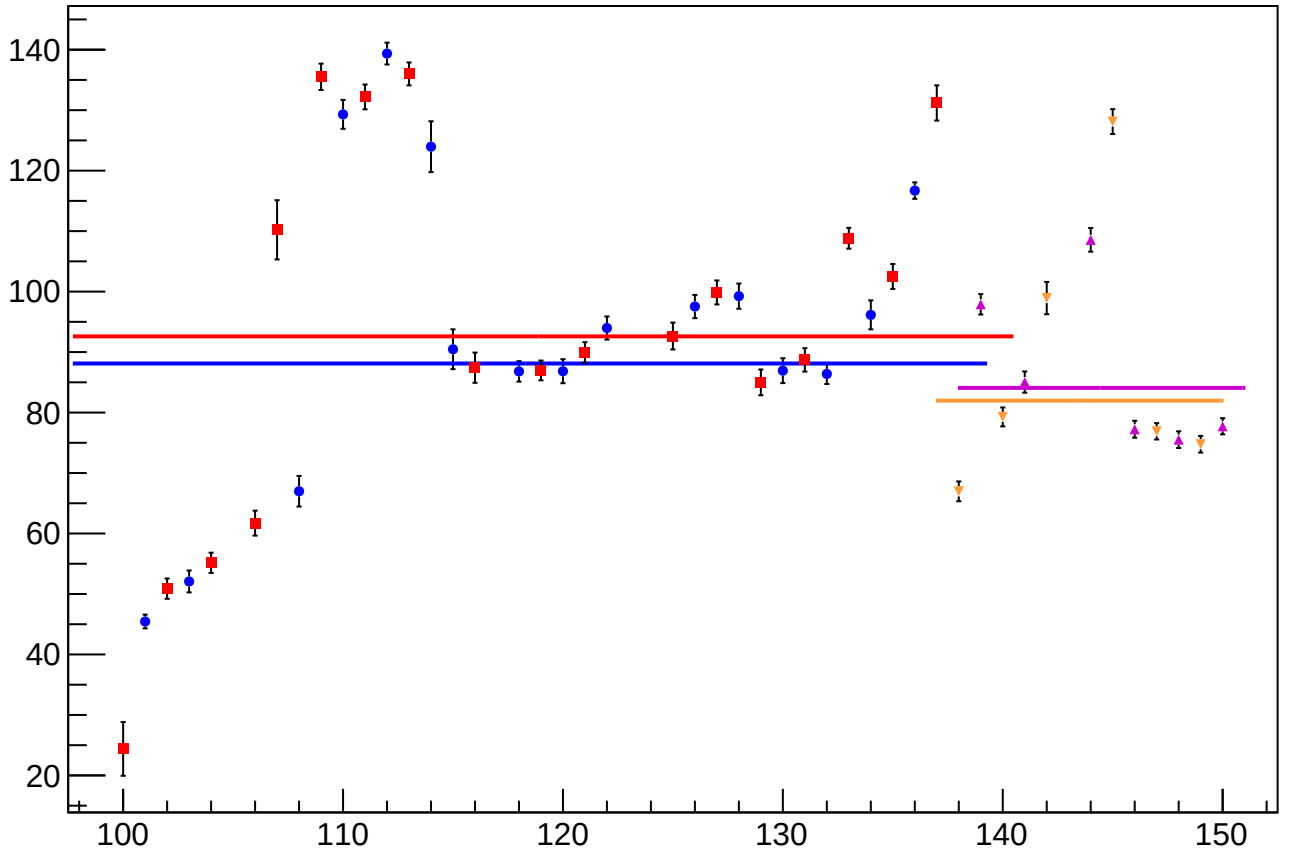
Right: -73.004+/-0.305 $\chi^2$/NDF: 3501.0/33

In: -75.990+/-0.359 $\chi^2$/NDF:2309.6/21

Out: -76.009+/-0.364 $\chi^2$/NDF:2243.4/23

All: -75.999+/-0.255 $\chi^2$/NDF: 4553.0/45


reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
35
30
25
20
15
10
5
0
−5
100
110
120
130
140
150
Right In: 9.161+/-0.425 χ²/NDF: 352.1/15
Left Out: 6.640+/-0.443 χ²/NDF:308.7/5
Right Out: 10.892+/-0.440 χ²/NDF: 290.2/17
Left In: 6.681+/-0.411 χ²/NDF:56.0/5
Left: 6.662+/-0.301 χ²/NDF: 364.7/11
Right: 9.996+/-0.306 χ²/NDF: 650.3/33
In: 7.878+/-0.295 χ²/NDF:425.7/21
Out: 8.781+/-0.312 χ²/NDF:645.2/23
All: 8.304+/-0.215 χ²/NDF: 1075.3/45




Right In: 88.109+/-0.469 $\chi^2$/NDF: 3561.7/15

Left Out: 81.972+/-0.669 $\chi^2$/NDF:671.3/5

Right Out: 92.596+/-0.483 $\chi^2$/NDF: 3211.0/17

Left In: 84.081+/-0.628 $\chi^2$/NDF:308.5/5

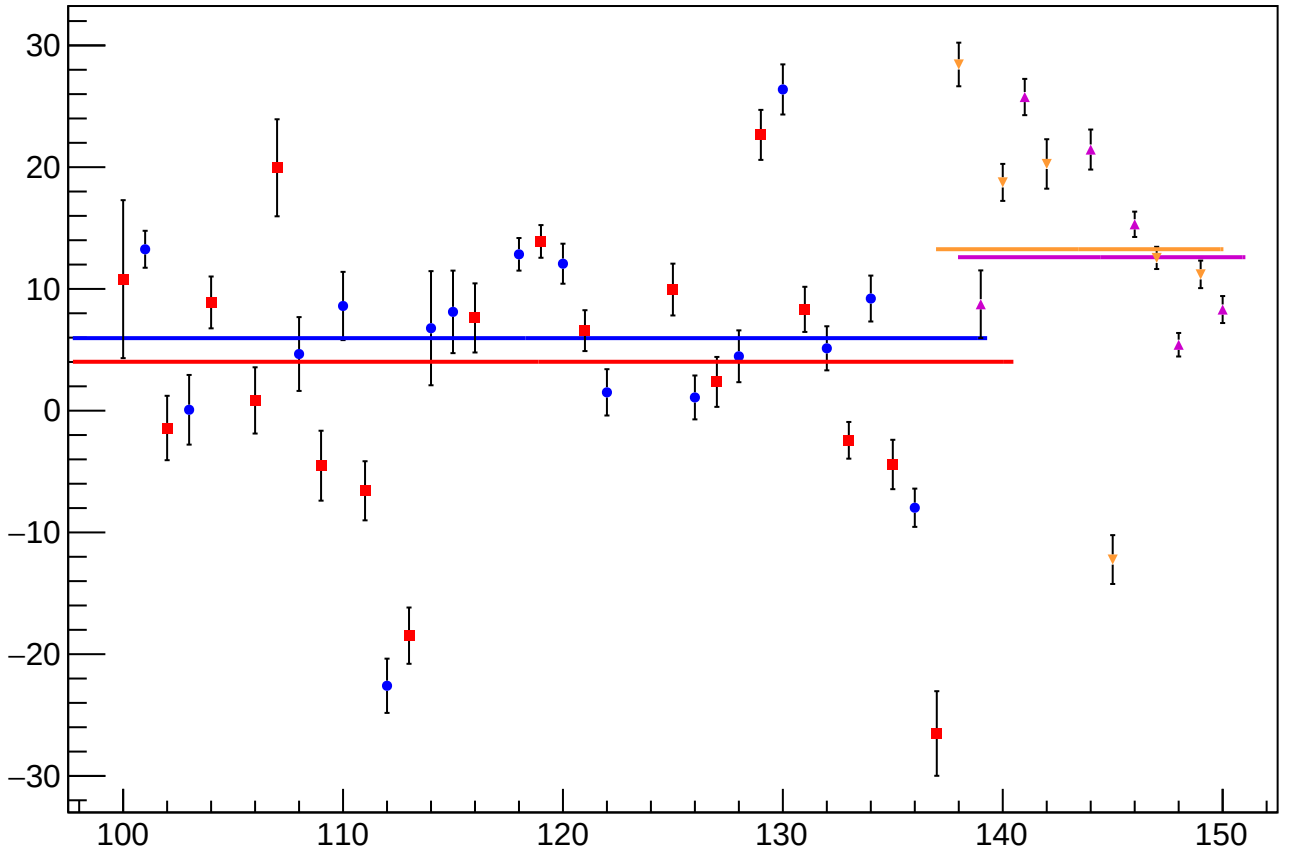
Left: 83.092+/-0.458 $\chi^2$/NDF: 985.1/11

Right: 90.284+/-0.336 $\chi^2$/NDF: 6817.1/33

In: 86.670+/-0.376 $\chi^2$/NDF:3896.6/21

Out: 88.956+/-0.392 $\chi^2$/NDF:4048.0/23

All: 87.765+/-0.271 $\chi^2$/NDF: 7962.3/45




Right In: 5.958+/-0.495 $\chi^2$/NDF: 426.8/15

Left Out: 13.262+/-0.557 $\chi^2$/NDF:262.1/5

Right Out: 4.017+/-0.510 $\chi^2$/NDF: 417.7/17

Left In: 12.606+/-0.516 $\chi^2$/NDF:186.0/5

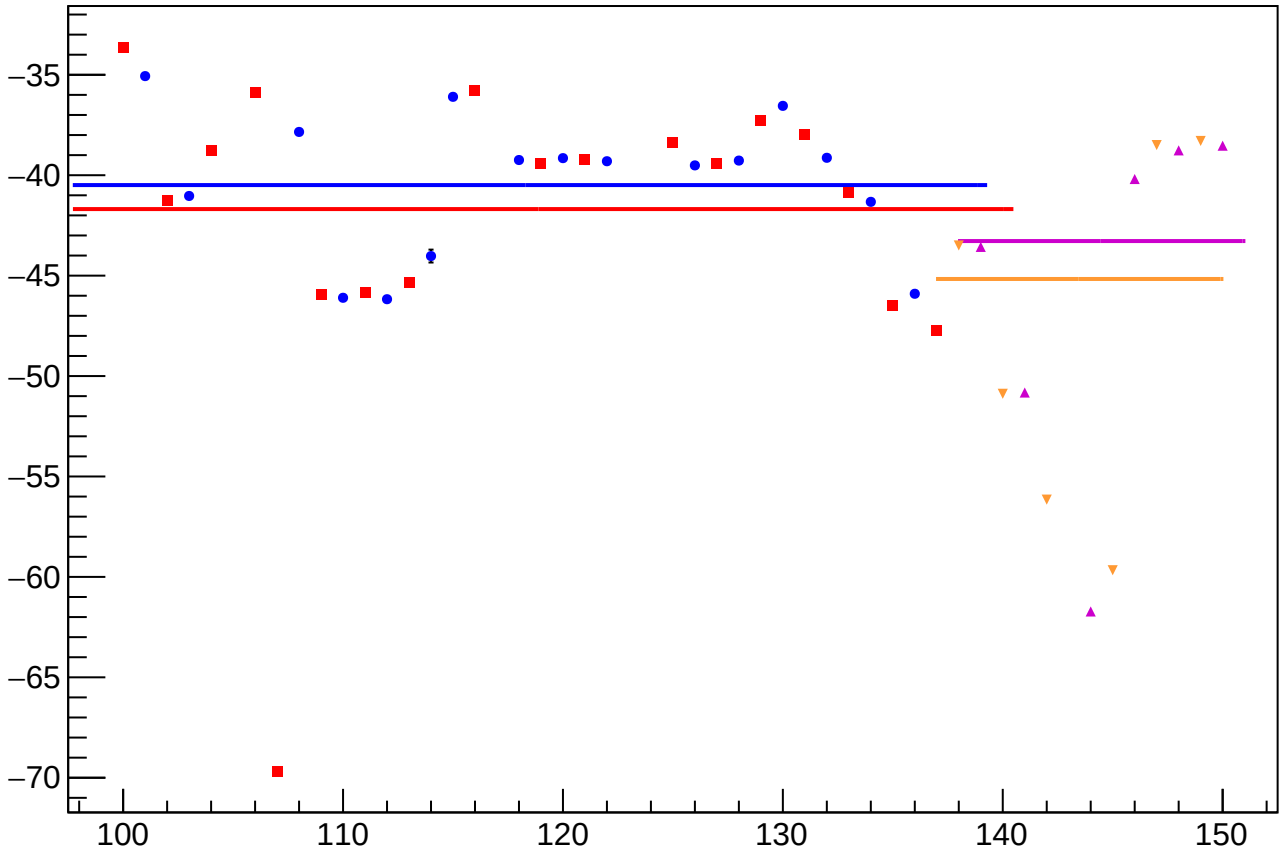
Left: 12.909+/-0.379 $\chi^2$/NDF: 448.9/11

Right: 5.016+/-0.355 $\chi^2$/NDF: 851.9/33

In: 9.143+/-0.357 $\chi^2$/NDF:699.3/21

Out: 8.227+/-0.376 $\chi^2$/NDF:829.7/23

All: 8.709+/-0.259 $\chi^2$/NDF: 1532.2/45




Right In: -40.491+/-0.028 $\chi^2$/NDF: 18125.4/15

Left Out: -45.166+/-0.028 $\chi^2$/NDF:75633.8/5

Right Out: -41.686+/-0.029 $\chi^2$/NDF: 36838.6/17

Left In: -43.278+/-0.025 $\chi^2$/NDF:71850.1/5

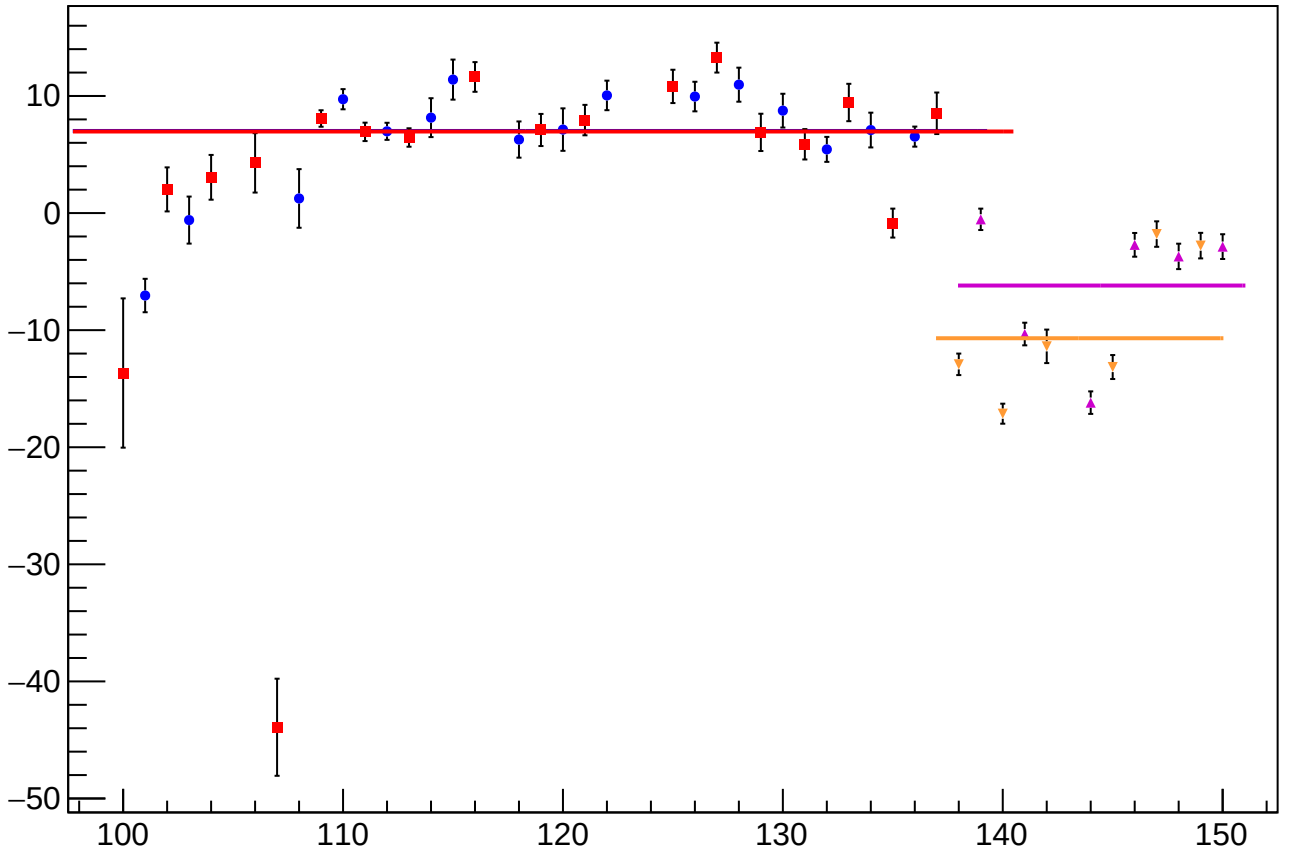
Left: -44.124+/-0.019 $\chi^2$/NDF: 149941.5/11

Right: -41.069+/-0.020 $\chi^2$/NDF: 55825.2/33

In: -42.030+/-0.019 $\chi^2$/NDF:95327.3/21

Out: -43.484+/-0.020 $\chi^2$/NDF:119785.8/23

All: -42.705+/-0.014 $\chi^2$/NDF: 217848.0/45




Right In: 7.011+/-0.309 $\chi^2$/NDF: 156.3/15

Left Out: -10.691+/-0.420 $\chi^2$/NDF:188.1/5

Right Out: 6.967+/-0.298 $\chi^2$/NDF: 266.0/17

Left In: -6.190+/-0.406 $\chi^2$/NDF:191.7/5

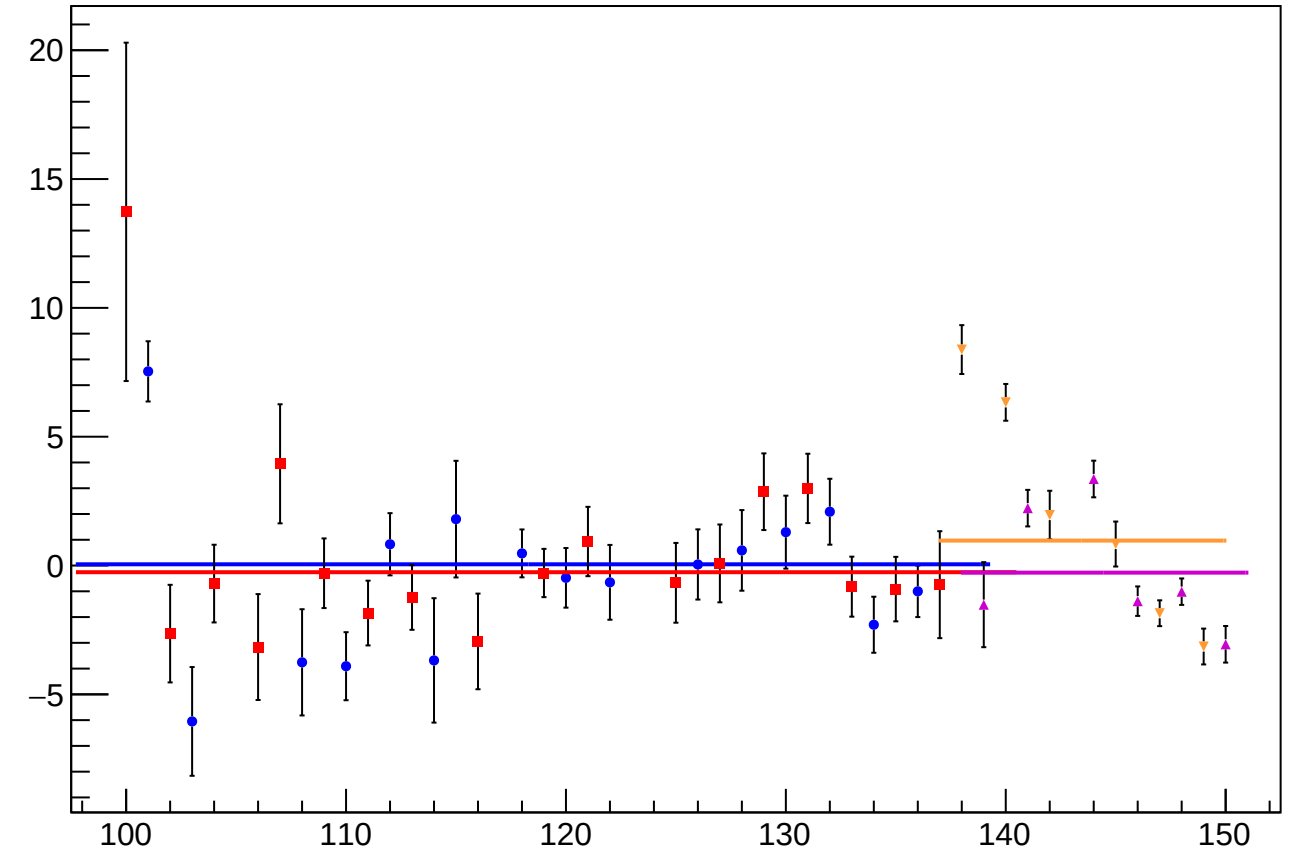
Left: -8.366+/-0.292 $\chi^2$/NDF: 439.2/11

Right: 6.988+/-0.215 $\chi^2$/NDF: 422.3/33

In: 2.165+/-0.246 $\chi^2$/NDF:1016.8/21

Out: 1.042+/-0.243 $\chi^2$/NDF:1630.8/23

All: 1.597+/-0.173 $\chi^2$/NDF: 2658.2/45




Right In: 0.048+/-0.331 $\chi^2$/NDF: 75.0/15

Left Out: 0.968+/-0.294 $\chi^2$/NDF:185.4/5

Right Out: -0.259+/-0.344 $\chi^2$/NDF: 27.5/17

Left In: -0.275+/-0.276 $\chi^2$/NDF:60.3/5

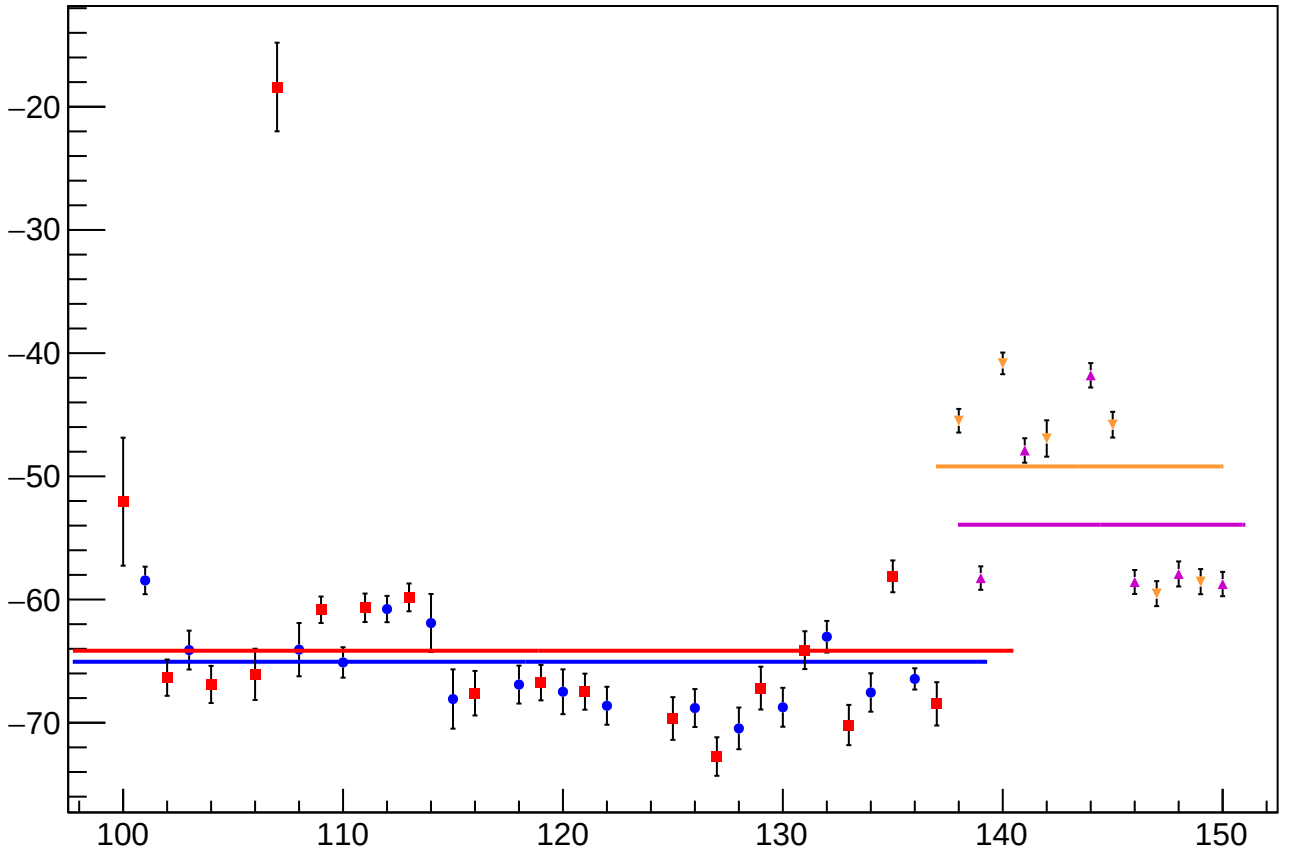
Left: 0.306+/-0.201 $\chi^2$/NDF: 255.2/11

Right: -0.099+/-0.239 $\chi^2$/NDF: 102.9/33

In: -0.143+/-0.212 $\chi^2$/NDF:135.8/21

Out: 0.451+/-0.224 $\chi^2$/NDF:220.3/23

All: 0.138+/-0.154 $\chi^2$/NDF: 359.8/45




Right In: -65.051+/-0.354 $\chi^2$/NDF: 92.8/15

Left Out: -49.196+/-0.419 $\chi^2$/NDF:305.9/5

Right Out: -64.156+/-0.360 $\chi^2$/NDF: 303.7/17

Left In: -53.928+/-0.402 $\chi^2$/NDF:269.7/5

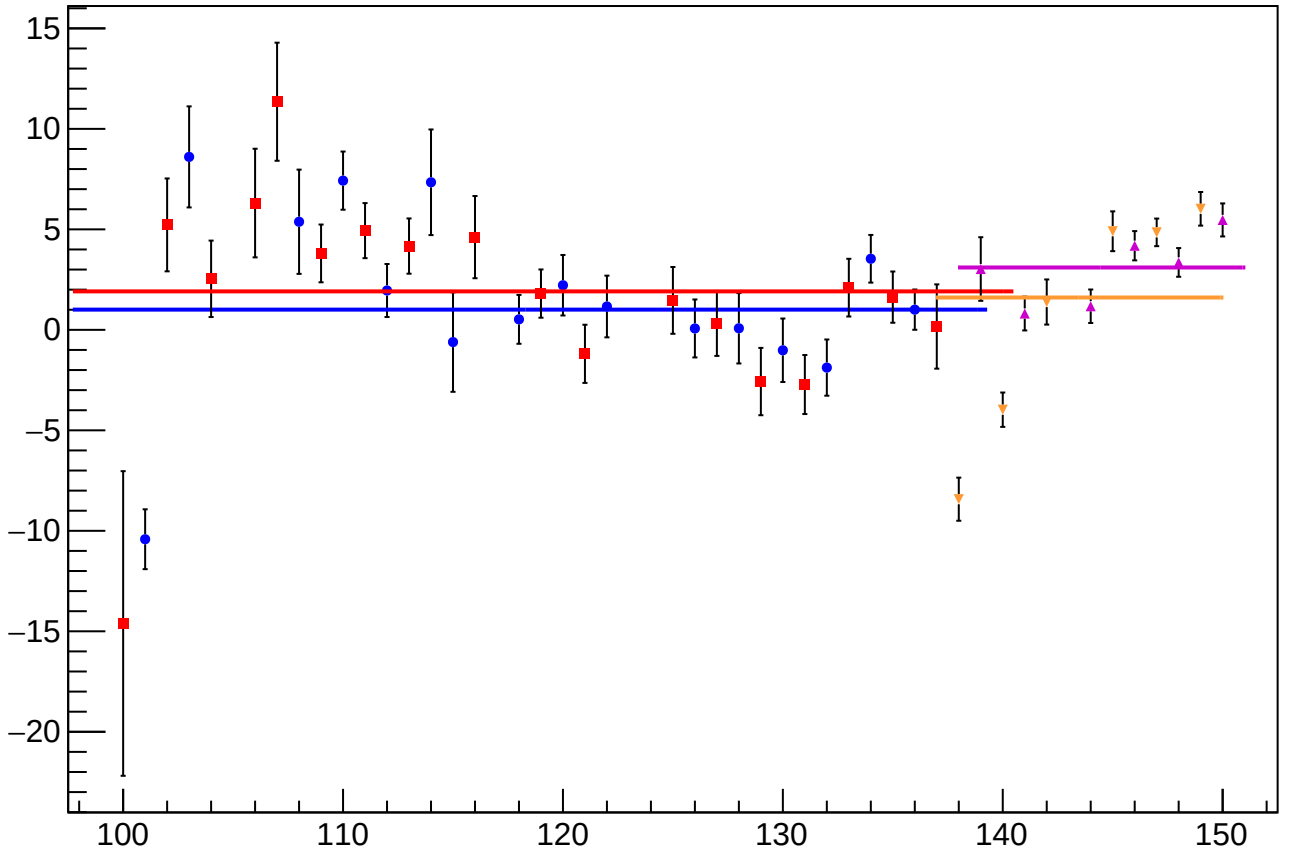
Left: -51.662+/-0.290 $\chi^2$/NDF: 642.0/11

Right: -64.611+/-0.253 $\chi^2$/NDF: 399.6/33

In: -60.191+/-0.266 $\chi^2$/NDF:793.9/21

Out: -57.799+/-0.273 $\chi^2$/NDF:1341.6/23

All: -59.029+/-0.190 $\chi^2$/NDF: 2174.9/45




Right In: 1.006+/-0.376 $\chi^2$/NDF: 109.2/15

Left Out: 1.609+/-0.363 $\chi^2$/NDF:191.5/5

Right Out: 1.914+/-0.390 $\chi^2$/NDF: 54.5/17

Left In: 3.103+/-0.341 $\chi^2$/NDF:23.4/5

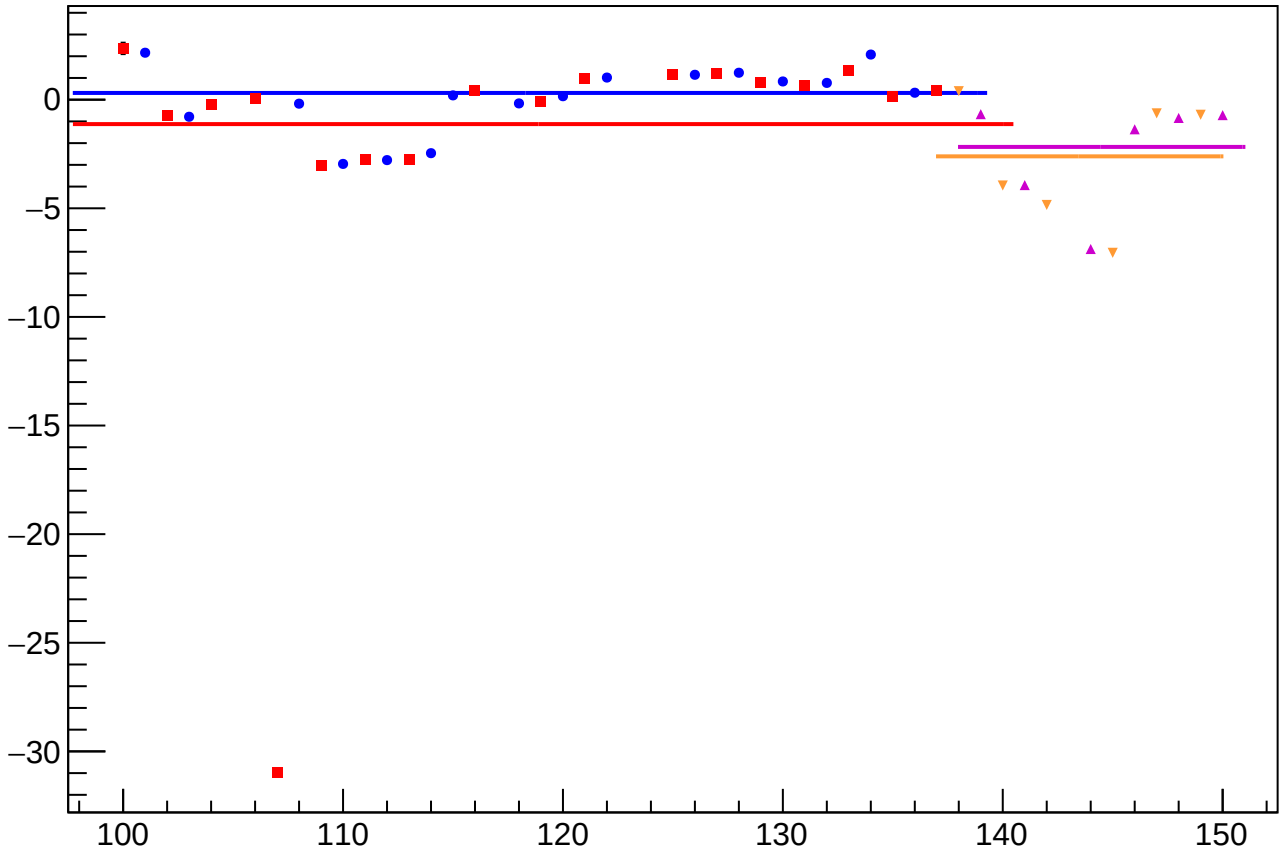
Left: 2.401+/-0.249 $\chi^2$/NDF: 223.9/11

Right: 1.443+/-0.270 $\chi^2$/NDF: 166.5/33

In: 2.155+/-0.253 $\chi^2$/NDF:149.7/21

Out: 1.751+/-0.265 $\chi^2$/NDF:246.3/23

All: 1.963+/-0.183 $\chi^2$/NDF: 397.2/45




Right In: 0.310+/-0.021 $\chi^2$/NDF: 4848.4/15

Left Out: -2.609+/-0.018 $\chi^2$/NDF:24324.4/5

Right Out: -1.124+/-0.022 $\chi^2$/NDF: 46347.9/17

Left In: -2.174+/-0.016 $\chi^2$/NDF:17867.7/5

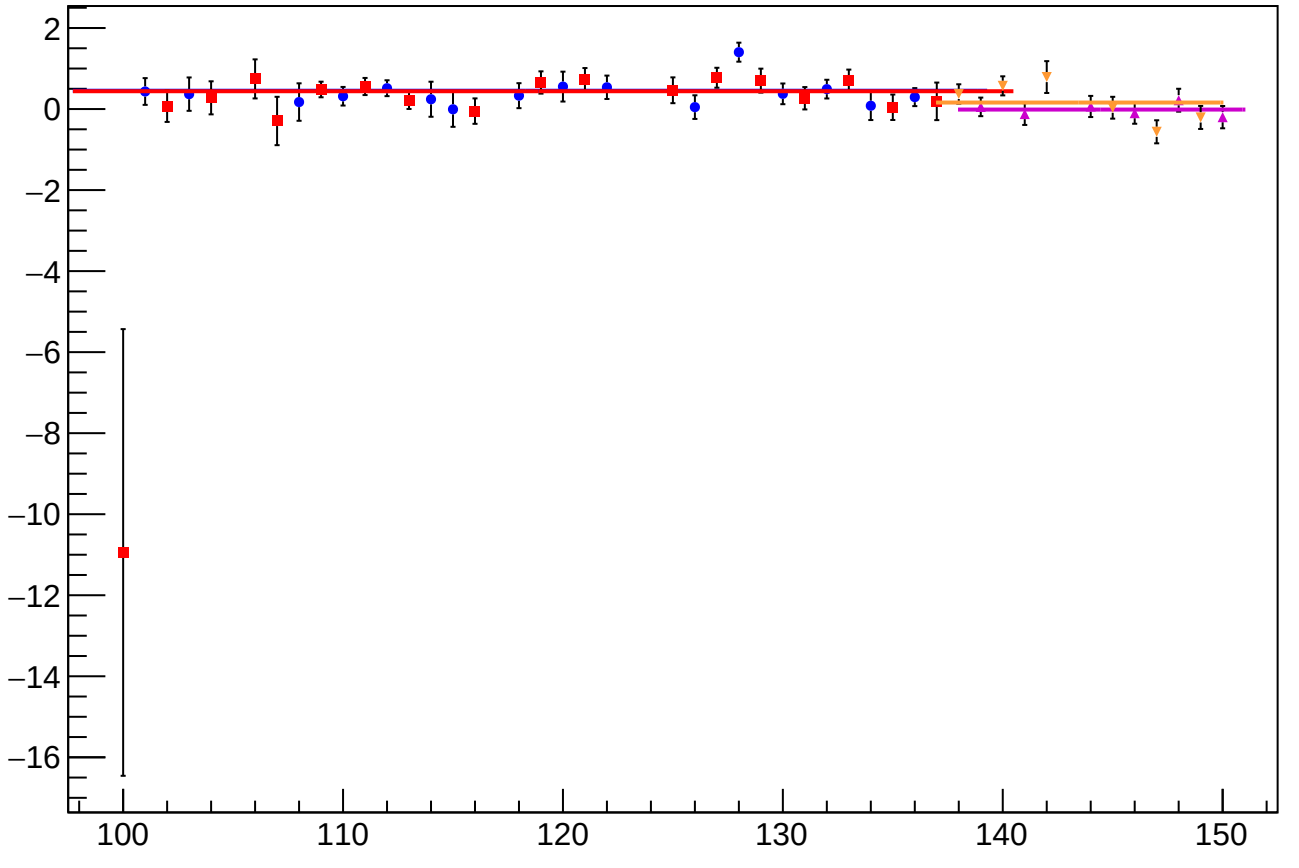
Left: -2.375+/-0.012 $\chi^2$/NDF: 42522.3/11

Right: -0.369+/-0.015 $\chi^2$/NDF: 53391.3/33

In: -1.245+/-0.013 $\chi^2$/NDF:31423.7/21

Out: -2.039+/-0.014 $\chi^2$/NDF:73425.7/23

All: -1.616+/-0.009 $\chi^2$/NDF: 106623.5/45




Right In: 0.452+/-0.071 $\chi^2$/NDF: 22.6/15

Left Out: 0.161+/-0.111 $\chi^2$/NDF:14.8/5

Right Out: 0.440+/-0.070 $\chi^2$/NDF: 18.5/17

Left In: -0.013+/-0.107 $\chi^2$/NDF:1.6/5

Left: 0.070+/-0.077 $\chi^2$/NDF: 17.6/11

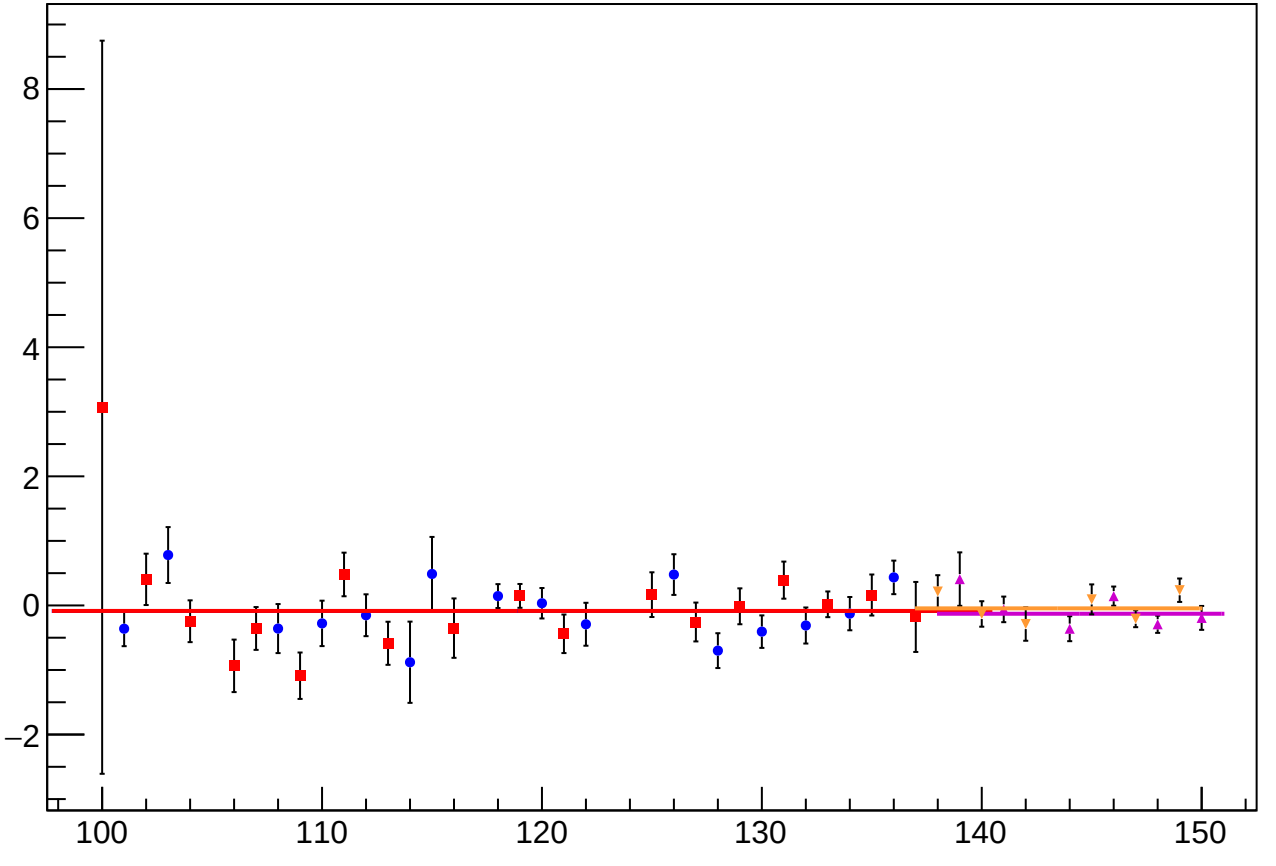
Right: 0.446+/-0.050 $\chi^2$/NDF: 41.2/33

In: 0.309+/-0.059 $\chi^2$/NDF:37.4/21

Out: 0.361+/-0.059 $\chi^2$/NDF:37.8/23

All: 0.335+/-0.042 $\chi^2$/NDF: 75.6/45

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.086+/-0.073 $\chi^2$/NDF: 25.4/15

Left Out: -0.045+/-0.078 $\chi^2$/NDF:6.4/5

Right Out: -0.085+/-0.074 $\chi^2$/NDF: 27.9/17

Left In: -0.129+/-0.073 $\chi^2$/NDF:8.2/5

Left: -0.090+/-0.053 $\chi^2$/NDF: 15.2/11

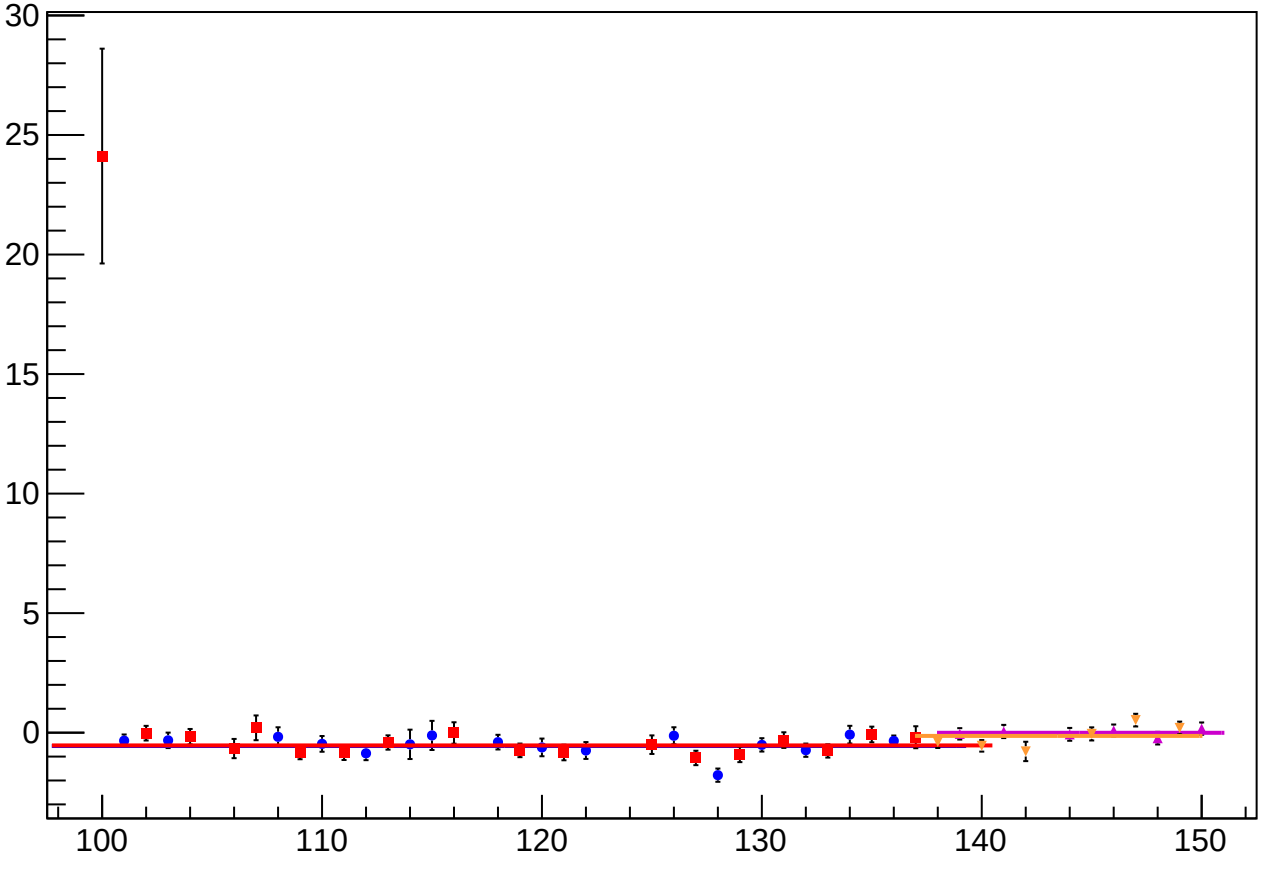
Right: -0.086+/-0.052 $\chi^2$/NDF: 53.3/33

In: -0.108+/-0.052 $\chi^2$/NDF:33.8/21

Out: -0.067+/-0.054 $\chi^2$/NDF:34.4/23

All: -0.088+/-0.037 $\chi^2$/NDF: 68.5/45

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.558+/-0.080 $\chi^2$/NDF: 28.3/15

Left Out: -0.135+/-0.111 $\chi^2$/NDF:14.4/5

Right Out: -0.534+/-0.081 $\chi^2$/NDF: 49.2/17

Left In: -0.005+/-0.106 $\chi^2$/NDF:1.5/5

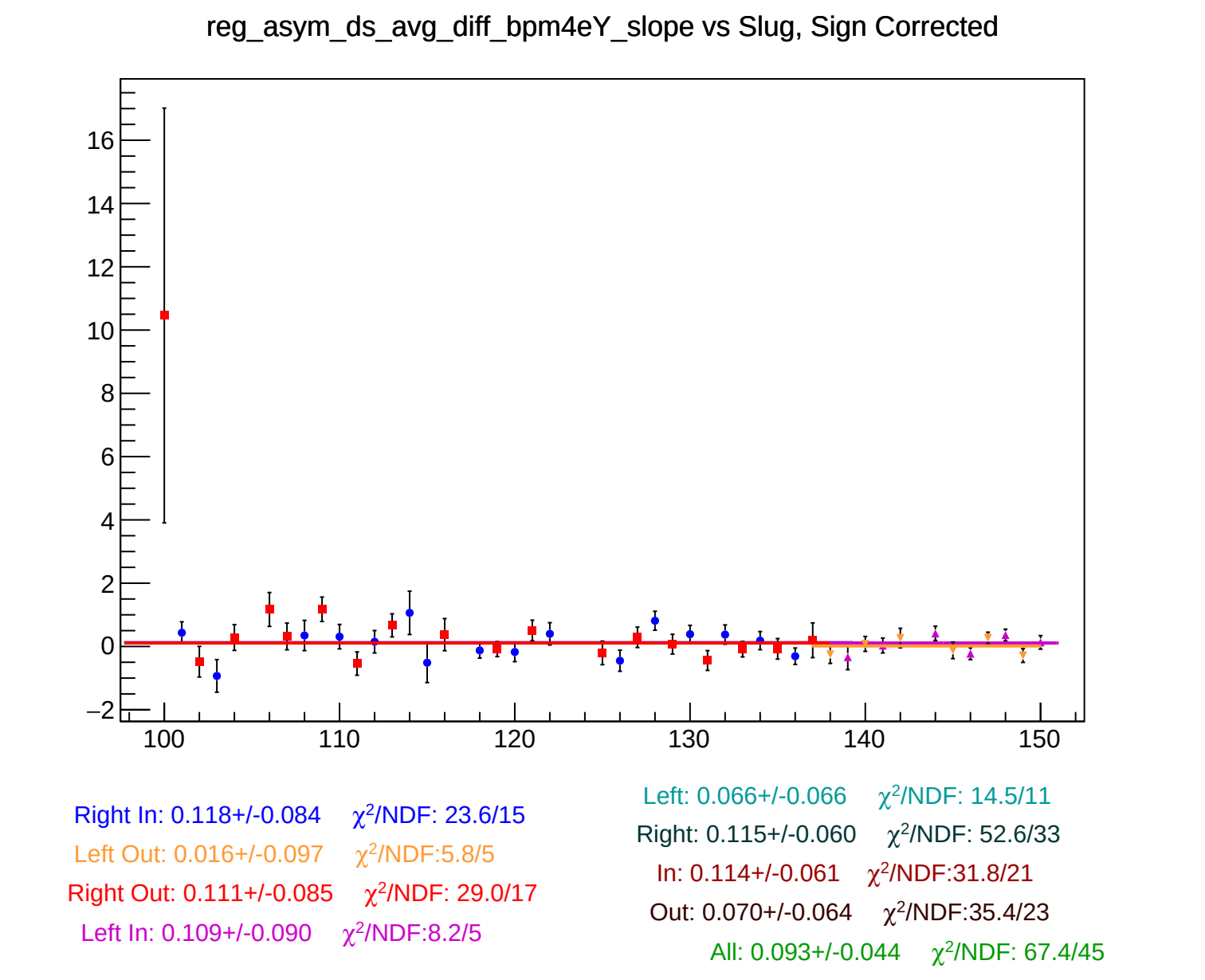
Left: -0.067+/-0.077 $\chi^2$/NDF: 16.6/11

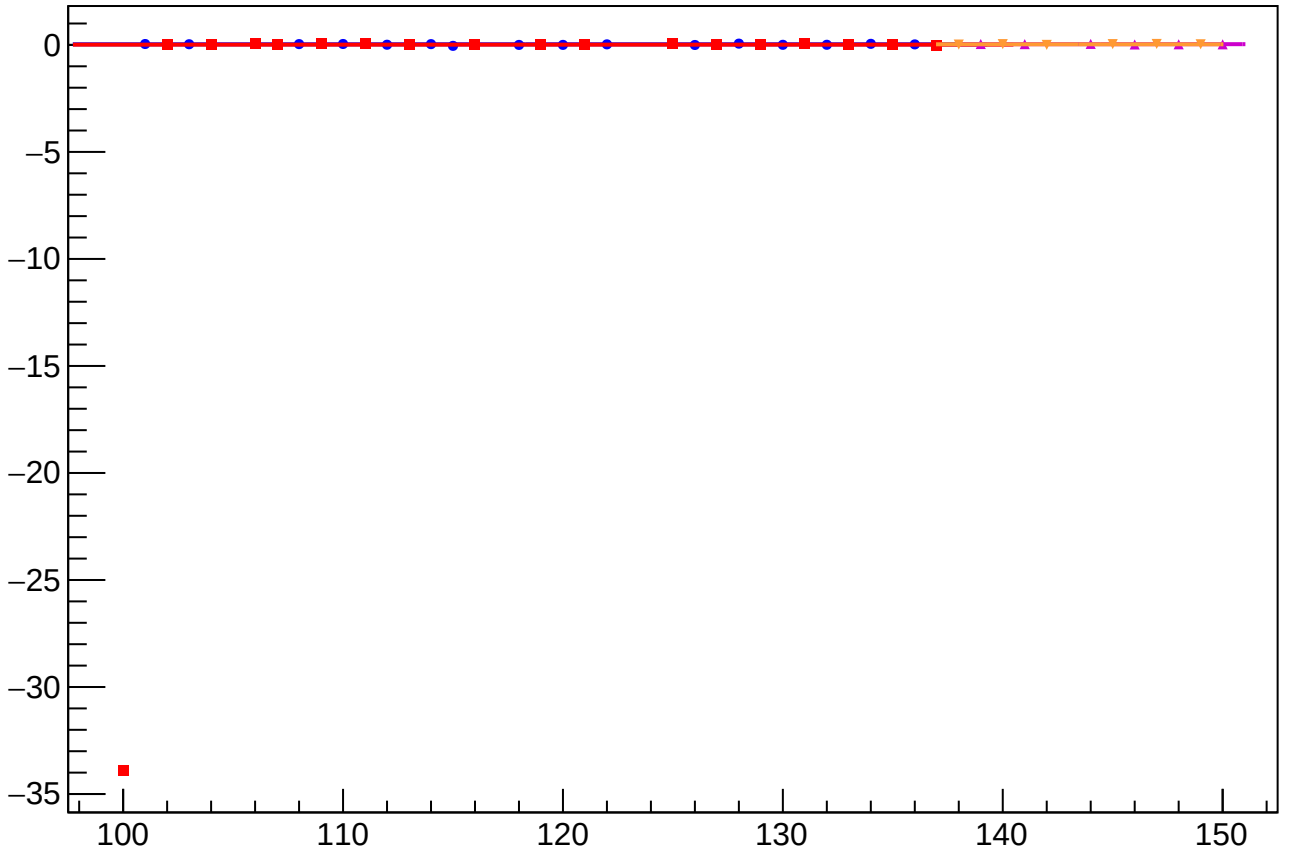
Right: -0.546+/-0.057 $\chi^2$/NDF: 77.6/33

In: -0.357+/-0.064 $\chi^2$/NDF:47.3/21

Out: -0.396+/-0.065 $\chi^2$/NDF:72.0/23

All: -0.376+/-0.046 $\chi^2$/NDF: 119.5/45


reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
16
14
12
10
8
6
4
2
0
−2
100
110
120
130
140
150
Right In: 0.118+/-0.084 χ²/NDF: 23.6/15
Left Out: 0.016+/-0.097 χ²/NDF:5.8/5
Right Out: 0.111+/-0.085 χ²/NDF: 29.0/17
Left In: 0.109+/-0.090 χ²/NDF:8.2/5
Left: 0.066+/-0.066 χ²/NDF: 14.5/11
Right: 0.115+/-0.060 χ²/NDF: 52.6/33
In: 0.114+/-0.061 χ²/NDF:31.8/21
Out: 0.070+/-0.064 χ²/NDF:35.4/23
All: 0.093+/-0.044 χ²/NDF: 67.4/45




Right In: 0.027+/-0.005 $\chi^2$/NDF: 14.7/15

Left Out: 0.028+/-0.005 $\chi^2$/NDF:7.3/5

Right Out: 0.012+/-0.005 $\chi^2$/NDF: 22262.0/17

Left In: 0.034+/-0.004 $\chi^2$/NDF:4.6/5

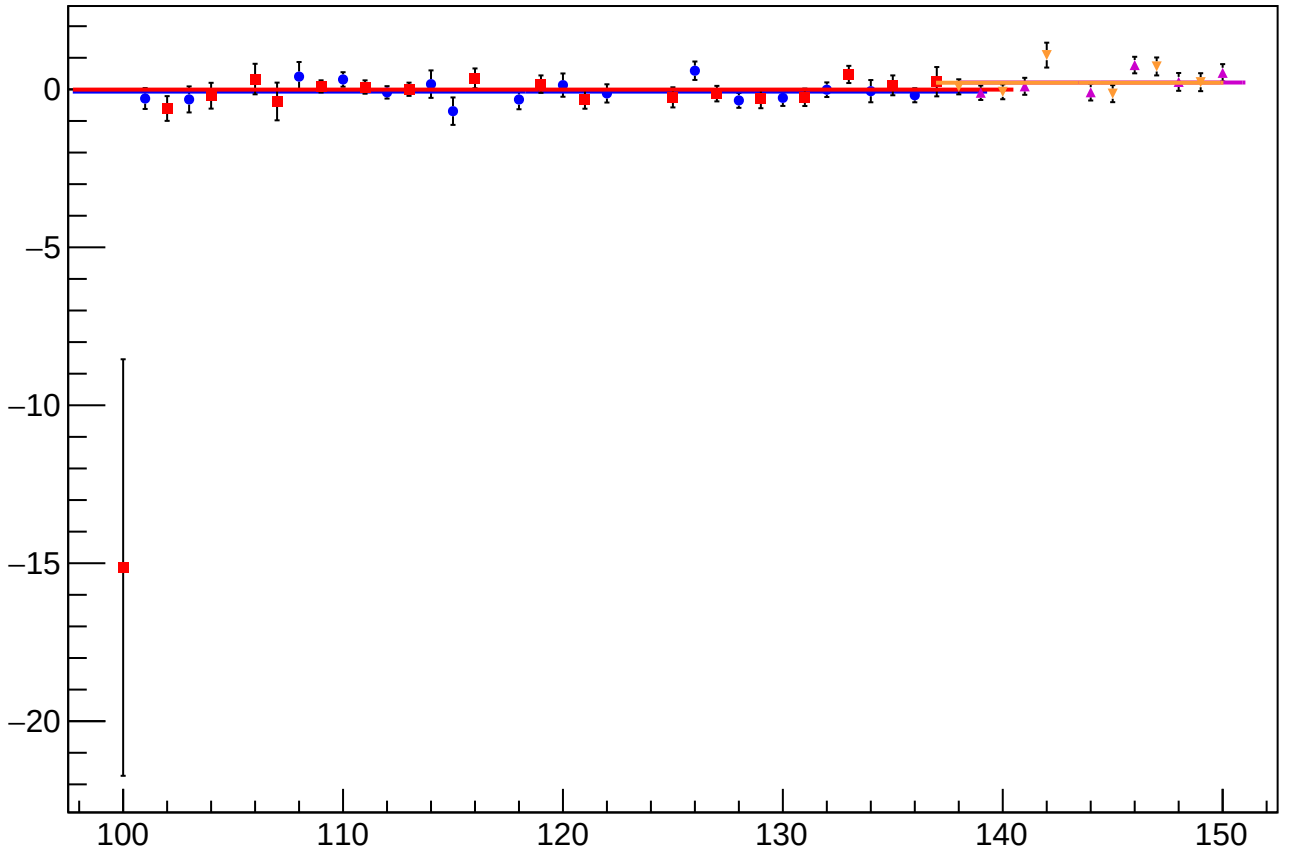
Left: 0.031+/-0.003 $\chi^2$/NDF: 12.8/11

Right: 0.020+/-0.003 $\chi^2$/NDF: 22281.9/33

In: 0.031+/-0.003 $\chi^2$/NDF:20.3/21

Out: 0.020+/-0.003 $\chi^2$/NDF:22275.3/23

All: 0.026+/-0.002 $\chi^2$/NDF: 22300.9/45




Right In: -0.070+/-0.071 $\chi^2$/NDF: 15.5/15

Left Out: 0.210+/-0.111 $\chi^2$/NDF:11.6/5

Right Out: -0.007+/-0.070 $\chi^2$/NDF: 18.1/17

Left In: 0.217+/-0.107 $\chi^2$/NDF:9.3/5

Left: 0.214+/-0.077 $\chi^2$/NDF: 20.9/11

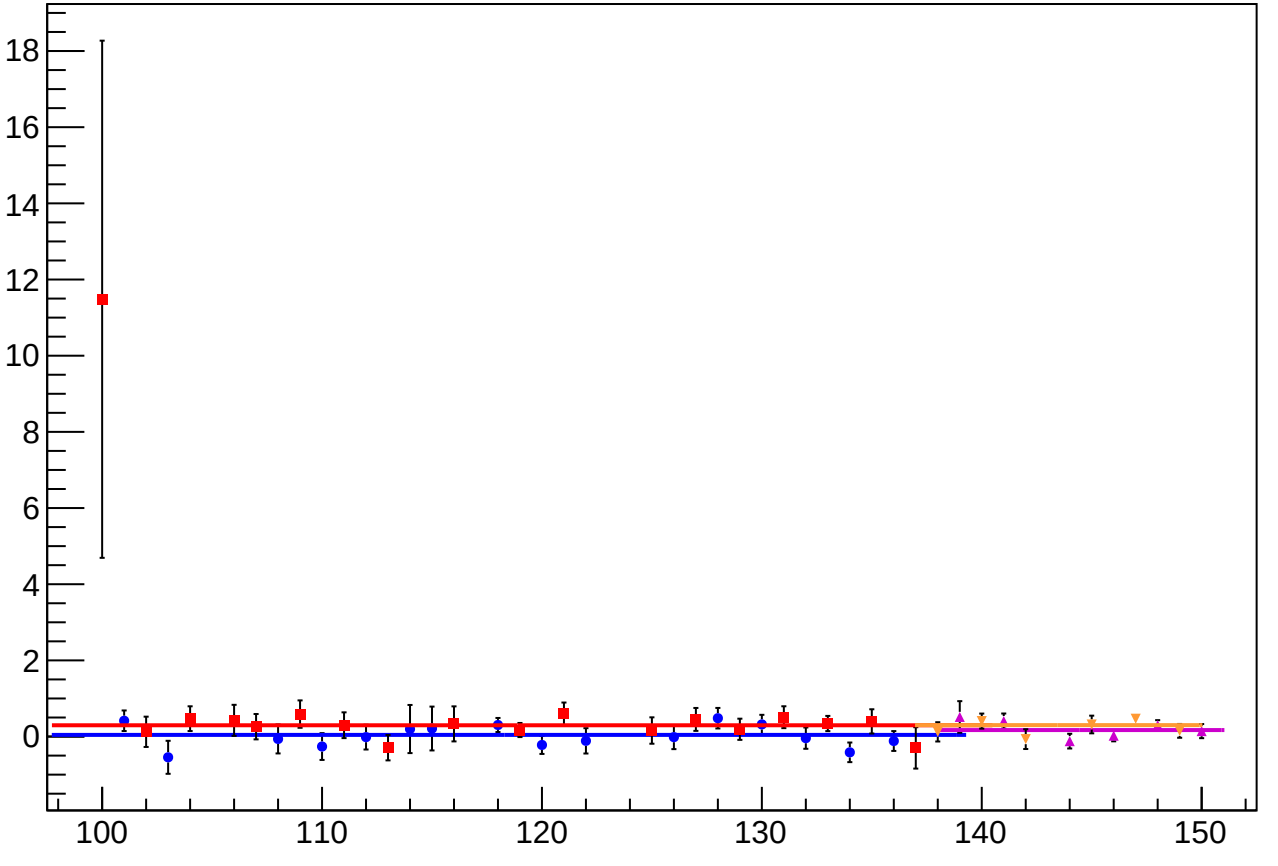
Right: -0.038+/-0.050 $\chi^2$/NDF: 34.1/33

In: 0.018+/-0.059 $\chi^2$/NDF:29.8/21

Out: 0.054+/-0.059 $\chi^2$/NDF:32.5/23

All: 0.036+/-0.042 $\chi^2$/NDF: 62.5/45

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.044+/-0.073 $\chi^2$/NDF: 15.7/15

Left Out: 0.300+/-0.078 $\chi^2$/NDF:5.1/5

Right Out: 0.296+/-0.074 $\chi^2$/NDF: 11.0/17

Left In: 0.170+/-0.073 $\chi^2$/NDF:6.3/5

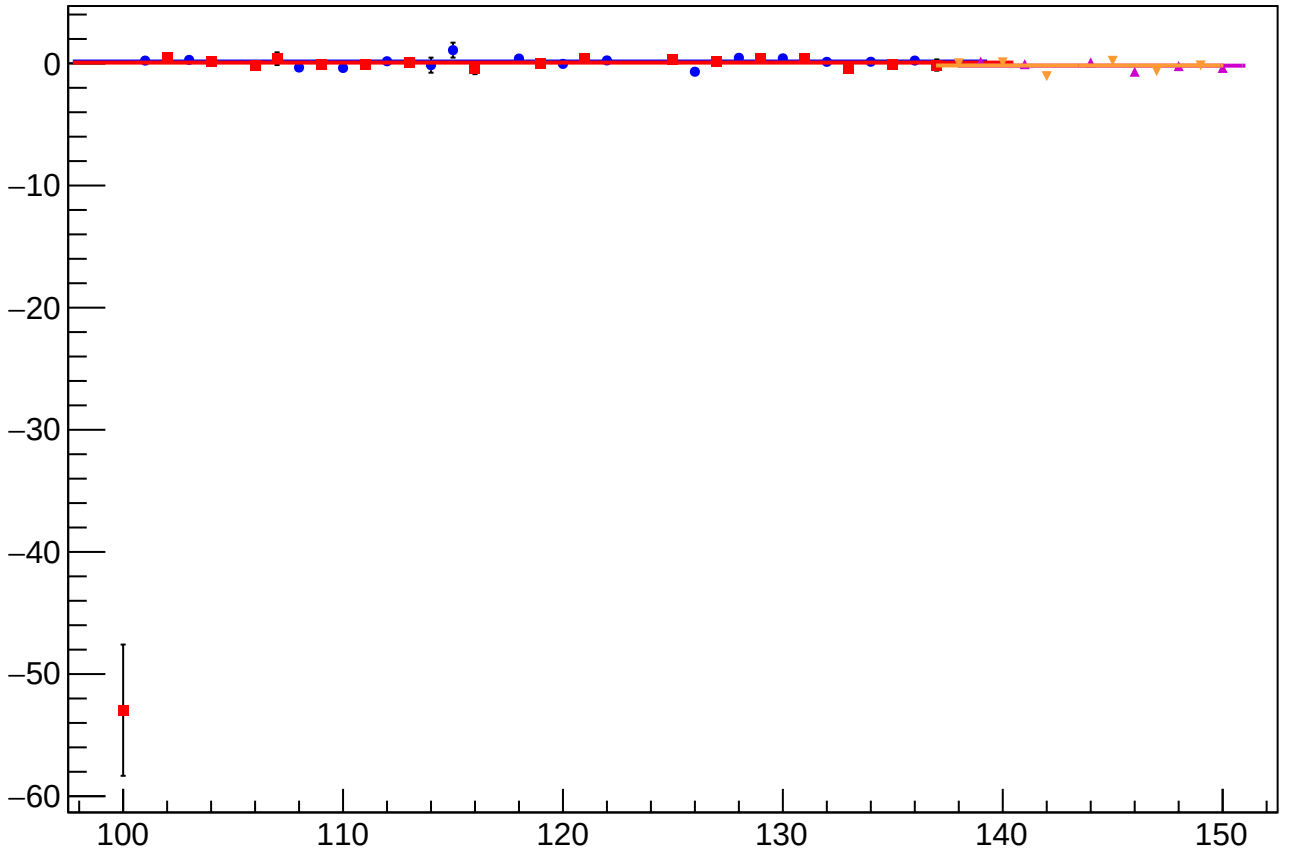
Left: 0.231+/-0.053 $\chi^2$/NDF: 12.9/11

Right: 0.169+/-0.052 $\chi^2$/NDF: 32.6/33

In: 0.107+/-0.052 $\chi^2$/NDF:23.5/21

Out: 0.298+/-0.054 $\chi^2$/NDF:16.1/23

All: 0.199+/-0.037 $\chi^2$/NDF: 46.2/45




Right In: 0.154+/-0.080 $\chi^2$/NDF: 15.6/15

Left Out: -0.169+/-0.111 $\chi^2$/NDF:11.2/5

Right Out: 0.065+/-0.081 $\chi^2$/NDF: 109.3/17

Left In: -0.186+/-0.105 $\chi^2$/NDF:7.5/5

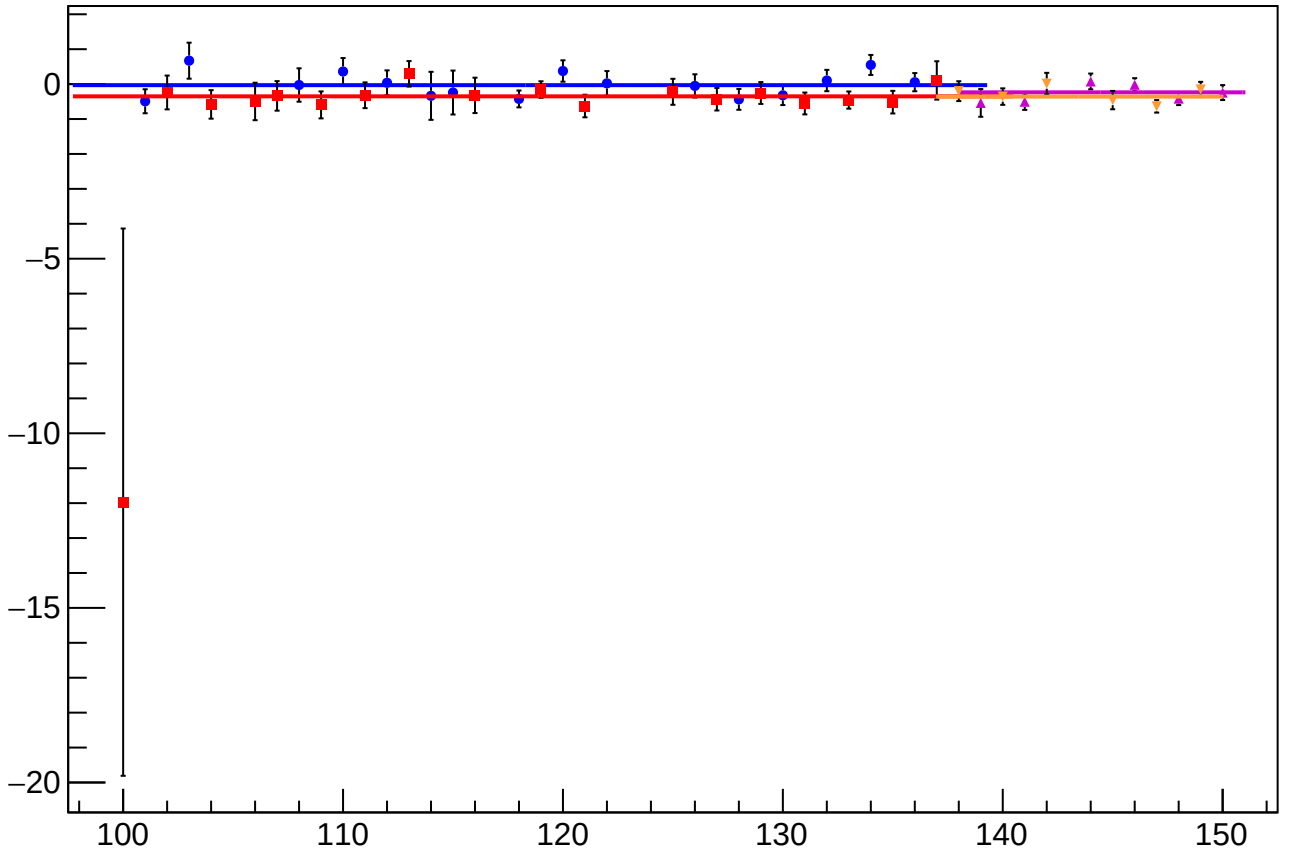
Left: -0.178+/-0.077 $\chi^2$/NDF: 18.7/11

Right: 0.110+/-0.057 $\chi^2$/NDF: 125.5/33

In: 0.030+/-0.064 $\chi^2$/NDF:29.7/21

Out: -0.016+/-0.065 $\chi^2$/NDF:123.4/23

All: 0.008+/-0.046 $\chi^2$/NDF: 153.4/45




Right In: -0.030+/-0.084 $\chi^2$/NDF: 16.8/15

Left Out: -0.358+/-0.096 $\chi^2$/NDF:5.2/5

Right Out: -0.350+/-0.085 $\chi^2$/NDF: 9.4/17

Left In: -0.236+/-0.090 $\chi^2$/NDF:6.1/5

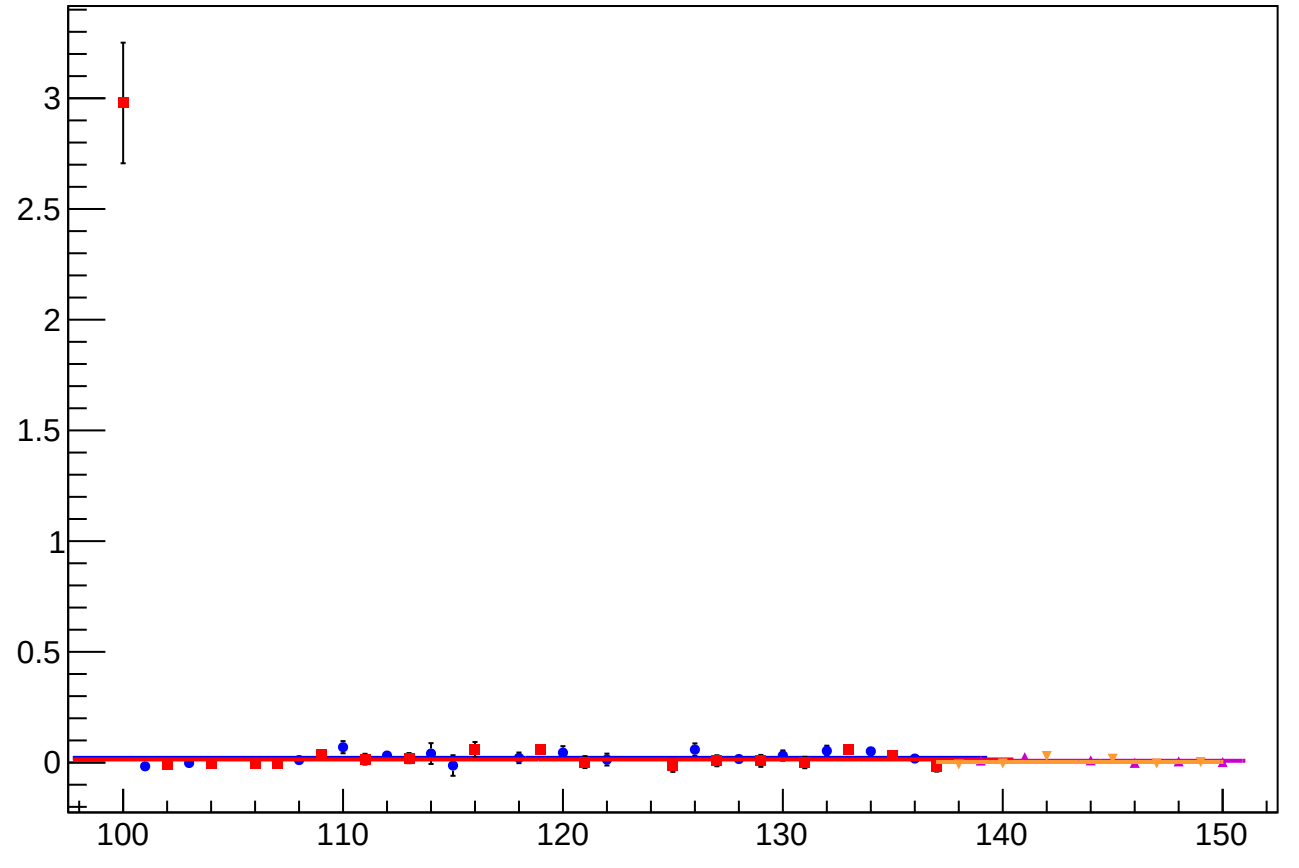
Left: -0.293+/-0.066 $\chi^2$/NDF: 12.1/11

Right: -0.188+/-0.060 $\chi^2$/NDF: 33.4/33

In: -0.125+/-0.061 $\chi^2$/NDF:25.6/21

Out: -0.354+/-0.064 $\chi^2$/NDF:14.6/23

All: -0.235+/-0.044 $\chi^2$/NDF: 46.9/45




Right In: 0.021+/-0.005 $\chi^2$/NDF: 22.5/15

Left Out: 0.003+/-0.005 $\chi^2$/NDF:6.5/5

Right Out: 0.014+/-0.005 $\chi^2$/NDF: 140.9/17

Left In: 0.008+/-0.004 $\chi^2$/NDF:3.3/5

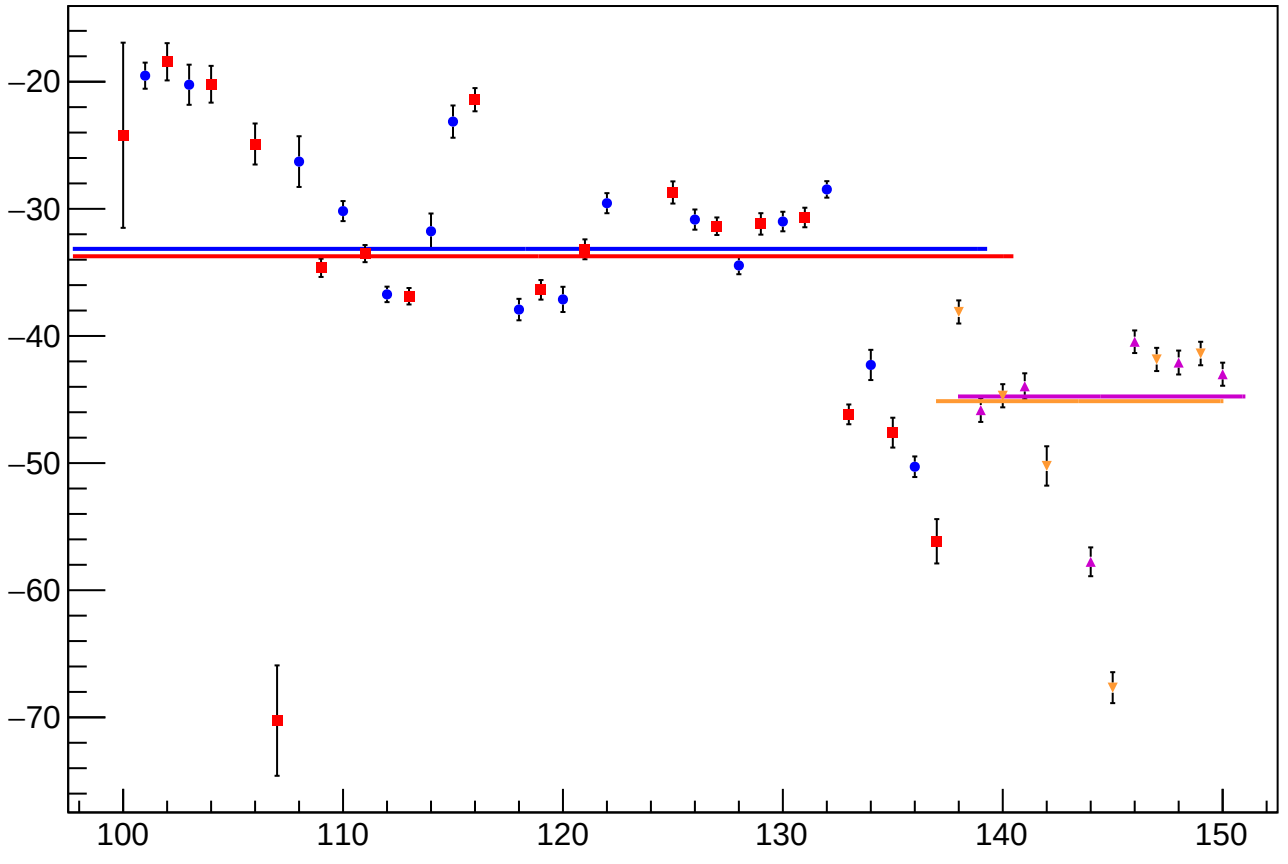
Left: 0.006+/-0.003 $\chi^2$/NDF: 10.5/11

Right: 0.018+/-0.003 $\chi^2$/NDF: 164.5/33

In: 0.014+/-0.003 $\chi^2$/NDF:30.0/21

Out: 0.008+/-0.003 $\chi^2$/NDF:150.3/23

All: 0.011+/-0.002 $\chi^2$/NDF: 181.9/45




Right In: -33.148+/-0.218 $\chi^2$/NDF: 1013.9/15

Left Out: -45.129+/-0.412 $\chi^2$/NDF:442.6/5

Right Out: -33.730+/-0.215 $\chi^2$/NDF: 1148.4/17

Left In: -44.759+/-0.392 $\chi^2$/NDF:168.7/5

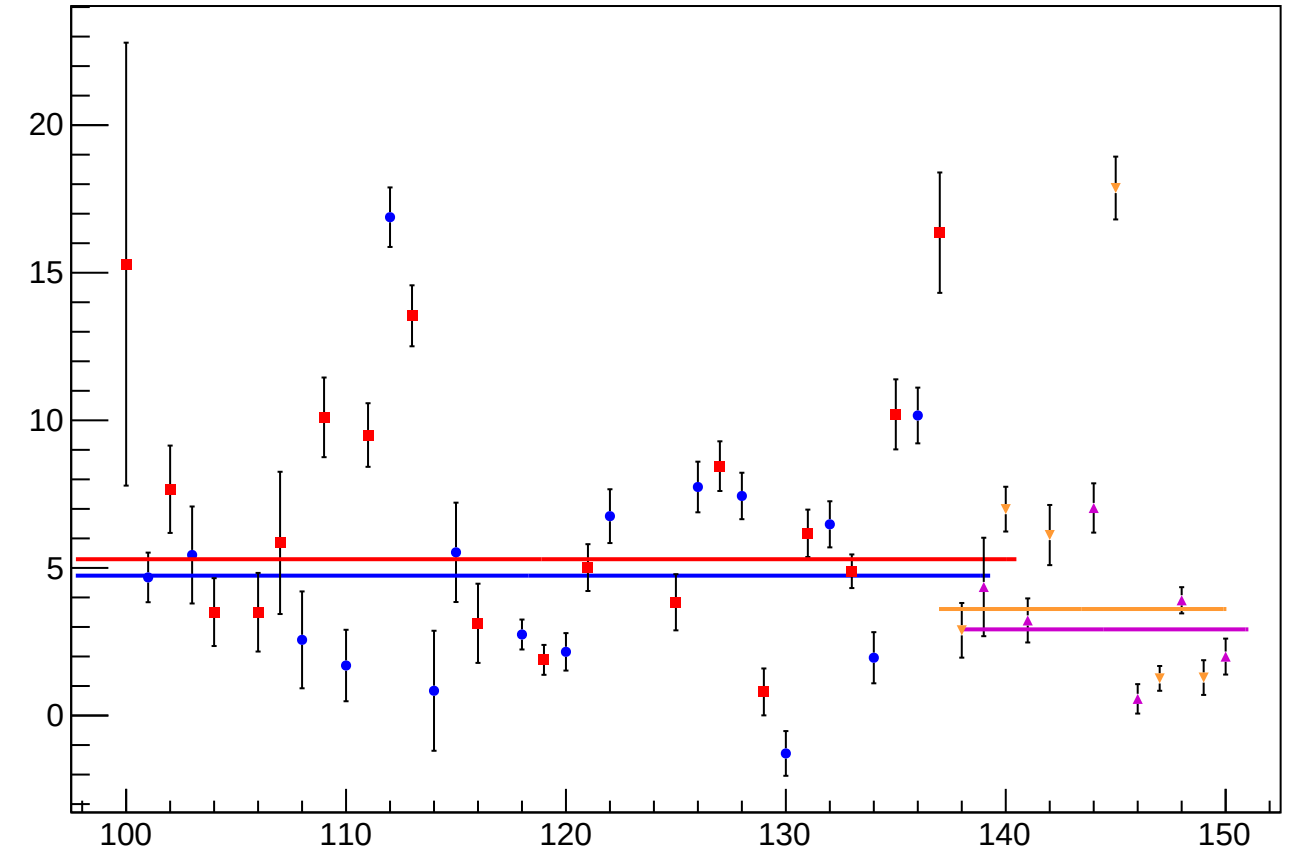
Left: -44.934+/-0.284 $\chi^2$/NDF: 611.7/11

Right: -33.443+/-0.153 $\chi^2$/NDF: 2166.0/33

In: -35.887+/-0.191 $\chi^2$/NDF:1852.1/21

Out: -36.163+/-0.191 $\chi^2$/NDF:2191.8/23

All: -36.025+/-0.135 $\chi^2$/NDF: 4044.9/45




Right In: 4.738+/-0.219 $\chi^2$/NDF: 329.6/15

Left Out: 3.608+/-0.274 $\chi^2$/NDF:253.1/5

Right Out: 5.295+/-0.223 $\chi^2$/NDF: 245.0/17

Left In: 2.919+/-0.255 $\chi^2$/NDF:54.7/5

Left: 3.239+/-0.187 $\chi^2$/NDF: 311.2/11

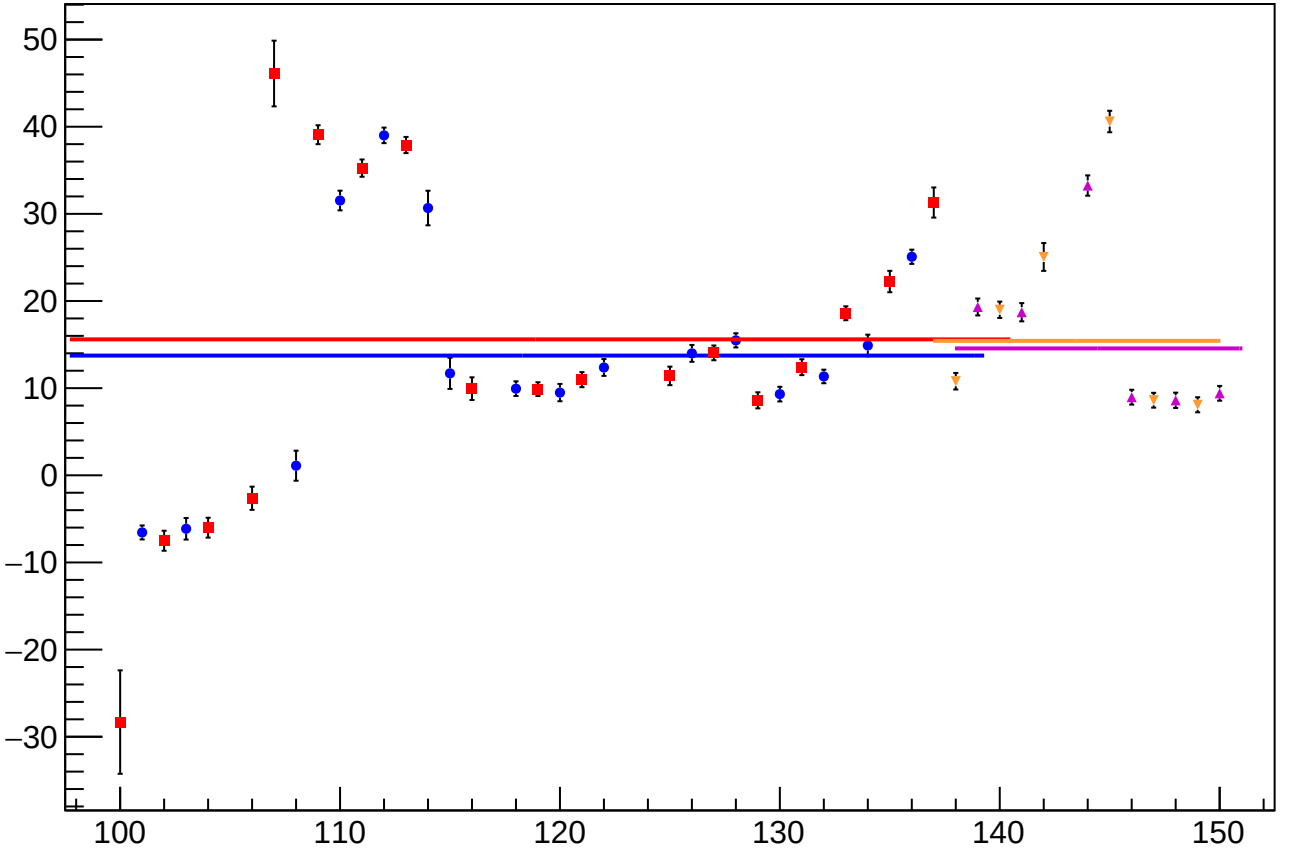
Right: 5.012+/-0.156 $\chi^2$/NDF: 577.8/33

In: 3.965+/-0.166 $\chi^2$/NDF:413.5/21

Out: 4.622+/-0.173 $\chi^2$/NDF:520.9/23

All: 4.280+/-0.120 $\chi^2$/NDF: 941.9/45

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 13.738+/-0.247 $\chi^2$/NDF: 2349.9/15

Left Out: 15.429+/-0.407 $\chi^2$/NDF:628.1/5

Right Out: 15.599+/-0.250 $\chi^2$/NDF: 2826.3/17

Left In: 14.560+/-0.384 $\chi^2$/NDF:422.0/5

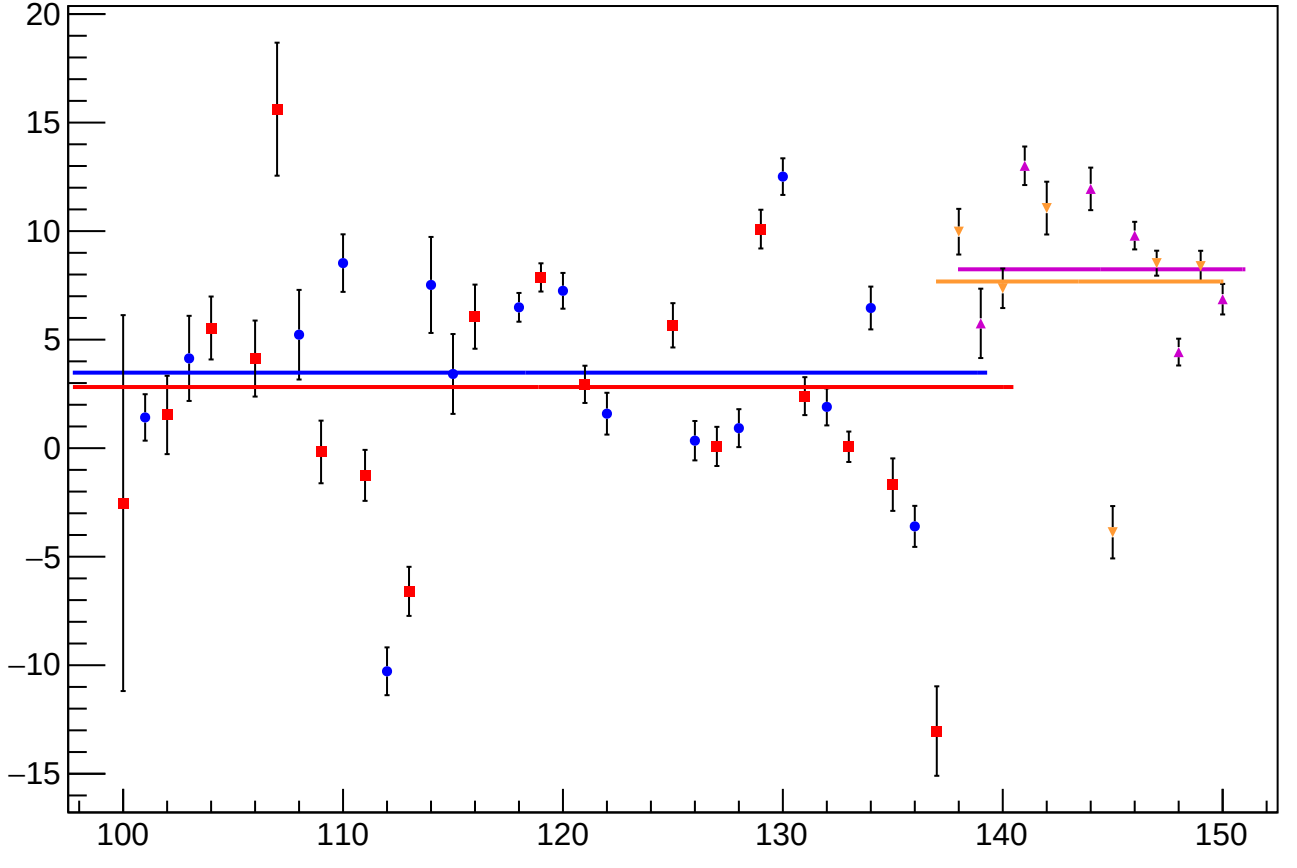
Left: 14.969+/-0.280 $\chi^2$/NDF: 1052.5/11

Right: 14.656+/-0.176 $\chi^2$/NDF: 5204.2/33

In: 13.978+/-0.208 $\chi^2$/NDF:2775.0/21

Out: 15.552+/-0.213 $\chi^2$/NDF:3454.6/23

All: 14.745+/-0.149 $\chi^2$/NDF: 6257.6/45




Right In: 3.479+/-0.254 $\chi^2$/NDF: 427.6/15

Left Out: 7.679+/-0.343 $\chi^2$/NDF:107.5/5

Right Out: 2.817+/-0.257 $\chi^2$/NDF: 345.3/17

Left In: 8.241+/-0.319 $\chi^2$/NDF:93.6/5

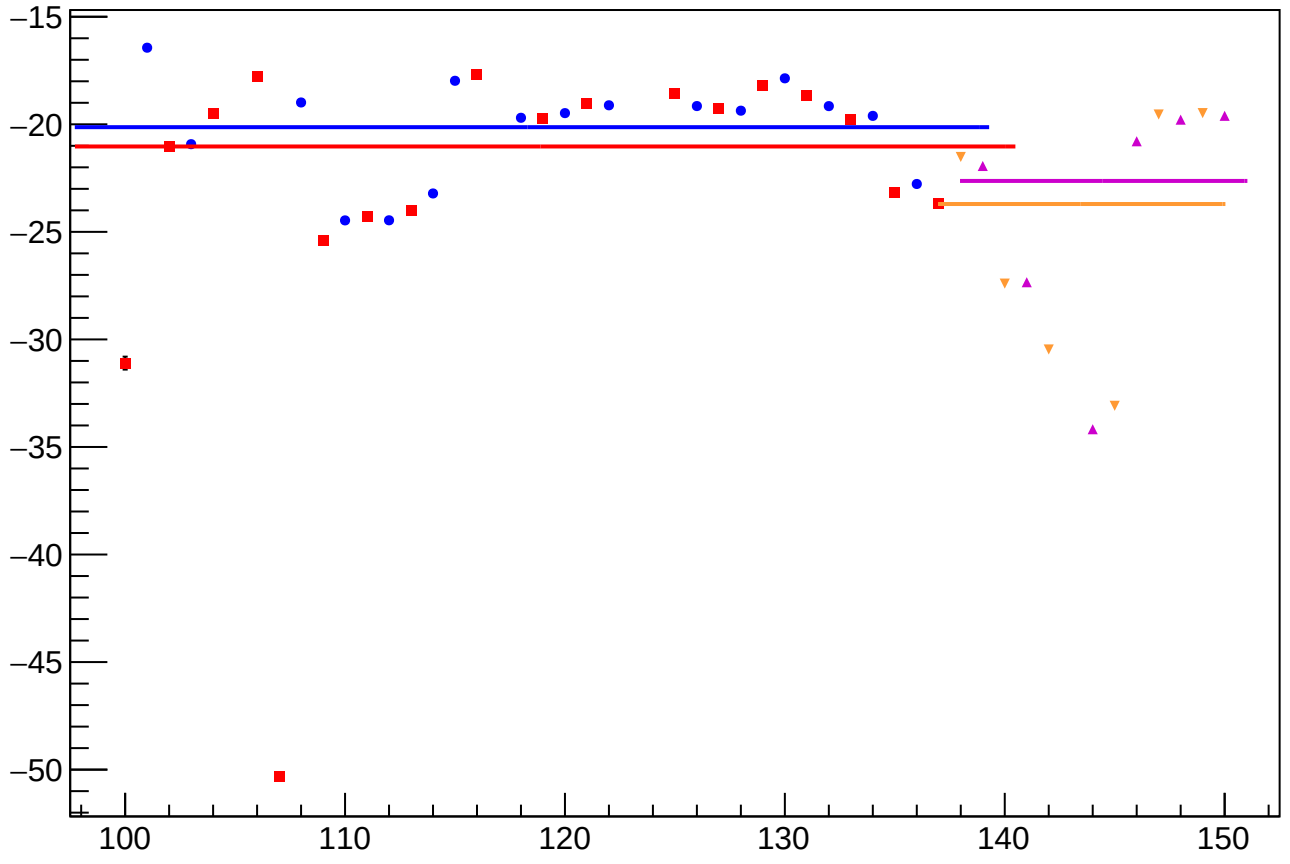
Left: 7.980+/-0.234 $\chi^2$/NDF: 202.5/11

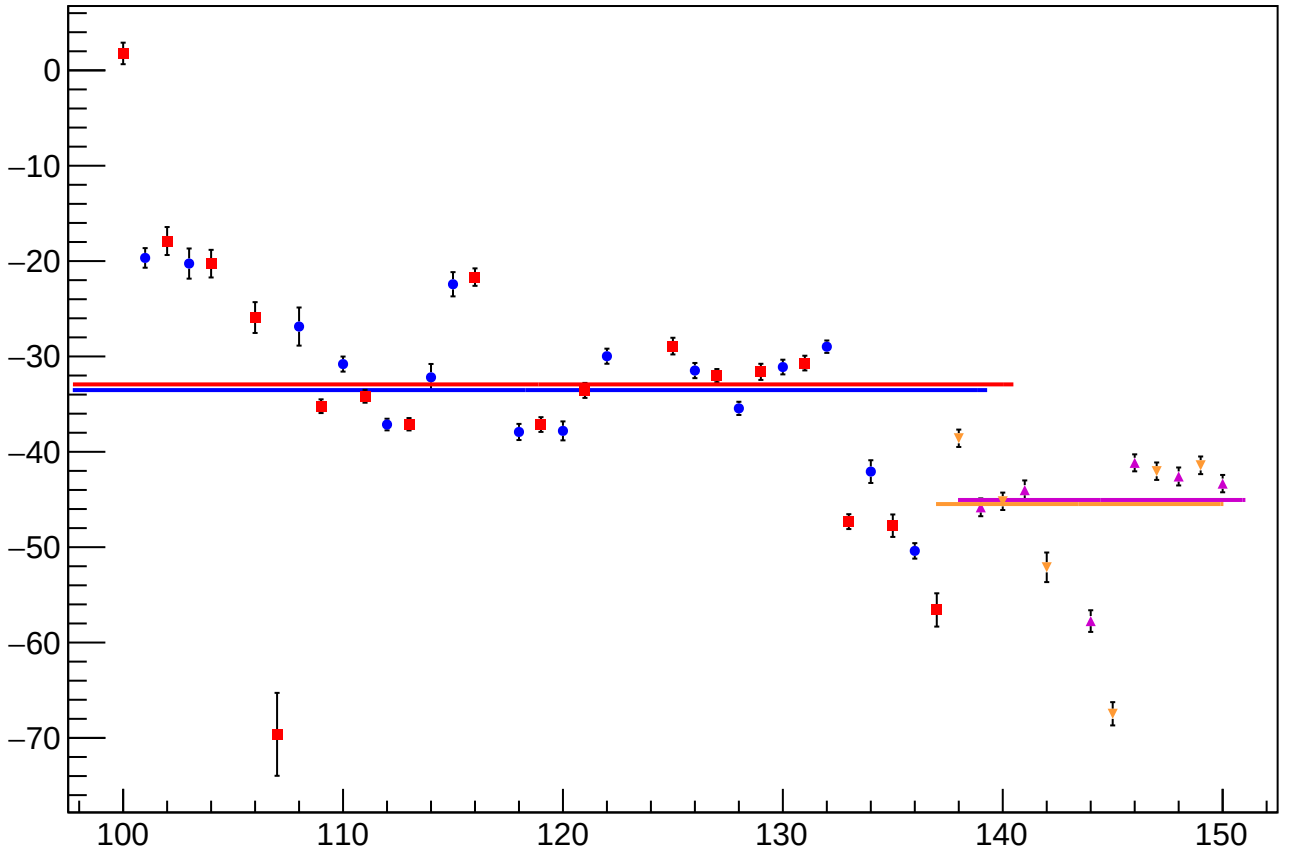
Right: 3.153+/-0.181 $\chi^2$/NDF: 776.3/33

In: 5.323+/-0.199 $\chi^2$/NDF:657.6/21

Out: 4.566+/-0.206 $\chi^2$/NDF:581.3/23

All: 4.958+/-0.143 $\chi^2$/NDF: 1245.9/45


reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected
−15
−20
−25
−30
−35
−40
−45
−50
100
110
120
130
140
150
Right In: -20.133+/-0.016 χ²/NDF: 19831.2/15
Left Out: -23.705+/-0.017 χ²/NDF:84793.8/5
Right Out: -21.031+/-0.016 χ²/NDF: 57523.6/17
Left In: -22.632+/-0.016 χ²/NDF:77627.5/5
Left: -23.116+/-0.012 χ²/NDF: 164566.9/11
Right: -20.570+/-0.011 χ²/NDF: 78882.9/33
In: -21.419+/-0.011 χ²/NDF:109985.4/21
Out: -22.311+/-0.012 χ²/NDF:154972.7/23
All: -21.837+/-0.008 χ²/NDF: 267957.8/45




Right In: -33.528+/-0.218 $\chi^2$/NDF: 1008.7/15

Left Out: -45.478+/-0.413 $\chi^2$/NDF:434.1/5

Right Out: -32.931+/-0.212 $\chi^2$/NDF: 2170.0/17

Left In: -45.050+/-0.393 $\chi^2$/NDF:156.2/5

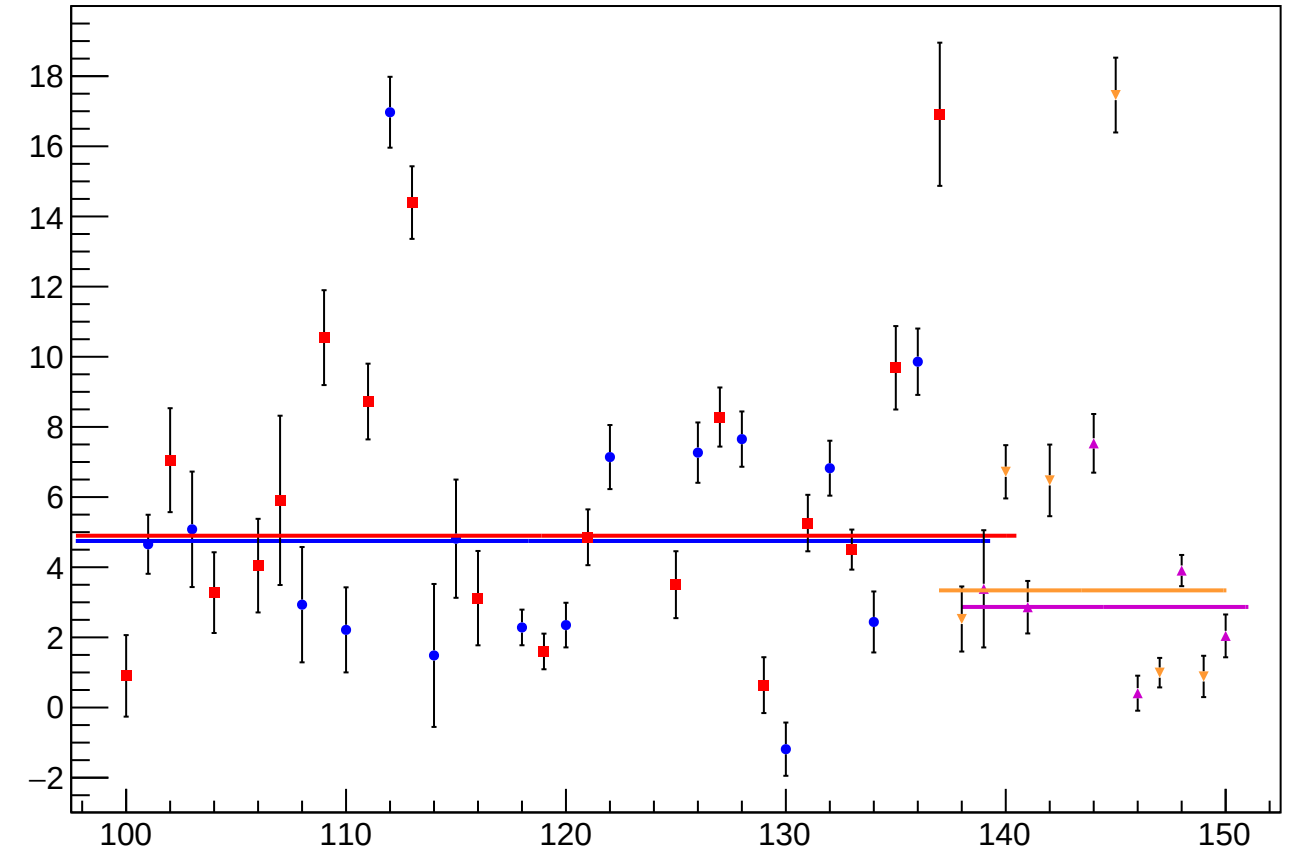
Left: -45.253+/-0.285 $\chi^2$/NDF: 590.9/11

Right: -33.220+/-0.152 $\chi^2$/NDF: 3182.6/33

In: -36.247+/-0.191 $\chi^2$/NDF:1821.4/21

Out: -35.538+/-0.188 $\chi^2$/NDF:3334.8/23

All: -35.888+/-0.134 $\chi^2$/NDF: 5163.2/45




Right In: 4.748+/-0.220 $\chi^2$/NDF: 325.7/15

Left Out: 3.340+/-0.275 $\chi^2$/NDF:253.7/5

Right Out: 4.898+/-0.220 $\chi^2$/NDF: 273.1/17

Left In: 2.868+/-0.255 $\chi^2$/NDF:62.7/5

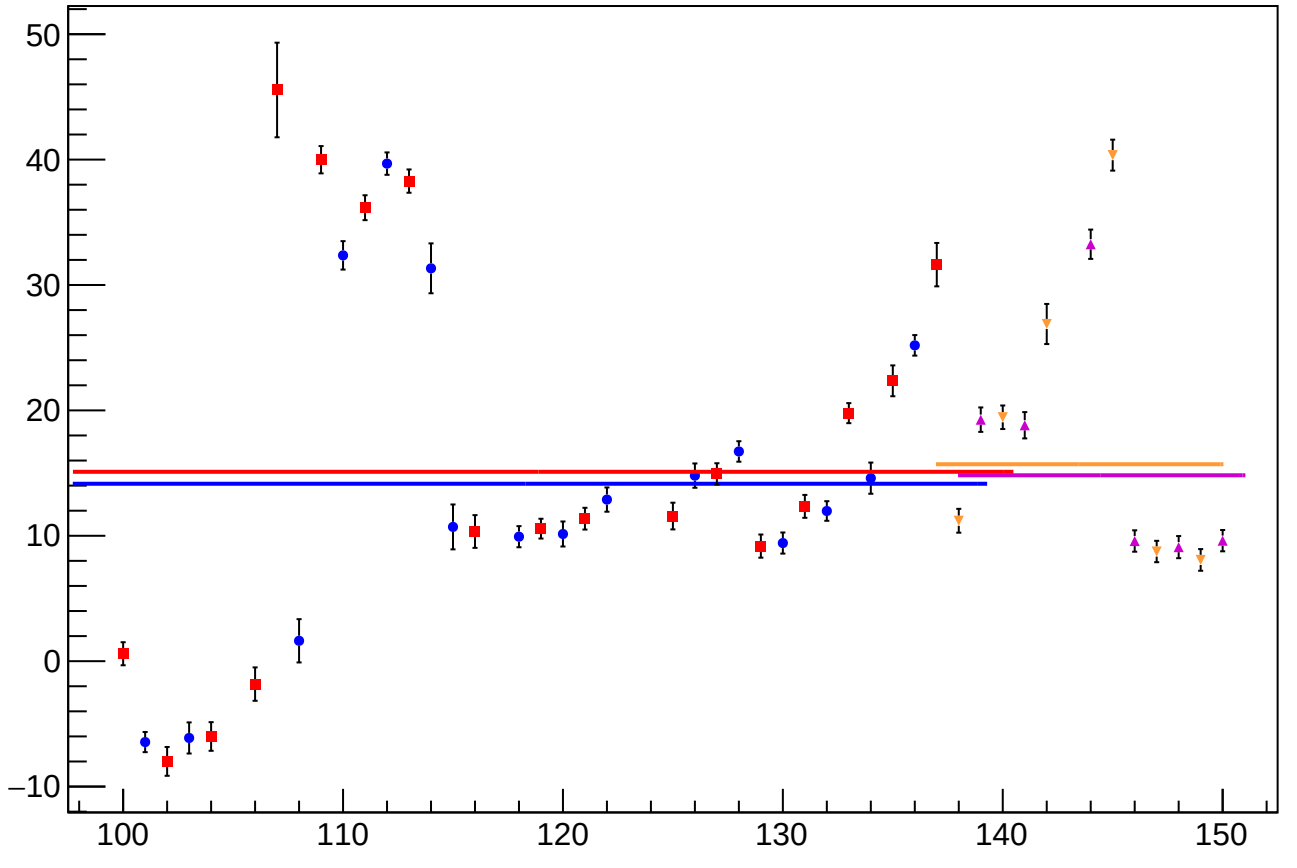
Left: 3.087+/-0.187 $\chi^2$/NDF: 318.1/11

Right: 4.823+/-0.155 $\chi^2$/NDF: 599.0/33

In: 3.949+/-0.167 $\chi^2$/NDF:419.6/21

Out: 4.289+/-0.172 $\chi^2$/NDF:546.4/23

All: 4.114+/-0.120 $\chi^2$/NDF: 968.1/45




Right In: 14.149+/-0.247 $\chi^2$/NDF: 2402.4/15

Left Out: 15.706+/-0.408 $\chi^2$/NDF:630.4/5

Right Out: 15.103+/-0.242 $\chi^2$/NDF: 3102.3/17

Left In: 14.826+/-0.385 $\chi^2$/NDF:401.3/5

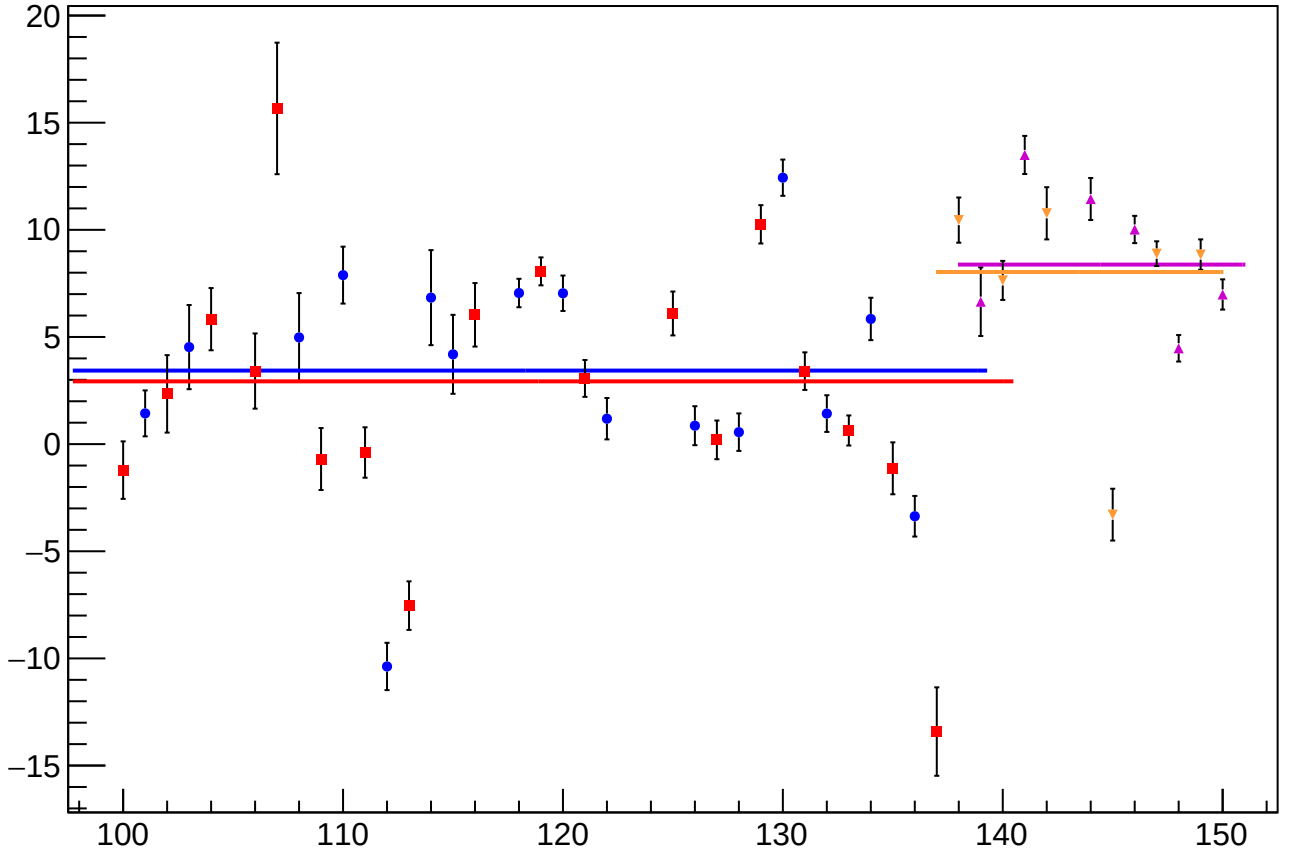
Left: 15.241+/-0.280 $\chi^2$/NDF: 1034.1/11

Right: 14.636+/-0.173 $\chi^2$/NDF: 5512.3/33

In: 14.346+/-0.208 $\chi^2$/NDF:2805.8/21

Out: 15.260+/-0.208 $\chi^2$/NDF:3734.3/23

All: 14.803+/-0.147 $\chi^2$/NDF: 6549.7/45




Right In: 3.432+/-0.254 $\chi^2$/NDF: 424.0/15

Left Out: 8.033+/-0.344 $\chi^2$/NDF:101.7/5

Right Out: 2.929+/-0.253 $\chi^2$/NDF: 367.7/17

Left In: 8.378+/-0.320 $\chi^2$/NDF:94.4/5

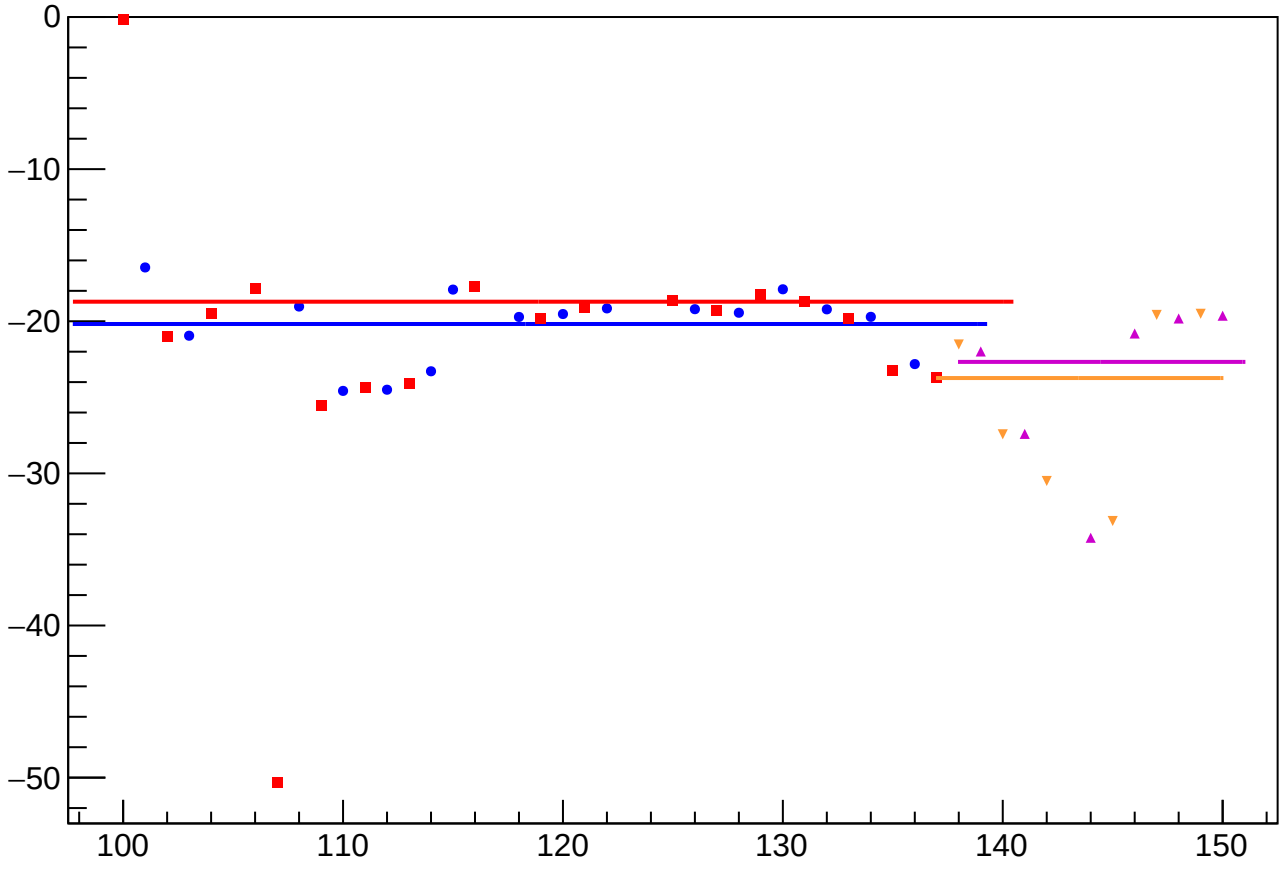
Left: 8.218+/-0.234 $\chi^2$/NDF: 196.7/11

Right: 3.179+/-0.179 $\chi^2$/NDF: 793.7/33

In: 5.348+/-0.199 $\chi^2$/NDF:665.0/21

Out: 4.725+/-0.204 $\chi^2$/NDF:612.3/23

All: 5.044+/-0.142 $\chi^2$/NDF: 1282.1/45




Right In: -20.180+/-0.016 $\chi^2$/NDF: 19856.9/15

Left Out: -23.733+/-0.017 $\chi^2$/NDF:84599.1/5

Right Out: -18.714+/-0.016 $\chi^2$/NDF: 234667.0/17

Left In: -22.671+/-0.016 $\chi^2$/NDF:77744.7/5

Left: -23.150+/-0.012 $\chi^2$/NDF: 164436.1/11

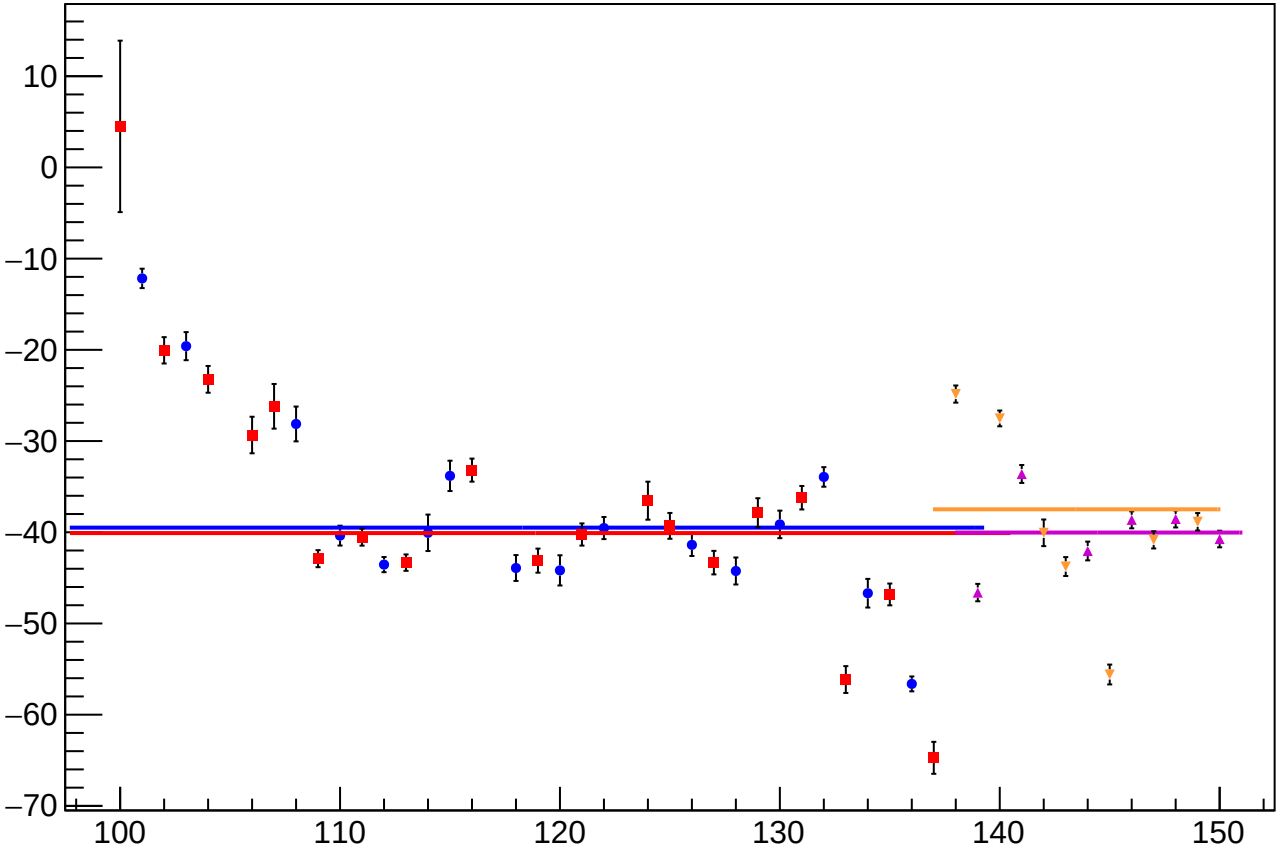
Right: -19.425+/-0.011 $\chi^2$/NDF: 258824.1/33

In: -21.462+/-0.011 $\chi^2$/NDF:109991.5/21

Out: -20.974+/-0.012 $\chi^2$/NDF:366087.2/23

All: -21.226+/-0.008 $\chi^2$/NDF: 476999.3/45

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -39.493+/-0.311 $\chi^2$/NDF: 1417.1/15

Left Out: -37.483+/-0.380 $\chi^2$/NDF:644.4/6

Right Out: -40.090+/-0.307 $\chi^2$/NDF: 834.9/18

Left In: -40.032+/-0.390 $\chi^2$/NDF:99.5/5

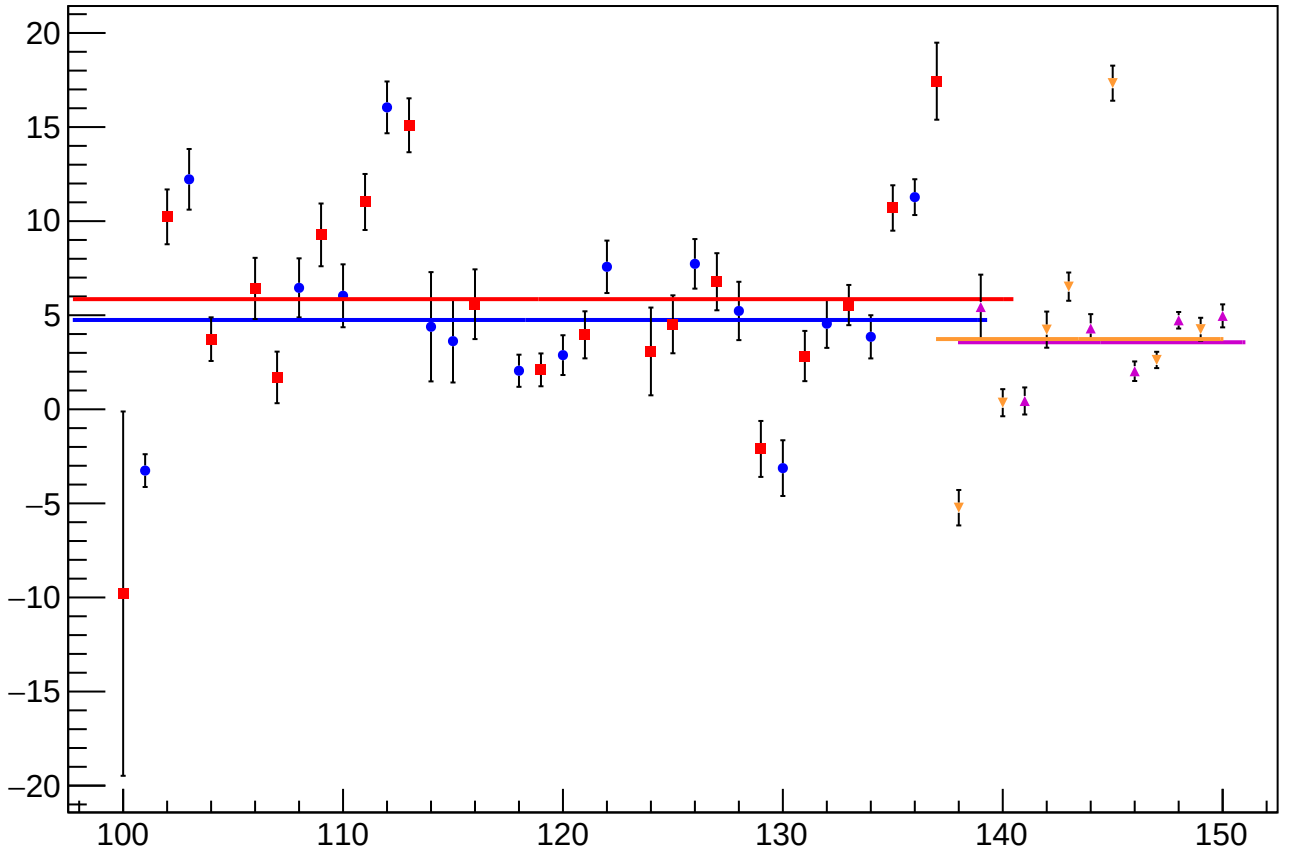
Left: -38.725+/-0.272 $\chi^2$/NDF: 765.9/12

Right: -39.795+/-0.218 $\chi^2$/NDF: 2253.9/34

In: -39.702+/-0.243 $\chi^2$/NDF:1517.7/21

Out: -39.059+/-0.239 $\chi^2$/NDF:1507.8/25

All: -39.375+/-0.170 $\chi^2$/NDF: 3029.1/47




Right In: 4.747+/-0.316 $\chi^2$/NDF: 273.8/15

Left Out: 3.733+/-0.257 $\chi^2$/NDF:346.7/6

Right Out: 5.854+/-0.324 $\chi^2$/NDF: 187.6/18

Left In: 3.563+/-0.254 $\chi^2$/NDF:42.0/5

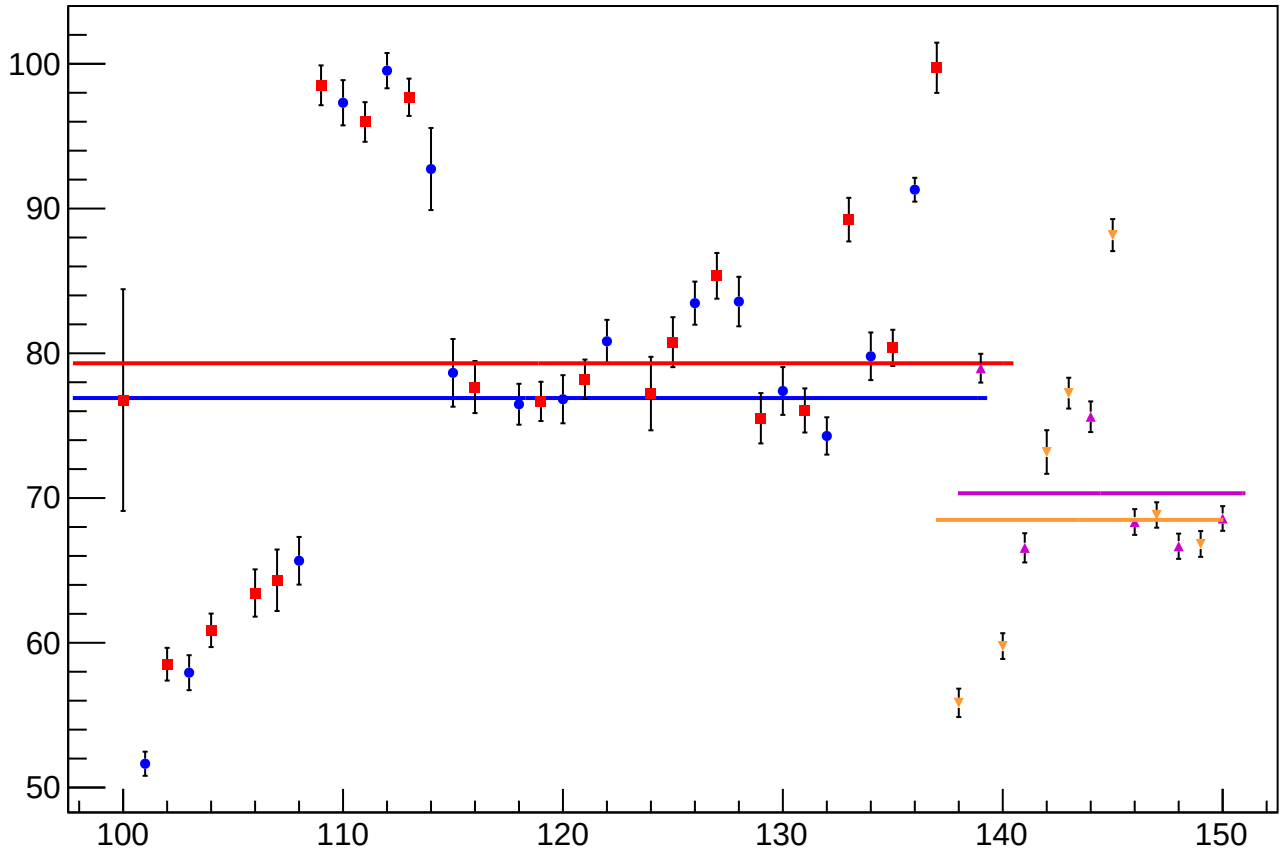
Left: 3.646+/-0.181 $\chi^2$/NDF: 388.9/12

Right: 5.287+/-0.226 $\chi^2$/NDF: 467.4/34

In: 4.027+/-0.198 $\chi^2$/NDF:324.4/21

Out: 4.554+/-0.201 $\chi^2$/NDF:560.6/25

All: 4.285+/-0.141 $\chi^2$/NDF: 888.5/47




Right In: 76.909+/-0.337 $\chi^2$/NDF: 2116.0/15

Left Out: 68.492+/-0.378 $\chi^2$/NDF:658.2/6

Right Out: 79.311+/-0.348 $\chi^2$/NDF: 1496.4/18

Left In: 70.331+/-0.382 $\chi^2$/NDF:141.0/5

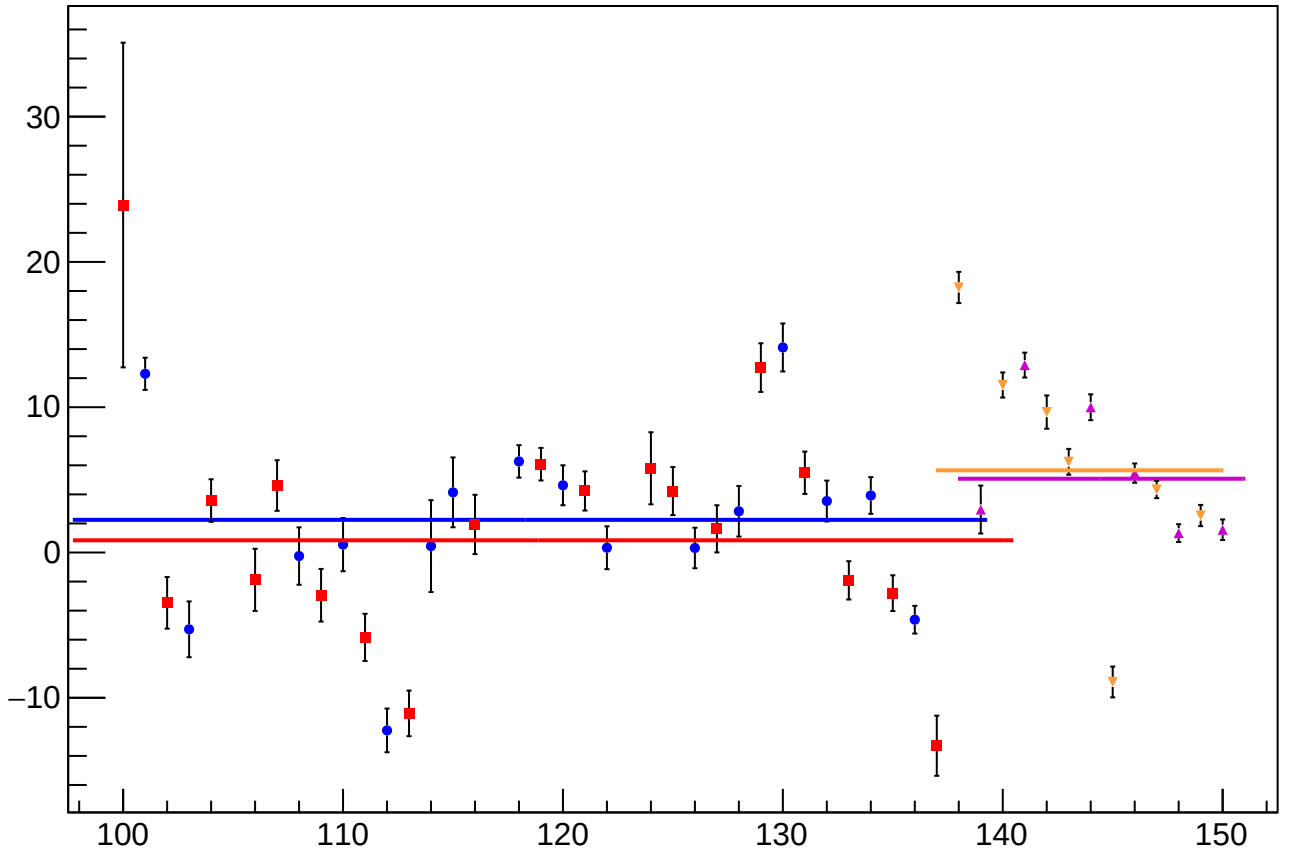
Left: 69.401+/-0.269 $\chi^2$/NDF: 810.9/12

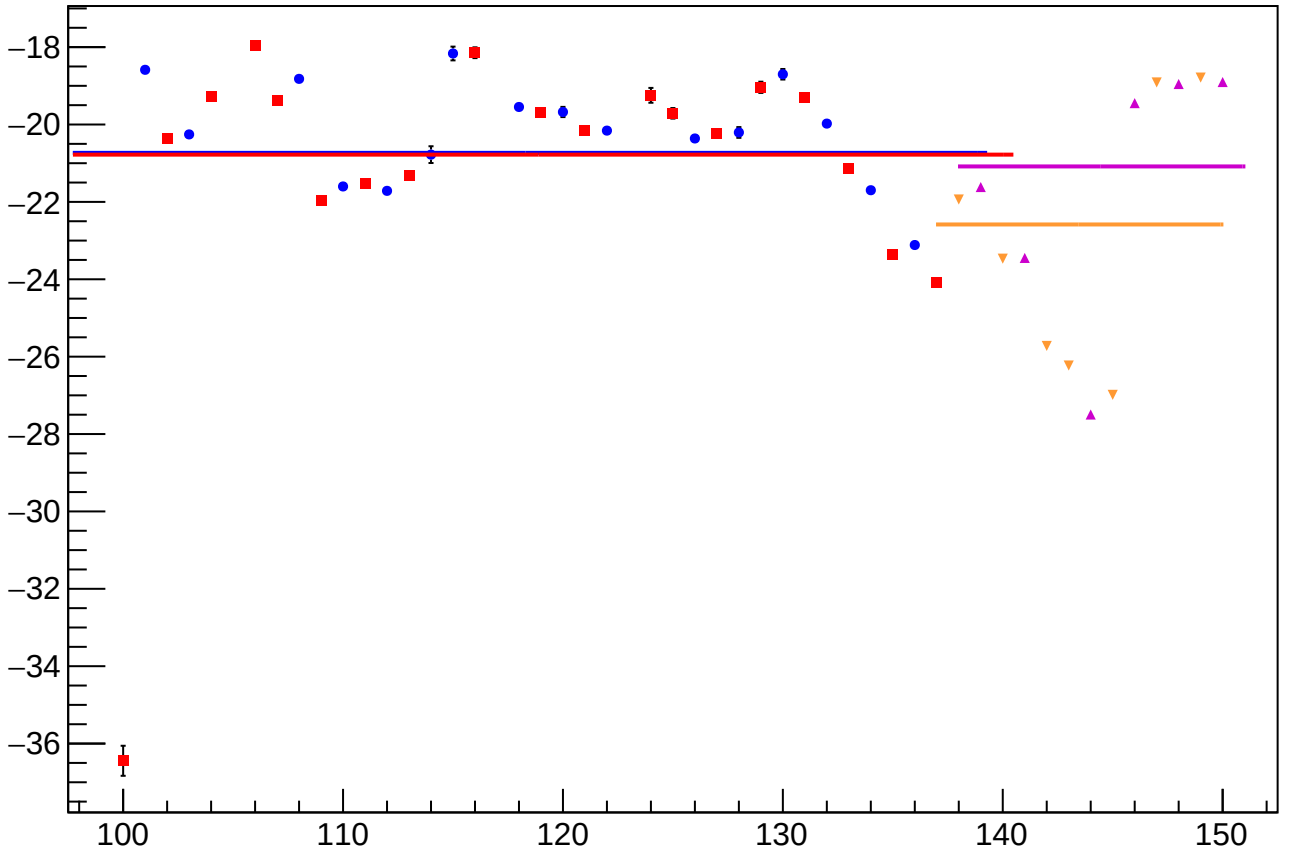
Right: 78.071+/-0.242 $\chi^2$/NDF: 3636.9/34

In: 74.034+/-0.253 $\chi^2$/NDF:2423.7/21

Out: 74.352+/-0.256 $\chi^2$/NDF:2597.9/25

All: 74.191+/-0.180 $\chi^2$/NDF: 5022.3/47


reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
30
20
10
0
−10
100
110
120
130
140
150
Right In: 2.248+/-0.363 χ²/NDF: 319.6/15
Left Out: 5.656+/-0.319 χ²/NDF:407.9/6
Right Out: 0.840+/-0.372 χ²/NDF: 256.2/18
Left In: 5.078+/-0.317 χ²/NDF:178.3/5
Left: 5.365+/-0.225 χ²/NDF: 587.9/12
Right: 1.561+/-0.260 χ²/NDF: 583.2/34
In: 3.853+/-0.239 χ²/NDF:532.4/21
Out: 3.616+/-0.242 χ²/NDF:760.7/25
All: 3.736+/-0.170 χ²/NDF: 1293.6/47




Right In: -20.732+/-0.019 $\chi^2$/NDF: 7634.1/15

Left Out: -22.583+/-0.016 $\chi^2$/NDF:39315.8/6

Right Out: -20.778+/-0.020 $\chi^2$/NDF: 9426.6/18

Left In: -21.083+/-0.016 $\chi^2$/NDF:31252.4/5

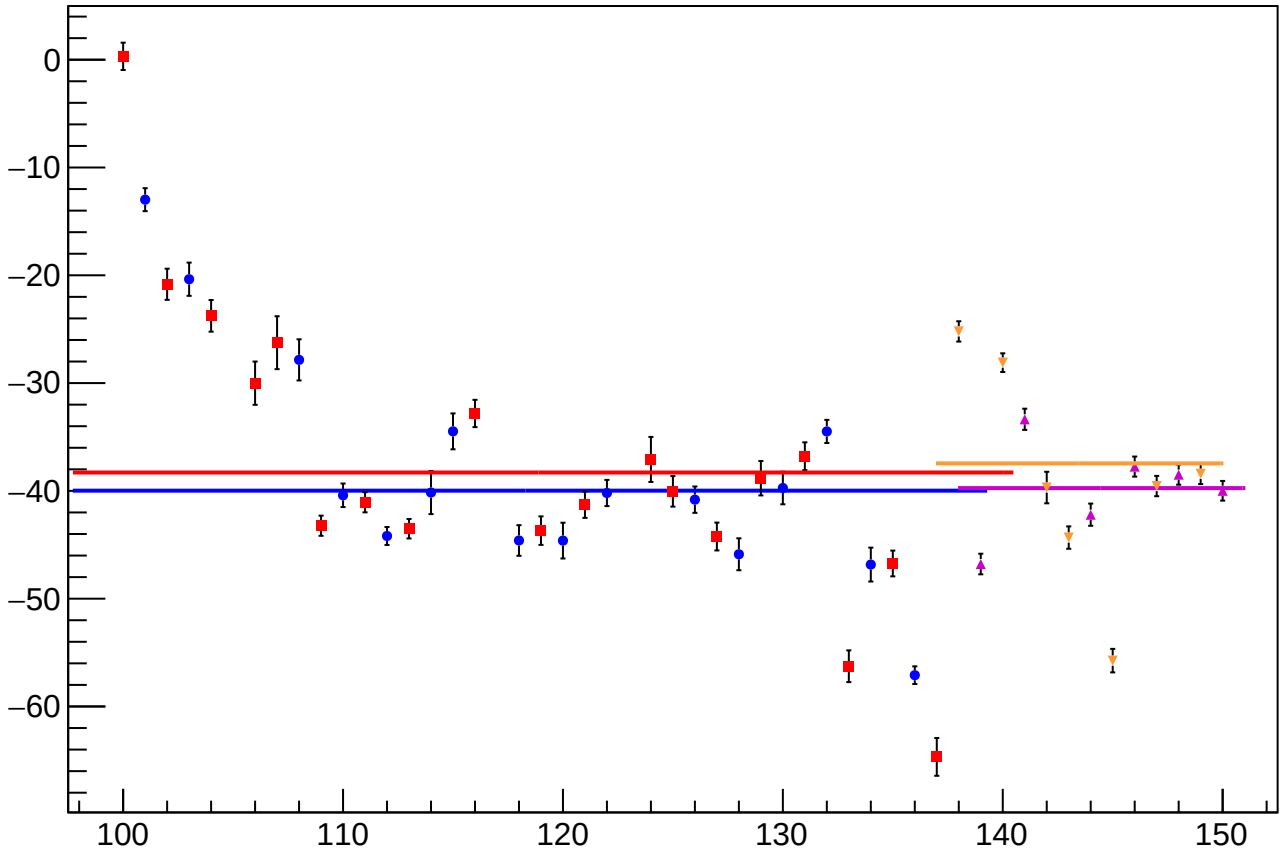
Left: -21.815+/-0.011 $\chi^2$/NDF: 75121.6/12

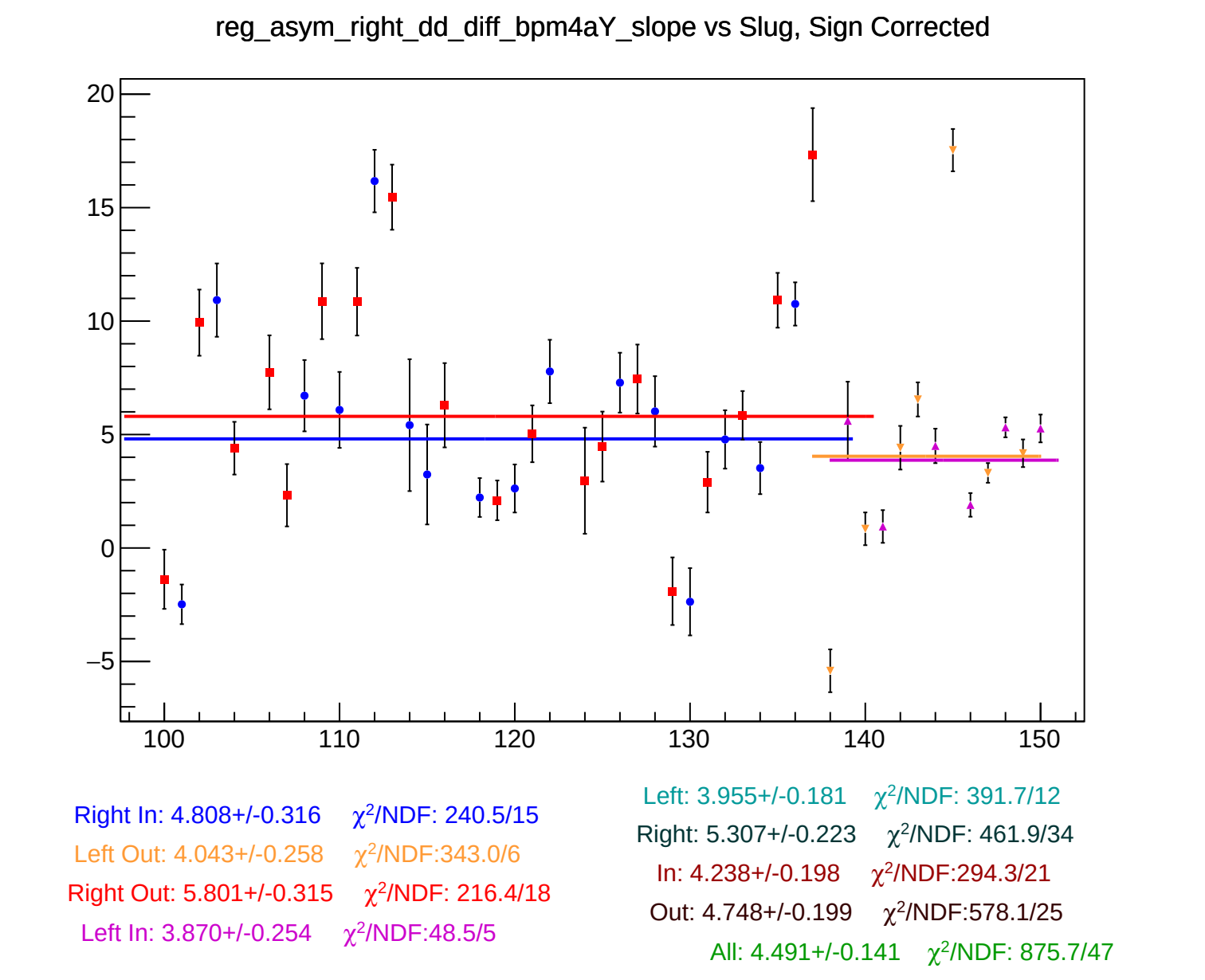
Right: -20.755+/-0.014 $\chi^2$/NDF: 17063.4/34

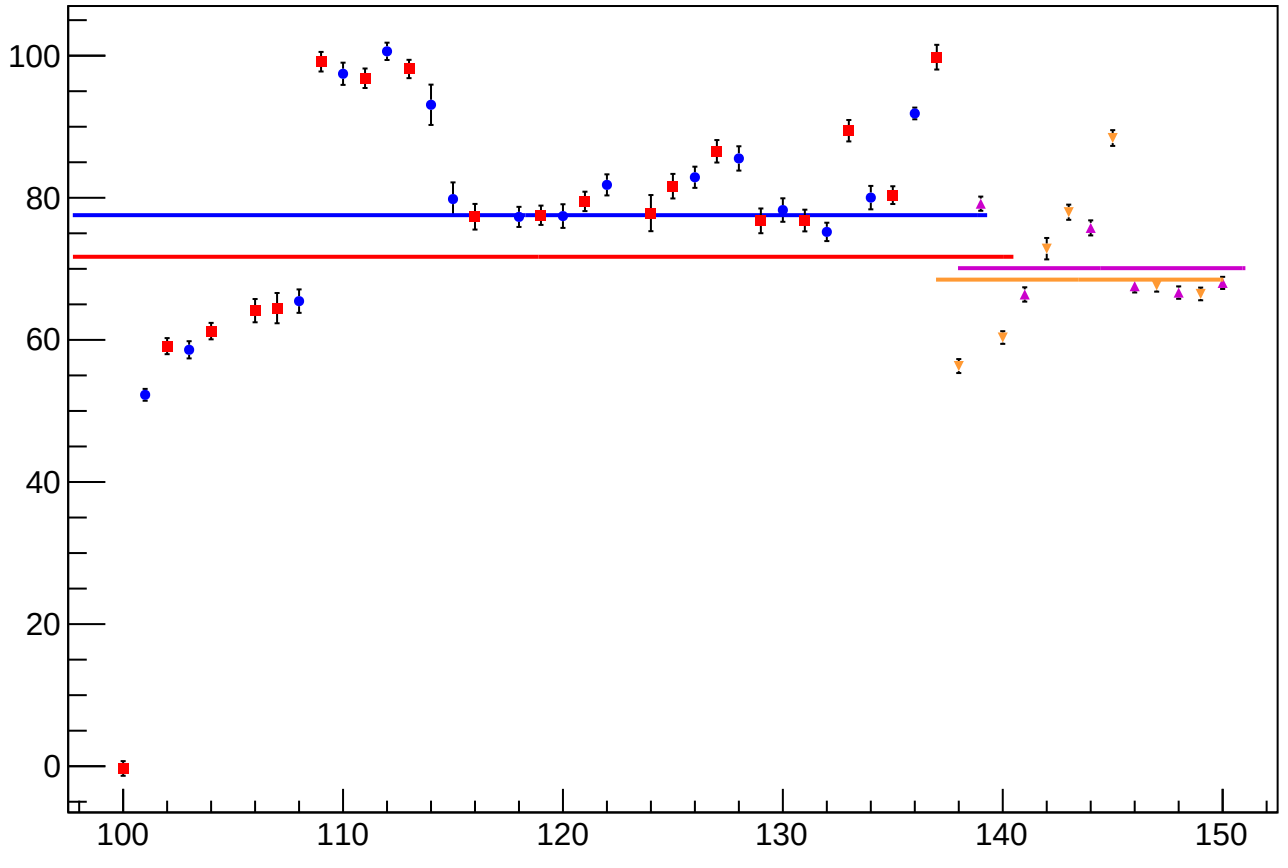
In: -20.947+/-0.012 $\chi^2$/NDF:39085.7/21

Out: -21.892+/-0.012 $\chi^2$/NDF:53672.5/25

All: -21.405+/-0.009 $\chi^2$/NDF: 95703.4/47


reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
100
110
120
130
140
150
Right In: -39.979+/-0.311 χ²/NDF: 1398.4/15
Left Out: -37.451+/-0.380 χ²/NDF:619.1/6
Right Out: -38.295+/-0.299 χ²/NDF: 1773.8/18
Left In: -39.741+/-0.390 χ²/NDF:108.4/5
Left: -38.566+/-0.272 χ²/NDF: 745.2/12
Right: -39.104+/-0.216 χ²/NDF: 3187.4/34
In: -39.887+/-0.243 χ²/NDF:1507.0/21
Out: -37.972+/-0.235 χ²/NDF:2395.9/25
All: -38.897+/-0.169 χ²/NDF: 3935.0/47


reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
20
15
10
5
0
−5
100
110
120
130
140
150
Right In: 4.808+/-0.316 χ²/NDF: 240.5/15
Left Out: 4.043+/-0.258 χ²/NDF:343.0/6
Right Out: 5.801+/-0.315 χ²/NDF: 216.4/18
Left In: 3.870+/-0.254 χ²/NDF:48.5/5
Left: 3.955+/-0.181 χ²/NDF: 391.7/12
Right: 5.307+/-0.223 χ²/NDF: 461.9/34
In: 4.238+/-0.198 χ²/NDF:294.3/21
Out: 4.748+/-0.199 χ²/NDF:578.1/25
All: 4.491+/-0.141 χ²/NDF: 875.7/47




Right In: 77.554+/-0.337 $\chi^2$/NDF: 2118.3/15

Left Out: 68.483+/-0.379 $\chi^2$/NDF:652.6/6

Right Out: 71.699+/-0.330 $\chi^2$/NDF: 6903.5/18

Left In: 70.094+/-0.383 $\chi^2$/NDF:154.2/5

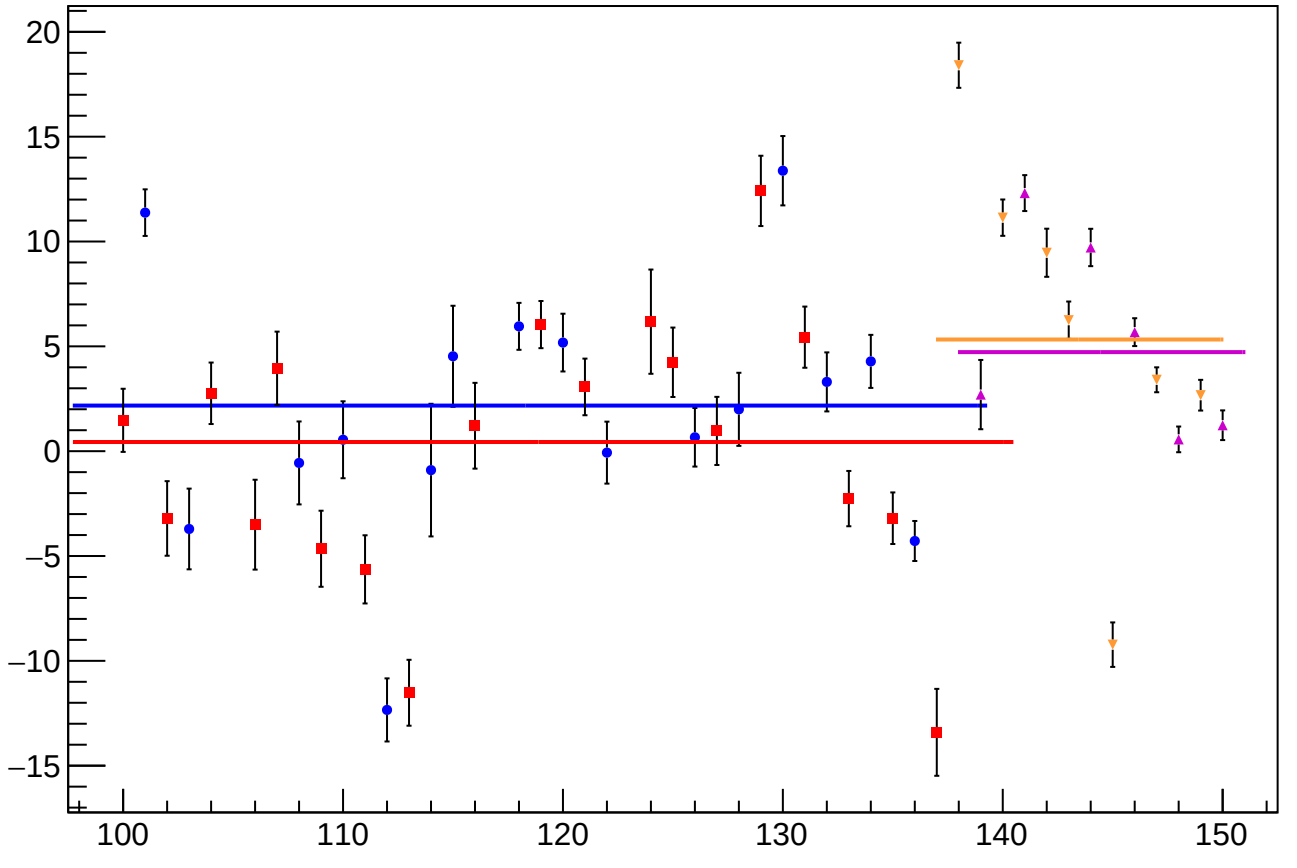
Left: 69.279+/-0.269 $\chi^2$/NDF: 815.7/12

Right: 74.565+/-0.236 $\chi^2$/NDF: 9175.5/34

In: 74.295+/-0.253 $\chi^2$/NDF:2486.1/21

Out: 70.309+/-0.249 $\chi^2$/NDF:7597.0/25

All: 72.269+/-0.178 $\chi^2$/NDF: 10209.1/47




Right In: 2.175+/-0.364 $\chi^2$/NDF: 290.3/15

Left Out: 5.326+/-0.319 $\chi^2$/NDF:418.4/6

Right Out: 0.438+/-0.362 $\chi^2$/NDF: 254.1/18

Left In: 4.725+/-0.318 $\chi^2$/NDF:183.7/5

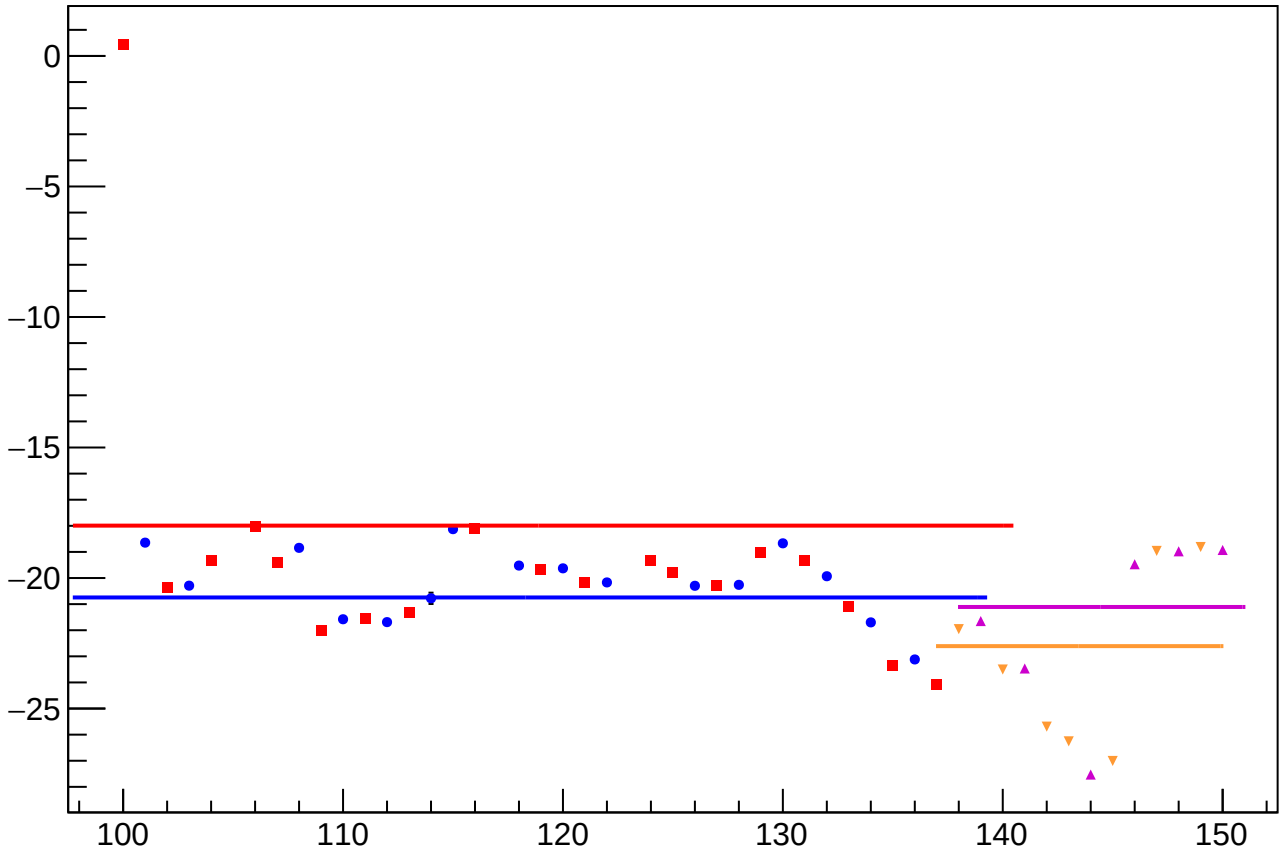
Left: 5.024+/-0.225 $\chi^2$/NDF: 603.9/12

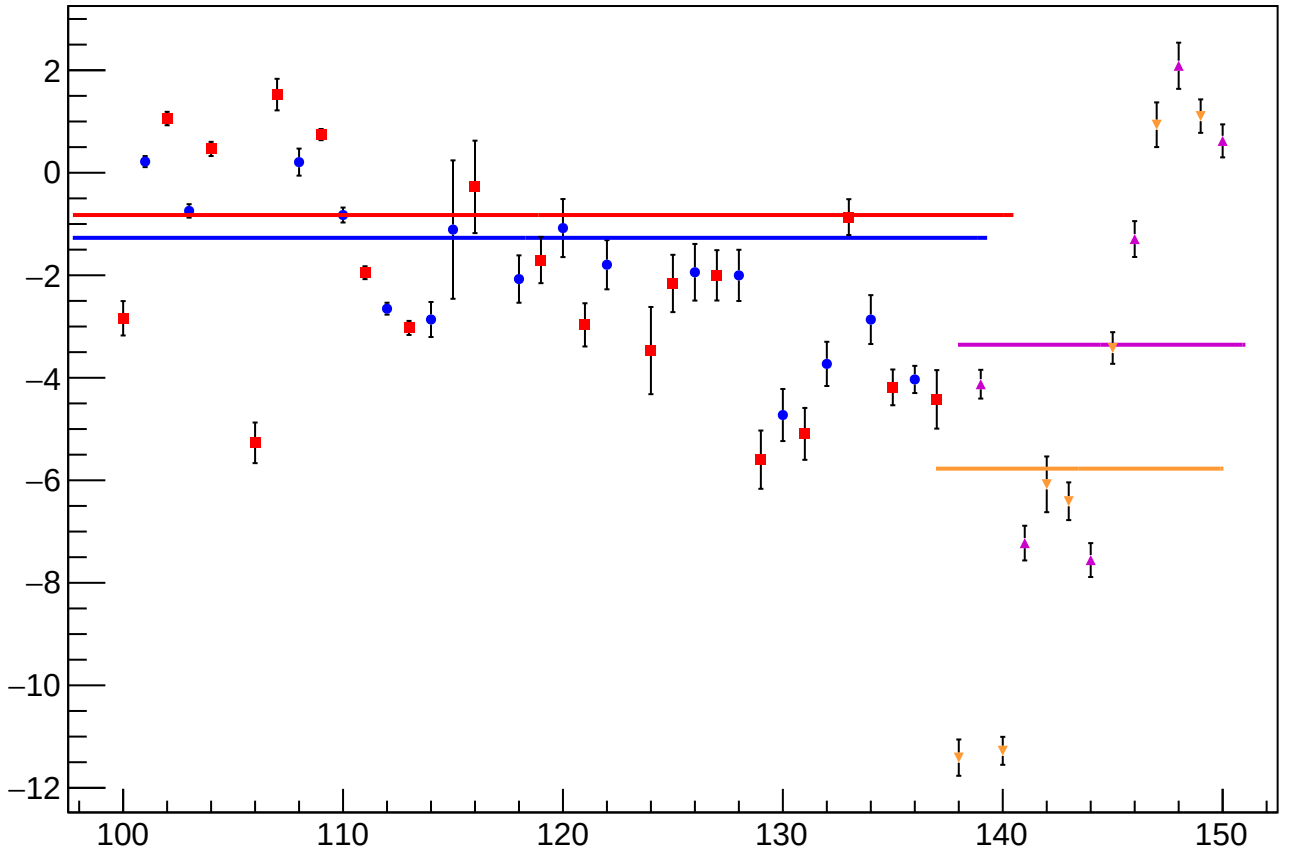
Right: 1.302+/-0.257 $\chi^2$/NDF: 555.9/34

In: 3.621+/-0.239 $\chi^2$/NDF:501.9/21

Out: 3.186+/-0.239 $\chi^2$/NDF:775.2/25

All: 3.404+/-0.169 $\chi^2$/NDF: 1278.7/47


reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected
0
−5
−10
−15
−20
−25
100
110
120
130
140
150
Right In: -20.745+/-0.019 χ²/NDF: 7513.6/15
Left Out: -22.609+/-0.016 χ²/NDF:39010.6/6
Right Out: -17.993+/-0.019 χ²/NDF: 150579.1/18
Left In: -21.109+/-0.016 χ²/NDF:31195.9/5
Left: -21.840+/-0.011 χ²/NDF: 74746.6/12
Right: -19.328+/-0.014 χ²/NDF: 168397.6/34
In: -20.967+/-0.012 χ²/NDF:38923.4/21
Out: -20.688+/-0.012 χ²/NDF:224496.6/25
All: -20.828+/-0.009 χ²/NDF: 263682.9/47




Right In: -1.270+/-0.055 $\chi^2$/NDF: 616.5/15

Left Out: -5.773+/-0.132 $\chi^2$/NDF:1402.7/6

Right Out: -0.825+/-0.051 $\chi^2$/NDF: 1384.3/18

Left In: -3.356+/-0.137 $\chi^2$/NDF:632.6/5

Left: -4.608+/-0.095 $\chi^2$/NDF: 2196.7/12

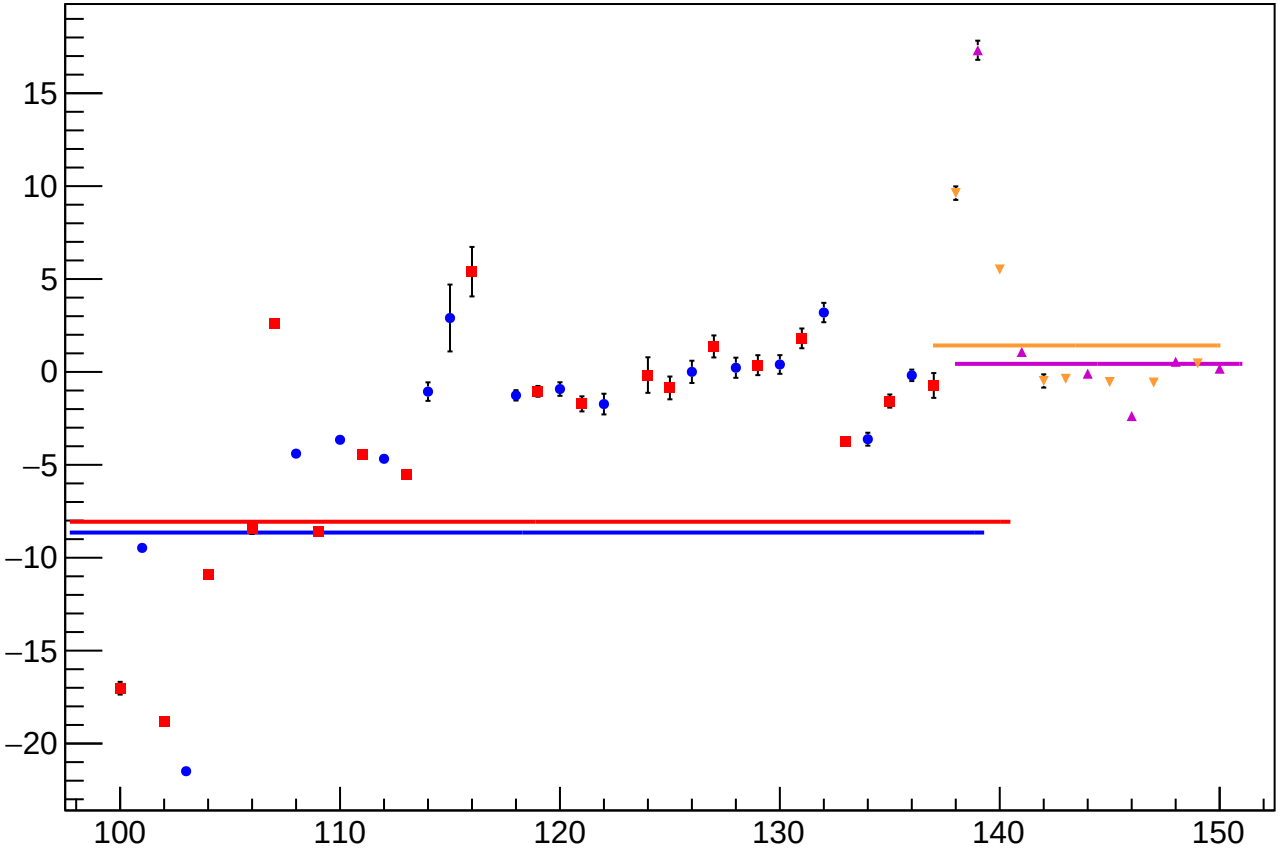
Right: -1.033+/-0.037 $\chi^2$/NDF: 2036.2/34

In: -1.555+/-0.051 $\chi^2$/NDF:1449.3/21

Out: -1.468+/-0.048 $\chi^2$/NDF:4008.1/25

All: -1.509+/-0.035 $\chi^2$/NDF: 5458.9/47

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -8.645+/-0.057 $\chi^2$/NDF: 13827.6/15

Left Out: 1.425+/-0.095 $\chi^2$/NDF:1073.7/6

Right Out: -8.063+/-0.058 $\chi^2$/NDF: 14427.9/18

Left In: 0.435+/-0.100 $\chi^2$/NDF:1260.7/5

Left: 0.952+/-0.069 $\chi^2$/NDF: 2386.0/12

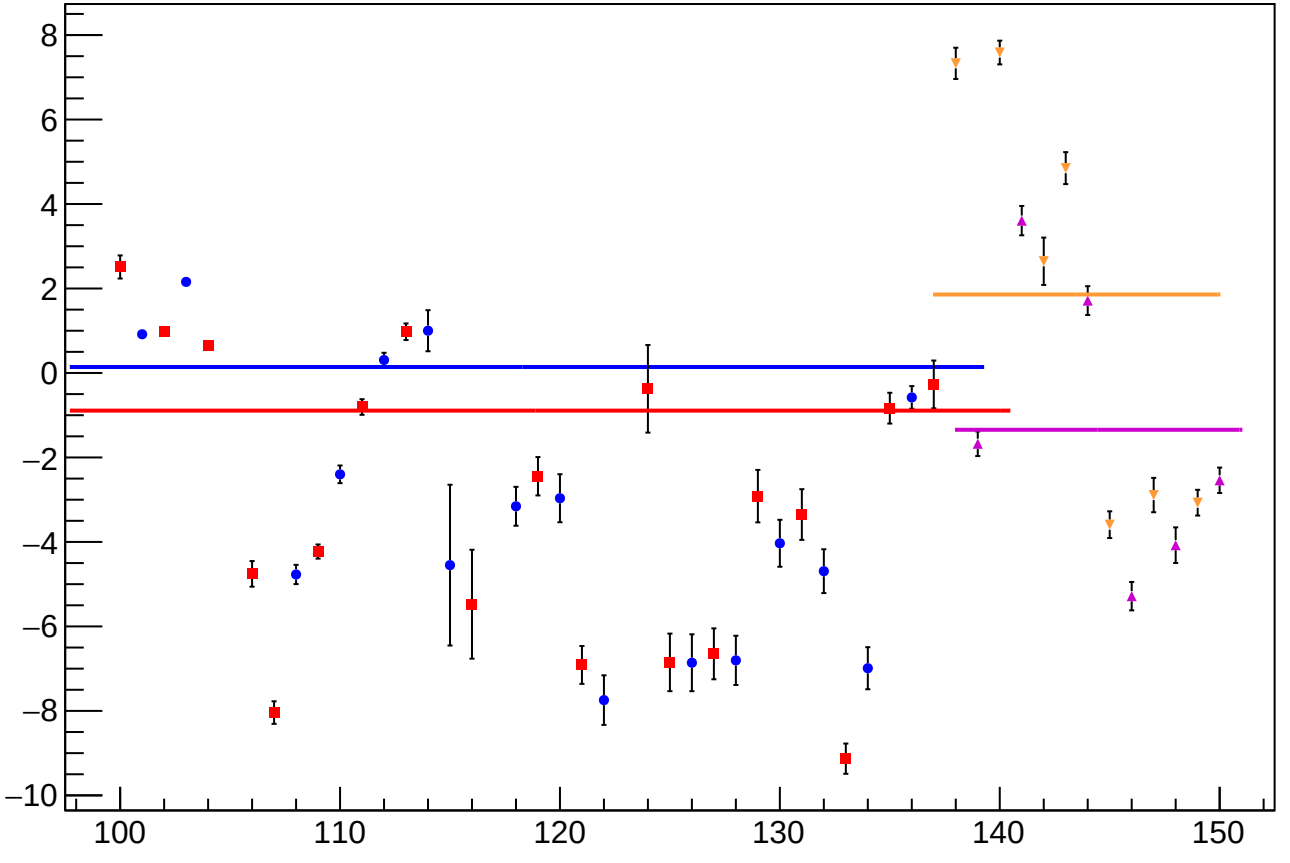
Right: -8.357+/-0.040 $\chi^2$/NDF: 28307.3/34

In: -6.406+/-0.049 $\chi^2$/NDF:21358.4/21

Out: -5.531+/-0.049 $\chi^2$/NDF:22767.7/25

All: -5.967+/-0.035 $\chi^2$/NDF: 44283.7/47

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.141+/-0.053 $\chi^2$/NDF: 1959.8/15

Left Out: 1.858+/-0.133 $\chi^2$/NDF:1394.0/6

Right Out: -0.891+/-0.054 $\chi^2$/NDF: 2985.7/18

Left In: -1.345+/-0.136 $\chi^2$/NDF:480.1/5

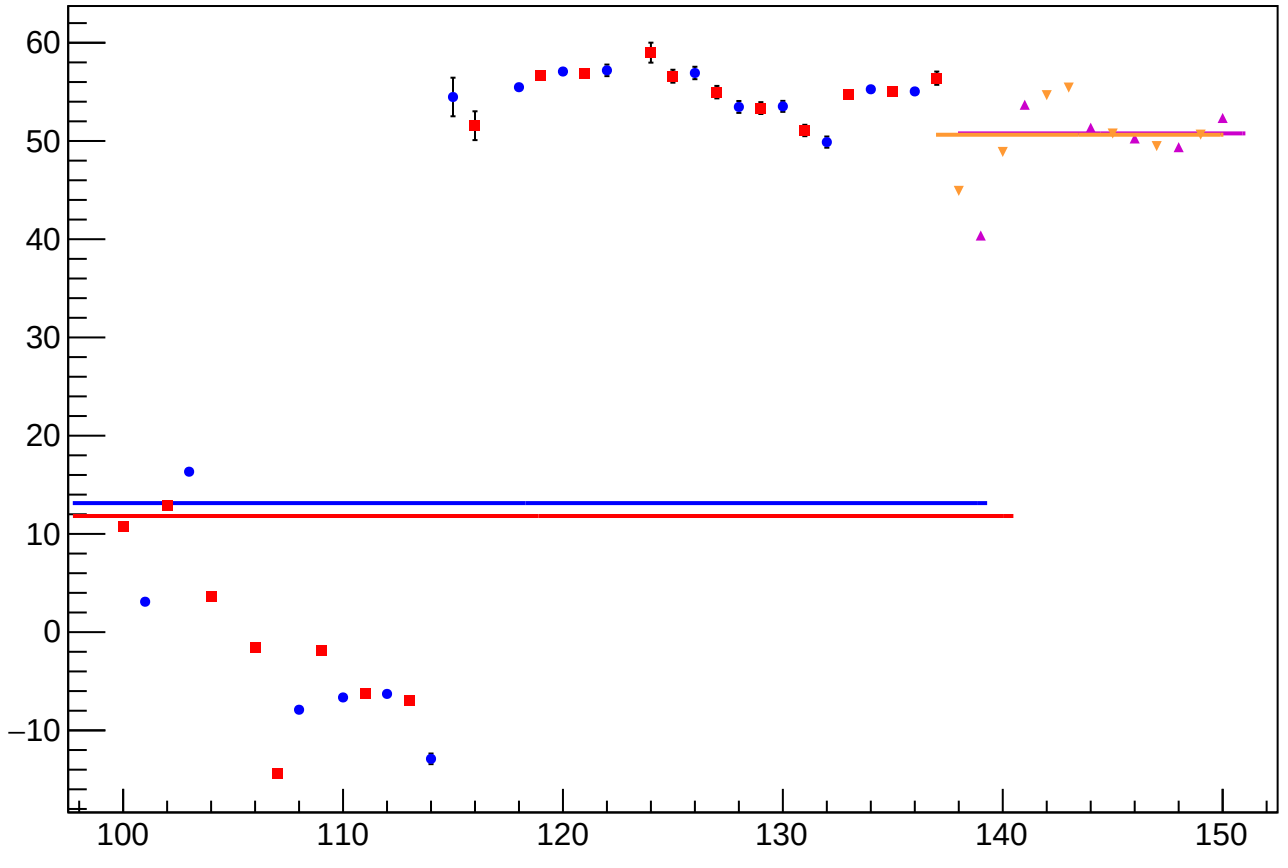
Left: 0.297+/-0.095 $\chi^2$/NDF: 2158.8/12

Right: -0.368+/-0.038 $\chi^2$/NDF: 5133.2/34

In: -0.054+/-0.049 $\chi^2$/NDF:2543.7/21

Out: -0.504+/-0.050 $\chi^2$/NDF:4749.5/25

All: -0.278+/-0.035 $\chi^2$/NDF: 7334.4/47




Right In: 13.136+/-0.068 $\chi^2$/NDF: 108574.4/15

Left Out: 50.636+/-0.115 $\chi^2$/NDF:571.5/6

Right Out: 11.822+/-0.068 $\chi^2$/NDF: 118168.5/18

Left In: 50.772+/-0.120 $\chi^2$/NDF:608.0/5

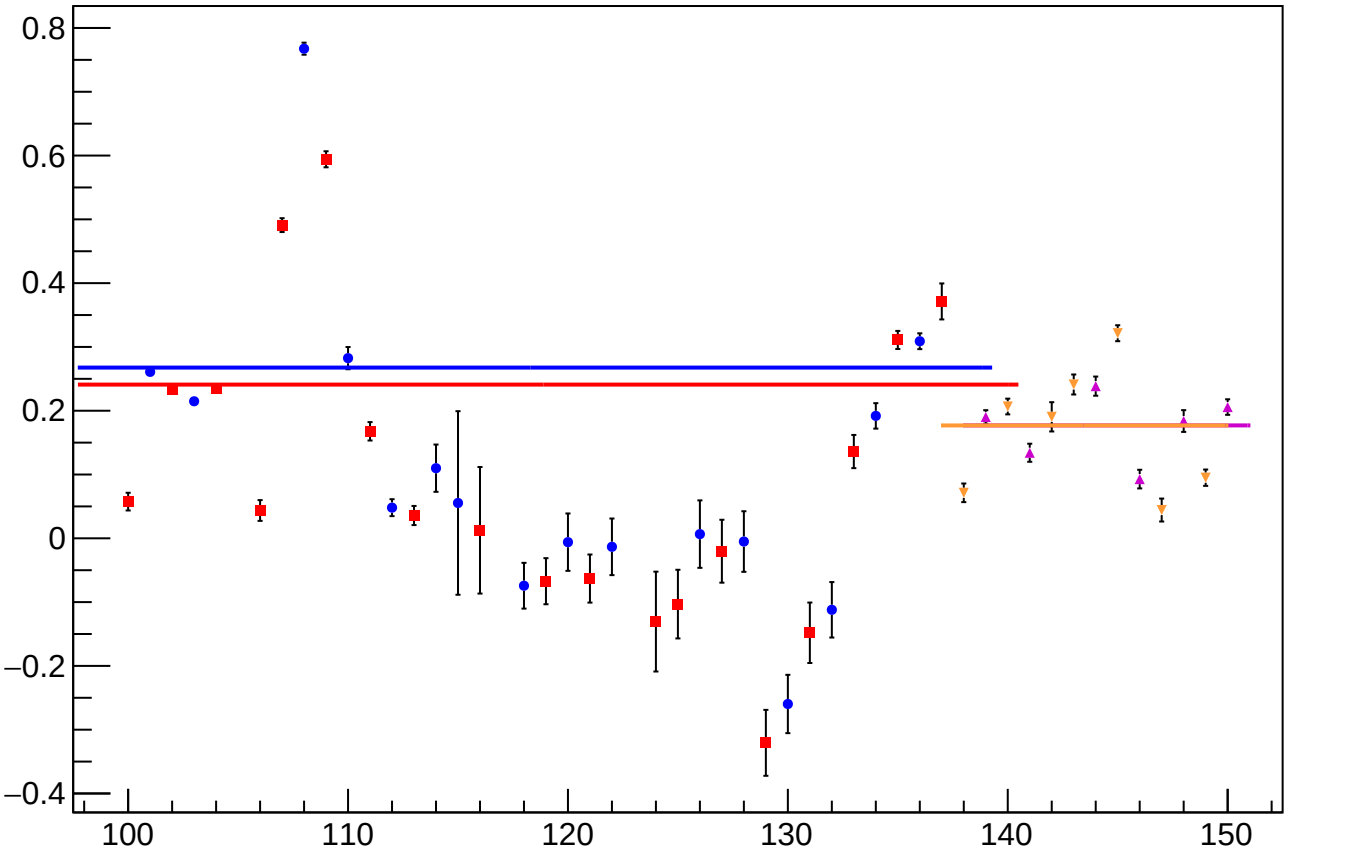
Left: 50.701+/-0.083 $\chi^2$/NDF: 1180.1/12

Right: 12.478+/-0.048 $\chi^2$/NDF: 226930.1/34

In: 22.253+/-0.059 $\chi^2$/NDF:183510.8/21

Out: 21.784+/-0.058 $\chi^2$/NDF:202736.9/25

All: 22.016+/-0.042 $\chi^2$/NDF: 386279.5/47




Right In: 0.268+/-0.003 $\chi^2$/NDF: 3720.4/15

Left Out: 0.177+/-0.006 $\chi^2$/NDF:304.3/6

Right Out: 0.241+/-0.003 $\chi^2$/NDF: 2339.2/18

Left In: 0.177+/-0.005 $\chi^2$/NDF:66.4/5

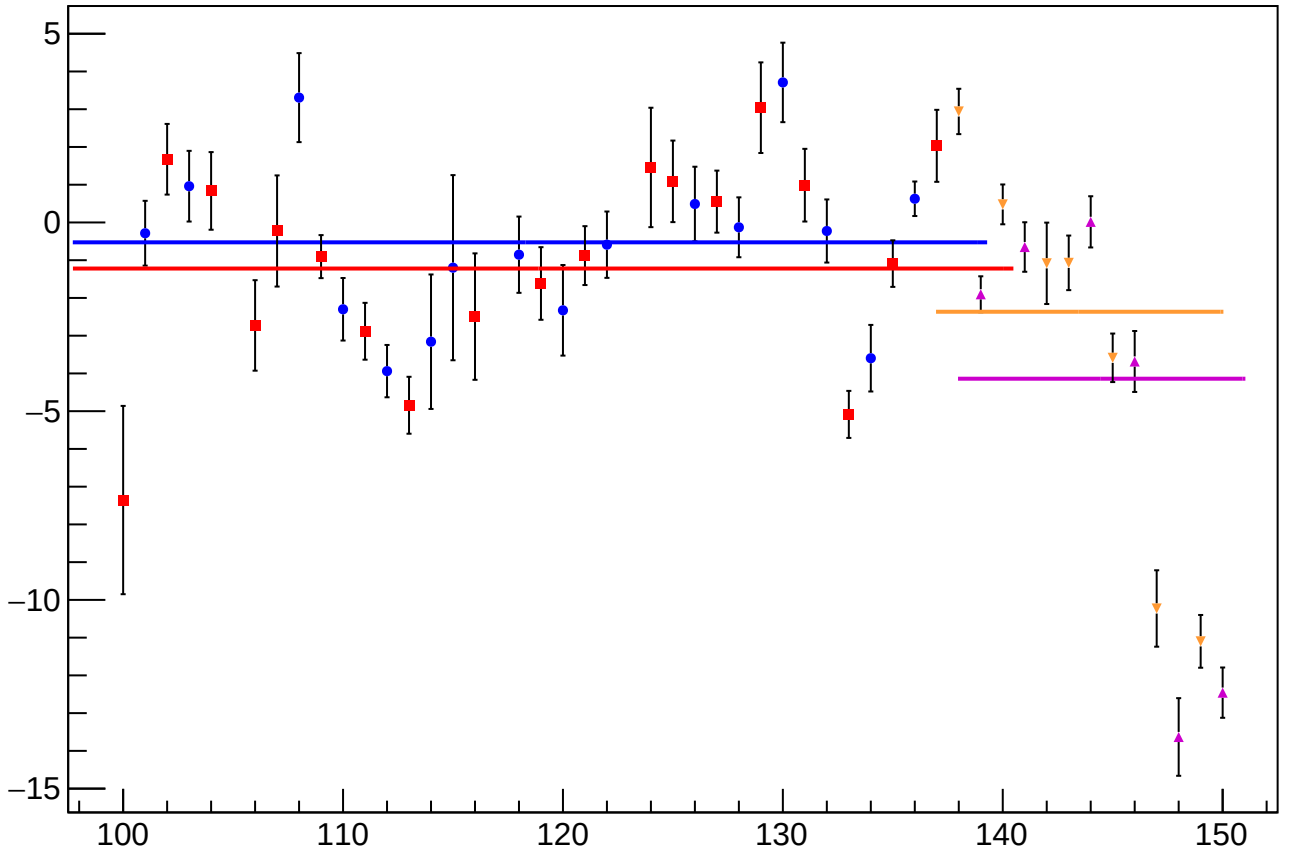
Left: 0.177+/-0.004 $\chi^2$/NDF: 370.7/12

Right: 0.254+/-0.002 $\chi^2$/NDF: 6105.9/34

In: 0.249+/-0.002 $\chi^2$/NDF:4003.4/21

Out: 0.228+/-0.002 $\chi^2$/NDF:2751.3/25

All: 0.239+/-0.002 $\chi^2$/NDF: 6789.9/47




Right In: -0.527+/-0.217 $\chi^2$/NDF: 82.7/15

Left Out: -2.366+/-0.262 $\chi^2$/NDF:331.7/6

Right Out: -1.221+/-0.205 $\chi^2$/NDF: 130.9/18

Left In: -4.140+/-0.271 $\chi^2$/NDF:329.2/5

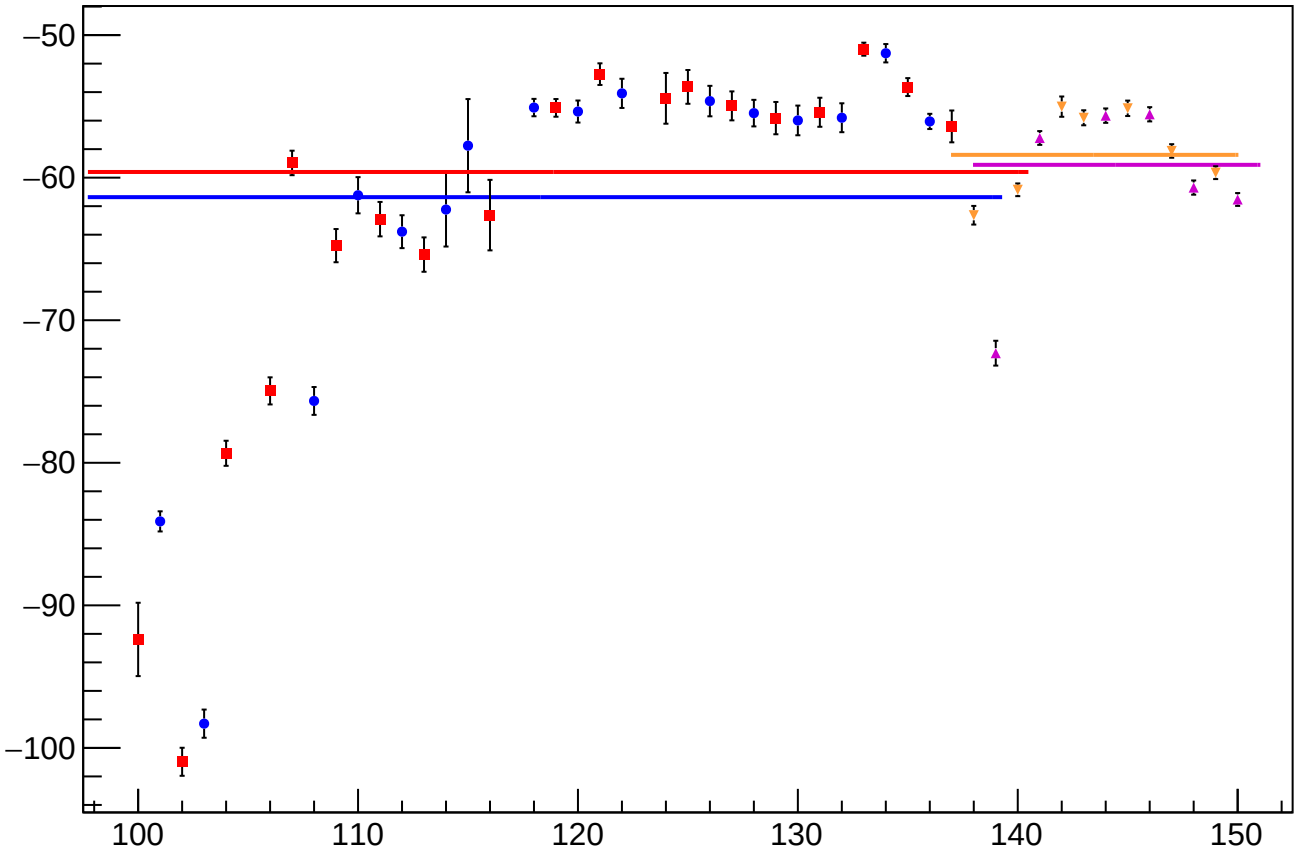
Left: -3.223+/-0.188 $\chi^2$/NDF: 683.1/12

Right: -0.894+/-0.149 $\chi^2$/NDF: 219.1/34

In: -1.940+/-0.169 $\chi^2$/NDF:520.3/21

Out: -1.655+/-0.161 $\chi^2$/NDF:474.5/25

All: -1.790+/-0.117 $\chi^2$/NDF: 996.3/47




Right In: -61.367+/-0.219 $\chi^2$/NDF: 3351.2/15

Left Out: -58.400+/-0.197 $\chi^2$/NDF:163.4/6

Right Out: -59.601+/-0.207 $\chi^2$/NDF: 3421.3/18

Left In: -59.100+/-0.211 $\chi^2$/NDF:381.4/5

Left: -58.727+/-0.144 $\chi^2$/NDF: 550.8/12

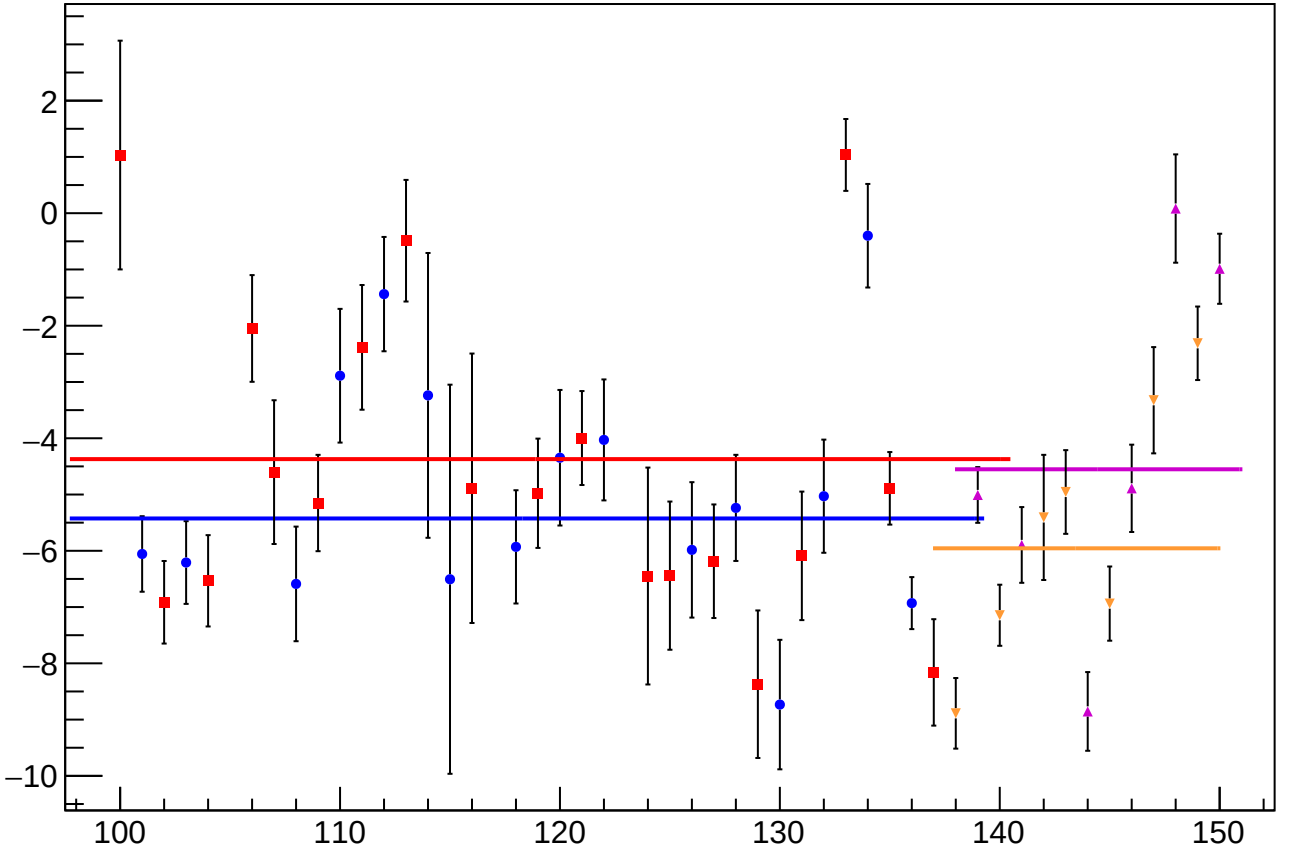
Right: -60.433+/-0.150 $\chi^2$/NDF: 6806.9/34

In: -60.192+/-0.152 $\chi^2$/NDF:3788.2/21

Out: -58.973+/-0.143 $\chi^2$/NDF:3602.4/25

All: -59.544+/-0.104 $\chi^2$/NDF: 7424.8/47

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -5.425+/-0.230 $\chi^2$/NDF: 76.0/15

Left Out: -5.956+/-0.264 $\chi^2$/NDF:69.8/6

Right Out: -4.371+/-0.223 $\chi^2$/NDF: 156.6/18

Left In: -4.551+/-0.271 $\chi^2$/NDF:98.8/5

Left: -5.270+/-0.189 $\chi^2$/NDF: 182.4/12

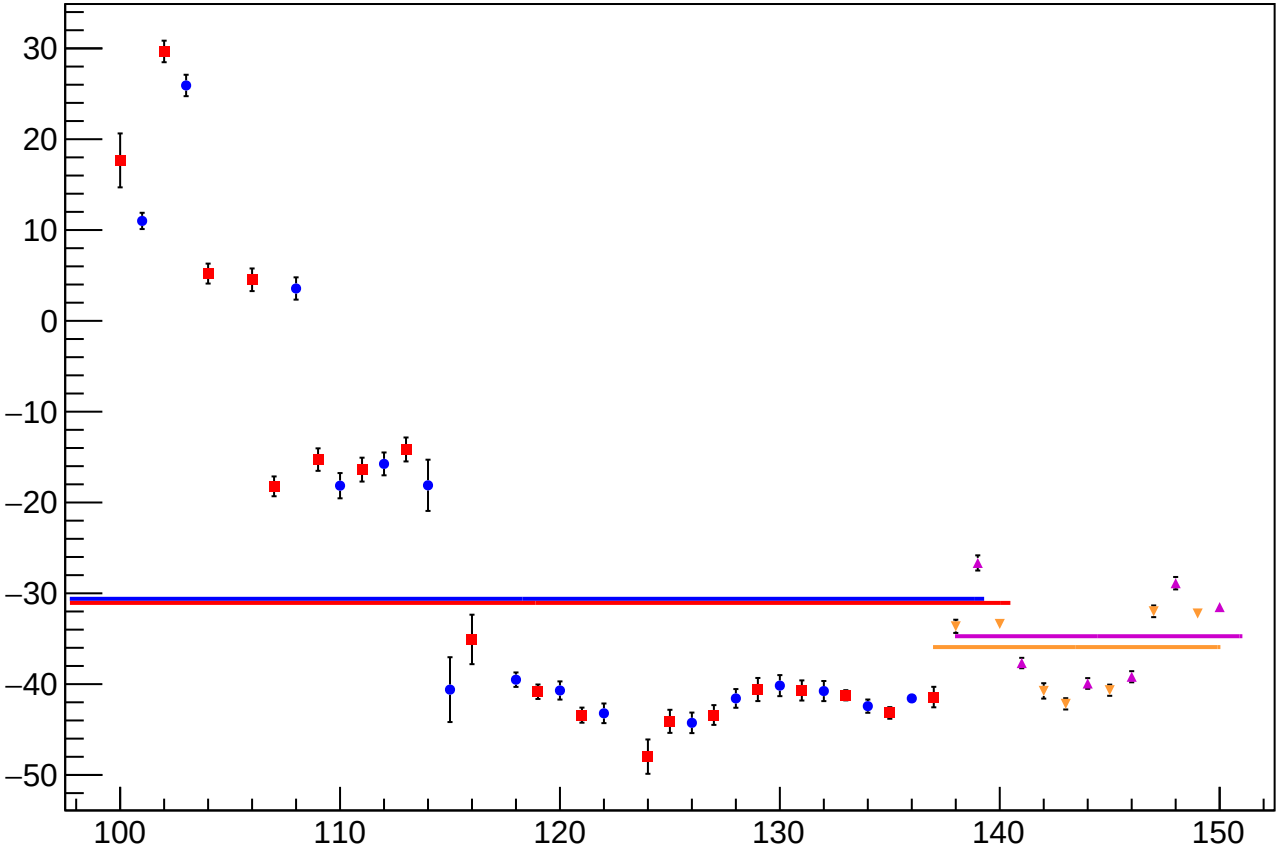
Right: -4.881+/-0.160 $\chi^2$/NDF: 243.4/34

In: -5.059+/-0.175 $\chi^2$/NDF:180.8/21

Out: -5.028+/-0.170 $\chi^2$/NDF:247.5/25

All: -5.043+/-0.122 $\chi^2$/NDF: 428.3/47

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -30.605+/-0.249 $\chi^2$/NDF: 6938.0/15

Left Out: -35.921+/-0.237 $\chi^2$/NDF:310.2/6

Right Out: -31.056+/-0.238 $\chi^2$/NDF: 6976.4/18

Left In: -34.725+/-0.251 $\chi^2$/NDF:361.2/5

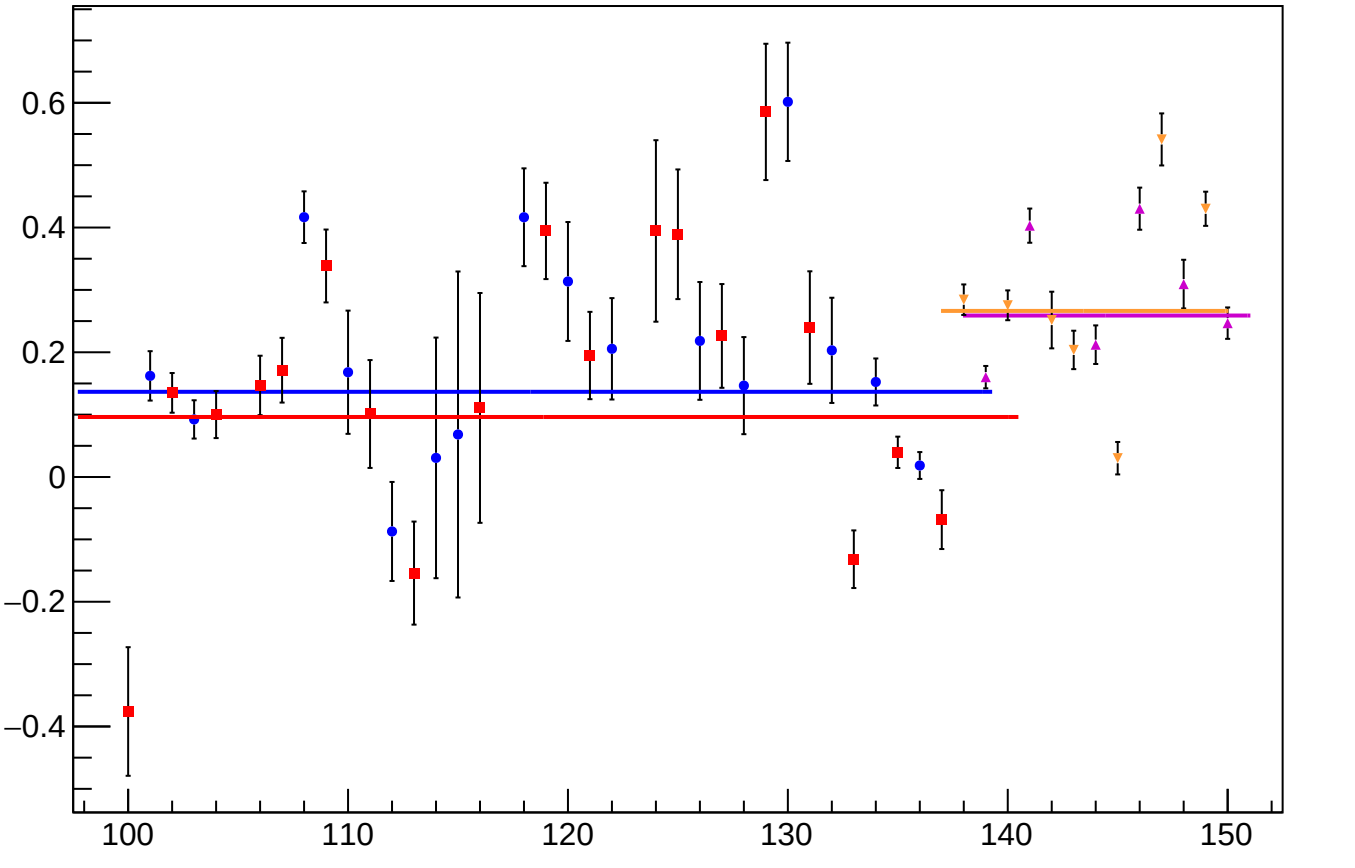
Left: -35.359+/-0.172 $\chi^2$/NDF: 683.5/12

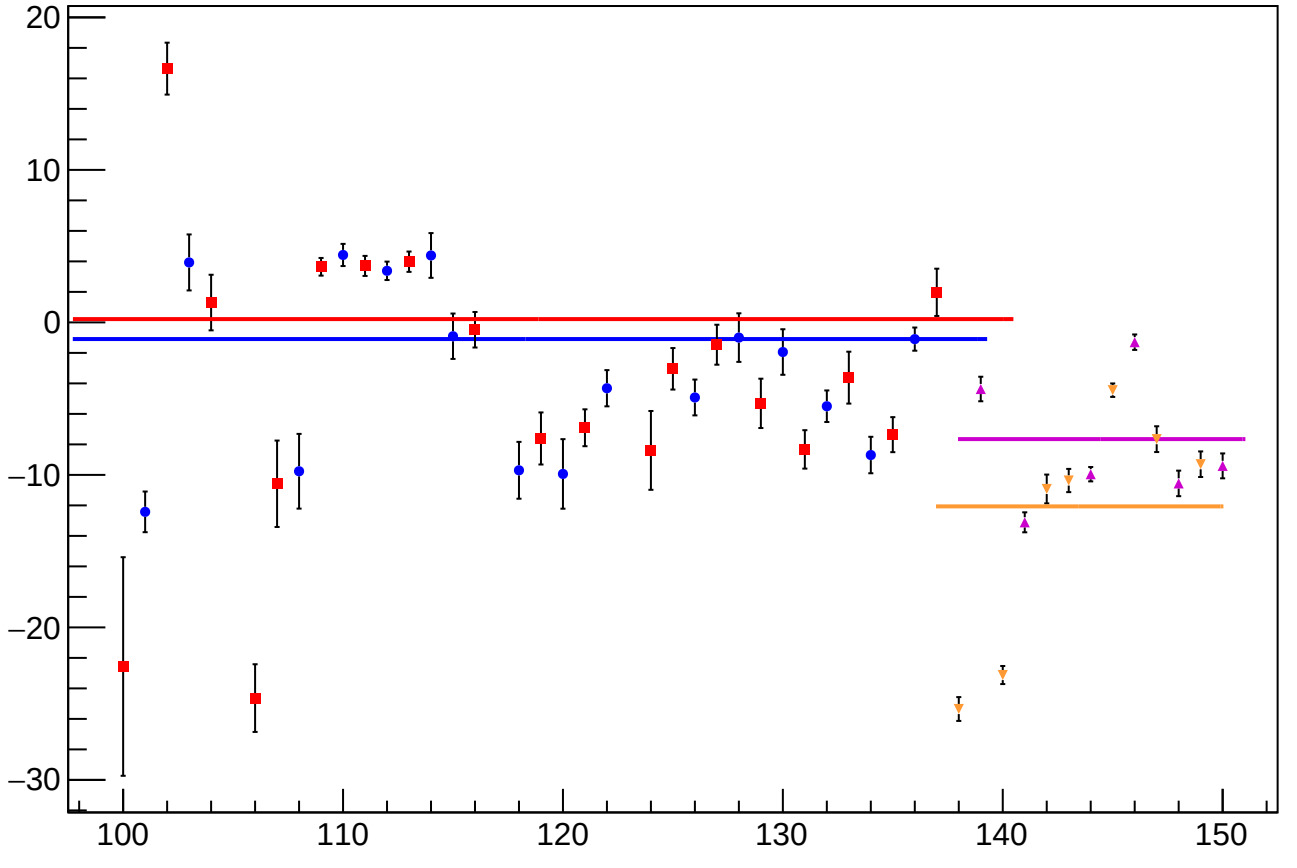
Right: -30.841+/-0.172 $\chi^2$/NDF: 13916.2/34

In: -32.650+/-0.177 $\chi^2$/NDF:7434.7/21

Out: -33.501+/-0.168 $\chi^2$/NDF:7497.0/25

All: -33.098+/-0.122 $\chi^2$/NDF: 14944.0/47


reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected
0.6
0.4
0.2
0
−0.2
−0.4
100
110
120
130
140
150
Right In: 0.137+/-0.013 χ²/NDF: 129.2/15
Left Out: 0.266+/-0.011 χ²/NDF:166.4/6
Right Out: 0.096+/-0.012 χ²/NDF: 147.7/18
Left In: 0.259+/-0.011 χ²/NDF:87.9/5
Left: 0.263+/-0.008 χ²/NDF: 254.6/12
Right: 0.116+/-0.009 χ²/NDF: 282.3/34
In: 0.207+/-0.008 χ²/NDF:272.0/21
Out: 0.191+/-0.008 χ²/NDF:420.4/25
All: 0.199+/-0.006 χ²/NDF: 694.2/47




Right In: -1.092+/-0.281 $\chi^2$/NDF: 332.0/15

Left Out: -12.065+/-0.256 $\chi^2$/NDF:980.1/6

Right Out: 0.216+/-0.266 $\chi^2$/NDF: 520.8/18

Left In: -7.653+/-0.256 $\chi^2$/NDF:283.8/5

Left: -9.865+/-0.181 $\chi^2$/NDF: 1412.3/12

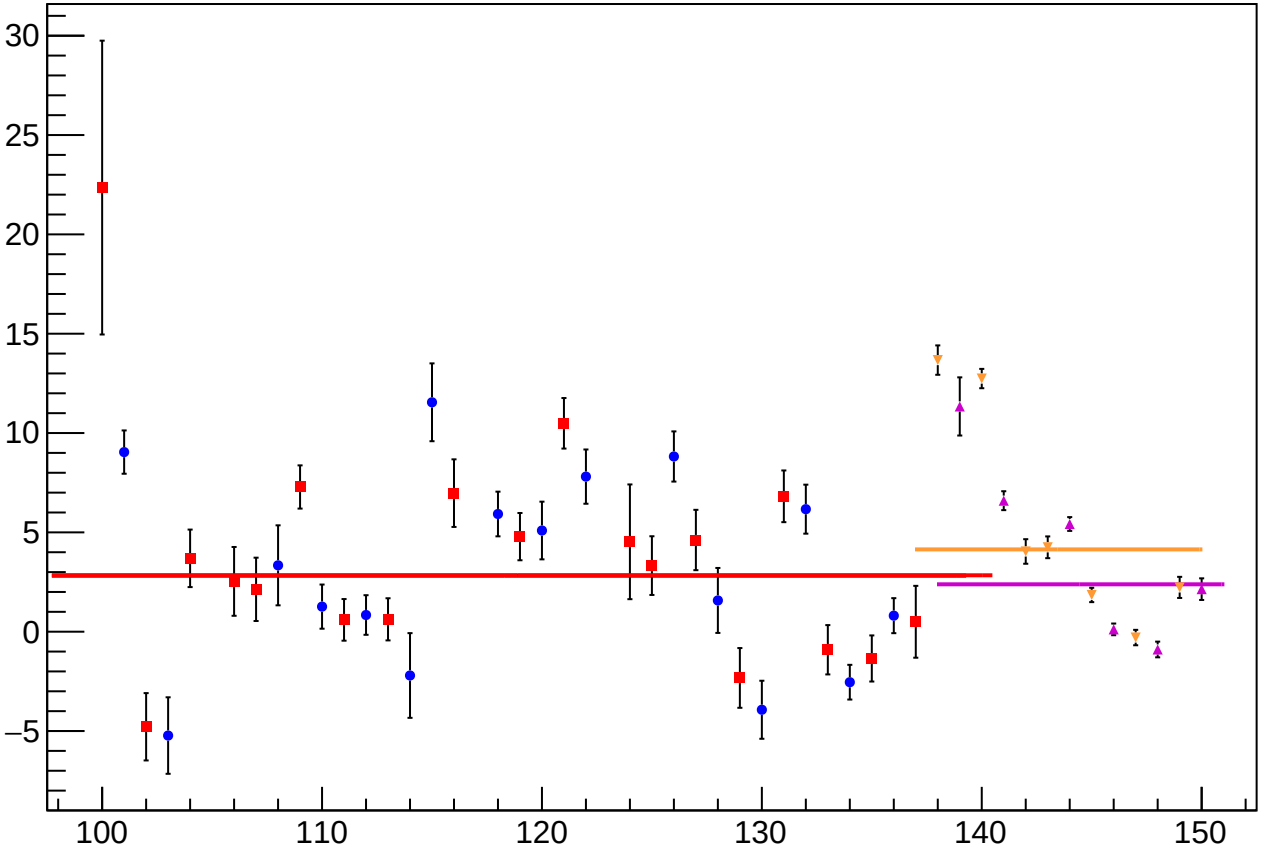
Right: -0.404+/-0.193 $\chi^2$/NDF: 864.2/34

In: -4.666+/-0.189 $\chi^2$/NDF:913.7/21

Out: -6.168+/-0.184 $\chi^2$/NDF:2607.5/25

All: -5.437+/-0.132 $\chi^2$/NDF: 3553.4/47

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.823+/-0.313 $\chi^2$/NDF: 199.6/15

Left Out: 4.142+/-0.183 $\chi^2$/NDF:662.6/6

Right Out: 2.840+/-0.322 $\chi^2$/NDF: 145.0/18

Left In: 2.385+/-0.170 $\chi^2$/NDF:320.7/5

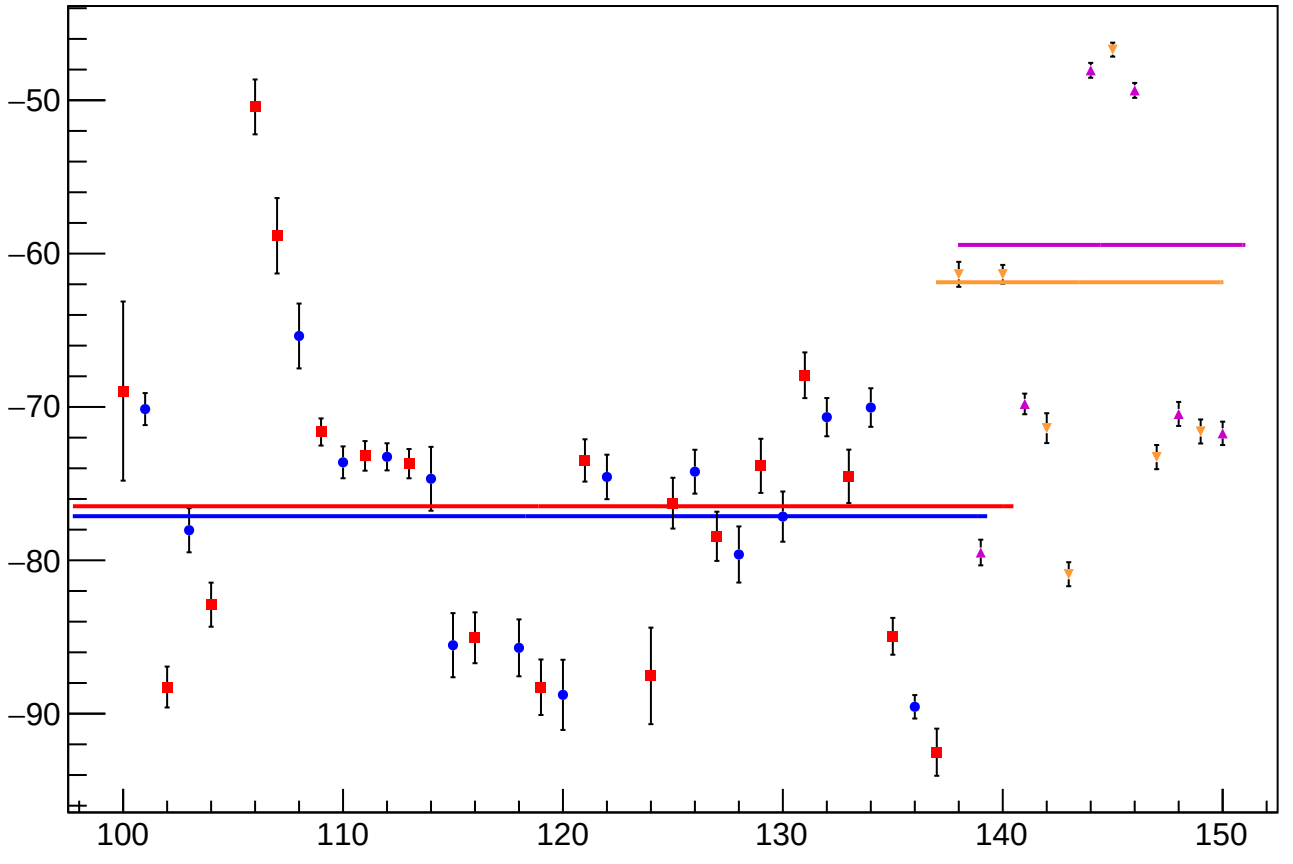
Left: 3.200+/-0.125 $\chi^2$/NDF: 1032.8/12

Right: 2.831+/-0.225 $\chi^2$/NDF: 344.5/34

In: 2.485+/-0.150 $\chi^2$/NDF:521.8/21

Out: 3.825+/-0.159 $\chi^2$/NDF:820.0/25

All: 3.113+/-0.109 $\chi^2$/NDF: 1379.4/47




Right In: -77.123+/-0.326 $\chi^2$/NDF: 503.3/15

Left Out: -61.868+/-0.259 $\chi^2$/NDF:2159.0/6

Right Out: -76.475+/-0.328 $\chi^2$/NDF: 695.8/18

Left In: -59.433+/-0.255 $\chi^2$/NDF:2246.5/5

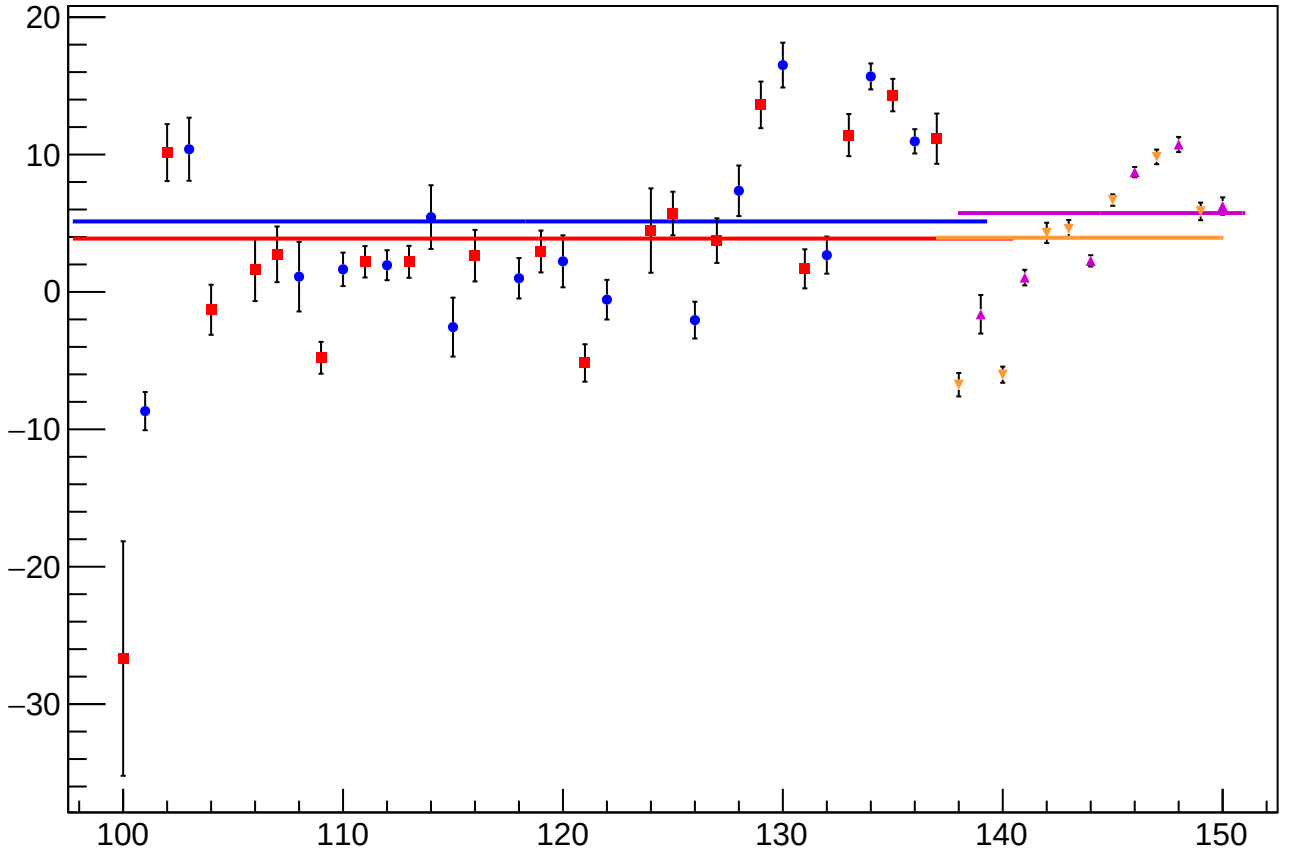
Left: -60.631+/-0.181 $\chi^2$/NDF: 4450.5/12

Right: -76.801+/-0.231 $\chi^2$/NDF: 1201.1/34

In: -66.125+/-0.201 $\chi^2$/NDF:4577.3/21

Out: -67.458+/-0.203 $\chi^2$/NDF:4075.4/25

All: -66.783+/-0.143 $\chi^2$/NDF: 8674.5/47




Right In: 5.132+/-0.350 $\chi^2$/NDF: 412.3/15

Left Out: 3.944+/-0.222 $\chi^2$/NDF:621.4/6

Right Out: 3.885+/-0.361 $\chi^2$/NDF: 291.5/18

Left In: 5.740+/-0.210 $\chi^2$/NDF:315.8/5

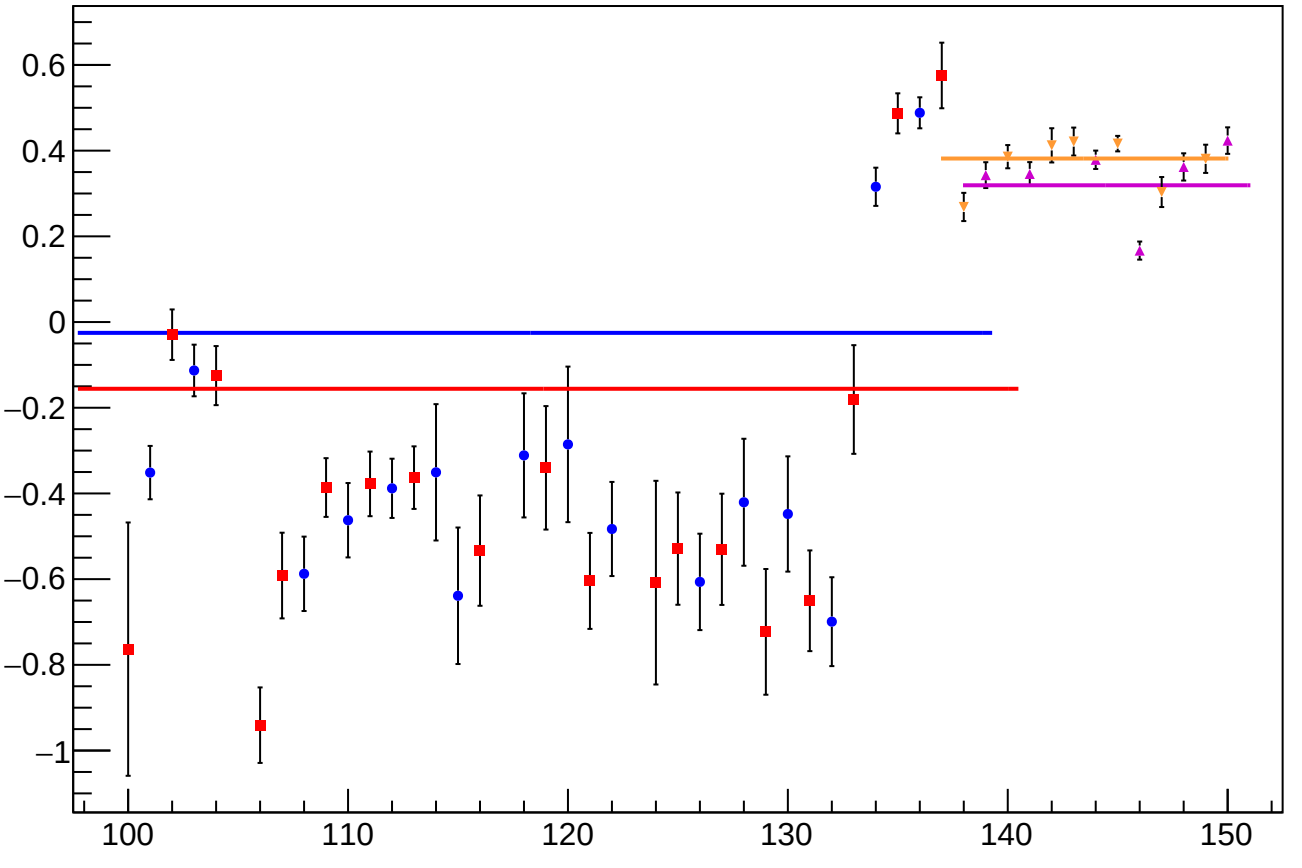
Left: 4.893+/-0.153 $\chi^2$/NDF: 971.7/12

Right: 4.529+/-0.251 $\chi^2$/NDF: 710.0/34

In: 5.579+/-0.180 $\chi^2$/NDF:730.3/21

Out: 3.928+/-0.189 $\chi^2$/NDF:912.9/25

All: 4.795+/-0.130 $\chi^2$/NDF: 1683.2/47




Right In: -0.025+/-0.019 $\chi^2$/NDF: 512.5/15

Left Out: 0.382+/-0.011 $\chi^2$/NDF:22.6/6

Right Out: -0.156+/-0.020 $\chi^2$/NDF: 494.9/18

Left In: 0.319+/-0.011 $\chi^2$/NDF:74.6/5

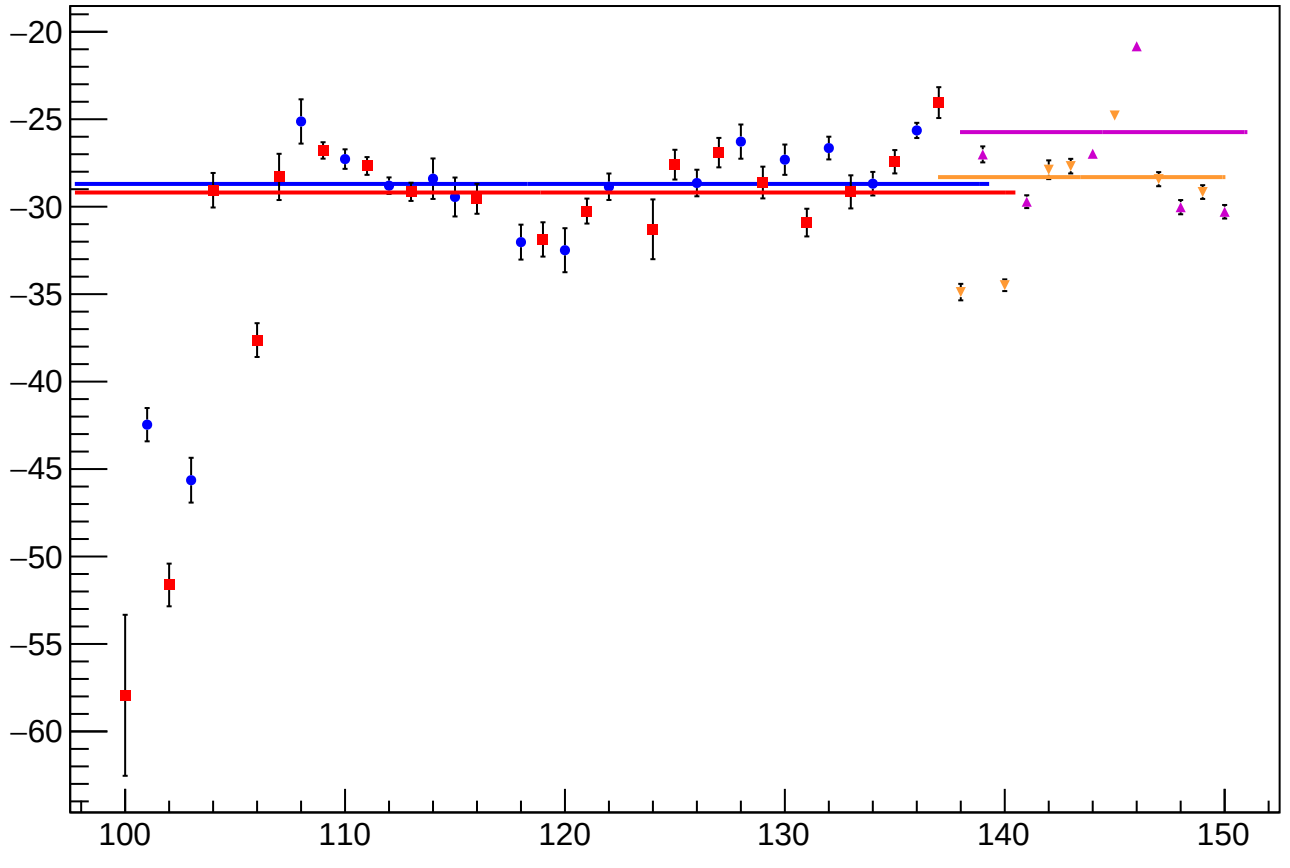
Left: 0.350+/-0.008 $\chi^2$/NDF: 114.2/12

Right: -0.086+/-0.014 $\chi^2$/NDF: 1029.5/34

In: 0.237+/-0.009 $\chi^2$/NDF:838.6/21

Out: 0.263+/-0.009 $\chi^2$/NDF:1068.3/25

All: 0.250+/-0.007 $\chi^2$/NDF: 1910.8/47




Right In: -28.698+/-0.186 $\chi^2$/NDF: 487.3/15

Left Out: -28.309+/-0.129 $\chi^2$/NDF:845.4/6

Right Out: -29.189+/-0.181 $\chi^2$/NDF: 557.3/18

Left In: -25.736+/-0.122 $\chi^2$/NDF:970.3/5

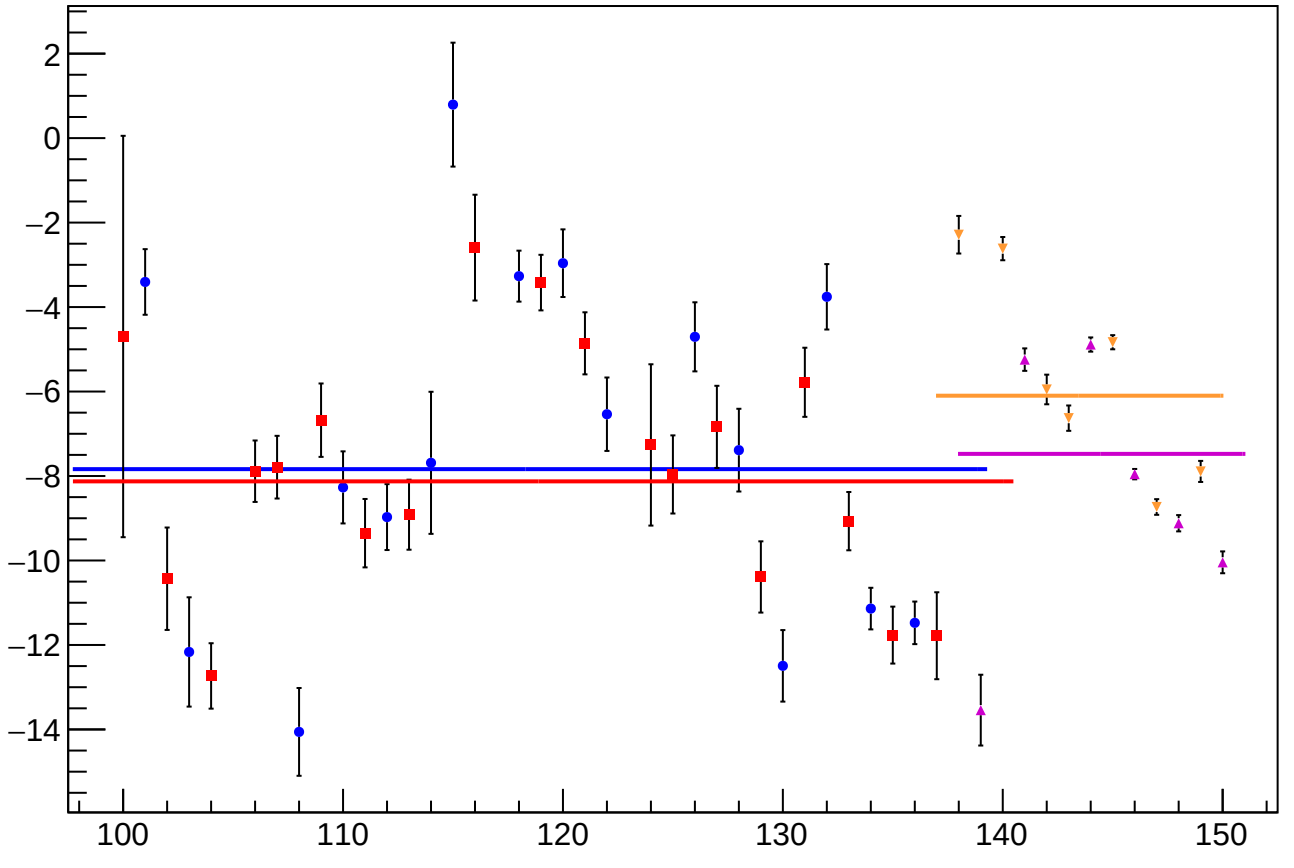
Left: -26.941+/-0.089 $\chi^2$/NDF: 2025.5/12

Right: -28.950+/-0.130 $\chi^2$/NDF: 1048.2/34

In: -26.623+/-0.102 $\chi^2$/NDF:1635.5/21

Out: -28.606+/-0.105 $\chi^2$/NDF:1418.3/25

All: -27.580+/-0.073 $\chi^2$/NDF: 3237.1/47




Right In: -7.837+/-0.195 $\chi^2$/NDF: 383.2/15

Left Out: -6.099+/-0.092 $\chi^2$/NDF:548.2/6

Right Out: -8.127+/-0.197 $\chi^2$/NDF: 197.3/18

Left In: -7.476+/-0.079 $\chi^2$/NDF:546.0/5

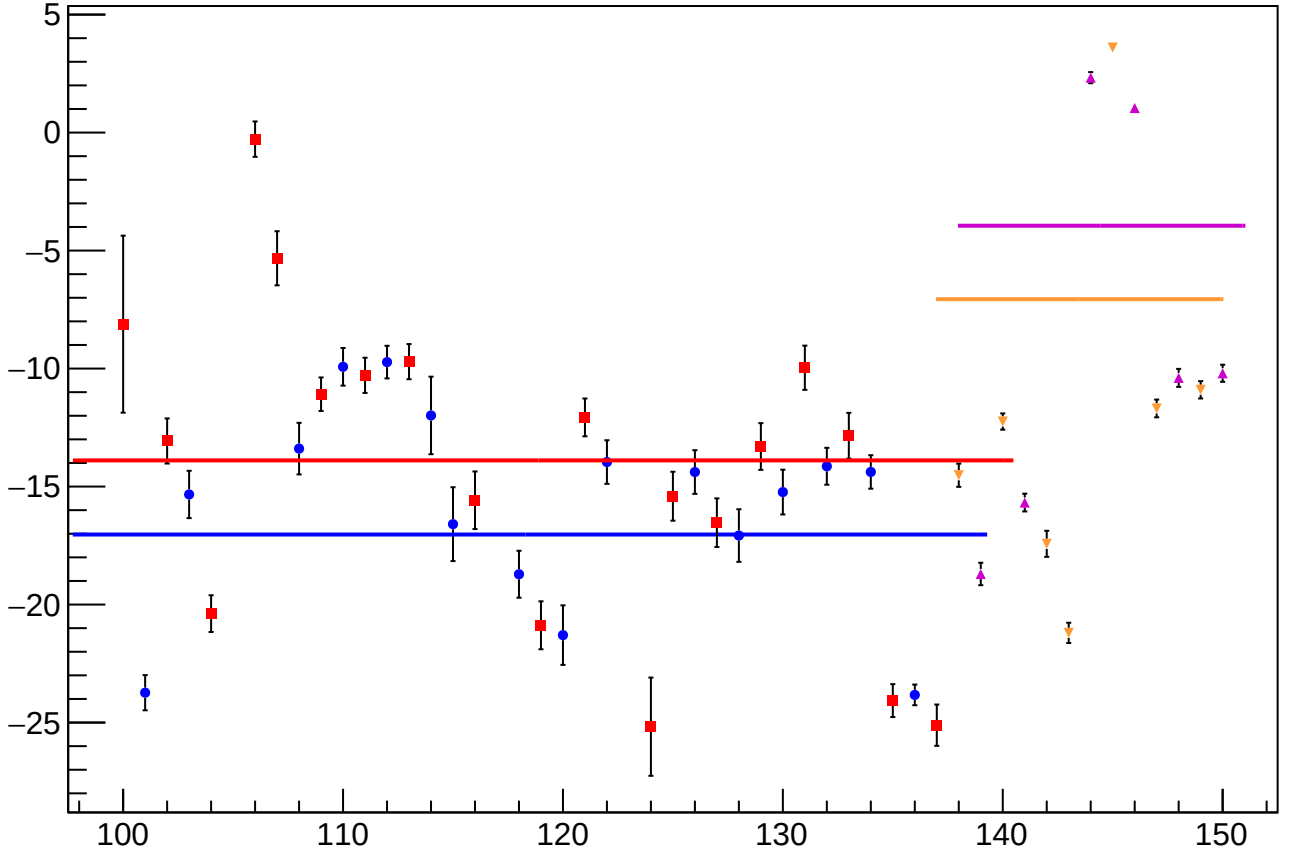
Left: -6.888+/-0.060 $\chi^2$/NDF: 1223.0/12

Right: -7.981+/-0.138 $\chi^2$/NDF: 581.6/34

In: -7.527+/-0.073 $\chi^2$/NDF:932.2/21

Out: -6.462+/-0.083 $\chi^2$/NDF:832.8/25

All: -7.061+/-0.055 $\chi^2$/NDF: 1857.0/47




Right In: -17.033+/-0.209 $\chi^2$/NDF: 601.2/15

Left Out: -7.060+/-0.130 $\chi^2$/NDF:4781.8/6

Right Out: -13.892+/-0.209 $\chi^2$/NDF: 1017.4/18

Left In: -3.947+/-0.120 $\chi^2$/NDF:3859.8/5

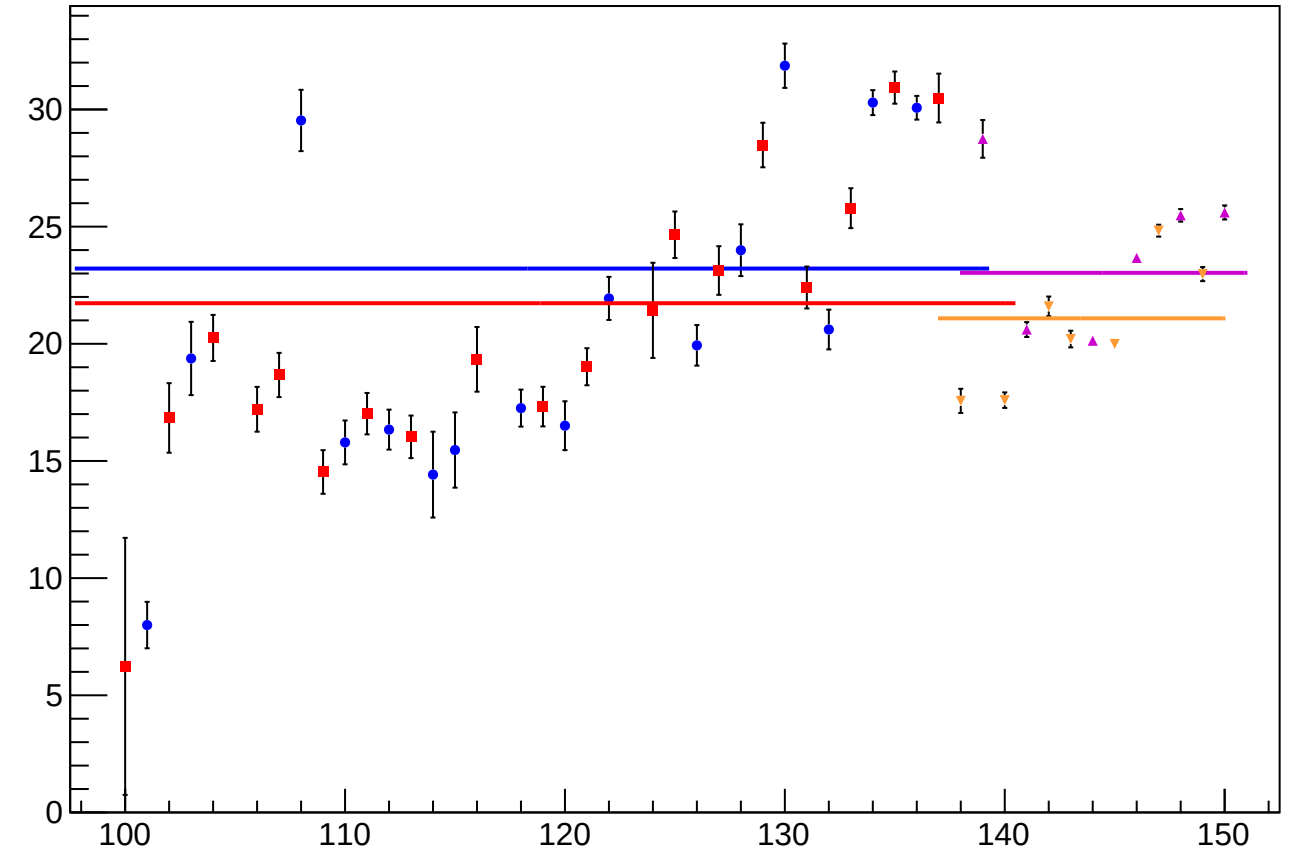
Left: -5.375+/-0.088 $\chi^2$/NDF: 8950.2/12

Right: -15.462+/-0.148 $\chi^2$/NDF: 1731.1/34

In: -7.184+/-0.104 $\chi^2$/NDF:7401.0/21

Out: -8.968+/-0.111 $\chi^2$/NDF:6567.0/25

All: -8.022+/-0.076 $\chi^2$/NDF: 14105.9/47




Right In: 23.211+/-0.218 $\chi^2$/NDF: 1008.2/15

Left Out: 21.087+/-0.112 $\chi^2$/NDF:454.0/6

Right Out: 21.731+/-0.224 $\chi^2$/NDF: 558.2/18

Left In: 23.028+/-0.098 $\chi^2$/NDF:499.1/5

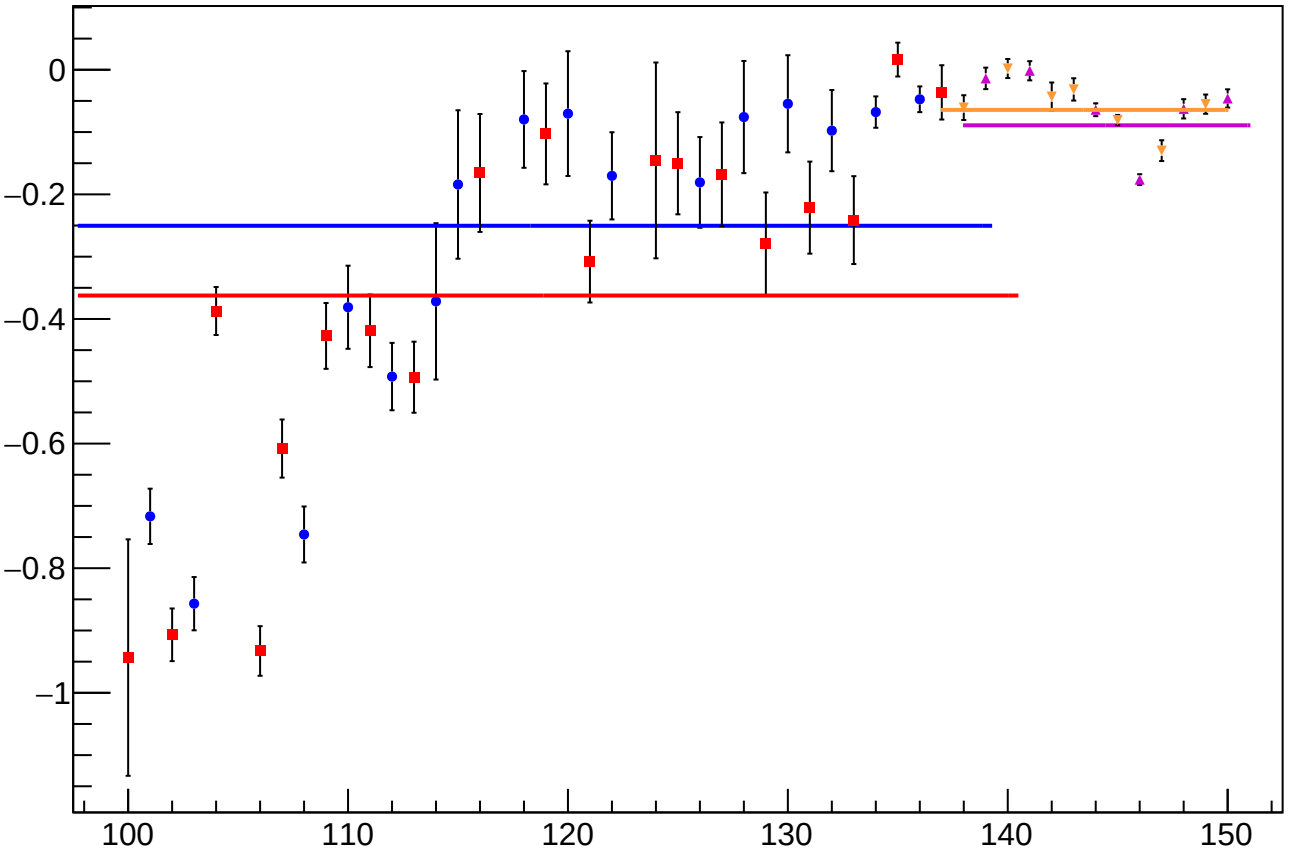
Left: 22.184+/-0.074 $\chi^2$/NDF: 1124.2/12

Right: 22.492+/-0.156 $\chi^2$/NDF: 1588.8/34

In: 23.059+/-0.089 $\chi^2$/NDF:1508.0/21

Out: 21.215+/-0.100 $\chi^2$/NDF:1018.9/25

All: 22.240+/-0.067 $\chi^2$/NDF: 2716.1/47




Right In: -0.250+/-0.012 $\chi^2$/NDF: 633.5/15

Left Out: -0.064+/-0.005 $\chi^2$/NDF:42.8/6

Right Out: -0.362+/-0.012 $\chi^2$/NDF: 704.3/18

Left In: -0.089+/-0.005 $\chi^2$/NDF:170.6/5

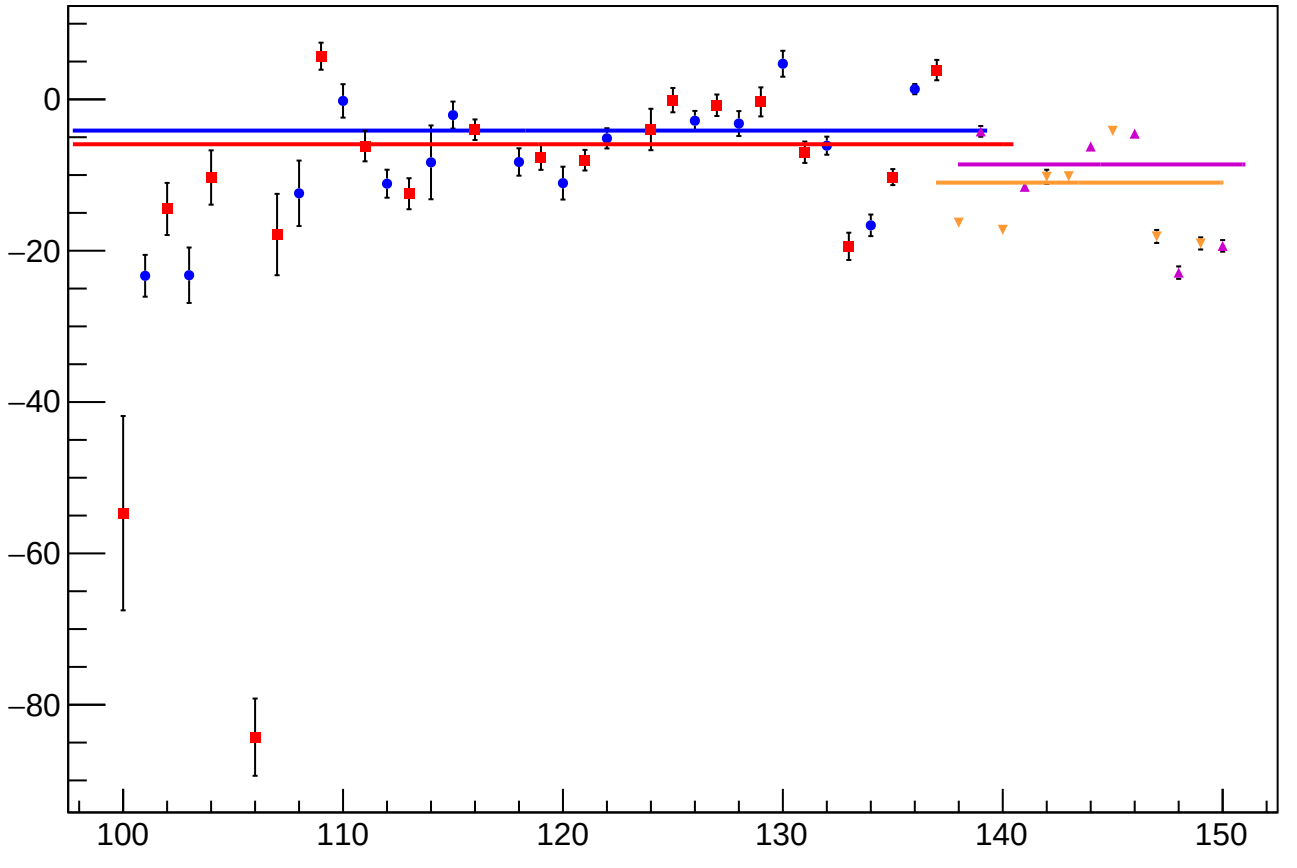
Left: -0.078+/-0.004 $\chi^2$/NDF: 224.6/12

Right: -0.303+/-0.008 $\chi^2$/NDF: 1381.3/34

In: -0.115+/-0.005 $\chi^2$/NDF:965.2/21

Out: -0.112+/-0.005 $\chi^2$/NDF:1235.9/25

All: -0.113+/-0.003 $\chi^2$/NDF: 2201.3/47




Right In: -4.124+/-0.382 $\chi^2$/NDF: 287.9/15

Left Out: -11.002+/-0.228 $\chi^2$/NDF:709.3/6

Right Out: -5.930+/-0.408 $\chi^2$/NDF: 482.6/18

Left In: -8.597+/-0.227 $\chi^2$/NDF:689.3/5

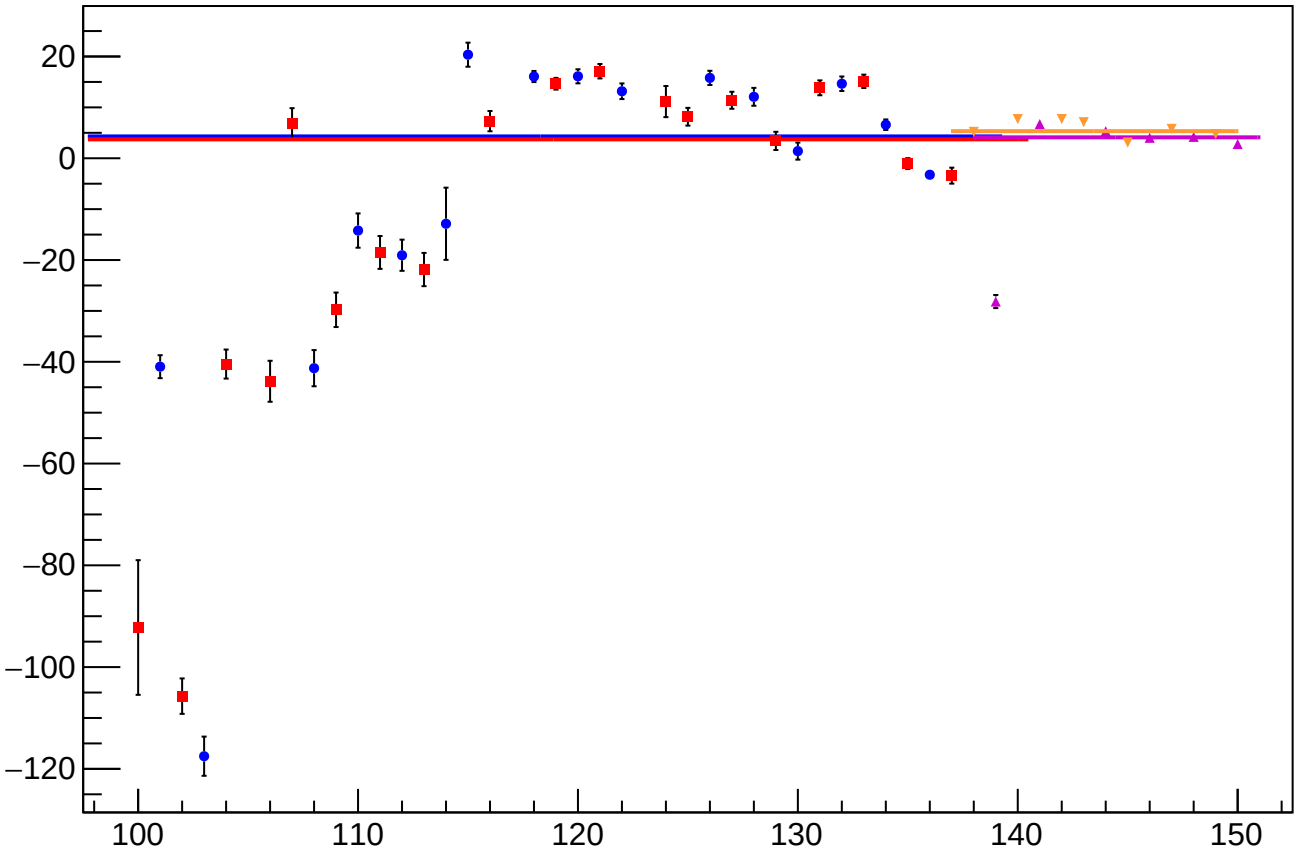
Left: -9.792+/-0.161 $\chi^2$/NDF: 1454.6/12

Right: -4.968+/-0.279 $\chi^2$/NDF: 781.0/34

In: -7.432+/-0.195 $\chi^2$/NDF:1078.8/21

Out: -9.794+/-0.199 $\chi^2$/NDF:1309.8/25

All: -8.588+/-0.139 $\chi^2$/NDF: 2460.5/47




Right In: 4.292+/-0.385 $\chi^2$/NDF: 2169.1/15

Left Out: 5.327+/-0.167 $\chi^2$/NDF:115.3/6

Right Out: 3.717+/-0.423 $\chi^2$/NDF: 2007.2/18

Left In: 4.113+/-0.153 $\chi^2$/NDF:684.8/5

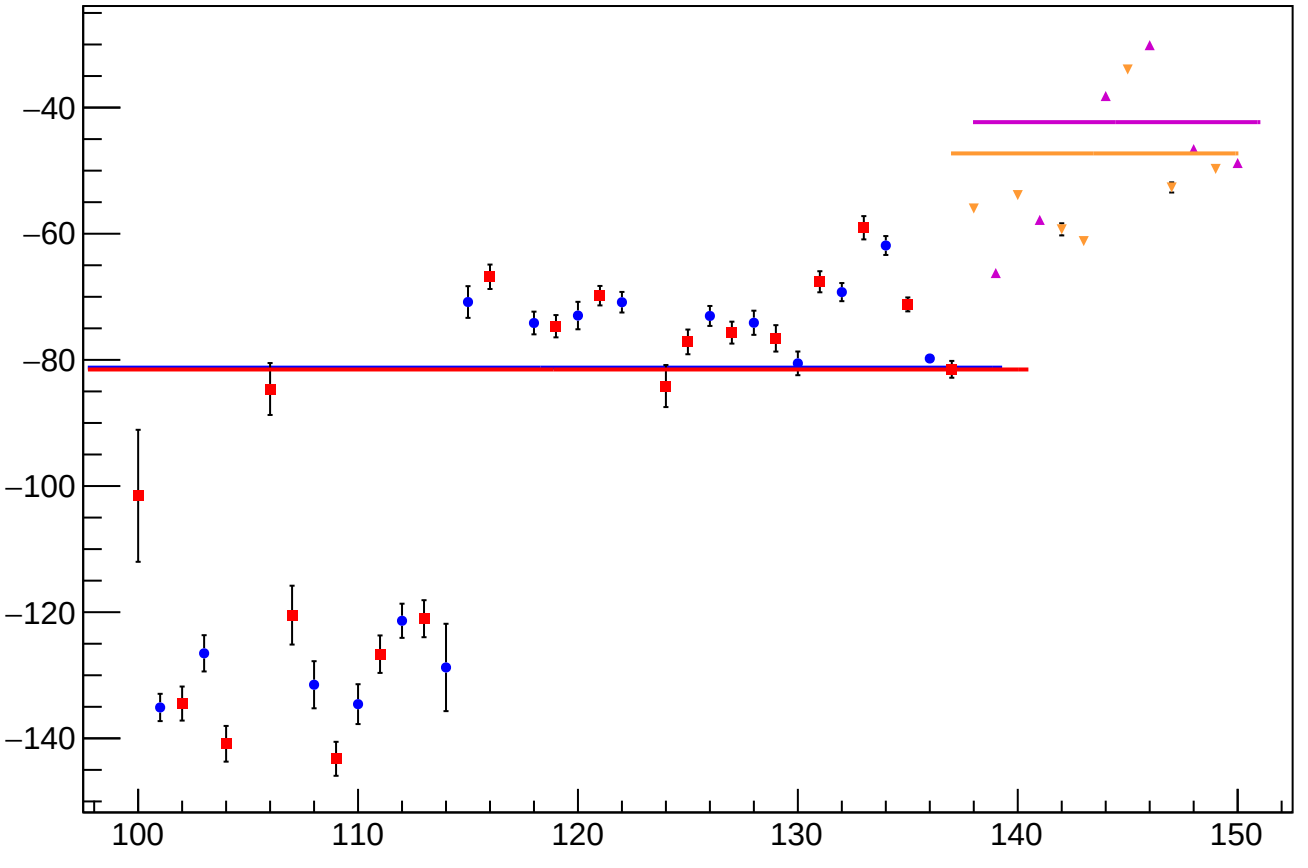
Left: 4.668+/-0.113 $\chi^2$/NDF: 828.8/12

Right: 4.031+/-0.285 $\chi^2$/NDF: 4177.4/34

In: 4.138+/-0.142 $\chi^2$/NDF:2854.1/21

Out: 5.109+/-0.155 $\chi^2$/NDF:2135.1/25

All: 4.581+/-0.105 $\chi^2$/NDF: 5010.5/47




Right In: -81.231+/-0.417 $\chi^2$/NDF: 1971.1/15

Left Out: -47.269+/-0.232 $\chi^2$/NDF:2153.9/6

Right Out: -81.523+/-0.462 $\chi^2$/NDF: 2293.2/18

Left In: -42.311+/-0.225 $\chi^2$/NDF:2796.5/5

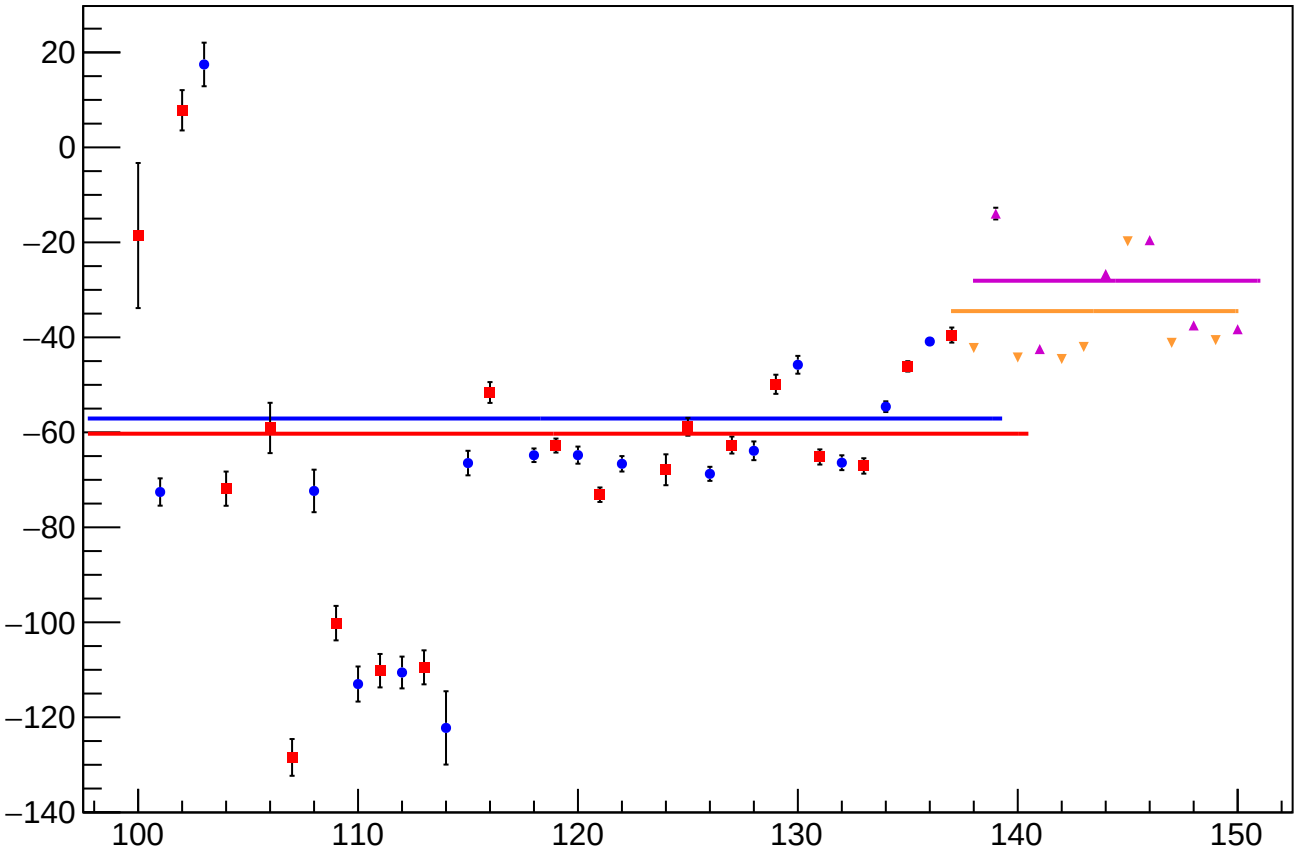
Left: -44.719+/-0.161 $\chi^2$/NDF: 5186.1/12

Right: -81.362+/-0.309 $\chi^2$/NDF: 4264.5/34

In: -51.095+/-0.198 $\chi^2$/NDF:11518.1/21

Out: -54.158+/-0.207 $\chi^2$/NDF:8846.2/25

All: -52.558+/-0.143 $\chi^2$/NDF: 20478.7/47




Right In: -57.089+/-0.426 $\chi^2$/NDF: 1526.8/15

Left Out: -34.473+/-0.201 $\chi^2$/NDF:2907.2/6

Right Out: -60.287+/-0.470 $\chi^2$/NDF: 1587.9/18

Left In: -28.077+/-0.188 $\chi^2$/NDF:2204.3/5

Left: -31.054+/-0.137 $\chi^2$/NDF: 5652.6/12

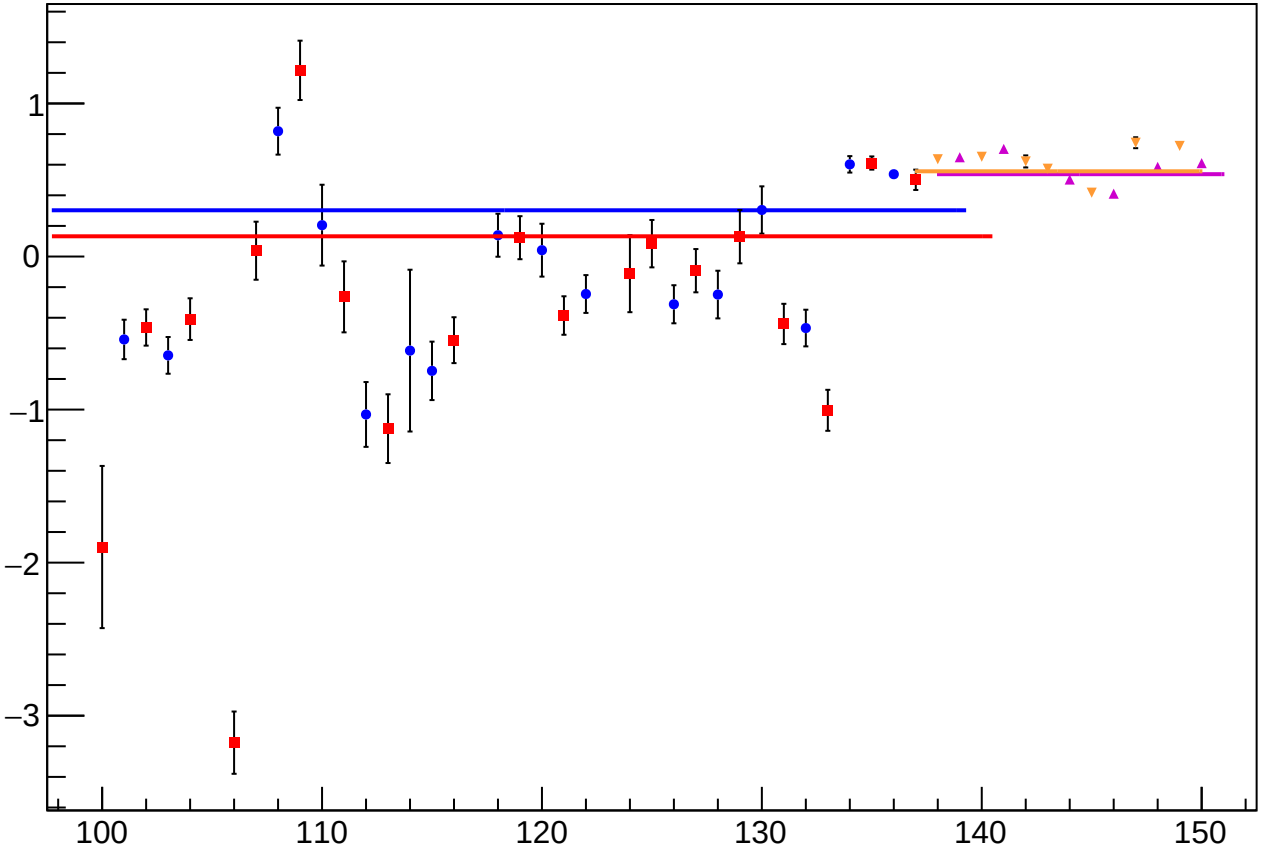
Right: -58.530+/-0.316 $\chi^2$/NDF: 3140.1/34

In: -32.794+/-0.172 $\chi^2$/NDF:7619.9/21

Out: -38.465+/-0.185 $\chi^2$/NDF:7044.9/25

All: -35.420+/-0.126 $\chi^2$/NDF: 15170.3/47

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.302+/-0.023 $\chi^2$/NDF: 374.8/15

Left Out: 0.557+/-0.010 $\chi^2$/NDF:166.2/6

Right Out: 0.132+/-0.027 $\chi^2$/NDF: 672.5/18

Left In: 0.538+/-0.009 $\chi^2$/NDF:123.8/5

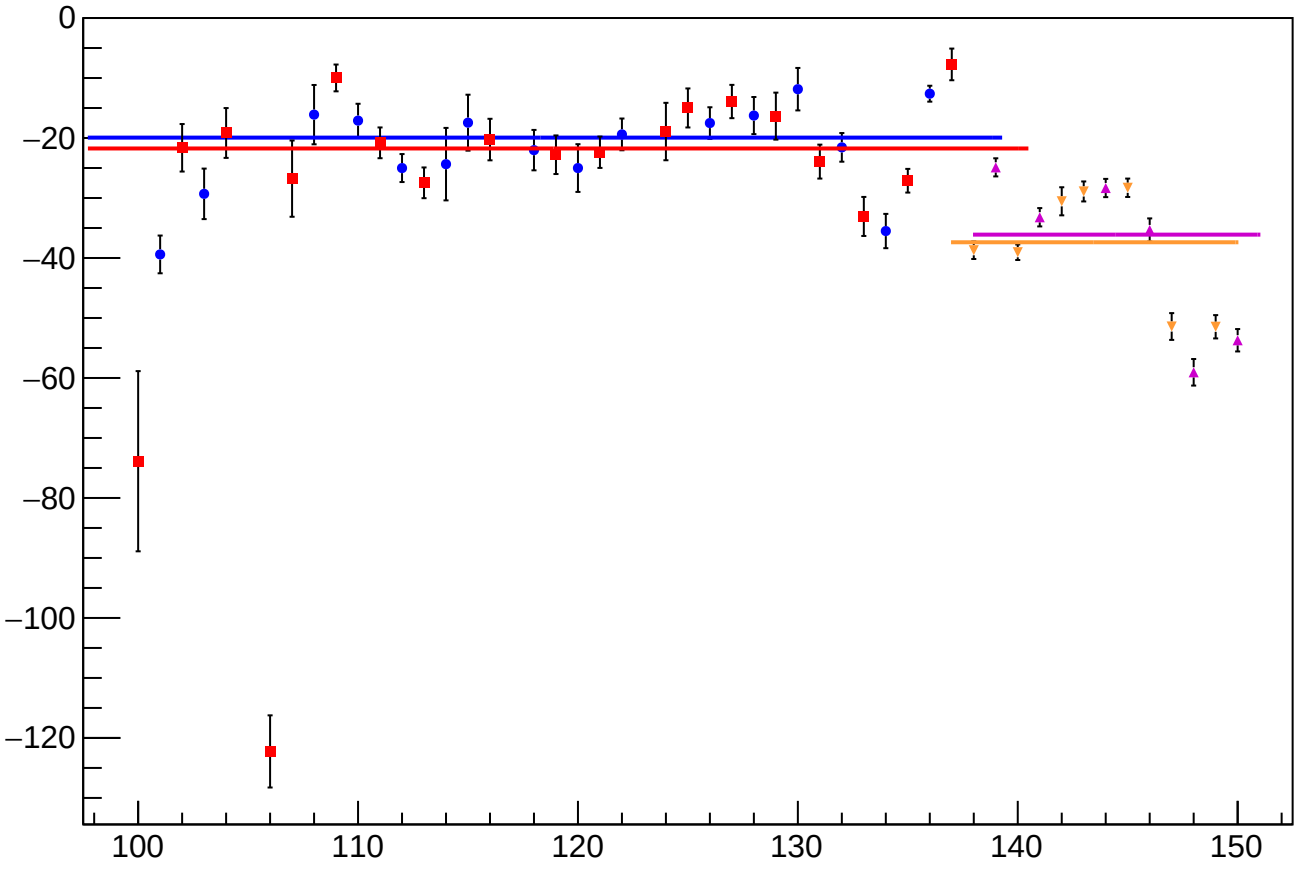
Left: 0.547+/-0.007 $\chi^2$/NDF: 292.0/12

Right: 0.229+/-0.017 $\chi^2$/NDF: 1070.8/34

In: 0.504+/-0.009 $\chi^2$/NDF:589.0/21

Out: 0.508+/-0.009 $\chi^2$/NDF:1065.8/25

All: 0.506+/-0.006 $\chi^2$/NDF: 1654.9/47




Right In: -19.935+/-0.695 $\chi^2$/NDF: 120.6/15

Left Out: -37.380+/-0.633 $\chi^2$/NDF:164.0/6

Right Out: -21.746+/-0.714 $\chi^2$/NDF: 388.3/18

Left In: -36.107+/-0.697 $\chi^2$/NDF:281.5/5

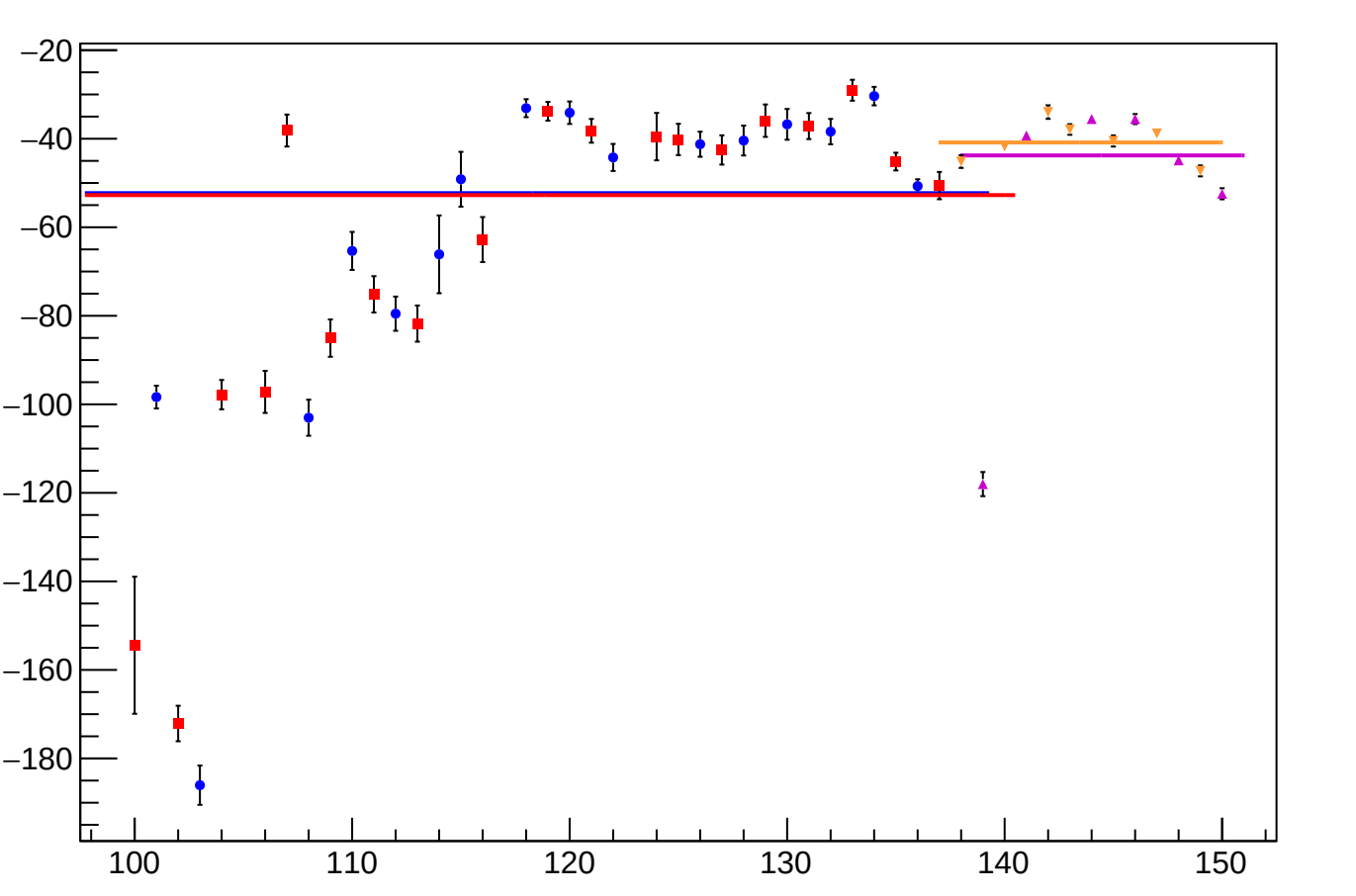
Left: -36.805+/-0.468 $\chi^2$/NDF: 447.3/12

Right: -20.816+/-0.498 $\chi^2$/NDF: 512.2/34

In: -27.998+/-0.492 $\chi^2$/NDF:672.2/21

Out: -30.500+/-0.473 $\chi^2$/NDF:821.1/25

All: -29.297+/-0.341 $\chi^2$/NDF: 1506.7/47




Right In: -52.296+/-0.708 $\chi^2$/NDF: 1778.2/15

Left Out: -40.839+/-0.462 $\chi^2$/NDF:66.4/6

Right Out: -52.737+/-0.748 $\chi^2$/NDF: 1662.5/18

Left In: -43.770+/-0.497 $\chi^2$/NDF:913.1/5

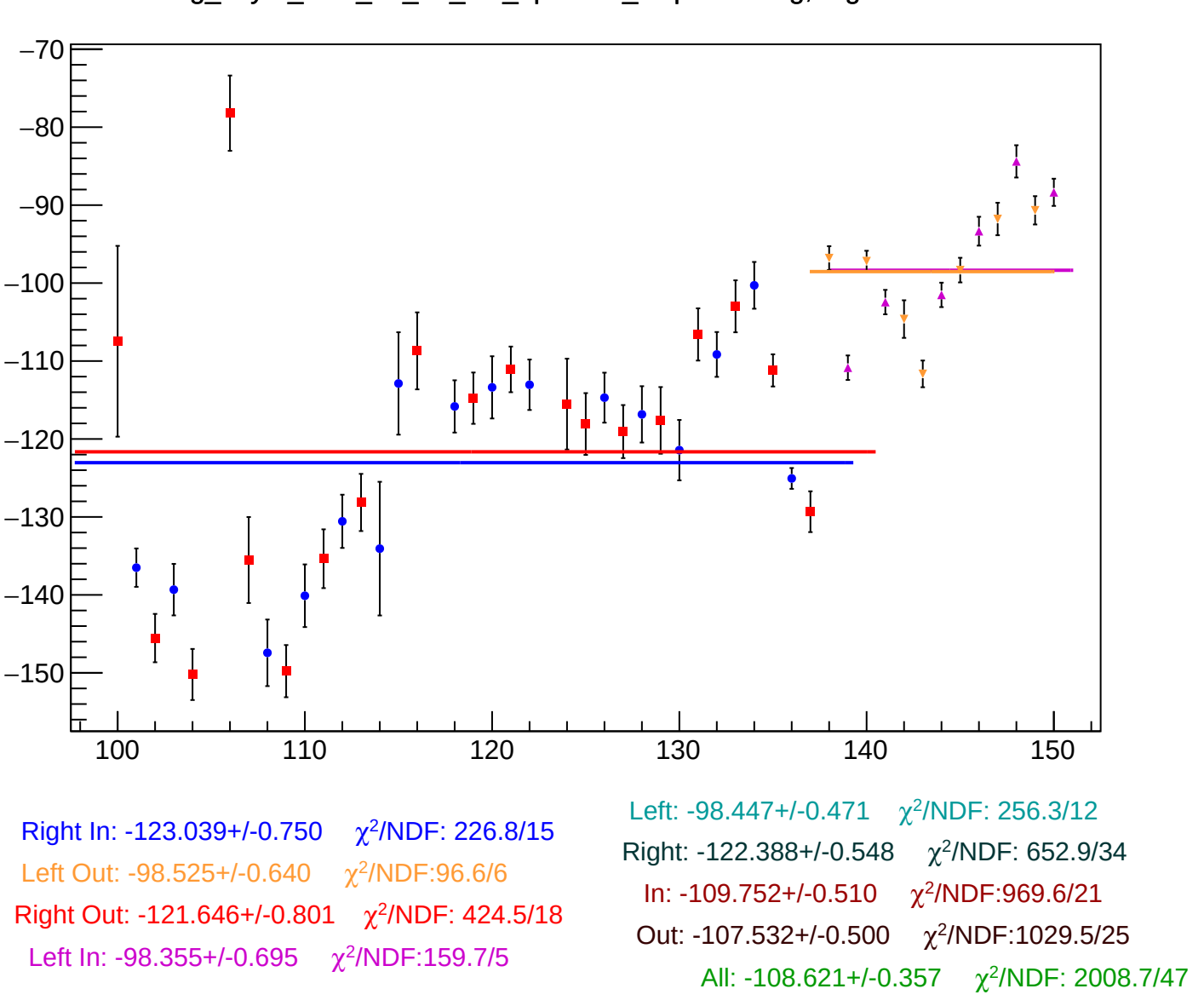
Left: -42.199+/-0.339 $\chi^2$/NDF: 998.1/12

Right: -52.505+/-0.514 $\chi^2$/NDF: 3440.9/34

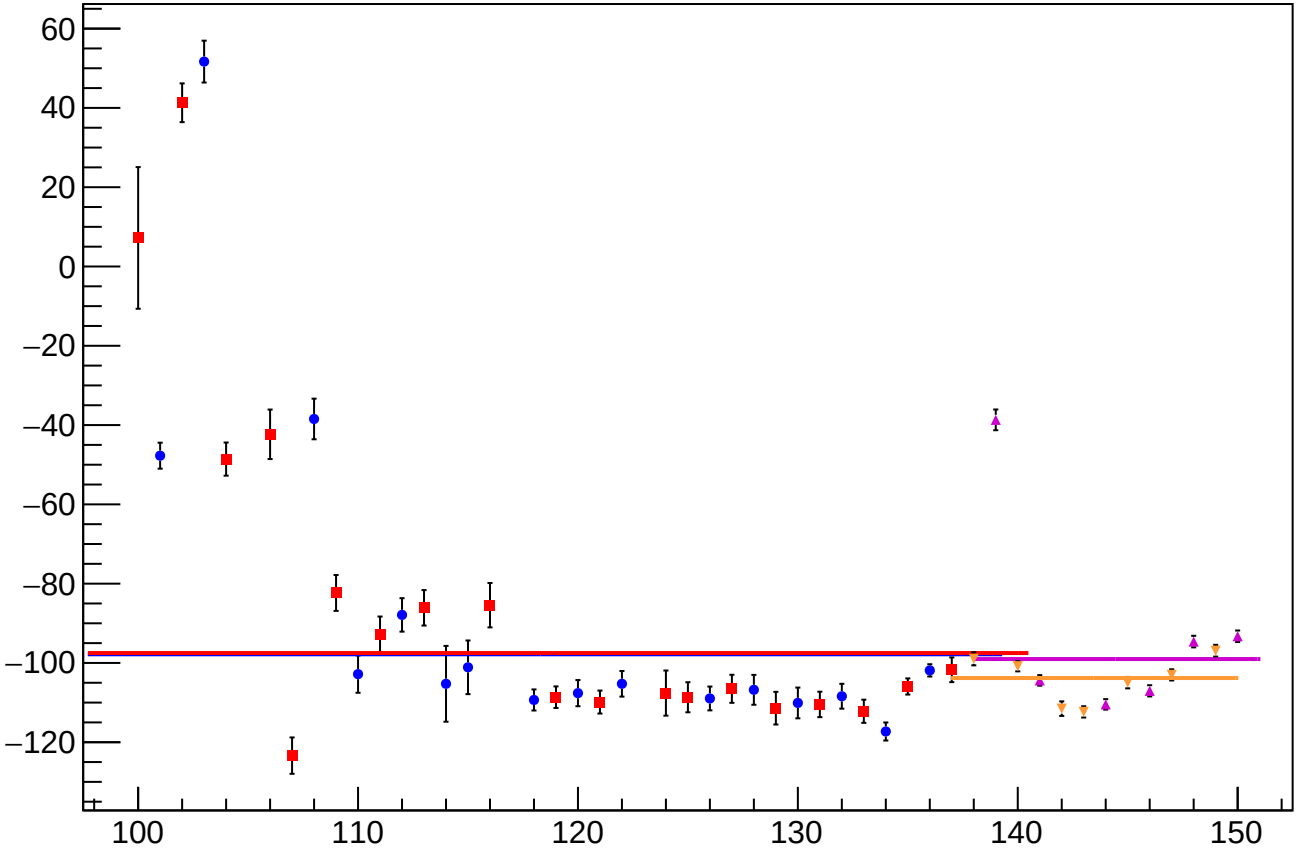
In: -46.586+/-0.407 $\chi^2$/NDF:2788.4/21

Out: -44.128+/-0.393 $\chi^2$/NDF:1911.9/25

All: -45.316+/-0.283 $\chi^2$/NDF: 4719.1/47


reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
−70
−80
−90
−100
−110
−120
−130
−140
−150
100
110
120
130
140
150
Right In: -123.039+/-0.750 χ²/NDF: 226.8/15
Left Out: -98.525+/-0.640 χ²/NDF:96.6/6
Right Out: -121.646+/-0.801 χ²/NDF: 424.5/18
Left In: -98.355+/-0.695 χ²/NDF:159.7/5
Left: -98.447+/-0.471 χ²/NDF: 256.3/12
Right: -122.388+/-0.548 χ²/NDF: 652.9/34
In: -109.752+/-0.510 χ²/NDF:969.6/21
Out: -107.532+/-0.500 χ²/NDF:1029.5/25
All: -108.621+/-0.357 χ²/NDF: 2008.7/47

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -97.814+/-0.793 $\chi^2$/NDF: 1330.8/15

Left Out: -103.804+/-0.560 $\chi^2$/NDF:89.9/6

Right Out: -97.504+/-0.843 $\chi^2$/NDF: 1236.4/18

Left In: -99.018+/-0.605 $\chi^2$/NDF:680.9/5

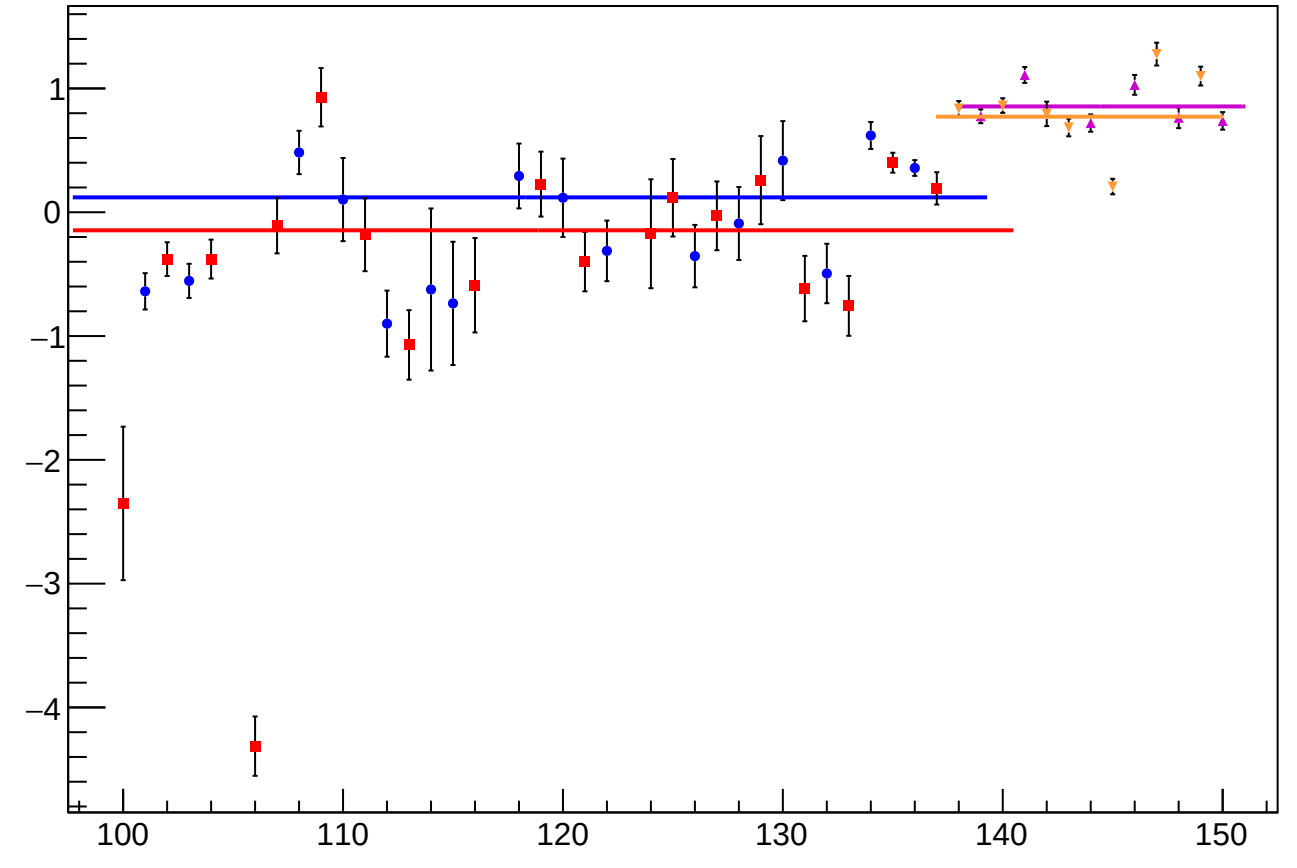
Left: -101.594+/-0.411 $\chi^2$/NDF: 804.5/12

Right: -97.668+/-0.578 $\chi^2$/NDF: 2567.3/34

In: -98.575+/-0.481 $\chi^2$/NDF:2013.2/21

Out: -101.873+/-0.467 $\chi^2$/NDF:1365.1/25

All: -100.274+/-0.335 $\chi^2$/NDF: 3402.5/47




Right In: 0.120+/-0.041 $\chi^2$/NDF: 123.9/15

Left Out: 0.772+/-0.027 $\chi^2$/NDF:134.8/6

Right Out: -0.146+/-0.045 $\chi^2$/NDF: 421.0/18

Left In: 0.855+/-0.028 $\chi^2$/NDF:30.0/5

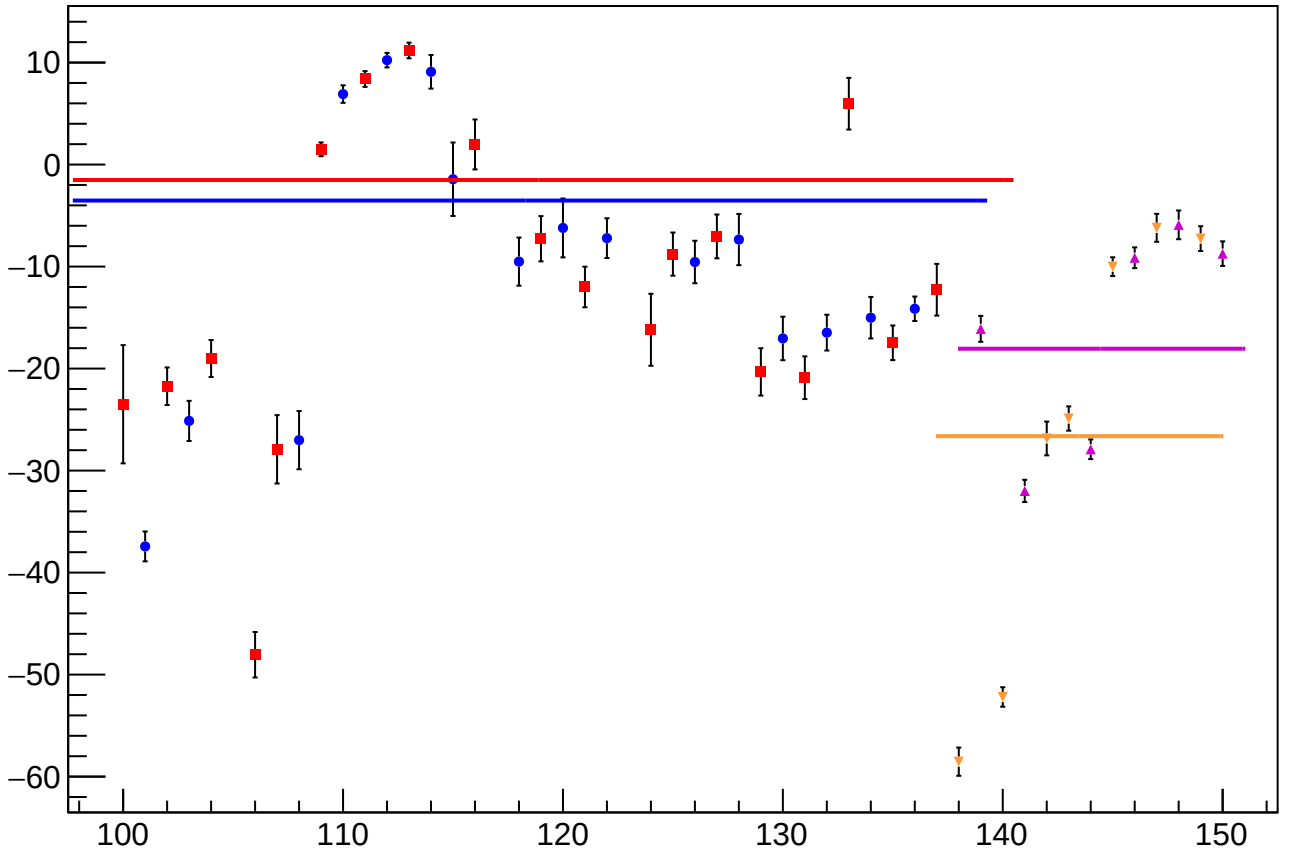
Left: 0.811+/-0.019 $\chi^2$/NDF: 169.4/12

Right: -0.002+/-0.030 $\chi^2$/NDF: 563.9/34

In: 0.621+/-0.023 $\chi^2$/NDF:370.5/21

Out: 0.532+/-0.023 $\chi^2$/NDF:864.6/25

All: 0.576+/-0.016 $\chi^2$/NDF: 1242.7/47




Right In: -3.527+/-0.377 $\chi^2$/NDF: 1529.1/15

Left Out: -26.625+/-0.444 $\chi^2$/NDF:2054.7/6

Right Out: -1.513+/-0.338 $\chi^2$/NDF: 1524.7/18

Left In: -18.054+/-0.462 $\chi^2$/NDF:481.7/5

Left: -22.510+/-0.320 $\chi^2$/NDF: 2715.7/12

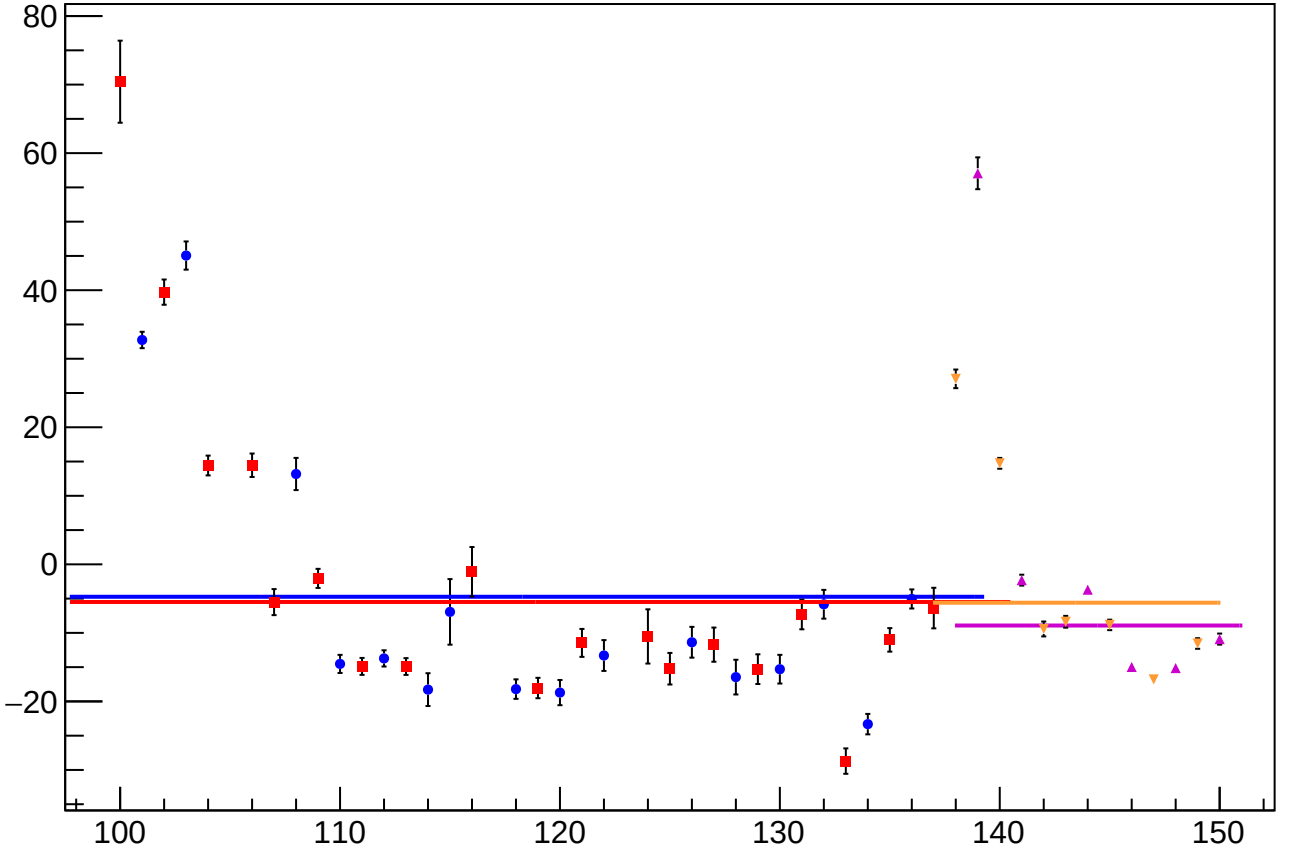
Right: -2.413+/-0.252 $\chi^2$/NDF: 3069.7/34

In: -9.337+/-0.292 $\chi^2$/NDF:2605.3/21

Out: -10.754+/-0.269 $\chi^2$/NDF:5605.4/25

All: -10.103+/-0.198 $\chi^2$/NDF: 8223.4/47

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.729+/-0.431 $\chi^2$/NDF: 2148.0/15

Left Out: -5.599+/-0.313 $\chi^2$/NDF:1651.4/6

Right Out: -5.491+/-0.422 $\chi^2$/NDF: 1508.6/18

Left In: -8.927+/-0.314 $\chi^2$/NDF:1118.6/5

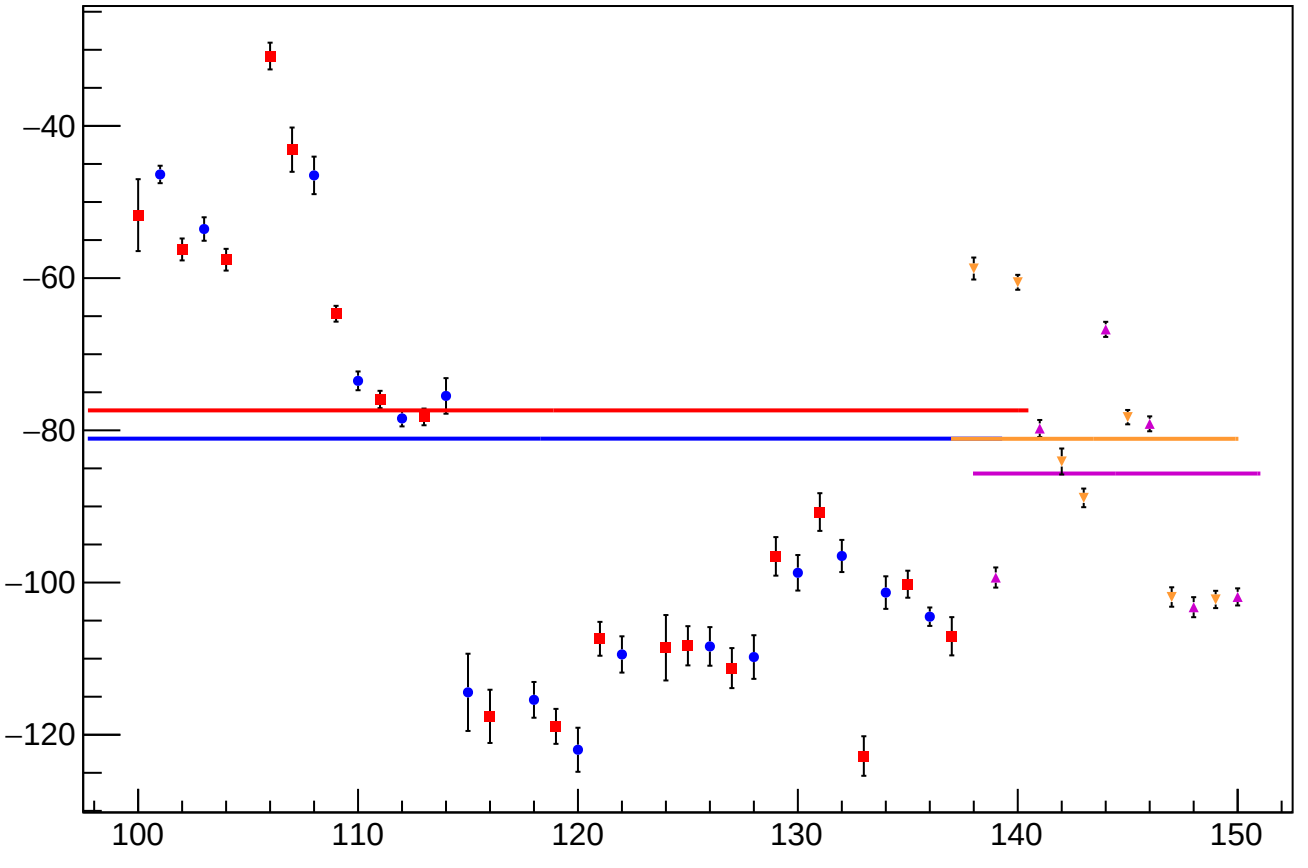
Left: -7.260+/-0.222 $\chi^2$/NDF: 2826.4/12

Right: -5.118+/-0.302 $\chi^2$/NDF: 3658.1/34

In: -7.473+/-0.254 $\chi^2$/NDF:3328.7/21

Out: -5.561+/-0.251 $\chi^2$/NDF:3160.0/25

All: -6.509+/-0.179 $\chi^2$/NDF: 6517.4/47




Right In: -81.091+/-0.438 $\chi^2$/NDF: 2870.3/15

Left Out: -81.113+/-0.446 $\chi^2$/NDF:1341.7/6

Right Out: -77.379+/-0.417 $\chi^2$/NDF: 3129.7/18

Left In: -85.676+/-0.457 $\chi^2$/NDF:928.1/5

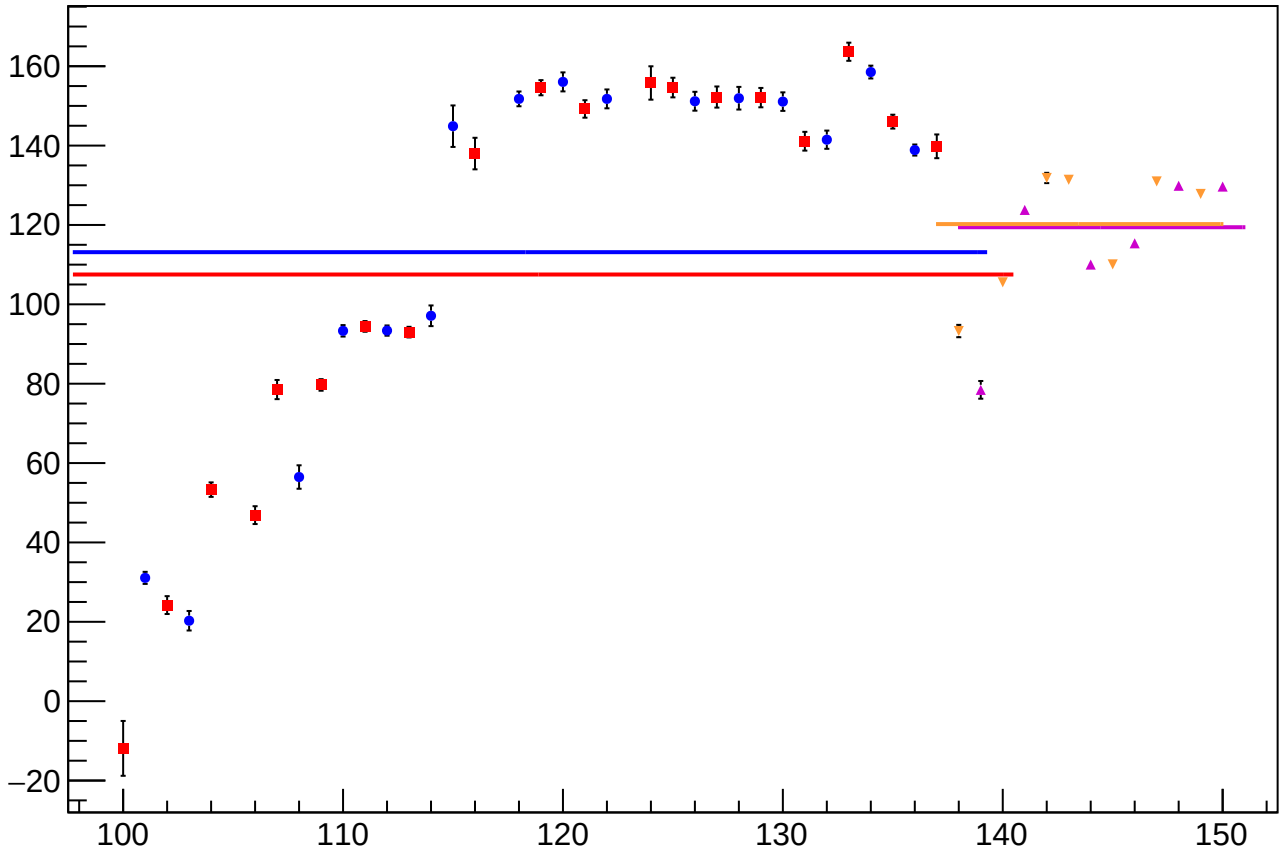
Left: -83.337+/-0.319 $\chi^2$/NDF: 2321.0/12

Right: -79.142+/-0.302 $\chi^2$/NDF: 6037.6/34

In: -83.289+/-0.316 $\chi^2$/NDF:3850.9/21

Out: -79.122+/-0.304 $\chi^2$/NDF:4508.8/25

All: -81.126+/-0.219 $\chi^2$/NDF: 8449.8/47




Right In: 113.143+/-0.489 $\chi^2$/NDF: 8204.1/15

Left Out: 120.219+/-0.381 $\chi^2$/NDF:1094.4/6

Right Out: 107.515+/-0.479 $\chi^2$/NDF: 7544.0/18

Left In: 119.427+/-0.384 $\chi^2$/NDF:761.0/5

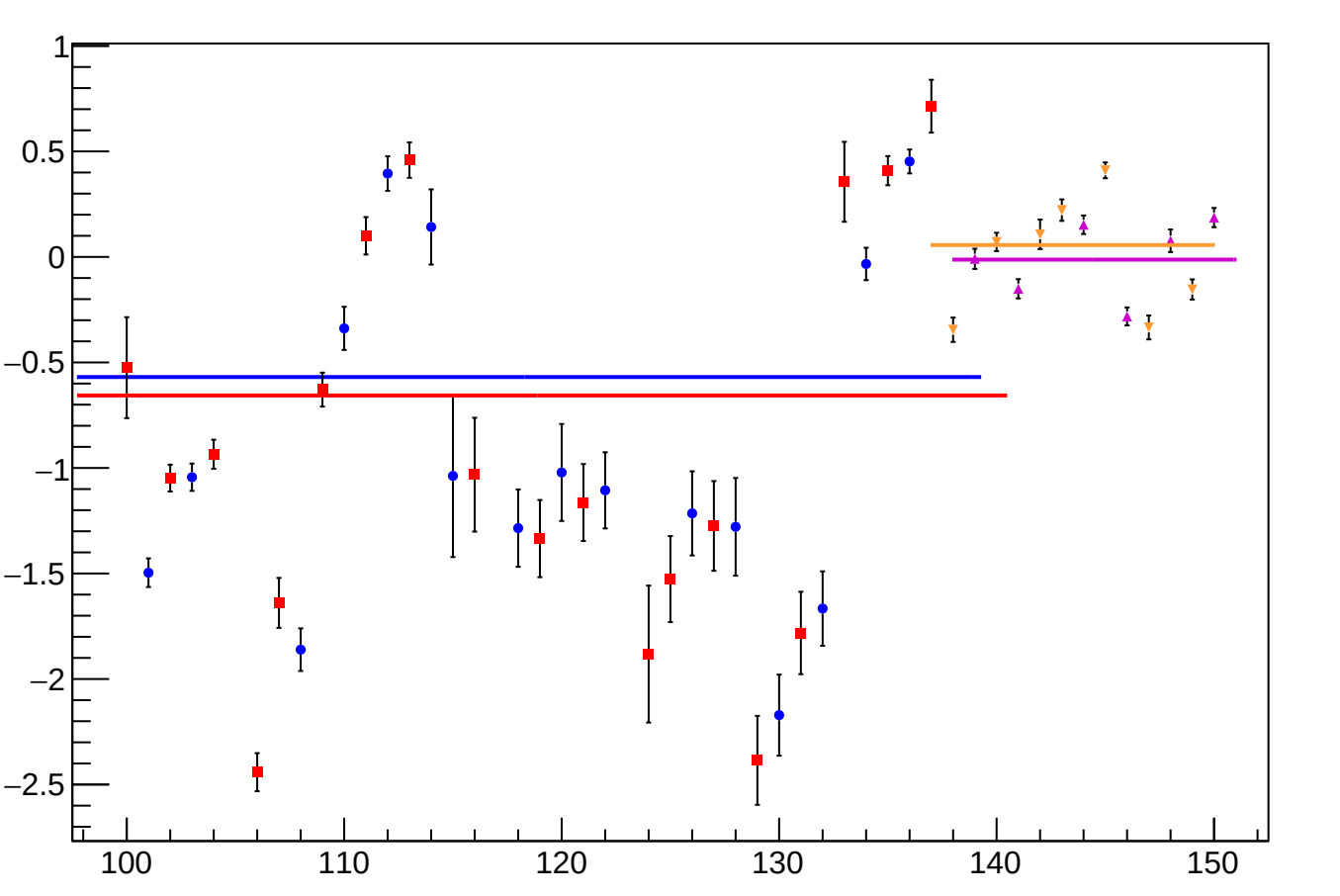
Left: 119.825+/-0.271 $\chi^2$/NDF: 1857.6/12

Right: 110.273+/-0.342 $\chi^2$/NDF: 15815.7/34

In: 117.031+/-0.302 $\chi^2$/NDF:9067.3/21

Out: 115.295+/-0.298 $\chi^2$/NDF:9068.5/25

All: 116.152+/-0.212 $\chi^2$/NDF: 18152.5/47




Right In: -0.569+/-0.026 $\chi^2$/NDF: 1097.4/15

Left Out: 0.057+/-0.019 $\chi^2$/NDF:216.1/6

Right Out: -0.656+/-0.025 $\chi^2$/NDF: 1315.2/18

Left In: -0.013+/-0.019 $\chi^2$/NDF:85.0/5

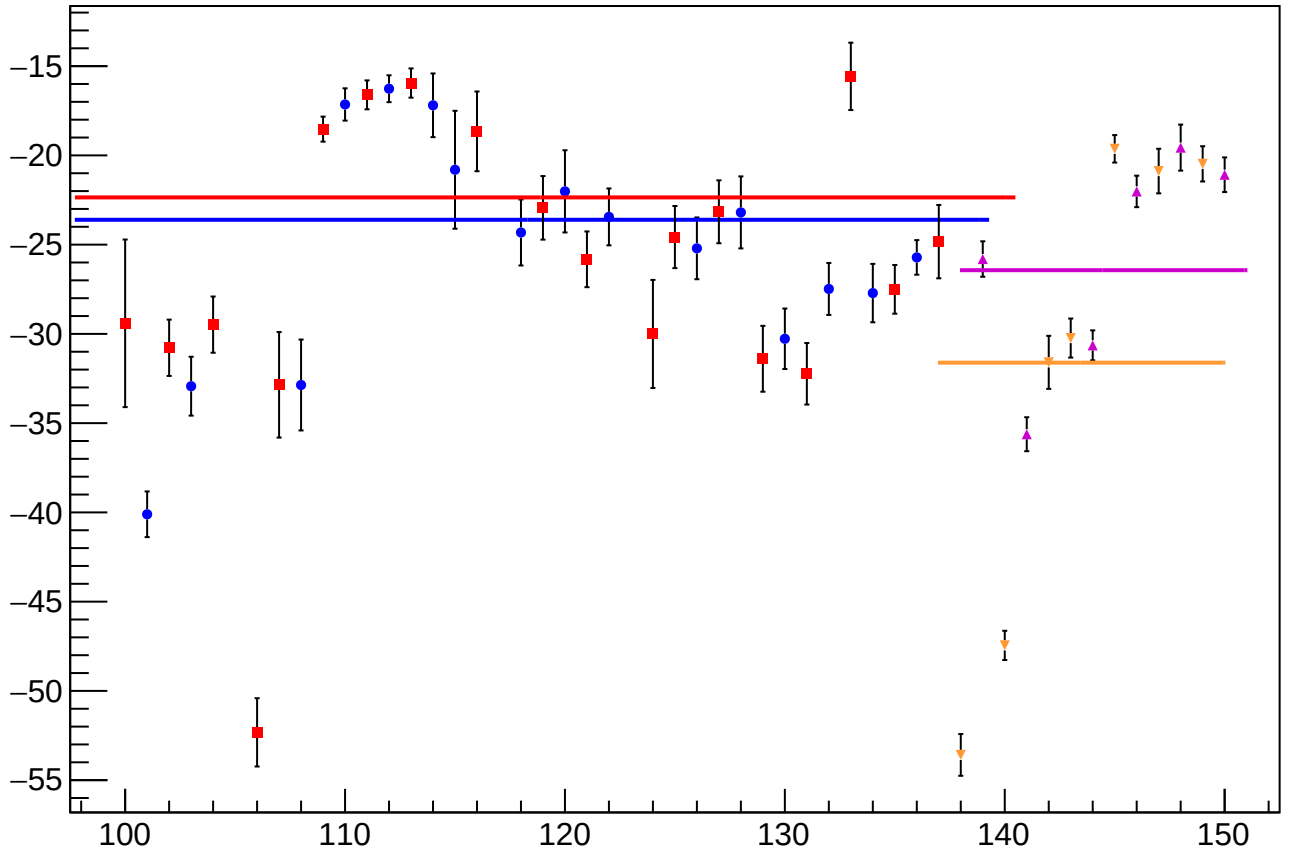
Left: 0.022+/-0.013 $\chi^2$/NDF: 308.0/12

Right: -0.614+/-0.018 $\chi^2$/NDF: 2418.5/34

In: -0.206+/-0.015 $\chi^2$/NDF:1485.9/21

Out: -0.195+/-0.015 $\chi^2$/NDF:2048.9/25

All: -0.201+/-0.011 $\chi^2$/NDF: 3535.1/47




Right In: -23.607+/-0.348 $\chi^2$/NDF: 406.4/15

Left Out: -31.611+/-0.382 $\chi^2$/NDF:1171.6/6

Right Out: -22.354+/-0.322 $\chi^2$/NDF: 551.7/18

Left In: -26.432+/-0.393 $\chi^2$/NDF:202.7/5

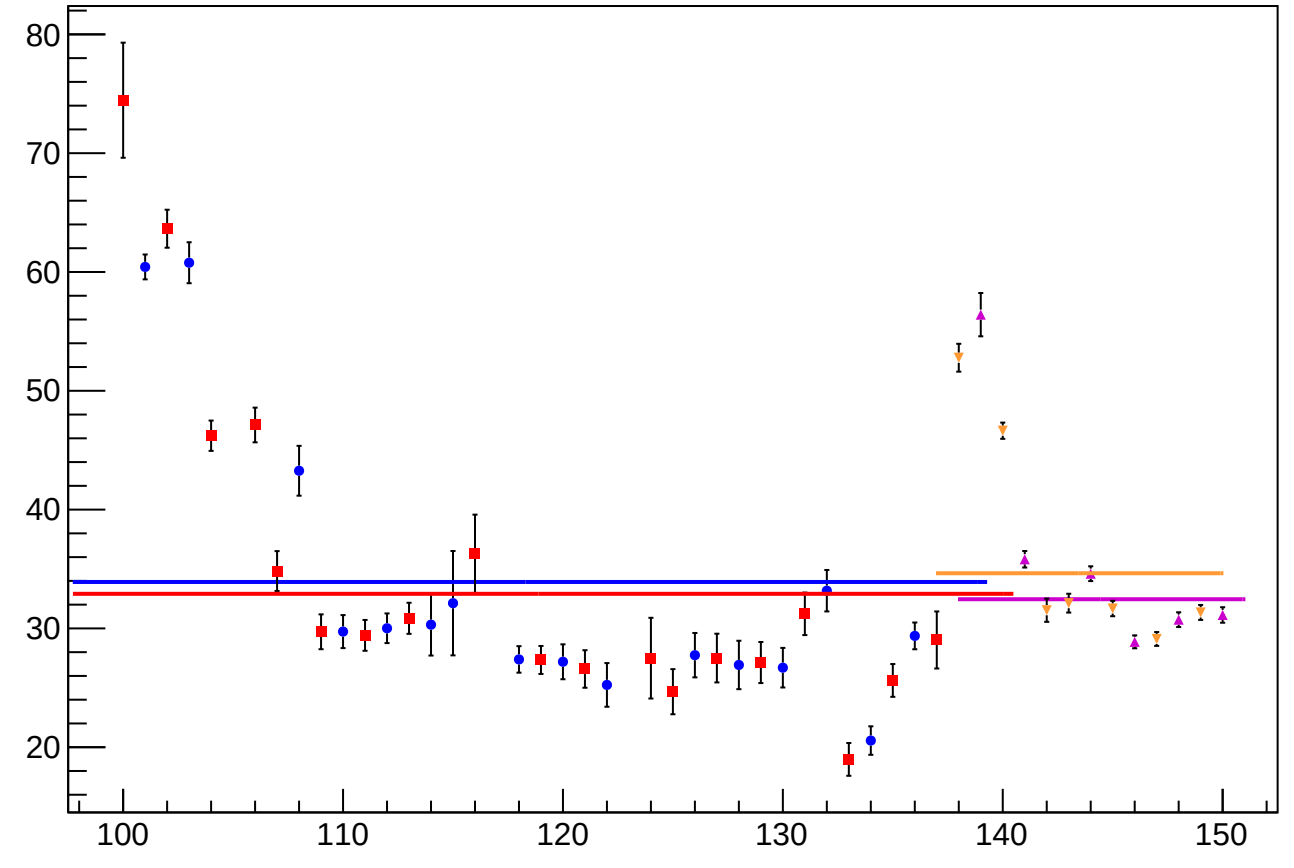
Left: -29.094+/-0.274 $\chi^2$/NDF: 1463.8/12

Right: -22.931+/-0.236 $\chi^2$/NDF: 965.1/34

In: -24.851+/-0.261 $\chi^2$/NDF:638.1/21

Out: -26.200+/-0.246 $\chi^2$/NDF:2067.2/25

All: -25.564+/-0.179 $\chi^2$/NDF: 2719.5/47




Right In: 33.909+/-0.375 $\chi^2$/NDF: 1184.4/15

Left Out: 34.643+/-0.274 $\chi^2$/NDF:707.2/6

Right Out: 32.911+/-0.373 $\chi^2$/NDF: 875.0/18

Left In: 32.456+/-0.275 $\chi^2$/NDF:263.4/5

Left: 33.553+/-0.194 $\chi^2$/NDF: 1002.4/12

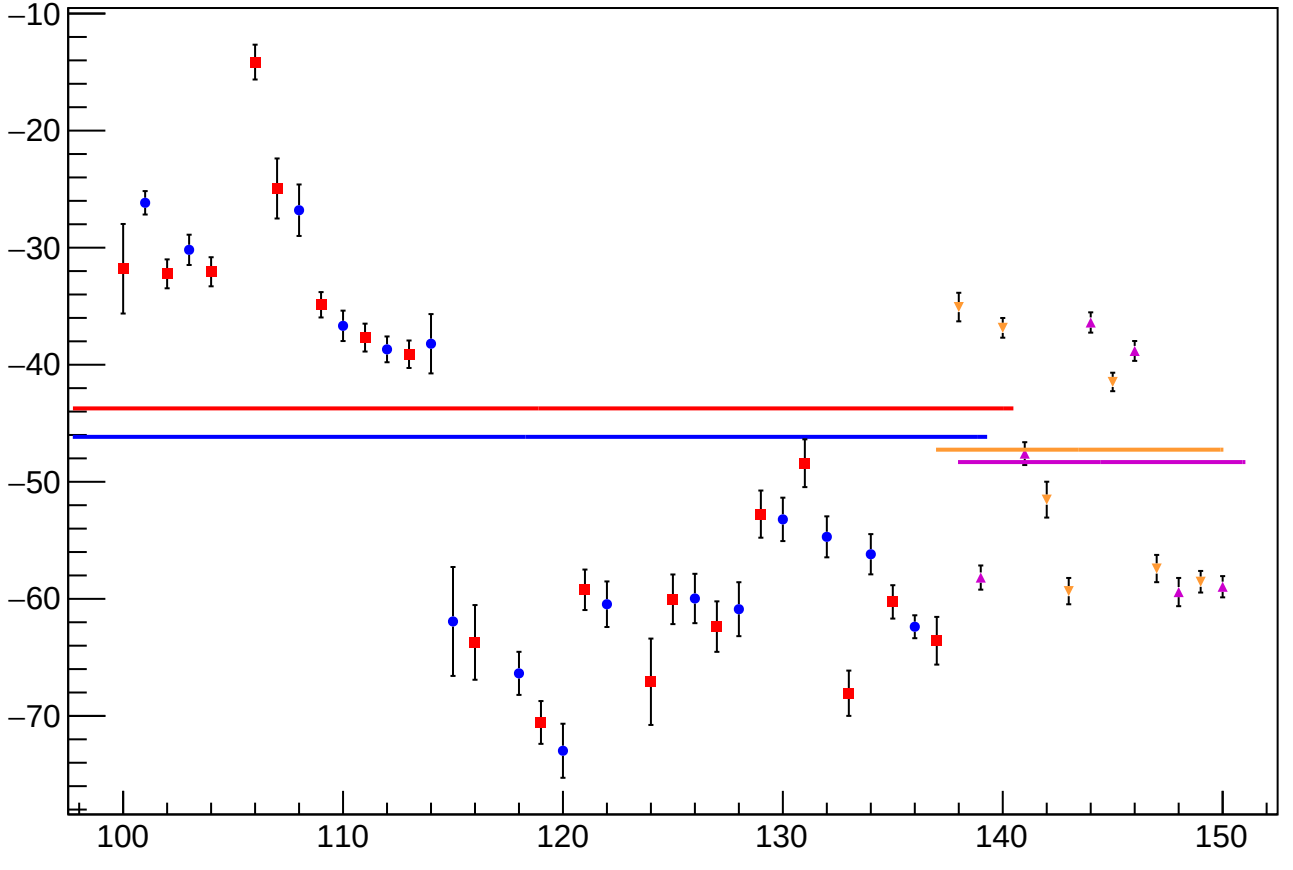
Right: 33.407+/-0.264 $\chi^2$/NDF: 2062.9/34

In: 32.962+/-0.222 $\chi^2$/NDF:1457.6/21

Out: 34.037+/-0.220 $\chi^2$/NDF:1596.2/25

All: 33.502+/-0.156 $\chi^2$/NDF: 3065.5/47

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -46.160+/-0.390 $\chi^2$/NDF: 1489.6/15

Left Out: -47.256+/-0.383 $\chi^2$/NDF:654.7/6

Right Out: -43.730+/-0.378 $\chi^2$/NDF: 1663.4/18

Left In: -48.315+/-0.389 $\chi^2$/NDF:629.2/5

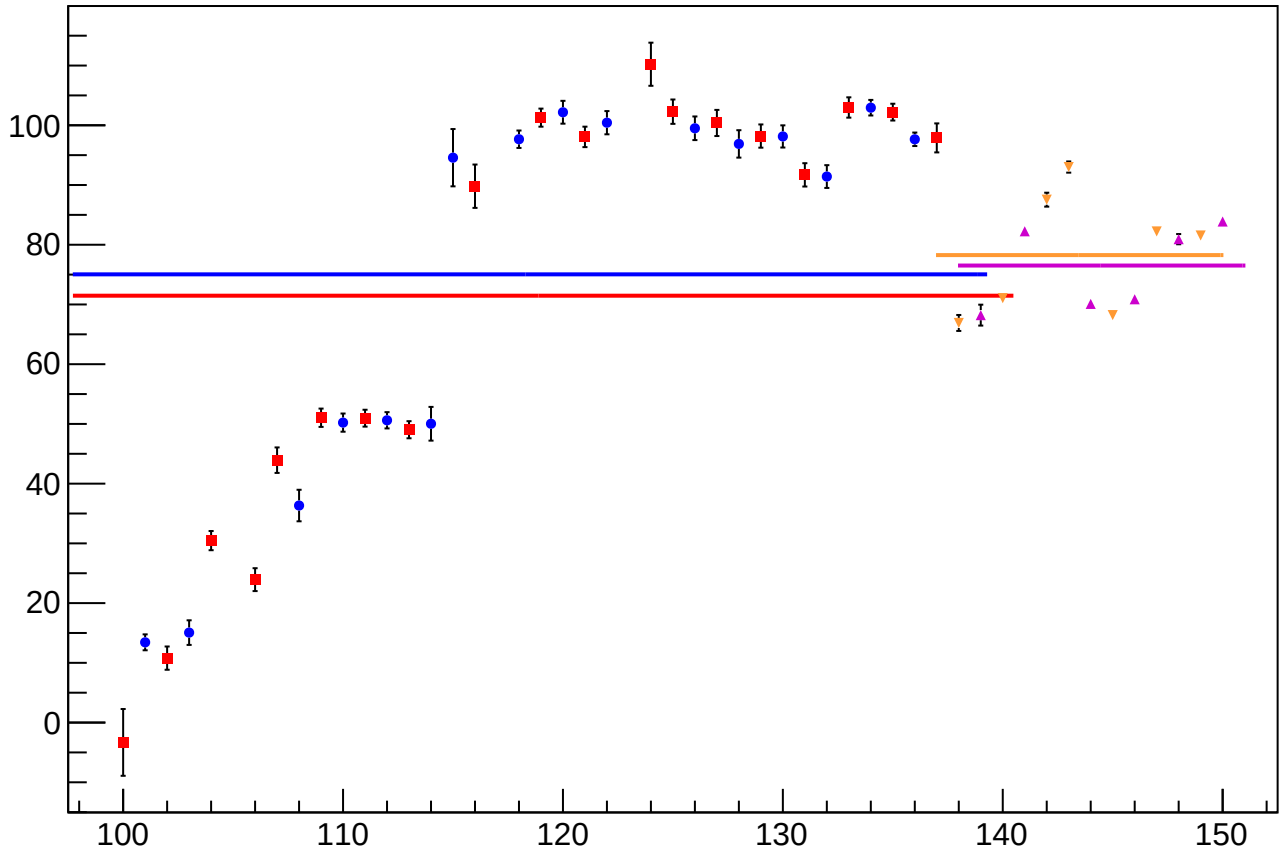
Left: -47.778+/-0.273 $\chi^2$/NDF: 1287.6/12

Right: -44.909+/-0.271 $\chi^2$/NDF: 3173.0/34

In: -47.241+/-0.275 $\chi^2$/NDF:2134.2/21

Out: -45.471+/-0.269 $\chi^2$/NDF:2360.9/25

All: -46.336+/-0.192 $\chi^2$/NDF: 4516.2/47




Right In: 75.042+/-0.427 $\chi^2$/NDF: 5828.3/15

Left Out: 78.266+/-0.331 $\chi^2$/NDF:690.6/6

Right Out: 71.468+/-0.426 $\chi^2$/NDF: 5628.2/18

Left In: 76.517+/-0.333 $\chi^2$/NDF:341.7/5

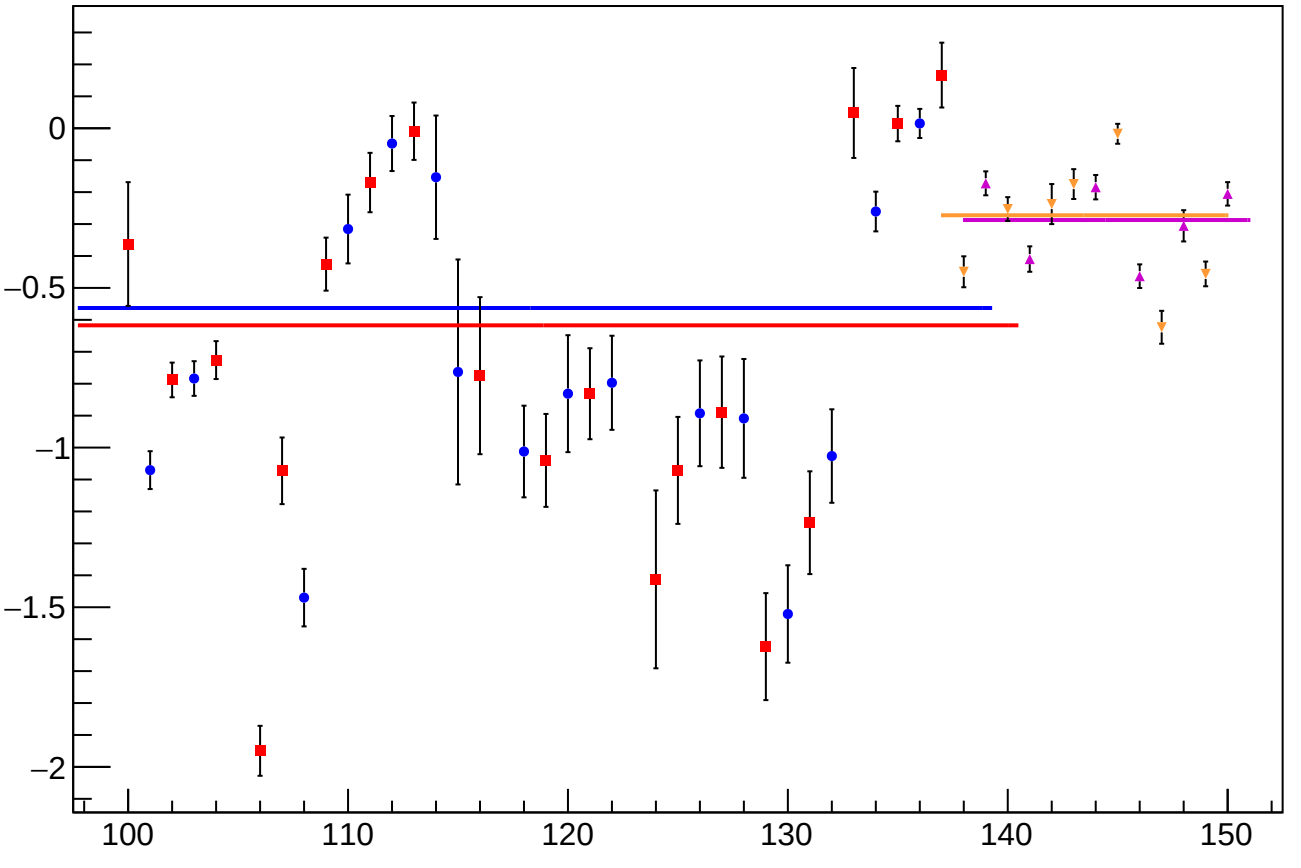
Left: 77.395+/-0.235 $\chi^2$/NDF: 1046.2/12

Right: 73.248+/-0.302 $\chi^2$/NDF: 11491.6/34

In: 75.960+/-0.263 $\chi^2$/NDF:6177.4/21

Out: 75.700+/-0.262 $\chi^2$/NDF:6477.6/25

All: 75.830+/-0.185 $\chi^2$/NDF: 12655.5/47




Right In: -0.563+/-0.022 $\chi^2$/NDF: 493.0/15

Left Out: -0.272+/-0.016 $\chi^2$/NDF:154.0/6

Right Out: -0.617+/-0.022 $\chi^2$/NDF: 690.0/18

Left In: -0.287+/-0.016 $\chi^2$/NDF:53.8/5

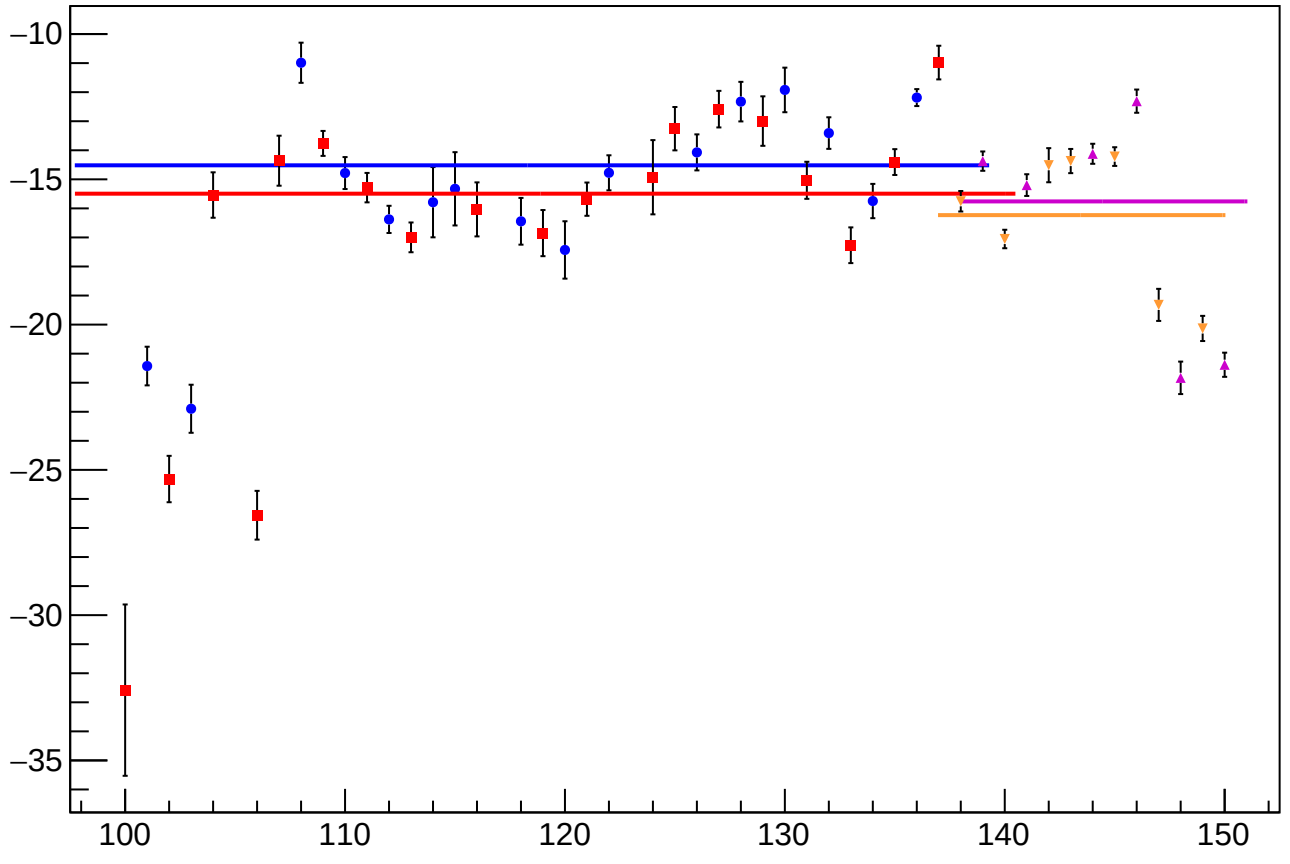
Left: -0.280+/-0.011 $\chi^2$/NDF: 208.2/12

Right: -0.590+/-0.016 $\chi^2$/NDF: 1186.0/34

In: -0.381+/-0.013 $\chi^2$/NDF:648.0/21

Out: -0.390+/-0.013 $\chi^2$/NDF:1003.1/25

All: -0.386+/-0.009 $\chi^2$/NDF: 1651.4/47




Right In: -14.518+/-0.149 $\chi^2$/NDF: 363.3/15

Left Out: -16.232+/-0.149 $\chi^2$/NDF:188.7/6

Right Out: -15.494+/-0.150 $\chi^2$/NDF: 503.8/18

Left In: -15.760+/-0.158 $\chi^2$/NDF:417.5/5

Left: -16.010+/-0.109 $\chi^2$/NDF: 610.9/12

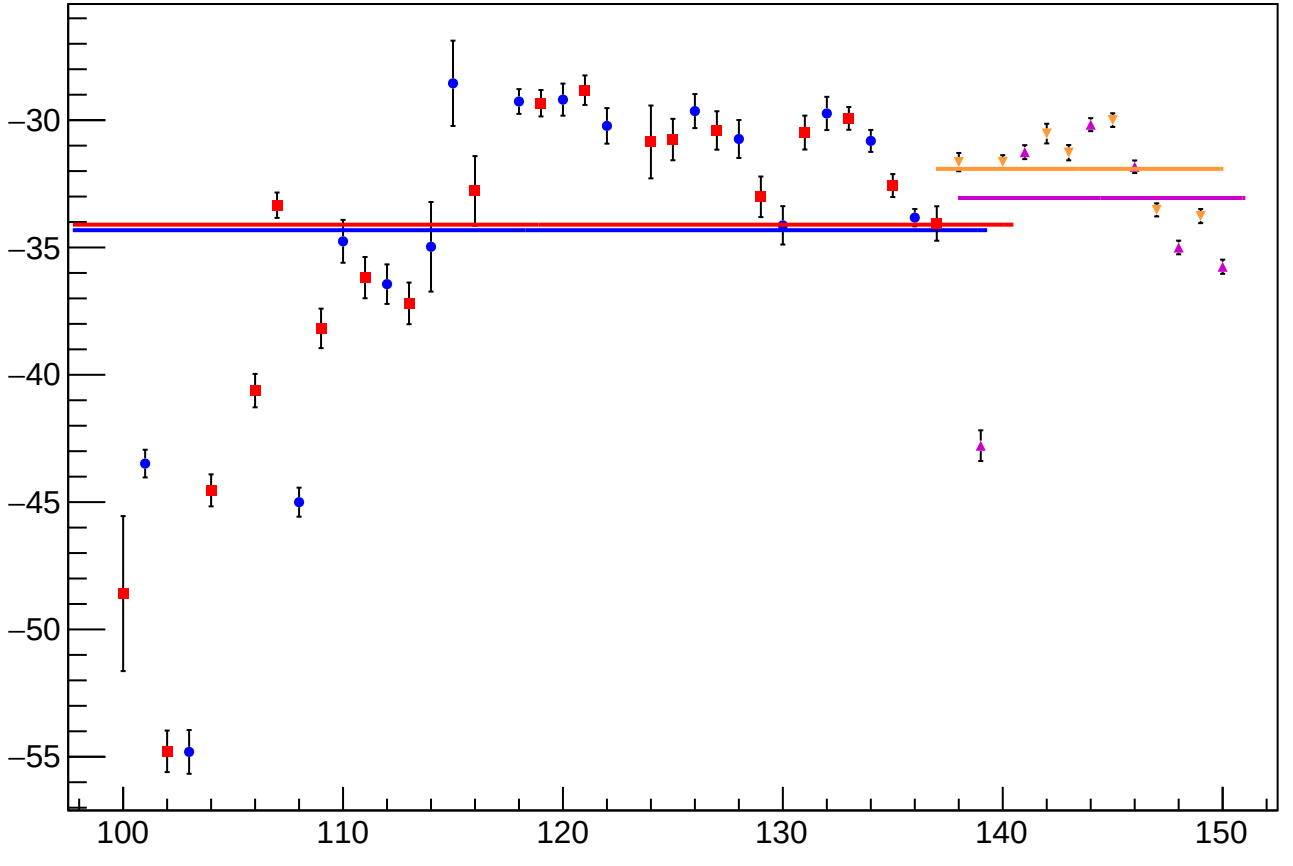
Right: -15.004+/-0.106 $\chi^2$/NDF: 888.5/34

In: -15.103+/-0.109 $\chi^2$/NDF:813.4/21

Out: -15.865+/-0.106 $\chi^2$/NDF:704.7/25

All: -15.494+/-0.076 $\chi^2$/NDF: 1543.3/47

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -34.321+/-0.153 $\chi^2$/NDF: 1620.5/15

Left Out: -31.912+/-0.111 $\chi^2$/NDF:153.5/6

Right Out: -34.104+/-0.154 $\chi^2$/NDF: 1434.8/18

Left In: -33.056+/-0.116 $\chi^2$/NDF:599.4/5

Left: -32.458+/-0.080 $\chi^2$/NDF: 803.9/12

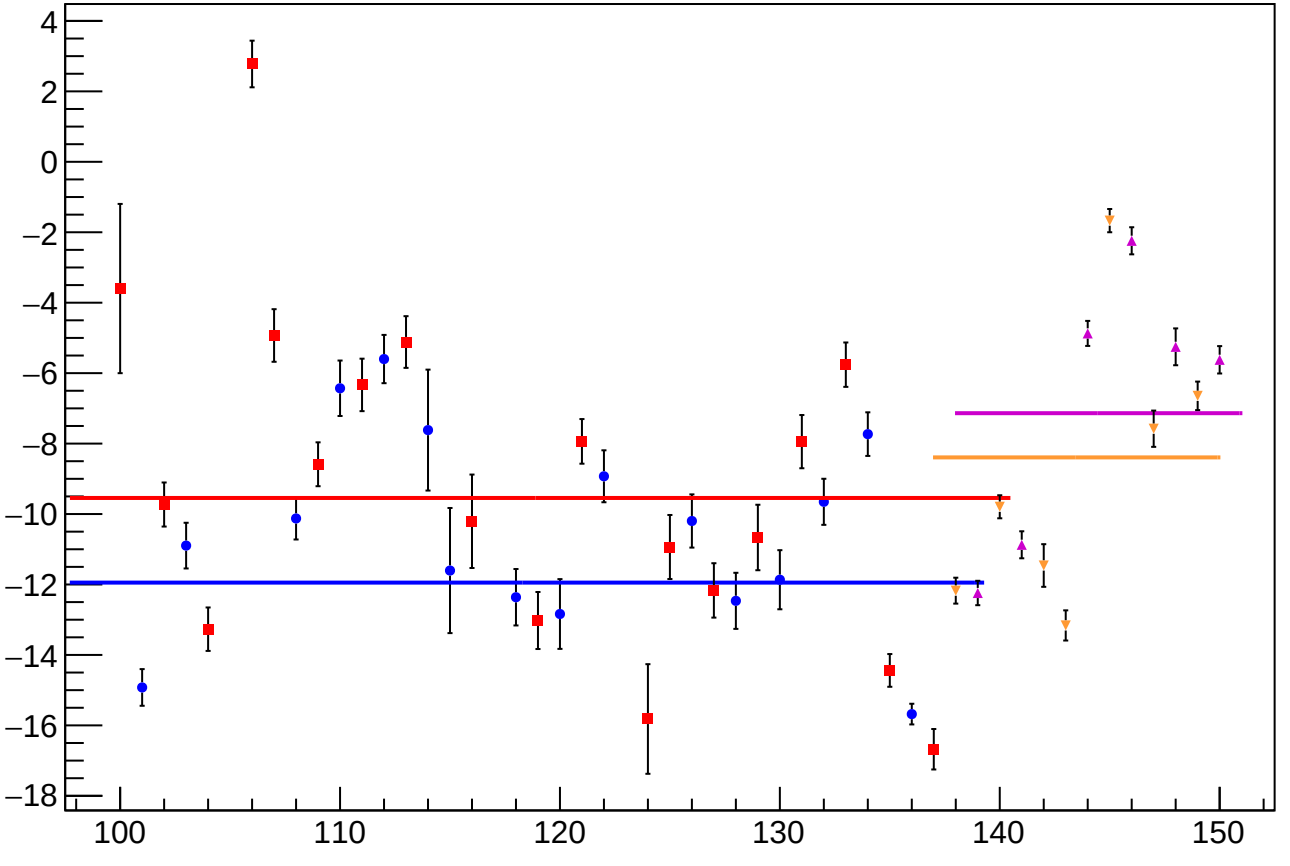
Right: -34.213+/-0.109 $\chi^2$/NDF: 3056.3/34

In: -33.516+/-0.092 $\chi^2$/NDF:2263.3/21

Out: -32.658+/-0.090 $\chi^2$/NDF:1721.7/25

All: -33.075+/-0.064 $\chi^2$/NDF: 4029.3/47

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -11.946+/-0.160 $\chi^2$/NDF: 430.0/15

Left Out: -8.392+/-0.151 $\chi^2$/NDF:709.8/6

Right Out: -9.544+/-0.165 $\chi^2$/NDF: 847.1/18

Left In: -7.137+/-0.158 $\chi^2$/NDF:542.9/5

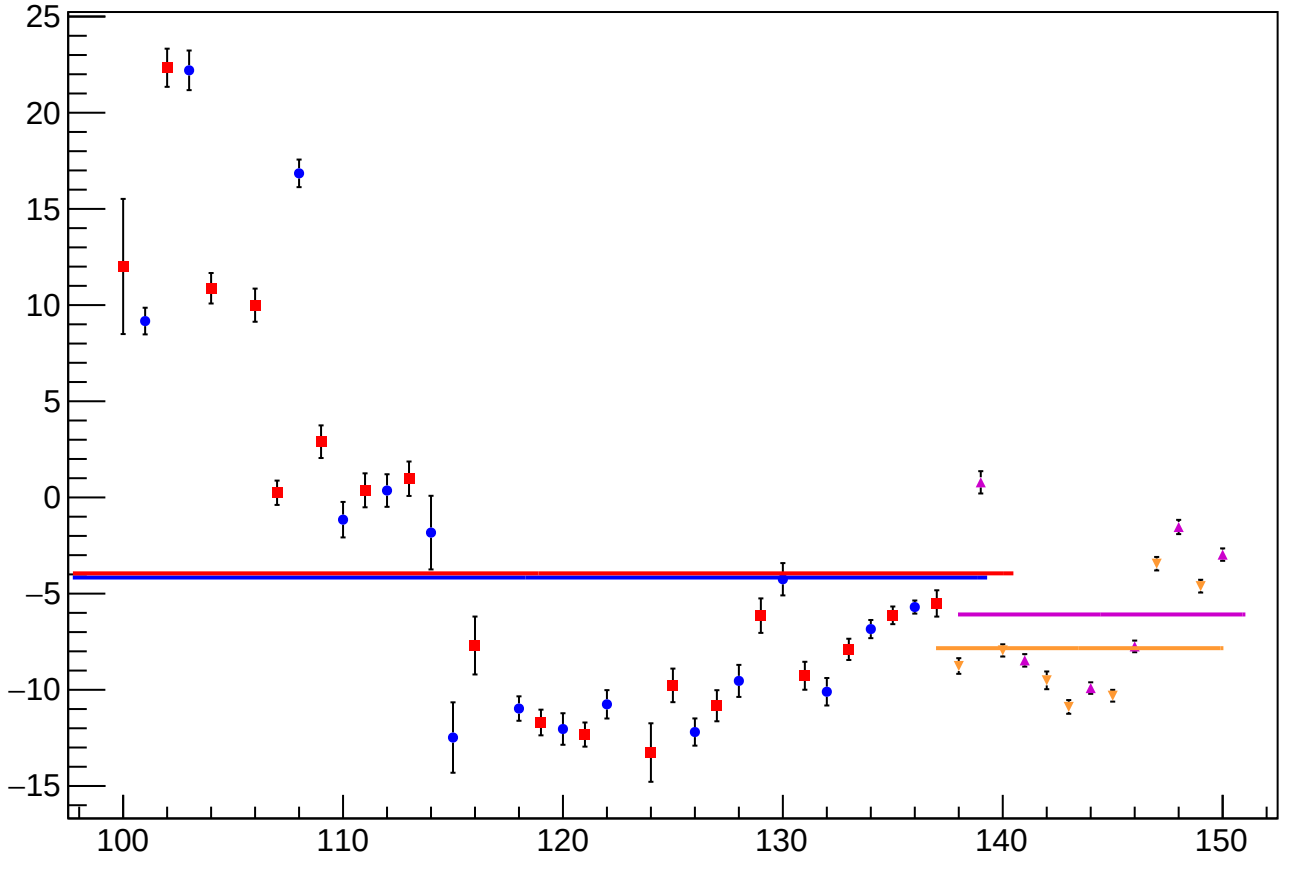
Left: -7.793+/-0.109 $\chi^2$/NDF: 1285.7/12

Right: -10.782+/-0.115 $\chi^2$/NDF: 1386.2/34

In: -9.508+/-0.112 $\chi^2$/NDF:1430.2/21

Out: -8.915+/-0.111 $\chi^2$/NDF:1583.4/25

All: -9.209+/-0.079 $\chi^2$/NDF: 3027.7/47




Right In: -4.163+/-0.172 $\chi^2$/NDF: 2525.0/15

Left Out: -7.836+/-0.133 $\chi^2$/NDF:407.8/6

Right Out: -3.947+/-0.176 $\chi^2$/NDF: 2110.2/18

Left In: -6.083+/-0.140 $\chi^2$/NDF:631.2/5

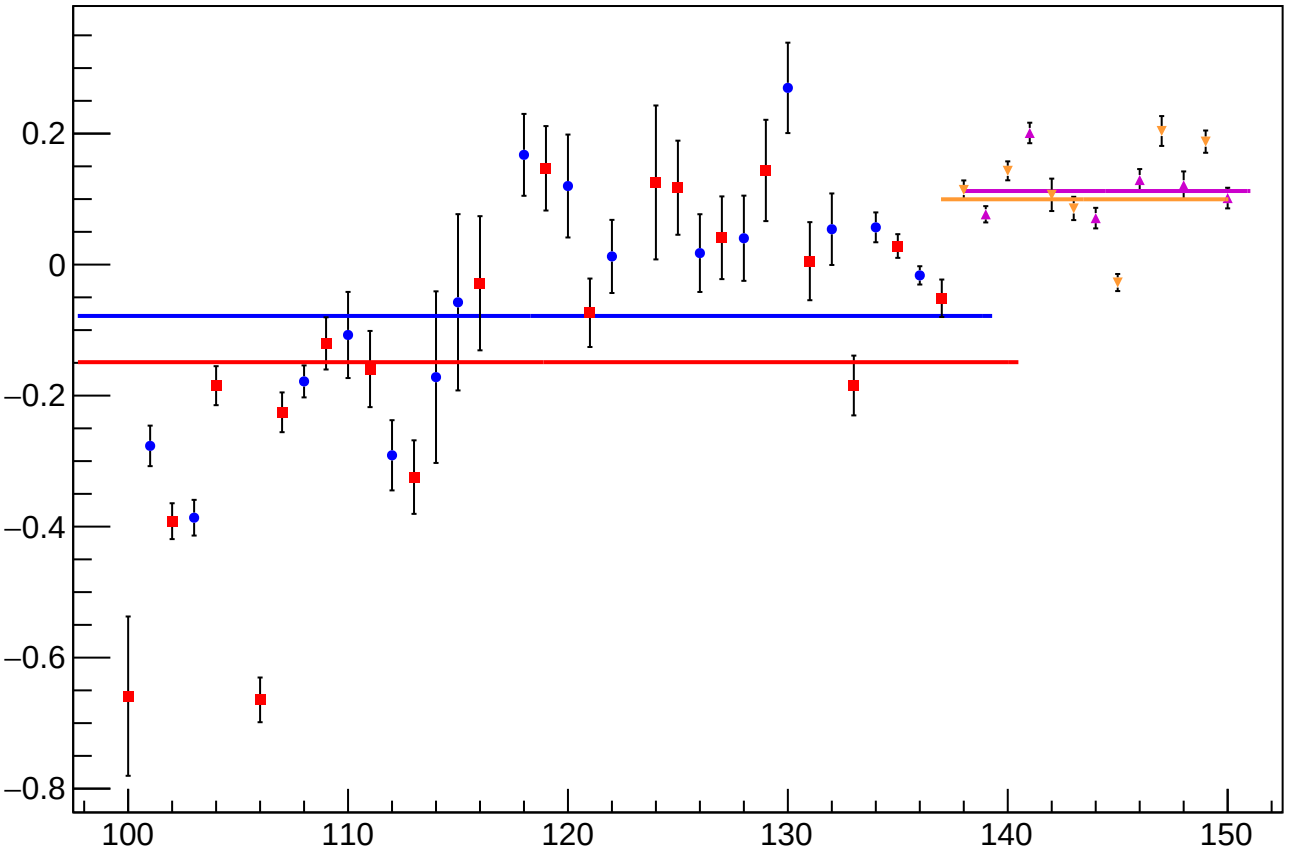
Left: -7.000+/-0.096 $\chi^2$/NDF: 1121.5/12

Right: -4.057+/-0.123 $\chi^2$/NDF: 4636.0/34

In: -5.321+/-0.108 $\chi^2$/NDF:3231.5/21

Out: -6.419+/-0.106 $\chi^2$/NDF:2828.2/25

All: -5.880+/-0.076 $\chi^2$/NDF: 6112.0/47




Right In: -0.078+/-0.009 $\chi^2$/NDF: 318.8/15

Left Out: 0.100+/-0.006 $\chi^2$/NDF:153.4/6

Right Out: -0.149+/-0.009 $\chi^2$/NDF: 524.8/18

Left In: 0.112+/-0.006 $\chi^2$/NDF:48.9/5

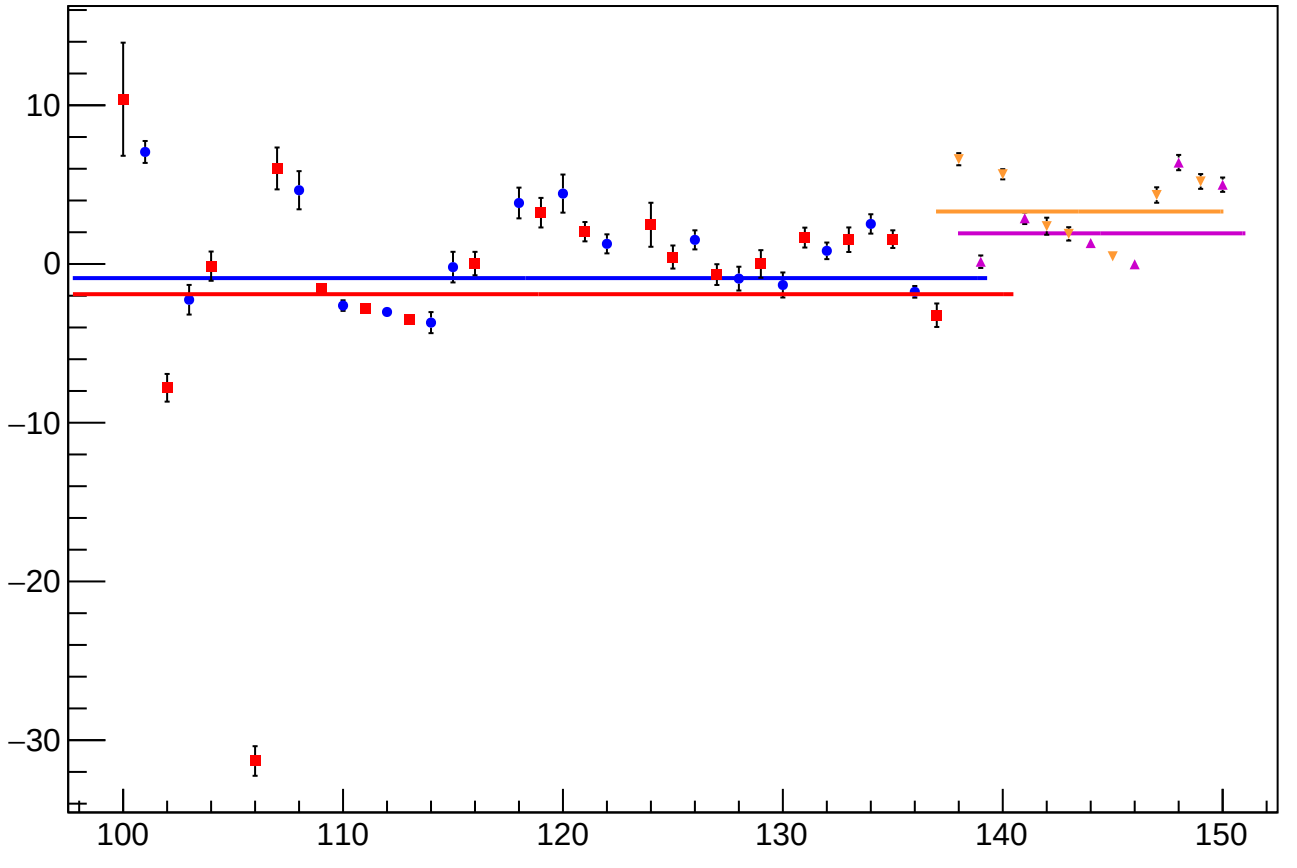
Left: 0.106+/-0.004 $\chi^2$/NDF: 204.2/12

Right: -0.112+/-0.006 $\chi^2$/NDF: 875.6/34

In: 0.044+/-0.005 $\chi^2$/NDF:685.8/21

Out: 0.020+/-0.005 $\chi^2$/NDF:1187.2/25

All: 0.032+/-0.004 $\chi^2$/NDF: 1884.4/47




Right In: -0.889+/-0.137 $\chi^2$/NDF: 380.3/15

Left Out: 3.307+/-0.140 $\chi^2$/NDF:295.9/6

Right Out: -1.903+/-0.128 $\chi^2$/NDF: 1331.8/18

Left In: 1.931+/-0.144 $\chi^2$/NDF:205.9/5

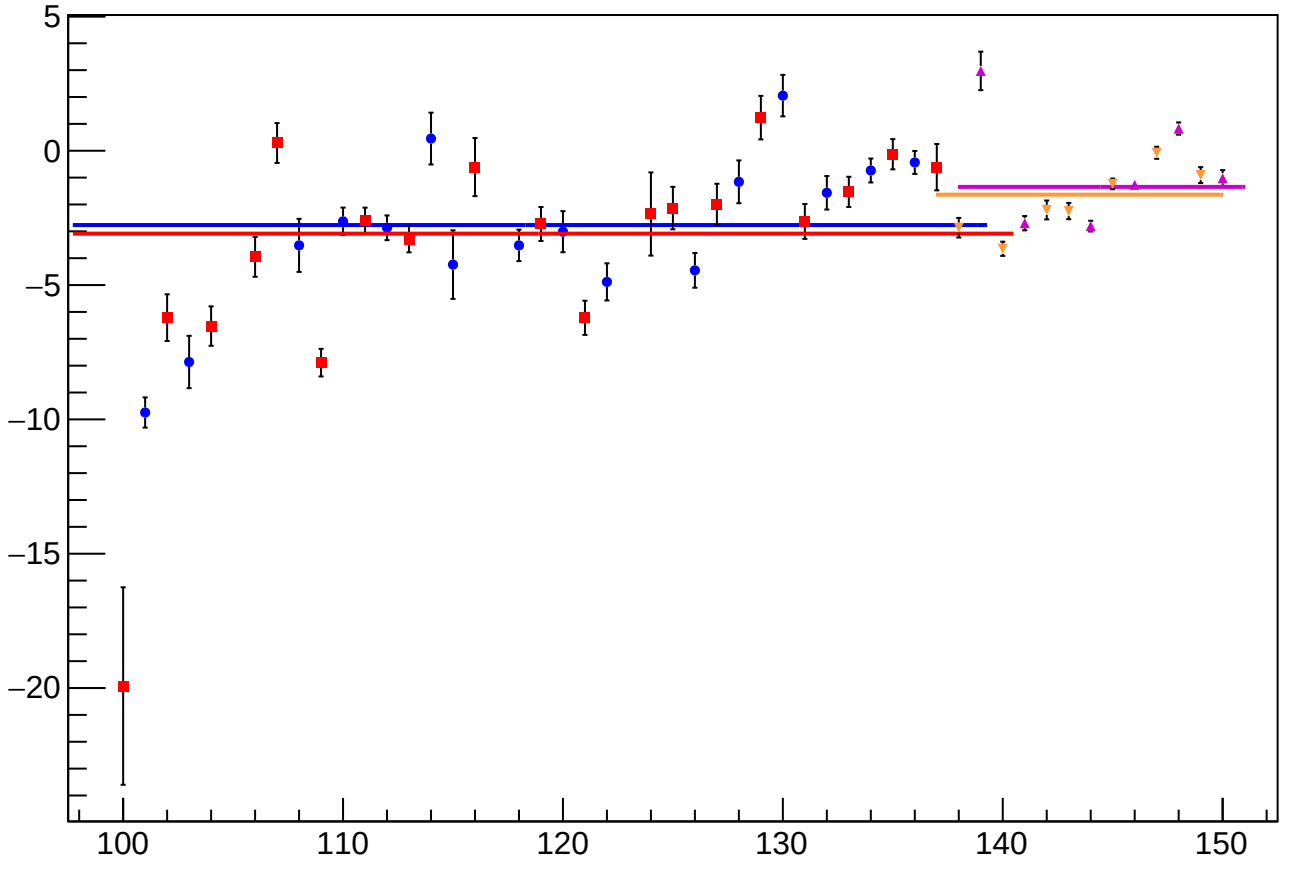
Left: 2.641+/-0.100 $\chi^2$/NDF: 548.6/12

Right: -1.428+/-0.094 $\chi^2$/NDF: 1741.3/34

In: 0.442+/-0.099 $\chi^2$/NDF:787.4/21

Out: 0.479+/-0.095 $\chi^2$/NDF:2380.9/25

All: 0.462+/-0.068 $\chi^2$/NDF: 3168.4/47




Right In: -2.766+/-0.156 $\chi^2$/NDF: 310.1/15

Left Out: -1.635+/-0.101 $\chi^2$/NDF:134.5/6

Right Out: -3.086+/-0.158 $\chi^2$/NDF: 272.5/18

Left In: -1.345+/-0.098 $\chi^2$/NDF:207.9/5

Left: -1.486+/-0.071 $\chi^2$/NDF: 346.6/12

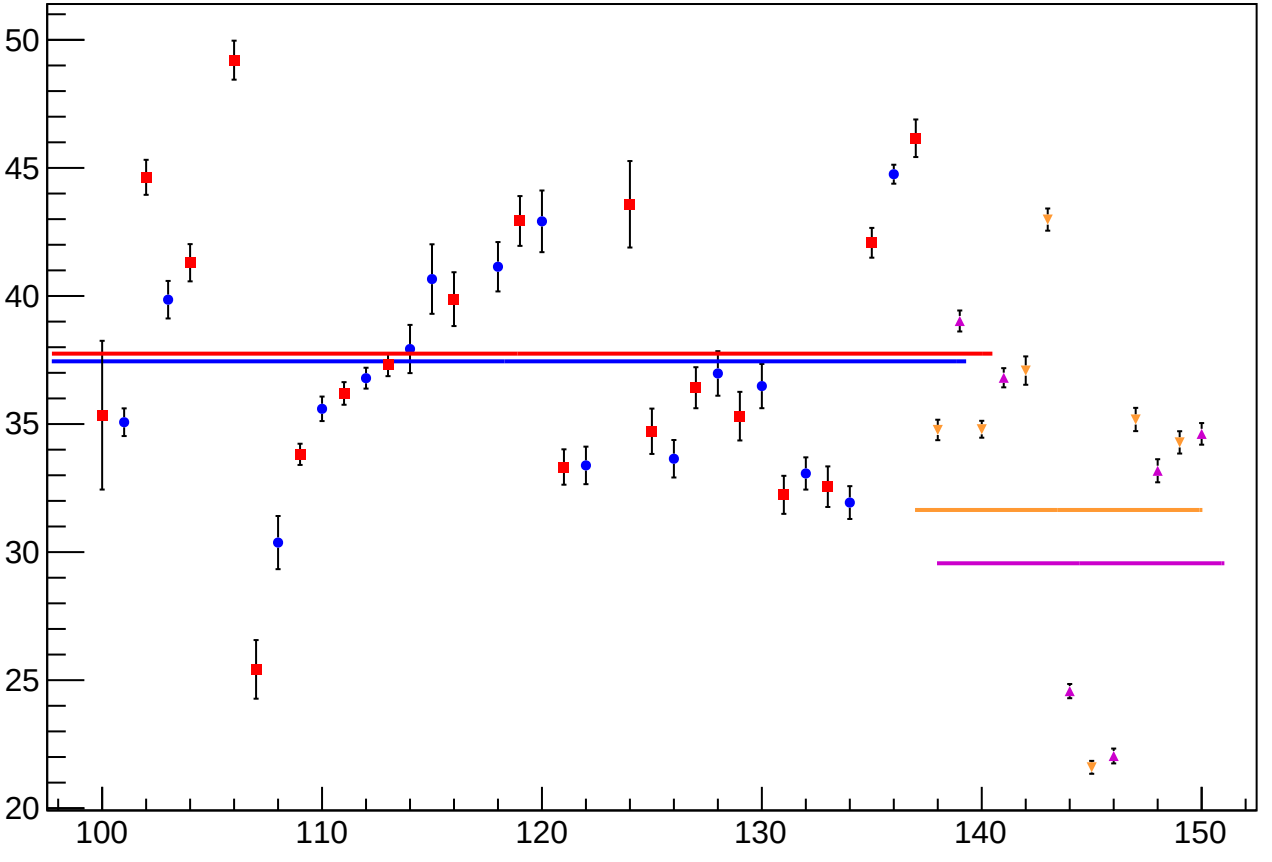
Right: -2.925+/-0.111 $\chi^2$/NDF: 584.6/34

In: -1.749+/-0.083 $\chi^2$/NDF:577.2/21

Out: -2.060+/-0.085 $\chi^2$/NDF:466.9/25

All: -1.901+/-0.060 $\chi^2$/NDF: 1050.9/47

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 37.449+/-0.161 $\chi^2$/NDF: 706.9/15

Left Out: 31.645+/-0.142 $\chi^2$/NDF:2615.6/6

Right Out: 37.749+/-0.159 $\chi^2$/NDF: 963.6/18

Left In: 29.564+/-0.144 $\chi^2$/NDF:2109.8/5

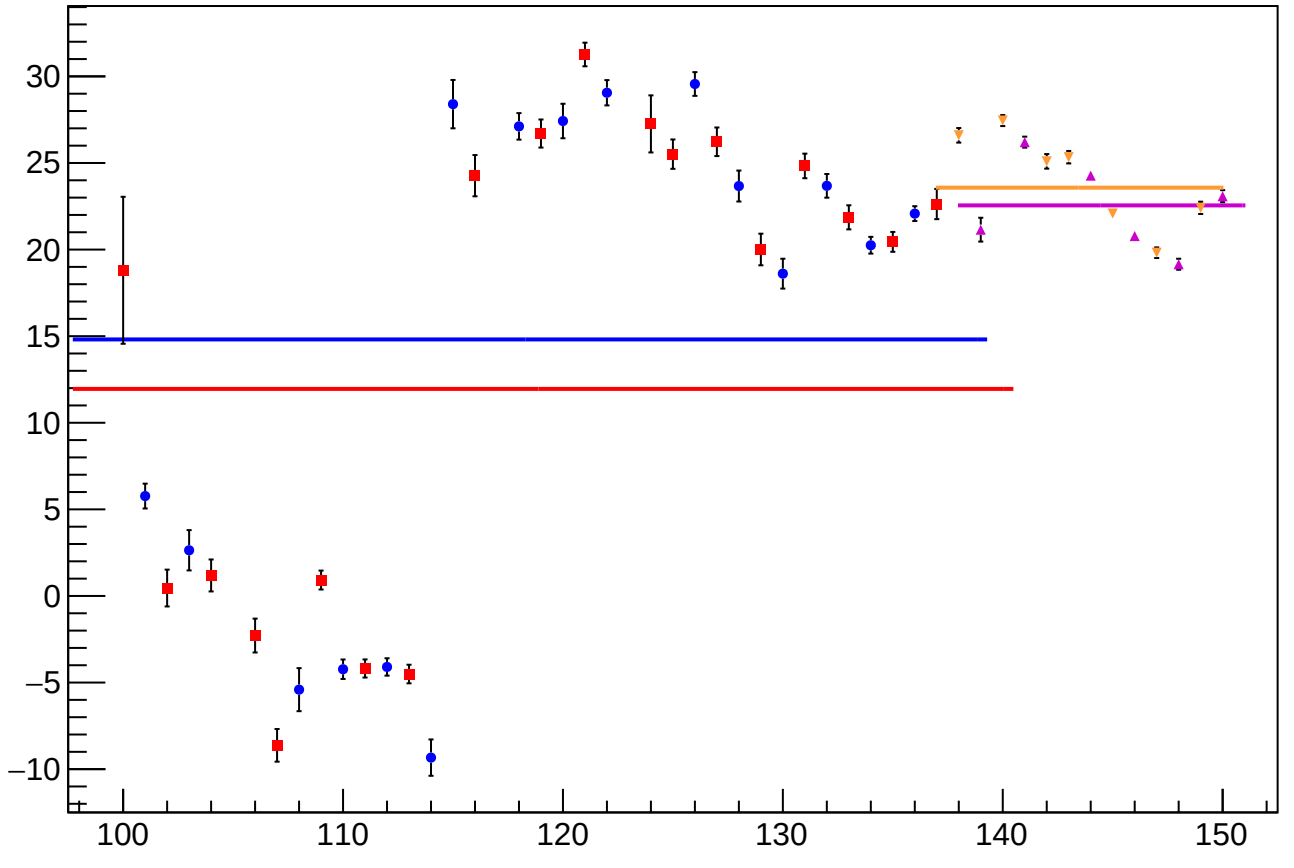
Left: 30.620+/-0.101 $\chi^2$/NDF: 4831.9/12

Right: 37.600+/-0.113 $\chi^2$/NDF: 1672.3/34

In: 33.066+/-0.107 $\chi^2$/NDF:4154.7/21

Out: 34.338+/-0.106 $\chi^2$/NDF:4398.5/25

All: 33.709+/-0.075 $\chi^2$/NDF: 8624.5/47




Right In: 14.812+/-0.174 $\chi^2$/NDF: 5686.4/15

Left Out: 23.574+/-0.123 $\chi^2$/NDF:438.9/6

Right Out: 11.955+/-0.177 $\chi^2$/NDF: 6105.5/18

Left In: 22.551+/-0.121 $\chi^2$/NDF:371.7/5

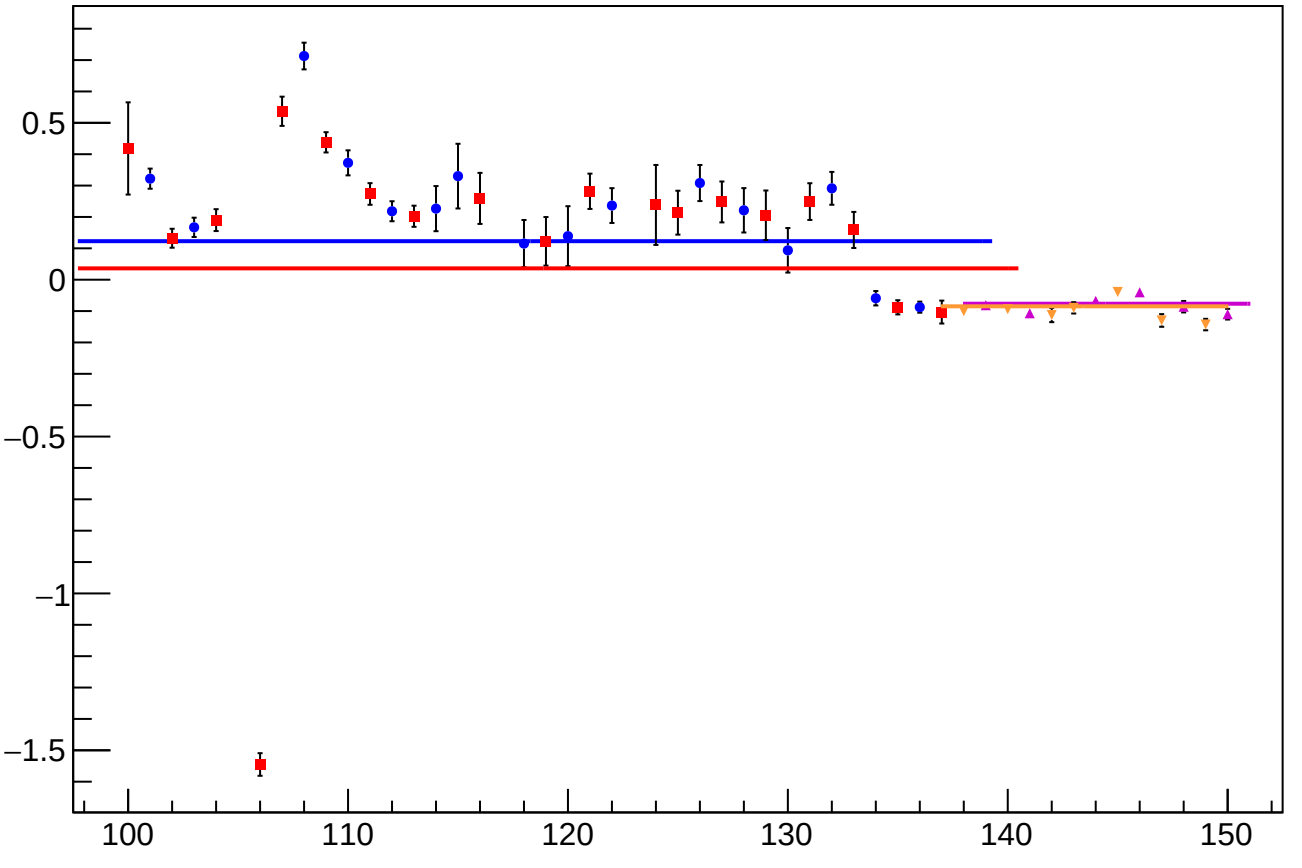
Left: 23.053+/-0.086 $\chi^2$/NDF: 846.0/12

Right: 13.408+/-0.124 $\chi^2$/NDF: 11924.5/34

In: 20.038+/-0.099 $\chi^2$/NDF:7395.7/21

Out: 19.797+/-0.101 $\chi^2$/NDF:9458.6/25

All: 19.920+/-0.071 $\chi^2$/NDF: 16857.2/47




Right In: 0.123+/-0.009 $\chi^2$/NDF: 520.0/15

Left Out: -0.085+/-0.006 $\chi^2$/NDF:38.8/6

Right Out: 0.036+/-0.010 $\chi^2$/NDF: 2414.7/18

Left In: -0.077+/-0.006 $\chi^2$/NDF:17.1/5

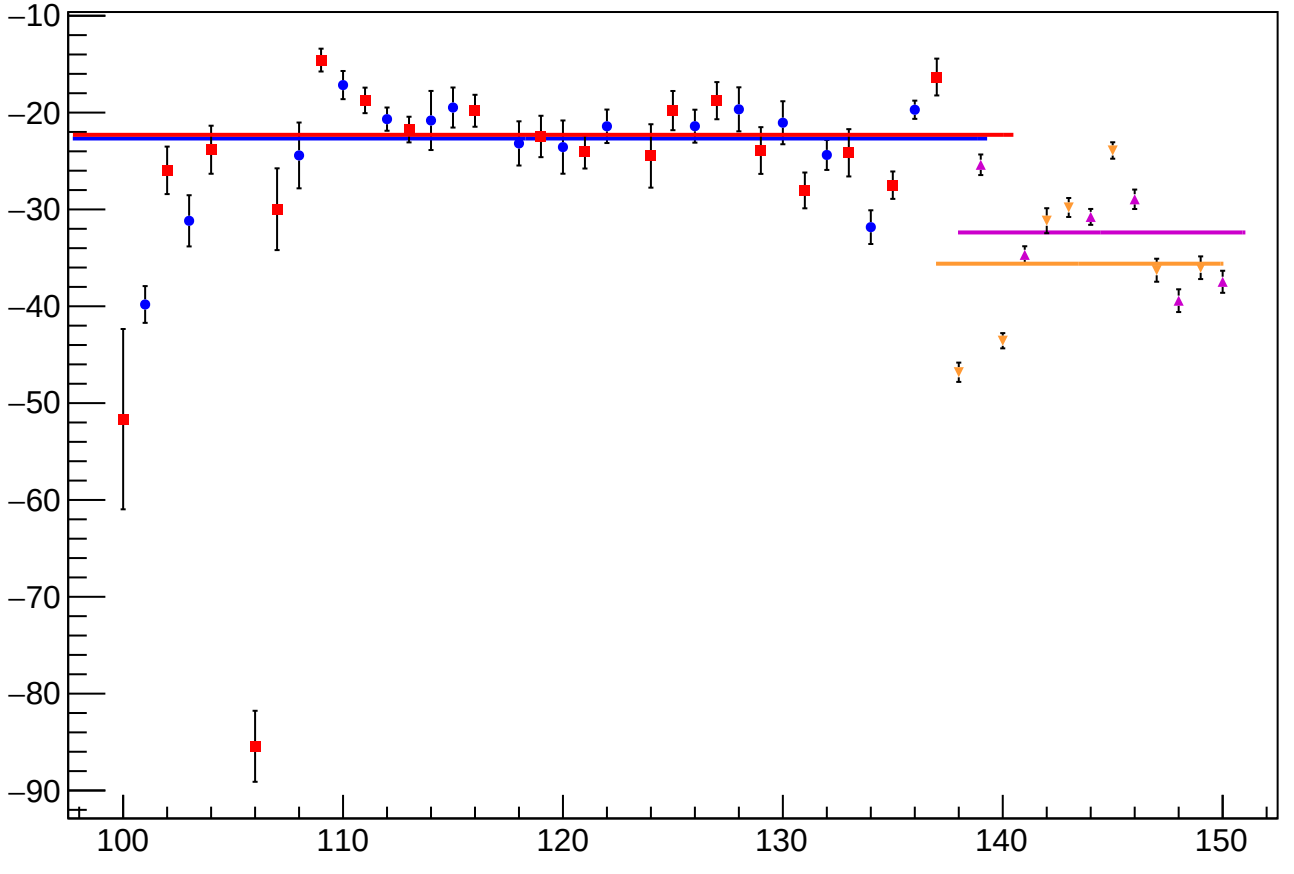
Left: -0.081+/-0.004 $\chi^2$/NDF: 56.9/12

Right: 0.081+/-0.007 $\chi^2$/NDF: 2975.5/34

In: -0.020+/-0.005 $\chi^2$/NDF:858.0/21

Out: -0.053+/-0.005 $\chi^2$/NDF:2565.9/25

All: -0.036+/-0.004 $\chi^2$/NDF: 3445.3/47




Right In: -22.675+/-0.435 $\chi^2$/NDF: 154.4/15

Left Out: -35.603+/-0.376 $\chi^2$/NDF:465.8/6

Right Out: -22.295+/-0.435 $\chi^2$/NDF: 405.5/18

Left In: -32.377+/-0.404 $\chi^2$/NDF:121.5/5

Left: -34.107+/-0.275 $\chi^2$/NDF: 621.4/12

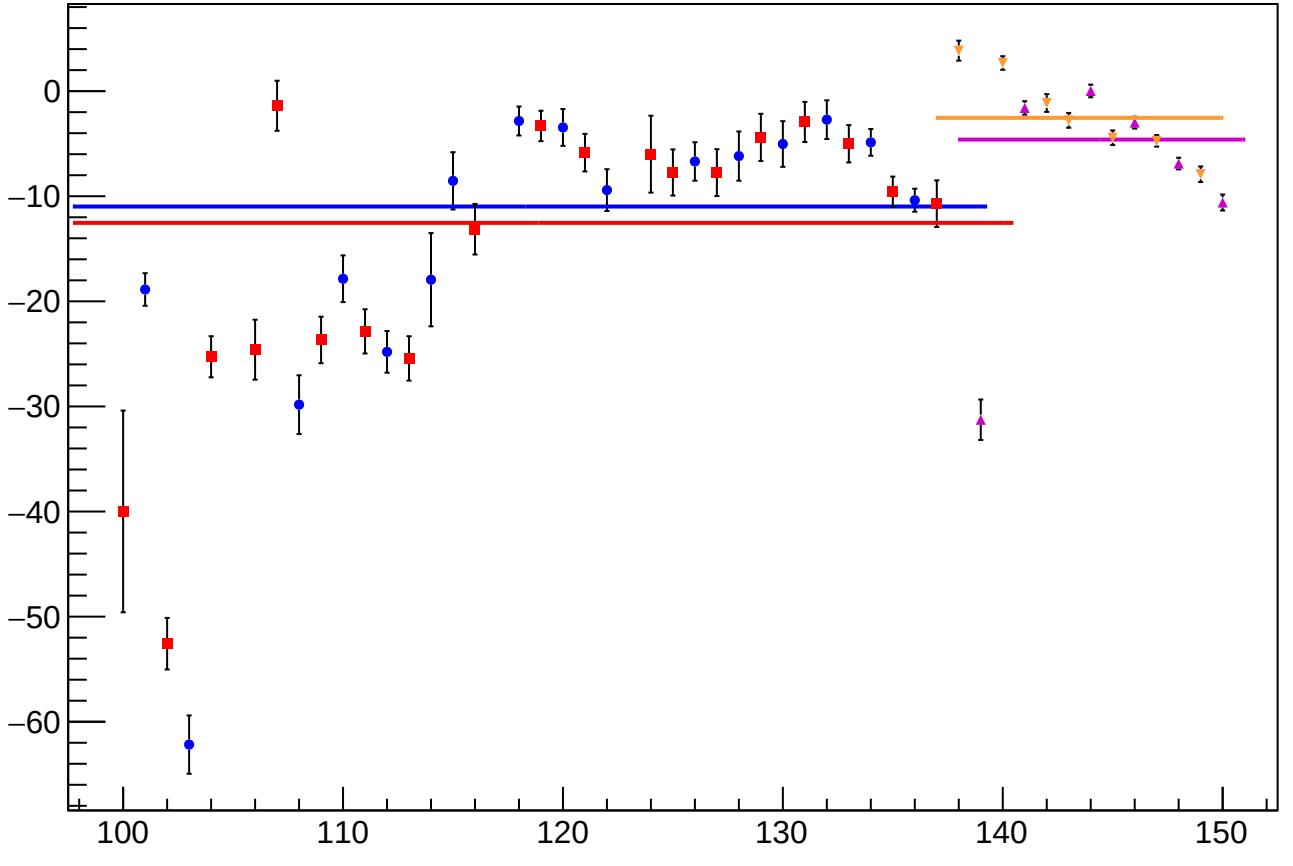
Right: -22.485+/-0.307 $\chi^2$/NDF: 560.3/34

In: -27.880+/-0.296 $\chi^2$/NDF:543.4/21

Out: -29.922+/-0.284 $\chi^2$/NDF:1407.3/25

All: -28.942+/-0.205 $\chi^2$/NDF: 1975.4/47

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -10.978+/-0.453 $\chi^2$/NDF: 587.3/15

Left Out: -2.541+/-0.266 $\chi^2$/NDF:188.4/6

Right Out: -12.533+/-0.481 $\chi^2$/NDF: 572.3/18

Left In: -4.607+/-0.272 $\chi^2$/NDF:359.3/5

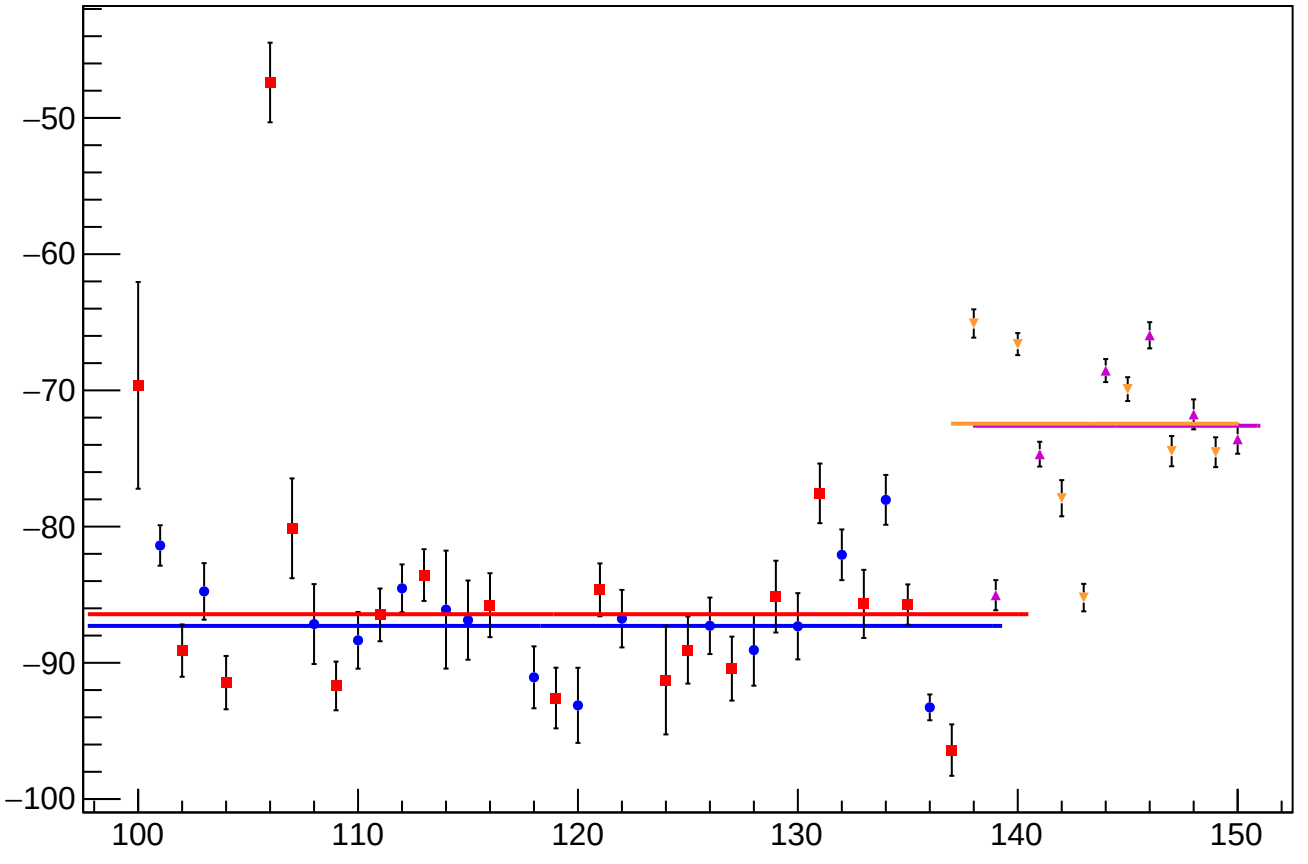
Left: -3.551+/-0.190 $\chi^2$/NDF: 577.1/12

Right: -11.710+/-0.330 $\chi^2$/NDF: 1165.1/34

In: -6.293+/-0.233 $\chi^2$/NDF:1091.8/21

Out: -4.881+/-0.233 $\chi^2$/NDF:1091.0/25

All: -5.586+/-0.165 $\chi^2$/NDF: 2201.1/47




Right In: -87.291+/-0.481 $\chi^2$/NDF: 101.2/15

Left Out: -72.444+/-0.379 $\chi^2$/NDF:295.0/6

Right Out: -86.431+/-0.506 $\chi^2$/NDF: 264.8/18

Left In: -72.596+/-0.401 $\chi^2$/NDF:203.5/5

Left: -72.516+/-0.275 $\chi^2$/NDF: 498.6/12

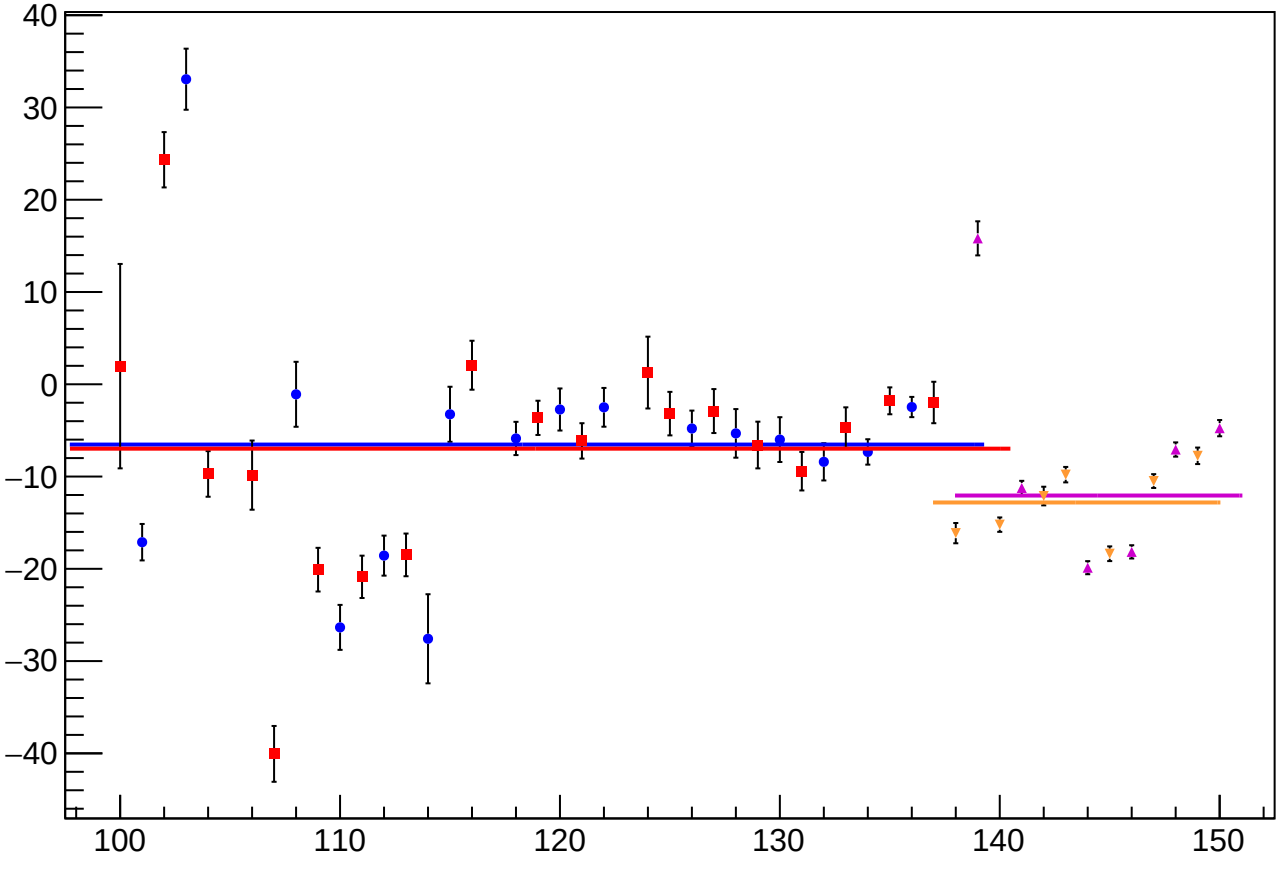
Right: -86.883+/-0.348 $\chi^2$/NDF: 367.6/34

In: -78.629+/-0.308 $\chi^2$/NDF:855.8/21

Out: -77.472+/-0.303 $\chi^2$/NDF:1049.4/25

All: -78.042+/-0.216 $\chi^2$/NDF: 1912.3/47

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -6.535+/-0.508 $\chi^2$/NDF: 313.9/15

Left Out: -12.811+/-0.325 $\chi^2$/NDF:122.1/6

Right Out: -6.979+/-0.542 $\chi^2$/NDF: 368.3/18

Left In: -12.057+/-0.336 $\chi^2$/NDF:532.6/5

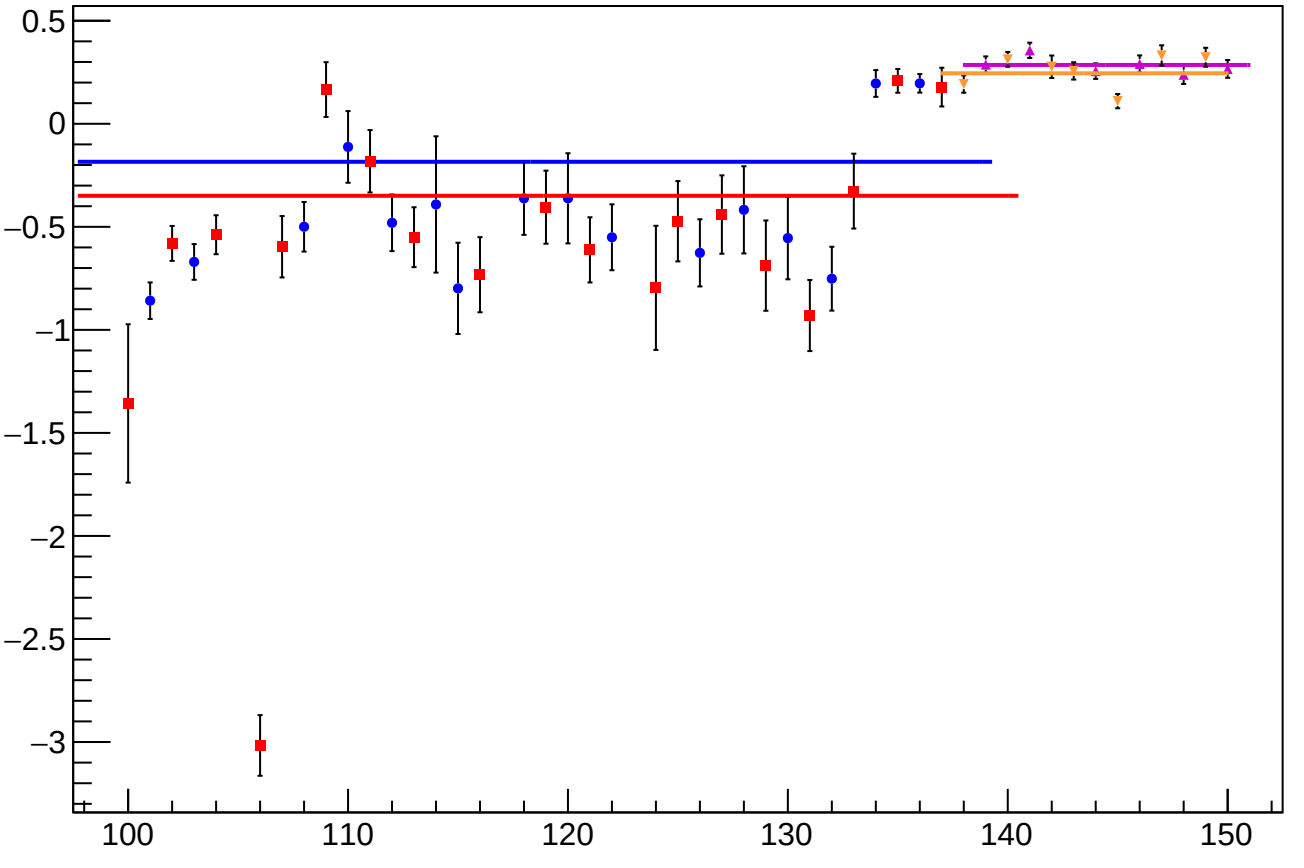
Left: -12.447+/-0.234 $\chi^2$/NDF: 657.3/12

Right: -6.743+/-0.370 $\chi^2$/NDF: 682.6/34

In: -10.377+/-0.280 $\chi^2$/NDF:928.8/21

Out: -11.268+/-0.279 $\chi^2$/NDF:575.7/25

All: -10.825+/-0.198 $\chi^2$/NDF: 1509.6/47




Right In: -0.184+/-0.027 $\chi^2$/NDF: 247.3/15

Left Out: 0.245+/-0.016 $\chi^2$/NDF:26.6/6

Right Out: -0.349+/-0.029 $\chi^2$/NDF: 516.5/18

Left In: 0.285+/-0.016 $\chi^2$/NDF:5.6/5

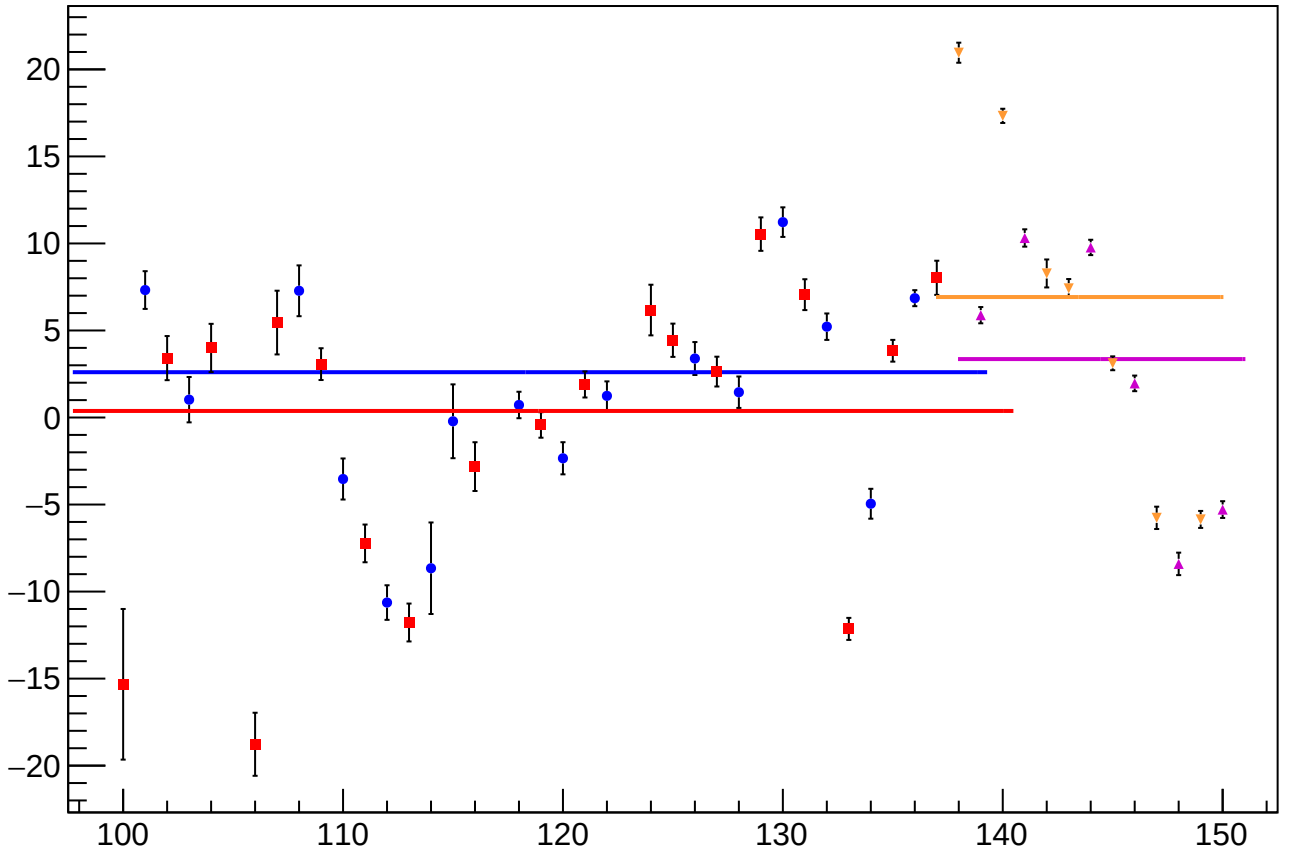
Left: 0.264+/-0.011 $\chi^2$/NDF: 35.3/12

Right: -0.259+/-0.020 $\chi^2$/NDF: 781.1/34

In: 0.156+/-0.014 $\chi^2$/NDF:476.3/21

Out: 0.110+/-0.014 $\chi^2$/NDF:860.7/25

All: 0.133+/-0.010 $\chi^2$/NDF: 1342.5/47




Right In: 2.604+/-0.224 $\chi^2$/NDF: 573.1/15

Left Out: 6.921+/-0.193 $\chi^2$/NDF:2413.9/6

Right Out: 0.377+/-0.222 $\chi^2$/NDF: 1030.9/18

Left In: 3.357+/-0.198 $\chi^2$/NDF:1101.1/5

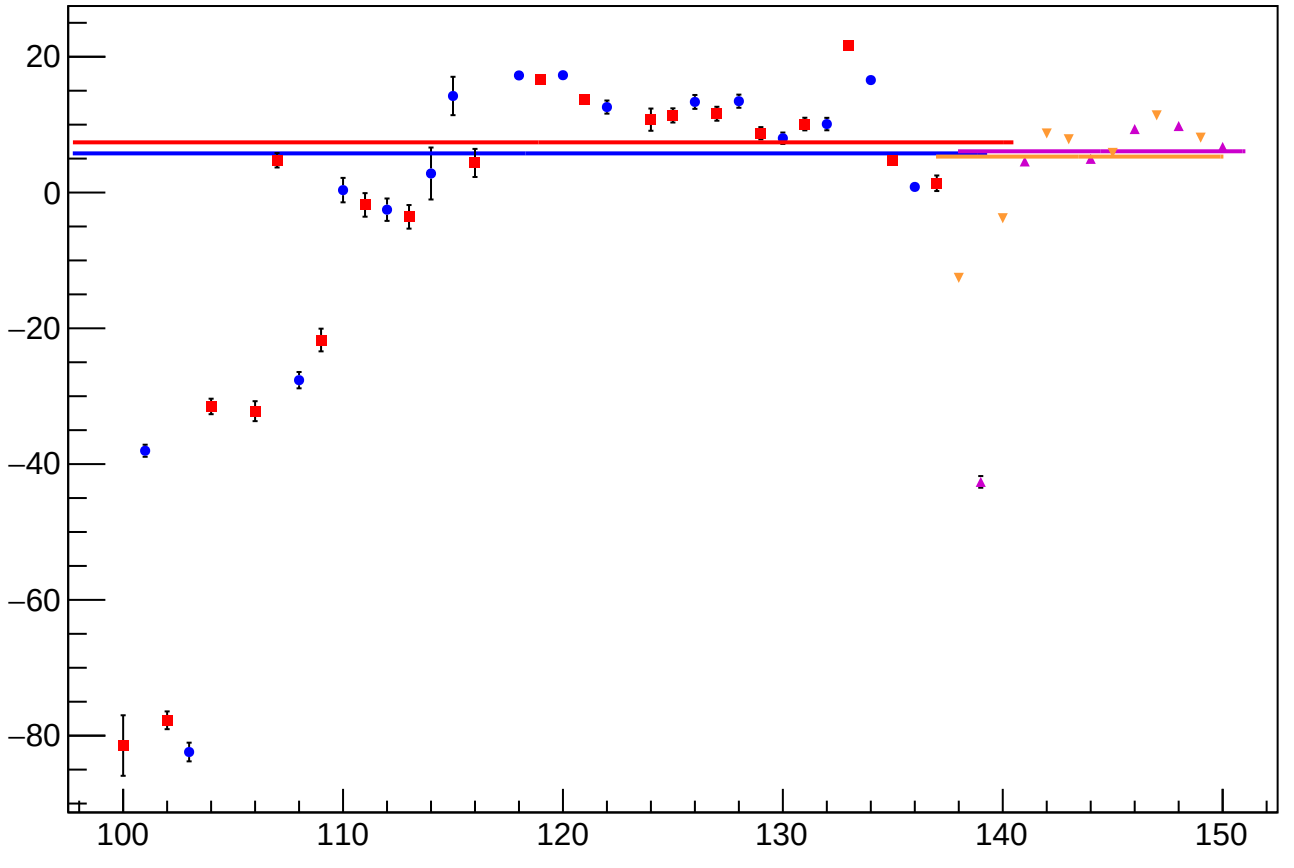
Left: 5.190+/-0.138 $\chi^2$/NDF: 3681.4/12

Right: 1.481+/-0.158 $\chi^2$/NDF: 1653.8/34

In: 3.026+/-0.148 $\chi^2$/NDF:1680.6/21

Out: 4.114+/-0.146 $\chi^2$/NDF:3940.0/25

All: 3.581+/-0.104 $\chi^2$/NDF: 5648.0/47




Right In: 5.768+/-0.210 $\chi^2$/NDF: 8933.8/15

Left Out: 5.294+/-0.138 $\chi^2$/NDF:2222.6/6

Right Out: 7.393+/-0.209 $\chi^2$/NDF: 8390.6/18

Left In: 6.077+/-0.140 $\chi^2$/NDF:3533.8/5

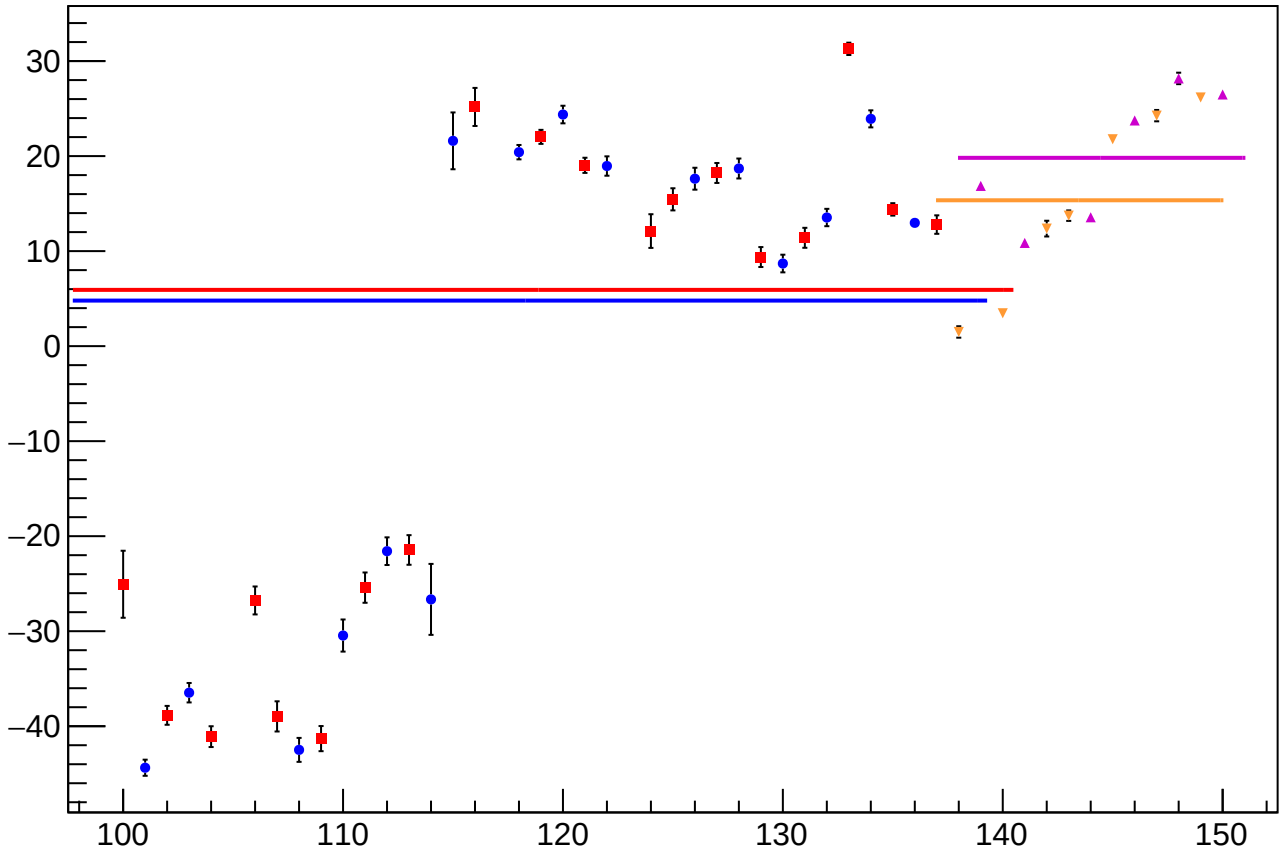
Left: 5.682+/-0.098 $\chi^2$/NDF: 5772.2/12

Right: 6.585+/-0.148 $\chi^2$/NDF: 17354.6/34

In: 5.982+/-0.116 $\chi^2$/NDF:12469.1/21

Out: 5.936+/-0.115 $\chi^2$/NDF:10683.3/25

All: 5.959+/-0.082 $\chi^2$/NDF: 23152.5/47




Right In: 4.794+/-0.237 $\chi^2$/NDF: 9496.9/15

Left Out: 15.350+/-0.193 $\chi^2$/NDF:2384.6/6

Right Out: 5.921+/-0.240 $\chi^2$/NDF: 10059.4/18

Left In: 19.817+/-0.196 $\chi^2$/NDF:1027.6/5

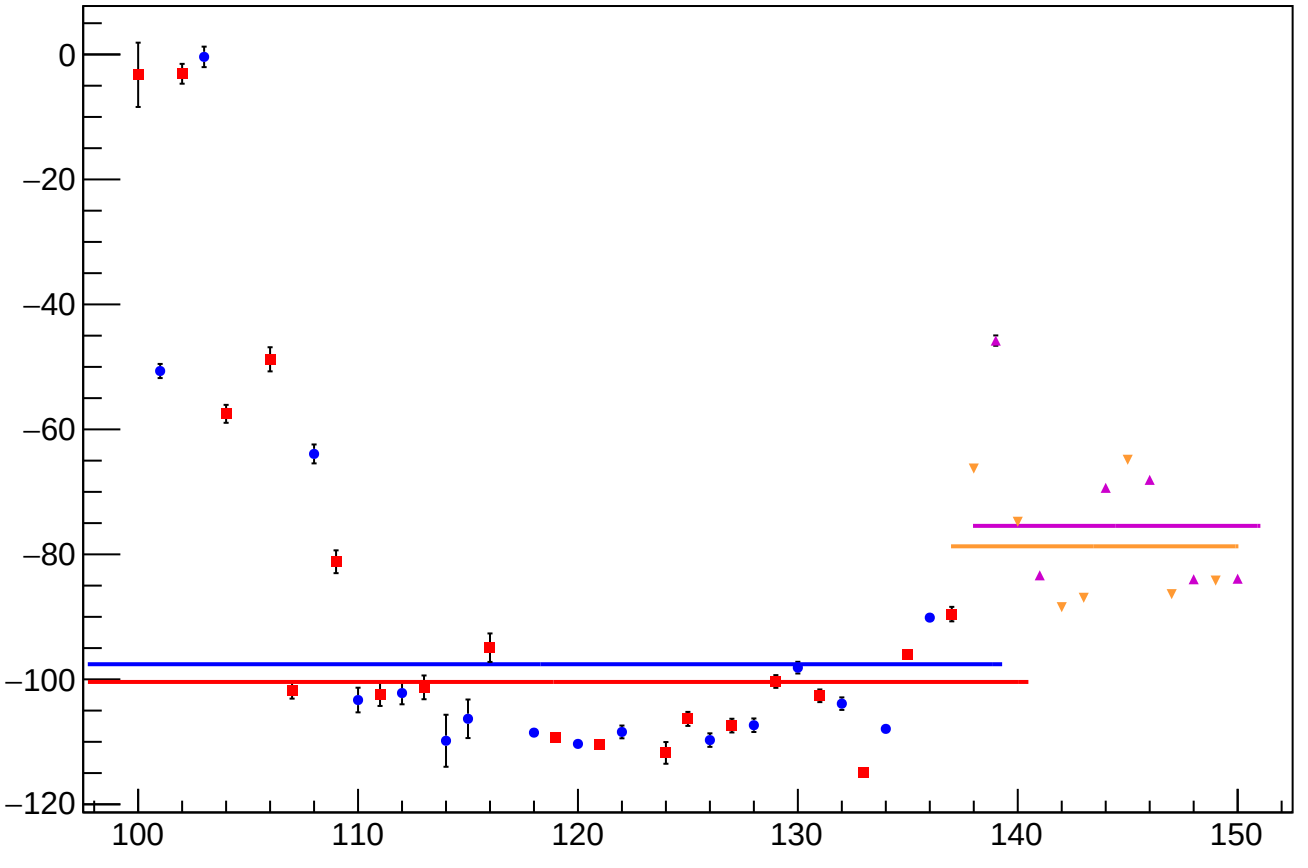
Left: 17.550+/-0.138 $\chi^2$/NDF: 3675.2/12

Right: 5.352+/-0.169 $\chi^2$/NDF: 19567.4/34

In: 13.719+/-0.151 $\chi^2$/NDF:12903.4/21

Out: 11.636+/-0.151 $\chi^2$/NDF:13380.4/25

All: 12.673+/-0.107 $\chi^2$/NDF: 26379.1/47




Right In: -97.581+/-0.242 $\chi^2$/NDF: 7144.2/15

Left Out: -78.714+/-0.168 $\chi^2$/NDF:2911.2/6

Right Out: -100.418+/-0.241 $\chi^2$/NDF: 7115.7/18

Left In: -75.439+/-0.169 $\chi^2$/NDF:3255.7/5

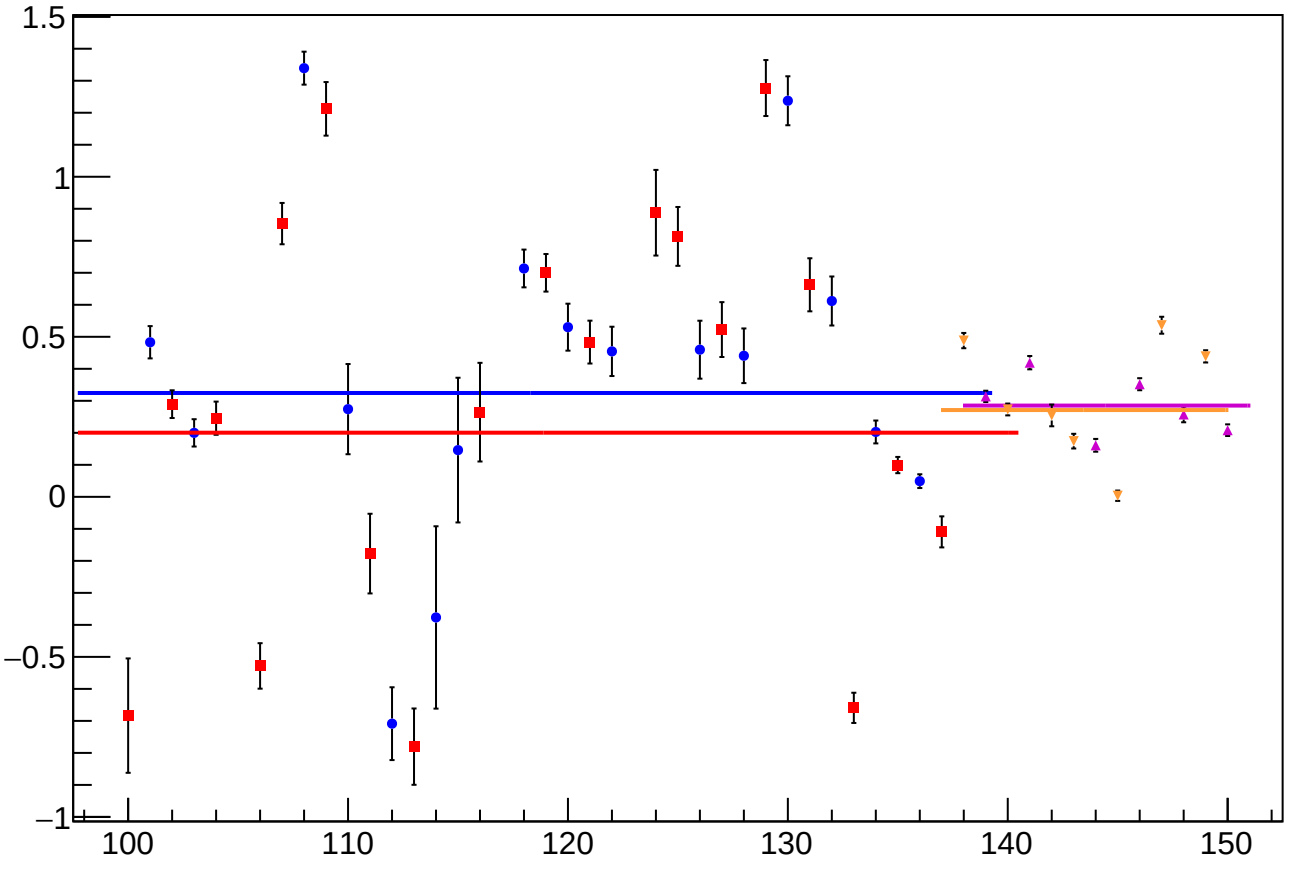
Left: -77.092+/-0.119 $\chi^2$/NDF: 6355.6/12

Right: -99.004+/-0.171 $\chi^2$/NDF: 14329.0/34

In: -82.731+/-0.139 $\chi^2$/NDF:16028.7/21

Out: -85.797+/-0.138 $\chi^2$/NDF:15491.7/25

All: -84.276+/-0.098 $\chi^2$/NDF: 31766.5/47




Right In: 0.324+/-0.013 $\chi^2$/NDF: 886.5/15

Left Out: 0.271+/-0.008 $\chi^2$/NDF:551.4/6

Right Out: 0.200+/-0.014 $\chi^2$/NDF: 1206.3/18

Left In: 0.285+/-0.008 $\chi^2$/NDF:114.2/5

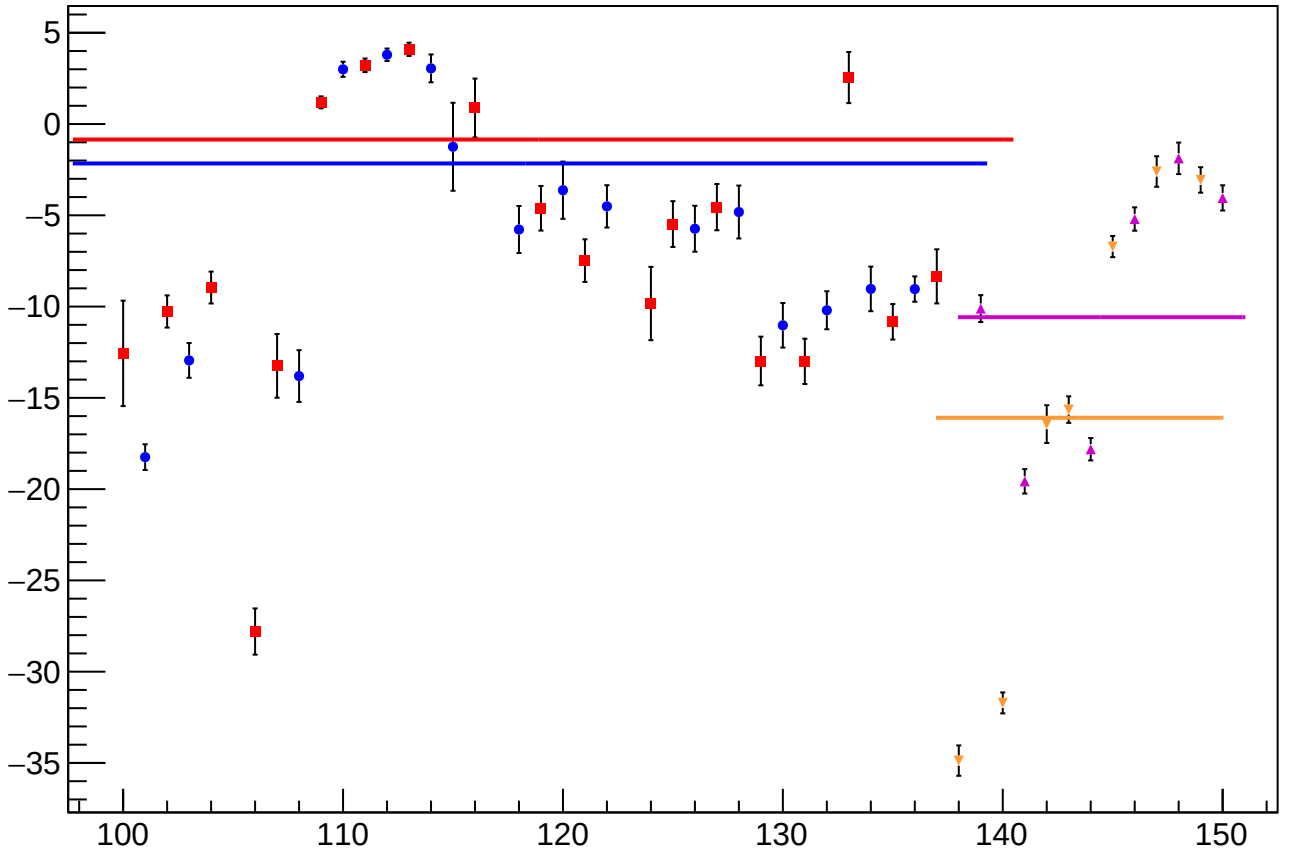
Left: 0.278+/-0.006 $\chi^2$/NDF: 667.1/12

Right: 0.265+/-0.010 $\chi^2$/NDF: 2134.6/34

In: 0.296+/-0.007 $\chi^2$/NDF:1007.2/21

Out: 0.253+/-0.007 $\chi^2$/NDF:1777.2/25

All: 0.275+/-0.005 $\chi^2$/NDF: 2803.1/47




Right In: -2.159+/-0.192 $\chi^2$/NDF: 1491.0/15

Left Out: -16.091+/-0.269 $\chi^2$/NDF:2121.3/6

Right Out: -0.848+/-0.170 $\chi^2$/NDF: 1465.4/18

Left In: -10.582+/-0.282 $\chi^2$/NDF:581.9/5

Left: -13.457+/-0.195 $\chi^2$/NDF: 2903.1/12

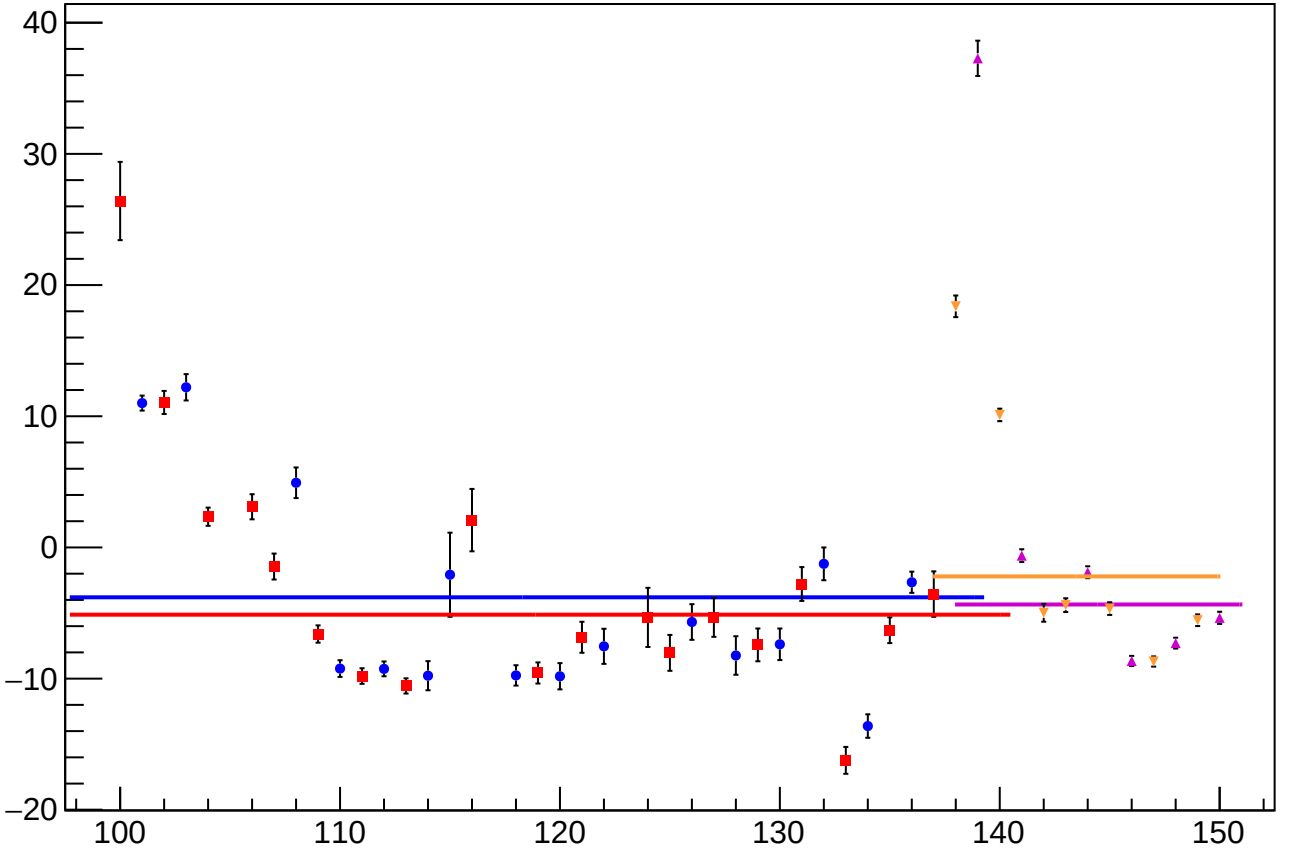
Right: -1.426+/-0.127 $\chi^2$/NDF: 2982.5/34

In: -4.833+/-0.159 $\chi^2$/NDF:2683.8/21

Out: -5.202+/-0.144 $\chi^2$/NDF:5872.2/25

All: -5.035+/-0.107 $\chi^2$/NDF: 8559.0/47

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -3.800+/-0.226 $\chi^2$/NDF: 1425.5/15

Left Out: -2.208+/-0.190 $\chi^2$/NDF:1680.9/6

Right Out: -5.126+/-0.219 $\chi^2$/NDF: 980.6/18

Left In: -4.348+/-0.193 $\chi^2$/NDF:1222.7/5

Left: -3.261+/-0.136 $\chi^2$/NDF: 2965.8/12

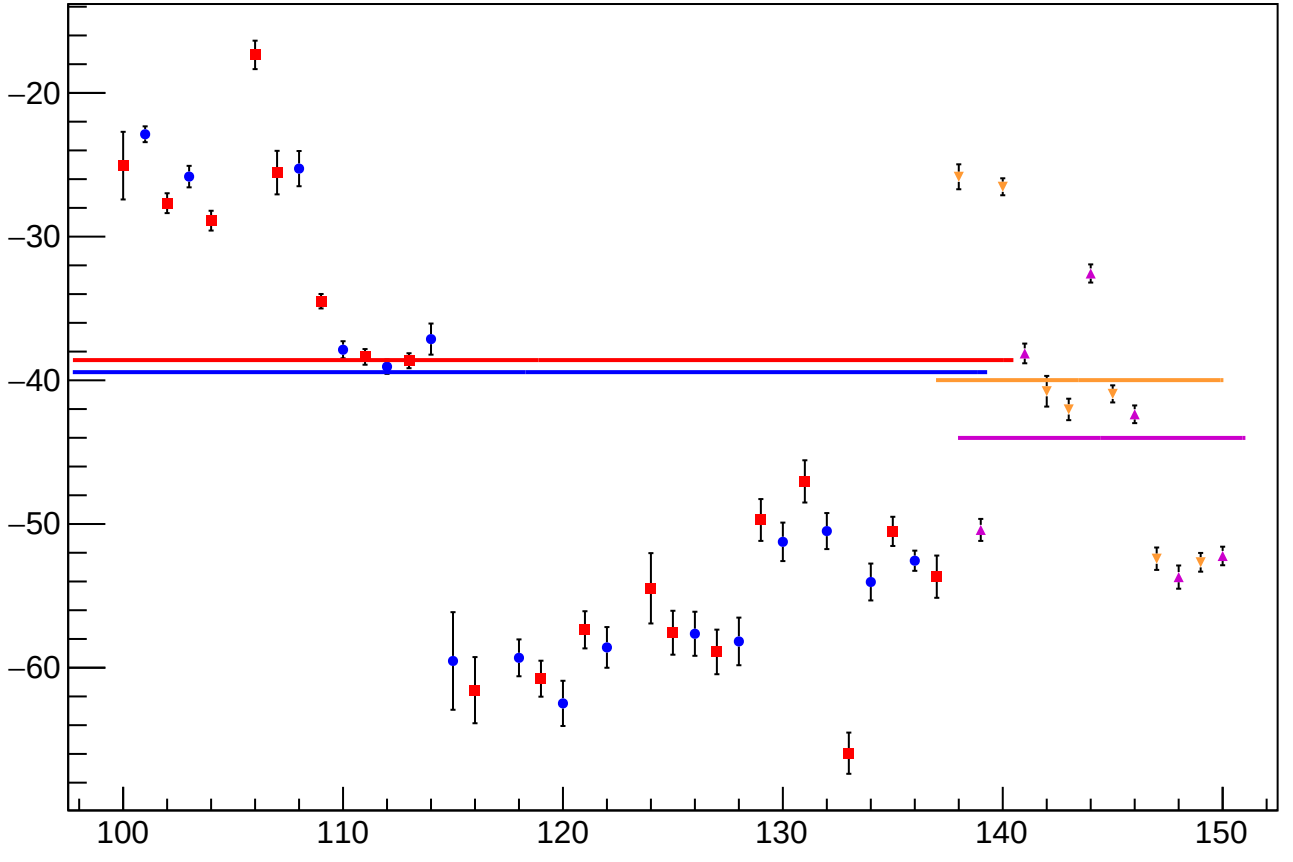
Right: -4.484+/-0.157 $\chi^2$/NDF: 2423.8/34

In: -4.116+/-0.147 $\chi^2$/NDF:2651.6/21

Out: -3.466+/-0.144 $\chi^2$/NDF:2762.7/25

All: -3.784+/-0.103 $\chi^2$/NDF: 5424.3/47

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -39.431+/-0.225 $\chi^2$/NDF: 2958.1/15

Left Out: -39.987+/-0.270 $\chi^2$/NDF:1428.3/6

Right Out: -38.593+/-0.213 $\chi^2$/NDF: 2772.1/18

Left In: -44.008+/-0.278 $\chi^2$/NDF:783.6/5

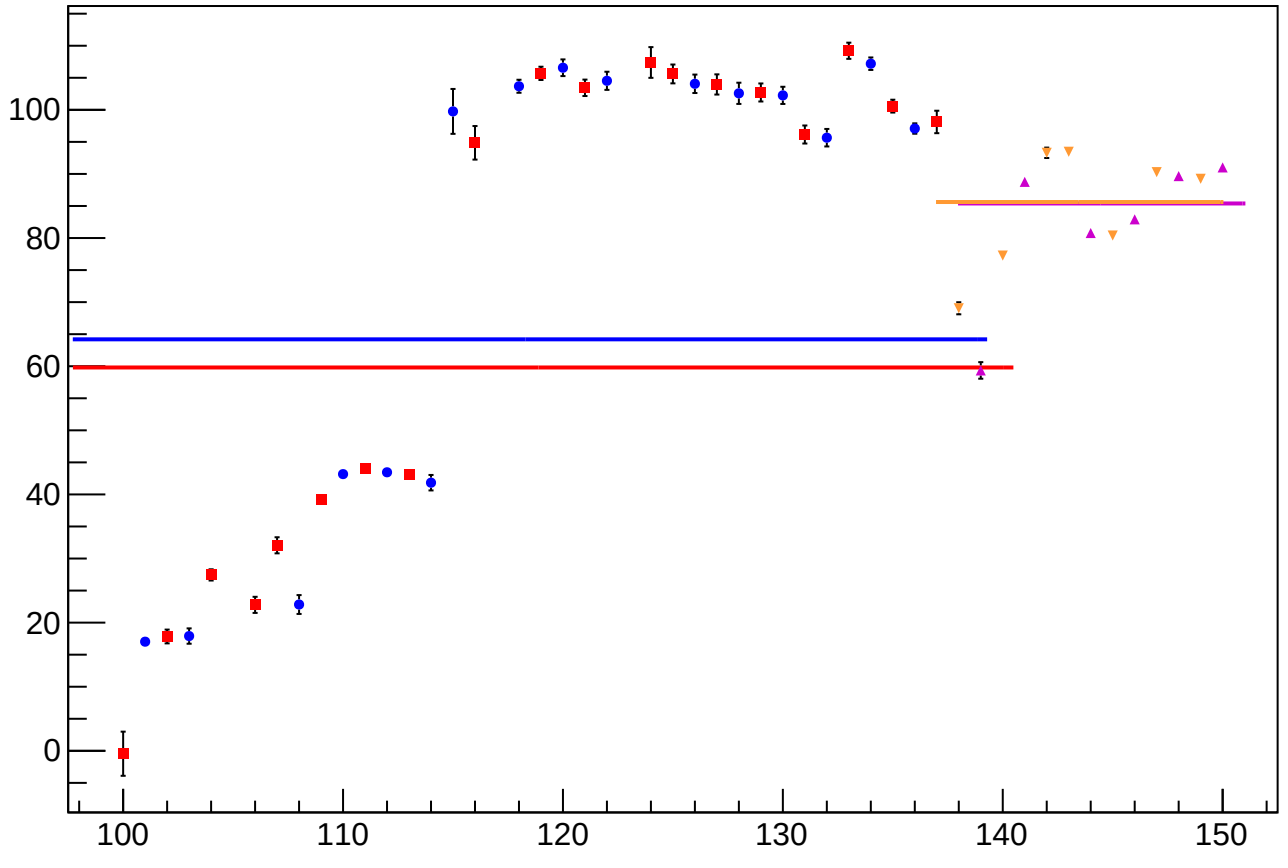
Left: -41.938+/-0.194 $\chi^2$/NDF: 2319.2/12

Right: -38.987+/-0.155 $\chi^2$/NDF: 5737.6/34

In: -41.244+/-0.175 $\chi^2$/NDF:3904.9/21

Out: -39.125+/-0.167 $\chi^2$/NDF:4216.9/25

All: -40.134+/-0.121 $\chi^2$/NDF: 8198.3/47




Right In: 64.196+/-0.258 $\chi^2$/NDF: 18596.4/15

Left Out: 85.619+/-0.232 $\chi^2$/NDF:982.4/6

Right Out: 59.805+/-0.249 $\chi^2$/NDF: 17431.2/18

Left In: 85.391+/-0.236 $\chi^2$/NDF:707.3/5

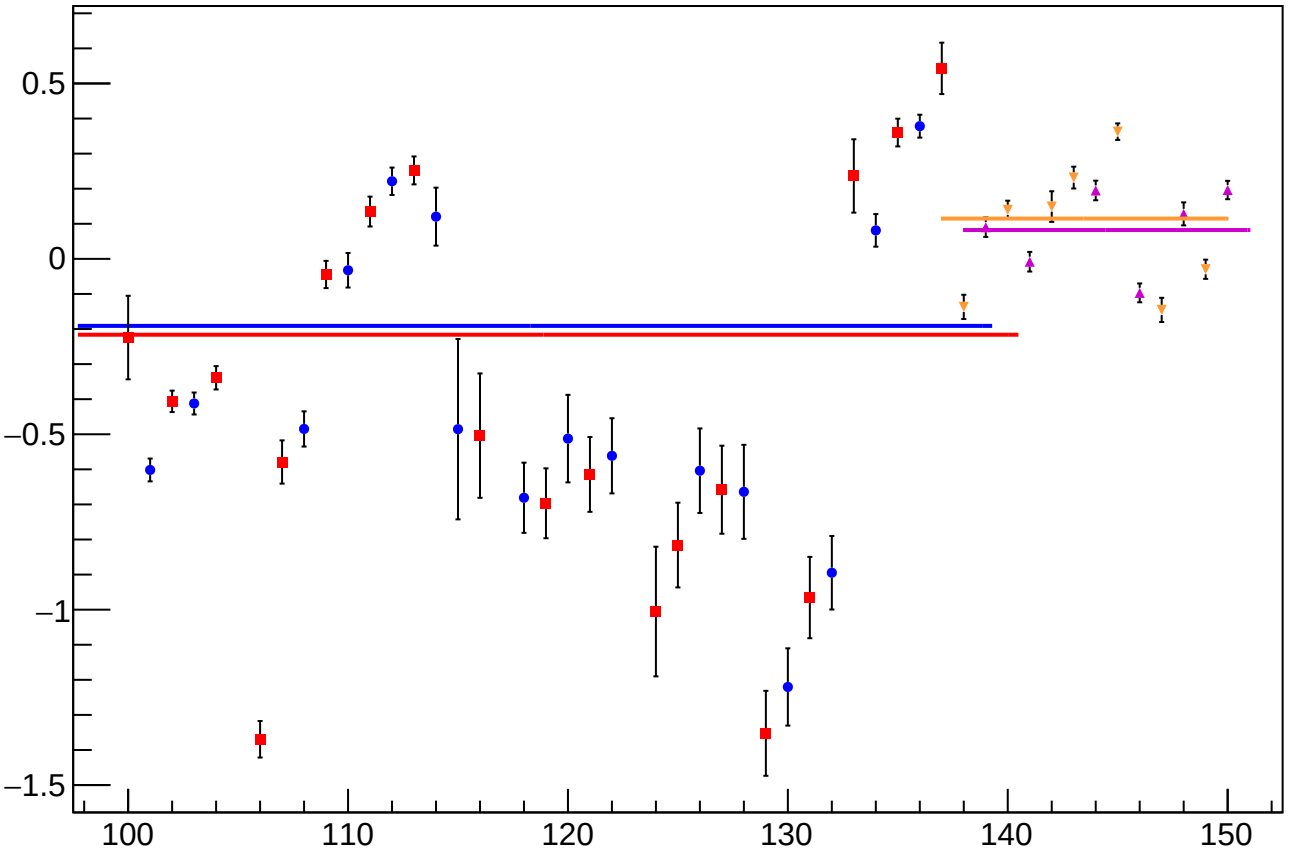
Left: 85.507+/-0.165 $\chi^2$/NDF: 1690.1/12

Right: 61.924+/-0.179 $\chi^2$/NDF: 36178.0/34

In: 75.716+/-0.174 $\chi^2$/NDF:22986.2/21

Out: 73.619+/-0.170 $\chi^2$/NDF:24177.1/25

All: 74.641+/-0.121 $\chi^2$/NDF: 47237.8/47




Right In: -0.191+/-0.013 $\chi^2$/NDF: 918.3/15

Left Out: 0.115+/-0.011 $\chi^2$/NDF:264.2/6

Right Out: -0.216+/-0.013 $\chi^2$/NDF: 1368.1/18

Left In: 0.082+/-0.011 $\chi^2$/NDF:92.4/5

Left: 0.099+/-0.008 $\chi^2$/NDF: 360.7/12

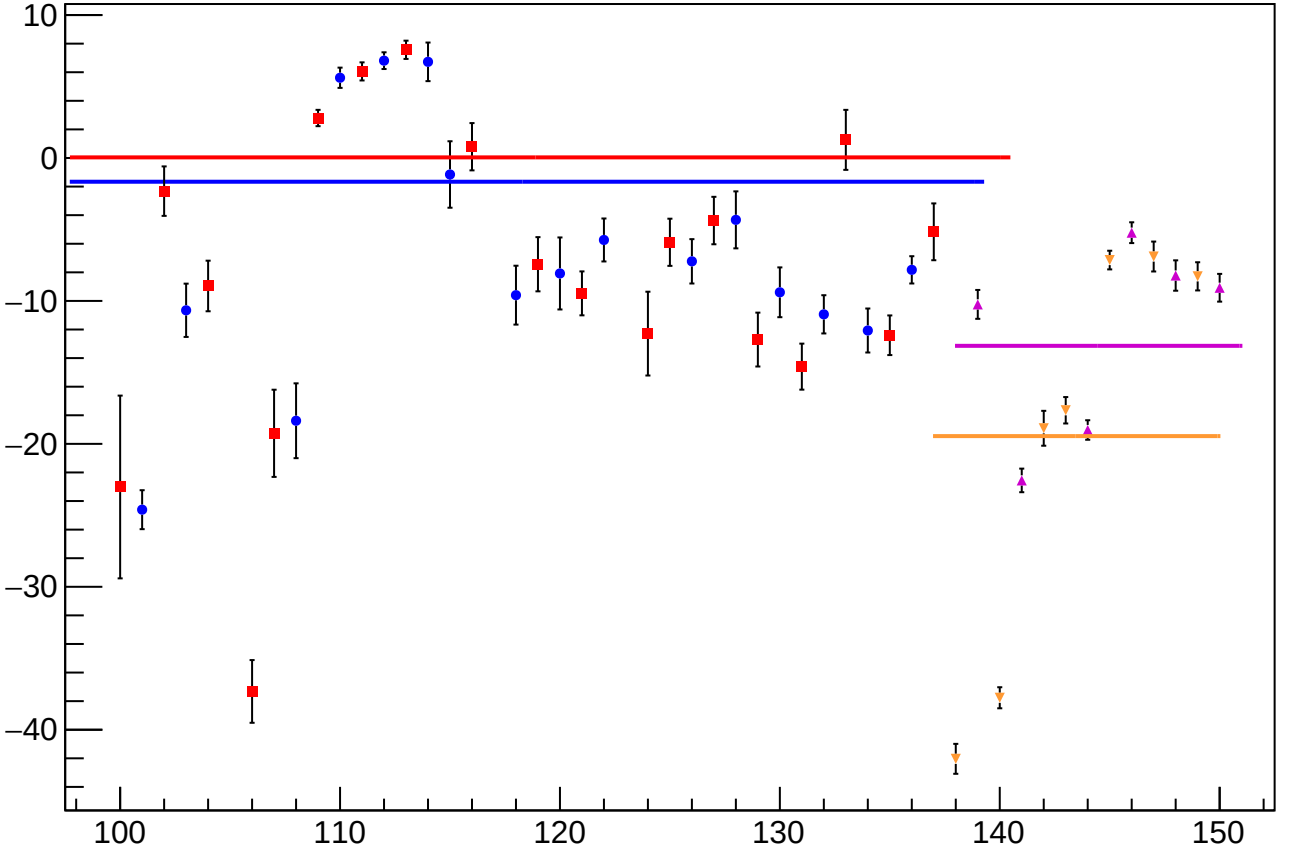
Right: -0.204+/-0.009 $\chi^2$/NDF: 2288.3/34

In: -0.033+/-0.009 $\chi^2$/NDF:1250.6/21

Out: -0.028+/-0.009 $\chi^2$/NDF:2004.0/25

All: -0.030+/-0.006 $\chi^2$/NDF: 3254.8/47

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.661+/-0.308 $\chi^2$/NDF: 900.3/15

Left Out: -19.458+/-0.336 $\chi^2$/NDF:1714.9/6

Right Out: 0.042+/-0.282 $\chi^2$/NDF: 931.1/18

Left In: -13.142+/-0.344 $\chi^2$/NDF:370.2/5

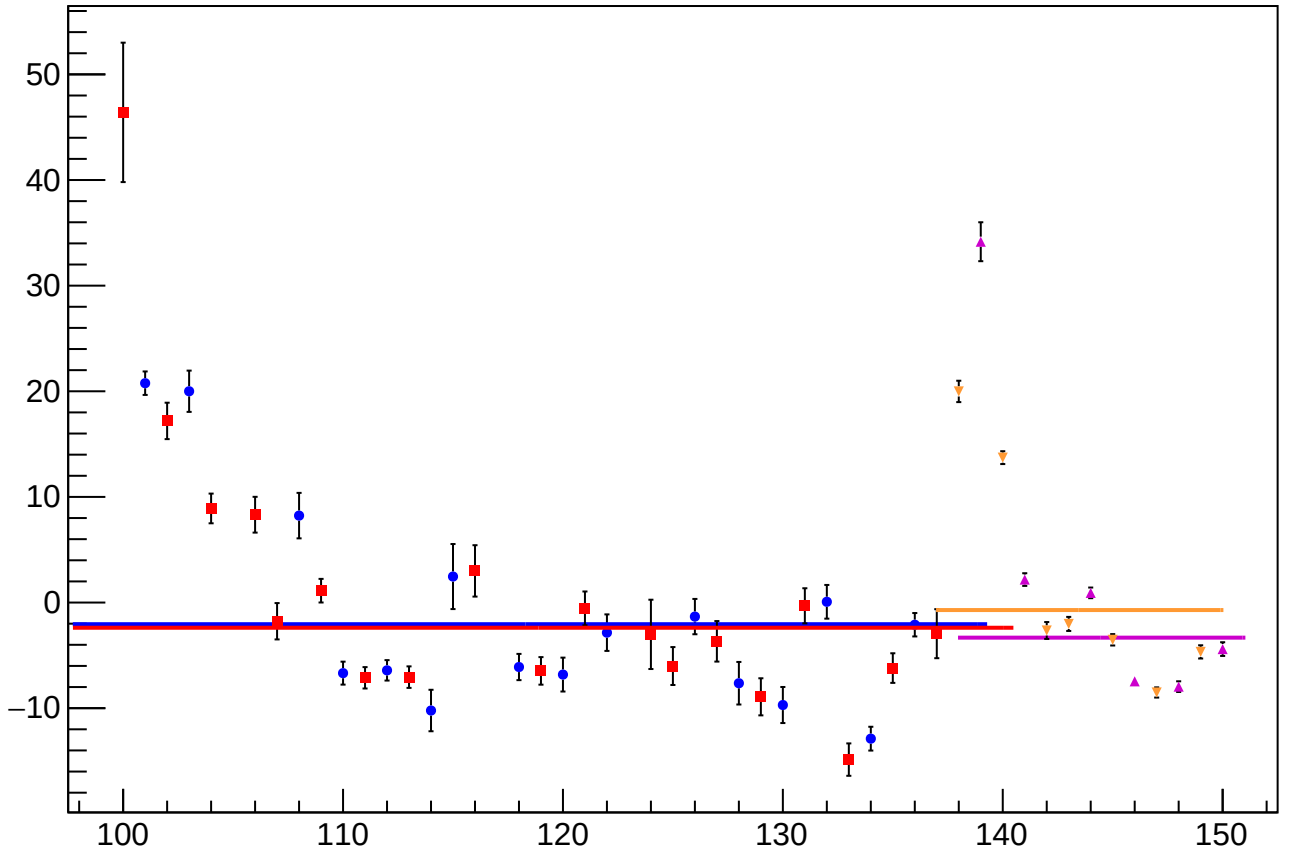
Left: -16.382+/-0.240 $\chi^2$/NDF: 2257.6/12

Right: -0.734+/-0.208 $\chi^2$/NDF: 1848.1/34

In: -6.764+/-0.230 $\chi^2$/NDF:1887.8/21

Out: -8.028+/-0.216 $\chi^2$/NDF:4626.1/25

All: -7.435+/-0.157 $\chi^2$/NDF: 6529.9/47




Right In: -2.050+/-0.356 $\chi^2$/NDF: 771.9/15

Left Out: -0.711+/-0.237 $\chi^2$/NDF:1320.2/6

Right Out: -2.386+/-0.355 $\chi^2$/NDF: 450.9/18

Left In: -3.323+/-0.231 $\chi^2$/NDF:747.7/5

Left: -2.050+/-0.166 $\chi^2$/NDF: 2130.1/12

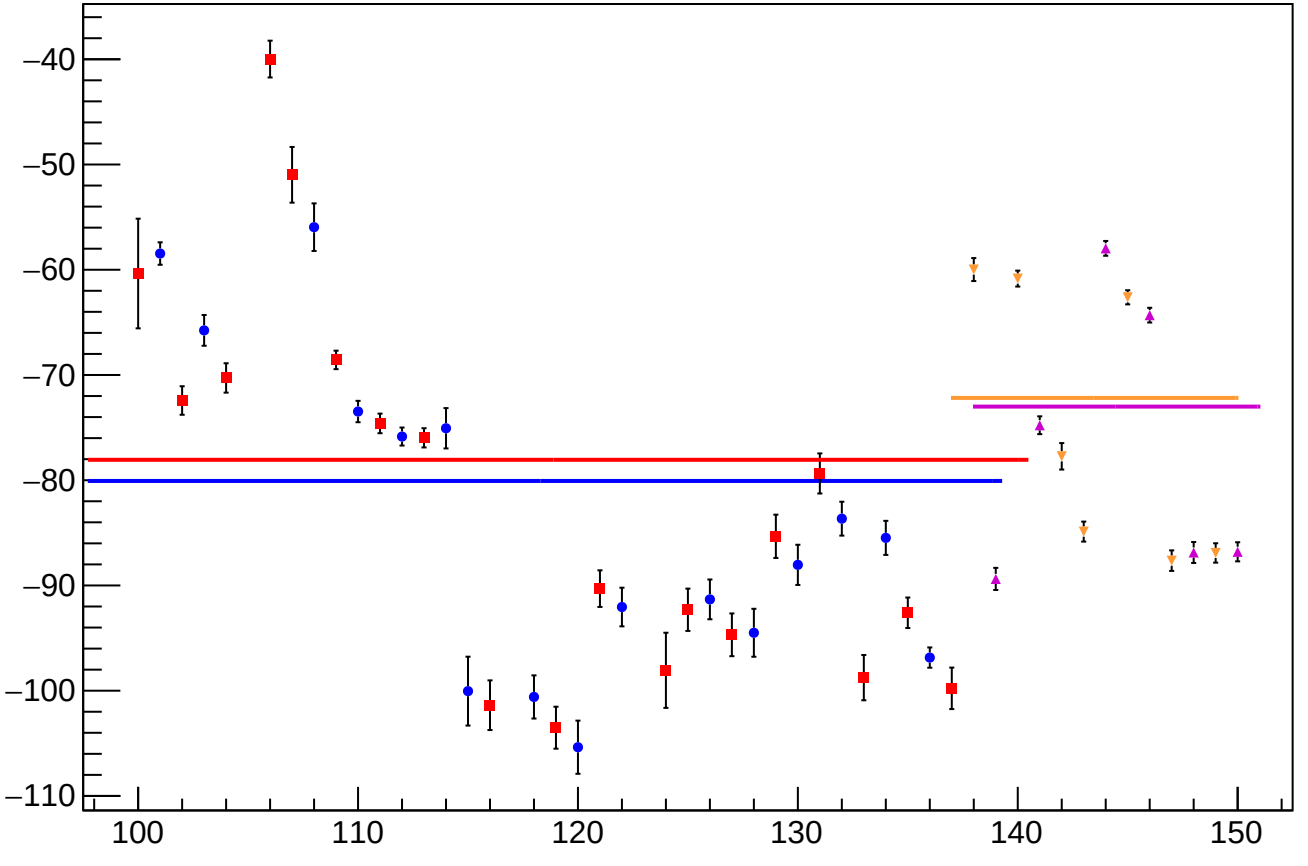
Right: -2.218+/-0.252 $\chi^2$/NDF: 1223.3/34

In: -2.945+/-0.194 $\chi^2$/NDF:1528.6/21

Out: -1.227+/-0.197 $\chi^2$/NDF:1786.5/25

All: -2.101+/-0.138 $\chi^2$/NDF: 3353.7/47

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -80.069+/-0.364 $\chi^2$/NDF: 1387.2/15

Left Out: -72.178+/-0.338 $\chi^2$/NDF:1256.4/6

Right Out: -78.059+/-0.354 $\chi^2$/NDF: 1561.2/18

Left In: -73.004+/-0.341 $\chi^2$/NDF:1283.2/5

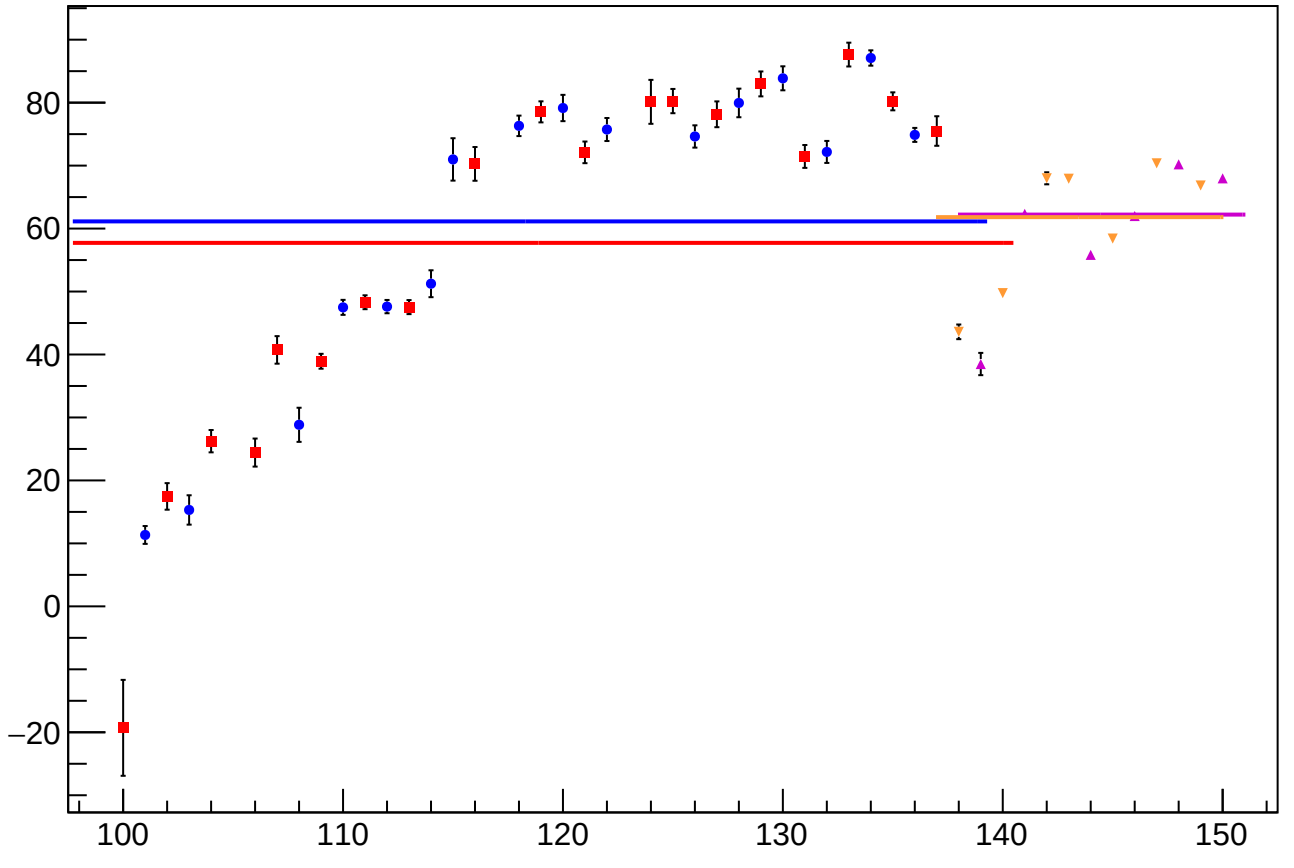
Left: -72.587+/-0.240 $\chi^2$/NDF: 2542.6/12

Right: -79.033+/-0.254 $\chi^2$/NDF: 2964.1/34

In: -76.305+/-0.249 $\chi^2$/NDF:2870.7/21

Out: -74.985+/-0.244 $\chi^2$/NDF:2962.3/25

All: -75.632+/-0.174 $\chi^2$/NDF: 5847.3/47




Right In: 61.139+/-0.401 $\chi^2$/NDF: 3229.3/15

Left Out: 61.815+/-0.289 $\chi^2$/NDF:860.3/6

Right Out: 57.728+/-0.400 $\chi^2$/NDF: 2775.6/18

Left In: 62.220+/-0.284 $\chi^2$/NDF:486.0/5

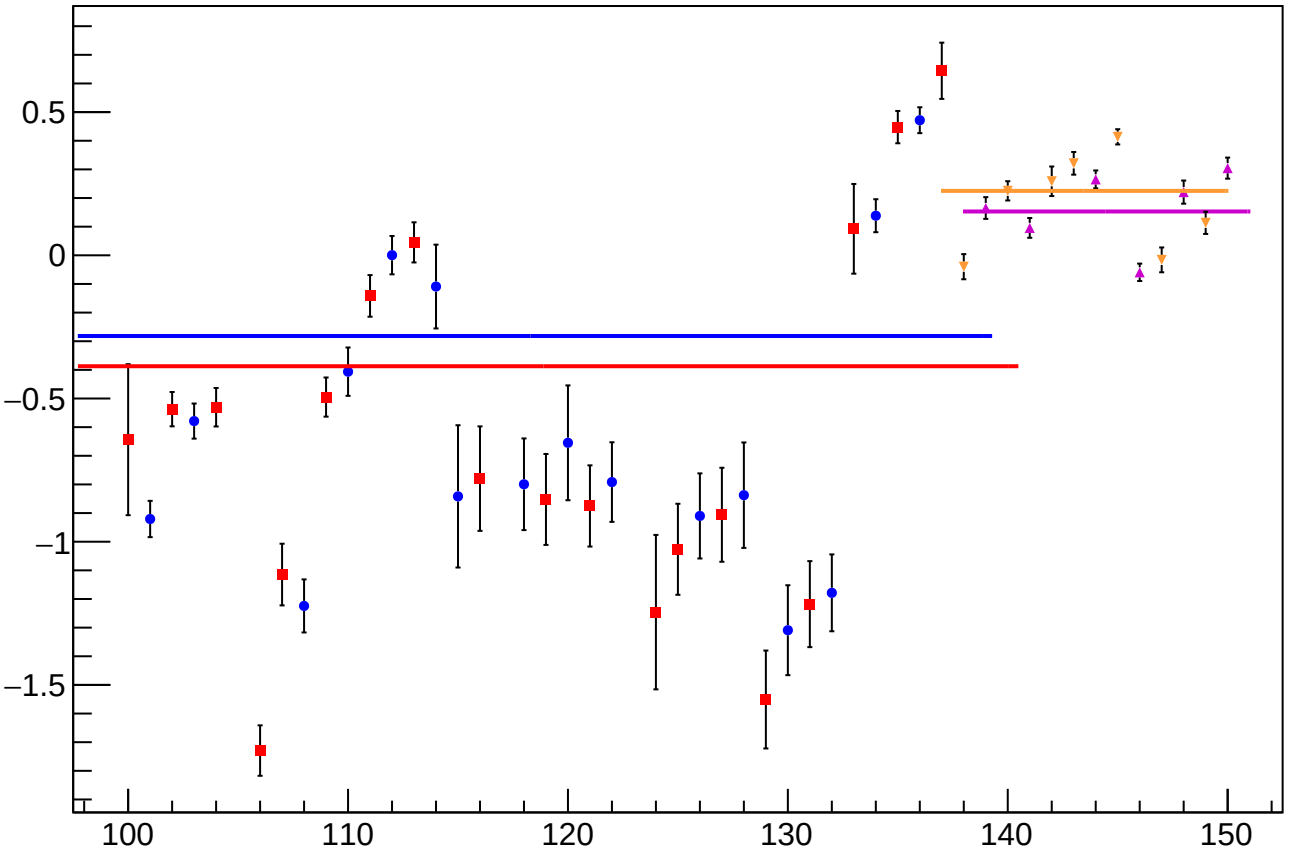
Left: 62.021+/-0.203 $\chi^2$/NDF: 1347.2/12

Right: 59.431+/-0.283 $\chi^2$/NDF: 6041.2/34

In: 61.858+/-0.232 $\chi^2$/NDF:3720.1/21

Out: 60.414+/-0.234 $\chi^2$/NDF:3704.5/25

All: 61.143+/-0.165 $\chi^2$/NDF: 7443.8/47




Right In: -0.282+/-0.022 $\chi^2$/NDF: 728.2/15

Left Out: 0.225+/-0.014 $\chi^2$/NDF:132.3/6

Right Out: -0.387+/-0.022 $\chi^2$/NDF: 818.7/18

Left In: 0.153+/-0.014 $\chi^2$/NDF:84.4/5

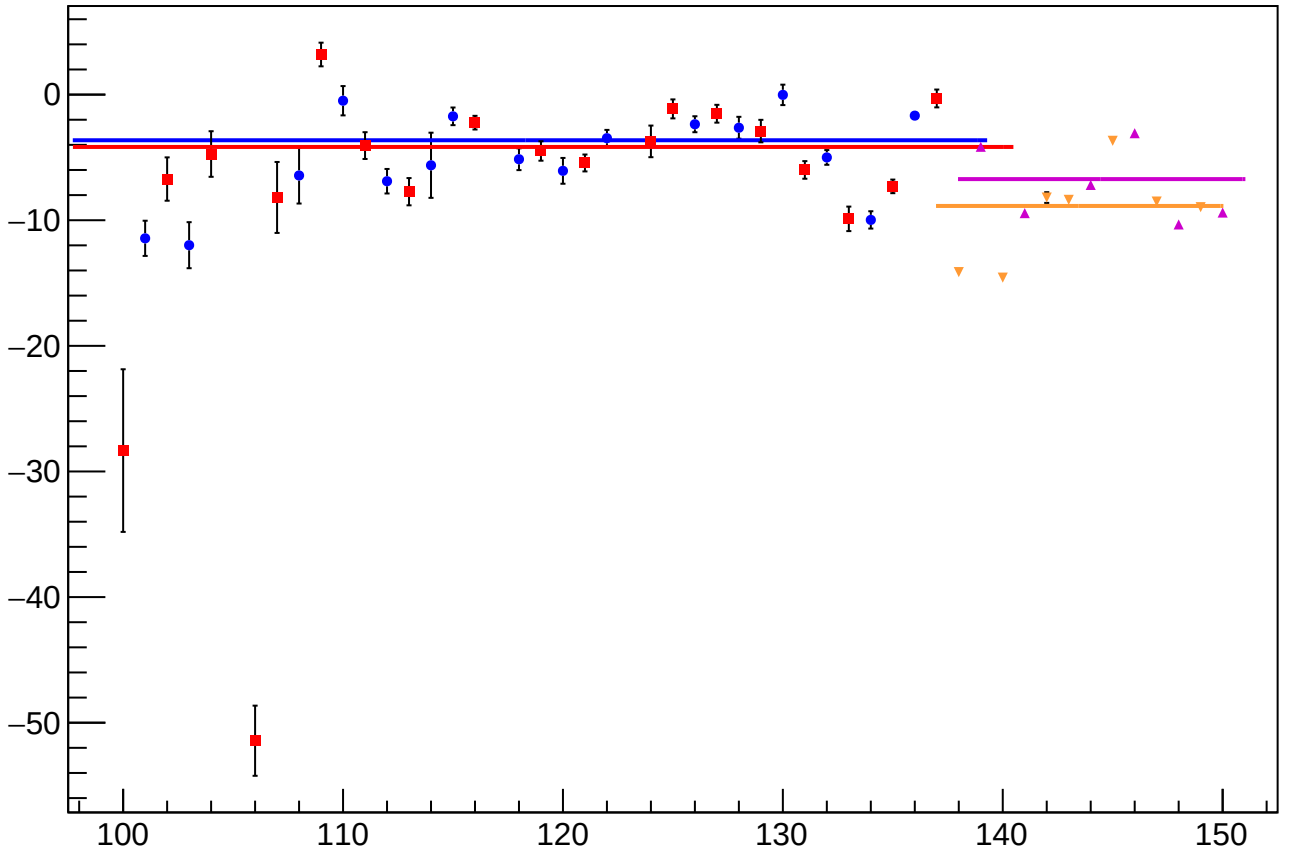
Left: 0.189+/-0.010 $\chi^2$/NDF: 229.7/12

Right: -0.334+/-0.015 $\chi^2$/NDF: 1558.7/34

In: 0.023+/-0.012 $\chi^2$/NDF:1095.6/21

Out: 0.046+/-0.012 $\chi^2$/NDF:1503.4/25

All: 0.034+/-0.008 $\chi^2$/NDF: 2600.9/47




Right In: -3.634+/-0.189 $\chi^2$/NDF: 234.8/15

Left Out: -8.863+/-0.116 $\chi^2$/NDF:1266.9/6

Right Out: -4.167+/-0.199 $\chi^2$/NDF: 529.7/18

Left In: -6.726+/-0.117 $\chi^2$/NDF:544.1/5

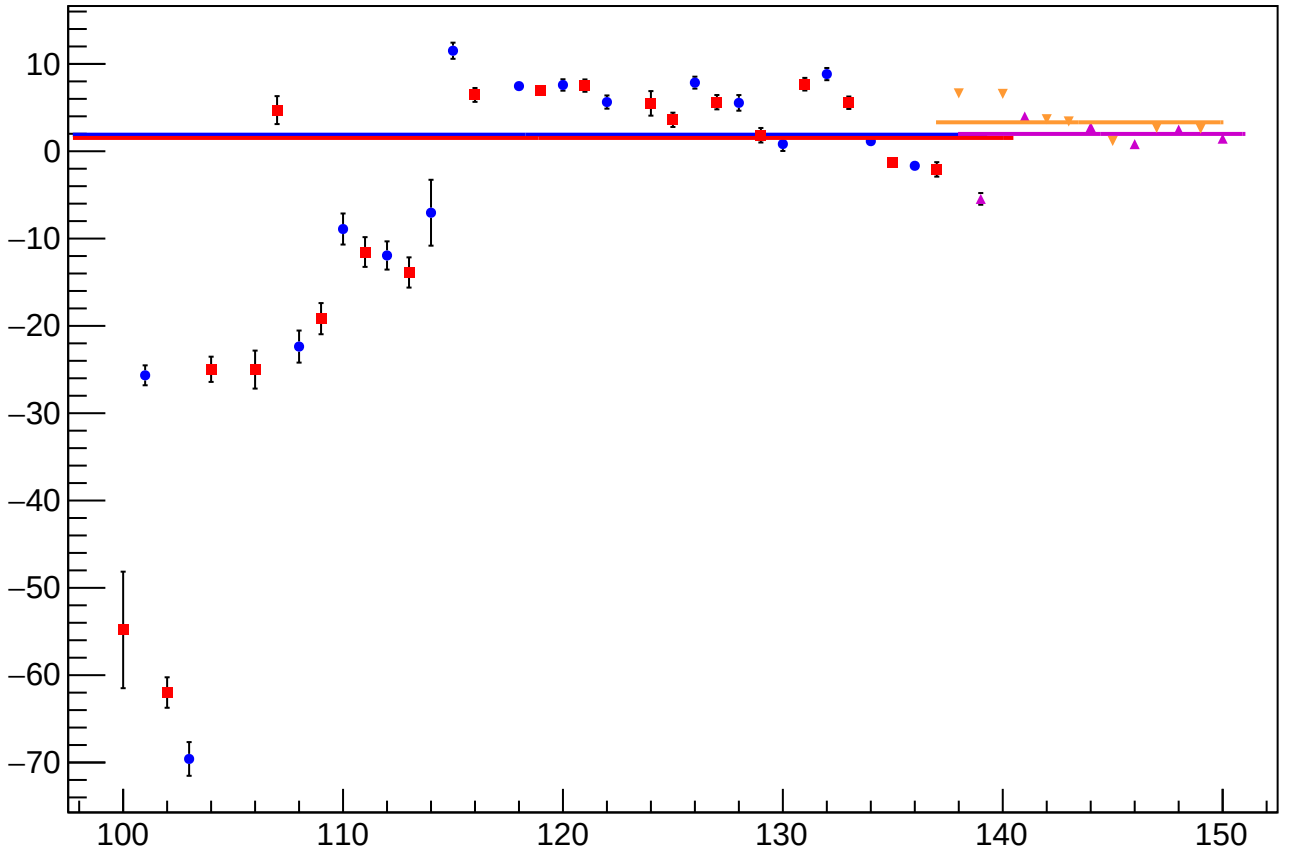
Left: -7.806+/-0.083 $\chi^2$/NDF: 1978.3/12

Right: -3.886+/-0.137 $\chi^2$/NDF: 768.2/34

In: -5.865+/-0.100 $\chi^2$/NDF:972.0/21

Out: -7.673+/-0.100 $\chi^2$/NDF:2210.6/25

All: -6.763+/-0.071 $\chi^2$/NDF: 3345.6/47




Right In: 1.898+/-0.189 $\chi^2$/NDF: 2838.2/15

Left Out: 3.315+/-0.083 $\chi^2$/NDF:487.9/6

Right Out: 1.525+/-0.208 $\chi^2$/NDF: 2559.8/18

Left In: 1.985+/-0.079 $\chi^2$/NDF:317.2/5

Left: 2.615+/-0.057 $\chi^2$/NDF: 940.9/12

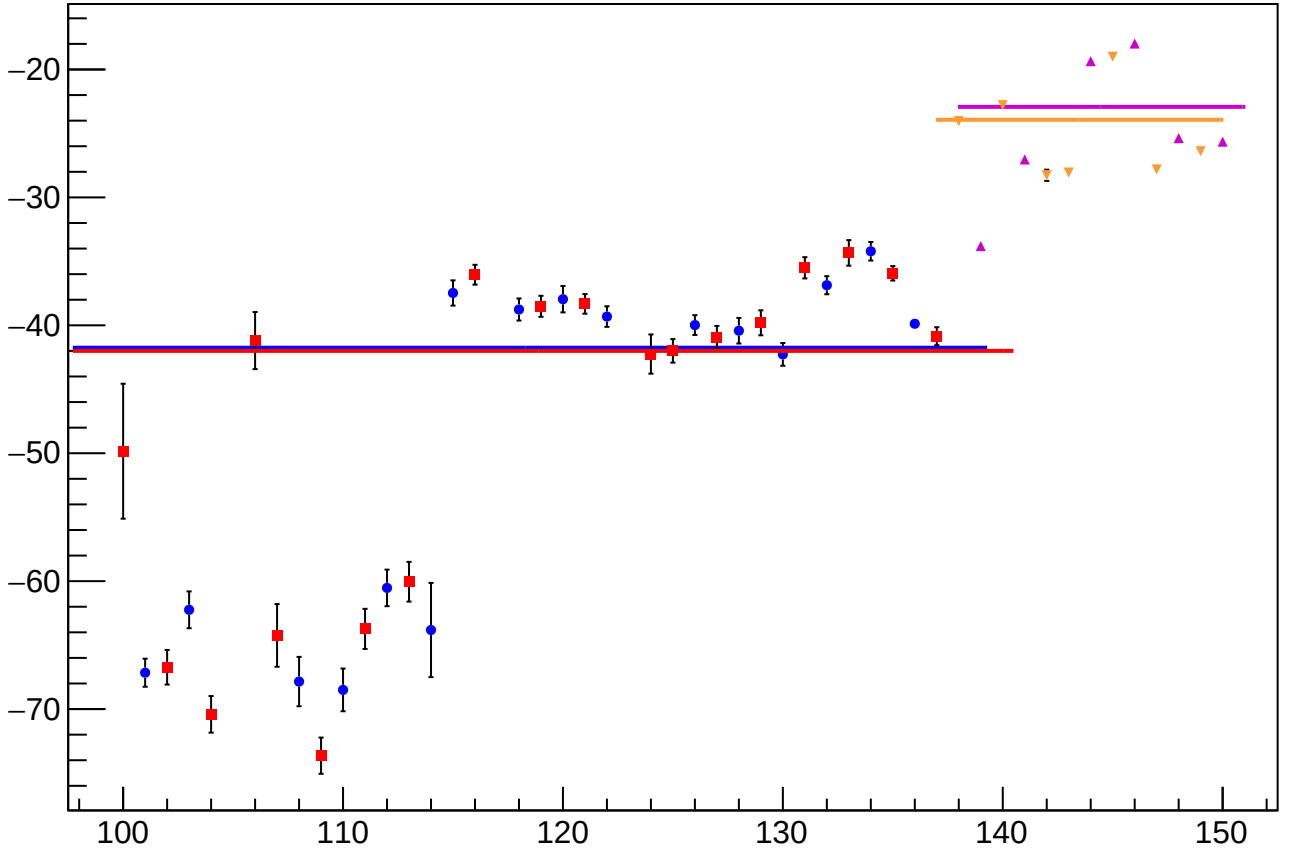
Right: 1.730+/-0.140 $\chi^2$/NDF: 5399.7/34

In: 1.972+/-0.073 $\chi^2$/NDF:3155.6/21

Out: 3.070+/-0.077 $\chi^2$/NDF:3111.4/25

All: 2.489+/-0.053 $\chi^2$/NDF: 6374.9/47

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -41.751+/-0.208 $\chi^2$/NDF: 1633.9/15

Left Out: -23.932+/-0.117 $\chi^2$/NDF:949.5/6

Right Out: -41.999+/-0.228 $\chi^2$/NDF: 1985.2/18

Left In: -22.922+/-0.116 $\chi^2$/NDF:1839.0/5

Left: -23.423+/-0.083 $\chi^2$/NDF: 2825.9/12

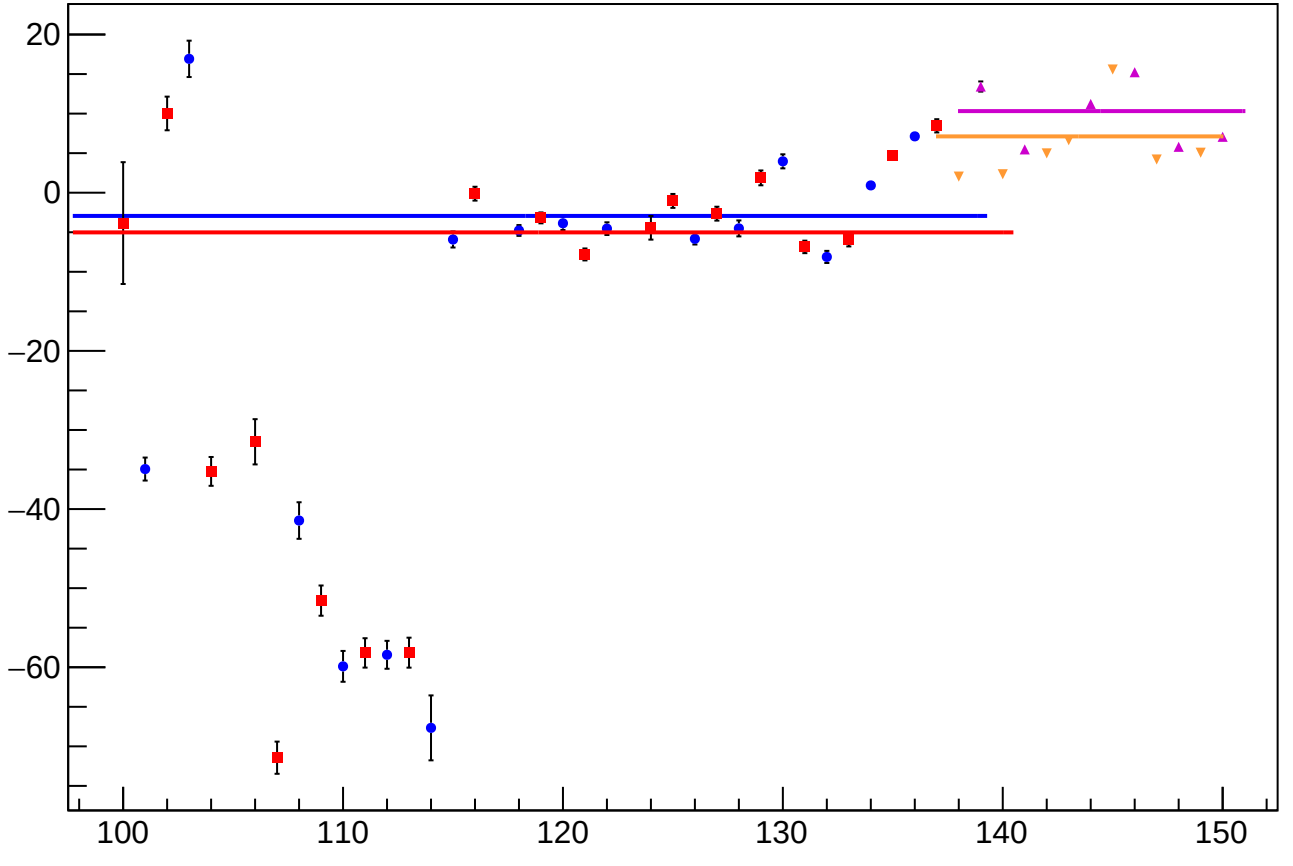
Right: -41.863+/-0.154 $\chi^2$/NDF: 3619.8/34

In: -27.423+/-0.102 $\chi^2$/NDF:9731.2/21

Out: -27.707+/-0.104 $\chi^2$/NDF:7890.5/25

All: -27.561+/-0.073 $\chi^2$/NDF: 17625.5/47

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -2.936+/-0.210 $\chi^2$/NDF: 3725.6/15

Left Out: 7.119+/-0.101 $\chi^2$/NDF:2485.9/6

Right Out: -5.018+/-0.232 $\chi^2$/NDF: 4377.3/18

Left In: 10.317+/-0.097 $\chi^2$/NDF:1701.7/5

Left: 8.784+/-0.070 $\chi^2$/NDF: 4713.7/12

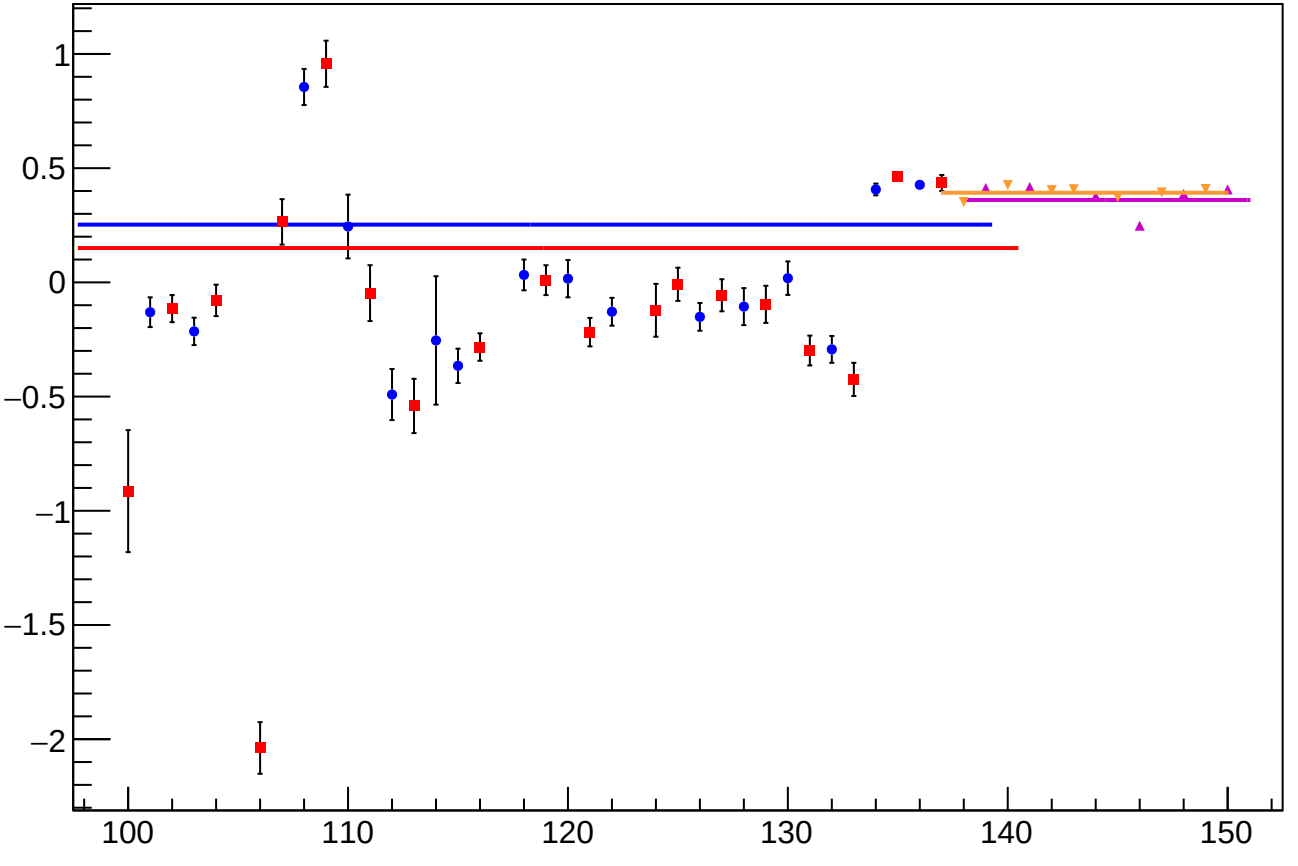
Right: -3.873+/-0.155 $\chi^2$/NDF: 8147.2/34

In: 7.999+/-0.088 $\chi^2$/NDF:8724.2/21

Out: 5.194+/-0.092 $\chi^2$/NDF:9169.9/25

All: 6.668+/-0.064 $\chi^2$/NDF: 18379.3/47

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.253+/-0.011 $\chi^2$/NDF: 631.0/15

Left Out: 0.392+/-0.005 $\chi^2$/NDF:23.0/6

Right Out: 0.150+/-0.013 $\chi^2$/NDF: 1018.0/18

Left In: 0.361+/-0.005 $\chi^2$/NDF:190.1/5

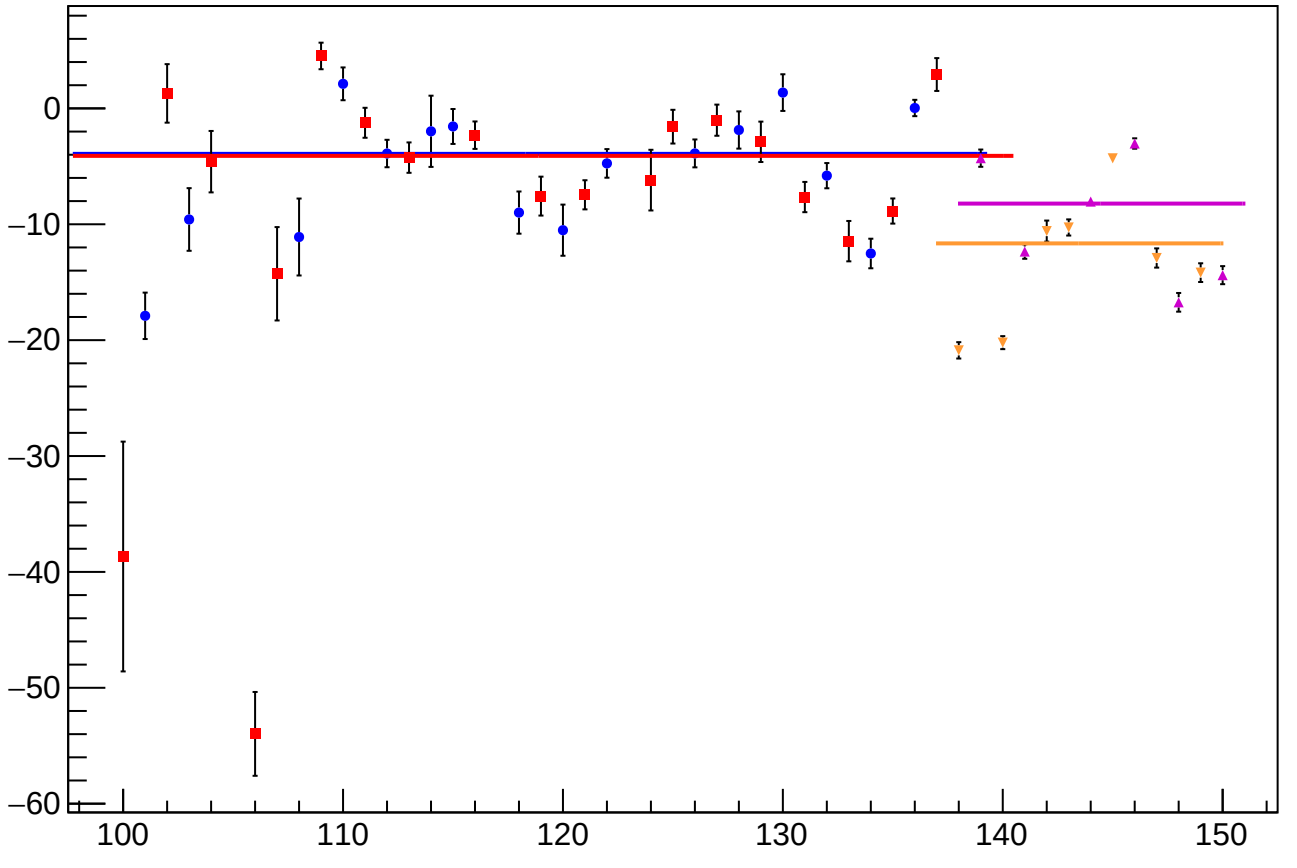
Left: 0.376+/-0.003 $\chi^2$/NDF: 234.4/12

Right: 0.209+/-0.009 $\chi^2$/NDF: 1682.8/34

In: 0.344+/-0.004 $\chi^2$/NDF:896.0/21

Out: 0.364+/-0.005 $\chi^2$/NDF:1330.9/25

All: 0.354+/-0.003 $\chi^2$/NDF: 2236.2/47




Right In: -3.924+/-0.346 $\chi^2$/NDF: 188.8/15

Left Out: -11.650+/-0.236 $\chi^2$/NDF:768.8/6

Right Out: -4.096+/-0.357 $\chi^2$/NDF: 366.9/18

Left In: -8.215+/-0.236 $\chi^2$/NDF:380.6/5

Left: -9.930+/-0.167 $\chi^2$/NDF: 1255.1/12

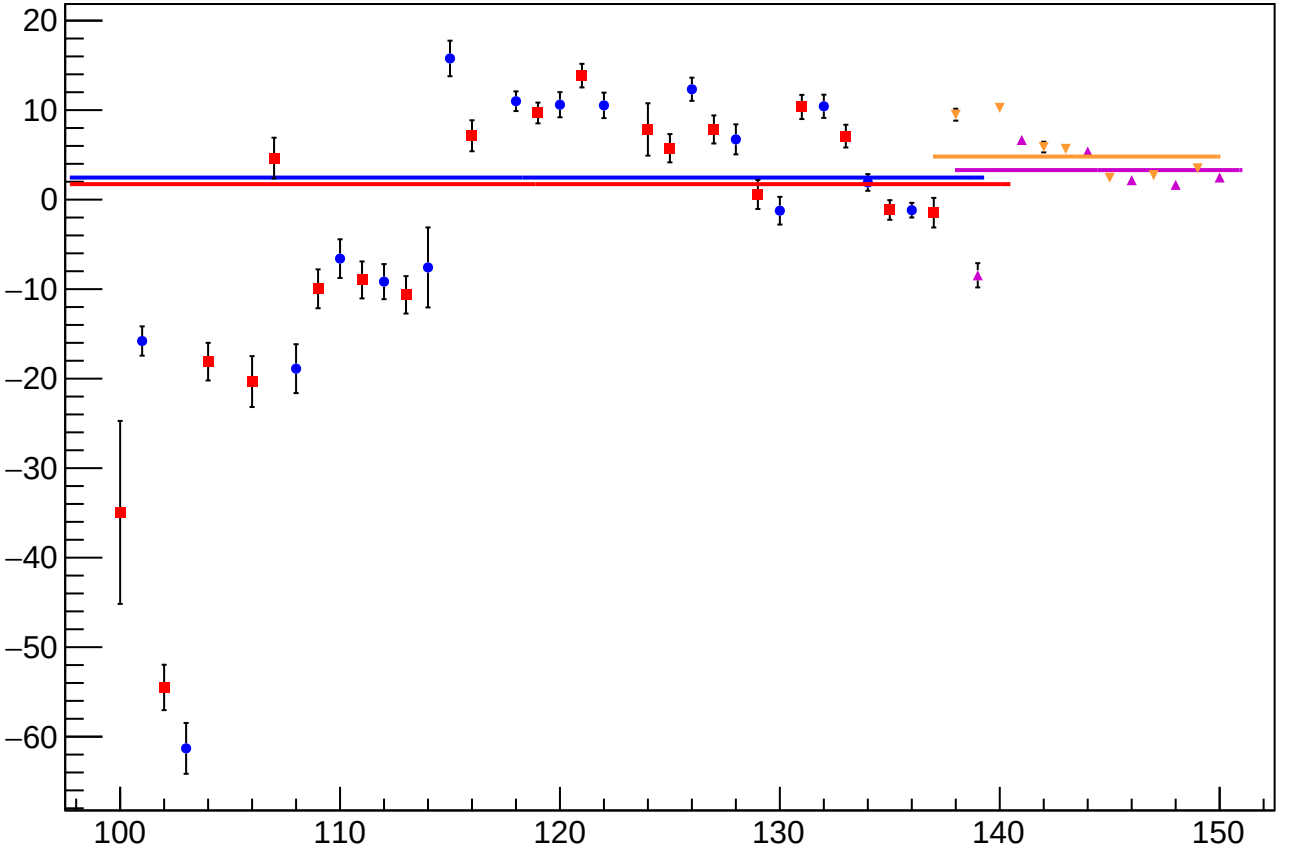
Right: -4.007+/-0.248 $\chi^2$/NDF: 555.8/34

In: -6.852+/-0.195 $\chi^2$/NDF:674.4/21

Out: -9.345+/-0.197 $\chi^2$/NDF:1447.1/25

All: -8.085+/-0.139 $\chi^2$/NDF: 2202.3/47

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.465+/-0.357 $\chi^2$/NDF: 1046.7/15

Left Out: 4.812+/-0.171 $\chi^2$/NDF:284.9/6

Right Out: 1.728+/-0.386 $\chi^2$/NDF: 983.1/18

Left In: 3.300+/-0.158 $\chi^2$/NDF:212.7/5

Left: 3.994+/-0.116 $\chi^2$/NDF: 540.0/12

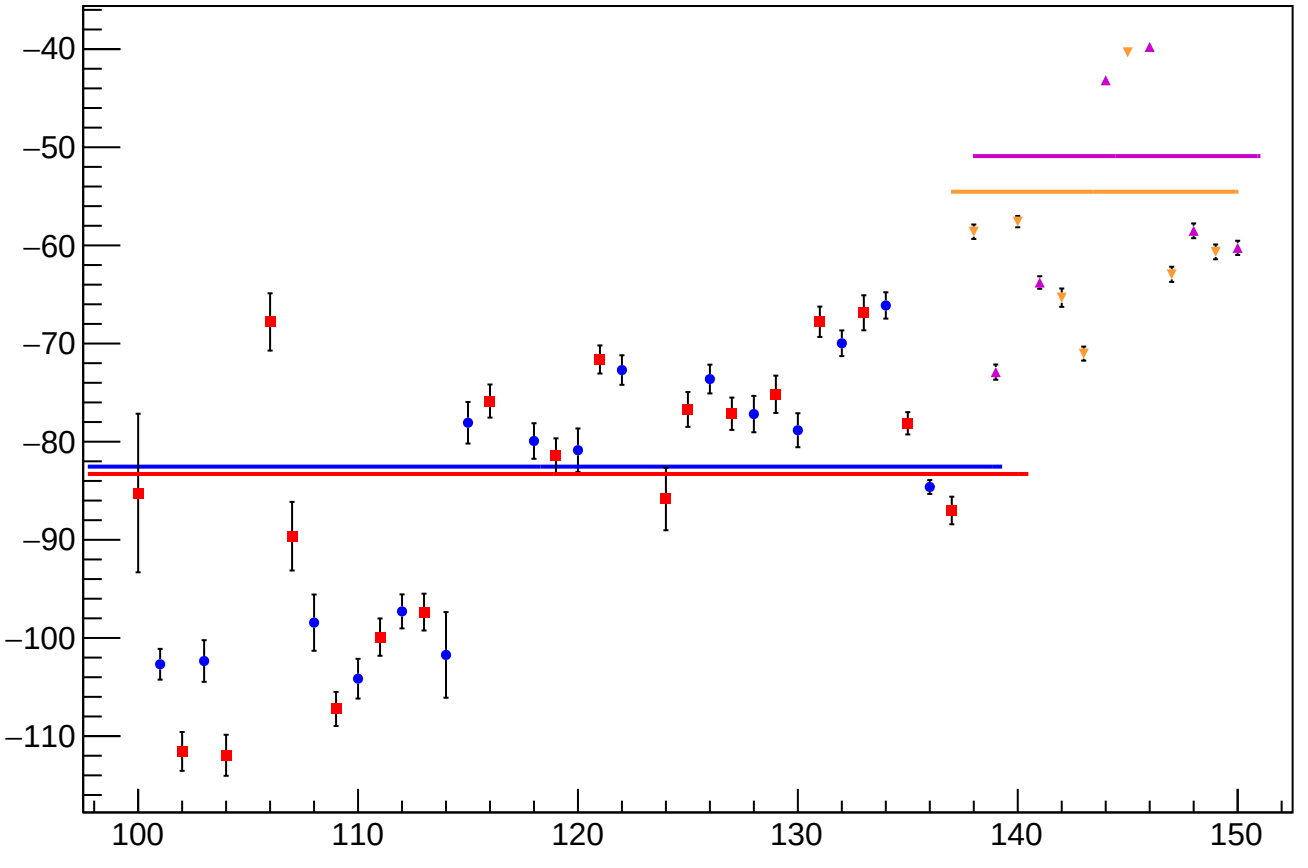
Right: 2.126+/-0.262 $\chi^2$/NDF: 2031.8/34

In: 3.164+/-0.144 $\chi^2$/NDF:1264.0/21

Out: 4.307+/-0.156 $\chi^2$/NDF:1321.4/25

All: 3.689+/-0.106 $\chi^2$/NDF: 2614.4/47

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -82.542+/-0.384 $\chi^2$/NDF: 838.8/15

Left Out: -54.530+/-0.240 $\chi^2$/NDF:2125.8/6

Right Out: -83.290+/-0.414 $\chi^2$/NDF: 1092.6/18

Left In: -50.900+/-0.234 $\chi^2$/NDF:2445.9/5

Left: -52.675+/-0.168 $\chi^2$/NDF: 4689.0/12

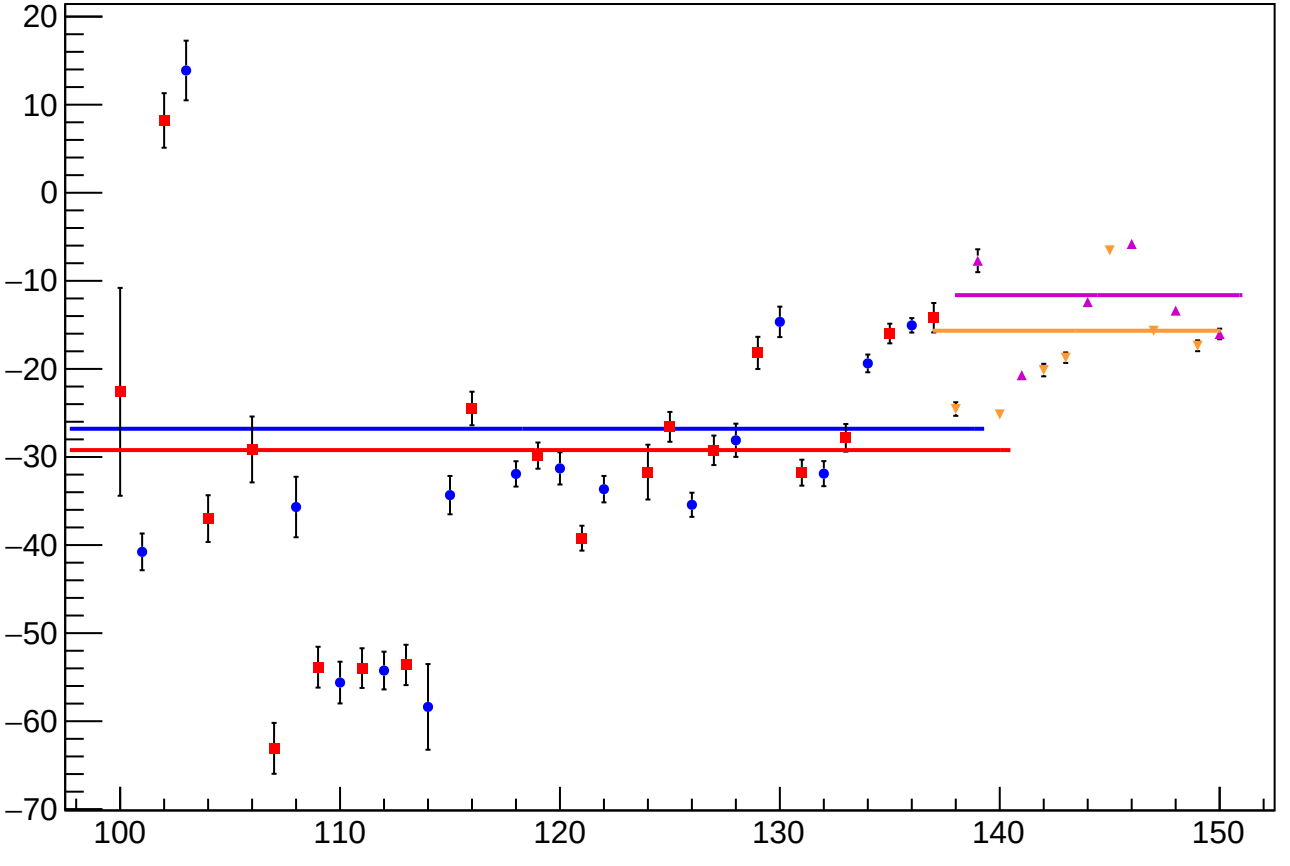
Right: -82.888+/-0.282 $\chi^2$/NDF: 1933.1/34

In: -59.481+/-0.200 $\chi^2$/NDF:8225.3/21

Out: -61.740+/-0.207 $\chi^2$/NDF:6829.8/25

All: -60.570+/-0.144 $\chi^2$/NDF: 15116.6/47

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -26.796+/-0.396 $\chi^2$/NDF: 963.5/15

Left Out: -15.663+/-0.207 $\chi^2$/NDF:1114.4/6

Right Out: -29.216+/-0.431 $\chi^2$/NDF: 960.7/18

Left In: -11.627+/-0.194 $\chi^2$/NDF:666.4/5

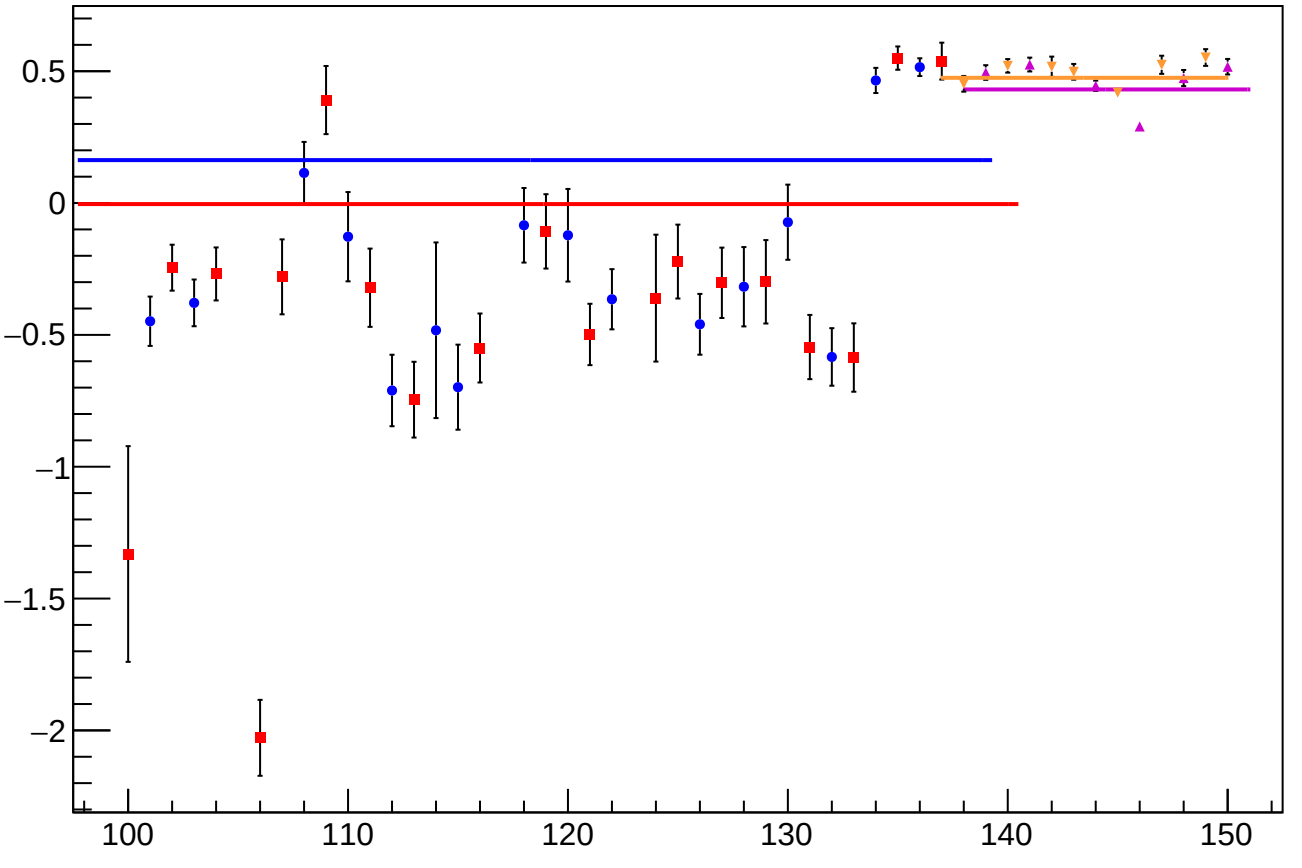
Left: -13.516+/-0.141 $\chi^2$/NDF: 1983.6/12

Right: -27.902+/-0.291 $\chi^2$/NDF: 1941.2/34

In: -14.565+/-0.174 $\chi^2$/NDF:2815.4/21

Out: -18.197+/-0.186 $\chi^2$/NDF:2878.7/25

All: -16.257+/-0.127 $\chi^2$/NDF: 5896.7/47




Right In: 0.163+/-0.021 $\chi^2$/NDF: 422.6/15

Left Out: 0.475+/-0.010 $\chi^2$/NDF:25.5/6

Right Out: -0.004+/-0.024 $\chi^2$/NDF: 573.3/18

Left In: 0.431+/-0.010 $\chi^2$/NDF:85.6/5

Left: 0.453+/-0.007 $\chi^2$/NDF: 121.1/12

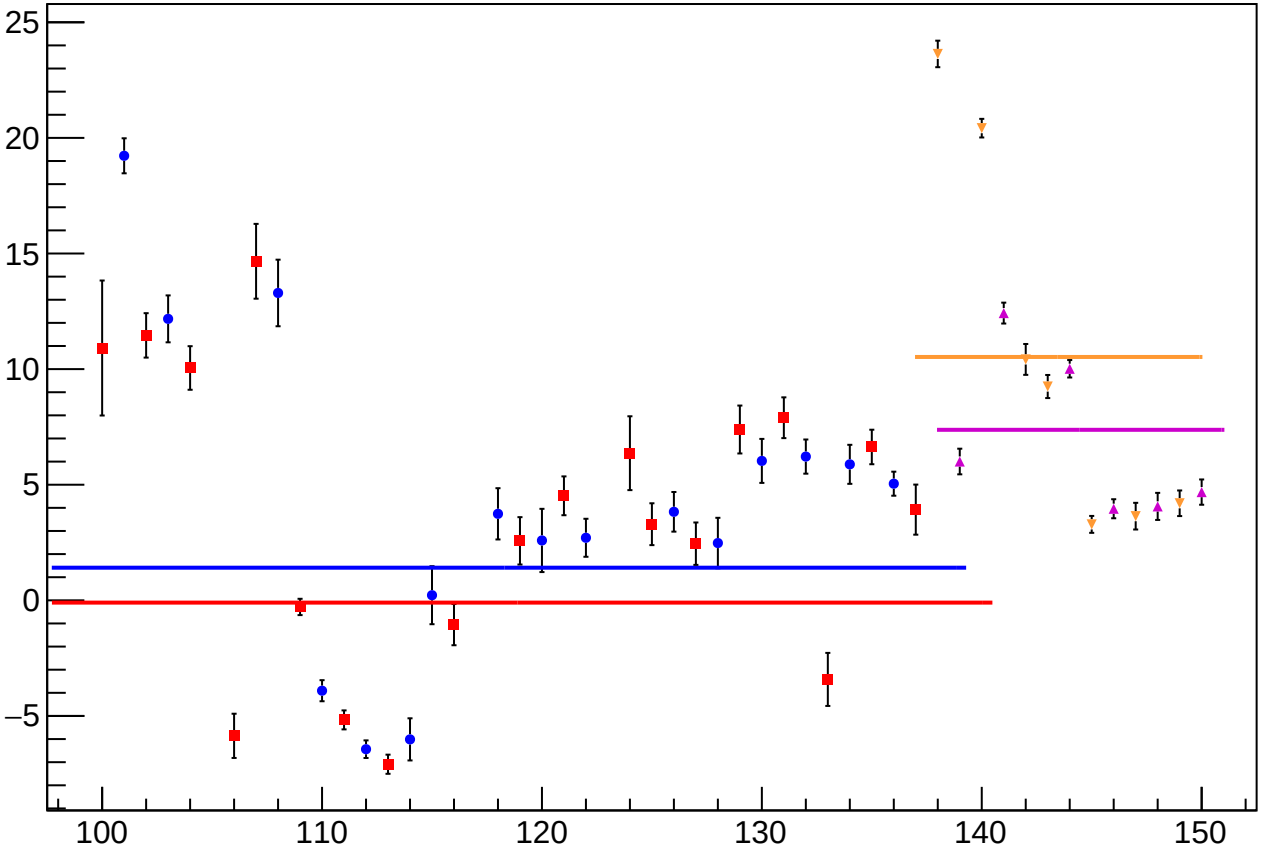
Right: 0.090+/-0.016 $\chi^2$/NDF: 1022.3/34

In: 0.384+/-0.009 $\chi^2$/NDF:637.9/21

Out: 0.407+/-0.009 $\chi^2$/NDF:929.0/25

All: 0.395+/-0.006 $\chi^2$/NDF: 1569.9/47

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 1.412+/-0.183 $\chi^2$/NDF: 1522.1/15

Left Out: 10.525+/-0.185 $\chi^2$/NDF:1797.8/6

Right Out: -0.098+/-0.167 $\chi^2$/NDF: 1147.2/18

Left In: 7.375+/-0.191 $\chi^2$/NDF:305.1/5

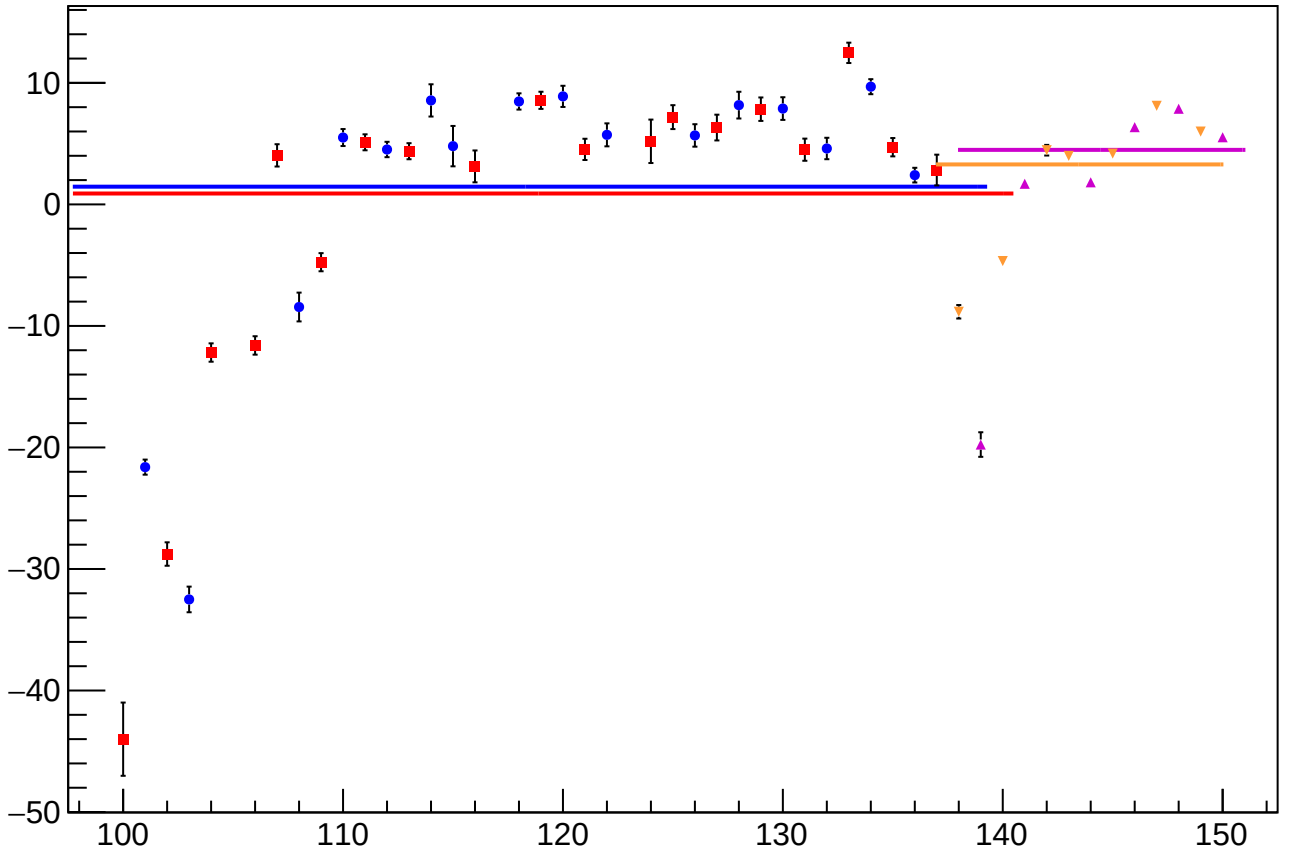
Left: 9.002+/-0.133 $\chi^2$/NDF: 2243.1/12

Right: 0.589+/-0.124 $\chi^2$/NDF: 2706.4/34

In: 4.264+/-0.132 $\chi^2$/NDF:2334.6/21

Out: 4.684+/-0.124 $\chi^2$/NDF:4758.0/25

All: 4.487+/-0.091 $\chi^2$/NDF: 7097.9/47




Right In: 1.459+/-0.203 $\chi^2$/NDF: 3080.3/15

Left Out: 3.289+/-0.131 $\chi^2$/NDF:1458.7/6

Right Out: 0.896+/-0.202 $\chi^2$/NDF: 2377.1/18

Left In: 4.487+/-0.128 $\chi^2$/NDF:956.5/5

Left: 3.901+/-0.092 $\chi^2$/NDF: 2458.0/12

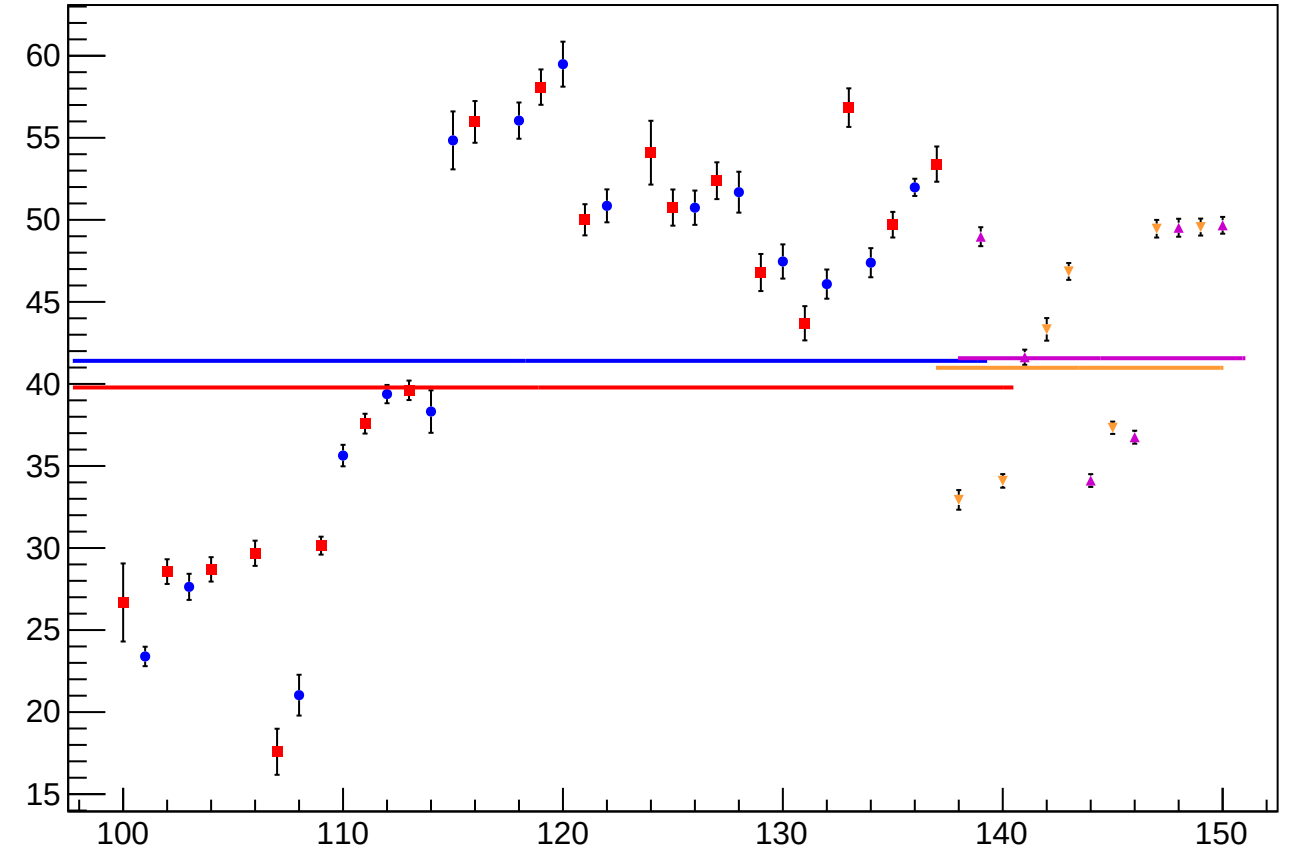
Right: 1.176+/-0.143 $\chi^2$/NDF: 5461.2/34

In: 3.627+/-0.108 $\chi^2$/NDF:4195.4/21

Out: 2.583+/-0.110 $\chi^2$/NDF:3934.6/25

All: 3.112+/-0.077 $\chi^2$/NDF: 8175.9/47

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 41.407+/-0.211 $\chi^2$/NDF: 2746.0/15

Left Out: 40.984+/-0.186 $\chi^2$/NDF:1218.3/6

Right Out: 39.784+/-0.203 $\chi^2$/NDF: 2653.8/18

Left In: 41.567+/-0.190 $\chi^2$/NDF:1142.8/5

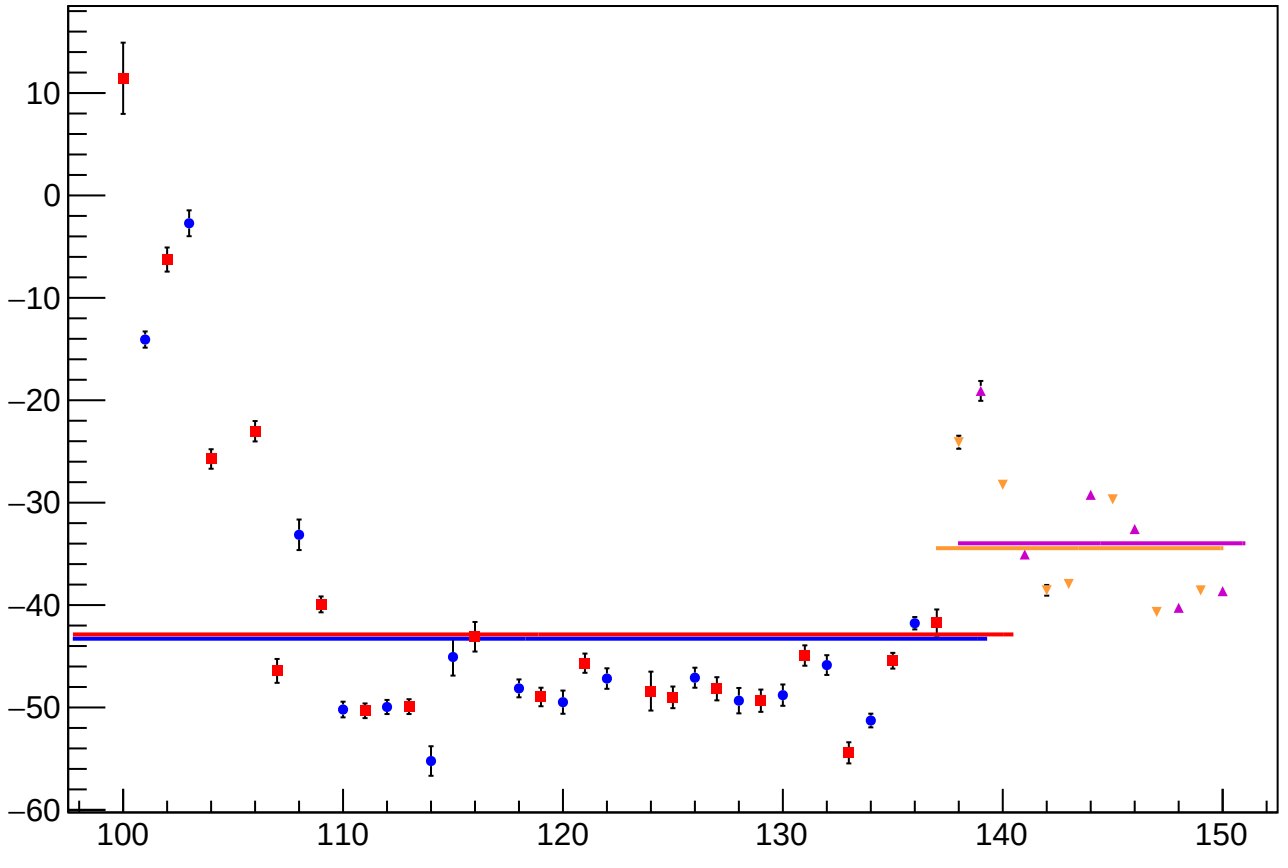
Left: 41.271+/-0.133 $\chi^2$/NDF: 2365.9/12

Right: 40.565+/-0.146 $\chi^2$/NDF: 5430.6/34

In: 41.495+/-0.141 $\chi^2$/NDF:3889.2/21

Out: 40.435+/-0.137 $\chi^2$/NDF:3891.1/25

All: 40.951+/-0.098 $\chi^2$/NDF: 7809.3/47




Right In: -43.285+/-0.229 $\chi^2$/NDF: 2985.2/15

Left Out: -34.445+/-0.159 $\chi^2$/NDF:1210.1/6

Right Out: -42.867+/-0.229 $\chi^2$/NDF: 2454.2/18

Left In: -33.969+/-0.158 $\chi^2$/NDF:863.3/5

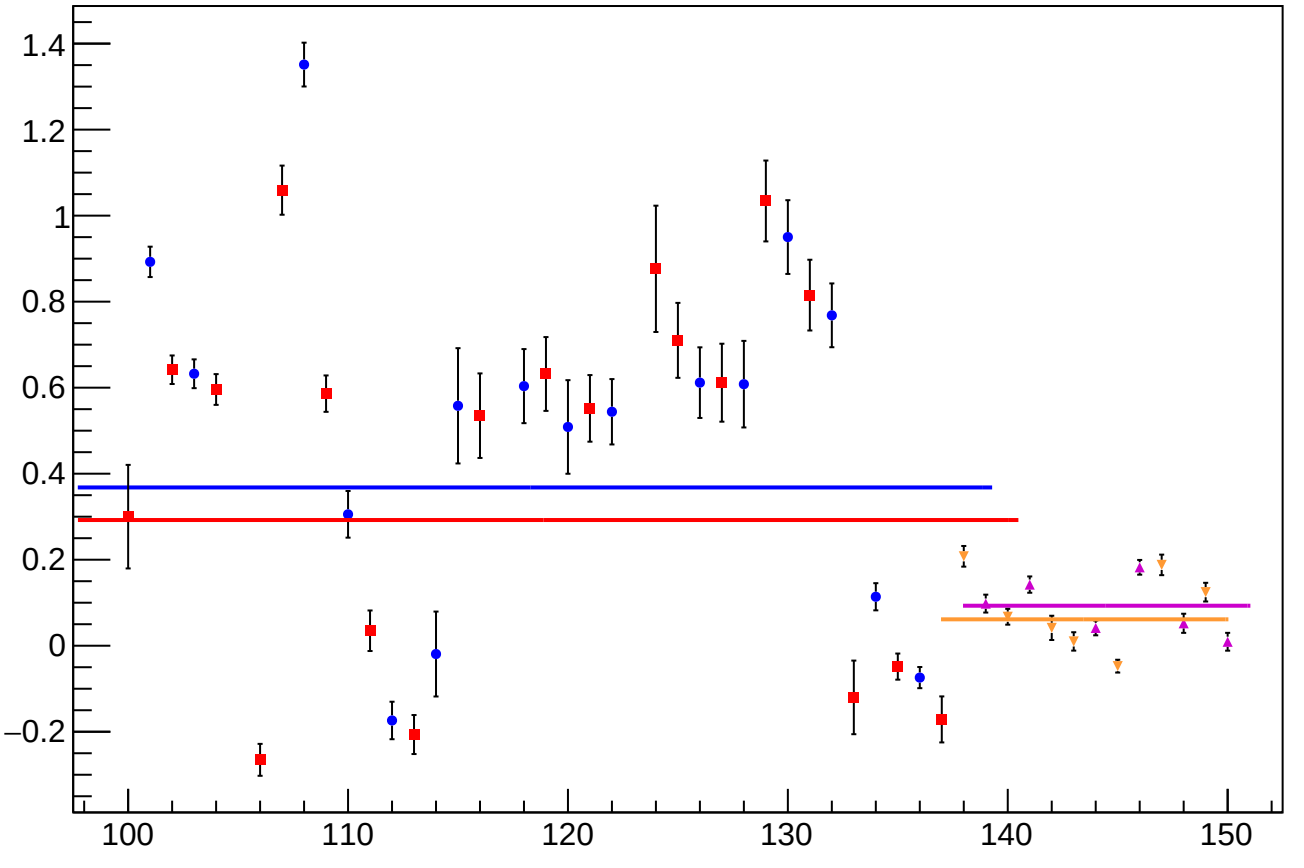
Left: -34.204+/-0.112 $\chi^2$/NDF: 2077.9/12

Right: -43.076+/-0.162 $\chi^2$/NDF: 5441.1/34

In: -36.960+/-0.130 $\chi^2$/NDF:4969.1/21

Out: -37.192+/-0.131 $\chi^2$/NDF:4575.5/25

All: -37.075+/-0.092 $\chi^2$/NDF: 9546.2/47




Right In: 0.368+/-0.012 $\chi^2$/NDF: 1320.9/15

Left Out: 0.061+/-0.008 $\chi^2$/NDF:133.5/6

Right Out: 0.292+/-0.012 $\chi^2$/NDF: 1199.2/18

Left In: 0.093+/-0.008 $\chi^2$/NDF:62.7/5

Left: 0.077+/-0.006 $\chi^2$/NDF: 204.4/12

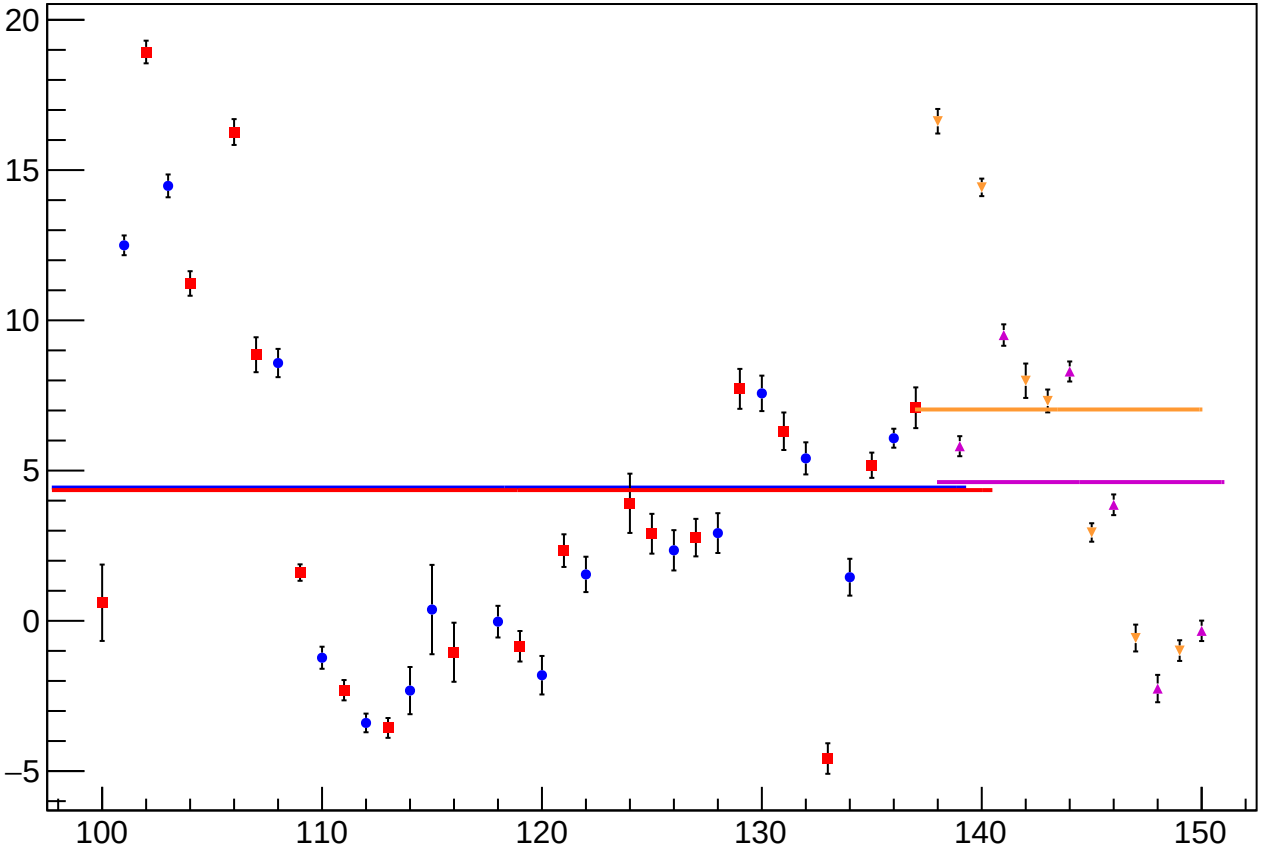
Right: 0.330+/-0.009 $\chi^2$/NDF: 2539.6/34

In: 0.174+/-0.007 $\chi^2$/NDF:1742.9/21

Out: 0.129+/-0.007 $\chi^2$/NDF:1590.2/25

All: 0.151+/-0.005 $\chi^2$/NDF: 3356.1/47

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 4.435+/-0.117 $\chi^2$/NDF: 2622.0/15

Left Out: 7.033+/-0.139 $\chi^2$/NDF:2208.4/6

Right Out: 4.351+/-0.109 $\chi^2$/NDF: 4205.3/18

Left In: 4.617+/-0.145 $\chi^2$/NDF:767.2/5

Left: 5.874+/-0.100 $\chi^2$/NDF: 3120.6/12

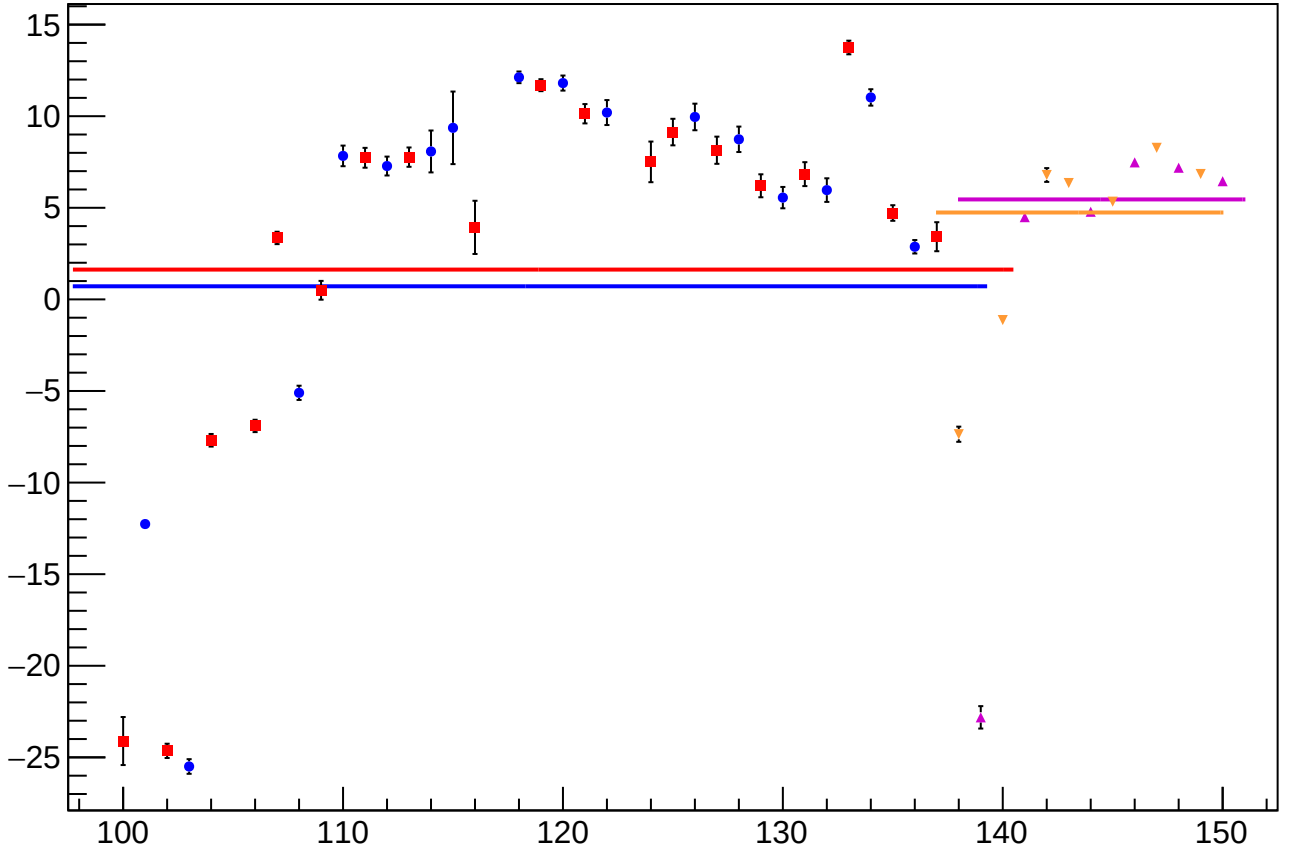
Right: 4.390+/-0.080 $\chi^2$/NDF: 6827.6/34

In: 4.507+/-0.091 $\chi^2$/NDF:3390.2/21

Out: 5.374+/-0.086 $\chi^2$/NDF:6644.2/25

All: 4.966+/-0.062 $\chi^2$/NDF: 10082.5/47

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.715+/-0.116 $\chi^2$/NDF: 10454.0/15

Left Out: 4.743+/-0.099 $\chi^2$/NDF:1877.1/6

Right Out: 1.627+/-0.111 $\chi^2$/NDF: 9255.5/18

Left In: 5.456+/-0.102 $\chi^2$/NDF:2330.1/5

Left: 5.090+/-0.071 $\chi^2$/NDF: 4232.3/12

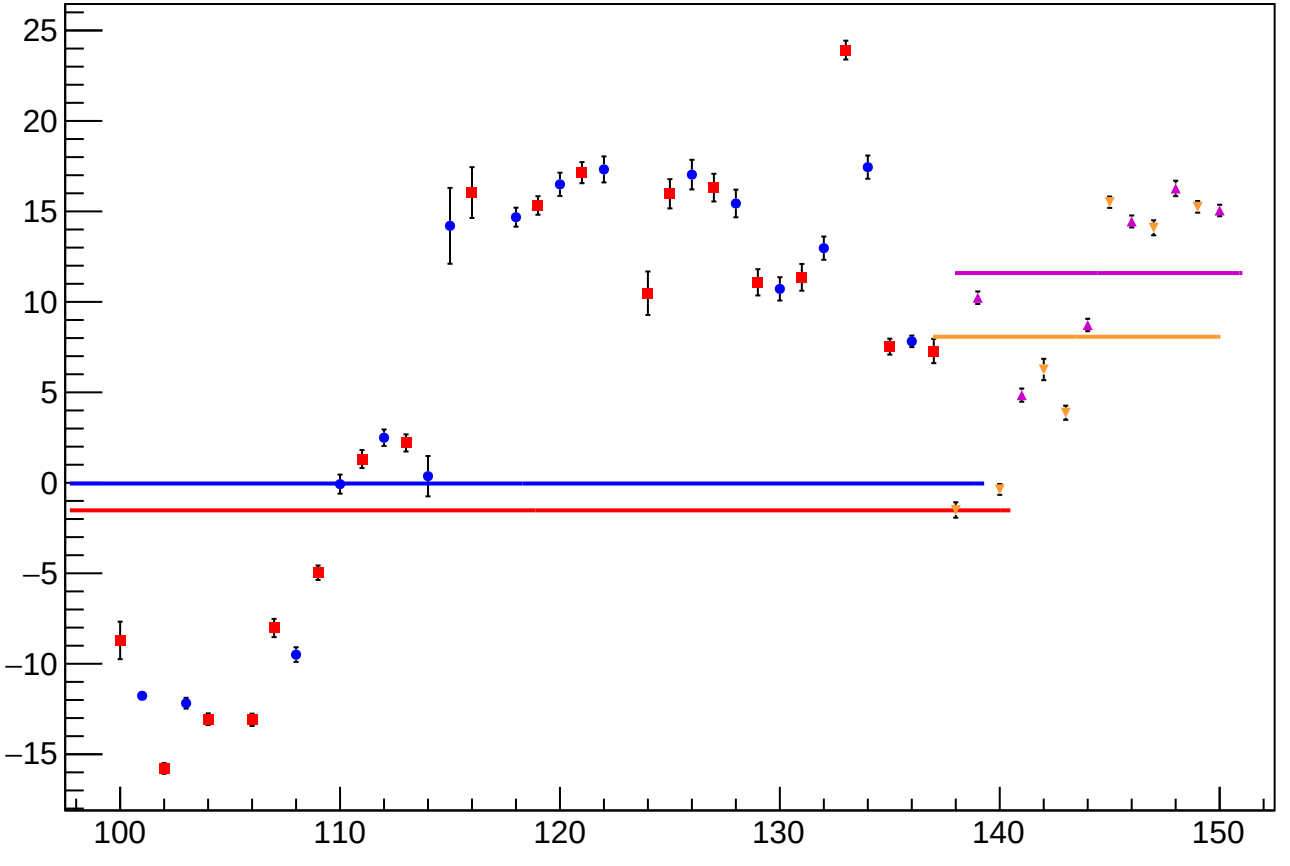
Right: 1.190+/-0.080 $\chi^2$/NDF: 19741.8/34

In: 3.387+/-0.077 $\chi^2$/NDF:13726.8/21

Out: 3.359+/-0.074 $\chi^2$/NDF:11570.3/25

All: 3.372+/-0.053 $\chi^2$/NDF: 25297.1/47

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.038+/-0.119 $\chi^2$/NDF: 9274.3/15

Left Out: 8.072+/-0.139 $\chi^2$/NDF:2683.9/6

Right Out: -1.521+/-0.115 $\chi^2$/NDF: 12130.2/18

Left In: 11.593+/-0.143 $\chi^2$/NDF:737.7/5

Left: 9.784+/-0.100 $\chi^2$/NDF: 3732.3/12

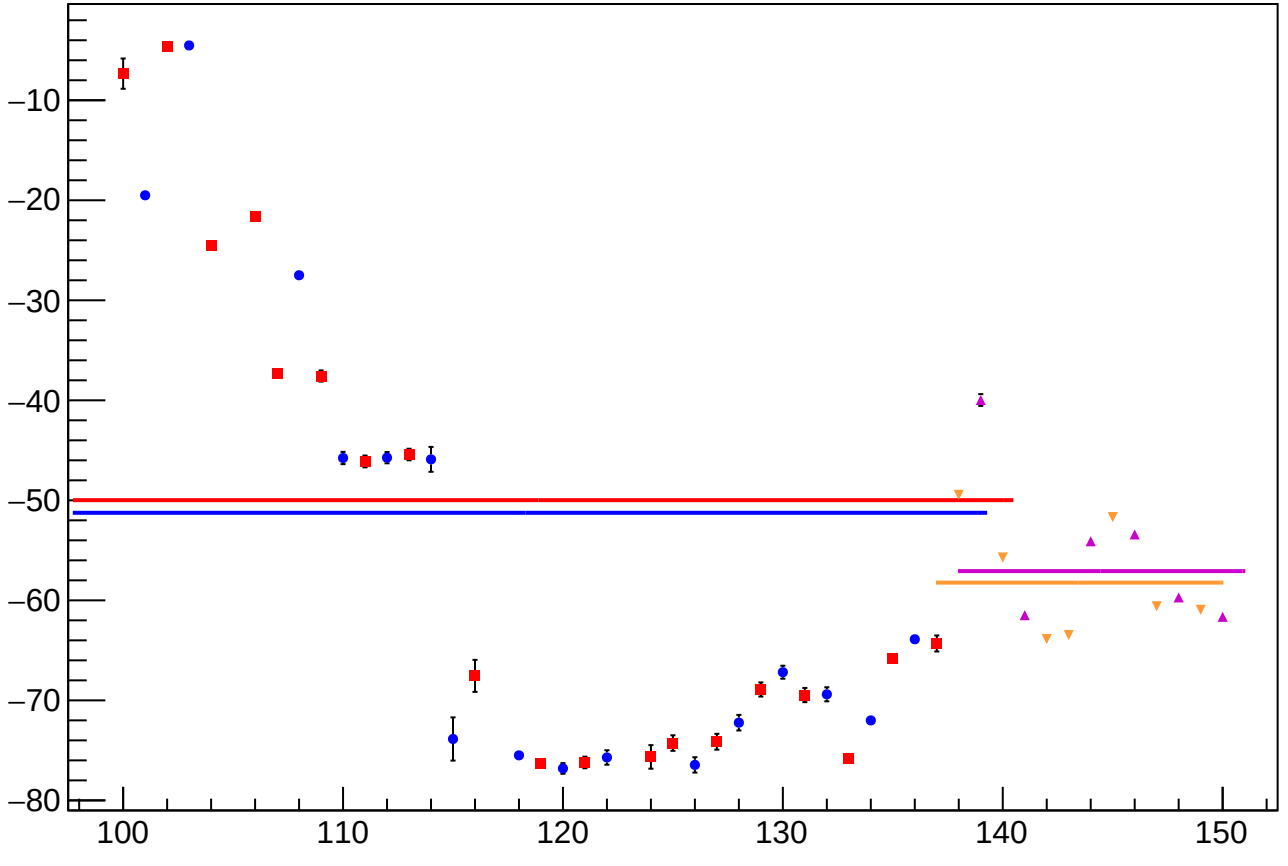
Right: -0.807+/-0.083 $\chi^2$/NDF: 21484.6/34

In: 4.731+/-0.092 $\chi^2$/NDF:13905.2/21

Out: 2.370+/-0.089 $\chi^2$/NDF:17632.6/25

All: 3.512+/-0.064 $\chi^2$/NDF: 31880.1/47

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -51.246+/-0.136 $\chi^2$/NDF: 33765.2/15

Left Out: -58.230+/-0.120 $\chi^2$/NDF:1515.1/6

Right Out: -49.983+/-0.131 $\chi^2$/NDF: 33892.5/18

Left In: -57.076+/-0.124 $\chi^2$/NDF:1728.1/5

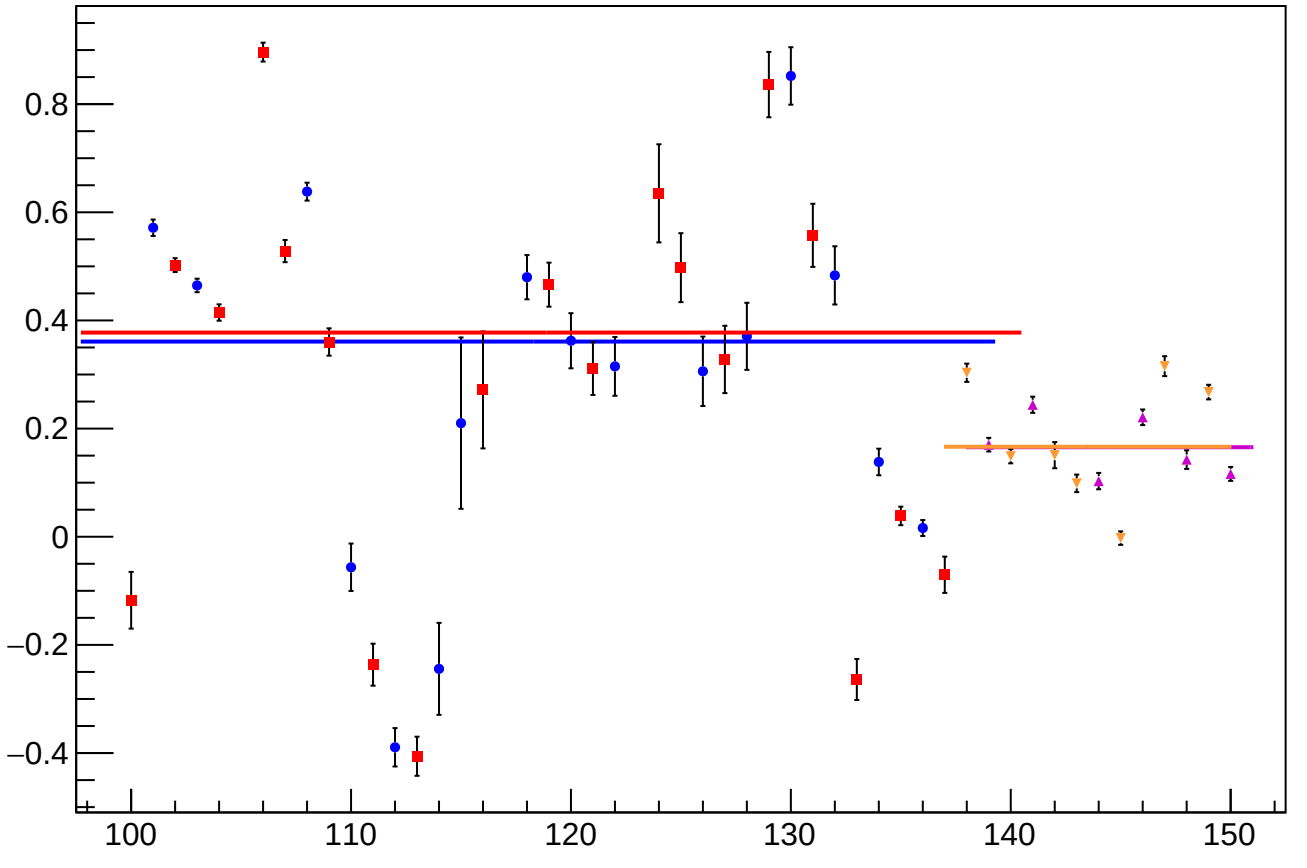
Left: -57.668+/-0.086 $\chi^2$/NDF: 3287.9/12

Right: -50.590+/-0.094 $\chi^2$/NDF: 67702.6/34

In: -54.429+/-0.091 $\chi^2$/NDF:36500.2/21

Out: -54.440+/-0.089 $\chi^2$/NDF:37560.0/25

All: -54.435+/-0.064 $\chi^2$/NDF: 74060.2/47




Right In: 0.361+/-0.006 $\chi^2$/NDF: 1860.0/15

Left Out: 0.166+/-0.006 $\chi^2$/NDF:390.3/6

Right Out: 0.378+/-0.006 $\chi^2$/NDF: 2790.5/18

Left In: 0.166+/-0.006 $\chi^2$/NDF:76.1/5

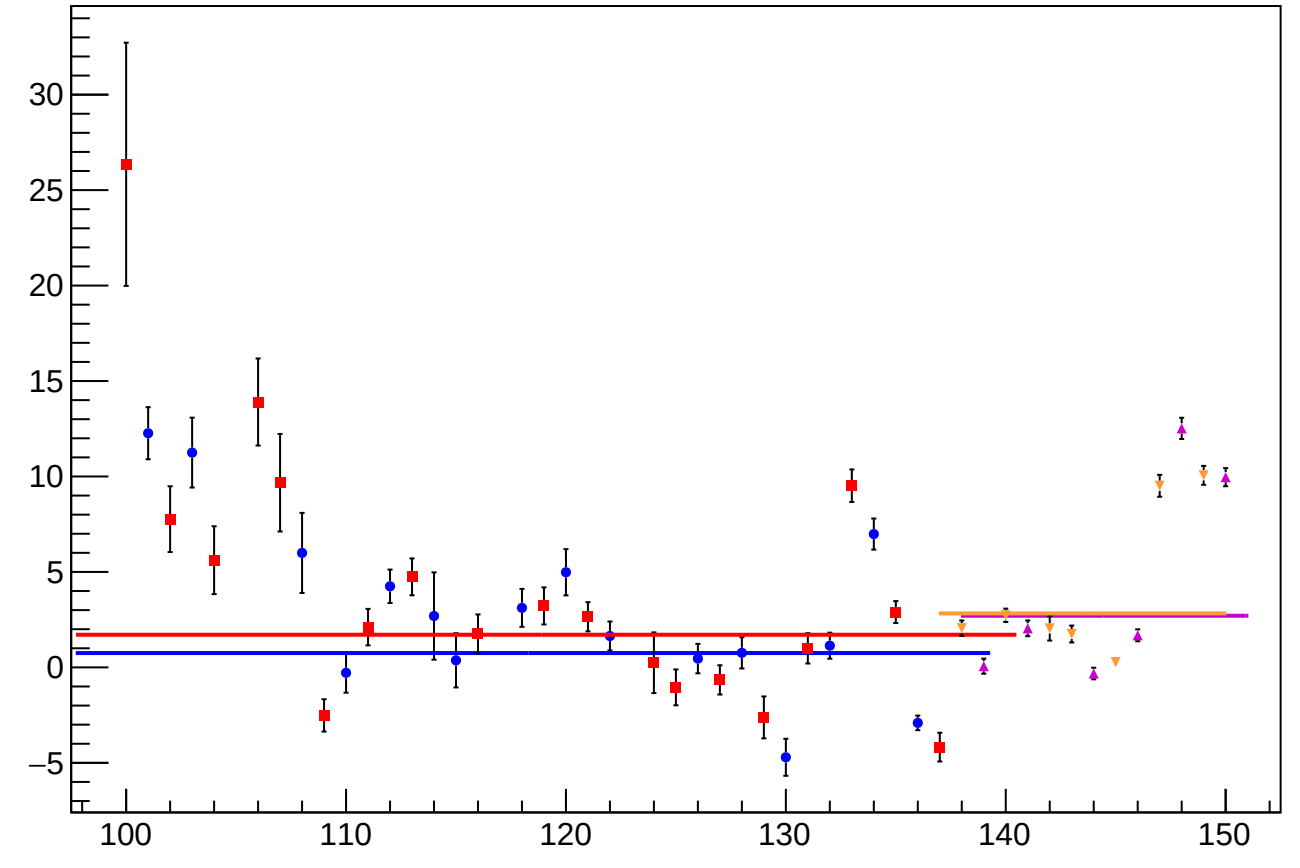
Left: 0.166+/-0.004 $\chi^2$/NDF: 466.4/12

Right: 0.370+/-0.004 $\chi^2$/NDF: 4654.1/34

In: 0.255+/-0.004 $\chi^2$/NDF:2448.0/21

Out: 0.267+/-0.004 $\chi^2$/NDF:3807.2/25

All: 0.261+/-0.003 $\chi^2$/NDF: 6259.1/47




Right In: 0.752+/-0.212 $\chi^2$/NDF: 330.1/15

Left Out: 2.827+/-0.152 $\chi^2$/NDF:454.1/6

Right Out: 1.710+/-0.223 $\chi^2$/NDF: 293.8/18

Left In: 2.705+/-0.156 $\chi^2$/NDF:701.7/5

Left: 2.768+/-0.109 $\chi^2$/NDF: 1156.1/12

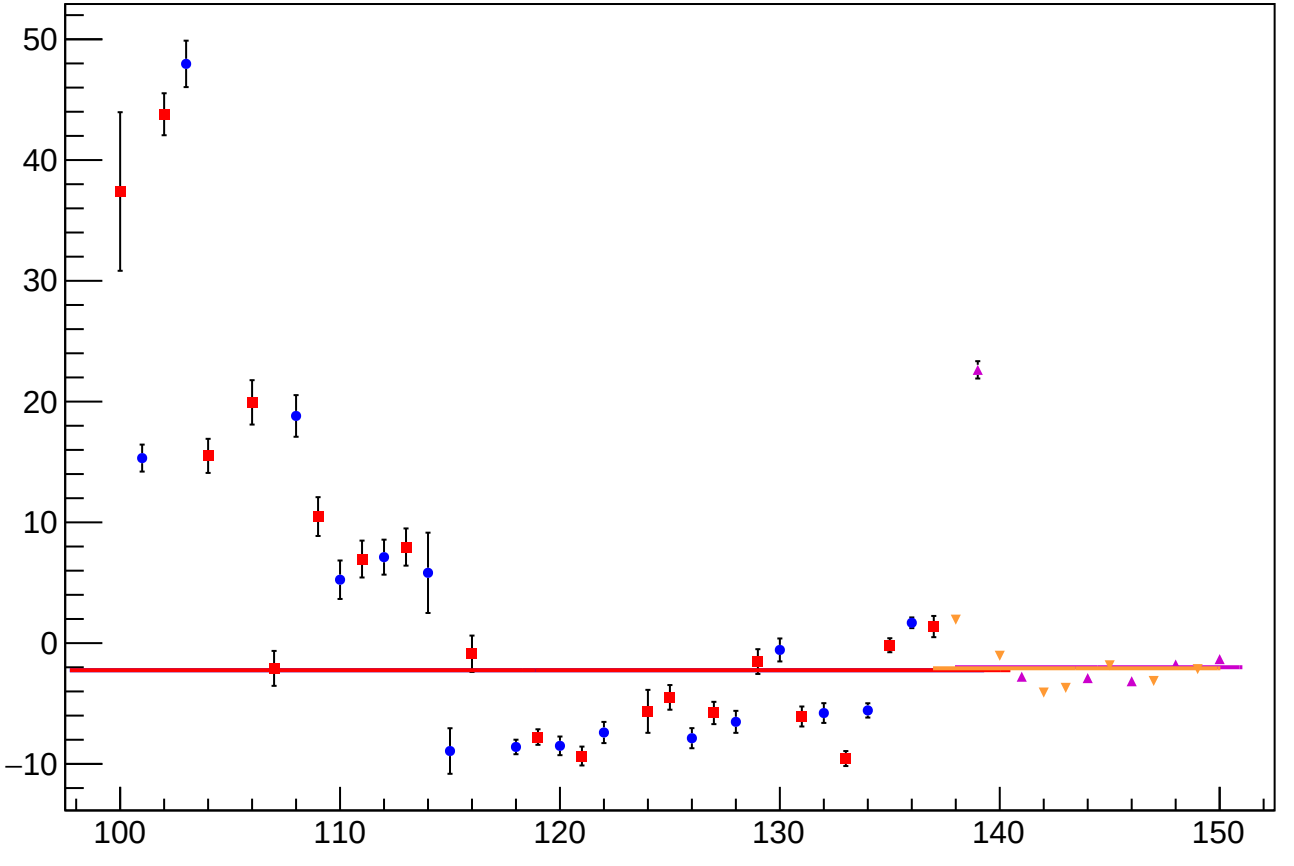
Right: 1.208+/-0.154 $\chi^2$/NDF: 633.6/34

In: 2.019+/-0.126 $\chi^2$/NDF:1086.7/21

Out: 2.473+/-0.125 $\chi^2$/NDF:765.1/25

All: 2.247+/-0.089 $\chi^2$/NDF: 1858.3/47

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.245+/-0.215 $\chi^2$/NDF: 1572.5/15

Left Out: -2.083+/-0.112 $\chi^2$/NDF:182.4/6

Right Out: -2.242+/-0.229 $\chi^2$/NDF: 1555.6/18

Left In: -1.995+/-0.109 $\chi^2$/NDF:1240.3/5

Left: -2.038+/-0.078 $\chi^2$/NDF: 1423.0/12

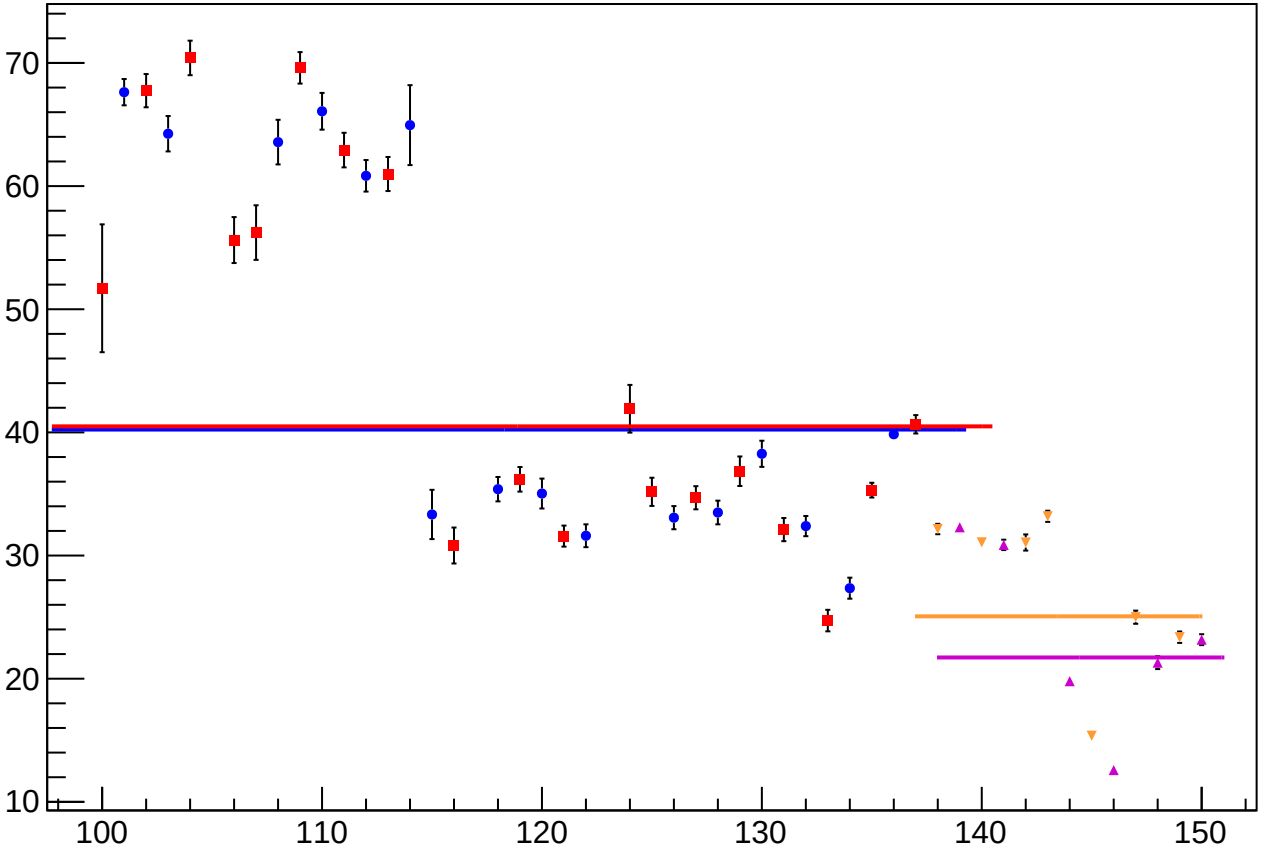
Right: -2.244+/-0.157 $\chi^2$/NDF: 3128.1/34

In: -2.046+/-0.097 $\chi^2$/NDF:2813.9/21

Out: -2.113+/-0.101 $\chi^2$/NDF:1738.4/25

All: -2.079+/-0.070 $\chi^2$/NDF: 4552.5/47

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 40.232+/-0.231 $\chi^2$/NDF: 2291.1/15

Left Out: 25.063+/-0.154 $\chi^2$/NDF:2250.4/6

Right Out: 40.490+/-0.250 $\chi^2$/NDF: 2698.0/18

Left In: 21.724+/-0.155 $\chi^2$/NDF:2099.1/5

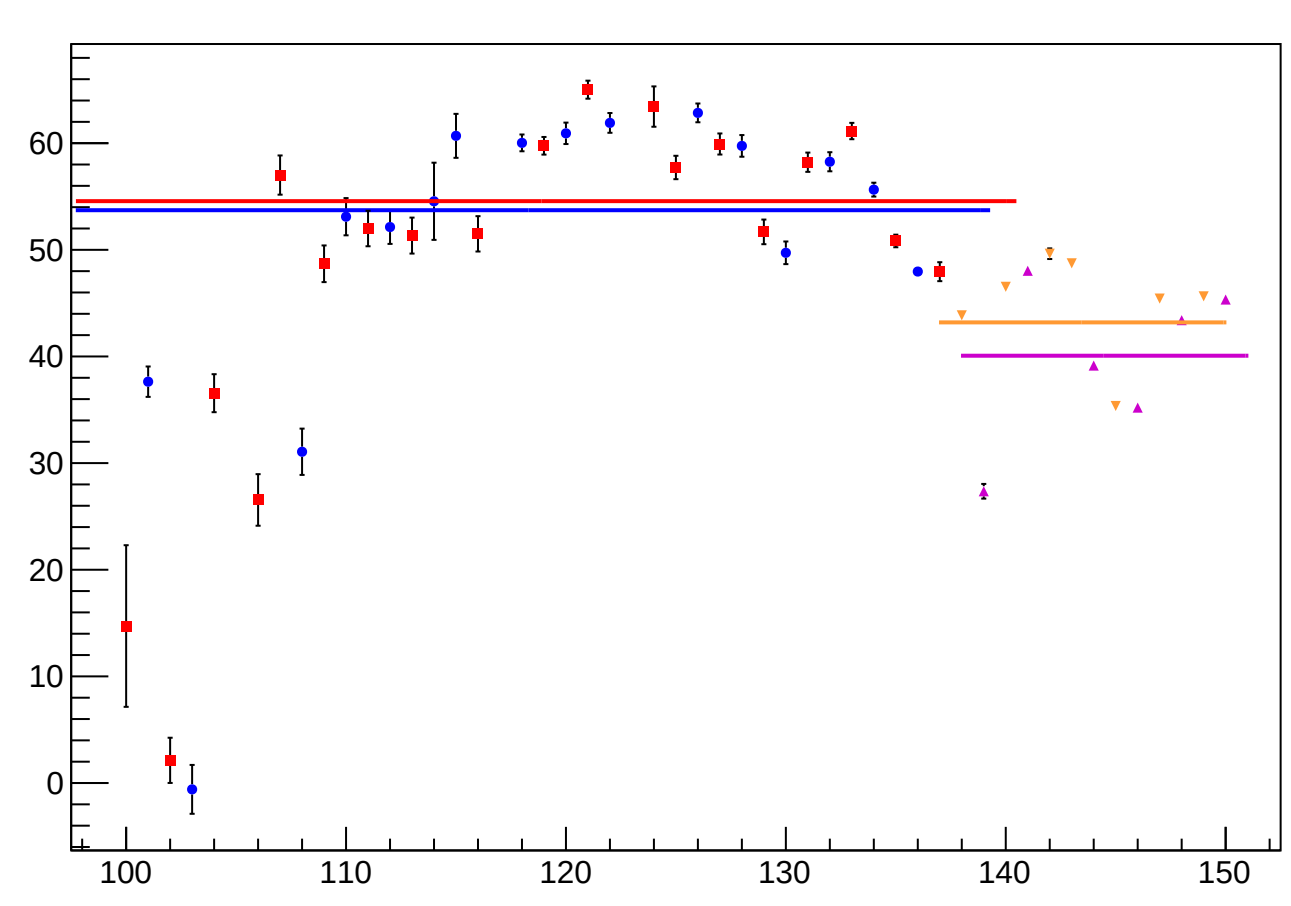
Left: 23.409+/-0.109 $\chi^2$/NDF: 4582.6/12

Right: 40.351+/-0.170 $\chi^2$/NDF: 4989.7/34

In: 27.474+/-0.129 $\chi^2$/NDF:8798.6/21

Out: 29.293+/-0.131 $\chi^2$/NDF:7702.5/25

All: 28.369+/-0.092 $\chi^2$/NDF: 16598.9/47




Right In: 53.715+/-0.239 $\chi^2$/NDF: 1362.7/15

Left Out: 43.195+/-0.135 $\chi^2$/NDF:1565.6/6

Right Out: 54.565+/-0.256 $\chi^2$/NDF: 1342.6/18

Left In: 40.070+/-0.133 $\chi^2$/NDF:1555.6/5

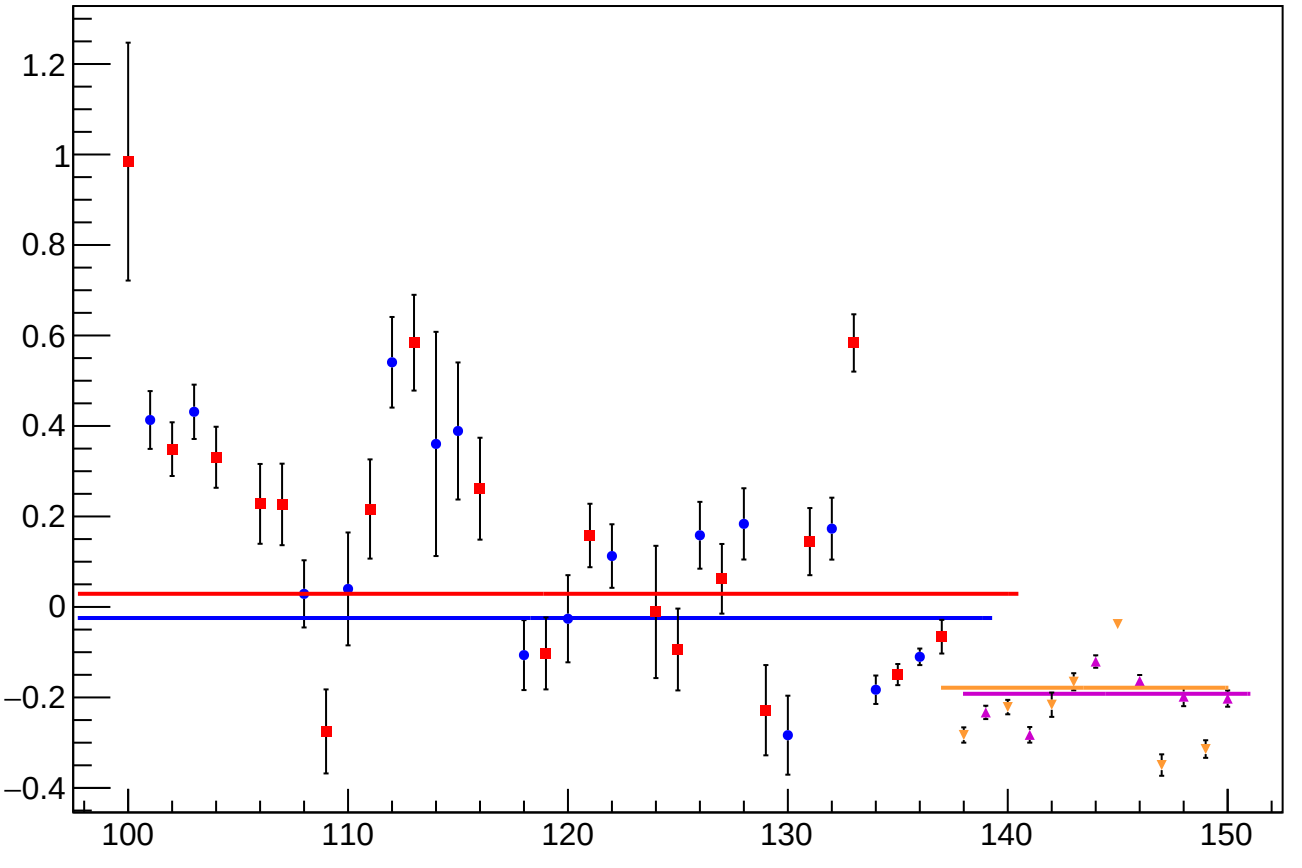
Left: 41.609+/-0.095 $\chi^2$/NDF: 3394.1/12

Right: 54.111+/-0.175 $\chi^2$/NDF: 2711.2/34

In: 43.288+/-0.116 $\chi^2$/NDF:5409.0/21

Out: 45.660+/-0.119 $\chi^2$/NDF:4451.5/25

All: 44.442+/-0.083 $\chi^2$/NDF: 10063.7/47




Right In: -0.024+/-0.013 $\chi^2$/NDF: 229.7/15

Left Out: -0.179+/-0.006 $\chi^2$/NDF:318.5/6

Right Out: 0.029+/-0.014 $\chi^2$/NDF: 276.4/18

Left In: -0.192+/-0.006 $\chi^2$/NDF:67.3/5

Left: -0.185+/-0.005 $\chi^2$/NDF: 388.0/12

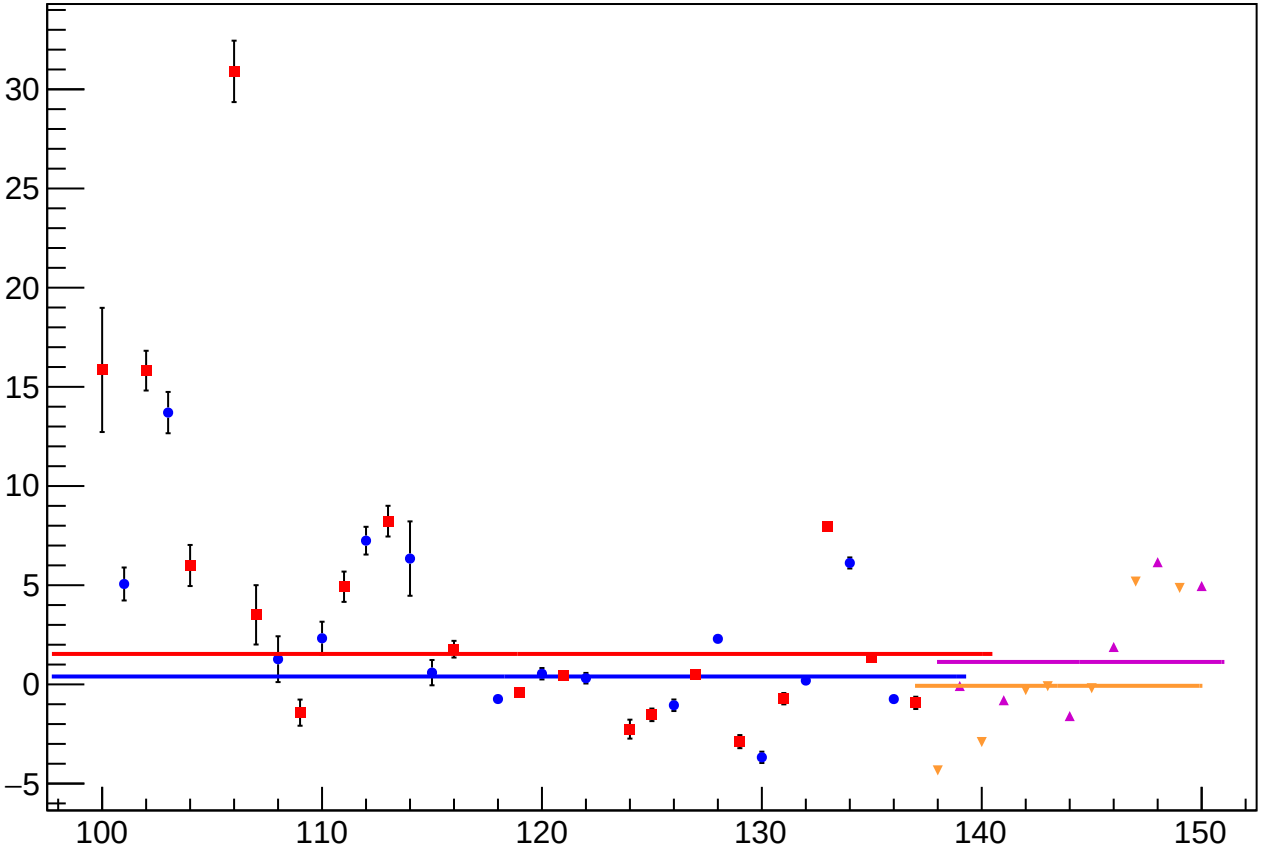
Right: -0.001+/-0.010 $\chi^2$/NDF: 513.9/34

In: -0.158+/-0.006 $\chi^2$/NDF:433.8/21

Out: -0.144+/-0.006 $\chi^2$/NDF:771.9/25

All: -0.151+/-0.004 $\chi^2$/NDF: 1208.8/47

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 0.398+/-0.077 $\chi^2$/NDF: 1097.4/15

Left Out: -0.071+/-0.055 $\chi^2$/NDF:2968.9/6

Right Out: 1.536+/-0.078 $\chi^2$/NDF: 2411.2/18

Left In: 1.132+/-0.055 $\chi^2$/NDF:2258.9/5

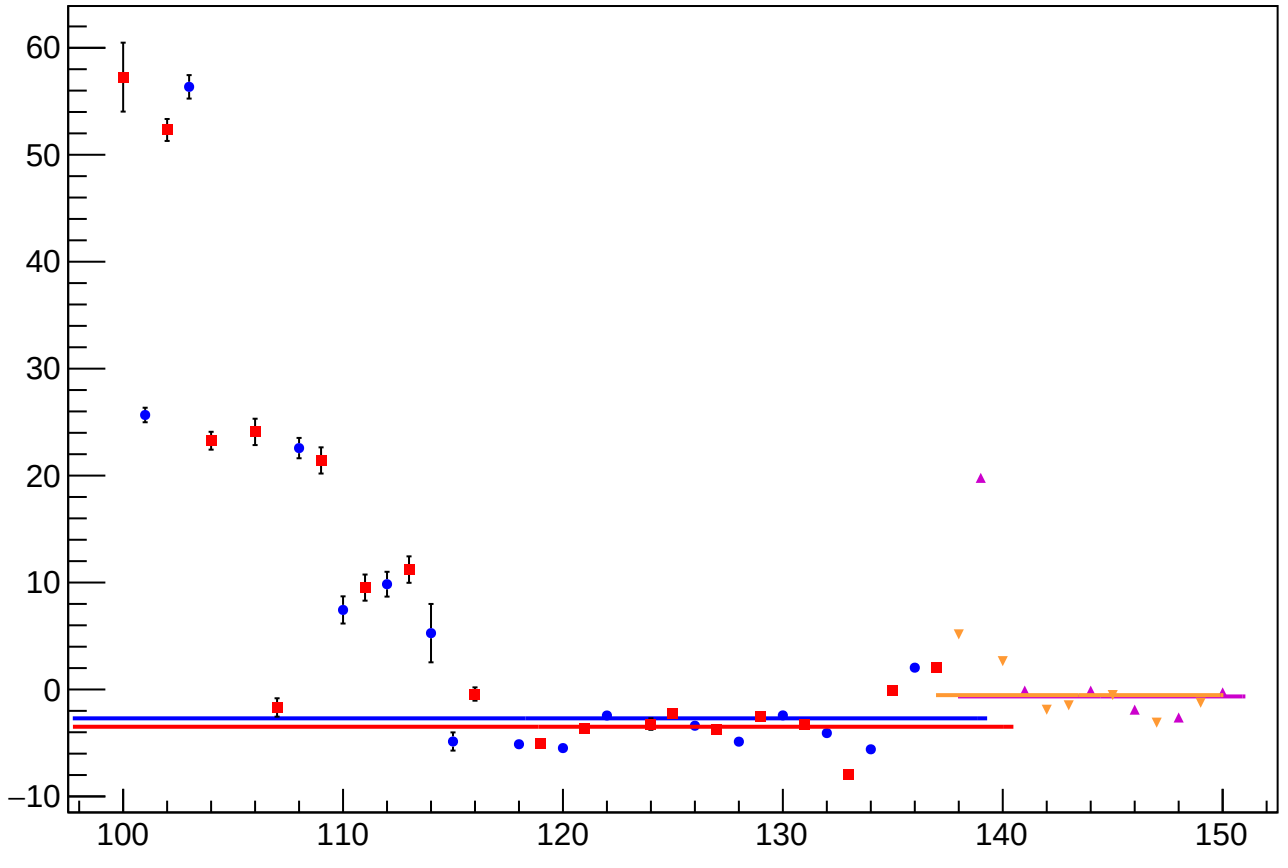
Left: 0.531+/-0.039 $\chi^2$/NDF: 5469.7/12

Right: 0.959+/-0.055 $\chi^2$/NDF: 3615.8/34

In: 0.886+/-0.045 $\chi^2$/NDF:3416.6/21

Out: 0.457+/-0.045 $\chi^2$/NDF:5663.6/25

All: 0.673+/-0.032 $\chi^2$/NDF: 9126.2/47




Right In: -2.699+/-0.071 $\chi^2$/NDF: 7103.8/15

Left Out: -0.529+/-0.040 $\chi^2$/NDF:3046.5/6

Right Out: -3.486+/-0.071 $\chi^2$/NDF: 7159.9/18

Left In: -0.650+/-0.038 $\chi^2$/NDF:7304.6/5

Left: -0.592+/-0.028 $\chi^2$/NDF: 10355.9/12

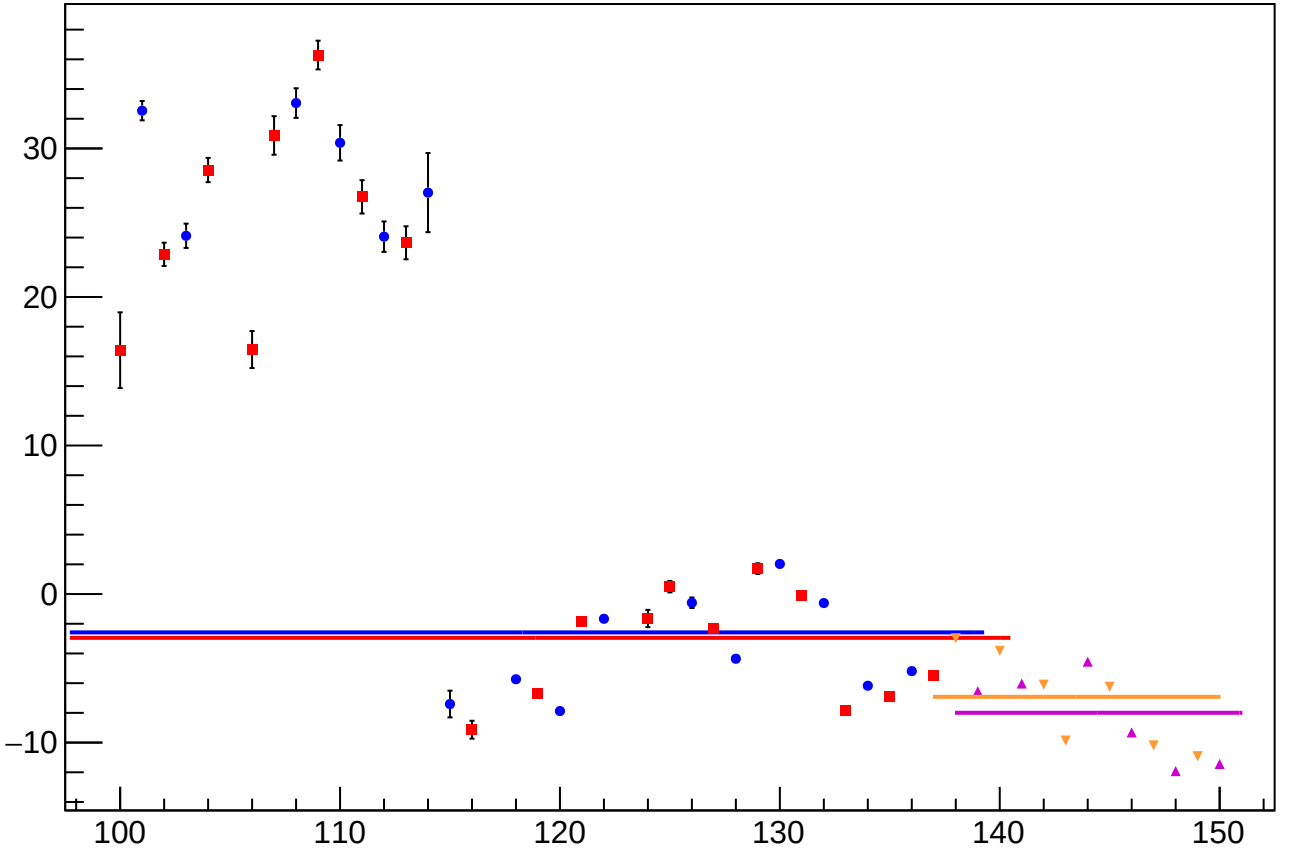
Right: -3.091+/-0.050 $\chi^2$/NDF: 14325.4/34

In: -1.117+/-0.034 $\chi^2$/NDF:15056.2/21

Out: -1.243+/-0.035 $\chi^2$/NDF:11526.8/25

All: -1.178+/-0.024 $\chi^2$/NDF: 26589.8/47

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -2.582+/-0.083 $\chi^2$/NDF: 8159.7/15

Left Out: -6.919+/-0.055 $\chi^2$/NDF:2601.3/6

Right Out: -2.948+/-0.085 $\chi^2$/NDF: 8196.4/18

Left In: -7.993+/-0.054 $\chi^2$/NDF:2432.5/5

Left: -7.465+/-0.039 $\chi^2$/NDF: 5226.4/12

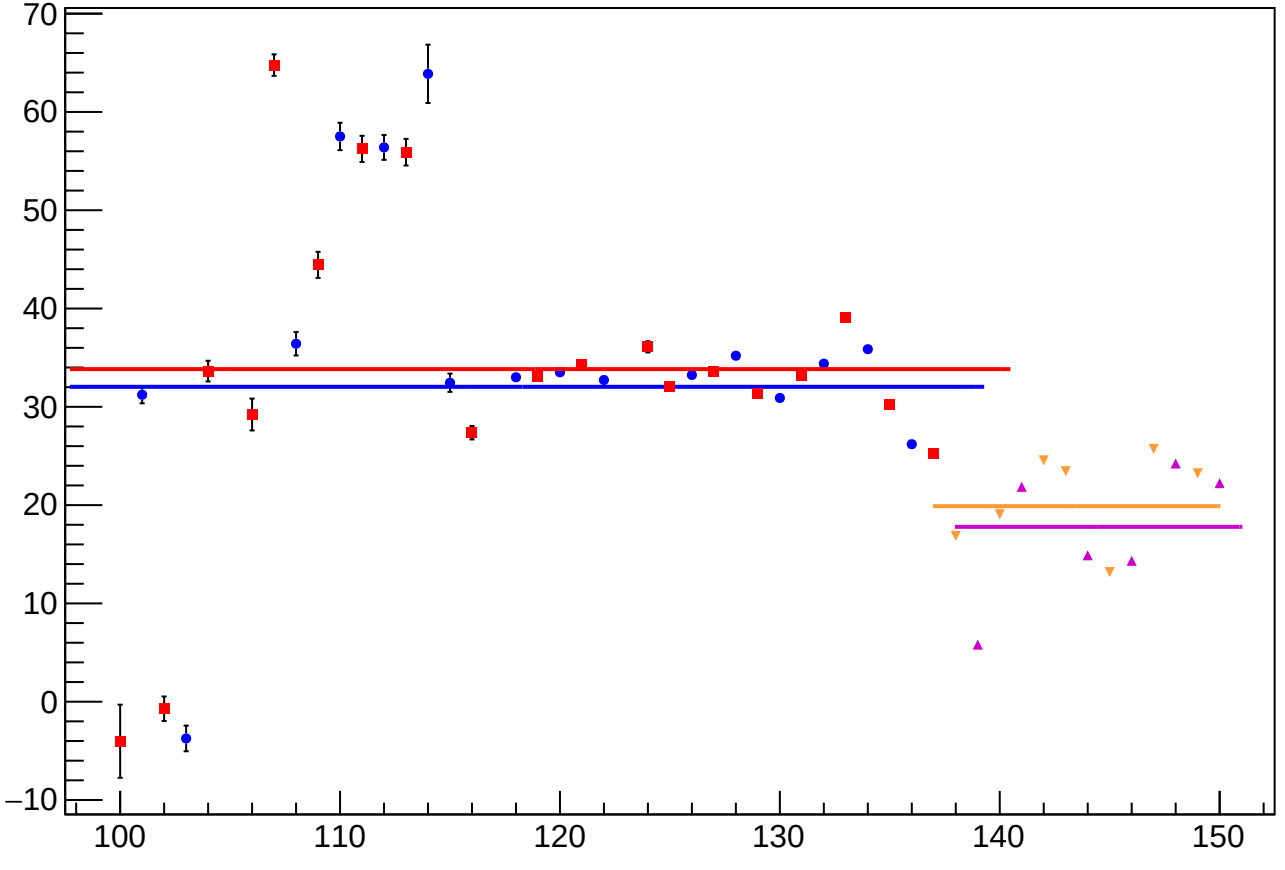
Right: -2.761+/-0.059 $\chi^2$/NDF: 16365.7/34

In: -6.376+/-0.045 $\chi^2$/NDF:13566.5/21

Out: -5.742+/-0.046 $\chi^2$/NDF:12335.3/25

All: -6.065+/-0.032 $\chi^2$/NDF: 25997.6/47

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 32.038+/-0.081 $\chi^2$/NDF: 3255.9/15

Left Out: 19.891+/-0.048 $\chi^2$/NDF:9899.2/6

Right Out: 33.837+/-0.082 $\chi^2$/NDF: 4237.8/18

Left In: 17.789+/-0.047 $\chi^2$/NDF:10020.1/5

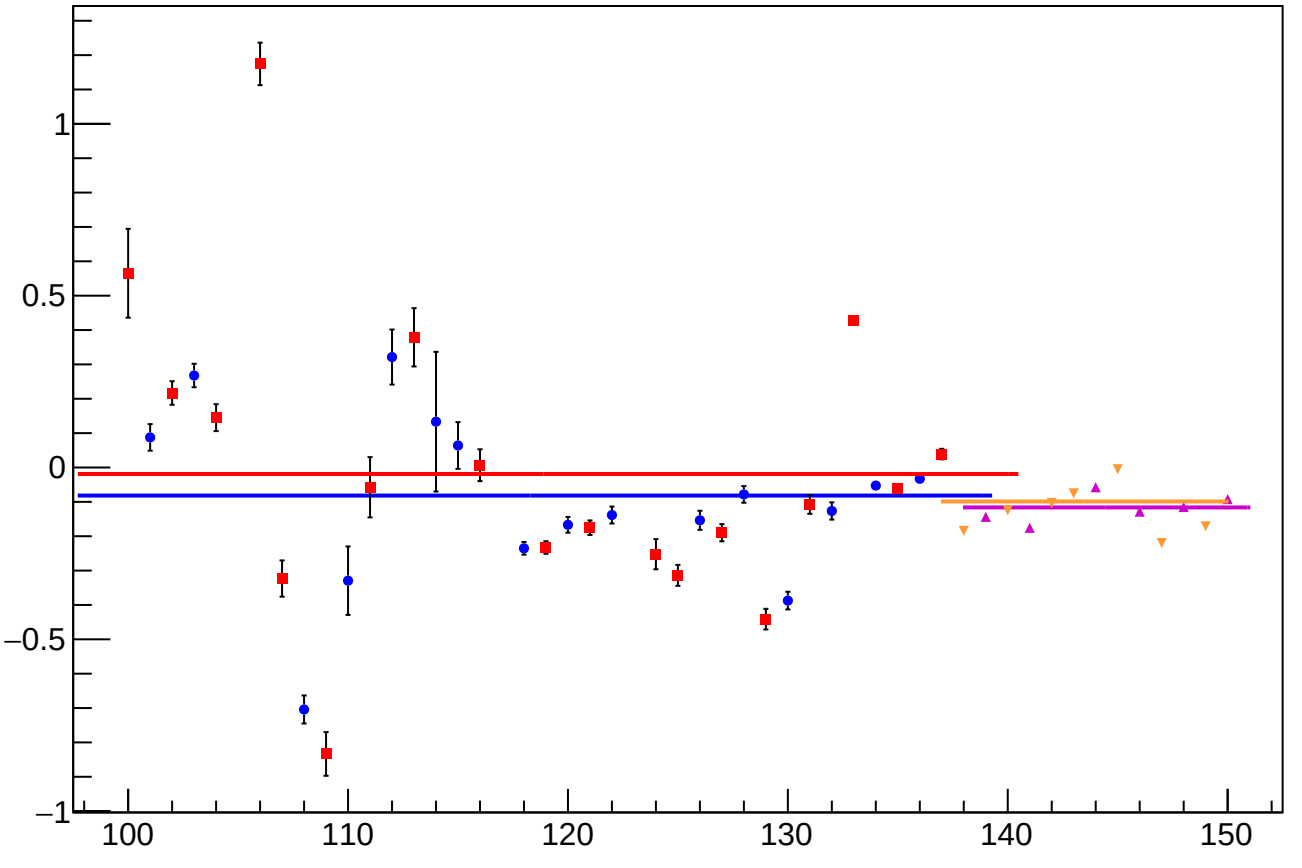
Left: 18.804+/-0.033 $\chi^2$/NDF: 20905.5/12

Right: 32.934+/-0.058 $\chi^2$/NDF: 7737.6/34

In: 21.303+/-0.040 $\chi^2$/NDF:36425.1/21

Out: 23.492+/-0.041 $\chi^2$/NDF:35794.4/25

All: 22.368+/-0.029 $\chi^2$/NDF: 73650.5/47




Right In: -0.082+/-0.005 $\chi^2$/NDF: 689.2/15

Left Out: -0.099+/-0.002 $\chi^2$/NDF:1114.9/6

Right Out: -0.019+/-0.005 $\chi^2$/NDF: 2273.7/18

Left In: -0.116+/-0.002 $\chi^2$/NDF:284.4/5

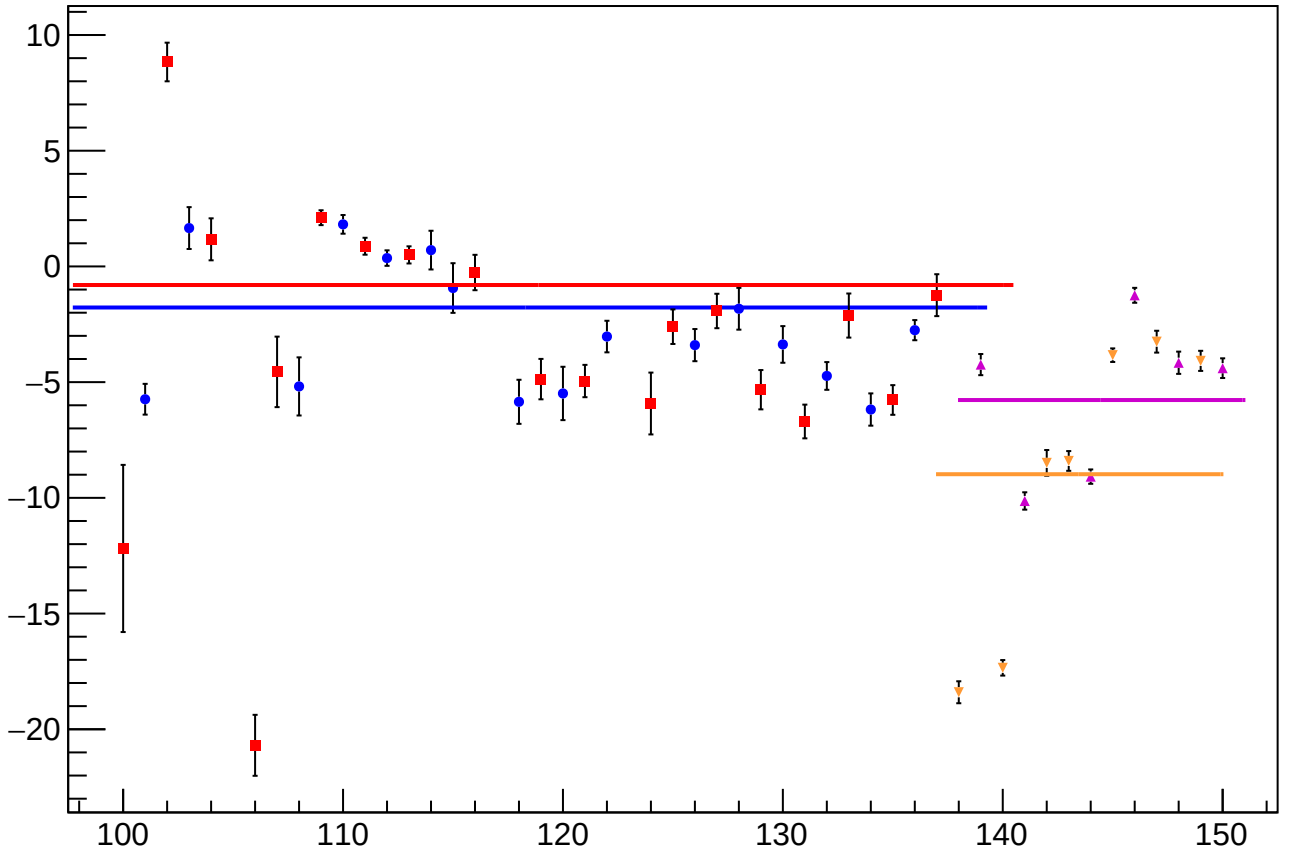
Left: -0.108+/-0.002 $\chi^2$/NDF: 1428.8/12

Right: -0.053+/-0.004 $\chi^2$/NDF: 3041.0/34

In: -0.110+/-0.002 $\chi^2$/NDF:1015.8/21

Out: -0.086+/-0.002 $\chi^2$/NDF:3586.6/25

All: -0.098+/-0.001 $\chi^2$/NDF: 4671.2/47




Right In: -1.775+/-0.157 $\chi^2$/NDF: 297.7/15

Left Out: -8.979+/-0.152 $\chi^2$/NDF:1600.8/6

Right Out: -0.803+/-0.148 $\chi^2$/NDF: 733.7/18

Left In: -5.773+/-0.155 $\chi^2$/NDF:478.7/5

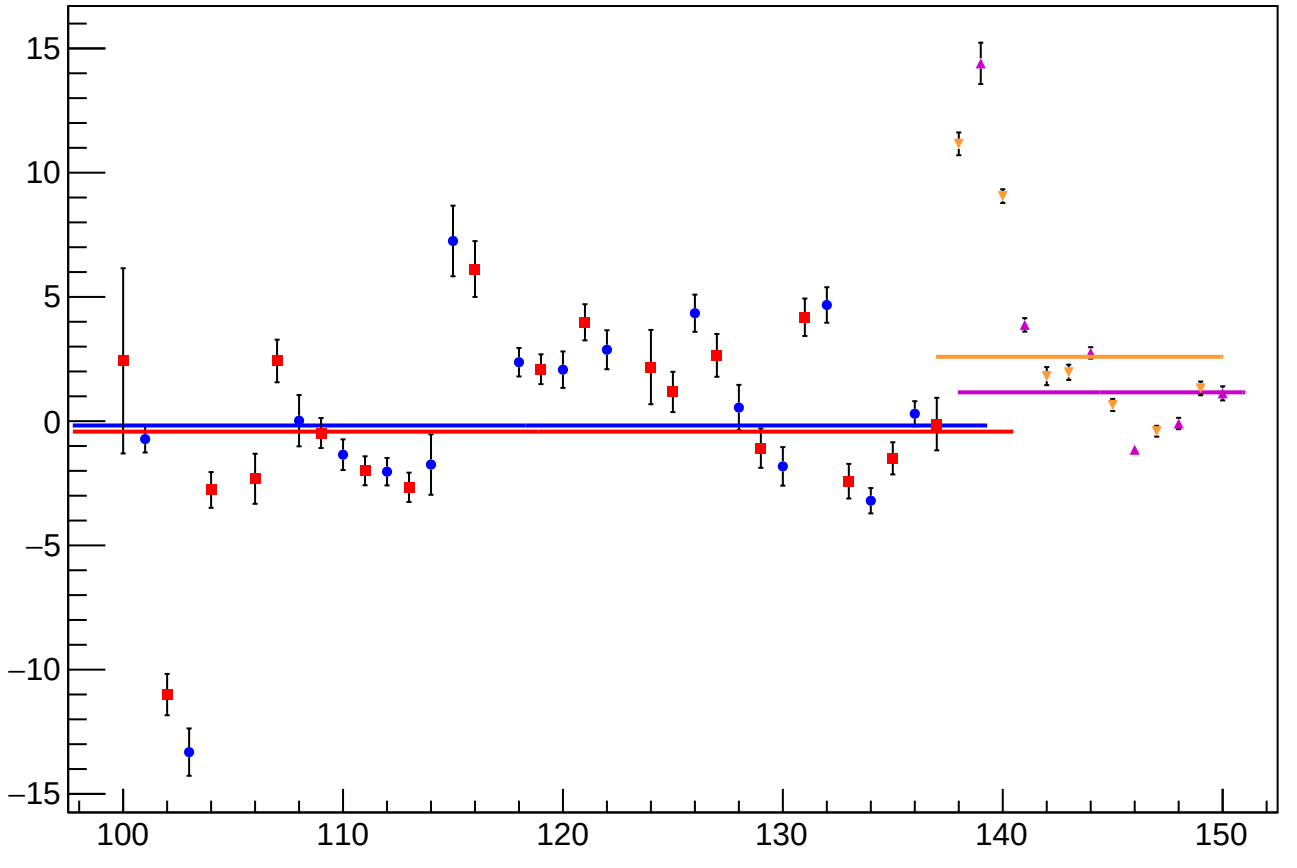
Left: -7.409+/-0.108 $\chi^2$/NDF: 2298.4/12

Right: -1.261+/-0.108 $\chi^2$/NDF: 1051.6/34

In: -3.804+/-0.110 $\chi^2$/NDF:1105.1/21

Out: -4.800+/-0.106 $\chi^2$/NDF:3819.9/25

All: -4.322+/-0.076 $\chi^2$/NDF: 4967.4/47




Right In: -0.174+/-0.173 $\chi^2$/NDF: 403.1/15

Left Out: 2.591+/-0.107 $\chi^2$/NDF:1177.1/6

Right Out: -0.421+/-0.177 $\chi^2$/NDF: 366.3/18

Left In: 1.160+/-0.104 $\chi^2$/NDF:571.2/5

Left: 1.856+/-0.075 $\chi^2$/NDF: 1839.8/12

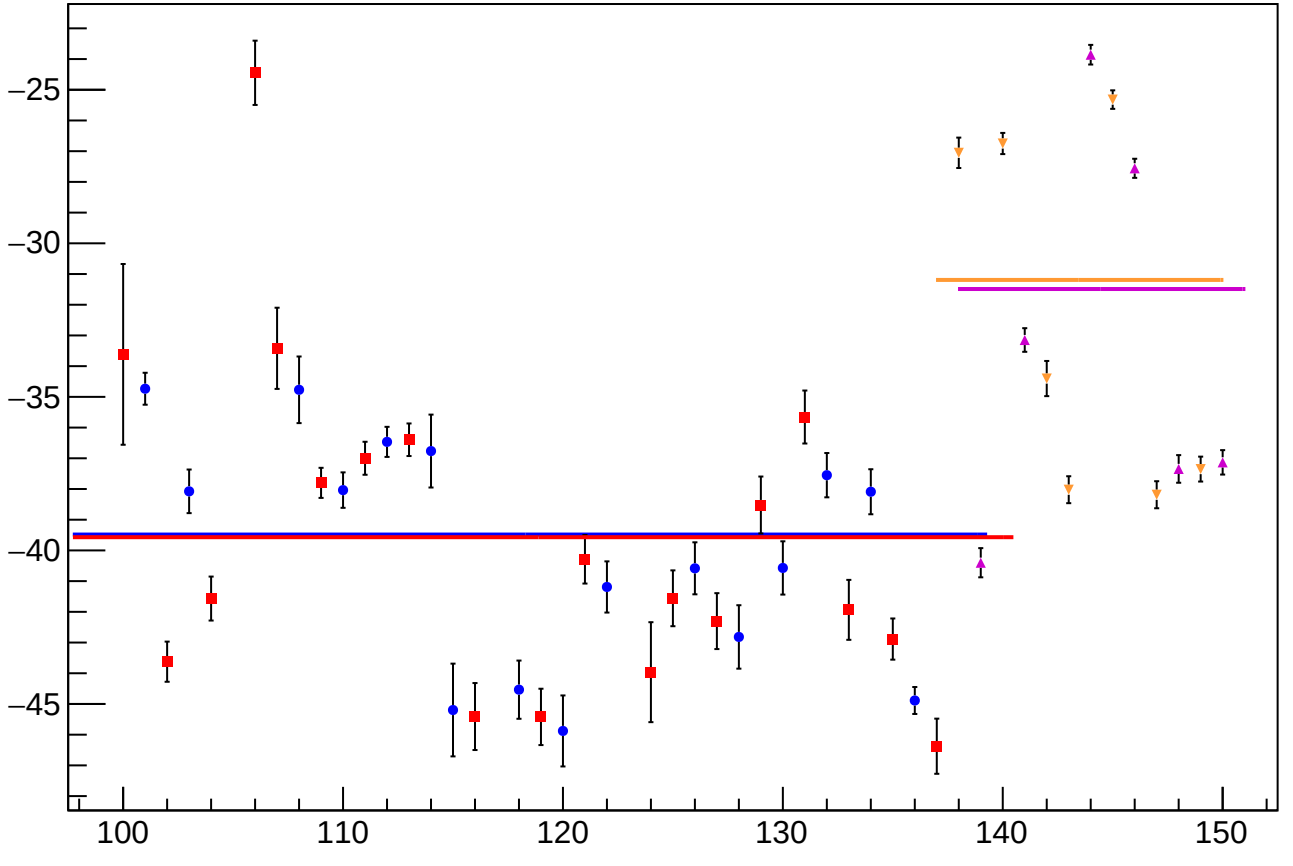
Right: -0.295+/-0.124 $\chi^2$/NDF: 770.4/34

In: 0.804+/-0.089 $\chi^2$/NDF:1017.9/21

Out: 1.784+/-0.092 $\chi^2$/NDF:1754.9/25

All: 1.282+/-0.064 $\chi^2$/NDF: 2831.4/47

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -39.484+/-0.180 $\chi^2$/NDF: 409.3/15

Left Out: -31.192+/-0.153 $\chi^2$/NDF:1372.2/6

Right Out: -39.570+/-0.181 $\chi^2$/NDF: 553.5/18

Left In: -31.488+/-0.153 $\chi^2$/NDF:1470.3/5

Left: -31.339+/-0.108 $\chi^2$/NDF: 2844.4/12

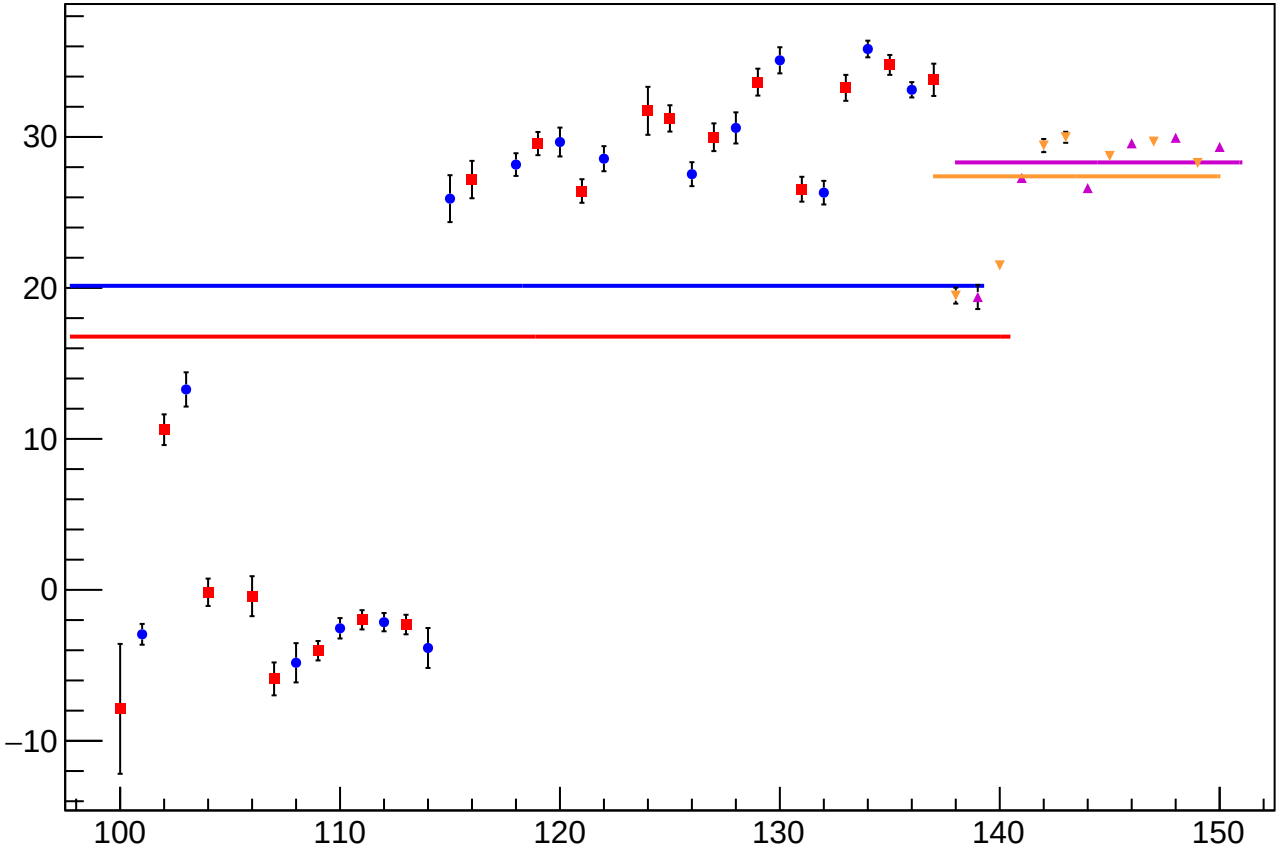
Right: -39.526+/-0.128 $\chi^2$/NDF: 962.9/34

In: -34.843+/-0.117 $\chi^2$/NDF:3021.9/21

Out: -34.672+/-0.117 $\chi^2$/NDF:3178.5/25

All: -34.757+/-0.083 $\chi^2$/NDF: 6201.4/47

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 20.140+/-0.195 $\chi^2$/NDF: 6684.6/15

Left Out: 27.393+/-0.131 $\chi^2$/NDF:700.3/6

Right Out: 16.775+/-0.200 $\chi^2$/NDF: 6739.1/18

Left In: 28.315+/-0.128 $\chi^2$/NDF:237.8/5

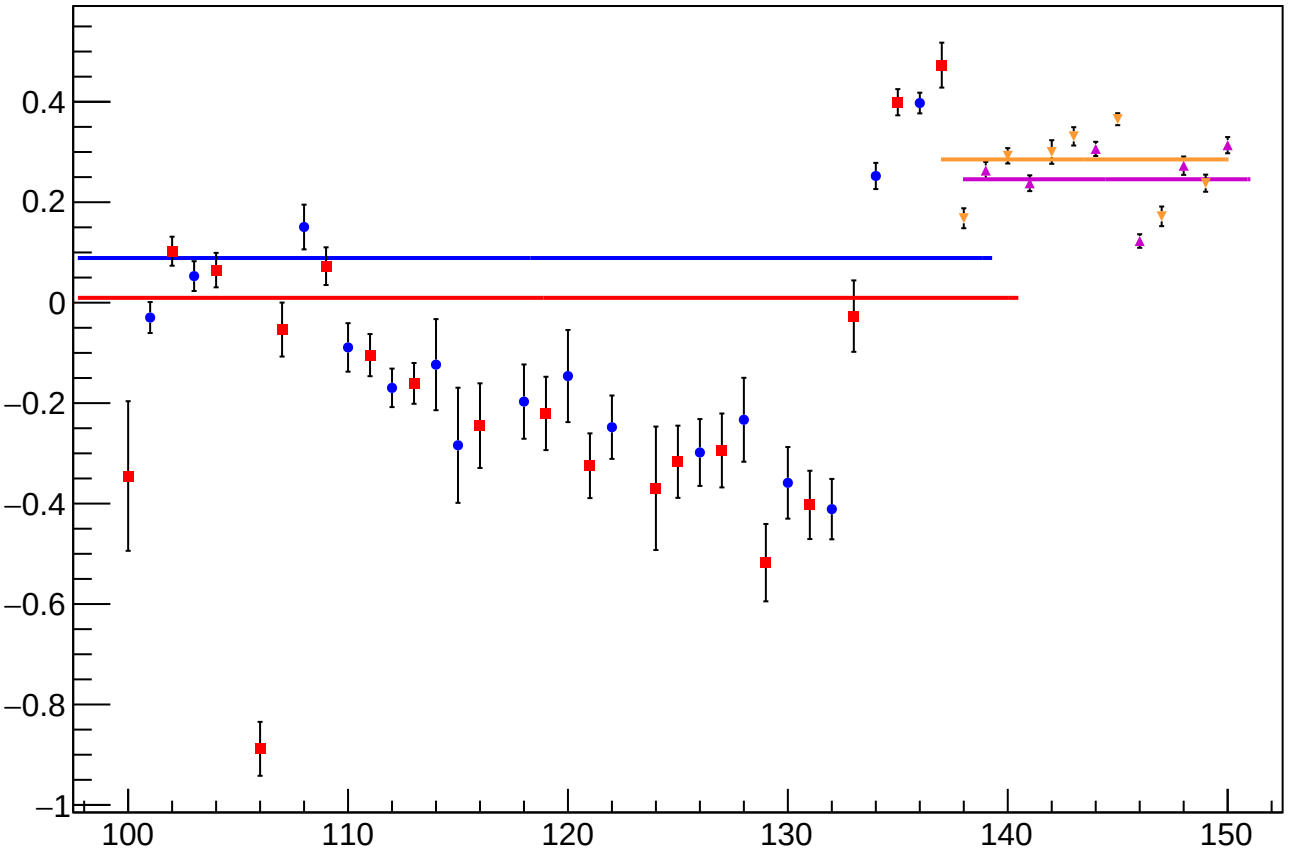
Left: 27.863+/-0.091 $\chi^2$/NDF: 963.5/12

Right: 18.500+/-0.139 $\chi^2$/NDF: 13569.2/34

In: 25.851+/-0.107 $\chi^2$/NDF:8153.7/21

Out: 24.216+/-0.109 $\chi^2$/NDF:9420.3/25

All: 25.051+/-0.076 $\chi^2$/NDF: 17688.4/47




Right In: 0.089+/-0.010 $\chi^2$/NDF: 563.9/15

Left Out: 0.285+/-0.006 $\chi^2$/NDF:128.0/6

Right Out: 0.010+/-0.011 $\chi^2$/NDF: 834.8/18

Left In: 0.246+/-0.006 $\chi^2$/NDF:122.2/5

Left: 0.265+/-0.004 $\chi^2$/NDF: 269.5/12

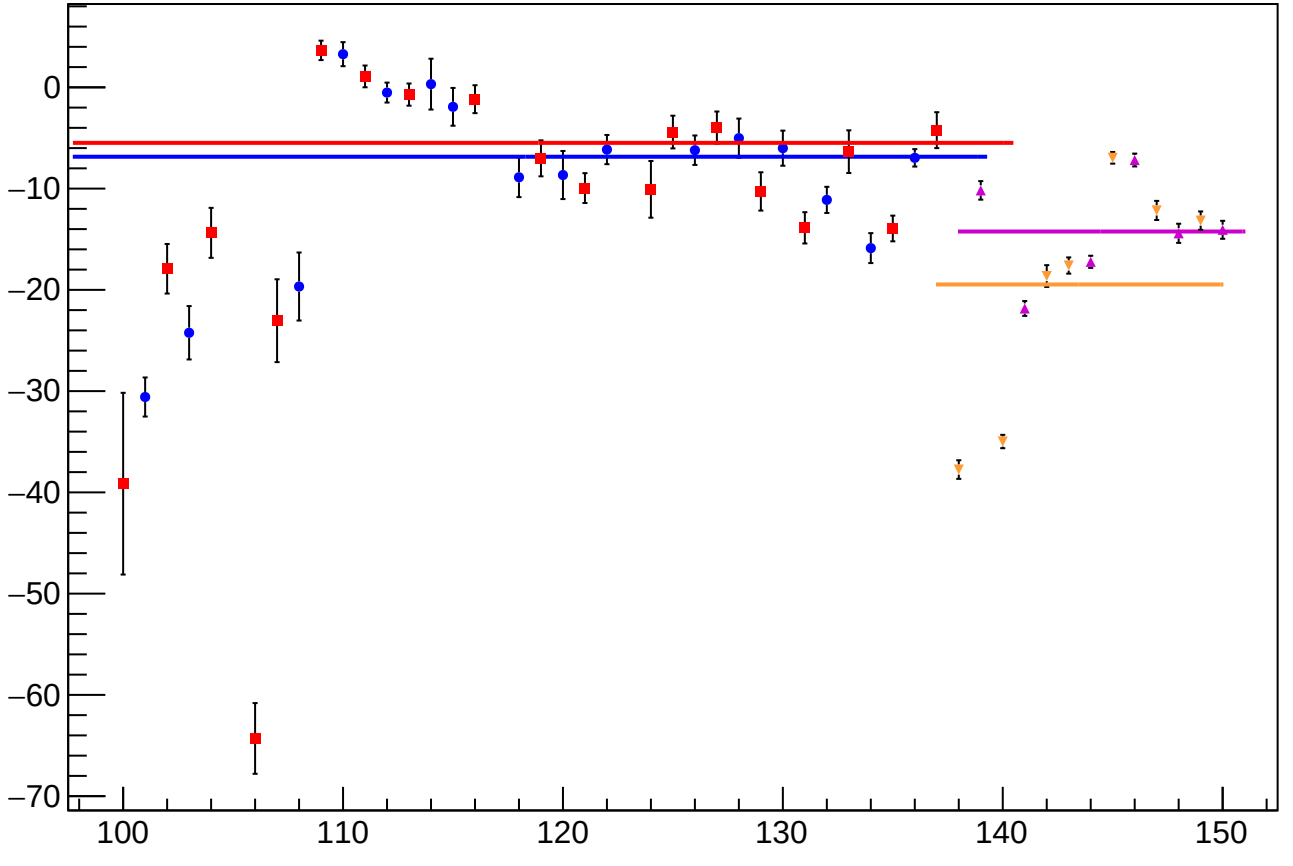
Right: 0.052+/-0.008 $\chi^2$/NDF: 1426.1/34

In: 0.203+/-0.005 $\chi^2$/NDF:851.3/21

Out: 0.216+/-0.006 $\chi^2$/NDF:1431.9/25

All: 0.210+/-0.004 $\chi^2$/NDF: 2286.1/47

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -6.853+/-0.376 $\chi^2$/NDF: 390.1/15

Left Out: -19.469+/-0.298 $\chi^2$/NDF:1532.3/6

Right Out: -5.483+/-0.369 $\chi^2$/NDF: 606.5/18

Left In: -14.237+/-0.306 $\chi^2$/NDF:275.3/5

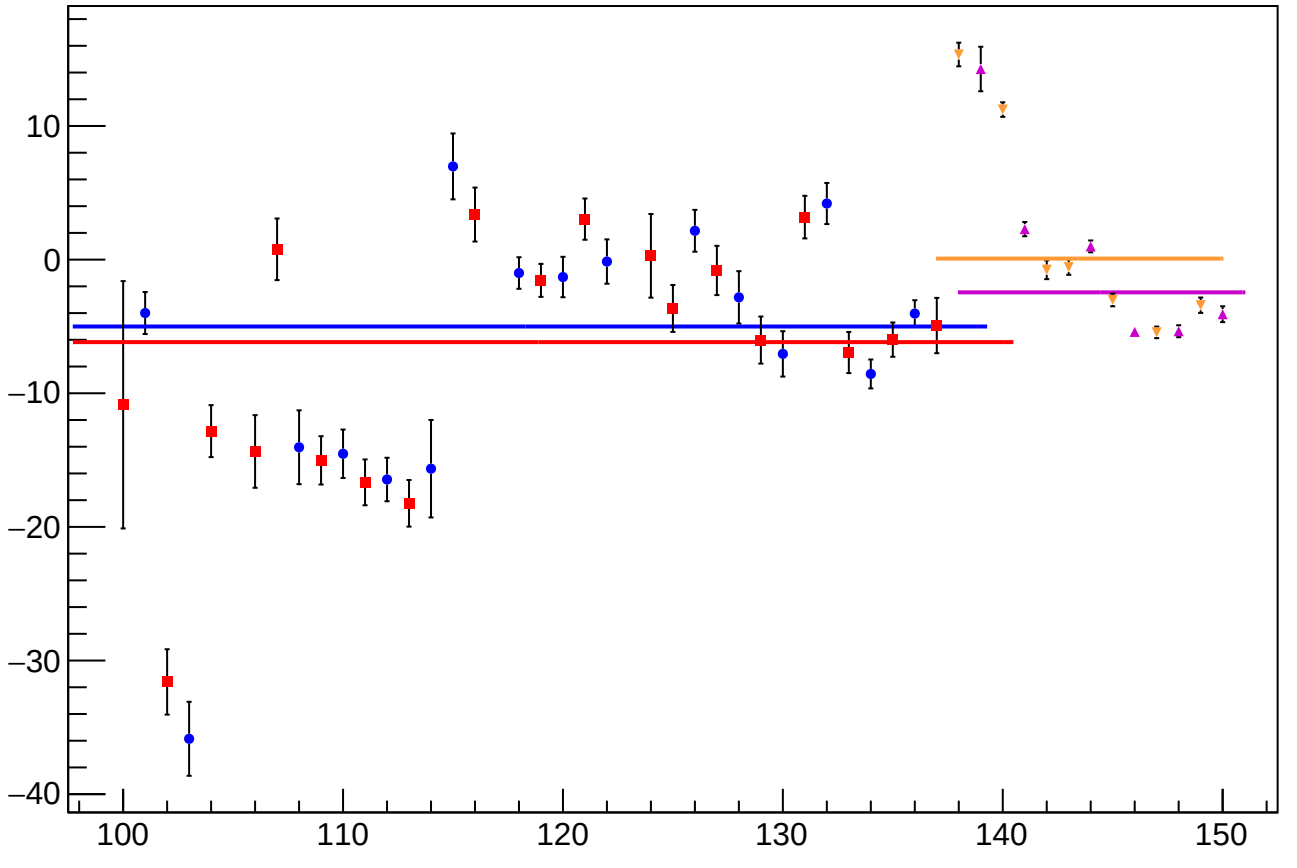
Left: -16.919+/-0.214 $\chi^2$/NDF: 1957.5/12

Right: -6.155+/-0.263 $\chi^2$/NDF: 1003.4/34

In: -11.292+/-0.237 $\chi^2$/NDF:897.7/21

Out: -13.943+/-0.232 $\chi^2$/NDF:3007.8/25

All: -12.647+/-0.166 $\chi^2$/NDF: 3969.4/47




Right In: -5.005+/-0.395 $\chi^2$/NDF: 341.7/15

Left Out: 0.078+/-0.211 $\chi^2$/NDF:961.2/6

Right Out: -6.173+/-0.417 $\chi^2$/NDF: 369.1/18

Left In: -2.449+/-0.205 $\chi^2$/NDF:351.3/5

Left: -1.225+/-0.147 $\chi^2$/NDF: 1386.3/12

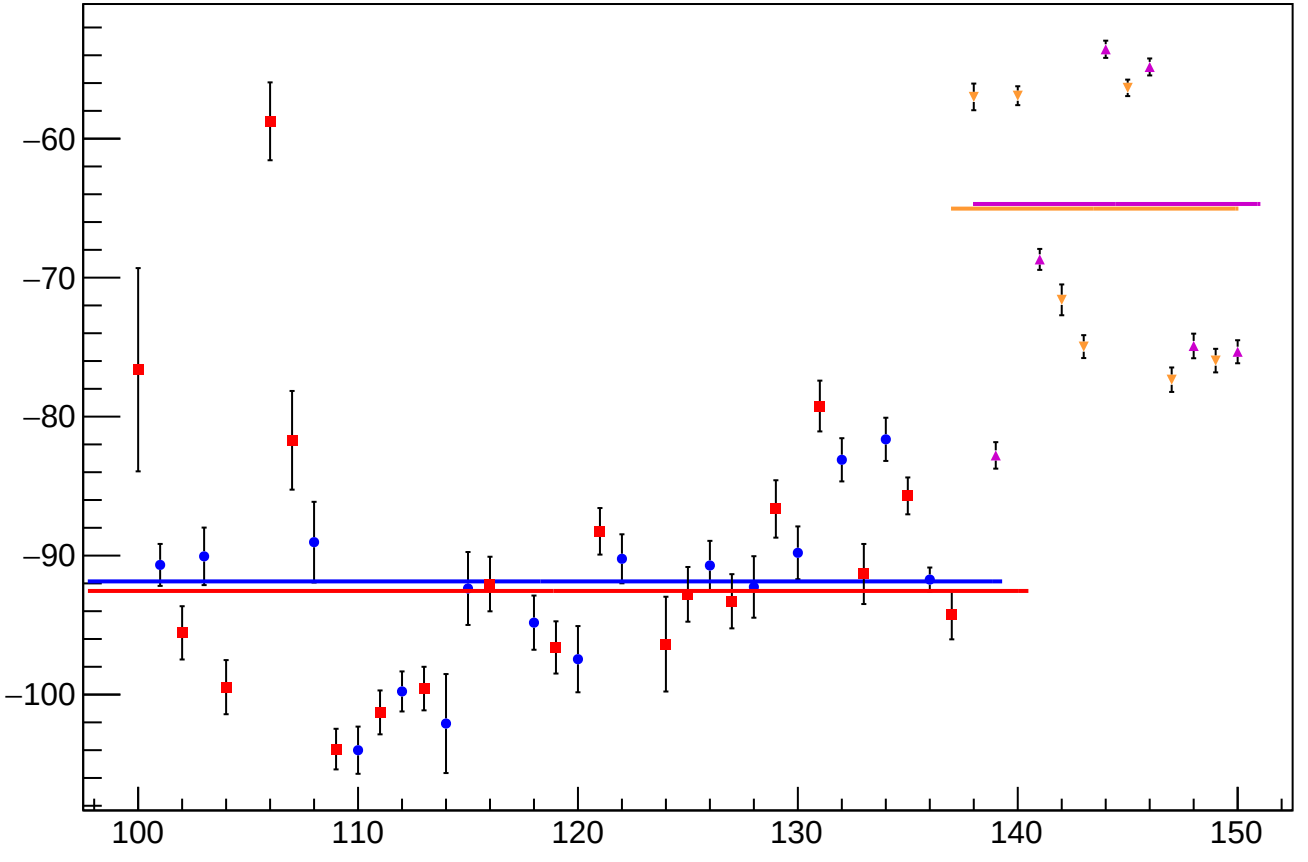
Right: -5.558+/-0.287 $\chi^2$/NDF: 715.0/34

In: -2.989+/-0.182 $\chi^2$/NDF:726.0/21

Out: -1.200+/-0.188 $\chi^2$/NDF:1509.5/25

All: -2.126+/-0.131 $\chi^2$/NDF: 2282.2/47

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -91.856+/-0.424 $\chi^2$/NDF: 177.3/15

Left Out: -65.033+/-0.301 $\chi^2$/NDF:970.4/6

Right Out: -92.544+/-0.439 $\chi^2$/NDF: 387.8/18

Left In: -64.699+/-0.303 $\chi^2$/NDF:1269.7/5

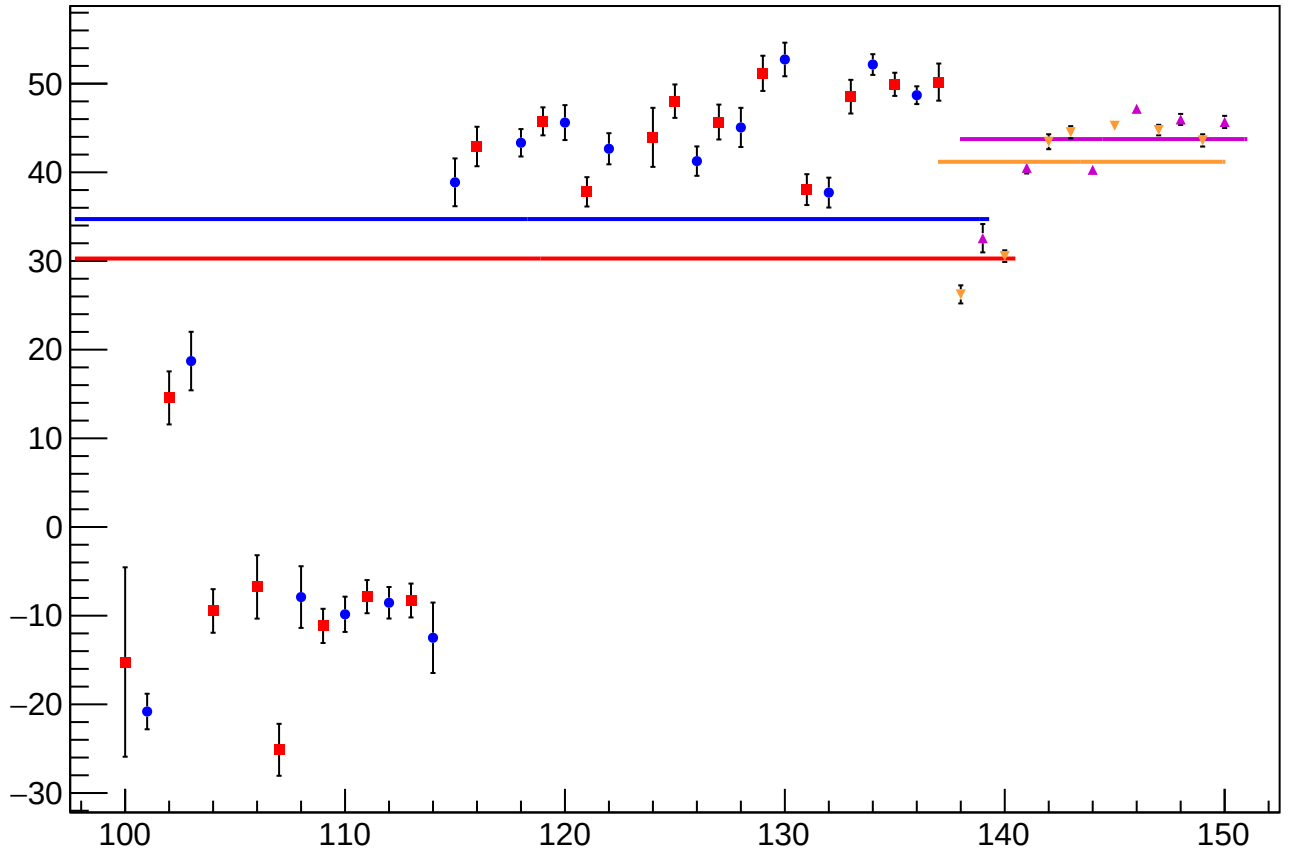
Left: -64.867+/-0.213 $\chi^2$/NDF: 2240.7/12

Right: -92.188+/-0.305 $\chi^2$/NDF: 566.3/34

In: -73.885+/-0.247 $\chi^2$/NDF:4161.1/21

Out: -73.807+/-0.248 $\chi^2$/NDF:4029.8/25

All: -73.846+/-0.175 $\chi^2$/NDF: 8191.0/47




Right In: 34.729+/-0.442 $\chi^2$/NDF: 2809.1/15

Left Out: 41.187+/-0.257 $\chi^2$/NDF:613.6/6

Right Out: 30.279+/-0.467 $\chi^2$/NDF: 2911.2/18

Left In: 43.748+/-0.252 $\chi^2$/NDF:192.6/5

Left: 42.495+/-0.180 $\chi^2$/NDF: 856.9/12

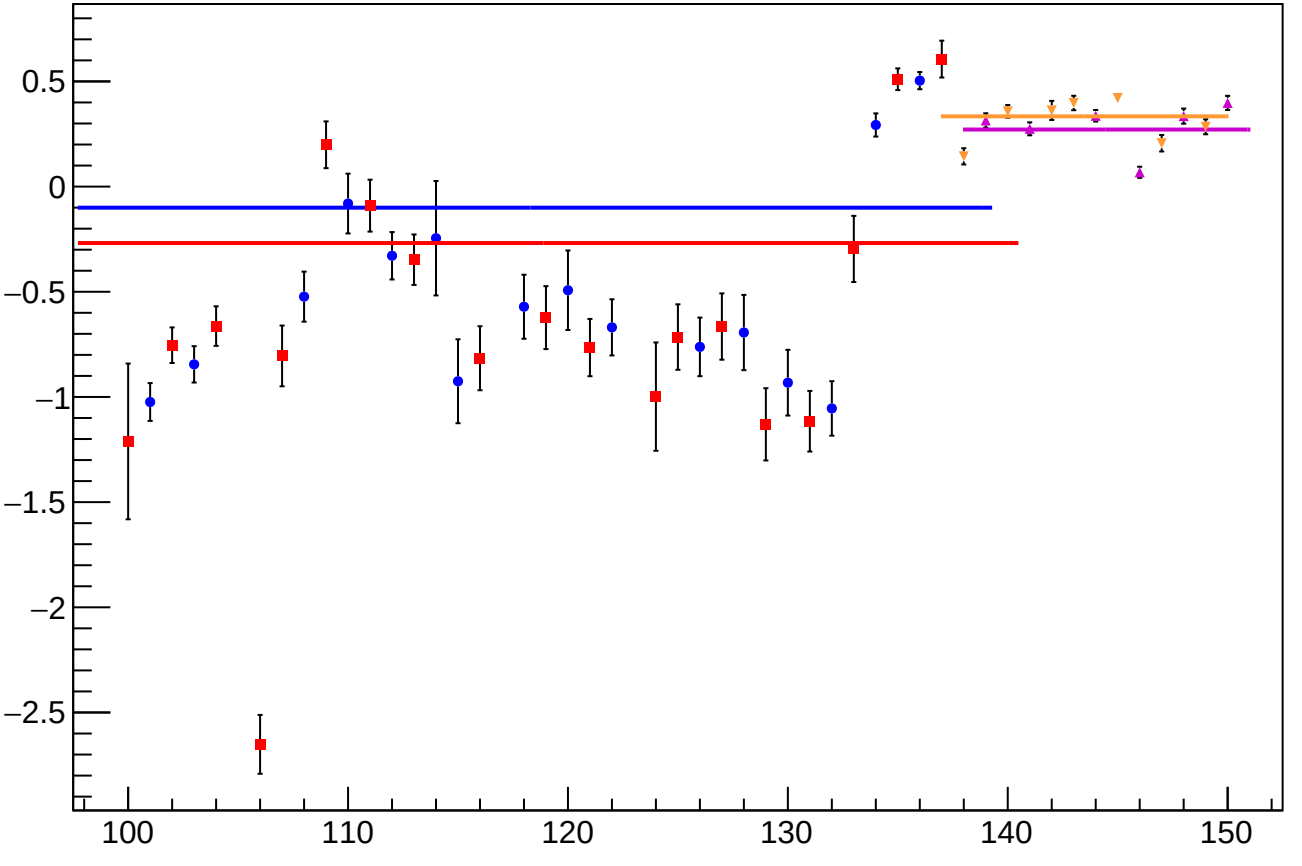
Right: 32.627+/-0.321 $\chi^2$/NDF: 5768.2/34

In: 41.537+/-0.219 $\chi^2$/NDF:3316.2/21

Out: 38.650+/-0.225 $\chi^2$/NDF:3943.3/25

All: 40.136+/-0.157 $\chi^2$/NDF: 7344.0/47

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.100+/-0.024 $\chi^2$/NDF: 631.4/15

Left Out: 0.334+/-0.013 $\chi^2$/NDF:55.1/6

Right Out: -0.268+/-0.026 $\chi^2$/NDF: 822.4/18

Left In: 0.271+/-0.013 $\chi^2$/NDF:83.3/5

Left: 0.303+/-0.009 $\chi^2$/NDF: 150.9/12

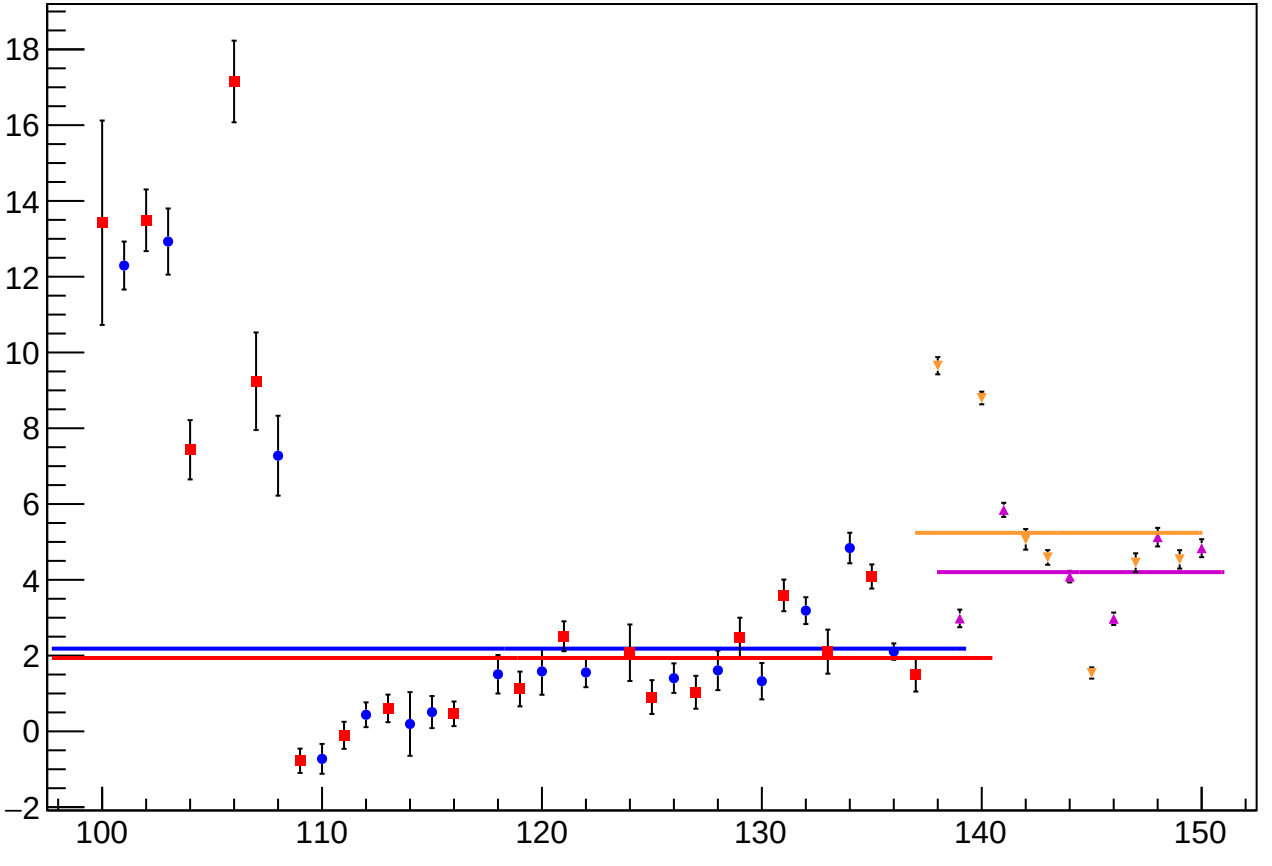
Right: -0.176+/-0.018 $\chi^2$/NDF: 1476.0/34

In: 0.191+/-0.011 $\chi^2$/NDF:902.3/21

Out: 0.223+/-0.011 $\chi^2$/NDF:1303.6/25

All: 0.207+/-0.008 $\chi^2$/NDF: 2209.8/47

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 2.184+/-0.105 $\chi^2$/NDF: 599.3/15

Left Out: 5.240+/-0.076 $\chi^2$/NDF:1475.0/6

Right Out: 1.936+/-0.105 $\chi^2$/NDF: 717.1/18

Left In: 4.203+/-0.079 $\chi^2$/NDF:183.7/5

Left: 4.739+/-0.055 $\chi^2$/NDF: 1748.6/12

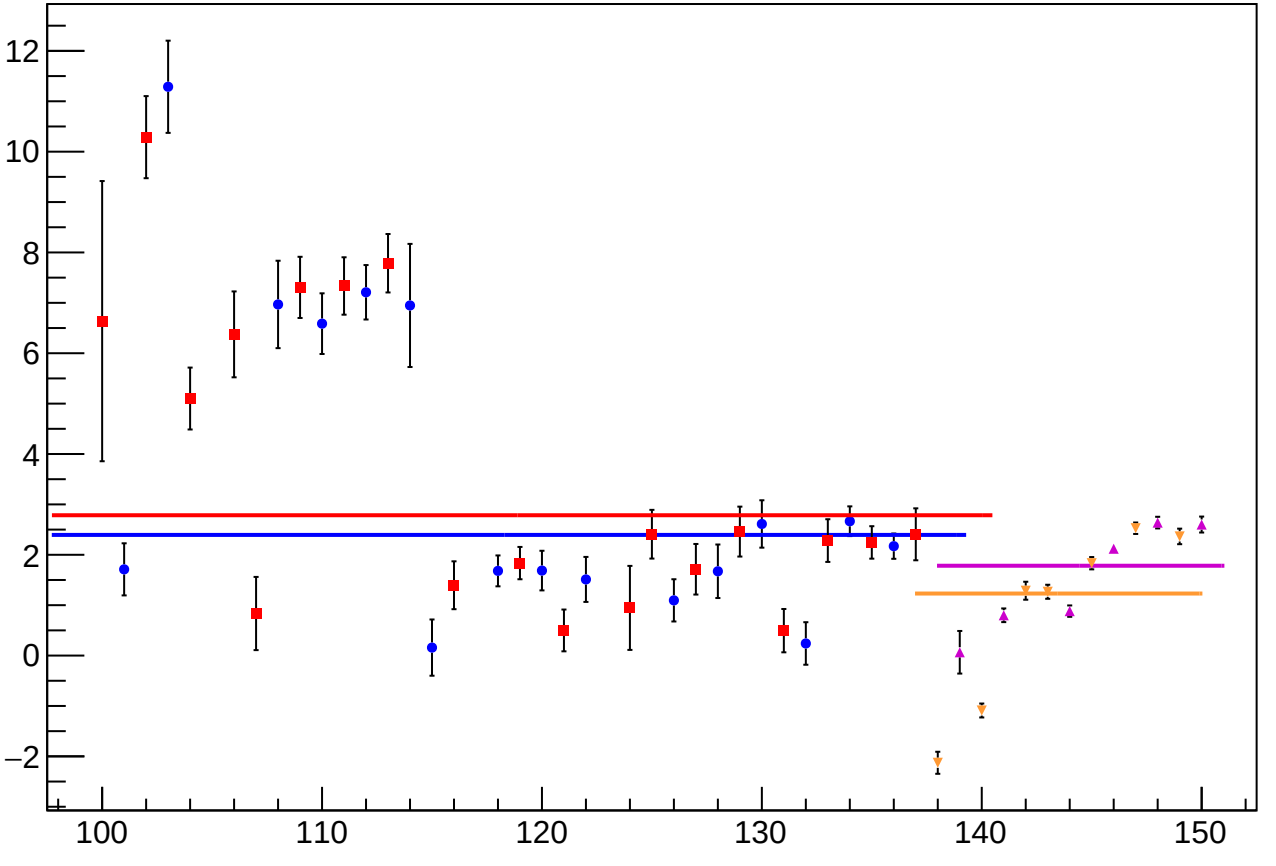
Right: 2.061+/-0.074 $\chi^2$/NDF: 1319.2/34

In: 3.478+/-0.063 $\chi^2$/NDF:1020.1/21

Out: 4.112+/-0.062 $\chi^2$/NDF:2838.1/25

All: 3.802+/-0.044 $\chi^2$/NDF: 3910.1/47

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.394+/-0.108 $\chi^2$/NDF: 333.9/15

Left Out: 1.231+/-0.054 $\chi^2$/NDF:726.3/6

Right Out: 2.785+/-0.116 $\chi^2$/NDF: 410.9/18

Left In: 1.783+/-0.052 $\chi^2$/NDF:227.0/5

Left: 1.516+/-0.038 $\chi^2$/NDF: 1007.1/12

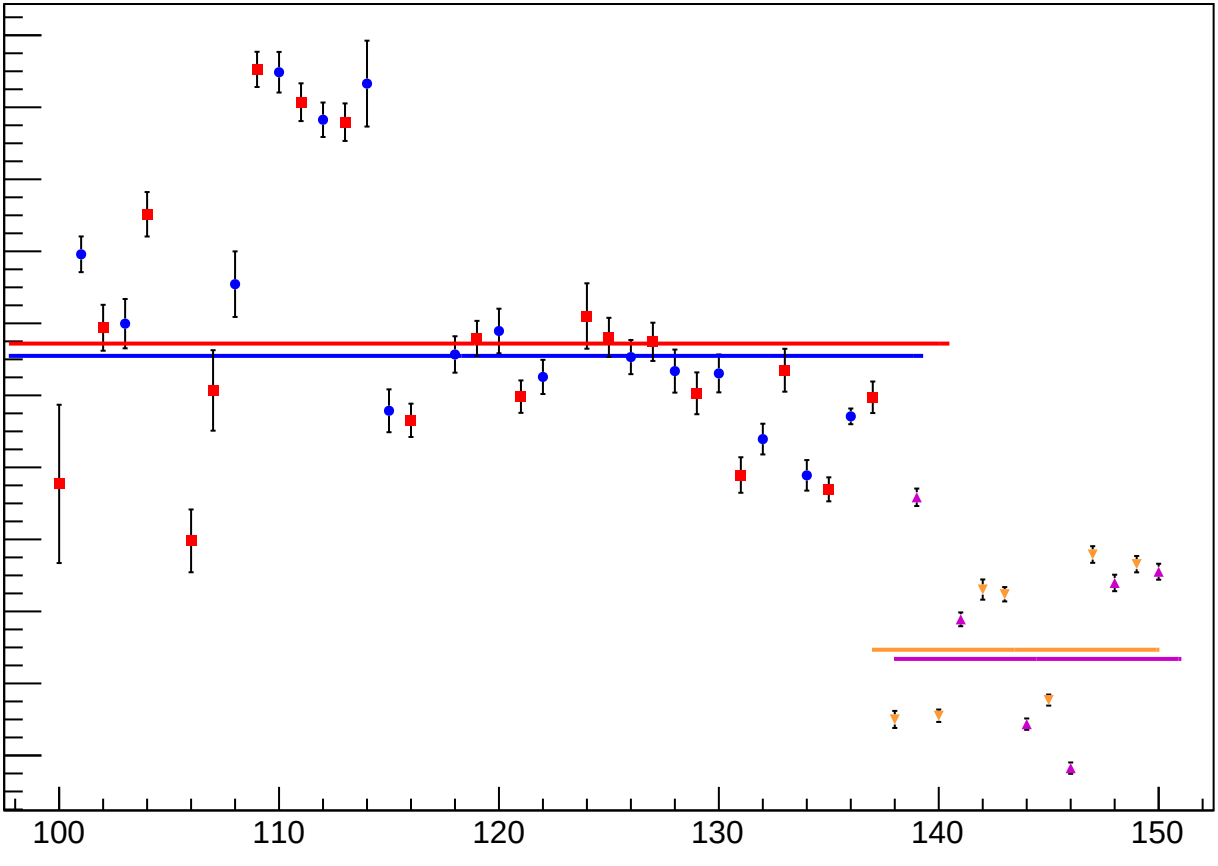
Right: 2.577+/-0.079 $\chi^2$/NDF: 750.9/34

In: 1.899+/-0.047 $\chi^2$/NDF:586.8/21

Out: 1.509+/-0.049 $\chi^2$/NDF:1284.9/25

All: 1.711+/-0.034 $\chi^2$/NDF: 1904.6/47

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 25.096+/-0.118 $\chi^2$/NDF: 622.9/15

Left Out: 16.936+/-0.077 $\chi^2$/NDF:598.6/6

Right Out: 25.438+/-0.124 $\chi^2$/NDF: 877.6/18

Left In: 16.681+/-0.078 $\chi^2$/NDF:1085.2/5

Left: 16.811+/-0.055 $\chi^2$/NDF: 1689.3/12

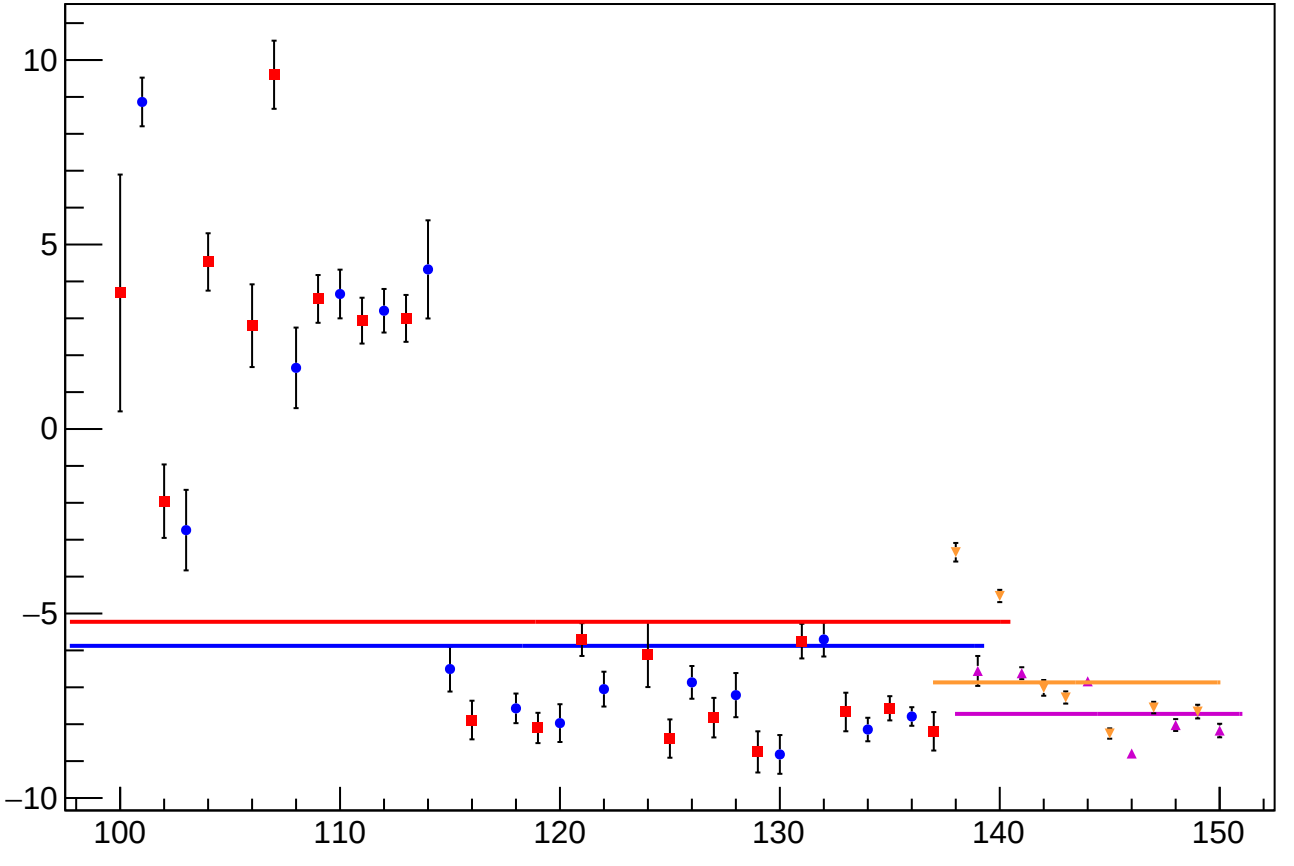
Right: 25.258+/-0.085 $\chi^2$/NDF: 1504.5/34

In: 19.252+/-0.065 $\chi^2$/NDF:5268.1/21

Out: 19.287+/-0.065 $\chi^2$/NDF:4876.2/25

All: 19.270+/-0.046 $\chi^2$/NDF: 10144.4/47

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -5.876+/-0.121 $\chi^2$/NDF: 1251.4/15

Left Out: -6.867+/-0.066 $\chi^2$/NDF:535.9/6

Right Out: -5.225+/-0.129 $\chi^2$/NDF: 1292.0/18

Left In: -7.720+/-0.065 $\chi^2$/NDF:189.2/5

Left: -7.301+/-0.046 $\chi^2$/NDF: 810.8/12

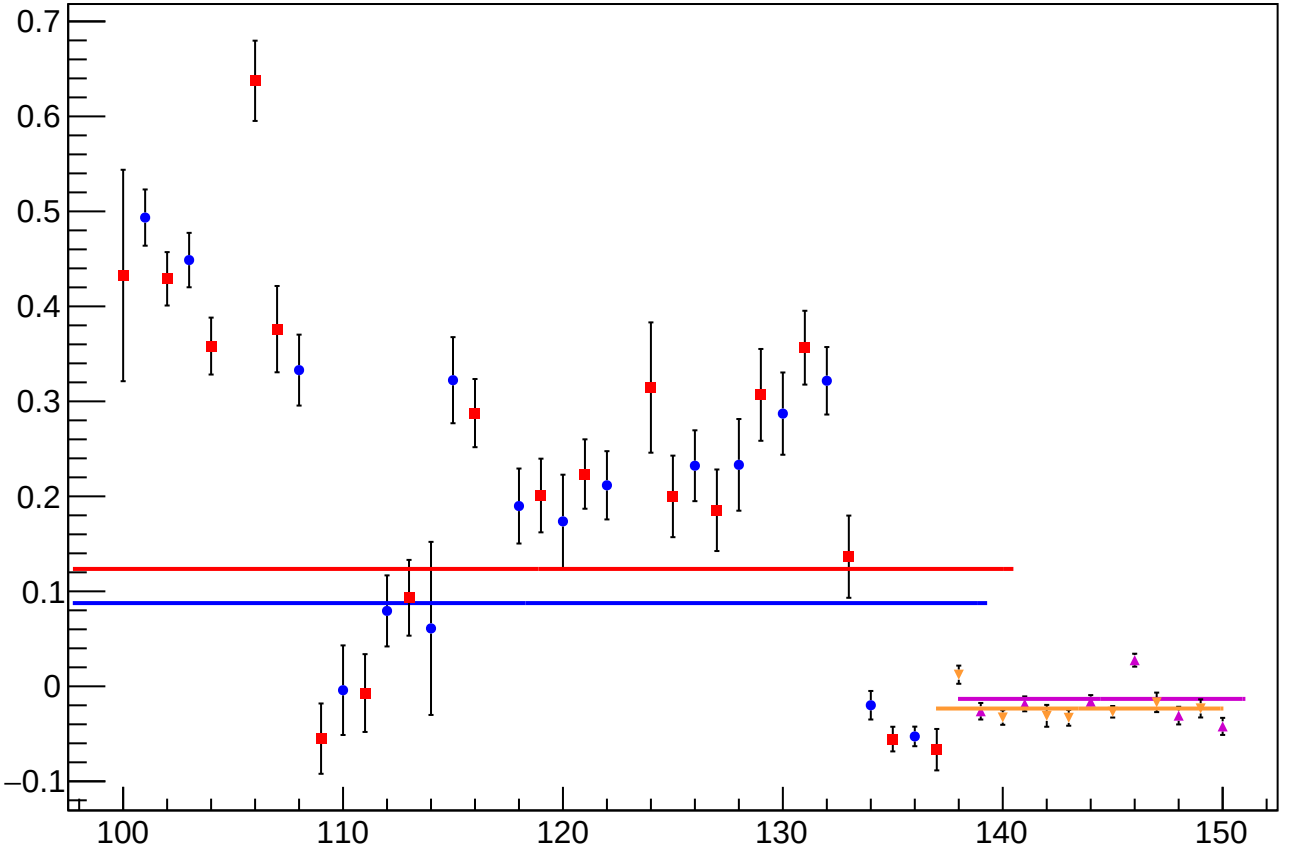
Right: -5.573+/-0.088 $\chi^2$/NDF: 2556.9/34

In: -7.309+/-0.057 $\chi^2$/NDF:1622.0/21

Out: -6.530+/-0.059 $\chi^2$/NDF:1955.9/25

All: -6.931+/-0.041 $\chi^2$/NDF: 3668.8/47

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.088+/-0.007 $\chi^2$/NDF: 768.0/15

Left Out: -0.023+/-0.003 $\chi^2$/NDF:18.0/6

Right Out: 0.124+/-0.007 $\chi^2$/NDF: 762.3/18

Left In: -0.013+/-0.003 $\chi^2$/NDF:52.7/5

Left: -0.018+/-0.002 $\chi^2$/NDF: 75.6/12

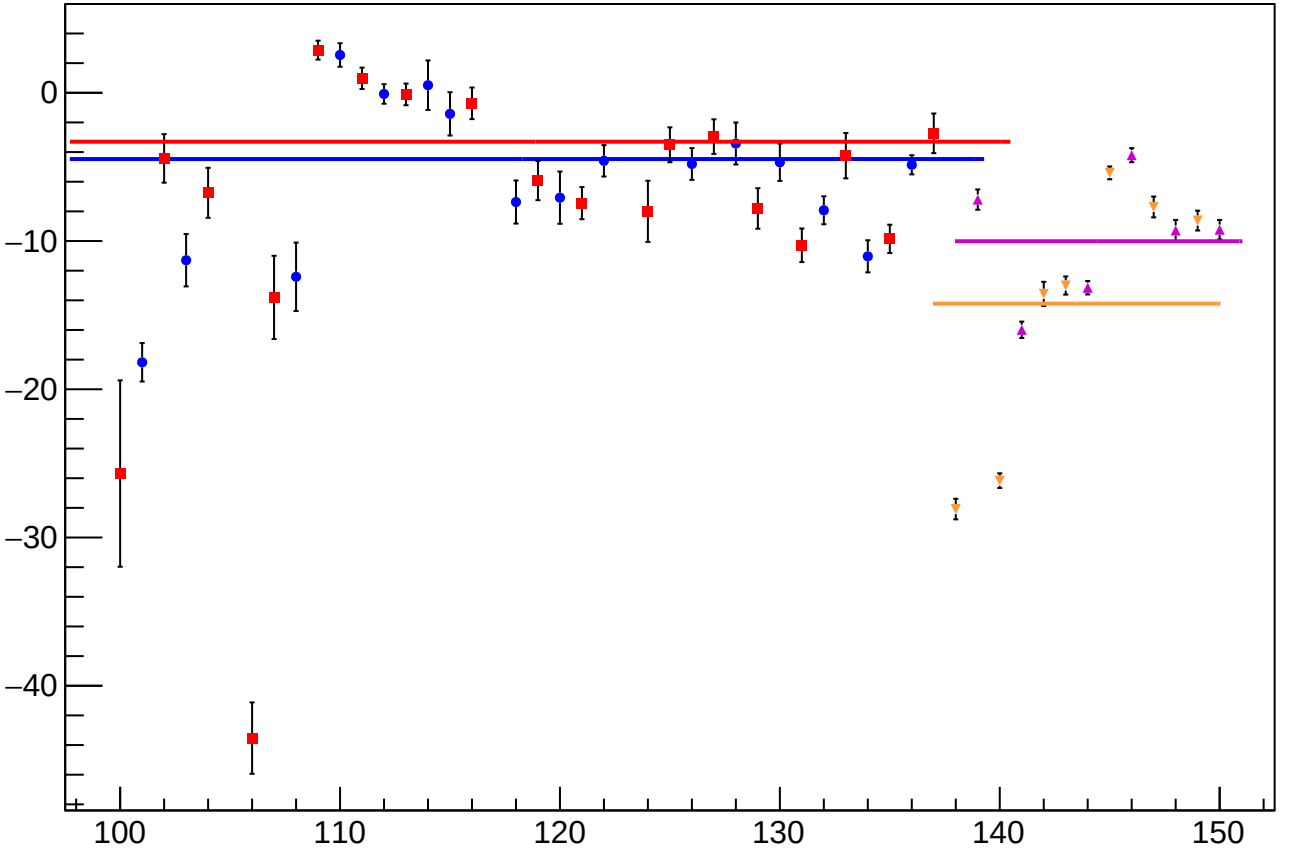
Right: 0.104+/-0.005 $\chi^2$/NDF: 1543.6/34

In: 0.006+/-0.003 $\chi^2$/NDF:1009.3/21

Out: 0.000+/-0.003 $\chi^2$/NDF:1117.9/25

All: 0.003+/-0.002 $\chi^2$/NDF: 2129.4/47

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.471+/-0.268 $\chi^2$/NDF: 331.8/15

Left Out: -14.225+/-0.224 $\chi^2$/NDF:1553.0/6

Right Out: -3.302+/-0.261 $\chi^2$/NDF: 584.6/18

Left In: -10.015+/-0.229 $\chi^2$/NDF:332.7/5

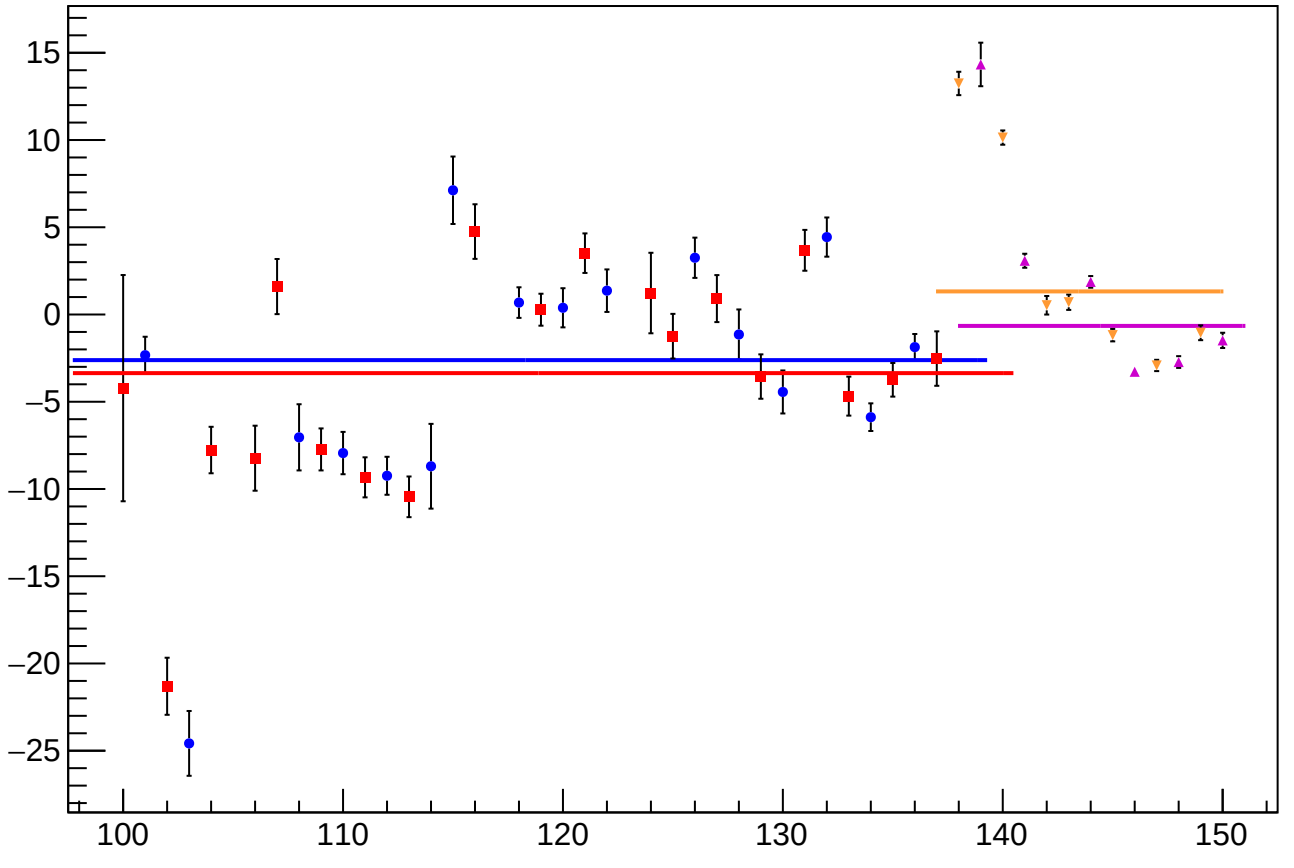
Left: -12.169+/-0.160 $\chi^2$/NDF: 2058.1/12

Right: -3.869+/-0.187 $\chi^2$/NDF: 926.1/34

In: -7.675+/-0.174 $\chi^2$/NDF:911.0/21

Out: -9.587+/-0.170 $\chi^2$/NDF:3146.8/25

All: -8.656+/-0.122 $\chi^2$/NDF: 4119.5/47




Right In: -2.615+/-0.286 $\chi^2$/NDF: 351.9/15

Left Out: 1.324+/-0.158 $\chi^2$/NDF:1037.1/6

Right Out: -3.359+/-0.299 $\chi^2$/NDF: 359.6/18

Left In: -0.653+/-0.154 $\chi^2$/NDF:415.0/5

Left: 0.305+/-0.110 $\chi^2$/NDF: 1532.3/12

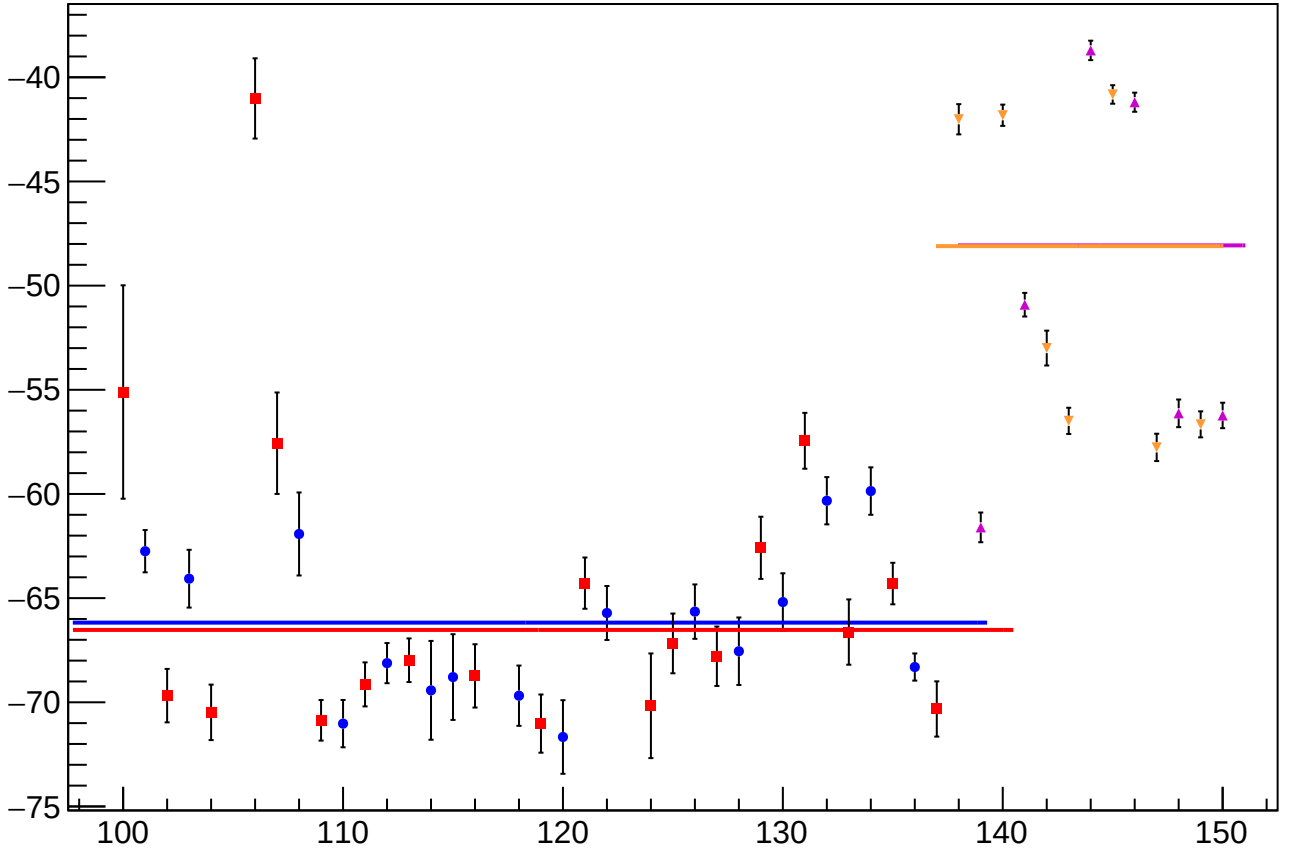
Right: -2.970+/-0.206 $\chi^2$/NDF: 714.8/34

In: -1.094+/-0.135 $\chi^2$/NDF:803.5/21

Out: 0.295+/-0.140 $\chi^2$/NDF:1588.5/25

All: -0.423+/-0.097 $\chi^2$/NDF: 2442.8/47

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -66.176+/-0.304 $\chi^2$/NDF: 129.2/15

Left Out: -48.104+/-0.226 $\chi^2$/NDF:1106.1/6

Right Out: -66.526+/-0.312 $\chi^2$/NDF: 321.7/18

Left In: -48.069+/-0.227 $\chi^2$/NDF:1337.8/5

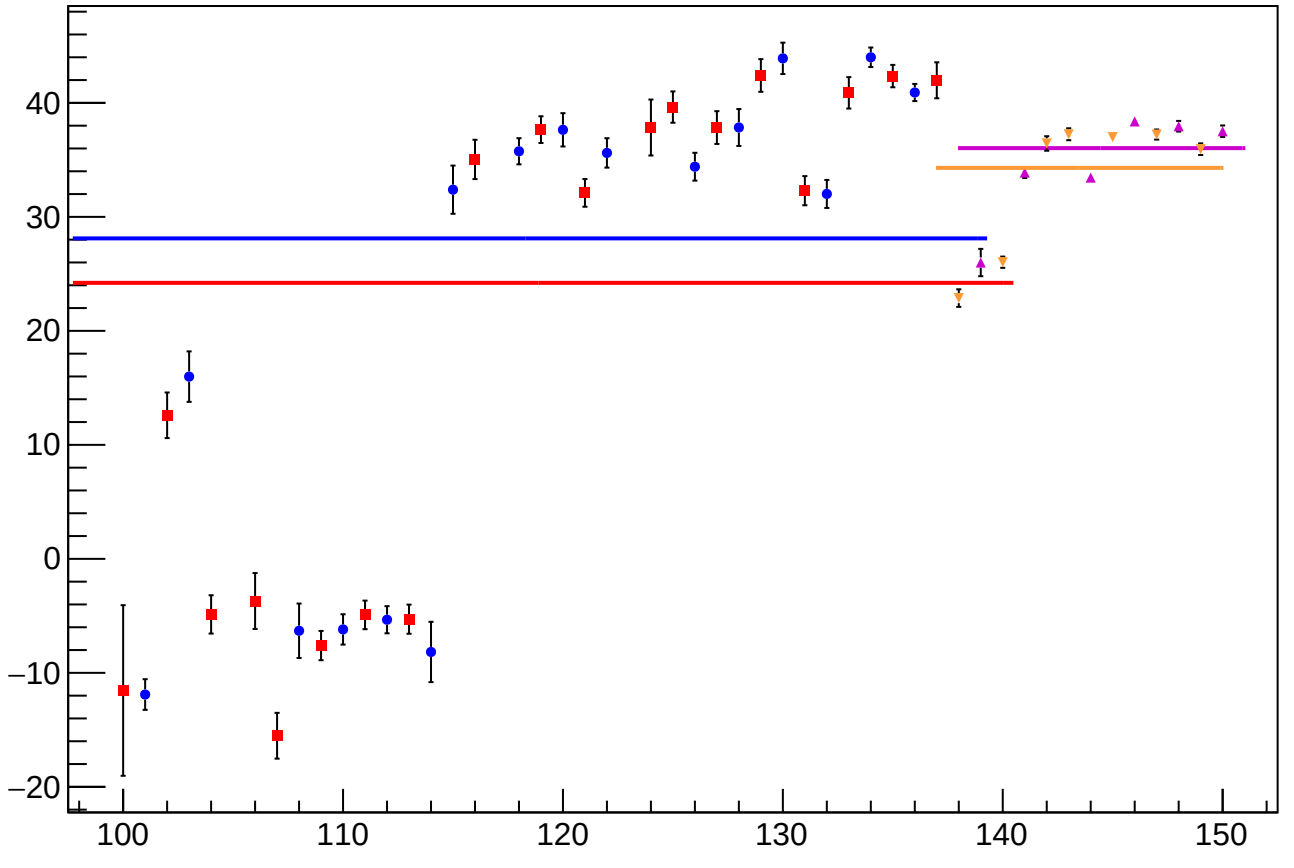
Left: -48.087+/-0.160 $\chi^2$/NDF: 2443.9/12

Right: -66.346+/-0.218 $\chi^2$/NDF: 451.5/34

In: -54.551+/-0.182 $\chi^2$/NDF:3739.9/21

Out: -54.420+/-0.183 $\chi^2$/NDF:3712.0/25

All: -54.485+/-0.129 $\chi^2$/NDF: 7452.1/47




Right In: 28.112+/-0.320 $\chi^2$/NDF: 3727.7/15

Left Out: 34.300+/-0.193 $\chi^2$/NDF:641.9/6

Right Out: 24.212+/-0.336 $\chi^2$/NDF: 3841.7/18

Left In: 36.031+/-0.189 $\chi^2$/NDF:202.7/5

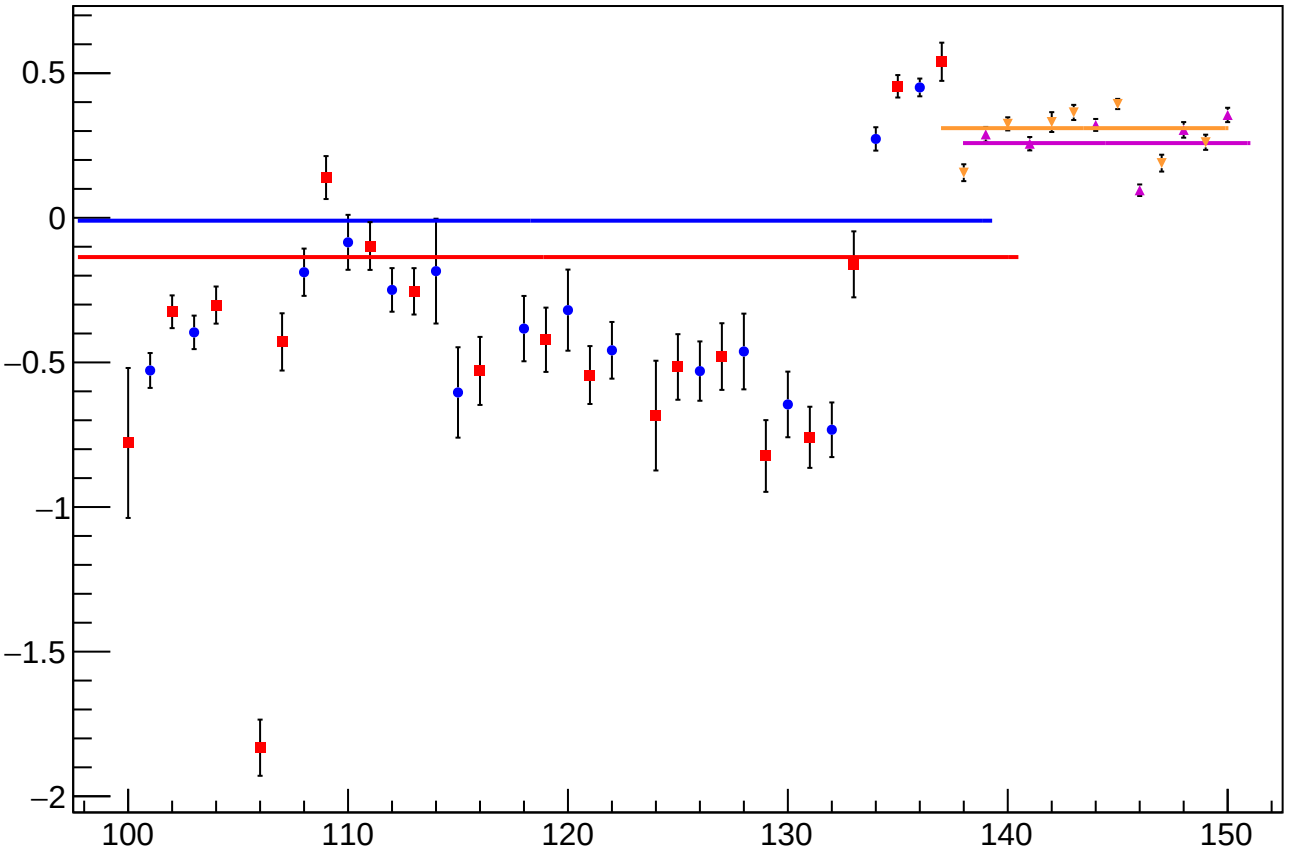
Left: 35.184+/-0.135 $\chi^2$/NDF: 885.6/12

Right: 26.255+/-0.232 $\chi^2$/NDF: 7640.1/34

In: 33.982+/-0.163 $\chi^2$/NDF:4384.4/21

Out: 31.792+/-0.167 $\chi^2$/NDF:5162.6/25

All: 32.918+/-0.117 $\chi^2$/NDF: 9635.0/47




Right In: -0.010+/-0.017 $\chi^2$/NDF: 587.4/15

Left Out: 0.310+/-0.009 $\chi^2$/NDF:76.2/6

Right Out: -0.136+/-0.019 $\chi^2$/NDF: 818.5/18

Left In: 0.258+/-0.009 $\chi^2$/NDF:95.8/5

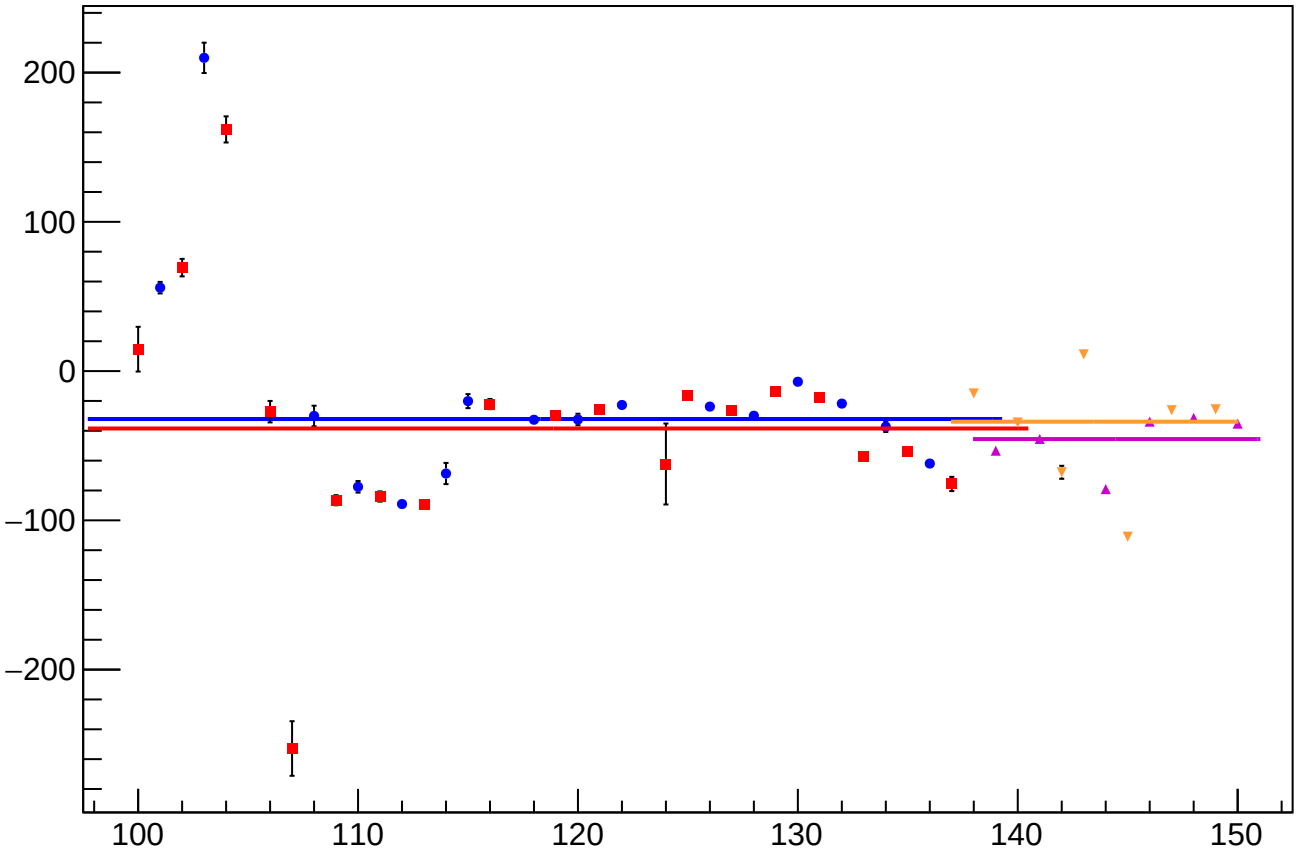
Left: 0.284+/-0.007 $\chi^2$/NDF: 187.0/12

Right: -0.068+/-0.013 $\chi^2$/NDF: 1430.0/34

In: 0.197+/-0.008 $\chi^2$/NDF:868.1/21

Out: 0.221+/-0.008 $\chi^2$/NDF:1342.9/25

All: 0.209+/-0.006 $\chi^2$/NDF: 2215.1/47




Right In: -32.117+/-0.843 $\chi^2$/NDF: 1877.5/15

Left Out: -33.905+/-0.106 $\chi^2$/NDF:899.3/6

Right Out: -38.462+/-0.864 $\chi^2$/NDF: 1972.5/18

Left In: -45.538+/-1.111 $\chi^2$/NDF:192.3/5

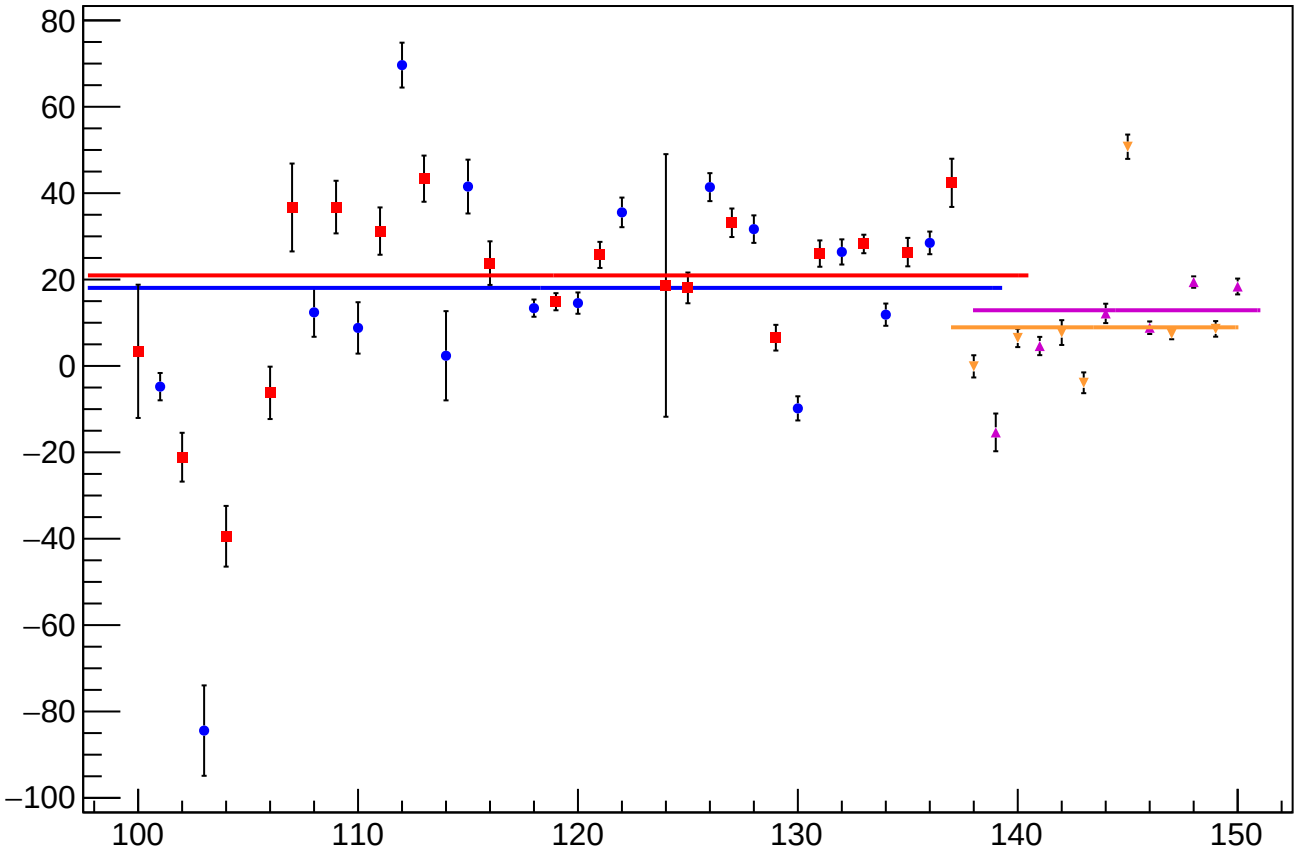
Left: -39.694+/-0.784 $\chi^2$/NDF: 1146.6/12

Right: -35.208+/-0.603 $\chi^2$/NDF: 3877.6/34

In: -37.018+/-0.671 $\chi^2$/NDF:2162.4/21

Out: -36.733+/-0.681 $\chi^2$/NDF:2882.3/25

All: -36.878+/-0.478 $\chi^2$/NDF: 5044.8/47




Right In: 18.068+/-0.823 $\chi^2$/NDF: 499.6/15

Left Out: 8.940+/-0.767 $\chi^2$/NDF:264.2/6

Right Out: 20.959+/-0.868 $\chi^2$/NDF: 262.6/18

Left In: 12.891+/-0.742 $\chi^2$/NDF:98.5/5

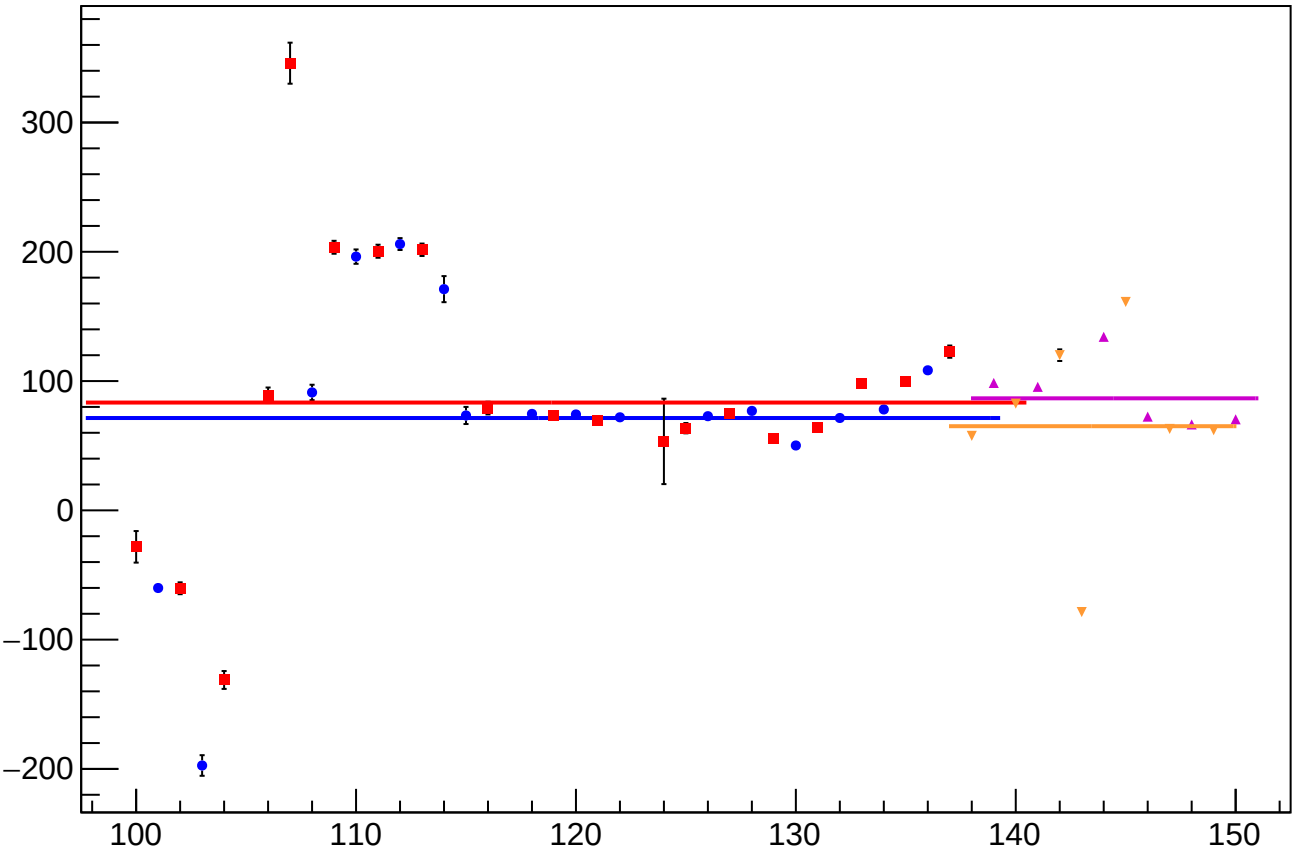
Left: 10.980+/-0.533 $\chi^2$/NDF: 376.4/12

Right: 19.435+/-0.597 $\chi^2$/NDF: 768.0/34

In: 15.213+/-0.551 $\chi^2$/NDF:619.9/21

Out: 14.205+/-0.575 $\chi^2$/NDF:634.5/25

All: 14.730+/-0.398 $\chi^2$/NDF: 1256.0/47




Right In: 71.421+/-0.931 $\chi^2$/NDF: 4819.6/15

Left Out: 65.090+/-1.103 $\chi^2$/NDF:2871.0/6

Right Out: 83.385+/-0.985 $\chi^2$/NDF: 4297.3/18

Left In: 86.652+/-1.094 $\chi^2$/NDF:395.3/5

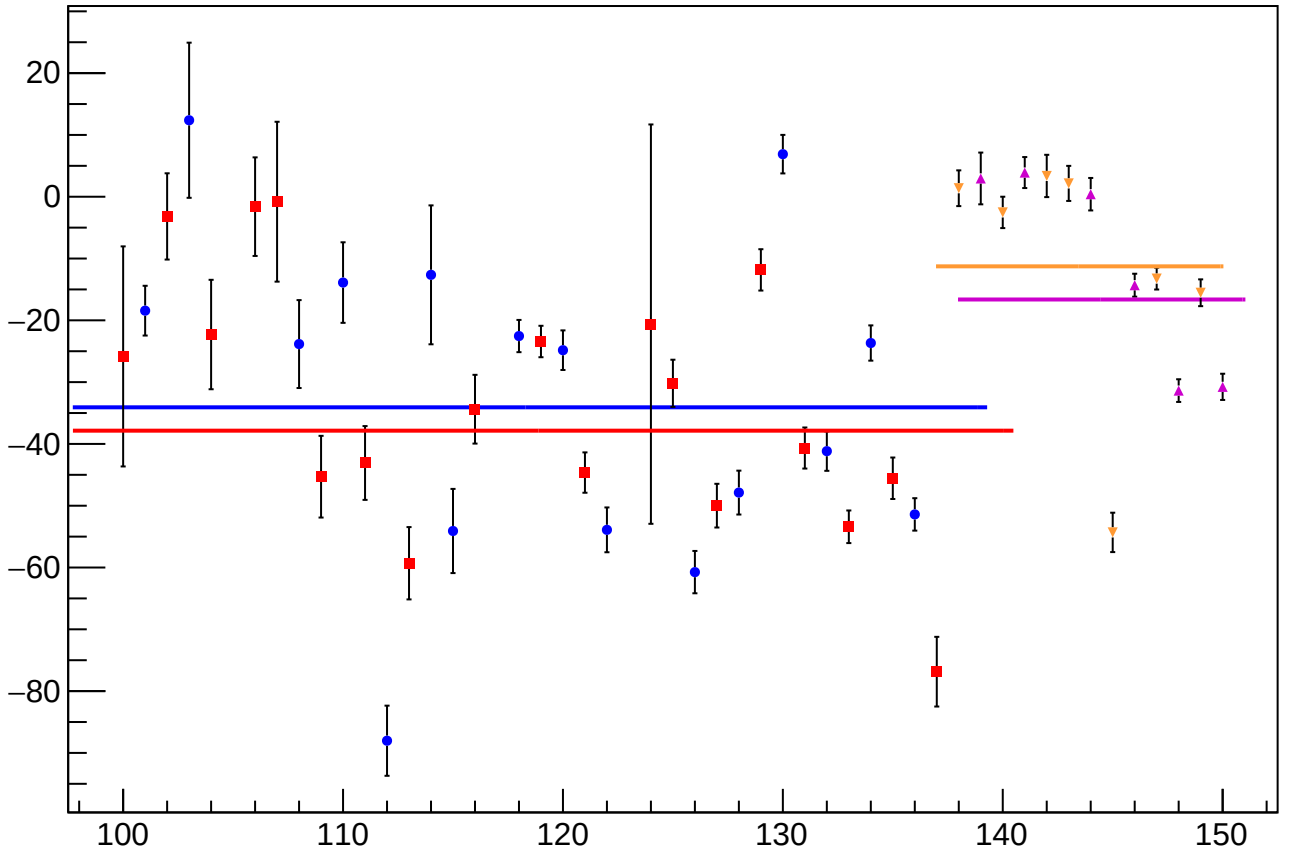
Left: 75.957+/-0.777 $\chi^2$/NDF: 3458.9/12

Right: 77.066+/-0.677 $\chi^2$/NDF: 9194.8/34

In: 77.819+/-0.709 $\chi^2$/NDF:5327.3/21

Out: 75.266+/-0.735 $\chi^2$/NDF:7321.4/25

All: 76.588+/-0.510 $\chi^2$/NDF: 12654.9/47




Right In: -34.077+/-0.942 $\chi^2$/NDF: 511.2/15

Left Out: -11.266+/-0.947 $\chi^2$/NDF:259.2/6

Right Out: -37.855+/-0.994 $\chi^2$/NDF: 274.6/18

Left In: -16.629+/-0.924 $\chi^2$/NDF:241.5/5

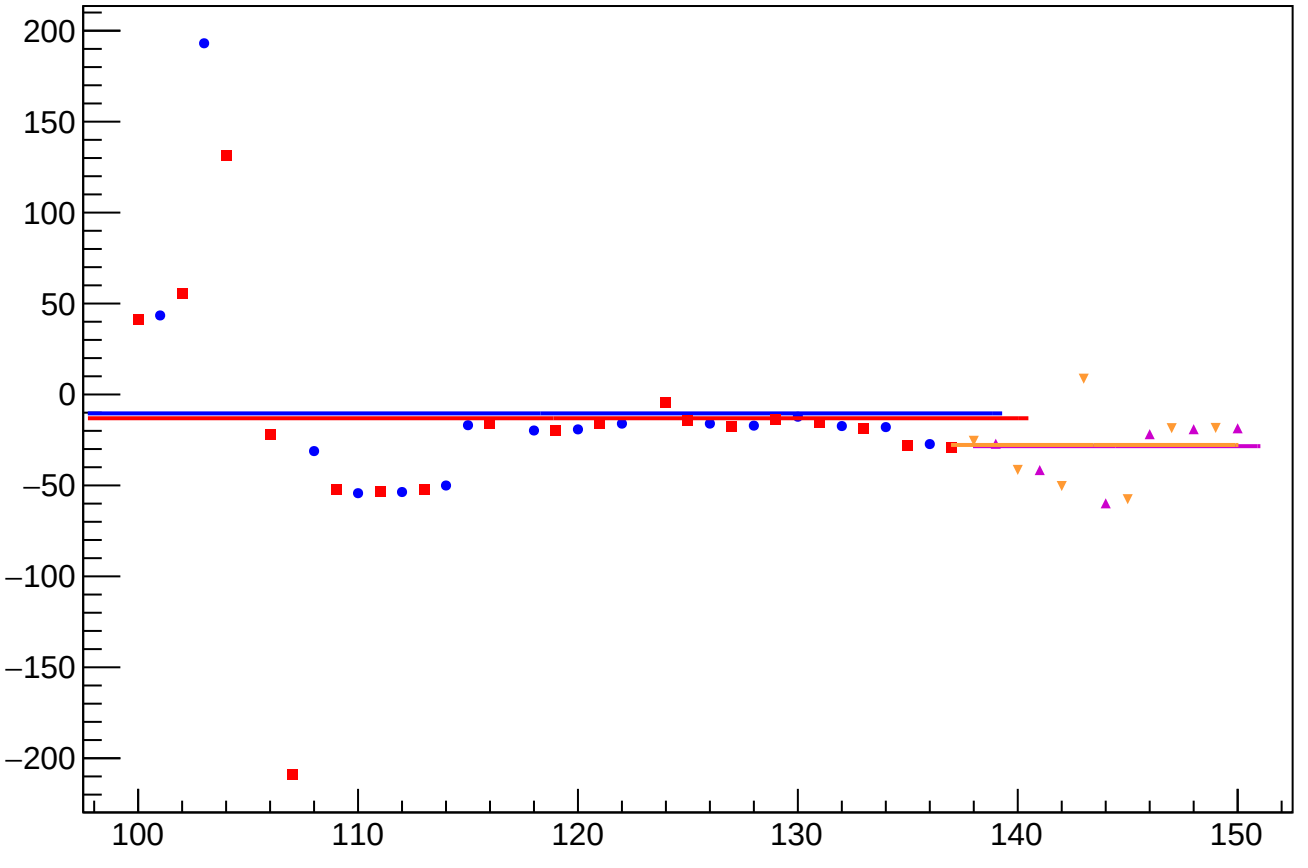
Left: -14.011+/-0.661 $\chi^2$/NDF: 517.1/12

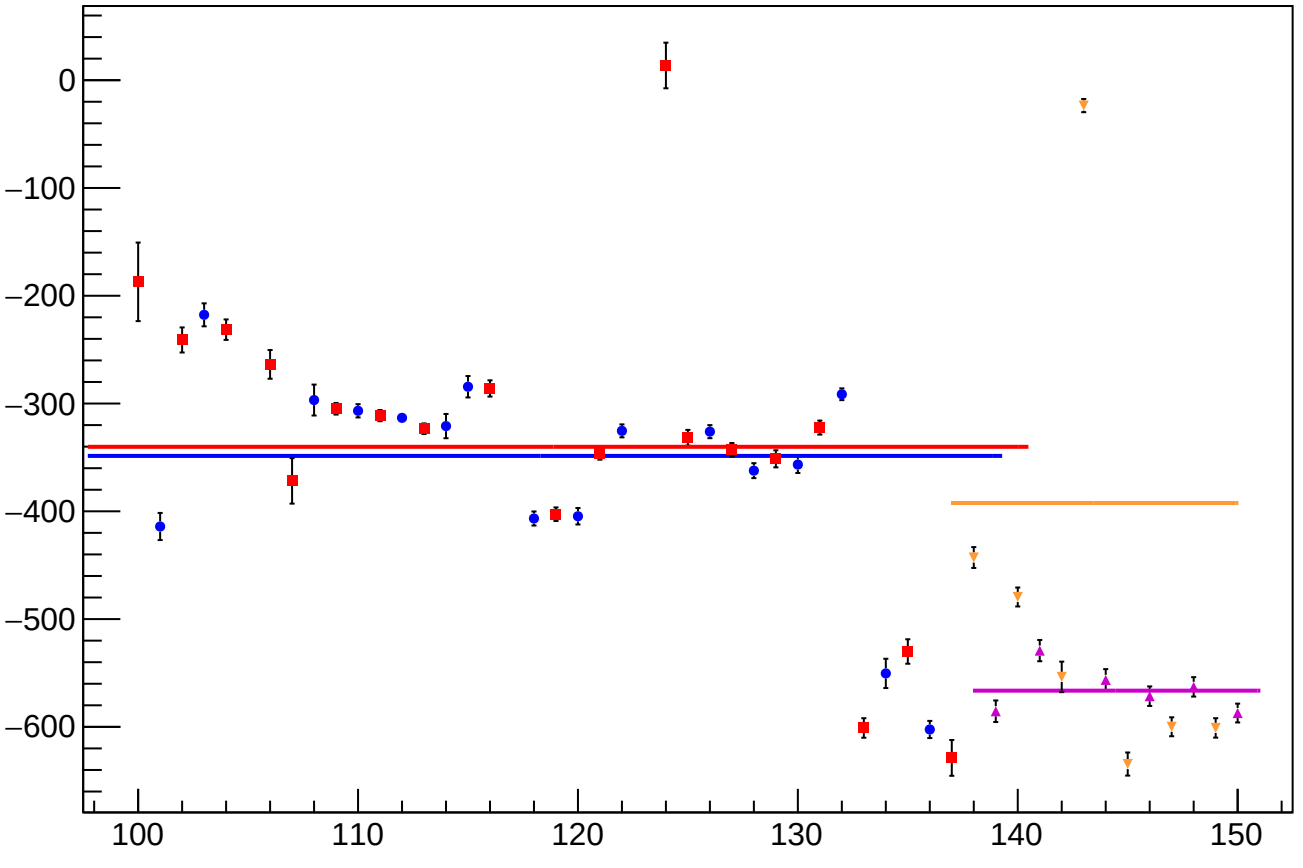
Right: -35.865+/-0.684 $\chi^2$/NDF: 793.4/34

In: -25.187+/-0.660 $\chi^2$/NDF:927.4/21

Out: -23.917+/-0.686 $\chi^2$/NDF:909.1/25

All: -24.576+/-0.475 $\chi^2$/NDF: 1838.2/47


reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected
200
150
100
50
0
−50
−100
−150
−200
100
110
120
130
140
150
Right In: -10.400+/-0.057 χ²/NDF: 522334.6/15
Left Out: -27.754+/-0.046 χ²/NDF:164050.5/6
Right Out: -13.074+/-0.063 χ²/NDF: 449609.3/18
Left In: -28.419+/-0.044 χ²/NDF:83033.9/5
Left: -28.101+/-0.032 χ²/NDF: 247193.1/12
Right: -11.607+/-0.042 χ²/NDF: 972944.0/34
In: -21.645+/-0.035 χ²/NDF:668128.8/21
Out: -22.596+/-0.037 χ²/NDF:649307.8/25
All: -22.090+/-0.025 χ²/NDF: 1317785.1/47




Right In: -348.586+/-1.825 $\chi^2$/NDF: 1858.3/15

Left Out: -392.287+/-3.347 $\chi^2$/NDF:5488.8/6

Right Out: -340.144+/-1.759 $\chi^2$/NDF: 2197.1/18

Left In: -566.401+/-3.837 $\chi^2$/NDF:25.0/5

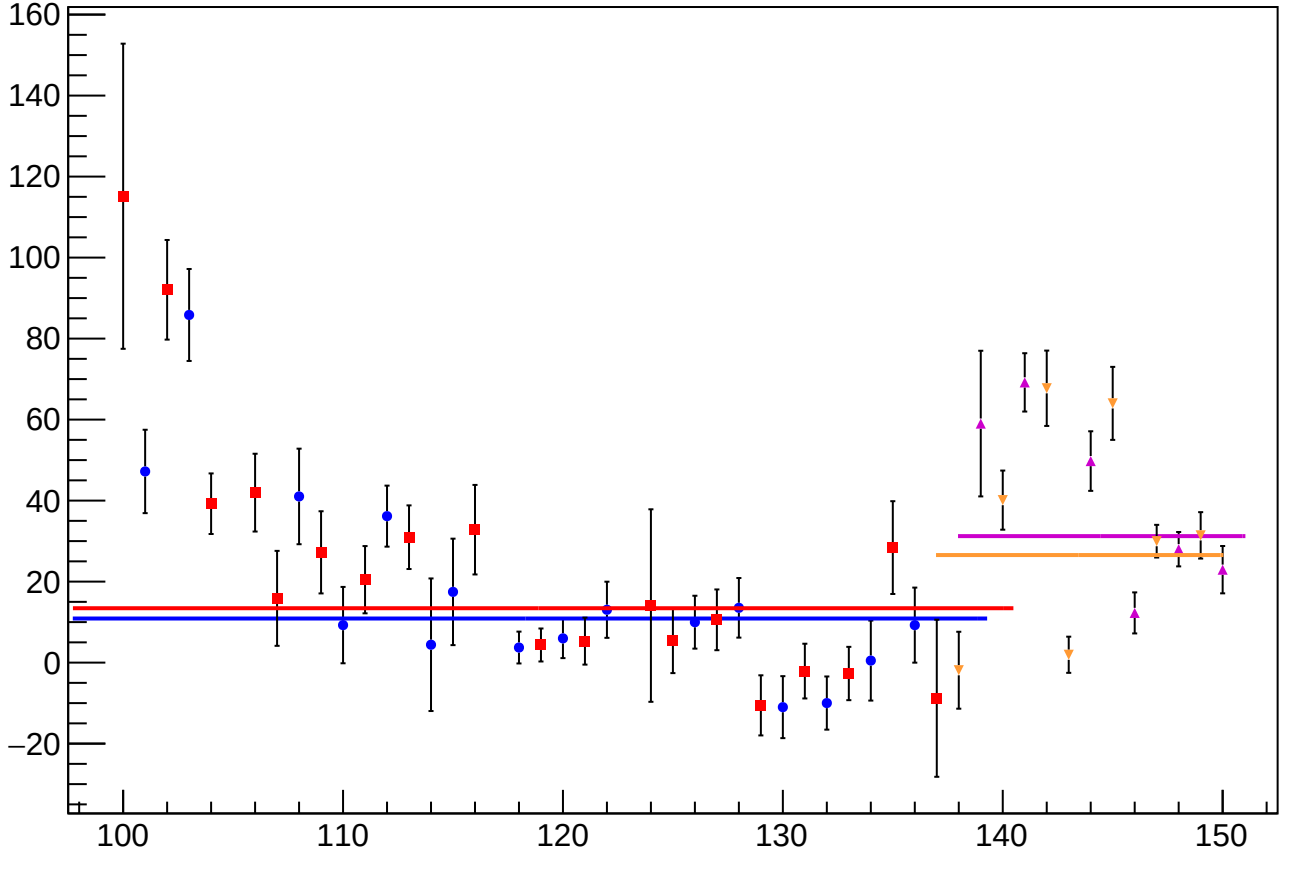
Left: -467.529+/-2.522 $\chi^2$/NDF: 6683.2/12

Right: -344.211+/-1.267 $\chi^2$/NDF: 4066.5/34

In: -388.761+/-1.648 $\chi^2$/NDF:4511.6/21

Out: -351.432+/-1.557 $\chi^2$/NDF:7876.1/25

All: -369.044+/-1.132 $\chi^2$/NDF: 12658.7/47




Right In: 10.888+/-1.843 $\chi^2$/NDF: 98.2/15

Left Out: 26.556+/-2.260 $\chi^2$/NDF:81.1/6

Right Out: 13.427+/-1.854 $\chi^2$/NDF: 112.4/18

Left In: 31.231+/-2.465 $\chi^2$/NDF:53.1/5

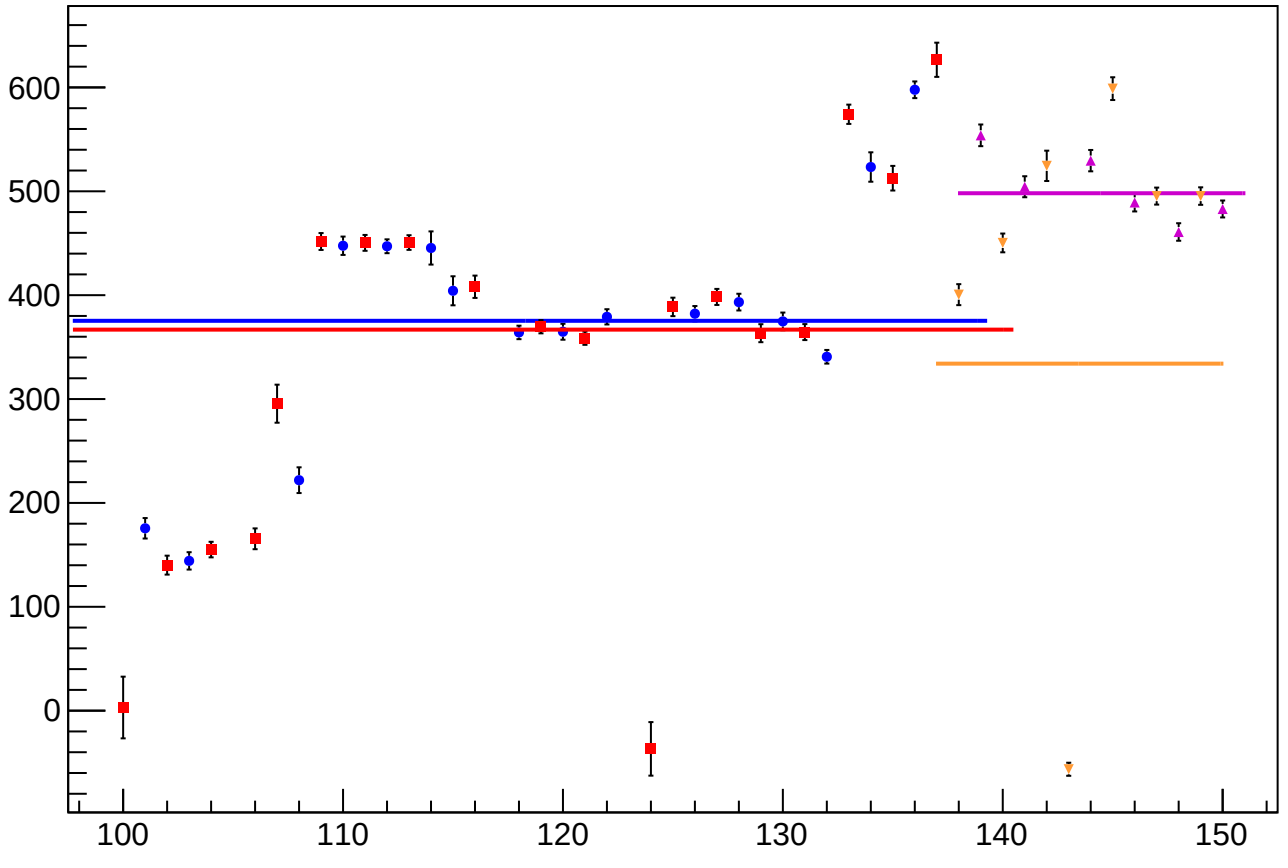
Left: 28.691+/-1.666 $\chi^2$/NDF: 136.2/12

Right: 12.149+/-1.307 $\chi^2$/NDF: 211.6/34

In: 18.182+/-1.476 $\chi^2$/NDF:195.0/21

Out: 18.710+/-1.434 $\chi^2$/NDF:213.7/25

All: 18.453+/-1.028 $\chi^2$/NDF: 408.8/47




Right In: 375.321+/-2.103 $\chi^2$/NDF: 2449.5/15

Left Out: 334.082+/-3.347 $\chi^2$/NDF:5562.6/6

Right Out: 366.830+/-2.049 $\chi^2$/NDF: 3541.1/18

Left In: 498.136+/-3.757 $\chi^2$/NDF:62.3/5

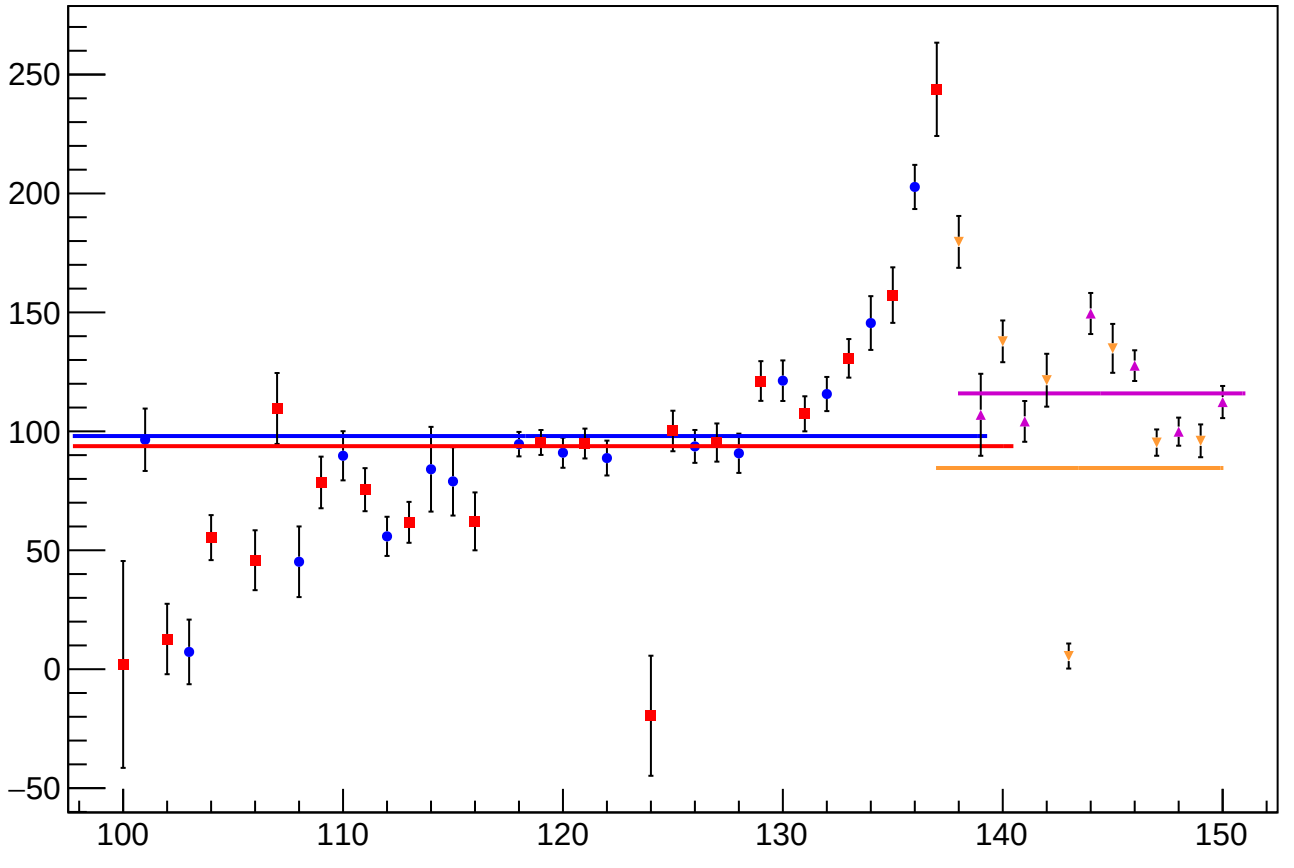
Left: 406.657+/-2.499 $\chi^2$/NDF: 6688.0/12

Right: 370.966+/-1.468 $\chi^2$/NDF: 5998.9/34

In: 404.613+/-1.835 $\chi^2$/NDF:3325.4/21

Out: 357.898+/-1.748 $\chi^2$/NDF:9173.4/25

All: 380.119+/-1.266 $\chi^2$/NDF: 12838.6/47




Right In: 98.021+/-2.144 $\chi^2$/NDF: 249.5/15

Left Out: 84.591+/-2.787 $\chi^2$/NDF:379.9/6

Right Out: 93.771+/-2.138 $\chi^2$/NDF: 237.1/18

Left In: 115.950+/-3.087 $\chi^2$/NDF:28.3/5

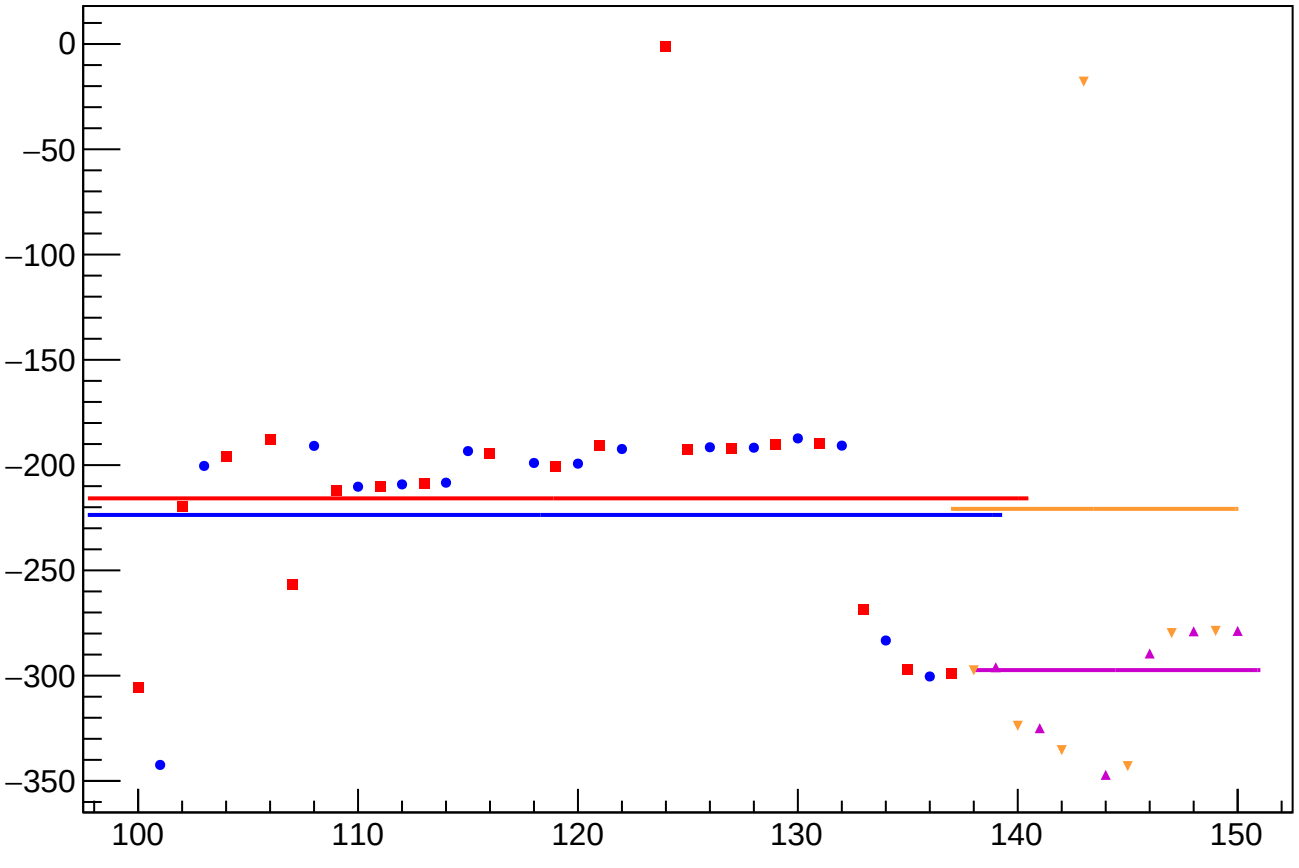
Left: 98.674+/-2.069 $\chi^2$/NDF: 465.0/12

Right: 95.890+/-1.514 $\chi^2$/NDF: 488.6/34

In: 103.856+/-1.761 $\chi^2$/NDF:300.5/21

Out: 90.370+/-1.697 $\chi^2$/NDF:623.8/25

All: 96.861+/-1.222 $\chi^2$/NDF: 954.7/47




Right In: -223.666+/-0.138 $\chi^2$/NDF: 121528.3/15

Left Out: -220.784+/-0.141 $\chi^2$/NDF:872450.1/6

Right Out: -215.797+/-0.134 $\chi^2$/NDF: 81516.6/18

Left In: -297.363+/-0.153 $\chi^2$/NDF:22627.6/5

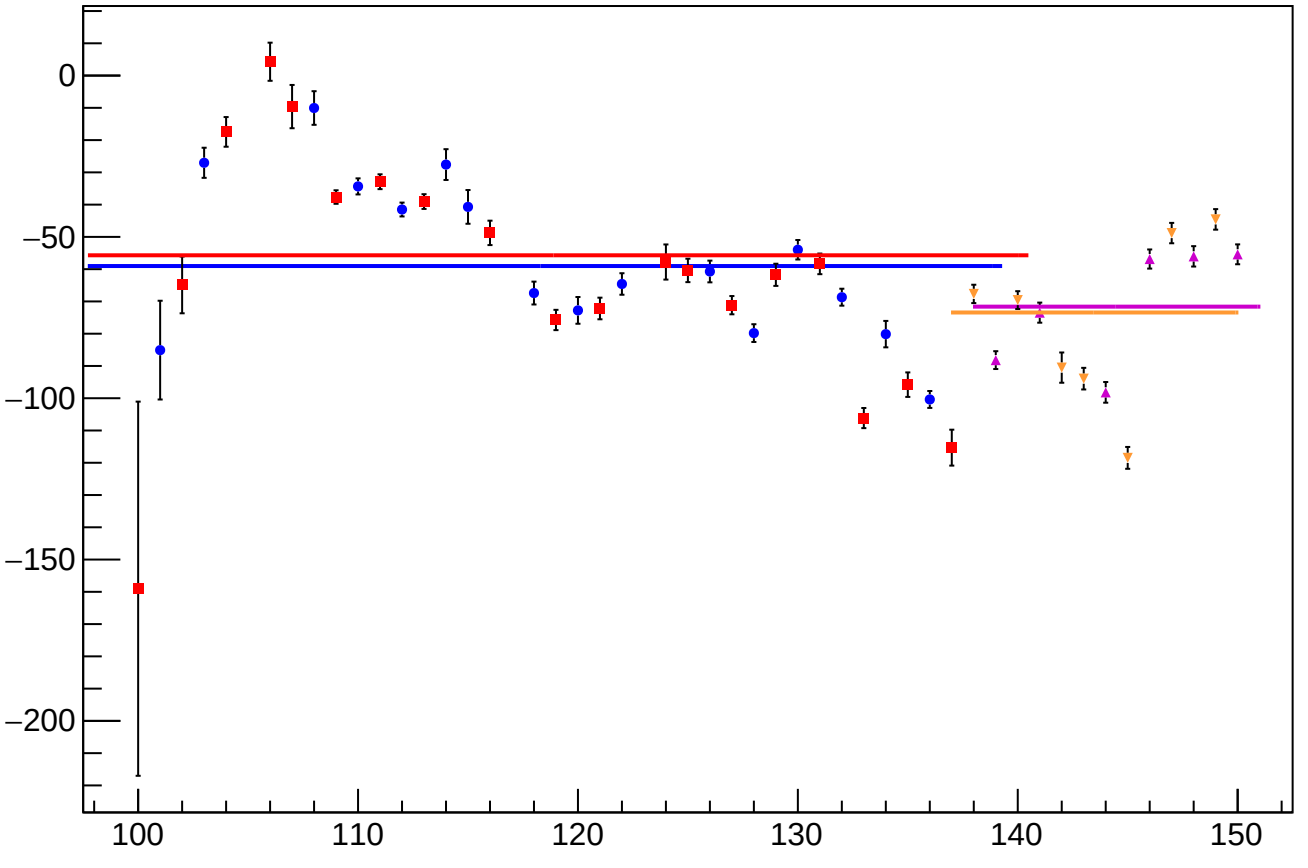
Left: -255.873+/-0.104 $\chi^2$/NDF: 1030602.0/12

Right: -219.617+/-0.096 $\chi^2$/NDF: 204711.3/34

In: -256.774+/-0.103 $\chi^2$/NDF:271747.2/21

Out: -218.172+/-0.097 $\chi^2$/NDF:954623.5/25

All: -236.423+/-0.071 $\chi^2$/NDF: 1300960.6/47




Right In: -59.030+/-0.829 $\chi^2$/NDF: 727.3/15

Left Out: -73.427+/-1.217 $\chi^2$/NDF:376.6/6

Right Out: -55.701+/-0.790 $\chi^2$/NDF: 1041.1/18

Left In: -71.615+/-1.239 $\chi^2$/NDF:181.9/5

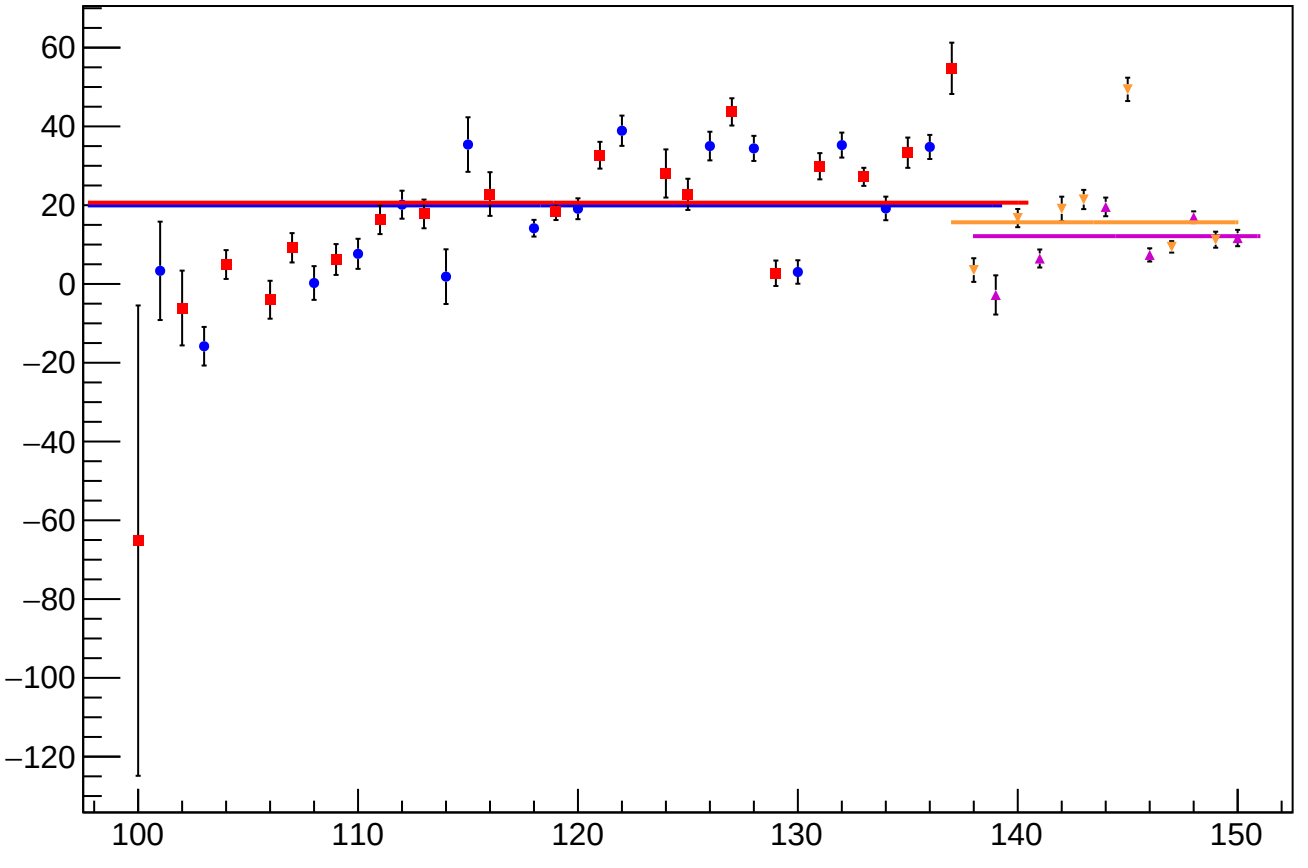
Left: -72.538+/-0.868 $\chi^2$/NDF: 559.5/12

Right: -57.284+/-0.572 $\chi^2$/NDF: 1776.9/34

In: -62.922+/-0.689 $\chi^2$/NDF:980.4/21

Out: -60.956+/-0.663 $\chi^2$/NDF:1567.0/25

All: -61.900+/-0.478 $\chi^2$/NDF: 2551.6/47




Right In: 19.946+/-0.867 $\chi^2$/NDF: 247.2/15

Left Out: 15.660+/-0.845 $\chi^2$/NDF:176.1/6

Right Out: 20.643+/-0.844 $\chi^2$/NDF: 224.8/18

Left In: 12.135+/-0.831 $\chi^2$/NDF:43.4/5

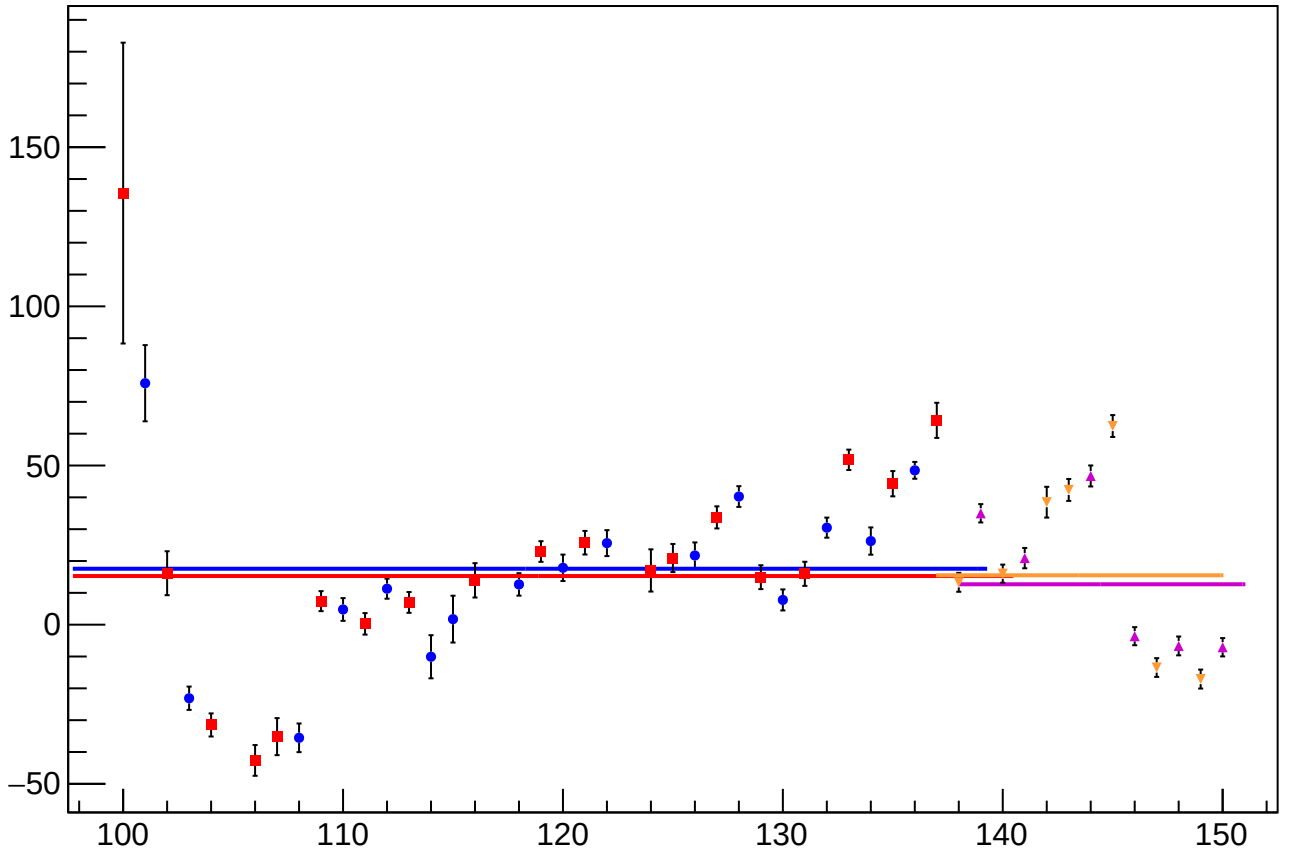
Left: 13.868+/-0.593 $\chi^2$/NDF: 228.3/12

Right: 20.304+/-0.605 $\chi^2$/NDF: 472.3/34

In: 15.875+/-0.600 $\chi^2$/NDF:332.9/21

Out: 18.156+/-0.597 $\chi^2$/NDF:418.2/25

All: 17.022+/-0.423 $\chi^2$/NDF: 758.3/47




Right In: 17.574+/-0.957 $\chi^2$/NDF: 546.2/15

Left Out: 15.520+/-1.215 $\chi^2$/NDF:487.1/6

Right Out: 15.283+/-0.934 $\chi^2$/NDF: 730.0/18

Left In: 12.693+/-1.222 $\chi^2$/NDF:296.0/5

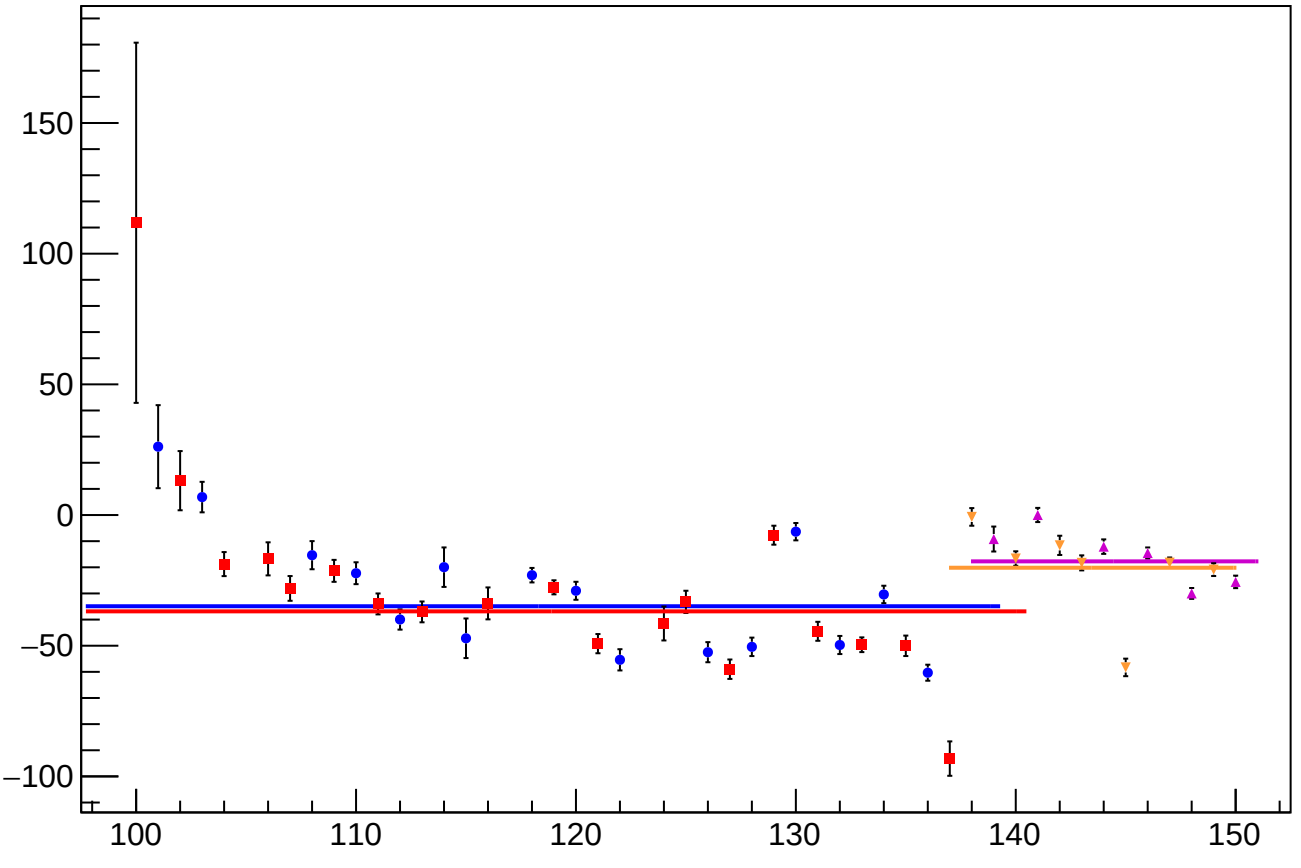
Left: 14.114+/-0.862 $\chi^2$/NDF: 785.8/12

Right: 16.401+/-0.668 $\chi^2$/NDF: 1279.2/34

In: 15.720+/-0.753 $\chi^2$/NDF:852.1/21

Out: 15.371+/-0.740 $\chi^2$/NDF:1217.1/25

All: 15.542+/-0.528 $\chi^2$/NDF: 2069.3/47




Right In: -34.899+/-0.990 $\chi^2$/NDF: 346.6/15

Left Out: -20.164+/-1.042 $\chi^2$/NDF:171.0/6

Right Out: -36.853+/-0.970 $\chi^2$/NDF: 301.4/18

Left In: -17.724+/-1.034 $\chi^2$/NDF:98.0/5

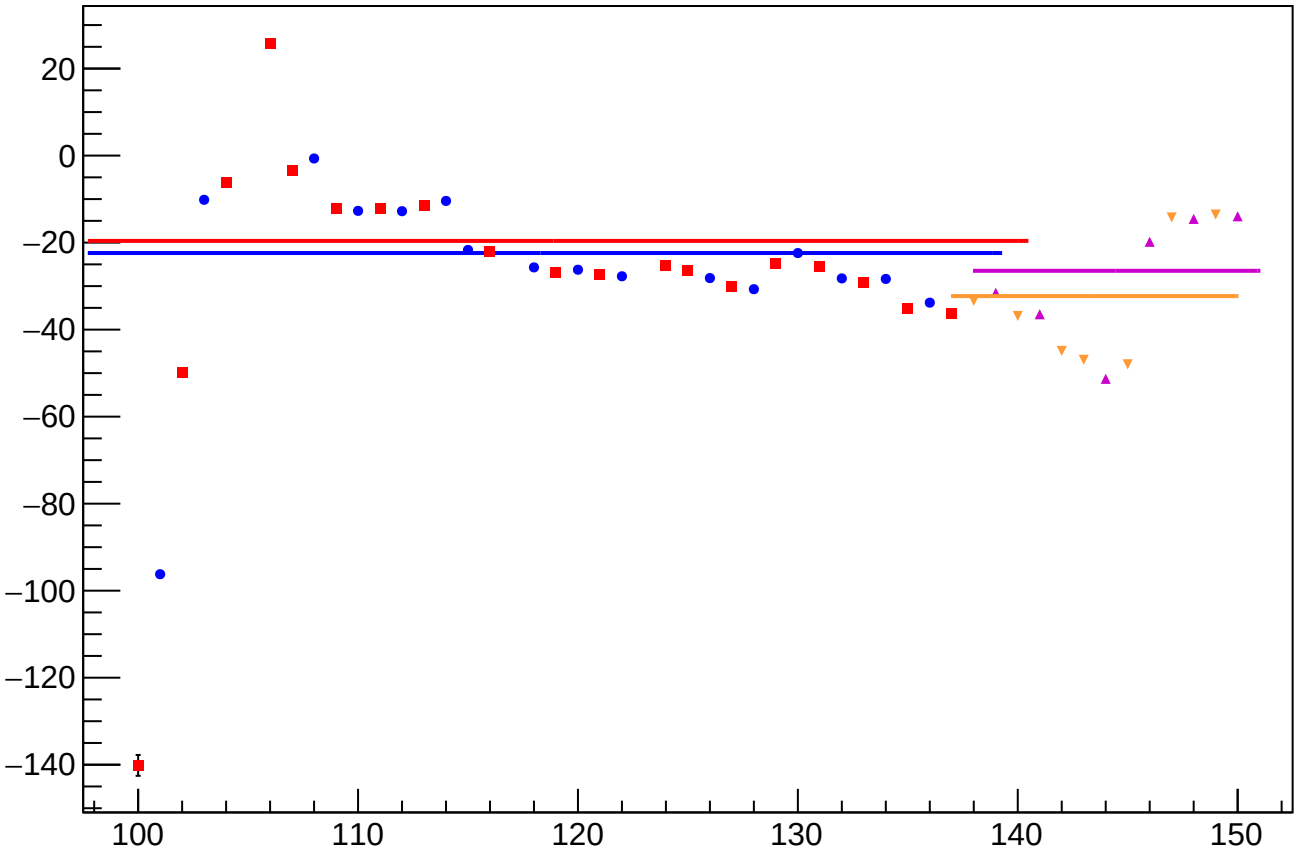
Left: -18.935+/-0.734 $\chi^2$/NDF: 271.8/12

Right: -35.897+/-0.693 $\chi^2$/NDF: 650.0/34

In: -26.680+/-0.715 $\chi^2$/NDF:588.6/21

Out: -29.107+/-0.710 $\chi^2$/NDF:609.9/25

All: -27.903+/-0.504 $\chi^2$/NDF: 1204.3/47




Right In: -22.394+/-0.058 $\chi^2$/NDF: 46519.7/15

Left Out: -32.294+/-0.051 $\chi^2$/NDF:71028.5/6

Right Out: -19.605+/-0.059 $\chi^2$/NDF: 83865.7/18

Left In: -26.481+/-0.049 $\chi^2$/NDF:61034.6/5

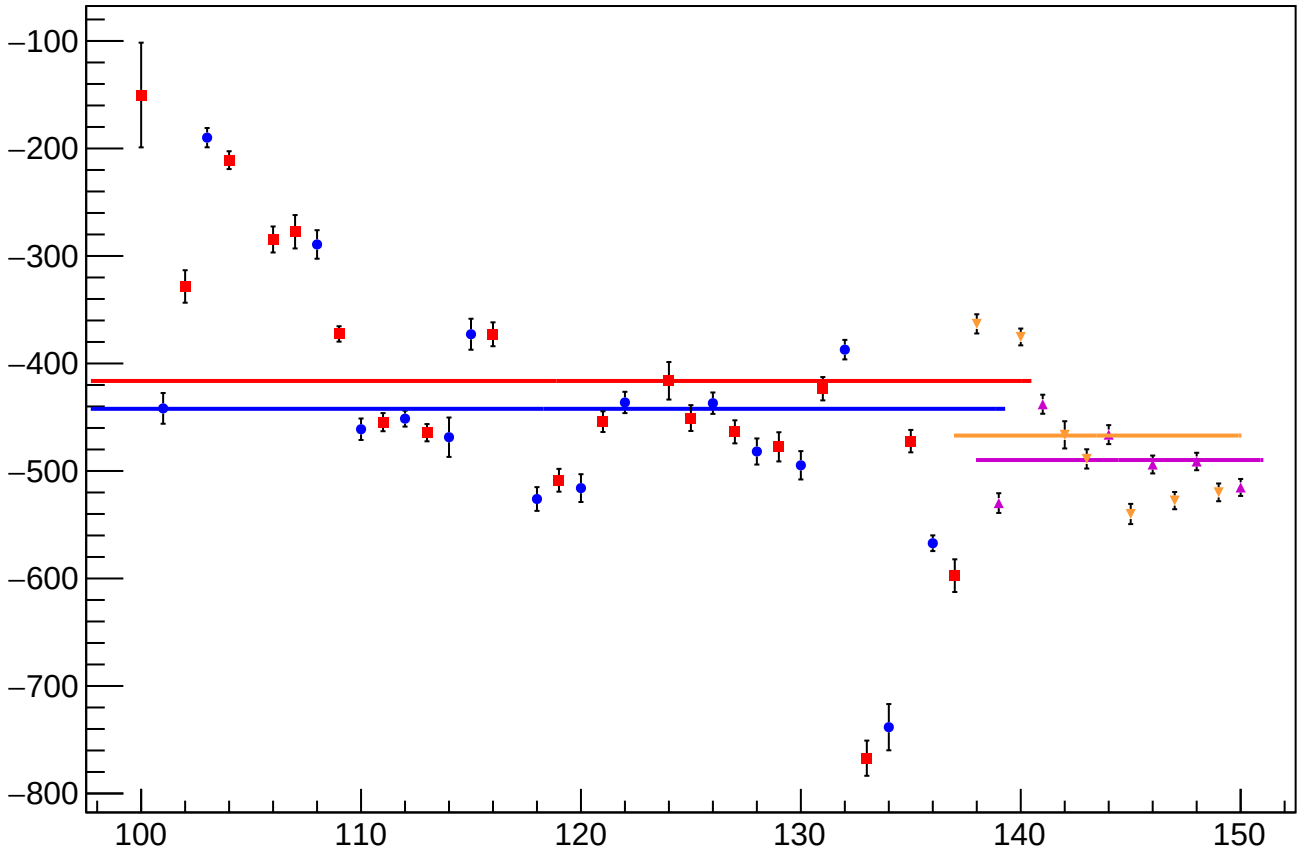
Left: -29.306+/-0.035 $\chi^2$/NDF: 138800.8/12

Right: -21.027+/-0.042 $\chi^2$/NDF: 131507.1/34

In: -24.773+/-0.038 $\chi^2$/NDF:110416.3/21

Out: -26.942+/-0.039 $\chi^2$/NDF:181236.2/25

All: -25.831+/-0.027 $\chi^2$/NDF: 293269.3/47




Right In: -442.182+/-2.682 $\chi^2$/NDF: 1589.1/15

Left Out: -467.053+/-3.352 $\chi^2$/NDF:436.4/6

Right Out: -416.259+/-2.523 $\chi^2$/NDF: 1753.8/18

Left In: -489.807+/-3.468 $\chi^2$/NDF:71.3/5

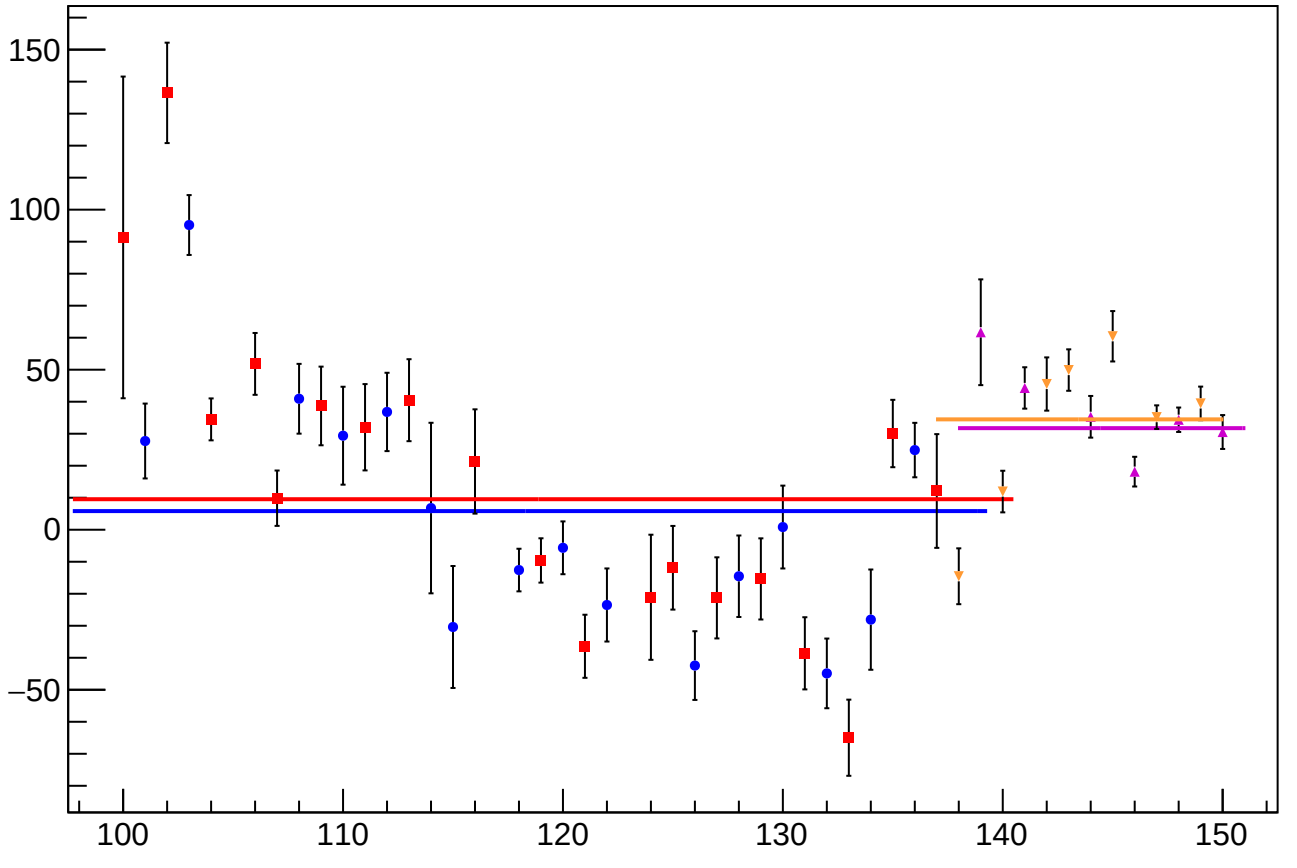
Left: -478.044+/-2.410 $\chi^2$/NDF: 529.9/12

Right: -428.429+/-1.837 $\chi^2$/NDF: 3392.5/34

In: -460.003+/-2.121 $\chi^2$/NDF:1778.4/21

Out: -434.623+/-2.016 $\chi^2$/NDF:2336.8/25

All: -446.664+/-1.461 $\chi^2$/NDF: 4190.4/47




Right In: 5.824+/-2.728 $\chi^2$/NDF: 188.1/15

Left Out: 34.482+/-2.230 $\chi^2$/NDF:62.8/6

Right Out: 9.536+/-2.556 $\chi^2$/NDF: 222.2/18

Left In: 31.736+/-2.225 $\chi^2$/NDF:16.5/5

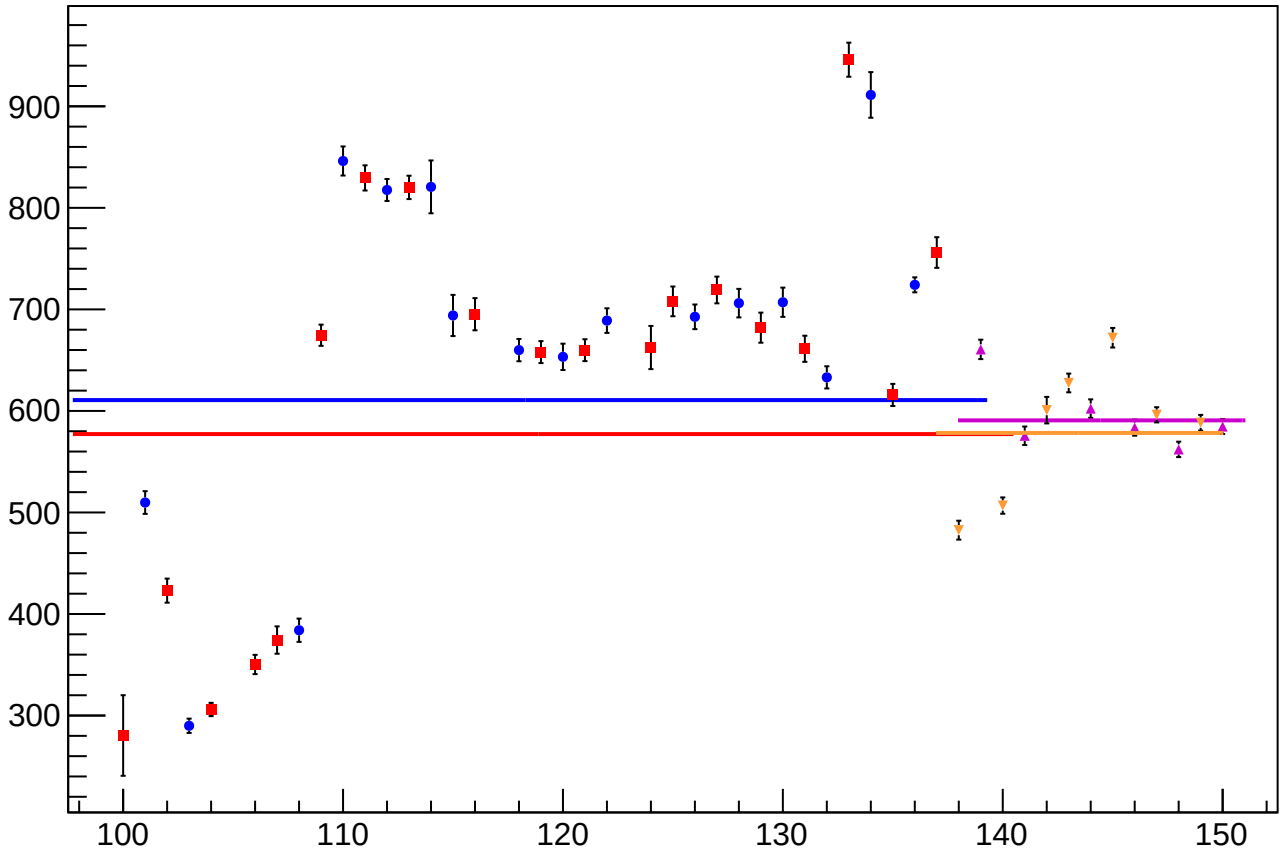
Left: 33.106+/-1.575 $\chi^2$/NDF: 80.0/12

Right: 7.800+/-1.865 $\chi^2$/NDF: 411.3/34

In: 21.384+/-1.724 $\chi^2$/NDF:258.8/21

Out: 23.700+/-1.681 $\chi^2$/NDF:339.1/25

All: 22.572+/-1.204 $\chi^2$/NDF: 598.7/47




Right In: 610.665+/-2.892 $\chi^2$/NDF: 3892.6/15

Left Out: 578.315+/-3.334 $\chi^2$/NDF:318.3/6

Right Out: 577.205+/-2.755 $\chi^2$/NDF: 4800.3/18

Left In: 590.710+/-3.397 $\chi^2$/NDF:73.5/5

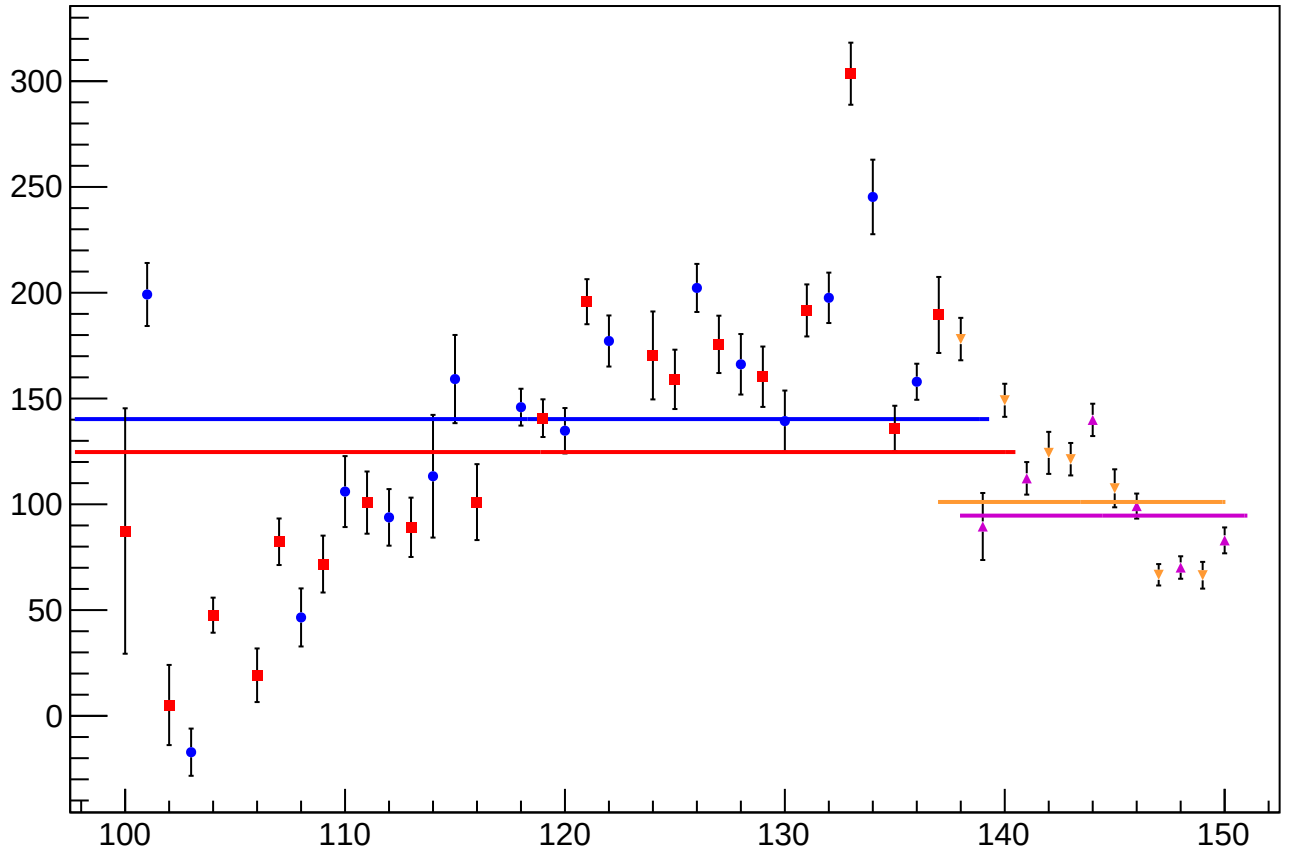
Left: 584.397+/-2.379 $\chi^2$/NDF: 398.6/12

Right: 593.122+/-1.995 $\chi^2$/NDF: 8763.0/34

In: 602.278+/-2.202 $\chi^2$/NDF:3986.1/21

Out: 577.655+/-2.124 $\chi^2$/NDF:5118.7/25

All: 589.520+/-1.529 $\chi^2$/NDF: 9169.5/47




Right In: 140.278+/-3.151 $\chi^2$/NDF: 385.4/15

Left Out: 101.102+/-2.775 $\chi^2$/NDF:185.9/6

Right Out: 124.697+/-2.979 $\chi^2$/NDF: 508.5/18

Left In: 94.651+/-2.788 $\chi^2$/NDF:66.0/5

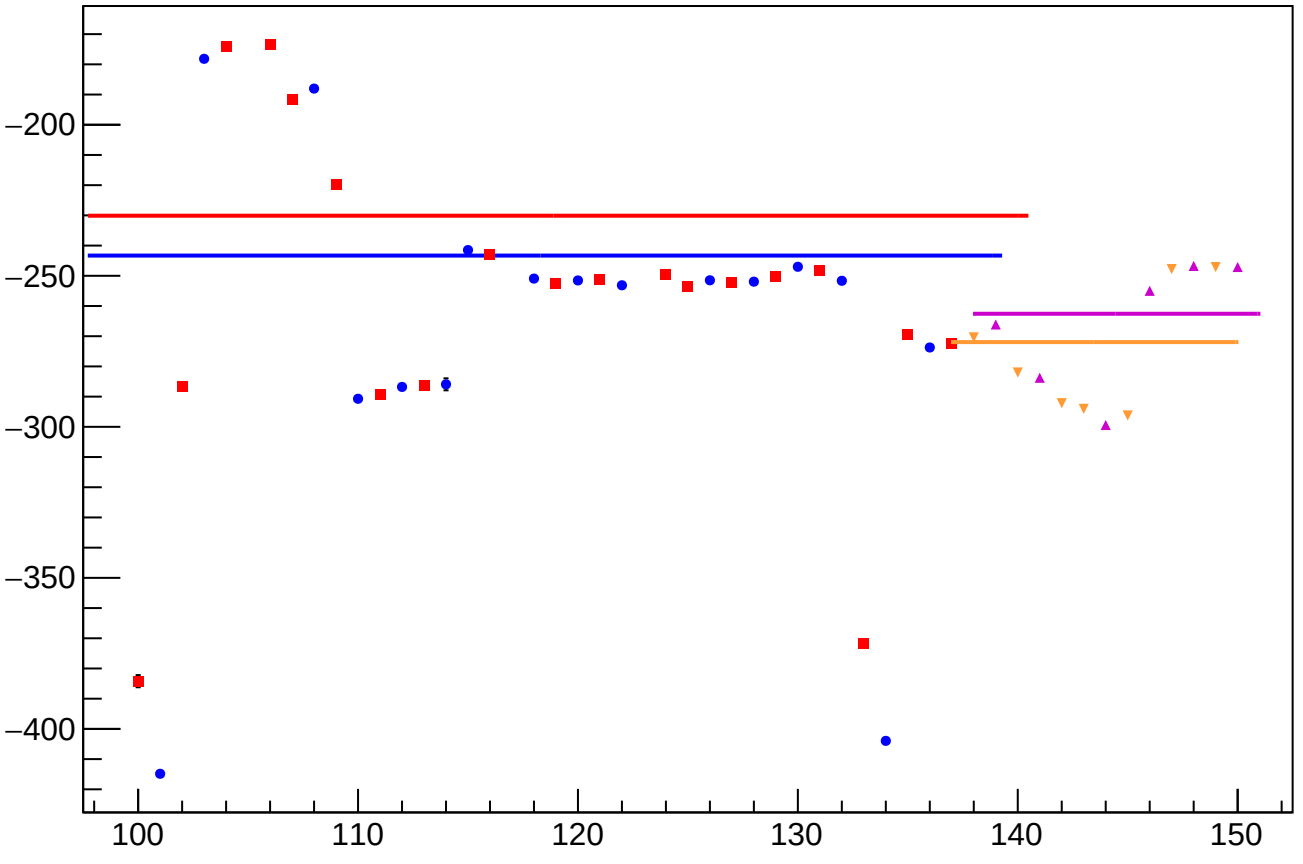
Left: 97.891+/-1.967 $\chi^2$/NDF: 254.6/12

Right: 132.049+/-2.165 $\chi^2$/NDF: 906.8/34

In: 114.680+/-2.088 $\chi^2$/NDF:569.0/21

Out: 112.065+/-2.030 $\chi^2$/NDF:728.1/25

All: 113.336+/-1.456 $\chi^2$/NDF: 1297.9/47




Right In: -243.308+/-0.163 $\chi^2$/NDF: 173487.9/15

Left Out: -271.945+/-0.141 $\chi^2$/NDF:20685.4/6

Right Out: -230.109+/-0.157 $\chi^2$/NDF: 102451.2/18

Left In: -262.568+/-0.139 $\chi^2$/NDF:17349.5/5

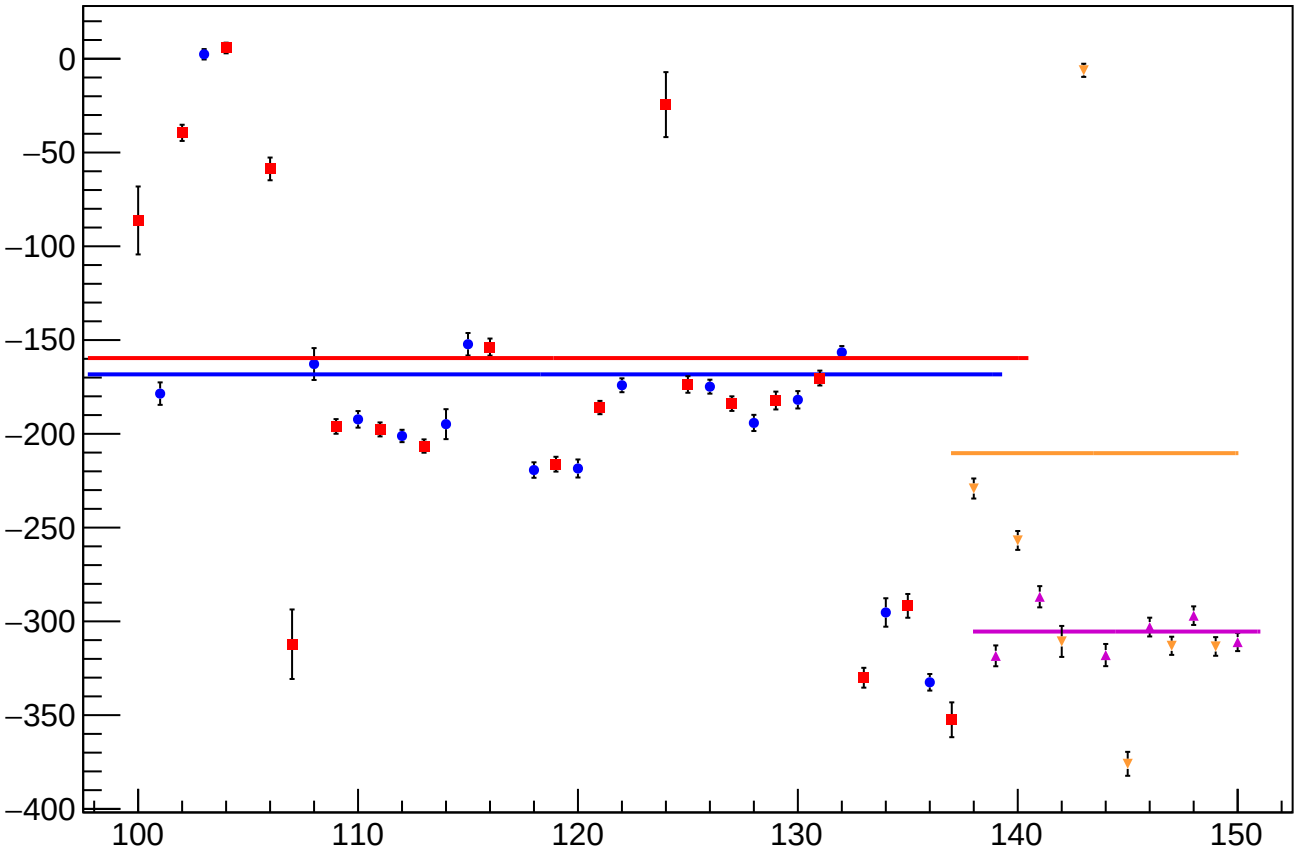
Left: -267.181+/-0.099 $\chi^2$/NDF: 40288.6/12

Right: -236.496+/-0.113 $\chi^2$/NDF: 279343.3/34

In: -254.463+/-0.105 $\chi^2$/NDF:198972.5/21

Out: -253.346+/-0.105 $\chi^2$/NDF:162391.8/25

All: -253.902+/-0.074 $\chi^2$/NDF: 361420.6/47




Right In: -168.291+/-1.076 $\chi^2$/NDF: 5907.6/15

Left Out: -210.305+/-1.897 $\chi^2$/NDF:5181.5/6

Right Out: -159.602+/-1.042 $\chi^2$/NDF: 7197.9/18

Left In: -305.434+/-2.152 $\chi^2$/NDF:25.2/5

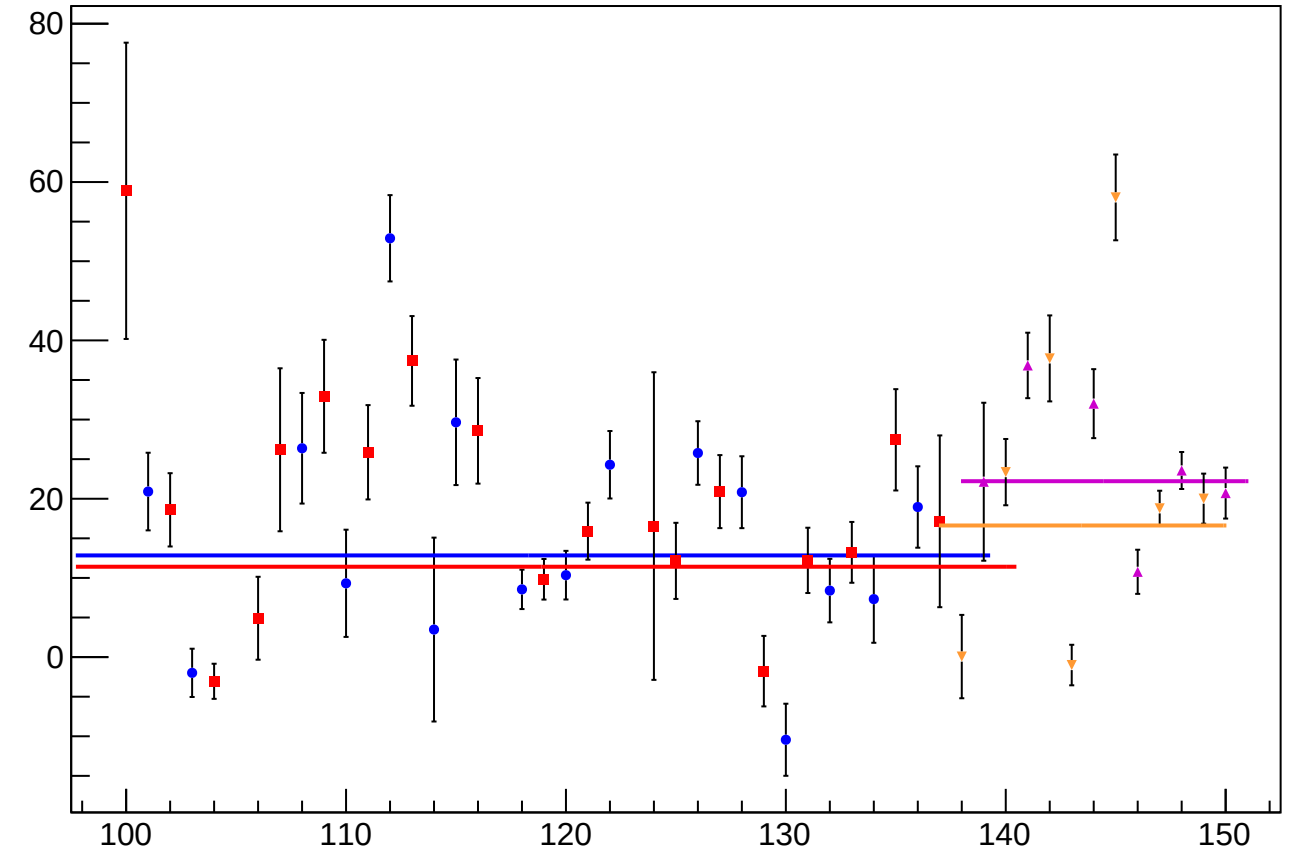
Left: -251.910+/-1.423 $\chi^2$/NDF: 6306.3/12

Right: -163.809+/-0.749 $\chi^2$/NDF: 13139.1/34

In: -195.714+/-0.962 $\chi^2$/NDF:9182.6/21

Out: -171.358+/-0.914 $\chi^2$/NDF:12928.0/25

All: -182.904+/-0.663 $\chi^2$/NDF: 22447.5/47




Right In: 12.842+/-1.076 $\chi^2$/NDF: 143.7/15

Left Out: 16.623+/-1.274 $\chi^2$/NDF:135.6/6

Right Out: 11.414+/-1.035 $\chi^2$/NDF: 119.6/18

Left In: 22.217+/-1.374 $\chi^2$/NDF:35.0/5

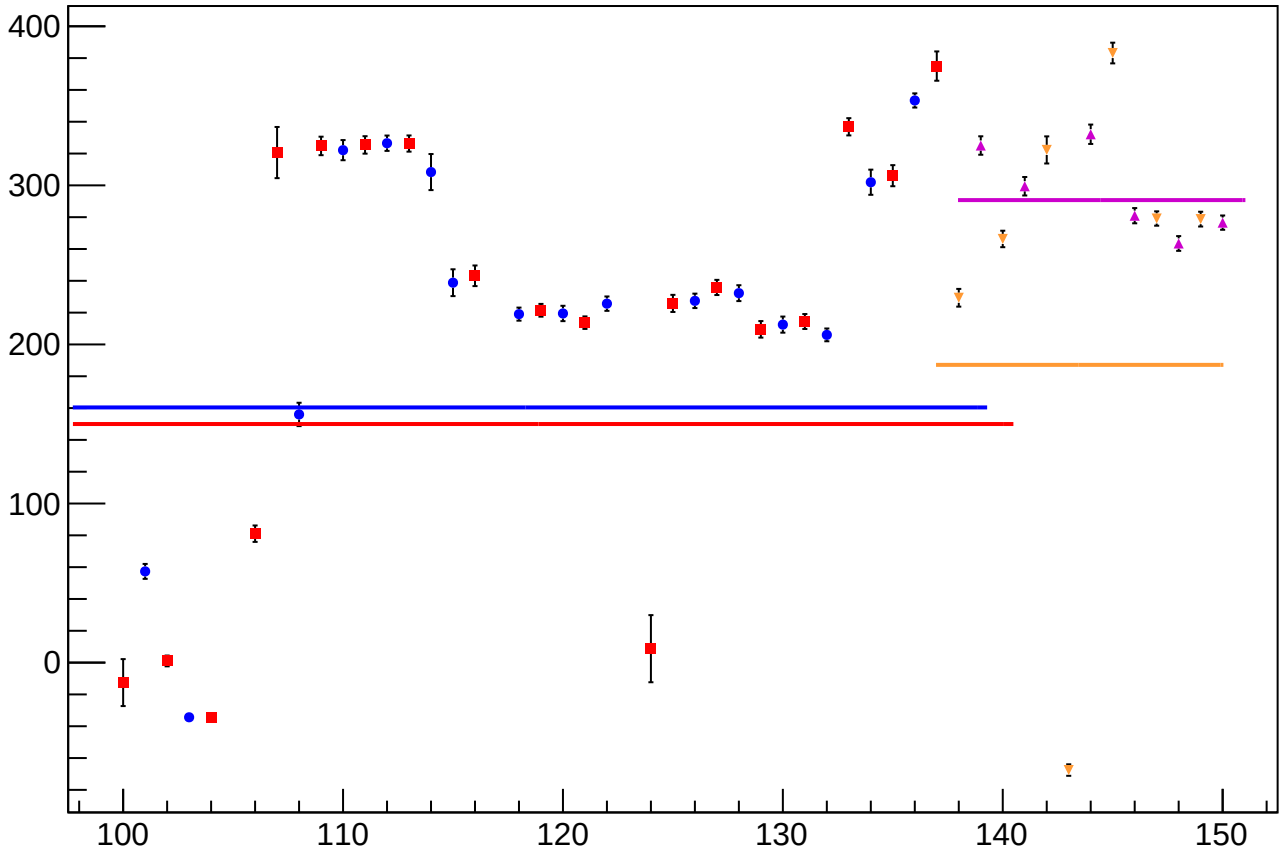
Left: 19.209+/-0.934 $\chi^2$/NDF: 179.5/12

Right: 12.100+/-0.746 $\chi^2$/NDF: 264.2/34

In: 16.408+/-0.847 $\chi^2$/NDF:207.5/21

Out: 13.486+/-0.804 $\chi^2$/NDF:265.3/25

All: 14.869+/-0.583 $\chi^2$/NDF: 479.0/47




Right In: 160.407+/-1.139 $\chi^2$/NDF: 13949.8/15

Left Out: 187.164+/-1.894 $\chi^2$/NDF:7231.3/6

Right Out: 149.974+/-1.107 $\chi^2$/NDF: 16265.2/18

Left In: 290.737+/-2.103 $\chi^2$/NDF:132.1/5

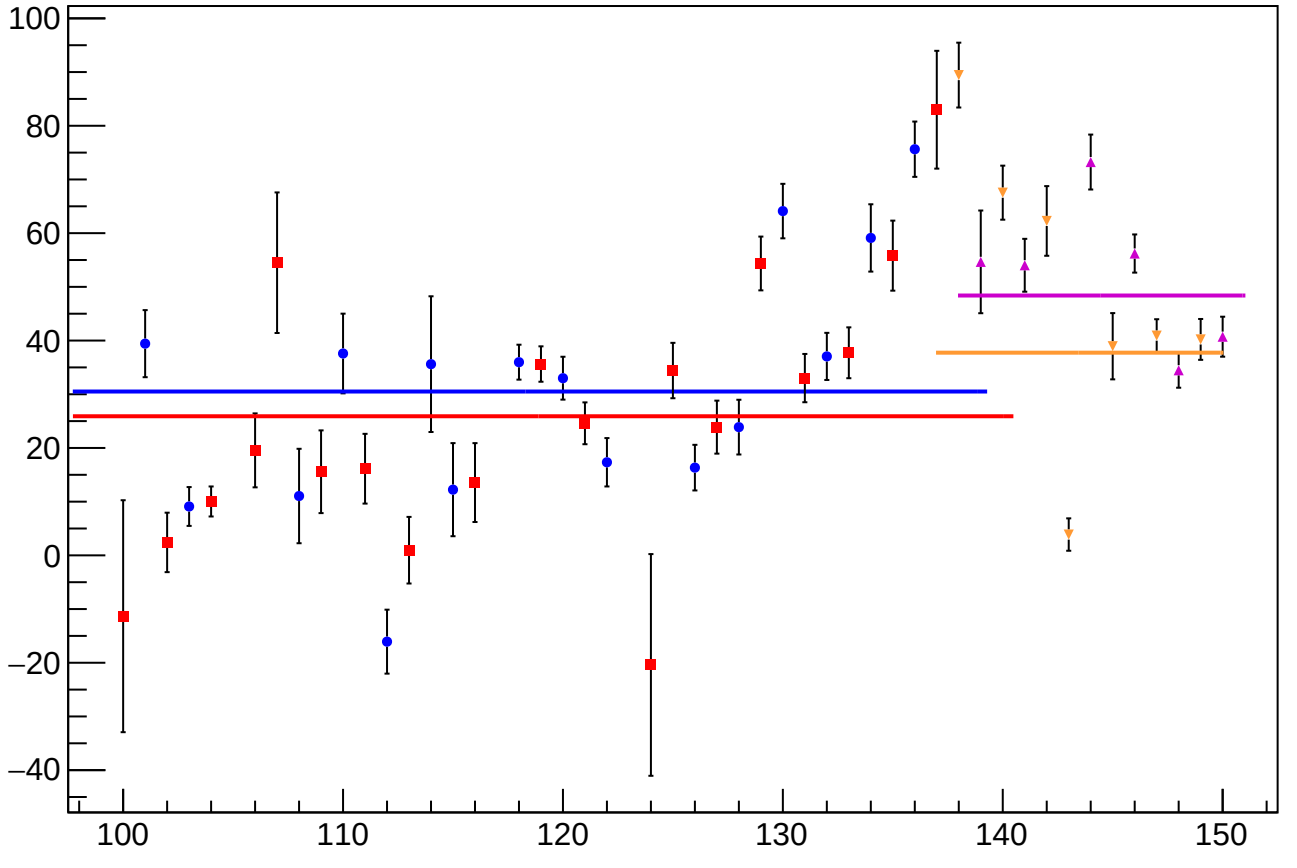
Left: 233.527+/-1.407 $\chi^2$/NDF: 8702.6/12

Right: 155.041+/-0.794 $\chi^2$/NDF: 30258.1/34

In: 189.956+/-1.002 $\chi^2$/NDF:17050.5/21

Out: 159.443+/-0.956 $\chi^2$/NDF:23784.0/25

All: 173.982+/-0.691 $\chi^2$/NDF: 41320.3/47




Right In: 30.510+/-1.255 $\chi^2$/NDF: 276.9/15

Left Out: 37.744+/-1.575 $\chi^2$/NDF:250.3/6

Right Out: 25.903+/-1.213 $\chi^2$/NDF: 187.8/18

Left In: 48.388+/-1.724 $\chi^2$/NDF:52.8/5

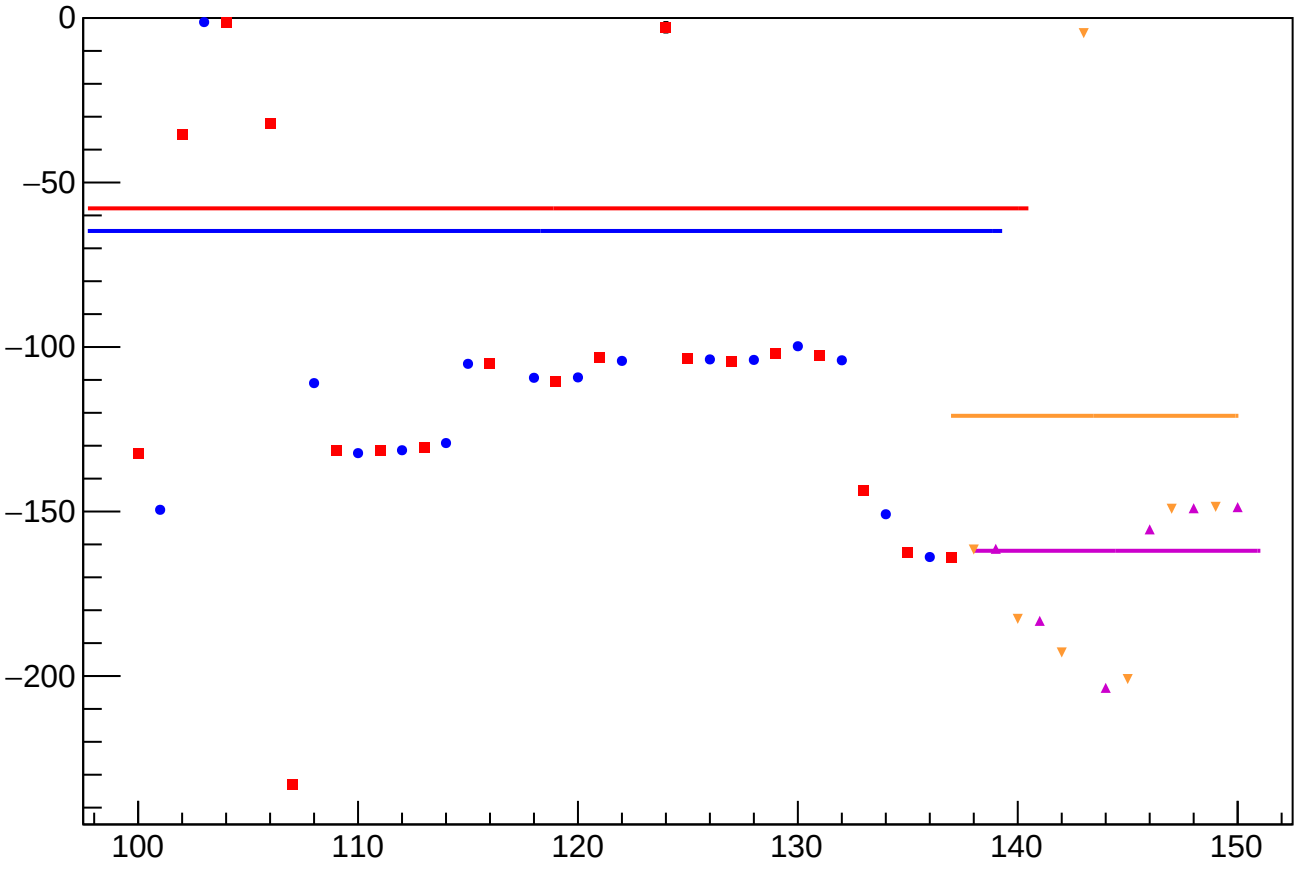
Left: 42.585+/-1.163 $\chi^2$/NDF: 323.8/12

Right: 28.129+/-0.872 $\chi^2$/NDF: 471.7/34

In: 36.698+/-1.014 $\chi^2$/NDF:400.0/21

Out: 30.313+/-0.961 $\chi^2$/NDF:473.5/25

All: 33.332+/-0.698 $\chi^2$/NDF: 894.4/47




Right In: -64.726+/-0.064 $\chi^2$/NDF: 1044441.7/15

Left Out: -120.908+/-0.080 $\chi^2$/NDF:885313.2/6

Right Out: -57.855+/-0.062 $\chi^2$/NDF: 875795.9/18

Left In: -161.934+/-0.086 $\chi^2$/NDF:42297.3/5

Left: -139.968+/-0.058 $\chi^2$/NDF: 1050684.3/12

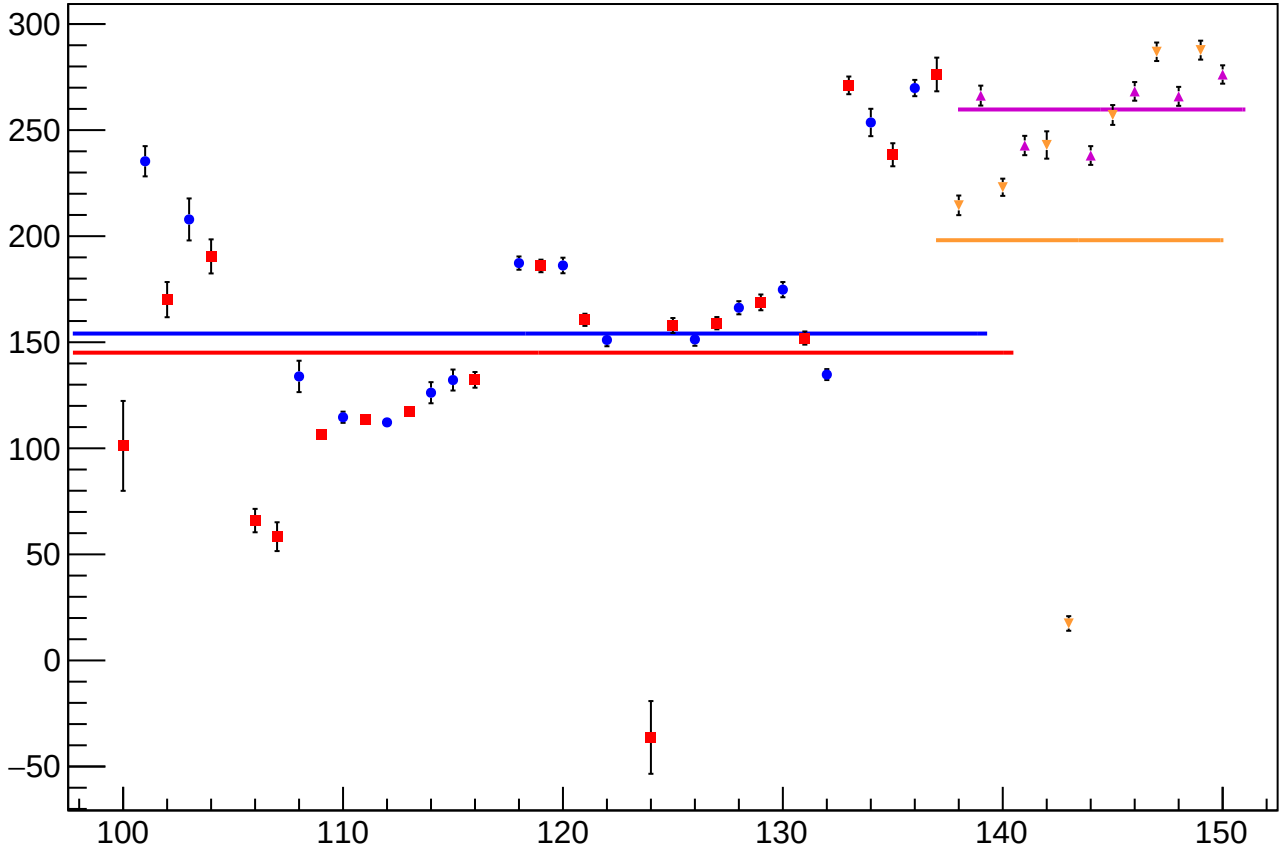
Right: -61.201+/-0.045 $\chi^2$/NDF: 1926190.0/34

In: -99.451+/-0.051 $\chi^2$/NDF:1916230.3/21

Out: -81.694+/-0.049 $\chi^2$/NDF:2150260.3/25

All: -90.195+/-0.035 $\chi^2$/NDF: 4129329.9/47

# reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 154.096+/-0.869 $\chi^2$/NDF: 2281.1/15

Left Out: 198.097+/-1.657 $\chi^2$/NDF:3825.8/6

Right Out: 145.083+/-0.826 $\chi^2$/NDF: 2958.4/18

Left In: 259.719+/-1.826 $\chi^2$/NDF:60.2/5

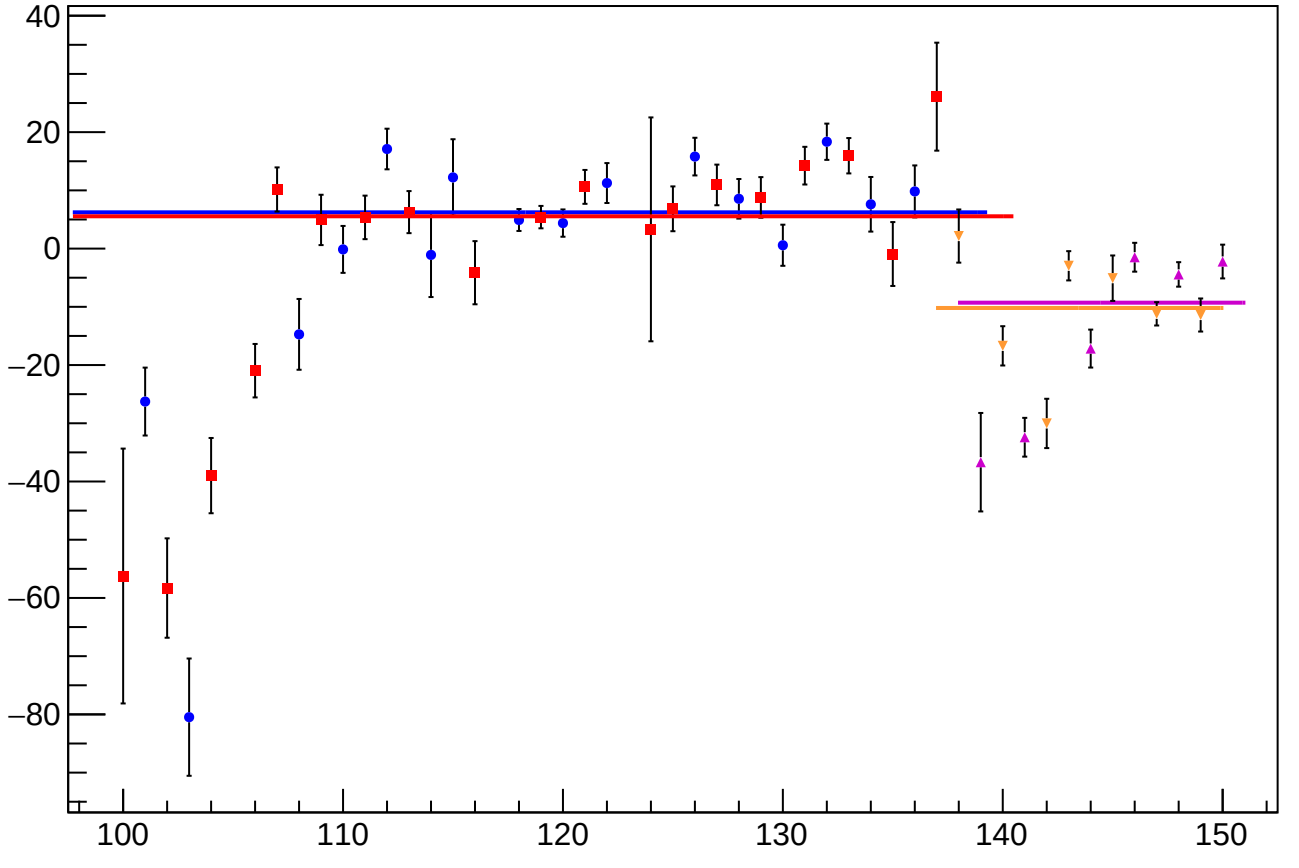
Left: 225.931+/-1.227 $\chi^2$/NDF: 4510.7/12

Right: 149.361+/-0.599 $\chi^2$/NDF: 5296.0/34

In: 173.611+/-0.785 $\chi^2$/NDF:5070.2/21

Out: 155.635+/-0.739 $\chi^2$/NDF:7604.0/25

All: 164.087+/-0.538 $\chi^2$/NDF: 12952.2/47




Right In: 6.229+/-0.890 $\chi^2$/NDF: 162.1/15

Left Out: -10.199+/-1.126 $\chi^2$/NDF:43.4/6

Right Out: 5.548+/-0.889 $\chi^2$/NDF: 181.1/18

Left In: -9.289+/-1.190 $\chi^2$/NDF:85.7/5

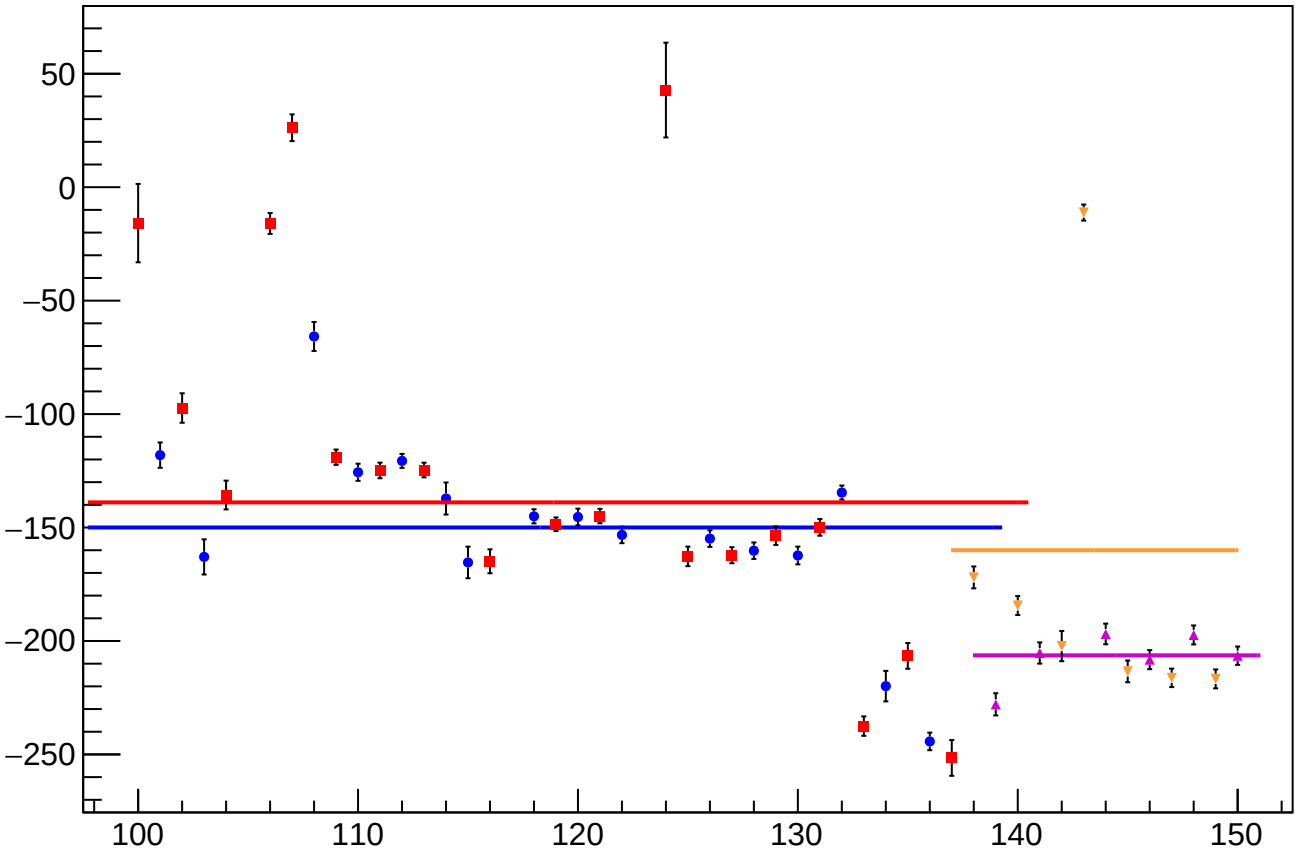
Left: -9.769+/-0.818 $\chi^2$/NDF: 129.4/12

Right: 5.888+/-0.629 $\chi^2$/NDF: 343.5/34

In: 0.663+/-0.713 $\chi^2$/NDF:356.8/21

Out: -0.501+/-0.698 $\chi^2$/NDF:345.0/25

All: 0.069+/-0.499 $\chi^2$/NDF: 703.1/47




Right In: -149.970+/-1.026 $\chi^2$/NDF: 1099.5/15

Left Out: -159.995+/-1.657 $\chi^2$/NDF:2344.6/6

Right Out: -138.912+/-0.993 $\chi^2$/NDF: 2750.9/18

Left In: -206.329+/-1.794 $\chi^2$/NDF:28.6/5

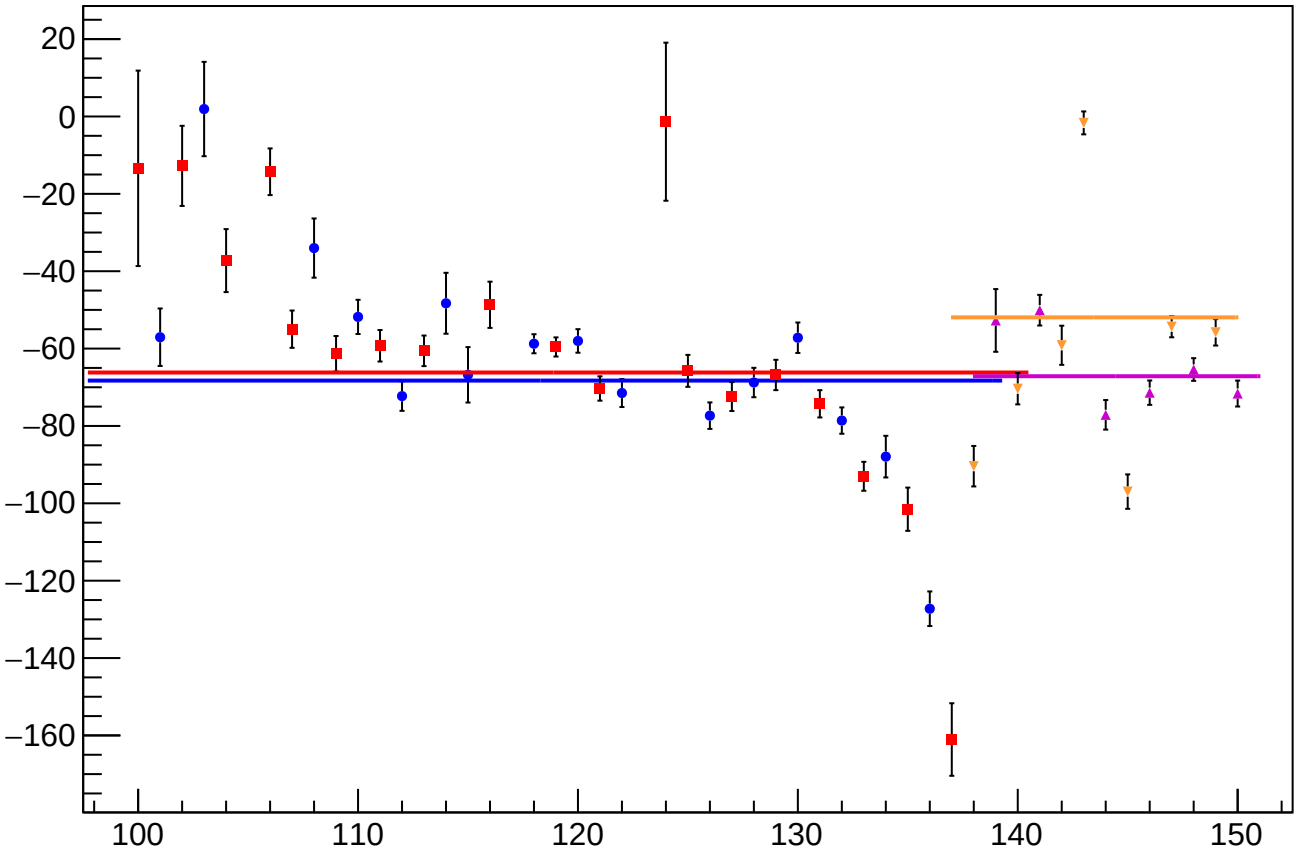
Left: -181.332+/-1.217 $\chi^2$/NDF: 2733.1/12

Right: -144.265+/-0.714 $\chi^2$/NDF: 3910.3/34

In: -163.853+/-0.890 $\chi^2$/NDF:1871.9/21

Out: -144.484+/-0.852 $\chi^2$/NDF:5214.5/25

All: -153.743+/-0.616 $\chi^2$/NDF: 7333.4/47




Right In: -68.272+/-1.033 $\chi^2$/NDF: 315.4/15

Left Out: -51.933+/-1.388 $\chi^2$/NDF:469.4/6

Right Out: -66.186+/-1.024 $\chi^2$/NDF: 358.3/18

Left In: -67.147+/-1.485 $\chi^2$/NDF:32.5/5

Left: -59.031+/-1.014 $\chi^2$/NDF: 557.9/12

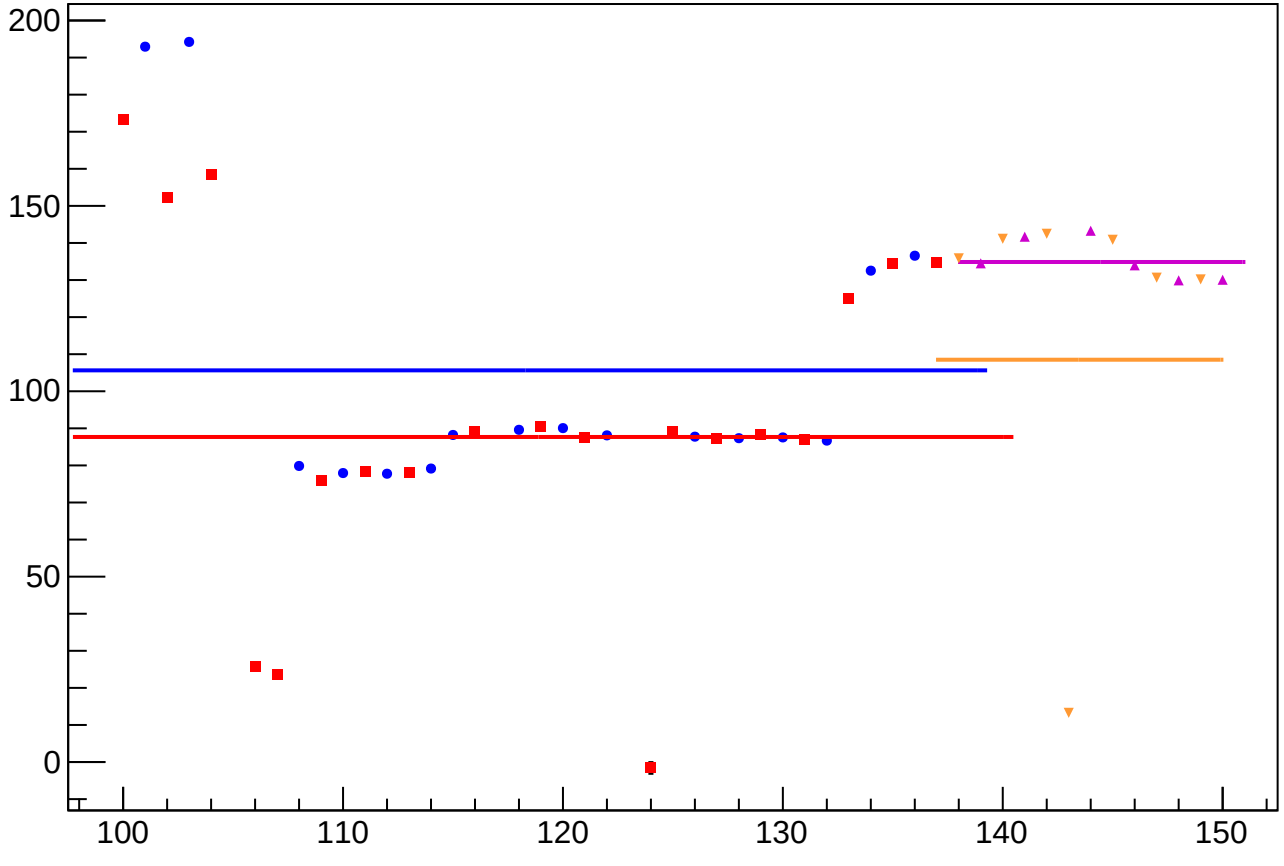
Right: -67.219+/-0.727 $\chi^2$/NDF: 675.8/34

In: -67.905+/-0.848 $\chi^2$/NDF:348.3/21

Out: -61.165+/-0.824 $\chi^2$/NDF:896.0/25

All: -64.438+/-0.591 $\chi^2$/NDF: 1276.7/47

# reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 105.640+/-0.071 $\chi^2$/NDF: 239614.1/15

Left Out: 108.509+/-0.070 $\chi^2$/NDF:544699.0/6

Right Out: 87.673+/-0.066 $\chi^2$/NDF: 374460.7/18

Left In: 134.867+/-0.073 $\chi^2$/NDF:4721.7/5

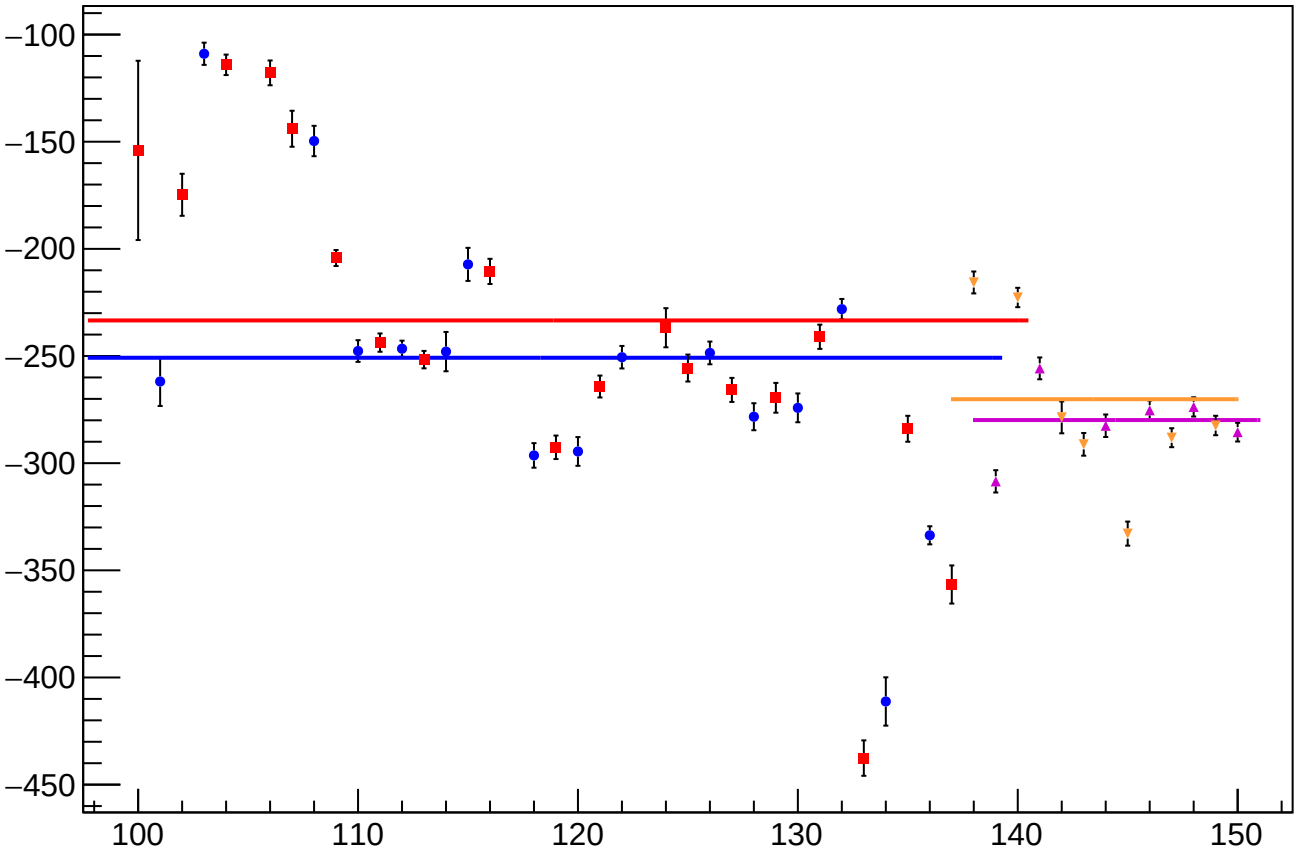
Left: 121.042+/-0.050 $\chi^2$/NDF: 617450.7/12

Right: 95.972+/-0.048 $\chi^2$/NDF: 648694.2/34

In: 119.775+/-0.051 $\chi^2$/NDF:326682.5/21

Out: 97.467+/-0.048 $\chi^2$/NDF:966541.4/25

All: 107.916+/-0.035 $\chi^2$/NDF: 1395346.1/47




Right In: -250.812+/-1.438 $\chi^2$/NDF: 1735.7/15

Left Out: -270.159+/-1.915 $\chi^2$/NDF:389.6/6

Right Out: -233.396+/-1.333 $\chi^2$/NDF: 2378.5/18

Left In: -279.878+/-1.957 $\chi^2$/NDF:57.4/5

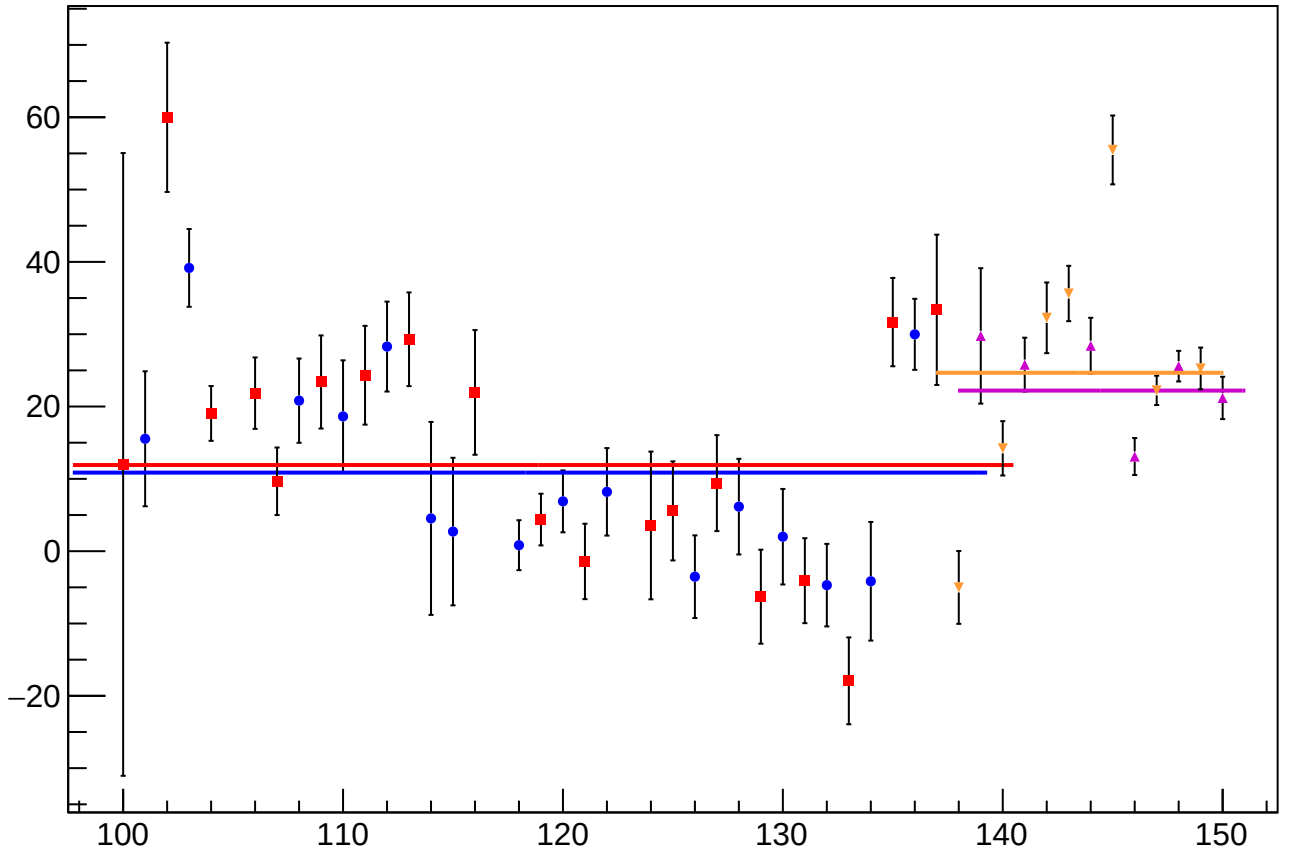
Left: -274.914+/-1.369 $\chi^2$/NDF: 459.6/12

Right: -241.445+/-0.978 $\chi^2$/NDF: 4193.1/34

In: -261.006+/-1.159 $\chi^2$/NDF:1936.3/21

Out: -245.395+/-1.094 $\chi^2$/NDF:3016.3/25

All: -252.753+/-0.796 $\chi^2$/NDF: 5048.5/47




Right In: 10.864+/-1.471 $\chi^2$/NDF: 84.7/15

Left Out: 24.664+/-1.262 $\chi^2$/NDF:96.5/6

Right Out: 11.912+/-1.368 $\chi^2$/NDF: 111.9/18

Left In: 22.204+/-1.246 $\chi^2$/NDF:19.6/5

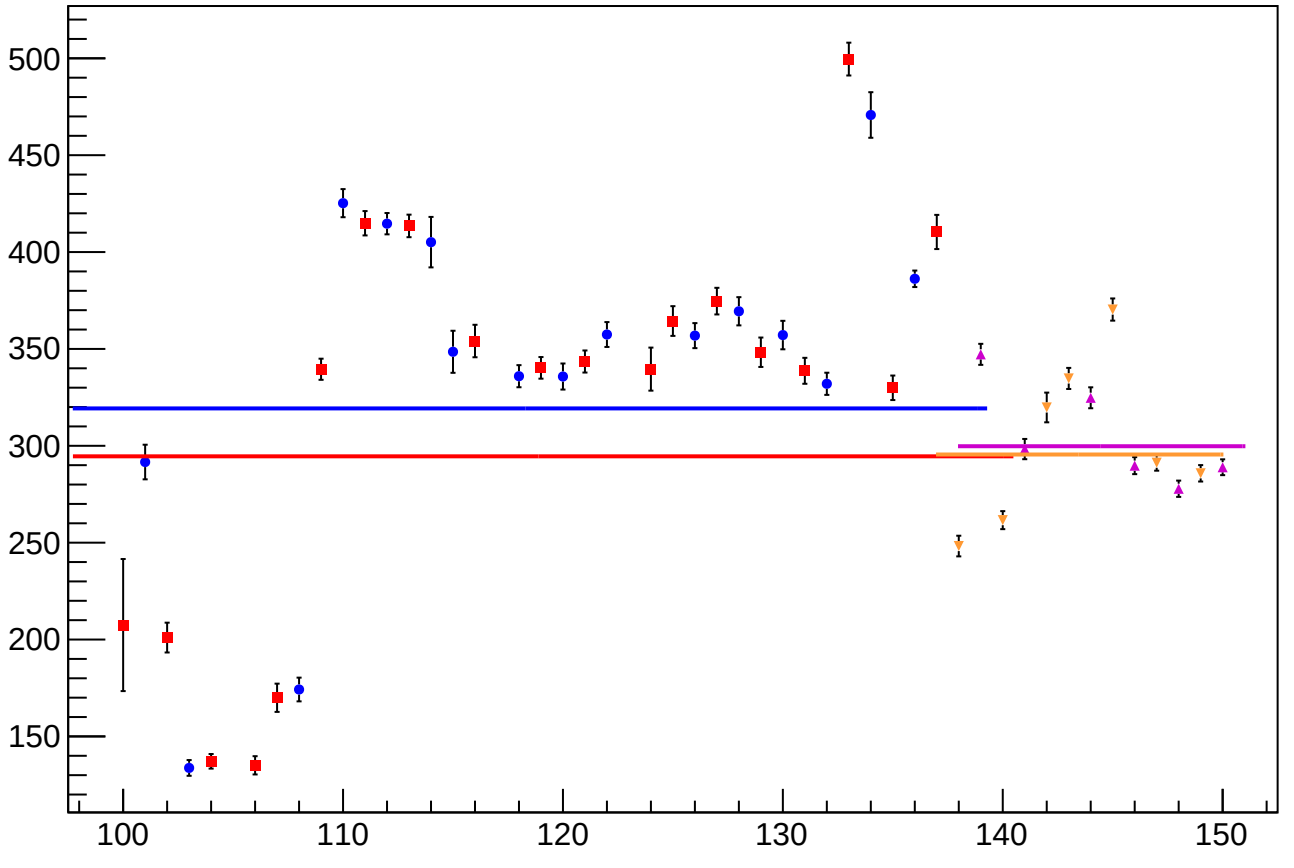
Left: 23.419+/-0.887 $\chi^2$/NDF: 117.9/12

Right: 11.426+/-1.001 $\chi^2$/NDF: 196.9/34

In: 17.463+/-0.951 $\chi^2$/NDF:138.8/21

Out: 18.798+/-0.928 $\chi^2$/NDF:255.3/25

All: 18.147+/-0.664 $\chi^2$/NDF: 395.1/47




Right In: 319.293+/-1.586 $\chi^2$/NDF: 3792.9/15

Left Out: 295.504+/-1.899 $\chi^2$/NDF:370.8/6

Right Out: 294.567+/-1.481 $\chi^2$/NDF: 5503.2/18

Left In: 299.780+/-1.913 $\chi^2$/NDF:137.4/5

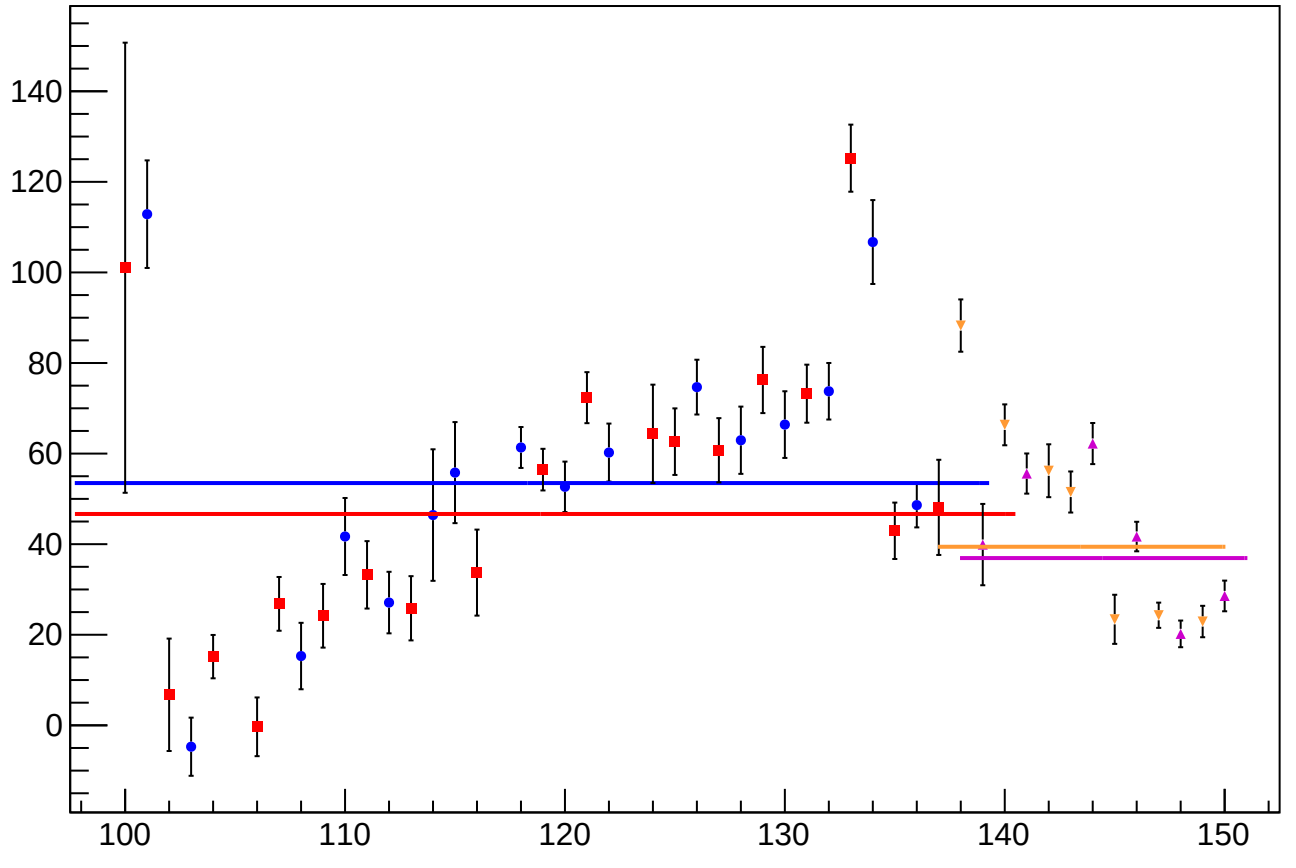
Left: 297.627+/-1.348 $\chi^2$/NDF: 510.7/12

Right: 306.088+/-1.083 $\chi^2$/NDF: 9425.9/34

In: 311.342+/-1.221 $\chi^2$/NDF:3992.0/21

Out: 294.922+/-1.168 $\chi^2$/NDF:5874.1/25

All: 302.769+/-0.844 $\chi^2$/NDF: 9960.6/47




Right In: 53.494+/-1.699 $\chi^2$/NDF: 217.2/15

Left Out: 39.428+/-1.575 $\chi^2$/NDF:183.3/6

Right Out: 46.666+/-1.593 $\chi^2$/NDF: 325.6/18

Left In: 36.932+/-1.564 $\chi^2$/NDF:89.4/5

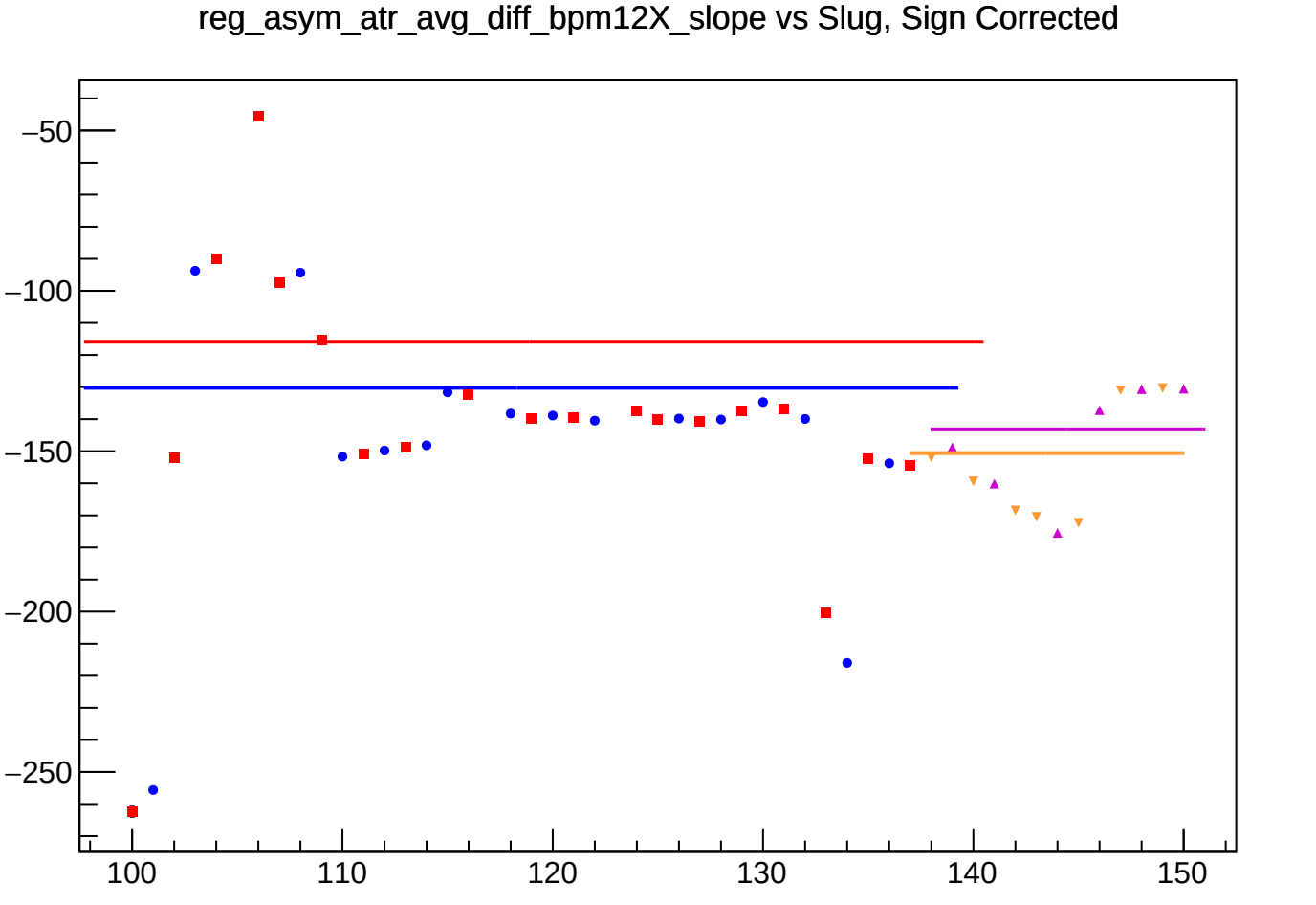
Left: 38.172+/-1.110 $\chi^2$/NDF: 274.0/12

Right: 49.861+/-1.162 $\chi^2$/NDF: 551.4/34

In: 44.532+/-1.151 $\chi^2$/NDF:358.1/21

Out: 43.006+/-1.120 $\chi^2$/NDF:519.4/25

All: 43.748+/-0.803 $\chi^2$/NDF: 878.4/47




Right In: -130.236+/-0.091 $\chi^2$/NDF: 174208.5/15

Left Out: -150.592+/-0.080 $\chi^2$/NDF:46331.9/6

Right Out: -115.865+/-0.086 $\chi^2$/NDF: 205899.4/18

Left In: -143.202+/-0.078 $\chi^2$/NDF:37133.5/5

Left: -146.790+/-0.056 $\chi^2$/NDF: 87829.5/12

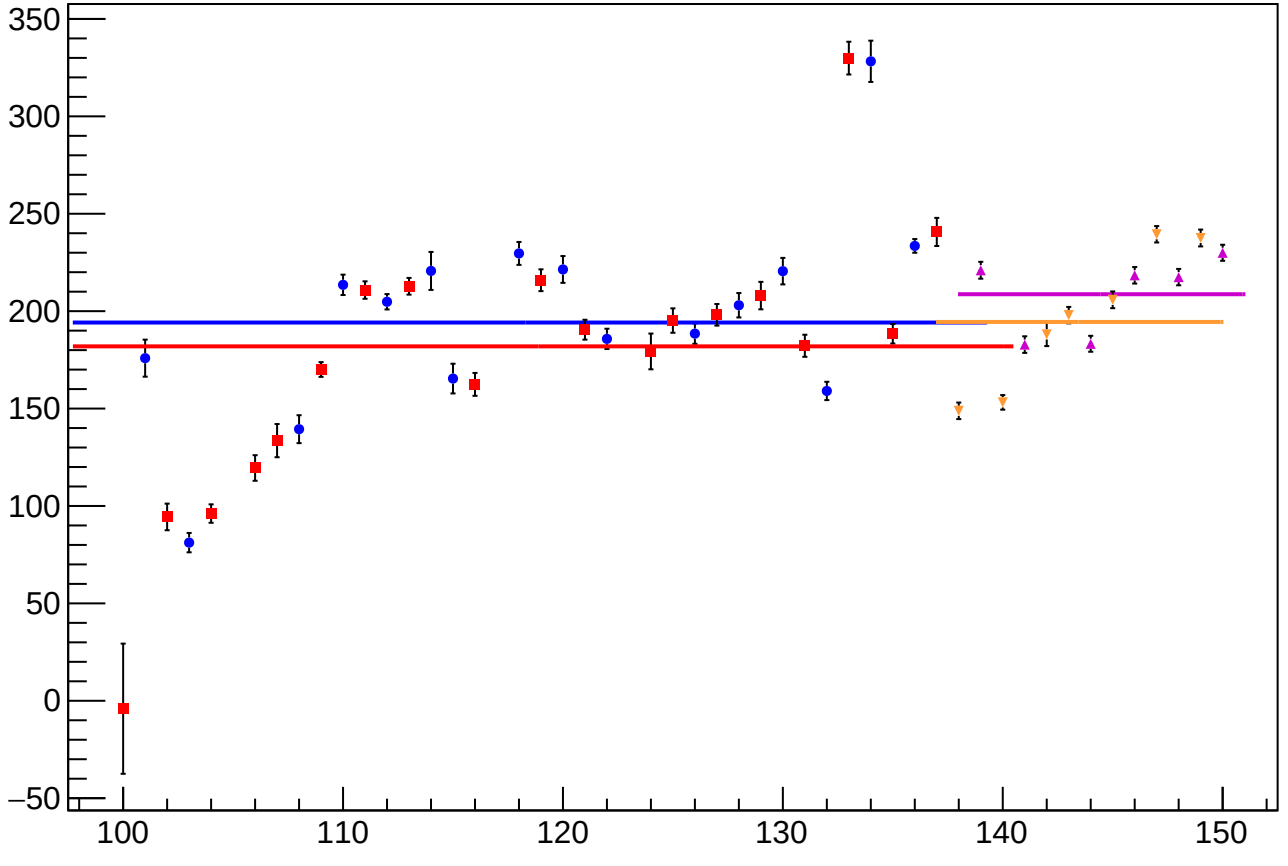
Right: -122.615+/-0.062 $\chi^2$/NDF: 393311.6/34

In: -137.721+/-0.059 $\chi^2$/NDF:223040.7/21

Out: -134.373+/-0.059 $\chi^2$/NDF:339705.6/25

All: -136.029+/-0.042 $\chi^2$/NDF: 564361.6/47

# reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 194.164+/-1.407 $\chi^2$/NDF: 1035.2/15

Left Out: 194.464+/-1.634 $\chi^2$/NDF:459.4/6

Right Out: 181.928+/-1.322 $\chi^2$/NDF: 1204.8/18

Left In: 208.690+/-1.716 $\chi^2$/NDF:120.1/5

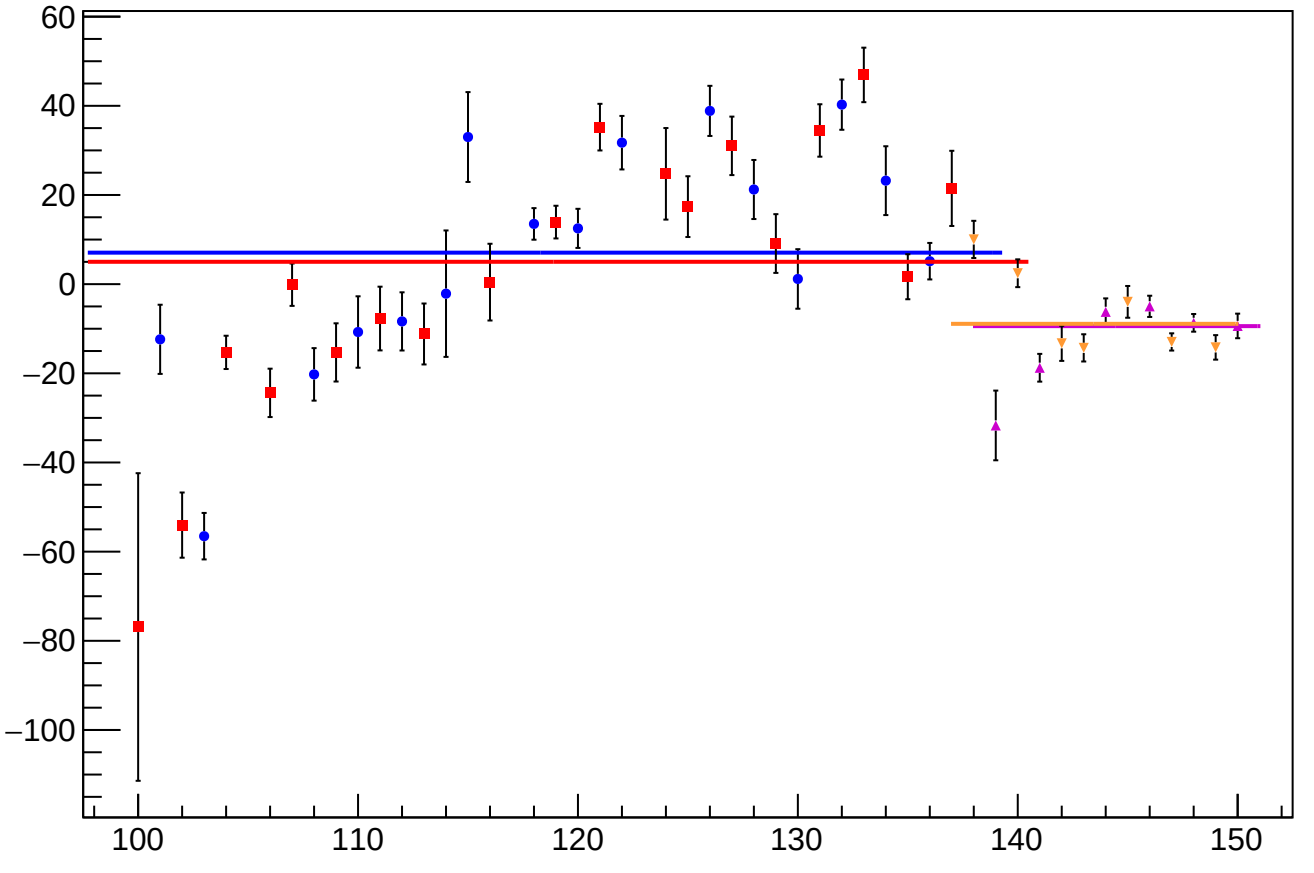
Left: 201.226+/-1.183 $\chi^2$/NDF: 615.5/12

Right: 187.666+/-0.963 $\chi^2$/NDF: 2280.2/34

In: 200.001+/-1.088 $\chi^2$/NDF:1198.1/21

Out: 186.889+/-1.028 $\chi^2$/NDF:1699.8/25

All: 193.071+/-0.747 $\chi^2$/NDF: 2974.7/47




Right In: 7.066+/-1.443 $\chi^2$/NDF: 292.6/15

Left Out: -8.902+/-1.111 $\chi^2$/NDF:48.3/6

Right Out: 5.015+/-1.355 $\chi^2$/NDF: 288.5/18

Left In: -9.417+/-1.124 $\chi^2$/NDF:21.9/5

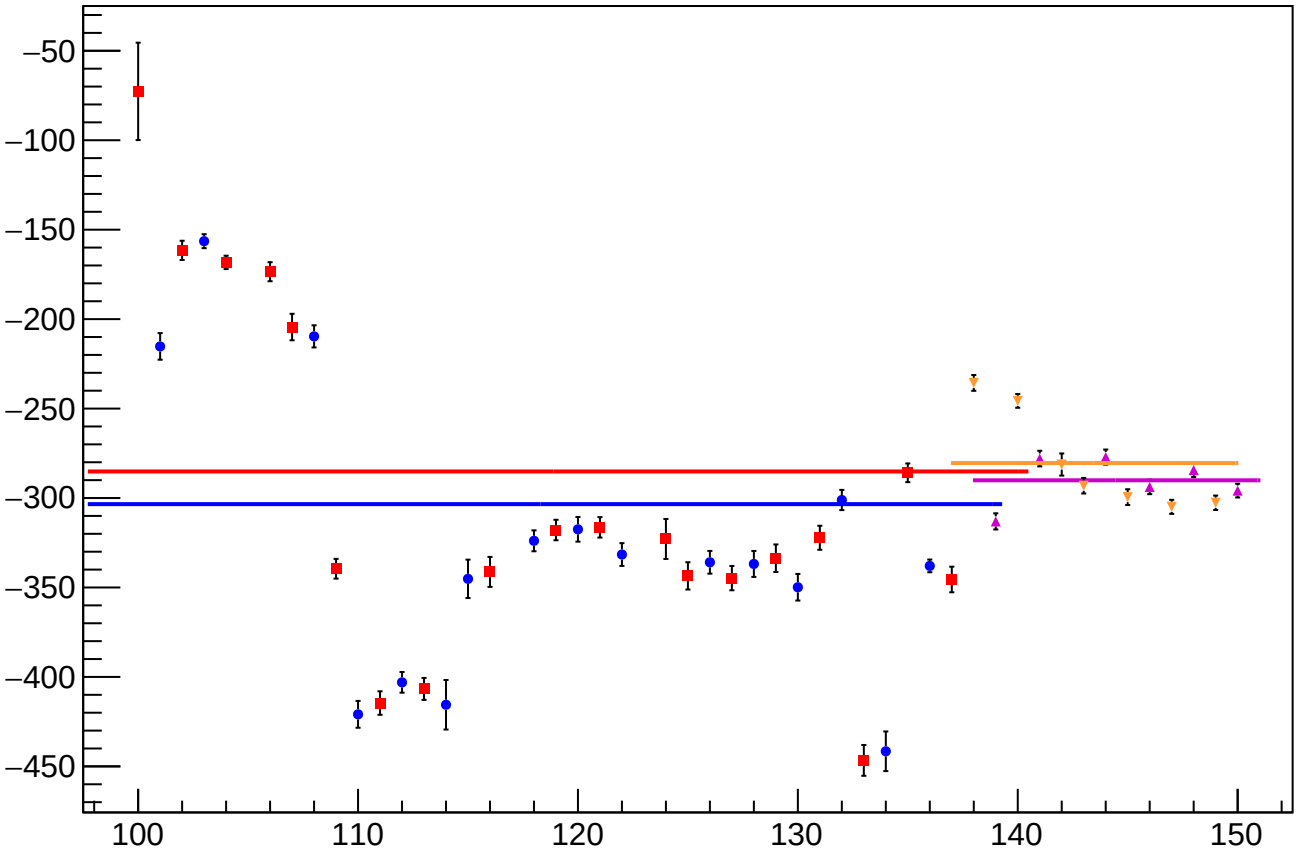
Left: -9.156+/-0.790 $\chi^2$/NDF: 70.2/12

Right: 5.976+/-0.988 $\chi^2$/NDF: 582.2/34

In: -3.194+/-0.886 $\chi^2$/NDF:395.7/21

Out: -3.308+/-0.859 $\chi^2$/NDF:399.9/25

All: -3.253+/-0.617 $\chi^2$/NDF: 795.6/47




Right In: -303.408+/-1.530 $\chi^2$/NDF: 2785.5/15

Left Out: -280.427+/-1.633 $\chi^2$/NDF:280.0/6

Right Out: -285.148+/-1.451 $\chi^2$/NDF: 3754.8/18

Left In: -290.086+/-1.688 $\chi^2$/NDF:48.3/5

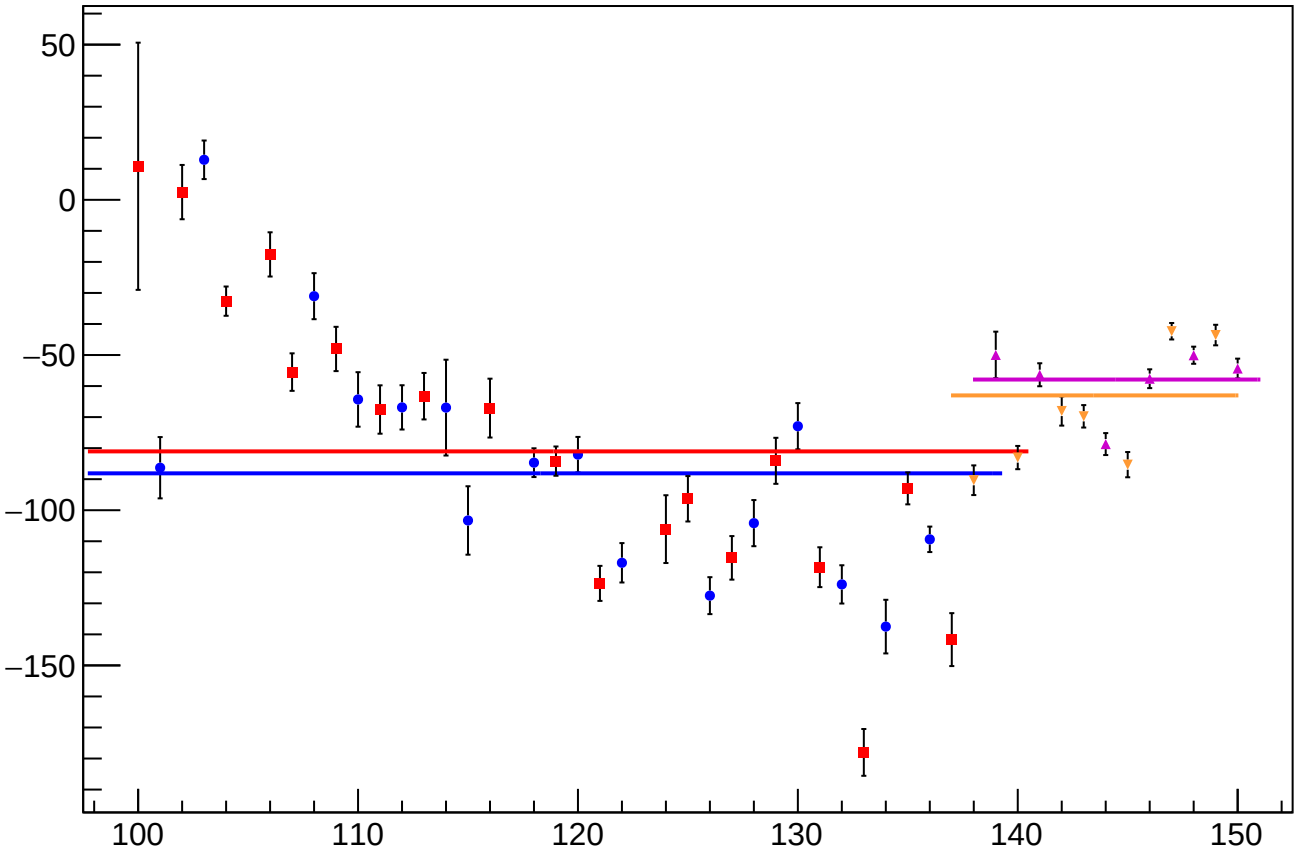
Left: -285.094+/-1.174 $\chi^2$/NDF: 345.3/12

Right: -293.794+/-1.053 $\chi^2$/NDF: 6615.3/34

In: -297.401+/-1.134 $\chi^2$/NDF:2868.0/21

Out: -283.065+/-1.085 $\chi^2$/NDF:4039.5/25

All: -289.915+/-0.784 $\chi^2$/NDF: 6991.0/47




Right In: -88.119+/-1.655 $\chi^2$/NDF: 511.9/15

Left Out: -63.011+/-1.373 $\chi^2$/NDF:191.2/6

Right Out: -81.046+/-1.569 $\chi^2$/NDF: 677.5/18

Left In: -57.900+/-1.401 $\chi^2$/NDF:45.1/5

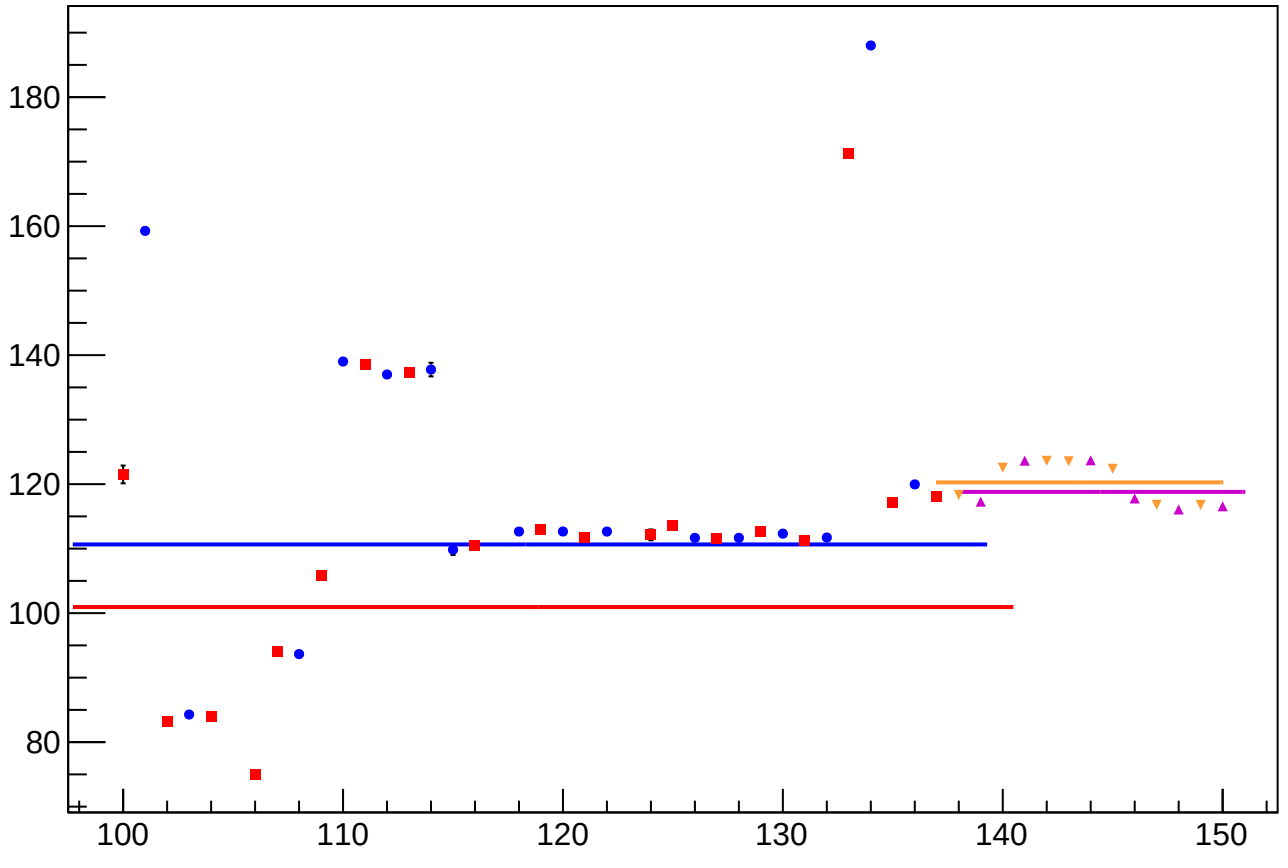
Left: -60.507+/-0.981 $\chi^2$/NDF: 243.1/12

Right: -84.394+/-1.139 $\chi^2$/NDF: 1199.1/34

In: -70.516+/-1.069 $\chi^2$/NDF:751.3/21

Out: -70.833+/-1.033 $\chi^2$/NDF:943.6/25

All: -70.680+/-0.743 $\chi^2$/NDF: 1694.9/47




Right In: 110.651+/-0.086 $\chi^2$/NDF: 83521.8/15

Left Out: 120.277+/-0.069 $\chi^2$/NDF:1762.5/6

Right Out: 100.949+/-0.081 $\chi^2$/NDF: 62002.4/18

Left In: 118.798+/-0.069 $\chi^2$/NDF:2030.0/5

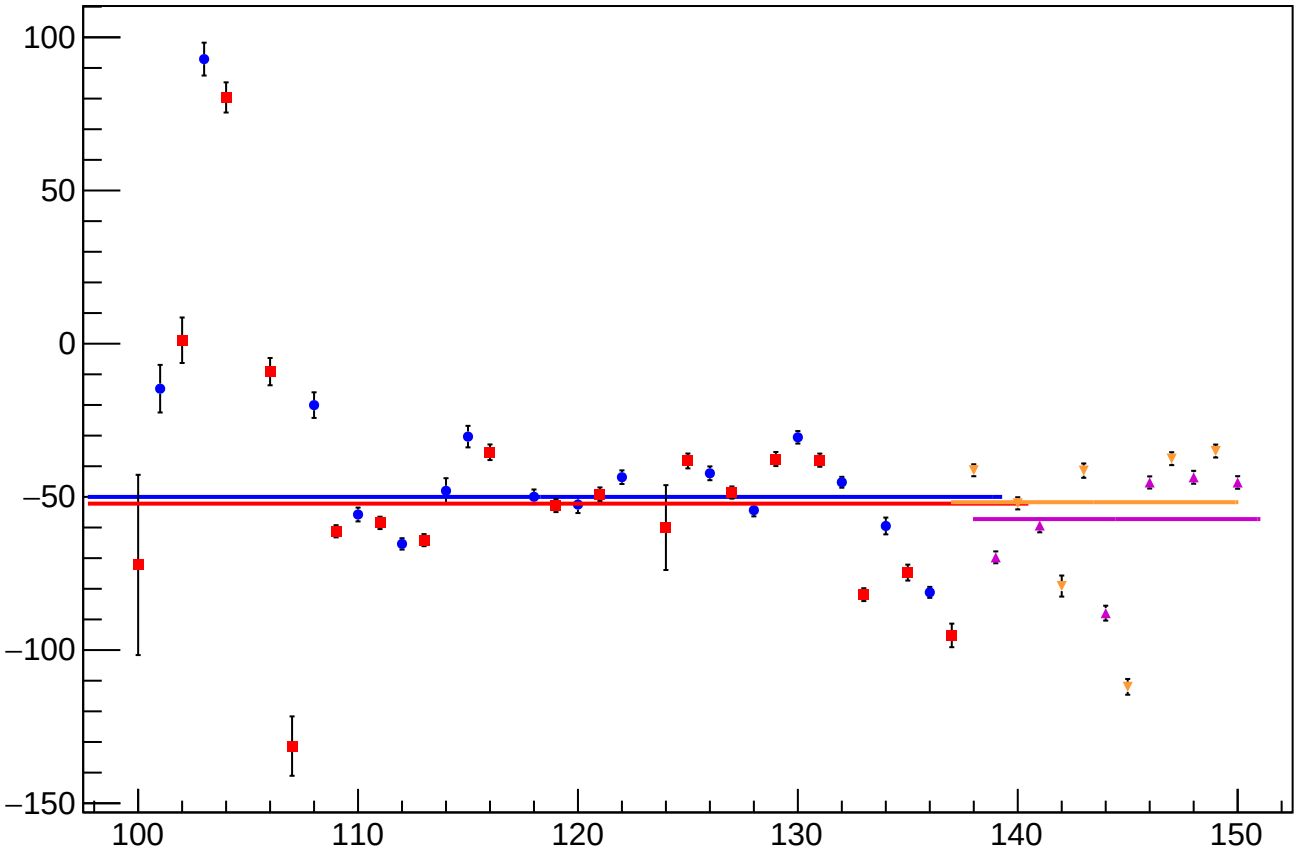
Left: 119.538+/-0.049 $\chi^2$/NDF: 4023.6/12

Right: 105.518+/-0.059 $\chi^2$/NDF: 152285.6/34

In: 115.610+/-0.054 $\chi^2$/NDF:91037.7/21

Out: 112.184+/-0.052 $\chi^2$/NDF:96885.6/25

All: 113.856+/-0.037 $\chi^2$/NDF: 190008.8/47




Right In: -50.008+/-0.610 $\chi^2$/NDF: 1327.4/15

Left Out: -51.739+/-0.851 $\chi^2$/NDF:767.5/6

Right Out: -52.207+/-0.605 $\chi^2$/NDF: 1570.3/18

Left In: -57.246+/-0.861 $\chi^2$/NDF:313.4/5

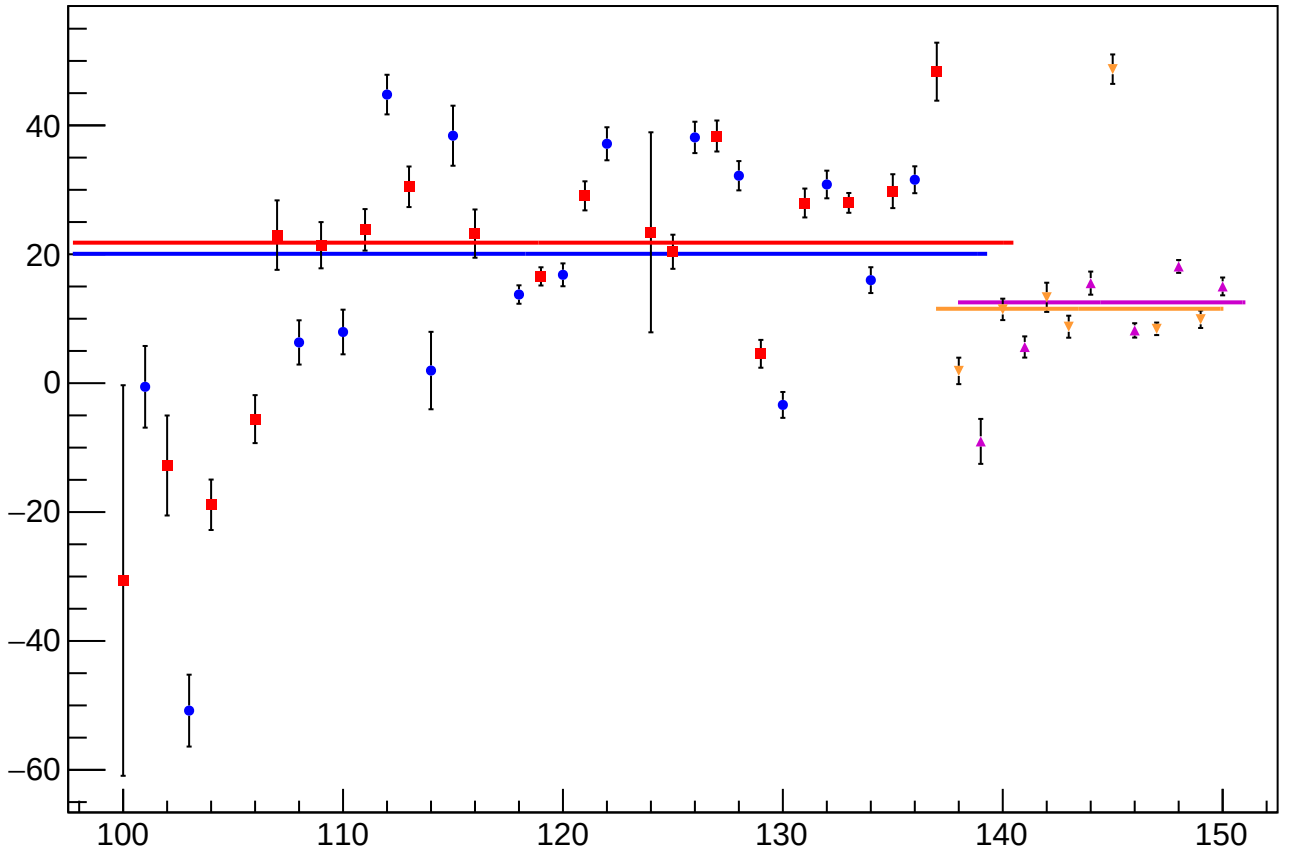
Left: -54.461+/-0.605 $\chi^2$/NDF: 1101.6/12

Right: -51.116+/-0.430 $\chi^2$/NDF: 2904.2/34

In: -52.426+/-0.498 $\chi^2$/NDF:1687.9/21

Out: -52.050+/-0.493 $\chi^2$/NDF:2338.0/25

All: -52.236+/-0.350 $\chi^2$/NDF: 4026.1/47




Right In: 20.072+/-0.612 $\chi^2$/NDF: 636.2/15

Left Out: 11.545+/-0.584 $\chi^2$/NDF:301.6/6

Right Out: 21.800+/-0.622 $\chi^2$/NDF: 396.3/18

Left In: 12.539+/-0.569 $\chi^2$/NDF:108.4/5

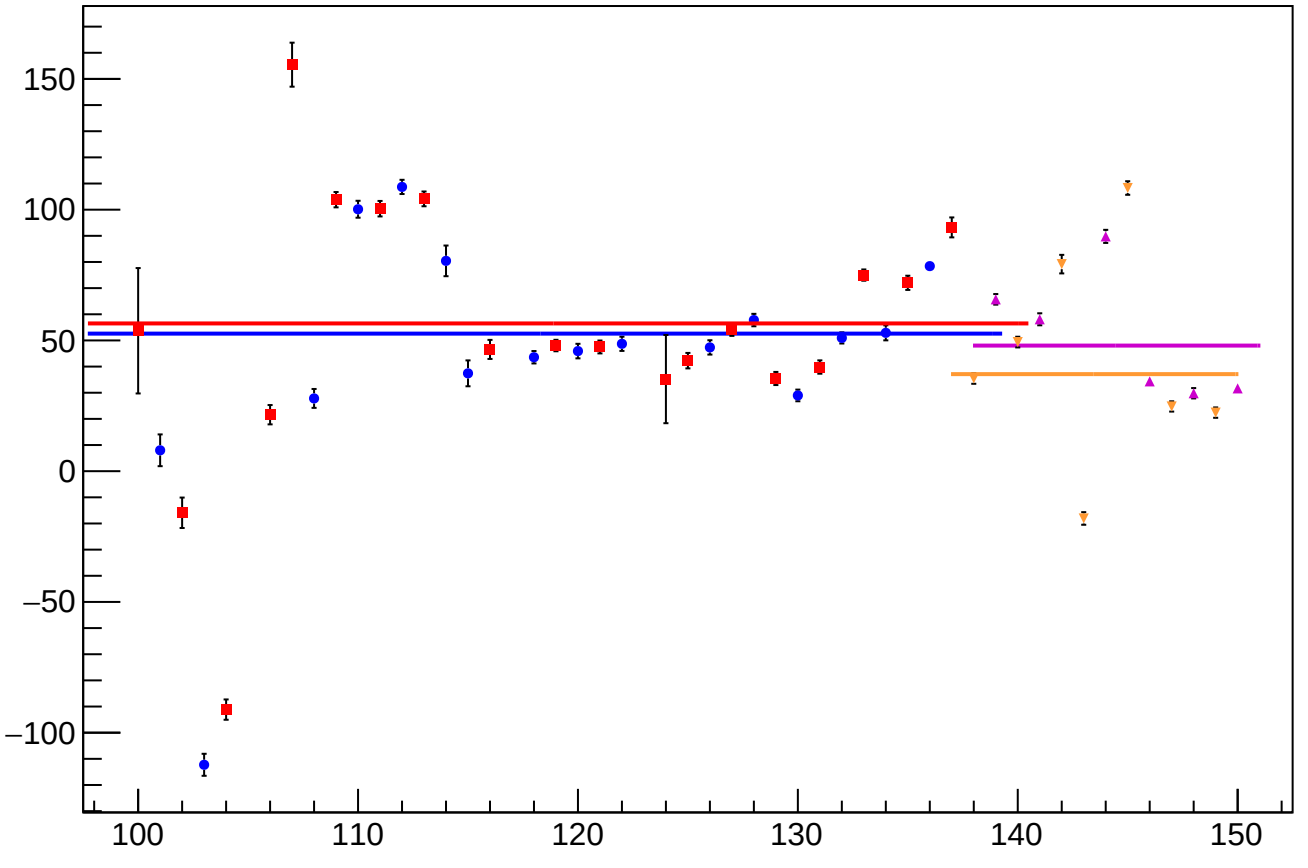
Left: 12.055+/-0.407 $\chi^2$/NDF: 411.5/12

Right: 20.922+/-0.436 $\chi^2$/NDF: 1036.5/34

In: 16.029+/-0.417 $\chi^2$/NDF:825.9/21

Out: 16.348+/-0.426 $\chi^2$/NDF:842.5/25

All: 16.185+/-0.298 $\chi^2$/NDF: 1668.7/47




Right In: 52.605+/-0.696 $\chi^2$/NDF: 2659.4/15

Left Out: 37.114+/-0.847 $\chi^2$/NDF:1547.9/6

Right Out: 56.499+/-0.705 $\chi^2$/NDF: 2965.5/18

Left In: 48.028+/-0.846 $\chi^2$/NDF:583.1/5

Left: 42.579+/-0.599 $\chi^2$/NDF: 2214.1/12

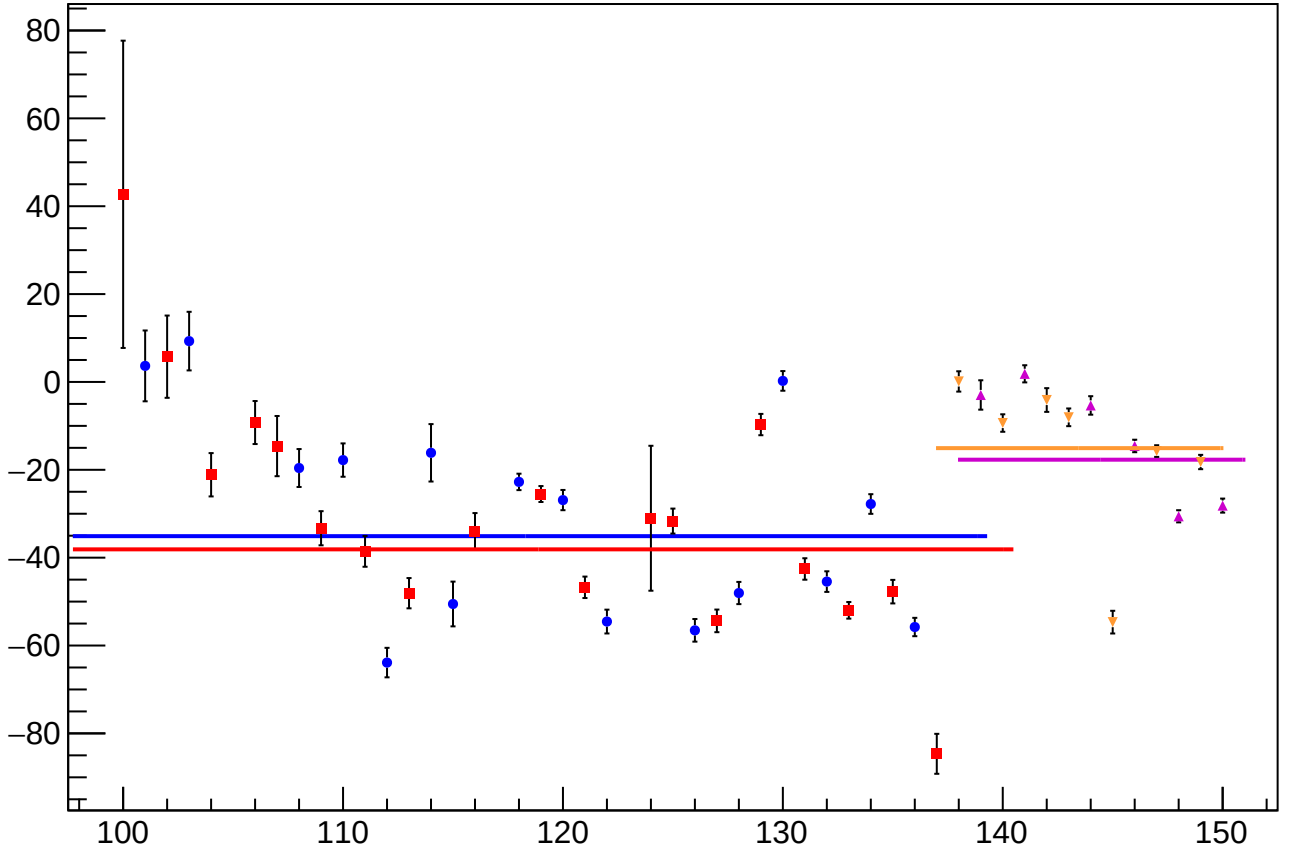
Right: 54.527+/-0.496 $\chi^2$/NDF: 5640.4/34

In: 50.757+/-0.538 $\chi^2$/NDF:3259.9/21

Out: 48.564+/-0.542 $\chi^2$/NDF:4822.5/25

All: 49.670+/-0.382 $\chi^2$/NDF: 8090.7/47

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -35.104+/-0.700 $\chi^2$/NDF: 773.2/15

Left Out: -15.066+/-0.722 $\chi^2$/NDF:319.0/6

Right Out: -38.109+/-0.714 $\chi^2$/NDF: 514.6/18

Left In: -17.698+/-0.710 $\chi^2$/NDF:288.1/5

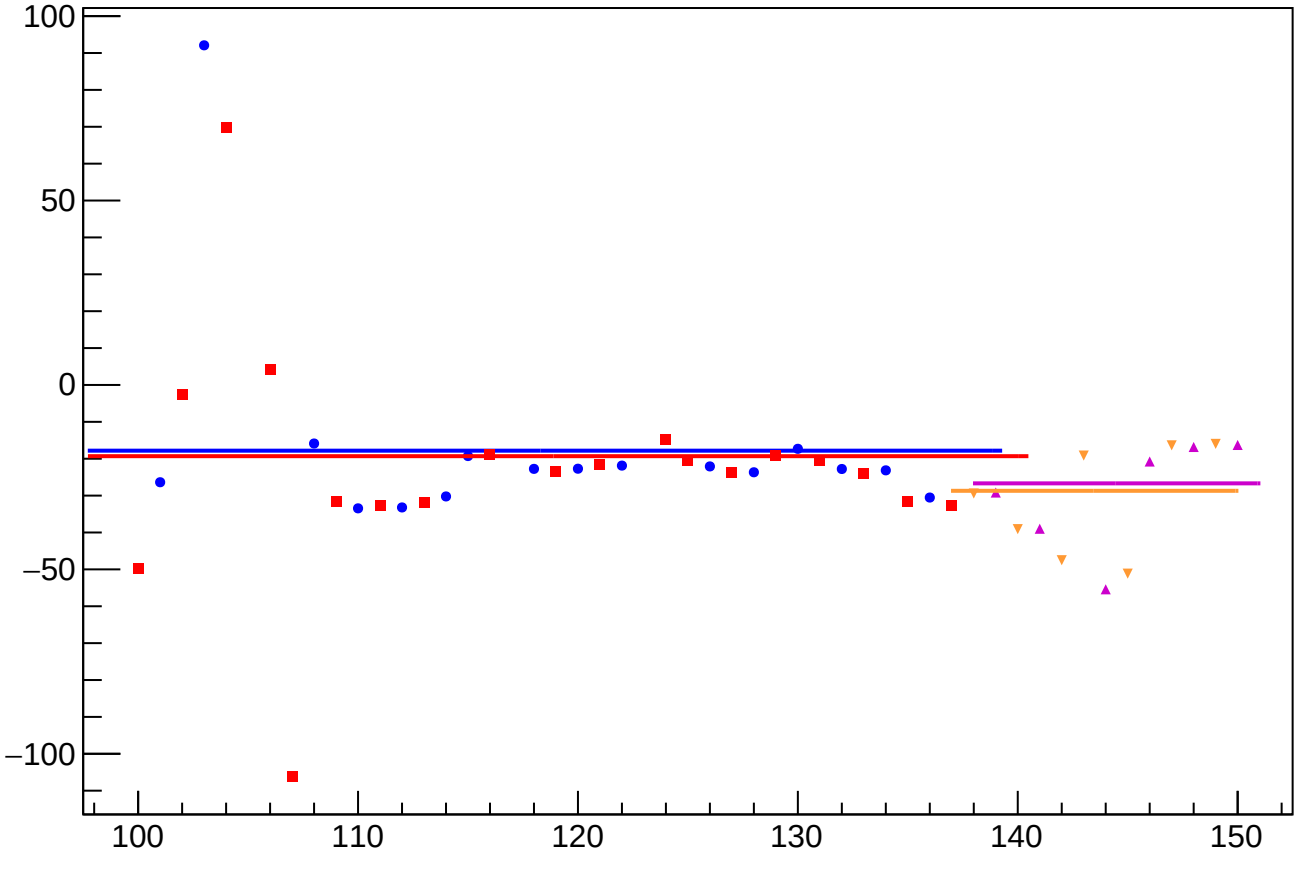
Left: -16.405+/-0.506 $\chi^2$/NDF: 613.9/12

Right: -36.577+/-0.500 $\chi^2$/NDF: 1296.8/34

In: -26.523+/-0.498 $\chi^2$/NDF:1366.0/21

Out: -26.725+/-0.508 $\chi^2$/NDF:1348.4/25

All: -26.622+/-0.356 $\chi^2$/NDF: 2714.4/47




Right In: -17.817+/-0.043 $\chi^2$/NDF: 426105.1/15

Left Out: -28.700+/-0.035 $\chi^2$/NDF:130674.5/6

Right Out: -19.311+/-0.046 $\chi^2$/NDF: 344626.7/18

Left In: -26.679+/-0.034 $\chi^2$/NDF:122178.9/5

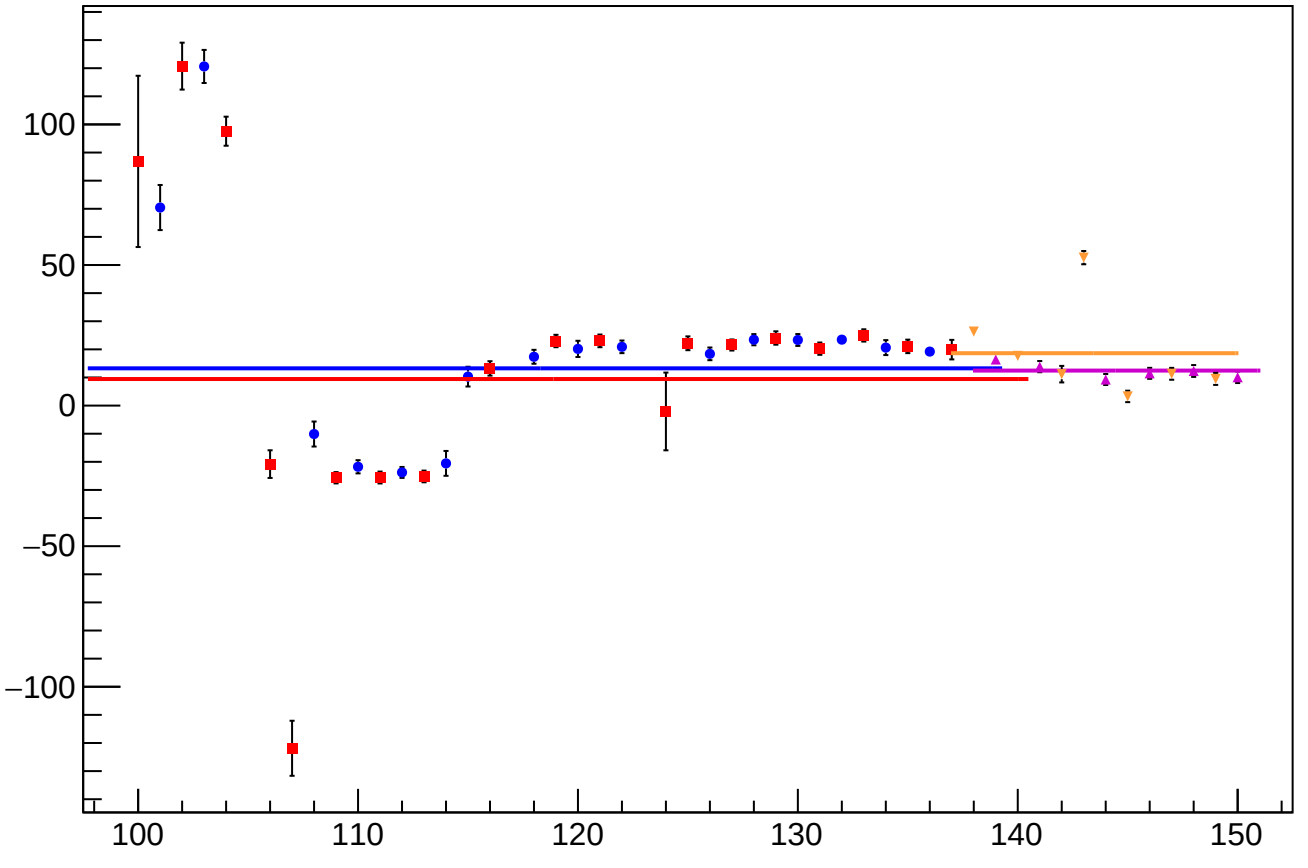
Left: -27.651+/-0.025 $\chi^2$/NDF: 254536.7/12

Right: -18.516+/-0.032 $\chi^2$/NDF: 771290.6/34

In: -23.274+/-0.027 $\chi^2$/NDF:574162.0/21

Out: -25.206+/-0.028 $\chi^2$/NDF:501359.7/25

All: -24.194+/-0.019 $\chi^2$/NDF: 1077995.6/47




Right In: 13.250+/-0.615 $\chi^2$/NDF: 1182.5/15

Left Out: 18.635+/-0.786 $\chi^2$/NDF:320.0/6

Right Out: 9.450+/-0.615 $\chi^2$/NDF: 1836.6/18

Left In: 12.453+/-0.797 $\chi^2$/NDF:9.9/5

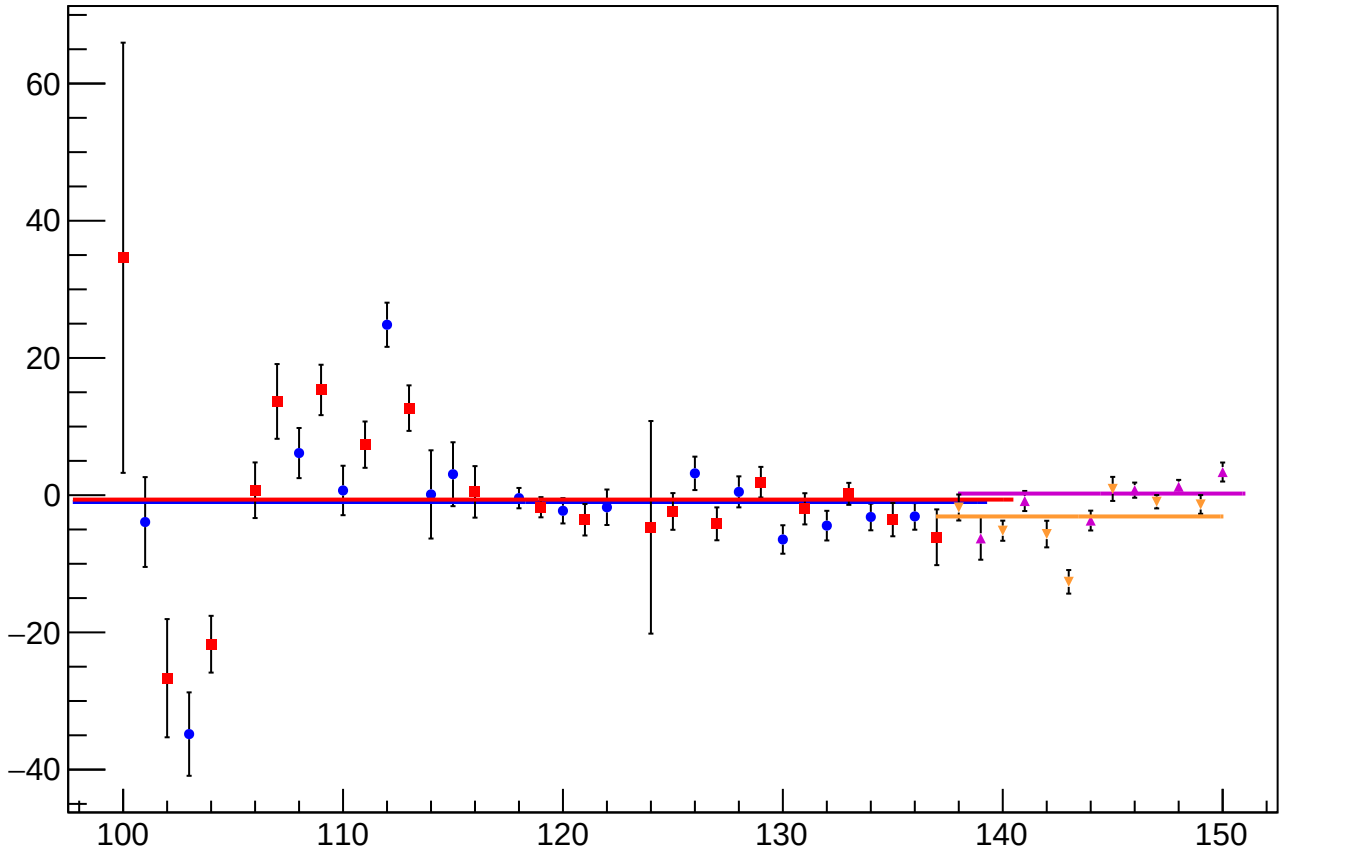
Left: 15.586+/-0.560 $\chi^2$/NDF: 360.4/12

Right: 11.351+/-0.435 $\chi^2$/NDF: 3038.2/34

In: 12.953+/-0.487 $\chi^2$/NDF:1193.0/21

Out: 12.939+/-0.484 $\chi^2$/NDF:2241.3/25

All: 12.946+/-0.343 $\chi^2$/NDF: 3434.4/47




Right In: -0.993+/-0.619 $\chi^2$/NDF: 116.3/15

Left Out: -3.102+/-0.553 $\chi^2$/NDF:46.7/6

Right Out: -0.644+/-0.636 $\chi^2$/NDF: 94.2/18

Left In: 0.232+/-0.543 $\chi^2$/NDF:18.7/5

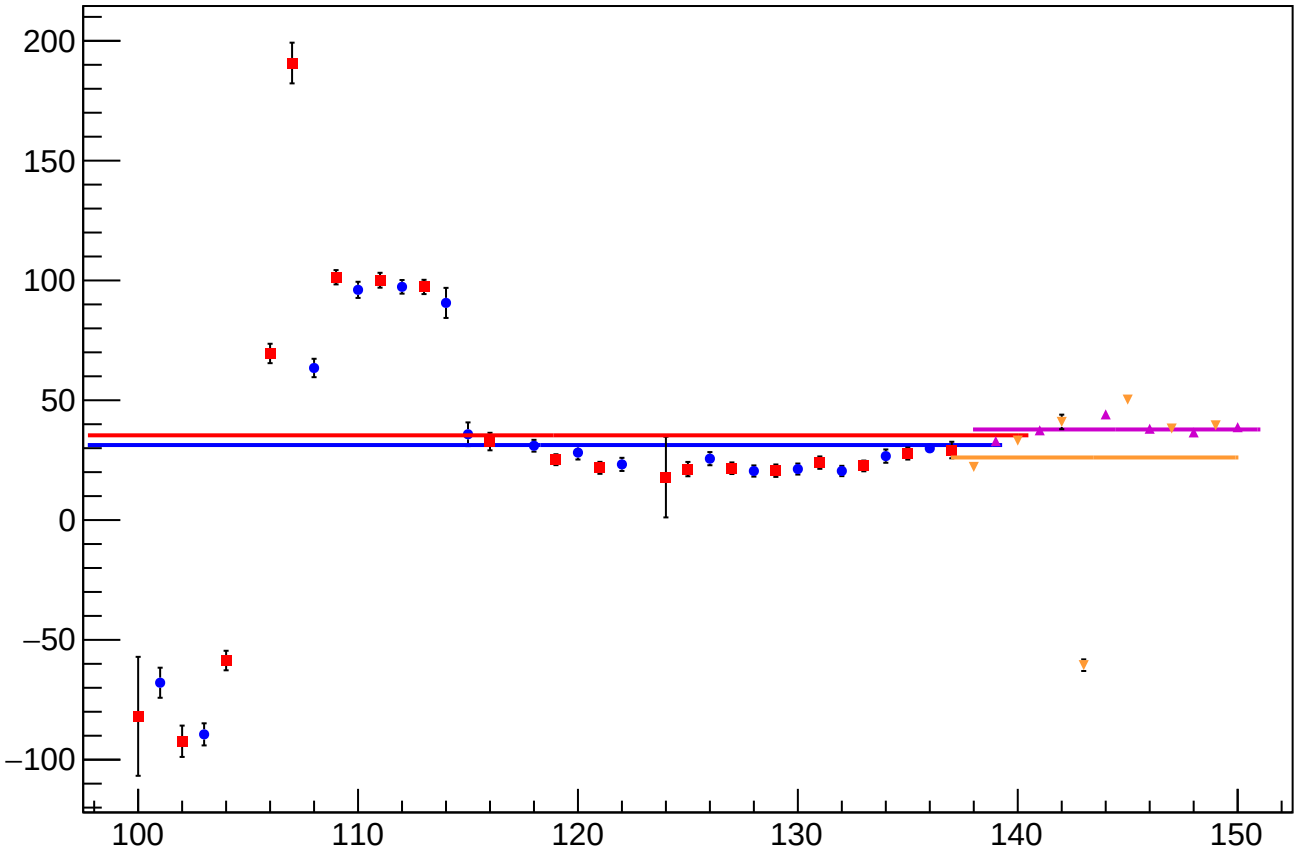
Left: -1.402+/-0.387 $\chi^2$/NDF: 83.9/12

Right: -0.823+/-0.443 $\chi^2$/NDF: 210.7/34

In: -0.300+/-0.408 $\chi^2$/NDF:137.3/21

Out: -2.042+/-0.417 $\chi^2$/NDF:149.5/25

All: -1.152+/-0.292 $\chi^2$/NDF: 295.6/47




Right In: 31.310+/-0.700 $\chi^2$/NDF: 2085.9/15

Left Out: 26.121+/-0.787 $\chi^2$/NDF:1537.5/6

Right Out: 35.366+/-0.717 $\chi^2$/NDF: 2897.7/18

Left In: 37.814+/-0.788 $\chi^2$/NDF:17.8/5

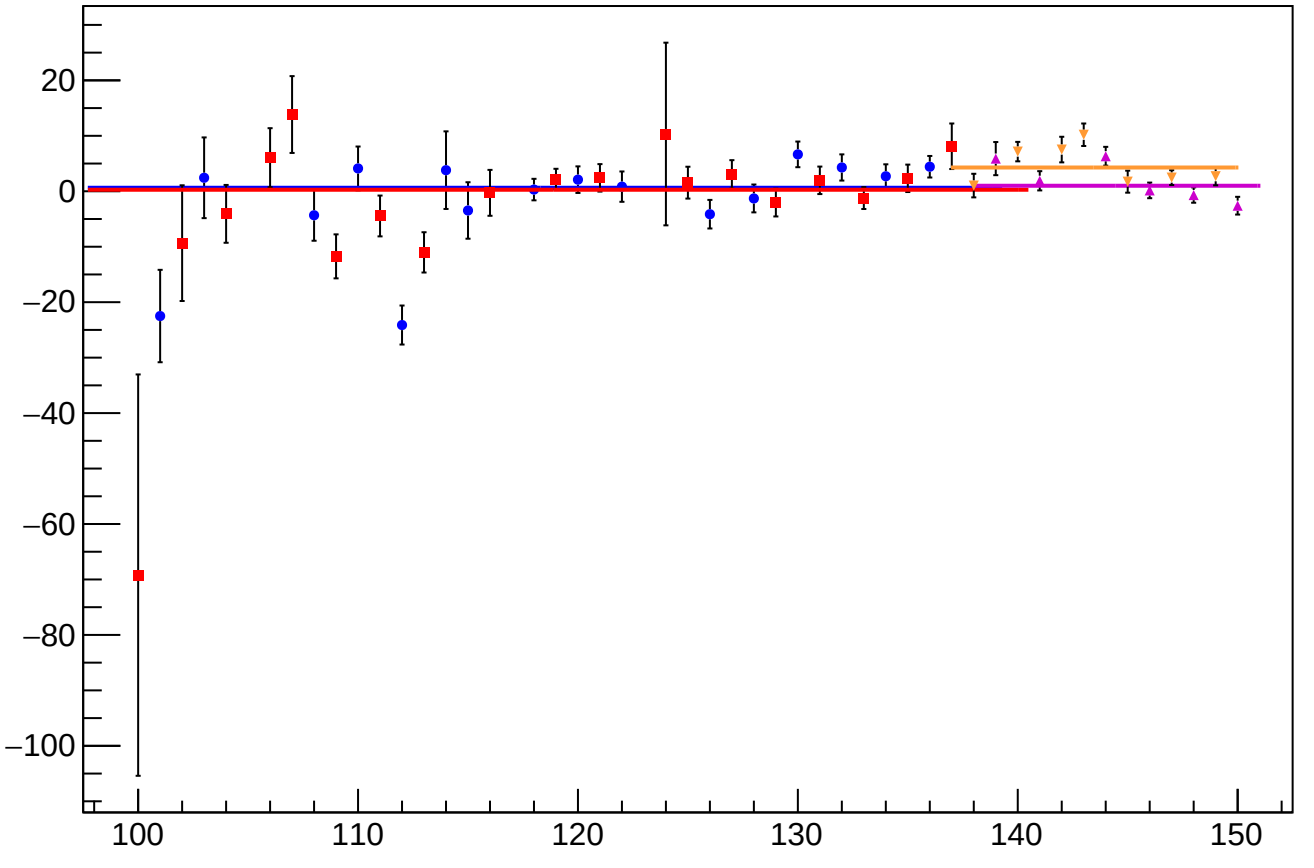
Left: 31.959+/-0.557 $\chi^2$/NDF: 1665.5/12

Right: 33.289+/-0.501 $\chi^2$/NDF: 4999.9/34

In: 34.179+/-0.523 $\chi^2$/NDF:2141.8/21

Out: 31.172+/-0.530 $\chi^2$/NDF:4510.6/25

All: 32.694+/-0.372 $\chi^2$/NDF: 6668.6/47




Right In: 0.632+/-0.705 $\chi^2$/NDF: 78.4/15

Left Out: 4.285+/-0.680 $\chi^2$/NDF:19.9/6

Right Out: 0.274+/-0.726 $\chi^2$/NDF: 40.5/18

Left In: 0.995+/-0.672 $\chi^2$/NDF:19.7/5

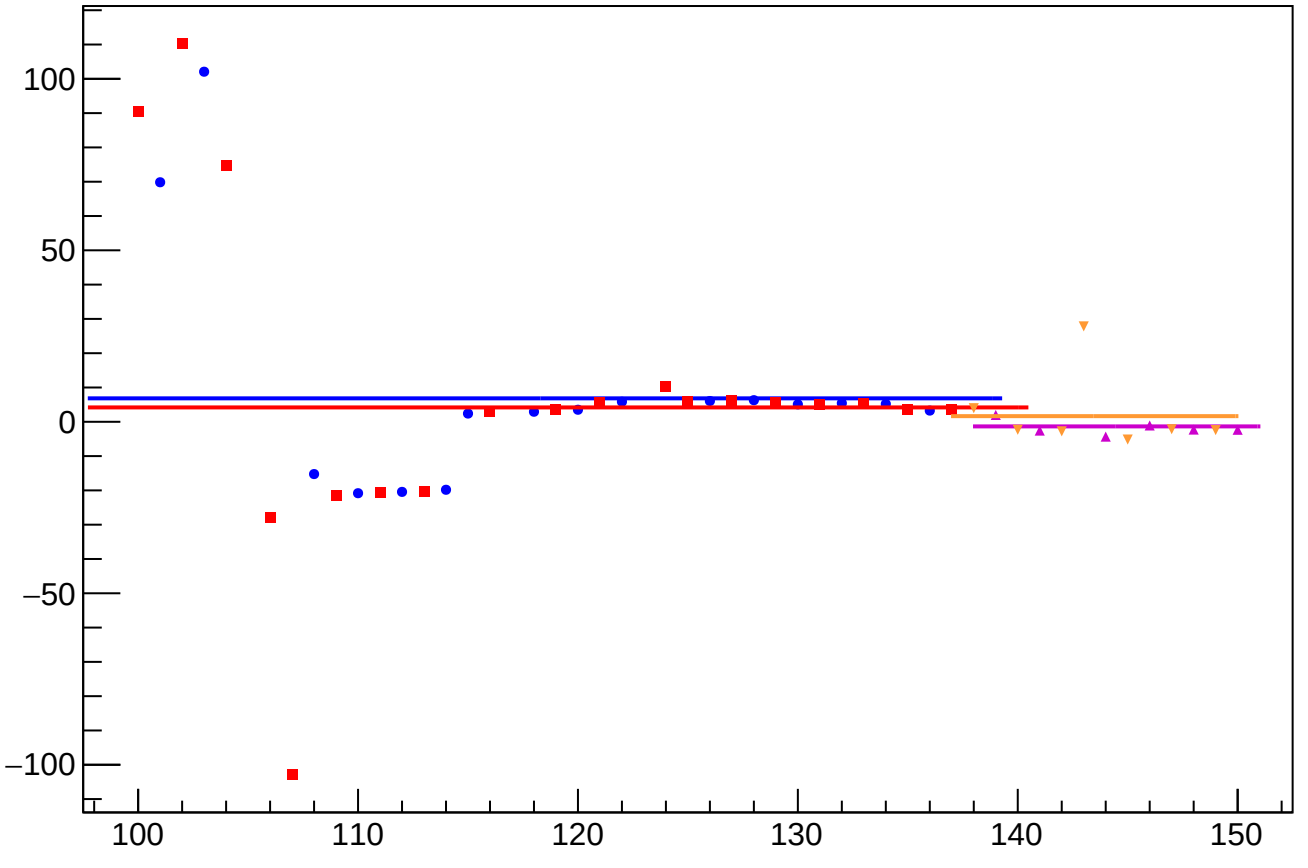
Left: 2.623+/-0.478 $\chi^2$/NDF: 51.5/12

Right: 0.459+/-0.506 $\chi^2$/NDF: 119.0/34

In: 0.822+/-0.486 $\chi^2$/NDF:98.3/21

Out: 2.412+/-0.496 $\chi^2$/NDF:76.6/25

All: 1.601+/-0.347 $\chi^2$/NDF: 180.2/47




Right In: 6.838+/-0.043 $\chi^2$/NDF: 320954.7/15

Left Out: 1.645+/-0.033 $\chi^2$/NDF:83394.3/6

Right Out: 4.190+/-0.046 $\chi^2$/NDF: 434546.8/18

Left In: -1.342+/-0.032 $\chi^2$/NDF:4324.2/5

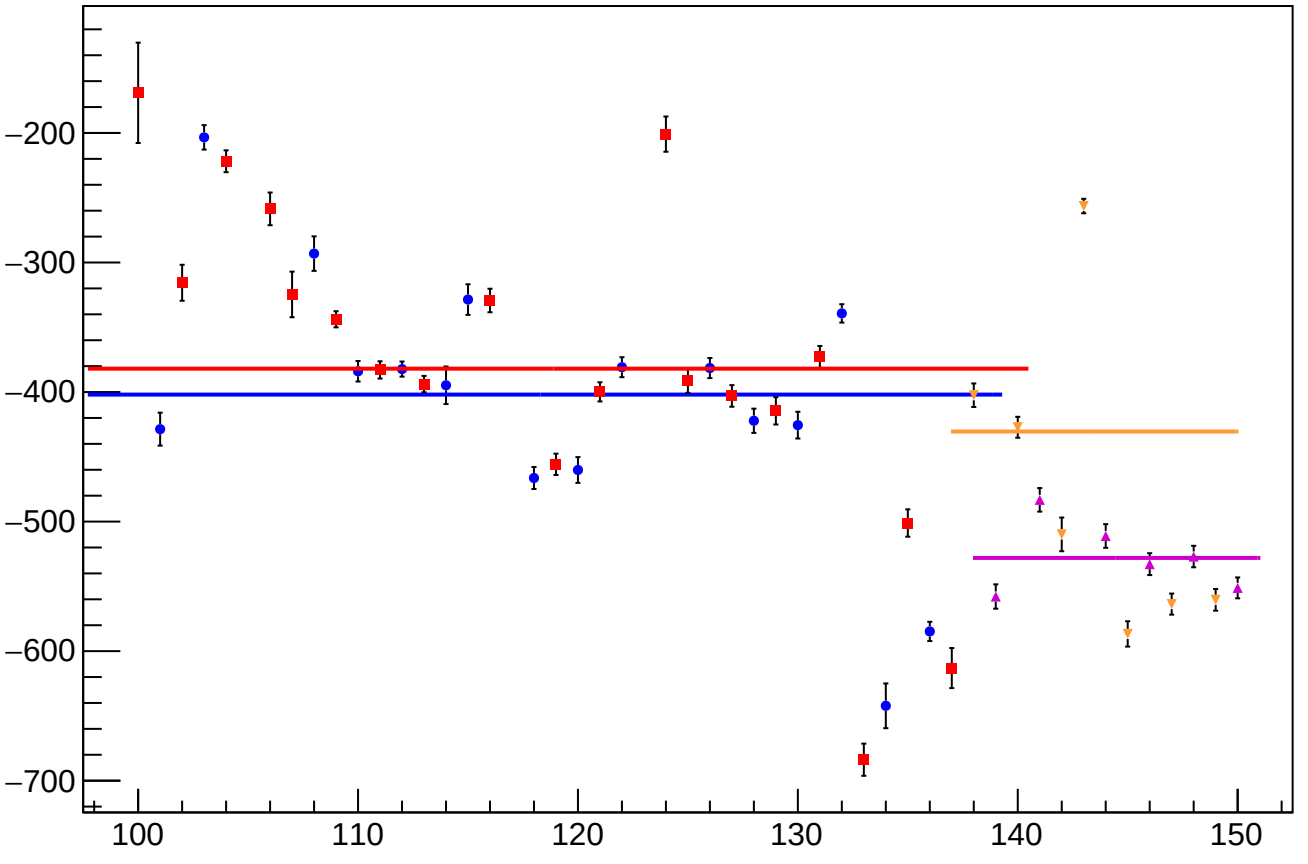
Left: 0.107+/-0.023 $\chi^2$/NDF: 91991.7/12

Right: 5.616+/-0.031 $\chi^2$/NDF: 757263.1/34

In: 1.566+/-0.026 $\chi^2$/NDF:348769.5/21

Out: 2.496+/-0.027 $\chi^2$/NDF:519952.7/25

All: 2.009+/-0.018 $\chi^2$/NDF: 869353.9/47




Right In: -401.961+/-2.236 $\chi^2$/NDF: 1563.3/15

Left Out: -430.467+/-3.083 $\chi^2$/NDF:1781.6/6

Right Out: -381.949+/-2.124 $\chi^2$/NDF: 1817.4/18

Left In: -528.039+/-3.550 $\chi^2$/NDF:46.4/5

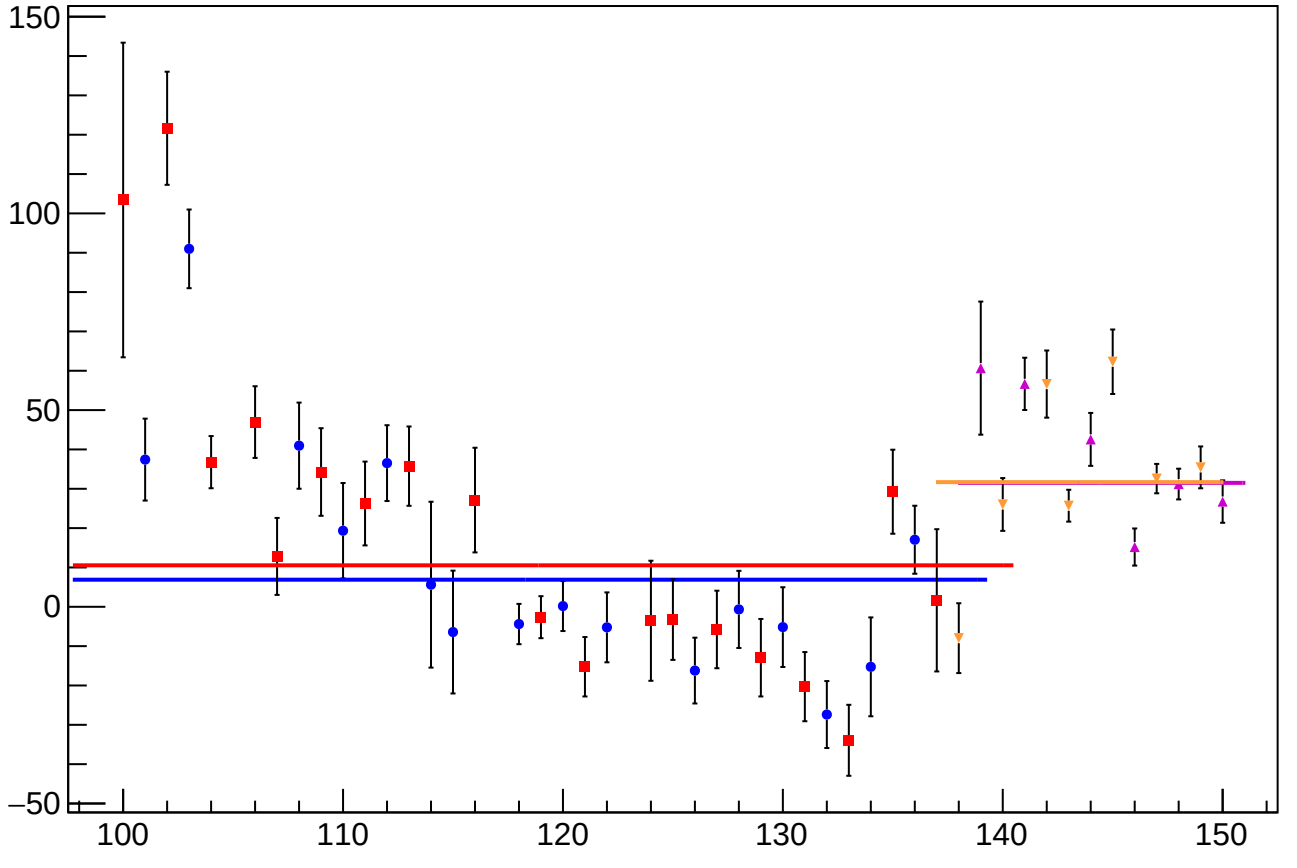
Left: -472.418+/-2.328 $\chi^2$/NDF: 2258.4/12

Right: -391.443+/-1.540 $\chi^2$/NDF: 3422.8/34

In: -437.766+/-1.892 $\chi^2$/NDF:2512.5/21

Out: -397.566+/-1.749 $\chi^2$/NDF:3766.9/25

All: -416.093+/-1.284 $\chi^2$/NDF: 6522.7/47




Right In: 6.889+/-2.264 $\chi^2$/NDF: 138.4/15

Left Out: 31.685+/-2.078 $\chi^2$/NDF:45.9/6

Right Out: 10.544+/-2.197 $\chi^2$/NDF: 180.0/18

Left In: 31.503+/-2.275 $\chi^2$/NDF:32.8/5

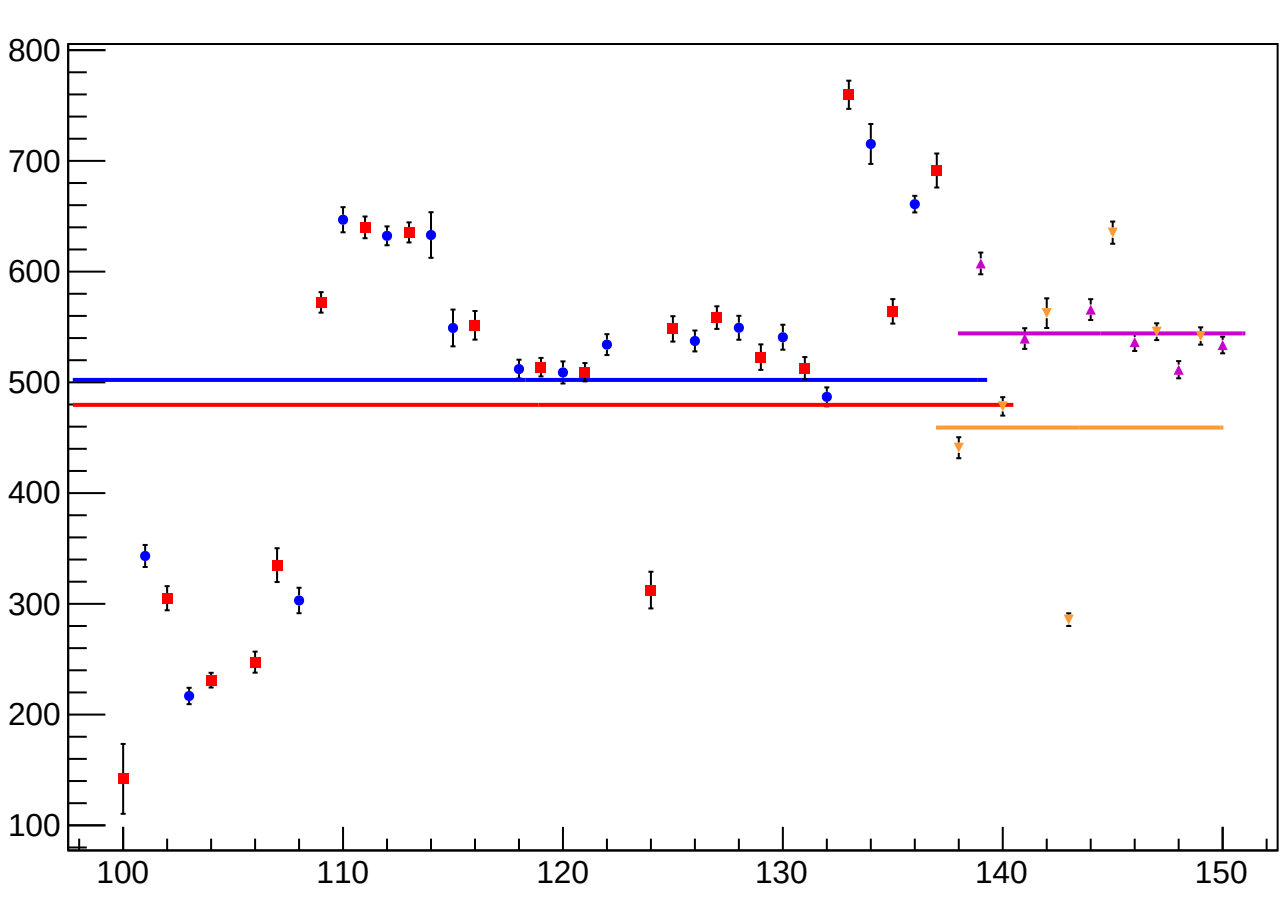
Left: 31.602+/-1.534 $\chi^2$/NDF: 78.7/12

Right: 8.772+/-1.577 $\chi^2$/NDF: 319.8/34

In: 19.135+/-1.605 $\chi^2$/NDF:230.0/21

Out: 21.703+/-1.510 $\chi^2$/NDF:274.8/25

All: 20.498+/-1.100 $\chi^2$/NDF: 506.2/47




Right In: 502.213+/-2.493 $\chi^2$/NDF: 3135.2/15

Left Out: 459.197+/-3.084 $\chi^2$/NDF:1530.8/6

Right Out: 479.679+/-2.399 $\chi^2$/NDF: 4138.5/18

Left In: 544.199+/-3.476 $\chi^2$/NDF:67.7/5

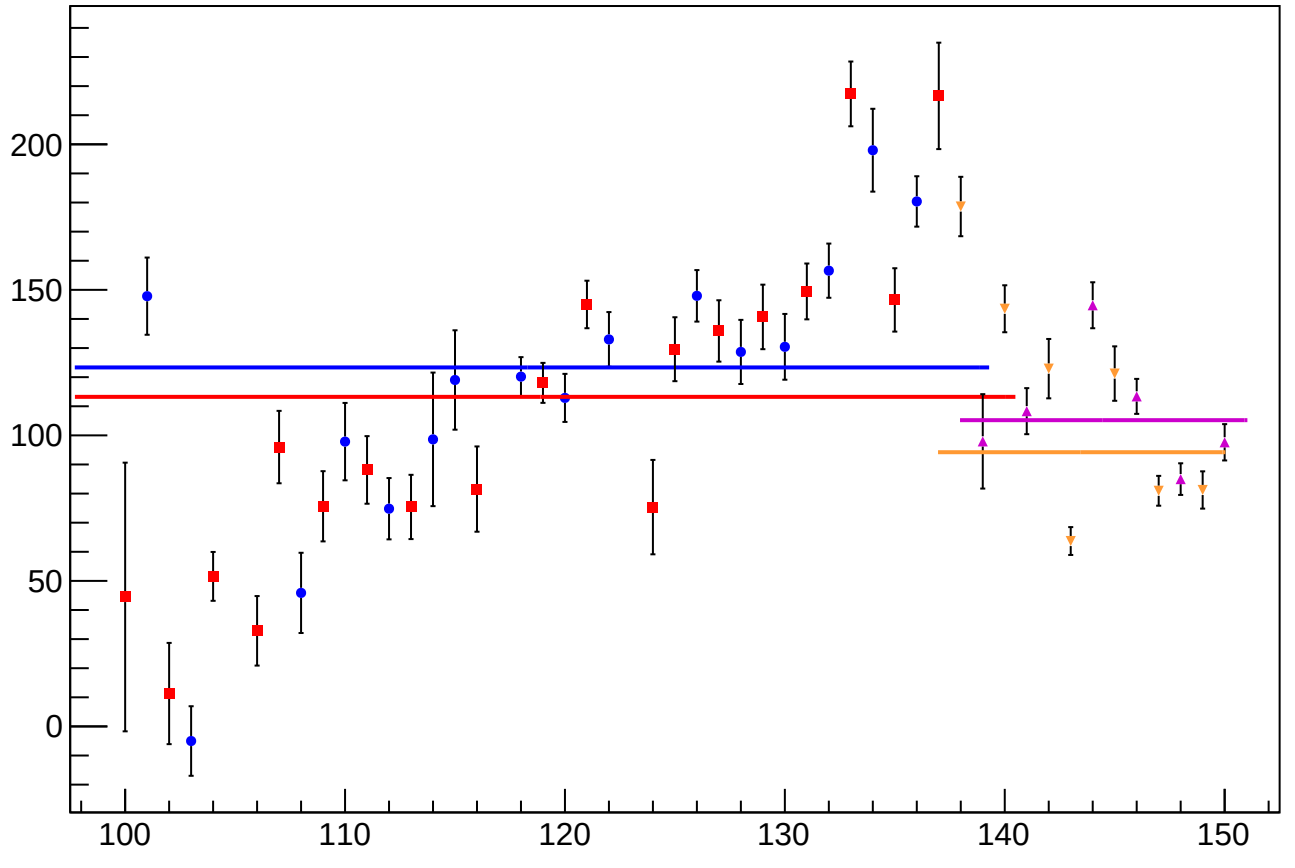
Left: 496.634+/-2.307 $\chi^2$/NDF: 1933.2/12

Right: 490.515+/-1.729 $\chi^2$/NDF: 7316.1/34

In: 516.473+/-2.026 $\chi^2$/NDF:3299.2/21

Out: 471.956+/-1.894 $\chi^2$/NDF:5696.9/25

All: 492.716+/-1.383 $\chi^2$/NDF: 9253.8/47




Right In: 123.344+/-2.627 $\chi^2$/NDF: 271.4/15

Left Out: 94.215+/-2.564 $\chi^2$/NDF:173.4/6

Right Out: 113.235+/-2.545 $\chi^2$/NDF: 345.8/18

Left In: 105.222+/-2.851 $\chi^2$/NDF:42.6/5

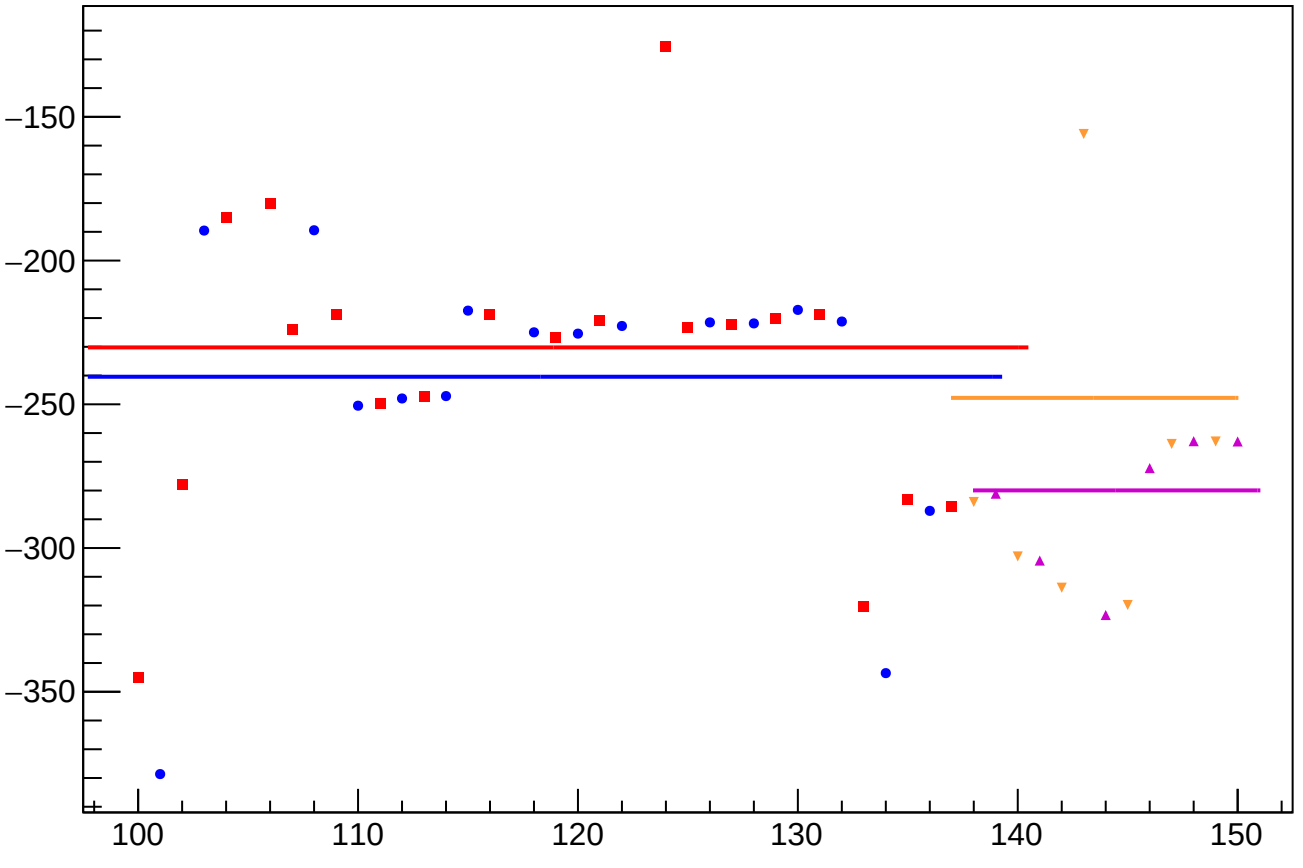
Left: 99.138+/-1.907 $\chi^2$/NDF: 224.2/12

Right: 118.129+/-1.828 $\chi^2$/NDF: 624.8/34

In: 115.022+/-1.932 $\chi^2$/NDF:335.8/21

Out: 103.797+/-1.806 $\chi^2$/NDF:546.9/25

All: 109.033+/-1.319 $\chi^2$/NDF: 900.7/47




Right In: -240.411+/-0.151 $\chi^2$/NDF: 134152.1/15

Left Out: -247.762+/-0.130 $\chi^2$/NDF:229986.7/6

Right Out: -230.207+/-0.146 $\chi^2$/NDF: 83431.4/18

Left In: -279.950+/-0.142 $\chi^2$/NDF:21236.1/5

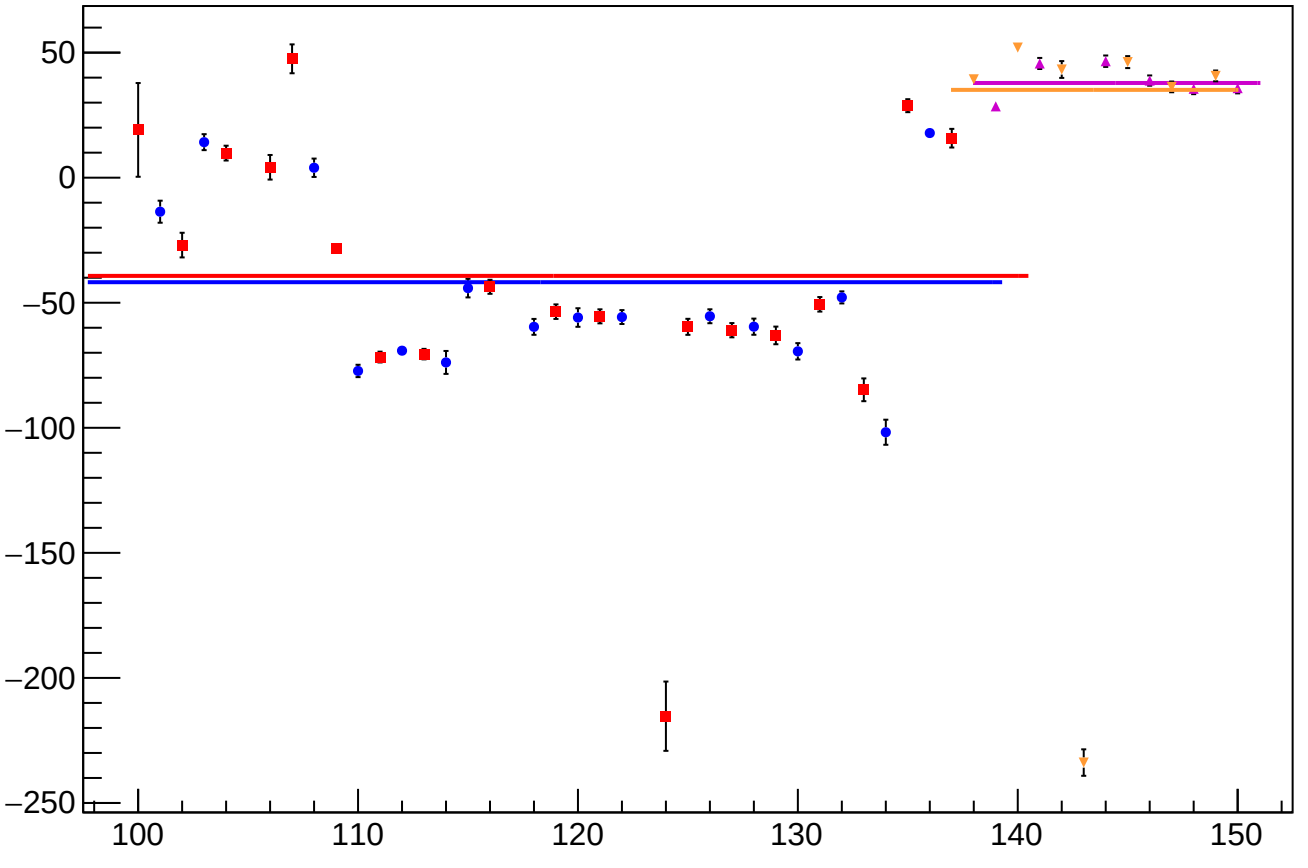
Left: -262.455+/-0.096 $\chi^2$/NDF: 279236.9/12

Right: -235.167+/-0.105 $\chi^2$/NDF: 219942.1/34

In: -261.374+/-0.103 $\chi^2$/NDF:191925.9/21

Out: -240.032+/-0.097 $\chi^2$/NDF:321455.1/25

All: -250.062+/-0.071 $\chi^2$/NDF: 536034.4/47




Right In: -41.788+/-0.723 $\chi^2$/NDF: 2405.5/15

Left Out: 35.105+/-0.894 $\chi^2$/NDF:2698.5/6

Right Out: -39.263+/-0.680 $\chi^2$/NDF: 2478.3/18

Left In: 37.864+/-0.862 $\chi^2$/NDF:52.8/5

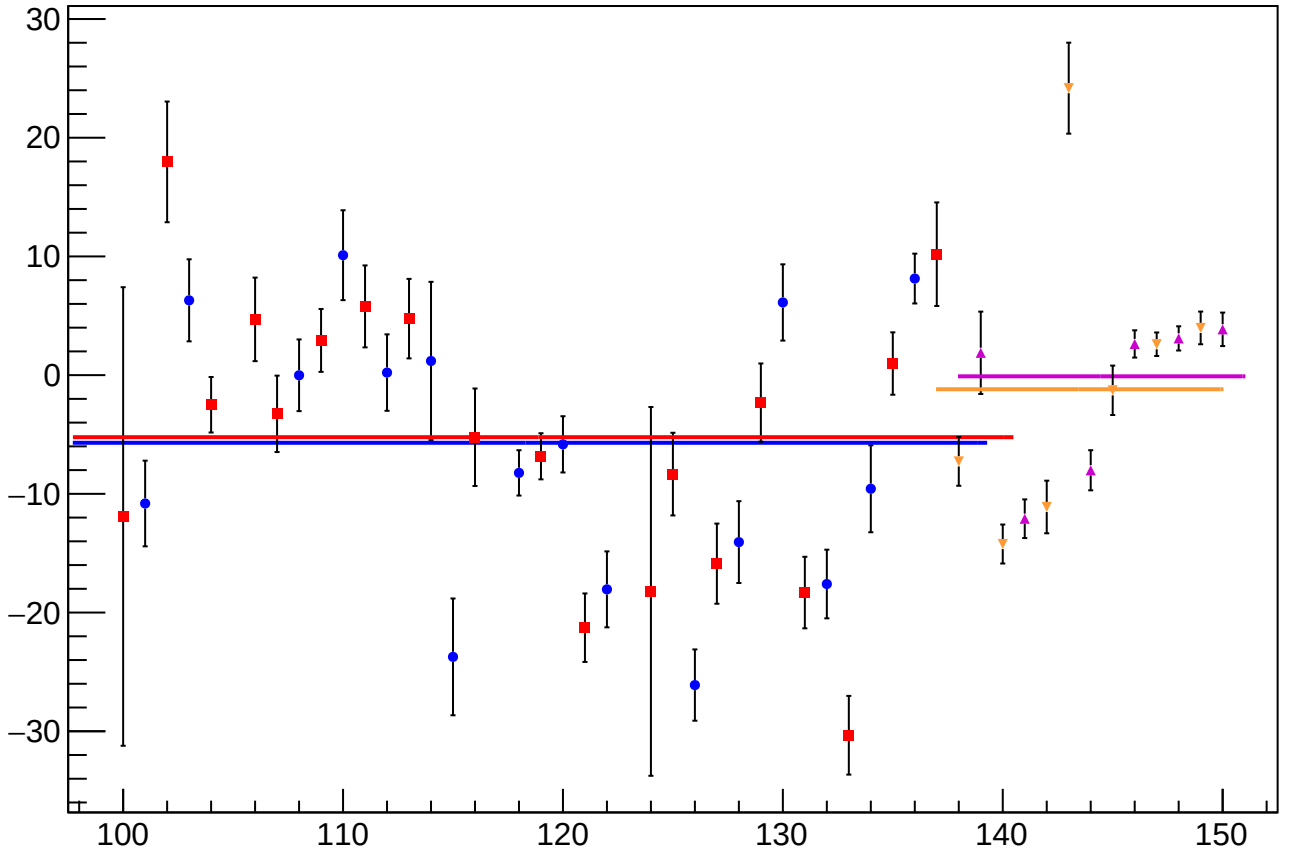
Left: 36.534+/-0.620 $\chi^2$/NDF: 2756.2/12

Right: -40.447+/-0.495 $\chi^2$/NDF: 4890.2/34

In: -8.886+/-0.554 $\chi^2$/NDF:7469.9/21

Out: -12.010+/-0.541 $\chi^2$/NDF:9564.5/25

All: -10.485+/-0.387 $\chi^2$/NDF: 17050.7/47




Right In: -5.697+/-0.753 $\chi^2$/NDF: 196.7/15

Left Out: -1.188+/-0.613 $\chi^2$/NDF:164.4/6

Right Out: -5.227+/-0.740 $\chi^2$/NDF: 197.3/18

Left In: -0.101+/-0.574 $\chi^2$/NDF:99.9/5

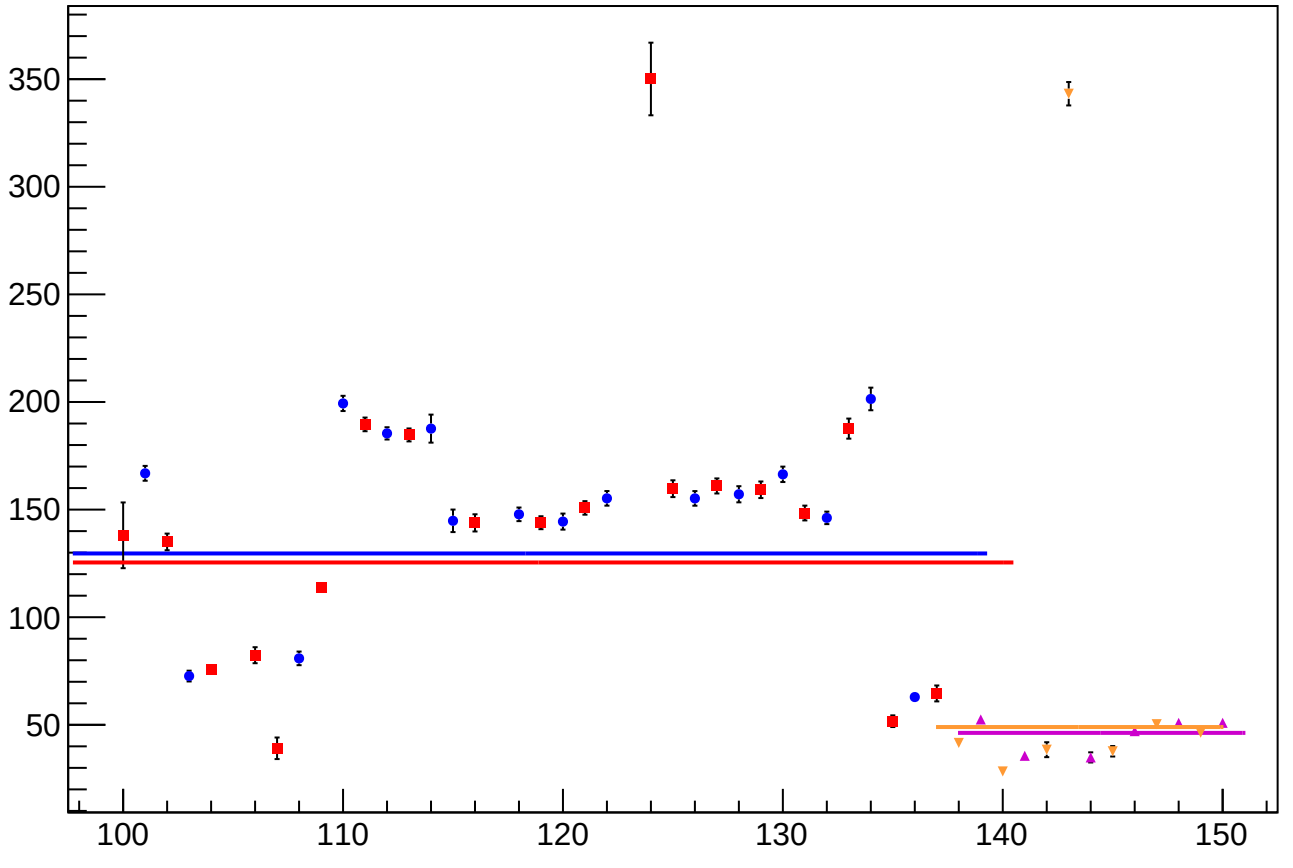
Left: -0.609+/-0.419 $\chi^2$/NDF: 266.0/12

Right: -5.458+/-0.528 $\chi^2$/NDF: 394.3/34

In: -2.159+/-0.457 $\chi^2$/NDF:331.6/21

Out: -2.833+/-0.472 $\chi^2$/NDF:379.4/25

All: -2.485+/-0.328 $\chi^2$/NDF: 712.0/47




Right In: 129.621+/-0.801 $\chi^2$/NDF: 3624.4/15

Left Out: 48.971+/-0.888 $\chi^2$/NDF:3077.1/6

Right Out: 125.435+/-0.790 $\chi^2$/NDF: 3503.2/18

Left In: 46.257+/-0.849 $\chi^2$/NDF:66.2/5

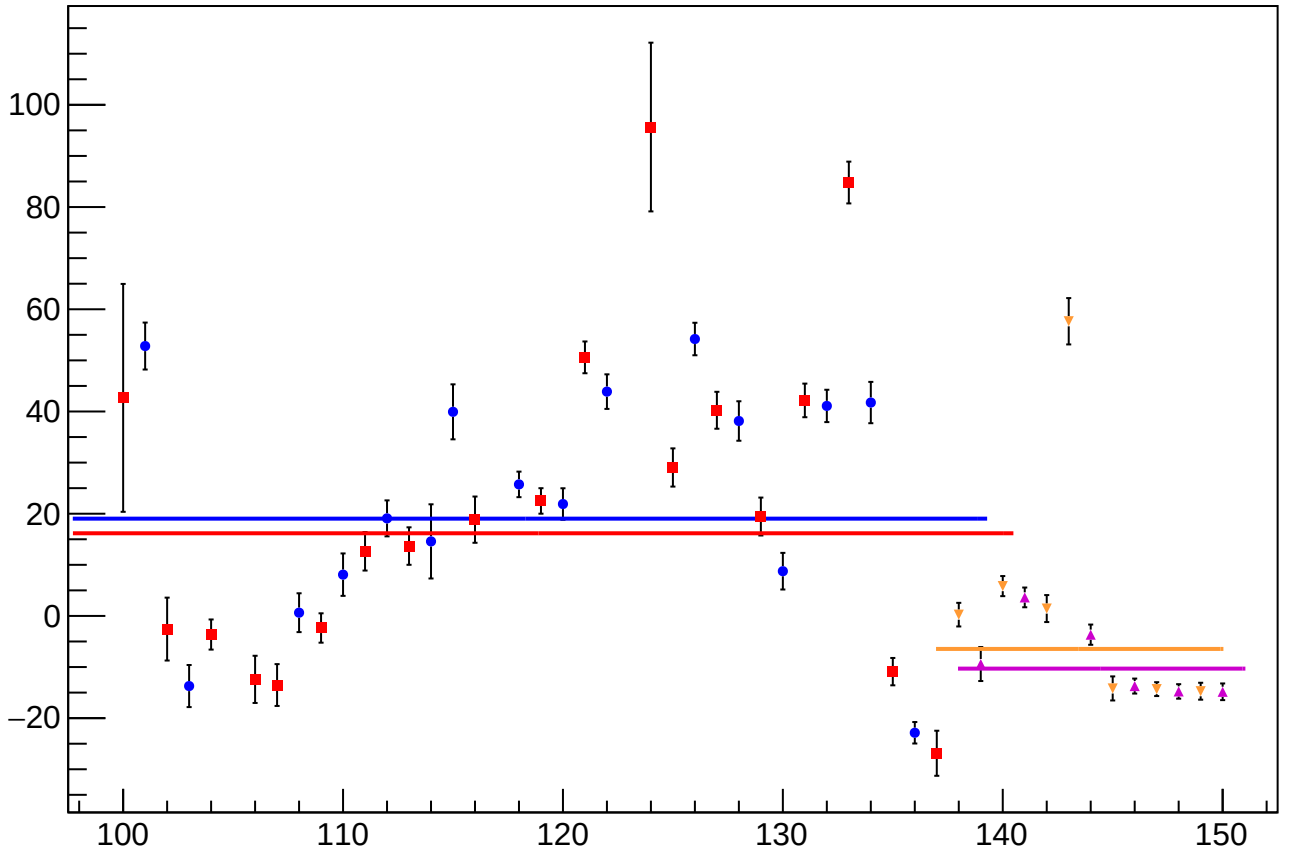
Left: 47.553+/-0.614 $\chi^2$/NDF: 3148.2/12

Right: 127.500+/-0.562 $\chi^2$/NDF: 7141.4/34

In: 90.369+/-0.582 $\chi^2$/NDF:8795.5/21

Out: 91.674+/-0.590 $\chi^2$/NDF:10718.6/25

All: 91.013+/-0.415 $\chi^2$/NDF: 19516.6/47




Right In: 19.035+/-0.860 $\chi^2$/NDF: 858.1/15

Left Out: -6.455+/-0.761 $\chi^2$/NDF:325.8/6

Right Out: 16.173+/-0.846 $\chi^2$/NDF: 941.3/18

Left In: -10.308+/-0.715 $\chi^2$/NDF:86.5/5

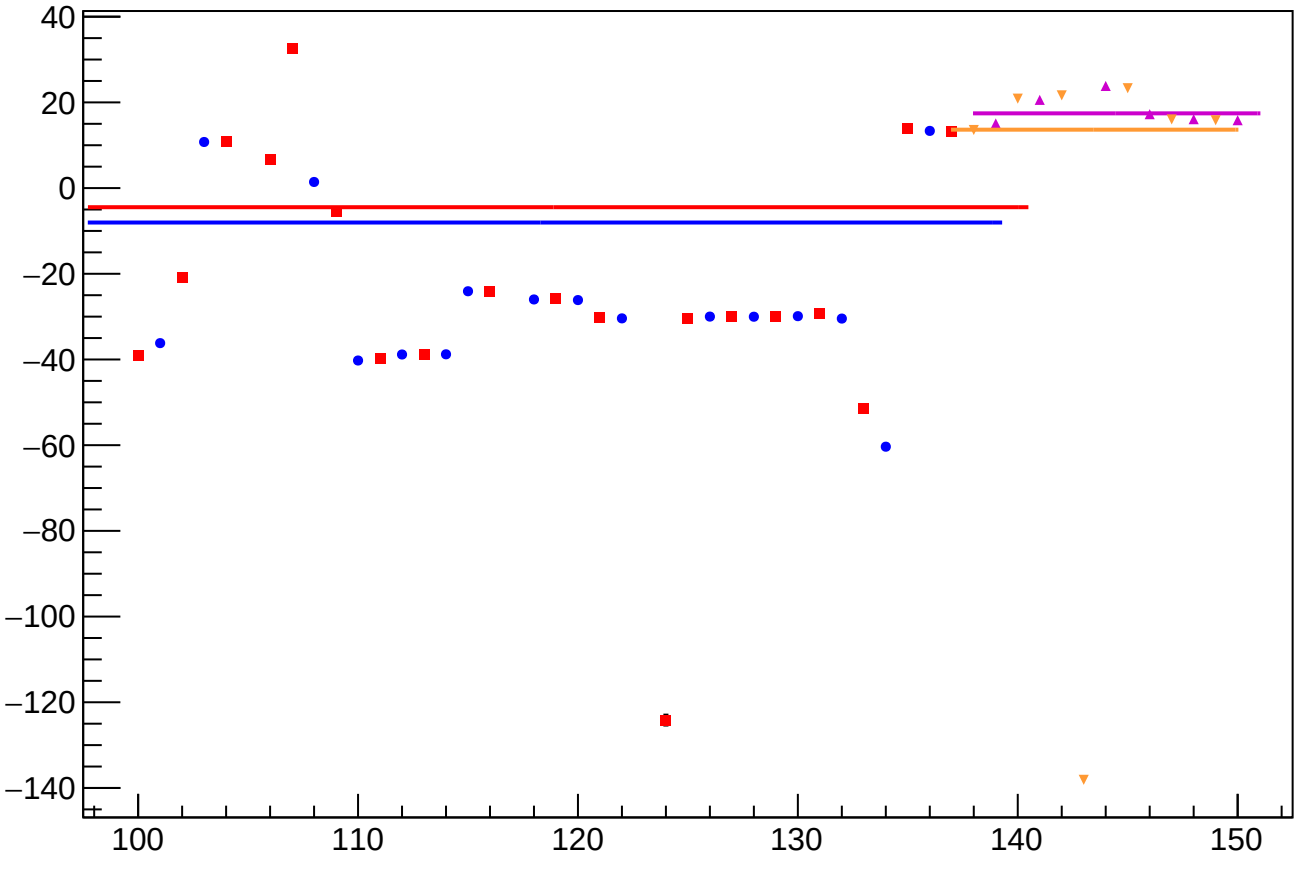
Left: -8.500+/-0.521 $\chi^2$/NDF: 425.9/12

Right: 17.581+/-0.603 $\chi^2$/NDF: 1804.9/34

In: 1.694+/-0.550 $\chi^2$/NDF:1632.8/21

Out: 3.664+/-0.566 $\chi^2$/NDF:1662.6/25

All: 2.651+/-0.394 $\chi^2$/NDF: 3301.6/47




Right In: -8.038+/-0.046 $\chi^2$/NDF: 267883.6/15

Left Out: 13.631+/-0.037 $\chi^2$/NDF:470054.6/6

Right Out: -4.461+/-0.047 $\chi^2$/NDF: 228422.2/18

Left In: 17.441+/-0.034 $\chi^2$/NDF:6616.8/5

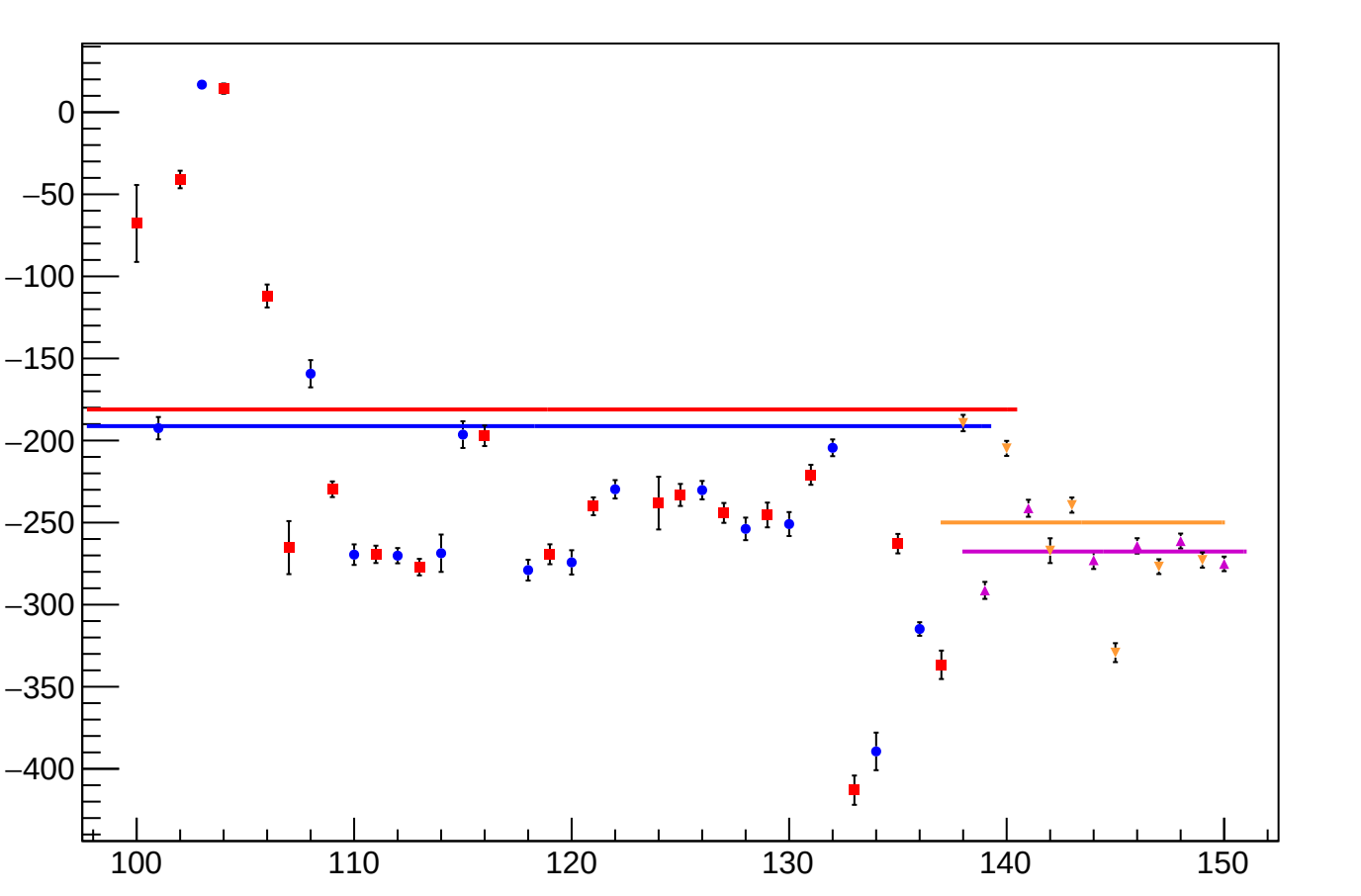
Left: 15.689+/-0.025 $\chi^2$/NDF: 482355.5/12

Right: -6.287+/-0.033 $\chi^2$/NDF: 499287.4/34

In: 8.304+/-0.027 $\chi^2$/NDF:472752.5/21

Out: 6.641+/-0.029 $\chi^2$/NDF:790186.9/25

All: 7.521+/-0.020 $\chi^2$/NDF: 1264668.4/47




Right In: -191.225+/-1.419 $\chi^2$/NDF: 7224.7/15

Left Out: -249.928+/-1.899 $\chi^2$/NDF:503.2/6

Right Out: -181.080+/-1.383 $\chi^2$/NDF: 7374.0/18

Left In: -267.630+/-1.985 $\chi^2$/NDF:53.1/5

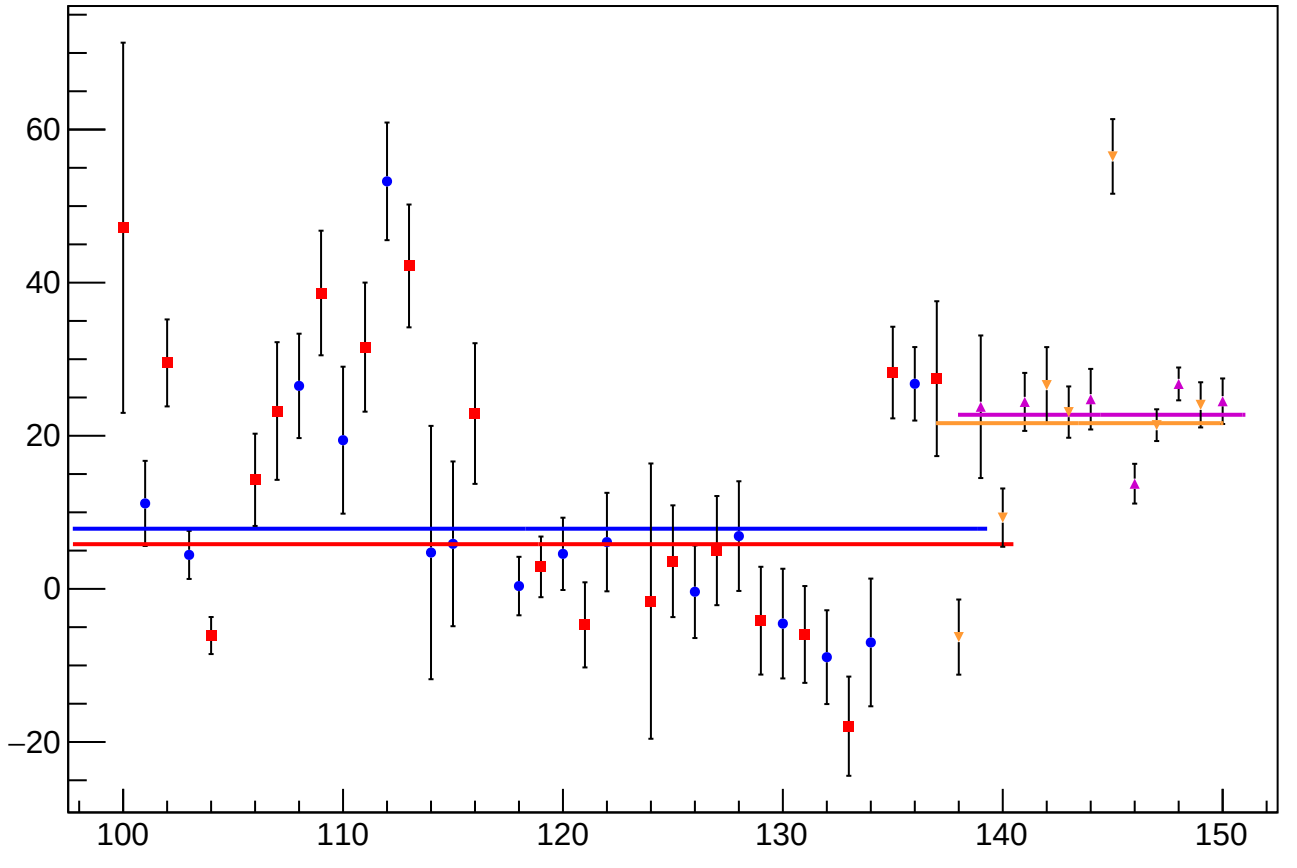
Left: -258.389+/-1.372 $\chi^2$/NDF: 597.8/12

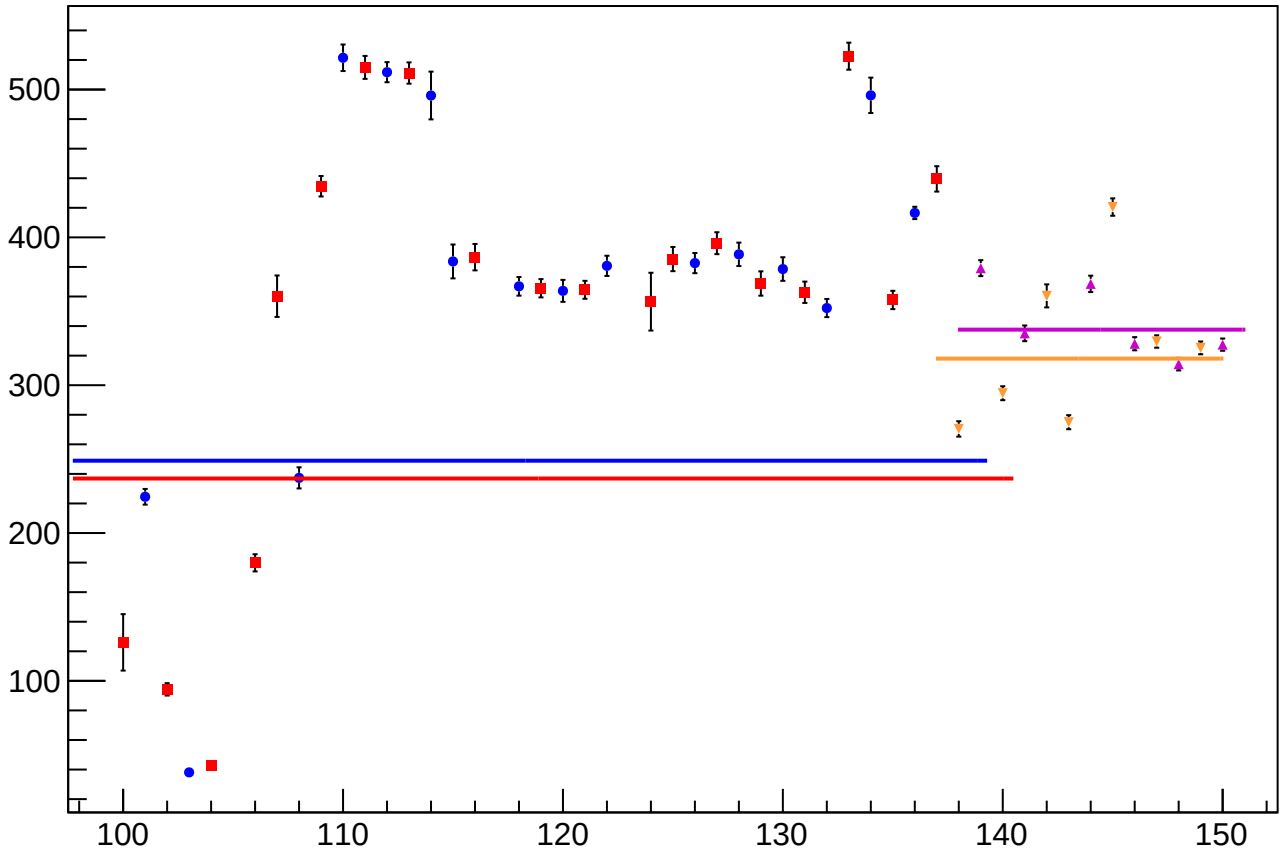
Right: -186.022+/-0.990 $\chi^2$/NDF: 14624.9/34

In: -217.060+/-1.154 $\chi^2$/NDF:8258.6/21

Out: -204.927+/-1.118 $\chi^2$/NDF:8736.1/25

All: -210.799+/-0.803 $\chi^2$/NDF: 17051.8/47


reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
60
40
20
0
−20
100
110
120
130
140
150
Right In: 7.859+/-1.438 χ²/NDF: 80.9/15
Left Out: 21.646+/-1.260 χ²/NDF:95.9/6
Right Out: 5.839+/-1.355 χ²/NDF: 141.9/18
Left In: 22.743+/-1.266 χ²/NDF:16.4/5
Left: 22.192+/-0.893 χ²/NDF: 112.6/12
Right: 6.789+/-0.986 χ²/NDF: 223.8/34
In: 16.244+/-0.950 χ²/NDF:157.7/21
Out: 14.316+/-0.923 χ²/NDF:310.7/25
All: 15.252+/-0.662 χ²/NDF: 470.4/47




Right In: 248.932+/-1.422 $\chi^2$/NDF: 15302.2/15

Left Out: 317.987+/-1.887 $\chi^2$/NDF:532.7/6

Right Out: 236.871+/-1.407 $\chi^2$/NDF: 15657.3/18

Left In: 337.583+/-1.940 $\chi^2$/NDF:131.5/5

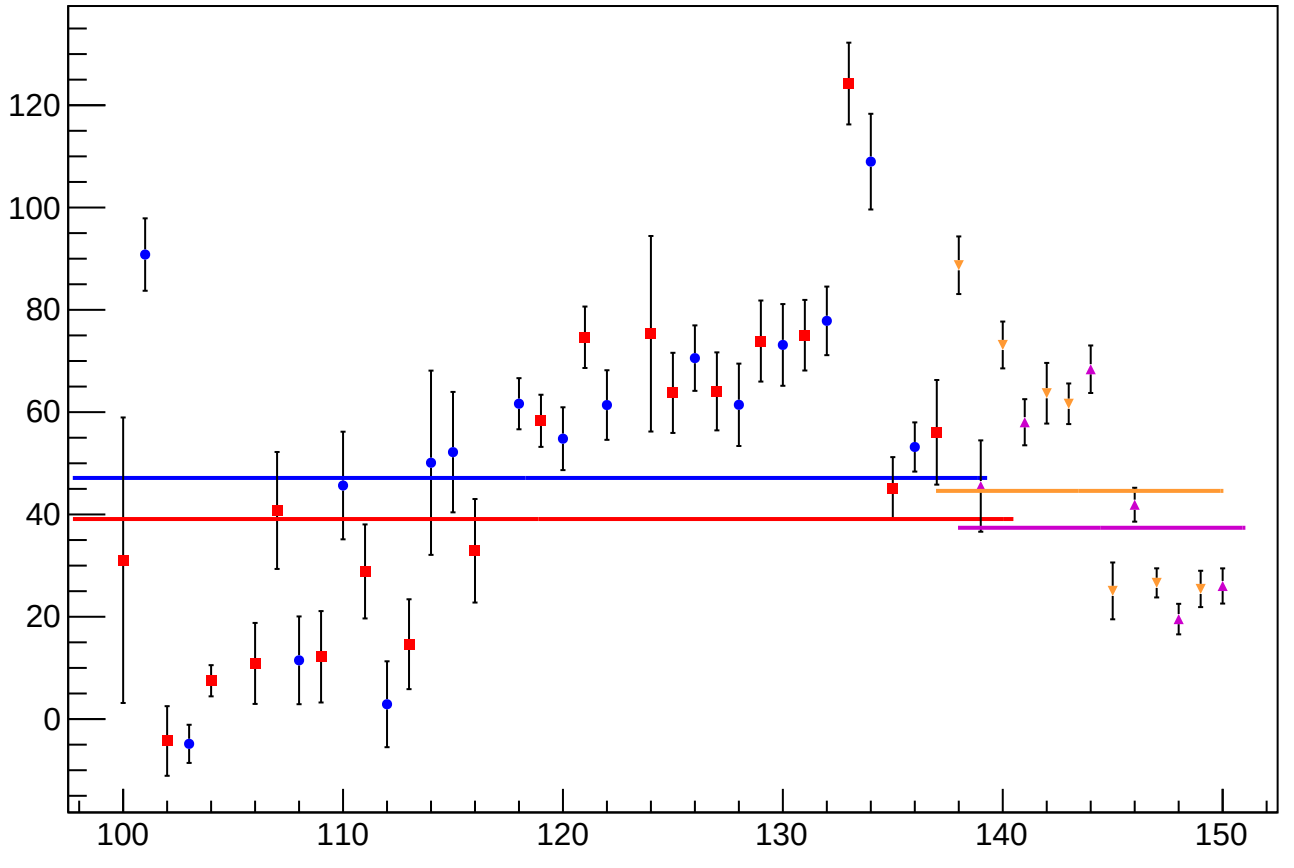
Left: 327.513+/-1.353 $\chi^2$/NDF: 716.7/12

Right: 242.838+/-1.000 $\chi^2$/NDF: 30995.9/34

In: 279.901+/-1.147 $\chi^2$/NDF:16792.0/21

Out: 265.842+/-1.128 $\chi^2$/NDF:17377.7/25

All: 272.754+/-0.804 $\chi^2$/NDF: 34246.1/47




Right In: 47.137+/-1.668 $\chi^2$/NDF: 385.3/15

Left Out: 44.608+/-1.569 $\chi^2$/NDF:210.4/6

Right Out: 39.105+/-1.596 $\chi^2$/NDF: 416.5/18

Left In: 37.397+/-1.589 $\chi^2$/NDF:114.9/5

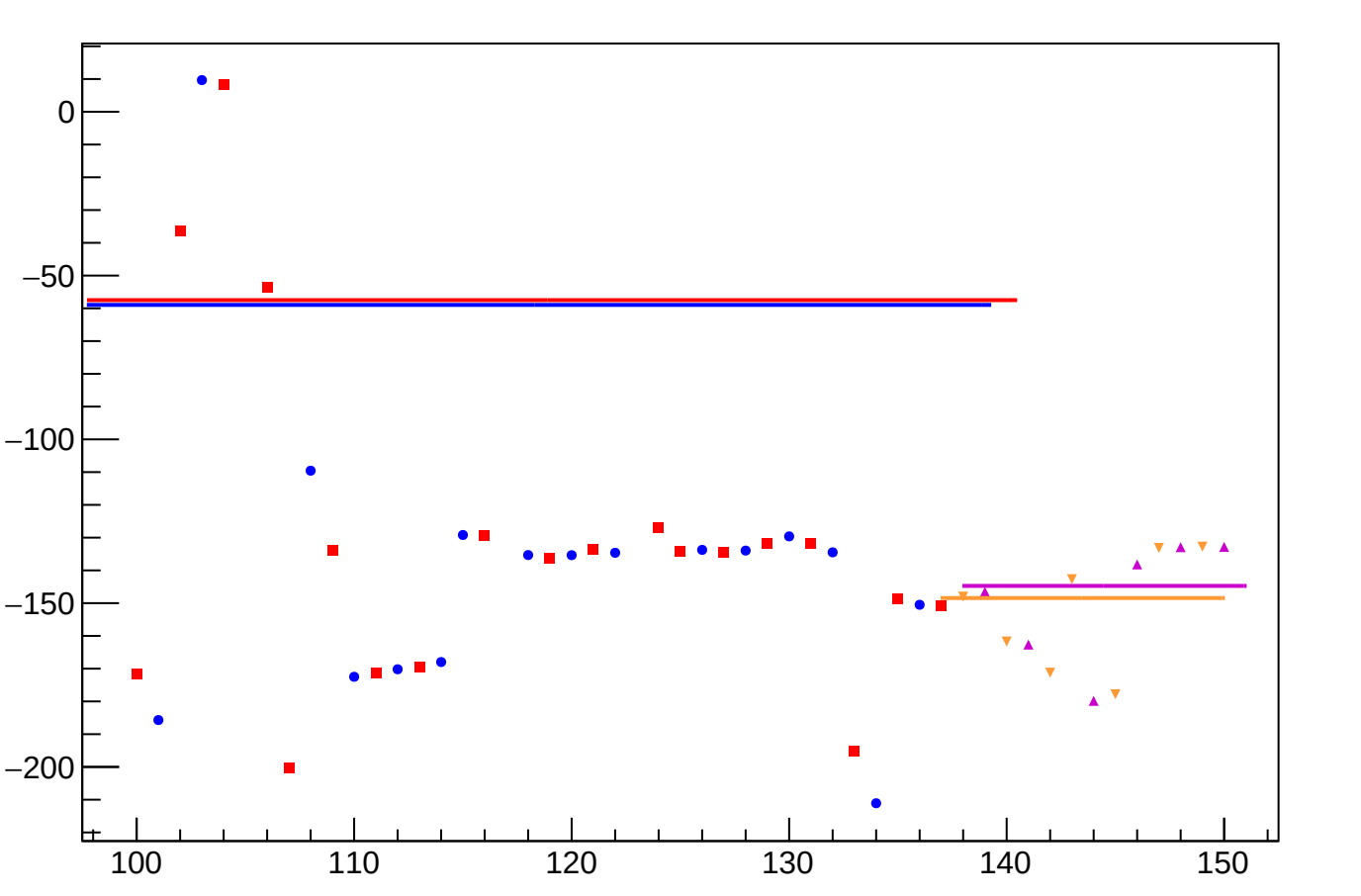
Left: 41.049+/-1.116 $\chi^2$/NDF: 335.7/12

Right: 42.944+/-1.153 $\chi^2$/NDF: 813.9/34

In: 42.032+/-1.150 $\chi^2$/NDF:518.1/21

Out: 41.904+/-1.119 $\chi^2$/NDF:632.9/25

All: 41.966+/-0.802 $\chi^2$/NDF: 1151.0/47




Right In: -58.956+/-0.073 $\chi^2$/NDF: 1227079.0/15

Left Out: -148.443+/-0.080 $\chi^2$/NDF:39853.1/6

Right Out: -57.497+/-0.074 $\chi^2$/NDF: 871305.9/18

Left In: -144.737+/-0.079 $\chi^2$/NDF:37746.2/5

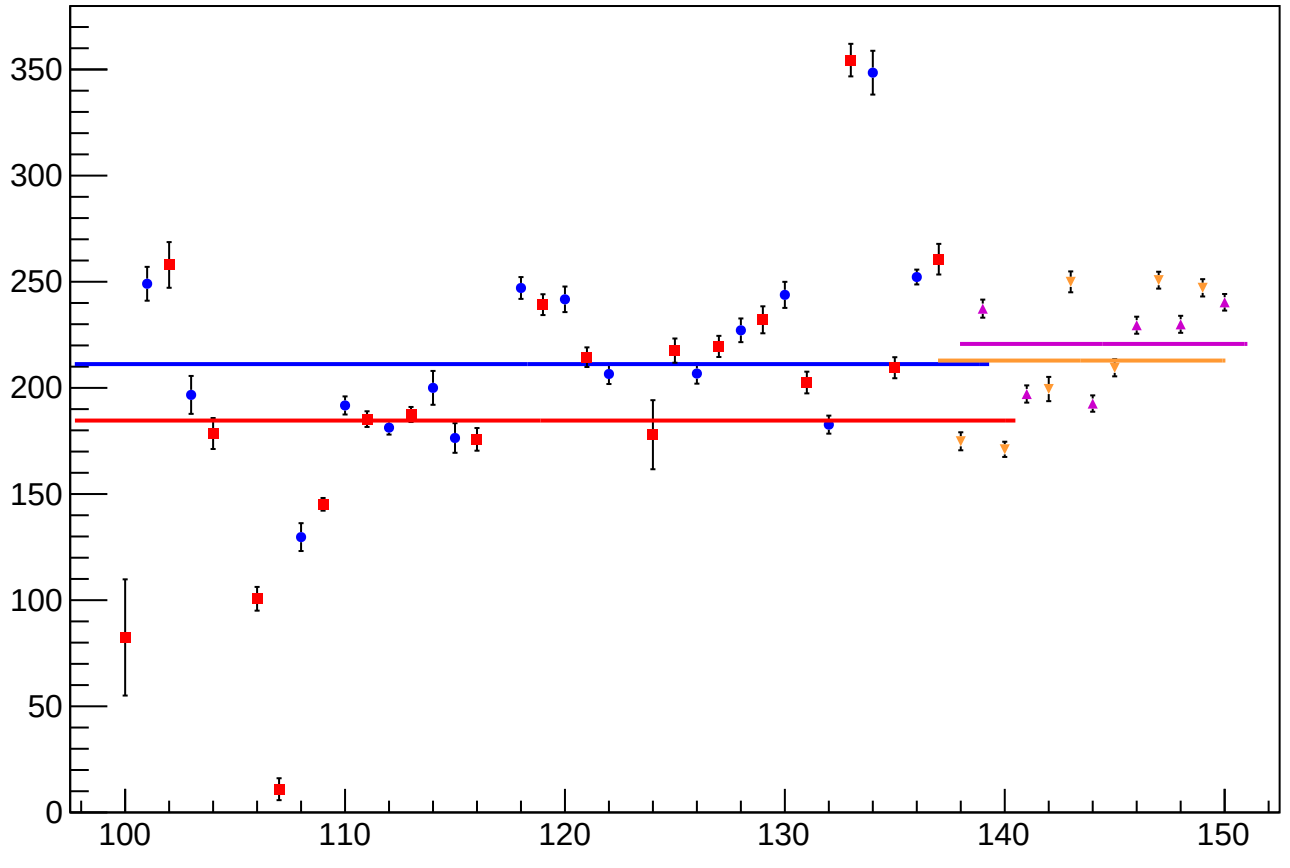
Left: -146.573+/-0.056 $\chi^2$/NDF: 78690.3/12

Right: -58.243+/-0.052 $\chi^2$/NDF: 2098582.3/34

In: -98.249+/-0.053 $\chi^2$/NDF:1904200.1/21

Out: -99.765+/-0.054 $\chi^2$/NDF:1608226.3/25

All: -98.995+/-0.038 $\chi^2$/NDF: 3512822.0/47




Right In: 211.210+/-1.296 $\chi^2$/NDF: 783.0/15

Left Out: 212.876+/-1.601 $\chi^2$/NDF:440.7/6

Right Out: 184.614+/-1.194 $\chi^2$/NDF: 2540.4/18

Left In: 220.710+/-1.637 $\chi^2$/NDF:137.5/5

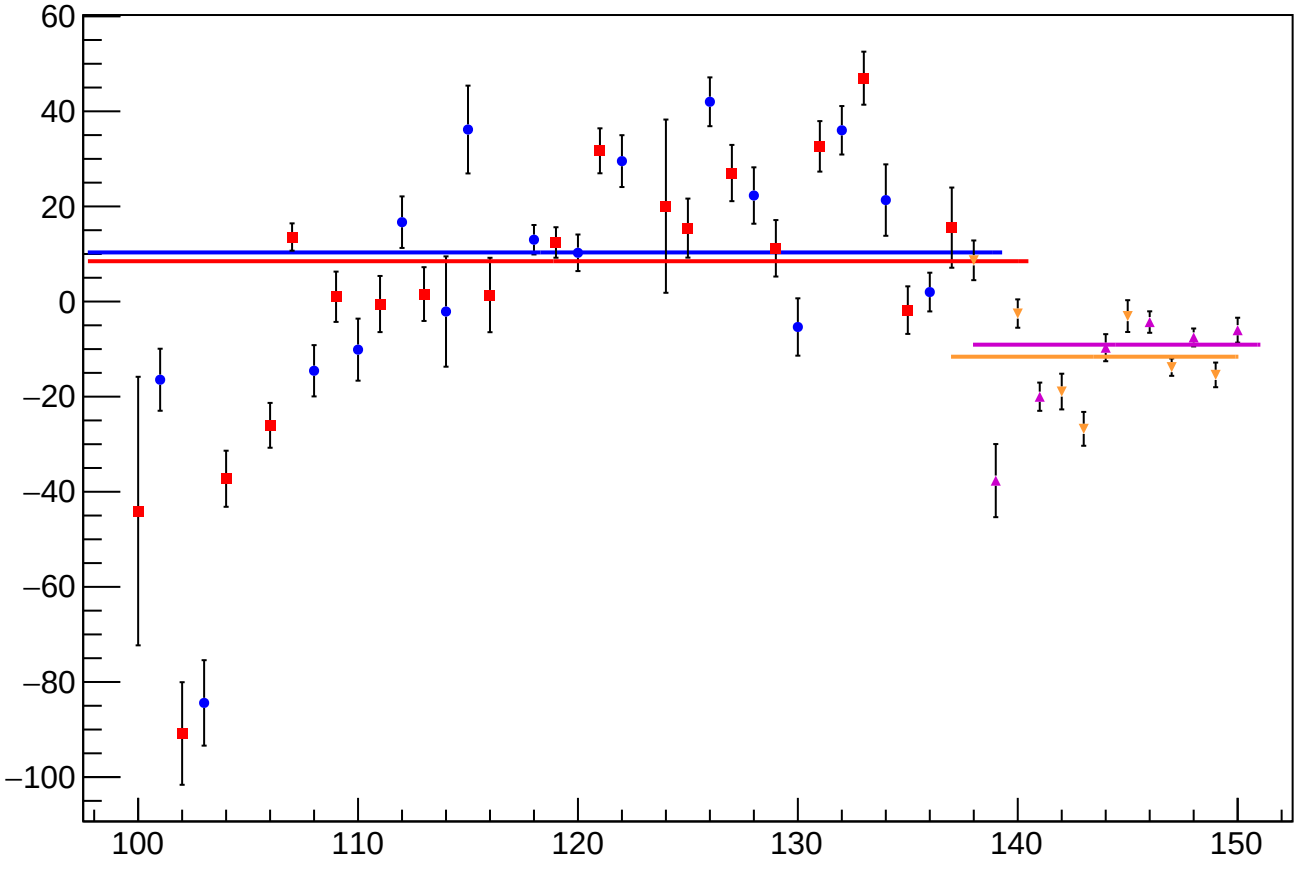
Left: 216.705+/-1.145 $\chi^2$/NDF: 589.9/12

Right: 196.825+/-0.878 $\chi^2$/NDF: 3551.2/34

In: 214.869+/-1.016 $\chi^2$/NDF:941.2/21

Out: 194.716+/-0.957 $\chi^2$/NDF:3181.4/25

All: 204.190+/-0.697 $\chi^2$/NDF: 4331.1/47


reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
60
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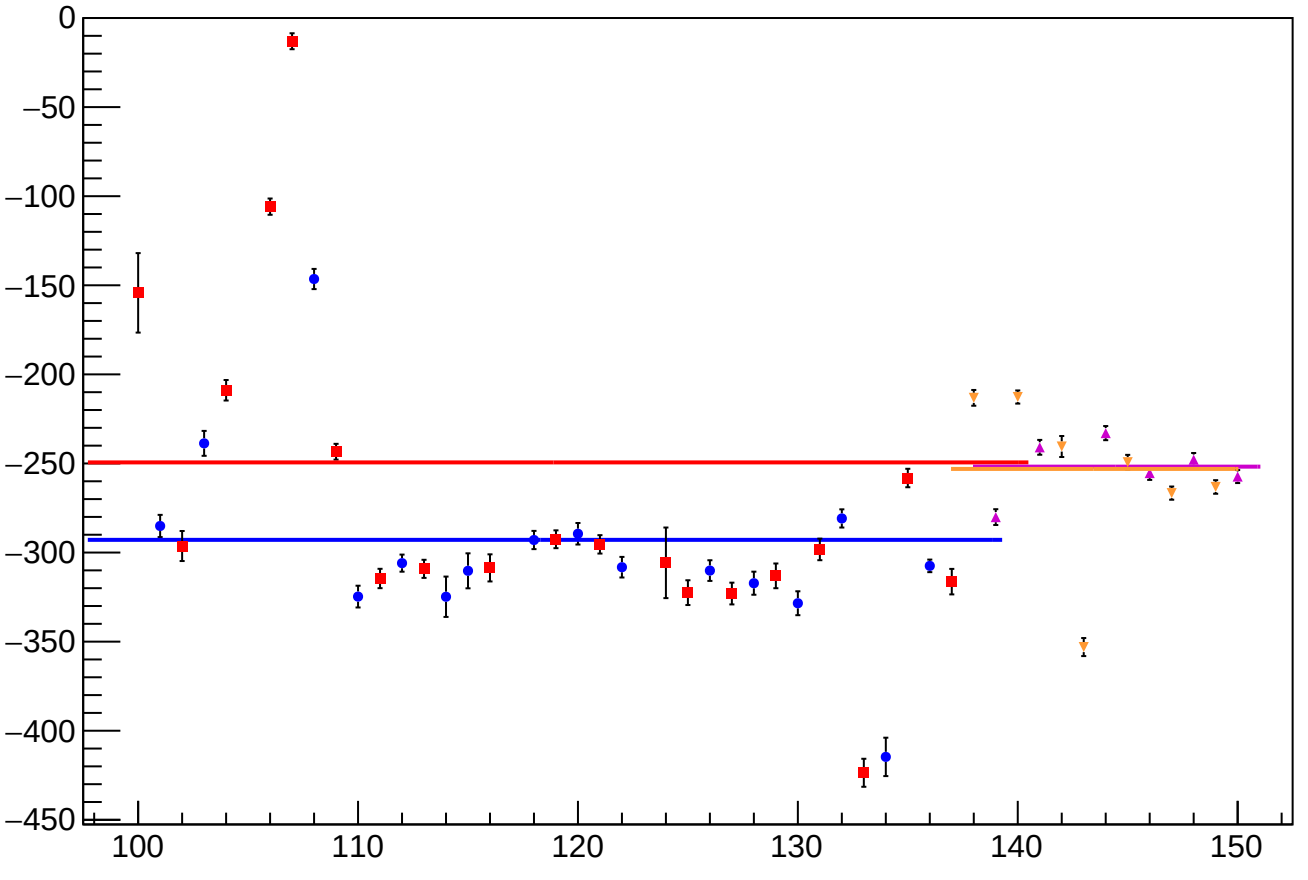
−100
100
110
120
130
140
150
Right In: 10.329+/-1.333 χ²/NDF: 263.3/15
Left Out: -11.599+/-1.080 χ²/NDF:64.9/6
Right Out: 8.480+/-1.225 χ²/NDF: 322.3/18
Left In: -9.070+/-1.068 χ²/NDF:33.9/5
Left: -10.321+/-0.759 χ²/NDF: 101.6/12
Right: 9.326+/-0.902 χ²/NDF: 586.7/34
In: -1.485+/-0.833 χ²/NDF:426.2/21
Out: -2.817+/-0.810 χ²/NDF:538.5/25
All: -2.170+/-0.581 χ²/NDF: 966.0/47




Right In: -292.872+/-1.467 $\chi^2$/NDF: 983.5/15

Left Out: -253.064+/-1.596 $\chi^2$/NDF:616.8/6

Right Out: -249.407+/-1.369 $\chi^2$/NDF: 5368.5/18

Left In: -251.787+/-1.610 $\chi^2$/NDF:74.3/5

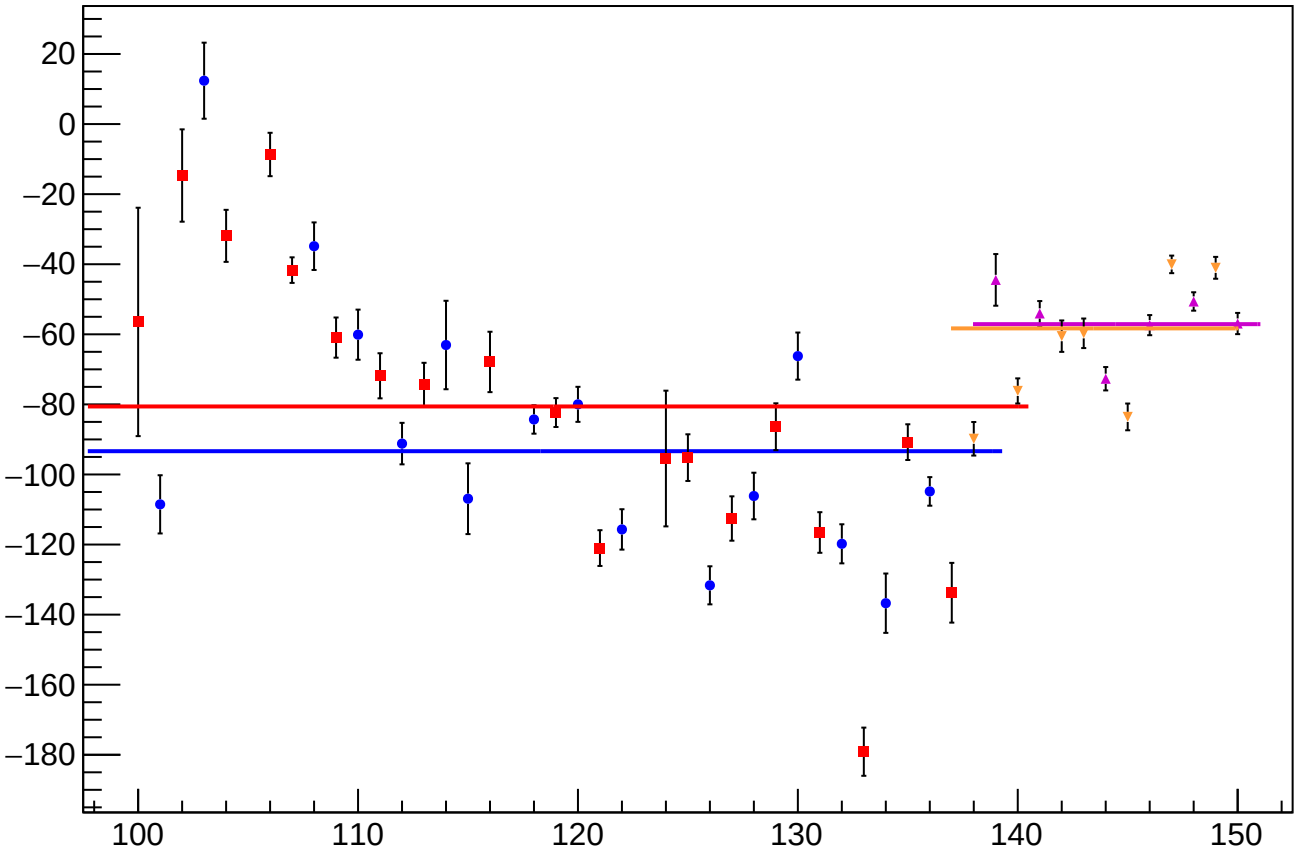
Left: -252.431+/-1.133 $\chi^2$/NDF: 691.4/12

Right: -269.627+/-1.001 $\chi^2$/NDF: 6821.1/34

In: -274.224+/-1.084 $\chi^2$/NDF:1413.5/21

Out: -250.957+/-1.039 $\chi^2$/NDF:5988.3/25

All: -262.092+/-0.750 $\chi^2$/NDF: 7641.9/47




Right In: -93.357+/-1.534 $\chi^2$/NDF: 355.3/15

Left Out: -58.312+/-1.339 $\chi^2$/NDF:196.1/6

Right Out: -80.592+/-1.424 $\chi^2$/NDF: 715.3/18

Left In: -57.101+/-1.332 $\chi^2$/NDF:31.6/5

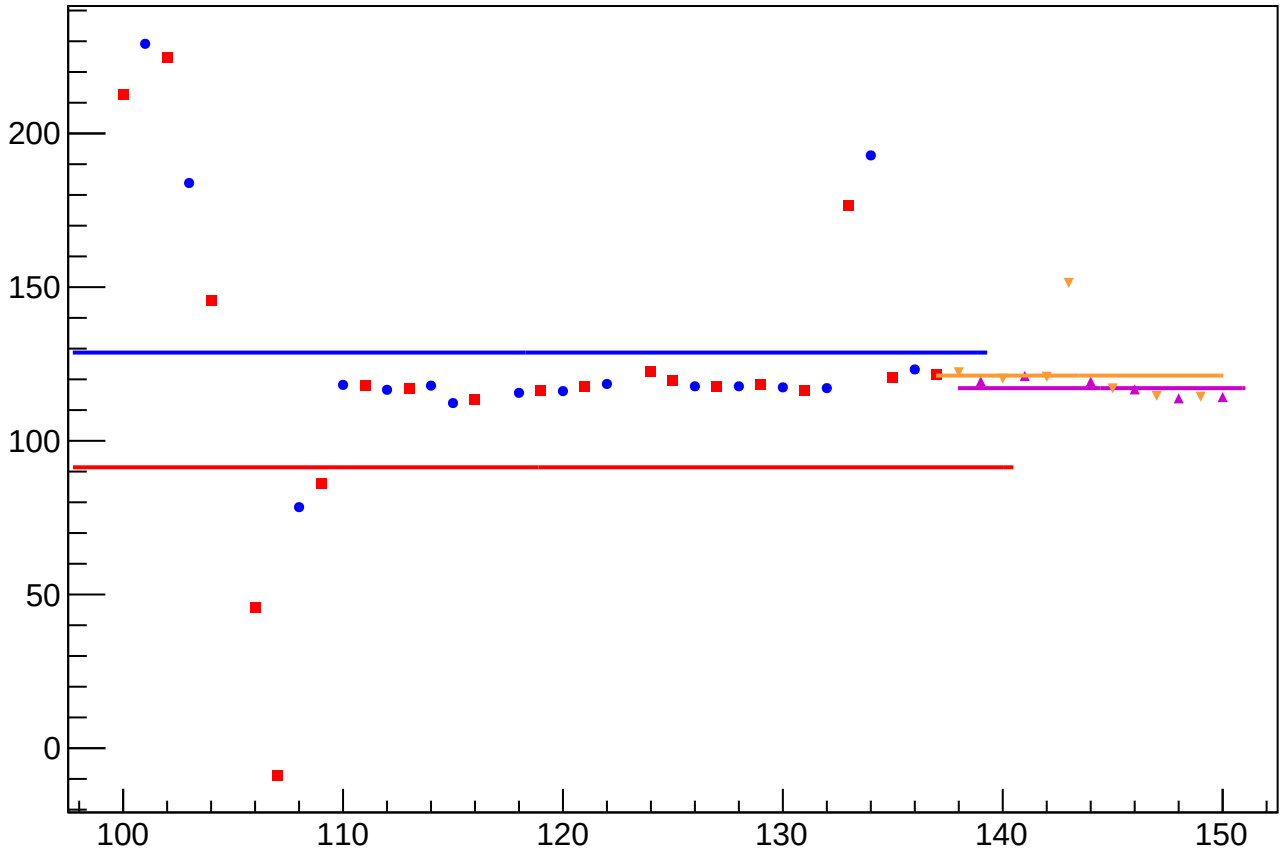
Left: -57.703+/-0.944 $\chi^2$/NDF: 228.1/12

Right: -86.499+/-1.044 $\chi^2$/NDF: 1107.8/34

In: -72.680+/-1.006 $\chi^2$/NDF:705.4/21

Out: -68.764+/-0.975 $\chi^2$/NDF:1041.4/25

All: -70.661+/-0.700 $\chi^2$/NDF: 1754.6/47




Right In: 128.715+/-0.089 $\chi^2$/NDF: 183522.8/15

Left Out: 121.224+/-0.067 $\chi^2$/NDF:24564.8/6

Right Out: 91.385+/-0.079 $\chi^2$/NDF: 604912.4/18

Left In: 117.136+/-0.066 $\chi^2$/NDF:1739.0/5

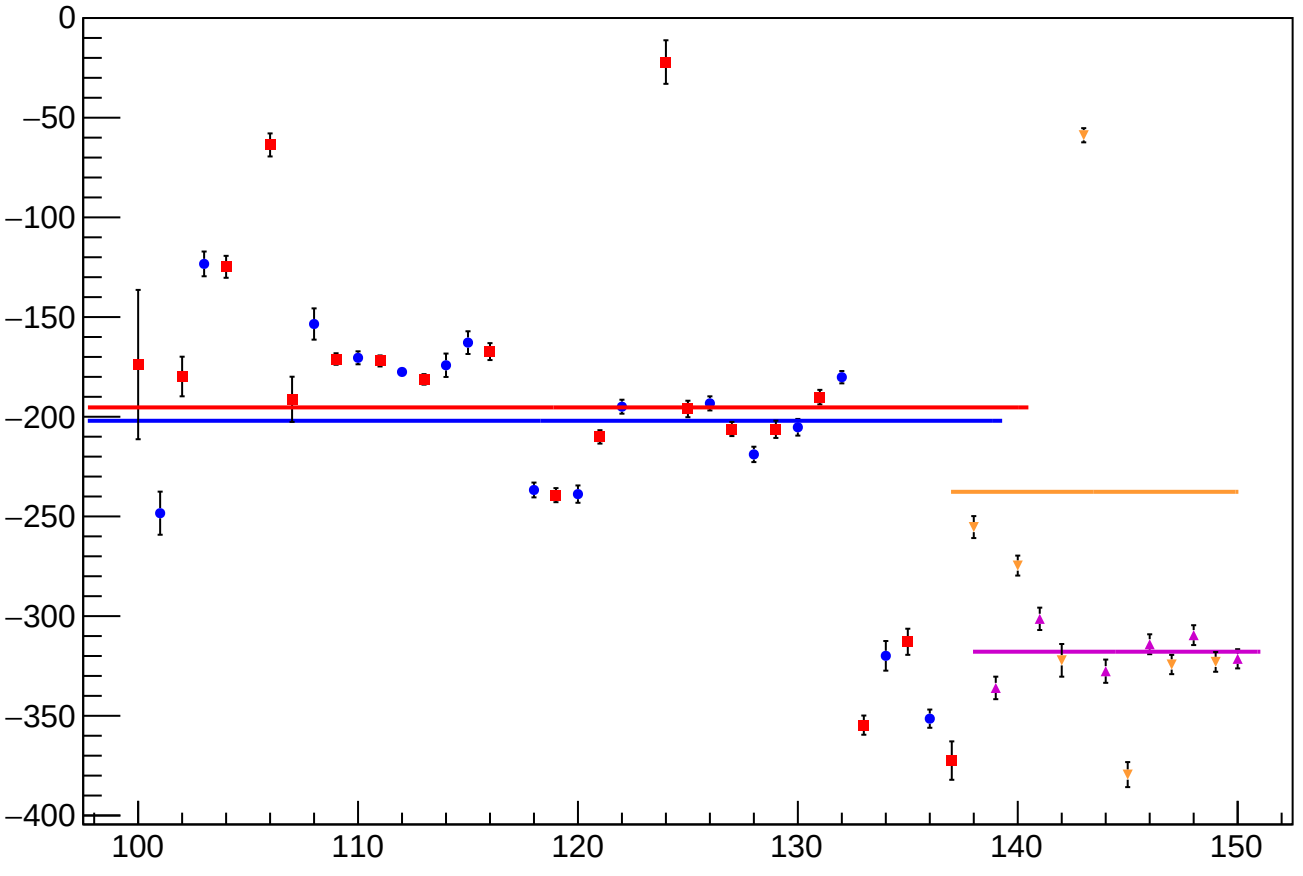
Left: 119.133+/-0.047 $\chi^2$/NDF: 28194.4/12

Right: 107.821+/-0.059 $\chi^2$/NDF: 886599.9/34

In: 121.214+/-0.053 $\chi^2$/NDF:196194.0/21

Out: 108.699+/-0.051 $\chi^2$/NDF:712133.2/25

All: 114.755+/-0.037 $\chi^2$/NDF: 937213.2/47




Right In: -202.020+/-1.024 $\chi^2$/NDF: 2040.4/15

Left Out: -237.649+/-1.904 $\chi^2$/NDF:3827.9/6

Right Out: -195.311+/-0.974 $\chi^2$/NDF: 3100.7/18

Left In: -317.854+/-2.151 $\chi^2$/NDF:25.7/5

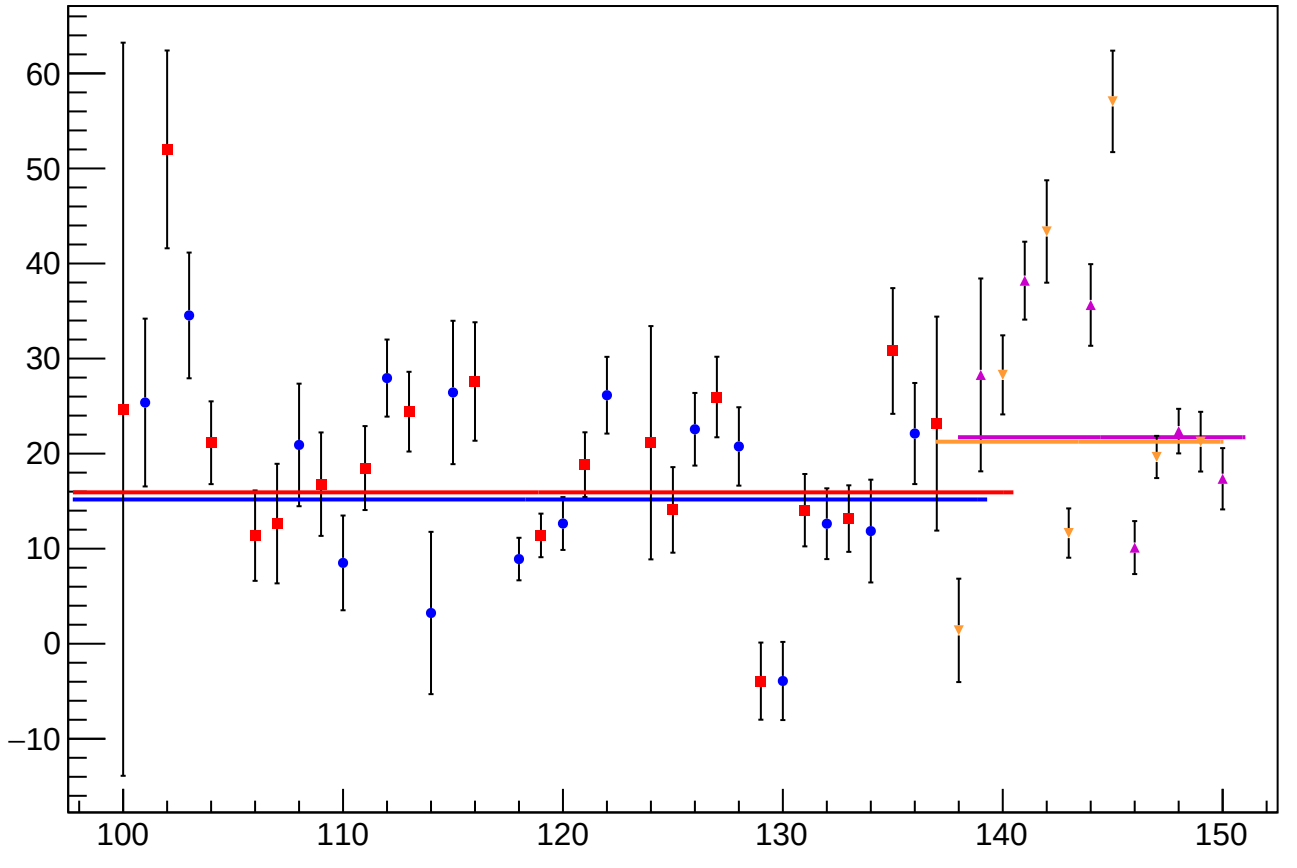
Left: -272.885+/-1.426 $\chi^2$/NDF: 4633.3/12

Right: -198.498+/-0.706 $\chi^2$/NDF: 5163.6/34

In: -223.428+/-0.925 $\chi^2$/NDF:4430.7/21

Out: -204.095+/-0.867 $\chi^2$/NDF:7320.5/25

All: -213.142+/-0.633 $\chi^2$/NDF: 11983.8/47




Right In: 15.175+/-1.048 $\chi^2$/NDF: 72.3/15

Left Out: 21.252+/-1.276 $\chi^2$/NDF:92.3/6

Right Out: 15.925+/-1.037 $\chi^2$/NDF: 63.5/18

Left In: 21.726+/-1.373 $\chi^2$/NDF:46.3/5

Left: 21.471+/-0.935 $\chi^2$/NDF: 138.7/12

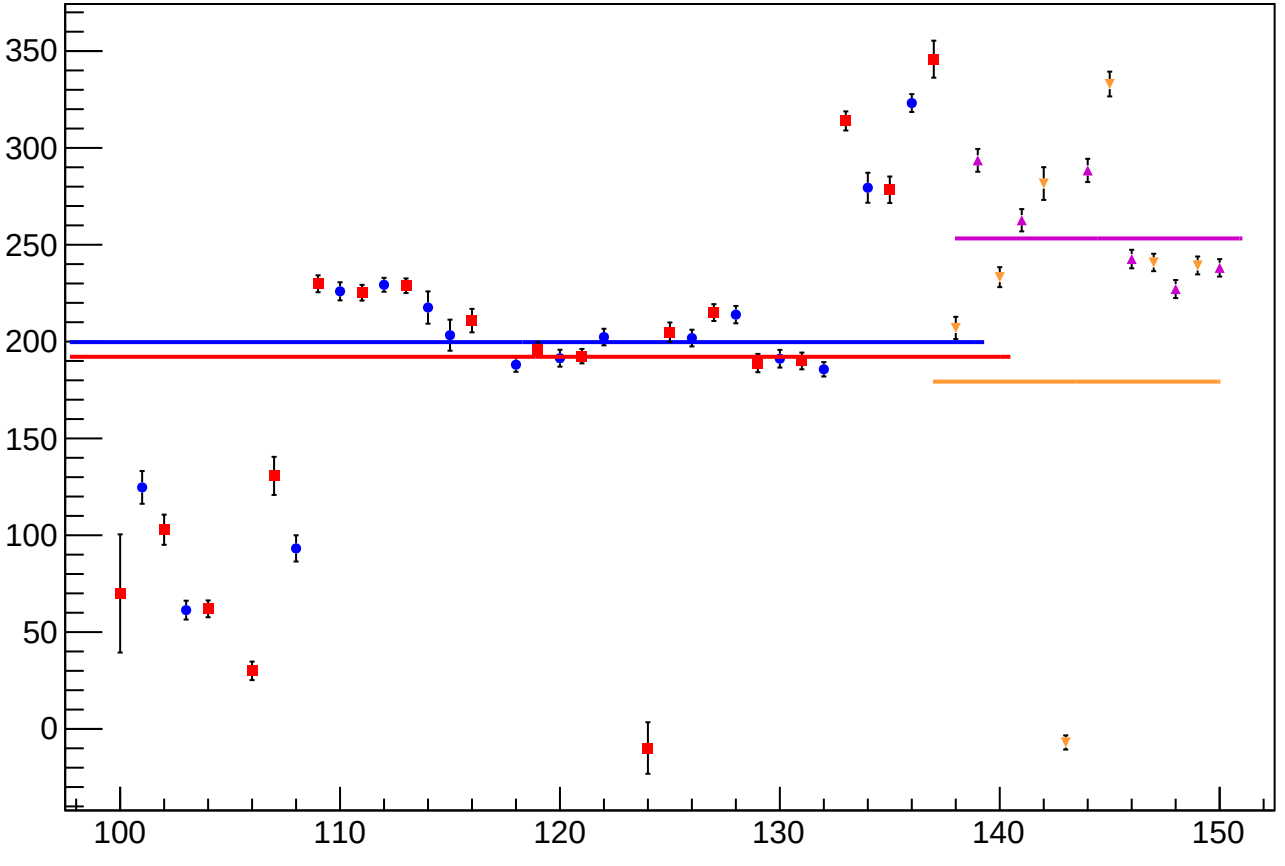
Right: 15.554+/-0.737 $\chi^2$/NDF: 136.1/34

In: 17.585+/-0.833 $\chi^2$/NDF:133.1/21

Out: 18.043+/-0.805 $\chi^2$/NDF:166.3/25

All: 17.822+/-0.579 $\chi^2$/NDF: 299.5/47

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 199.722+/-1.196 $\chi^2$/NDF: 2101.6/15

Left Out: 179.327+/-1.899 $\chi^2$/NDF:3802.9/6

Right Out: 192.156+/-1.150 $\chi^2$/NDF: 3777.1/18

Left In: 253.256+/-2.103 $\chi^2$/NDF:131.6/5

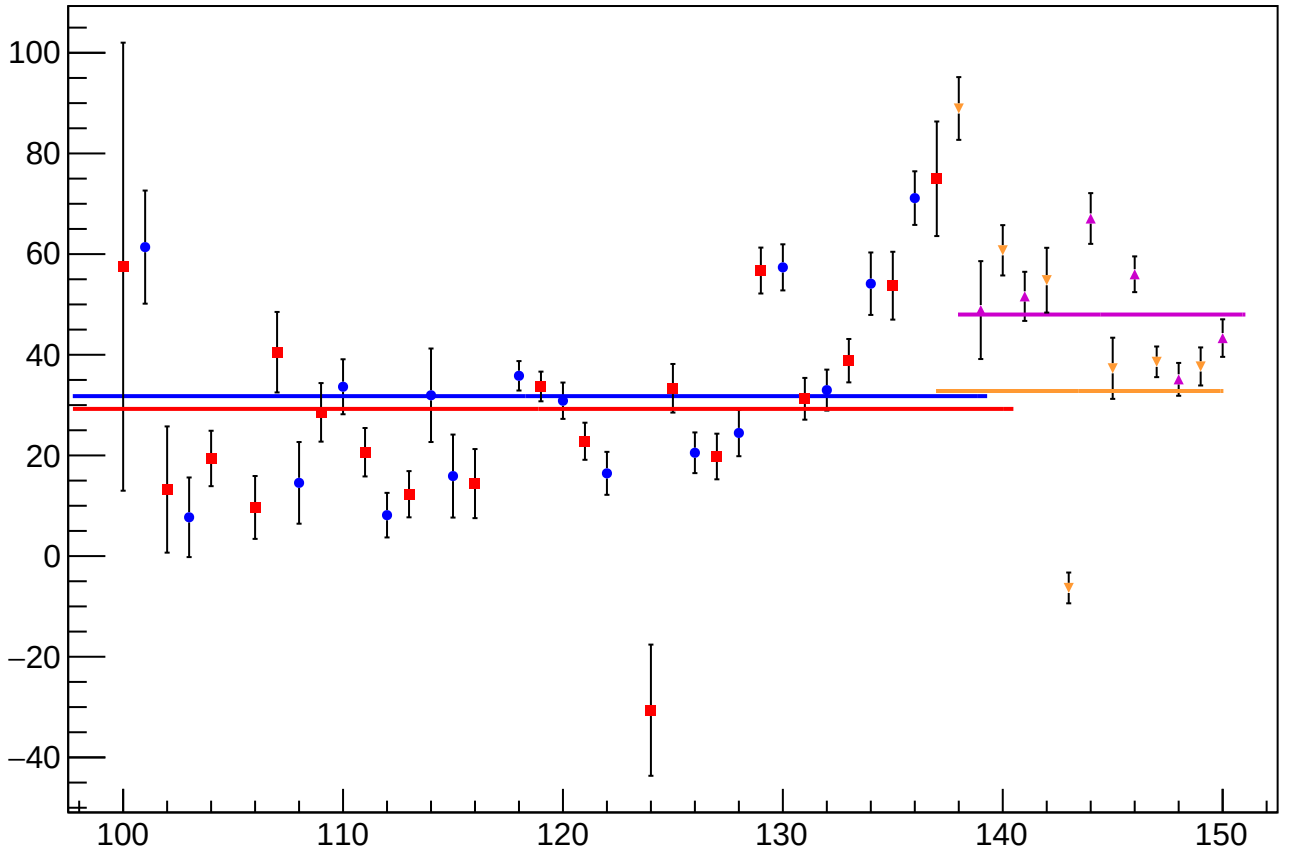
Left: 212.538+/-1.409 $\chi^2$/NDF: 4615.3/12

Right: 195.793+/-0.829 $\chi^2$/NDF: 5899.5/34

In: 212.803+/-1.039 $\chi^2$/NDF:2723.0/21

Out: 188.712+/-0.984 $\chi^2$/NDF:7613.4/25

All: 200.098+/-0.715 $\chi^2$/NDF: 10619.7/47




Right In: 31.782+/-1.217 $\chi^2$/NDF: 177.0/15

Left Out: 32.802+/-1.578 $\chi^2$/NDF:293.6/6

Right Out: 29.245+/-1.197 $\chi^2$/NDF: 140.9/18

Left In: 47.994+/-1.723 $\chi^2$/NDF:37.1/5

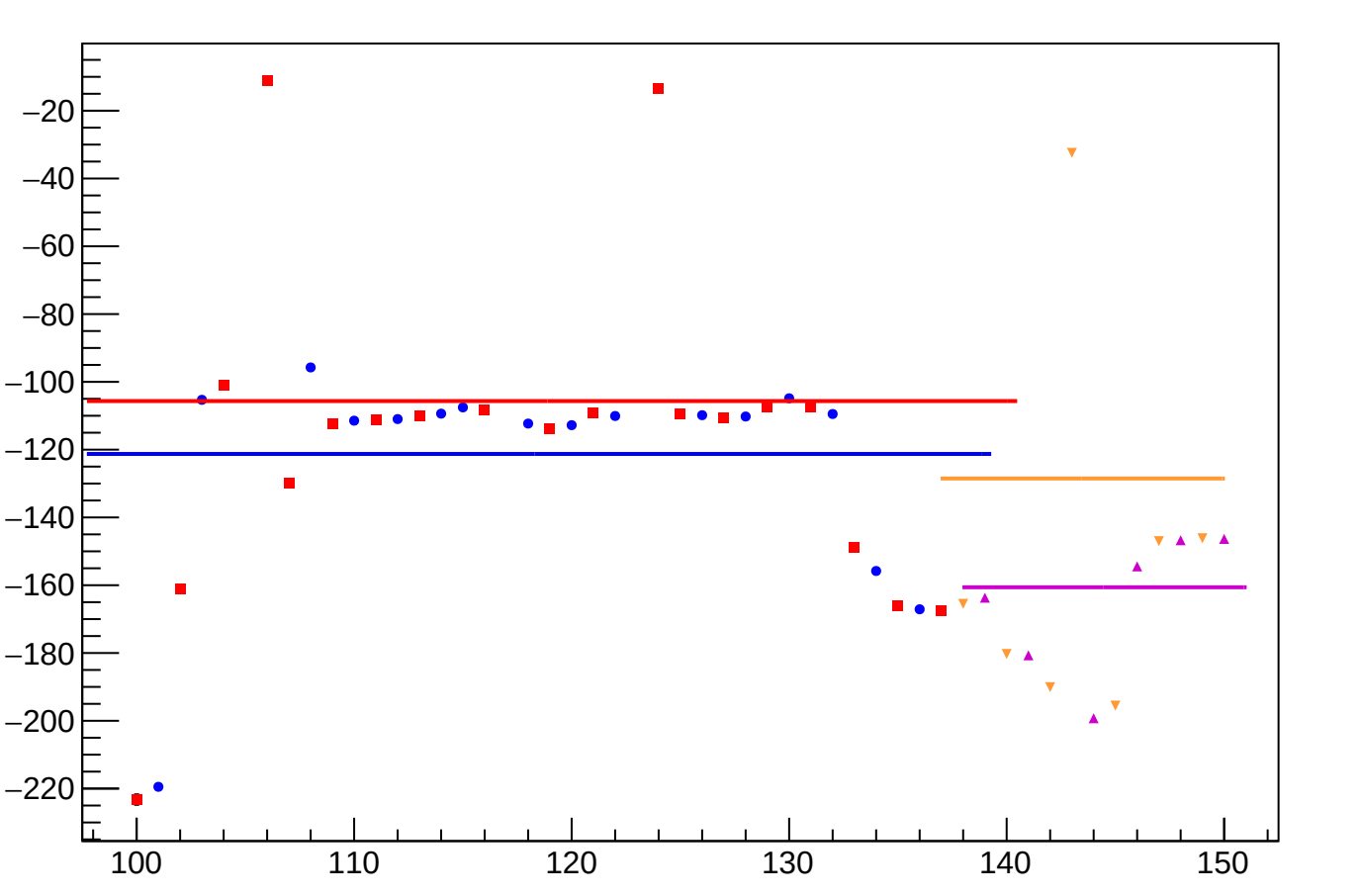
Left: 39.734+/-1.163 $\chi^2$/NDF: 373.0/12

Right: 30.492+/-0.853 $\chi^2$/NDF: 320.1/34

In: 37.178+/-0.994 $\chi^2$/NDF:273.2/21

Out: 30.544+/-0.953 $\chi^2$/NDF:437.7/25

All: 33.723+/-0.688 $\chi^2$/NDF: 734.1/47




Right In: -121.268+/-0.079 $\chi^2$/NDF: 119398.5/15

Left Out: -128.511+/-0.080 $\chi^2$/NDF:594509.5/6

Right Out: -105.660+/-0.075 $\chi^2$/NDF: 355093.7/18

Left In: -160.603+/-0.086 $\chi^2$/NDF:40488.9/5

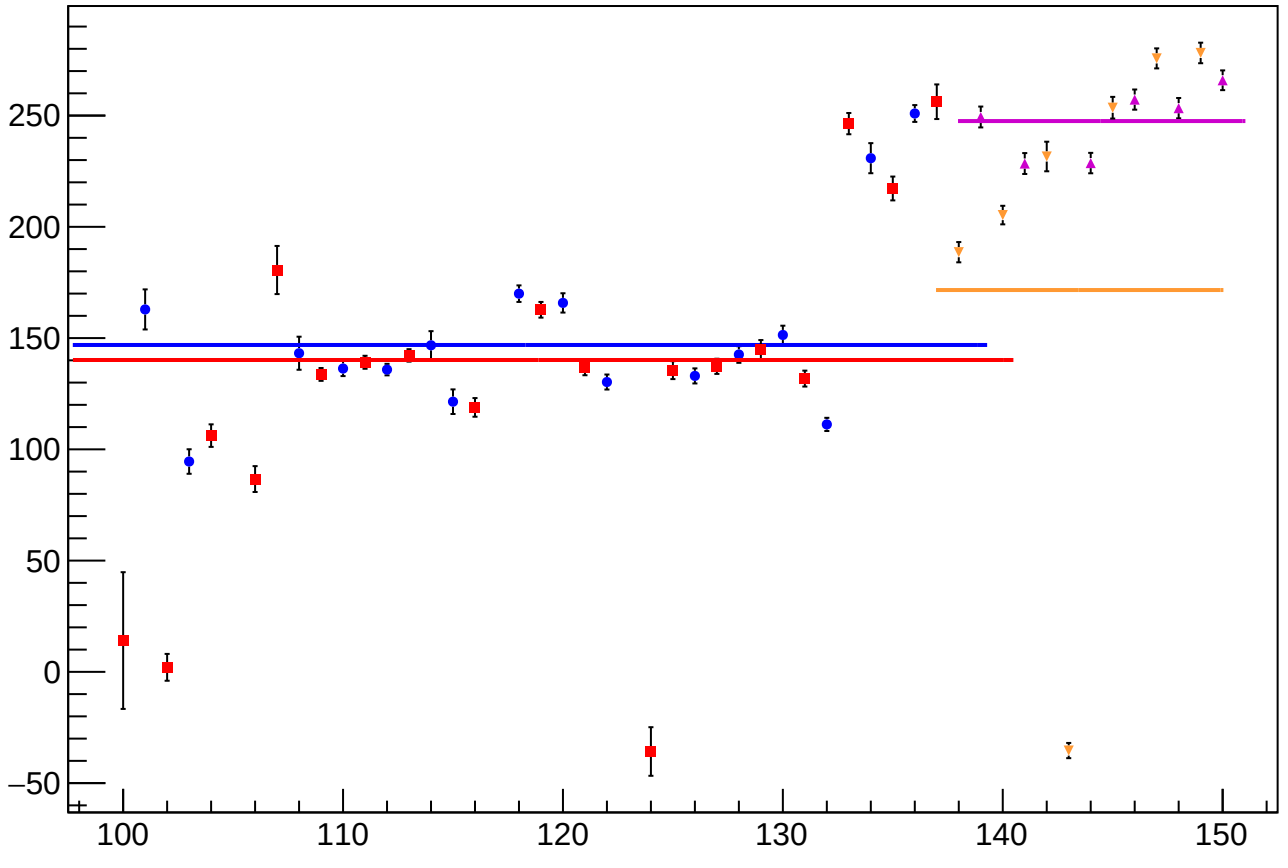
Left: -143.457+/-0.058 $\chi^2$/NDF: 710012.1/12

Right: -113.006+/-0.054 $\chi^2$/NDF: 495037.6/34

In: -139.405+/-0.058 $\chi^2$/NDF:273558.2/21

Out: -116.310+/-0.055 $\chi^2$/NDF:993209.7/25

All: -127.127+/-0.040 $\chi^2$/NDF: 1350609.4/47




Right In: 146.905+/-1.003 $\chi^2$/NDF: 1302.0/15

Left Out: 171.596+/-1.685 $\chi^2$/NDF:5176.0/6

Right Out: 140.153+/-0.960 $\chi^2$/NDF: 1950.6/18

Left In: 247.534+/-1.871 $\chi^2$/NDF:56.8/5

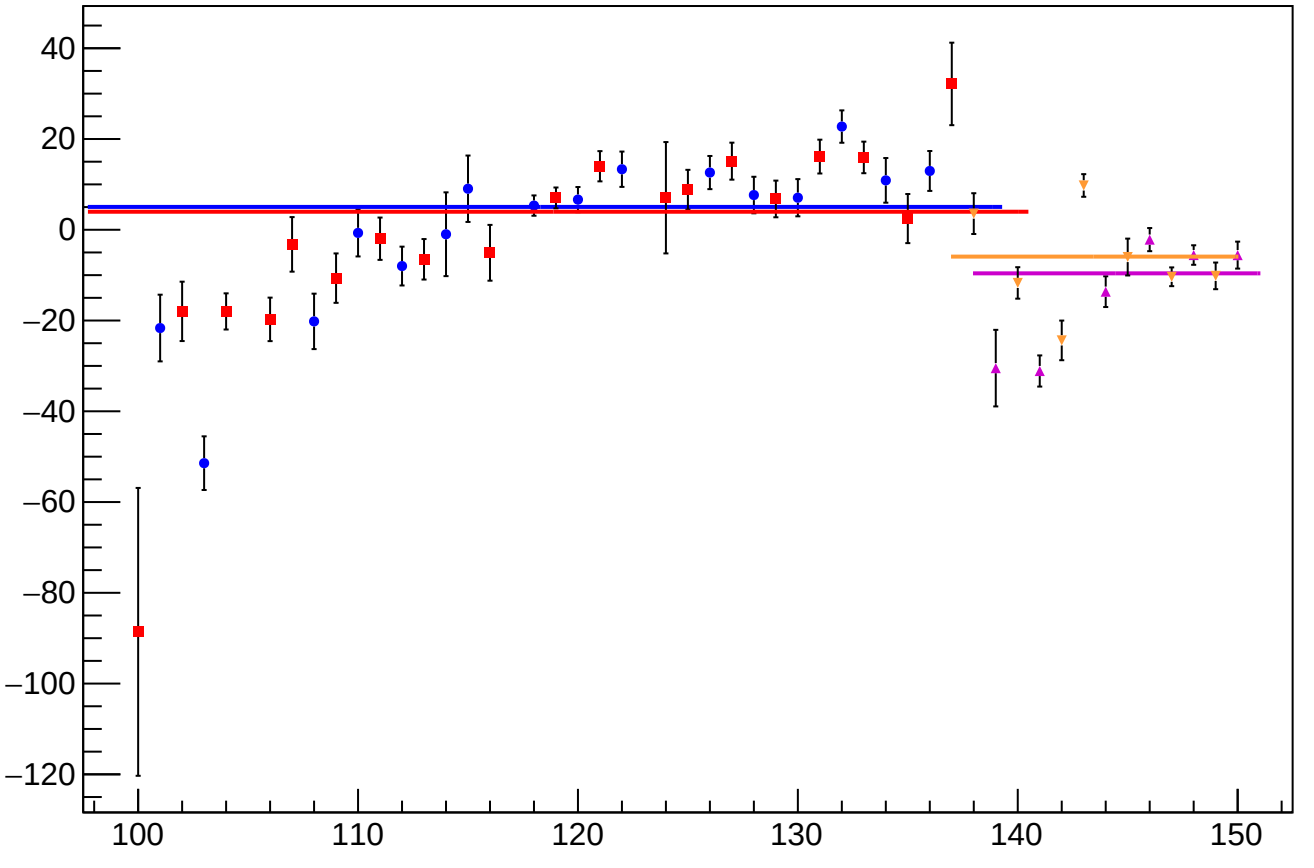
Left: 205.595+/-1.252 $\chi^2$/NDF: 6142.4/12

Right: 143.381+/-0.694 $\chi^2$/NDF: 3276.2/34

In: 169.376+/-0.884 $\chi^2$/NDF:3605.2/21

Out: 147.860+/-0.834 $\chi^2$/NDF:7389.5/25

All: 157.992+/-0.607 $\chi^2$/NDF: 11308.0/47




Right In: 5.037+/-1.021 $\chi^2$/NDF: 171.9/15

Left Out: -5.914+/-1.150 $\chi^2$/NDF:71.3/6

Right Out: 3.974+/-1.012 $\chi^2$/NDF: 144.9/18

Left In: -9.603+/-1.223 $\chi^2$/NDF:60.7/5

Left: -7.645+/-0.837 $\chi^2$/NDF: 136.8/12

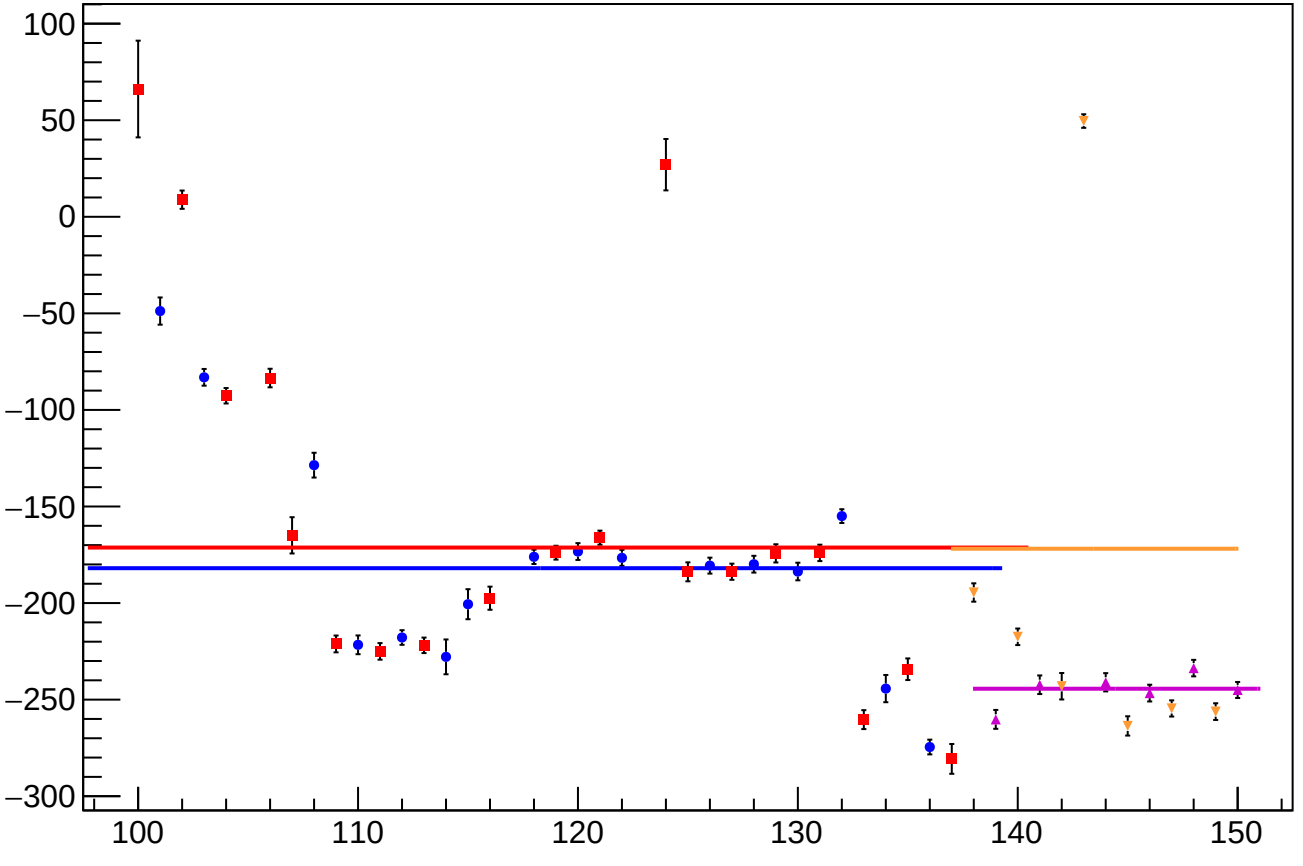
Right: 4.501+/-0.719 $\chi^2$/NDF: 317.3/34

In: -0.977+/-0.784 $\chi^2$/NDF:317.0/21

Out: -0.343+/-0.760 $\chi^2$/NDF:257.9/25

All: -0.650+/-0.545 $\chi^2$/NDF: 575.3/47

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -181.947+/-1.154 $\chi^2$/NDF: 1870.4/15

Left Out: -171.858+/-1.687 $\chi^2$/NDF:5316.9/6

Right Out: -171.262+/-1.111 $\chi^2$/NDF: 3628.2/18

Left In: -244.353+/-1.839 $\chi^2$/NDF:17.8/5

Left: -204.984+/-1.243 $\chi^2$/NDF: 6178.6/12

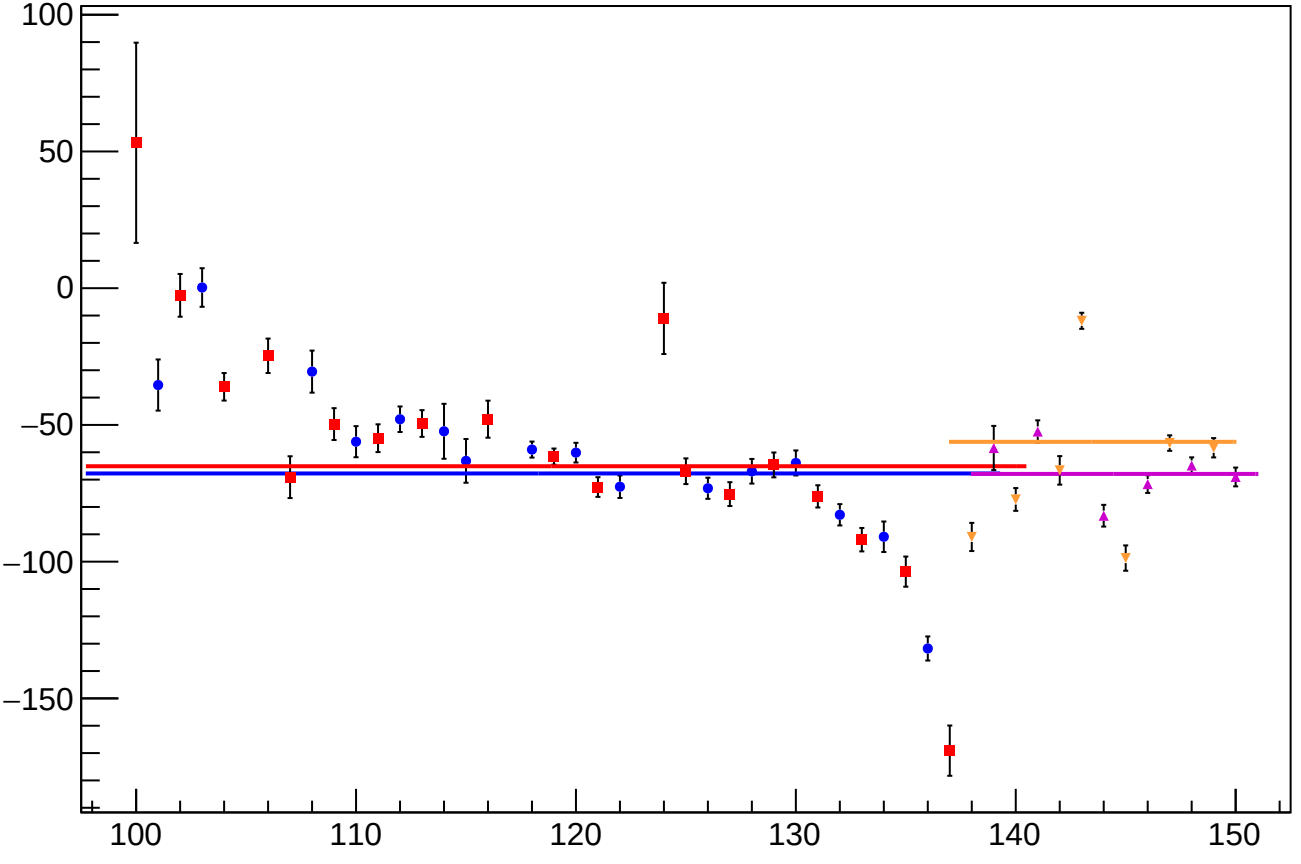
Right: -176.402+/-0.800 $\chi^2$/NDF: 5543.1/34

In: -199.577+/-0.977 $\chi^2$/NDF:2714.4/21

Out: -171.442+/-0.928 $\chi^2$/NDF:8945.2/25

All: -184.778+/-0.673 $\chi^2$/NDF: 12095.4/47

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -67.745+/-1.181 $\chi^2$/NDF: 414.0/15

Left Out: -56.178+/-1.416 $\chi^2$/NDF:386.5/6

Right Out: -65.105+/-1.167 $\chi^2$/NDF: 429.0/18

Left In: -67.915+/-1.525 $\chi^2$/NDF:33.0/5

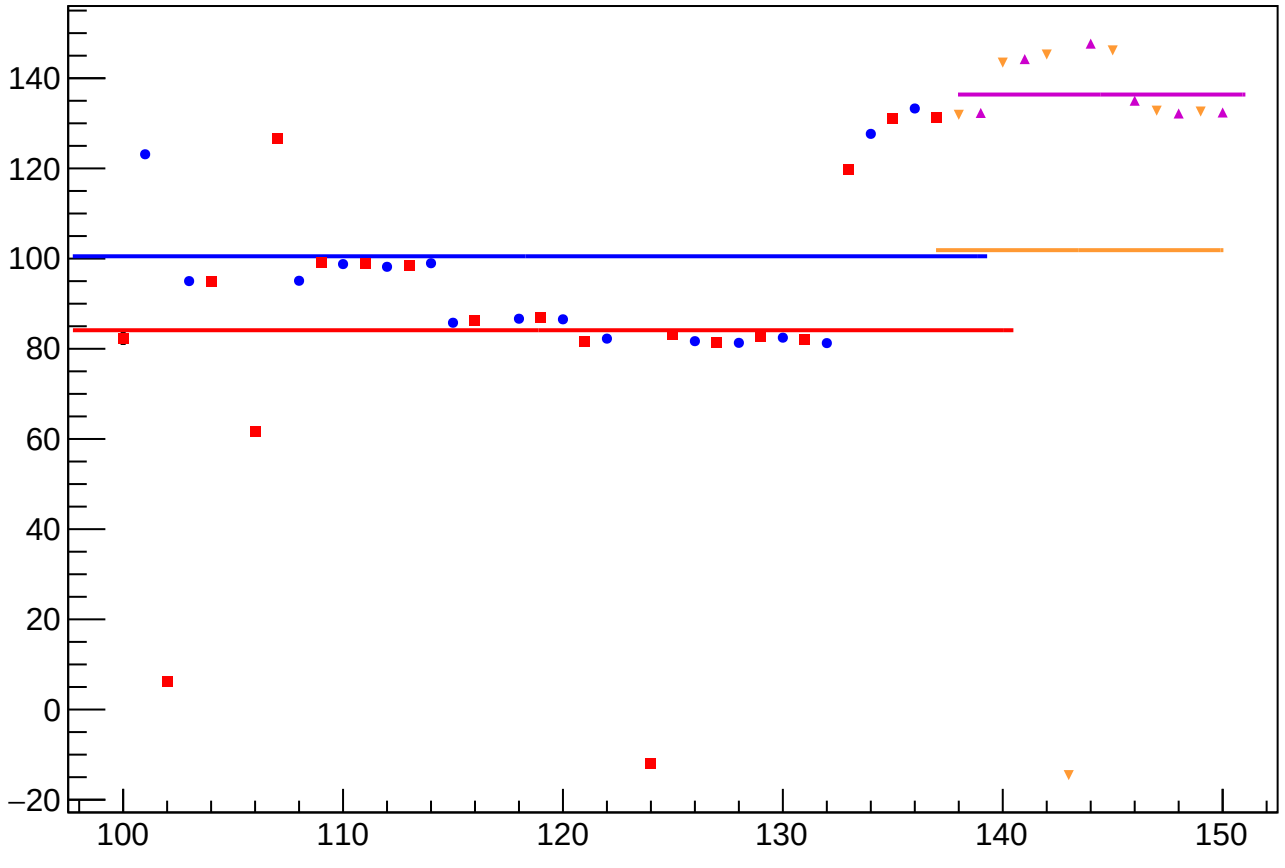
Left: -61.610+/-1.038 $\chi^2$/NDF: 451.3/12

Right: -66.409+/-0.830 $\chi^2$/NDF: 845.6/34

In: -67.809+/-0.934 $\chi^2$/NDF:447.1/21

Out: -61.495+/-0.900 $\chi^2$/NDF:839.2/25

All: -64.537+/-0.648 $\chi^2$/NDF: 1310.0/47




Right In: 100.517+/-0.074 $\chi^2$/NDF: 67464.8/15

Left Out: 101.870+/-0.071 $\chi^2$/NDF:838195.7/6

Right Out: 84.116+/-0.069 $\chi^2$/NDF: 263788.9/18

Left In: 136.382+/-0.075 $\chi^2$/NDF:6188.4/5

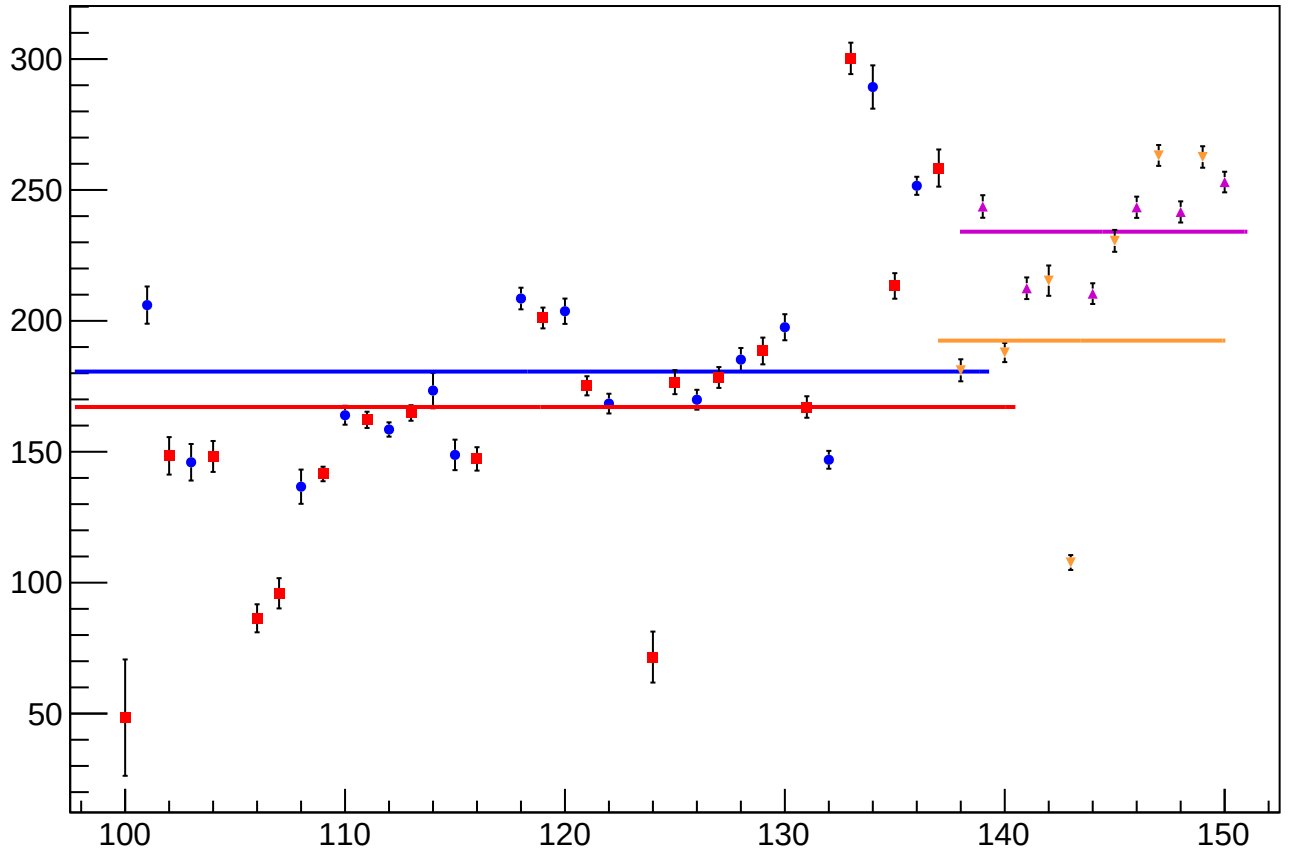
Left: 118.179+/-0.051 $\chi^2$/NDF: 956406.6/12

Right: 91.772+/-0.051 $\chi^2$/NDF: 357470.2/34

In: 118.227+/-0.053 $\chi^2$/NDF:189760.8/21

Out: 92.781+/-0.050 $\chi^2$/NDF:1134103.1/25

All: 104.731+/-0.036 $\chi^2$/NDF: 1447879.8/47




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 192.452+/-1.468 $\chi^2$/NDF:1603.5/6

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 234.057+/-1.661 $\chi^2$/NDF:99.9/5

Left: 210.698+/-1.100 $\chi^2$/NDF: 2055.7/12

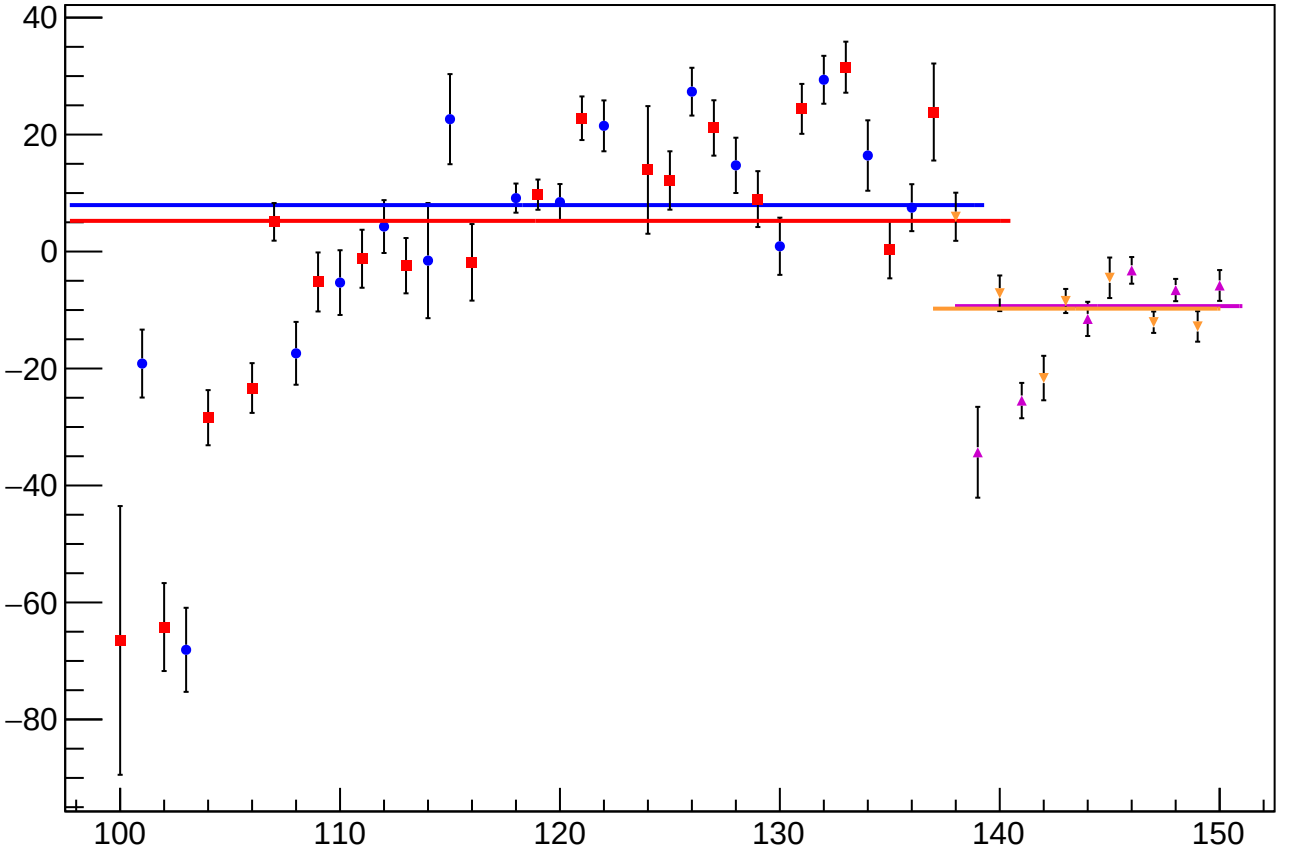
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.709+/-0.911 $\chi^2$/NDF:1816.6/21

Out: 175.365+/-0.838 $\chi^2$/NDF:3289.1/25

All: 185.148+/-0.617 $\chi^2$/NDF: 5403.0/47

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: -9.763+/-1.000 $\chi^2$/NDF:30.8/6

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -9.330+/-1.081 $\chi^2$/NDF:50.5/5

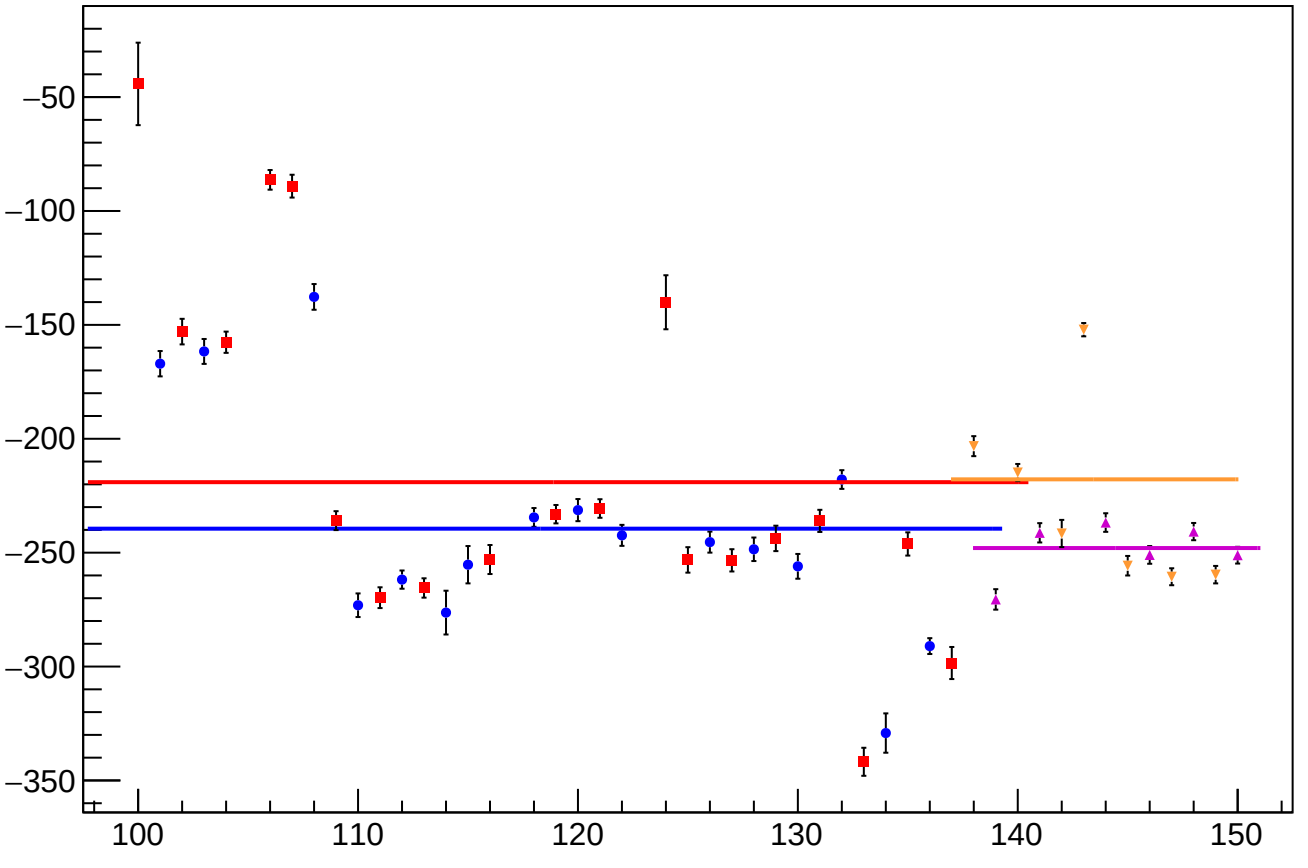
Left: -9.563+/-0.734 $\chi^2$/NDF: 81.4/12

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: -0.944+/-0.776 $\chi^2$/NDF:407.3/21

Out: -2.711+/-0.728 $\chi^2$/NDF:439.5/25

All: -1.883+/-0.531 $\chi^2$/NDF: 849.6/47




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -217.814+/-1.471 $\chi^2$/NDF:862.2/6

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -247.975+/-1.632 $\chi^2$/NDF:40.2/5

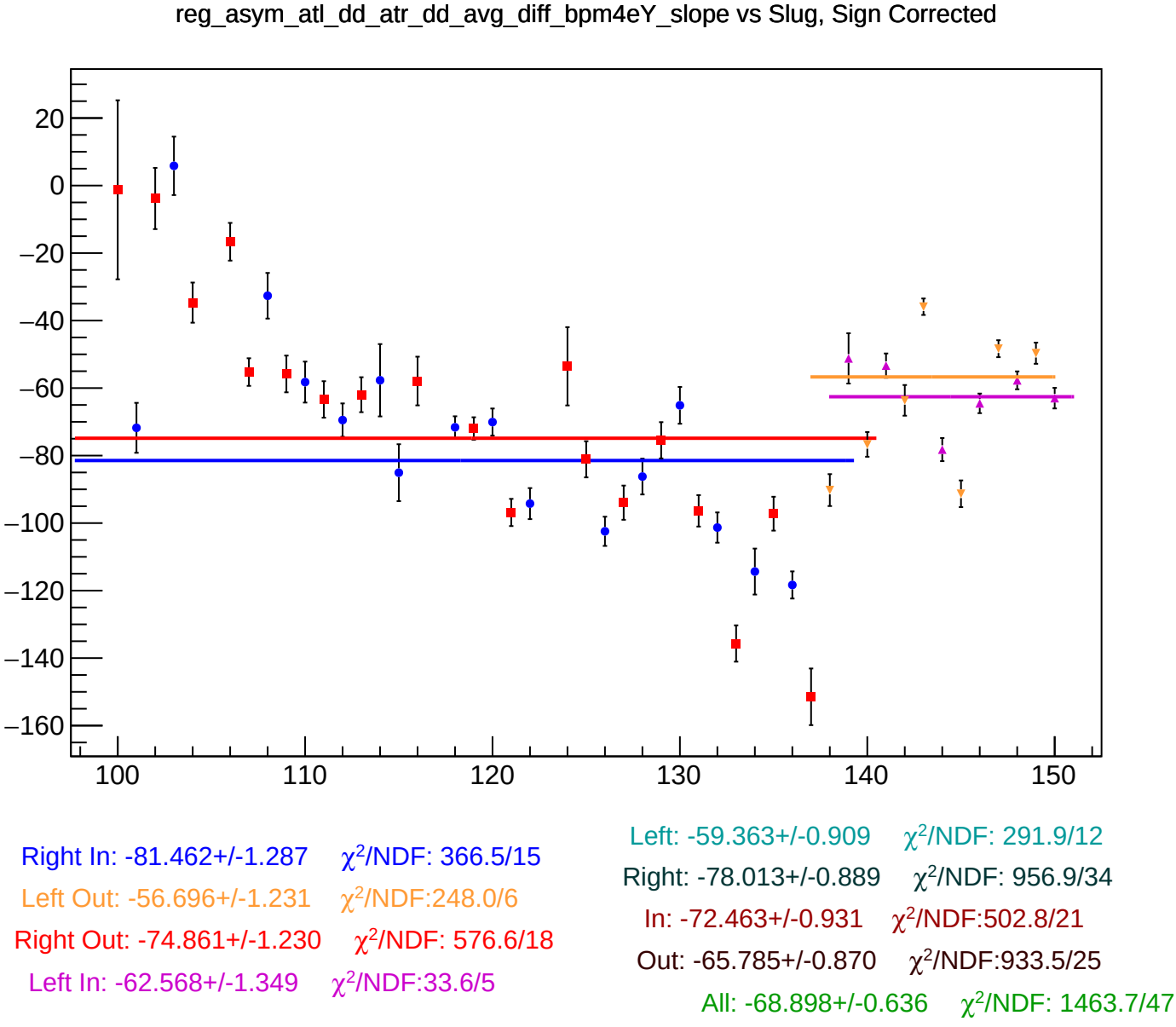
Left: -231.333+/-1.093 $\chi^2$/NDF: 1090.8/12

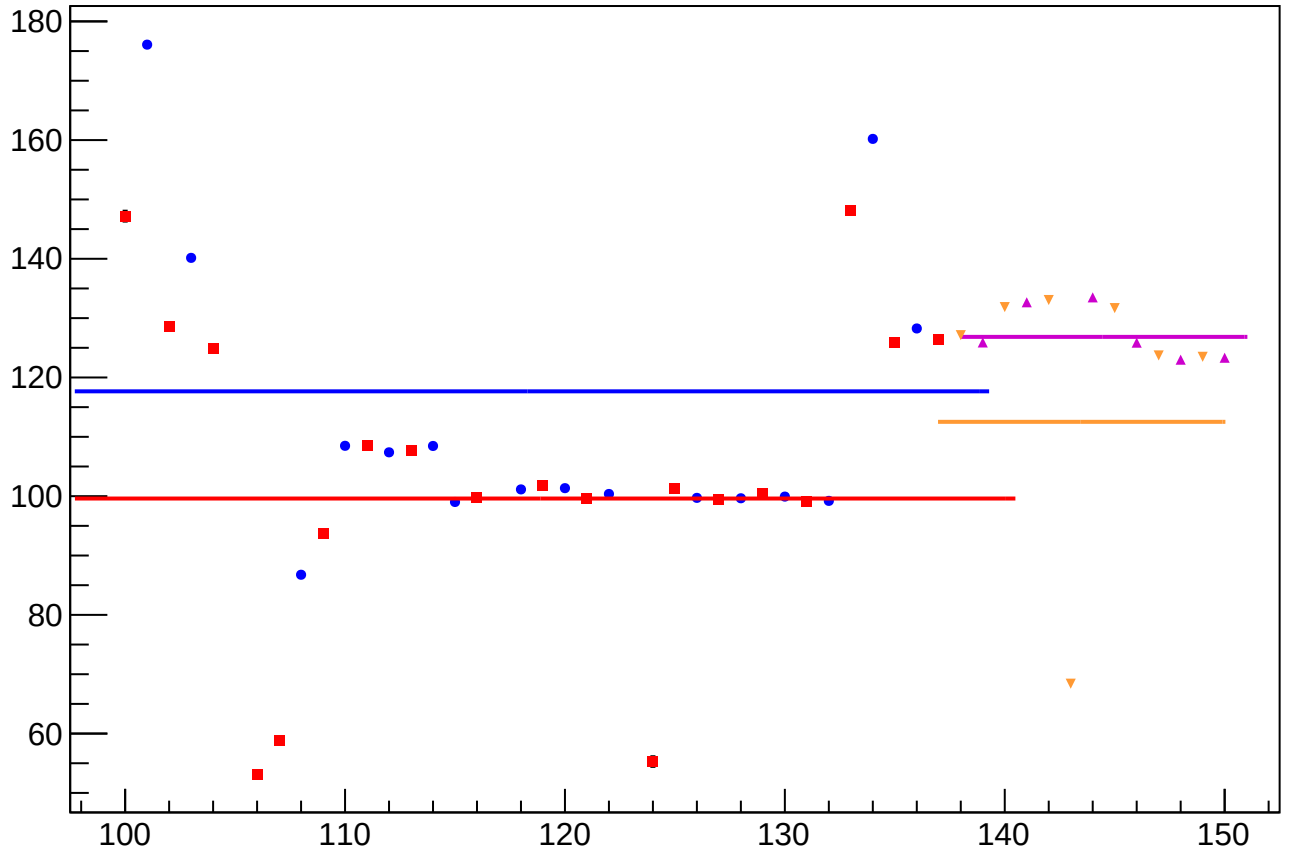
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -242.598+/-0.990 $\chi^2$/NDF:1219.6/21

Out: -218.570+/-0.919 $\chi^2$/NDF:3911.9/25

All: -229.687+/-0.673 $\chi^2$/NDF: 5448.0/47


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
20
0
−20
−40
−60
−80
−100
−120
−140
−160
100
110
120
130
140
150
Right In: -81.462+/-1.287 χ²/NDF: 366.5/15
Left Out: -56.696+/-1.231 χ²/NDF:248.0/6
Right Out: -74.861+/-1.230 χ²/NDF: 576.6/18
Left In: -62.568+/-1.349 χ²/NDF:33.6/5
Left: -59.363+/-0.909 χ²/NDF: 291.9/12
Right: -78.013+/-0.889 χ²/NDF: 956.9/34
In: -72.463+/-0.931 χ²/NDF:502.8/21
Out: -65.785+/-0.870 χ²/NDF:933.5/25
All: -68.898+/-0.636 χ²/NDF: 1463.7/47




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 112.528+/-0.062 $\chi^2$/NDF:180547.0/6

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 126.842+/-0.067 $\chi^2$/NDF:3708.8/5

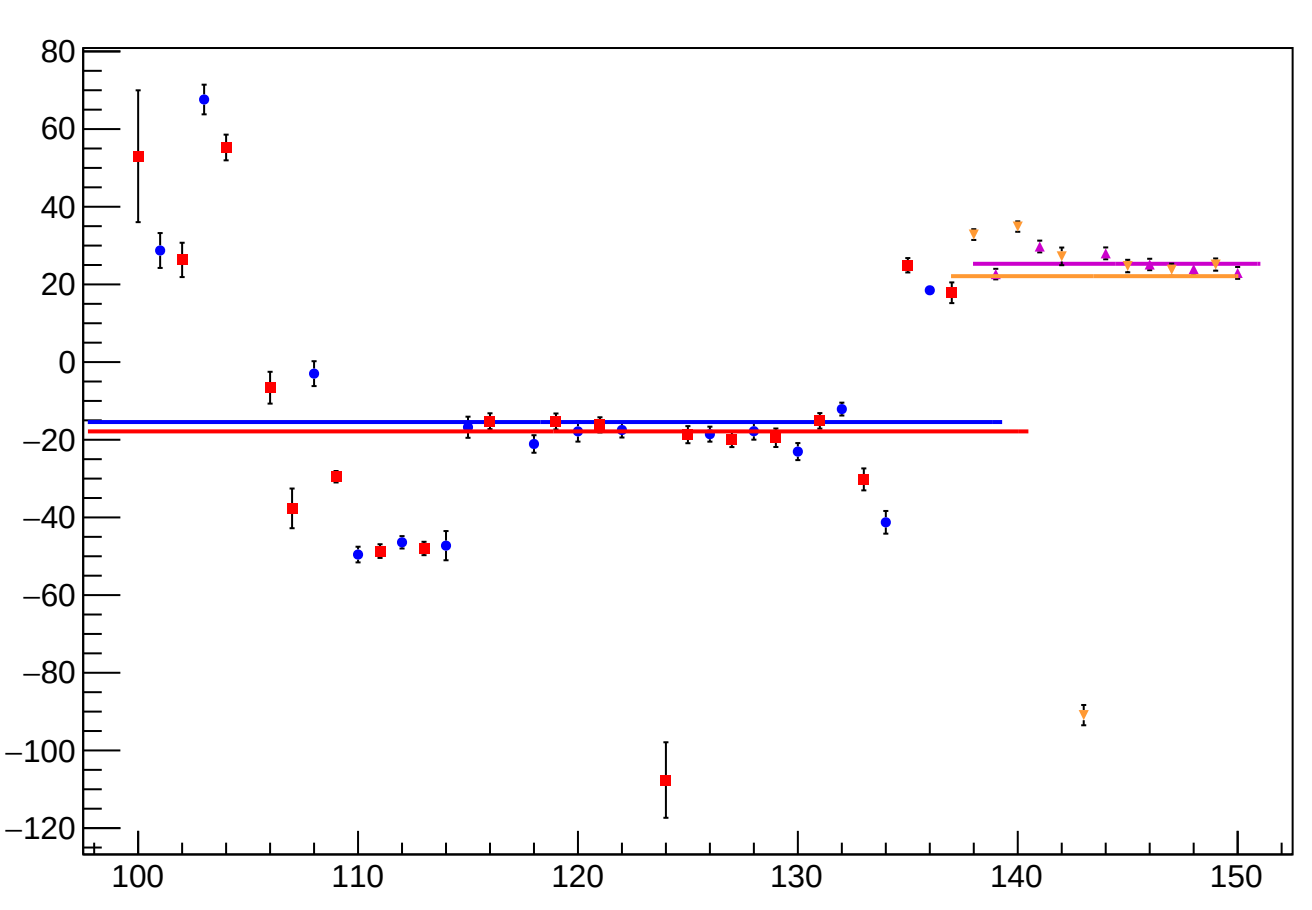
Left: 119.157+/-0.045 $\chi^2$/NDF: 209036.3/12

Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

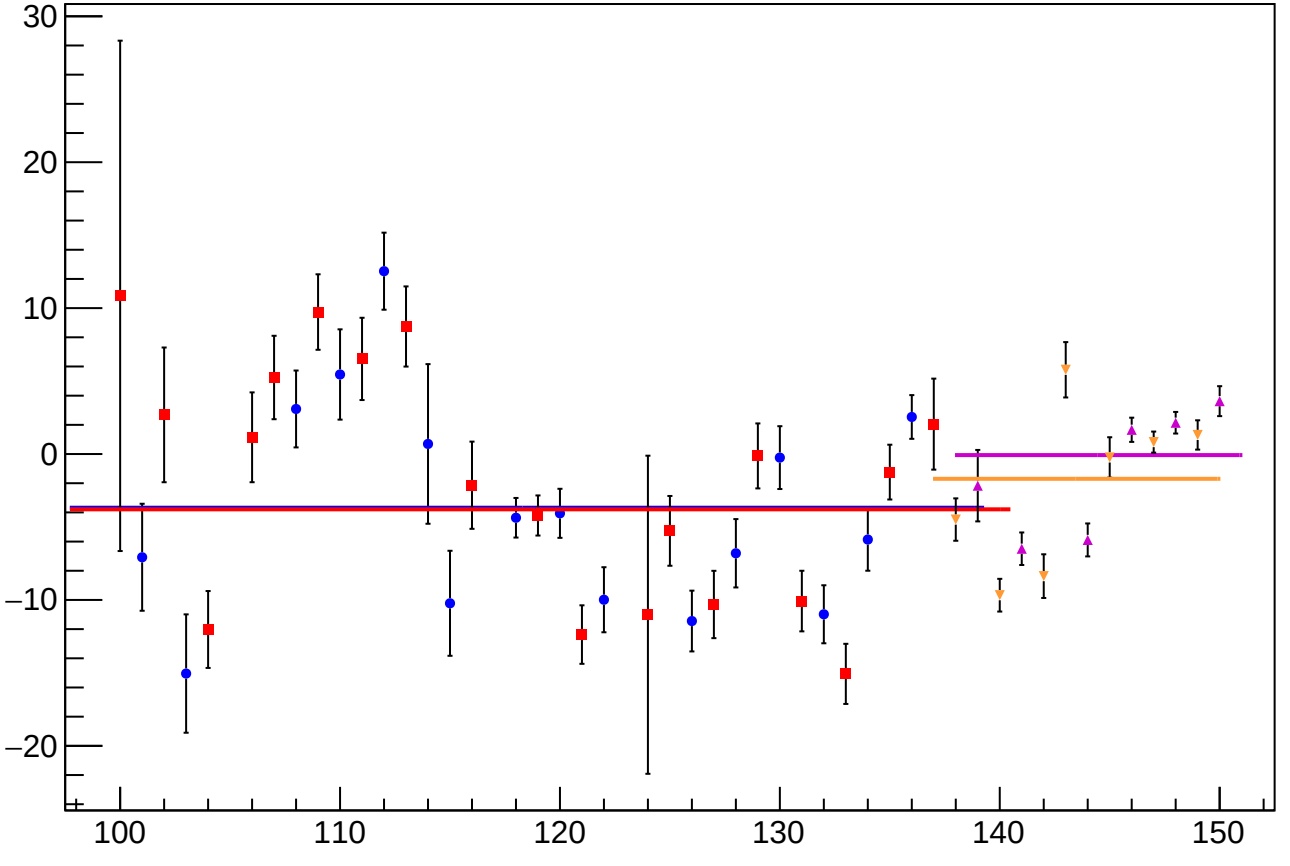
In: 122.986+/-0.051 $\chi^2$/NDF:107077.6/21

Out: 106.886+/-0.046 $\chi^2$/NDF:365822.3/25

All: 114.228+/-0.034 $\chi^2$/NDF: 527685.4/47


reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
−120
100
110
120
130
140
150
Right In: -15.438+/-0.539 χ²/NDF: 2124.2/15
Left Out: 22.125+/-0.618 χ²/NDF:2034.9/6
Right Out: -17.848+/-0.530 χ²/NDF: 2125.2/18
Left In: 25.311+/-0.608 χ²/NDF:18.7/5
Left: 23.744+/-0.434 χ²/NDF: 2067.1/12
Right: -16.664+/-0.378 χ²/NDF: 4259.6/34
In: 2.493+/-0.403 χ²/NDF:4657.5/21
Out: -0.927+/-0.402 χ²/NDF:6571.4/25
All: 0.778+/-0.285 χ²/NDF: 11264.9/47

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -1.697+/-0.429 $\chi^2$/NDF:111.9/6

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -0.072+/-0.409 $\chi^2$/NDF:86.7/5

Left: -0.845+/-0.296 $\chi^2$/NDF: 206.1/12

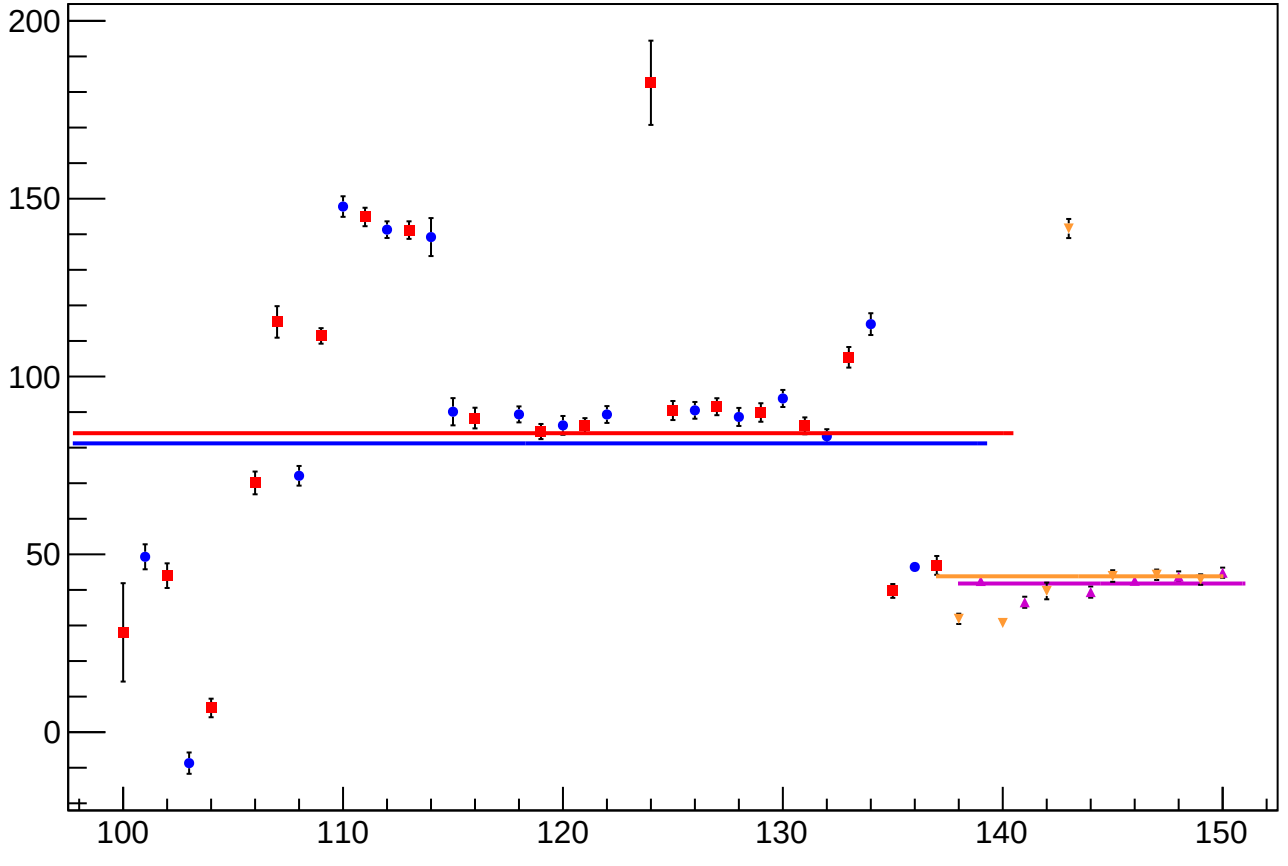
Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -1.350+/-0.329 $\chi^2$/NDF:238.2/21

Out: -2.465+/-0.342 $\chi^2$/NDF:281.9/25

All: -1.886+/-0.237 $\chi^2$/NDF: 525.6/47

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 81.203+/-0.607 $\chi^2$/NDF: 3230.5/15

Left Out: 43.824+/-0.617 $\chi^2$/NDF:1487.3/6

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 41.798+/-0.600 $\chi^2$/NDF:20.7/5

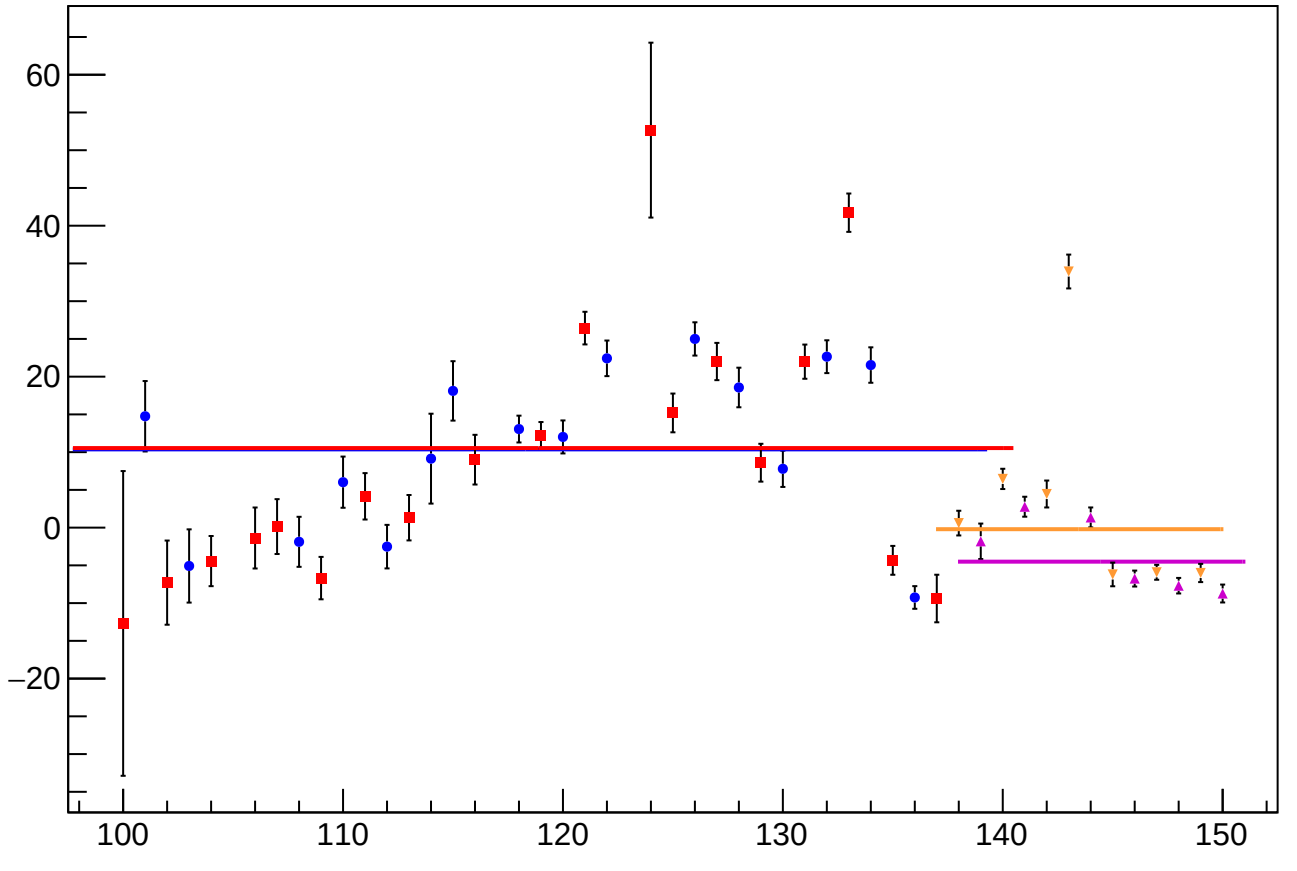
Left: 42.784+/-0.430 $\chi^2$/NDF: 1513.5/12

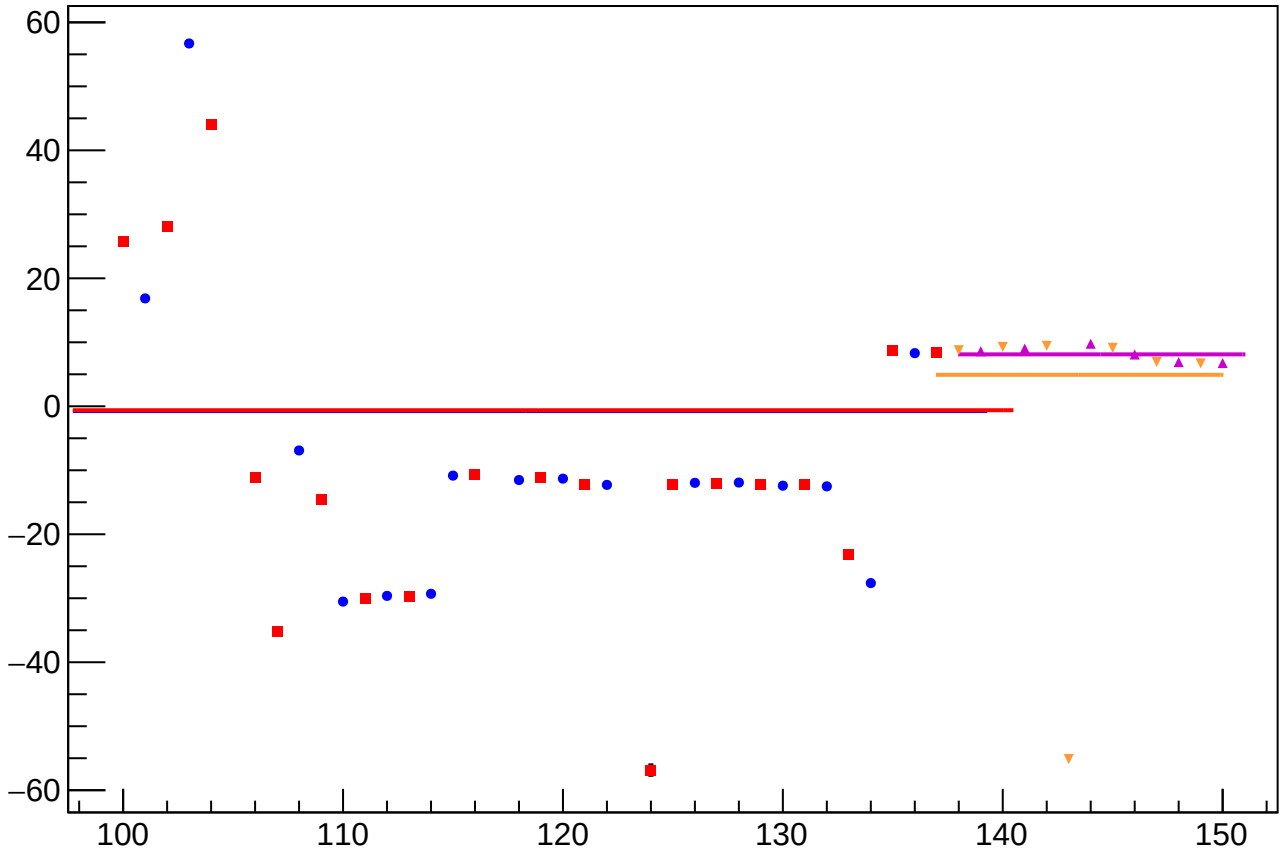
Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 61.276+/-0.427 $\chi^2$/NDF:5382.0/21

Out: 63.956+/-0.436 $\chi^2$/NDF:6824.4/25

All: 62.588+/-0.305 $\chi^2$/NDF: 12225.7/47


reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
60
40
20
0
−20
100
110
120
130
140
150
Right In: 10.367+/-0.627 χ²/NDF: 359.8/15
Left Out: -0.207+/-0.530 χ²/NDF:334.8/6
Right Out: 10.539+/-0.640 χ²/NDF: 470.7/18
Left In: -4.509+/-0.508 χ²/NDF:78.0/5
Left: -2.450+/-0.367 χ²/NDF: 447.1/12
Right: 10.451+/-0.448 χ²/NDF: 830.5/34
In: 1.392+/-0.395 χ²/NDF:777.9/21
Out: 4.163+/-0.408 χ²/NDF:972.7/25
All: 2.730+/-0.284 χ²/NDF: 1774.4/47




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 4.919+/-0.026 $\chi^2$/NDF:306746.6/6

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 8.114+/-0.024 $\chi^2$/NDF:1819.2/5

Left: 6.612+/-0.018 $\chi^2$/NDF: 316716.1/12

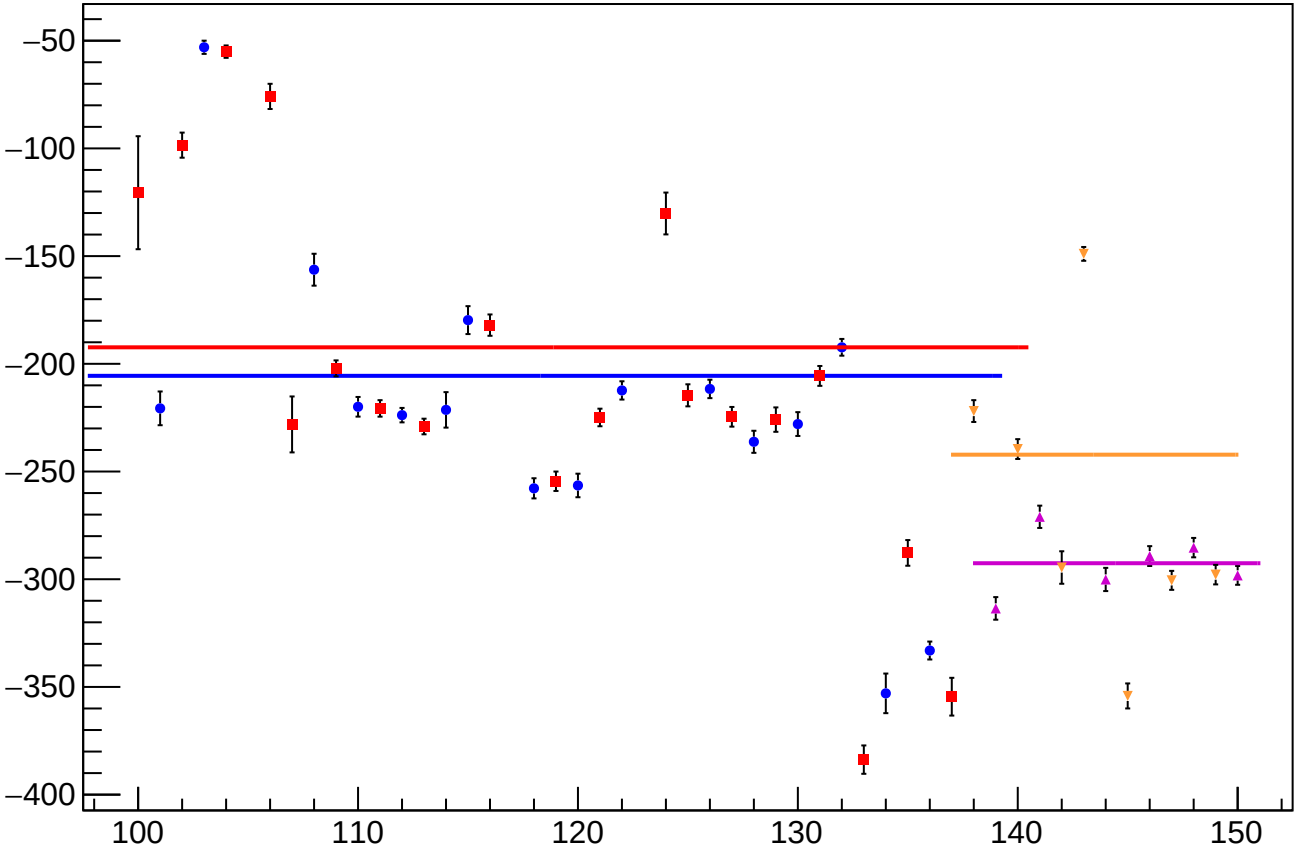
Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 5.334+/-0.020 $\chi^2$/NDF:411648.8/21

Out: 3.133+/-0.021 $\chi^2$/NDF:638142.1/25

All: 4.292+/-0.015 $\chi^2$/NDF: 1055467.6/47

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -205.577+/-1.185 $\chi^2$/NDF: 4056.0/15

Left Out: -242.179+/-1.738 $\chi^2$/NDF:1607.6/6

Right Out: -192.345+/-1.123 $\chi^2$/NDF: 4969.8/18

Left In: -292.571+/-1.973 $\chi^2$/NDF:40.1/5

Left: -264.207+/-1.304 $\chi^2$/NDF: 2014.9/12

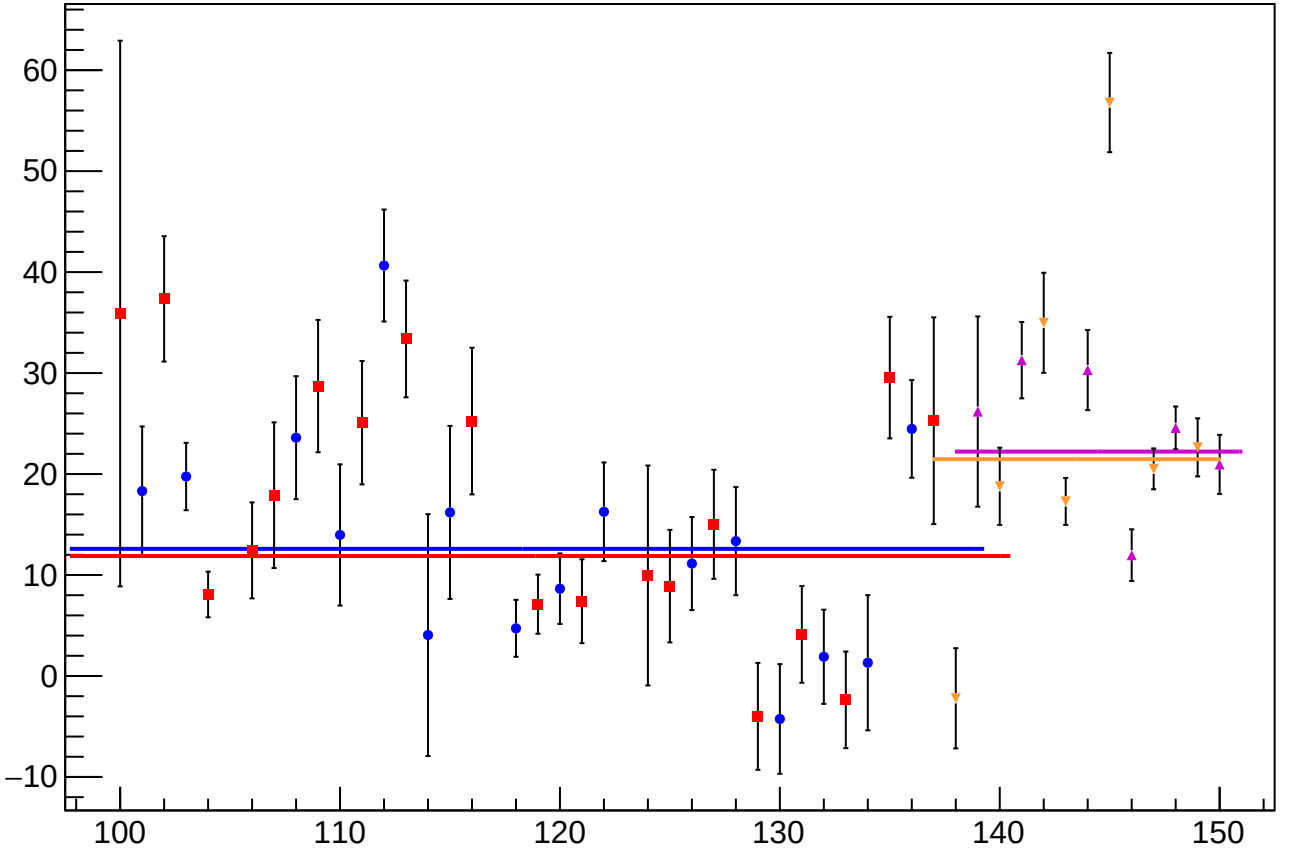
Right: -198.605+/-0.815 $\chi^2$/NDF: 9091.6/34

In: -228.637+/-1.016 $\chi^2$/NDF:5525.3/21

Out: -207.008+/-0.943 $\chi^2$/NDF:7157.4/25

All: -217.021+/-0.691 $\chi^2$/NDF: 12926.2/47

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 12.592+/-1.203 $\chi^2$/NDF: 68.5/15

Left Out: 21.471+/-1.161 $\chi^2$/NDF:85.9/6

Right Out: 11.880+/-1.122 $\chi^2$/NDF: 84.9/18

Left In: 22.223+/-1.253 $\chi^2$/NDF:27.5/5

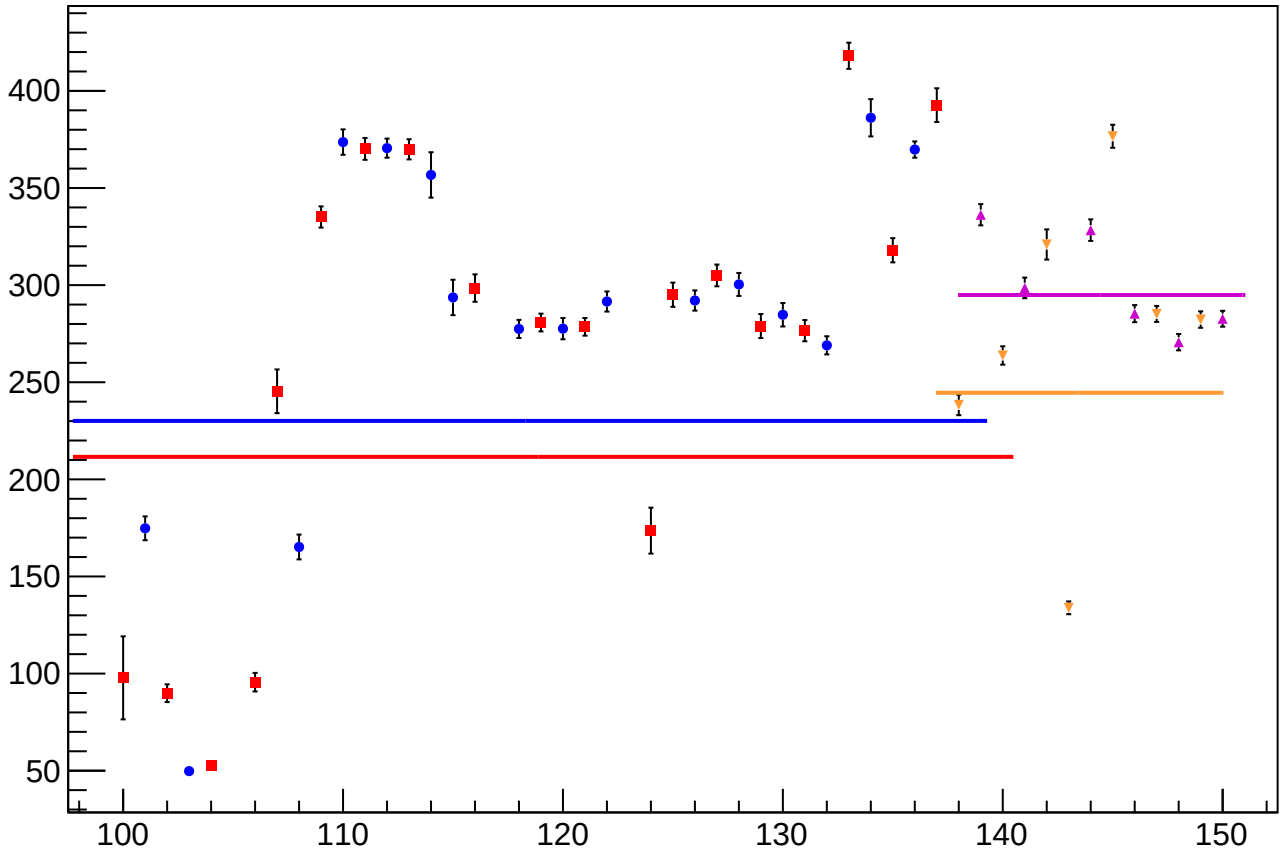
Left: 21.818+/-0.852 $\chi^2$/NDF: 113.6/12

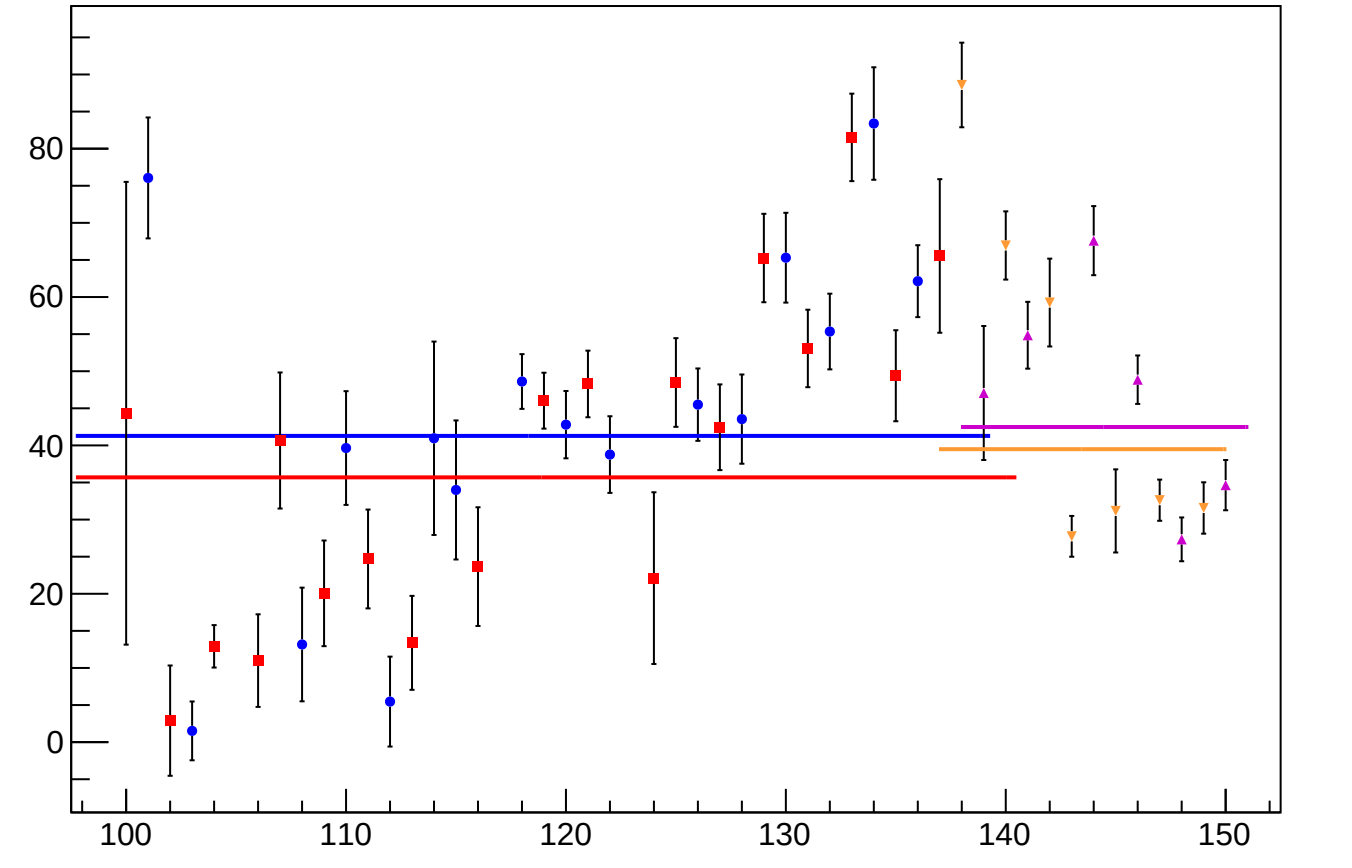
Right: 12.211+/-0.820 $\chi^2$/NDF: 153.6/34

In: 17.209+/-0.868 $\chi^2$/NDF:126.8/21

Out: 16.508+/-0.807 $\chi^2$/NDF:206.1/25

All: 16.833+/-0.591 $\chi^2$/NDF: 333.2/47


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
400
350
300
250
200
150
100
50
100
110
120
130
140
150
Right In: 230.095+/-1.260 χ²/NDF: 9375.6/15
Left Out: 244.578+/-1.734 χ²/NDF:1915.0/6
Right Out: 211.588+/-1.195 χ²/NDF: 11472.1/18
Left In: 294.923+/-1.927 χ²/NDF:140.8/5
Left: 267.107+/-1.289 χ²/NDF: 2433.0/12
Right: 220.357+/-0.867 χ²/NDF: 20961.4/34
In: 249.503+/-1.054 χ²/NDF:10309.5/21
Out: 222.213+/-0.984 χ²/NDF:13632.5/25
All: 234.920+/-0.719 χ²/NDF: 24300.0/47




Right In: 41.282+/-1.398 $\chi^2$/NDF: 245.8/15

Left Out: 39.492+/-1.438 $\chi^2$/NDF:152.8/6

Right Out: 35.692+/-1.317 $\chi^2$/NDF: 253.2/18

Left In: 42.480+/-1.574 $\chi^2$/NDF:72.4/5

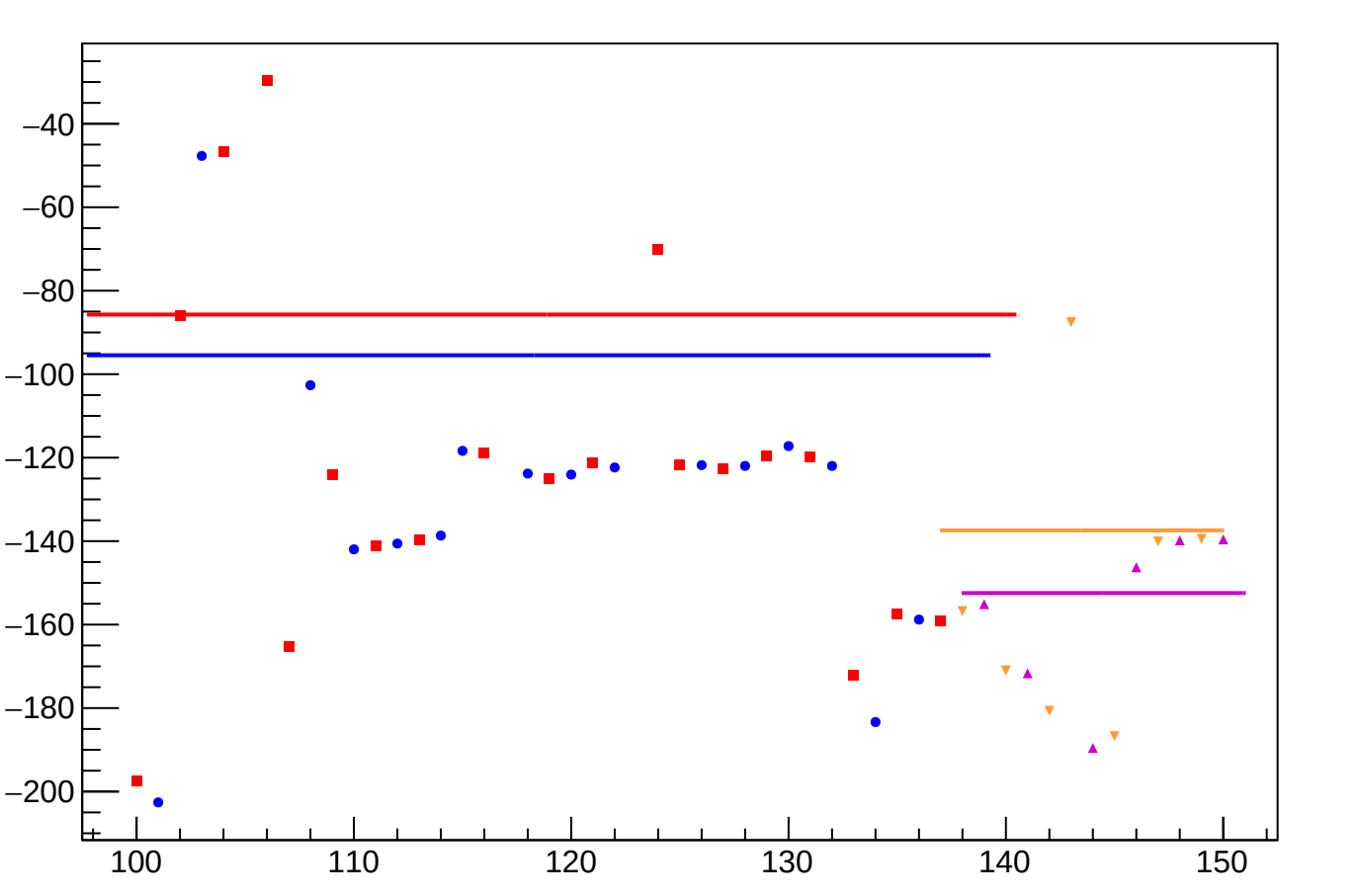
Left: 40.851+/-1.062 $\chi^2$/NDF: 227.1/12

Right: 38.321+/-0.958 $\chi^2$/NDF: 507.4/34

In: 41.810+/-1.045 $\chi^2$/NDF:318.5/21

Out: 37.426+/-0.971 $\chi^2$/NDF:409.8/25

All: 39.457+/-0.711 $\chi^2$/NDF: 737.7/47




Right In: -95.468+/-0.069 $\chi^2$/NDF: 519953.8/15

Left Out: -137.421+/-0.073 $\chi^2$/NDF:228204.5/6

Right Out: -85.716+/-0.067 $\chi^2$/NDF: 482604.9/18

Left In: -152.443+/-0.079 $\chi^2$/NDF:42783.8/5

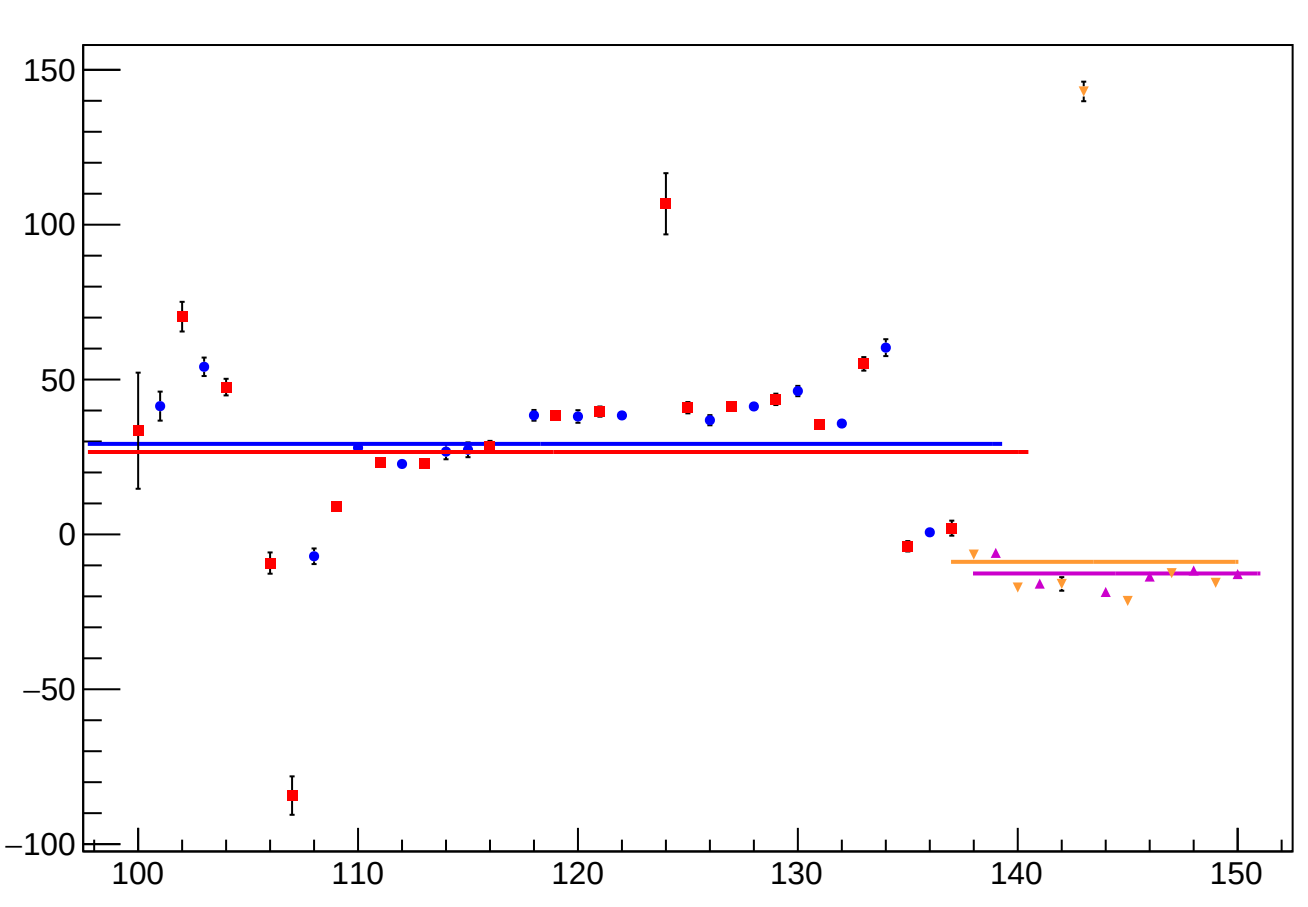
Left: -144.400+/-0.054 $\chi^2$/NDF: 290590.9/12

Right: -90.413+/-0.048 $\chi^2$/NDF: 1012777.7/34

In: -120.483+/-0.052 $\chi^2$/NDF:858200.9/21

Out: -109.293+/-0.049 $\chi^2$/NDF:982785.4/25

All: -114.597+/-0.036 $\chi^2$/NDF: 1865324.4/47




Right In: 29.229+/-0.424 $\chi^2$/NDF: 1342.9/15

Left Out: -8.853+/-0.586 $\chi^2$/NDF:2466.9/6

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -12.612+/-0.566 $\chi^2$/NDF:51.8/5

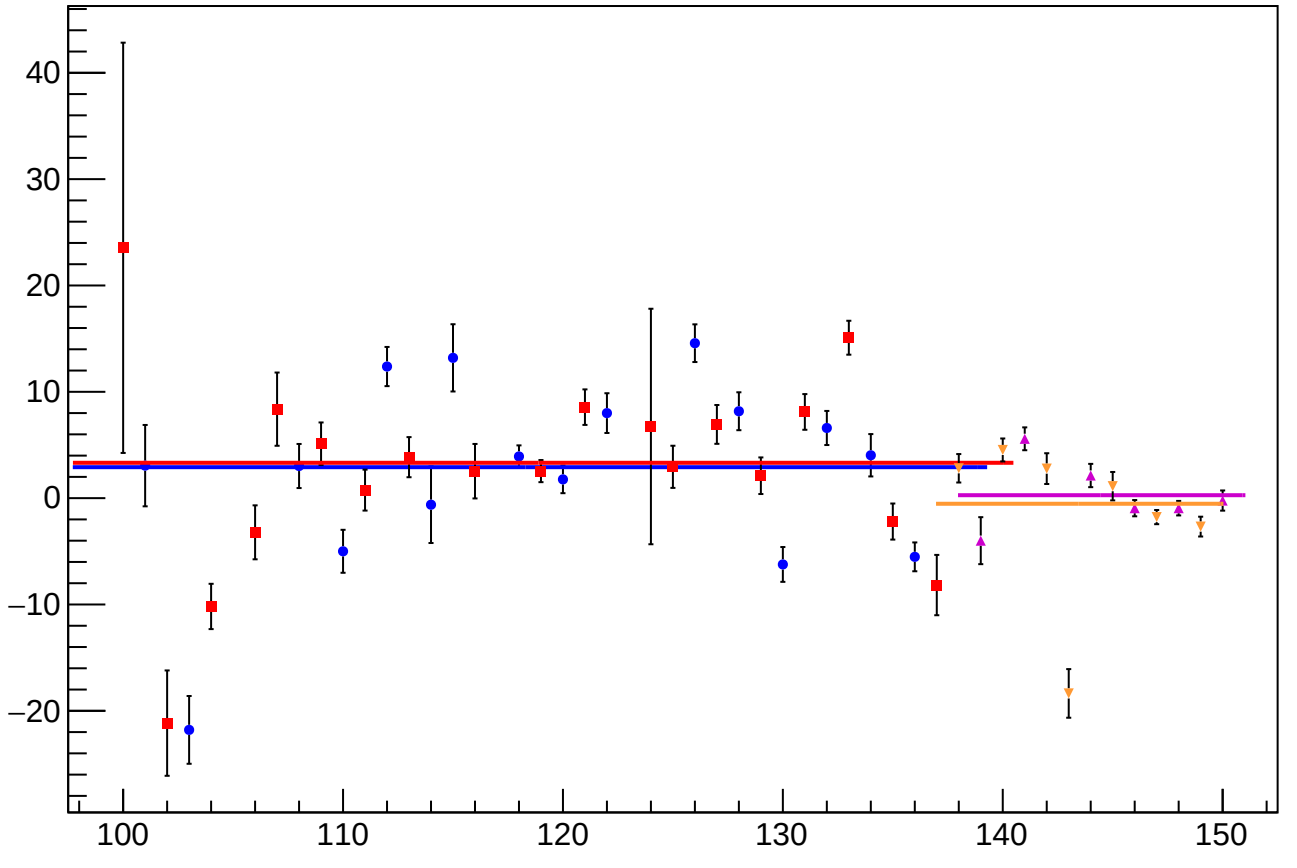
Left: -10.797+/-0.407 $\chi^2$/NDF: 2539.9/12

Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 14.186+/-0.340 $\chi^2$/NDF:4891.3/21

Out: 14.796+/-0.338 $\chi^2$/NDF:6830.6/25

All: 14.492+/-0.240 $\chi^2$/NDF: 11723.6/47




Right In: 2.912+/-0.442 $\chi^2$/NDF: 250.0/15

Left Out: -0.528+/-0.407 $\chi^2$/NDF:104.6/6

Right Out: 3.326+/-0.454 $\chi^2$/NDF: 181.8/18

Left In: 0.277+/-0.381 $\chi^2$/NDF:37.0/5

Left: -0.099+/-0.278 $\chi^2$/NDF: 143.7/12

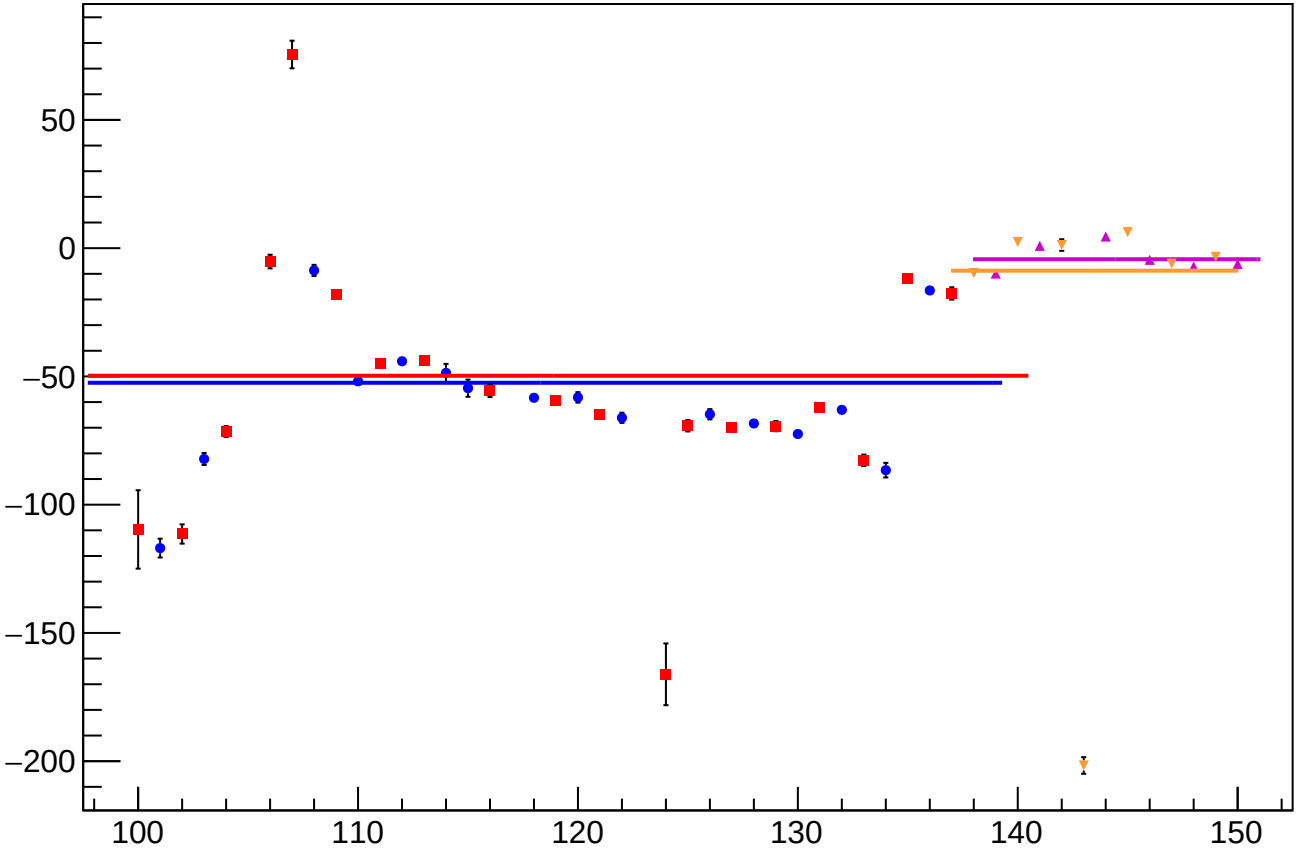
Right: 3.114+/-0.317 $\chi^2$/NDF: 432.2/34

In: 1.401+/-0.289 $\chi^2$/NDF:307.3/21

Out: 1.190+/-0.303 $\chi^2$/NDF:326.4/25

All: 1.300+/-0.209 $\chi^2$/NDF: 634.0/47

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -52.467+/-0.488 $\chi^2$/NDF: 2330.2/15

Left Out: -8.773+/-0.584 $\chi^2$/NDF:3736.6/6

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -4.315+/-0.559 $\chi^2$/NDF:71.4/5

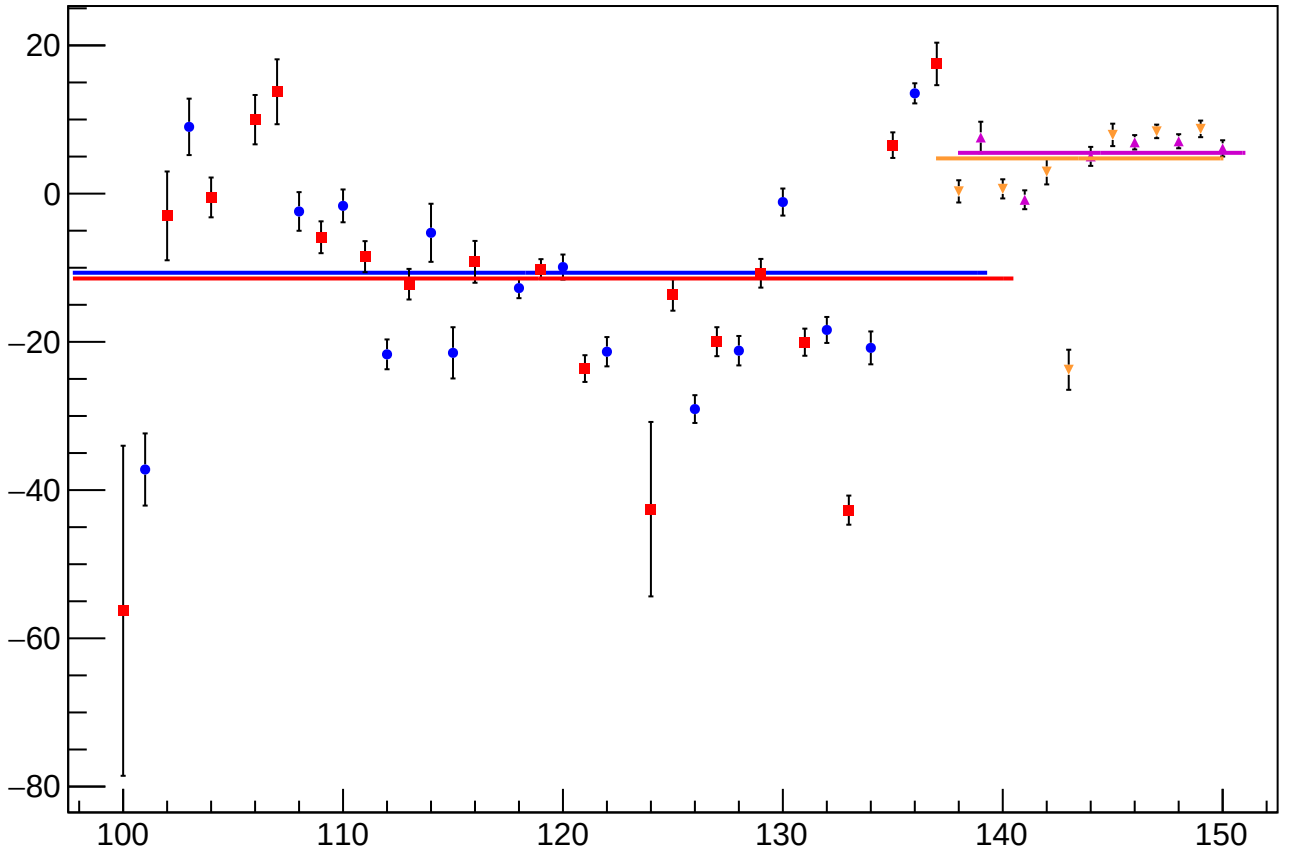
Left: -6.446+/-0.404 $\chi^2$/NDF: 3838.4/12

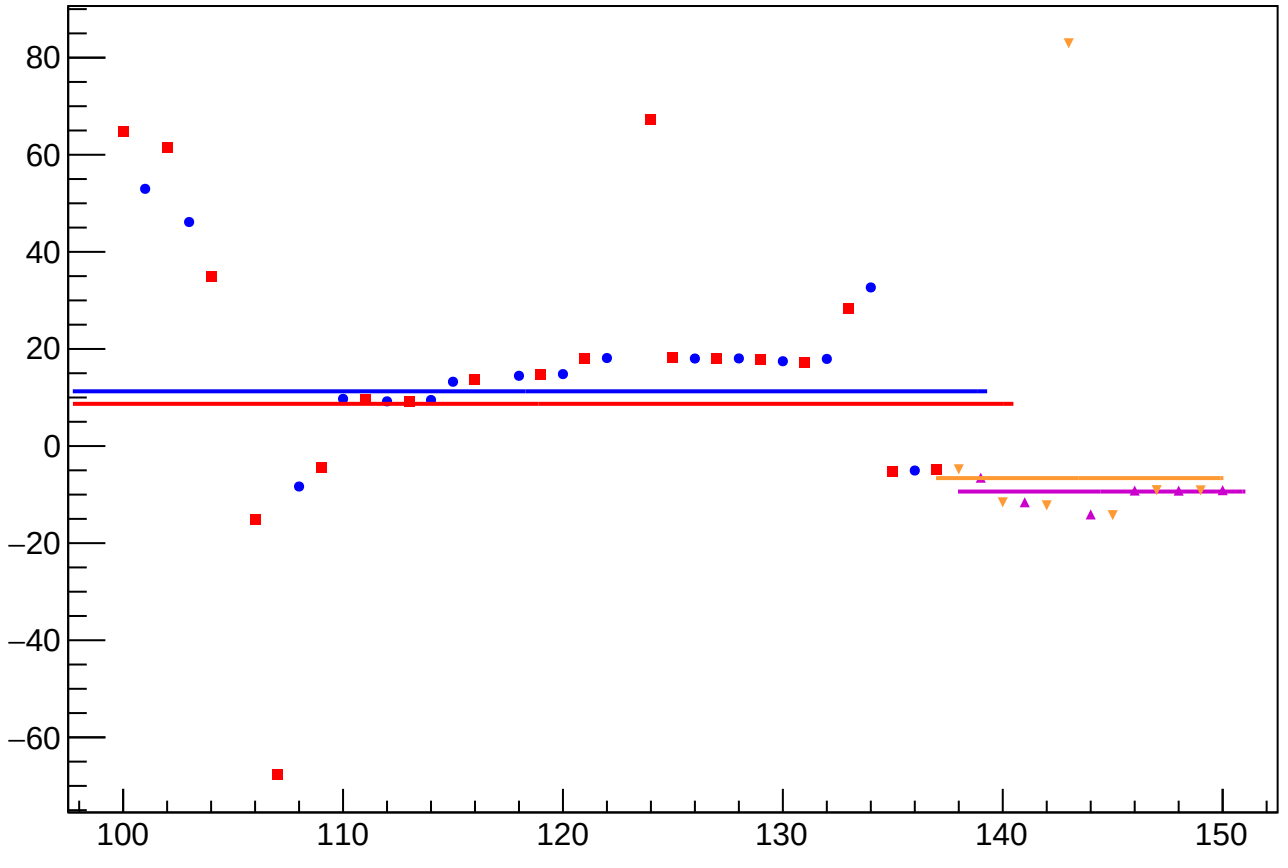
Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -31.632+/-0.367 $\chi^2$/NDF:6618.1/21

Out: -32.634+/-0.377 $\chi^2$/NDF:9616.0/25

All: -32.120+/-0.263 $\chi^2$/NDF: 16237.7/47


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
20
0
−20
−40
−60
−80
100
110
120
130
140
150
Right In: -10.675+/-0.505 χ²/NDF: 666.4/15
Left Out: 4.753+/-0.503 χ²/NDF:164.1/6
Right Out: -11.450+/-0.516 χ²/NDF: 665.7/18
Left In: 5.504+/-0.474 χ²/NDF:31.0/5
Left: 5.151+/-0.345 χ²/NDF: 196.3/12
Right: -11.054+/-0.361 χ²/NDF: 1333.3/34
In: -2.070+/-0.346 χ²/NDF:1242.3/21
Out: -3.141+/-0.360 χ²/NDF:1335.4/25
All: -2.584+/-0.249 χ²/NDF: 2582.3/47




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -6.599+/-0.024 $\chi^2$/NDF:470323.3/6

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -9.371+/-0.023 $\chi^2$/NDF:10067.8/5

Left: -8.093+/-0.017 $\chi^2$/NDF: 487379.7/12

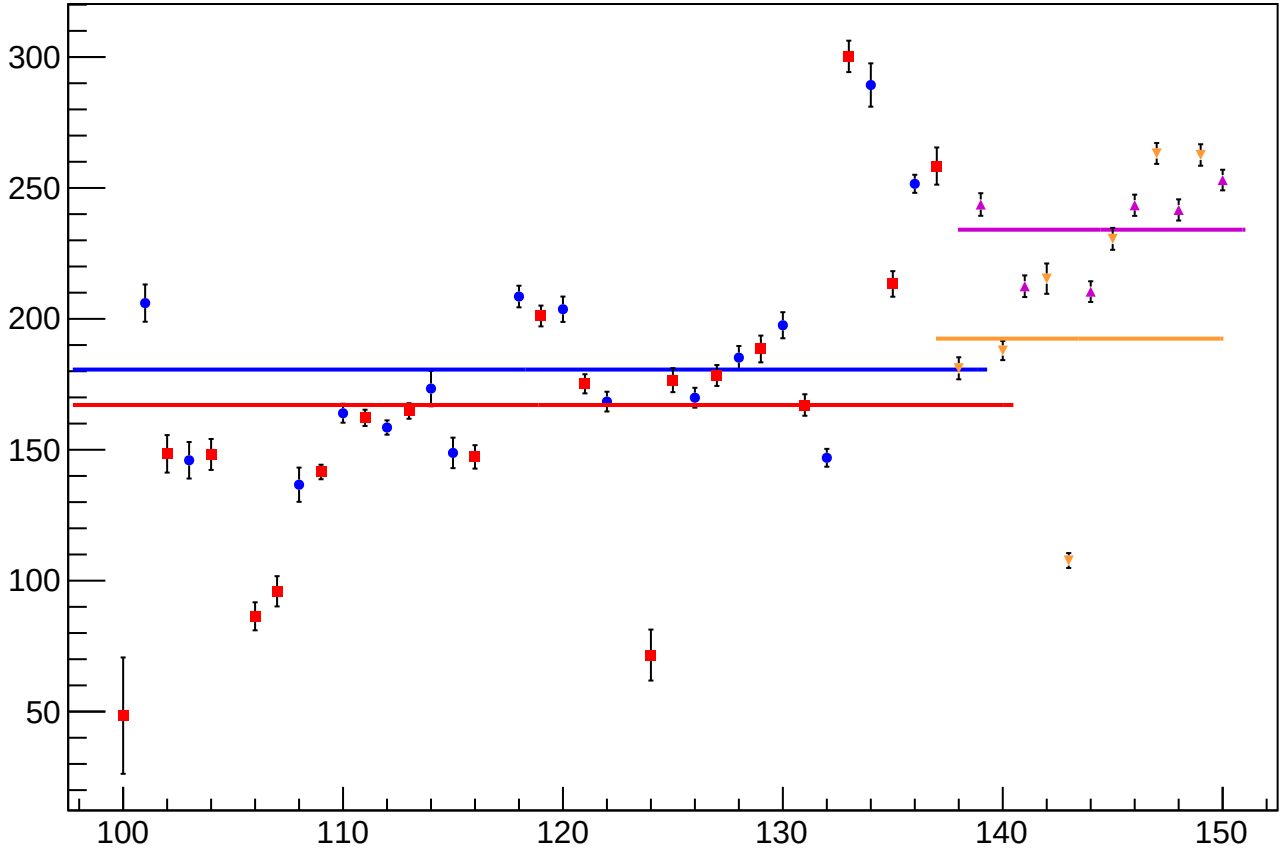
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: -1.907+/-0.018 $\chi^2$/NDF:663455.8/21

Out: -0.861+/-0.019 $\chi^2$/NDF:1054576.9/25

All: -1.419+/-0.013 $\chi^2$/NDF: 1719610.7/47

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 192.452+/-1.468 $\chi^2$/NDF:1603.5/6

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 234.057+/-1.661 $\chi^2$/NDF:99.9/5

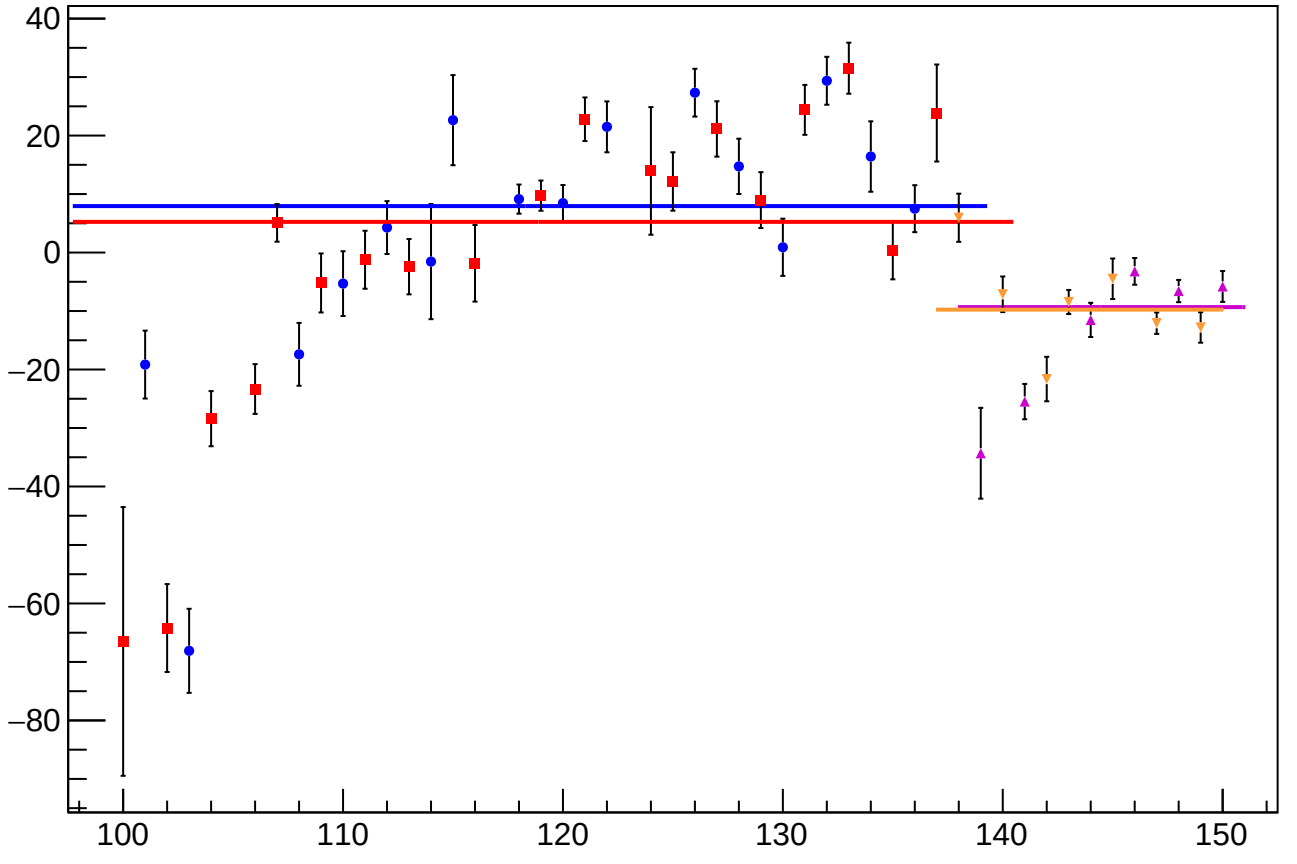
Left: 210.698+/-1.100 $\chi^2$/NDF: 2055.7/12

Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.709+/-0.911 $\chi^2$/NDF:1816.6/21

Out: 175.365+/-0.838 $\chi^2$/NDF:3289.1/25

All: 185.148+/-0.617 $\chi^2$/NDF: 5403.0/47




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: -9.763+/-1.000 $\chi^2$/NDF:30.8/6

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -9.330+/-1.081 $\chi^2$/NDF:50.5/5

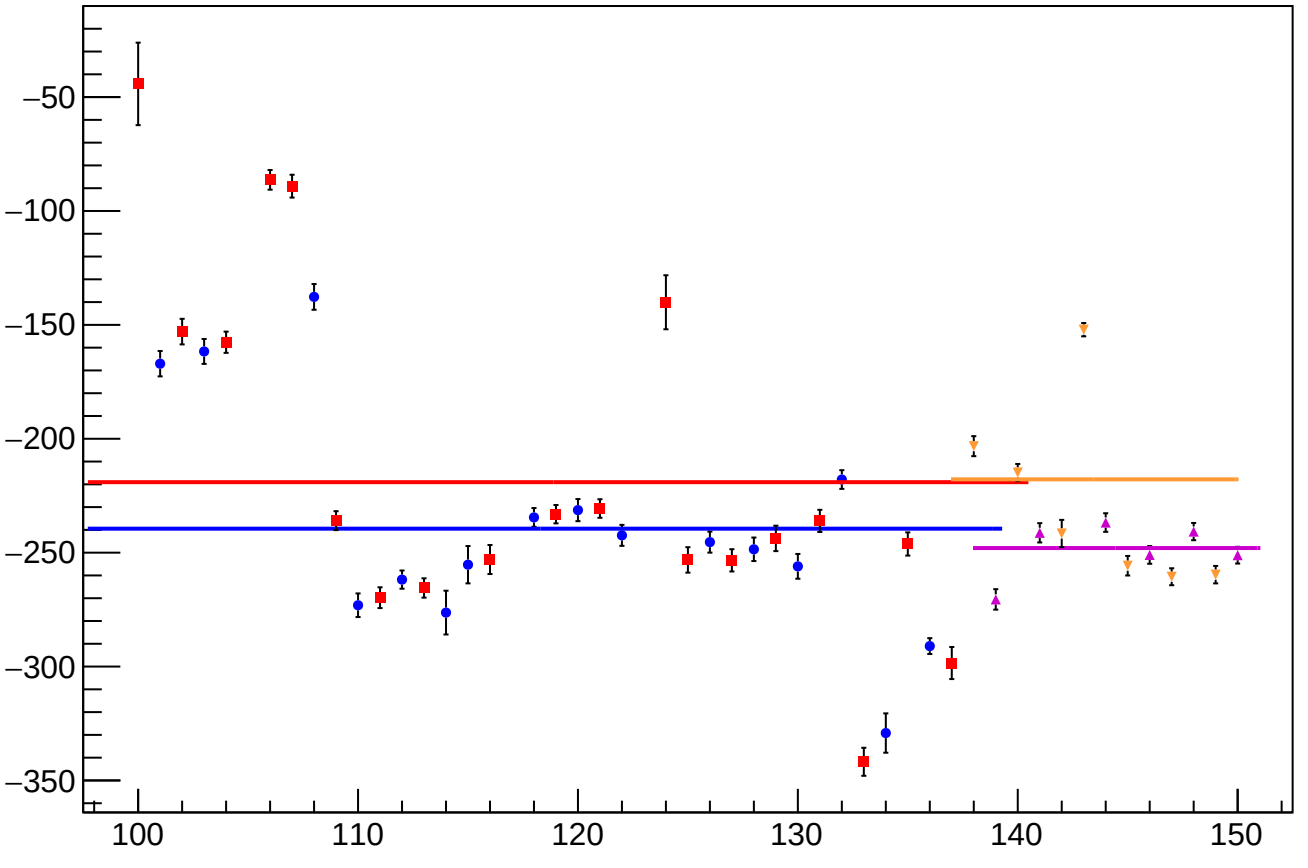
Left: -9.563+/-0.734 $\chi^2$/NDF: 81.4/12

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: -0.944+/-0.776 $\chi^2$/NDF:407.3/21

Out: -2.711+/-0.728 $\chi^2$/NDF:439.5/25

All: -1.883+/-0.531 $\chi^2$/NDF: 849.6/47




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -217.814+/-1.471 $\chi^2$/NDF:862.2/6

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -247.975+/-1.632 $\chi^2$/NDF:40.2/5

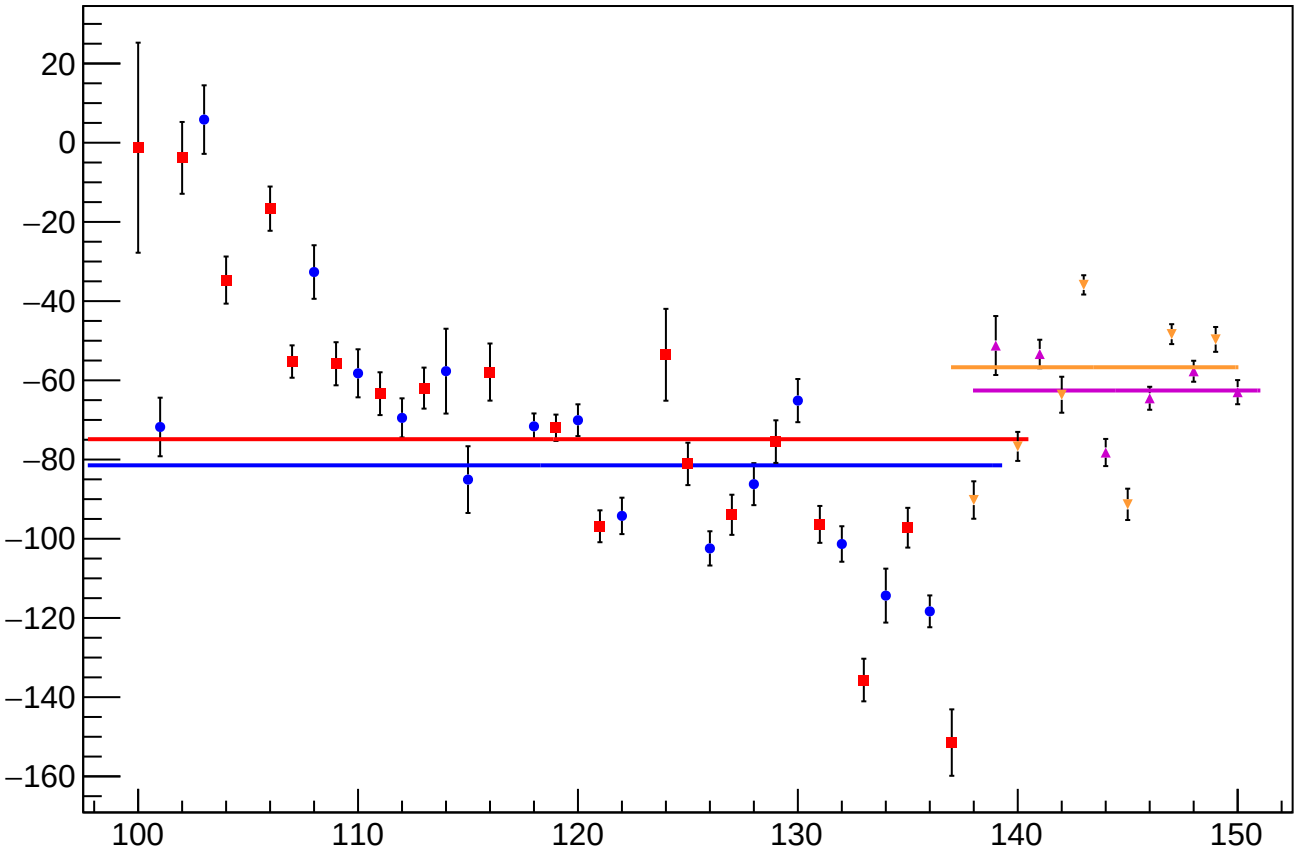
Left: -231.333+/-1.093 $\chi^2$/NDF: 1090.8/12

Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -242.598+/-0.990 $\chi^2$/NDF:1219.6/21

Out: -218.570+/-0.919 $\chi^2$/NDF:3911.9/25

All: -229.687+/-0.673 $\chi^2$/NDF: 5448.0/47




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -56.696+/-1.231 $\chi^2$/NDF:248.0/6

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -62.568+/-1.349 $\chi^2$/NDF:33.6/5

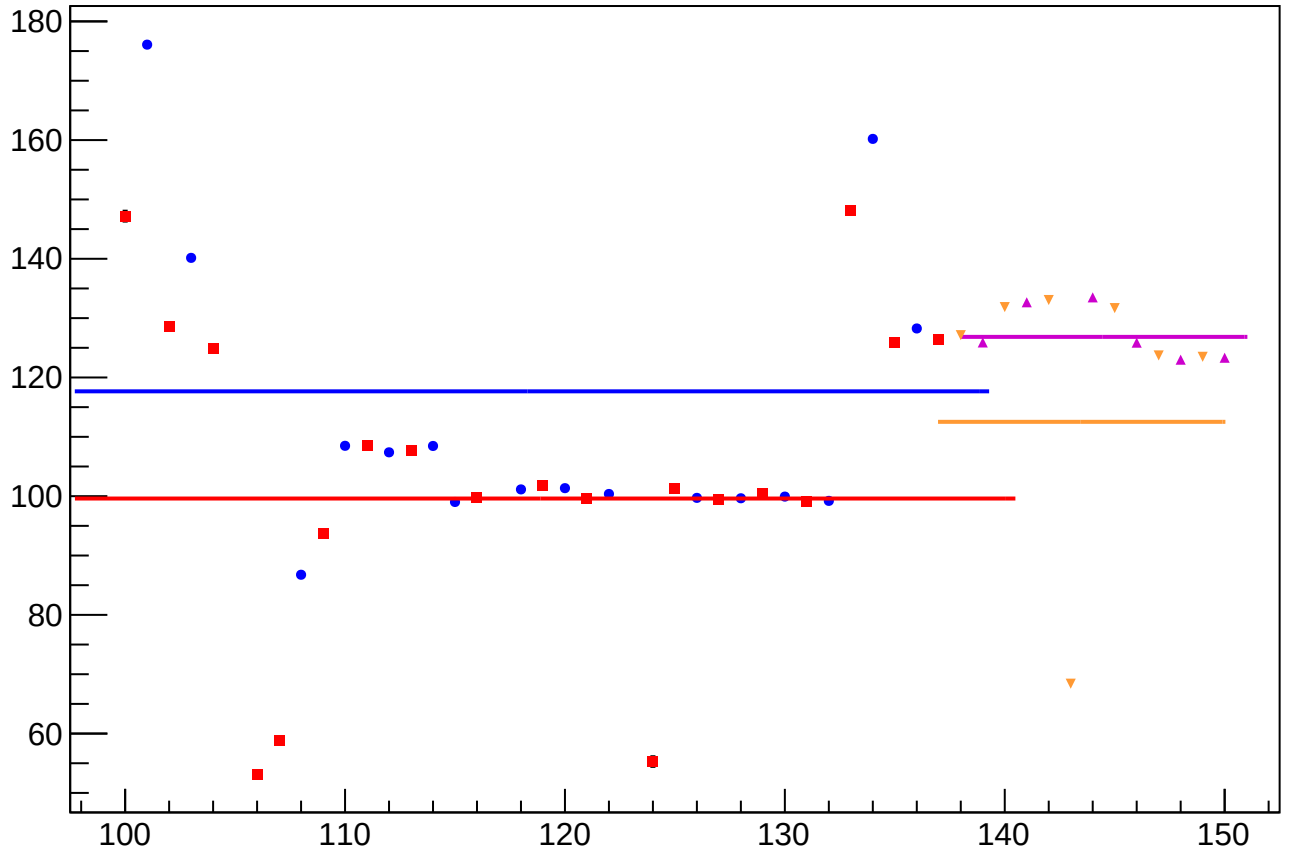
Left: -59.363+/-0.909 $\chi^2$/NDF: 291.9/12

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -72.463+/-0.931 $\chi^2$/NDF:502.8/21

Out: -65.785+/-0.870 $\chi^2$/NDF:933.5/25

All: -68.898+/-0.636 $\chi^2$/NDF: 1463.7/47




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 112.528+/-0.062 $\chi^2$/NDF:180547.0/6

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 126.842+/-0.067 $\chi^2$/NDF:3708.8/5

Left: 119.157+/-0.045 $\chi^2$/NDF: 209036.3/12

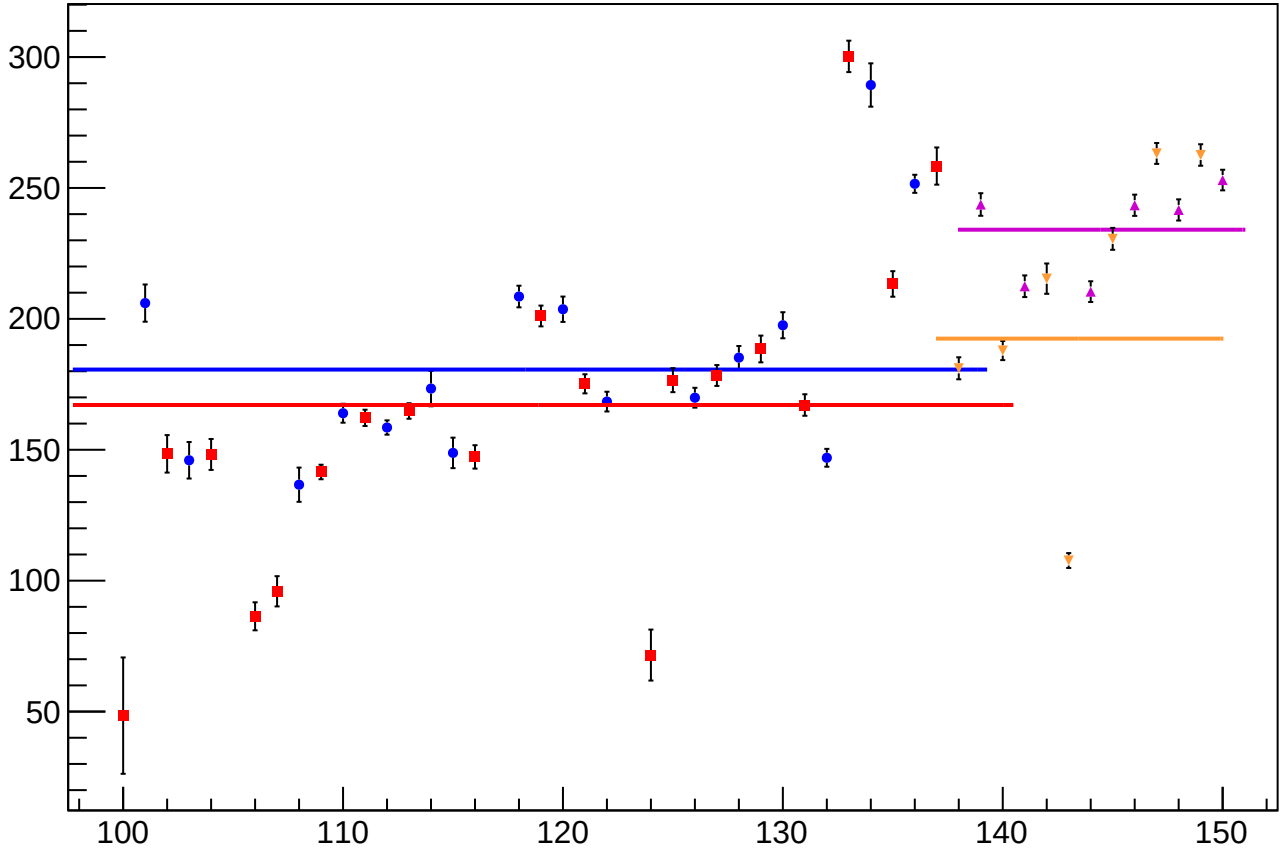
Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 122.986+/-0.051 $\chi^2$/NDF:107077.6/21

Out: 106.886+/-0.046 $\chi^2$/NDF:365822.3/25

All: 114.228+/-0.034 $\chi^2$/NDF: 527685.4/47

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 192.452+/-1.468 $\chi^2$/NDF:1603.5/6

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 234.057+/-1.661 $\chi^2$/NDF:99.9/5

Left: 210.698+/-1.100 $\chi^2$/NDF: 2055.7/12

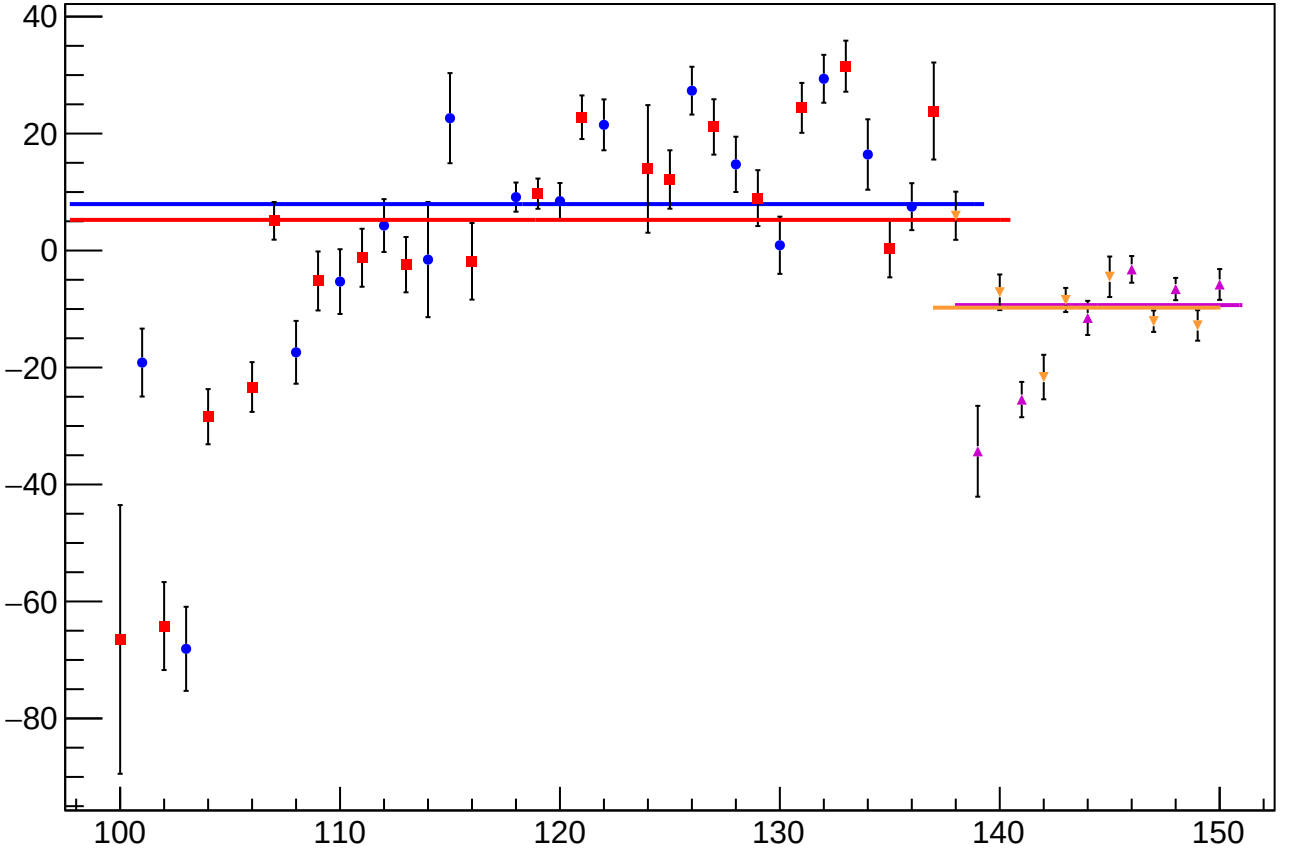
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.709+/-0.911 $\chi^2$/NDF:1816.6/21

Out: 175.365+/-0.838 $\chi^2$/NDF:3289.1/25

All: 185.148+/-0.617 $\chi^2$/NDF: 5403.0/47

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: -9.763+/-1.000 $\chi^2$/NDF:30.8/6

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -9.330+/-1.081 $\chi^2$/NDF:50.5/5

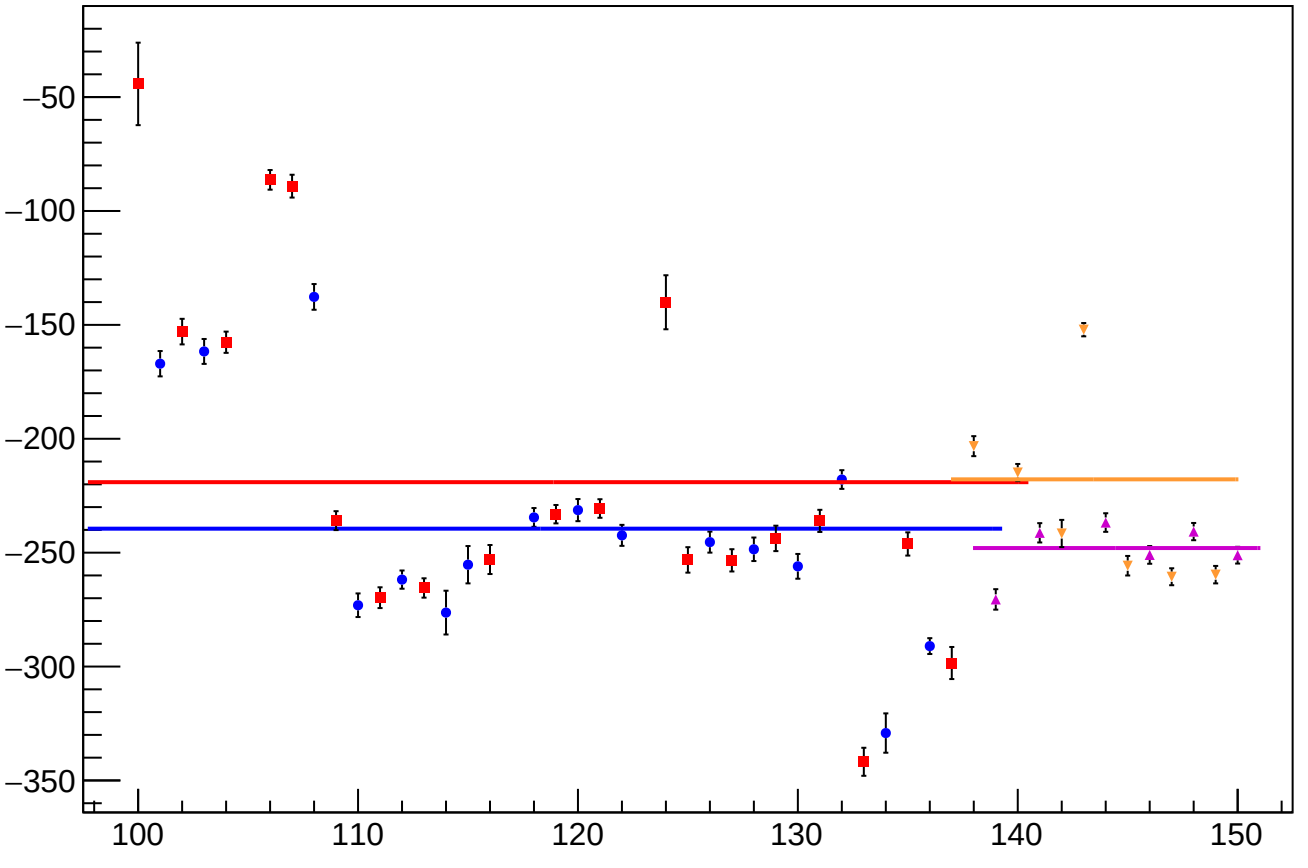
Left: -9.563+/-0.734 $\chi^2$/NDF: 81.4/12

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: -0.944+/-0.776 $\chi^2$/NDF:407.3/21

Out: -2.711+/-0.728 $\chi^2$/NDF:439.5/25

All: -1.883+/-0.531 $\chi^2$/NDF: 849.6/47




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -217.814+/-1.471 $\chi^2$/NDF:862.2/6

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -247.975+/-1.632 $\chi^2$/NDF:40.2/5

Left: -231.333+/-1.093 $\chi^2$/NDF: 1090.8/12

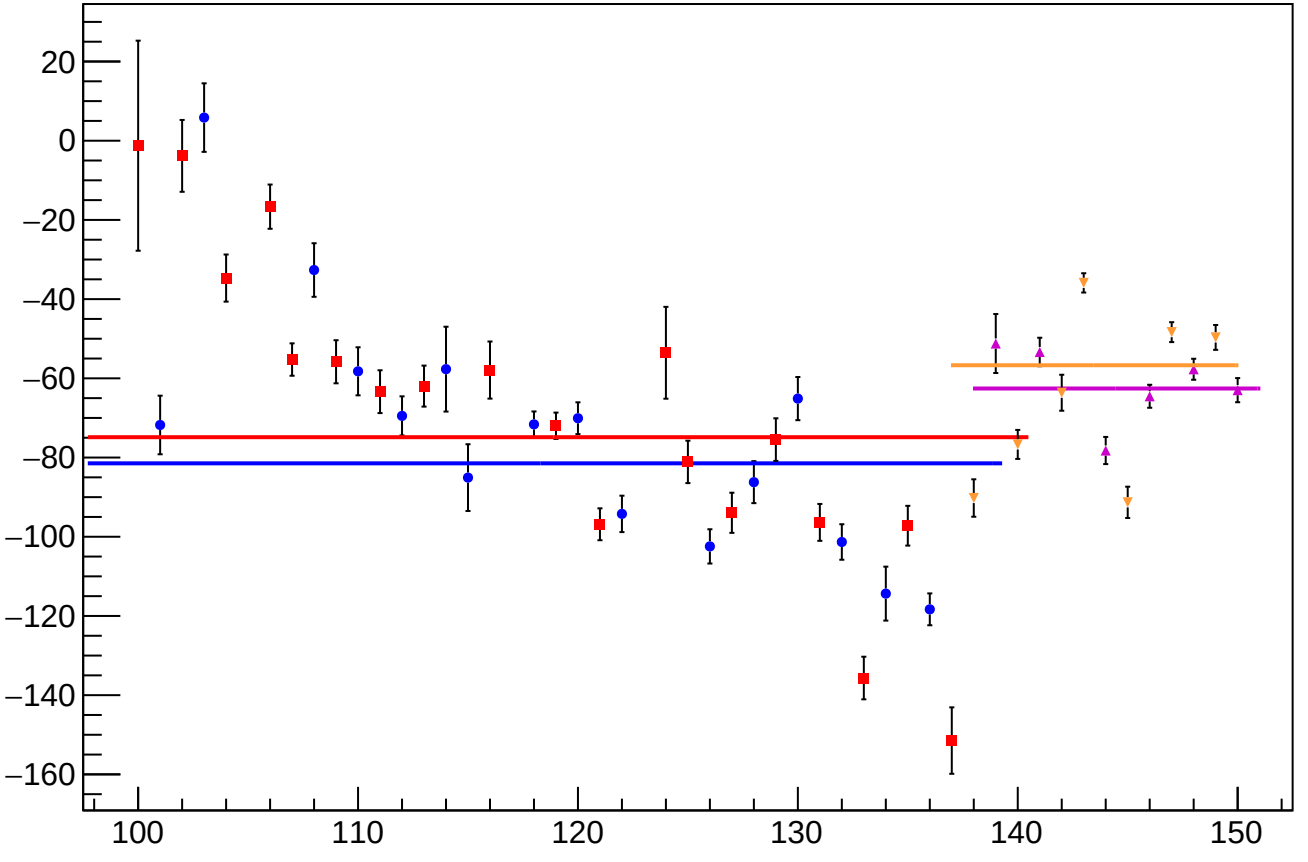
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -242.598+/-0.990 $\chi^2$/NDF:1219.6/21

Out: -218.570+/-0.919 $\chi^2$/NDF:3911.9/25

All: -229.687+/-0.673 $\chi^2$/NDF: 5448.0/47

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -56.696+/-1.231 $\chi^2$/NDF:248.0/6

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -62.568+/-1.349 $\chi^2$/NDF:33.6/5

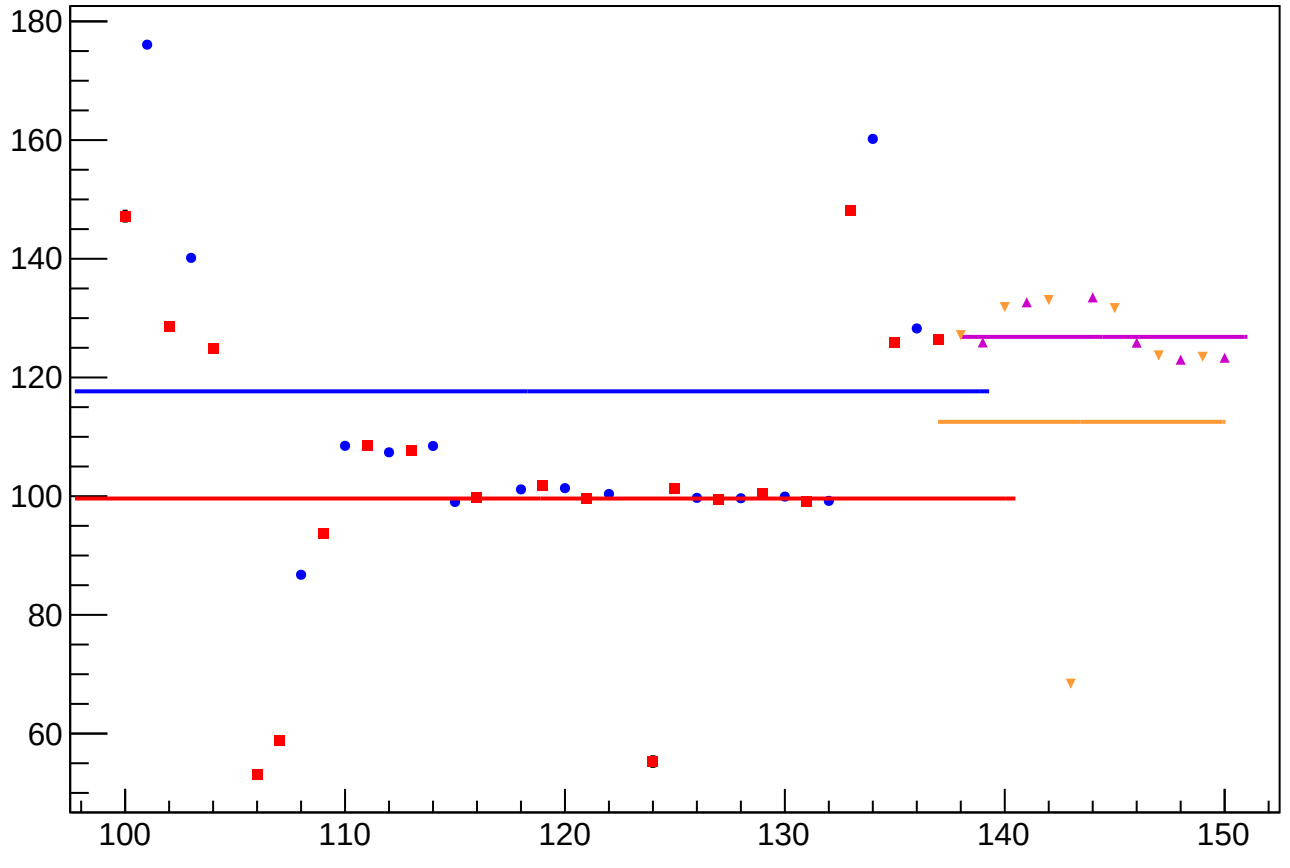
Left: -59.363+/-0.909 $\chi^2$/NDF: 291.9/12

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -72.463+/-0.931 $\chi^2$/NDF:502.8/21

Out: -65.785+/-0.870 $\chi^2$/NDF:933.5/25

All: -68.898+/-0.636 $\chi^2$/NDF: 1463.7/47




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 112.528+/-0.062 $\chi^2$/NDF:180547.0/6

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 126.842+/-0.067 $\chi^2$/NDF:3708.8/5

Left: 119.157+/-0.045 $\chi^2$/NDF: 209036.3/12

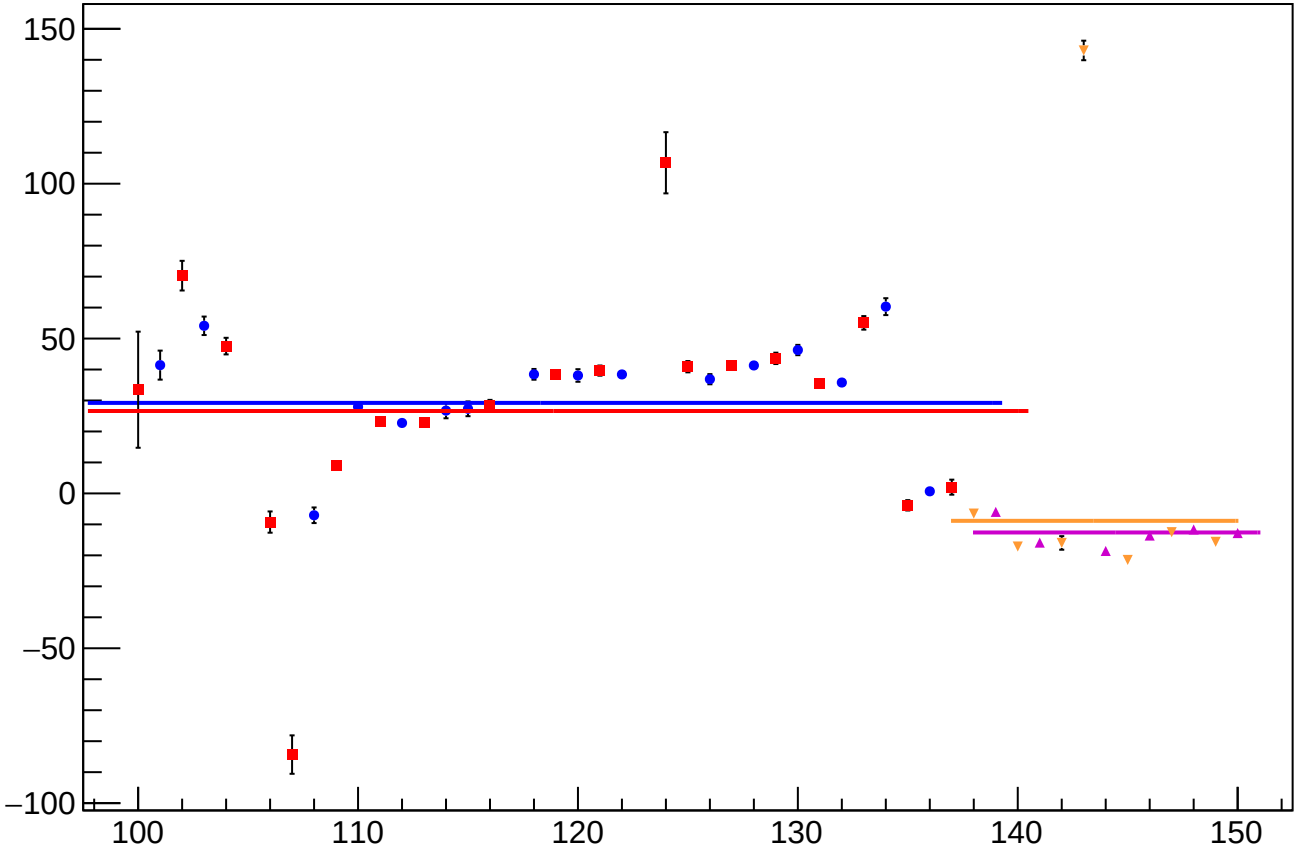
Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 122.986+/-0.051 $\chi^2$/NDF:107077.6/21

Out: 106.886+/-0.046 $\chi^2$/NDF:365822.3/25

All: 114.228+/-0.034 $\chi^2$/NDF: 527685.4/47

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 29.229+/-0.424 $\chi^2$/NDF: 1342.9/15

Left Out: -8.853+/-0.586 $\chi^2$/NDF:2466.9/6

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -12.612+/-0.566 $\chi^2$/NDF:51.8/5

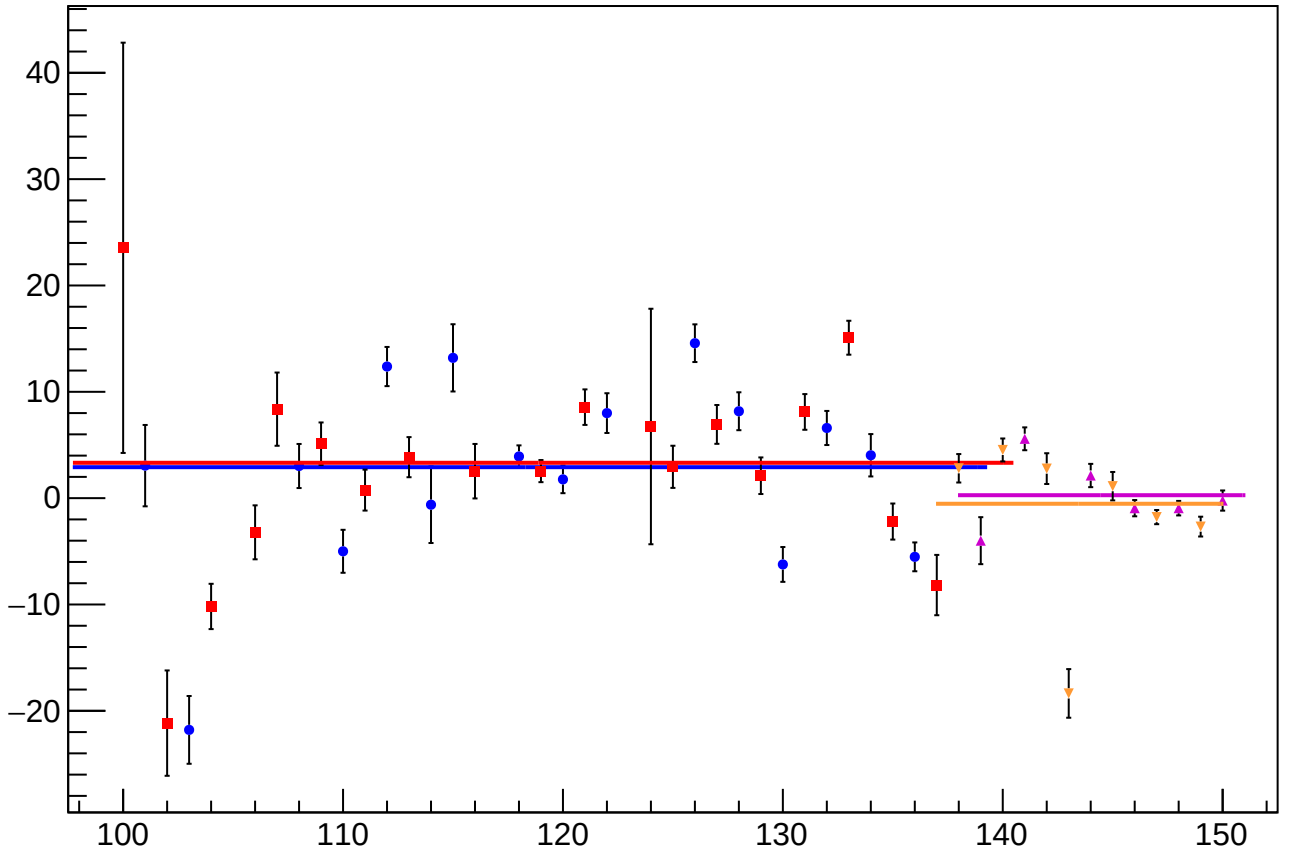
Left: -10.797+/-0.407 $\chi^2$/NDF: 2539.9/12

Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 14.186+/-0.340 $\chi^2$/NDF:4891.3/21

Out: 14.796+/-0.338 $\chi^2$/NDF:6830.6/25

All: 14.492+/-0.240 $\chi^2$/NDF: 11723.6/47




Right In: 2.912+/-0.442 $\chi^2$/NDF: 250.0/15

Left Out: -0.528+/-0.407 $\chi^2$/NDF:104.6/6

Right Out: 3.326+/-0.454 $\chi^2$/NDF: 181.8/18

Left In: 0.277+/-0.381 $\chi^2$/NDF:37.0/5

Left: -0.099+/-0.278 $\chi^2$/NDF: 143.7/12

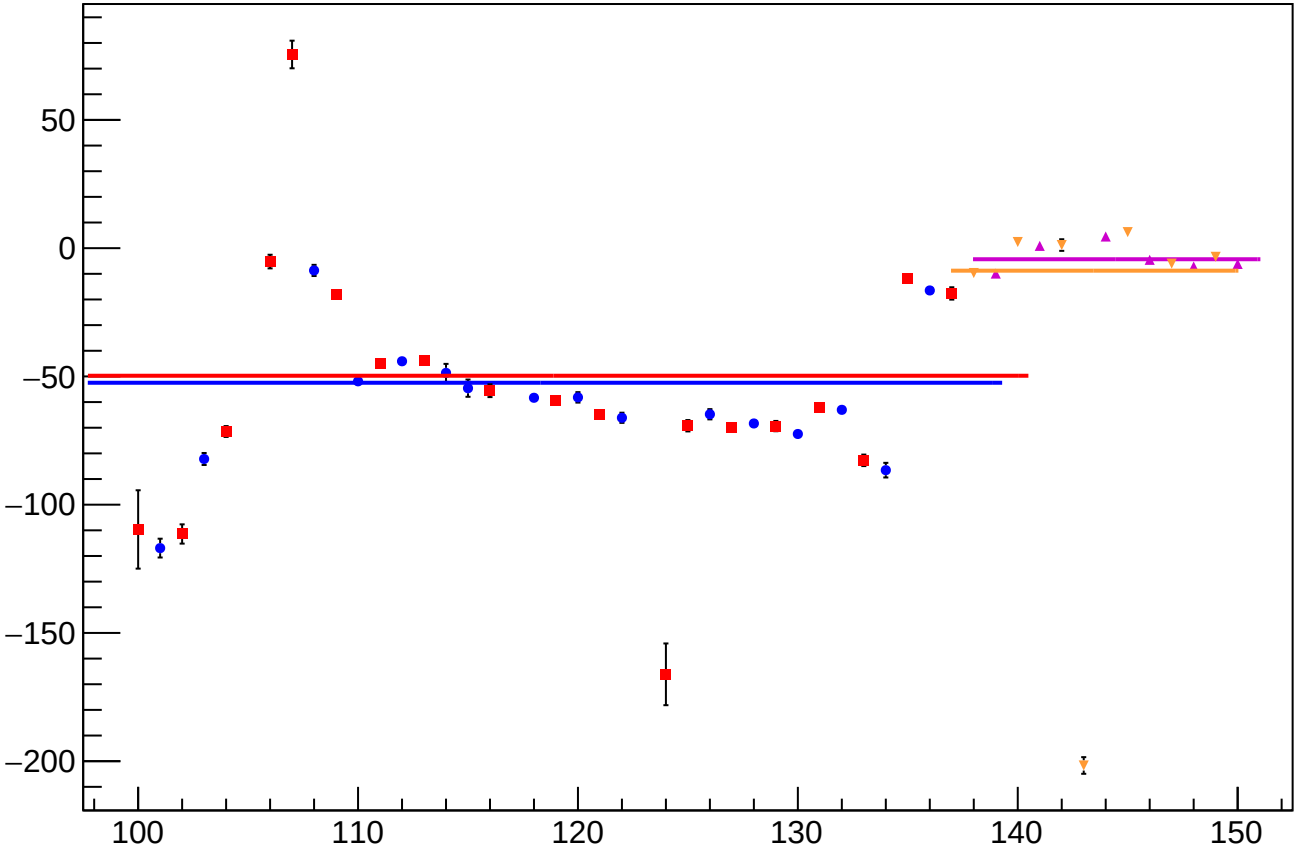
Right: 3.114+/-0.317 $\chi^2$/NDF: 432.2/34

In: 1.401+/-0.289 $\chi^2$/NDF:307.3/21

Out: 1.190+/-0.303 $\chi^2$/NDF:326.4/25

All: 1.300+/-0.209 $\chi^2$/NDF: 634.0/47

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -52.467+/-0.488 $\chi^2$/NDF: 2330.2/15

Left Out: -8.773+/-0.584 $\chi^2$/NDF:3736.6/6

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -4.315+/-0.559 $\chi^2$/NDF:71.4/5

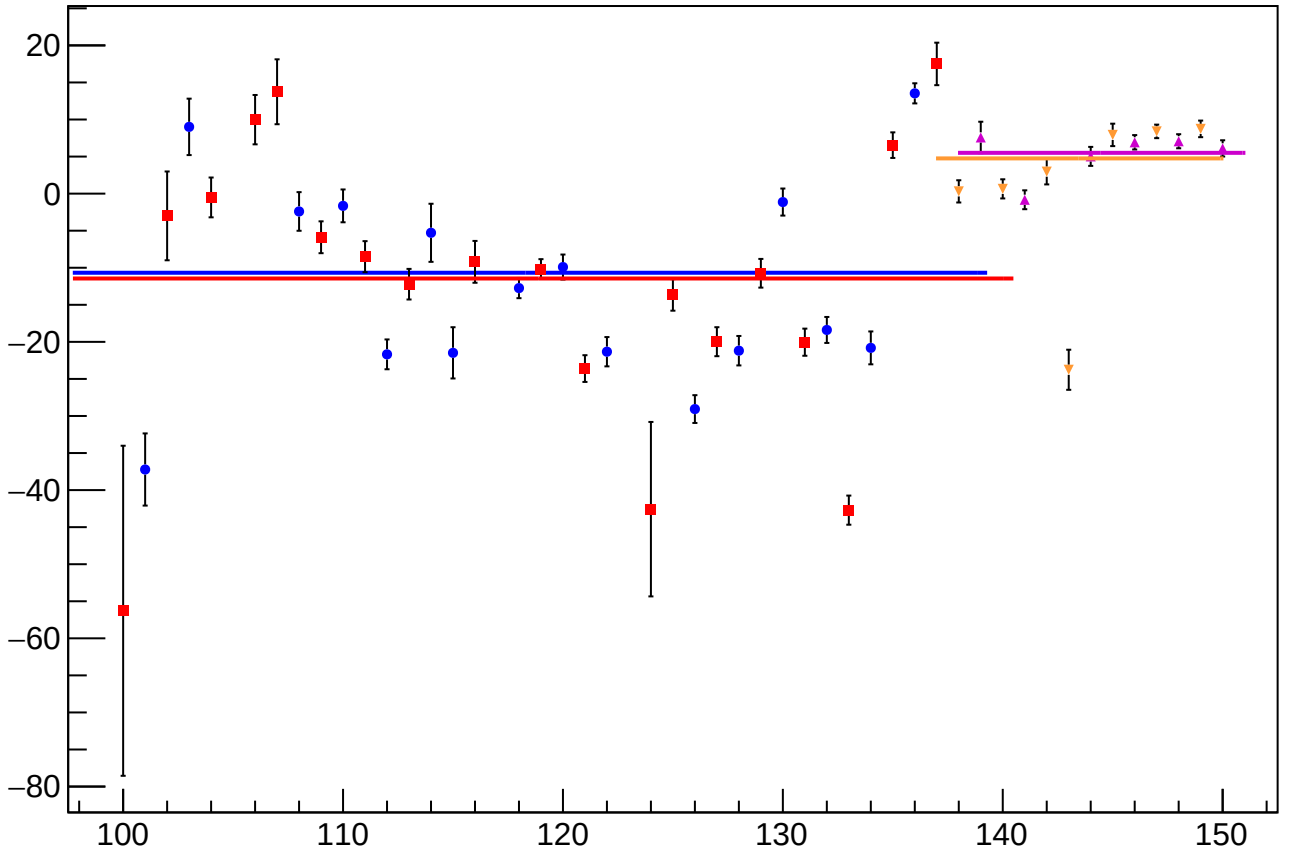
Left: -6.446+/-0.404 $\chi^2$/NDF: 3838.4/12

Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -31.632+/-0.367 $\chi^2$/NDF:6618.1/21

Out: -32.634+/-0.377 $\chi^2$/NDF:9616.0/25

All: -32.120+/-0.263 $\chi^2$/NDF: 16237.7/47




Right In: -10.675+/-0.505 $\chi^2$/NDF: 666.4/15

Left Out: 4.753+/-0.503 $\chi^2$/NDF:164.1/6

Right Out: -11.450+/-0.516 $\chi^2$/NDF: 665.7/18

Left In: 5.504+/-0.474 $\chi^2$/NDF:31.0/5

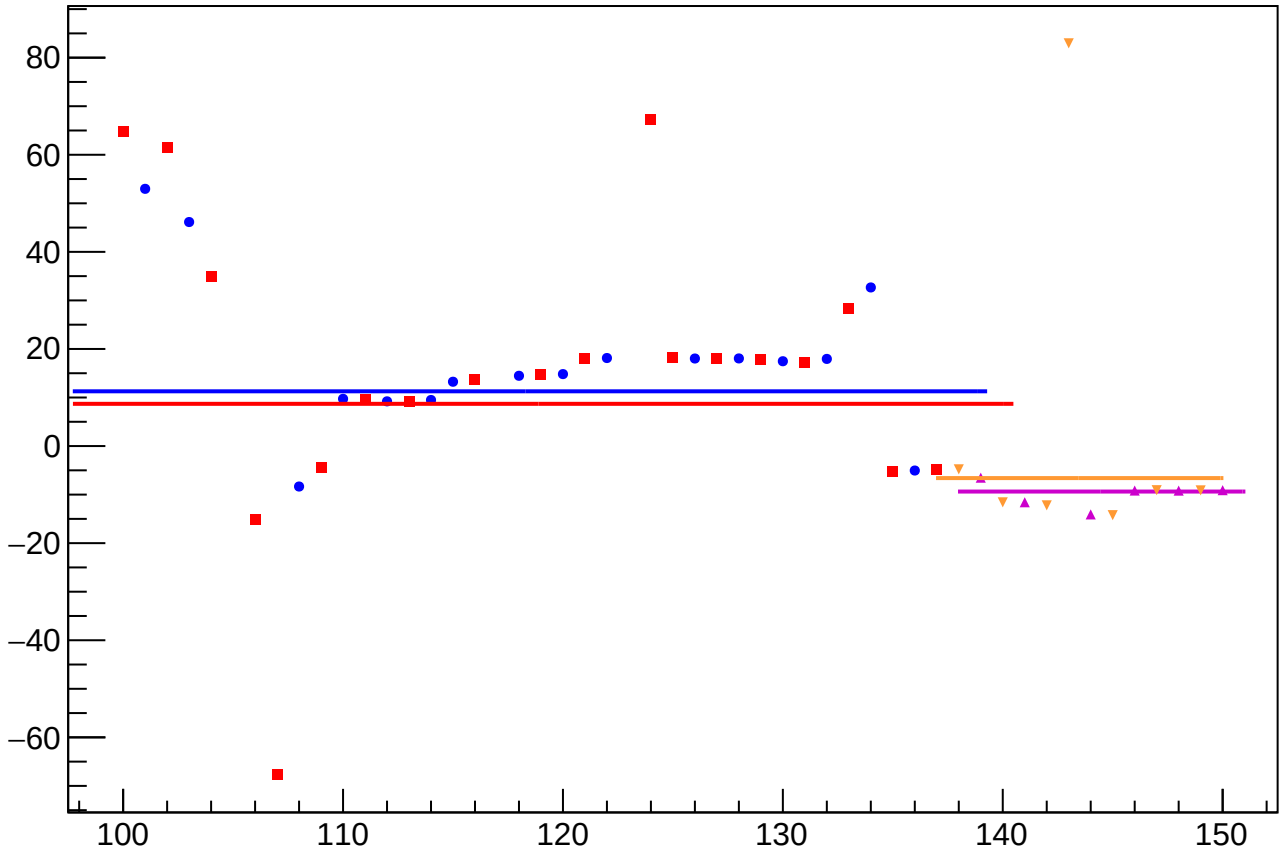
Left: 5.151+/-0.345 $\chi^2$/NDF: 196.3/12

Right: -11.054+/-0.361 $\chi^2$/NDF: 1333.3/34

In: -2.070+/-0.346 $\chi^2$/NDF:1242.3/21

Out: -3.141+/-0.360 $\chi^2$/NDF:1335.4/25

All: -2.584+/-0.249 $\chi^2$/NDF: 2582.3/47




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -6.599+/-0.024 $\chi^2$/NDF:470323.3/6

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -9.371+/-0.023 $\chi^2$/NDF:10067.8/5

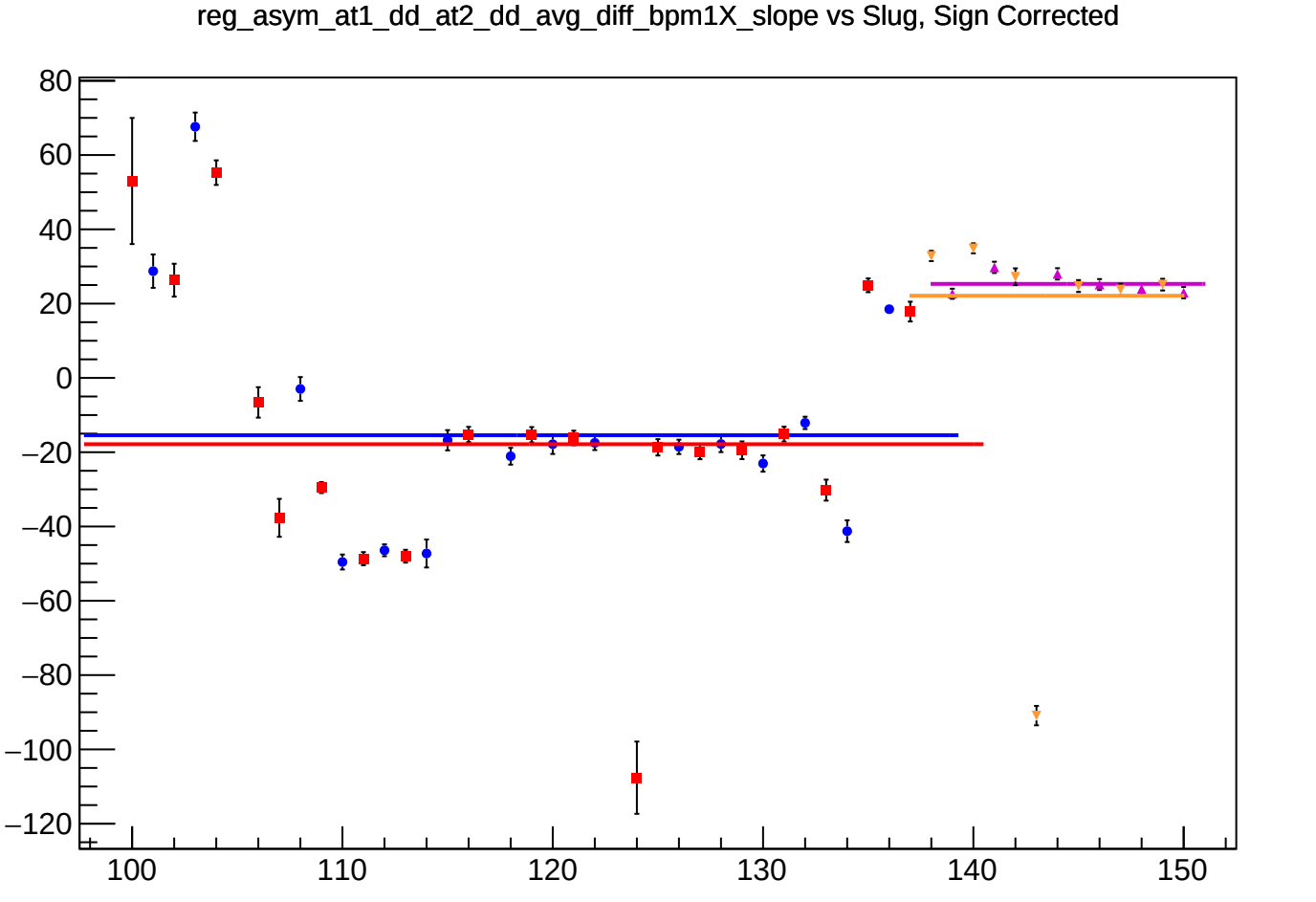
Left: -8.093+/-0.017 $\chi^2$/NDF: 487379.7/12

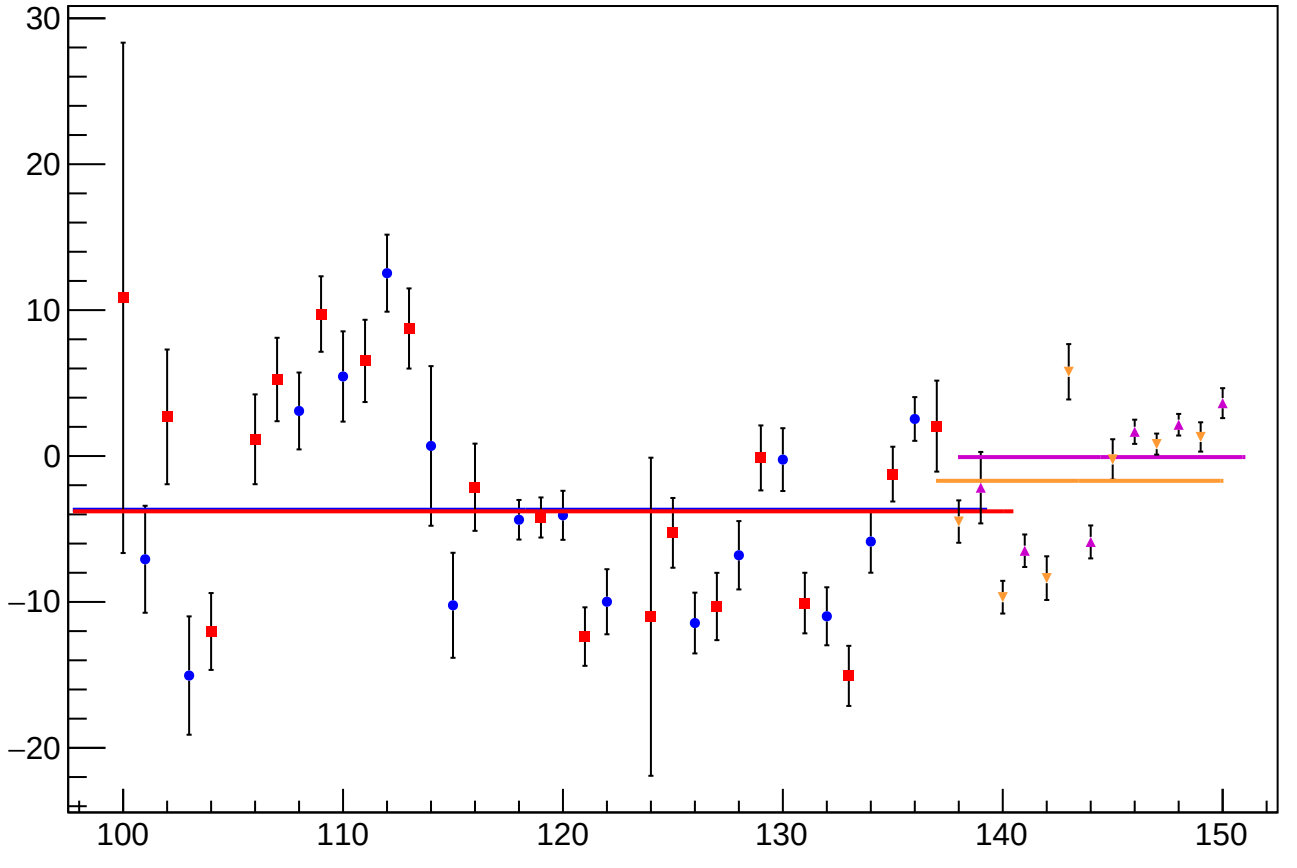
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: -1.907+/-0.018 $\chi^2$/NDF:663455.8/21

Out: -0.861+/-0.019 $\chi^2$/NDF:1054576.9/25

All: -1.419+/-0.013 $\chi^2$/NDF: 1719610.7/47


reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
−120
100
110
120
130
140
150
Right In: -15.438+/-0.539 χ²/NDF: 2124.2/15
Left Out: 22.125+/-0.618 χ²/NDF:2034.9/6
Right Out: -17.848+/-0.530 χ²/NDF: 2125.2/18
Left In: 25.311+/-0.608 χ²/NDF:18.7/5
Left: 23.744+/-0.434 χ²/NDF: 2067.1/12
Right: -16.664+/-0.378 χ²/NDF: 4259.6/34
In: 2.493+/-0.403 χ²/NDF:4657.5/21
Out: -0.927+/-0.402 χ²/NDF:6571.4/25
All: 0.778+/-0.285 χ²/NDF: 11264.9/47




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -1.697+/-0.429 $\chi^2$/NDF:111.9/6

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -0.072+/-0.409 $\chi^2$/NDF:86.7/5

Left: -0.845+/-0.296 $\chi^2$/NDF: 206.1/12

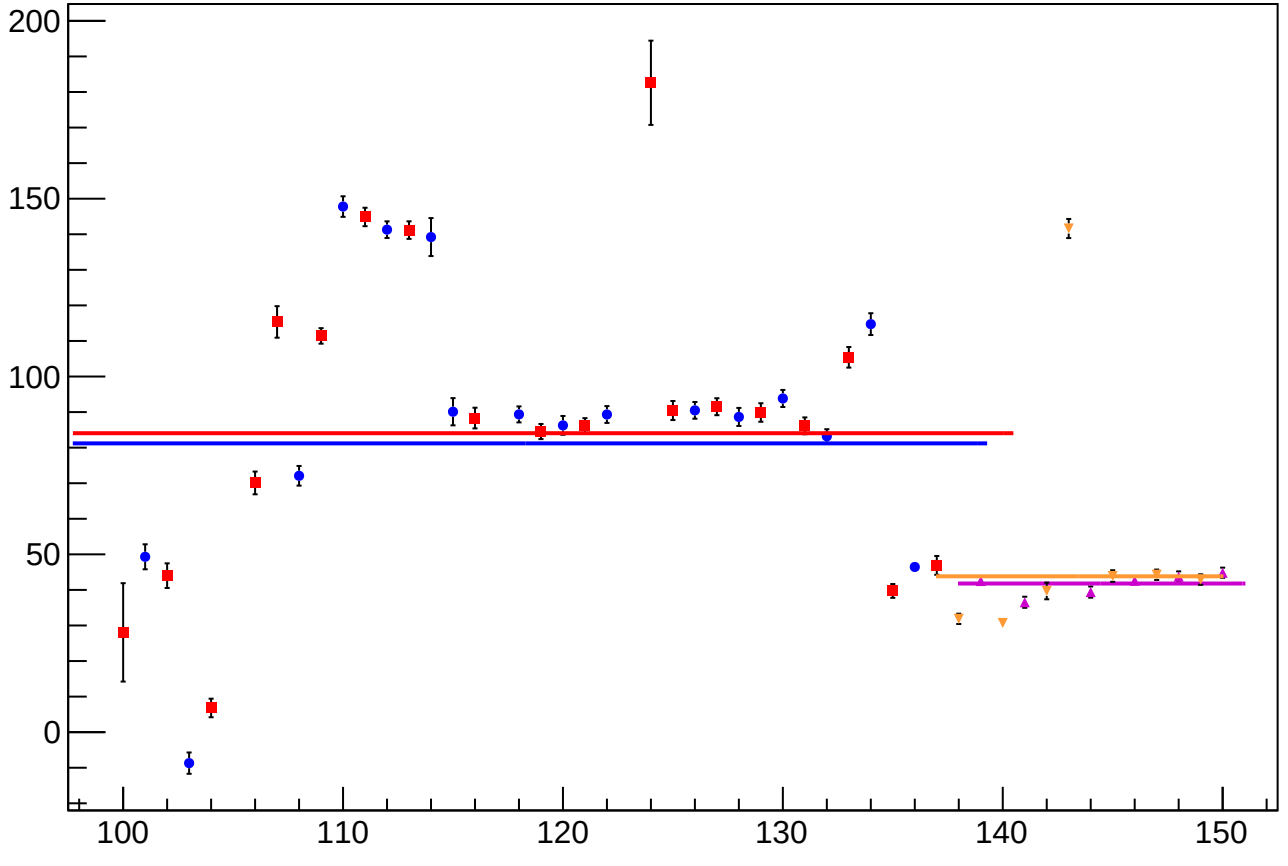
Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -1.350+/-0.329 $\chi^2$/NDF:238.2/21

Out: -2.465+/-0.342 $\chi^2$/NDF:281.9/25

All: -1.886+/-0.237 $\chi^2$/NDF: 525.6/47

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 81.203+/-0.607 $\chi^2$/NDF: 3230.5/15

Left Out: 43.824+/-0.617 $\chi^2$/NDF:1487.3/6

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 41.798+/-0.600 $\chi^2$/NDF:20.7/5

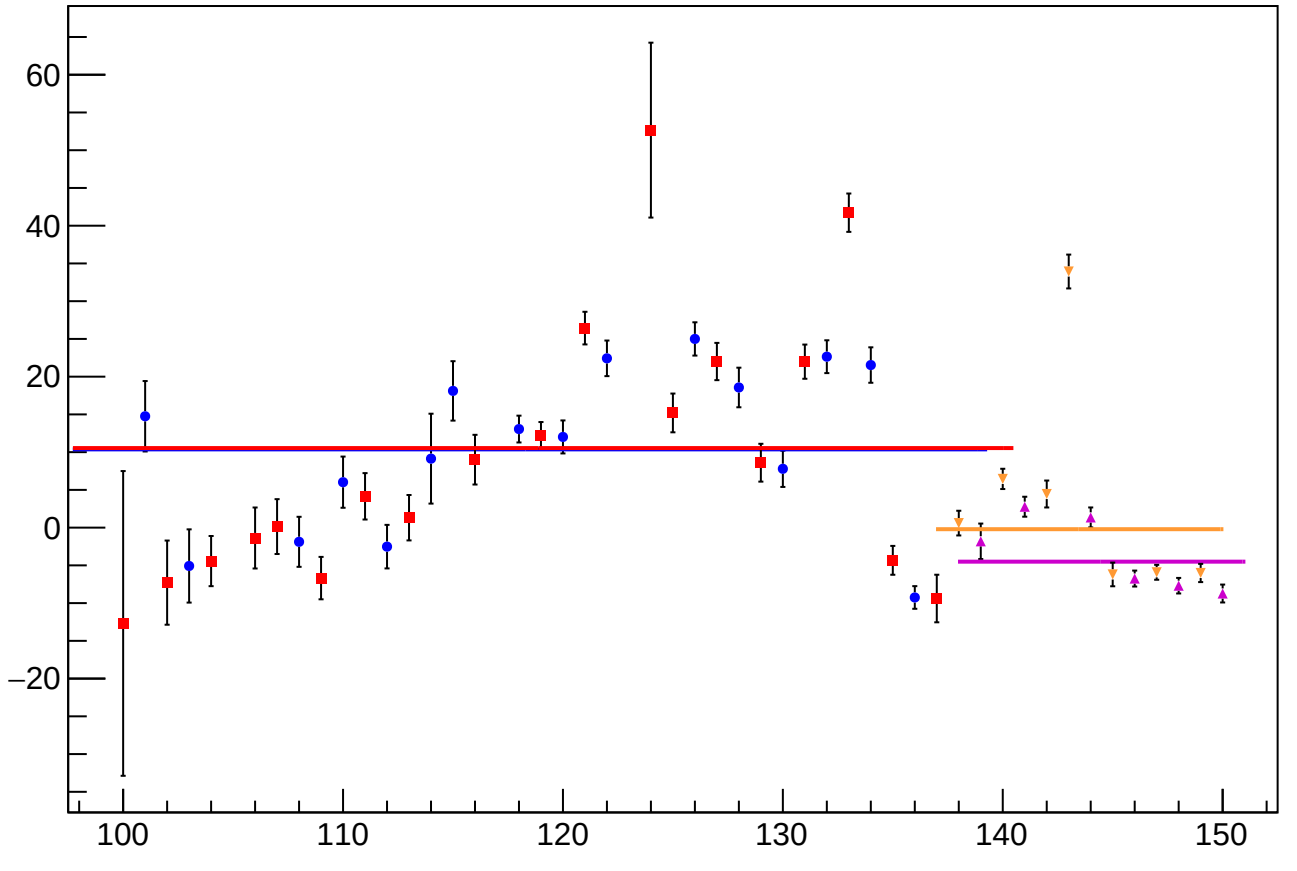
Left: 42.784+/-0.430 $\chi^2$/NDF: 1513.5/12

Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 61.276+/-0.427 $\chi^2$/NDF:5382.0/21

Out: 63.956+/-0.436 $\chi^2$/NDF:6824.4/25

All: 62.588+/-0.305 $\chi^2$/NDF: 12225.7/47




Right In: 10.367+/-0.627 $\chi^2$/NDF: 359.8/15

Left Out: -0.207+/-0.530 $\chi^2$/NDF:334.8/6

Right Out: 10.539+/-0.640 $\chi^2$/NDF: 470.7/18

Left In: -4.509+/-0.508 $\chi^2$/NDF:78.0/5

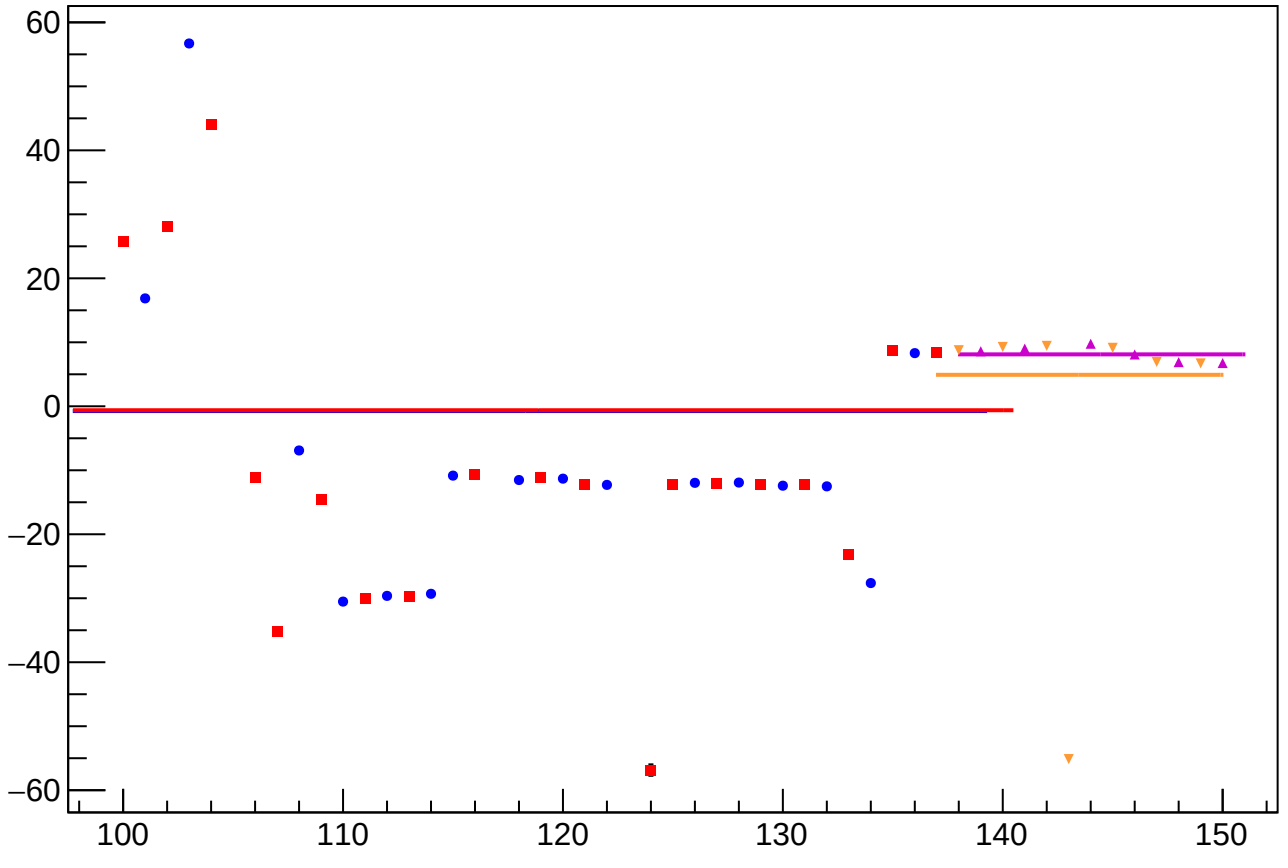
Left: -2.450+/-0.367 $\chi^2$/NDF: 447.1/12

Right: 10.451+/-0.448 $\chi^2$/NDF: 830.5/34

In: 1.392+/-0.395 $\chi^2$/NDF:777.9/21

Out: 4.163+/-0.408 $\chi^2$/NDF:972.7/25

All: 2.730+/-0.284 $\chi^2$/NDF: 1774.4/47




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 4.919+/-0.026 $\chi^2$/NDF:306746.6/6

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 8.114+/-0.024 $\chi^2$/NDF:1819.2/5

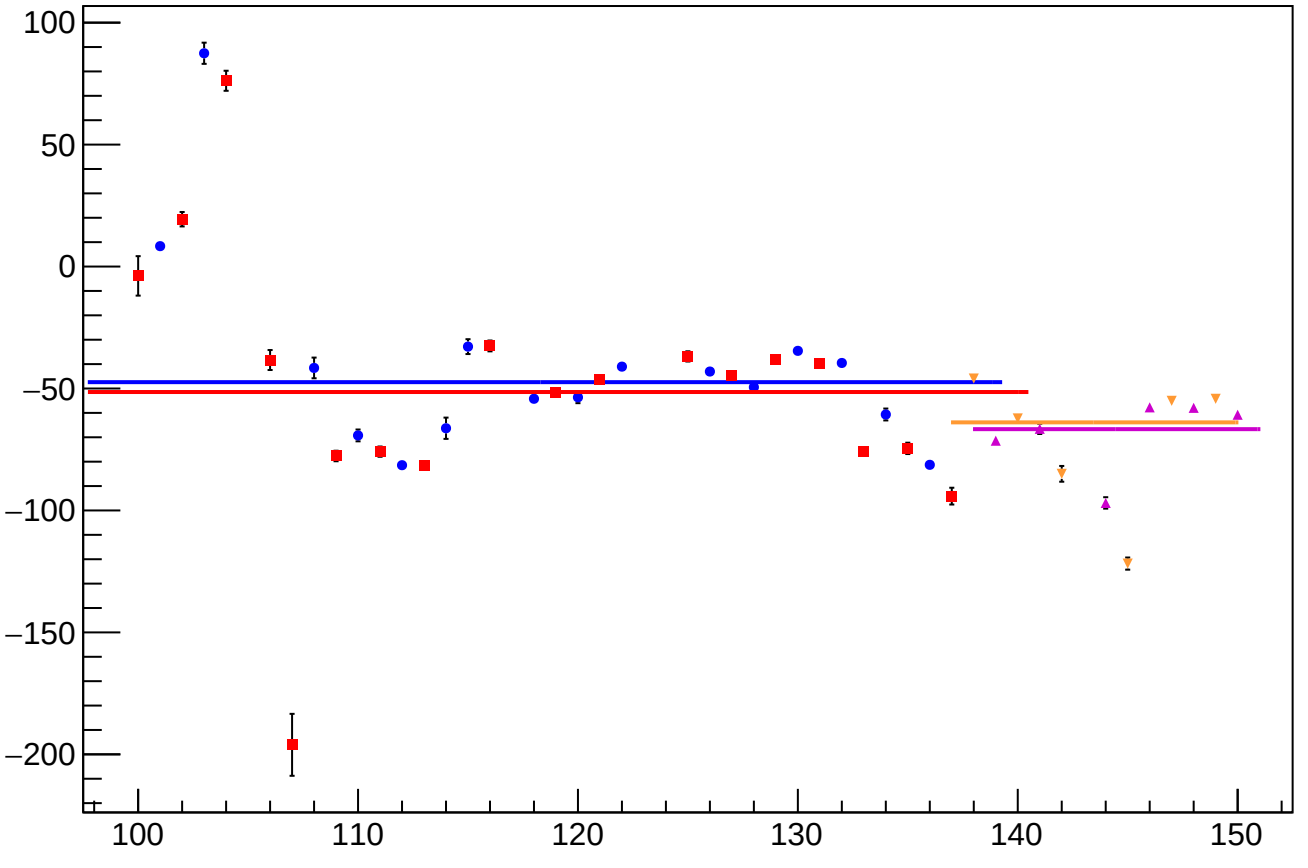
Left: 6.612+/-0.018 $\chi^2$/NDF: 316716.1/12

Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 5.334+/-0.020 $\chi^2$/NDF:411648.8/21

Out: 3.133+/-0.021 $\chi^2$/NDF:638142.1/25

All: 4.292+/-0.015 $\chi^2$/NDF: 1055467.6/47




Right In: -47.398+/-0.535 $\chi^2$/NDF: 2769.0/15

Left Out: -63.887+/-0.840 $\chi^2$/NDF:733.0/5

Right Out: -51.442+/-0.545 $\chi^2$/NDF: 2872.7/17

Left In: -66.669+/-0.793 $\chi^2$/NDF:229.7/5

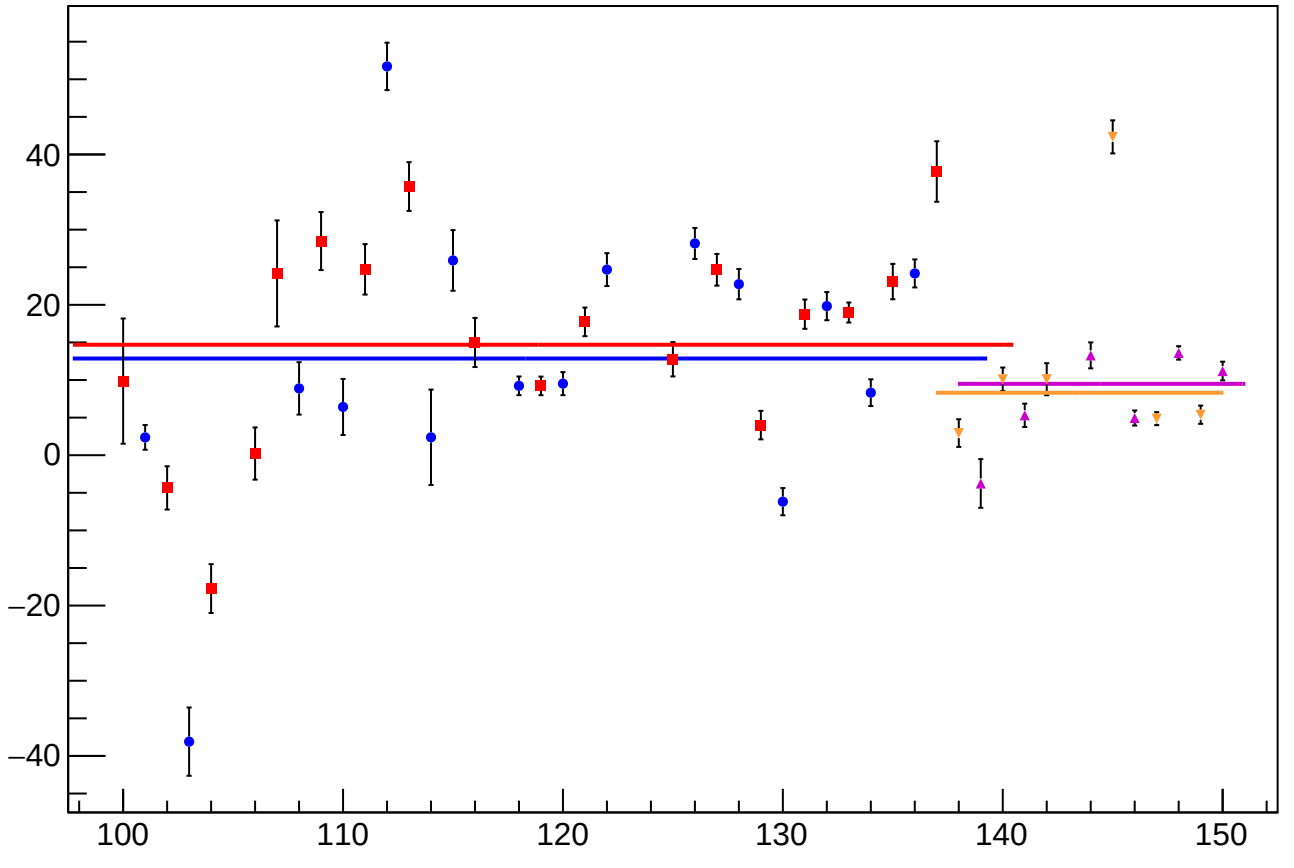
Left: -65.359+/-0.576 $\chi^2$/NDF: 968.6/11

Right: -49.383+/-0.382 $\chi^2$/NDF: 5669.8/33

In: -53.432+/-0.443 $\chi^2$/NDF:3404.8/21

Out: -55.133+/-0.457 $\chi^2$/NDF:3760.3/23

All: -54.256+/-0.318 $\chi^2$/NDF: 7172.3/45




Right In: 12.860+/-0.519 $\chi^2$/NDF: 625.5/15

Left Out: 8.307+/-0.564 $\chi^2$/NDF:271.6/5

Right Out: 14.691+/-0.544 $\chi^2$/NDF: 364.1/17

Left In: 9.488+/-0.518 $\chi^2$/NDF:72.3/5

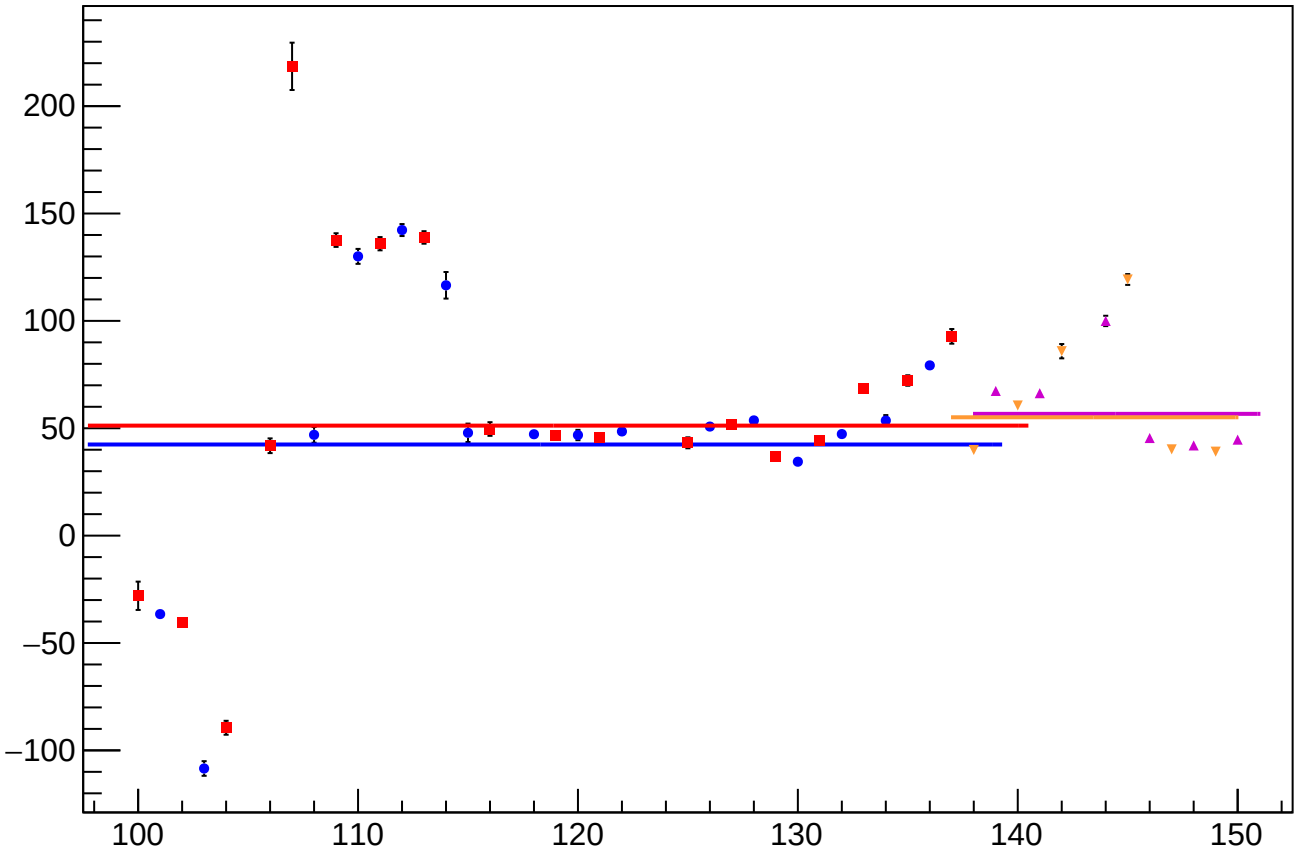
Left: 8.948+/-0.381 $\chi^2$/NDF: 346.3/11

Right: 13.731+/-0.375 $\chi^2$/NDF: 995.5/33

In: 11.170+/-0.366 $\chi^2$/NDF:718.9/21

Out: 11.611+/-0.392 $\chi^2$/NDF:702.1/23

All: 11.376+/-0.268 $\chi^2$/NDF: 1421.7/45




Right In: 42.437+/-0.584 $\chi^2$/NDF: 7168.9/15

Left Out: 55.110+/-0.830 $\chi^2$/NDF:964.0/5

Right Out: 51.226+/-0.615 $\chi^2$/NDF: 6611.3/17

Left In: 56.707+/-0.777 $\chi^2$/NDF:533.3/5

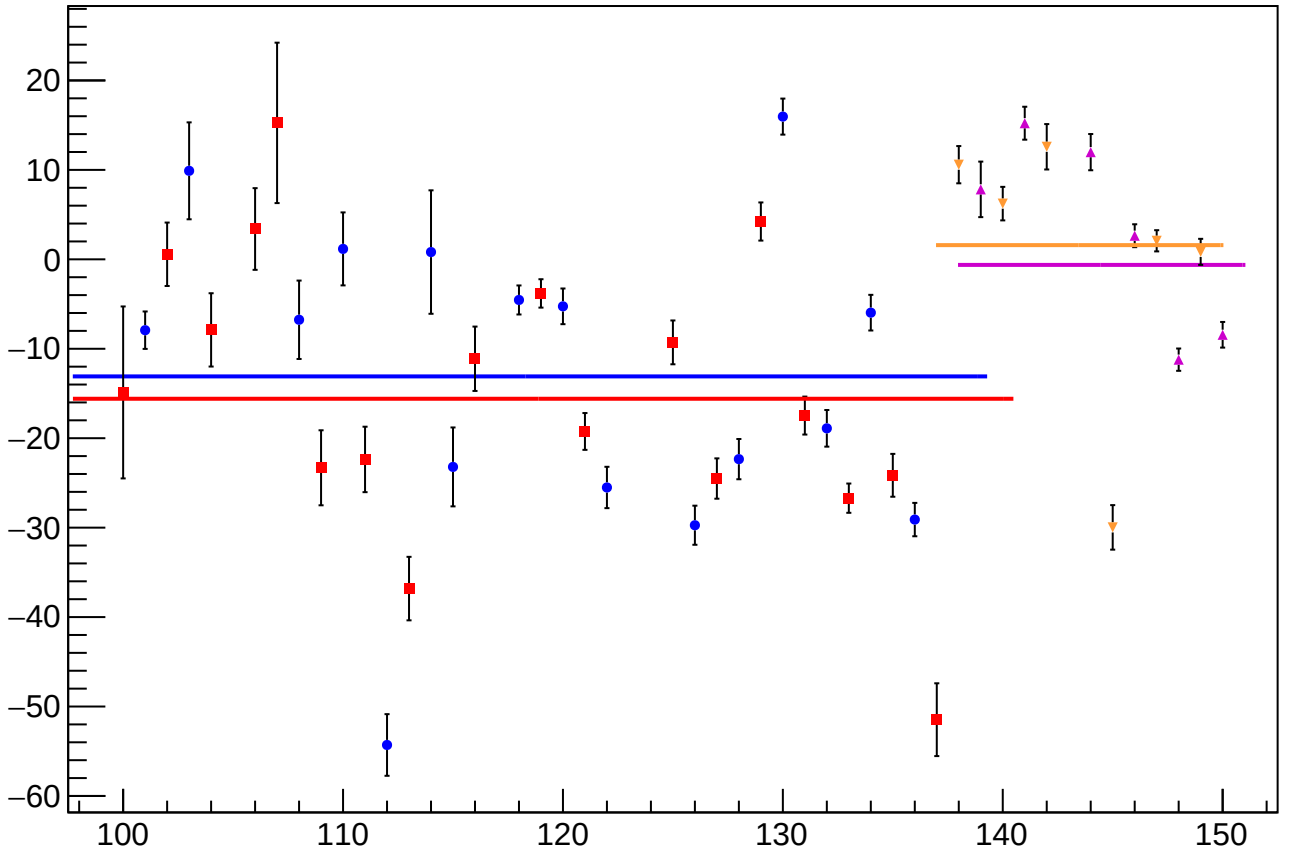
Left: 55.961+/-0.567 $\chi^2$/NDF: 1499.4/11

Right: 46.608+/-0.424 $\chi^2$/NDF: 13887.6/33

In: 47.591+/-0.467 $\chi^2$/NDF:7917.7/21

Out: 52.601+/-0.494 $\chi^2$/NDF:7589.5/23

All: 49.955+/-0.339 $\chi^2$/NDF: 15561.4/45




Right In: -13.090+/-0.600 $\chi^2$/NDF: 639.9/15

Left Out: 1.587+/-0.705 $\chi^2$/NDF:204.7/5

Right Out: -15.589+/-0.627 $\chi^2$/NDF: 401.8/17

Left In: -0.624+/-0.648 $\chi^2$/NDF:228.5/5

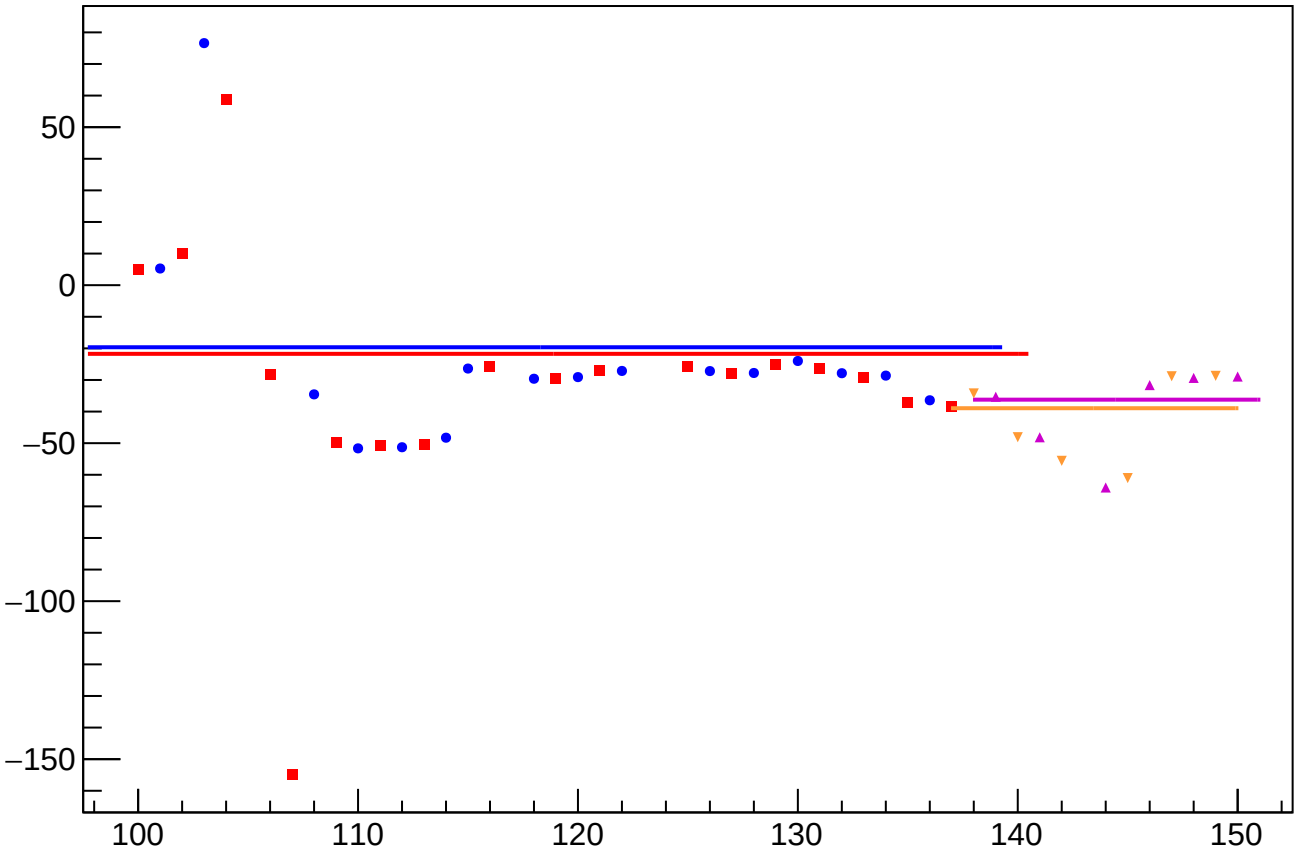
Left: 0.389+/-0.477 $\chi^2$/NDF: 438.5/11

Right: -14.285+/-0.433 $\chi^2$/NDF: 1050.0/33

In: -7.339+/-0.440 $\chi^2$/NDF:1067.8/21

Out: -8.001+/-0.468 $\chi^2$/NDF:938.2/23

All: -7.649+/-0.321 $\chi^2$/NDF: 2007.0/45




Right In: -19.644+/-0.036 $\chi^2$/NDF: 646925.7/15

Left Out: -38.938+/-0.035 $\chi^2$/NDF:115697.9/5

Right Out: -21.730+/-0.039 $\chi^2$/NDF: 546659.9/17

Left In: -36.230+/-0.031 $\chi^2$/NDF:108076.3/5

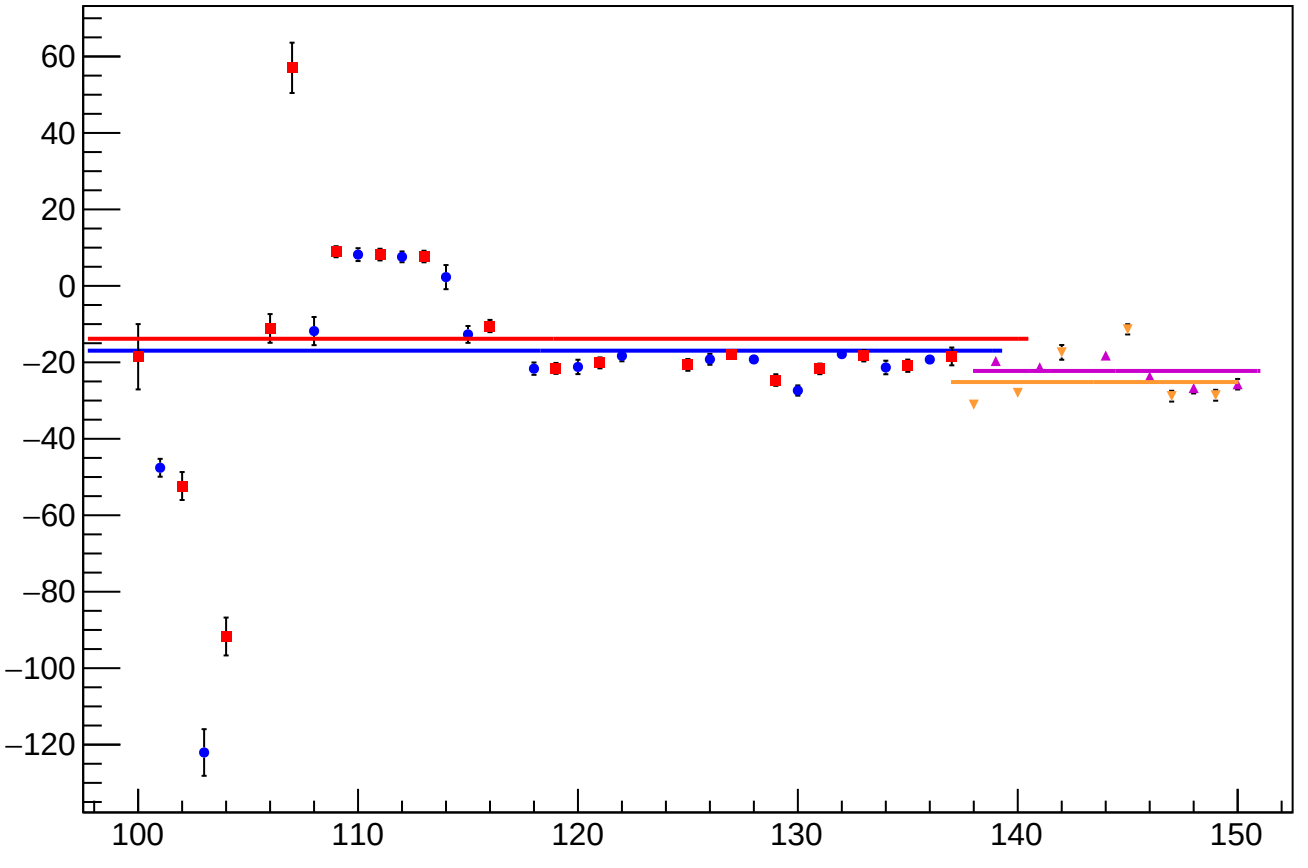
Left: -37.440+/-0.023 $\chi^2$/NDF: 227108.4/11

Right: -20.610+/-0.026 $\chi^2$/NDF: 1195130.0/33

In: -29.101+/-0.024 $\chi^2$/NDF:875286.8/21

Out: -31.266+/-0.026 $\chi^2$/NDF:770868.7/23

All: -30.084+/-0.017 $\chi^2$/NDF: 1649952.6/45




Right In: -16.949+/-0.404 $\chi^2$/NDF: 1128.2/15

Left Out: -25.154+/-0.552 $\chi^2$/NDF:165.8/5

Right Out: -13.837+/-0.409 $\chi^2$/NDF: 1333.2/17

Left In: -22.251+/-0.529 $\chi^2$/NDF:33.1/5

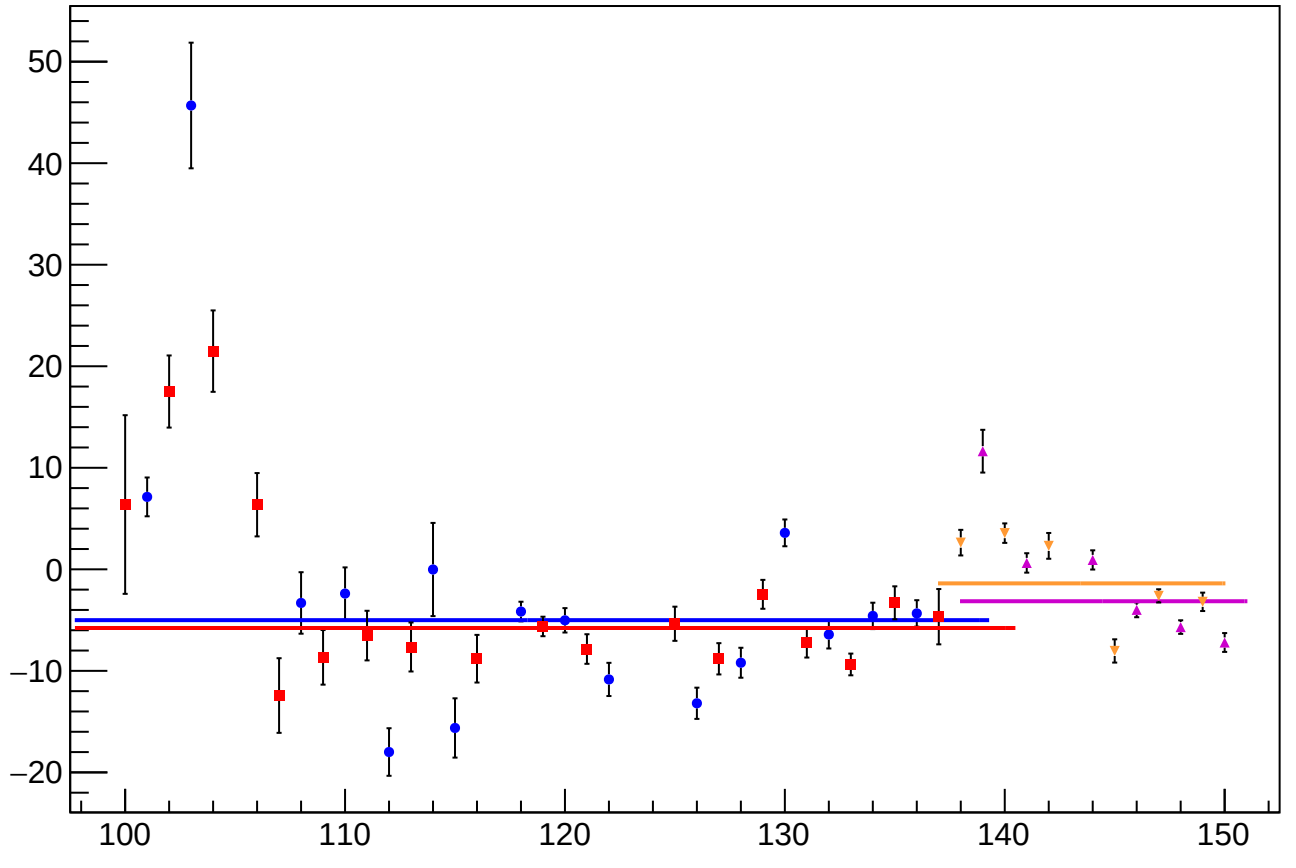
Left: -23.642+/-0.382 $\chi^2$/NDF: 213.3/11

Right: -15.414+/-0.287 $\chi^2$/NDF: 2490.7/33

In: -18.900+/-0.321 $\chi^2$/NDF:1224.7/21

Out: -17.850+/-0.329 $\chi^2$/NDF:1770.2/23

All: -18.387+/-0.230 $\chi^2$/NDF: 3000.2/45




Right In: -5.006+/-0.401 $\chi^2$/NDF: 247.8/15

Left Out: -1.384+/-0.387 $\chi^2$/NDF:86.5/5

Right Out: -5.779+/-0.419 $\chi^2$/NDF: 139.3/17

Left In: -3.143+/-0.360 $\chi^2$/NDF:118.3/5

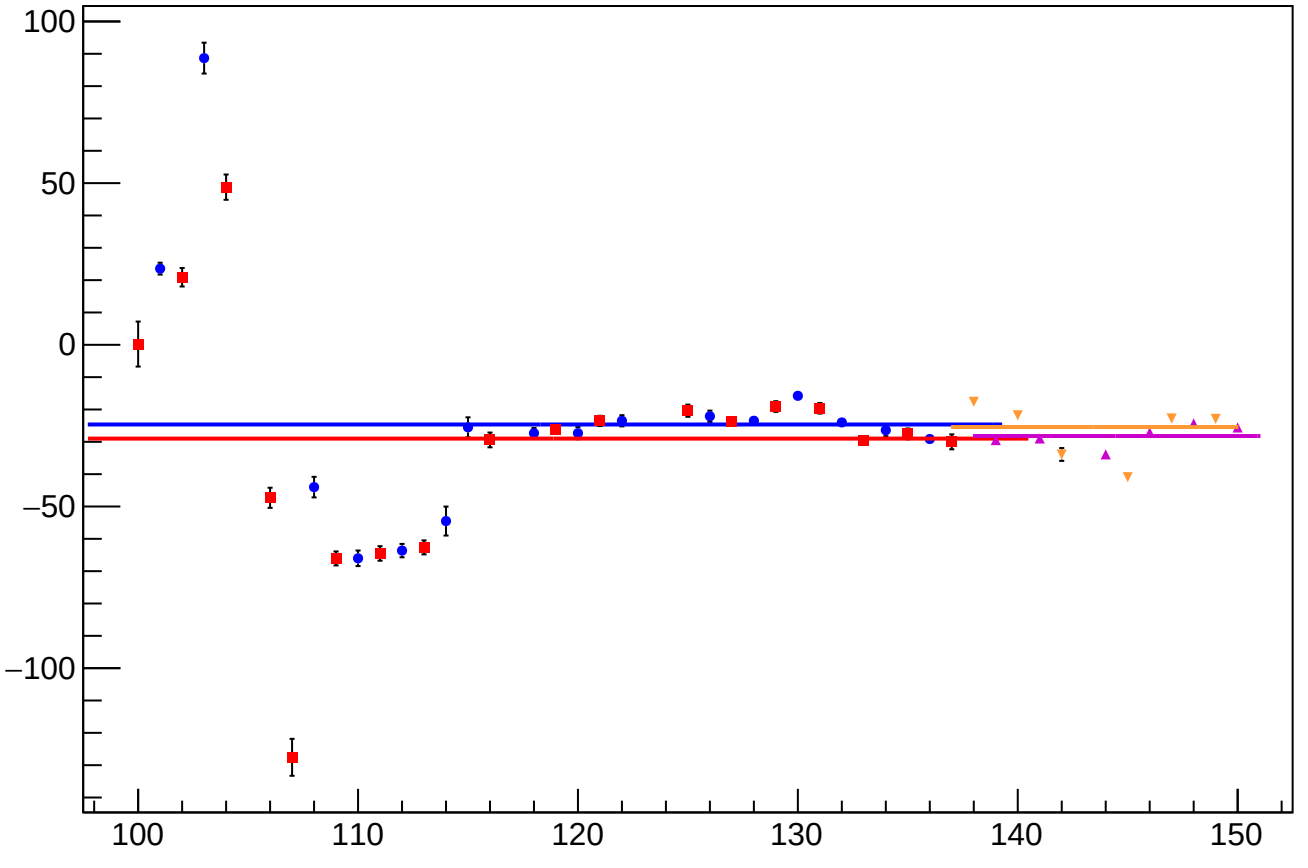
Left: -2.327+/-0.264 $\chi^2$/NDF: 215.9/11

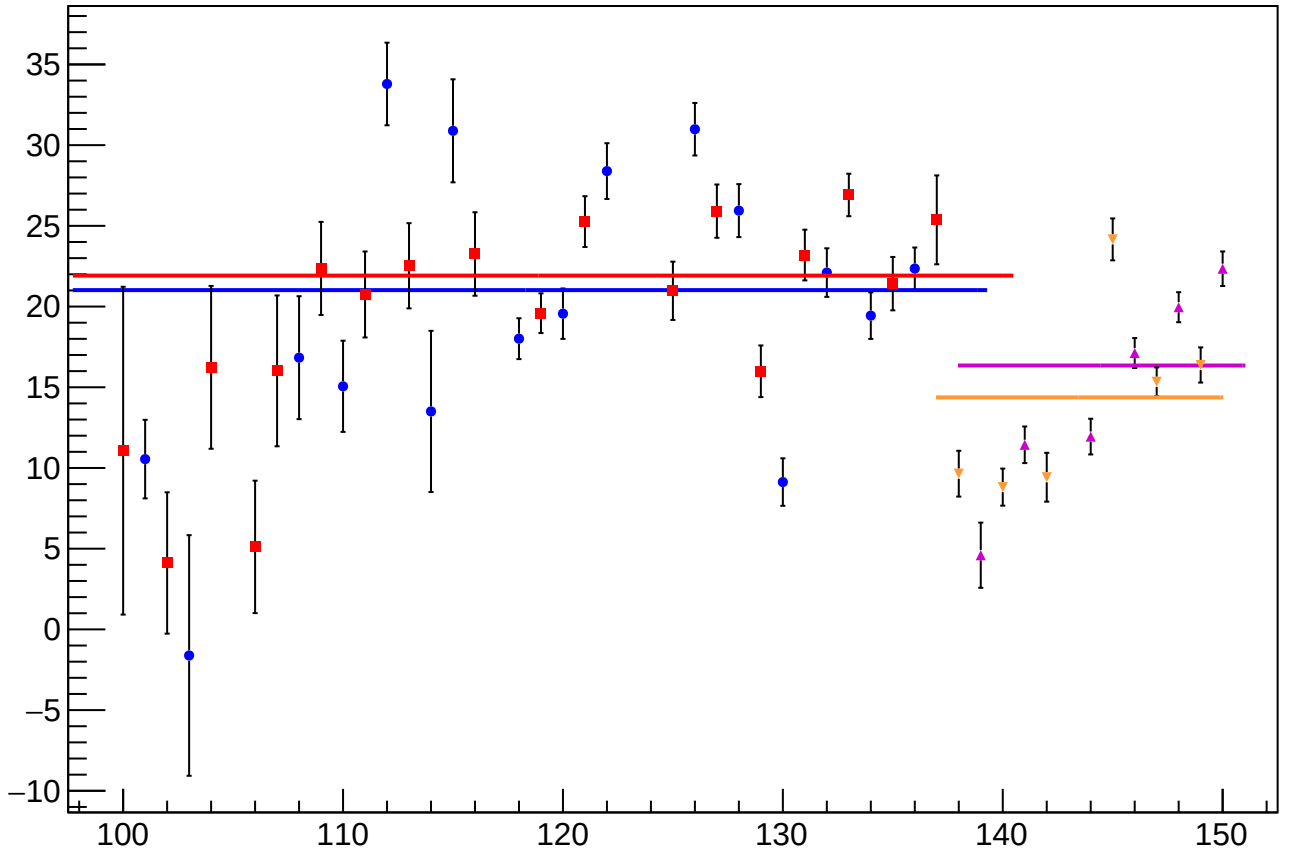
Right: -5.375+/-0.290 $\chi^2$/NDF: 388.9/33

In: -3.973+/-0.268 $\chi^2$/NDF:378.0/21

Out: -3.405+/-0.284 $\chi^2$/NDF:285.2/23

All: -3.706+/-0.195 $\chi^2$/NDF: 665.3/45


reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
100
50
0
−50
−100
100
110
120
130
140
150
Right In: -24.641+/-0.455 χ²/NDF: 2051.8/15
Left Out: -25.419+/-0.551 χ²/NDF:203.9/5
Right Out: -29.002+/-0.475 χ²/NDF: 1952.3/17
Left In: -28.207+/-0.524 χ²/NDF:33.6/5
Left: -26.884+/-0.380 χ²/NDF: 251.0/11
Right: -26.727+/-0.329 χ²/NDF: 4048.0/33
In: -26.175+/-0.343 χ²/NDF:2111.9/21
Out: -27.474+/-0.360 χ²/NDF:2180.4/23
All: -26.794+/-0.248 χ²/NDF: 4299.1/45




Right In: 21.019+/-0.458 $\chi^2$/NDF: 209.6/15

Left Out: 14.372+/-0.477 $\chi^2$/NDF:106.6/5

Right Out: 21.918+/-0.478 $\chi^2$/NDF: 82.5/17

Left In: 16.348+/-0.446 $\chi^2$/NDF:115.5/5

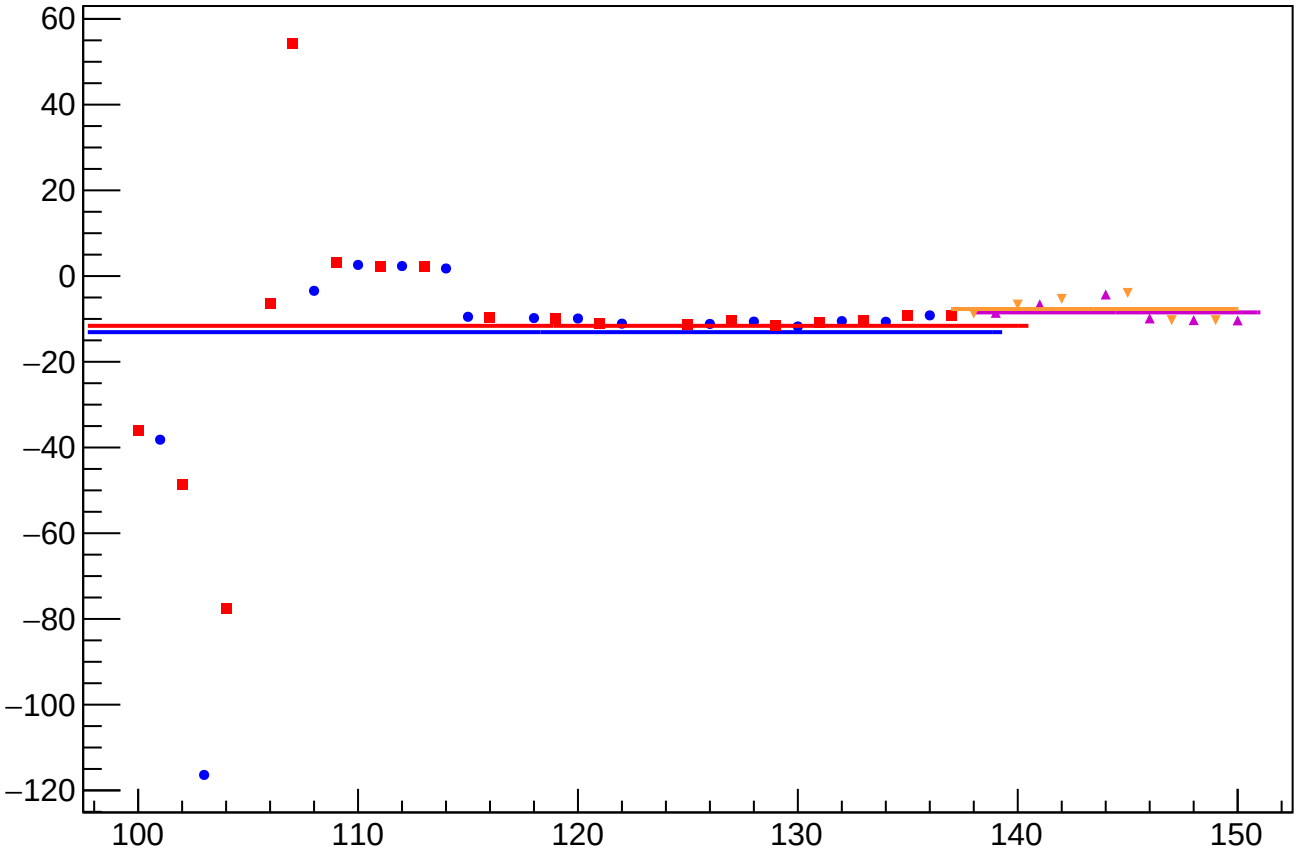
Left: 15.428+/-0.326 $\chi^2$/NDF: 231.3/11

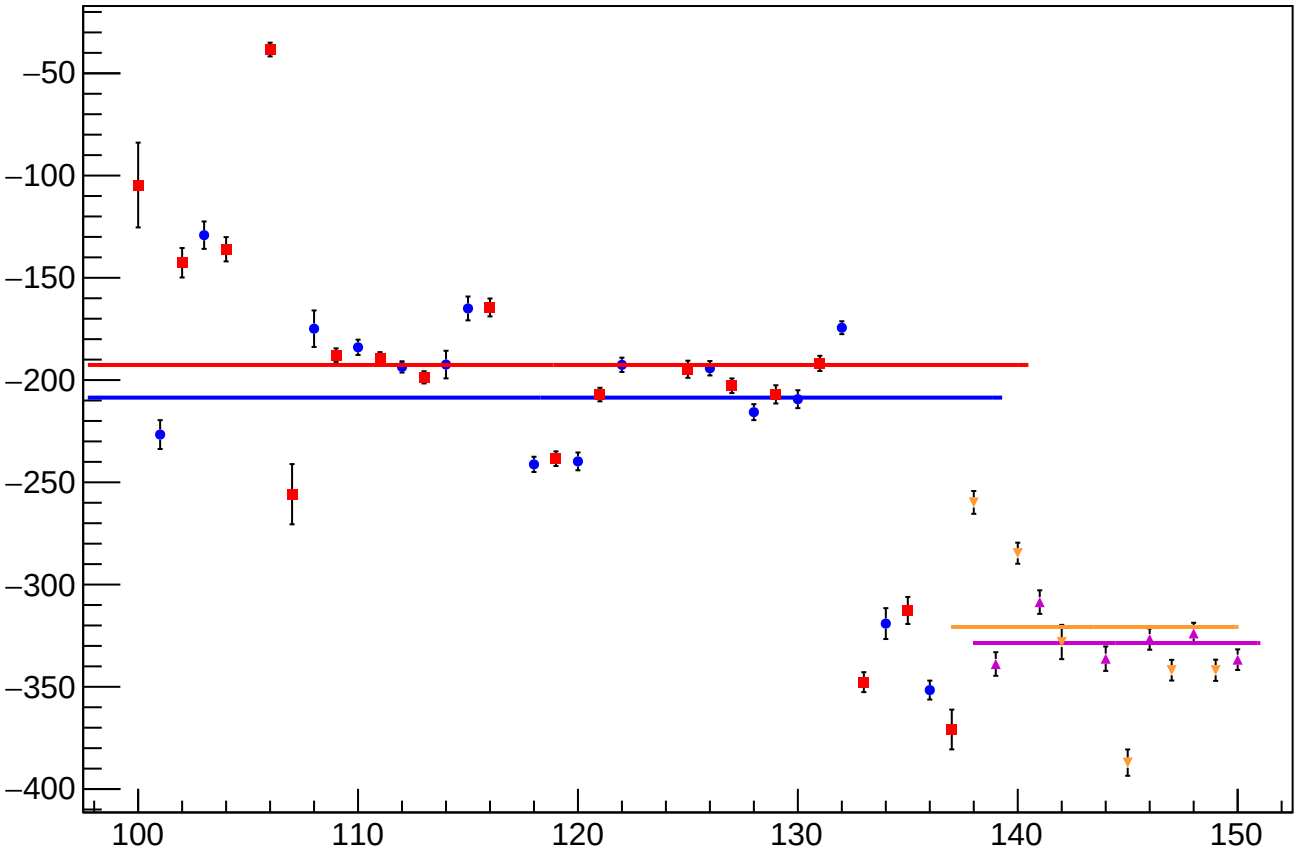
Right: 21.449+/-0.331 $\chi^2$/NDF: 294.0/33

In: 18.620+/-0.320 $\chi^2$/NDF:378.5/21

Out: 18.137+/-0.338 $\chi^2$/NDF:313.8/23

All: 18.392+/-0.232 $\chi^2$/NDF: 693.4/45


reg_asym_usl_atl1_dd_diff_bpm12X_slope vs Slug, Sign Corrected
60
40
20
0
−20
−40
−60
−80
−100
−120
100
110
120
130
140
150
Right In: -13.086+/-0.028 χ²/NDF: 344941.2/15
Left Out: -7.690+/-0.023 χ²/NDF:10709.7/5
Right Out: -11.610+/-0.031 χ²/NDF: 314183.9/17
Left In: -8.476+/-0.021 χ²/NDF:9338.6/5
Left: -8.115+/-0.016 χ²/NDF: 20681.2/11
Right: -12.409+/-0.021 χ²/NDF: 660362.1/33
In: -10.124+/-0.017 χ²/NDF:371198.6/21
Out: -9.088+/-0.018 χ²/NDF:335253.4/23
All: -9.649+/-0.012 χ²/NDF: 708156.7/45




Right In: -208.586+/-1.067 $\chi^2$/NDF: 1751.1/15

Left Out: -320.739+/-2.329 $\chi^2$/NDF:309.1/5

Right Out: -192.617+/-0.999 $\chi^2$/NDF: 4207.1/17

Left In: -328.569+/-2.231 $\chi^2$/NDF:20.4/5

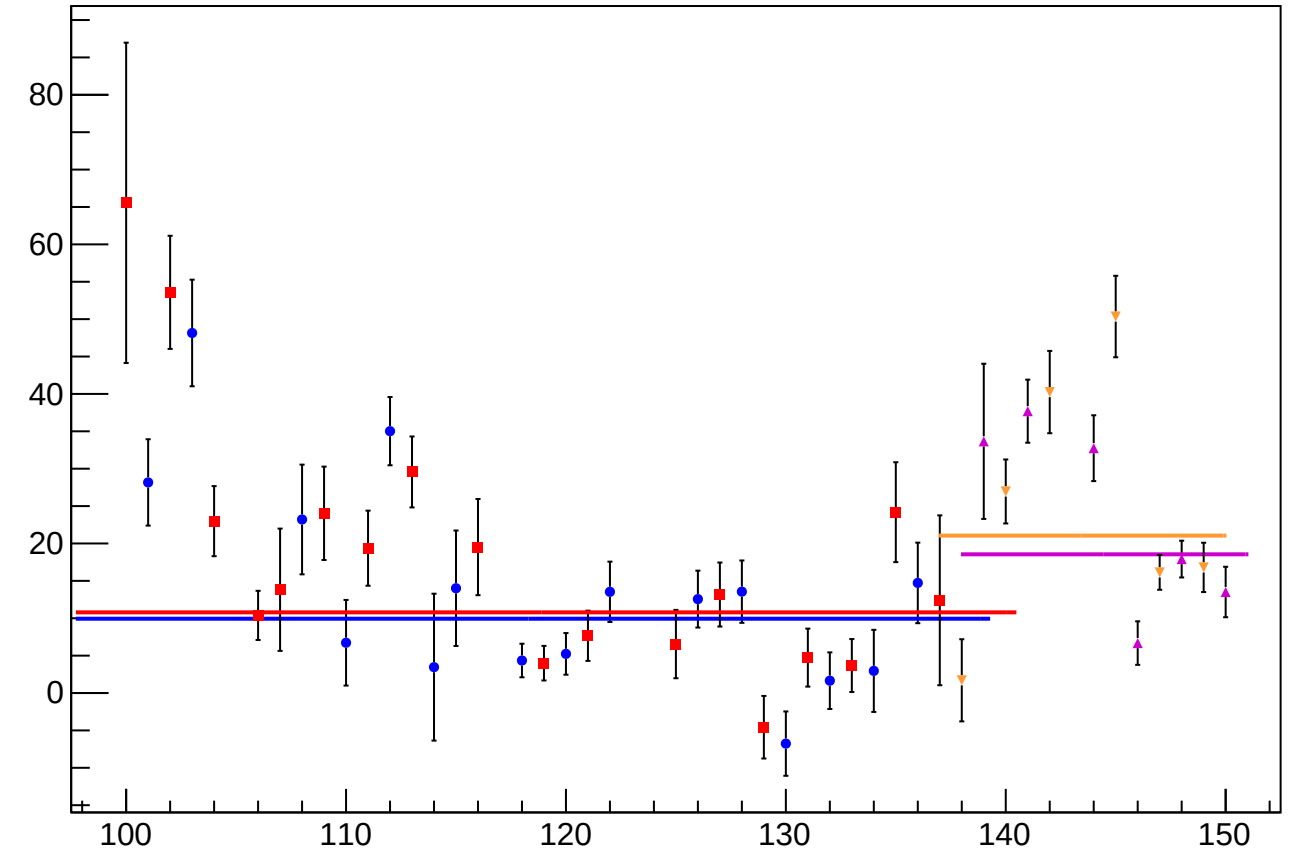
Left: -324.822+/-1.611 $\chi^2$/NDF: 335.3/11

Right: -200.079+/-0.729 $\chi^2$/NDF: 6077.7/33

In: -230.903+/-0.962 $\chi^2$/NDF:4125.6/21

Out: -212.521+/-0.918 $\chi^2$/NDF:7072.2/23

All: -221.280+/-0.664 $\chi^2$/NDF: 11388.8/45




Right In: 9.938+/-1.065 $\chi^2$/NDF: 106.6/15

Left Out: 21.053+/-1.522 $\chi^2$/NDF:61.5/5

Right Out: 10.788+/-1.044 $\chi^2$/NDF: 105.1/17

Left In: 18.550+/-1.431 $\chi^2$/NDF:52.0/5

Left: 19.724+/-1.043 $\chi^2$/NDF: 115.0/11

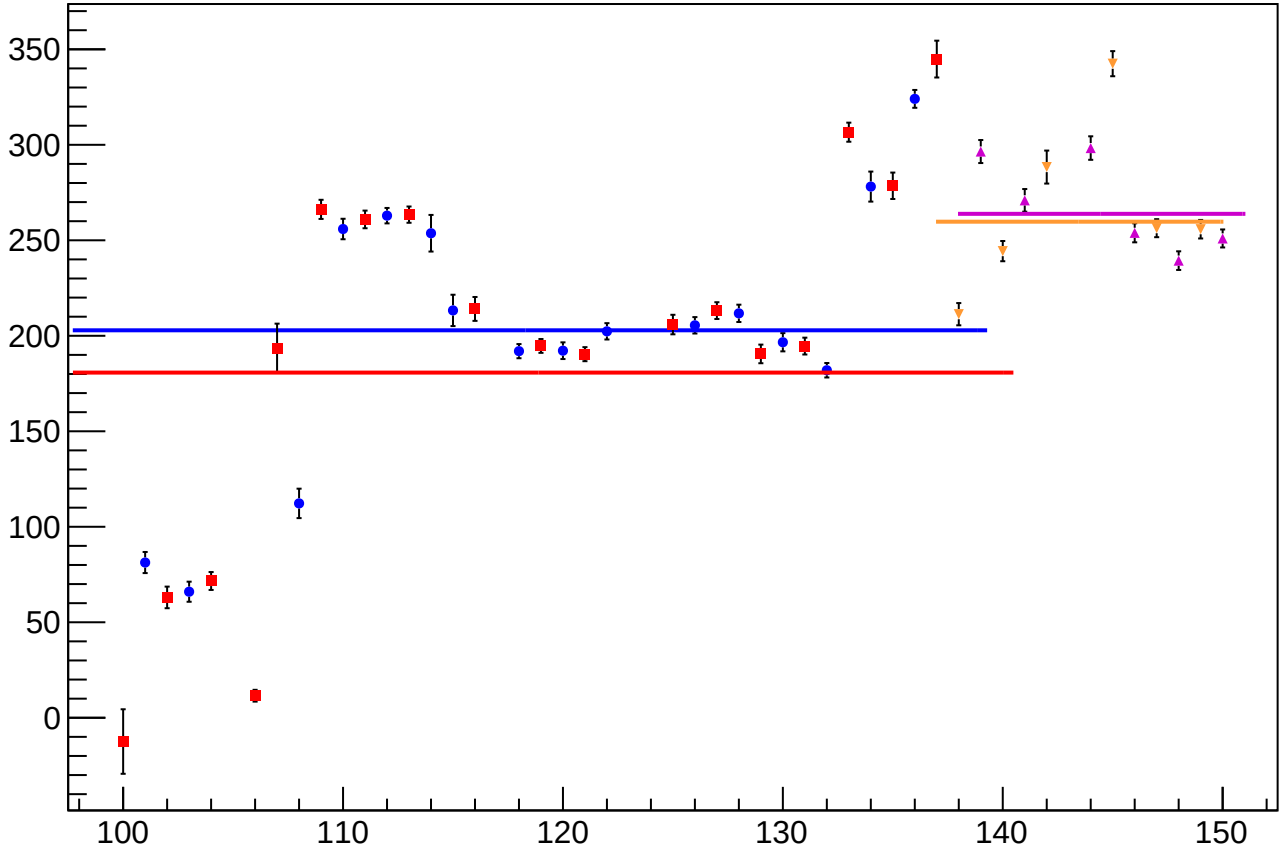
Right: 10.372+/-0.746 $\chi^2$/NDF: 212.0/33

In: 13.010+/-0.855 $\chi^2$/NDF:181.9/21

Out: 14.070+/-0.861 $\chi^2$/NDF:197.5/23

All: 13.536+/-0.606 $\chi^2$/NDF: 380.2/45

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 202.874+/-1.226 $\chi^2$/NDF: 2464.2/15

Left Out: 259.743+/-2.299 $\chi^2$/NDF:248.2/5

Right Out: 180.731+/-1.144 $\chi^2$/NDF: 6347.9/17

Left In: 263.856+/-2.183 $\chi^2$/NDF:98.7/5

Left: 261.906+/-1.583 $\chi^2$/NDF: 348.6/11

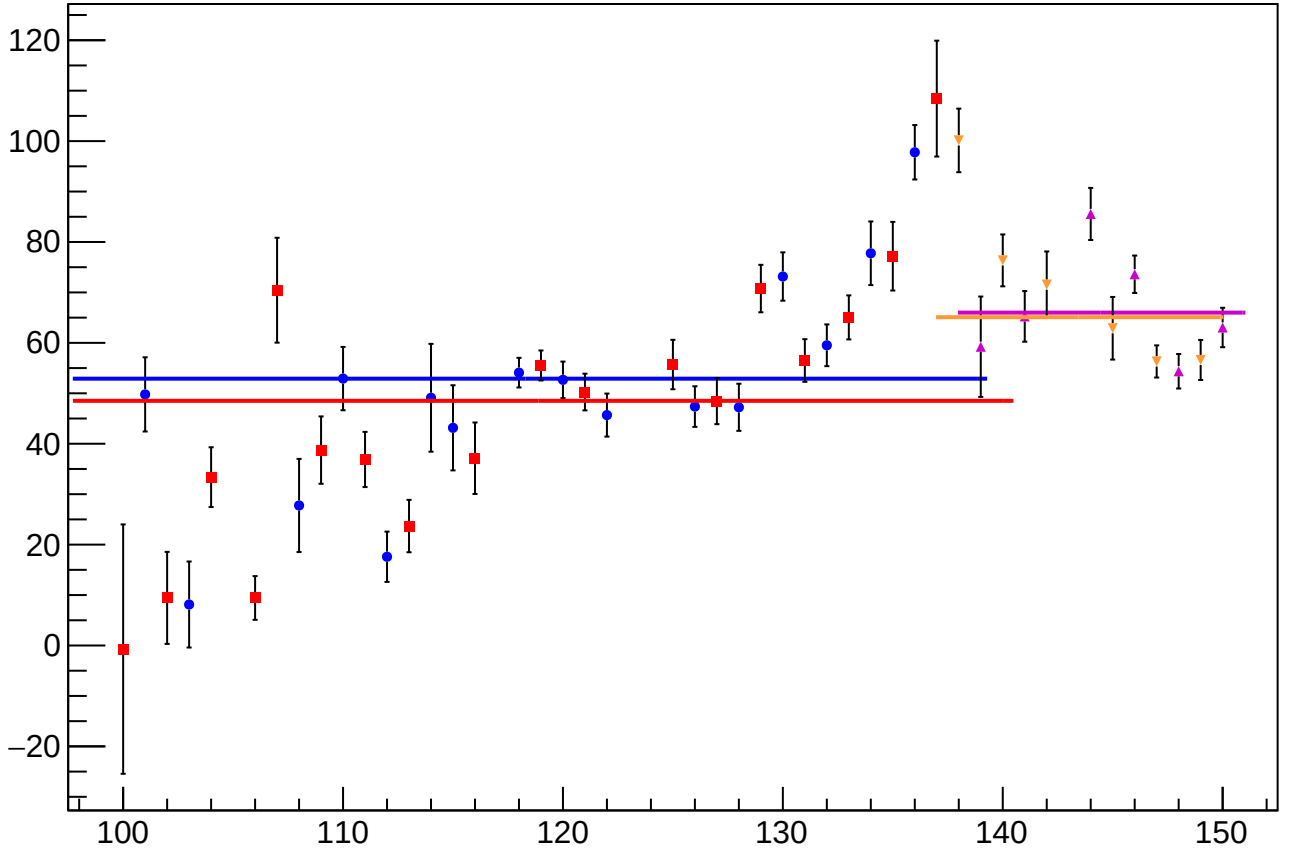
Right: 191.037+/-0.836 $\chi^2$/NDF: 8986.6/33

In: 217.485+/-1.069 $\chi^2$/NDF:3156.1/21

Out: 196.400+/-1.024 $\chi^2$/NDF:7542.7/23

All: 206.492+/-0.739 $\chi^2$/NDF: 10901.8/45

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 52.899+/-1.242 $\chi^2$/NDF: 198.3/15

Left Out: 65.089+/-1.911 $\chi^2$/NDF:48.9/5

Right Out: 48.510+/-1.214 $\chi^2$/NDF: 240.0/17

Left In: 65.998+/-1.793 $\chi^2$/NDF:31.2/5

Left: 65.572+/-1.308 $\chi^2$/NDF: 80.2/11

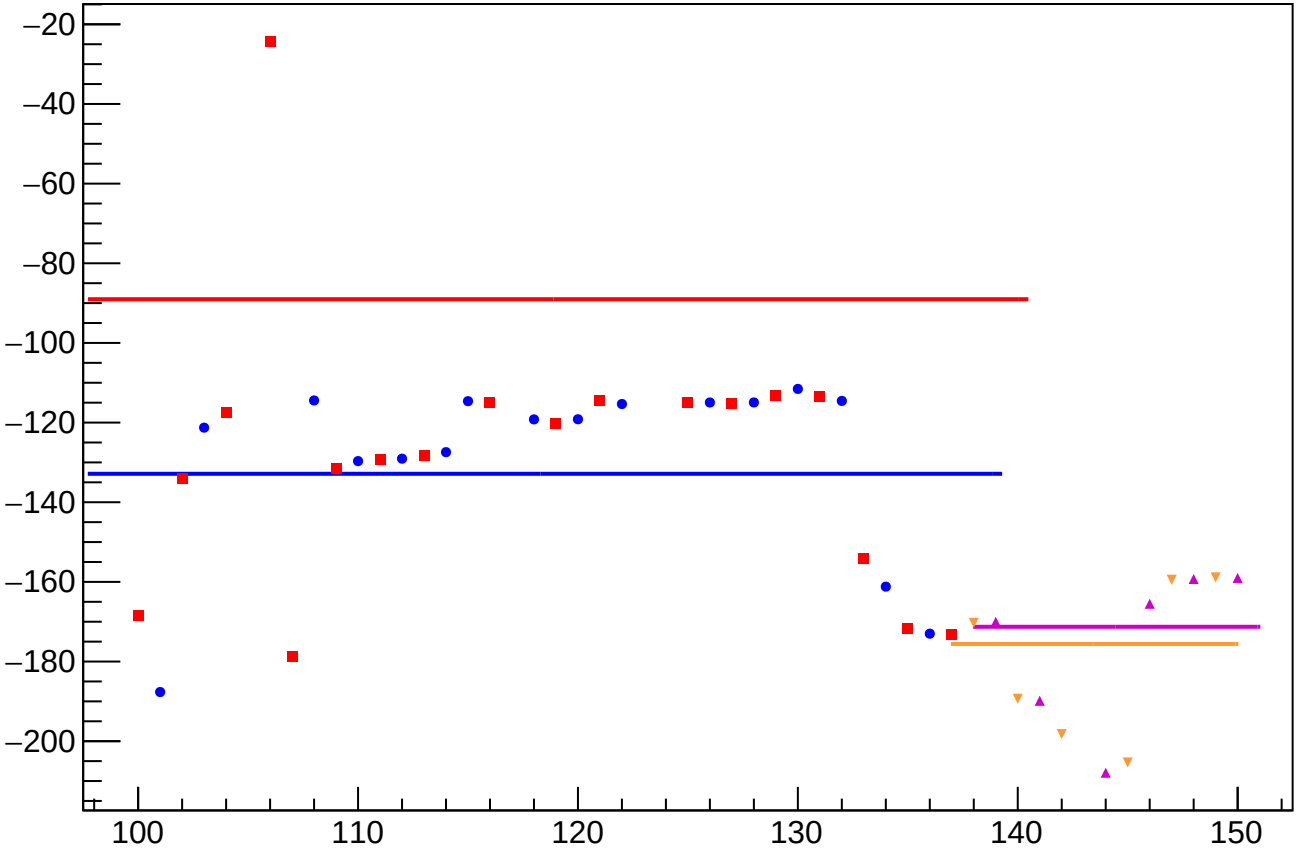
Right: 50.656+/-0.868 $\chi^2$/NDF: 444.7/33

In: 57.144+/-1.021 $\chi^2$/NDF:265.5/21

Out: 53.279+/-1.025 $\chi^2$/NDF:342.6/23

All: 55.219+/-0.723 $\chi^2$/NDF: 615.2/45

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -132.856+/-0.081 $\chi^2$/NDF: 93497.9/15

Left Out: -175.585+/-0.097 $\chi^2$/NDF:33645.7/5

Right Out: -89.020+/-0.064 $\chi^2$/NDF: 728110.1/17

Left In: -171.271+/-0.089 $\chi^2$/NDF:32060.6/5

Left: -173.234+/-0.066 $\chi^2$/NDF: 66777.7/11

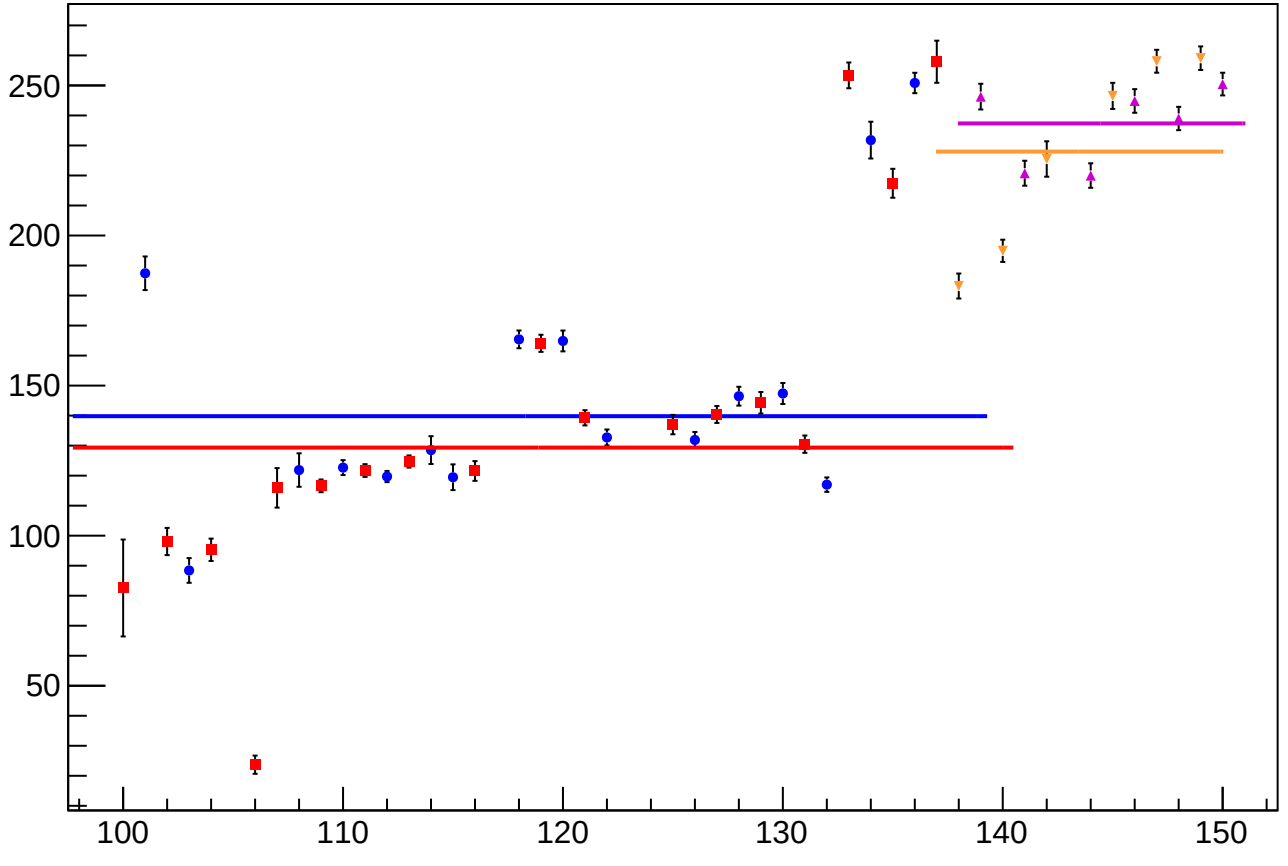
Right: -105.832+/-0.050 $\chi^2$/NDF: 1000593.4/33

In: -150.363+/-0.060 $\chi^2$/NDF:227175.0/21

Out: -115.256+/-0.054 $\chi^2$/NDF:1313332.1/23

All: -130.823+/-0.040 $\chi^2$/NDF: 1730948.5/45

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 139.810+/-0.785 $\chi^2$/NDF: 1964.9/15

Left Out: 227.968+/-1.700 $\chi^2$/NDF:339.3/5

Right Out: 129.344+/-0.734 $\chi^2$/NDF: 3123.5/17

Left In: 237.339+/-1.636 $\chi^2$/NDF:54.3/5

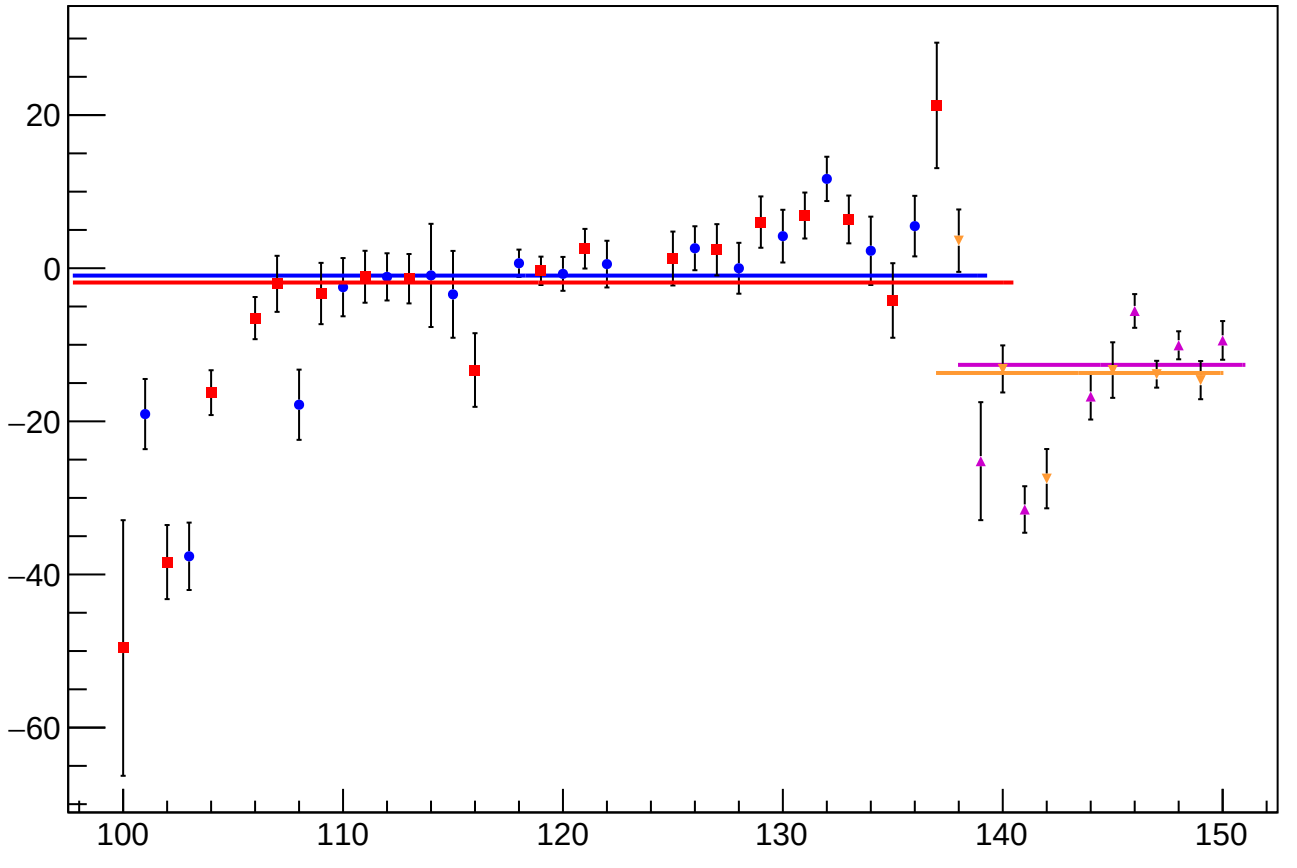
Left: 232.832+/-1.179 $\chi^2$/NDF: 409.3/11

Right: 134.231+/-0.536 $\chi^2$/NDF: 5183.3/33

In: 158.042+/-0.707 $\chi^2$/NDF:4907.9/21

Out: 144.855+/-0.674 $\chi^2$/NDF:6300.2/23

All: 151.130+/-0.488 $\chi^2$/NDF: 11390.3/45




Right In: -0.963+/-0.808 $\chi^2$/NDF: 126.1/15

Left Out: -13.682+/-1.121 $\chi^2$/NDF:30.9/5

Right Out: -1.869+/-0.784 $\chi^2$/NDF: 133.2/17

Left In: -12.622+/-1.056 $\chi^2$/NDF:57.0/5

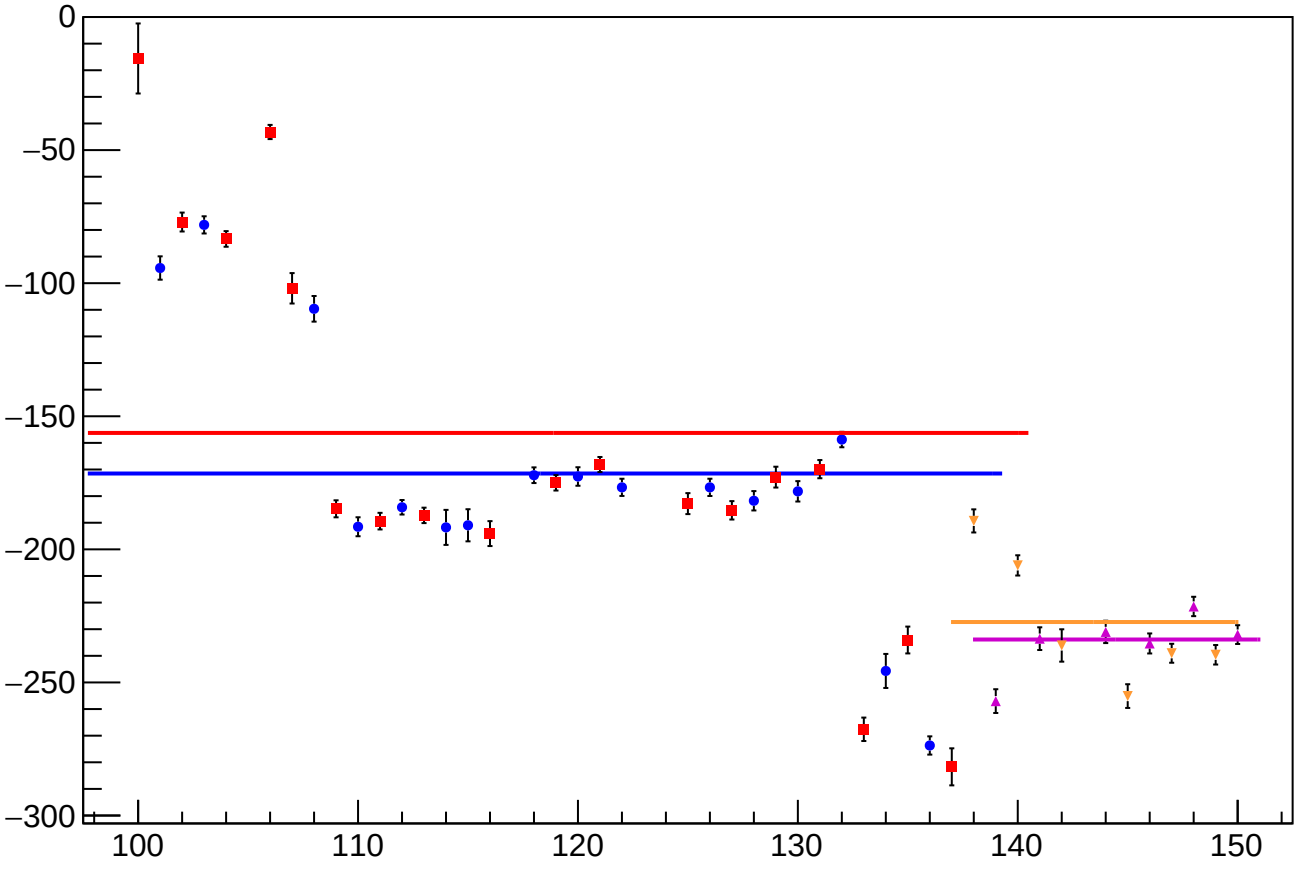
Left: -13.121+/-0.769 $\chi^2$/NDF: 88.3/11

Right: -1.430+/-0.563 $\chi^2$/NDF: 259.9/33

In: -5.271+/-0.642 $\chi^2$/NDF:259.9/21

Out: -5.745+/-0.642 $\chi^2$/NDF:238.6/23

All: -5.508+/-0.454 $\chi^2$/NDF: 498.9/45




Right In: -171.506+/-0.907 $\chi^2$/NDF: 2442.8/15

Left Out: -227.299+/-1.683 $\chi^2$/NDF:171.1/5

Right Out: -156.260+/-0.847 $\chi^2$/NDF: 4904.3/17

Left In: -233.872+/-1.604 $\chi^2$/NDF:39.4/5

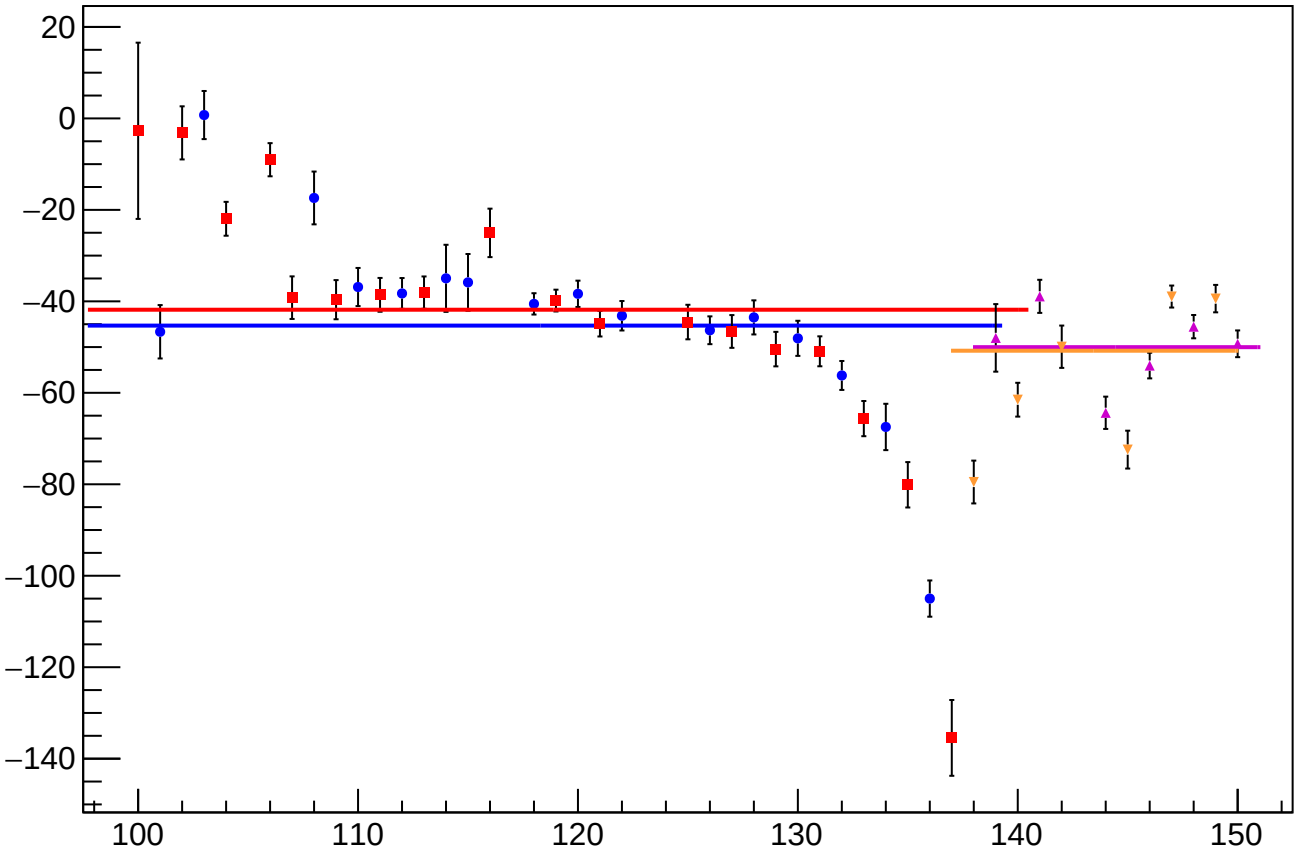
Left: -230.742+/-1.161 $\chi^2$/NDF: 218.5/11

Right: -163.367+/-0.619 $\chi^2$/NDF: 7498.1/33

In: -186.605+/-0.789 $\chi^2$/NDF:3627.4/21

Out: -170.626+/-0.757 $\chi^2$/NDF:6496.8/23

All: -178.278+/-0.546 $\chi^2$/NDF: 10337.7/45




Right In: -45.304+/-0.938 $\chi^2$/NDF: 382.0/15

Left Out: -50.795+/-1.403 $\chi^2$/NDF:112.0/5

Right Out: -41.832+/-0.909 $\chi^2$/NDF: 414.2/17

Left In: -50.018+/-1.321 $\chi^2$/NDF:31.3/5

Left: -50.383+/-0.962 $\chi^2$/NDF: 143.4/11

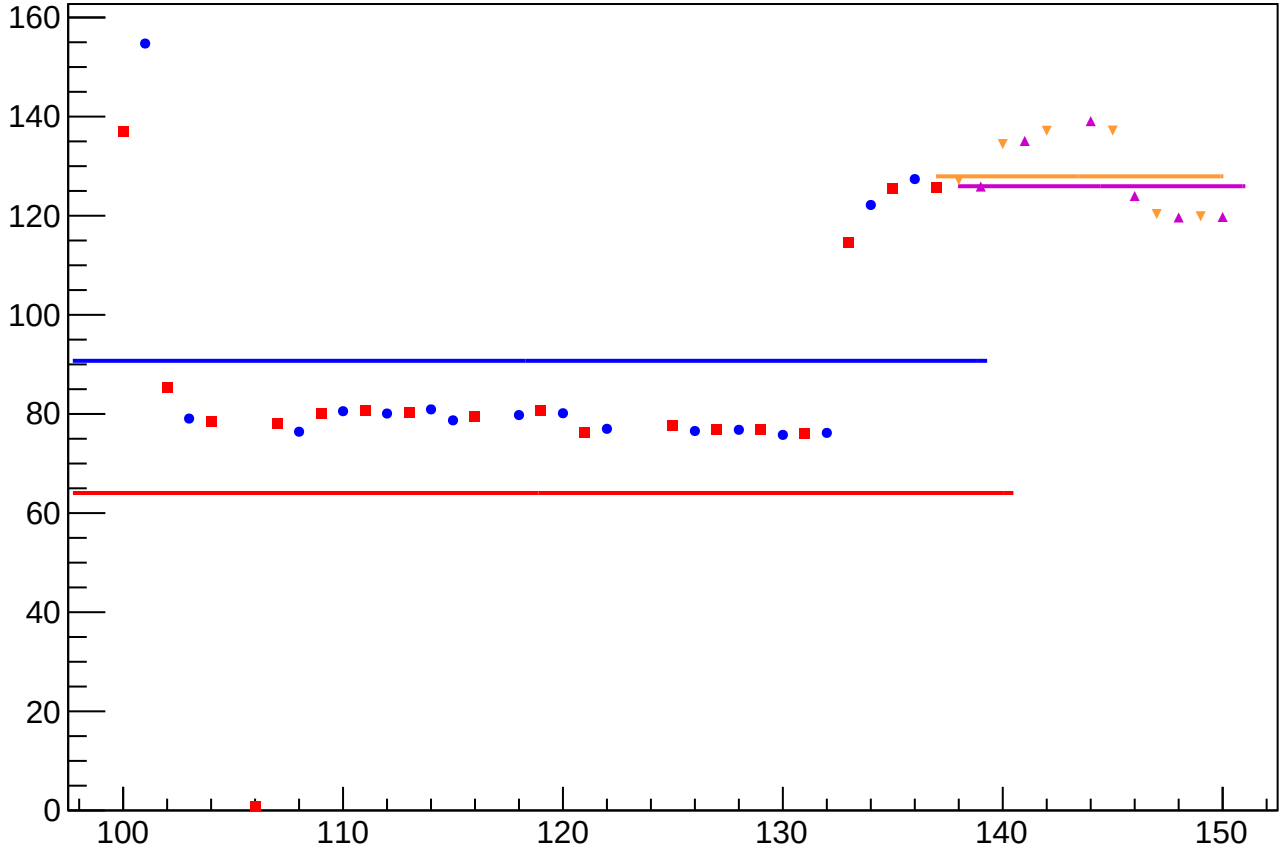
Right: -43.515+/-0.653 $\chi^2$/NDF: 803.4/33

In: -46.884+/-0.765 $\chi^2$/NDF:421.8/21

Out: -44.483+/-0.763 $\chi^2$/NDF:555.0/23

All: -45.681+/-0.540 $\chi^2$/NDF: 981.7/45

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 90.726+/-0.058 $\chi^2$/NDF: 161153.0/15

Left Out: 127.946+/-0.071 $\chi^2$/NDF:10621.6/5

Right Out: 64.059+/-0.049 $\chi^2$/NDF: 660935.1/17

Left In: 125.951+/-0.065 $\chi^2$/NDF:11464.4/5

Left: 126.865+/-0.048 $\chi^2$/NDF: 22512.2/11

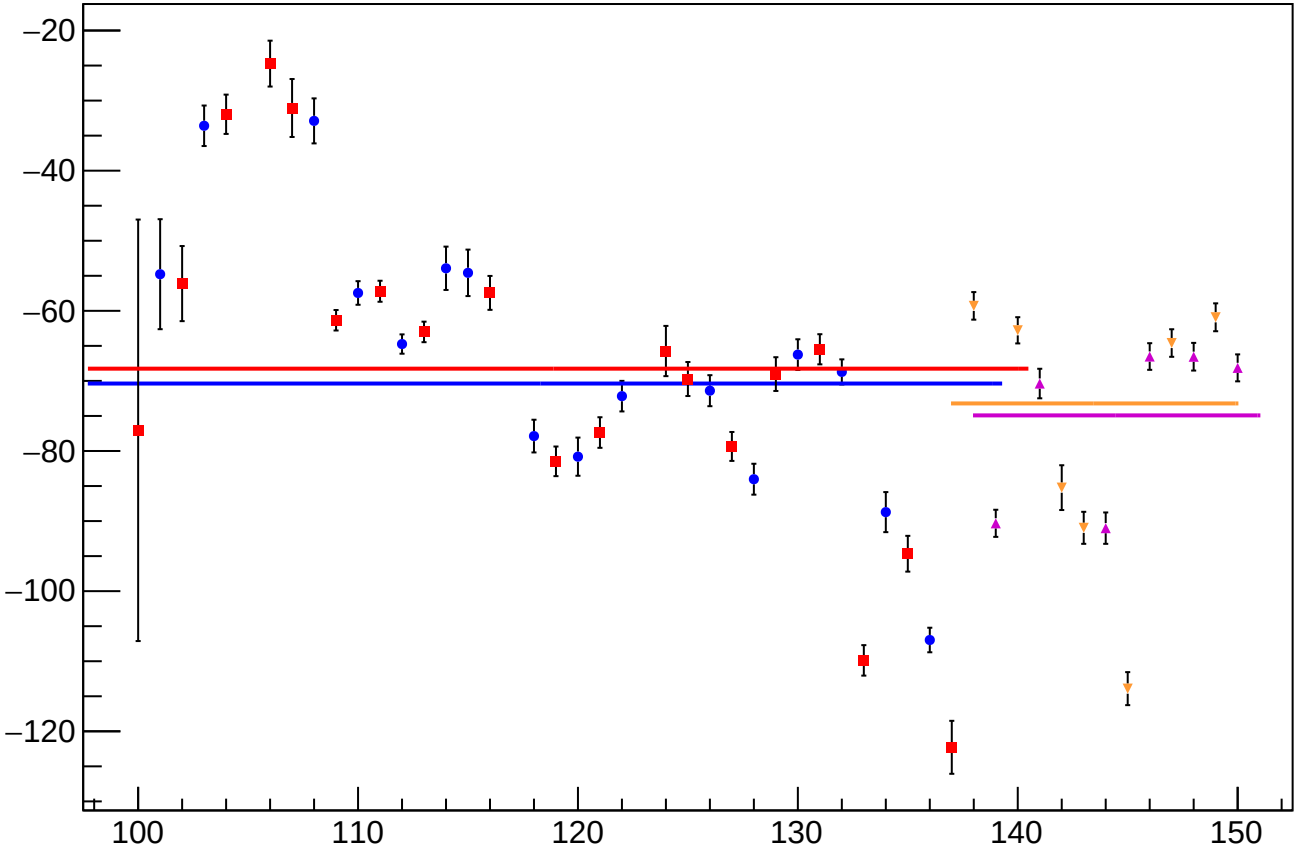
Right: 75.136+/-0.038 $\chi^2$/NDF: 943639.1/33

In: 106.366+/-0.044 $\chi^2$/NDF:333691.9/21

Out: 84.783+/-0.041 $\chi^2$/NDF:1216398.8/23

All: 94.783+/-0.030 $\chi^2$/NDF: 1681549.1/45

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -70.374+/-0.558 $\chi^2$/NDF: 974.9/15

Left Out: -73.214+/-0.810 $\chi^2$/NDF:511.6/6

Right Out: -68.252+/-0.527 $\chi^2$/NDF: 1306.0/18

Left In: -74.920+/-0.818 $\chi^2$/NDF:169.6/5

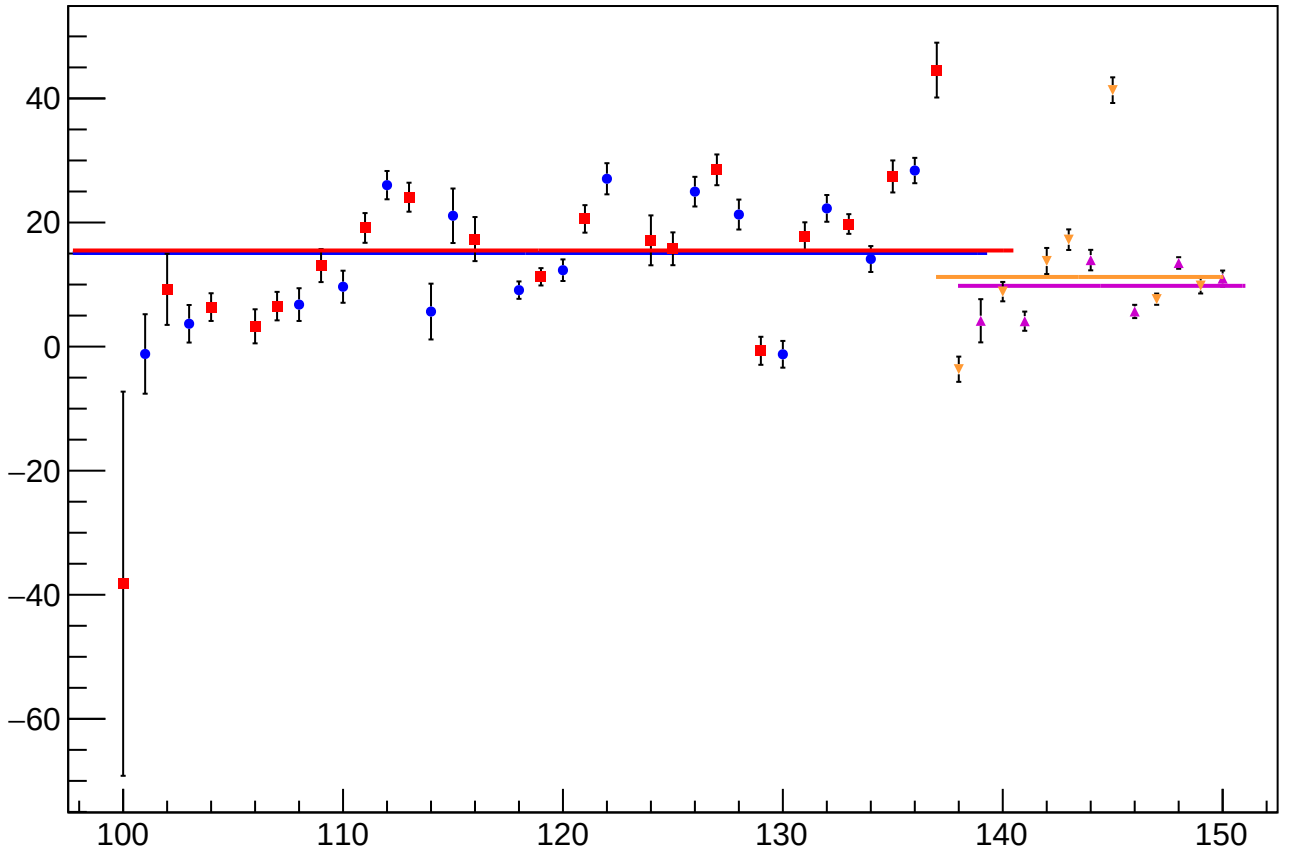
Left: -74.058+/-0.575 $\chi^2$/NDF: 683.4/12

Right: -69.252+/-0.383 $\chi^2$/NDF: 2288.5/34

In: -71.817+/-0.461 $\chi^2$/NDF:1165.6/21

Out: -69.727+/-0.441 $\chi^2$/NDF:1843.9/25

All: -70.727+/-0.319 $\chi^2$/NDF: 3020.2/47




Right In: 15.092+/-0.581 $\chi^2$/NDF: 242.4/15

Left Out: 11.226+/-0.549 $\chi^2$/NDF:299.0/6

Right Out: 15.491+/-0.558 $\chi^2$/NDF: 239.3/18

Left In: 9.793+/-0.535 $\chi^2$/NDF:53.8/5

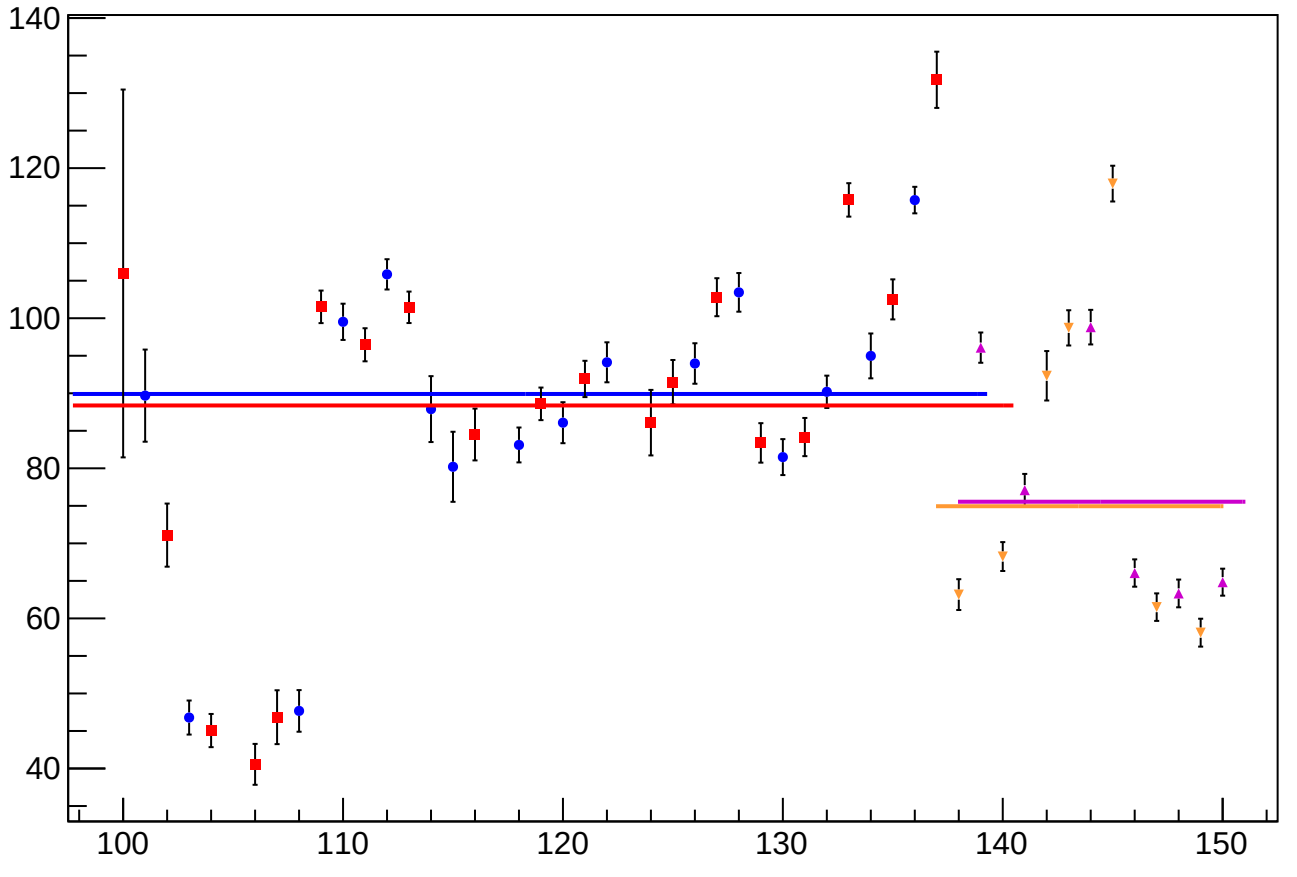
Left: 10.491+/-0.383 $\chi^2$/NDF: 356.3/12

Right: 15.300+/-0.402 $\chi^2$/NDF: 482.0/34

In: 12.227+/-0.394 $\chi^2$/NDF:341.3/21

Out: 13.325+/-0.392 $\chi^2$/NDF:567.9/25

All: 12.779+/-0.278 $\chi^2$/NDF: 913.1/47




Right In: 89.907+/-0.641 $\chi^2$/NDF: 947.7/15

Left Out: 74.949+/-0.805 $\chi^2$/NDF:636.5/6

Right Out: 88.375+/-0.617 $\chi^2$/NDF: 1288.9/18

Left In: 75.549+/-0.803 $\chi^2$/NDF:312.5/5

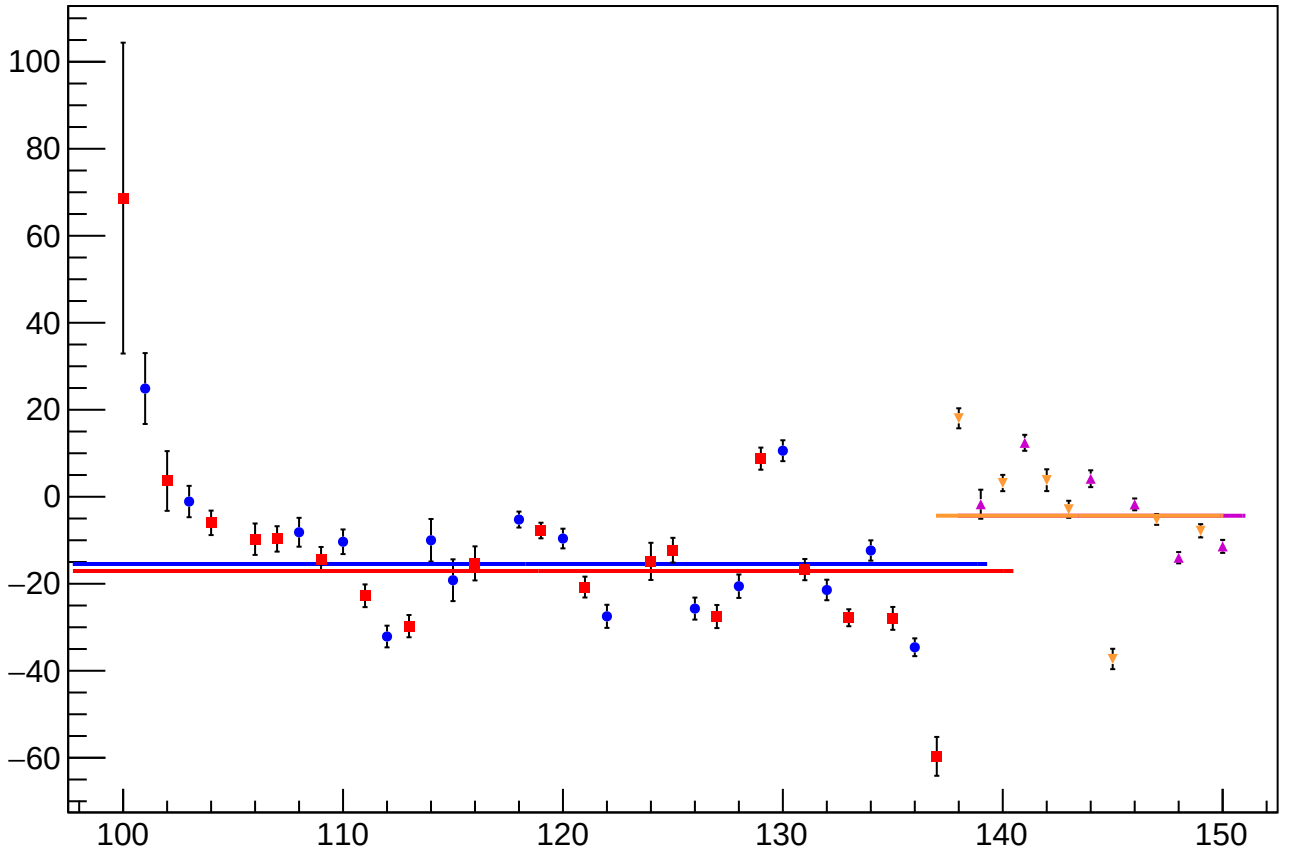
Left: 75.249+/-0.568 $\chi^2$/NDF: 949.3/12

Right: 89.113+/-0.445 $\chi^2$/NDF: 2239.5/34

In: 84.321+/-0.501 $\chi^2$/NDF:1455.6/21

Out: 83.402+/-0.490 $\chi^2$/NDF:2100.5/25

All: 83.851+/-0.350 $\chi^2$/NDF: 3557.9/47




Right In: -15.454+/-0.665 $\chi^2$/NDF: 386.5/15

Left Out: -4.354+/-0.681 $\chi^2$/NDF:325.4/6

Right Out: -17.066+/-0.644 $\chi^2$/NDF: 361.0/18

Left In: -4.361+/-0.669 $\chi^2$/NDF:184.5/5

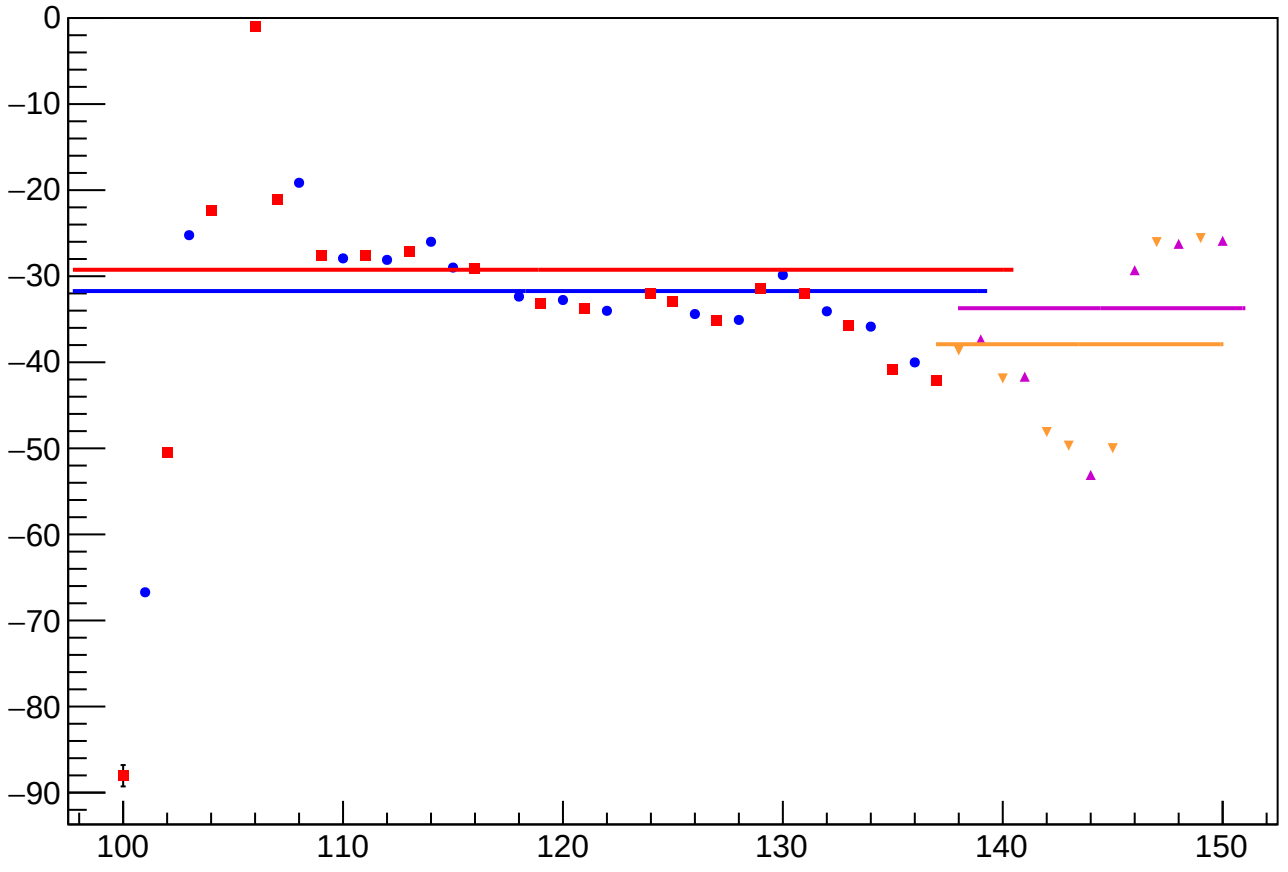
Left: -4.358+/-0.477 $\chi^2$/NDF: 509.9/12

Right: -16.287+/-0.463 $\chi^2$/NDF: 750.5/34

In: -9.936+/-0.472 $\chi^2$/NDF:709.2/21

Out: -11.070+/-0.468 $\chi^2$/NDF:870.4/25

All: -10.508+/-0.332 $\chi^2$/NDF: 1582.5/47




Right In: -31.725+/-0.039 $\chi^2$/NDF: 39636.6/15

Left Out: -37.903+/-0.034 $\chi^2$/NDF:85213.4/6

Right Out: -29.250+/-0.038 $\chi^2$/NDF: 95235.9/18

Left In: -33.717+/-0.033 $\chi^2$/NDF:70630.5/5

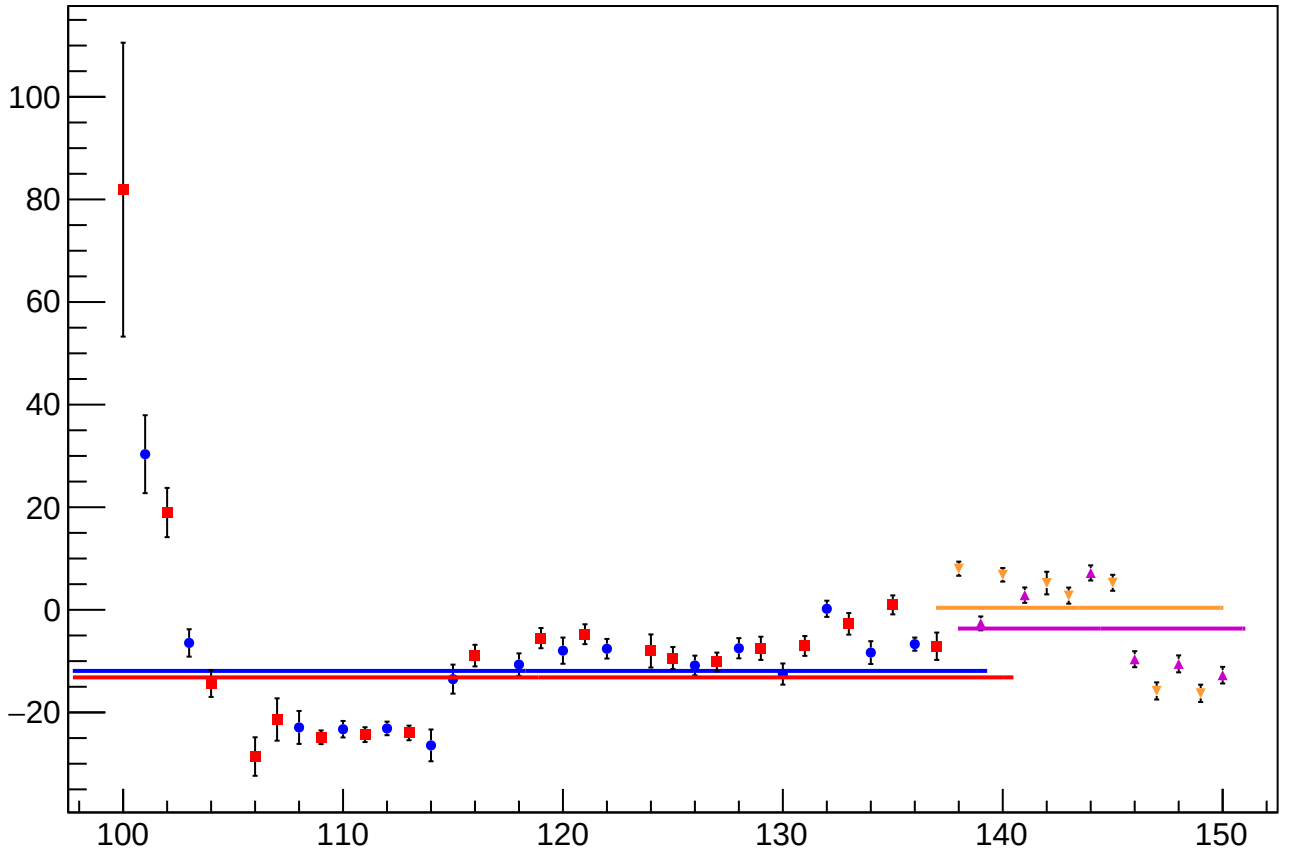
Left: -35.730+/-0.023 $\chi^2$/NDF: 163815.3/12

Right: -30.485+/-0.027 $\chi^2$/NDF: 136941.1/34

In: -32.888+/-0.025 $\chi^2$/NDF:111830.2/21

Out: -34.130+/-0.025 $\chi^2$/NDF:209052.4/25

All: -33.496+/-0.018 $\chi^2$/NDF: 322106.0/47




Right In: -11.906+/-0.497 $\chi^2$/NDF: 282.1/15

Left Out: 0.394+/-0.595 $\chi^2$/NDF:262.4/6

Right Out: -13.169+/-0.480 $\chi^2$/NDF: 421.5/18

Left In: -3.651+/-0.619 $\chi^2$/NDF:136.9/5

Left: -1.546+/-0.429 $\chi^2$/NDF: 421.4/12

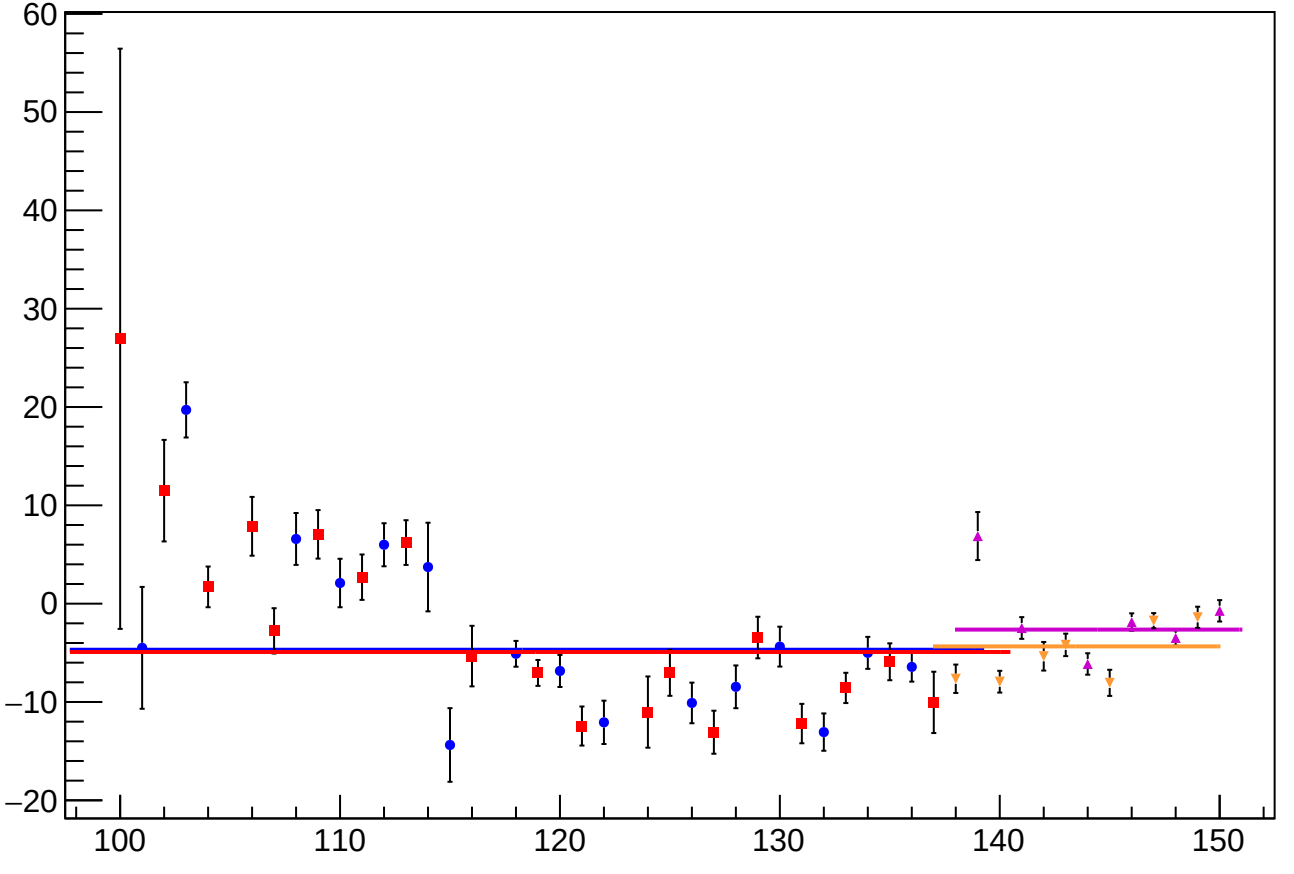
Right: -12.559+/-0.345 $\chi^2$/NDF: 706.9/34

In: -8.675+/-0.387 $\chi^2$/NDF:527.0/21

Out: -7.817+/-0.374 $\chi^2$/NDF:998.8/25

All: -8.230+/-0.269 $\chi^2$/NDF: 1528.4/47

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.686+/-0.517 $\chi^2$/NDF: 179.0/15

Left Out: -4.347+/-0.421 $\chi^2$/NDF:43.1/6

Right Out: -4.913+/-0.513 $\chi^2$/NDF: 155.9/18

Left In: -2.638+/-0.423 $\chi^2$/NDF:30.5/5

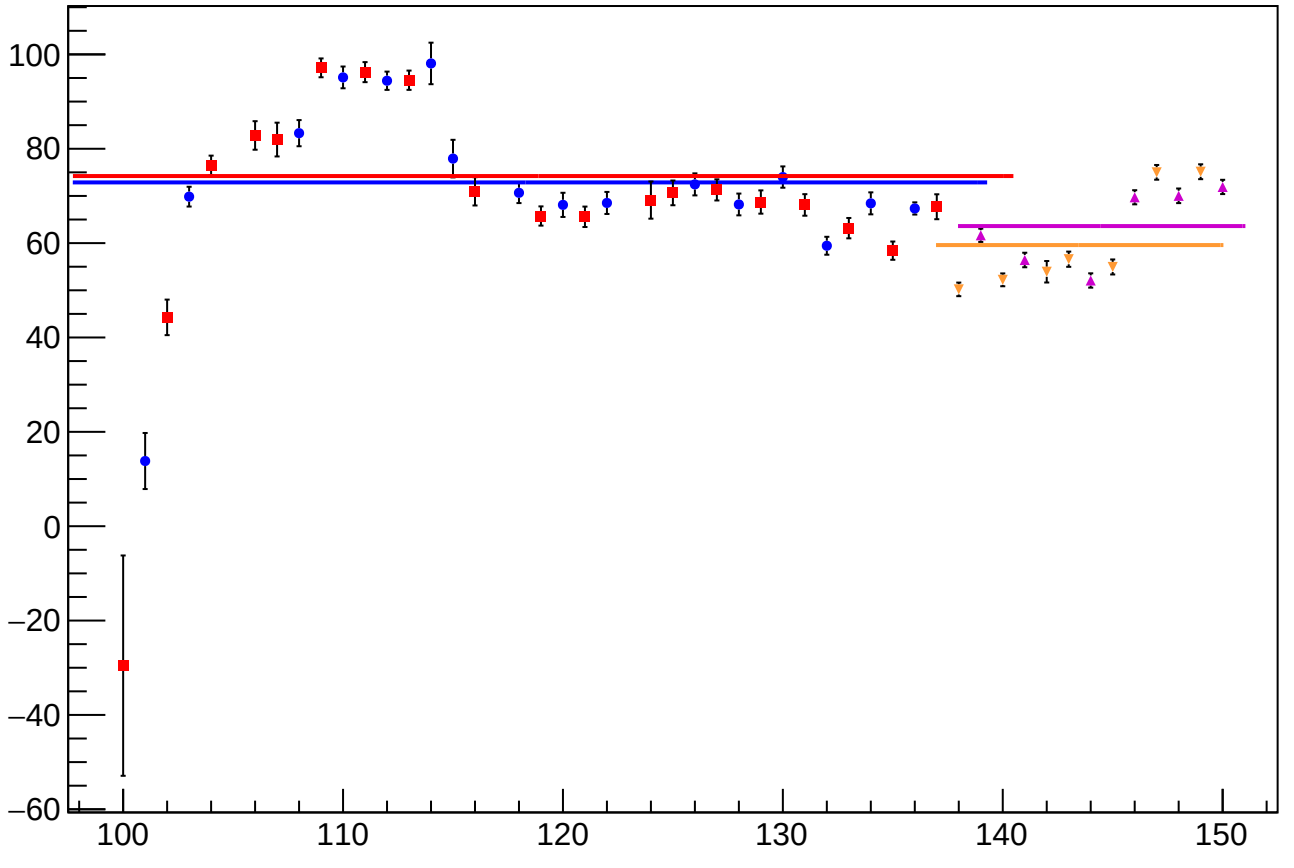
Left: -3.497+/-0.298 $\chi^2$/NDF: 81.7/12

Right: -4.801+/-0.364 $\chi^2$/NDF: 335.0/34

In: -3.460+/-0.327 $\chi^2$/NDF:218.9/21

Out: -4.575+/-0.325 $\chi^2$/NDF:199.7/25

All: -4.021+/-0.231 $\chi^2$/NDF: 424.4/47




Right In: 72.866+/-0.565 $\chi^2$/NDF: 450.7/15

Left Out: 59.587+/-0.597 $\chi^2$/NDF:284.6/6

Right Out: 74.217+/-0.562 $\chi^2$/NDF: 586.2/18

Left In: 63.614+/-0.613 $\chi^2$/NDF:145.2/5

Left: 61.546+/-0.428 $\chi^2$/NDF: 452.0/12

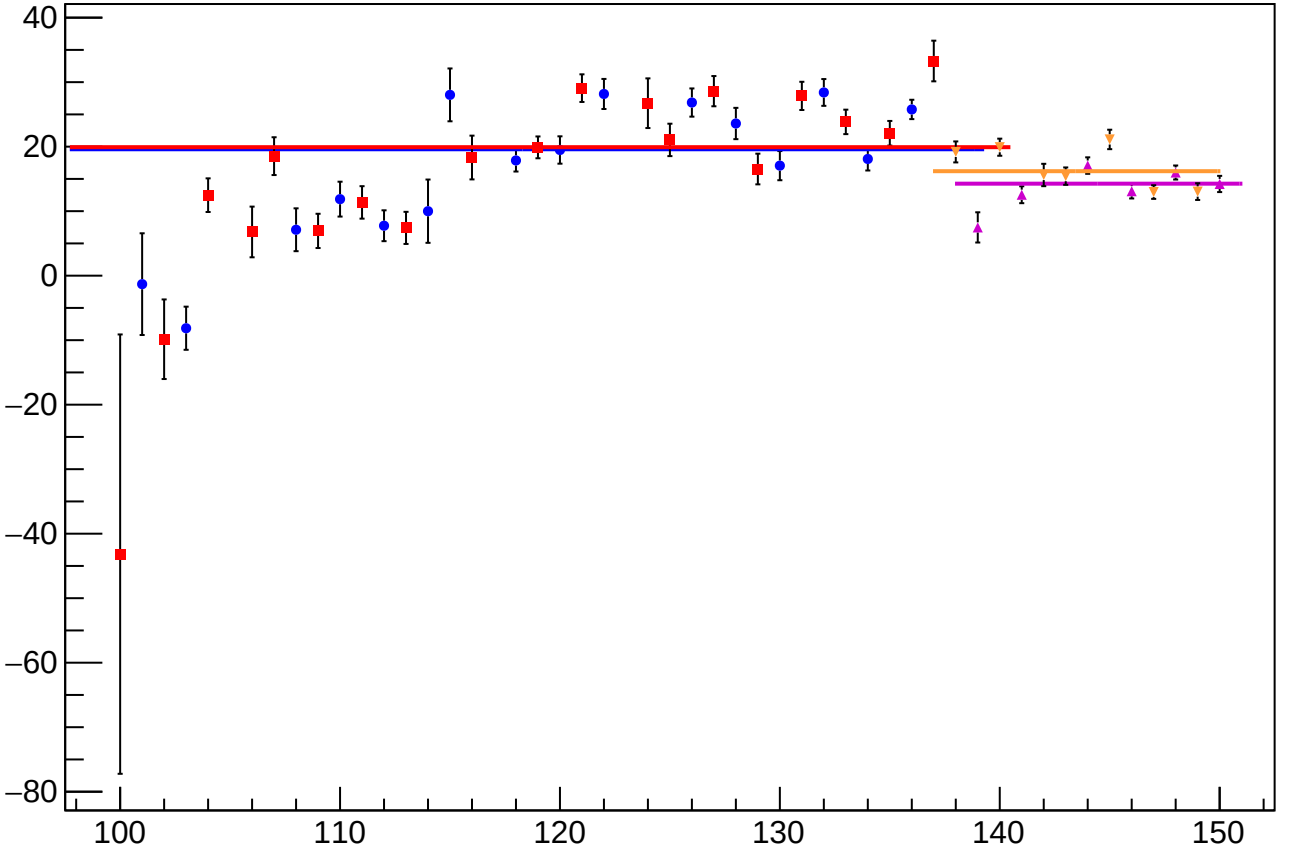
Right: 73.545+/-0.399 $\chi^2$/NDF: 1039.8/34

In: 68.616+/-0.416 $\chi^2$/NDF:718.9/21

Out: 67.339+/-0.409 $\chi^2$/NDF:1189.1/25

All: 67.968+/-0.292 $\chi^2$/NDF: 1912.9/47

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 19.598+/-0.585 $\chi^2$/NDF: 196.0/15

Left Out: 16.197+/-0.515 $\chi^2$/NDF:37.7/6

Right Out: 19.919+/-0.585 $\chi^2$/NDF: 181.3/18

Left In: 14.262+/-0.524 $\chi^2$/NDF:18.5/5

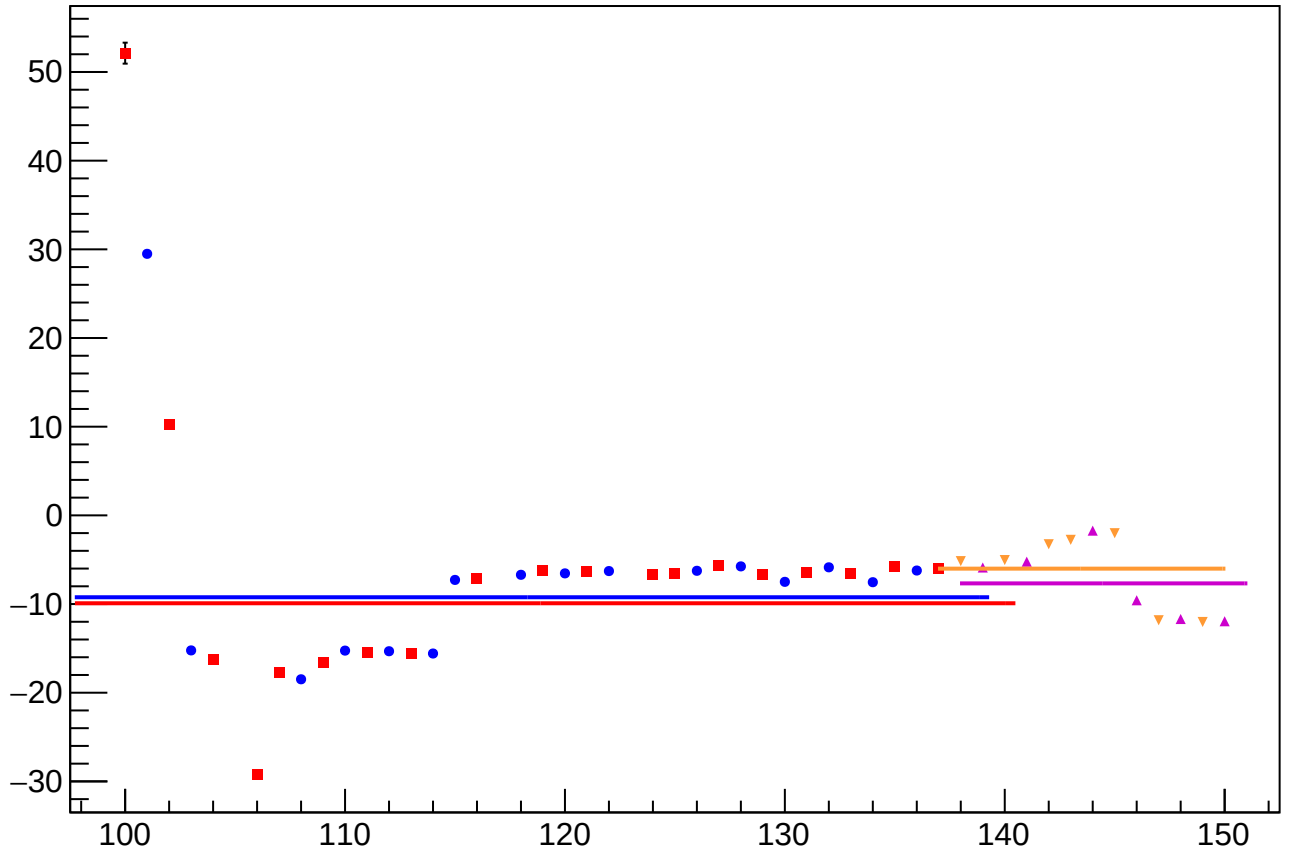
Left: 15.245+/-0.367 $\chi^2$/NDF: 63.2/12

Right: 19.759+/-0.414 $\chi^2$/NDF: 377.5/34

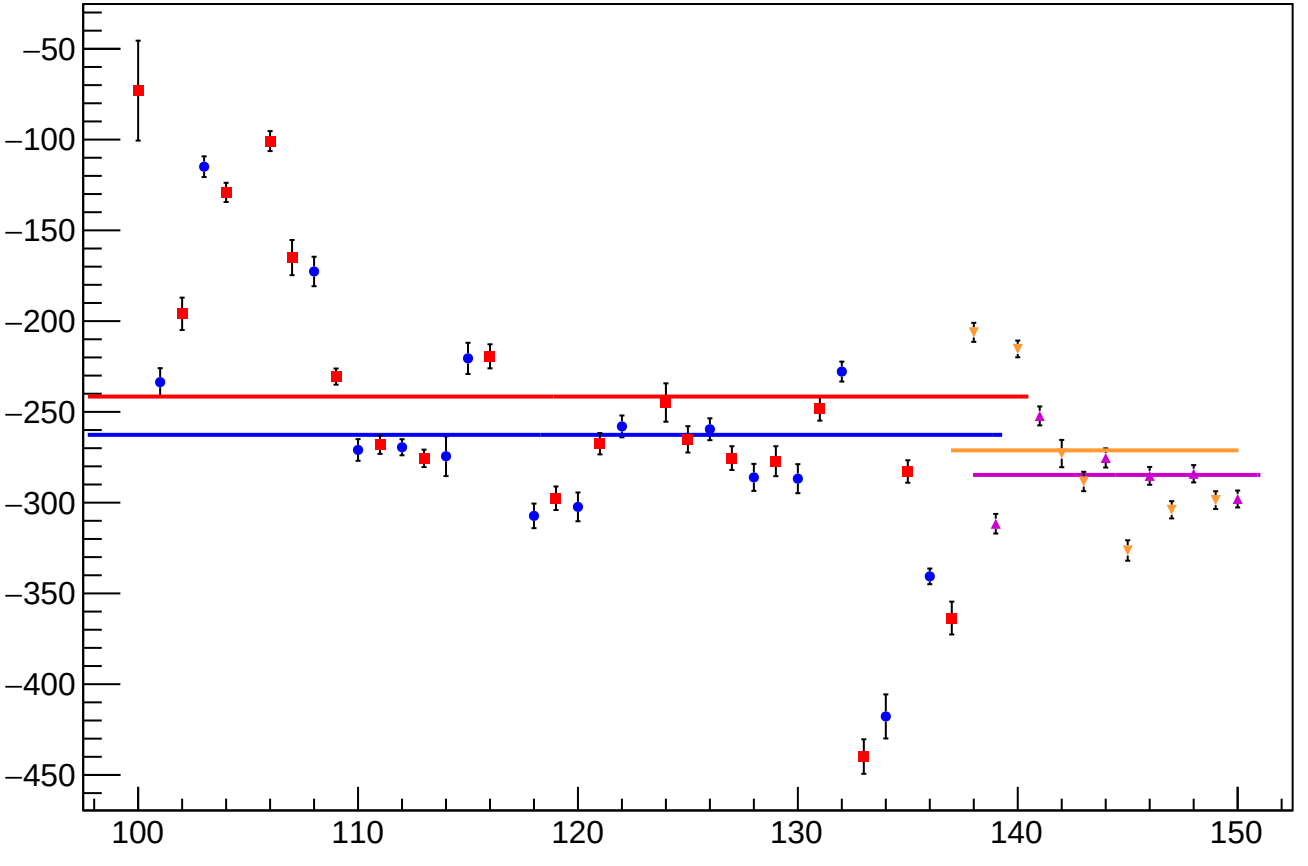
In: 16.635+/-0.390 $\chi^2$/NDF:260.7/21

Out: 17.822+/-0.387 $\chi^2$/NDF:241.9/25

All: 17.234+/-0.275 $\chi^2$/NDF: 507.2/47


reg_asym_usr_atr1_dd_diff_bpm12X_slope vs Slug, Sign Corrected
50
40
30
20
10
0
−10
−20
−30
100
110
120
130
140
150
Right In: -9.235+/-0.033 χ²/NDF: 31159.3/15
Left Out: -6.009+/-0.025 χ²/NDF:23063.5/6
Right Out: -9.913+/-0.034 χ²/NDF: 53863.3/18
Left In: -7.671+/-0.025 χ²/NDF:20316.1/5
Left: -6.843+/-0.018 χ²/NDF: 45617.5/12
Right: -9.558+/-0.024 χ²/NDF: 85225.4/34
In: -8.238+/-0.020 χ²/NDF:52920.5/21
Out: -7.349+/-0.020 χ²/NDF:85370.5/25
All: -7.802+/-0.014 χ²/NDF: 139282.7/47

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -262.643+/-1.614 $\chi^2$/NDF: 1454.3/15

Left Out: -271.186+/-1.983 $\chi^2$/NDF:485.8/6

Right Out: -241.548+/-1.506 $\chi^2$/NDF: 2138.6/18

Left In: -284.725+/-2.047 $\chi^2$/NDF:74.8/5

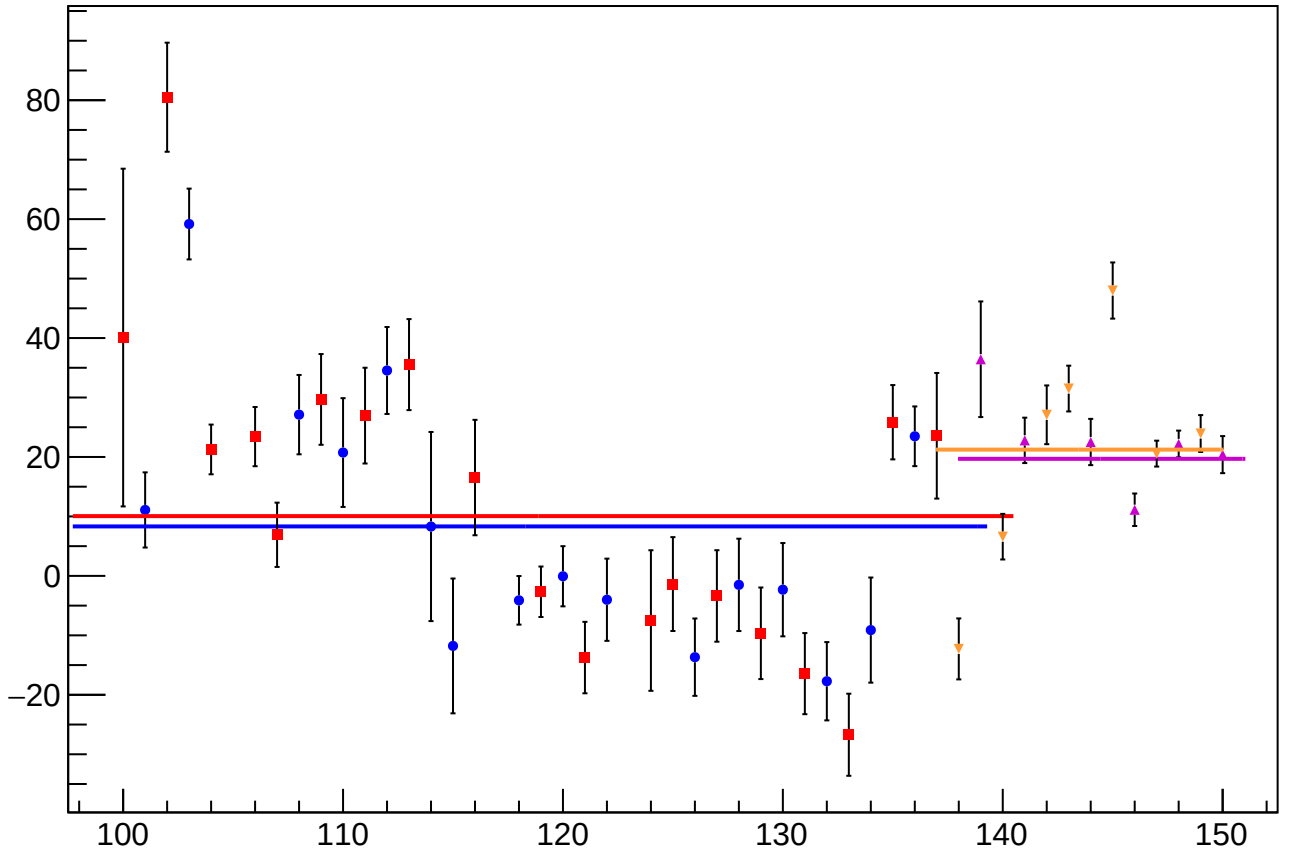
Left: -277.740+/-1.425 $\chi^2$/NDF: 583.1/12

Right: -251.368+/-1.101 $\chi^2$/NDF: 3684.2/34

In: -271.105+/-1.267 $\chi^2$/NDF:1600.8/21

Out: -252.389+/-1.199 $\chi^2$/NDF:2766.0/25

All: -261.231+/-0.871 $\chi^2$/NDF: 4481.8/47




Right In: 8.320+/-1.644 $\chi^2$/NDF: 157.6/15

Left Out: 21.238+/-1.320 $\chi^2$/NDF:98.8/6

Right Out: 10.052+/-1.539 $\chi^2$/NDF: 187.4/18

Left In: 19.687+/-1.313 $\chi^2$/NDF:15.3/5

Left: 20.459+/-0.931 $\chi^2$/NDF: 114.7/12

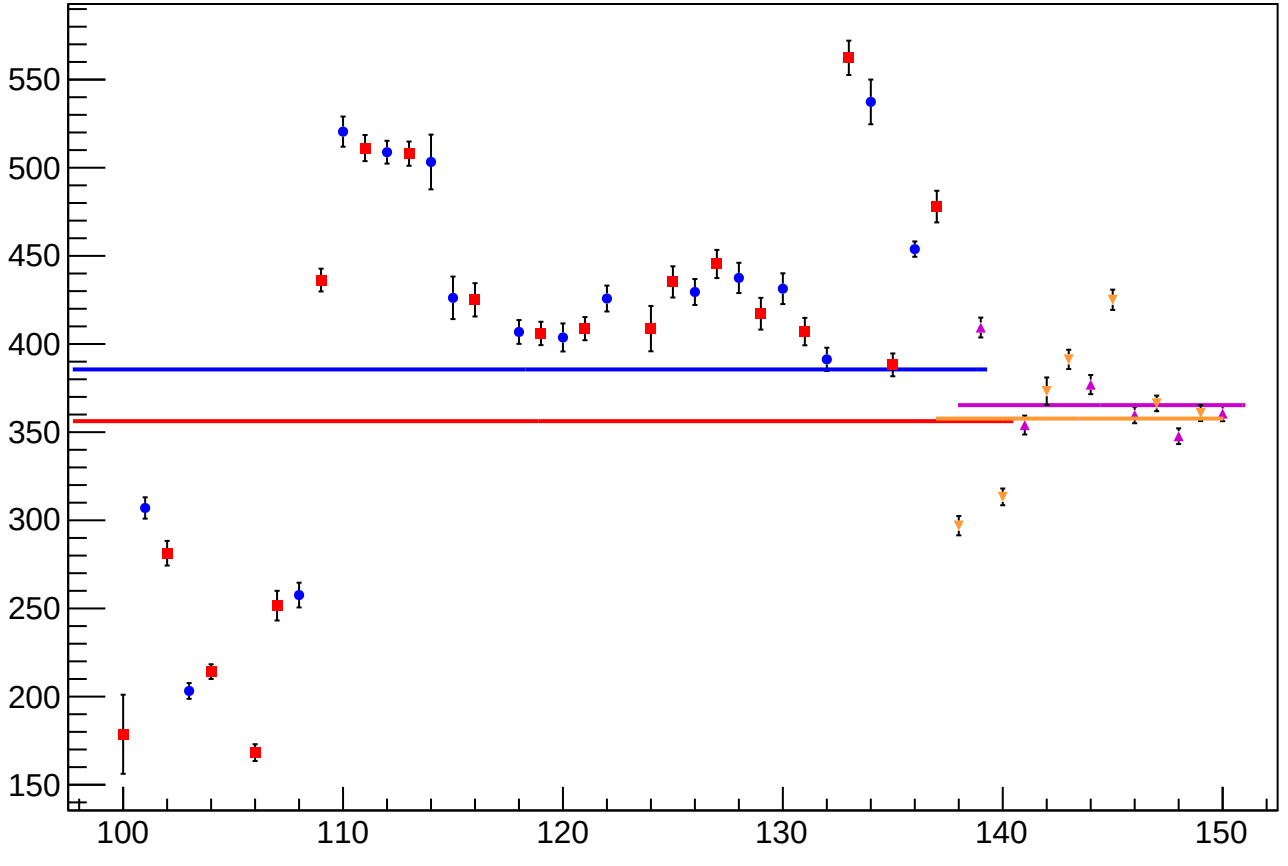
Right: 9.243+/-1.123 $\chi^2$/NDF: 345.7/34

In: 15.261+/-1.026 $\chi^2$/NDF:202.1/21

Out: 16.498+/-1.002 $\chi^2$/NDF:316.6/25

All: 15.894+/-0.717 $\chi^2$/NDF: 519.5/47

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 385.590+/-1.742 $\chi^2$/NDF: 3373.1/15

Left Out: 357.712+/-1.972 $\chi^2$/NDF:393.7/6

Right Out: 356.245+/-1.647 $\chi^2$/NDF: 5270.3/18

Left In: 365.337+/-2.005 $\chi^2$/NDF:88.4/5

Left: 361.461+/-1.406 $\chi^2$/NDF: 489.4/12

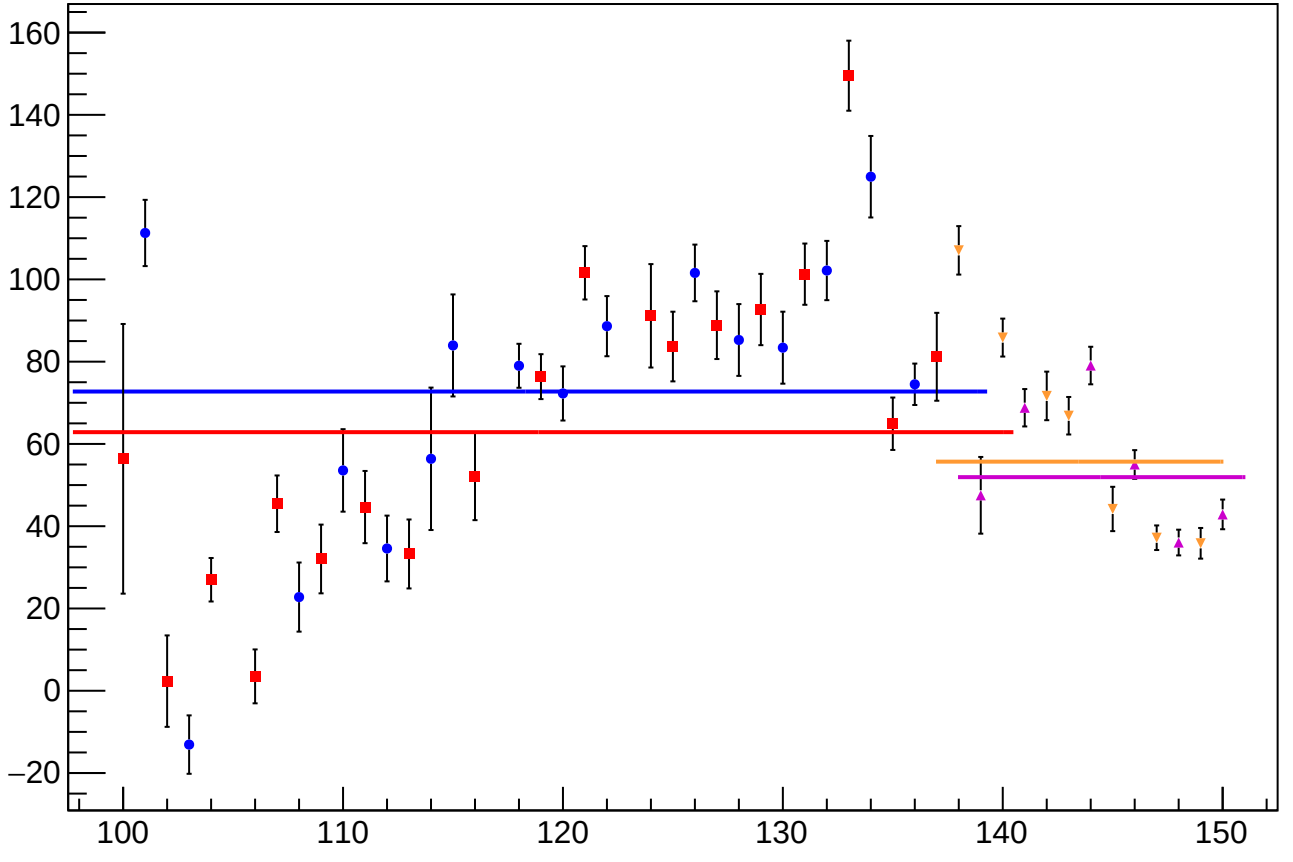
Right: 370.089+/-1.197 $\chi^2$/NDF: 8793.2/34

In: 376.875+/-1.315 $\chi^2$/NDF:3519.6/21

Out: 356.848+/-1.264 $\chi^2$/NDF:5664.3/25

All: 366.464+/-0.911 $\chi^2$/NDF: 9304.5/47

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 72.740+/-1.897 $\chi^2$/NDF: 304.3/15

Left Out: 55.696+/-1.642 $\chi^2$/NDF:203.3/6

Right Out: 62.863+/-1.795 $\chi^2$/NDF: 403.6/18

Left In: 51.928+/-1.645 $\chi^2$/NDF:82.3/5

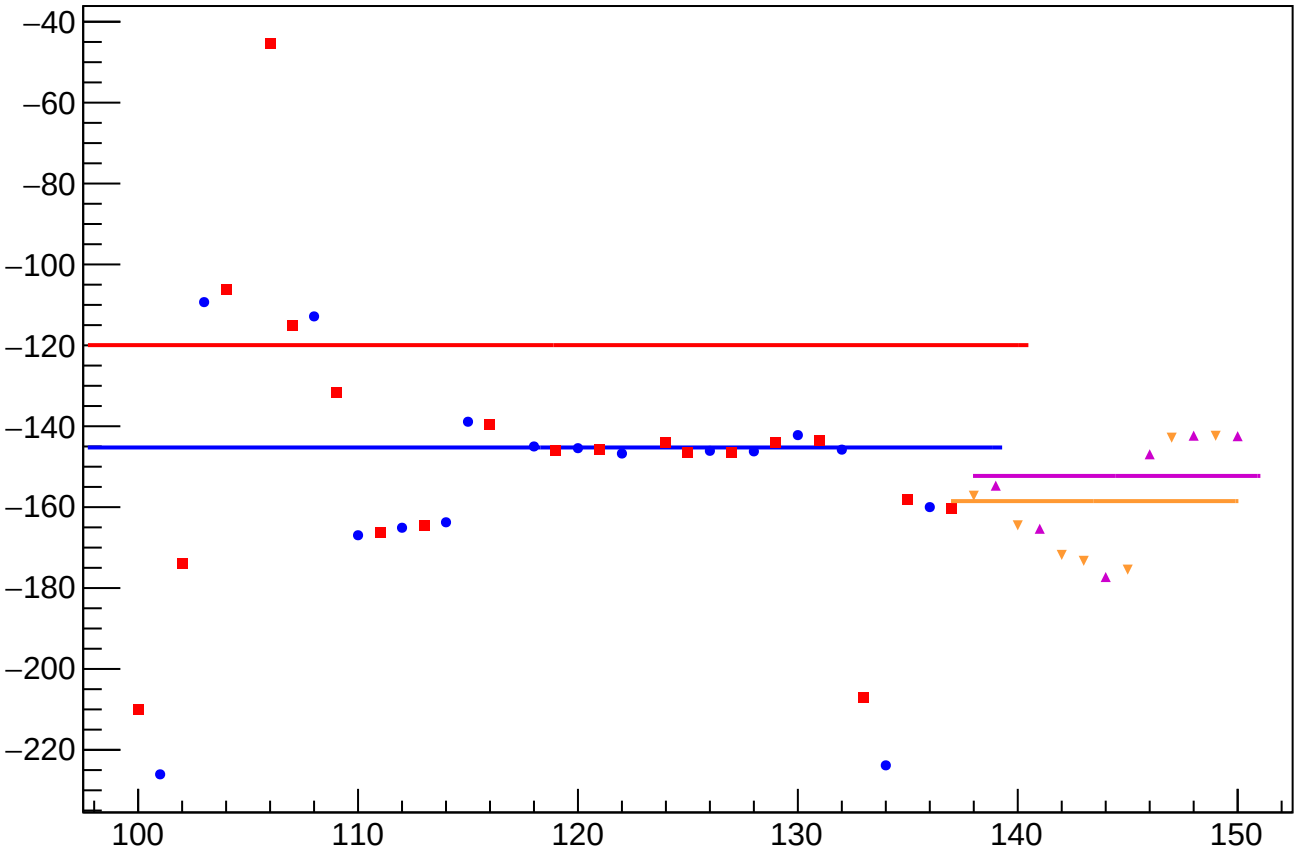
Left: 53.816+/-1.162 $\chi^2$/NDF: 288.2/12

Right: 67.528+/-1.304 $\chi^2$/NDF: 722.2/34

In: 60.862+/-1.243 $\chi^2$/NDF:455.3/21

Out: 58.962+/-1.211 $\chi^2$/NDF:615.6/25

All: 59.888+/-0.868 $\chi^2$/NDF: 1072.0/47




Right In: -145.246+/-0.098 $\chi^2$/NDF: 132057.3/15

Left Out: -158.508+/-0.083 $\chi^2$/NDF:25723.8/6

Right Out: -119.947+/-0.089 $\chi^2$/NDF: 270354.1/18

Left In: -152.279+/-0.082 $\chi^2$/NDF:21061.2/5

Left: -155.335+/-0.058 $\chi^2$/NDF: 49634.6/12

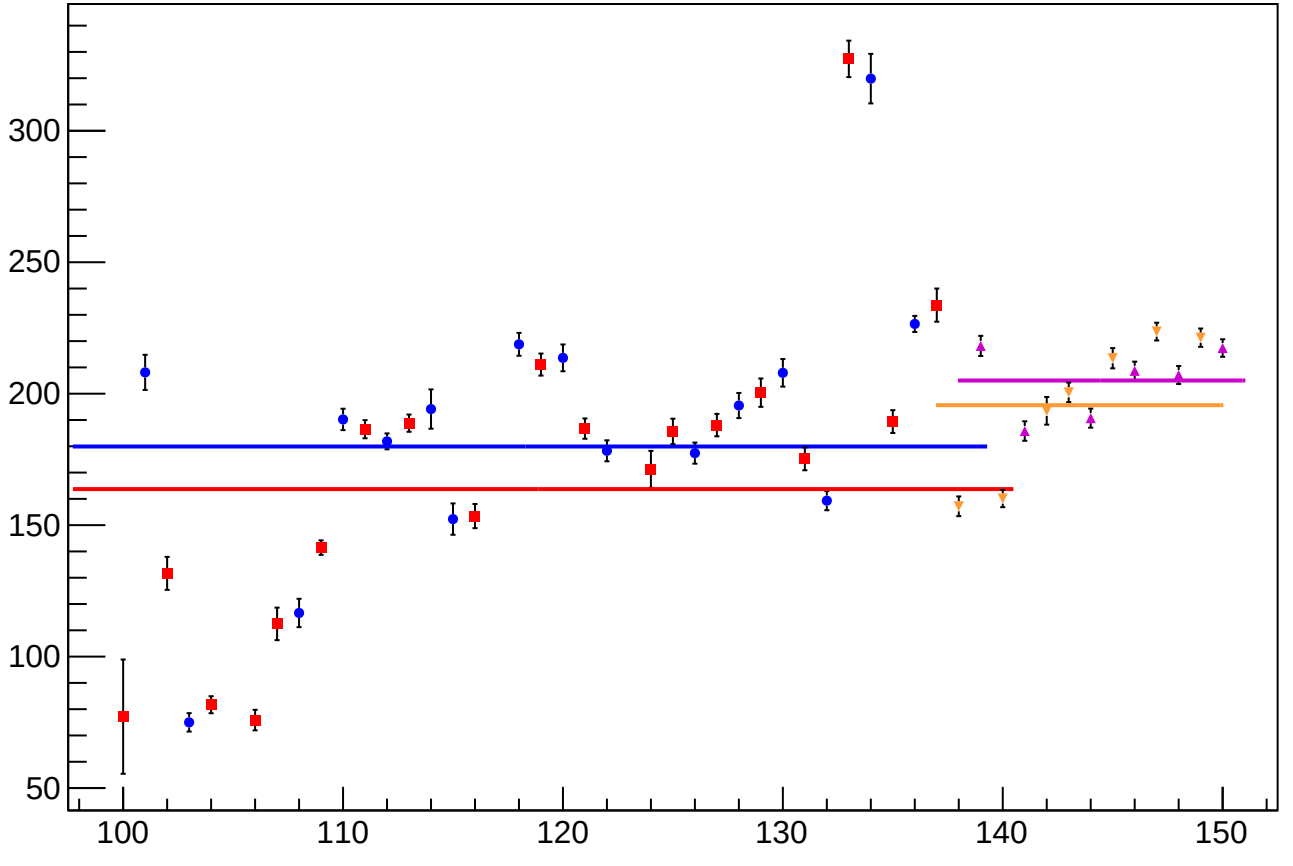
Right: -131.335+/-0.066 $\chi^2$/NDF: 438808.7/34

In: -149.406+/-0.063 $\chi^2$/NDF:156143.3/21

Out: -140.499+/-0.061 $\chi^2$/NDF:396195.6/25

All: -144.804+/-0.044 $\chi^2$/NDF: 562711.7/47

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 179.918+/-1.089 $\chi^2$/NDF: 1732.7/15

Left Out: 195.632+/-1.401 $\chi^2$/NDF:368.9/6

Right Out: 163.718+/-1.001 $\chi^2$/NDF: 2416.8/18

Left In: 205.015+/-1.453 $\chi^2$/NDF:69.4/5

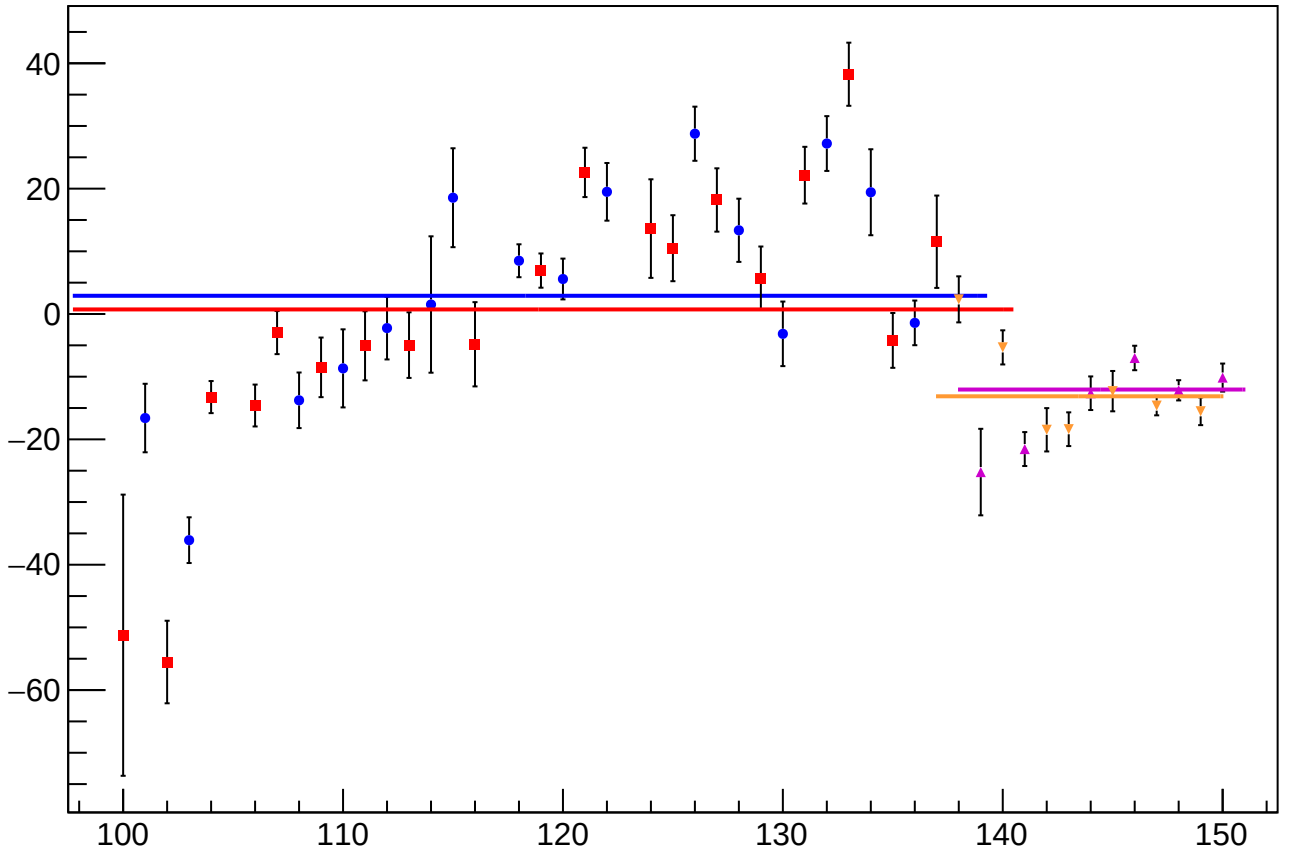
Left: 200.151+/-1.009 $\chi^2$/NDF: 459.9/12

Right: 171.138+/-0.737 $\chi^2$/NDF: 4269.5/34

In: 188.937+/-0.871 $\chi^2$/NDF:1993.1/21

Out: 174.503+/-0.814 $\chi^2$/NDF:3129.4/25

All: 181.233+/-0.595 $\chi^2$/NDF: 5268.9/47




Right In: 2.907+/-1.105 $\chi^2$/NDF: 247.5/15

Left Out: -13.129+/-0.934 $\chi^2$/NDF:34.3/6

Right Out: 0.729+/-1.012 $\chi^2$/NDF: 273.6/18

Left In: -12.050+/-0.935 $\chi^2$/NDF:23.4/5

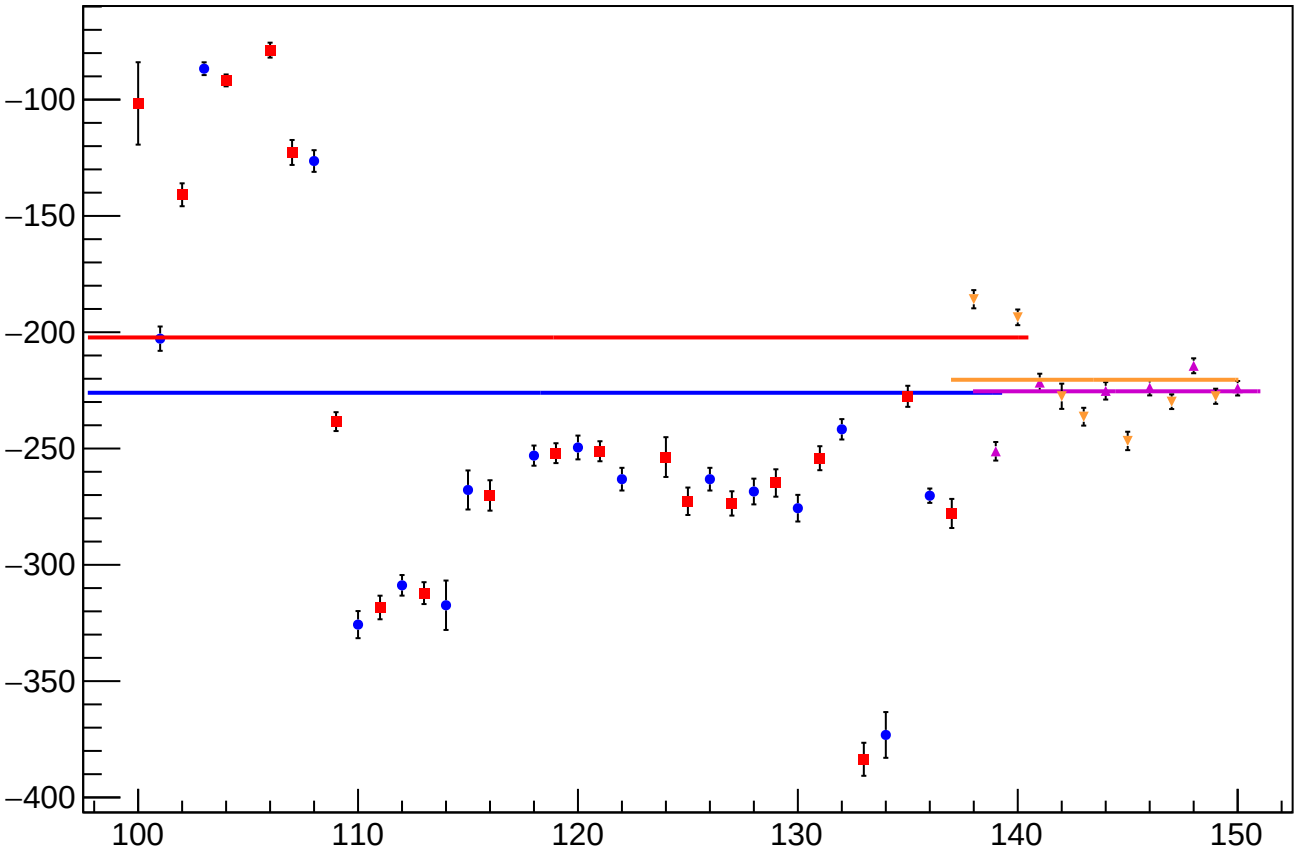
Left: -12.591+/-0.661 $\chi^2$/NDF: 58.3/12

Right: 1.723+/-0.746 $\chi^2$/NDF: 523.2/34

In: -5.804+/-0.714 $\chi^2$/NDF:377.7/21

Out: -6.757+/-0.686 $\chi^2$/NDF:409.1/25

All: -6.299+/-0.495 $\chi^2$/NDF: 787.7/47




Right In: -226.028+/-1.175 $\chi^2$/NDF: 4539.0/15

Left Out: -220.438+/-1.394 $\chi^2$/NDF:218.6/6

Right Out: -202.247+/-1.087 $\chi^2$/NDF: 6690.8/18

Left In: -225.399+/-1.424 $\chi^2$/NDF:54.8/5

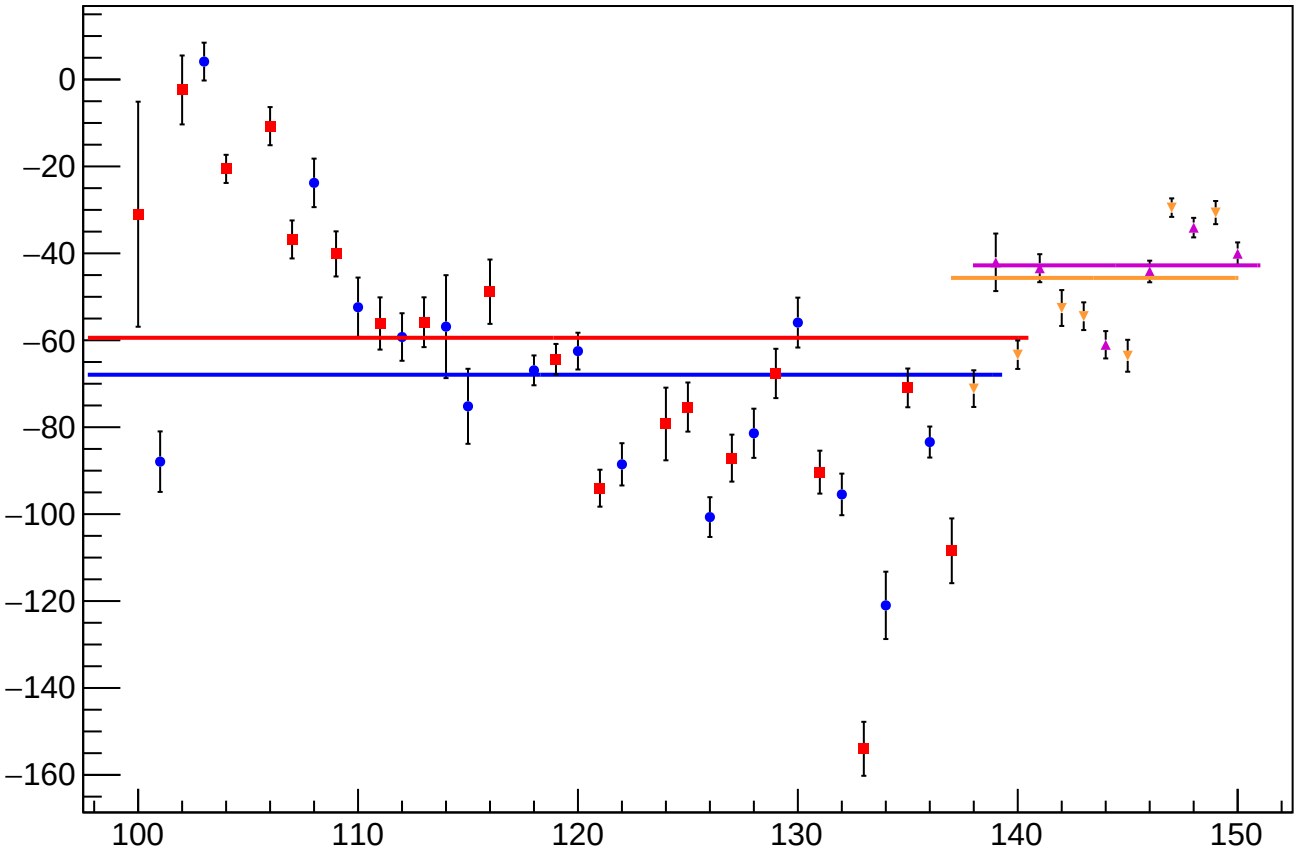
Left: -222.864+/-0.996 $\chi^2$/NDF: 279.6/12

Right: -213.214+/-0.798 $\chi^2$/NDF: 11450.5/34

In: -225.773+/-0.906 $\chi^2$/NDF:4593.9/21

Out: -209.126+/-0.857 $\chi^2$/NDF:7015.3/25

All: -216.985+/-0.623 $\chi^2$/NDF: 11787.3/47




Right In: -67.927+/-1.278 $\chi^2$/NDF: 534.0/15

Left Out: -45.648+/-1.161 $\chi^2$/NDF:189.3/6

Right Out: -59.428+/-1.184 $\chi^2$/NDF: 794.9/18

Left In: -42.764+/-1.171 $\chi^2$/NDF:50.2/5

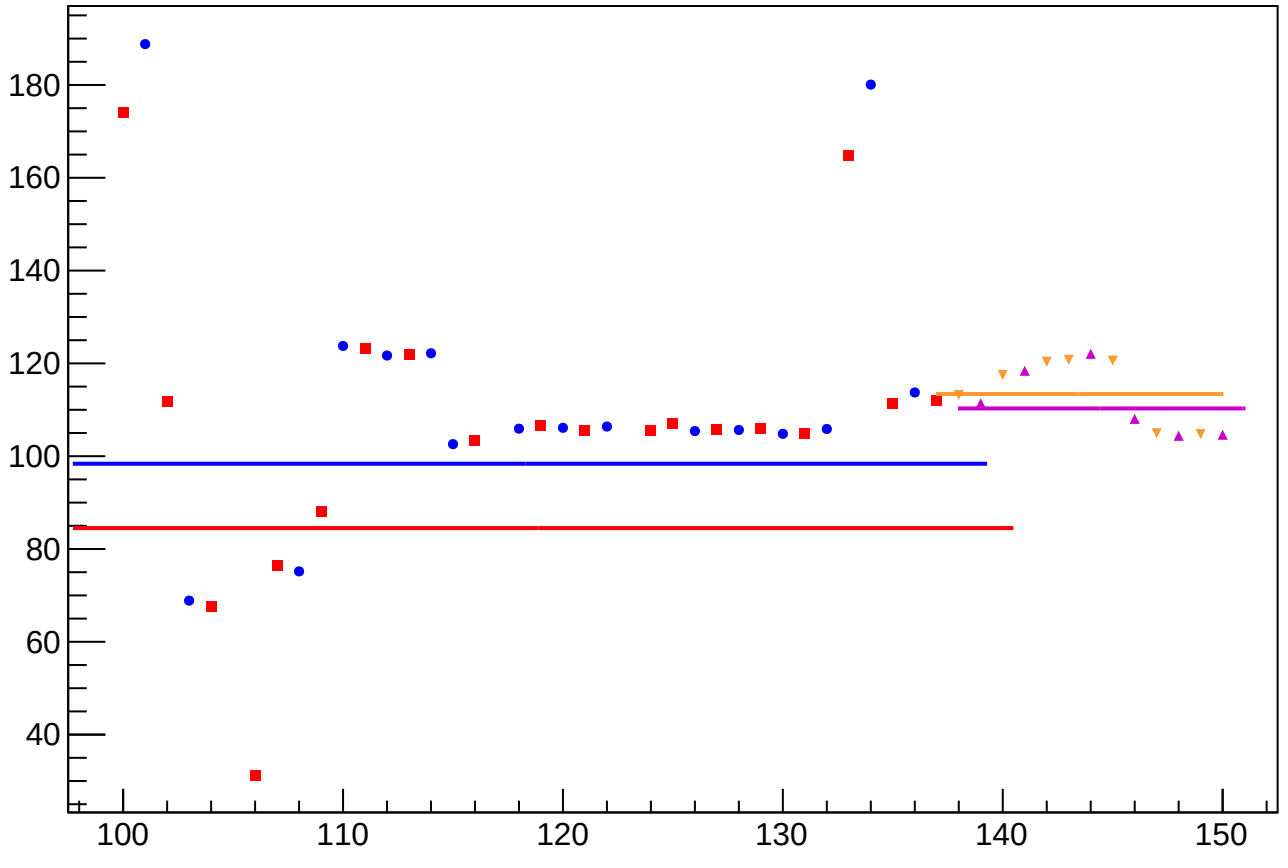
Left: -44.218+/-0.824 $\chi^2$/NDF: 242.5/12

Right: -63.353+/-0.869 $\chi^2$/NDF: 1352.7/34

In: -54.245+/-0.863 $\chi^2$/NDF:795.0/21

Out: -52.402+/-0.829 $\chi^2$/NDF:1053.2/25

All: -53.286+/-0.598 $\chi^2$/NDF: 1850.5/47




Right In: 98.377+/-0.066 $\chi^2$/NDF: 228419.7/15

Left Out: 113.408+/-0.059 $\chi^2$/NDF:13581.3/6

Right Out: 84.512+/-0.061 $\chi^2$/NDF: 268911.0/18

Left In: 110.290+/-0.058 $\chi^2$/NDF:12043.2/5

Left: 111.830+/-0.041 $\chi^2$/NDF: 27046.3/12

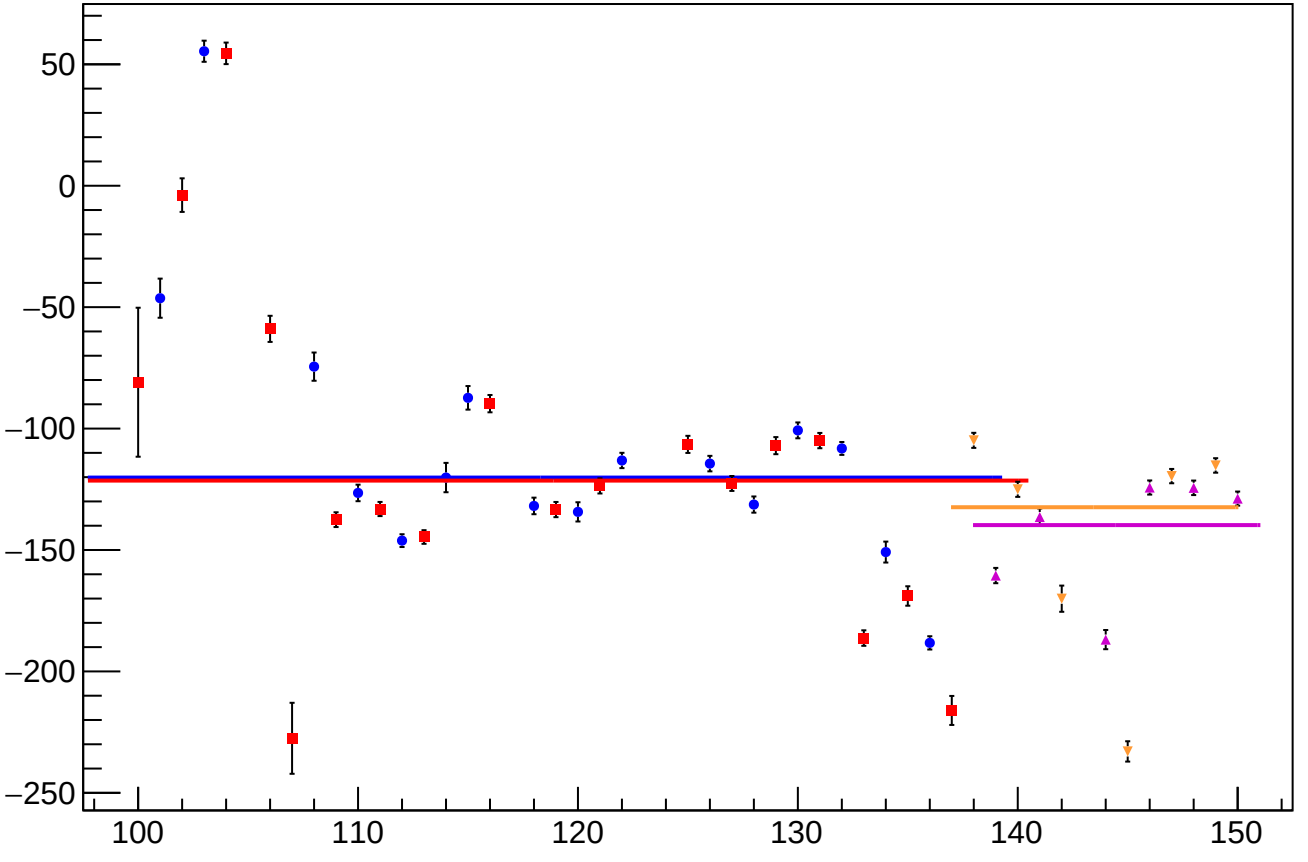
Right: 90.854+/-0.045 $\chi^2$/NDF: 521250.8/34

In: 105.091+/-0.044 $\chi^2$/NDF:258802.3/21

Out: 99.395+/-0.042 $\chi^2$/NDF:399484.7/25

All: 102.150+/-0.030 $\chi^2$/NDF: 667089.1/47

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -120.177+/-0.891 $\chi^2$/NDF: 2691.2/15

Left Out: -132.388+/-1.379 $\chi^2$/NDF:762.3/5

Right Out: -121.418+/-0.875 $\chi^2$/NDF: 3126.3/17

Left In: -139.747+/-1.296 $\chi^2$/NDF:255.8/5

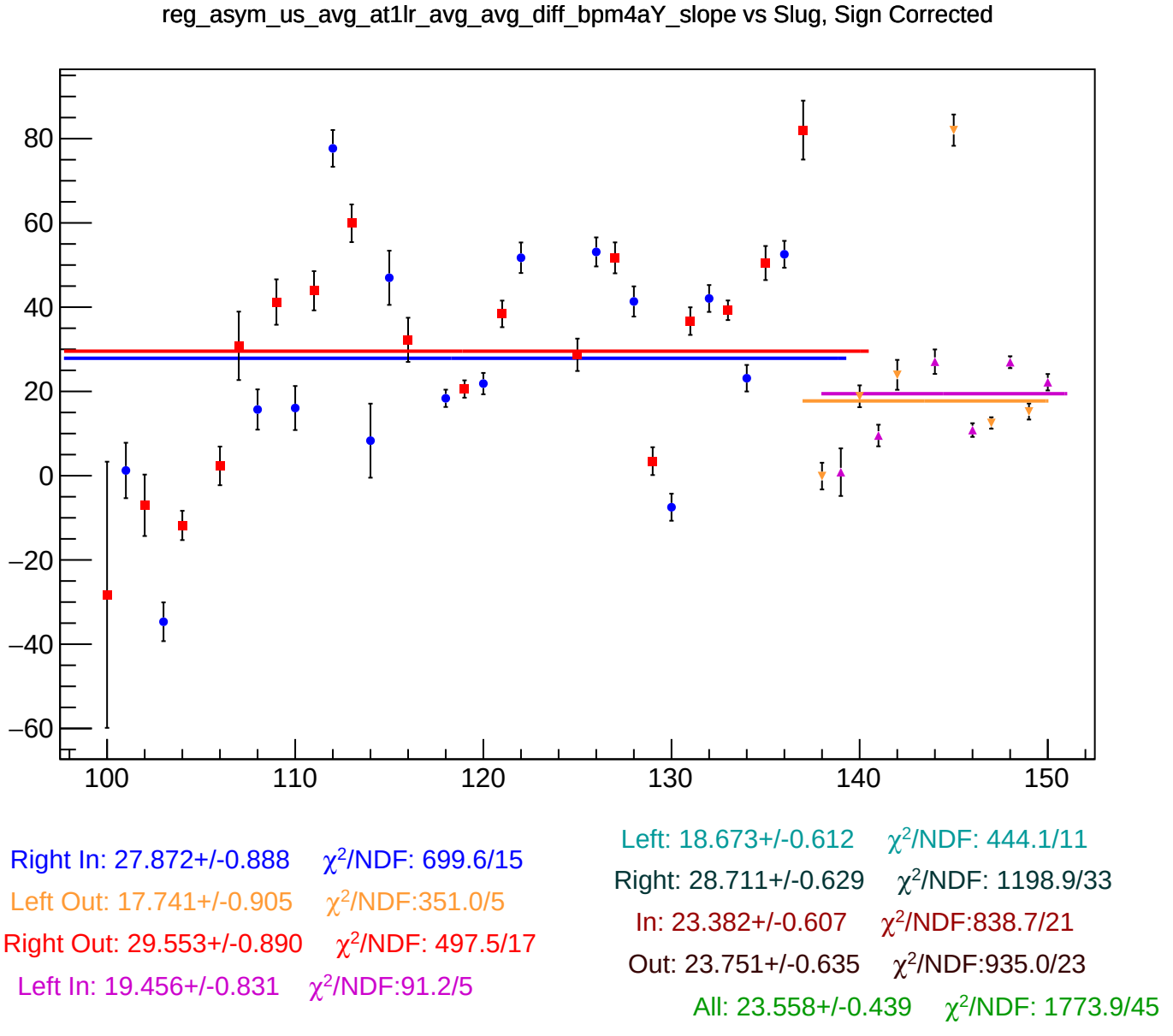
Left: -136.295+/-0.944 $\chi^2$/NDF: 1033.2/11

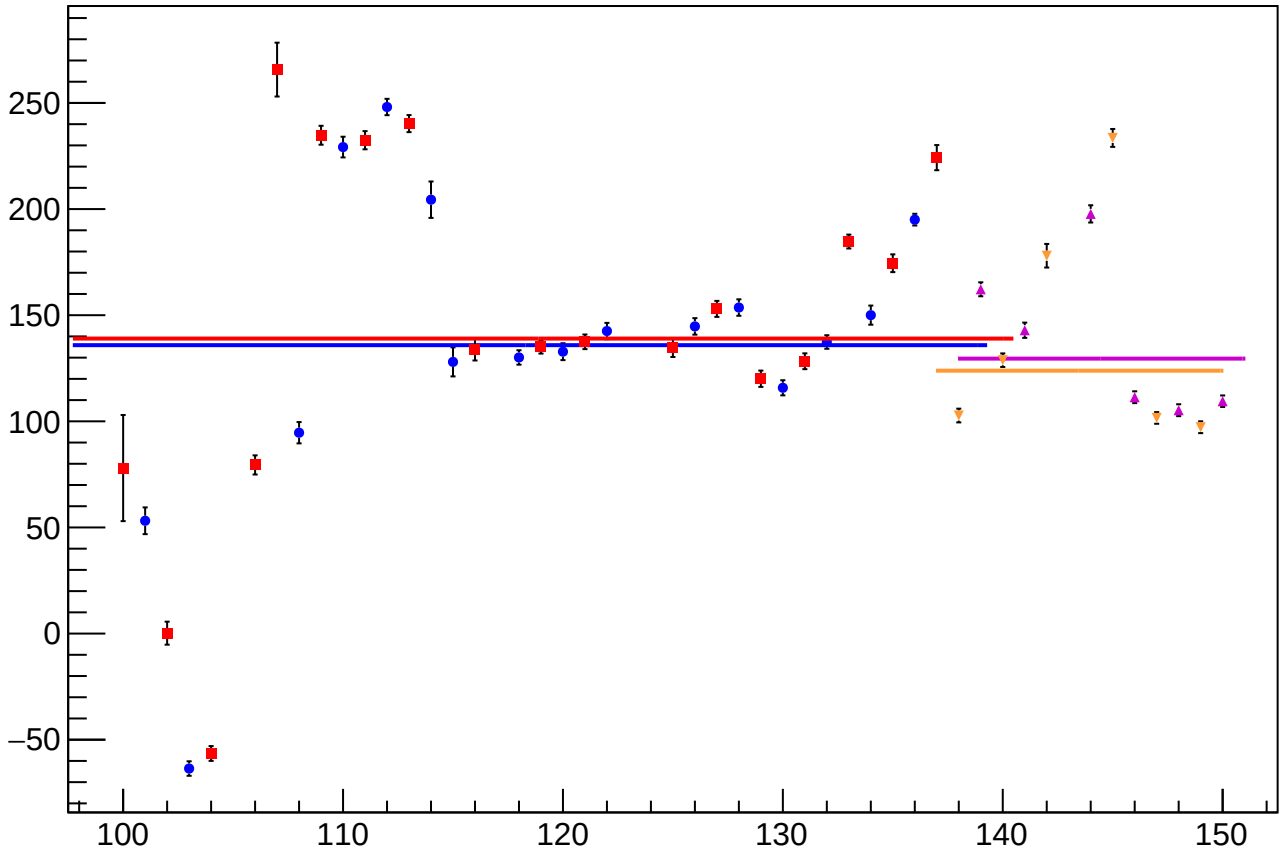
Right: -120.808+/-0.624 $\chi^2$/NDF: 5818.5/33

In: -126.454+/-0.734 $\chi^2$/NDF:3101.9/21

Out: -124.569+/-0.739 $\chi^2$/NDF:3933.8/23

All: -125.518+/-0.521 $\chi^2$/NDF: 7038.9/45


reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
100
110
120
130
140
150
Right In: 27.872+/-0.888 χ²/NDF: 699.6/15
Left Out: 17.741+/-0.905 χ²/NDF:351.0/5
Right Out: 29.553+/-0.890 χ²/NDF: 497.5/17
Left In: 19.456+/-0.831 χ²/NDF:91.2/5
Left: 18.673+/-0.612 χ²/NDF: 444.1/11
Right: 28.711+/-0.629 χ²/NDF: 1198.9/33
In: 23.382+/-0.607 χ²/NDF:838.7/21
Out: 23.751+/-0.635 χ²/NDF:935.0/23
All: 23.558+/-0.439 χ²/NDF: 1773.9/45




Right In: 135.883+/-0.999 $\chi^2$/NDF: 5463.6/15

Left Out: 123.858+/-1.358 $\chi^2$/NDF:971.8/5

Right Out: 138.985+/-0.998 $\chi^2$/NDF: 6156.4/17

Left In: 129.545+/-1.266 $\chi^2$/NDF:567.1/5

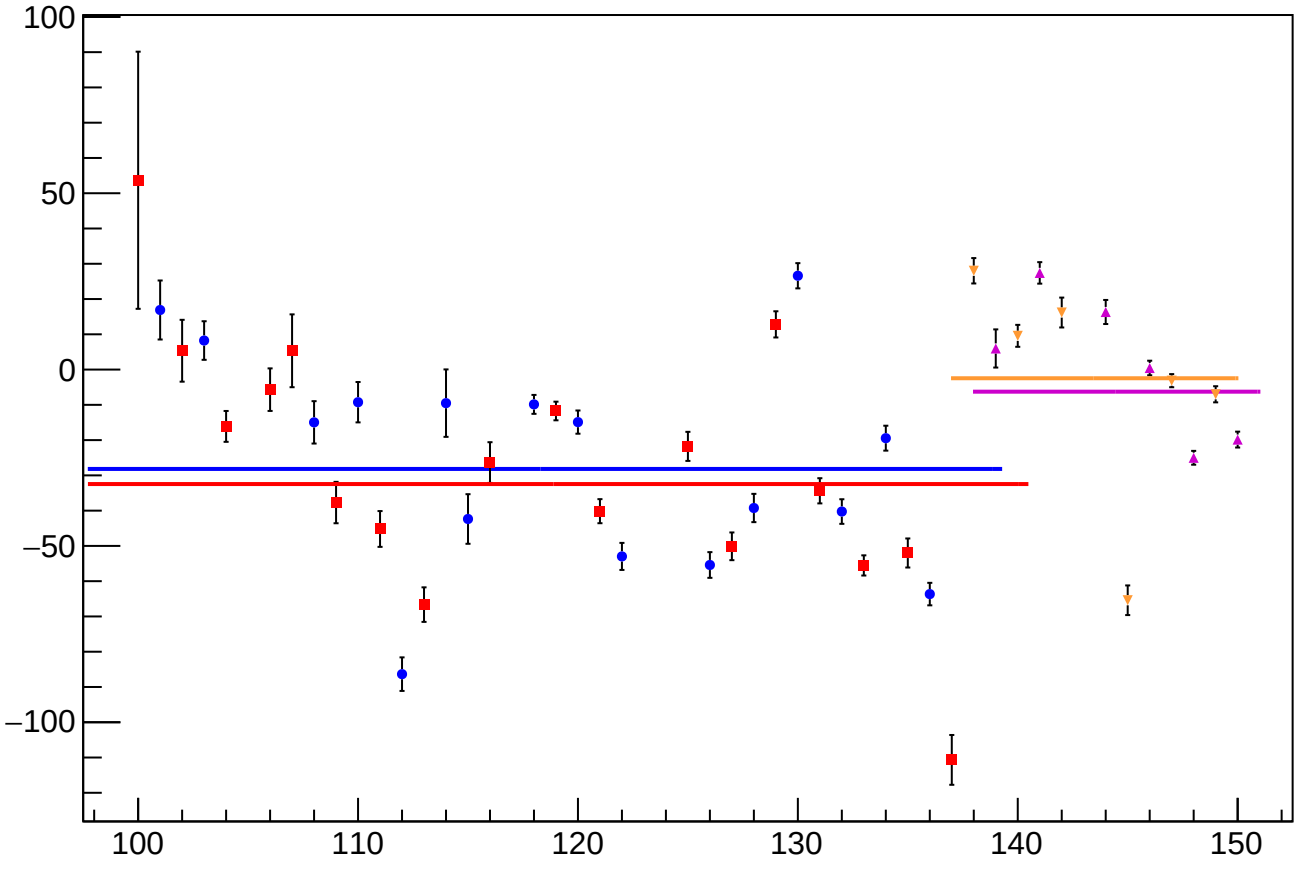
Left: 126.899+/-0.926 $\chi^2$/NDF: 1548.3/11

Right: 137.434+/-0.706 $\chi^2$/NDF: 11624.9/33

In: 133.453+/-0.784 $\chi^2$/NDF:6046.2/21

Out: 133.676+/-0.804 $\chi^2$/NDF:7208.8/23

All: 133.562+/-0.561 $\chi^2$/NDF: 13255.0/45




Right In: -28.175+/-1.022 $\chi^2$/NDF: 791.2/15

Left Out: -2.461+/-1.137 $\chi^2$/NDF:334.4/5

Right Out: -32.459+/-1.027 $\chi^2$/NDF: 580.8/17

Left In: -6.268+/-1.043 $\chi^2$/NDF:309.5/5

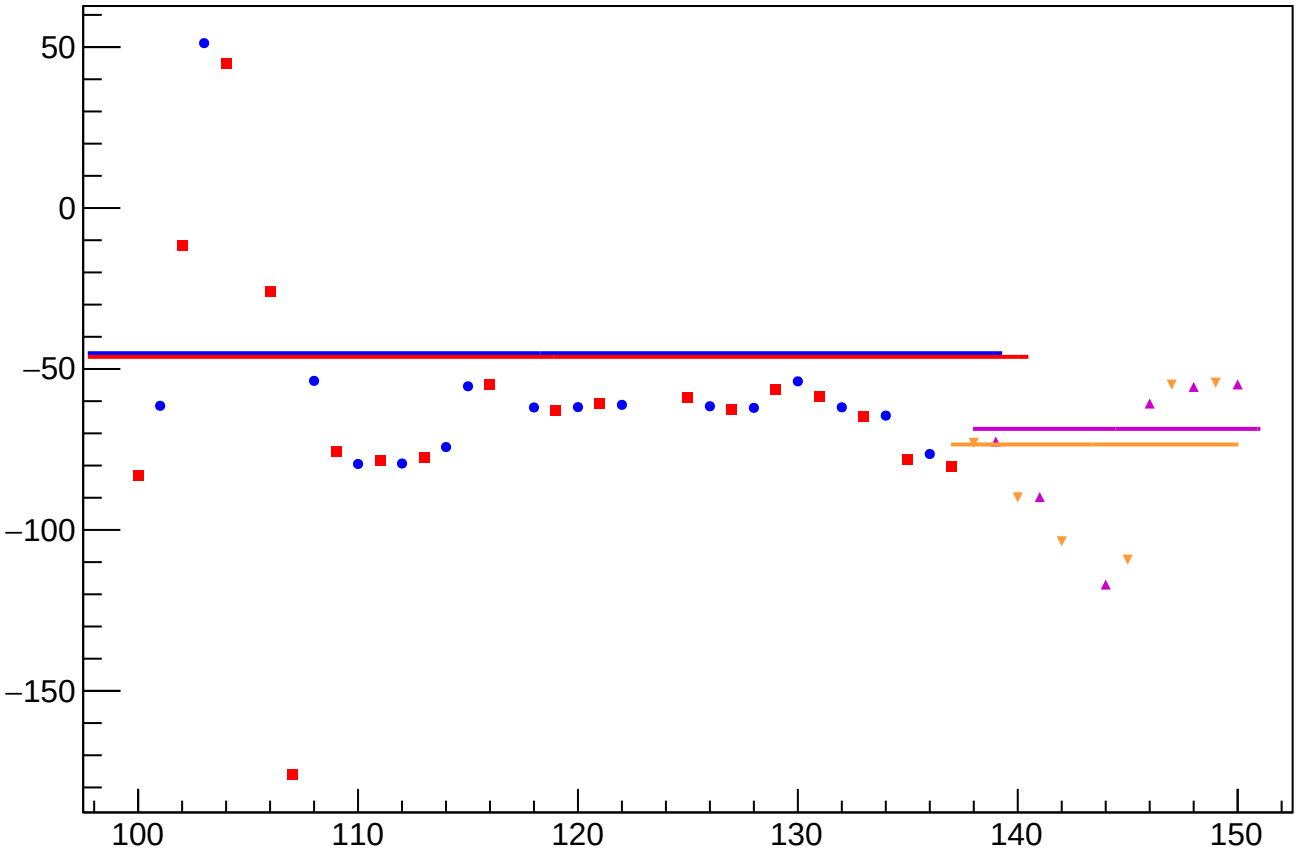
Left: -4.528+/-0.769 $\chi^2$/NDF: 650.0/11

Right: -30.307+/-0.725 $\chi^2$/NDF: 1380.8/33

In: -17.443+/-0.730 $\chi^2$/NDF:1325.6/21

Out: -18.976+/-0.762 $\chi^2$/NDF:1298.5/23

All: -18.177+/-0.527 $\chi^2$/NDF: 2626.2/45




Right In: -45.106+/-0.060 $\chi^2$/NDF: 575184.2/15

Left Out: -73.453+/-0.057 $\chi^2$/NDF:127032.0/5

Right Out: -46.229+/-0.063 $\chi^2$/NDF: 493616.3/17

Left In: -68.608+/-0.051 $\chi^2$/NDF:125404.6/5

Left: -70.763+/-0.038 $\chi^2$/NDF: 256413.0/11

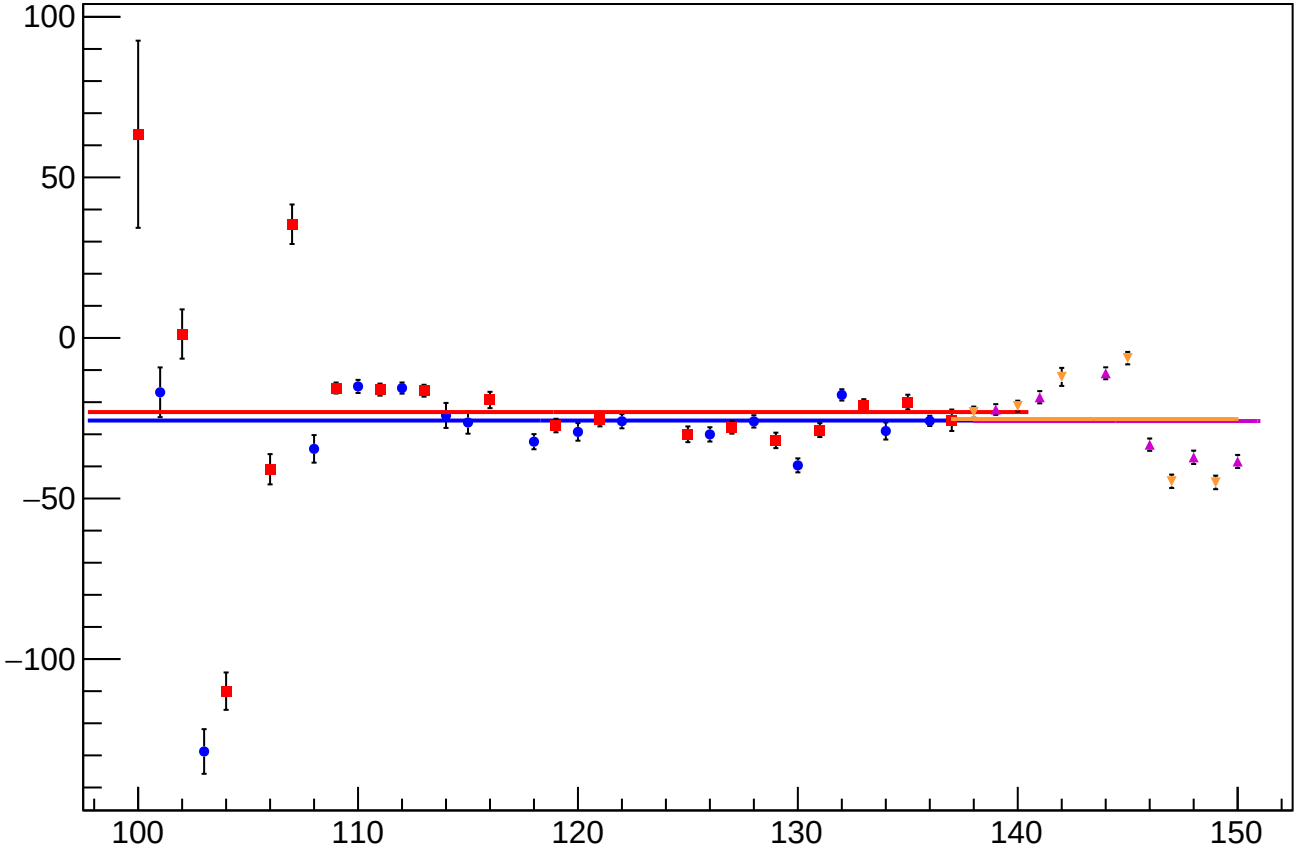
Right: -45.645+/-0.043 $\chi^2$/NDF: 1068967.9/33

In: -58.723+/-0.039 $\chi^2$/NDF:789089.6/21

Out: -61.051+/-0.042 $\chi^2$/NDF:723665.0/23

All: -59.794+/-0.029 $\chi^2$/NDF: 1514395.3/45

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -25.721+/-0.590 $\chi^2$/NDF: 363.0/15

Left Out: -25.247+/-0.808 $\chi^2$/NDF:297.3/5

Right Out: -23.079+/-0.582 $\chi^2$/NDF: 437.1/17

Left In: -25.877+/-0.775 $\chi^2$/NDF:166.0/5

Left: -25.575+/-0.559 $\chi^2$/NDF: 463.7/11

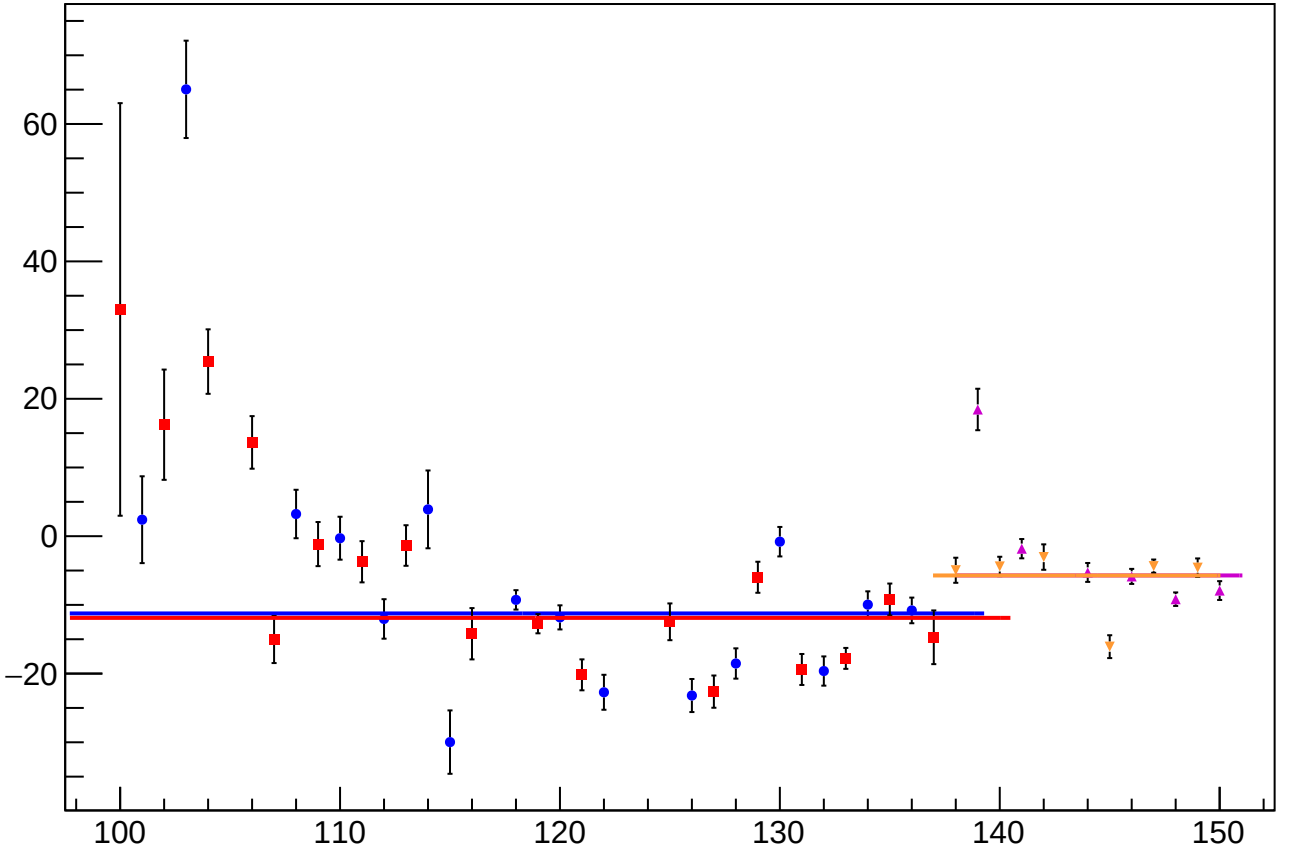
Right: -24.381+/-0.414 $\chi^2$/NDF: 810.3/33

In: -25.779+/-0.470 $\chi^2$/NDF:529.1/21

Out: -23.819+/-0.472 $\chi^2$/NDF:739.2/23

All: -24.804+/-0.333 $\chi^2$/NDF: 1276.9/45

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -11.246+/-0.600 $\chi^2$/NDF: 271.1/15

Left Out: -5.716+/-0.570 $\chi^2$/NDF:44.6/5

Right Out: -11.890+/-0.607 $\chi^2$/NDF: 224.5/17

Left In: -5.714+/-0.531 $\chi^2$/NDF:86.8/5

Left: -5.715+/-0.389 $\chi^2$/NDF: 131.4/11

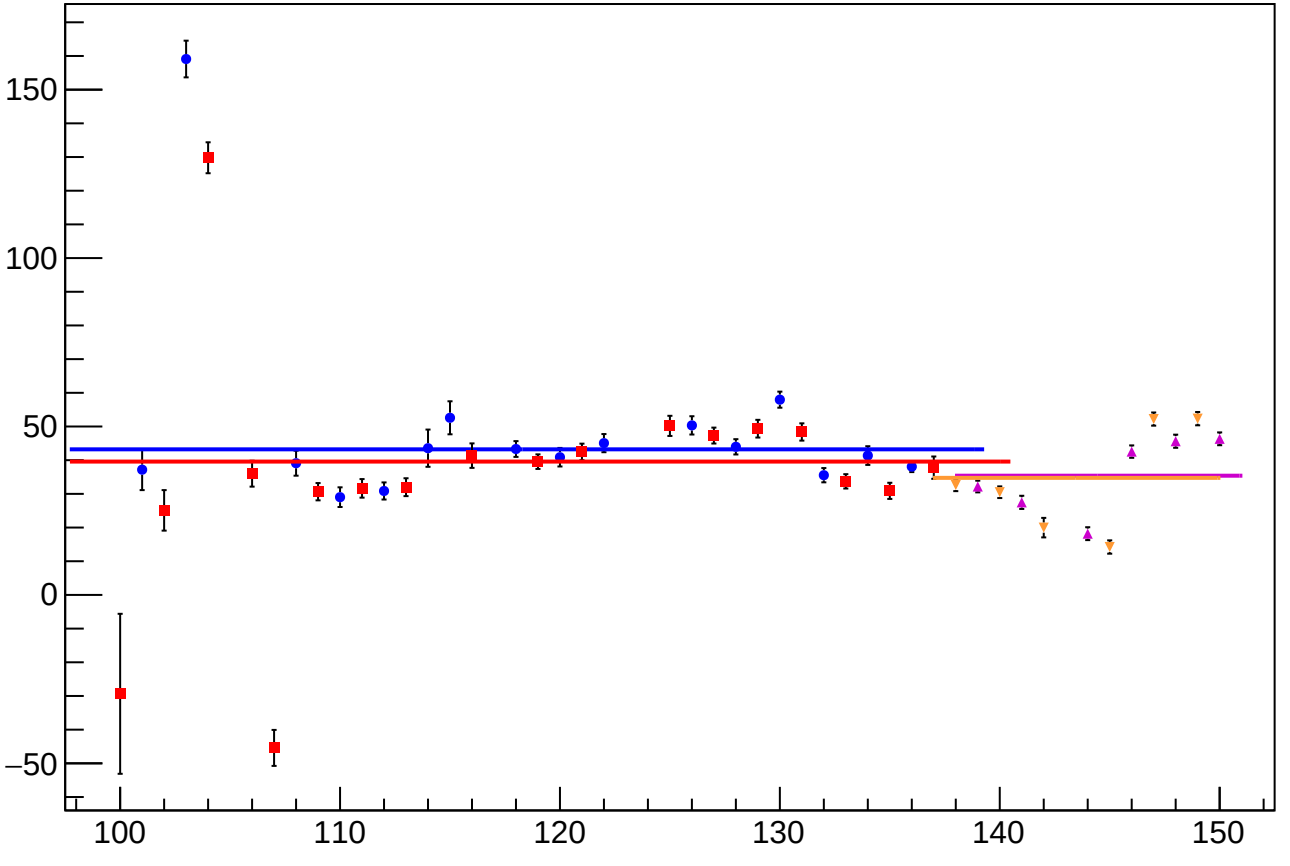
Right: -11.564+/-0.427 $\chi^2$/NDF: 496.1/33

In: -8.145+/-0.398 $\chi^2$/NDF:405.5/21

Out: -8.609+/-0.415 $\chi^2$/NDF:324.0/23

All: -8.367+/-0.287 $\chi^2$/NDF: 730.2/45

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 43.222+/-0.678 $\chi^2$/NDF: 576.0/15

Left Out: 34.752+/-0.808 $\chi^2$/NDF:299.9/5

Right Out: 39.587+/-0.685 $\chi^2$/NDF: 754.0/17

Left In: 35.394+/-0.767 $\chi^2$/NDF:176.4/5

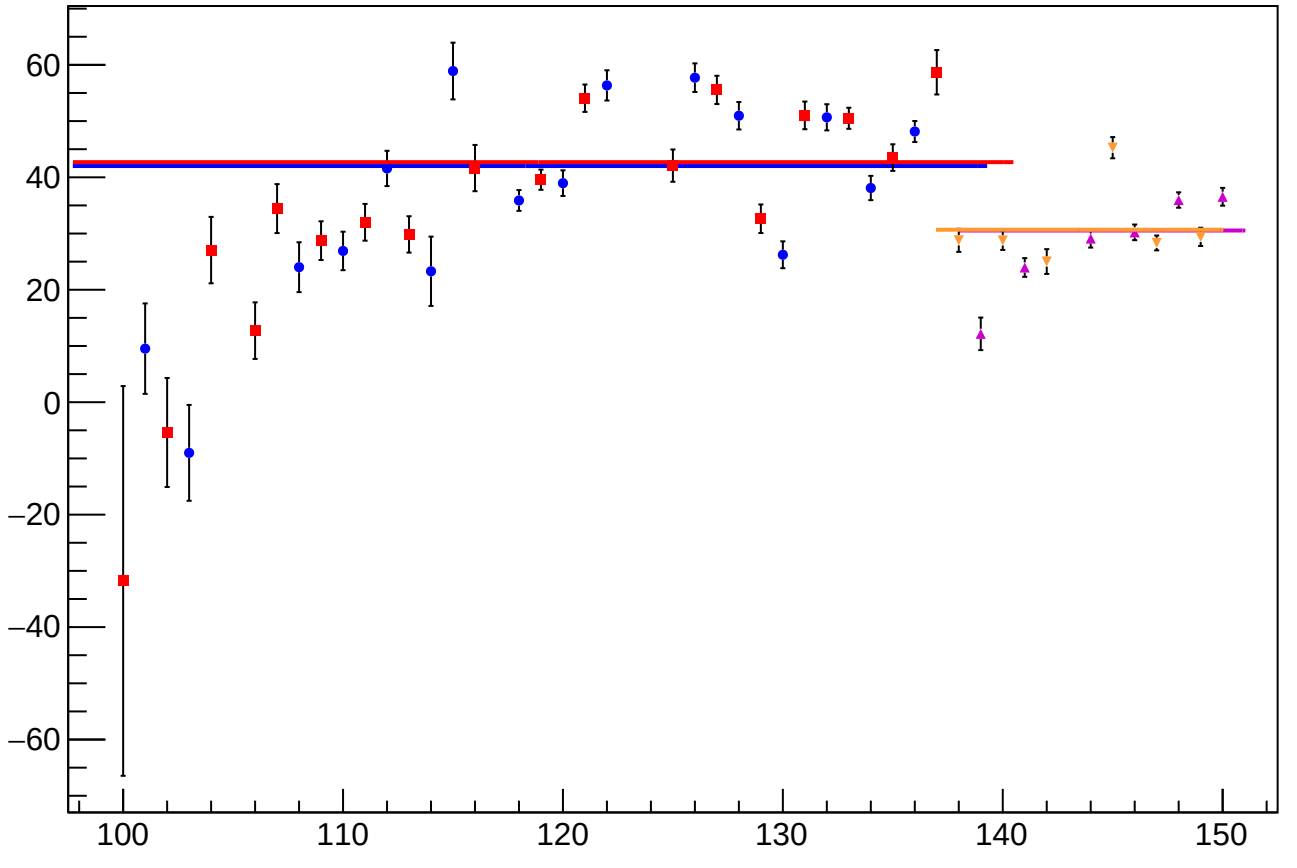
Left: 35.089+/-0.556 $\chi^2$/NDF: 476.7/11

Right: 41.422+/-0.482 $\chi^2$/NDF: 1344.2/33

In: 39.789+/-0.508 $\chi^2$/NDF:810.9/21

Out: 37.566+/-0.522 $\chi^2$/NDF:1074.8/23

All: 38.708+/-0.364 $\chi^2$/NDF: 1894.9/45




Right In: 42.006+/-0.684 $\chi^2$/NDF: 272.7/15

Left Out: 30.676+/-0.702 $\chi^2$/NDF:72.4/5

Right Out: 42.696+/-0.695 $\chi^2$/NDF: 230.3/17

Left In: 30.541+/-0.657 $\chi^2$/NDF:86.8/5

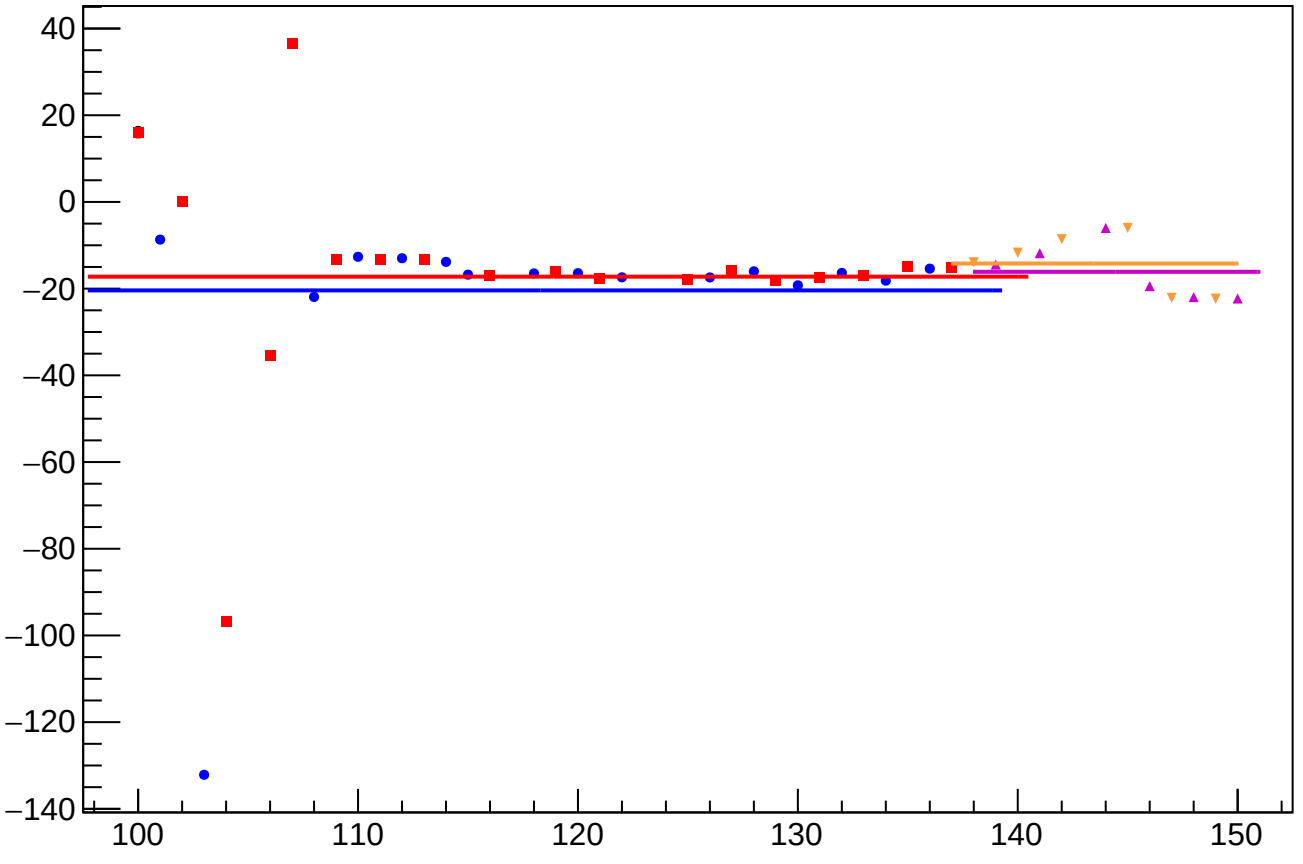
Left: 30.604+/-0.480 $\chi^2$/NDF: 159.2/11

Right: 42.345+/-0.487 $\chi^2$/NDF: 503.5/33

In: 36.044+/-0.474 $\chi^2$/NDF:505.7/21

Out: 36.749+/-0.494 $\chi^2$/NDF:450.8/23

All: 36.382+/-0.342 $\chi^2$/NDF: 957.6/45




Right In: -20.405+/-0.042 $\chi^2$/NDF: 245611.9/15

Left Out: -14.203+/-0.034 $\chi^2$/NDF:32285.8/5

Right Out: -17.236+/-0.044 $\chi^2$/NDF: 204657.3/17

Left In: -16.117+/-0.031 $\chi^2$/NDF:31240.0/5

Left: -15.239+/-0.023 $\chi^2$/NDF: 65275.0/11

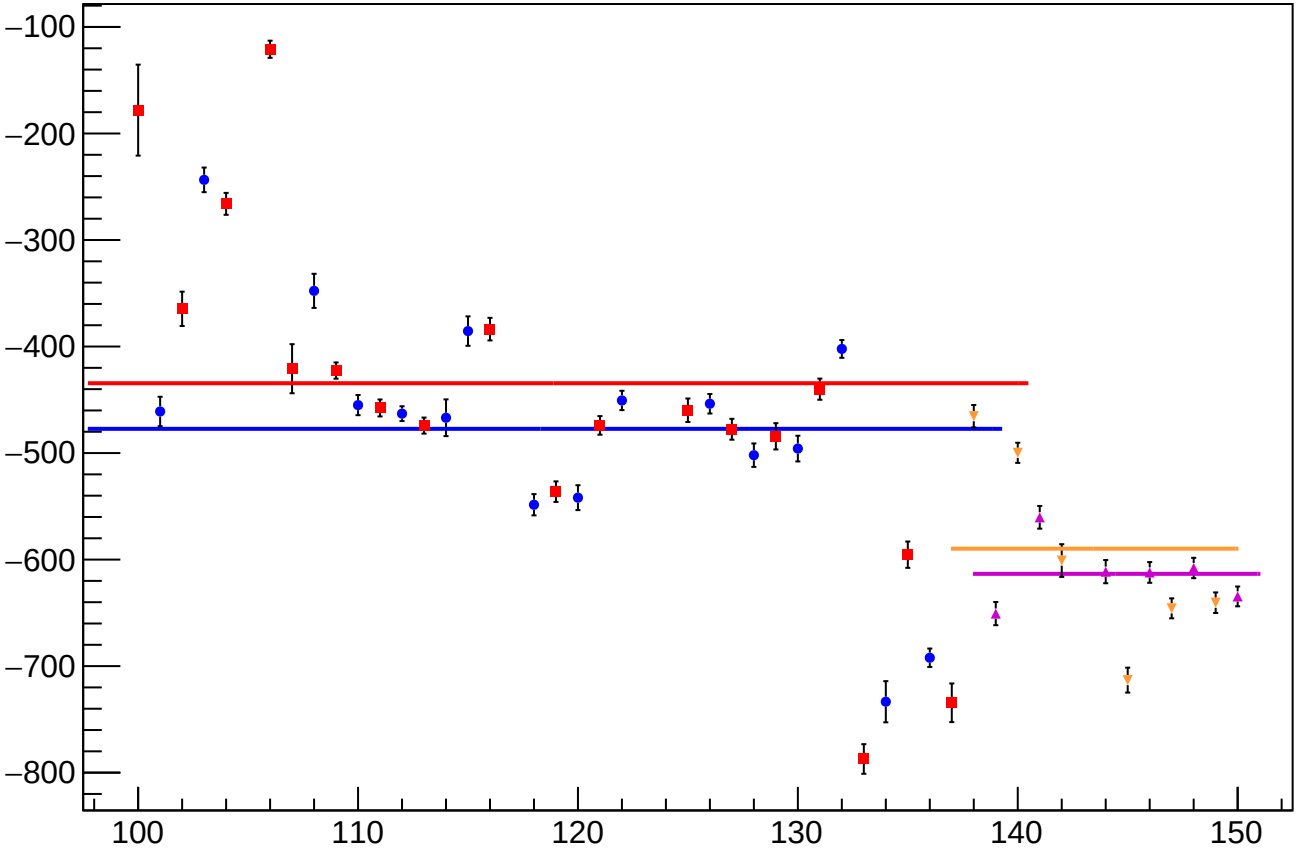
Right: -18.901+/-0.030 $\chi^2$/NDF: 452982.8/33

In: -17.634+/-0.025 $\chi^2$/NDF:283618.1/21

Out: -15.320+/-0.027 $\chi^2$/NDF:239931.7/23

All: -16.559+/-0.018 $\chi^2$/NDF: 527552.4/45

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -477.255+/-2.633 $\chi^2$/NDF: 1510.8/15

Left Out: -589.747+/-4.307 $\chi^2$/NDF:405.3/5

Right Out: -434.437+/-2.464 $\chi^2$/NDF: 3161.9/17

Left In: -613.383+/-4.126 $\chi^2$/NDF:42.2/5

Left: -602.073+/-2.980 $\chi^2$/NDF: 463.2/11

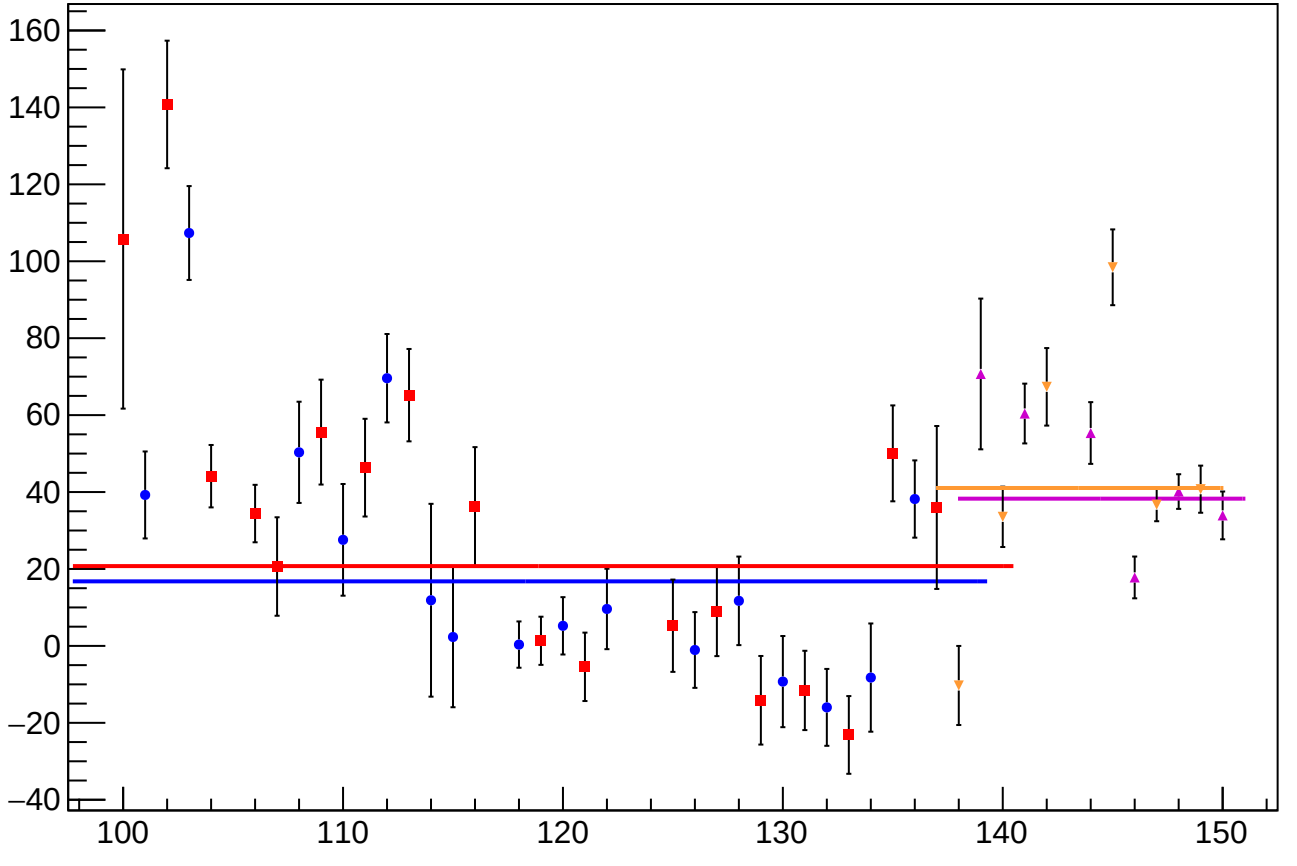
Right: -454.426+/-1.799 $\chi^2$/NDF: 4813.7/33

In: -516.651+/-2.220 $\chi^2$/NDF:2326.5/21

Out: -472.726+/-2.139 $\chi^2$/NDF:4546.8/23

All: -493.873+/-1.540 $\chi^2$/NDF: 7076.4/45

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 16.780+/-2.654 $\chi^2$/NDF: 125.0/15

Left Out: 41.054+/-2.812 $\chi^2$/NDF:67.6/5

Right Out: 20.749+/-2.548 $\chi^2$/NDF: 157.9/17

Left In: 38.281+/-2.637 $\chi^2$/NDF:30.2/5

Left: 39.578+/-1.924 $\chi^2$/NDF: 98.4/11

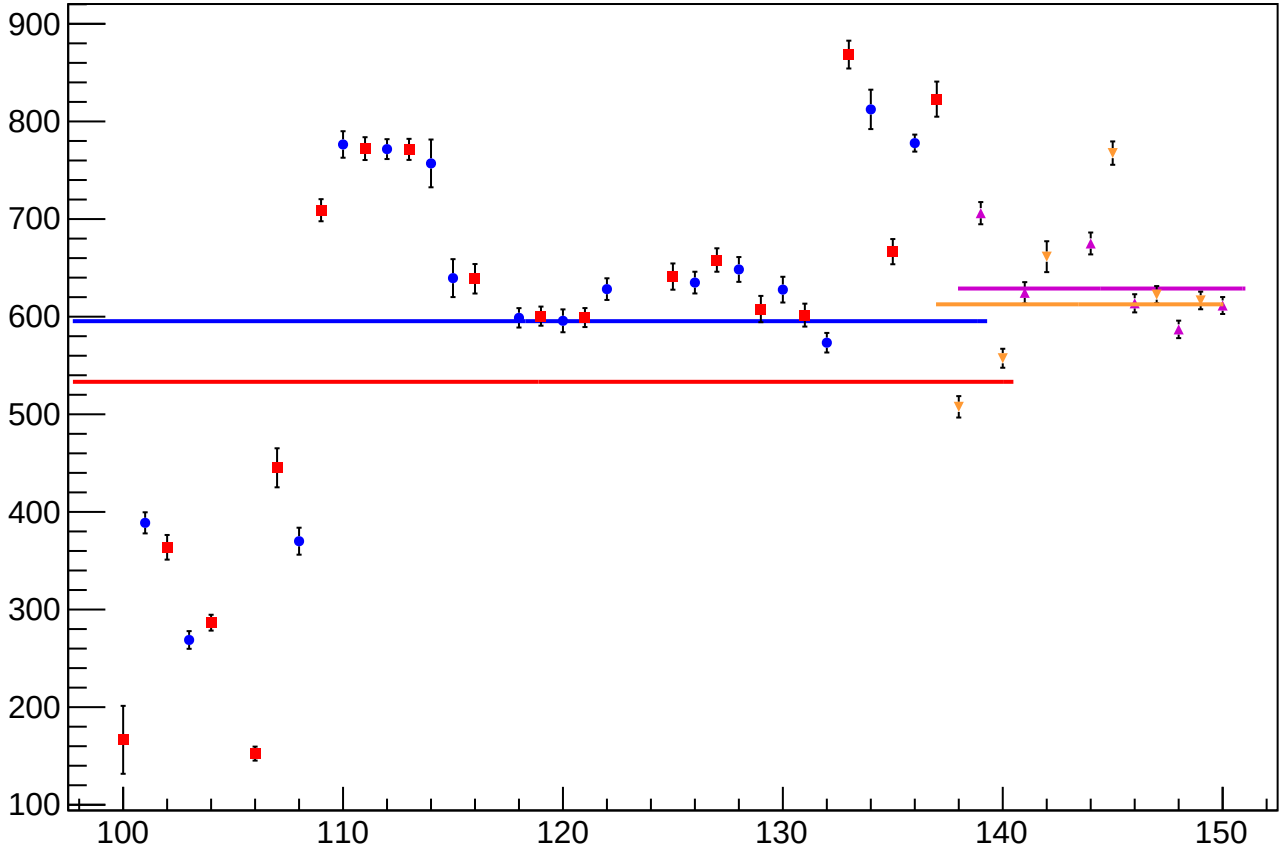
Right: 18.845+/-1.838 $\chi^2$/NDF: 284.1/33

In: 27.599+/-1.871 $\chi^2$/NDF:188.2/21

Out: 29.905+/-1.888 $\chi^2$/NDF:254.2/23

All: 28.741+/-1.329 $\chi^2$/NDF: 443.1/45

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 595.406+/-2.930 $\chi^2$/NDF: 3059.7/15

Left Out: 612.656+/-4.253 $\chi^2$/NDF:302.5/5

Right Out: 533.283+/-2.746 $\chi^2$/NDF: 6502.9/17

Left In: 628.834+/-4.036 $\chi^2$/NDF:91.8/5

Left: 621.168+/-2.928 $\chi^2$/NDF: 401.9/11

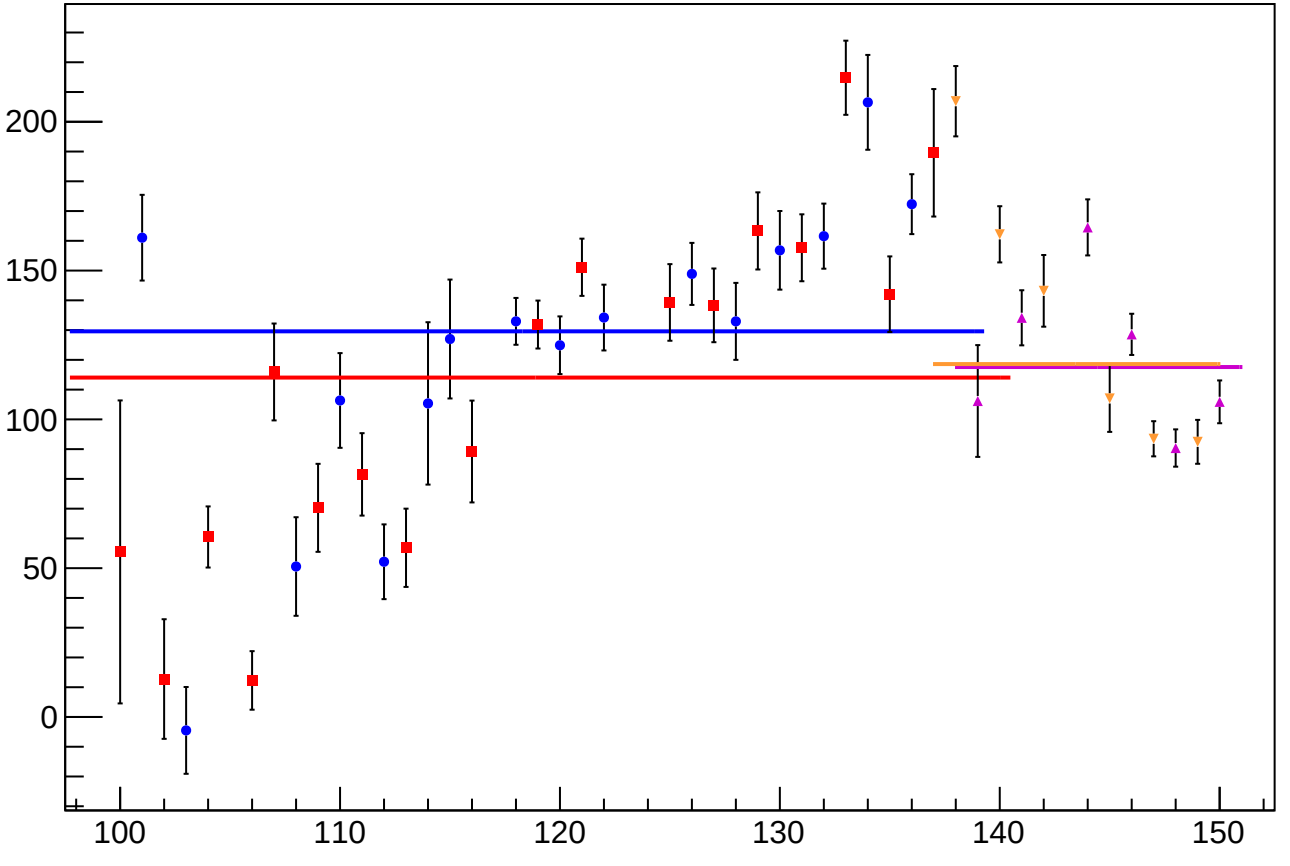
Right: 562.337+/-2.003 $\chi^2$/NDF: 9802.0/33

In: 606.940+/-2.371 $\chi^2$/NDF:3196.4/21

Out: 556.633+/-2.307 $\chi^2$/NDF:7051.2/23

All: 581.099+/-1.653 $\chi^2$/NDF: 10478.8/45

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 129.586+/-3.081 $\chi^2$/NDF: 211.2/15

Left Out: 118.583+/-3.530 $\chi^2$/NDF:113.1/5

Right Out: 114.048+/-2.976 $\chi^2$/NDF: 335.9/17

Left In: 117.589+/-3.307 $\chi^2$/NDF:52.4/5

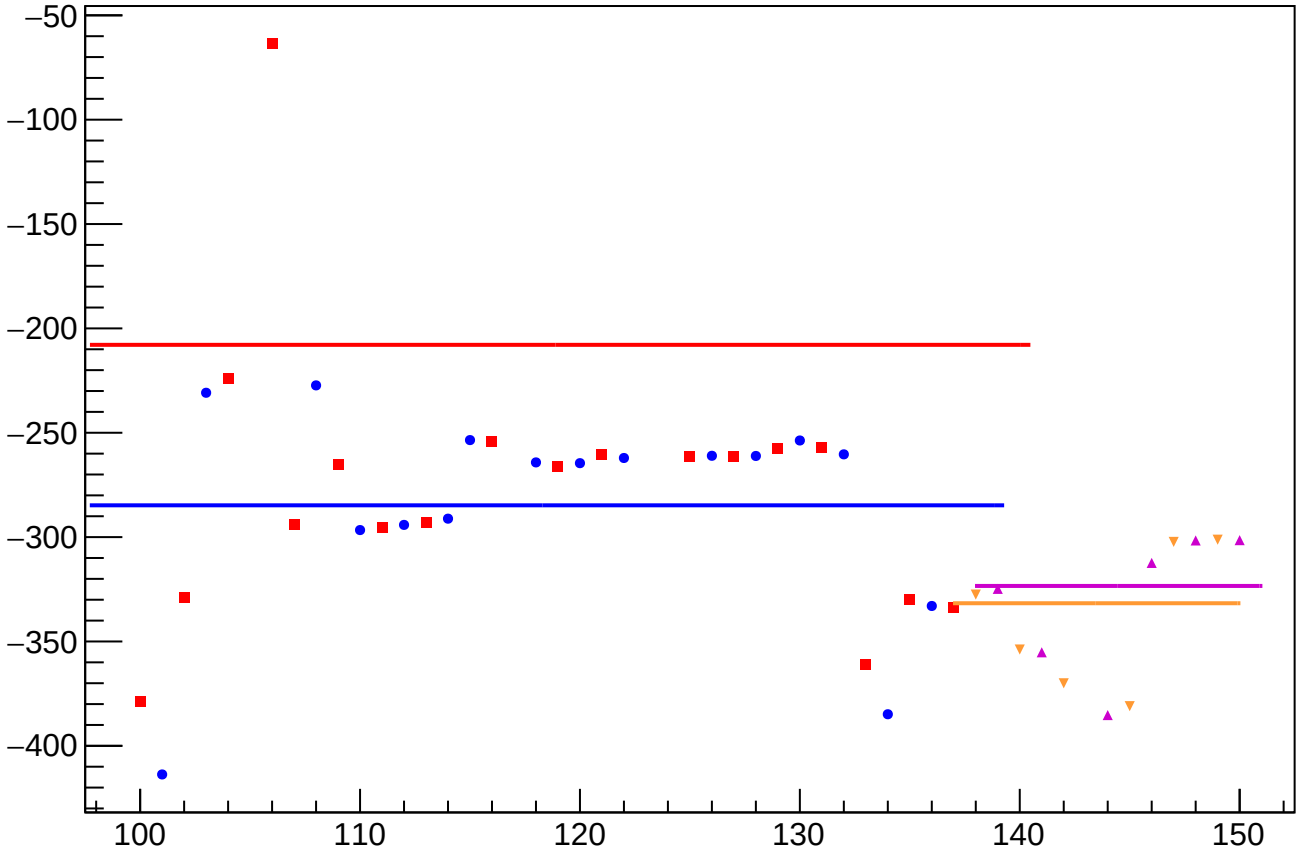
Left: 118.054+/-2.413 $\chi^2$/NDF: 165.5/11

Right: 121.549+/-2.140 $\chi^2$/NDF: 560.3/33

In: 124.012+/-2.254 $\chi^2$/NDF:270.7/21

Out: 115.932+/-2.275 $\chi^2$/NDF:450.0/23

All: 120.010+/-1.601 $\chi^2$/NDF: 727.0/45




Right In: -284.765+/-0.178 $\chi^2$/NDF: 104370.4/15

Left Out: -331.682+/-0.180 $\chi^2$/NDF:29163.7/5

Right Out: -207.875+/-0.149 $\chi^2$/NDF: 536707.7/17

Left In: -323.392+/-0.165 $\chi^2$/NDF:28456.1/5

Left: -327.162+/-0.121 $\chi^2$/NDF: 58774.4/11

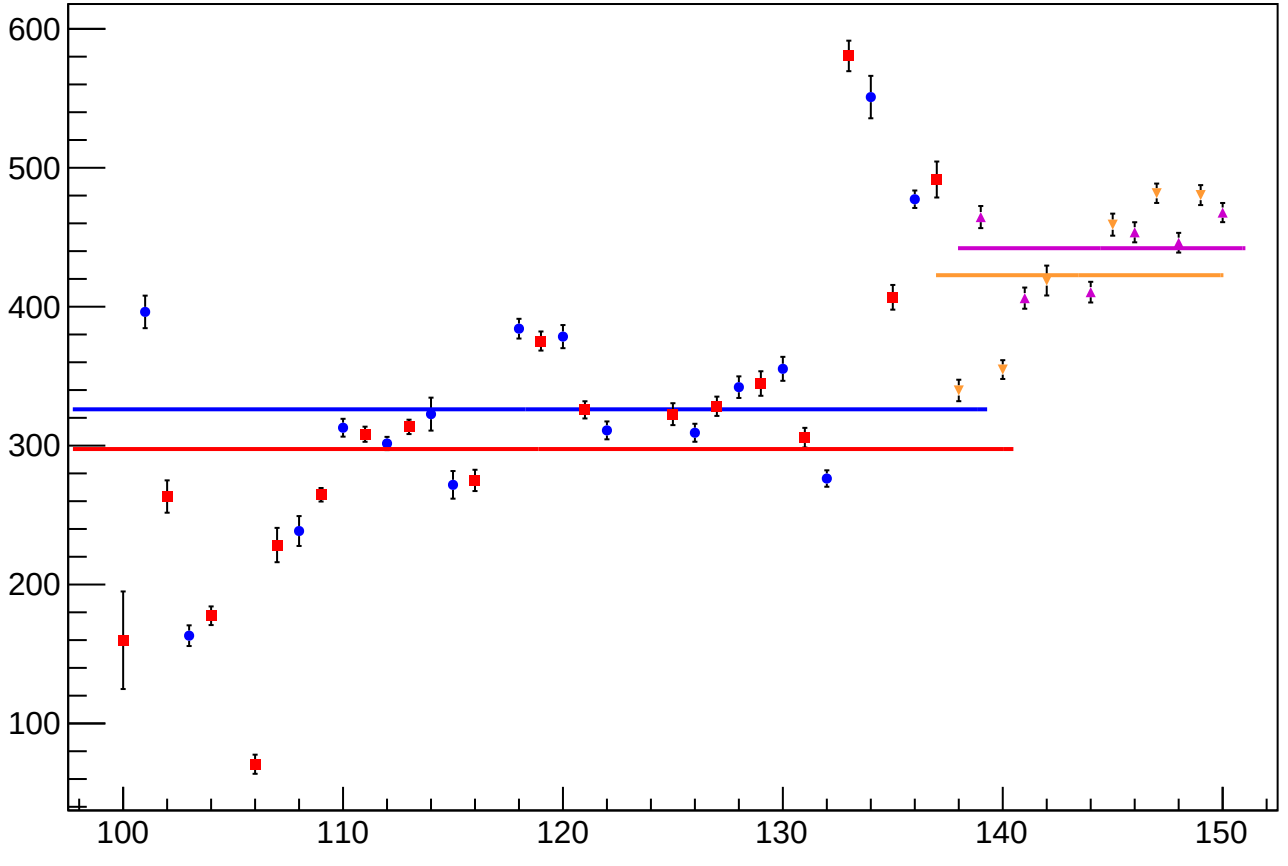
Right: -239.608+/-0.114 $\chi^2$/NDF: 751214.9/33

In: -305.548+/-0.121 $\chi^2$/NDF:158291.9/21

Out: -258.106+/-0.115 $\chi^2$/NDF:846589.8/23

All: -280.631+/-0.083 $\chi^2$/NDF: 1086051.6/45

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 326.133+/-1.857 $\chi^2$/NDF: 1642.9/15

Left Out: 422.679+/-3.115 $\chi^2$/NDF:373.1/5

Right Out: 297.538+/-1.735 $\chi^2$/NDF: 2775.4/17

Left In: 442.111+/-3.001 $\chi^2$/NDF:64.9/5

Left: 432.757+/-2.162 $\chi^2$/NDF: 458.2/11

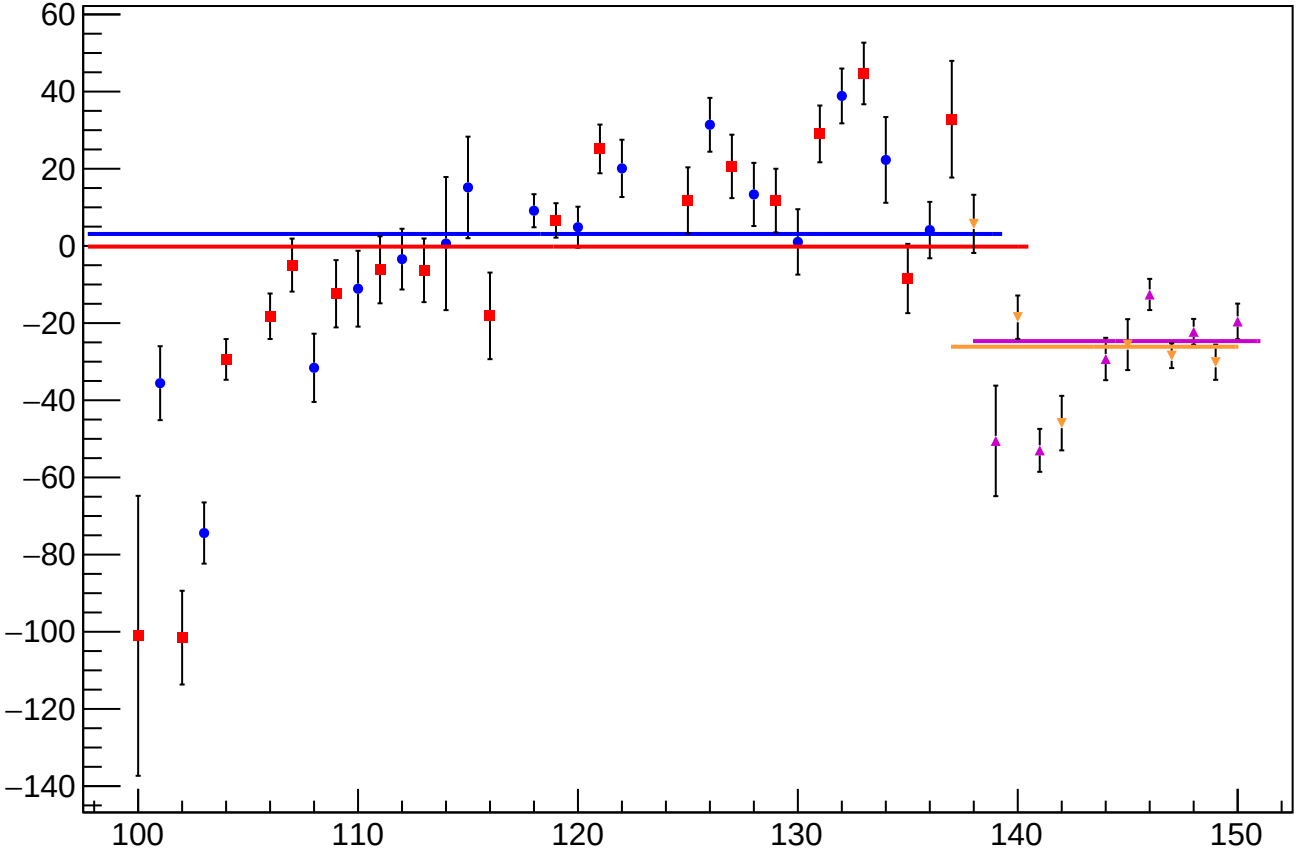
Right: 310.864+/-1.268 $\chi^2$/NDF: 4545.0/33

In: 358.233+/-1.579 $\chi^2$/NDF:2787.6/21

Out: 327.151+/-1.516 $\chi^2$/NDF:4380.2/23

All: 342.054+/-1.093 $\chi^2$/NDF: 7369.5/45

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 3.101+/-1.892 $\chi^2$/NDF: 184.5/15

Left Out: -26.131+/-2.051 $\chi^2$/NDF:28.9/5

Right Out: -0.180+/-1.791 $\chi^2$/NDF: 205.2/17

Left In: -24.667+/-1.932 $\chi^2$/NDF:40.5/5

Left: -25.355+/-1.406 $\chi^2$/NDF: 69.6/11

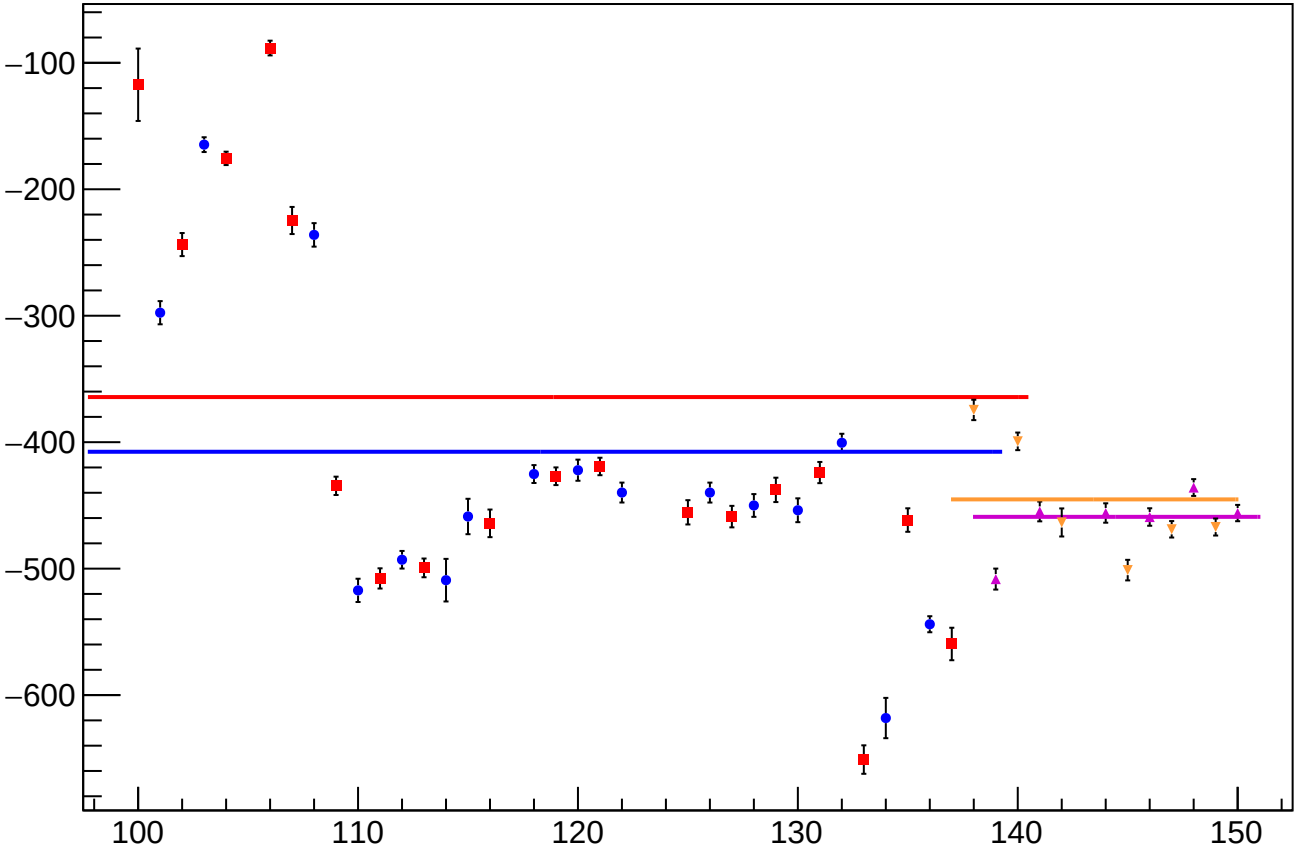
Right: 1.370+/-1.301 $\chi^2$/NDF: 391.3/33

In: -10.491+/-1.352 $\chi^2$/NDF:330.5/21

Out: -11.408+/-1.349 $\chi^2$/NDF:324.9/23

All: -10.951+/-0.955 $\chi^2$/NDF: 655.6/45

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -407.575+/-2.074 $\chi^2$/NDF: 3280.5/15

Left Out: -445.245+/-3.085 $\chi^2$/NDF:194.3/5

Right Out: -364.323+/-1.942 $\chi^2$/NDF: 6220.4/17

Left In: -459.043+/-2.942 $\chi^2$/NDF:48.1/5

Left: -452.470+/-2.129 $\chi^2$/NDF: 252.9/11

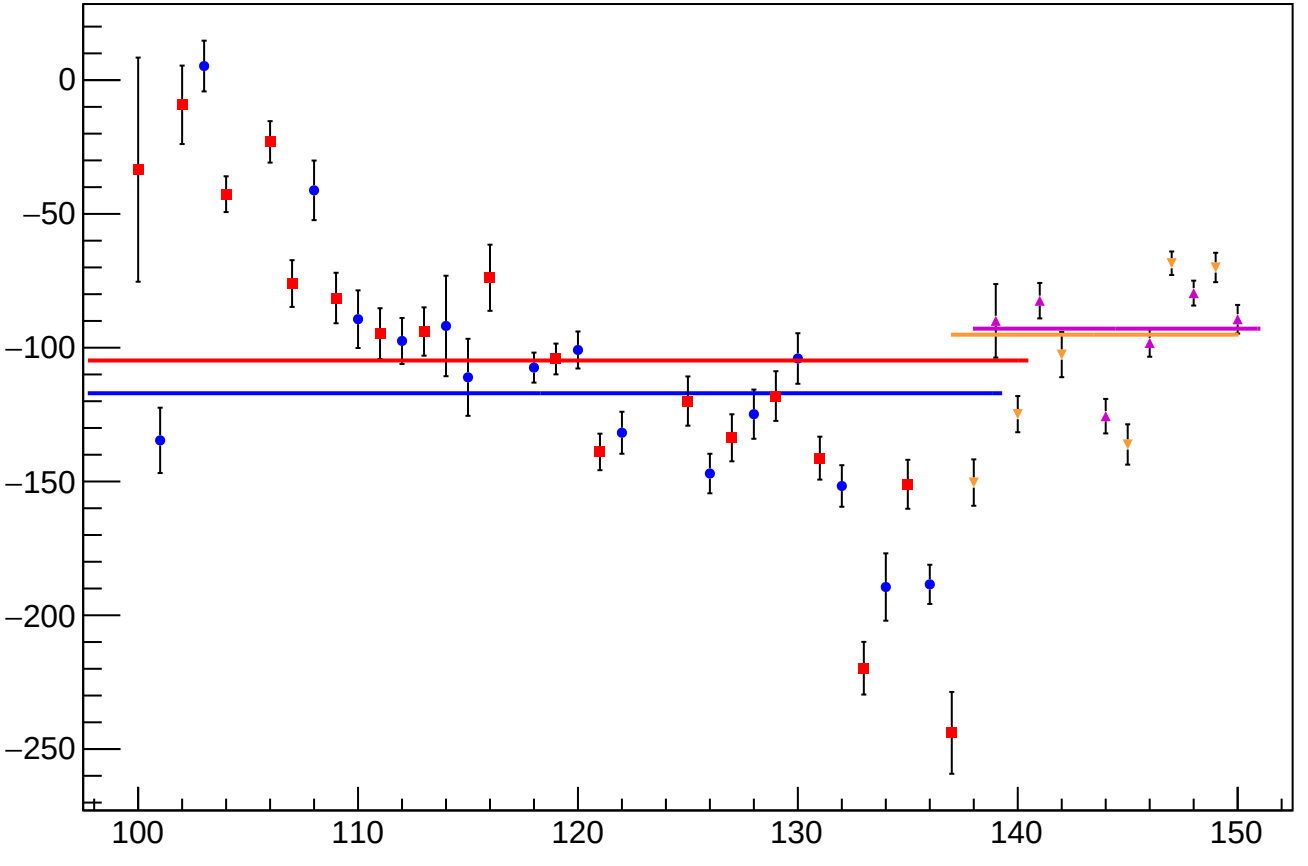
Right: -384.535+/-1.418 $\chi^2$/NDF: 9732.7/33

In: -424.657+/-1.695 $\chi^2$/NDF:3533.0/21

Out: -387.299+/-1.644 $\chi^2$/NDF:6907.5/23

All: -405.403+/-1.180 $\chi^2$/NDF: 10690.9/45

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -117.021+/-2.194 $\chi^2$/NDF: 407.8/15

Left Out: -95.132+/-2.568 $\chi^2$/NDF:148.1/5

Right Out: -104.780+/-2.091 $\chi^2$/NDF: 575.1/17

Left In: -92.880+/-2.418 $\chi^2$/NDF:38.0/5

Left: -93.939+/-1.760 $\chi^2$/NDF: 186.5/11

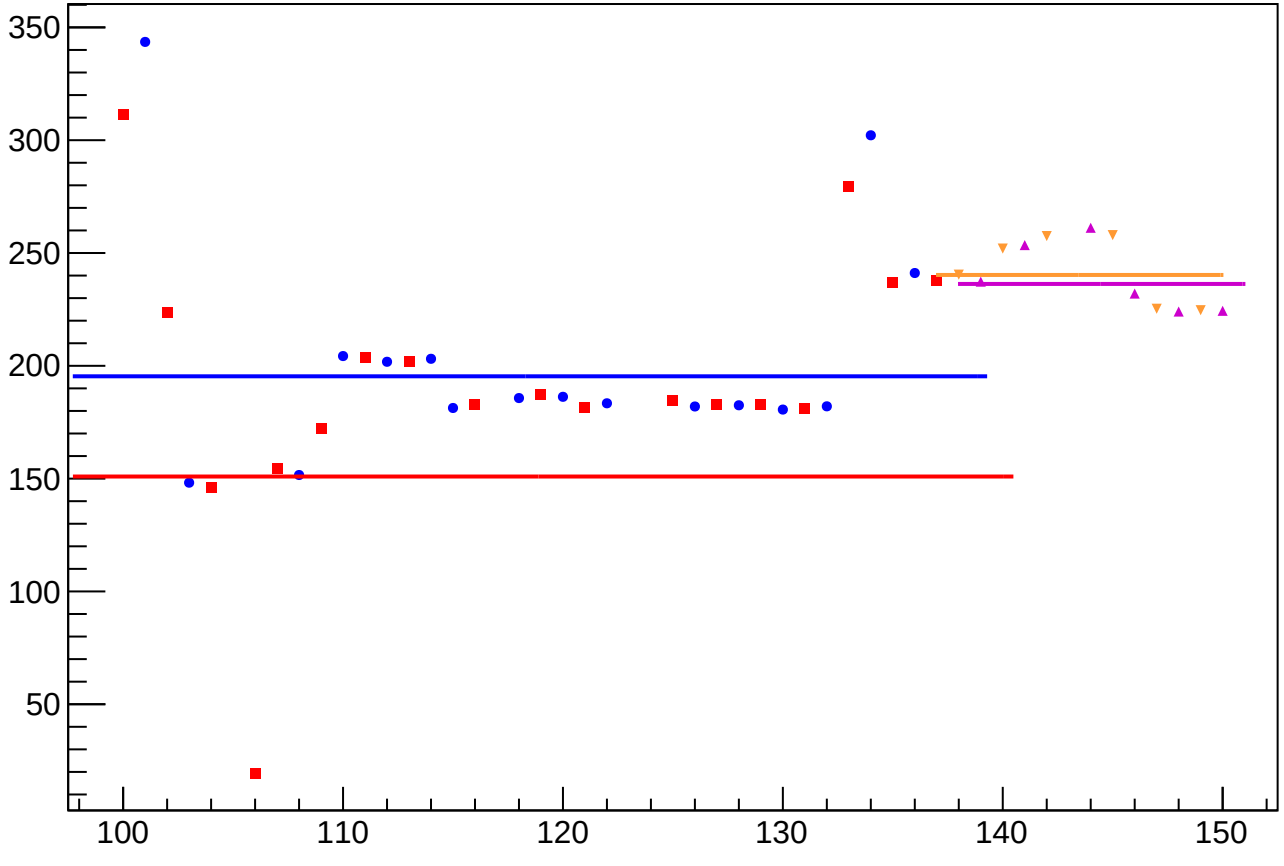
Right: -110.605+/-1.514 $\chi^2$/NDF: 999.2/33

In: -106.118+/-1.625 $\chi^2$/NDF:500.5/21

Out: -100.933+/-1.621 $\chi^2$/NDF:731.7/23

All: -103.519+/-1.148 $\chi^2$/NDF: 1237.3/45

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 195.351+/-0.125 $\chi^2$/NDF: 176975.5/15

Left Out: 240.272+/-0.130 $\chi^2$/NDF:11581.4/5

Right Out: 150.932+/-0.110 $\chi^2$/NDF: 499233.7/17

Left In: 236.288+/-0.120 $\chi^2$/NDF:12504.3/5

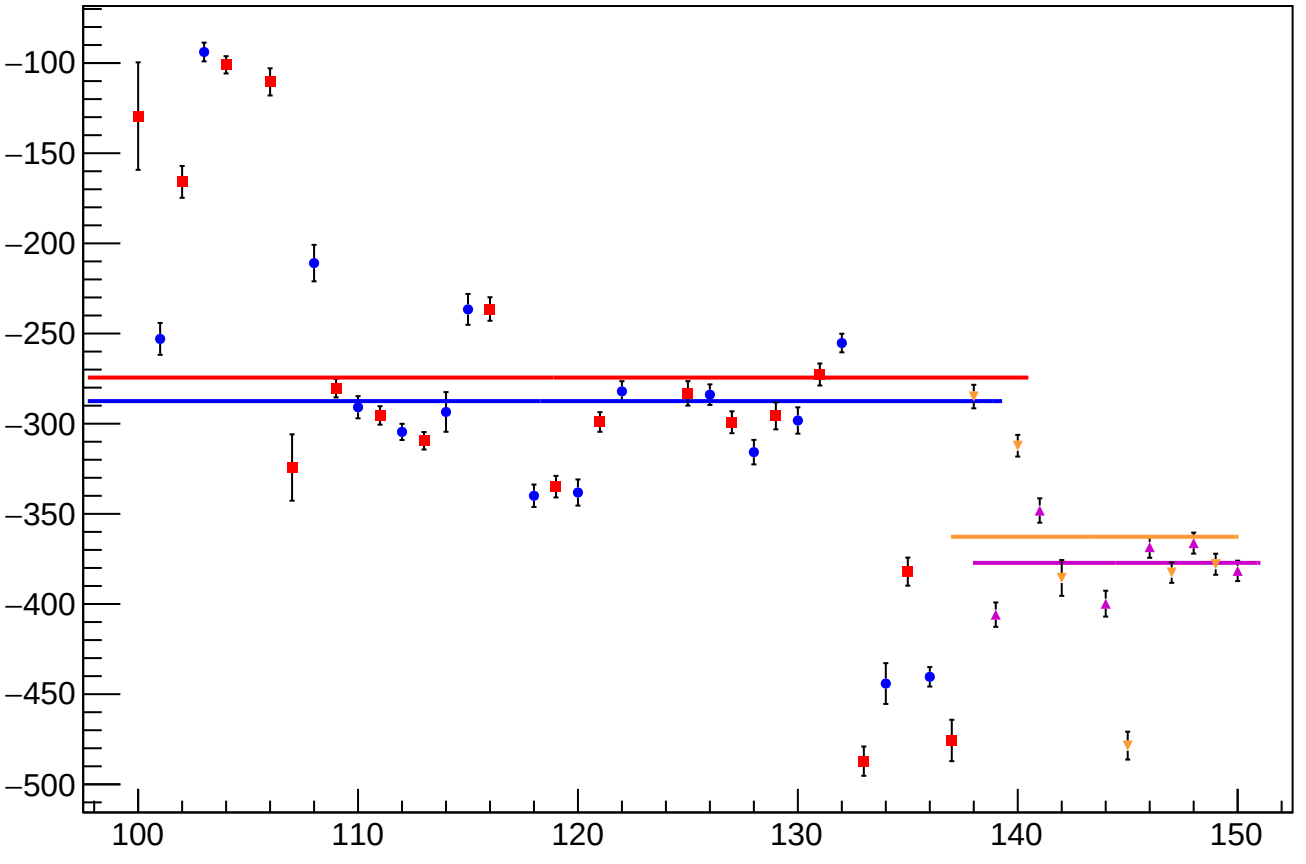
Left: 238.115+/-0.088 $\chi^2$/NDF: 24590.4/11

Right: 170.416+/-0.083 $\chi^2$/NDF: 747517.5/33

In: 216.577+/-0.086 $\chi^2$/NDF:245421.5/21

Out: 188.115+/-0.084 $\chi^2$/NDF:784515.1/23

All: 201.962+/-0.060 $\chi^2$/NDF: 1085553.5/45




Right In: -287.476+/-1.611 $\chi^2$/NDF: 2696.5/15

Left Out: -362.711+/-2.690 $\chi^2$/NDF:461.2/5

Right Out: -274.417+/-1.551 $\chi^2$/NDF: 3413.4/17

Left In: -377.177+/-2.560 $\chi^2$/NDF:52.8/5

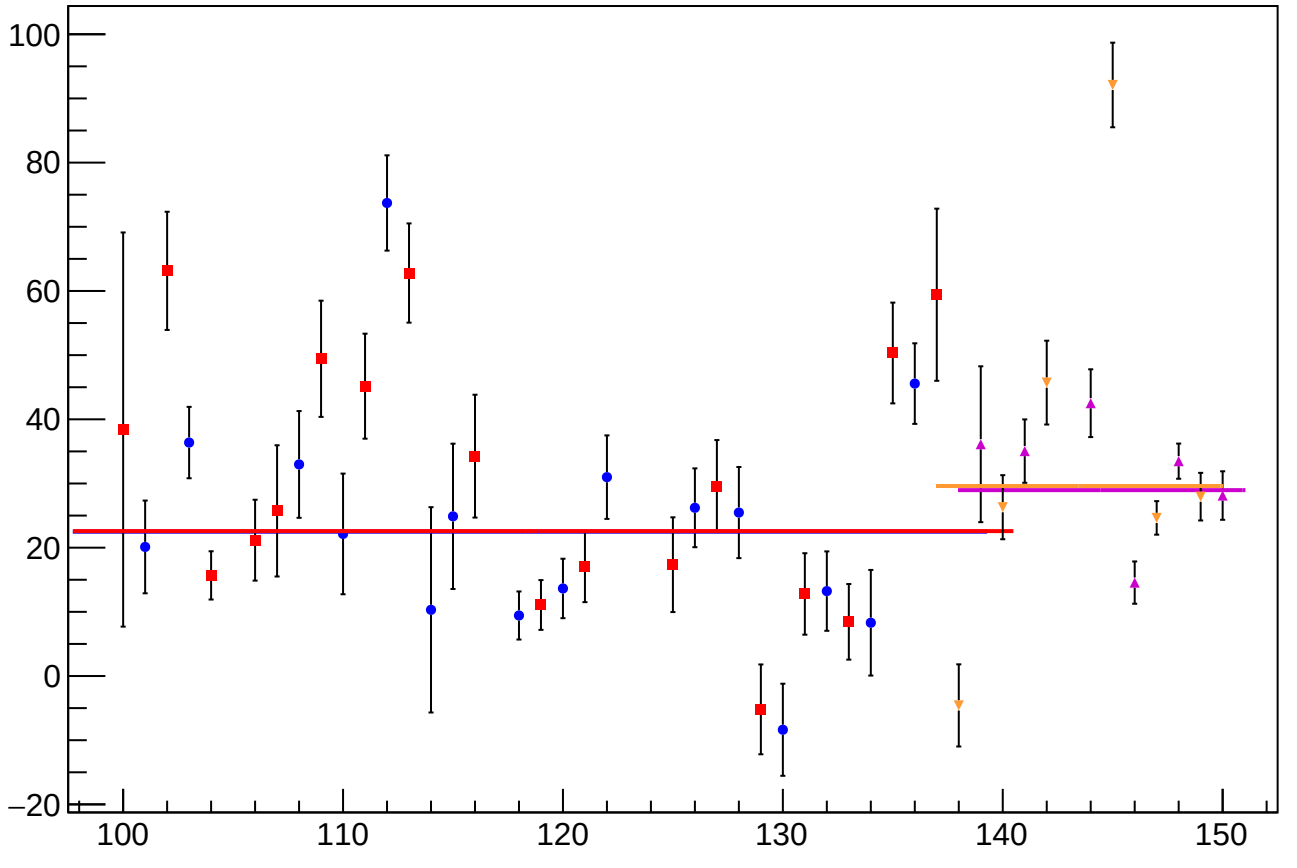
Left: -370.300+/-1.854 $\chi^2$/NDF: 529.2/11

Right: -280.699+/-1.118 $\chi^2$/NDF: 6144.0/33

In: -312.922+/-1.364 $\chi^2$/NDF:3628.5/21

Out: -296.459+/-1.344 $\chi^2$/NDF:4683.3/23

All: -304.570+/-0.957 $\chi^2$/NDF: 8385.7/45




Right In: 22.492+/-1.621 $\chi^2$/NDF: 111.4/15

Left Out: 29.610+/-1.741 $\chi^2$/NDF:128.7/5

Right Out: 22.580+/-1.570 $\chi^2$/NDF: 123.3/17

Left In: 28.963+/-1.625 $\chi^2$/NDF:30.3/5

Left: 29.264+/-1.188 $\chi^2$/NDF: 159.1/11

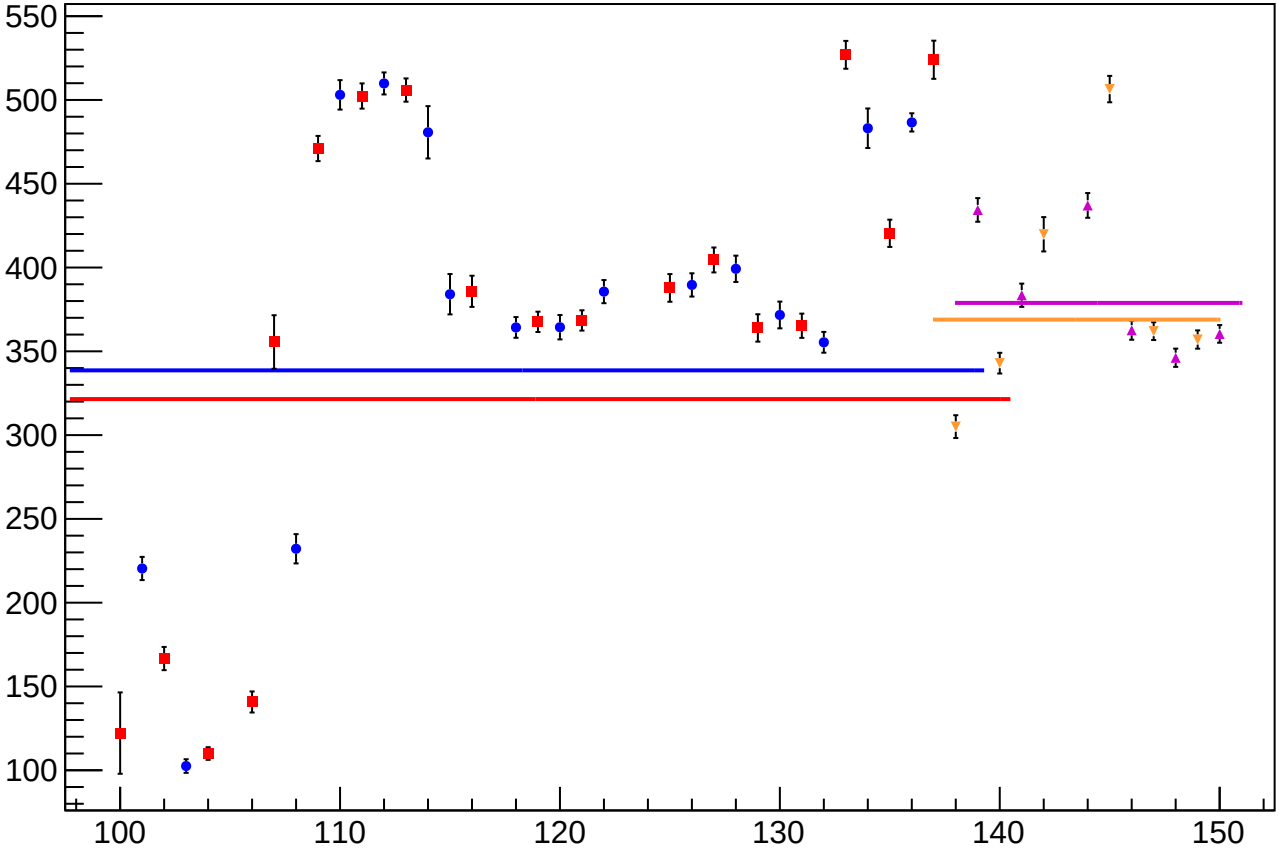
Right: 22.537+/-1.128 $\chi^2$/NDF: 234.8/33

In: 25.720+/-1.147 $\chi^2$/NDF:149.7/21

Out: 25.733+/-1.166 $\chi^2$/NDF:261.1/23

All: 25.726+/-0.818 $\chi^2$/NDF: 410.8/45

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 338.633+/-1.748 $\chi^2$/NDF: 6042.6/15

Left Out: 368.912+/-2.649 $\chi^2$/NDF:441.9/5

Right Out: 321.500+/-1.694 $\chi^2$/NDF: 7720.8/17

Left In: 378.893+/-2.500 $\chi^2$/NDF:181.1/5

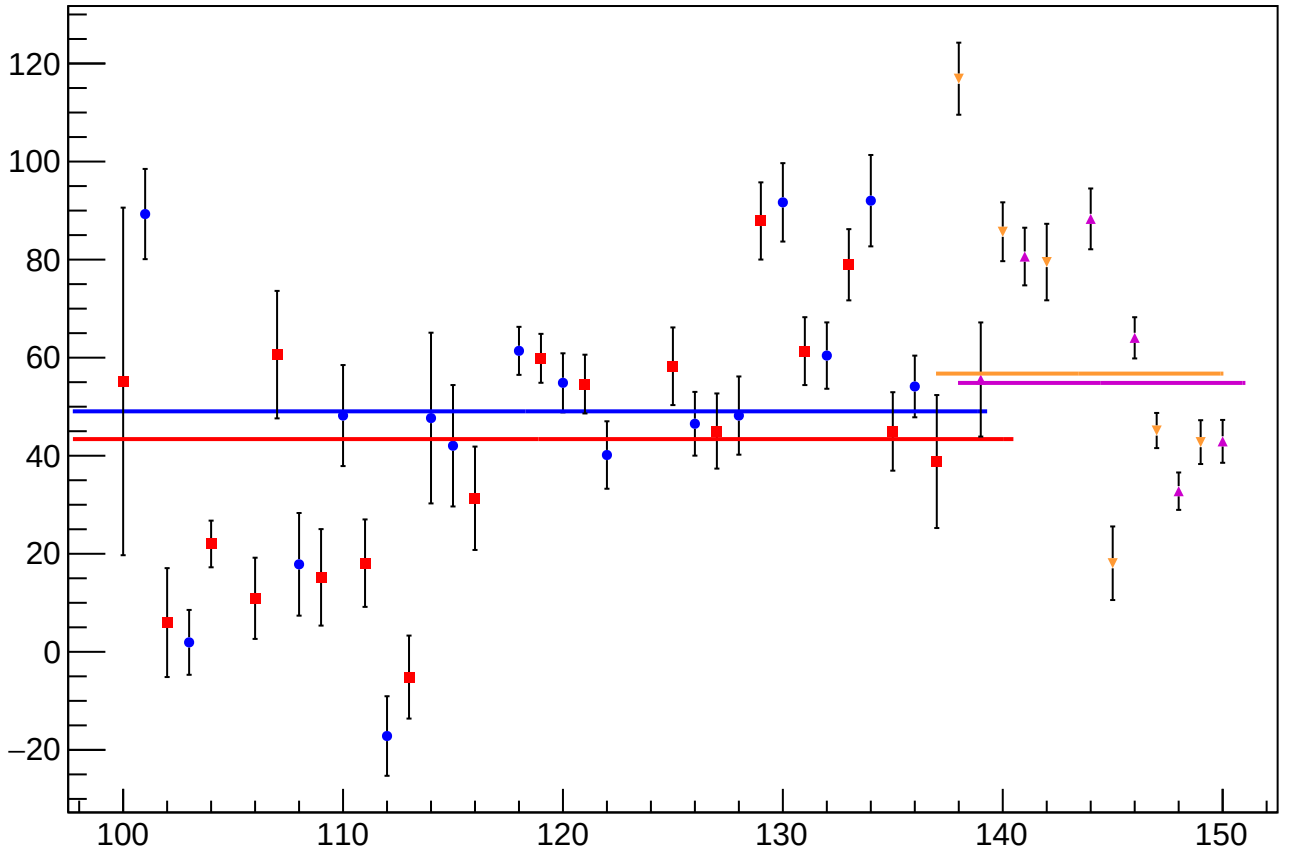
Left: 374.191+/-1.818 $\chi^2$/NDF: 630.5/11

Right: 329.797+/-1.217 $\chi^2$/NDF: 13813.0/33

In: 351.858+/-1.433 $\chi^2$/NDF:6397.9/21

Out: 335.265+/-1.427 $\chi^2$/NDF:8390.1/23

All: 343.530+/-1.011 $\chi^2$/NDF: 14855.3/45




Right In: 49.053+/-1.882 $\chi^2$/NDF: 207.9/15

Left Out: 56.752+/-2.191 $\chi^2$/NDF:145.5/5

Right Out: 43.392+/-1.834 $\chi^2$/NDF: 180.0/17

Left In: 54.849+/-2.041 $\chi^2$/NDF:94.1/5

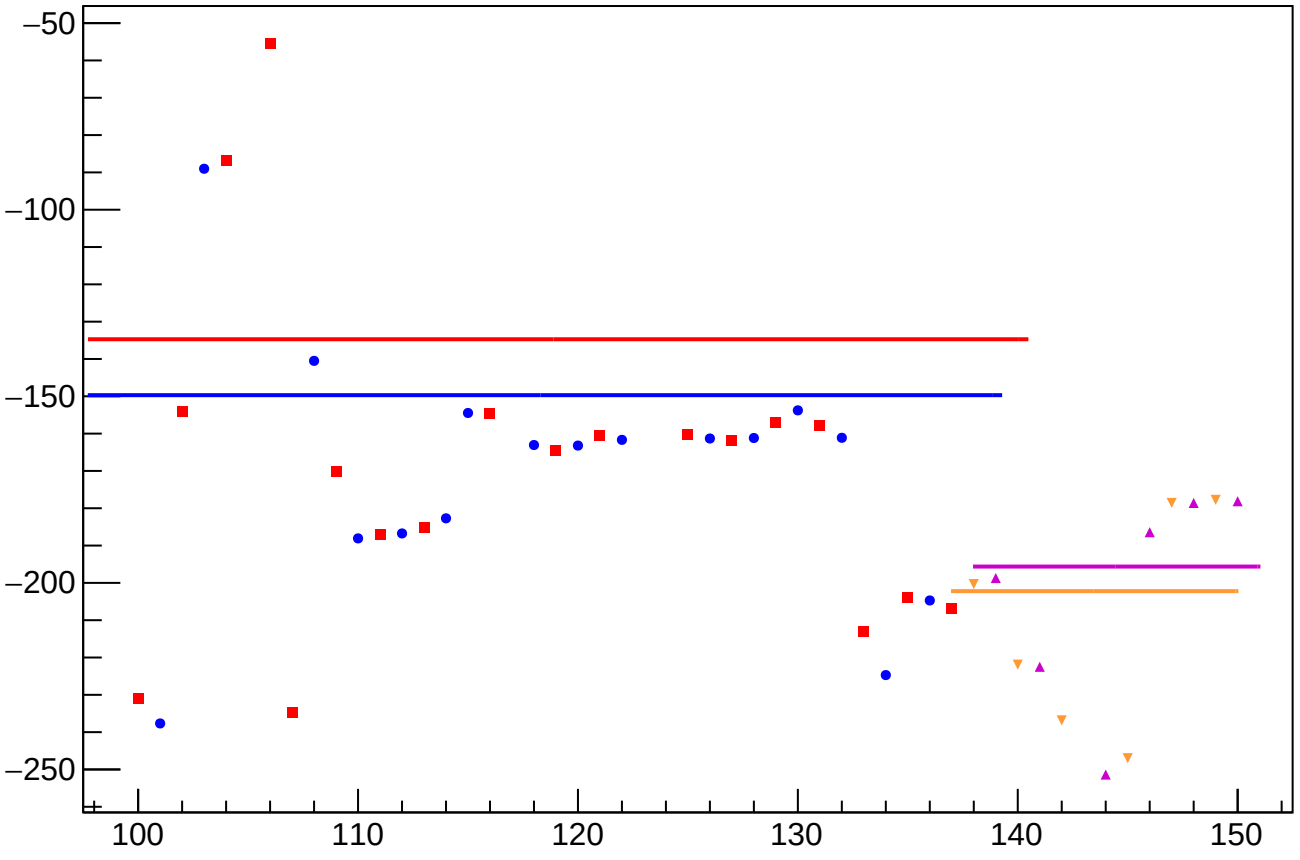
Left: 55.733+/-1.494 $\chi^2$/NDF: 240.0/11

Right: 46.149+/-1.314 $\chi^2$/NDF: 392.6/33

In: 51.717+/-1.384 $\chi^2$/NDF:306.4/21

Out: 48.896+/-1.406 $\chi^2$/NDF:347.4/23

All: 50.329+/-0.986 $\chi^2$/NDF: 655.8/45




Right In: -149.698+/-0.101 $\chi^2$/NDF: 256472.2/15

Left Out: -202.214+/-0.112 $\chi^2$/NDF:53907.9/5

Right Out: -134.715+/-0.097 $\chi^2$/NDF: 312639.8/17

Left In: -195.626+/-0.102 $\chi^2$/NDF:51445.6/5

Left: -198.598+/-0.075 $\chi^2$/NDF: 107244.0/11

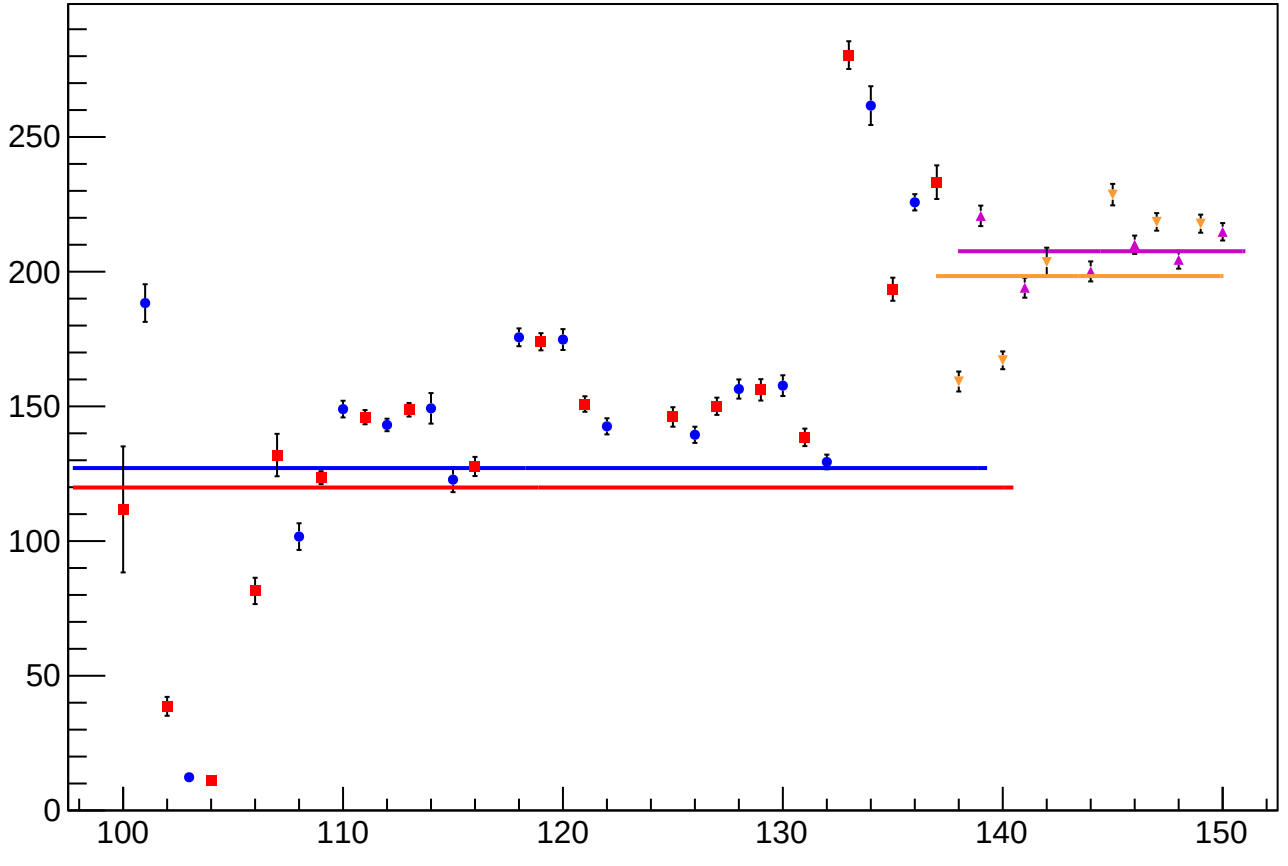
Right: -141.917+/-0.070 $\chi^2$/NDF: 580582.0/33

In: -172.450+/-0.072 $\chi^2$/NDF:410719.3/21

Out: -163.569+/-0.073 $\chi^2$/NDF:573560.2/23

All: -168.118+/-0.051 $\chi^2$/NDF: 991780.2/45

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 127.100+/-0.811 $\chi^2$/NDF: 6163.2/15

Left Out: 198.374+/-1.498 $\chi^2$/NDF:331.5/5

Right Out: 119.886+/-0.774 $\chi^2$/NDF: 6649.6/17

Left In: 207.591+/-1.433 $\chi^2$/NDF:35.6/5

Left: 203.186+/-1.035 $\chi^2$/NDF: 386.9/11

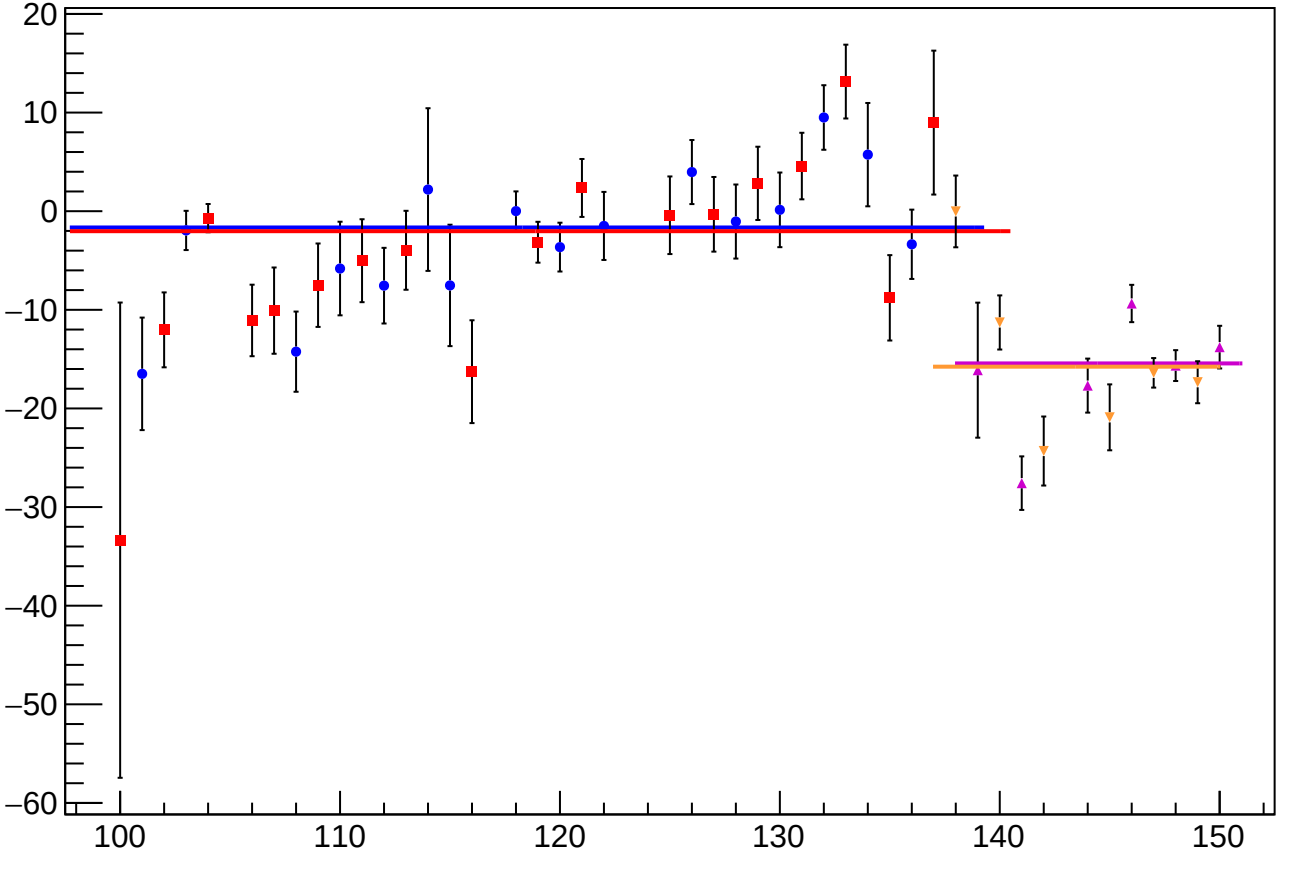
Right: 123.326+/-0.560 $\chi^2$/NDF: 12854.2/33

In: 146.624+/-0.706 $\chi^2$/NDF:8589.2/21

Out: 136.440+/-0.688 $\chi^2$/NDF:9148.7/23

All: 141.401+/-0.493 $\chi^2$/NDF: 17844.8/45

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -1.651+/-0.833 $\chi^2$/NDF: 39.1/15

Left Out: -15.765+/-0.978 $\chi^2$/NDF:30.5/5

Right Out: -2.027+/-0.770 $\chi^2$/NDF: 58.6/17

Left In: -15.435+/-0.916 $\chi^2$/NDF:31.6/5

Left: -15.589+/-0.668 $\chi^2$/NDF: 62.1/11

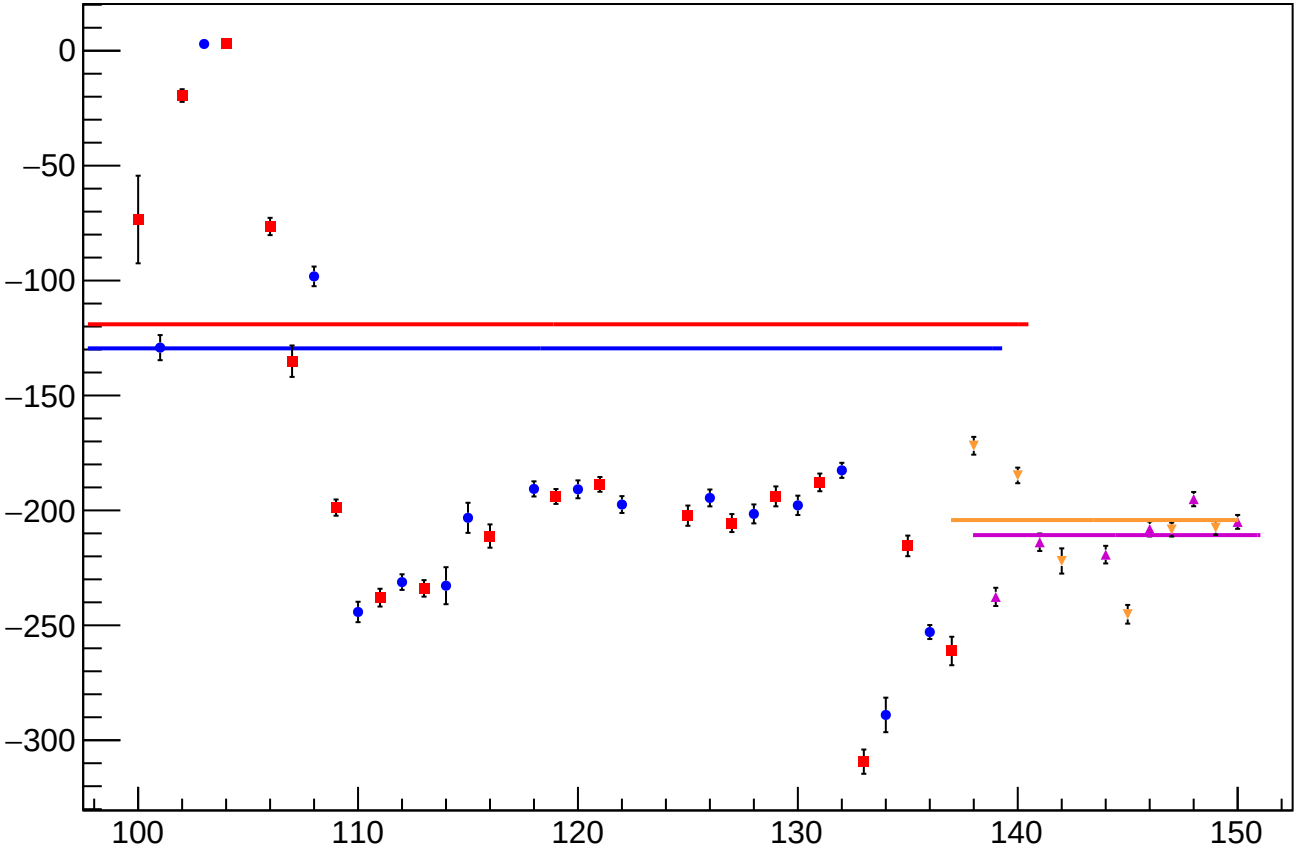
Right: -1.854+/-0.565 $\chi^2$/NDF: 97.8/33

In: -7.889+/-0.616 $\chi^2$/NDF:194.7/21

Out: -7.289+/-0.605 $\chi^2$/NDF:210.9/23

All: -7.583+/-0.432 $\chi^2$/NDF: 406.0/45

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -129.497+/-0.846 $\chi^2$/NDF: 14687.9/15

Left Out: -204.201+/-1.479 $\chi^2$/NDF:217.3/5

Right Out: -119.022+/-0.813 $\chi^2$/NDF: 16177.3/17

Left In: -210.750+/-1.402 $\chi^2$/NDF:81.2/5

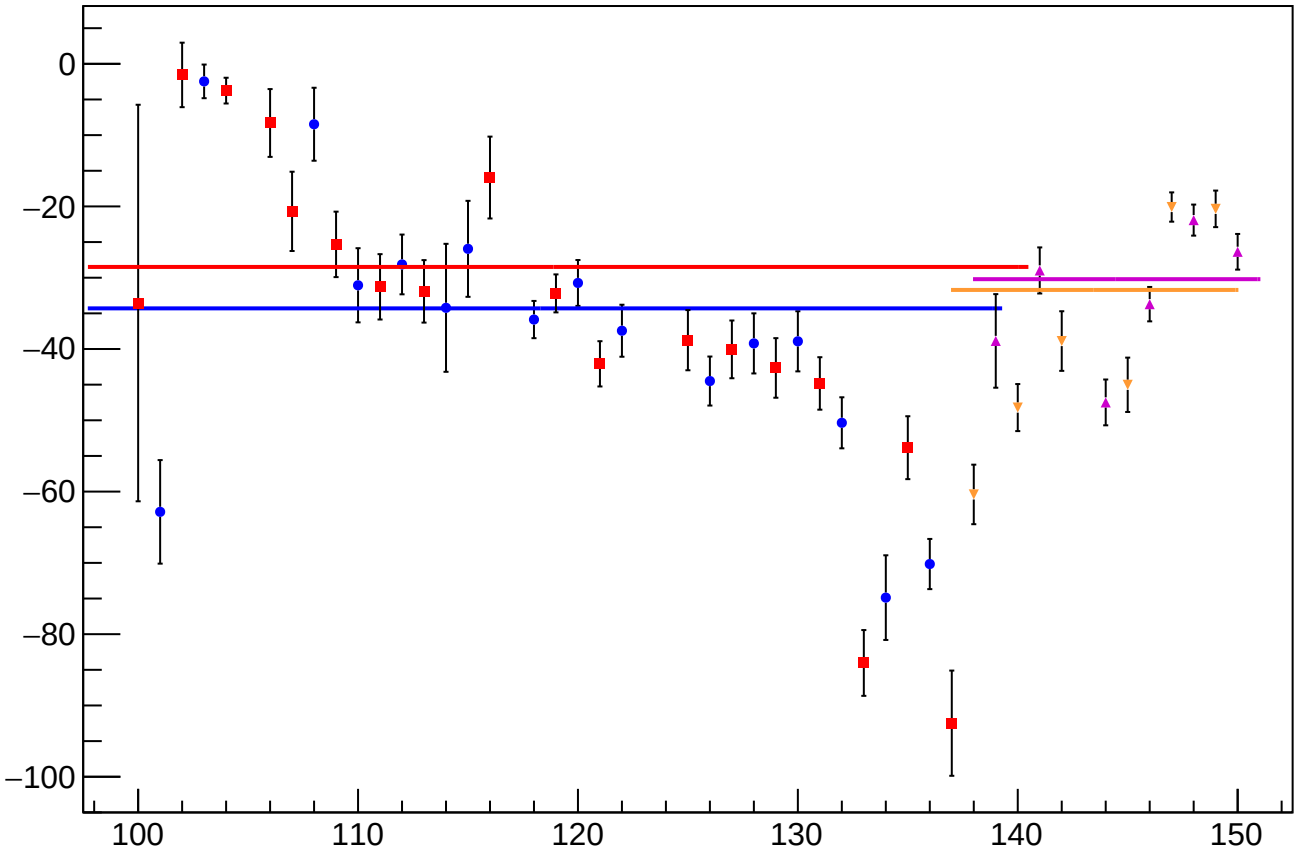
Left: -207.650+/-1.017 $\chi^2$/NDF: 308.8/11

Right: -124.047+/-0.586 $\chi^2$/NDF: 30944.8/33

In: -151.203+/-0.725 $\chi^2$/NDF:17231.0/21

Out: -138.783+/-0.712 $\chi^2$/NDF:18942.5/23

All: -144.887+/-0.508 $\chi^2$/NDF: 36322.9/45




Right In: -34.301+/-0.968 $\chi^2$/NDF: 411.3/15

Left Out: -31.714+/-1.227 $\chi^2$/NDF:139.1/5

Right Out: -28.488+/-0.907 $\chi^2$/NDF: 568.0/17

Left In: -30.205+/-1.148 $\chi^2$/NDF:49.8/5

Left: -30.910+/-0.838 $\chi^2$/NDF: 189.6/11

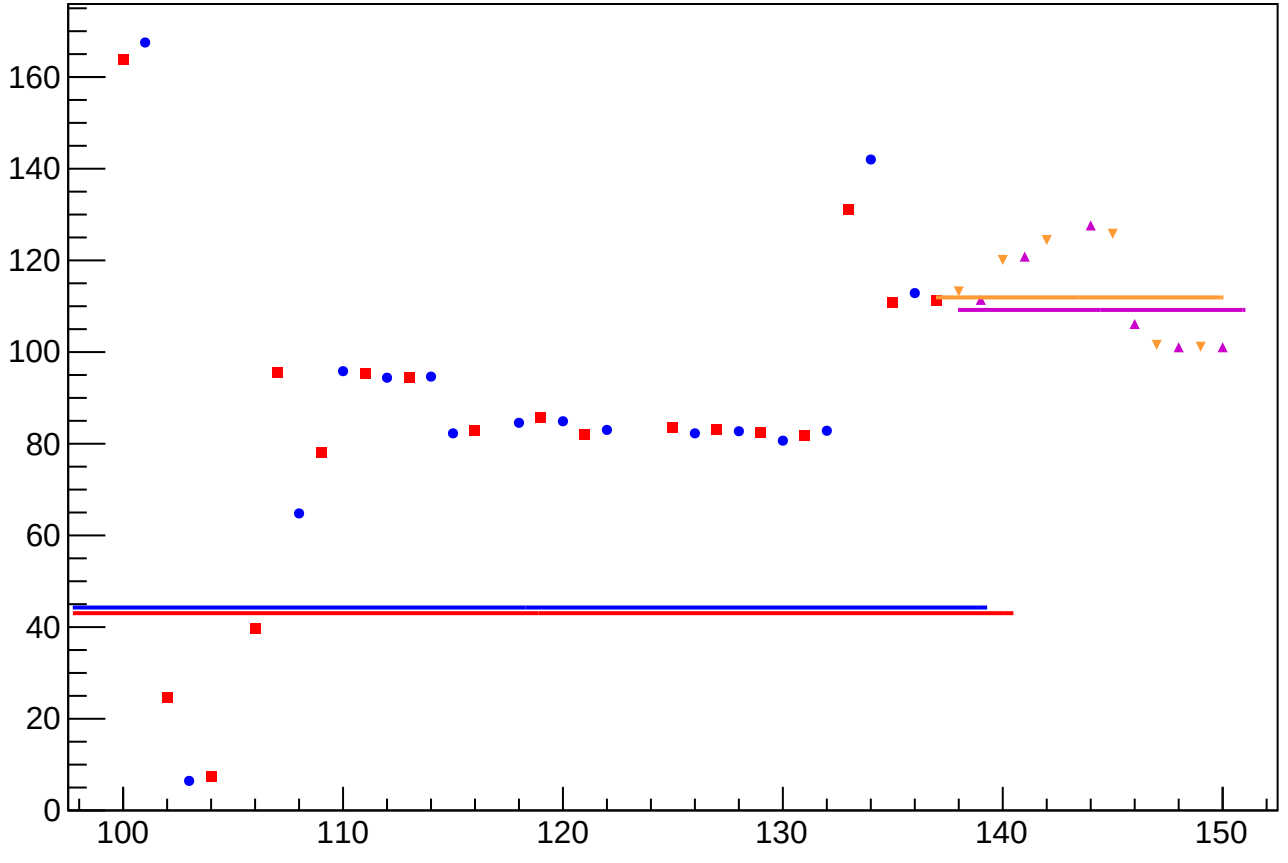
Right: -31.206+/-0.662 $\chi^2$/NDF: 998.5/33

In: -32.600+/-0.740 $\chi^2$/NDF:468.5/21

Out: -29.628+/-0.729 $\chi^2$/NDF:711.6/23

All: -31.092+/-0.519 $\chi^2$/NDF: 1188.3/45

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 44.274+/-0.045 $\chi^2$/NDF: 1085082.2/15

Left Out: 111.922+/-0.063 $\chi^2$/NDF:25983.1/5

Right Out: 43.035+/-0.045 $\chi^2$/NDF: 805108.5/17

Left In: 109.195+/-0.057 $\chi^2$/NDF:26439.8/5

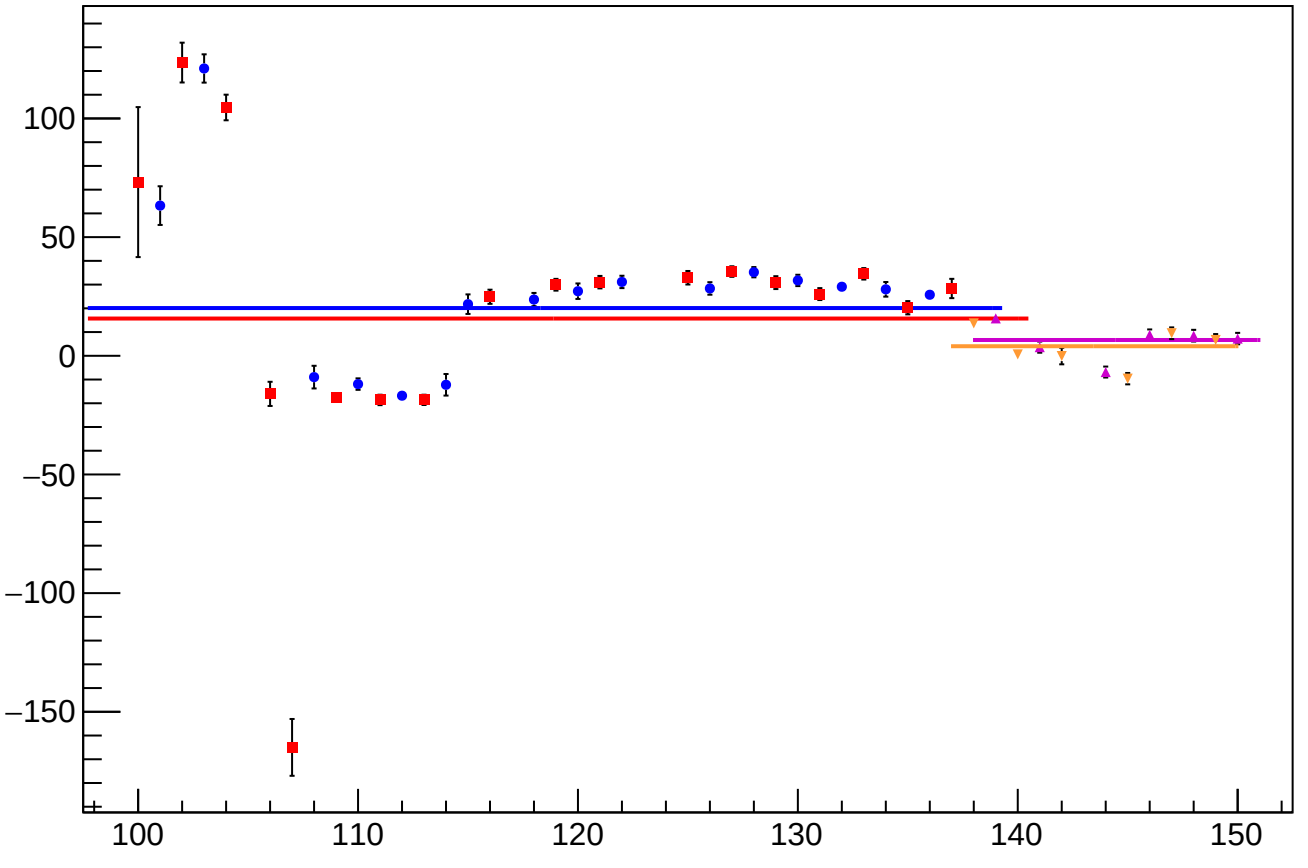
Left: 110.436+/-0.042 $\chi^2$/NDF: 53458.1/11

Right: 43.656+/-0.032 $\chi^2$/NDF: 1890570.2/33

In: 69.072+/-0.035 $\chi^2$/NDF:1908619.5/21

Out: 66.535+/-0.037 $\chi^2$/NDF:1629260.0/23

All: 67.847+/-0.025 $\chi^2$/NDF: 3540370.5/45




Right In: 20.117+/-0.687 $\chi^2$/NDF: 1048.1/15

Left Out: 4.030+/-0.979 $\chi^2$/NDF:63.9/5

Right Out: 15.700+/-0.682 $\chi^2$/NDF: 1773.8/17

Left In: 6.659+/-0.934 $\chi^2$/NDF:58.0/5

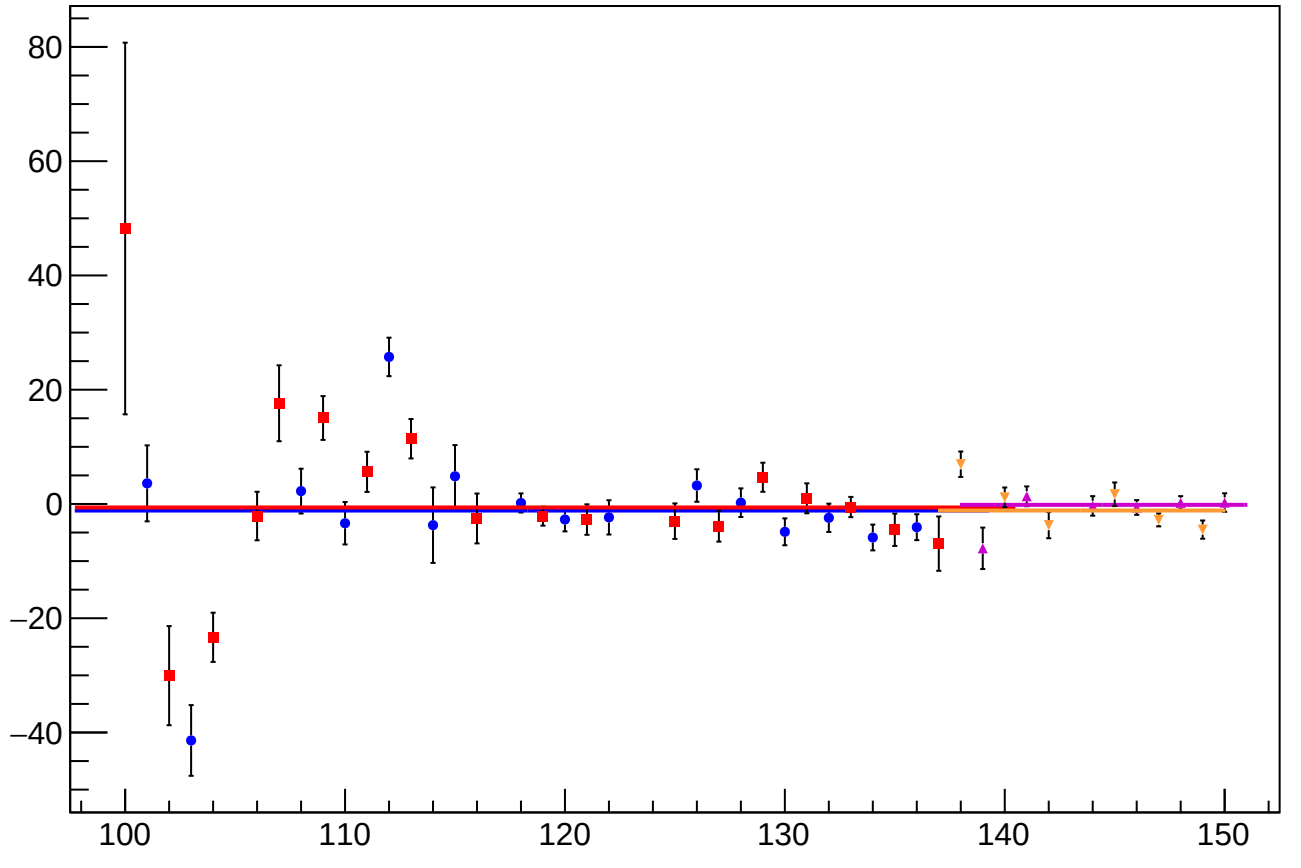
Left: 5.407+/-0.676 $\chi^2$/NDF: 125.7/11

Right: 17.893+/-0.484 $\chi^2$/NDF: 2842.7/33

In: 15.392+/-0.553 $\chi^2$/NDF:1240.8/21

Out: 11.889+/-0.560 $\chi^2$/NDF:1933.3/23

All: 13.660+/-0.394 $\chi^2$/NDF: 3194.0/45




Right In: -1.151+/-0.699 $\chi^2$/NDF: 121.8/15

Left Out: -1.146+/-0.687 $\chi^2$/NDF:24.6/5

Right Out: -0.614+/-0.713 $\chi^2$/NDF: 93.4/17

Left In: -0.154+/-0.637 $\chi^2$/NDF:5.4/5

Left: -0.613+/-0.467 $\chi^2$/NDF: 31.2/11

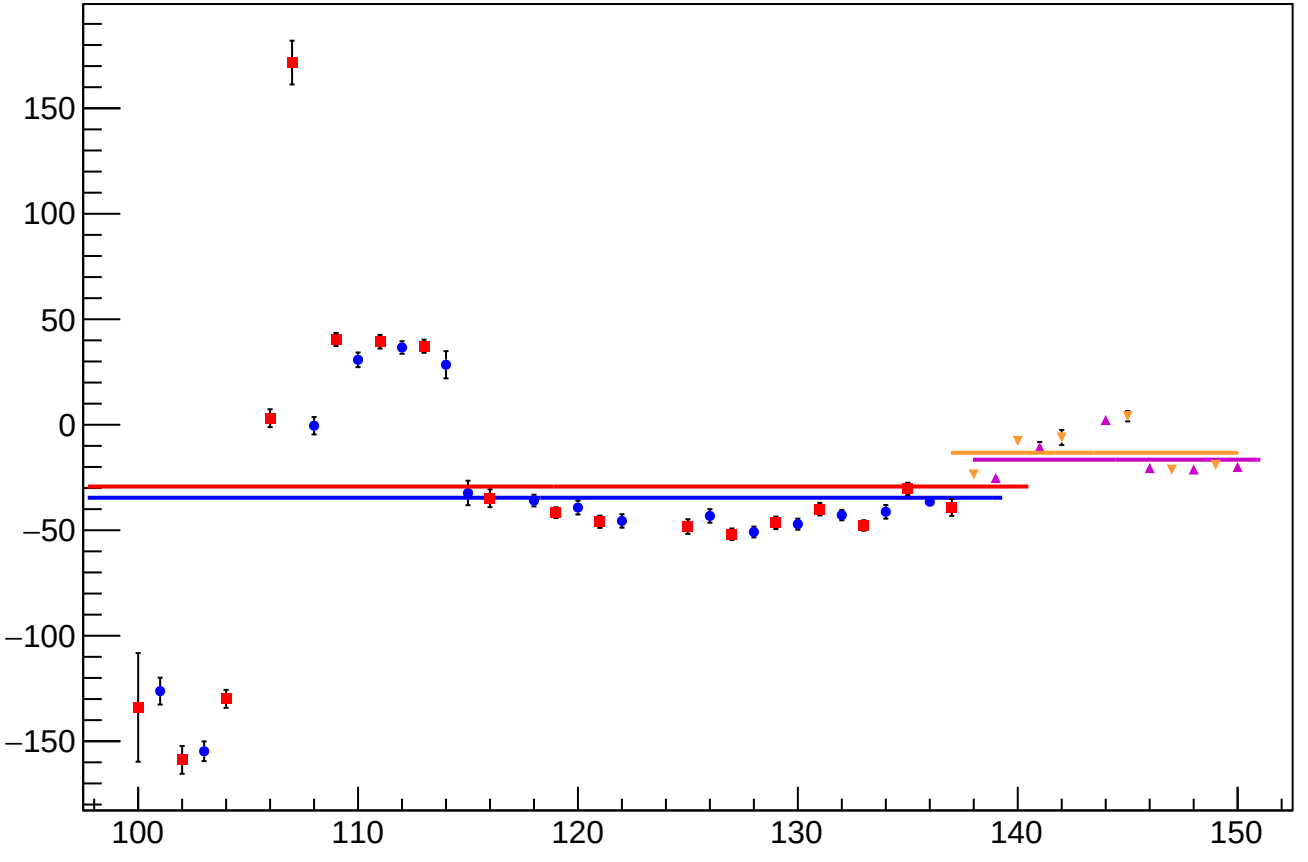
Right: -0.888+/-0.499 $\chi^2$/NDF: 215.5/33

In: -0.606+/-0.471 $\chi^2$/NDF:128.4/21

Out: -0.890+/-0.495 $\chi^2$/NDF:118.2/23

All: -0.741+/-0.341 $\chi^2$/NDF: 246.8/45

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -34.598+/-0.786 $\chi^2$/NDF: 2058.4/15

Left Out: -13.295+/-0.977 $\chi^2$/NDF:101.6/5

Right Out: -29.277+/-0.800 $\chi^2$/NDF: 3081.1/17

Left In: -16.547+/-0.924 $\chi^2$/NDF:95.7/5

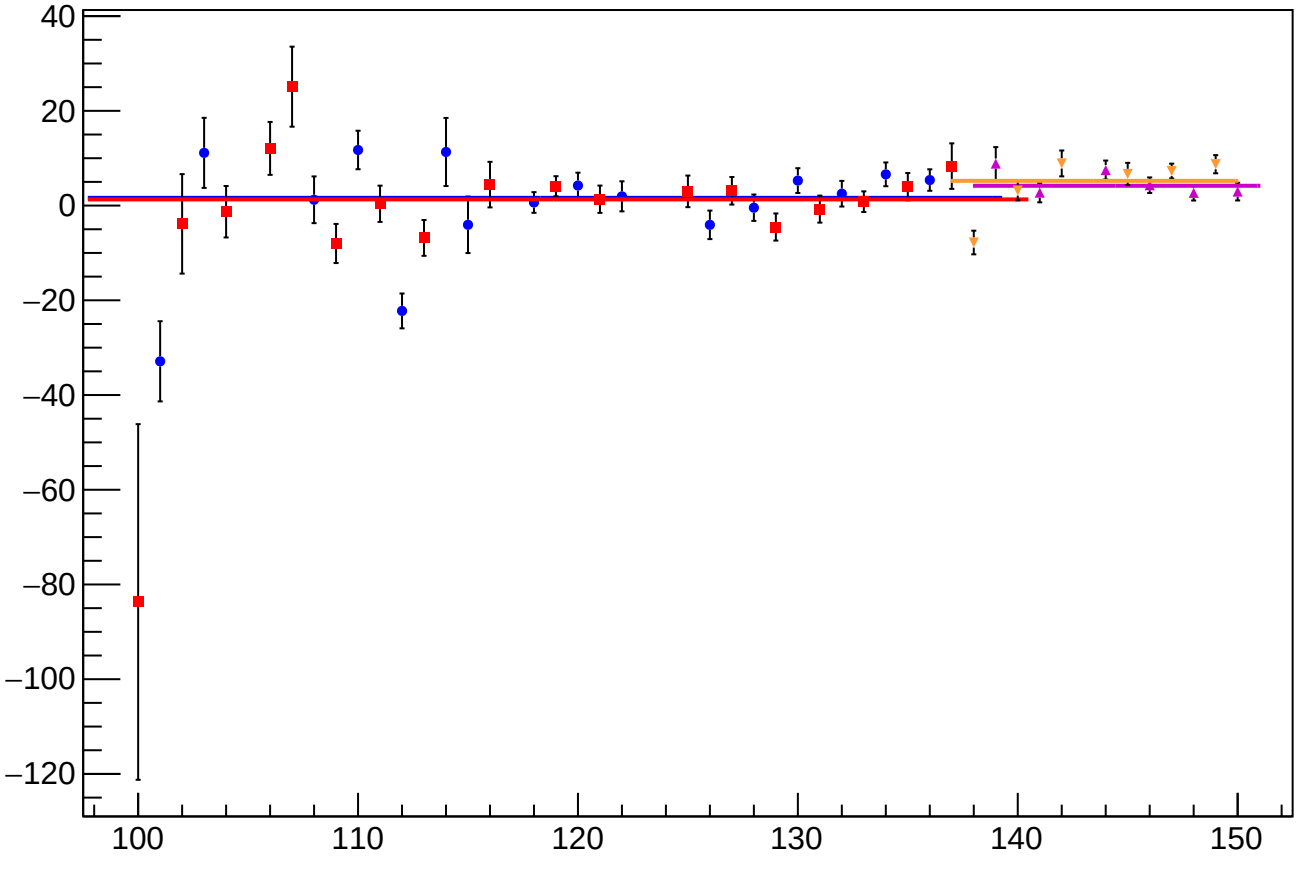
Left: -15.013+/-0.671 $\chi^2$/NDF: 203.2/11

Right: -31.983+/-0.561 $\chi^2$/NDF: 5162.0/33

In: -27.015+/-0.599 $\chi^2$/NDF:2375.6/21

Out: -22.866+/-0.619 $\chi^2$/NDF:3342.9/23

All: -25.009+/-0.430 $\chi^2$/NDF: 5741.7/45




Right In: 1.630+/-0.797 $\chi^2$/NDF: 83.3/15

Left Out: 5.223+/-0.848 $\chi^2$/NDF:35.5/5

Right Out: 1.298+/-0.817 $\chi^2$/NDF: 37.5/17

Left In: 4.181+/-0.789 $\chi^2$/NDF:6.4/5

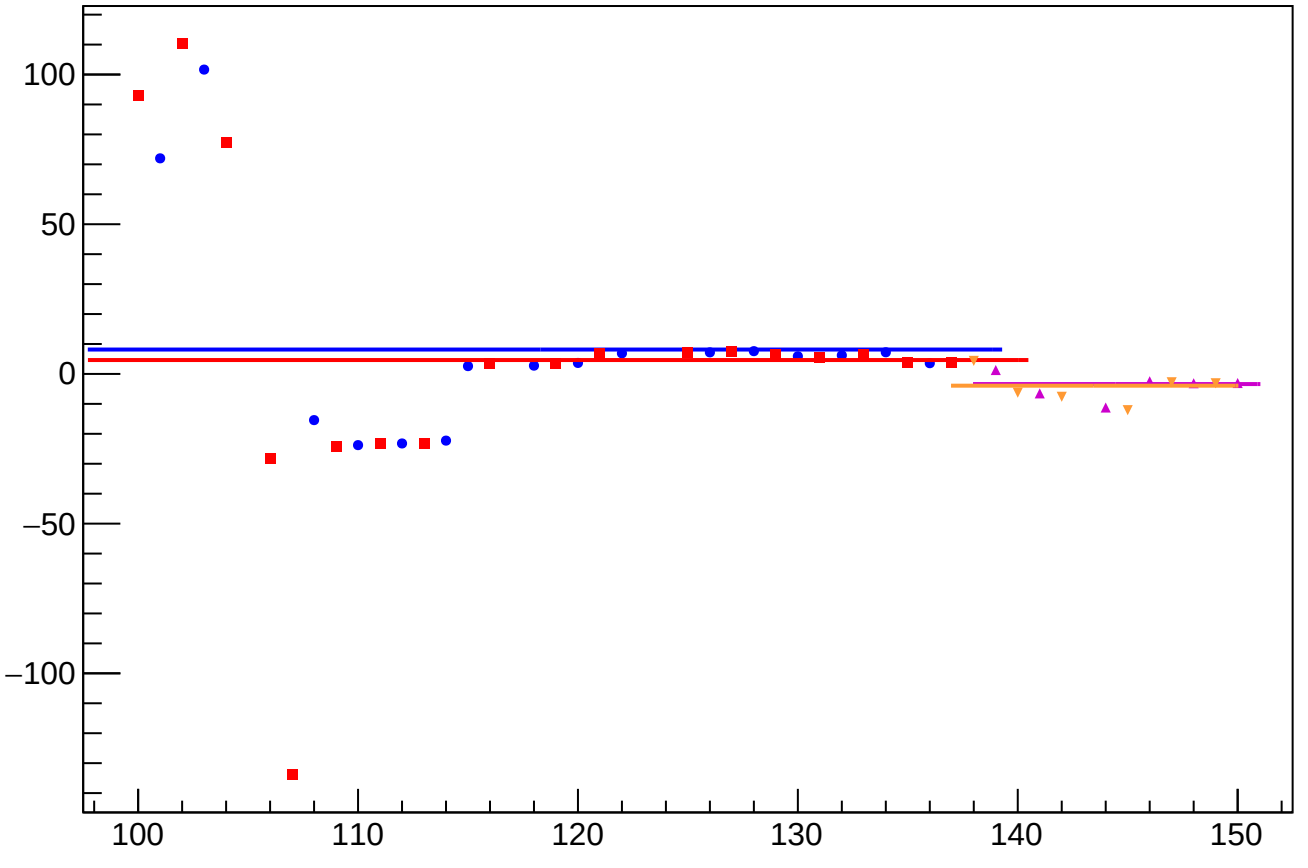
Left: 4.665+/-0.577 $\chi^2$/NDF: 42.7/11

Right: 1.468+/-0.570 $\chi^2$/NDF: 120.9/33

In: 2.919+/-0.561 $\chi^2$/NDF:94.8/21

Out: 3.188+/-0.588 $\chi^2$/NDF:84.2/23

All: 3.047+/-0.406 $\chi^2$/NDF: 179.1/45




Right In: 8.146+/-0.048 $\chi^2$/NDF: 313350.7/15

Left Out: -3.925+/-0.041 $\chi^2$/NDF:18008.9/5

Right Out: 4.638+/-0.052 $\chi^2$/NDF: 446805.7/17

Left In: -3.385+/-0.037 $\chi^2$/NDF:10510.1/5

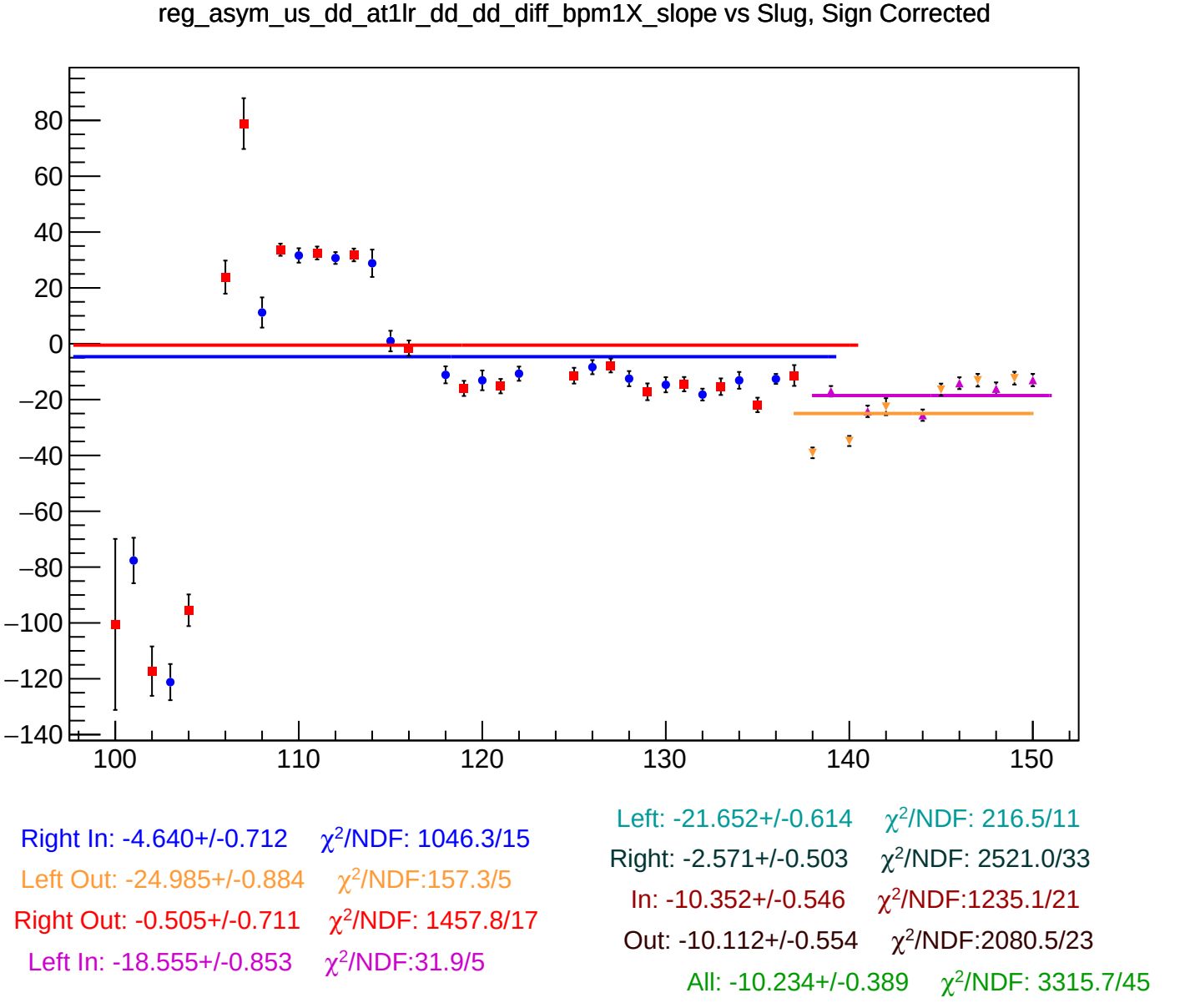
Left: -3.631+/-0.027 $\chi^2$/NDF: 28614.8/11

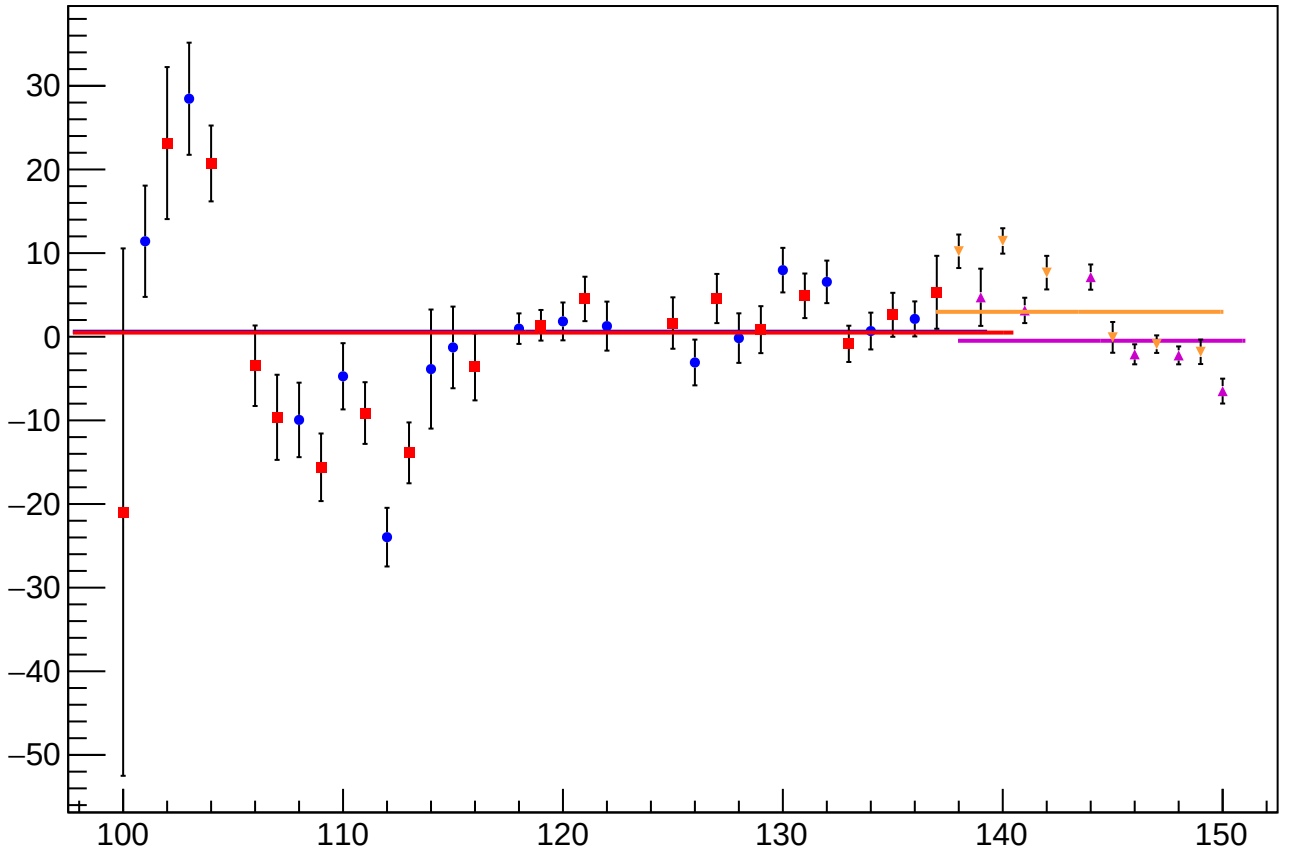
Right: 6.508+/-0.035 $\chi^2$/NDF: 762611.1/33

In: 0.910+/-0.030 $\chi^2$/NDF:359517.5/21

Out: -0.646+/-0.032 $\chi^2$/NDF:481751.8/23

All: 0.195+/-0.022 $\chi^2$/NDF: 842547.6/45


reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
100
110
120
130
140
150
Right In: -4.640+/-0.712 χ²/NDF: 1046.3/15
Left Out: -24.985+/-0.884 χ²/NDF:157.3/5
Right Out: -0.505+/-0.711 χ²/NDF: 1457.8/17
Left In: -18.555+/-0.853 χ²/NDF:31.9/5
Left: -21.652+/-0.614 χ²/NDF: 216.5/11
Right: -2.571+/-0.503 χ²/NDF: 2521.0/33
In: -10.352+/-0.546 χ²/NDF:1235.1/21
Out: -10.112+/-0.554 χ²/NDF:2080.5/23
All: -10.234+/-0.389 χ²/NDF: 3315.7/45




Right In: 0.602+/-0.727 $\chi^2$/NDF: 92.9/15

Left Out: 2.980+/-0.620 $\chi^2$/NDF:76.6/5

Right Out: 0.496+/-0.755 $\chi^2$/NDF: 80.2/17

Left In: -0.480+/-0.579 $\chi^2$/NDF:54.4/5

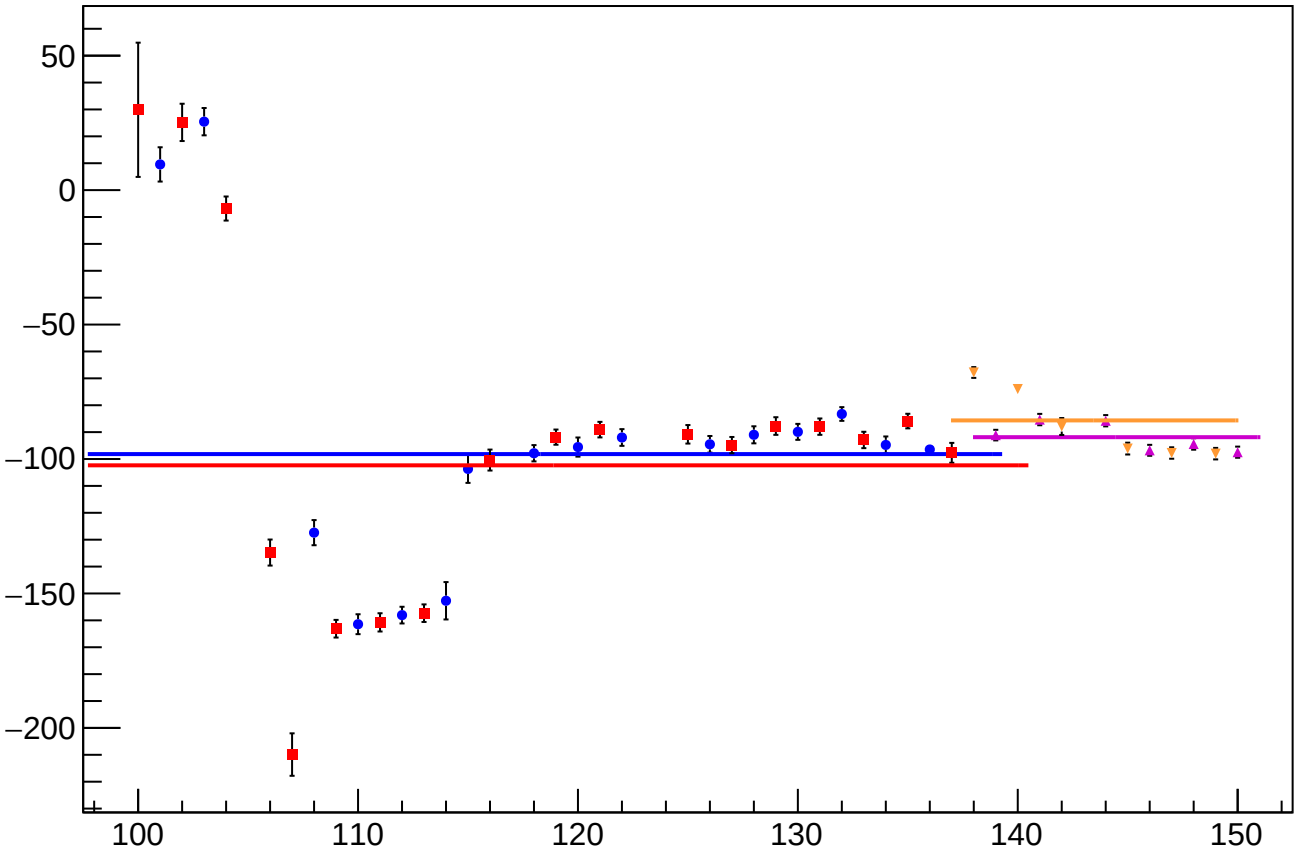
Left: 1.132+/-0.423 $\chi^2$/NDF: 147.7/11

Right: 0.551+/-0.524 $\chi^2$/NDF: 173.0/33

In: -0.060+/-0.453 $\chi^2$/NDF:148.6/21

Out: 1.979+/-0.479 $\chi^2$/NDF:163.3/23

All: 0.902+/-0.329 $\chi^2$/NDF: 321.4/45




Right In: -98.168+/-0.813 $\chi^2$/NDF: 1699.9/15

Left Out: -85.644+/-0.884 $\chi^2$/NDF:206.7/5

Right Out: -102.349+/-0.837 $\chi^2$/NDF: 2117.5/17

Left In: -91.879+/-0.844 $\chi^2$/NDF:32.7/5

Left: -88.906+/-0.610 $\chi^2$/NDF: 265.4/11

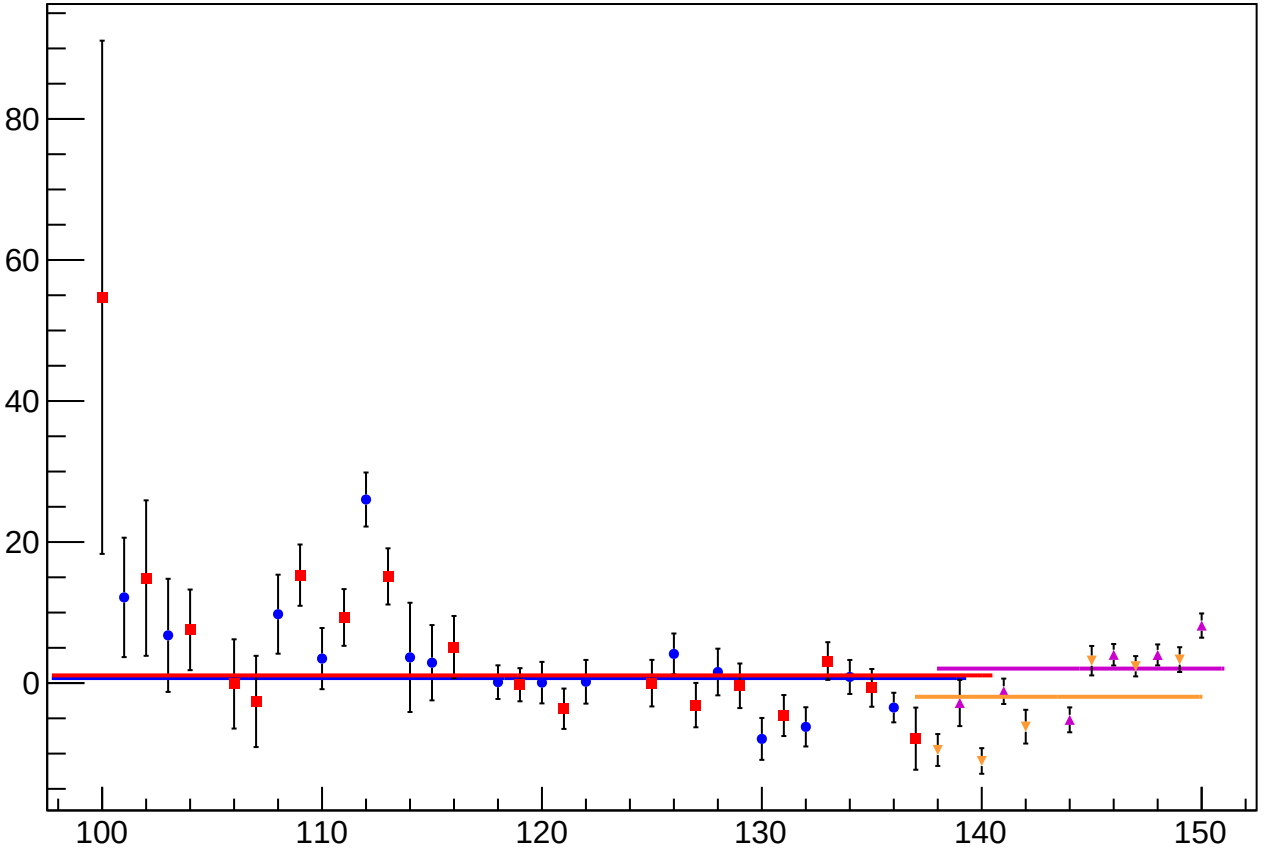
Right: -100.197+/-0.583 $\chi^2$/NDF: 3830.3/33

In: -95.141+/-0.585 $\chi^2$/NDF:1761.4/21

Out: -94.449+/-0.608 $\chi^2$/NDF:2512.6/23

All: -94.808+/-0.422 $\chi^2$/NDF: 4274.7/45

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.711+/-0.821 $\chi^2$/NDF: 69.6/15

Left Out: -1.943+/-0.765 $\chi^2$/NDF:63.4/5

Right Out: 1.088+/-0.856 $\chi^2$/NDF: 47.7/17

Left In: 2.054+/-0.718 $\chi^2$/NDF:38.3/5

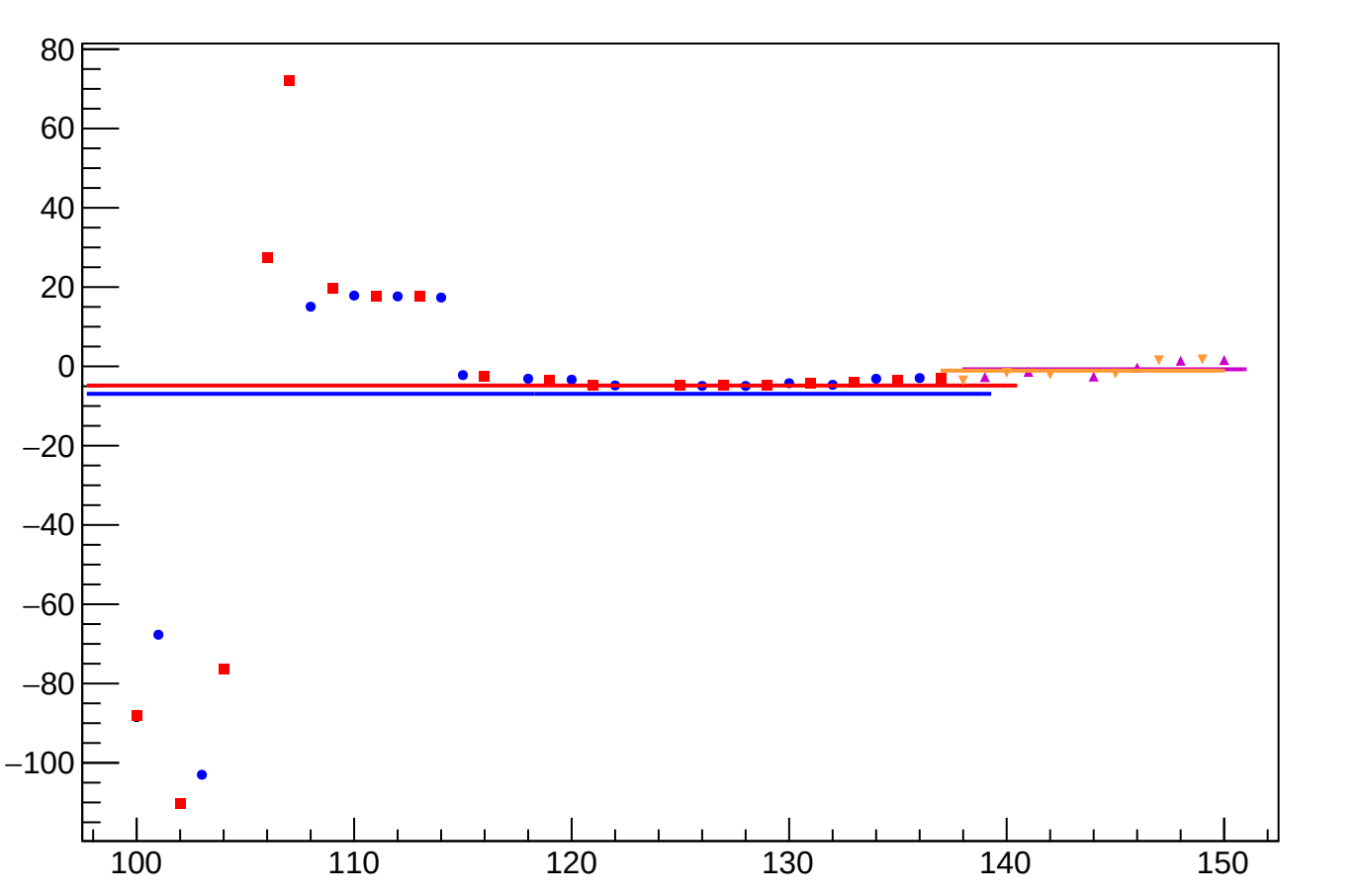
Left: 0.183+/-0.523 $\chi^2$/NDF: 116.2/11

Right: 0.892+/-0.593 $\chi^2$/NDF: 117.4/33

In: 1.473+/-0.540 $\chi^2$/NDF:109.4/21

Out: -0.598+/-0.570 $\chi^2$/NDF:118.1/23

All: 0.493+/-0.392 $\chi^2$/NDF: 234.4/45




Right In: -6.927+/-0.049 $\chi^2$/NDF: 265187.0/15

Left Out: -1.073+/-0.037 $\chi^2$/NDF:2909.8/5

Right Out: -4.833+/-0.053 $\chi^2$/NDF: 339363.3/17

Left In: -0.738+/-0.034 $\chi^2$/NDF:2644.7/5

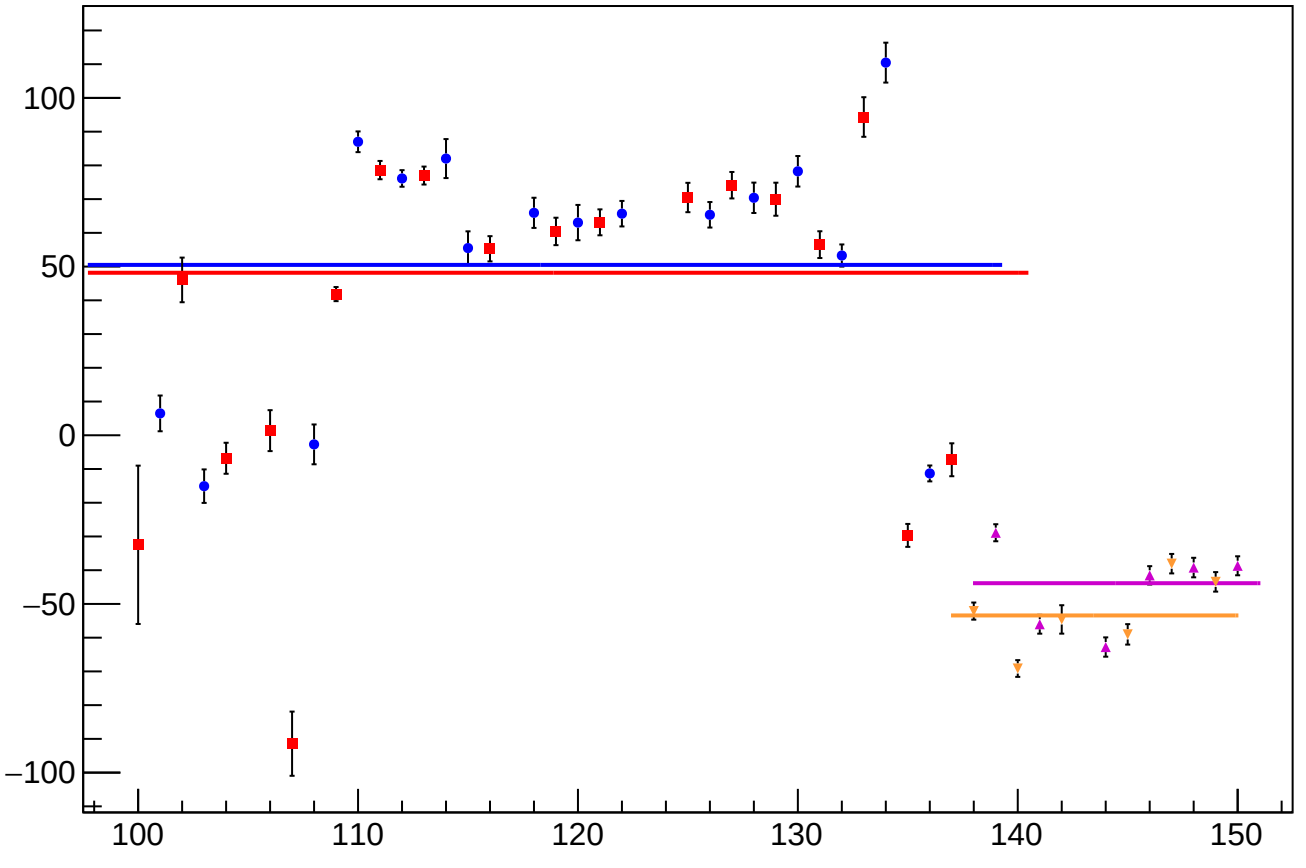
Left: -0.893+/-0.025 $\chi^2$/NDF: 5598.9/11

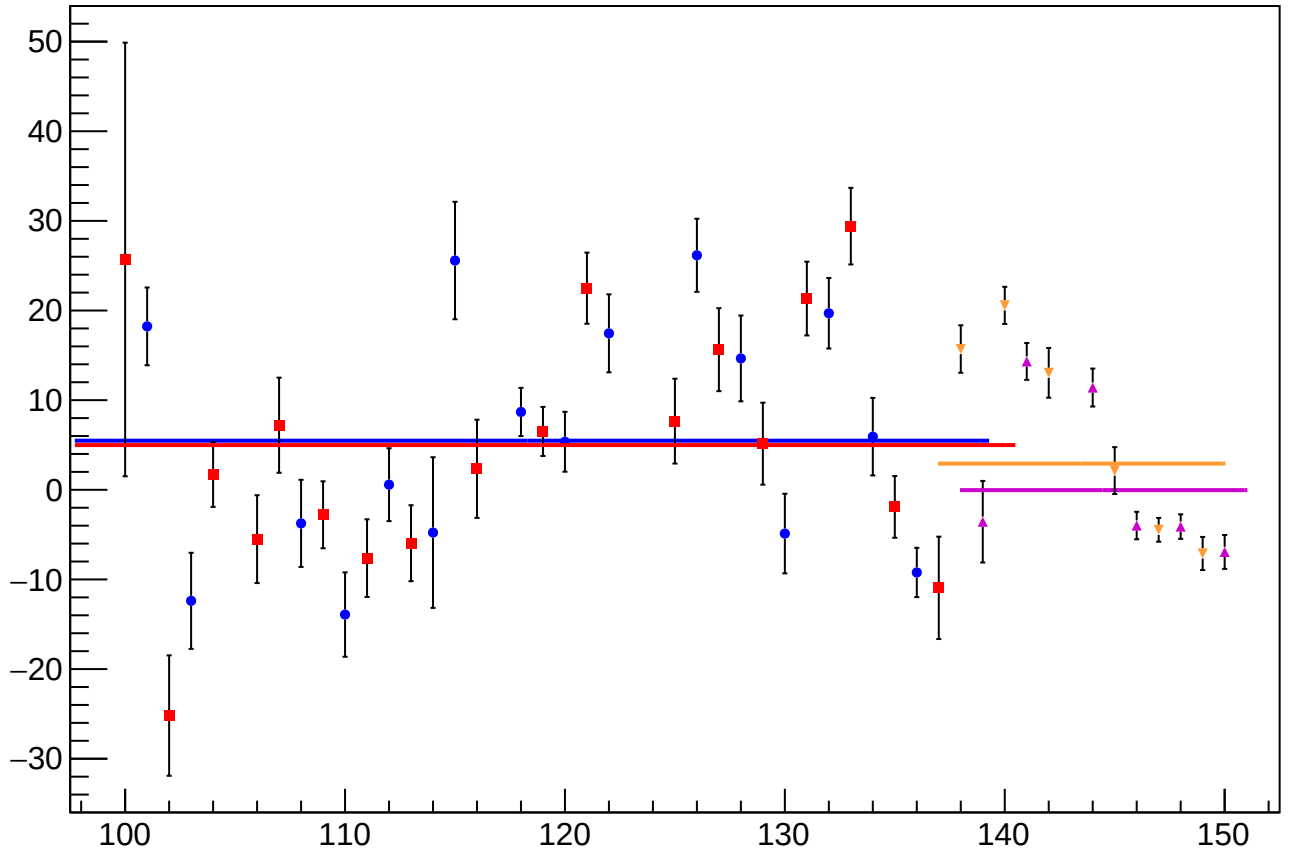
Right: -5.968+/-0.036 $\chi^2$/NDF: 605403.2/33

In: -2.787+/-0.028 $\chi^2$/NDF:278711.3/21

Out: -2.307+/-0.030 $\chi^2$/NDF:345679.1/23

All: -2.566+/-0.021 $\chi^2$/NDF: 624526.3/45


reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected
100
50
0
−50
−100
100
110
120
130
140
150
Right In: 50.503+/-0.965 χ²/NDF: 1503.6/15
Left Out: -53.411+/-1.176 χ²/NDF:84.1/5
Right Out: 48.172+/-0.914 χ²/NDF: 1519.5/17
Left In: -43.851+/-1.127 χ²/NDF:104.4/5
Left: -48.427+/-0.814 χ²/NDF: 222.9/11
Right: 49.274+/-0.664 χ²/NDF: 3026.2/33
In: 10.575+/-0.733 χ²/NDF:5650.8/21
Out: 9.916+/-0.722 χ²/NDF:6252.5/23
All: 10.240+/-0.514 χ²/NDF: 11903.7/45




Right In: 5.481+/-1.021 $\chi^2$/NDF: 138.2/15

Left Out: 2.926+/-0.813 $\chi^2$/NDF:169.7/5

Right Out: 4.992+/-1.023 $\chi^2$/NDF: 131.8/17

Left In: -0.036+/-0.756 $\chi^2$/NDF:107.5/5

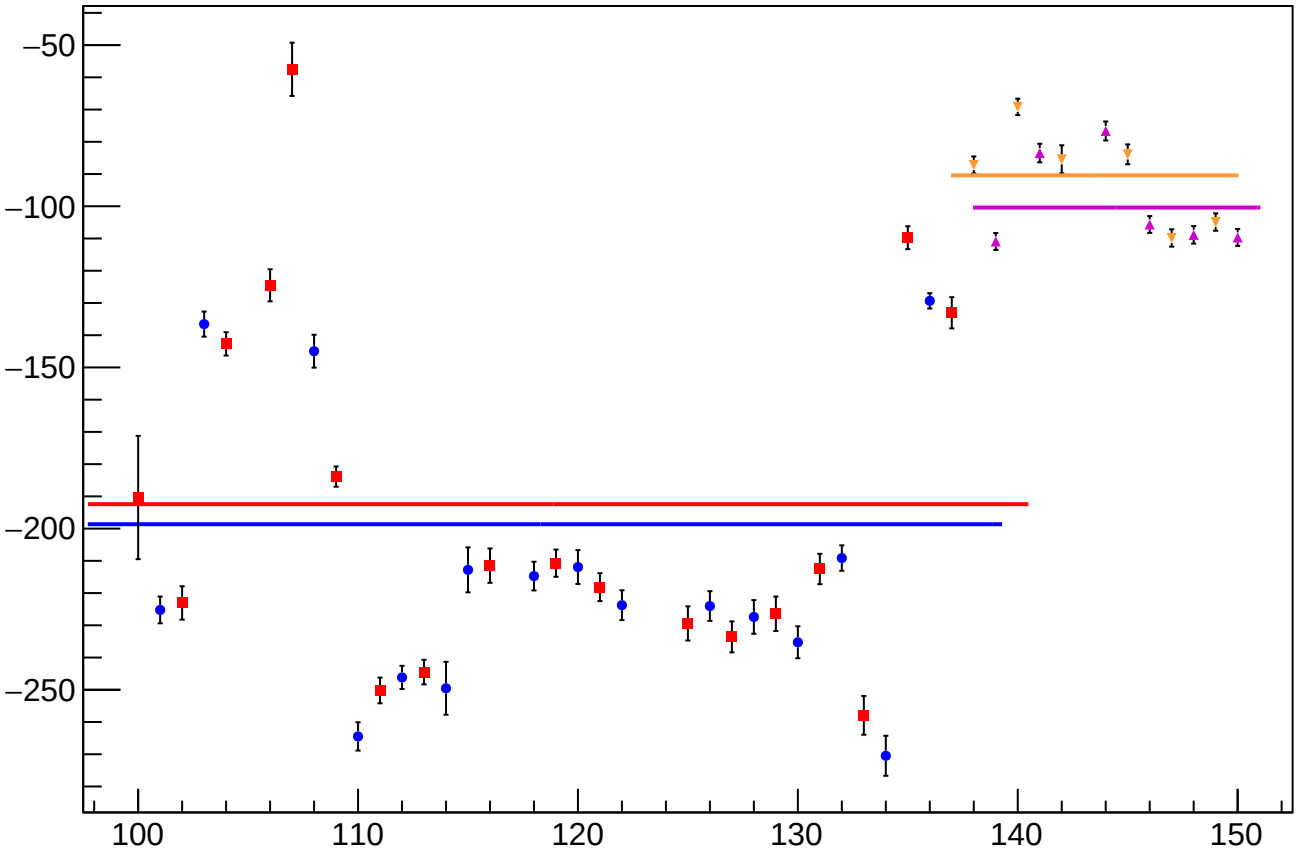
Left: 1.338+/-0.554 $\chi^2$/NDF: 284.3/11

Right: 5.236+/-0.723 $\chi^2$/NDF: 270.1/33

In: 1.917+/-0.608 $\chi^2$/NDF:264.5/21

Out: 3.727+/-0.637 $\chi^2$/NDF:304.0/23

All: 2.780+/-0.440 $\chi^2$/NDF: 572.7/45




Right In: -198.641+/-1.083 $\chi^2$/NDF: 2002.3/15

Left Out: -90.404+/-1.171 $\chi^2$/NDF:157.4/5

Right Out: -192.426+/-1.080 $\chi^2$/NDF: 2139.0/17

Left In: -100.393+/-1.112 $\chi^2$/NDF:141.9/5

Left: -95.657+/-0.806 $\chi^2$/NDF: 337.6/11

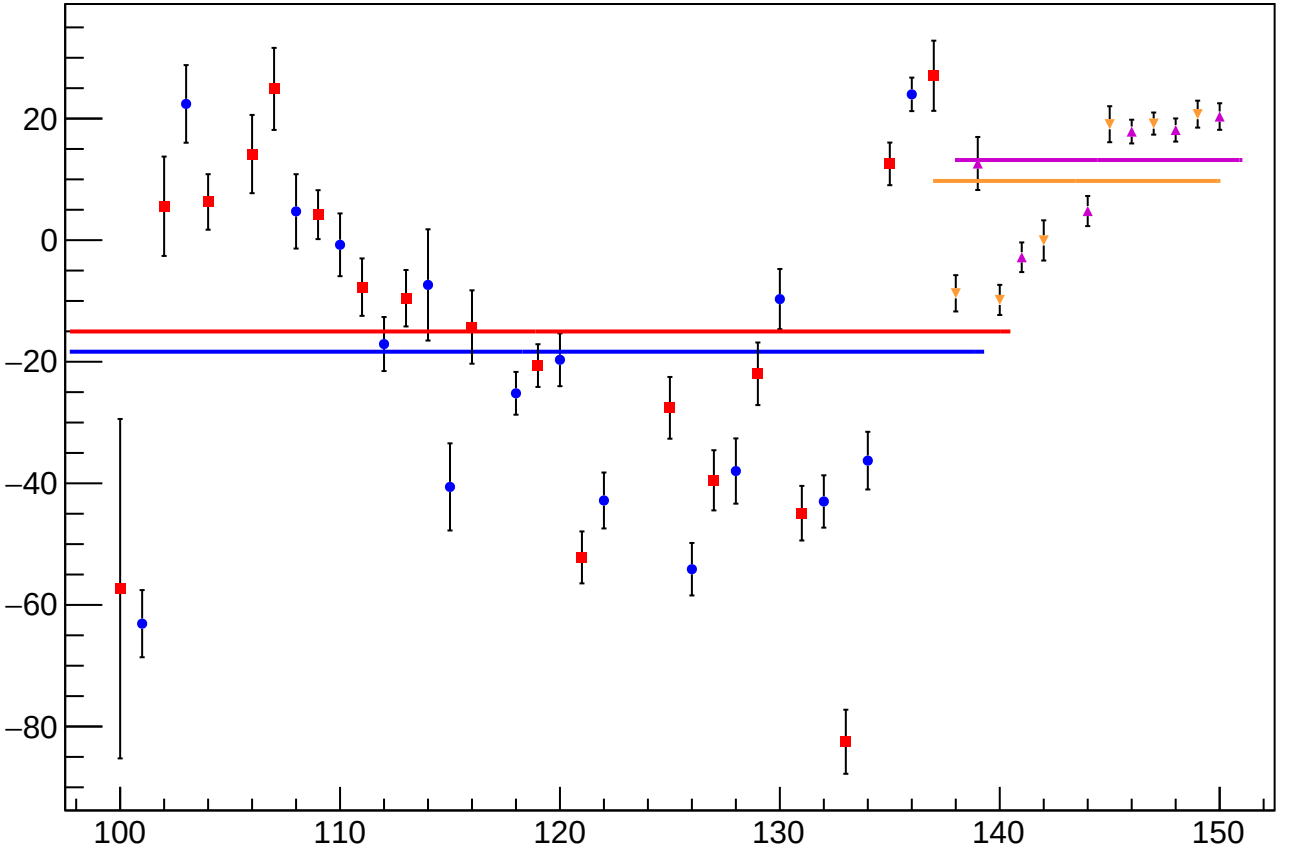
Right: -195.523+/-0.765 $\chi^2$/NDF: 4157.8/33

In: -150.796+/-0.776 $\chi^2$/NDF:6149.1/21

Out: -145.546+/-0.794 $\chi^2$/NDF:6398.9/23

All: -148.231+/-0.555 $\chi^2$/NDF: 12570.3/45

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -18.348+/-1.159 $\chi^2$/NDF: 543.9/15

Left Out: 9.741+/-1.008 $\chi^2$/NDF:170.6/5

Right Out: -15.021+/-1.162 $\chi^2$/NDF: 546.4/17

Left In: 13.182+/-0.940 $\chi^2$/NDF:77.7/5

Left: 11.581+/-0.687 $\chi^2$/NDF: 254.6/11

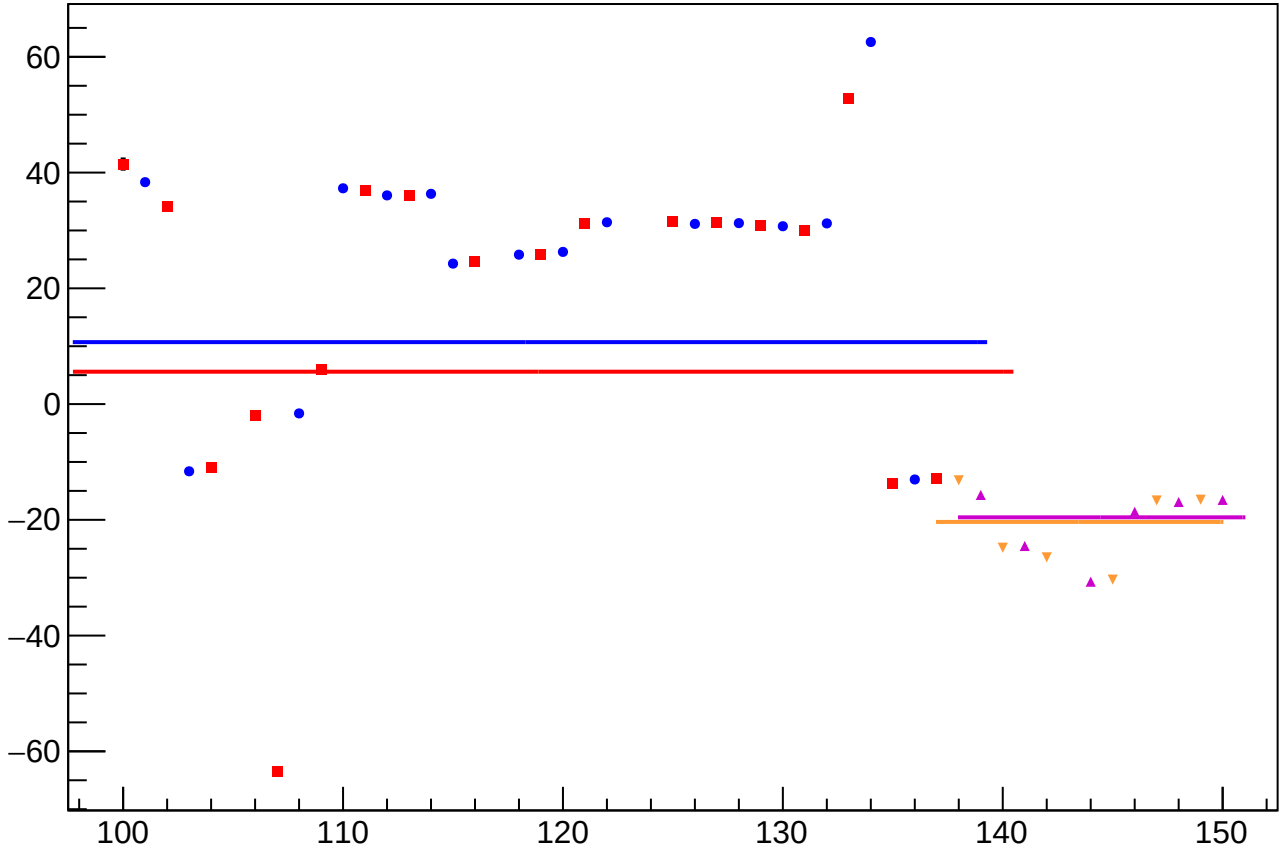
Right: -16.688+/-0.821 $\chi^2$/NDF: 1094.5/33

In: 0.678+/-0.730 $\chi^2$/NDF:1068.0/21

Out: -0.888+/-0.761 $\chi^2$/NDF:976.4/23

All: -0.072+/-0.527 $\chi^2$/NDF: 2046.5/45

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 10.704+/-0.063 $\chi^2$/NDF: 164860.8/15

Left Out: -20.361+/-0.049 $\chi^2$/NDF:16308.9/5

Right Out: 5.595+/-0.064 $\chi^2$/NDF: 154966.4/17

Left In: -19.567+/-0.045 $\chi^2$/NDF:12056.0/5

Left: -19.930+/-0.033 $\chi^2$/NDF: 28507.5/11

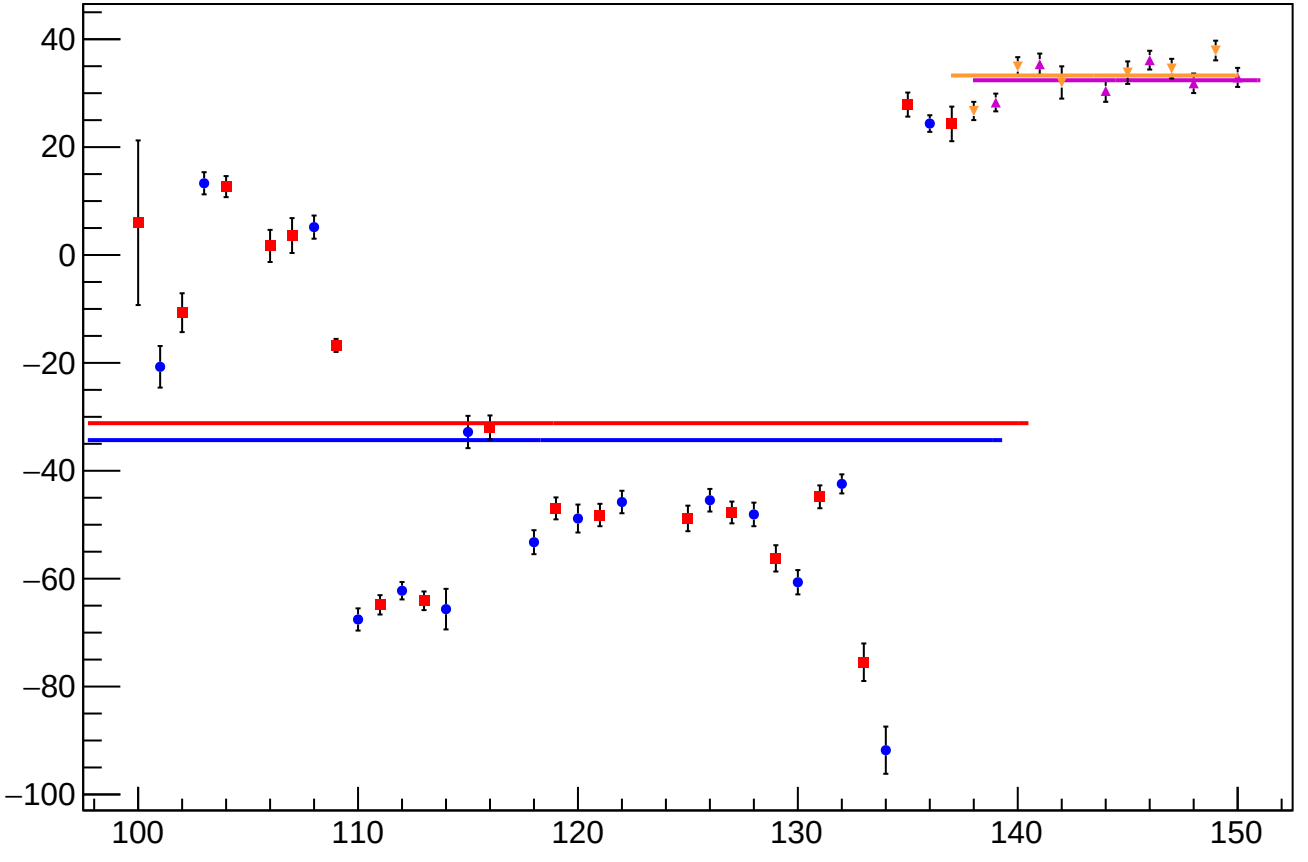
Right: 8.178+/-0.045 $\chi^2$/NDF: 323087.7/33

In: -9.333+/-0.037 $\chi^2$/NDF:330208.5/21

Out: -10.703+/-0.039 $\chi^2$/NDF:275808.5/23

All: -9.978+/-0.027 $\chi^2$/NDF: 606677.4/45

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -34.315+/-0.548 $\chi^2$/NDF: 3500.2/15

Left Out: 33.280+/-0.784 $\chi^2$/NDF:23.2/5

Right Out: -31.175+/-0.516 $\chi^2$/NDF: 3200.4/17

Left In: 32.396+/-0.740 $\chi^2$/NDF:14.3/5

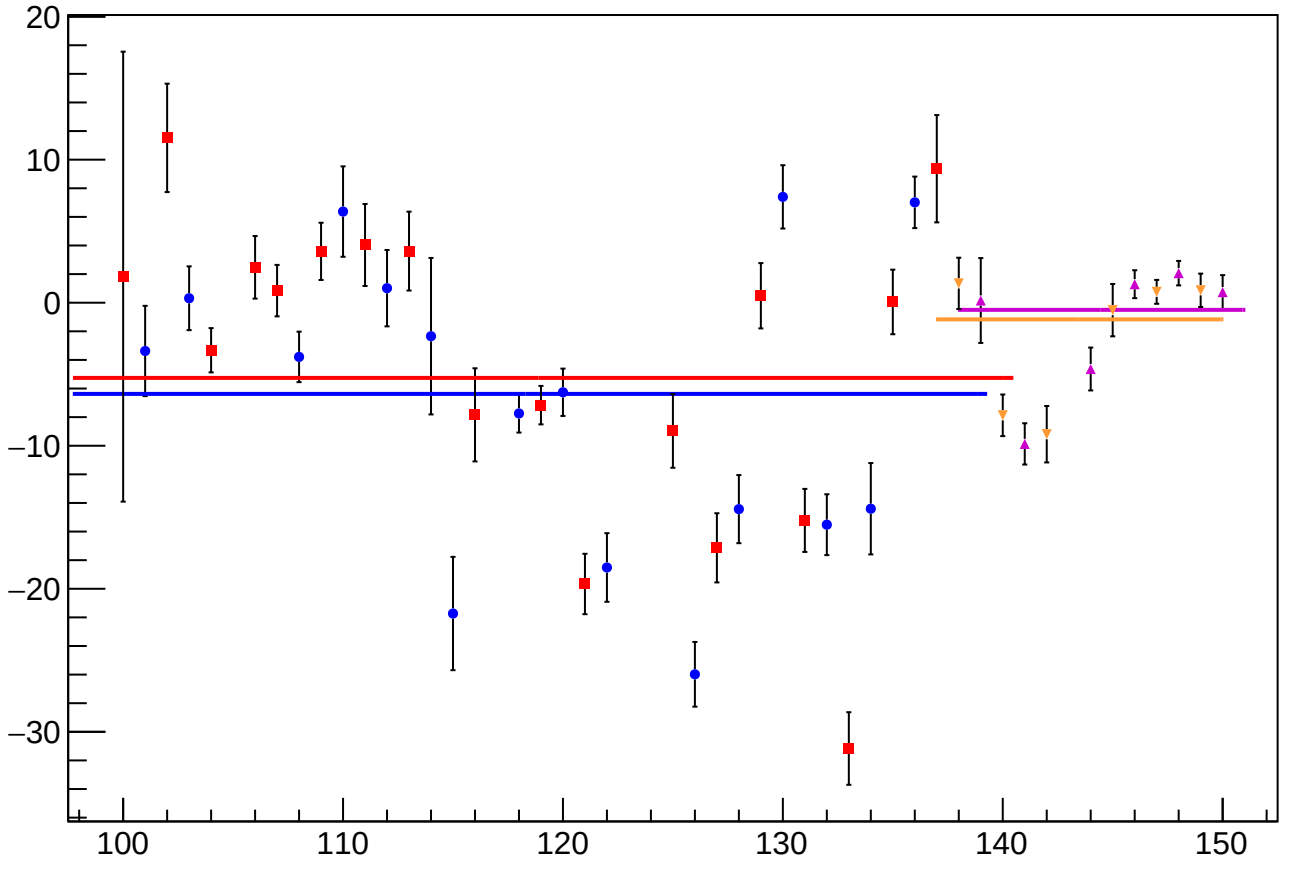
Left: 32.812+/-0.538 $\chi^2$/NDF: 38.2/11

Right: -32.651+/-0.375 $\chi^2$/NDF: 6718.0/33

In: -10.682+/-0.440 $\chi^2$/NDF:8768.7/21

Out: -11.709+/-0.431 $\chi^2$/NDF:7940.8/23

All: -11.207+/-0.308 $\chi^2$/NDF: 16712.3/45




Right In: -6.375+/-0.554 $\chi^2$/NDF: 283.6/15

Left Out: -1.166+/-0.534 $\chi^2$/NDF:48.3/5

Right Out: -5.256+/-0.533 $\chi^2$/NDF: 312.9/17

Left In: -0.500+/-0.490 $\chi^2$/NDF:63.3/5

Left: -0.804+/-0.361 $\chi^2$/NDF: 112.4/11

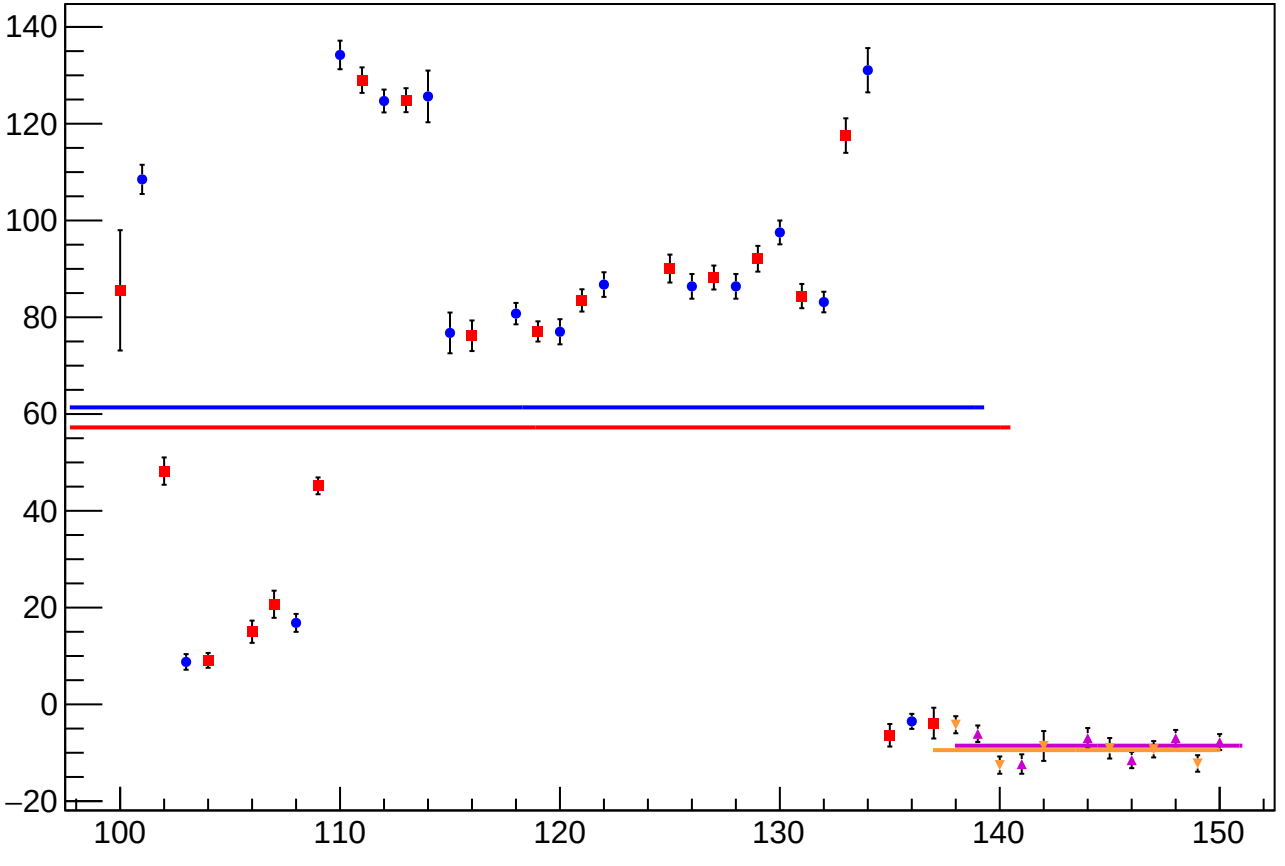
Right: -5.794+/-0.384 $\chi^2$/NDF: 598.6/33

In: -3.082+/-0.367 $\chi^2$/NDF:410.1/21

Out: -3.216+/-0.377 $\chi^2$/NDF:390.6/23

All: -3.147+/-0.263 $\chi^2$/NDF: 800.7/45

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 61.377+/-0.594 $\chi^2$/NDF: 6066.8/15

Left Out: -9.454+/-0.777 $\chi^2$/NDF:14.6/5

Right Out: 57.240+/-0.580 $\chi^2$/NDF: 5267.5/17

Left In: -8.535+/-0.727 $\chi^2$/NDF:10.4/5

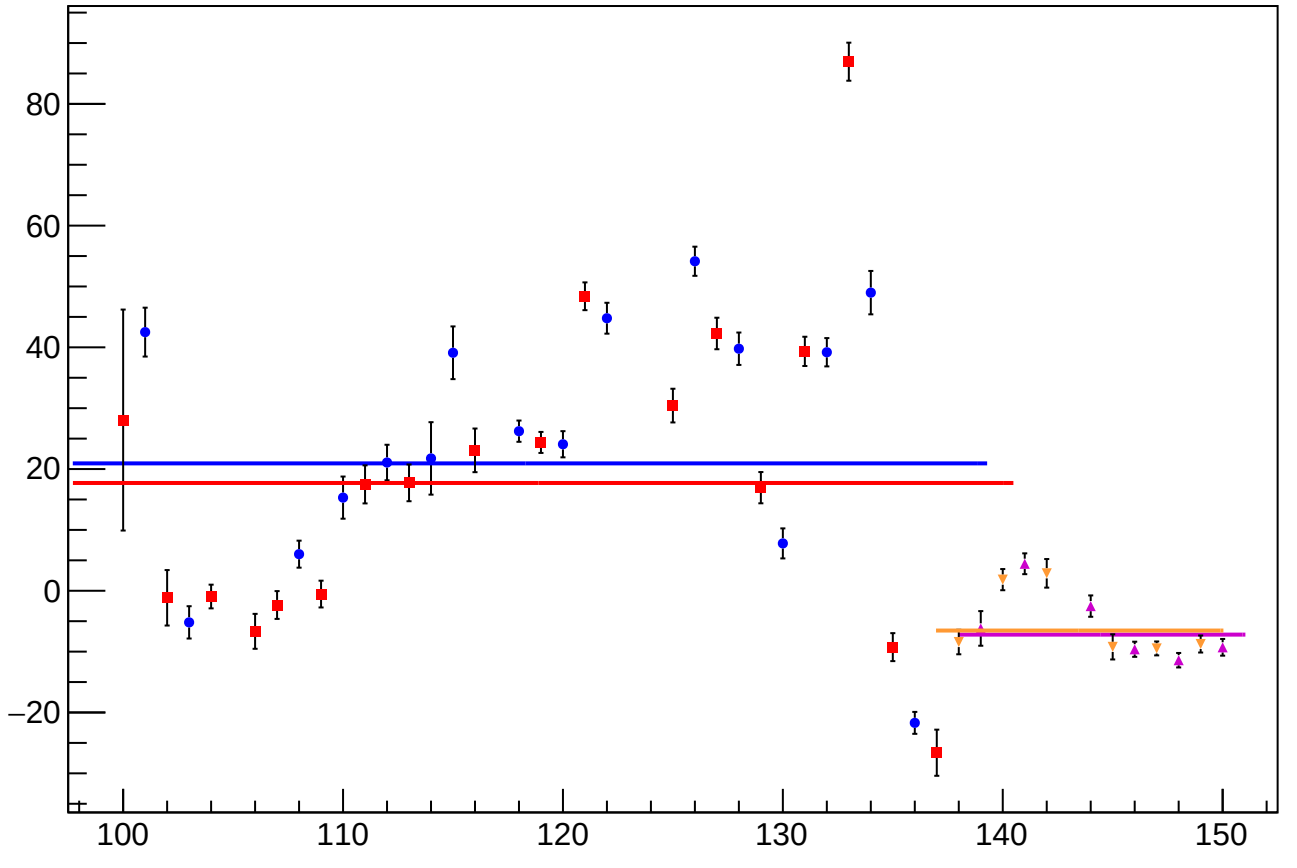
Left: -8.964+/-0.531 $\chi^2$/NDF: 25.7/11

Right: 59.259+/-0.415 $\chi^2$/NDF: 11359.0/33

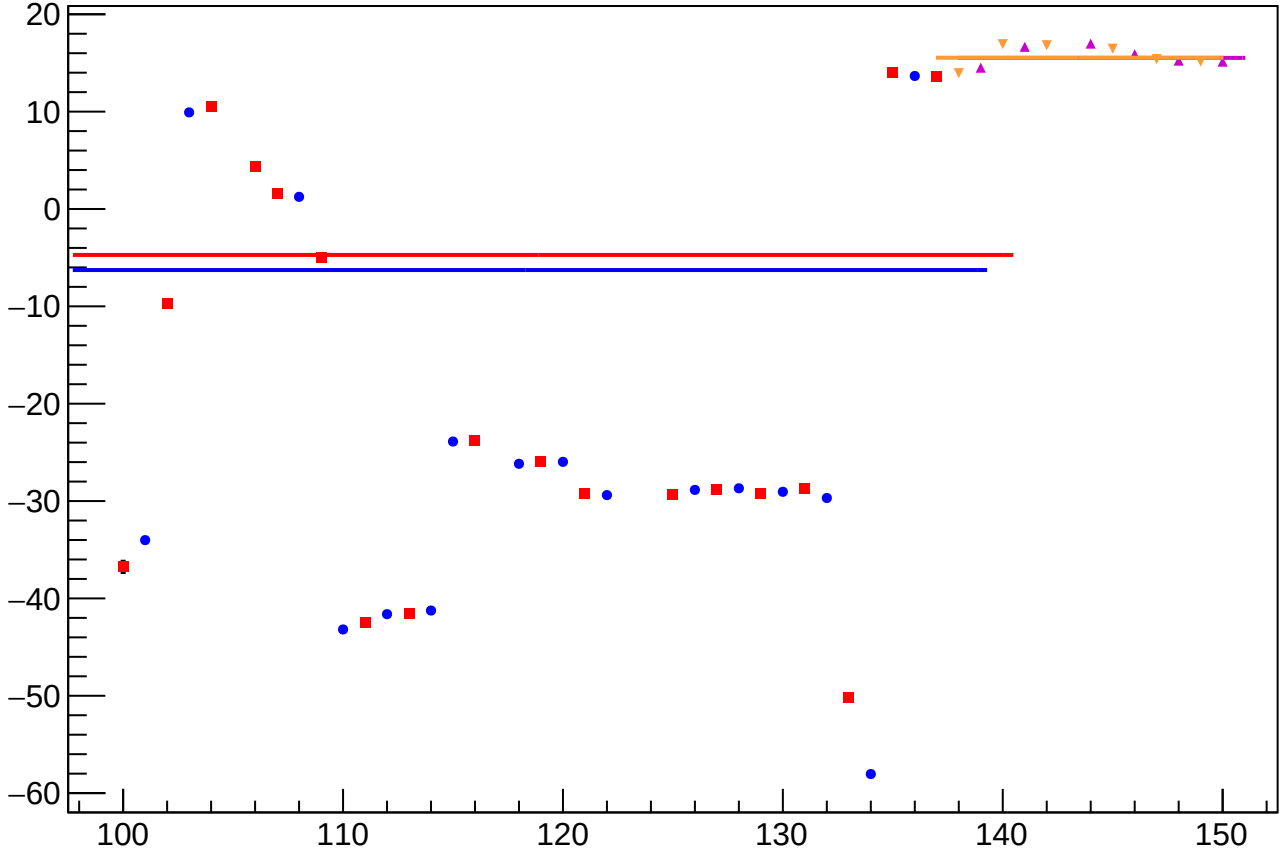
In: 33.376+/-0.460 $\chi^2$/NDF:11619.7/21

Out: 33.369+/-0.465 $\chi^2$/NDF:10011.5/23

All: 33.372+/-0.327 $\chi^2$/NDF: 21631.2/45


reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
100
110
120
130
140
150
Right In: 20.931+/-0.640 χ²/NDF: 1245.4/15
Left Out: -6.536+/-0.664 χ²/NDF:50.8/5
Right Out: 17.711+/-0.618 χ²/NDF: 1481.9/17
Left In: -7.206+/-0.612 χ²/NDF:72.1/5
Left: -6.899+/-0.450 χ²/NDF: 123.5/11
Right: 19.265+/-0.445 χ²/NDF: 2740.4/33
In: 6.222+/-0.442 χ²/NDF:2327.5/21
Out: 6.460+/-0.453 χ²/NDF:2246.7/23
All: 6.338+/-0.316 χ²/NDF: 4574.4/45

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -6.271+/-0.033 $\chi^2$/NDF: 410461.0/15

Left Out: 15.537+/-0.032 $\chi^2$/NDF:1097.3/5

Right Out: -4.720+/-0.034 $\chi^2$/NDF: 306663.6/17

Left In: 15.519+/-0.029 $\chi^2$/NDF:789.0/5

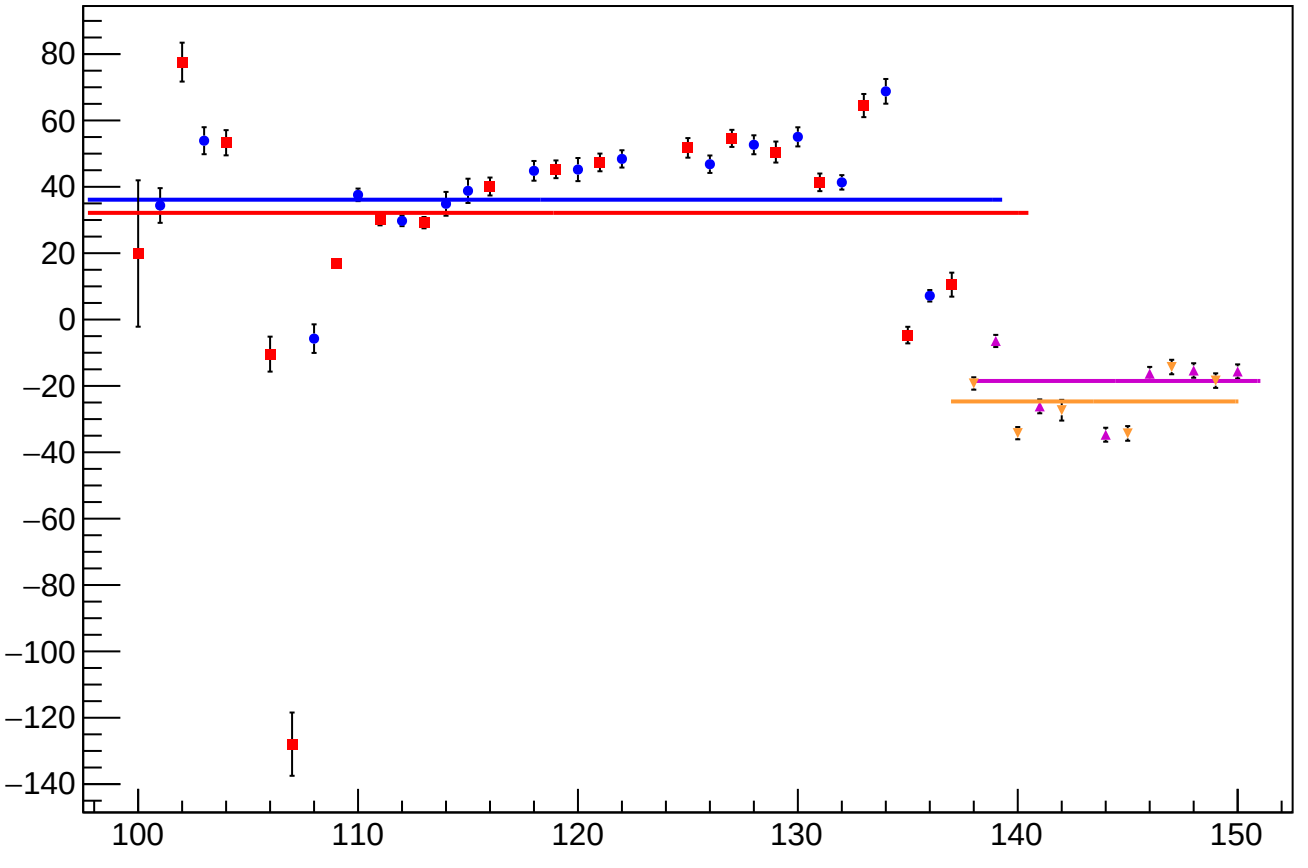
Left: 15.527+/-0.022 $\chi^2$/NDF: 1886.4/11

Right: -5.502+/-0.024 $\chi^2$/NDF: 718193.1/33

In: 6.040+/-0.022 $\chi^2$/NDF:651480.6/21

Out: 5.777+/-0.023 $\chi^2$/NDF:495119.2/23

All: 5.916+/-0.016 $\chi^2$/NDF: 1146666.5/45




Right In: 36.118+/-0.656 $\chi^2$/NDF: 622.8/15

Left Out: -24.679+/-0.876 $\chi^2$/NDF:85.5/5

Right Out: 32.150+/-0.631 $\chi^2$/NDF: 1114.6/17

Left In: -18.506+/-0.838 $\chi^2$/NDF:120.9/5

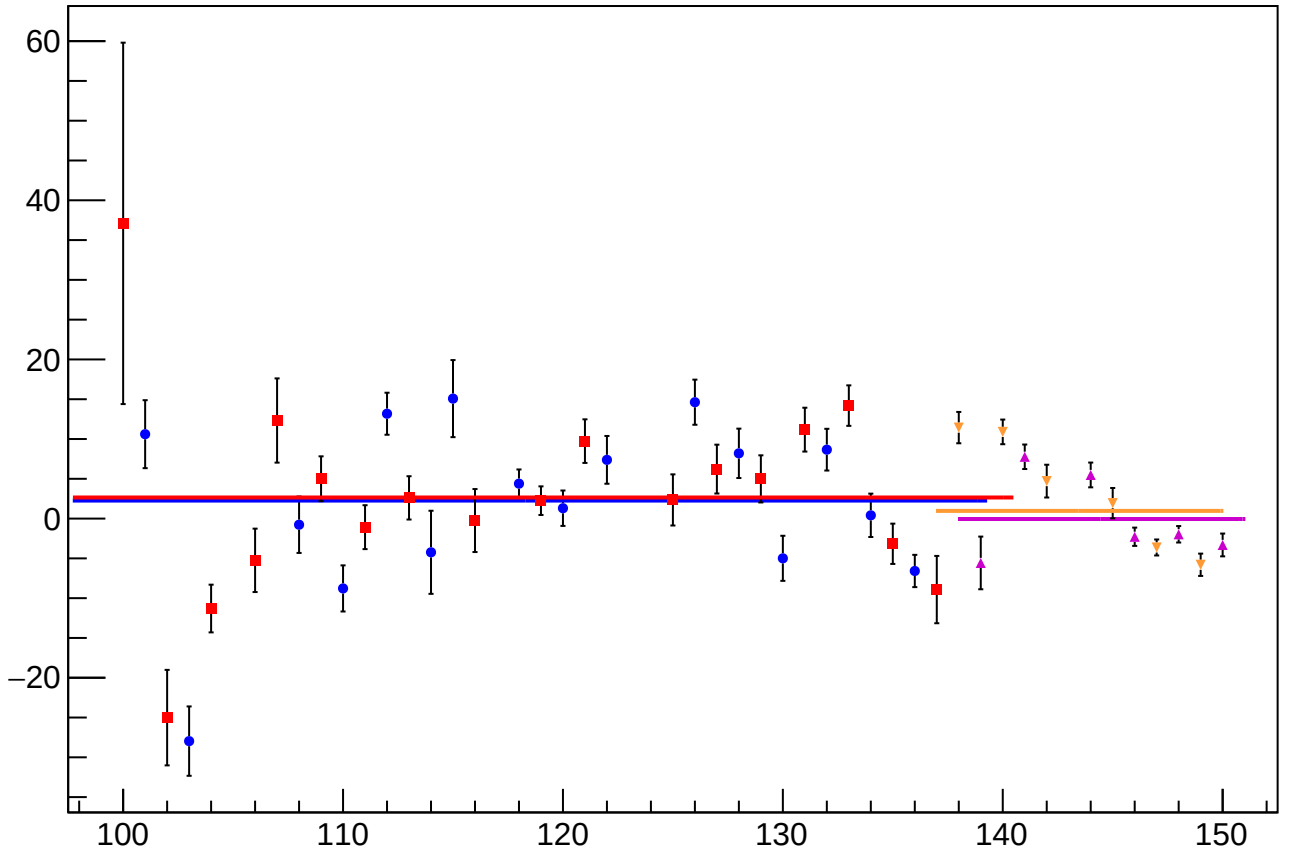
Left: -21.456+/-0.606 $\chi^2$/NDF: 232.3/11

Right: 34.055+/-0.455 $\chi^2$/NDF: 1756.4/33

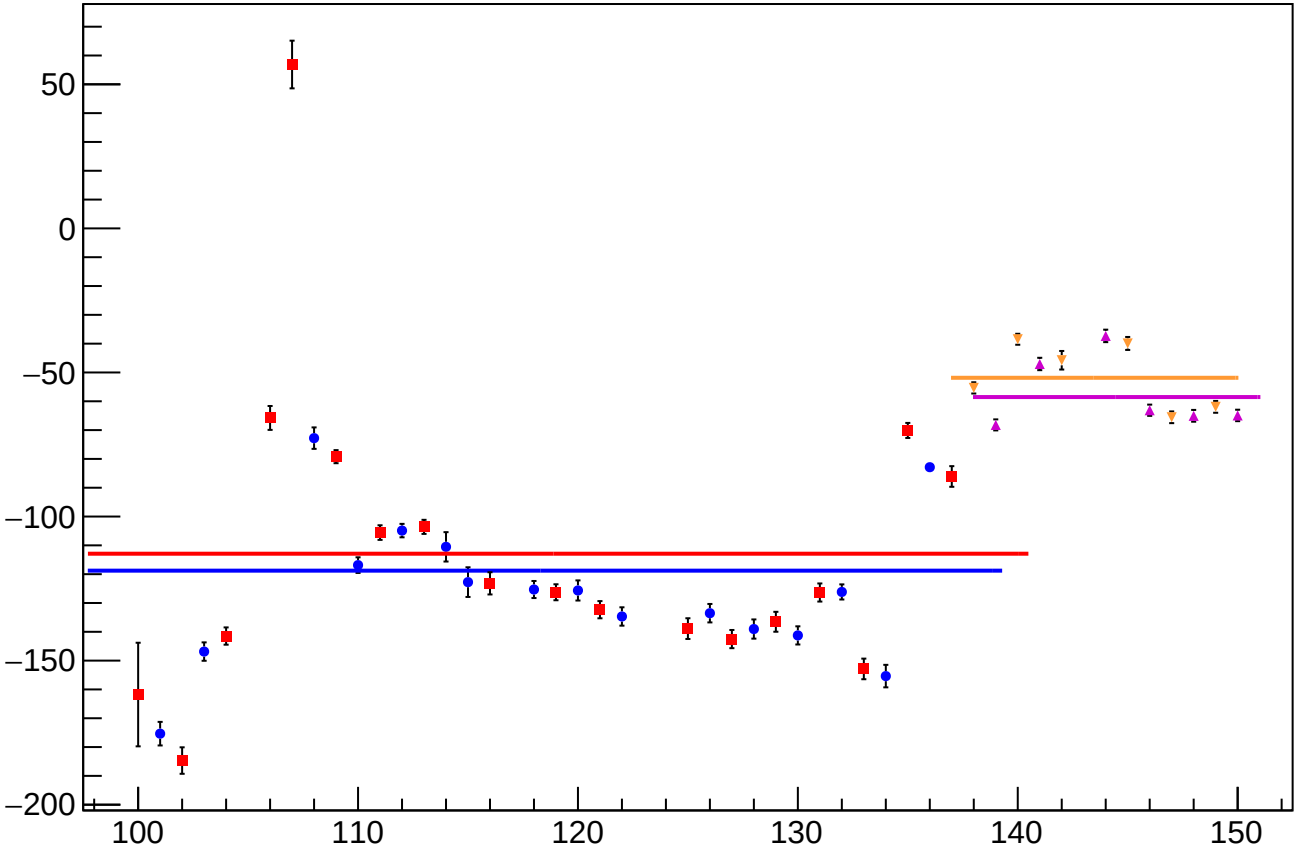
In: 15.356+/-0.517 $\chi^2$/NDF:3375.7/21

Out: 12.760+/-0.512 $\chi^2$/NDF:3971.0/23

All: 14.045+/-0.364 $\chi^2$/NDF: 7359.4/45


reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
60
40
20
0
−20
100
110
120
130
140
150
Right In: 2.265+/-0.701 χ²/NDF: 152.0/15
Left Out: 0.966+/-0.610 χ²/NDF:117.2/5
Right Out: 2.651+/-0.715 χ²/NDF: 107.2/17
Left In: -0.052+/-0.567 χ²/NDF:53.7/5
Left: 0.420+/-0.416 χ²/NDF: 172.3/11
Right: 2.454+/-0.501 χ²/NDF: 259.4/33
In: 0.864+/-0.441 χ²/NDF:212.3/21
Out: 1.677+/-0.464 χ²/NDF:227.6/23
All: 1.249+/-0.320 χ²/NDF: 441.5/45

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -118.778+/-0.757 $\chi^2$/NDF: 1119.5/15

Left Out: -51.844+/-0.873 $\chi^2$/NDF:153.6/5

Right Out: -112.899+/-0.761 $\chi^2$/NDF: 1862.9/17

Left In: -58.533+/-0.828 $\chi^2$/NDF:176.0/5

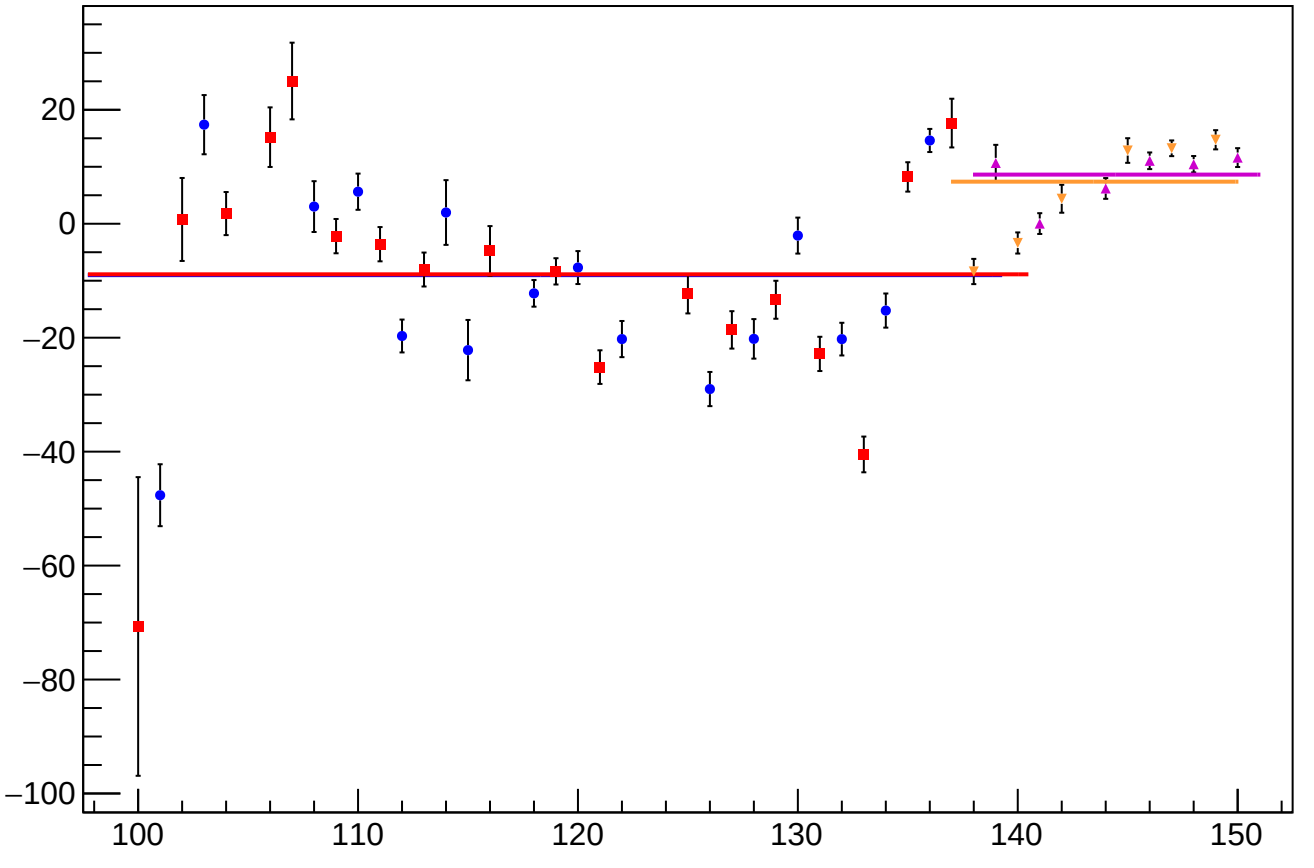
Left: -55.367+/-0.601 $\chi^2$/NDF: 360.4/11

Right: -115.855+/-0.537 $\chi^2$/NDF: 3012.4/33

In: -91.360+/-0.559 $\chi^2$/NDF:4179.3/21

Out: -86.553+/-0.574 $\chi^2$/NDF:4794.3/23

All: -89.020+/-0.400 $\chi^2$/NDF: 9009.7/45




Right In: -9.022+/-0.796 $\chi^2$/NDF: 358.0/15

Left Out: 7.385+/-0.755 $\chi^2$/NDF:129.5/5

Right Out: -8.878+/-0.810 $\chi^2$/NDF: 318.7/17

Left In: 8.625+/-0.704 $\chi^2$/NDF:32.0/5

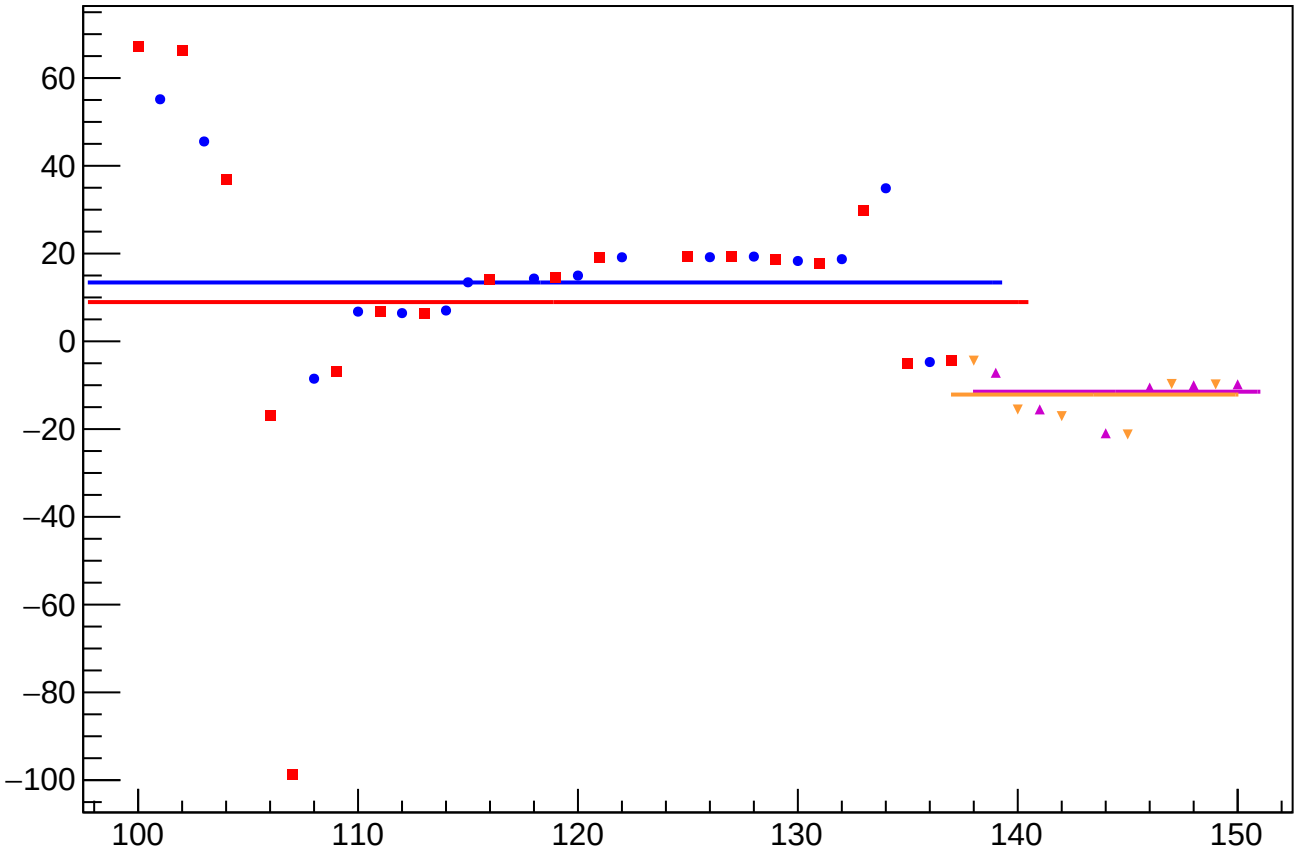
Left: 8.048+/-0.515 $\chi^2$/NDF: 162.9/11

Right: -8.951+/-0.568 $\chi^2$/NDF: 676.8/33

In: 0.879+/-0.527 $\chi^2$/NDF:666.0/21

Out: -0.170+/-0.552 $\chi^2$/NDF:663.8/23

All: 0.379+/-0.381 $\chi^2$/NDF: 1331.7/45




Right In: 13.412+/-0.045 $\chi^2$/NDF: 183707.4/15

Left Out: -12.129+/-0.036 $\chi^2$/NDF:25088.8/5

Right Out: 8.943+/-0.047 $\chi^2$/NDF: 291126.5/17

Left In: -11.479+/-0.033 $\chi^2$/NDF:16550.4/5

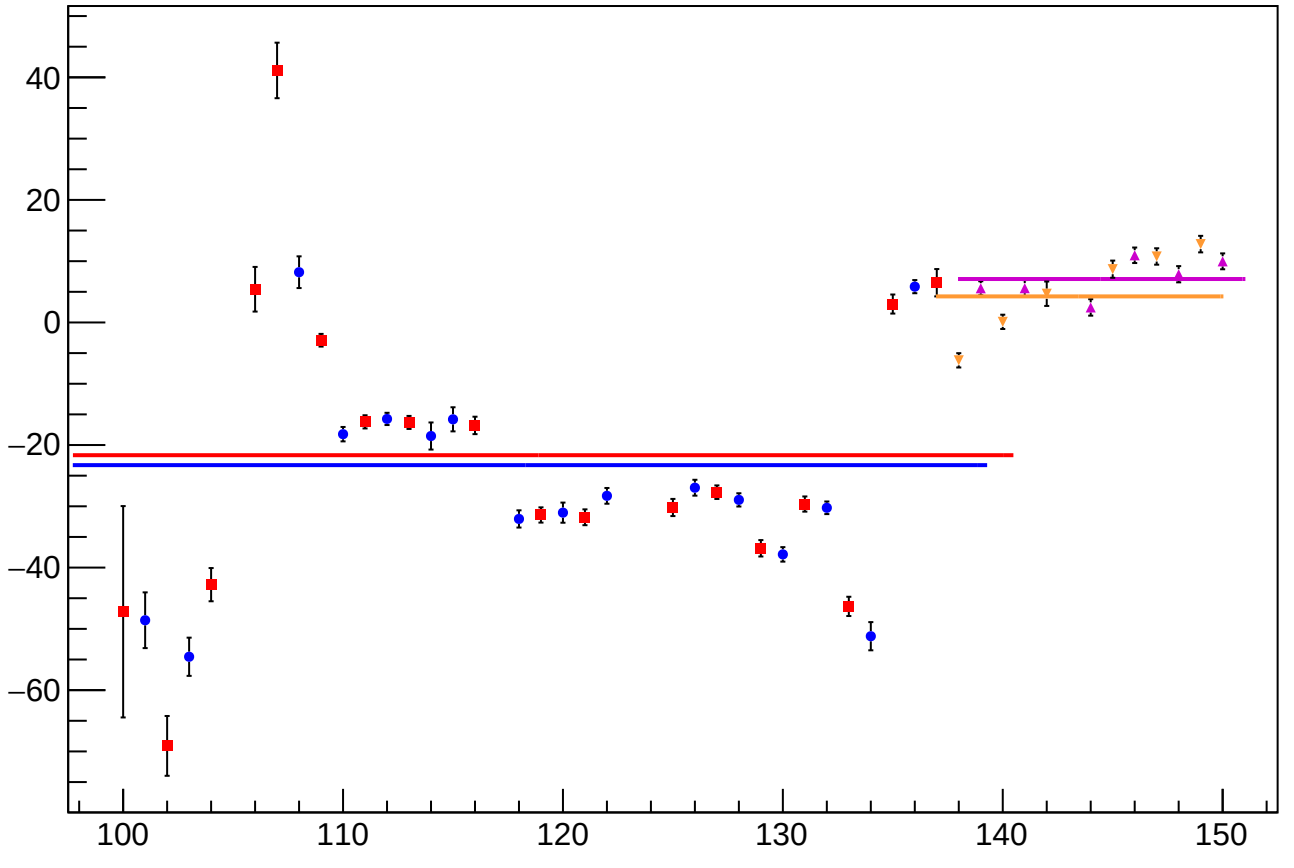
Left: -11.776+/-0.025 $\chi^2$/NDF: 41811.8/11

Right: 11.280+/-0.033 $\chi^2$/NDF: 479481.6/33

In: -2.695+/-0.027 $\chi^2$/NDF:395792.9/21

Out: -4.297+/-0.029 $\chi^2$/NDF:440396.6/23

All: -3.439+/-0.020 $\chi^2$/NDF: 837835.0/45




Right In: -23.281+/-0.350 $\chi^2$/NDF: 1567.9/15

Left Out: 4.253+/-0.547 $\chi^2$/NDF:166.5/5

Right Out: -21.660+/-0.347 $\chi^2$/NDF: 1813.6/17

Left In: 7.091+/-0.521 $\chi^2$/NDF:29.6/5

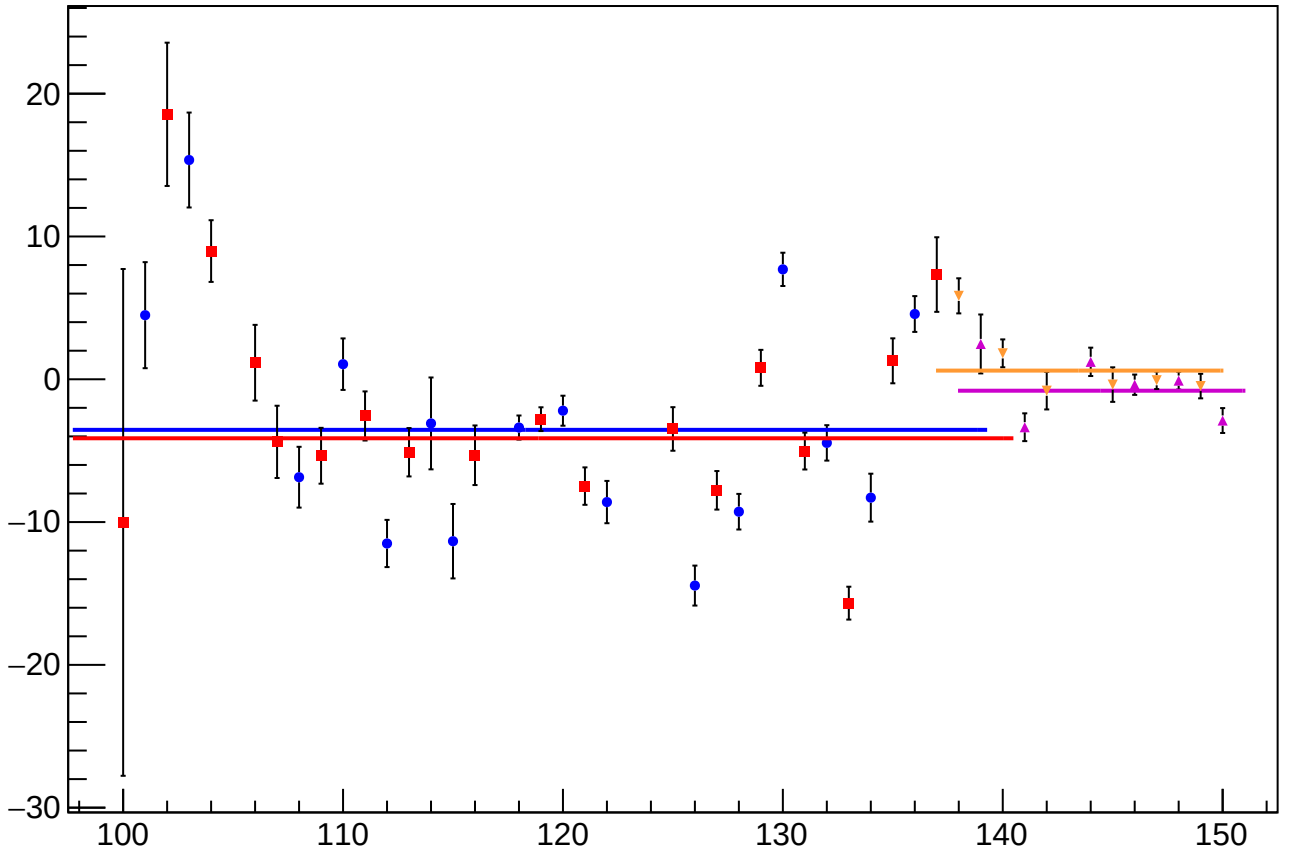
Left: 5.741+/-0.377 $\chi^2$/NDF: 210.2/11

Right: -22.463+/-0.247 $\chi^2$/NDF: 3392.3/33

In: -13.827+/-0.291 $\chi^2$/NDF:3936.3/21

Out: -14.216+/-0.293 $\chi^2$/NDF:3579.1/23

All: -14.019+/-0.206 $\chi^2$/NDF: 7516.3/45




Right In: -3.541+/-0.363 $\chi^2$/NDF: 316.8/15

Left Out: 0.608+/-0.379 $\chi^2$/NDF:24.3/5

Right Out: -4.132+/-0.371 $\chi^2$/NDF: 227.4/17

Left In: -0.801+/-0.350 $\chi^2$/NDF:20.9/5

Left: -0.152+/-0.257 $\chi^2$/NDF: 52.7/11

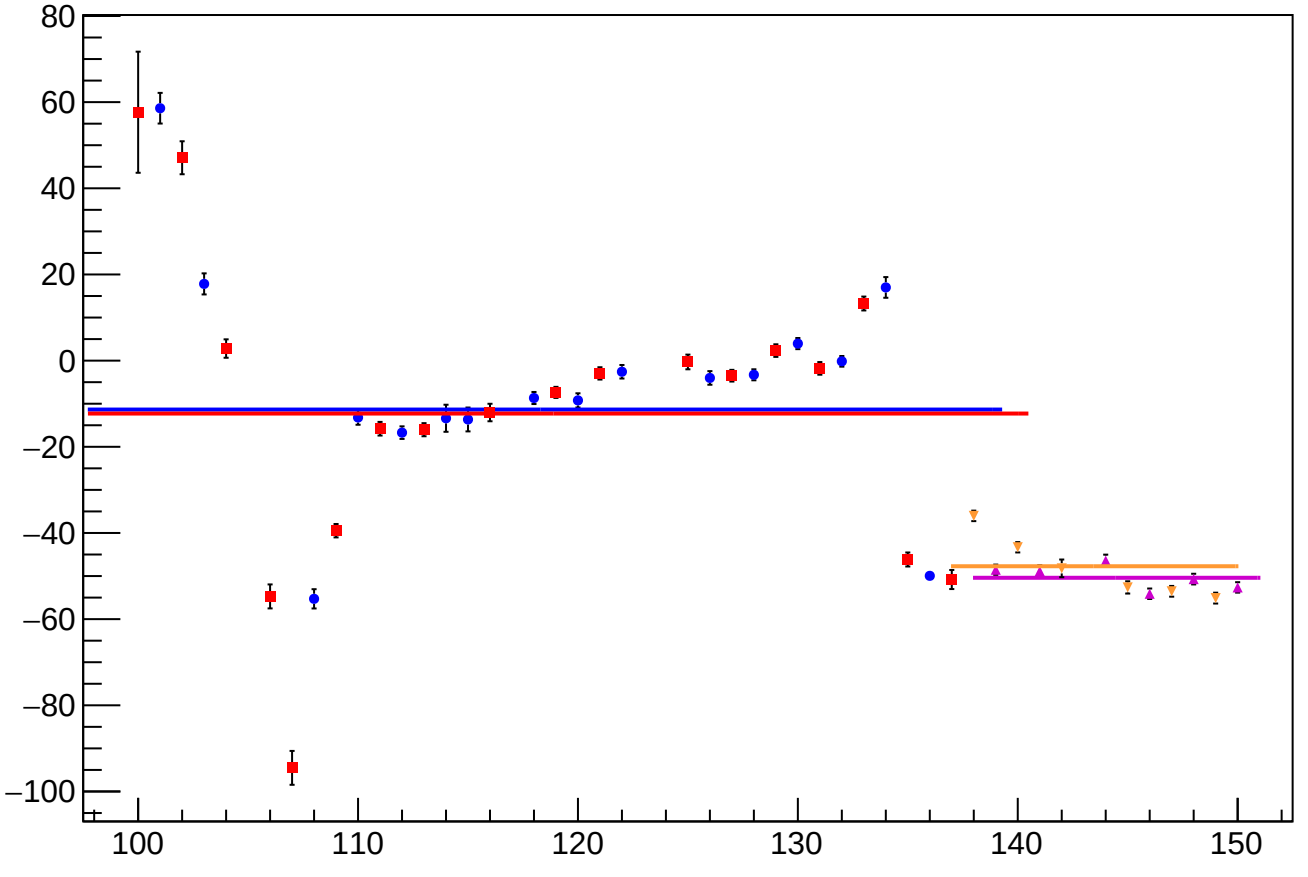
Right: -3.830+/-0.259 $\chi^2$/NDF: 545.5/33

In: -2.123+/-0.252 $\chi^2$/NDF:367.2/21

Out: -1.814+/-0.265 $\chi^2$/NDF:331.7/23

All: -1.977+/-0.183 $\chi^2$/NDF: 699.6/45

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -11.355+/-0.406 $\chi^2$/NDF: 2661.6/15

Left Out: -47.723+/-0.545 $\chi^2$/NDF:173.7/5

Right Out: -12.281+/-0.413 $\chi^2$/NDF: 2590.4/17

Left In: -50.401+/-0.514 $\chi^2$/NDF:24.9/5

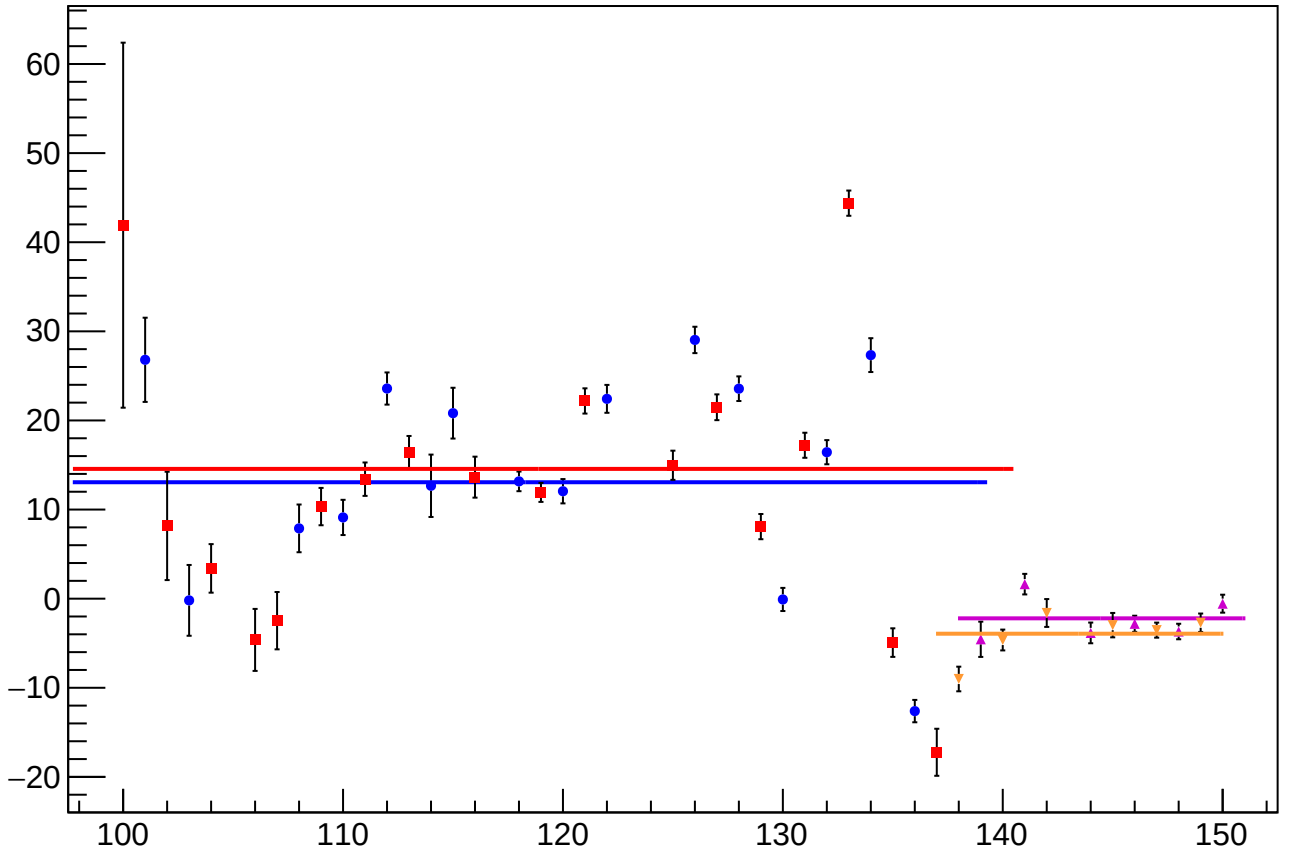
Left: -49.140+/-0.374 $\chi^2$/NDF: 211.4/11

Right: -11.809+/-0.289 $\chi^2$/NDF: 5254.6/33

In: -26.340+/-0.318 $\chi^2$/NDF:6241.8/21

Out: -25.227+/-0.329 $\chi^2$/NDF:5452.2/23

All: -25.802+/-0.229 $\chi^2$/NDF: 11699.9/45




Right In: 13.066+/-0.415 $\chi^2$/NDF: 863.4/15

Left Out: -3.932+/-0.469 $\chi^2$/NDF:18.2/5

Right Out: 14.563+/-0.423 $\chi^2$/NDF: 903.1/17

Left In: -2.208+/-0.436 $\chi^2$/NDF:20.5/5

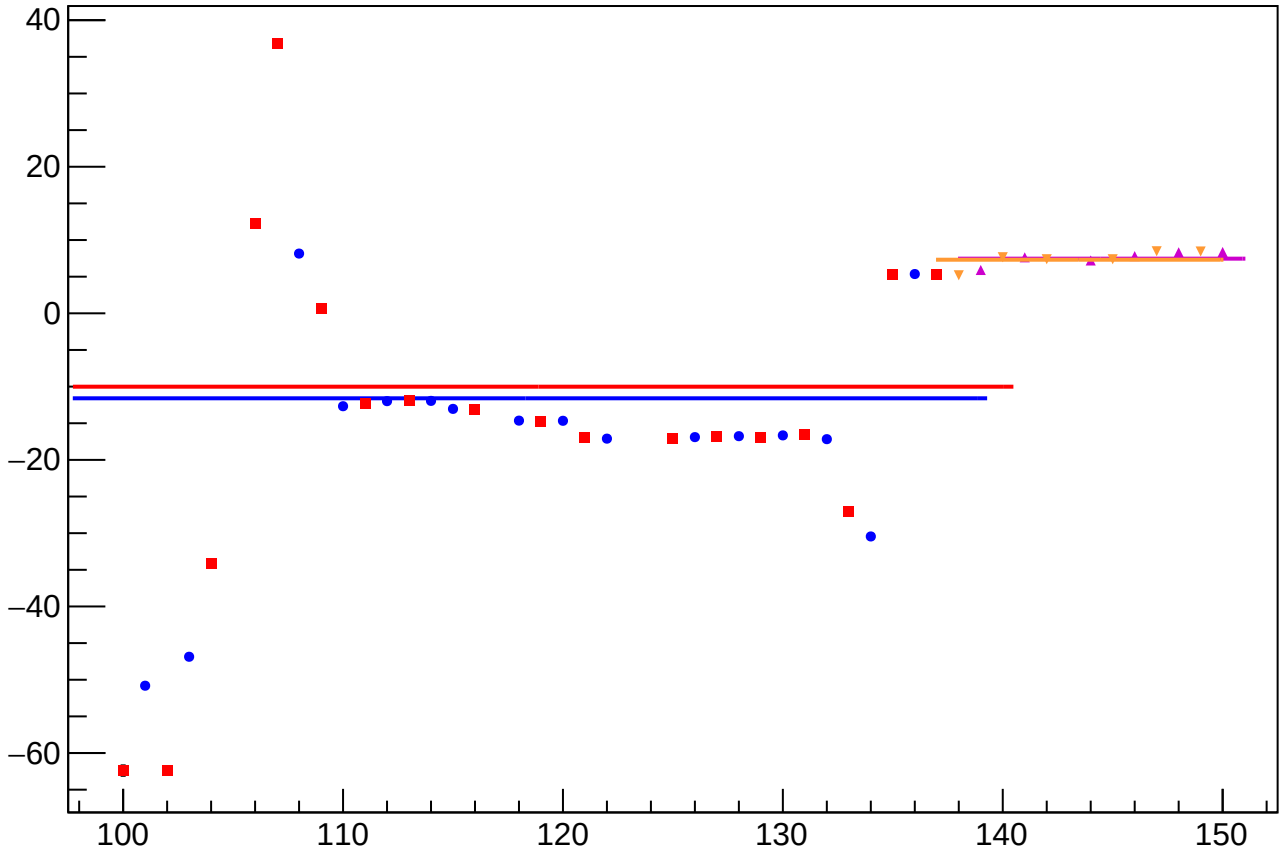
Left: -3.005+/-0.319 $\chi^2$/NDF: 45.9/11

Right: 13.801+/-0.296 $\chi^2$/NDF: 1772.9/33

In: 5.803+/-0.300 $\chi^2$/NDF:1528.9/21

Out: 6.285+/-0.314 $\chi^2$/NDF:1779.0/23

All: 6.033+/-0.217 $\chi^2$/NDF: 3309.1/45




Right In: -11.596+/-0.026 $\chi^2$/NDF: 360523.2/15

Left Out: 7.314+/-0.023 $\chi^2$/NDF:2886.9/5

Right Out: -10.012+/-0.027 $\chi^2$/NDF: 396286.9/17

Left In: 7.459+/-0.021 $\chi^2$/NDF:2037.8/5

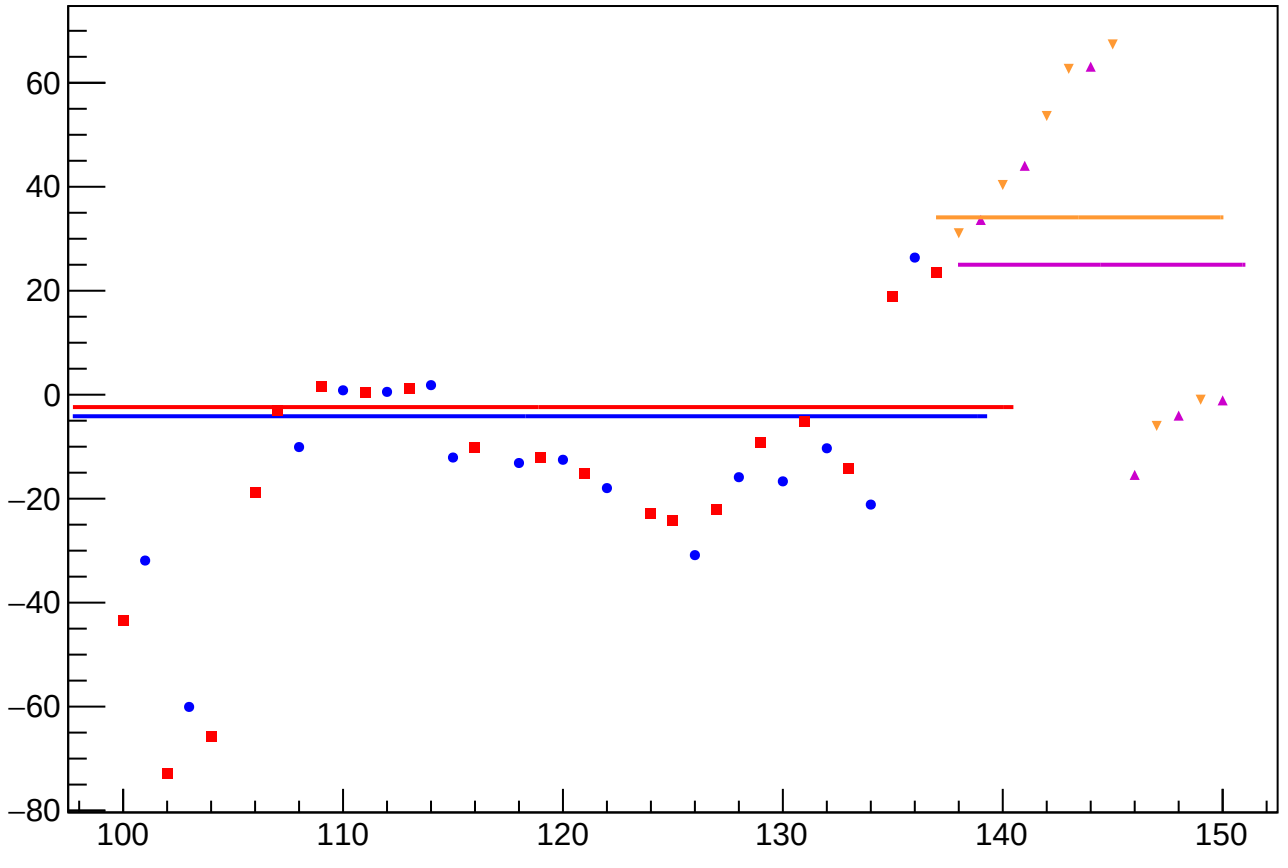
Left: 7.393+/-0.015 $\chi^2$/NDF: 4947.0/11

Right: -10.837+/-0.019 $\chi^2$/NDF: 758546.1/33

In: 0.154+/-0.016 $\chi^2$/NDF:686008.0/21

Out: 0.259+/-0.018 $\chi^2$/NDF:635420.3/23

All: 0.203+/-0.012 $\chi^2$/NDF: 1321447.5/45




Right In: -4.145+/-0.055 $\chi^2$/NDF: 75262.7/15

Left Out: 34.114+/-0.102 $\chi^2$/NDF:54948.1/6

Right Out: -2.382+/-0.046 $\chi^2$/NDF: 80749.3/18

Left In: 25.002+/-0.103 $\chi^2$/NDF:64097.5/5

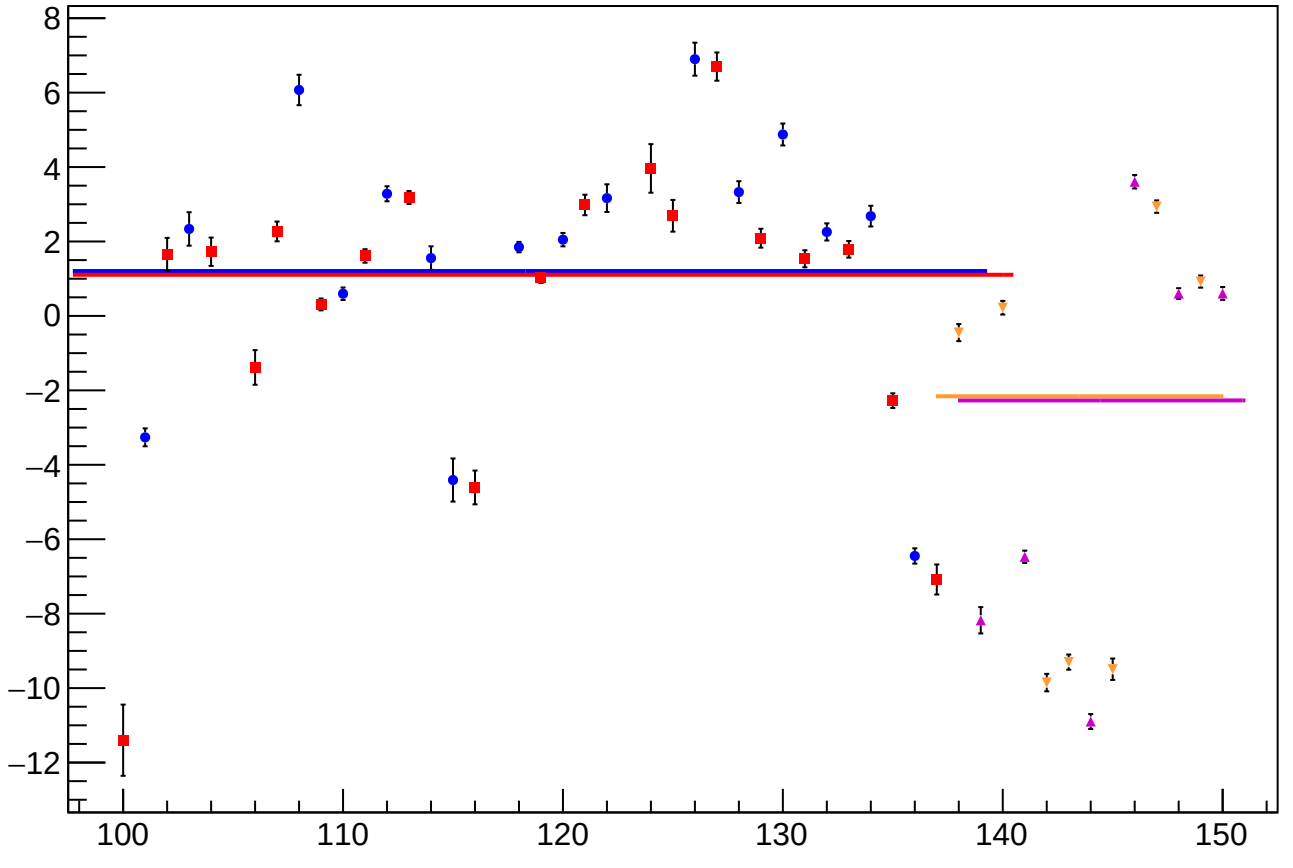
Left: 29.604+/-0.072 $\chi^2$/NDF: 123033.1/12

Right: -3.115+/-0.035 $\chi^2$/NDF: 156619.4/34

In: 2.308+/-0.048 $\chi^2$/NDF:202265.7/21

Out: 3.865+/-0.042 $\chi^2$/NDF:242817.3/25

All: 3.194+/-0.032 $\chi^2$/NDF: 445675.9/47




Right In: 1.206+/-0.060 $\chi^2$/NDF: 2584.4/15

Left Out: -2.159+/-0.075 $\chi^2$/NDF:4460.7/6

Right Out: 1.106+/-0.057 $\chi^2$/NDF: 1587.2/18

Left In: -2.270+/-0.074 $\chi^2$/NDF:4484.9/5

Left: -2.215+/-0.053 $\chi^2$/NDF: 8946.7/12

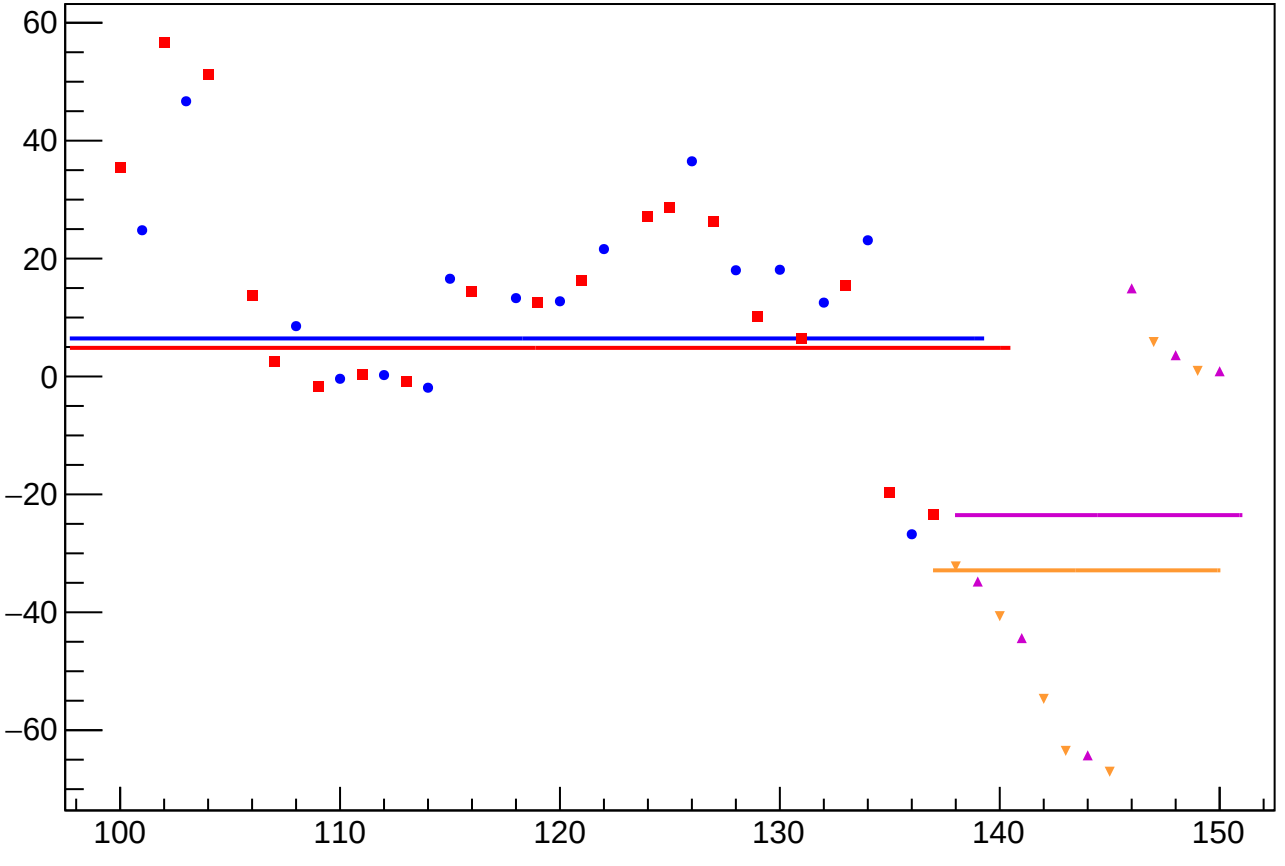
Right: 1.153+/-0.042 $\chi^2$/NDF: 4173.1/34

In: -0.179+/-0.047 $\chi^2$/NDF:8387.6/21

Out: -0.089+/-0.046 $\chi^2$/NDF:7239.2/25

All: -0.133+/-0.033 $\chi^2$/NDF: 15628.8/47

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.453+/-0.065 $\chi^2$/NDF: 70671.1/15

Left Out: -32.885+/-0.102 $\chi^2$/NDF:58668.8/6

Right Out: 4.854+/-0.059 $\chi^2$/NDF: 75267.0/18

Left In: -23.518+/-0.102 $\chi^2$/NDF:67606.0/5

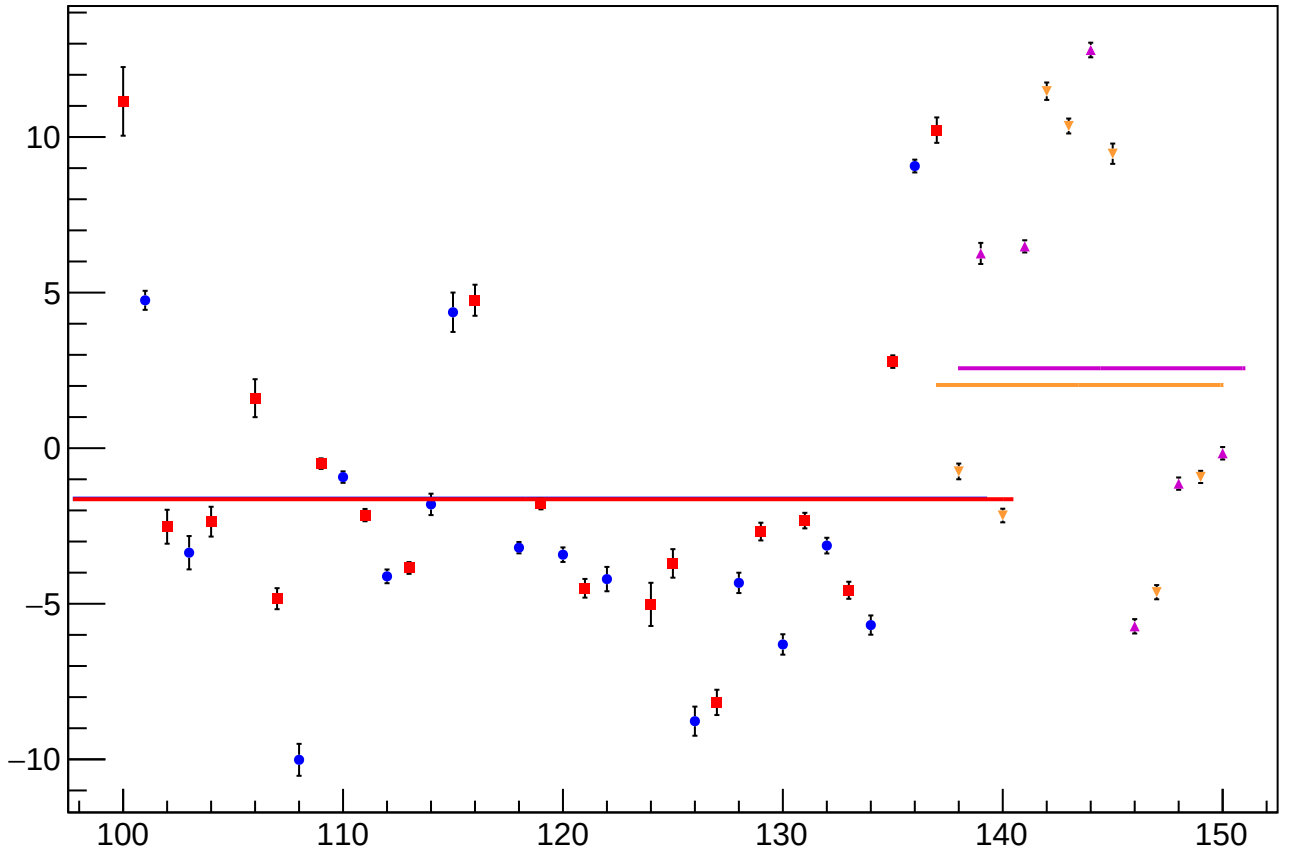
Left: -28.192+/-0.072 $\chi^2$/NDF: 130478.9/12

Right: 5.576+/-0.044 $\chi^2$/NDF: 146268.1/34

In: -2.237+/-0.055 $\chi^2$/NDF:199521.1/21

Out: -4.610+/-0.051 $\chi^2$/NDF:236004.8/25

All: -3.507+/-0.037 $\chi^2$/NDF: 436524.4/47




Right In: -1.622+/-0.070 $\chi^2$/NDF: 4525.3/15

Left Out: 2.031+/-0.091 $\chi^2$/NDF:4426.2/6

Right Out: -1.640+/-0.065 $\chi^2$/NDF: 2462.1/18

Left In: 2.569+/-0.091 $\chi^2$/NDF:4227.7/5

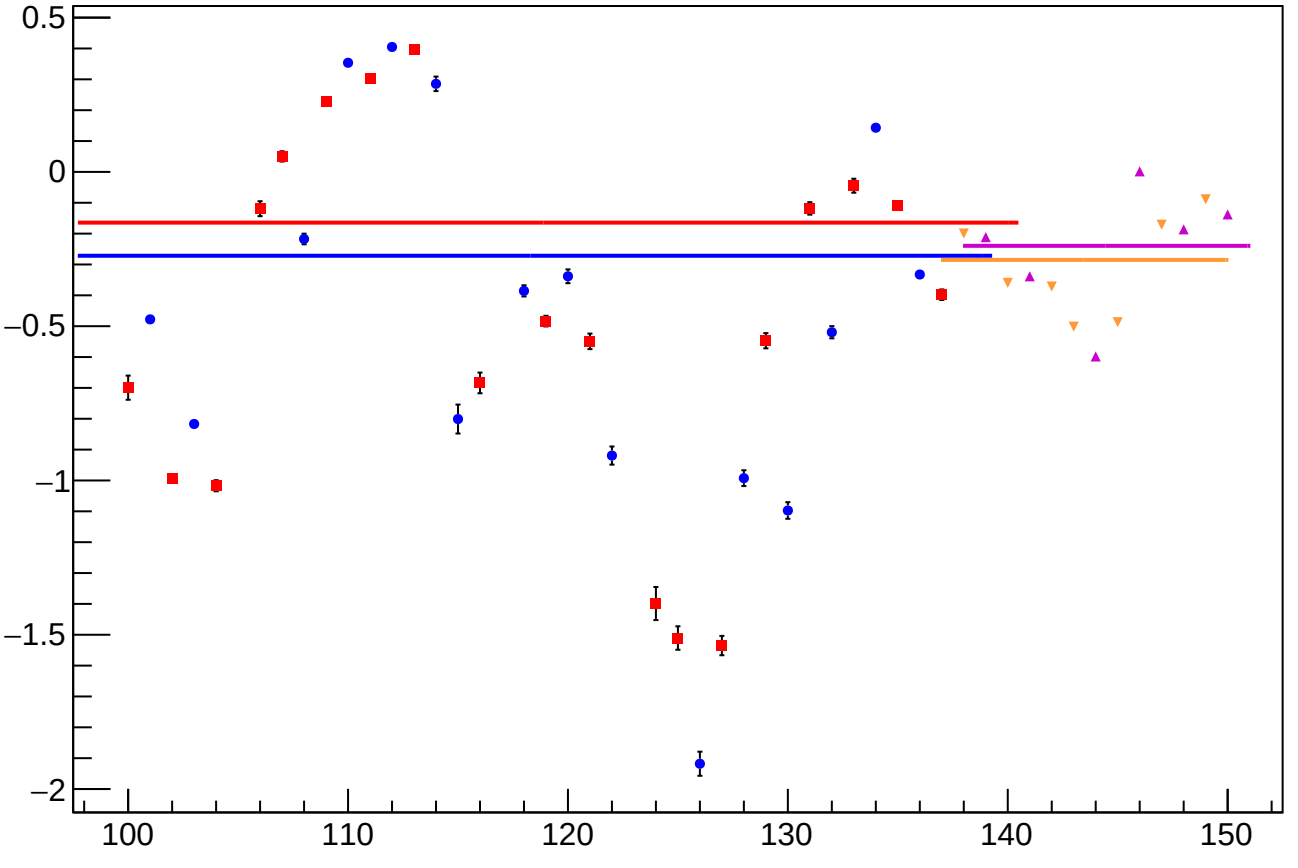
Left: 2.300+/-0.064 $\chi^2$/NDF: 8671.5/12

Right: -1.632+/-0.047 $\chi^2$/NDF: 6987.4/34

In: -0.067+/-0.055 $\chi^2$/NDF:10098.4/21

Out: -0.409+/-0.053 $\chi^2$/NDF:7973.0/25

All: -0.246+/-0.038 $\chi^2$/NDF: 18091.5/47




Right In: -0.272+/-0.004 $\chi^2$/NDF: 12048.2/15

Left Out: -0.285+/-0.004 $\chi^2$/NDF:1189.1/6

Right Out: -0.164+/-0.004 $\chi^2$/NDF: 15497.0/18

Left In: -0.240+/-0.004 $\chi^2$/NDF:1398.4/5

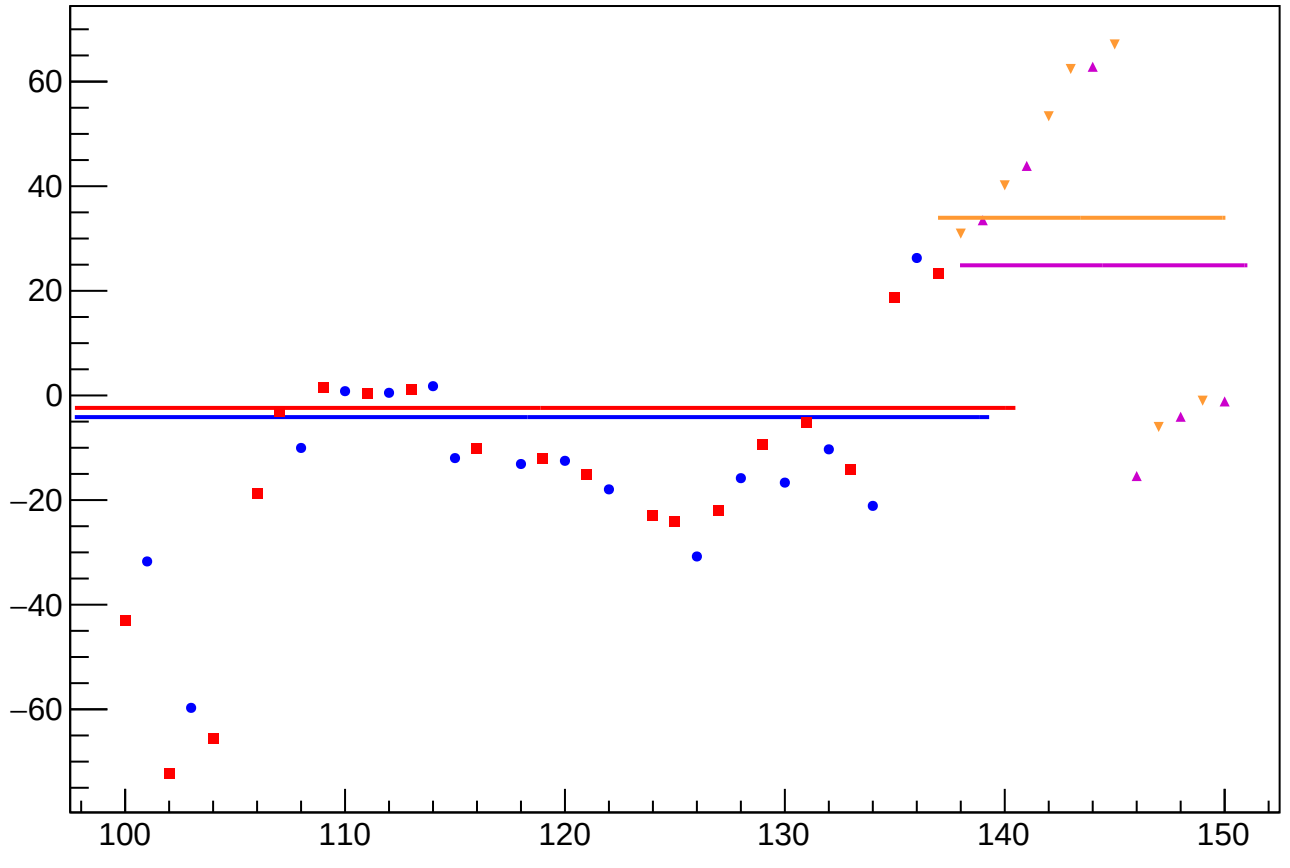
Left: -0.262+/-0.003 $\chi^2$/NDF: 2648.8/12

Right: -0.213+/-0.003 $\chi^2$/NDF: 27909.3/34

In: -0.255+/-0.003 $\chi^2$/NDF:13477.4/21

Out: -0.219+/-0.003 $\chi^2$/NDF:17141.5/25

All: -0.236+/-0.002 $\chi^2$/NDF: 30700.7/47




Right In: -4.139+/-0.054 $\chi^2$/NDF: 75240.1/15

Left Out: 33.969+/-0.101 $\chi^2$/NDF:54902.5/6

Right Out: -2.380+/-0.046 $\chi^2$/NDF: 80668.5/18

Left In: 24.880+/-0.102 $\chi^2$/NDF:64129.9/5

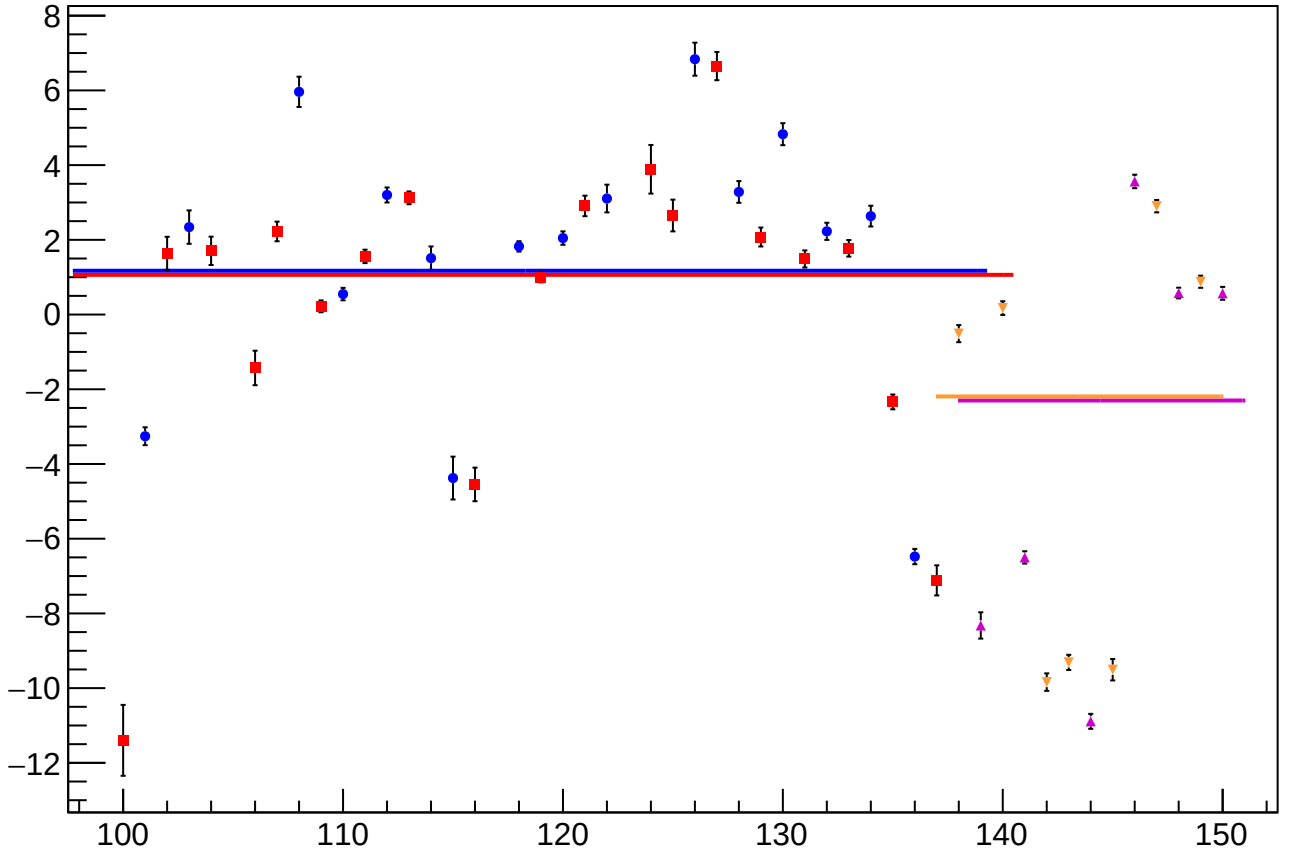
Left: 29.470+/-0.072 $\chi^2$/NDF: 123024.9/12

Right: -3.111+/-0.035 $\chi^2$/NDF: 156520.4/34

In: 2.256+/-0.048 $\chi^2$/NDF:202201.0/21

Out: 3.809+/-0.042 $\chi^2$/NDF:242624.5/25

All: 3.140+/-0.031 $\chi^2$/NDF: 445421.9/47




Right In: 1.172+/-0.060 $\chi^2$/NDF: 2584.5/15

Left Out: -2.192+/-0.075 $\chi^2$/NDF:4458.8/6

Right Out: 1.063+/-0.057 $\chi^2$/NDF: 1596.5/18

Left In: -2.300+/-0.074 $\chi^2$/NDF:4504.7/5

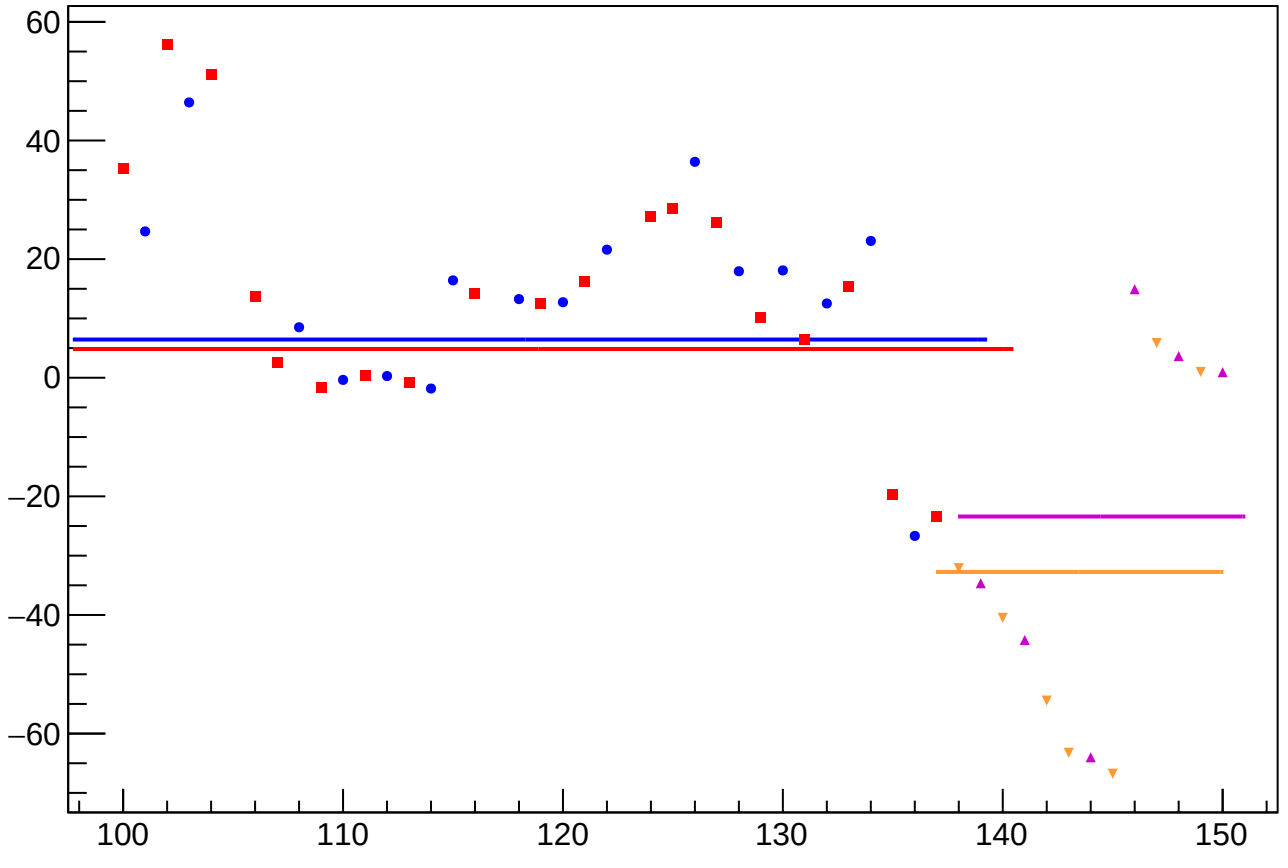
Left: -2.247+/-0.053 $\chi^2$/NDF: 8964.6/12

Right: 1.115+/-0.041 $\chi^2$/NDF: 4182.7/34

In: -0.208+/-0.047 $\chi^2$/NDF:8415.6/21

Out: -0.126+/-0.045 $\chi^2$/NDF:7248.6/25

All: -0.166+/-0.033 $\chi^2$/NDF: 15665.8/47




Right In: 6.442+/-0.065 $\chi^2$/NDF: 70630.3/15

Left Out: -32.743+/-0.102 $\chi^2$/NDF:58616.8/6

Right Out: 4.848+/-0.059 $\chi^2$/NDF: 75159.9/18

Left In: -23.399+/-0.102 $\chi^2$/NDF:67628.4/5

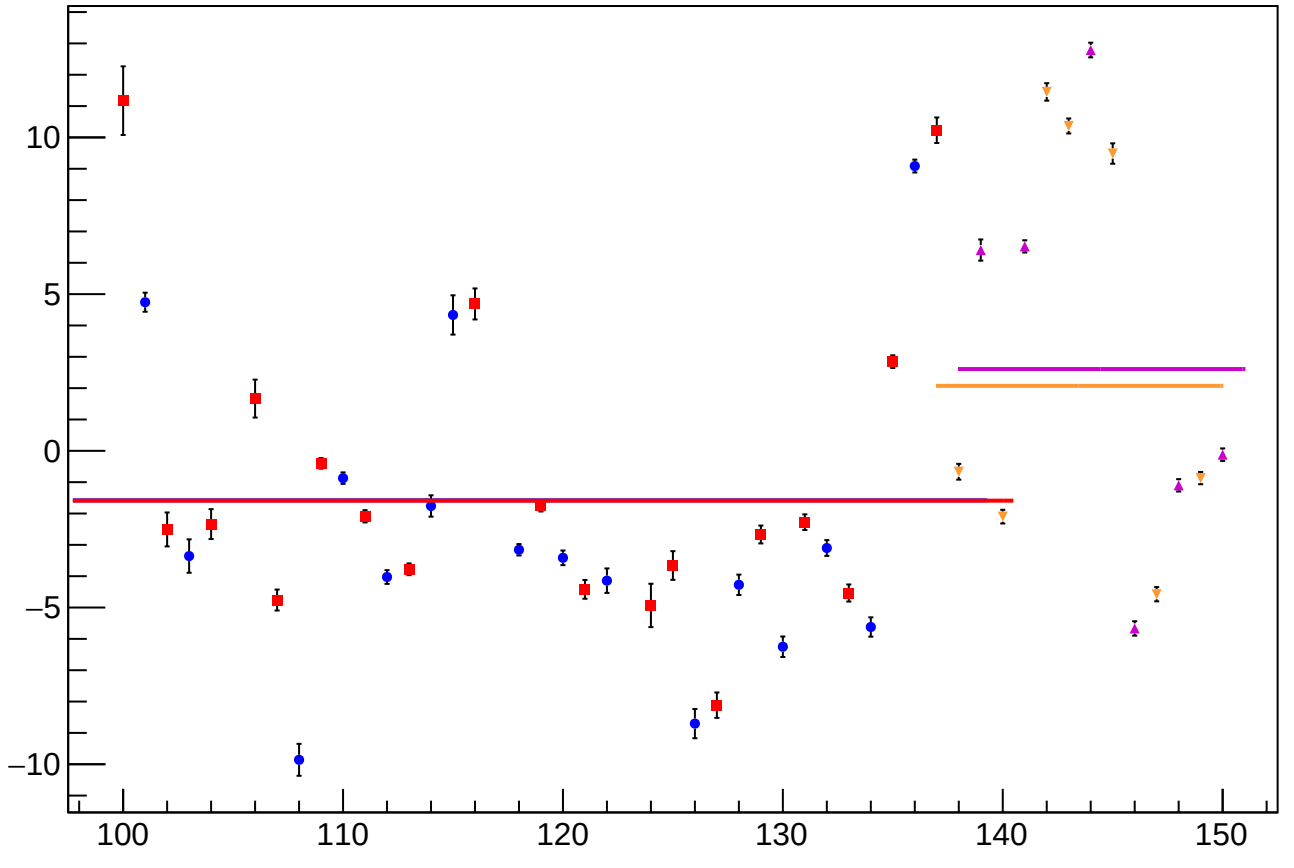
Left: -28.062+/-0.072 $\chi^2$/NDF: 130455.2/12

Right: 5.568+/-0.044 $\chi^2$/NDF: 146121.3/34

In: -2.182+/-0.055 $\chi^2$/NDF:199444.0/21

Out: -4.544+/-0.051 $\chi^2$/NDF:235821.9/25

All: -3.446+/-0.037 $\chi^2$/NDF: 436265.4/47




Right In: -1.580+/-0.069 $\chi^2$/NDF: 4524.3/15

Left Out: 2.073+/-0.091 $\chi^2$/NDF:4418.3/6

Right Out: -1.589+/-0.064 $\chi^2$/NDF: 2472.2/18

Left In: 2.610+/-0.090 $\chi^2$/NDF:4239.3/5

Left: 2.342+/-0.064 $\chi^2$/NDF: 8675.1/12

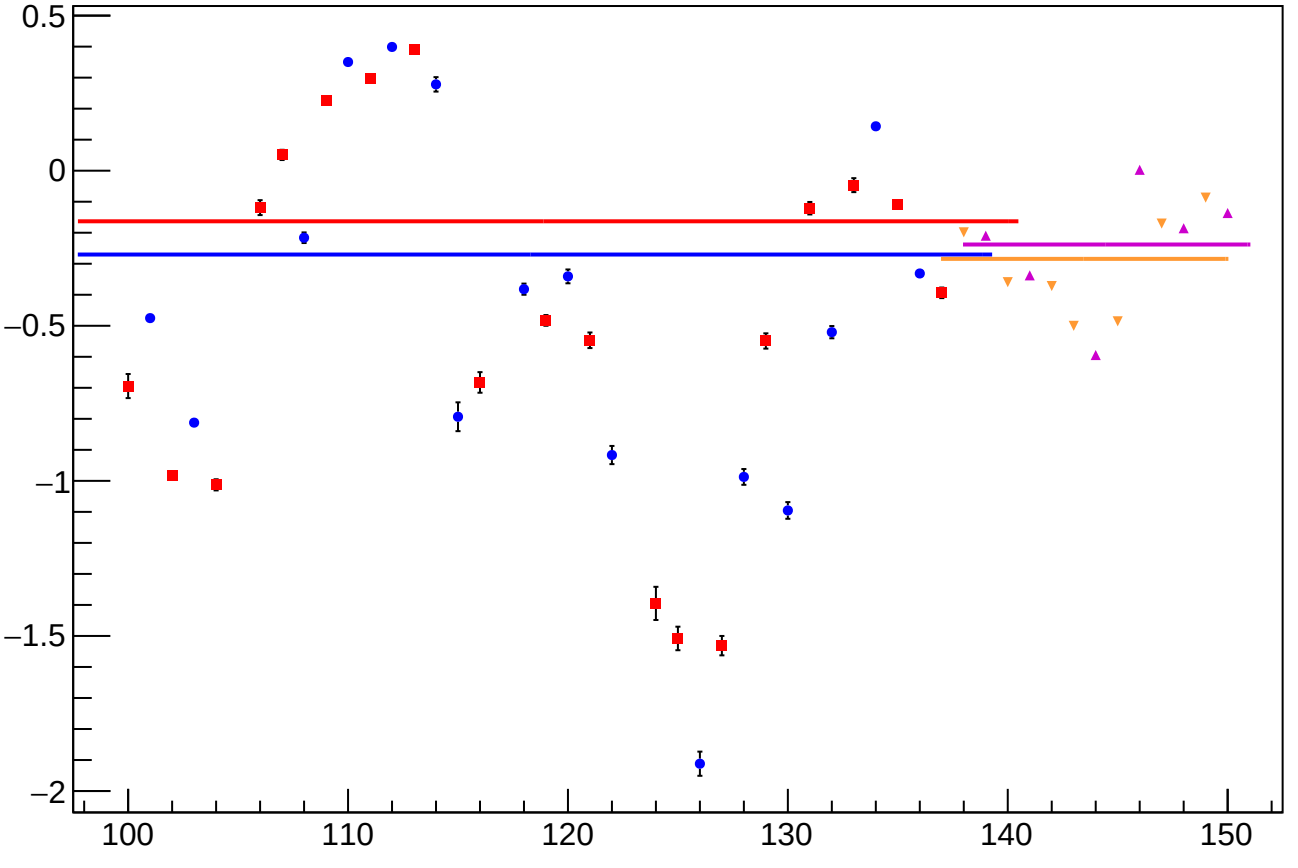
Right: -1.585+/-0.047 $\chi^2$/NDF: 6996.4/34

In: -0.029+/-0.055 $\chi^2$/NDF:10119.3/21

Out: -0.363+/-0.052 $\chi^2$/NDF:7978.6/25

All: -0.204+/-0.038 $\chi^2$/NDF: 18117.3/47

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.270+/-0.004 $\chi^2$/NDF: 12036.3/15

Left Out: -0.284+/-0.004 $\chi^2$/NDF:1200.1/6

Right Out: -0.163+/-0.004 $\chi^2$/NDF: 15510.0/18

Left In: -0.238+/-0.004 $\chi^2$/NDF:1396.9/5

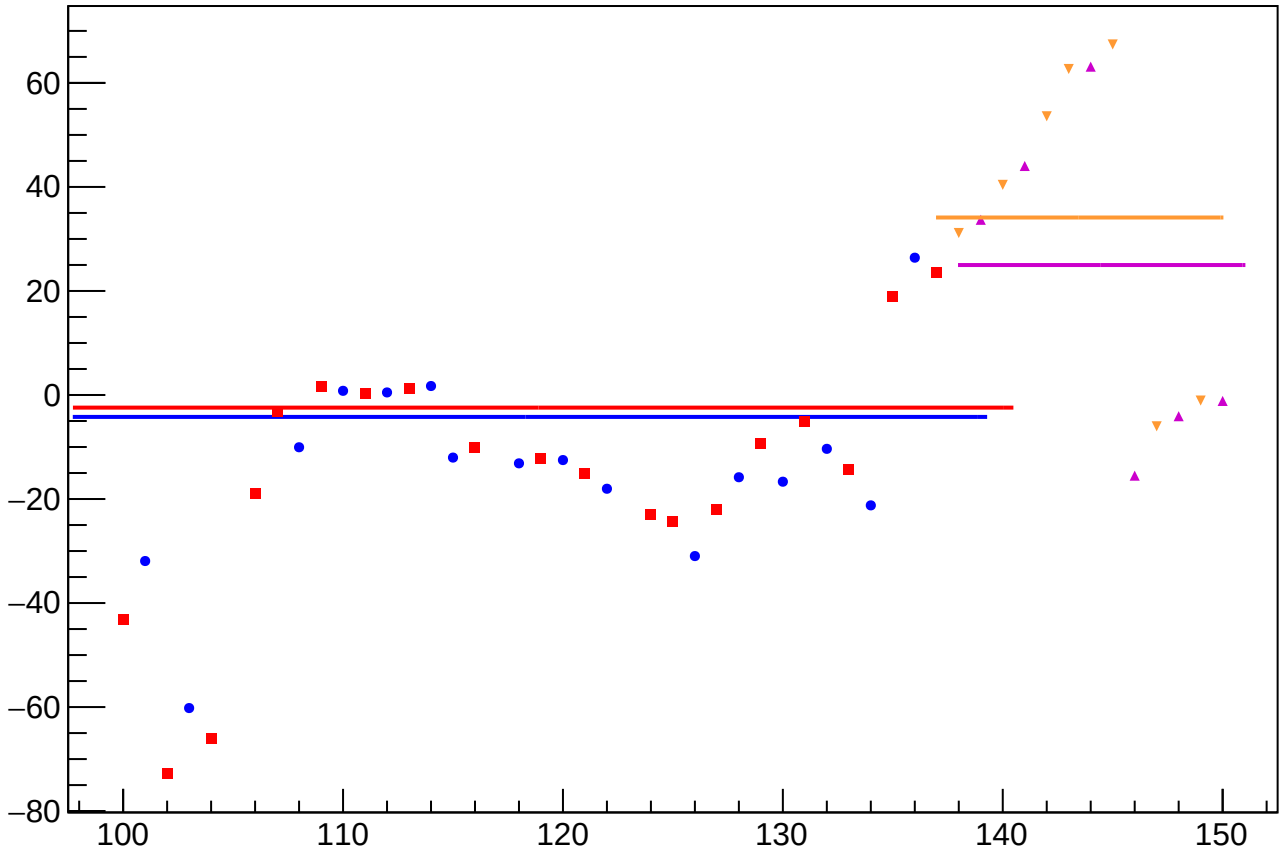
Left: -0.260+/-0.003 $\chi^2$/NDF: 2660.1/12

Right: -0.212+/-0.003 $\chi^2$/NDF: 27912.3/34

In: -0.254+/-0.003 $\chi^2$/NDF:13464.4/21

Out: -0.217+/-0.003 $\chi^2$/NDF:17170.7/25

All: -0.235+/-0.002 $\chi^2$/NDF: 30716.3/47




Right In: -4.214+/-0.055 $\chi^2$/NDF: 75215.4/15

Left Out: 34.124+/-0.102 $\chi^2$/NDF:55027.6/6

Right Out: -2.427+/-0.046 $\chi^2$/NDF: 80724.5/18

Left In: 24.987+/-0.103 $\chi^2$/NDF:64169.6/5

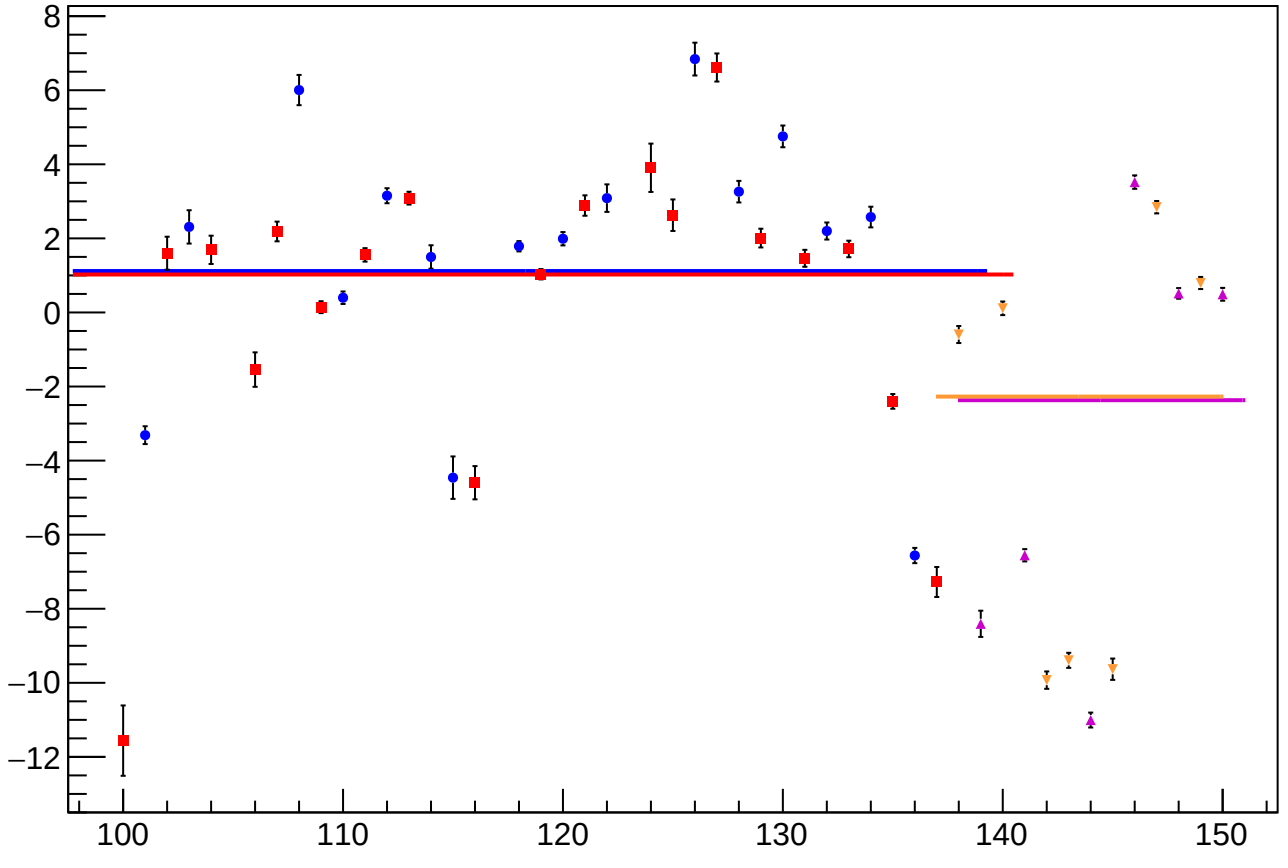
Left: 29.602+/-0.072 $\chi^2$/NDF: 123198.4/12

Right: -3.171+/-0.035 $\chi^2$/NDF: 156563.0/34

In: 2.245+/-0.048 $\chi^2$/NDF:202398.2/21

Out: 3.828+/-0.042 $\chi^2$/NDF:242971.4/25

All: 3.145+/-0.032 $\chi^2$/NDF: 445981.5/47




Right In: 1.118+/-0.060 $\chi^2$/NDF: 2591.7/15

Left Out: -2.272+/-0.075 $\chi^2$/NDF:4444.4/6

Right Out: 1.025+/-0.057 $\chi^2$/NDF: 1612.0/18

Left In: -2.369+/-0.074 $\chi^2$/NDF:4491.9/5

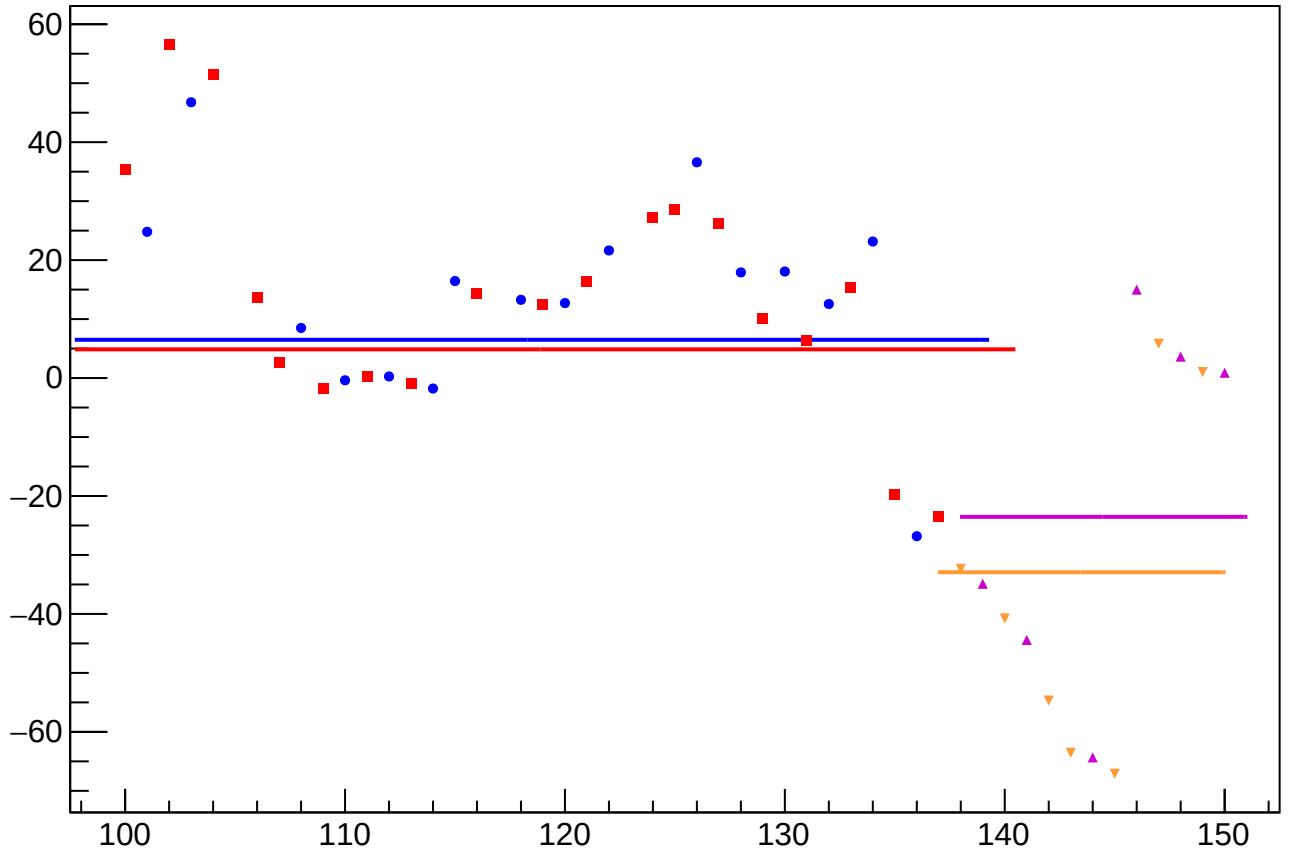
Left: -2.321+/-0.053 $\chi^2$/NDF: 8937.2/12

Right: 1.069+/-0.042 $\chi^2$/NDF: 4205.0/34

In: -0.269+/-0.047 $\chi^2$/NDF:8409.0/21

Out: -0.181+/-0.046 $\chi^2$/NDF:7269.1/25

All: -0.224+/-0.033 $\chi^2$/NDF: 15680.0/47




Right In: 6.492+/-0.065 $\chi^2$/NDF: 70623.9/15

Left Out: -32.924+/-0.102 $\chi^2$/NDF:58771.1/6

Right Out: 4.869+/-0.059 $\chi^2$/NDF: 75265.6/18

Left In: -23.534+/-0.102 $\chi^2$/NDF:67684.4/5

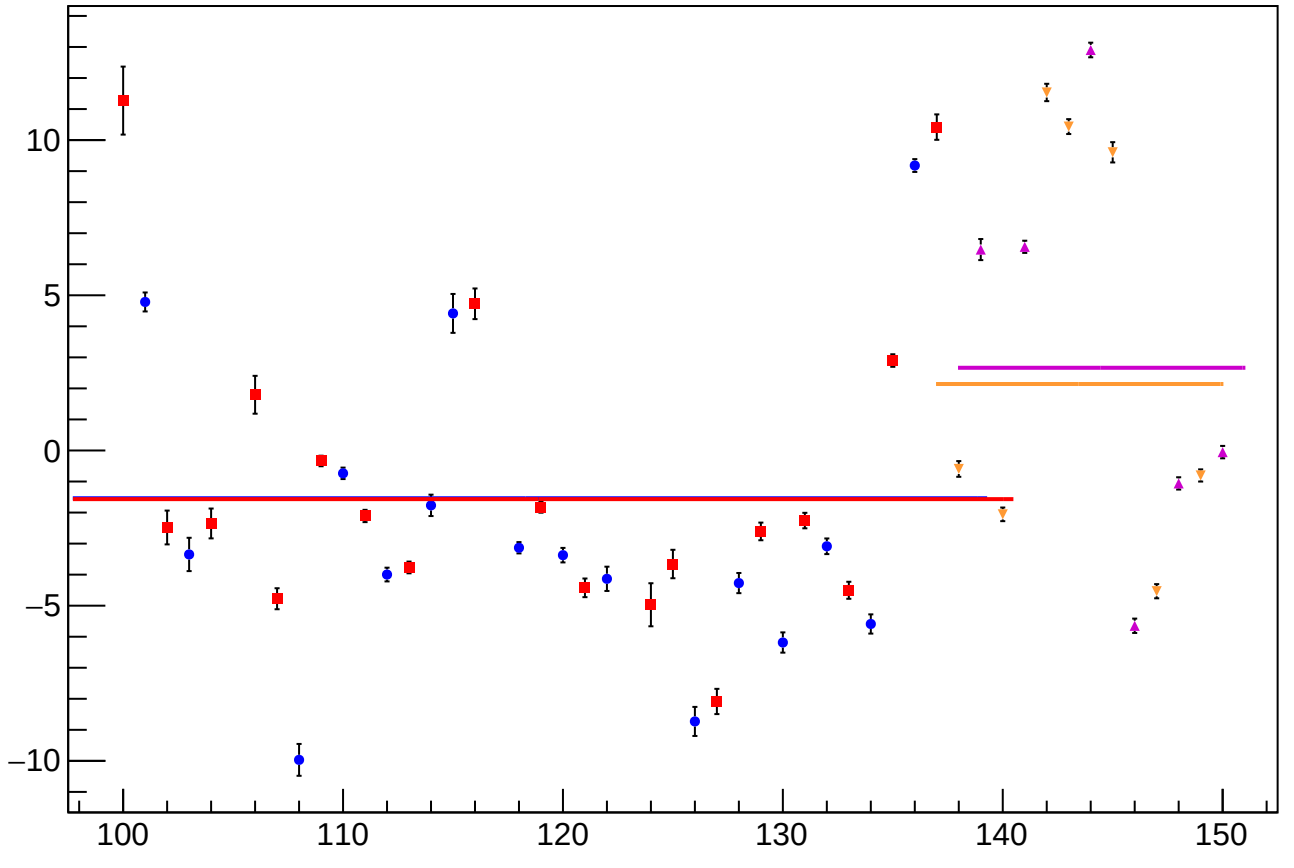
Left: -28.220+/-0.072 $\chi^2$/NDF: 130671.1/12

Right: 5.602+/-0.044 $\chi^2$/NDF: 146229.3/34

In: -2.203+/-0.055 $\chi^2$/NDF:199678.5/21

Out: -4.605+/-0.051 $\chi^2$/NDF:236205.1/25

All: -3.488+/-0.037 $\chi^2$/NDF: 436904.5/47




Right In: -1.540+/-0.070 $\chi^2$/NDF: 4535.9/15

Left Out: 2.142+/-0.091 $\chi^2$/NDF:4405.7/6

Right Out: -1.567+/-0.065 $\chi^2$/NDF: 2497.0/18

Left In: 2.665+/-0.091 $\chi^2$/NDF:4233.6/5

Left: 2.404+/-0.064 $\chi^2$/NDF: 8655.9/12

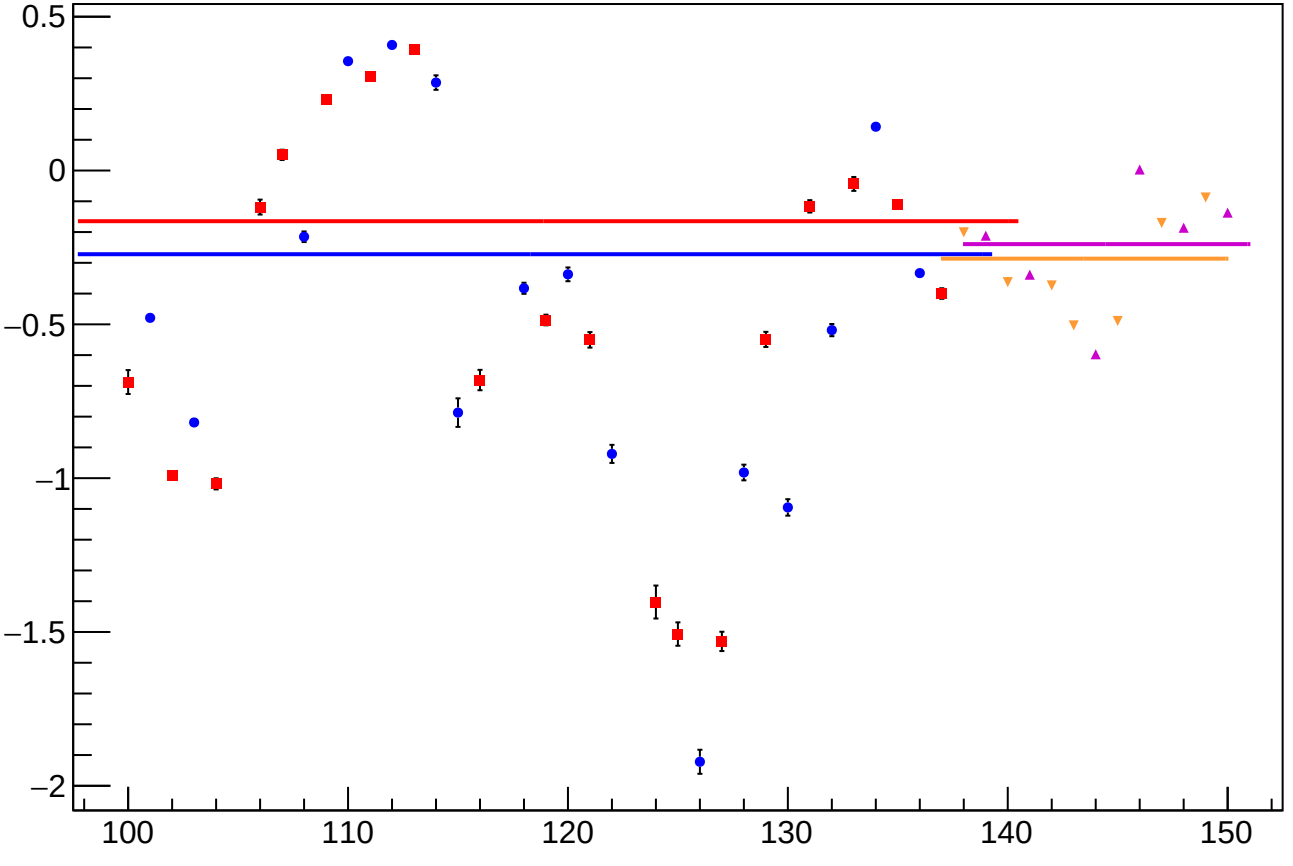
Right: -1.555+/-0.047 $\chi^2$/NDF: 7032.9/34

In: 0.018+/-0.055 $\chi^2$/NDF:10122.8/21

Out: -0.323+/-0.053 $\chi^2$/NDF:8008.6/25

All: -0.161+/-0.038 $\chi^2$/NDF: 18151.4/47

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.272+/-0.004 $\chi^2$/NDF: 12063.6/15

Left Out: -0.286+/-0.004 $\chi^2$/NDF:1206.0/6

Right Out: -0.165+/-0.004 $\chi^2$/NDF: 15490.5/18

Left In: -0.239+/-0.004 $\chi^2$/NDF:1398.1/5

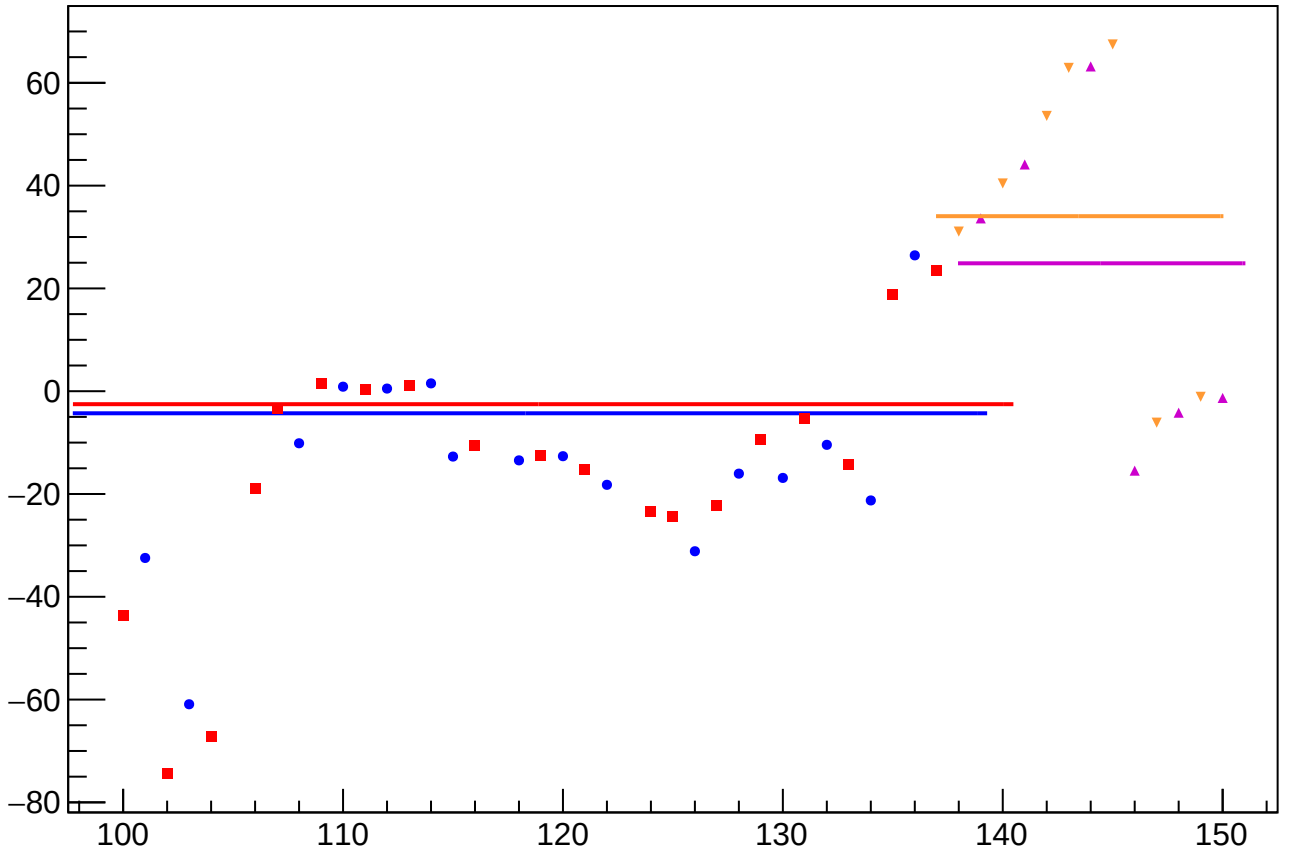
Left: -0.262+/-0.003 $\chi^2$/NDF: 2669.2/12

Right: -0.214+/-0.003 $\chi^2$/NDF: 27917.4/34

In: -0.255+/-0.003 $\chi^2$/NDF:13493.6/21

Out: -0.219+/-0.003 $\chi^2$/NDF:17157.2/25

All: -0.237+/-0.002 $\chi^2$/NDF: 30729.3/47




Right In: -4.296+/-0.056 $\chi^2$/NDF: 74218.3/15

Left Out: 34.055+/-0.102 $\chi^2$/NDF:54612.9/6

Right Out: -2.524+/-0.047 $\chi^2$/NDF: 79883.8/18

Left In: 24.885+/-0.104 $\chi^2$/NDF:63467.6/5

Left: 29.522+/-0.073 $\chi^2$/NDF: 122042.0/12

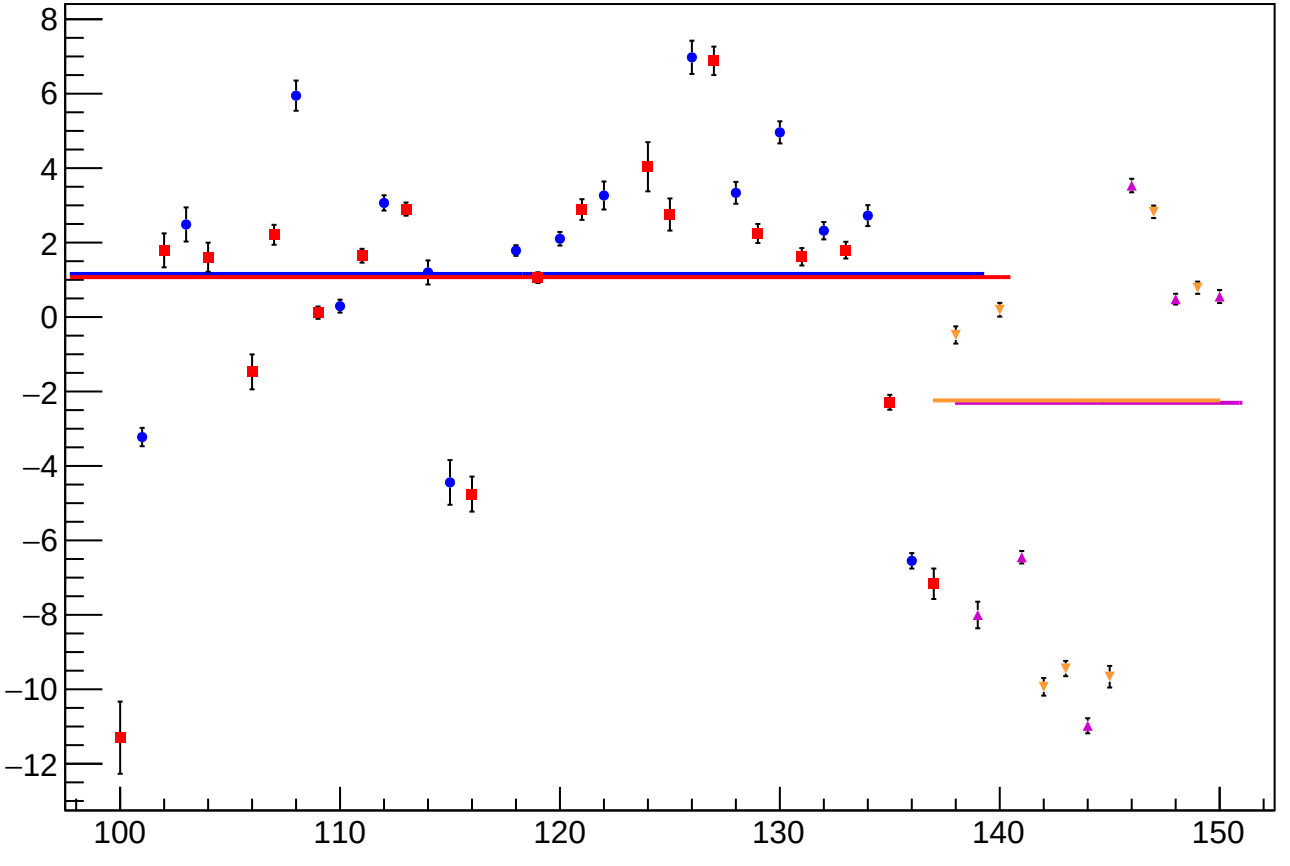
Right: -3.265+/-0.036 $\chi^2$/NDF: 154689.9/34

In: 2.254+/-0.049 $\chi^2$/NDF:199215.1/21

Out: 3.889+/-0.043 $\chi^2$/NDF:239663.3/25

All: 3.181+/-0.032 $\chi^2$/NDF: 439507.4/47

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.158+/-0.062 $\chi^2$/NDF: 2549.9/15

Left Out: -2.241+/-0.076 $\chi^2$/NDF:4407.8/6

Right Out: 1.072+/-0.058 $\chi^2$/NDF: 1551.4/18

Left In: -2.304+/-0.075 $\chi^2$/NDF:4351.3/5

Left: -2.273+/-0.053 $\chi^2$/NDF: 8759.4/12

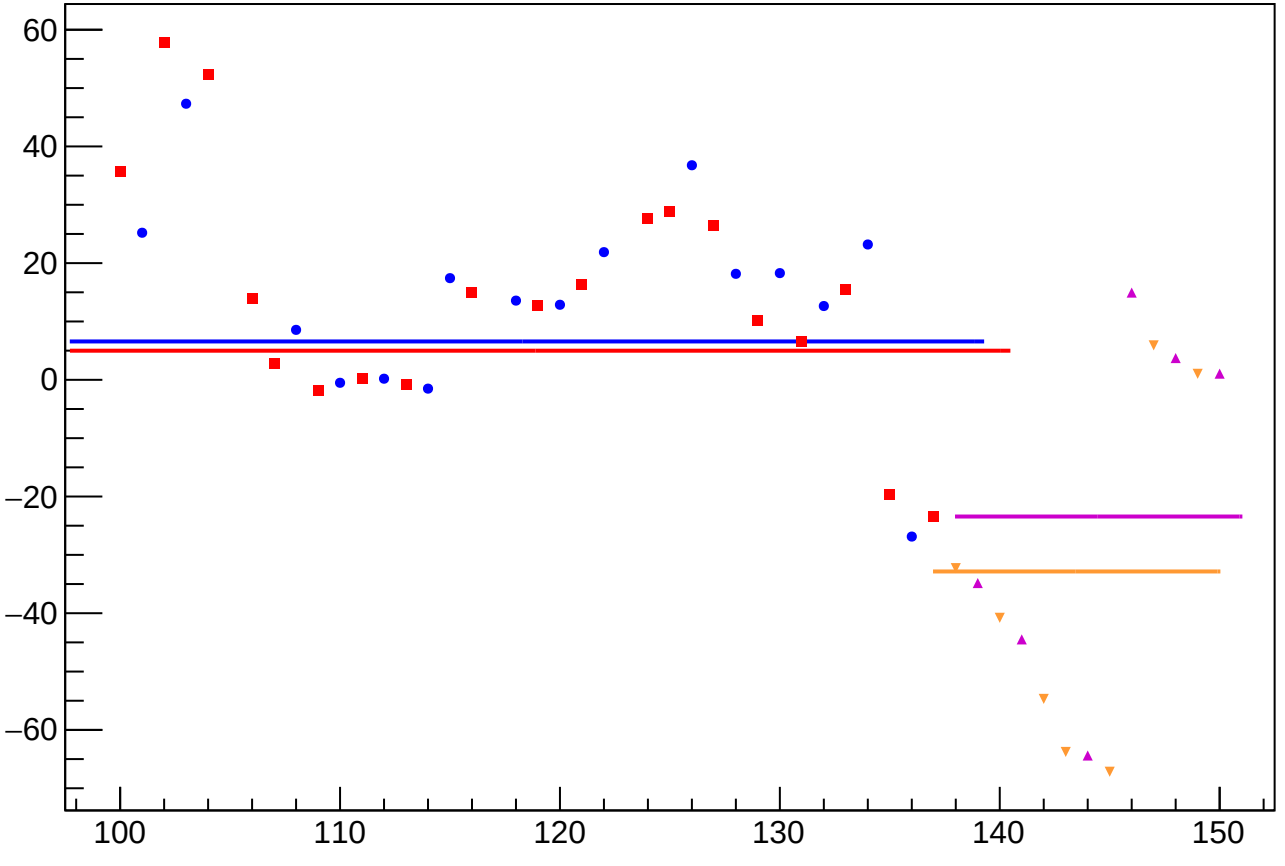
Right: 1.113+/-0.042 $\chi^2$/NDF: 4102.4/34

In: -0.236+/-0.048 $\chi^2$/NDF:8176.4/21

Out: -0.158+/-0.046 $\chi^2$/NDF:7155.8/25

All: -0.196+/-0.033 $\chi^2$/NDF: 15333.6/47

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.578+/-0.066 $\chi^2$/NDF: 69731.5/15

Left Out: -32.845+/-0.103 $\chi^2$/NDF:58293.5/6

Right Out: 4.992+/-0.060 $\chi^2$/NDF: 74461.3/18

Left In: -23.428+/-0.103 $\chi^2$/NDF:66907.2/5

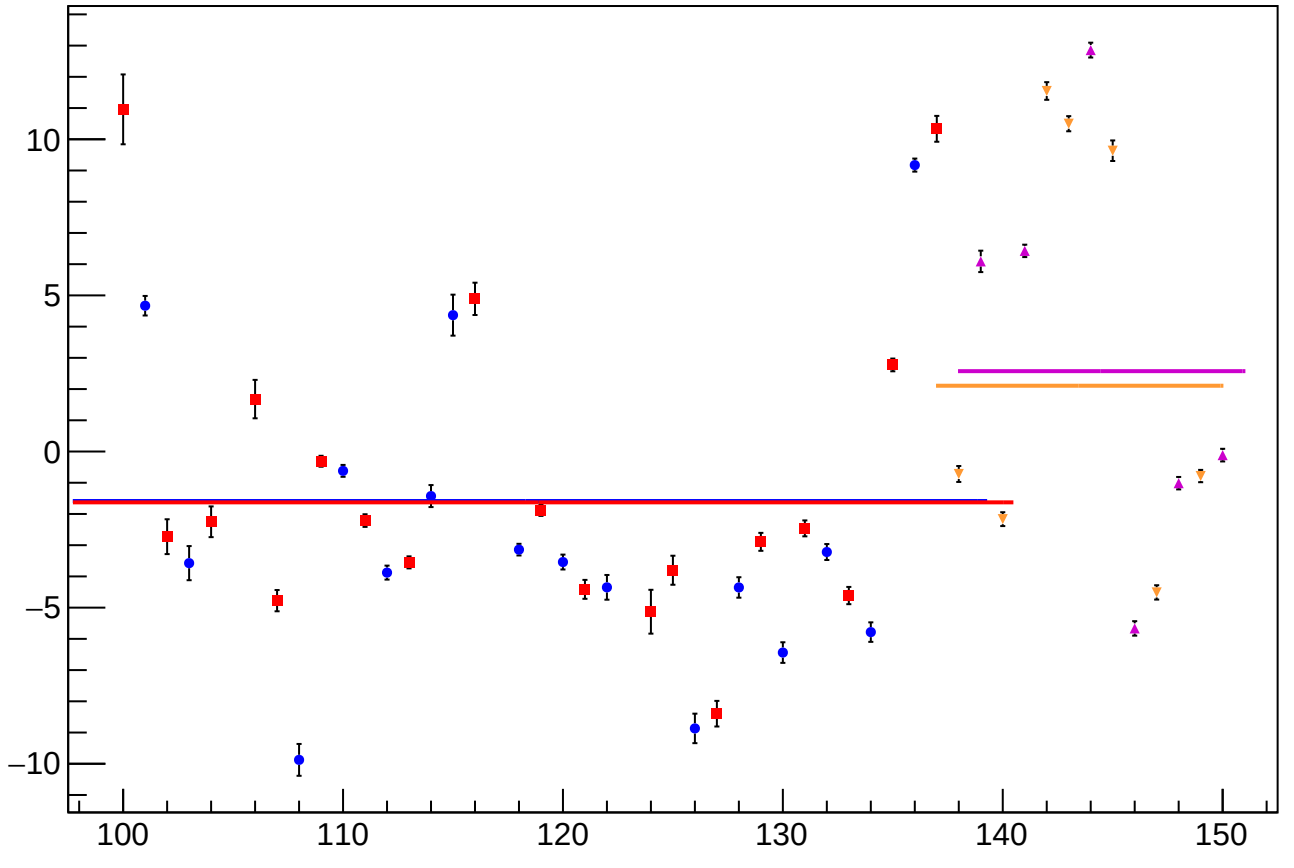
Left: -28.134+/-0.073 $\chi^2$/NDF: 129370.9/12

Right: 5.710+/-0.045 $\chi^2$/NDF: 144504.9/34

In: -2.219+/-0.056 $\chi^2$/NDF:196520.0/21

Out: -4.674+/-0.052 $\chi^2$/NDF:232945.2/25

All: -3.530+/-0.038 $\chi^2$/NDF: 430498.2/47




Right In: -1.586+/-0.071 $\chi^2$/NDF: 4472.6/15

Left Out: 2.107+/-0.092 $\chi^2$/NDF:4377.8/6

Right Out: -1.628+/-0.066 $\chi^2$/NDF: 2422.3/18

Left In: 2.574+/-0.091 $\chi^2$/NDF:4111.5/5

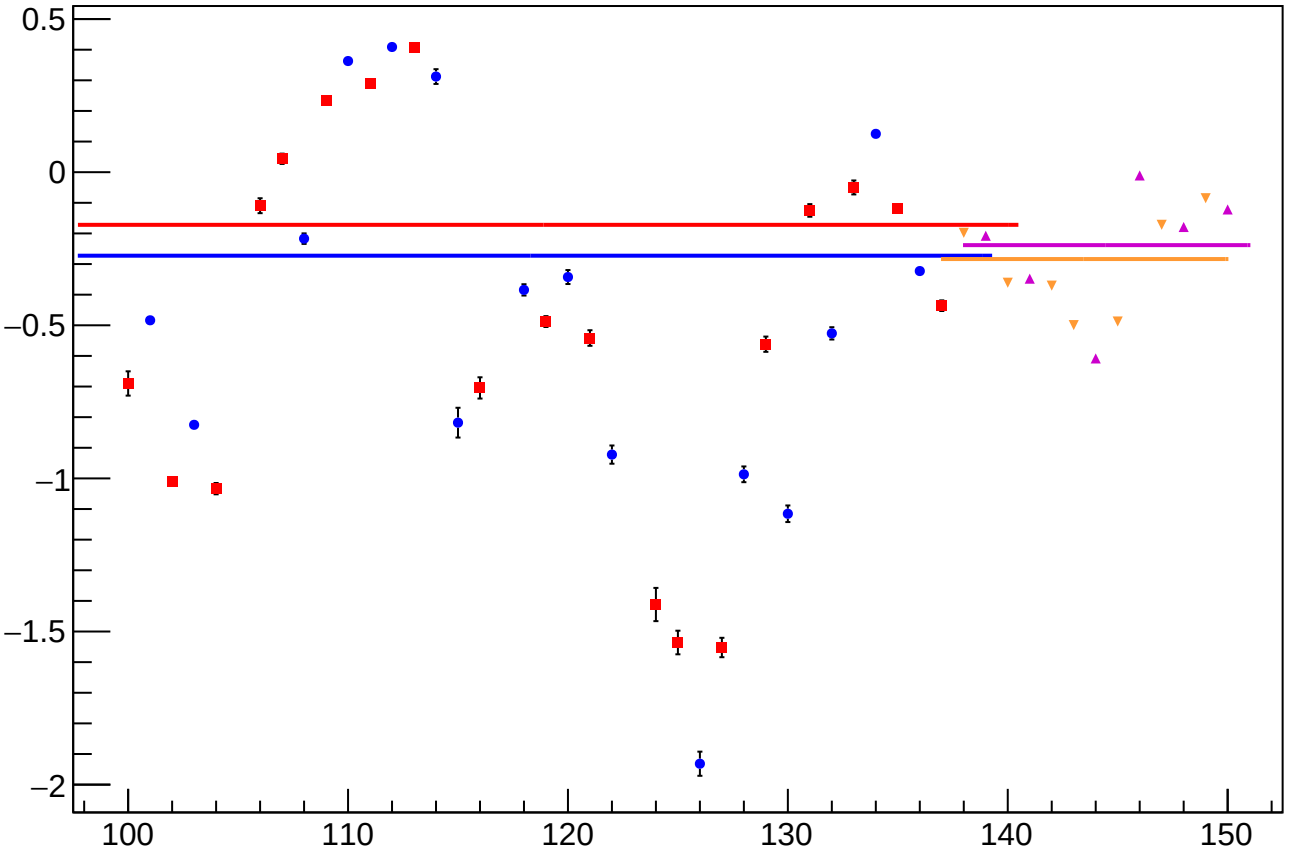
Left: 2.341+/-0.065 $\chi^2$/NDF: 8502.3/12

Right: -1.609+/-0.048 $\chi^2$/NDF: 6895.1/34

In: -0.027+/-0.056 $\chi^2$/NDF:9877.4/21

Out: -0.356+/-0.053 $\chi^2$/NDF:7896.2/25

All: -0.199+/-0.039 $\chi^2$/NDF: 17791.6/47




Right In: -0.273+/-0.004 $\chi^2$/NDF: 11856.3/15

Left Out: -0.284+/-0.004 $\chi^2$/NDF:1183.9/6

Right Out: -0.172+/-0.004 $\chi^2$/NDF: 15322.3/18

Left In: -0.238+/-0.004 $\chi^2$/NDF:1455.6/5

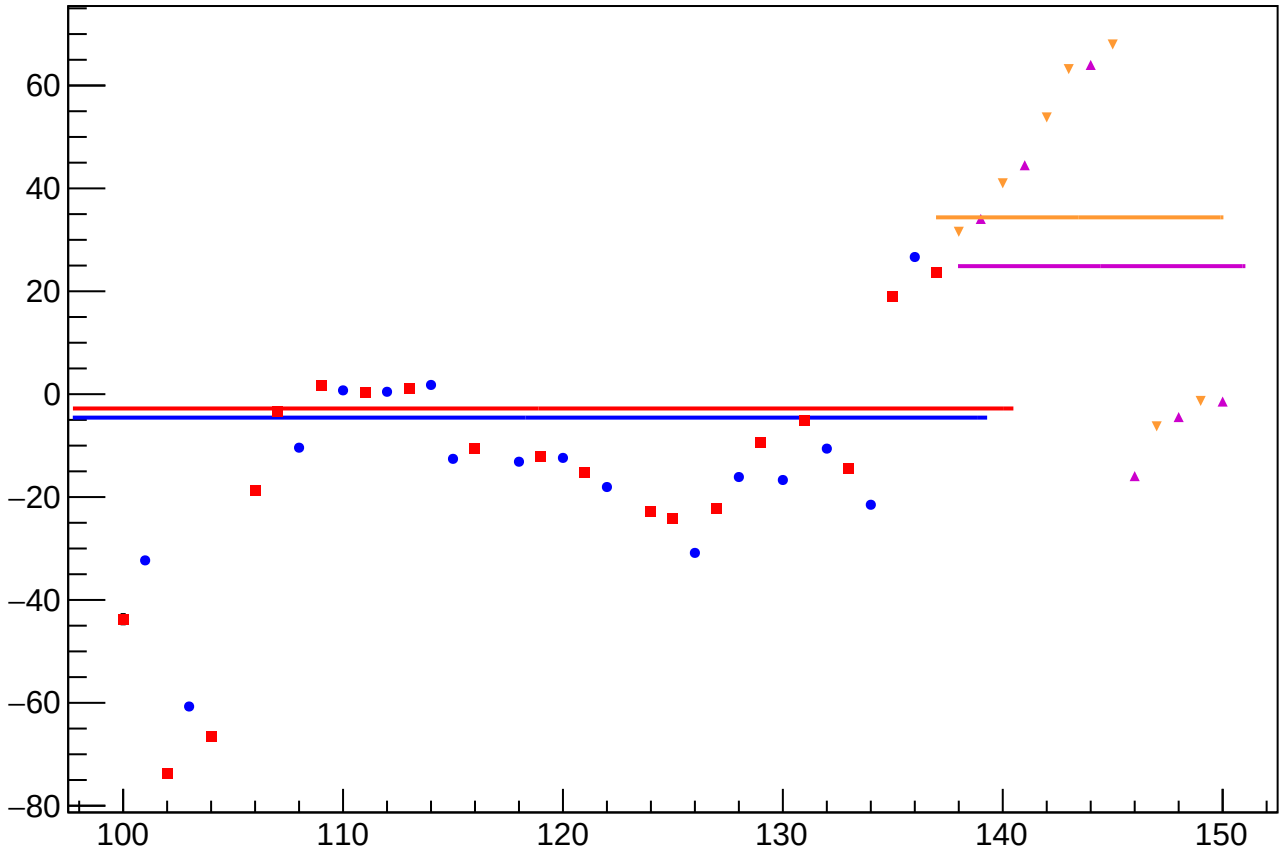
Left: -0.260+/-0.003 $\chi^2$/NDF: 2698.9/12

Right: -0.218+/-0.003 $\chi^2$/NDF: 27488.4/34

In: -0.255+/-0.003 $\chi^2$/NDF:13346.3/21

Out: -0.223+/-0.003 $\chi^2$/NDF:16885.0/25

All: -0.238+/-0.002 $\chi^2$/NDF: 30293.3/47




Right In: -4.557+/-0.057 $\chi^2$/NDF: 72635.2/15

Left Out: 34.371+/-0.104 $\chi^2$/NDF:53894.8/6

Right Out: -2.780+/-0.049 $\chi^2$/NDF: 77905.3/18

Left In: 24.886+/-0.105 $\chi^2$/NDF:63554.4/5

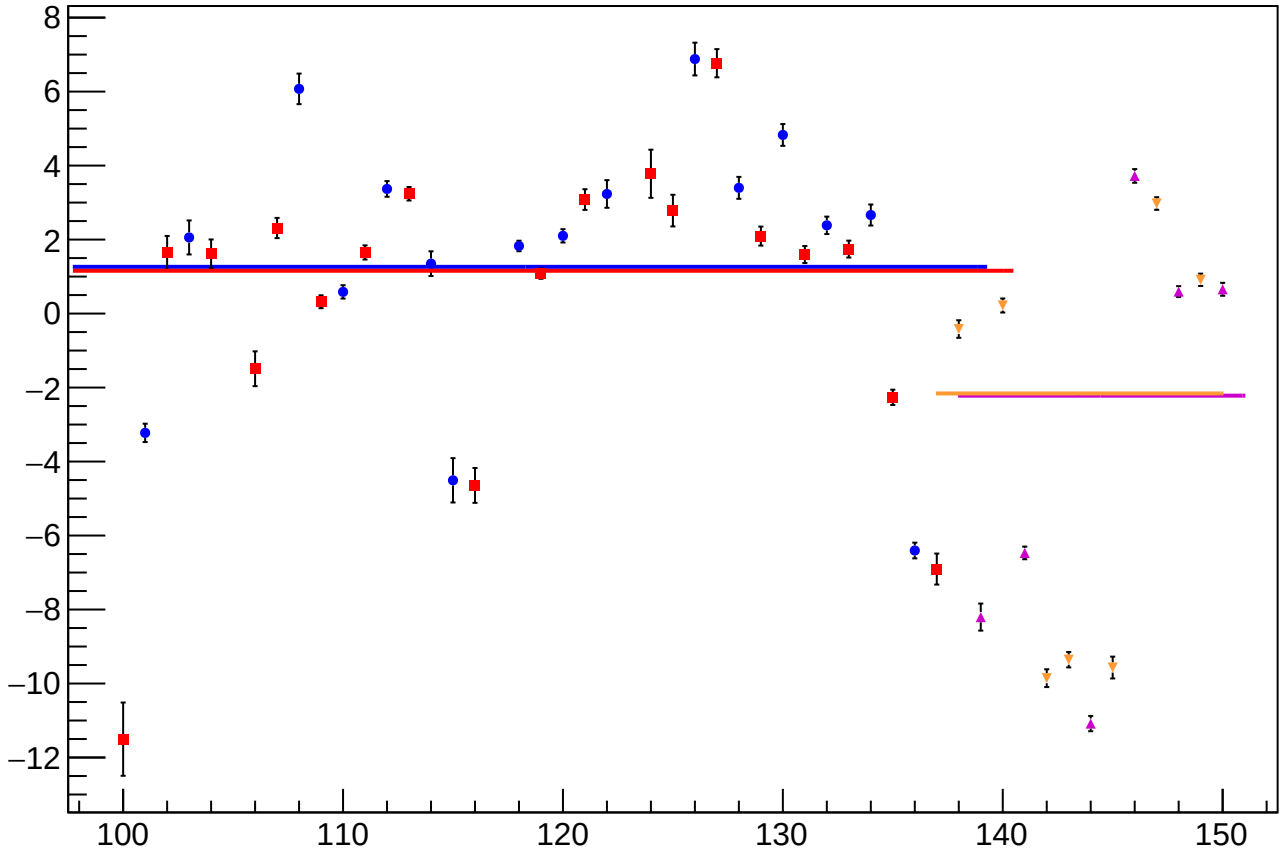
Left: 29.665+/-0.074 $\chi^2$/NDF: 121540.4/12

Right: -3.530+/-0.037 $\chi^2$/NDF: 151106.4/34

In: 2.084+/-0.050 $\chi^2$/NDF:196797.8/21

Out: 3.812+/-0.044 $\chi^2$/NDF:235864.2/25

All: 3.058+/-0.033 $\chi^2$/NDF: 433335.0/47




Right In: 1.263+/-0.062 $\chi^2$/NDF: 2443.8/15

Left Out: -2.159+/-0.077 $\chi^2$/NDF:4304.5/6

Right Out: 1.157+/-0.059 $\chi^2$/NDF: 1490.5/18

Left In: -2.219+/-0.076 $\chi^2$/NDF:4388.3/5

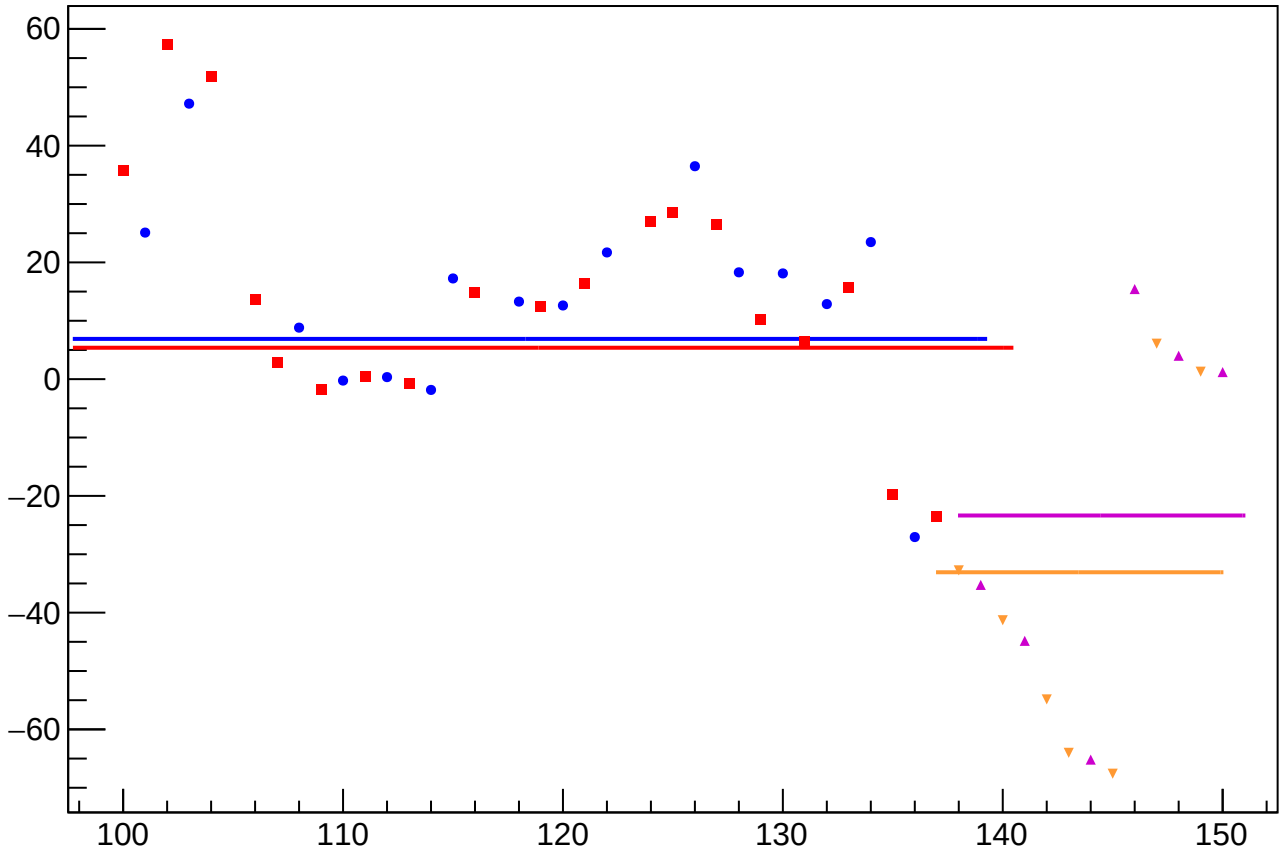
Left: -2.190+/-0.054 $\chi^2$/NDF: 8693.1/12

Right: 1.208+/-0.043 $\chi^2$/NDF: 3935.9/34

In: -0.129+/-0.048 $\chi^2$/NDF:8092.2/21

Out: -0.068+/-0.047 $\chi^2$/NDF:6958.2/25

All: -0.098+/-0.034 $\chi^2$/NDF: 15051.3/47




Right In: 6.895+/-0.067 $\chi^2$/NDF: 68047.4/15

Left Out: -33.083+/-0.105 $\chi^2$/NDF:57536.2/6

Right Out: 5.381+/-0.062 $\chi^2$/NDF: 72230.2/18

Left In: -23.358+/-0.105 $\chi^2$/NDF:66920.4/5

Left: -28.199+/-0.074 $\chi^2$/NDF: 128752.4/12

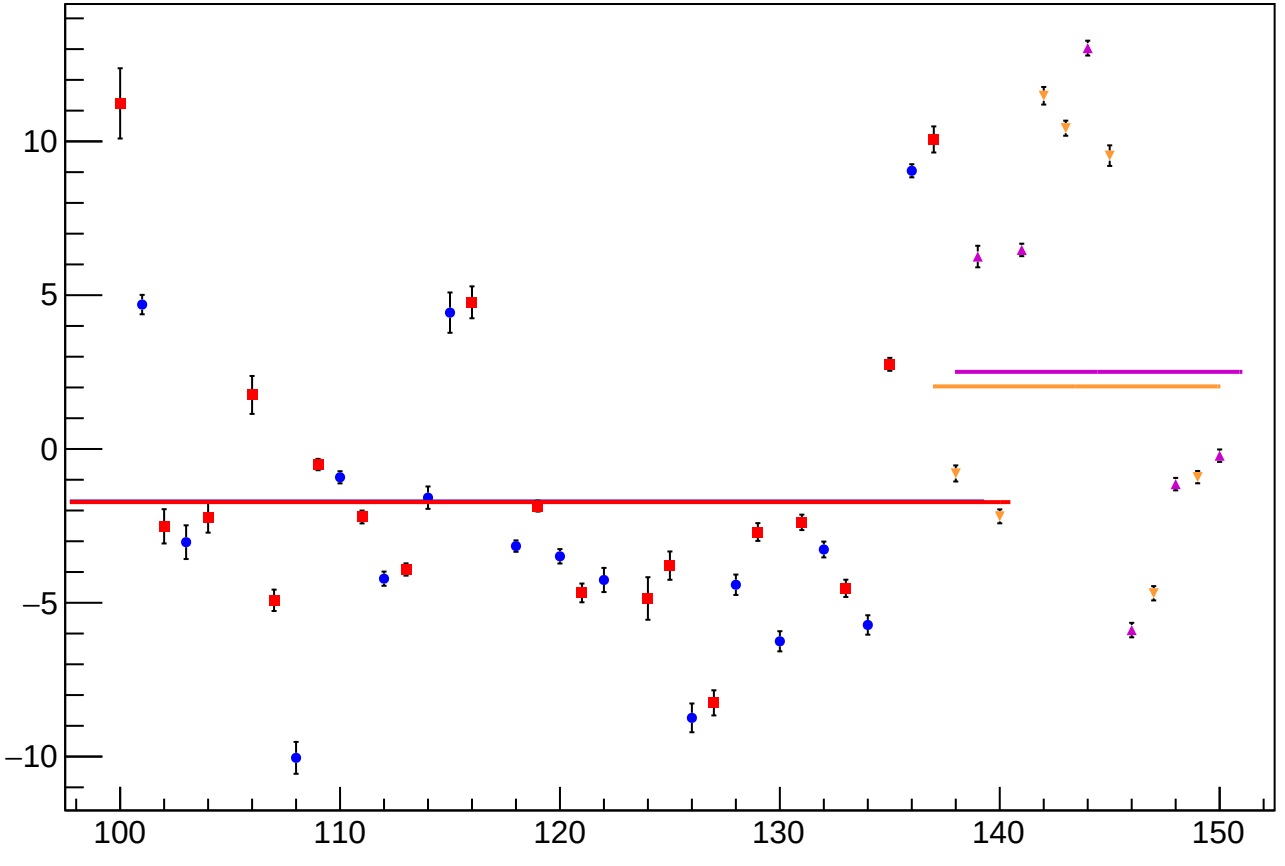
Right: 6.071+/-0.045 $\chi^2$/NDF: 140552.1/34

In: -1.965+/-0.057 $\chi^2$/NDF:194037.8/21

Out: -4.468+/-0.053 $\chi^2$/NDF:229321.1/25

All: -3.295+/-0.039 $\chi^2$/NDF: 424396.2/47

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -1.708+/-0.072 $\chi^2$/NDF: 4289.8/15

Left Out: 2.034+/-0.093 $\chi^2$/NDF:4277.2/6

Right Out: -1.727+/-0.067 $\chi^2$/NDF: 2309.6/18

Left In: 2.507+/-0.093 $\chi^2$/NDF:4162.0/5

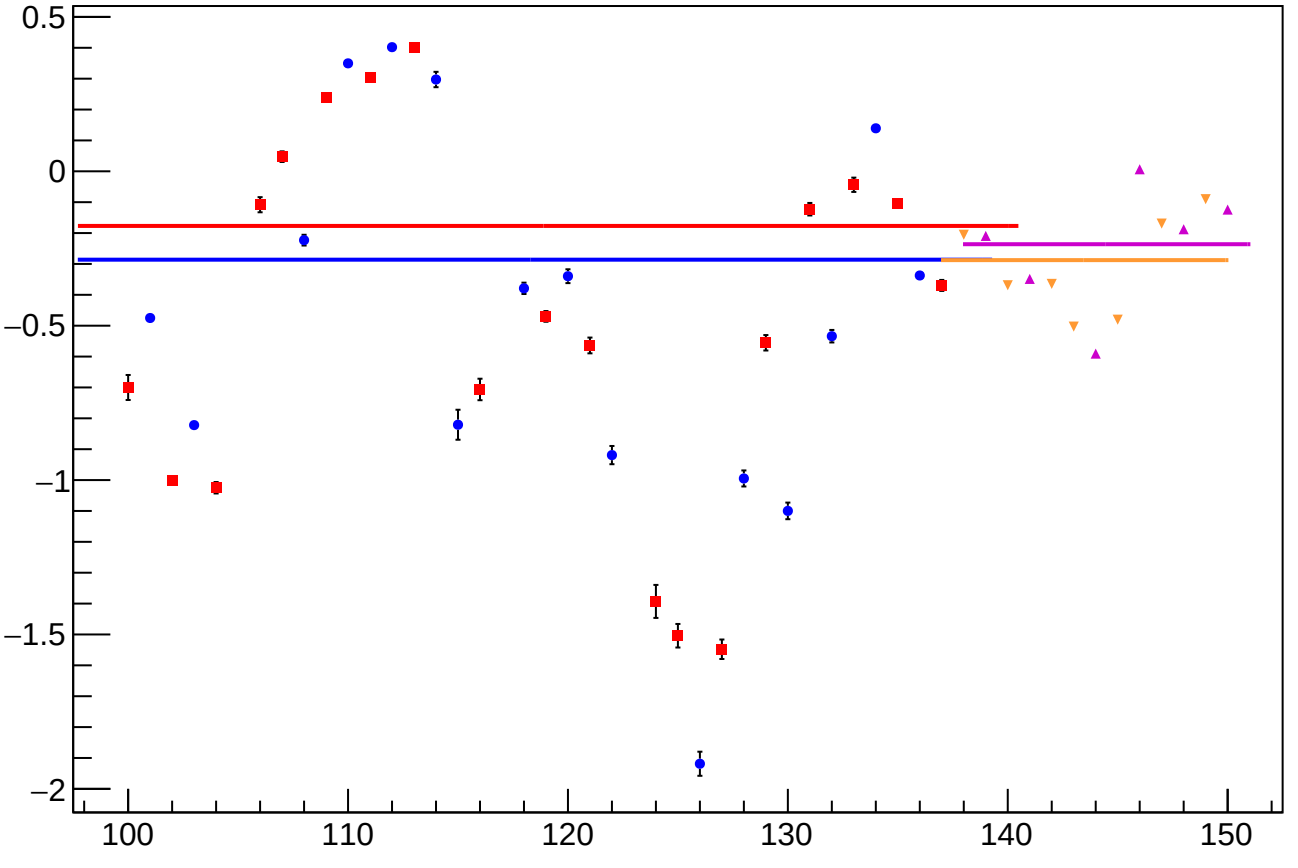
Left: 2.272+/-0.066 $\chi^2$/NDF: 8452.2/12

Right: -1.718+/-0.049 $\chi^2$/NDF: 6599.4/34

In: -0.134+/-0.057 $\chi^2$/NDF:9746.8/21

Out: -0.449+/-0.054 $\chi^2$/NDF:7662.3/25

All: -0.298+/-0.039 $\chi^2$/NDF: 17425.2/47




Right In: -0.286+/-0.004 $\chi^2$/NDF: 11361.1/15

Left Out: -0.288+/-0.004 $\chi^2$/NDF:1114.2/6

Right Out: -0.177+/-0.004 $\chi^2$/NDF: 14767.8/18

Left In: -0.236+/-0.004 $\chi^2$/NDF:1365.4/5

Left: -0.261+/-0.003 $\chi^2$/NDF: 2553.3/12

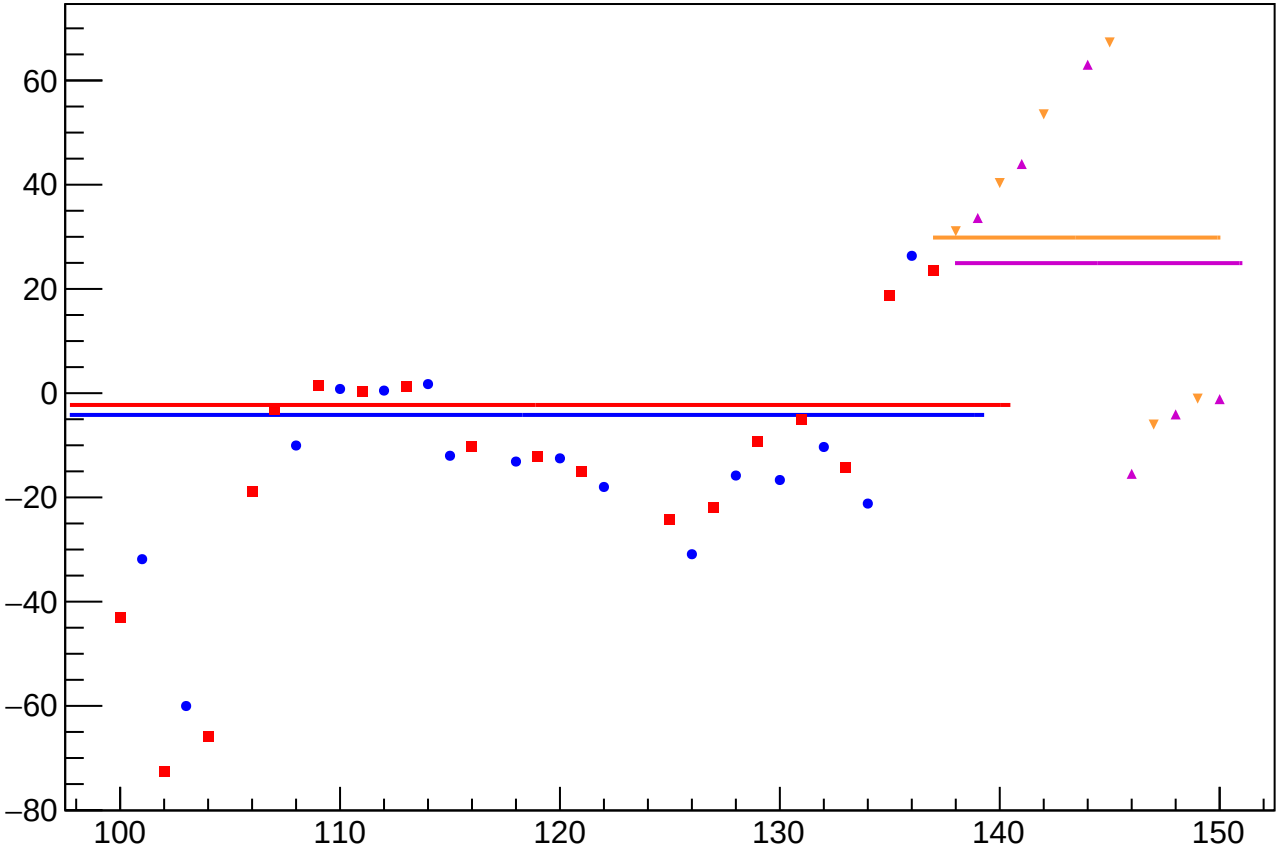
Right: -0.227+/-0.003 $\chi^2$/NDF: 26481.0/34

In: -0.260+/-0.003 $\chi^2$/NDF:12796.8/21

Out: -0.227+/-0.003 $\chi^2$/NDF:16239.3/25

All: -0.243+/-0.002 $\chi^2$/NDF: 29099.5/47

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.173+/-0.054 $\chi^2$/NDF: 75394.5/15

Left Out: 29.858+/-0.109 $\chi^2$/NDF:43417.3/5

Right Out: -2.261+/-0.046 $\chi^2$/NDF: 79624.4/17

Left In: 24.952+/-0.102 $\chi^2$/NDF:64259.3/5

Left: 27.262+/-0.074 $\chi^2$/NDF: 108757.6/11

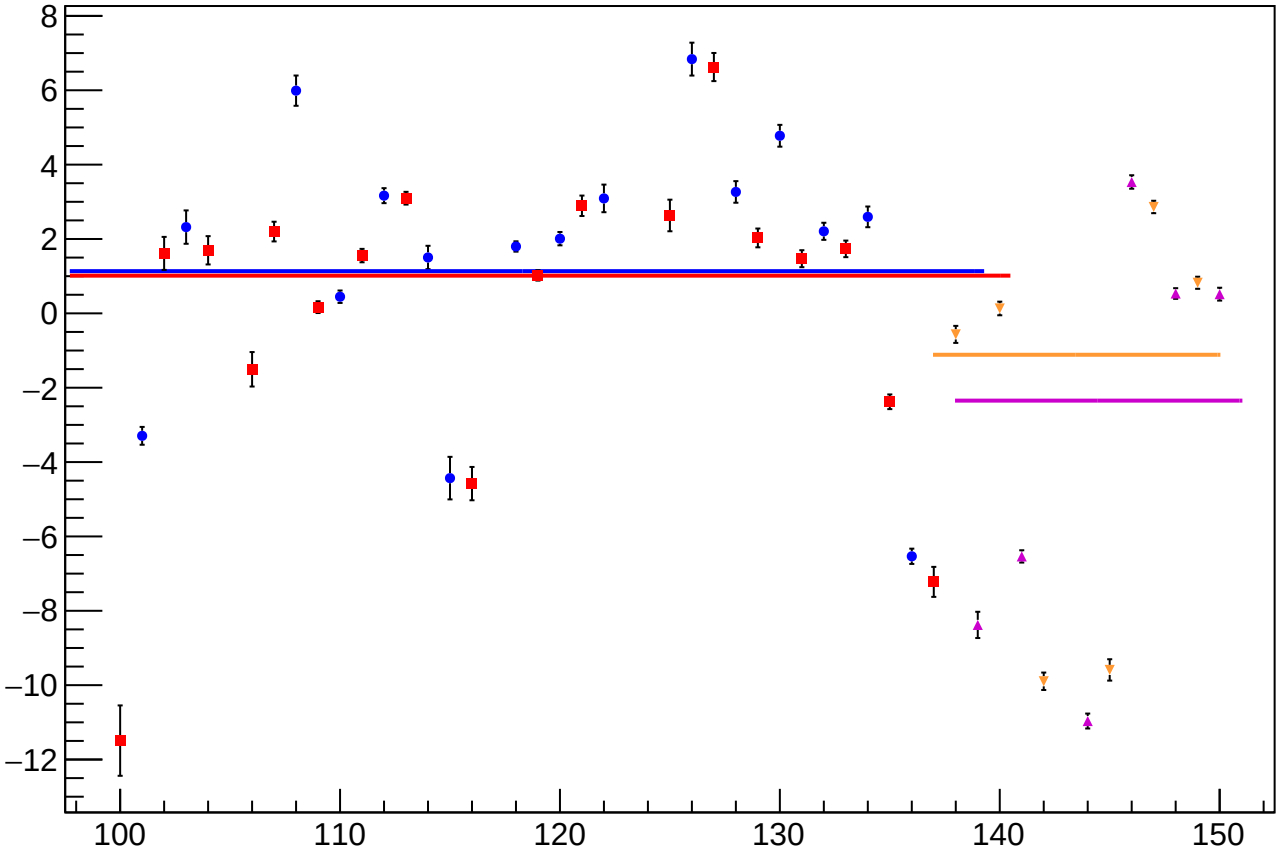
Right: -3.058+/-0.035 $\chi^2$/NDF: 155737.8/33

In: 2.248+/-0.048 $\chi^2$/NDF:202729.1/21

Out: 2.635+/-0.042 $\chi^2$/NDF:197233.5/23

All: 2.465+/-0.032 $\chi^2$/NDF: 399999.1/45

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.135+/-0.060 $\chi^2$/NDF: 2595.7/15

Left Out: -1.114+/-0.081 $\chi^2$/NDF:3033.0/5

Right Out: 1.014+/-0.057 $\chi^2$/NDF: 1593.0/17

Left In: -2.347+/-0.074 $\chi^2$/NDF:4503.8/5

Left: -1.784+/-0.055 $\chi^2$/NDF: 7663.0/11

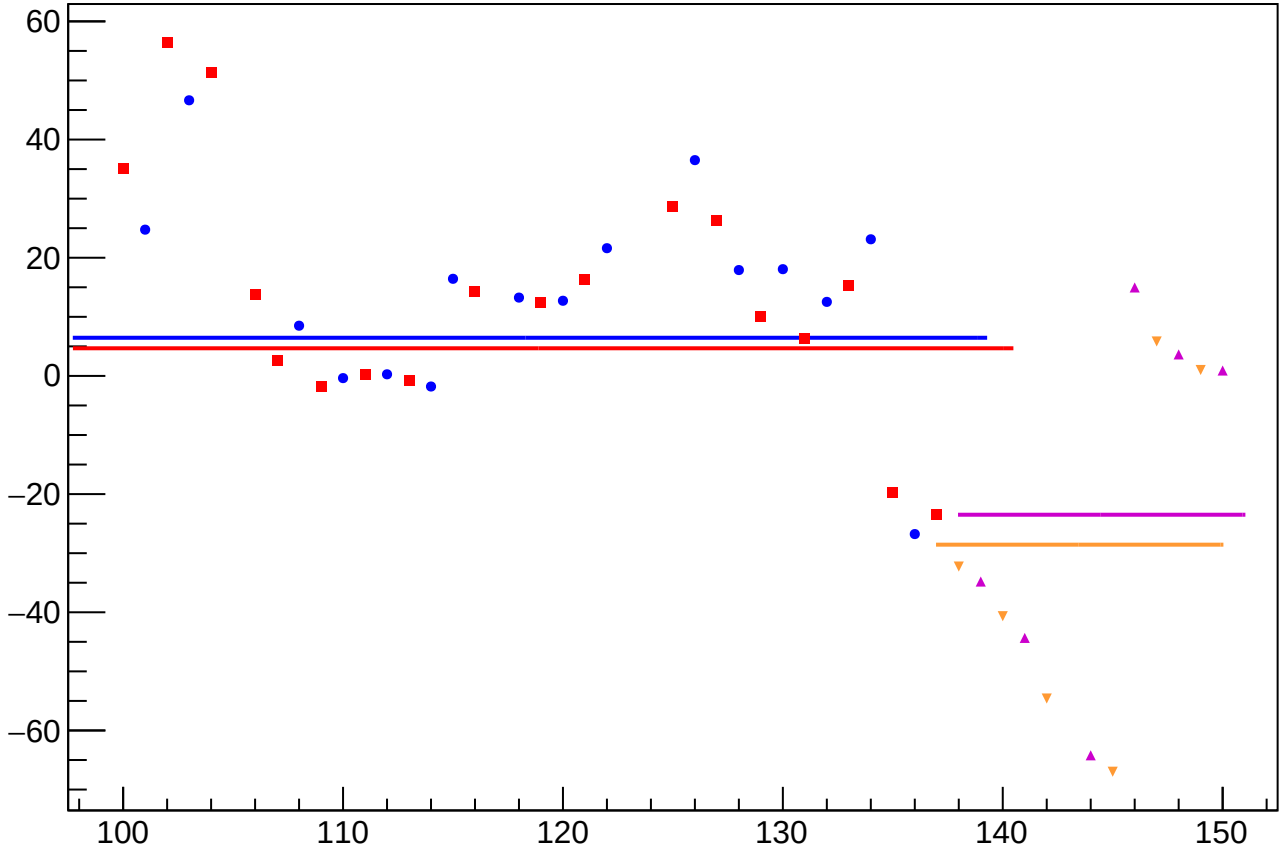
Right: 1.072+/-0.041 $\chi^2$/NDF: 4190.8/33

In: -0.248+/-0.047 $\chi^2$/NDF:8429.2/21

Out: 0.305+/-0.047 $\chi^2$/NDF:5086.9/23

All: 0.029+/-0.033 $\chi^2$/NDF: 13586.2/45

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.458+/-0.065 $\chi^2$/NDF: 70792.7/15

Left Out: -28.558+/-0.109 $\chi^2$/NDF:46215.7/5

Right Out: 4.677+/-0.059 $\chi^2$/NDF: 74414.5/17

Left In: -23.491+/-0.102 $\chi^2$/NDF:67776.1/5

Left: -25.854+/-0.074 $\chi^2$/NDF: 115144.8/11

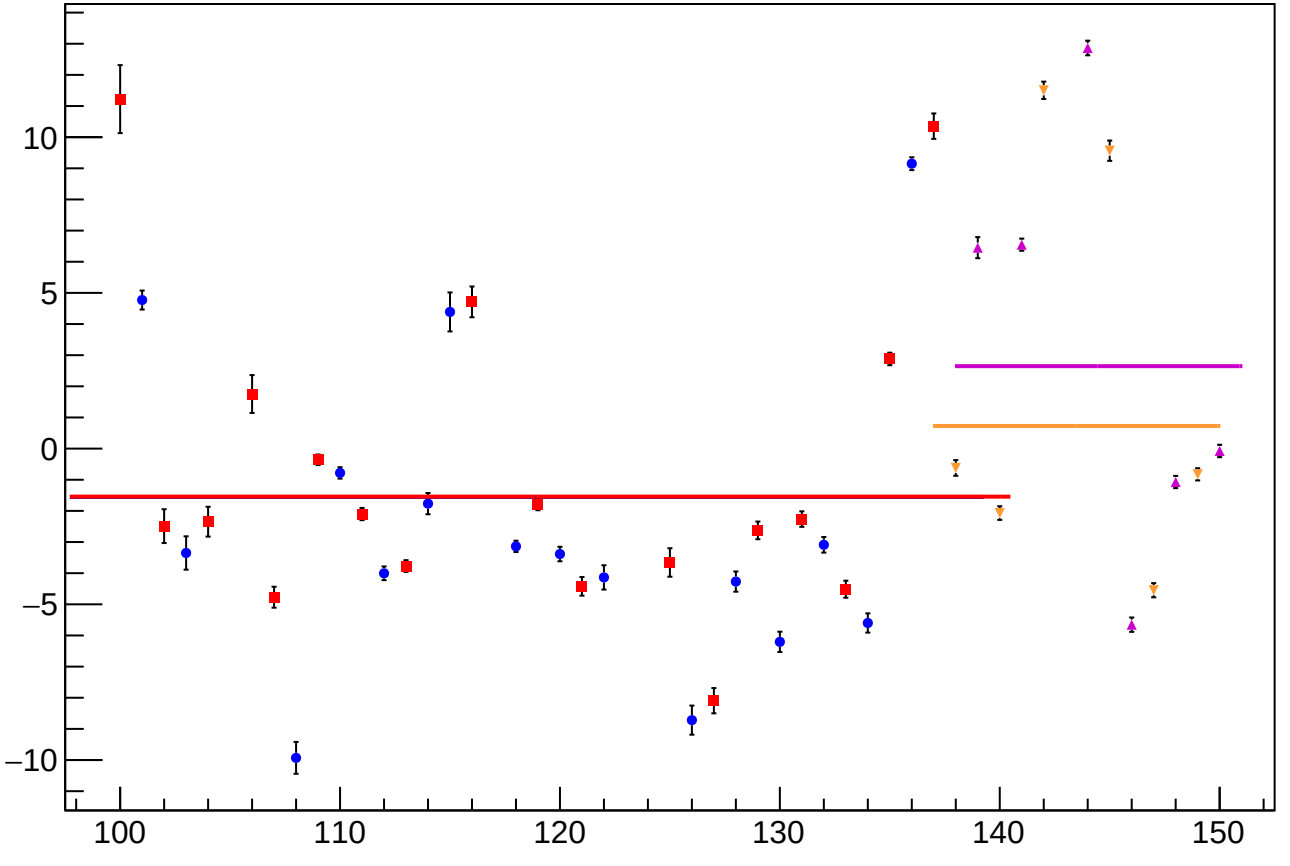
Right: 5.483+/-0.044 $\chi^2$/NDF: 145618.4/33

In: -2.197+/-0.055 $\chi^2$/NDF:199992.5/21

Out: -2.871+/-0.052 $\chi^2$/NDF:192475.1/23

All: -2.551+/-0.038 $\chi^2$/NDF: 392547.3/45

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -1.552+/-0.069 $\chi^2$/NDF: 4543.6/15

Left Out: 0.727+/-0.098 $\chi^2$/NDF:3015.4/5

Right Out: -1.543+/-0.065 $\chi^2$/NDF: 2473.0/17

Left In: 2.648+/-0.090 $\chi^2$/NDF:4242.1/5

Left: 1.764+/-0.066 $\chi^2$/NDF: 7464.9/11

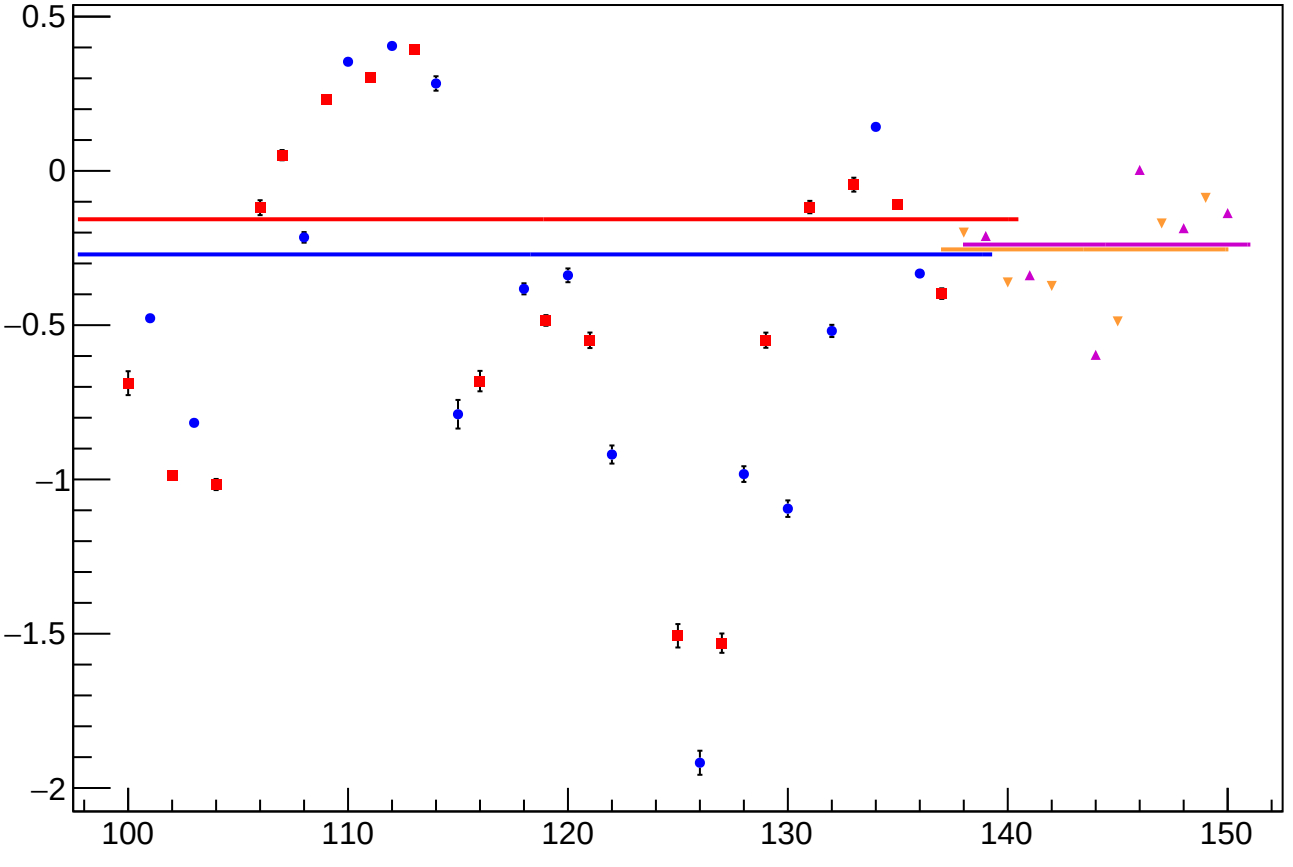
Right: -1.547+/-0.047 $\chi^2$/NDF: 7016.6/33

In: 0.002+/-0.055 $\chi^2$/NDF:10143.7/21

Out: -0.856+/-0.054 $\chi^2$/NDF:5862.6/23

All: -0.436+/-0.039 $\chi^2$/NDF: 16130.2/45

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.271+/-0.004 $\chi^2$/NDF: 12096.1/15

Left Out: -0.254+/-0.004 $\chi^2$/NDF:823.5/5

Right Out: -0.157+/-0.004 $\chi^2$/NDF: 15019.0/17

Left In: -0.239+/-0.004 $\chi^2$/NDF:1399.9/5

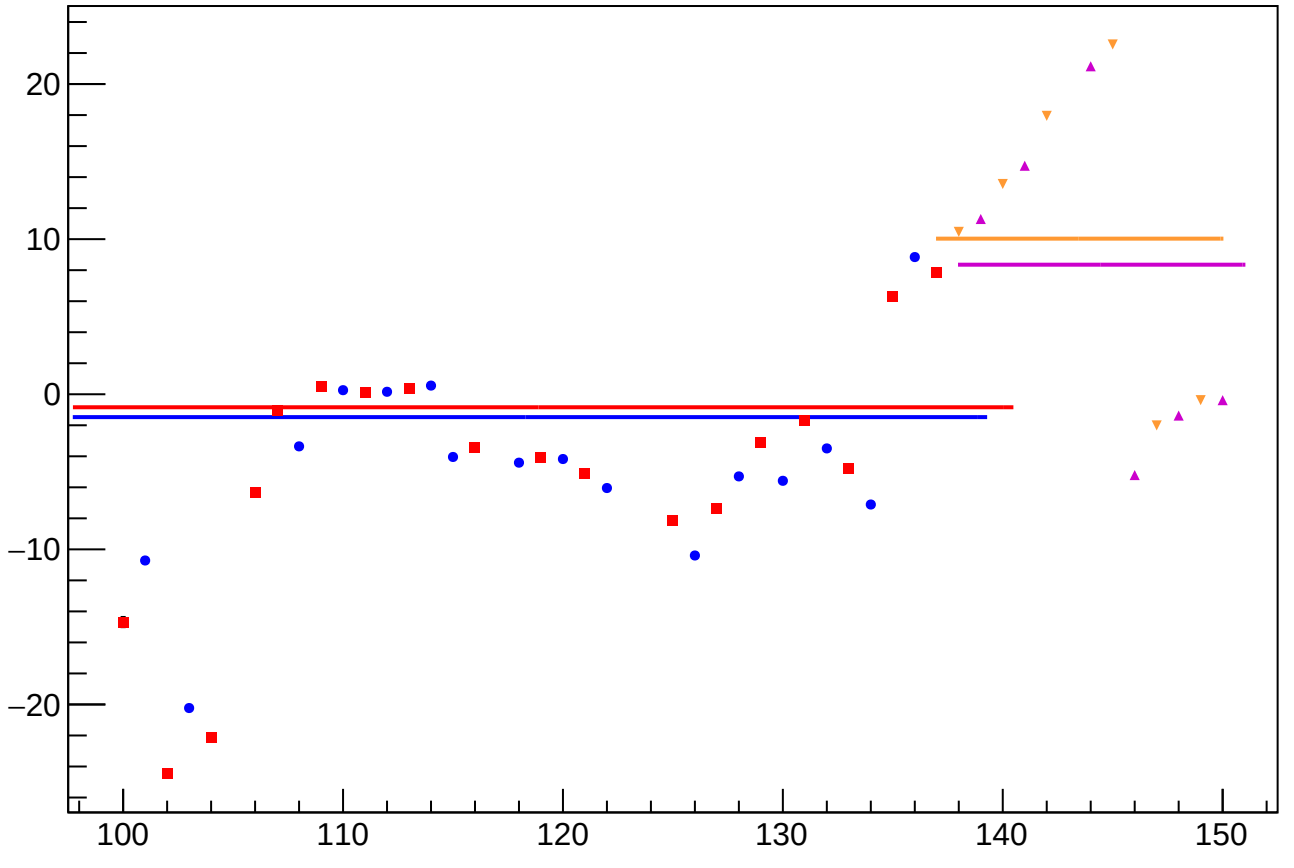
Left: -0.246+/-0.003 $\chi^2$/NDF: 2230.2/11

Right: -0.209+/-0.003 $\chi^2$/NDF: 27526.5/33

In: -0.254+/-0.003 $\chi^2$/NDF:13526.4/21

Out: -0.197+/-0.003 $\chi^2$/NDF:16118.6/23

All: -0.226+/-0.002 $\chi^2$/NDF: 29837.9/45




Right In: -1.474+/-0.019 $\chi^2$/NDF: 73722.2/15

Left Out: 10.033+/-0.037 $\chi^2$/NDF:42857.2/5

Right Out: -0.838+/-0.016 $\chi^2$/NDF: 78013.1/17

Left In: 8.354+/-0.035 $\chi^2$/NDF:63308.0/5

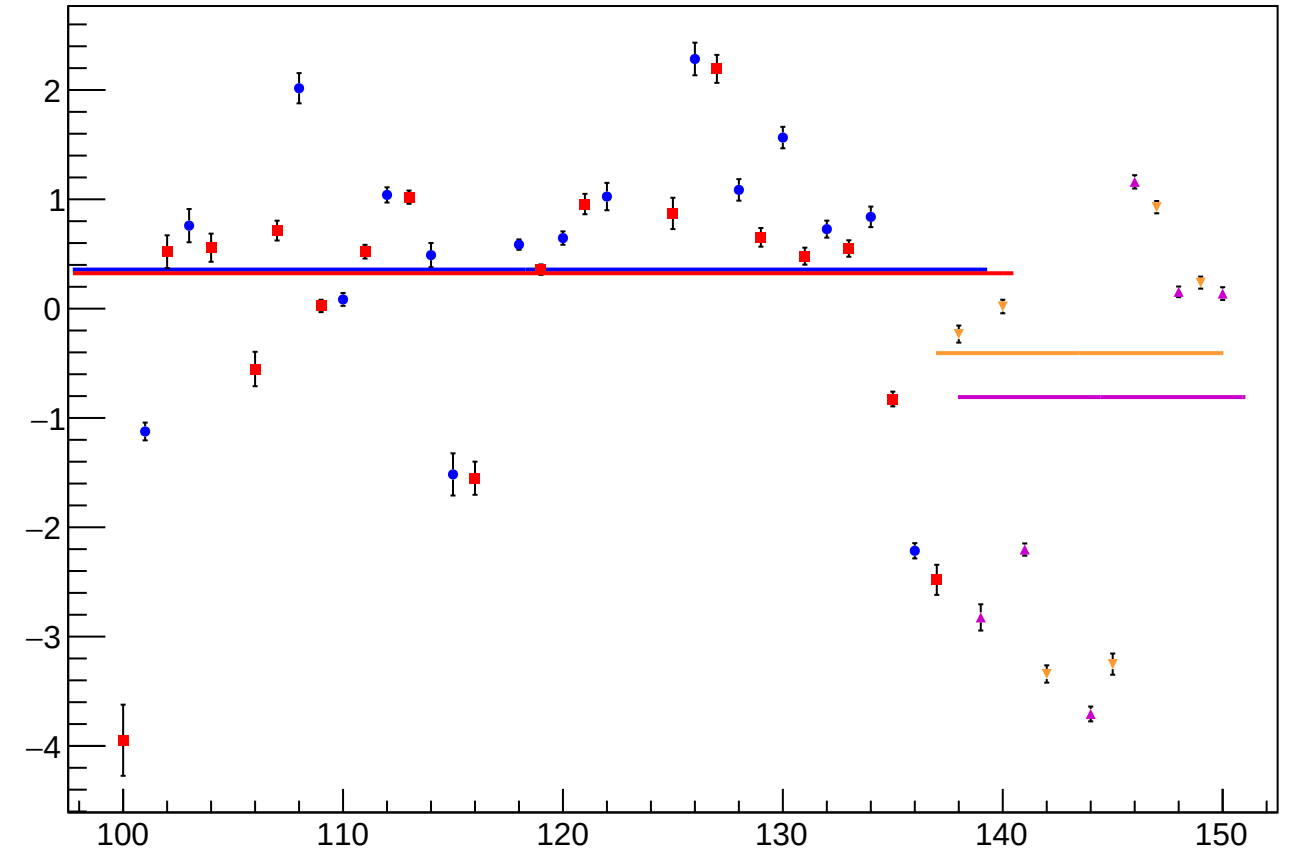
Left: 9.143+/-0.025 $\chi^2$/NDF: 107266.4/11

Right: -1.107+/-0.012 $\chi^2$/NDF: 152399.4/33

In: 0.745+/-0.016 $\chi^2$/NDF:199146.1/21

Out: 0.893+/-0.015 $\chi^2$/NDF:194096.4/23

All: 0.827+/-0.011 $\chi^2$/NDF: 393286.9/45




Right In: 0.357+/-0.021 $\chi^2$/NDF: 2543.0/15

Left Out: -0.407+/-0.027 $\chi^2$/NDF:2982.1/5

Right Out: 0.324+/-0.020 $\chi^2$/NDF: 1558.9/17

Left In: -0.809+/-0.025 $\chi^2$/NDF:4413.1/5

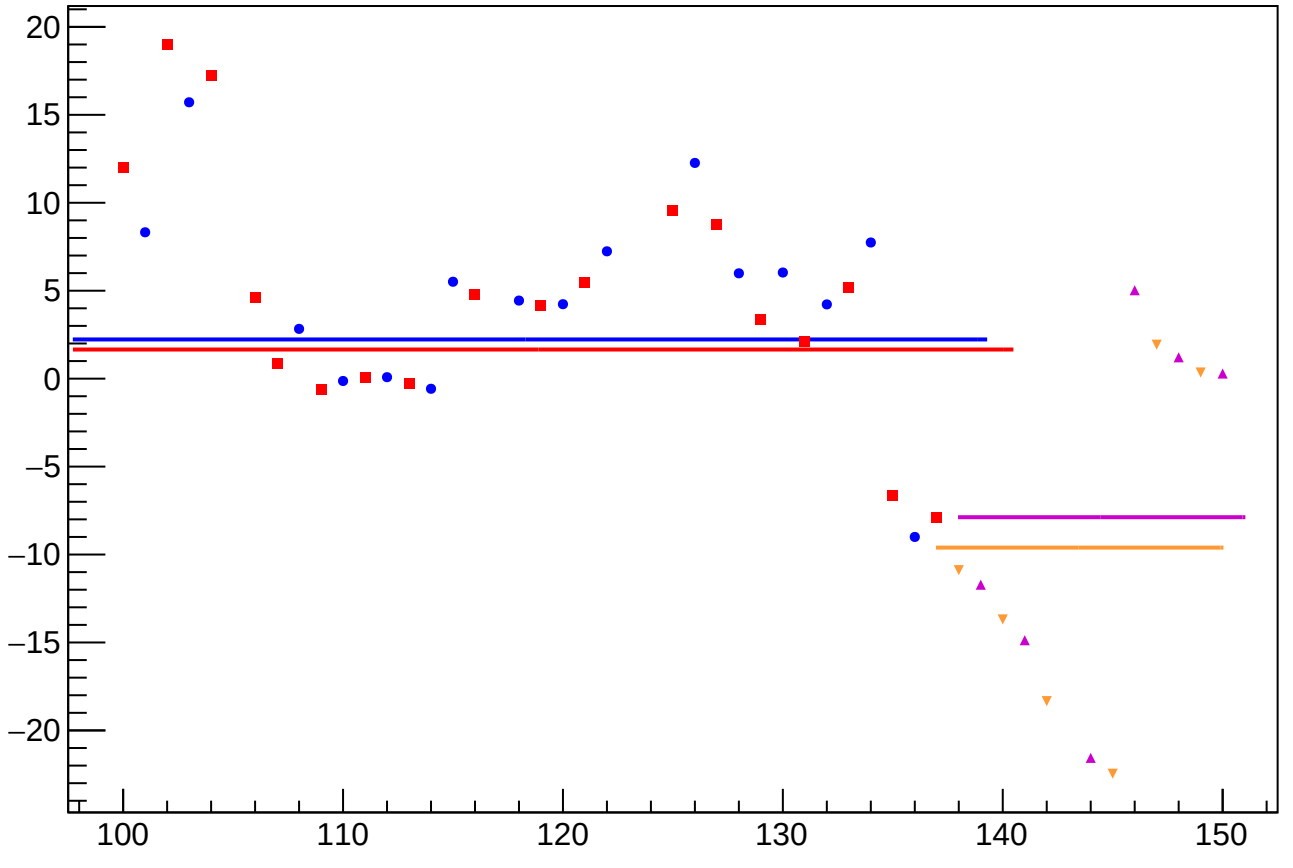
Left: -0.626+/-0.019 $\chi^2$/NDF: 7512.3/11

Right: 0.340+/-0.014 $\chi^2$/NDF: 4103.4/33

In: -0.112+/-0.016 $\chi^2$/NDF:8247.4/21

Out: 0.075+/-0.016 $\chi^2$/NDF:5009.6/23

All: -0.019+/-0.011 $\chi^2$/NDF: 13325.5/45




Right In: 2.229+/-0.022 $\chi^2$/NDF: 69187.1/15

Left Out: -9.606+/-0.037 $\chi^2$/NDF:45630.1/5

Right Out: 1.657+/-0.020 $\chi^2$/NDF: 72797.4/17

Left In: -7.877+/-0.035 $\chi^2$/NDF:66774.7/5

Left: -8.682+/-0.025 $\chi^2$/NDF: 113572.2/11

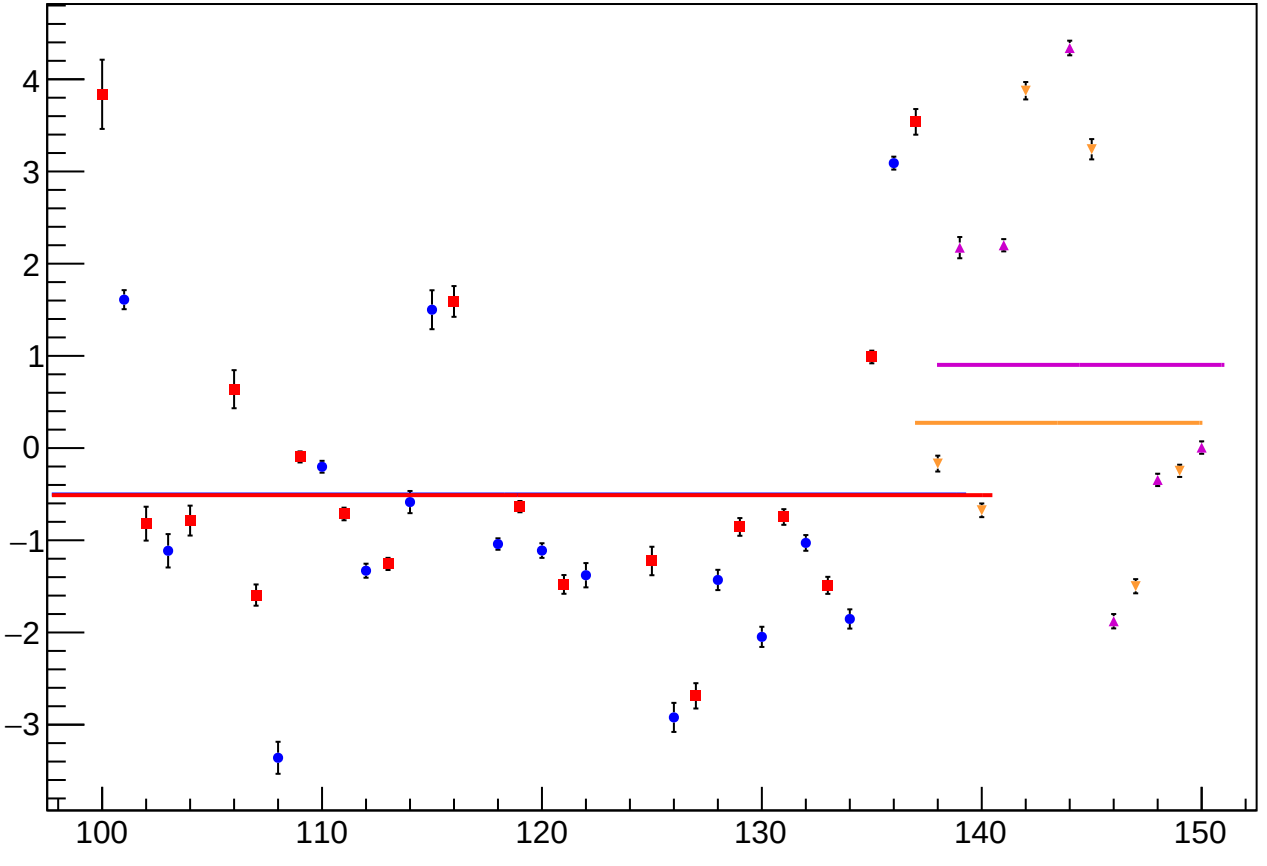
Right: 1.919+/-0.015 $\chi^2$/NDF: 142343.2/33

In: -0.738+/-0.019 $\chi^2$/NDF:196501.9/21

Out: -0.980+/-0.018 $\chi^2$/NDF:189465.9/23

All: -0.865+/-0.013 $\chi^2$/NDF: 386055.2/45

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -0.504+/-0.024 $\chi^2$/NDF: 4447.2/15

Left Out: 0.274+/-0.033 $\chi^2$/NDF:2966.1/5

Right Out: -0.511+/-0.022 $\chi^2$/NDF: 2424.0/17

Left In: 0.902+/-0.031 $\chi^2$/NDF:4170.1/5

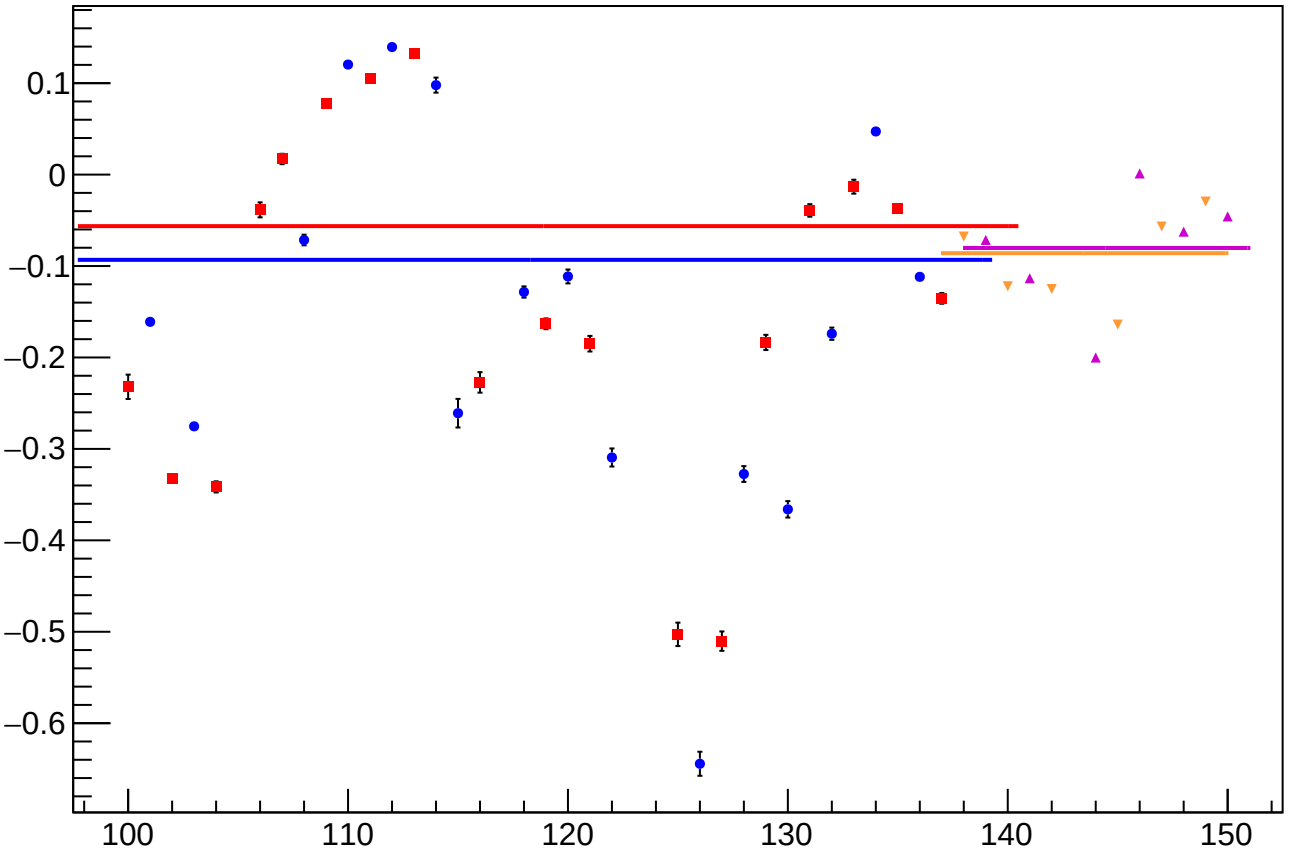
Left: 0.614+/-0.023 $\chi^2$/NDF: 7329.8/11

Right: -0.507+/-0.016 $\chi^2$/NDF: 6871.2/33

In: 0.024+/-0.019 $\chi^2$/NDF:9935.8/21

Out: -0.267+/-0.018 $\chi^2$/NDF:5775.3/23

All: -0.124+/-0.013 $\chi^2$/NDF: 15833.2/45




Right In: -0.093+/-0.001 $\chi^2$/NDF: 11742.4/15

Left Out: -0.086+/-0.002 $\chi^2$/NDF:814.2/5

Right Out: -0.056+/-0.001 $\chi^2$/NDF: 14457.4/17

Left In: -0.080+/-0.001 $\chi^2$/NDF:1380.0/5

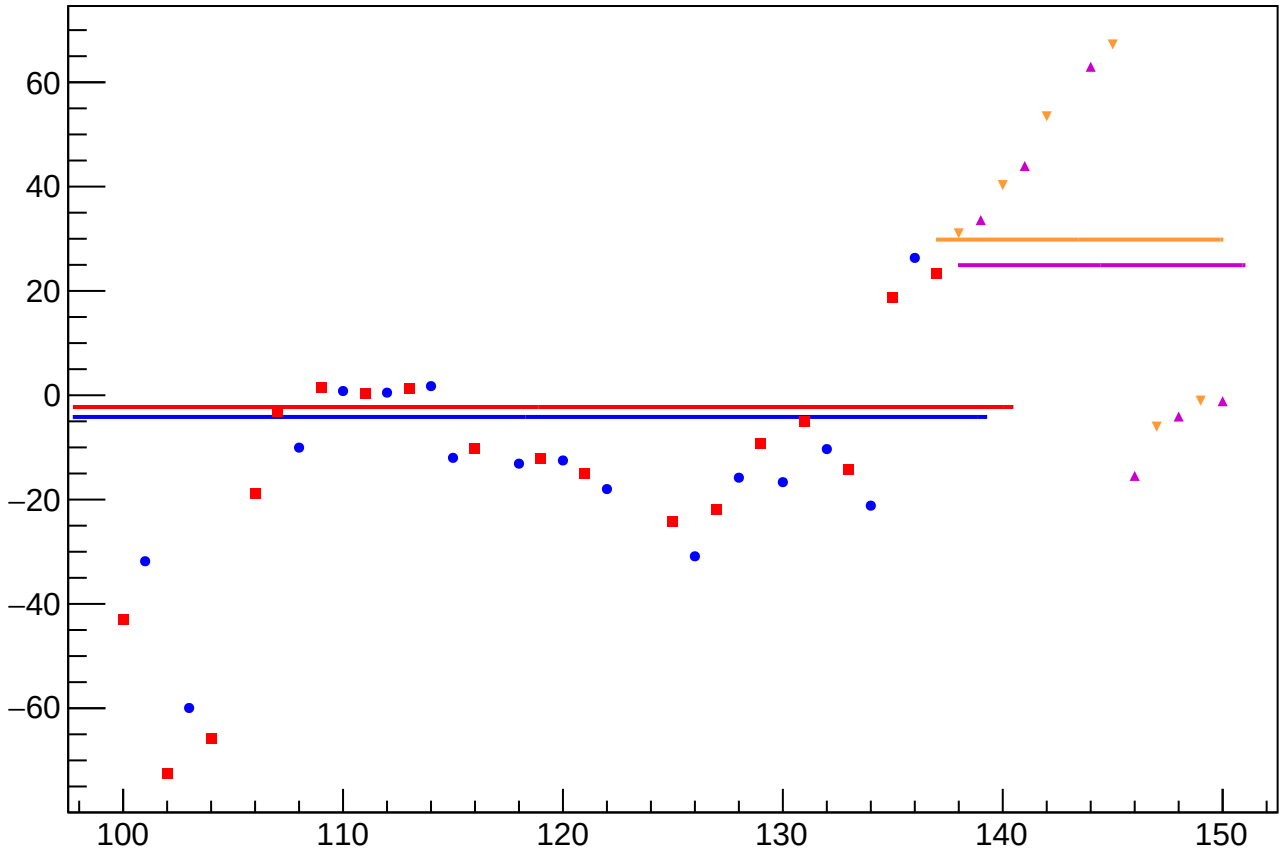
Left: -0.083+/-0.001 $\chi^2$/NDF: 2201.9/11

Right: -0.073+/-0.001 $\chi^2$/NDF: 26566.6/33

In: -0.087+/-0.001 $\chi^2$/NDF:13165.8/21

Out: -0.069+/-0.001 $\chi^2$/NDF:15488.8/23

All: -0.078+/-0.001 $\chi^2$/NDF: 28814.2/45




Right In: -4.159+/-0.054 $\chi^2$/NDF: 75420.4/15

Left Out: 29.838+/-0.108 $\chi^2$/NDF:43407.2/5

Right Out: -2.251+/-0.046 $\chi^2$/NDF: 79637.5/17

Left In: 24.937+/-0.102 $\chi^2$/NDF:64265.8/5

Left: 27.245+/-0.074 $\chi^2$/NDF: 108753.3/11

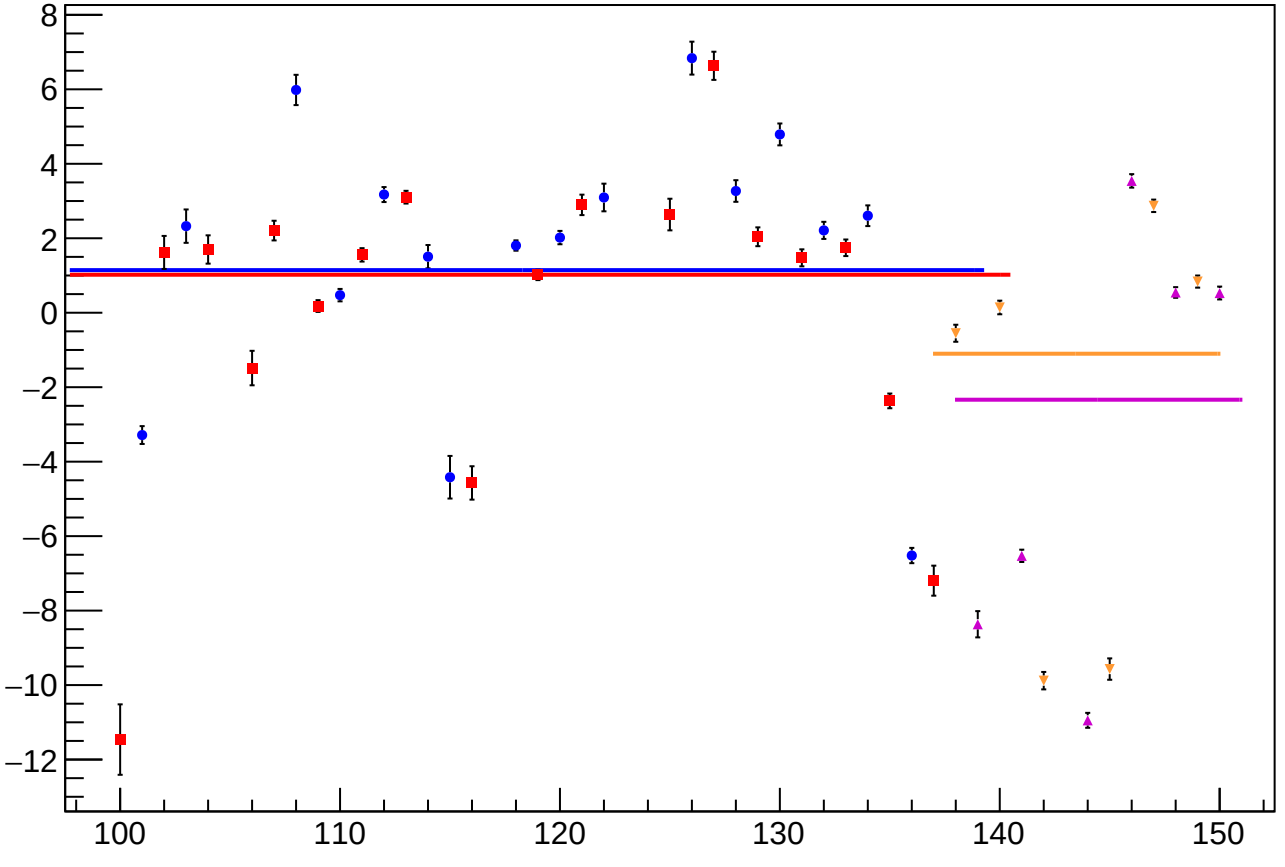
Right: -3.046+/-0.035 $\chi^2$/NDF: 155775.7/33

In: 2.250+/-0.048 $\chi^2$/NDF:202746.5/21

Out: 2.633+/-0.042 $\chi^2$/NDF:197232.8/23

All: 2.466+/-0.032 $\chi^2$/NDF: 400015.3/45

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.144+/-0.060 $\chi^2$/NDF: 2595.3/15

Left Out: -1.101+/-0.081 $\chi^2$/NDF:3034.4/5

Right Out: 1.021+/-0.057 $\chi^2$/NDF: 1591.2/17

Left In: -2.336+/-0.074 $\chi^2$/NDF:4506.9/5

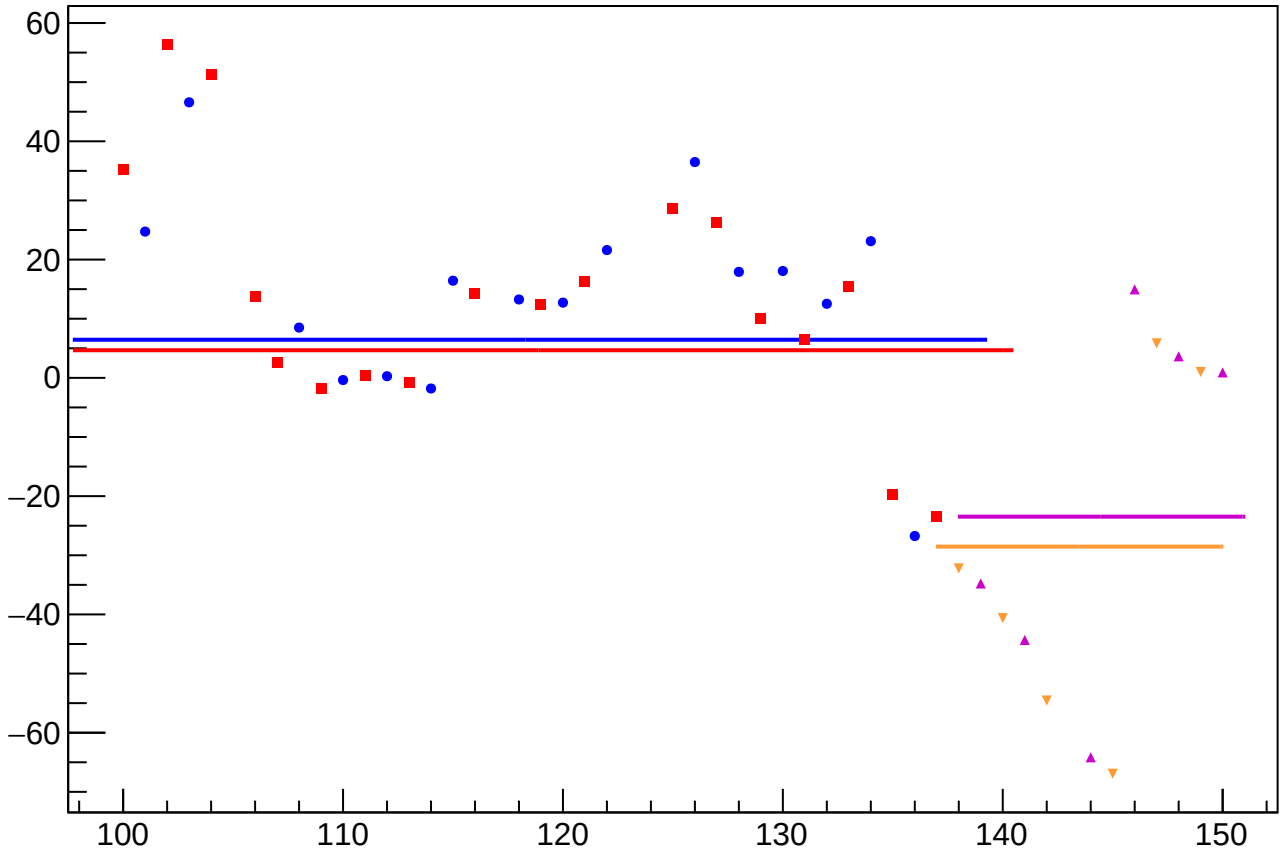
Left: -1.773+/-0.055 $\chi^2$/NDF: 7668.1/11

Right: 1.079+/-0.041 $\chi^2$/NDF: 4188.7/33

In: -0.238+/-0.047 $\chi^2$/NDF:8432.6/21

Out: 0.315+/-0.047 $\chi^2$/NDF:5084.5/23

All: 0.039+/-0.033 $\chi^2$/NDF: 13587.1/45




Right In: 6.448+/-0.065 $\chi^2$/NDF: 70815.1/15

Left Out: -28.534+/-0.109 $\chi^2$/NDF:46203.0/5

Right Out: 4.671+/-0.059 $\chi^2$/NDF: 74420.3/17

Left In: -23.471+/-0.102 $\chi^2$/NDF:67780.8/5

Left: -25.832+/-0.074 $\chi^2$/NDF: 115136.5/11

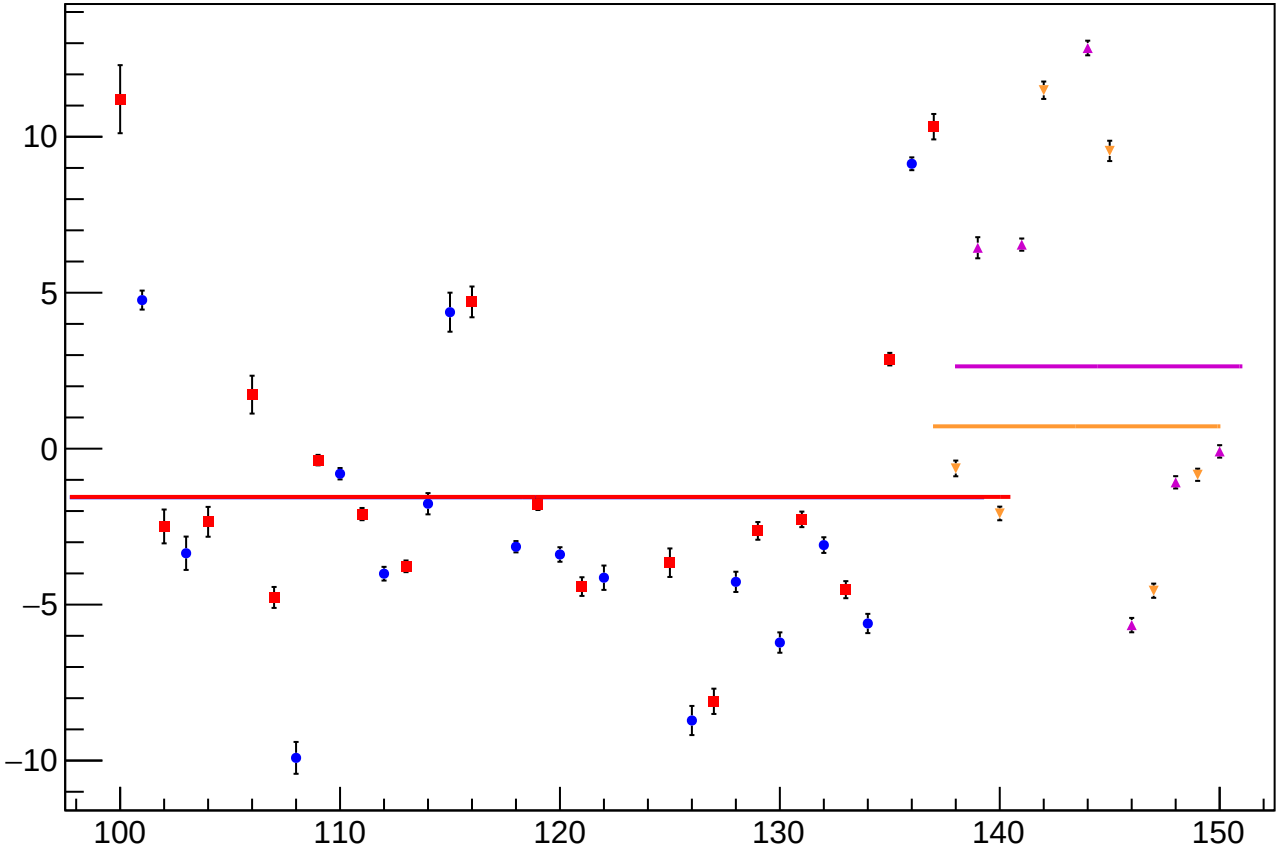
Right: 5.475+/-0.044 $\chi^2$/NDF: 145645.8/33

In: -2.193+/-0.055 $\chi^2$/NDF:200003.1/21

Out: -2.863+/-0.052 $\chi^2$/NDF:192467.6/23

All: -2.546+/-0.038 $\chi^2$/NDF: 392549.5/45

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -1.558+/-0.069 $\chi^2$/NDF: 4543.1/15

Left Out: 0.716+/-0.098 $\chi^2$/NDF:3016.5/5

Right Out: -1.547+/-0.064 $\chi^2$/NDF: 2470.1/17

Left In: 2.639+/-0.090 $\chi^2$/NDF:4243.9/5

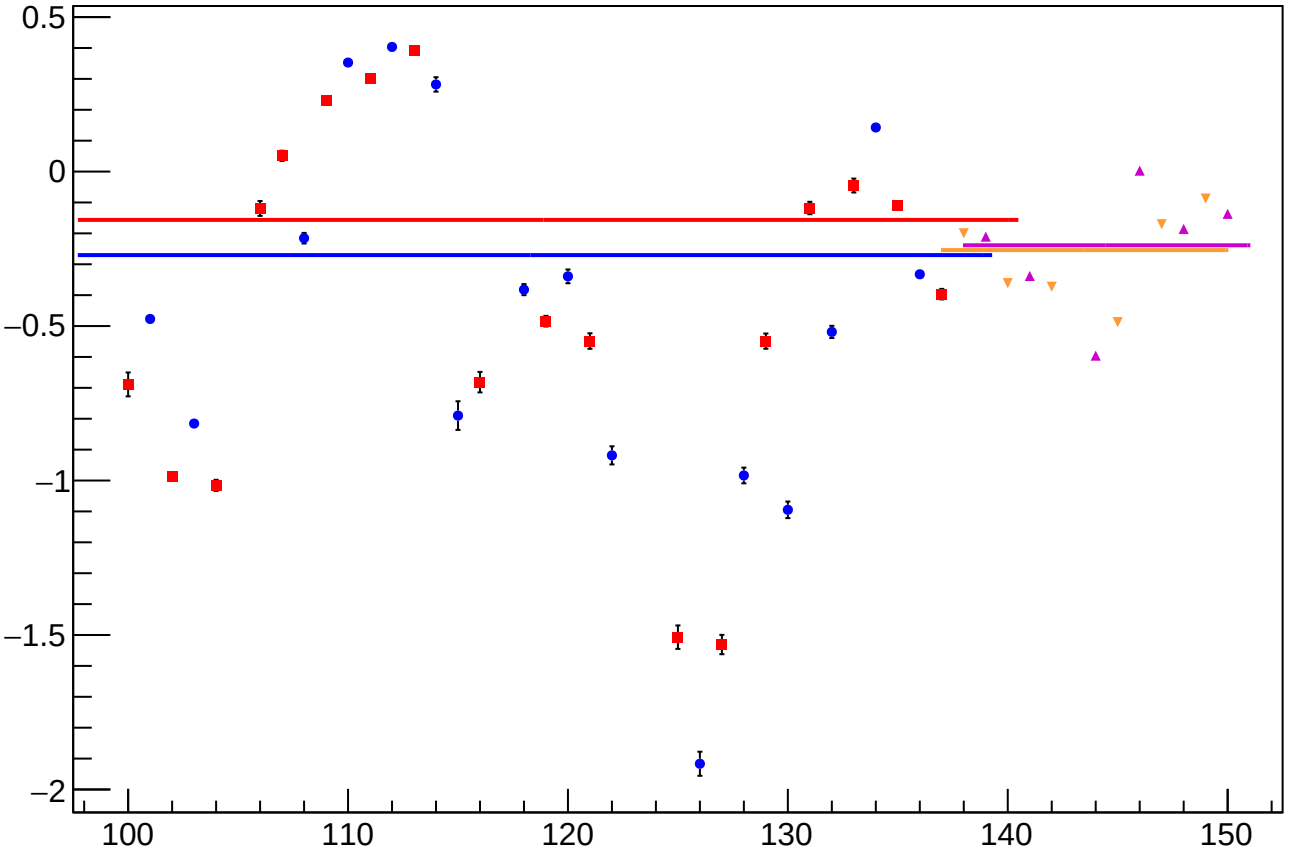
Left: 1.754+/-0.066 $\chi^2$/NDF: 7468.6/11

Right: -1.552+/-0.047 $\chi^2$/NDF: 7013.2/33

In: -0.006+/-0.055 $\chi^2$/NDF:10145.9/21

Out: -0.862+/-0.054 $\chi^2$/NDF:5859.0/23

All: -0.443+/-0.038 $\chi^2$/NDF: 16128.5/45




Right In: -0.270+/-0.004 $\chi^2$/NDF: 12096.8/15

Left Out: -0.254+/-0.004 $\chi^2$/NDF:823.0/5

Right Out: -0.156+/-0.004 $\chi^2$/NDF: 15030.0/17

Left In: -0.239+/-0.004 $\chi^2$/NDF:1400.0/5

Left: -0.246+/-0.003 $\chi^2$/NDF: 2229.6/11

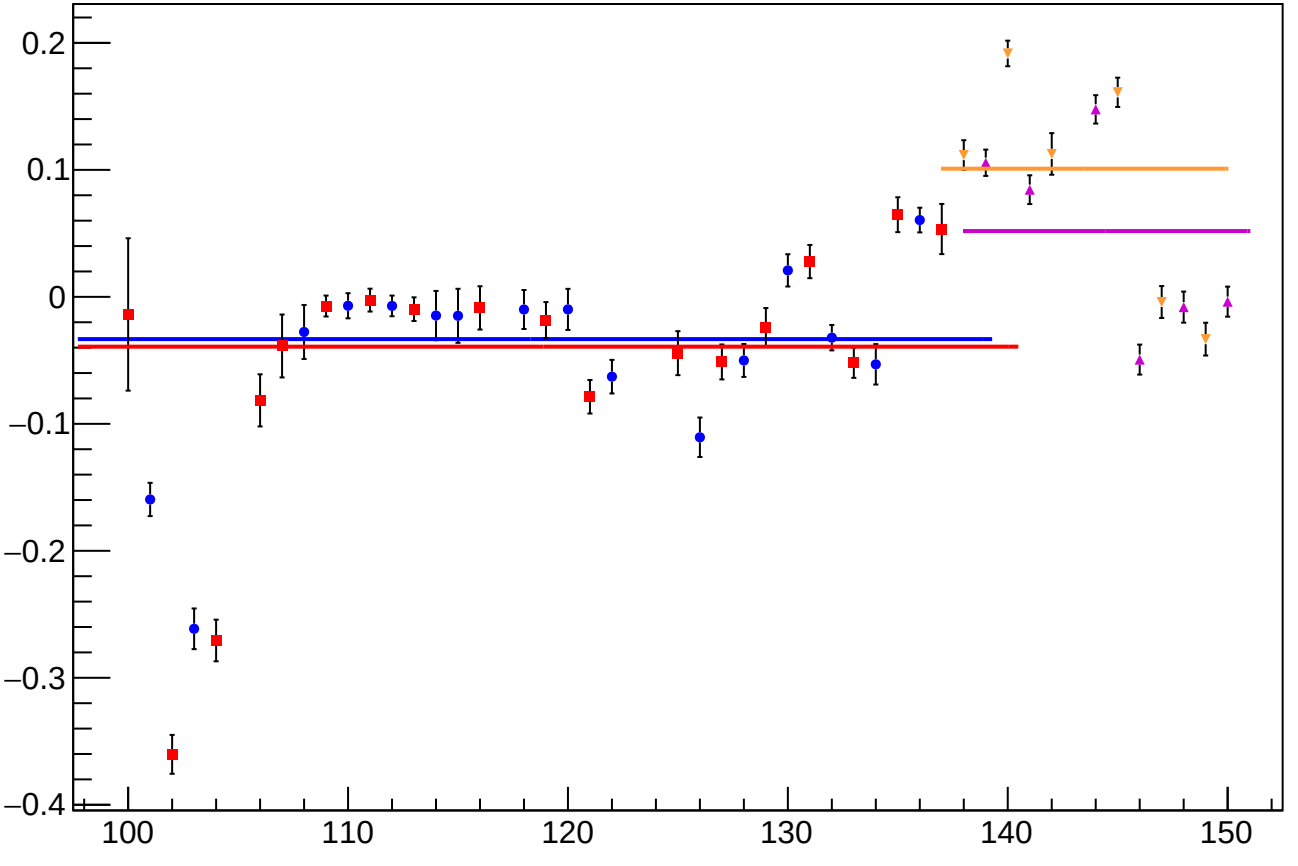
Right: -0.208+/-0.003 $\chi^2$/NDF: 27539.3/33

In: -0.254+/-0.003 $\chi^2$/NDF:13527.0/21

Out: -0.197+/-0.003 $\chi^2$/NDF:16130.0/23

All: -0.226+/-0.002 $\chi^2$/NDF: 29850.9/45

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -0.033+/-0.003 $\chi^2$/NDF: 463.5/15

Left Out: 0.101+/-0.005 $\chi^2$/NDF:287.7/5

Right Out: -0.039+/-0.003 $\chi^2$/NDF: 807.6/17

Left In: 0.052+/-0.005 $\chi^2$/NDF:228.3/5

Left: 0.075+/-0.003 $\chi^2$/NDF: 568.3/11

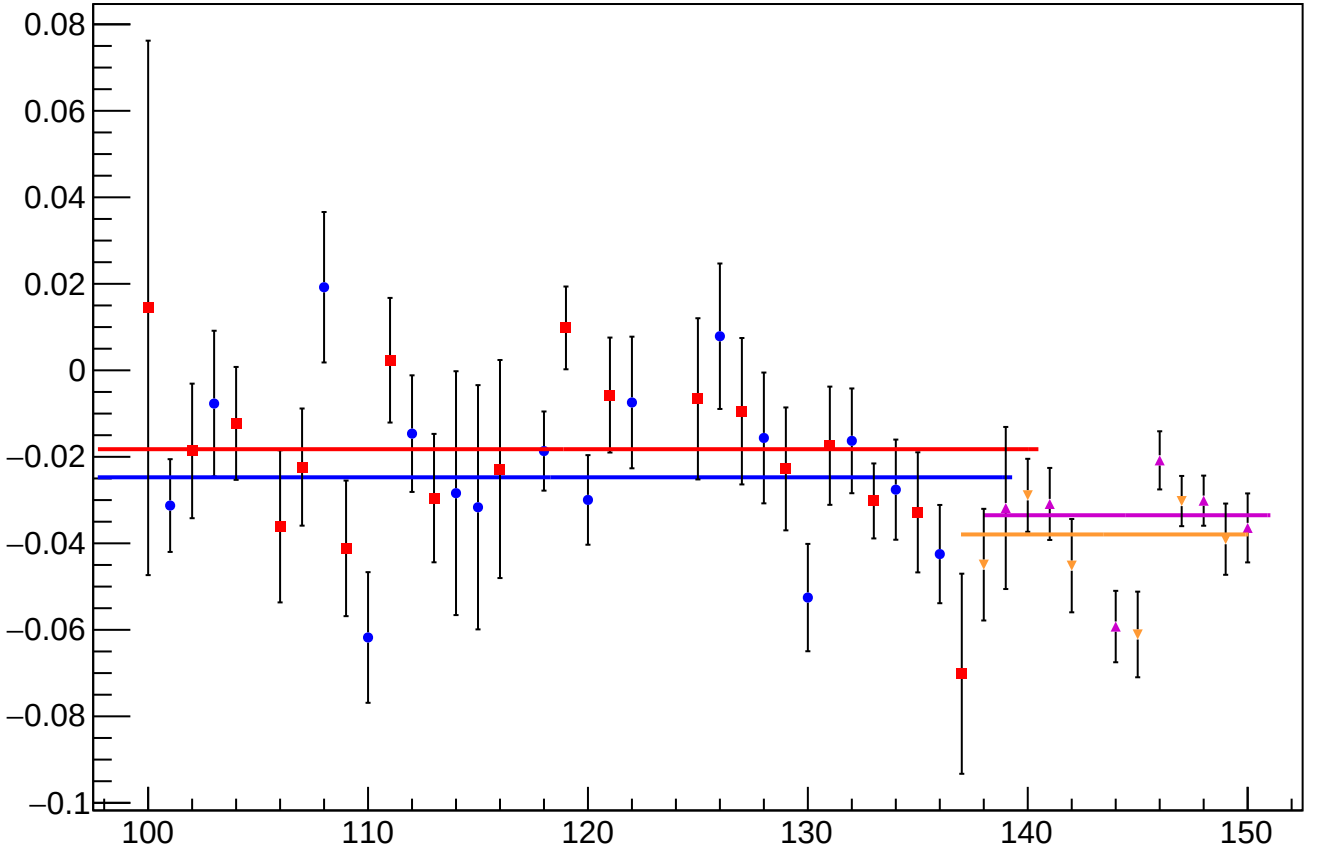
Right: -0.036+/-0.002 $\chi^2$/NDF: 1272.8/33

In: -0.006+/-0.003 $\chi^2$/NDF:918.0/21

Out: 0.002+/-0.003 $\chi^2$/NDF:1662.3/23

All: -0.002+/-0.002 $\chi^2$/NDF: 2584.3/45

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.025+/-0.003 $\chi^2$/NDF: 28.5/15

Left Out: -0.038+/-0.003 $\chi^2$/NDF:9.1/5

Right Out: -0.018+/-0.003 $\chi^2$/NDF: 24.7/17

Left In: -0.034+/-0.003 $\chi^2$/NDF:13.9/5

Left: -0.036+/-0.002 $\chi^2$/NDF: 23.9/11

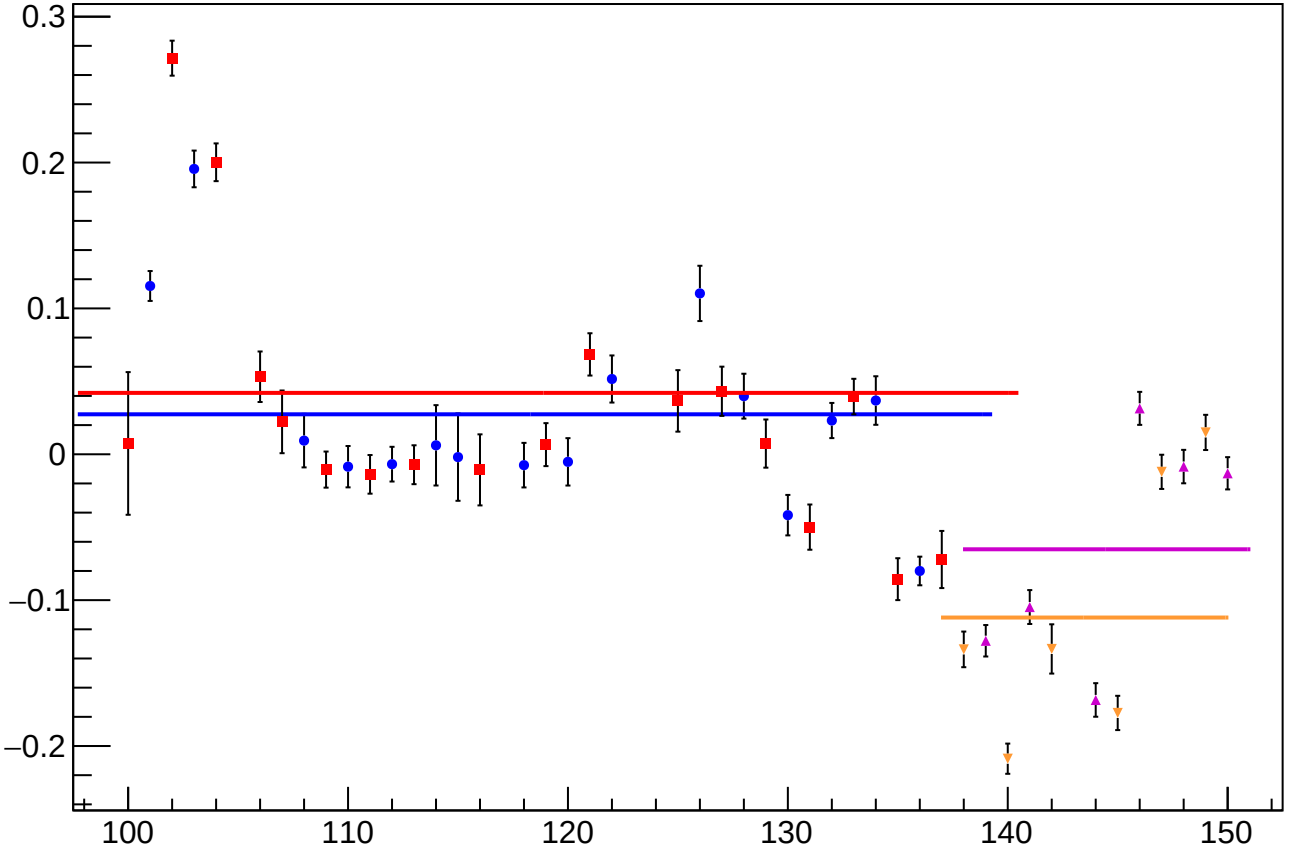
Right: -0.022+/-0.002 $\chi^2$/NDF: 55.1/33

In: -0.029+/-0.002 $\chi^2$/NDF:46.0/21

Out: -0.028+/-0.002 $\chi^2$/NDF:50.4/23

All: -0.029+/-0.002 $\chi^2$/NDF: 96.6/45

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.027+/-0.004 $\chi^2$/NDF: 446.1/15

Left Out: -0.112+/-0.005 $\chi^2$/NDF:306.4/5

Right Out: 0.042+/-0.004 $\chi^2$/NDF: 733.2/17

Left In: -0.065+/-0.005 $\chi^2$/NDF:245.6/5

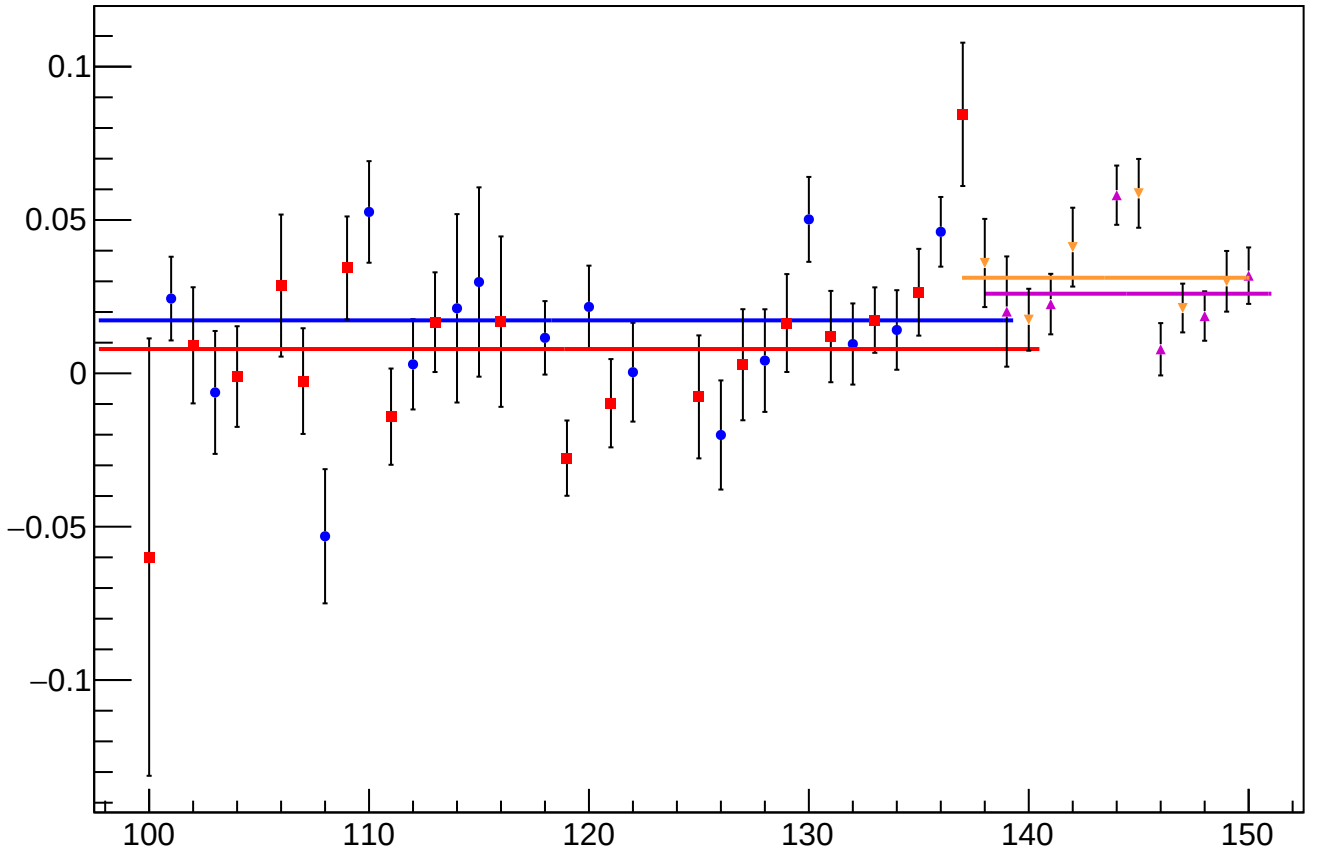
Left: -0.087+/-0.003 $\chi^2$/NDF: 600.0/11

Right: 0.035+/-0.003 $\chi^2$/NDF: 1187.6/33

In: -0.007+/-0.003 $\chi^2$/NDF:943.7/21

Out: -0.012+/-0.003 $\chi^2$/NDF:1669.3/23

All: -0.010+/-0.002 $\chi^2$/NDF: 2614.3/45




Right In: 0.017+/-0.004 $\chi^2$/NDF: 36.7/15

Left Out: 0.031+/-0.004 $\chi^2$/NDF:10.1/5

Right Out: 0.008+/-0.004 $\chi^2$/NDF: 31.4/17

Left In: 0.026+/-0.004 $\chi^2$/NDF:17.0/5

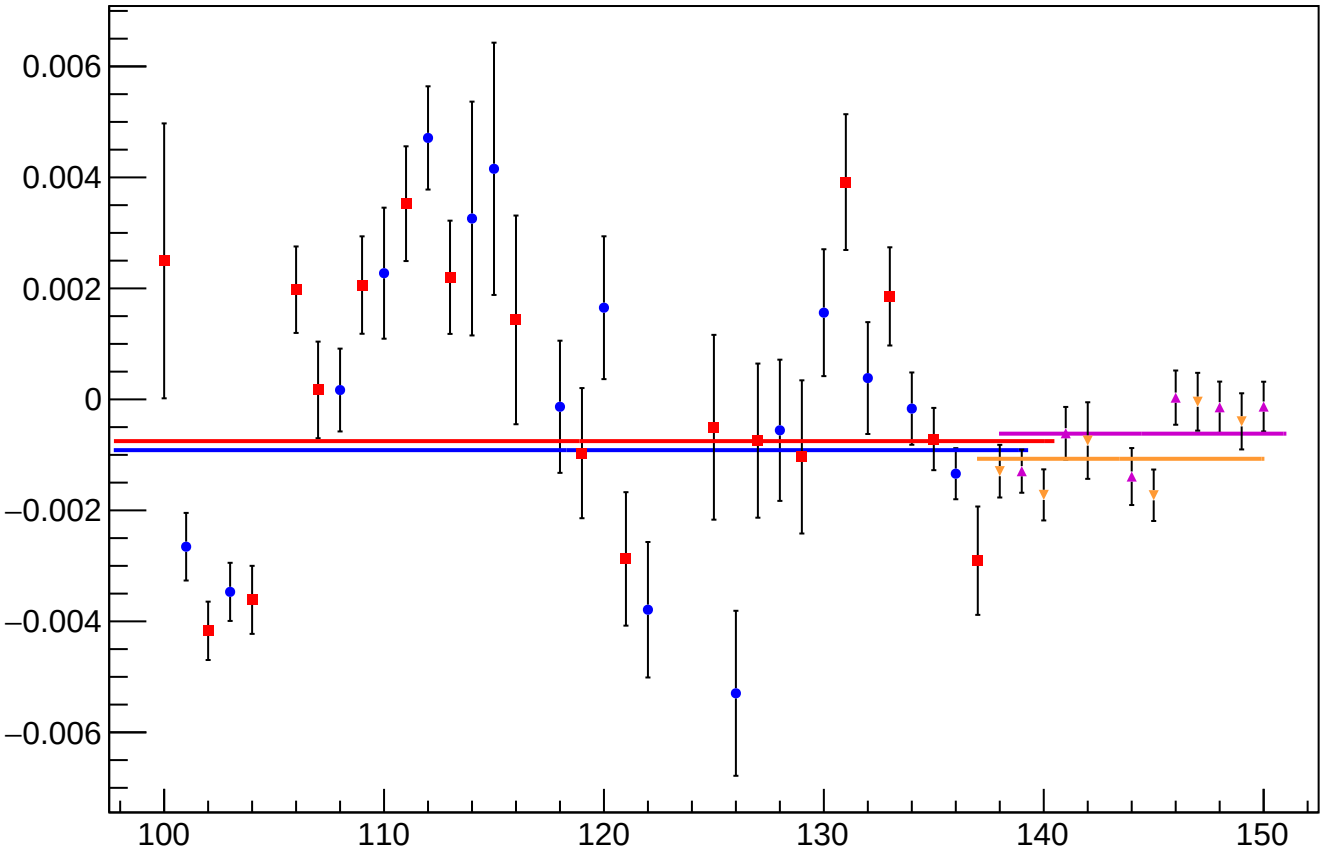
Left: 0.028+/-0.003 $\chi^2$/NDF: 27.9/11

Right: 0.013+/-0.003 $\chi^2$/NDF: 71.0/33

In: 0.022+/-0.003 $\chi^2$/NDF:56.2/21

Out: 0.018+/-0.003 $\chi^2$/NDF:57.6/23

All: 0.020+/-0.002 $\chi^2$/NDF: 114.4/45




Right In: -0.001+/-0.000 $\chi^2$/NDF: 114.1/15

Left Out: -0.001+/-0.000 $\chi^2$/NDF:10.1/5

Right Out: -0.001+/-0.000 $\chi^2$/NDF: 147.6/17

Left In: -0.001+/-0.000 $\chi^2$/NDF:9.3/5

Left: -0.001+/-0.000 $\chi^2$/NDF: 22.1/11

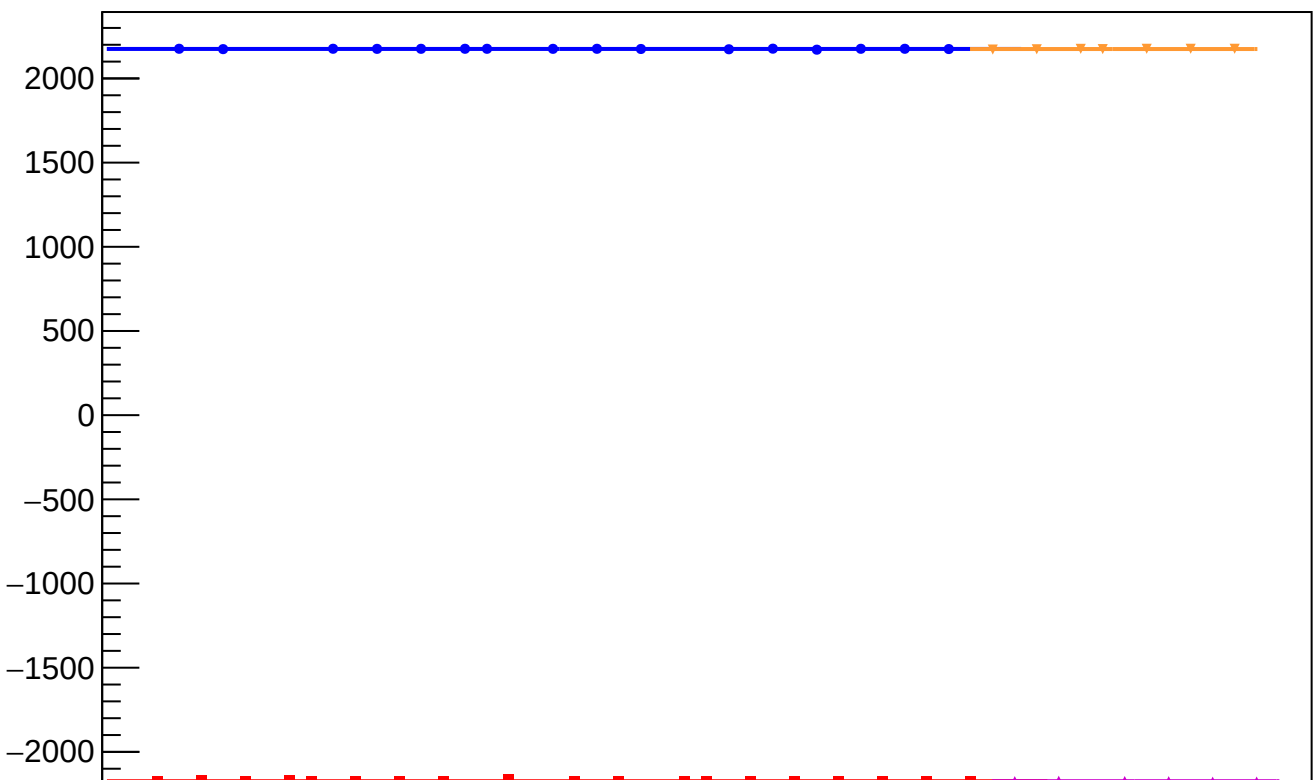
Right: -0.001+/-0.000 $\chi^2$/NDF: 261.9/33

In: -0.001+/-0.000 $\chi^2$/NDF:124.5/21

Out: -0.001+/-0.000 $\chi^2$/NDF:158.9/23

All: -0.001+/-0.000 $\chi^2$/NDF: 284.0/45

# HALLA_p_mean vs Slug, Sign Corrected




Right In: 2175.201+/-0.000 $\chi^2$/NDF: 176572407292366018093705133136281 6.0/15

Left Out: 2174.683+/-0.000 $\chi^2$/NDF:157879041234596933360282655470387 2.0/6

Right Out: -2174.324+/-0.000 $\chi^2$/NDF: 554223941568104692872352720171 8272.0/18

Left In: -2174.130+/-0.000 $\chi^2$/NDF:183875348723085190785132936770 3552.0/5

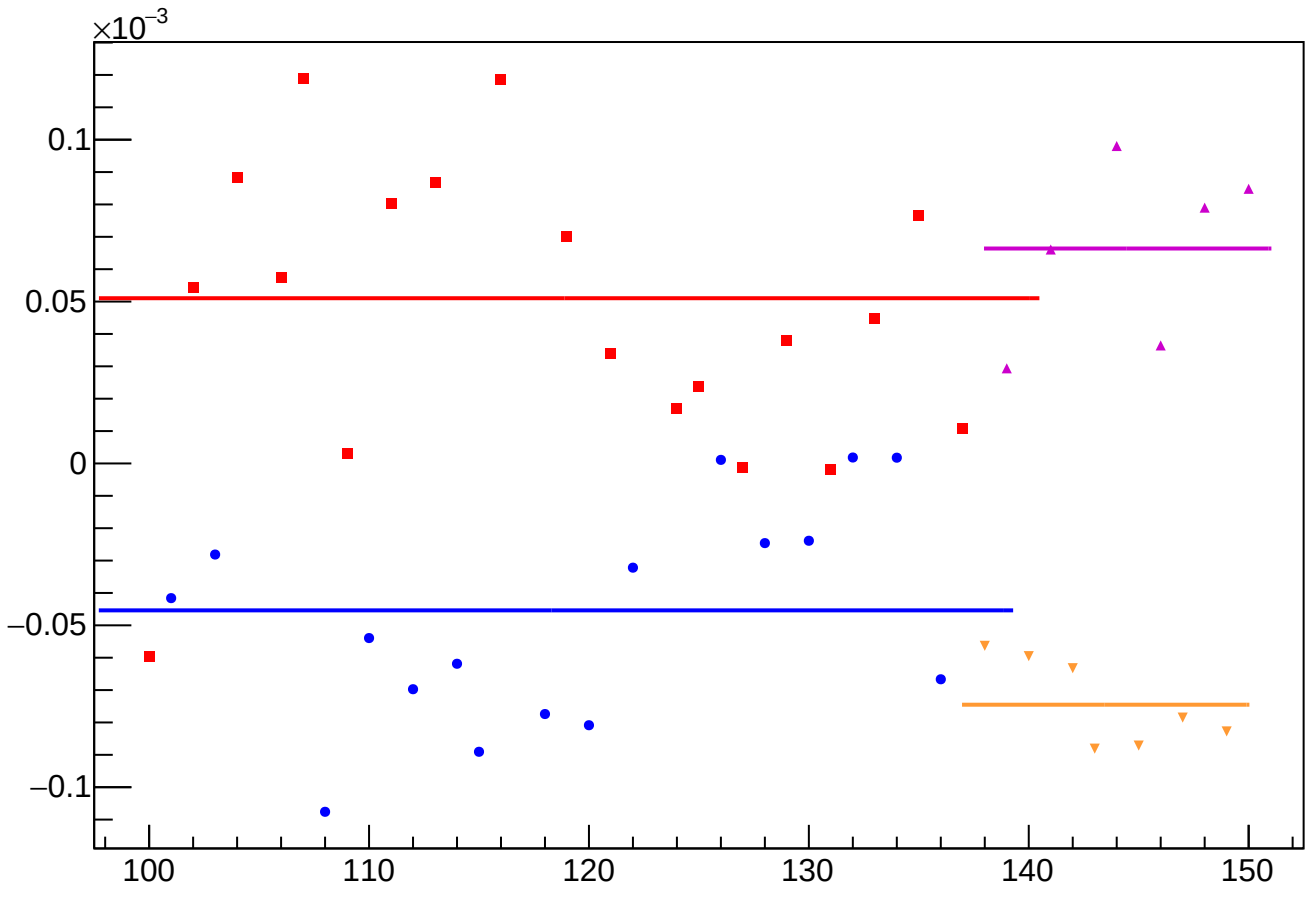
Left: 27.900+/-0.000 $\chi^2$/NDF: 52094659366791700

Right: -31.373+/-0.000 $\chi^2$/NDF: 7111791049076111

In: 333.928+/-0.000 $\chi^2$/NDF:59341586416567909

Out: -337.272+/-0.000 $\chi^2$/NDF:609588223618979

All: -6.308+/-0.000 $\chi^2$/NDF: 1232349146966




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7131320813781223777239040.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8838516480152502586572 8.0/6

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 10119559107206471011532800.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:33851516706834321558732 8.0/5

Left: -0.000+/-0.000 $\chi^2$/NDF: 58958845440285105

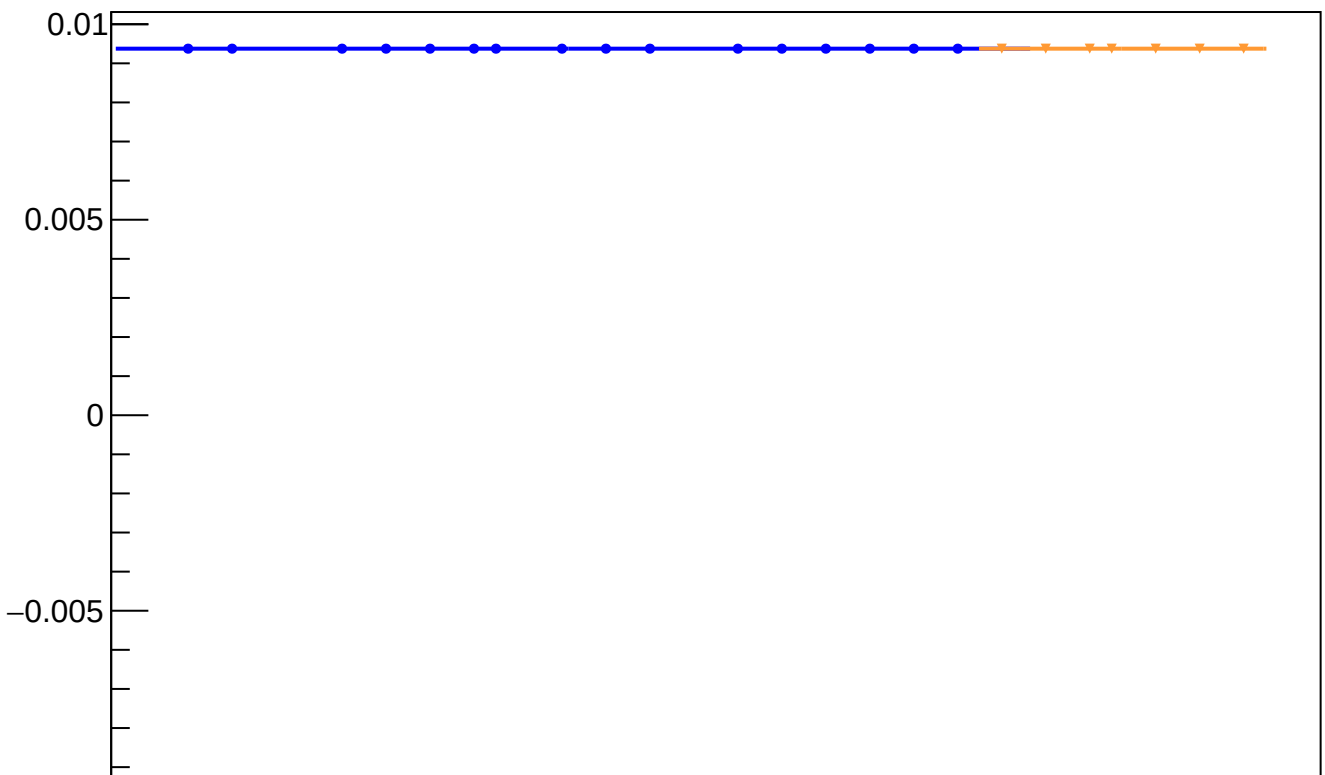
Right: 0.000+/-0.000 $\chi^2$/NDF: 52193568733401849

In: 0.000+/-0.000 $\chi^2$/NDF:4970188450672691189

Out: -0.000+/-0.000 $\chi^2$/NDF:61808394402951571

All: -0.000+/-0.000 $\chi^2$/NDF: 1116112720852

# MQ171LM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/6

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/5

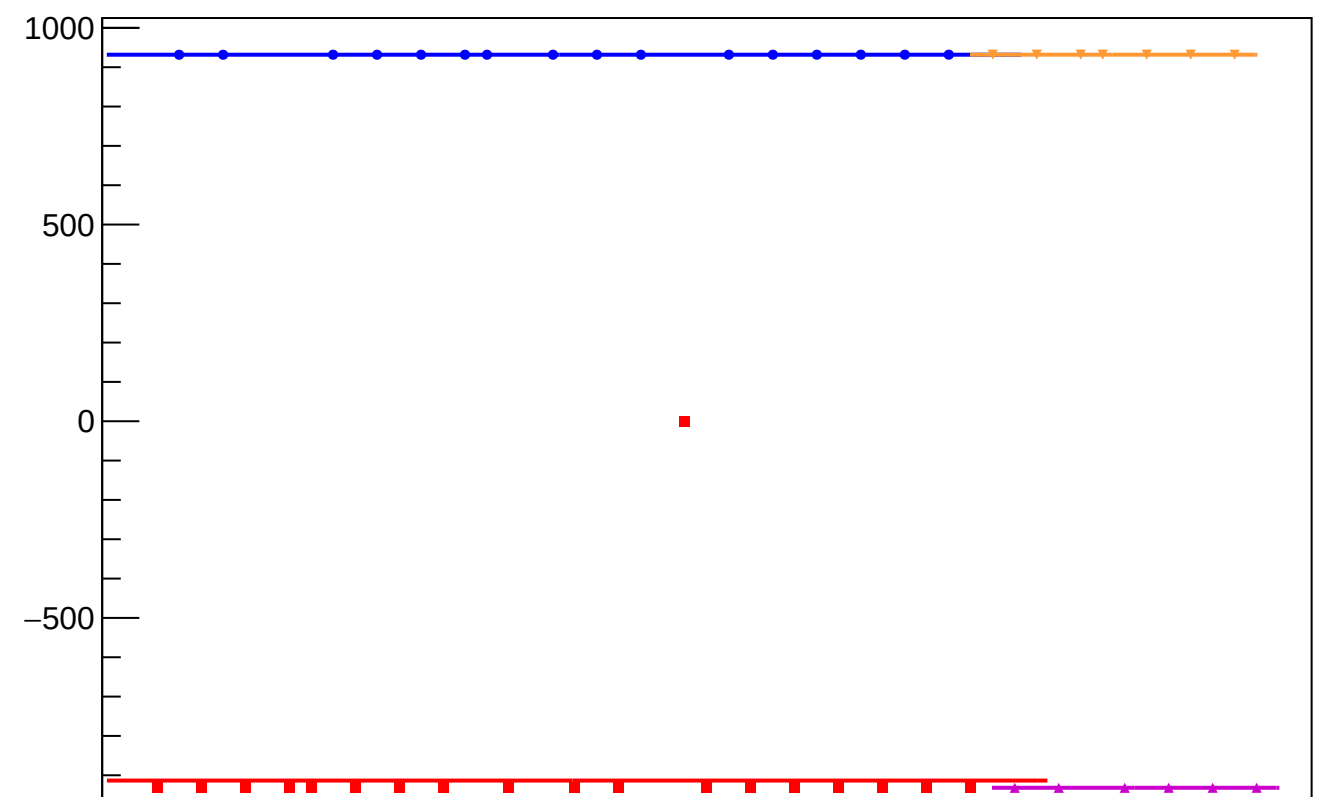
Left: 0.000+/-0.000 $\chi^2$/NDF: 968398366606167216

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: 0.001+/-0.000 $\chi^2$/NDF:1102850194552526790

Out: -0.001+/-0.000 $\chi^2$/NDF:11330744937547296

All: -0.000+/-0.000 $\chi^2$/NDF: 2290408102695




Right In: 931.769+/-0.000 $\chi^2$/NDF: 2757217223595001187167685836800.0/15

Left Out: 931.824+/-0.000 $\chi^2$/NDF:212376551772273378494576485990 4.0/6

Right Out: -913.447+/-0.000 $\chi^2$/NDF: 12765879635094435683491886518824337408.0/18

Left In: -931.806+/-0.000 $\chi^2$/NDF:22722131884333230613258064363 52.0/5

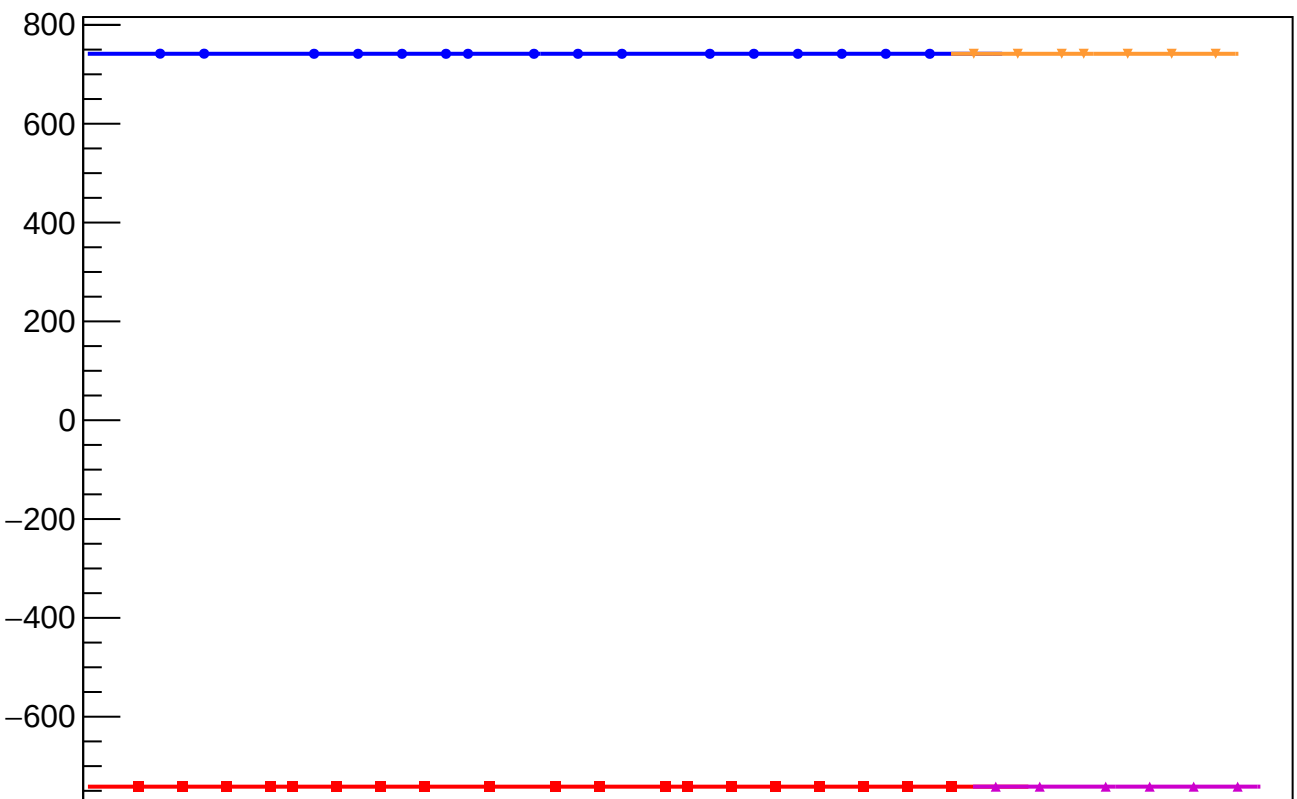
Left: 11.847+/-0.000 $\chi^2$/NDF: 9566895662324296

Right: -4.335+/-0.000 $\chi^2$/NDF: 1292705120140630

In: 142.831+/-0.000 $\chi^2$/NDF:10894511690909842

Out: -133.991+/-0.000 $\chi^2$/NDF:111019470604174

All: 2.508+/-0.000 $\chi^2$/NDF: 2249561219258




Right In: 741.569+/-0.000 $\chi^2$/NDF: 643295117612794706193889938636 8.0/15

Left Out: 741.527+/-0.000 $\chi^2$/NDF:135012188284374630141253386 24.0/6

Right Out: -741.577+/-0.000 $\chi^2$/NDF: 769226394789261471153747761 5616.0/18

Left In: -741.526+/-0.000 $\chi^2$/NDF:171886560422736584730445086 72.0/5

Left: 9.421+/-0.000 $\chi^2$/NDF: 605849929467150077

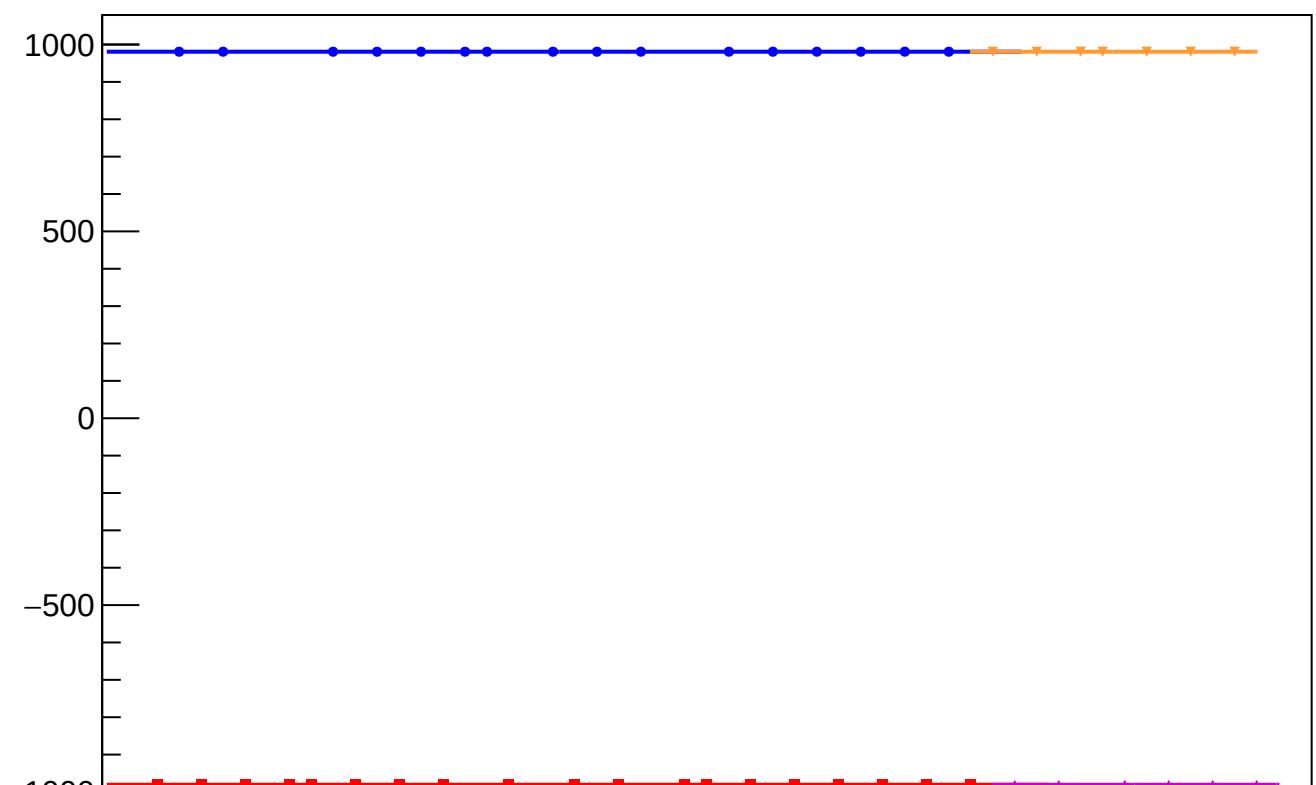
Right: -10.851+/-0.000 $\chi^2$/NDF: 826918104240998

In: 113.706+/-0.000 $\chi^2$/NDF:69000451546281485

Out: -115.103+/-0.000 $\chi^2$/NDF:708923081912057

All: -2.279+/-0.000 $\chi^2$/NDF: 1433029410418

# HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected




Right In: 980.804+/-0.000 $\chi^2$/NDF: 9333132768848077867742459330560.0/15

Left Out: 980.782+/-0.000 $\chi^2$/NDF:46294047589392108586651562803 2.0/6

Right Out: -980.725+/-0.000 $\chi^2$/NDF: 560402056173583362216628762705 92.0/18

Left In: -980.796+/-0.000 $\chi^2$/NDF:74258438019704553672937360588 8.0/5

Left: 12.453+/-0.000 $\chi^2$/NDF: 10598945166719880

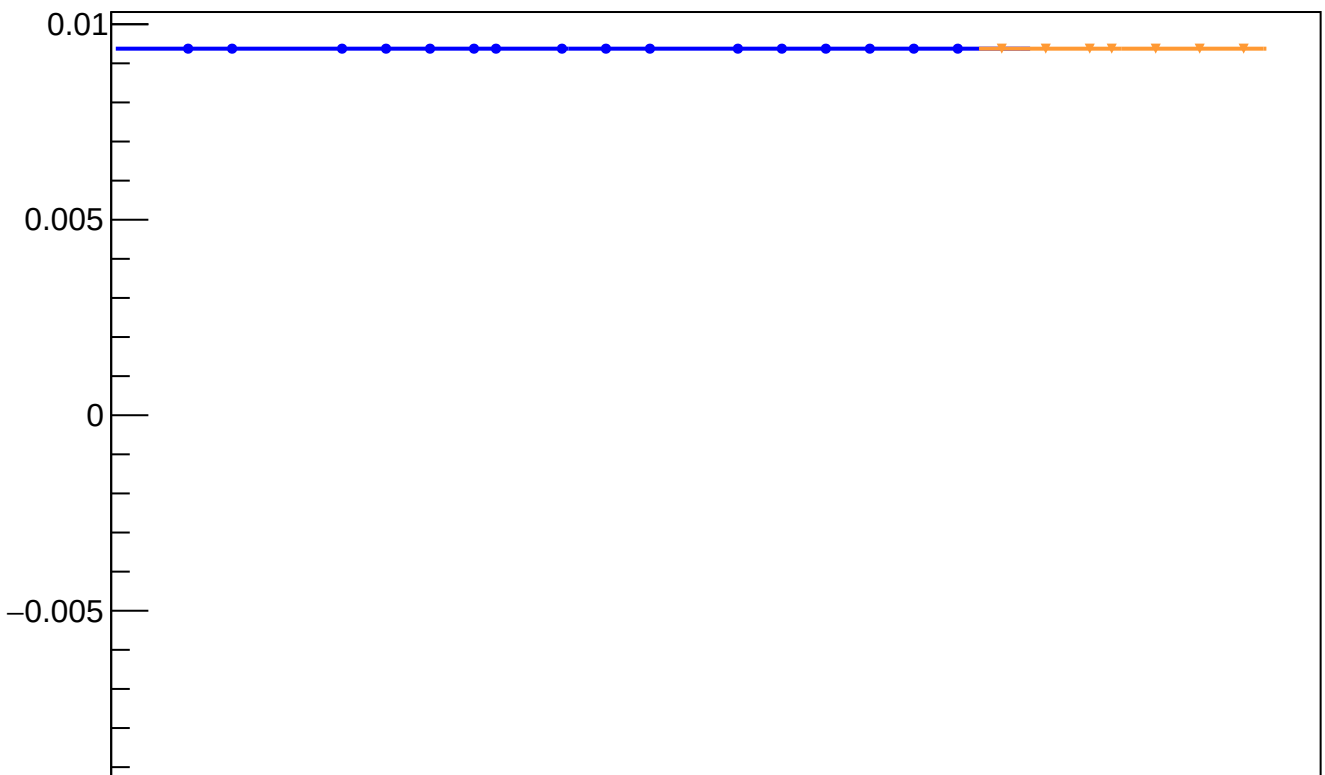
Right: -14.307+/-0.000 $\chi^2$/NDF: 1446386008808569

In: 150.368+/-0.000 $\chi^2$/NDF:12070764563595115

Out: -152.170+/-0.000 $\chi^2$/NDF:12400396338021 8

All: -2.991+/-0.000 $\chi^2$/NDF: 2506735958326

# MQ172RM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/6

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/5

Left: 0.000+/-0.000 $\chi^2$/NDF: 968398366606167216

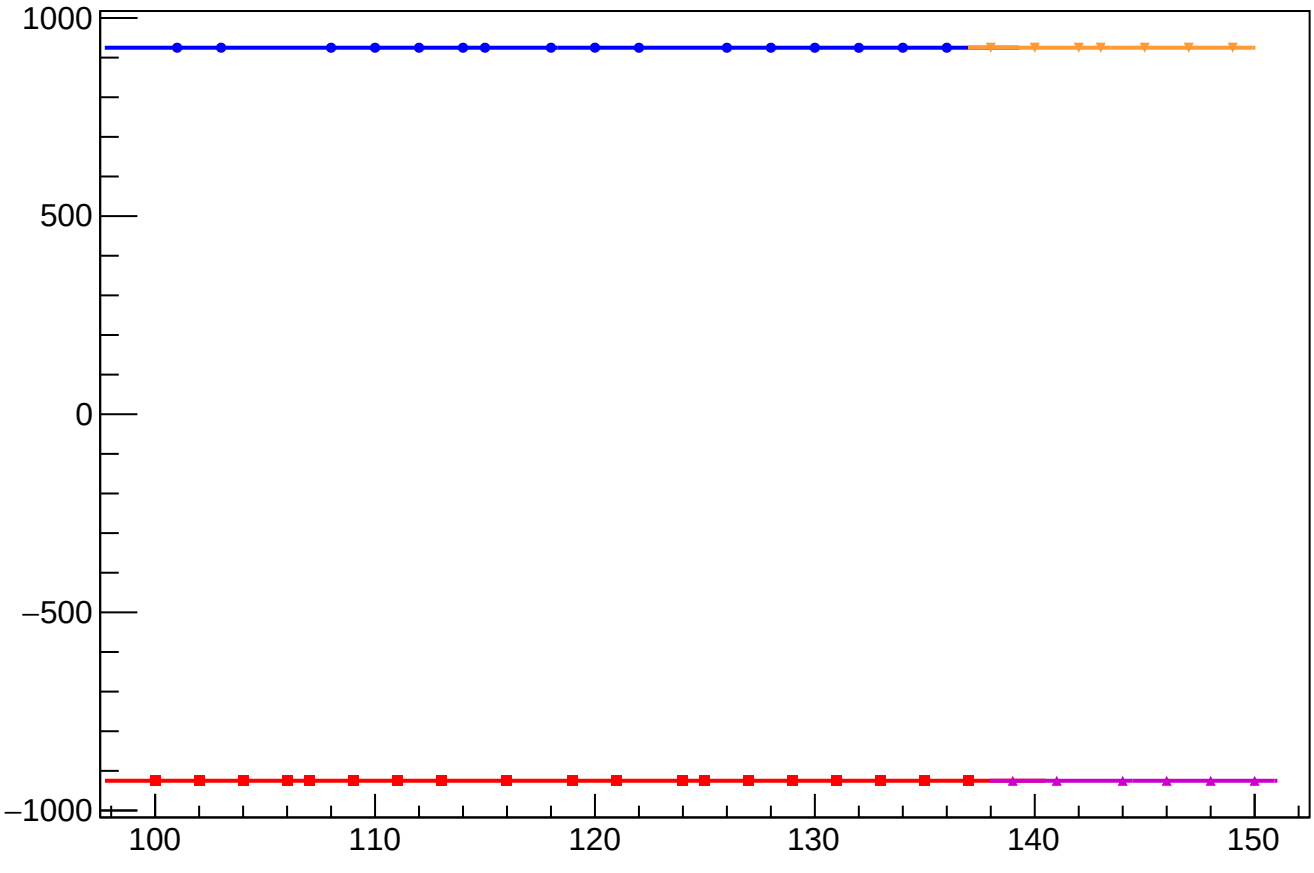
Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: 0.001+/-0.000 $\chi^2$/NDF:1102850194552526790

Out: -0.001+/-0.000 $\chi^2$/NDF:11330744937547296

All: -0.000+/-0.000 $\chi^2$/NDF: 2290408102695

# HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected




Right In: 924.966+/-0.000 $\chi^2$/NDF: 254437050808765880053303712153 6.0/15

Left Out: 924.996+/-0.000 $\chi^2$/NDF:35739919236940112750548143308 8.0/6

Right Out: -924.974+/-0.000 $\chi^2$/NDF: 124198152111689090023635183206 4.0/18

Left In: -924.997+/-0.000 $\chi^2$/NDF:22175677261369308901335996825 6.0/5

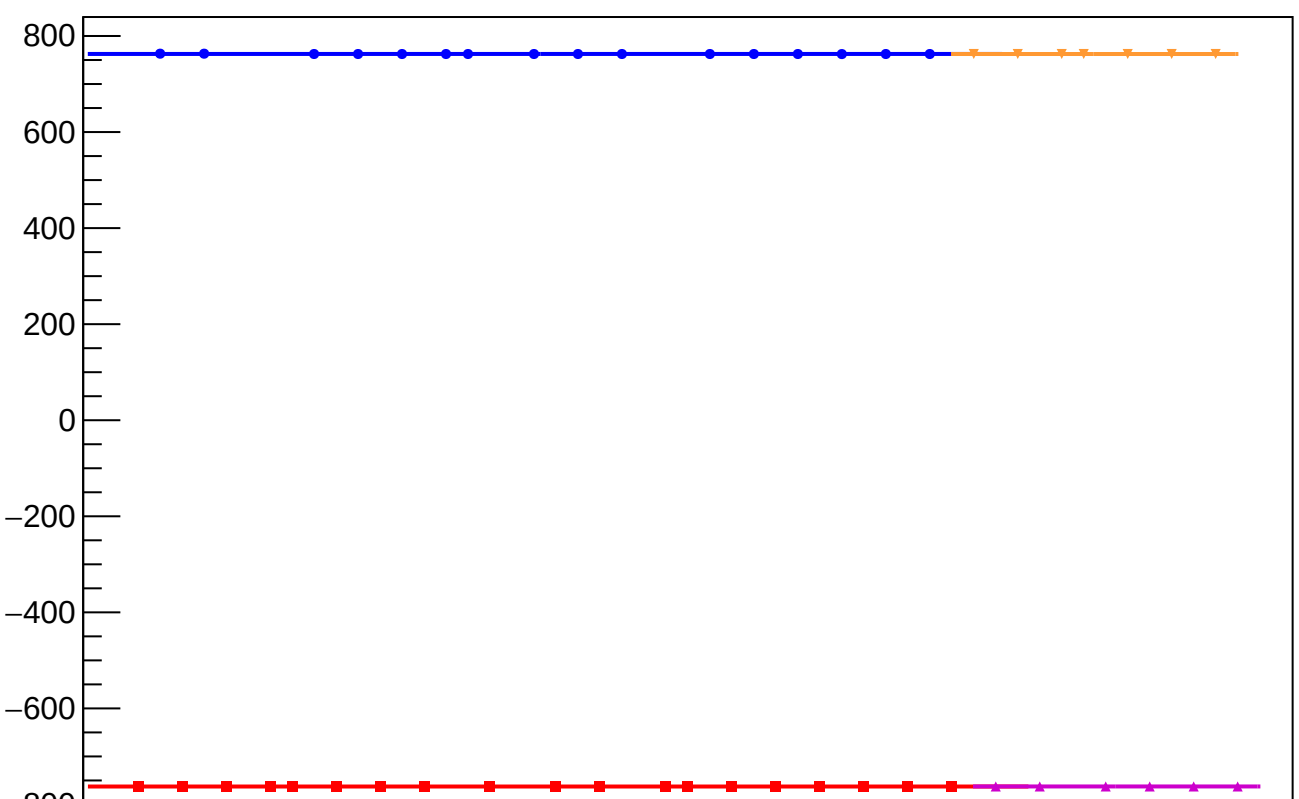
Left: 11.751+/-0.000 $\chi^2$/NDF: 9427392913560073

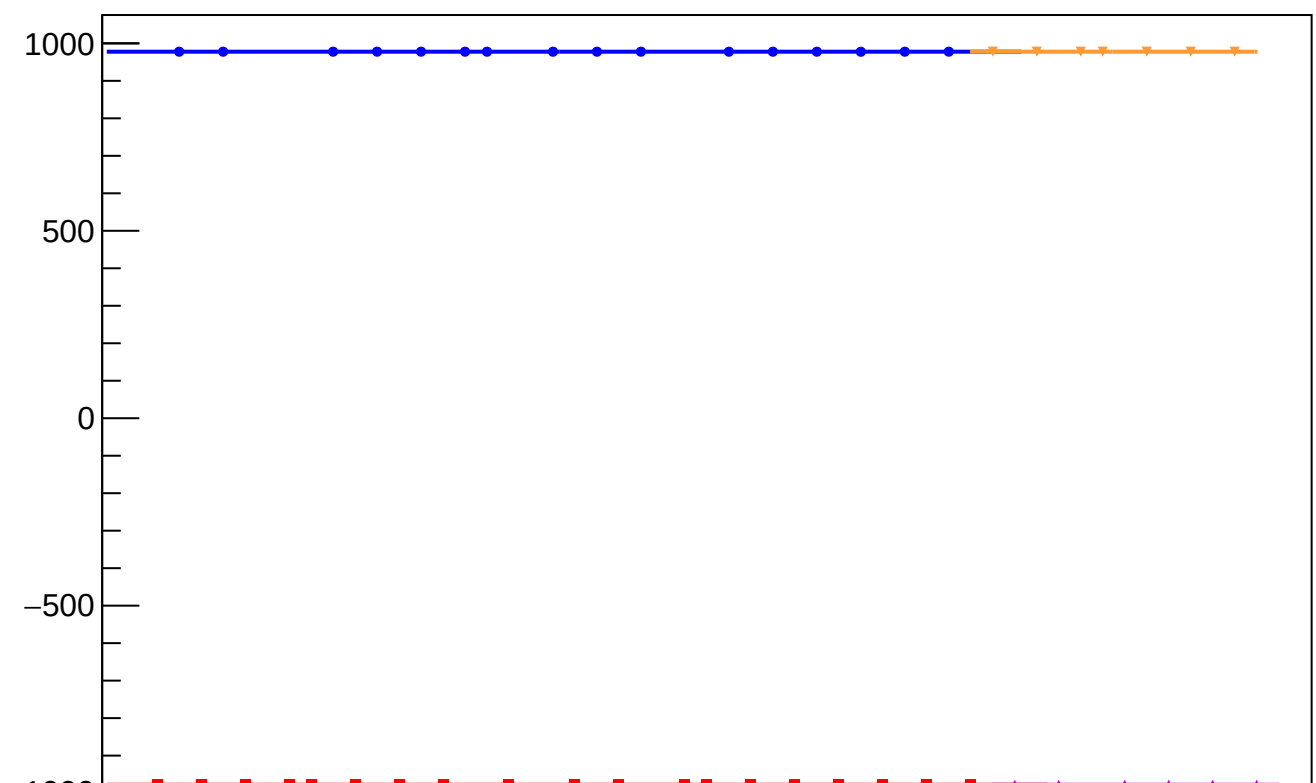
Right: -13.534+/-0.000 $\chi^2$/NDF: 128650155911450

In: 141.791+/-0.000 $\chi^2$/NDF:1073593723579842

Out: -143.533+/-0.000 $\chi^2$/NDF:110302523106239

All: -2.842+/-0.000 $\chi^2$/NDF: 2229647470827


HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected
800
600
400
200
0
−200
−400
−600
−800
100
110
120
130
140
150
Right In: 762.611+/-0.000 χ²/NDF: 52161453489138778834460408283136.0/15
Left Out: 762.495+/-0.000 χ²/NDF:536726237778743226334539939840/6
Right Out: -762.618+/-0.000 χ²/NDF: 5313433853263039584129784374886 4.0/18
Left In: -762.498+/-0.000 χ²/NDF:518436373843587470328772689 92.0/5
Left: 9.685+/-0.000 χ²/NDF: 6406002164878573
Right: -11.159+/-0.000 χ²/NDF: 87451027463926
In: 116.962+/-0.000 χ²/NDF:72965175095727
Out: -118.399+/-0.000 χ²/NDF:74965228431361
All: -2.345+/-0.000 χ²/NDF: 151538681871




Right In: 977.749+/-0.000 $\chi^2$/NDF: 19595783310723160744482245181440/15

Left Out: 977.764+/-0.000 $\chi^2$/NDF:560945816148449721158480166912.0/6

Right Out: -977.747+/-0.000 $\chi^2$/NDF: 178222687781691472632796623672.0/18

Left In: -977.756+/-0.000 $\chi^2$/NDF:706773857901233708681041805312.0/5

Left: 12.426+/-0.000 $\chi^2$/NDF: 1053358826553598

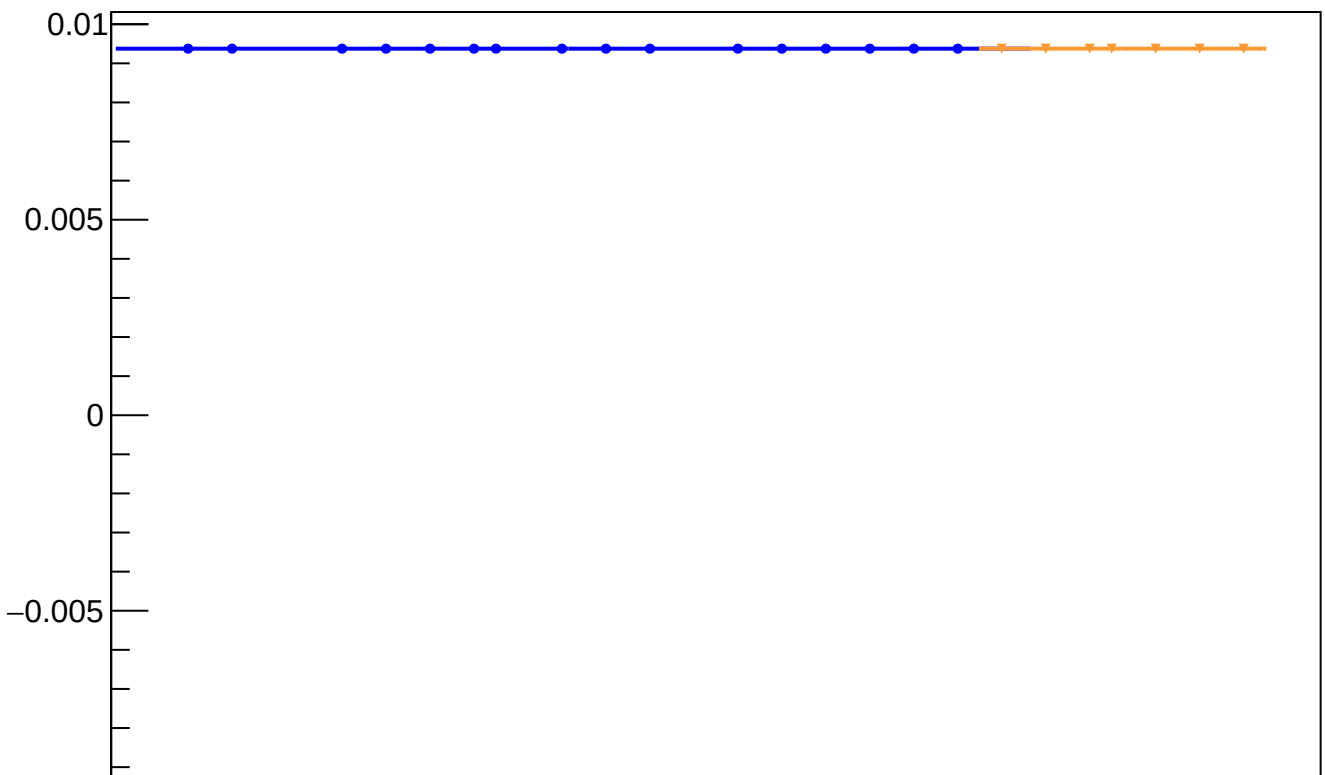
Right: -14.301+/-0.000 $\chi^2$/NDF: 143750377983115

In: 149.893+/-0.000 $\chi^2$/NDF:1199587862950362

Out: -151.725+/-0.000 $\chi^2$/NDF:123247113489235

All: -2.999+/-0.000 $\chi^2$/NDF: 2491316916519

# hesDipole_current_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/6

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/5

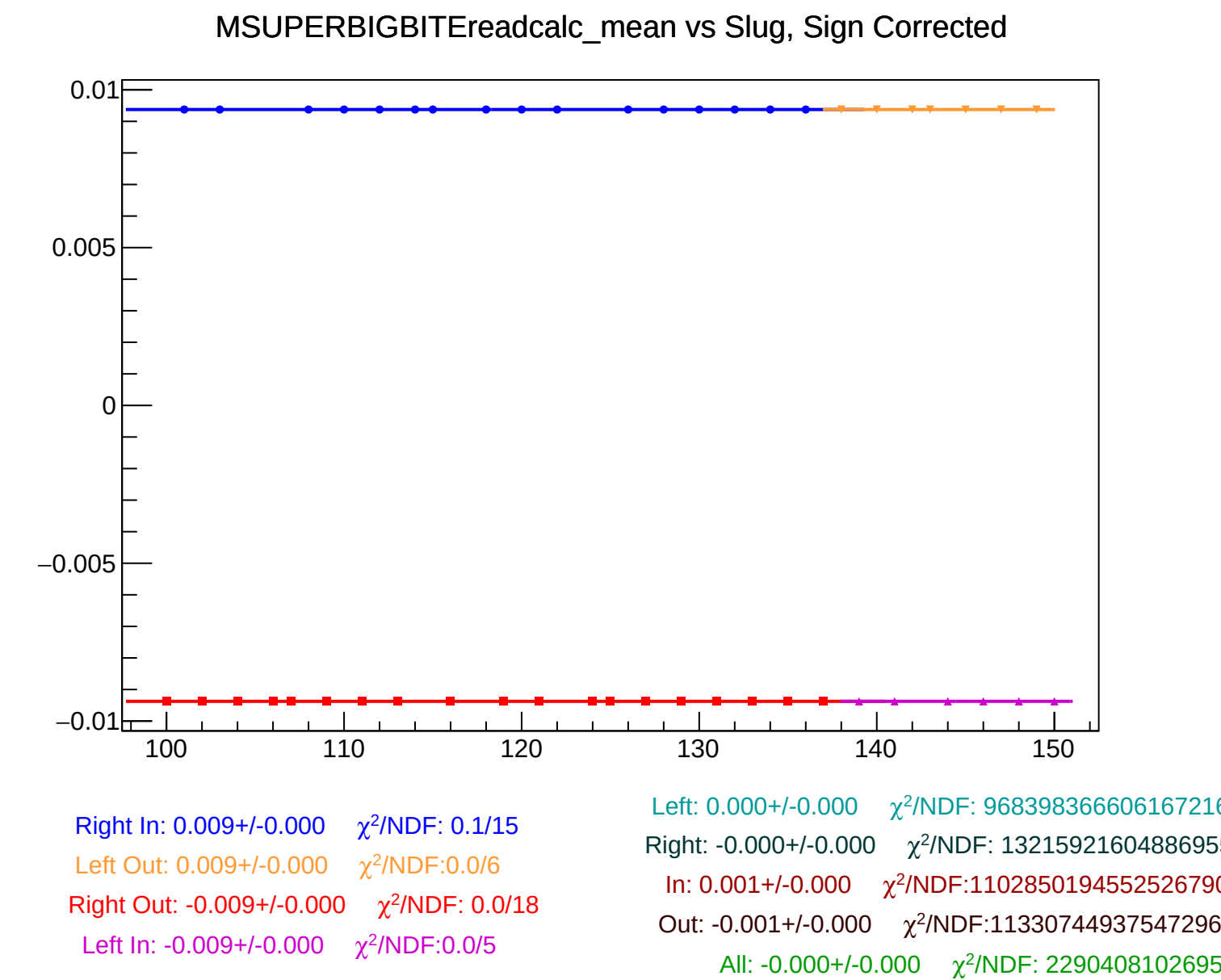
Left: 0.000+/-0.000 $\chi^2$/NDF: 968398366606167216

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

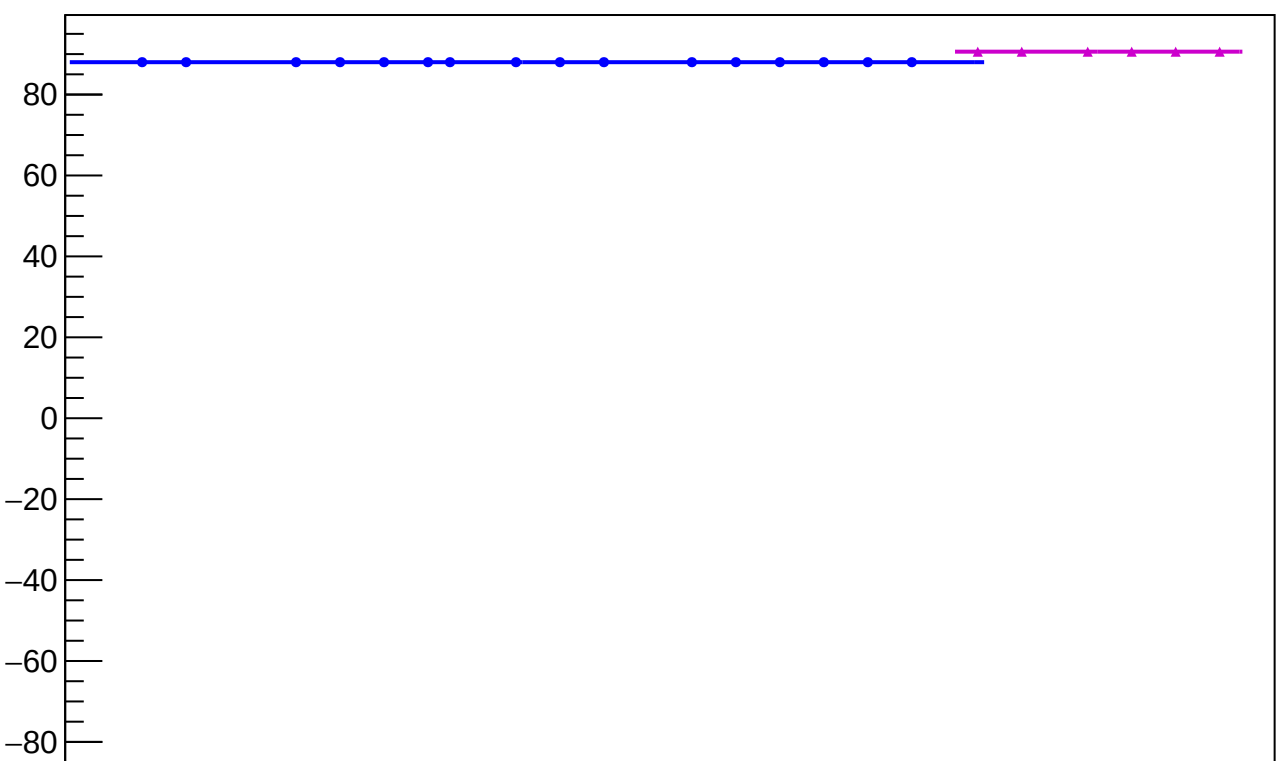
In: 0.001+/-0.000 $\chi^2$/NDF:1102850194552526790

Out: -0.001+/-0.000 $\chi^2$/NDF:11330744937547296

All: -0.000+/-0.000 $\chi^2$/NDF: 2290408102695


MSUPERBIGBITEreadcalc_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
110
120
130
140
150
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/6
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/5
Left: 0.000+/-0.000 χ²/NDF: 968398366606167216
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.001+/-0.000 χ²/NDF:110285019455252679
Out: -0.001+/-0.000 χ²/NDF:11330744937547296
All: -0.000+/-0.000 χ²/NDF: 2290408102695

# VWienAngle_mean vs Slug, Sign Corrected




Right In: 88.001+/-0.000 $\chi^2$/NDF: 1500072.7/15

Left Out: -90.599+/-0.000 $\chi^2$/NDF:2766693.0/6

Right Out: -88.003+/-0.000 $\chi^2$/NDF: 732270589413796643601760911360/18

Left In: 90.599+/-0.000 $\chi^2$/NDF:854443.6/5

Left: -1.151+/-0.000 $\chi^2$/NDF: 90440124154194672

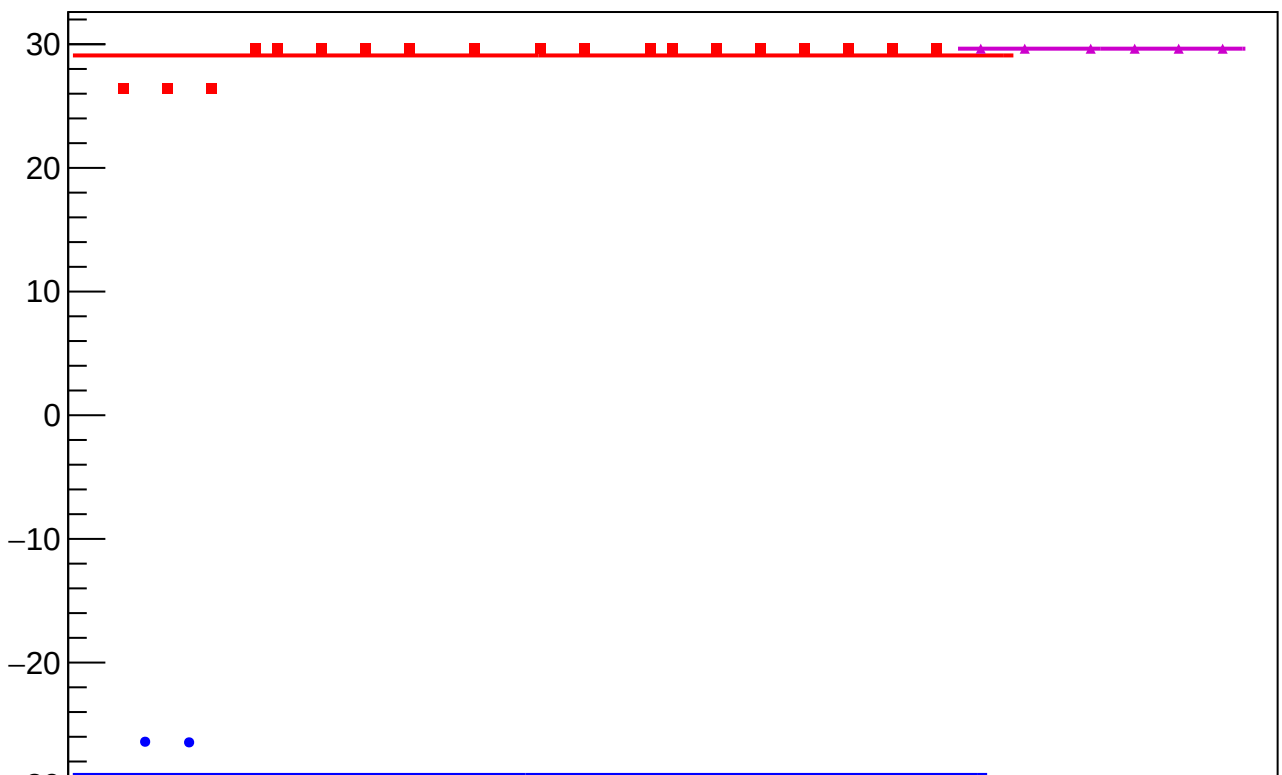
Right: -1.289+/-0.000 $\chi^2$/NDF: 1164502782894649

In: 89.101+/-0.000 $\chi^2$/NDF:211831606159800042

Out: -89.100+/-0.000 $\chi^2$/NDF:2171916741211748

All: -1.230+/-0.000 $\chi^2$/NDF: 2068905229084

# HWienAngle_mean vs Slug, Sign Corrected




Right In: -29.085+/-0.000 $\chi^2$/NDF: 109436788525160987735503641195315 2.0/15

Left Out: -29.641+/-0.000 $\chi^2$/NDF:156118.7/6

Right Out: 29.093+/-0.000 $\chi^2$/NDF: 1125238156749692849797805899776000.0/18

Left In: 29.641+/-0.000 $\chi^2$/NDF:24625.1/5

Left: -0.377+/-0.000 $\chi^2$/NDF: 96802929116541017

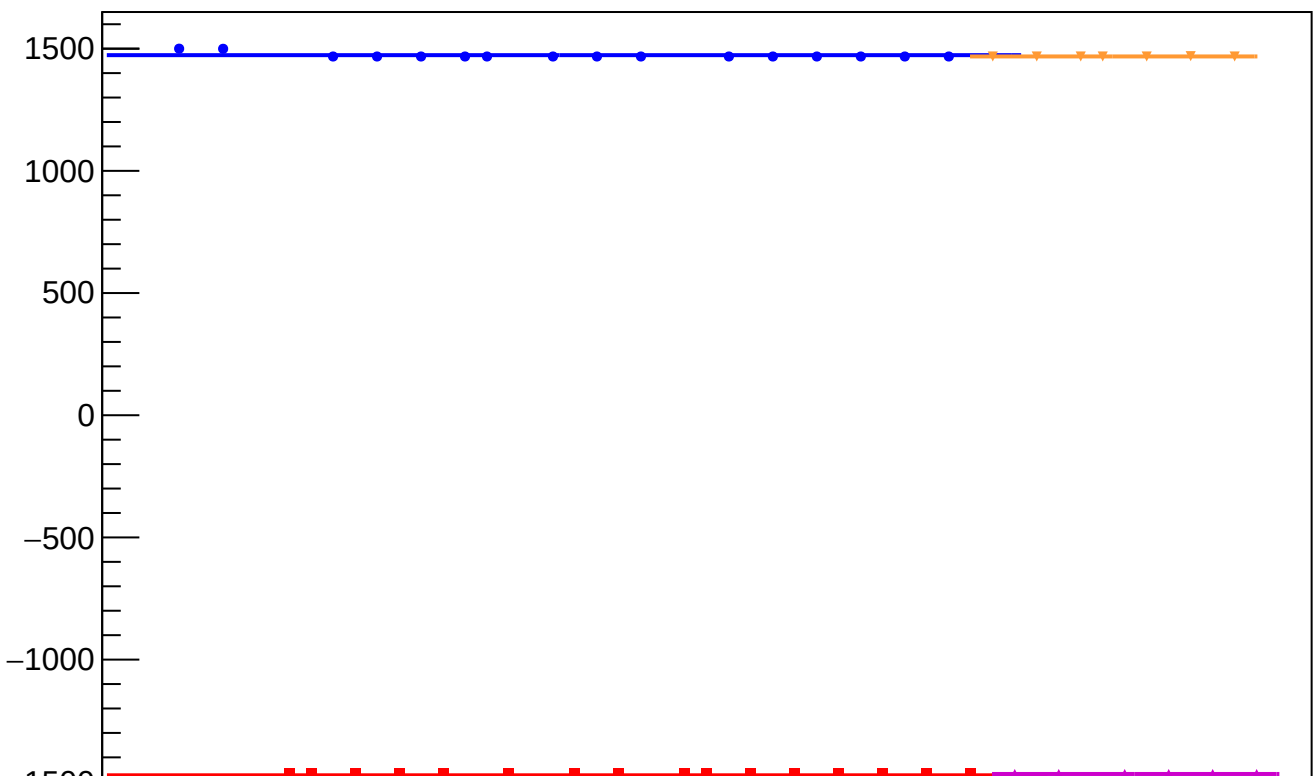
Right: 0.429+/-0.000 $\chi^2$/NDF: 12746007522578358

In: -4.224+/-0.000 $\chi^2$/NDF:108296750939833836

Out: 4.283+/-0.000 $\chi^2$/NDF:111293241982681021

All: 0.089+/-0.000 $\chi^2$/NDF: 22430430318222

# psub_pl_pos_mean vs Slug, Sign Corrected




Right In: 1473.467+/-0.000 $\chi^2$/NDF: 10689419486070617687848579370477158 4.0/15

Left Out: 1468.185+/-0.000 $\chi^2$/NDF:1256871870912472383949210365460 48.0/6

Right Out: -1473.393+/-0.000 $\chi^2$/NDF: 1099094997334010787610678433006 22336.0/18

Left In: -1467.979+/-0.000 $\chi^2$/NDF:48028174.3/5

Left: 18.753+/-0.000 $\chi^2$/NDF: 23747184867528537

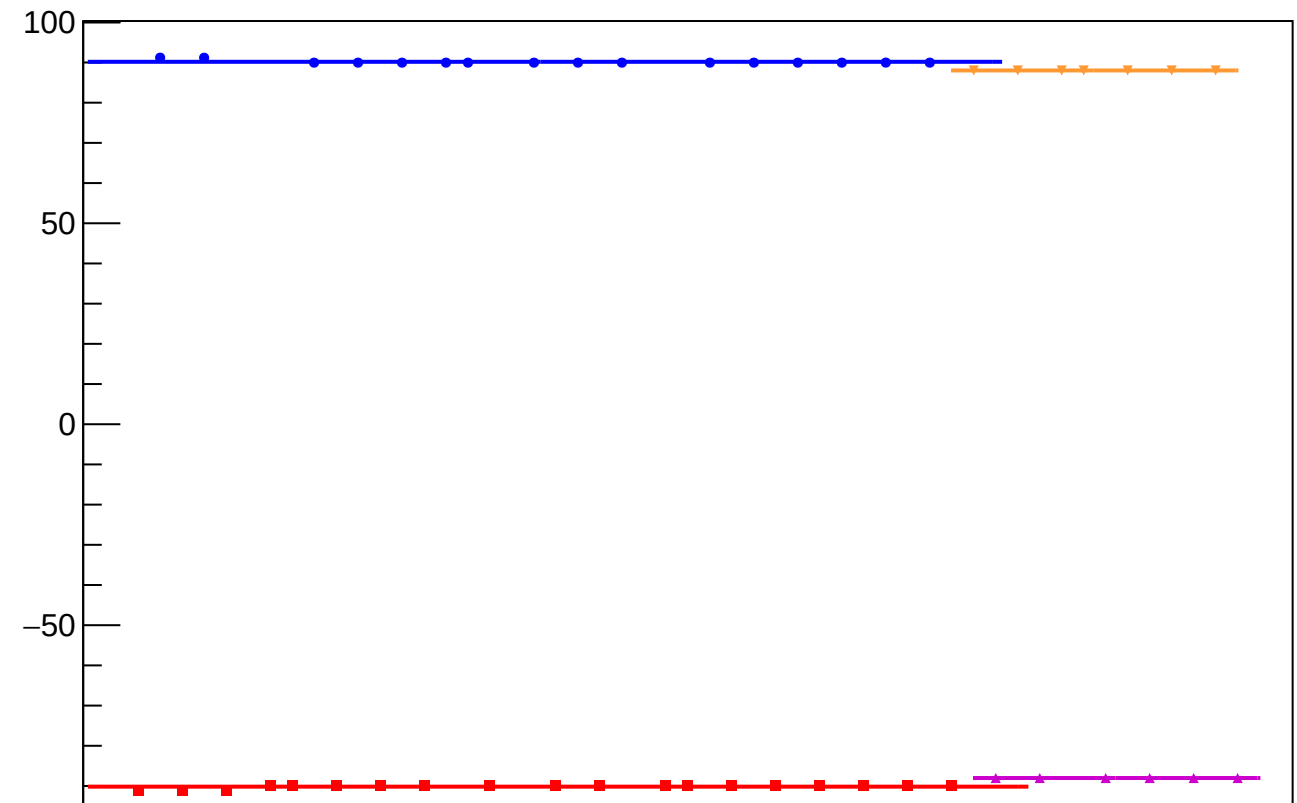
Right: -21.516+/-0.000 $\chi^2$/NDF: 3264697385914600

In: 228.217+/-0.000 $\chi^2$/NDF:27142701026899576

Out: -230.849+/-0.000 $\chi^2$/NDF:278890507439641

All: -4.487+/-0.000 $\chi^2$/NDF: 5640447207267

# Phi_FG_mean vs Slug, Sign Corrected




Right In: 90.173+/-0.000 $\chi^2$/NDF: 160010492173064584437589858058240.0/15

Left Out: 88.021+/-0.000 $\chi^2$/NDF:2396117.7/6

Right Out: -90.169+/-0.000 $\chi^2$/NDF: 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000 $\chi^2$/NDF:510929.4/5

Left: 1.118+/-0.000 $\chi^2$/NDF: 853652590093744555

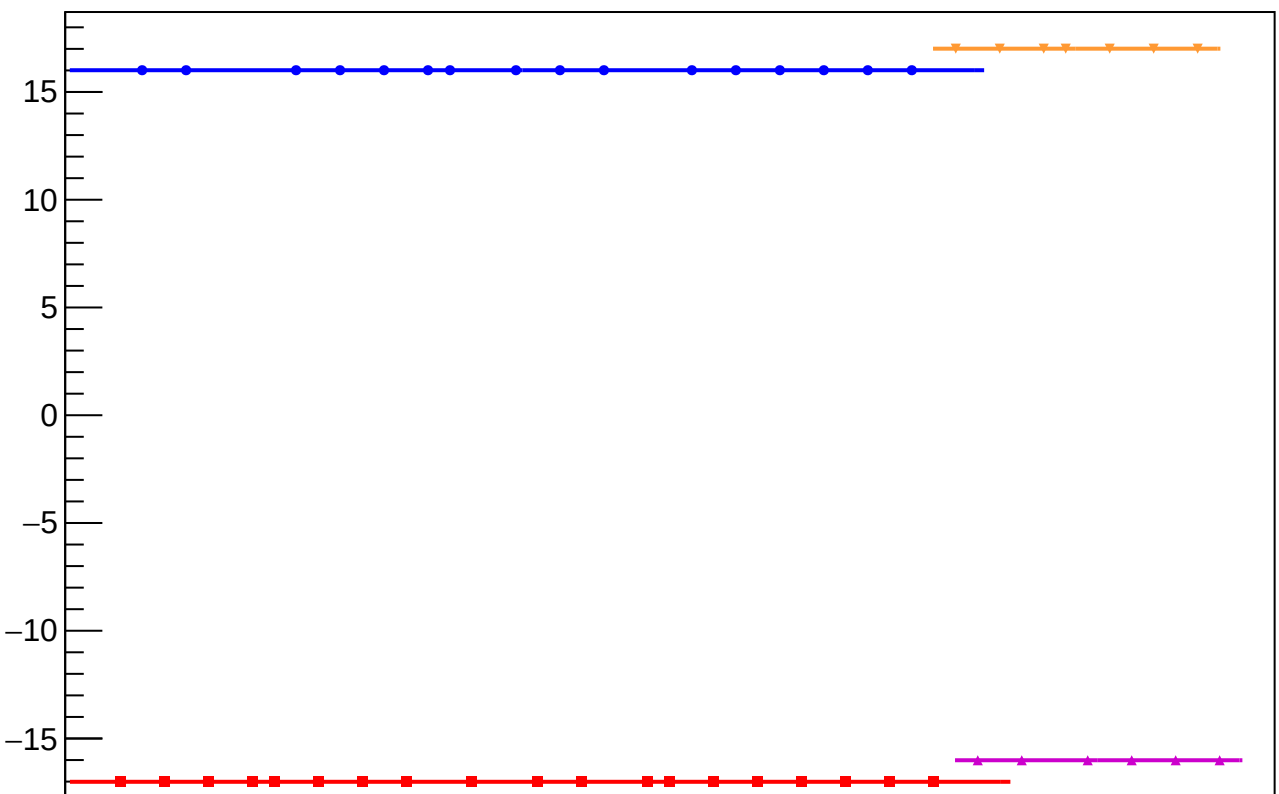
Right: -1.317+/-0.000 $\chi^2$/NDF: 1222640469973926

In: 14.735+/-0.000 $\chi^2$/NDF:996103529287251957

Out: -14.900+/-0.000 $\chi^2$/NDF:1023358602215835

All: -0.287+/-0.000 $\chi^2$/NDF: 2076670253537

# IGL1I00DI24_24M_mean vs Slug, Sign Corrected




Right In: 16.009+/-0.000 $\chi^2$/NDF: 44239.3/15

Left Out: 17.009+/-0.000 $\chi^2$/NDF:4577789366436888274010112.0/6

Right Out: -17.009+/-0.000 $\chi^2$/NDF: 13878987313036743260766208.0/18

Left In: -16.009+/-0.000 $\chi^2$/NDF:54273.6/5

Left: 0.484+/-0.000 $\chi^2$/NDF: 278280104341698676

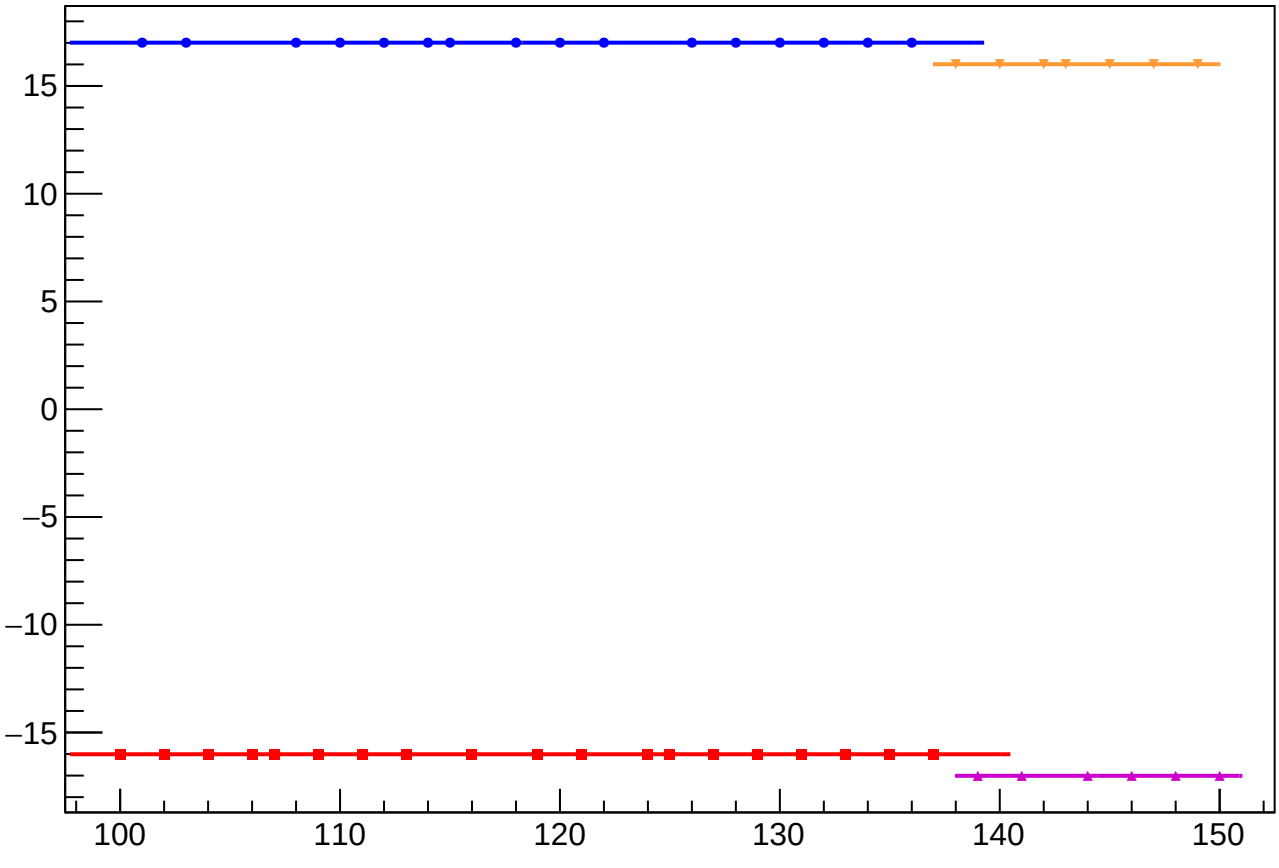
Right: -0.393+/-0.000 $\chi^2$/NDF: 38020254772992161

In: 2.521+/-0.000 $\chi^2$/NDF:303183776185658455

Out: -2.587+/-0.000 $\chi^2$/NDF:33999136068264888

All: -0.023+/-0.000 $\chi^2$/NDF: 6589362692511

# IGL1I00OD16_16_mean vs Slug, Sign Corrected




Right In: 17.009+/-0.000 $\chi^2$/NDF: 126634.3/15

Left Out: 16.009+/-0.000 $\chi^2$/NDF:41765.5/6

Right Out: -16.009+/-0.000 $\chi^2$/NDF: 39518.8/18

Left In: -17.009+/-0.000 $\chi^2$/NDF:9365.4/5

Left: -0.424+/-0.000 $\chi^2$/NDF: 29790125873398897

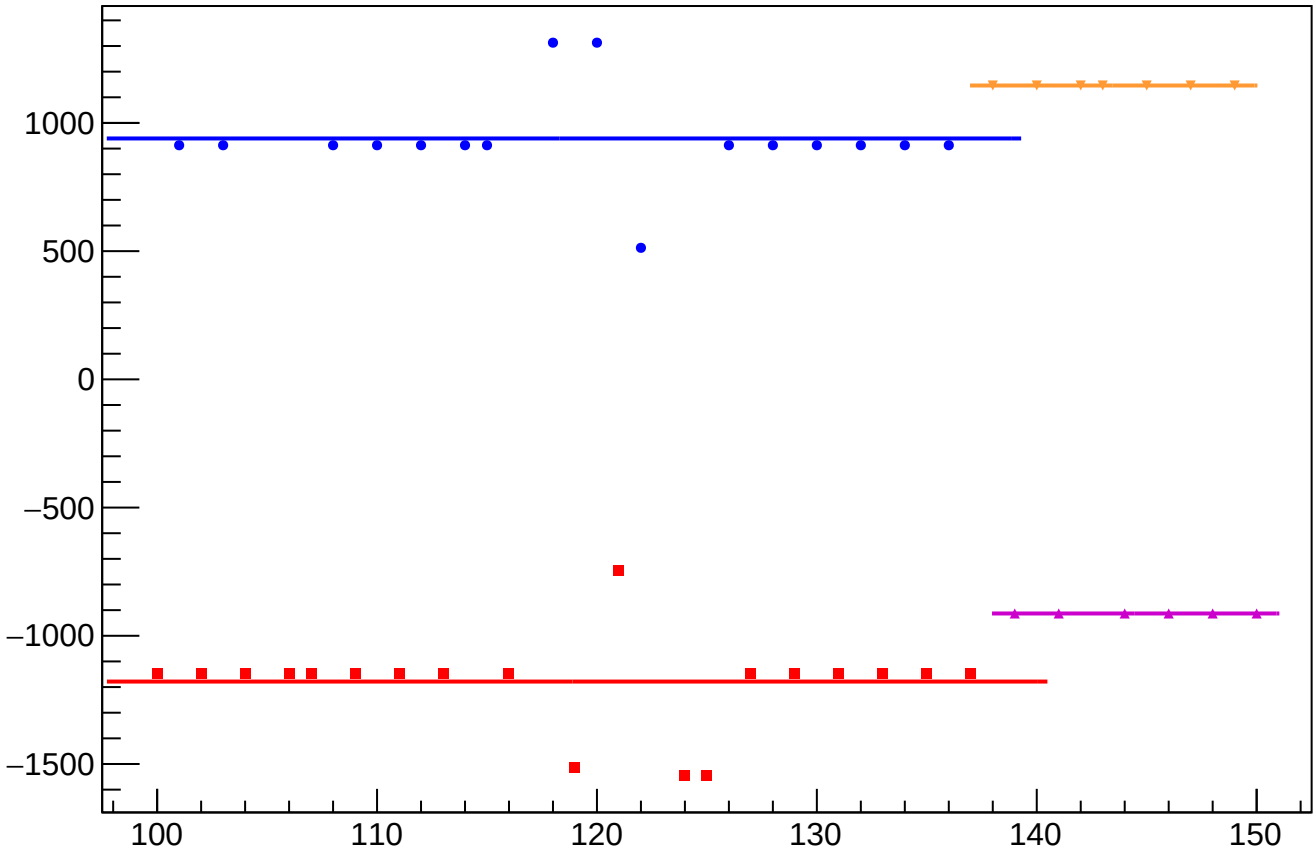
Right: -0.086+/-0.000 $\chi^2$/NDF: 39906944354741345

In: 2.216+/-0.000 $\chi^2$/NDF:3557932521292963416

Out: -2.570+/-0.000 $\chi^2$/NDF:32659920465820368

All: -0.230+/-0.000 $\chi^2$/NDF: 6970426092784

# RTPAPOSUCNT_mean vs Slug, Sign Corrected




Right In: 939.446+/-0.000 $\chi^2$/NDF: 2108293385609278876355276867318998630 4.0/15

Left Out: 1146.011+/-0.000 $\chi^2$/NDF:22263468977632950665472901120.0/6

Right Out: -1178.513+/-0.000 $\chi^2$/NDF: 221402599581232775654811061148377415 68.0/18

Left In: -912.994+/-0.000 $\chi^2$/NDF:814332626806491110810478182 4.0/5

Left: 129.587+/-0.000 $\chi^2$/NDF: 1167793516264012

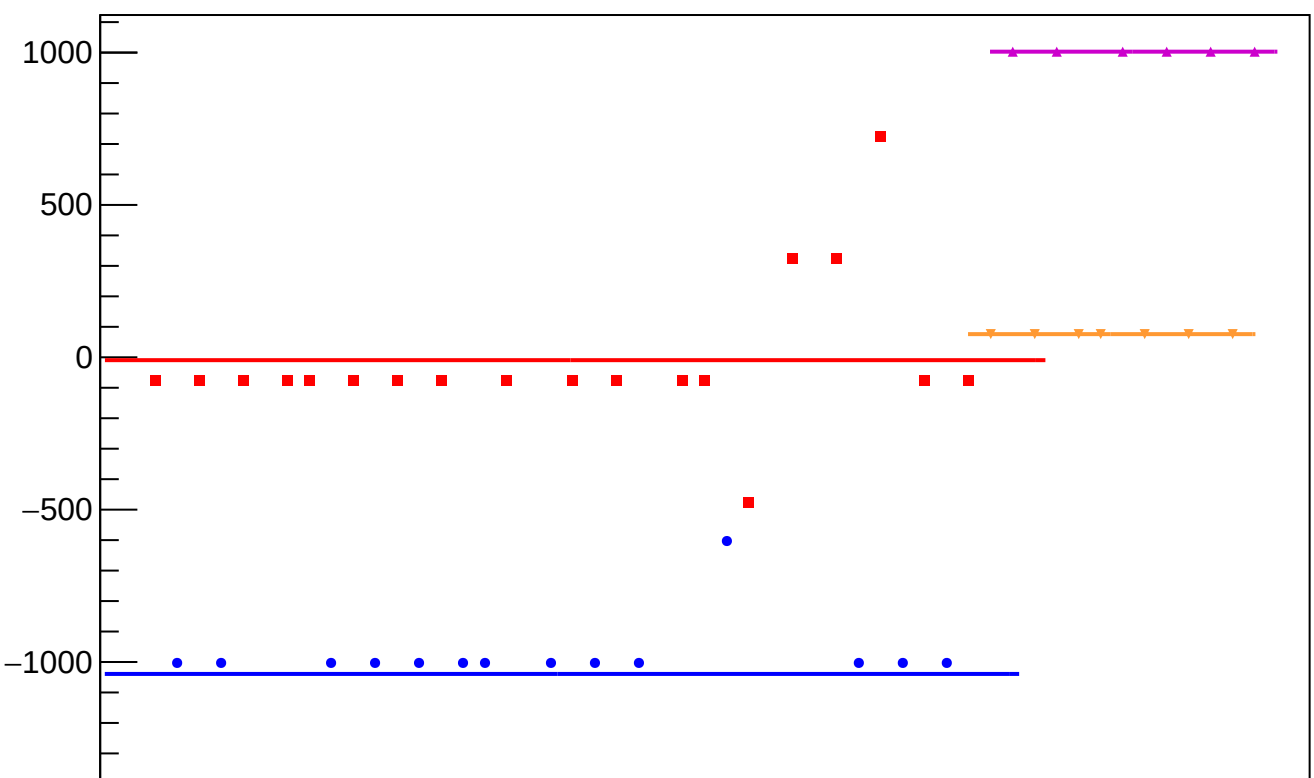
Right: -135.024+/-0.000 $\chi^2$/NDF: 17295046801044

In: 155.223+/-0.000 $\chi^2$/NDF:1097553534402758

Out: -196.617+/-0.000 $\chi^2$/NDF:176364200522998

All: -23.128+/-0.000 $\chi^2$/NDF: 294183018246

# RTPAPOSVCNT_mean vs Slug, Sign Corrected




Left: 533.612+/-0.000 $\chi^2$/NDF: 2366960475617289

Right In: -1039.157+/-0.000 $\chi^2$/NDF: 228703773085071640027081015550845911104.0/15

Right: -516.762+/-0.000 $\chi^2$/NDF: 46752928412988

Left Out: 76.011+/-0.000 $\chi^2$/NDF:26212047016634716695602135040.0/6

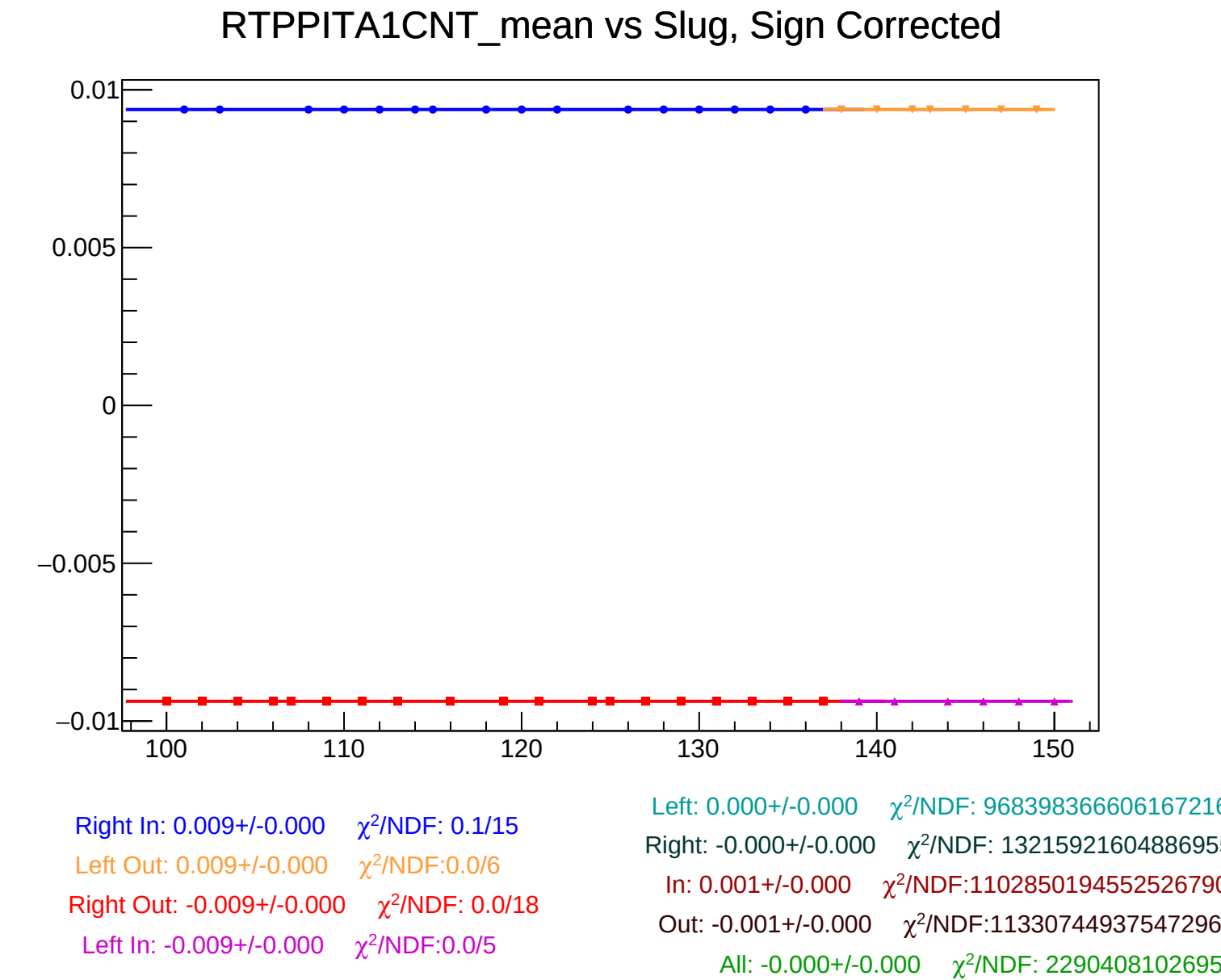
In: -174.622+/-0.000 $\chi^2$/NDF:1331110677398215

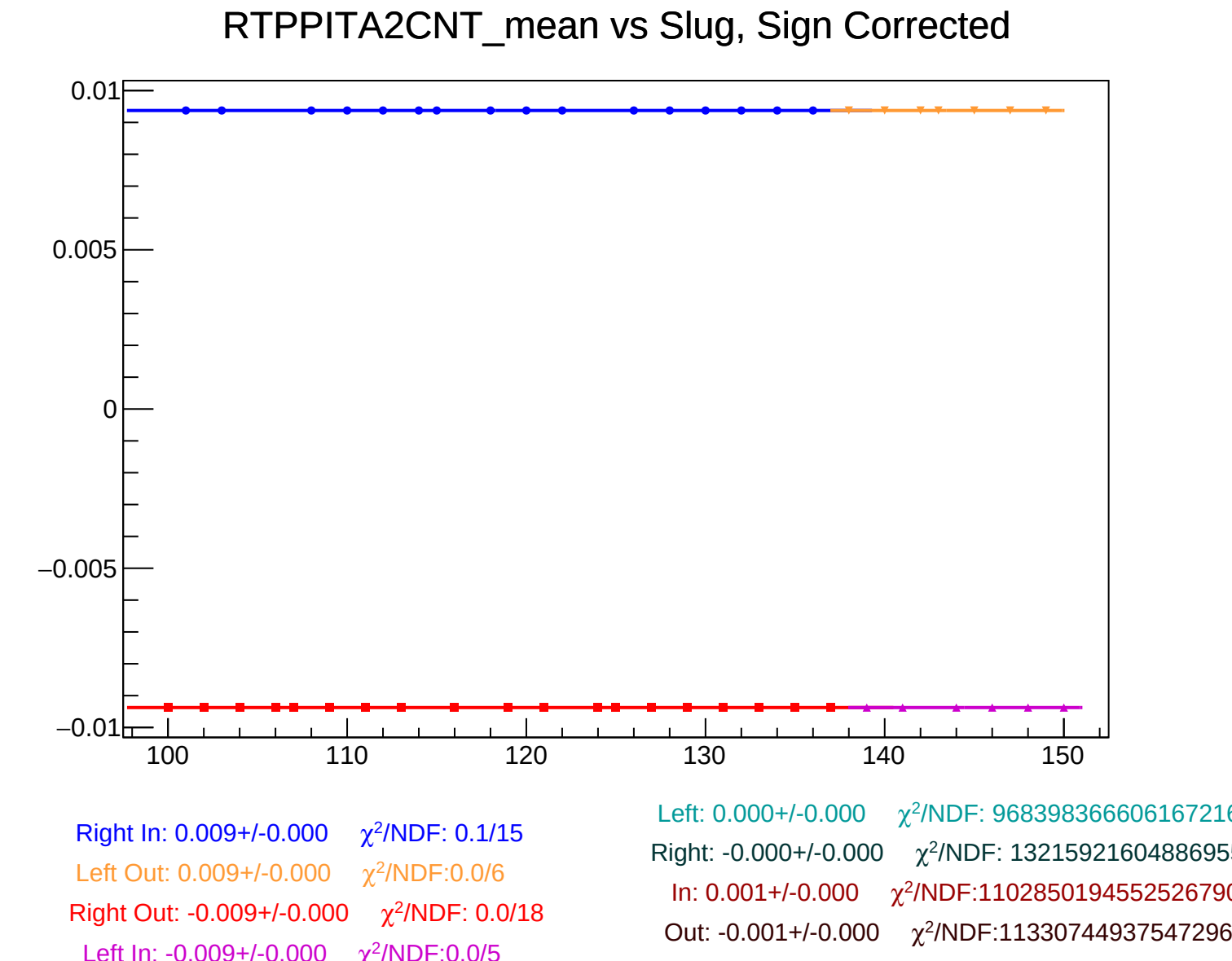
Right Out: -9.430+/-0.000 $\chi^2$/NDF: 460573947349287664748937365260515409920.0/18

Out: 26.661+/-0.000 $\chi^2$/NDF:48410182682216041

Left In: 1002.989+/-0.000 $\chi^2$/NDF:106720461638666289091602022 4.0/5

All: -72.590+/-0.000 $\chi^2$/NDF: 140591112238


RTPPITA1CNT_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
110
120
130
140
150
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/6
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/5
Left: 0.000+/-0.000 χ²/NDF: 968398366606167216
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.001+/-0.000 χ²/NDF:110285019455252679
Out: -0.001+/-0.000 χ²/NDF:11330744937547296
All: -0.000+/-0.000 χ²/NDF: 2290408102695


RTPPITA2CNT_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
110
120
130
140
150
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/6
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/5
Left: 0.000+/-0.000 χ²/NDF: 968398366606167216
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.001+/-0.000 χ²/NDF:110285019455252679
Out: -0.001+/-0.000 χ²/NDF:11330744937547296
All: -0.000+/-0.000 χ²/NDF: 2290408102695